	<b>TEST RE</b>	POR	Т			
FCC ID	2BLTA-SCW2403M		•			
Test Report No:	TCT240603E009					
Date of issue:	Jun. 19, 2024		S)		<del>(S)</del>	
Testing laboratory: :	SHENZHEN TONGCE	ETESTING	G LAB			
Testing location/ address:	2101 & 2201, Zhench Fuhai Subdistrict, Bac 518103, People's Rep	an Distric	t, Shenzhen			
Applicant's name::	EWIC PHILIPPINES I	NC.				
Address:	BLDG NOS 7&8 S BLK 2 LOT 2 EZP WAREHOUSE LAGUNA TECHNOPARK ANNEX, BARANGAY BO BINAN, BINAN, Philippines					
Manufacturer's name :	Sharetronic Data Technology Co., Ltd.					
Address:	1209 F12th Yaohuachuagnjian Building No. 6023 Shennan Blvd. Futian District Shenzhen Guangdong P.R.China					
Standard(s):	FCC CFR Title 47 Par FCC KDB 558074 D0 ANSI C63.10:2020	t 15 Subpa	art C Section	n 15.247		
Product Name::	Smart Camera					
Trade Mark:	N/A (5)					
Model/Type reference :	Refer to model list of p	bage 3				
Rating(s):	Adapter Information: Model: CS-0501000 Input: AC 100-240V, 5 Output: DC 5V, 1A	60/60Hz, 0	.5A Max.		Ś	
Date of receipt of test item :	Jun. 03, 2024	Ś				
Date (s) of performance of test:	Jun. 03, 2024 ~ Jun. 1	9, 2024				
Tested by (+signature) :	Yannie ZHONG		Yannie	TOMESE	K)	
Check by (+signature) :	Beryl ZHAO		Barge	TCT		
Approved by (+signature):	Tomsin		Tomsi	t's BA		

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# **Table of Contents**

TCT通测检测 TESTING CENTRE TECHNOLOGY

	General Pro							
	1.1. EUT desc	ription				<u>(6)</u>		3
	1.2. Model(s) I	ist						4
	1.3. Operation	Frequency	/					5
2.	Test Result	Summary	<u>(<u>k</u>S)</u>		<u>(6)</u>		<u>(6)</u>	6
3.	General Info	rmation						7
	3.1. Test envir	onment an	d mode					7
	3.2. Descriptio	on of Suppo	ort Units.					8
4.	Facilities an	d Accred	itations					9
	4.1. Facilities.							9
4	4.2. Location .							9
	4.3. Measurem	nent Uncert	ainty					9
5.	Test Results	and Mea	sureme	ent Data				10
	5.1. Antenna r	equiremen	t					10
	5.2. Conducte							
:	5.3. Maximum	Conducted	d (Peak) (	Output Pov	ver		<u>(0)</u>	15
	5.4. Emission							
	5.5. Power Sp	ectral Dens	sity					17
	5.6. Conducte	d Band Edg	ge and S	purious En	nission M	easureme	nt	18
:	5.7. Radiated	Spurious E	mission	Measurem	ent			20
Ар	pendix A: Te	est Result	t of Con	ducted T	est			
Ар	pendix B: P	hotograp	hs of Te	est Setup				
Ар	pendix C: P	hotograp	hs of El	Л				
(JC)	)	(G)						



# **1. General Product Information**

## 1.1. EUT description

Product Name:	Smart Camera
Model/Type reference:	S-CW2403M
Sample Number	TCT240603E008-0101
Operation Frequency:	2412MHz~2462MHz (802.11b/802.11g/802.11n(HT20)/802.11ax(HE20)) 2422MHz~2452MHz (802.11n(HT40)/802.11ax(HE40))
Channel Separation:	5MHz
Number of Channel:	11 for 802.11b/802.11g/802.11n(HT20)/802.11ax(HE20) 7 for 802.11n(HT40)/802.11ax(HE40)
Modulation Technology:	802.11b: Direct Sequence Spread Spectrum (DSSS) 802.11g/802.11n: Orthogonal Frequency Division Multiplexing(OFDM)
Data speed:	802.11b: 1Mbps, 2Mbps, 5.5Mbps, 11Mbps 802.11g: 6Mbps, 9Mbps, 12Mbps, 18Mbps, 24Mbps, 36Mbps, 48Mbps, 54Mbps 802.11n: Up to 150Mbps
Antenna Type:	FPC Antenna
Antenna Gain:	4.31dBi
Rating(s):	Adapter Information: Model: CS-0501000 Input: AC 100-240V, 50/60Hz, 0.5A Max. Output: DC 5V, 1A

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

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

Report No.: TCT240603E009



## 1.2. Model(s) list

Report No.: TCT240603E009

	PI(S) IISt	Tootod with
No.	Model No.	Tested with
Other models	S-CW2403M S-CW6111A01, S-CW6112A01, S-CW6110A01, S-CW6211A01, S-CW6212A01, S-CE6211A01, S-CE6212A01, S-CE6210A01, S-CW6241A01, S-CW6242A01, S-CW6311A01, S-CW6312A01, S-CW6214A01, S-CW6311A01, S-CW6314A02, S-CW6214A01, S-CW6511A01, S-CW6314A02, S-CW6111A03, S-CW6511A01, S-CW6314A02, S-CW6111A03, S-CW6112A03, S-CW6110A03, S-CW6211A03, S-CW6212A03, S-CE6211A03, S-CE6212A03, S-CE6210A03, S-CW6312A03, S-CW6242A03, S-CW6311A03, S-CW6312A03, S-CW6214A03, S-CW6311A03, S-CW6314A03, S-CW6214A03, S-CW6212A04, S-CW6314A03, S-CW6211A04, S-CW6112A04, S-CW6110A04, S-CW6211A04, S-CW6212A04, S-CE6211A04, S-CW6214A04, S-CW6311A04, S-CW6312A04, S-CW6214A04, S-CW6311A04, S-CW6312A04, S-CW6214A04, S-CW6311A04, S-CW6314A04, S-CW6214A04, S-CW6212A05, S-CW6314A04, S-CW6214A04, S-CW6212A05, S-CW6314A04, S-CW6214A04, S-CW6212A05, S-CW6314A04, S-CW6214A05, S-CW6212A05, S-CW6314A04, S-CW6214A05, S-CW6311A05, S-CW6314A05, S-CW6214A05, S-CW6311A05, S-CW6312A05, S-CW6214A05, S-CW6311A05, S-CW6312A05, S-CW6214A05, S-CW6311A05, S-CW6312A05, S-CW6214A05, S-CW6311A05, S-CW6314A05, S-CW6214A05, S-CW6311A05, S-CW6314A05, S-CW6214A05, S-CW6311A05, S-CW6314A05, S-CW6214A05, S-CW6311A05, S-CW6314A05, S-CW6214A05, S-CW6311A06, S-CW6314A05, S-CW6214A05, S-CW6311A06, S-CW6314A06, S-CW6214A06, S-CW6311A06, S-CW6312A06, S-CW6242A06, S-CW6311A06, S-CW6312A06, S-CW6242A06, S-CW6311A06, S-CW6314A06, S-CW6242A06, S-CW6311A06, S-CW6314A06, S-CW6242A06, S-CW6311A06, S-CW6314A06, S-CW624A06, S-CW6311A06, S-CW6314A06, S-CW624A06, S-CW6311A06, S-CW6314A06, S-CW624A06, S-CW6314A06, S-CW6314A06, S-CW624A06, S-CW6244A06, S-CW6314A06, S-CW624A06, S-CW6244A06, S-CW6314A06, S-CW624A06, S-CW6244A06, S-CW6314A06, S-CW5200-Halow, IMIKI C500	
	I is tested model, other models are derivative models. The models are iden ifferent on the model names and appearance. So the test data of S-CW24 odels.	
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## 1.3. Operation Frequency

#### For 802.11b/g/n(HT20)/ax(HE20)

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2412MHz	4	2427MHz	7	2442MHz	10	2457MHz
2	2417MHz	5	2432MHz	8	2447MHz	11	2462MHz
3	2422MHz	6	2437MHz	9	2452MHz		

## For 802.11n (HT40)/ax(HE40)

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
		4	2427MHz	7	2442MHz		
C)	(	5	2432MHz	8	2447MHz	G`)	(20
3	2422MHz	6	2437MHz	9	2452MHz		

Note:

In section 15.31(*m*), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

#### 802.11b/802.11g/802.11n (HT20)/802.11ax (HE20)

Frequency
2412MHz
2437MHz
2462MHz

#### 802.11n (HT40)/802.11ax (HE40)

Channel	Frequency
The lowest channel	2422MHz
The middle channel	2437MHz
The Highest channel	2452MHz



# 2. Test Result Summary

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

Note:

- 1. PASS: Test item meets the requirement.
- 2. Fail: Test item does not meet the requirement.
- 3. N/A: Test case does not apply to the test object.
- 4. The test result judgment is decided by the limit of test standard.

# 3. General Information

### 3.1. Test environment and mode

Condition	Conducted Emission	Dedicted Englacian
Condition	Conducted Emission	Radiated Emission
Temperature:	22.8 °C	23.3 °C
Humidity:	49 % RH	52 % RH
Atmospheric Pressure:	1010 mbar	1010 mbar
Test Software:		
Software Information:	SSCOM V5.13.1	S
Power Level:	9	
Test Mode:		
	Keep the EUT in continuous	transmitting by select

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

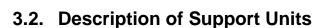
We have verified the construction and function in typical operation. All the test modes were carried out with the EUT in transmitting operation, which was shown in this test report and defined as follows:

Per-scan all kind of data rate in lowest channel, and found the follow list which it was worst case.

Mode	Data rate
802.11b	1Mbps
802.11g	6Mbps
802.11n(HT20)	6.5Mbps
802.11n(HT40)	13.5Mbps
802.11ax(HE20)	6.5Mbps
802.11ax(HE40)	13.5Mbps

Page 7 of 99





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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	1	1	1	1
(20)	20		¿G`)	(20)

#### Note:

- 1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
- 2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.
- 3. For conducted measurements (Output Power, 6dB Emission Bandwidth, Power Spectral Density, Spurious Emissions), the antenna of EUT is connected to the test equipment via temporary antenna connector, the antenna connector is soldered on the antenna port of EUT, and the temporary antenna connector is listed in the Test Instruments.





# 4. Facilities and Accreditations

## 4.1. Facilities

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

• FCC - Registration No.: 645098

SHENZHEN TONGCE TESTING LAB

Designation Number: CN1205

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

•IC - Registration No.: 10668A

SHENZHEN TONGCE TESTING LAB

CAB identifier: CN0031

The testing lab has been registered by Innovation, Science and Economic Development Canada for radio equipment testing.

## 4.2. Location

### SHENZHEN TONGCE TESTING LAB

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

## 4.3. Measurement Uncertainty

The reported uncertainty of measurement  $y \pm U$ , where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95 %.

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



# 5. Test Results and Measurement Data

## 5.1. Antenna requirement

## 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:

2 28

(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 WIFI antenna is FPC antenna which permanently attached, and the best case gain of the antenna is 4.31dBi.





# 5.2. Conducted Emission

### 5.2.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.207					
Fest 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 (	Limit (dBuV)			
	(MHz)	Quasi-peak	Average			
_imits:	0.15-0.5	66 to 56*	56 to 46*			
	0.5-5	56	46			
	5-30	60	50			
	Referenc	e Plane				
Fest Setup:	40cm         E.U.T       AC power         80cm       LISN         Test table/Insulation plane       Filter         Remark:       EMI         E.U.T: Equipment Under Test       EMI         LISN: Line Impedence Stabilization Network       Retwork         Test table height=0.8m       Retwork					
Test Mode:	Transmitting Mode		0			
Fest Procedure:	<ol> <li>The E.U.T is connected to the main power throug line impedance stabilization network (L.I.S.N.). The provides a 500hm/50uH coupling impedance for measuring equipment.</li> <li>The peripheral devices are also connected to the measuring equipment.</li> <li>The peripheral devices are also connected to the measuring impedance with 500hm termination. (Pleater to the block diagram of the test setup at the photographs).</li> <li>Both sides of A.C. line are checked for maximum emission, the relative positions of equipment and a the interface cables must be changed according ANSI C63.10:2020 on conducted measurement.</li> </ol>					

Page 11 of 99



### 5.2.2. Test Instruments

Conducted Emission Shielding Room Test Site (843)						
Equipment	Manufacturer	Model	Serial Number	Calibration Due		
EMI Test Receiver	R&S	ESCI3	100898	Jun. 29, 2024		
Line Impedance Stabilisation Newtork(LISN)	Schwarzbeck	NSLK 8126	8126453	Jan. 31, 2025		
Line-5	ТСТ	CE-05	/	Jul. 03, 2024		
EMI Test Software	Shurple Technology	EZ-EMC	1	1		

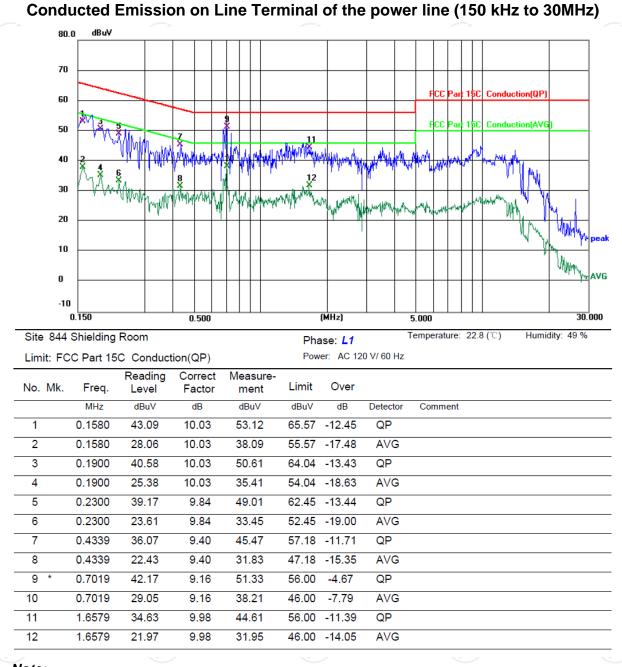


Page 12 of 99

### 5.2.3. Test data

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Please refer to following diagram for individual



#### 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

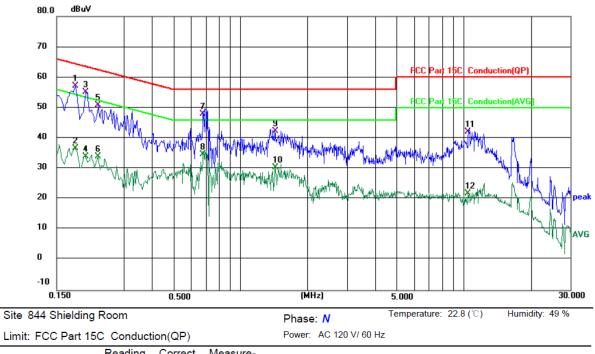
 $Margin (dB) = Measurement (dB\mu V) - Limits (dB\mu V)$ 

Q.P. =Quasi-Peak

AVG =average

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

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



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.1819	47.22	10.01	57.23	64.40	-7.17	QP	
2		0.1819	26.76	10.01	36.77	54.40	-17.63	AVG	
3		0.2020	45.04	10.02	55.06	63.53	-8.47	QP	
4		0.2020	24.01	10.02	34.03	53.53	-19.50	AVG	
5		0.2300	40.97	9.82	50.79	62.45	-11.66	QP	
6		0.2300	24.21	9.82	34.03	52.45	-18.42	AVG	
7		0.6820	38.70	9.15	47.85	56.00	-8.15	QP	
8		0.6820	25.54	9.15	34.69	46.00	-11.31	AVG	
9		1.4259	32.46	9.91	42.37	56.00	-13.63	QP	
10		1.4259	20.43	9.91	30.34	46.00	-15.66	AVG	
11		10.5060	31.55	10.62	42.17	60.00	-17.83	QP	
12		10.5060	11.30	10.62	21.92	50.00	-28.08	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  $(dB\mu V)$  – 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.

