

TEST REPORT							
FCC ID:	2AUARSCANSF						
Test Report No::	CT211020E060						
Date of issue::	Nov. 11, 2021	lov. 11, 2021					
Testing laboratory:	SHENZHEN TONGCE TESTING	G LAB					
Testing location/ address:	TCT Testing Industrial Park Fuq Street, Bao'an District Shenzher Republic of China	iao 5th Industrial Zone, Fuhai n, Guangdong, 518103, People's					
Applicant's name::	THINKCAR TECH CO., LTD.						
Address::	2606, building 4, phase II, Tiana Bantian, Longgang District, She						
Manufacturer's name:	THINKCAR TECH CO., LTD.	(3)					
Address::	2606, building 4, phase II, TiananYungu, Gangtou community, Bantian, Longgang District, Shenzhen, China						
Standard(s):	FCC CFR Title 47 Part 15 Subpa FCC KDB 558074 D01 15.247 N ANSI C63.10:2013						
Test item description:	THINKSCAN SF,THINKSCAN S	D					
Trade Mark:	THINKCAR						
Model/Type reference:	TKSD6, TKS10, TKSD2, TKSD4						
Rating(s)::	Rechargeable Li-ion battery DC	3.7V					
Date of receipt of test item:	Oct. 20, 2021						
Date (s) of performance of test:	Oct. 20, 2021 - Nov. 11, 2021						
Tested by (+signature):	Rleo						
Check by (+signature):	Beryl Zhao Buy Zhao TCT						
Approved by (+signature):	Tomsin Tomsin						

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	<u>(O)</u>	(0)	.3
	1.2. Model(s) list			.3
	1.3. Operation Frequency			. 4
2.	Test Result Summary	(6)	(0)	5
3.	General Information			6
	3.1. Test environment and mode		(3)	.6
	3.2. Description of Support Units			.7
4.	Facilities and Accreditations			
	4.1. Facilities		<u>(.61)</u>	.8
	4.2. Location			.8
	4.3. Measurement Uncertainty			
5.	Test Results and Measurement Data	(0)	(60)	9
	5.1. Antenna requirement			.9
	5.2. Conducted Emission			
	5.3. Maximum Conducted (Average) Output	Power	······································	11
	5.4. Emission Bandwidth			
	5.5. Power Spectral Density			16
	5.6. Conducted Band Edge and Spurious En	nission Measurem	ent	17
	5.7. Radiated Spurious Emission Measureme	ent		19
Α	ppendix A: Test Result of Conducted T	est		
Α	ppendix B: Photographs of Test Setup			
Α	ppendix C: Photographs of EUT			



1. General Product Information

Report No.:

Report No.: TCT211020E060

1.1. EUT description

Test item description:	THINKSCAN SF,THINKSCAN SD
Model/Type reference:	TKSD6
Sample Number:	TCT211020E048-0101
Operation Frequency:	2412MHz~2462MHz (802.11b/802.11g/802.11n(HT20)) 2422MHz~2452MHz (802.11n(HT40))
Channel Separation:	5MHz
Number of Channel:	11 for 802.11b/802.11g/802.11n(HT20) 7 for 802.11n(HT40)
Modulation Technology:	802.11b: Direct Sequence Spread Spectrum (DSSS) 802.11g/802.11n: Orthogonal Frequency Division Multiplexing(OFDM)
Data speed:	802.11b: 1Mbps, 2Mbps, 5.5Mbps, 11Mbps 802.11g: 6Mbps, 9Mbps, 12Mbps, 18Mbps, 24Mbps, 36Mbps, 48Mbps, 54Mbps 802.11n: Up to 150Mbps
Antenna Type:	Internal Antenna
Antenna Gain:	1dBi
Rating(s):	Rechargeable Li-ion battery DC 3.7V

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

1.2. Model(s) list

No.	Model No.	Tested with
1	TKSD6	
Other models	TKS10, TKSD2, TKSD4	

Note: TKSD6 is tested model, other models are derivative models. The models are identical in circuit and PCB layout, different on the model names. So the test data of TKSD6 can represent the remaining models.



1.3. Operation Frequency

For 802.11b/g/n(HT20)

<u> </u>	<u>9,(= 0 /</u>						
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2412MHz	4	2427MHz	7	2442MHz	10	2457MHz
2	2417MHz	5	2432MHz	8	2447MHz	11	2462MHz
3	2422MHz	6	2437MHz	9	2452MHz		

For 802.11n (HT40)

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
		4	2427MHz	7	2442MHz		
(())	<	5	2432MHz	8	2447MHz	(C))	120
3	2422MHz	6	2437MHz	9	2452MHz		

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

802.11b/802.11g/802.11n (HT20)

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

802.11n (HT40)

Channel	Frequency
The lowest channel	2422MHz
The middle channel	2437MHz
The Highest channel	2452MHz



2. Test Result Summary

Requirement	CFR 47 Section	Result
Antenna requirement	§15.203/§15.247 (c)	PASS
AC Power Line Conducted Emission	§15.207	PASS
Conducted 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.





3. General Information

3.1. Test environment and mode

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

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

We have verified the construction and function in typical operation. All the test modes were carried out with the EUT in transmitting operation, which was shown in this test report and defined as follows:

Per-scan all kind of data rate in lowest channel, and found the follow list which it was worst case.

Mode	Data rate
802.11b	1Mbps
802.11g	6Mbps
802.11n(H20)	6.5Mbps
802.11n(H40)	13.5Mbps



3.2. Description of Support Units

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

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

Note:

- 1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
- 2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.
- 3. For conducted measurements (Output Power, 6dB Emission Bandwidth, Power Spectral Density, Spurious Emissions), the antenna of EUT is connected to the test equipment via temporary antenna connector, the antenna connector is soldered on the antenna port of EUT, and the temporary antenna connector is listed in the Test Instruments.



Page 7 of 83



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 ± U, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95 %.

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



5. Test Results and Measurement Data

5.1. Antenna requirement

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

15.203 requirement:

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

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

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

E.U.T Antenna:

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



Page 9 of 83



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			
Limits:	Frequency range (MHz) 0.15-0.5 0.5-5 5-30	Limit (Quasi-peak 66 to 56* 56 60	dBuV) Average 56 to 46* 46 50			
Test Setup:	Reference Plane 40cm 80cm Filter AC power E.U.T AC power EMI Receiver Remark E.U.T: Equipment Under Test LISN: Line Impedence Stabilization Network Test table height=0.8m					
Test Mode:	Charging + transmitting with modulation					
Test Procedure:	 The E.U.T is connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs). Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10: 2013 on conducted measurement. 					
Test Result:	PASS	(6)	Re			



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

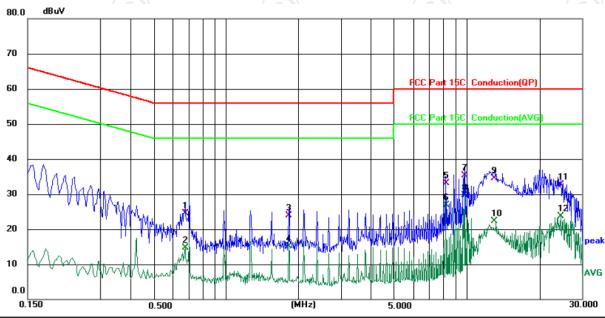




5.2.3. Test data

Please refer to following diagram for individual

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



Site 844 Shielding Room Phase: L1 Temperature: 27.5 (°C) Humidity: 56 %

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	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	0.6780	15.42	9.18	24.60	56.00	-31.40	QP	
2	0.6780	5.44	9.18	14.62	46.00	-31.38	AVG	
3	1.8260	14.49	9.41	23.90	56.00	-32.10	QP	
4	1.8260	5.79	9.41	15.20	46.00	-30.80	AVG	
5	8.1579	23.52	9.58	33.10	60.00	-26.90	QP	
6	8.1579	17.31	9.58	26.89	50.00	-23.11	AVG	
7	9.8460	25.69	9.61	35.30	60.00	-24.70	QP	
8 *	9.8460	20.00	9.61	29.61	50.00	-20.39	AVG	
9	12.9900	24.96	9.64	34.60	60.00	-25.40	QP	
10	12.9900	12.63	9.64	22.27	50.00	-27.73	AVG	
11	24.6020	22.98	9.82	32.80	60.00	-27.20	QP	
12	24.6020	13.93	9.82	23.75	50.00	-26.25	AVG	

Note:

Freq. = Emission frequency in MHz

Reading level $(dB\mu V)$ = Receiver reading

Corr. Factor (dB) = LISN factor + Cable loss

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

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

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

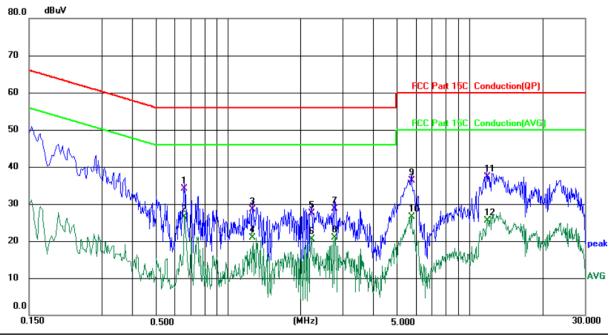
Q.P. =Quasi-Peak

AVG =average

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



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



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

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

Limit: FCC Part 15C Conduction(QP)

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.6580	24.99	9.21	34.20	56.00	-21.80	QP	
2	*	0.6580	17.36	9.21	26.57	46.00	-19.43	AVG	
3		1.2660	19.27	9.33	28.60	56.00	-27.40	QP	
4		1.2660	11.63	9.33	20.96	46.00	-25.04	AVG	
5		2.2179	18.11	9.39	27.50	56.00	-28.50	QP	
6		2.2179	11.18	9.39	20.57	46.00	-25.43	AVG	
7		2.7780	19.39	9.41	28.80	56.00	-27.20	QP	
8		2.7780	11.59	9.41	21.00	46.00	-25.00	AVG	
9		5.7580	26.80	9.50	36.30	60.00	-23.70	QP	
10		5.7580	17.08	9.50	26.58	50.00	-23.42	AVG	
11		11.8019	27.76	9.64	37.40	60.00	-22.60	QP	
12		11.8019	15.92	9.64	25.56	50.00	-24.44	AVG	

