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	TEST REPOR	۲۲			
FCC ID:	2ALNA-UC5501W				
Test Report No:	TCT210219E036				
Date of issue:	Sep. 02, 2021				
Testing laboratory::	SHENZHEN TONGCE TESTIN	NG LAB			
Testing location/ address:	TCT Testing Industrial Park Fuqiao 5th Industrial Zone, Fuhai Street, Bao'an District Shenzhen, Guangdong, 518103, People's Republic of China				
Applicant's name::	Shenzhen Thousandshores Te	chnology Co., Ltd.			
Address:	5/F, Chuangxin Building, Seven-star Creative Square, No.2North Alley, Chuangye 2nd Road, Bao'an Dis 28th, ShenZhen, 518000 China				
Manufacturer's name :	Shenzhen Thousandshores Te	chnology Co., Ltd.			
Address:	5/F, Chuangxin Building, Seven-star Creative Square, No.2North Alley, Chuangye 2nd Road, Bao'an Dis 28th, ShenZhen, 518000 China				
Standard(s):	FCC CFR Title 47 Part 15 Sub FCC KDB 558074 D01 15.247 ANSI C63.10:2013				
Test item description :	Humidifier				
Trade Mark:	Elechomes				
Model/Type reference :	UC5501W, SH8413W				
Rating(s):	AC 120V/60Hz				
Date of receipt of test item	Feb. 19, 2021				
Date (s) of performance of test:	See dates for each test case				
Tested by (+signature) :	Brave Zeng	Brave, leng, JONGCE,			
Check by (+signature) :	Beryl Zhao	Beny these to TCT			
Approved by (+signature):	Tomsin	Jomsin 100 5			
General disclaimer:					

General disclaimer:

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1. General Product Information

1.1. EUT description

Test item description:	Humidifier				
Model/Type reference:	UC5501W				
Sample Number:	TCT21021	9E036-010	1		
Bluetooth Version:	V4.2				
Operation Frequency:	2402MHz~	2480MHz			
Channel Separation:	2MHz			(\mathbf{c}^{*})	
Data Rate:	LE 1M PH	\mathcal{C}			
Number of Channel:	40				
Modulation Type:	GFSK		No.		
Antenna Type:	PCB Anten	na			
Antenna Gain:	2.5dBi				
Rating(s):	AC 120V/6	0Hz			
Remark:	1				

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

1.2. Mod	el(s) list	
No.	Model No.	Tested with
1	UC5501W	
Other models	SH8413W	

Note: UC5501W is tested model, other models are derivative models. The models are identical in circuit and PCB layout, only different on the model names. So the test data of UC5501W can represent the remaining models.

1.3. Operation Frequency

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency	
0	2402MHz	10	2422MHz	20	2442MHz	30	2462MHz	
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:	Remark: Channel 0, 19 & 39 have been tested.							

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2. Test Result Summary

Requirement	CFR 47 Section	Result
Antenna requirement	§15.203/§15.247 (c)	PASS
AC Power Line Conducted Emission	§15.207	PASS
Conducted Peak Output Power	§15.247 (b)(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:	25.0 °C	25.0 °C		
Humidity:	55 % RH	55 % RH		
Atmospheric Pressure:	1010 mbar	1010 mbar		
Test Software:				
Software Information:	RTLBTAPP			
Power Level:	Power Level: 7			
Test Mode:	· · · · · · · · · · · · · · · · · · ·			
Engineering mode:	Keep the EUT in continuous transmitting by select channel and modulations			

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.

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

Note:

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

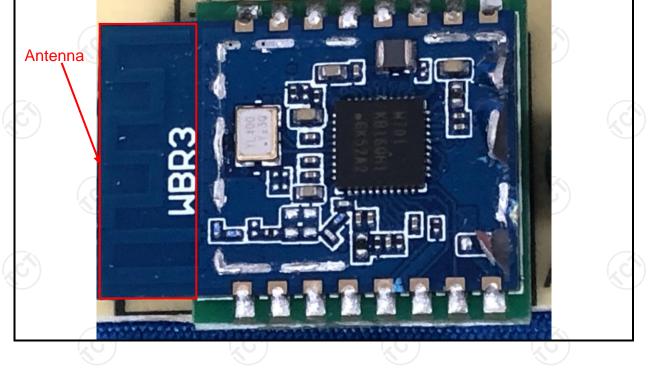
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit 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 Bluetooth antenna is PCB antenna which permanently attached, and the best case gain of the antenna is 2.5dBi.





5.2. Conducted Emission

5.2.1. Test Specification

Test Requirement:	FCC Part15 C Section	15.207					
Test Method:	ANSI C63.10:2013	ANSI C63.10:2013					
Frequency Range:	150 kHz to 30 MHz						
Receiver setup:	RBW=9 kHz, VBW=30 kHz, Sweep time=auto						
	Frequency range	Frequency range Limit (dBuV					
	(MHz)	Quasi-peak	Áverage				
Limits:	0.15-0.5	66 to 56*	56 to 46*				
	0.5-5	56	46				
	5-30	60	50				
	Refere	nce Plane					
Test Setup:	E.U.T Adap Test table/Insulation pla Remark: E.U.T: Equipment Under Test LISN: Line Impedence Stabilization Test table height=0.8m	ne					
Test Mode:	Charging + Transmittir	ng Mode	0				
Test Mode: Test Procedure:	 The E.U.T is connerimpedance stabilizy provides a 500hm/s measuring equipme The peripheral device power through a LI coupling impedance refer to the block photographs). Both sides of A.C. conducted interferer emission, the relative the interface cables 	cted to an adapte ation network 50uH coupling im nt. ces are also conne SN that provides with 50ohm term diagram of the line are checkence. In order to fir e positions of equ s must be chang	(L.I.S.N.). This pedance for the ected to the main a 500hm/50uh hination. (Please test setup and d for maximum d the maximum ipment and all o ed according to				
	 The E.U.T is connelimpedance stabilizing provides a 500hm/s measuring equipme The peripheral device power through a Licoupling impedance refer to the block photographs). Both sides of A.C. conducted interferent emission, the relative 	cted to an adapte ation network 50uH coupling im nt. ces are also conne SN that provides with 50ohm term diagram of the line are checkence. In order to fir e positions of equ s must be chang	(L.I.S.N.). This pedance for the ected to the main a 500hm/50uh hination. (Please test setup and d for maximun d the maximun ipment and all c ed according to				



