



RF TEST REPORT

Product Name: WB WIFI

Model Number: WB, WB01, WB02, WB03, WB04, WB05, WB06, WB07, WB08, WB09, WB10, WB11, WB12, WB13, WB14, WB15, WB16, WB17, WB18, WB19

Issued For : AMIHAKU CO., LTD

6-5-1 SHINJYUKU I-LAND TOWER 2F NISHISHINJYUKU
SHINJUKU-KU TOKYO 163-1302 JAPAN

Issued By : Shenzhen LGT Test Service Co., Ltd.

Room 205, Building 13, Zone B, Zhenxiong Industrial Park,
No.177, Renmin West Road, Jinsha, Kengzi Street, Pingshan
District, Shenzhen, Guangdong, China

Report Number: LGT25I062RF01

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Shenzhen LGT Test Service Co., Ltd. Tel: 0755-89668180 E-mail: lgt@lgt-cert.com Web: www.lgt-cert.com
Room 205, Building 13, Zone B, Zhenxiong Industrial Park, No.177, Renmin West Road, Jinsha, Kengzi Street, Pingshan District,
Shenzhen, Guangdong, China



TEST REPORT CERTIFICATION

Applicant: AMIHAKU CO., LTD

Address: 6-5-1 SHINJYUKU I-LAND TOWER 2F NISHISHINJYUKU
SHINJUKU-KU TOKYO 163-1302 JAPAN

Manufacturer: Zhongyi (Shenzhen) Information Technology Co., Ltd

Address: Room 301, 3rd Floor, Building 18, Guangqian Industrial Zone, Longzhu
3rd Road, Longguang Community, Taoyuan Street, Nanshan District,
Shenzhen

Product Name: WB WIFI

Trademark: WB TELECOM

Model Number: WB, WB01, WB02, WB03, WB04, WB05, WB06, WB07, WB08, WB09,
WB10, WB11, WB12, WB13, WB14, WB15, WB16, WB17, WB18, WB19

Sample Status: Normal

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
Article 2 Paragraph 1 of Item 19, annex 43 and annex 1& Notification No.88	PASS

Prepared by:

Zane Shan

Zane Shan
Engineer

Approved by:

Vita Li

Vita Li
Technical Director





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Revision History

Rev.	Issue Date	Contents
00	Nov. 24, 2025	Initial Issue



1. SUMMARY OF THE TEST RESULTS

Test procedures according to the technical standards: annex 43 of Notification No.88.

Rule Section	Description of Test	Judgement
3.2	Frequency Error	PASS
3.2	Occupied Bandwidth (99%), Spread-spectrum Bandwidth (90%)	PASS
3.2	Unwanted Emission Intensity	PASS
3.2	Power Error	PASS
3.3	Limitation of Collateral Emission of Receiver	PASS
3.6	Transmission Radiation power	PASS
3.2	Transmission Radiation Angle Width (3dB Beamwidth)	N/A
3.4	Radio Interference Prevention Capability	PASS
3.2	Spreading Factor	PASS
Note (2)	Carrier Sense Capability	PASS
3.7 Note (4)	Construction Protection Confirmation	PASS

Note:

- (1) "N/A" denotes test is not applicable in this Test Report.
- (2) Article 2 Paragraph 1 of Item 19.
- (3) This device has more than 1 subcarrier in 1MHz, compliances with the requirement.
- (4) Please refer to Japan Radio Protection Declaration.



1.1 TEST LABORATORY

Company Name:	Shenzhen LGT Test Service Co., Ltd.
Address:	Room 205, Building 13, Zone B, Zhenxiong Industrial Park, No.177, Renmin West Road, Jinsha, Kengzi Street, Pingshan District, Shenzhen, Guangdong, China

1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U$, where expanded 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	Uncertainty
1	RF output power, conducted	$\pm 0.71\text{dB}$
2	Unwanted Emissions, conducted	$\pm 2.80\text{dB}$
3	Frequency tolerance	$\pm 0.02\text{ppm}$

Note: The measurement uncertainty is not included in the test result.



2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF THE EUT

Product Name:	WB WIFI	
Test Model Number:	WB	
Series Number:	WB01, WB02, WB03, WB04, WB05, WB06, WB07, WB08, WB09, WB10, WB11, WB12, WB13, WB14, WB15, WB16, WB17, WB18, WB19	
Model Difference:	The model is the same, but the appearance is different.	
Product Description:	Operation Frequency:	802.11b/g/n/ax20: 2412~2472 MHz 802.11n/ax(40MHz):2422~2462MHz
	Modulation Type:	802.11b(DSSS): CCK, DQPSK, DBPSK 802.11g(OFDM): BPSK, QPSK, 16-QAM, 64-QAM 802.11n(OFDM): BPSK, QPSK, 16-QAM, 64-QAM 802.11ax (OFDM, OFDM): BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM, 1024QAM
	Bit Rate of Transmitter:	802.11b:11/5.5/2/1 Mbps 802.11g:54/48/36/24/18/12/9/6Mbps 802.11n/ax(20MHz): MCS7~MCS0: 65/58.5/52/39/26/19.5/13/6.5Mbps 802.11n/ax(40MHz): MCS7~MCS0: 135/121.5/108/81/54/40.5/27/13.5Mbps
	Number Of Channel:	802.11b/g/n/ax20: 13CH 802.11n/ax40: 9CH
	Antenna Designation:	Monopole Antenna
	AntennaGain(dBi):	1.29
	Duty Cycle:	>98%
	Based on the application, features, or specification exhibited in User Manual, the EUT is considered as an ITE/Computing Device. More details of EUT technical specification, please refer to the User Manual.	
Channel List:	Please refer to the Note 3.	
Rating:	Input: DC 5V 2A	
Battery:	Capacity: 10000mA Rated Voltage: 3.85V	
Hardware Version:	UIS8310 1-core, A7 1GHz	
Software Version:	N/A	
Connecting I/O Port(s):	Please refer to the Note 1.	

Note:

1.For a more detailed features description, please refer to the manufacturer's specifications or the User Manual.

2.The antenna information refers to the manufacturer provide report, applicable only to the tested sample identified in the report. Due to the incorrect antenna information, a series of problems such as the accuracy of the test results will be borne by the customer.



3. Operation Frequency of channel

802.11b/g/n/ax(20MHz)		Channel List for 802.11n/ax(40MHz)	
Channel	Frequency	Channel	Frequency
01	2412	03	2422
02	2417	04	2427
03	2422	05	2432
04	2427	06	2437
05	2432	07	2442
06	2437	08	2447
07	2442	09	2452
08	2447	10	2457
09	2452	11	2462
10	2457		
11	2462		
12	2467		
13	2472		

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:

For 802.11b/g/n/ax(HT20)		For 802.11n/ax(HT40)	
Channel	Freq. (MHz)	Channel	Freq. (MHz)
01	2412	03	2422
07	2442	07	2442
13	2472	11	2462



2.2 DESCRIPTION OF THE TEST MODES

Pretest Mode	Description	Data Rate
Mode 1	TX IEEE 802.11b CH1	1 Mbps
Mode 2	TX IEEE 802.11b CH7	1 Mbps
Mode 3	TX IEEE 802.11 b CH13	1 Mbps
Mode 4	TX IEEE 802.11g CH1	6 Mbps
Mode 5	TX IEEE 802.11g CH7	6 Mbps
Mode 6	TX IEEE 802.11g CH13	6 Mbps
Mode 7	TX IEEE 802.11n/ax HT20 CH1	MCS 0
Mode 8	TX IEEE 802.11n/ax HT20 CH7	MCS 0
Mode 9	TX IEEE 802.11n/ax HT20 CH13	MCS 0
Mode 10	TX IEEE 802.11n/ax HT40 CH3	MCS 0
Mode 11	TX IEEE 802.11n/ax HT40 CH7	MCS 0
Mode 12	TX IEEE 802.11n/ax HT40 CH11	MCS 0

2.3 TABLE FOR PARAMETERS OF THE TEST SOFTWARE SETTING

Type	Mode Or Modulation type	ANT Gain(dBi)	Power Class	Software For Testing
2.4G WIFI	802.11b	1.29	16	sscom_5.13.1
	802.11g		16	
	802.11n(HT20)		14	
	802.11n(HT40)		14	
	802.11ax(HT20)		14	
	802.11ax(HT40)		14	



2.4 TEST CONDITIONS

The WIFI module was tested while in a continuous transmitter/receiver mode.

The EUT was tuned to a low, middle, and high channel for all tests. For all test case pre/scans were completed in all Modes to determine worst case levels.

Power Supply Voltage Fluctuation Test

Voltage Fluctuation Test	Normal Voltage	High Voltage +10% of Normal Voltage	Low Voltage -10% of Normal Voltage
Input DC Power(V)	3.85	4.235	3.465
RF Chip Input DC Power(V)	3.300	3.305	3.280
Voltage Variation (%)	/	0.15	-0.61

Note: 1. Voltage Variation (%)

= (RF chip Input high or Low Voltage - RF chip Input Normal Voltage) / RF chip Input Normal Voltage * 100

2. RF chip Input DC power fluctuation is verified at the power input PIN of the RF chip.

When the input supply voltage to the EUT from the external power source is varied by +/- 10%, the output voltage had been confirmed that the fluctuation of power supply to the RF circuit of EUT (excluding power source) is equal to or less than +/-1%, and the DC power fluctuation at the power input PIN of the RF chip is equal to or less than +/-1%. Exempt extremely high and low supply voltage condition tests, EUT only operated in normal voltage to test all regulations.

2.5 TEST ENVIRONMENTAL

During the measurement the environmental conditions:

Normal Temperature: 24.5°C

Relative Humidity: 53 %

Air Pressure: 989 hPa



2.6 DESCRIPTION OF NECESSARY ACCESSORIES AND 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.

Necessary accessories

Item	Equipment	Mfr/Brand	Model/Type No.	Length	Note
N/A	N/A	N/A	N/A	N/A	N/A

Support units

Item	Equipment	Mfr/Brand	Model/Type No.	Length	Note
N/A	N/A	N/A	N/A	N/A	N/A

Note:

(1) For detachable type I/O cable should be specified the length in cm in 『Length』 column.



2.7 EQUIPMENTS LIST FOR ALL TEST ITEMS

Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Until	Classification
Signal Analyzer	Keysight	N9010B	MY60242508	2025.03.05	2026.03.04	(c)
Signal Analyzer	Keysight	N9020A	MY50530994	2025.03.05	2026.03.04	(c)
Power Sensor	R&S	NRP8S	104963	2025.03.06	2026.03.05	(c)
RF Automatic Test system	MW	MW100-RF CB	MW220324LG-33	2025.03.06	2026.03.05	(c)
MXG Vector Signal Generator	Keysight	N5182B	MY59100717	2025.03.05	2026.03.04	(c)
Temperature& Humidity test chamber	AISRY	LX-1000L	171200018	2025.07.30	2026.07.29	(c)
Attenuator	eastsheep	90db	N.A	2025.03.06	2026.03.05	(c)
Temperature & Humidity	JINGCHUANG	BT-3	N.A	2025.03.10	2026.03.09	(c)
Digital multimeter	MASTECH	MS8261	MBGBC83053	2025.03.05	2026.03.04	(c)
DC source	Keysight	E3634A	MY58036468	2025.03.06	2026.03.05	(c)
Testing Software	MTS8310_V2.0.0.0_MW					

Remark:

(a) Calibration conducted by the National institute of Information and Communications Technology (NICT) in Japan (hereinafter referred to as "NICT") or a designated calibration agency under Article 102-18 paragraph(1) in JRL.

(b) Correction conducted pursuant to the provisions of Article 135 or Article 144 of the Measurement Act (ActNo. 51 of 1992).

(c) Calibration conducted in countries except Japan, which shall be equivalent to the calibration conducted by the NICT or a designated calibration agency under Article 102-18 paragraph (1).

(d) Calibration, etc. conducted by using measuring instruments and other equipment listed in the right column of appended table No. 3, which shall have been given any type of calibration, etc. listed above from (a) to (c)

From JRL Article 24-2, paragraph 4, Item 2

Notice: Calibration duration for above equipments is 1 year.

Test Equipment Calibration

All of the test equipment is effective use and calibration certification institution, LISAI, the address is No.8.South Street Shi li institute Guangzhou.Guangdong.China



3. FREQUENCY ERROR

3.1 LIMIT

Item	Limits
Frequency Error	$\pm 50\text{ppm}$

3.2 TEST PROCEDURES

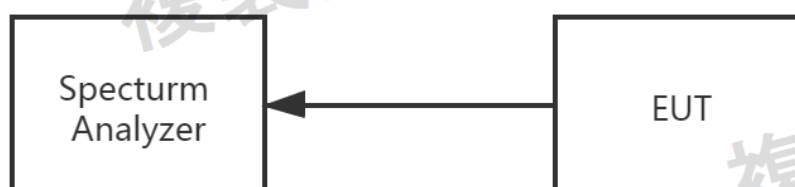
The following table is the setting of Spectrum Analyzer.

Spectrum Parameter	Setting
Attenuation	Auto
RBW / VBW	10KHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

- (1) In the case of unmodulated signal (continuous or continuous burst), measure the frequency directly by a frequency meter.
- (2) In the case of burst waves, the measurement shall be done for enough time in order to obtain the enough measuring accuracy, and the average of the measured values becomes the final value.
- (3) In the case of a test mode with a specific frequency spectrum, measure the frequency of the specific spectrum by a spectrum analyzer.
- (4) In the cases above, if the frequency equivalent to the test frequency is not directly measured in principle, it shall be obtained by necessary calculation.

In the case of modulated signal, if there is no specific spectrum measurable by a spectrum analyzer but a specific dip is observed, it is allowed to measure the frequency with the signal generator (synthesized). That is, observe a signal of the signal generator concurrently (or alternately) with the tested signal using the spectrum analyzer while setting the frequency of the signal generator to the position of the dip on the screen of the spectrum analyzer, and determine the frequency of the signal generator at the time as a measured value.

3.3 TEST SETUP



3.4 TEST RESULT

For the measurement records, refer to the appendix I.



4. ANTENNA POWER

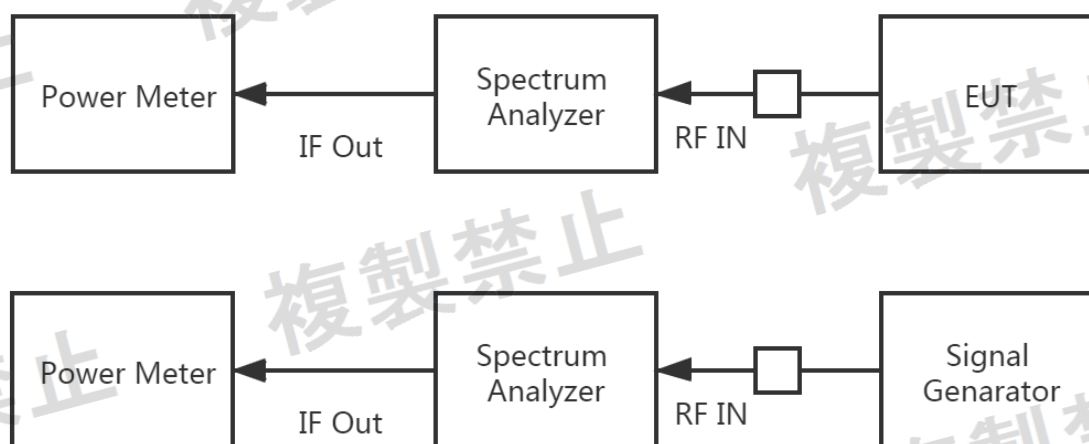
4.1 LIMIT

Item	Limits
Antenna PowerDensity	$\leq 3\text{mW/MHz}$ (FH from 2400 – 2483.5 MHz) $\leq 10\text{mW/MHz}$ (OFDM, DS from 2400~2483.5MHz, 802.11b/g/n HT20) $\leq 5\text{mW/MHz}$ (OFDM, DS from 2400~2483.5MHz, 802.11n HT40) $\leq 10\text{mW}$ (Other from 2400~2483.5MHz)
Power Error	+20%, -80% (Base on manufacturer declare power)

4.2 TEST PROCEDURE

1. A power meter is connected on the IF output port of the spectrum analyzer.
2. EUT turn to test frequency channel and keep continuous transmitting.
3. Connected the equipment to be measured. Using the following settings of the spectrum analyzer in combination with "max hold" function, find the frequency of highest power output in the power envelope: center frequency equal to operation frequency; RBW & VBW: 1 MHz; detector mode: positive peak; averGauging: off; span: 3 times the spectrum width; amplitude: adjust for middle of the instrument' range.
4. Reading the output power from the Power meter as P_{EUT} .
5. Turn the Signal generator to frequency channel the same as the EUT.
6. Using the following settings of the spectrum analyzer in combination with "max hold" function, find the frequency of highest power output in the power envelope: center frequency equal to operation frequency; RBW & VBW: 1 MHz; detector mode: positive peak; averGauging: off; span: 3 times the spectrum width; amplitude: adjust for middle of the instrument' range.
7. Turn the level of Signal generator, scan with the power meter until the power equal to P_{EUT} , the level of Signal generator recorded as "P".
8. The antenna power of EUT is "P".
9. EIRP power="P"+antenna gain.

4.3 TEST SETUP



4.4 TEST DEVIATION

There is no deviation with the original standard.

4.5 TEST RESULT

For the measurement records, refer to the appendix I.



5. EIRP POWER

5.1 LIMIT

Item	Limits
Radiation powerEIRP	FH form 2400 – 2483.5MHz,EIRP $\leq$ 6.91dBm/MHz CCK/OFDM/DBPSK (2400~2483.5MHz) OFDM or DS other than (802.11b/g/n HT20) EIRP $\leq$ 12.14 dBm/MHz OFDM or DS other than (802.11n HT40) EIRP $\leq$ 9.13dBm/MHz Other from 2400~2483.5MHz: 12.14 dBm or less

5.2 TEST RESULT

For the measurement records, refer to the appendix I.



6. OCCUPIED BANDWIDTH AND SPREADING BANDWIDTH

6.1 LIMIT

Item	Limits
Occupied Band Width:	83.5MHz for FHSS; 26MHz for DSSS and OFDM; 26 ~ 40MHz for OFDM(HT40)
Spreading Bandwidth:	≥ 500 kHz (FH, DS)

6.2 TEST PROCEDURES

1. EUT have transmitted the maximum modulation signal and fixed channelize (For DSSS or OFDM Device) or continuous maximum power of hopping mode (For FHSS Device).
SA set to 99% of occupied bandwidth to measure occupied bandwidth. The limit is less than 26MHz (For DSSS or OFDM Device), 83.5MHz (For FHSS Device) or 38MHz (For OFDM (HT 40)).
2. SA set to 90% of occupied bandwidth to measure Spread Spectrum Bandwidth and must greater than 500kHz.

6.3 TEST SETUP



6.4 TEST DEVIATION

There is no deviation with the original standard.