Note:

Freq. = Emission frequency in MHz

Reading level $(dB\mu V)$ = Receiver reading

Corr. Factor (dB) = LISN factor + Cable loss

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

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

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

Q.P. =Quasi-Peak

AVG =average

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





5.3. Maximum Conducted (Average) Output Power

5.3.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (b)(3)	FCC Part15 C Section 15.247 (b)(3)						
Test Method:	KDB 558074 D01 v05r02	60						
Limit:	30dBm	>.						
Test Setup:	Spectrum Analyzer EUT							
Test Mode:	Transmitting mode with modulation							
Test Procedure:	 The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. Set to the maximum power setting and enable the EUT transmit continuously. Measure the conducted output power and record the results in the test report. 							
Test Result:	PASS	·						

5.3.2. Test Instruments

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

Page 14 of 83

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



5.4. Emission Bandwidth

5.4.1. Test Specification

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

5.4.2. Test Instruments

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

Page 15 of 83



5.5. Power Spectral Density

5.5.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (e)			
Test Method:	KDB 558074			
Limit:	The average power spectral density shall not be greater than 8dBm in any 3kHz band at any time interval of continuous transmission.			
Test Setup:				
	Spectrum Analyzer EUT			
Test Mode:	Transmitting mode with modulation			
Test Procedure:	 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. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW): 3 kHz ≤ RBW ≤ 100 kHz. Video bandwidth VBW ≥ 3 x RBW. Set the spar to at least 1.5 times the OBW. Detector = RMS, Sweep time = auto couple. Employ trace averaging (RMS) mode over a minimum of 100 traces. Use the peak marker function to determine the maximum power level. Measure and record the results in the test report. 			
Test Result:	PASS			

5.5.2. Test Instruments

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



5.6. Conducted Band Edge and Spurious Emission Measurement

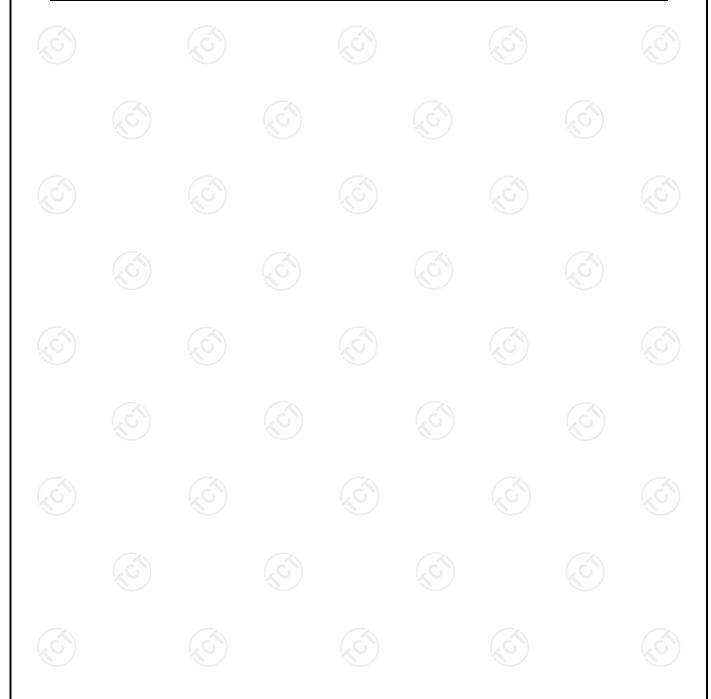
5.6.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (d)
Test Method:	KDB558074
Limit:	In any 100 kHz bandwidth outside of the authorized frequency band, the emissions which fall in the non-restricted bands shall be attenuated at least 20 dB / 30dB relative to the maximum PSD level in 100 kHz by RF conducted measurement and radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a).
Test Setup:	
Test Mode:	Spectrum Analyzer Transmitting mode with modulation
Test Procedure:	 The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. Set to the maximum power setting and enable the EUT transmit continuously. Set RBW = 100 kHz, VBW=300 kHz, Peak Detector. Unwanted Emissions measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz when maximum peak conducted output power procedure is used. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB per 15.247(d). Measure and record the results in the test report. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
Test Result:	PASS



5.6.2. Test Instruments

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

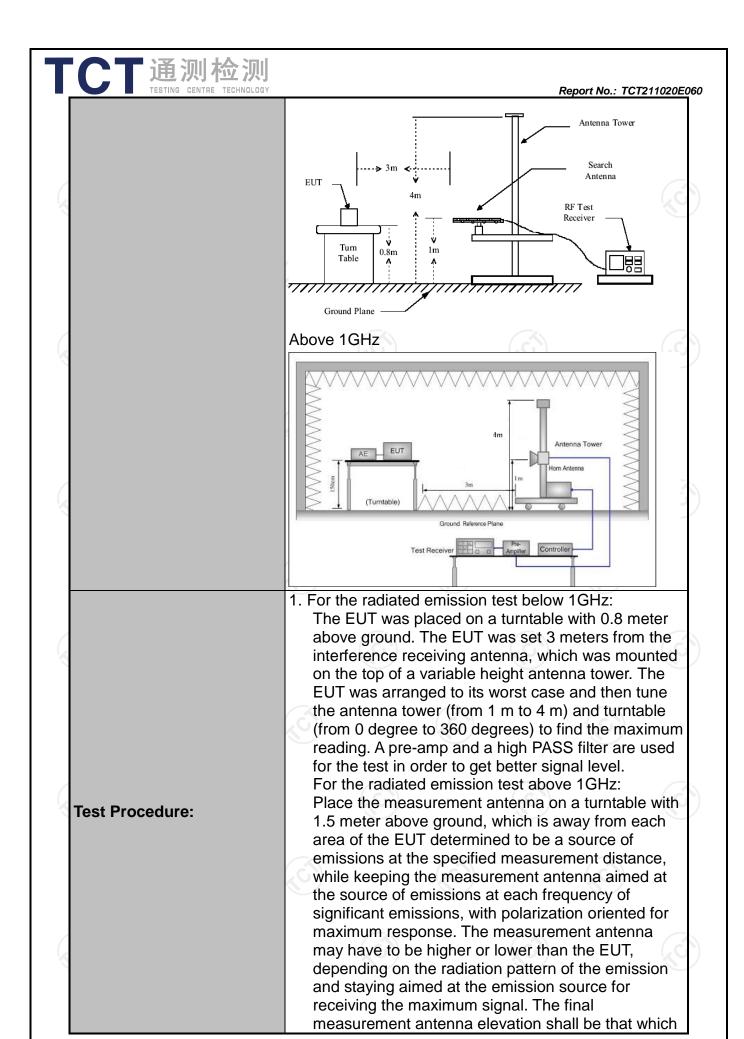




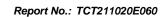
5.7. Radiated Spurious Emission Measurement

5.7.1. Test Specification

Test Requirement:	FCC Part15	C Section	15.209	(0)		ζć		
Test Method:	ANSI C63.10	0: 2013						
Frequency Range:	9 kHz to 25 (GHz						
Measurement Distance:	3 m		(0)		(60			
Antenna Polarization:	Horizontal &	Vertical						
Operation mode:	Transmitting	mode wit	h modulat	ion		C.		
	Frequency 9kHz- 150kHz 150kHz-	Detector Quasi-peal Quasi-peal		VBW 1kHz 30kHz	Quas	Remark si-peak Value si-peak Value		
Receiver Setup:	30MHz 30MHz-1GHz Above 1GHz	Quasi-peak Peak Peak		300KHz 3MHz 10Hz	Quas	si-peak Value eak Value erage Value		
Limit:	Frequen 0.009-0.4 0.490-1.7 1.705-3 30-88 88-216 216-96 Above 9 Frequency Above 1GHz	490 705 30 63 60 60 Fiel (micro	Field Str. (microvolts 2400/F(I) 24000/F(I) 30 100 150 200 500 d Strength ovolts/meter) 500 5000	k/meter) KHz) (KHz)	Dista ment ce	asurement nce (meters) 300 30 30 3 3 3 3 3 Detector Average Peak		
Test setup:		Turn table						
	30MHz to 10	GHz	(,	(C)		(c)		



一	
TESTING CENTRE TECHNOLOGY	maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane. 3. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level 4. For measurement below 1GHz, If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported. 5. Use the following spectrum analyzer settings:
	 (1) Span shall wide enough to fully capture the emission being measured; (2) Set RBW=120 kHz for f < 1 GHz; VBW ≥ RBW; Sweep = auto; Detector function = peak; Trace = max hold; (3) Set RBW = 1 MHz, VBW= 3MHz for f >1 GHz for peak measurement. For average measurement: VBW = 10 Hz, when duty cycle is no less than 98 percent. VBW ≥ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum
Test results:	power control level for the tested mode of operation. PASS





5.7.2. Test Instruments

	Radiated En	nission Test Site	e (966)	
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
EMI Test Receiver	R&S	ESIB7	100197	Jul. 07, 2022
Spectrum Analyzer	R&S	FSQ40	200061	Jul. 07, 2022
Pre-amplifier	SKET	LNPA_0118G- 45	SK2021012 102	Mar. 11, 2022
Pre-amplifier	SKET	LNPA_1840G- 50	SK2021092 03500	Apr. 08, 2022
Pre-amplifier	HP	8447D	2727A05017	Jul. 07, 2022
Loop antenna	ZHINAN	ZN30900A	12024	Sep. 05, 2022
Broadband Antenna	Schwarzbeck	VULB9163	340	Sep. 04, 2022
Horn Antenna	Schwarzbeck	BBHA 9120D	631	Sep. 04, 2022
Horn Antenna	Schwarzbeck	BBHA 9170	00956	Apr. 10, 2023
Antenna Mast	Keleto	RE-AM	N/A	N/A
Coaxial cable	SKET	RC_DC18G-N	N/A	Apr. 08, 2022
Coaxial cable	SKET	RC-DC18G-N	N/A	Apr. 08, 2022
Coaxial cable	SKET	RC-DC40G-N	N/A	Jul. 07, 2022
EMI Test Software	Shurple Technology	EZ-EMC	N/A	N/A

