	TEST REP	ORT			
FCC ID :	2AUARTKX14				
Test Report No:	TCT241009E017				
Date of issue:	Nov. 15, 2024				
Testing laboratory:	SHENZHEN TONGCE T	ESTING LAB			
Testing location/ address:	2101 & 2201, Zhenchang Factory Renshan Industrial Zone, Fuha Subdistrict, Bao'an District, Shenzhen, Guangdong, 518103, People's Republic of China				
Applicant's name::	THINKCAR TECH CO., I	_TD.			
Address:	2606, building 4, phase II, TiananYungu, Gangtou community, Bantian, Longgang District, Shenzhen, China				
Manufacturer's name :	THINKCAR TECH CO., I	_TD.			
Address:	2606, building 4, phase II, TiananYungu, Gangtou community, Bantian, Longgang District, Shenzhen, China				
Standard(s)	FCC CFR Title 47 Part 15 Subpart C Section 15.247 FCC KDB 558074 D01 15.247 Meas Guidance v05r02 ANSI C63.10:2020				
Product Name::	AI Automotive Diagnostic	c Tool			
Trade Mark:	THINKCAR, XHINKCAR	, MUCAR			
Model/Type reference :	TKX14				
Rating(s):	Refer to EUT description	of page 3	6		
Date of receipt of test item	Oct. 09, 2024	C			
Date (s) of performance of test:	Oct. 09, 2024 ~ Nov. 15, 2024				
Tested by (+signature) :	Onnado YE	Onna	0 KAONGC	E THE	
Check by (+signature) :	Beryl ZHAO	Bart	水 愛 TC	TING	
Approved by (+signature):	Tomsin	Tom	Sm #s	54	

TESTING LAB personnel only, and shall be noted in the revision section of the document. The test results in the report only apply to the tested sample.

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1. General Product Information

1.1. EUT description

Product Name	:	AI Automo	otive Diagno	ostic Tool	(\mathbf{c}^{*})		(3)
Model/Type refere	ence:	TKX14					
Sample Number	·····:	TCT24100)9E017-01()1			
Bluetooth Versior	າ:	V5.1(This	report is fo	r BDR+ED	R)	S S	
Operation Freque	ncy:	2402MHz	~2480MHz				
Fransfer Rate	:	1/2/3 Mbit	s/s		$\langle \mathcal{O} \rangle$		
Number of Chann	el:	79					
Modulation Type.	:	GFSK, π/4	1-DQPSK,	BDPSK			
Modulation Techr	nology:	FHSS					
Antenna Type	:	PIFA Ante	nna				
Antenna Gain	:	2.79dBi					
Rating(s)	:	MODEL: F Input: AC Output: DO 1 Total: 67.0 Recharges	able Li-ion	50-60Hz, 2 A/ 9.0V, 3. 20.0V, 3.3 Battery DC	0A/ DC 12 35A 7.6V		Ì
lote: The antenna gair this parameter.	n listed in this re	eport is provid	led by applica	ant, and the f	test laboratoi	ry is not respo	onsible for
1.2. Model(s)) list						
None.							
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Report No.: TCT241009E017

1.3. Operation Frequency

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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		·		·		·	
10	2412MHz	30	2432MHz	50	2452MHz	70	2472MHz
11	2413MHz	31	2433MHz	51	2453MHz	71	2473MHz
	S		.		S		
18	2420MHz	38	2440MHz	58	2460MHz	78	2480MHz
19	2421MHz	- 39	2441MHz	- 59	2461MHz		-
Remark:	Channel 0, 3	39 & 78 ha	ave been tes	sted for G	GFSK. π/4-D	QPSK. 8	DPSK

Remark: Channel 0, 39 & 78 have been tested for GFSK, $\pi/4$ -DQPSK, 8DPSP modulation mode.



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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)(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:	23.1 °C	25.3 °C			
Humidity:	53 % RH	55 % RH			
Atmospheric Pressure:	1010 mbar	1010 mbar			
Test Software:					

Software Information:	SecureCRT	C.	
Power Level:	Default		

Test Mode:

Engineer 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.

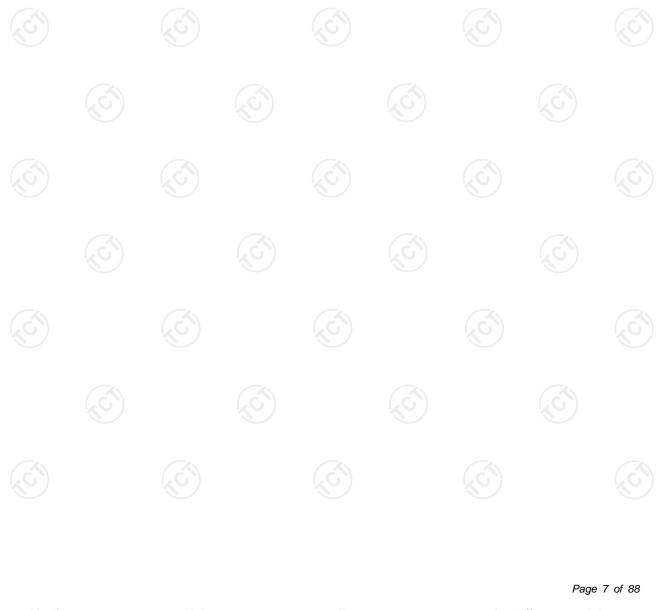
3.2. Description of Support Units

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
	1		/	

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
- 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

Standard requirement: FCC Part15 C Section 15.203 /247(c)

15.203 requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

15.247(c) (1)(i) requirement:

(i) Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.

E.U.T Antenna:

The Bluetooth antenna is PIFA antenna which permanently attached, and the best case gain of the antenna is 2.79dBi.



Antenna

5.2. Conducted Emission

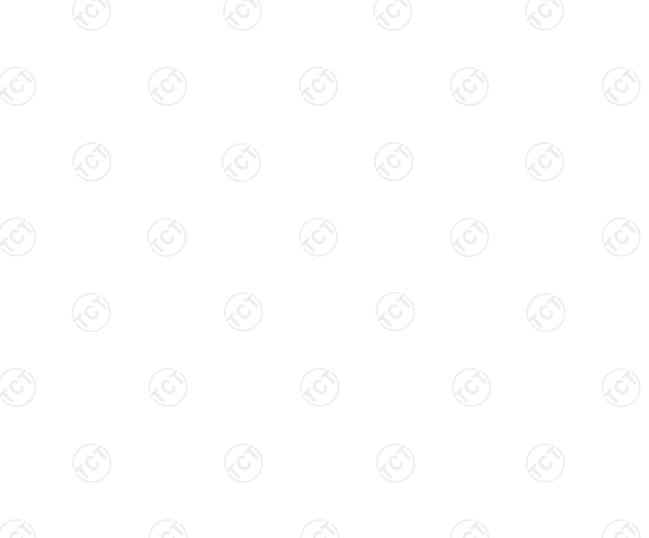
5.2.1. Test Specification

Test Requirement:	FCC Part15 C Section	15.207	
Test Method:	ANSI C63.10:2020		
Frequency Range:	150 kHz to 30 MHz		
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
	Referenc	e Plane	
Test Setup:	E.U.T AC powe Test table/Insulation plane	Filter	r _— AC power
	E.U.T: Equipment Under Test LISN: Line Impedence Stabilization No Test table height=0.8m	etwork	
Test Mode:	LISN: Line Impedence Stabilization No		
Test Mode: Test Procedure:	 LISN: Line Impedence Stabilization Na Test table height=0.8m Charging + Transmittin The E.U.T is conne impedance stabiliz provides a 50ohm/5 measuring equipme The peripheral device power through a Ll coupling impedance refer to the block photographs). Both sides of A.C. conducted interferent emission, the relative the interface cables 	ng Mode octed to an adapte ation network 50uH coupling im nt. ces are also conne ISN that provides with 50ohm tern diagram of the line are checke nce. In order to fin e positions of equi must be changed	(L.I.S.N.). Thi ppedance for the ected to the mai s a 500hm/50ul nination. (Pleas test setup an ed for maximur nd the maximur ipment and all of according to
	 LISN: Line Impedence Stabilization Na Test table height=0.8m Charging + Transmittin The E.U.T is connelimpedance stabilizing provides a 500hm/5 measuring equipme The peripheral device power through a Line coupling impedance reference to the block photographs). Both sides of A.C. conducted interference emission, the relative 	ng Mode octed to an adapte ation network 50uH coupling im nt. ces are also conne ISN that provides with 50ohm tern diagram of the line are checke nce. In order to fin e positions of equi must be changed	(L.I.S.N.). Thi pedance for the ected to the mains a 500hm/50ut nination. (Please test setup and ed for maximum nd the maximum ipment and all of according to

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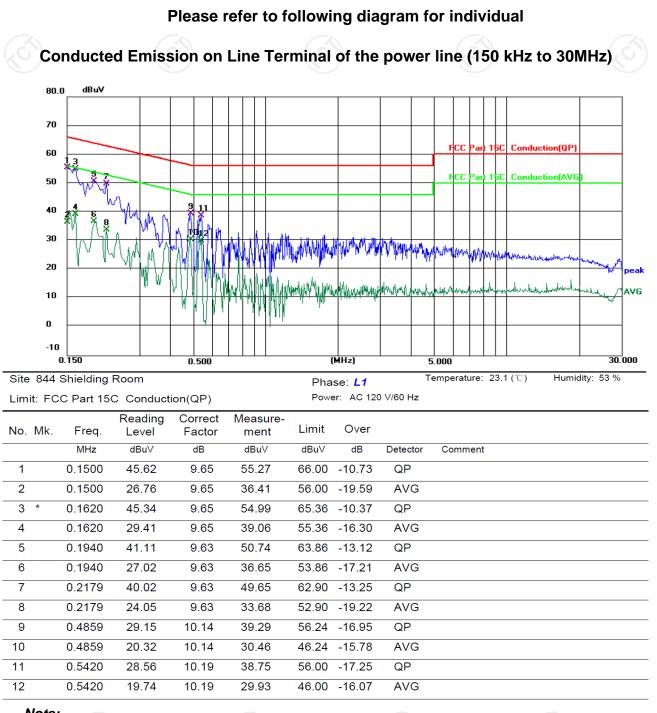
5.2.2. Test Instruments

Equipment	Manufacturer	Model	Serial Number	Calibration Due
EMI Test Receiver	R&S	ESCI3	100898	Jun. 26, 2025
LISN	Schwarzbeck	NSLK 8126	8126453	Jan. 31, 2025
Attenuator	N/A	10dB	164080	Jun. 26, 2025
Line-5	тст	CE-05	/	Jun. 26, 2025
EMI Test Software	EZ_EMC	EMEC-3A1	1.1.4.2	1



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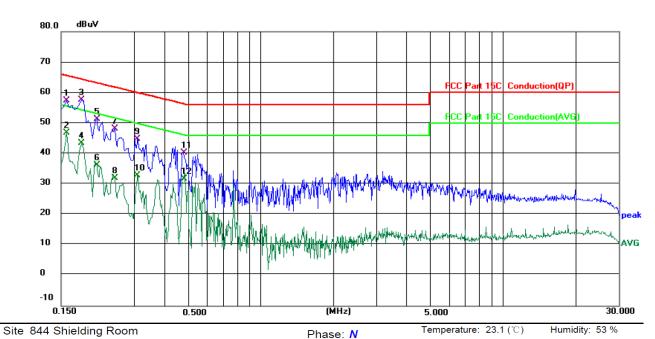
5.2.3. Test data



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 $(dB\mu V)$ – Limits $(dB\mu V)$ 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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Power: AC 120 V/60 Hz

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

Limit: FCC Part 15C Conduction(QP)

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Reading Correct Measure-Limit Over No. Mk. Freq. Level Factor ment MHz dBuV dB dBuV dBuV dB Detector Comment QP 1 0.1580 47.72 9.65 57.37 65.57 -8.20 2 0.1580 37.25 9.65 46.90 55.57 -8.67 AVG 3 * 0.1819 47.90 9.64 57.54 64.40 -6.86 QP 0.1819 33.77 54.40 -10.99 AVG 9.64 43.41 4 5 0.2100 41.78 9.63 51.41 63.21 -11.80 QP 0.2100 26.57 36.20 53.21 -17.01 AVG 6 9.63 7 0.2500 38.56 9.63 48.19 61.76 -13.57 QP 8 0.2500 22.25 9.63 31.88 51.76 -19.88 AVG 0.3100 59.97 -15.22 QP 35.11 44.75 9 9.64 10 0.3100 23.17 9.64 32.81 49.97 -17.16 AVG 0.4779 QP 11 30.26 10.13 40.39 56.38 -15.99 12 0.4779 10.13 46.38 -14.67 AVG 21.58 31.71

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

* 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 (Highest channel and 8DPSK) was submitted only.