6.6 TEST RESULT

For the measurement records, refer to the appendix I.



7. UNWANTED EMISSION INTENSITY MEASUREMENT

7.1 LIMIT

Item	Limits
TX Spurious Emission	$\leq 2.5 \text{ mW/MHz}$ ($30\text{MHz} \leq f \leq 1000\text{MHz}$)
	$\leq 2.5 \text{ }\mu\text{W/MHz}$ ($1000\text{MHz} < f \leq 2387\text{MHz}$)
	$\leq 25 \text{ }\mu\text{W/MHz}$ ($2387\text{MHz} < f \leq 2400\text{MHz}$)
	$\leq 25 \text{ }\mu\text{W/MHz}$ ($2483.5\text{MHz} \leq f < 2496.5\text{MHz}$)
	$\leq 2.5 \text{ }\mu\text{W/MHz}$ ($2496.5\text{MHz} \leq f < 12500\text{MHz}$)

7.2 TEST PROCEDURES

The following table is the setting of Spectrum Analyzer.

Spectrum Parameter	Setting
Attenuation	Auto
RBW / VBW	100KHz / 100KHz (Below 1GHz)
RBW / VBW	1MHz / 1MHz (Above 1GHz)
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

1. EUT have transmitted the maximum modulation signal and fixed channelize.
2. Setting of SA is following as: Below 1GHz RB: 100KHz / VB: 100KHz, Above 1GHz RB: 1MHz / VB: 1MHz / AT: 10dB Ref: 0dBm / Sweep time: Auto / Sweep Mode: Continuous sweep / Detect mode: Positive peak / Trace mode: Max hold
3. Setting of SA is following as 30MHz and stop frequency 1000MHz, then to mark peak reading value + cable loss shall be less than 2.5 μ W.
4. Setting of SA is following as 1000MHz and stop frequency 2387MHz, then to mark peak reading value + cable loss shall be less than 2.5 μ W.
5. SA adjusted to start frequency 2387MHz and stop frequency 2400MHz, then to mark peak reading value + cable loss shall be less than 25 μ W.
6. SA adjusted to start frequency 2483.5MHz and stop frequency 2496.5MHz, then to mark peak reading value + cable loss shall be less than 25 μ W
7. SA adjusted to start frequency 2496.5MHz and stop frequency 12750MHz, then to mark peak reading value + cable loss shall be less than 2.5 μ W
8. When we tested 30MHz-1GHz, we used the RB 100KHz setting for the test. The limit on the test chart was converted. The conversion formula: $-26\text{dBm} + 10 \cdot \log(100\text{K}/1\text{M}) = -36\text{dBm}$.
9. If the Result_Value is over the requirement, take total sum of 1MHz band centered at the spur frequency like ACLP measurement as Result_Value.



7.3 TEST SETUP



7.4 TEST DEVIATION

There is no deviation with the original standard.

7.5 TEST RESULT

For the measurement records, refer to the appendix I.



8. IMITATION OF COLLATERAL EMISSION OF RECEIVER MEASUREMENT

8.1 LIMIT

Item	Limits
RX Spurious Emission:	$\leq 4\text{nW}$ ($f < 1\text{GHz}$)
	$\leq 20\text{nW}$ ($1\text{GHz} \leq f$)

8.2 TEST PROCEDURES

The following table is the setting of Spectrum Analyzer.

Spectrum Parameter	Setting
Attenuation	Auto
RBW	100 kHz (below 1GHz emissions) 1 MHz (above 1GHz emissions)
VBW	100 kHz (below 1GHz emissions) 1 MHz (above 1GHz emissions)
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

1. EUT have the continuous reception mode and fixed only one channelize.
2. Setting of SA is following as RB / VB: 100 kHz (below 1GHz emissions) / 1 MHz (above 1GHz emissions) / Sweep time: Auto / Sweep Mode: Continuous sweep / Detect mode: Positive peak / Trace mode: Max hold
3. SA set RB: 100kHz and VB: 100kHz. Then adjust to start frequency 30MHz and stop frequency 1000MHz. Search to mark peak reading value + cable loss shall be less than 4nW.
4. SA set RB: 1MHz and VB: 1MHz. Then adjust to start frequency 1000MHz and stop frequency 12500MHz. Search to mark peak reading value + cable loss shall be less than 20nW.
5. If power level of lower emissions are more than 1/10 of limit (0.4nW for $f < 1\text{GHz}$, 2nW for $f \geq 1\text{GHz}$), all those are to be indicated in the 2nd and 3rd lines. If others are 1/10 or less more of the limit, no necessary to be indicated.

8.3 TEST RESULT

For the measurement records, refer to the appendix I.



9. TRANSMISSION RADIATION ANGLE WIDTH (3DB BEAMWIDTH) MEASUREMENT

9.1 LIMIT

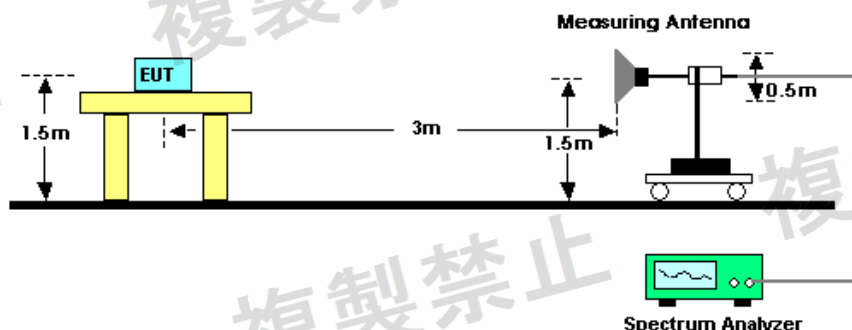
Item	Limits
3dB antenna beam width	$e \leq 360/A$ (The A is 10 in maximum) $A = \{EIRP \text{ Power [mW/MHz]} / \{2.14\text{dBi} + \text{output power}(10\text{mW /MHz}, 3\text{mW/MHz})\}\}$ Shall be 1 when A is lower than 1

9.2 TEST PROCEDURES

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	0 MHz
RBW	1 MHz
VBW	1 kHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

1. Set EUT and measuring antenna at the same height and roughly facing each other.
2. Set spectrum analyzer with condition in section 4.7.2 and tune reference level to observe receiving signal position.
3. Rotate directions of the EUT horizontally and vertically to find the maximum receiving power.
4. Move the measuring antenna height up and down within $\pm 50\text{cm}$ of EUT height and swing it to find the maximum output of measuring antenna. "E" is the half-power beam width (angle between two points at which radiated power becomes 1/2).
5. Calculate permitted radiation angle in horizontal and vertical using EIRP measured in another test method.
6. Calculate 3dB antenna beam width by the formula below $360/A$ (The A is 10 in maximum).
 $e \leq 360/A$ (The A is 10 in maximum)
 $A = \{EIRP \text{ Power [mW/MHz]} / \{2.14\text{dBi} + \text{output power}(10\text{mW/MHz}, 3\text{mW/MHz})\}\}$
Shall be 1 when A is lower than 1

9.3 TEST SETUP



9.4 TEST DEVIATION

There is no deviation with the original standard.

9.6 TEST RESULT

As the EUT max EIRP is less than 12.14dBm, so the test is not applicable and skipped.



10. RADIO INTERFERENCE PREVENTION CAPABILITY MEASUREMENT

10.1 LIMIT

Item	Limits
Identification code	≥ 48 bits

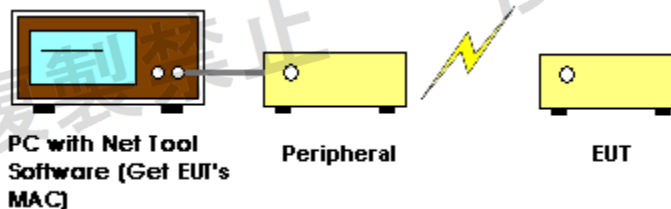
10.2 MEASURING ID CODE SOFTWARE

Item	Limits
MAC IP List	MAC Scan

10.3 TEST PROCEDURES

1. In the case that the EUT has the function of automatically transmitting the identification code:
 - a. Transmit the predetermined identification codes form EUT.
 - b. Check the transmitted identification codes with the demodulator.
2. In the case of receiving the identification ocde:
 - a. Transmit the predetermined identification codes form the counterpart.
 - b. Check if communication is normal.
 - c. Transmit the signals other than predetermined ID codes form the counterpart.
 - d. check if the EUT stops the transmission, or if it displays that idnetification codes are different from the predetermined ones.

10.4 TEST SETUP



10.5 TEST DEVIATION

There is no deviation with the original standard.



10.6 TEST RESULT OF RADIO INTERFERENCE PREVENTION CAPABILITY

The MAC address is b8-ac-6f-3e-d2-ee.

```
Microsoft Windows [Version 10.0.19045.6456]
(c) Microsoft Corporation. All rights reserved.

C:\Users\z0214>
C:\Users\z0214>
C:\Users\z0214>arp -a

Interface: 192.168.0.50 --- 0xb
    Internet Address      Physical Address      Type
    192.168.0.1           b8-ac-6f-3e-d2-ee    dynamic
    192.168.0.255         ff-ff-ff-ff-ff-ff    static
    224.0.0.22            01-00-5e-00-00-16    static
    224.0.0.251           01-00-5e-00-00-fb    static
    224.0.0.252           01-00-5e-00-00-fc    static
    239.255.255.250       01-00-5e-7f-ff-fa    static
    255.255.255.255       ff-ff-ff-ff-ff-ff    static
```

11. CARRIER SENSE CAPABILITY

11.1 INTERFERENCE PREVENTION FUNCTION

11.2 TEST REQUIREMENT

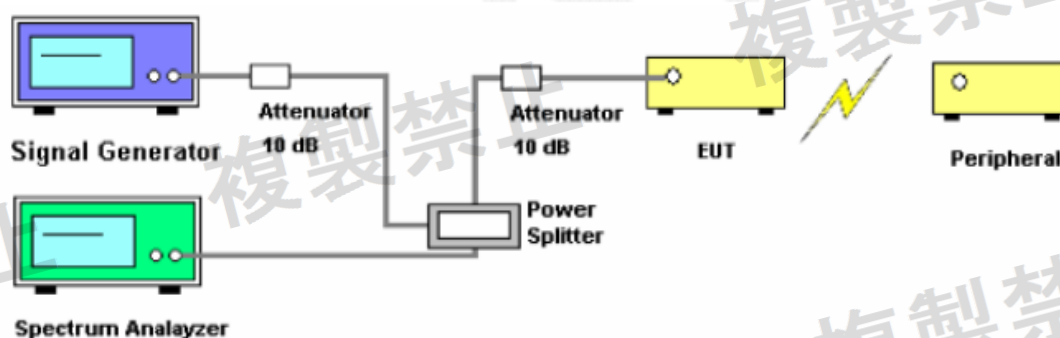
MIC Notice No.88 Appendix No.43

Article 2, Paragraph 1, Item 19 Rules Section 10

11.3 TEST PROCEDURE

1. SG adjusted the frequency as same as the EUT transmitted signal and emitted the absence of modulation from SG and power level is $(on\ 22.79 + G - 20 \cdot \log(f) \text{ dBm})$ (G is the antenna gain, f is the test frequency).
2. Turn off the RF signal of the SG.
3. EUT have transmitted the maximum modulation signal and fixed channelize.
4. Setting of SA :RBW/VBW=1MHz/1MHz, Span=0MHz, Sweep time=auto, Sweep mode=continuous, Detect mode=positive peak
5. SG RF signal on.
6. EUT shall be stop the transmitted any signal and SG RF signal off, the EUT will be continuous

❖ Measurement System Diagram



❖ Conditions of Application Equipment (EUT)

- The EUT state shall be "normal mode link with wireless router".

11.4 TEST RESULT

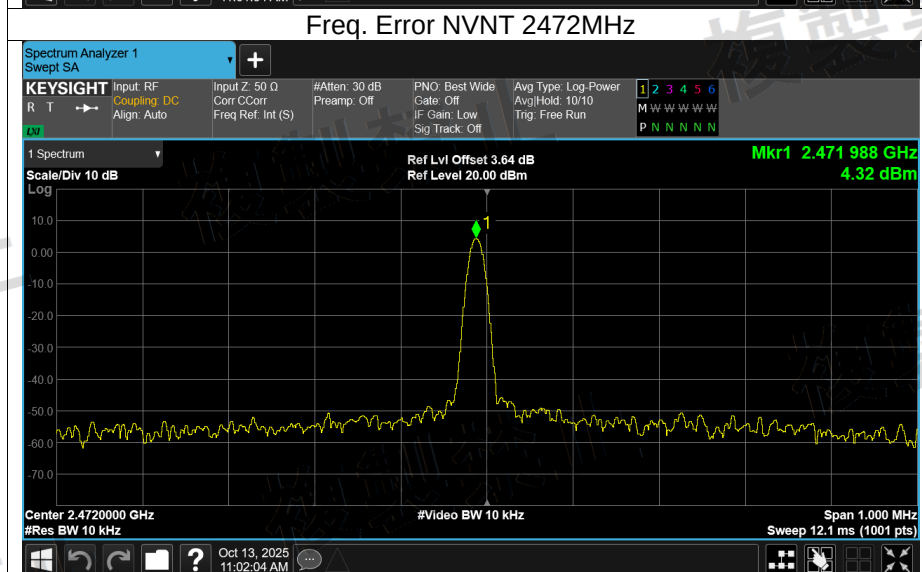
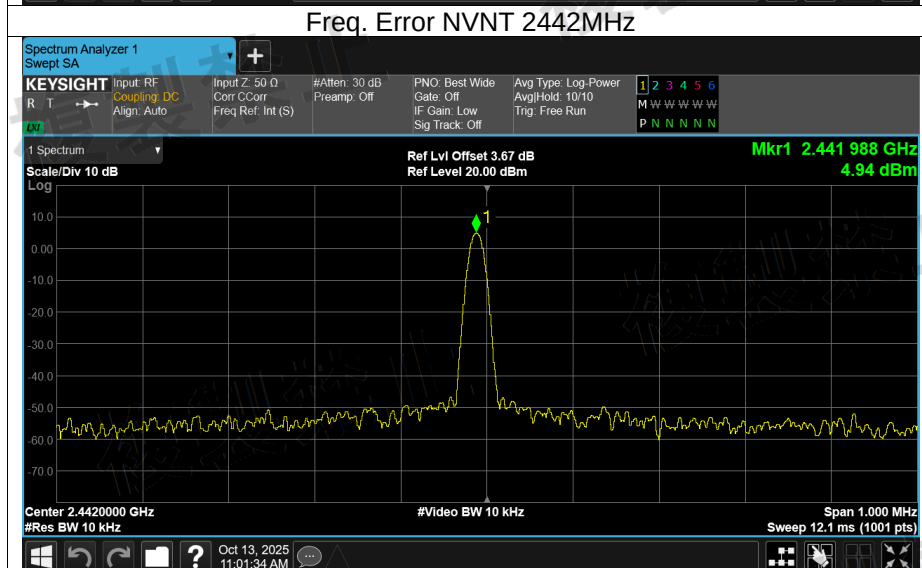
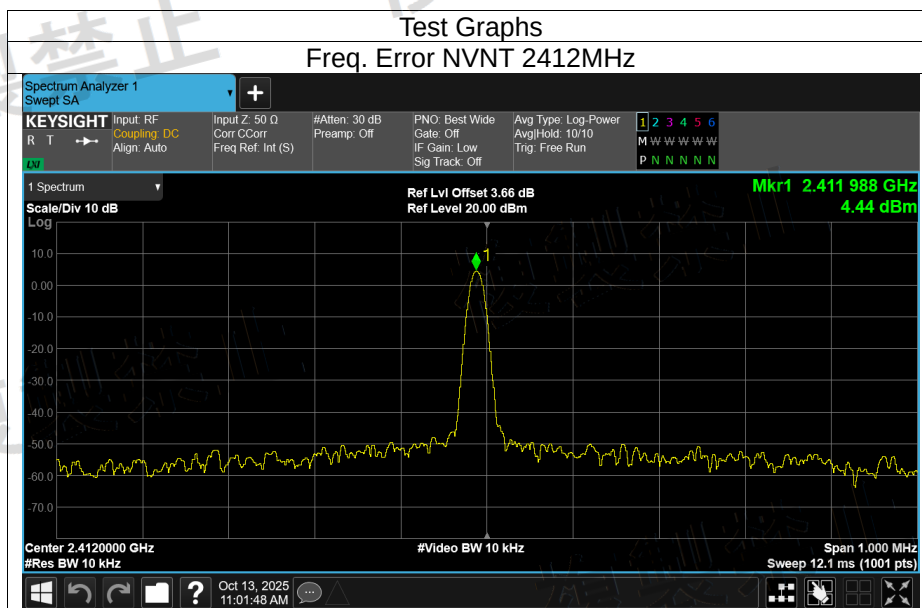
For the measurement records, refer to the appendix I.



