TEST REPORT

FCC ID :	2BN8F-VDP50			
Test Report No::	TCT250314E010	(\mathcal{C})	(
Date of issue:	Mar. 19, 2025			
Testing laboratory::	SHENZHEN TONGCE TES	TING LAB		
Testing location/ address:	2101 & 2201, Zhenchang F Fuhai Subdistrict, Bao'an D 518103, People's Republic	istrict, Shenzhen, C		Э,
Applicant's name::	NUMLAKE TECH LIMITED	(\mathcal{C})	(
Address:	UNIT 1505, 15/F WORKING HAU FOOK STREET TSIM			
Manufacturer's name :	NUMLAKE TECH LIMITED	3	$\langle \mathcal{C} \rangle$	
Address:	UNIT 1505, 15/F WORKING HAU FOOK STREET TSIM			
Standard(s):	FCC CFR Title 47 Part 15 S FCC KDB 558074 D01 15.2 ANSI C63.10:2020	•		S
Product Name::	Smart Wi-Fi Doorbell Came	ra		
Trade Mark:	N/A	<u>(</u> G)	$\langle \mathcal{G} \rangle$	
Model/Type reference :	P50, P10, P20, P30, T10, T U20, U30, U50, M10, M20,		, N30, N50, I	J10,
Rating(s):	Rechargeable Li-ion Battery	/ DC 3.7V	(
Date of receipt of test item	Mar. 14, 2025			
Date (s) of performance of test:	Mar. 14, 2025 ~ Mar. 19, 20	025		
Tested by (+signature) :	Ronaldo LUO	R-nald K	M9CE TR	
Check by (+signature) :	Beryl ZHAO	Bayl 20	ICT)	
Approved by (+signature):	Tomsin	Tomsites	841	
General disclaimer: This report shall not be repro TONGCE TESTING LAB. Th TESTING LAB personnel on test results in the report only	his document may be altered ly, and shall be noted in the	l or revised by SH	ENZHEN TC	NGCI

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1. General Product Information

1.1. EUT description

Product Name:	Smart Wi-Fi Doorbell Camera			
Model/Type reference:	P50	S C		S)
Sample Number	TCT250314E010-0101			
Bluetooth Version:	V5.0		$\langle \mathcal{O} \rangle$	
Operation Frequency:	2402MHz~2480MHz			
Channel Separation:	2MHz	(\mathbf{c}^{*})		(\mathbf{c}^{*})
Data Rate:	LE 1M PHY, LE 2M PHY			
Number of Channel:	40			
Modulation Type:	GFSK			
Antenna Type:	Internal Antenna			
Antenna Gain:	1.65dBi			
Rating(s):	Rechargeable Li-ion Battery DC	3.7V		

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

No.	Model No.	Tested with				
1	P50	\boxtimes				
Other models	P10, P20, P30, T10, T20, T30, N10, N20, N30, N50, U10, U20, U30, U50, M10, M20, M30, M60					
	Note: P50 is tested model, other models are derivative models. The models are identical in circuit and PCB layout, only different on the model names. So the test data of P50 can represent the remaining models.					

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
		(<u> </u>	(.ć	····		
8	2418MHz	18	2438MHz	28	2458MHz	38	2478MHz
9	2420MHz	19	2440MHz	29	2460MHz	39	2480MHz
Remark: Channel 0, 19 & 39 have been tested.							

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2. Test Result Summary

Requirement	CFR 47 Section	Result
Antenna requirement	§15.203/§15.247 (c)	PASS
AC Power Line Conducted Emission	§15.207	PASS
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

Condition	Conducted Emission	Radiated Emission
Temperature:	24.8 °C	22.7 °C
Humidity:	54 % RH	57 % RH
Atmospheric Pressure:	1010 mbar	1010 mbar
est Software:		
Software Information:	ETF GUI Tool(Version:1.3	3.3d)
Power Level:	6	
est Mode:		

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
Adapter	EP-TA200	R37M4PR7QD4SE3		SAMSUNG

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. Facilities and Accreditations

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
- SHENZHEN TONGCE TESTING LAB
- CAB identifier: CN0031

The testing lab has been registered by Innovation, Science and Economic Development 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 %.

No.	Item	MU
1	Conducted Emission	± 3.10 dB
2	RF power, conducted	± 0.12 dB
3	Spurious emissions, conducted	± 0.11 dB
4	All emissions, radiated(<1 GHz)	± 4.56 dB
5	All emissions, radiated(1 GHz - 18 GHz)	± 4.22 dB
6	All emissions, radiated(18 GHz- 40 GHz)	± 4.36 dB



5. Test Results and Measurement Data

5.1. Antenna requirement



15.203 requirement:

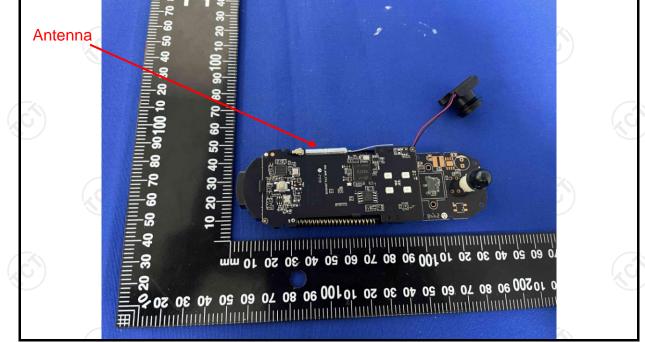
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit 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 internal antenna which permanently attached, and the best case gain of the antenna is 1.65dBi.



5.2. Conducted Emission

5.2.1. Test Specification

 Test Procedure: Test Procedure: a LISN that provides a 500hm/50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the map ower through a LISN that provides a 500hm/50u coupling impedance with 500hm termination. (Please refer to the block diagram of the test setup at photographs). 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 the interface cables must be changed according ANSI C63.10:2020 on conducted measurement. 	Test Requirement:	FCC Part15 C Section	15.207	
Receiver setup: RBW=9 kHz, VBW=30 kHz, Sweep time=auto Frequency range Limit (dBuV) Quasi-peak Average 0.15-0.5 66 to 56* 56 to 46 0.5-5 56 46 5-30 60 50 Reference Plane Filter Filter Ac power Filter Ac power Filter Formax: Formax: EM Filter Ac power Filter Test table/Insulation plane EM EM Receiver EM Fast Mode: Charging + Transmitting Mode 1. The E.U.T is connected to an adapter through a linimpedance Stabilization network (L.I.S.N.). The provides a 500hm/50uH coupling impedance for the measuring equipment. 2. The peripheral devices are also connected to the map over through a LISN that provides a 500hm/50uH coupling impedance of the block diagram of the test setup an power through a LISN that provides a 500hm/50uH coupling impedance with 500hm termination. (Pleas refer to the block diagram of the test setup an power through a LISN that provides a 500hm/50uH coupling impedance with 500hm termination. Test Procedure: Both sides of A.C. line are checked for maximu conducted interference. In order to find the maximu emission, the relative positions of equipment and all the interface cables must be changed according ANSI C63.10.2020 on conducted measurement. <td>Test Method:</td> <td>ANSI C63.10:2020</td> <td></td> <td></td>	Test Method:	ANSI C63.10:2020		
Limits: Frequency range (MHz) Limit (dBuV) Quasi-peak 0.15-0.5 66 to 56* 56 to 46* 0.5-5 56 46 5-30 60 50 Reference Plane Image: Colspan="2">ENT table/Insulation plane Reference Plane Image: Colspan="2">ENT table/Insulation plane Remark ENT table/Insulation plane Remark EUT Test table/Insulation plane ENT table/Insulation plane Remark EUT Test table/Insulation plane ENT test table/Insulation plane Test Mode: Charging + Transmitting Mode 1. The E.U.T is connected to an adapter through a lini impedance stabilization network (L.I.S.N.). The provides a 500hm/50UH coupling impedance for the measuring equipment. 2. The peripheral devices are also connected to the maximu coupling impedance with 500hm termination. (Please refer to the block diagram of the test setup at photographs). 3. Both sides of A.C. line are checked for maximu conducted interference. In order to find the maximu emission, the relative positions of equipment and all the interface cables must be changed according ANSI C63.10:2020 on conducte	Frequency Range:	150 kHz to 30 MHz	(C)	
Imits: Quasi-peak Average 0.15-0.5 66 to 56* 56 to 46* 0.5-5 56 46 5-30 60 50 Reference Plane 40cm Filter Ac power Fest Setup: Reference Plane Remark Socm Remark E.U.T Remark Socm EUT Equament Under Test LSV Line Impedence Stabilization Network Test Mode: Charging + Transmitting Mode 1. The E.U.T is connected to an adapter through a linimpedance stabilization network (L.I.S.N.). The provides a 500hm/50UH coupling impedance for the measuring equipment. 2. The peripheral devices are also connected to the map ower through a LISN that provides a 500hm/50U coupling impedance for the measuring equipment. 2. The peripheral devices are also connected to the map ower through a LISN that provides a 500hm/50U coupling impedance with 500hm termination. (Pleaser refer to the block diagram of the test setup an photographs). 3. Both sides of A.C. line are checked for maximu conducted interference. In order to find the maximu emission, the relative positions of equipment and all the interface cables must be changed according ANSI C63.10:2020 on conducted measurement.	Receiver setup:	RBW=9 kHz, VBW=30	kHz, Sweep time	e=auto
Limits: 0.15-0.5 66 to 56* 56 to 46* 0.5-5 56 46 5-30 60 50 Reference Plane Image: Colspan="2">Image: Colspan="2">Colspan="2"Colspan="		Frequency range	Limit (dBuV)
0.5-5 56 46 5-30 60 50 Reference Plane 40cm Image: Colspan="2">Image: Colspan="2" Image: Colspan=		(MHz)	Quasi-peak	Average
5-30 60 50 Reference Plane Image: Solution plane Image: Solution plane Image: Solution plane Remark: EUT Featrable height=0.8m Charging + Transmitting Mode Test Mode: Charging + Transmitting Mode 1. The E.U.T is connected to an adapter through a lini impedance stabilization network (L.I.S.N.). The provides a 500hm/50uH coupling impedance for the measuring equipment. Test Procedure: Test Procedure: Solution of A.C. line are also connected to the mater power through a LISN that provides a 500hm/50uH coupling impedance for the measuring equipment. Solution the block diagram of the test setup are power through a LISN that provides a 500hm/50uH coupling impedance for the measuring equipment. Solution the block diagram of the test setup are power through a LISN that provides a 500hm/50uH coupling impedance with 500hm termination. (Please refer to the block diagram of the test setup are photographs). Solution sides of A.C. line are checked for maximuter conducted interference. In order to find the maximuter provides a cording ANSI C63.10:2020 on conducted measurement.	Limits:	0.15-0.5	66 to 56*	56 to 46*
Test Setup: Reference Plane Image: Plane Image: Plane Permark: E.U.T Permark: EUT Feature Test Mode: Charging + Transmitting Mode 1. The E.U.T is connected to an adapter through a lini impedance stabilization network (L.I.S.N.). The provides a 500hm/50uH coupling impedance for the measuring equipment. 2. The peripheral devices are also connected to the max power through a LISN that provides a 500hm/50uc coupling impedance with 500hm termination. (Pleat refer to the block diagram of the test setup at photographs). 3. Both sides of A.C. line are checked for maximu conducted interference. In order to find the maximu emission, the relative positions of equipment and all the interface cables must be changed according ANSI C63.10:2020 on conducted measurement.		0.5-5	56	46
Test Setup: Image: Test table/Insulation plane B0cm LISN Filter AC power Remark: E.U.T. Facipament Under Test EMI Receiver Test Mode: Charging + Transmitting Mode 1. The E.U.T is connected to an adapter through a lini impedance stabilization network (L.I.S.N.). The provides a 500hm/500H coupling impedance for the measuring equipment. Test Procedure: 2. The peripheral devices are also connected to the map power through a LISN that provides a 500hm/50uH coupling impedance for the provides a 500hm/50uH coupling impedance for the provides a 500hm/50uH coupling impedance for the measuring equipment. Test Procedure: 3. Both sides of A.C. line are checked for maximu conducted interference. In order to find the maximu emission, the relative positions of equipment and all the interface cables must be changed according ANSI C63.10:2020 on conducted measurement.		5-30	60	50
Test Setup: Image: Charging + Transmitting Mode Test Mode: Charging + Transmitting Mode 1. The E.U.T is connected to an adapter through a lini impedance stabilization network (L.I.S.N.). The provides a 50ohm/50uH coupling impedance for the measuring equipment. 2. The peripheral devices are also connected to the maximu conducted interference. In order to find the maximu conducted interference. In order to find the maximu emission, the relative positions of equipment and all the interface cables must be changed according ANSI C63.10:2020 on conducted measurement.		Referenc	e Plane	
 The E.U.T is connected to an adapter through a linimpedance stabilization network (L.I.S.N.). The provides a 500hm/50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the material power through a LISN that provides a 500hm/50u coupling impedance with 500hm termination. (Please refer to the block diagram of the test setup at photographs). Both sides of A.C. line are checked for maximute conducted interference. In order to find the maximute mission, the relative positions of equipment and all the interface cables must be changed according ANSI C63.10:2020 on conducted measurement. 		E.U.T AC power Test table/Insulation plane Remark E.U.T. Equipment Under Test LISN: Line Impedence Stabilization Na Test table height=0.8m	EMI Receiver	r — AC power
	Test Procedure:	 The E.U.T is connelimpedance stabilizing provides a 500hm/s measuring equipme The peripheral device power through a Licoupling impedance refer to the block photographs). Both sides of A.C. conducted interferer emission, the relative the interface cables 	cted to an adapt ation network 50uH coupling im nt. ces are also conne SN that provides with 50ohm terr diagram of the line are checkence. In order to fi e positions of equ s must be chang	(L.I.S.N.). This pedance for the ected to the main s a 50ohm/50uh nination. (Please test setup and ed for maximum nd the maximum upment and all o ged according to
Test Result: PASS	Teet Decult:	PASS		

