

	TEST REPOR	T			
FCC ID::	2BN8F-CAMQ20				
Test Report No::	TCT250416E016				
Date of issue::	Apr. 24, 2025				
Testing laboratory:	SHENZHEN TONGCE TESTING LAB				
Testing location/ address:	2101 & 2201, Zhenchang Facto Fuhai Subdistrict, Bao'an Distric 518103, People's Republic of C	ct, Shenzhen, Guangdong,			
Applicant's name::	NUMLAKE TECH LIMITED				
Address::	UNIT 1505, 15/F WORKINGPO HAU FOOK STREET TSIM SHA	RT COMMERCIAL BUILDING 3 A TSUI HONG KONG, China			
Manufacturer's name:	NUMLAKE TECH LIMITED				
Address:	UNIT 1505, 15/F WORKINGPO HAU FOOK STREET TSIM SHA	RT COMMERCIAL BUILDING 3 A TSUI HONG KONG, China			
Standard(s)::	FCC CFR Title 47 Part 15 Subpart C Section 15.247 FCC KDB 558074 D01 15.247 Meas Guidance v05r02 ANSI C63.10:2020				
Product Name::	Wi-Fi Battery Camera with Sola	r Panel			
Trade Mark:	N/A				
Model/Type reference:	Q20, Q10, Q30, Q10 plus, Q20	plus, Q30 plus			
Rating(s)::	Rechargeable Li-ion Battery DC	3.7V			
Date of receipt of test item:	Apr. 16, 2025				
Date (s) of performance of test:	Apr. 16, 2025 ~ Apr. 24, 2025				
Tested by (+signature):	Ronaldo LUO Parald Suscer				
Check by (+signature):	Beryl ZHAO Boy 2 TCT				
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	6
3.1. Test environment and mode	
3.2. Description of Support Units	7
4. Facilities and Accreditations	
4.1. Facilities	8
4.2. Location	8
4.3. Measurement Uncertainty	
5. Test Results and Measurement Data	<u>(0)</u>
5.1. Antenna requirement	
5.2. Conducted Emission	
5.3. Maximum Conducted (Average) Output Power	14
5.4. Emission Bandwidth	
5.5. Power Spectral Density	
5.6. Conducted Band Edge and Spurious Emission Me	asurement17
5.7. Radiated Spurious Emission Measurement	19
Appendix A: Test Result of Conducted Test	
Appendix B: Photographs of Test Setup	
Appendix C: Photographs of EUT	



1. General Product Information

1.1. EUT description

Product Name:	Wi-Fi Battery Camera with Solar Panel		
Model/Type reference:	Q20		
Sample Number:	TCT250416E015-0101		
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:	.: 2.99dBi		
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 (Q20 (A)	
Other models	Q10, Q30, Q10 plus, Q20 plus, Q30 plus	

Note: Q20 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 Q20 can represent the remaining models.



Page 3 of 83



1.3. Operation Frequency

For 802.11b/g/n(HT20)

	<u> </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)

Channal	Гискиона	Channal	Fraguesa	Channal	Fraguera.	Channal	Fraguera.
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
<u></u>		4	2427MHz	_ 7	2442MHz		
(C))	(5	2432MHz	8	2447MHz	<u>(`)</u>	(¿Ć
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)

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 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:	23.2 °C	24.5 °C			
Humidity:	47 % RH	48 % RH			
Atmospheric Pressure:	1010 mbar	1010 mbar			
Test Software:					
Software Information:	RDTool V1.0.21				
Power Level:	-100				
Test Mode:					
Engineering mode: Keep the EUT in continuous transmitting by select channel and modulations with Fully-charged battery					

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

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(HT20)	6.5Mbps
802.11n(HT40)	13.5Mbps



KQ.

Report No.: TCT250416E016

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	ETA0U82CBC	RT10206CS/AE	1	SAMSUNG

Note:

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



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

SHENZHEN TONGCE TESTING LAB

CAB identifier: CN0031

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

4.2. Location

SHENZHEN TONGCE TESTING LAB

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

TEL: +86-755-27673339

4.3. Measurement Uncertainty

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

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



5. Test Results and Measurement Data

5.1. Antenna requirement

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

15.203 requirement:

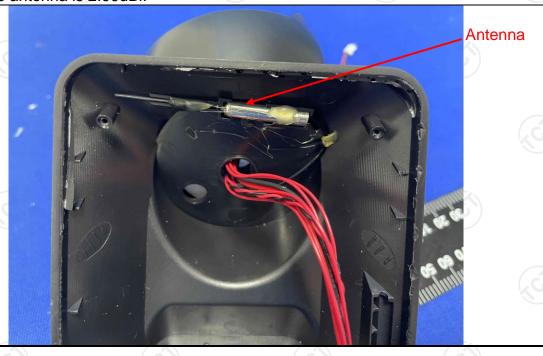
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit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

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

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

E.U.T Antenna:

The WIFI antenna is internal antenna which permanently attached, and the best case gain of the antenna is 2.99dBi.



Page 9 of 83



TESTING CENTRE TECHNOLOGY Report No.: TCT250416E016

5.2. Conducted Emission

5.2.1. Test Specification

Test Requirement:	FCC Part15 C Section	15 207	(,c)			
Test Method:		ANSI C63.10:2020				
		ANSI C63. 10.2020				
Frequency Range:	150 kHz to 30 MHz	150 kHz to 30 MHz				
Receiver setup:	RBW=9 kHz, VBW=30	kHz, Sweep time	=auto			
	Frequency range	Limit (d	Limit (dBuV)			
	(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 LISN: Line Impedence Stabilization No. Test table height=0.8m	E.U.T AC power Test table/Insulation plane Remark E.U.T. Equipment Under Test LISN: Line Impedence Stabilization Network				
Test Mode:	Charging + Transmitting Mode					
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 C63.10:2020 on conducted measurement. 					
Test Result:	PASS		100			



5.2.2. Test Instruments

	Conducted Emission Shielding Room Test Site (843)					
Equipment	Manufacturer	Model	Serial Number	Date of Cal.	Due Date	
EMI Test Receiver	R&S	ESCI3	100898	Jun. 27, 2024	Jun. 26, 2025	
LISN	Schwarzbeck	NSLK 8126	8126453	Jan. 21, 2025	Jan. 20, 2026	
Attenuator	N/A	10dB	164080	Jun. 27, 2024	Jun. 26, 2025	
Line-5	TCT	CE-05	1	Jun. 27, 2024	Jun. 26, 2025	
EMI Test Software	EZ_EMC	EMEC-3A1	1.1.4.2		1 (0)	

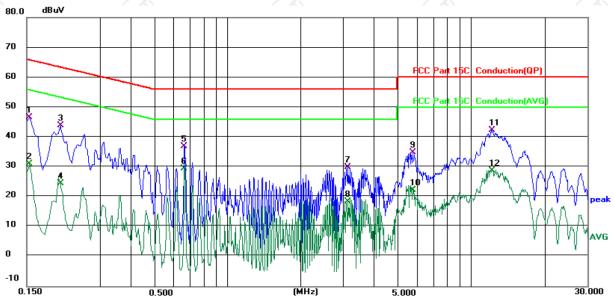




5.2.3. Test data

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: 23.2 (°C)

Humidity: 47 %

Limit: FCC Part 15C Conduction(QP)

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

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBu∨	dB	dBu∨	dBu∀	dB	Detector	Comment
1		0.1539	36.66	9.96	46.62	65.79	-19.17	QP	
2		0.1539	21.04	9.96	31.00	55.79	-24.79	AVG	
3		0.2059	33.97	9.92	43.89	63.37	-19.48	QP	
4		0.2059	14.63	9.92	24.55	53.37	-28.82	AVG	
5		0.6660	26.94	9.90	36.84	56.00	-19.16	QP	
6	*	0.6660	19.53	9.90	29.43	46.00	-16.57	AVG	
7		3.1339	19.93	10.08	30.01	56.00	-25.99	QP	
8		3.1339	8.42	10.08	18.50	46.00	-27.50	AVG	
9		5.7500	24.72	10.17	34.89	60.00	-25.11	QP	
10		5.7500	12.17	10.17	22.34	50.00	-27.66	AVG	
11		12.2140	32.00	10.34	42.34	60.00	-17.66	QP	
12		12.2140	18.50	10.34	28.84	50.00	-21.16	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

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

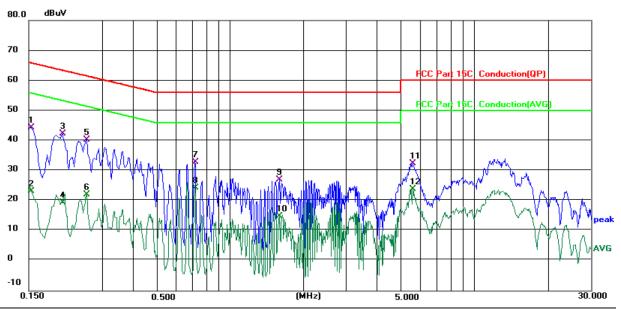
Q.P. =Quasi-Peak

AVG =average

 $^{^{\}star}$ 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: 23.2 (°C)

Humidity: 47 %

Limit: FCC Part 15C Conduction(QP)

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

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBu∨	dB	dBu∨	dBu∀	dB	Detector	Comment
1		0.1539	34.40	9.94	44.34	65.79	-21.45	QP	
2		0.1539	13.21	9.94	23.15	55.79	-32.64	AVG	
3	*	0.2059	32.45	9.93	42.38	63.37	-20.99	QP	
4		0.2059	9.52	9.93	19.45	53.37	-33.92	AVG	
5		0.2580	30.28	9.93	40.21	61.50	-21.29	QP	
6		0.2580	12.16	9.93	22.09	51.50	-29.41	AVG	
7		0.7179	22.94	9.94	32.88	56.00	-23.12	QP	
8		0.7179	14.30	9.94	24.24	46.00	-21.76	AVG	
9		1.5940	16.91	10.00	26.91	56.00	-29.09	QP	
10		1.5940	4.94	10.00	14.94	46.00	-31.06	AVG	
11		5.6059	22.14	10.18	32.32	60.00	-27.68	QP	
12		5.6059	13.58	10.18	23.76	50.00	-26.24	AVG	

Note 1:

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.

Note 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 (Lowest channel and 802.11b) was submitted only.



