	TEST REPOR	Т	
FCC ID	2AAPK-MA-3768		
Test Report No:	TCT230717E008		
Date of issue:	Jul. 20, 2023		
Testing laboratory: :	SHENZHEN TONGCE TESTING	LAB	
Testing location/ address:	2101 & 2201, Zhenchang Factory Subdistrict, Bao'an District, Shen People's Republic of China		
Applicant's name::	Shenzhen Kingsun Enterprises C		
Address:	25/F, CEC Information Building, 2 Guangdong 518034 China	Xinwen Rd., Shenzhen,	
Manufacturer's name :	Shenzhen Kingsun Enterprises C	Co., Ltd.	
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::	Prodigy Clear TWS Earphones w	vith Charging Case	
Trade Mark:	N/A		
Model/Type reference :	MA-3768, Al1010, Al1010-BLK, A	AI1010-WHT	
Rating(s):	Rechargeable Li-ion Battery DC	3.7V	
Date of receipt of test item	Jul. 17, 2023	(C)	
Date (s) of performance of test:	Jul. 17, 2023 - Jul. 20, 2023		
Tested by (+signature) :	Ronaldo LUO	Ronaldy was	
Check by (+signature) :	Beryl ZHAO	Boyle TOT	
Approved by (+signature):	Tomsin	Tomsites at	
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 1	ONGCE

Table of Contents

TCT 通测检测 TESTING CENTRE TECHNOLOGY

1. General Product Information		
1.1. EUT description	2	
1.2. Model(s) list		3
1.3. Operation Frequency		4
2. Test Result Summary		
3. General Information		
3.1. Test environment and mode	<u>)</u>	
3.2. Description of Support Units		6
4. Facilities and Accreditations		
4.1. Facilities		
4.2. Location		
4.3. Measurement Uncertainty	<u></u>	7
5. Test Results and Measurement D		
5.1. Antenna requirement		
5.2. Conducted Emission		9
5.3. Conducted Output Power	\sim	
5.4. 20dB Occupy Bandwidth		14
5.5. Carrier Frequencies Separation		
5.6. Hopping Channel Number		
5.7. Dwell Time		
5.8. Pseudorandom Frequency Hopping	g Sequence	
5.9. Conducted Band Edge Measureme	nt	
5.10.Conducted Spurious Emission Me		
5.11.Radiated Spurious Emission Meas	urement	
Appendix A: Test Result of Conduct	ed Test	
Appendix B: Photographs of Test Se	etup	
Appendix C: Photographs of EUT	KO)	



1. General Product Information

1.1. EUT description

Product Name:	Prodigy Clear TWS Earphones with Charging Case	
Model/Type reference:	MA-3768	
Sample Number:	TCT230717E008-0101	
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:	Chip Antenna	
Antenna Gain:	2.67dBi	\mathcal{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

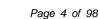
No.			M	odel No.			Test	ed with	
1	1 MA-3768								
Other models		AI10	010, Al101	0-BLK, Al1	010-WHT				
Note: MA-3768 i layout, diffe				erivative moc est data of M					
							Page	ə 3 of 98	
Hotline: 4	100-6611-1 4	40 Tel: 8	<u>6-755-27673</u>	339 Fax: 8	<u>36-755-2767</u>	<u>3332 http:</u>	//www.tct-la	ab.com	

Report No.: TCT230717E008

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
<i>_</i>		·		·		<u> </u>	
10	2412MHz	30	2432MHz	50	2452MHz	70	2472MHz
11	2413MHz	31	2433MHz	51	2453MHz	71	2473MHz
	S		9		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, $\pi/4$ -DQPSK, 8DPSK modulation mode.





2. Test Result Summary

Requirement	irement CFR 47 Section		
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.

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:	BT_Tool V1.1.1				
Power Level:	Maximum level 7				
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 0.8 above the ground plane of 3n polarities were performed. Do the EUT continuously workin axis (X, Y & Z) and cons manipulating interconnecting from 1m to 4m in both worst-case(Z axis) are DH1 DH3 DH5 all have been	n chamber. Measurements in uring the test, each emission g, investigated all operating idered typical configuration cables, rotating the turntal horizontal and vertical po shown in Test Results	h both horizontal and vertical h was maximized by: having modes, rotated about all 3 h to obtain worst position, ole, varying antenna height larizations. The emissions 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, 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.

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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

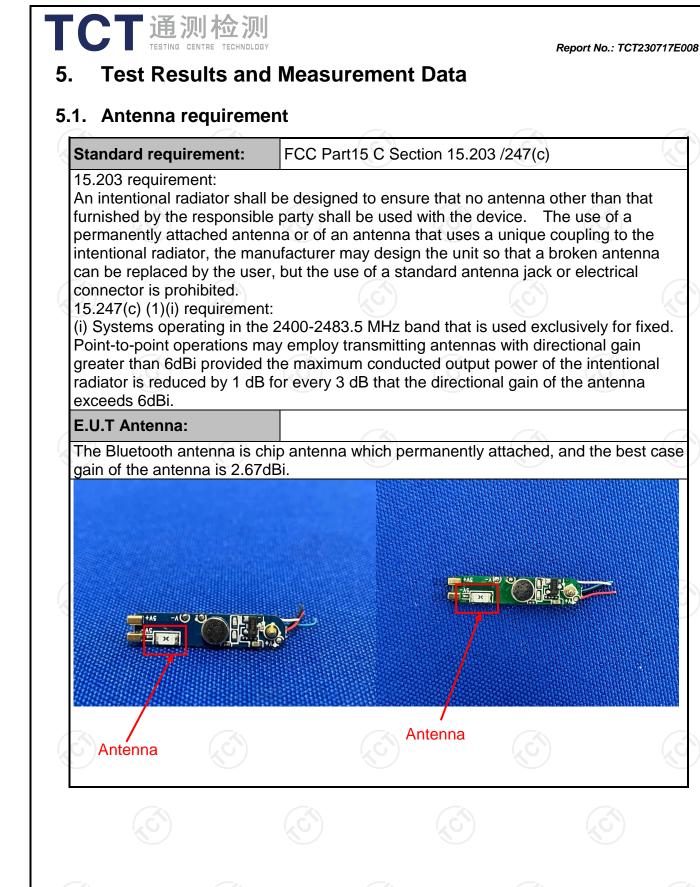
SHENZHEN TONGCE TESTING LAB

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





5.2. Conducted Emission

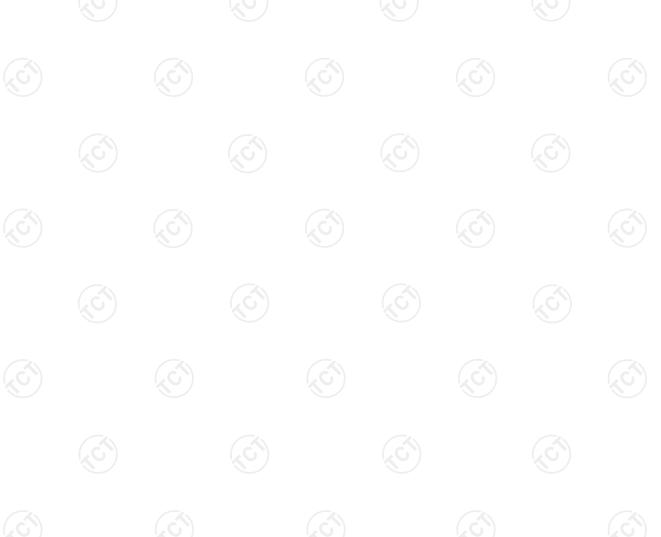
5.2.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.207					
Test Method:	ANSI C63.10:2013					
Frequency Range:	150 kHz to 30 MHz	(C)				
Receiver setup:	RBW=9 kHz, VBW=30	kHz, Sweep time	e=auto			
	Frequency range	Limit (dBuV)			
	(MHz)	Quasi-peak	Áverage			
Limits:	0.15-0.5	66 to 56*	56 to 46*			
	0.5-5	56	46			
	5-30	60	50			
	Reference	e Plane	(261)			
	40cm Filter AC power 80cm Filter AC power E.U.T. Remark: E.U.T. Equipment Under Test LISN: Line Impedence Stabilization Network Test table height=0.8m					
Test Setup:	Remark: E.U.T. Equipment Under Test LISN: Line Impedence Stabilization Ne Test table height=0.8m	EMI Receiver	r AC power			
Test Setup: Test Mode:	Remark: E.U.T. Equipment Under Test LISN: Line Impedence Stabilization Ne Test table height=0.8m Charging	EMI Receiver				
	Remark: E.U.T. Equipment Under Test LISN: Line Impedence Stabilization Net Test table height=0.8m Charging 1. The E.U.T is connered impedance stabilization provides a 500hm/5 measuring equipment 2. The peripheral device power through a LI coupling impedance refer to the block photographs). 3. Both sides of A.C. conducted interferent emission, the relative the interface cables	etwork EMI Receiver etwork cted to an adapte cation network 50uH coupling im nt. ces are also conner SN that provides e with 50ohm term diagram of the line are checked nce. In order to fin e positions of equi must be changed	er through a line (L.I.S.N.). This pedance for the ected to the main a 50ohm/50ul- nination. (Please test setup and test setup and ed for maximum inpment and all o l according to			
Test Mode:	Remark E.U.T. Equipment Under Test LISN Line Impedence Stabilization Ne Test table height=0.8m Charging 1. The E.U.T is conne impedance stabiliz provides a 50ohm/5 measuring equipment 2. The peripheral device power through a LI coupling impedance refer to the block photographs). 3. Both sides of A.C. conducted interferent emission, the relative	etwork EMI Receiver etwork cted to an adapte cation network 50uH coupling im nt. ces are also conner SN that provides e with 50ohm term diagram of the line are checked nce. In order to fin e positions of equi must be changed	er through a line (L.I.S.N.). This pedance for the ected to the main a 50ohm/50ul- nination. (Please test setup and test setup and ed for maximum ind the maximum ipment and all o l according to			



5.2.2. Test Instruments

Conducted Emission Shielding Room Test Site (843)									
Equipment	Equipment Manufacturer Model Serial Number		Serial Number	Calibration Due					
EMI Test Receiver	R&S	ESCI3	100898	Jun. 29, 2024					
Line Impedance Stabilisation Newtork(LISN)	bilisation Schwarzbeck NSLK 8126		8126453	Feb. 20, 2024					
Line-5	TCT CE-05		/	Jul. 03, 2024					
EMI Test Software	Shurple Technology	EZ-EMC	1	1					



Page 10 of 98

5.2.3. Test data

Please refer to following diagram for individual Conducted Emission on Line Terminal of the power line (150 kHz to 30MHz) dBuV 80.0 70 FCC Pa 15C Conduction(QP) rt 60 Conduction(AVG) FC¢ P/ 50 40 30 20 12 10 0 AVG -10 30.000 0 150 0.500 (MHz) 5.000

Site 844 Shielding Room Limit: FCC Part 15C Conduction(QP)

Phase: L1 Power: DC 5 V(Adapter Input AC 120 V/60 Hz)

Temperature: 23.5 (℃)

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.1580	30.23	10.12	40.35	65.57	-25.22	QP	
2		0.1580	10.75	10.12	20.87	55.57	-34.70	AVG	
3		0.2179	27.07	9.95	37.02	62.90	-25.88	QP	
4		0.2179	9.95	9.95	19.90	52.90	-33.00	AVG	
5		0.3140	22.90	9.95	32.85	59.86	-27.01	QP	
6		0.3140	6.03	9.95	15.98	49.86	-33.88	AVG	
7		0.3738	21.90	9.58	31.48	58.42	-26.94	QP	
8		0.3738	4.48	9.58	14.06	48.42	-34.36	AVG	
9		0.6860	18.87	9.27	28.14	56.00	-27.86	QP	
10		0.6860	9.51	9.27	18.78	46.00	-27.22	AVG	
11		12.6899	17.21	10.16	27.37	60.00	-32.63	QP	
12		12.6899	5.41	10.16	15.57	50.00	-34.43	AVG	

Note:

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)

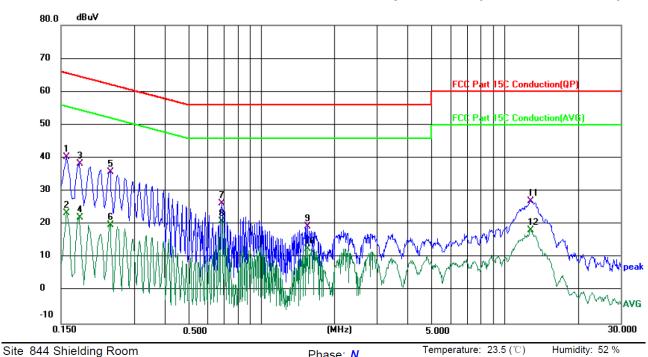
Q.P. =Quasi-Peak

AVG =average

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

Report No.: TCT230717E008

Humidity: 52 %



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

Limit: FCC Part 15C Conduction(QP)

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> Phase: N Temperature: 23.5 (7) Power: DC 5 V(Adapter Input AC 120 V/60 Hz)

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1580	30.19	10.10	40.29	65.57	-25.28	QP	
2		0.1580	13.42	10.10	23.52	55.57	-32.05	AVG	
3		0.1780	28.19	10.13	38.32	64.58	-26.26	QP	
4		0.1780	11.98	10.13	22.11	54.58	-32.47	AVG	
5		0.2380	25.83	9.95	35.78	62.17	-26.39	QP	
6		0.2380	9.96	9.95	19.91	52.17	-32.26	AVG	
7		0.6860	17.14	9.28	26.42	56.00	-29.58	QP	
8	*	0.6860	11.75	9.28	21.03	46.00	-24.97	AVG	
9		1.5540	9.41	10.00	19.41	56.00	-36.59	QP	
10		1.5540	2.68	10.00	12.68	46.00	-33.32	AVG	
11		12.7580	16.84	10.23	27.07	60.00	-32.93	QP	
12		12.7580	7.98	10.23	18.21	50.00	-31.79	AVG	

Note1:

Freq. = Emission frequency in MHz Reading level ($dB\mu V$) = Receiver reading Corr. Factor (dB) = LISN factor + Cable loss

For CORP = LISIN 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.