Page 14 of 99



# 5.3. Maximum Conducted (Peak) Output Power

## 5.3.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (b)(3)		
Test Method:	KDB 558074 D01 v05r02		
Limit:	30dBm		
Test Setup:	Power meter EUT		
Test Mode:	Transmitting mode with modulation		
Test Procedure:	<ol> <li>The RF output of EUT was connected to the power meter by RF cable. The path loss was compensated to the results for each measurement.</li> <li>Set to the maximum power setting and enable the EUT transmit continuously.</li> <li>Measure the Peak output power and record the results in the test report.</li> </ol>		
Test Result:	PASS		

### 5.3.2. Test Instruments

	Equipment	Manufacturer	Model	Serial Number	Calibration Due
S	Power Sensor	Agilent	8184A	MY41096530	Jun. 01, 2024
	Power Meter	Agilent	E4418B	MY45100357	Jun. 27, 2024



## 5.4. Emission Bandwidth

## 5.4.1. Test Specification

Test Requirement:	FCC Part15 C S	ection 15.247 (a	)(2)		
Test Method:	KDB 558074 D0	1 v05r02			
Limit:	>500kHz				
Test Setup:					
	Spectrum Analyzer		EUT		
Test Mode:	Transmitting mode with modulation				
Test Procedure:	EUT transmit 2. Make the mea resolution ba Video bandw an accurate be greater th	t continuously. asurement with t ndwidth (RBW) ridth (VBW) = 30 measurement. T an 500 kHz.	tting and enable the he spectrum analyzer's = 100 kHz. Set the 0 kHz. In order to make he 6dB bandwidth must ts in the test report.		
Test Result:	PASS	$(\vec{c})$			

### 5.4.2. Test Instruments

N	Equipment	Manufacturer	Model	Serial Number	Calibration Due
	Spectrum Analyzer	Agilent	N9020A	MY49100619	Jun. 28, 2024
	Combiner Box	Ascentest	AT890-RFB	(c) I	(CY



# 5.5. Power Spectral Density

## 5.5.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (e)			
Test Method:	KDB 558074			
Limit:	The peak power spectral density shall not be greated than 8dBm in any 3kHz band at any time interval of continuous transmission.			
Test Setup:	Spectrum Analyzer EUT			
Test Mode:         Transmitting mode with modulation				
Test Procedure:	<ol> <li>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.</li> <li>Set to the maximum power setting and enable the EUT transmit continuously.</li> <li>Make the measurement with the spectrum analyzer's resolution bandwidth (RBW): 3 kHz ≤ RBW ≤ 100 kHz. Video bandwidth VBW ≥ 3 x RBW. Set the span to at least 1.5 times the OBW.</li> <li>Detector = Peak, Sweep time = auto couple.</li> <li>Trace mode =max hold. Use the peak marker function to determine the maximum power level.</li> <li>Measure and record the results in the test report.</li> </ol>			
Test Result:	PASS (S)			

#### 5.5.2. Test Instruments

	Equipment	Manufacturer	Model	Serial Number	Calibration Due
	Spectrum Analyzer	Agilent	N9020A	MY49100619	Jun. 28, 2024
	Combiner Box	Ascentest	AT890-RFB	1	1
4y					



# 5.6. Conducted Band Edge and Spurious Emission Measurement

### 5.6.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (d)
Test Method:	KDB558074
Limit:	In any 100 kHz bandwidth outside of the authorized frequency band, the emissions which fall in the non-restricted bands shall be attenuated at least 20 dB / 30dB relative to the maximum PSD level in 100 kHz by RF conducted measurement and radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a).
Test Setup:	Spectrum Analyzer
Test Mode:	Transmitting mode with modulation
Test Procedure:	<ol> <li>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.</li> <li>Set to the maximum power setting and enable the EUT transmit continuously.</li> <li>Set RBW = 100 kHz, VBW=300 kHz, Peak Detector. Unwanted Emissions measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz when maximum peak conducted output power procedure is used. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB per 15.247(d).</li> <li>Measure and record the results in the test report.</li> <li>The RF fundamental frequency should be excluded against the limit line in the operating frequency band.</li> </ol>
	PASS



### 5.6.2. Test Instruments

	Equipment	Manufacturer	Model	Serial Number	Calibration Due
(	Spectrum Analyzer	Agilent	N9020A	MY49100619	Jun. 28, 2024
Ň	Combiner Box	Ascentest	AT890-RFB	7	/



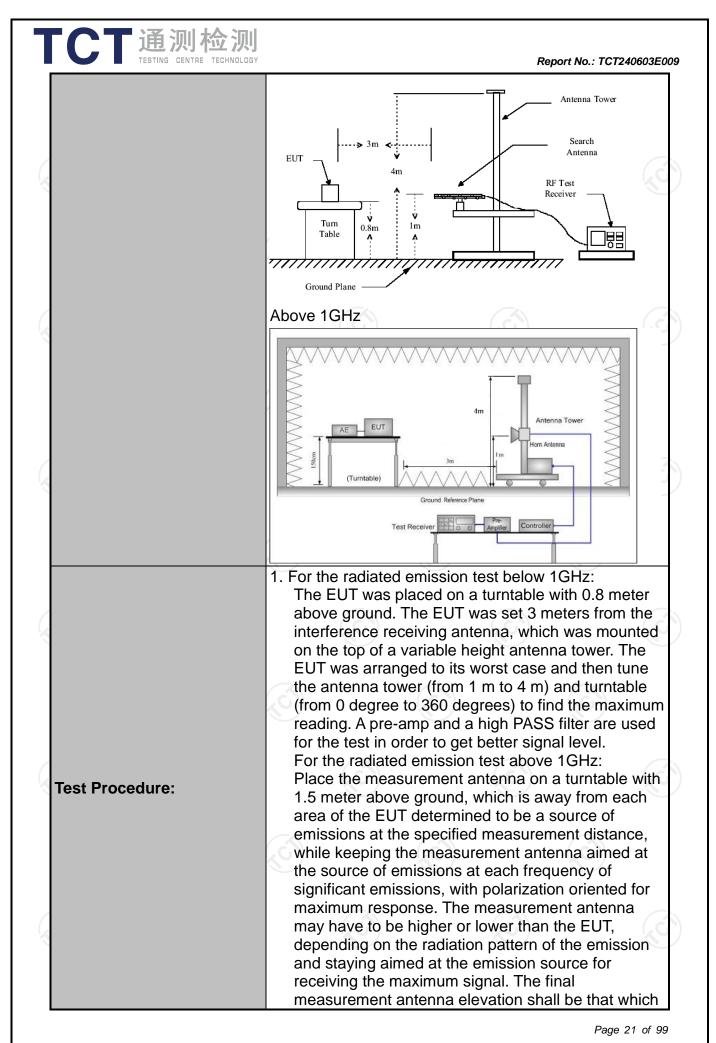


## 5.7. Radiated Spurious Emission Measurement

### 5.7.1. Test Specification

Test Requirement:	FCC Part15	C Sectior	ח 15.209	$\mathcal{G}$								
Test Method:	ANSI C63.10	):2020										
Frequency Range:	9 kHz to 25 (	GHz										
Measurement Distance:	3 m		$(\mathbf{G})$		$\langle \mathcal{G} \rangle$							
Antenna Polarization:	Horizontal &	Vertical										
Operation mode:	Transmitting	mode wi	with modulation									
	Frequency Detector		RBW	VBW	Remark							
	9kHz- 150kHz	Quasi-pea		1kHz	Quasi-peak Value							
Receiver Setup:	150kHz- 30MHz	Quasi-pea		30kHz	Quasi-peak Value							
	30MHz-1GHz	Quasi-pea	k 120KHz	300KHz	Quasi-peak Value							
		Peak	1MHz	3MHz	Peak Value							
	Above 1GHz	Peak	1MHz	10Hz	Average Value							
	Frequen	су	Field Stre (microvolts		Measurement Distance (meters)							
	0.009-0.4	190	2400/F(I	(Hz)	300							
	0.490-1.7	<b>'</b> 05	24000/F(		30							
	1.705-3	0	30		30							
	30-88		100		3							
	88-216	150		3								
Limit:	216-960				3							
	Above 9	60	500		3							
	Frequency Above 1GHz	Measurer Distand (meter 3 3	ce Detector									
Test setup:	For radiated	stance = 3m	s below 30	Pre -A	Computer							

Page 20 of 99



TCT通测检测	
TESTING CENTRE TECHNOLOGY	Report No.: TCT240603E009
	<ul> <li>maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.</li> <li>Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level</li> <li>For measurement below 1GHz, If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.</li> <li>Use the following spectrum analyzer settings: <ul> <li>Source the following measured;</li> <li>Set RBW=120 kHz for f &lt; 1 GHz; VBW ≥ RBW; Sweep = auto; Detector function = peak; Trace = max hold;</li> </ul> </li> </ul>
Test results:	<ul> <li>(3) Set RBW = 1 MHz, VBW= 3MHz for f &gt;1 GHz for peak measurement.</li> <li>For average measurement: VBW = 10 Hz, when duty cycle is no less than 98 percent. VBW ≥ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.</li> </ul>



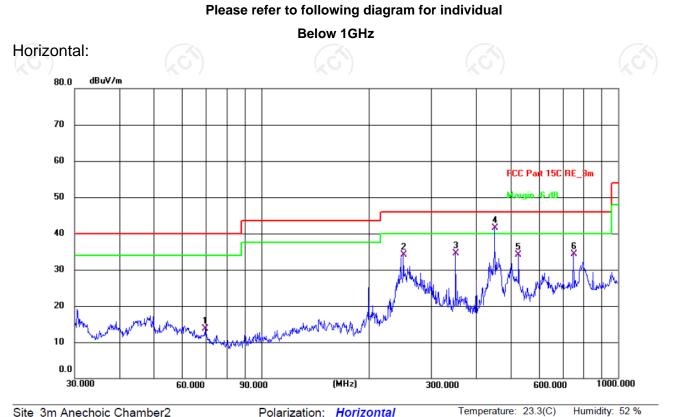
## 5.7.2. Test Instruments

	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	Jan. 31, 2025
Pre-amplifier	SKET	LNPA_1840G- 50	SK2021092 03500	Jan. 31, 2025
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. 02, 2025
Antenna Mast	Keleto	RE-AM	/	/
Coaxial cable	SKET	RC-18G-N-M	1	Jan. 31, 2025
Coaxial cable	SKET	RC_40G-K-M	/	Jan. 31, 2025
EMI Test Software	Shurple Technology	EZ-EMC		/ 6





### 5.7.3. Test Data



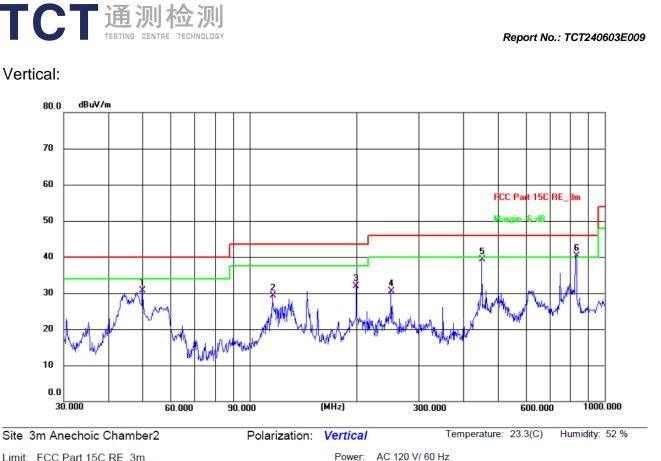
Site 3m Anechoic Chamber2 Polarization: Horizontal

Limit: FCC Part 15C RE 3m

Power: AC 120 V/ 60 Hz

		oor alt loo h	<u></u>							
1	No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
	1	69.6005	33.88	-20.17	13.71	40.00	-26.29	QP	Р	
	2	250.3012	52.79	-18.69	34.10	46.00	-11.90	QP	Р	
	3	350.4768	50.82	-16.33	34.49	46.00	-11.51	QP	Р	
-	4 *	451.1350	54.71	-13.28	41.43	46.00	-4.57	QP	Р	
	5	526.3967	45.66	-11.64	34.02	46.00	-11.98	QP	Р	
	6	750.1083	41.21	-6.82	34.39	46.00	-11.61	QP	Ρ	

Page 24 of 99



LIII	III. F	CC Part 15C R	⊑_siii			1	ower. A	0 120 17 0	0112	
N	۱o.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
	1	50.0566	49.10	-18.46	30.64	40.00	-9.36	QP	Р	
	2	116.1321	48.85	-19.46	29.39	43.50	-14.11	QP	Р	
	3	199.9855	52.70	-20.76	31.94	43.50	-11.56	QP	Р	
	4	250.3011	49.23	-18.69	30.54	46.00	-15.46	QP	Р	
	5	451.1350	52.51	-13.28	39.23	46.00	-6.77	QP	Р	
6	6 *	830.4001	46.25	-5.97	40.28	46.00	-5.72	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

- Measurements were conducted in all three channels (high, middle, low) and all modulation(802.11b, 802.11g, 802.11n(HT20), 802.11ax(HE20), 802.11n(HT40), 802.11ax(HE40)), and the worst case Mode (Middle channel and 802.11ax(HE20)) was submitted only.
- 3. Freq. = Emission frequency in MHz

 $Measurement (dB\mu V/m) = Reading \ level (dB\mu V) + Corr. \ Factor (dB)$ 

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

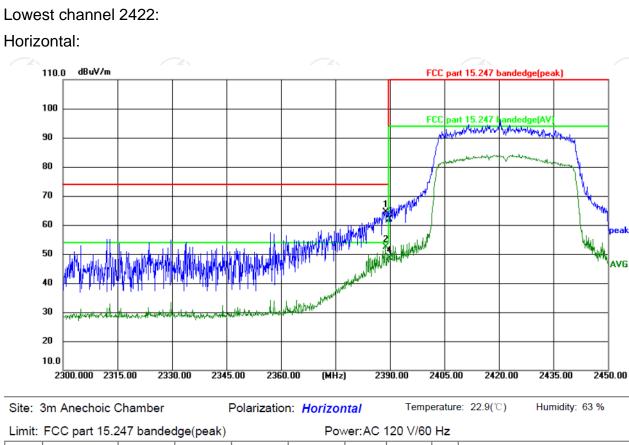
 $^{*}$  is meaning the worst frequency has been tested in the test frequency range.

Page 25 of 99



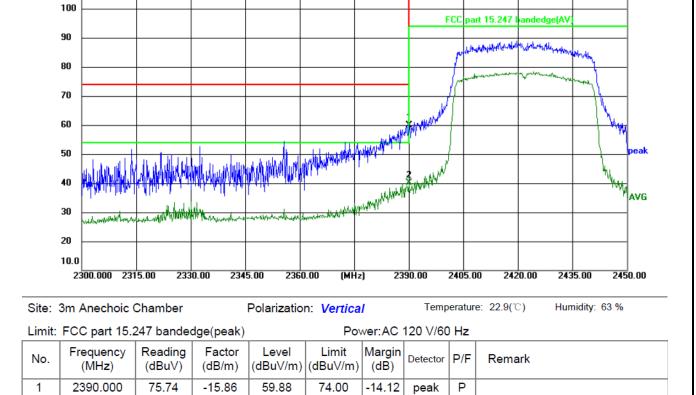
AVG

Test Result of Radiated Spurious at Band edges



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector	P/F	Remark
1	2388.785	80.31	-15.87	64.44	74.00	-9.56	peak	Р	
2 *	2388.785	68.34	-15.87	52.47	54.00	-1.53	AVG	Р	
3	2390.000	77.79	-15.86	61.93	74.00	-12.07	peak	Р	
4	2390.000	64.46	-15.86	48.60	54.00	-5.40	AVG	Р	





**Note:** Measurements were conducted in all two channels (high, low) and all modulation (802.11b, 802.11g, 802.11n(HT20), 802.11ax(HE20), 802.11n(HT40), 802.11ax(HE40)), and the worst case Mode 802.11ax(HE40)) was submitted only.

