TCT通测检测 TESTING CENTRE TECHNOLOGY							
	TEST REPOR	Т					
FCC ID	2AAPK-WGDC001						
Test Report No:	TCT230712E003						
Date of issue:	Jul. 18, 2023						
Testing laboratory: :	SHENZHEN TONGCE TESTING	S LAB					
Testing location/ address:	2101 & 2201, Zhenchang Factor Subdistrict, Bao'an District, Shen People's Republic of China						
Applicant's name: :	Shenzhen Kingsun Enterprises C	Co., Ltd.					
Address:	25/F, CEC Information Building, 2 Guangdong 518034 China	Xinwen Rd., Shenzhen,					
Manufacturer's name :	Shenzhen Kingsun Enterprises C						
Address:	25/F, CEC Information Building, 2 Guangdong 518034 China	Xinwen Rd., Shenzhen,					
Standard(s):	FCC CFR Title 47 Part 15 Subpa FCC KDB 558074 D01 15.247 M ANSI C63.10:2013						
Product Name::	WIRELESS DISCO BALL LIGHT	UP SPEAKER					
Trade Mark:	N/A						
Model/Type reference :	OD-WGDC001, V60094BT, V600	094BT-BLK					
Rating(s):	Rechargeable Li-ion Battery DC	3.7V					
Date of receipt of test item	Jul. 12, 2023		S)				
Date (s) of performance of test:	Jul. 12, 2023 - Jul. 18, 2023						
Tested by (+signature) :	Yannie ZHONG	Yannie Zoomecs					
Check by (+signature) :	Beryl ZHAO						
Approved by (+signature):	oved by (+signature): Tomsin						
TONGCE TESTING LAB. TH	oduced except in full, without the his document may be altered or re ly, and shall be noted in the revisi apply to the tested sample.	evised by SHENZHEN	TONGCE				

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1. General Product Information

1.1. EUT description

Product Name:	WIRELESS DISCO BALL LIGHT UP SPEAKER	
Model/Type reference:	OD-WGDC001	
Sample Number:	TCT230712E003-0101	
Bluetooth Version:	V5.3	
Operation Frequency:	2402MHz~2480MHz	
Transfer Rate:	1/2/3 Mbits/s	
Number of Channel:	79	
Modulation Type:	GFSK, π/4-DQPSK, 8DPSK	
Modulation Technology:	FHSS	
Antenna Type:	PCB Antenna	
Antenna Gain:	-0.58dBi	S)
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	OD-WGDC001	\boxtimes
Other models	V60094BT, V60094BT-BLK	

Note: OD-WGDC001 is tested model, other models are derivative models. The models are identical in circuit and PCB layout, different on the model names. So the test data of OD-WGDC001 can represent the remaining models.

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1.3. Operation Frequency

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency	
0	2402MHz	20	2422MHz	40	2442MHz	60	2462MHz	
G`)1	2403MHz	21	2423MHz	41	2443MHz	61	2463MHz	
<u> </u>		·		·		<u> </u>		
10	2412MHz	30	2432MHz	50	2452MHz	70	2472MHz	
11	2413MHz	31	2433MHz	51	2453MHz	71	2473MHz	
	S		.		S		S	
18	2420MHz	38	2440MHz	58	2460MHz	78	2480MHz	
19	2421MHz	39	2441MHz	59	2461MHz		-	
	Remark: Channel 0, 39 & 78 have been tested for GFSK, π/4-DQPSK, 8DPSK							

Remark: Channel 0, 39 & 78 have been tested for GFSK, π/4-DQPSK, 8DPSK modulation mode.





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)(1)	PASS
20dB Occupied Bandwidth	§15.247 (a)(1)	PASS
Carrier Frequencies Separation	§15.247 (a)(1)	PASS
Hopping Channel Number	§15.247 (a)(1)	PASS
Dwell Time	§15.247 (a)(1)	PASS
Radiated Emission	§15.205/§15.209	PASS
Band Edge	§15.247(d)	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	Conducted Emission	Radiated Emission					
Temperature:	23.5 °C	25.3 °C					
Humidity:	52 % RH	55 % RH					
Atmospheric Pressure:	1010 mbar	1010 mbar					
Test Software:							
Software Information:	FCC Assist 1.0.2.2						
Power Level:	10						
Test Mode:							
Engineering mode:	Engineering mode: Keep the EUT in continuous transmitting by select channel and modulations with Fully-charged battery.						
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. DH1 DH3 DH5 all have been tested, only worse case DH1 is reported.							

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	1	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, 20dB Occupied Bandwidth, Carrier Frequencies Separation, Hopping Channel Number, Dwell Time, 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-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

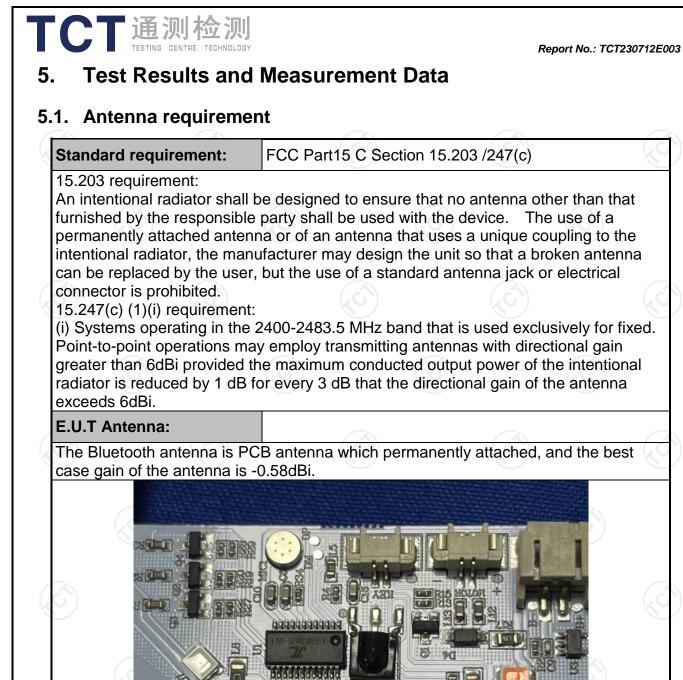
SHENZHEN TONGCE TESTING LAB

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 %.

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



Antenna



5.2. Conducted Emission

5.2.1. Test Specification

Test Requirement: Test Method:		15.207						
			FCC Part15 C Section 15.207					
	ANSI C63.10:2013							
Frequency Range:	150 kHz to 30 MHz							
Receiver setup:	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					
	Reference	e Plane						
Test Setup:	E.U.T AC powe Test table/Insulation plane Remarkc E.U.T: Equipment Under Test LISN: Line Impedence Stabilization Ne Test table height=0.8m	EMI Receiver	r AC power					
Test Mode:	Charging + Transmittin	ng Mode						
Test Procedure:	 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. 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). 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. 							
Test Result:	PASS	0						



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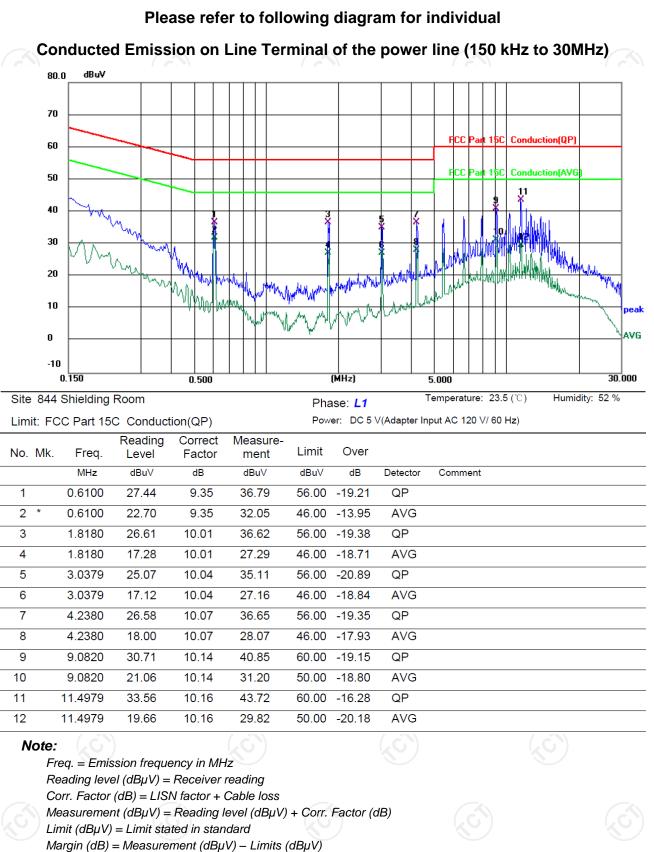
http://www.tct-lab.com

Fax: 86-755-27673332

5.2.2. Test Instruments

Conducted Emission Shielding Room Test Site (843)									
Equipment	Manufacturer	Model	Model Serial Number Calibration						
EMI Test Receiver R&S		ESCI3	100898	Jun. 29, 2024					
Line Impedance Stabilisation Newtork(LISN)	Stabilisation Schwarzbeck		8126453	Feb. 20, 2024					
Line-5	ТСТ	CE-05	/	Jul. 03, 2024					
EMI Test Software	Shurple Technology	EZ-EMC	1	1 6					

5.2.3. Test data

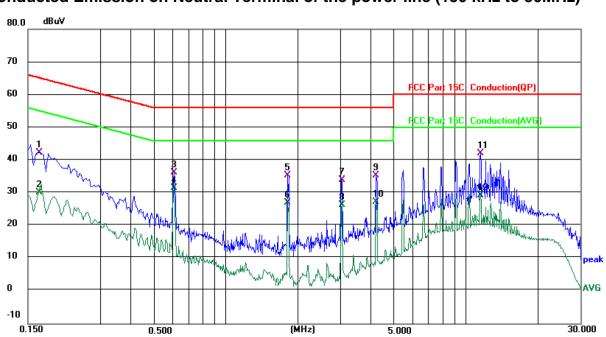


AVG =average

Q.P. =Quasi-Peak

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

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Conducted Emission on Neutral Terminal of the power line (150 kHz to 30MHz)

Site 844 Shielding Room

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Limit: FCC Part 15C Conduction(QP)

Phase: N Temperature: 23.5 (C Power: DC 5 V(Adapter Input AC 120 V/ 60 Hz)

Temperature: 23.5 (°C)

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1660	32.28	10.11	42.39	65.16	-22.77	QP	
2		0.1660	20.14	10.11	30.25	55.16	-24.91	AVG	
3		0.6100	26.94	9.36	36.30	56.00	-19.70	QP	
4	*	0.6100	22.19	9.36	31.55	46.00	-14.45	AVG	
5		1.8180	25.42	10.02	35.44	56.00	-20.56	QP	
6		1.8180	16.95	10.02	26.97	46.00	-19.03	AVG	
7		3.0380	23.89	10.05	33.94	56.00	-22.06	QP	
8		3.0380	16.22	10.05	26.27	46.00	-19.73	AVG	
9		4.2380	25.28	10.09	35.37	56.00	-20.63	QP	
10		4.2380	17.05	10.09	27.14	46.00	-18.86	AVG	
11		11.5060	31.95	10.21	42.16	60.00	-17.84	QP	
12		11.5060	18.99	10.21	29.20	50.00	-20.80	AVG	

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 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.

