	<b>TEST REPC</b>	ORT			
FCC ID	2AFW2-DW620				
Test Report No:	TCT230925E014		$(c^{(1)})$		
Date of issue:	Oct. 18, 2023				
Testing laboratory: :	SHENZHEN TONGCE TES	TING LAB	λ.		
Testing location/ address:	2101 & 2201, Zhenchang Fa Fuhai Subdistrict, Bao'an Di 518103, People's Republic	istrict, Shenzhen, Guar			
Applicant's name: :	Shenzhen DZH Industrial C	o., Ltd			
Address:	3th Floor, YiTuo Mike Industrial A building, Bu Yong Industrial D zone, ShaJing, Shenzhen, China				
Manufacturer's name :	Shenzhen DZH Industrial Co., Ltd				
Address:	3th Floor, YiTuo Mike Industrial A building, Bu Yong Industrial D zone, ShaJing, Shenzhen, China				
Standard(s) :	FCC CFR Title 47 Part 15 Subpart C Section 15.247 FCC KDB 558074 D01 15.247 Meas Guidance v05r02 ANSI C63.10:2013				
Product Name::	Bluetooth & 2.4GHz Wireles	ss Slim Mouse	X		
Trade Mark:	N/A				
Model/Type reference :	DW620				
Rating(s):	Battery DC 1.5V	$\langle \mathcal{C} \rangle$			
Date of receipt of test item	Sep. 25, 2023		-7.		
	Sep. 25, 2023 - Oct. 18, 202	23	5)		
Date (s) of performance of test:			A		
	Onnado YE	Onnado Kion	GCE		
test::		Onnado Room	CT ST		

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# TCT通测检测 1.General Product Information

# 1.1.EUT description

-						
Product Name:	Bluetooth	& 2.4GHz \	Vireless Slir	m Mouse		
Model/Type reference:	DW620					
Sample Number	TCT23092	25E014 -01	01			
Bluetooth Version:	V5.2					
Operation Frequency:	2402MHz-	-2480MHz				
Channel Separation:	2MHz			$(\mathbf{c}^{*})$		$(\mathbf{c})$
Data Rate:	LE 1M PH	Y				
Number of Channel:	40					
Modulation Type:	GFSK		K)		No.	
Antenna Type:	PCB Anter	nna				
Antenna Gain:	2.34dBi			$\langle \mathcal{C} \rangle$		$\langle \mathcal{C} \rangle$
Rating(s):	Battery DC	C 1.5V				

Note: The antenna gain listed in this report is provided by applicant, and the test laboratory is not responsible for this parameter.

### 1.2.Model(s) list

None.

### 1.3. Operation Frequency

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
0	2402MHz	10	2422MHz	20	2442MHz	30	2462MHz
1	2404MHz	11	2424MHz	21	2444MHz	31	2464MHz
8	2418MHz	18	2438MHz	28	2458MHz	38	2478MHz
<b>6</b> 9	2420MHz	19	2440MHz	29	2460MHz	39	2480MHz
Remark:	Channel 0, 1	9 & 39 ha	ave been tes	sted.	<u>_</u>		Q



Report No.: TCT230925E014

# 2.Test Result Summary

Requirement	CFR 47 Section	Result
Antenna requirement	§15.203/§15.247 (c)	PASS
AC Power Line Conducted Emission	§15.207	N/A
Conducted Peak Output Power	§15.247 (b)(3)	PASS
6dB Emission Bandwidth	§15.247 (a)(2)	PASS
Power Spectral Density	§15.247 (e)	PASS
Band Edge	§15.247(d)	PASS
Spurious Emission	§15.205/§15.209	PASS

### Note:

1. PASS: Test item meets the requirement.

2. Fail: Test item does not meet the requirement.

3. N/A: Test case does not apply to the test object.

4. The test result judgment is decided by the limit of test standard.

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# **3.General Information**

# 3.1. Test environment and mode

Operating Environment:		
Condition	Radiated Emission	
Temperature:	24.3 °C	
Humidity:	52 % RH	S)
Atmospheric Pressure:	1010 mbar	
Test Software:		
Software Information:	fcc_test_tool v2.2	6
Power Level:	Default	
Test Mode:		
Engineering mode:	Keep the EUT in continuous transmitting channel	by select

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

### 3.2. Description of 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.

Equipment	Model No.	Serial No.	FCC ID	Trade Name
Notebook Computer	G3 3500	00342-36088-99832 -AAOEM	E	DELL
Adapter	HA130PM190	CN-0CY0JM-CH200 -0B6-7405-A01	/	DELL

Note:

- 1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
- 2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

3. For conducted measurements (Output Power, 6dB Emission Bandwidth, Power Spectral Density, Spurious Emissions), the antenna of EUT is connected to the test equipment via temporary antenna connector, the antenna connector is soldered on the antenna port of EUT, and the temporary antenna connector is listed in the Test Instruments.



### 4.1.Facilities

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

• FCC - Registration No.: 645098

SHENZHEN TONGCE TESTING LAB

Designation Number: CN1205

The testing lab has been registered and fully described in a report with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files.

### IC - Registration No.: 10668A-1

SHENZHEN TONGCE TESTING LAB

CAB identifier: CN0031

The testing lab has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing.

### 4.2.Location

### SHENZHEN TONGCE TESTING LAB

Address: 2101 & 2201, Zhenchang Factory Renshan Industrial Zone, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, 518103, People's Republic of China TEL: +86-755-27673339

### 4.3. 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 %.

Conducted Emission RF power, conducted	± 3.10 dB
RF power, conducted	. 0.10 dP
	± 0.12 dB
Spurious emissions, conducted	± 0.11 dB
All emissions, radiated(<1 GHz)	± 4.56 dB
All emissions, radiated(1 GHz - 18 GHz)	🕙 ± 4.22 dB
All emissions, radiated(18 GHz- 40 GHz)	± 4.36 dB
	II emissions, radiated(<1 GHz) II emissions, radiated(1 GHz - 18 GHz)



# 5. Test Results and Measurement Data

### 5.1. Antenna requirement

# **Standard requirement:** FCC Part15 C Section 15.203 /247(c) 15.203 requirement: An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. 15.247(c) (1)(i) requirement: (i) Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi. **E.U.T** Antenna: The Bluetooth antenna is PCB antenna which permanently attached, and the best case gain of the antenna is 2.34dBi. Antenna

# 5.2.Conducted Emission

### 5.2.1. Test Specification

Test Requirement:	FCC Part15 C Section	15 207	R				
Test Method:	ANSI C63.10:2013						
Frequency Range:	150 kHz to 30 MHz						
Receiver setup:	RBW=9 kHz, VBW=30	RBW=9 kHz, VBW=30 kHz, Sweep time=auto					
	Frequency range	Limit (	dBuV)				
	(MHz)	Quasi-peak	Average				
Limits:	0.15-0.5	66 to 56*	56 to 46*				
	0.5-5	56	46				
	5-30	60	50				
	Referenc	e Plane					
Test Setup: Test Mode:	Image: stable decide						
	BT Link						
Test Procedure:	<ol> <li>The E.U.T is connected to an adapter through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment.</li> <li>The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs).</li> <li>Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10: 2013 on conducted measurement.</li> </ol>						