54.00

-13.78

Ρ

AVG

40.22

-15.86

			Page	27 of 99

Vertical:

2

\*

2390.000

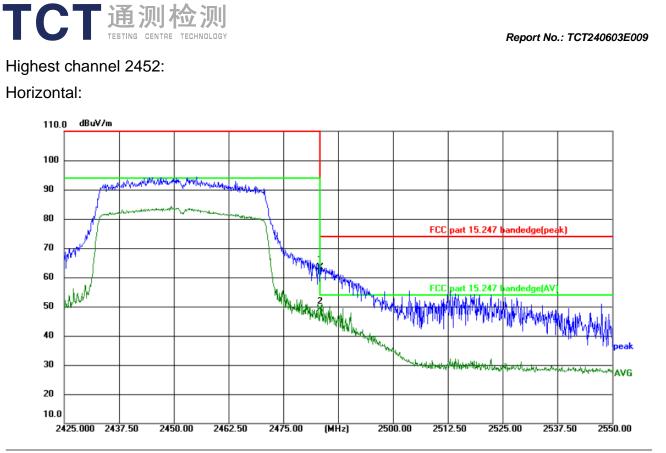
56.08

dBuV/m

110.0

Report No.: TCT240603E009

FCC part 15.247 bandedge(peak)

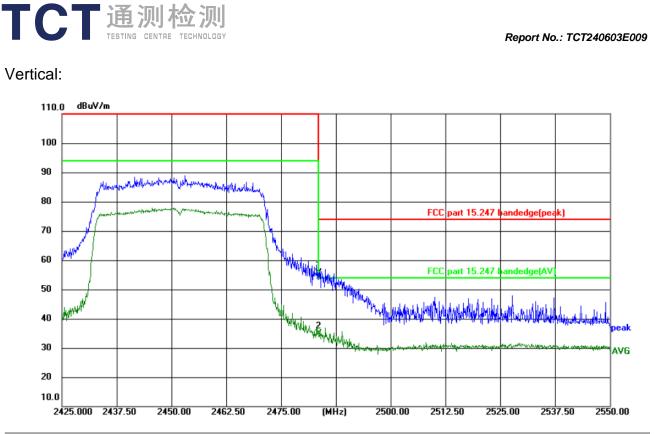


Site: 3m Anechoic ChamberPolarization: HorizontalTemperature: 22.9(°C)Humidity: 63 %

Limit:	FCC part 15.2	247 banded	dge(peak)		Po	wer:AC	120 V/60	) Hz	
No.	Frequency (MHz)	Reading (dBuV)		Level (dBuV/m)		Margin (dB)	Detector	P/F	Remark
1	2483.500	79.15	-15.87	63.28	74.00	-10.72	peak	Ρ	
2 *	2483.500	65.05	-15.87	49.18	54.00	-4.82	AVG	Ρ	



Page 28 of 99



Site: 3	3m Anechoic C	Chamber	F	Polarizatior	n: Vertica	I	Temp	erature	e: 22.9(℃)	Humidity: 63 %	
Limit:	Limit: FCC part 15.247 bandedge(peak) Power:AC 120 V/60 Hz										
No.	Frequency (MHz)	Reading (dBuV)		Level (dBuV/m)		Margin (dB)	Detector	P/F	Remark		
1 *	2483.500	71.44	-15.87	55.57	74.00	-18.43	peak	Ρ			
2	2483.500	50.72	-15.87	34.85	54.00	-19.15	AVG	Ρ			

- 1. Peak Final Emission Level=Peak Reading + Correction Factor;
- 2. Correction Factor= Antenna Factor + Cable loss – Pre-amplifier
- 3. Measurements were conducted in all modulation(802.11b, 802.11g, 802.11n(HT20), 802.11ax(HE20), 802.11n(HT40), 802.11ax(HE40)), and the worst case Mode 802.11ax(HE40)) was submitted only.

Page 29 of 99

Report No.: TCT240603E009

			M	odulation T	ype: 802.11	lb			
			L	ow channe	I: 2412 MH	z			
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBuV)	Correction Factor (dB/m)	Emissic Peak (dBµV/m)	n Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
4824	Н	45.21		0.75	45.96		74	54	-8.04
7236	Н	33.93		9.87	43.80		74	54	-10.20
	Н								
4824	V	44.99		0.75	45.74		74	54	-8.26
7236	V	33.16	<del>(</del> 2G	9.87	43.03	G`)	74	54	-10.97
	V				~				

Above 1GHz

	Middle channel: 2437 MHz												
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)	Emissic Peak (dBµV/m)	n Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)				
4874	Н	44.87		0.97	45.84		74	54	-8.16				
7311	Н	31.65		9.83	41.48		74	54	-12.52				
	H				(								
			KO.	)	X								
4874	V	42.41		0.97	43.38	·	74	54	-10.62				
7311	V	31.74		9.83	41.57		74	54	-12.43				
	V												

			Н	ligh channe	el: 2462 MH	Z			
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)	Emissic Peak (dBµV/m)	n Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
4924	H	43.06		1.18	44.24		74	54	-9.76
7386	Н	34.29		10.07	44.36	<u> </u>	74	54	-9.64
	Н								
4924	V	43.83		1.18	45.01		74	54	-8.99
7386	V	33.78		10.07	43.85		74	54	-10.15
	V			🤇	)				

#### Note:

TCT通测检测 TESTING CENTRE TECHNOLOGY

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

2. Margin (dB) = Emission Level (Peak) (dBµV/m)-Average limit (dBµV/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. The highest test frequency is 25GHz.

5. Data of measurement shown "---"in the above table mean that the reading of emissions is attenuated more than 20 dB

below the limits or the field strength is too small to be measured.

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

	TESTI	NG CENTRE TEC	HNOLOGY			Rep	ort No.: TCT24	10603E009	
			Μ	odulation T	ype: 802.11	lg			
			L	ow channe	I: 2412 MH	Z			
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBuV)	Correction Factor (dB/m)	Emissic Peak (dBµV/m)	n Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
4824	Н	44.93		0.75	45.68		74	54	-8.32
7236	Н	34.54		9.87	44.41		74	54	-9.59
· · · · ·	Н			X	· · · ·		<u> </u>		
4824	V	43.29		0.75	44.04		74	54	-9.96
7236	N-	33.41	( )	9.87	43.28	~~	74	54	-10.72
	V		{20	•)		G`)		(, G)	
		•			2		•		

	Middle channel: 2437 MHz											
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)	Emissic Peak (dBµV/m)	n Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)			
4874	Н	43.02		0.97	43.99		74	54	-10.01			
7311	Н	32.26		9.83	42.09		74	54	-11.91			
	Н											
				2	(							
4874	V	42.91		0.97	43.88		74	54	-10.12			
7311	V	31.66		9.83	41.49		74	54	-12.51			
	V											

			h H	ligh channe	el: 2462 MH	Z			
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)	Emissic Peak (dBµV/m)	n Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
4924	H_	43.48		1.18	44.66		74	54	-9.34
7386	H	33.23		10.07	43.30	<u> </u>	74	54	-10.70
	H			/		<u> </u>			
4924	V	44.59		1.18	45.77		74	54	-8.23
7386	V	34.47		10.07	44.54		74	54	-9.46
	V	Ú <del>,</del>		(, (			<u> </u>		
Mada									

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

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

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

4. Measurements were conducted from 1 GHz to the 10th harmonic of highest fundamental frequency. The highest test frequency is 25GHz.

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

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

**ГСТ**通测检测

TC	T	<b>的加松</b>					Rep	ort No.: TCT24	40603E009
			Modu	lation Type	: 802.11n (l	HT20)			
			L	ow channe	I: 2412 MH	z			
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBuV)	Correction Factor (dB/m)	Emissic Peak (dBµV/m)	n Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
4824	Н	42.25		0.75	43.00		74	54	-11.00
7236	Н	30.41		9.87	40.28		74	54	-13.72
	Н			"()"	· · · ·				
4824	V	43.08		0.75	43.83		74	54	-10.17
7236	V	32.36	(	9.87	42.23	~	74	54	-11.77
	V			)		<b>S</b> )		(2G)	

	Middle channel: 2437 MHz											
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)	Emissic Peak (dBµV/m)	n Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)			
4874	Н	42.83		0.97	43.80		74	54	-10.20			
7311	Н	32.17		9.83	42.00		74	54	-12.00			
	Н											
				6	(							
4874	V	44.70		0.97	45.67		74	54	-8.33			
7311	V	33.55		9.83	43.38		74	54	-10.62			
	V											

			H	ligh channe	I: 2462 MH	Z			
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)	Emissic Peak (dBµV/m)	n Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
4924	H_	41.09		1.18	42.27		74	54	-11.73
7386	H	32.98		10.07	43.05	<u> </u>	74	54	-10.95
	Н			/		<u> </u>			
4924	V	43.46		1.18	44.64		74	54	-9.36
7386	V	33.42		10.07	43.49		74	54	-10.51
	V	Ú <del>,</del>		(, (	<u> </u>		<u>, G-+</u>		(
Mada									

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

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

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

4. Measurements were conducted from 1 GHz to the 10th harmonic of highest fundamental frequency. The highest test frequency is 25GHz.

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

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

	TEST	NG CENTRE TEC	HNOLOGY				Repo	ort No.: TCT24	<i>10603E009</i>
			Modul	ation Type:	802.11ax (	HE20)			
			L	ow channe	I: 2412 MH	z			
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBuV)	Correction Factor (dB/m)	Emissic Peak (dBµV/m)	n Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
4824	Н	42.93		0.75	43.68		- 74	54	-10.32
7236	Н	30.44		9.87	40.31		74	54	-13.69
	Н			V	)				
4824	V	43.82		0.75	44.57		74	54	-9.43
7236	V	32.16		9.87	42.03		74	54	-11.97
	V			·)		G`}		$(\mathcal{G}^{2})$	

	Middle channel: 2437 MHz											
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)	Emissic Peak (dBµV/m)	n Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)			
4874	Н	42.58		0.97	43.55		74	54	-10.45			
7311	Н	32.87		9.83	42.70		74	54	-11.30			
	Н											
				6	(							
4874	V	44.71		0.97	45.68	<u> </u>	74	54	-8.32			
7311	V	33.80		9.83	43.63		74	54	-10.37			
	V											

					- A.				A
$(\mathbf{c})$			) F	ligh channe	el: 2462 MH	z	(a)		
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)	Emissic Peak (dBµV/m)	n Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
4924	H.	41.86		1.18	43.04		74	54	-10.96
7386	H	32.03		10.07	42.10	<u> </u>	74	54	-11.90
	H			/		<u> </u>			
4924	V	43.42		1.18	44.60		74	54	-9.40
7386	V	33.36		10.07	43.43		74	54	-10.57
$(-\Theta)$	V	C <del>( </del>		(, (	5)		$\mathcal{S}^{2}$		(
Matai			1						

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

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

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

4. Measurements were conducted from 1 GHz to the 10th harmonic of highest fundamental frequency. The highest test frequency is 25GHz.

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

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

TCT通测检测

TC		<b>的加松</b>					Repo	ort No.: TCT24	40603E009
			Modu	lation Type	: 802.11n (l	HT40)			
			L	ow channe.	I: 2422 MH	z			
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBuV)	Correction Factor (dB/m)	Emissic Peak (dBµV/m)	n Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
4844	Н	41.86		0.75	42.61		74	54	-11.39
7266	Н	31.65		9.87	41.52		74	54	-12.48
	Н			"()"	····				
4824	V	43.21		0.75	43.96		74	54	-10.04
7236	V	33.76	( )	9.87	43.63	×	74	54	-10.37
	V			)	(2	<u> </u>			

	Middle channel: 2437 MHz											
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	ading (dBuv) Factor Peak AV (		Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)					
4874	Н	44.27		0.97	45.24		74	54	-8.76			
7311	Н	33.44		9.83	43.27		74	54	-10.73			
	Н											
				6	(							
4874	V	45.03		0.97	46.00	<u> </u>	74	54	-8.00			
7311	V	36.31		9.83	46.14		74	54	-7.86			
	V											

$(\mathbf{a})$		()	) F	ligh channe	el: 2452 MH	z	(a)		
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)	Emissic Peak (dBµV/m)	n Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
4904	H	42.82		1.18	44.00		74	54	-10.00
7356	Н	31.47		10.07	41.54	<u> </u>	74	54	-12.46
	H			/	X	<u> </u>			
4904	V	44.66		1.18	45.84		74	54	-8.16
7356	V	32.08		10.07	42.15		74	54	-11.85
	V			(, (					
Mada									

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

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

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

4. Measurements were conducted from 1 GHz to the 10th harmonic of highest fundamental frequency. The highest test frequency is 25GHz.

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

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

TC		<b>的加松</b>					Repo	ort No.: TCT24	10603E009
			Modula	ation Type:	802.11ax (	HE40)			
			L	ow channe.	l: 2422 MH	Z			
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBuV)	Correction Factor (dB/m)	Emissic Peak (dBµV/m)	n Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
4844	Н	41.87		0.75	42.62		74	54	-11.38
7266	Н	31.15		9.87	41.02		74	54	-12.98
	Н			V	· · · ·		<u> </u>		
4824	V	43.38		0.75	44.13		74	54	-9.87
7236	N	33.71		9.87	43.58		74	54	-10.42
	V			)	(	<u> </u>			

Middle channel: 2437 MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)	Emissic Peak (dBµV/m)	n Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
4874	Н	44.13		0.97	45.10		74	54	-8.90
7311	Н	33.46		9.83	43.29		74	54	-10.71
	Н								
4874	V	45.84		0.97	46.81	<u> </u>	74	54	-7.19
7311	V	36.25		9.83	46.08		74	54	-7.92
	V								

$(\mathbf{c})$		()	High channel: 2452 MHz						$(\mathbf{c})$
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)	Emissic Peak (dBµV/m)	n Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
4904	H	42.09		1.18	43.27		74	54	-10.73
7356	H	31.92		10.07	41.99	<u> </u>	74	54	-12.01
	H			/	`	<u> </u>			
4904	V	44.88		1.18	46.06		74	54	-7.94
7356	V	32.11		10.07	42.18		74	54	-11.82
$(\mathbf{G})$	V	<del>G</del>		(, (	5)		, G <del>}</del>		(6`)
Mater			/						

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

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

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

4. Measurements were conducted from 1 GHz to the 10th harmonic of highest fundamental frequency. The highest test frequency is 25GHz.

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

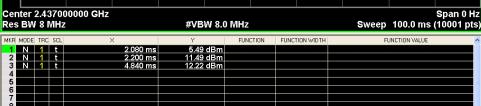
6. All the restriction bands are compliance with the limit of 15.209.