Note2:

Measurements were conducted in all three channels (high, middle, low) and three modulation (GFSK, Pi/4 DQPSK, 8DPSK), and the worst case Mode (Lowest channel and 8DPSK) was submitted only.

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Humidity: 52 %



5.3. Conducted Output Power

5.3.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (b)(1)		
Test Method:	KDB 558074 D01 v05r02		
Limit:	Section 15.247 (b) The maximum peak conducted output power of the intentional radiator shall not exceed the following: (1) For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400-2483.5 MHz band 0.125 watts.		
Test Setup:	Spectrum Analyzer EUT		
Test Mode:	Transmitting mode with modulation		
Test Procedure:	Use the following spectrum analyzer settings: Span = approximately 5 times the 20 dB bandwidth centered on a hopping channel RBW > the 20 dB bandwidth of the emission being measured VBW ≥ RBW Sweep = auto Detector function = peak Trace = max hold Allow the trace to stabilize. Use the marker-to-peak function to set the marker to the peak of the emission.		
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	\mathbf{S} \mathbf{I}	





5.4. 20dB Occupy Bandwidth

5.4.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (a)(1)			
· ·				
Test Method:	KDB 558074 D01 v05r02			
Limit:	N/A			
Test Setup:	Spectrum Analyzer EUT			
Test Mode:	Transmitting mode with modulation			
Test Procedure:	 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. Set to the maximum power setting and enable the EUT transmit continuously. Use the following spectrum analyzer settings for 20dB Bandwidth measurement. Span = approximately 2 to 5 times the 20 dB bandwidth, centered on a hopping channel; 1%≤RBW≤5% of the 20 dB bandwidth; VBW≥3RBW; Sweep = auto; Detector function = peak; Trace = max hold. 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. 28, 2024
Combiner Box	Ascentest	AT890-RFB	/	/



5.5. Carrier Frequencies Separation

5.5.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (a)(1)
Test Method:	KDB 558074 D01 v05r02
Limit:	Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW.
Test Setup:	Spectrum Analyzer EUT
Test Mode:	Hopping mode
Test Procedure:	 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. Set to the maximum power setting and enable the EUT transmit continuously. Enable the EUT hopping function. Use the following spectrum analyzer settings: Span = wide enough to capture the peaks of two adjacent channels; RBW is set to approximately 30% of the channel spacing, adjust as necessary to best identify the center of each individual channel; VBW≥RBW; Sweep = auto; Detector function = peak; Trace = max hold. Use the marker-delta function to determine the separation between the peaks of the adjacent channels. Record the value in report.
Test Result:	PASS

5.5.2. Test Instruments

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

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5.6. Hopping Channel Number

5.6.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (a)(1)		
Test Method:	KDB 558074 D01 v05r02		
Limit:	Frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels.		
Test Setup:	Spectrum Analyzer EUT		
Test Mode:	Hopping mode		
Test Procedure:	 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. Set to the maximum power setting and enable the EUT transmit continuously. Enable the EUT hopping function. Use the following spectrum analyzer settings: Span = the frequency band of operation; set the RBW to less than 30% of the channel spacing or the 20 dB bandwidth, whichever is smaller; VBW≥RBW; Sweep = auto; Detector function = peak; Trace = max hold. The number of hopping frequency used is defined as the number of total channel. Record the measurement data in report. 		
Test Result:	PASS		

5.6.2. Test Instruments

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

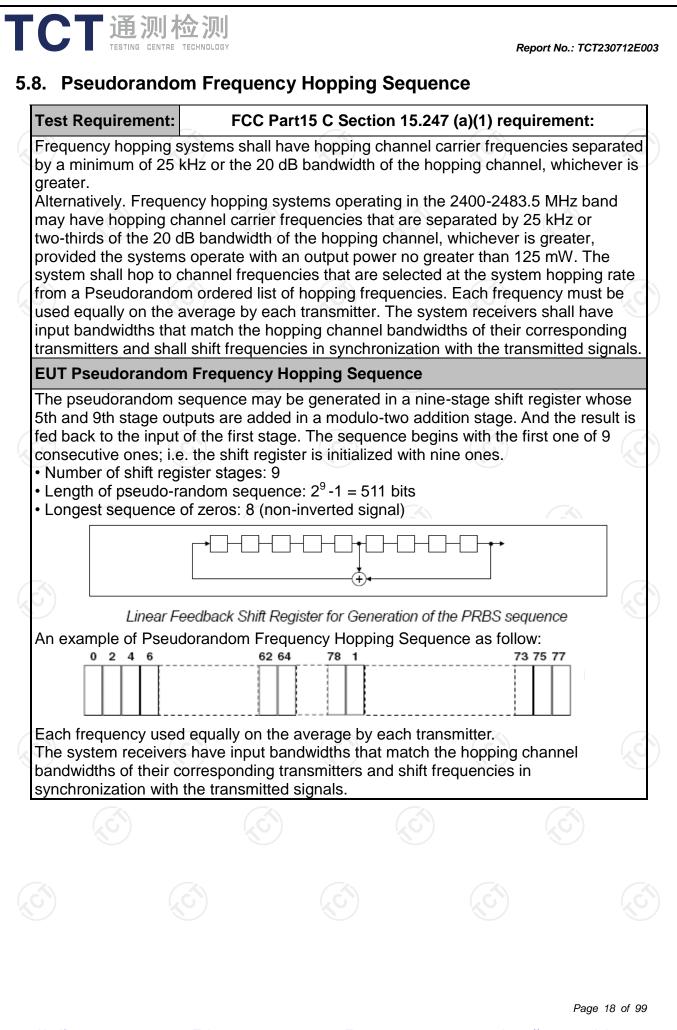
5.7. Dwell Time

5.7.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (a)(1)
Test Method:	KDB 558074 D01 v05r02
Limit:	The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed.
Test Setup:	Spectrum Analyzer EUT
Test Mode:	Hopping mode
Test Procedure:	 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. Set to the maximum power setting and enable the EUT transmit continuously. Enable the EUT hopping function. Use the following spectrum analyzer settings: Span = zero span, centered on a hopping channel; RBW shall be ≤ channel spacing and where possible RBW should be set >> 1 / T, where T is the expected dwell time per channel; VBW≥RBW; Sweep = as necessary to capture the entire dwell time per hopping channel; Detector function = peak; Trace = max hold. Measure and record the results in the test report.
Test Result:	PASS

5.7.2. Test Instruments

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





5.9. Conducted Band Edge Measurement

5.9.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (d)			
Test Method:	KDB 558074 D01 v05r02			
Limit:	In any 100 kHz bandwidth outside the intentional radiation frequency band, the radio frequency power shall be at least 20 dB below the highest level of the radiated power. In addition, radiated emissions which fa in the restricted bands must also comply with the radiated emission limits.			
Test Setup:	Spectrum Analyzer EUT			
Test Mode:	Transmitting mode with modulation			
Test Procedure:	 Set to the maximum power setting and enable the EUT transmit continuously. Set RBW = 100 kHz (≥1% span=10MHz), VBW = 30 kHz (≥RBW). Band edge emissions must be at leas 20 dB down from the highest emission level within the authorized band as measured with a 100kHz RBW. The attenuation shall be 30 dB instead of 20 dB when RMS conducted output power procedure is used. Enable hopping function of the EUT and then repeat step 2 and 3. Measure and record the results in the test report. 			
Test Result:	PASS			

5.9.2. Test Instruments

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



5.10. Conducted Spurious Emission Measurement

5.10.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (d)
Test Method:	KDB 558074 D01 v05r02
Limit:	In any 100 kHz bandwidth outside the intentional radiation frequency band, the radio frequency power shall be at least 20 dB below the highest level of the radiated power. In addition, radiated emissions which fall in the restricted bands must also comply with the radiated emission limits.
Test Setup:	Spectrum Analyzer EUT
Test Mode:	Transmitting mode with modulation
Test Procedure:	 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. Set to the maximum power setting and enable the EUT transmit continuously. Set RBW = 100 kHz, VBW = 300kHz, scan up through 10th harmonic. All harmonics / spurs must be at least 20 dB down from the highest emission level within the authorized band as measured with a 100 kHz RBW. Measure and record the results in the test report. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
Test Result:	PASS

5.10.2. Test Instruments

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

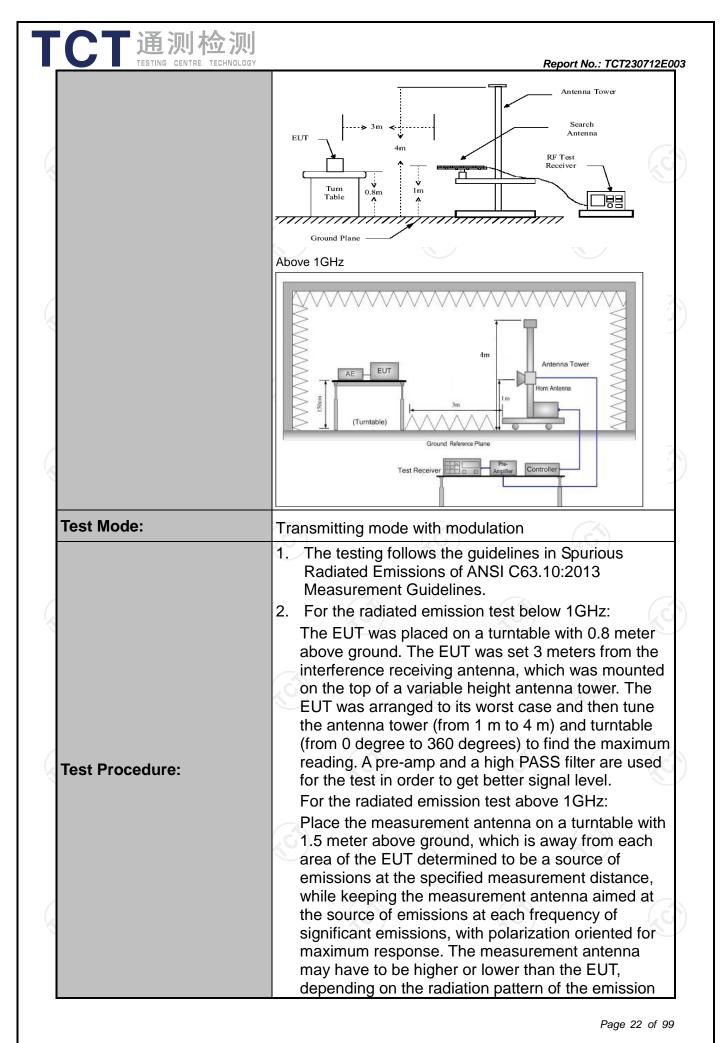


5.11. Radiated Spurious Emission Measurement

5.11.1. Test Specification

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FrequencyDe9kHz- 150kHzQua150kHz-Qua30MHz30MHz		RBW 200Hz		(Č)				
Measurement Distance: 3 m Antenna Polarization: Horizontal & Vertical	tector si-peak			(C)				
Antenna Polarization: Horizontal & Vertical & Vertica	tector si-peak			R.)				
Frequency De 9kHz- 150kHz Qua 150kHz- Qua 30MHz 30MHz	tector si-peak								
9kHz- 150kHzQua9kHz- 150kHzQua150kHz-Qua30MHz30MHz	si-peak			Horizontal & Vertical					
Receiver Setup:150kHz- 30MHzQua		2004-2	VBW		Remark				
Receiver Setup: 30MHz	si-peak		1kHz		i-peak Value				
30MHz-1GHz Qua		9kHz	30kHz	Quas	i-peak Value				
	si-peak		300KHz		i-peak Value				
II Above 1(Hz	Peak	1MHz	3MHz		ak Value				
Finder of the first of the firs	Peak 🗡	1MHz	10Hz	Ave	rage Value				
_		Field Stre	ength	Mea	asurement				
Frequency		(microvolts	-		nce (meters				
0.009-0.490		2400/F(ł	(Hz)		300				
0.490-1.705		24000/F(KHz)		30				
1.705-30		30			30				
30-88			100 <u>3</u> 150 <u>3</u>						
	216-960 2 Above 960 2			3					
Frequency Above 1GHz	(microv	Strength volts/meter) 500 5000	Distan (meter 3 3		Detector Average Peak				
Test setup:	3m			Compute					
		Q	C)						
					Page 21 of				



