TCT通测检测
TESTING CENTRE TECHNOLOGY

TESTING CENTRE TE	TEST REPOR	T					
FCC ID:	2AUARSCANSF						
Test Report No::	TCT220418E903						
Date of issue::	Apr. 29, 2022	Apr. 29, 2022					
Testing laboratory:	SHENZHEN TONGCE TESTING	S LAB					
Testing location/ address:	TCT Testing Industrial Park Fuqi Street, Bao'an District Shenzhen Republic of China						
Applicant's name::	THINKCAR TECH CO., LTD.						
Address::	2606, building 4, phase II, Tianar Bantian, Longgang District, Sher	.	ty,				
Manufacturer's name:	THINKCAR TECH CO., LTD.	(3)					
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 C63.10:2013						
Product Name::	MUCAR CR, MUCAR CR4, MUC	CAR CDE 900					
Trade Mark:	MUCAR	(C ¹)					
Model/Type reference:	CR4, CR1, CR2, CR3, CR5, CR6 CDE90	6, CR7, CR8, CR9, CR10,					
Rating(s)::	Rechargeable Li-ion battery DC	3.7V	C ()				
Date of receipt of test item:	Apr. 18, 2022						
Date (s) of performance of test:	Apr. 18, 2022 - Apr. 29, 2022						
Tested by (+signature):	RIeo LIU						
Check by (+signature):	Beryl ZHAO BoyCongrey TCT						
Approved by (+signature):	Tomsin						
Remark::	This test report was based on TCT211020E060, Change product name, product model No., trade mark, battery, appearance shape and color, add buttons on the front and added a power switch.						

General disclaimer:

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1. General Product Information

1.1. EUT description

Product Name:	MUCAR CR, MUCAR CR4, MUCAR CDE 900		
Model/Type reference:	CR4		
Sample Number:	TCT211020E048-0101		
Operation Frequency:	2412MHz~2462MHz (802.11b/802.11g/802.11n(HT20)) 2422MHz~2452MHz (802.11n(HT40))		
Channel Separation:	5MHz		
Number of Channel:	11 for 802.11b/802.11g/802.11n(HT20) 7 for 802.11n(HT40)		
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:	Internal Antenna		
Antenna Gain:	1dBi		
Rating(s):	Rechargeable Li-ion battery DC 3.7V		

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

1.2. Model(s) list

No.	Model No.	Tested with
1	CR4	
Other models	CR1, CR2, CR3, CR5, CR6, CR7, CR8, CR9, CR10, CDE90	

Note: CR4 is tested model, other models are derivative models. The models are identical in circuit and PCB layout, different on the model names. So the test data of CR4 can represent the remaining models.

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1.3. Operation Frequency

For 802.11b/g/n(HT20)

	<u> </u>						
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)

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
		4	2427MHz	7	2442MHz		
(0)	(5	2432MHz	8	2447MHz	O`)	120
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)

3-1-1	-,
Channel	Frequency
The lowest channel	2412MHz
The middle channel	2437MHz
The Highest channel	2462MHz

802.11n (HT40)

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 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.
- 5. Conducted Output Power, 6dB Emission Bandwidth and Power Spectral Density data reference report No. TCT211020E060.





3. General Information

3.1. Test environment and mode

Operating Environment:				
Condition	Conducted Emission	Radiated Emission		
Temperature:	27.5 °C	24.3 °C		
Humidity:	56 % RH	54 % RH		
Atmospheric Pressure:	1010 mbar	1010 mbar		
Test Software:				
Software Information:	Engineering mode			
Power Level:	Default			
Test Mode:				
Conducted Emission: Charging				
Engineering mode: Keep the EUT in continuous transmitting by select channel and modulations with Fully-charged battery				

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

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(H20)	6.5Mbps
802.11n(H40)	13.5Mbps



3.2. Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Equipment	Model No.	Serial No.	FCC ID	Trade Name
Adapter	JD-050200	2012010907576735	/	JD

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-1

SHENZHEN TONGCE TESTING LAB

CAB identifier: CN0031

The testing lab has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing.

4.2. Location

SHENZHEN TONGCE TESTING LAB

Address: TCT Testing Industrial Park Fuqiao 5th Industrial Zone, Fuhai Street, 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:

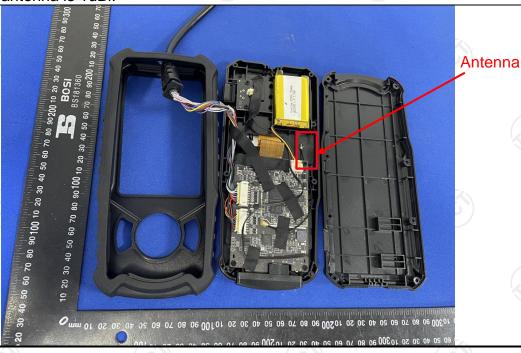
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit 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:

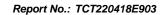
(i) Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional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

E.U.T Antenna:

The WIFI antenna is Internal antenna which permanently attached, and the best case gain of the antenna is 1dBi.



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5.2. Conducted Emission

5.2.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.207					
Test Method:	ANSI C63.10:2013					
Frequency Range:	150 kHz to 30 MHz					
Receiver setup:	RBW=9 kHz, VBW=30	kHz, Sweep time	=auto			
	Frequency range	Limit (dBuV)			
	(MHz)	Quasi-peak	Average			
Limits:	0.15-0.5	66 to 56*	56 to 46*			
	0.5-5	56	46			
	5-30	- 60	50			
	Reference	Plane				
Test Setup:	AC power E.U.T AC power Filter AC power					
Test Mode:	Charging + transmitting with modulation					
Test Procedure:	 The E.U.T is connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs). Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10: 2013 on conducted measurement. 					
Test Result:	PASS	(6)	100			



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	Jul. 07, 2022	
Line Impedance Stabilisation Newtork(LISN)	Schwarzbeck	NSLK 8126	8126453	Feb. 24, 2023	
Line-5	TCT	CE-05	N/A	Jul. 07, 2022	
EMI Test Software	Shurple Technology	EZ-EMC	N/A	N/A	

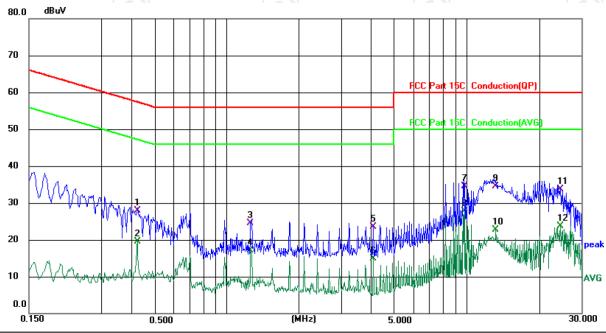




5.2.3. Test data

Please refer to following diagram for individual

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



Site 844 Shielding Room

Phase: L1

Temperature: 27.5 (°C)

Humidity: 56 %

Report No.: TCT220418E903

Limit: FCC Part 15C Conduction(QP)

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

No. Mk	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
	MHz	dBu∨	dB	dBu∀	dBu∀	dB	Detector	Comment
1	0.4218	18.64	9.22	27.86	57.41	-29.55	QP	
2	0.4218	10.30	9.22	19.52	47.41	-27.89	AVG	
3	1.2620	15.10	9.35	24.45	56.00	-31.55	QP	
4	1.2620	7.69	9.35	17.04	46.00	-28.96	AVG	
5	4.0819	13.99	9.55	23.54	56.00	-32.46	QP	
6	4.0819	5.29	9.55	14.84	46.00	-31.16	AVG	
7	9.8460	24.90	9.61	34.51	60.00	-25.49	QP	
8 *	9.8460	18.00	9.61	27.61	50.00	-22.39	AVG	
9	13.2179	24.95	9.64	34.59	60.00	-25.41	QP	
10	13.2179	13.13	9.64	22.77	50.00	-27.23	AVG	
11	24.6020	23.94	9.82	33.76	60.00	-26.24	QP	
12	24.6020	13.93	9.82	23.75	50.00	-26.25	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)

 $Limit (dB\mu V) = Limit stated in standard$

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

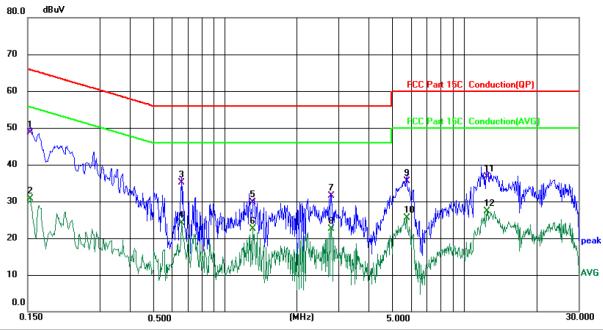
Q.P. =Quasi-Peak

AVG =average

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



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



Site 844 Shielding Room Phase: N Temperature: 27.5 (°C) Humidity: 56 %

Limit: FCC Part 15C Conduction(QP)

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

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBu∀	dB	dBu∨	dBu∀	dB	Detector	Comment
1	*	0.1539	39.09	9.60	48.69	65.79	-17.10	QP	
2		0.1539	21.01	9.60	30.61	55.79	-25.18	AVG	
3		0.6580	25.91	9.21	35.12	56.00	-20.88	QP	
4		0.6580	14.86	9.21	24.07	46.00	-21.93	AVG	
5		1.3140	20.42	9.33	29.75	56.00	-26.25	QP	
6		1.3140	13.13	9.33	22.46	46.00	-23.54	AVG	
7		2.7820	22.01	9.41	31.42	56.00	-24.58	QP	
8		2.7820	13.09	9.41	22.50	46.00	-23.50	AVG	
9		5.7580	25.98	9.50	35.48	60.00	-24.52	QP	
10		5.7580	16.08	9.50	25.58	50.00	-24.42	AVG	
11		12.4938	27.11	9.64	36.75	60.00	-23.25	QP	
12		12.4938	17.69	9.64	27.33	50.00	-22.67	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 (dBµV) = 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.



