

	TEST REPORT				
FCC ID:	2AFX2BM926-2				
Test Report No::	TCT241212E013				
Date of issue::	Dec. 24, 2024				
Testing laboratory::	SHENZHEN TONGCE TESTING LAB				
Testing location/ address:	2101 & 2201, Zhenchang Factory, Renshan Industrial Zone, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, 518103, People's Republic of China				
Applicant's name:	Shenzhen Feelstorm Technology Co., Ltd				
Address::	Floor 5th, Building C, Huawan Industrial Park, Gushu, Xixiang Street, Bao'an District, Shenzhen, China				
Manufacturer's name:	Shenzhen Feelstorm Technology Co., Ltd				
Address::	Floor 5th, Building C, Huawan Industrial Park, Gushu, Xixiang Street, Bao'an District, Shenzhen, 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:	Video Baby Monitor				
Trade Mark:	N/A				
Model/Type reference:	BM926				
Rating(s)::	Adapter Information: MODEL: KA06E-0501000US Input: AC 100-240V, 50/60Hz, 0.25A Max. Output: DC 5V, 1000mA				
Date of receipt of test item:	Dec. 12, 2024				
Date (s) of performance of test:	Dec. 12, 2024 ~ Dec. 24, 2024				
Tested by (+signature):	Ronaldo LUO				
Check by (+signature):	Beryl ZHAO Roy(TCT)				
Approved by (+signature):	Tomsin				

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1. General Product Information

1.1. EUT description

Product Name:	Video Baby Monitor
Model/Type reference:	BM926
Sample Number:	TCT241212E012-0101
Operation Frequency:	2412MHz~2462MHz (802.11b/802.11g/802.11n(HT20))
Channel Separation:	5MHz
Number of Channel:	11 for 802.11b/802.11g/802.11n(HT20)
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:	FPC Antenna
Antenna Gain:	4.16dBi
Rating(s)::	Adapter Information: MODEL: KA06E-0501000US Input: AC 100-240V, 50/60Hz, 0.25A Max. Output: DC 5V, 1000mA

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

1.2. Model(s) list

None.



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1.3. Operation Frequency

For 802.11b/g/n(HT20)

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		

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





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:	22.8 °C	21.4 °C			
Humidity:	49 % RH	51 % RH			
Atmospheric Pressure:	1010 mbar	1010 mbar			
Test Software:					
Software Information:	SecureCRT				
Power Level:	12	Ch.			
Test Mode:					
Engineer mode: Keep the EUT in continuous transmitting by select channel and modulations with max duty cycle					

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



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
1	1	/	/	1

Note:

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



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4. Facilities and Accreditations

4.1. Facilities

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

• FCC - Registration No.: 645098

SHENZHEN TONGCE TESTING LAB

Designation Number: CN1205

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

•IC - Registration No.: 10668A

SHENZHEN TONGCE TESTING LAB

CAB identifier: CN0031

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

4.2. Location

SHENZHEN TONGCE TESTING LAB

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

TEL: +86-755-27673339

4.3. Measurement Uncertainty

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

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



5. Test Results and Measurement Data

5.1. Antenna requirement

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

15.203 requirement:

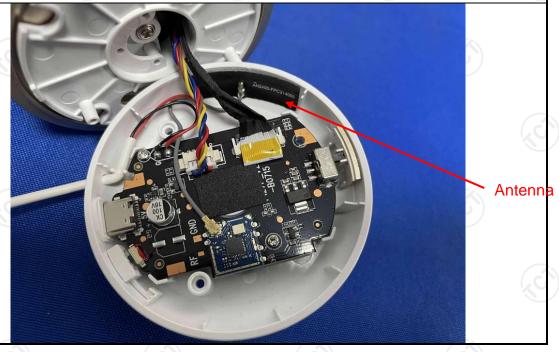
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit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

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

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

E.U.T Antenna:

The WIFI antenna is FPC antenna which permanently attached, and the best case gain of the antenna is 4.16dBi.



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5.2. Conducted Emission

5.2.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.207				
Test Method:	ANSI C63.10:2020				
Frequency Range:	150 kHz to 30 MHz				
Receiver setup:	RBW=9 kHz, VBW=30	kHz, Sweep time	=auto		
Limits:	Frequency range (MHz) Quasi-peak Average 0.15-0.5 66 to 56* 56 to 46				
	Reference	e Plane			
Test Setup:	E.U.T AC power Test table/Insulation plane Remark E.U.T. Equipment Under Test LISN: Line Impedence Stabilization Network Test table height=0.8m				
Test Mode:	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 500hm/50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 500hm/50uH coupling impedance with 500hm 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	Calibration Due		
EMI Test Receiver	R&S	ESCI3	100898	Jun. 26, 2025		
LISN	Schwarzbeck	NSLK 8126	8126453	Jan. 31, 2025		
Attenuator	N/A	10dB	164080	Jun. 26, 2025		
Line-5	TCT	CE-05	/	Jun. 26, 2025		
EMI Test Software	EZ_EMC	EMEC-3A1	1.1.4.2	1 6		



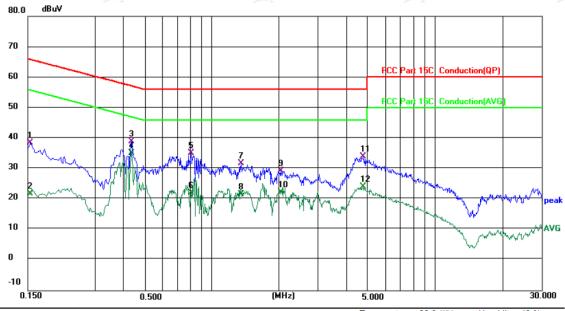


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5.2.3. Test data

Please refer to following diagram for individual

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



Site 844 Shielding Room

Phase: L1

Temperature: 22.8 (°C)

Humidity: 49 %

Limit: FCC Part 15C Conduction(QP)

Power: 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		0.1539	28.84	9.67	38.51	65.79	-27.28	QP	
2		0.1539	12.06	9.67	21.73	55.79	-34.06	AVG	
3		0.4380	28.77	10.10	38.87	57.10	-18.23	QP	
4	*	0.4380	25.08	10.10	35.18	47.10	-11.92	AVG	
5		0.8100	24.51	10.52	35.03	56.00	-20.97	QP	
6		0.8100	11.63	10.52	22.15	46.00	-23.85	AVG	
7		1.3580	21.95	9.78	31.73	56.00	-24.27	QP	
8		1.3580	11.93	9.78	21.71	46.00	-24.29	AVG	
9		2.0379	19.46	9.85	29.31	56.00	-26.69	QP	
10		2.0379	12.48	9.85	22.33	46.00	-23.67	AVG	
11		4.7938	23.86	10.18	34.04	56.00	-21.96	QP	
12		4.7938	13.84	10.18	24.02	46.00	-21.98	AVG	

Note:

Freq. = Emission frequency in MHz

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

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

Measurement (dB μ V) = Reading level (dB μ 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

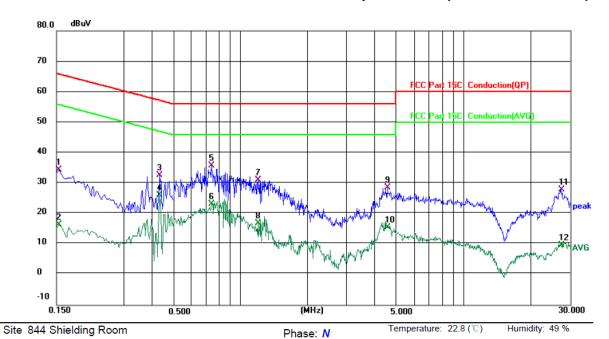
AVG =average

^{*} 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)



Limit: FCC Part 15C	Conduction(QP)	Power:	AC 120 V/60 Hz

	it. i C	C Fait 13	Danding		Manager		01. 710 12		
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1539	24.87	9.65	34.52	65.79	-31.27	QP	
2		0.1539	6.73	9.65	16.38	55.79	-39.41	AVG	
3		0.4339	22.68	10.07	32.75	57.18	-24.43	QP	
4		0.4339	16.13	10.07	26.20	47.18	-20.98	AVG	
5	*	0.7459	25.35	10.41	35.76	56.00	-20.24	QP	
6		0.7459	12.70	10.41	23.11	46.00	-22.89	AVG	
7		1.2019	21.44	9.72	31.16	56.00	-24.84	QP	
8		1.2019	7.12	9.72	16.84	46.00	-29.16	AVG	
9		4.5500	18.49	10.06	28.55	56.00	-27.45	QP	
10		4.5500	5.38	10.06	15.44	46.00	-30.56	AVG	
11		27.2779	17.32	10.67	27.99	60.00	-32.01	QP	
12		27.2779	-0.87	10.67	9.80	50.00	-40.20	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 (Peak) 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:	Power meter EUT
Test Mode:	Transmitting mode with modulation
Test Procedure:	 The RF output of EUT was connected to the power meter 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 Peak output power and record the results in the test report.
Test Result:	PASS

