

	TEST REF	PORT	Γ						
FCC ID:	2BEQO-T11								
Test Report No::	TCT250226E022		(C)						
Date of issue::	Mar. 04, 2025	Mar. 04, 2025							
Testing laboratory:	SHENZHEN TONGCE	SHENZHEN TONGCE TESTING LAB							
Testing location/ address:	Fuhai Subdistrict, Bao'a	2101 & 2201, Zhenchang Factory, Renshan Industrial Zone, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, 518103, People's Republic of China							
Applicant's name::	SHENZHEN HAOCHEN	NG TECHI	NOLOGY CO	., LTD					
Address::		501, Main Building, Qiaocheng No.1 Plaza, No.2 shenyun Road, Gaofa Community, Shahe Street, Nanshan District, Shenzhen city, 518000 China							
Manufacturer's name:	SHENZHEN HAOCHEN	NG TECHI	NOLOGY CO	., LTD					
Address::	501, Main Building, Qia Gaofa Community, Sha city, 518000 China	_		•					
Standard(s):	FCC CFR Title 47 Part FCC KDB 558074 D01 ANSI C63.10:2020								
Product Name::	Smart Band								
Trade Mark:	N/A								
Model/Type reference:	T11								
Rating(s)::	Rechargeable Li-ion Ba	ttery DC 3	3.8V						
Date of receipt of test item:	Feb. 26, 2025	(6)		(C ¹)					
Date (s) of performance of test:	Feb. 26, 2025 ~ Mar. 04	4, 2025							
Tested by (+signature) :	Yannie ZHONG		Yannie ?	MECEZE					
Check by (+signature):	Beryl ZHAO		Boyl 2	CT)					
Approved by (+signature):	Tomsin		Joms in s	84					

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1. General Product Information

1.1. EUT description

Product Name:	Smart Band		
Model/Type reference:	T11		
Sample Number:	TCT250226E021-0101		
Bluetooth Version:	V5.3 (This report is for BLE)		
Operation Frequency:	2402MHz~2480MHz		
Channel Separation:	2MHz	(C)	
Data Rate:	LE 1M PHY, LE 2M PHY		
Number of Channel:	40		
Modulation Type:	GFSK		
Antenna Type:	Internal Antenna		
Antenna Gain:	-9.13dBi	(c_i)	
Rating(s):	Rechargeable Li-ion Battery DC	3.8V	

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

None.

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: 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.



CENTRE TECHNOLOGY Report No.: TCT250226E022

3. General Information

3.1. Test environment and mode

Operating Environment:							
Condition	Conducted Emission	Radiated Emission					
Temperature:	22.8 °C	23.9 °C					
Humidity:	49 % RH	53 % RH					
Atmospheric Pressure:	1010 mbar	1010 mbar					
Test Software:							
Software Information:	FCC Assist 1.0.4						
Power Level:	Default						
Test Mode:							
Engineer mode:	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
Adapter	EP-TA200	R37M4PR7QD4SE3		SAMSUNG

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.

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4. Facilities and Accreditations

4.1. Facilities

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

FCC - Registration No.: 645098

SHENZHEN TONGCE TESTING LAB

Designation Number: CN1205

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

IC - Registration No.: 10668A

SHENZHEN TONGCE TESTING LAB

CAB identifier: CN0031

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

4.2. Location

SHENZHEN TONGCE TESTING LAB

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

TEL: +86-755-27673339

4.3. Measurement Uncertainty

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

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



5. Test Results and Measurement Data

5.1. Antenna requirement

Standard requirement:

FCC Part15 C Section 15.203 /247(c)

15.203 requirement:

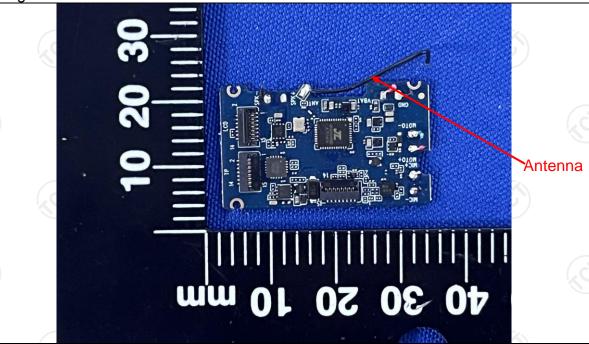
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit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

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

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

E.U.T Antenna:

The Bluetooth antenna is internal antenna which permanently attached, and the best case gain of the antenna is -9.13dBi.



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5.2. Conducted Emission

5.2.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.207							
Test Method:	ANSI C63.10:2020							
Frequency Range:	150 kHz to 30 MHz	<u>(1)</u>						
Receiver setup:	RBW=9 kHz, VBW=30 kHz, Sweep time=auto							
Limits:	Frequency range (MHz) 0.15-0.5 0.5-5 5-30	dBuV) Average 56 to 46* 46 50						
Test Setup:	40cm E.U.T AC power Filter AC power Filter AC power Filter AC power EMI Receiver E.U.T. Equipment Under Test LISN Line Impedence Stabilization Network Test table height=0.8m							
Test Mode:	Charging + Transmittin	g Mode						
Test Procedure:	 The E.U.T is connected to an adapter 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 C63.10:2020 on conducted measurement. 							
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	Jun. 26, 2025					
LISN	Schwarzbeck	NSLK 8126	8126453	Jan. 20, 2026					
Attenuator	N/A	10dB	164080	Jun. 26, 2025					
Line-5	TCT	CE-05	/	Jun. 26, 2025					
EMI Test Software	EZ_EMC	EMEC-3A1	1.1.4.2	/ (6					

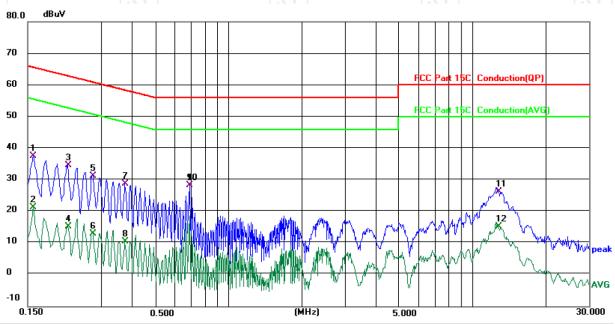




5.2.3. Test data

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: 22.8 (℃)

Humidity: 49 %

Limit: FCC Part 15C Conduction(QP)

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

No. Mi	c. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
	MHz	dBu∨	dB	dBu∀	dBu∀	dB	Detector	Comment
1	0.1580	27.63	9.95	37.58	65.57	-27.99	QP	
2	0.1580	11.43	9.95	21.38	55.57	-34.19	AVG	
3	0.2180	24.65	9.92	34.57	62.89	-28.32	QP	
4	0.2180	5.46	9.92	15.38	52.89	-37.51	AVG	
5	0.2779	21.45	9.94	31.39	60.88	-29.49	QP	
6	0.2779	3.03	9.94	12.97	50.88	-37.91	AVG	
7	0.3740	18.85	9.93	28.78	58.41	-29.63	QP	
8	0.3740	0.62	9.93	10.55	48.41	-37.86	AVG	
9 *	0.6900	18.42	9.90	28.32	56.00	-27.68	peak	
10	0.6900	18.42	9.90	28.32	56.00	-27.68	QP	
11	12.7739	16.01	10.36	26.37	60.00	-33.63	QP	
12	12.7739	4.91	10.36	15.27	50.00	-34.73	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