5.3. Maximum Conducted (Average) Output Power

5.3.1. Test Specification

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

5.3.2. Test Instruments

RF Test Room					
Equipment	Manufacturer	Model	Serial Number	Calibration Due	
Spectrum Analyzer	Agilent	N9020A	MY49100619	Jul. 18, 2022	
RF Cable (9KHz-26.5GHz)	тст	RE-06	N/A	Jul. 18, 2022	
Antenna Connector	TCT	RFC-01	N/A	Jul. 18, 2022	

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5.4. Emission Bandwidth

5.4.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.2	47 (a)(2)			
Test Method:	KDB 558074 D01 v05r02				
Limit:	>500kHz				
Test Setup:	Spectrum Analyzer	EUT			
Test Mode:	Transmitting mode with modulation				
Test Procedure:	resolution bandwidth (RI Video bandwidth (VBW)	sly. with the spectrum analyzer's BW) = 100 kHz. Set the = 300 kHz. In order to make ent. The 6dB bandwidth must			
Test Result:	PASS				

5.4.2. Test Instruments

RF Test Room						
Equipment	Manufacturer	Model	Serial Number	Calibration Due		
Spectrum Analyzer	Agilent	N9020A	MY49100619	Jul. 18, 2022		
RF Cable (9KHz-26.5GHz)	ТСТ	RE-06	N/A	Jul. 18, 2022		
Antenna Connector	тст	RFC-01	N/A	Jul. 18, 2022		

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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 average power spectral density shall not be greater 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:	 The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. Set to the maximum power setting and enable the EUT transmit continuously. 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. Detector = RMS, Sweep time = auto couple. Employ trace averaging (RMS) mode over a minimum of 100 traces. Use the peak marker function to determine the maximum power level. Measure and record the results in the test report.
Test Result:	PASS

5.5.2. Test Instruments

RF Test Room				
Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	N9020A	MY49100619	Jul. 18, 2022
RF Cable (9KHz-26.5GHz)	TCT	RE-06	N/A	Jul. 18, 2022
Antenna Connector	TCT	RFC-01	N/A	Jul. 18, 2022



5.6. Conducted Band Edge and Spurious Emission Measurement

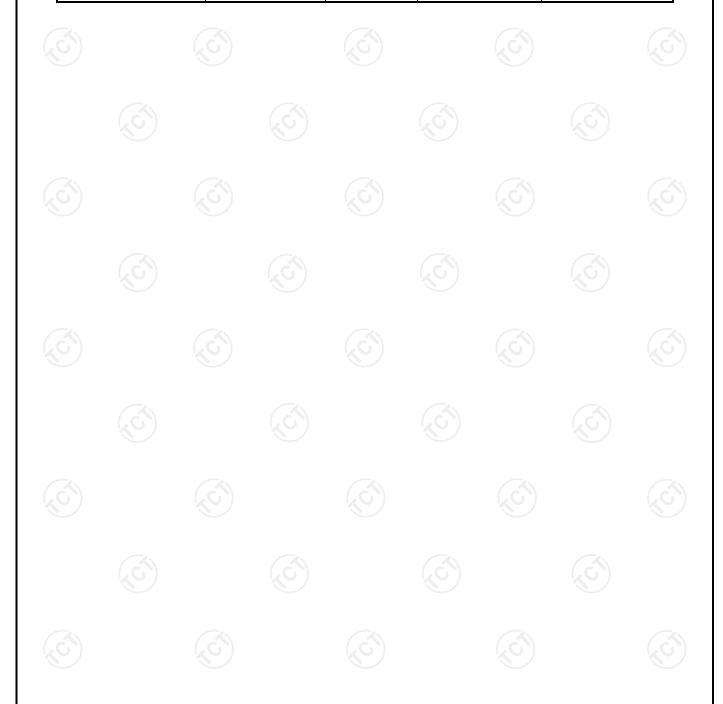
5.6.1. Test Specification

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:	
Test Mode:	Transmitting mode with modulation
Test Procedure:	 The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. Set to the maximum power setting and enable the EUT transmit continuously. Set RBW = 100 kHz, VBW=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). 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



5.6.2. Test Instruments

	RF Test Room											
Equipment Manufacturer Model Serial Number Calibration De												
Spectrum Analyzer	Agilent	N9020A	MY49100619	Jul. 18, 2022								
RF Cable (9KHz-26.5GHz)	тст	RE-06	N/A	Jul. 18, 2022								
Antenna Connector	TCT	RFC-01	N/A	Jul. 18, 2022								

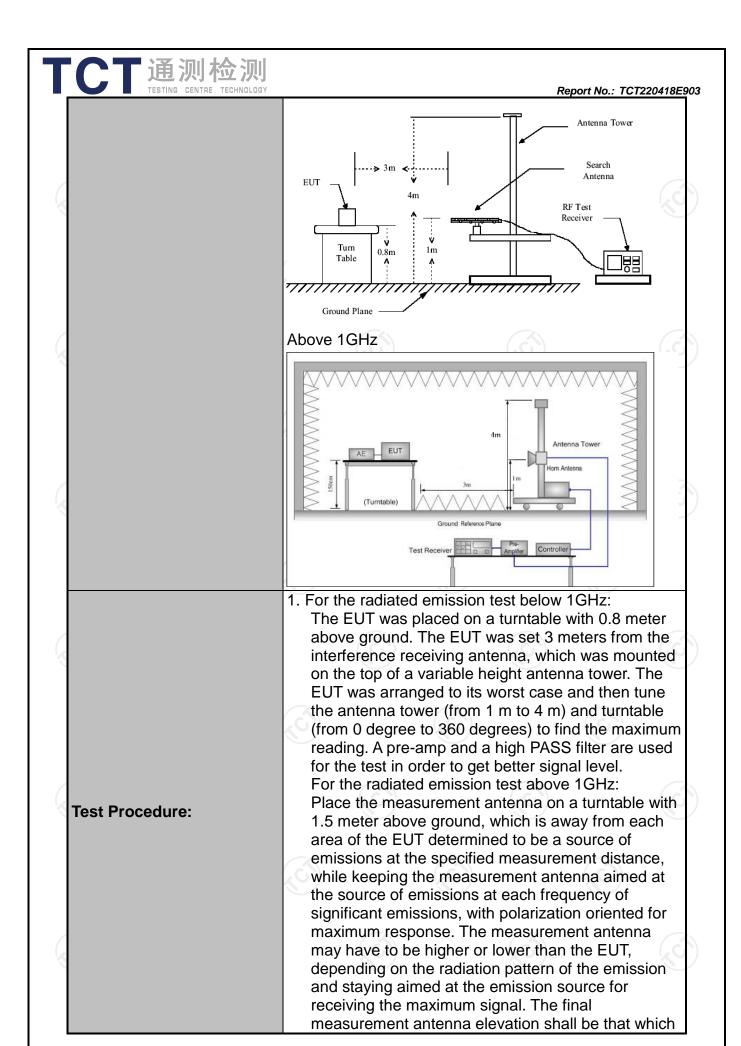




5.7. Radiated Spurious Emission Measurement

5.7.1. Test Specification

Test Requirement:	FCC Part15	C Section	15.209	(0)		ζć
Test Method:	ANSI C63.10	0: 2013				
Frequency Range:	9 kHz to 25 (GHz				
Measurement Distance:	3 m		(0)		(60	
Antenna Polarization:	Horizontal &	Vertical				
Operation mode:	Transmitting	mode wit	h modulat	ion		C.
	Frequency 9kHz- 150kHz 150kHz-	Detector Quasi-peal Quasi-peal		VBW 1kHz 30kHz	Quas	Remark si-peak Value si-peak Value
Receiver Setup:	30MHz 30MHz-1GHz Above 1GHz	Quasi-peak Peak Peak		300KHz 3MHz 10Hz	Quas	si-peak Value eak Value erage Value
Limit:	Frequent 0.009-0.4 0.490-1.7 1.705-3 30-88 88-216 216-96 Above 9	490 705 30 6 60 Fiel (micro	Field Str. (microvolts) 2400/F(24000/F(30 100 150 200 500 d Strength ovolts/meter) 500 5000	ength //meter) KHz) (KHz)	Me Dista	asurement nce (meters) 300 30 30 3 3 3 3 3 Detector Average Peak
Test setup:	For radiated	Turn table	s below 30	Pre -	Compu	iter
	30MHz to 10	SHz	((c



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	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. 3. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level 4. 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. 5. Use the following spectrum analyzer settings: (1) Span shall wide enough to fully capture the
	 emission being measured; (2) Set RBW=120 kHz for f < 1 GHz; VBW ≥ RBW; Sweep = auto; Detector function = peak; Trace = max hold; (3) Set RBW = 1 MHz, VBW= 3MHz for f >1 GHz for peak measurement. For average measurement: VBW = 10 Hz, when duty cycle is no less than 98 percent. 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.
Test results:	PASS





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	Jul. 07, 2022
Spectrum Analyzer	R&S	FSQ40	200061	Jul. 07, 2022
Pre-amplifier	SKET	LNPA_0118G- 45	SK2021012 102	Feb. 24, 2023
Pre-amplifier	SKET	LNPA_1840G- 50	SK2021092 03500	Feb. 24, 2023
Pre-amplifier	HP	8447D	2727A05017	Jul. 07, 2022
Loop antenna	ZHINAN	ZN30900A	12024	Sep. 05, 2022
Broadband Antenna	Schwarzbeck	VULB9163	340	Sep. 04, 2022
Horn Antenna	Schwarzbeck	BBHA 9120D	631	Sep. 04, 2022
Horn Antenna	Schwarzbeck	BBHA 9170	00956	Apr. 10, 2023
Antenna Mast	Keleto	RE-AM	N/A	N/A
Coaxial cable	SKET	RC_DC18G-N	N/A	Feb. 24, 2023
Coaxial cable	SKET	RC-DC18G-N	N/A	Feb. 24, 2023
Coaxial cable	SKET	RC-DC40G-N	N/A	Jul. 07, 2022
EMI Test Software	Shurple Technology	EZ-EMC	N/A	N/A