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. 26, 2025
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. 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 S

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		/





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. 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

		1	20	
Name	Manufacturer	Model No.	Serial Number	Calibration Due
Spectrum	Agilent	N9020A	MY49100619	Jun. 26, 2025
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. 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. 26, 2025
Combiner Box	Ascentest	AT890-RFB	/	1

5.7.1. Test Specification

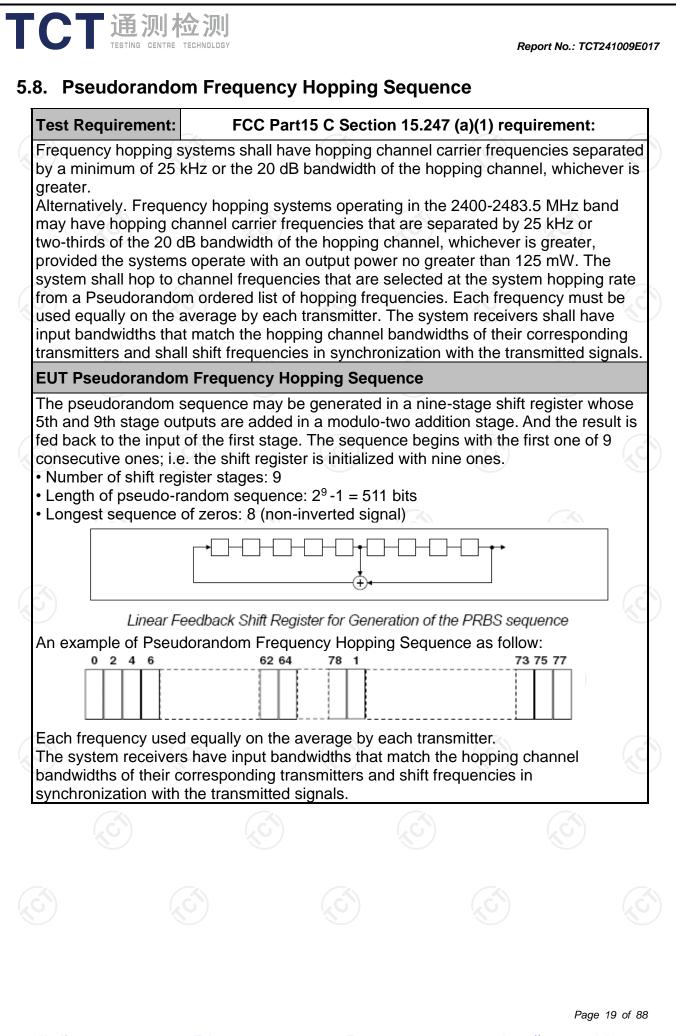
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Test Requirement:	FCC Part15 C Section 15.247 (a)(1)
Test Method:	KDB 558074 D01 v05r02
Limit:	The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels 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. 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. 26, 2025
Combiner Box	Ascentest	AT890-RFB		

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5.9. Conducted Band Edge Measurement

5.9.1. Test Specification

FCC Part15 C Section 15.247 (d)
KDB 558074 D01 v05r02
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.
Spectrum Analyzer
Transmitting mode with modulation
 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.
PASS

5.9.2. Test Instruments

Name	Manufacturer	Model No.	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	N9020A	MY49100619	Jun. 26, 2025
Combiner Box	Ascentest	AT890-RFB	S 1	



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
Test Mode:	Transmitting mode with modulation
Test Procedure:	 The RF output of EUT was connected to the spectrum analyzer by RF cable. 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

				L.C.C
Name	Manufacturer	Model No.	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	N9020A	MY49100619	Jun. 26, 2025
Combiner Box	Ascentest	AT890-RFB		

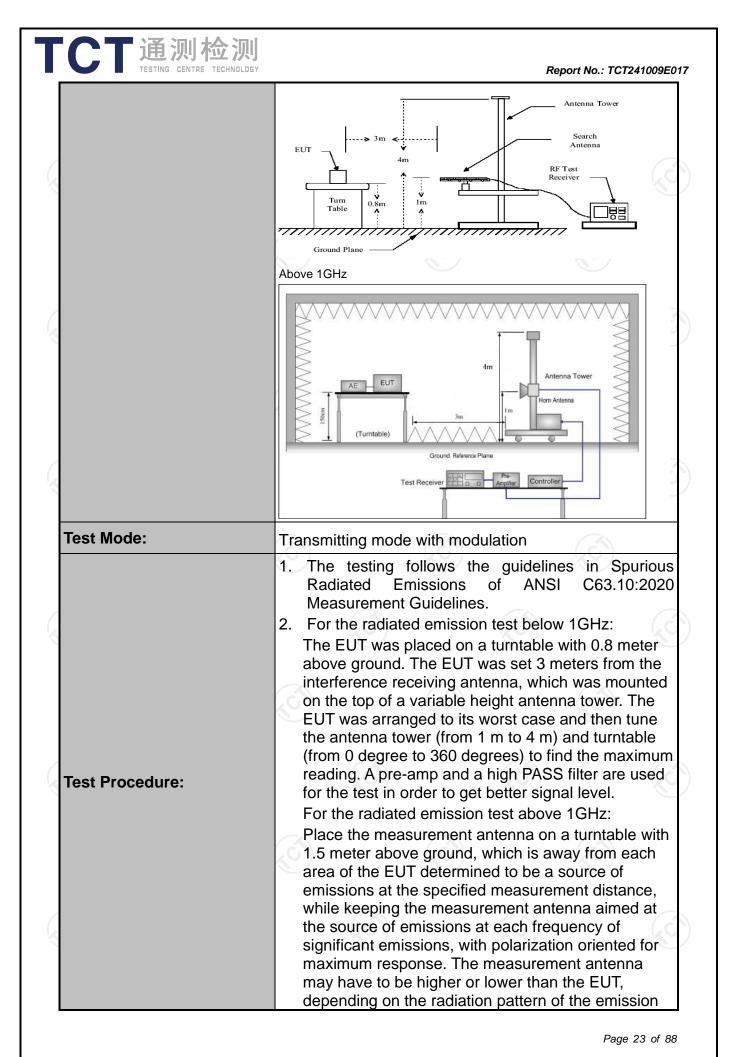
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5.11.1. Test Specification

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	FCC Part15	C Section	15.209			
Test Method:	ANSI C63.10):2020				
Frequency Range:	9 kHz to 25 (GHz	Z			i)
Measurement Distance:	3 m		9		R.)
Antenna Polarization:	Horizontal &	Vertical				
	Frequency	Detector	RBW	VBW		Remark
	9kHz- 150kHz	Quasi-peak	200Hz	1kHz	Quas	i-peak Value
Receiver Setup:	150kHz- 30MHz	Quasi-peak	k 9kHz	30kHz	Quas	i-peak Value
	30MHz-1GHz	Quasi-peak	120KHz	300KHz	Quas	i-peak Value
	Above 1GHz	Peak	1MHz	3MHz		eak Value
	Above TGTIZ	Peak	1MHz	10Hz	Ave	rage Value
			Field Str	ength	Mea	asurement
	Frequen	су	(microvolts	/meter)	Dista	nce (meters)
	0.009-0.4	490	2400/F(I			300
	0.490-1.7		24000/F	(KHz)		30
	1.705-3		30			30
	30-88	1	100			3
Limit:	88-216		150		16	3
Linit.	216-96 Above 9		<u>200</u> 500			3
	Frequency Above 1GH:	(micro	500 500	Distan (meter 3 3		Detector Average Peak
Test setup:	0.Sm	ssions below stance = 3m Turn table Ground			Comput	
	30MHz to 1GHz					



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	receiving the maximum measurement antention maximizes the emission antenna elevation for restricted to a range above the ground or 3. Set to the maximum EUT transmit contin 4. Use the following sp (1) Span shall wide emission being (2) Set RBW=120 k for f>1GHz ; VB Sweep = auto; = max hold for (3) For average ma correction factor 15.35(c). Duty of	na elevation shall be sions. The measurem of maximum emissions of heights of from 1 r reference ground pla m power setting and huously. bectrum analyzer setti e enough to fully captu measured; kHz for f < 1 GHz, RB W≥RBW; Detector function = p peak easurement: use duty	that which ent s shall be n to 4 m ane. enable the ings: ure the W=1MHz beak; Trace y cycle
	Where N1 is no length of type Average Emiss Level + 20*log Corrected Read	umber of type 1 pulse 1 pulses, etc. sion Level = Peak Em (Duty cycle) ling: Antenna Factor +	es, L1 is hission + Cable
Test results:	Where N1 is no length of type Average Emiss Level + 20*log Corrected Read	umber of type 1 pulse 1 pulses, etc. sion Level = Peak Em (Duty cycle)	es, L1 is hission + Cable
Test results:	Where N1 is no length of type Average Emiss Level + 20*log Corrected Read Loss + Read Le	umber of type 1 pulse 1 pulses, etc. sion Level = Peak Em (Duty cycle) ling: Antenna Factor +	es, L1 is hission + Cable
Test results:	Where N1 is no length of type Average Emiss Level + 20*log Corrected Read Loss + Read Le	umber of type 1 pulse 1 pulses, etc. sion Level = Peak Em (Duty cycle) ling: Antenna Factor +	es, L1 is hission + Cable
Test results:	Where N1 is no length of type Average Emiss Level + 20*log Corrected Read Loss + Read Le	umber of type 1 pulse 1 pulses, etc. sion Level = Peak Em (Duty cycle) ling: Antenna Factor +	es, L1 is hission + Cable



5.11.2. Test Instruments

TCT 通测检测 TESTING CENTRE TECHNOLOGY

Manufacturer	Radiated Emission Test Site (966) Name of Serial										
	Model	Serial Number	Calibration Due								
R&S	ESCI7	100529	Jan. 31, 2025								
R&S	FSQ40	200061	Jun. 26, 2025								
HP	8447D	2727A05017	Jun. 26, 2025								
SKET	LNPA_0118G- 45	SK202101210 2	Jan. 31, 2025								
SKET	LNPA_1840G- 50	SK202109203 500	Jan. 31, 2025								
Schwarzbeck	FMZB1519B	00191	Jun. 26, 2025								
Schwarzbeck	VULB9163	340	Jun. 28, 2025								
Schwarzbeck	BBHA 9120D	631	Jun. 28, 2025								
Schwarzbeck	BBHA 9170	00956	Feb. 02, 2025								
SKET	RE-03-D	/	Jun. 26, 2025								
SKET	RE-03-M	1	Jun. 26, 2025								
SKET	RE-03-L	/	Jun. 26, 2025								
SKET	RE-04-D		Jun. 26, 2025								
SKET	RE-04-M	/	Jun. 26, 2025								
SKET	RE-04-L	/	Jun. 26, 2025								
Keleto	RE-AM	21									
EZ_EMC	FA-03A2 RE+	1.1.4.2	/								
	R&S HP SKET SKET SChwarzbeck Schwarzbeck Schwarzbeck Schwarzbeck Schwarzbeck SKET SKET SKET SKET SKET SKET SKET	R&SFSQ40HP8447DSKETLNPA_0118G- 45SKETLNPA_1840G- 50SchwarzbeckFMZB1519BSchwarzbeckFMZB1519BSchwarzbeckBBHA 9120DSchwarzbeckBBHA 9170SKETRE-03-DSKETRE-03-DSKETRE-03-LSKETRE-04-DSKETRE-04-LKeletoRE-04-L	R&S FSQ40 200061 HP 8447D 2727A05017 SKET LNPA_0118G- 45 SK202101210 2 SKET LNPA_1840G- 50 SK202109203 500 Schwarzbeck FMZB1519B 00191 Schwarzbeck FMZB1519B 00191 Schwarzbeck BBHA 9120D 631 Schwarzbeck BBHA 9170 00956 SKET RE-03-D / SKET RE-03-M / SKET RE-03-L / SKET RE-04-D / SKET RE-04-M / SKET RE-04-M / SKET RE-04-M /								





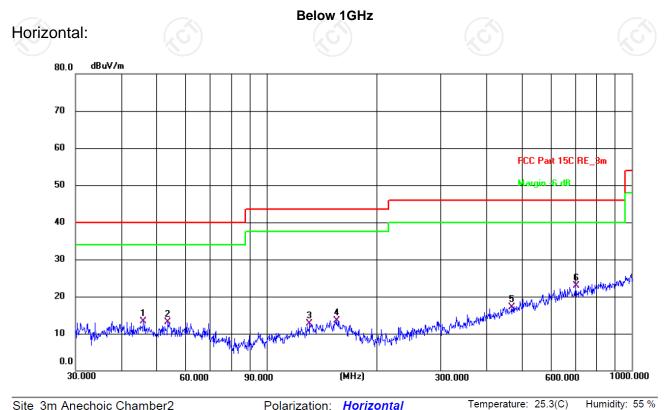


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5.11.3. Test Data

Please refer to following diagram for individual

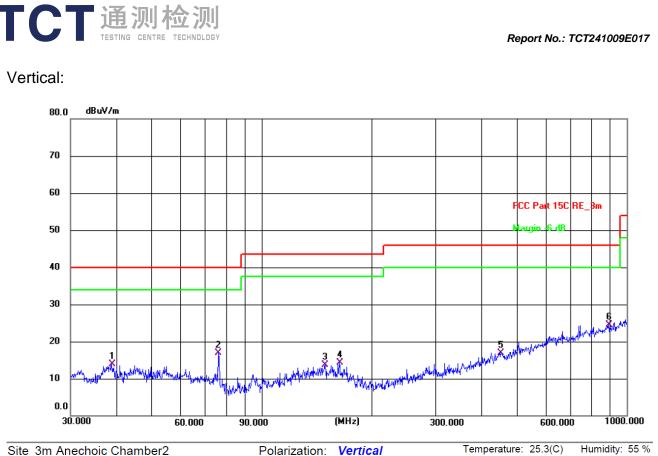


Site 3m Anechoic Chamber2 Limit: ECC Part 15C RE 3m

Polarization: Horizontal

Ļim	it: F	CC Part 15C F	RE_3m				Power:	DC 7.6 V	,	
N	lo.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
·	1	46.0162	31.94	-18.67	13.27	40.00	-26.73	QP	Ρ	
	2	53.6931	32.11	-18.98	13.13	40.00	-26.87	QP	Ρ	
	3	131.2965	31.01	-18.38	12.63	43.50	-30.87	QP	Ρ	
4	4	155.3643	30.46	-16.94	13.52	43.50	-29.98	QP	Ρ	
(5	468.8762	30.20	-13.09	17.11	46.00	-28.89	QP	Ρ	
6) *	701.7610	31.54	-8.70	22.84	46.00	-23.16	QP	Ρ	

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Polarization: Vertical

Power: DC 7.6 V

Limit: FCC Part 15C RE_3m

1										
	No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
Γ	1	38.8878	32.31	-18.50	13.81	40.00	-26.19	QP	Ρ	
Γ	2	76.2442	38.29	-21.35	16.94	40.00	-23.06	QP	Ρ	
Γ	3	149.4857	30.97	-17.36	13.61	43.50	-29.89	QP	Ρ	
Γ	4	163.1818	31.78	-17.38	14.40	43.50	-29.10	QP	Ρ	
	5	451.1350	30.49	-13.50	16.99	46.00	-29.01	QP	Ρ	
	6 *	890.7278	30.72	-6.25	24.47	46.00	-21.53	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 (Highest 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

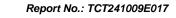
Over $(dB) = Measurement (dB\mu V/m) - Limits (dB\mu V/m)$