Hotline: 400-6611-140 Tel: 86-755-27673339

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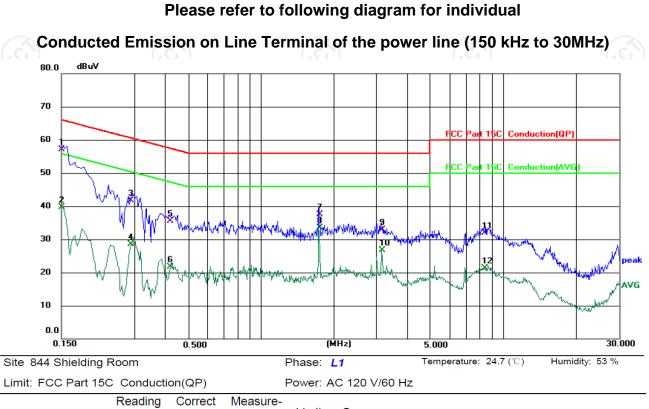
http://www.tct-lab.com

Fax: 86-755-27673332

5.2.2. Test Instruments

Conducted Emission Shielding Room Test Site (843)								
Equipment Manufacture		Equipment Manufacturer Model Serial Number		Calibration Due				
EMI Test Receiver	R&S	ESCI3	100898	Jul. 07, 2022				
Line Impedance Stabilisation Newtork(LISN)	Schwarzbeck	chwarzbeck NSLK 8126 81		Mar. 11, 2022				
Line-5	ТСТ	CE-05	N/A	Jul. 07, 2022				
EMI Test Software	Shurple Technology	EZ-EMC	N/A	N/A				

5.2.3. Test data



No.	Mk.	Freq.	Level	Factor	ment	Limit	Over		
		MHz	dBu∨	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.1500	47.43	9.61	57.04	66.00	-8.96	QP	
2		0.1500	30.11	9.61	39.72	56.00	-16.28	AVG	
3		0.2900	32.36	9.35	41.71	60.52	-18.81	QP	
4		0.2900	19.14	9.35	28.49	50.52	-22.03	AVG	
5		0.4180	26.25	9.24	35.49	57.49	-22.00	QP	
6		0.4180	12.49	9.24	21.73	47.49	-25.76	AVG	
7		1.7380	28. 1 5	9.36	37.51	56.00	-18.49	QP	
8		1.7380	24.22	9.36	33.58	46.00	-12.42	AVG	
9		3.1540	23.47	9.42	32.89	56.00	-23.11	QP	
10		3.1540	17.38	9.42	26.80	46.00	-19.20	AVG	
11		8.3340	22.35	9.58	31.93	60.00	-28.07	QP	
12		8.3340	11.80	9.58	21.38	50.00	-28.62	AVG	

Note:

NO	te:		
	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 μ V) = Limit stated in standard		
	Margin (dB) = Measurement (dB μ V) – Limits (dB μ V)		
	Q.P. =Quasi-Peak		
	AVG =average		
	* is meaning the worst frequency has been tested in the frequency range 150	kHz to 30MHz	

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TCT通测检测 TESTING CENTRE TECHNOLOGY Report No.: TCT210219E036 Conducted Emission on Neutral Terminal of the power line (150 kHz to 30MHz) dRuV 80.0 70 Conduction(QP) FICC 60 CC Conduction(AVG 50 40 3 30 Muser 10 20 12 AVG 10 0.0 0.150 (MHz) 30.000 0.500 5 000 Site 844 Shielding Room Phase: N Temperature: 24.7 (℃) Humidity: 53 % Limit: FCC Part 15C Conduction(QP) Power: AC 120 V/60 Hz Reading Correct Measure-Limit Over No. Mk. Freq. Level Factor ment MHz dBuV dB dBuV dBuV dB Detector Comment 0.1860 40.01 QP 9.59 49.60 64.21 -14.61 1 2 0.1860 24.41 9.59 34.00 54.21 -20.21 AVG 0.2860 31.29 40.62 60.64 -20.02 QP 3 9.33 0.2860 AVG 4 15.40 9.33 24.73 50.64 -25.91 QP 5 1.7340 32.10 9.41 41.51 56.00 -14.49 1.7340 30.94 40.35 46.00 -5.65 AVG 9.41 6 7 3.4660 22.40 9.53 31.93 56.00 -24.07 QP 3.4660 16.03 9.53 25.56 46.00 -20.44 AVG 8 22.19 9.58 31.77 60.00 -28.23 QP 8.6140 9 10 8.6140 11.30 9.58 20.88 50.00 -29.12 AVG 14.9980 60.00 -36.16 QP 11 14.19 9.65 23.84 12 14.9980 4.53 9.65 14.18 50.00 -35.82 AVG Note1: Freq. = Emission frequency in MHz Reading level $(dB\mu V) = Receiver reading$ Corr. Factor (dB) = LISN factor + Cable loss

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

Limit (dB μ V) = Limit stated in standard

Margin (dB) = Measurement (dB μ V) – Limits (dB μ V)

Q.P. =Quasi-Peak

AVG =average

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

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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 Manufactur		Manufacturer Model No. Serial Numbe		r 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

Test Requirement:	FCC Part15 C Section 15.247 (a)(2)
Test Method:	KDB 558074 D01 v05r02
Limit:	>500kHz
Test Setup:	Spectrum Analyzer EUT
Test Mode:	Refer to item 3.1
Test Procedure:	 Set to the maximum power setting and enable the EUT transmit continuously. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. Set the Video bandwidth (VBW) = 300 kHz. In order to make an accurate measurement. The 6dB bandwidth must be greater than 500 kHz. Measure and record the results in the test report.
Test Result:	PASS

5.4.2. Test Instruments

Name	Manufacturer	Model No.	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	N9020A	MY49100619	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.

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

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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 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 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. 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.
	5. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

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Model No.