### **5.3.Conducted Output Power**

### 5.3.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (b)(3)
Test Method:	KDB 558074 D01 v05r02
Limit:	30dBm
Test Setup:	
Test Mode:	Spectrum Analyzer
Test mode.	
Test Procedure:	<ul> <li>Set spectrum analyzer as following:</li> <li>a) Set the RBW ≥ DTS bandwidth.</li> <li>b) Set VBW ≥ 3 × RBW.</li> <li>c) Set span ≥ 3 x RBW</li> <li>d) Sweep time = auto couple.</li> <li>e) Detector = peak.</li> <li>f) Trace mode = max hold.</li> <li>g) Allow trace to fully stabilize.</li> <li>h) Use peak marker function to determine the peak amplitude level.</li> </ul>
Test Result:	PASS

### 5.3.2. Test Instruments

Name	Manufacturer	Model No.	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	N9020A	MY49100619	Jun. 28, 2024
Combiner Box	Ascentest	AT890-RFB	/	/



### 5.4. Emission Bandwidth

### 5.4.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (a)(2)	
Test Method:	KDB 558074 D01 v05r02	
Limit:	>500kHz	$\langle \mathcal{O} \rangle$
Test Setup:	Spectrum Analyzer	
Test Mode:	Refer to item 3.1	
Test Procedure:	<ol> <li>Set to the maximum power setting EUT transmit continuously.</li> <li>Make the measurement with the s resolution bandwidth (RBW) = 10 Video bandwidth (VBW) = 300 kH an accurate measurement. The 6 be greater than 500 kHz.</li> <li>Measure and record the results in</li> </ol>	pectrum analyzer's 0 kHz. Set the Iz. In order to make dB bandwidth must
Test Result:	PASS	$(\mathbf{c})$

### 5.4.2. Test Instruments

Name	Manufacturer	Model No.	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	N9020A	MY49100619	Jun. 28, 2024
Combiner Box	Ascentest	AT890-RFB	9 1	



### **5.5. Power Spectral Density**

### 5.5.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (e)
Test Method:	KDB 558074 D01 v05r02
Limit:	The peak power spectral density shall not be greater than 8dBm in any 3kHz band at any time interval of continuous transmission.
Test Setup:	
	Spectrum Analyzer EUT
Test Mode:	Refer to item 3.1
Test Procedure:	<ol> <li>The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.</li> <li>Set to the maximum power setting and enable the EUT transmit continuously.</li> <li>Make the measurement with the spectrum analyzer's resolution bandwidth (RBW): 3 kHz ≤ RBW ≤ 100 kHz. Video bandwidth VBW ≥ 3 x RBW. In order to make an accurate measurement, set the span to 1.5 times DTS Channel Bandwidth. (6dB BW)</li> <li>Detector = peak, Sweep time = auto couple, Trace mode = max hold, Allow trace to fully stabilize. Use the peak marker function to determine the maximum power level.</li> <li>Measure and record the results in the test report.</li> </ol>
Test Result:	PASS

### 5.5.2. Test Instruments

Name	Manufacturer	Model No.	Serial Number	<b>Calibration Due</b>
Spectrum Analyzer	Agilent	N9020A	MY49100619	Jun. 28, 2024
Combiner Box	Ascentest	AT890-RFB	/	/

# 5.6. Conducted Band Edge and Spurious Emission Measurement

### 5.6.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (d)
Test Method:	KDB 558074 D01 v05r02
Limit:	In any 100 kHz bandwidth outside of the authorized frequency band, the emissions which fall in the non-restricted bands shall be attenuated at least 20 dB / 30dB relative to the maximum PSD level in 100 kHz by RF conducted measurement and radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a).
Test Setup:	
	Spectrum Analyzer EUT
Test Mode:	Refer to item 3.1
	<ol> <li>The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.</li> <li>Set to the maximum power setting and enable the EUT transmit continuously.</li> </ol>
Test Procedure:	<ol> <li>Set RBW = 100 kHz, VBW=300 kHz, Peak Detector. Unwanted Emissions measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz when maximum peak conducted output power procedure is used. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB per 15.247(d).</li> <li>Measure and record the results in the test report.</li> <li>The RF fundamental frequency should be excluded against the limit line in the operating frequency band.</li> </ol>

ectrum nalyzer	Agil	ent	N9020A	MY4	9100619	Jun. 28,	2024
biner Box	Asce	ntest	AT890-RFB		1	1	
Ś		Ś					

Model No.

Manufacturer

5.6.2. Test Instruments

Name

Serial Number Calibration Due

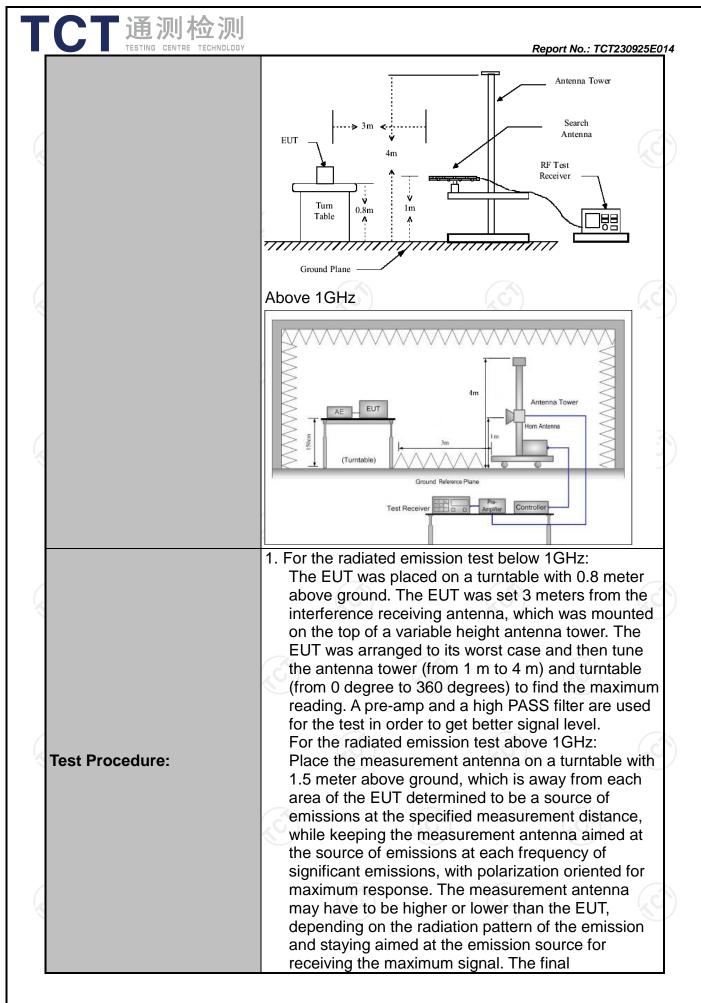
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# 5.7. Radiated Spurious Emission Measurement