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

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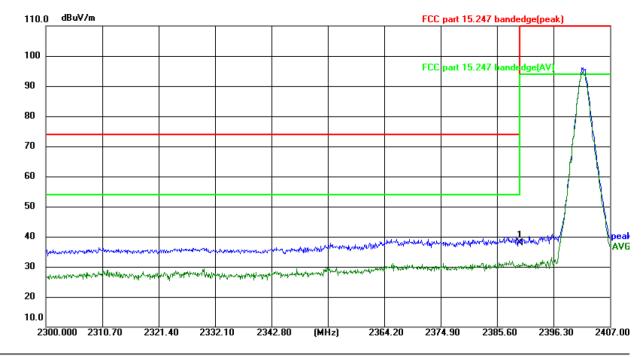
Report No.: TCT241009E017 Test Result of Radiated Spurious at Band edges Lowest channel 2402: Horizontal: 110.0 dBuV/m FCC part 15.247 bandedge(peak) 100 andedge(AV FCC part 15.247 90 80 70 60 50 40 XM All the second of eak AVG 30 web, the web and the state the second states and the March att popula monder month harry mound 20 10.0 2321.40 2300.000 2310.70 2332.10 2342.80 (MHz) 2364.20 2374.90 2385.60 2396.30 2407.00 Temperature: 24.8(℃) Humidity: 51 % Site: 3m Anechoic Chamber Polarization: Horizontal Limit: FCC part 15.247 bandedge(peak) Power:DC 7.6V Reading Factor Level Limit Margin Frequency P/F No. Detector Remark (MHz) (dBuV) (dB/m) (dBuV/m) (dBuV/m) (dB) 1 * 2390.000 53.09 -16.70 36.39 74.00 -37.61 Ρ peak Page 28 of 88

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Vertical:

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 Site: 3m Anechoic Chamber
 Polarization:
 Vertical
 Temperature: 24.8(°C)
 Humidity: 51 %

 Limit: FCC part 15.247bandedge(peak)
 Power:DC 7.6V
 Power:DC 7.6V

No.	Frequency (MHz)	Reading (dBuV)		Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1 *	2390.000	54.51	-16.70	37.81	74.00	-36.19	peak	Ρ	



Page 29 of 88

Report No.: TCT241009E017 Highest channel 2480: Horizontal: dBuV/m 110.0 100 90 80 FCC part 15.247 ndedge(peak) 70 60 FCC part 15.247 bandedge(AV 50 40 annu Muha 30 representation and more many the What when when ave als de market 20 10.0 2475.000 2478.00 2481.00 2484.00 2487.00 (MHz) 2493.00 2496.00 2499.00 2502.00 2505.00 Temperature: 24.8(℃) Humidity: 51 % Site: 3m Anechoic Chamber Polarization: Horizontal Limit: FCC part 15.247 bandedge(peak) Power:DC 7.6V Reading Factor Level Limit Frequency Margin Detector P/F No. Remark (MHz) (dBuV) (dB/m) (dBuV/m) (dBuV/m) (dB) 1 * 2483.500 62.42 -16.65 45.77 74.00 -28.23 Ρ peak Page 30 of 88

) dBuV/m	110.0	
												110.0	
		+										100	t
		+										90	!
												80	۱
	dedge(peak)	17 ba	part 15.247	FLL						<u> </u>	,	70	;
												60	t
	dedge(AV)	17 ba	part 15.247	FCC								50	
								N. C.	7				
mbrehan		mm		*******	****-********	land the state of the	Marrie Married	Jan marine mer			and the second second	40	
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		+										20	
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									31.00 24				
250: /: 51 %			16.00 24 1ture: 24.8(Те	al	on: Vertic	Polarizati		Chamber	Anechoic (3m /	
		B(℃)		mpera	Те	al ower:DC Margin	on: Vertic Po Limit	Polarizati) Level	dge(peak Factor	Chamber 247 bande Reading	Anechoic (C part 15.2 [.] equency	3m / FC(nit:
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y: 51 %	Humid	B(℃) rk	ture: 24.8(Remarl	mpera P/F P	Te 7.6V Detector peak	al ower:DC Margin (dB) -23.35	on: Vertic Pro Limit (dBuV/m) 74.00	Polarizatio Level (dBuV/m) 50.65	dge(peak Factor (dB/m) -16.65	Chamber 247 bande Reading	Anechoic (C part 15.2 equency (MHz) 483.500	3m / FC(Fr	nit: o. *
y: 51 %	Humid	B(℃) rk	ture: 24.8(Remarl	mpera P/F P	Te 7.6V Detector peak	al ower:DC Margin (dB) -23.35	on: Vertic Pro Limit (dBuV/m) 74.00	Polarizatio Level (dBuV/m) 50.65	dge(peak Factor (dB/m) -16.65 ducted in a	Chamber 247 bande Reading (dBuV) 67.30	Anechoic (C part 15.2 equency (MHz) 483.500 asurements	3m / FCC Fr 2 <i>Mea</i>	nit: o. *
y: 51 %	Humid	B(℃) rk	ture: 24.8(Remarl	mpera P/F P	Te 7.6V Detector peak	al ower:DC Margin (dB) -23.35	on: Vertic Pro Limit (dBuV/m) 74.00	Polarizatio Level (dBuV/m) 50.65	dge(peak Factor (dB/m) -16.65 ducted in a	Chamber 247 bande Reading (dBuV) 67.30 s were cond	Anechoic (C part 15.2 equency (MHz) 483.500 asurements	3m / FCC Fr 2 <i>Mea</i>	nit: o. *
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y: 51 %	Humid	B(℃) rk	ture: 24.8(Remarl	mpera P/F P	Te 7.6V Detector peak	al ower:DC Margin (dB) -23.35	on: Vertic Pr Limit (dBuV/m) 74.00	Polarizatio Level (dBuV/m) 50.65	dge(peak Factor (dB/m) -16.65 ducted in a	Chamber 247 bande Reading (dBuV) 67.30 s were cond	Anechoic (C part 15.2 equency (MHz) 483.500 asurements	3m / FCC Fr 2 <i>Mea</i>	nit: p. * e<i>: l</i>
y: 51 %	Humid	B(℃) rk	ture: 24.8(Remarl	mpera P/F P	Te 7.6V Detector peak	al ower:DC Margin (dB) -23.35	on: Vertic Pr Limit (dBuV/m) 74.00	Polarizatio Level (dBuV/m) 50.65	dge(peak Factor (dB/m) -16.65 ducted in a	Chamber 247 bande Reading (dBuV) 67.30 s were cond	Anechoic (C part 15.2 equency (MHz) 483.500 asurements	3m / FCC Fr 2 <i>Mea</i>	nit: o. *
y: 51 %	Humid	B(℃) rk	ture: 24.8(Remarl	mpera P/F P	Te 7.6V Detector peak	al ower:DC Margin (dB) -23.35	on: Vertic Pr Limit (dBuV/m) 74.00	Polarizatio Level (dBuV/m) 50.65	dge(peak Factor (dB/m) -16.65 ducted in a	Chamber 247 bande Reading (dBuV) 67.30 s were cond	Anechoic (C part 15.2 equency (MHz) 483.500 asurements	3m / FCC Fr 2 <i>Mea</i>	nit: o. *
y: 51 %	Humid	B(℃) rk	ture: 24.8(Remarl	mpera P/F P	Te 7.6V Detector peak	al ower:DC Margin (dB) -23.35	on: Vertic Pr Limit (dBuV/m) 74.00	Polarizatio Level (dBuV/m) 50.65	dge(peak Factor (dB/m) -16.65 ducted in a	Chamber 247 bande Reading (dBuV) 67.30 s were cond	Anechoic (C part 15.2 equency (MHz) 483.500 asurements	3m / FCC Fr 2 <i>Mea</i>	nit: p. * e<i>: l</i>
y: 51 %	Humid	B(℃) rk	ture: 24.8(Remarl	mpera P/F P	Te 7.6V Detector peak	al ower:DC Margin (dB) -23.35	on: Vertic Pr Limit (dBuV/m) 74.00	Polarizatio Level (dBuV/m) 50.65	dge(peak Factor (dB/m) -16.65 ducted in a	Chamber 247 bande Reading (dBuV) 67.30 s were cond	Anechoic (C part 15.2 equency (MHz) 483.500 asurements	3m / FCC Fr 2 <i>Mea</i>	nit: p. * e<i>: l</i>
y: 51 %	Humid	B(℃) rk	ture: 24.8(Remarl	mpera P/F P	Te 7.6V Detector peak	al ower:DC Margin (dB) -23.35	on: Vertic Pr Limit (dBuV/m) 74.00	Polarizatio Level (dBuV/m) 50.65	dge(peak Factor (dB/m) -16.65 ducted in a	Chamber 247 bande Reading (dBuV) 67.30 s were cond	Anechoic (C part 15.2 equency (MHz) 483.500 asurements	3m / FCC Fr 2 <i>Mea</i>	nit: p. * e<i>: l</i>
y: 51 %	Humid	B(℃) rk	ture: 24.8(Remarl	mpera P/F P	Te 7.6V Detector peak	al ower:DC Margin (dB) -23.35	on: Vertic Pr Limit (dBuV/m) 74.00	Polarizatio Level (dBuV/m) 50.65	dge(peak Factor (dB/m) -16.65 ducted in a	Chamber 247 bande Reading (dBuV) 67.30 s were cond	Anechoic (C part 15.2 equency (MHz) 483.500 asurements	3m / FCC Fr 2 <i>Mea</i>	nit: p. * e<i>: l</i>
y: 51 %	Humid	B(℃) rk	ture: 24.8(Remarl	mpera P/F P	Te 7.6V Detector peak	al ower:DC Margin (dB) -23.35	on: Vertic Pr Limit (dBuV/m) 74.00	Polarizatio Level (dBuV/m) 50.65	dge(peak Factor (dB/m) -16.65 ducted in a	Chamber 247 bande Reading (dBuV) 67.30 s were cond	Anechoic (C part 15.2 equency (MHz) 483.500 asurements	3m / FCC Fr 2 <i>Mea</i>	nit: p. * e<i>: l</i>
y: 51 %	Humid	B(℃) rk	ture: 24.8(Remarl	mpera P/F P	Te 7.6V Detector peak	al ower:DC Margin (dB) -23.35	on: Vertic Pr Limit (dBuV/m) 74.00	Polarizatio Level (dBuV/m) 50.65	dge(peak Factor (dB/m) -16.65 ducted in a	Chamber 247 bande Reading (dBuV) 67.30 s were cond	Anechoic (C part 15.2 equency (MHz) 483.500 asurements	3m / FCC Fr 2 <i>Mea</i>	nit: p. * e<i>: l</i>
y: 51 %	Humid	B(℃) rk	ture: 24.8(Remarl	mpera P/F P	Te 7.6V Detector peak	al ower:DC Margin (dB) -23.35	on: Vertic Pr Limit (dBuV/m) 74.00	Polarizatio Level (dBuV/m) 50.65	dge(peak Factor (dB/m) -16.65 ducted in a	Chamber 247 bande Reading (dBuV) 67.30 s were cond	Anechoic (C part 15.2 equency (MHz) 483.500 asurements	3m / FCC Fr 2 <i>Mea</i>	nit: p. * e<i>: l</i>

Above 1GHz

Modulation	Type: 8D	PSK							
Low channe	el: 2402 N	1Hz							
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBuV)	Correction Factor (dB/m)	Peak	A \ /	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
4804	Н	54.25		-9.51	44.74		74	54	-9.26
7206	Н	45.04		-1.41	43.63		74	54	-10.37
	H								
(G		Û.)		(.G`)		(G)	
4804	V	56.68		-9.51	47.17		74	54	-6.83
7206	V	47.57		-1.41	46.16		74	54	-7.84
	V								

Middle cha	nnel: 2441	MHz		XC V)				KC KC
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	55.11		-9.36	45.75	<u> </u>	74	54	-8.25
7323	KOĤ)	46.35	-120	-1.14	45.21	<u>, 0 1</u>	74	54	-8.79
	Ĥ								
4882	V	56.99		-9.36	47.63		74	54	-6.37
7323	V	46.52		-1.14	45.38		74	54	-8.62
27	V			%	- /				

High chann	nel: 2480 N	ЛНz							
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)	Peak	n Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
4960	Н	54.41		-9.20	45.21		74	54	-8.79
7440	Н	45.40		-0.96	44.44		74	54	-9.56
	Н	<u> </u>			2				
C		(\mathbf{G})		(.0			(\mathbf{G})		(.c
4960	V	54.88		-9.20	45.68		74	54	-8.32
7440	V	45.25		-0.96	44.29		74	54	-9.71
	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

	M	aximum Con	ducted Output P	ower	
Condition	Mode	Frequency (MHz)	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH1	2402	-2.15	21	Pass
NVNT	1-DH1	2441	-0.55	21	Pass
NVNT	1-DH1	2480	0.66	21	Pass
NVNT	2-DH1	2402	-1.37	21	Pass
NVNT	2-DH1	2441	0.33	21	Pass
NVNT	2-DH1	2480	1.51	21	Pass
NVNT	3-DH1	2402	-0.77	21	Pass
NVNT	3-DH1	2441	0.90	21	Pass
NVNT	3-DH1	2480	2.11	21	Pass

















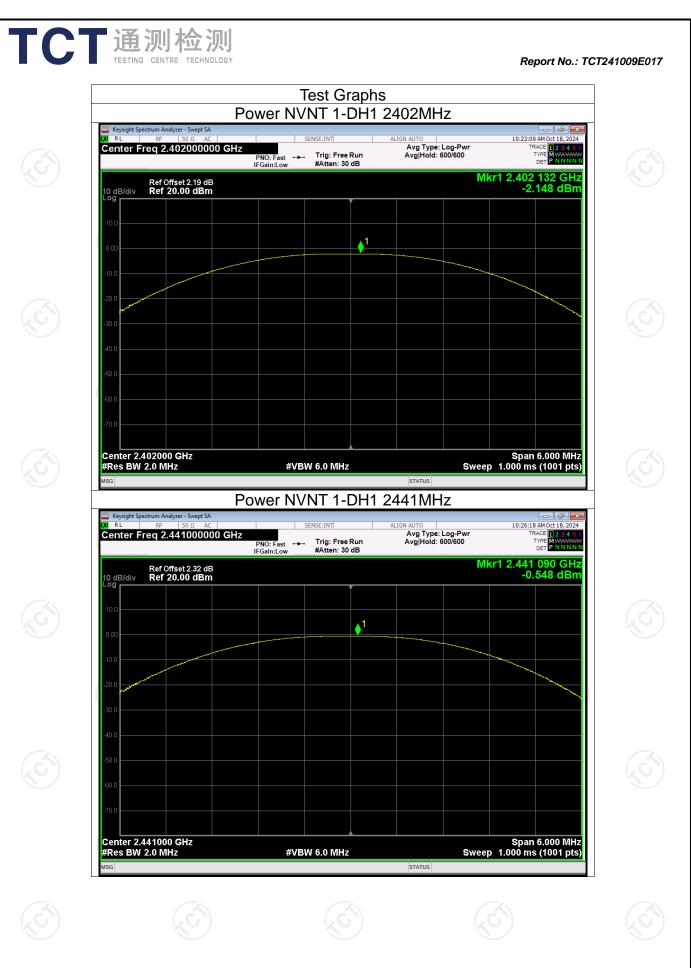






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Trig: Free Run #Atten: 30 dB PNO: Fast +++ Mkr1 2.480 120 GHz 0.657 dBm Ref Offset 2.41 dB Ref 20.00 dBm 10 dB/div Log **≜**¹ Center 2.480000 GHz #Res BW 2.0 MHz Span 6.000 MHz Sweep 1.000 ms (1001 pts) #VBW 6.0 MHz STATUS Power NVNT 2-DH1 2402MHz Keysight Spectrum Analyzer - Swept SA 10:53:30 AM Oct 18, 2024 TRACE 1 2 3 4 5 6 TYPE M WWWWW DET P N N N N KI RL Avg Type: Log-Pw Avg|Hold: 500/500 Center Freq 2.402000000 GHz PNO: Fast ---- Trig: Free Run IFGain:Low #Atten: 30 dB Mkr1 2.402 138 GHz -1.374 dBm Ref Offset 2.19 dB Ref 20.00 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 1-DH1 2480MHz