N9020A

AT890-RFB

Serial Number

MY49100619

N/A

5.6.2. Test Instruments

Name Spectrum

Analyzer Combiner Box

Manufacturer

Agilent

Ascentest

Report No.: TCT210219E036

Calibration Due

Jul. 18, 2022

Jul. 07, 2022

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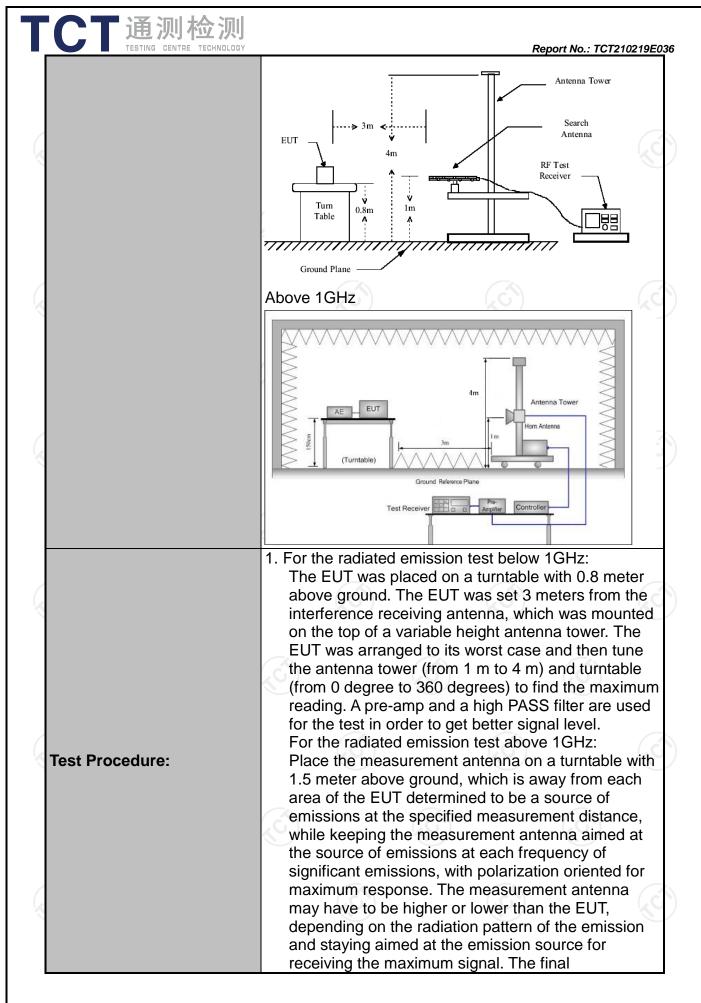
5.7. Radiated Spurious Emission Measurement

5.7.1. Test Specification

TCT通测检测 TESTING CENTRE TECHNOLOGY

Test Requirement:	FCC Part15 C Section 15.209					
Test Method:	ANSI C63.10: 2013					
Frequency Range:	9 kHz to 25 GHz					
Measurement Distance:	3 m	K			Sec. 1	
Antenna Polarization:	Horizontal & Vertical					
Operation mode:	Refer to item		6			
	Frequency 9kHz- 150kHz	Detector Quasi-pea		VBW 1kHz	Remark Quasi-peak Value	
Receiver Setup:	150kHz- 30MHz	Quasi-pea		30kHz	Quasi-peak Va	
	30MHz-1GHz	Quasi-pea		300KHz	Quasi-peak Va	
	Above 1GHz	Peak	1MHz	3MHz	Peak Value	
		Peak	1MHz	10Hz	Average Val	ue
	Frequen	су	Field Stro (microvolts		Measuremer Distance (mete	
	0.009-0.4		2400/F(KHz)		300	
Limit:	0.490-1.7	/	24000/F(KHz)		30	
	1.705-30 30-88		30		30 3	
	88-216		100 150		3	
	216-960		200		3	
	Above 960		500		3	1
	(¿G`)			<u>د</u> ن)		K
	Frequency		Field Strength (microvolts/meter)		rement ance Detector ters)	
			500	3	Averag	ge
	Above 1GHz	2	5000	3	Peak	<
Test setup:	For radiated emissions below 30MHz					
0.8m Turn table Im Ground Plane 30MHz to 1GHz					lecciver	

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CT 通测检测	
	 Report No.: TCT210219EC 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. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level 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. Use the following spectrum analyzer settings: Set RBW=120 kHz for f < 1 GHz; VBW ≥ RBW; Sweep = auto; Detector function = peak; Trace = max hold; 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 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 mode:	Refer to section 3.1 for details
Test results:	PASS

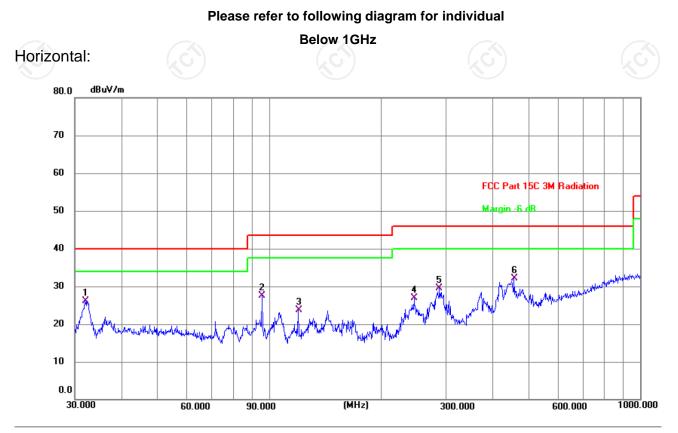
5.7.2. Test Instruments

Radiated Emission Test Site (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		

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5.7.3. Test Data

TCT通测检测 TESTING CENTRE TECHNOLOGY



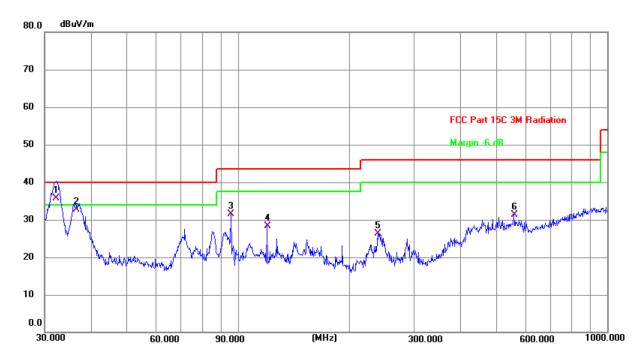
Site					Polar	ization:	Horiz	onta	Temperature: 24.6(C)
Limit:	FCC Part 15	C 3M Radi	ation		Power: AC 120 V/60 Hz				Humidity: 47 %
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1 *	31.9546	13.65	12.43	26.08	40.00	-13.92	QP	Ρ	
2	95.7622	17.53	9.89	27.42	43.50	-16.08	QP	Ρ	
3	119.8556	11.72	11.95	23.67	43.50	-19.83	QP	Ρ	
4	245.9509	14.29	12.71	27.00	46.00	-19.00	QP	Ρ	
5	287.9904	15.58	14.01	29.59	46.00	-16.41	QP	Ρ	
6	457.5073	13.54	18.48	32.02	46.00	-13.98	QP	Ρ	



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Report No.: TCT210219E036

Vertical:



Site					Polarization: Vertical					Temperature	e: 24.6(C)
Limit:	FCC Part 15	C 3M Radi	ation		Power: AC 120 V/60 Hz				Humidity:	47 %	
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark	(
1 *	32.1795	23.32	12.48	35.80	40.00	-4.20	QP	Ρ			
2	36.3814	19.32	13.41	32.73	40.00	-7.27	QP	Ρ			
3	95.7622	21.58	9.89	31.47	43.50	-12.03	QP	Ρ			
4	119.8556	16.26	11.95	28.21	43.50	-15.29	QP	Ρ			
5	239.1472	13.67	12.72	26.39	46.00	-19.61	QP	Ρ			
6	558.7301	10.82	20.49	31.31	46.00	-14.69	QP	Ρ			

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

2. Measurements were conducted in all three channels (high, middle, low), and the worst case Mode (Middle channel) was submitted only.

