



TEST	REP	ORT
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FCC ID:	ZLE-RG935				
Test Report No::	TCT211201E051				
Date of issue::	Jan. 12, 2022				
Testing laboratory:	SHENZHEN TONGCE TESTING	S LAB			
Testing location/ address:	TCT Testing Industrial Park Fuqi Street, Bao'an District Shenzhen Republic of China		∍'s		
Applicant's name::	Power Idea Technology (Shenzh	en) Co., Ltd.			
Address::	4th Floor, A Section, Languang S Hi-Tech Industrial Park North, Na China		١,		
Manufacturer's name:	Power Idea Technology (Shenzh	en) Co., Ltd.			
Address::	4th Floor, A Section, Languang Science&technology, Xinxi RD, Hi-Tech Industrial Park North, Nanshan, ShenZhen, 518057 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				
Test item description:	Smart Tablet				
Trade Mark:	RugGear	Chi Ch			
Model/Type reference:	PTM01G, RG935	(0)			
Rating(s)::	Refer to EUT description of page	3			
Date of receipt of test item:	Dec. 01, 2021				
Date (s) of performance of test:	Dec. 01, 2021 ~ Jan. 12, 2022				
Tested by (+signature):	Rleo LIU	Preo Un JONGCE			
Check by (+signature):	Beryl ZHAO	Boy the TCT STEE			
Approved by (+signature):	Tomsin	Tomsm 45 84			

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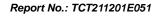




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1. General Product Information

1.1. EUT description

Test item description:	Smart Tablet		
Model/Type reference:	PTM01G		
Sample Number:	TCT21201E015-0101		
Bluetooth Version:	V5.0 (This report is for BLE)		
Operation Frequency:	2402MHz~2480MHz		
Channel Separation:	2MHz	(3)	
Number of Channel:	40		
Modulation Type:	GFSK		
Antenna Type:	Internal Antenna		
Antenna Gain:	0.7dBi		
Rating(s)::	Adapter Information1: MODEL: Q183 INPUT: AC 100-240V, 50/60Hz, (OUTPUT: DC 3.6V-6V, 3A/ DC 6) Adapter Information2: MODEL: QN184U INPUT: AC 100-240V, 50/60Hz, (OUTPUT: DC 5.0V, 3.0A/ DC 9.0) Adapter Information3: MODEL: DBS15Q INPUT: AC 100-240V, 50/60Hz, (OUTPUT: DC 5V, 3A/ DC 9V, 2A/ COUTPUT: DC 5V, 3A/ DC 9V, 2A/ Rechargeable Li-ion Battery DC 3	0.5A 0.5A 0V, 2.0A/ DC 12.0V, 1 0.5A V DC 12V, 1.5A, MAX 3.7V	.5A : 18 W

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	PTM01G	
Other models	RG935	

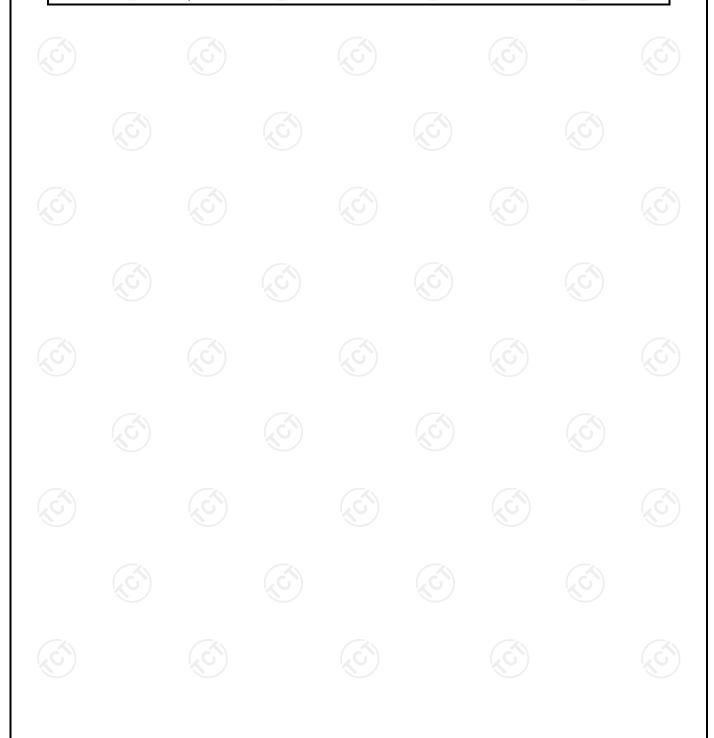
Note: PTM01G is tested model, other models are derivative models. The models are identical in circuit and PCB layout, only different on the model names, yellow and black border. So the test data of PTM01G can represent the remaining models.

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1.3. Operation Frequency

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
_ 0	2402MHz	10	2422MHz	_ 20	2442MHz	_ 30	2462MHz
G`)1	2404MHz	11	2424MHz	21	2444MHz	31	2464MHz
·		·		·		·	
8	2418MHz	18	2438MHz	28	2458MHz	38	2478MHz
9	2420MHz	19	2440MHz	29	2460MHz	39	2480MHz
Remark: Channel 0, 19 & 39 have been tested.							





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.
- 5. After pre-testing the two earphones, the two earphones are left and right ears respectively; we found that the left earphone is the worst case, so the results are recorded in this report.