Avg Type: Log-Pwr Avg|Hold: 600/600

KI RL

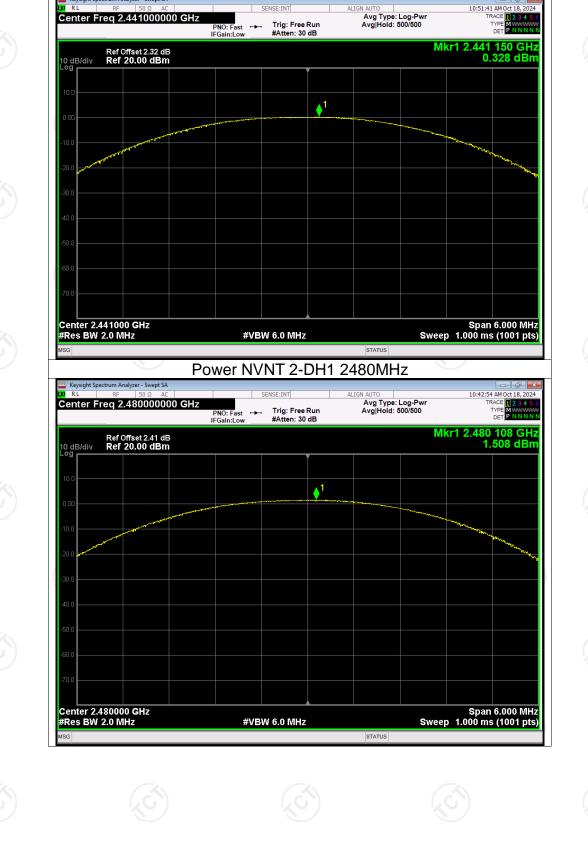
Keysight Spectrum Analyzer - Swept SA

Center Freq 2.480000000 GHz

Report No.: TCT241009E017

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10:27:58 AM Oct 18, 2024 TRACE 1 2 3 4 5 6 TYPE MWWWWW DET P NNNN



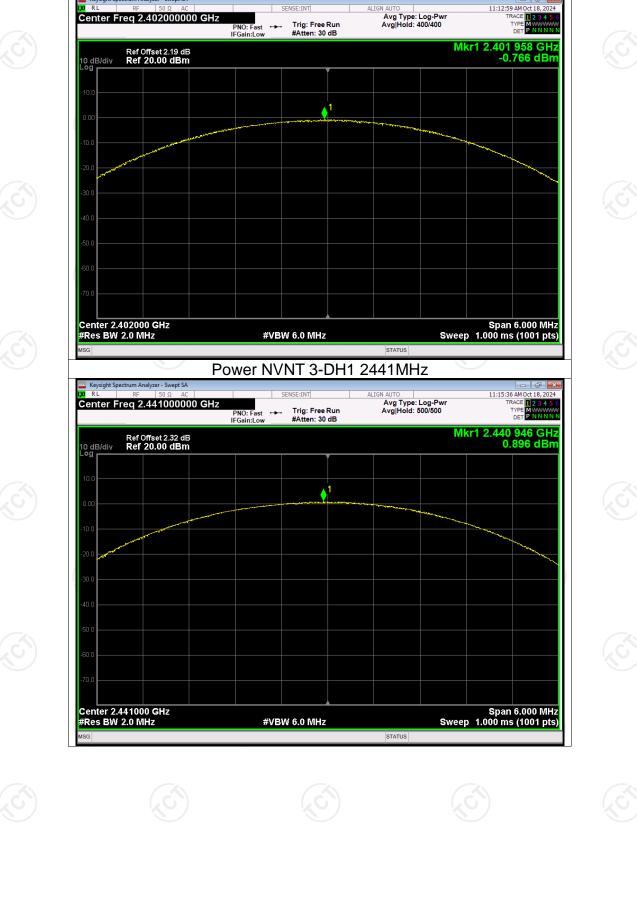
Power NVNT 2-DH1 2441MHz

KI RL

Keysight Spectrum Analyzer - Swept S

Report No.: TCT241009E017

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Power NVNT 3-DH1 2402MHz

ALIGN

Avg Type: Log-Pwr Avg|Hold: 400/400

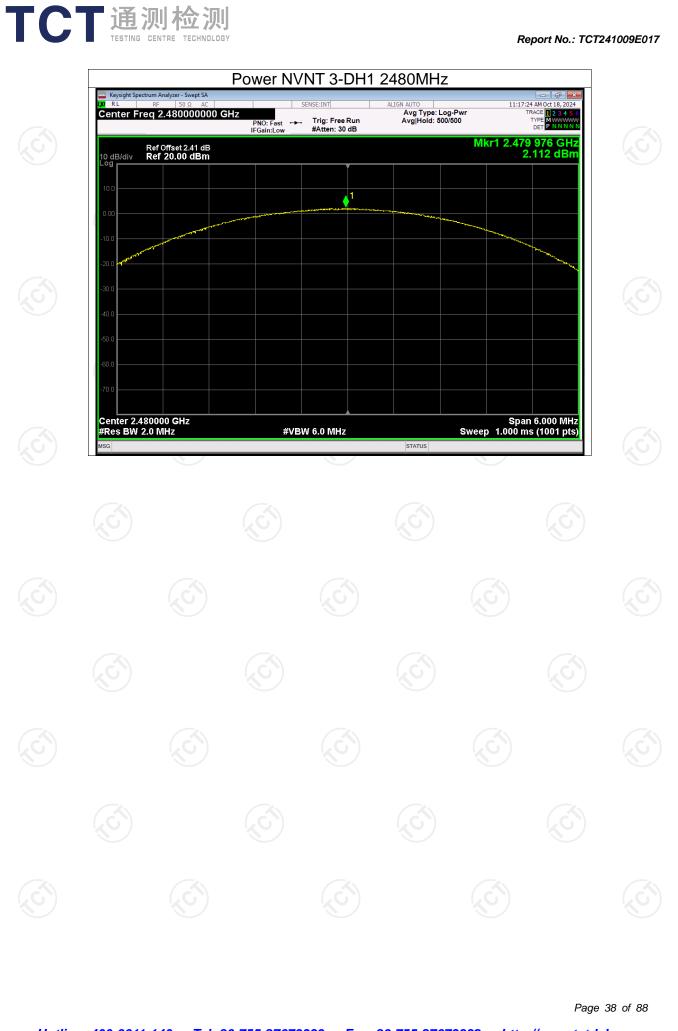
KI RL

Keysight Spectrum Analyzer - Swept SA

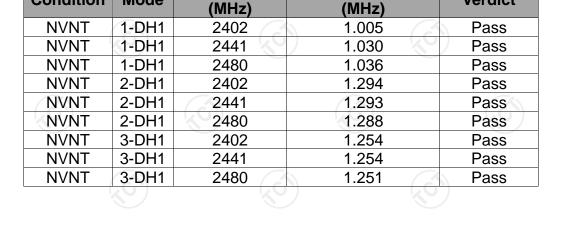
Center Freq 2.402000000 GHz

Report No.: TCT241009E017

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



-20dB Bandwidth Frequency -20 dB Bandwidth

TCT通测检测 TEGTING CENTRE TECHNOLOGY

Condition

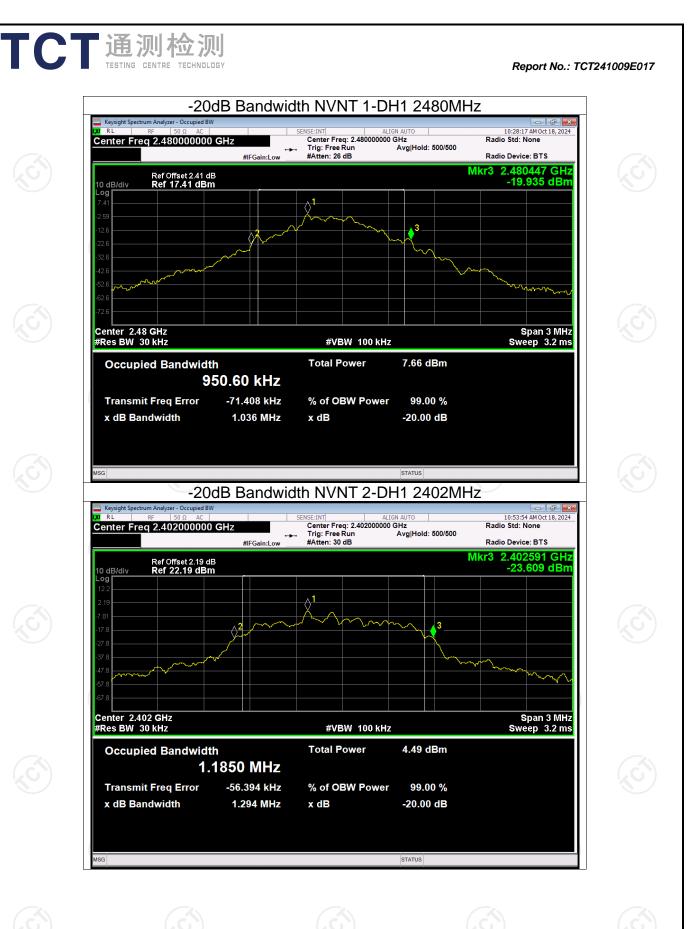
Mode

Report No.: TCT241009E017

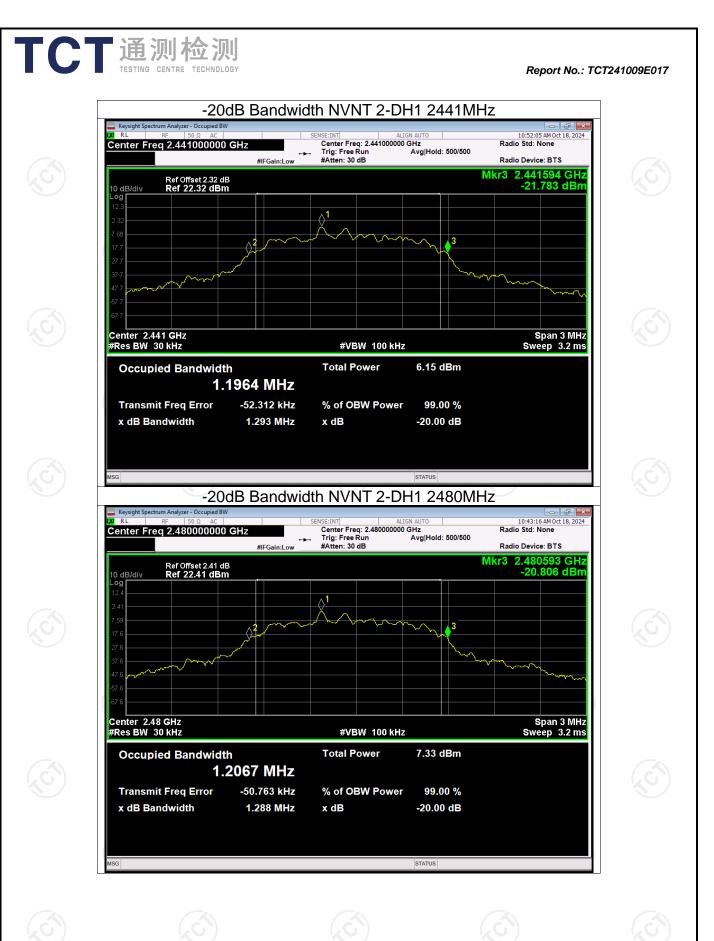
Page 39 of 88

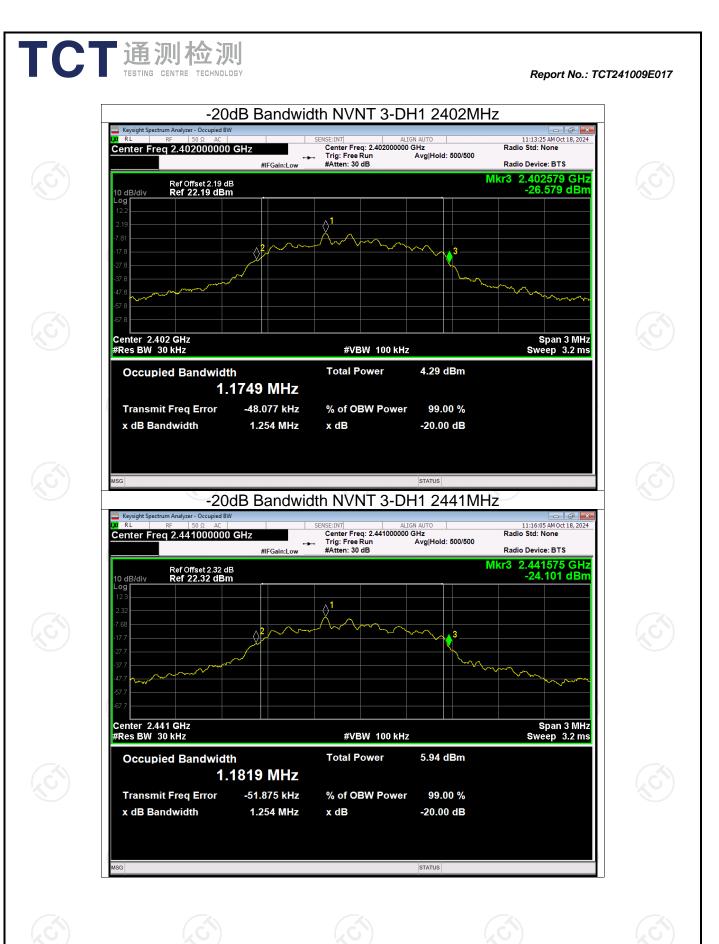
Verdict





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	11:17:5 Radio Std: Radio Devi Mkr3 2.4	-DH1 2480I	SENSE:INT Center Freq: 2.48000 Trig: Free Run #Atten: 30 dB		-20d m Analyzer - Occupied BW RF 50 Ω AC 2.4800000000 C Ref Offset 2.41 dB Ref 22.41 dBm	LXI RL	
Span 3 MHz reep 3.2 ms	Sw		#VBW 100 Total Power		GHz 0 kHz ed Bandwidth	17.6 27.6 37.6 47.6 57.6 57.6 57.6 Center 2.44 #Res BW 3	
			% of OBW Pov	866 MHz -55.926 kHz 1.251 MHz	1.1 Freq Error		
		STATUS				MSG	