### 5.7.1. Test Specification

TCT 通测检测 TESTING CENTRE TECHNOLOGY

Test Requirement:	FCC Part15	C Section	15.209			
Test Method:	ANSI C63.10	): 2013				
Frequency Range:	9 kHz to 25 (	GHz	Z		C	6
Measurement Distance:	3 m	×	$\mathbf{\mathcal{I}}$		R	$\mathcal{I}$
Antenna Polarization:	Horizontal &	Vertical				
Operation mode:	Refer to item	n 3.1	(	<u>()</u>		
	Frequency 9kHz- 150kHz	Detector Quasi-peak	RBW 200Hz	VBW 1kHz		Remark si-peak Value
Receiver Setup:	150kHz- 30MHz	Quasi-peak		30kHz	Quas	si-peak Value
·	30MHz-1GHz	Quasi-peak		300KHz		si-peak Value
	Above 1GHz	Peak	1MHz	3MHz		eak Value
		Peak	1MHz	10Hz	Ave	erage Value
	Frequen	ісу	Field Stro (microvolts	-		asurement nce (meters)
	0.009-0.4		2400/F(I	,	300	
	0.490-1.7		24000/F(KHz)		30	
	1.705-30 30-88		30 100		30	
_imit:	88-216		150		1	3
	216-960		200			3
	Above 9	60	500			3
	Frequency Above 1GH:	(micro	d Strength volts/meter) 500 5000	Measurer Distand (meter 3 3	се	Detector Average Peak
Test setup:	For radiated	emissions stance = 3m Turn table		Pre -A	Comput	



TESTING CENTRE TECHNOL	<ul> <li>Report No.: TCT230925E</li> <li>measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.</li> <li>Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level</li> <li>For measurement below 1GHz, If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.</li> <li>Use the following spectrum analyzer settings: <ul> <li>Set RBW=120 kHz for f &lt; 1 GHz; VBW ≥ RBW; Sweep = auto; Detector function = peak; Trace = max hold;</li> <li>Set RBW = 1 MHz, VBW= 3MHz for f &gt;1 GHz for peak measurement.</li> <li>For average measurement: VBW = 10 Hz, when duty cycle is no less than 98 percent where T is</li> </ul> </li> </ul>
Test mode:	the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation. Refer to section 3.1 for details
Test results:	PASS

### 5.7.2. Test Instruments

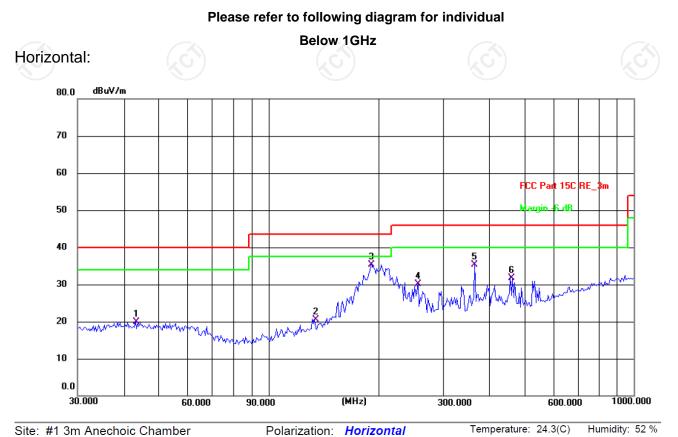
TCT通测检测 TESTING CENTRE TECHNOLOGY

	Radiated En	nission Test Site	e (966)	
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
EMI Test Receiver	R&S	ESIB7	100197	Jun. 29, 2024
Spectrum Analyzer	R&S	FSQ40	200061	Jun. 29, 2024
Pre-amplifier	SKET	LNPA_0118G- 45	SK2021012 102	Feb. 20, 2024
Pre-amplifier	SKET	LNPA_1840G- 50	SK2021092 03500	Feb. 20, 2024
Pre-amplifier	HP	8447D	2727A05017	Jun. 27, 2024
Loop antenna	Schwarzbeck	FMZB1519B	00191	Jul. 02, 2024
Broadband Antenna	Schwarzbeck	VULB9163	340	Jul. 01, 2024
Horn Antenna	Schwarzbeck	BBHA 9120D	631	Jul. 01, 2024
Horn Antenna	Schwarzbeck	BBHA 9170	00956	Feb. 24, 2024
Antenna Mast	Keleto	RE-AM		
Coaxial cable	SKET	RC-18G-N-M	1	Feb. 24, 2024
Coaxial cable	SKET	RC_40G-K-M	1	Feb. 24, 2024
EMI Test Software	Shurple Technology	EZ-EMC		1

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### 5.7.3. Test Data



Limit: FCC Part 15C RE\_3m

Power: DC 1.5 V

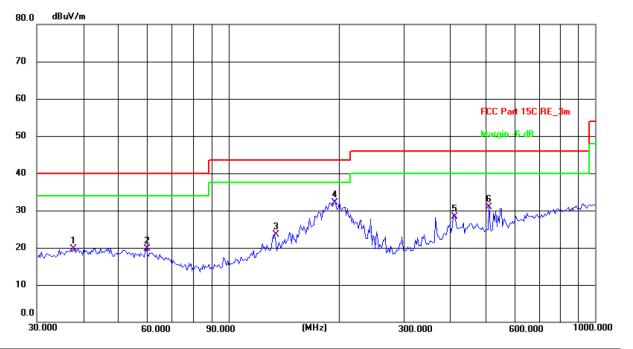
Report No.: TCT230925E014

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	43.2016	6.02	13.84	19.86	40.00	-20.14	QP	Ρ	
2	133.6188	7.12	13.39	20.51	43.50	-22.99	QP	Ρ	
3 *	191.0738	24.40	10.82	35.22	43.50	-8.28	QP	Ρ	
4	256.5210	17.55	12.57	30.12	46.00	-15.88	QP	Ρ	
5	366.8231	19.74	15.57	35.31	46.00	-10.69	QP	Ρ	
6	459.1144	13.86	17.82	31.68	46.00	-14.32	QP	Ρ	

 Image: Second second

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### Vertical:



Site: #1 3m Anechoic ChamberPolarization:VerticalTemperature: 24.3(C)Humidity: 52 %

Power: DC 1.5 V

Limit: FCC Part 15C RE\_3m

Frequency Reading Factor Level Limit Margin Detector P/F Remark No. (MHz) (dBuV) (dB/m) (dBuV/m) (dBuV/m) (dB) 37.8121 5.75 13.90 19.65 40.00 -20.35 QP Ρ 1 2 59.6493 6.63 12.98 19.61 40.00 -20.39 QP Ρ 3 133.6188 10.19 13.39 23.58 43.50 -19.92 QP Ρ 4 195.1363 21.63 10.44 32.07 43.50 -11.43 QP Ρ \* 5 413.2706 11.55 16.70 28.25 46.00 -17.75 QP Ρ 6 513.6331 12.23 18.58 30.81 46.00 -15.19 QP Ρ

**Note:** 1. The low frequency, which started from 9KHz~30MHz, was pre-scanned and the result which was 20dB lower than the limit line per 15.31(o) was not reported

2. Measurements were conducted in all three channels (high, middle, low), and the worst case Mode (Highest channel) was submitted only.