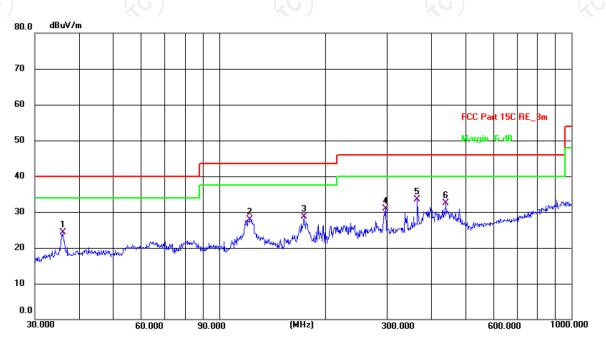


5.7.3. Test Data

Please refer to following diagram for individual

Below 1GHz

Horizontal:



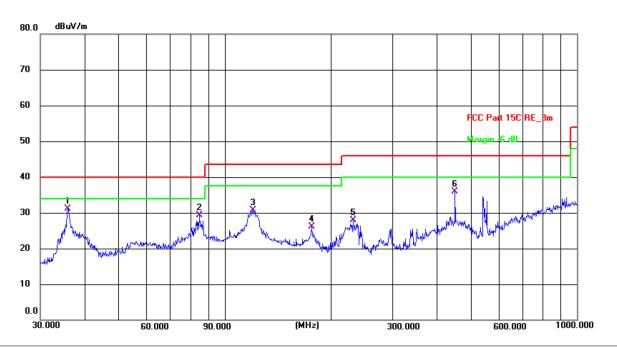
Site #2 3m Anechoic Chamber Polarization: *Horizontal* Temperature: 24.3(C) Humidity: 54 % Limit: FCC Part 15C RE_3m Power: DC 5 V(Adapter Input AC 120 V/60 Hz)

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	36.1269	10.93	13.37	24.30	40.00	-15.70	QP	Р	
2	122.4038	15.71	12.11	27.82	43.50	-15.68	QP	Р	
3	174.4240	16.76	11.89	28.65	43.50	-14.85	QP	Р	
4	297.2238	17.15	13.80	30.95	46.00	-15.05	QP	Р	
5 *	365.5389	17.50	16.04	33.54	46.00	-12.46	QP	Р	
6	440.1961	14.31	18.11	32.42	46.00	-13.58	QP	Р	





Vertical:



Site #2 3m Anechoic Chamber Polarization: Vertical Temperature: 24.3(C) Humidity: 54 % Limit: FCC Part 15C RE 3m Power: DC 5 V(Adapter Input AC 120 V/60 Hz)

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1 *	35.8746	17.70	13.32	31.02	40.00	-8.98	QP	Р	
2	84.9993	19.93	9.28	29.21	40.00	-10.79	QP	Р	
3	120.2766	18.78	11.98	30.76	43.50	-12.74	QP	Р	
4	176.8874	14.51	11.63	26.14	43.50	-17.36	QP	Р	
5	231.7178	15.73	12.22	27.95	46.00	-18.05	QP	Р	
6	451.1349	17.51	18.35	35.86	46.00	-10.14	QP	Р	

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

- 2. Measurements were conducted in all three channels (high, middle, low) and all modulation(802.11b, 802.11g, 802.11n(HT20), 802.11n(HT40)), and the worst case Mode (Highest channel and 802.11b) was submitted only.
- 3. Freq. = Emission frequency in MHz
 Measurement (dBμV/m) = Reading level (dBμV) + Corr. Factor (dB)
 Correction Factor= Antenna Factor + Cable loss Pre-amplifier
 Limit (dBμV/m) = Limit stated in standard
 Margin (dB) = Measurement (dBμV/m) Limits (dBμV/m)

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

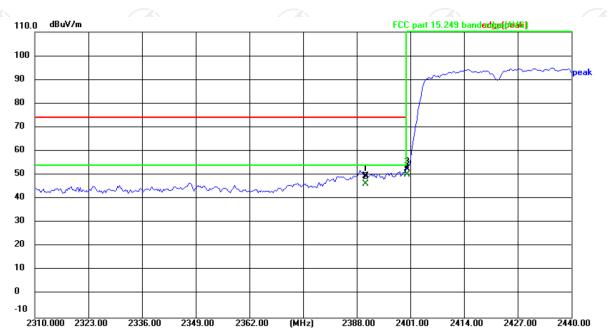




Test Result of Radiated Spurious at Band edges

Lowest channel 2422:

Horizontal:



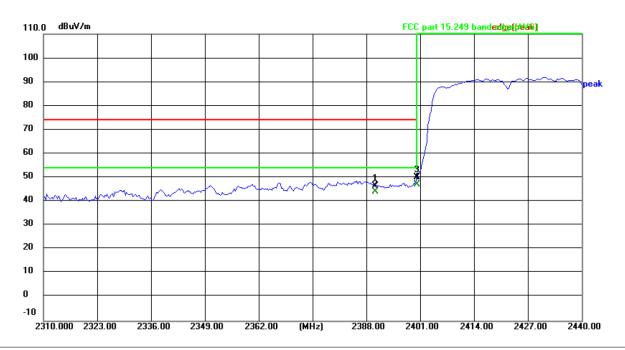
Site Polarization: Horizontal Temperature: 24($^{\circ}$ C) Limit: FCC part 15.249 bandedge(peak) Power: DC 3.7 V Humidity: 52 %

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector	P/F	Remark
1	2390.000	64.52	-14.99	49.53	74.00	-24.47	peak	Р	
2	2390.000	61.14	-14.99	46.15	54.00	-7.85	AVG	Р	
3	2400.000	67.57	-14.95	52.62	74.00	-21.38	peak	Р	
4 *	2400.000	65.01	-14.95	50.06	54.00	-3.94	AVG	Р	





Vertical:



Site Polarization: Vertical Temperature: $24(^{\circ}\text{C})$ Limit: FCC part 15.249 bandedge(peak) Power: DC 3.7 V Humidity: 52%

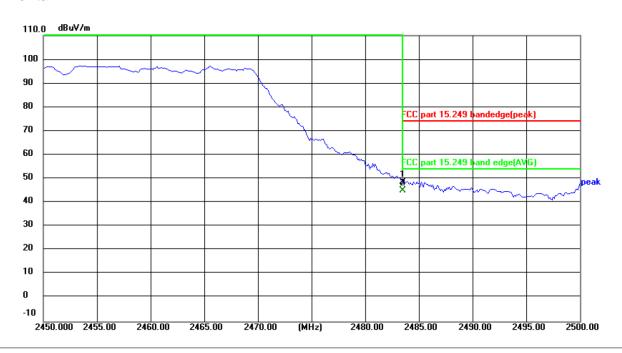
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector	P/F	Remark
1	2390.000	61.56	-14.99	46.57	74.00	-27.43	peak	Р	
2	2390.000	59.05	-14.99	44.06	54.00	-9.94	AVG	Р	
3	2400.000	65.25	-14.95	50.30	74.00	-23.70	peak	Р	
4 *	2400.000	62.21	-14.95	47.26	54.00	-6.74	AVG	Р	





Highest channel 2452:

Horizontal:



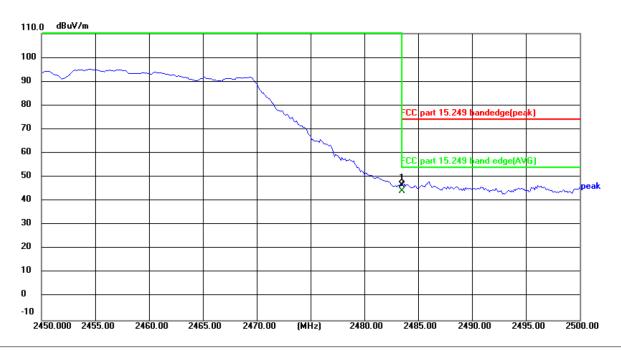
Site Polarization: Horizontal Temperature: 24($^{\circ}$ C) Limit: FCC part 15.249 bandedge(peak) Power: DC 3.7 $^{\vee}$ Humidity: 52 $^{\circ}$ 6

No.	Frequency (MHz)	Reading (dBuV)		Level (dBuV/m)		Margin (dB)	Detector	P/F	Remark
1	2483.500	63.19	-14.58	48.61	74.00	-25.39	peak	Р	
2 *	2483.500	59.74	-14.58	45.16	54.00	-8.84	AVG	Р	





Vertical:



Site Polarization: Vertical Temperature: 24(℃) DC 3.7 V Humidity: 52 %

Limit: FCC part 15.249 bandedge(peak)

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector	P/F	Remark
1	2483.500	61.09	-14.58	46.51	74.00	-27.49	peak	Р	
2 *	2483.500	58.64	-14.58	44.06	54.00	-9.94	AVG	Р	

Power:

Note:

- 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), 802.11n(HT40)), and the worst case Mode 802.11n(HT40)) was submitted only.