5.3.2. Test Instruments

Equipment	Manufacturer	Model	Serial Number	Calibration Due
Power Sensor	Agilent	8184A	MY41096530	Jun. 26, 2025
Power Meter	Agilent	E4418B	MY45100357	Jun. 26, 2025

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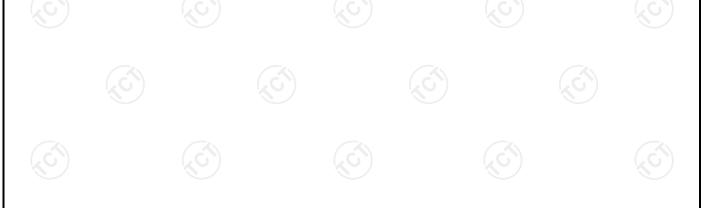
5.4. Emission Bandwidth

5.4.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (a)(2)					
Test Method:	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	Serial Number	Calibration Due	
Spectrum Analyzer	Agilent	N9020A	MY49100619	Jun. 26, 2025	
Combiner Box	Ascentest	AT890-RFB	(3) 1	(6)	





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 = Peak, Sweep time = auto couple. Trace mode =max hold. 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	Serial Number	Calibration Due		
Spectrum Analyzer	Agilent	N9020A	MY49100619	Jun. 26, 2025		
Combiner Box	Ascentest	AT890-RFB	1 (3)	1 6		

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5.6. Conducted Band Edge and Spurious Emission Measurement

5.6.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (d)					
Test Method:	KDB 558074 D01 v05r02					
Limit:	In any 100 kHz bandwidth outside of the authorized frequency band, the emissions which fall in the non-restricted bands shall be attenuated at least 20 dB / 30dB relative to the maximum PSD level in 100 kHz by RF conducted measurement and radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a).					
Test Setup:	Spectrum Analyzer EUT					
Test Mode:	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. Set RBW = 100 kHz, VBW=300 kHz, Peak Detector. Unwanted Emissions measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz when maximum peak conducted output power procedure is used. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB per 15.247(d). Measure and record the results in the test report. The RF fundamental frequency should be excluded against the limit line in the operating frequency band. 					
Test Result:	PASS					

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5.6.2. Test Instruments

Equipment	Manufacturer	Model	Serial Number	Calibration Due	
Spectrum Analyzer	Agilent	N9020A	MY49100619	Jun. 26, 2025	
Combiner Box	Ascentest	AT890-RFB	1	/	



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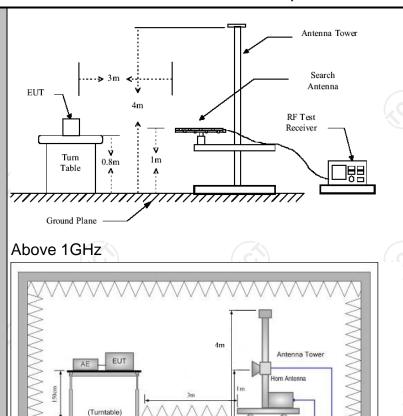
5.7. Radiated Spurious Emission Measurement

5.7.1. Test Specification

Test Requirement:	FCC Part15	FCC Part15 C Section 15.209								
Test Method:	ANSI C63.10	0:2020								
Frequency Range:	9 kHz to 25 (GHz				// .				
Measurement Distance:	3 m	(<	<u>(3)</u>		(C					
Antenna Polarization:	Horizontal &	Vertical								
Operation mode:	Transmitting	mode wit	h modulat	ion						
Receiver Setup:	Frequency 9kHz- 150kHz 150kHz- 30MHz 30MHz-1GHz	Detector Quasi-peak Quasi-peak Quasi-peak	9kHz	VBW 1kHz 30kHz	Qua	Remark si-peak Value si-peak Value si-peak Value				
	Above 1GHz	Peak Peak	1MHz 1MHz	3MHz 10Hz		eak Value erage Value				
Limit:	Frequency 0.009-0.490 0.490-1.705 1.705-30 30-88 88-216 216-960 Above 960		ield Strength D		Measurement Distance (meters) 300 30 30 30 30 30 30 30 30 30 30 30 30					
Test setup:	For radiated Display 100 100 100 100 100 100 100 100 100 10	Turn table	lm	Pre -	Compu	liter Co				







Test Procedure:

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



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	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

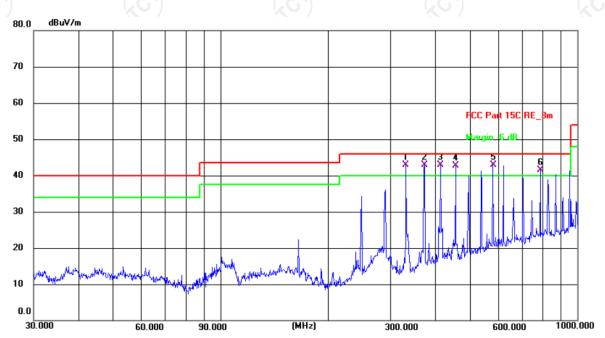
	Radiated Em	nission Test Site	e (966)	
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
EMI Test Receiver	R&S	ESCI7	100529	Jan. 31, 2025
Spectrum Analyzer	R&S	FSQ40	200061	Jun. 26, 2025
Pre-amplifier	SKET	LNPA_0118G- 45	SK2021012 102	Jan. 31, 2025
Pre-amplifier	SKET	LNPA_1840G- 50	SK2021092 03500	Jan. 31, 2025
Pre-amplifier	HP	8447D	2727A05017	Jun. 26, 2025
Loop antenna	Schwarzbeck	FMZB1519B	00191	Jun. 26, 2025
Broadband Antenna	Schwarzbeck	VULB9163	340	Jun. 28, 2025
Horn Antenna	Schwarzbeck	BBHA 9120D	631	Jun. 28, 2025
Horn Antenna	Schwarzbeck	BBHA 9170	00956	Feb. 02, 2025
Coaxial cable	SKET	RE-03-D	/	Jun. 26, 2025
Coaxial cable	SKET	RE-03-M	1	Jun. 26, 2025
Coaxial cable	SKET	RE-03-L	1	Jun. 26, 2025
Coaxial cable	SKET	RE-04-D	1	Jun. 26, 2025
Coaxial cable	SKET	RE-04-M	(6)	Jun. 26, 2025
Coaxial cable	SKET	RE-04-L	1	Jun. 26, 2025
Antenna Mast	Keleto	RE-AM	1	
EMI Test Software	EZ_EMC	FA-03A2 RE+	1.1.4.2	



5.7.3. Test Data

Please refer to following diagram for individual **Below 1GHz**

Horizontal:



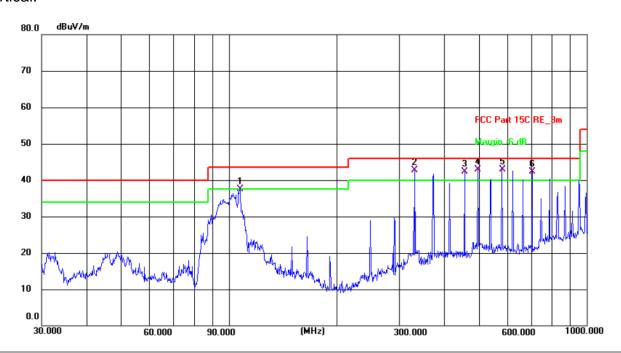
Temperature: 21.4(C) Humidity: 51 % Site 3m Anechoic Chamber2 Polarization: Horizontal

Limit:	FCC Part 15C F	Power: AC 120V/60Hz							
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1 *	331.3546	60.37	-17.37	43.00	46.00	-3.00	QP	Р	
2!	373.3110	58.58	-15.62	42.96	46.00	-3.04	QP	Р	
3 !	414.7223	57.34	-14.39	42.95	46.00	-3.05	QP	Р	
4!	455.9057	56.18	-13.41	42.77	46.00	-3.23	QP	Р	
5 !	580.7025	53.34	-10.53	42.81	46.00	-3.19	QP	Р	
6!	787.8511	48.49	-7.04	41.45	46.00	-4.55	QP	Р	





Vertical:



Site 3m Anechoic Chamber 2 Polarization: Vertical Temperature: 21.4(C) Humidity: 51 %

ı	imit:	FCC	Part	15C	RE	3m

Power: AC 120V/60Hz

LIIIIII. I	FUC Part 15U R	(E JIII				OWEL. F	10 120 1/00	JIIZ	
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1!	107.5100	58.21	-20.61	37.60	43.50	-5.90	QP	Р	
2!	331.3546	59.99	-17.37	42.62	46.00	-3.38	QP	Р	
3 !	455.9058	55.65	-13.41	42.24	46.00	-3.76	QP	Р	
4!	497.6764	55.07	-12.23	42.84	46.00	-3.16	QP	Р	
5 *	580.7026	53.53	-10.53	43.00	46.00	-3.00	QP	Р	
6!	704.2261	51.04	-8.73	42.31	46.00	-3.69	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)), and the worst case Mode (Middle channel and 802.11n(HT20)) 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