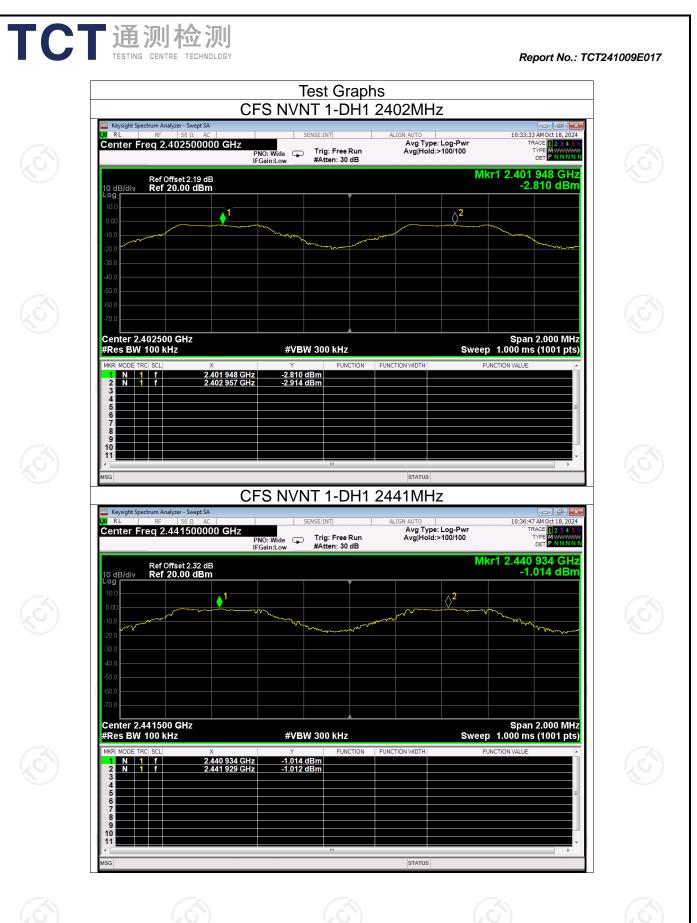
			equencies Separat			
Condition	Mode	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH1	2401.948	2402.957	1.009	0.691	Pass
NVNT	1-DH1	2440.934	2441.929	0.995	0.691	Pass
NVNT	1-DH1	2478.942	2479.939	0.997	0.691	Pass
NVNT	2-DH1	2401.776	2402.782	1.006	0.863	Pass
NVNT	2-DH1	2440.774	2441.770	0.996	0.863	Pass
NVNT	2-DH1	2478.778	2479.774	0.996	0.863	Pass
NVNT	3-DH1	2401.776	2402.778	1.002	0.836	Pass
NVNT	3-DH1	2440.774	2441.774	1.000	0.836	Pass
NVNT	3-DH1	2478.778	2479.774	0.996	0.836	Pass

Carrier Frequencies Separation

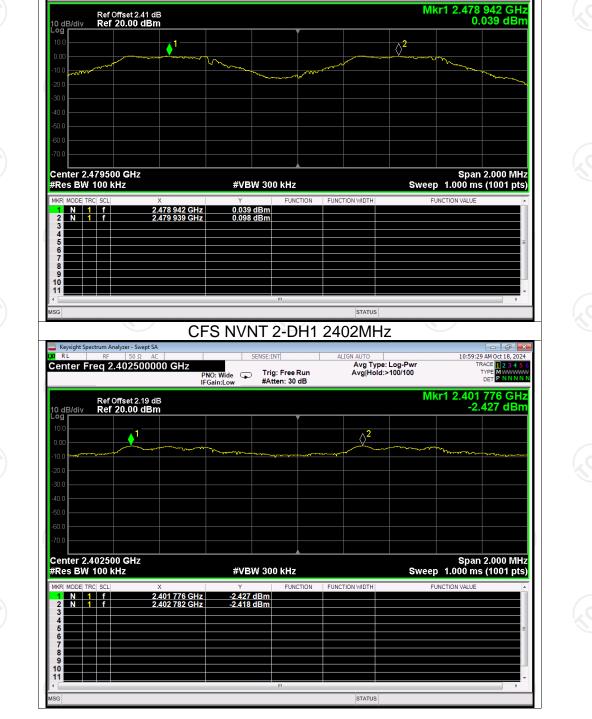
TCT 通测检测 TESTING CENTRE TECHNOLOGY

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



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CFS NVNT 1-DH1 2480MHz

Trig: Free Run #Atten: 30 dB

PNO: Wide IFGain:Low

 \mathbf{P}

ALTGN AL

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

🔤 Keysight Spe

Center Freg 2.479500000 GHz

KI RL

Report No.: TCT241009E017

10:40:33 AM Oct 18, 2024 TRACE 1 2 3 4 5 (TYPE MWWWW DET P N N N N

TYPE DET



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Mkr1 2.440 774 GHz -0.804 dBm Ref Offset 2.32 dB Ref 20.00 dBm 10 d Log **⁄** \Diamond^2 Center 2.441500 GHz #Res BW 100 kHz Span 2.000 MHz Sweep 1.000 ms (1001 pts) #VBW 300 kHz 2.440 774 GHz 2.441 770 GHz N 1 f N 1 f -0.804 dBm -0.785 dBm 234 10 11 CFS NVNT 2-DH1 2480MHz Keysight Spectrum Analyzer - Swept SA 11:10:34 AM Oct 18, TRACE 12.3 Avg Type: Log-Pw Avg|Hold:>100/100 Center Freg 2.479500000 GHz Trig: Free Run #Atten: 30 dB TYPE PNO: Wide IFGain:Low Mkr1 2.478 778 GHz 0.349 dBm Ref Offset 2.41 dB Ref 20.00 dBm 10 dB/div Log **r ⊘**2 Ø Center 2.479500 GHz #Res BW 100 kHz Span 2.000 MHz Sweep 1.000 ms (1001 pts) #VBW 300 kHz FUNCTION WIDTH TION N 1 f N 1 f 2.478 778 GHz 2.479 774 GHz 0.349 dBm 0.385 dBm 10 11 STATUS

CFS NVNT 2-DH1 2441MHz

Trig: Free Run #Atten: 30 dB

PNO: Wide 😱 IFGain:Low

ALIGN A

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

Report No.: TCT241009E017

11:04:51 AM Oct 18, 2024 TRACE 1 2 3 4 5 (TYPE MWWWW DET P N N N N

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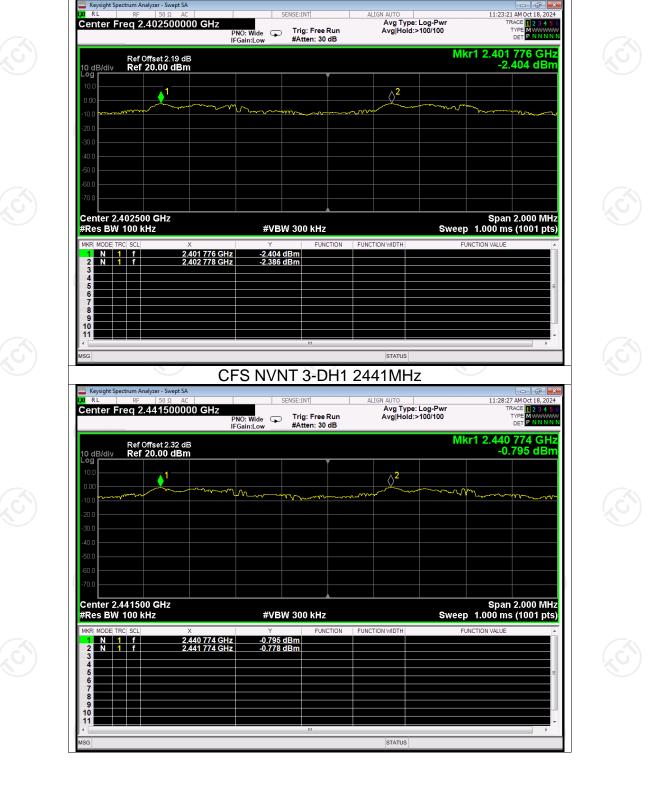
TYPE DET



Center Freg 2.441500000 GHz

🔤 Keysight Spectrum Analyzer -

KI RL



CFS NVNT 3-DH1 2402MHz

Report No.: TCT241009E017

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		检 況 TECHNO		CFS	NVN	IT 3-I	DH1 2	2480MF	Ηz		Re			241009E0
	RF	er - Swept SA 50 Ω AC 950000		PNO: Wi IFGain:L	ide 😱	ENSE:INT Trig: Fre #Atten: 3	e Run 60 dB	ALIGN AUTO Avg Tyj Avg Hol	pe: Log-Pv d:>100/10)	TF	DAMOct 18, 3 RACE 1 2 3 TYPE MWW DET PNN	2024 4 5 6 MMW N N N	
,	Ref Offs Ref 20	et 2.41 dB .00 dBm					Ĭ	2		Mkr1	2.478 0.	778 G 315 di	Hz Bm	
						~~~~~								
N 1	79500 ( 100 kHz	X			Y					Sweep 1.	Span 000 ms	2.000 N 5 (1001 j	1Hz ots)	
1	f	<u>2.4</u> 2.4	78 778 ( 79 774 (	GHz GHz	0.315 c 0.374 c	iBm iBm							=	
						C	_	STATUS						

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

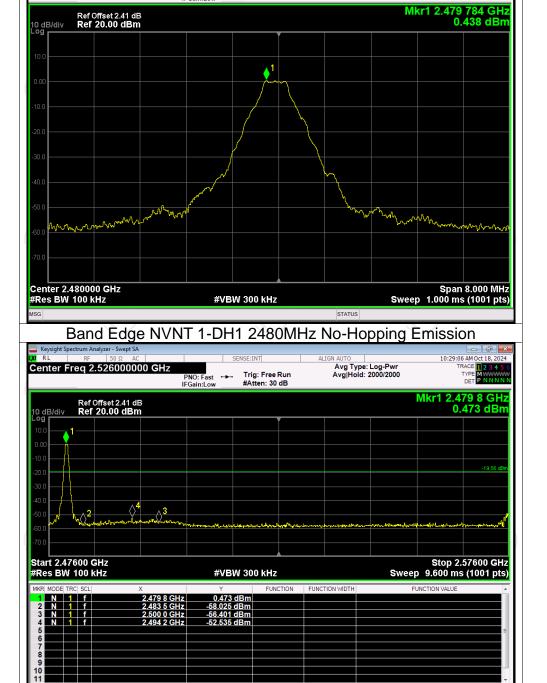
			Band Edge			
Condition	Mode	Frequency (MHz)	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	No-Hopping	-52.75	-20	Pass
NVNT	1-DH1	2480	No-Hopping	-52.97	-20	Pass
NVNT	2-DH1	2402	No-Hopping	-52.72	-20	Pass
NVNT	2-DH1	2480	No-Hopping	-52.47	-20	Pass
NVNT	3-DH1	2402	No-Hopping	-52.59	-20	Pass
NVNT	3-DH1	2480	No-Hopping	-53.69	-20	Pass

Report No.: TCT241009E017

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

Trig: Free Run #Atten: 30 dB

PNO: Wide IFGain:Low

-----

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

- Keysight

Center Freq 2.480000000 GHz

KI RL

#### Report No.: TCT241009E017

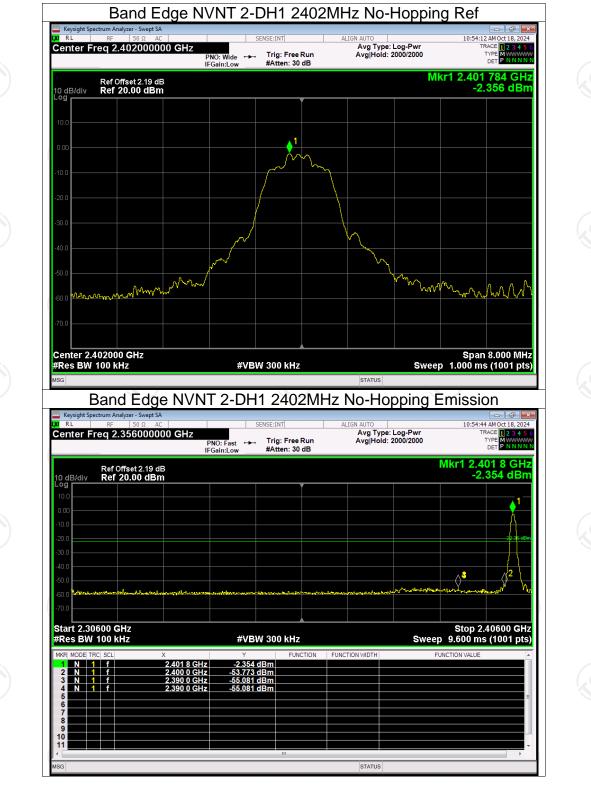
10:28:33 AM Oct 18, 2024 TRACE 1 2 3 4 5 ( TYPE DET P NNNN