3. Freq. = Emission frequency in MHz

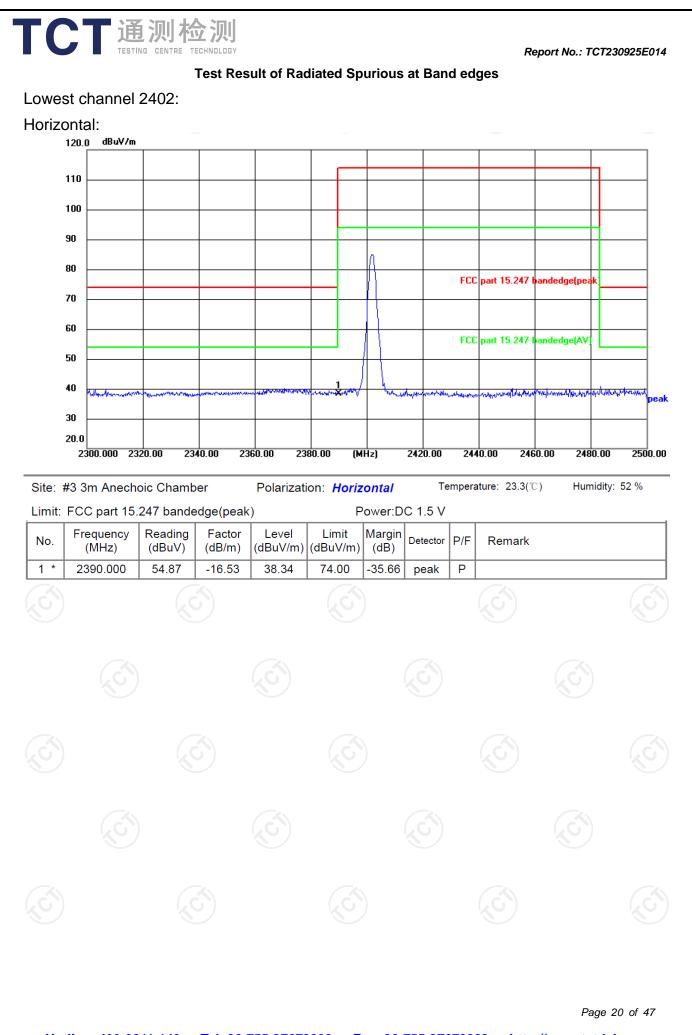
Measurement  $(dB\mu V/m) = Reading level (dB\mu V) + Corr. Factor (dB)$ Correction Factor= Antenna Factor + Cable loss – Pre-amplifier Limit (dB $\mu$ V/m) = Limit stated in standard Margin (dB) = Measurement (dB $\mu$ V/m) – Limits (dB $\mu$ V/m)

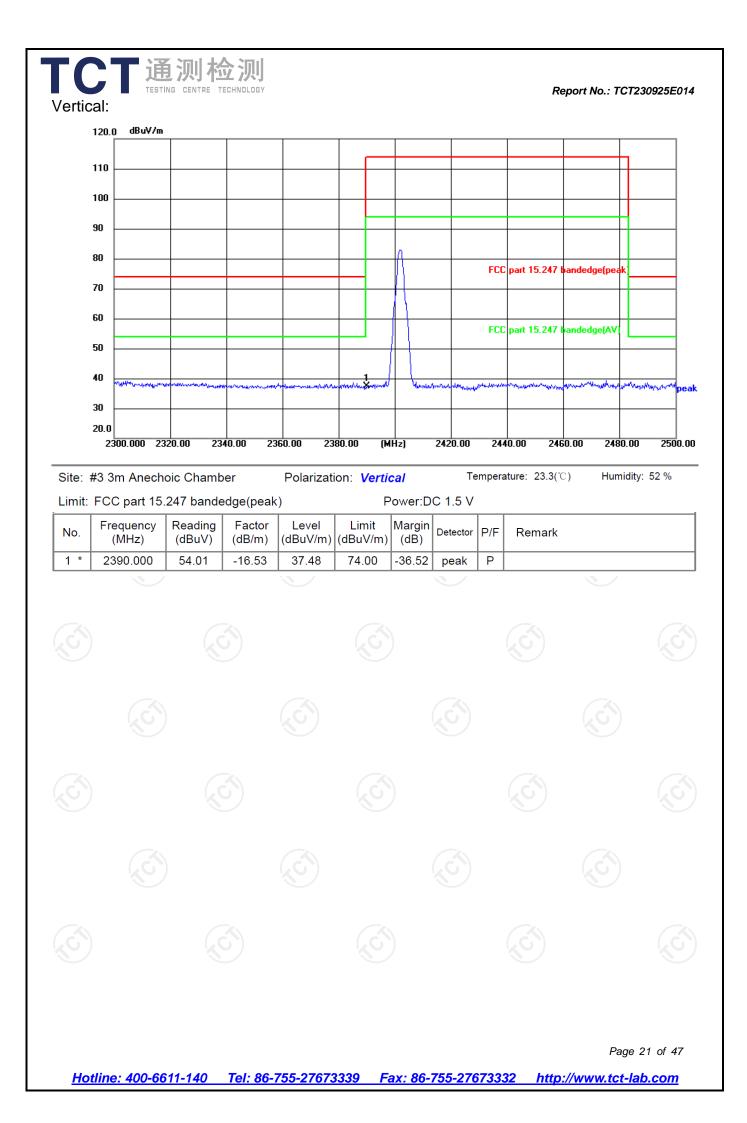
Any value more than 10dB below limit have not been specifically reported

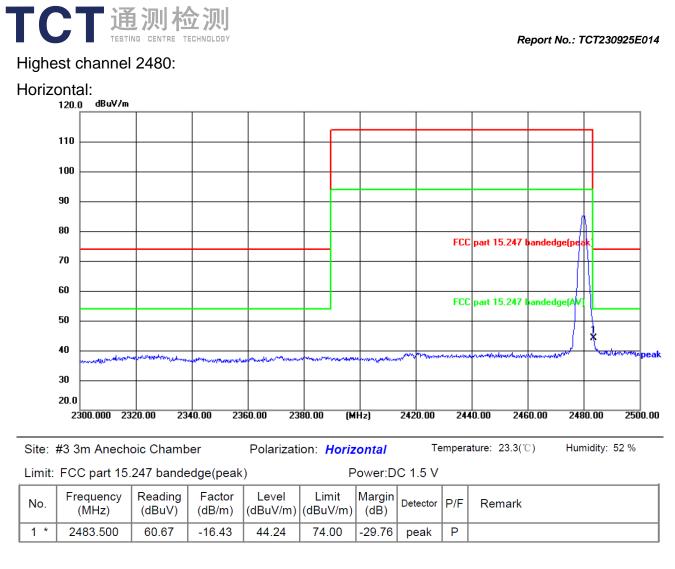
\* is meaning the worst frequency has been tested in the test frequency range

