TEST REPORT

Applicant:	Suzhou Jinxun Technology Co., Ltd.
Address of Applicant:	Room 538, 5/F, Bldg 2, Zone 5, CAS Nanotech Industrialization Base, 128 Fangzhou Rd, SIP, Suzhou, Jiangsu, China
Manufacturer:	Yancheng Lanjin Technology Co., Ltd.
Address of Manufacturer:	No. 222 Guanggu Building, Guanhua Road North and Shanghai Road West, Jianhu County, Yancheng, China
Product Name:	MINI PC
Model No.:	S1,S2, S3, S4, S5, S6, S7, X1, X2, X3, X4, X5, X6, X7, Z1, Z2, Z3, Z4, Z5, Z6, Z7, CX1, CX2, CX3, CX4, CX5, CX6, CX7
Trade Mark:	N/A
FCC ID:	2BWT6-S1
Applicable standards:	CFR Title 47 Part 15.247
Date of Test:	Jun.02, 2026-Jun.25, 2026
Date of report issued:	Jul.11, 2026

Remark:

The results shown in this test report refer only to the sample(s) tested , this test report cannot be reproduced, except in full without prior written permission of the company.

The report would be invalid without specific stamp of test institute and the signatures of compiler and approver

Prepared By

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Project Engineer	Project Manager	Authorized Signature

Report Revision History		
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1. Test Summary

Test Item	Section	Result	Test by
Antenna requirement	47CFR Part 15.203 /247(b)(4)	Pass	/
AC Power Line Conducted Emission	47CFR part 15.207	Pass	Jason Huang
Conducted Peak Output Power	47CFR part 15.247 (b)(3)	Pass	Oliver Wang
6dB Bandwidth	47CFR part 15.247 (a)(2)	Pass	Oliver Wang
Power Spectral Density	47CFR part 15.247 (e)	Pass	Oliver Wang
Band Edge	47CFR part 15.247(d) 47CFR part 15.205/15.209	Pass	Oliver Wang
Spurious Emission	47CFR part 15.247(d) 47CFR part 15.205/15.209	Pass	Leo Zhong

Remarks:

1. Pass: The EUT complies with the essential requirements in the standard.

2. Test according to ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 and KDB558074 D01 15.247 Meas Guidance v05r02.

3. Note: Compliance determination rules

1).The Compliance determination of test results does not take into account measurement uncertainty. Measurement results are determined based on regulatory limitations or requirements specified by the applicant/manufacturer. If measurement uncertainty is taken into account, the applicant/manufacturer will bear all possible risks of non-compliance.

2).The measurement uncertainty please refer to each test result in the "Measurement Uncertainty"

Measurement Uncertainty

Test Item	Measurement Uncertainty	Notes
Occupied Channel Bandwidth	0.72%	(1)
RF output power, conducted	±0.67 dB	(1)
Power Spectral Density, conducted	±0.51 dB	(1)
Unwanted Emissions, conducted	±0.64 dB	(1)
AC Power Line Conducted Emission	± 3.38 dB	(1)
Radiated emissions 9K-30MHz	±4.26 dB	(1)
Radiated emissions 30M- 1GHz	±4.88 dB	(1)
Radiated emissions 1GHz-18GHz	± 4.16 dB	(1)
Radiated emissions 18GHz-40GHz	±4.14 dB	(1)
Frequency error	Uc=6X10-7	(1)
Duty Cycle	0.03	(1)
Note (1): The measurement uncertainty is for coverage factor of k=2 and a level of confidence of 95%.		

2. General Information

2.1 General Description of EUT

Product Name:	MINI PC
Model No.:	S1,S2, S3, S4, S5, S6, S7, X1, X2, X3, X4, X5, X6, X7, Z1, Z2, Z3, Z4, Z5, Z6, Z7, CX1, CX2, CX3, CX4, CX5, CX6, CX7
Difference of model(s)	All models have the same electrical design (i.e. circuit design, PCB layout, RF module/circuit, antenna type and position, components on PCB, etc.), mechanical structure and design are the same, only the model name and color are different
Test Model:	S1
Hardware version:	N/A
Software version:	N/A
Power supply:	DC 19V 3.42A From adapter with ac 100-240V 50/60Hz
Adapter information:	N/A
Battery:	N/A
Radio Technology:	2.4G WLAN
Operation Frequency:	2412MHz~2462MHz
Channel Numbers:	802.11b/802.11g /802.11n20: 11 802.11n40:7
Channel separation:	5MHz
Modulation technology:	802.11b: Direct Sequence Spread Spectrum (DSSS) 802.11g/802.11n20/802.11n40: Orthogonal Frequency Division Multiplexing (OFDM)
Antenna Type:	FPC antenna
Antenna gain:	2.93dBi

Note:
1. Other information please Reference user manual.
2. Antenna information is provided by applicant, Testing lab is not responsible for the accuracy of the information.

Operation Frequency each of channel							
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:

Test channel	**Frequency (MHz)**	
	802.11b/802.11g/802.11n20	802.11n40
Lowest channel	2412MHz	2422MHz
Middle channel	2437MHz	2437MHz
Highest channel	2462MHz	2452MHz

2.2 Test mode

Transmitting mode	Keep the EUT in continuously transmitting mode
Remark: the test voltage was tuned from 85% to 115% of the nominal rated supply voltage, and found that the worst case was under the nominal rated supply condition. So the report just shows that condition's data.	

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:

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

Mode	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)
Data rate	1Mbps	6Mbps	6.5Mbps	13Mbps

2.3 Description of Support Units

No.	Description	Manufacturer	Model	Serial Number
1	Monitor	SKYWORTH	2BU1	/
2	MOUSE	DELL	MS116	/
3	KEYBOARD	DELL	KB216T	/
4	Adapter	JHD	JHD-AP066B-190342BA-A	/
6	earphones	HUAWEI	AM115	/

2.4 Test Facility

Test laboratory:	Shenzhen ETR Standard Technology Co., Ltd.
CNAS Registration Number:	L11864
A2LA Certificate Number:	6640.01
FCC Designation Number:	CN1326
FCC Test Firm Registration:	183064
IC Company Number:	28440
IC CAB identifier:	CN0132
Laboratory location:	No.103, No.10, Phase I, Zone 3, Xinxing Industrial Park, Xinhe, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

2.5 Additional Instructions

Test Software	MP Tool.exe
Power level setup	Default

3. Test Instruments list

Item	Equipment name	Manufacturer	Model	Serial No.	Calibration date	Due date
1	EMI Test Receiver	Rohde&schwarz	ESCI7	101214	2026.3.05	2027.3.04
2	EMI Test Receiver	Rohde&schwarz	ESCI3	102696	2026.3.05	2027.3.04
3	Loop Antenna	schwarabeck	FMZB 1519 B	128	2026.3.08	2028.3.07
4	Broadband antenna	schwarabeck	VULB9168	1064	2026.3.11	2028.3.10
5	Horn antenna	schwarabeck	BBHA9120D	2288	2026.3.08	2028.3.07
6	amplifier	EMtrace	RP01A	50117	2026.3.05	2027.3.04
7	AMN	schwarabeck	NSLK8127	8127483	2026.3.05	2027.3.04
8	AMN	ETS	3186/2NM	1132	2026.3.05	2027.3.04
9	10dB attenuator	HUBER+SUHNR	10dB	/	2026.3.05	2027.3.04
10	amplifier	Space-Dtronics	EWLAN0118G-P40	19113001	2026.3.05	2027.3.04
11	Filter	Xingbo	XBLBQ-GTA19	210410-3-1	2026.3.05	2027.3.04
12	Spectrum analyzer	KEYSIGHT	N9020A	MY55370280	2026.3.05	2027.3.04
13	Power control box	MWRFtest	MW100-PSB	MW201020JYT	2026.3.05	2027.3.04
14	Power Sensor	Keysight	U2021XA	MY54111006	2026.3.05	2027.3.04
15	amplifier	SKET	LNPA_1840-50 (18-40GHz)	19113001	2026.3.05	2027.3.04
16	Horn antenna	schwarabeck	BBHA 9170	946	2026.3.08	2028.3.07
17	Temp. & Humidity Chamber	Jiecheng Instrument	QA-LP-80	20160705001	2026/3/06	2027/3/05

Note: the calibration interval of the above test instruments is 12 or 24 months and the calibrations are traceable to international system unit (SI).

Software Name	Manufacturer	Model	Version
RF test software	MWRFtest	MTS 8310	V2.0.0.0
Conducted test software	EZ-EMC	Farad	Ver.EMC-CON 3A1.1
Radiated test software	EZ-EMC	Farad	Ver.FA-03A2 RE

4. Test results and Measurement Data

4.1 Antenna requirement

Standard requirement:	47CFR Part 15.203 /247(b)(4)
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(b) (4) requirement:** If transmitting antennas of directional gain greater than 6dBi are used, the conducted output power limit shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi	
EUT Antenna:	
The antenna is FPC antenna, the best case gain of the antenna is 2.93 dBi, reference to the ET-26052435IP for details.	

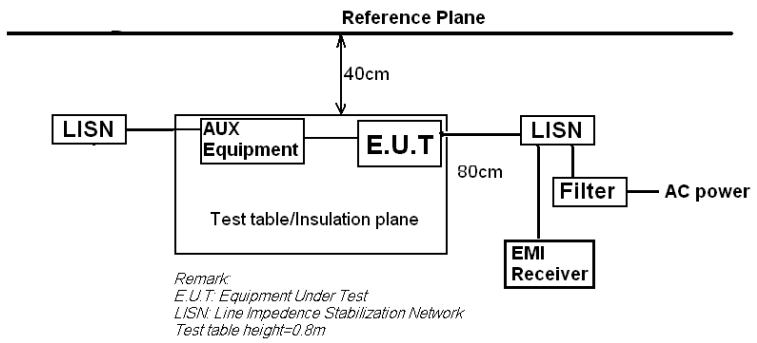
4.2 Conducted Emissions

Test Requirement:	47CFR part 15.207
Test Method:	ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 §6.2
Test Frequency Range:	150KHz to 30MHz
Receiver setup:	RBW=9KHz, VBW=30KHz, Sweep time=auto
Limit:	

Frequency range (MHz)	Limit (dBuV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

* Decreases with the logarithm of the frequency.

Test setup:



Test procedure:

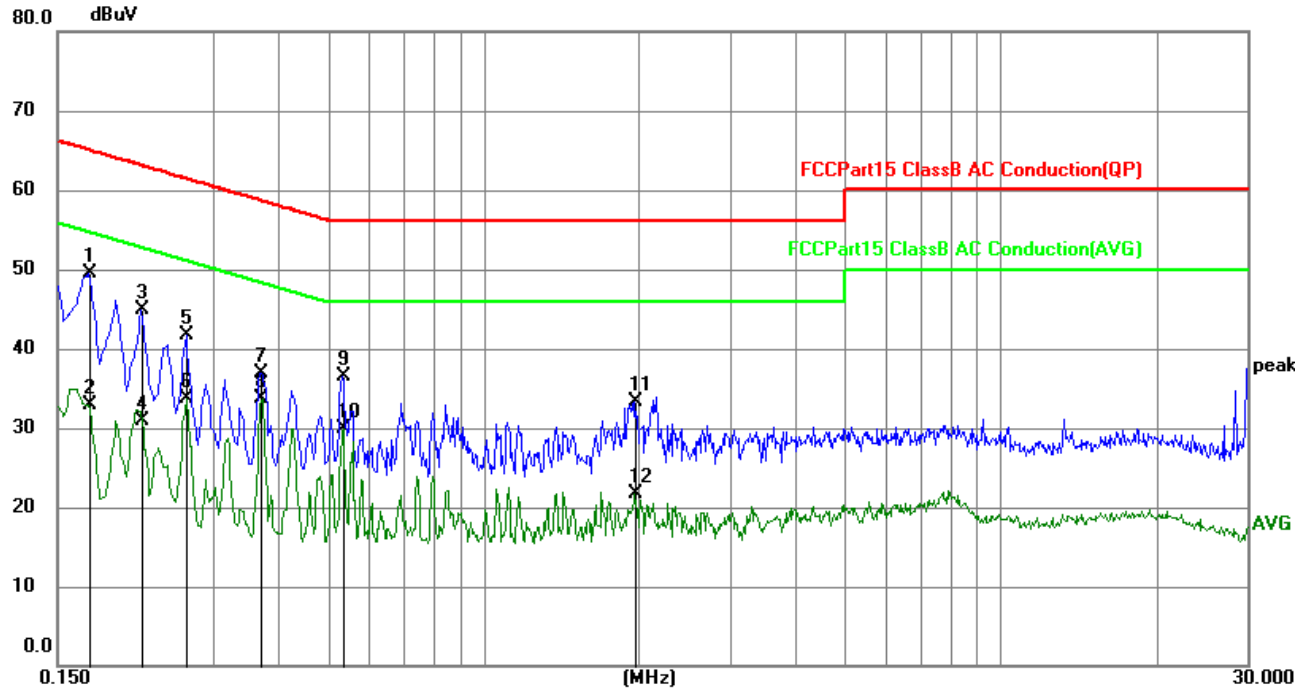
1. The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment.
2. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs).
3. 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 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 on conducted measurement.

Test Instruments:	Refer to section 3.0 for details					
Test mode:	Refer to section 2.2 for details					
Test environment:	Temp.:	27.4°C	Humid.:	50%	Press.:	1012mbar
Test voltage:	AC 120V 60Hz					
Test results:	Pass					

Remark:
1. Both high voltage and low voltage have been tested, and the report only shows the worst case data with AC 120V/60Hz.
2. All mode have been tested, the report only shows the worst mode of 802.11g (2437MHz)

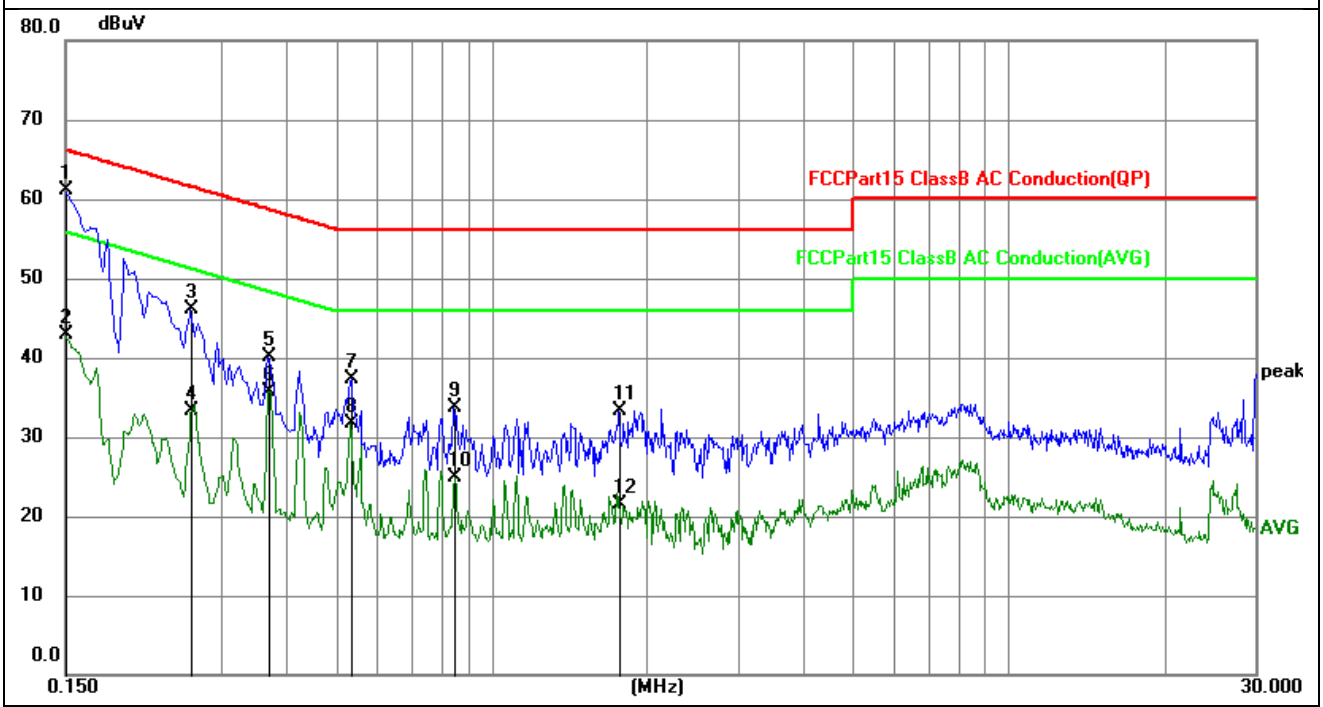
Measurement Result

Line:



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1725	39.54	9.97	49.51	64.84	-15.33	QP
2	0.1725	22.98	9.97	32.95	54.84	-21.89	AVG
3	0.2175	34.85	9.98	44.83	62.91	-18.08	QP
4	0.2175	21.00	9.98	30.98	52.91	-21.93	AVG
5	0.2670	31.74	9.99	41.73	61.21	-19.48	QP
6	0.2670	23.81	9.99	33.80	51.21	-17.41	AVG
7	0.3704	26.88	10.04	36.92	58.49	-21.57	QP
8	0.3704	23.67	10.04	33.71	48.49	-14.78	AVG
9	0.5325	26.44	10.08	36.52	56.00	-19.48	QP
10	0.5325	19.86	10.08	29.94	46.00	-16.06	AVG
11	1.9635	23.30	10.00	33.30	56.00	-22.70	QP
12	1.9635	11.73	10.00	21.73	46.00	-24.27	AVG

Neutral:

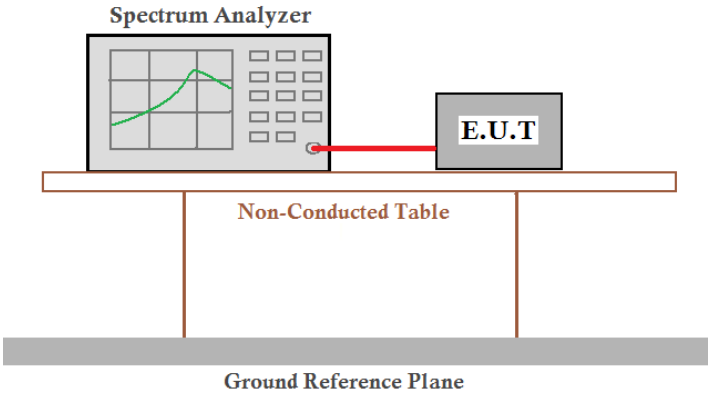


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1500	51.18	9.97	61.15	66.00	-4.85	QP
2	0.1500	33.02	9.97	42.99	56.00	-13.01	AVG
3	0.2625	36.16	9.99	46.15	61.35	-15.20	QP
4	0.2625	23.30	9.99	33.29	51.35	-18.06	AVG
5	0.3704	29.97	10.04	40.01	58.49	-18.48	QP
6	0.3704	25.76	10.04	35.80	48.49	-12.69	AVG
7	0.5370	27.25	10.08	37.33	56.00	-18.67	QP
8	0.5370	21.68	10.08	31.76	46.00	-14.24	AVG
9	0.8475	23.64	10.09	33.73	56.00	-22.27	QP
10	0.8475	14.87	10.09	24.96	46.00	-21.04	AVG
11	1.7655	23.34	10.02	33.36	56.00	-22.64	QP
12	1.7655	11.56	10.02	21.58	46.00	-24.42	AVG

Notes:

1. An initial pre-scan was performed on the line and neutral lines with peak detector.
2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
3. Final Level =Receiver Read level + LISN Factor + Cable Loss
4. *If the average limit is met when using a quasi-peak detector receiver, the EUT shall be deemed to meet both limits and measurement with the average detector receiver is unnecessary.*

4.3 Duty cycle

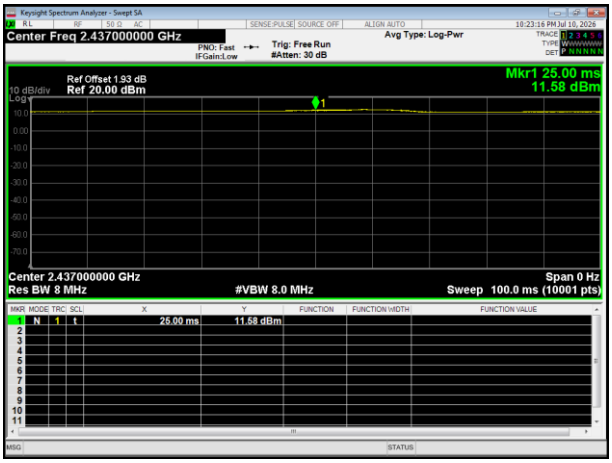
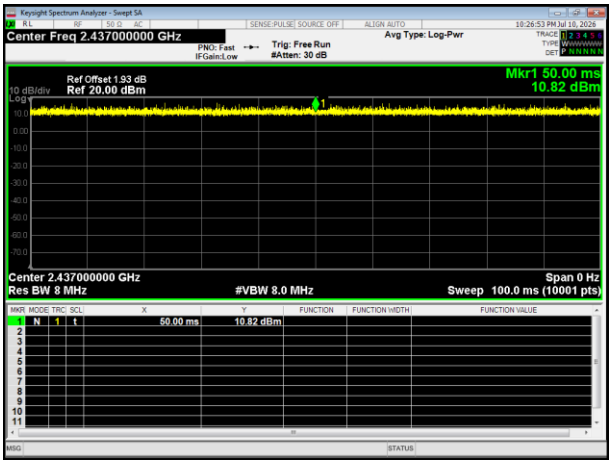
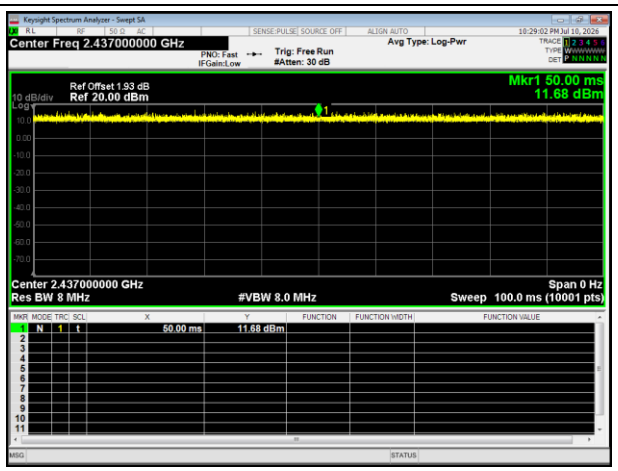
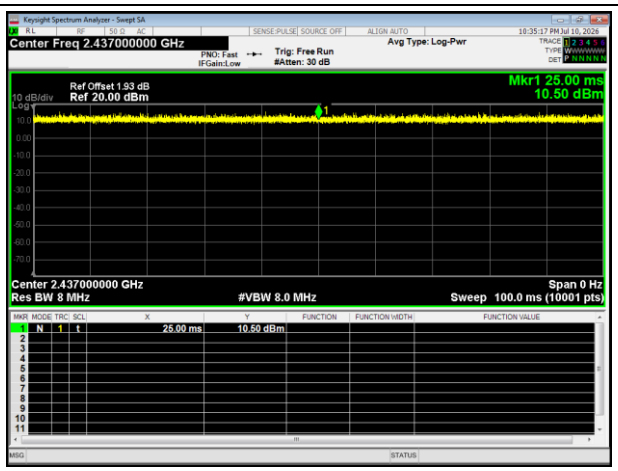
Test Method :	ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024§11.6	
Limit:	/	
Test setup:		
Test Instruments:	Refer to section 3.0 for details	
Test mode:	Refer to section 2.2 for details	
Test environment:	Temp.: 27.4°C	Humid.: 50%RH
Test voltage:	AC 120V 60HZ	
Test results:	Pass	

Measurement Result

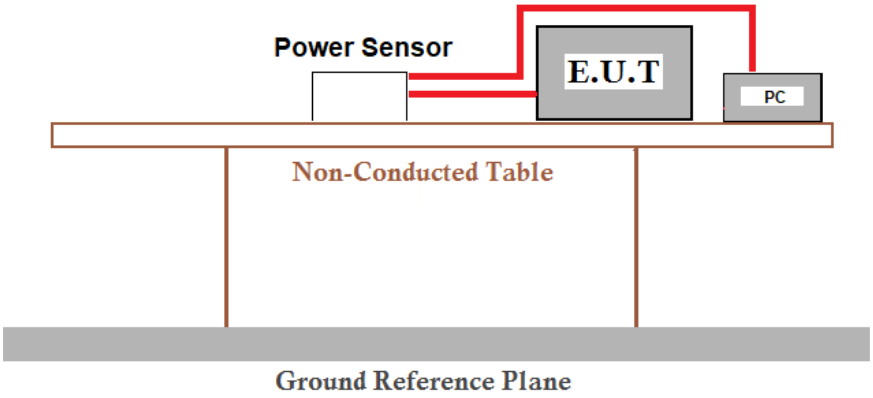
Mode	Duty cycle (%)	Correction Factor (dB)
802.11b	100	0
802.11g	100	0
802.11n(HT20)	100	0
802.11n(HT40)	100	0

*Note: Duty cycle factor (dB) =10 * log (1/ Duty cycle)*

Test plot as follows:

802.11b	802.11g
	
802.11n20	802.11n40
	

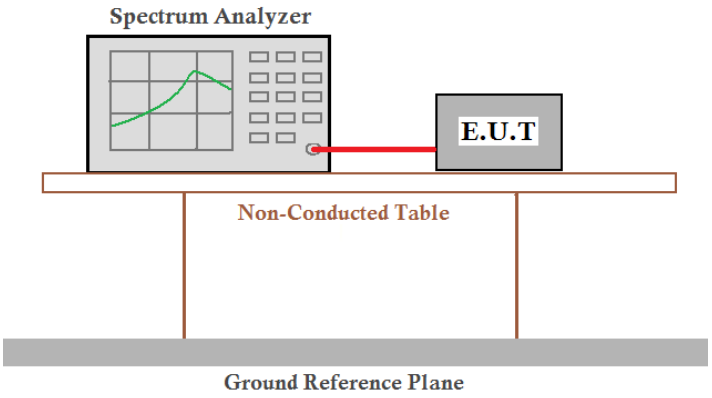
4.4 Peak Conducted Output Power

Test Requirement :	FCC Part15 C Section 15.247 (b)(3)	
Test Method :	ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 § 11.9.1.2 KDB558074 D01 15.247 Meas Guidance v05r02	
Limit:	30dBm for peak conducted output power	
Test setup:		
Test Instruments:	Refer to section 3.0 for details	
Test mode:	Refer to section 2.2 for details	
Test environment:	Temp.: 27.4°C	Humid.: 50%RH
Test voltage:	AC 120V 60HZ	
Test results:	Pass	

Measurement Result

Test CH	Peak Output Power (dBm)				Limit(dBm)	Result
	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)		
Lowest	14.10	14.75	14.23	13.78	30.00	Pass
Middle	14.16	14.82	14.12	13.70		
Highest	13.97	14.80	14.02	14.13		

4.5 6dB Bandwidth

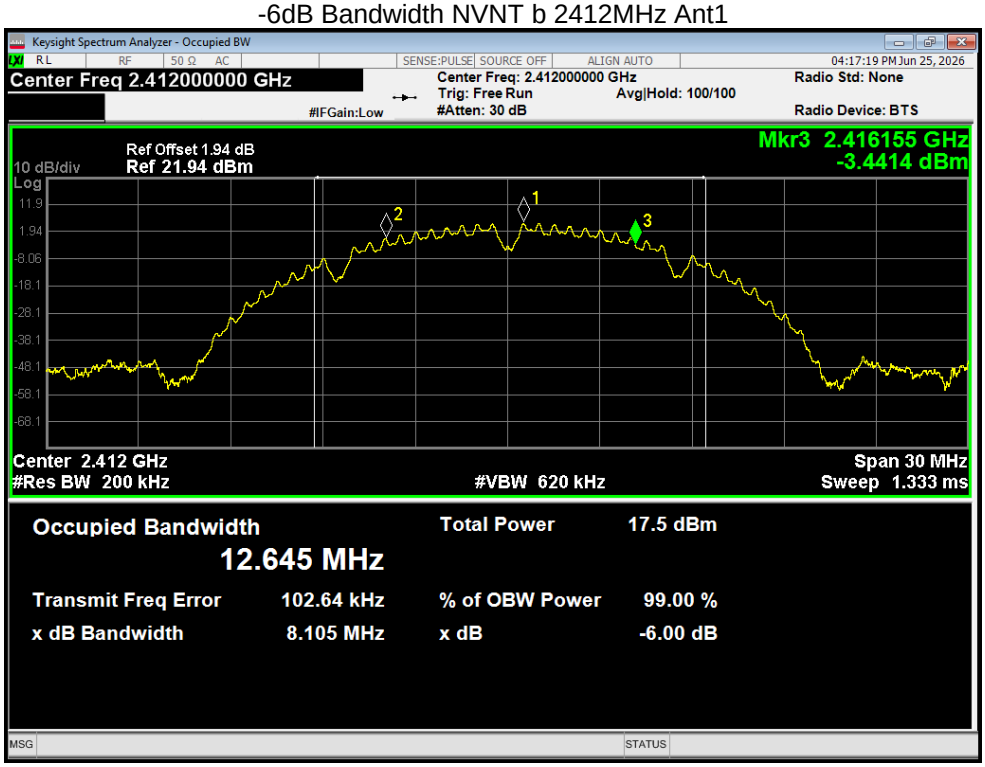
Test Requirement :	47CFR Part 15.247 (a)(2)	
Test Method :	ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024§11.8.2	
Limit:	>500KHz	
Test setup:		
Test Instruments:	Refer to section 3.0 for details	
Test mode:	Refer to section 2.2 for details	
Test environment:	Temp.: 27.4°C	Humid.: 50%RH
Test voltage:	AC 120V 60HZ	
Test results:	Pass	