STATUS

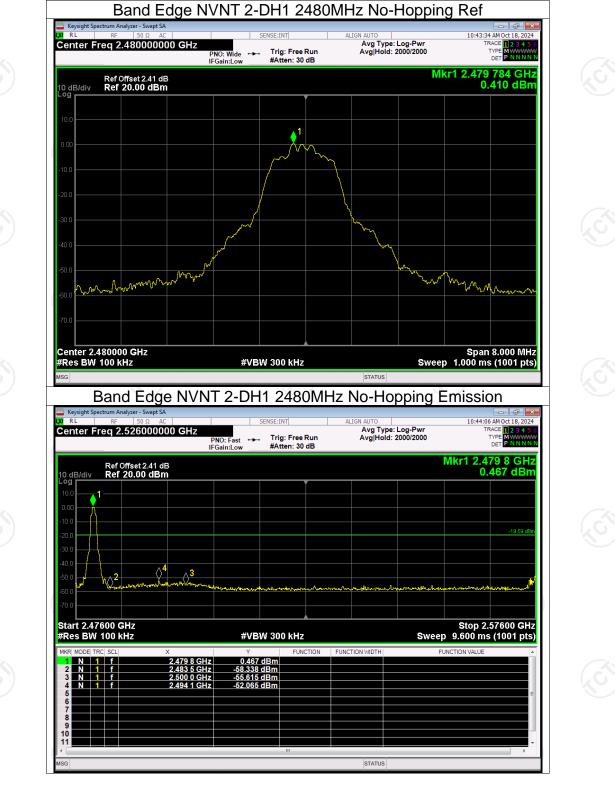


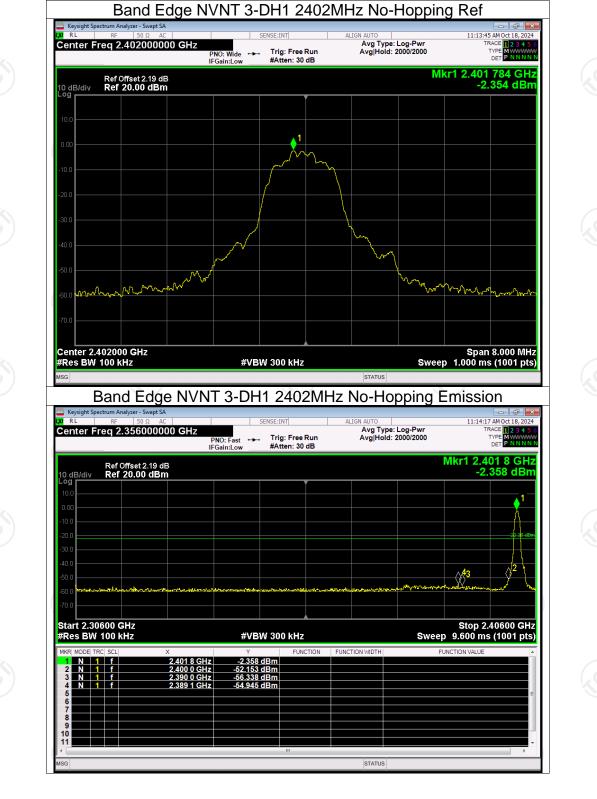


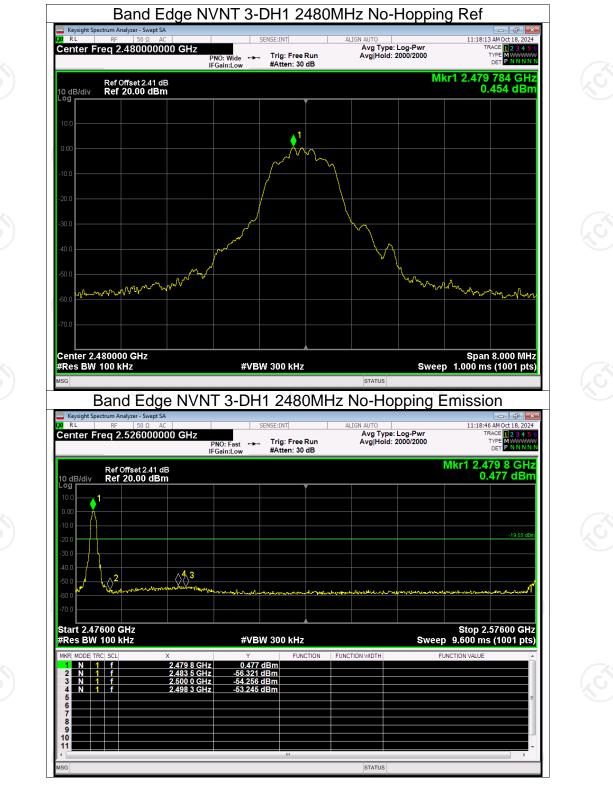


#### Report No.: TCT241009E017

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

Mode	Frequency (MHz)	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
1-DH1	2402	Hopping	-52.11	-20	Pass
1-DH1	2480	Hopping	-50.88	-20	Pass
2-DH1	2402	Hopping	-52.27	-20	Pass
2-DH1	2480	Hopping	-52.38	-20	Pass
3-DH1	2402	Hopping	-52.71	-20	Pass
3-DH1	2480	Hopping	-51.68	-20	Pass
1 2 3	-DH1 -DH1 2-DH1 2-DH1 2-DH1 3-DH1	wode         (MHz)           -DH1         2402           -DH1         2480           2-DH1         2402           2-DH1         2402           2-DH1         2480           3-DH1         2402	Wode         (MHz)         Mode           -DH1         2402         Hopping           -DH1         2480         Hopping           2-DH1         2402         Hopping           2-DH1         2402         Hopping           2-DH1         2402         Hopping           2-DH1         2480         Hopping           2-DH1         2480         Hopping	Mode         (MHz)         Mode         (dBc)           -DH1         2402         Hopping         -52.11           -DH1         2480         Hopping         -50.88           2-DH1         2402         Hopping         -52.27           2-DH1         2480         Hopping         -52.38           2-DH1         2402         Hopping         -52.71	Mode         (MHz)         Mode         (dBc)         (dBc)           -DH1         2402         Hopping         -52.11         -20           -DH1         2480         Hopping         -50.88         -20           -DH1         2402         Hopping         -52.27         -20           2-DH1         2480         Hopping         -52.38         -20           2-DH1         2480         Hopping         -52.38         -20           2-DH1         2402         Hopping         -52.71         -20

### Band Edge(Hopping)

Report No.: TCT241009E017

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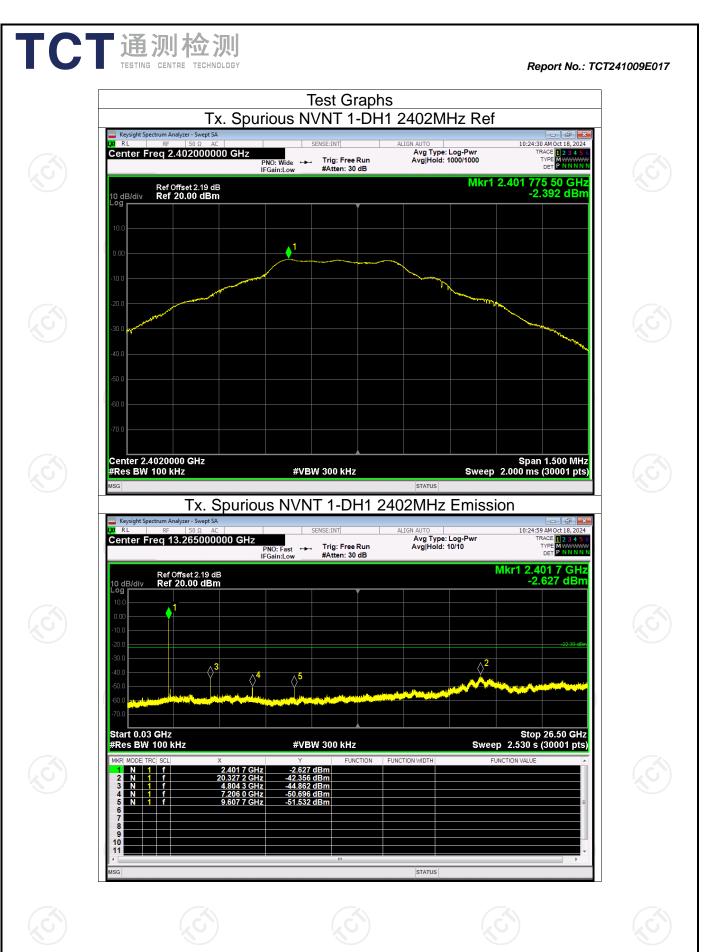


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## Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	-39.96	-20	Pass
NVNT	1-DH1	2441	-41.49	-20	Pass
NVNT	1-DH1	2480	-41.15	-20	Pass
NVNT	2-DH1	2402	-39.68	-20	Pass
NVNT	2-DH1	2441	-41.00	-20	Pass
NVNT	2-DH1	2480	-42.11	-20	Pass
NVNT 🚫	3-DH1	2402	-41.37	-20	Pass
NVNT	3-DH1	2441	-41.84	-20	Pass
NVNT	3-DH1	2480	-44.17	-20	Pass

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10:26:54 AM Oct 18, 2024 TRACE 1 2 3 4 5 6 TYPE M WWWW DET P N N N N Avg Type: Log-Pwr Avg|Hold: 1000/1000 Trig: Free Run #Atten: 30 dB TYP DE PNO: Wide IFGain:Low **н**н Mkr1 2.440 776 40 GHz -0.810 dBm Ref Offset 2.32 dB Ref 20.00 dBm 10 dB/div Loa **♦**¹ Center 2.4410000 GHz #Res BW 100 kHz Span 1.500 MHz Sweep 2.000 ms (30001 pts) #VBW 300 kHz STATUS Tx. Spurious NVNT 1-DH1 2441MHz Emission yzer - Swept SA Keysight Spe U RL 10:27:24 AM Oct 18, Avg Type: Log-Pw Avg|Hold: 10/10 Center Freg 13.265000000 GHz Trig: Free Run #Atten: 30 dB TYPE PNO: Fast ↔→→ IFGain:Low Mkr1 2.440 5 GHz -1.503 dBm Ref Offset 2.32 dB Ref 20.00 dBm 10 dB/div Log **r**  $\Diamond^3$ ⊘⁵ **∲**⁴ MAX. Start 0.03 GHz #Res BW 100 kHz Stop 26.50 GHz Sweep 2.530 s (30001 pts) #VBW 300 kHz FUNCTION WIDTH TION 
 MODE
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 2.440 5 GHz 4.882 0 GHz 4.882 0 GHz 7.322 5 GHz 9.763 9 GHz -1.503 dBm -42.305 dBm -42.305 dBm -54.402 dBm -50.144 dBm 456780 STATUS

Tx. Spurious NVNT 1-DH1 2441MHz Ref

TCT通测检测 TESTING CENTRE TECHNOLOGY

🔤 Keysight S

Center Freg 2.441000000 GHz

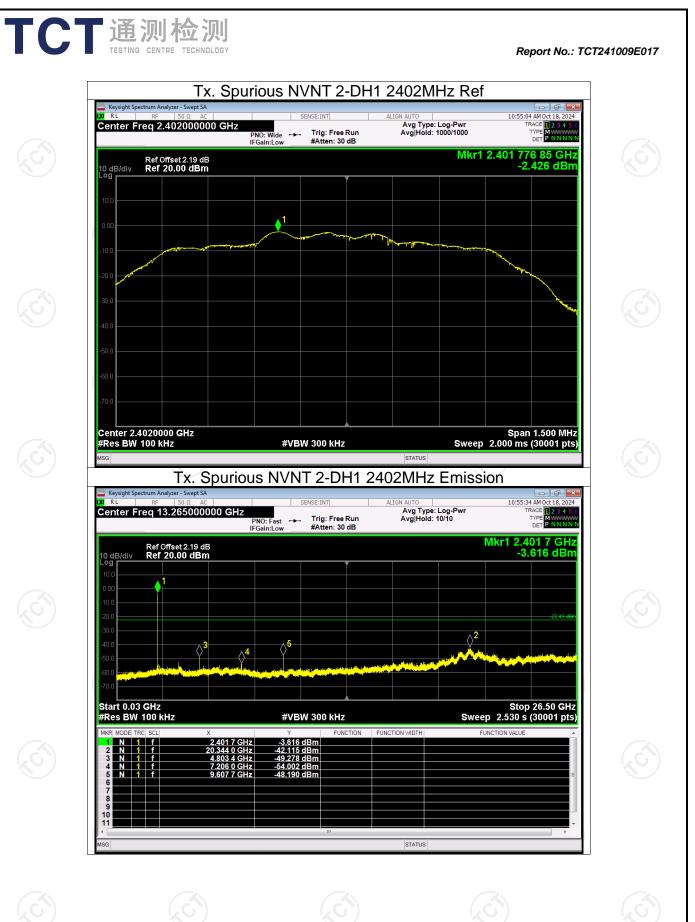
KI RL



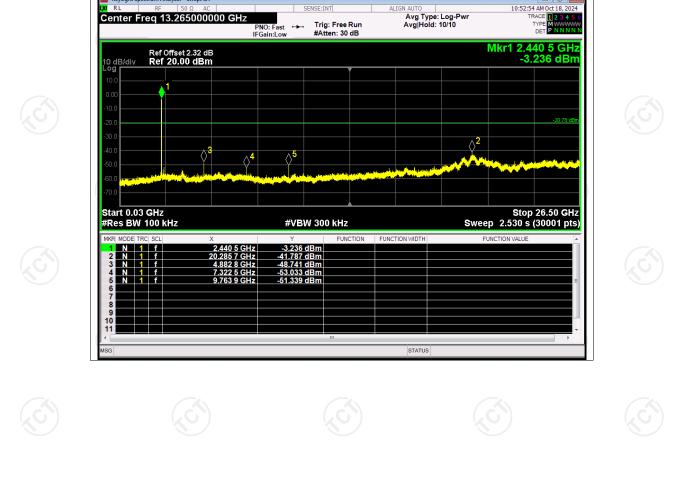
TCT通测检测 TESTING CENTRE TECHNOLOGY

Report No.: TCT241009E017

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10:52:24 AM Oct 18, 2024 TRACE 1 2 3 4 5 6 TYPE MWWWW DET P N N N N Avg Type: Log-Pwr Avg|Hold: 1000/1000 Trig: Free Run #Atten: 30 dB TYP DE PNO: Wide IFGain:Low **н**н Mkr1 2.440 773 45 GHz -0.782 dBm Ref Offset 2.32 dB Ref 20.00 dBm 10 dB/div Loa **≜**¹ Center 2.4410000 GHz #Res BW 100 kHz Span 1.500 MHz Sweep 2.000 ms (30001 pts) #VBW 300 kHz STATUS