# Appendix A: Test Result of Conducted Test

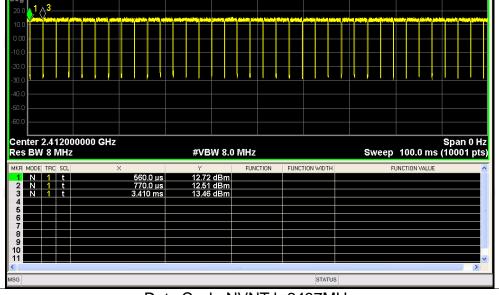
Duty Cycle							
Condition	Mode	Frequency (MHz)	Duty Cycle (%)	Correction Factor (dB)			
NVNT	b	2412	94.35	0.25			
NVNT	b	2437	95.00	0.22			
NVNT	b	2462	95.63	0.19			
NVNT	g	2412	88.81	0.52			
NVNT	g	2437	89.81	0.47			
NVNT	g	2462	90.41	0.44			
NVNT	n20	2412	99.10	0			
NVNT	n20	2437	99.10	0			
NVNT	n20	2462	99.50	0			
NVNT	n40	2422	98.70	0			
NVNT	n40	2437	99.10	0			
NVNT	n40	2452	99.10	0(~)			
NVNT	ax20	2412	96.87	0.14			
NVNT	ax20	2437	96.04	0.18			
NVNT	ax20	2462	96.83	0.14			
NVNT	ax40	2422	96.00	0.18			
NVNT	ax40	2437	96.57	0.15			
NVNT	ax40	2452	96.77	0.14			

Page 36 of 99



### Duty Cycle NVNT b 2437MHz

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



**Test Graphs** Duty Cycle NVNT b 2412MHz

SENSE:PULSE SOURCE OFF 🛕 A

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

TO/NORF Avg Type: Log-Pwr

Avg Type: Log-Pwr

### SENSE: PULSE SOURCE OFF ALIGN A

#### Page 37 of 99

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

#### Report No.: TCT240603E009

04:35:59 PM Jun 14, 2024 TRACE 1 2 3 4 5 6 TYPE WWWWWW DET P N N N N N

Mkr1 560.0 µs 12.72 dBm

04:39:20 PM Jun 14, 2024

Mkr1 2.080 ms 5.49 dBm

TRACE 1 2 3 4 TYPE WWWW DET P N N N

gilent Spectrum Analyzer - Swept SA

Center Freq 2.412000000 GHz

Ref Offset 6.88 dB Ref 30.00 dBm

R

10 dB/div ∟og **r** 

U R

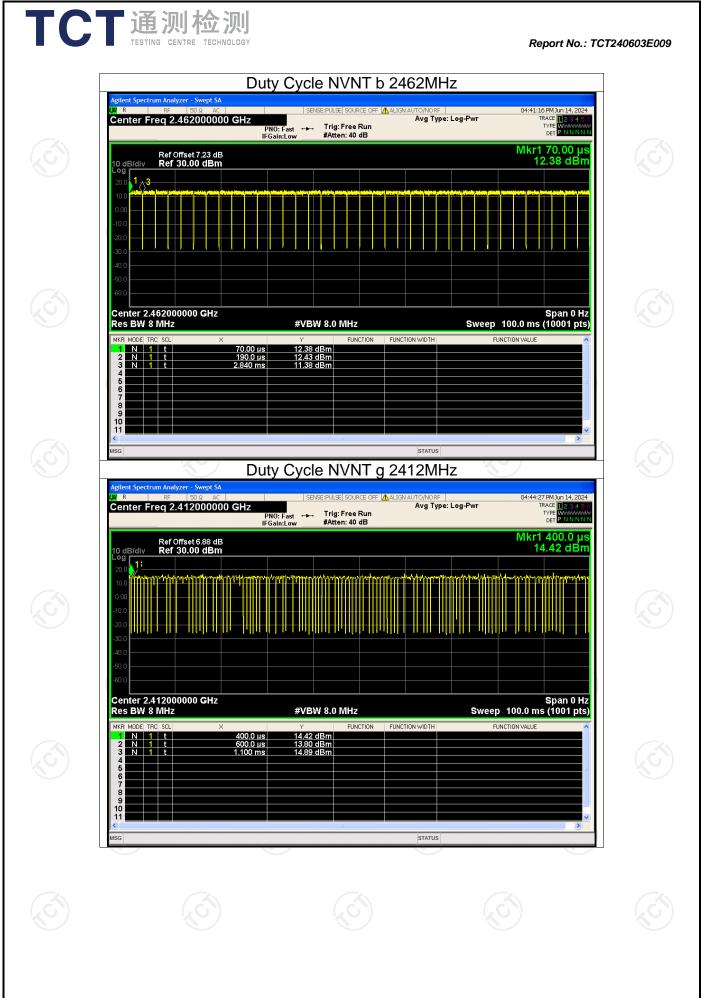
10 dB/div Log r

<mark>?∧3</mark>

Center Freq 2.437000000 GHz

Ref Offset 7.12 dB Ref 30.00 dBm





Page 38 of 99

Page 39 of 99

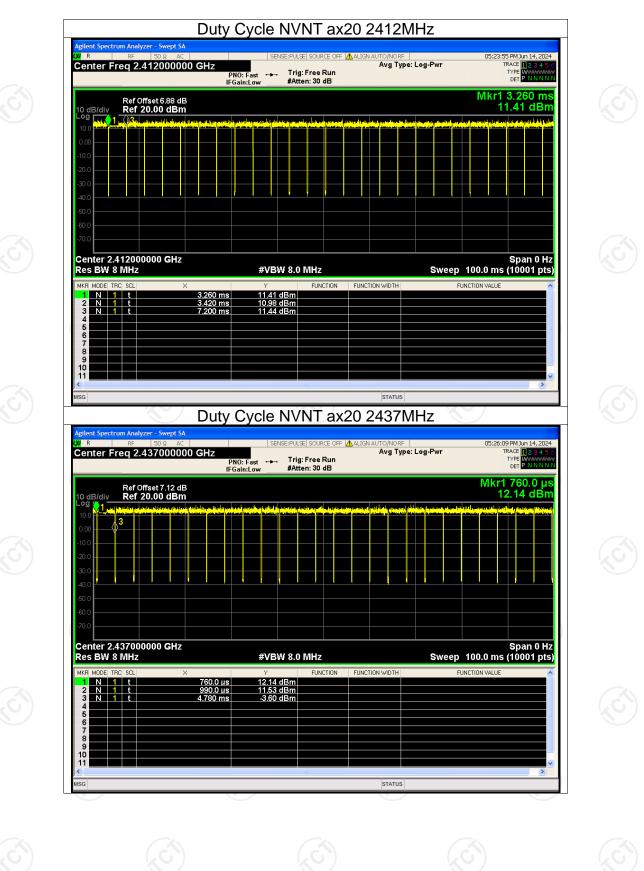
Report No.: TCT240603E009

Page 40 of 99

Page 41 of 99

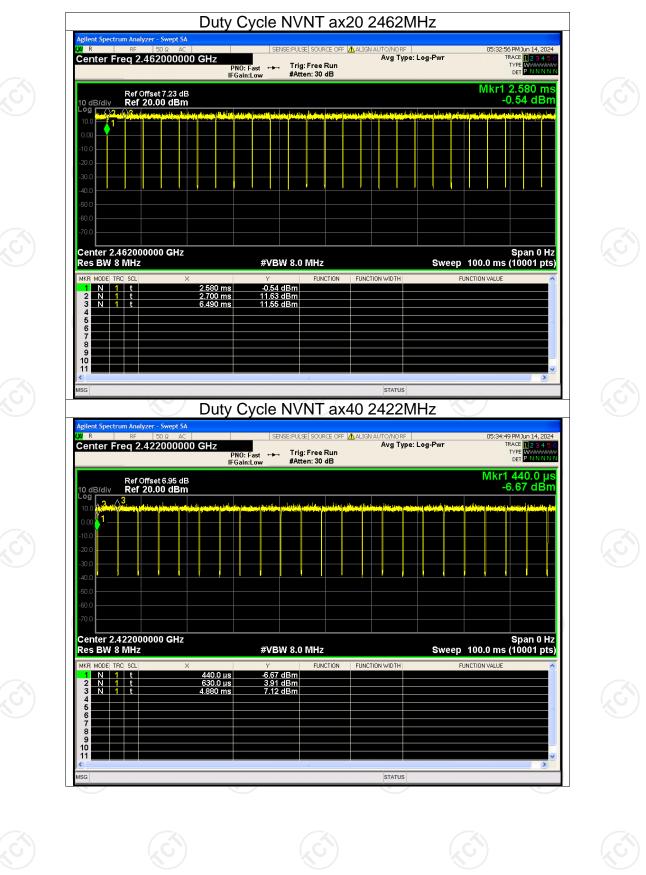
Duty Cycle NVNT n40 2437MHz

TCT通测检测 TCT通测检测



Report No.: TCT240603E009

Page 43 of 99



Report N	lo.: TC	T24060	3E009
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Maximum Conducted (Peak) Output Power									
Condition	Mode	Frequency (MHz)	Conducted Power (dBm)	Limit (dBm)	Verdict				
NVNT	b	2412	9.47	30	Pass				
NVNT	b	2437	8.45	30	Pass				
NVNT	b	2462	8.59	30	Pass				
NVNT	g	2412	7.23	30	Pass				
NVNT	g	2437	6.54	30	Pass				
NVNT	g	2462	8.24	30	Pass				
NVNT	n20	2412	8.65	30	Pass				
NVNT	n20	2437	9.28	30	Pass				
NVNT 🖉	n20	2462	9.31	30	Pass				
NVNT 🔍	n40	2422	8.34	30	Pass				
NVNT	n40	2437	9.33	30	Pass				
NVNT	n40	2452	9.23	30	Pass				
NVNT	ax20	2412	14.02	30	Pass				
<b>NVNT</b>	ax20	2437	15.75	30	Pass				
NVNT	ax20	2462	14.71	30	Pass				
NVNT	ax40	2422	13.91	30	Pass				
NVNT	ax40	2437	14.84	30	Pass				
NVNT 🔍	ax40	2452	14.73	30	Pass				

#### Maximum Conducted (Peak) Output Power

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Page 46 of 99

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

Report No.: T	CT240603E009
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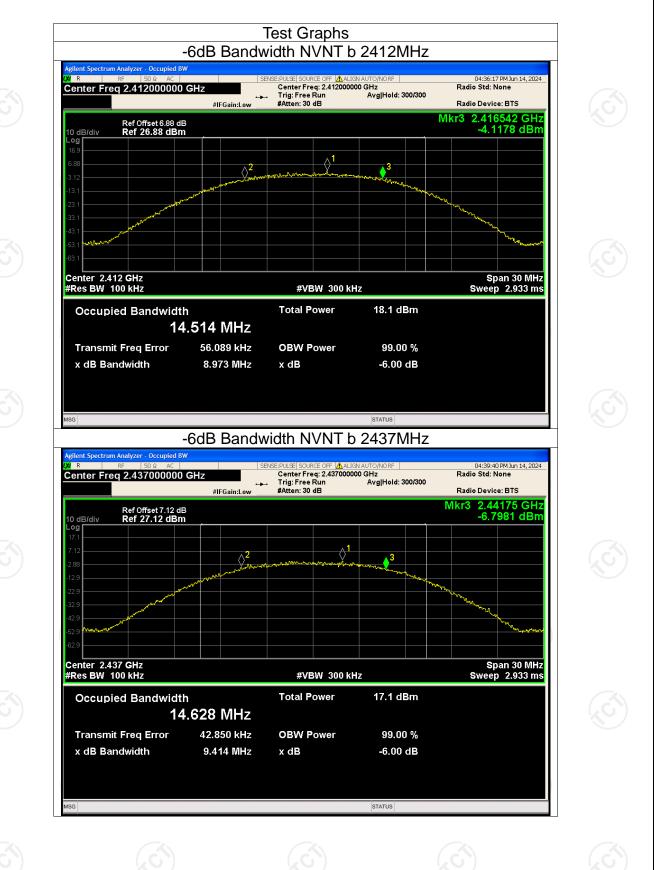
Condition	Mode	Frequency	-6 dB Bandwidth	Limit -6 dB	Verdict
	-	(MHz)	(MHz)	Bandwidth (MHz)	_
NVNT	b	2412	8.973	0.5	Pass
NVNT	b	2437	9.414	0.5	Pass
NVNT	b	2462	9.318	0.5	Pass
NVNT	g	2412	16.361	0.5	Pass
NVNT	g	2437	16.414	0.5	Pass
NVNT	g	2462	16.387	0.5	Pass
NVNT	n20	2412	17.534	0.5	Pass
NVNT	n20	2437	16.890	0.5	Pass
NVNT	n20	2462	16.269	0.5	Pass
NVNT	n40	2422	35.677	0.5	Pass
NVNT	n40	2437	36.041	0.5	Pass
NVNT	n40	2452	35.123	0.5	Pass
NVNT	ax20	2412	16.484	0.5	Pass
NVNT	ax20	2437	17.805	0.5	Pass
NVNT	ax20	2462	18.932	0.5	Pass
NVNT	ax40	2422	37.325	0.5	Pass
NVNT	ax40	2437	37.852	0.5	Pass
NVNT	ax40	2452	36.407	0.5	Pass

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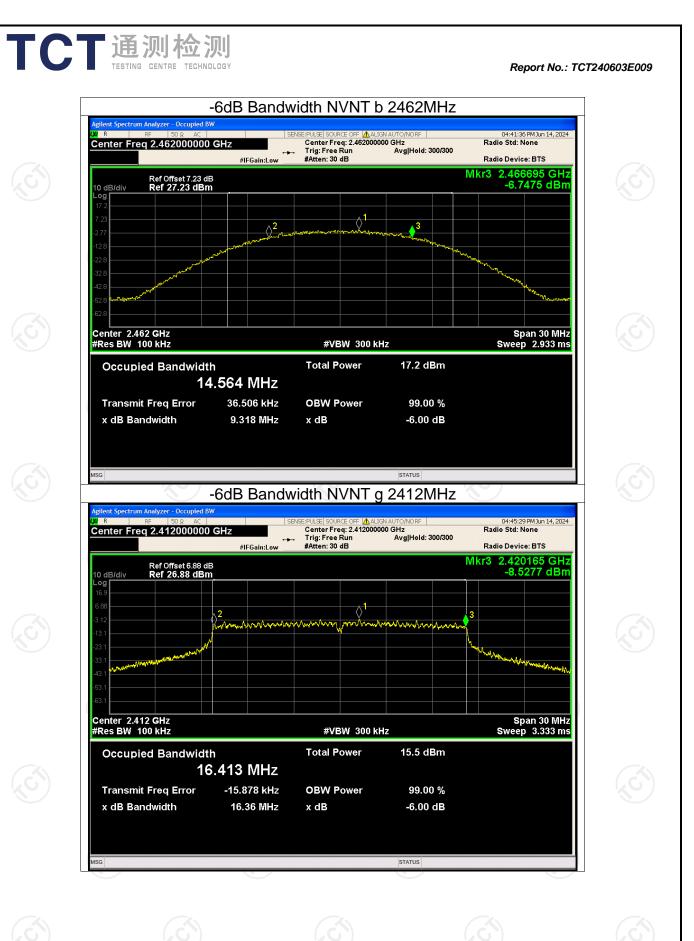
Page 47 of 99