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3. General Information

3.1. Test environment and mode

Operating Environment:					
Condition	Conducted Emission	Radiated Emission			
Temperature:	25 °C	23.7 °C			
Humidity:	55 % RH	48 % RH			
Atmospheric Pressure:	1010 mbar	1010 mbar			
Test Software:					
Software Information:	DUT MODE				
Power Level:	Default				
Test Mode:					
Engineering mode:	Keep the EUT in continuous transmitting by select channel and modulations with Fully-charged battery				

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

3.2. Description of Support Units

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

Equipment	Model No.	Serial No.	FCC ID	Trade Name
) 1			1	1

Note:

- 1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
- 2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.
- 3. For conducted measurements (Output Power, 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

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5. Test Results and Measurement Data

5.1. Antenna requirement

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

15.203 requirement:

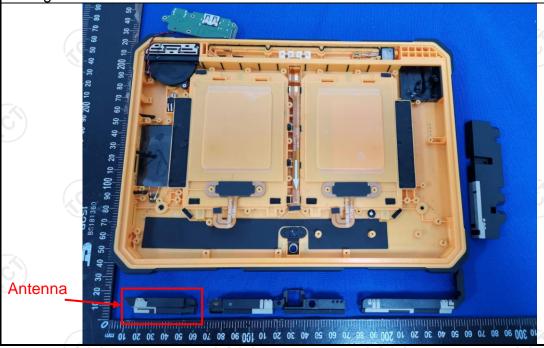
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit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

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

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

E.U.T Antenna:

The Bluetooth antenna is internal antenna which permanently attached, and the best case gain of the antenna is 0.7dBi.



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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	e=auto		
Limits:	Frequency range (MHz) Quasi-peak Average 0.15-0.5 66 to 56* 56 to 46 0.5-5 56 46 5-30 60 50				
	Refere	nce Plane	1201		
Test Setup:	Adapter E.U.T Adapter Filter AC power EMI Receiver Remark: E.U.T. Equipment Under Test LISN: Line Impedence Stabilization Network Test table height=0.8m				
Test Mode:	Charging + Transmitting Mode				
Test Procedure:	 The E.U.T is connermal impedance stabilized provides a 50 ohm/5 measuring equipment. The peripheral deviced power through a LI coupling impedance refer to the block photographs). Both sides of A.C. conducted interferer emission, the relative the interface cables ANSI C63.10: 2013 	ation network 50uH coupling im nt. ses are also conne SN that provides with 50ohm terr diagram of the line are checke nce. In order to fi e positions of equals must be change	(L.I.S.N.). This appedance for the ected to the main a 500hm/50uH mination. (Please test setup and ed for maximum and the maximum sipment and all of ged according to		
Test Result:	PASS				



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	Mar. 11, 2022		
Line-5	TCT	CE-05	N/A	Jul. 07, 2022		
EMI Test Software	Shurple Technology	EZ-EMC	N/A	N/A		



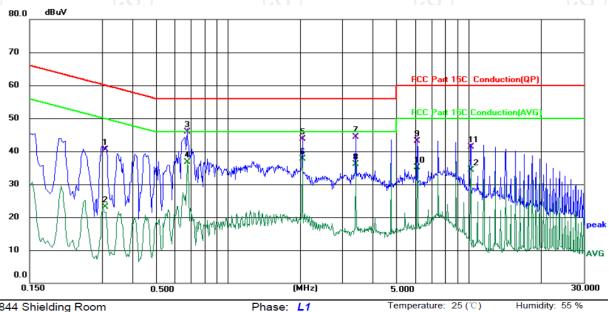


5.2.3. Test data

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Please refer to following diagram for individual

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



Site 844 Shielding Room

Limit: FCC Part 15C Conduction(QP)

Power: AC 120 V/60 Hz

No. M	/lk. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	0.3100	31.17	9.31	40.48	59.97	-19.49	QP	
2	0.3100	13.78	9.31	23.09	49.97	-26.88	AVG	
3	0.6780	36.70	9.18	45.88	56.00	-10.12	QP	
4	0.6780	27.49	9.18	36.67	46.00	-9.33	AVG	
5	2.0380	34.28	9.44	43.72	56.00	-12.28	QP	
6 *	2.0380	28.23	9.44	37.67	46.00	-8.33	AVG	
7	3.3980	34.76	9.53	44.29	56.00	-11.71	QP	
8	3.3980	26.63	9.53	36.16	46.00	-9.84	AVG	
9	6.1100	33.58	9.56	43.14	60.00	-16.86	QP	
10	6.1100	25.53	9.56	35.09	50.00	-14.91	AVG	
11	10.1820	31.73	9.61	41.34	60.00	-18.66	QP	
12	10.1820	24.62	9.61	34.23	50.00	-15.77	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

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

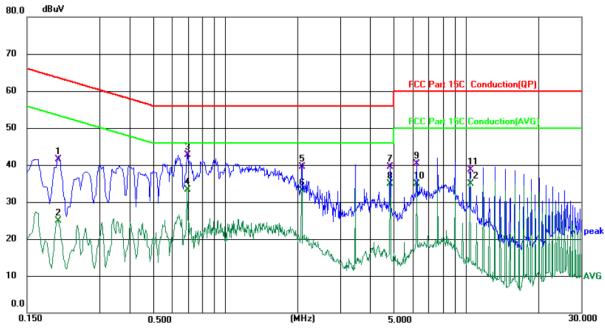
Q.P. =Quasi-Peak

AVG =average

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



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



Site 844 Shielding Room Phase: N Temperature: 25 (°C) Humidity: 55 %

Power: AC 120 V/60 Hz

Limit: FCC Part 15C Conduction(QP)