Measurement Result

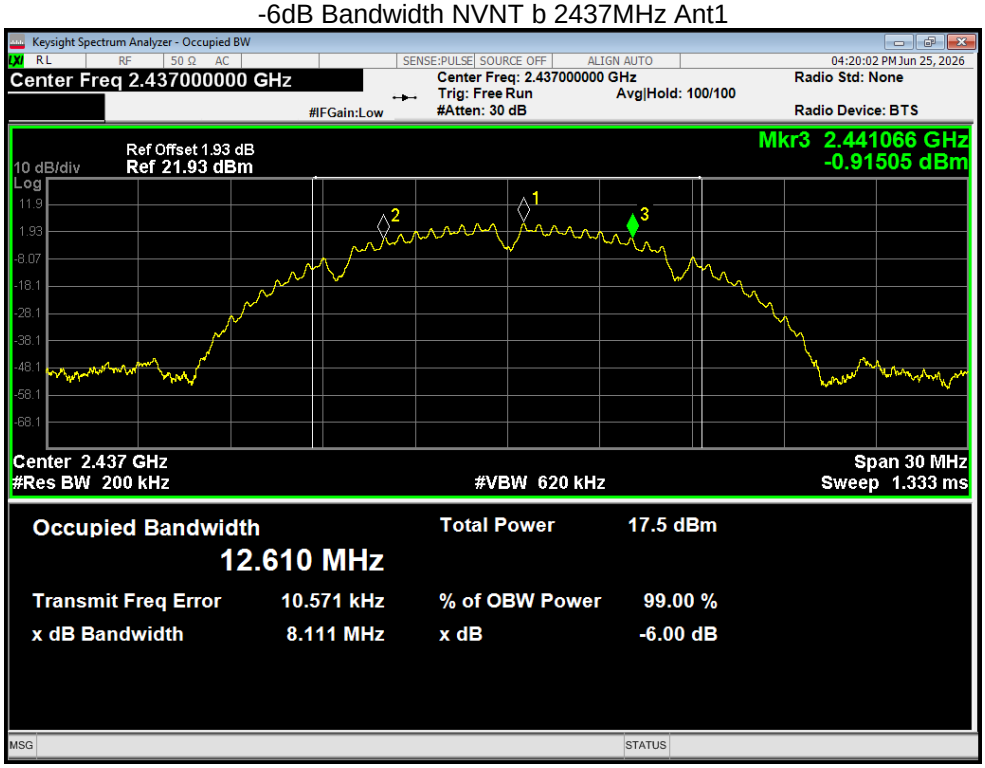
Test CH	6dB Bandwidth (MHz)				Limit(KHz)	Result
	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)		
Lowest	8.105	15.87	16.85	35.19	>500	Pass
Middle	8.111	16.11	17.16	32.66		
Highest	8.114	15.93	16.82	35.57		

-6 Bandwidth dB Test plot as follows

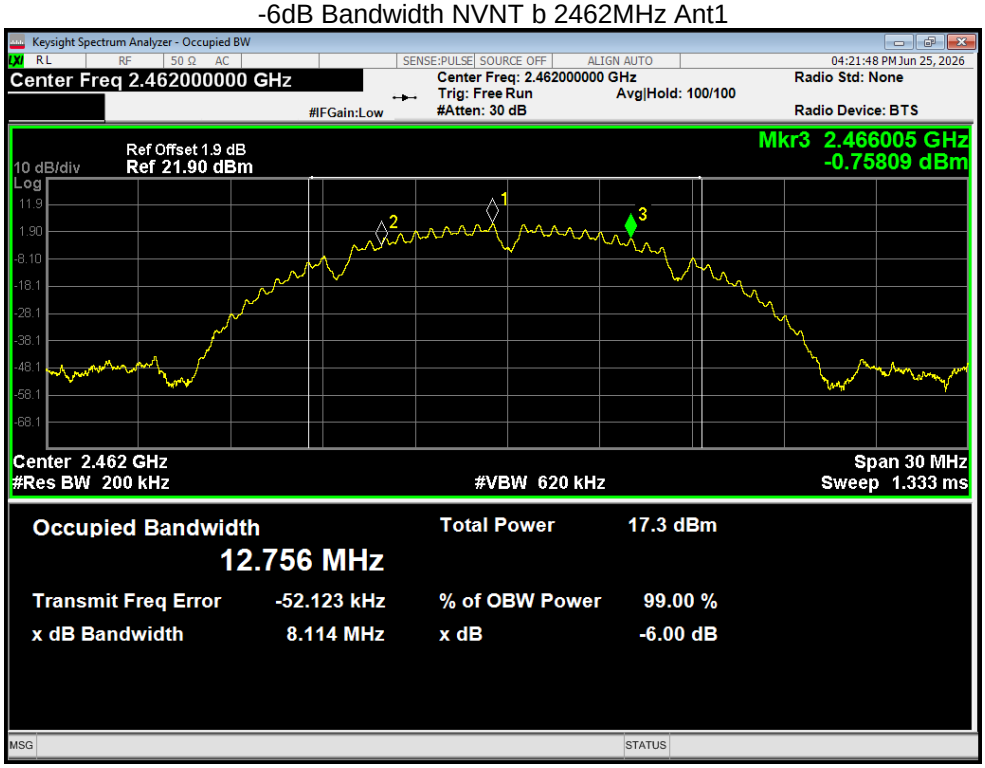
-6dB Bandwidth NVNT b 2412MHz Ant1



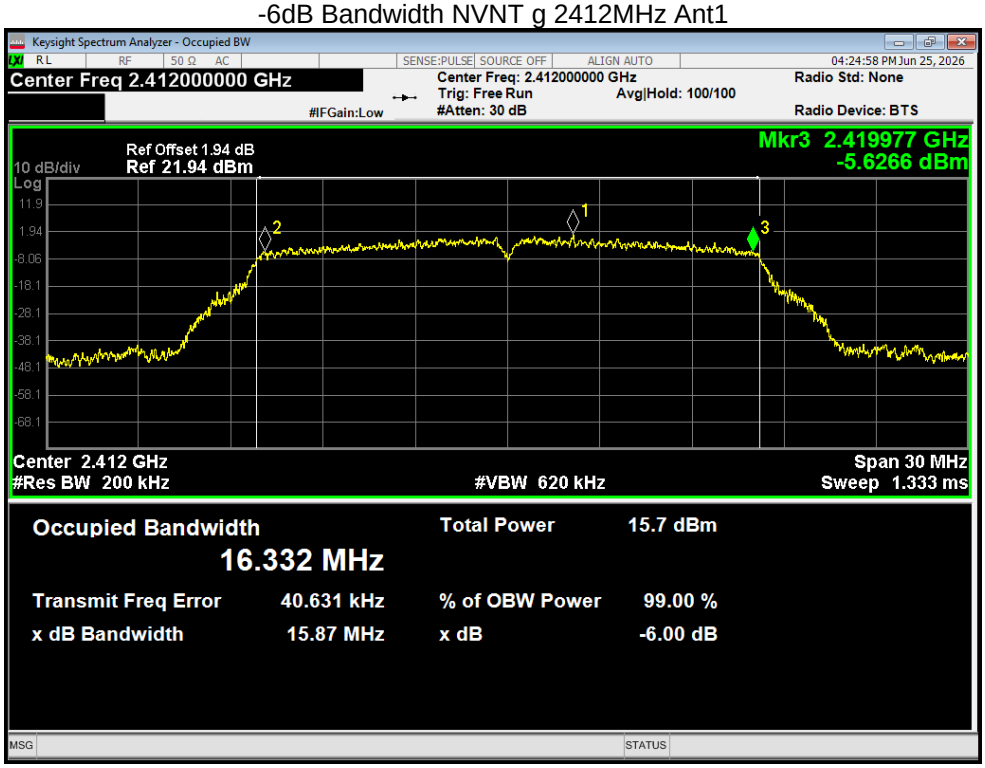
-6dB Bandwidth NVNT b 2437MHz Ant1



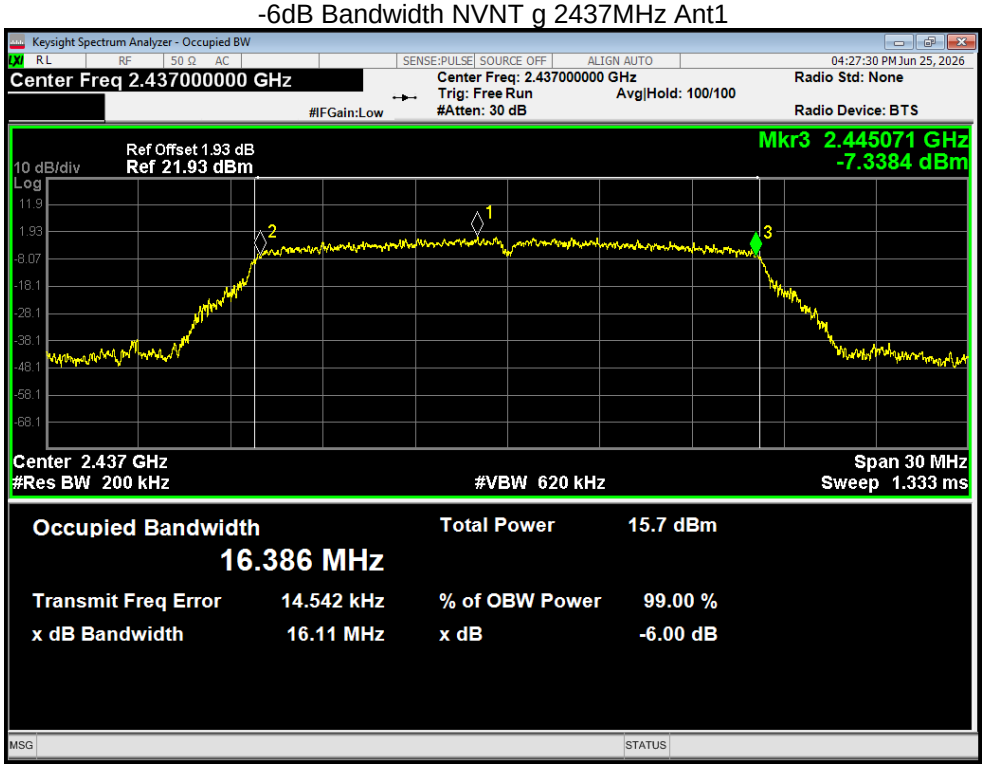
-6dB Bandwidth NVNT b 2462MHz Ant1



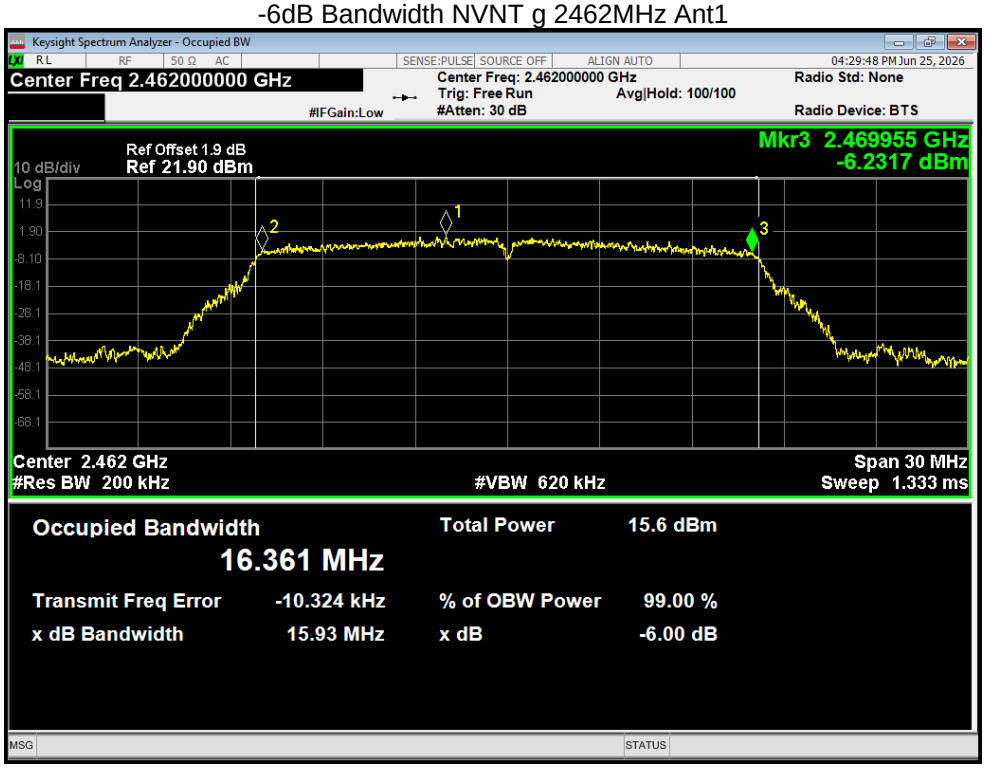
-6dB Bandwidth NVNT g 2412MHz Ant1



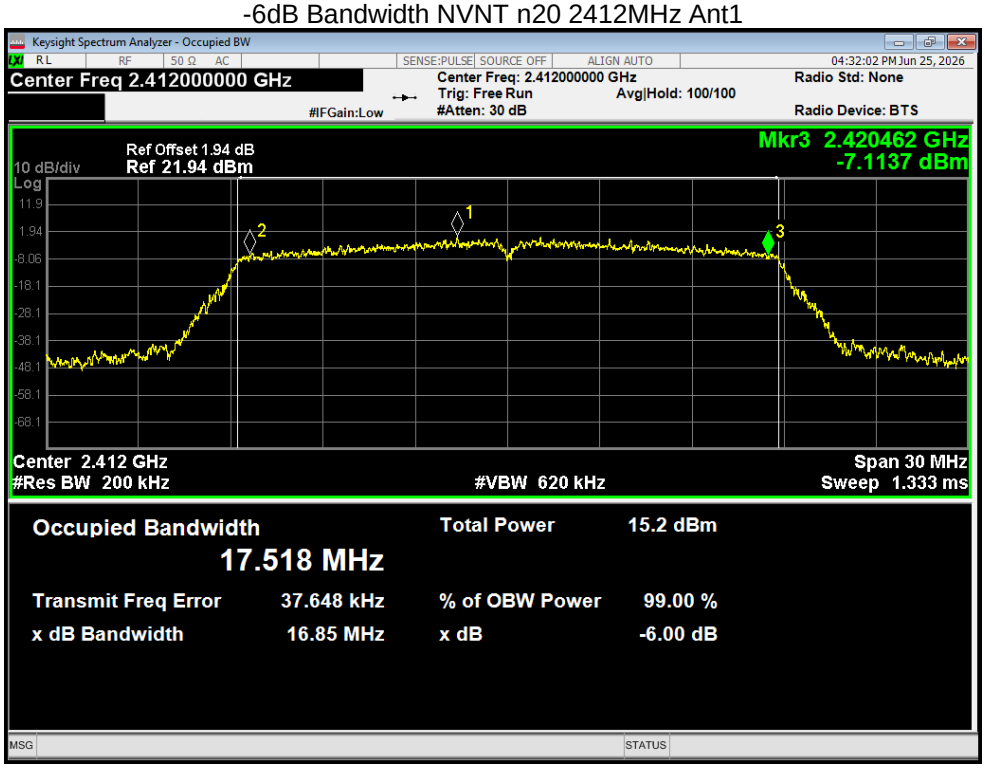
-6dB Bandwidth NVNT g 2437MHz Ant1



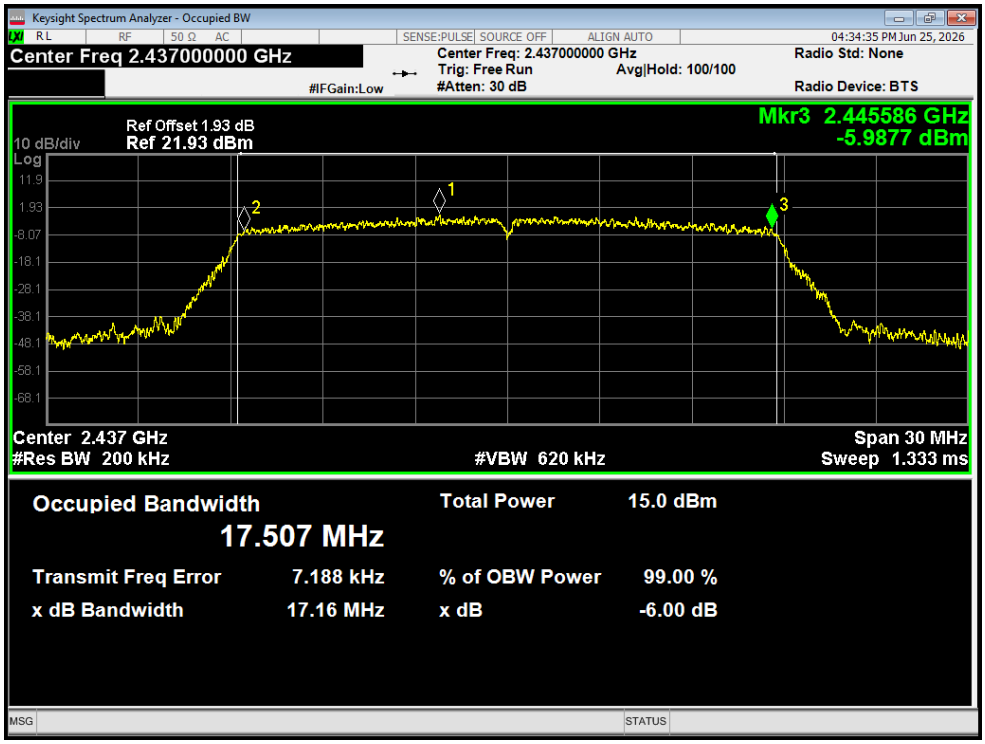
-6dB Bandwidth NVNT g 2462MHz Ant1



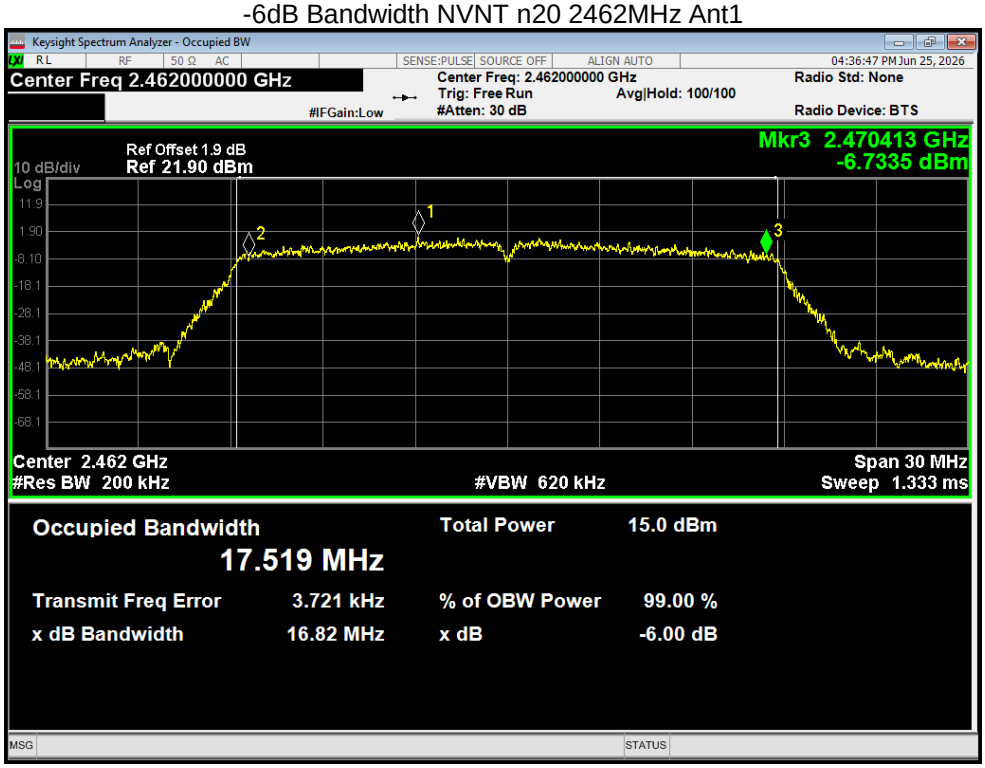
-6dB Bandwidth NVNT n20 2412MHz Ant1



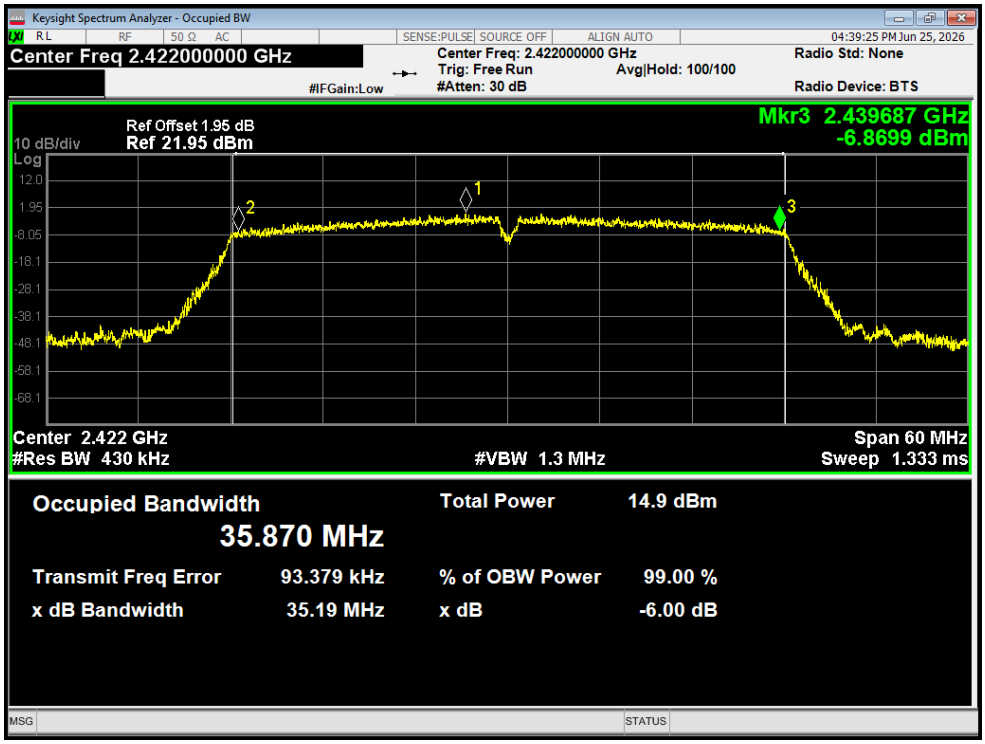
-6dB Bandwidth NVNT n20 2437MHz Ant1



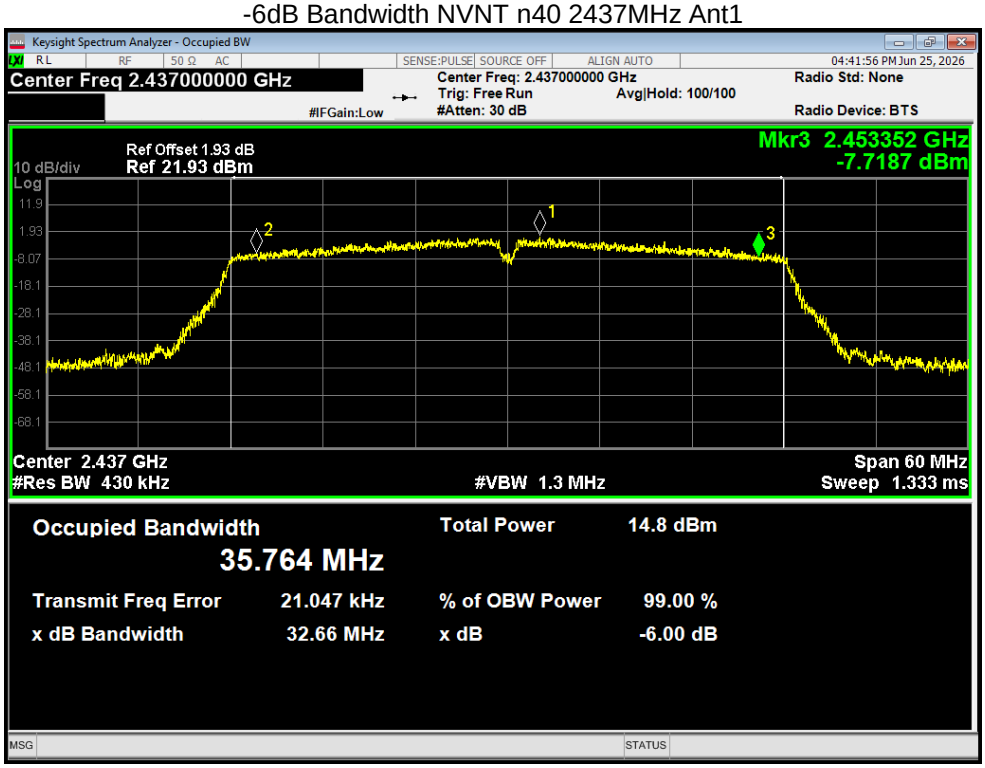
-6dB Bandwidth NVNT n20 2462MHz Ant1



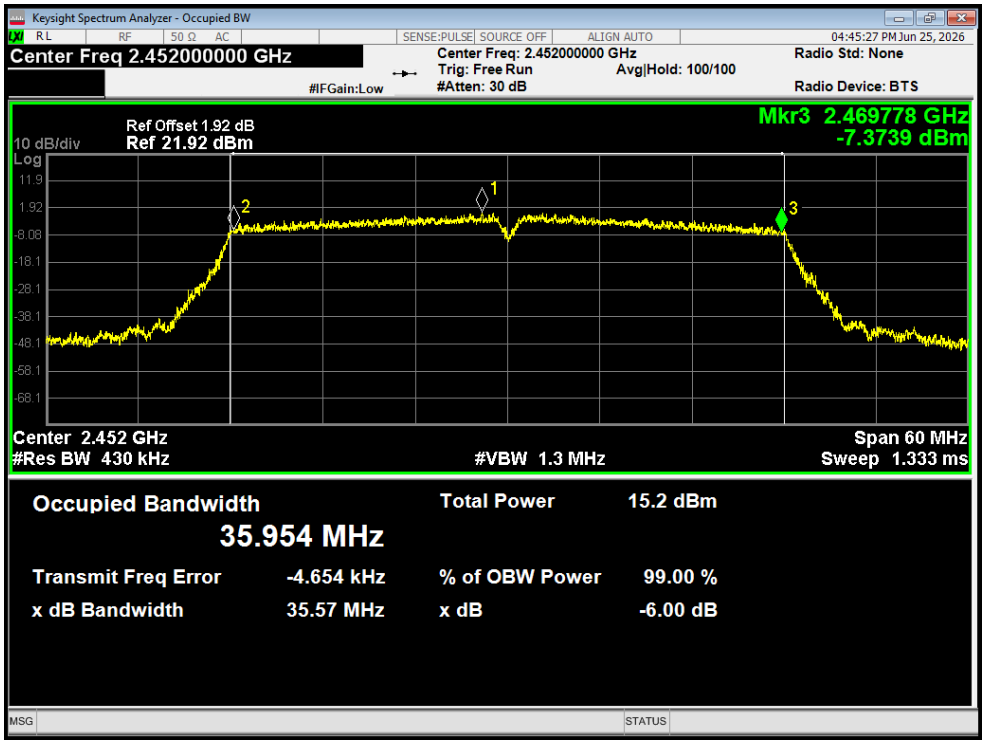
-6dB Bandwidth NVNT n40 2422MHz Ant1



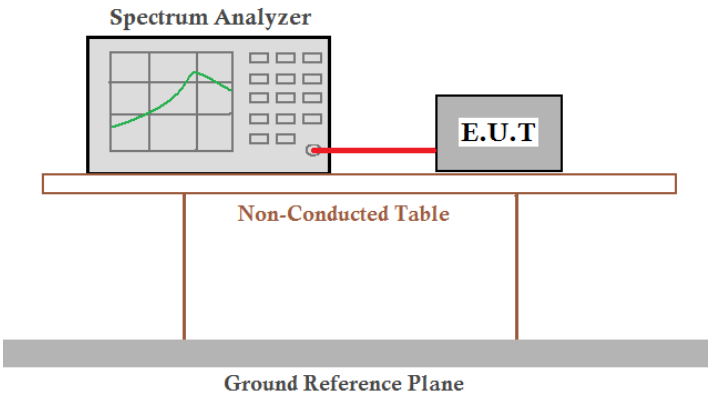
-6dB Bandwidth NVNT n40 2437MHz Ant1



-6dB Bandwidth NVNT n40 2452MHz Ant1



4.6 Power Spectral Density

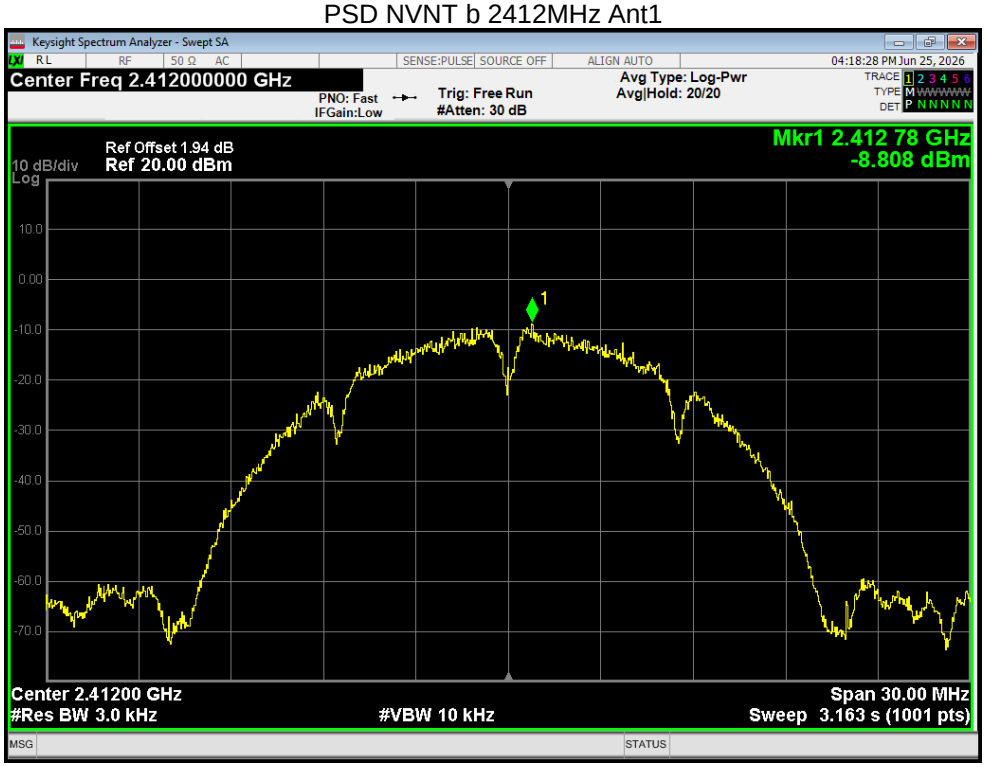
Test Requirement:	47CFR Part 15.247 (e)	
Test Method:	ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 § 11.10.2 KDB558074 D01 15.247 Meas Guidance v05r02	
Limit:	8dBm/3kHz	
Test setup:		
Test Instruments:	Refer to section 3.0 for details	
Test mode:	Refer to section 2.2 for details	
Test environment:	Temp.: 27.4°C	Humid.: 50%RH
Test voltage:	AC 120V 60HZ	
Test results:	Pass	

