

TESTING CENTRE TEC	TEST REPO	RT				
FCC ID:	2A3WYID7					
Test Report No:	TCT220104E013					
Date of issue	Jan. 14, 2022					
Testing laboratory:	SHENZHEN TONGCE TESTI	NG LAB	7.			
Testing location/ address:	TCT Testing Industrial Park Fuqiao 5th Industrial Zone, Fuhai Street, Bao'an District Shenzhen, Guangdong, 518103, People Republic of China					
Applicant's name:	CompanyDeep Ltd					
Address:	122 Ross Street, Cambridge,	CB13BU, United Kin	gdom			
Manufacturer's name:	CompanyDeep Ltd		X			
Address:	122 Ross Street, Cambridge,	CB13BU, United Kin	gdom			
Standard(s):	FCC CFR Title 47 Part 15 Sul FCC KDB 558074 D01 15.247 ANSI C63.10:2013					
Test item description:	IDC7 Bluetooth Module					
Trade Mark:	N/A		Ž.			
Model/Type reference:	IDC747, IDC757, IDC767, IDC	C777, IDC717, IDC72	27, IDC737			
Rating(s):	DC 3.3 V					
Date of receipt of test item	Jan. 04, 2022					
Date (s) of performance of test:	Jan. 04, 2022 - Jan. 14, 2022		3			
Tested by (+signature):	Aaron MO	Auron Auge	EIR			
Check by (+signature):	Beryl ZHAO	Boy CATTO	TING			
Approved by (+signature):	Tomsin	Tomsies				

General disclaimer:

This report shall not be reproduced except in full, without the written approval of SHENZHEN TONGCE TESTING LAB. This document may be altered or revised by SHENZHEN TONGCE TESTING LAB personnel only, and shall be noted in the revision section of the document. The test results in the report only apply to the tested sample.

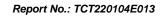




Table of Contents

1.	General Product Information	
	1.1. EUT description	3
	1.2. Model(s) list	
	1.3. Operation Frequency	4
2.	Test Result Summary	5
3.	General Information	
	3.1. Test environment and mode	6
	3.2. Description of Support Units	6
4.	Facilities and Accreditations	7
	4.1. Facilities	7
	4.2. Location	7
	4.3. Measurement Uncertainty	7
5.	Test Results and Measurement Data	8
	5.1. Antenna requirement	8
	5.2. Conducted Emission	9
	5.3. Conducted Output Power	13
	5.4. 20dB Occupy Bandwidth	14
	5.5. Carrier Frequencies Separation	15
	5.6. Hopping Channel Number	16
	5.7. Dwell Time	
	5.8. Pseudorandom Frequency Hopping Sequence	18
	5.9. Conducted Band Edge Measurement	19
	5.10.Conducted Spurious Emission Measurement	
	5.11.Radiated Spurious Emission Measurement	21
Α	ppendix A: Test Result of Conducted Test	
Α	ppendix B: Photographs of Test Setup	
	ppendix C: Photographs of EUT	



1. General Product Information

1.1. EUT description

Test item description:	IDC7 Bluetooth Module		
Model/Type reference:	IDC747		
Sample Number:	TCT220104E013-0101		
Bluetooth Version:	V5.2 (This report is for BDR+EDR)		
Operation Frequency:	2402MHz~2480MHz		
Transfer Rate:	1/2/3 Mbits/s		
Number of Channel:	79		
Modulation Type:	GFSK, π/4-DQPSK, 8DPSK		
Modulation Technology:	FHSS		
Antenna Type:	Chip Antenna		
Antenna Gain:	0dBi		
Rating(s):	DC 3.3 V	(6)	

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.	No. Model No.			
1	IDC747			
Other models	IDC757, IDC767, IDC777, IDC717, IDC727, IDC737			

Note: IDC747 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 IDC747 can represent the remaining models.

Page 3 of 86

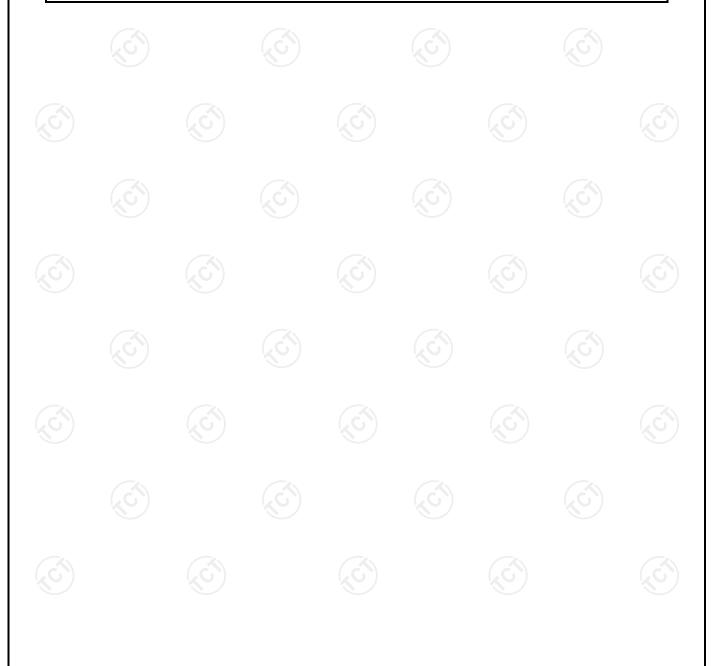
Hotline: 400-6611-140 Tel: 86-755-27673339 Fax: 86-755-27673332 http://www.tct-lab.com



1.3. Operation Frequency

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
_ 0	2402MHz	_ 20	2422MHz	40	2442MHz	60	2462MHz
G)1	2403MHz	21	2423MHz	41	2443MHz	61	2463MHz
·		·		/		·	
10	2412MHz	30	2432MHz	50	2452MHz	70	2472MHz
11	2413MHz	31	2433MHz	51	2453MHz	71	2473MHz
	O				O		
18	2420MHz	38	2440MHz	58	2460MHz	78	2480MHz
19	2421MHz	39	2441MHz	- 59	2461MHz	- X	-

Remark: Channel 0, 39 & 78 have been tested for GFSK, $\pi/4$ -DQPSK, 8DPSK modulation mode.





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)(1)	PASS
20dB Occupied Bandwidth	§15.247 (a)(1)	PASS
Carrier Frequencies Separation	§15.247 (a)(1)	PASS
Hopping Channel Number	§15.247 (a)(1)	PASS
Dwell Time	§15.247 (a)(1)	PASS
Radiated Emission	§15.205/§15.209	PASS
Band Edge	§15.247(d)	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.





TESTING CENTRE TECHNOLOGY Report No.: TCT220104E013

3. General Information

3.1. Test environment and mode

Operating Environment:		
Condition	Conducted Emission	Radiated Emission
Temperature:	25 °C	23.8 °C
Humidity:	55 % RH	47 % RH
Atmospheric Pressure:	1010 mbar	1010 mbar
Test Software:		
Software Information:	DEBUG	
Power Level:	9	
Test Mode:		
Engineering mode:	Keep the EUT in continuous channel and modulations.	transmitting by select

The sample was placed 0.8m & 1.5m for the measurement below & above 1GHz above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case(Z axis) are shown in Test Results of the following pages. DH1 DH3 DH5 all have been tested, only worse case DH1 is reported.

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
Notebook Computer	G3 3500	00342-36088-99832- AAOEM	1	DELL

Note:

- 1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
- Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.
- 3. For conducted measurements (Output Power, 20dB Occupied Bandwidth, Carrier Frequencies Separation, Hopping Channel Number, Dwell Time, 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.

Page 6 of 86



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

Report No.: TCT220104E013



5. Test Results and Measurement Data

5.1. Antenna requirement

Standard requirement:

FCC Part15 C Section 15.203 /247(c)

15.203 requirement:

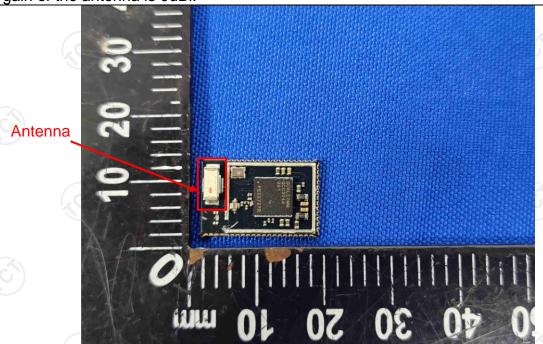
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit 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 chip antenna which permanently attached, and the best case gain of the antenna is 0dBi.





5.2. Conducted Emission

5.2.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.207					
Test Method:	ANSI C63.10:2013					
Frequency Range:	150 kHz to 30 MHz					
Receiver setup:	RBW=9 kHz, VBW=30 kHz, Sweep time=auto					
	Frequency range		dBuV)			
1. 1	(MHz)	Quasi-peak	Average			
Limits:	0.15-0.5	66 to 56*	56 to 46*			
	0.5-5	56	46			
	5-30	60	50			
	Reference	e Plane				
Test Setup:	Test table/Insulation plane Remark E.U.T: Equipment Under Test	Test table/Insulation plane Remark E.U.T. Equipment Under Test LISN: Line Impedence Stabilization Network				
Test Mode:	Transmitting 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 C63.10:2013 on conducted measurement. 					
Test Result:	PASS					



5.2.2. Test Instruments

Cond	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	Line-5 TCT		N/A	Jul. 07, 2022						
EMI Test Software	Shurple Technology	EZ-EMC	N/A	N/A						

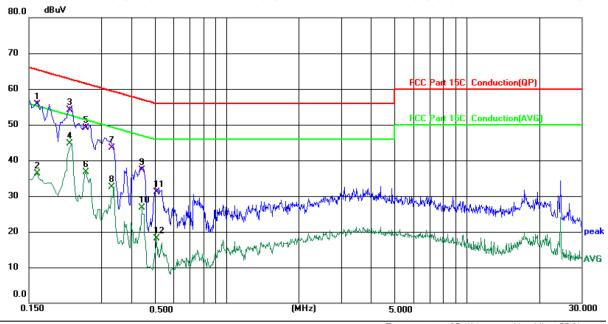




5.2.3. Test data

Please refer to following diagram for individual

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



Site 844 Shielding Room Phase: L1 Temperature: 25 (°C) Humidity: 55 %

Limit: FCC Part 15C Conduction(QP)

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

Report No.: TCT220104E013

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBu∨	dB	dBu∀	dBu∀	dB	Detector	Comment
1		0.1620	46.14	9.59	55.73	65.36	-9.63	QP	
2		0.1620	26.80	9.59	36.39	55.36	-18.97	AVG	
3		0.2220	44.72	9.37	54.09	62.74	-8.65	QP	
4	*	0.2220	35.26	9.37	44.63	52.74	-8.11	AVG	
5		0.2580	39.69	9.35	49.04	61.50	-12.46	QP	
6		0.2580	27.32	9.35	36.67	51.50	-14.83	AVG	
7		0.3320	34.31	9.29	43.60	59.40	-15.80	QP	
8		0.3320	23.21	9.29	32.50	49.40	-16.90	AVG	
9		0.4420	28.12	9.22	37.34	57.02	-19.68	QP	
10		0.4420	17.45	9.22	26.67	47.02	-20.35	AVG	
11		0.5100	21.81	9.20	31.01	56.00	-24.99	QP	
12		0.5100	8.85	9.20	18.05	46.00	-27.95	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)

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

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

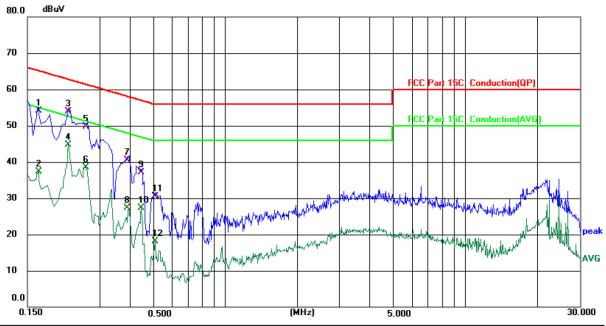
Q.P. =Quasi-Peak

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: 25 (°C) Humidity: 55 %

Limit: FCC Part 15C Conduction(QP)

Power: DC 5 V(Notebook Computer 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	0.1660	44.56	9.58	54.14	65.16	-11.02	QP	
2	0.1660	27.69	9.58	37.27	55.16	-17.89	AVG	
3	0.2220	44.58	9.31	53.89	62.74	-8.85	QP	
4 *	0.2220	35.32	9.31	44.63	52.74	-8.11	AVG	
5	0.2620	40.34	9.34	49.68	61.37	-11.69	QP	
6	0.2620	29.13	9.34	38.47	51.37	-12.90	AVG	
7	0.3899	31.16	9.26	40.42	58.07	-17.65	QP	
8	0.3899	18.11	9.26	27.37	48.07	-20.70	AVG	
9	0.4460	27.93	9.24	37.17	56.95	-19.78	QP	
10	0.4460	17.98	9.24	27.22	46.95	-19.73	AVG	
11	0.5100	21.20	9.22	30.42	56.00	-25.58	QP	
12	0.5100	8.91	9.22	18.13	46.00	-27.87	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 (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.