Report No.: TCT230717E008



5.3. Conducted Output Power

5.3.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.24	47 (b)(1)
Test Method:	KDB 558074 D01 v05r02	
Limit:	Section 15.247 (b) The maxi power of the intentional radia following: (1) For frequency in the 2400-2483.5 MHz bar non-overlapping hopping ch hopping systems in the 5728 For all other frequency hopp 2400-2483.5 MHz band 0.12	hopping systems operating nd employing at least 75 annels, and all frequency 5-5850 MHz band: 1 watt. bing systems in the
Test Setup:	Spectrum Analyzer	EUT
Test Mode:	Transmitting mode with mod	lulation
Test Procedure:	centered on a hopping chan RBW > the 20 dB bandwidth measured VBW ≥ RBW Sweep = auto Detector function = peak Trace = max hold Allow the trace to stabilize.	mes the 20 dB bandwidth, nel
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. 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	/ >	1

Page 15 of 98



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 Tost Instruments				

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	/	/

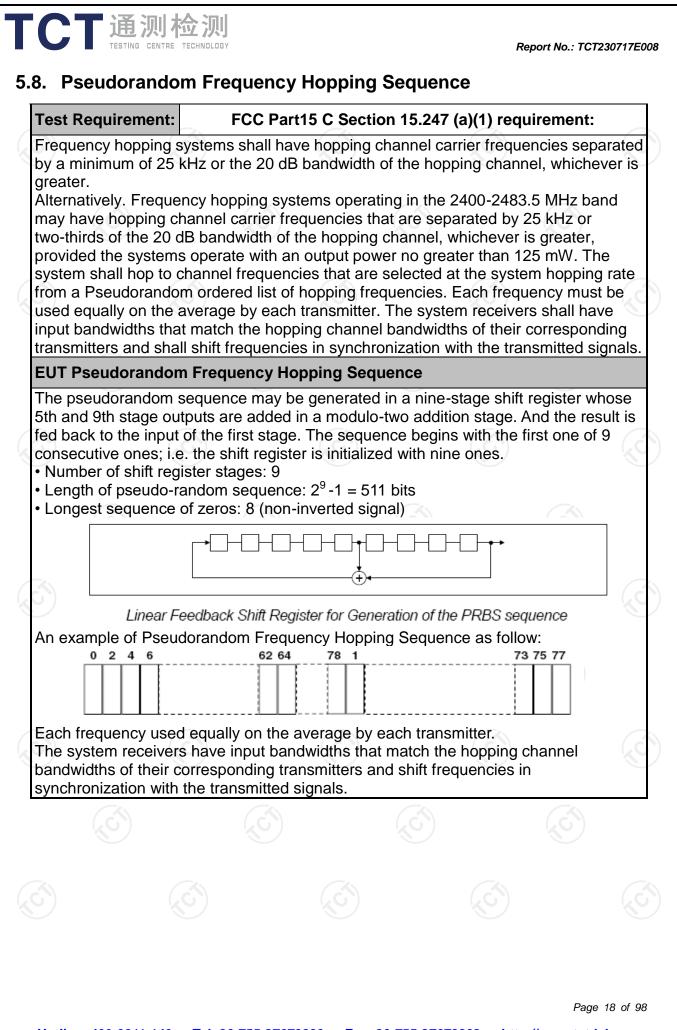
5.7. Dwell Time

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 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:	 Set to the maximum power setting and enable the EUT transmit continuously. Set RBW = 100 kHz (≥1% span=10MHz), VBW = 300 kHz (≥RBW). Band edge emissions must be at least 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: Test Setup:	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		

Page 20 of 98

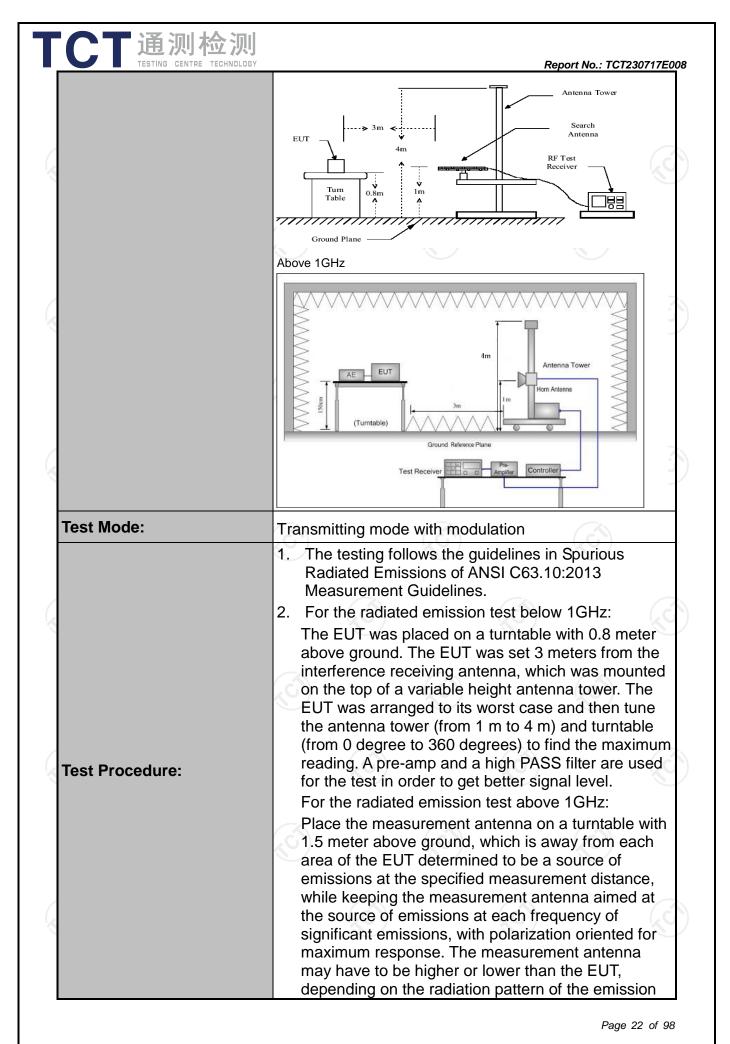


5.11. Radiated Spurious Emission Measurement

5.11.1. Test Specification

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Test Requirement:	FCC Part15	C Section	15.209			No.
Test Method:	ANSI C63.10):2013				
Frequency Range:	9 kHz to 25 (GHz	Z		C	6
Measurement Distance:	3 m	X	9		K)
Antenna Polarization:	Horizontal &	Vertical				
	Frequency	Detector	RBW	VBW		Remark
	9kHz- 150kHz	Quasi-peak	4 200Hz	1kHz	Quas	si-peak Value
Receiver Setup:	150kHz- 30MHz	Quasi-peak	k 9kHz	30kHz	Quas	si-peak Value
	30MHz-1GHz	Quasi-peak	120KHz	300KHz	Quas	si-peak Value
	Above 1GHz	Peak	1MHz	3MHz	Р	eak Value
	Above IGI12	Peak	1MHz	10Hz	Ave	erage Value
	Frequen	ю	Field Str (microvolts			asurement nce (meters)
	0.009-0.4	490	2400/F(2.0.0	300
	0.490-1.7	/	24000/F			30
	1.705-3		30		30	
	30-88		100		3	
	88-216		150		3	
Limit:	216-96		200		3	
	Above 9	60	500			3
	Frequency		d Strength ovolts/meter)	Measure Distan (meter	nce Detector	
	Above 1GHz	z	500 5000	3		Average Peak
Test setup:	For radiated emis	stance = 3m			Compu	
						Page 21 of 9



	receiving the r measurement maximizes the antenna eleva restricted to a above the gro 3. Set to the ma EUT transmit 4. Use the follow (1) Span sha emission (2) Set RBW for f>1GH Sweep = = max he (3) For aver correctio	med at the emission source naximum signal. The final antenna elevation shall b emissions. The measure tion for maximum emission range of heights of from 1 und or reference ground p aximum power setting an	l ee that which ement ons shall be 1 m to 4 m olane. Id enable the ettings: oture the RBW=1MHz = peak; Trace uty cycle
	On time = Where N length of Average Level + 2 Corrected	N1*L1+N2*L2++Nn-1*L I1 is number of type 1 puls type 1 pulses, etc. Emission Level = Peak E 20*log(Duty cycle) Reading: Antenna Factor	ses, L1 is Emission r + Cable
Test results:	On time = Where N length of Average Level + 2 Corrected	11 is number of type 1 puls type 1 pulses, etc. Emission Level = Peak E 20*log(Duty cycle)	ses, L1 is Emission r + Cable
Test results:	On time = Where N length of Average Level + 2 Corrected Loss + Re	11 is number of type 1 pul type 1 pulses, etc. Emission Level = Peak E 20*log(Duty cycle) Reading: Antenna Factor	ses, L1 is Emission r + Cable
Test results:	On time = Where N length of Average Level + 2 Corrected Loss + Re	11 is number of type 1 pul type 1 pulses, etc. Emission Level = Peak E 20*log(Duty cycle) Reading: Antenna Factor	ses, L1 is Emission r + Cable
Test results:	On time = Where N length of Average Level + 2 Corrected Loss + Re	11 is number of type 1 pul type 1 pulses, etc. Emission Level = Peak E 20*log(Duty cycle) Reading: Antenna Factor	ses, L1 is Emission r + Cable



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

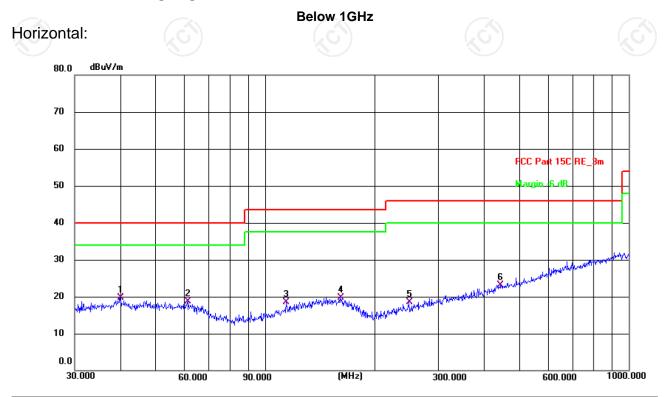


Page 24 of 98

5.11.3. Test Data

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Please refer to following diagram for individual



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

Ļ	imit: F	CC Part 15C R	E_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
ſ	1 *	39.9942	5.22	14.42	19.64	40.00	-20.36	QP	Ρ	
	2	61.3463	5.70	13.00	18.70	40.00	-21.30	QP	Ρ	
	3	114.5146	6.21	12.36	18.57	43.50	-24.93	QP	Ρ	
	4	160.9089	4.84	14.93	19.77	43.50	-23.73	QP	Ρ	
	5	248.5519	5.39	13.04	18.43	46.00	-27.57	QP	Ρ	
	6	443.2942	4.82	18.25	23.07	46.00	-22.93	QP	Ρ	

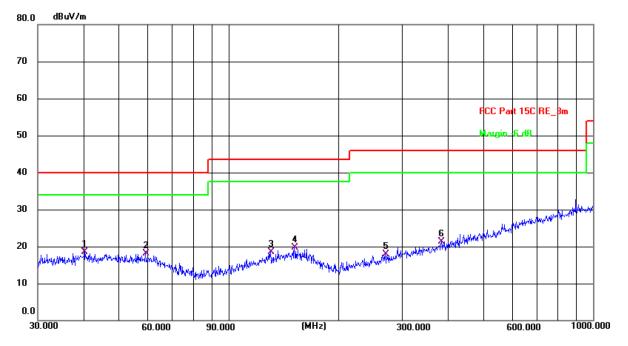
Page 25 of 98

Report No.: TCT230717E008

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Vertical:

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

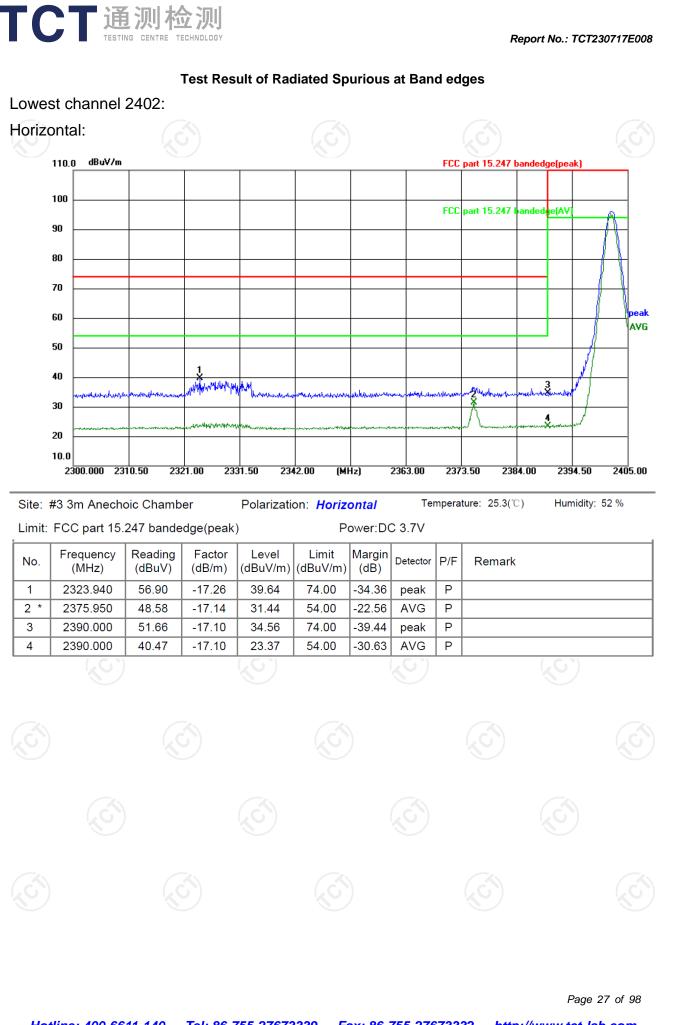
Limit:	FCC Part 15C F	RE_3m			Power:	DC 3.7 V			
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1 *	40.2757	4.13	14.40	18.53	40.00	-21.47	QP	Ρ	
2	59.2325	4.87	13.32	18.19	40.00	-21.81	QP	Р	
3	130.3789	4.73	13.75	18.48	43.50	-25.02	QP	Ρ	
4	151.5972	4.79	14.95	19.74	43.50	-23.76	QP	Ρ	
5	269.4284	4.11	13.79	17.90	46.00	-28.10	QP	Ρ	
6	383.9318	4.75	16.58	21.33	46.00	-24.67	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 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.

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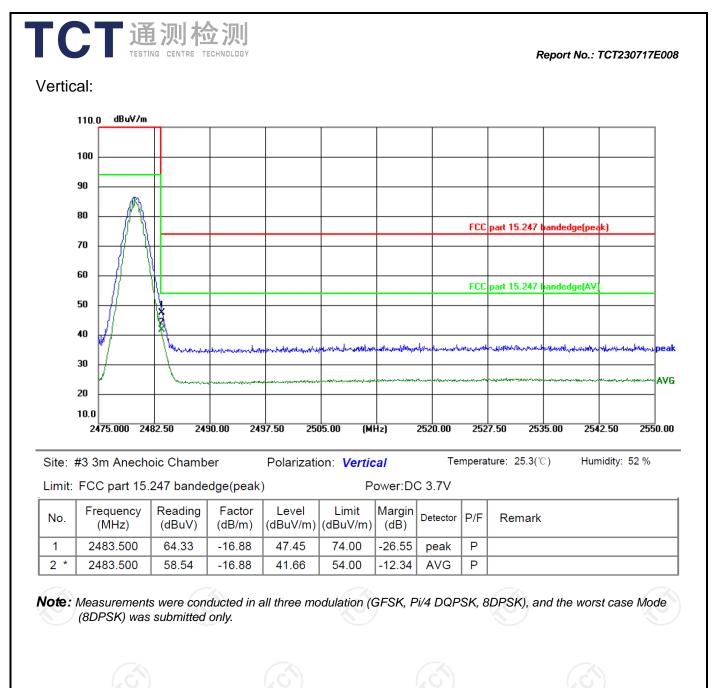
Page 28 of 98

Report No.: TCT230717E008 Highest channel 2480: Horizontal: 110.0 dBuV/m 100 90 80 FCC part 15.247 bandedge(peak) 70 60 FCC part 15.247 bandedge(AV 50 40 Rendertoris eak 30 AVG 20 10.0 2475.000 2482.50 2490.00 2497.50 (MHz) 2520.00 2505.00 2527.50 2535.00 2542.50 2550.00 Site: #3 3m Anechoic Chamber Polarization: *Horizontal* Temperature: 25.3(℃) Humidity: 52 % Limit: FCC part 15.247 bandedge(peak) Power:DC 3.7V Γ. Frequency Reading Factor Level Limit Margin

	No.	(MHz)	(dBuV)		(dBuV/m)		(dB)	Detector	P/F	Remark
	1	2483.500	70.60	-16.88	53.72	74.00	-20.28	peak	Ρ	
	2 *	2483.500	64.51	-16.88	47.63	54.00	-6.37	AVG	Ρ	
ĺ		-	(.0			(.6))			(G)

Page 29 of 98

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Above 1GHz

Ν	Nodulation	Type: 8D	PSK							
L	ow chann	el: 2402 N	IHz							
F	Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBuV)	Correction Factor (dB/m)	Peak	on Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
	4804	Н	46.01		0.66	46.67		74	54	-7.33
	7206	Н	37.40		9.50	46.90		74	54	-7.10
		Н					~~~			
		2G`)		(,C)) 	()	· ()		(\mathcal{O})	
	4804	V	45.37		0.66	46.03		74	54	-7.97
	7206	V	35.29		9.50	44.79		74	54	-9.21
		V								
/										

Middle cha	nnel: 2441	MHz))			Š	
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)	Emissic Peak (dBµV/m)	AV	Peak limit (dBµV/m)		Margin (dB)
4882	Н	45.16		0.99	46.15	·	74	54	-7.85
7323	ζOH)	35.98	1,0	9.87	45.85		74	54	-8.15
	Ĥ)			<u> </u>			
4882	V	47.45		0.99	48.44		74	54	-5.56
7323	V	36.13		9.87	46.00		74	54	-8.00
· /	V			'S'	·)				

High channel: 2480 MHz

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. Pol. I/V H	Peak reading (dBµV) 45.25 35.69	AV reading (dBµV)	Correction Factor (dB/m) 1.33	Peak	A \ /		(dBµV/m)	Margin (dB)
I/V H	(dBµV) 45.25	(dBµV)	(dB/m)	(dBµV/m)	AV	(dBµV/m)	(dBµV/m)	(dB)
	45.25	· · /	· · · ·	· · · /	(abhr/w)			. ,
			1.33	46 58		74		
Н	25 60			40.00		74	54	-7.42
	33.09		10.22	45.91		74	54	-8.09
H								
	(.c.)					(.c.)) .)
V	43.04		1.33 🔪	44.37		74	54	-9.63
V	34.32		10.22	44.54		74	54	-9.46
-								
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.

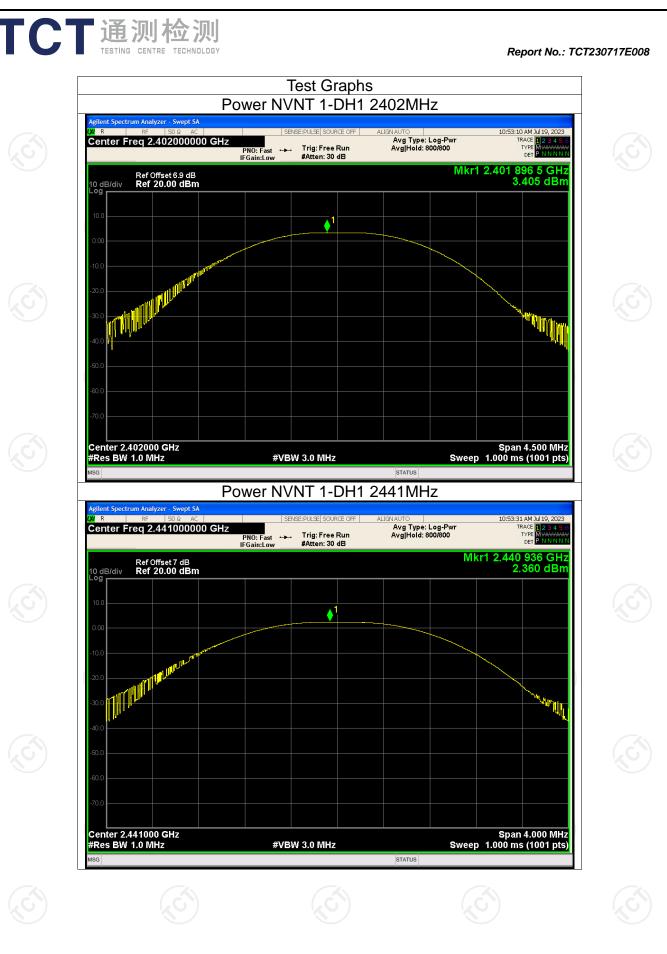


Condition	Mode	Frequency (MHz)	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH1	2402	3.41	30	Pass
NVNT	1-DH1	2441	2.36	30	Pass
NVNT	1-DH1	2480	1.72	30	Pass
NVNT	2-DH1	2402	3.82	21	Pass
NVNT	2-DH1	2441	3.33	21	Pass
NVNT	2-DH1	2480	2.56	21	Pass
NVNT	3-DH1	2402	4.33	21	Pass
NVNT	3-DH1	2441	3.83	21	Pass
NVNT	3-DH1	2480	2.88	21	Pass

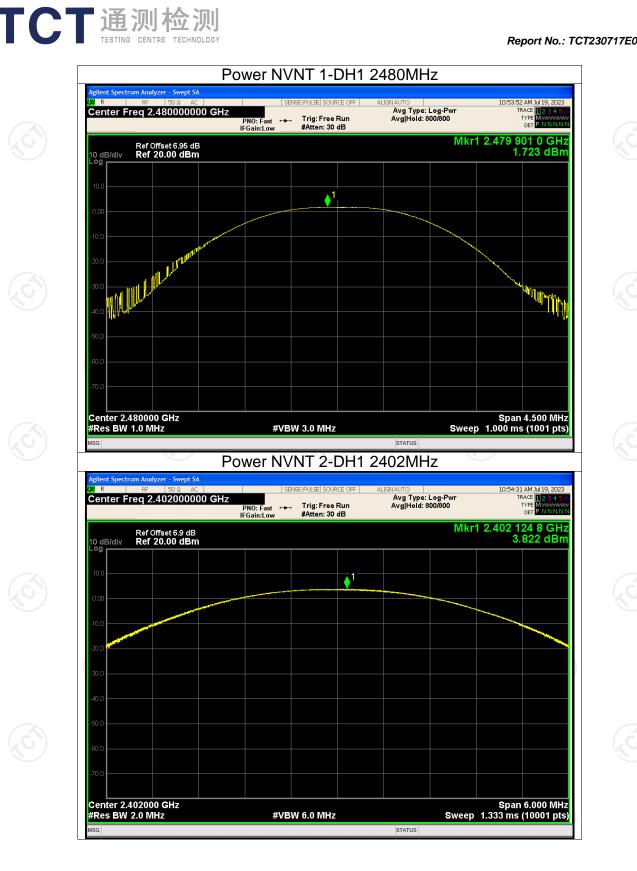
Appendix A: Test Result of Conducted Test