Measurement Result

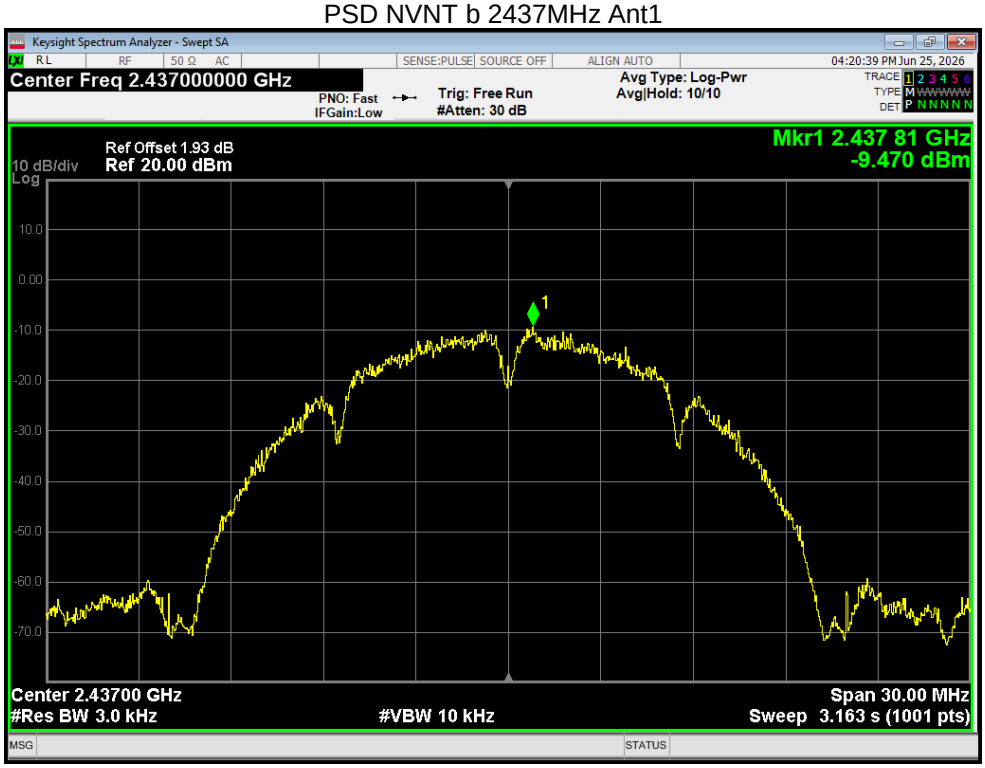
Test CH	Power Spectral Density (dBm/3kHz)				Limit (dBm/3kHz)	Result
	802.11b	802.11g	802.11n20	802.11n40		
Lowest	-8.808	-13.954	-14.045	-17.066	8.00	Pass
Middle	-9.47	-13.707	-15.13	-17.527		
Highest	-9.959	-13.58	-14.697	-15.937		

Test plot as follows:

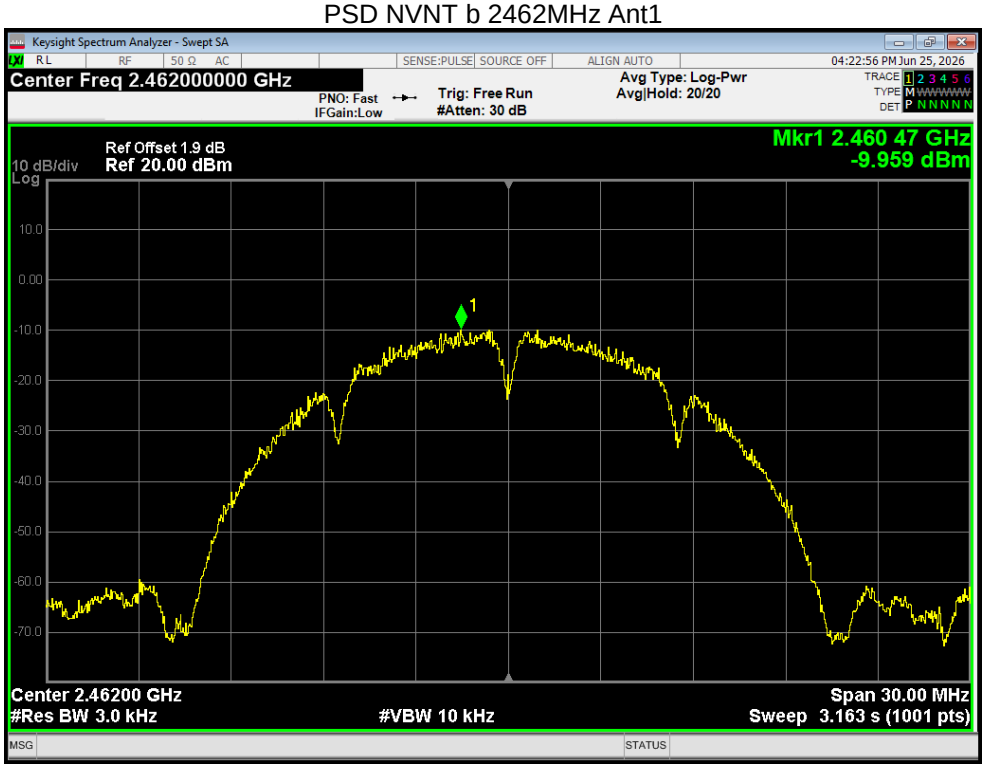
PSD NVNT b 2412MHz Ant1



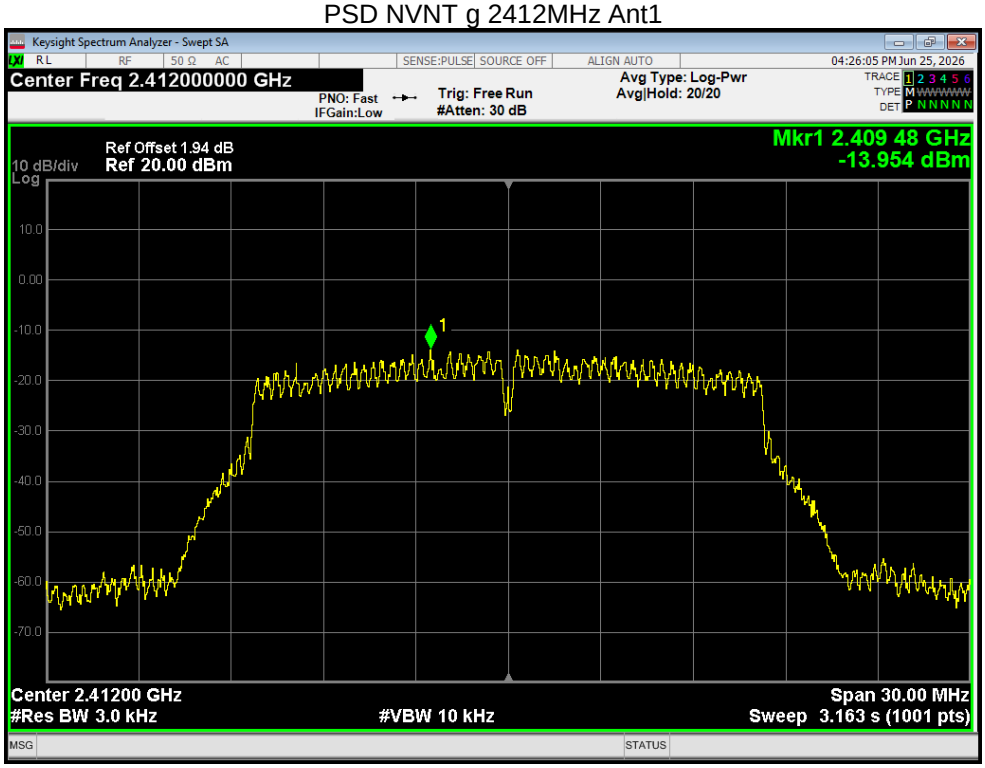
PSD NVNT b 2437MHz Ant1



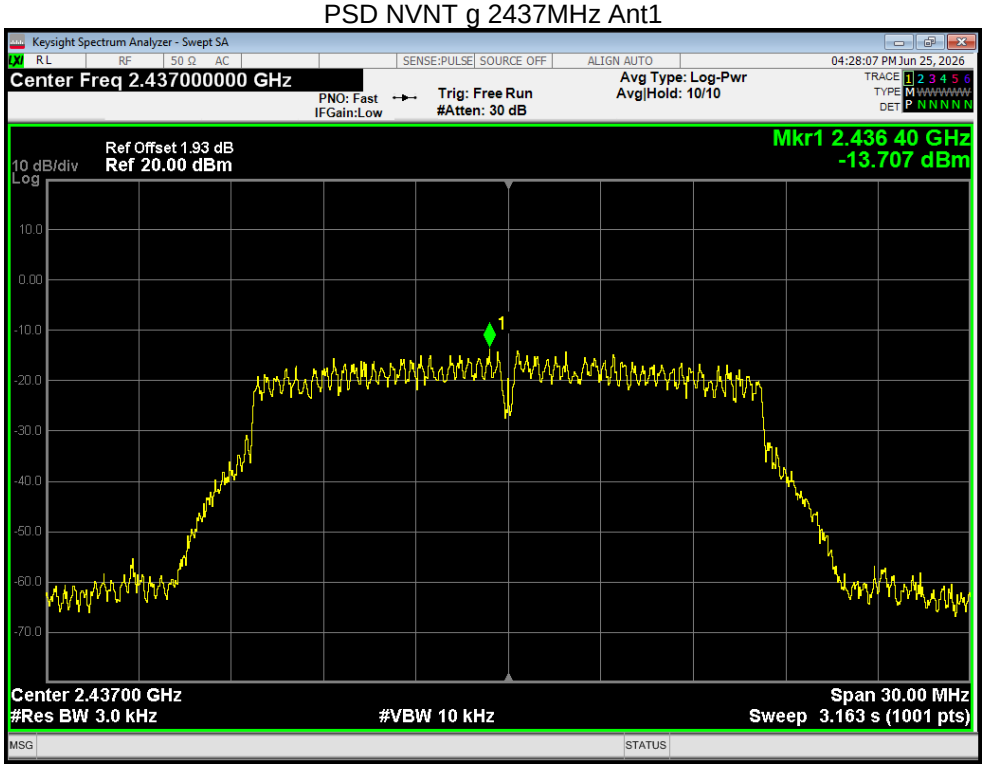
PSD NVNT b 2462MHz Ant1



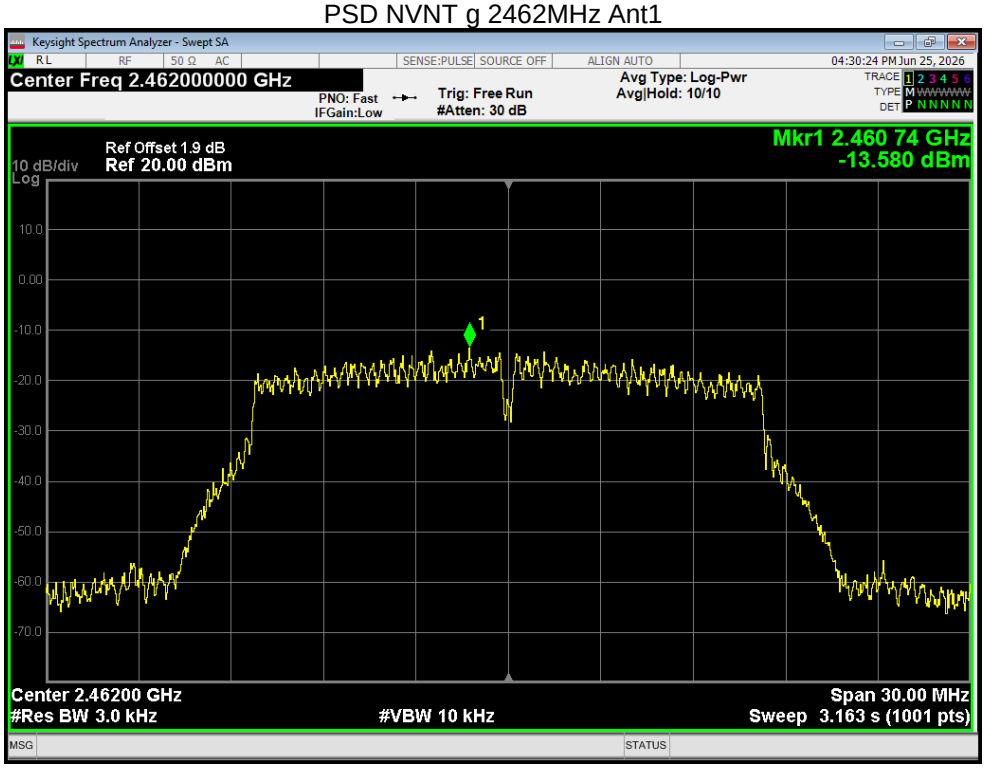
PSD NVNT g 2412MHz Ant1



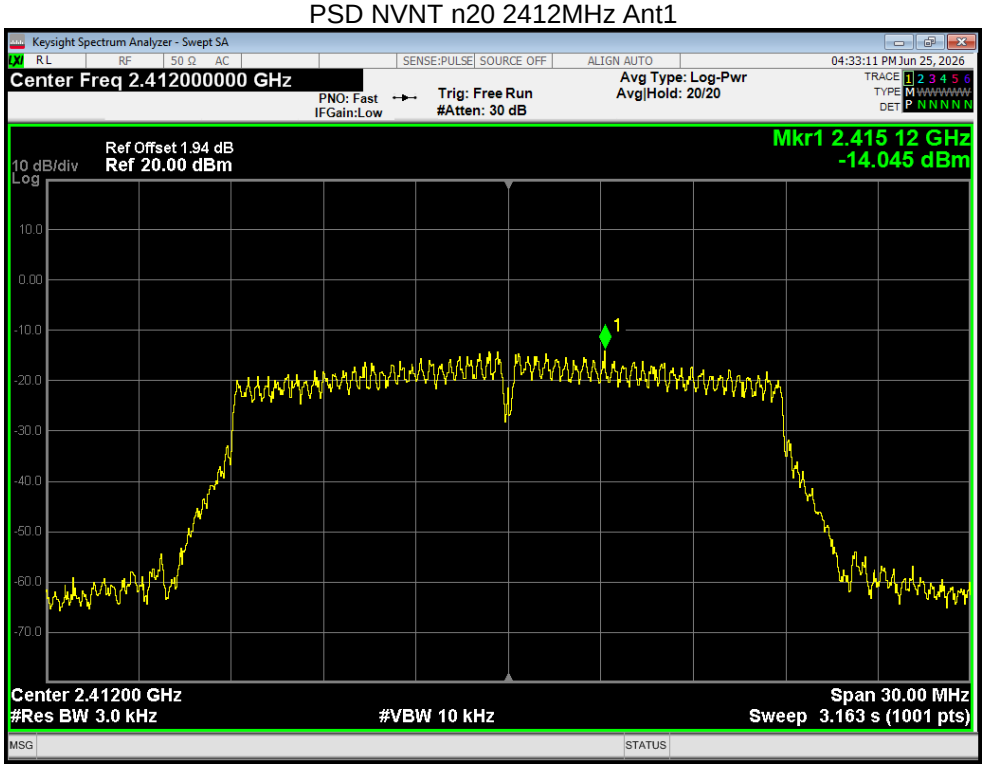
PSD NVNT g 2437MHz Ant1



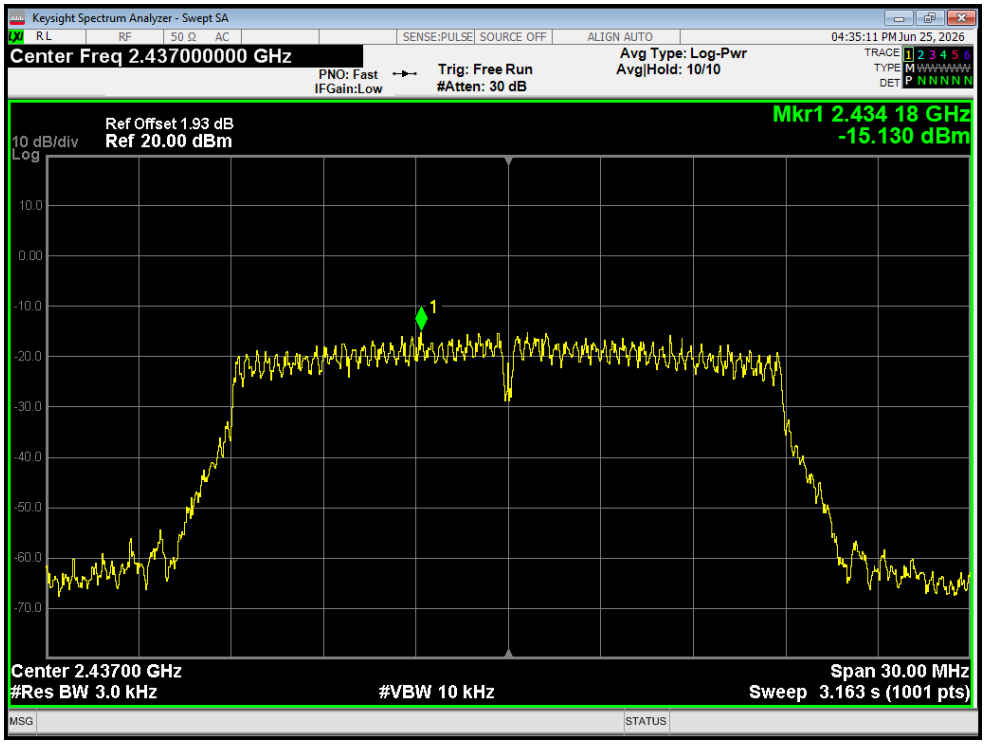
PSD NVNT g 2462MHz Ant1



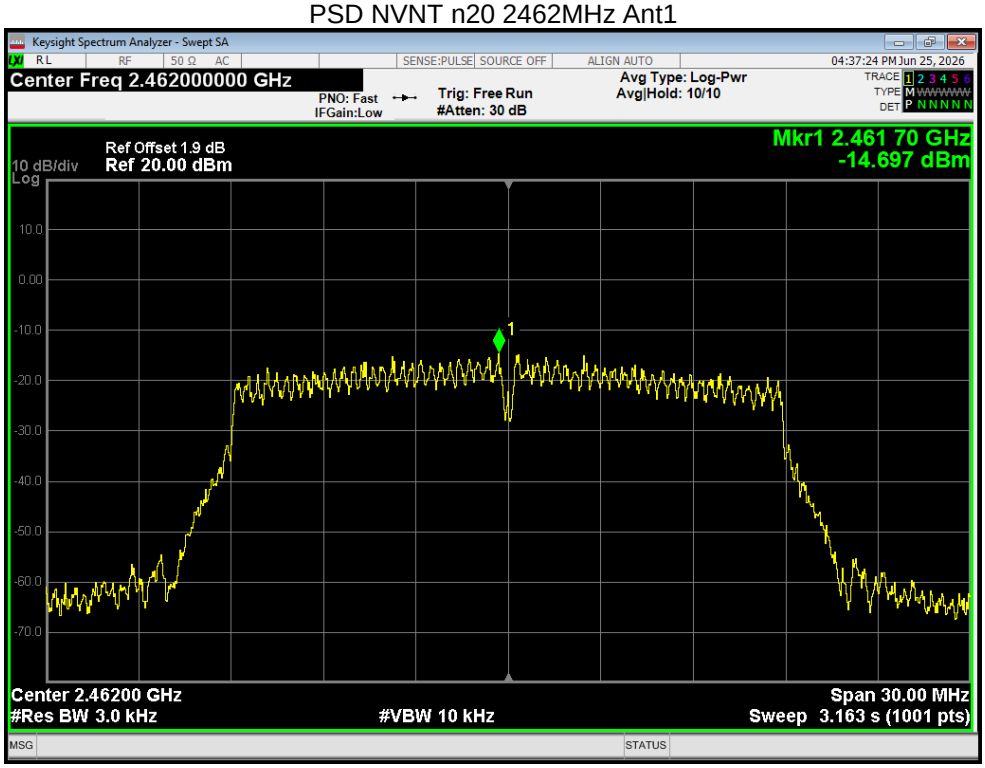
PSD NVNT n20 2412MHz Ant1



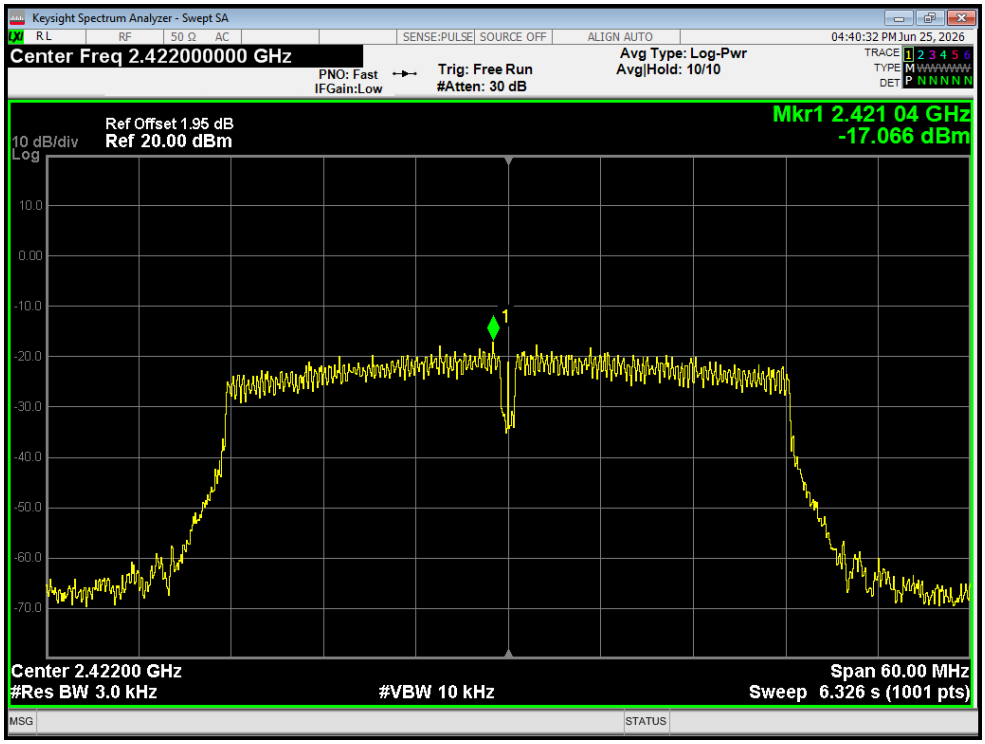
PSD NVNT n20 2437MHz Ant1



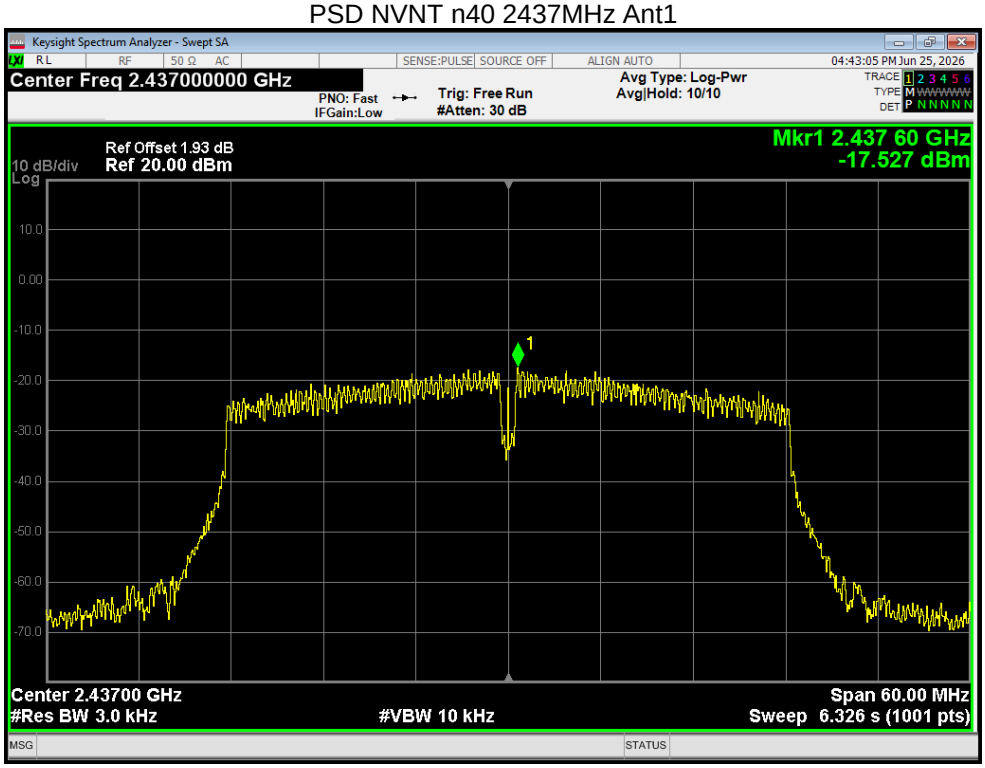
PSD NVNT n20 2462MHz Ant1



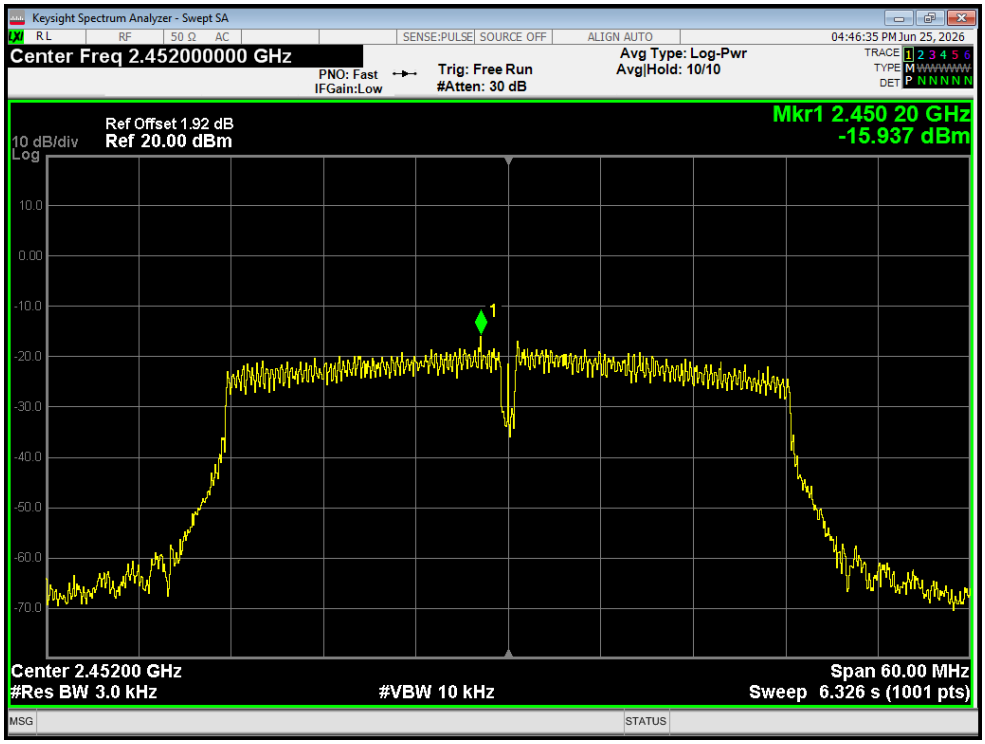
PSD NVNT n40 2422MHz Ant1



PSD NVNT n40 2437MHz Ant1

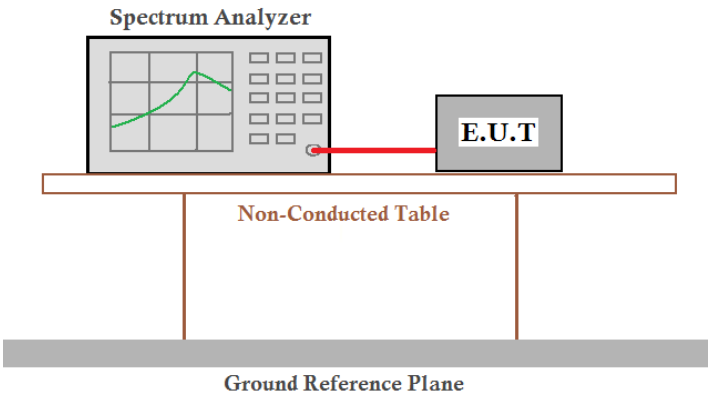


PSD NVNT n40 2452MHz Ant1



4.7 Band edges

Conducted Emission Method

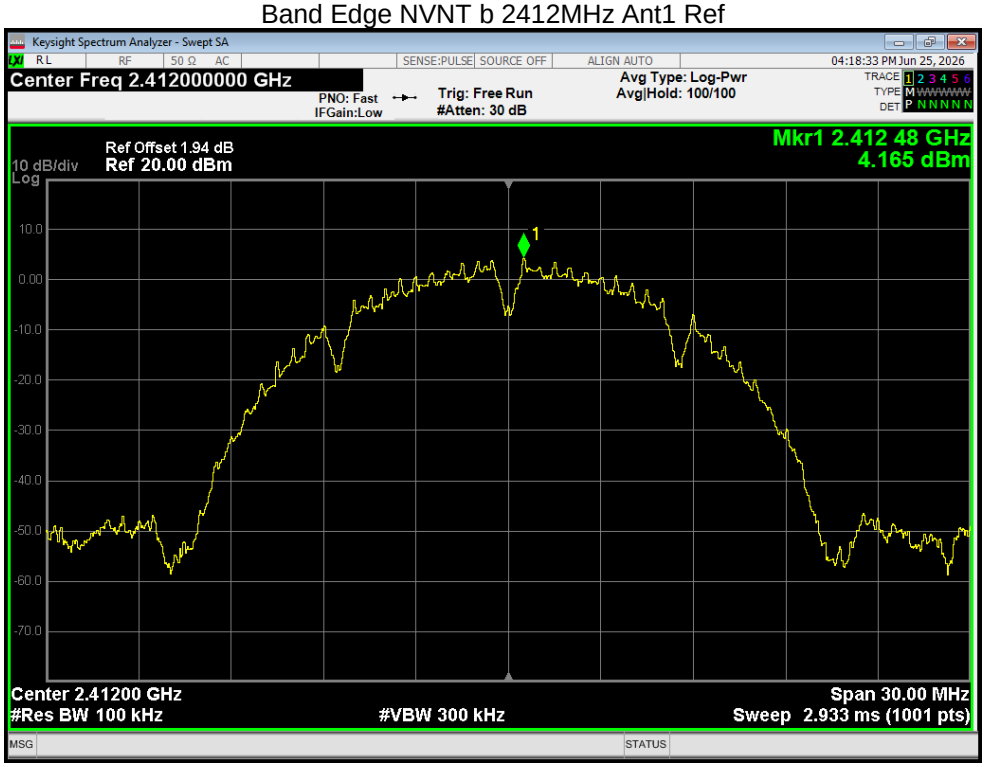
Test Requirement:	47CFR Part 15.247 (d)	
Test Method:	ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 § 6.10.2	
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.	
Test setup:		
Test Instruments:	Refer to section 3.0 for details	
Test mode:	Refer to section 2.2 for details	
Test environment:	Temp.: 27.4°C	Humid.: 50%RH
Test voltage:	AC 120V 60HZ	
Test results:	Pass	