Note2:

Measurements were conducted in all three channels (high, middle, low) and three modulation (GFSK, Pi/4 DQPSK, 8DPSK), and the worst case Mode (Lowest channel and 8DPSK) was submitted only.



5.3. Conducted Output Power

5.3.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (b)(1)		
Test Method:	KDB 558074 D01 v05r02		
Limit:	Section 15.247 (b) The maximum peak conducted output power of the intentional radiator shall not exceed the following: (1) For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400-2483.5 MHz band 0.125 watts.		
Test Setup:	Spectrum Analyzer EUT		
Test Mode:	Transmitting mode with modulation		
Test Procedure:	Use the following spectrum analyzer settings: Span = approximately 5 times the 20 dB bandwidth, centered on a hopping channel RBW > the 20 dB bandwidth of the emission being measured VBW ≥ RBW Sweep = auto Detector function = peak Trace = max hold Allow the trace to stabilize. Use the marker-to-peak function to set the marker to the peak of the emission.		
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. 20dB Occupy Bandwidth

5.4.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (a)(1)			(C
Test Method:	KDB 558074 D01 v05r02			
Limit:	N/A			
Test Setup:	Spectrum Analyzer		EUT	
Test Mode:	Transmitting mod	e with modul	ation	
Test Procedure:	 Transmitting mode with modulation The RF output of EUT was connected to the spect analyzer by RF cable and attenuator. The path low was compensated to the results for each measurement. Set to the maximum power setting and enable the EUT transmit continuously. Use the following spectrum analyzer settings for 2 Bandwidth measurement. Span = approximately 2 to 5 times the 20 dB bandwidth, centered on a hopping channel; 1%≤RBW≤5% of the 20 dB bandwidth; VBW≥3RB Sweep = auto; Detector function = peak; Trace = hold. 			The path loss ach I enable the ettings for 20dB ≥ 20 dB annel; n; VBW≥3RBW;
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. Carrier Frequencies Separation

5.5.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (a)(1)			
Test Method:	KDB 558074 D01 v05r02			
Limit:	Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW.			
Test Setup:	Spectrum Analyzer EUT			
Test Mode:	Hopping mode			
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. Enable the EUT hopping function. Use the following spectrum analyzer settings: Span = wide enough to capture the peaks of two adjacent channels; RBW is set to approximately 30% of the channel spacing, adjust as necessary to best identify the center of each individual channel; VBW≥RBW; Sweep = auto; Detector function = peak; Trace = max hold. Use the marker-delta function to determine the separation between the peaks of the adjacent channels. Record the value in 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. Hopping Channel Number

5.6.1. Test Specification

J.o. 1. Test Specification	
Test Requirement:	FCC Part15 C Section 15.247 (a)(1)
Test Method:	KDB 558074 D01 v05r02
Limit:	Frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels.
Test Setup:	Spectrum Analyzer EUT
Test Mode:	Hopping mode
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. Enable the EUT hopping function. Use the following spectrum analyzer settings: Span = the frequency band of operation; set the RBW to less than 30% of the channel spacing or the 20 dB bandwidth, whichever is smaller; VBW≥RBW; Sweep = auto; Detector function = peak; Trace = max hold. The number of hopping frequency used is defined as the number of total channel. Record the measurement data in report.
Test Result:	PASS
1 6.31	

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. Dwell Time

5.7.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (a)(1)
Test Method:	KDB 558074 D01 v05r02
Limit:	The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed.
Test Setup:	Spectrum Analyzer EUT
Test Mode:	Hopping mode
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. Enable the EUT hopping function. Use the following spectrum analyzer settings: Span = zero span, centered on a hopping channel; RBW shall be ≤ channel spacing and where possible RBW should be set >> 1 / T, where T is the expected dwell time per channel; VBW≥RBW; Sweep = as necessary to capture the entire dwell time per hopping channel; Detector function = peak; Trace = max hold. Measure and record the results in the test report.
Test Result:	PASS

5.7.2. 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



5.8. Pseudorandom Frequency Hopping Sequence

Test Requirement: FCC Part15 C Section 15.247 (a)(1) requirement:

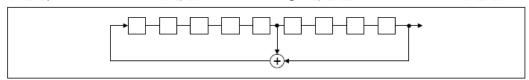
Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater.

Alternatively. Frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW. The system shall hop to channel frequencies that are selected at the system hopping rate from a Pseudorandom ordered list of hopping frequencies. Each frequency must be used equally on the average by each transmitter. The system receivers shall have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shall shift frequencies in synchronization with the transmitted signals.

EUT Pseudorandom Frequency Hopping Sequence

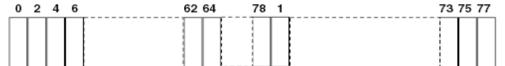
The pseudorandom sequence may be generated in a nine-stage shift register whose 5th and 9th stage outputs are added in a modulo-two addition stage. And the result is fed back to the input of the first stage. The sequence begins with the first one of 9 consecutive ones; i.e. the shift register is initialized with nine ones.

- Number of shift register stages: 9
- Length of pseudo-random sequence: 29-1 = 511 bits
- Longest sequence of zeros: 8 (non-inverted signal)



Linear Feedback Shift Register for Generation of the PRBS sequence

An example of Pseudorandom Frequency Hopping Sequence as follow:



Each frequency used equally on the average by each transmitter. The system receivers have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shift frequencies in synchronization with the transmitted signals.



5.9. Conducted Band Edge Measurement

5.9.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (d)
Test Method:	KDB 558074 D01 v05r02
Limit:	In any 100 kHz bandwidth outside the intentional radiation frequency band, the radio frequency power shall be at least 20 dB below the highest level of the radiated power. In addition, radiated emissions which fall in the restricted bands must also comply with the radiated emission limits.
Test Setup:	Spectrum Analyzer EUT
Test Mode:	Transmitting mode with modulation
Test Procedure:	 Set to the maximum power setting and enable the EUT transmit continuously. Set RBW = 100 kHz (≥1% span=10MHz), VBW = 300 kHz (≥RBW). Band edge emissions must be at least 20 dB down from the highest emission level within the authorized band as measured with a 100kHz RBW. The attenuation shall be 30 dB instead of 20 dB when RMS conducted output power procedure is used. Enable hopping function of the EUT and then repeat step 2 and 3. Measure and record the results in the test report.
Test Result:	PASS

5.9.2. 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		

Page 19 of 86



5.10. Conducted Spurious Emission Measurement

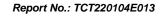
5.10.1. Test Specification

FCC Part15 C Section 15.247 (d)
KDB 558074 D01 v05r02
In any 100 kHz bandwidth outside the intentional radiation frequency band, the radio frequency power shall be at least 20 dB below the highest level of the radiated power. In addition, radiated emissions which fall in the restricted bands must also comply with the radiated emission limits.
Spectrum Analyzer EUT
Transmitting mode with modulation
 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 = 300kHz, scan up through 10th harmonic. All harmonics / spurs must be at least 20 dB down from the highest emission level within the authorized band as measured with a 100 kHz RBW. 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.
PASS

5.10.2. 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

Page 20 of 86

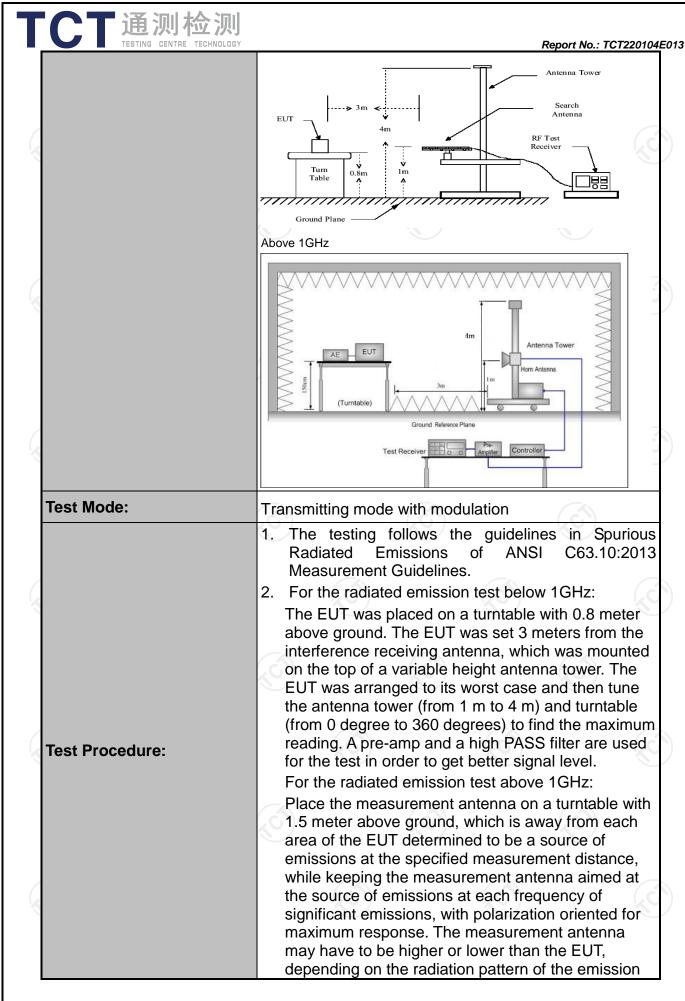




5.11. Radiated Spurious Emission Measurement

5.11.1. Test Specification

Test Requirement: Test Method: Trequency Range: Measurement Distance: Antenna Polarization: Receiver Setup:	FCC Part15 ANSI C63.10 9 kHz to 25 0 3 m Horizontal & Frequency 9kHz- 150kHz 150kHz- 30MHz 30MHz-1GHz Above 1GHz	0:2013 GHz	r ak	RBW 200Hz	VBW											
Frequency Range: Measurement Distance: Antenna Polarization: Receiver Setup:	9 kHz to 25 0 3 m Horizontal & Frequency 9kHz- 150kHz 150kHz- 30MHz 30MHz-1GHz	Vertical Detector Quasi-pea Quasi-pea	ak	200Hz	\sim)									
Measurement Distance: Antenna Polarization: Receiver Setup:	3 m Horizontal & Frequency 9kHz- 150kHz 150kHz- 30MHz 30MHz-1GHz	Vertical Detector Quasi-pea Quasi-pea Quasi-pea	ak	200Hz	\sim)									
Antenna Polarization: Receiver Setup:	Horizontal & Frequency 9kHz- 150kHz 150kHz- 30MHz 30MHz-1GHz	Detector Quasi-pea Quasi-pea Quasi-pea	ak	200Hz	\sim		/									
Receiver Setup:	Frequency 9kHz- 150kHz 150kHz- 30MHz 30MHz-1GHz	Detector Quasi-pea Quasi-pea Quasi-pea	ak	200Hz	\sim											
	9kHz- 150kHz 150kHz- 30MHz 30MHz-1GHz	Quasi-pea Quasi-pea Quasi-pea	ak	200Hz	\sim		Frequency Detector RBW VBW Remark									
	150kHz- 30MHz 30MHz-1GHz	Quasi-pea Quasi-pea			1kHz	Quas	Remark ii-peak Value									
	30MHz-1GHz			9kHz	30kHz	1	i-peak Value									
_imit:	Above 1GHz	Pook	ak	120KHz	300KHz	Quas	i-peak Value									
_imit:	7.5000 10112		<u> </u>	1MHz	3MHz		eak Value									
.imit:		Peak		1MHz	10Hz	Ave	rage Value									
.imit:	Frequer	Frequency			ength (meter)	Measurement Distance (meters)										
.imit:	0.009-0.4	490		2400/F(k	(Hz)		300									
_imit:	0.490-1.7			24000/F(30	KHz)		30									
_imit:		1.705-30 30-88					30									
imit:	88-210			100 150			3									
	216-96			200		-/ <u>/</u> C	3									
	Above 9			500			3									
	Frequency		Field Strength		Measure Distan (meter	ce	Detector									
	Above 1GH:	7	500		3		Average									
	Above IGII.		5000		3		Peak									
Гest setup:		Turn table	w 30	Above 1GHz 500 3 Average 5000 3 Peak For radiated emissions below 30MHz Distance = 3m Computer Pre-Amplifier												