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.2020	31.96	9.50	41.46	63.53	-22.07	QP	
2		0.2020	15.46	9.50	24.96	53.53	-28.57	AVG	
3		0.6939	33.54	9.21	42.75	56.00	-13.25	QP	
4		0.6939	24.01	9.21	33.22	46.00	-12.78	AVG	
5		2.0779	30.18	9.38	39.56	56.00	-16.44	QP	
6		2.0779	23.73	9.38	33.11	46.00	-12.89	AVG	
7		4.8460	30.09	9.48	39.57	56.00	-16.43	QP	
8	*	4.8460	25.39	9.48	34.87	46.00	-11.13	AVG	
9		6.2300	30.84	9.52	40.36	60.00	-19.64	QP	
10		6.2300	25.35	9.52	34.87	50.00	-15.13	AVG	
11		10.3819	29.14	9.62	38.76	60.00	-21.24	QP	
12		10.3819	25.23	9.62	34.85	50.00	-15.15	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.



5.3. Conducted 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:	Refer to item 3.1
Test Procedure:	Set spectrum analyzer as following: a) Set the RBW ≥ DTS bandwidth. b) Set VBW ≥ 3 × RBW. c) Set span ≥ 3 x RBW d) Sweep time = auto couple. e) Detector = peak. f) Trace mode = max hold. g) Allow trace to fully stabilize. h) Use peak marker function to determine the peak amplitude level.
Test Result:	PASS

5.3.2. Test Instruments

Name	Manufacturer	Model No.	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	N9020A	MY49100619	Jul. 18, 2022
Combiner Box	Ascentest	AT890-RFB	N/A	Jul. 07, 2022



5.4. Emission Bandwidth

5.4.1. Test Specification

733		
Test Requirement:	FCC Part15 C Section 15.2	47 (a)(2)
Test Method:	KDB 558074 D01 v05r02	
Limit:	>500kHz	(C ¹)
Test Setup:	Spectrum Analyzer	EUT
Test Mode:	Refer to item 3.1	
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	(20)

5.4.2. Test Instruments

Name	Manufacturer	Model No.	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	N9020A	MY49100619	Jul. 18, 2022
Combiner Box	Ascentest	AT890-RFB	N/A	Jul. 07, 2022



5.5. Power Spectral Density

5.5.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (e)
Test Method:	KDB 558074 D01 v05r02
Limit:	The peak 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:	Refer to item 3.1
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. In order to make an accurate measurement, set the span to 1.5 times DTS Channel Bandwidth. (6dB BW) Detector = peak, Sweep time = auto couple, Trace mode = max hold, Allow trace to fully stabilize. 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

Name	Manufacturer	Model No.	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	N9020A	MY49100619	Jul. 18, 2022
Combiner Box	Ascentest	AT890-RFB	N/A	Jul. 07, 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:	KDB 558074 D01 v05r02			
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 dE 30dB relative to the maximum PSD level in 100 kHz to RF conducted measurement and radiated emission 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 Anabasa EUT			
Test Mode:	Spectrum Analyzer Refer to item 3.1			
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

Name	Manufacturer	Model No.	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	N9020A	MY49100619	Jul. 18, 2022
Combiner Box	Ascentest	AT890-RFB	N/A	Jul. 07, 2022

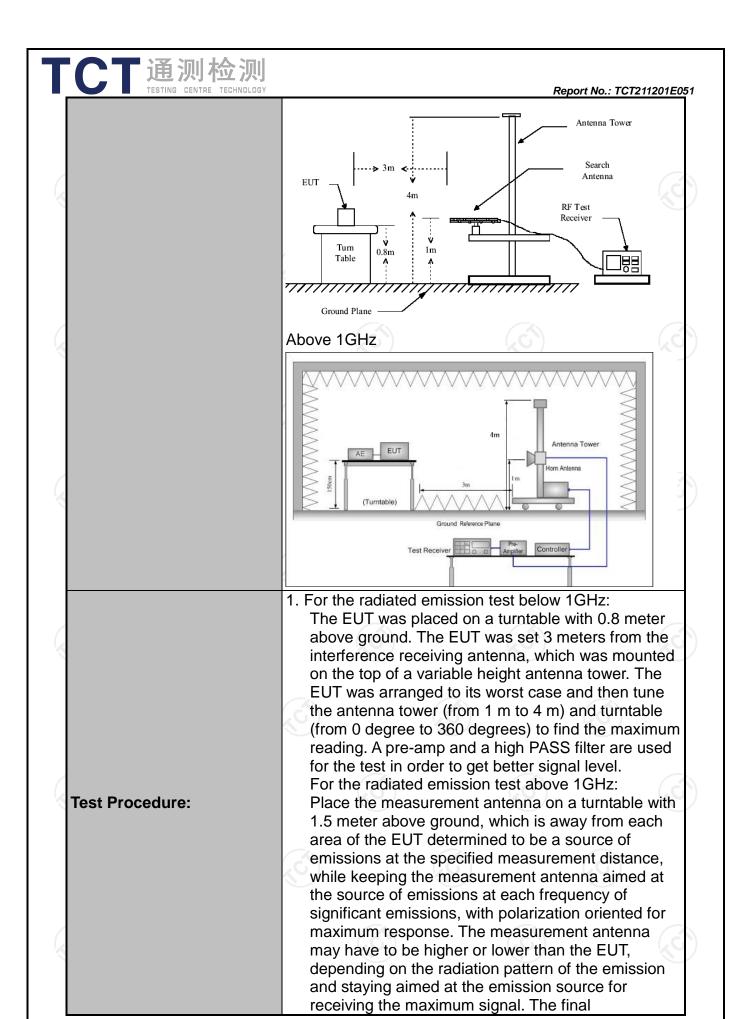




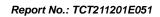
5.7. Radiated Spurious Emission Measurement