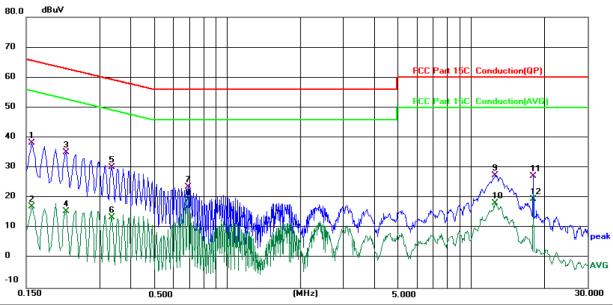
AVG =average

^{*} 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: 22.8 (℃)

Humidity: 49 %

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		0.1580	28.28	9.94	38.22	65.57	-27.35	QP	
2		0.1580	7.26	9.94	17.20	55.57	-38.37	AVG	
3		0.2179	25.17	9.93	35.10	62.90	-27.80	QP	
4		0.2179	5.59	9.93	15.52	52.90	-37.38	AVG	
5		0.3339	20.30	9.93	30.23	59.35	-29.12	QP	
6		0.3339	3.65	9.93	13.58	49.35	-35.77	AVG	
7		0.6900	13.71	9.94	23.65	56.00	-32.35	QP	
8	*	0.6900	9.43	9.94	19.37	46.00	-26.63	AVG	
9		12.5700	17.16	10.41	27.57	60.00	-32.43	QP	
10		12.5700	7.88	10.41	18.29	50.00	-31.71	AVG	
11		17.9660	16.63	10.58	27.21	60.00	-32.79	QP	
12		17.9660	9.04	10.58	19.62	50.00	-30.38	AVG	

Note1:

Freg. = 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

Note2: Speed for 1M and 2M modulations of EUT have been tested, but the test data only show the worst case in this report, and we found the worst case is 2M speed modulation. Measurements were conducted in all three channels (high, middle, low), and the worst case Mode (Middle channel) was submitted only.

^{*} 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)	C					
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	Jun. 26, 2025
Combiner Box	Ascentest	AT890-RFB	1	1

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5.4. Emission Bandwidth

5.4.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (a)(2)
Test Method:	(DB 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 (S)

5.4.2. Test Instruments

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







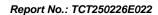
5.5. Power Spectral Density

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. 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	Jun. 26, 2025
Combiner Box	Ascentest	AT890-RFB	/	/





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 backers. 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 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. 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					

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5.6.2. Test Instruments

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



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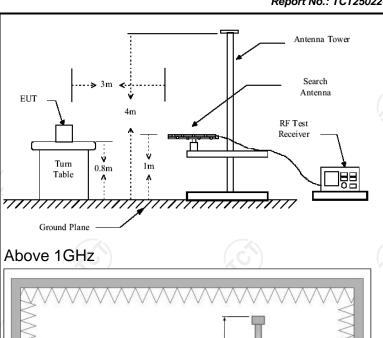


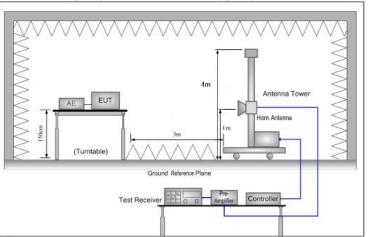
5.7. Radiated Spurious Emission Measurement

5.7.1. Test Specification

Test Requirement:	FCC Part15	FCC Part15 C Section 15.209							
Test Method:	ANSI C63.10	0:2020							
Frequency Range:	9 kHz to 25 GHz								
Measurement Distance:	3 m								
Antenna Polarization:	Horizontal & Vertical								
Operation mode:	Refer to item 3.1								
	Frequency 9kHz- 150kHz	Detector Quasi-peak	RBW 200Hz	VBW 1kHz	Remark Quasi-peak Value				
Receiver Setup:	150kHz- 30MHz	Quasi-peal	9kHz	30kHz	Quasi-peak Value				
	30MHz-1GHz	Quasi-peal		300KHz	Quasi-peak Value				
	Above 1GHz	Peak	1MHz	3MHz	Peak Value				
		Peak	1MHz	10Hz	Average Value				
	Frequen	ncy	Field Stro (microvolts	-	Measurement Distance (meters)				
	0.009-0.490		2400/F(KHz)	300				
	0.490-1.705		24000/F(KHz)		30				
	1.705-30		30		30				
	30-88		100		3				
Limit:	88-216		150 200		3				
Lilling.	216-960 Above 960		500		3				
	7,0000								
	Frequency		Field Strength (microvolts/meter)		ment ice Detector rs)				
	Above 1GHz	z	500 5000	3	Average Peak				
Test setup:	For radiated emissions below 30MHz Distance = 3m Computer Pre -Amplifier								
	30MHz to 10	Turn table Ground	1m		Receiver				







1. For the radiated emission test below 1GHz:

Test Procedure:

The EUT was placed on a turntable with 0.8 meter above ground. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high PASS filter are used for the test in order to get better signal level. For the radiated emission test above 1GHz: Place the measurement antenna on a turntable with 1.5 meter above ground, which is away from each area of the EUT determined to be a source of emissions at the specified measurement distance. while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final





	100
	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: (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 loss than 98 percent.
	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 mode:	Refer to section 3.1 for details
Test results:	PASS (6)







5.7.2. Test Instruments

	Radiated Emission Test Site (966)							
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due				
EMI Test Receiver	R&S	ESCI7	100529	Jan. 20, 2026				
Spectrum Analyzer	R&S	FSQ40	200061	Jun. 26, 2025				
Pre-amplifier	SKET	LNPA_0118G- 45	SK2021012 102	Jan. 20, 2026				
Pre-amplifier	SKET	LNPA_1840G- 50	SK2021092 03500	Jan. 20, 2026				
Pre-amplifier	HP	8447D	2727A05017	Jun. 26, 2025				
Loop antenna	Schwarzbeck	FMZB1519B	00191	Jun. 26, 2025				
Broadband Antenna	Schwarzbeck	VULB9163	340	Jun. 28, 2025				
Horn Antenna	Schwarzbeck	BBHA 9120D	631	Jun. 28, 2025				
Horn Antenna	Schwarzbeck	BBHA 9170	00956	Jan. 22, 2026				
Coaxial cable	SKET	RE-03-D	/	Jun. 26, 2025				
Coaxial cable	SKET	RE-03-M) /	Jun. 26, 2025				
Coaxial cable	SKET	RE-03-L	/	Jun. 26, 2025				
Coaxial cable	SKET	RE-04-D		Jun. 26, 2025				
Coaxial cable	SKET	RE-04-M		Jun. 26, 2025				
Coaxial cable	SKET	RE-04-L	/	Jun. 26, 2025				
Antenna Mast	Keleto	RE-AM	1	(SY				
EMI Test Software	EZ_EMC	FA-03A2 RE+	1.1.4.2					