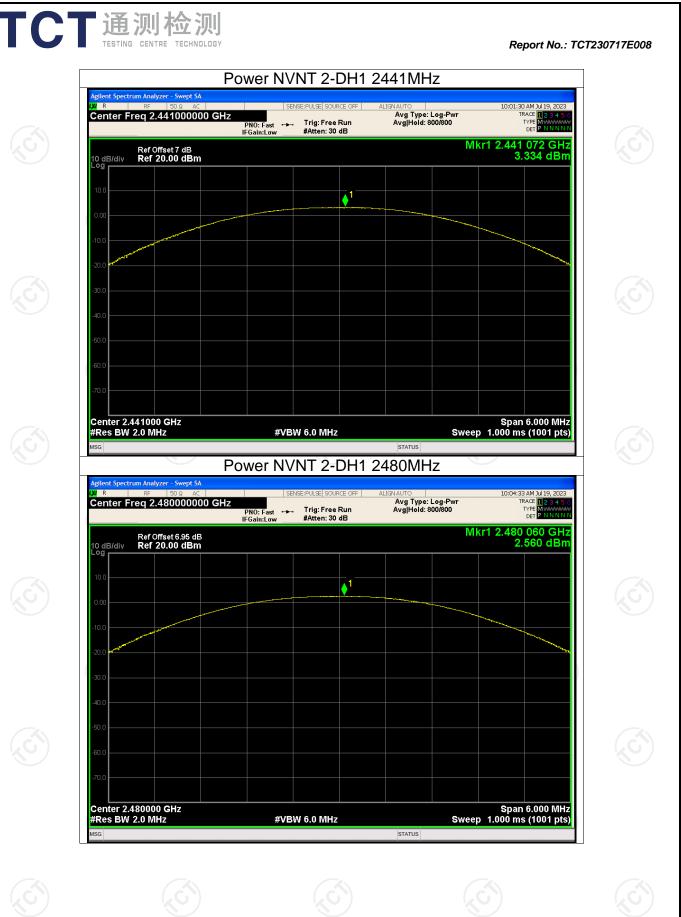
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Page 33 of 98

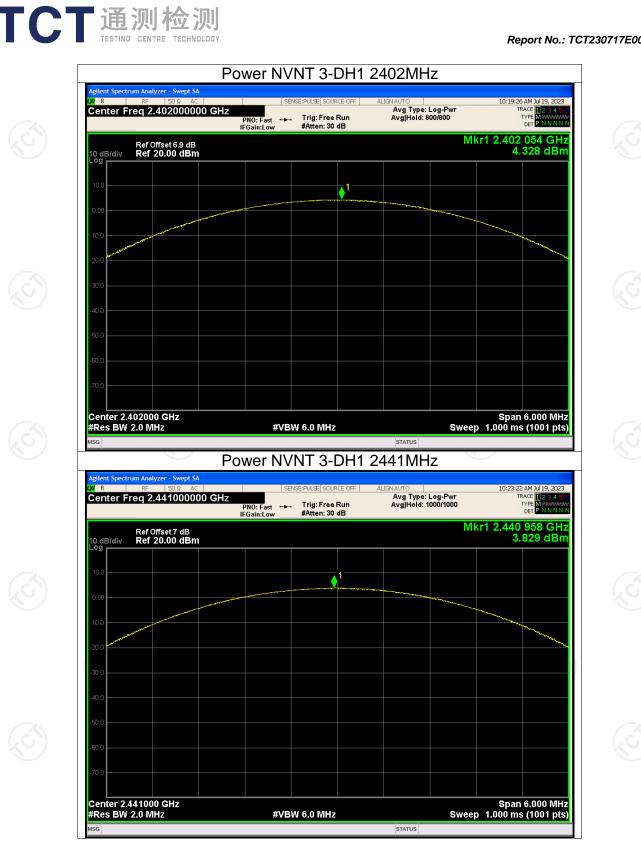


Page 34 of 98

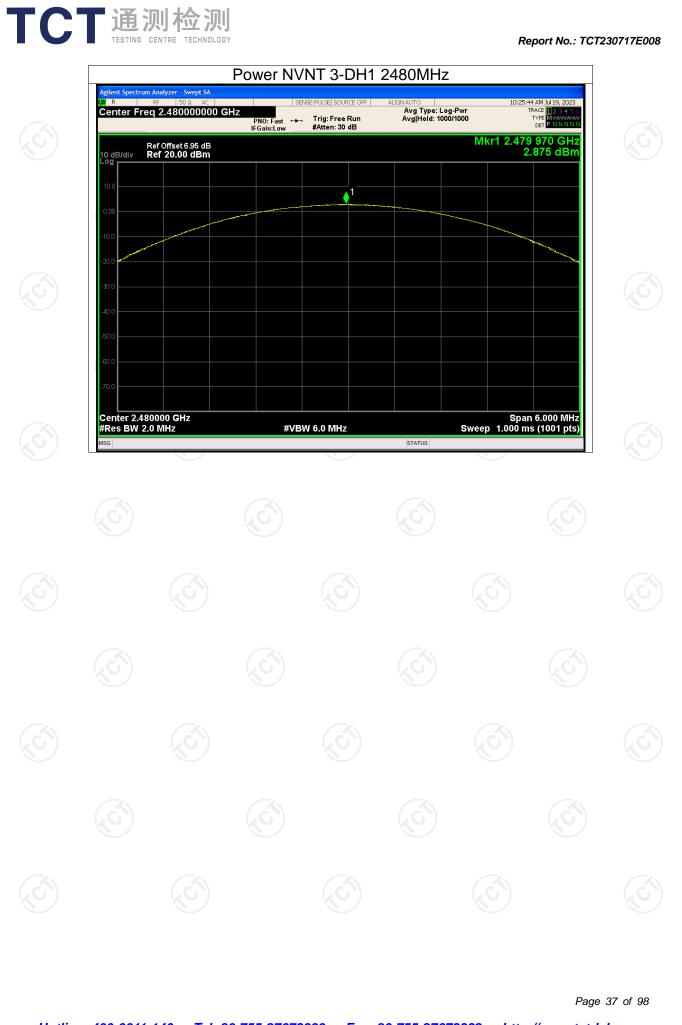


Page 35 of 98

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Page 36 of 98



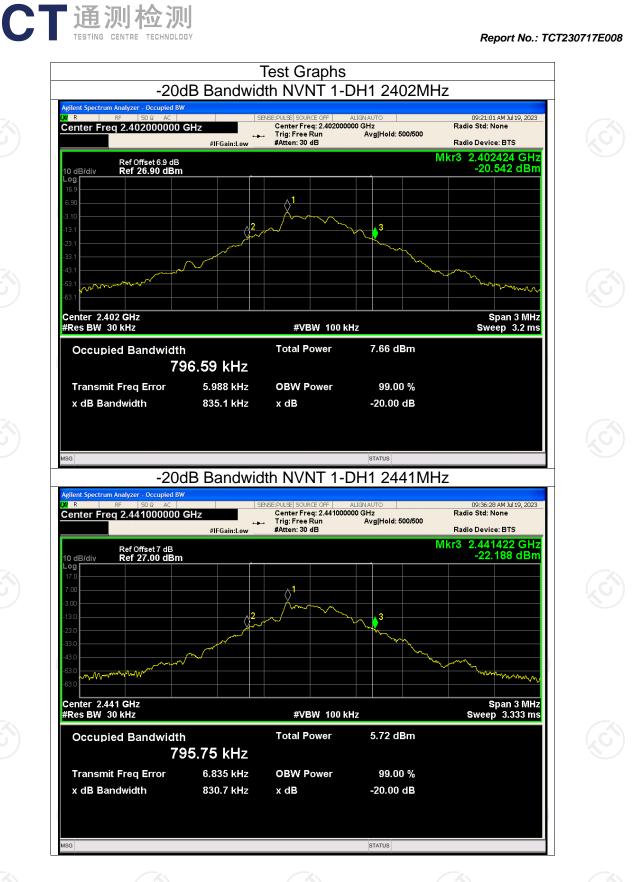
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Condition Mode		Frequency (MHz)	-20 dB Bandwidth (MHz)	Verdict				
NVNT	1-DH1	2402	0.835	Pass				
NVNT 🚫	1-DH1	2441	0.831	Pass				
NVNT	1-DH1	2480	0.841	Pass				
NVNT	2-DH1	2402	1.213	Pass				
NVNT	2-DH1	2441	1.207	Pass				
NVNT	2-DH1	2480	1.196	Pass				
NVNT	3-DH1	2402	1.218	Pass				
NVNT	3-DH1	2441	1.219	Pass				
NVNT	3-DH1	2480	1.218	Pass				
X				•				

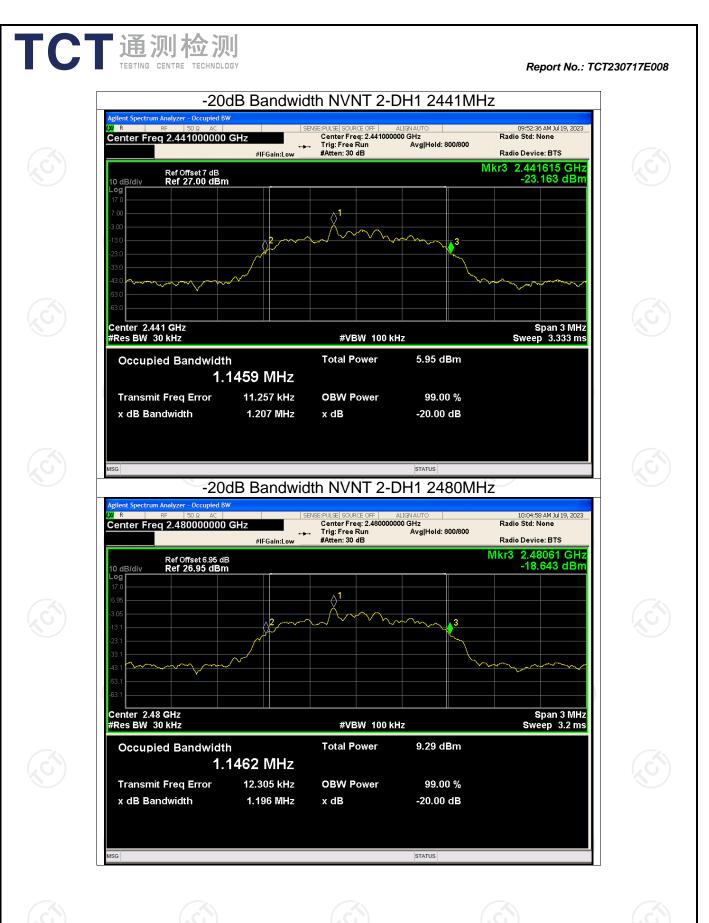
Report No.: TCT230717E008

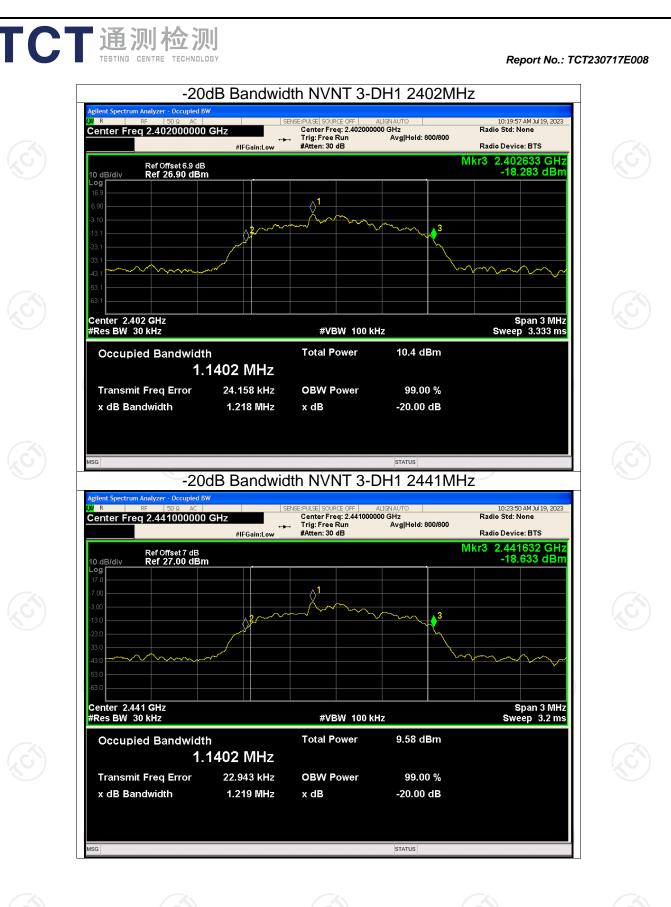
Page 38 of 98



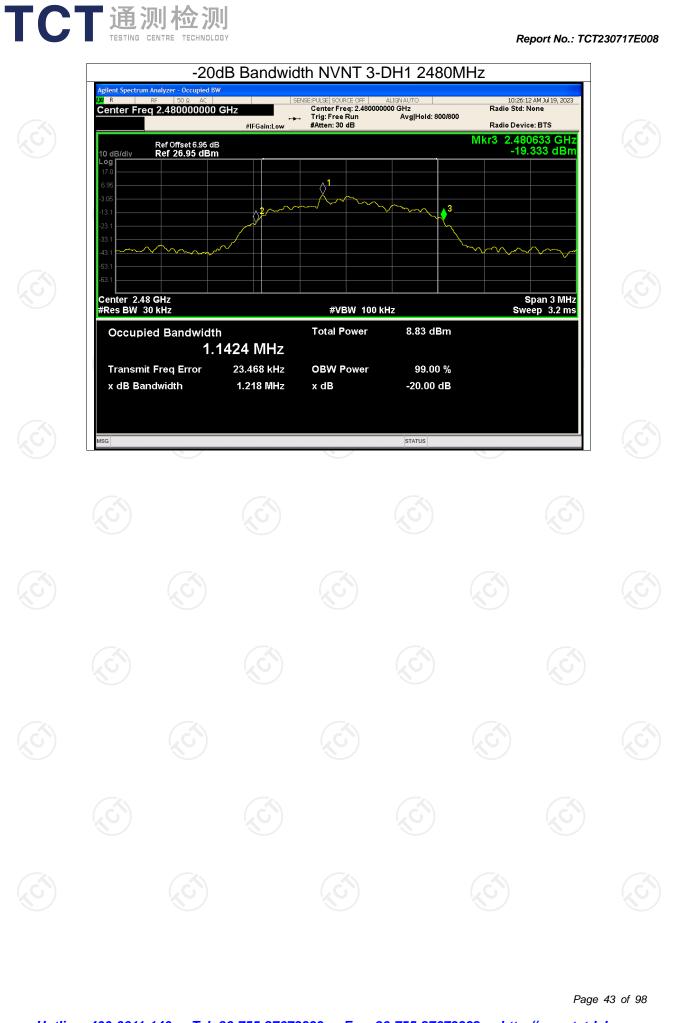
Page 39 of 98







Page 42 of 98



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Carrier Frequencies Separation