T通测检测		
TESTING CENTRE TECHNOLOGY	Report No.: TC	T220104E013
	and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that was maximizes the emissions. The measurement antenna elevation for maximum emissions shal restricted to a range of heights of from 1 m to 4 above the ground or reference ground plane. 3. Set to the maximum power setting and enable EUT transmit continuously.	ll be m
	 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, RBW=1N for f>1GHz; VBW≥RBW; 	
	Sweep = auto; Detector function = peak; = max hold for peak (3) For average measurement: use duty cycle correction factor method per	Э
	15.35(c). Duty cycle = On time/100 millised On time =N1*L1+N2*L2++Nn-1*LNn-1+N Where N1 is number of type 1 pulses, L1 length of type 1 pulses, etc. Average Emission Level = Peak Emission Level + 20*log(Duty cycle)	Nn*Ln is
	Corrected Reading: Antenna Factor + Cab Loss + Read Level - Preamp Factor = Leve	
Test results:	PASS	





5.11.2. Test Instruments

	Radiated En	nission Test Site	e (966)	
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
EMI Test Receiver	R&S	ESIB7	100197	Jul. 07, 2022
Spectrum Analyzer	R&S	FSQ40	200061	Jul. 07, 2022
Pre-amplifier	SKET	LNPA_0118G- 45	SK2021012 102	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

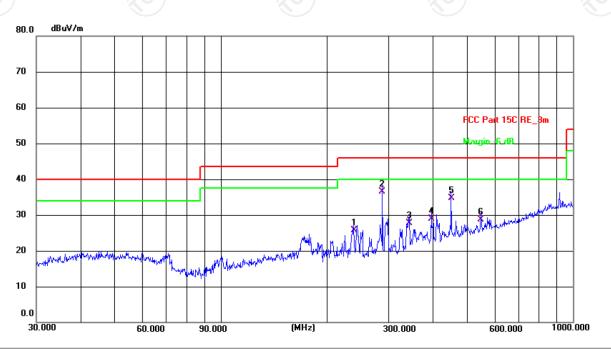


5.11.3. Test Data

Please refer to following diagram for individual

Below 1GHz

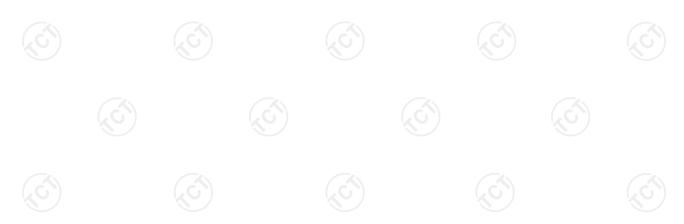
Horizontal:



Site #2 3m Anechoic Chamber Polarization: Horizontal Temperature: 23.8(C) Humidity: 47 %

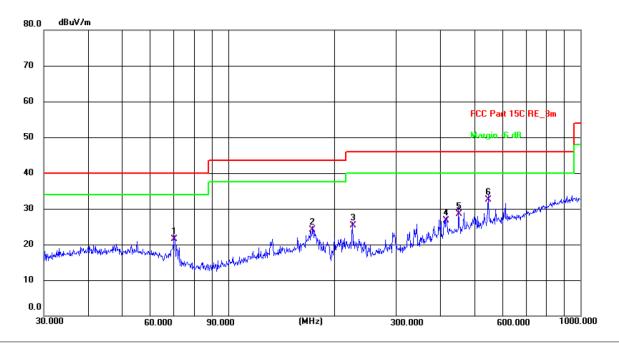
Limit: FCC Part 15C RE_3m Power: DC 5 V(Notebook Computer Input AC 120 V/60 Hz)

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector	P/F	Remark
1	238.3102	13.13	12.67	25.80	46.00	-20.20	QP	Р	
2 *	287.9904	22.49	14.01	36.50	46.00	-9.50	QP	Р	
3	343.1800	12.55	15.25	27.80	46.00	-18.20	QP	Р	
4	396.2415	11.77	17.13	28.90	46.00	-17.10	QP	Р	
5	451.1350	16.45	18.35	34.80	46.00	-11.20	QP	Р	
6	547.0977	8.53	20.27	28.80	46.00	-17.20	QP	Р	





Vertical:



Temperature: 23.8(C) Humidity: 47 % Site #2 3m Anechoic Chamber Polarization: Vertical

Power: DC 5 V(Notebook Computer Input Limit: FCC Part 15C RE_3m AC 120 V/60 Hz)

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	70.3365	10.46	11.04	21.50	40.00	-18.50	QP	Р	
2	173.8135	12.24	11.96	24.20	43.50	-19.30	QP	Р	
3	225.3080	13.61	11.79	25.40	46.00	-20.60	QP	Р	
4	416.1791	9.09	17.61	26.70	46.00	-19.30	QP	Р	
5	451.1350	10.25	18.35	28.60	46.00	-17.40	QP	Р	
6 *	547.0977	12.23	20.27	32.50	46.00	-13.50	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. Left earbud and Right earbud of EUT have been tested, but the test data only show the worst case in this report, and we found the worst case is Right earbud. Measurements were conducted in all three channels (high, middle, low) and three modulation (GFSK, Pi/4 DQPSK, 8DPSK) and the worst case Mode (Lowest channel and 8DPSK) was submitted only.
- 3. Freq. = Emission frequency in MHz

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

Correction Factor= Antenna Factor + Cable loss - Pre-amplifier

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

Over (dB) = Measurement $(dB\mu V/m)$ – Limits $(dB\mu V/m)$

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

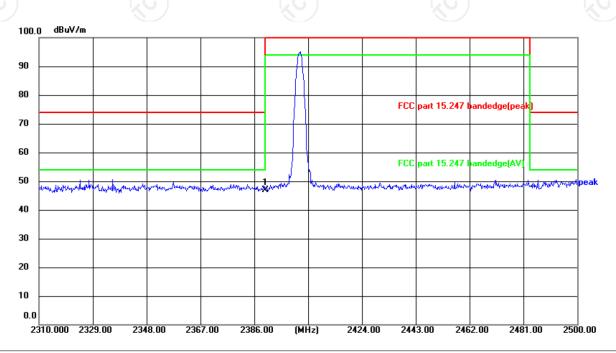
Page 26 of 86



Test Result of Radiated Spurious at Band edges

Lowest channel 2402:

Horizontal:



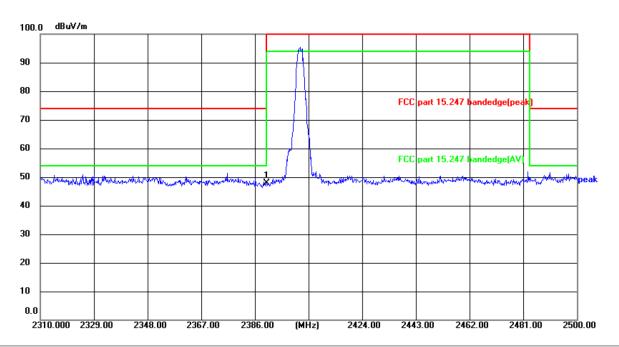
Site Polarization: Horizontal Temperature: $25(^{\circ}\text{C})$ Limit: FCC part 15.247 bandedge(peak) Power: DC 5V Humidity: 55%

No.	Frequency (MHz)	Reading (dBuV)		Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1 *	2390.000	65.57	-18.69	46.88	74.00	-27.12	peak	Р	





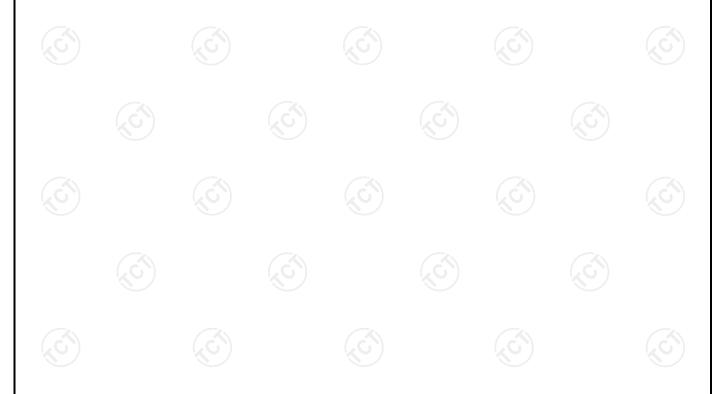
Vertical:



25(℃) Site Polarization: Vertical Temperature: DC 5V Humidity: 55 % Power:

Limit: FCC part 15.247 bandedge(peak)

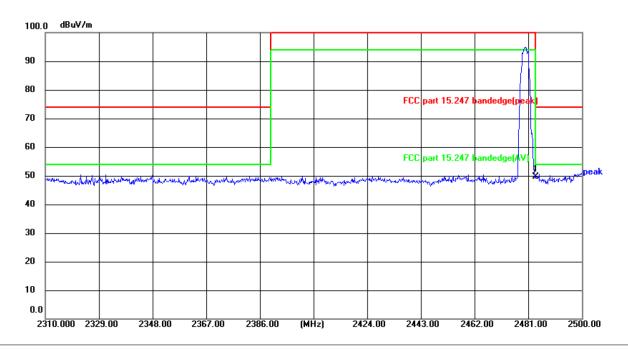
			J (1 /						
No.	Frequency (MHz)	Reading (dBuV)		Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1 *	2390.000	66.54	-18.69	47.85	74.00	-26.15	peak	Р	





Highest channel 2480:

Horizontal:



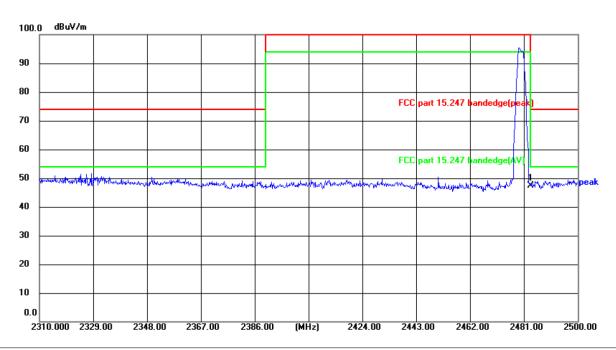
Site Polarization: Horizontal Temperature: 25($^{\circ}$ C) Limit: FCC part 15.247 bandedge(peak) Power: DC 5 V Humidity: 55 %

No.	Frequency (MHz)	Reading (dBuV)		Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1 *	2483.500	68.13	-18.40	49.73	74.00	-24.27	peak	Р	





Vertical:



Site Polarization: Vertical Temperature: 25(°C)

Limit: FCC part 15.247 bandedge(peak) Power: DC 5V Humidity: 55 %

No.	Frequency (MHz)	Reading (dBuV)		Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1 *	2483.500	65.90	-18.40	47.50	74.00	-26.50	peak	Р	

Note: Left earbud and Right earbud of EUT have been tested, but the test data only show the worst case in this report, and we found the worst case is Right earbud. Measurements were conducted in all three modulation (GFSK, Pi/4 DQPSK, 8DPSK), and the worst case Mode (8DPSK) was submitted only.