APPENDIX I - TEST RESULT

FREQUENCY ERROR

Condition	Frequency (MHz)	Measured Frequency (MHz)	Frequency Error (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
NVNT	2412	2411.988	-12000	-4.98	±50	Pass
NVNT	2442	2441.988	-12000	-4.91	±50	Pass
NVNT	2472	2471.988	-12000	-4.85	±50	Pass





ANTENNA POWER

Condition	Mode	Frequency (MHz)	Power (dBm/MHz)	Antenna Power (mW/MHz)	Limit (mW/MHz)	Declared Power (mW/MHz)	Tolerance (%)	Upper Limit (%)	Verdict
NVNT	b	2412	8.16	6.546	10	6	9.10	20	Pass
NVNT	b	2442	7.5	5.623	10	6	-6.28	20	Pass
NVNT	b	2472	6.76	4.742	10	6	-20.97	20	Pass
NVNT	g	2412	8.97	7.889	10	7	12.70	20	Pass
NVNT	g	2442	7.32	5.395	10	7	-22.93	20	Pass
NVNT	g	2472	8.35	6.839	10	7	-2.30	20	Pass
NVNT	n20	2412	9.04	8.017	10	7	14.53	20	Pass
NVNT	n20	2442	6.2	4.169	10	7	-40.44	20	Pass
NVNT	n20	2472	3.52	2.249	10	7	-67.87	20	Pass
NVNT	n40	2422	5.47	3.524	5	3	17.47	20	Pass
NVNT	n40	2442	3.61	2.296	5	3	-23.47	20	Pass
NVNT	n40	2462	3.83	2.415	5	3	-19.50	20	Pass
NVNT	ax20	2412	5.77	3.776	10	5	-24.48	20	Pass
NVNT	ax20	2442	7	5.012	10	5	0.24	20	Pass
NVNT	ax20	2472	6	3.981	10	5	-20.38	20	Pass
NVNT	ax40	2422	4.17	2.612	5	3	-12.93	20	Pass
NVNT	ax40	2442	4.06	2.547	5	3	-15.10	20	Pass
NVNT	ax40	2462	2.53	1.791	5	3	-40.30	20	Pass

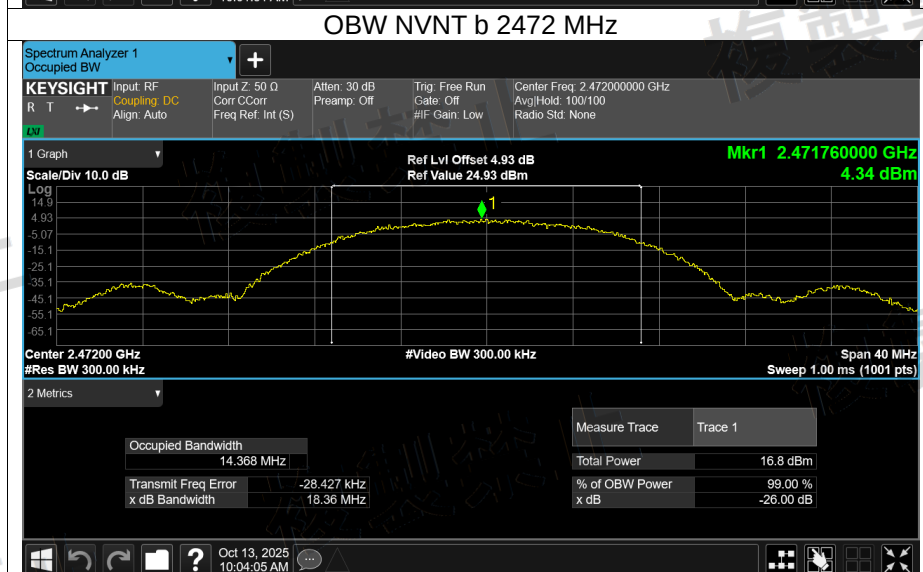
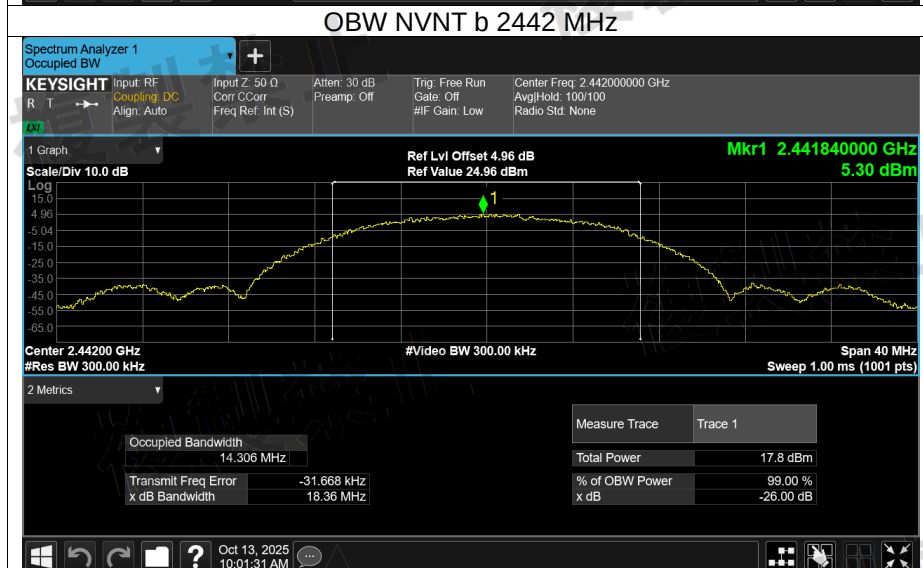
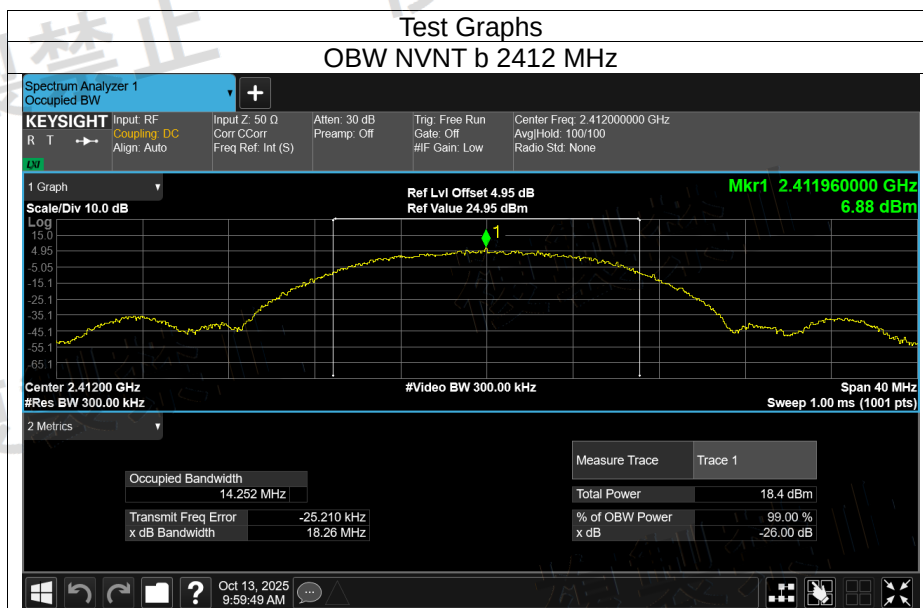
EIRP POWER

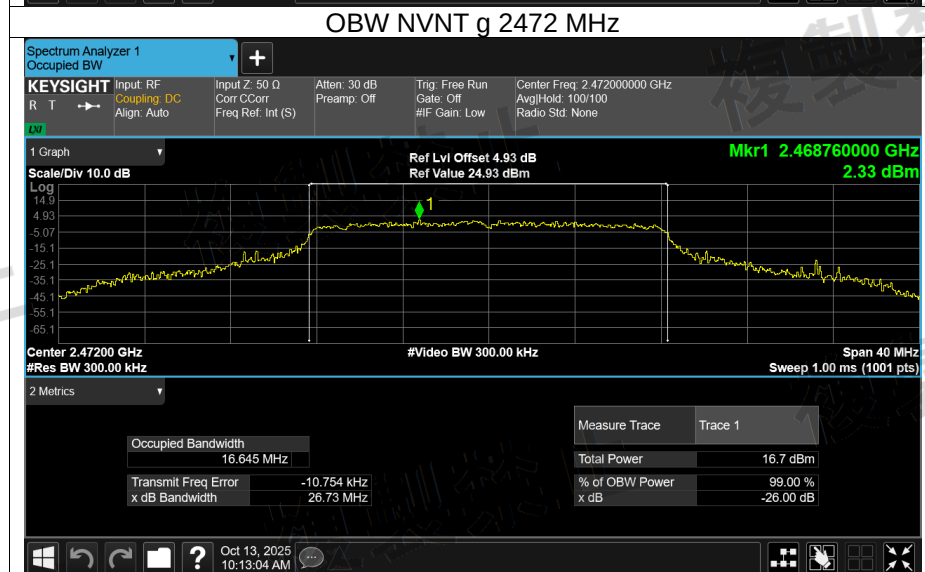
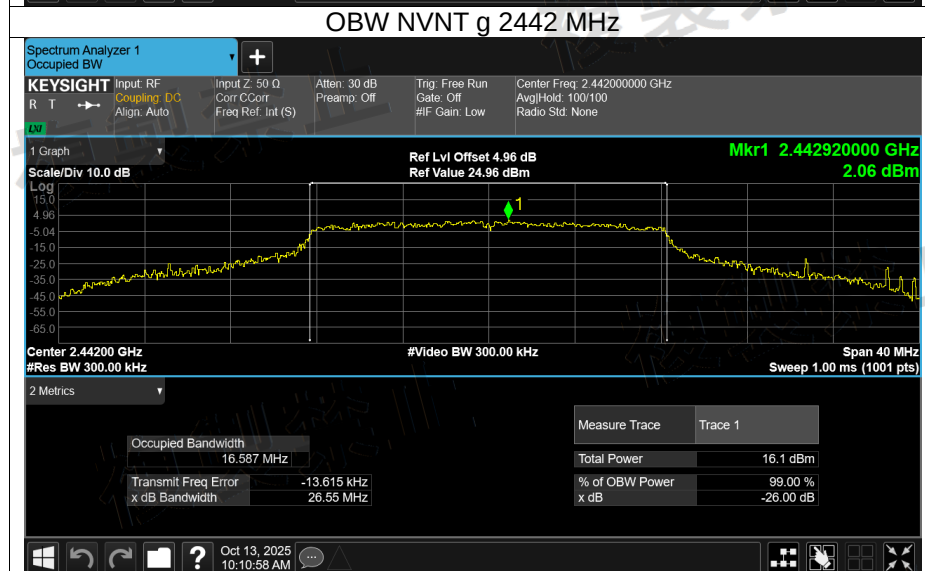
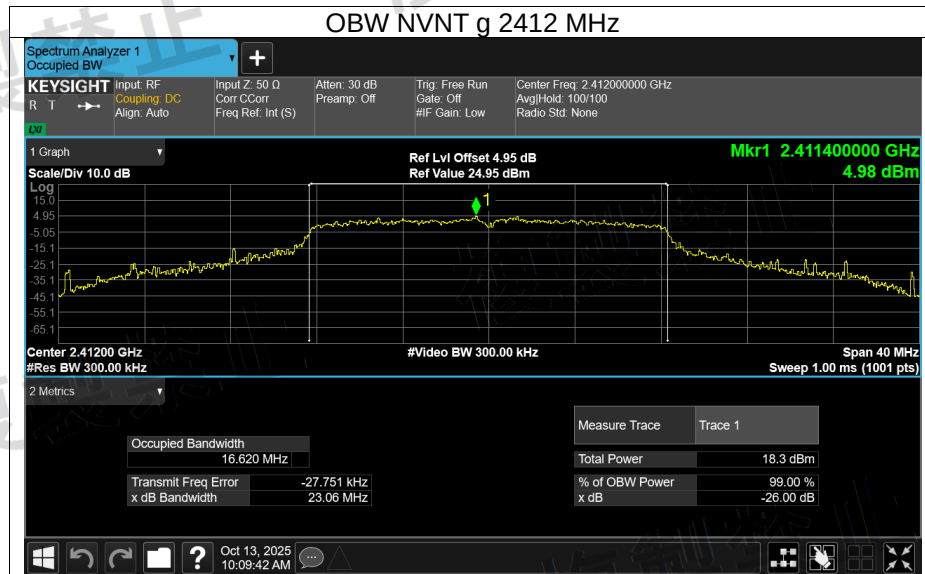
Condition	Mode	Frequency (MHz)	Antenna Power (dBm/MHz)	Gain (dBi)	EIRP Power (dBm/MHz)	Limit (dBm/MHz)	Verdict
NVNT	b	2412	8.16	1.29	9.45	12.14	Pass
NVNT	b	2442	7.5	1.29	8.79	12.14	Pass
NVNT	b	2472	6.76	1.29	8.05	12.14	Pass
NVNT	g	2412	8.97	1.29	10.26	12.14	Pass
NVNT	g	2442	7.32	1.29	8.61	12.14	Pass
NVNT	g	2472	8.35	1.29	9.64	12.14	Pass
NVNT	n20	2412	9.04	1.29	10.33	12.14	Pass
NVNT	n20	2442	6.2	1.29	7.49	12.14	Pass
NVNT	n20	2472	3.52	1.29	4.81	12.14	Pass
NVNT	n40	2422	5.47	1.29	6.76	9.13	Pass
NVNT	n40	2442	3.61	1.29	4.9	9.13	Pass
NVNT	n40	2462	3.83	1.29	5.12	9.13	Pass
NVNT	ax20	2412	5.77	1.29	7.06	12.14	Pass
NVNT	ax20	2442	7	1.29	8.29	12.14	Pass
NVNT	ax20	2472	6	1.29	7.29	12.14	Pass
NVNT	ax40	2422	4.17	1.29	5.46	9.13	Pass
NVNT	ax40	2442	4.06	1.29	5.35	9.13	Pass
NVNT	ax40	2462	2.53	1.29	3.82	9.13	Pass

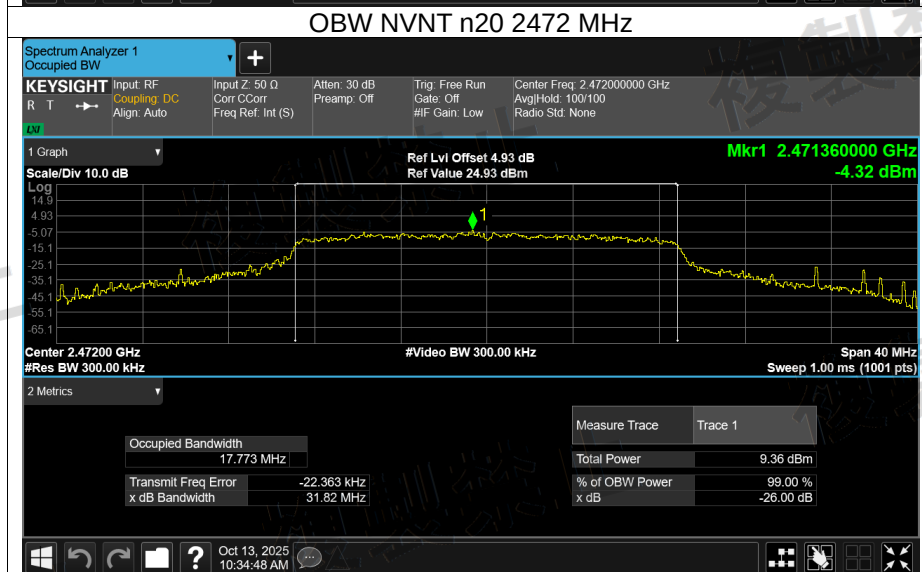
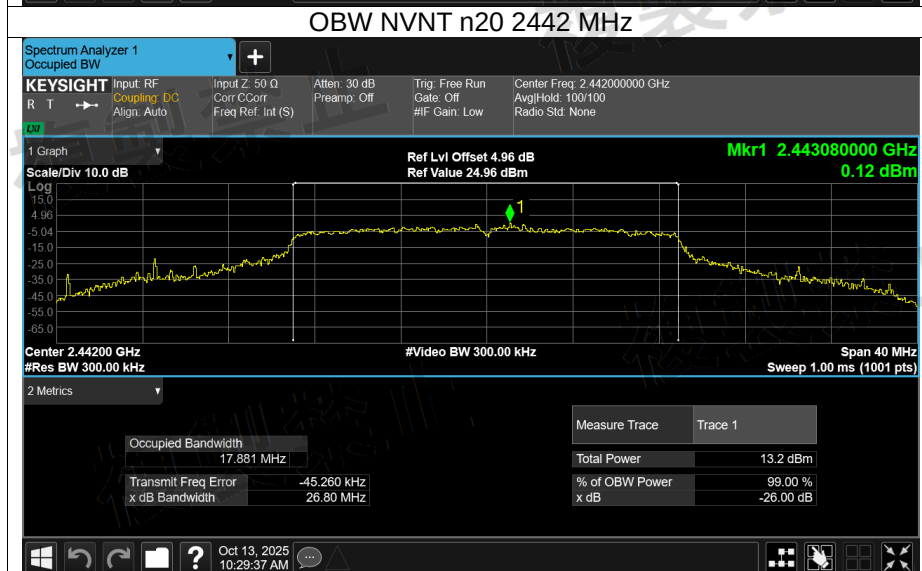
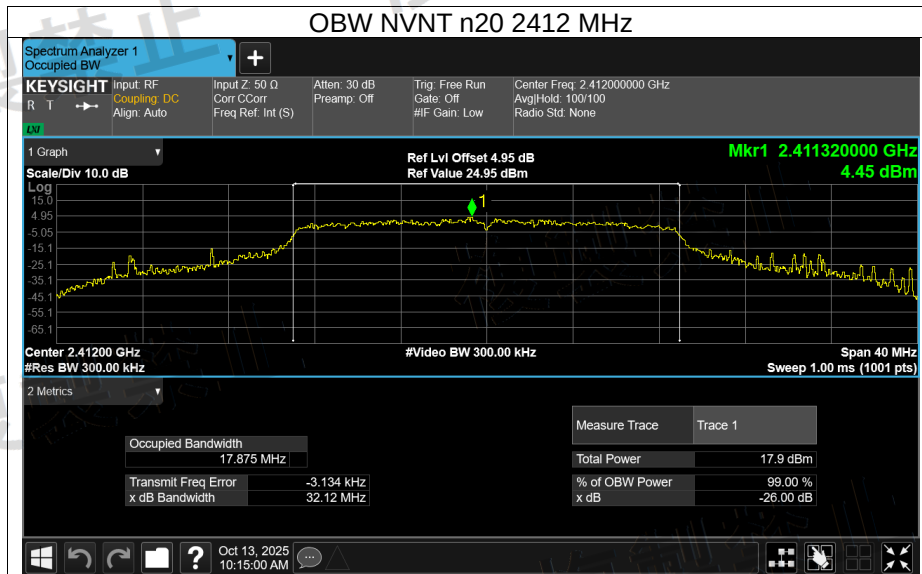