Band Edge

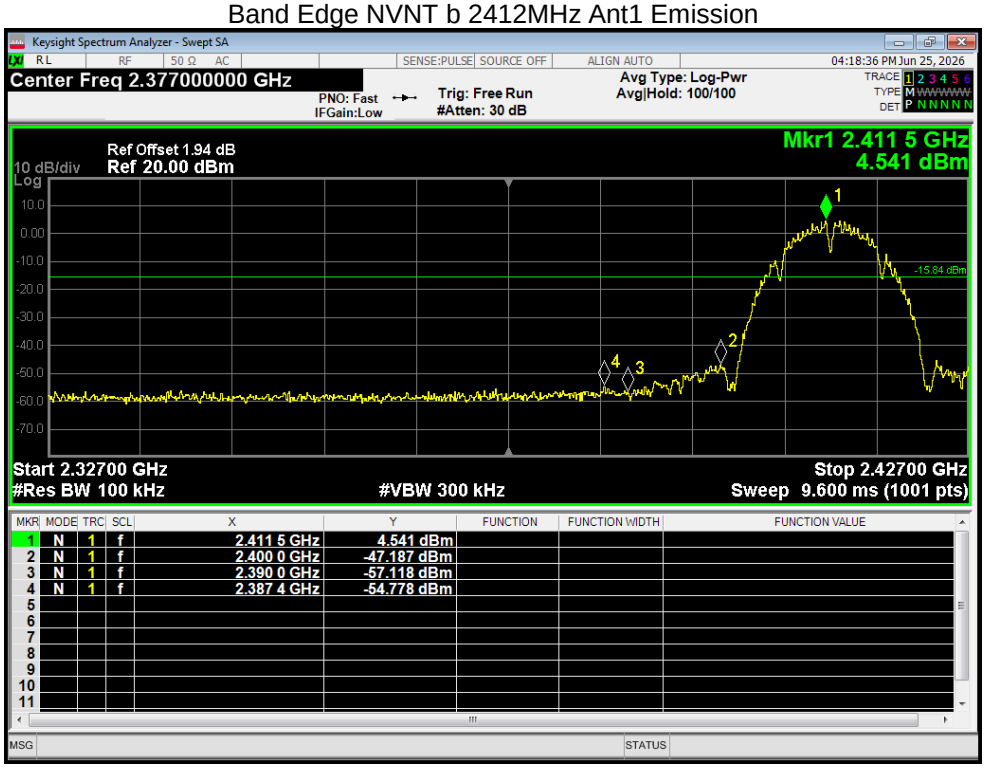
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-58.94	-20	Pass
NVNT	b	2462	Ant1	-59.34	-20	Pass
NVNT	g	2412	Ant1	-48.96	-20	Pass
NVNT	g	2462	Ant1	-50.2	-20	Pass
NVNT	n20	2412	Ant1	-49.5	-20	Pass
NVNT	n20	2462	Ant1	-51.14	-20	Pass
NVNT	n40	2422	Ant1	-44.23	-20	Pass
NVNT	n40	2452	Ant1	-46.88	-20	Pass

Test plot as follows:

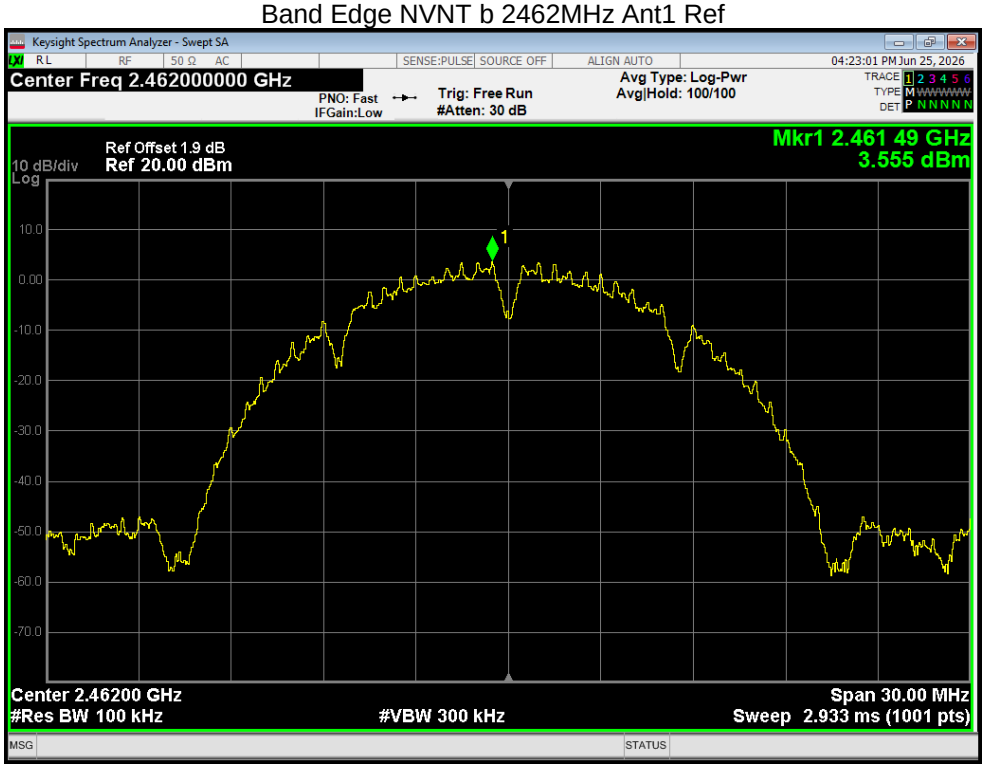
Band Edge NVNT b 2412MHz Ant1 Ref



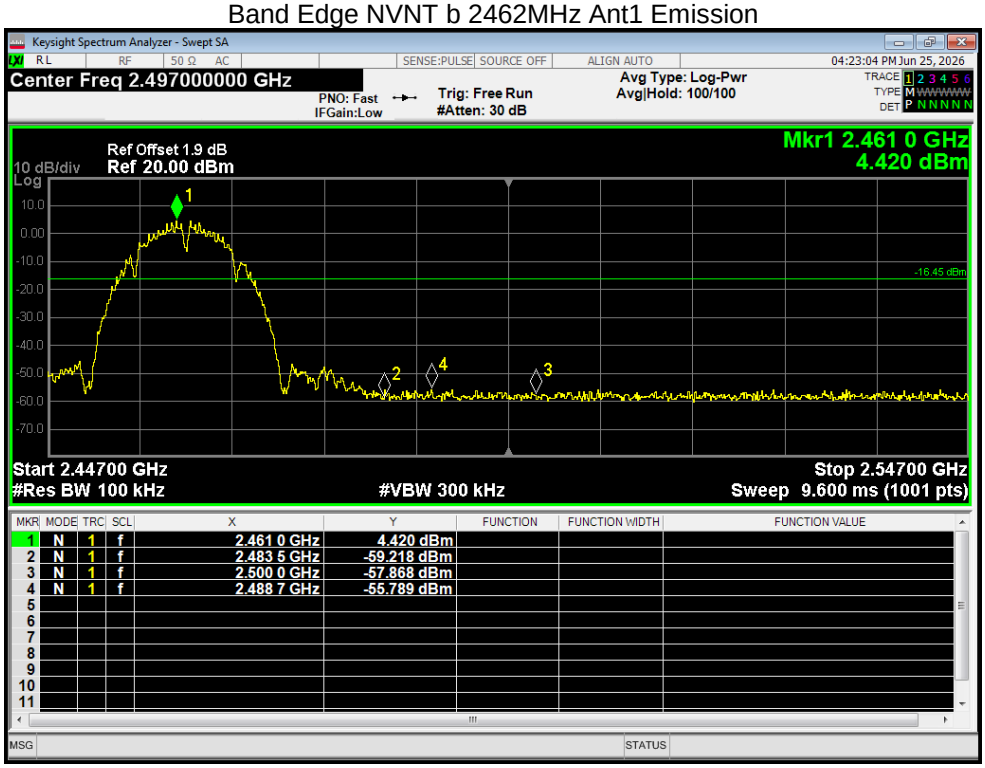
Band Edge NVNT b 2412MHz Ant1 Emission



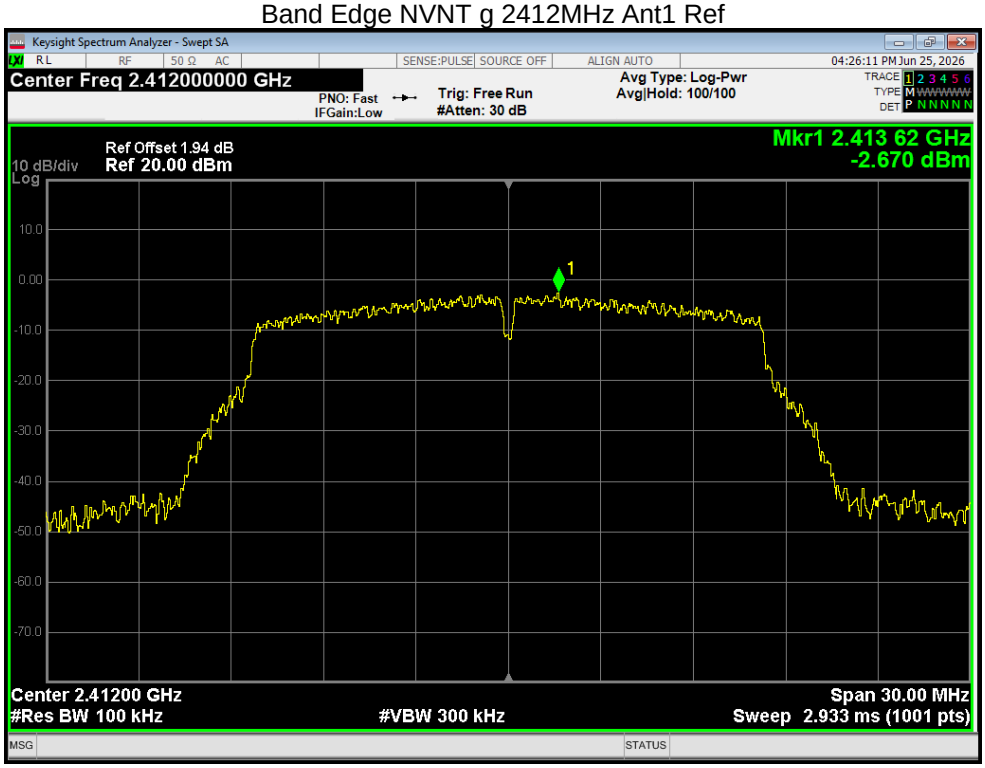
Band Edge NVNT b 2462MHz Ant1 Ref



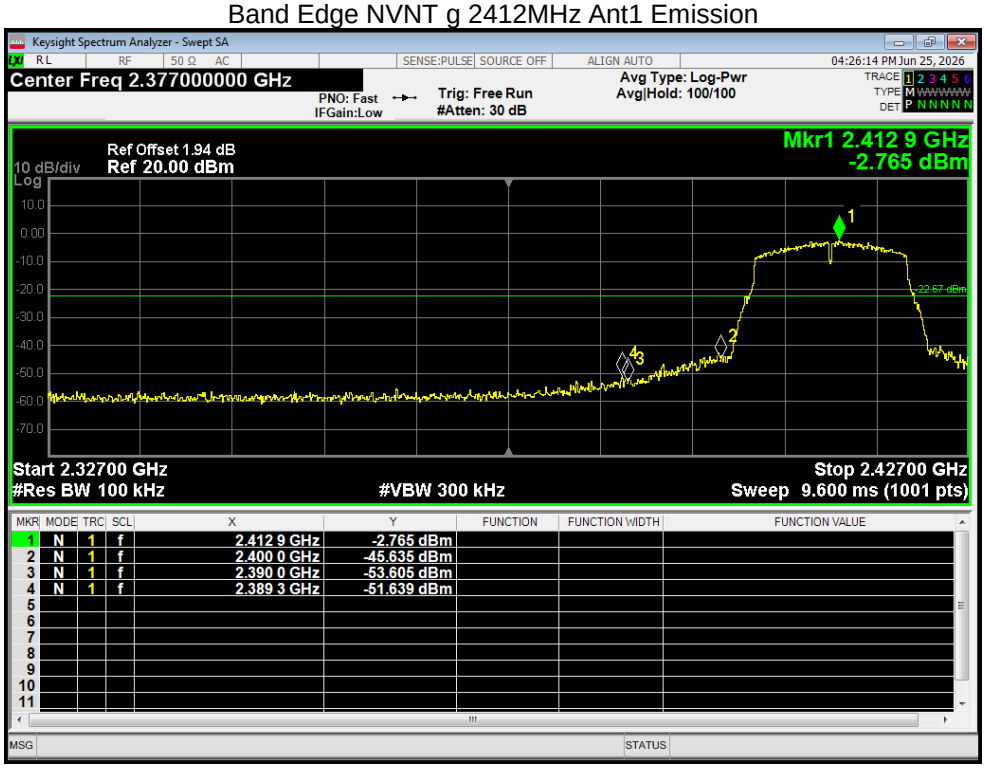
Band Edge NVNT b 2462MHz Ant1 Emission



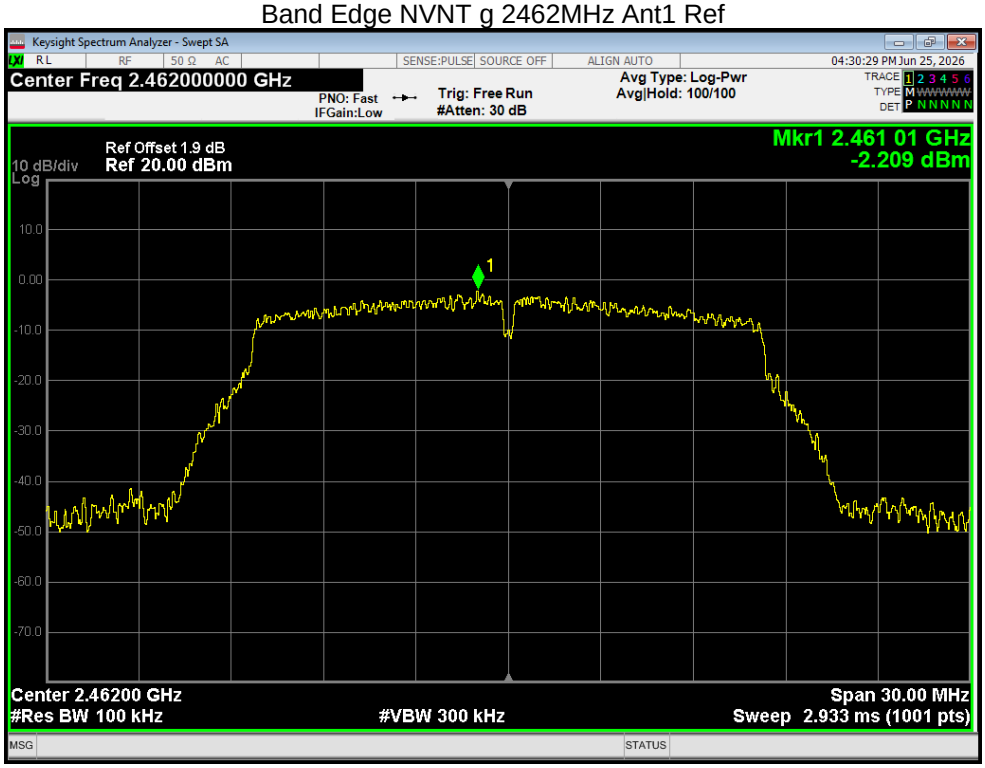
Band Edge NVNT g 2412MHz Ant1 Ref



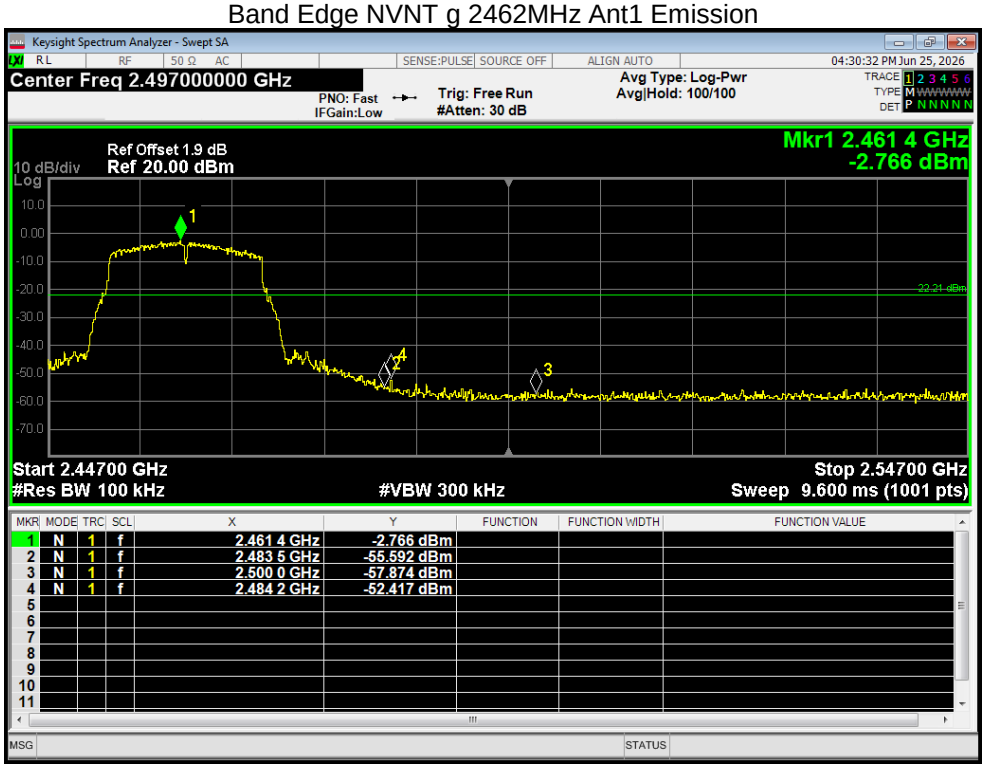
Band Edge NVNT g 2412MHz Ant1 Emission



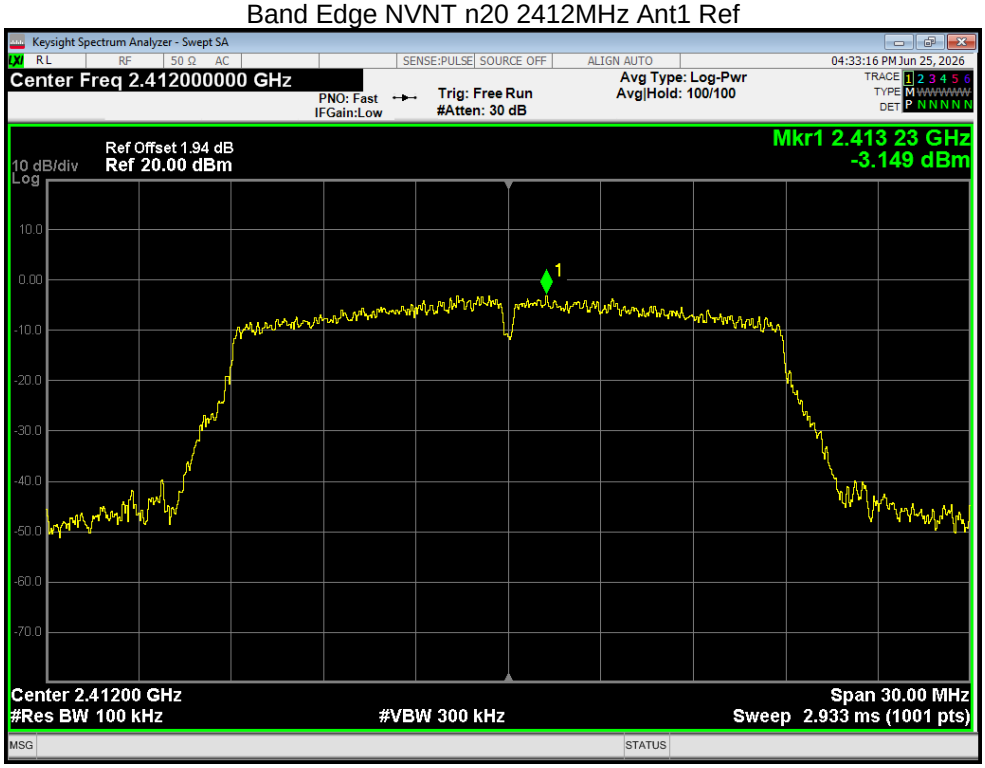
Band Edge NVNT g 2462MHz Ant1 Ref



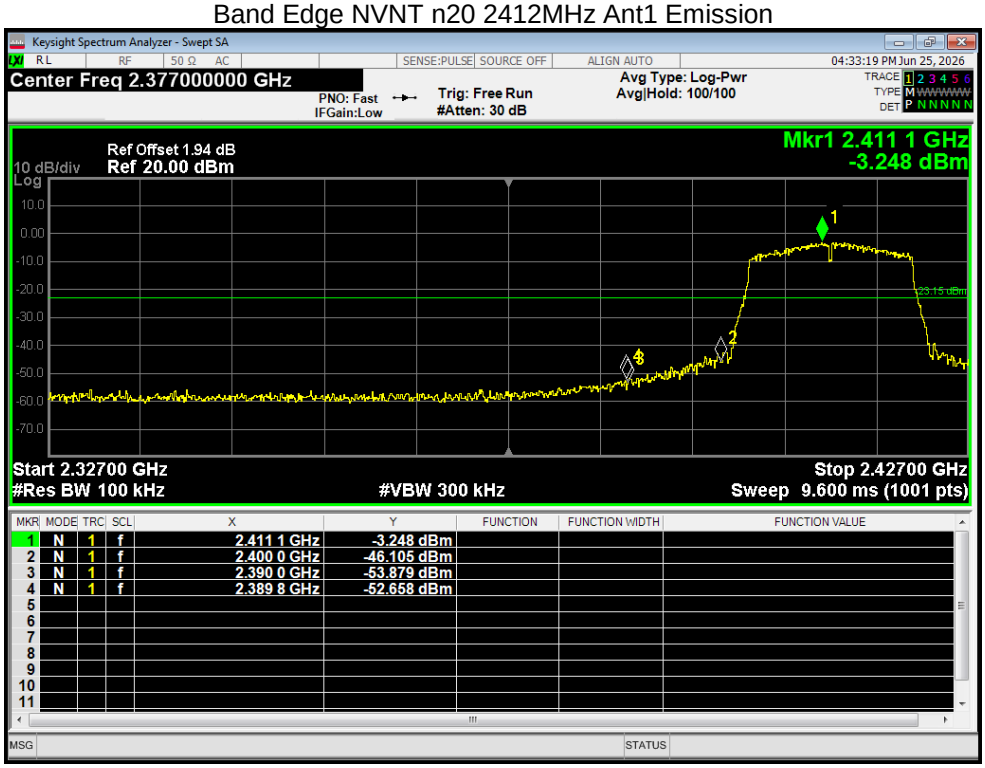
Band Edge NVNT g 2462MHz Ant1 Emission



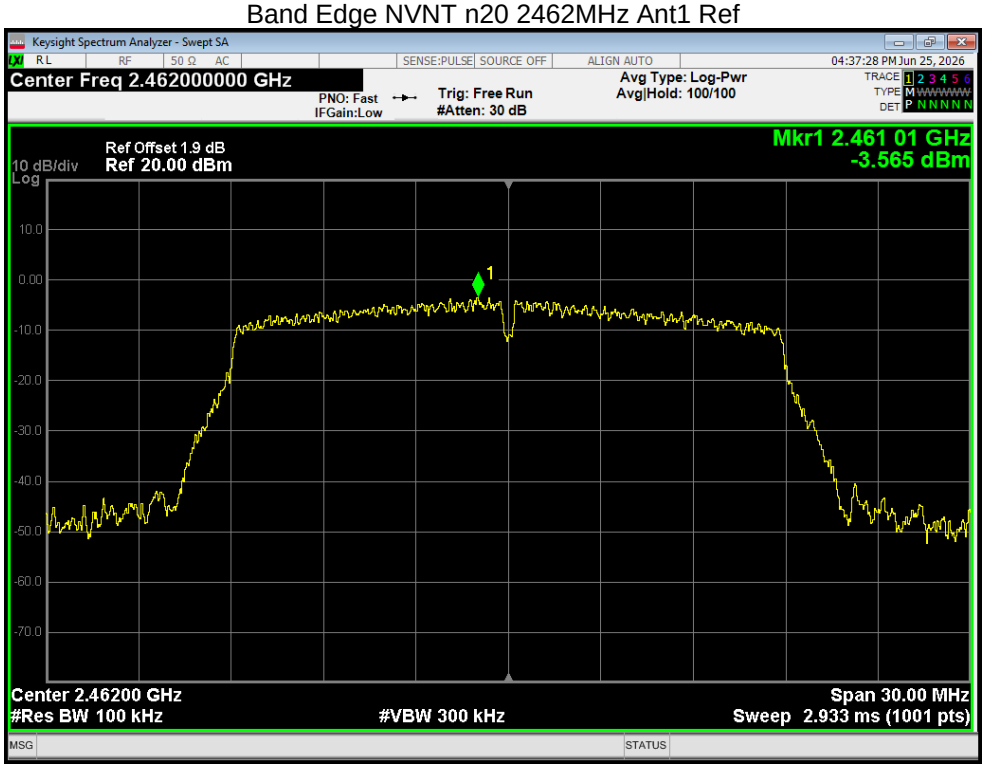
Band Edge NVNT n20 2412MHz Ant1 Ref



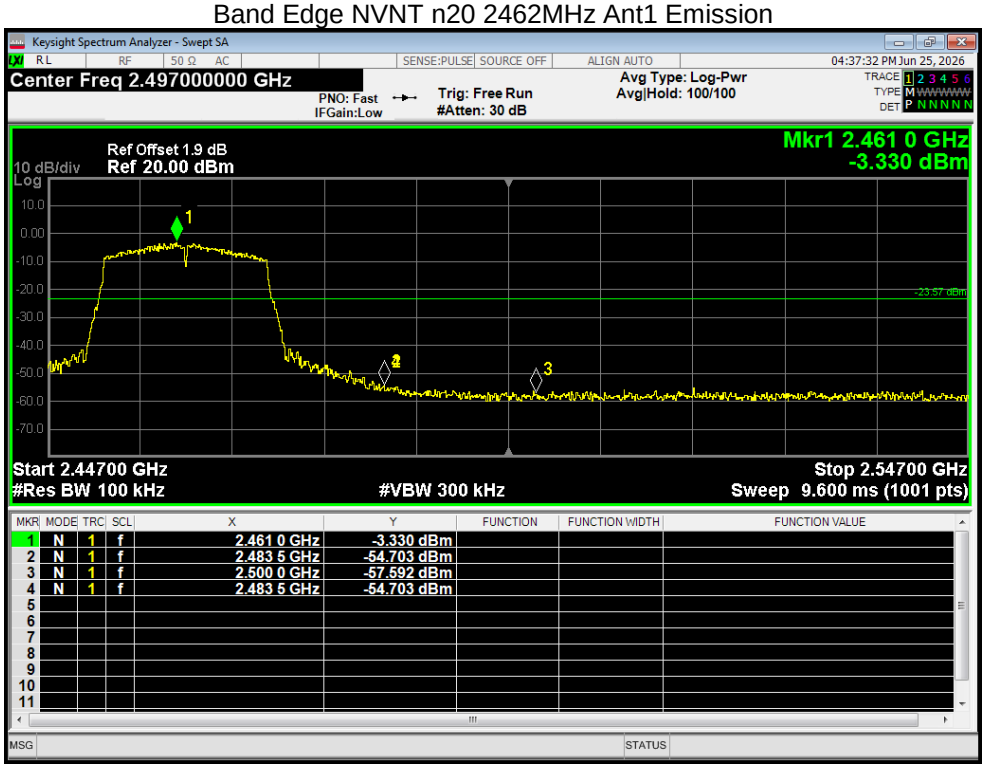
Band Edge NVNT n20 2412MHz Ant1 Emission