5.3. Maximum Conducted (Average) Output Power

5.3.1. Test Specification

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

5.3.2. Test Instruments

Equipment	Manufacturer	Model No.	Serial Number	Date of Cal.	Due Date
Spectrum Analyzer	Agilent	N9020A	MY49100619	Jun. 27, 2024	Jun. 26, 2025
Combiner Box	Ascentest	AT890-RFB		1	1



Page 14 of 83



CENTRE TECHNOLOGY Report No.: TCT250416E016

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

Equipment	Manufacturer	Model No.	Serial Number	Date of Cal.	Due Date
Spectrum Analyzer	Agilent	N9020A	MY49100619	Jun. 27, 2024	Jun. 26, 2025
Combiner Box	Ascentest	AT890-RFB		/	



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 D01 v05r02
Limit:	The peak power spectral density shall not be greater than 8dBm in any 3kHz band at any time interval of continuous transmission.
Test Setup:	Spectrum Analyzer EUT
Test Mode:	Transmitting mode with modulation
Test Procedure:	 The RF output of EUT was connected to the spectrum analyzer by RF cable. The path loss was compensated to the results for each measurement. Set to the maximum power setting and enable the EUT transmit continuously. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW): 3 kHz ≤ RBW ≤ 100 kHz. Video bandwidth VBW ≥ 3 x RBW. Set the span 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

Equipment	Manufacturer	Model No.	Serial Number	Date of Cal.	Due Date
Spectrum Analyzer	Agilent	N9020A	MY49100619	Jun. 27, 2024	Jun. 26, 2025
Combiner Box	Ascentest	AT890-RFB	1	1	1

Page 16 of 83





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 D01 v05r02					
Limit:	In any 100 kHz bandwidth outside of the authorized frequency band, the emissions which fall in the non-restricted bands shall be attenuated at least 20 dB / 30dB relative to the maximum PSD level in 100 kHz by RF conducted measurement and radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a).					
Test Setup:	Spectrum Analyzer EUT					
Test Mode:	Transmitting mode with modulation					
Test Procedure:	 Transmitting mode with modulation The RF output of EUT was connected to the spectrum analyzer by RF cable. The path loss was compensated to the results for each measurement. Set to the maximum power setting and enable the EUT transmit continuously. Set RBW = 100 kHz, VBW=300 kHz, Peak Detector. Unwanted Emissions measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz when maximum peak conducted output power procedure is used. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB per 15.247(d). Measure and record the results in the test report. The RF fundamental frequency should be excluded 					
Test Result:	PASS					

Page 17 of 83



5.6.2. Test Instruments

Equipment	Manufacturer	Model No.	Serial Number	Date of Cal.	Due Date
Spectrum Analyzer	Agilent	N9020A	MY49100619	Jun. 27, 2024	Jun. 26, 2025
Combiner Box	Ascentest	AT890-RFB	/	/	/



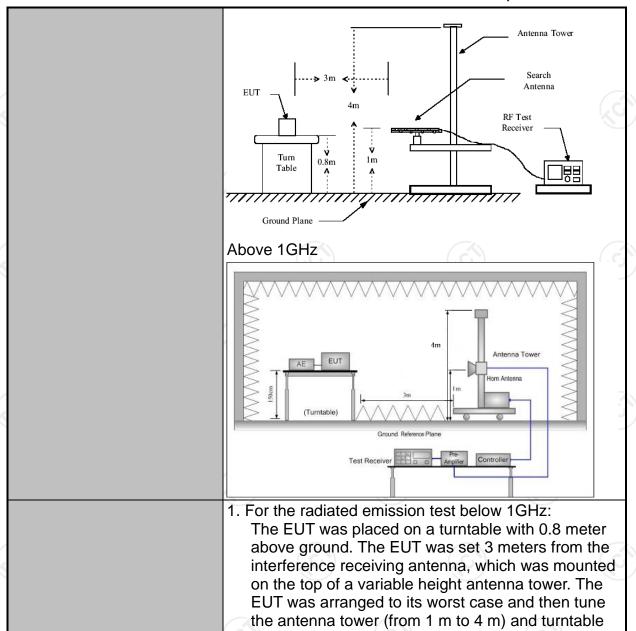


5.7. Radiated Spurious Emission Measurement

5.7.1. Test Specification

Test Requirement:	FCC Part15	C Section	15.209	(0)		ζć					
Test Method:	ANSI C63.10	ANSI C63.10:2020 9 kHz to 25 GHz									
Frequency Range:	9 kHz to 25 (GHz				.					
Measurement Distance:	3 m	(4)	5)		KC						
Antenna Polarization:	Horizontal &	Vertical									
Operation mode:	Transmitting	mode with	n modulat	ion							
Receiver Setup:	Frequency 9kHz- 150kHz 150kHz- 30MHz 30MHz-1GHz Above 1GHz	Detector Quasi-peak Quasi-peak Peak Peak		VBW 1kHz 30kHz 300KHz 3MHz 10Hz	Qua: Qua: P	Remark si-peak Value si-peak Value 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	cy	Field Stra (microvolts 2400/F(l 24000/F(30 100 150 200 500 Strength volts/meter)	ength /meter) KHz) KHz)	Med Dista	easurement ance (meters) 300 30 30 30 30 3 3 3 3 3 A Detector Average Peak					
Test setup:	For radiated	emissions stance = 3m Turn table	lm	Pre -	Compa	Inter					





Test Procedure:

(from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high PASS filter are used for the test in order to get better signal level. For the radiated emission test above 1GHz: Place the measurement antenna on a turntable with 1.5 meter above ground, which is away from each area of the EUT determined to be a source of emissions at the specified measurement distance. while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which



	Report No.: 1C1250416E01
	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 power control level for the tested mode of operation.
Test results:	PASS





5.7.2. Test Instruments

Radiated Emission Test Site (966)											
Equipment	Manufacturer	Model	Serial Number	Date of Cal.	Due Date						
EMI Test Receiver	R&S	ESCI7	100529	Jan. 21, 2025	Jan. 20, 2026						
Spectrum Analyzer	R&S	FSQ40	200061	Jun. 27, 2024	Jun. 26, 2025						
Pre-amplifier	SKET	LNPA_0118G-45	SK2021012102	Jan. 21, 2025	Jan. 20, 2026						
Pre-amplifier	SKET	LNPA_1840G-50	SK202109203500	Jan. 21, 2025	Jan. 20, 2026						
Pre-amplifier	HP	8447D	2727A05017	Jun. 27, 2024	Jun. 26, 2025						
Loop antenna	Schwarzbeck	FMZB1519B	00191	Jun. 27, 2024	Jun. 26, 2025						
Broadband Antenna	Schwarzbeck	VULB9163	340	Jun. 29, 2024	Jun. 28, 2025						
Horn Antenna	Schwarzbeck	BBHA 9120D	631	Jun. 29, 2024	Jun. 28, 2025						
Horn Antenna	Schwarzbeck	BBHA 9170	00956	Jan. 23, 2025	Jan. 22, 2026						
Coaxial cable	SKET	RE-03-D	1	Jun. 27, 2024	Jun. 26, 2025						
Coaxial cable	SKET	RE-03-M	1	Jun. 27, 2024	Jun. 26, 2025						
Coaxial cable	SKET	RE-03-L		Jun. 27, 2024	Jun. 26, 2025						
Coaxial cable	SKET	RE-04-D	/	Jun. 27, 2024	Jun. 26, 2025						
Coaxial cable	SKET	RE-04-M	/	Jun. 27, 2024	Jun. 26, 2025						
Coaxial cable	SKET	RE-04-L	/	Jun. 27, 2024	Jun. 26, 2025						
Antenna Mast	Keleto	RE-AM	/	/	1						
EMI Test Software	EZ_EMC	FA-03A2 RE+	1.1.4.2	1) /						



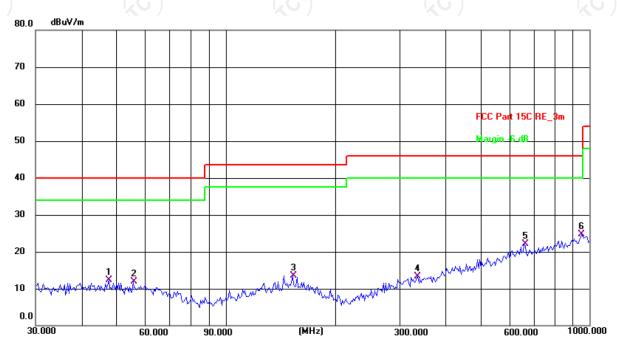


5.7.3. Test Data

Please refer to following diagram for individual

Below 1GHz

Horizontal:



Site: 3m Anechoic Chamber1 Polarization: Horizontal Temperature: 24.5(C) Humidity: 48 %

Limit: FCC Part 15C RE_3m

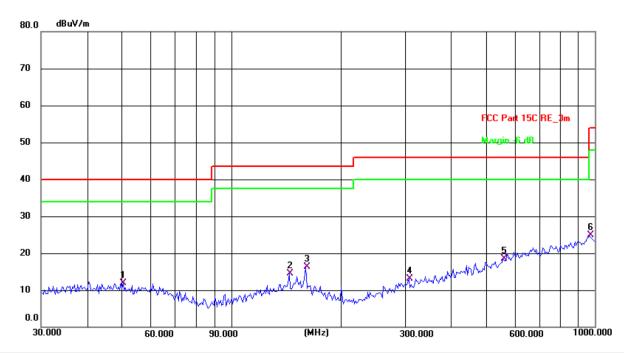
Power: DC 3.7 V

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	47.6584	24.56	-12.19	12.37	40.00	-27.63	QP	Р	
2	55.6093	24.55	-12.63	11.92	40.00	-28.08	QP	Р	
3	152.6641	24.71	-11.14	13.57	43.50	-29.93	QP	Р	
4	337.2155	23.63	-10.31	13.32	46.00	-32.68	QP	Р	
5	661.1504	26.03	-3.95	22.08	46.00	-23.92	QP	Р	
6 *	952.0937	24.42	0.28	24.70	46.00	-21.30	QP	Р	





Vertical:



Humidity: 48 % Temperature: 24.5(C) Site: 3m Anechoic Chamber1 Polarization: Vertical

Ļimit: I	FCC Part 15C F	RE_3m				Power:	DC 3.7 \	/	1
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	50.4089	24.22	-12.31	11.91	40.00	-28.09	QP	Р	
2	144.3348	26.40	-11.92	14.48	43.50	-29.02	QP	Р	
3 *	160.3456	27.70	-11.37	16.33	43.50	-27.17	QP	Р	
4	307.8313	24.02	-10.84	13.18	46.00	-32.82	QP	Р	
5	558.7302	24.90	-6.49	18.41	46.00	-27.59	QP	Р	
6	965.5421	24.94	-0.07	24.87	54.00	-29.13	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 (Lowest channel and 802.11b) 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

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

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

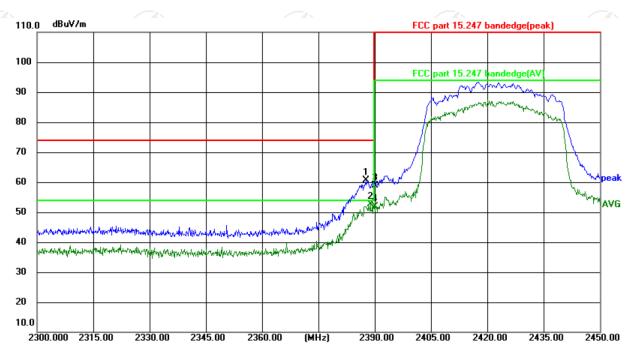
Page 24 of 83



Test Result of Radiated Spurious at Band edges

Lowest channel 2422:

Horizontal:



Site: 3m Anechoic Chamber Polarization: Horizontal Temperature: 22.3(°C) Humidity: 49 %

Limit: FCC part 15.247 bandedge(peak)

Power: DC 3.7V

		301100090							
Frequency	Ant Pol	Peak	AV	Correction	Emissio	n Level	Peak limit	Δ\/ limit	Margin
(MHz)	H/V	reading (dBµV)	reading (dBuV)	Factor (dB/m)	Peak (dBµV/m)	AV	(dBµV/m)		(dB)
2387.840	Н	76.80		-16.24	60.56		74	54	-13.44
2388.875	Н	(68.77	-16.25		52.52	74	54	-1.48
2390.000	Н	75.23		-16.26	58.97		74	54	-15.03
2390.000	Н		68.08	-16.26		51.82	74	54	-2.18

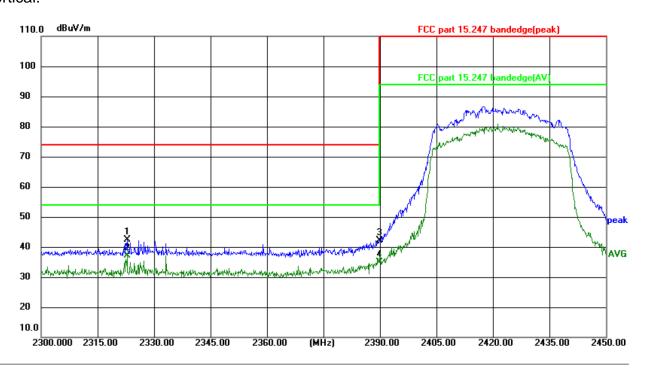
Note:

1.Emission Level=Peak Reading + Correction Factor; Correction Factor= Antenna Factor + Cable loss – Pre-amplifier 2.Margin (dB) = Emission Level (Peak/AVG) (dBμV/m)- limit (Peak/AVG) (dBμV/m))





Vertical:



Site: 3m Anechoic Chamber Polarization: Vertical Temperature: 22.3(°C) Humidity: 49 %

Limit: FCC part 15.247 bandedge(peak)

Power: DC 3.7V

Frequency	Ant Pol	Peak	AV	Correction	Emissic	n Level	Peak limit	Δ\/ limit	Margin
(MHz)	H/V	reading (dBµV)	reading (dBuV)	Factor (dB/m)	Peak (dBµV/m)	AV		(dBµV/m)	
2322.845	V	58.32		-15.83	42.49	<i>-</i>	74	54	-31.51
2322.845	V		53.08	-15.83		37.25	74	54	-16.75
2390.000	V	58.46		-16.26	42.20		74	54	-31.80
2390.000	V		51.10	-16.26		34.84	74	54	-19.16

Note:

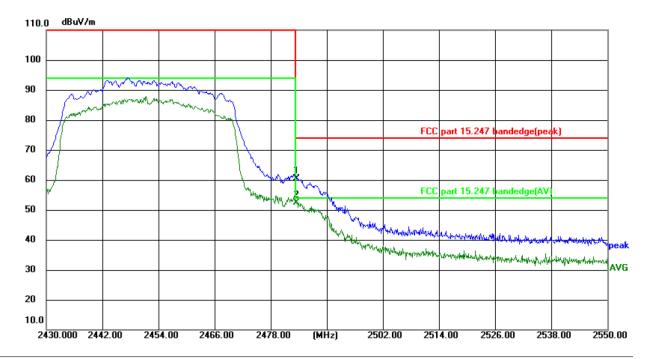
- 1.Emission Level=Peak Reading + Correction Factor; Correction Factor= Antenna Factor + Cable loss Pre-amplifier 2.Margin (dB) = Emission Level (Peak/AVG) (dBμV/m)- limit (Peak/AVG) (dBμV/m))
- 3. Measurements were conducted in all two channels (high, low) and all modulation (802.11b, 802.11g, 802.11n(HT20), 802.11n(HT40)), and the worst case Mode 802.11n(HT40) was submitted only.





Highest channel 2452:

Horizontal:



Site: 3m Anechoic Chamber Polarization: Horizontal Temperature: 22.3(°C) Humidity: 49 %

Limit: FCC part 15.247 bandedge(peak)

Power:DC 3.7V

on Emission Level Peak limit A\

Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBuV)	AV reading (dBuV)	Correction Factor (dB/m)	Peak	AV	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
` ,		(ubµ v)	(ubuv)	(ub/III)	(dBµV/m)	(αΒμν/ιτι)	` '	` '	` '
2483.500	Н	76.24		-15.91	60.33		74	54	-13.67
2483.500	Н		68.39	-15.91		52.48	74	54	-1.52

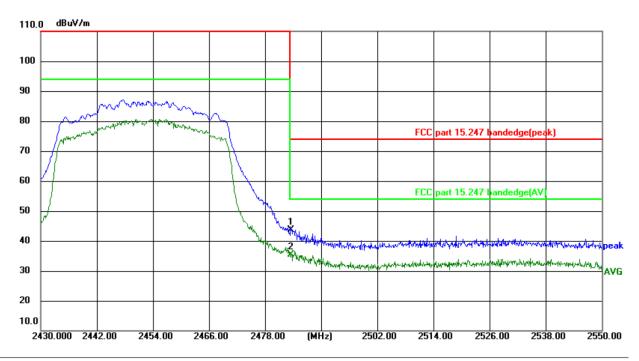
Note:

1. Emission Level=Peak Reading + Correction Factor; Correction Factor= Antenna Factor + Cable loss - Pre-amplifier 2. Margin (dB) = Emission Level (Peak/AVG) (dB μ V/m)- limit (Peak/AVG) (dB μ V/m))





Vertical:



Site: 3m Anechoic Chamber Polarization: Vertical Temperature: 22.3(°C) Humidity: 49 %

Limit: FCC part 15.247 bandedge(peak)

•		0 (1	,						
Frequency	Ant Pol	Peak	AV	Correction	Emissic	n Level	Peak limit	Λ\/ limit	Margin
(MHz)	H/V	reading	reading	Factor	Peak	AV	(dBµV/m)		(dB)
(1411 12)	1 1/ V	(dBµV)	(dBuV)	(dB/m)	(dBµV/m)	(dBµV/m)	(αυμ ۷/111)	(αυμ ν/ιιι)	(GD)
2483.500	V	59.54		-15.91	43.63		74	54	-30.37
2483 500	V		51 22	-15 91		35 31	74	54	-18 69

Power: DC 3.7V

Note:

- 1. Emission Level=Peak Reading + Correction Factor; Correction Factor= Antenna Factor + Cable loss Pre-amplifier 2. Margin (dB) = Emission Level (Peak/AVG) (dB μ V/m)- limit (Peak/AVG) (dB μ V/m))
- 3. Measurements were conducted in all two channels (high, low) and 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

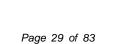
	Modulation Typo. 662.116												
	Low channel: 2412 MHz												
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBuV)	Correction Factor (dB/m)	Emissic Peak (dBµV/m)	AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)				
4824	Τ	54.37		-9.48	44.89	(74	54	-9.11				
7236	Н	45.44		-1.34	44.10		74	54	-9.90				
	Н												
4824	V	54.06		-9.48	44.58	~~	74	54	-9.42				
7236	V	44.62	(_C	-1.34	43.28	O`)	74	54	-10.72				
	V)							

	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	55.08		-9.37	45.71		74	54	-8.29			
7311	Н	46.35		-1.17	45.18		74	54	-8.82			
	H				(4				
	ĬΟ)		ΙŽO.		K	0)		(VO)				
4874	V	53.86		-9.37	44.49		74	54	-9.51			
7311	V	45.39		-1.17	44.22		74	54	-9.78			
	V	-							<u>—</u> .			

					4 1				
			/ 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)	AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
4924	H	54.12	(<	-9.26	44.86	c:\\	74	54	-9.14
7386	H	44.97		-1.01	43.96)	74	54	-10.04
	Н					1			
4924	V	54.47		-9.26	45.21		74	54	-8.79
7386	V	45.05		-1.01	44.04		74	54	-9.96
\/	V				<i>/</i>				

Note:

- 1. Emission Level=Peak Reading + Correction Factor; Correction Factor= Antenna Factor + Cable loss Pre-amplifier
- 2. Margin (dB) = Emission Level (Peak) (dB μ V/m)-Average limit (dB μ V/m)
- 3. The emission levels of other frequencies are very lower than the limit and not show in test report.
- 4. Measurements were conducted from 1 GHz to the 10th harmonic of highest fundamental frequency. 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.





Modulation Type, 002.119	02.11g	oe:	Ty	/lodulation	
--------------------------	--------	-----	----	-------------	--

			L	ow channe	l: 2412 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)
4824	Н	54.62		-9.48	45.14		74	54	-8.86
7236	Н	45.40		-1.34	44.06		74	54	-9.94
\/	Н				/		<u></u>		
1001	.,	- 4 - 2	T T	0.40	4= 40				
4824	V	54.58		-9.48	45.10		74	54	-8.90
7236	V	45.91		-1.34	44.57		74	54	-9.43
	V		/ _C	·)	(O ')		(, G)	

	Middle channel: 2437MHz										
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)	Emission Peak (dBµV/m)	AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)		
4874	Н	54.24		-9.37	44.87		74	54	-9.13		
7311	Н	45.60		-1.17	44.43		74	54	-9.57		
	Н										
4874	V	52.66	1/0	-9.37	43.29)	74	54	-10.71		
7311	٧	44.08		-1.17	42.91	-	74	54	-11.09		
	V										

					7.				
) H	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	53.54		-9.26	44.28		74	54	-9.72
7386	H	44.23	(-1.01	43.22		74	54	-10.78
	H			/)		\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	
4924	V	54.73		-9.26	45.47		74	54	-8.53
7386	V	45.18		-1.01	44.17		74	54	-9.83
$(-\epsilon)$	V	(- 6)		(, (·		\C\ 2\		(.)

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.



Modulation Type: 802.11n(HT2

					I: 2412 MH				
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBuV)	Correction Factor (dB/m)	Emissic Peak (dBµV/m)	n Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
4824	Н	54.32		-9.48	44.84		74	54	-9.16
7236	Н	44.58		-1.34	43.24		74	54	-10.76
\(\frac{1}{2}\)	Н				<i></i>		<u></u>		
4824	V	53.87		-9.48	44.39		74	54	-9.61
7236	V	44.32		-1.34	42.98		74	54	-11.02
	V		/ _C		(3	<u> </u>		(₂ C ₂ -1)	

	Middle channel: 2437MHz										
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)	Emission Peak (dBµV/m)	AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)		
4874	Н	53.99		-9.37	44.62		74	54	-9.38		
7311	Н	44.48		-1.17	43.31		74	54	-10.69		
	Н										
4874	V	53.52	1/0	-9.37	44.15	0)	74	54	-9.85		
7311	٧	43.97		-1.17	42.80		74	54	-11.20		
	V										

					2				
) Н	ligh channe	el: 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	53.72		-9.26	44.46		74	54	-9.54
7386	H	44.83	- (c)	-1.01	43.82		74	54	-10.18
	H			/)		``	
4924	V	53.37		-9.26	44.11		74	54	-9.89
7386	V	44.28		-1.01	43.27		74	54	-10.73
(, C-)	V	(-, C)		(, 0			· C -)		(. .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.



Page 31 of 83



Modulation	Type:	802.11n((HT40)
------------	-------	----------	--------

			L	ow channe	I: 2422 MH:	Z			
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBuV)	Correction Factor (dB/m)	Emissic Peak (dBµV/m)	n Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
4844	Н	54.43		-9.43	45.00		74	54	-9.00
7266	Н	44.60		-1.28	43.32		74	54	-10.68
·	Н				<i></i>				`
4844	V	54.61		-9.43	45.18		74	54	-8.82
7266	V	46.07		-1.28	44.79	~~	74	54	-9.21
	V		/ _C	·)		O')		(, G)	

			М	iddle chann	el: 2437MF	łz			
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)	Emission Peak (dBµV/m)	AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
4874	Н	54.25		-9.37	44.88		74	54	-9.12
7311	Н	44.33		-1.17	43.16		74	54	-10.84
	Н								
4874	V	54.44	1/0	-9.37	45.07	0)	74	54	-8.93
7311	V	45.94		-1.17	44.77	-	74	54	-9.23
	V								

					2				
	High channel: 2452 MHz								
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	H	53.96		-9.30	44.66		74	54	-9.34
7356	H	44.88	- (c)	-1.08	43.80		74	54	-10.20
	H			/				/	
4904	V	54.98		-9.30	45.68		74	54	-8.32
7356	V	45.17		-1.08	44.09		74	54	-9.91
(, C- ,)	V	(- 6)		(, (, C 2 }		(. C)

Note:

- 1. Emission Level=Peak Reading + Correction Factor; Correction Factor= Antenna Factor + Cable loss Pre-amplifier
- 2. $Margin (dB) = Emission Level (Peak) (dB\mu V/m)-Average limit (dB\mu V/m)$
- 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.