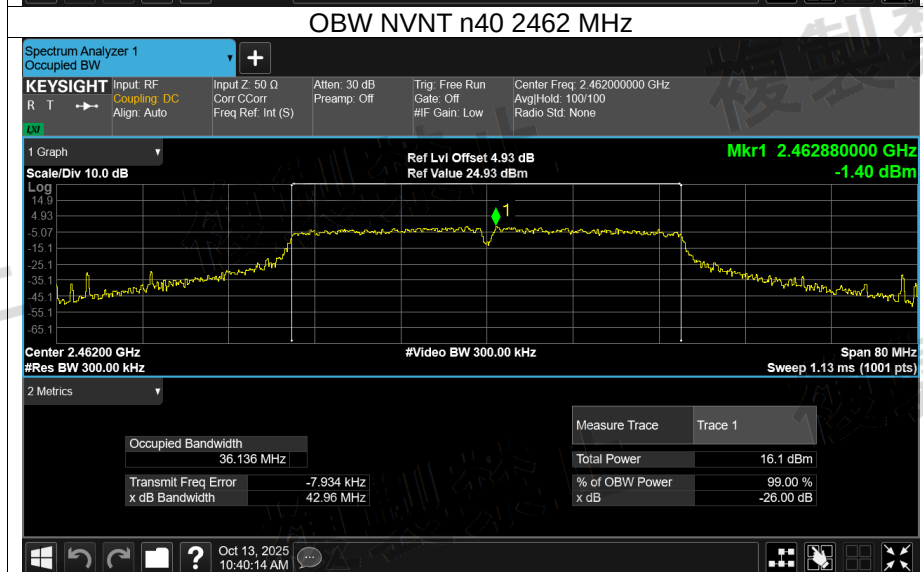
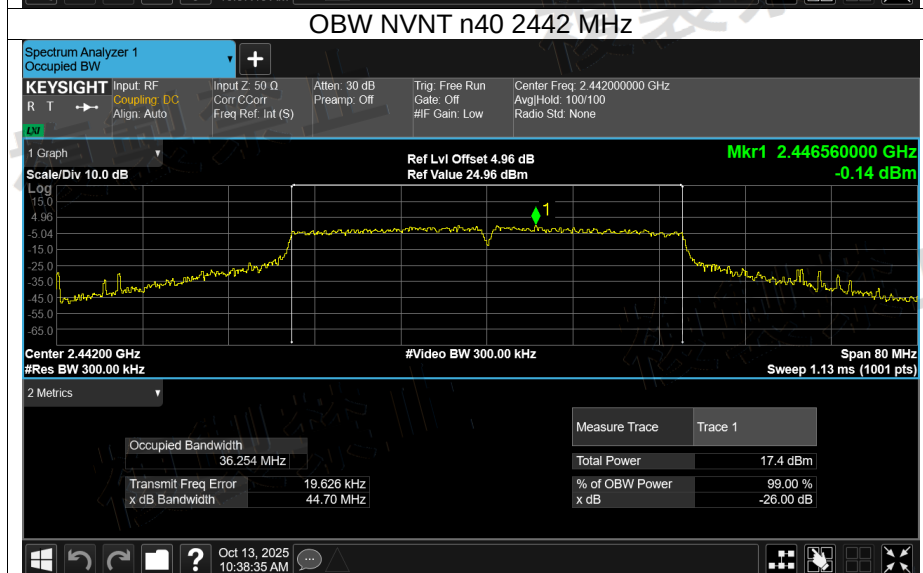
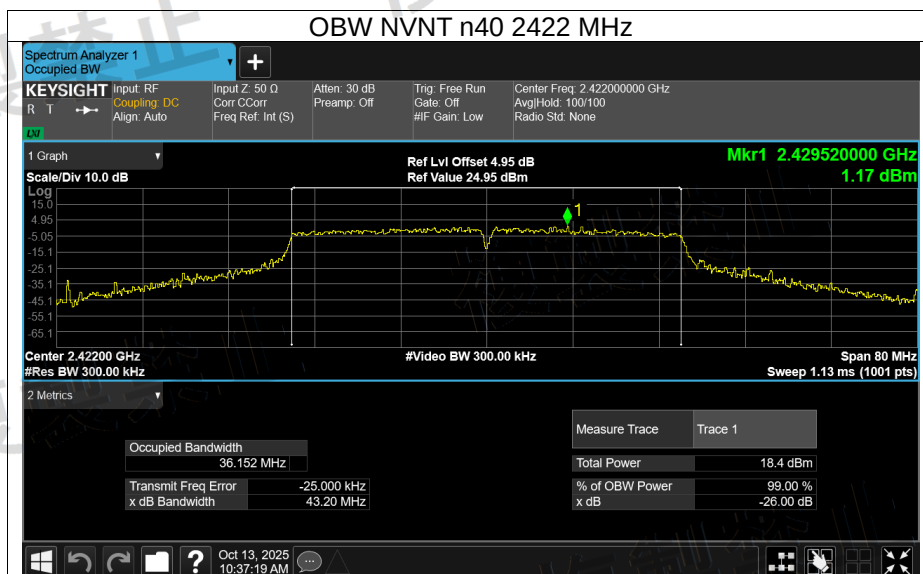
OCCUPIED CHANNEL BANDWIDTH

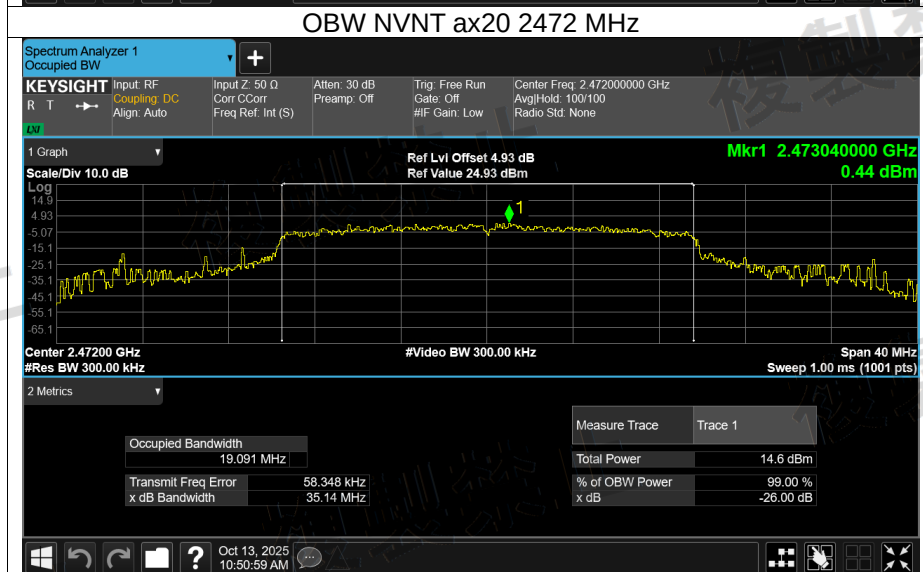
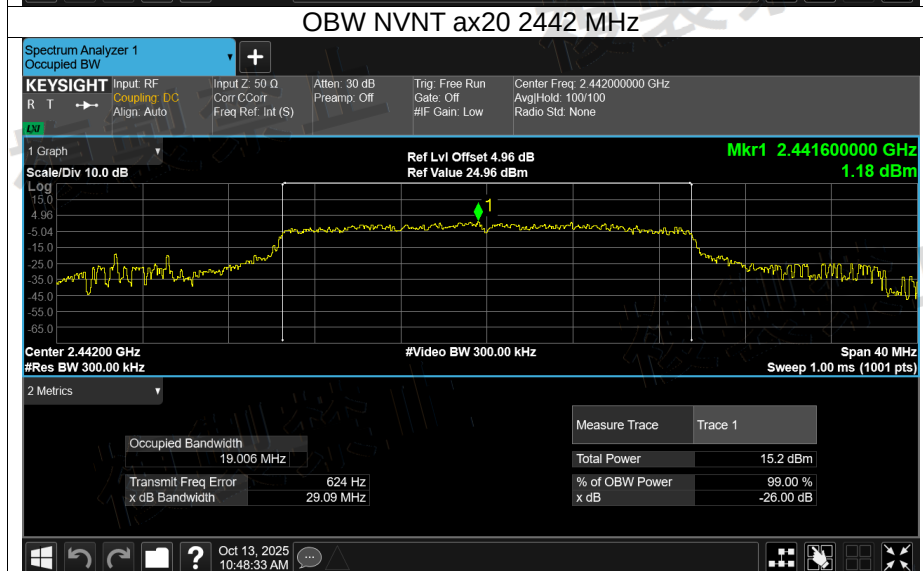
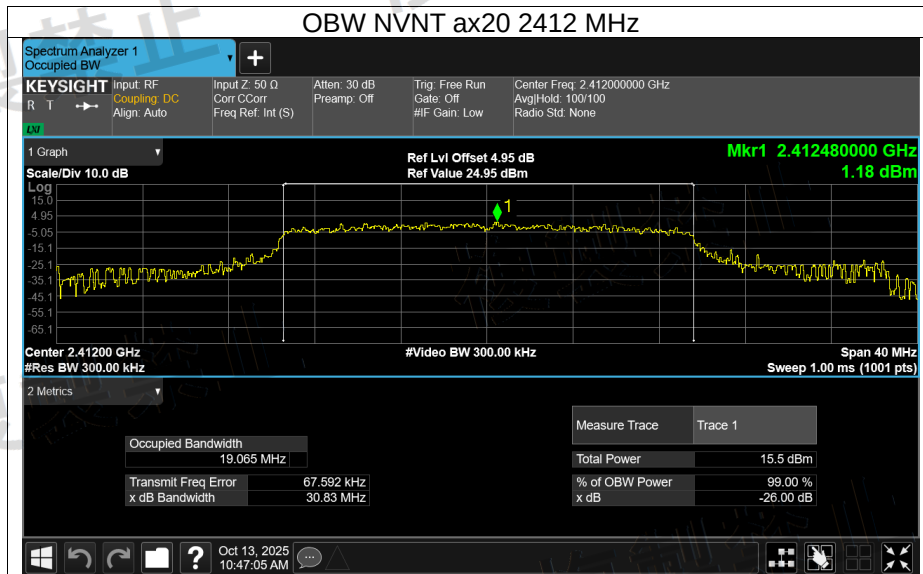
Condition	Mode	Frequency (MHz)	99% OBW (MHz)
NVNT	b	2412	14.252
NVNT	b	2442	14.306
NVNT	b	2472	14.368
NVNT	g	2412	16.62
NVNT	g	2442	16.587
NVNT	g	2472	16.645
NVNT	n20	2412	17.875
NVNT	n20	2442	17.881
NVNT	n20	2472	17.773
NVNT	n40	2422	36.152
NVNT	n40	2442	36.254
NVNT	n40	2462	36.136
NVNT	ax20	2412	19.065
NVNT	ax20	2442	19.006
NVNT	ax20	2472	19.091
NVNT	ax40	2422	37.819
NVNT	ax40	2442	37.809
NVNT	ax40	2462	37.94

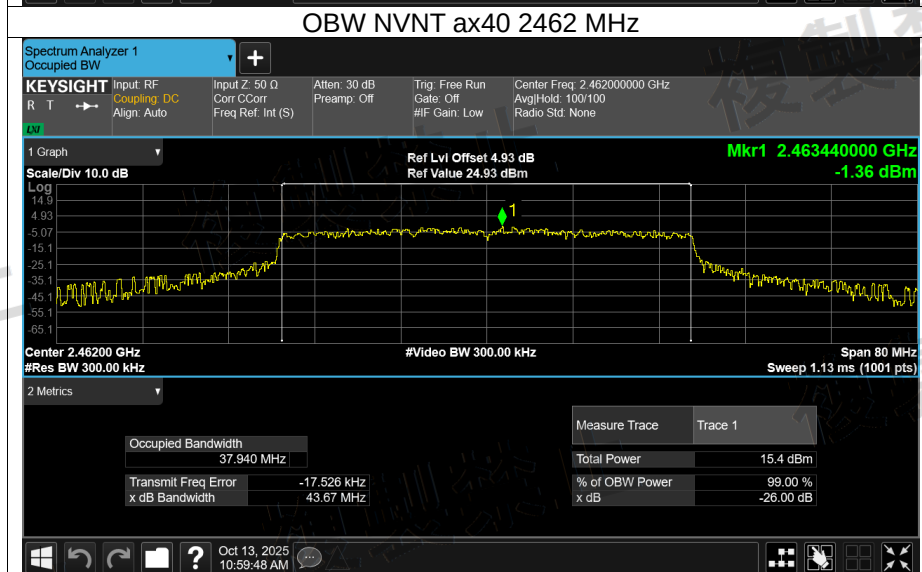
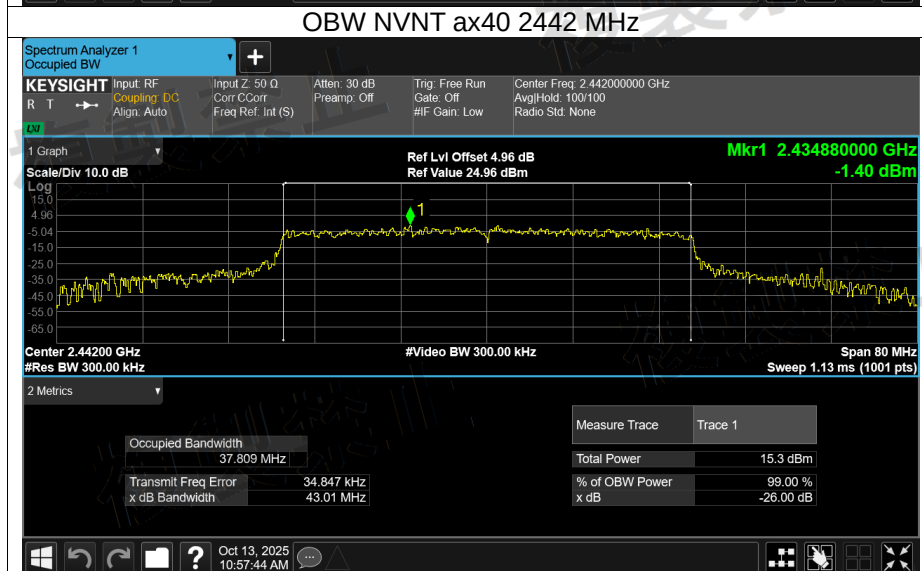
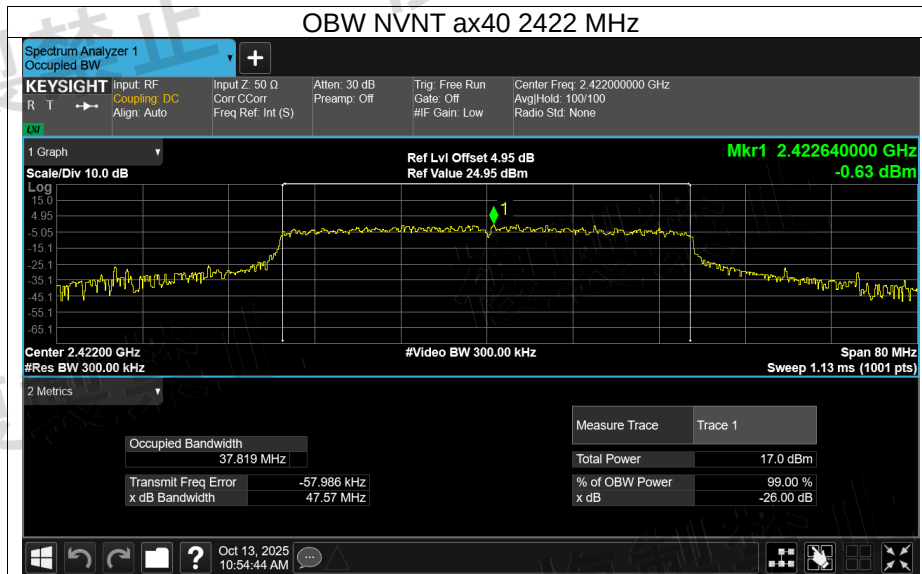














TX SPURIOUS EMISSION

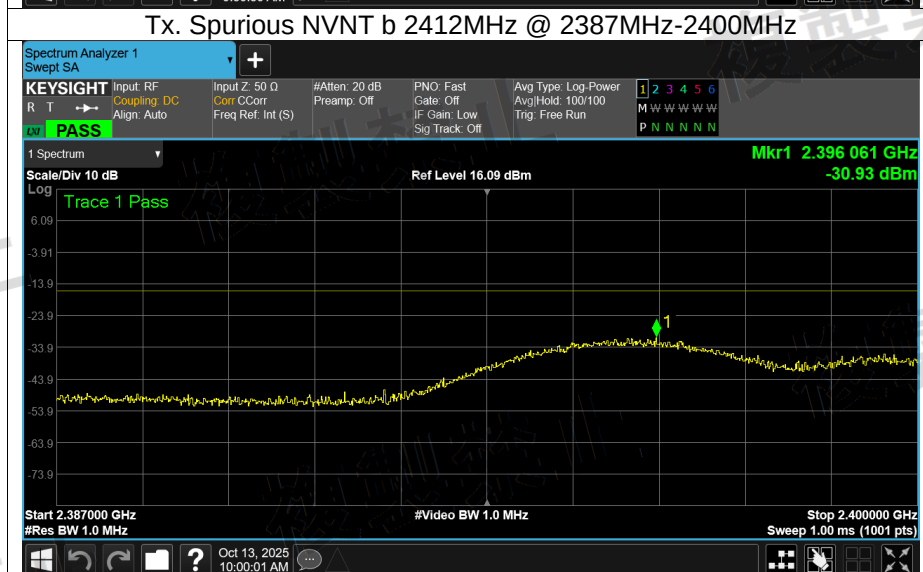
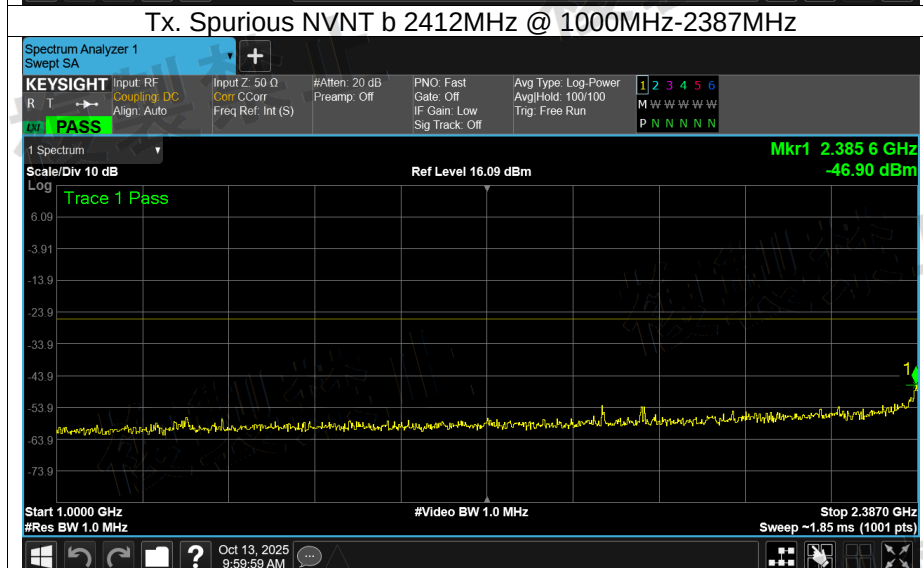
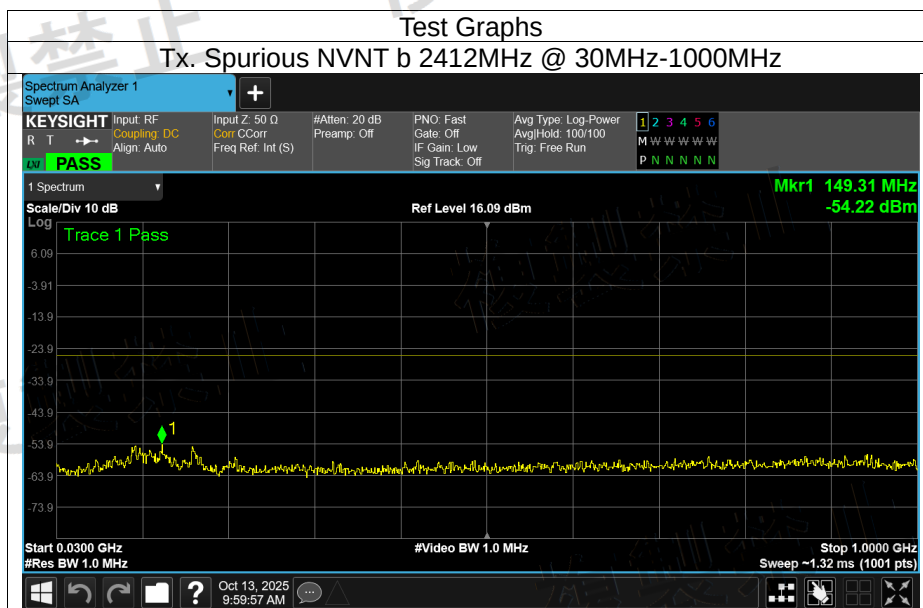
Condition	Mode	Frequency (MHz)	Range (MHz)	Emission Frequency (MHz)	Max Peak Value (dBm)	Max RMS Value (dBm)	Max Peak Value (uW)	Max RMS Value (uW)	Limit Start (uW)	Limit Stop (uW)	Verdict
NVNT	b	2412	30-1000	149.31	-54.22	NA	0.0038	NA	2.5	2.5	Pass
NVNT	b	2412	1000-2387	2385.61	-46.90	NA	0.0204	NA	2.5	2.5	Pass
NVNT	b	2412	2387-2400	2396.06	-30.92	NA	0.8091	NA	25	25	Pass
NVNT	b	2412	2483.5-2496.5	2489.56	-54.90	NA	0.0032	NA	25	25	Pass
NVNT	b	2412	2496.5-13000	2528.01	-28.31	-65.17	1.4757	0.0003	2.5	2.5	Pass
NVNT	b	2442	30-1000	184.23	-52.35	NA	0.0058	NA	2.5	2.5	Pass
NVNT	b	2442	1000-2387	2341.23	-54.52	NA	0.0035	NA	2.5	2.5	Pass
NVNT	b	2442	2387-2400	2391.85	-55.02	NA	0.0031	NA	25	25	Pass
NVNT	b	2442	2483.5-2496.5	2489.40	-55.01	NA	0.0032	NA	25	25	Pass
NVNT	b	2442	2496.5-13000	4880.79	-37.45	NA	0.1799	NA	2.5	2.5	Pass
NVNT	b	2472	30-1000	118.27	-54.57	NA	0.0035	NA	2.5	2.5	Pass
NVNT	b	2472	1000-2387	1755.92	-42.39	NA	0.0577	NA	2.5	2.5	Pass
NVNT	b	2472	2387-2400	2389.50	-55.80	NA	0.0026	NA	25	25	Pass
NVNT	b	2472	2483.5-2496.5	2488.57	-39.75	NA	0.1059	NA	25	25	Pass
NVNT	b	2472	2496.5-13000	4943.82	-38.46	NA	0.1426	NA	2.5	2.5	Pass
NVNT	g	2412	30-1000	893.30	-43.08	NA	0.0492	NA	2.5	2.5	Pass
NVNT	g	2412	1000-2387	1758.69	-42.58	NA	0.0552	NA	2.5	2.5	Pass
NVNT	g	2412	2387-2400	2399.36	-20.17	NA	9.6161	NA	25	25	Pass
NVNT	g	2412	2483.5-2496.5	2484.49	-37.80	NA	0.166	NA	25	25	Pass
NVNT	g	2412	2496.5-13000	2496.50	-40.06	NA	0.0986	NA	2.5	2.5	Pass
NVNT	g	2442	30-1000	192.96	-53.08	NA	0.0049	NA	2.5	2.5	Pass
NVNT	g	2442	1000-2387	2350.94	-45.74	NA	0.0267	NA	2.5	2.5	Pass
NVNT	g	2442	2387-2400	2394.85	-35.34	NA	0.2924	NA	25	25	Pass
NVNT	g	2442	2483.5-2496.5	2488.38	-33.69	NA	0.4276	NA	25	25	Pass
NVNT	g	2442	2496.5-13000	2507.00	-40.43	NA	0.0906	NA	2.5	2.5	Pass
NVNT	g	2472	30-1000	186.17	-54.48	NA	0.0036	NA	2.5	2.5	Pass
NVNT	g	2472	1000-2387	2184.50	-47.56	NA	0.0175	NA	2.5	2.5	Pass
NVNT	g	2472	2387-2400	2389.17	-41.04	NA	0.0787	NA	25	25	Pass
NVNT	g	2472	2483.5-2496.5	2483.90	-21.90	NA	6.4565	NA	25	25	Pass
NVNT	g	2472	2496.5-13000	2601.54	-26.28	-65.32	2.355	0.0003	2.5	2.5	Pass
NVNT	n20	2412	30-1000	185.20	-53.29	NA	0.0047	NA	2.5	2.5	Pass