Above 1GHz Modulation Type: 802.11b

Report No.: TCT220418E903

	Modulation Type: 002.11b											
	Low channel: 2412 MHz											
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBuV)	Correction Factor (dB/m)	Daali AV		Peak limit (dBµV/m)		Margin (dB)			
4824	Н	45.39		0.75	46.14		74	54	-7.86			
7236	Н	35.61		9.87	45.48		74	54	-8.52			
	Н											
			, ,				T					
4824	V	44.28		0.75	45.03		74	54	-8.97			
7236	V	33.03	{_C	9.87	42.90	()	74	54	-11.10			
	V											

	Middle channel: 2437MHz											
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)	Emission Level Peak AV (dBµV/m) (dBµV/m)		Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)			
4874	Η	44.52		0.97	45.49		74	54	-8.51			
7311	Η	35.84		9.83	45.67		74	54	-8.33			
	H				(
	KO)		Ϋ́O.		K			KO)				
4874	V	44.16		0.97	45.13		74	54	-8.87			
7311	V	34.75		9.83	44.58		74	54	-9.42			
	V								<u></u> ,			

			Н	ligh channe	l: 2462 MH	Z			
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)	Emission Peak (dBµV/m)	AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
4924	H	43.97	(.6)	1.18	45.15	<u> </u>	74	54	-8.85
7386	H	34.40		10.07	44.47)	74	54	-9.53
	Н								
4924	V	45.23		1.18	46.41		74	54	-7.59
7386	V	34.58		10.07	44.65		74	54	-9.35
	V	-10			J				

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. 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.





Modulation Type: 802.11g

					l: 2412 MH				
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	44.78		0.75	45.53		74	54	-8.47
7236	Н	34.50		9.87	44.37		74	54	-9.63
	Н	-2			J		<u></u>		
			1				T	ı	
4824	V	43.05		0.75	43.80		74	54	-10.20
7236	V	33.61		9.87	43.48		74	54	-10.52
	V		{_C	*)	1/2	O')		(_A C ₃₋₂)	

	Middle channel: 2437MHz											
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)	Emission Peak (dBµV/m)	AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)			
4874	Н	44.36		0.97	45.33		74	54	-8.67			
7311	Н	34.19		9.83	44.02		74	54	-9.98			
	Н											
4874	V	44.82		0.97	45.79)	74	54	-8.21			
7311	V	35.04		9.83	44.87		74	54	-9.13			
	V											

		(6)	Н	ligh channe	l: 2462 MH	Z			(G)
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Peak (dBµV/m)	n Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
4924	Н.,	43.27		1.18	44.45		74	54	-9.55
7386	H	35.93	f.c3	10.07	46.00	<u></u>	74	54	-8.00
	H			/				/	
4924	V	45.68		1.18	46.86		74	54	-7.14
7386	V	34.10		10.07	44.17		74	54	-9.83
(~ C)	V	(- 0)		(, ((`)		√C -}		(,-C, `)

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. 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.





Modulation Type: 802.11n (HT20)

			IVIOUU	iation Type.	. 002.1111 (1	1120)			
			L	ow channe	I: 2412 MH	Z			
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBuV)	Correction Factor (dB/m)	Emission Peak (dBµV/m)	AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
4824	Н	45.90		0.75	46.65		74	54	-7.35
7236	Н	36.25		9.87	46.12	(74	54	-7.88
	Н				J				<u></u>
4824	V	45.06		0.75	45.81		74	54	-8.19
7236	V	35.34	/ /	9.87	45.21		74	54	-8.79
	V		420		/2)		(<u>,</u> (<u>G</u>)	

	Middle channel: 2437MHz											
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)	Emission Peak (dBµV/m)	n Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)			
4874	Η	44.71		0.97	45.68		74	54	-8.32			
7311	Н	35.49		9.83	45.32		74	54	-8.68			
	Н											
4874	V	44.12		0.97	45.09)	74	54	-8.91			
7311	V	34.57		9.83	44.40		74	54	-9.60			
	V											

(G)		(.6)) H	ligh channe	l: 2462 MH	Z	(.c)		(.c)
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)	Emission Peak (dBµV/m)	AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
4924	T	44.88		1.18	46.06		74	54	-7.94
7386	H	35.63	f . c .	10.07	45.70	<u> </u>	74	54	-8.30
	H			/	``	<u></u>		/	
4924	V	42.96		1.18	44.14		74	54	-9.86
7386	V	34.31		10.07	44.38		74	54	-9.62
(~ C ~,)	V	[2 0]		(20	·		∠O }		(, C))

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. 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.



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



Modulation Type: 802.11n (HT40)

				іапоп туре.	,				
			L	ow channe	I: 2422 MH:	Z			
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBuV)	Correction Factor (dB/m)	Emission Peak (dBµV/m)	n Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
4844	Н	43.59		0.75	44.34		74	54	-9.66
7266	Н	34.13		9.87	44.00	(74	54	-10.00
	Н				J		<u></u>		
4824	V	45.80		0.75	46.55		74	54	-7.45
7236	V	36.27		9.87	46.14		74	54	-7.86
	V		420	*)	/	O ')		(<u>,</u> C <u></u> -)	

	Middle channel: 2437MHz											
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)	Emission Peak (dBµV/m)	AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)			
4874	Н	44.65		0.97	45.62		74	54	-8.38			
7311	Н	36.02		9.83	45.85		74	54	-8.15			
	Н											
4874	V	46.48		0.97	47.45)	74	54	-6.55			
7311	V	35.71		9.83	45.54		74	54	-8.46			
	V											

		(,c)) H	ligh channe	l: 2452 MH	Z			(.ci)
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)	Emission Peak (dBµV/m)	n Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
4904	H	45.36		1.18	46.54		74	54	-7.46
7356	H	36.94	/ . c }	10.07	47.01	<u></u>	74	54	-6.99
	H			/	<	<u></u>		/	
4904	V	44.20		1.18	45.38		74	54	-8.62
7356	V	34.56		10.07	44.63		74	54	-9.37
(~ C)	V	(- 0)		(, ((``ر		√C -}		(. C))

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. 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.



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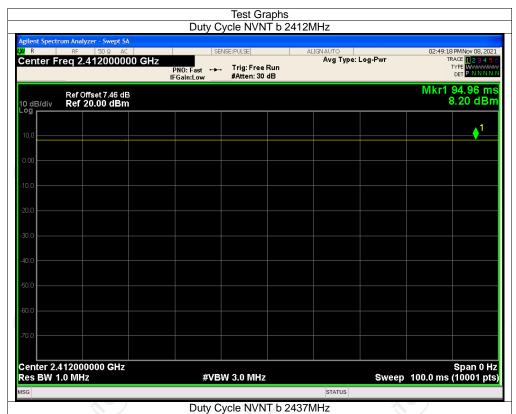


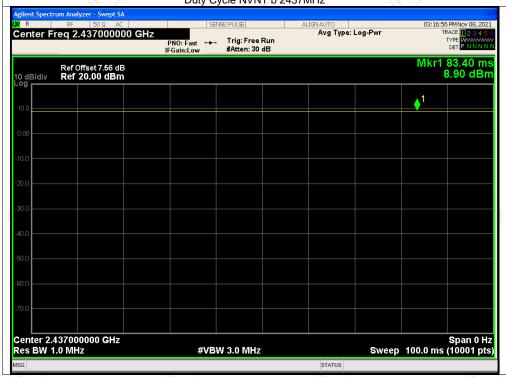
Appendix A: Test Result of Conducted Test

Duty Cycle

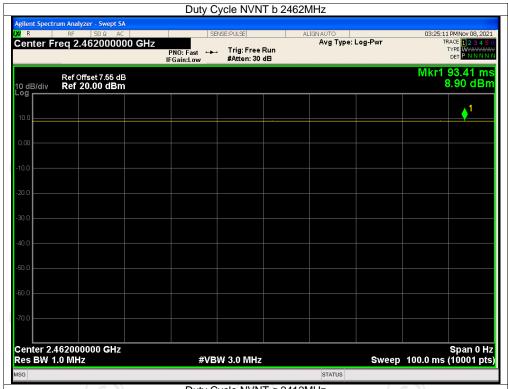
	Condition	Mode	Frequency (M	Hz)	Duty Cycle (%	5)	
	NVNT	b	2412		100		
	NVNT	b	2437		100		
	NVNT	b	2462		100		
	NVNT	g	2412		100		
	NVNT	g	2437	(6)	100		
	NVNT	g = 20	2462		100		
-	NVNT NVNT	n20	2412 2437		100 100		
	NVNT	n20 n20	2462		100		
	NVNT	n40	2422		100		
-	NVNT	n40	2437		100		
	NVNT	n40	2452		100		