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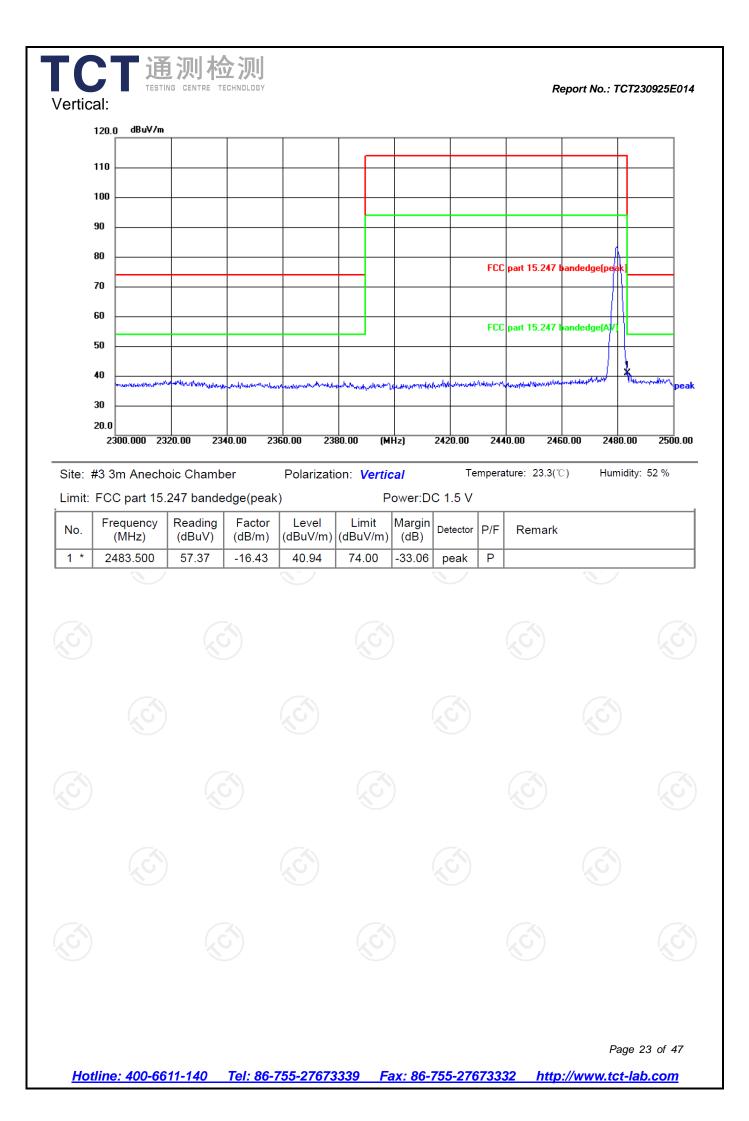








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### Above 1GHz

Low channe	el: 2402 M	lHz						
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBuV)	Correction Factor (dB/m)	Peak	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
4804	Н	44.14		0.66	44.80	 74	54	-9.20
7206	Н	33.27		9.50	42.77	 74	54	-11.23
	Н					 		
4804	V	45.20		0.66	45.86	 74	54	-8.14
7206	V	33.37		9.50	42.87	74	54	-11.13
	V							

### Middle channel: 2440 MHz

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Frequency		Peak reading	AV reading	Correction Factor	Emissic Peak		Peak limit		Margin
(MHz)	H/V	(dBµV)	(dBµV)	(dB/m)		(dBµV/m)	(dBµV/m)	(dBµV/m)	(dB)
4880	Н	42.14		0.99	43.13		74	54	-10.87
7320	Н	31.36		9.87	41.23		74	54	-12.77
	H			<b></b>	(				
			K.						
4880	V	42.29	)	0.99	43.28		74	54	-10.72
7320	V	33.46		9.87	43.33		74	54	-10.67
	V				·				

### High channel: 2480 MHz

Frequency	Ant Pol	Peak		Correction	Emissio	on Level	Peak limit	AV limit	Margin
(MHz)	H/V	reading (dBµV)	reading (dBµV)	Factor (dB/m)	Peak (dBµV/m)	AV		(dBµV/m)	(dB)
4960	Н	42.13		1.33	43.46	<u> </u>	74	54	-10.54
7440	H	34.59		10.22	44.81	<u> </u>	74	54	-9.19
	Н								
4960	V	44.15		1.33	45.48		74	54	-8.52
7440	V	35.08		10.22	45.30		74	54	-8.70
	V				/				

### Note:

1. Emission Level=Peak Reading + Correction Factor; Correction Factor= Antenna Factor + Cable loss - Pre-amplifier

2. Margin (dB) = Emission Level (Peak) (dB $\mu$ V/m)-Average limit (dB $\mu$ V/m)

3. The emission levels of other frequencies are very lower than the limit and not show in test report.

4. Measurements were conducted from 1 GHz to the 10th harmonic of highest fundamental frequency.

5. Data of measurement shown "---"in the above table mean that the reading of emissions is attenuated more than 20 dB below the limits or the field strength is too small to be measured.

6. All the restriction bands are compliance with the limit of 15.209.



### **Appendix A: Test Result of Conducted Test**

(	Maximum Conducted Output Power								
Condition	Mode	Frequency (MHz)	Conducted Power (dBm)	Limit (dBm)	Verdict				
NVNT	BLE 1M	2402	-7.41	30	Pass				
NVNT	BLE 1M	2440	-6.89	30	Pass				
NVNT	BLE 1M	2480	-6.15	30	Pass				
	6)	K	)						