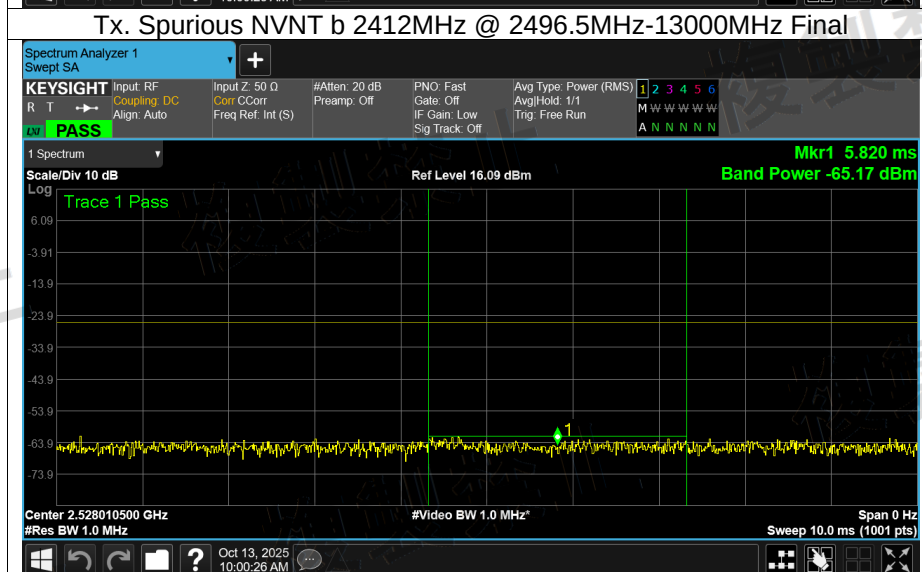
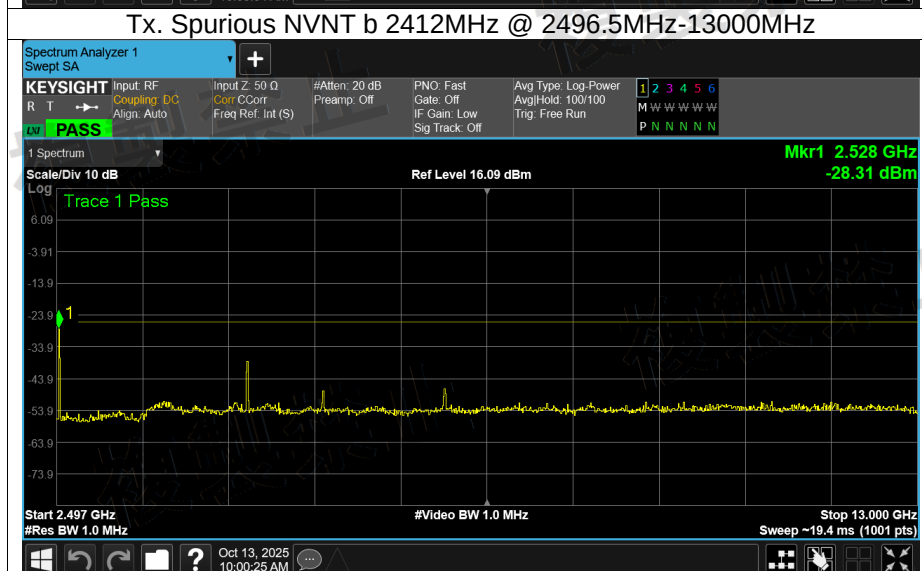
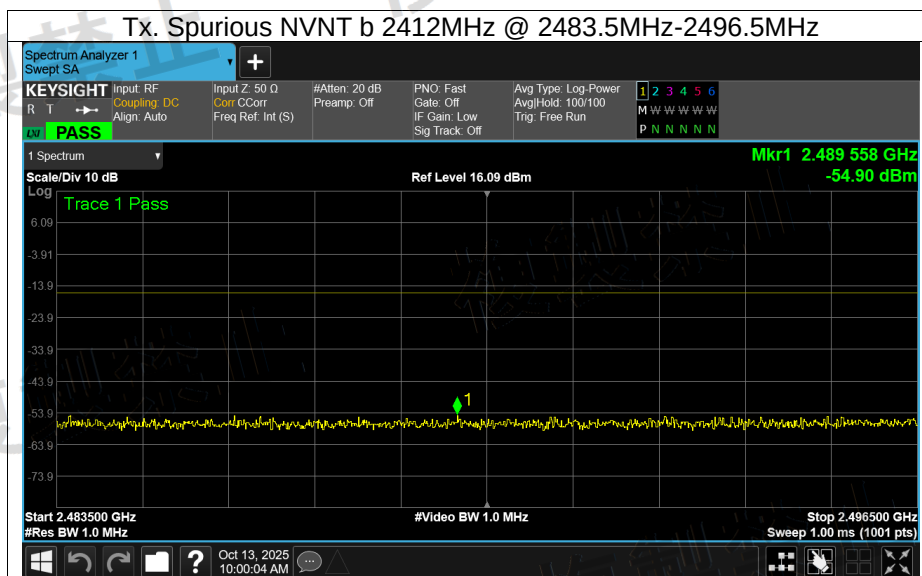


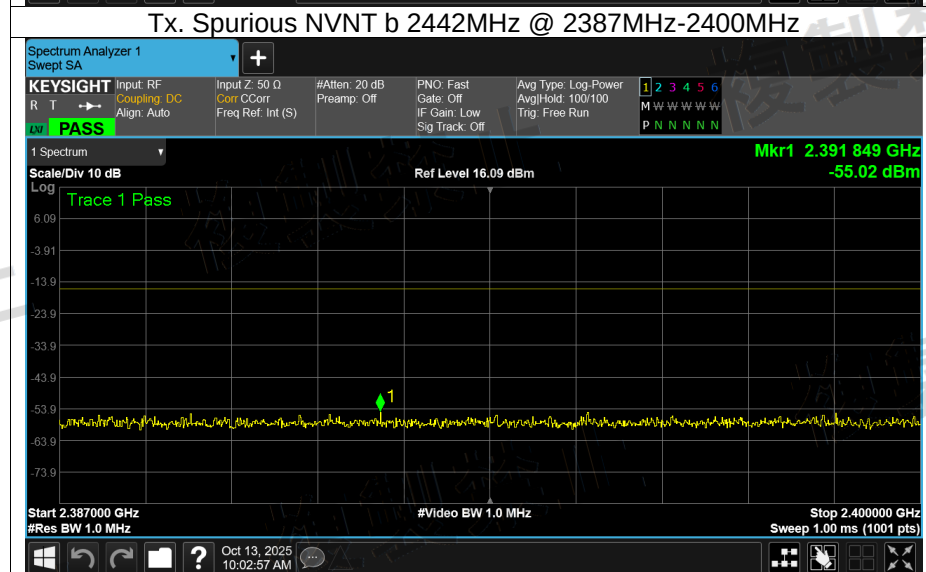
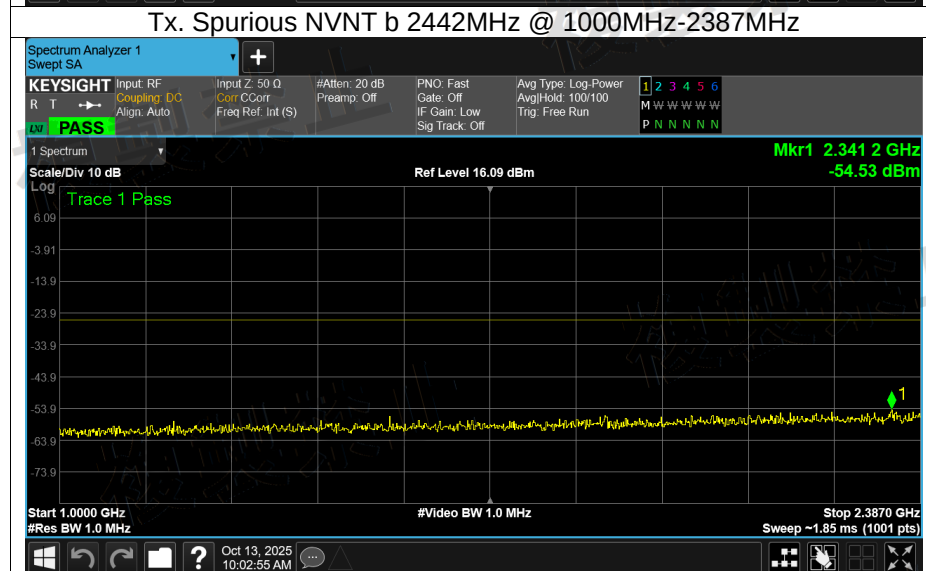
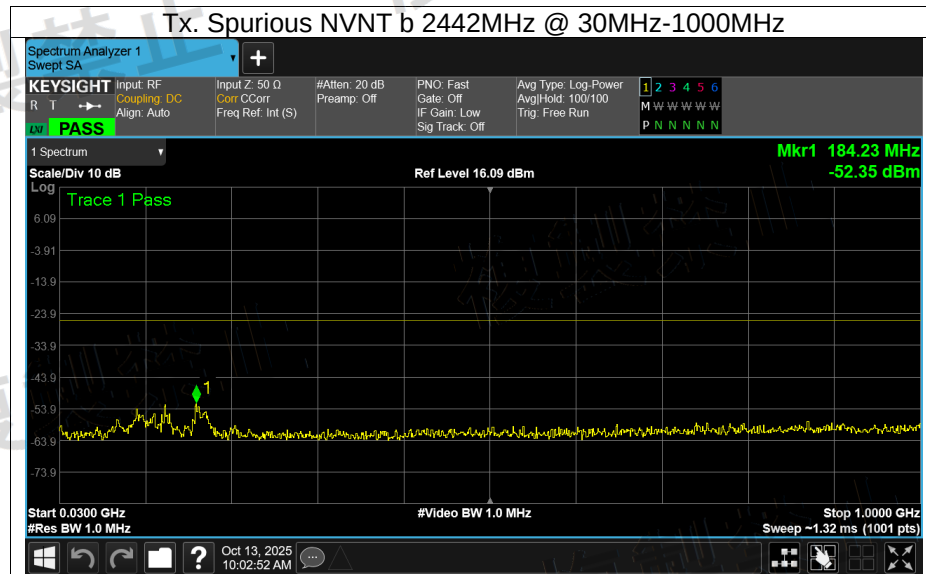
NVNT	n20	2412	1000-23 87	2359.26	-39.08	NA	0.1236	NA	2.5	2.5	Pass
NVNT	n20	2412	2387-24 00	2399.71	-18.59	-42.22	13.835 7	0.06	25	25	Pass
NVNT	n20	2412	2483.5- 2496.5	2492.04	-37.63	NA	0.1726	NA	25	25	Pass
NVNT	n20	2412	2496.5- 13000	2528.01	-30.43	NA	0.9057	NA	2.5	2.5	Pass
NVNT	n20	2442	30-1000	834.13	-48.74	NA	0.0134	NA	2.5	2.5	Pass
NVNT	n20	2442	1000-23 87	2178.95	-47.16	NA	0.0192	NA	2.5	2.5	Pass
NVNT	n20	2442	2387-24 00	2399.74	-35.12	NA	0.3076	NA	25	25	Pass
NVNT	n20	2442	2483.5- 2496.5	2492.69	-33.71	NA	0.4256	NA	25	25	Pass
NVNT	n20	2442	2496.5- 13000	2612.04	-29.02	-65.15	1.2531	0.0003	2.5	2.5	Pass
NVNT	n20	2472	30-1000	834.13	-49.38	NA	0.0115	NA	2.5	2.5	Pass
NVNT	n20	2472	1000-23 87	2135.95	-46.27	NA	0.0236	NA	2.5	2.5	Pass
NVNT	n20	2472	2387-24 00	2399.04	-41.27	NA	0.0746	NA	25	25	Pass
NVNT	n20	2472	2483.5- 2496.5	2485.80	-18.77	-48.42	13.273 9	0.0144	25	25	Pass
NVNT	n20	2472	2496.5- 13000	2612.04	-28.25	-65.36	1.4962	0.0003	2.5	2.5	Pass
NVNT	n40	2422	30-1000	836.07	-41.06	NA	0.0783	NA	2.5	2.5	Pass
NVNT	n40	2422	1000-23 87	2385.61	-39.63	NA	0.1089	NA	2.5	2.5	Pass
NVNT	n40	2422	2387-24 00	2399.75	-27.20	NA	1.9055	NA	25	25	Pass
NVNT	n40	2422	2483.5- 2496.5	2494.63	-36.06	NA	0.2477	NA	25	25	Pass
NVNT	n40	2422	2496.5- 13000	2496.50	-40.09	NA	0.0979	NA	2.5	2.5	Pass
NVNT	n40	2442	30-1000	834.13	-49.68	NA	0.0108	NA	2.5	2.5	Pass
NVNT	n40	2442	1000-23 87	2133.18	-45.28	NA	0.0296	NA	2.5	2.5	Pass
NVNT	n40	2442	2387-24 00	2396.93	-35.22	NA	0.3006	NA	25	25	Pass
NVNT	n40	2442	2483.5- 2496.5	2491.63	-33.41	NA	0.456	NA	25	25	Pass
NVNT	n40	2442	2496.5- 13000	2517.51	-36.25	NA	0.2371	NA	2.5	2.5	Pass
NVNT	n40	2462	30-1000	835.10	-47.43	NA	0.0181	NA	2.5	2.5	Pass
NVNT	n40	2462	1000-23 87	2167.85	-43.67	NA	0.043	NA	2.5	2.5	Pass
NVNT	n40	2462	2387-24 00	2394.07	-38.79	NA	0.1321	NA	25	25	Pass
NVNT	n40	2462	2483.5- 2496.5	2485.41	-27.03	NA	1.9815	NA	25	25	Pass
NVNT	n40	2462	2496.5- 13000	2496.50	-33.85	NA	0.4121	NA	2.5	2.5	Pass
NVNT	ax20	2412	30-1000	186.17	-54.38	NA	0.0036	NA	2.5	2.5	Pass
NVNT	ax20	2412	1000-23 87	2380.07	-36.38	NA	0.2301	NA	2.5	2.5	Pass
NVNT	ax20	2412	2387-24 00	2398.08	-19.00	-48.74	12.589 3	0.0134	25	25	Pass
NVNT	ax20	2412	2483.5- 2496.5	2486.92	-37.32	NA	0.1854	NA	25	25	Pass
NVNT	ax20	2412	2496.5- 13000	2549.02	-43.60	NA	0.0437	NA	2.5	2.5	Pass