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

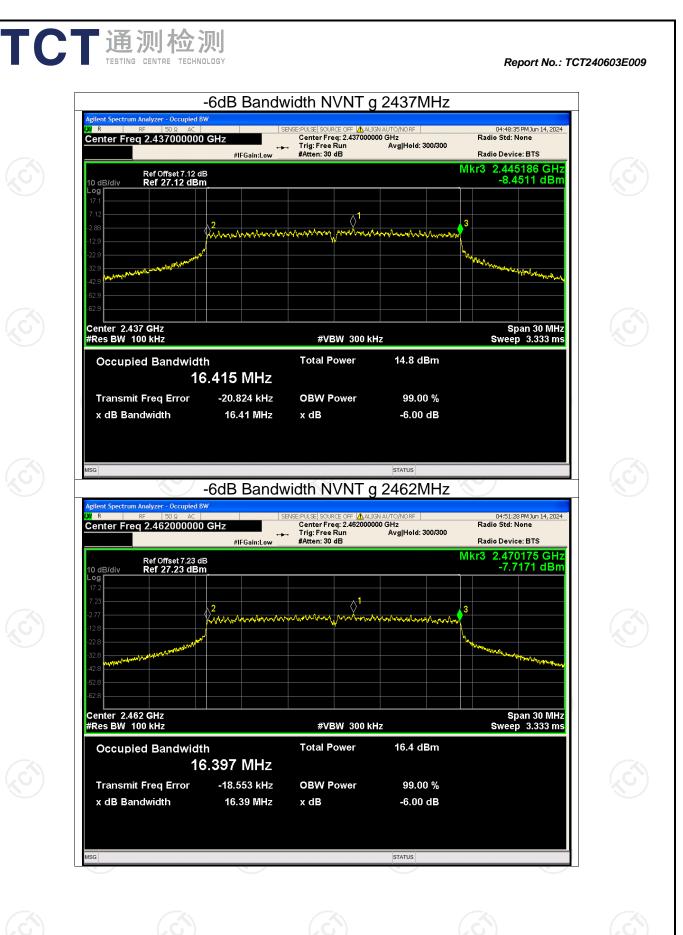
Report No.: TCT240603E009



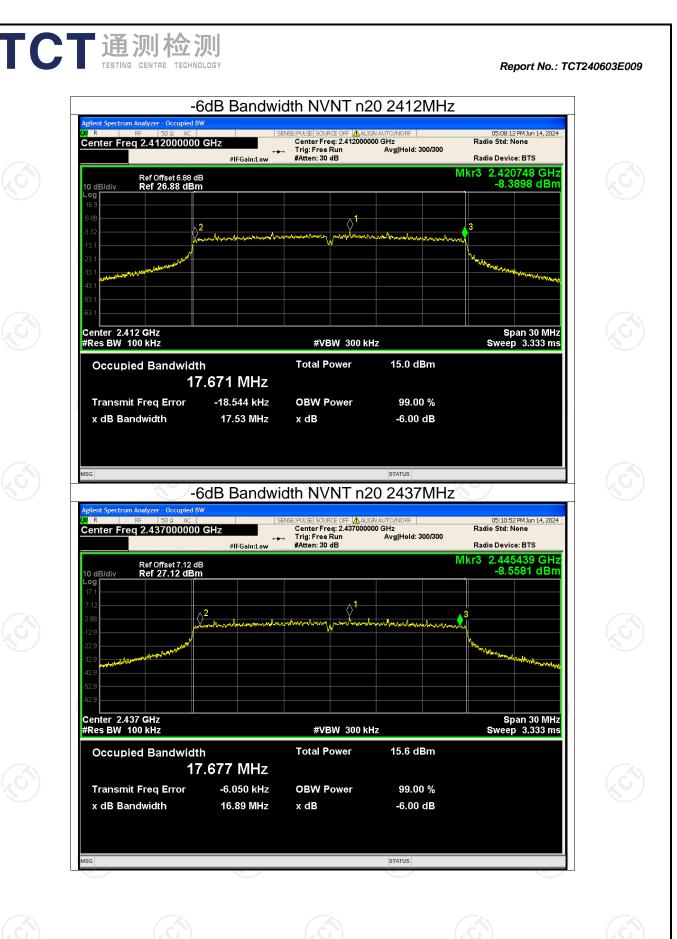
Page 48 of 99



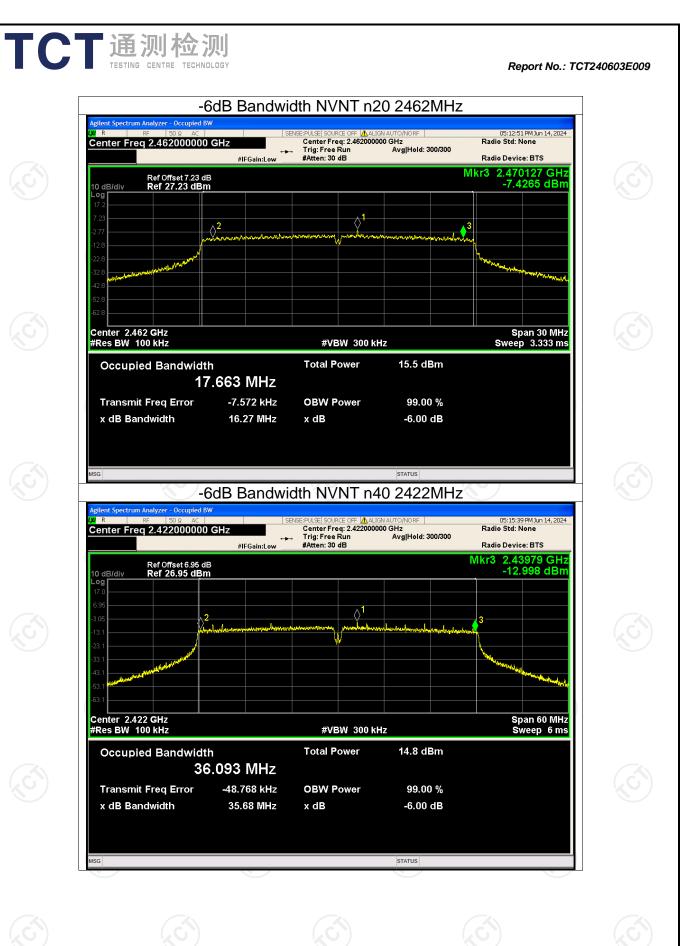
Page 49 of 99



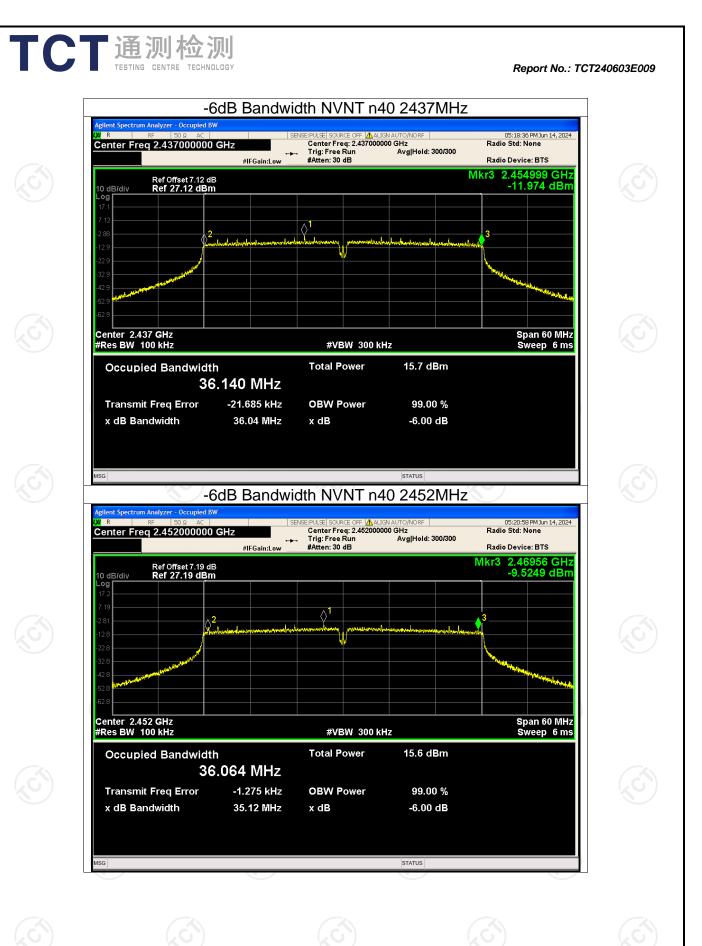
Page 50 of 99



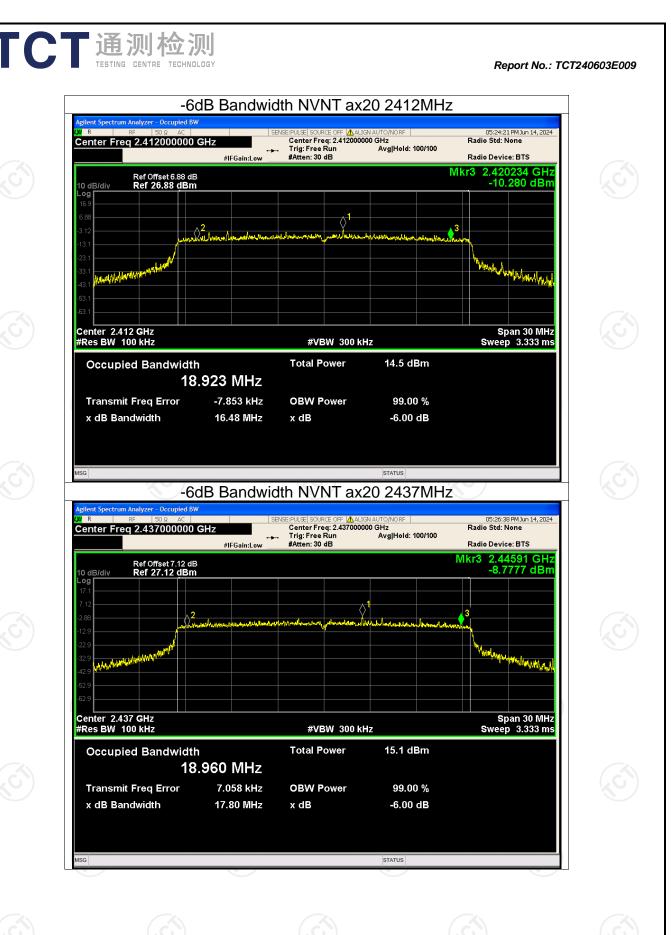
Page 51 of 99



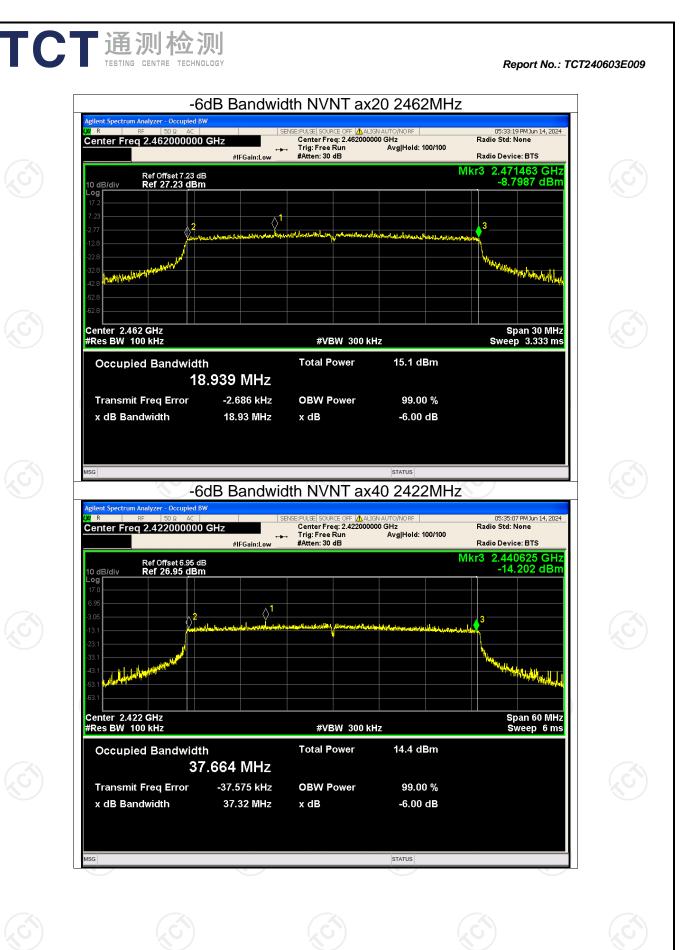
Page 52 of 99



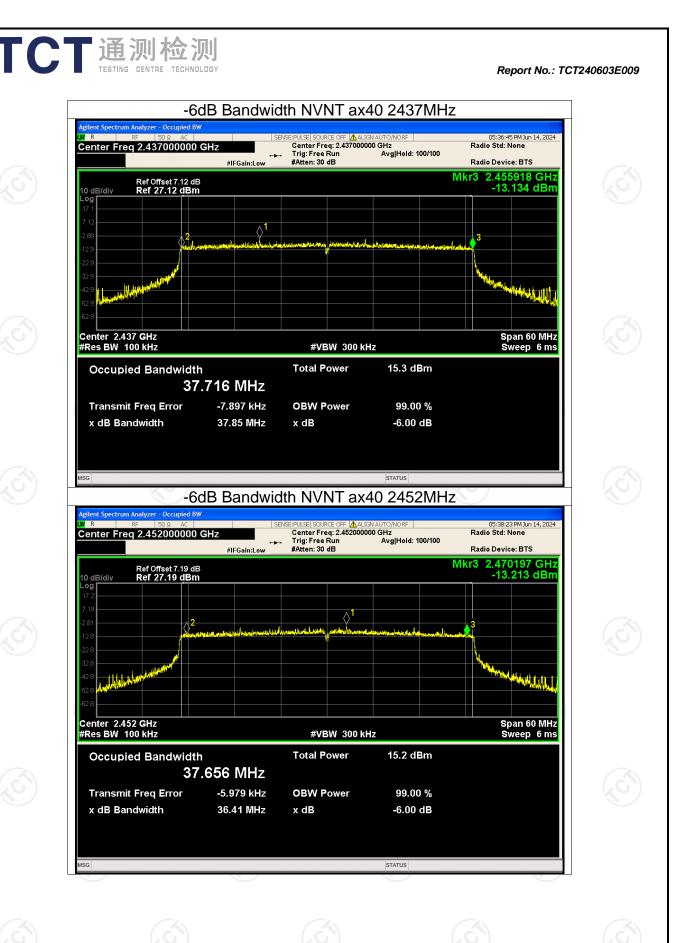
Page 53 of 99



Page 54 of 99



Page 55 of 99



Page 56 of 99

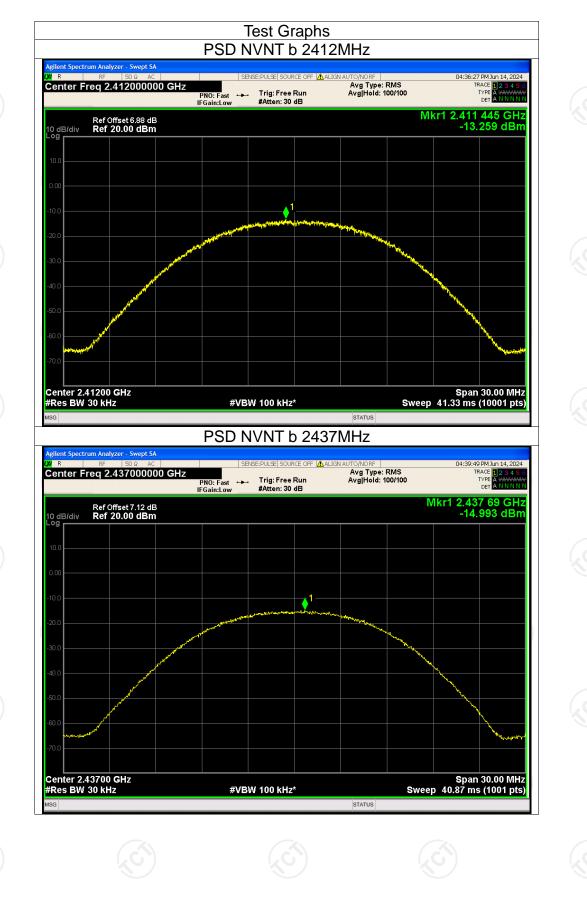
Report No.: TCT240603E009

Condition	Mode	Frequency (MHz)	Conducted PSD (dBm/30kHz)	Total PSD (dBm/3kHz)	Limit (dBm)	Verdict
NVNT	b	2412	-13.26	-23.26	8	Pass
NVNT	b	2437	-14.99	-24.99	8	Pass
NVNT	b	2462	-14.89	-24.89	8	Pass
NVNT	g	2412	-16.83	-26.83	8	Pass
NVNT	g	2437	-17.52	-27.52	8	Pass
NVNT	g	2462	-15.44	-25.44	8	Pass
NVNT	n20	2412	-15.19	-25.19	8	Pass
NVNT	n20	2437	-14.33	-24.33	8	Pass
NVNT	n20	2462	-15.16	-25.16	8	Pass
NVNT	n40	2422	-19.30	-29.3	8	Pass
NVNT	n40	2437	-18.05	-28.05	8	Pass
NVNT	n40	2452	-17.81	-27.81	8	Pass
NVNT	ax20	2412	-3.22	-13.22	8	Pass
NVNT	ax20	2437	-4.10	-14.10	8	Pass
NVNT	ax20	2462	-1.28	-11.28	8	Pass
NVNT	ax40	2422	-5.79	-15.79	8	Pass
NVNT	ax40	2437	-5.04	-15.04	8	Pass
NVNT	ax40	2452	-4.54	-14.54	8	Pass