5.7.1. Test Specification

		<u> </u>					
Test Requirement:	FCC Part15	FCC Part15 C Section 15.209					
Test Method:	ANSI C63.10	D: 2013					
Frequency Range:	9 kHz to 25 (GHz					
Measurement Distance:	3 m	3 m					
Antenna Polarization:	Horizontal &	Horizontal & Vertical					
Operation mode:	Refer to item	Refer to item 3.1					
	Frequency	Detector	RBW	VBW		Remark	
	9kHz- 150kHz	Quasi-pea	k 200Hz	1kHz	Quas	i-peak Value	
Receiver Setup:	150kHz- 30MHz	Quasi-pea	k 9kHz	30kHz	Quas	i-peak Value	
·	30MHz-1GHz	Quasi-pea	k 120KHz	300KHz	Quas	i-peak Value	
	Above 4CUE	Peak	1MHz	3MHz	Pe	eak Value	
	Above 1GHz	Peak	1MHz	10Hz	Ave	rage Value	
	Frequen	ісу	Field Stre (microvolts	_	Measurement Distance (meters)		
	0.009-0.490		2400/F(I	KHz)		300	
	0.490-1.705		24000/F(KHz)		30		
	1.705-30		30		30		
	30-88		100		3		
I imale.	88-216		150		3		
Limit:	216-96	-	200			3	
	Above 9	00	500	<u>.G)</u>		3 (
	Frequency		ld Strength ovolts/meter)	Measurement Distance (meters)		Detector	
	Above 1GHz	, (500	3		Average	
	Above IGHZ	-	5000			Peak	
	For radiated	emission	s below 30)MHz			
	Distance = 3m						
	Pre -Amplifier						
Test setup:	C.Sm EUT	Turn table	lm	<u> </u>	Receiver		
	30MHz to 10	3) 1)	nd Plane	(0)		Ç	



measurement antenna elevation shall be that which
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. 2. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level 3. 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. 4. Use the following spectrum analyzer settings: Span shall wide enough to fully capture the emission being measured; 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.
Refer to section 3.1 for details
PASS (C)





5.7.2. Test Instruments

	Radiated E	Emission 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	Mar. 11, 2022
Pre-amplifier	SKET	LNPA_1840G-50	SK2021092 03500	Apr. 08, 2022
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	Apr. 08, 2022
Coaxial cable	SKET	RC-DC18G-N	N/A	Apr. 08, 2022
Coaxial cable	SKET	RC-DC40G-N	N/A	Jul. 07, 2022
EMI Test Software	Shurple Technology	EZ-EMC	N/A	N/A

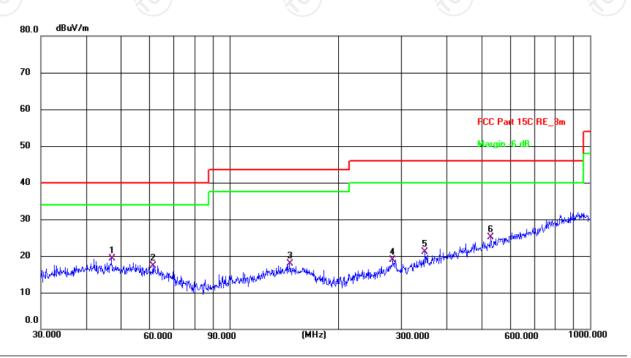


5.7.3. Test Data

Please refer to following diagram for individual

Below 1GHz

Horizontal:



Site #2 3m Anechoic Chamber Polarization: Horizontal Temperature: 23.7(C) Humidity: 48 %

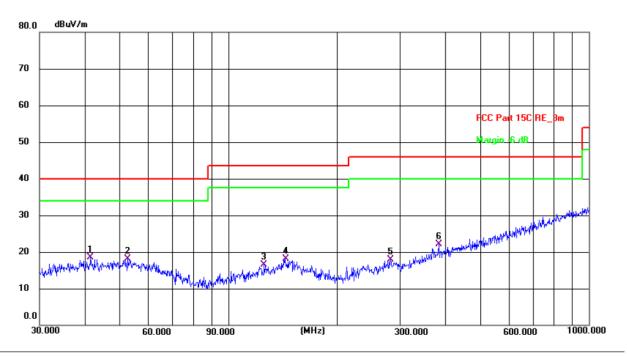
Limit: FCC Part 15C RE_3m Power: DC 3.7 V

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1 *	47.1598	5.41	13.84	19.25	40.00	-20.75	QP	Р	
2	61.3463	4.51	12.86	17.37	40.00	-22.63	QP	Р	
3	146.8876	4.69	13.30	17.99	43.50	-25.51	QP	Р	
4	283.9791	4.73	14.10	18.83	46.00	-27.17	QP	Р	
5	348.0274	5.74	15.43	21.17	46.00	-24.83	QP	Р	
6	530.1013	5.24	19.95	25.19	46.00	-20.81	QP	Р	





Vertical:



Site #2 3m Anechoic Chamber Polarization: Vertical Temperature: 23.7(C) Humidity: 48 %