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	rece mea max ante rest abo 3. Set EU 4. Use (1) (2)	= max ho B) For avera	aximum si antenna ele emissions ion for max ange of he ind or refer ximum pov continuous ing spectru wide enou being meas 120 kHz fo z ; VBW≥R auto; Dete ld for peak ing emeasur factor me	emission s gnal. The evation sha The meas kimum emi- eights of fro- ence grou wer setting ly. um analyze ugh to fully sured; or f < 1 GH BW; ector function rement: us thod per	final all be that surement issions sha om 1 m to nd plane. g and enal er settings: capture the lz, RBW=1 on = peak se duty cyce 100 millise	which all be 4 m ble th : ne 1MHz ; Trac
	Ś	Where N length of Average Level + 2 Corrected	•	er of type 1 ses, etc. .evel = Pea cycle) Antenna Fa	pulses, L ak Emissic actor + Ca	⊦Nn*L 1 is on ble
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est results:	PASS	Where N length of Average Level + 2 Corrected	1 is numbe type 1 puls Emission L 0*log(Duty Reading: <i>I</i>	er of type 1 ses, etc. .evel = Pea cycle) Antenna Fa	pulses, L ak Emissic actor + Ca	⊦Nn*L 1 is on ble
est results:	PASS	Where N length of Average Level + 2 Corrected	1 is numbe type 1 puls Emission L 0*log(Duty Reading: <i>I</i>	er of type 1 ses, etc. .evel = Pea cycle) Antenna Fa	pulses, L ak Emissic actor + Ca	⊦Nn*L 1 is on ble
est results:	PASS	Where N length of Average Level + 2 Corrected	1 is numbe type 1 puls Emission L 0*log(Duty Reading: <i>I</i>	er of type 1 ses, etc. .evel = Pea cycle) Antenna Fa	pulses, L ak Emissic actor + Ca	⊦Nn*L 1 is on ble



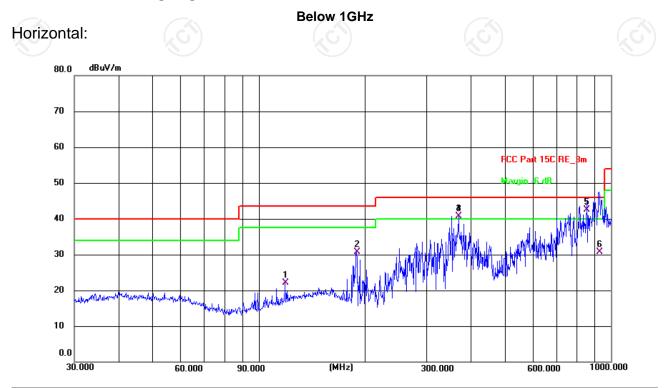
5.11.2. Test Instruments

	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	/	Feb. 24, 2024
EMI Test Software	Shurple Technology	EZ-EMC		1

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5.11.3. Test Data

Please refer to following diagram for individual



Site #2 3m Anechoic Chamber Polarization: Horizontal Temperature: 25.3(C) Humidity: 55 %

Limit: FCC Part 15C RE_3m

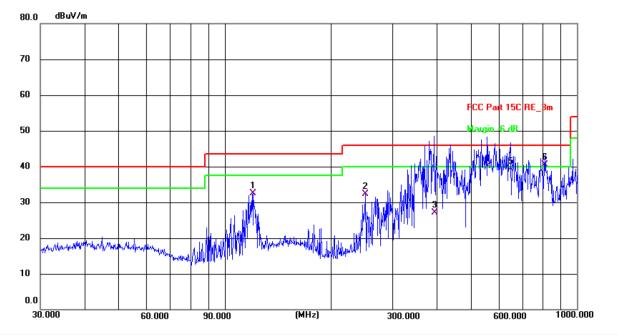
Power: DC 3.7 V

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	119.0180	9.16	12.87	22.03	43.50	-21.47	QP	Р	
2	189.7385	19.27	11.52	30.79	43.50	-12.71	QP	Р	
3!	369.4047	24.28	16.45	40.73	46.00	-5.27	QP	Р	
4 !	369.4047	24.28	16.45	40.73	46.00	-5.27	QP	Р	
5 *	854.0247	18.03	24.56	42.59	46.00	-3.41	QP	Р	
6	925.7563	4.74	26.01	30.75	46.00	-15.25	QP	Ρ	

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Vertical:



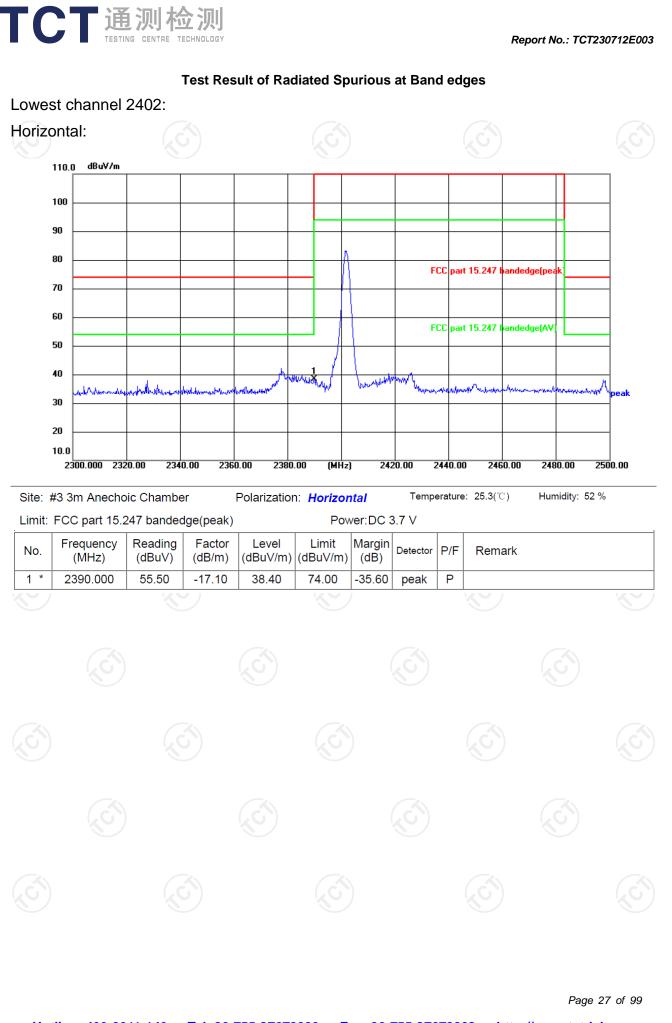
Site #2 3m Anechoic ChamberPolarization:VerticalTemperature: 25.3(C)Humidity: 55 %

Limit:	FCC Part 15C F	RE_3m			P	Power: DC 3.7 V			
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	120.6991	19.42	13.05	32.47	43.50	-11.03	QP	Р	
2	251.1804	19.27	13.10	32.37	46.00	-13.63	QP	Р	
3	394.7024	10.29	16.83	27.12	46.00	-18.88	QP	Р	
4 !	556.7744	19.73	20.47	40.20	46.00	-5.80	QP	Р	
5	647.3856	16.72	22.53	39.25	46.00	-6.75	QP	Р	
6 *	813.1115	16.36	24.14	40.50	46.00	-5.50	QP	Р	

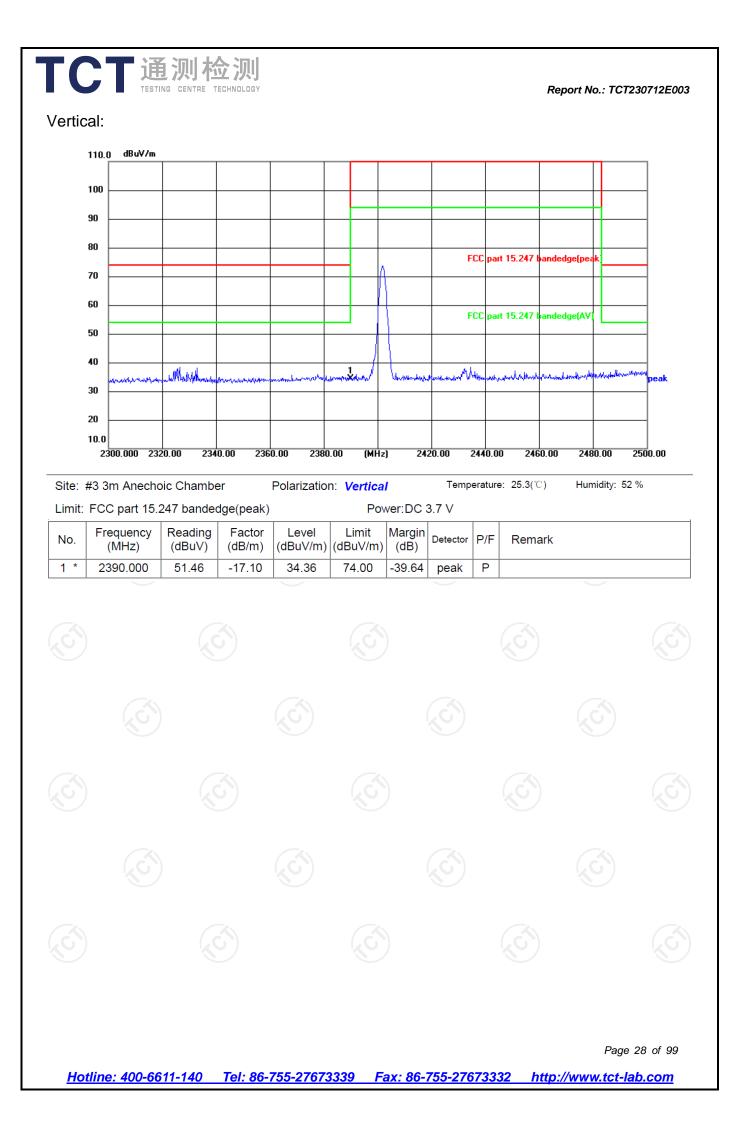
Note: 1. The low frequency, which started from 9KHz~30MHz, was pre-scanned and the result which was 20dB lower than the limit line per 15.31(o) was not reported.