Page 32 of 83



Appendix A: Test Result of Conducted Test

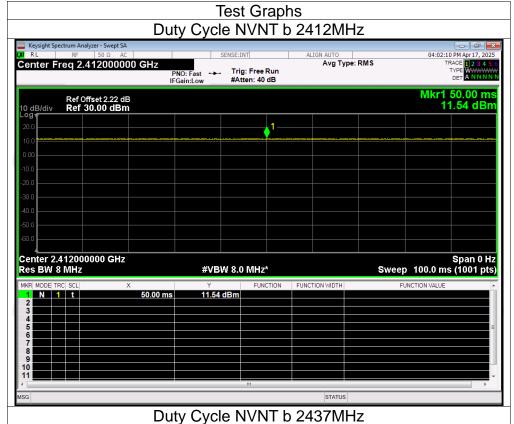
Duty Cycle

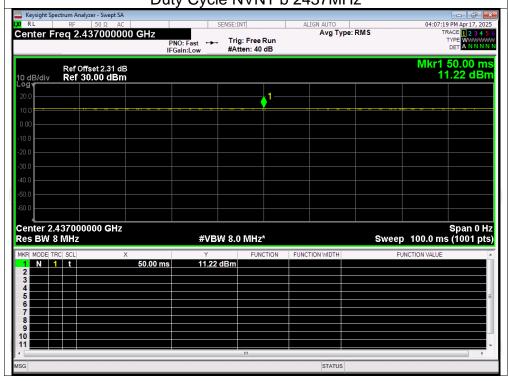
Condition	Mode	Frequency (MHz)	Duty Cycle (%)	Correction Factor (dB)
NVNT	b	2412	100	0
NVNT	b	2437	100	0
NVNT	b	2462	100	0
NVNT	g	2412	100	0(0)
NVNT	g	2437	100	0
NVNT	g	2462	100	0
NVNT	n20	2412	100	0
NVNT	n20	2437	100	(0) 0
NVNT	n20	2462	100	0
NVNT	n40	2422	100	0
NVNT	n40	2437	100	0
NVNT	n40	2452	100	0(0)





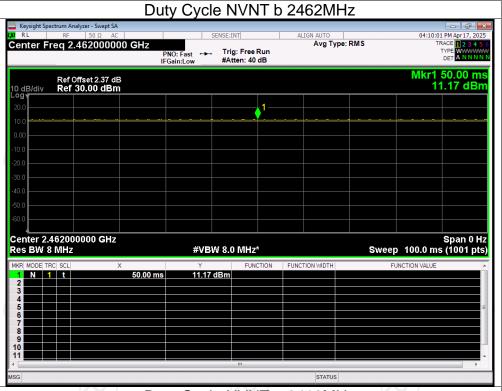


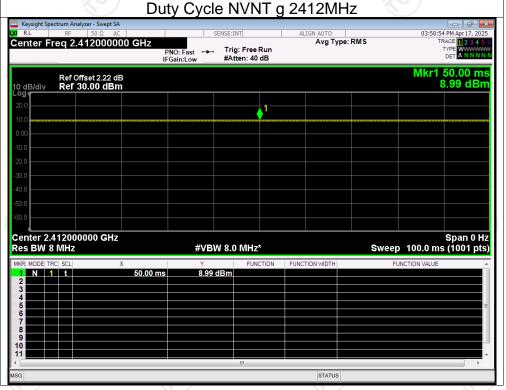






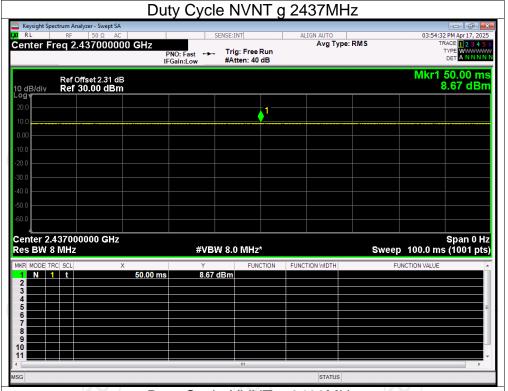


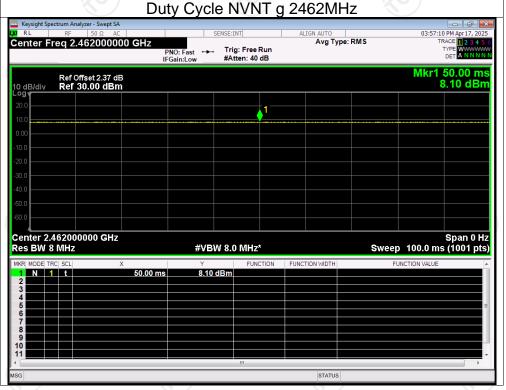






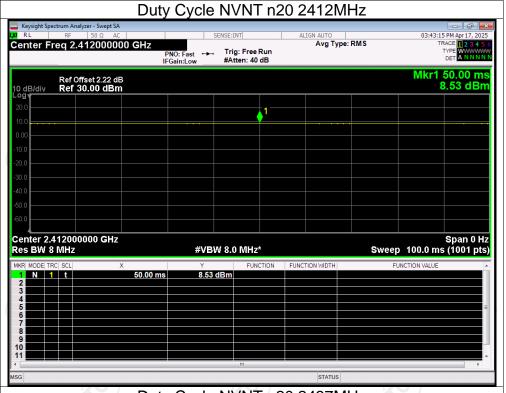


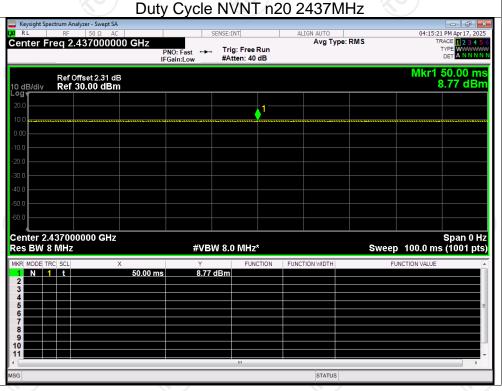






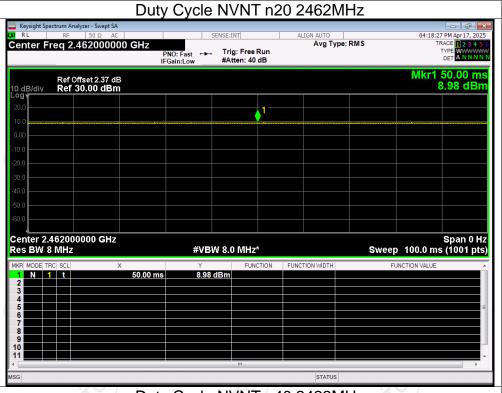


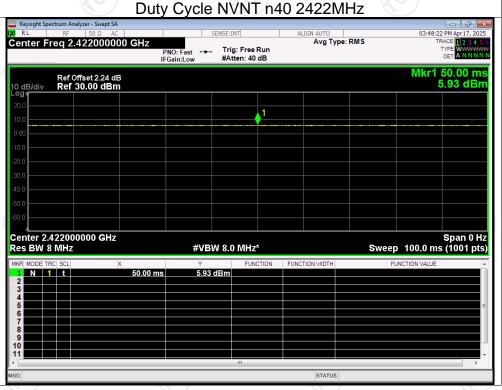






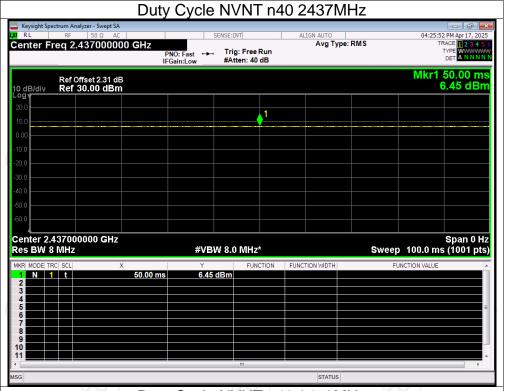


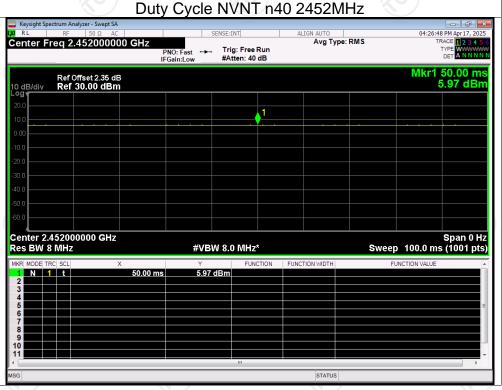








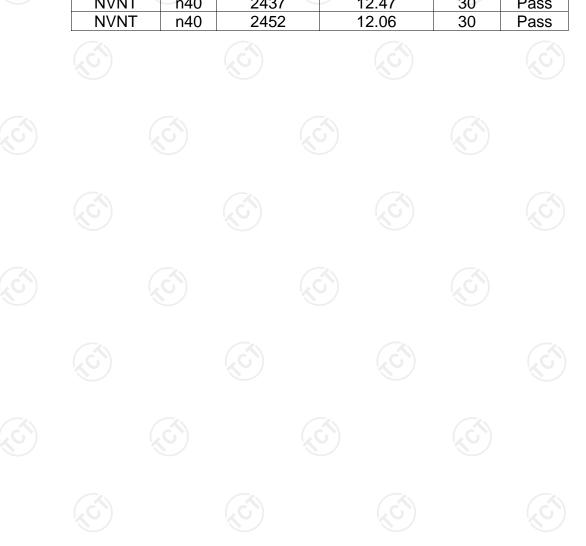




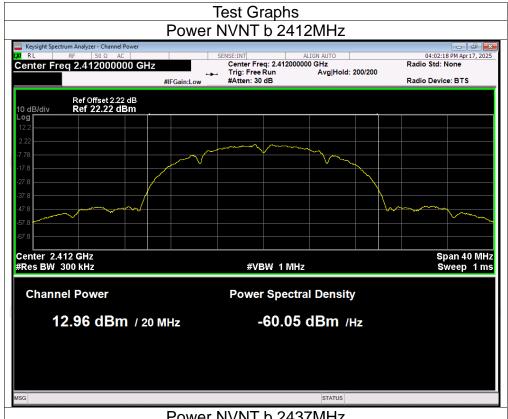


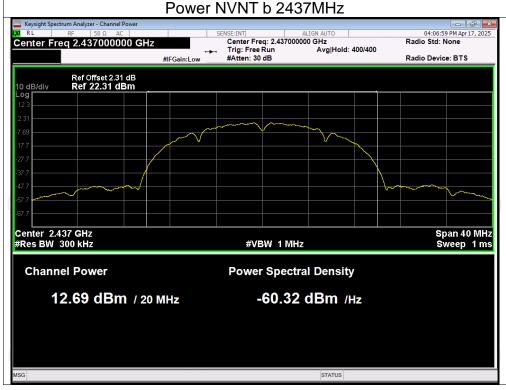
Maximum Conducted Output Power

Maximum Conducted Output I Ower						
Condition	Mode	Frequency (MHz)	Conducted Power (dBm)	Limit (dBm)	Verdict	
NVNT	- b	2412	12.96	30	Pass	
NVNT	b	2437	12.69	30	Pass	
NVNT	b	2462	12.54	30	Pass	
NVNT	g	2412	12.26	30	Pass	
NVNT	g	2437	11.63	30	Pass	
NVNT	g	2462	11.12	30	Pass	
NVNT	n20	2412	12.07	30	Pass	
NVNT	n20	2437	12.34	30	Pass	
NVNT	n20	2462	12.31	30	Pass	
NVNT	n40	2422	11.81	30	Pass	
NVNT	n40	2437	12.47	30	Pass	
NVNT	n40	2452	12.06	30	Pass	