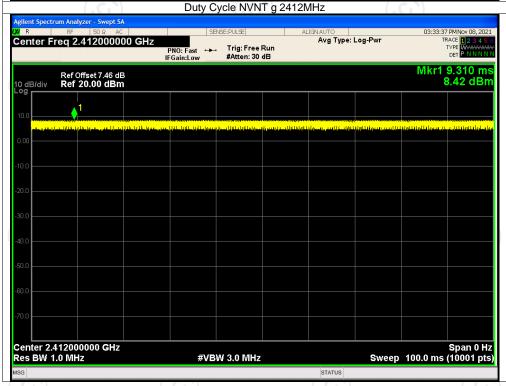




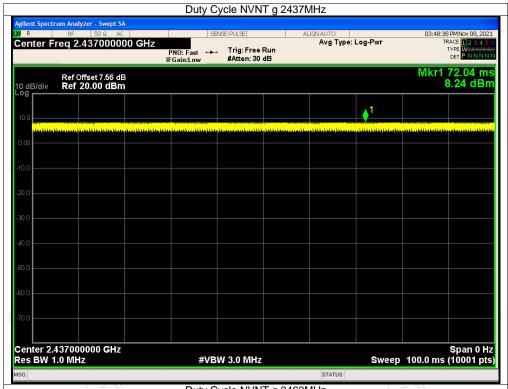


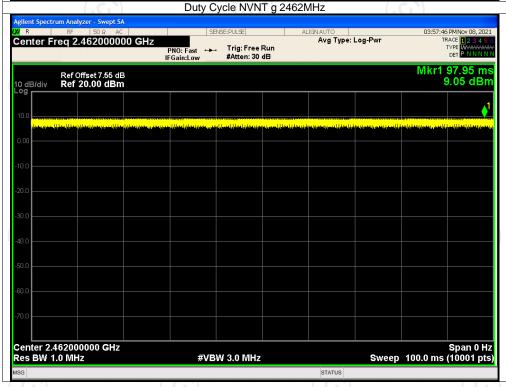




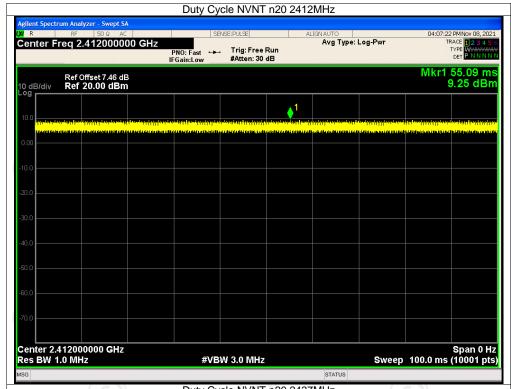


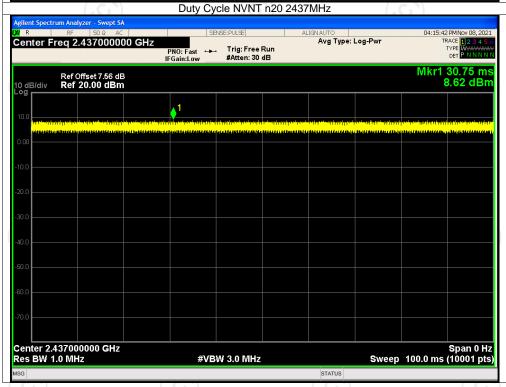




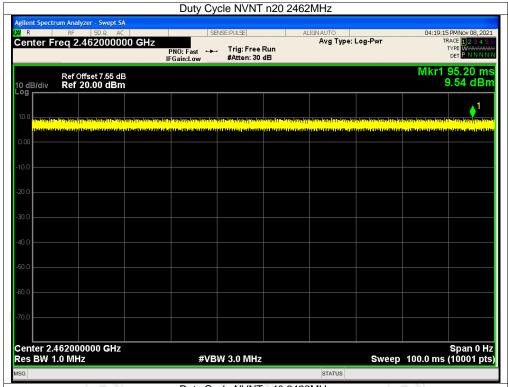


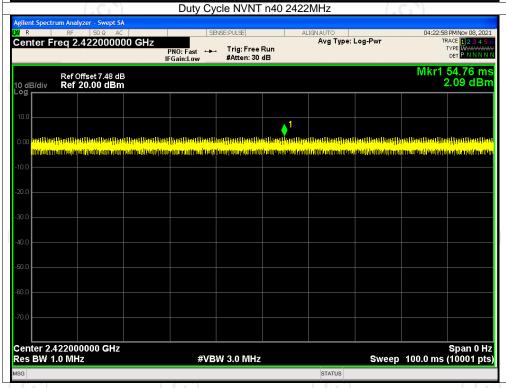




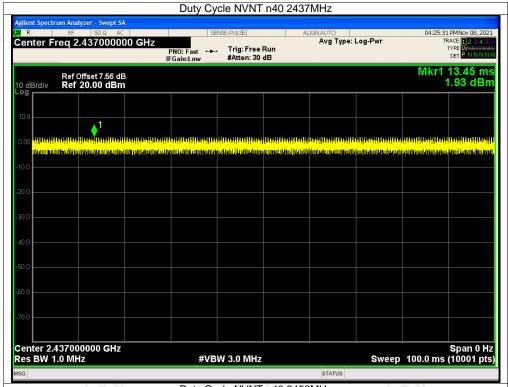


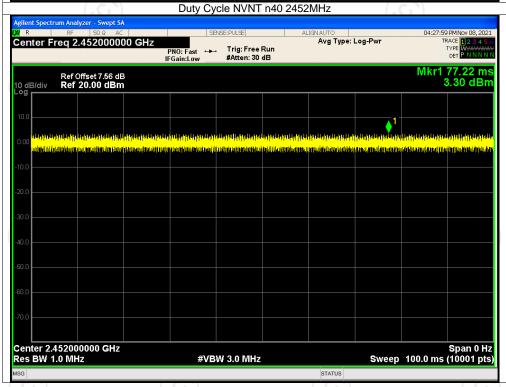












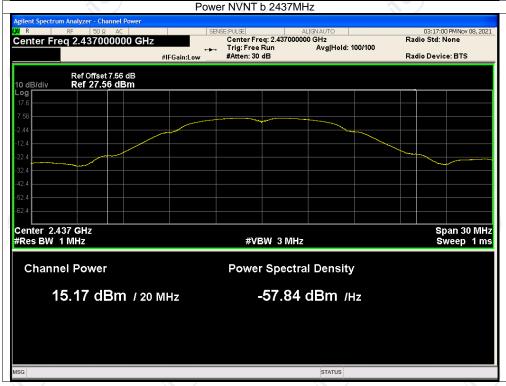


Maximum Conducted Output Power

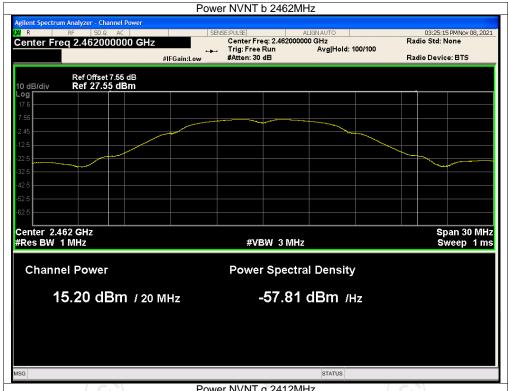
Condition	Mode	Frequency (MHz)		nducted rer (dBm)	Limit (dBm)	Verdict	
NVNT	b	2412		4.218	30	Pass	
NVNT	b	2437	() 1	5.174	30	Pass	
NVNT	b	2462		5.200	30	Pass	
NVNT	g	2412		3.192	30	Pass	
NVNT	g	2437		3.178	30	Pass	
NVNT	g	2462		3.897	30	Pass	
NVNT	n20	2412		3.201	30	Pass	
NVNT	n20	2437		2.785	30	Pass	
NVNT	n20	2462		3.553	30	Pass	
NVNT	n40	2422		2.272	30	Pass	
NVNT	n40	2437		2.543	30	Pass	
NVNT	n40	2452		2.790	30	Pass	