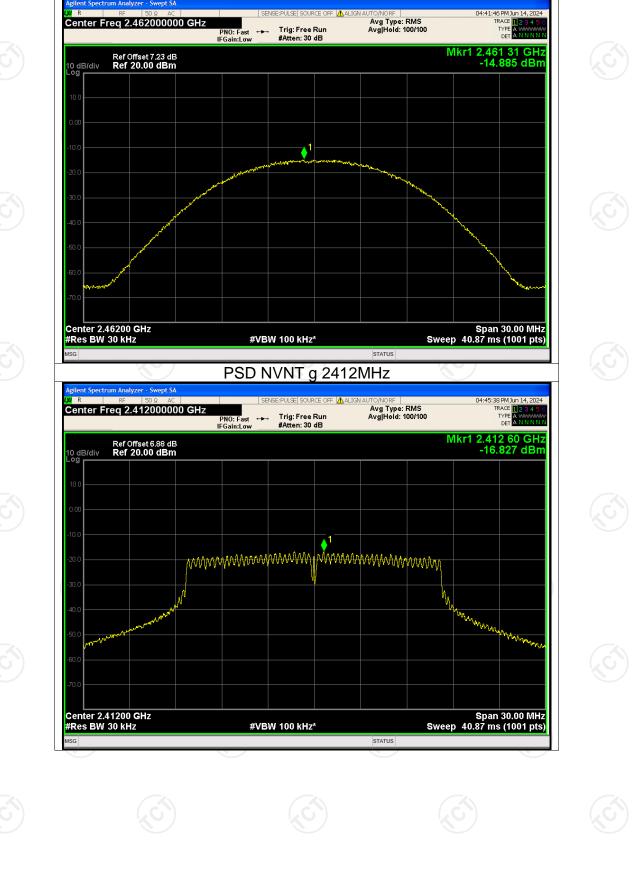
#### **Maximum Power Spectral Density Level**

Note: Total PSD (dBm/3kHz) = Total PSD (dBm/30kHz) +10log(3kHz/30kHz)

Report No.: TCT240603E009



Page 58 of 99



PSD NVNT b 2462MHz

#### Report No.: TCT240603E009

# TCT通测检测 TESTING CENTRE TECHNOLOGY

gilent Spectrum Analyzer - Swept SA

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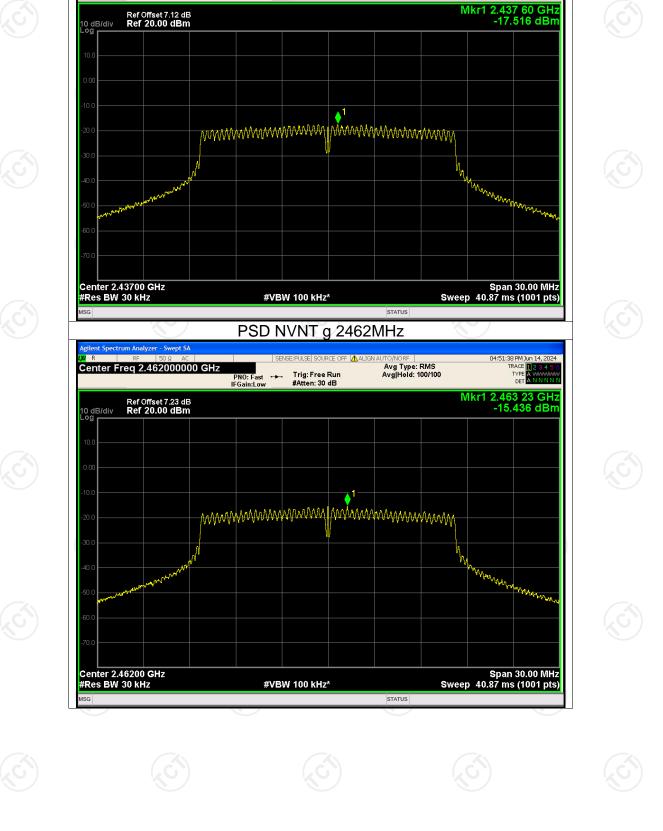








Page 59 of 99



PSD NVNT g 2437MHz

PNO: Fast +++ Trig: Free Run IFGain:Low #Atten: 30 dB

SENSE-PULSE SOURCE OFF A ALIGN AUTO/NORF Avg Type: RMS Trig: Free Run Avg[Hold: 100/100

TCT通测检测 TESTING CENTRE TECHNOLOGY

gilent Spectrum Analyzer - Swept SA

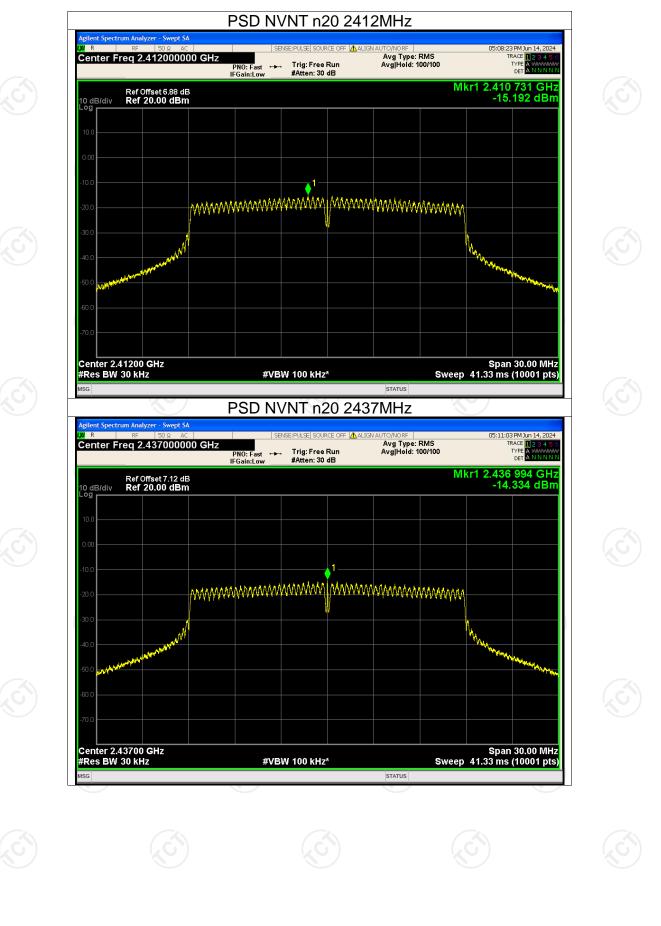
Center Freq 2.437000000 GHz

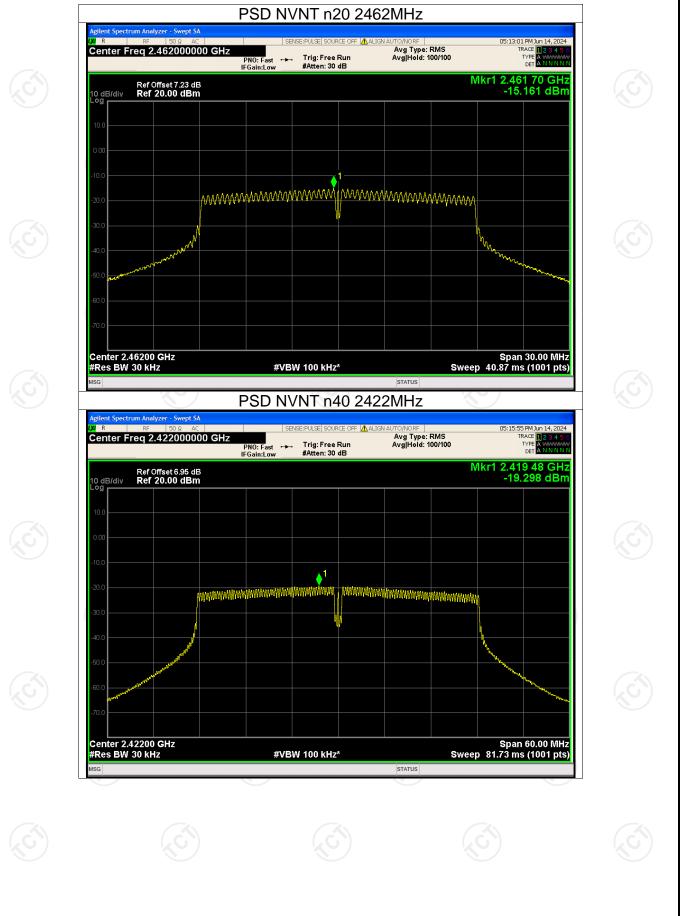
Report No.: TCT240603E009

04:48:43 PM Jun 14, 2024 TRACE 1 2 3 4 5

TYPE DET

Page 60 of 99





TCT通测检测 TESTING CENTRE TECHNOLOGY

### PSD NVNT n40 2437MHz gilent Spectrum Analyzer - Swept SA SENSE:PULSE SOURCE OFF ALIGN AUTO/NORF AVE SOURCE OFF ALIGN AUTO/NORF AVG Type: RMS 05:18:52 PM Jun 14, 2024 TRACE 1 2 3 4 5 6 TYPE A WWWW DET A N N N N P Center Freq 2.437000000 GHz PNO: Fast +++ Trig: Free Run IFGain:Low #Atten: 30 dB Mkr1 2.437 00 GHz -18.051 dBm Ref Offset 7.12 dB Ref 20.00 dBm NANANAN Center 2.43700 GHz #Res BW 30 kHz Span 60.00 MHz Sweep 81.73 ms (1001 pts) #VBW 100 kHz\*

R

10 dB/div Log

#### PSD NVNT n40 2452MHz

STATUS

R Center F	RF 50 Ω A req 2.4520000	00 GHz	PNO: Fast ++	Trig: Free I #Atten: 30	Run	Avg Type: I Avg Hold: 1		TF	PM Jun 14, 2 RACE 1234 TYPE A WWW DET A N N N
0 dB/div	Ref Offset 7.19 d Ref 20.00 dBr	В	Gameow				N	1kr1 2.45 -17.	2 00 G 814 dE
10.0									
D.00									
10.0					1				
20.0		ANN MANANA MANA	YNNY MANY MYN	ADUNA WAANUU ANU	NHINNANNANNAN	WWWWWWWW	www.www.www.	1	
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0.0	AND ROUND TO AND TO							Ween work	
50.0 <b></b>	water and the second							AN HAVE	March Marrie
70.0									
	45200 GHz							Span	60.00 N
Res BW	30 KHZ		#VB	W 100 kHz	<b>`</b>		Sweep	5 81.73 ms	י רטטיז <del>ו</del>

#### Mkr1 2.408 22 GHz -3.215 dBm Ref Offset 6.88 dB Ref 20.00 dBm 10 dB/div yerror monor and the many Marriaholyth ~ Vr maryllo Man Marina M NOMAN Center 2.41200 GHz #Res BW 100 kHz Span 30.00 MHz Sweep 2.933 ms (1001 pts) #VBW 300 kHz STATUS PSD NVNT ax20 2437MHz Swept S/ 46 PM Jun 14, 2024 TRACE 1 2 3 4 5 6 TYPE MWWWW DET P N N N N N SENSE: PULSE SOURCE OFF 🛕 ALIGN A Center Freq 2.437000000 GHz Avg Type: Log-Pwr Avg|Hold: 100/100 PNO: Fast +++ Trig: Free Run IFGain:Low #Atten: 30 dB Mkr1 2.439 55 GHz -4.104 dBm Ref Offset 7.12 dB Ref 20.00 dBm and the and public www.lawaham\_monallow . KuAn a have to

PSD NVNT ax20 2412MHz

PNO: Fast +++ Trig: Free Run IFGain:Low #Atten: 30 dB

SENSE:PULSE SOURCE OFF ALIGN AUTO/NORF Avg Type: Log-Pwr Trig: Free Run Avg|Hold: 100/100

10 dB/div Log h. 1. Mar Mar Mar Mart www. Center 2.43700 GHz #Res BW 100 kHz Span 30.00 MHz Sweep 2.933 ms (1001 pts) #VBW 300 kHz STATUS

#### Report No.: TCT240603E009

05:24:29 PM Jun 14, 2024 TRACE 1 2 3 4 5 6 TYPE MWWWW DET P N N N N

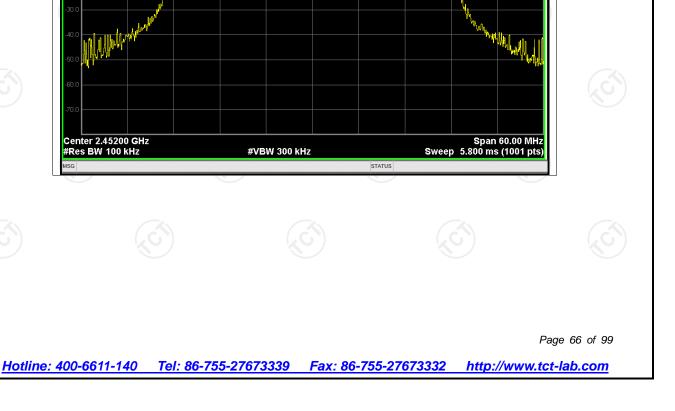
TCT通测检测 TESTING CENTRE TECHNOLOGY

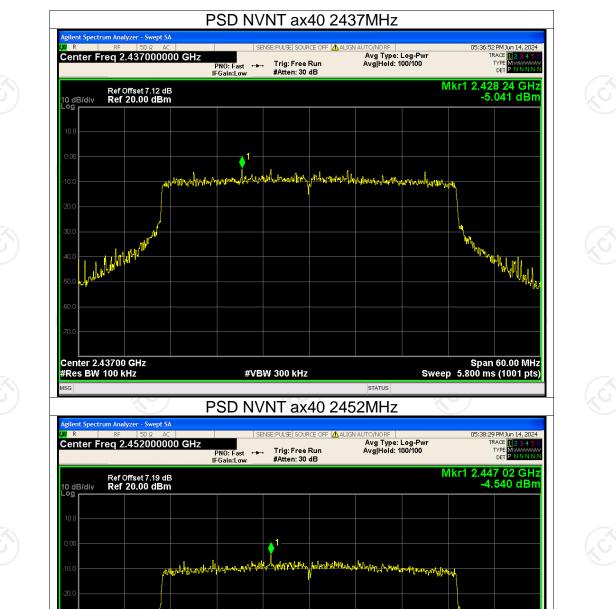
U F

#### gilent Spectrum Analyzer - Swept SA SENSE:PULSE SOURCE OFF ALIGN AUTO/NORF Avg Type: Log-Pwr Trig: Free Run Avg|Hold: 100/100 05:33:24 PM Jun 14, 2024 TRACE 1 2 3 4 5 6 TYPE MWWWWW DET P N N N N R Center Freq 2.462000000 GHz PNO: Fast +++ Trig: Free Run IFGain:Low #Atten: 30 dB Mkr1 2.463 26 GHz -1.279 dBm Ref Offset 7.23 dB Ref 20.00 dBm 10 dB/div ▲1 M. M. M. M. Mand M. Mary Mark Mary Marker how nto has Mon all month V. Wu MANAN White Mar 1 Center 2.46200 GHz #Res BW 100 kHz Span 30.00 MHz Sweep 2.933 ms (1001 pts) #VBW 300 kHz STATUS PSD NVNT ax40 2422MHz Swept S/ 05:35:13 PM Jun 14, 2024 TRACE 1 2 3 4 5 6 TYPE MWWWW DET P N N N N U F SENSE: PULSE SOURCE OFF ALIGN A Center Freq 2.422000000 GHz Avg Type: Log-Pwr Avg|Hold: 100/100 PNO: Fast +++ Trig: Free Run IFGain:Low #Atten: 30 dB Mkr1 2.424 46 GHz -5.785 dBm Ref Offset 6.95 dB Ref 20.00 dBm 10 dB/div Log **•**1 Wayphyran With the Wit Center 2.42200 GHz #Res BW 100 kHz Span 60.00 MHz Sweep 5.800 ms (1001 pts) #VBW 300 kHz STATUS