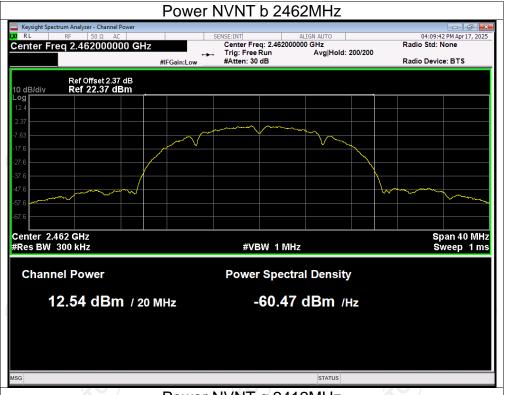


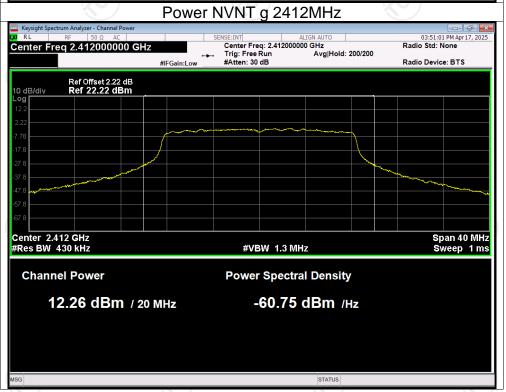




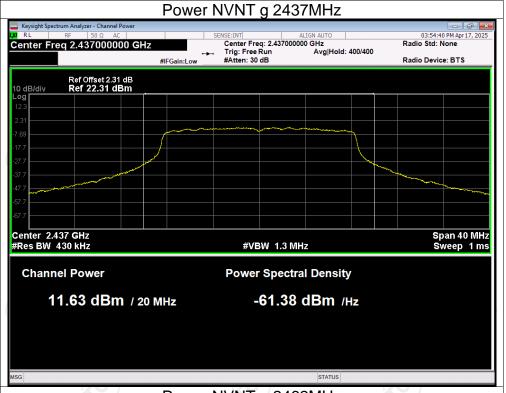


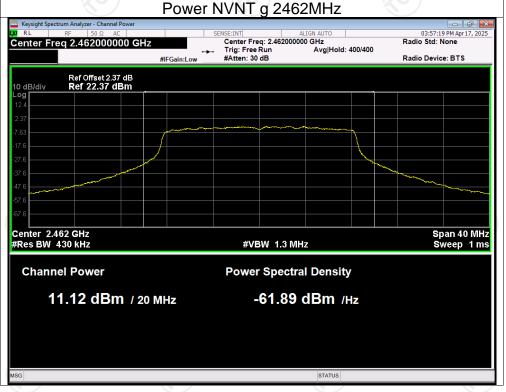




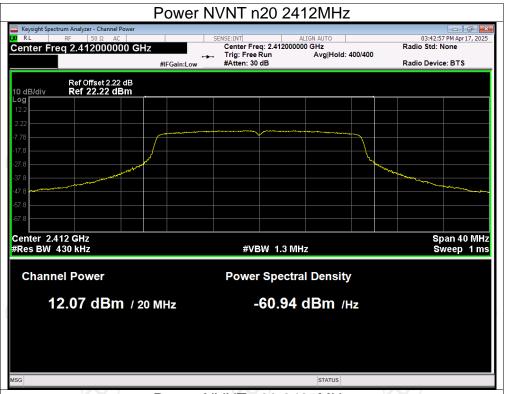


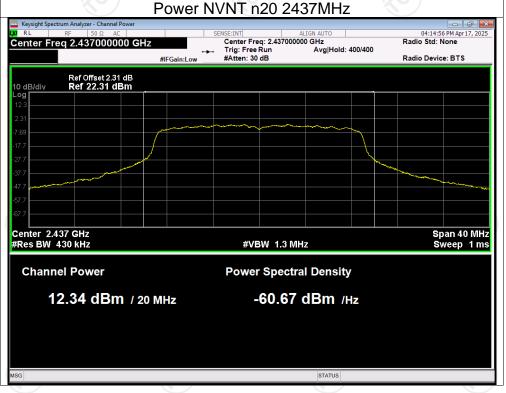




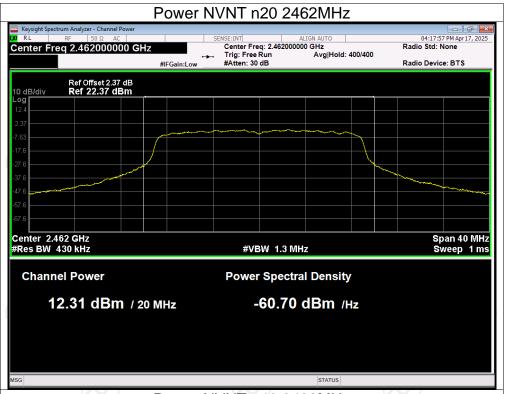


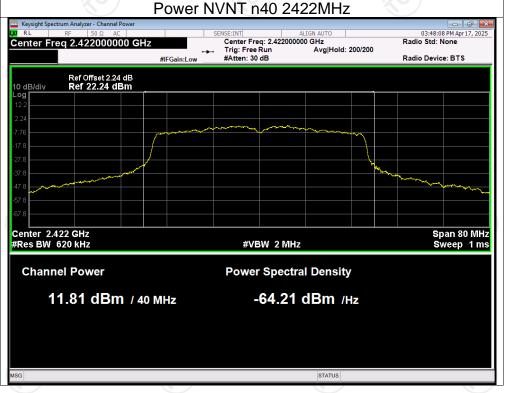




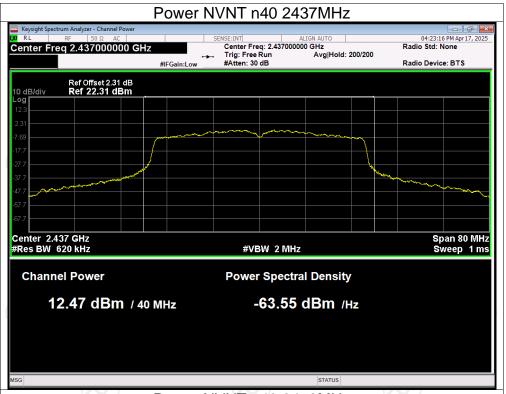


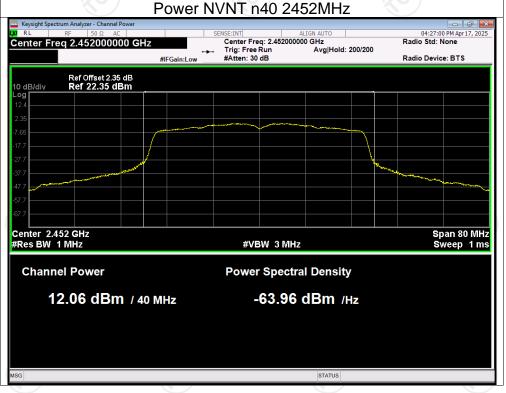














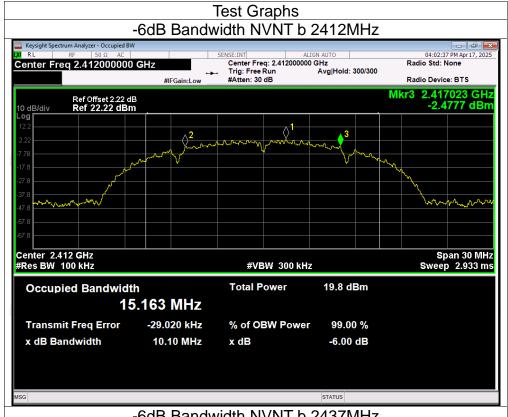
-6dB Bandwidth

Condition	Mode	Frequency (MHz)	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	b	2412	10.10	0.5	Pass
NVNT	b	2437	10.10	0.5	Pass
NVNT	b	2462	10.10	0.5	Pass
NVNT	g	2412	16.04	0.5	Pass
NVNT	g	2437	16.04	0.5	Pass
NVNT	g	2462	15.78	0.5	Pass
NVNT	n20	2412	16.31	0.5	Pass
NVNT	n20	2437	15.78	0.5	Pass
NVNT	n20	2462	15.79	0.5	Pass
NVNT	n40	2422	35.08	0.5	Pass
NVNT	n40	2437	33.80	0.5	Pass
NVNT	n40	2452	35.07	0.5	Pass