Tx. Spurious NVNT 2-DH1 2441MHz Ref

TCT通测检测 TESTING CENTRE TECHNOLOGY

🔤 Keysight S

Keysight Sp

Center Freg 2.441000000 GHz

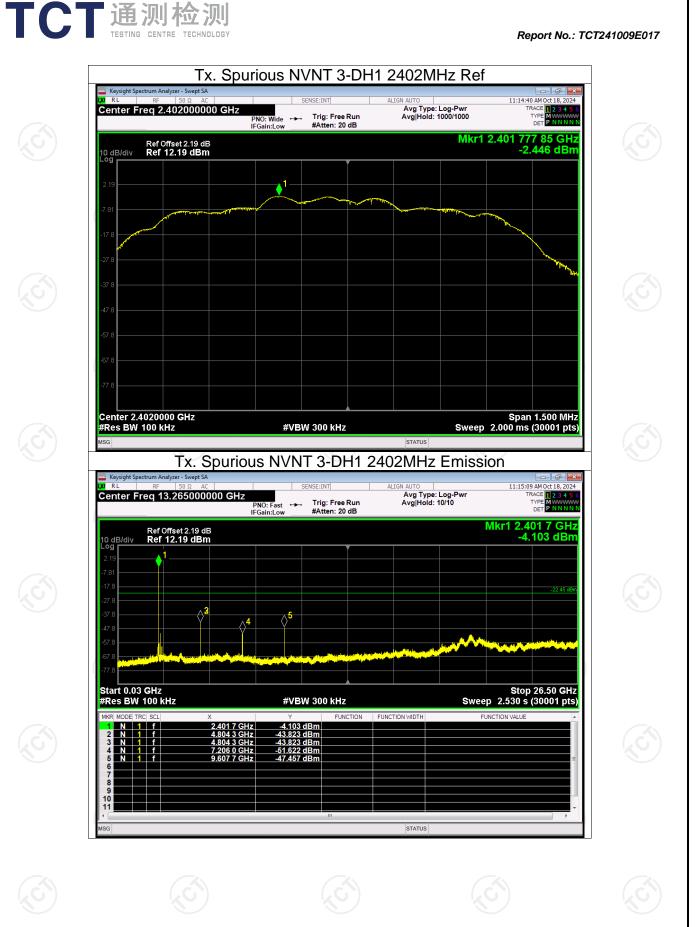
KI RL

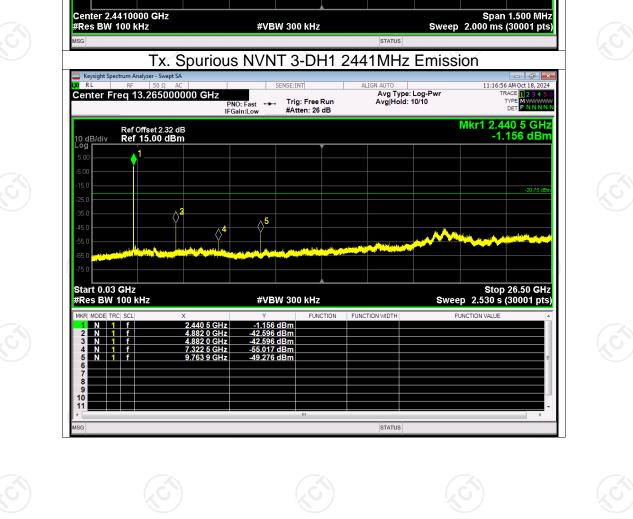
#### Tx. Spurious NVNT 2-DH1 2441MHz Emission /zer - Swept S/





TCT通测检测 TESTING CENTRE TECHNOLOGY





Ø 

Tx. Spurious NVNT 3-DH1 2441MHz Ref

Trig: Free Run #Atten: 26 dB

PNO: Wide IFGain:Low

**н**н

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

TCT通测检测 TESTING CENTRE TECHNOLOGY

🔤 Keysight S

10 dB/div Loa

Center Freg 2.441000000 GHz

Ref Offset 2.32 dB Ref 15.00 dBm

KI RL

Report No.: TCT241009E017

11:16:26 AM Oct 18, 2024 TRACE 1 2 3 4 5 6 TYPE MWWWW DET P N N N N

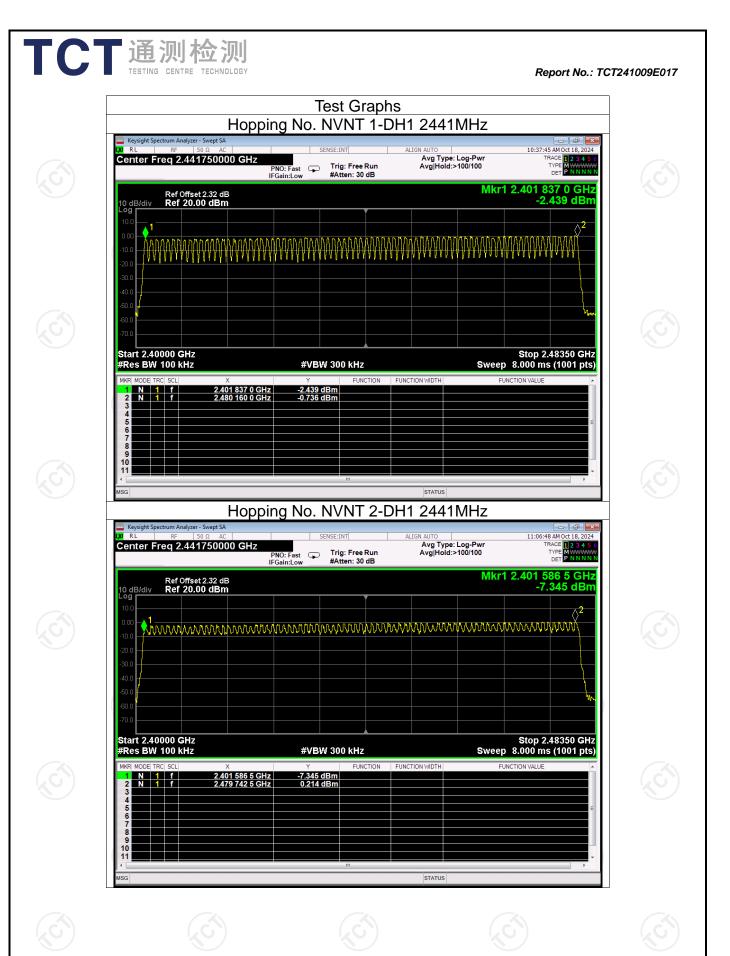
TYPE DET

Mkr1 2.440 773 60 GHz -0.753 dBm



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	Verd Pas	Limit 15	umber	<b>lopping N</b> 79	· F	Mode 1-DH1	Condition NVNT	
S	Pas Pas	15 15		79 79		2-DH1 3-DH1	NVNT NVNT	6



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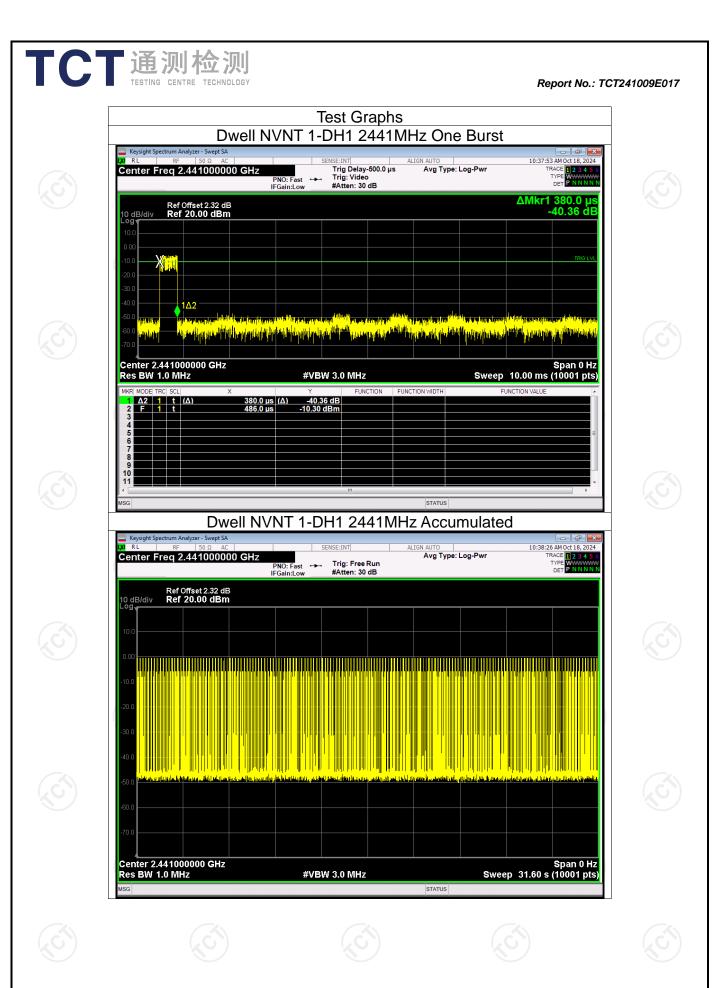
Keusinht Spactrue	H( m Analyzer - Swept SA	opping No.	NVNT 3-D	H1 2441MH	Z		
Center Fred	RF 50 Ω AC 2.441750000 C ef Offset 2.32 dB ef 20.00 dBm	SHZ PNO: Fast IFGain:Low	SENSE:INT Trig: Free Run #Atten: 30 dB	ALIGN AUTO Avg Type: Log-Pr Avg Hold:>100/10	Mkr1 2.401	34 AM Oct 18, 2024 TRACE 1 2 3 4 5 6 TYPE MWWWW DET P N N N N	
10.0 0.00 -10.0 -20.0	MANANA ANA	www.www.ww	WWWWWW	wwwww	VUUNUUU		
-30.0 -40.0 -50.0 -60.0 -70.0							
Start 2.4000 #Res BW 10 MKR MODE TRC S 1 N 1 2 N 1	0 kHz ^{CL} X f 2.401 75	3 5 GHz -2.282	SW 300 kHz FUNCTION 2 dBm	FUNCTION WIDTH	Stop 2 Sweep 8.000 m		
3 4 5 6 7 8 9 10							
MSG				STATUS			

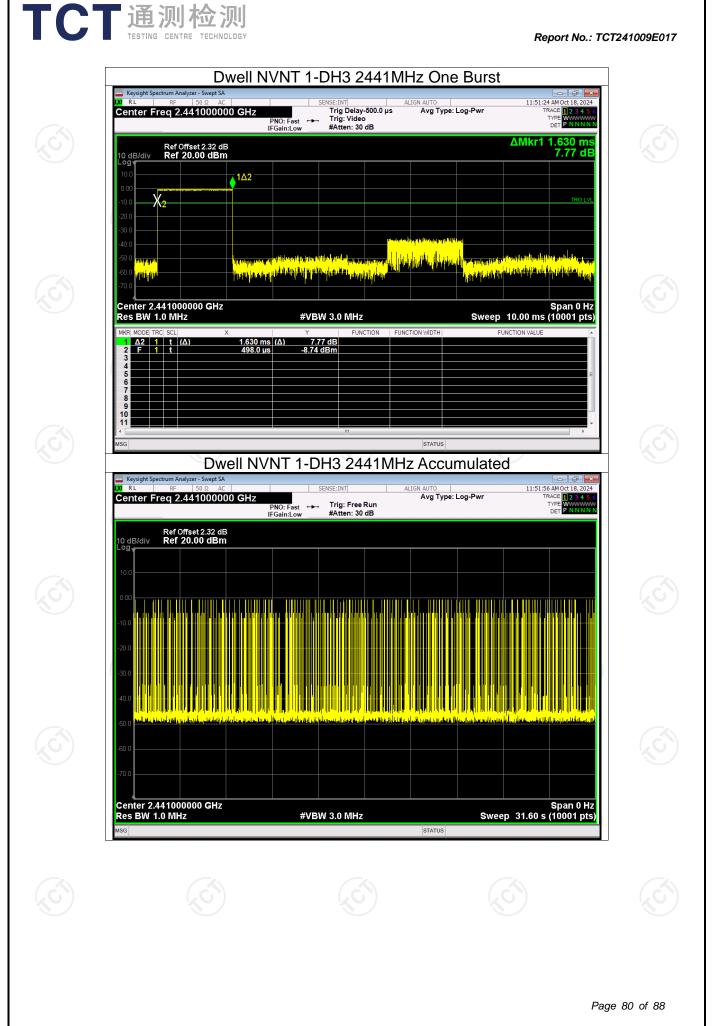
ICI		<b>则 检 测</b> ENTRE TECHNOLOGY	Dwe	ell Time		Repor	t No.: TCT2	41009E017
Condition	Mode	Frequency	Pulse Time	Total Dwell	Burst	Period Time	Limit	Verdict

Condition	Mode	Frequency (MHz)	Time (ms)	Dwell Time (ms)	Burst Count	Time (ms)	Limit (ms)	Verdict
NVNT	1-DH1	2441	0.38	121.60	320	31600	400	Pass
NVNT	1-DH3	2441	1.63	259.17	159	31600	400	Pass
NVNT	1-DH5	2441	2.88	311.04	108	31600	400	Pass
NVNT	2-DH1	2441	0.39	123.24	316	31600	400	Pass
NVNT	2-DH3	2441	1.64	264.04	161	31600	400	Pass
NVNT	2-DH5	2441	2.89	286.11	99	31600	400	Pass
NVNT	3-DH1	2441	0.39	123.63	317	31600	400	Pass
NVNT	3-DH3	2441	1.64	254.20	155	31600	400	Pass
NVNT	3-DH5	2441	2.89	268.77	93	31600	400	Pass