PSD NVNT ax20 2462MHz

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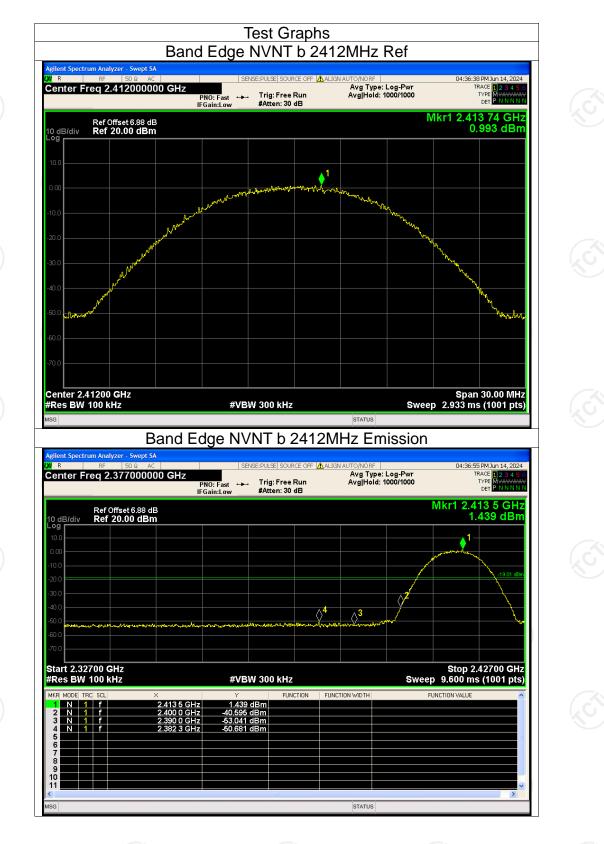
Report No.: TCT240603E009

Band Edge									
Condition	Mode	Frequency (MHz)	Max Value (dBc)	Limit (dBc)	Verdict				
NVNT	b	2412	-51.67	-20	Pass				
NVNT	b	2462	-51.08	-20	Pass				
NVNT	g	2412	-46.46	-20	Pass				
NVNT	g	2462	-46.29	-20	Pass				
NVNT	n20	2412	-47.10	-20	Pass				
NVNT	n20	2462	-46.51	-20	Pass				
NVNT 🖉	n40	2422	-47.75	-20	Pass				
NVNT	n40	2452	-43.74	-20	Pass				
NVNT	ax20	2412	-43.45	-20	Pass				
NVNT	ax20	2462	-42.73	-20	Pass				
	ax40	2422	-38.27	-20	Pass				
NVNT	ax40	2452	-37.46	-20	Pass				

Page 67 of 99

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

Report No.: TCT240603E009

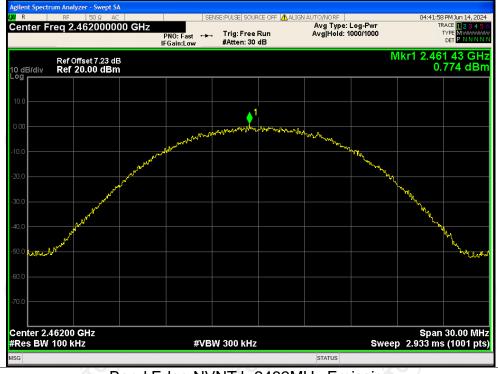


Page 68 of 99

Band Edge NVNT b 2462MHz Emission

SENSE: PULSE SOURCE OFF

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



Band Edge NVNT b 2462MHz Ref

U F

Center Freq 2.497000000 GHz

04:42:15 PM Jun 14, 2024 TRACE 1 2 3 4 5 1 TYPE MWWWW DET P N N N N

TYPE DET

Page 69 of 99



Band Edge NVNT g 2462MHz Ref gilent Spectrum Analyze SENSE:PULSE SOURCE OFF |▲ ALIGN AUTO/NORF Avg Type: Log-Pwr Trig: Free Run Avg|Hold: 1000/1000 04:51:51 PM Jun 14, 2024 TRACE 1 2 3 4 5 TYPE MWWWW DET P N N N N Center Freq 2.462000000 GHz PNO: Fast ---- Trig: Free Run IFGain:Low #Atten: 30 dB TYPE DET Mkr1 2.463 26 GHz -1.458 dBm Ref Offset 7.23 dB Ref 20.00 dBm 10 dB/div **♦**<sup>1</sup> mar when the water and the second marina MALA whynd fr Mm Center 2.46200 GHz #Res BW 100 kHz Span 30.00 MHz Sweep 2.933 ms (1001 pts) #VBW 300 kHz STATUS

U F

10 dB/di Log **[** 

Center Freq 2.497000000 GHz

Ref Offset 7.23 dB Ref 20.00 dBm

1

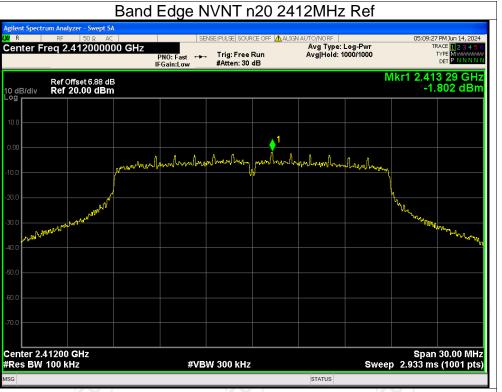
## Band Edge NVNT g 2462MHz Emission wept SA α

PNO: Fast +++ Trig: Free Run IFGain:Low #Atten: 30 dB Avg Type: Log-Pwr Avg|Hold: 1000/1000

#### Report No.: TCT240603E009

08 PM Jun 14, 2024 TRACE 1 2 3 4 5 TYPE MWWWW DET P N N N N

Mkr1 2.463 2 GHz -1.508 dBm



U F

10 dB/di Log

Center Freq 2.377000000 GHz

Ref Offset 6.88 dB Ref 20.00 dBm

#### Band Edge NVNT n20 2412MHz Emission

SENSE: PULSE SOURCE OFF 🛕 ALIGN A

PNO: Fast +++ Trig: Free Run IFGain:Low #Atten: 30 dB

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

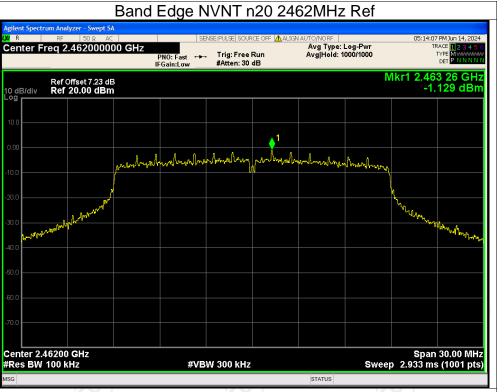
Report No.: TCT240603E009

44 PM Jun 14, 202 TRACE TYPE

TYPE DET

Mkr1 2.413 2 GHz -2.108 dBm

Ø



U F

10 dB/di Log **[** 

Center Freq 2.497000000 GHz

Ref Offset 7.23 dB Ref 20.00 dBm

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### Band Edge NVNT n20 2462MHz Emission

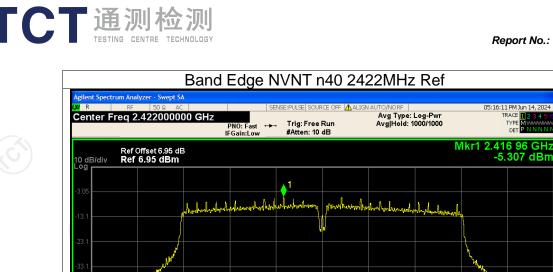
SENSE:PULSE | SOURCE OFF | 🗥 ALIGN A

PNO: Fast ---- Trig: Free Run IFGain:Low #Atten: 30 dB Avg Type: Log-Pwr Avg|Hold: 1000/1000 Report No.: TCT240603E009

05:14:24 PM Jun 14, 202 TRACE 1 2 3 4 5 TYPE MWWWW DET P N N N

Mkr1 2.460 7 GHz -1.603 dBm

ISG



Report No.: TCT240603E009

TYPE DET

Page 74 of 99

STATUS

gilent Spectr SENSE:PULSE SOURCE OFF ALIGN AUTO/NORF Avg Type: Log-Pwr Trig: Free Run Avg|Hold: 1000/1000 05:21:31 PM Jun 14, 2024 TRACE 1 2 3 4 5 TYPE Ministration R Center Freq 2.452000000 GHz PNO: Fast ---- Trig: Free Run IFGain:Low #Atten: 30 dB TYPE DET Mkr1 2.455 78 GHz -4.395 dBm Ref Offset 7.19 dB Ref 20.00 dBm 10 dB/div the advertise of the second sector المعد الملاسي 1 1 . L. Jackson WWWW Munday

Band Edge NVNT n40 2452MHz Ref

#### Report No.: TCT240603E009

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SENSE:PULSE SOURCE OFF ALIGN AUTO/NORF Avg Type: Log-Pwr Trig: Free Run Avg|Hold: 100/100

#### Center 2.41200 GHz #Res BW 100 kHz Span 30.00 MHz Sweep 2.933 ms (1001 pts) #VBW 300 kHz STATUS

Band Edge NVNT ax20 2412MHz Ref

PNO: Fast +++ Trig: Free Run IFGain:Low #Atten: 30 dB

# Band Edge NVNT ax20 2412MHz Emission

enter Fr	eq 2	.3770000		PNO: Fast + FGain:Low	►. Trig #Att	: Free Ru en: 30 dB	1	Avg Type Avg Hold:	:: Log-Pwi 100/100	r	т	RACE 1234 TYPE MWWW DET PNNN
0 dB/div og <b>r</b>		Offset 6.88 20.00 dB								N	/lkr1 2.4 -3.	14 5 GI 366 dB
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0.00											rentry toylow	Jule
20.0												
80.0												
10.0									A AND			
	Mar Market	moundary	hoursenser	والمعادمة المحادثة	An alyer at	www.	h-l-manna	Jana Maria				
0.0												
0.0 tart 2.32					/BW 300	) kHz			s	weep	Stop 2 9.600 m	.42700 G s (1001 p
Tart 2.32 Res BW			×	#\\ Y		) KHZ	N FUNC	CTION WIDTH	s		Stop 2 9.600 ms	.42700 G s (1001 p
Tart 2.32 Res BW			× 2.414 5 GHz 2.400 0 GHz	#\ -3.3			N FUNC	CTION WIDTH	S		9.600 m	.42700 G s (1001 p
tart 2.32 Res BW KR MODE TR 1 N 1 2 N 1 3 N 1	100 k c scl f		2.414 5 GHz 2.400 0 GHz 2.390 0 GHz	#\ 	66 dBm 91 dBm 87 dBm		N FUNC		S		9.600 m	.42700 G s (1001 p
tart 2.32 Res BW KR MODE TR 1 N 1 2 N 1 3 N 1 3 N 1 5 1	100 k c scl f		2.414 5 GHz 2.400 0 GHz	#\ 	66 dBm 91 dBm		N FUNC	CTION WIDTH	S		9.600 m	.42700 G s (1001 p
tart 2.32 Res BW KR MODE TR 1 N 1 2 N 1 3 N 1 4 N 1	100 k c scl f		2.414 5 GHz 2.400 0 GHz 2.390 0 GHz	#\ 	66 dBm 91 dBm 87 dBm		N FUNC		S		9.600 m	.42700 G s (1001 p
tart 2.32 Res BW KR MODE TR 1 N 1 2 N 1 3 N 1 4 N 1 5 6 7 7	100 k c scl f		2.414 5 GHz 2.400 0 GHz 2.390 0 GHz	#\ 	66 dBm 91 dBm 87 dBm		N FUNC	CTION WIDTH	S		9.600 m	.42700 G s (1001 p
tart 2.32 Res BW KR MODE TR N 12 2 N 1 3 N 1 4 N 1 5 6 7 8 9 9 0	100 k c scl f		2.414 5 GHz 2.400 0 GHz 2.390 0 GHz	#\ 	66 dBm 91 dBm 87 dBm		N FUNC	CTION WIDTH	s		9.600 m	.42700 G s (1001 p
2 N 1 3 N 1 4 N 1 5 6	100 k c scl f		2.414 5 GHz 2.400 0 GHz 2.390 0 GHz	#\ 	66 dBm 91 dBm 87 dBm		N FUNC	CTION WIDTH	S		9.600 m	.42700 G s (1001 p