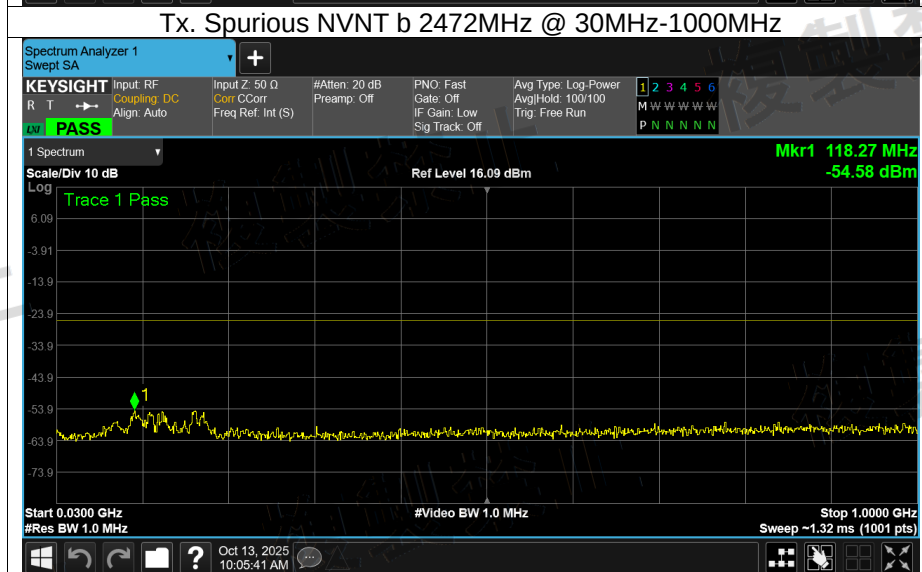
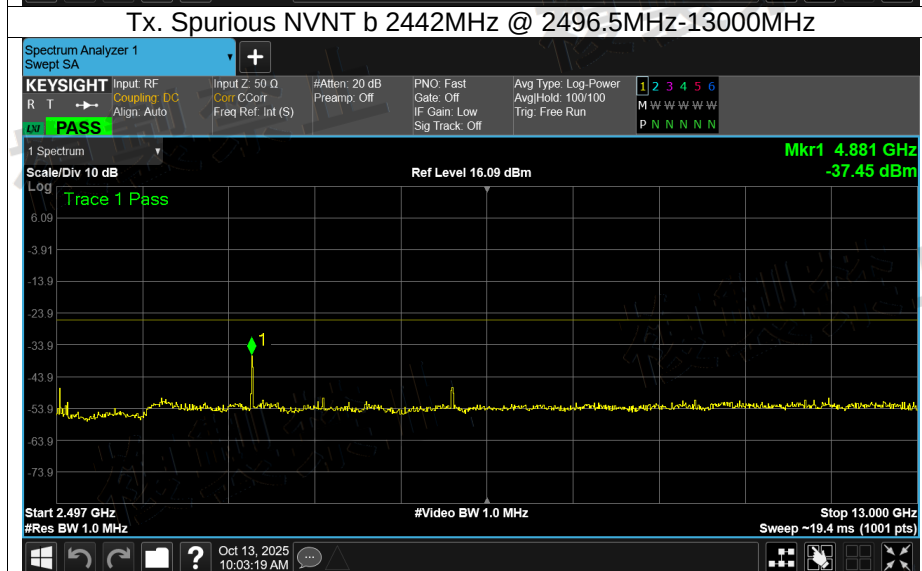
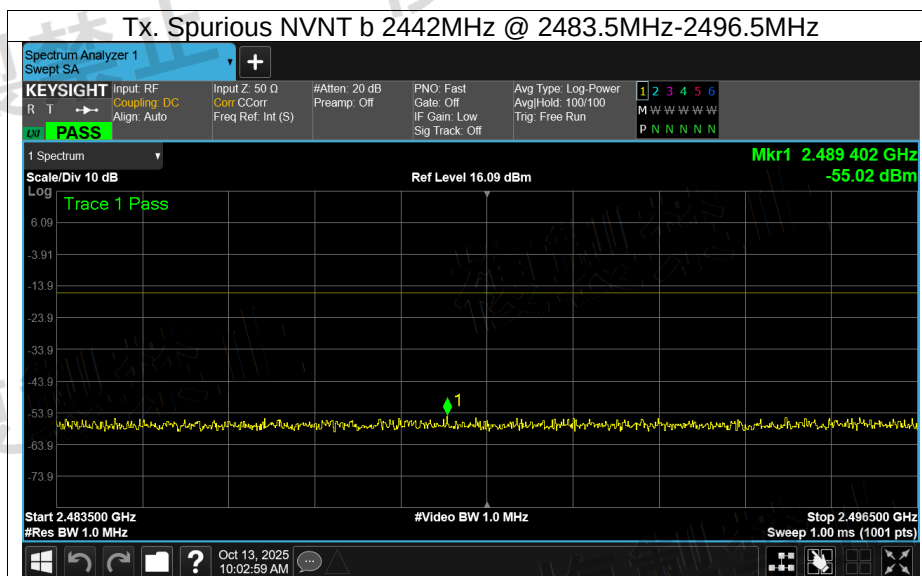


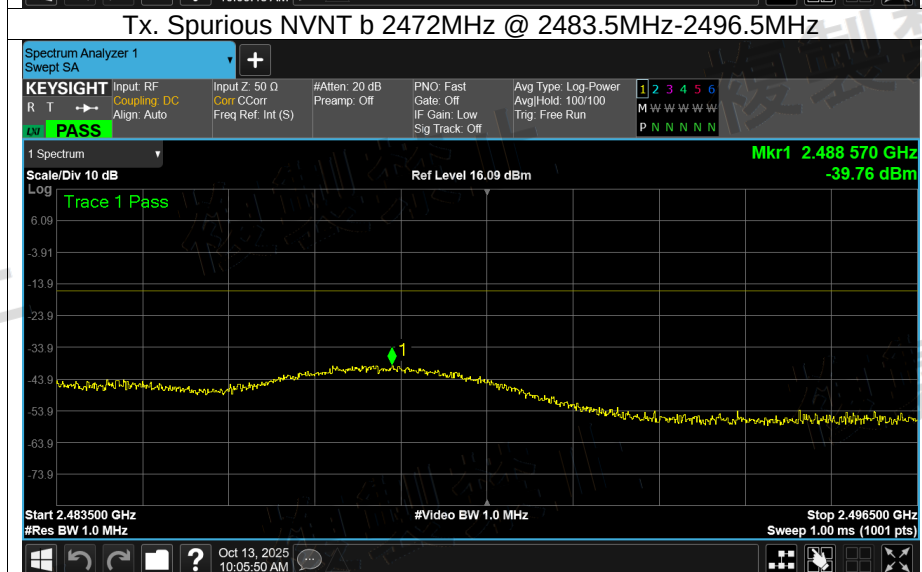
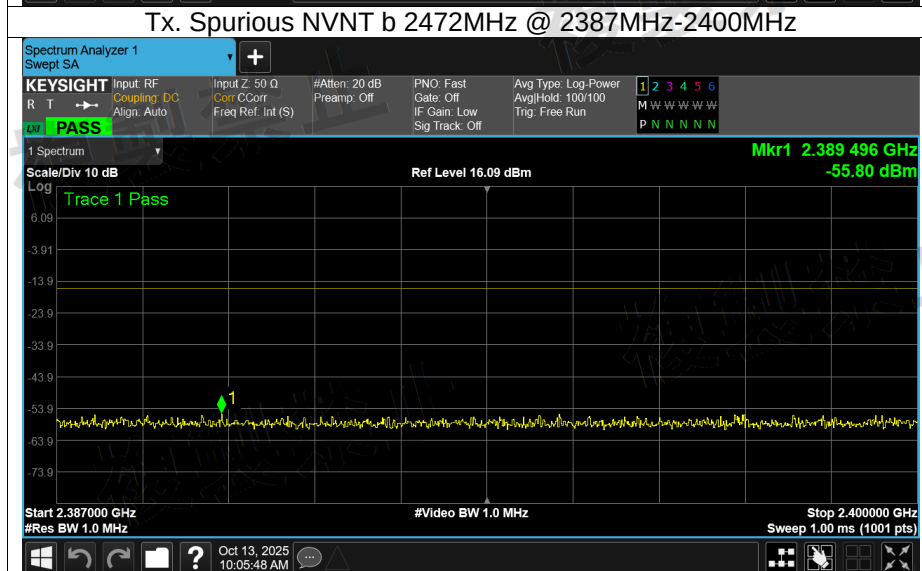
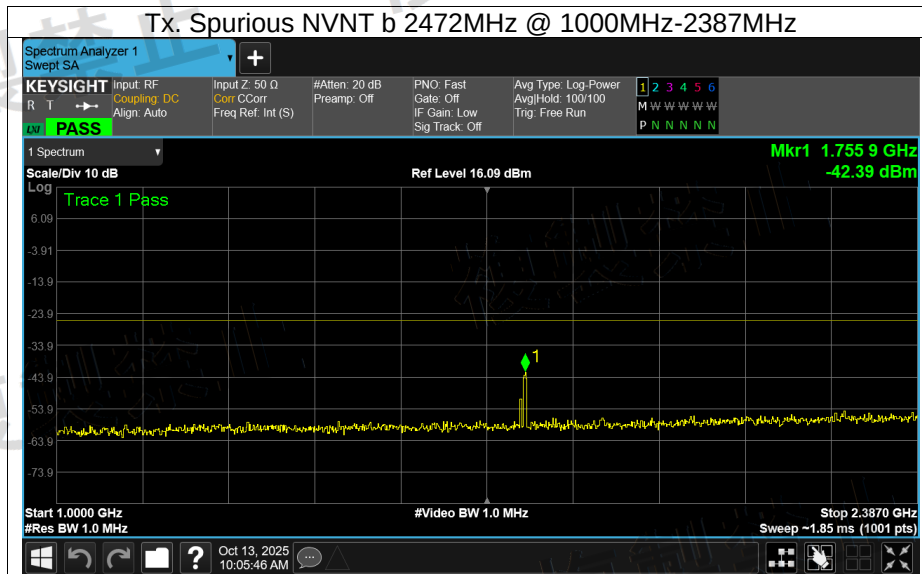
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NVNT	ax20	2442	2387-24 00	2397.52	-34.68	NA	0.3404	NA	25	25	Pass
NVNT	ax20	2442	2483.5- 2496.5	2485.27	-32.12	NA	0.6138	NA	25	25	Pass
NVNT	ax20	2442	2496.5- 13000	2496.50	-36.00	NA	0.2512	NA	2.5	2.5	Pass
NVNT	ax20	2472	30-1000	186.17	-53.02	NA	0.005	NA	2.5	2.5	Pass
NVNT	ax20	2472	1000-23 87	2147.05	-46.89	NA	0.0205	NA	2.5	2.5	Pass
NVNT	ax20	2472	2387-24 00	2397.17	-40.05	NA	0.0989	NA	25	25	Pass
NVNT	ax20	2472	2483.5- 2496.5	2483.82	-16.77	-41.83	21.037 8	0.0656	25	25	Pass
NVNT	ax20	2472	2496.5- 13000	2580.53	-42.34	NA	0.0583	NA	2.5	2.5	Pass
NVNT	ax40	2422	30-1000	185.20	-53.60	NA	0.0044	NA	2.5	2.5	Pass
NVNT	ax40	2422	1000-23 87	2382.84	-41.93	NA	0.0641	NA	2.5	2.5	Pass
NVNT	ax40	2422	2387-24 00	2399.96	-28.26	NA	1.4928	NA	25	25	Pass
NVNT	ax40	2422	2483.5- 2496.5	2486.46	-35.74	NA	0.2667	NA	25	25	Pass
NVNT	ax40	2422	2496.5- 13000	2528.01	-39.68	NA	0.1076	NA	2.5	2.5	Pass
NVNT	ax40	2442	30-1000	127.97	-53.25	NA	0.0047	NA	2.5	2.5	Pass
NVNT	ax40	2442	1000-23 87	2155.37	-43.52	NA	0.0445	NA	2.5	2.5	Pass
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NVNT	ax40	2442	2496.5- 13000	2507.00	-34.50	NA	0.3548	NA	2.5	2.5	Pass
NVNT	ax40	2462	30-1000	185.20	-52.89	NA	0.0051	NA	2.5	2.5	Pass
NVNT	ax40	2462	1000-23 87	2380.07	-41.72	NA	0.0673	NA	2.5	2.5	Pass
NVNT	ax40	2462	2387-24 00	2391.85	-39.80	NA	0.1047	NA	25	25	Pass
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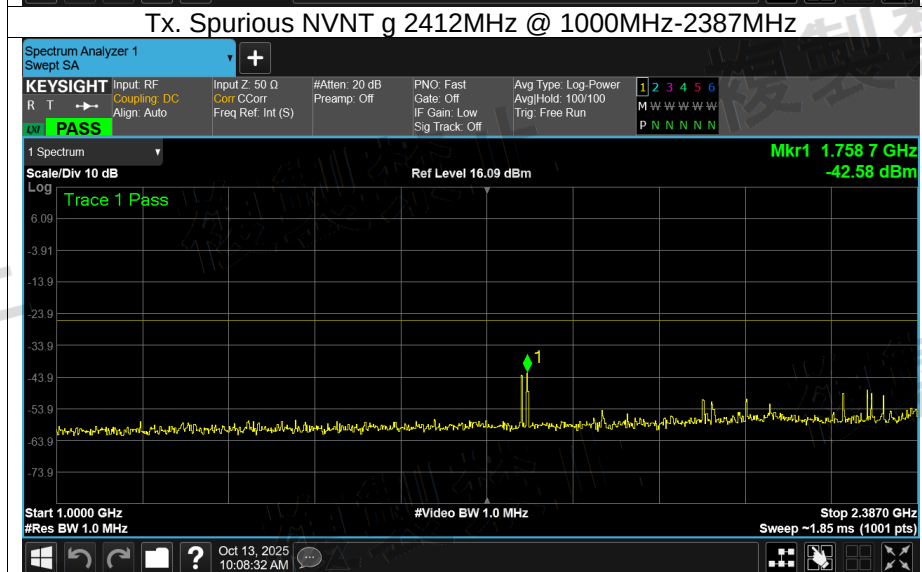
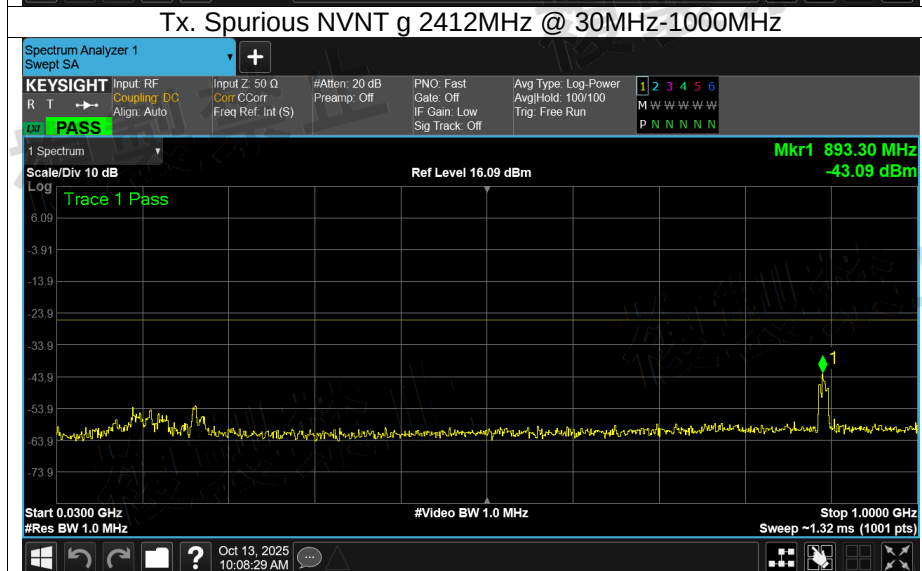
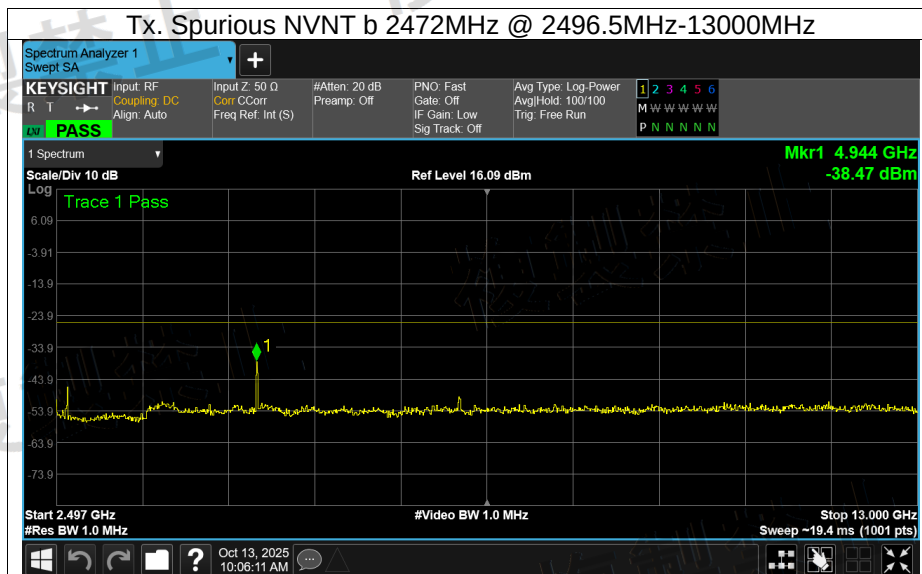