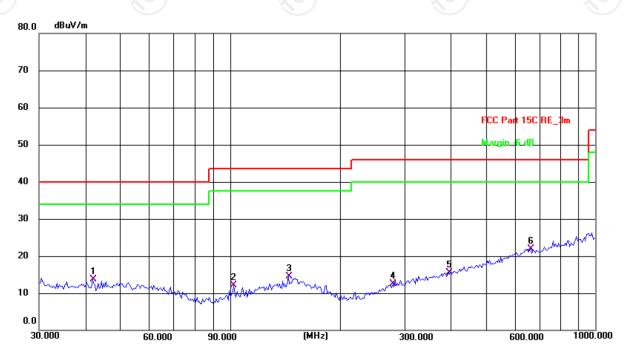


5.7.3. Test Data

Please refer to following diagram for individual

Below 1GHz

Horizontal:



Site: 3m Anechoic Chamber1 Polarization: Horizontal Temperature: 23.9(C) Humidity: 53 %

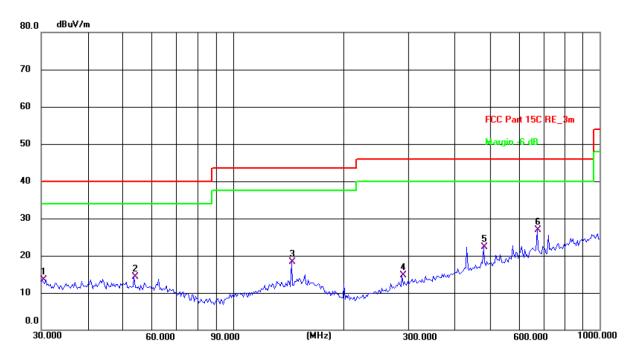
Limit: FCC Part 15C RE_3m Power: DC 3.8 V

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector	P/F	Remark
1	42.0066	25.87	-12.12	13.75	40.00	-26.25	QP	Р	
2	102.3596	27.15	-15.10	12.05	43.50	-31.45	QP	Р	
3	144.3347	26.52	-11.92	14.60	43.50	-28.90	QP	Р	
4	279.0436	24.46	-12.01	12.45	46.00	-33.55	QP	Р	
5	396.2415	24.79	-9.28	15.51	46.00	-30.49	QP	Р	
6 *	665.8034	26.04	-4.06	21.98	46.00	-24.02	QP	Р	





Vertical:



Site: 3m Anechoic Chamber1 Polarization: Vertical Temperature: 23.9(C) Humidity: 53 %

Limit: FCC Part 15C RE 3m

Power: DC 3.8 V

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector	P/F	Remark
1	30.2111	26.44	-12.88	13.56	40.00	-26.44	QP	Р	
2	53.6932	26.91	-12.52	14.39	40.00	-25.61	QP	Р	
3	144.3348	30.25	-11.92	18.33	43.50	-25.17	QP	Р	
4	289.0021	26.00	-11.39	14.61	46.00	-31.39	QP	Р	
5	482.2156	30.31	-7.91	22.40	46.00	-23.60	QP	Р	
6 *	675.2080	31.19	-4.33	26.86	46.00	-19.14	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. Speed for 1M and 2M modulations of EUT have been tested, but the test data only show the worst case in this report, and we found the worst case is 2M speed modulation. 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 (dBµV/m) = Limit stated in standard

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

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

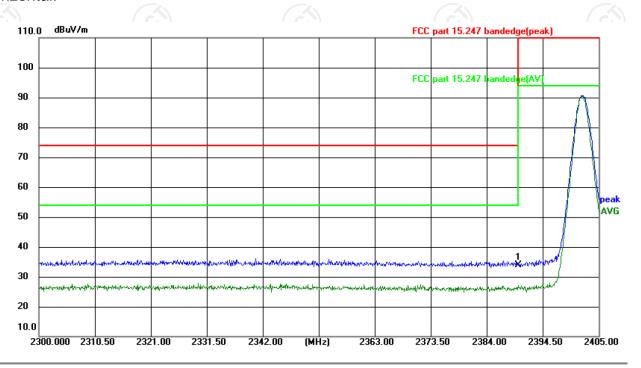
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Test Result of Radiated Spurious at Band edges

Lowest channel 2402:

Horizontal:



Site: 3m Anechoic Chamber Polarization: Horizontal Temperature: 24.7(°C) Humidity: 50 %

Limit: FCC part 15.247 bandedge(peak)

Power:DC 3.8 V

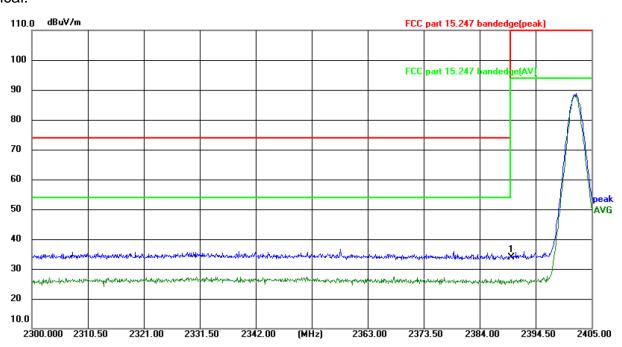
No.	Frequency (MHz)	Reading (dBuV)	1	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1 *	2390.000	50.69	-16.76	33.93	74.00	-40.07	peak	Р	





Vertical:

Report No.: TCT250226E022



Site: 3m Anechoic Chamber Polarization: Vertical Temperature: 24.7(°C) Humidity: 50 %

Limit: FCC part 15.247 bandedge(peak)

Power:DC 3.8 V

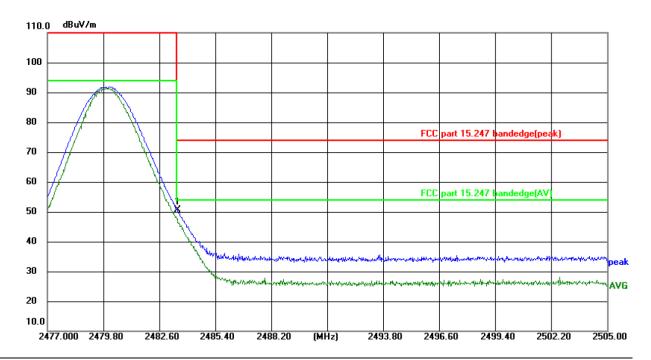
No.	Frequency (MHz)	Reading (dBuV)		Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1 *	2390.000	50.63	-16.76	33.87	74.00	-40.13	peak	Р	





Highest channel 2480:

Horizontal:



Site: 3m Anechoic Chamber Polarization: Horizontal Temperature: 24.7(°C) Humidity: 50 %