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

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

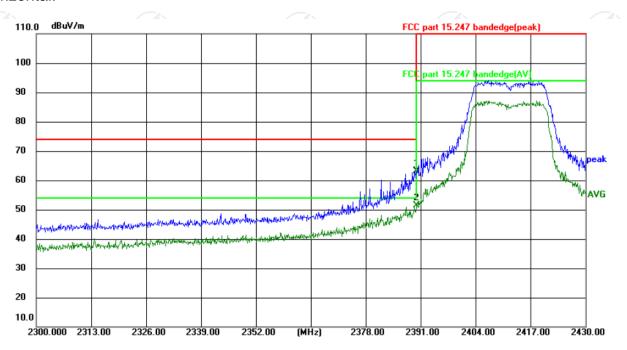




Test Result of Radiated Spurious at Band edges

Lowest channel 2412:

Horizontal:

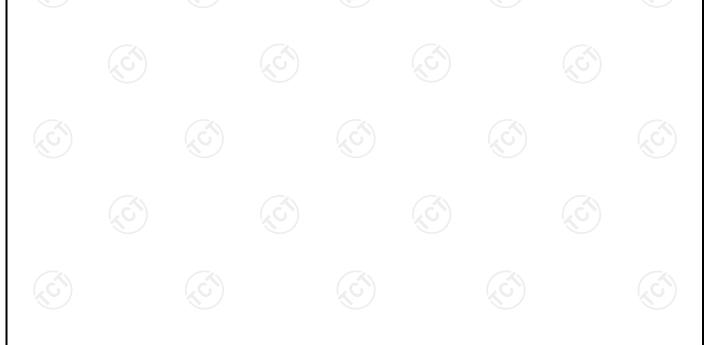


Site: 3m Anechoic Chamber Polarization: Horizontal Temperature: 22.6(°C) Humidity: 38 %

Limit: FCC part 15.247 bandedge(peak)

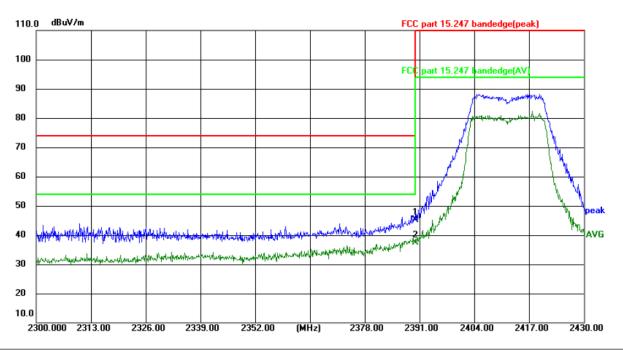
Power: AC 120V/60Hz

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	2390.000	79.73	-16.70	63.03	74.00	-10.97	peak	Р	
2 *	2390.000	68.07	-16.70	51.37	54.00	-2.63	AVG	Р	





Vertical:



Site: 3m Anechoic Chamber Polarization: Vertical Temperature: 22.6(°C) Humidity: 38 %

Limit: FCC part 15.247 bandedge(peak)

Power: AC 120V/60Hz

	No.	Frequency (MHz)	Reading (dBuV)		Level (dBuV/m)		Margin (dB)	Detector	P/F	Remark
	1	2390.000	61.90	-16.70	45.20	74.00	-28.80	peak	Р	
ľ	2 *	2390.000	54.16	-16.70	37.46	54.00	-16.54	AVG	Р	

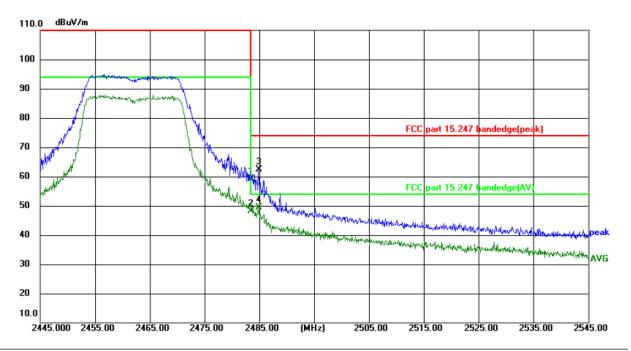
Note: Measurements were conducted in all two channels (high, low) and all modulation (802.11b, 802.11g, 802.11n(HT20)), and the worst case Mode 802.11n(HT20)) was submitted only.





Highest channel 2462:

Horizontal:



Site: 3m Anechoic Chamber Polarization: Horizontal Temperature: 22.6(°C) Humidity: 38 %

Limit: FCC part 15.247 bandedge(peak)

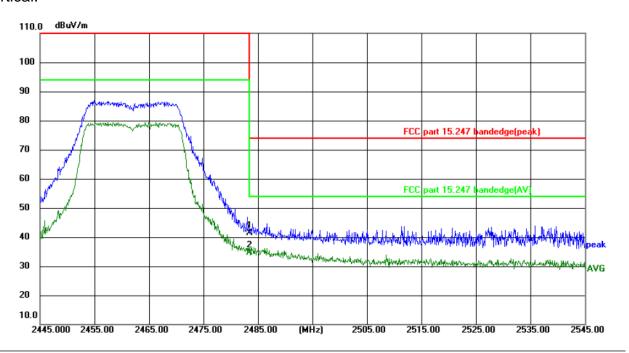
Power: AC 120V/60Hz

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector	P/F	Remark
1	2483.500	75.74	-16.65	59.09	74.00	-14.91	peak	Р	
2	2483.500	64.70	-16.65	48.05	54.00	-5.95	AVG	Р	
3	2484.863	79.15	-16.65	62.50	74.00	-11.50	peak	Р	
4 *	2484.863	66.11	-16.65	49.46	54.00	-4.54	AVG	Р	





Vertical:



Site: 3m Anechoic Chamber Polarization: Vertical Temperature: 22.6(°C) Humidity: 38 %

Limit: FCC part 15.247 bandedge(peak)

Power: AC 120V/60Hz

No.	Frequency (MHz)	Reading (dBuV)			Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	2483.500	58.05	-16.65	41.40	74.00	-32.60	peak	Р	
2 *	2483.500	51.31	-16.65	34.66	54.00	-19.34	AVG	Р	

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 two channels (high, low) and all modulation (802.11b, 802.11g, 802.11n(HT20)), and the worst case Mode 802.11n(HT20)) was submitted only.





Above 1GHz Modulation Type: 802.11b

	Low channel: 2412 MHz												
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBuV)	Correction Factor (dB/m)	Emission Level Peak AV (dBµV/m) (dBµV/n		Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)				
4824	Н	54.03		-9.48	44.55		74	54	-9.45				
7236	Н	45.55		-1.34	44.21		74	54	-9.79				
	Н												
4824	V	54.11		-9.48	44.63		74	54	-9.37				
7236	V	46.98	(,C	-1.34	45.64	C ')	74	54	-8.36				
	V				~)							

	Middle channel: 2437 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)				
4874	Η	55.15		-9.37	45.78		74	54	-8.22				
7311	Н	46.62		-1.17	45.45		74	54	-8.55				
	H				((-4-)					
	(O)		KO		K	0)		(VO)					
4874	V	53.63		-9.37	44.26		74	54	-9.74				
7311	V	46.10		-1.17	44.93		74	54	-9.07				
	V												
			\	(c									

			/ 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	53.07	(-9.26	43.81	<u> </u>	74	54	-10.19
7386	H	45.20		-1.01	44.19)	74	54	-9.81
	Н					-			
4924	V	55.35		-9.26	46.09		74	54	-7.91
7386	V	46.59		-1.01	45.58		74	54	-8.42
	V	-12			<i>/</i>				<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.



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Modulation Type: 802.11g

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	55.61		-9.48	46.13		74	54	-7.87
7236	Н	46.05		-1.34	44.71		74	54	-9.29
/	Н				<u> </u>				
4824	V	55.13		-9.48	45.65		74	54	-8.35
7236	V	47.36	/ /	-1.34	46.02	~~	74	54	-7.98
	V		/ _C			C `)		(, G)	

	Middle channel: 2437 MHz									
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	54.07		-9.37	44.70	-	74	54	-9.30	
7311	Н	47.25		-1.17	46.08		74	54	-7.92	
	Н									
4874	V	54.14	1/0	-9.37	44.77	0)	74	54	-9.23	
7311	٧	45.78		-1.17	44.61		74	54	-9.39	
	V									

					2.				
		High channel: 2462 MHz							(.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	H	53.99		-9.26	44.73		74	54	-9.27
7386	H	46.84	(-1.01	45.83		74	54	-8.17
	Н			/)		``/	
4924	V	55.72		-9.26	46.46		74	54	-7.54
7386	V	45.60		-1.01	44.59		74	54	-9.41
$(-\epsilon)$	V	(- 6)		(, (()		(C)-1-)		(. -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	(HT20)
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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	54.54		-9.48	45.06		74	54	-8.94
7236	Н	46.12		-1.34	44.78		74	54	-9.22
\	Н				/		<u></u>		
4824	V	54.26		-9.48	44.78		74	54	-9.22
7236	V	46.13	/ &	-1.34	44.79	~~	74	54	-9.21
	V		4 _× C	*)		O ')		(, G)	

	Middle channel: 2437 MHz									
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	54.79		-9.37	45.42		74	54	-8.58	
7311	Н	46.54		-1.17	45.37		74	54	-8.63	
	Н									
4874	V	52.71	1/0	-9.37	43.34	<u> </u>	74	54	-10.66	
7311	V	46.27		-1.17	45.10	-	74	54	-8.90	
	V									

					7.				
		High channel: 2462 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)
4924	H	54.18		-9.26	44.92		74	54	-9.08
7386	H	46.02	-	-1.01	45.01		74	54	-8.99
	H			/				/	
4924	V	53.65		-9.26	44.39		74	54	-9.61
7386	V	45.33		-1.01	44.32		74	54	-9.68
(, 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 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.