- 2. Measurements were conducted in all three channels (high, middle, low) and three modulation (GFSK, Pi/4 DQPSK, 8DPSK) and the worst case Mode (Lowest channel and 8DPSK) was submitted only.
- 3. Freq. = Emission frequency in MHz
 - Measurement $(dB\mu V/m) = Reading level (dB\mu V) + Corr. Factor (dB) Correction Factor= Antenna Factor + Cable loss Pre-amplifier Limit (dB\mu V/m) = Limit stated in standard$
 - Over $(dB) = Measurement (dB\mu V/m) Limits (dB\mu V/m)$
 - * is meaning the worst frequency has been tested in the test frequency range.

Report No.: TCT230712E003



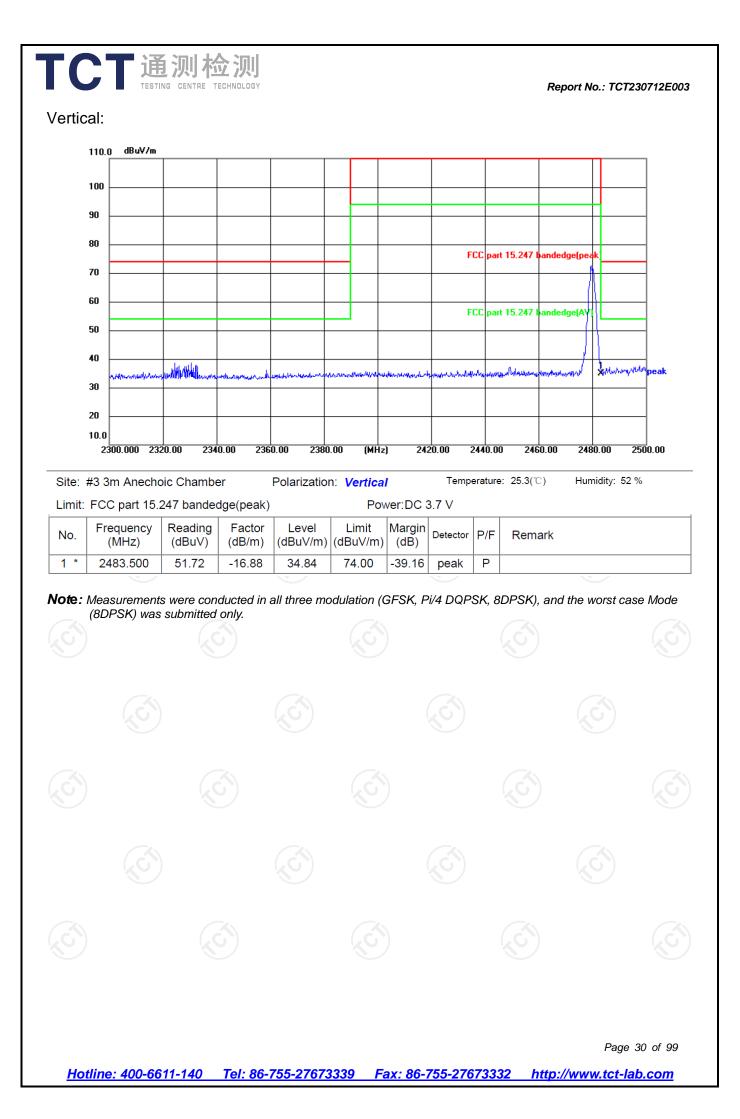
Hotline: 400-6611-140 Tel: 86-755-27673339 Fax: 86-755-27673332 http://www.tct-lab.com



Report No.: TCT230712E003 Highest channel 2480: Horizontal: 110.0 dBu∀/m 100 90 80 FCC part 15.247 bandedge(pea 70 60 part 15.247 bandedge(AV FCC 50 ¥ 40 LAUN We have 644 30 20 10.0 2300.000 2320.00 2340.00 2360.00 2380.00 (MHz) 2420.00 2440.00 2460.00 2480.00 2500.00 Humidity: 52 % Site: #3 3m Anechoic Chamber Temperature: 25.3(℃) Polarization: Horizontal Power: DC 3.7 V Limit: FCC part 15.247 bandedge(peak)

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector	P/F	Remark
1 *	2483.500	62.11	-16.88	45.23	74.00	-28.77	peak	Ρ	





Above 1GHz

Modulation	Type: 8D	PSK									
Low channel: 2402 MHz											
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBuV)	Correction Factor (dB/m)	Peak	n Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)		
4804	Н	46.28		0.66	46.94		74	54	-7.06		
7206	Н	37.51		9.50	47.01		74	54	-6.99		
	Н					~~~~					
(<u> </u>		J.J) 		· C`)		(G)			
4804	V	45.93		0.66	46.59		74	54	-7.41		
7206	V	35.07		9.50	44.57		74	54	-9.43		
	V										

Middle cha	nnel: 2441	MHz))				1 X
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)	Peak		Peak limit (dBµV/m)		Margin (dB)
4882	Н	45.35		0.99	46.34	<u> </u>	74	54	-7.66
7323	XOH)	35.80	-140	9.87	45.67	01	74	54	-8.33
	H					<u> </u>			
4882	V	47.64		0.99	48.63		74	54	-5.37
7323	V	36.12		9.87	45.99		74	54	-8.01
/	V			'S'	/				

High channel: 2480 MHz

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Frequency	Ant Pol	Peak	AV	Correction	Emissic	on Level	Peak limit	AV/ limit	Margin
(MHz)	H/V	reading	reading	Factor	Peak	AV	(dBuV/m)	(dBµV/m)	(dB)
(11112)	11/ 1	(dBµV)	(dBµV)	(dB/m)	(dBµV/m)	(dBµV/m)		(abp v/m)	. ,
4960	Н	45.49		1.33	46.82		74	54	-7.18
7440	Н	35.71		10.22	45.93		74	54	-8.07
	Н								
GN)		(.G)					(.c.)		(.G
4960	V	43.53		1.33	44.86		74	54	-9.14
7440	V	34.87		10.22	45.09		74	54	-8.91
	V								

Note:

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

2. Margin (dB) = Emission Level (Peak) (dB μ V/m)-Average limit (dB μ 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. Measurements were conducted in all three modulation (GFSK, Pi/4 DQPSK, 8DPSK), and the worst case Mode (8DPSK) was submitted only.

7. 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	1-DH1	2402	-1.58	30	Pass						
NVNT	1-DH1	2441	-2.70	30	Pass						
NVNT	1-DH1	2480	-2.07	30	Pass						
NVNT	2-DH1	2402	-0.73	21	Pass						
NVNT	2-DH1	2441	-1.77	21	Pass						
NVNT	2-DH1	2480	-1.10	21	Pass						
NVNT	3-DH1	2402	-0.18	21	Pass						
NVNT 🔇	3-DH1	2441 🚫	-1.17	21	Pass						
NVNT	3-DH1	2480	-0.50	21	Pass						