Limit: FCC part 15.247 bandedge(peak)

Power:DC 3.8 V

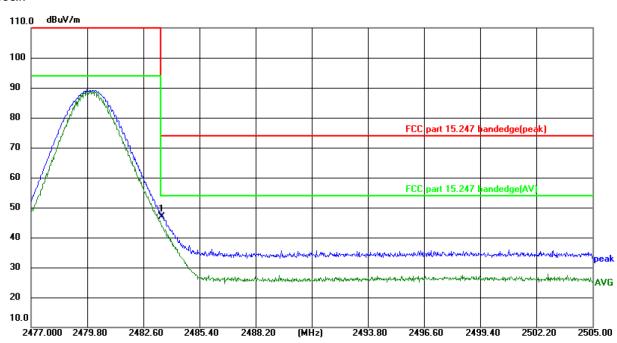
No.	Frequency (MHz)			Level (dBuV/m)		Margin (dB)	Detector	P/F	Remark
1 *	2483.500	67.23	-16.50	50.73	74.00	-23.27	peak	Р	





Vertical:

Report No.: TCT250226E022



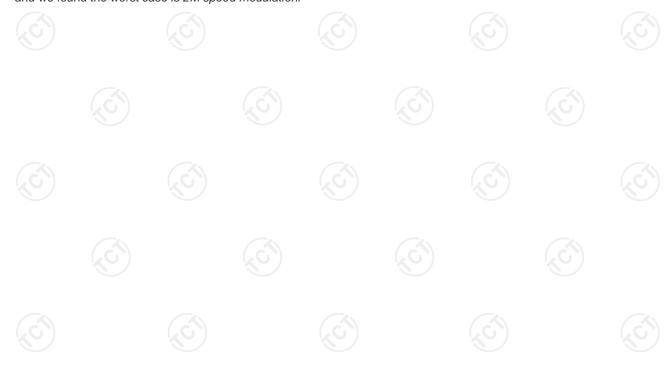
Site: 3m Anechoic Chamber Polarization: Vertical Temperature: 24.7(°C) Humidity: 50 %

Limit: FCC part 15.247 bandedge(peak)

Power:DC 3.8 V

No.	Frequency (MHz)	Reading (dBuV)		Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1 *	2483.500	63.27	-16.50	46.77	74.00	-27.23	peak	Р	

Note: Speed for 1M and 2M modulations of EUT have been tested, but the test data only show the worst case in this report, and we found the worst case is 2M speed modulation.





Above 1GHz

Low char	nnel: 2402	MHz							
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	55.52		-9.51	46.01		74	54	-7.99
7206	Н	45.77		-1.41	44.36		74	54	-9.64
	Н								
4804	V	56.65		-9.51	47.14	Z	74	54	-6.86
7206	V	46.02	420	-1.41	44.61	(C) } -	74	54	-9.39
	V					<u></u>			

Middle cha	nnel: 2440) MHz							
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)	Peak	A \ /	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
4880	Η	55.34		-9.36	45.98		74	54	-8.02
7320	Η	46.16		-1.15	45.01		74	54	-8.99
	Н				/				
Į.	(0)		KO		1	(0)		(0)	
4880	V	54.62]	-9.36	45.26)	74	54	-8.74
7320	V	45.05		-1.15	43.90		74	54	-10.10
	V	==,.			-/-				

High chann	nel: 2480 N	ЛНz							
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	Н	55.96	- (-c)	-9.20	46.76	. ()	74	54	-7.24
7440	Н	45.47		-0.96	44.51	<i></i>	74	54	-9.49
	Н								
4960	V	54.08		-9.20	44.88		74	54	-9.12
7440	V	44.05		-0.96	43.09		74	54	-10.91
<u></u>	V	<u></u>			<i>/</i>		 /		

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. Speed for 1M and 2M modulations of EUT have been tested, but the test data only show the worst case in this report, and we found the worst case is 2M speed modulation.
- 7. All the restriction bands are compliance with the limit of 15.209.



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Appendix A: Test Result of Conducted Test

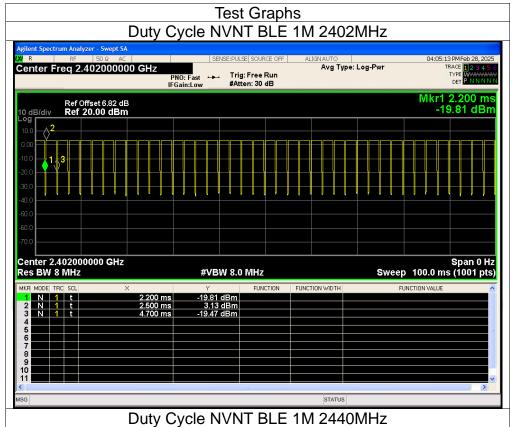
Du	tv	Cv	cle	
	- ,			

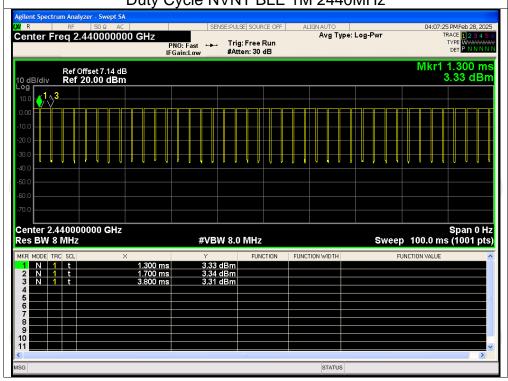
Condition	Mode	Frequency (MHz)	Duty Cycle (%)	Correction Factor (dB)
NVNT	BLE 1M	2402	92.01	0.36
NVNT	BLE 1M	2440	88.01	0.55
NVNT	BLE 1M	2480	92.01	0.36
NVNT	BLE 2M	2402	47.95	3.19
NVNT	BLE 2M	2440	47.95	3.19
NVNT	BLE 2M	2480	43.96	3.57