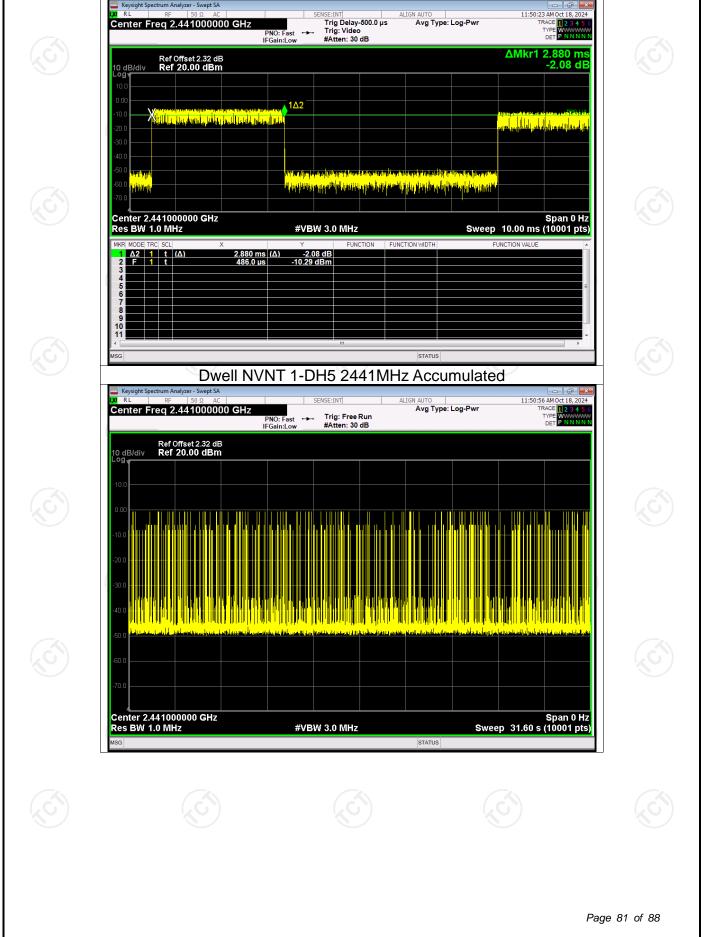
Page	78	of	88
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Hotline: 400-6611-140 Tel: 86-755-27673339 Fax: 86-755-27673332 http://www.tct-lab.com





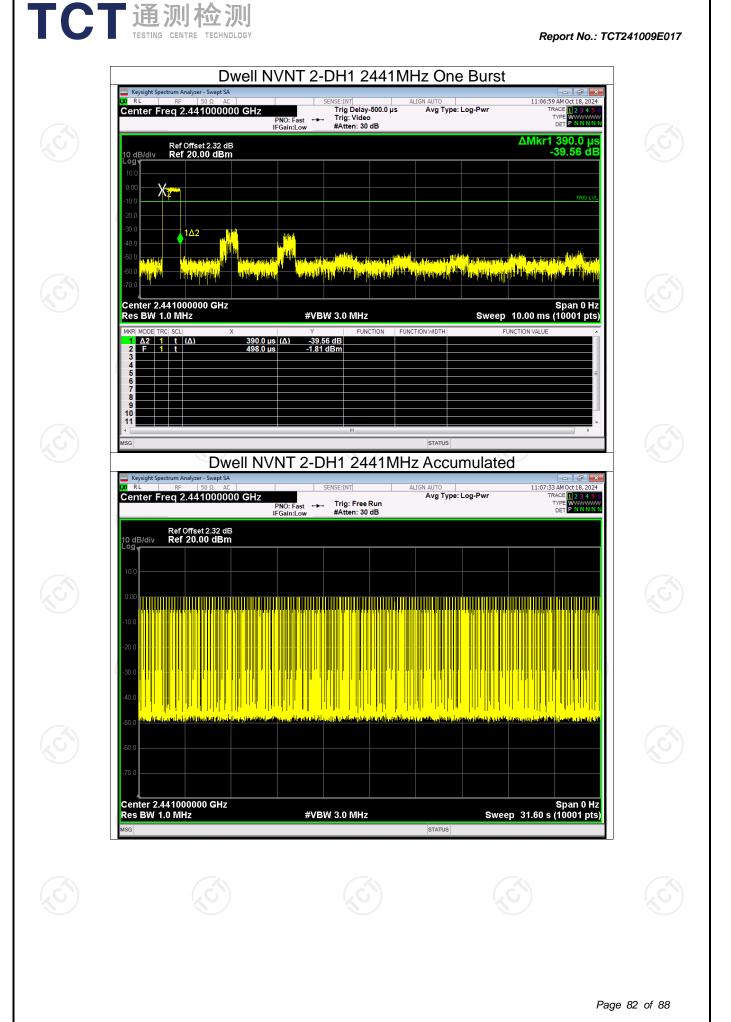
Hotline: 400-6611-140 Tel: 86-755-27673339 Fax: 86-755-27673332 http://www.tct-lab.com



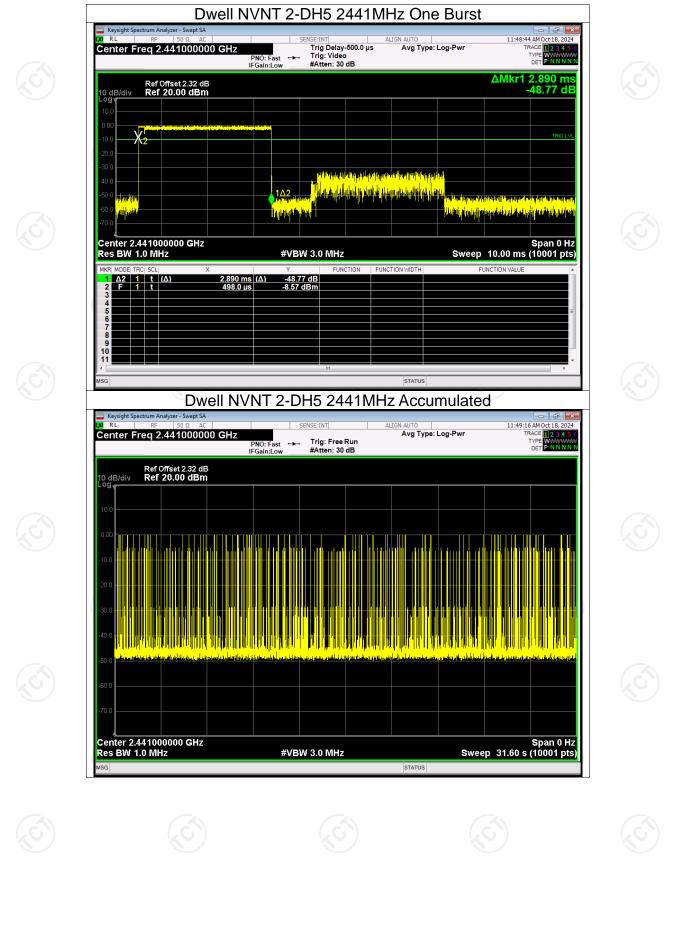
Dwell NVNT 1-DH5 2441MHz One Burst

Report No.: TCT241009E017

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



	Keysight Spectrum Analyzer - Swept SA           RL         RF         50 Ω         AC           enter Freq 2.441000000 GHz	PNO: Fast Trig: Video	AUTO 11:49:29 AMOC1 8, 2024 Avg Type: Log-Pwr Trace 11249 Type United Type	1 6 AF
	Ref Offset 2.32 dB 0 dB/div Ref 20.00 dBm	IFGain:Low #Atten: 30 dB	ΔMkr1 1.640 ms -39.23 dE	
	0.00		TRO LVI	
	10.0 <b>X¹2¹100, 10, 10, 11, 11, 14, 10, 14</b> , 14, 14, 14, 14, 14, 14, 14, 14, 14, 14			
-			na mananan na mananan ang na manana na manana na manana na manana na manana na manana na mana na mana na mana m Na mananana na manana na mana na mana na m	7
	2000 1441000000 GHz		Span 0 Hz	
	Res BW 1.0 MHz IKR  MODE  TRC  SCL  X	#VBW 3.0 MHz	Sweep 10.00 ms (10001 pts	
	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	ms (Δ) -39.23 dB D μs -15.16 dBm		
	5 7 7 8 9			
	Dwell N	VNT 2-DH3 2441MHz /		
LX.	Keysight Spectrum Analyzer - Swept SA RL RF 50 Ω AC Center Freq 2.4410000000 GHz	SENSE:INT ALIGN	AUTO 11:50:03 AM Oct 18, 2024	1
	Ref Offset 2.32 dB	PNO: Fast Trig: Free Run IFGain:Low #Atten: 30 dB	TYPE WAANNA DET PNNNN	
1	0 dB/div Ref 20.00 dBm			
4	20.0			
4	90.0 P			
		n an an haird a share an	a na shi ka sa ka sa Ka sa ka	
	80.0			
	70.0			
Q	Center 2.441000000 GHz es BW 1.0 MHz	#VBW 3.0 MHz	Span 0 Hz Sweep 31.60 s (10001 pts	2
	G		STATUS	<u> </u>



Report No.: TCT241009E017

	Ref Offset 2.32 dB 10 dB/div Ref 20.00 dBm -∙9g			NNNN N
	10.0		ΔMkr1 390 -40.8	.0 μs 3 dB
	30.0 40.0 50.0 αν	anan an an shain an		
3)			and an	
	Center 2.441000000 GHz Res BW 1.0 MHz MKR MODE TRC SCL Χ 1 Δ2 1 t (Δ) 390.0 μs		Spar Sweep 10.00 ms (1000 DN WIDTH FUNCTION VALUE	n 0 Hz 01 pts)
	2 F 1 t 486.0 µs 3 4 5 5 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	(Δ) -40.83 GB -10.22 dBm		E
	6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7			
3)	11 SG	m	STATUS	•
	لله المالية مالية مالية مالية مالية مالية مالية م مالية مالية ممالية مالية مالي مالية مالية مالي مالية مالية مالية مالية مالية مالية مالية مالية مالية ماليماية مالية مالية ماليمالية مالية ماليمالية ماليمة مالي ممالي ما	NT 3-DH1 2441MHz	GN AUTO 11:32:20 AM Oct	67 <b>X</b> 18, 2024
	Ref Offset 2.32 dB	NO: Fast →→ Trig: Free Run Gain:Low #Atten: 30 dB	Avg Type: Log-Pwr TRACE TYPE W TYPE W DET P	N N N N N
	0 dB/div Ref 20.00 dBm			
$\mathbf{S}$	0.00			
	10.0			
(				
	40.0	and a solid sector provided as a sector sector by a sector barran sector by the		 anaditida
	60.0			
	70.0			
	Center 2.441000000 GHz Res BW 1.0 MHz sc	#VBW 3.0 MHz	Spar Sweep 31.60 s (1000 status	n 0 Hz 01 pts)

Center Freq 2.4	PNO: Fast	SENSE:INT ALI Trig Delay-500.0 µs → Trig: Video #Atten: 30 dB	GN AUTO Avg Type: Log-Pwr	11:46:47 AM Oct 18, 2024 TRACE 1 2 3 4 5 6 TYPE WWWWWW DET P. N N N N N	
	IFGain:Low Fset 2.32 dB 0.00 dBm	#Atten: 30 dB		∆Mkr1 1.640 ms -42.83 dB	
10.0					
S of the other sectors and the sectors of the secto				TRIG LVL	
-30.0	162				
-50.0 <mark>-50.0</mark>				d Marchadada a da Marchada a da ara aray Gara da jan Kang Ang aray a da pang aray ang aray a	
-70.0 Center 2.441000				Span 0 Hz	
Res BW 1.0 MHz	X	/BW 3.0 MHz FUNCTION FUNCT I2.83 dB		D.00 ms (10001 pts)	
2 F 1 t 3 4	486.0 μs -10	21 dBm			
5 6 7 8				=	
9 10 11				· ·	
MSG	Dwell NVNT 3-		status Accumulated		
	/zer - Swept SA 50 Ω AC		GN AUTO	11:47:20 AM Oct 18, 2024	
Center Freq 2.4	41000000 GHZ PNO: Fast IFGain:Low	➡ Trig: Free Run #Atten: 30 dB	Avg Type: Log-Pwr	TRACE 123456 TYPE DET PNNNNN	
Ref Off 10 dB/div Ref 20	iset 2.32 dB 0.00 dBm				
10.0					
-10.0					
-30.0					
-40.0					
-50.0 <mark>1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.</mark>	<mark>h da na sa kina da na sa kabila sa sa na na na sa sa</mark>	<mark>terentelen er ten bill verkenden begreuteten berekenden berekenden.</mark>	and a fill of a	<mark>rahayan selé kapakan kini déné karjak</mark>	
-60.0					
Center 2.441000				Span 0 Hz	
Res BW 1.0 MHz	#\ #\	/BW 3.0 MHz	Sweep	31.60 s (10001 pts)	

TCT通测检测 TESTING CENTRE TECHNOLOGY

Report No.: TCT241009E017

-40.0 <b>40.4 (1997)</b> -50.0 <b>40.4 (1997)</b> -60.0			
Center 2.441000000 GH Res BW 1.0 MHz	Hz #VBW 3.0 MI	Hz S	Span 0 Hz weep 31.60 s (10001 pts)

## Dwell NVNT 3-DH5 2441MHz One Burst Keysight NSE:INT ALIGN Trig Delay-500.0 µs Trig: Video #Atten: 30 dB KI RL Center Freq 2.441000000 GHz

Ref Offset 2.32 dB Ref 20.00 dBm

Center 2.441000000 GHz Res BW 1.0 MHz

ım Analyzer - Swept SA

Ref Offset 2.32 dB Ref 20.00 dBm

Center Freg 2.441000000 GHz

<u>Δ2 1 t (Δ)</u> F 1 t

Keysight Spectru

10 dB/div

X sahahan di Giran kanan akahan jira kanan di sa

10 d Log

PNO: Fast ↔→ IFGain:Low

1<u>4</u>2 _

PNO: Fast ++++

2.890 ms (Δ) 352.0 μs

#VBW 3.0 MHz

Dwell NVNT 3-DH5 2441MHz Accumulated

Trig: Free Run #Atten: 30 dB

-42.67 dB -15.21 dBm

in ann deallachadh ad

## Report No.: TCT241009E017

11:47:38 AM Oct 18, 2024 TRACE 1 2 3 4 5

TYP DE

ΔMkr1 2.890 ms -42.67 dB

Span 0 Hz Sweep 10.00 ms (10001 pts)

11:48:11 AM Oct 18, 2024 TRACE **1 2 3 4 5 6** TYPE WWWWWW DET P NNNNN

Avg Type: Log-Pwr

the sector blood by the set of the sector by the set of a set of the set of the

STATUS

Avg Type: Log-Pwr