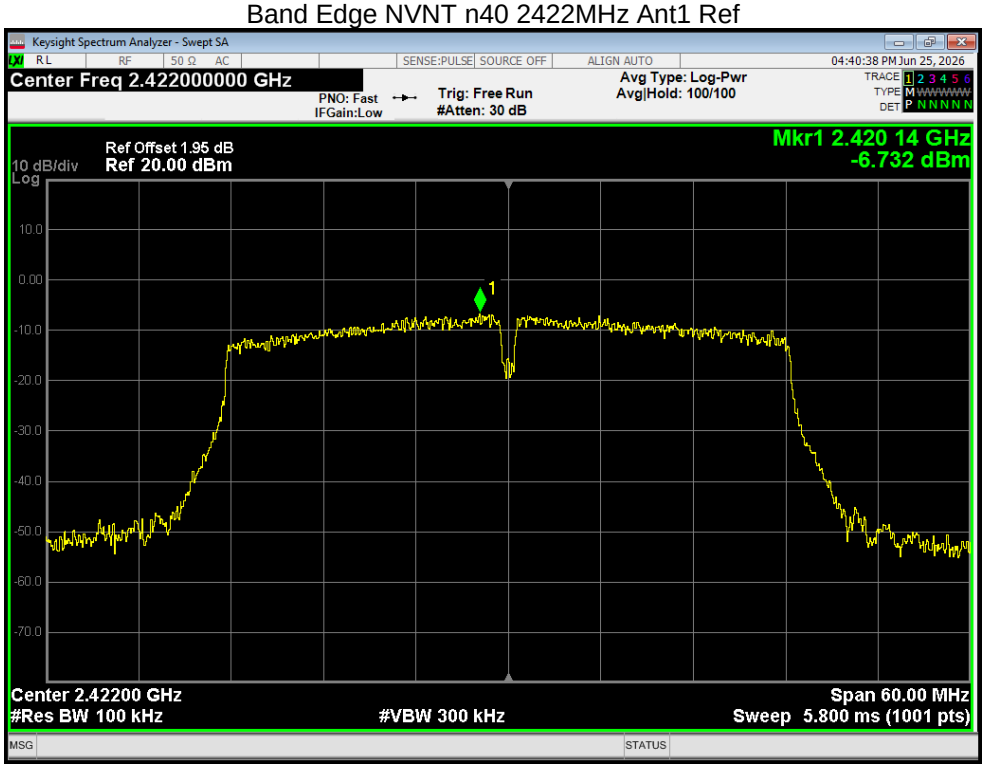
Band Edge NVNT n20 2462MHz Ant1 Ref



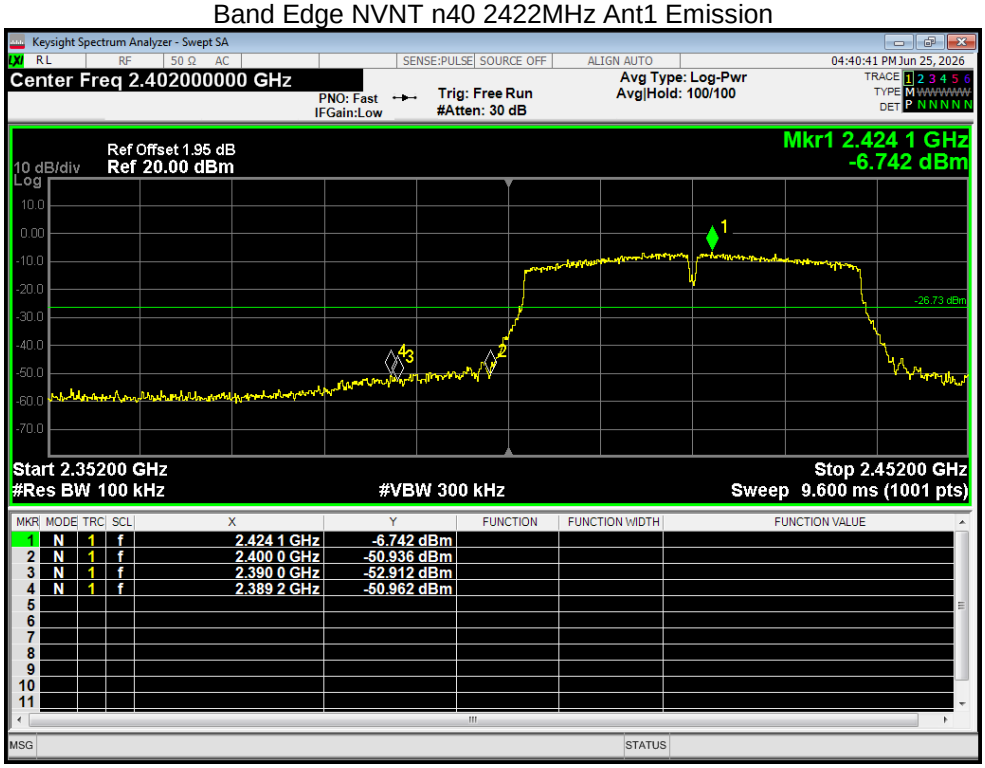
Band Edge NVNT n20 2462MHz Ant1 Emission



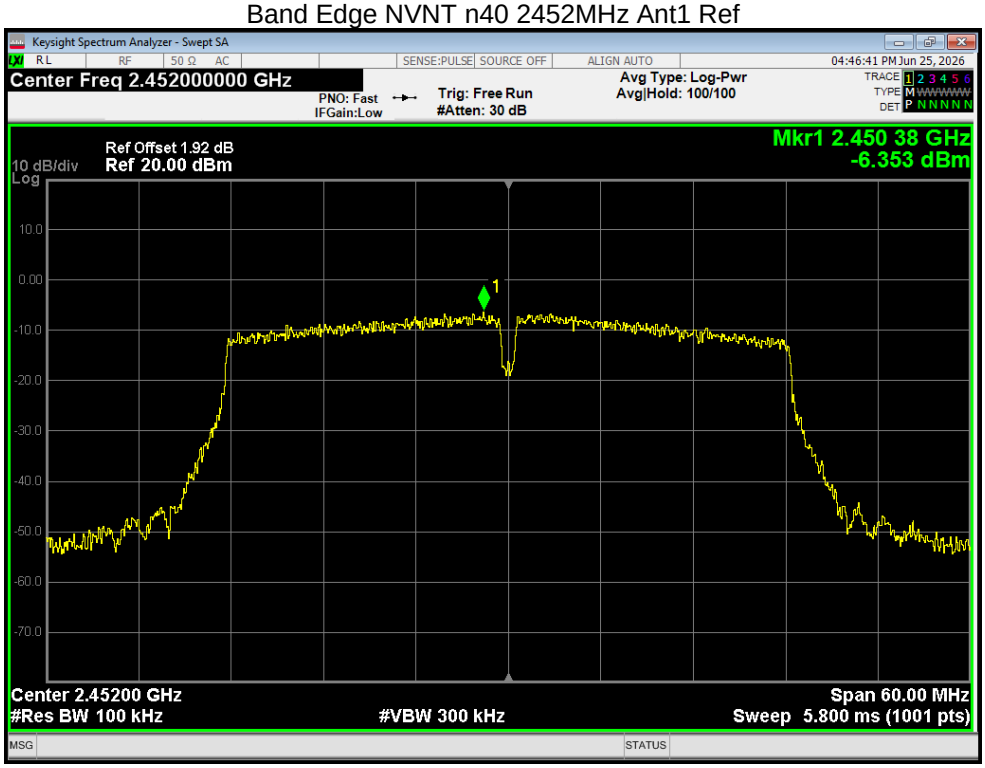
Band Edge NVNT n40 2422MHz Ant1 Ref



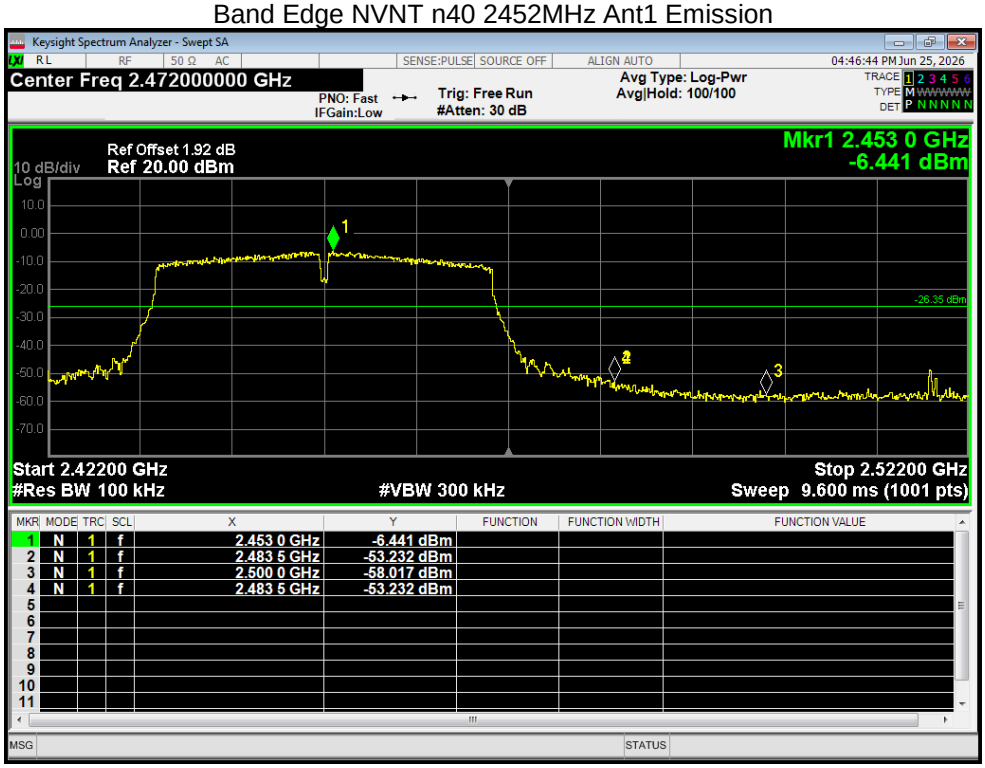
Band Edge NVNT n40 2422MHz Ant1 Emission



Band Edge NVNT n40 2452MHz Ant1 Ref



Band Edge NVNT n40 2452MHz Ant1 Emission



Radiated Emission Method

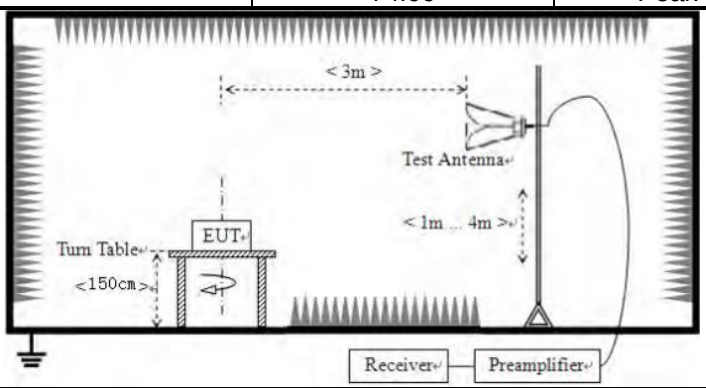
Test Requirement:	47CFR Part 15.209 and 15.205
Test Method:	ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 § 6.10.4&11.12.1
Test Frequency Range:	All of the restrict bands were tested, only the worst band's (2310MHz to 2500MHz) data was showed.
Test site:	Measurement Distance: 3m
Receiver setup:	

Frequency	Detector	RBW	VBW	Value
Above 1GHz	Peak	1MHz	3MHz	Peak
	Average	1MHz	3MHz	Average

Limit:

Frequency	Limit (dBuV/m @3m)	Value
Above 1GHz	54.00	Average
	74.00	Peak

Test setup:



Test Procedure:

1. The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.
2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading.
5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
7. The radiation measurements are performed in X, Y, Z axis positioning. And found the Y axis positioning which it is worse case, only the test worst case mode is recorded in the report.

Test Instruments:	Refer to section 3.0 for details	
Test mode:	Refer to section 2.2 for details	
Test environment:	Temp.: 21.7°C	Humid.: 63%RH
Test voltage:	AC 120V 60HZ	
Test results:	Pass	

Measurement data:

Test mode:	802.11b	Test channel:	Lowest

Peak value:

Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2310.00	56.42	-13.36	43.06	74.00	-30.94	Horizontal
2390.00	57.83	-13.03	44.80	74.00	-29.20	Horizontal
2310.00	57.32	-13.36	43.96	74.00	-30.04	Vertical
2390.00	58.48	-13.03	45.45	74.00	-28.55	Vertical

Average value:

Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2310.00	47.65	-13.36	34.29	54.00	-19.71	Horizontal
2390.00	49.75	-13.03	36.72	54.00	-17.28	Horizontal
2310.00	48.11	-13.36	34.75	54.00	-19.25	Vertical
2390.00	48.89	-13.03	35.86	54.00	-18.14	Vertical

Test mode:	802.11b	Test channel:	Highest

Peak value:

Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	57.30	-12.64	44.66	74.00	-29.34	Horizontal
2500.00	55.74	-12.57	43.17	74.00	-30.83	Horizontal
2483.50	58.50	-12.64	45.86	74.00	-28.14	Vertical
2500.00	56.30	-12.57	43.73	74.00	-30.27	Vertical

Average value:

Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	47.30	-12.64	34.66	54.00	-19.34	Horizontal
2500.00	46.51	-12.57	33.94	54.00	-20.06	Horizontal
2483.50	48.43	-12.64	35.79	54.00	-18.21	Vertical
2500.00	47.46	-12.57	34.89	54.00	-19.11	Vertical

Remarks:

1. *The pre-test were performed on lowest, middle and highest frequencies, only the worst case's (lowest and highest frequencies) data was showed.*
2. *Final Level =Receiver Read level + Factor*
3. *Factor =Antenna Factor + Cable Loss – Preamplifier Factor*
4. *Emissions more than 20 dB below the limit do not need to be reported.*

Test mode:	802.11g	Test channel:	Lowest

Peak value:

Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2310.00	56.74	-13.36	43.38	74.00	-30.62	Horizontal
2390.00	58.82	-13.03	45.79	74.00	-28.21	Horizontal
2310.00	57.63	-13.36	44.27	74.00	-29.73	Vertical
2390.00	59.58	-13.03	46.55	74.00	-27.45	Vertical

Average value:

Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2310.00	47.87	-13.36	34.51	54.00	-19.49	Horizontal
2390.00	49.17	-13.03	36.14	54.00	-17.86	Horizontal
2310.00	47.95	-13.36	34.59	54.00	-19.41	Vertical
2390.00	49.48	-13.03	36.45	54.00	-17.55	Vertical

Test mode:	802.11g	Test channel:	Highest

Peak value:

Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	59.17	-12.64	46.53	74.00	-27.47	Horizontal
2500.00	57.79	-12.57	45.22	74.00	-28.78	Horizontal
2483.50	60.29	-12.64	47.65	74.00	-26.35	Vertical
2500.00	57.20	-12.57	44.63	74.00	-29.37	Vertical

Average value:

Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	49.08	-12.64	36.44	54.00	-17.56	Horizontal
2500.00	47.73	-12.57	35.16	54.00	-18.84	Horizontal
2483.50	49.76	-12.64	37.12	54.00	-16.88	Vertical
2500.00	47.01	-12.57	34.44	54.00	-19.56	Vertical

Remarks:

1. *The pre-test were performed on lowest, middle and highest frequencies, only the worst case's (lowest and highest frequencies) data was showed.*
2. *Final Level =Receiver Read level + Factor*
3. *Factor =Antenna Factor + Cable Loss – Preamplifier Factor*
4. *Emissions more than 20 dB below the limit do not need to be reported.*

Test mode:	802.11n(HT20)	Test channel:	Lowest

Peak value:

Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2310.00	57.93	-13.36	44.57	74.00	-29.43	Horizontal
2390.00	60.22	-13.03	47.19	74.00	-26.81	Horizontal
2310.00	58.40	-13.36	45.04	74.00	-28.97	Vertical
2390.00	61.21	-13.03	48.18	74.00	-25.82	Vertical

Average value:

Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2310.00	48.61	-13.36	35.25	54.00	-18.75	Horizontal
2390.00	49.98	-13.03	36.95	54.00	-17.05	Horizontal
2310.00	49.30	-13.36	35.94	54.00	-18.06	Vertical
2390.00	50.66	-13.03	37.63	54.00	-16.37	Vertical

Test mode:	802.11n(HT20)	Test channel:	Highest

Peak value:

Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	59.45	-12.64	46.81	74.00	-27.19	Horizontal
2500.00	57.27	-12.57	44.70	74.00	-29.30	Horizontal
2483.50	60.55	-12.64	47.91	74.00	-26.09	Vertical
2500.00	58.73	-12.57	46.16	74.00	-27.84	Vertical

Average value:

Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	50.33	-12.64	37.69	54.00	-16.31	Horizontal
2500.00	47.84	-12.57	35.27	54.00	-18.73	Horizontal
2483.50	50.18	-12.64	37.54	54.00	-16.46	Vertical
2500.00	47.70	-12.57	35.13	54.00	-18.87	Vertical

Remarks:

1. *The pre-test were performed on lowest, middle and highest frequencies, only the worst case's (lowest and highest frequencies) data was showed.*
2. *Final Level =Receiver Read level + Factor*
3. *Factor =Antenna Factor + Cable Loss – Preamplifier Factor*
4. *Emissions more than 20 dB below the limit do not need to be reported.*

Test mode:	802.11n(HT40)	Test channel:	Lowest

Peak value:

Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2310.00	57.86	-13.36	44.50	74.00	-29.50	Horizontal
2390.00	59.76	-13.03	46.73	74.00	-27.27	Horizontal
2310.00	58.69	-13.36	45.33	74.00	-28.67	Vertical
2390.00	59.86	-13.03	46.83	74.00	-27.17	Vertical

Average value:

Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2310.00	50.05	-13.36	36.69	54.00	-17.31	Horizontal
2390.00	80.20	-13.03	67.17	54.00	13.17	Horizontal
2310.00	50.32	-13.36	36.96	54.00	-17.04	Vertical
2390.00	50.05	-13.36	36.69	54.00	-17.31	Vertical

Test mode:	802.11n(HT40)	Test channel:	Highest

Peak value:

Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	62.27	-12.64	49.63	74.00	-24.37	Horizontal
2500.00	60.48	-12.57	47.91	74.00	-26.09	Horizontal
2483.50	62.38	-12.64	49.74	74.00	-24.26	Vertical
2500.00	61.03	-12.57	48.46	74.00	-25.54	Vertical

Average value:

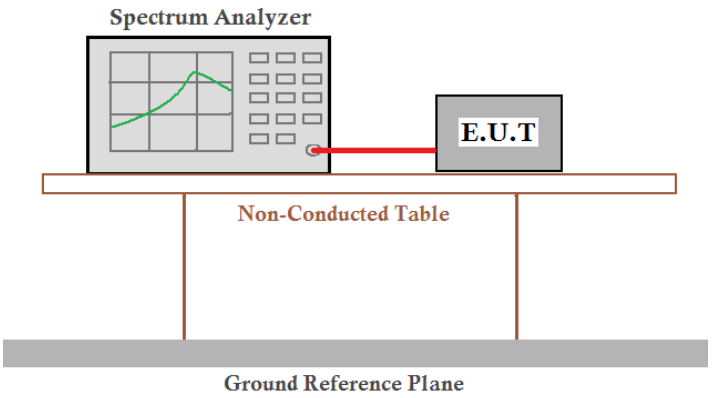
Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	51.90	-12.64	39.26	54.00	-14.74	Horizontal
2500.00	50.16	-12.57	37.59	54.00	-16.41	Horizontal
2483.50	52.47	-12.64	39.83	54.00	-14.17	Vertical
2500.00	50.66	-12.57	38.09	54.00	-15.91	Vertical

Remarks:

1. *The pre-test were performed on lowest, middle and highest frequencies, only the worst case's (lowest and highest frequencies) data was showed.*
2. *Final Level =Receiver Read level + Factor*
3. *Factor =Antenna Factor + Cable Loss – Preamplifier Factor*
4. *Emissions more than 20 dB below the limit do not need to be reported.*

4.8 Spurious Emission

Conducted Emission Method

Test Requirement:	47CFR Part 15.247 (d), 47CFR Part 15.209	
Test Method:	ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 § 11.12.2	
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.	
Test setup:		
Test Instruments:	Refer to section 3.0 for details	
Test mode:	Refer to section 2.2 for details	
Test environment:	Temp.: 27.4°C	Humid.: 50%RH
Test voltage:	AC 120V 60HZ	
Test results:	Pass	

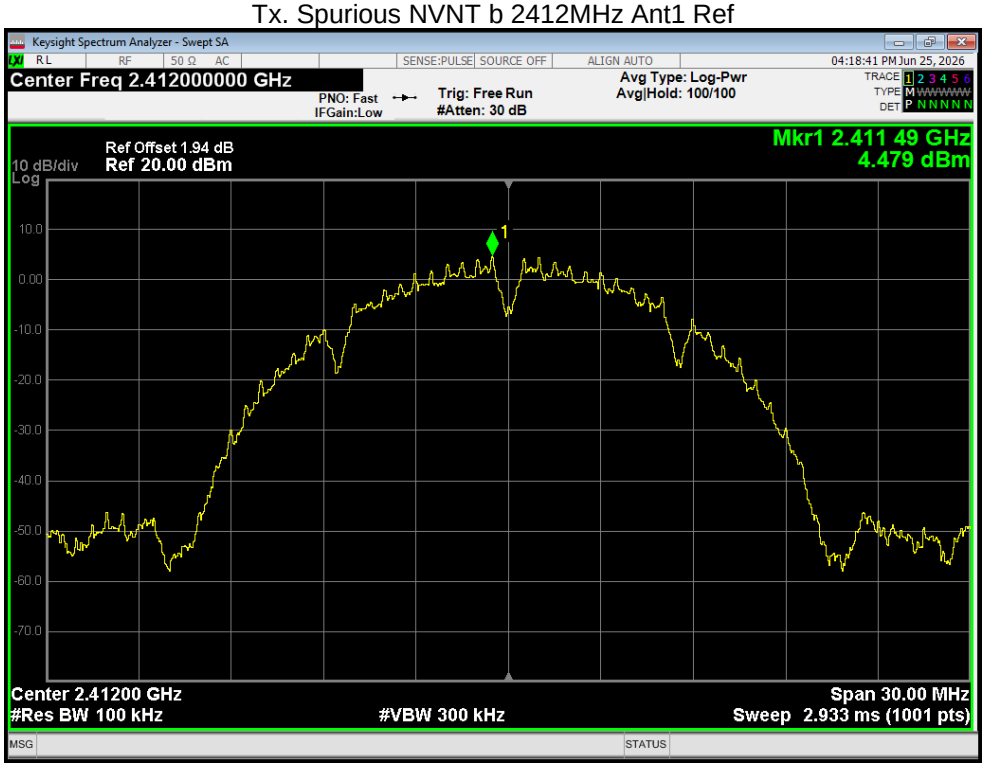
Remark:

1. Cable loss data included in Offset.

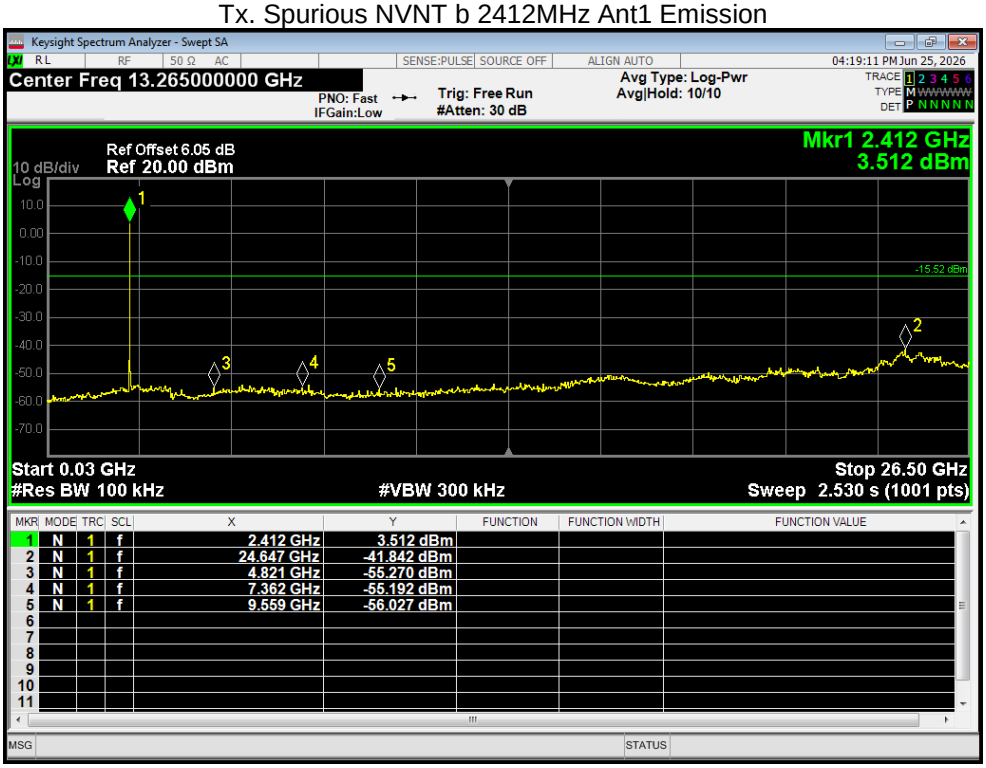
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-46.32	-20	Pass
NVNT	b	2437	Ant1	-46.4	-20	Pass
NVNT	b	2462	Ant1	-47.36	-20	Pass
NVNT	g	2412	Ant1	-38.83	-20	Pass
NVNT	g	2437	Ant1	-39.37	-20	Pass
NVNT	g	2462	Ant1	-39.54	-20	Pass
NVNT	n20	2412	Ant1	-39.14	-20	Pass
NVNT	n20	2437	Ant1	-38.34	-20	Pass
NVNT	n20	2462	Ant1	-38.19	-20	Pass
NVNT	n40	2422	Ant1	-35.55	-20	Pass
NVNT	n40	2437	Ant1	-36.24	-20	Pass
NVNT	n40	2452	Ant1	-36.31	-20	Pass

Test plot as follows:

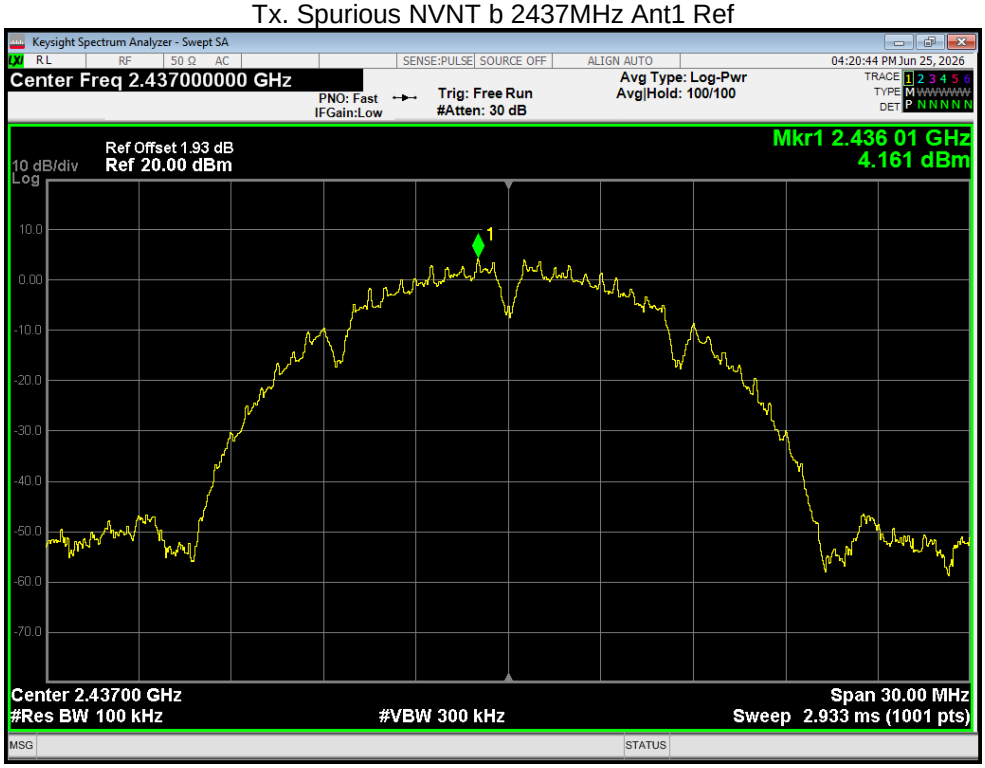
Tx. Spurious NVNT b 2412MHz Ant1 Ref



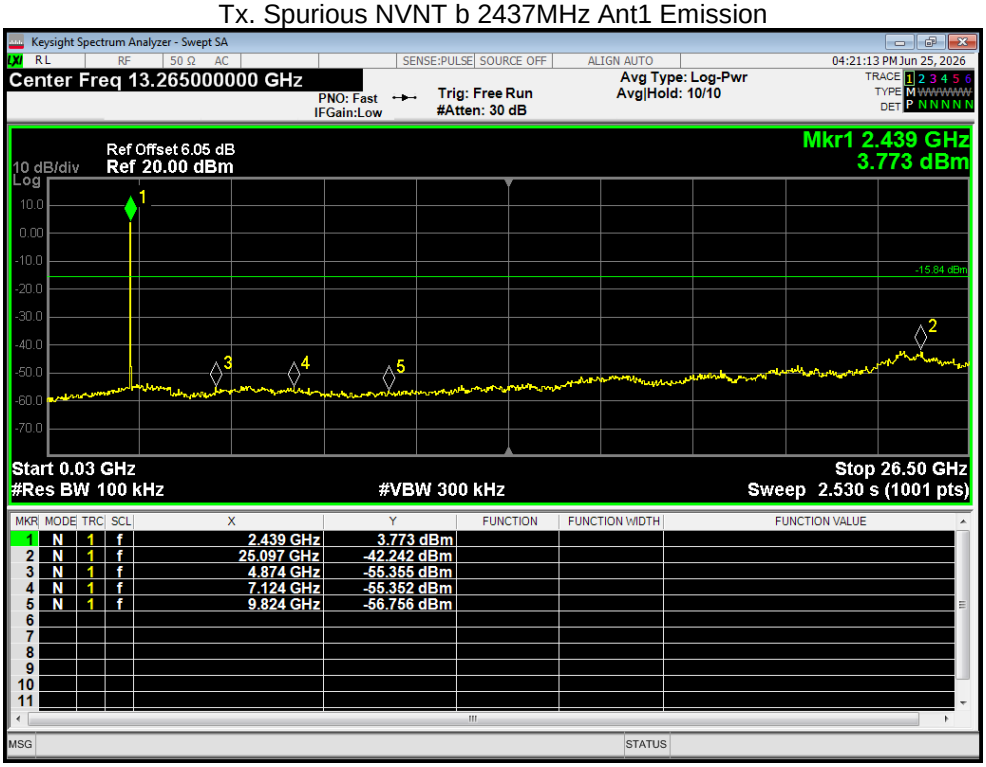
Tx. Spurious NVNT b 2412MHz Ant1 Emission



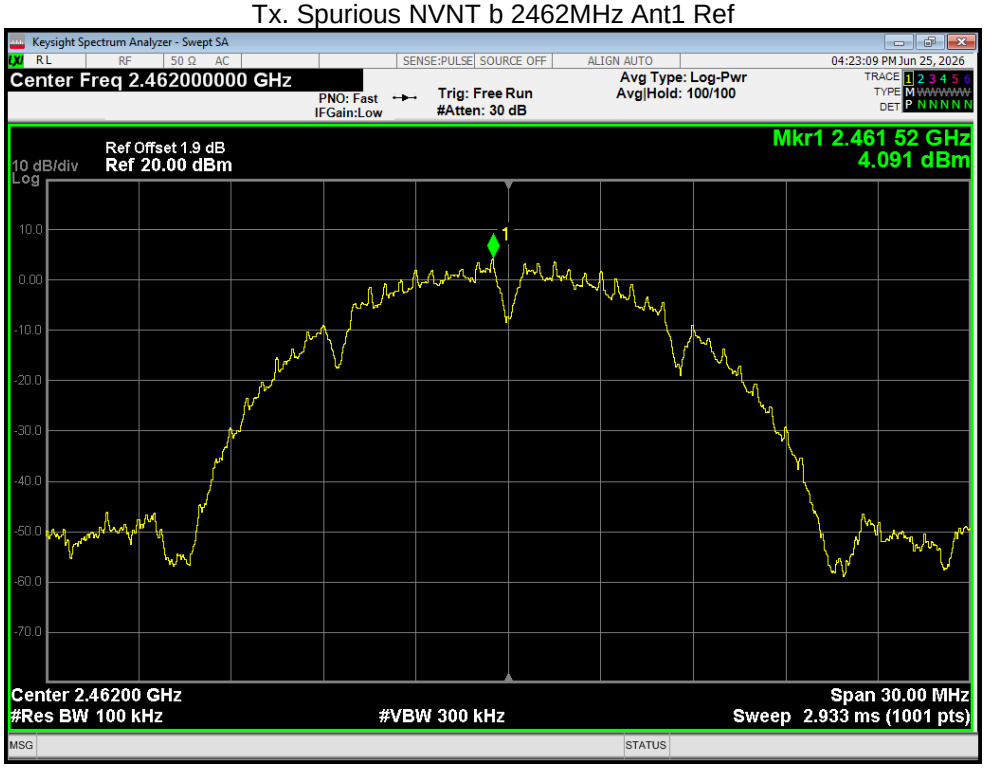
Tx. Spurious NVNT b 2437MHz Ant1 Ref



Tx. Spurious NVNT b 2437MHz Ant1 Emission



Tx. Spurious NVNT b 2462MHz Ant1 Ref



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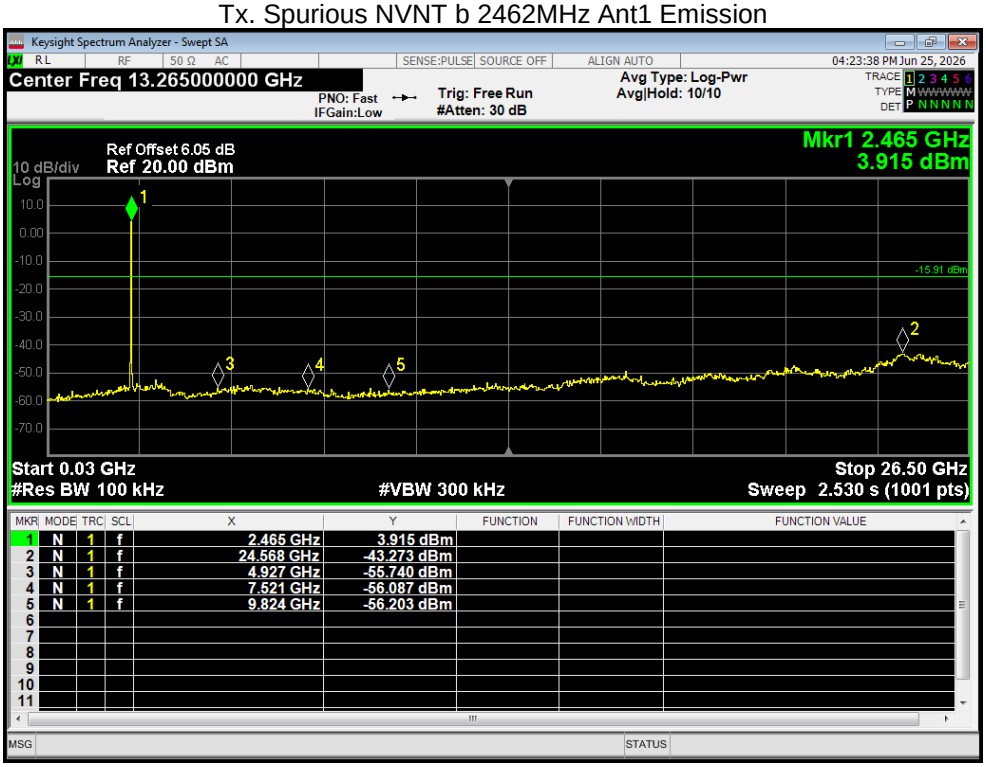
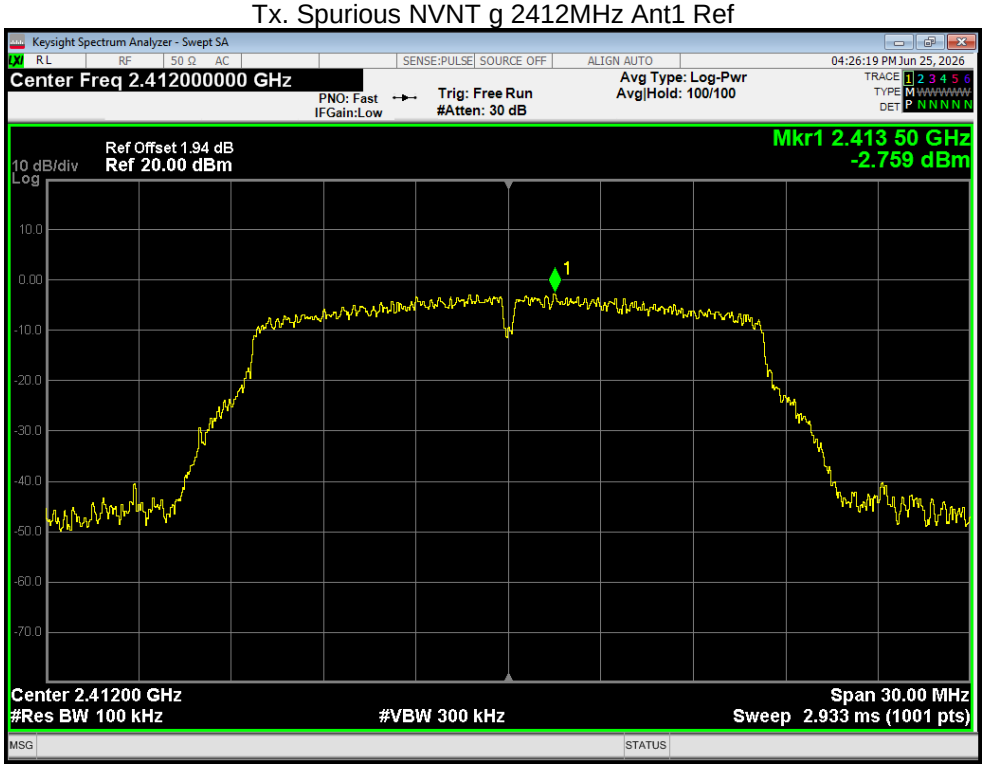


Tx. Spurious NVNT g 2412MHz Ant1 Ref



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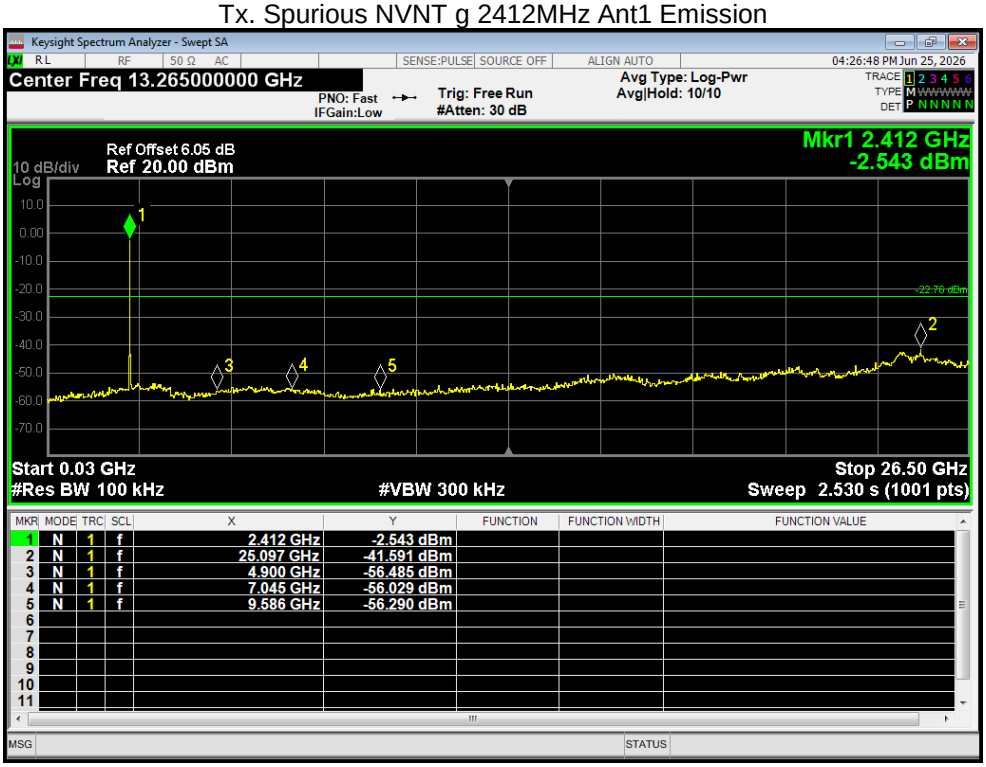

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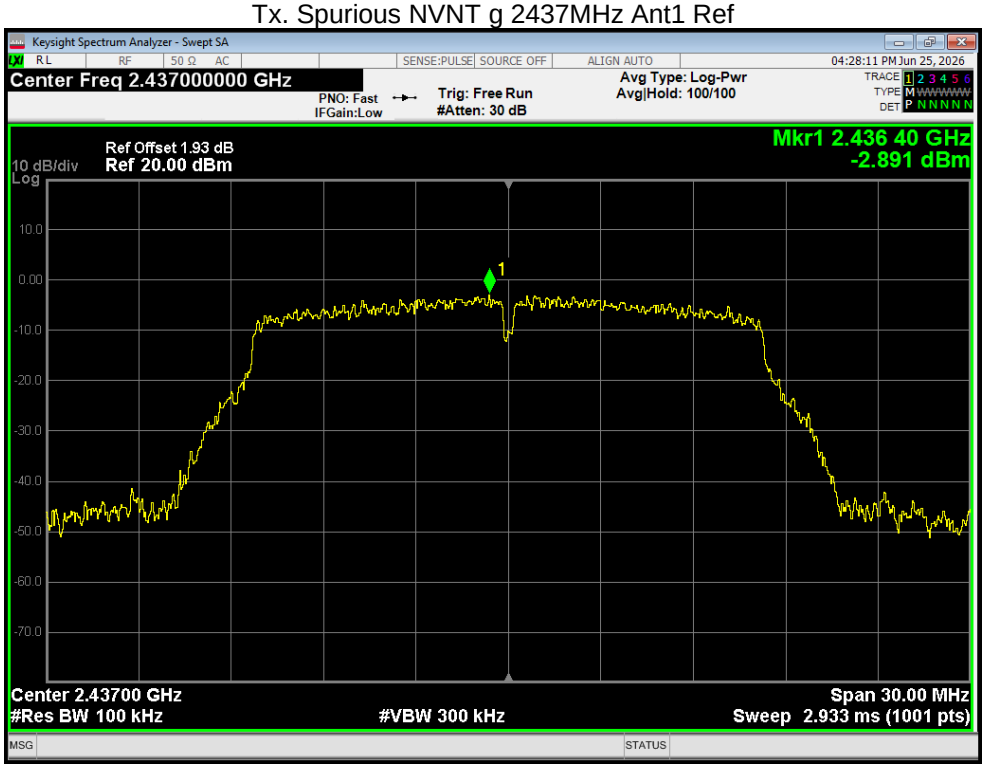
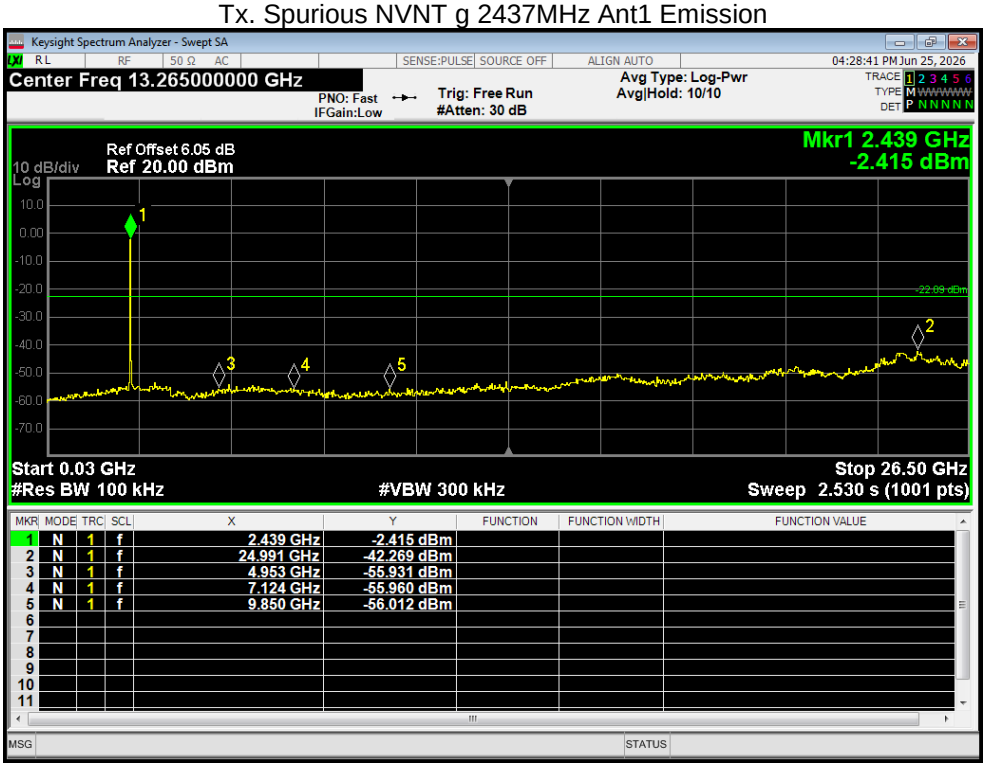
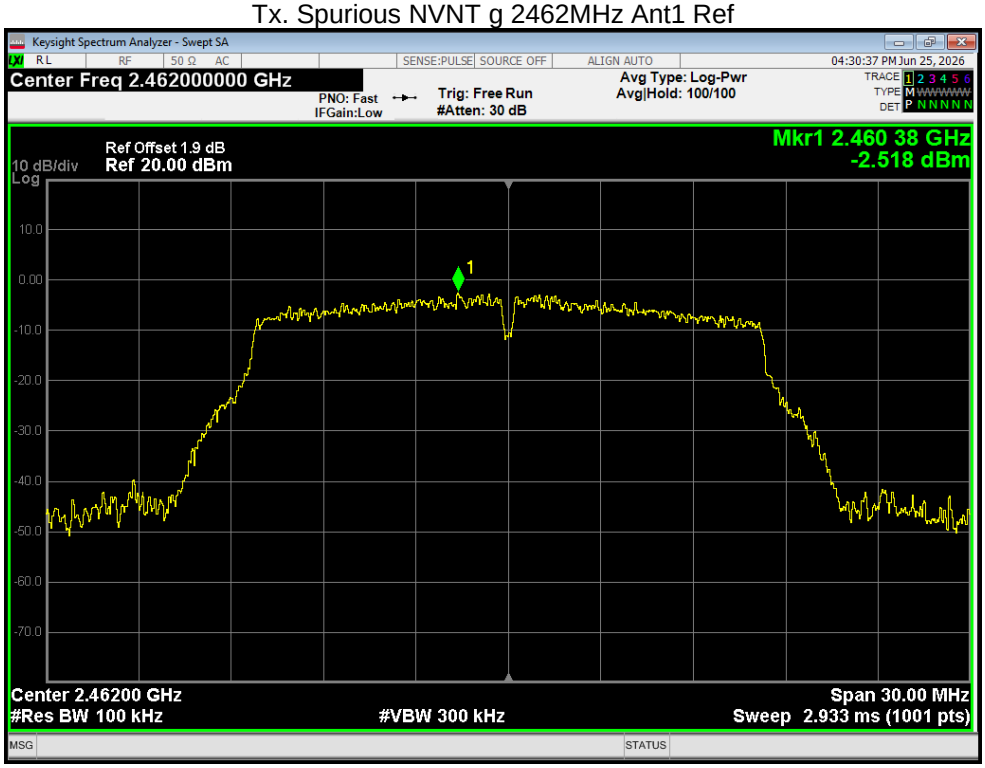


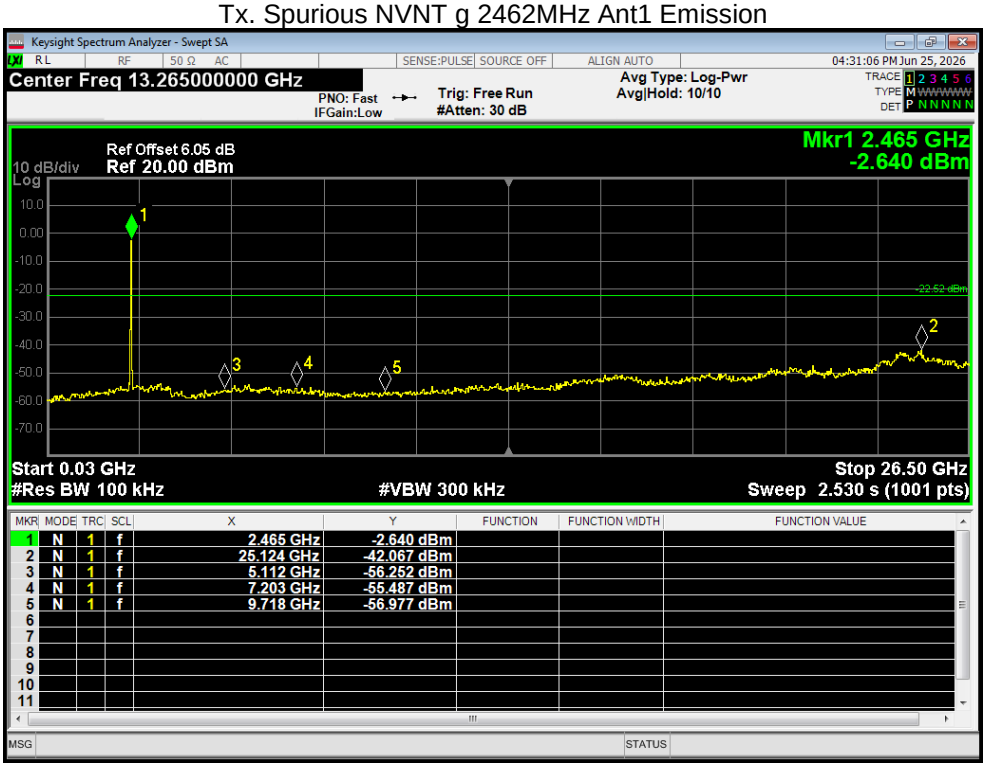
Tx. Spurious NVNT g 2437MHz Ant1 Emission



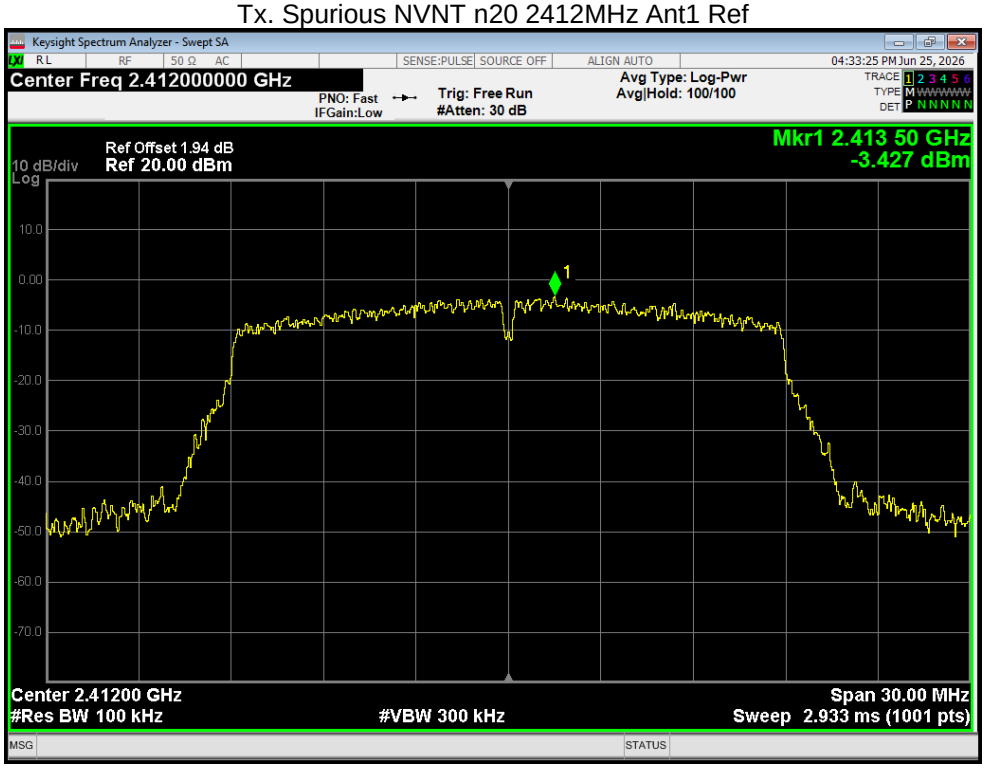
Tx. Spurious NVNT g 2462MHz Ant1 Ref



Tx. Spurious NVNT g 2462MHz Ant1 Emission



Tx. Spurious NVNT n20 2412MHz Ant1 Ref



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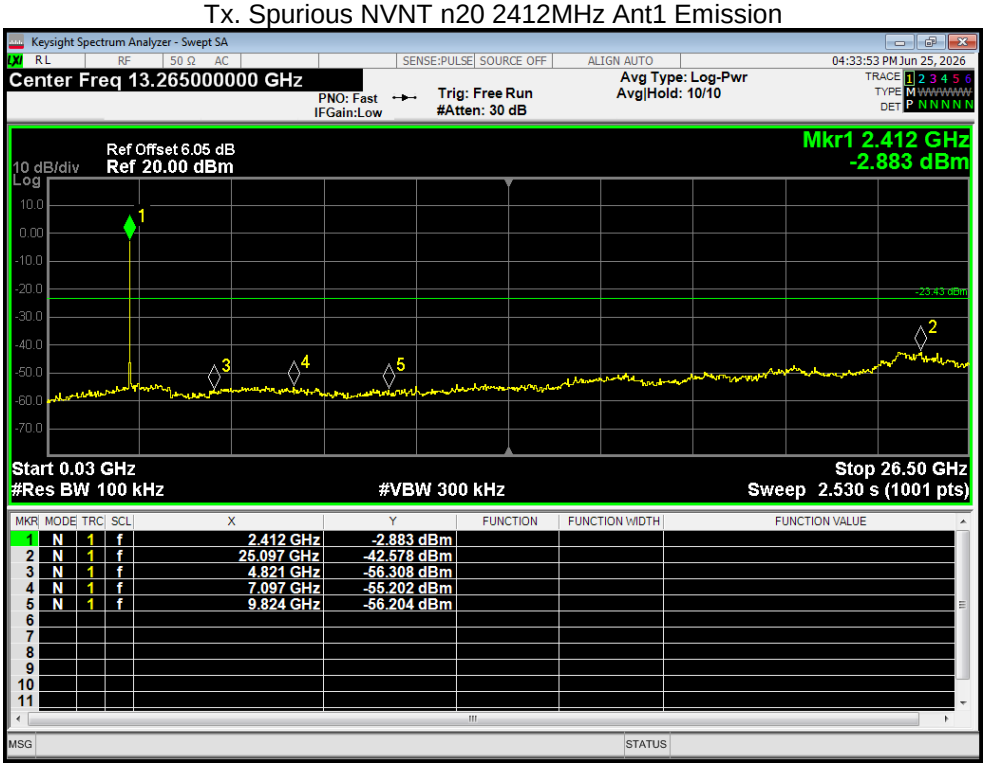