Appendix A: Test Result of Conducted Test

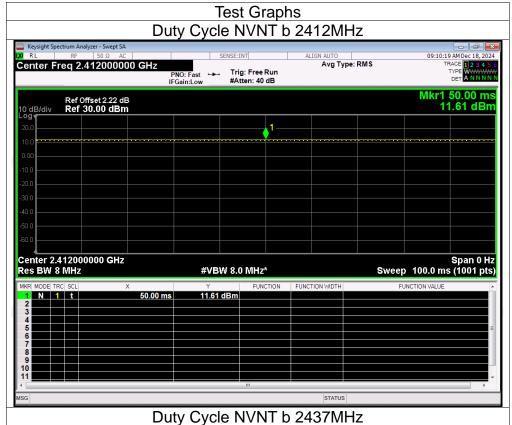
Duty Cycle

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
NVNT	n20	2462	100	0



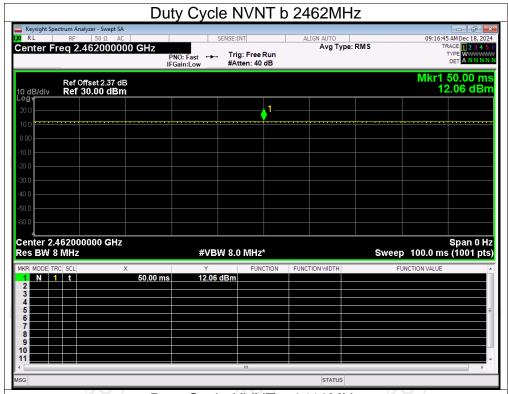


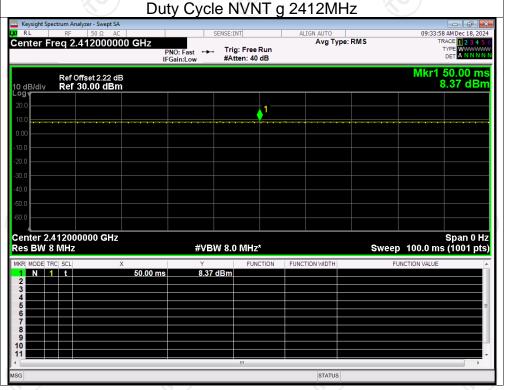




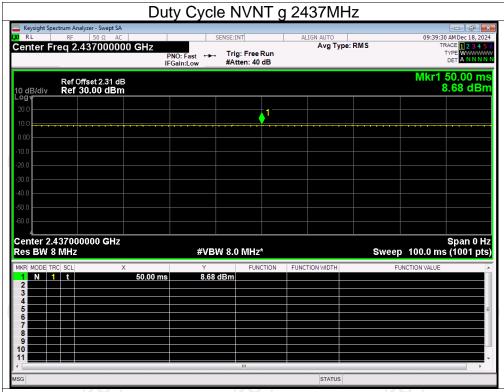


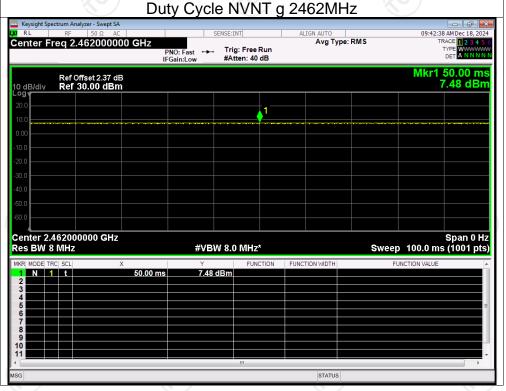




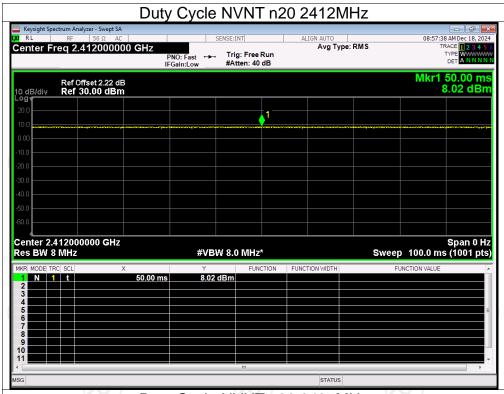


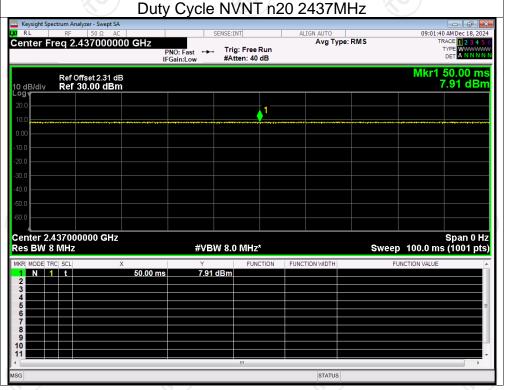






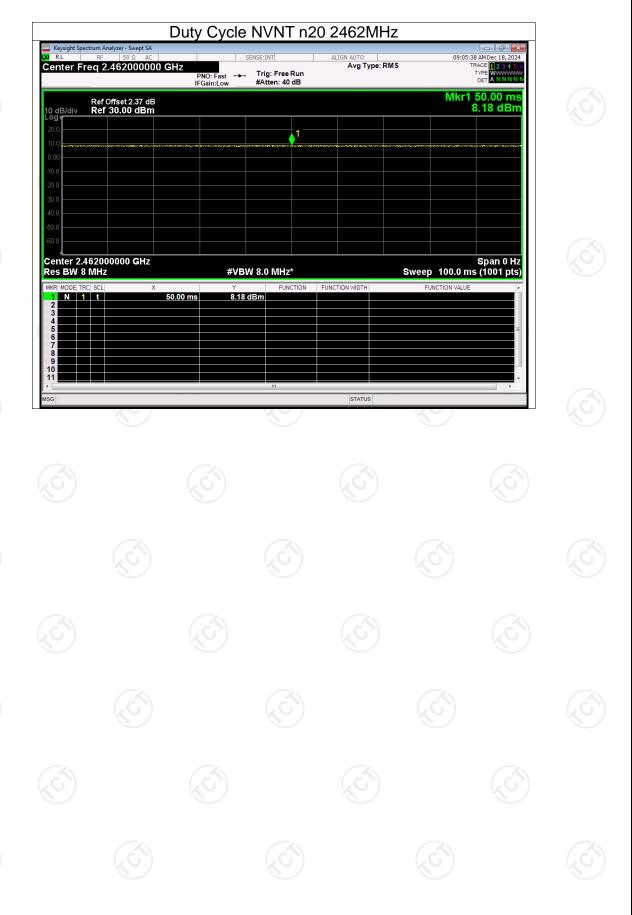














Maximum Conducted (Peak) Output Power

Condition	Mode	Frequency (MHz)	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	13.08	30	Pass
NVNT	b	2437	13.53	30	Pass
NVNT	q	2462	13.31	30	Pass
NVNT	g	2412	12.22	30	Pass
NVNT	g	2437	12.26	30	Pass
NVNT	g	2462	12.30	30	Pass
NVNT	n20	2412	12.22	30	Pass
NVNT	n20	2437	11.92	30	Pass
NVNT	_n20	2462	12.41	30	Pass





-6dB Bandwidth

Condition	Mode	Frequency (MHz)	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	b	2412	10.499	0.5	Pass
NVNT	b	2437	10.477	0.5	Pass
NVNT	b	2462	10.008	0.5	Pass
NVNT	g	2412	16.530	0.5	Pass
NVNT	g	2437	16.410	0.5	Pass
NVNT	g	2462	16.384	0.5	Pass
NVNT	n20	2412	17.777	0.5	Pass
NVNT	n20	2437	17.728	0.5	Pass
NVNT	n20	2462	17.774	0.5	Pass
(0)		(0)			