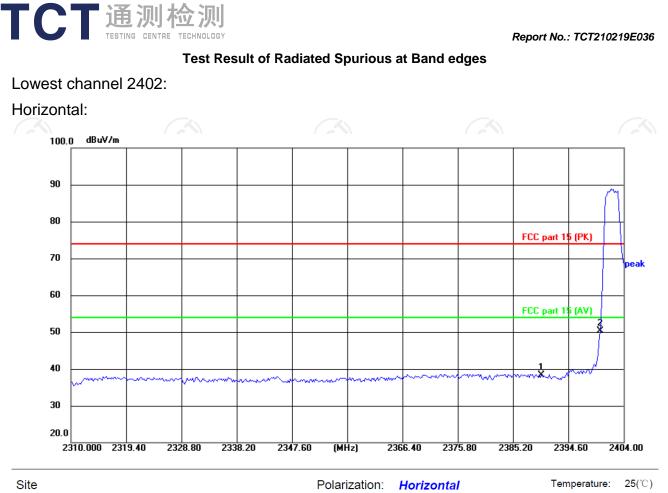
3. Freq. = Emission frequency in MHz

Measurement $(dB\mu V/m) = Reading level (dB\mu V) + Corr. Factor (dB)$ Correction Factor= Antenna Factor + Cable loss – Pre-amplifier Limit (dB μ V/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

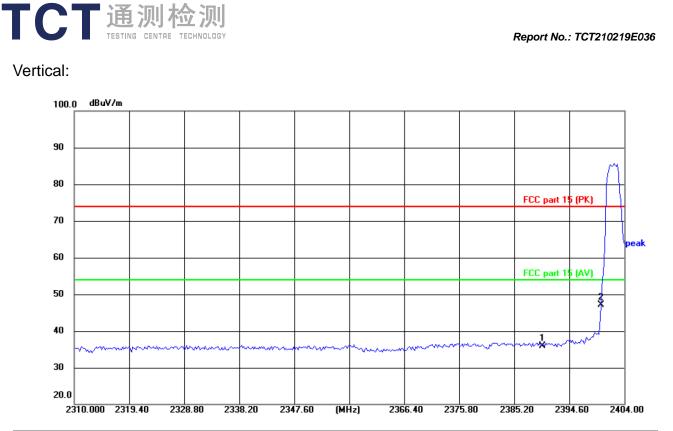
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Report No.: TCT210219E036



Site			Polariz	zation: Horizo	Tempera	ture: 25(℃)	
Limit: FC	CC part 15 (PK)		Power	: AC 120V/60Hz	Humidity	: 55 %	
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2390.000	51.42	-13.15	38.27	74.00	-35.73	peak
2 *	2400.000	<mark>63.4</mark> 2	-13.12	50.30	74.00	-23.70	peak

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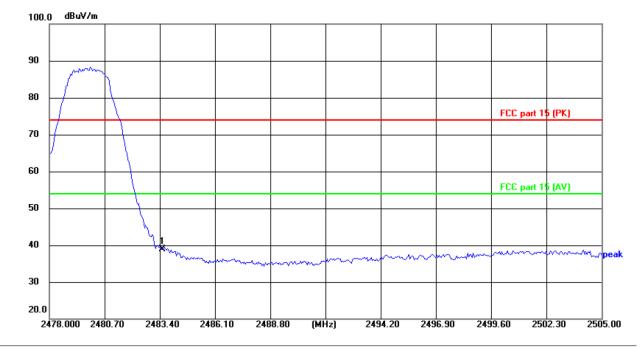


Site			Polariz		Temperat Humidity:		
Limit: F	Limit: FCC part 15 (PK)			Power: AC 120V/60Hz			
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2390.000	49.04	-13.15	35.89	74.00	-38.11	peak
2 *	2400.000	60.31	-13.12	47.19	74.00	-26.81	peak

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Highest channel 2480:

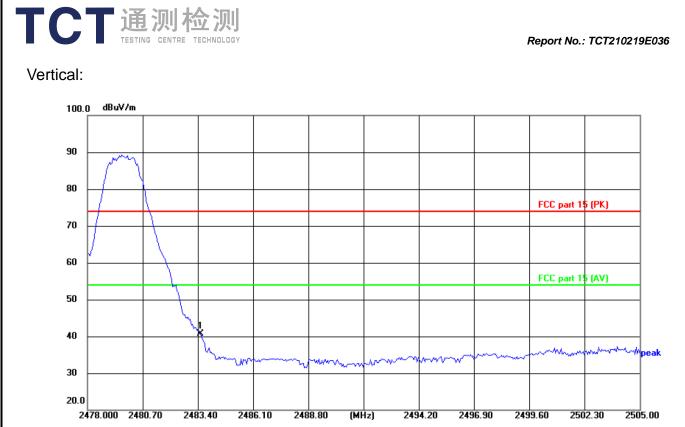
Horizontal:



Site	CC part 15 (PK)		Polariz	ation: Horizor : AC 120V/60Hz	ntal	Tempera Humidity:	
No.	Frequency (MHz)	Reading (dBuV)	FactorLevelLimit(dB/m)(dBuV/m)(dBuV/m)			Margin	Detector
1 *	2483.500	51.69	-12.84	38.85	74.00	-35.15	peak
(.G)	. (G)	(.G.))	(\mathbf{G})		(\mathbf{G})

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Report No.: TCT210219E036



Site			Polari	zation: Vertica	Tempera	ture: 25(℃)	
Limit: F	CC part 15 (PK)		Power	Humidity	: 55 %		
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	2483.500	53.53	-12.84	40.69	74.00	-33.31	peak







Above 1GHz

Low channe	el: 2402 N	IHz						
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBuV)	Correction Factor (dB/m)	Peak	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
4804	Н	46.13		0.66	46.79	 74	54	-7.21
7206	Н	36.98		9.50	46.48	 74	54	-7.52
	Н					 		
4804	V	46.29		0.66	46.95	 74	54	-7.05
7206	V	36.42		9.50	45.92	74	54	-8.08
	V							