Above 1GHz

Modulation Type: 8DPSK										
Low channel: 2402 MHz										
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBuV)	Correction Factor (dB/m)	Emission Peak (dBµV/m)	AV	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)	
4804	Н	43.68		0.66	44.34		74	54	-9.66	
7206	Η	34.73		9.50	44.23		74	54	-9.77	
	H							7-7		
4804	V	43.51		0.66	44.17	<u></u>	74	54	-9.83	
7206	V	35.06		9.50	44.56		74	54	-9.44	
	V									

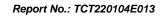
Middle cha	nnel: 2441	MHz	(20)			70)	KO		
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)	Emission Peak (dBµV/m)	AV	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
4882	H	44.82		0.99	45.81		74	54	-8.19
7323	(H)	34.18		9.87	44.05	(O 1)-	74	54	-9.95
	H					<u></u>			
	· ·			T			T	· · · · · · · · · · · · · · · · · · ·	
4882	V	43.63		0.99	44.62		74	54	-9.38
7323	V	32.52		9.87	42.39		74	54	-11.61
	V	(A-2)		')		() /		

High channel: 2480 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)
4960	Н	44.74	-	1.33	46.07	i	74	54	-7.93
7440	Н	35.19		10.22	45.41		74	54	-8.59
	Η								
								(, C	
4960	V	44.85		1.33	46.18		74	54	-7.82
7440	V	35.93		10.22	46.15		74	54	-7.85
	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. Left earbud and Right earbud of EUT have been tested, but the test data only show the worst case in this report, and we found the worst case is Right earbud. Measurements were conducted in all three modulation (GFSK, Pi/4 DQPSK, 8DPSK), and the worst case Mode (8DPSK) was submitted only.
- 7. All the restriction bands are compliance with the limit of 15.209.







Appendix A: Test Result of Conducted Test

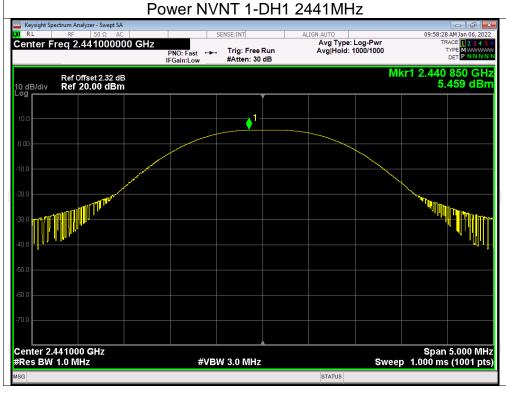
Maximum	Conducted	Output Power	
---------	-----------	--------------	--

Condition	Mode	Frequency (MHz)	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH1	2402	5.39	30	Pass
NVNT	1-DH1	2441	5.46	30	Pass
NVNT	1-DH1	2480	5.1	30	Pass
NVNT	2-DH1	2402	5.1	21	Pass
NVNT	2-DH1	2441	5.13	21	Pass
NVNT	2-DH1	2480	4.87	21	Pass
NVNT	3-DH1	2402	6.81	21	Pass
NVNT	3-DH1	2441	6.79	21	Pass
NVNT	3-DH1	2480	6.03	21	Pass

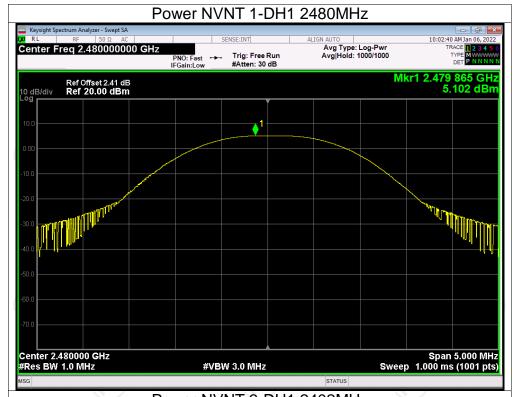


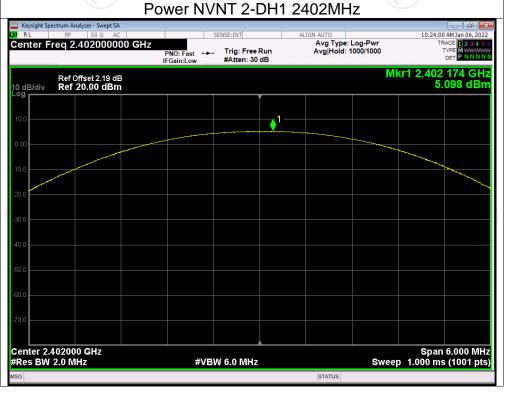






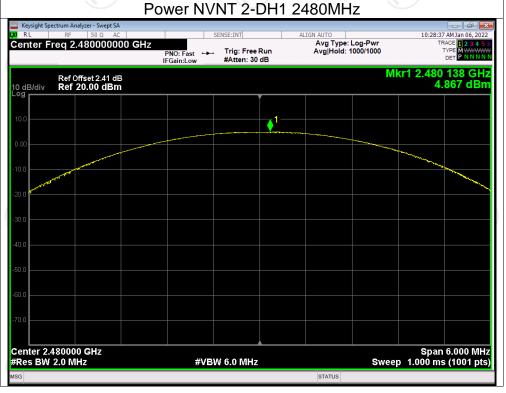






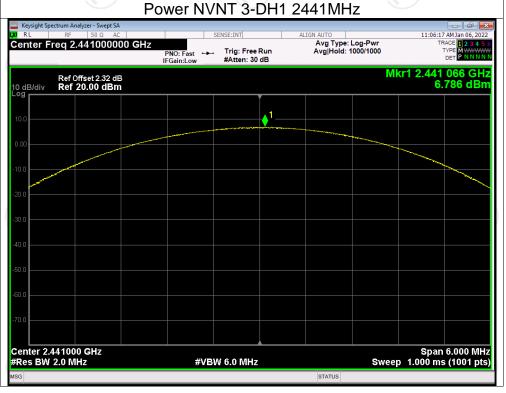


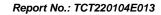




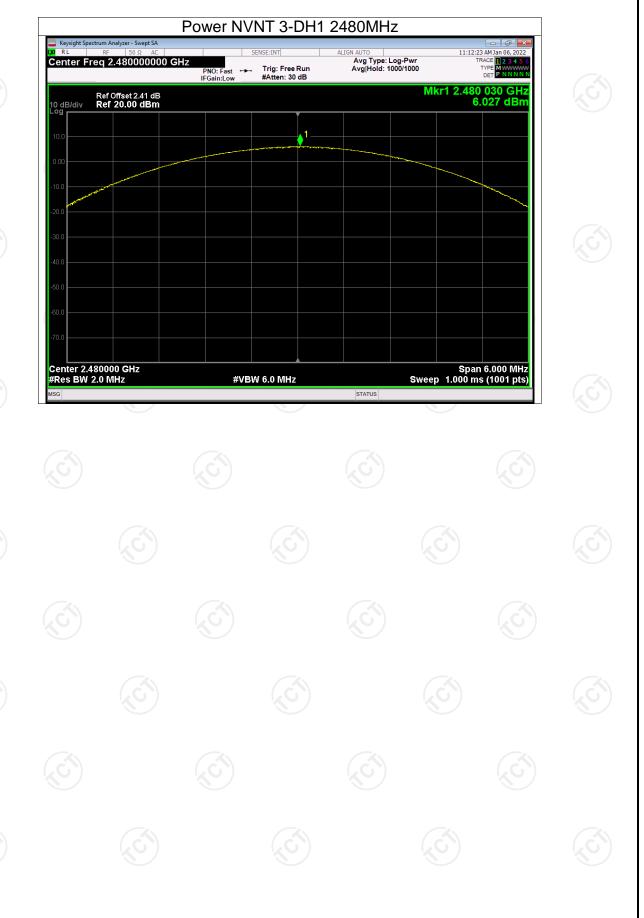














-20dB Bandwidth

Condition	Mode	Frequency (MHz)	-20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH1	2402	0.953	Pass
NVNT	1-DH1	2441	0.946	Pass
NVNT	1-DH1	2480	0.948	Pass
NVNT	2-DH1	2402	1.350	Pass
NVNT	2-DH1	2441	1.334	Pass
NVNT	2-DH1	2480	1.339	Pass
NVNT	3-DH1	2402	1.312	Pass
NVNT	3-DH1	2441	1.293	Pass
NVNT	3-DH1	2480	1.298	Pass































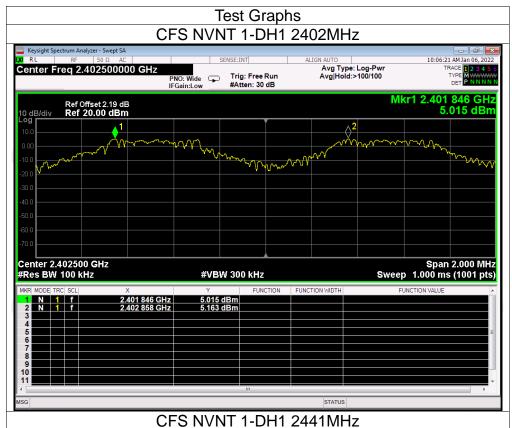


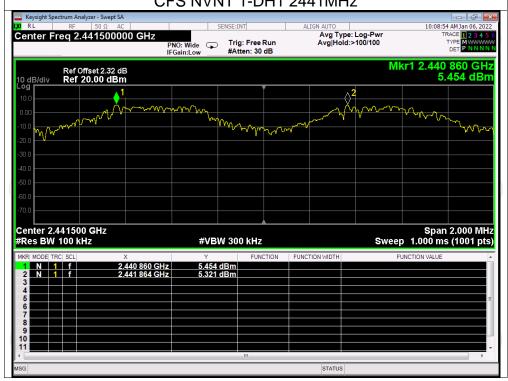
Carrier Frequencies Separation

Condition	Mode	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH1	2401.846	2402.858	1.012	0.953	Pass
NVNT	1-DH1	2440.86	2441.864	1.004	0.953	Pass
NVNT	1-DH1	2479.045	2480.058	1.013	0.953	Pass
NVNT	2-DH1	2401.838	2402.83	0.992	0.900	Pass
NVNT	2-DH1	2440.834	2441.844	1.01	0.900	Pass
NVNT	2-DH1	2478.816	2479.82	1.004	0.900	Pass
NVNT	3-DH1	2401.812	2402.83	1.018	0.875	Pass
NVNT	3-DH1	2440.824	2441.846	1.022	0.875	Pass
NVNT	3-DH1	2478.83	2479.842	1.012	0.875	Pass