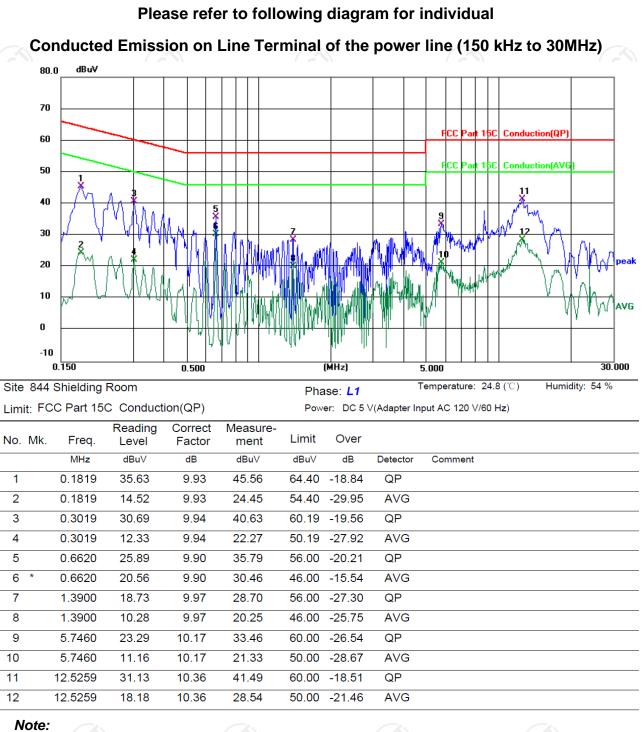
5.2.2. Test Instruments

Conducted Emission Shielding Room Test Site (843)					
Manufacturer	Model	Serial Number	Calibration Due		
R&S	ESCI3	100898	Jun. 26, 2025		
Schwarzbeck	NSLK 8126	8126453	Jan. 20, 2026		
N/A	10dB	164080	Jun. 26, 2025		
тст	CE-05	/	Jun. 26, 2025		
EZ_EMC	EMEC-3A1	1.1.4.2	1		
	Manufacturer R&S Schwarzbeck N/A TCT	ManufacturerModelR&SESCI3SchwarzbeckNSLK 8126N/A10dBTCTCE-05	ManufacturerModelSerial NumberR&SESCI3100898SchwarzbeckNSLK 81268126453N/A10dB164080TCTCE-05/		



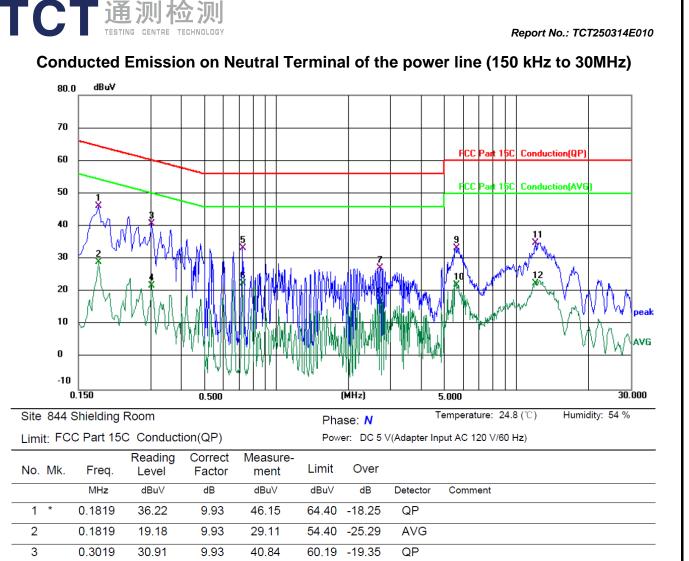
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5.2.3. Test data



Freq. = Emission frequency in MHz	
Reading level (dB μ V) = Receiver reading	
Corr. Factor (dB) = LISN factor + Cable loss	
Measurement (dB μ V) = Reading level (dB μ V) + Corr. Factor (dB)	
Limit (dB μ V) = Limit stated in standard	
Margin (dB) = Measurement (dB μ V) – Limits (dB μ V)	
Q.P. =Quasi-Peak	
AVG =average	
* is meaning the worst frequency has been tested in the frequency range 150 kHz to 30MHz	

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50.19 -28.41

56.00 -22.70

46.00 -23.42

56.00 -28.82

46.00 -28.30

60.00 -26.58

50.00 -27.98

AVG

QP

AVG

QP

AVG

QP

AVG

QP AVG

	- 4 - 5		<u> </u>		2	
12	12.0259	12.13	10.39	22.52	50.00	-27.48
11	12.0259	24.49	10.39	34.88	60.00	-25.12

9.93

9.94

9.94

10.06

10.06

10.18

10.18

21.78

33.30

22.58

27.18

17.70

33.42

22.02

Note1: Freq. = Emission frequency in MHz Reading level $(dB\mu V)$ = Receiver reading Corr. Factor (dB) = LISN factor + Cable loss Measurement $(dB\mu V)$ = Reading level $(dB\mu V)$ + Corr. Factor (dB)Limit $(dB\mu V)$ = Limit stated in standard Margin (dB) = Measurement $(dB\mu V)$ – Limits $(dB\mu V)$

Q.P. =Quasi-Peak

AVG =average

0.3019

0.7259

0.7259

2.7179

2.7179

5.6779

5.6779

4

5

6 7

8 9

10

11.85

23.36

12.64

17.12

7.64

23.24

11.84

* is meaning the worst frequency has been tested in the frequency range 150 kHz to 30MHz.

Note2: Speed for 1M and 2M modulations of EUT have been tested, but the test data only show the worst case in this report, and we found the worst case is 2M speed modulation. Measurements were conducted in all three channels (high, middle, low), and the worst case Mode (Highest channel) was submitted only.