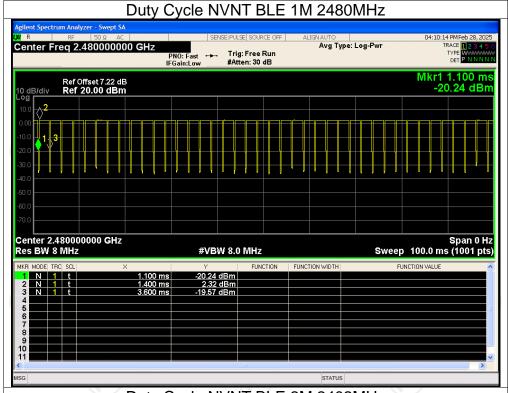


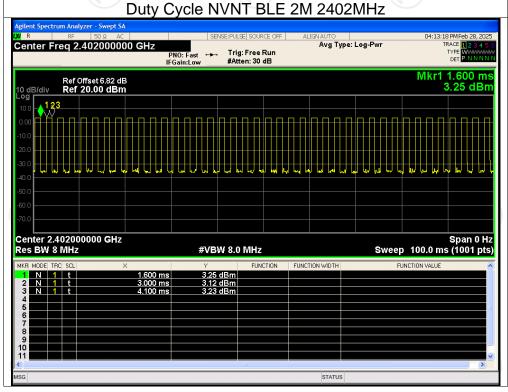






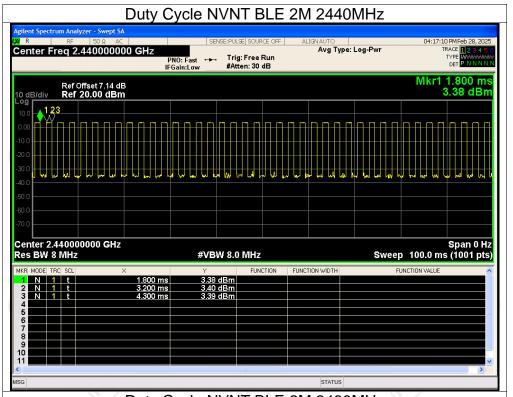


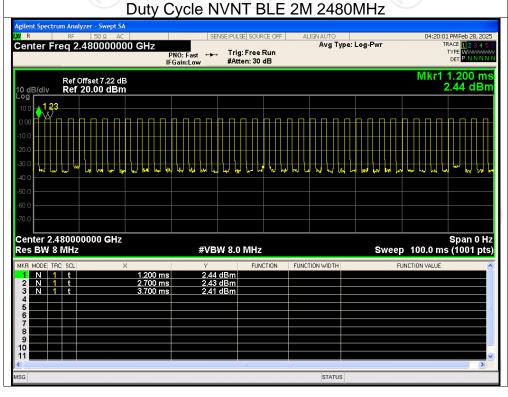








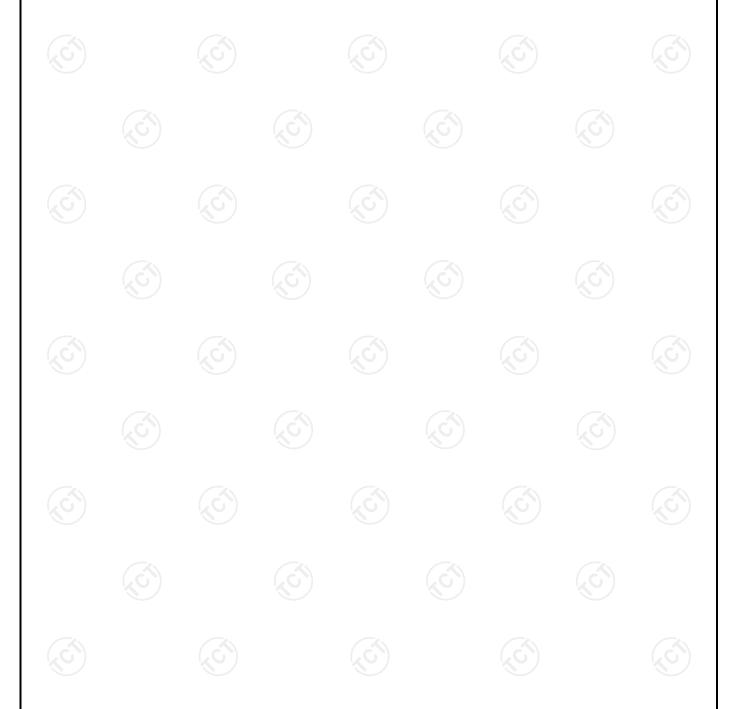






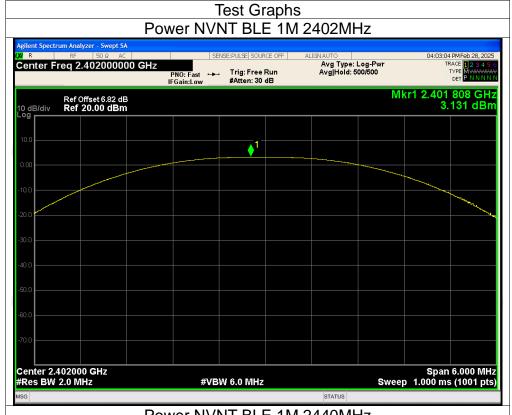
Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	BLE 1M	2402	3.13	30	Pass
NVNT	BLE 1M	2440	3.27	30	Pass
NVNT	BLE 1M	2480	2.18	30	Pass
NVNT	BLE 2M	2402	3.12	30	Pass
NVNT	BLE 2M	2440	3.27	30	Pass
NVNT	BLE 2M	2480	2.34	30	Pass







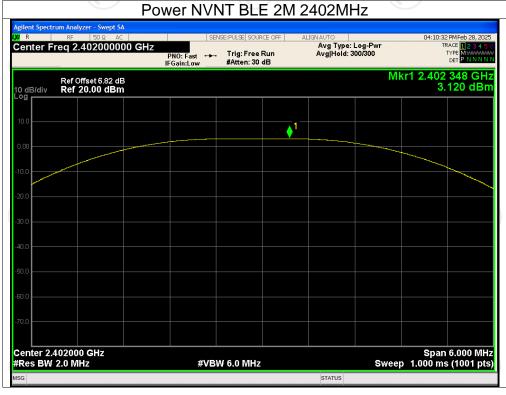


| Power NVNT BLE 1M 2440MHz | Sense Pulse | Source OF | ALIGNAUTO | O4.05:34 PMFeb 29, 2025 | O4