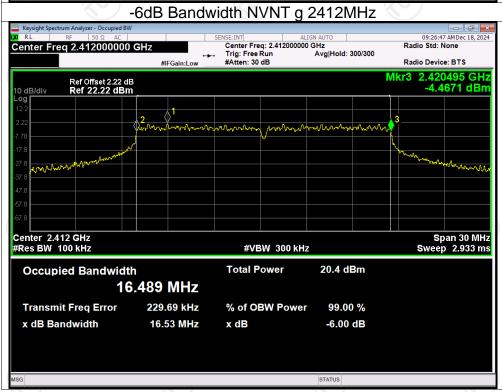






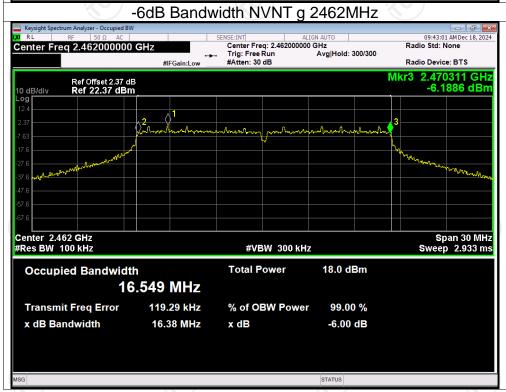




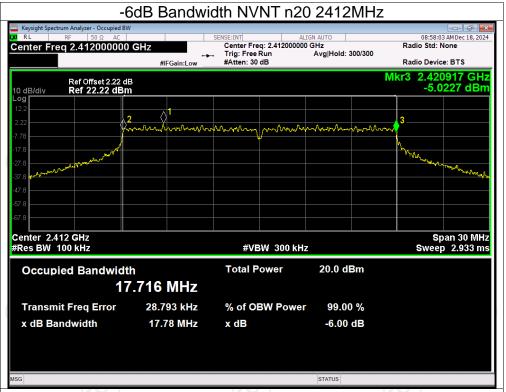


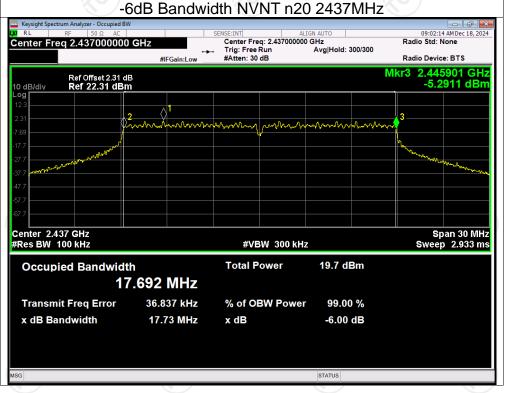




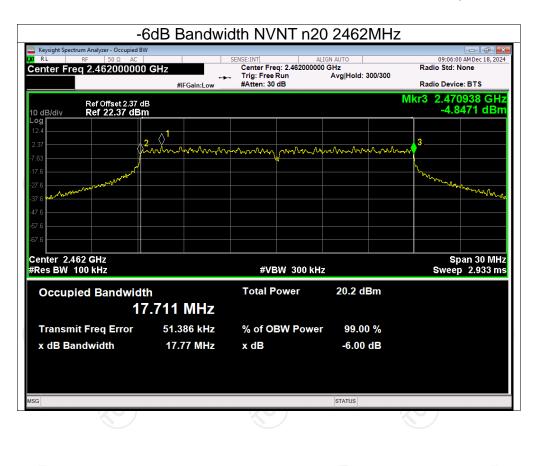
















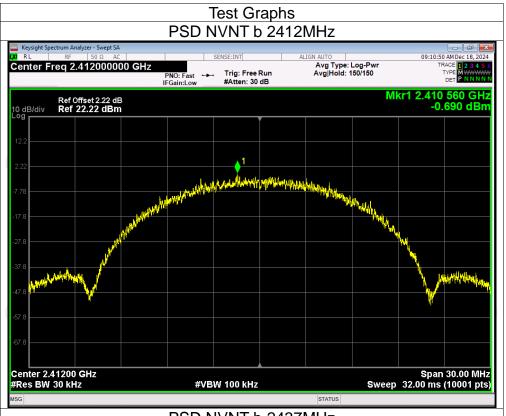
Maximum Power Spectral Density Level

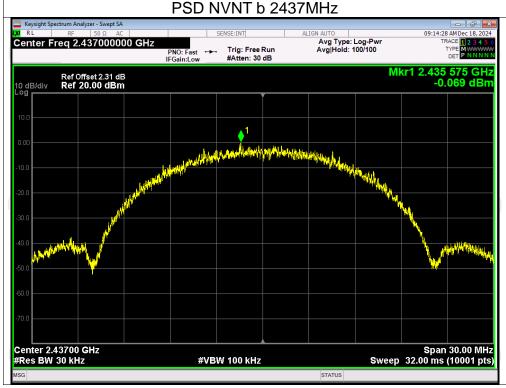
Condition	Mode	Frequency (MHz)	Conducted PSD (dBm/30kHz)	Conducted PSD (dBm/3kHz)	Limit (dBm)	Verdict
NVNT	b	2412	-0.69	-10.69	8	Pass
NVNT	b	2437	-0.07	-10.07	8	Pass
NVNT	b	2462	-0.63	-10.63	8	Pass
NVNT	g	2412	-2.23	-12.23	8	Pass
NVNT	g	2437	-2.61	-12.61	8	Pass
NVNT	g	2462	-4.78	-14.78	8	Pass
NVNT	n20	2412	-3.30	-13.30	8	Pass
NVNT	n20	2437	-3.05	-13.05	8	Pass
NVNT	n20	2462	-3.14	-13.14	8	Pass

Note: Conducted PSD (dBm/3kHz) = Conducted PSD (dBm/30kHz) +10log(3kHz/30kHz)