Middle channel: 2440 MHz

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		,							
Frequency	Ant Pol	Peak	AV	Correction	Emissio	on Level	Peak limit	AV/ limit	Margin
(MHz)	H/V	reading (dBµV)	reading (dBµV)	Factor (dB/m)	Peak (dBµV/m)			(dBµV/m)	(dB)
4880	Н	42.95		0.99	43.94		74	54	-10.06
7320	Н	33.33		9.87	43.20		74	54	-10.80
	Н			·	(
			N.						
4880	V	43.87		0.99	44.86		74	54	-9.14
7320	V	34.51		9.87	44.38		74	54	-9.62
	V				····				

High channel: 2480 MHz

Frequency	Ant Pol	Peak		Correction	Emissic	on Level	Peak limit	ΔV limit	Margin
(MHz)	H/V	reading (dBµV)	reading (dBµV)	Factor (dB/m)	Peak (dBµV/m)			(dBµV/m)	(dB)
4960	Н	43.88	-6.0	1.33	45.21		74	54	-8.79
7440	H	35.24	-	10.22	45.46		74	54	-8.54
	Н								
4960	V	45.75		1.33	47.08		74	54	-6.92
7440	V	36.37		10.22	46.59		74	54	-7.41
J	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.

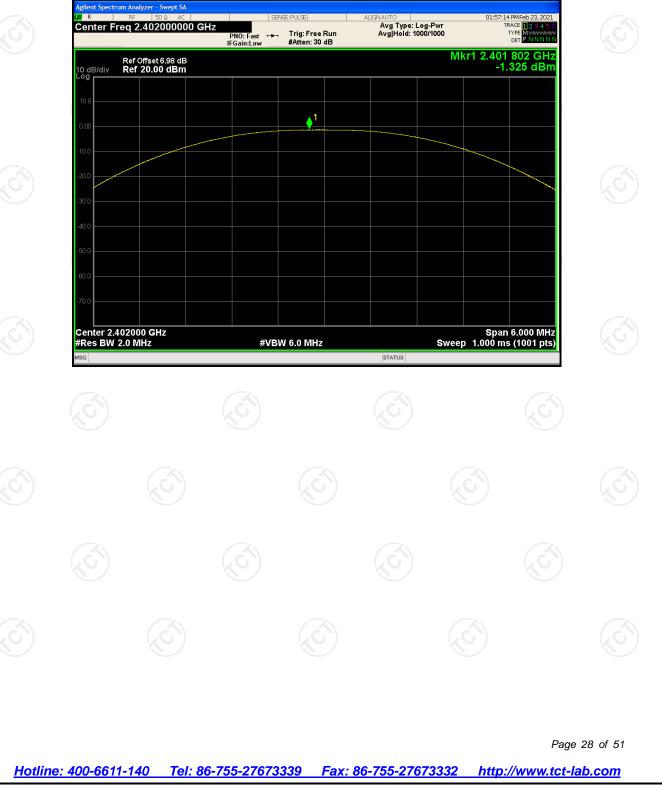
6. All the restriction bands are compliance with the limit of 15.209.



Appendix A: Test Result of Conducted Test

		Maximum Con	ducted Output Power		
Condition	Mode	Frequency (MHz)	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	BLE 1M	2402	-1.325	30	Pass
NVNT	BLE 1M	2440	-1.279	30	Pass
NVNT	BLE 1M	2480	-1.297	30	Pass
No.					

Power NVNT BLE 1M 2402MHz

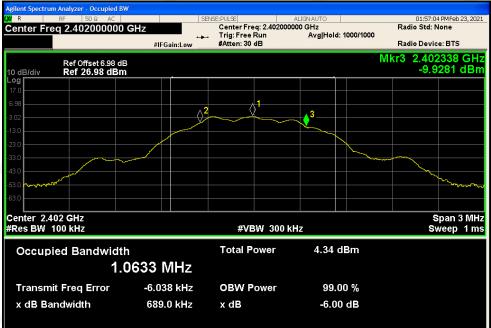


	nt Spectrum Analyzer - Swept SA	Z PNO: Fast IFGain:Low #Atten: 30 dB	ALIGNAUTO Avg Type: Log-Pwr n Avg Hold: 1000/1000	01:52:14 PMFeb 23, 2021 TRACE 1 2 3 4 5 6 TYPE M WARKAW DET P NNNNN	
10 d Log	Ref Offset 7.06 dB B/div Ref 20.00 dBm		M	kr1 2.439 844 GHz -1.279 dBm	
10.0					
0.00		↓ 1			
-10.0					
-20.0					
-30.0					
-50.0					
-60.0					
-70.0					
Cer #Re	nter 2.440000 GHz s BW 2.0 MHz	#VBW 6.0 MHz	Swee	Span 6.000 MHz p 1.000 ms (1001 pts)	
MSG	(₂ G`) P	ower NVNT BLE	IM 2480MHz	G`)	
LXI R	nt Spectrum Analyzer - Swept SA RF 50 Ω AC Nter Freq 2.480000000 GH	Z SENSE:PULSE	ALIGNAUTO Avg Type: Log-Pwr n Avg Hold: 1000/1000	01:54:10 PMFeb 23, 2021 TRACE 12 3 4 5 6 TYPE MWANAWAY DET P.N.N.N.N.N	
	Ref Offset 7.03 dB	PN0: Fast ↔→ Trig: Free Ru IFGain:Low #Atten: 30 dB		kr1 2.479 946 GHz	
10 d Log	B/div Ref 20.00 dBm			-1.297 dBm	
0.00		_ 1			
-10.0					
-20.0					
-30.0					
-40.0					
-50.0					
-70.0					
Cer	ter 2.480000 GHz	4\/D\// 6.0.04U-		Span 6.000 MHz p 1.000 ms (1001 pts)	
MSG	s BW 2.0 MHz	#VBW 6.0 MHz	SWEE	p 1.000 ms (1001 pts)	

		RE TECHNOLOGY		Report No.: TCT2	10219E036
		-	6dB Bandwidth		
Condition	Mode	Frequency	-6 dB Bandwidth	Limit -6 dB Bandwidth	Verdict
Condition	Mode	(MHz)	(MHz)	(MHz)	verdict
NVNT	BLE 1M	2402	0.689	0.5	Pass
NVNT	BLE 1M	2440	0.721	0.5	Pass
NVNT	BLE 1M	2480	0.711	0.5	Pass

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-6dB Bandwidth NVNT BLE 1M 2402MHz