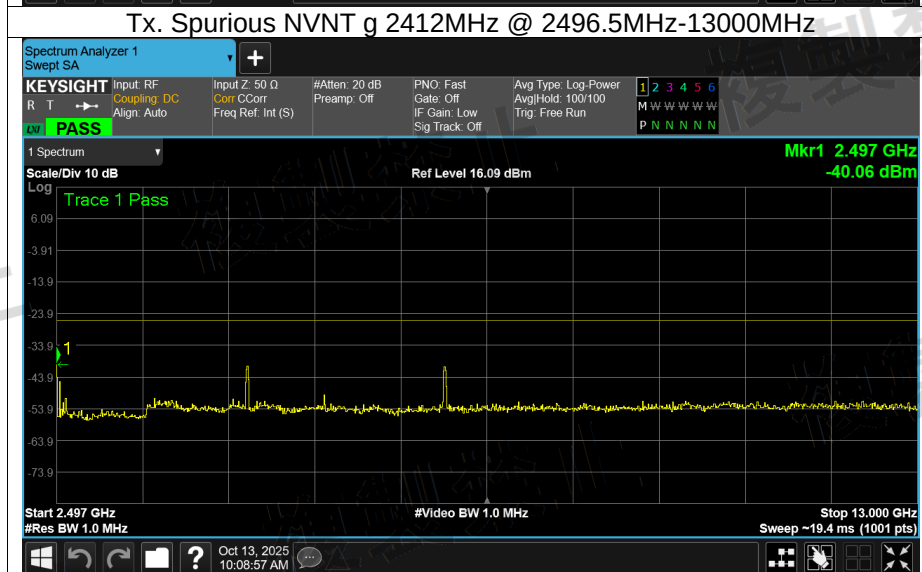
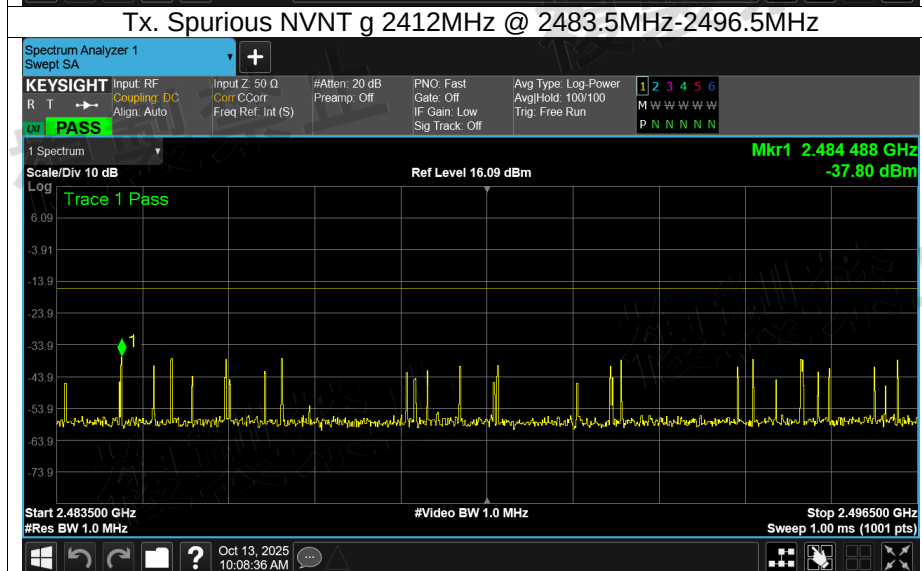
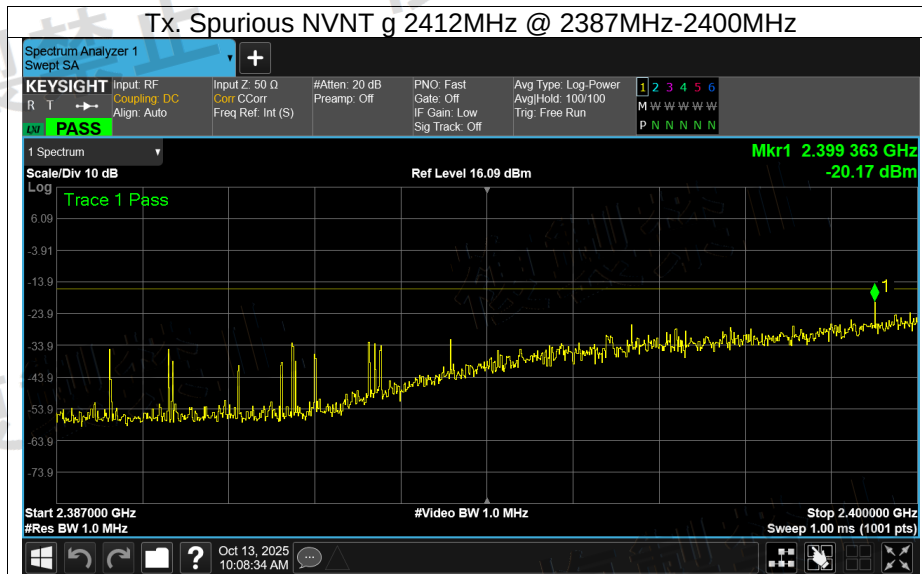


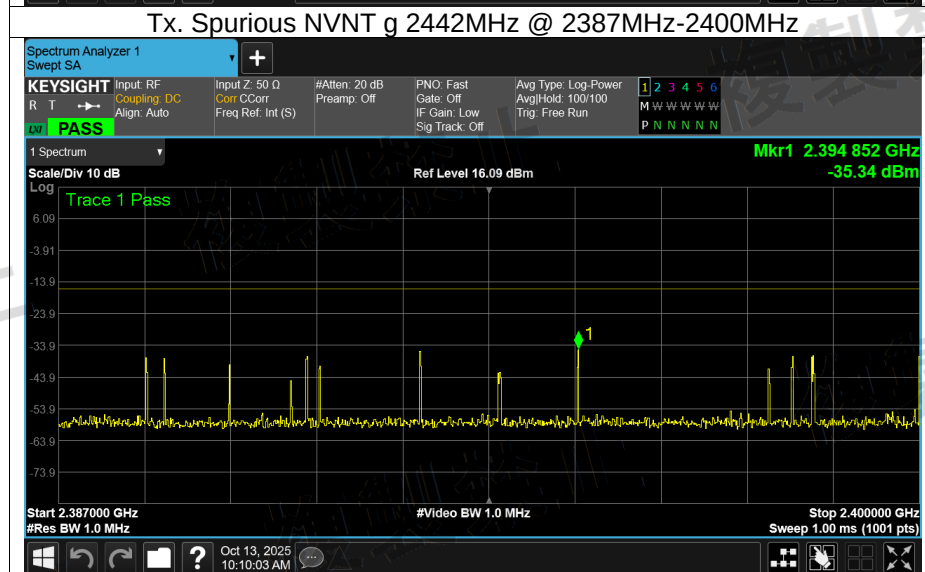
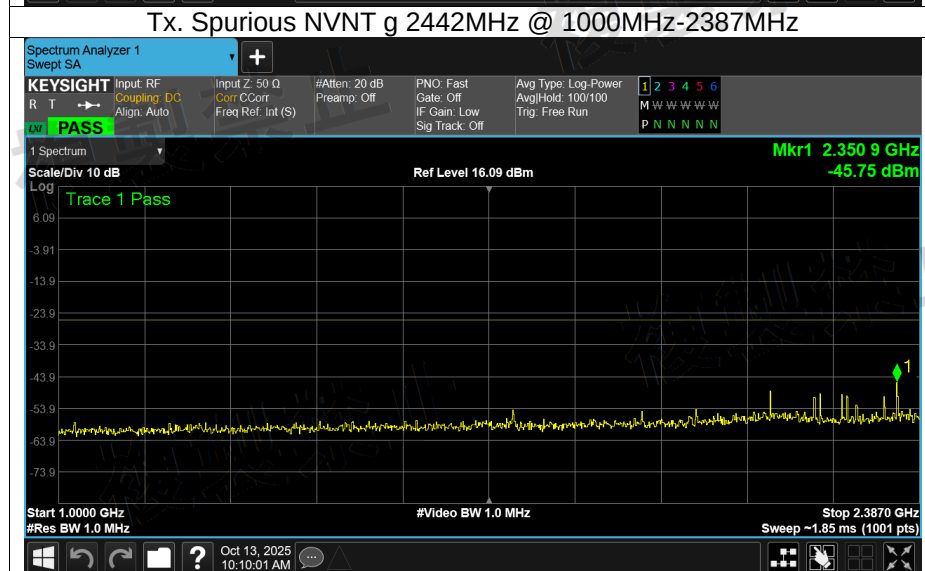
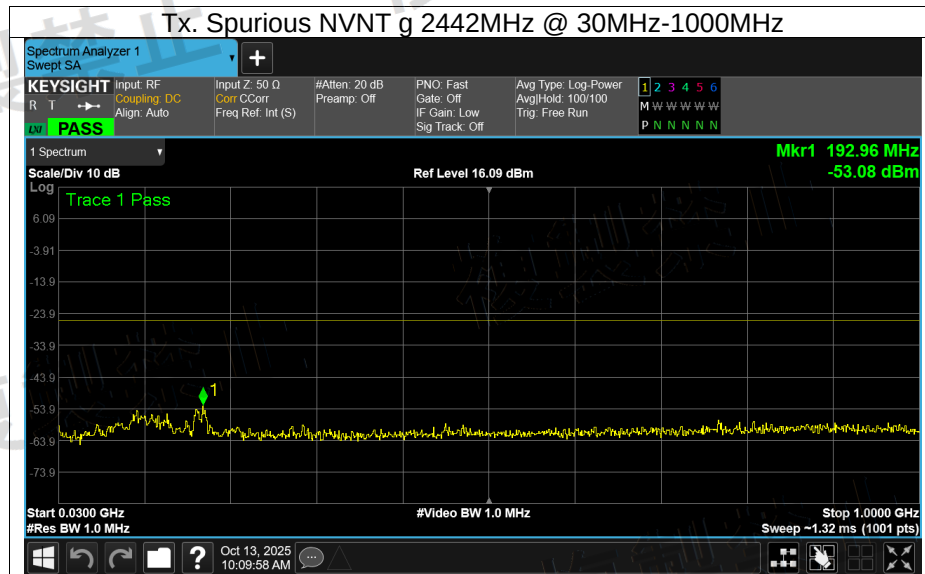


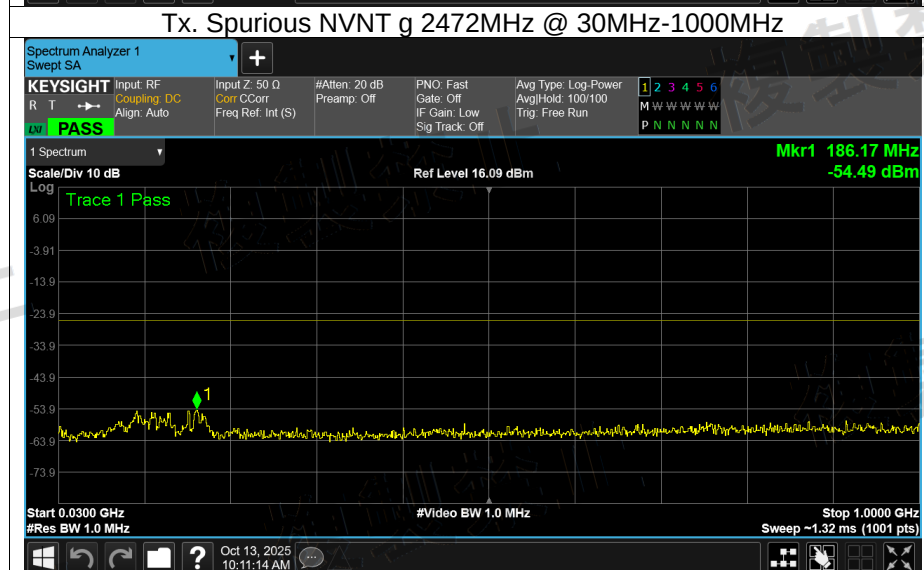
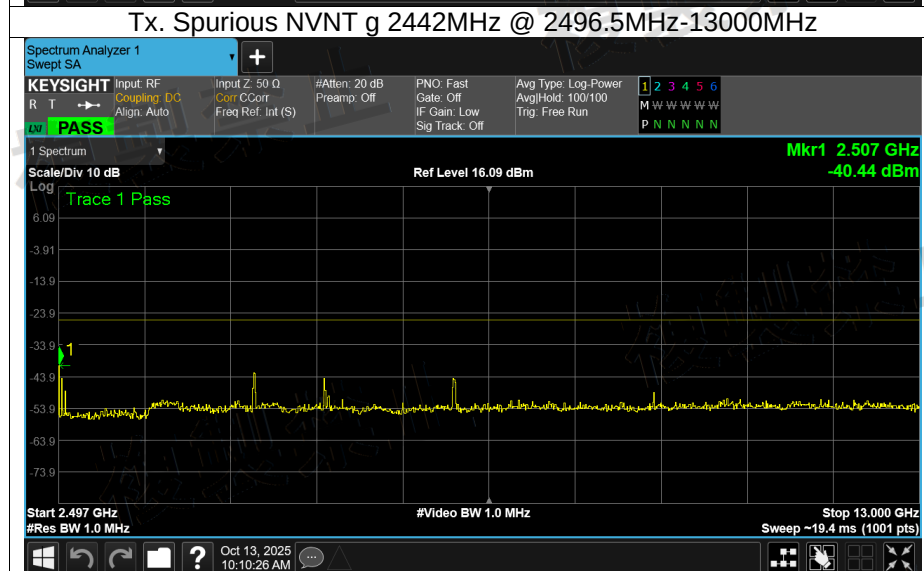
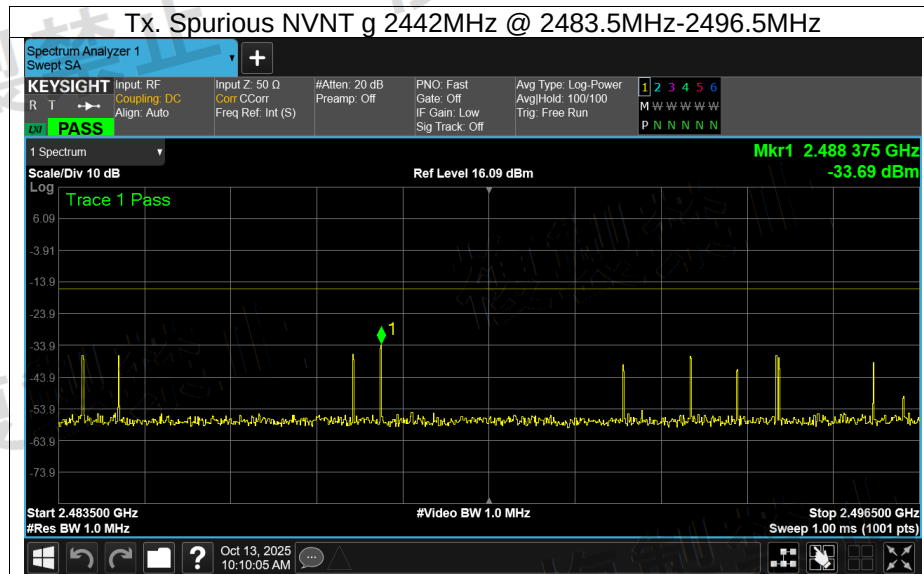


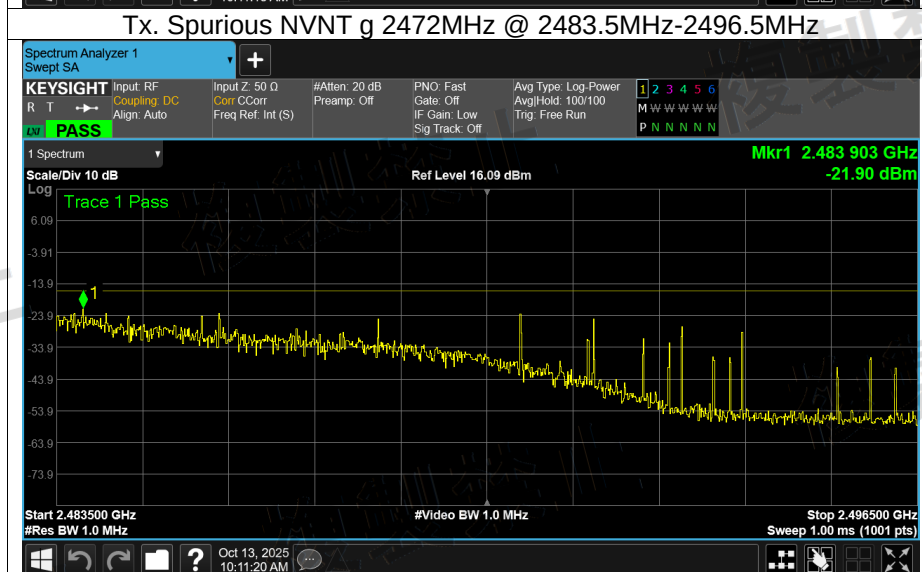
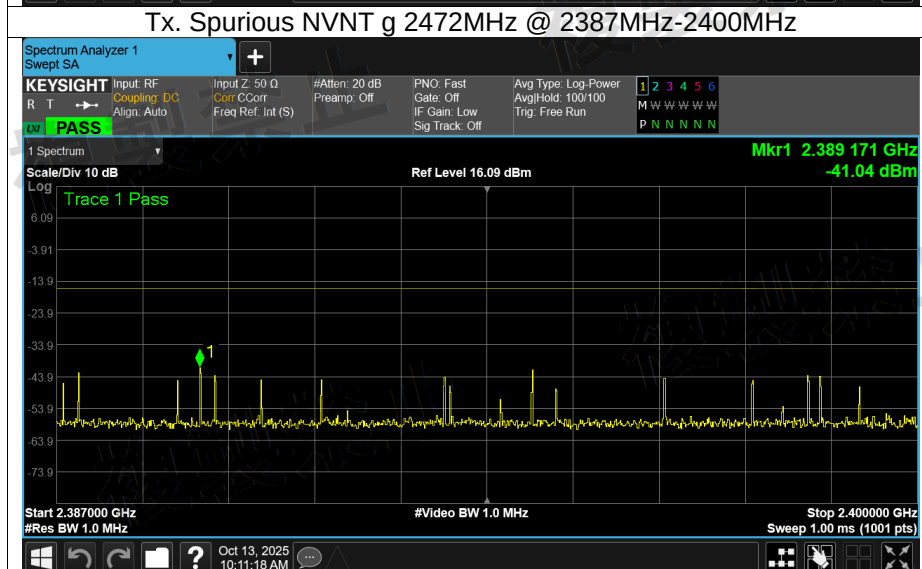
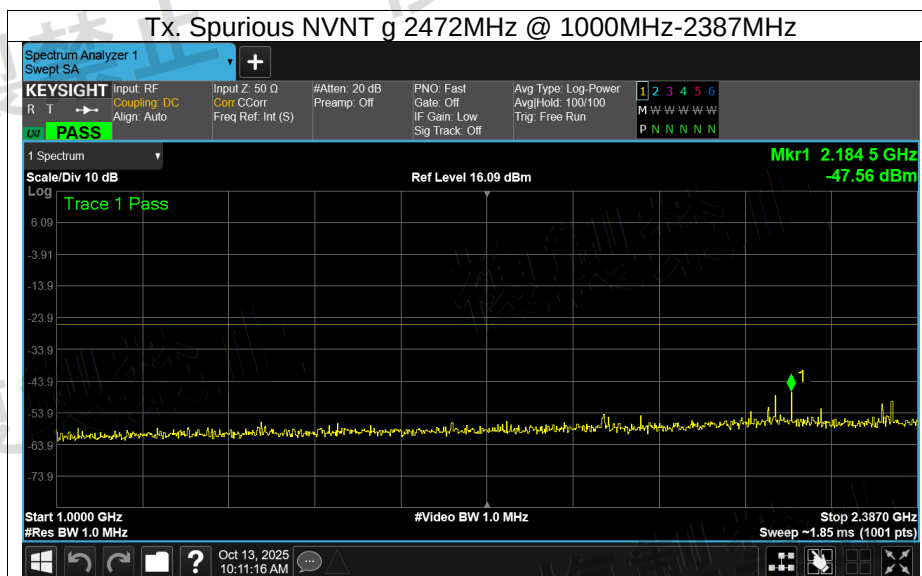