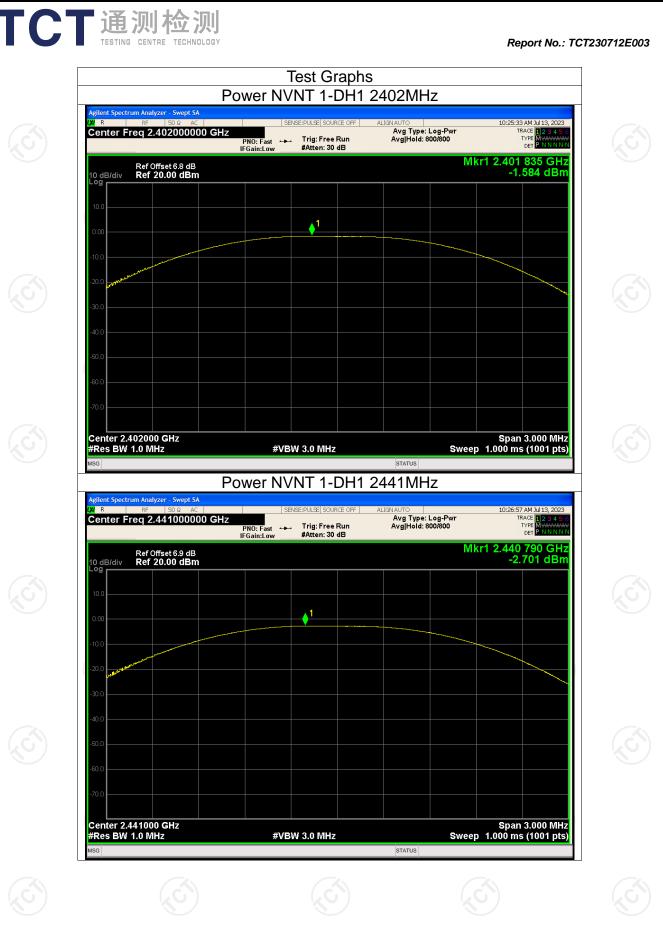


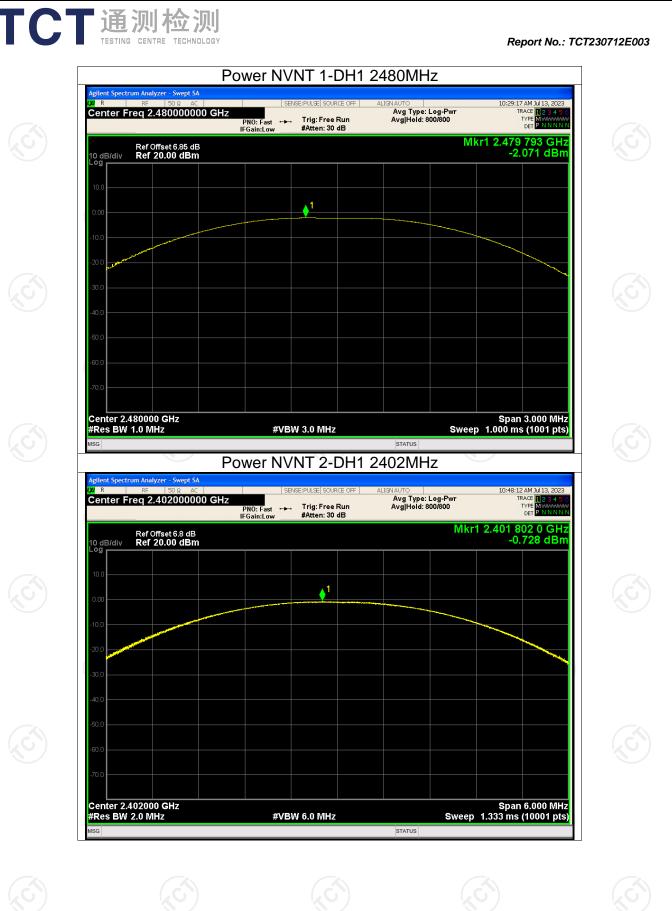




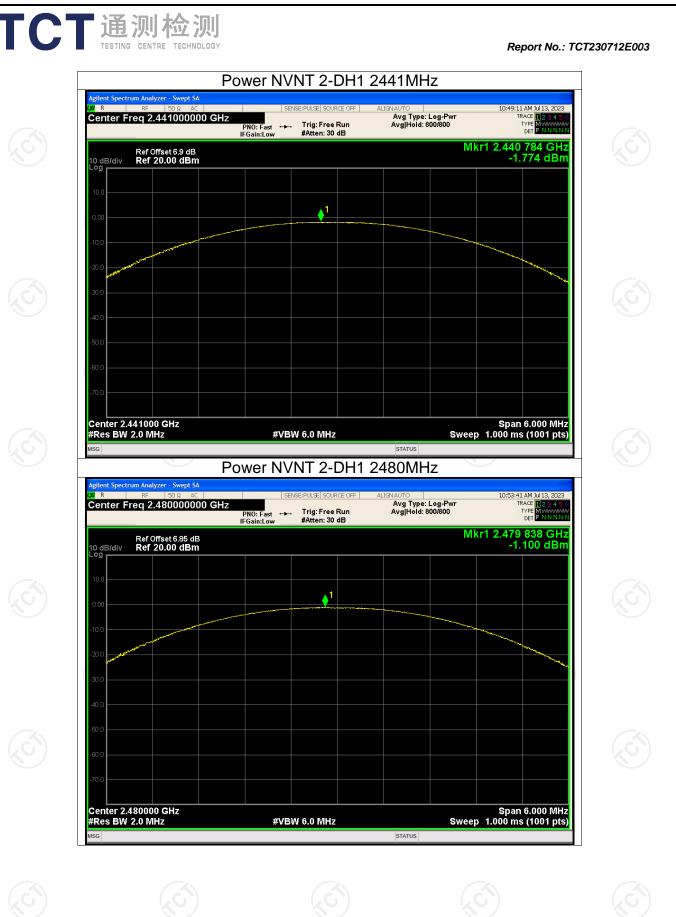


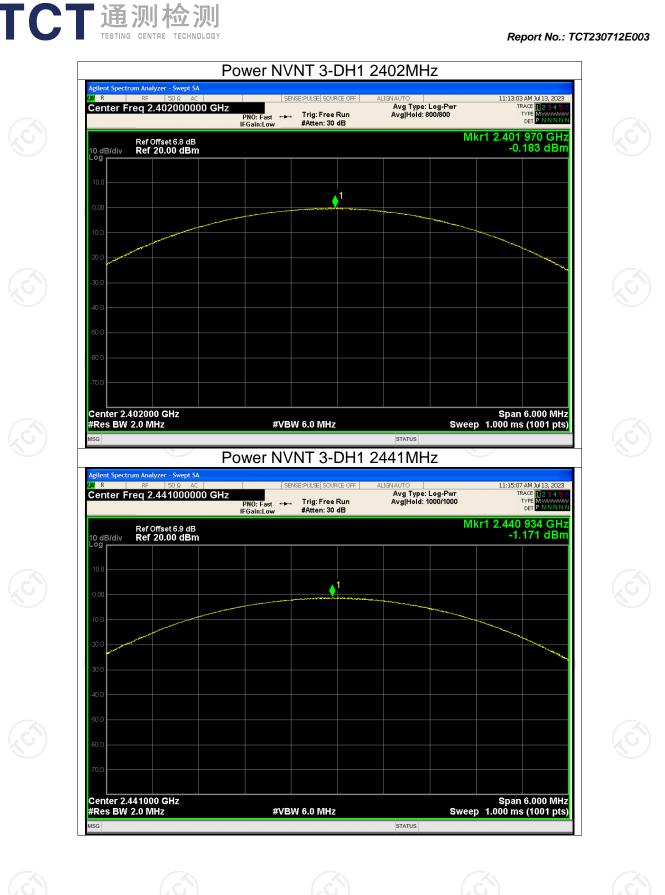
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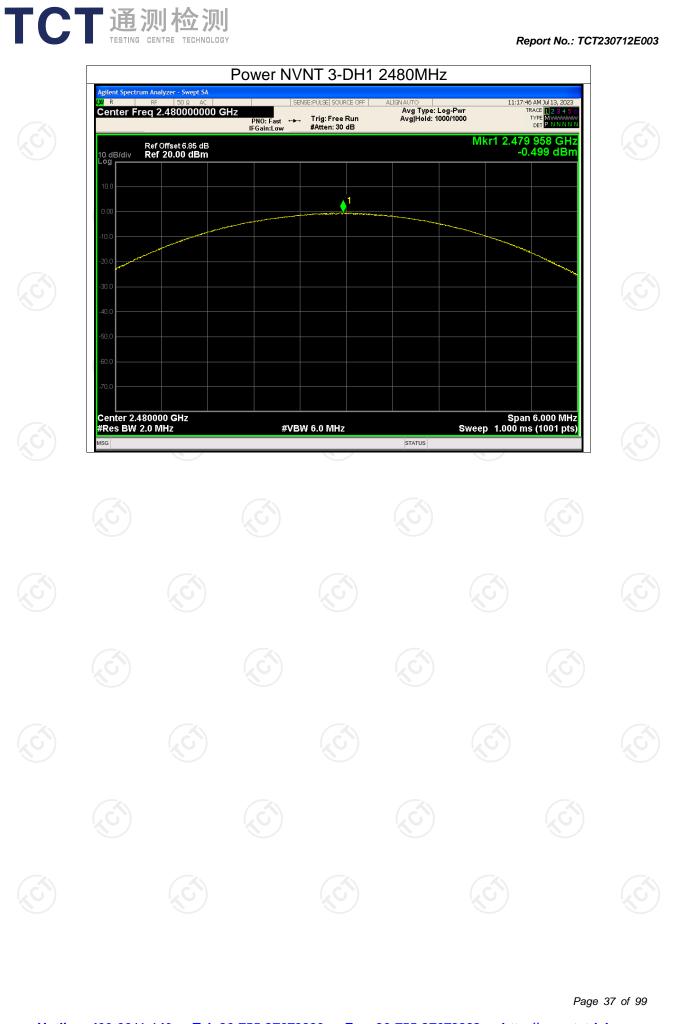
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Condition	Mode	Frequency (MHz)	-20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH1	2402	0.880	Pass
NVNT 🚫	1-DH1	2441	0.870	Pass
NVNT	1-DH1	2480	0.879	Pass
NVNT	2-DH1	2402	1.253	Pass
NVNT	2-DH1	2441	1.254	Pass
NVNT	2-DH1	2480	1.256	Pass
NVNT	3-DH1	2402	1.220	Pass
NVNT	3-DH1	2441	1.222	Pass
NVNT	3-DH1	2480	1.222	Pass
X)		KO)	





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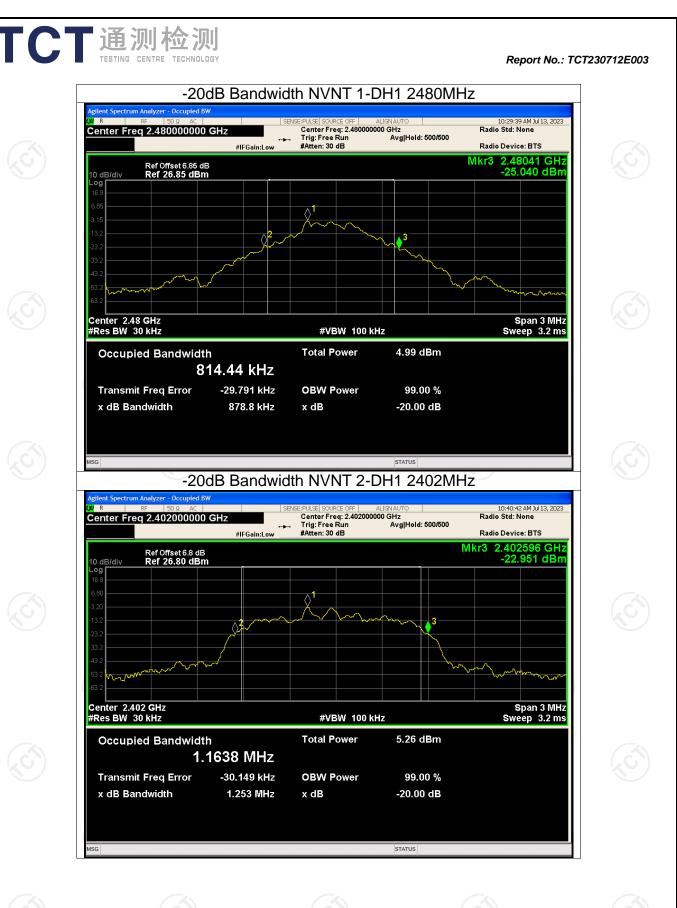


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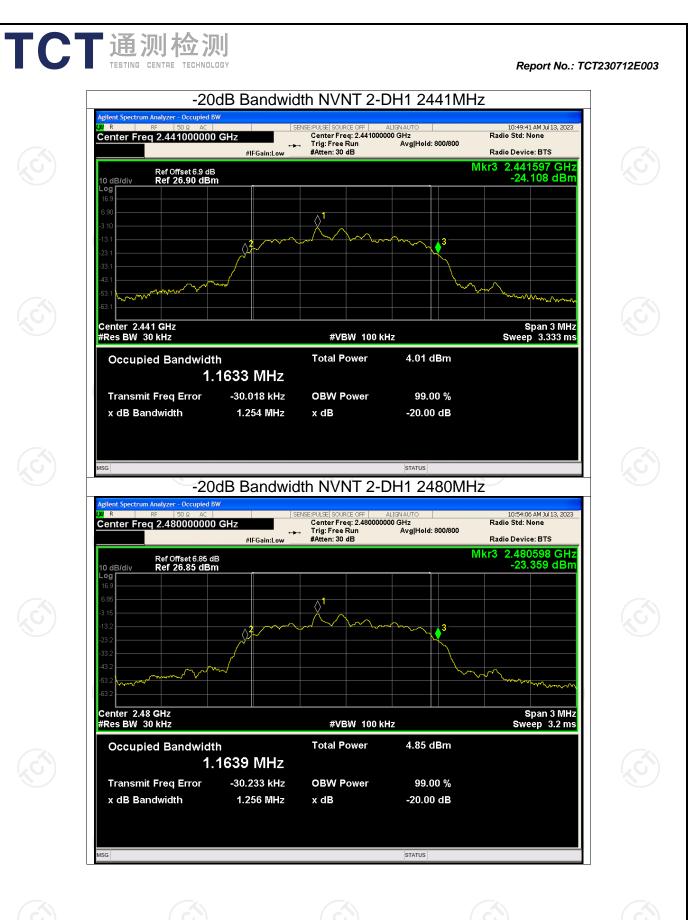