Report No.: TCT240603E009

36 PM Jun 14, 2024 TRACE 1 2 3 4 5 TYPE MWWWWW DET P N N N N

TYPE DET Mkr1 2.414 52 GHz -2.832 dBm

Center Freq 2.412000000 GHz

Ref Offset 6.88 dB Ref 20.00 dBm

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WWW

gilent Spect

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10 dB/div Log





FUNCTION WIDTH

FUNCTION VALUE

FUNCTION

-3.042 dBm -50.959 dBm -53.724 dBm -45.131 dBm

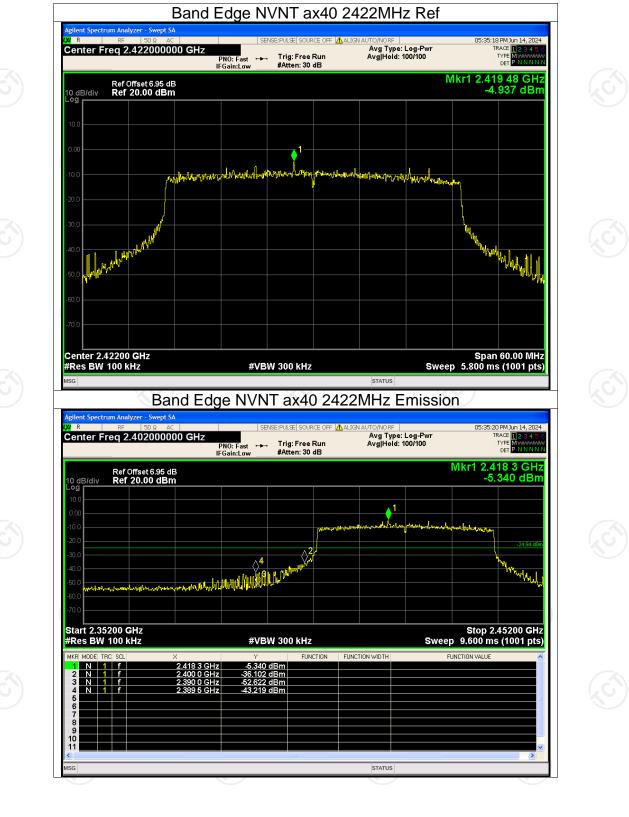
57 GHZ 35 GHZ 00 GHZ

2 484 0 GH

N 1 f N 1 f N 1 f

Report No.: TCT240603E009 Band Edge NVNT ax20 2462MHz Ref SENSE:PULSE SOURCE OFF ALIGN AUTO/NORF Avg Type: Log-Pwr --- Trig: Free Run Avg|Hold: 100/100 05:33:28 PM Jun 14, 2024 TRACE 1 2 3 4 5 1 TYPE MWWWW DET P N N N N Center Freq 2.462000000 GHz PNO: Fast +++ Trig: Free Run IFGain:Low #Atten: 30 dB TYPE DET Mkr1 2.458 25 GHz -2.403 dBm Ref Offset 7.23 dB Ref 20.00 dBm 10 dB/div who was all warmen how pour more thank Mr. Aland Bull bull bar and الروي الم 1 - Alak Murmundul 1 hours all worth Center 2.46200 GHz #Res BW 100 kHz Span 30.00 MHz Sweep 2.933 ms (1001 pts) #VBW 300 kHz STATUS Band Edge NVNT ax20 2462MHz Emission 31 PM Jun 14, 2024 TRACE 1 2 3 4 5 TYPE M M M M U F SENSE:PULSE SOURCE OFF 🚹 ALIGN A Center Freq 2.497000000 GHz Avg Type: Log-Pwr Avg|Hold: 100/100 PNO: Fast ---- Trig: Free Run IFGain:Low #Atten: 30 dB TYPE DET Mkr1 2.455 7 GHz -3.042 dBm Ref Offset 7.23 dB Ref 20.00 dBm 10 dB/di Log White Call of the second .⊘<sup>3</sup> Start 2.44700 GHz #Res BW 100 kHz Stop 2.54700 GHz Sweep 9.600 ms (1001 pts) #VBW 300 kHz

Page 77 of 99



Report No.: TCT240603E009

Page 78 of 99

Band Edge NVNT ax40 2452MHz Ref SENSE:PULSE SOURCE OFF ALIGN AUTO/NORF Avg Type: Log-Pwr --- Trig: Free Run Avg|Hold: 100/100 05:38:35 PM Jun 14, 2024 TRACE 1 2 3 4 5 1 TYPE MWWWW DET P N N N Center Freq 2.452000000 GHz PNO: Fast +++ Trig: Free Run IFGain:Low #Atten: 30 dB TYPE DET Mkr1 2.457 04 GHz -4.996 dBm Ref Offset 7.19 dB Ref 20.00 dBm 10 dB/div whenhan htyra Arnert valu مله بد اس March M han and a second Center 2.45200 GHz #Res BW 100 kHz Span 60.00 MHz Sweep 5.800 ms (1001 pts) #VBW 300 kHz STATUS

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10 dB/di Log

Center Freq 2.472000000 GHz

Ref Offset 7.19 dB Ref 20.00 dBm

<u> ▲1</u>

# Band Edge NVNT ax40 2452MHz Emission SENSE:PULSE | SOURCE OFF | 🛕 ALIGN /

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

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

#### Report No.: TCT240603E009

37 PM Jun 14, 202

TRACE TYPE

TYPE DET Mkr1 2.447 0 GHz -4.546 dBm

Condition	Mode	Frequency (MHz)	Max Value (dBc)	Limit (dBc)	Verdict					
NVNT	b	2412	-40.73	-20	Pass					
NVNT	b	2437	-39.35	-20	Pass					
NVNT	b	2462	-40.58	-20	Pass					
NVNT	g	2412	-37.01	-20	Pass					
NVNT	g	2437	-36.01	-20	Pass					
NVNT	g	2462	-48.29	-20	Pass					
NVNT 🖉	n20	2412	-37.34	-20	Pass					
NVNT	n20	2437	-37.99	-20	Pass					
NVNT	n20	2462	-47.92	-20	Pass					
NVNT	n40	2422	-44.16	-20	Pass					
NVNT	n40	2437	-46.73	-20	Pass					
NVNT	n40	2452	-45.31	-20	Pass					
NVNT	ax20	2412	-36.21	-20	Pass					
NVNT	ax20	2437	-35.15	-20	Pass					
NVNT	ax20	2462	-36.79	-20	Pass					
NVNT 🦳	ax40	2422	-34.43	-20	Pass					
NVNT	ax40	2437	-34.23	-20	Pass					
NVNT	ax40	2452	-35.07	-20	Pass					
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#### **Conducted RF Spurious Emission**





TCT通测检测 TESTING CENTRE TECHNOLOGY

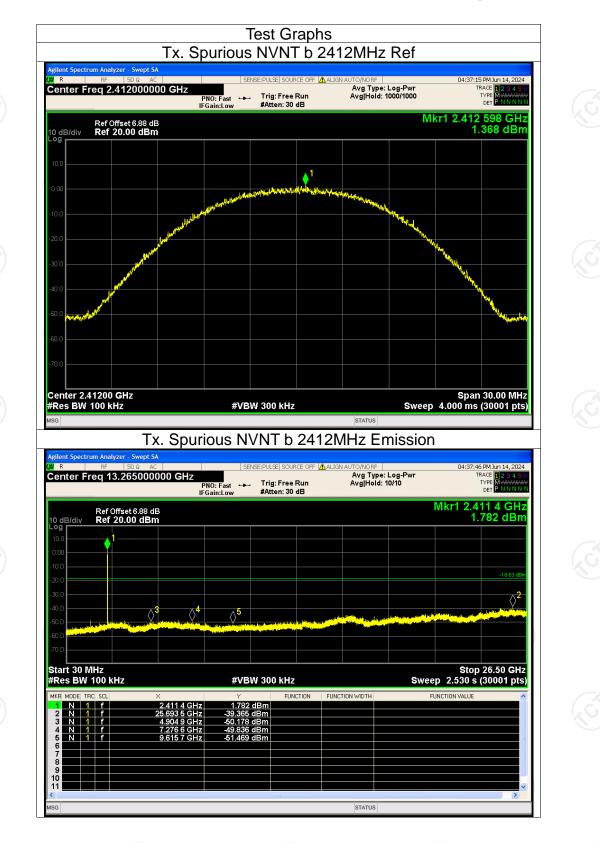






Page 80 of 99

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



Page 82 of 99

Page 83 of 99

Tx. Spurious NVNT g 2412MHz Ref gilent Spectr SENSE:PULSE SOURCE OFF ALIGN AUTO/NORF Avg Type: Log-Pwr Trig: Free Run Avg|Hold: 1000/1000 04:46:28 PM Jun 14, 2024 TRACE 1 2 3 4 5 1 TYPE MWWWW DET P N N N N Center Freq 2.412000000 GHz PNO: Fast +++ Trig: Free Run IFGain:Low #Atten: 30 dB Mkr1 2.413 248 GHz -2.349 dBm Ref Offset 6.88 dB Ref 20.00 dBm 10 dB/div ø mm mannonmanno mann ANN ANN ANN Market Center 2.41200 GHz #Res BW 100 kHz Span 30.00 MHz Sweep 4.000 ms (30001 pts) #VBW 300 kHz STATUS

# Tx. Spurious NVNT g 2412MHz Emission

Page 85 of 99

SENSE:PULSE SOURCE OFF ALIGN AUTO/NORF Avg Type: Log-Pwr Trig: Free Run Avg|Hold: 1000/1000 05:06:03 PM Jun 14, 2024 TRACE 1 2 3 4 5 1 TYPE MWWWW DET P N N N N Center Freq 2.462000000 GHz PNO: Fast +++ Trig: Free Run IFGain:Low #Atten: 20 dB Mkr1 2.463 257 GHz -1.745 dBm Ref Offset 7.23 dB Ref 17.23 dBm 10 dB/div V Manhowwwwwwwww Moderna

Tx. Spurious NVNT g 2462MHz Ref

Tx. Spurious NVNT n20 2412MHz Ref

PNO: Fast +++ Trig: Free Run IFGain:Low #Atten: 30 dB

SENSE:PULSE SOURCE OFF |▲ ALIGN AUTO/NORF Avg Type: Log-Pwr Trig: Free Run Avg|Hold: 1000/1000

gilent Spect

Center Freq 2.412000000 GHz

Report No.: TCT240603E009

05:08:44 PM Jun 14, 2024 TRACE 1 2 3 4 5 TYPE M DET P N N N N

Page 87 of 99

gilent Spect

10 dB/div

Center Freq 2.437000000 GHz

Ref Offset 7.12 dB Ref 20.00 dBm

. 0

Tx. Spurious NVNT n20 2437MHz Ref

PNO: Fast +++ Trig: Free Run IFGain:Low #Atten: 30 dB

Manufarabarabarahan

SENSE:PULSE| SOURCE OFF |▲ ALIGN AUTO/NORF | Avg Type: Log-Pwr -→ Trig: Free Run Avg|Hold: 1000/1000

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Report No.: TCT240603E009

05:11:24 PM Jun 14, 2024 TRACE 1 2 3 4 5 TYPE MWWWW DET P N N N N

TYPE DET

Mkr1 2.438 268 GHz -1.410 dBm

Page 88 of 99

Center Freq 2.462000000 GHz

10 dB/div

Ref Offset 7.23 dB Ref 17.23 dBm

Tx. Spurious NVNT n20 2462MHz Ref

PNO: Fast ---- Trig: Free Run IFGain:Low #Atten: 20 dB

SENSE:PULSE SOURCE OFF |▲ ALIGN AUTO/NORF Avg Type: Log-Pwr Trig: Free Run Avg|Hold: 1000/1000

**∮**<sup>1</sup>

Report No.: TCT240603E009

05:13:23 PM Jun 14, 2024 TRACE 1 2 3 4 5 TYPE MWWWW DET P N N N N

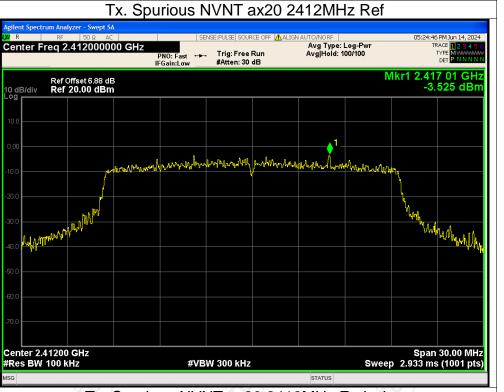
TYPE DET

Mkr1 2.463 266 GHz -1.397 dBm

Page 89 of 99

Page 90 of 99

Page 91 of 99



Tx. Spurious NVNT ax20 2412MHz Emission

Page 93 of 99

Tx. Spurious NVNT ax20 2437MHz Ref gilent Spect SENSE:PULSE SOURCE OFF ALIGN AUTO/NORF Avg Type: Log-Pwr Trig: Free Run Avg|Hold: 100/100 53 PM Jun 14, 2024 TRACE 12345 TYPE MWWWWW DET PNNNN Center Freq 2.437000000 GHz PNO: Fast +++ Trig: Free Run IFGain:Low #Atten: 30 dB TYPE DET Mkr1 2.441 98 GHz -2.933 dBm Ref Offset 7.12 dB Ref 20.00 dBm 10 dB/div monthere monthe Lander & Manular Mar Mar My Marken My whyth Word Center 2.43700 GHz #Res BW 100 kHz Span 30.00 MHz Sweep 2.933 ms (1001 pts) #VBW 300 kHz STATUS

U F

10 dB/di Log

Center Freq 13.265000000 GHz

Ref Offset 7.12 dB Ref 20.00 dBm

# Tx. Spurious NVNT ax20 2437MHz Emission

PNO: Fast 🔸 Trig: Free Run IFGain:Low #Atten: 30 dB

SENSE:PULSE | SOURCE OFF [ 🔥 ALIGN A

Avg Type: Log-Pwr Avg|Hold: 10/10

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#### Report No.: TCT240603E009

23 PM Jun 14, 202 TRACE 1 2 3 4 5 TYPE MMAAAAA

Mkr1 2.439 GHz -2.834 dBm

SENSE: PULSE SOURCE OFF Center Freq 13.265000000 GHz Avg Type: Log-Pwr Avg|Hold: 10/10 PNO: Fast 🔸 Trig: Free Run IFGain:Low #Atten: 30 dB

Tx. Spurious NVNT ax20 2462MHz Emission

STATUS

#VBW 300 kHz

Mkr1 2.456 96 GHz -2.880 dBm Ref Offset 7.23 dB Ref 20.00 dBm 10 dB/div Mr.m All and marked both burnstoner was mandered out Yn MM willing of the last NWWWW Center 2.46200 GHz #Res BW 100 kHz Span 30.00 MHz Sweep 2.933 ms (1001 pts)

Tx. Spurious NVNT ax20 2462MHz Ref SENSE:PULSE SOURCE OFF ALIGN AUTO/NORF Avg Type: Log-Pwr --- Trig: Free Run Avg|Hold: 100/100 Center Freq 2.462000000 GHz PNO: Fast +++ Trig: Free Run IFGain:Low #Atten: 30 dB

U F

Ref Offset 7.23 dB Ref 20.00 dBm

Report No.: TCT240603E009

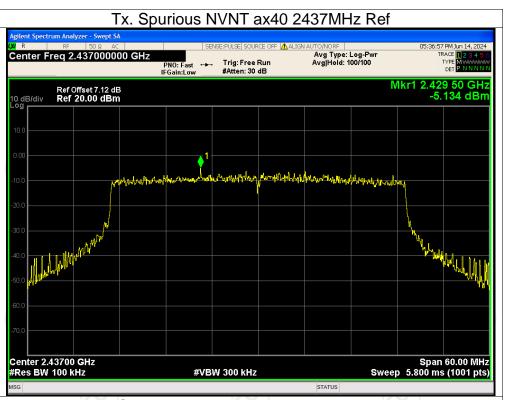
05:33:36 PM Jun 14, 2024 TRACE 1 2 3 4 5 TYPE M DET P N N N N

106 PM Jun 14, 2024 TRACE 1 2 3 4 5 TYPE M WWWWW DET P N N N N

TYPE DET Mkr1 2.465 GHz -4.836 dBm

Page 95 of 99

Page 96 of 99



U F

10 dB/di Log

Center Freq 13.265000000 GHz

Ref Offset 7.12 dB Ref 20.00 dBm

## Tx. Spurious NVNT ax40 2437MHz Emission

SENSE: PULSE SOURCE OFF

PNO: Fast +++ Trig: Free Run IFGain:Low #Atten: 30 dB

Avg Type: Log-Pwr Avg|Hold: 10/10

Report No.: TCT240603E009

26 PM Jun 14, 2024 TRACE **1 2 3 4 5** TYPE MWWWW DET P N<u>N N N</u>

GHz

TYPE DET Mkr1 2.439 GHz -7.397 dBm