Report No.: TCT230717E008



Page 44 of 98



X Y FUNCTION FUNCTION WIDTH FUNCTION VALUE 2.401 850 GHz 0.514 dBm 2.402 854 GHz 0.453 dBm 4

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

 \Diamond^2

STATUS

U F

ım Analyzer - Swept SA

Ref Offset 6.9 dB Ref 20.00 dBm

≬1

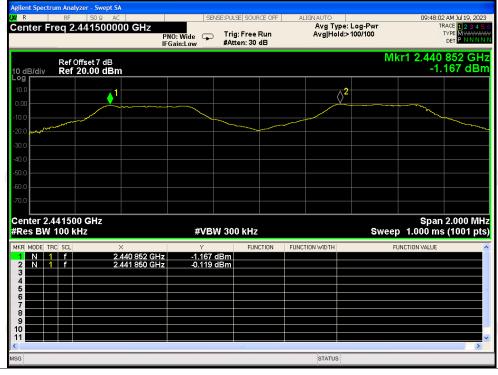
Center Freq 2.402500000 GHz

Center 2.402500 GHz #Res BW 100 kHz

> N 1 f N 1 f

234

CFS NVNT 1-DH1 2441MHz

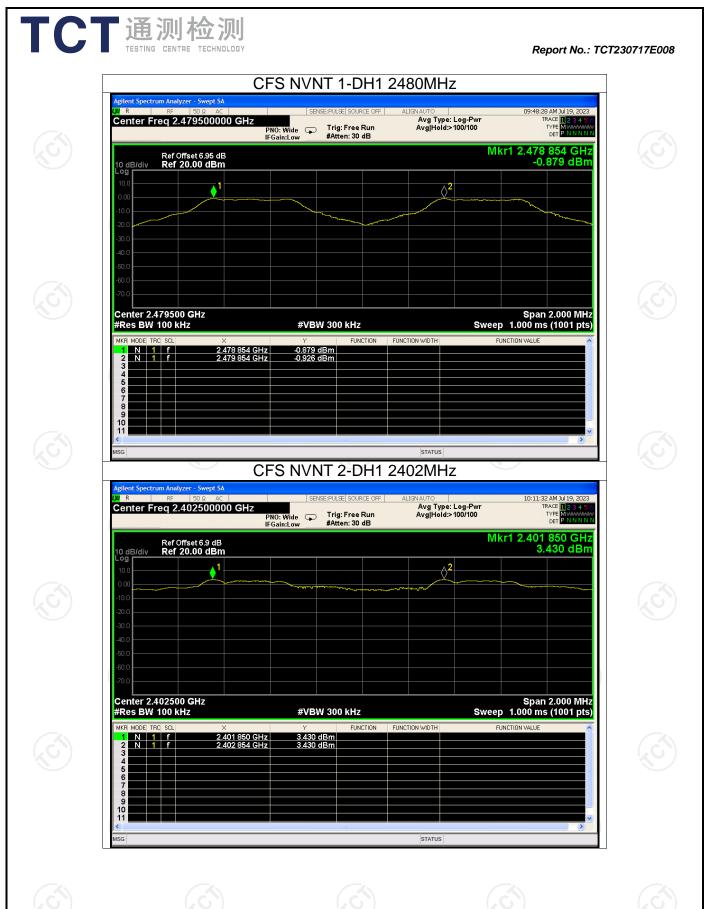


Report No.: TCT230717E008

Page 45 of 98

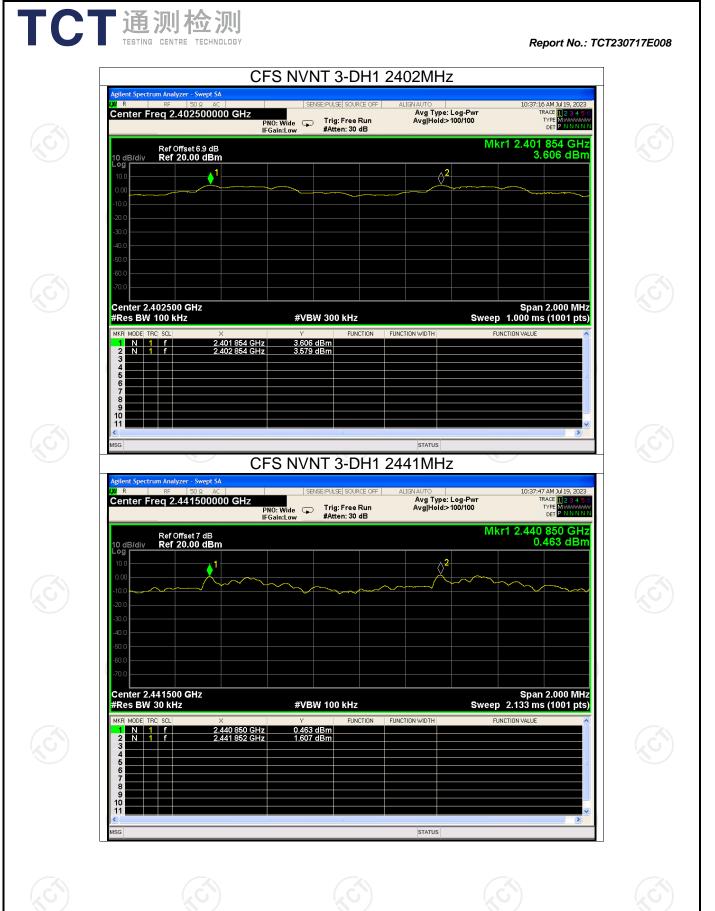
15 AM Jul 19, 2023 TRACE 1 2 3 4 5 TYPE MWWWW DET P N N N N

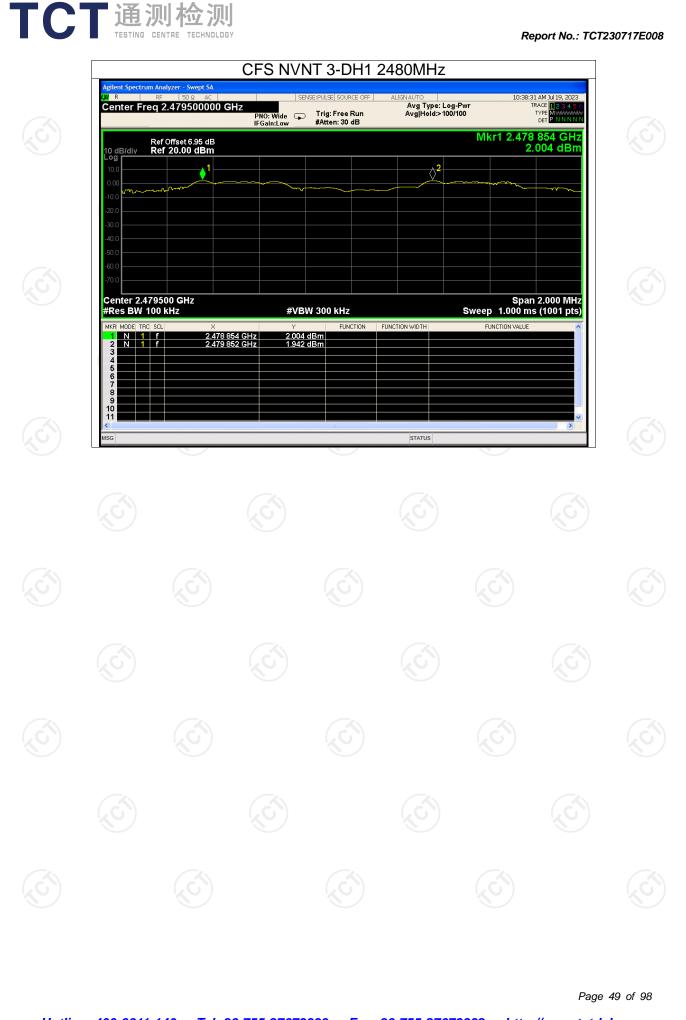
Mkr1 2.401 850 GHz 0.514 dBm





Page 47 of 98





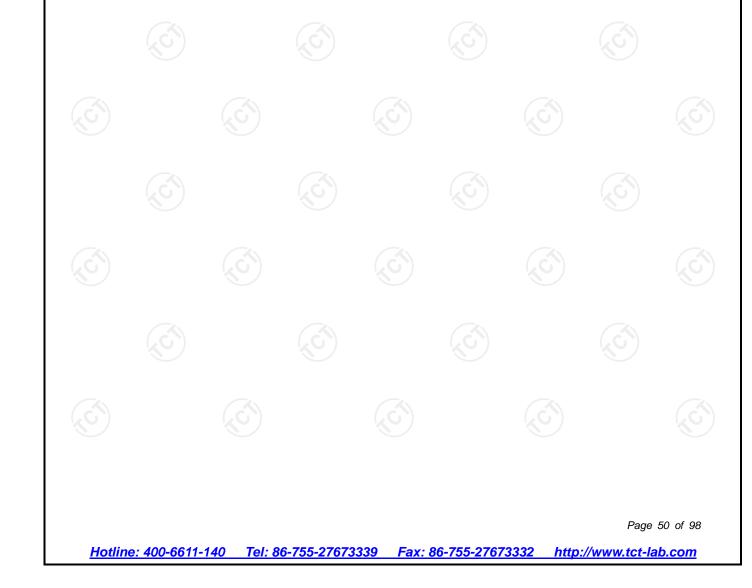
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Condition	Mode	Frequency	Hopping	Max Value	Limit	Verdict
		(MHz)	Mode	(dBc)	(dBc)	
NVNT	1-DH1	2402	No-Hopping	-52.20	-20	Pass
NVNT	1-DH1	2480	No-Hopping	-49.58	-20	Pass
NVNT	2-DH1	2402	No-Hopping	-52.12	-20	Pass
NVNT	2-DH1	2480	No-Hopping	-52.66	-20	Pass
NVNT	3-DH1	2402	No-Hopping	-53.27	-20	Pass
NVNT 🔇	3-DH1	2480	No-Hopping 🔇	-52.55	-20	Pass