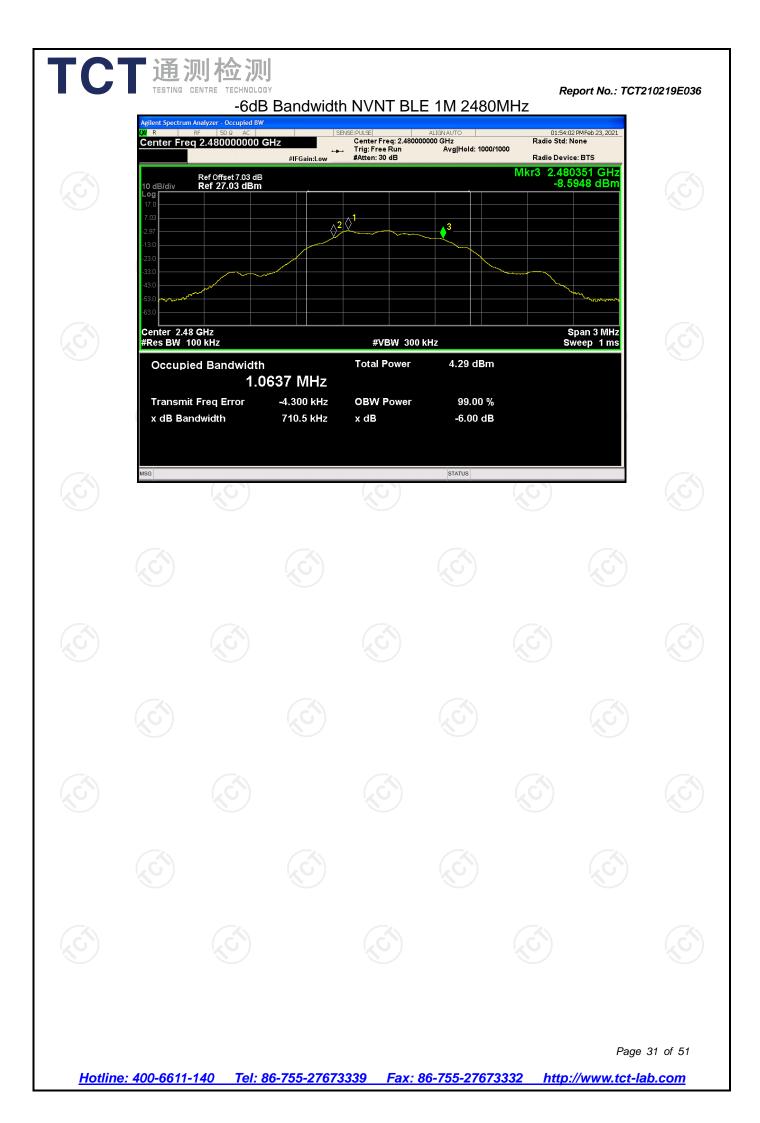


-6dB Bandwidth NVNT BLE 1M 2440MHz

STATUS



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Report No.: TCT210219E036 **Maximum Power Spectral Density Level** Max PSD Limit Frequency (MHz) Condition Mode Verdict (dBm/3KHz) (dBm/3KHz) **NVNT** BLE 1M 2402 -17.7368 Pass NVNT -18.470 8 BLE 1M 2440 Pass **NVNT** BLE 1M -16.870 8 Pass 2480