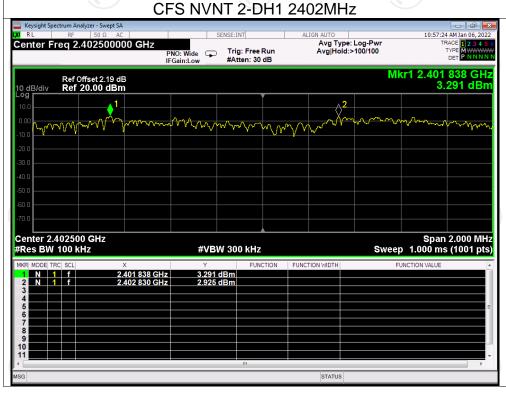




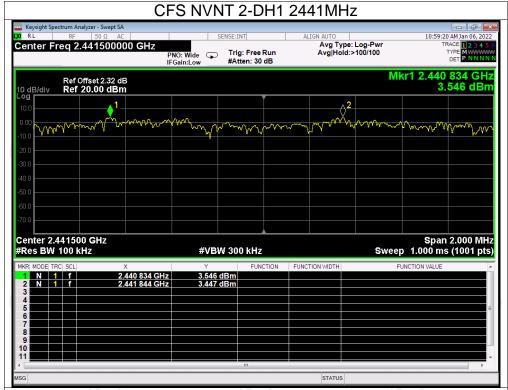


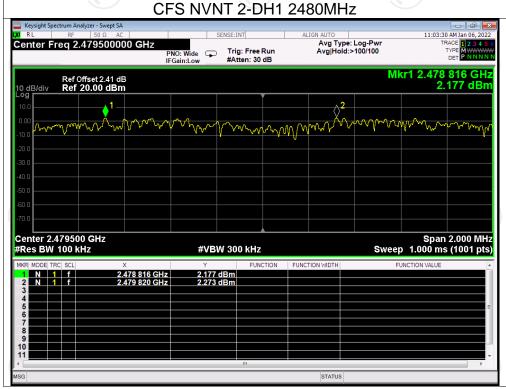




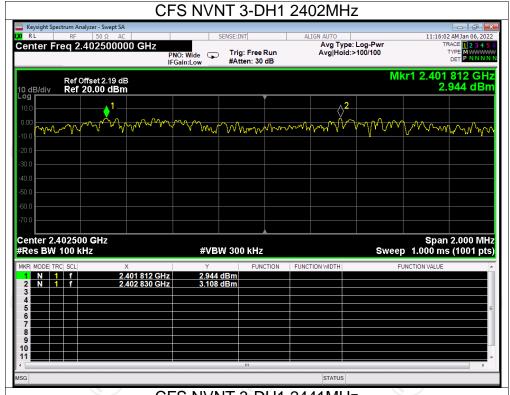


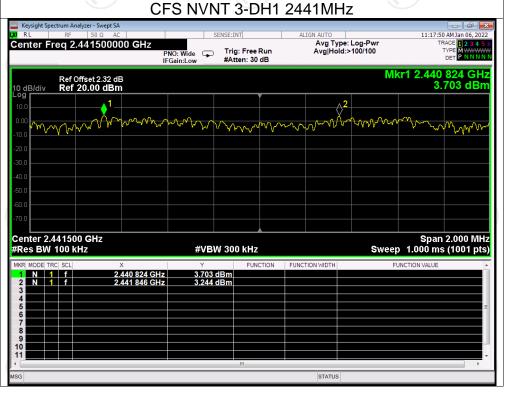




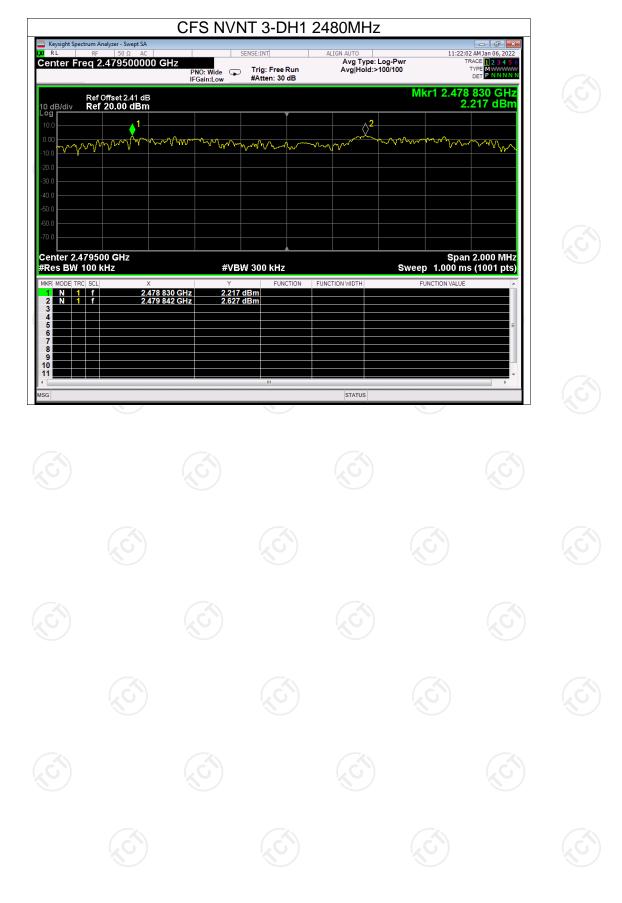








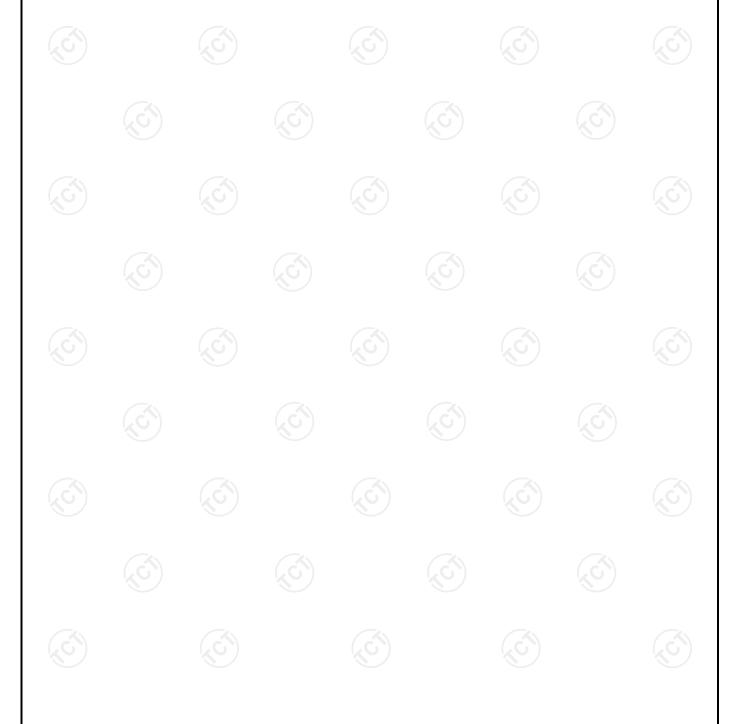




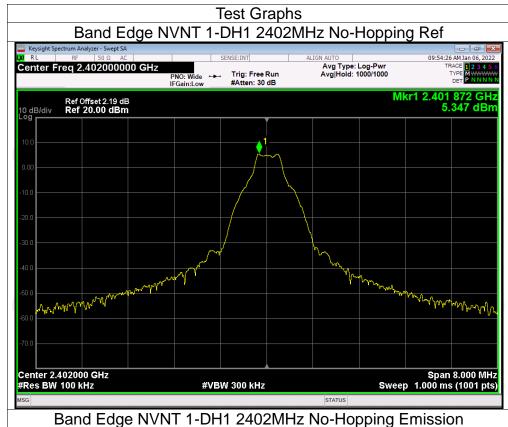


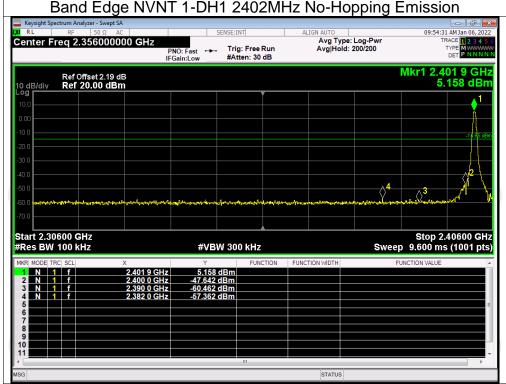
Band Edge

2 4114 2 490						
Condition	Mode	Frequency (MHz)	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	No-Hopping	-62.71	-20	Pass
NVNT	1-DH1	2480	No-Hopping	-60.07	-20	Pass
NVNT	2-DH1	2402	No-Hopping	-58.56	-20	Pass
NVNT	2-DH1	2480	No-Hopping	-55.25	-20	Pass
NVNT	3-DH1	2402	No-Hopping	-61.1	-20	Pass
NVNT	3-DH1	2480	No-Hopping	-58.89	-20	Pass