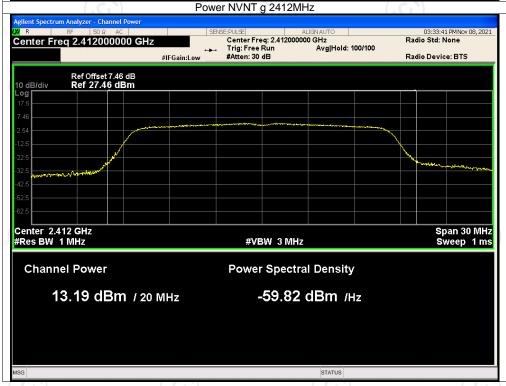




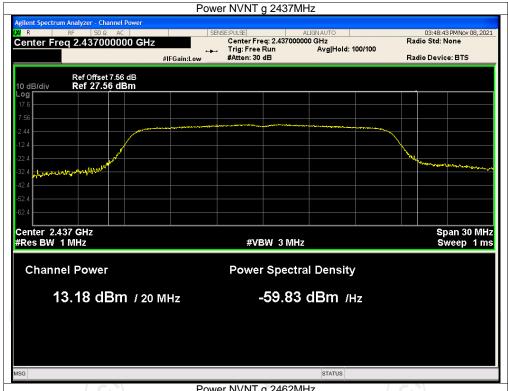






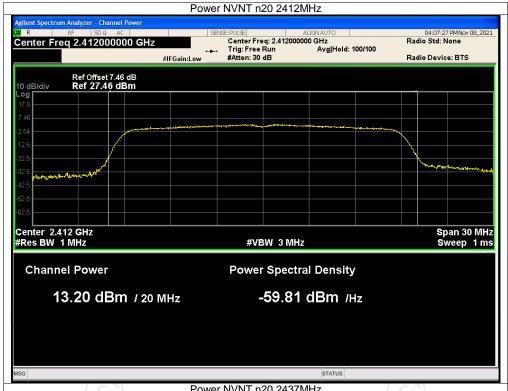


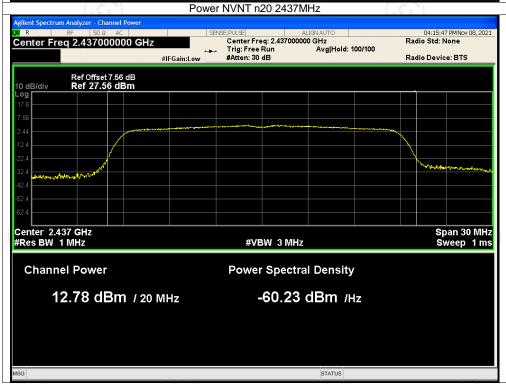




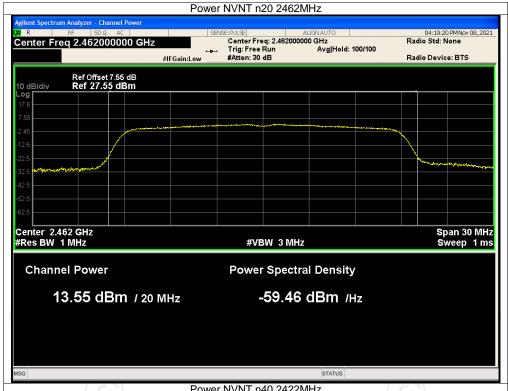


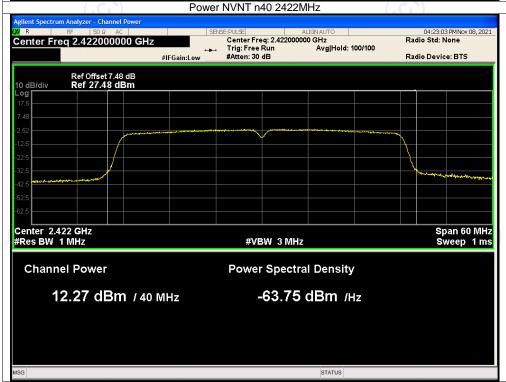




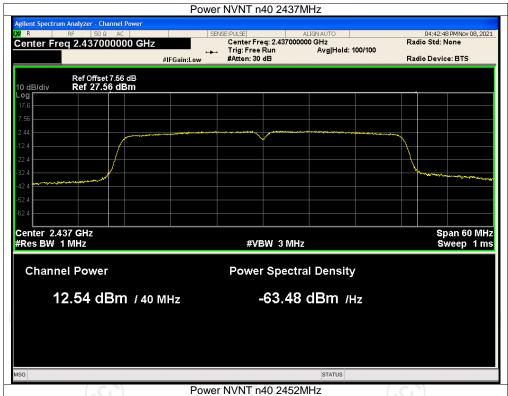


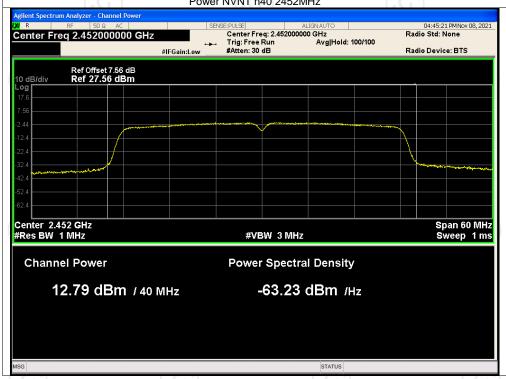














-6dB Bandwidth

Condition	Mode	Frequency (MHz)	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	b	2412	9.126	0.5	Pass
NVNT	b	2437	9.256	0.5	Pass
NVNT	b	2462	9.498	0.5	Pass
NVNT	g	2412	16.365	0.5	Pass
NVNT	g	2437	16.360	0.5	Pass
NVNT	g	2462	16.348	0.5	Pass
NVNT	n20	2412	17.585	0.5	Pass
NVNT	n20	2437	17.611	0.5	Pass
NVNT	n20	2462	17.590	0.5	Pass
NVNT	n40	2422	36.324	0.5	Pass
NVNT	n40	2437	36.324	0.5	Pass
NVNT	n40	2452	36.315	0.5	Pass













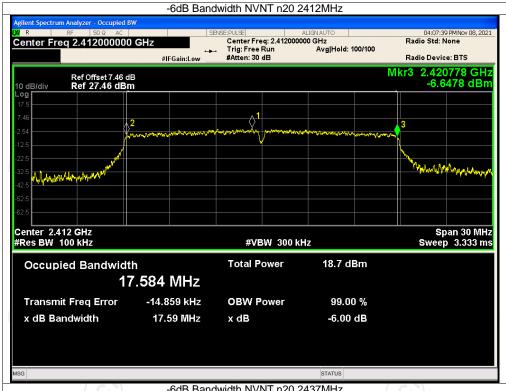


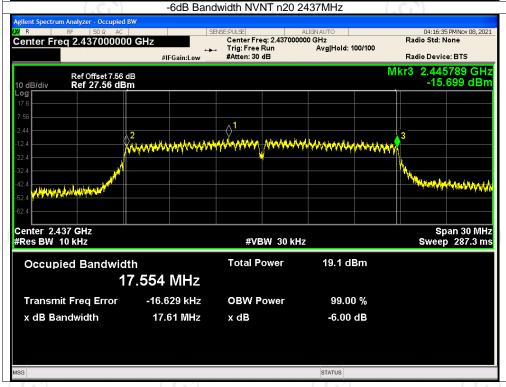




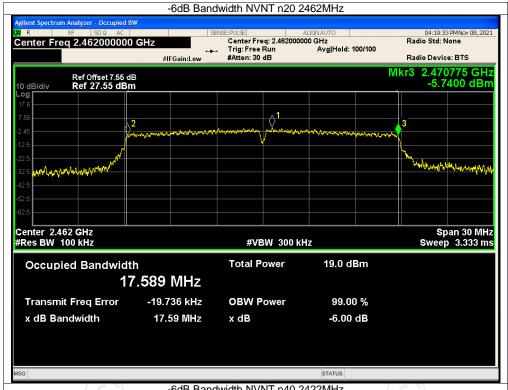


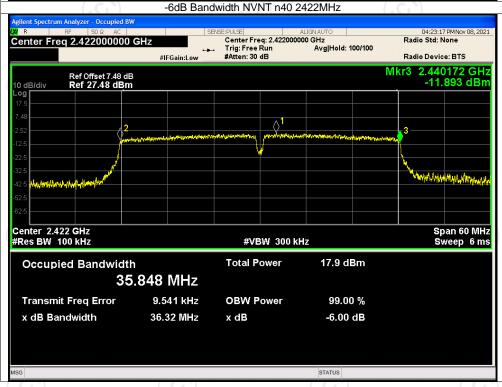




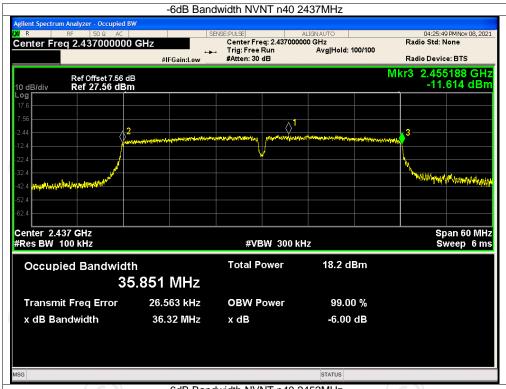
















Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Max PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	b	2412	-18.539	8	Pass
NVNT	b	2437	-17.784	8	Pass
NVNT	b	2462	-17.731	8	Pass
NVNT	g	2412	-20.765	8	Pass
NVNT	g	2437	-20.800	8	Pass
NVNT	g	2462	-20.101	8	Pass
NVNT	n20	2412	-20.979	8	Pass
NVNT	n20	2437	-21.285	8	Pass
NVNT	n20	2462	-20.095	8	Pass
NVNT	n40	2422	-25.509	8	Pass
NVNT	n40	2437	-25.179	8	Pass
NVNT	n40	2452	-24.259	8	Pass