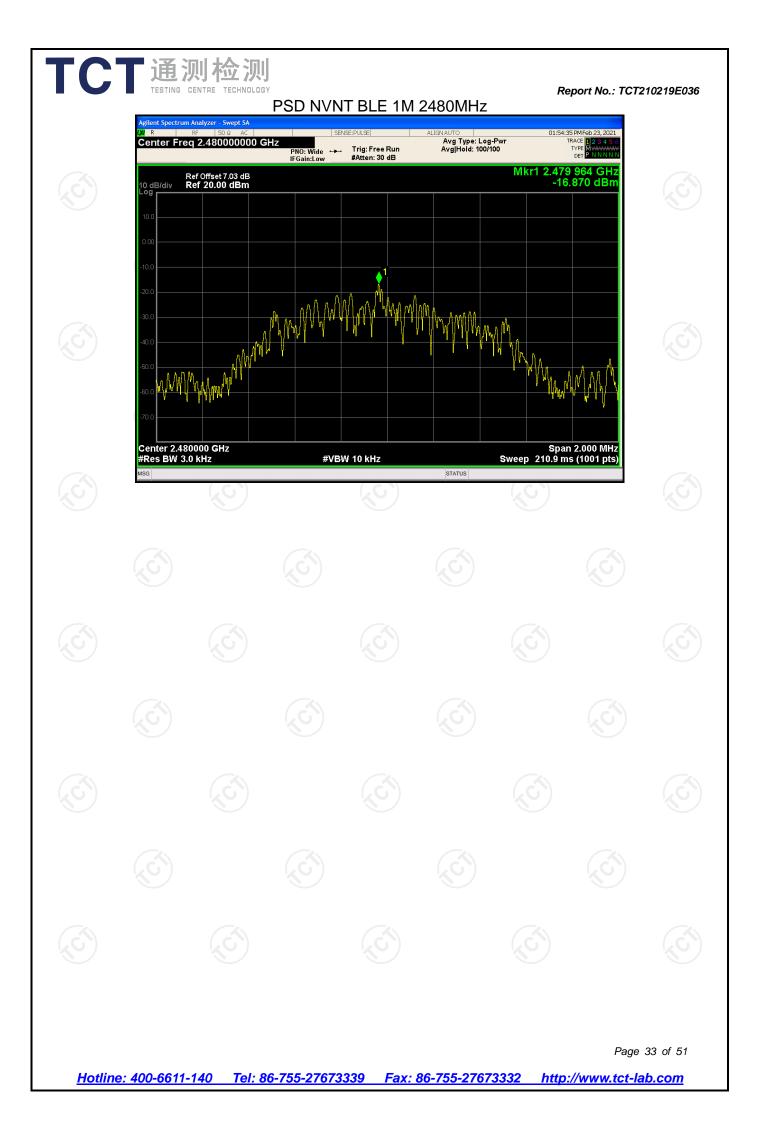
PSD NVNT BLE 1M 2402MHz

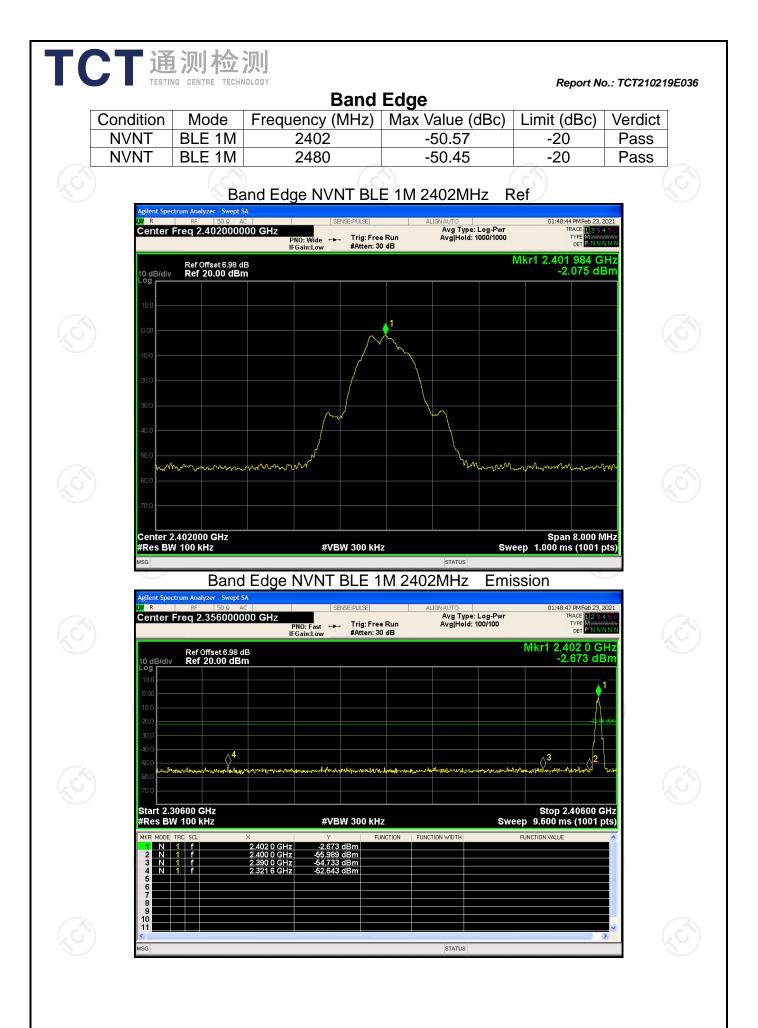


PSD NVNT BLE 1M 2440MHz

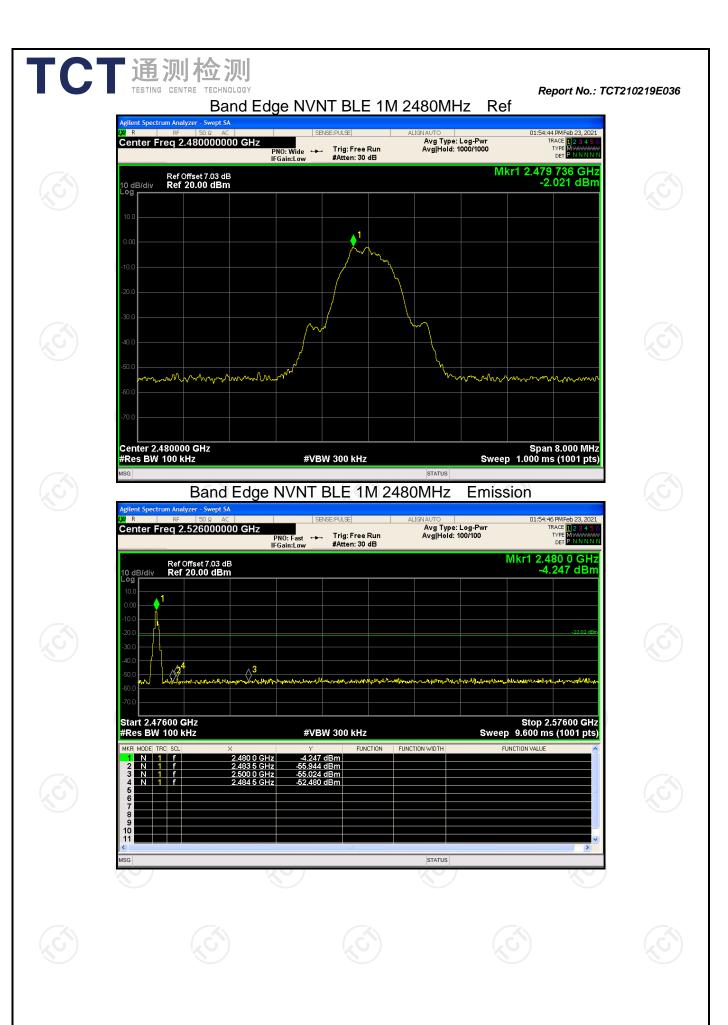


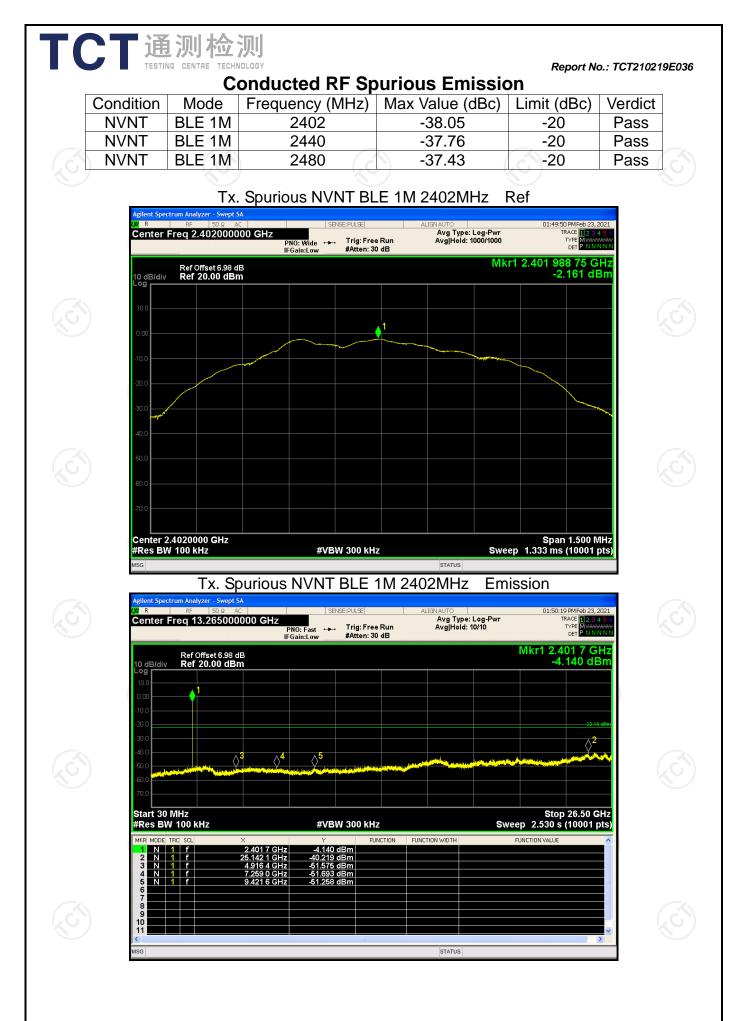
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Center Freq 2.440000000 G	HZ PNO: Wide → Trig: Free Run IFGain:Low #Atten: 30 dB	ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 1000/1000	01:52:51 PMFeb 23, 2021 TRACE 112 3 4 5 6 TYPE MMANAMAN DET P.N.N.N.N.N
Ref Offset 7.06 dB 10 dB/div Ref 20.00 dBm Log		Mkr1 2.4	139 989 95 GHz -2.088 dBm
10.0			
0.00			
-10.0			
-20.0			
-40.0			
-50.0			
-60.0			
Center 2.4400000 GHz			Span 1.500 MHz
#Res BW 100 kHz	#VBW 300 kHz	Sweep 1.: status	333 ms (10001 pts)
Tx. Spurie Agilent Spectrum Analyzer - Swept SA	ous NVNT BLE 1M 2	440MHz Emissi	on
078 R RF 50 Ω AC Center Freq 13.265000000 C	PNO: Fast +++ Trig: Free Run	ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 10/10	01:53:20 PMFeb 23, 2021 TRACE 1 2 3 4 5 6 TYPE MWWWW DET PINNNNN
Ref Offset 7.06 dB 10 dB/div Ref 20.00 dBm	IFGain:Low #Atten: 30 dB	Mk	r1 2.438 8 GHz -2.229 dBm
-10.0			-22.09.dBm
-30.0			\$ ²
-50.0			
Start 30 MHz #Res BW 100 kHz	#VBW 300 kHz	Sweep	Stop 26.50 GHz 2.530 s (10001 pts)
MKR MODE TRC SCL X	Y FUNCTION 8 GHz -2.229 dBm 4 GHz -39.859 dBm	-	ON VALUE
3 N 1 f 4.990 4 N 1 f 7.486 5 N 1 f 9.924	16 GHz 51.234 dBm 6 GHz 51.567 dBm 5 GHz 51.650 dBm		
6 7 8 9			
10 11 MSG		STATUS	×
			No.

	Freq 2.480000000 GH	Z PNO: Wide IFGain:Low KATCHING	ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 1000/1000	01:54:58 PMFeb 23, 2021 TRACE 12:34:56 TYPE MAXMANNA DET P. N.N.N.N.
10 dB/div	Ref Offset 7.03 dB Ref 20.00 dBm		Mkr1 2	479 991 60 GHz -2.142 dBm
10.0				
0.00				
-10.0				
-30.0				
-40.0				
-50.0				
-70.0				
	.4800000 GHz			Span 1.500 MHz
#Res BV	V 100 kHz	#VBW 300 kHz	STATUS	.333 ms (10001 pts)