Limit: FCC Part 15C RE_3m

Power: DC 3.7 V

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector	P/F	Remark
1 *	41.5670	4.44	13.97	18.41	40.00	-21.59	QP	Р	
2	52.7600	4.48	13.60	18.08	40.00	-21.92	QP	Р	
3	125.8863	4.08	12.33	16.41	43.50	-27.09	QP	Р	
4	143.8295	4.88	13.28	18.16	43.50	-25.34	QP	Р	
5	281.9945	3.75	14.14	17.89	46.00	-28.11	QP	Р	
6	383.9318	5.41	16.69	22.10	46.00	-23.90	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 the worst case Mode (High channel) 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 (dBµV/m) = Limit stated in standard Margin (dB) = Measurement (dB μ V/m) – Limits (dB μ V/m)

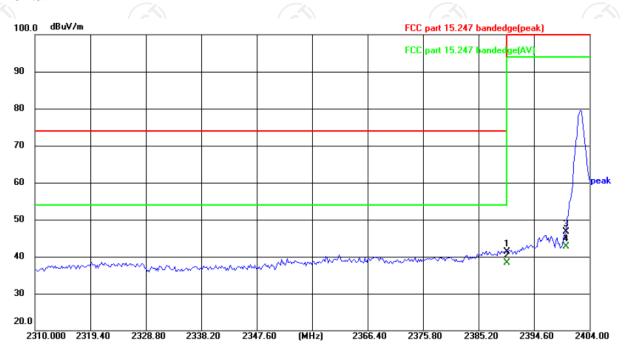
* is meaning the worst frequency has been tested in the test frequency range



Test Result of Radiated Spurious at Band edges

Lowest channel 2402:

Horizontal:



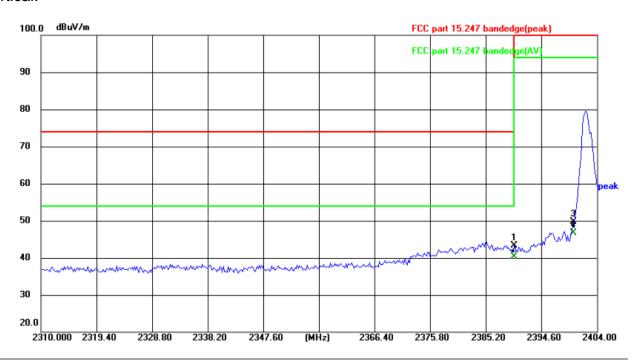
Site Polarization: Horizontal Temperature: 25(°C)
Limit: FCC part 15.247 bandedge(peak) Power: DC 3.7V Humidity: 55 %

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2390.000	54.42	-13.15	41.27	74.00	-32.73	peak
2 *	2390.000	51.35	-13.15	38.20	54.00	-15.80	AVG
3	2400.000	59.92	-13.12	46.80	114.00	-67.20	peak
4	2400.000	55.82	-13.12	42.70	94.00	-51.30	AVG





Vertical:



Site Polarization: Vertical Temperature: $25(^{\circ}\text{C})$ Limit: FCC part 15.247 bandedge(peak) Power: DC 3.7V Humidity: 55%

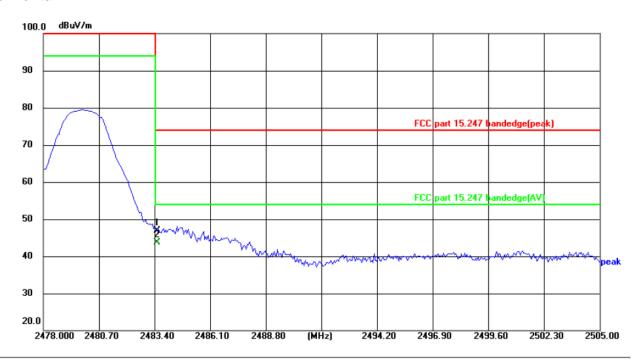
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2390.000	56.54	-13.15	43.39	74.00	-30.61	peak
2 *	2390.000	53.35	-13.15	40.20	54.00	-13.80	AVG
3	2400.000	62.81	-13.12	49.69	114.00	-64.31	peak
4	2400.000	59.92	-13.12	46.80	94.00	-47.20	AVG





Highest channel 2480:

Horizontal:



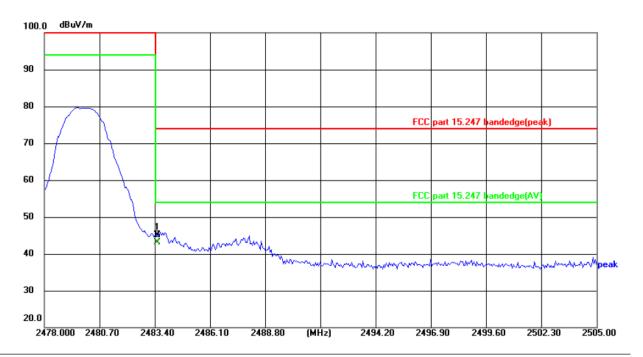
Site Polarization: Horizontal Temperature: 25(°C)
Limit: FCC part 15.247 bandedge(peak) Power: DC 3.7V Humidity: 55 %

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2483.500	59.69	-12.84	46.85	74.00	-27.15	peak
2 *	2483.500	56.56	-12.84	43.72	54.00	-10.28	AVG