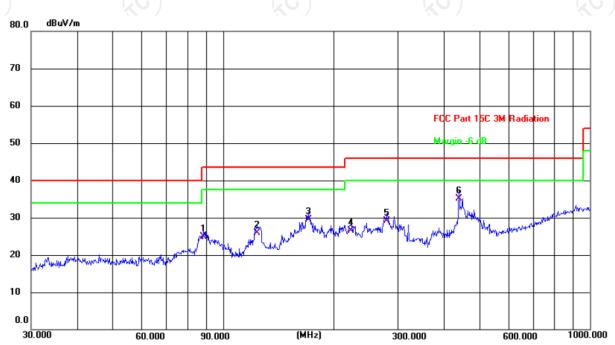


5.7.3. Test Data

Please refer to following diagram for individual

Below 1GHz





Site #2 Polarization: Horizontal Temperature: 24.3(C)
Limit: FCC Part 15C 3M Radiation Power: DC 3.7 V Humidity: 54 %

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	88.6524	15.66	9.25	24.91	43.50	-18.59	QP	Р	
2	123.6984	13.69	12.19	25.88	43.50	-17.62	QP	Р	
3	170.7923	17.19	12.27	29.46	43.50	-14.04	QP	Р	
4	222.9500	14.96	11.63	26.59	46.00	-19.41	QP	Р	
5	280.0237	14.86	14.19	29.05	46.00	-16.95	QP	Р	
6 *	440.1961	17.09	18.11	35.20	46.00	-10.80	QP	Р	

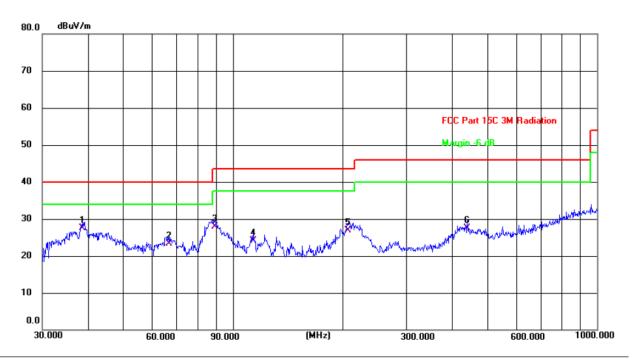




Humidity:

54 %

Vertical:



Site #2 Polarization: Vertical Temperature: 24.3(C)

Power:

DC 3.7 V

Limit: FCC Part 15C 3M Radiation

									<u> </u>
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector	P/F	Remark
1 *	38.7516	13.72	13.80	27.52	40.00	-12.48	QP	Р	
2	66.9668	11.60	11.72	23.32	40.00	-16.68	QP	Р	
3	89.2762	18.59	9.25	27.84	43.50	-15.66	QP	Р	
4	113.7142	12.63	11.46	24.09	43.50	-19.41	QP	Р	
5	207.1225	16.27	10.69	26.96	43.50	-16.54	QP	Р	
6	440.1961	9.40	18.11	27.51	46.00	-18.49	QP	Р	

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

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

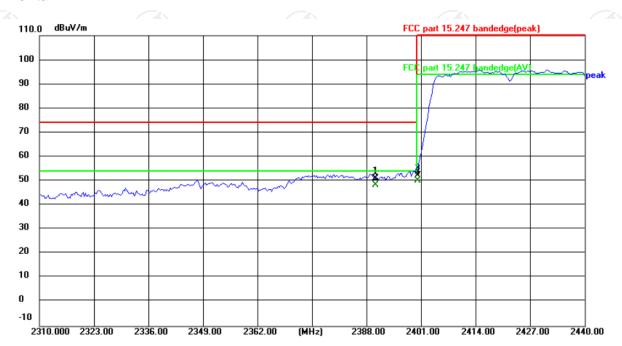
* is meaning the worst frequency has been tested in the test frequency range



Test Result of Radiated Spurious at Band edges

Lowest channel 2422:

Horizontal:



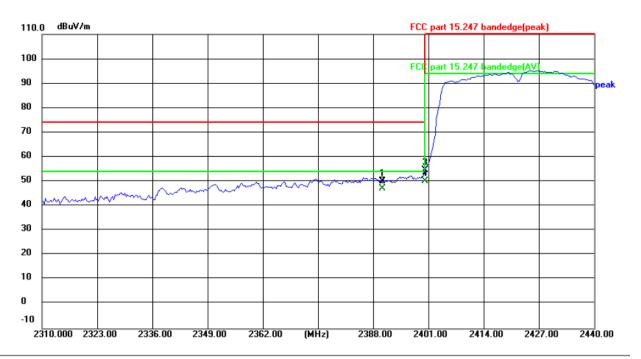
Site Polarization: Horizontal Temperature: 24(°C)
Limit: FCC part 15.247 bandedge(peak) Power: DC 3.7 V Humidity: 52 %

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2390.000	66.02	-14.99	51.03	74.00	-22.97	peak
2	2390.000	63.35	-14.99	48.36	54.00	-5.64	AVG
3	2400.000	67.11	-14.95	52.16	74.00	-21.84	peak
4 *	2400.000	65.01	-14.95	50.06	54.00	-3.94	AVG



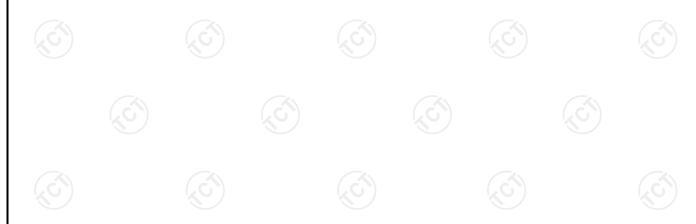


Vertical:



Site Polarization: Vertical Temperature: $24(^{\circ}\text{C})$ Limit: FCC part 15.247 bandedge(peak) Power: DC 3.7 V Humidity: 52%

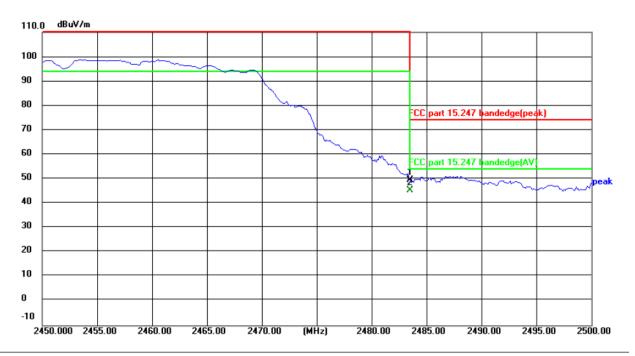
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2390.000	65.06	-14.99	50.07	74.00	-23.93	peak
2	2390.000	62.25	-14.99	47.26	54.00	-6.74	AVG
3	2400.000	69.75	-14.95	54.80	74.00	-19.20	peak
4 *	2400.000	65.11	-14.95	50.16	54.00	-3.84	AVG





Highest channel 2452:

Horizontal:



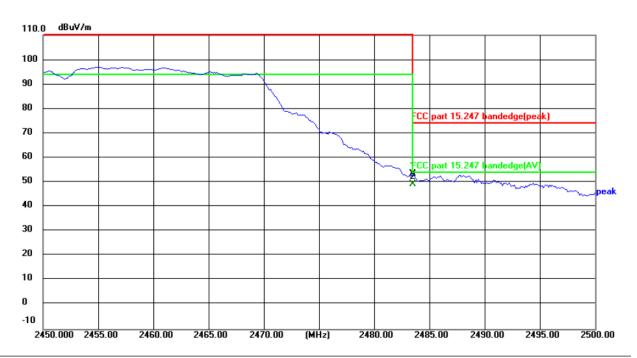
Site Polarization: Horizontal Temperature: 24(°C)
Limit: FCC part 15.247 bandedge(peak) Power: DC 3.7 V Humidity: 52 %

No.	Frequency (MHz)			Level (dBuV/m)	Limit (dBuV/m)		Detector
1	2483.500	64.19	-14.58	49.61	74.00	-24.39	peak
2 *	2483.500	59.86	-14.58	45.28	54.00	-8.72	AVG





Vertical:



Site Polarization: Vertical Temperature: 24(°C)
Limit: FCC part 15.247 bandedge(peak) Power: DC 3.7 V Humidity: 52 %

No.	Frequency (MHz)			Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2483.500	68.09	-14.58	53.51	74.00	-20.49	peak
2 *	2483.500	63.84	-14.58	49.26	54.00	-4.74	AVG

Note:

- 1. Peak Final Emission Level=Peak Reading + Correction Factor;
- 2. Correction Factor= Antenna Factor + Cable loss Pre-amplifier
- 3. Measurements were conducted in all modulation(802.11b, 802.11g, 802.11n(HT20), 802.11n(HT40)), and the worst case Mode 802.11n(HT40)) was submitted only.





Above 1GHz Modulation Type: 802.11b

Report No.: TCT211020E060

1	100ddiadio11 1 y po. 602.1 1 b											
	Low channel: 2412 MHz											
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBuV)	Correction Factor (dB/m)	Emission Peak (dBµV/m)	n Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)			
4824	Н	45.42		0.75	46.17	(74	54	-7.83			
7236	Н	35.66		9.87	45.53		74	54	-8.47			
	Н											
4824	V	44.36		0.75	45.11		74	54	-8.89			
7236	V	33.95	4, C	9.87	43.82	O`)	74	54	-10.18			
	V					<u> </u>						

	Middle channel: 2437MHz											
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)	Emission Peak (dBµV/m)	n Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)			
4874	Н	44.88		0.97	45.85		74	54	-8.15			
7311	Н	35.94		9.83	45.77		74	54	-8.23			
	H		(_^					(4)				
	KO)		KO)	K			KO)				
4874	V	44.26		0.97	45.23		74	54	-8.77			
7311	V	34.79		9.83	44.62		74	54	-9.38			
	V											

			Н	ligh channe	l: 2462 MH	Z			
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)	Emission Peak (dBµV/m)	n Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
4924	H	43.38	/ . c .	1.18	44.56	<u> </u>	74	54	-9.44
7386	H	34.19		10.07	44.26		74	54	-9.74
	Η								
4924	V	45.93		1.18	47.11		74	54	-6.89
7386	V	34.46		10.07	44.53		74	54	-9.47
	V				/		<u></u>		

Note:

- 1. Emission Level=Peak Reading + Correction Factor; Correction Factor= Antenna Factor + Cable loss Pre-amplifier
- 2. Margin (dB) = Emission Level (Peak) (dB μ V/m)-Average limit (dB μ V/m)
- 3. The emission levels of other frequencies are very lower than the limit and not show in test report.
- 4. Measurements were conducted from 1 GHz to the 10th harmonic of highest fundamental frequency. The highest test frequency is 25GHz.
- 5. Data of measurement shown "---"in the above table mean that the reading of emissions is attenuated more than 20 dB below the limits or the field strength is too small to be measured.
- 6. All the restriction bands are compliance with the limit of 15.209.