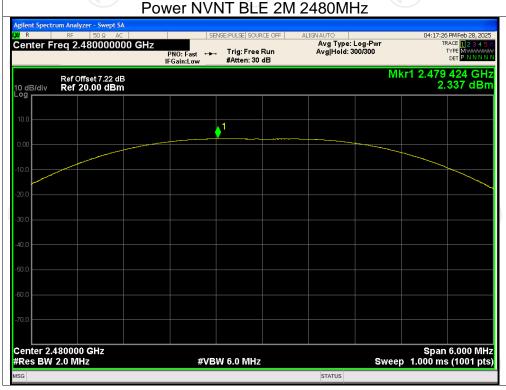








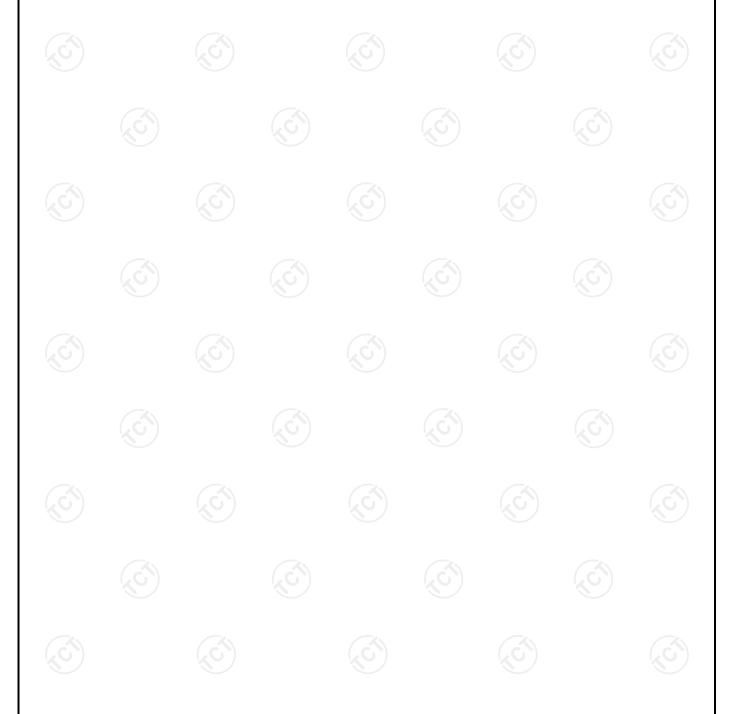






-6dB Bandwidth

Condition	Mode	Frequency (MHz)	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	BLE 1M	2402	0.667	0.5	Pass
NVNT	BLE 1M	2440	0.655	0.5	Pass
NVNT	BLE 1M	2480	0.662	0.5	Pass
NVNT	BLE 2M	2402	1.145	0.5	Pass
NVNT	BLE 2M	2440	1.158	0.5	Pass
NVNT	BLE 2M	2480	1.153	0.5	Pass







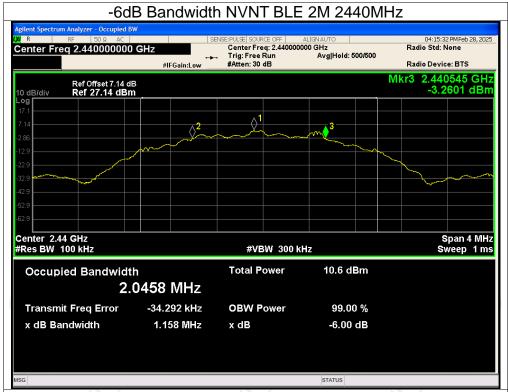


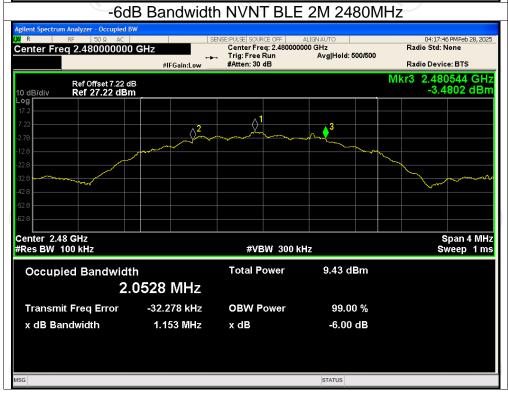








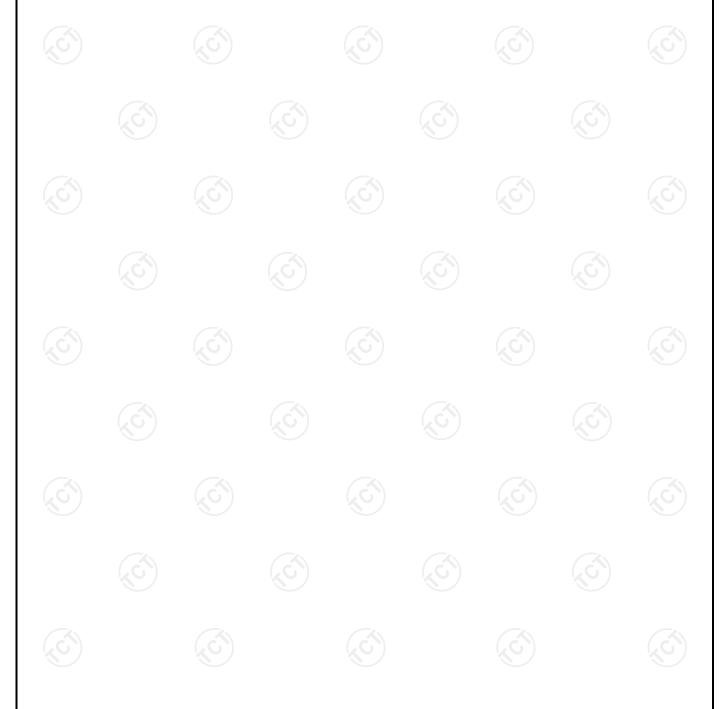




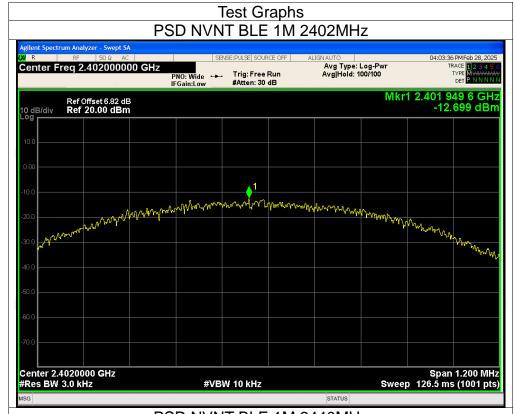


Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Conducted PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	BLE 1M	2402	-12.70	8	Pass
NVNT	BLE 1M	2440	-12.40	8	Pass
NVNT	BLE 1M	2480	-13.39	8	Pass
NVNT	BLE 2M	2402	-15.06	8	Pass
NVNT	BLE 2M	2440	-14.88	8	Pass
NVNT	BLE 2M	2480	-15.72	8	Pass



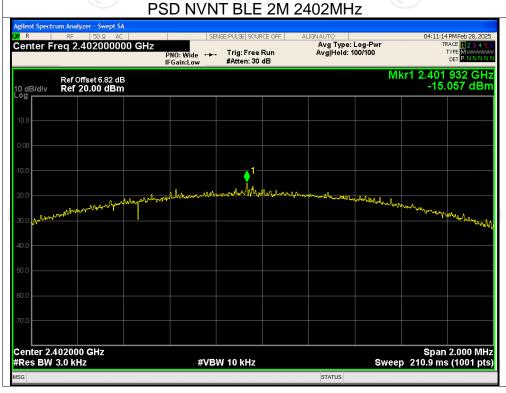




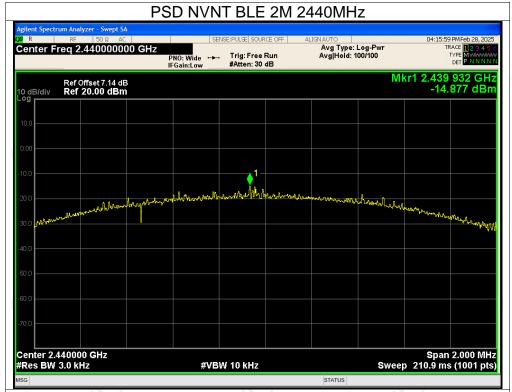
Aglient Spectrum Analyzer - Swept SA Of R SF SO AC Center Freq 2.44000000 GHz PRO: Wide Fred Run (Fred Run) Fred Run (Fred