Band Edge

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Report No.: TCT230717E008



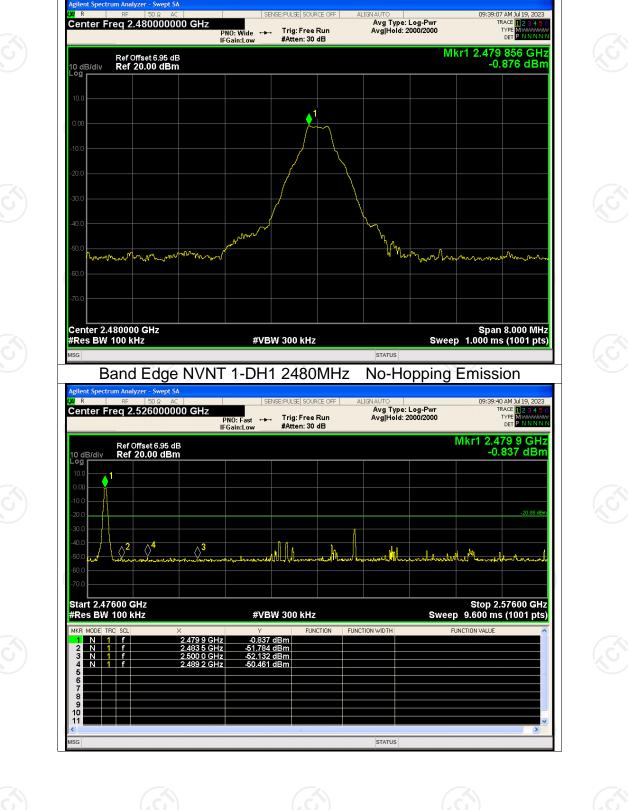
Band Edge NVNT 1-DH1 2402MHz No-Hopping Ref **U**R 15 AM TRACE TYPE DET AM Jul 19 pr EPULSE SOURCE OFF Center Freq 2.402000000 GHz Avg Type: Log-Pwr Avg|Hold: 2000/2000 PNO: Wide 🔸 Trig: Free Run IFGain:Low #Atten: 30 dB Mkr1 2.401 856 GHz 0.634 dBm Ref Offset 6.9 dB Ref 20.00 dBm 10 dB/div Log ▲1 AP' WWWww www. man www man $w \sim w \sim w$ 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** gilent Spectrum Analyzer - Swept SA 21:47 AM Jul 19, 2023 TRACE 123456 TYPE MWWWWW DET PNNNNN **U**R SENSE:PULSE SOUR Center Freq 2.356000000 GHz Avg Type: Log-Pwr Avg|Hold: 2000/2000 PNO: Fast ---- Trig: Free Run IFGain:Low #Atten: 30 dB Mkr1 2.401 9 GHz 0.627 dBm Ref Offset 6.9 dB Ref 20.00 dBm 10 dB/div Log 1 02 \Diamond^4 \Diamond^3 Stop 2.40600 GHz Sweep 9.600 ms (1001 pts) Start 2.30600 GHz #Res BW 100 kHz #VBW 300 kHz FUNCTION WIDTH FUNCTION FUNCTION VALUE -50.394 dBm -53.190 dBm -51.572 dBm GHz GHz N 5 8 9 10 11 STATUS

Test Graphs

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Report No.: TCT230717E008

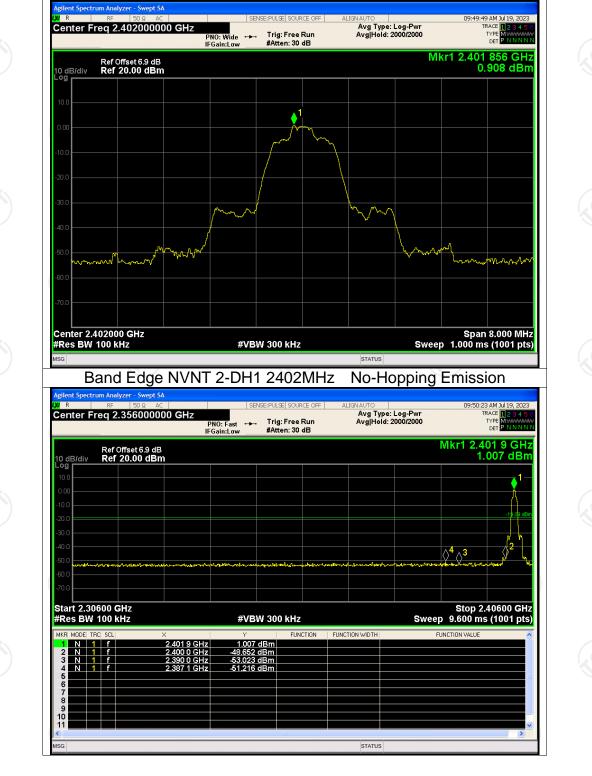
Page 51 of 98



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

Report No.: TCT230717E008

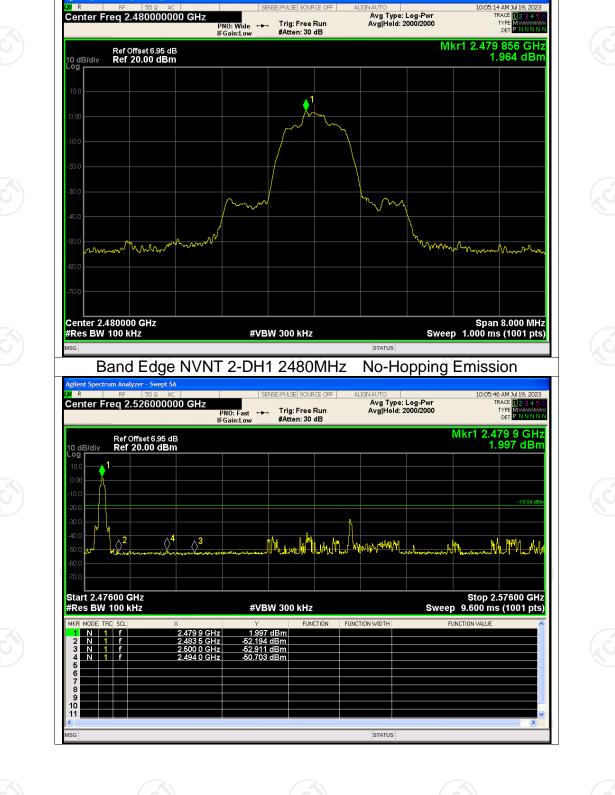
Page 52 of 98



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

Report No.: TCT230717E008

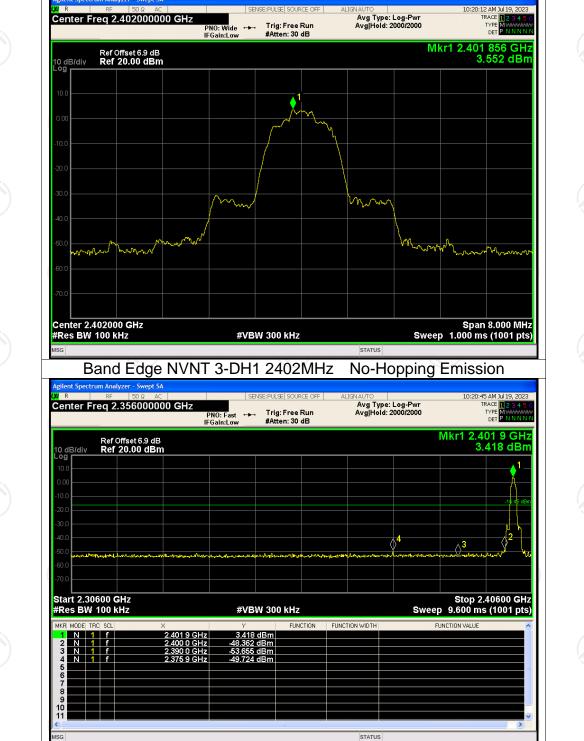
Page 53 of 98



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

Report No.: TCT230717E008

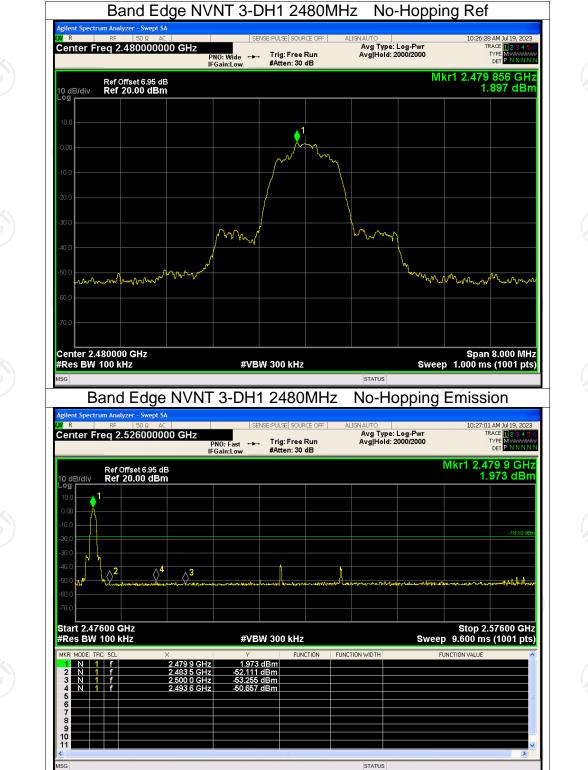
Page 54 of 98



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

Report No.: TCT230717E008

Page 55 of 98



Report No.: TCT230717E008

Page 56 of 98

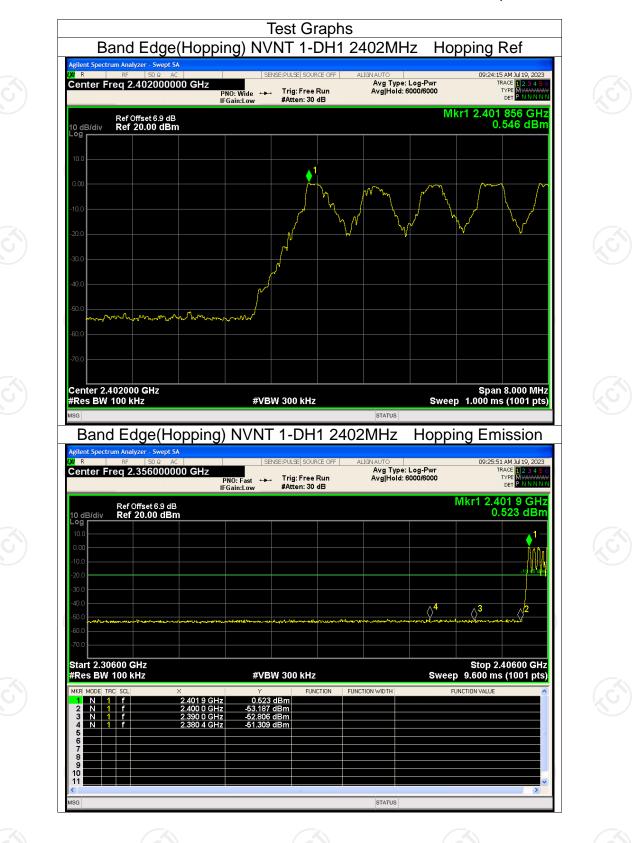


Condition	Mode	Frequency (MHz)	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	Hopping	-51.85	-20	Pass
NVNT	1-DH1	2480	Hopping	-49.64	-20	Pass
NVNT	2-DH1	2402	Hopping	-53.64	-20	Pass
NVNT	2-DH1	2480	Hopping	-52.77	-20	Pass
NVNT	3-DH1	2402	Hopping	-54.19	-20	Pass
NVNT 🔇	3-DH1	2480	Hopping	-52.92	-20	Pass