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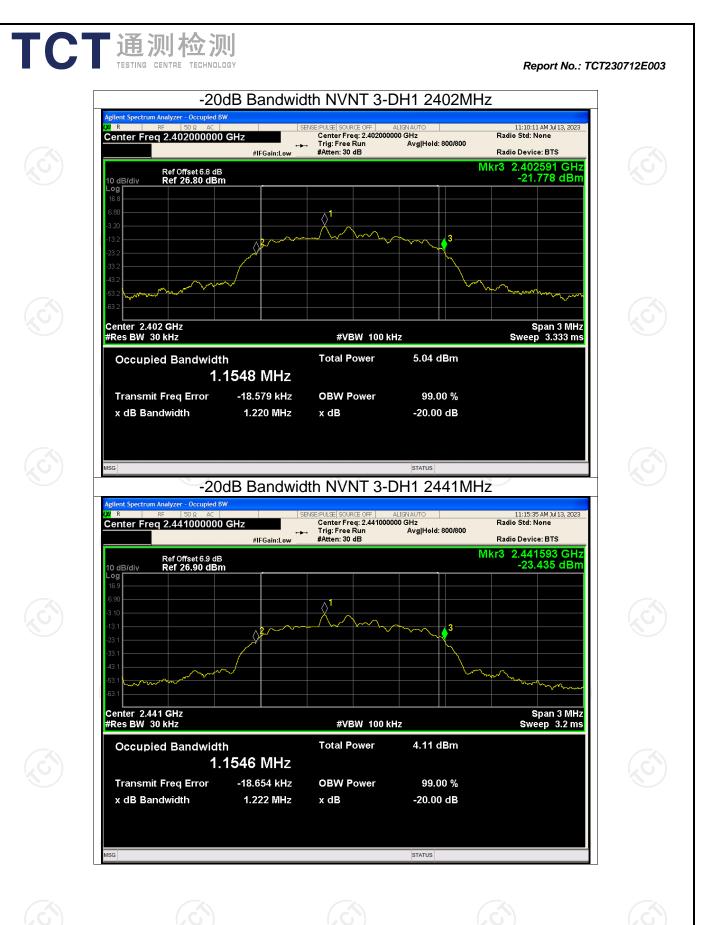
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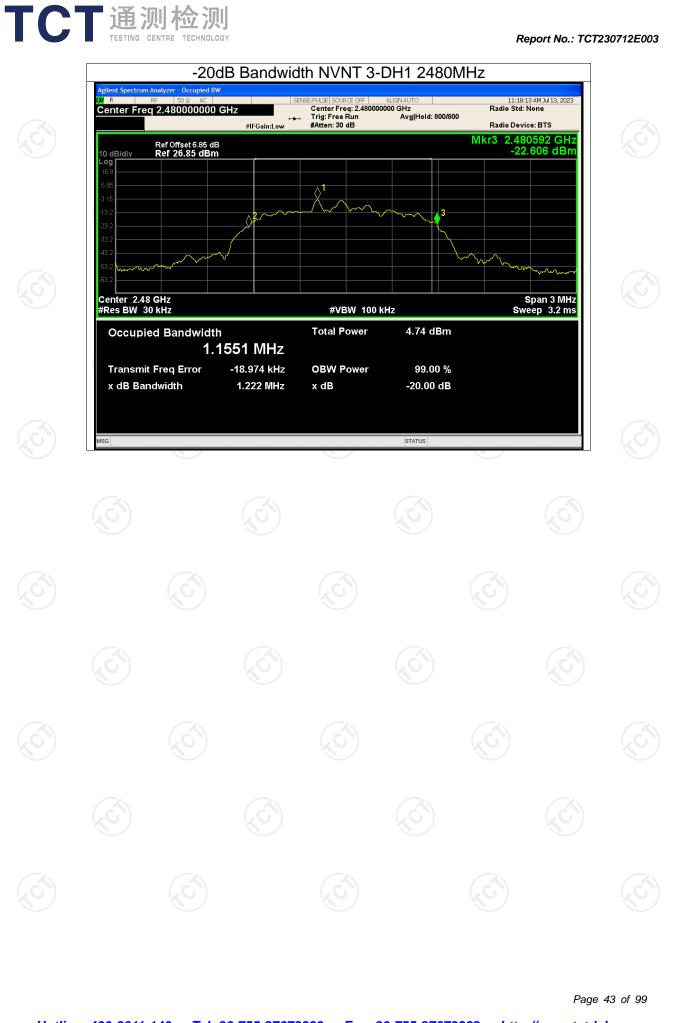






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Condition	Mode	(MHz)	(MHz)	(MHz)	(MHz)	Verdict
NVNT	1-DH1	2401.814	2402.818	1.004	0.880	Pass
NVNT	1-DH1	2440.814	2441.818	1.004	0.880	Pass
NVNT	1-DH1	2478.818	2479.820	1.002	0.880	Pass
NVNT	2-DH1	2401.816	2402.818	1.002	0.837	Pass
NVNT	2-DH1	2440.814	2441.816	1.002	0.837	Pass
NVNT 🐇	2-DH1	2478.816	2479.818	1.002	0.837	Pass
NVNT	3-DH1	2401.816	2402.814	0.998	0.815	Pass
NVNT	3-DH1	2440.814	2441.814	1.000	0.815	Pass
NVNT	3-DH1	2478.816	2479.816	1.000	0.815	Pass

Carrier Frequencies Separation Hopping Freq1 Hopping Freq2 HFS

Report No.: TCT230712E003

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1 ⊘<mark>2</mark> Span 2.000 MHz Sweep 1.000 ms (1001 pts) Center 2.402500 GHz #Res BW 100 kHz #VBW 300 kHz FUNCTION FUNCTION WIDTH 2.401 814 GHz 2.402 818 GHz N 1 f N 1 f -1.696 dBm -1.715 dBm STATUS CFS NVNT 1-DH1 2441MHz ent Spectrum Analyzer - Swept SA SENSE:PULSE SOURCE OFF Center Freq 2.441500000 GHz Avg Type: Log-Pwr Avg|Hold:>100/100 PNO: Wide Trig: Free Run IFGain:Low #Atten: 30 dB

Test Graphs CFS NVNT 1-DH1 2402MHz

ENSE:PULSE SOURCE OFF

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

Avg Type: Log-Pwi Avg|Hold>100/100

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2 3

UR

ım Analyzer - Swept SA

Ref Offset 6.8 dB Ref 25.00 dBm

Center Freq 2.402500000 GHz

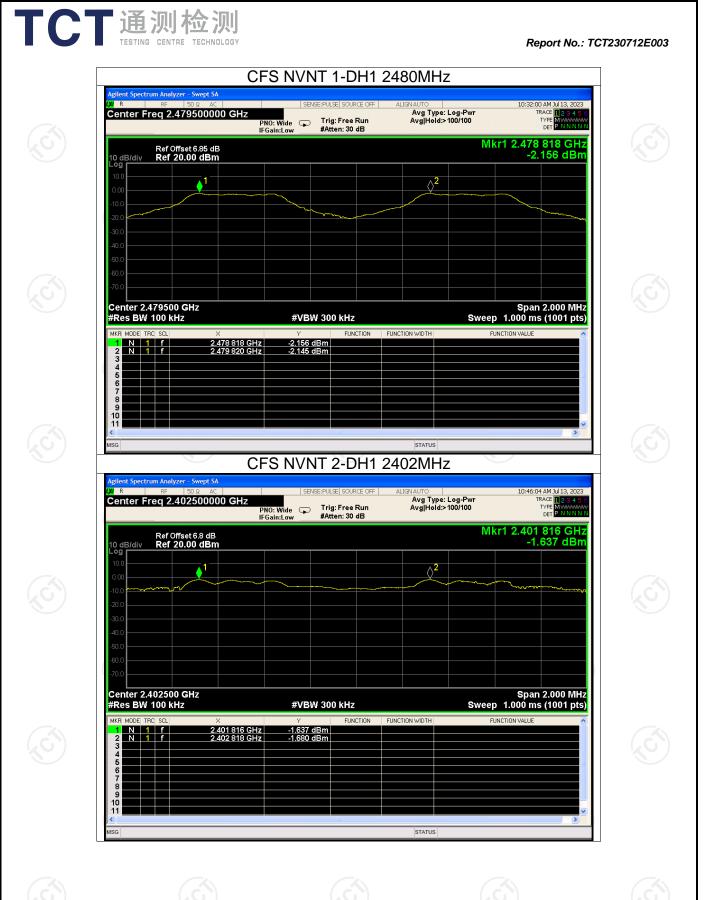
10:28:34 AM Jul 13, 2023 TRACE 1 2 3 4 5 6 TYPE MWWWWW DET P N N N N N Mkr1 2.440 814 GHz -2.788 dBm Ref Offset 6.9 dB Ref 25.00 dBm 10 dB/div Log 1 **⊘**² m Center 2.441500 GHz #Res BW 100 kHz Span 2.000 MHz Sweep 1.000 ms (1001 pts) #VBW 300 kHz FUNCTION WIDTH FUNCTION FUNCTION VALUE -2.788 dBm -2.819 dBm N 1 f N 1 f 2.440 814 GHz 2.441 818 GHz 5 6 7 8 9 10 11 STATUS

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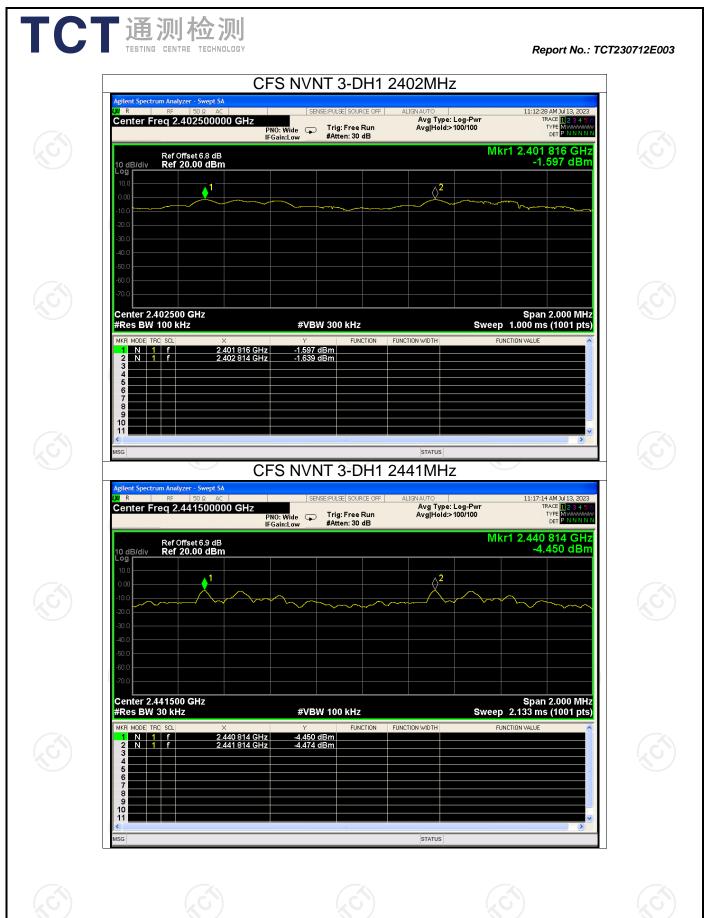
58 AM Jul 13, 2023 TRACE 1 2 3 4 5 TYPE MWWWW DET P N N N N