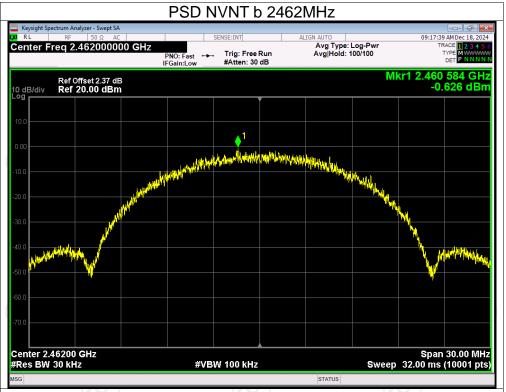


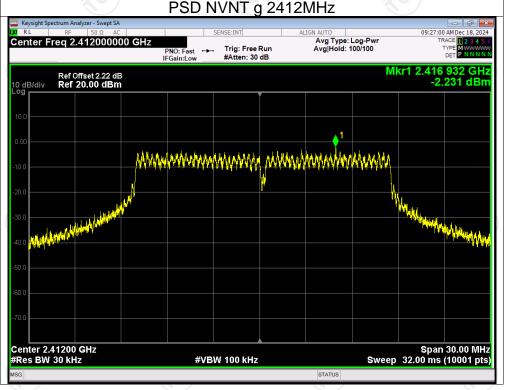




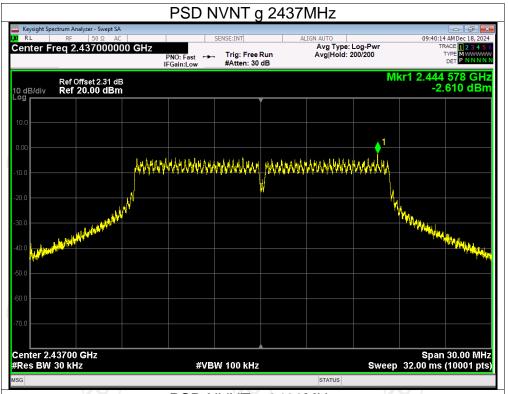


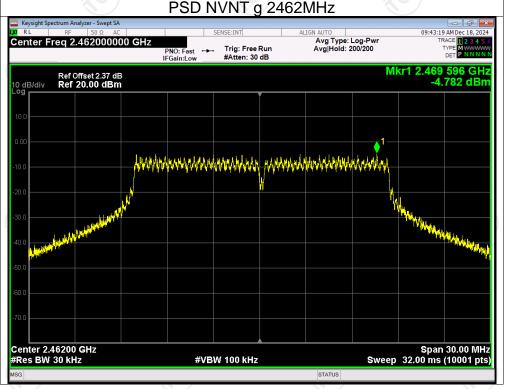




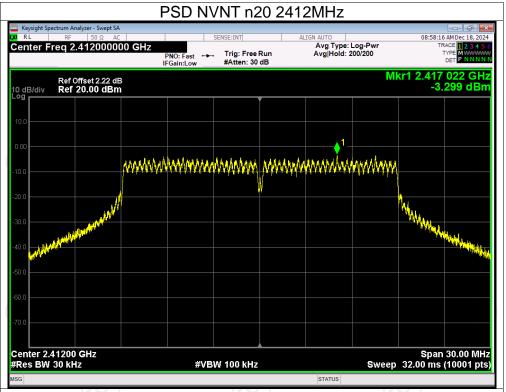


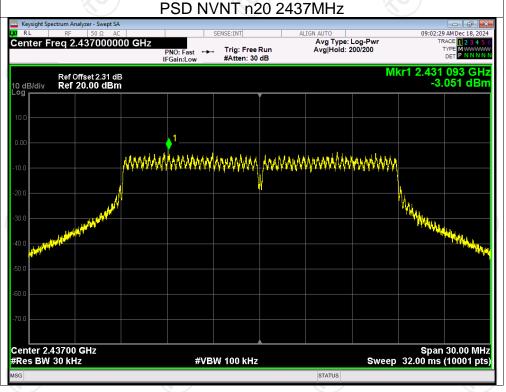




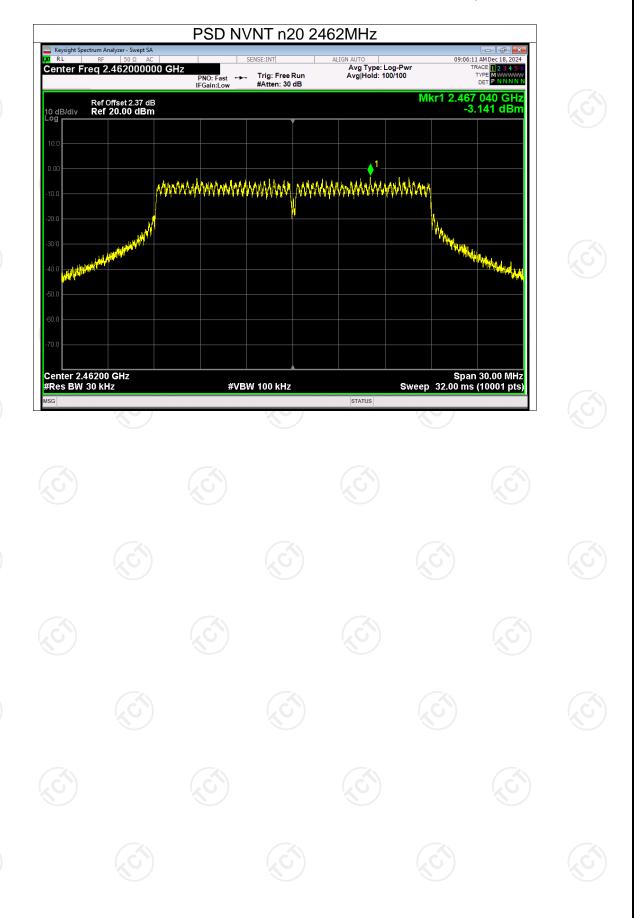








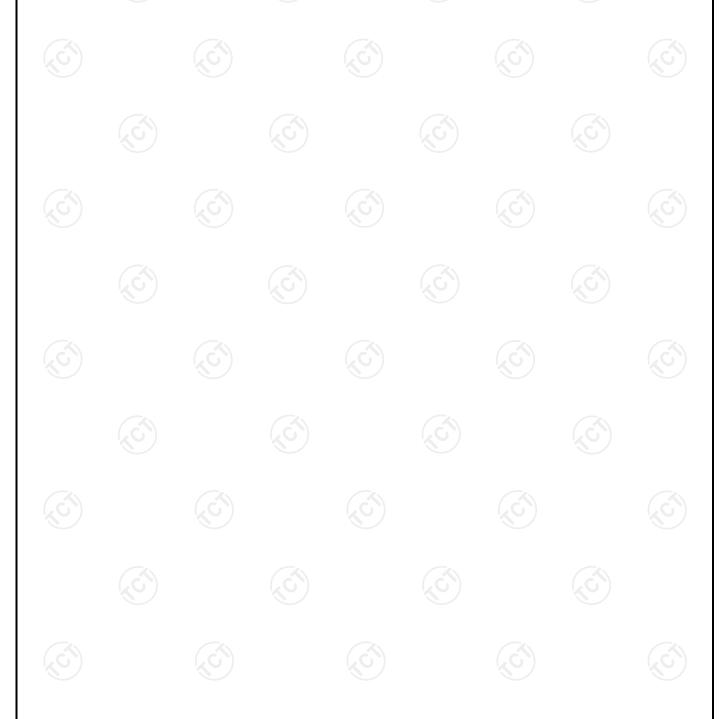




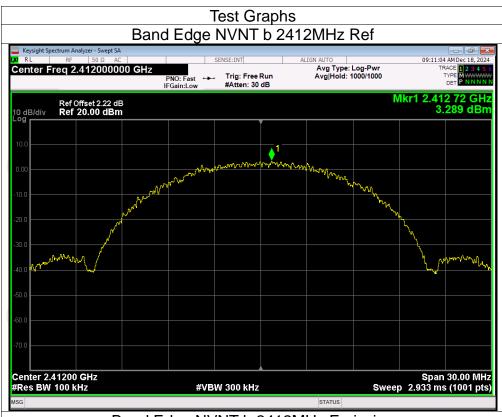


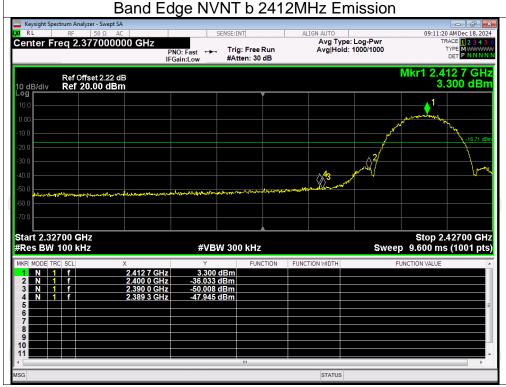
Band Edge

Condition	Mode	Frequency (MHz)	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	-51.23	-20	Pass
NVNT	b	2462	-51.62	-20	Pass
NVNT	g	2412	-44.17	-20	Pass
NVNT	g	2462	-40.96	-20	Pass
NVNT	n20	2412	-42.72	-20	Pass
NVNT	n20	2462	-41.85	-20	Pass