Report No.: TCT230717E008

Page 57 of 98

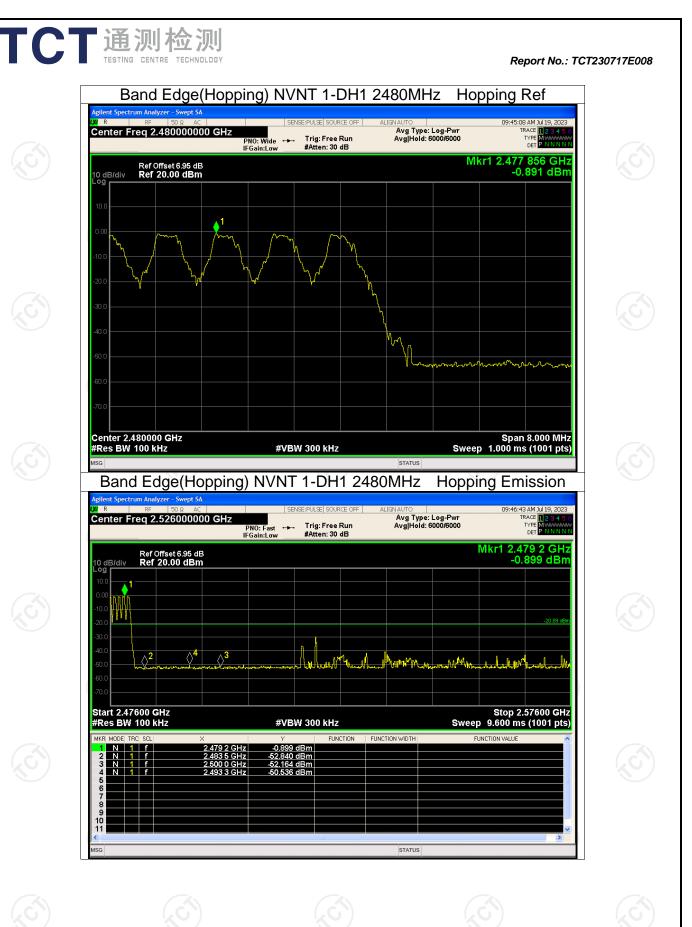




ICT通测检测

TESTING CENTRE TECHNOLOGY

Report No.: TCT230717E008







Page 60 of 98







Page 63 of 98

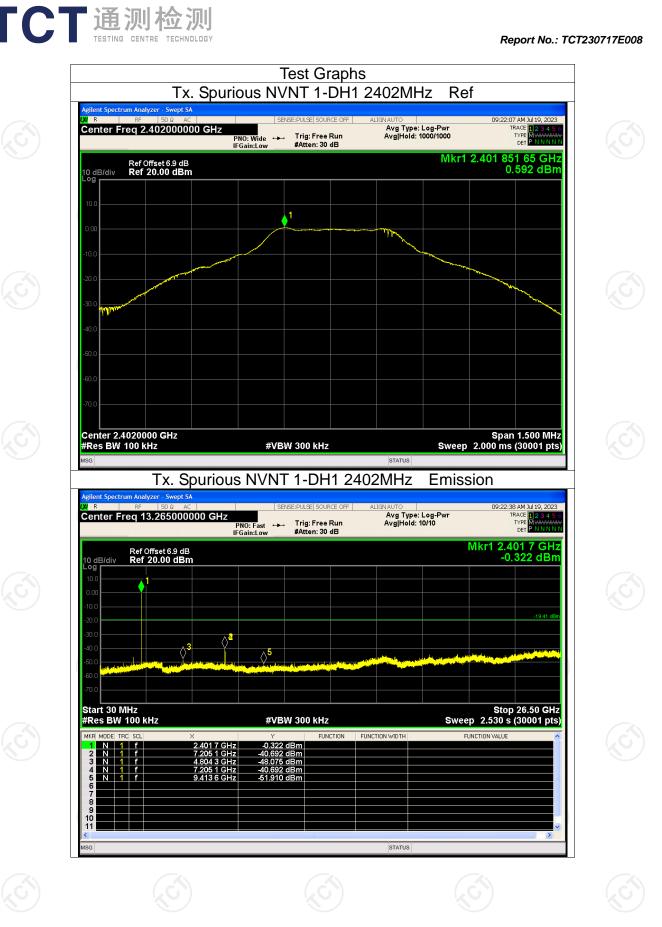


Condition	Mode	Frequency (MHz)	Max Value (dBc)	Limit (dBc)	Verdict				
NVNT	1-DH1	2402	-41.28	-20	Pass				
NVNT	1-DH1	2441	-38.97	-20	Pass				
	1-DH1	2480	-38.52	-20	Pass				
NVNT	2-DH1	2402	-40.64	-20	Pass				
NVNT	2-DH1	2441	-46.99	-20	Pass				
NVNT	2-DH1	2480	-42.09	-20	Pass				
NVNT 🔍	3-DH1	2402	-43.81	-20	Pass				
NVNT	3-DH1	2441	-42.46	-20	Pass				
NVNT	3-DH1	2480	-41.14	-20	Pass				
	(