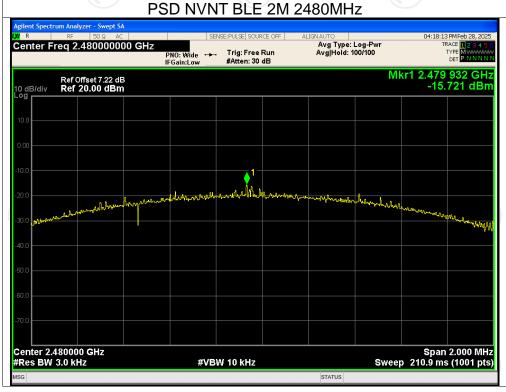








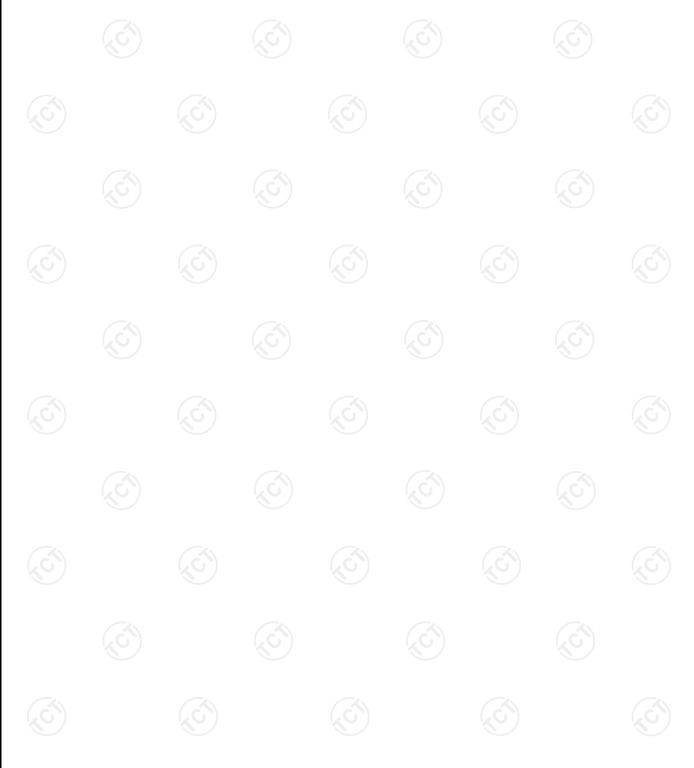




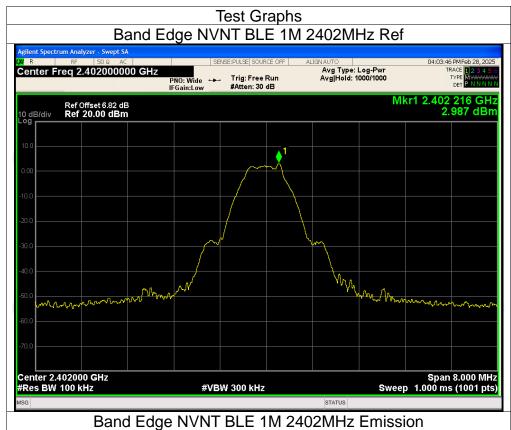


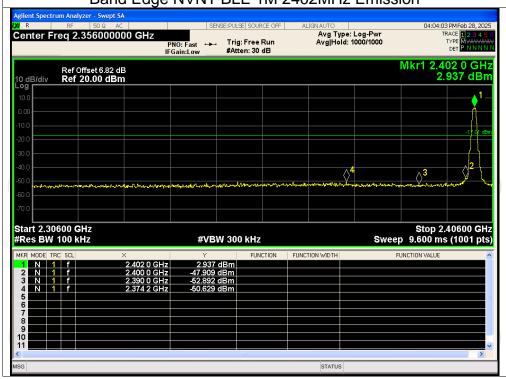
Band Edge

Condition	Mode	Frequency (MHz)	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	-53.61	-20	Pass
NVNT	BLE 1M	2480	-53.21	-20	Pass
NVNT	BLE 2M	2402	-52.34	-20	Pass
NVNT	BLE 2M	2480	-50.02	-20	Pass