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:	Spectrum Analyzer EUT					
Test Mode:	Refer to item 3.1					
Test Procedure:	 Set spectrum analyzer as following: a) Set the RBW ≥ DTS bandwidth. b) Set VBW ≥ 3 × RBW. c) Set span ≥ 3 x 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. 					
Test Result:	PASS					

5.3.2. Test Instruments

Name	Manufacturer	Model No.	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	N9020A	MY49100619	Jun. 26, 2025
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
Test Setup:	
Taat Mada	Spectrum Analyzer
Test Mode:	Refer to item 3.1
Test Procedure:	 Set to the maximum power setting and enable the EUT transmit continuously. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. Set the Video bandwidth (VBW) = 300 kHz. In order to make an accurate measurement. The 6dB bandwidth must be greater than 500 kHz. Measure and record the results in the test report.
Test Result:	PASS

5.4.2. Test Instruments

Name	Manufacturer	Model No.	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	N9020A	MY49100619	Jun. 26, 2025
Combiner Box	Ascentest	AT890-RFB	3 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 than 8dBm in any 3kHz band at any time inf continuous transmission.					
Test Setup:						
	Spectrum Analyzer EUT	<u> </u>				
Test Mode:	Refer to item 3.1					
Test Procedure:	 The RF output of EUT was connected to the s analyzer by RF cable. The path loss was compensated to the results for each measure Set to the maximum power setting and enable EUT transmit continuously. Make the measurement with the spectrum ana resolution bandwidth (RBW): 3 kHz ≤ RBW ≤ kHz. Video bandwidth VBW ≥ 3 x RBW. In or make an accurate measurement, set the spat times DTS Channel Bandwidth. (6dB BW) Detector = peak, Sweep time = auto couple, T mode = max hold, Allow trace to fully stabilize the peak marker function to determine the ma power level. 	ement. the alyzer's 100 der to n to 1.5 race e. Use				
	5. Measure and record the results in the test rep	ort. 🚫				

5.5.2. Test Instruments

Name	Manufacturer	Model No.	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	N9020A	MY49100619	Jun. 26, 2025
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 7	15.247 (d)	
Test Method:	KDB 558074 D01 v05r0	02	C
Limit:	In any 100 kHz band frequency band, the non-restricted bands sh 30dB relative to the ma RF conducted measur which fall in the restrict 15.205(a), must also co limits specified in Section	emissions which fa all be attenuated at lea aximum PSD level in 10 rement and radiated ands, as defined in comply with the radiated	ll in the st 20 dB / 00 kHz by emissions n Section
Test Setup:	Spectrum Analyzer	— <mark></mark> (С	
Test Mode:	Refer to item 3.1	$\langle \mathcal{C} \rangle$	Ŕ
Test Procedure:	compensated to the 2. Set to the maximum (EUT transmit continu 3. Set RBW = 100 kHz, Unwanted Emissions bandwidth outside of shall be attenuated to maximum in-band por maximum peak cond used. If the transmitt power limits based of a time interval, the a paragraph shall be 3 15.247(d). 4. Measure and record to	e. The path loss was results for each measu power setting and enab uously. VBW=300 kHz, Peak E s measured in any 100 f the authorized frequer by at least 20 dB relativ eak PSD level in 100 kH ducted output power pro- ter complies with the co on the use of RMS avera- ttenuation required und 80 dB instead of 20 dB p the results in the test re	rement. le the Detector. kHz ncy band e to the tz when bcedure is nducted aging over ler this ber port. ccluded
		in the operating neque	



5.6.2. Test Instruments

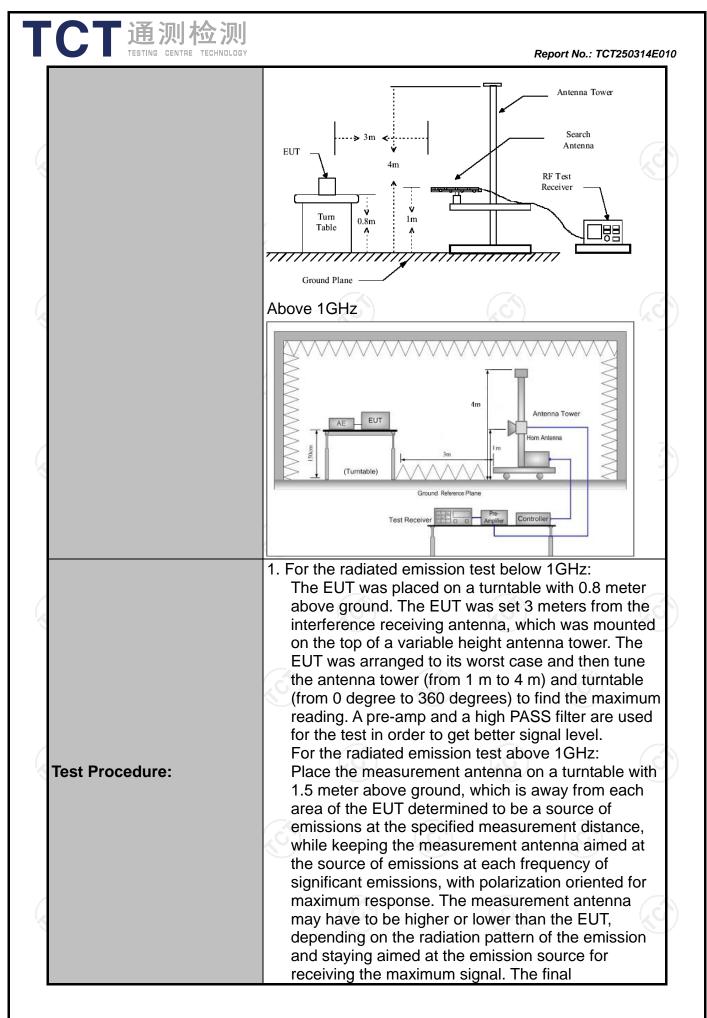
Spe	Name	Manufacturer	Model No.	Serial Number	Calibration Due
🔍) An	ectrum alyzer	Agilent	N9020A	MY49100619	Jun. 26, 2025
	piner Box	Ascentest	AT890-RFB	1	1

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 C63.10:2020					
Frequency Range:	9 kHz to 25 GHz					
Measurement Distance:	3 m					
Antenna Polarization:	Horizontal & Vertical					
Operation mode:	Refer to item 3.1					
	Frequency	Detector	RBW	VBW		Remark
	9kHz- 150kHz	Quasi-peak		1kHz		si-peak Value
Receiver Setup:	150kHz- 30MHz	Quasi-peak		30kHz		si-peak Value
·	30MHz-1GHz	Quasi-peak	120KHz	300KHz	Quas	si-peak Value
	Above 1GHz	Peak	1MHz	3MHz	P	eak Value
		Peak	1MHz	10Hz	Ave	erage Value
	Frequen	су	Field Stre (microvolts	-		asurement nce (meters)
	0.009-0.4	190	2400/F(ł	(Hz)		300
	0.490-1.7	/	24000/F(KHz)		30	
	1.705-30		30		30	
	30-88		100		3	
	88-216		150		3	
Limit:	216-960		200		3	
	Above 960		500			3
	Frequency Above 1GHz	(micro	d Strength volts/meter) 500 5000	Measurer Distanc (meters 3 3	ce	Detector Average Peak
	For radiated	emissions	below 30	MHz	Compu	



CT通测检测 TESTING CENTRE TECHNOLOGY	Report No.: TCT250314E0
	 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. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level 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. Use the following spectrum analyzer settings: (1) Span shall wide enough to fully capture the emission being measured; (2) Set RBW=120 kHz for f < 1 GHz; VBW ≥ RBW; Sweep = auto; Detector function = peak; Trace = max hold; (3) Set RBW = 1 MHz, VBW= 3MHz for f > 1 GHz for peak measurement. For average measurement: VBW = 10 Hz, when duty cycle is no less than 98 percent where T is 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.
Test mode:	Refer to section 3.1 for details
Test results:	PASS

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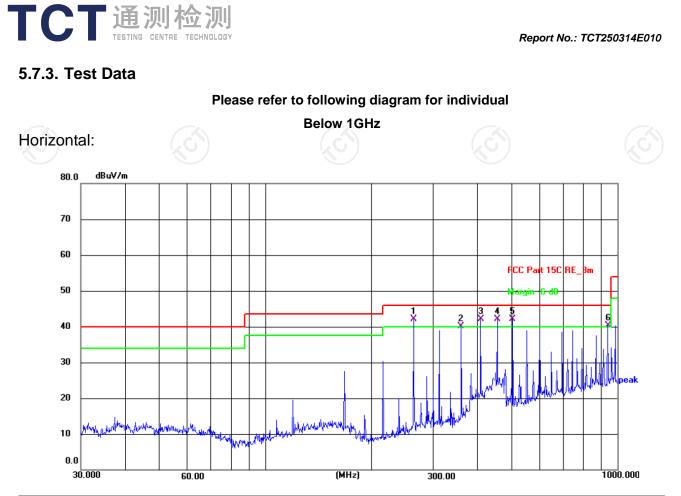
5.7.2. Test Instruments

TCT 通测检测 TESTING CENTRE TECHNOLOGY

Radiated Emission Test Site (966)						
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due		
EMI Test Receiver	R&S	ESCI7	100529	Jan. 20, 2026		
Spectrum Analyzer	R&S	FSQ40	200061	Jun. 26, 2025		
Pre-amplifier	SKET	LNPA_0118G- 45	SK2021012 102	Jan. 20, 2026		
Pre-amplifier	SKET	LNPA_1840G- 50	SK2021092 03500	Jan. 20, 2026		
Pre-amplifier	HP	8447D	2727A05017	Jun. 26, 2025		
Loop antenna	Schwarzbeck	FMZB1519B	00191	Jun. 26, 2025		
Broadband Antenna	Schwarzbeck	VULB9163	340	Jun. 28, 2025		
Horn Antenna	Schwarzbeck	BBHA 9120D	631	Jun. 28, 2025		
Horn Antenna	Schwarzbeck	BBHA 9170	00956	Jan. 22, 2026		
Coaxial cable	SKET	RE-03-D	/	Jun. 26, 2025		
Coaxial cable	SKET	RE-03-M) /	Jun. 26, 2025		
Coaxial cable	SKET	RE-03-L	/	Jun. 26, 2025		
Coaxial cable	SKET	RE-04-D	1	Jun. 26, 2025		
Coaxial cable	SKET	RE-04-M	R	Jun. 26, 2025		
Coaxial cable	SKET	RE-04-L	/	Jun. 26, 2025		
Antenna Mast	Keleto	RE-AM	1			
EMI Test Software	EZ_EMC	FA-03A2 RE+	1.1.4.2			

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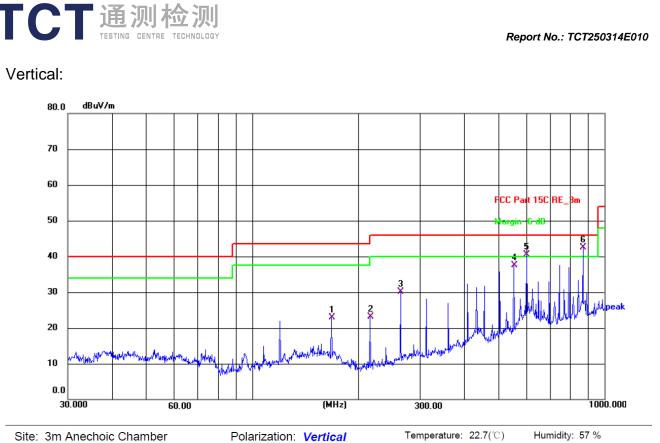