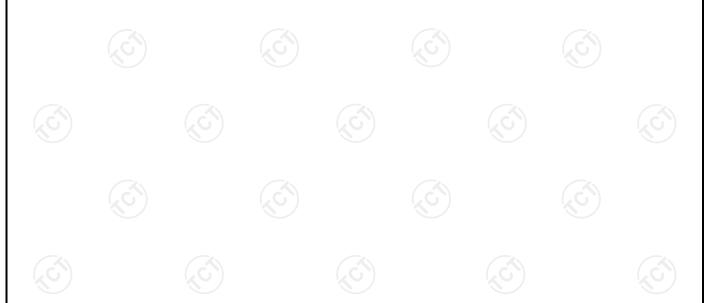


Vertical:



Site Polarization: Vertical Temperature: $25(^{\circ}\text{C})$ Limit: FCC part 15.247 bandedge(peak) Power: DC 3.7V Humidity: 55%

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector
1	2483.500	58.03	-12.84	45.19	74.00	-28.81	peak
2 *	2483.500	56.00	-12.84	43.16	54.00	-10.84	AVG





Above 1GHz

Low channe	el: 2402 N	1Hz							
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBuV)	Correction Factor (dB/m)	Emissic Peak (dBµV/m)	AV	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
4804	Н	43.93		0.66	44.59		74	54	-9.41
7206	Н	34.48		9.50	43.98		74	54	-10.02
	Н								
4804	V	43.15		0.66	43.81		74	54	-10.19
7206	V	34.36	-420	9.50	43.86	(C) -} -	74	54	-10.14
	V					<u></u>			

Middle cha	nnel: 2440) MHz							
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)	Emissic Peak (dBµV/m)	AV	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
4880	Η	45.10		0.99	46.09		74	54	-7.91
7320	Η	35.79	-	9.87	45.66		74	54	-8.34
	H				/				
Į.			KO		· ·			KO)	
4880	٧	44.96)	0.99	45.95)	74	54	-8.05
7320	V	35.52		9.87	45.39		74	54	-8.61
	V	,			·		-		

High chann	el: 2480 N	ИHz							
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)	Emissic Peak (dBµV/m)	AV	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
4960	Ξ	42.20	+-6	1.33	43.53		74	54	-10.47
7440	Н	32.56	-1	10.22	42.78		74	54	-11.22
	Н								
4960	V	43.39		1.33	44.72		74	54	-9.28
7440	V	33.41		10.22	43.63		74	54	-10.37
	V				/				

Note:

- 1. Emission Level=Peak Reading + Correction Factor; Correction Factor= Antenna Factor + Cable loss Pre-amplifier
- 2. Margin (dB) = Emission Level (Peak) (dB μ V/m)-Average limit (dB μ V/m)
- 3. The emission levels of other frequencies are very lower than the limit and not show in test report.
- 4. Measurements were conducted from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 5. Data of measurement shown "---"in the above table mean that the reading of emissions is attenuated more than 20 dB below the limits or the field strength is too small to be measured.
- 6. All the restriction bands are compliance with the limit of 15.209.



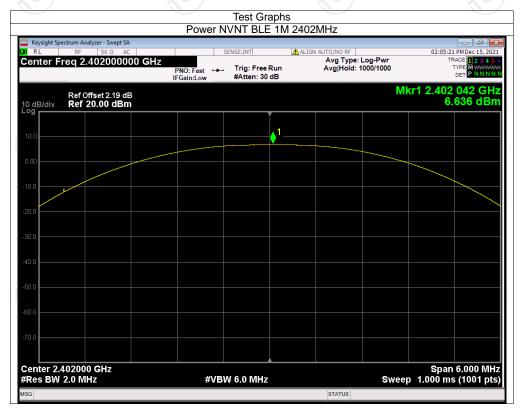




Appendix A: Test Result of Conducted Test

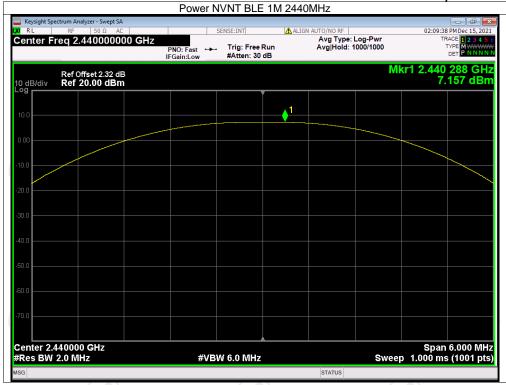
Maximum Conducted Output Power

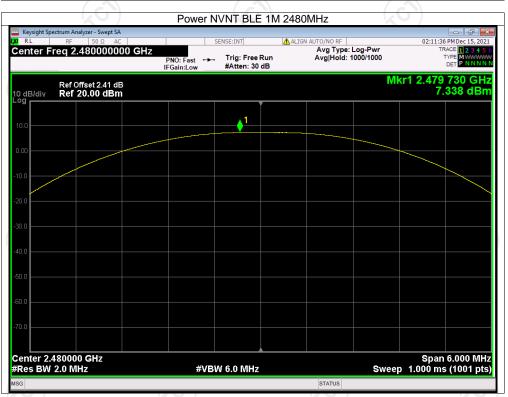
	Condition	Frequency (MHz)	Conducted Power (dBm)	Limit (dBm)	Verdict
	NVNT	2402	6.64	30	Pass
	NVNT	2440	7.16	30	Pass
ď	NVNT	2480	7.34	30	Pass



TCT通测检测
TESTING CENTRE TECHNOLOGY

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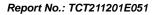