Modulation Type: 802.11g

			IVI	odulation i	ype. ouz. i	ıy			
			L	ow channe	I: 2412 MH	Z			
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBuV)	Correction Factor (dB/m)	Emission Peak (dBµV/m)	AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
4824	Н	44.81		0.75	45.56		74	54	-8.44
7236	Н	34.69		9.87	44.56		74	54	-9.44
	Н				<i></i>		<u></u>		
4824	V	43.14		0.75	43.89		74	54	-10.11
7236	V	33.98	/	9.87	43.85		74	54	-10.15
	V		4,0		(2	O ')		(, C <u>-</u>)	

			М	iddle chann	el: 2437MH	łz			
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)	Emission Peak (dBµV/m)	n Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
4874	Η	44.27		0.97	45.24		74	54	-8.76
7311	Н	34.11		9.83	43.94		74	54	-10.06
	Н								
4874	V	44.78		0.97	45.75)	74	54	-8.25
7311	V	35.03		9.83	44.86		74	54	-9.14
	V								

(.c.)			H	ligh channe	el: 2462 MH	Z			
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)	Emissic Peak (dBµV/m)	n Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
4924	H	43.95		1.18	45.13		74	54	-8.87
7386	H	35.74	f.c3	10.07	45.81	<u></u>	74	54	-8.19
	H			/				/	
4924	V	45.46		1.18	46.64		74	54	-7.36
7386	V	34.25		10.07	44.32		74	54	-9.68
(/ (-))	V	(- 0,		(, ((``(∠C -}		Ć.

Note:

- 1. Emission Level=Peak Reading + Correction Factor; Correction Factor= Antenna Factor + Cable loss Pre-amplifier
- 2. Margin (dB) = Emission Level (Peak) (dB μ V/m)-Average limit (dB μ V/m)
- 3. The emission levels of other frequencies are very lower than the limit and not show in test report.
- 4. Measurements were conducted from 1 GHz to the 10th harmonic of highest fundamental frequency. The highest test frequency is 25GHz.
- 5. Data of measurement shown "---"in the above table mean that the reading of emissions is attenuated more than 20 dB below the limits or the field strength is too small to be measured.
- 6. All the restriction bands are compliance with the limit of 15.209.





Modulation Type: 802.11n (HT20)

			Modu	аноп туре.	. 002.1111 (1	1120)			
			L	ow channe	I: 2412 MH	Z			
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBuV)	Correction Factor (dB/m)	Emission Peak (dBµV/m)	AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
4824	H	45.81		0.75	46.56		74	54	-7.44
7236	Ι	36.34		9.87	46.21		74	54	-7.79
	Η)		1		
4824	V	45.17		0.75	45.92		74	54	-8.08
7236	V	35.02		9.87	44.89		74	54	-9.11
	V		1,50	")	/2	(C))		(, C)	

			М	iddle chann	el: 2437MH	łz			
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)	Emission Peak (dBµV/m)	n Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
4874	Н	44.95		0.97	45.92		74	54	-8.08
7311	Н	35.66		9.83	45.49		74	54	-8.51
	Н								
4874	V	44.46		0.97	45.43	9)	74	54	-8.57
7311	V	34.30		9.83	44.13		74	54	-9.87
	V								

(G)		(.6)) H	ligh channe	l: 2462 MH	Z	(.c)		(.c)
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)	Emission Peak (dBµV/m)	n Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
4924	T	44.34		1.18	45.52		74	54	-8.48
7386	H	35.50	/ . c]	10.07	45.57	<u></u>	74	54	-8.43
	Н			/	``	<u></u>		\(\frac{1}{2}\)	
4924	V	42.75		1.18	43.93		74	54	-10.07
7386	V	34.19		10.07	44.26		74	54	-9.74
(~ C -,)	V	1, 0		(20	·		∠O : }		(~ C))

Note:

- 1. Emission Level=Peak Reading + Correction Factor; Correction Factor= Antenna Factor + Cable loss Pre-amplifier
- 2. Margin (dB) = Emission Level (Peak) (dB μ V/m)-Average limit (dB μ V/m)
- 3. The emission levels of other frequencies are very lower than the limit and not show in test report.
- 4. Measurements were conducted from 1 GHz to the 10th harmonic of highest fundamental frequency. The highest test frequency is 25GHz.
- 5. Data of measurement shown "---"in the above table mean that the reading of emissions is attenuated more than 20 dB below the limits or the field strength is too small to be measured.
- 6. All the restriction bands are compliance with the limit of 15.209.





Modulation Type: 802.11n (HT40)

			IVIOUU	іапоп туре.	002.1111(1	1140)			
			L	ow channe	I: 2422 MH:	Z			
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBuV)	Correction Factor (dB/m)	Emission Peak (dBµV/m)	n Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
4844	Н	43.48		0.75	44.23		74	54	-9.77
7266	Н	34.02		9.87	43.89	(74	54	-10.11
	Н				J				
4824	V	45.79		0.75	46.54		74	54	-7.46
7236	V	36.38	/ /	9.87	46.25		74	54	-7.75
	V		420	*)	🗶	O')		(<u>/</u> C)	

			М	iddle chann	el: 2437MH	łz			
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)	Emission Peak (dBµV/m)	n Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
4874	Н	44.39		0.97	45.36		74	54	-8.64
7311	Н	36.21		9.83	46.04		74	54	-7.96
	Н								
4874	V	46.32		0.97	47.29	9)	74	54	-6.71
7311	V	35.89		9.83	45.72		74	54	-8.28
	V								

(G)		(.6)) H	ligh channe	l: 2452 MH	Z	(.c)		(.c)
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)	Emission Peak (dBµV/m)	n Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
4904	T	45.81		1.18	46.99		74	54	-7.01
7356	H	36.55	f . c .	10.07	46.62	<u></u>	74	54	-7.38
	H			/	``)			
4904	V	44.76		1.18	45.94		74	54	-8.06
7356	V	34.24		10.07	44.31		74	54	-9.69
(\leftarrow)	V	1, 0		(, (·		∠O : }		(~ C))

Note:

- 1. Emission Level=Peak Reading + Correction Factor; Correction Factor= Antenna Factor + Cable loss Pre-amplifier
- 2. Margin (dB) = Emission Level (Peak) (dB μ V/m)-Average limit (dB μ V/m)
- 3. The emission levels of other frequencies are very lower than the limit and not show in test report.
- 4. Measurements were conducted from 1 GHz to the 10th harmonic of highest fundamental frequency. The highest test frequency is 25GHz.
- 5. Data of measurement shown "---"in the above table mean that the reading of emissions is attenuated more than 20 dB below the limits or the field strength is too small to be measured.
- 6. All the restriction bands are compliance with the limit of 15.209.



Page 32 of 83

Report No.: TCT211020E060

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

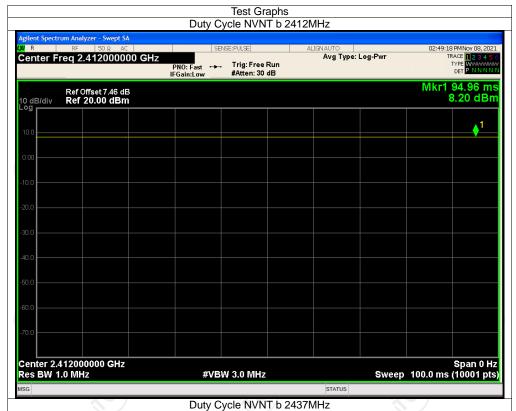


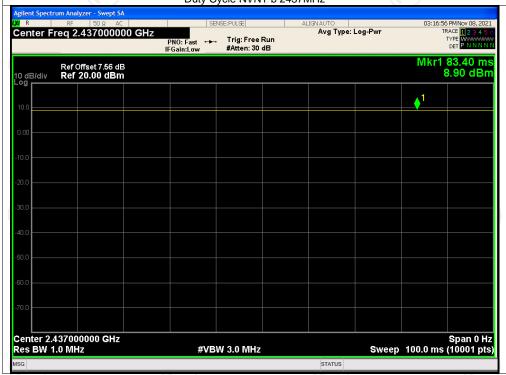
Appendix A: Test Result of Conducted Test

Duty Cycle

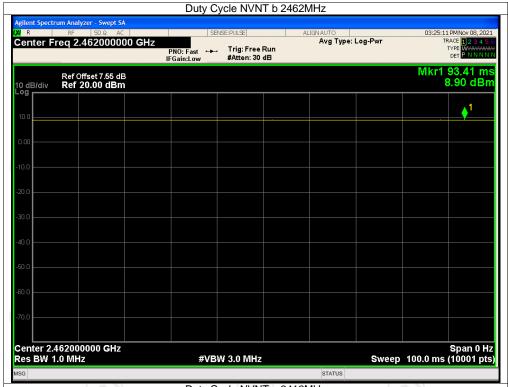
	Condition	Mode	Frequency (M	Hz)	Duty Cycle (%)	
	NVNT	b	2412		100		
	NVNT	b	2437		100		
	NVNT	b	2462		100		
	NVNT	g	2412		100	- 2.	
(.c	NVNT	g	2437	(G)	100		
	NVNT	g = 20	2462		100		
	NVNT NVNT	n20 n20	2412 2437		100 100		
	NVNT	n20	2462		100		
	NVNT	n40	2422		100		
	NVNT	n40	2437		100		
	NVNT	n40	2452		100		