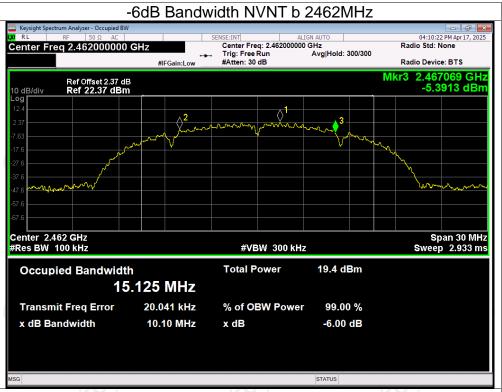








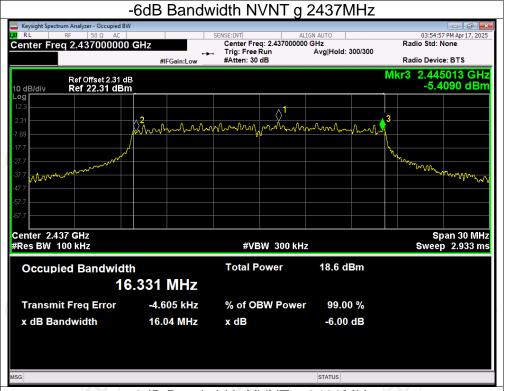


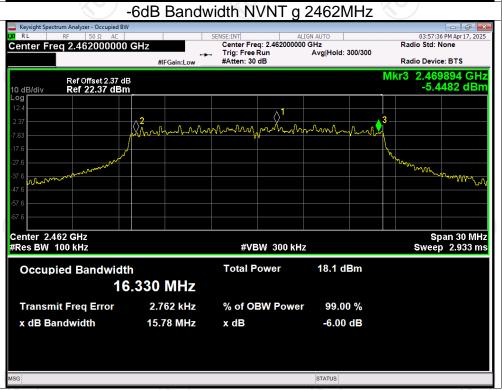






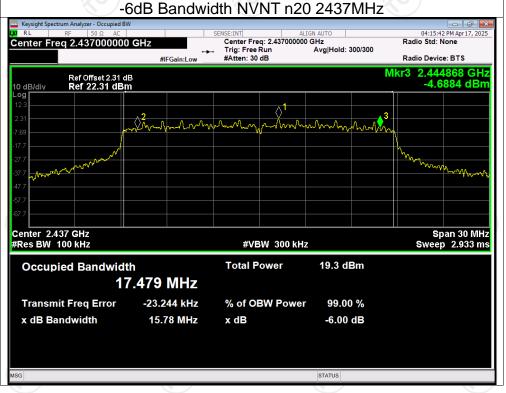




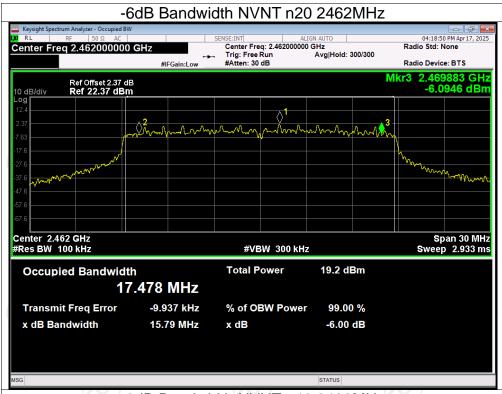


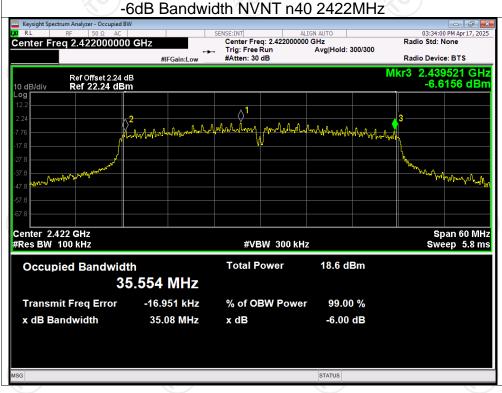




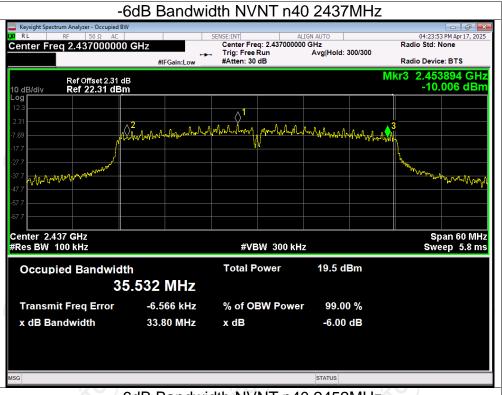
















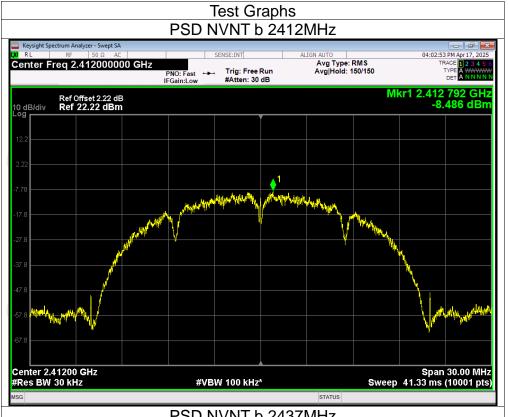
Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Conducted PSD (dBm/30kHz)	Conducted PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	b	2412	-8.49	-18.49	8	Pass
NVNT	b	2437	-8.76	-18.76	8	Pass
NVNT	b	2462	-9.17	-19.17	8	Pass
NVNT	g	2412	-8.82	-18.82	8	Pass
NVNT	g	2437	-8.91	-18.91	8	Pass
NVNT	g	2462	-9.02	-19.02	8	Pass
NVNT	n20	2412	-12.41	-22.41	8	Pass
NVNT	n20	2437	-9.07	-19.07	- 8	Pass
NVNT	n20	2462	-9.43	-19.43	8	Pass
NVNT	n40	2422	-10.95	-20.95	8	Pass
NVNT	n40	2437	-9.32	-19.32	8	Pass
NVNT	n40	2452	-9.56	-19.56	8	Pass

Note: Result[dBm/3kHz] = Result[dBm/30kHz] +10log(3kHz/30kHz)

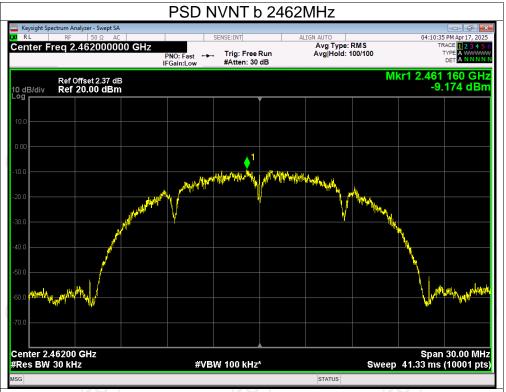


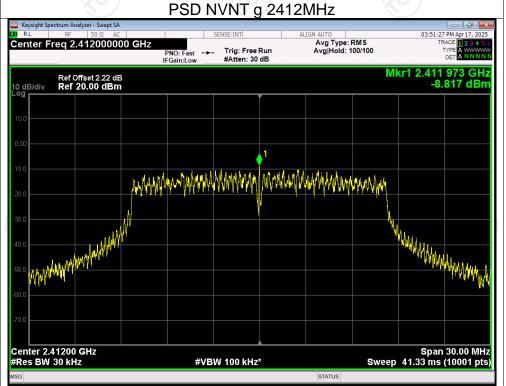




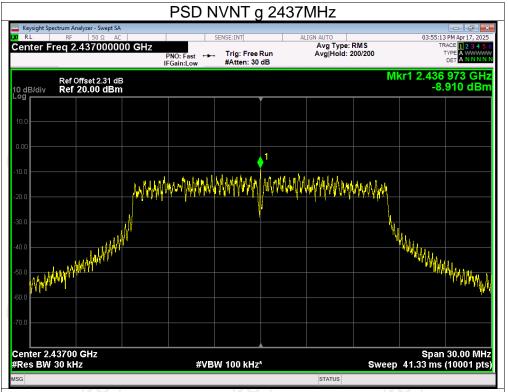
PSD NVNT b 2437MHz | September | Septembe

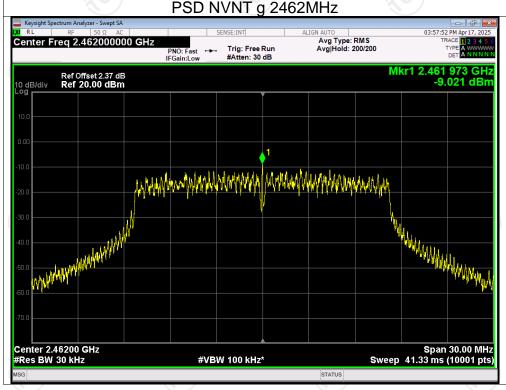




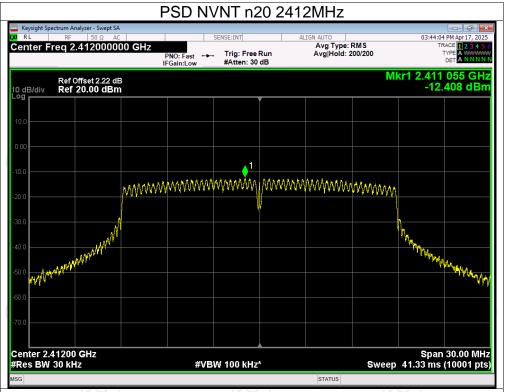


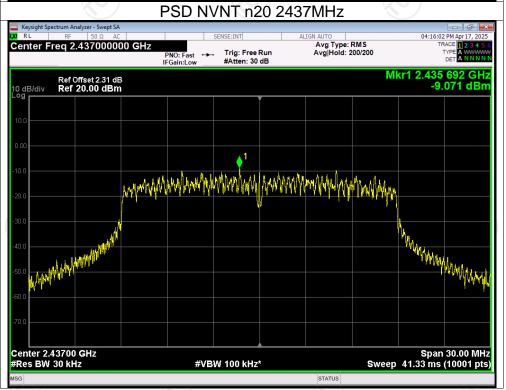




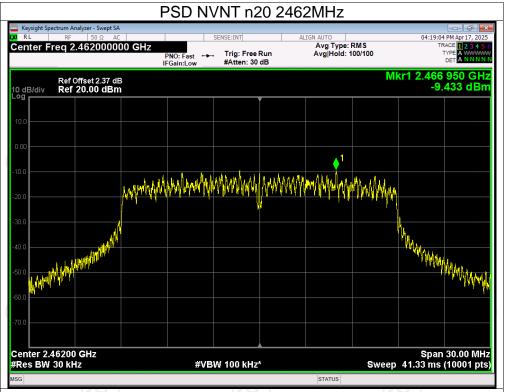


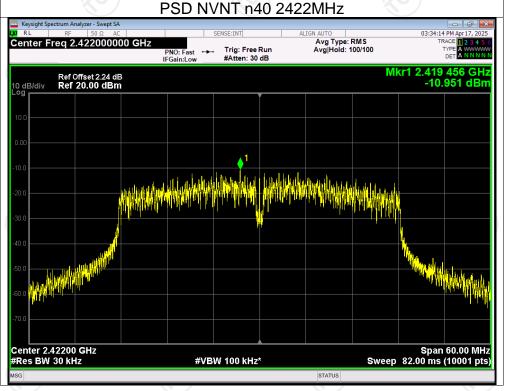




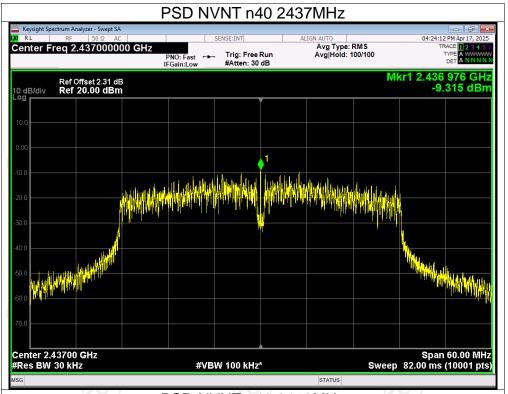


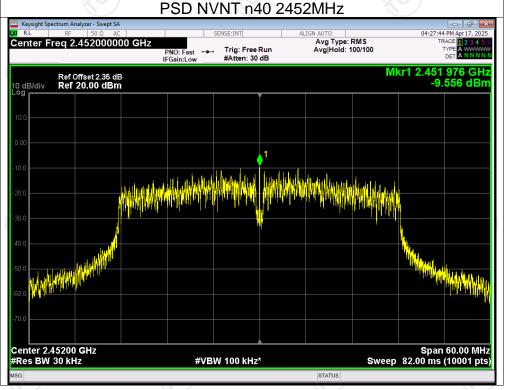












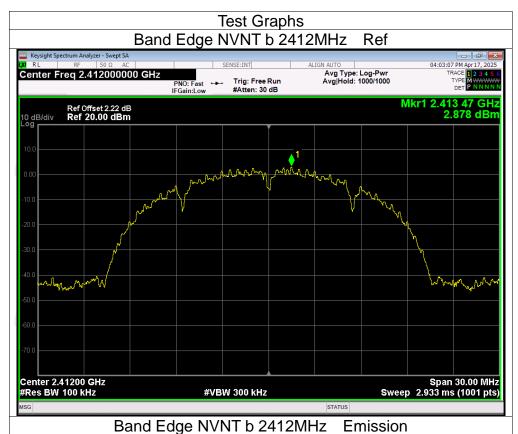


Band Edge

Condition	Mode	Frequency (MHz)	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	-54.11	-30	Pass
NVNT	b	2462	-54.48	-30	Pass
NVNT	g	2412	-50.81	-30	Pass
NVNT	g	2462	-50.48	-30	Pass
NVNT	n20	2412	-44.35	-30	Pass
NVNT	n20	2462	-49.65	-30	Pass
NVNT	n40	2422	-42.02	-30	Pass
NVNT	n40	2452	-41.49	-30	Pass