-6dB Bandwidth

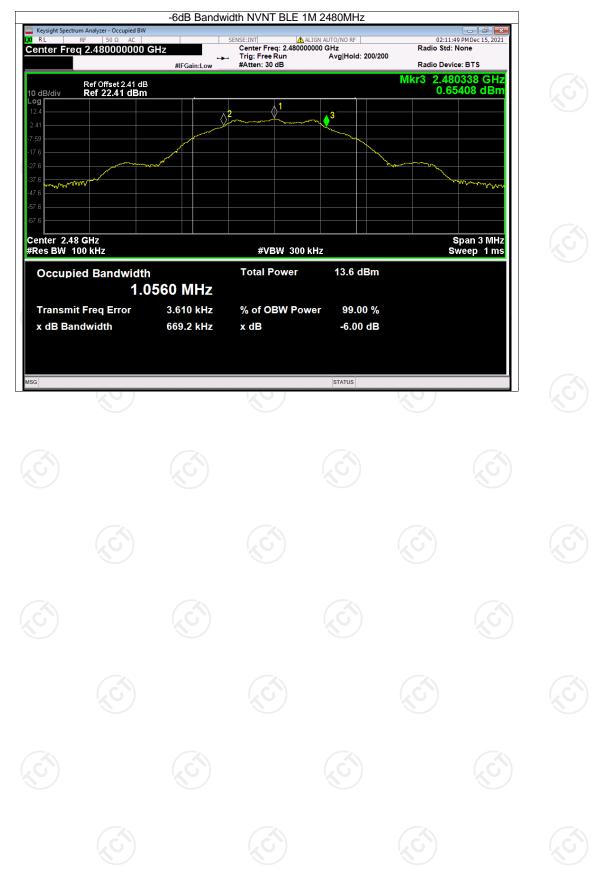
Condition	Frequency (MHz)	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	2402	0.672	0.5	Pass
NVNT	2440	0.664	0.5	Pass
NVNT	2480	0.669	0.5	Pass







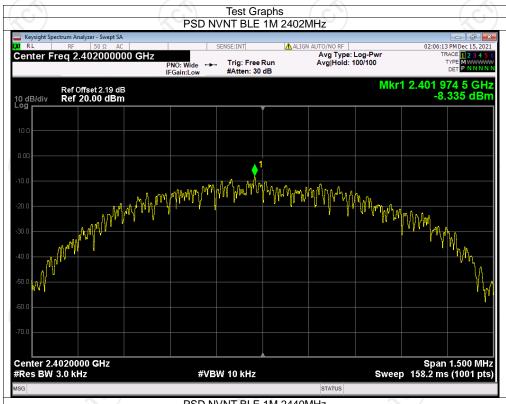






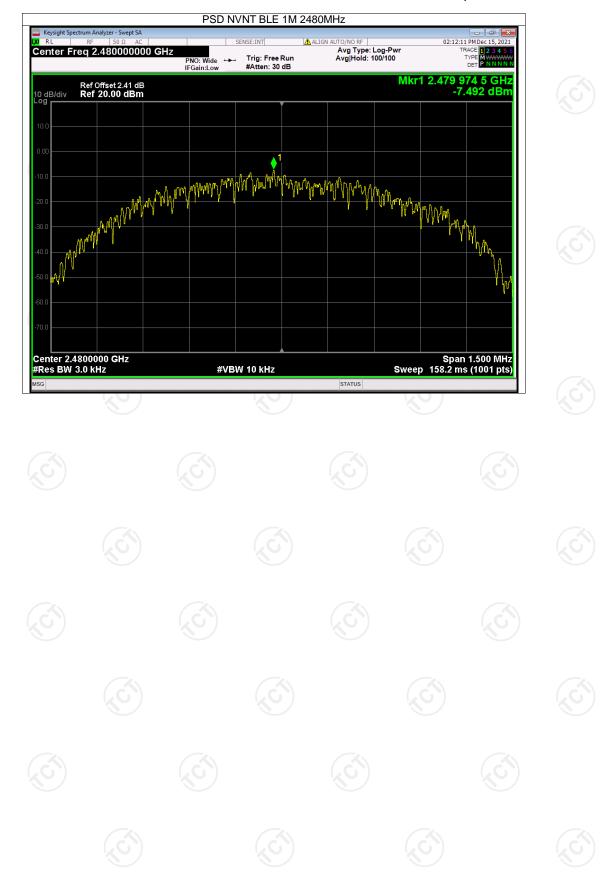
Maximum Power Spectral Density Level

Condition	Frequency (MHz)	Conducted PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	2402	-8.34	8	Pass
NVNT	2440	-7.72	8	Pass
NVNT	2480	-7.49	8	Pass