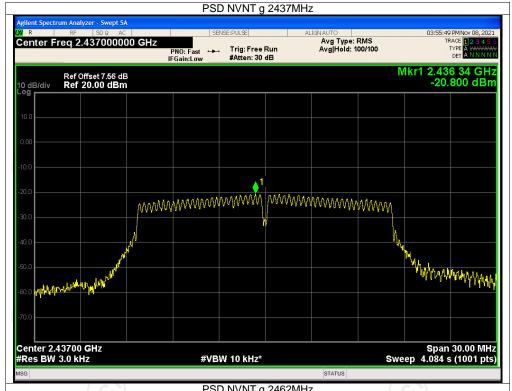


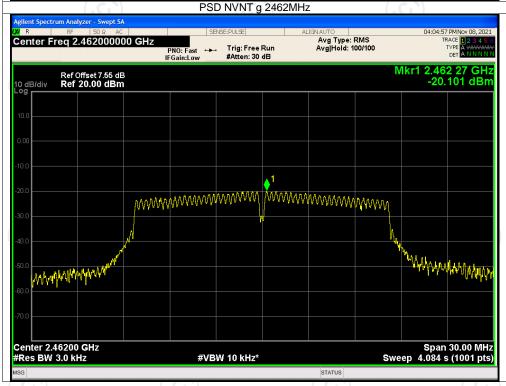




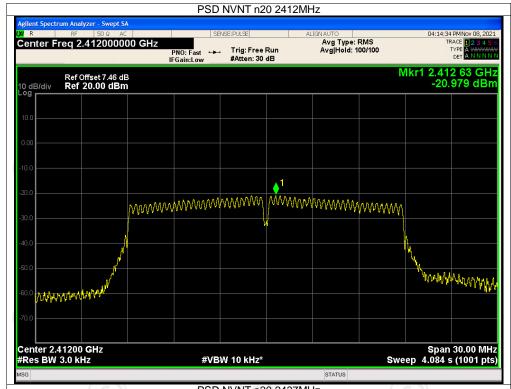


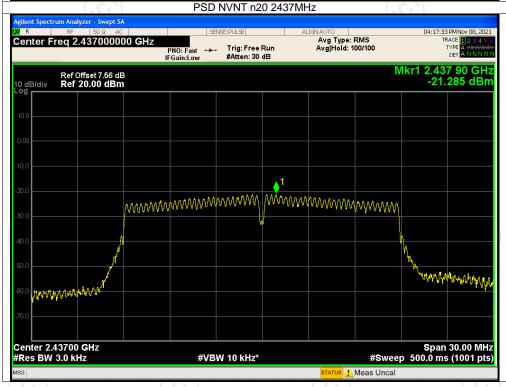




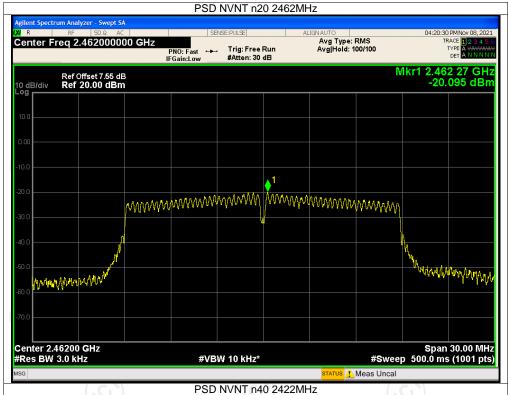


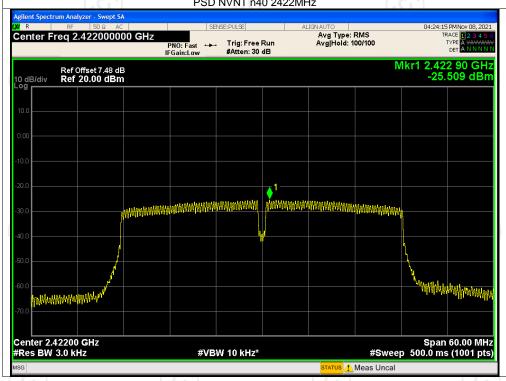




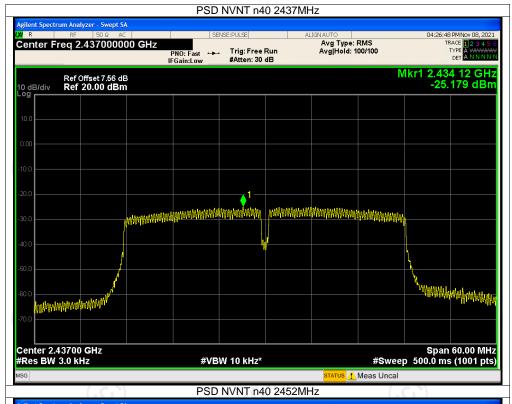


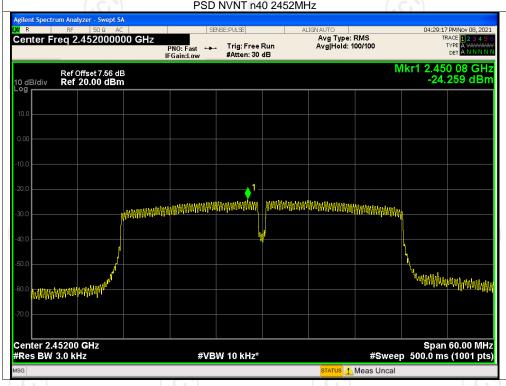








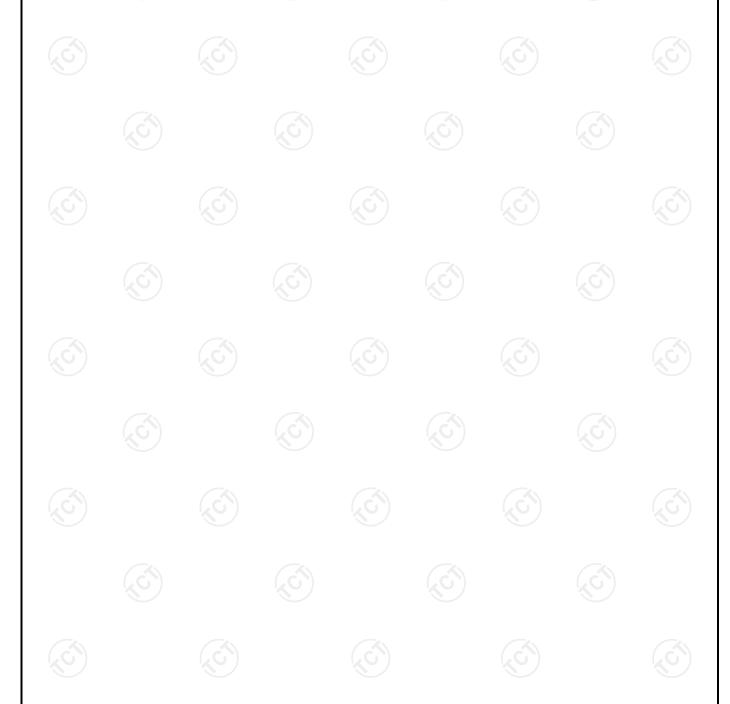






Band Edge

Condition	Mode	Frequency (MHz)	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	-54.83	-30	Pass
NVNT	b	2462	-45.42	-30	Pass
NVNT	g	2412	-40.05	-30	Pass
NVNT	g	2462	-36.06	-30	Pass
NVNT	n20	2412	-40.45	-30	Pass
NVNT	n20	2462	-33.83	-30	Pass
NVNT	n40	2422	-33.22	-30	Pass
NVNT	n40	2452	-31.92	-30	Pass















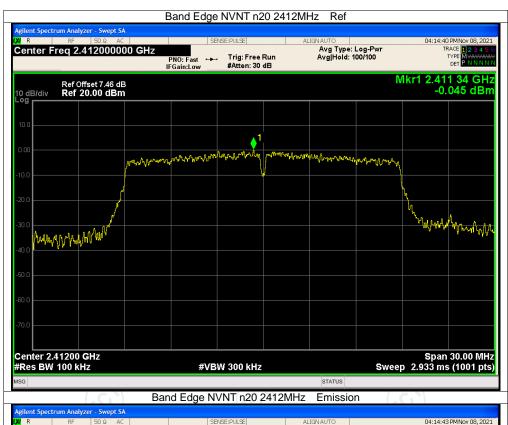


















#VBW 300 kHz

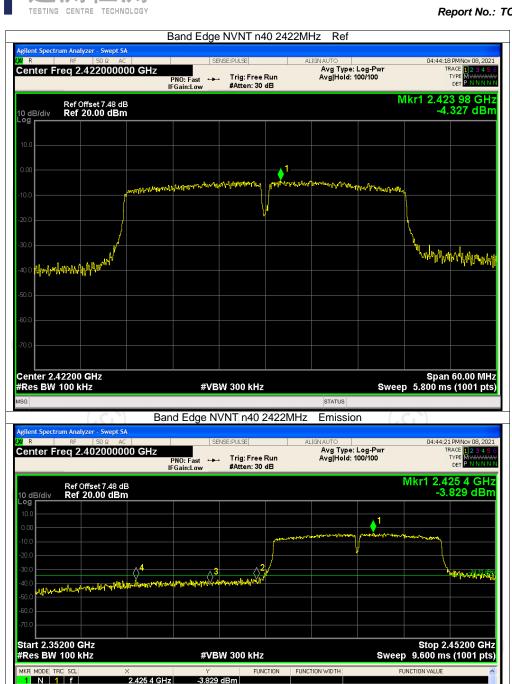
FUNCTION

FUNCTION WIDTH

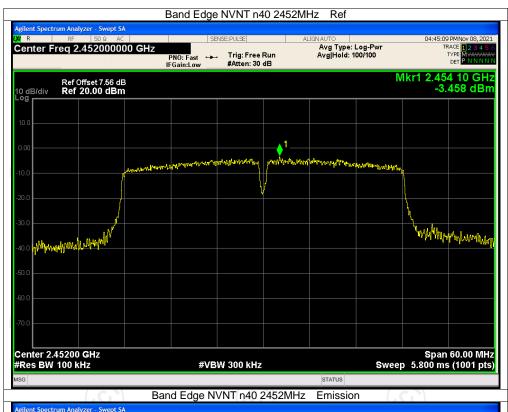
STATUS

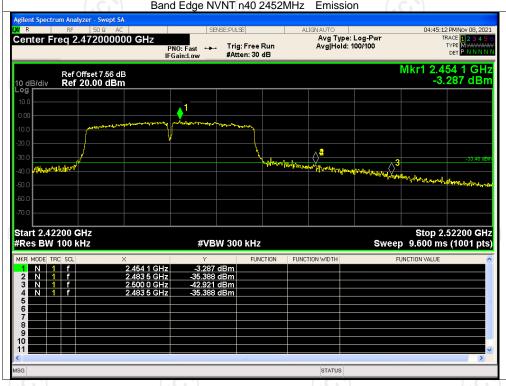
FUNCTION VALUE











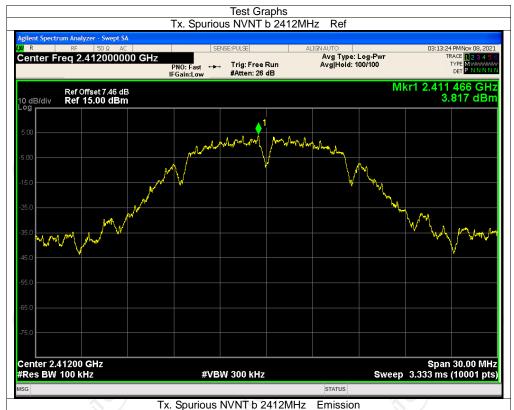


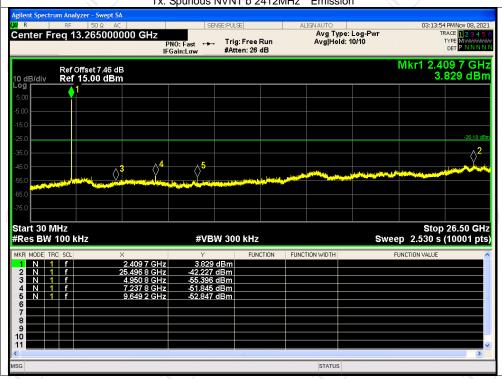
Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	-46.04	-30	Pass
NVNT	b	2437	-47.61	-30	Pass
NVNT	b	2462	-47.96	-30	Pass
NVNT	g	2412	-42.74	-30	Pass
NVNT	g	2437	-42.19	-30	Pass
NVNT	g	2462	-43.96	-30	Pass
NVNT	n20	2412	-42.79	-30	Pass
NVNT	n20	2437	-42.21	-30	Pass
NVNT	n20	2462	-43.24	-30	Pass
NVNT	n40	2422	-38.51	-30	Pass
NVNT	n40	2437	-39.57	-30	Pass
NVNT	n40	2452	-38.24	-30	Pass