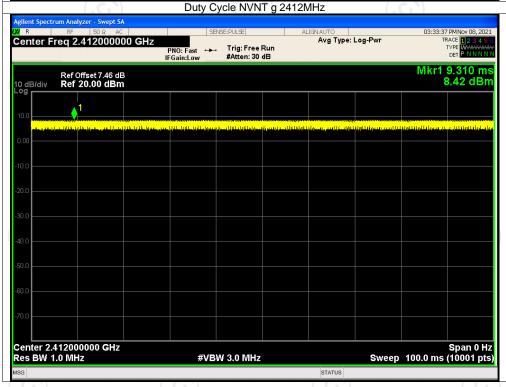




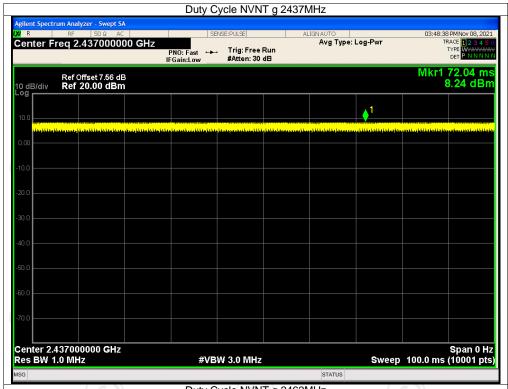


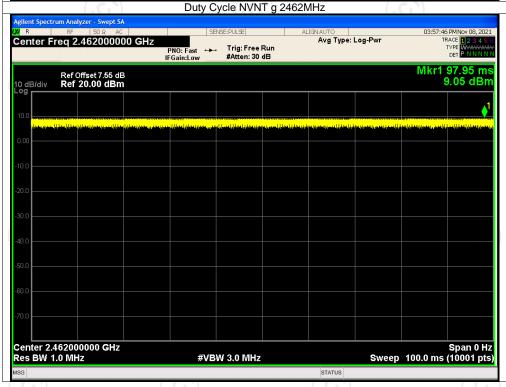




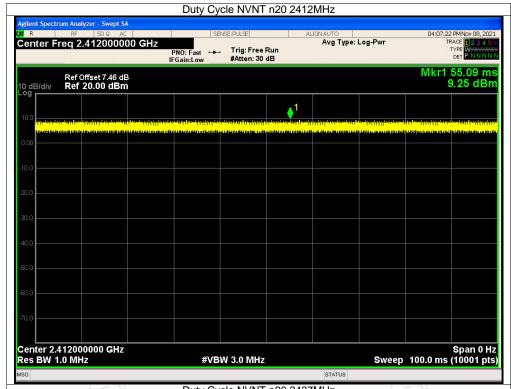


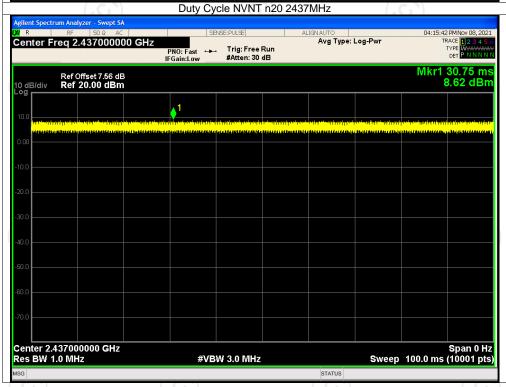




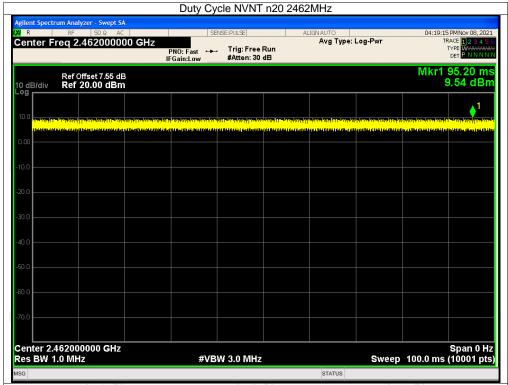


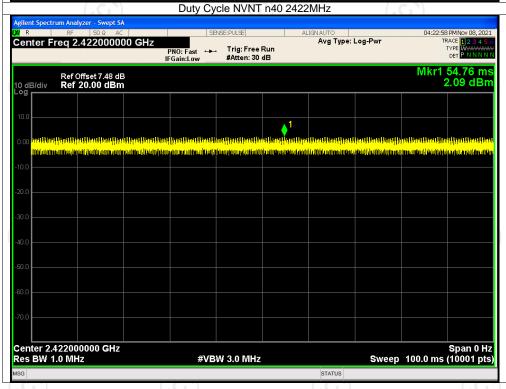




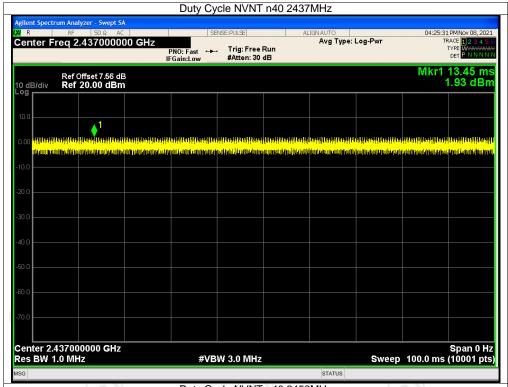


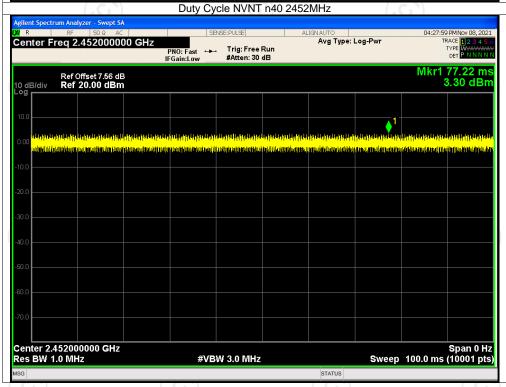










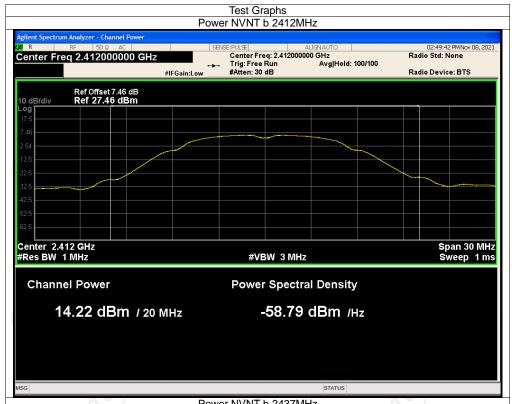


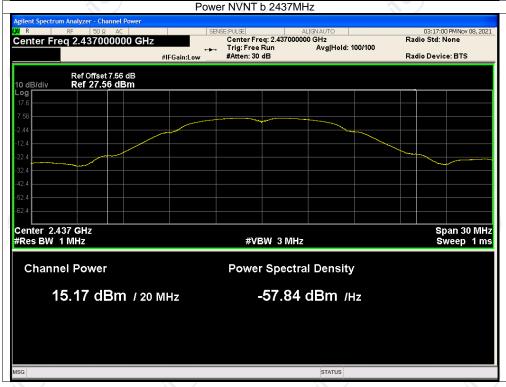


Maximum Conducted Outpu	ut Power
-------------------------	----------

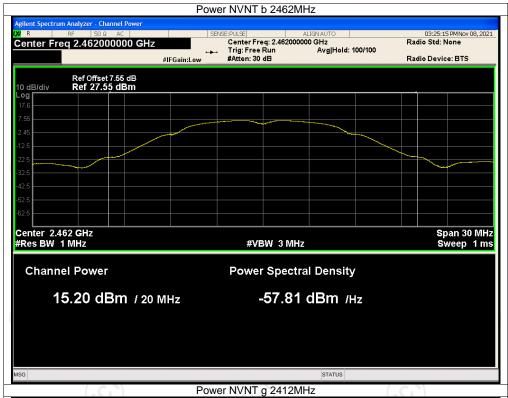
Condition	Mode	Frequency (MHz)		nducted er (dBm)	Limit (dBm)	Verdict	
NVNT	b	2412		4.218	30	Pass	
NVNT	b	2437		5.174	30	Pass	
NVNT	b	2462	1	5.200	30	Pass	
NVNT	g	2412	1	3.192	30	Pass	
NVNT	g	2437		3.178	30	Pass	
NVNT	g	2462		3.897	30	Pass	
NVNT	n20	2412		3.201	30	Pass	
NVNT	n20	2437		2.785	30	Pass	
NVNT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