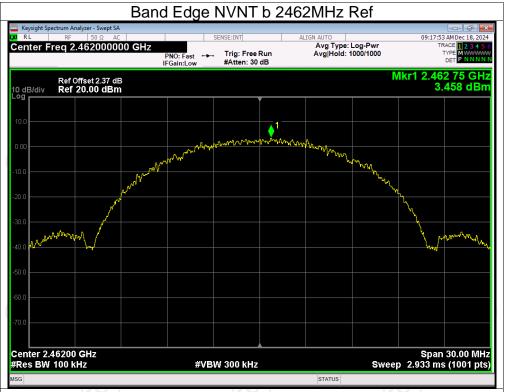


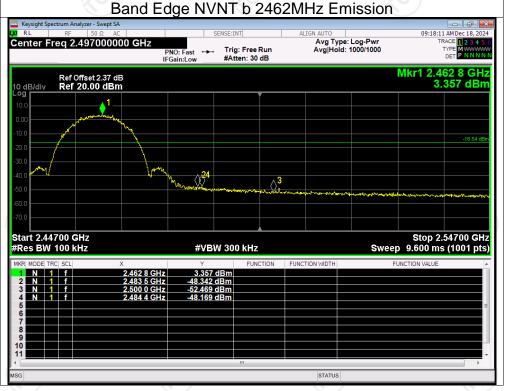




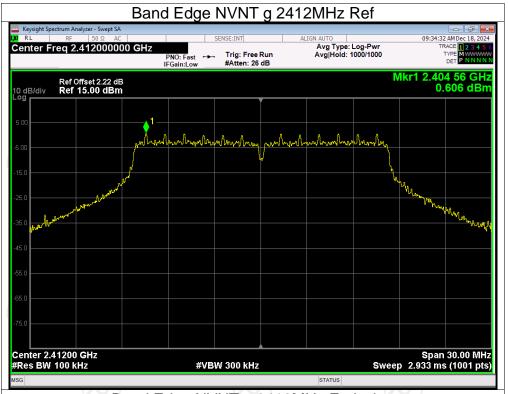


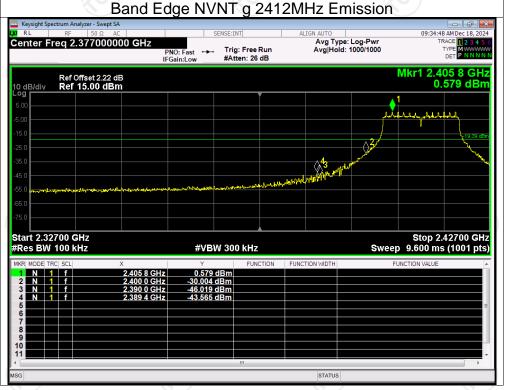




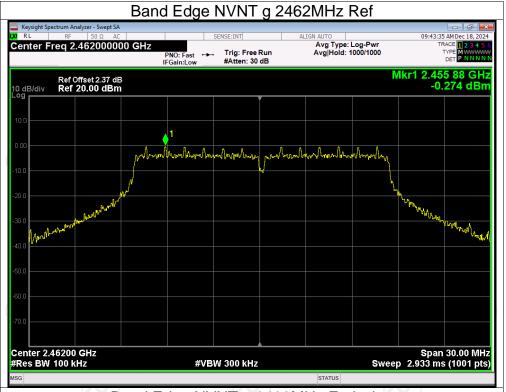


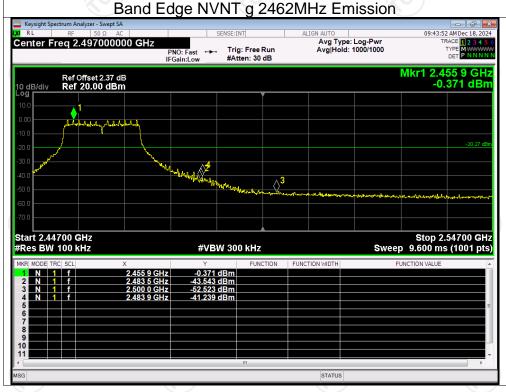




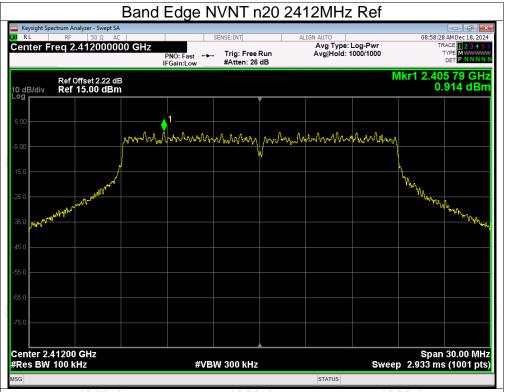


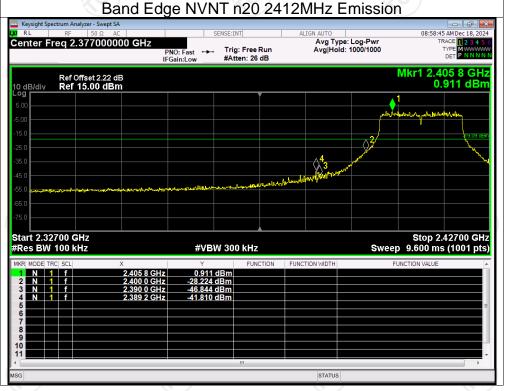




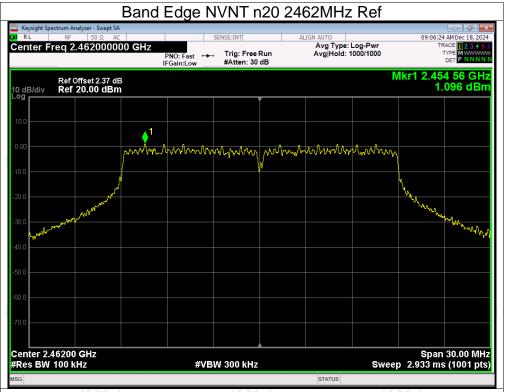


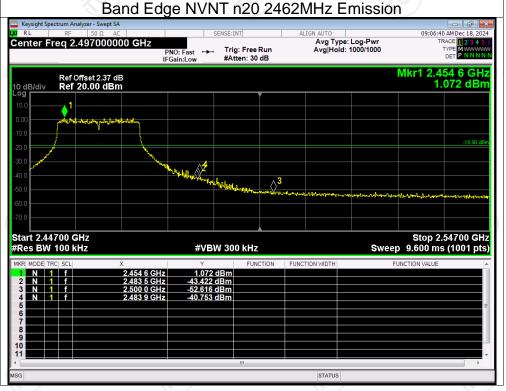












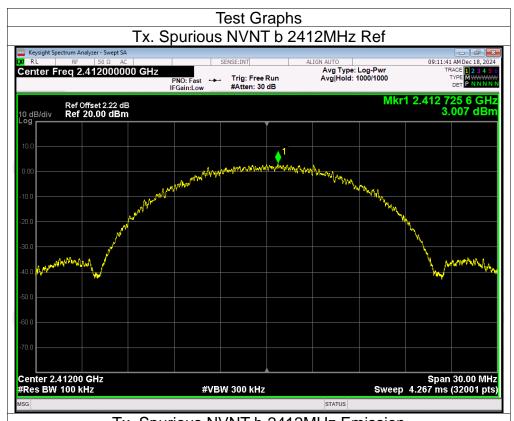


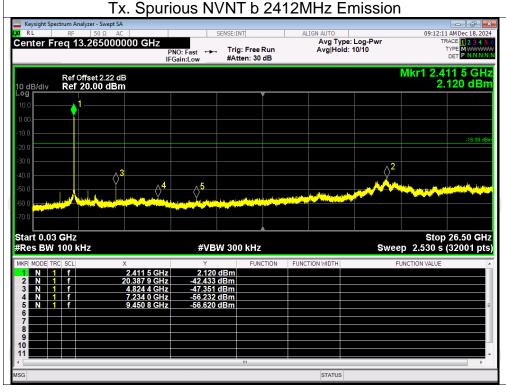
Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	-45.44	-20	Pass
NVNT	b	2437	-45.69	-20	Pass
NVNT	b	2462	-45.72	-20	Pass
NVNT	g	2412	-42.71	-20	Pass
NVNT	g	2437	-43.28	-20	Pass
NVNT	g	2462	-42.10	-20	Pass
NVNT	n20	2412	-42.85	-20	Pass
NVNT	n20	2437	-43.03	-20	Pass
NVNT	n20	2462	-43.13	-20	Pass