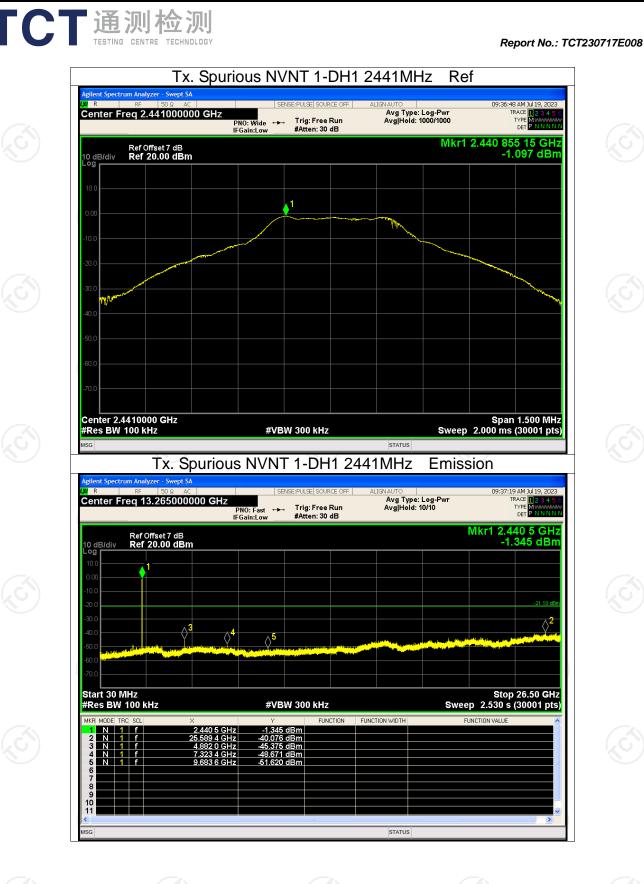


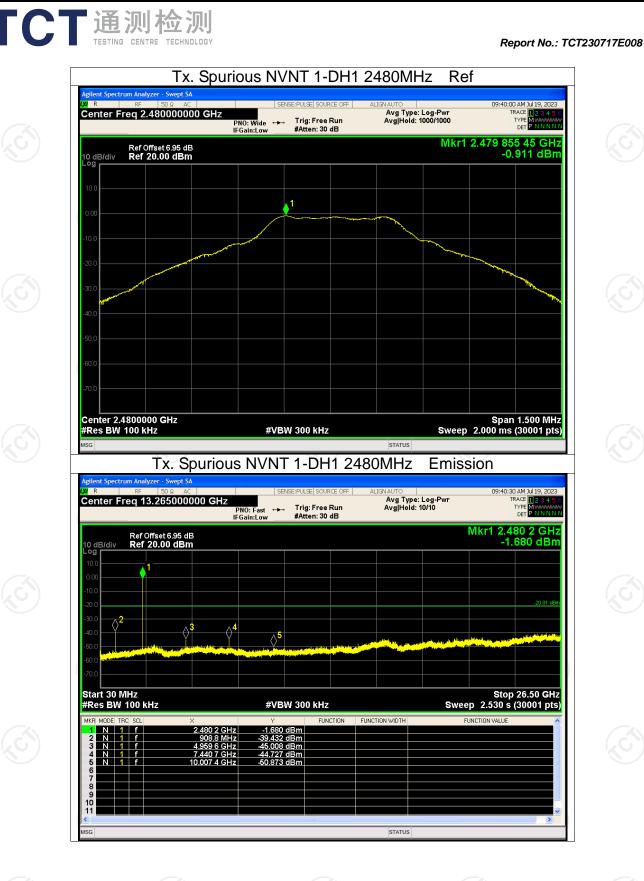
Report No.: TCT230717E008

Page 64 of 98

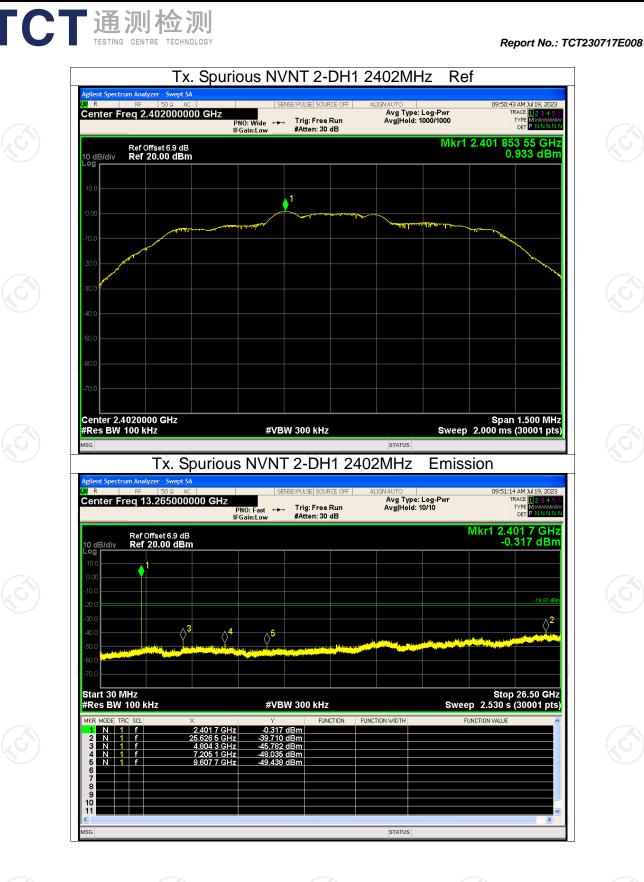


Page 65 of 98

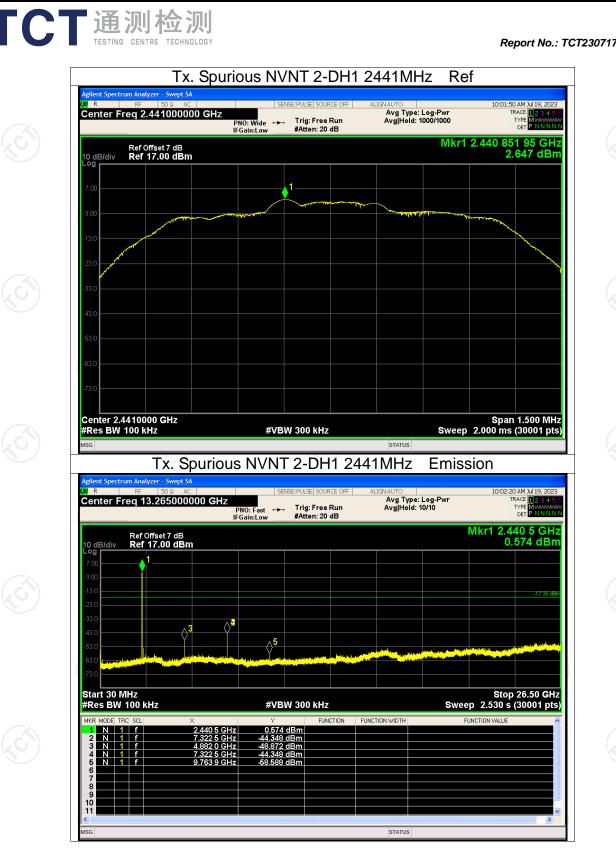




Page 67 of 98

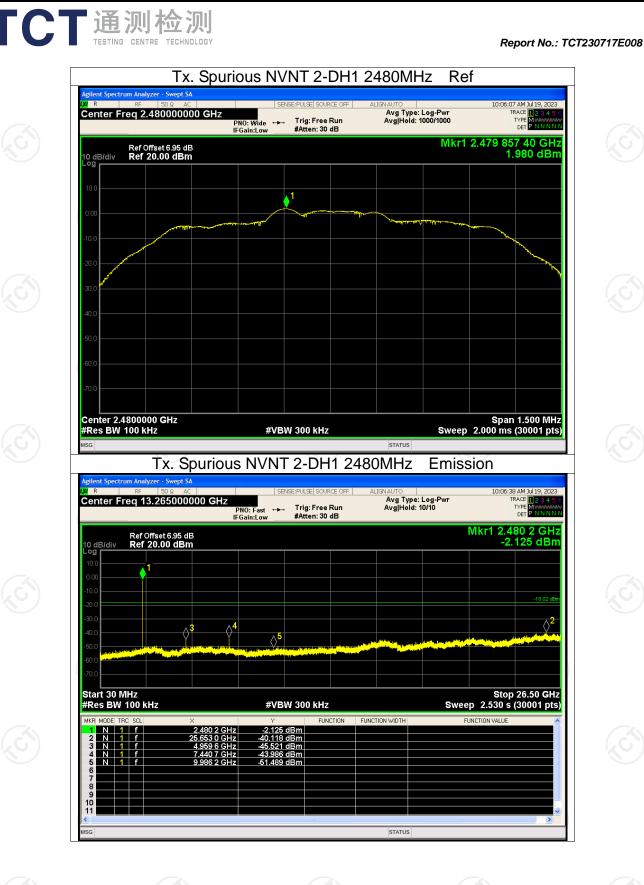


Page 68 of 98

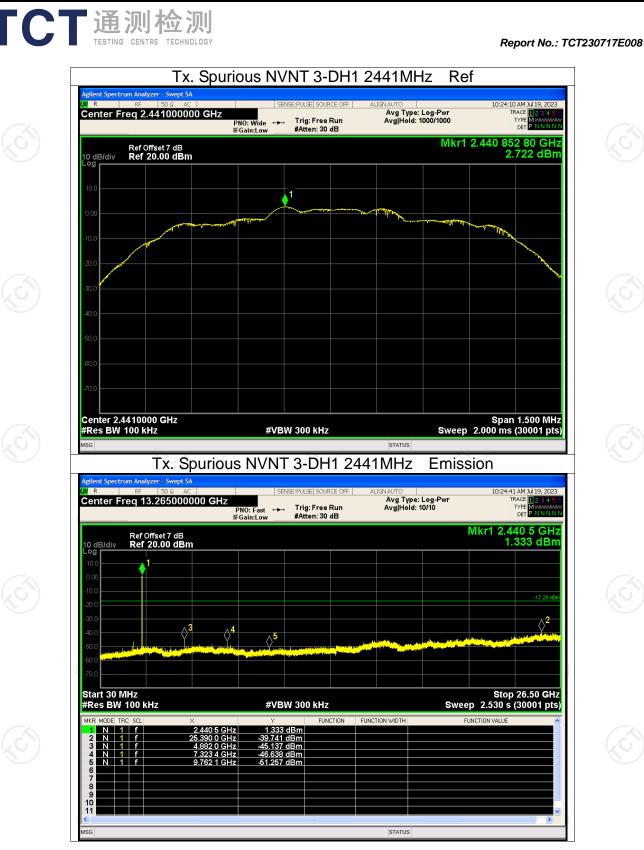


Page 69 of 98

Report No.: TCT230717E008

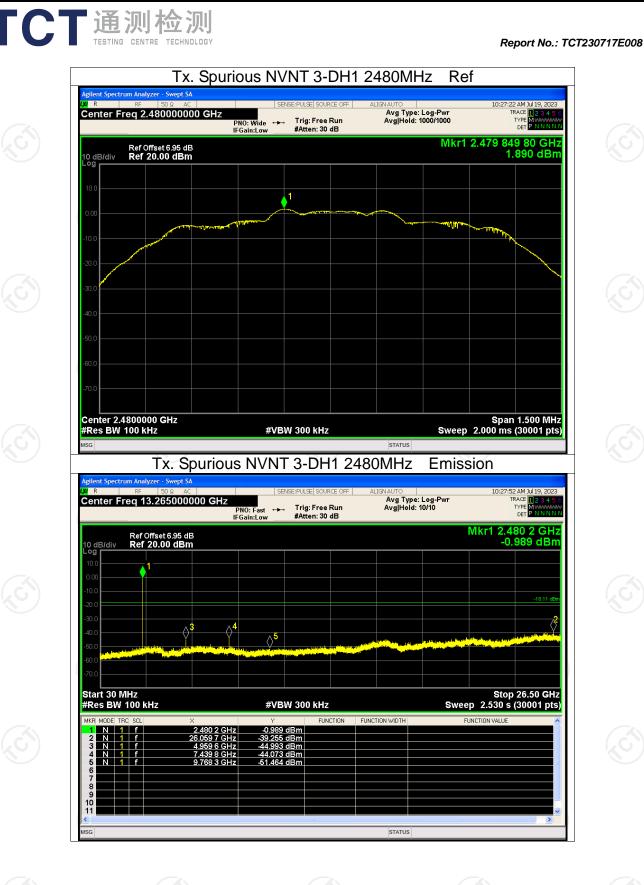




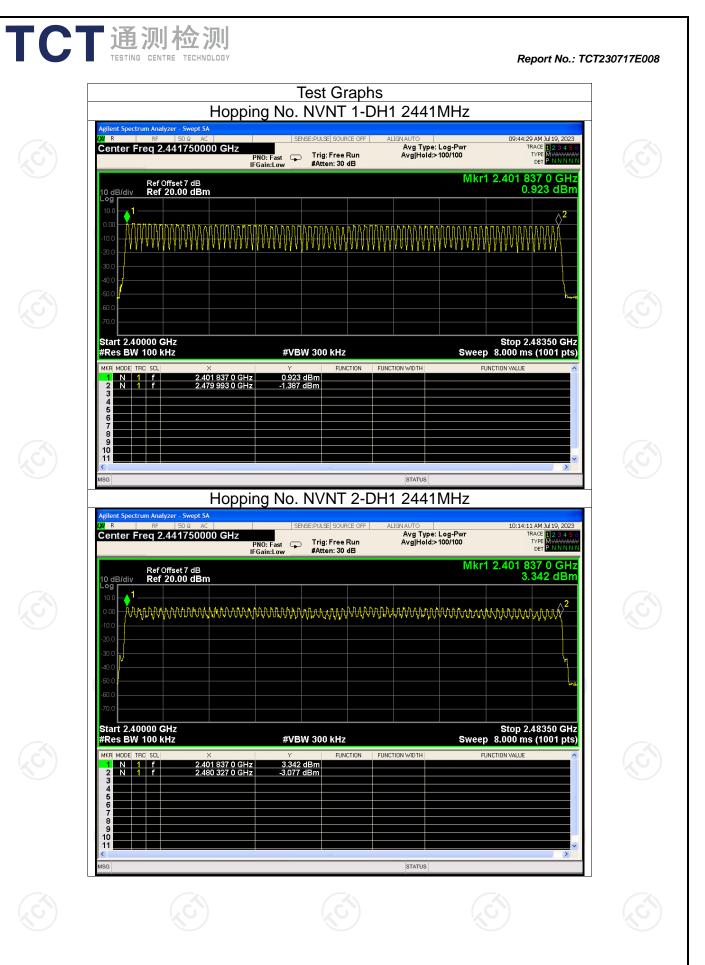




Page 72 of 98



TC	TESTING	则检测 CENTRE TECHNOLOGY				Rej	port No.: TCT2	230717E008
	Condition NVNT NVNT	No Mode 1-DH1 2-DH1		f Hoppin Hopping N 79 79	g Chann lumber	el Limit 15 15	Verd Pas Pas	S
	NVNT	3-DH1		79		15	Pas	S
Hotli	ne: 400-6611-	.140 Tel: 86	6-755-27673	3339 Fax:	<u>86-755-2767</u>	<u>3332 http:/</u>	Page //www.tct-la	74 of 98 1 b.com



.463 dBm	<u>10:33:35</u> wr ۳ 00 Mkr1 2,401 8:	ALIGNAUTO Avg Type: Log- Avg Hold>100/	ISE:PULSE SOURCE OFF Trig: Free Run #Atten: 30 dB	HZ PNO: Fast FGain:Low	Analyzer - Swept SA RE 50.0 AC 1 2.441750000 G ef Offset 7 dB ef 20.00 dBm	Center Fred Center Fred 10 dB/div F 10 dB/div F	
.48350 GHz s (1001 pts)	Stop 2. Sweep 8.000 ms FUNCTION VALUE		dBm	Y 0 GHz 2.463	0 KHZ CL X F 2.401 833	-20.0 -30.0 -40.0 -50.0 -50.0 -70.0 Start 2.4000 #Res BW 10 #Res BW 10 	
>		STATUS				8 9 10 11 MSG	

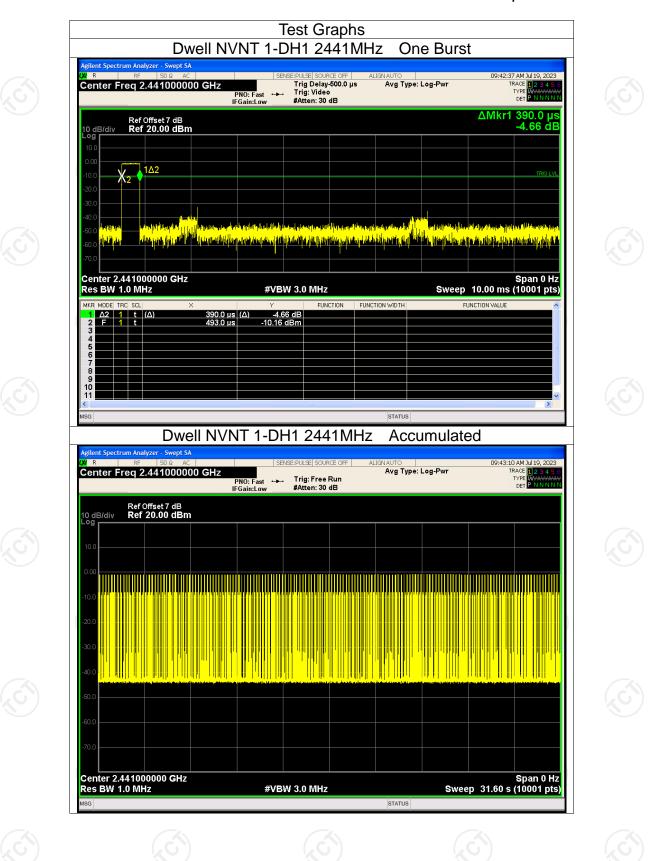
Hotline: 400-6611-140 Tel: 86-755-27673339 Fax: 86-755-27673332 http://www.tct-lab.com

Dwell Time									
Condition	Mode	Frequency (MHz)	Pulse Time	Total Dwell	Burst Count	Period Time	Limit (ms)	Verdict	
			(ms)	Time (ms)		(ms)			
NVNT	1-DH1	2441	0.39	124.41	319	31600	400	Pass	
NVNT	1-DH3	2441	1.65	257.40	156	31600	400	Pass	
NVNT	1-DH5	2441	2.89	297.67	103	31600	400	Pass	
NVNT 🔇	2-DH1	2441	0.40	200.40	501	31600	400	Pass	
NVNT	2-DH3	2441	1.65	273.90	166	31600	400	Pass	
NVNT	2-DH5	2441	2.90	307.40	106	31600	400	Pass	
NVNT	3-DH1	2441	0.40	126.00	315	31600	400	Pass	
NVNT	3-DH3	2441	1.65	264.00	160	31600	400	Pass	
NVNT	3-DH5	2441	2.90	298.70	103	31600	400	Pass	

Page 77 of 98

Report No.: TCT230717E008

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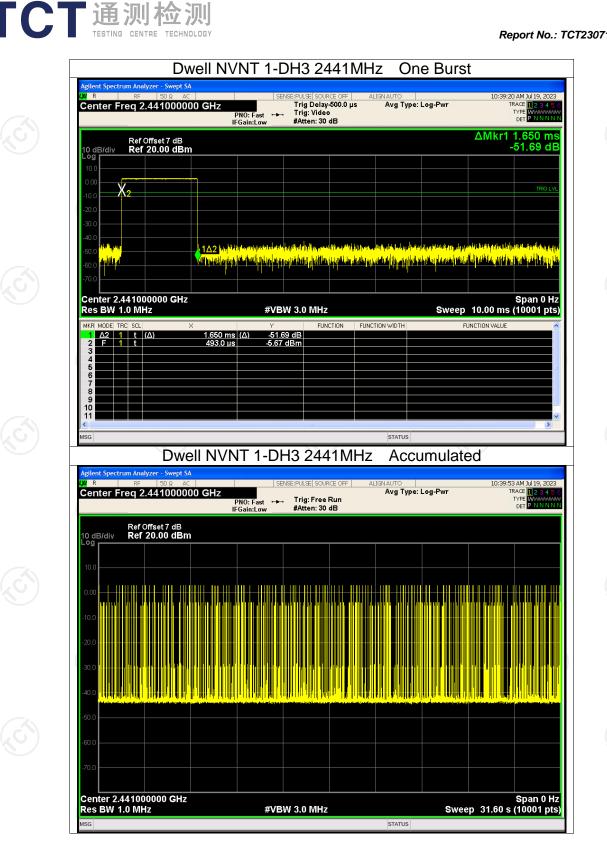


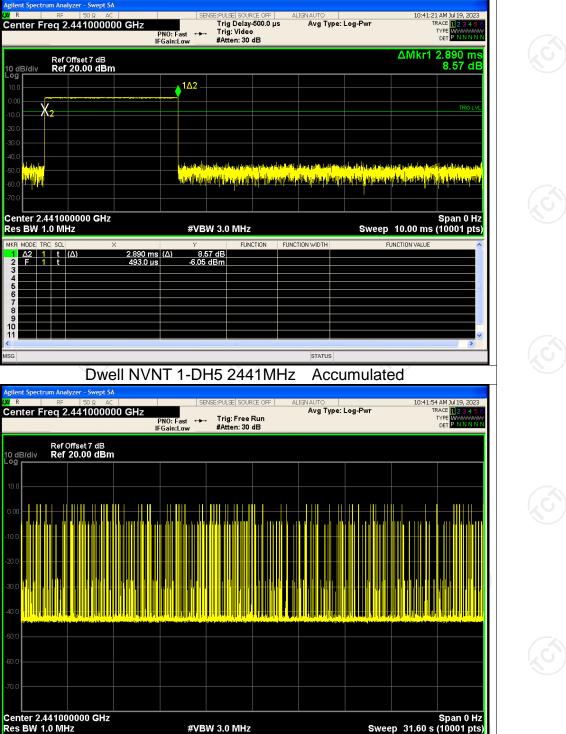
[CT通测检测

TESTING CENTRE TECHNOLOGY

Page 78 of 98

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STATUS

One Burst

Dwell NVNT 1-DH5 2441MHz

X2

MSG

10 dB/div Log

R

10 dB/div Log **r**

Report No.: TCT230717E008