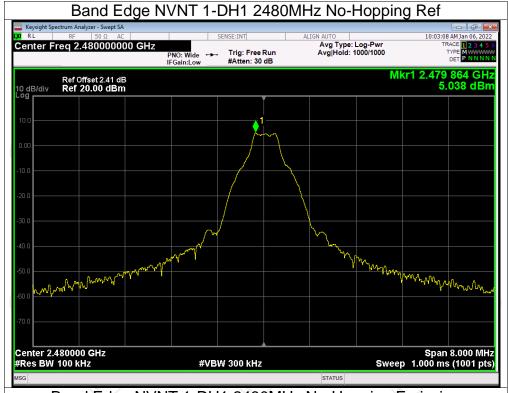


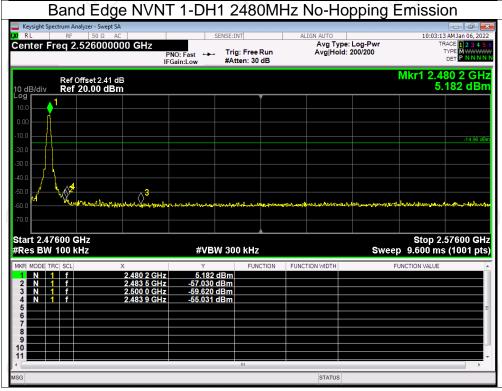






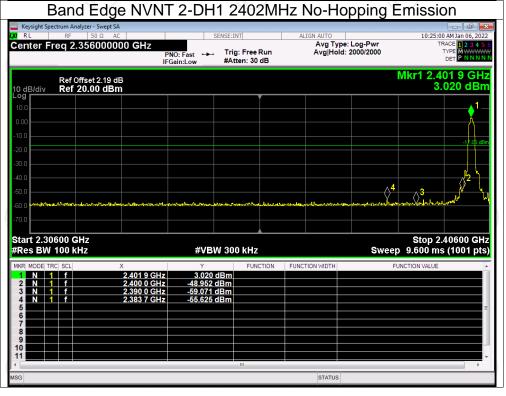






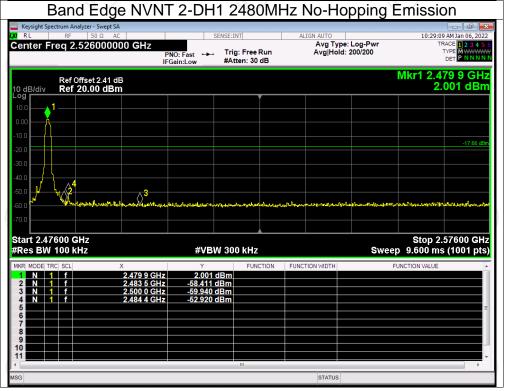






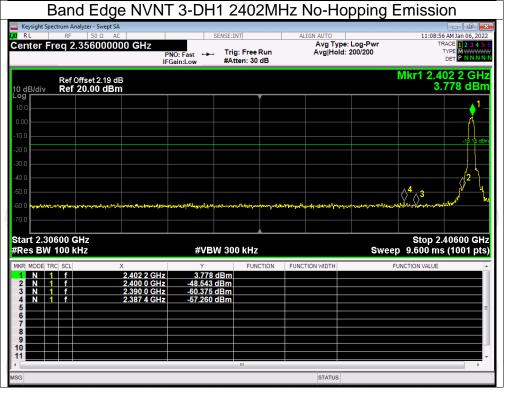






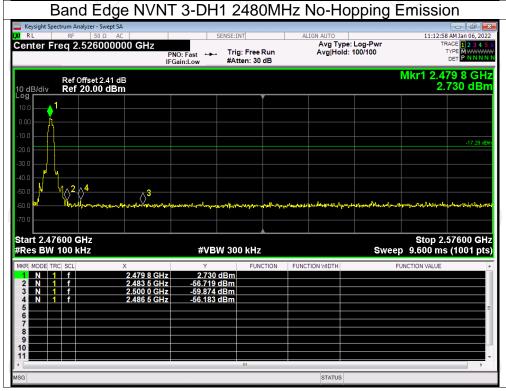








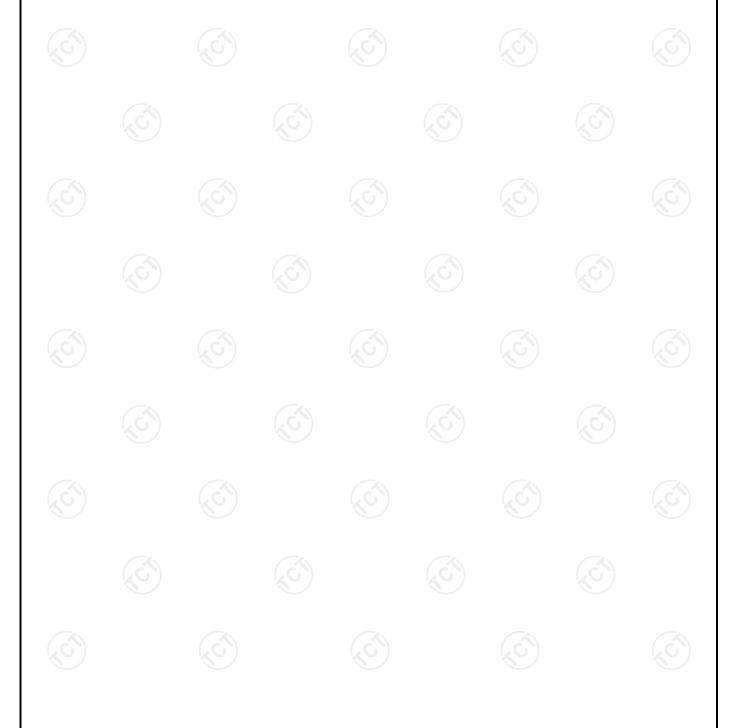




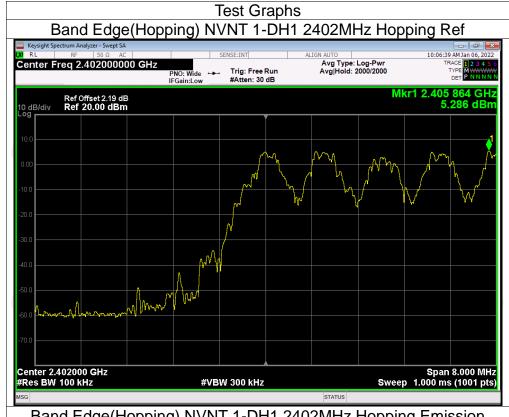


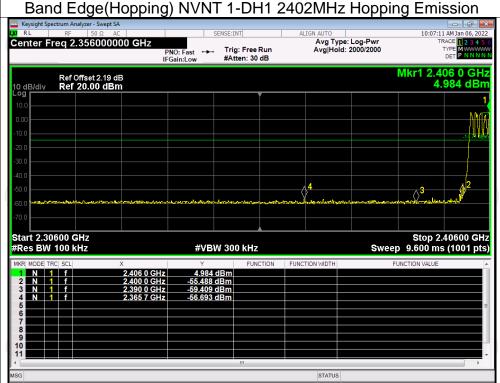
Band Edge(Hopping)

-a.i.aa.g-(i.i-pp.ii.g)						
Condition	Mode	Frequency (MHz)	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	Hopping	-61.98	-20	Pass
NVNT	1-DH1	2480	Hopping	-61.17	-20	Pass
NVNT	2-DH1	2402	Hopping	-59.28	-20	Pass
NVNT	2-DH1	2480	Hopping	-59.7	-20	Pass
NVNT	3-DH1	2402	Hopping	-59.41	-20	Pass
NVNT	3-DH1	2480	Hopping	-58.3	-20	Pass



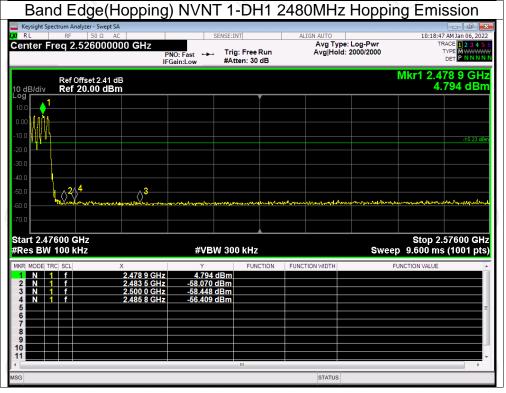




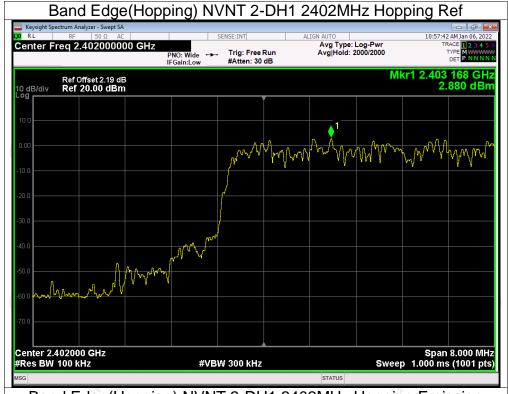


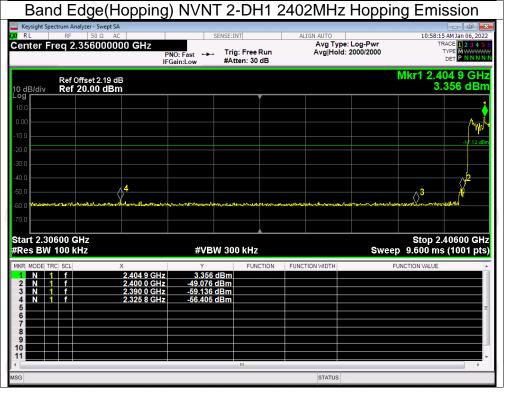




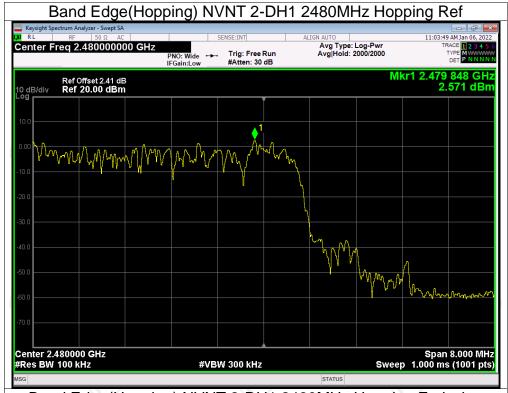


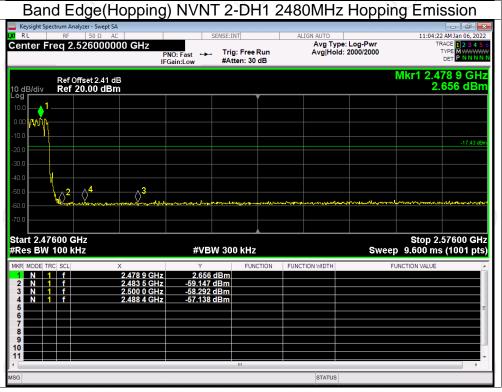




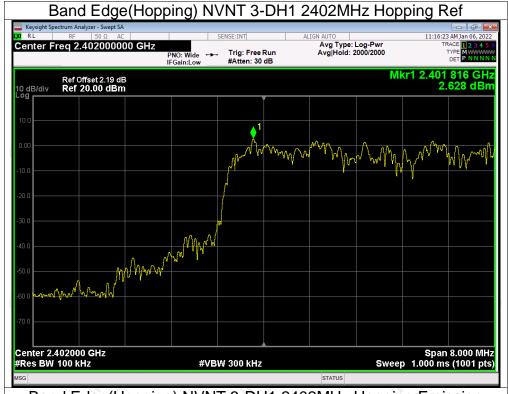


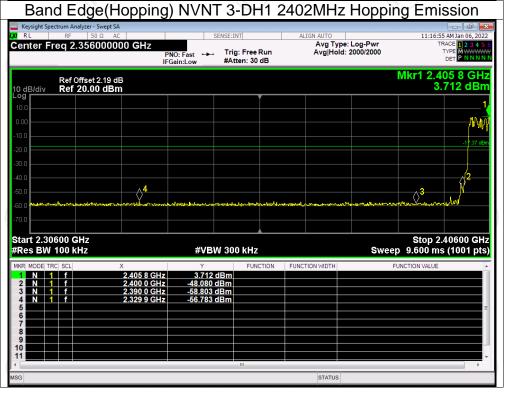




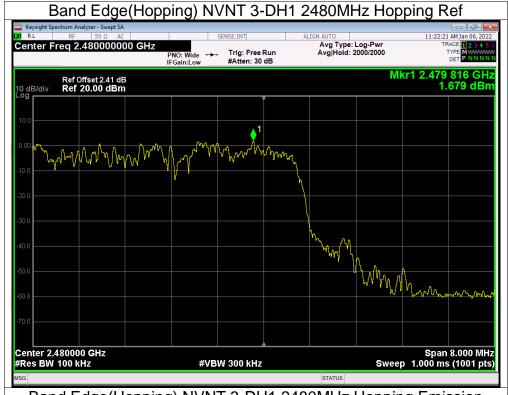


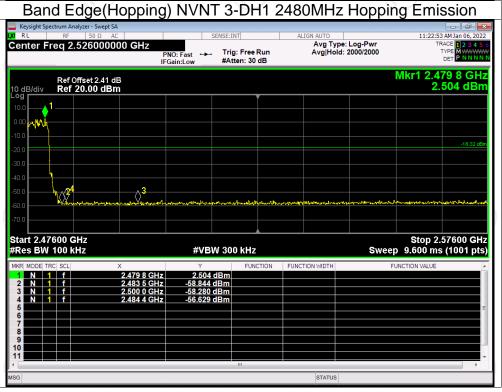








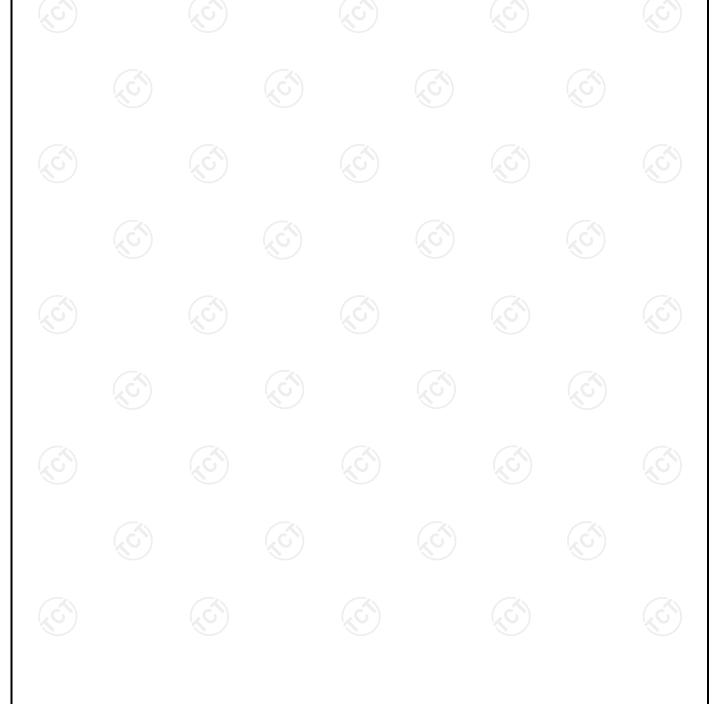




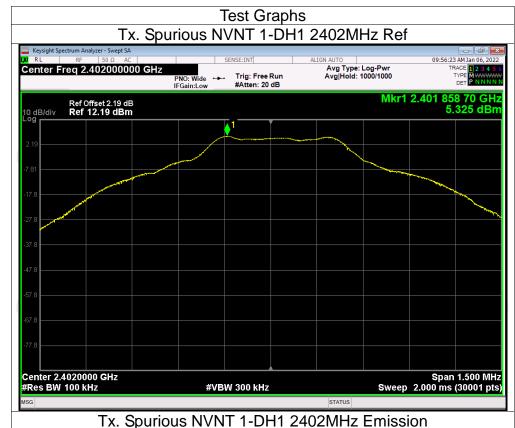


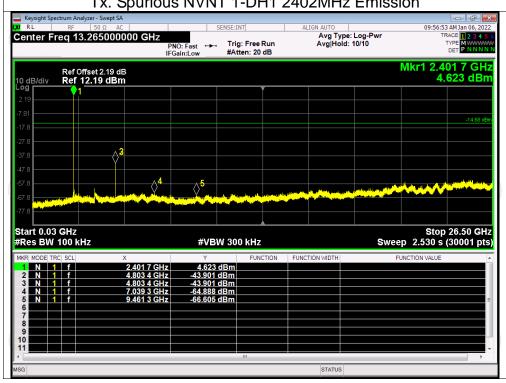
Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	-49.23	-20	Pass
NVNT	1-DH1	2441	-52.05	-20	Pass
NVNT	1-DH1	2480	-47.68	-20	Pass
NVNT	2-DH1	2402	-52.65	-20	Pass
NVNT	2-DH1	2441	-48.46	-20	Pass
NVNT	2-DH1	2480	-48.24	-20	Pass
NVNT	3-DH1	2402	-59.08	-20	Pass
NVNT	3-DH1	2441	-58.76	-20	Pass
NVNT	3-DH1	2480	-57.6	-20	Pass