Site: 3m Anechoic ChamberPolarization: HorizontalTemperature: 22.7(°C)Limit: FCC Part 15C RE 3mPower: DC 3.7 V

					1 0 1		1		
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1 !	263.8190	60.97	-18.91	42.06	46.00	-3.94	QP	Ρ	
2!	360.4476	56.42	-16.38	40.04	46.00	-5.96	QP	Ρ	
3!	408.9459	56.77	-14.72	42.05	46.00	-3.95	QP	Ρ	
4 !	455.9058	55.45	-13.41	42.04	46.00	-3.96	QP	Ρ	
5 *	504.7062	54.32	-12.21	42.11	46.00	-3.89	QP	Ρ	
6!	938.8325	45.73	-5.40	40.33	46.00	-5.67	QP	Ρ	

Humidity: 57 %

 Image: Second second



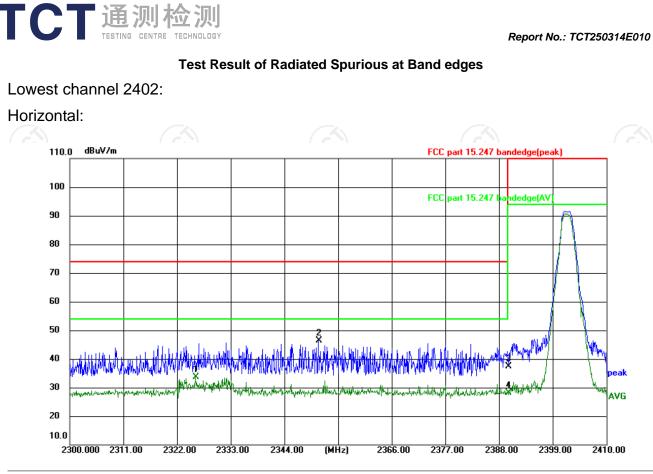
Power DC 37 V

Limit:	FCC Part 150	CRE_3m			Pov				
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	167.8242	40.61	-17.72	22.89	43.50	-20.61	QP	Ρ	
2	216.0239	43.93	-20.82	23.11	46.00	-22.89	QP	Ρ	
3	263.8190	49.09	-18.91	30.18	46.00	-15.82	QP	Ρ	
4	552.8832	48.97	-11.38	37.59	46.00	-8.41	QP	Ρ	
5 !	601.4265	50.60	-10.04	40.56	46.00	-5.44	QP	Ρ	
6 *	869.1302	48.95	-6.39	42.56	46.00	-3.44	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. Speed for 1M and 2M modulations of EUT have been tested, but the test data only show the worst case in this report, and we found the worst case is 2M speed modulation. 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 μ V/m) – Limits (dB μ V/m) * is meaning the worst frequency has been tested in the test frequency range

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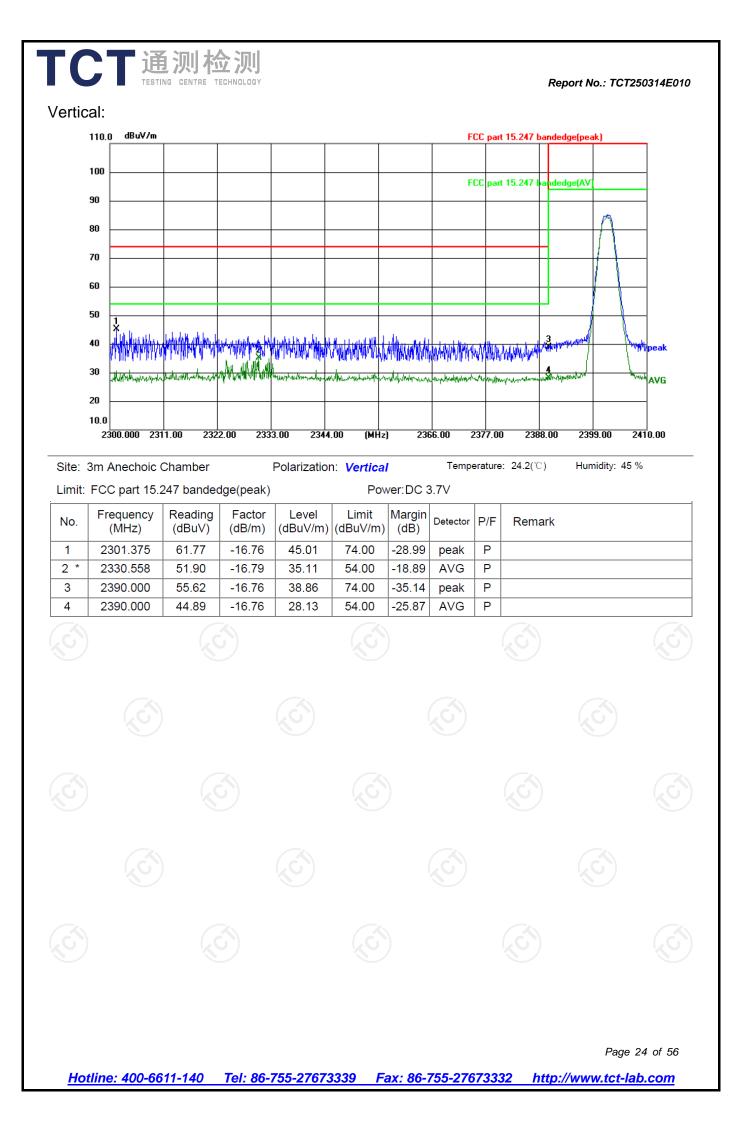


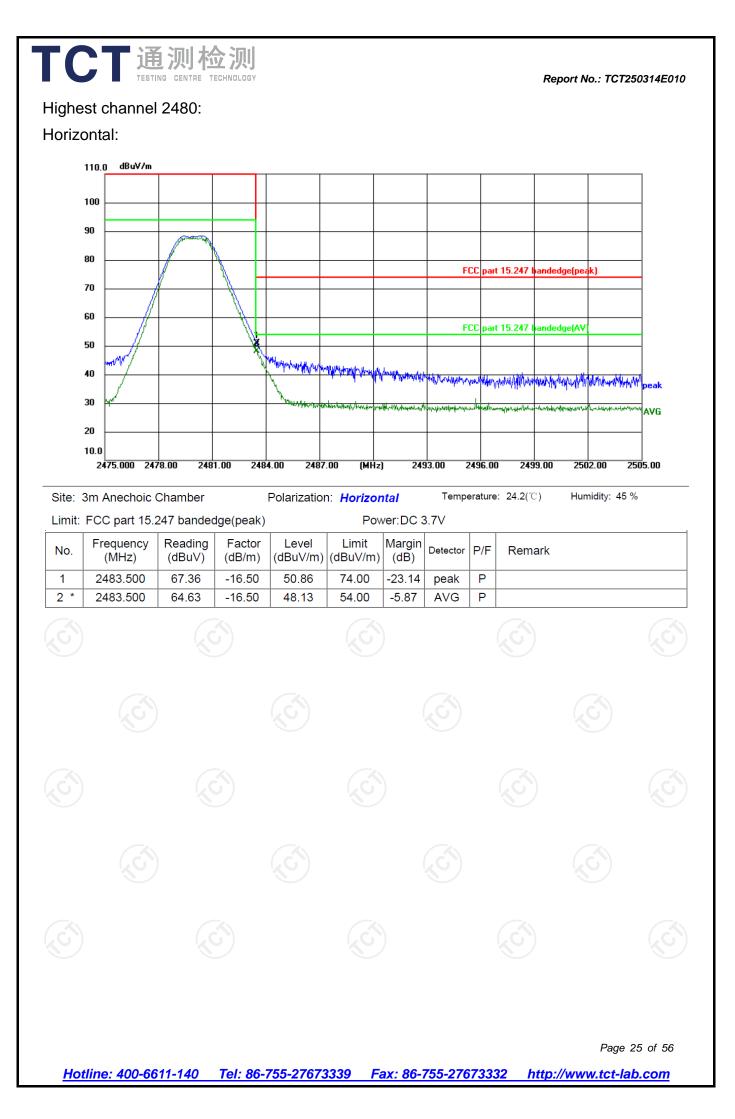
Site: 3m Anechoic Chamber Polarization: Horizontal Temperature: 24.2(°C) Humidity: 45 %

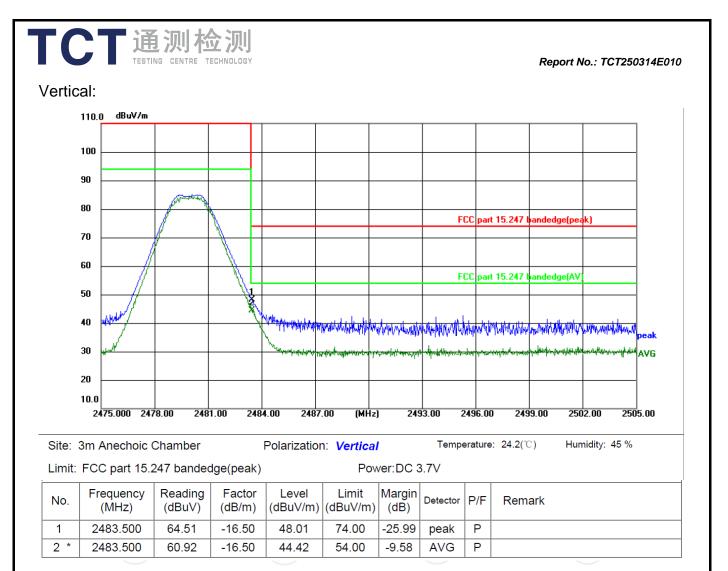
Limit:	FCC part 15.2	247 bandeo	lge(peak)		Pov	/er:DC 3	3.7V		
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector	P/F	Remark
1 *	2325.828	50.34	-16.79	33.55	54.00	-20.45	AVG	Ρ	
2	2351.029	63.25	-16.81	46.44	74.00	-27.56	peak	Ρ	
3	2390.000	54.22	-16.76	37.46	74.00	-36.54	peak	Ρ	
4	2390.000	44.94	-16.76	28.18	54.00	-25.82	AVG	Ρ	



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Note: Speed for 1M and 2M modulations of EUT have been tested, but the test data only show the worst case in this report, and we found the worst case is 2M speed modulation.