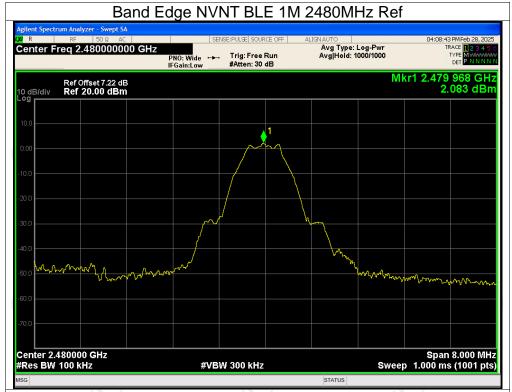


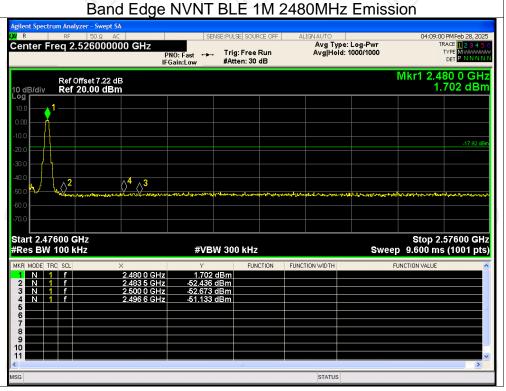






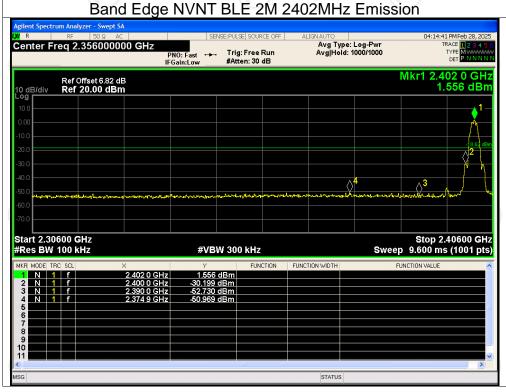




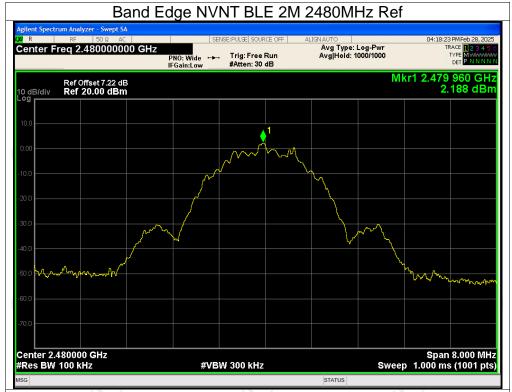


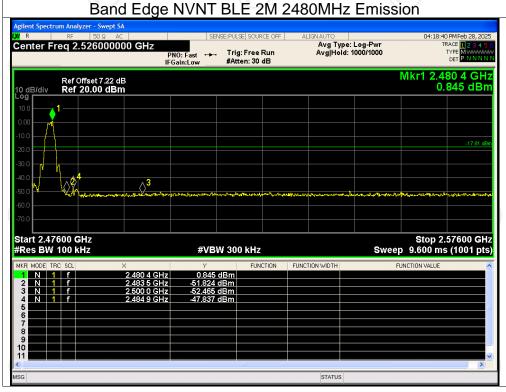








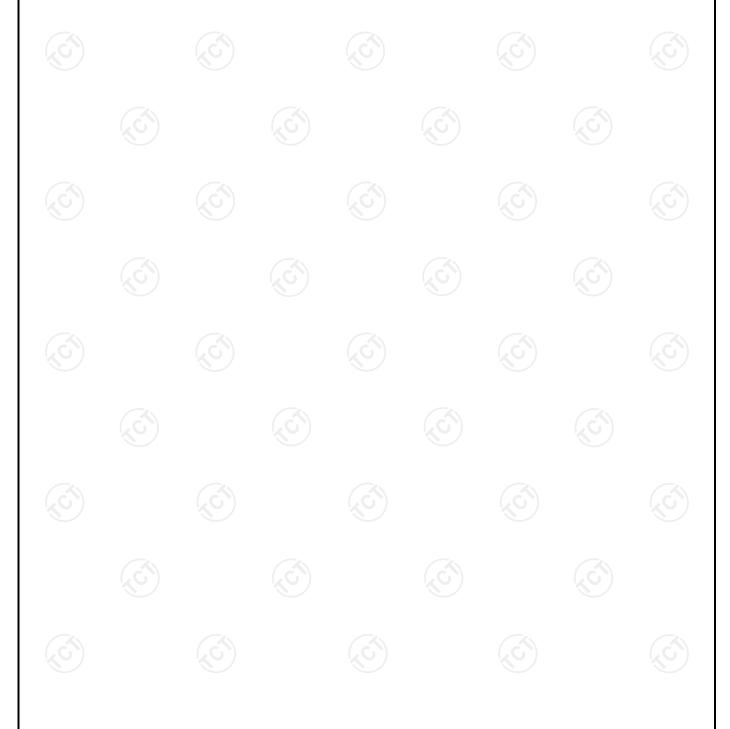






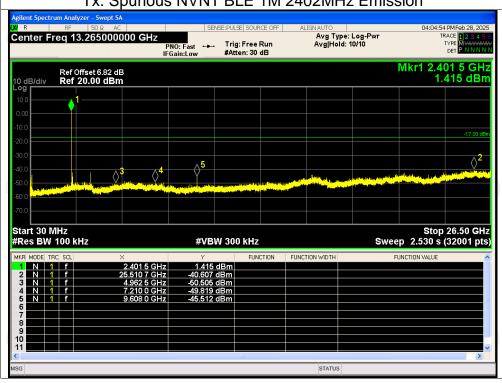
Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	-43.60	-20	Pass
NVNT	BLE 1M	2440	-29.93	-20	Pass
NVNT	BLE 1M	2480	-42.21	-20	Pass
NVNT	BLE 2M	2402	-42.70	-20	Pass
NVNT	BLE 2M	2440	-42.96	-20	Pass
NVNT	BLE 2M	2480	-41.72	-20	Pass



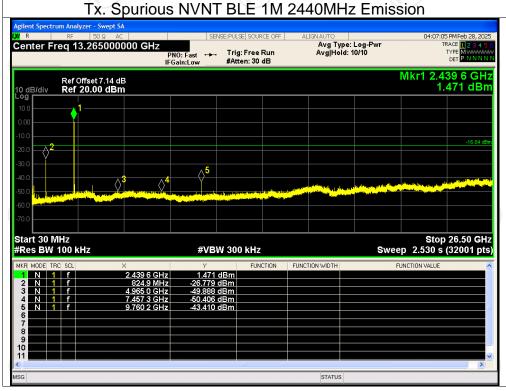






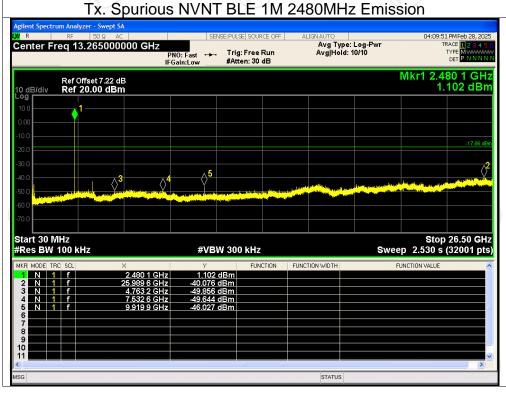






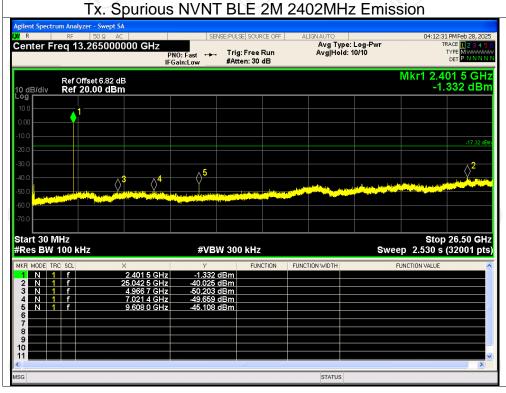






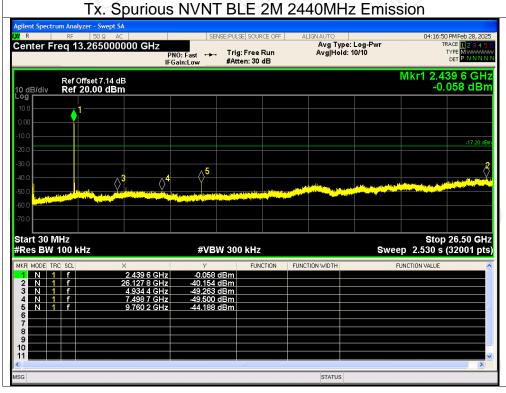






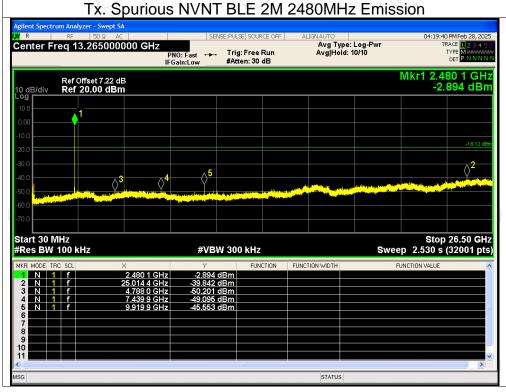














Appendix B: Photographs of Test Setup

Please refer to document Appendix No.: TCT250226E021-A

Appendix C: Photographs of EUT

Please refer to document Appendix No.: TCT250226E021-B & TCT250226E021-C