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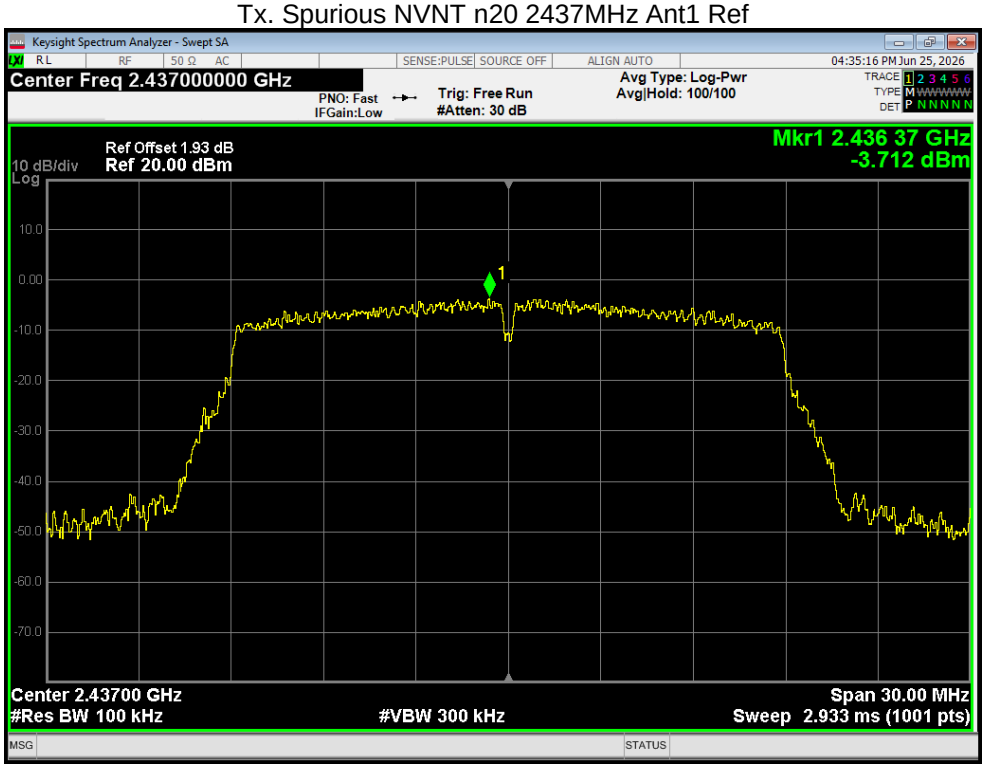

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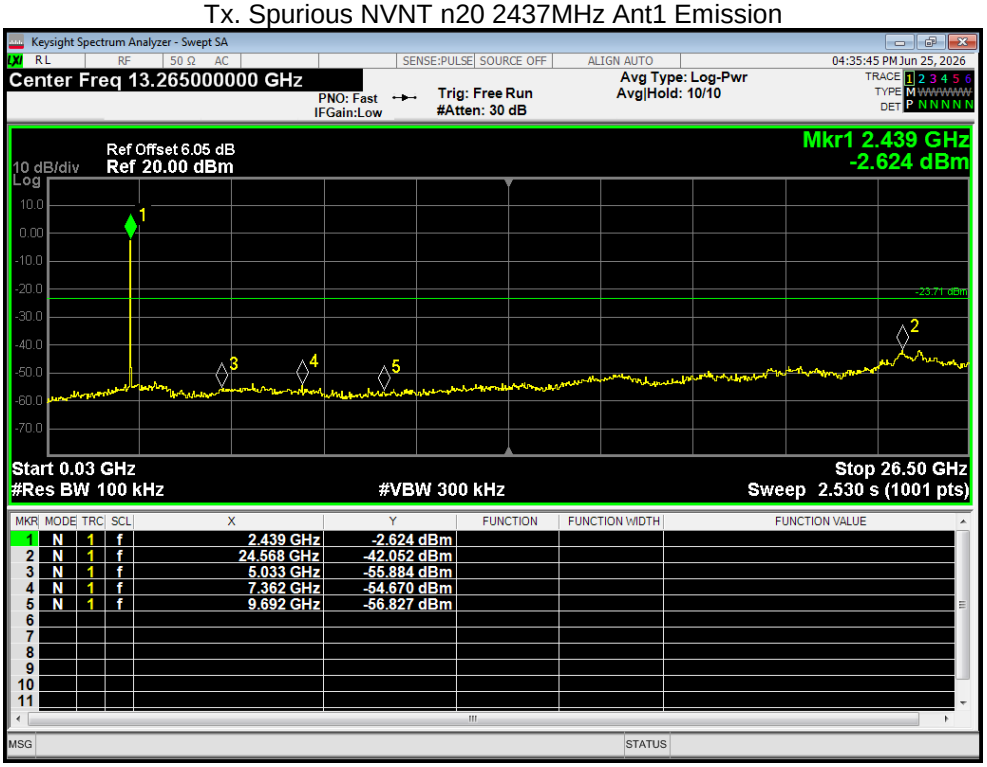

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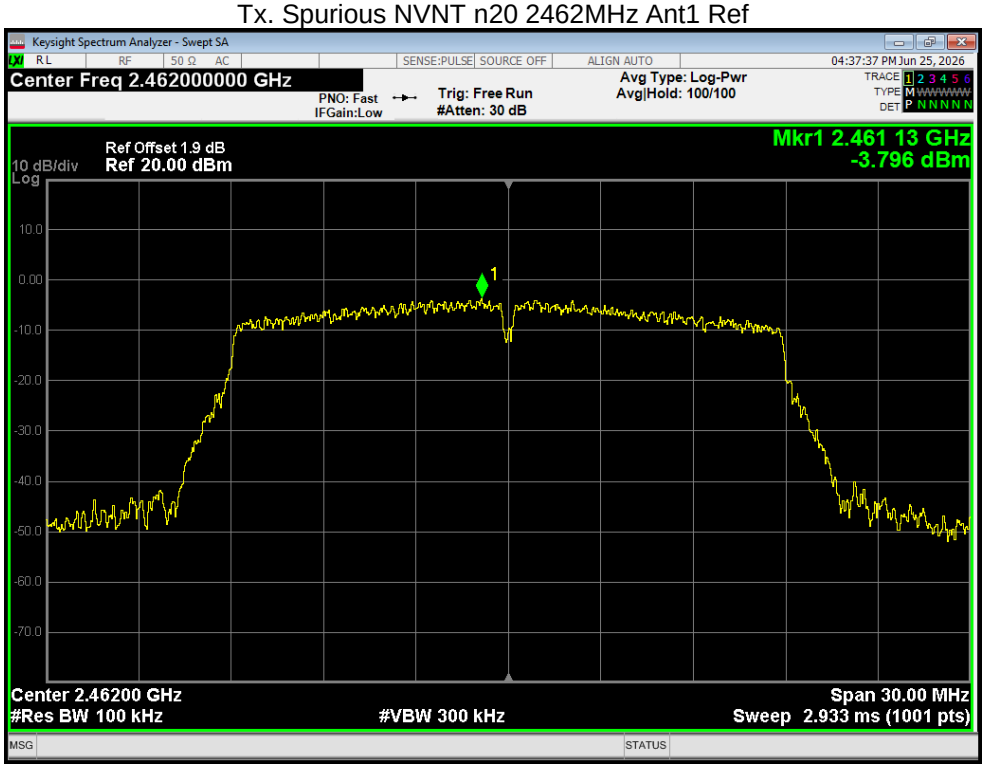

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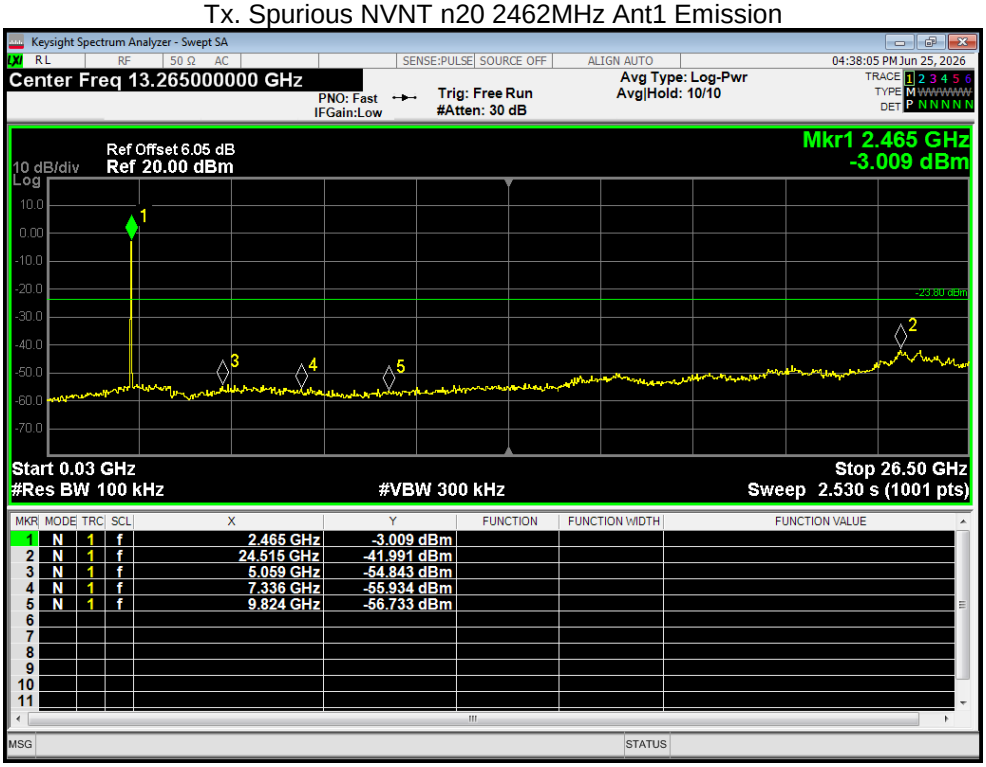
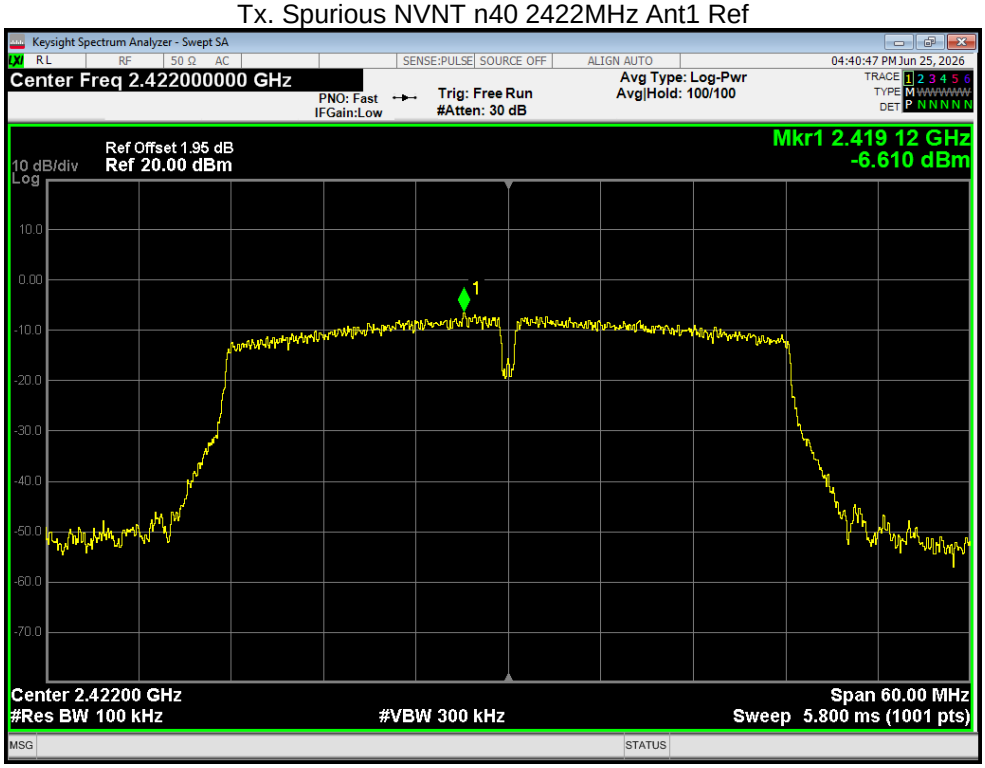


Tx. Spurious NVNT n40 2422MHz Ant1 Ref



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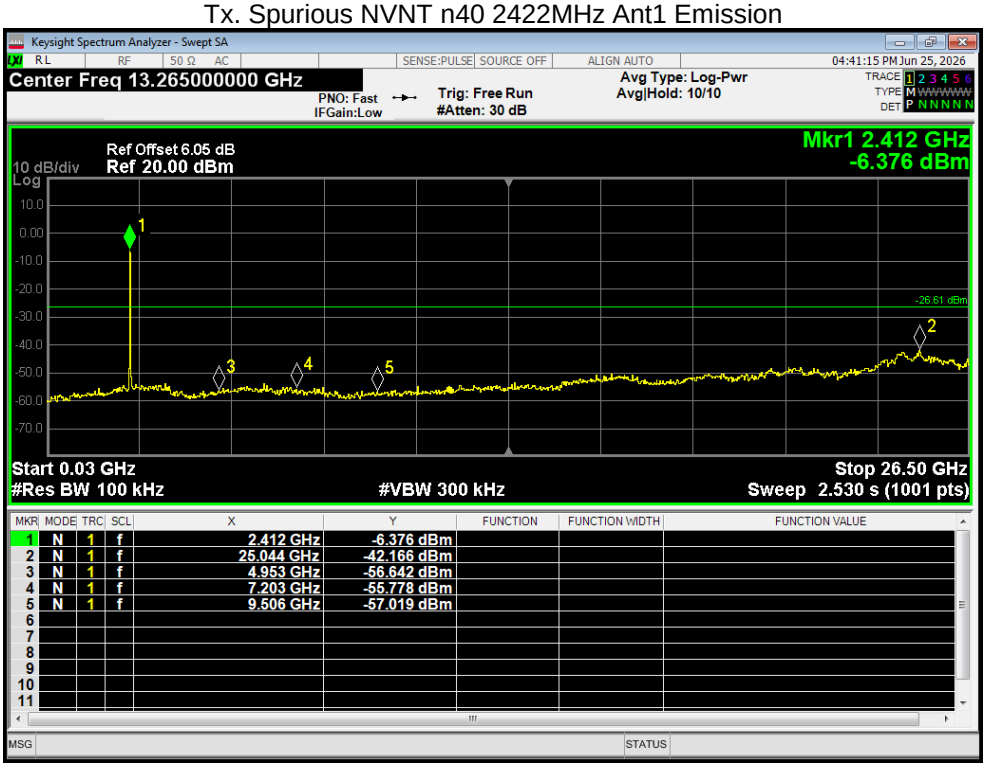

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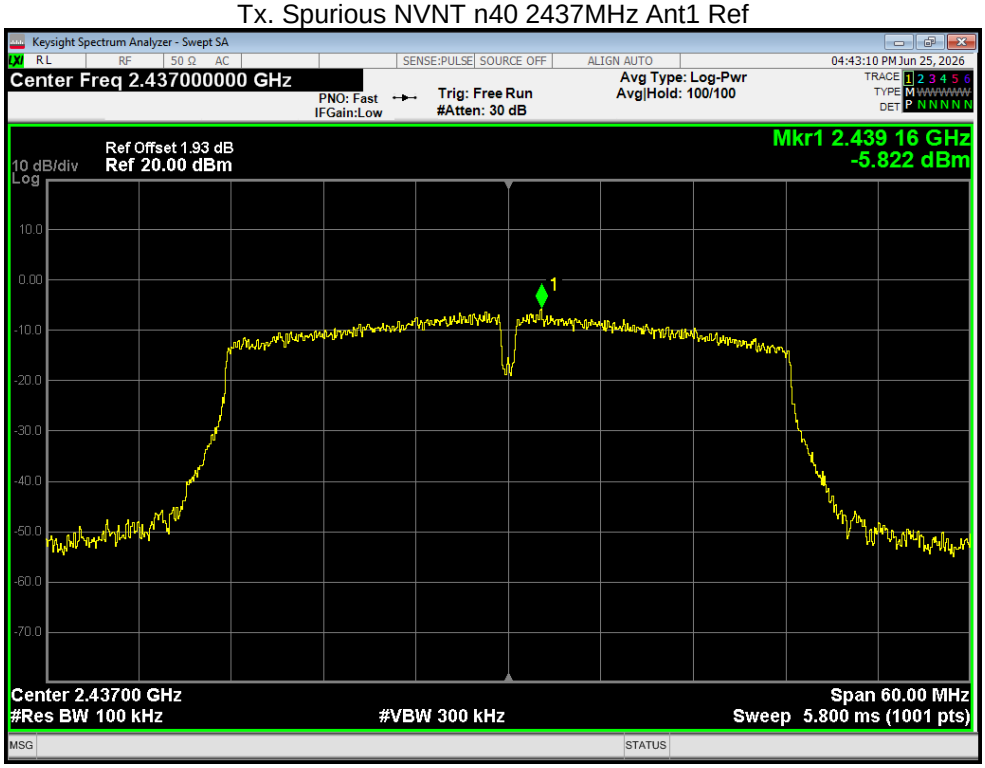

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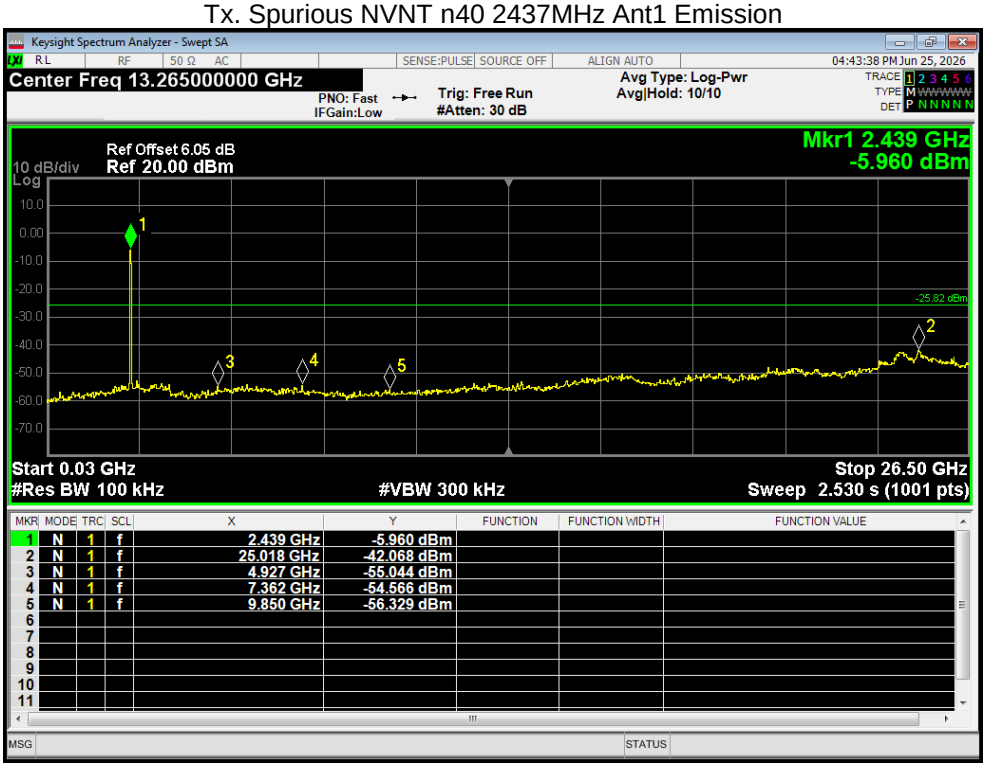
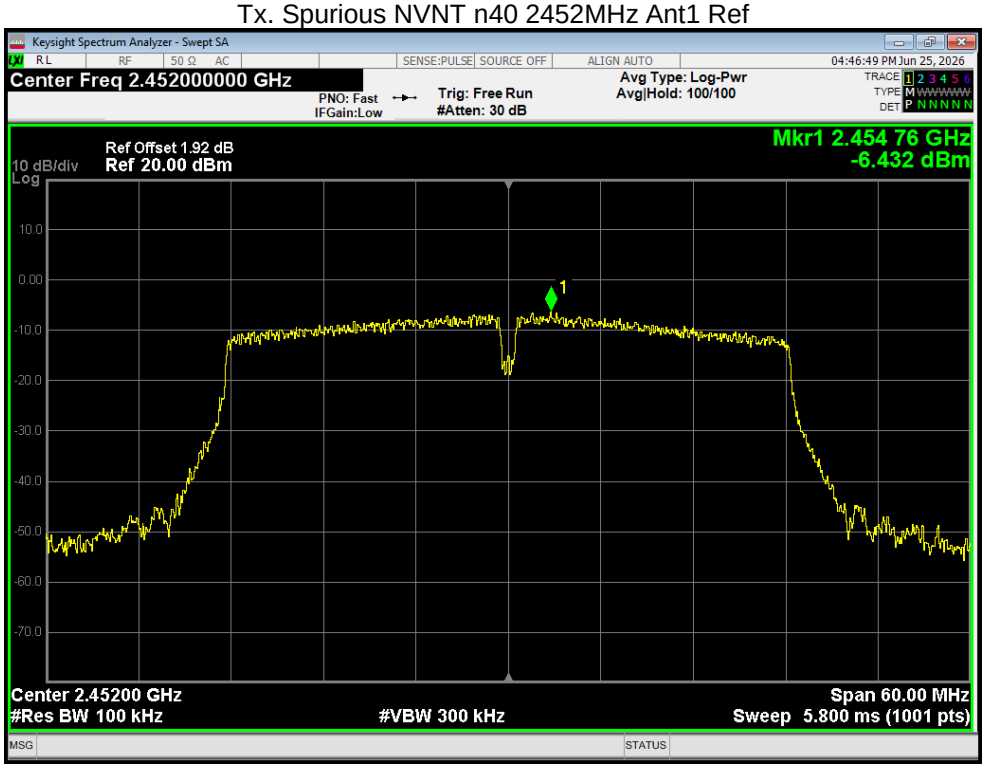


Tx. Spurious NVNT n40 2452MHz Ant1 Ref



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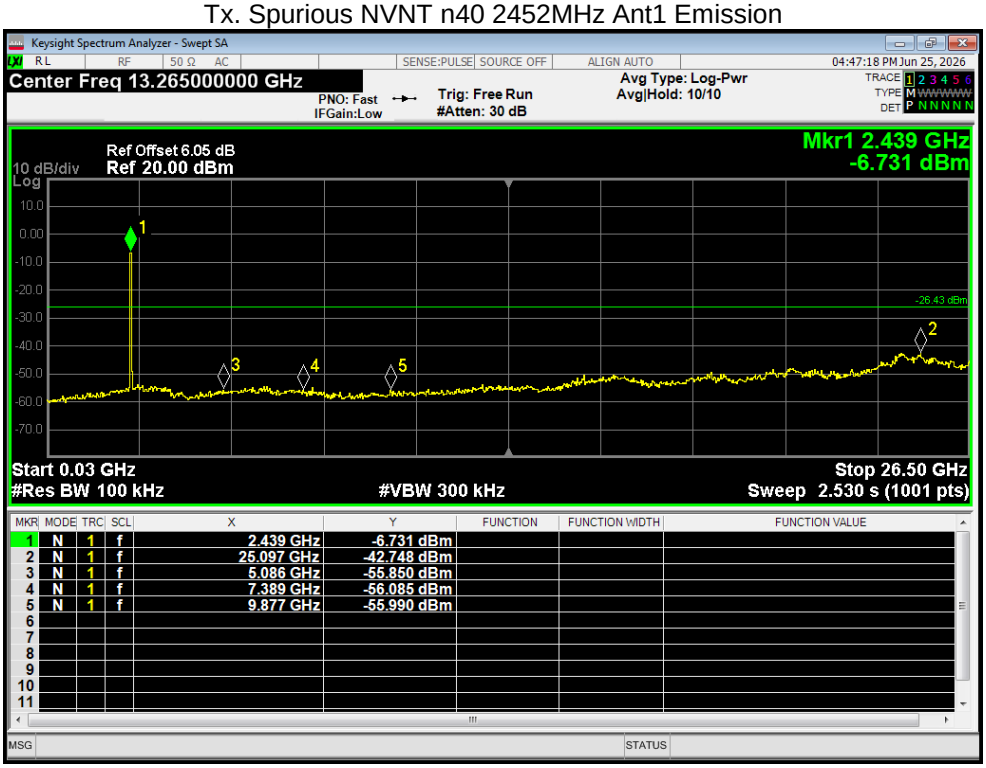


Radiated Emission Method

Test Requirement:	47CFR part 15.247(d),47CFR Part 15.209 and 15.205
Test Method:	ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024§6.4&6.5&6.6
Test Frequency Range:	9kHz to 25GHz
Test site:	Measurement Distance: 3m

Receiver setup:

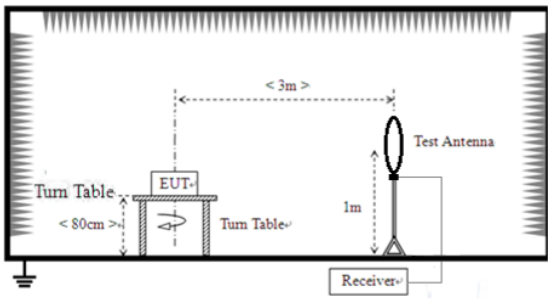
Frequency	Detector	RBW	VBW	Value
9KHz-150KHz	Quasi-peak	200Hz	600Hz	Quasi-peak
150KHz-30MHz	Quasi-peak	9KHz	30KHz	Quasi-peak
30MHz-1GHz	Quasi-peak	120KHz	360KHz	Quasi-peak
Above 1GHz	Peak	1MHz	3MHz	Peak
	Peak	1MHz	10Hz	Average

Limit:

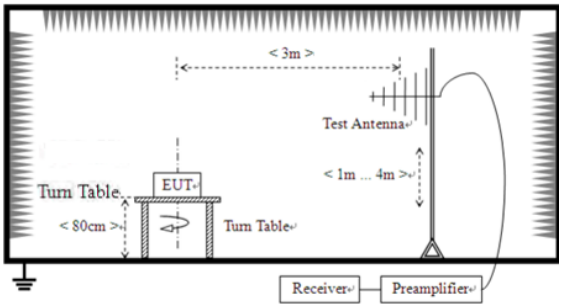
Frequency	Limit (uV/m)	Value	Measurement Distance
0.009MHz-0.490MHz	2400/F(KHz)	QP	300m
0.490MHz-1.705MHz	24000/F(KHz)	QP	300m
1.705MHz-30MHz	30	QP	30m
30MHz-88MHz	100	QP	3m
88MHz-216MHz	150	QP	
216MHz-960MHz	200	QP	
960MHz-1GHz	500	QP	
Above 1GHz	500	Average	
	5000	Peak	

Test setup:

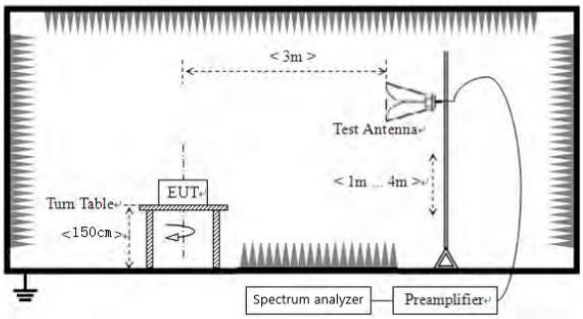
For radiated emissions from 9kHz to 30MHz



For radiated emissions from 30MHz to1GHz



For radiated emissions above 1GHz

	
Test Procedure:	1. The EUT was placed on the top of a rotating table (0.8m for below 1G and 1.5m for above 1G) above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation. 2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. 4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading. 5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
Test Instruments:	Refer to section 3.0 for details
Test mode:	Refer to section 2.2 for details
Test results:	Pass

Remarks:

1. *The report only shows the worst mode.*
2. *Pre-scan all kind of the place mode (X-axis, Y-(axis, Z-axis), and found the Y-axis which it is worse case.*
3. *All models and modes have been tested, and the report only displays the worst mode 802.11g (2437MHz) data.*

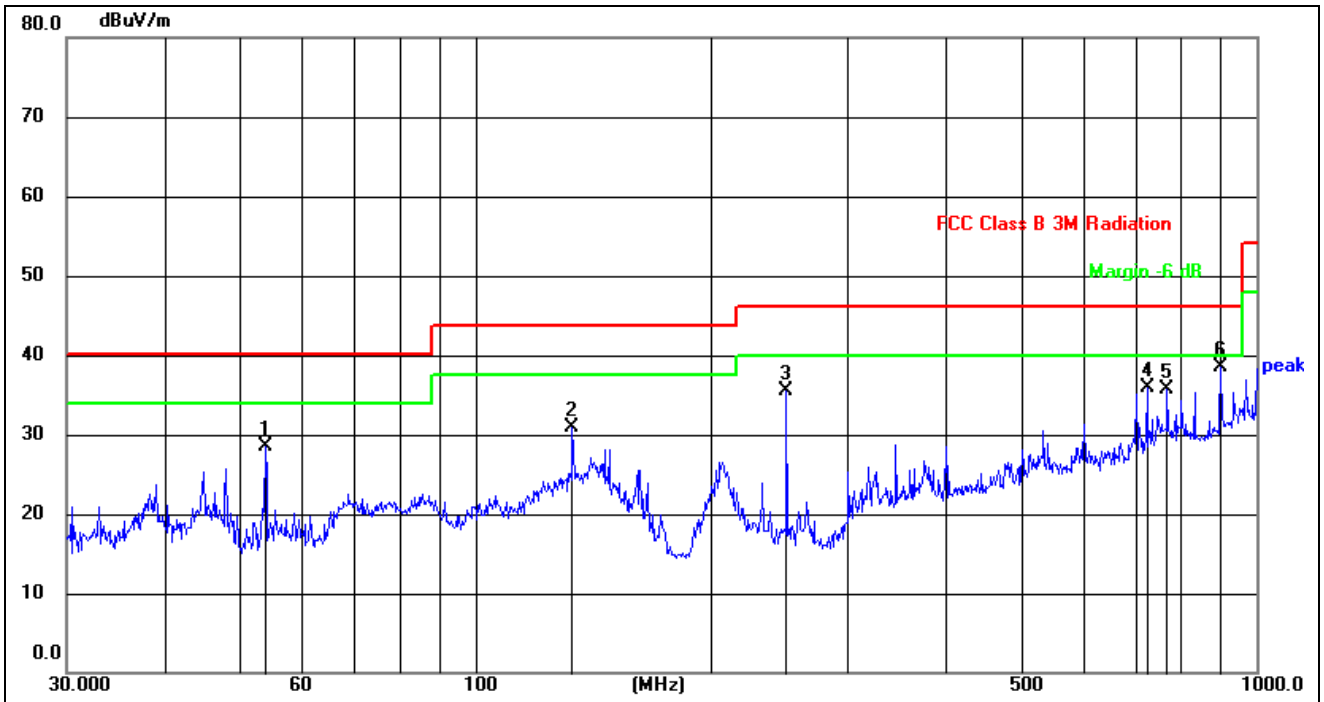
Measurement data:

- **9kHz~30MHz**

The emission from 9 kHz to 30MHz was pre-tested and found the result was 20dB lower than the limit, and according to 15.31(o), the test result no need to reported.