Above 1GHz

Low chann	el: 2402 N	1Hz							
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBuV)	Correction Factor (dB/m)	Emissio Peak (dBµV/m)	AV	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
4804	Н	55.74		-9.51	46.23		74	54	-7.77
7206	Н	45.80		-1.41	44.39		74	54	-9.61
	Н								
4804	V	54.05		-9.51	44.54	~	74	54	-9.46
7206	S V	46.27		-1.41	44.86	<u>.C`</u>	74	54	-9.14
	V				``				

Middle channel: 2440 MHz

Frequency	Ant Pol	Peak	AV	Correction	Emissic	on Level	Peak limit AV limit		Margin	
(MHz)	H/V	reading (dBµV)	reading (dBµV)	Factor (dB/m)	Peak (dBµV/m)		(dBµV/m)		(dB)	
4880	Н	55.91		-9.36	46.55		74	54	-7.45	
7320	Н	45.36		-1.15	44.21		74	54	-9.79	
	Н				/					
			K.					KO I		
4880	V	54.58		-9.36	45.22		74	54	-8.78	
7320	V	46.02		-1.15	44.87		74	54	-9.13	
	V	il.								

High chanr	nel: 2480 N	ЛHz							
Frequency (MHz)	Ant. Pol. H/V (dBµV)		AV reading (dBµV)	Correction Factor (dB/m)	Peak		Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
4960	Н	55.79	-+ 6	-9.20	46.59		74	54	-7.41
7440	H	45.14	-	-0.96	44.18		74	54	-9.82
	H								
4960	V	55.68		-9.20	46.48		74	54	-7.52
7440	V	46.24		-0.96	45.28		74	54	-8.72
S	V				J				

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.

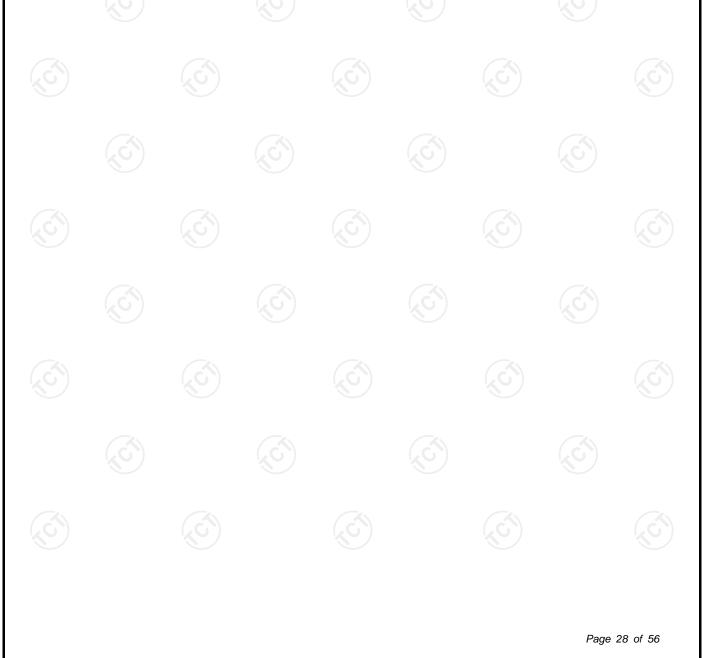
6. Speed for 1M and 2M modulations of EUT have been tested, but the test data only show the worst case in this report, and we found the worst case is 2M speed modulation.

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

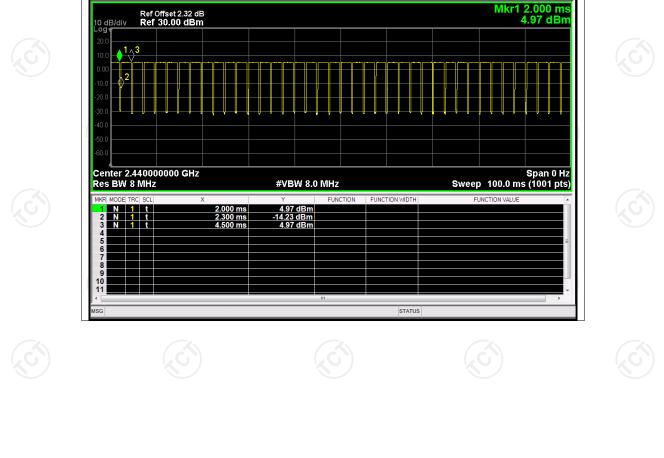


Appendix A: Test Result of Conducted Test

			Duty Cycle				
Condition	Mode	Frequency (MHz)	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)		
NVNT	BLE 1M	2402	88.31	0.54	0.48		
NVNT	BLE 1M	2440	88.51	0.53	0.45		
NVNT 🔇	BLE 1M	2480	88.21	0.54	0.45		
NVNT	BLE 2M	2402	62.14	2.07	1.00		
NVNT	BLE 2M	2440	62.34	2.05	0.91		
NVNT	BLE 2M	2480	62.34	2.05	1.00		
No.	R.)			S		



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 Ref Offset 2.19 dB
 Mkr1 700.0 µs

 0 dB/div
 Ref 30.00 dBm

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Test Graphs
Duty Cycle NVNT BLE 1M 2402MHz

PNO: Fast ---- Trig: Free Run IFGain:Low #Atten: 40 dB Avg Type: Log-Pwr

Avg Type: Log-Pwr

Duty Cycle NVNT BLE 1M 2440MHz

PNO: Fast ---- Trig: Free Run IFGain:Low #Atten: 40 dB

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Report No.: TCT250314E010

04:16:30 PM Mar 14, 2025

04:19:50 PM Mar 14, 2025 TRACE 1 2 3 4 5 TYPE WWWWW DET P N N N N

TRACE 1 2 3 4 5 6 TYPE WWWWWW DET P NNNN

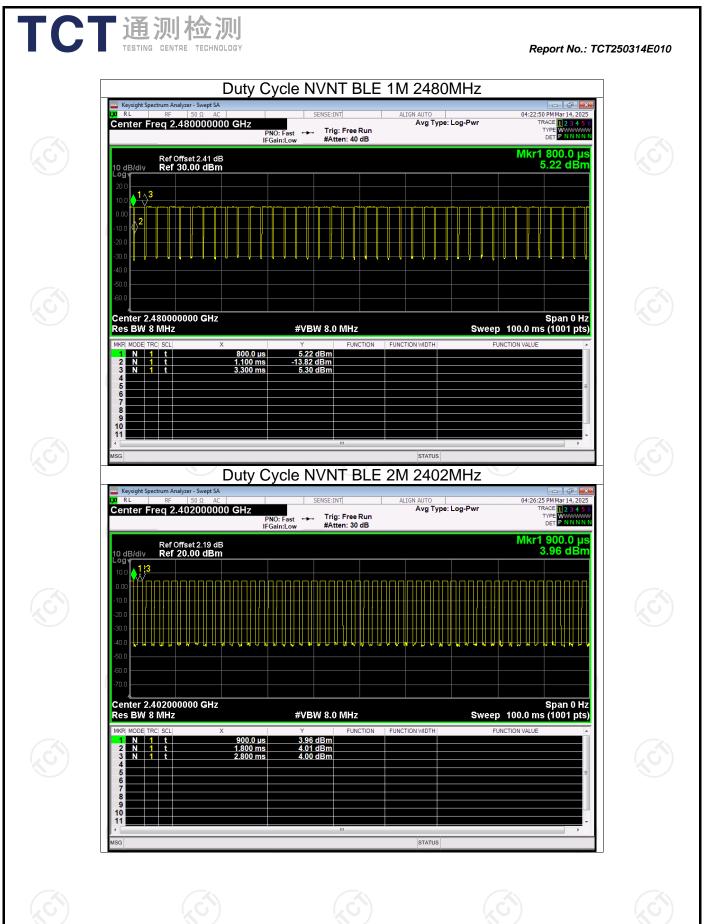
Keysight Spectrum Analyzer - Swept SA

Keysight Spe

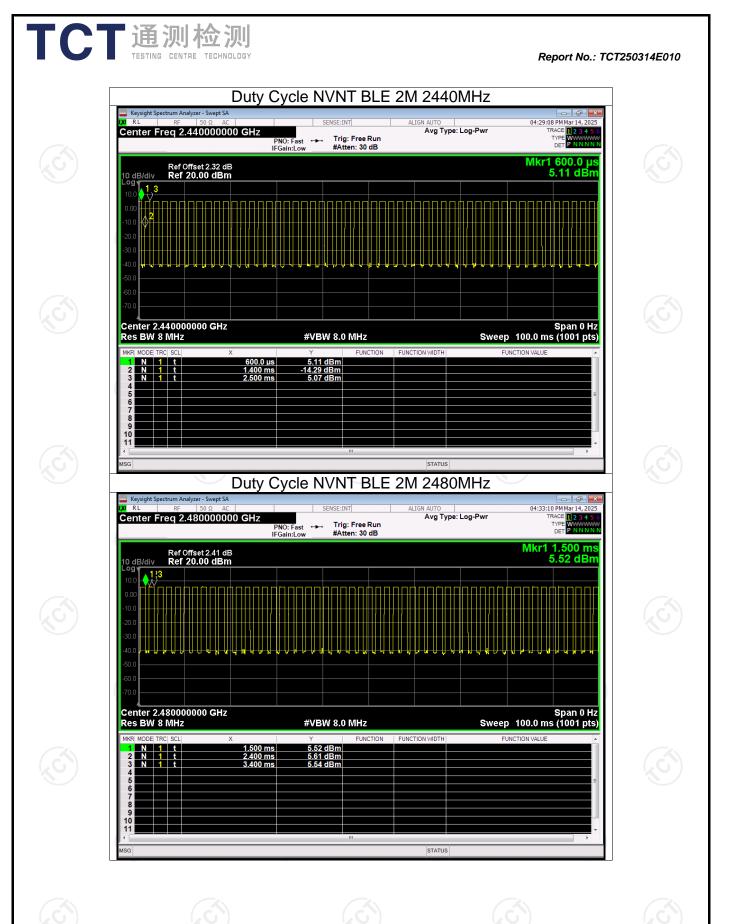
Hotline: 400-6611-140

Center Freq 2.440000000 GHz

Center Freq 2.402000000 GHz



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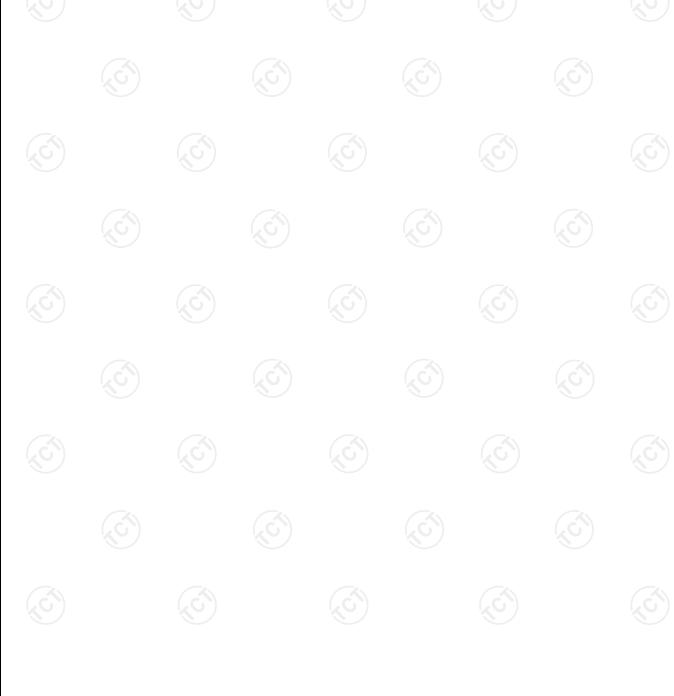