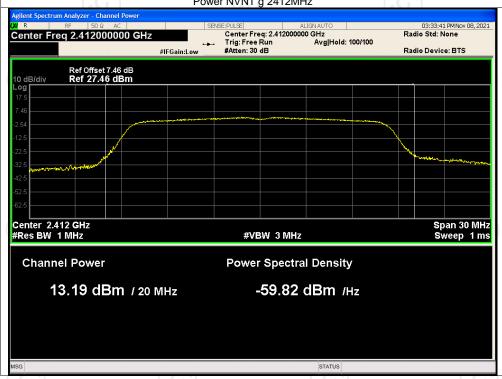




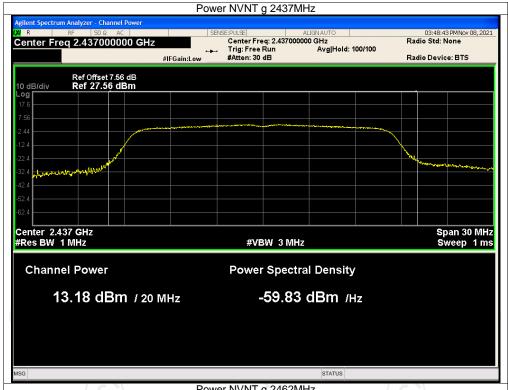


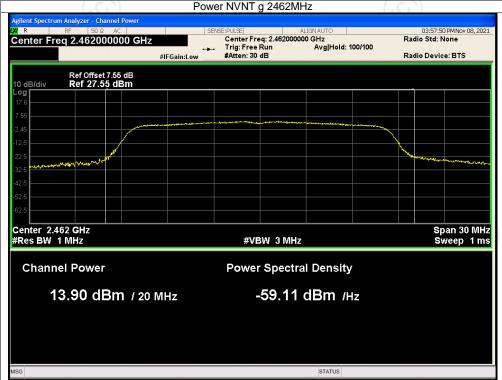




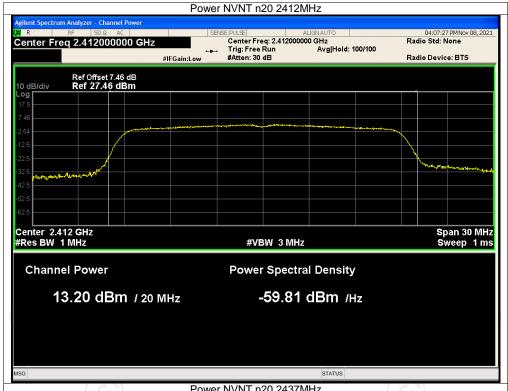


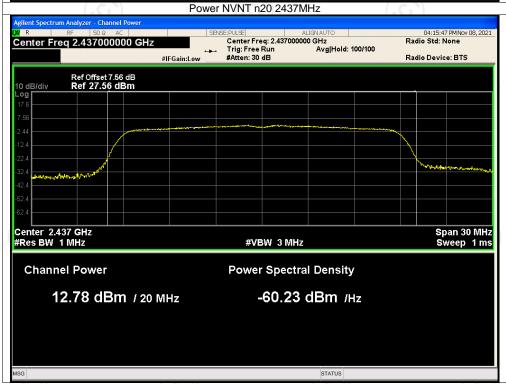




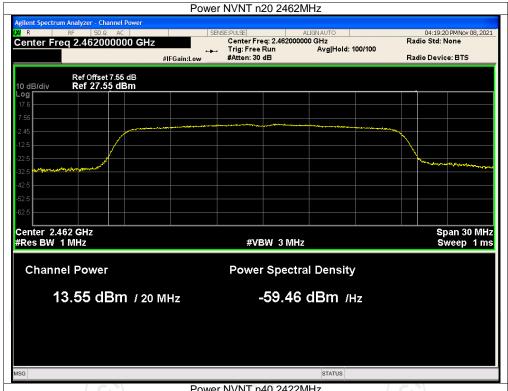


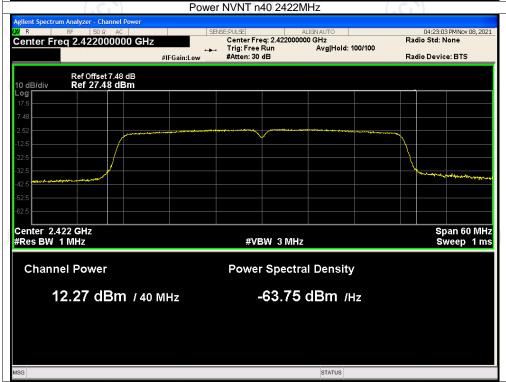




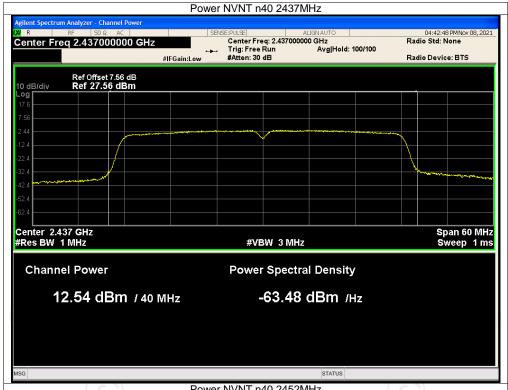


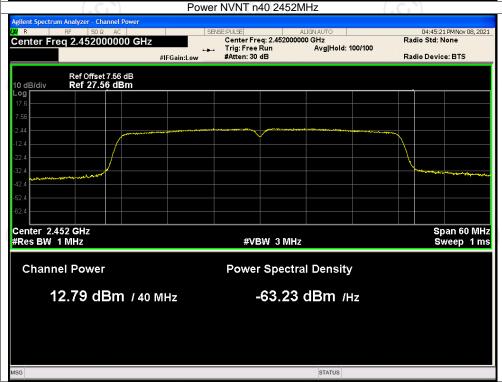














-6dB Bandwidth

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







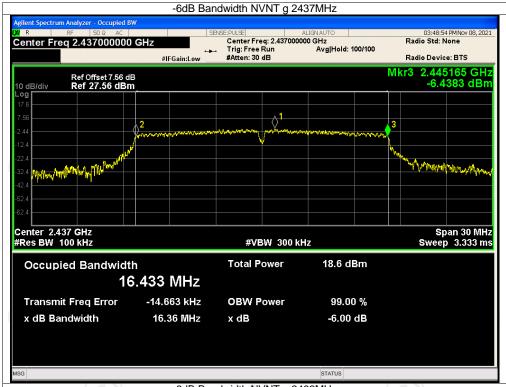






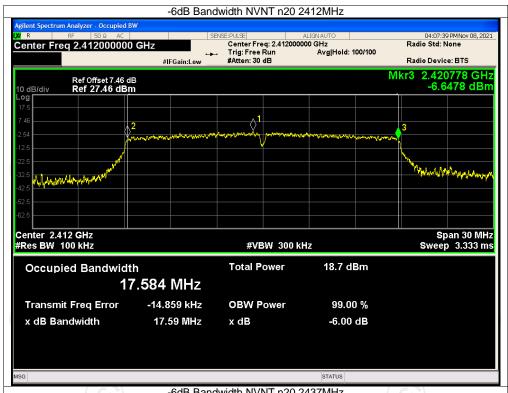


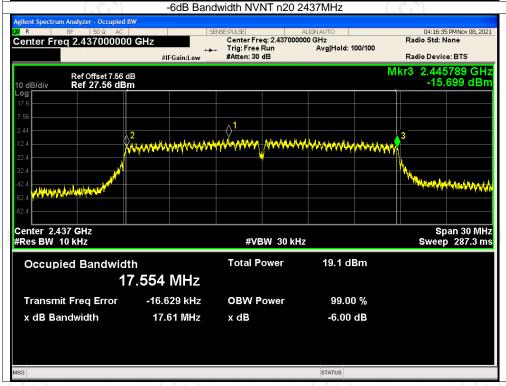




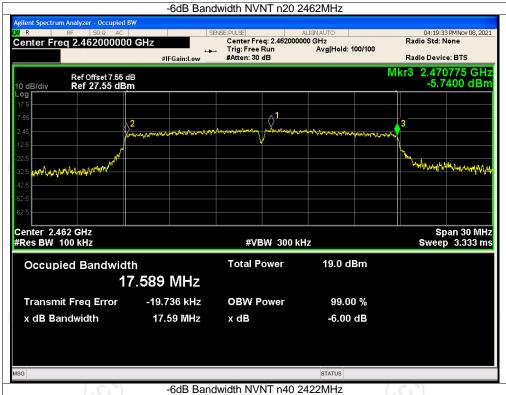


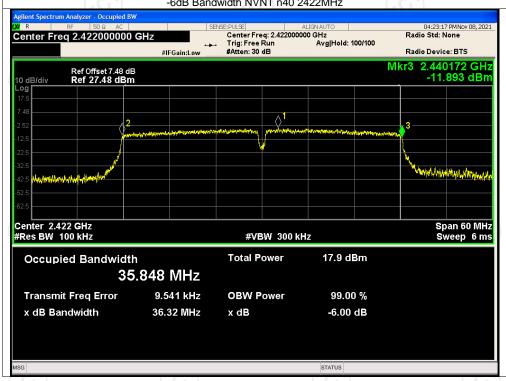




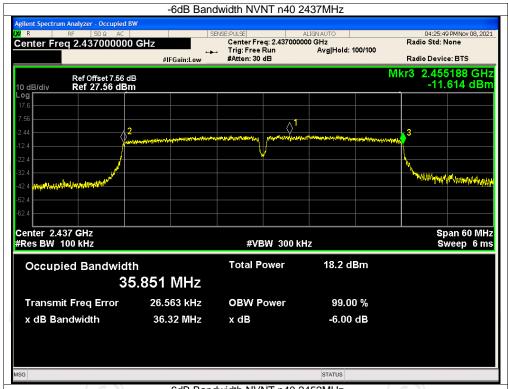
















Maximum Power Spectral Density Level

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