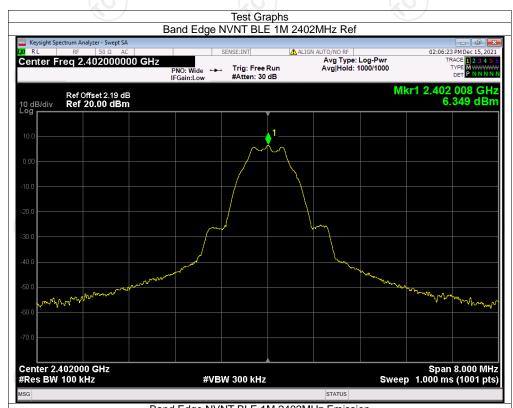


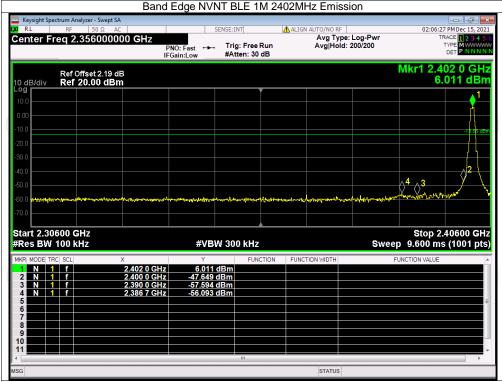




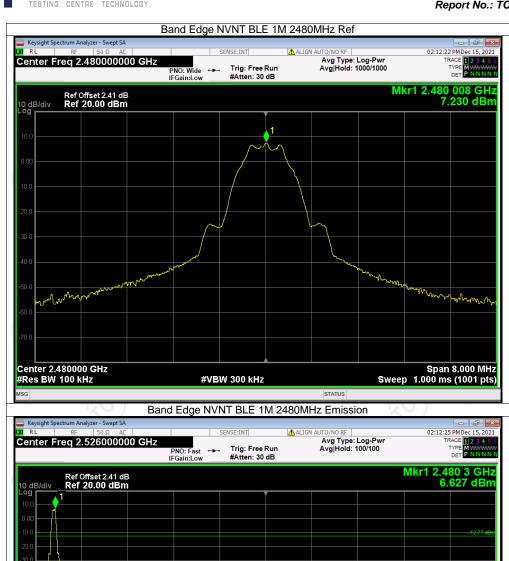
Band Edge

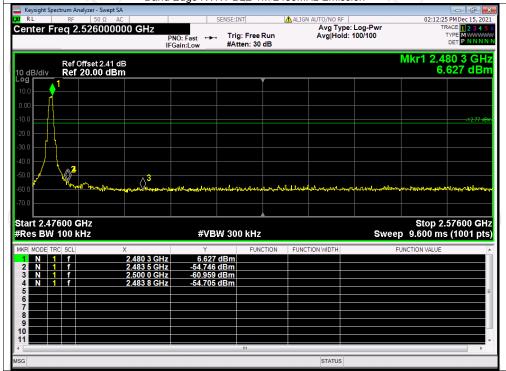
Condition	Frequency (MHz)	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	2402	-62.44	-20	Pass
NVNT	2480	-61.93	-20	Pass





TCT通测检测 testing centre technology



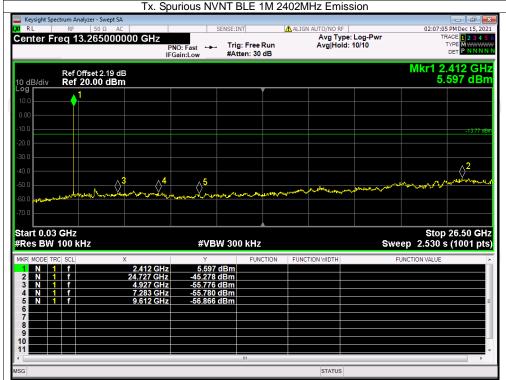




Conducted RF Spurious Emission

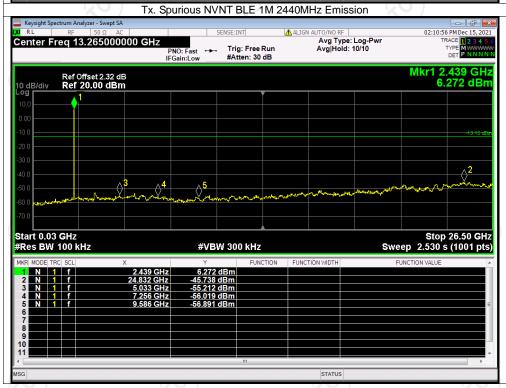
Condition	Frequency (MHz)	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	2402	-51.50	-20	Pass
NVNT	2440	-52.58	-20	Pass
NVNT	2480	-52.14	-20	Pass



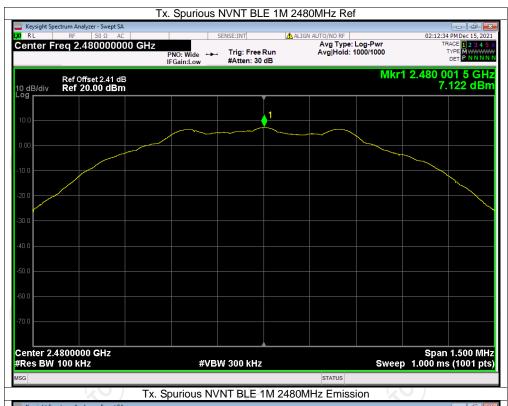


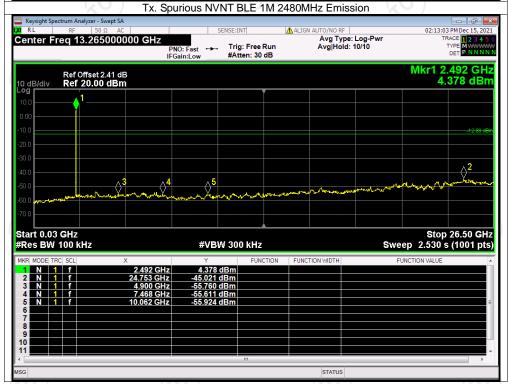
TCT通测检测 TESTING CENTRE TECHNOLOGY





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Appendix B: Photographs of Test Setup

Refer to the test report No. TCT211201E015

Appendix C: Photographs of EUT

Refer to the test report No. TCT211201E015