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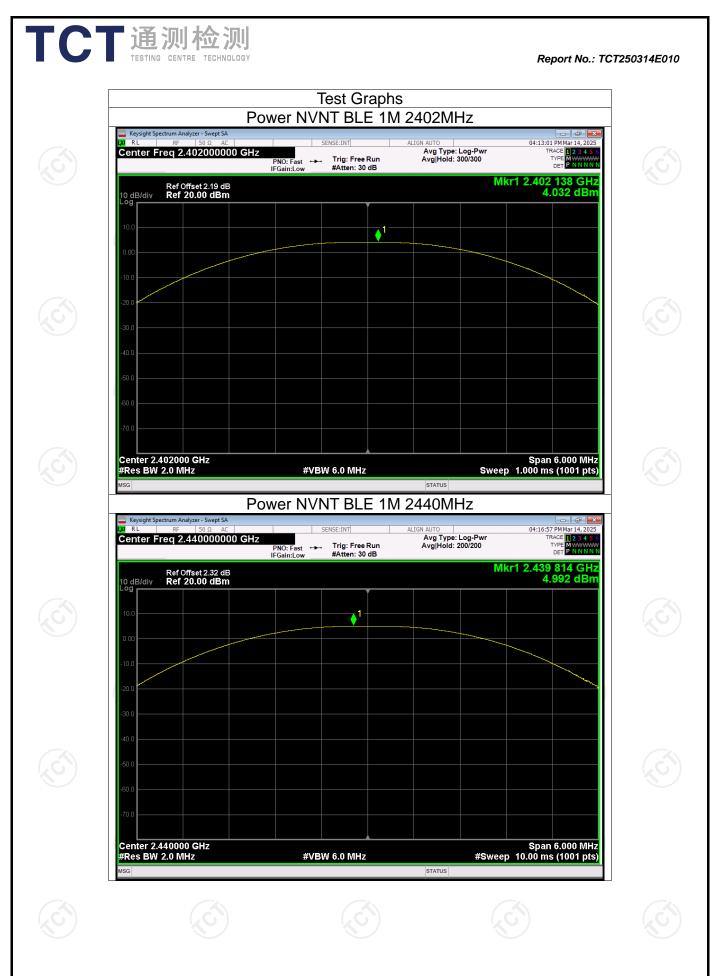
Condition	Mode	Frequency (MHz)	Conducted Power (dBm)	Limit (dBm)	Verdict	
NVNT	BLE 1M	2402	4.03	30	Pass	
NVNT	BLE 1M	2440	4.99	30	Pass	
NVNT	BLE 1M	2480	5.40	30	Pass	
NVNT	BLE 2M	2402	3.97	30	Pass	
NVNT	BLE 2M	2440	5.07	30	Pass]
NVNT	BLE 2M	2480	5.52	30	Pass	

Maximum Conducted Output Power

TCT通测检测 TCT通测检测



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04:20:24 PM Mar 14, 2025 TRACE 1 2 3 4 5 (TYPE MWWWW DET P N N N N Avg Type: Log-Pwr Avg|Hold: 200/200 Trig: Free Run #Atten: 30 dB PNO: Fast ↔→ IFGain:Low Mkr1 2.479 832 GHz 5.404 dBm Ref Offset 2.41 dB Ref 20.00 dBm 10 dB/div Log 1 Center 2.480000 GHz #Res BW 2.0 MHz Span 6.000 MHz Sweep 1.000 ms (1001 pts) #VBW 6.0 MHz STATUS Power NVNT BLE 2M 2402MHz Keysight Spectrum Analyzer - Swept SA 04:23:13 PM Mar 14, 2025 TRACE 1 2 3 4 5 6 TYPE MWWWWW DET P N N N N KI RL Avg Type: Log-Pw Avg|Hold: 300/300 Center Freq 2.402000000 GHz PNO: Fast ---- Trig: Free Run IFGain:Low #Atten: 40 dB Mkr1 2.402 216 GHz 3.972 dBm Ref Offset 2.19 dB Ref 30.00 dBm 10 dB/div Log **1** Center 2.402000 GHz #Res BW 2.0 MHz Span 6.000 MHz Sweep 1.000 ms (1001 pts) #VBW 6.0 MHz STATUS

Power NVNT BLE 1M 2480MHz

KI RL

Keysight Spectrum Analyzer - Swept S

Center Freq 2.480000000 GHz

Report No.: TCT250314E010

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04:26:48 PM Mar 14, 2025 TRACE 1 2 3 4 5 6 TYPE MWWWWW DET P NNNN Avg Type: Log-Pwr Avg|Hold: 300/300 Trig: Free Run #Atten: 30 dB PNO: Fast ↔→ IFGain:Low Mkr1 2.440 312 GHz 5.068 dBm Ref Offset 2.32 dB Ref 20.00 dBm 10 dB/div Log **V**1 Center 2.440000 GHz #Res BW 2.0 MHz Span 6.000 MHz #Sweep 10.00 ms (1001 pts) #VBW 6.0 MHz STATUS Power NVNT BLE 2M 2480MHz Keysight Spectrum Analyzer - Swept SA 04:29:27 PM Mar 14, 2025 TRACE 1 2 3 4 5 6 TYPE MWWWW DET P NNNN KI RL Center Freq 2.480000000 GHz Avg Type: Log-Pw Avg|Hold: 300/300 PNO: Fast +++ Trig: Free Run IFGain:Low #Atten: 30 dB Mkr1 2.479 718 GHz 5.515 dBm Ref Offset 2.41 dB Ref 20.00 dBm 10 dB/div Log **V** Center 2.480000 GHz #Res BW 2.0 MHz Span 6.000 MHz Sweep 1.000 ms (1001 pts) #VBW 6.0 MHz STATUS

Power NVNT BLE 2M 2440MHz

Report No.: TCT250314E010

































KI RL

Keysight Spectrum Analyzer - Swept S

Center Freq 2.440000000 GHz







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	-6dB Bandwidth										
Condition	Mode	Frequency (MHz)	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict						
NVNT	BLE 1M	2402	0.650	0.5	Pass						
NVNT	BLE 1M	2440	0.666	0.5	Pass						
NVNT	BLE 1M	2480	0.665	0.5	Pass						
NVNT	BLE 2M	2402	1.234	0.5	Pass						
NVNT	BLE 2M	2440	1.182	0.5	Pass						
NVNT 🖔	BLE 2M	2480	1.251	0.5	Pass						

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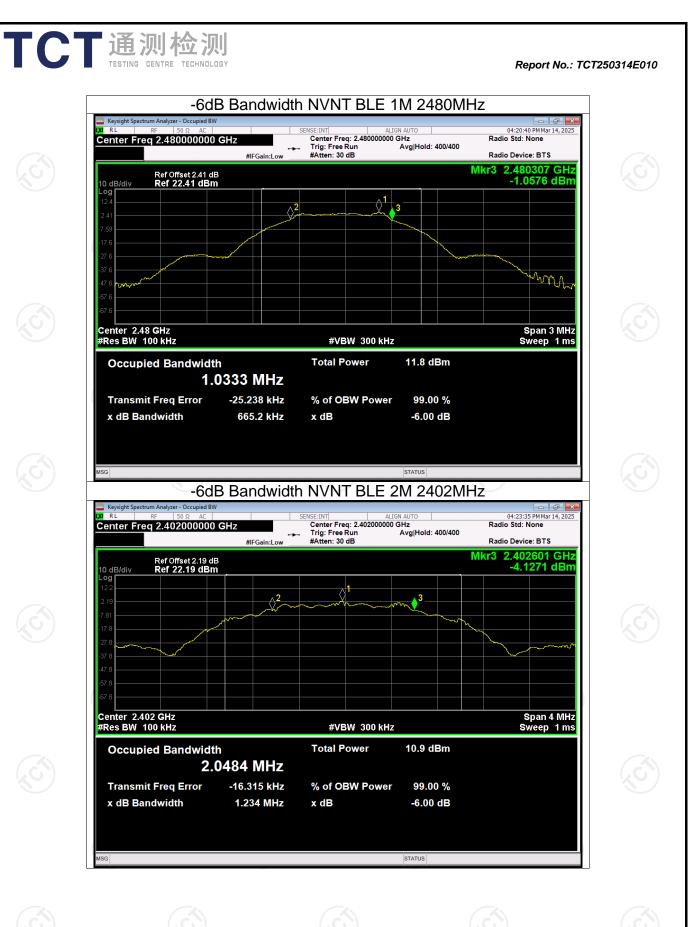
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Condition	Mode	Frequency (MHz)	Conducted PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict			
NVNT	BLE 1M	2402	-12.21	8	Pass			
NVNT	BLE 1M	2440	-11.28	8	Pass			
NVNT	BLE 1M	2480	-10.67	8	Pass			
NVNT	BLE 2M	2402	-15.08	8	Pass			
NVNT	BLE 2M	2440	-13.97	8	Pass			
NVNT	BLE 2M	2480	-13.51	8	Pass			