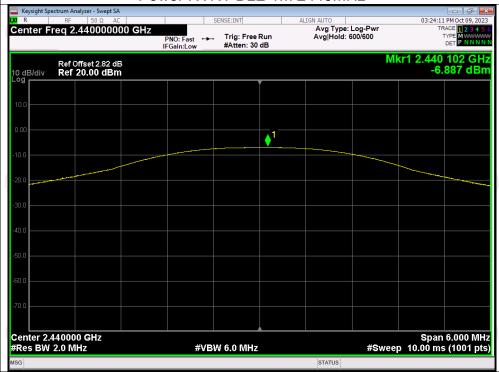


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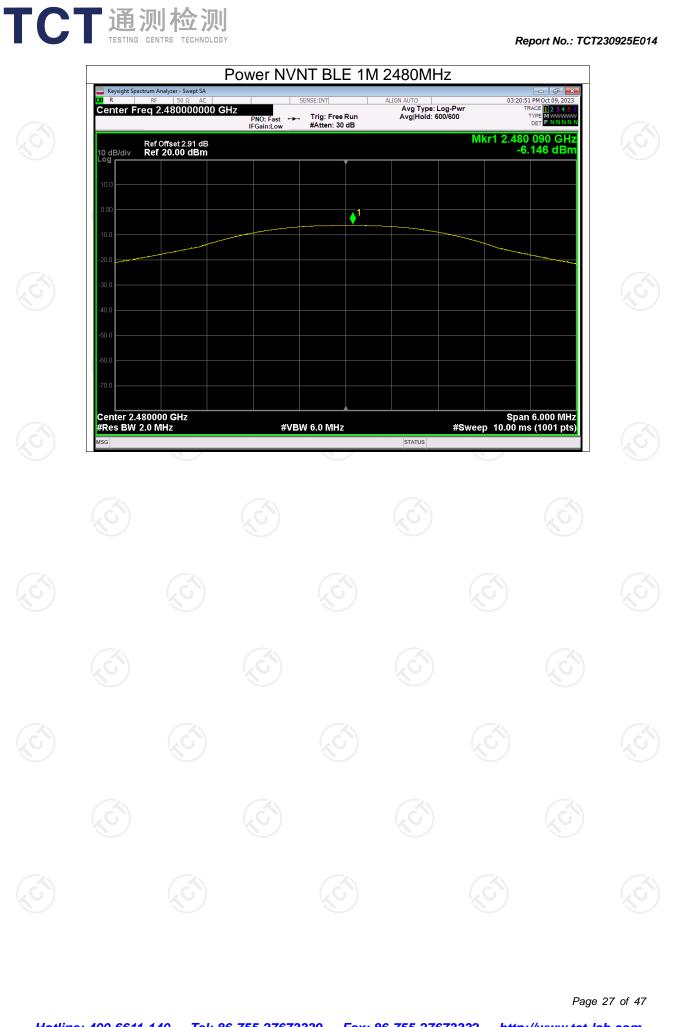
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10 dB/div

MSG

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Condition	Mode	Frequency (MHz)	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	BLE 1M	2402	0.715	0.5	Pass
NVNT	BLE 1M	2440	0.713	0.5	Pass
NVNT	BLE 1M	2480	0.708	0.5	Pass

### -6dB Bandwidth

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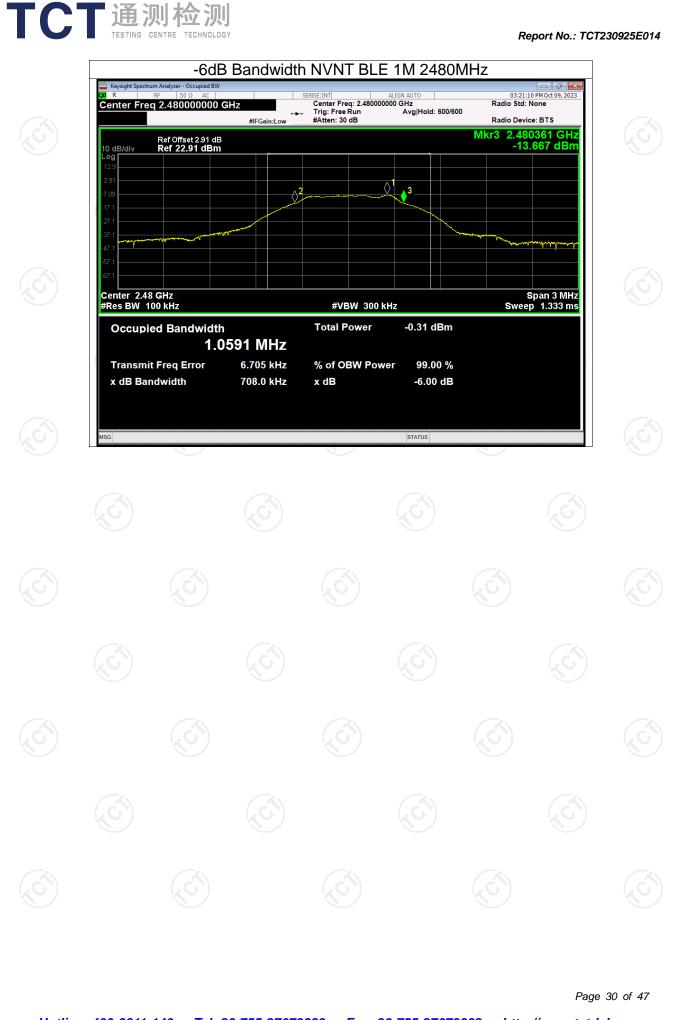
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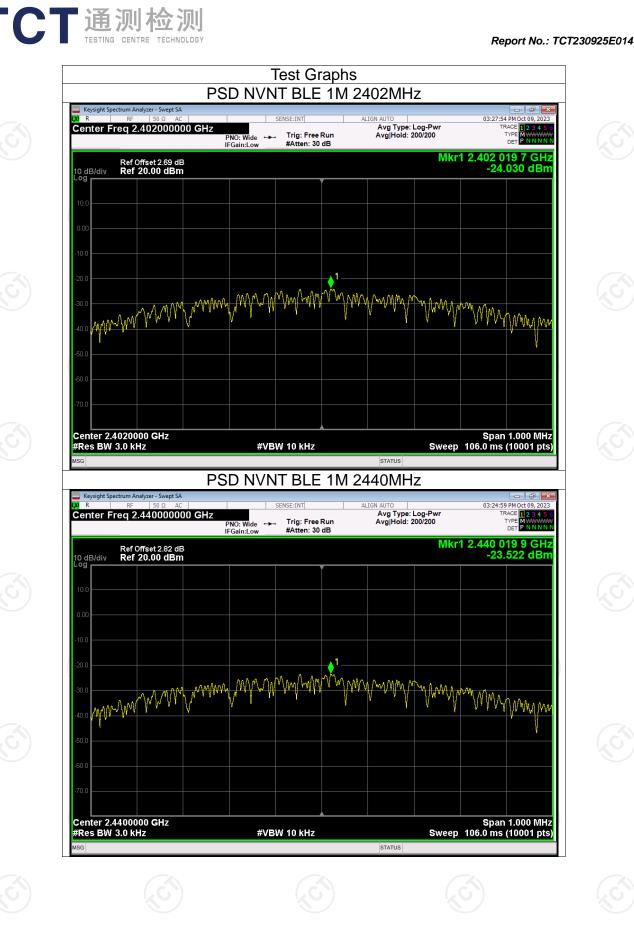