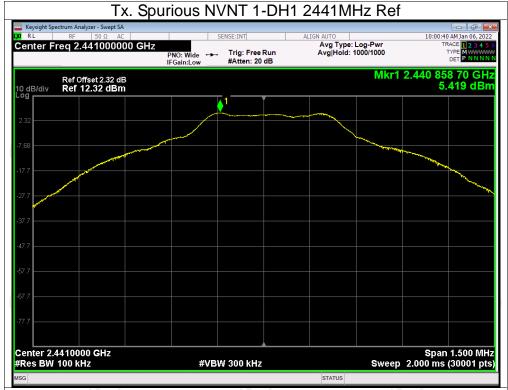


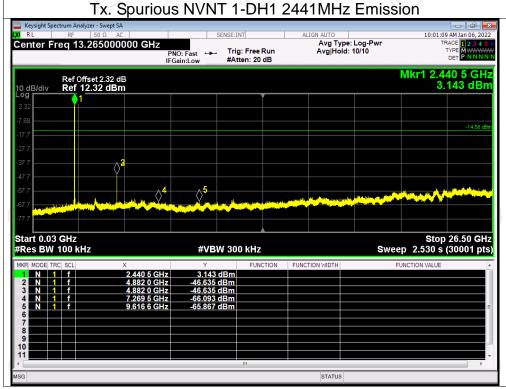




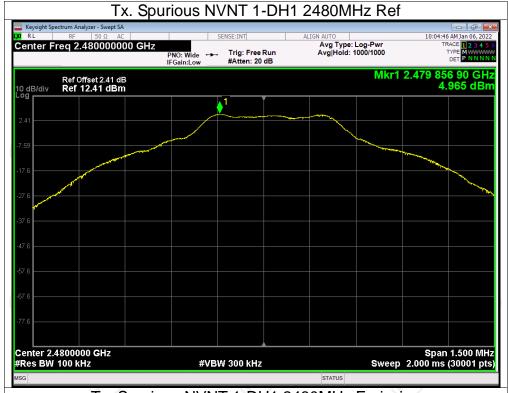


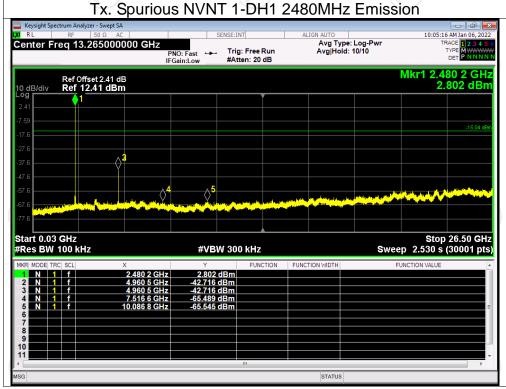






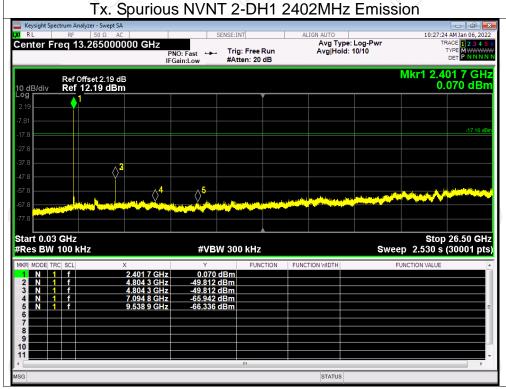




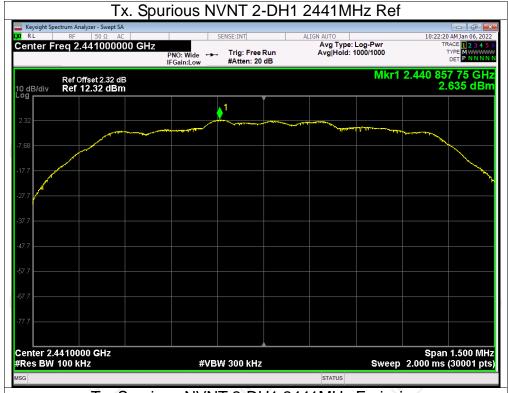


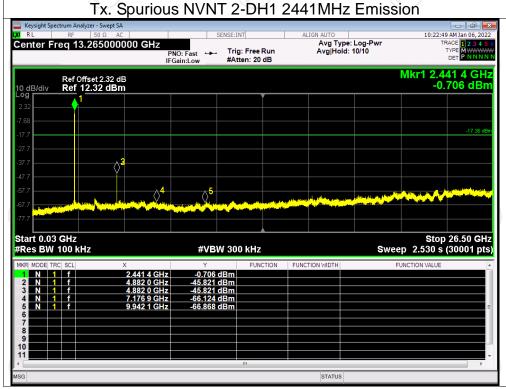






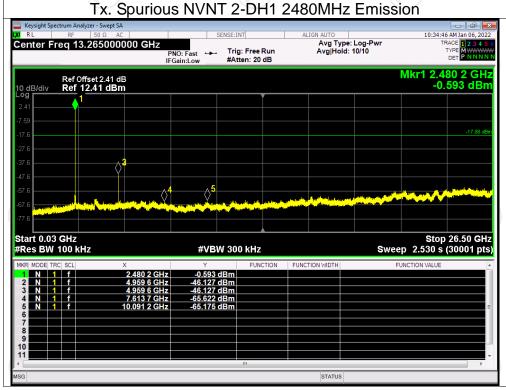




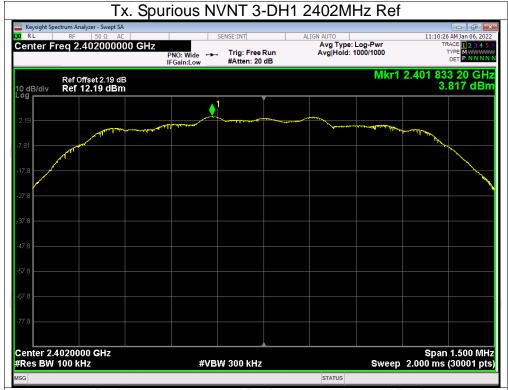


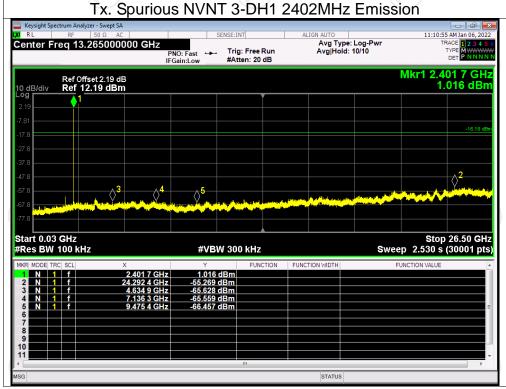






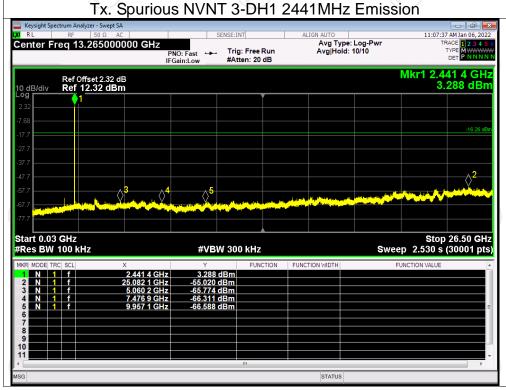




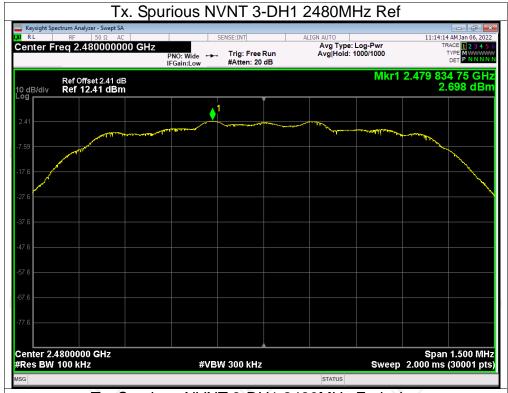


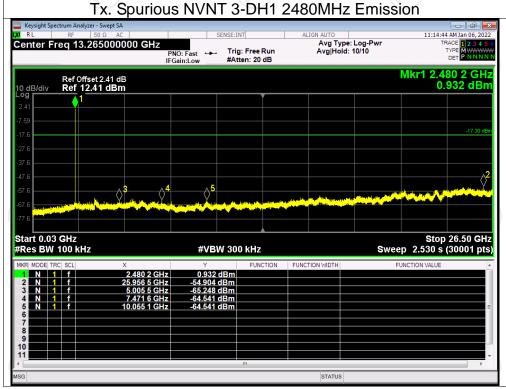














Number of Hopping Channel

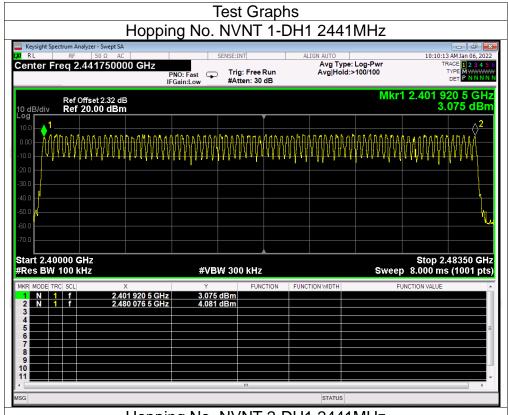
Condition	Mode	Hopping Number	Limit	Verdict
NVNT	1-DH1	79	15	Pass
NVNT	2-DH1	79	15	Pass
NVNT	3-DH1	79	15	Pass

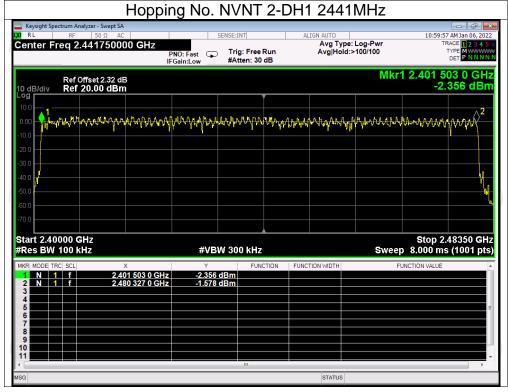




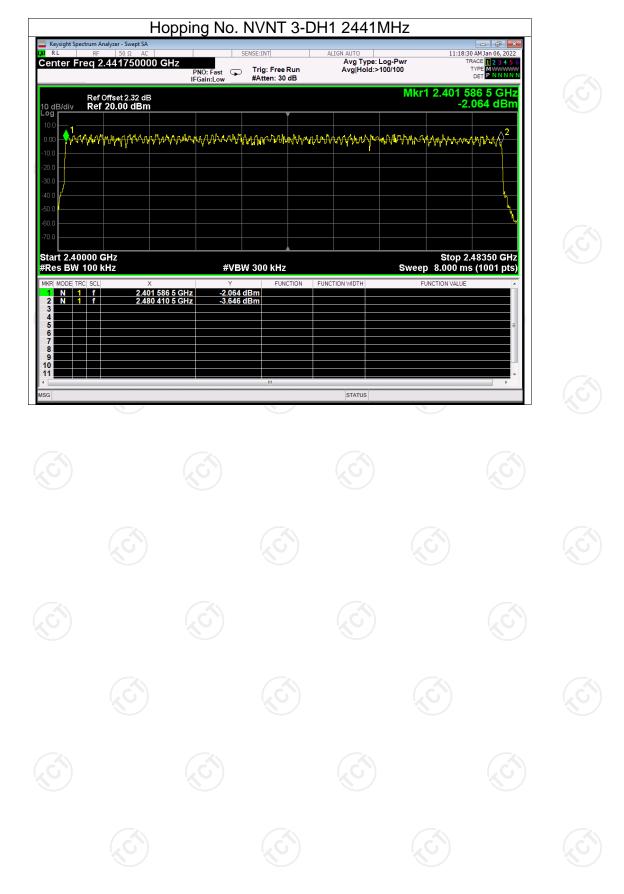














Dwell Time

Mode	Packet	Hops Over Occupancy Time (hops)	Package Transfer Time (ms)	Dwell time (second)	Limit (second)	Result
GFSK	DH1	320	0.383	0.123	0.4	PASS
GFSK	DH3	160	1.640	0.262	0.4	PASS
GFSK	DH5	106.67	2.890	0.308	0.4	PASS
Pi/4 DQPSK	2-DH1	320	0.376	0.120	0.4	PASS
Pi/4 DQPSK	2-DH3	160	1.630	0.261	0.4	PASS
Pi/4 DQPSK	2-DH5	106.67	2.890	0.308	0.4	PASS
8DPSK	3-DH1	320	0.385	0.123	0.4	PASS
8DPSK	3-DH3	160	1.630	0.261	0.4	PASS
8DPSK	3-DH5	106.67	2.890	0.308	0.4	PASS

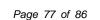
Note: 1. In normal mode, hopping rate is 1600 hops/s with 6 slots in 79 hopping channels.