■ **Below 1GHz**

Test polarization:	Vertical	Test voltage:	AC 120V 60Hz
Temp.:	21.7°C	Humid.:	63%RH



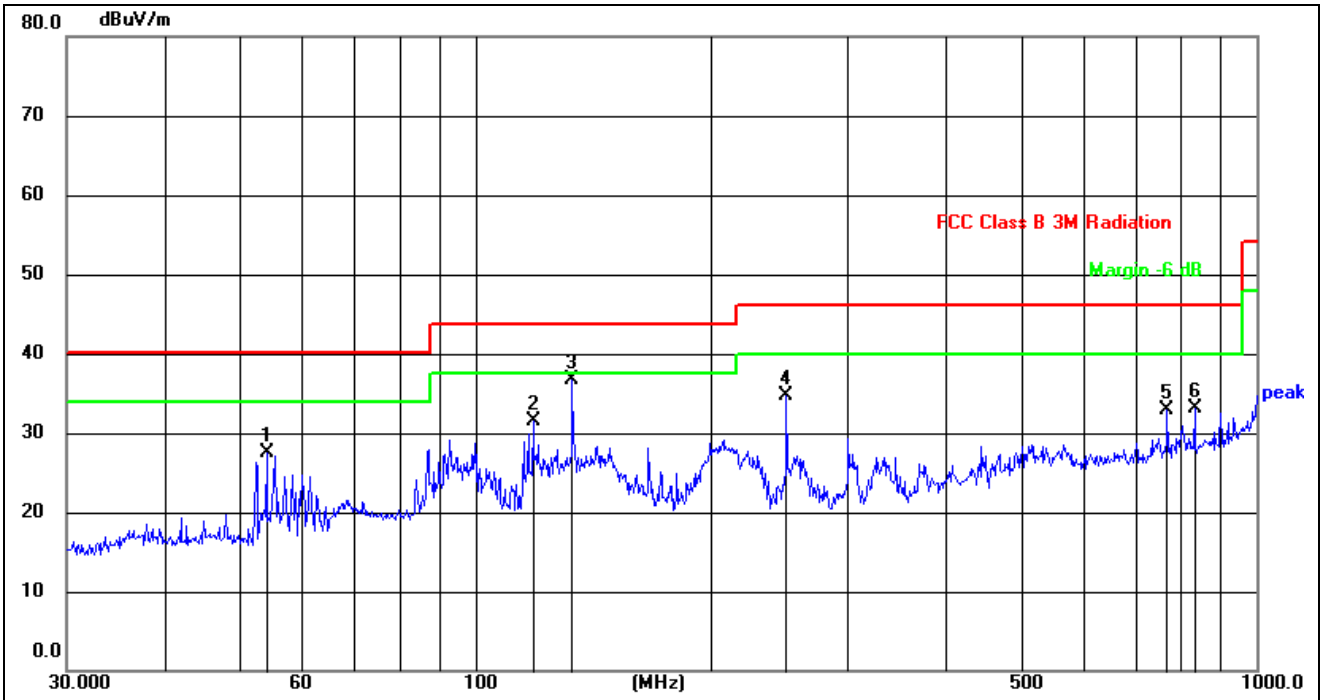
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	53.8817	50.63	-22.10	28.53	40.00	-11.47	QP
2	133.1510	53.06	-22.25	30.81	43.50	-12.69	QP
3	250.3009	57.70	-22.25	35.45	46.00	-10.55	QP
4	724.2607	44.51	-8.63	35.88	46.00	-10.12	QP
5	768.7481	43.23	-7.50	35.73	46.00	-10.27	QP
6	900.1471	43.92	-5.45	38.47	46.00	-7.53	QP

Remarks:

Level =Receiver Reading + Factor

Factor= Antenna Factor + Cable Factor – Preamplifier Factor

Test polarization:	Horizontal	Test voltage:	AC 120V 60Hz
Temp.:	21.7°C	Humid.:	63%RH



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	54.0709	49.63	-22.12	27.51	40.00	-12.49	QP
2	118.6012	54.74	-23.30	31.44	43.50	-12.06	QP
3	133.1510	59.01	-22.25	36.76	43.50	-6.74	QP
4	250.3009	56.97	-22.25	34.72	46.00	-11.28	QP
5	768.7481	40.31	-7.50	32.81	46.00	-13.19	QP
6	833.3170	39.45	-6.35	33.10	46.00	-12.90	QP

Remarks:

Level =Receiver Reading + Factor

Factor= Antenna Factor + Cable Factor – Preamplifier Factor

■ **1GHz-25GHz**

Temp.:	21.7°C	Humid.:	63%RH
Test voltage:	AC 120V 60HZ		

Test mode:	802.11b	Test channel:	lowest

Peak value:

Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4824.00	45.92	-7.66	38.26	74.00	-35.74	Vertical
7236.00	41.91	-1.62	40.29	74.00	-33.71	Vertical
9648.00	42.64	1.27	43.91	74.00	-30.09	Vertical
12060.00	*	--	--	74.00	--	Vertical
14472.00	*	--	--	74.00	--	Vertical
16884.00	*	--	--	74.00	--	Vertical
4824.00	46.38	-7.66	38.72	74.00	-35.28	Horizontal
7236.00	42.13	-1.62	40.51	74.00	-33.49	Horizontal
9648.00	41.94	1.27	43.21	74.00	-30.79	Horizontal
12060.00	*	--		74.00		Horizontal
14472.00	*	--		74.00		Horizontal
16884.00	*	--		74.00		Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4824.00	36.70	-7.66	29.04	54.00	-24.96	Vertical
7236.00	33.20	-1.62	31.58	54.00	-22.42	Vertical
9648.00	33.77	1.27	35.04	54.00	-18.96	Vertical
12060.00	*	--	--	54.00	--	Vertical
14472.00	*	--	--	54.00	--	Vertical
16884.00	*	--	--	54.00	--	Vertical
4824.00	37.61	-7.66	29.95	54.00	-24.05	Horizontal
7236.00	34.10	-1.62	32.48	54.00	-21.52	Horizontal
9648.00	33.15	1.27	34.42	54.00	-19.58	Horizontal
12060.00	*	--		54.00		Horizontal
14472.00	*	--		54.00		Horizontal
16884.00	*	--		54.00		Horizontal

Remark:

1. *Level = Read level + Factor*
2. *Factor =Antenna Factor + Cable Loss – Preamplifier Factor*
3. *"*", means this data is the too weak instrument of signal is unable to test.*
4. *Emissions more than 20 dB below the limit do not need to be reported.*

Test mode:	802.11b	Test channel:	Middle

Peak value:

Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	46.40	-7.58	38.82	74.00	-35.18	Vertical
7311.00	42.70	-1.40	41.30	74.00	-32.70	Vertical
9748.00	42.70	1.20	43.90	74.00	-30.10	Vertical
12185.00	*	--	--	74.00	--	Vertical
14622.00	*	--	--	74.00	--	Vertical
17059.00	*	--	--	74.00	--	Vertical
4874.00	46.20	-7.58	38.62	74.00	-35.38	Horizontal
7311.00	42.20	-1.40	40.80	74.00	-33.20	Horizontal
9748.00	42.73	1.20	43.93	74.00	-30.07	Horizontal
12185.00	*	--		74.00		Horizontal
14622.00	*	--		74.00		Horizontal
17059.00	*	--		74.00		Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	36.91	-7.58	29.33	54.00	-24.67	Vertical
7311.00	33.19	-1.40	31.79	54.00	-22.21	Vertical
9748.00	33.31	1.20	34.51	54.00	-19.49	Vertical
12185.00	*	--	--	54.00	--	Vertical
14622.00	*	--	--	54.00	--	Vertical
17059.00	*	--	--	54.00	--	Vertical
4874.00	37.57	-7.58	29.99	54.00	-24.01	Horizontal
7311.00	34.02	-1.40	32.62	54.00	-21.38	Horizontal
9748.00	33.52	1.20	34.72	54.00	-19.28	Horizontal
12185.00	*	--		54.00		Horizontal
14622.00	*	--		54.00		Horizontal
17059.00	*	--		54.00		Horizontal

Remark:

1. *Level = Read level + Factor*
2. *Factor =Antenna Factor + Cable Loss – Preamplifier Factor*
3. *"*", means this data is the too weak instrument of signal is unable to test.*
4. *Emissions more than 20 dB below the limit do not need to be reported.*

Test mode:	802.11b	Test channel:	Highest

Peak value:

Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4924.00	45.73	-7.49	38.24	74.00	-35.76	Vertical
7386.00	41.89	-1.18	40.71	74.00	-33.29	Vertical
9848.00	42.91	1.12	44.03	74.00	-29.97	Vertical
12310.00	*	--	--	74.00	--	Vertical
14772.00	*	--	--	74.00	--	Vertical
17234.00	*	--	--	74.00	--	Vertical
4924.00	45.28	-7.49	37.79	74.00	-36.21	Horizontal
7386.00	41.43	-1.18	40.25	74.00	-33.75	Horizontal
9848.00	42.16	1.12	43.28	74.00	-30.72	Horizontal
12310.00	*	--	--	74.00	--	Horizontal
14772.00	*	--	--	74.00	--	Horizontal
17234.00	*	--	--	74.00	--	Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4924.00	38.49	-7.49	31.00	54.00	-23.00	Vertical
7386.00	34.94	-1.18	33.76	54.00	-20.24	Vertical
9848.00	35.08	1.12	36.20	54.00	-17.80	Vertical
12310.00	*	--	--	54.00	--	Vertical
14772.00	*	--	--	54.00	--	Vertical
17234.00	*	--	--	54.00	--	Vertical
4924.00	39.23	-7.49	31.74	54.00	-22.26	Horizontal
7386.00	35.70	-1.18	34.52	54.00	-19.48	Horizontal
9848.00	34.22	1.12	35.34	54.00	-18.66	Horizontal
12310.00	*	--	--	54.00	--	Horizontal
14772.00	*	--	--	54.00	--	Horizontal
17234.00	*	--	--	54.00	--	Horizontal

Remark:

1. *Level = Read level + Factor*
2. *Factor =Antenna Factor + Cable Loss – Preamplifier Factor*
3. *"*", means this data is the too weak instrument of signal is unable to test.*
4. *Emissions more than 20 dB below the limit do not need to be reported.*

Test mode:	802.11g	Test channel:	lowest

Peak value:

Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4824.00	48.83	-7.66	41.17	74.00	-32.83	Vertical
7236.00	44.22	-1.62	42.60	74.00	-31.40	Vertical
9648.00	45.75	1.27	47.02	74.00	-26.98	Vertical
12060.00	*	--	--	74.00	--	Vertical
14472.00	*	--	--	74.00	--	Vertical
16884.00	*	--	--	74.00	--	Vertical
4824.00	48.46	-7.66	40.80	74.00	-33.20	Horizontal
7236.00	44.10	-1.62	42.48	74.00	-31.52	Horizontal
9648.00	44.88	1.27	46.15	74.00	-27.85	Horizontal
12060.00	*	--	--	74.00	--	Horizontal
14472.00	*	--	--	74.00	--	Horizontal
16884.00	*	--	--	74.00	--	Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4824.00	39.49	-7.66	31.83	54.00	-22.17	Vertical
7236.00	35.69	-1.62	34.07	54.00	-19.93	Vertical
9648.00	36.07	1.27	37.34	54.00	-16.66	Vertical
12060.00	*	--	--	54.00	--	Vertical
14472.00	*	--	--	54.00	--	Vertical
16884.00	*	--	--	54.00	--	Vertical
4824.00	40.16	-7.66	32.50	54.00	-21.50	Horizontal
7236.00	36.27	-1.62	34.65	54.00	-19.35	Horizontal
9648.00	35.45	1.27	36.72	54.00	-17.28	Horizontal
12060.00	*	--	--	54.00	--	Horizontal
14472.00	*	--	--	54.00	--	Horizontal
16884.00	*	--	--	54.00	--	Horizontal

Remark:

1. *Level = Read level + Factor*
2. *Factor =Antenna Factor + Cable Loss – Preamplifier Factor*
3. *"*", means this data is the too weak instrument of signal is unable to test.*
4. *Emissions more than 20 dB below the limit do not need to be reported.*

Test mode:	802.11g	Test channel:	Middle

Peak value:

Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	48.72	-7.58	41.14	74.00	-32.86	Vertical
7311.00	48.05	-1.40	46.65	74.00	-27.35	Vertical
9748.00	45.49	1.20	46.69	74.00	-27.31	Vertical
12185.00	*	--	--	74.00	--	Vertical
14622.00	*	--	--	74.00	--	Vertical
17059.00	*	--	--	74.00	--	Vertical
4874.00	48.30	-7.58	40.72	74.00	-33.28	Horizontal
7311.00	44.74	-1.40	43.34	74.00	-30.66	Horizontal
9748.00	42.73	1.20	43.93	74.00	-30.07	Horizontal
12185.00	*	--	--	74.00	--	Horizontal
14622.00	*	--	--	74.00	--	Horizontal
17059.00	*	--	--	74.00	--	Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	40.19	-7.58	32.61	54.00	-21.39	Vertical
7311.00	36.81	-1.40	35.41	54.00	-18.59	Vertical
9748.00	36.02	1.20	37.22	54.00	-16.78	Vertical
12185.00	*	--	--	54.00	--	Vertical
14622.00	*	--	--	54.00	--	Vertical
17059.00	*	--	--	54.00	--	Vertical
4874.00	39.81	-7.58	32.23	54.00	-21.77	Horizontal
7311.00	35.34	-1.40	33.94	54.00	-20.06	Horizontal
9748.00	35.23	1.20	36.43	54.00	-17.57	Horizontal
12185.00	*	--	--	54.00	--	Horizontal
14622.00	*	--	--	54.00	--	Horizontal
17059.00	*	--	--	54.00	--	Horizontal

Remark:

1. *Level = Read level + Factor*
2. *Factor =Antenna Factor + Cable Loss – Preamplifier Factor*
3. *"*", means this data is the too weak instrument of signal is unable to test.*
4. *Emissions more than 20 dB below the limit do not need to be reported.*

Test mode:	802.11g	Test channel:	Highest

Peak value:

Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4924.00	47.98	-7.49	40.49	74.00	-33.51	Vertical
7386.00	44.58	-1.18	43.40	74.00	-30.60	Vertical
9848.00	45.87	1.12	46.99	74.00	-27.01	Vertical
12310.00	*	--	--	74.00	--	Vertical
14772.00	*	--	--	74.00	--	Vertical
17234.00	*	--	--	74.00	--	Vertical
4924.00	49.22	-7.49	41.73	74.00	-32.27	Horizontal
7386.00	46.84	-1.18	45.66	74.00	-28.34	Horizontal
9848.00	45.39	1.12	46.51	74.00	-27.49	Horizontal
12310.00	*	--	--	74.00	--	Horizontal
14772.00	*	--	--	74.00	--	Horizontal
17234.00	*	--	--	74.00	--	Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4924.00	39.48	-7.49	31.99	54.00	-22.01	Vertical
7386.00	36.96	-1.18	35.78	54.00	-18.22	Vertical
9848.00	35.63	1.12	36.75	54.00	-17.25	Vertical
12310.00	*	--	--	54.00	--	Vertical
14772.00	*	--	--	54.00	--	Vertical
17234.00	*	--	--	54.00	--	Vertical
4924.00	40.20	-7.49	32.71	54.00	-21.29	Horizontal
7386.00	36.72	-1.18	35.54	54.00	-18.46	Horizontal
9848.00	35.02	1.12	36.14	54.00	-17.86	Horizontal
12310.00	*	--	--	54.00	--	Horizontal
14772.00	*	--	--	54.00	--	Horizontal
17234.00	*	--	--	54.00	--	Horizontal

Remark:

1. *Level = Read level + Factor*
2. *Factor =Antenna Factor + Cable Loss – Preamplifier Factor*
3. *"*", means this data is the too weak instrument of signal is unable to test.*
4. *Emissions more than 20 dB below the limit do not need to be reported.*

Test mode:	802.11n20	Test channel:	Lowest

Peak value:

Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4824.00	49.79	-7.66	42.13	74.00	-31.87	Vertical
7236.00	44.82	-1.62	43.20	74.00	-30.80	Vertical
9648.00	45.53	1.27	46.80	74.00	-27.20	Vertical
12060.00	*	--	--	74.00	--	Vertical
14472.00	*	--	--	74.00	--	Vertical
16884.00	*	--	--	74.00	--	Vertical
4824.00	48.48	-7.66	40.82	74.00	-33.18	Horizontal
7236.00	44.92	-1.62	43.30	74.00	-30.70	Horizontal
9648.00	44.33	1.27	45.60	74.00	-28.40	Horizontal
12060.00	*	--	--	74.00	--	Horizontal
14472.00	*	--	--	74.00	--	Horizontal
16884.00	*	--	--	74.00	--	Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4824.00	39.61	-7.66	31.95	54.00	-22.05	Vertical
7236.00	35.82	-1.62	34.20	54.00	-19.80	Vertical
9648.00	35.25	1.27	36.52	54.00	-17.48	Vertical
12060.00	*	--	--	54.00	--	Vertical
14472.00	*	--	--	54.00	--	Vertical
16884.00	*	--	--	54.00	--	Vertical
4824.00	40.35	-7.66	32.69	54.00	-21.31	Horizontal
7236.00	36.49	-1.62	34.87	54.00	-19.13	Horizontal
9648.00	35.07	1.27	36.34	54.00	-17.66	Horizontal
12060.00	*	--	--	54.00	--	Horizontal
14472.00	*	--	--	54.00	--	Horizontal
16884.00	*	--	--	54.00	--	Horizontal

Remark:

1. *Level = Read level + Factor*
2. *Factor =Antenna Factor + Cable Loss – Preamplifier Factor*
3. *"*", means this data is the too weak instrument of signal is unable to test.*
4. *Emissions more than 20 dB below the limit do not need to be reported.*

Test mode:	802.11n20	Test channel:	Middle

Peak value:

Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	48.77	-7.58	41.19	74.00	-32.81	Vertical
7311.00	47.85	-1.40	46.45	74.00	-27.55	Vertical
9748.00	45.16	1.20	46.36	74.00	-27.64	Vertical
12185.00	*	--	--	74.00	--	Vertical
14622.00	*	--	--	74.00	--	Vertical
17059.00	*	--	--	74.00	--	Vertical
4874.00	49.79	-7.58	42.21	74.00	-31.79	Horizontal
7311.00	44.06	-1.40	42.66	74.00	-31.34	Horizontal
9748.00	45.58	1.20	46.78	74.00	-27.22	Horizontal
12185.00		--	--	74.00	--	Horizontal
14622.00	*	--	--	74.00	--	Horizontal
17059.00	*	--	--	74.00	--	Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	39.91	-7.58	32.33	54.00	-21.67	Vertical
7311.00	37.65	-1.40	36.25	54.00	-17.75	Vertical
9748.00	35.71	1.20	36.91	54.00	-17.09	Vertical
12185.00	*	--	--	54.00	--	Vertical
14622.00	*	--	--	54.00	--	Vertical
17059.00	*	--	--	54.00	--	Vertical
4874.00	40.29	-7.58	32.71	54.00	-21.29	Horizontal
7311.00	37.10	-1.40	35.70	54.00	-18.30	Horizontal
9748.00	35.33	1.20	36.53	54.00	-17.47	Horizontal
12185.00	*	--	--	54.00	--	Horizontal
14622.00	*	--	--	54.00	--	Horizontal
17059.00	*	--	--	54.00	--	Horizontal

Remark:

1. *Level = Read level + Factor*
2. *Factor =Antenna Factor + Cable Loss – Preamplifier Factor*
3. *"*", means this data is the too weak instrument of signal is unable to test.*
4. *Emissions more than 20 dB below the limit do not need to be reported.*

Test mode:	802.11n20	Test channel:	Highest

Peak value:

Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4924.00	48.90	-7.49	41.41	74.00	-32.59	Vertical
7386.00	43.84	-1.18	42.66	74.00	-31.34	Vertical
9848.00	44.84	1.12	45.96	74.00	-28.04	Vertical
12310.00	*	--	--	74.00	--	Vertical
14772.00	*	--	--	74.00	--	Vertical
17234.00	*	--	--	74.00	--	Vertical
4924.00	48.99	-7.49	41.50	74.00	-32.50	Horizontal
7386.00	47.59	-1.18	46.41	74.00	-27.59	Horizontal
9848.00	44.32	1.12	45.44	74.00	-28.56	Horizontal
12310.00	*	--	--	74.00	--	Horizontal
14772.00	*	--	--	74.00	--	Horizontal
17234.00	*	--	--	74.00	--	Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4924.00	38.23	-7.49	30.74	54.00	-23.26	Vertical
7386.00	34.23	-1.18	33.05	54.00	-20.95	Vertical
9848.00	33.75	1.12	34.87	54.00	-19.13	Vertical
12310.00	*	--	--	54.00	--	Vertical
14772.00	*	--	--	54.00	--	Vertical
17234.00	*	--	--	54.00	--	Vertical
4924.00	39.03	-7.49	31.54	54.00	-22.46	Horizontal
7386.00	36.59	-1.18	35.41	54.00	-18.59	Horizontal
9848.00	33.87	1.12	34.99	54.00	-19.01	Horizontal
12310.00	*	--	--	54.00	--	Horizontal
14772.00	*	--	--	54.00	--	Horizontal
17234.00	*	--	--	54.00	--	Horizontal

Remark:

1. *Level = Read level + Factor*
2. *Factor =Antenna Factor + Cable Loss – Preamplifier Factor*
3. *"*", means this data is the too weak instrument of signal is unable to test.*
4. *Emissions more than 20 dB below the limit do not need to be reported.*

Test mode:	802.11n40	Test channel:	Lowest

Peak value:

Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4844.00	47.31	-7.63	39.68	74.00	-34.32	Vertical
7266.00	43.64	-1.53	42.11	74.00	-31.89	Vertical
9688.00	41.96	1.24	43.20	74.00	-30.80	Vertical
12060.00	*	--	--	74.00	--	Vertical
14472.00	*	--	--	74.00	--	Vertical
16884.00	*	--	--	74.00	--	Vertical
4844.00	45.65	-7.63	38.02	74.00	-35.98	Horizontal
7266.00	42.59	-1.53	41.06	74.00	-32.94	Horizontal
9688.00	49.97	1.24	51.21	74.00	-22.79	Horizontal
12060.00	*	--	--	74.00	--	Horizontal
14472.00	*	--	--	74.00	--	Horizontal
16884.00	*	--	--	74.00	--	Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4844.00	37.53	-7.63	29.90	54.00	-24.10	Vertical
7266.00	34.48	-1.53	32.95	54.00	-21.05	Vertical
9688.00	32.99	1.24	34.23	54.00	-19.77	Vertical
12060.00	*	--		54.00		Vertical
14472.00	*	--		54.00		Vertical
16884.00	*	--		54.00		Vertical
4844.00	38.11	-7.63	30.48	54.00	-23.52	Horizontal
7266.00	35.00	-1.53	33.47	54.00	-20.53	Horizontal
9688.00	34.65	1.24	35.89	54.00	-18.11	Horizontal
12060.00	*	--		54.00		Horizontal
14472.00	*	--		54.00		Horizontal
16884.00	*	--		54.00		Horizontal

Remark:

1. *Level = Read level + Factor*
2. *Factor =Antenna Factor + Cable Loss – Preamplifier Factor*
3. *"*", means this data is the too weak instrument of signal is unable to test.*
4. *Emissions more than 20 dB below the limit do not need to be reported.*

Test mode:	802.11n40	Test channel:	Middle

Peak value:

Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	47.53	-7.58	39.95	74.00	-34.05	Vertical
7311.00	46.55	-1.40	45.15	74.00	-28.85	Vertical
9748.00	43.79	1.20	44.99	74.00	-29.01	Vertical
12185.00	*	--	--	74.00	--	Vertical
14622.00	*	--	--	74.00	--	Vertical
17059.00	*	--	--	74.00	--	Vertical
4874.00	48.70	-7.58	41.12	74.00	-32.88	Horizontal
7311.00	43.79	-1.40	42.39	74.00	-31.61	Horizontal
9748.00	43.65	1.20	44.85	74.00	-29.15	Horizontal
12185.00	*	--	--	74.00	--	Horizontal
14622.00	*	--	--	74.00	--	Horizontal
17059.00	*	--	--	74.00	--	Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	38.98	-7.58	31.40	54.00	-22.60	Vertical
7311.00	36.58	-1.40	35.18	54.00	-18.82	Vertical
9748.00	34.33	1.20	35.53	54.00	-18.47	Vertical
12185.00	*	--	--	54.00	--	Vertical
14622.00	*	--	--	54.00	--	Vertical
17059.00	*	--	--	54.00	--	Vertical
4874.00	39.62	-7.58	32.04	54.00	-21.96	Horizontal
7311.00	36.26	-1.40	34.86	54.00	-19.14	Horizontal
9748.00	33.36	1.20	34.56	54.00	-19.44	Horizontal
12185.00	*	--	--	54.00	--	Horizontal
14622.00	*	--	--	54.00	--	Horizontal
17059.00	*	--	--	54.00	--	Horizontal

Remark:

1. *Level = Read level + Factor*
2. *Factor =Antenna Factor + Cable Loss – Preamplifier Factor*
3. *"*", means this data is the too weak instrument of signal is unable to test.*
4. *Emissions more than 20 dB below the limit do not need to be reported.*

Test mode:	802.11n40	Test channel:	Highest

Peak value:

Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4904.00	47.29	-7.52	39.77	74.00	-34.23	Vertical
7356.00	43.20	-1.26	41.94	74.00	-32.06	Vertical
9808.00	44.95	1.16	46.11	74.00	-27.89	Vertical
12310.00	*	--	--	74.00	--	Vertical
14772.00	*	--	--	74.00	--	Vertical
17234.00	*	--	--	74.00	--	Vertical
4904.00	47.55	-7.52	40.03	74.00	-33.97	Horizontal
7356.00	46.20	-1.26	44.94	74.00	-29.06	Horizontal
9808.00	43.82	1.16	44.98	74.00	-29.02	Horizontal
12310.00	*	--	--	74.00	--	Horizontal
14772.00	*	--	--	74.00	--	Horizontal
17234.00	*	--	--	74.00	--	Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4904.00	38.36	-7.52	30.84	54.00	-23.16	Vertical
7356.00	35.24	-1.26	33.98	54.00	-20.02	Vertical
9808.00	34.13	1.16	35.29	54.00	-18.71	Vertical
12310.00	*	--	--	54.00	--	Vertical
14772.00	*	--	--	54.00	--	Vertical
17234.00	*	--	--	54.00	--	Vertical
4904.00	39.15	-7.52	31.63	54.00	-22.37	Horizontal
7356.00	36.07	-1.26	34.81	54.00	-19.19	Horizontal
9808.00	34.24	1.16	35.40	54.00	-18.60	Horizontal
12310.00	*	--	--	54.00	--	Horizontal
14772.00	*	--	--	54.00	--	Horizontal
17234.00	*	--	--	54.00	--	Horizontal

Remark:

1. *Level = Read level + Factor*
2. *Factor =Antenna Factor + Cable Loss – Preamplifier Factor*
3. *"*", means this data is the too weak instrument of signal is unable to test.*
4. *Emissions more than 20 dB below the limit do not need to be reported.*

5. Test Setup Photo

Reference to the file No.: ET-26052435SP for details.

6. EUT Constructional Details

Reference to the file No.: ET-26052435EP and ET-26052435IP for details.

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