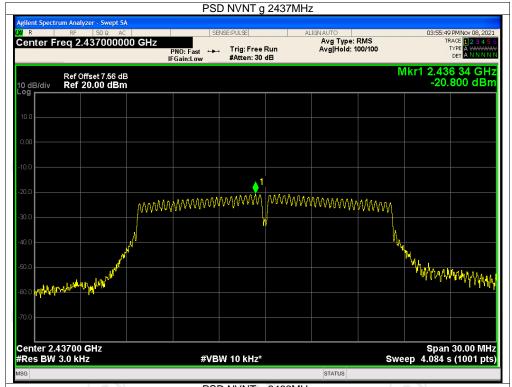


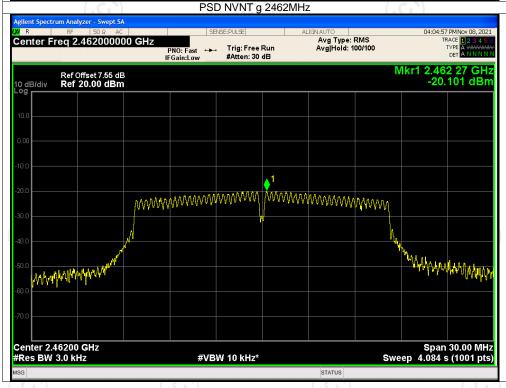




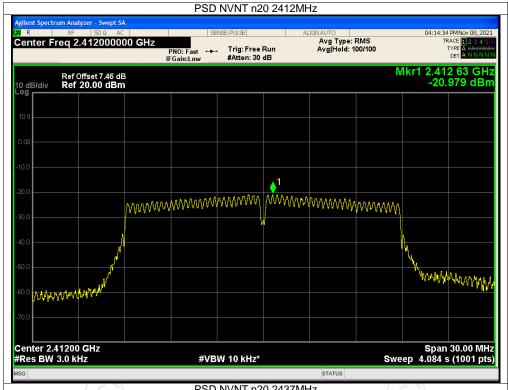


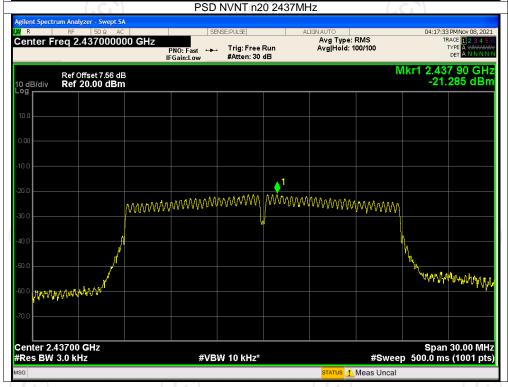




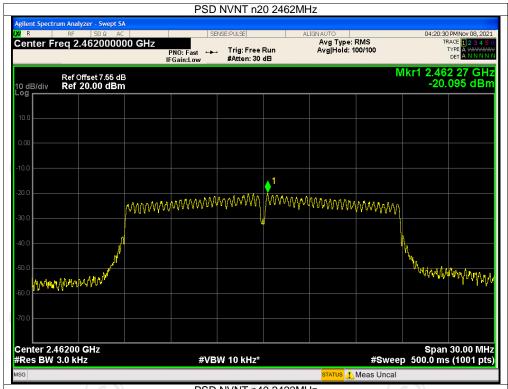


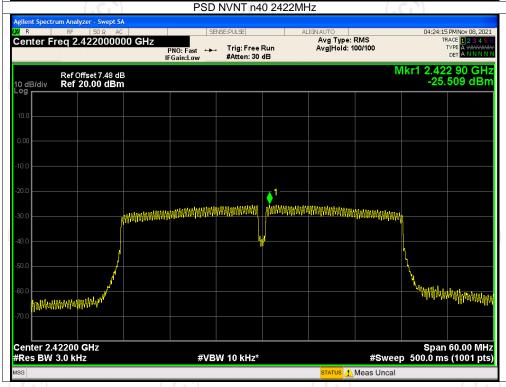




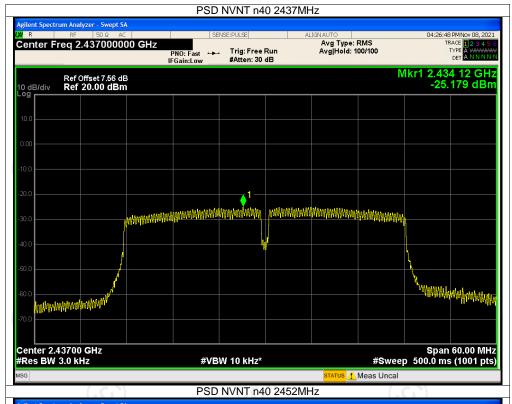


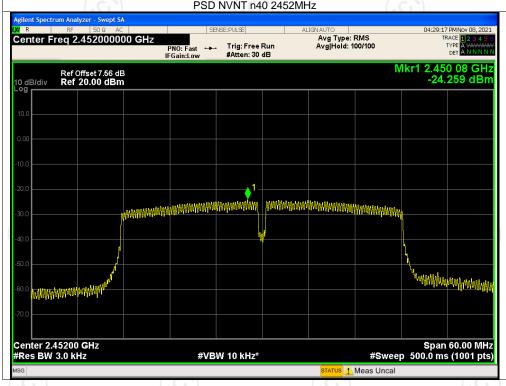








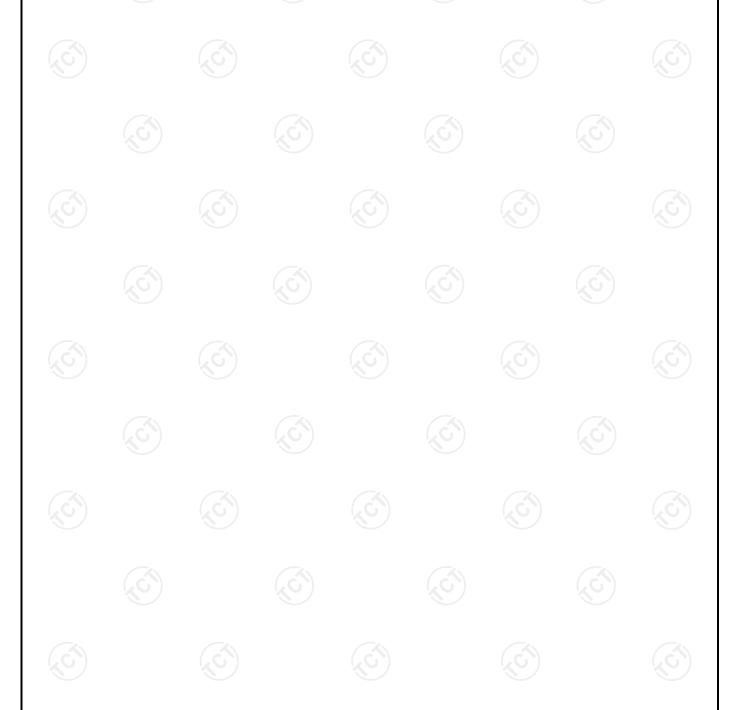




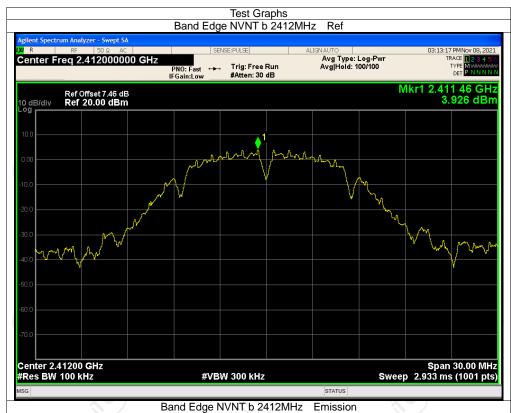


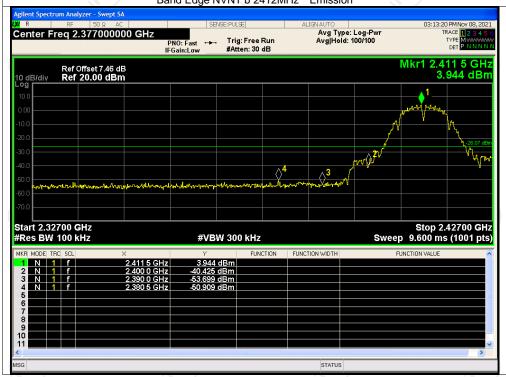
Band Edge

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













FUNCTION WIDTH

STATUS

FUNCTION VALUE

FUNCTION



















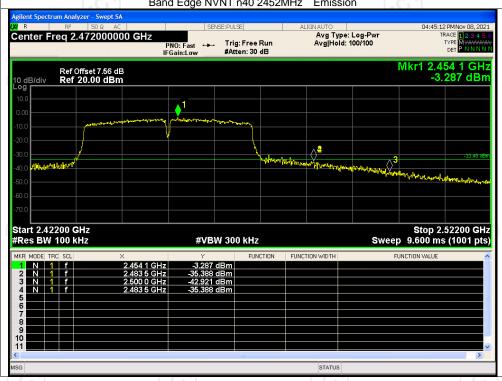














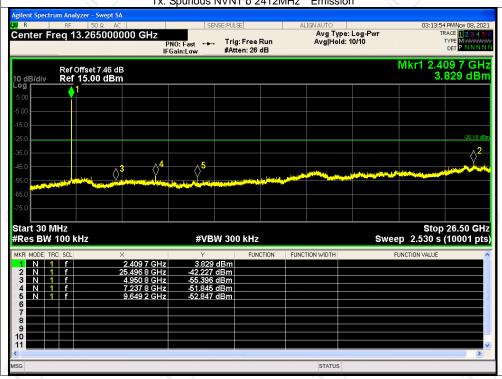
Conducted RF Spurious Emission

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