For DH1, With channel hopping rate (1600 / 2 / 79) in Occupancy Time Limit (0.4 x 79) (s), Hops Over Occupancy Time comes to $(1600 / 2 / 79) \times (0.4 \times 79) = 320$ hops

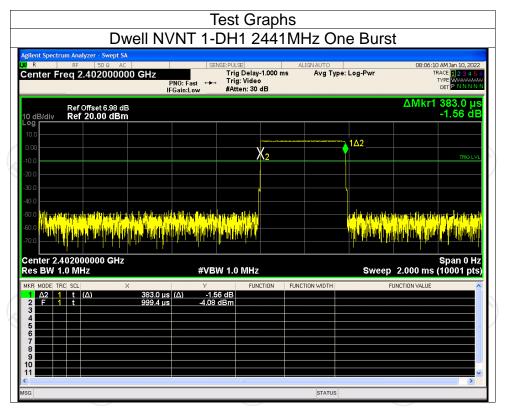
For DH3, With channel hopping rate (1600 / 4 / 79) in Occupancy Time Limit (0.4 x 79) (s), Hops Over Occupancy Time comes to $(1600 / 4 / 79) \times (0.4 \times 79) = 160$ hops

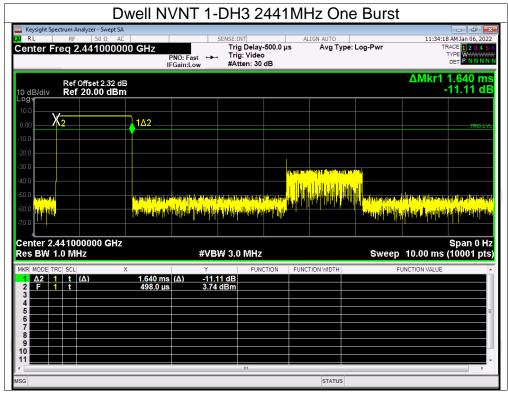
For DH5, With channel hopping rate (1600 / 6 / 79) in Occupancy Time Limit (0.4×79) (s), Hops Over Occupancy Time comes to $(1600 / 6 / 79) \times (0.4 \times 79) = 106.67$ hops

2. Dwell Time(s) = Hops Over Occupancy $Time(hops) \times Package$ Transfer Time(s) = Hops Over Occupancy

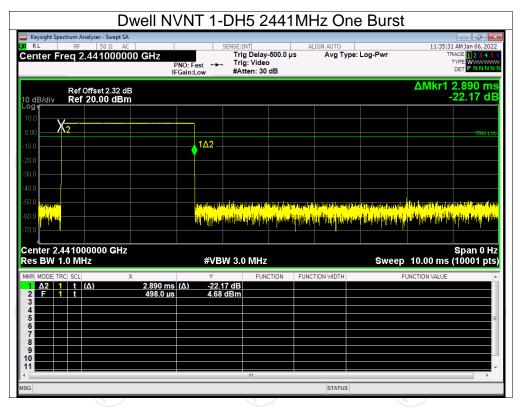


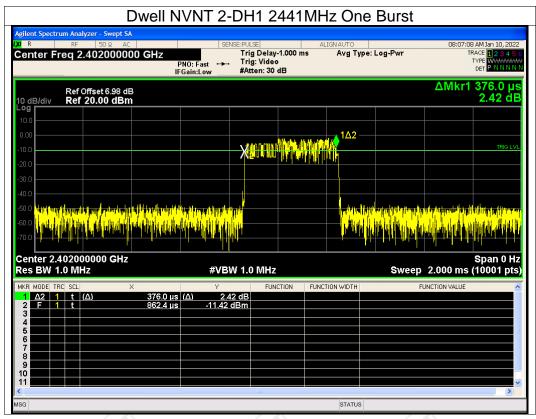




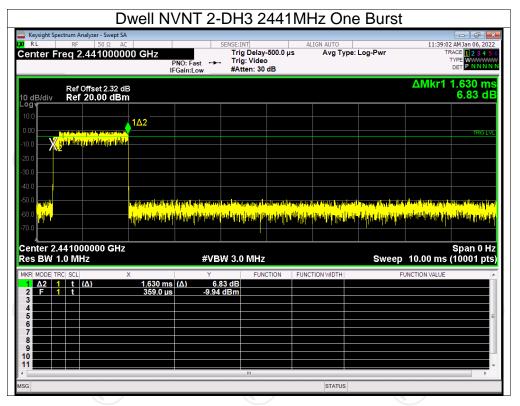


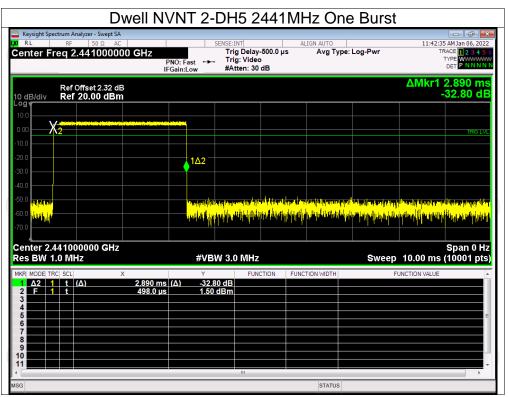




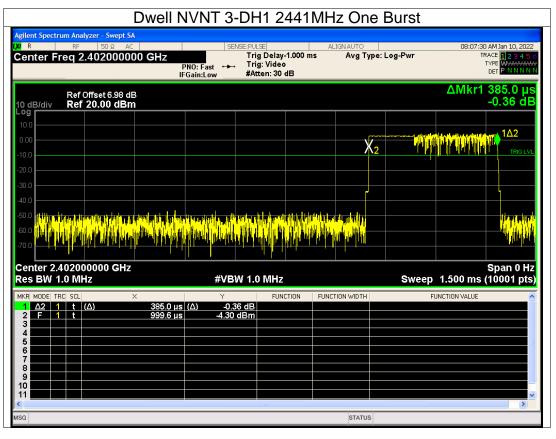


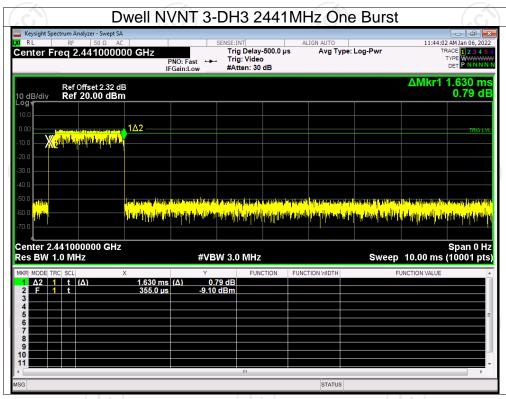




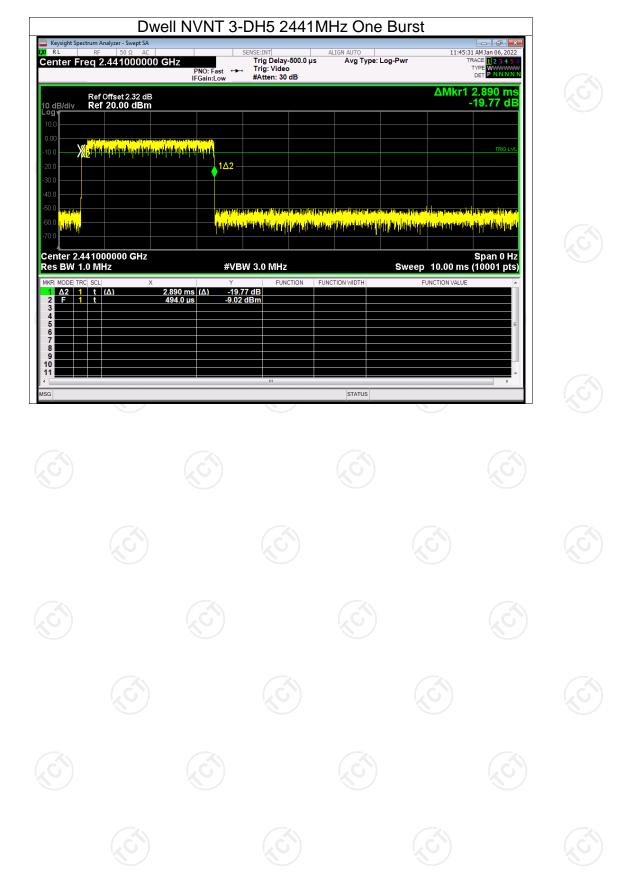








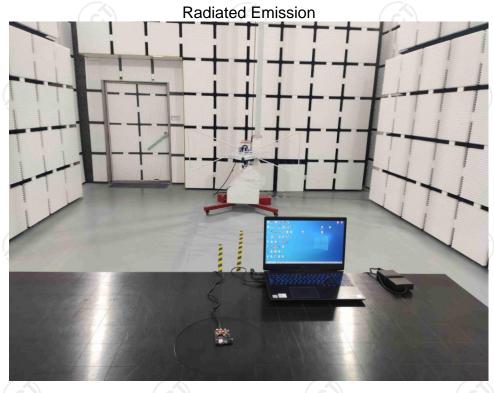


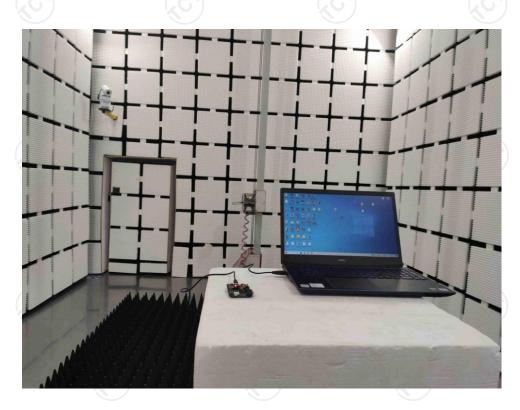




Appendix B: Photographs of Test Setup Product: IDC7 Bluetooth Module

Model: IDC747







Conducted Emission

















































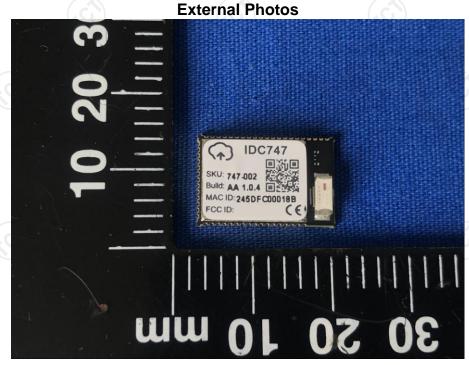


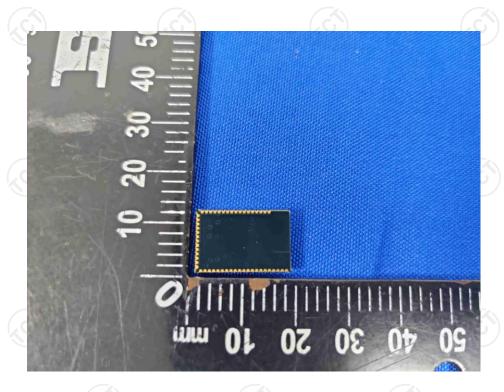




Appendix C: Photographs of EUT Product: IDC7 Bluetooth Module

Model: IDC747







Product: IDC7 Bluetooth Module Model: IDC747 Internal Photos