	TX. Spurio trum Analyzer - Swept SA	UUS NVNT BLE 1M	2480MHz Emiss	01:55:27 PMFeb 23, 2021
	Freq 13.265000000 G		Avg Type: Log-Pwr Avg Hold: 10/10	TRACE 123456 TYPE MANANAN DET P N N N N
10 dB/div Log	Ref Offset 7.03 dB Ref 20.00 dBm		M	kr1 2.478 5 GHz -3.101 dBm
10.0 0.00	1			
-10.0				22.14 dBm
-30.0				
-30.0 -40.0 -50.0				
-40.0				
-40.0 -50.0 -60.0 -70.0 Start 30 #Res BV	MHz ¥ 100 kHz	#VBW 300 kHz	-	Stop 26.50 GHz 2.530 s (10001 pts)
-40.0 -50.0 -50.0 -70.0 Start 30 #Res BV MKR MODE 1 N 2 N	MHz V 100 kHz 1 f 2,478 5 1 f 2,478 5 1 f 4,887 2	#VBW 300 kHz GHz 3,101 dBm GHz -39,576 dBm GHz -51,916 dBm	· · · · · · · · · · · · · · · · · · ·	
-40.0 -50.0 -50.0 -70.0 Start 30 #Res BV MKR MODE 1 N 2 N 3 N 4 N 5 N 6 7	MHz V 100 kHz TRC SCL X 1 f 2.478 5 1 f 25.483 6	YEW State Function 300 GHz -33,101 dBm -39,576 dBm 300 GHz -39,576 dBm -39,576 dBm 300 GHz -51,916 dBm -51,395 dBm	-	2.530 s (10001 pts)
-40.0 -50.0 -70.0 Start 30 #Res BV MKR MOP 1 2 N 3 N 6	MHz V 100 KHz TRC SCL X 1 f 2.478 5 1 f 2.478 5 1 f 4.887 2 1 f 7.499 6	Y FUNCTION GHz -31.01 dBm GHz -39.576 dBm GHz -51.916 dBm GHz -51.395 dBm	-	2.530 \$ (10001 pts) TION VALUE
-40.0 -50.0 -60.0 -70.0 Start 30 #Res BV MKR MODE 1 N 2 N 3 N 4 N 5 N 4 N 5 N 6 6 7 7 8 9 9	MHz V 100 KHz TRC SCL X 1 f 2.478 5 1 f 2.478 5 1 f 4.887 2 1 f 7.499 6	Y FUNCTION GHz -31.01 dBm GHz -39.576 dBm GHz -51.916 dBm GHz -51.395 dBm	-	2.530 s (10001 pts)
-40.0 -50.0 -70.0 Start 30 #Res BV MKR MODE 1 N 3 N 4 N 4 N 5 N 6 6 7 7 8 9 10	MHz V 100 KHz TRC SCL X 1 f 2.478 5 1 f 2.478 5 1 f 4.887 2 1 f 7.499 6	Y FUNCTION GHz -31.01 dBm GHz -39.576 dBm GHz -51.916 dBm GHz -51.395 dBm	FUNCTION WIDTH FUNC	2.530 \$ (10001 pts) TION VALUE
-40.0 -50.0 -70.0 Start 30 #Res BV MKR MODE 1 N 3 N 4 N 5 N 6 7 7 8 9 10 1	MHz V 100 KHz TRC SCL X 1 f 2.478 5 1 f 2.478 5 1 f 4.887 2 1 f 7.499 6	Y FUNCTION GHz -31.01 dBm GHz -39.576 dBm GHz -51.916 dBm GHz -51.395 dBm	FUNCTION WIDTH FUNC	2.530 \$ (10001 pts) TION VALUE