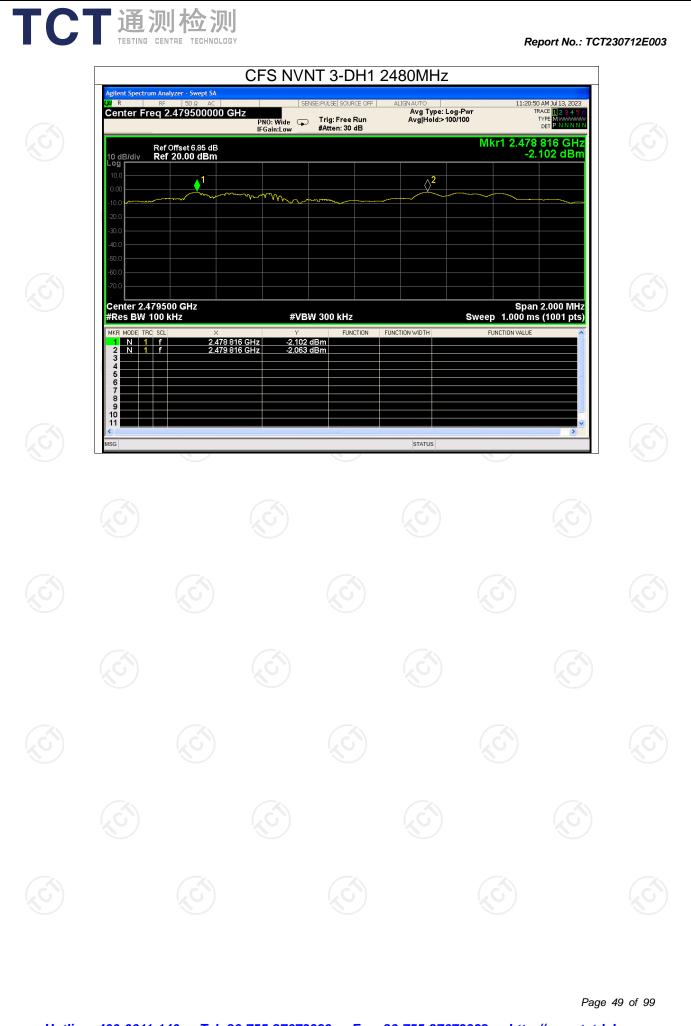
Mkr1 2.401 814 GHz -1.696 dBm



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Condition	Mode	Frequency (MHz)	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	No-Hopping	-46.66	-20	Pass
NVNT	1-DH1	2480	No-Hopping	-44.67	-20	Pass
NVNT	2-DH1	2402	No-Hopping	-46.24	-20	Pass
NVNT	2-DH1	2480	No-Hopping	-44.04	-20	Pass
NVNT	3-DH1	2402	No-Hopping	-47.03	-20	Pass
NVNT 🖔	3-DH1	2480	No-Hopping	-45.05	-20	Pass

	TESTING GEN	TRE TECHNOLOGY			Report No.: TC	1230
			Band Edge			
Condition	Mode	Frequency (MHz)	Hopping Mode	Max Value (dBc)	Limit (dBc)	Ve
NVNT	1-DH1	2402	No-Hopping	-46.66	-20	
NVNT	1-DH1	2480	No-Hopping	-44.67	-20	
NVNT	2-DH1	2402	No-Hopping	-46.24	-20	

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	TESTING CENTRE TECHNOLOGY

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Test Graphs Band Edge NVNT 1-DH1 2402MHz No-Hopping Ref im Analı ULSE SOURCE OFF TRACE TYPE DET Center Freq 2.402000000 GHz Avg Type: Log-Pwr Avg|Hold: 2000/2000 PNO: Wide 🔸 Trig: Free Run IFGain:Low #Atten: 30 dB Mkr1 2.401 824 GHz -1.633 dBm Ref Offset 6.8 dB Ref 26.80 dBm ▲1 ww ~~~ ſ

U R

10 dB/div Log

Center 2.402000 GHz #Res BW 100 kHz Span 8.000 MHz Sweep 1.000 ms (1001 pts) #VBW 300 kHz STATUS

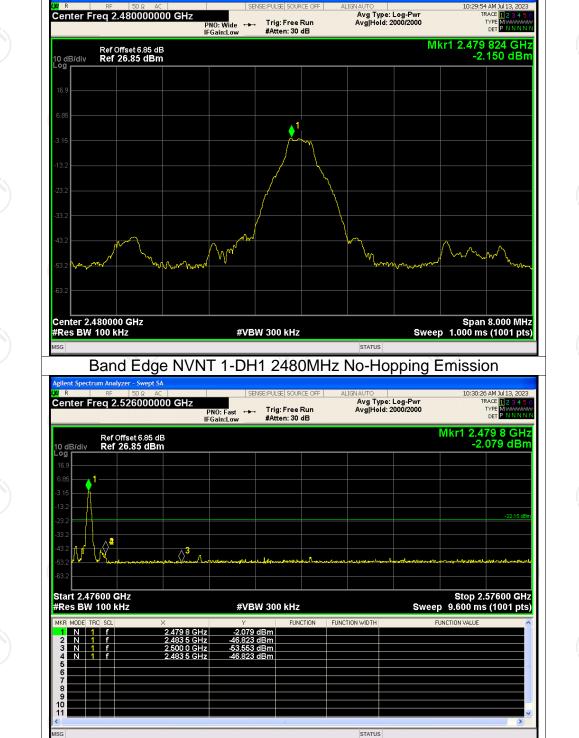
Band Edge NVNT 1-DH1 2402MHz No-Hopping Emission

R RF 50 Ω AC enter Freq 2.35600000		SENSE:PULSE SOURCE OFF Trig: Free Run #Atten: 30 dB	ALIGNAUTO Avg Type Avg Hold:	: Log-Pwr 2000/2000	TR. T	AM Jul 13, 202 ACE 1 2 3 4 5 YPE MWWW DET P N N N 1
Ref Offset 6.8 dB D dB/div Ref 26.80 dBm					Mkr1 2.40 -1.6	1 8 GH 14 dBi
6.8						
80						1 -
20						<u>Ì</u>
3.2						-21.63 d
3.2						
.2				<u> </u>		_/ÅĽ
3.2 mp-mp-th-antiple-wave-te-a-a-	hanser had hope the assessment	and along the last the second s	pertragant tigen the later transmitting a final per	┍┥╾┉╴┺╔╋┯┰┶┵┰┙┑	, and a line physics of a line of the second s	
					O to := 0 /	0600 01
art 2 30600 GHz						
art 2.30600 GHz Res BW 100 kHz	#V	'BW 300 kHz		Sweep	Stop 2.4 9.600 ms	
Res BW 100 kHz	< Y	FUNCTION	FUNCTION WIDTH	-		
Res BW 100 kHz R MODE TRC SCL X N 1 f N 1 f	X Y 2.401 8 GHz -1.6′ 2.400 0 GHz -48.19	FUNCTION 14 dBm 95 dBm	FUNCTION WIDTH	-	9.600 ms	
Res BW 100 kHz R MODE TRC SCL X N 1 f N 1 f N 1 f N 1 f N 1 f	2.401 8 GHz -1.67 2.400 0 GHz -48.19 2.390 0 GHz -52.14	FUNCTION	FUNCTION WIDTH	-	9.600 ms	
Res BW 100 kHz R MODE TRC SCL X N 1 f 2 N 1 f 3 N 1 f 5 - - - 6 - - -	2.401 8 GHz -1.67 2.400 0 GHz -48.19 2.390 0 GHz -52.14	FUNCTION 14 dBm 95 dBm 45 dBm	FUNCTION WIDTH	-	9.600 ms	
Res BW 100 kHz R MODE TRC SCL X N 1 f T T N 1 f T T N 1 f T T N 1 f T T N 1 f T T N 1 f T T N 1 f T T N 1 f T T N 1 f T T N 1 f T T N 1 f T T N 1 f T T N 1 f T T N 1 f T T N 1 f T T N 1 T T T T <	2.401 8 GHz -1.67 2.400 0 GHz -48.19 2.390 0 GHz -52.14	FUNCTION 14 dBm 95 dBm 45 dBm	FUNCTION WIDTH	-	9.600 ms	
Res BW 100 kHz IF MODE TRC SCL X N 1 f 2 N 1 f 3 N 1 f	2.401 8 GHz -1.67 2.400 0 GHz -48.19 2.390 0 GHz -52.14	FUNCTION 14 dBm 95 dBm 45 dBm	FUNCTION WIDTH	-	9.600 ms	

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Band Edge NVNT 1-DH1 2480MHz No-Hopping Ref

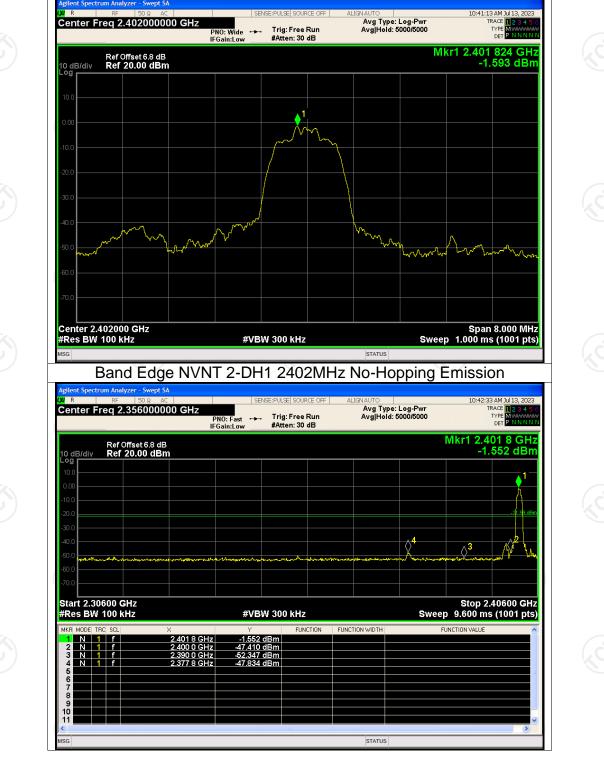
SENSE: PULSE SOURCE OFF

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Band Edge NVNT 2-DH1 2402MHz No-Hopping Ref