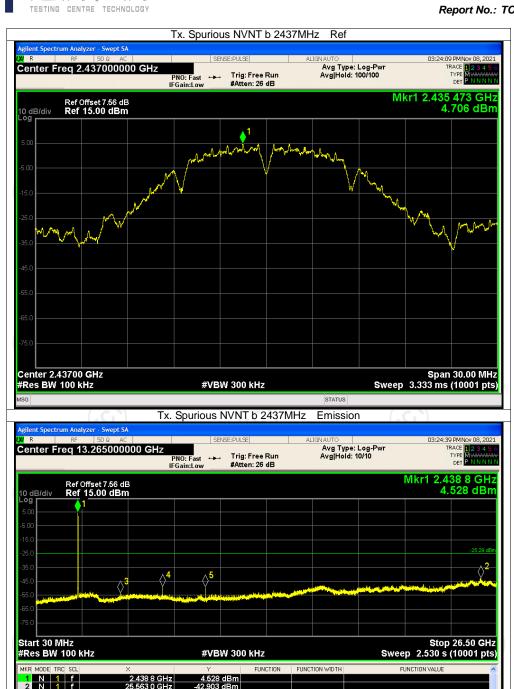




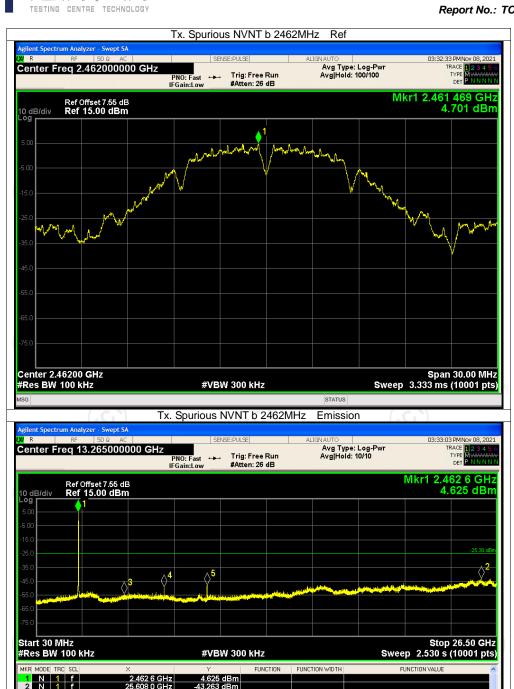




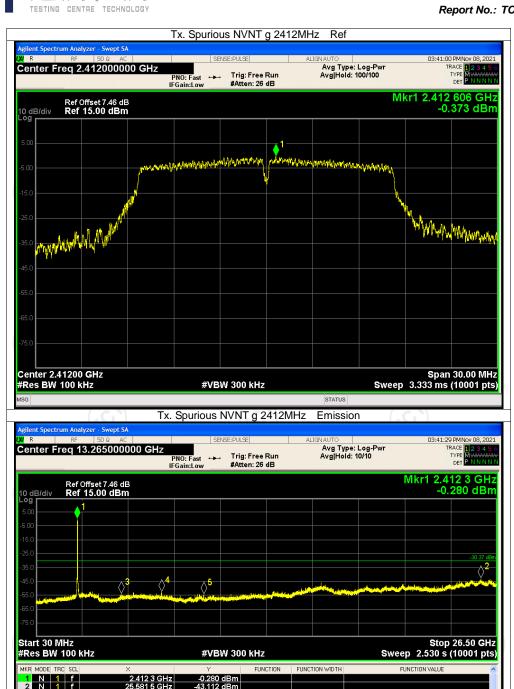








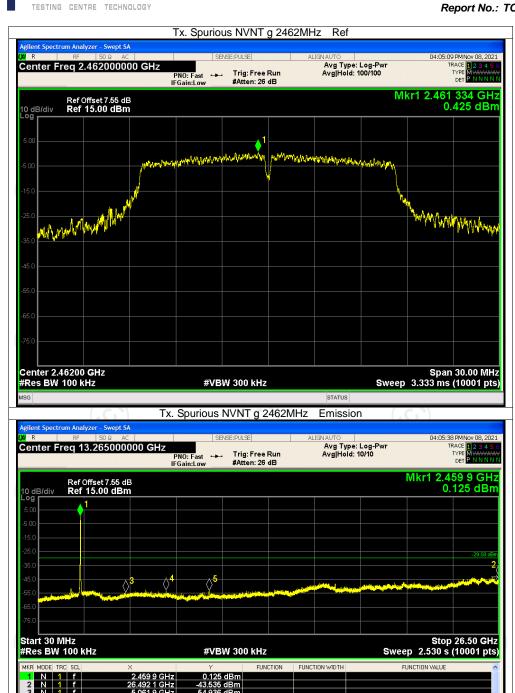




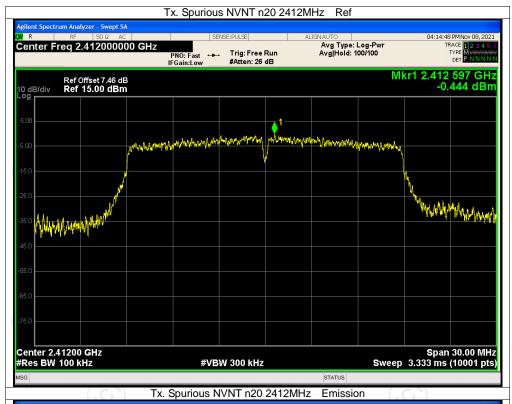


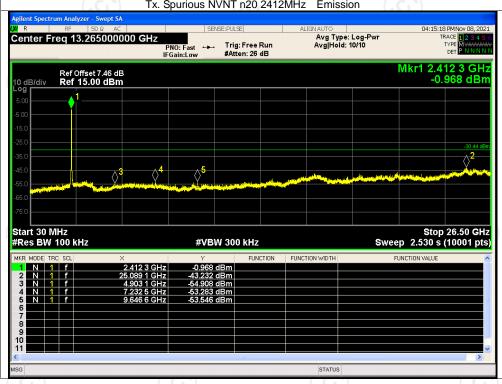






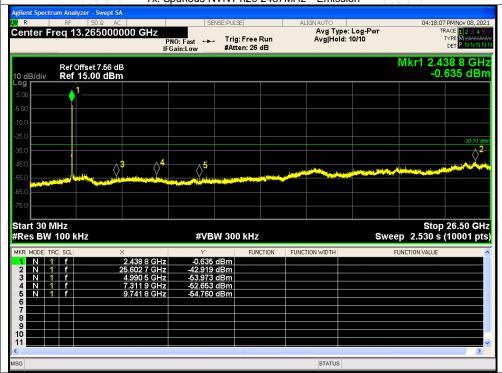




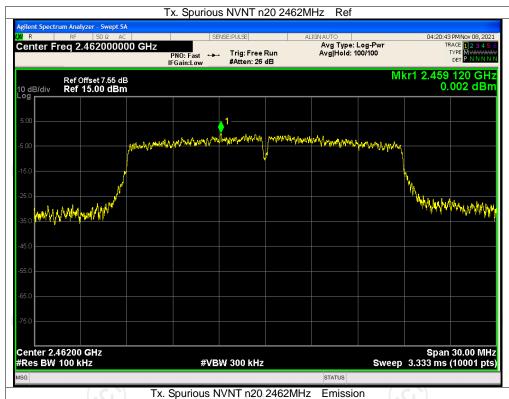


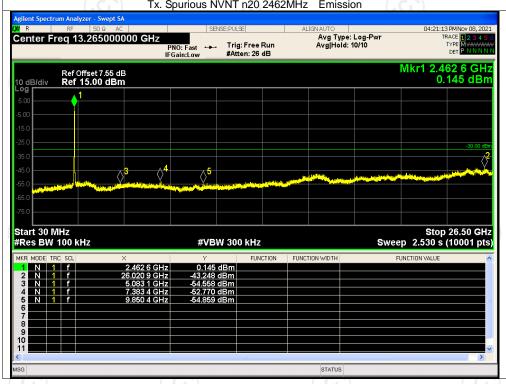




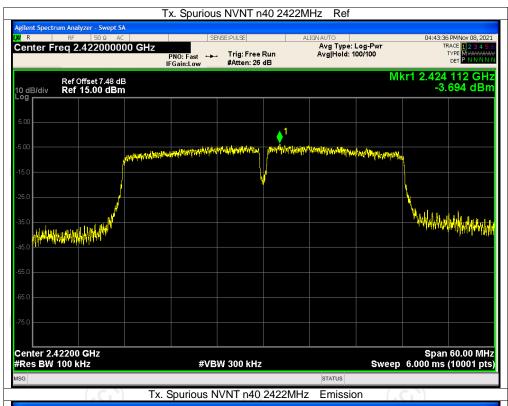


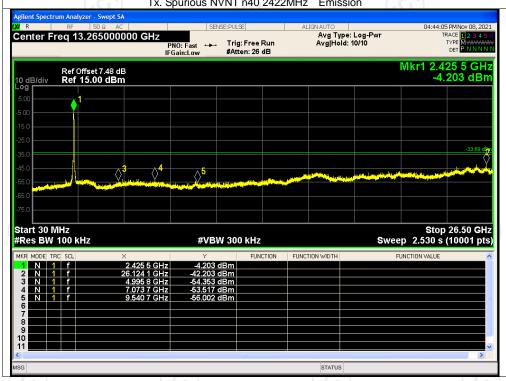




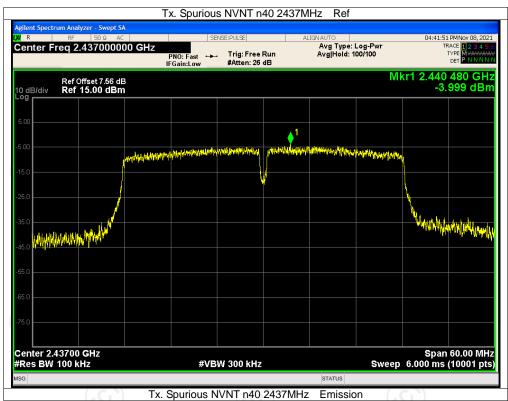


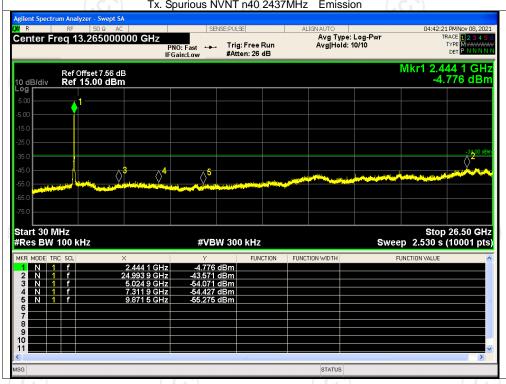




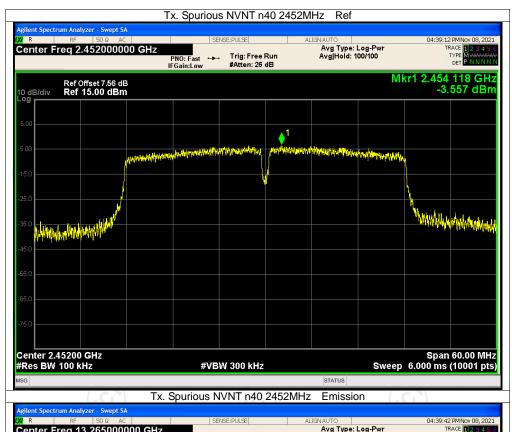


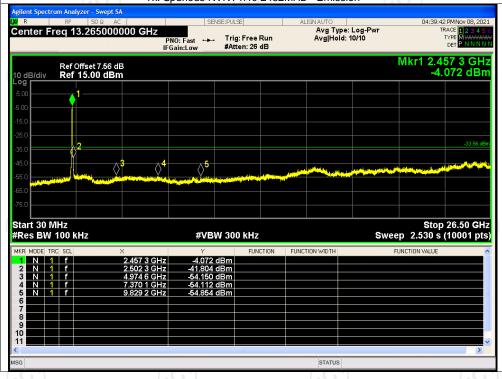














Appendix B: Photographs of Test Setup

Refer to the test report No. TCT211020E048

Appendix C: Photographs of EUT

Refer to the test report No. TCT211020E048