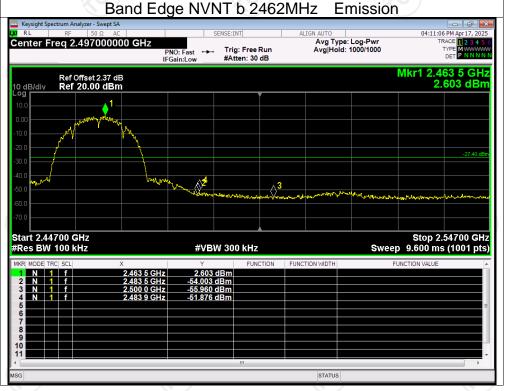




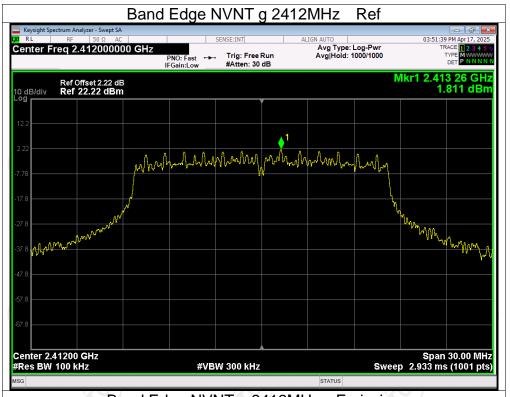






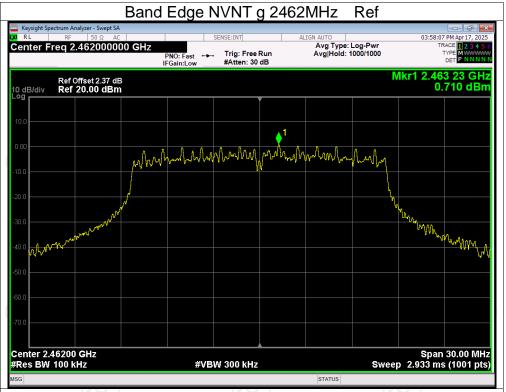


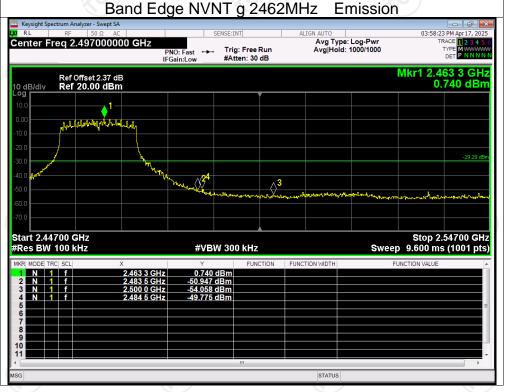




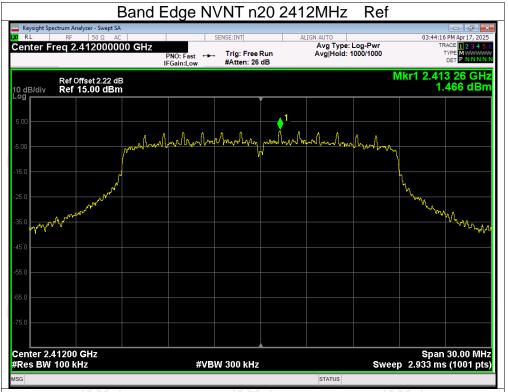


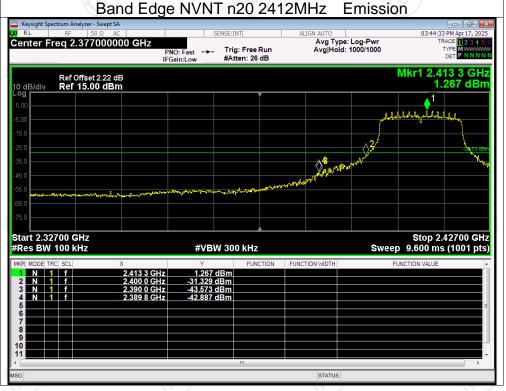




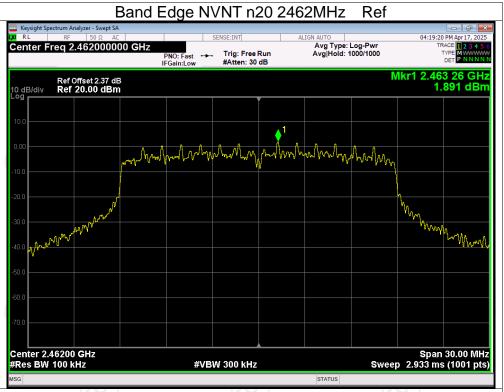


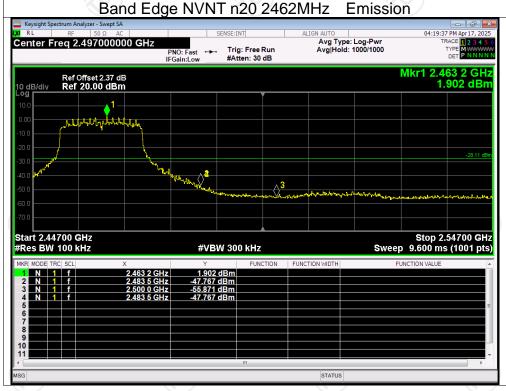




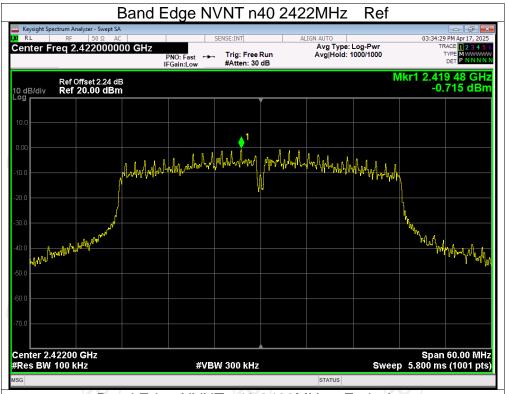


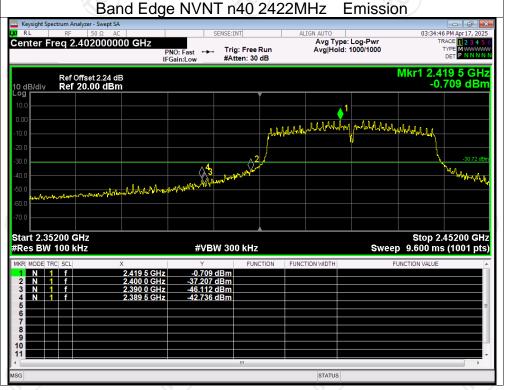




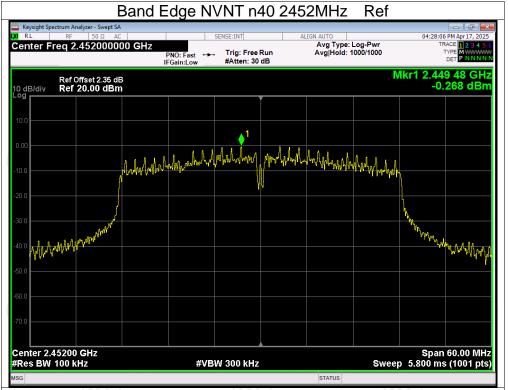


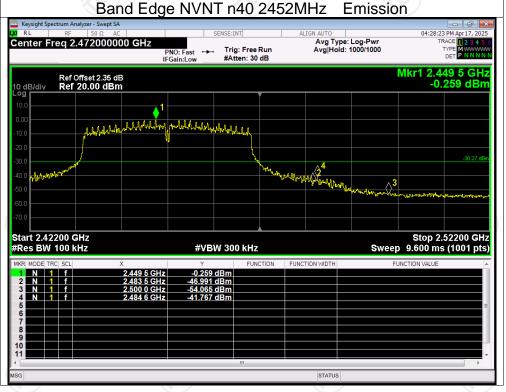












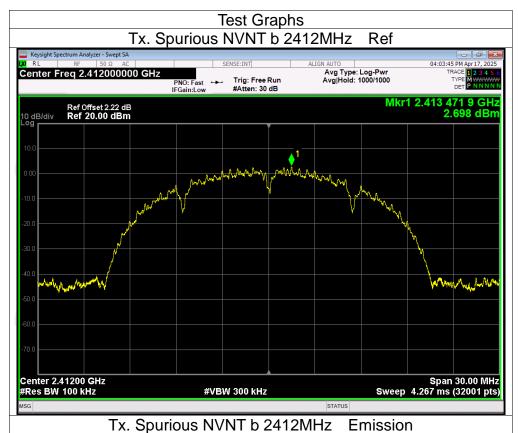


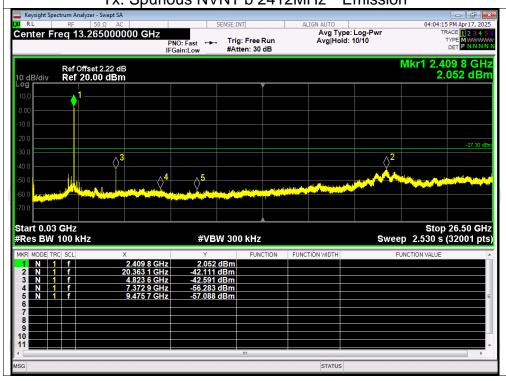
Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	-44.81	-30	Pass
NVNT	b	2437	-43.68	-30	Pass
NVNT	b	2462	-43.91	-30	Pass
NVNT	g	2412	-43.77	-30	Pass
NVNT	g	2437	-43.17	-30	Pass
NVNT	g	2462	-42.93	-30	Pass
NVNT	n20	2412	-39.49	-30	Pass
NVNT	n20	2437	-44.29	-30	Pass
NVNT	n20	2462	-43.83	-30	Pass
NVNT	n40	2422	-48.94	-30	Pass
NVNT	n40	2437	-42.36	-30	Pass
NVNT	n40	2452	-42.66	-30	Pass