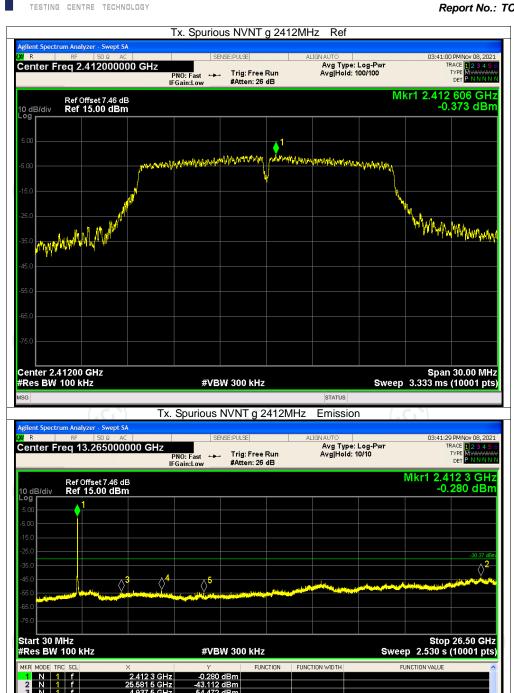
















#VBW 300 kHz

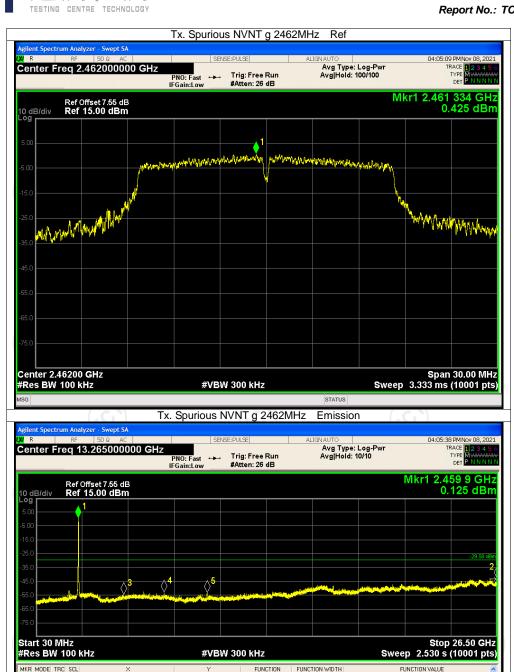
FUNCTION

FUNCTION WIDTH

STATUS

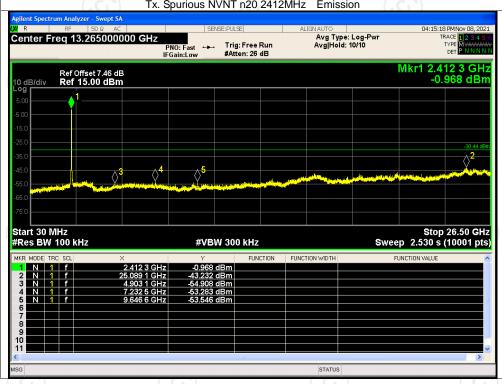
FUNCTION VALUE



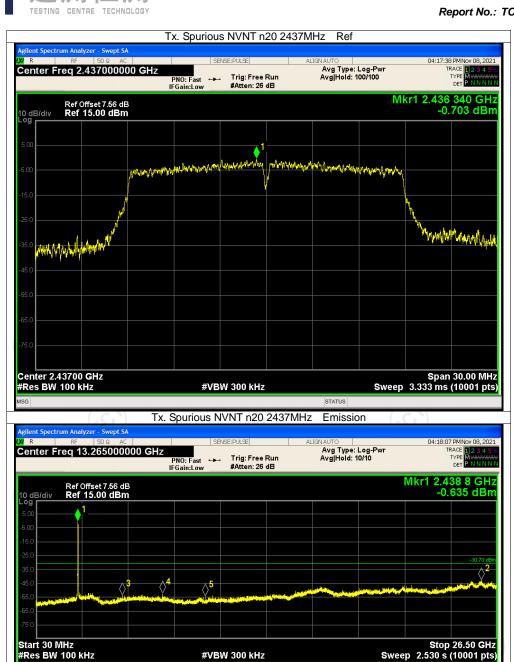












#VBW 300 kHz

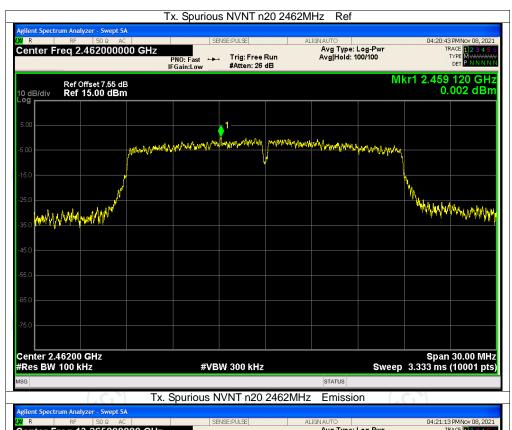
FUNCTION

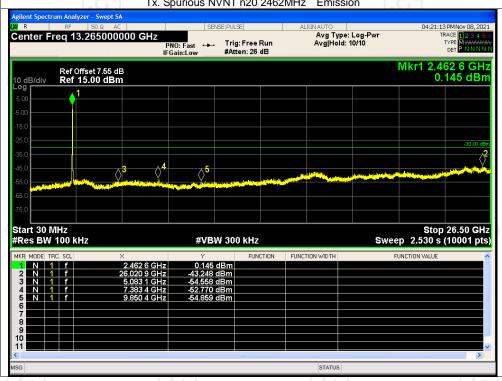
FUNCTION WIDTH

STATUS

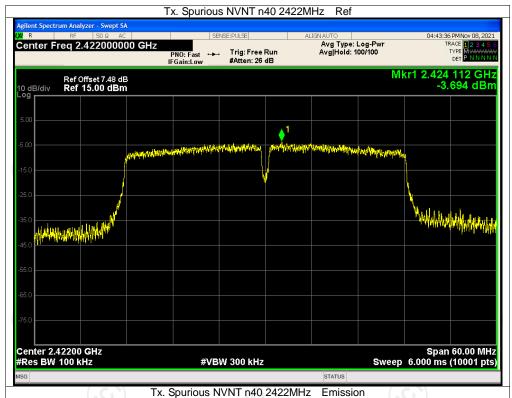
FUNCTION VALUE

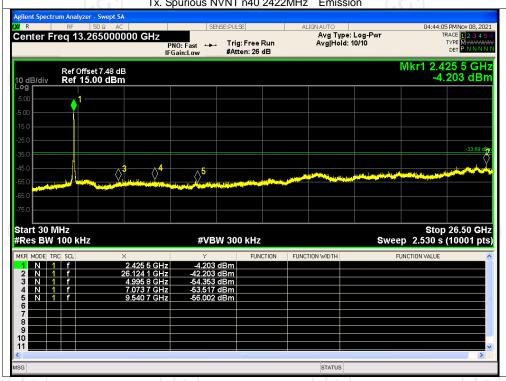




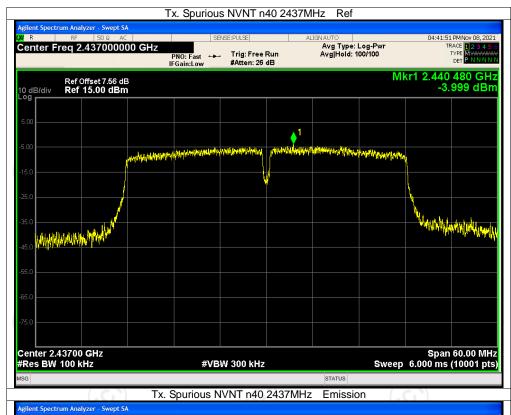


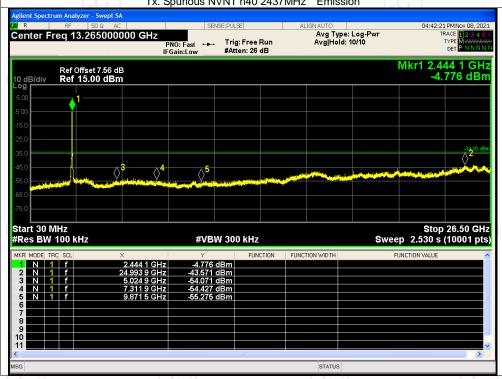




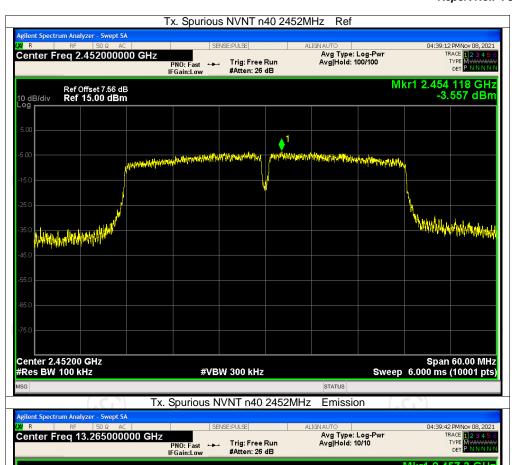


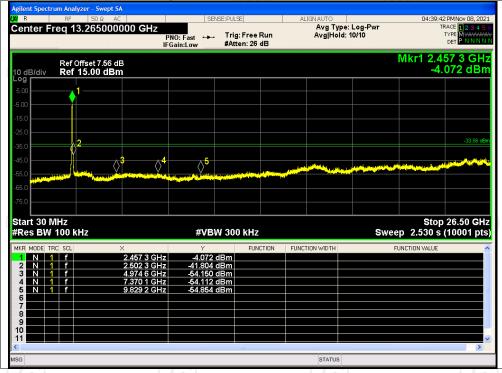














Appendix B: Photographs of Test Setup

Refer to the test report No. TCT220418E902

Appendix C: Photographs of EUT

Refer to the test report No. TCT220418E902