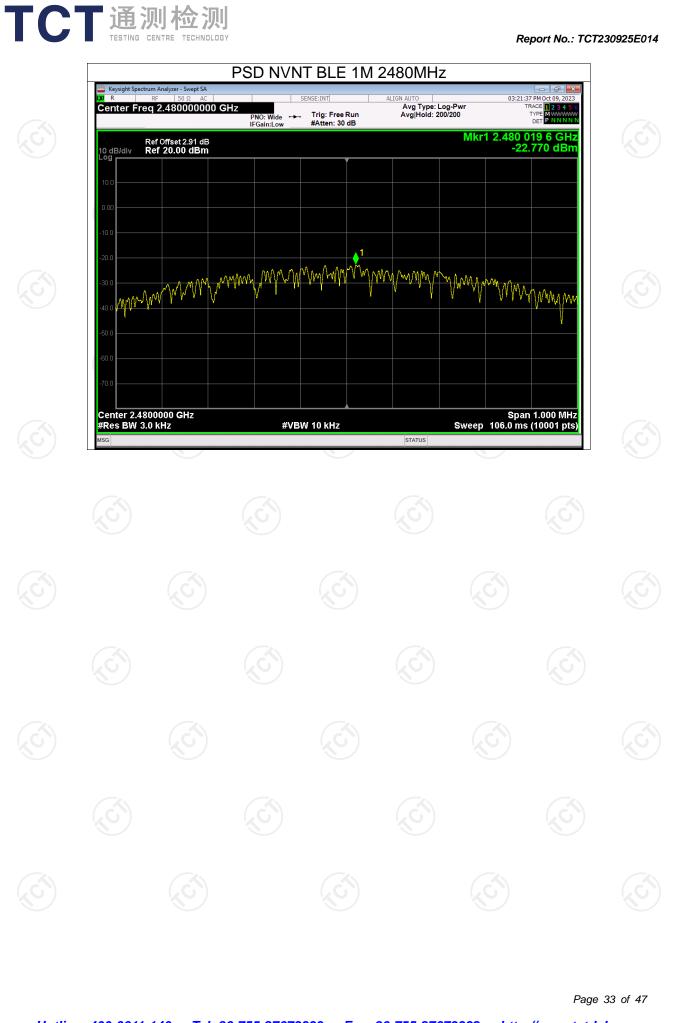
Condition	Mode	Frequency (MHz)	Conducted PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	BLE 1M	2402	-24.03	8	Pass
NVNT	BLE 1M	2440	-23.52	8	Pass
NVNT	BLE 1M	2480	-22.77	8	Pass

ТСТ	通测检测
	TESTING CENTRE TECHNOLOGY

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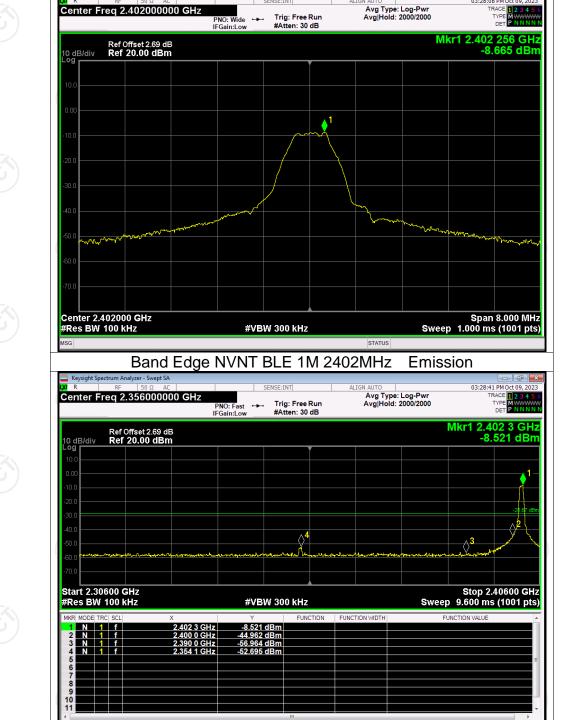




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ГСТ	通测检测 TESTING CENTRE TECHNOLO	<b>J</b> GY		Report No.: TC	T230925E014
			Edge		
Condition NVNT	Mode Free BLE 1M	equency (MHz) 2402	Max Value (dBc) -44.03	Limit (dBc) -20	Verdict Pass
NVNT	BLE 1M	2480	-42.56	-20	Pass
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Test Graphs

Band Edge NVNT BLE 1M 2402MHz

Keysight Spectrum Analyzer - Swept S

Center Freq 2.402000000 GHz

### Report No.: TCT230925E014

03:28:08 PM Oct 09, 2023

Ref

Avg Type: Log-Pwr Avg|Hold: 2000/2000

# Band Edge NVNT BLE 1M 2480MHz Ref

STATUS

Keysight Sp X/R

10 dB/div Log

Center Freq 2.480000000 GHz

Ref Offset 2.91 dB Ref 20.00 dBm

### Band Edge NVNT BLE 1M 2480MHz Emission

Keysight Spectrum Analyzer - Swept S.           R         RF         50 Ω         A           Center Freq 2.5260000	ac DOO GHz	SENSE:IM	NT g: Free Run	ALIGN AUTO Avg Type Avg Hold:		TR	PM Oct 09, 2023 ACE 1 2 3 4 5 6 TYPE M WWWW
	PNO: IFGai		g: Free Run tten: 30 dB	Avginoiu.			DET P NNNN
Ref Offset 2.91 c 10 dB/div Ref 20.00 dBr Log					IV		0 26 GHz 274 dBm
10.0							
-10.0							
-20.0							-27.52 dBm
-30.0	ر کی ا						
-50.0	<u>3</u>	Aurton bill offerte standard at 100 pt of 100 at		n strate and section of the strategy	ومعرفه المترجع	the standing of the stand of the	tradition to conference in
-60.0							
Start 2.47600 GHz						Stop 2.	57600 GHz
#Res BW 100 kHz		#VBW 300				10.00 ms (	10001 pts)
MKR MODE TRC SCL	× 2.480 26 GHz	Y -7.274 dBm	FUNCTION	FUNCTION WIDTH	FL	JNCTION VALUE	^
2 N 1 f	2.483 50 GHz 2.500 00 GHz	-50.089 dBm -59.067 dBm					
4 N 1 f	2.483 50 GHz	-59.067 dBm -50.089 dBm					
5 6							
7	<b></b>			و وروا الم			
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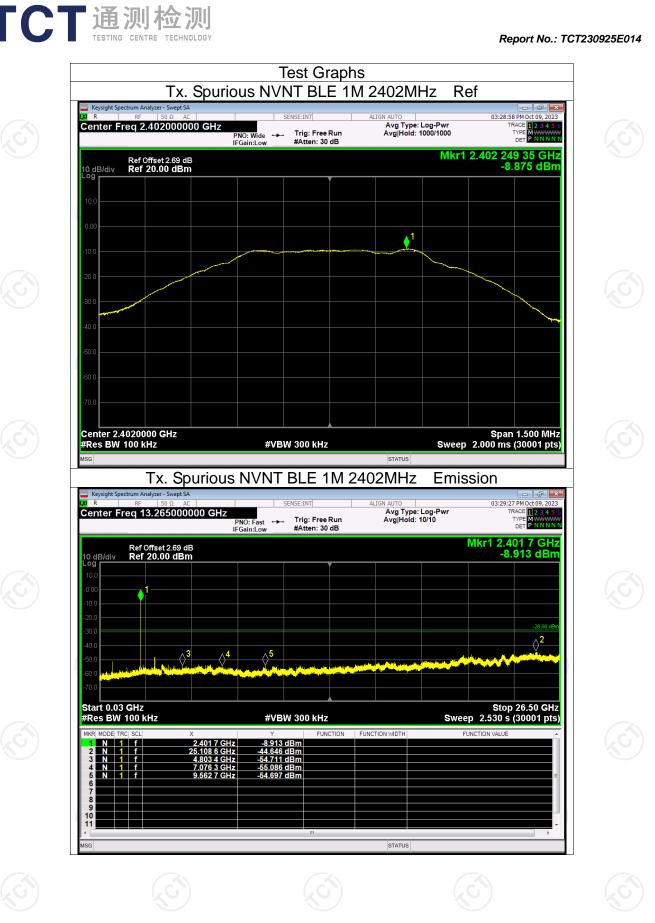