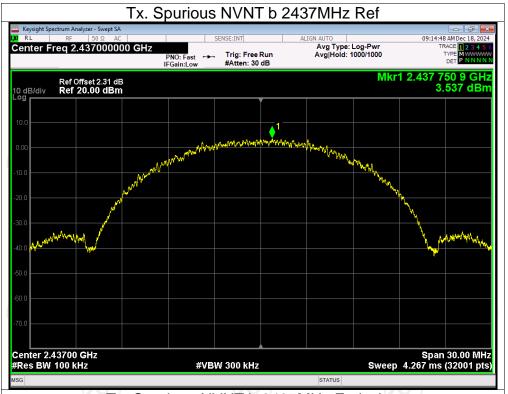


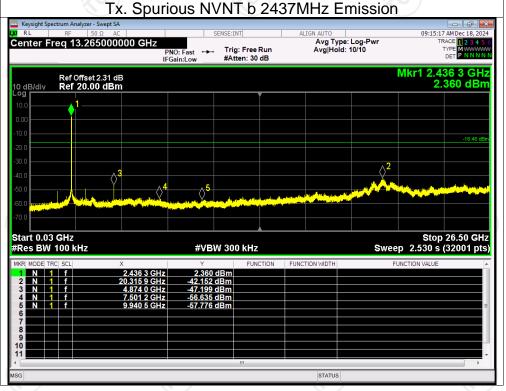




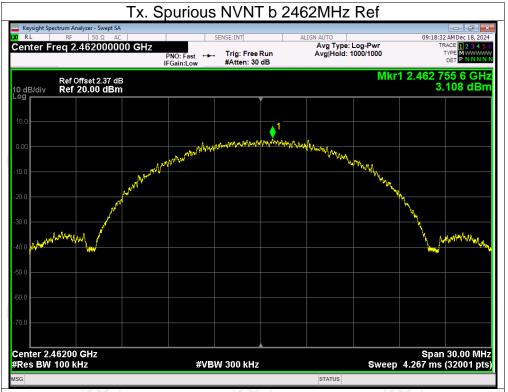


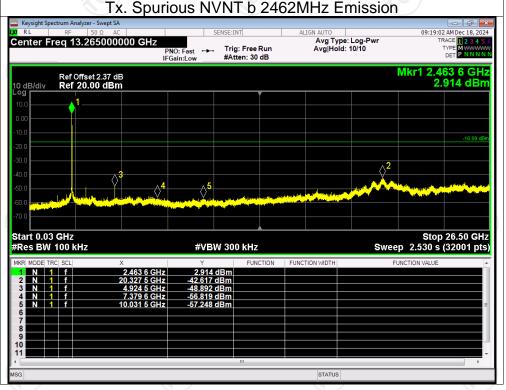




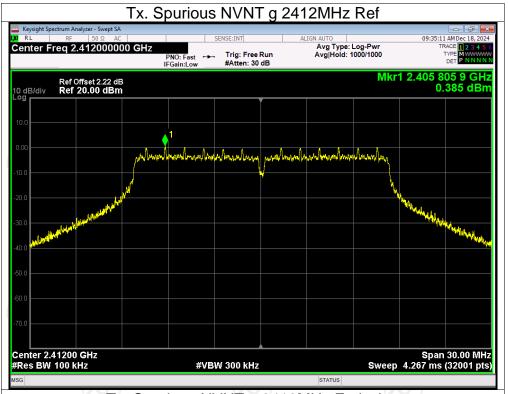


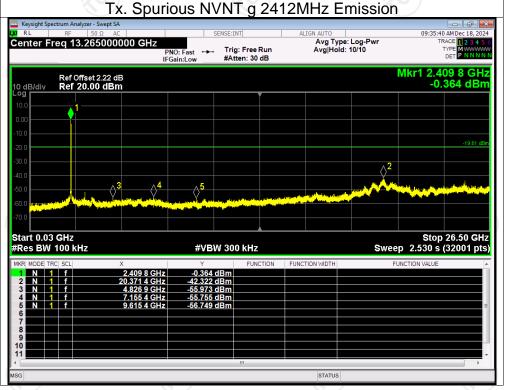




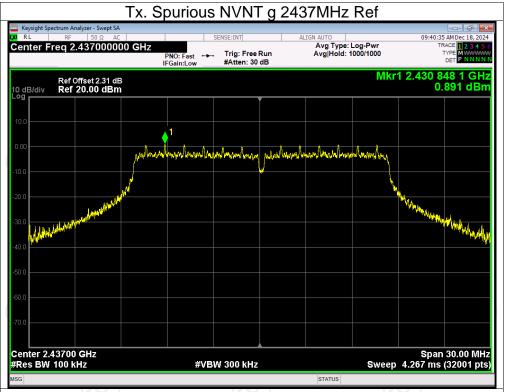


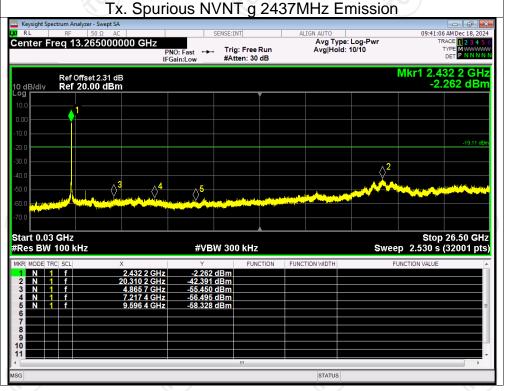




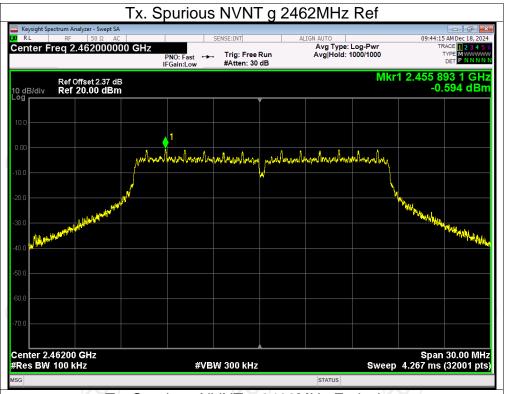


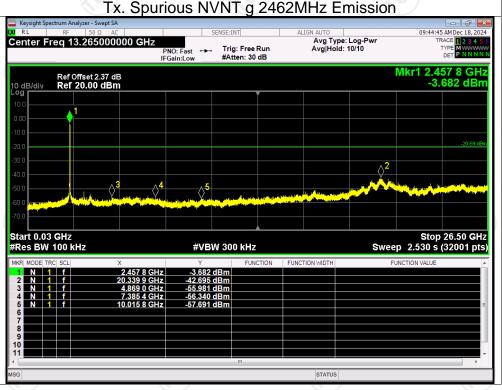




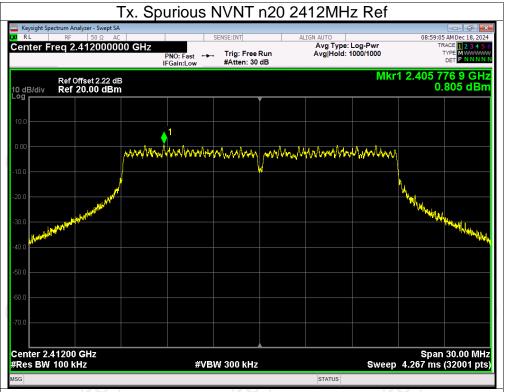


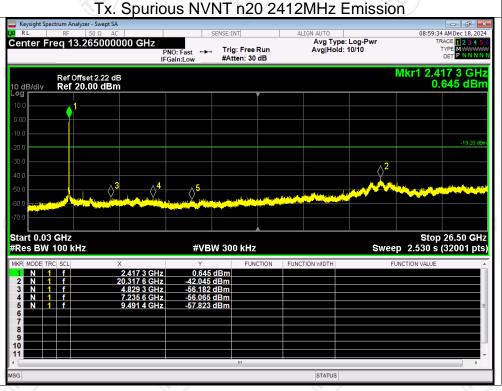




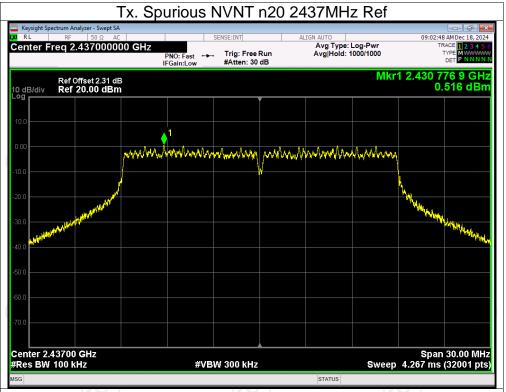


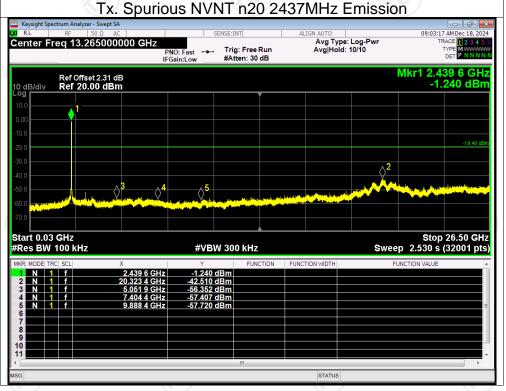




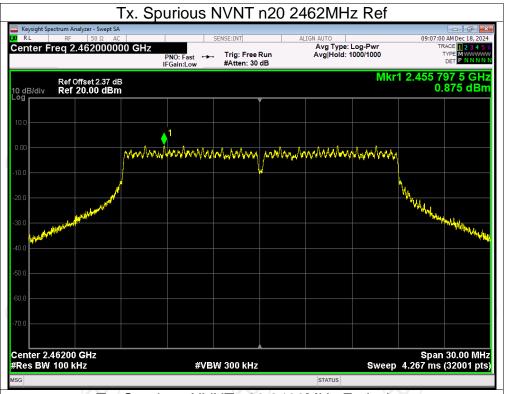


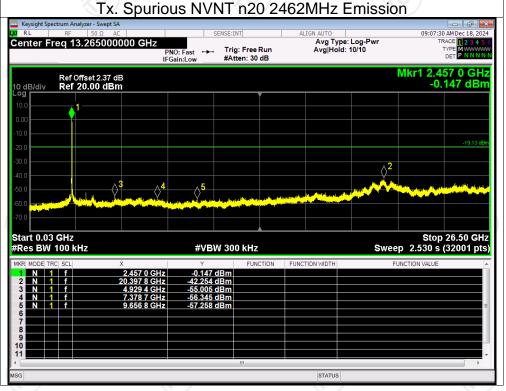












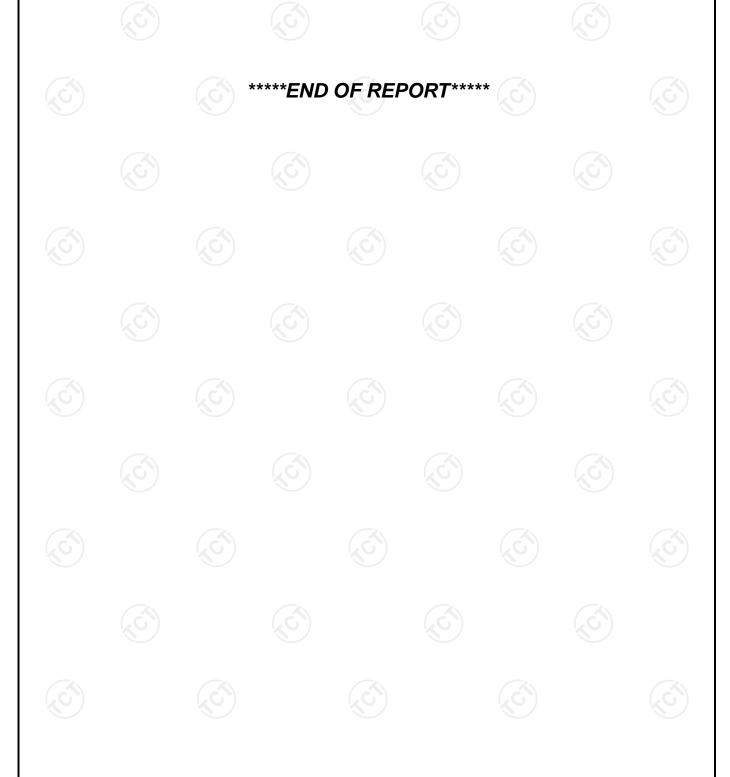


Appendix B: Photographs of Test Setup

Please refer to document Appendix No.: TCT241212E012-A

Appendix C: Photographs of EUT

Please refer to document Appendix No.: TCT241212E012-B & TCT241212E012-C



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