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Report No.: TCT230712E003





UR 10:54:22 AM Jul 13, 2023 TRACE 12 3 4 5 SENSE: PULSE SOURCE OFF Center Freg 2.480000000 GHz Avg Type: Log-Pwr Avg|Hold: 2000/2000 PNO: Wide ↔→→ Trig: Free Run IFGain:Low #Atten: 30 dB TYPE MWAAAAAAA DET P N N N N N Mkr1 2.479 824 GHz -2.092 dBm Ref Offset 6.85 dB Ref 20.00 dBm 10 dB/div Log w 1/10/14 wwww Center 2.480000 GHz #Res BW 100 kHz Span 8.000 MHz Sweep 1.000 ms (1001 pts) #VBW 300 kHz STATUS Band Edge NVNT 2-DH1 2480MHz No-Hopping Emission SENSE:PULSE SOURCE OFF ALIGN AUTO Avg Type: Log-Pwr Tria: Free Run Avg|Hold: 2000/2000 10:54:54 AM Jul 13, 2023 TRACE 1 2 3 4 5 6 TYPE MWWW DET P N N N N Center Freq 2.526000000 GHz PNO: Fast +++ Trig: Free Run IFGain:Low #Atten: 30 dB Mkr1 2.479 8 GHz -2.049 dBm Ref Offset 6.85 dB Ref 20.00 dBm 10 dB/div Log **r**

Band Edge NVNT 2-DH1 2480MHz No-Hopping Ref

FCT 通测检测 TESTING CENTRE TECHNOLOGY

Start 2.47600 GHz #Res BW 100 kHz Stop 2.57600 GHz Sweep 9.600 ms (1001 pts) #VBW 300 kHz FUNCTION WIDTH FUNCTION -2.049 dBm -46.133 dBm -54.062 dBm -46.133 dBm 2.483 5 GHz 2.500 0 GHz 2.483 5 GHz Ň STATUS

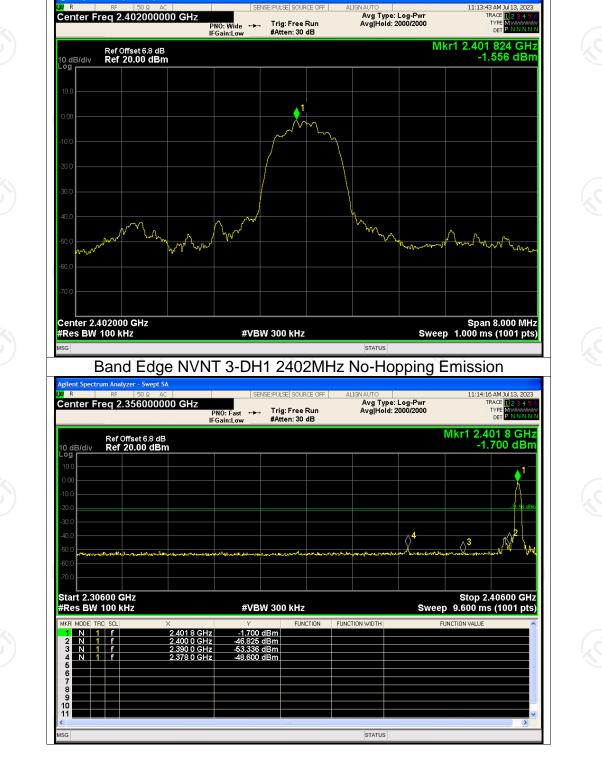
Report No.: TCT230712E003



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Band Edge NVNT 3-DH1 2402MHz No-Hopping Ref

SENSE: PULSE SOURCE OFF

FCT 通测检测 TESTING CENTRE TECHNOLOGY

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Report No.: TCT230712E003

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Avg Type: Log-Pwr Avg|Hold: 2000/2000 PNO: Wide ↔→→ Trig: Free Run IFGain:Low #Atten: 30 dB TYPE MWWWWW DET P N N N N Mkr1 2.479 824 GHz -2.088 dBm Ref Offset 6.85 dB Ref 20.00 dBm 10 dB/div Log WWW mm. 1/m ww hnn ŊΛ. Center 2.480000 GHz #Res BW 100 kHz Span 8.000 MHz Sweep 1.000 ms (1001 pts) #VBW 300 kHz STATUS Band Edge NVNT 3-DH1 2480MHz No-Hopping Emission SENSE:PULSE SOURCE OFF ALIGN AUTO Avg Type: Log-Pwr Tria: Free Run Avg|Hold: 2000/2000 11:19:01 AM Jul 13, 2023 TRACE 12 3 4 5 6 TYPE MWWWW DET P N N N N Center Freq 2.526000000 GHz PNO: Fast +++ Trig: Free Run IFGain:Low #Atten: 30 dB Mkr1 2.479 8 GHz -2.019 dBm Ref Offset 6.85 dB Ref 20.00 dBm 10 dB/div Log **r** \Diamond^3 Start 2.47600 GHz #Res BW 100 kHz Stop 2.57600 GHz Sweep 9.600 ms (1001 pts) #VBW 300 kHz FUNCTION WIDTH FUNCTION -2.019 dBm -47.149 dBm -52.626 dBm -47.149 dBm

Band Edge NVNT 3-DH1 2480MHz No-Hopping Ref

SENSE: PULSE SOURCE OFF

Center Freg 2.480000000 GHz

UR

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11:18:29 AM Jul 13, 2023 TRACE 1 2 3 4 5



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STATUS





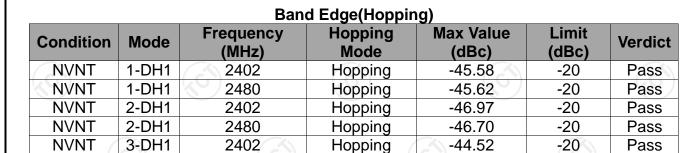


2.483 5 GHz 2.500 0 GHz 2.483 5 GHz

N







Hopping

-45.85

3-DH1

2480

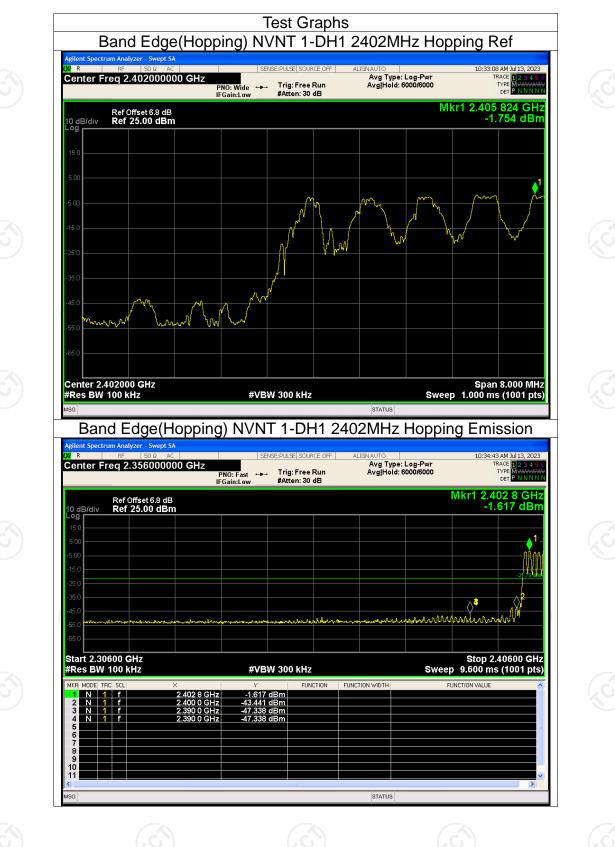
NVNT

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-20

Pass

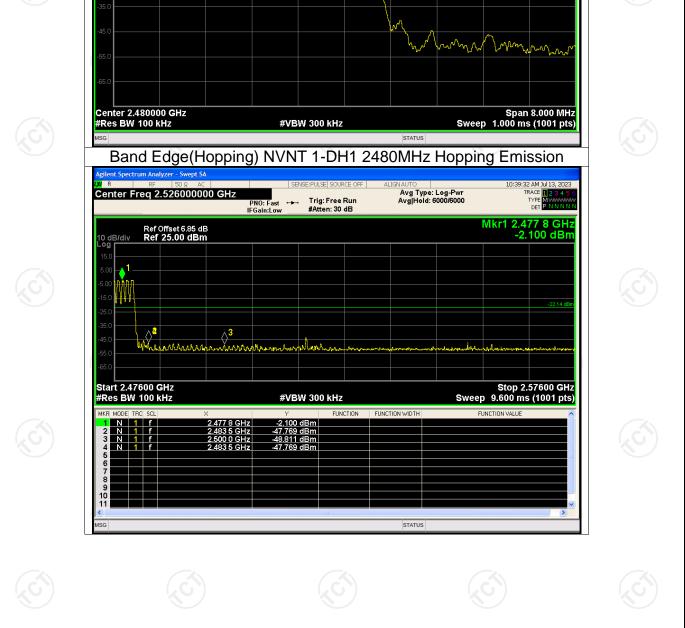
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FCT通测检测 TESTING CENTRE TECHNOLOGY

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Band Edge(Hopping) NVNT 1-DH1 2480MHz Hopping Ref

Avg Type: Log-Pwr Avg|Hold: 6000/6000

SENSE: PULSE SOURCE OFF

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

FCT通测检测 TESTING CENTRE TECHNOLOGY

Center Freg 2.480000000 GHz

Ref Offset 6.85 dB Ref 25.00 dBm

UR

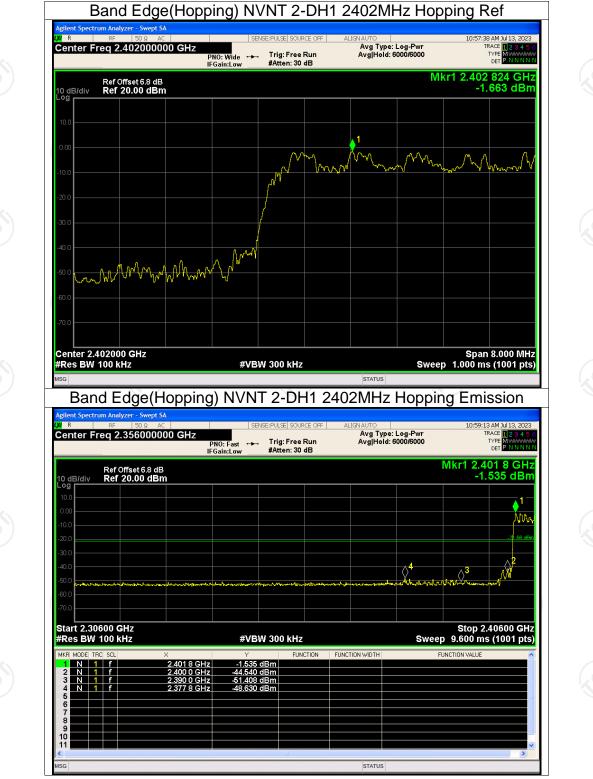
10 dB/div Log

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57 AM Jul 13, 2023

TYPE MWWWWW

Mkr1 2.478 816 GHz -2.141 dBm



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