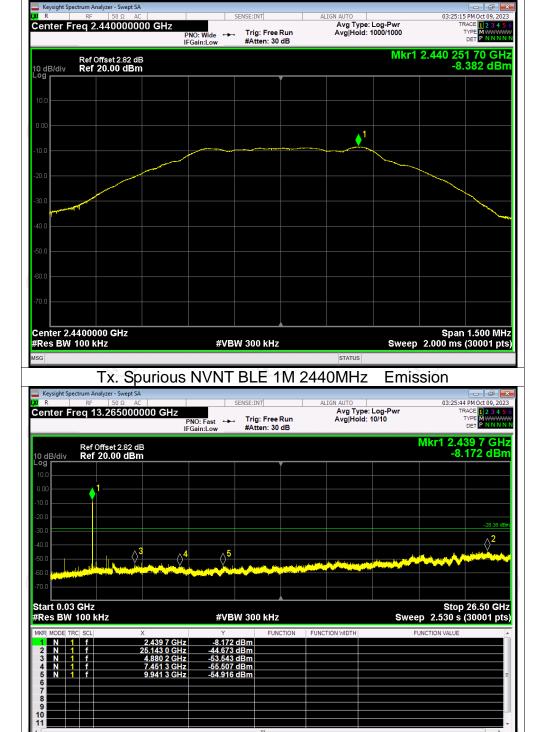
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		金测 TECHNOLOGY Cond		RF Spurio	ous Emis		Report No.: TC	1230323201
Condition	Mode	Free	quency (N	IHz) Ma	x Value (dl	Bc) Lin	nit (dBc)	Verdict
NVNT NVNT	BLE 1M BLE 1M		2402 2440		-35.77 -36.29		-20 -20	Pass Pass
NVNT	BLE 1M		2480		-36.23	P	-20	Pass





Tx. Spurious NVNT BLE 1M 2440MHz



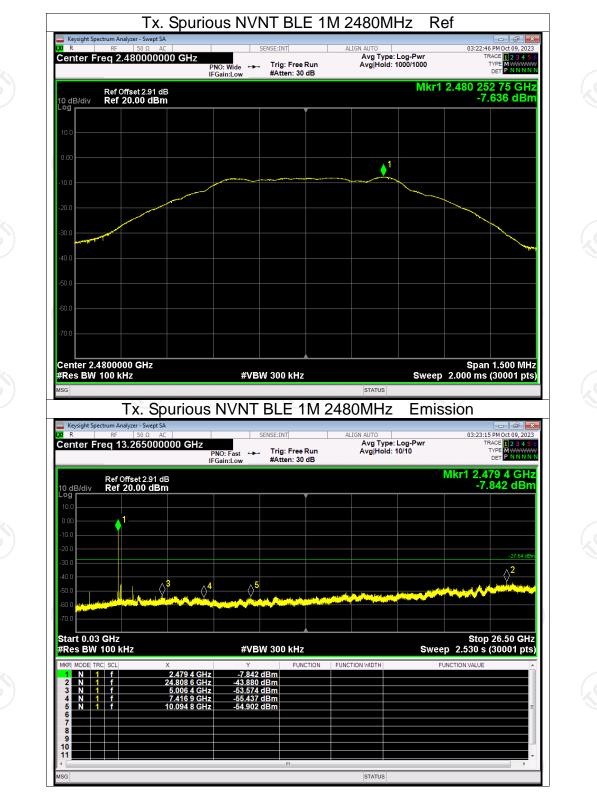


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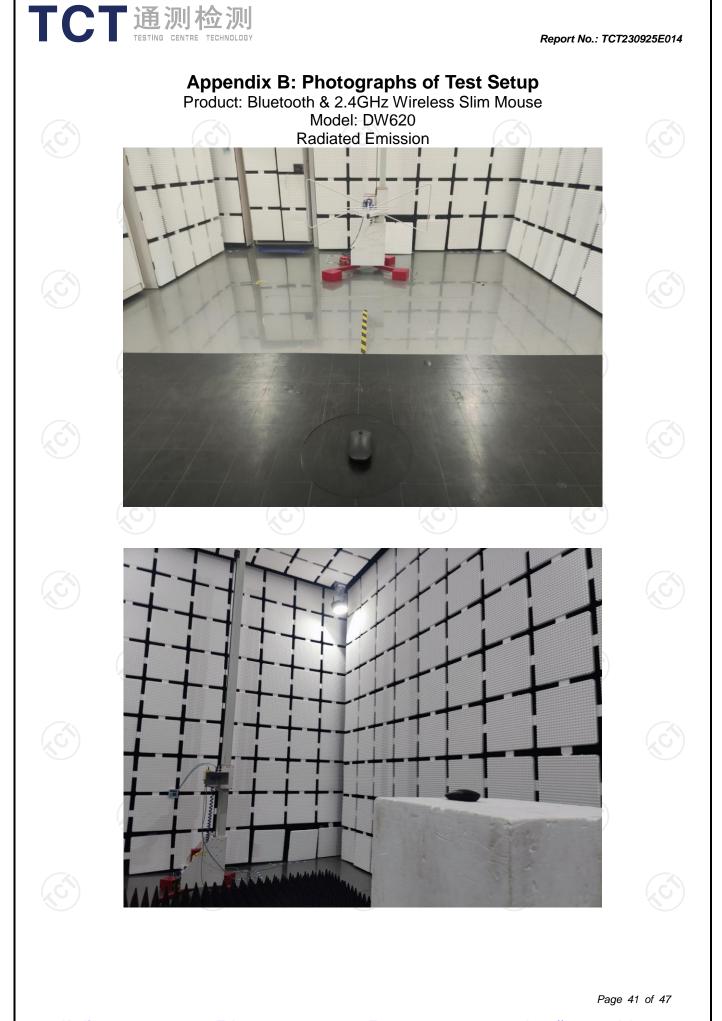




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