Maximum Power Spectral Density Level

TCT通测检测 TCT通测检测



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Test Graphs

Avg Type: Log-Pwr Avg|Hold: 100/100

PSD NVNT BLE 1M 2402MHz

PNO: Wide ---- Trig: Free Run IFGain:Low #Atten: 30 dB

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10 dB/div Log

Center Freq 2.402000000 GHz

Ref Offset 2.19 dB Ref 20.00 dBm

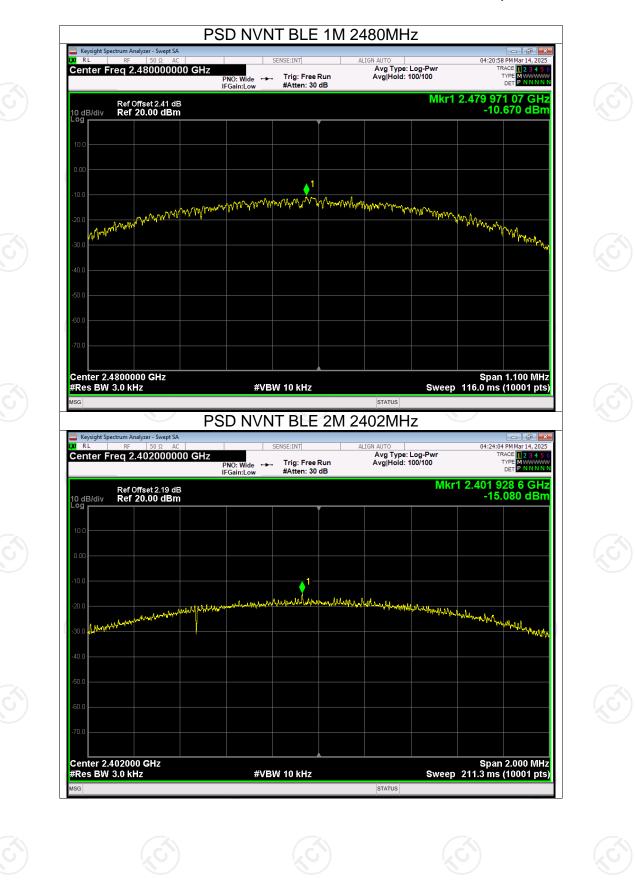
Report No.: TCT250314E010

04:13:41 PM Mar 14, 2025

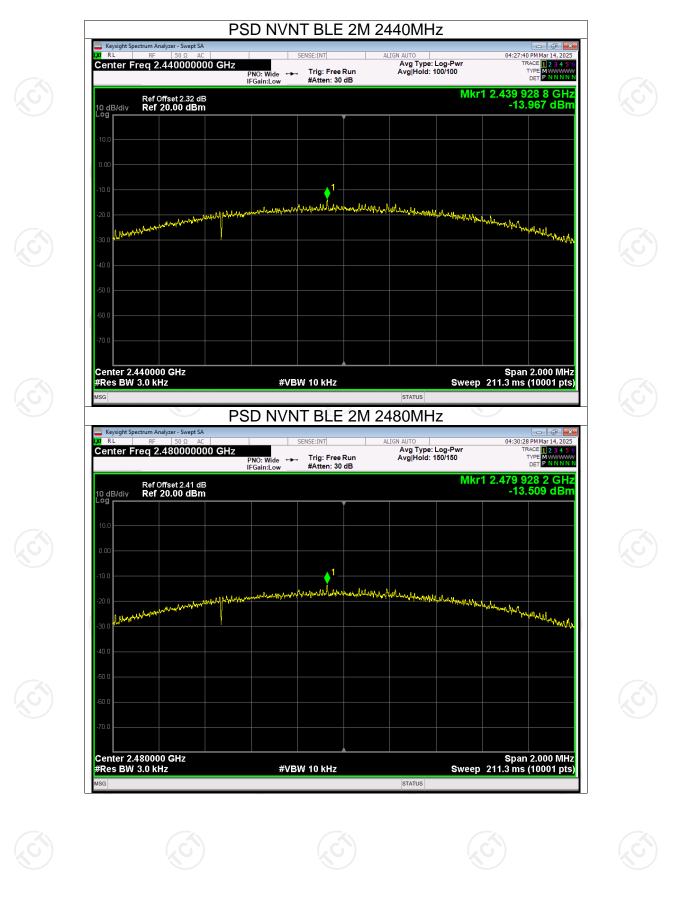
Mkr1 2.401 983 28 GHz -12.211 dBm

TRACE 1 2 3 4 5 6 TYPE MWWWW DET P N N N N

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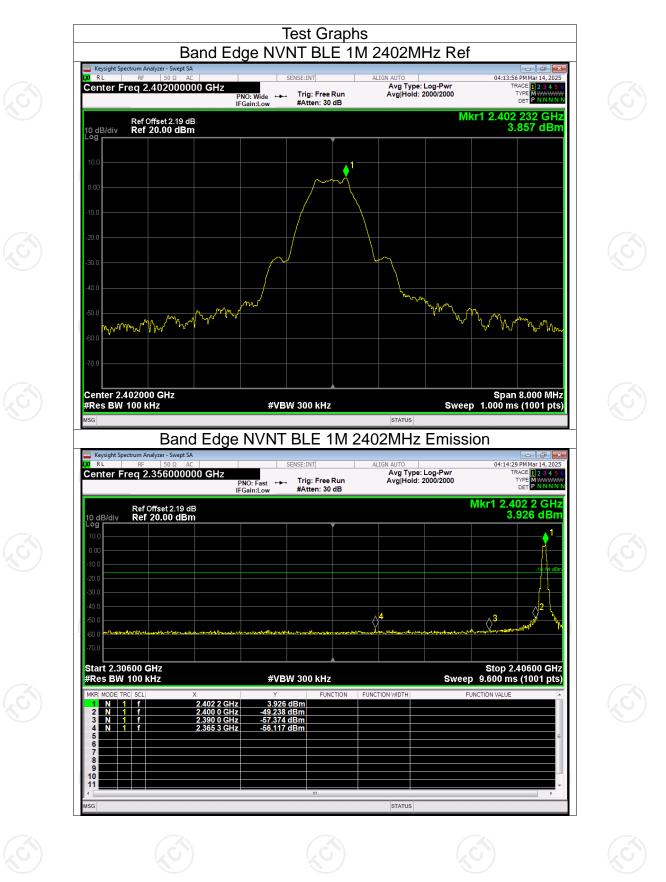
TCT通测检测 TESTING CENTRE TECHNOLOGY



onditior	n Mode	Frequen	icy (MHz)	Edge Max Valu	e (dBc)	Limit (dBc)	Verdic
NVNT	BLE 1M	24	102	-59.9	97	-20	Pass
NVNT	BLE 1M		180	-58.9		-20	Pass
NVNT	BLE 2M		102	-59.2		-20	Pass
NVNT	BLE 2M	24	180	-58.2	24	-20	Pass

Report No.: TCT250314E010

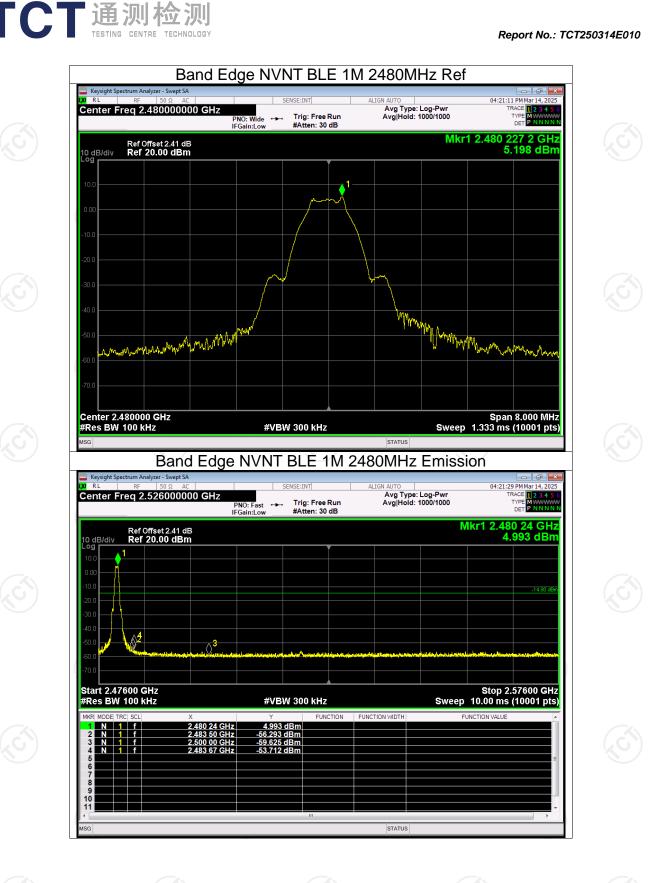
TCT通测检测 TESTING CENTRE TECHNOLOGY

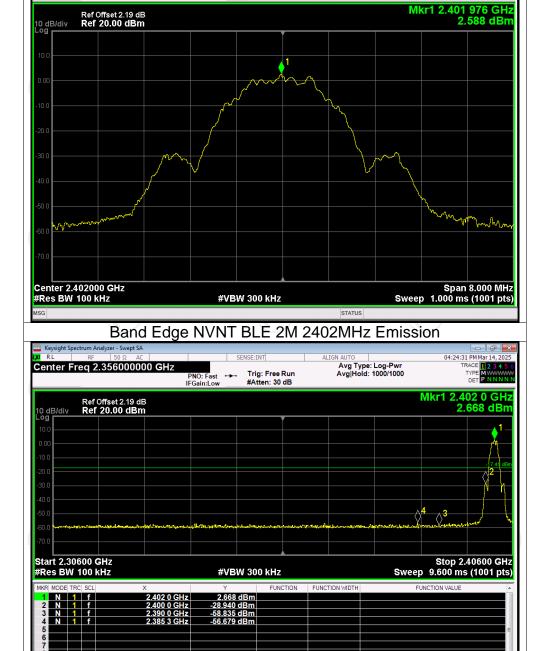


CT通测检测 TESTING CENTRE TECHNOLOGY

Report No.: TCT250314E010

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Band Edge NVNT BLE 2M 2402MHz Ref

Trig: Free Run #Atten: 30 dB

PNO: Wide IFGain:Low **н**н

Avg Type: Log-Pwr Avg|Hold: 1000/1000 04:24:15 PM Mar 14, 2025 TRACE 1 2 3 4 5 TYPE MWWWW DET P N N N N