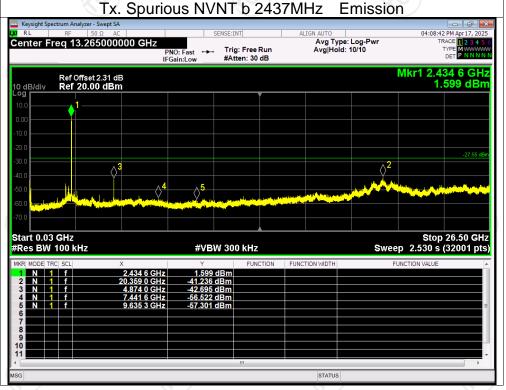






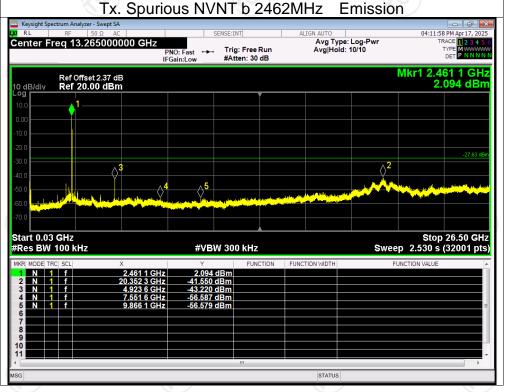




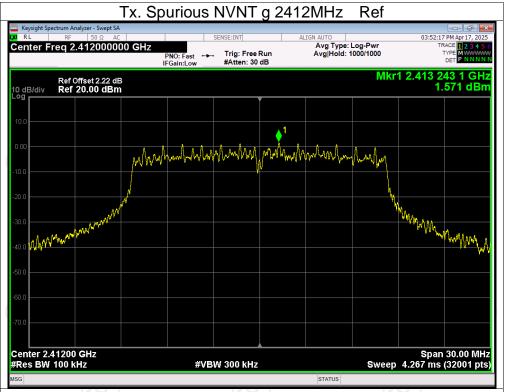


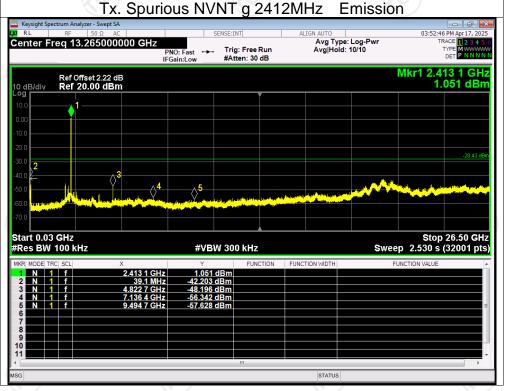




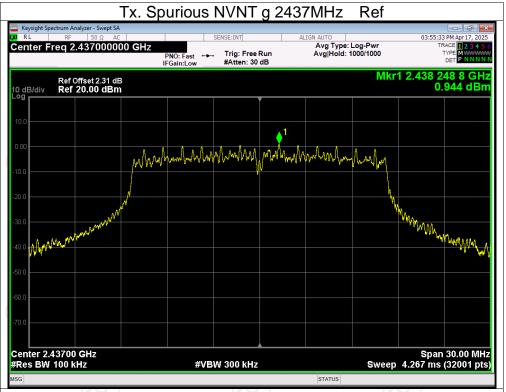


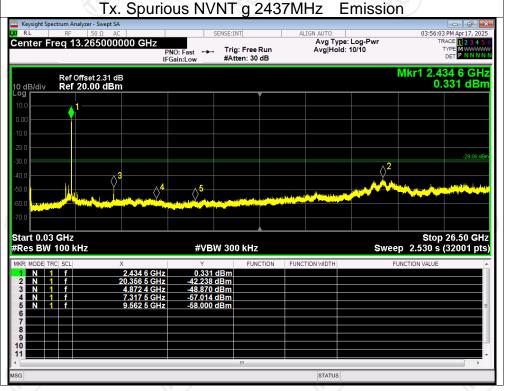




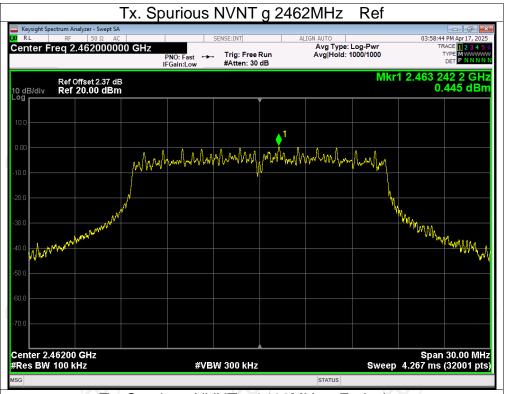


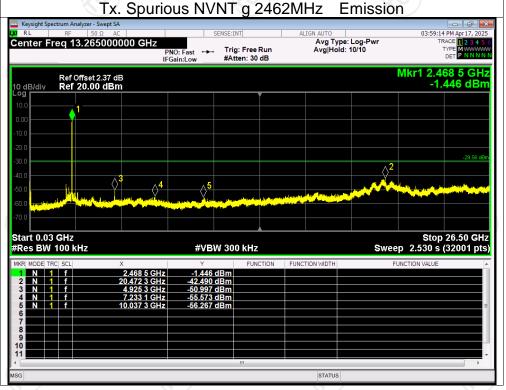




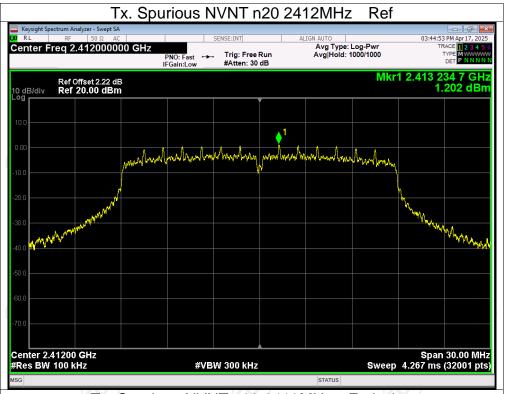


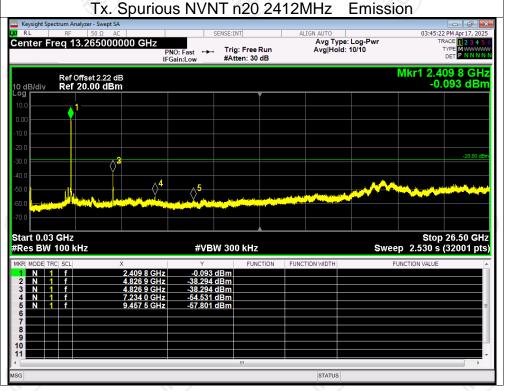




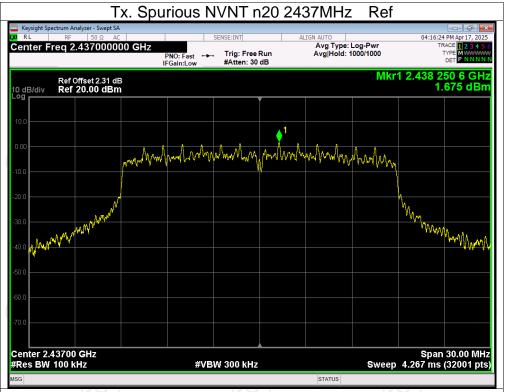


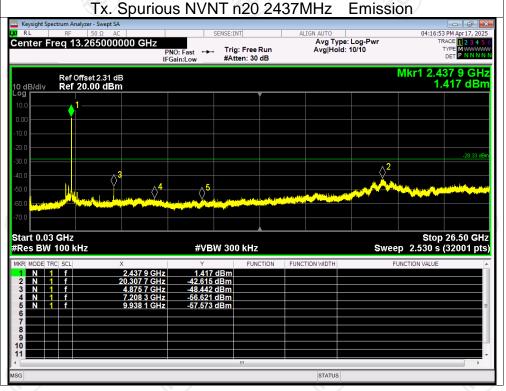




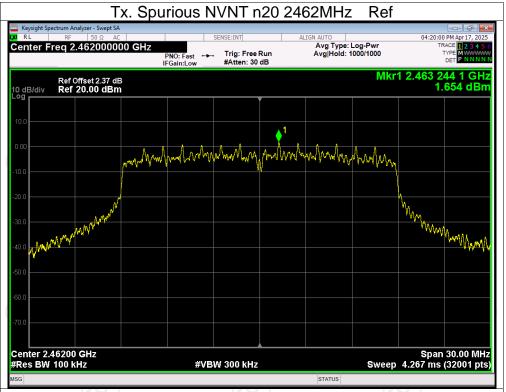


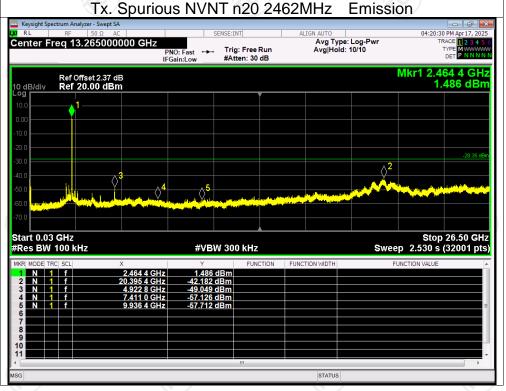




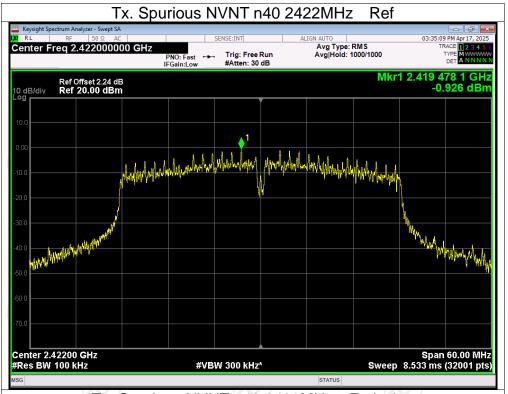


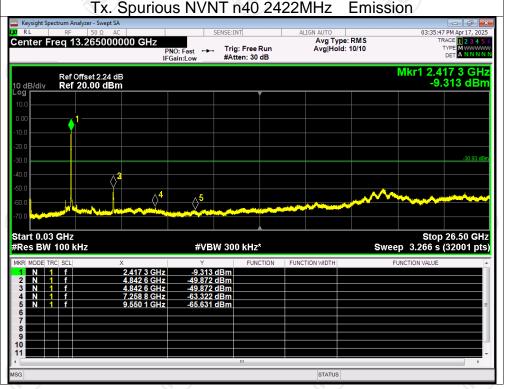




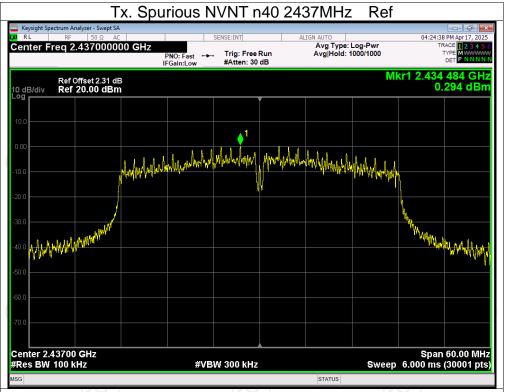


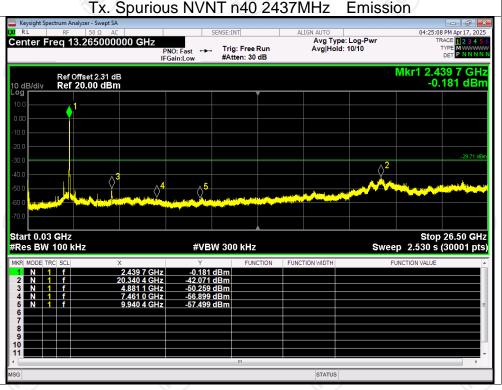




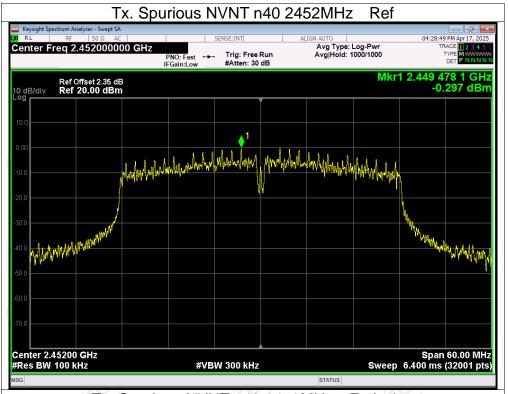


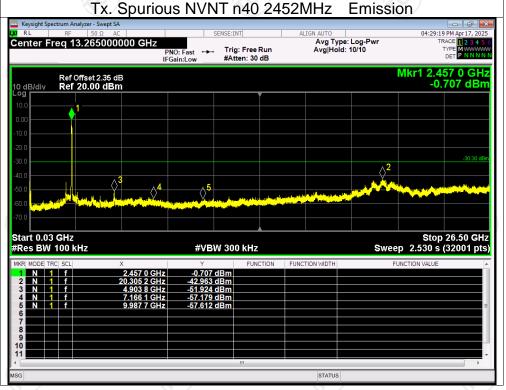














Appendix B: Photographs of Test Setup

Please refer to document Appendix No.: TCT250416E015-A

Appendix C: Photographs of EUT

Please refer to document Appendix No.: TCT250416E015-B & TCT250416E015-C