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STATUS

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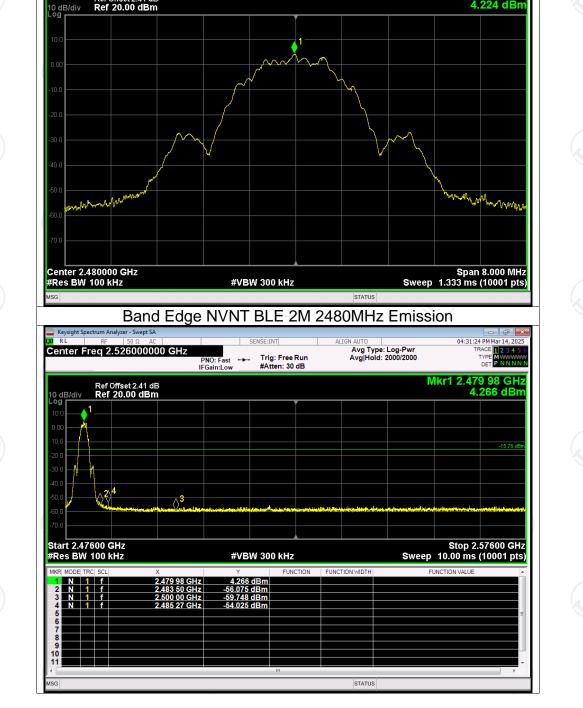
FCT通测检测 TESTING CENTRE TECHNOLOGY

🔤 Keysight S

Center Freg 2.402000000 GHz

KI RL

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Band Edge NVNT BLE 2M 2480MHz Ref

Trig: Free Run #Atten: 30 dB

PNO: Wide IFGain:Low

нн

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

FCT通测检测 TESTING CENTRE TECHNOLOGY

🔤 Keysight Sp

Center Freg 2.480000000 GHz

Ref Offset 2.41 dB Ref 20.00 dBm

KI RL

Report No.: TCT250314E010

04:30:50 PM Mar 14, 2025 TRACE 1 2 3 4 5 (TYPE MWWWW DET P N N N N

Mkr1 2.479 979 2 GHz 4.224 dBm

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Condition	Mode	Frequency (MHz)	Max Value (dBc)	Limit (dBc)	Verdict			
NVNT	BLE 1M	2402	-46.31	-20	Pass			
NVNT	BLE 1M	2440	-47.04	-20	Pass			
NVNT	BLE 1M	2480	-47.13	-20	Pass			
NVNT	BLE 2M	2402	-45.88	-20	Pass			
NVNT	BLE 2M	2440	-46.16	-20	Pass			
NVNT	BLE 2M	2480	-46.23	-20	Pass			
	5							

Conducted RF Spurious Emission



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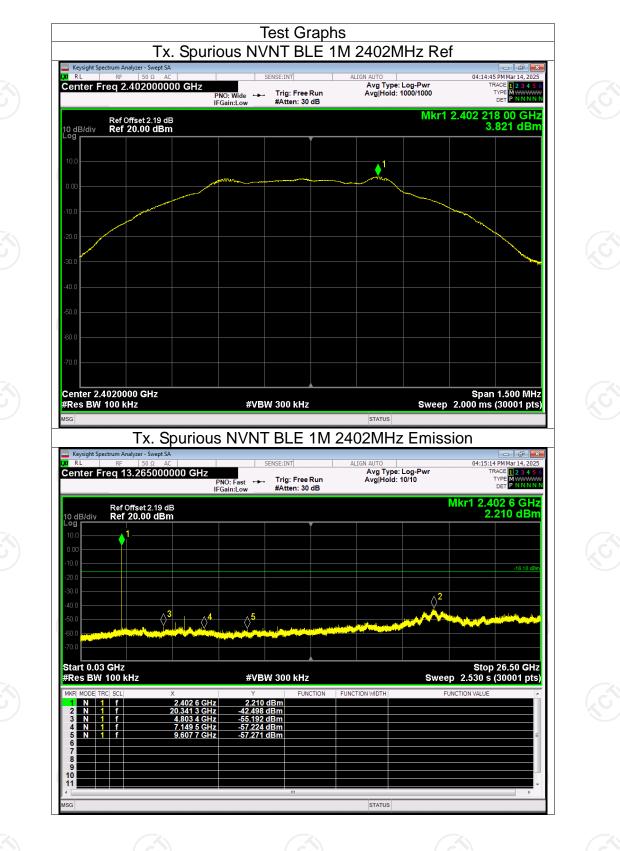








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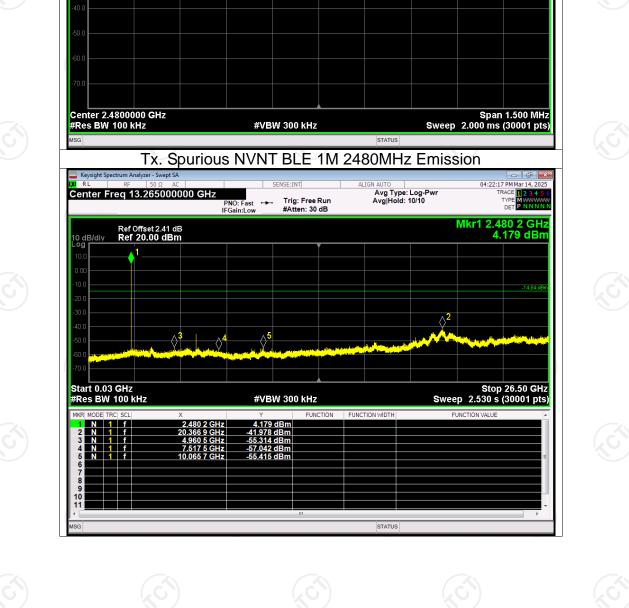
Report No.: TCT250314E010



Tx. Spurious NVNT BLE 1M 2440MHz Ref

Report No.: TCT250314E010

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 Keyight Spectrum Analyzer - Swept SA
 ALIGN Autro
 0-8/21/24 YW ard 14: 2020

 Center Freq 2.480000000 GHz
 Frig: Free Run (FGaint.low
 ALIGN Autro
 ALIGN Autro
 0-8/21/24 YW ard 14: 2020

 Ref Offset 2.41 dB 10 dE/dlv
 Ref 20.00 dBm
 Mkr1 2.480 2222 40 GHz 5.159 dBm

 0 dE/dlv
 Ref 20.00 dBm
 State
 Mkr1 2.480 222 40 GHz 5.159 dBm

 0 dE/dlv
 Ref 20.00 dBm
 State
 Mkr1 2.480 222 40 GHz 5.159 dBm

 0 dB/dlv
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 10 dB/dlv
 Ref 2.000 dBm
 State
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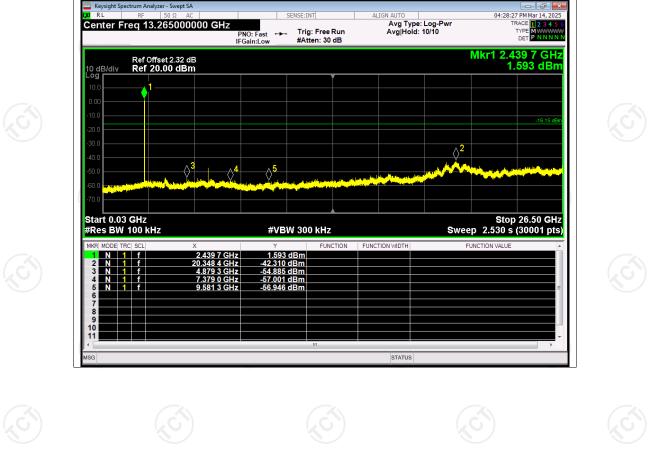
 20 dB
 State
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 20 dB
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Tx. Spurious NVNT BLE 1M 2480MHz Ref



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Mkr1 2.439 970 1 GHz 3.853 dBm Ref Offset 2.32 dB Ref 20.00 dBm 10 dB/div Loa ٠, Center 2.440000 GHz #Res BW 100 kHz Span 3.000 MHz Sweep 2.000 ms (30001 pts) #VBW 300 kHz

Tx. Spurious NVNT BLE 2M 2440MHz Emission

Tx. Spurious NVNT BLE 2M 2440MHz Ref

Trig: Free Run #Atten: 30 dB

PNO: Wide IFGain:Low

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Avg Type: Log-Pwr Avg|Hold: 1000/1000

STATUS

🔤 Keysight S

Center Freg 2.440000000 GHz

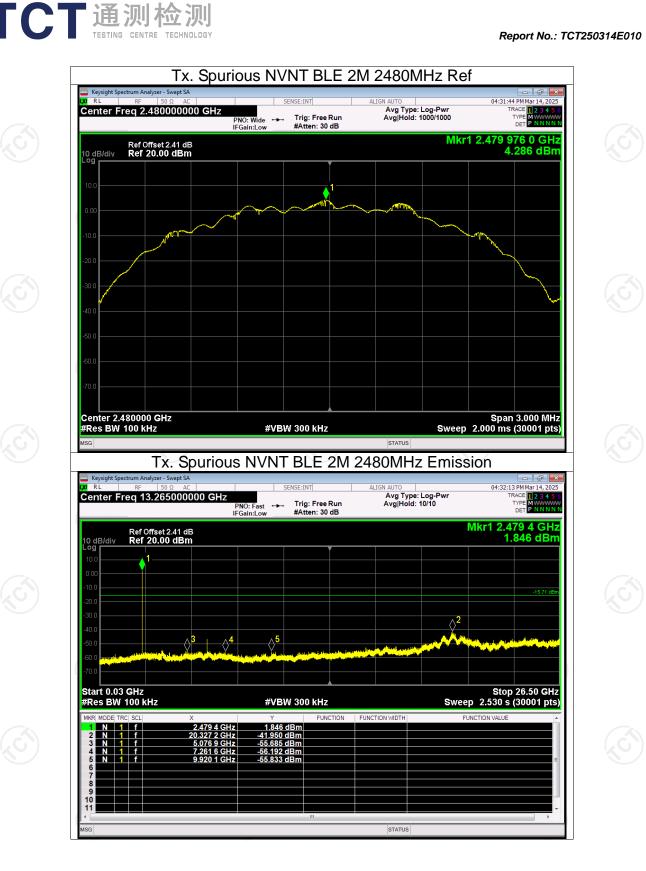
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Report No.: TCT250314E010

04:27:58 PM Mar 14, 2025 TRACE 1 2 3 4 5 (TYPE MWWWW DET P N N N N

TYPE



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