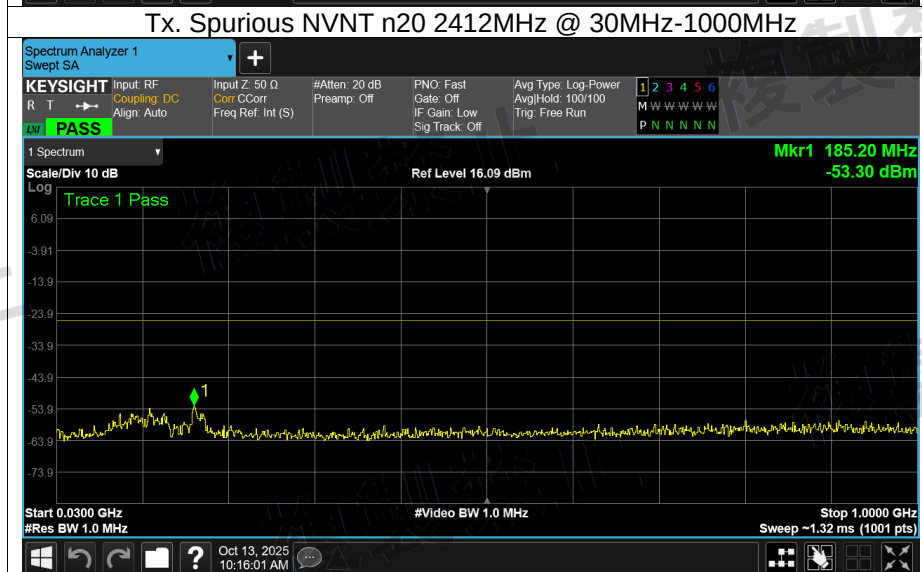
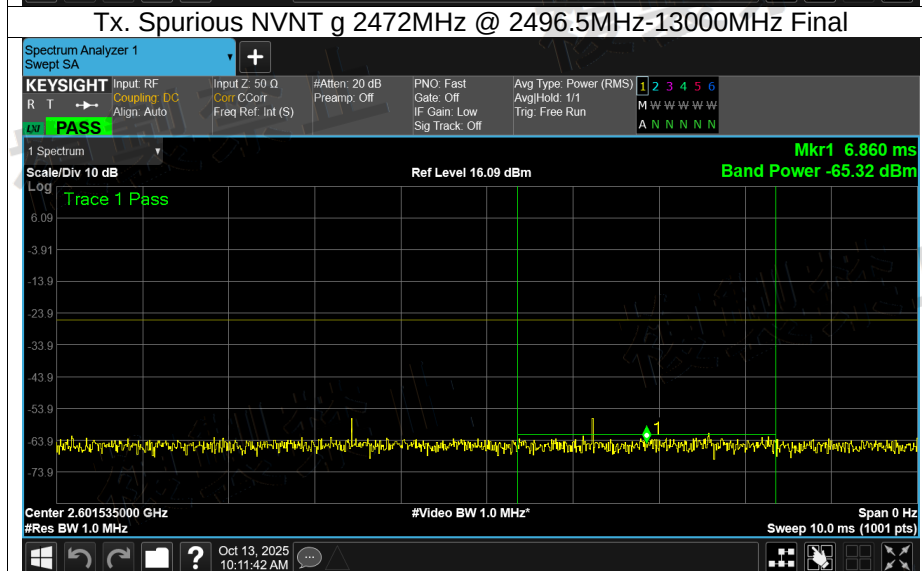
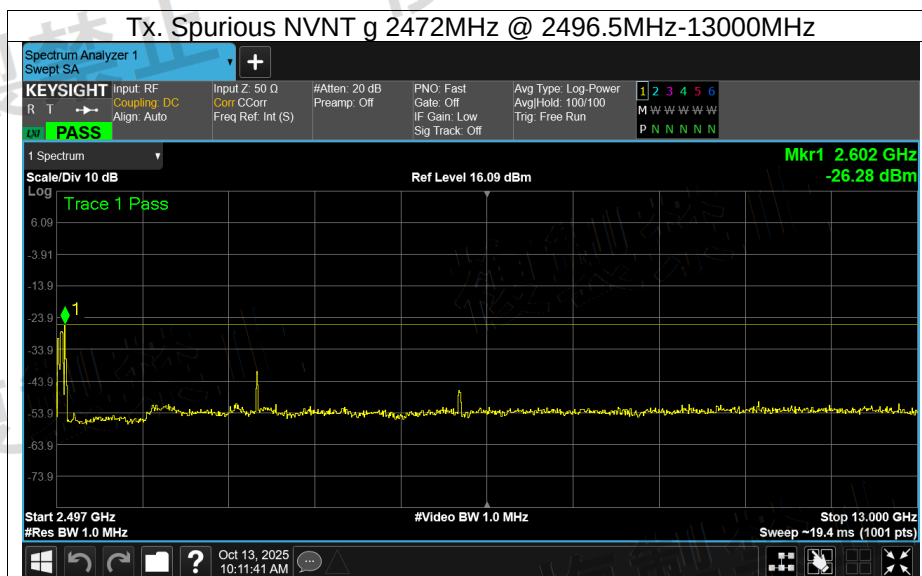


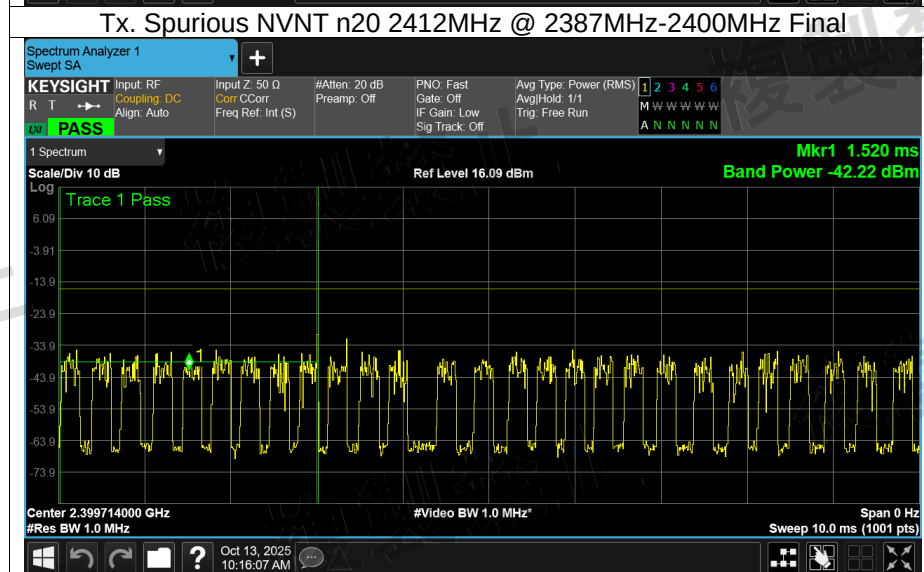
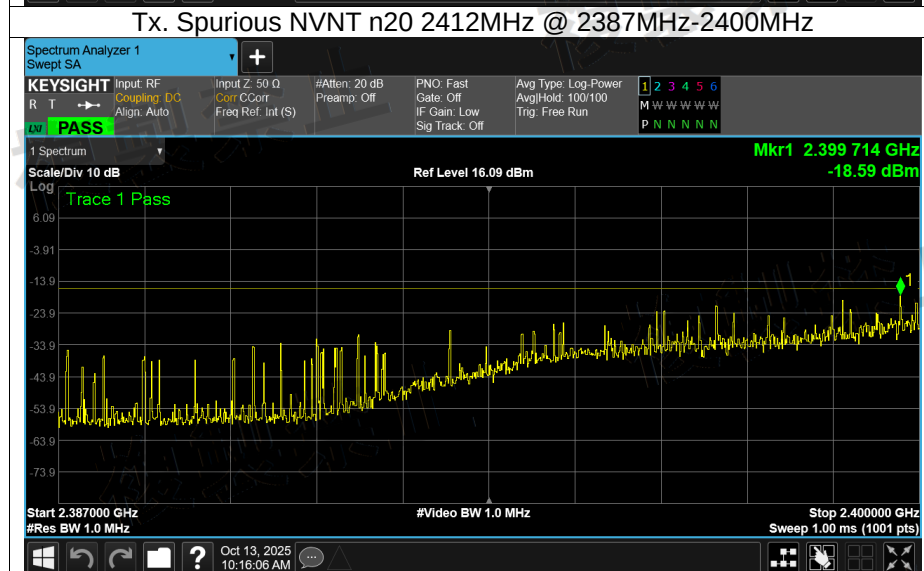
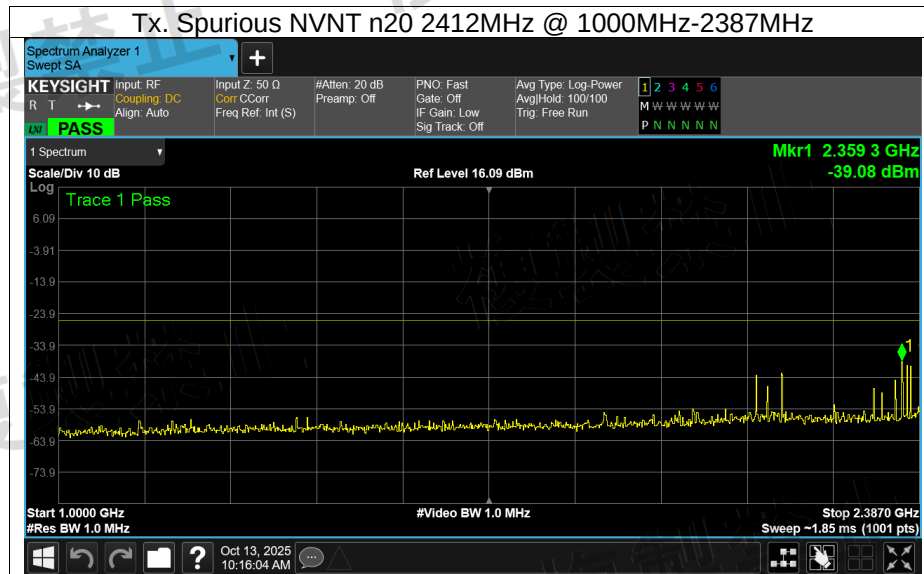


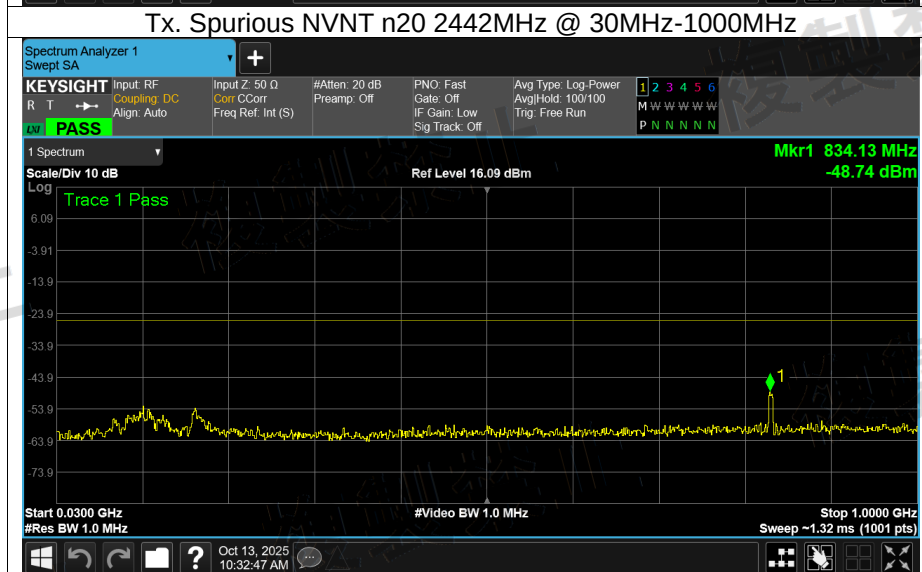
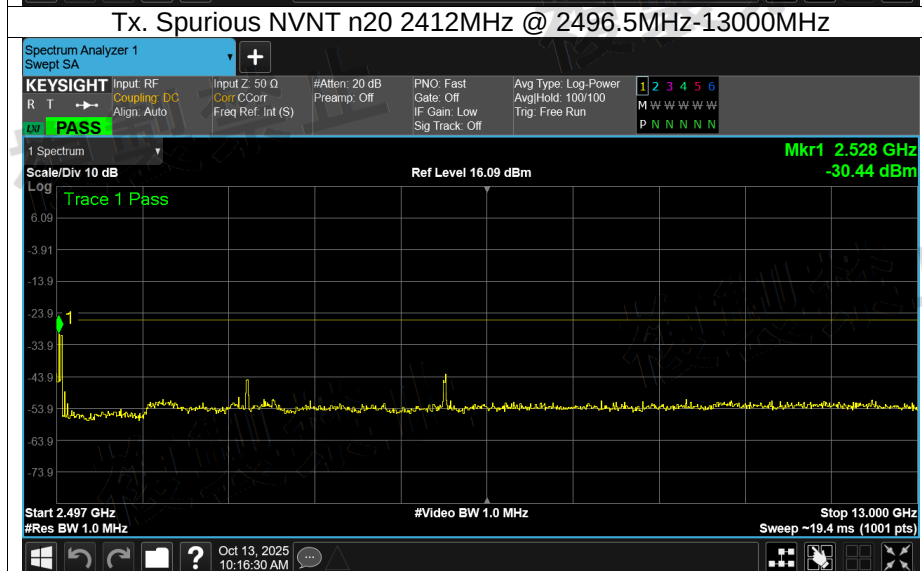
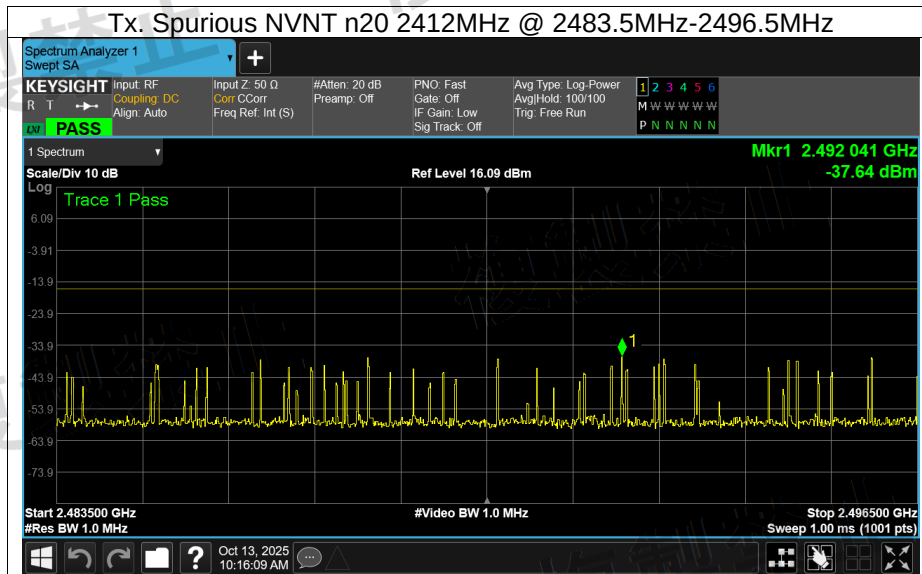


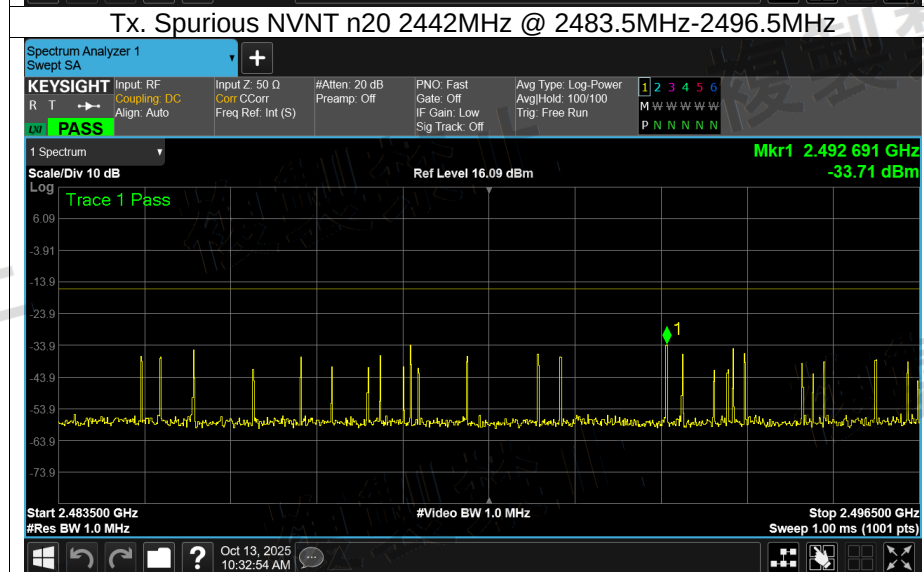
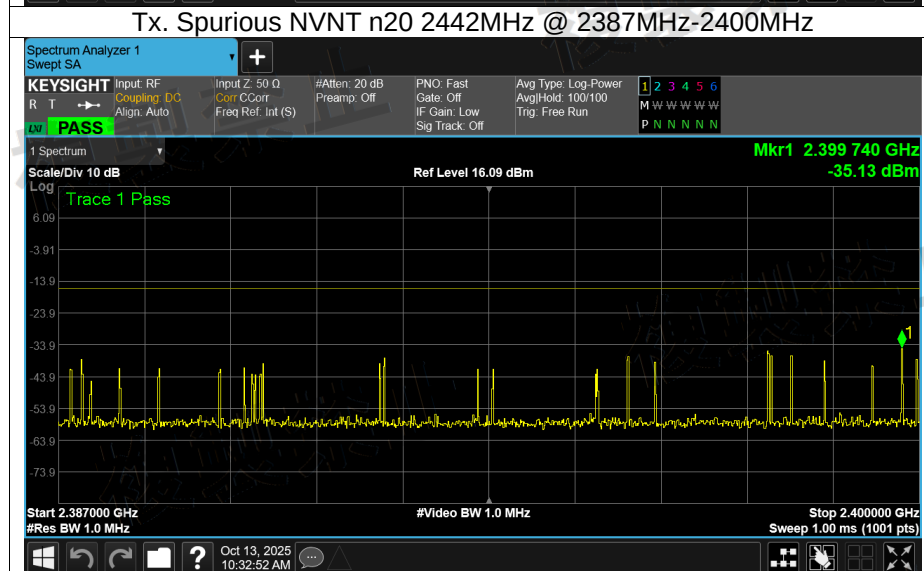
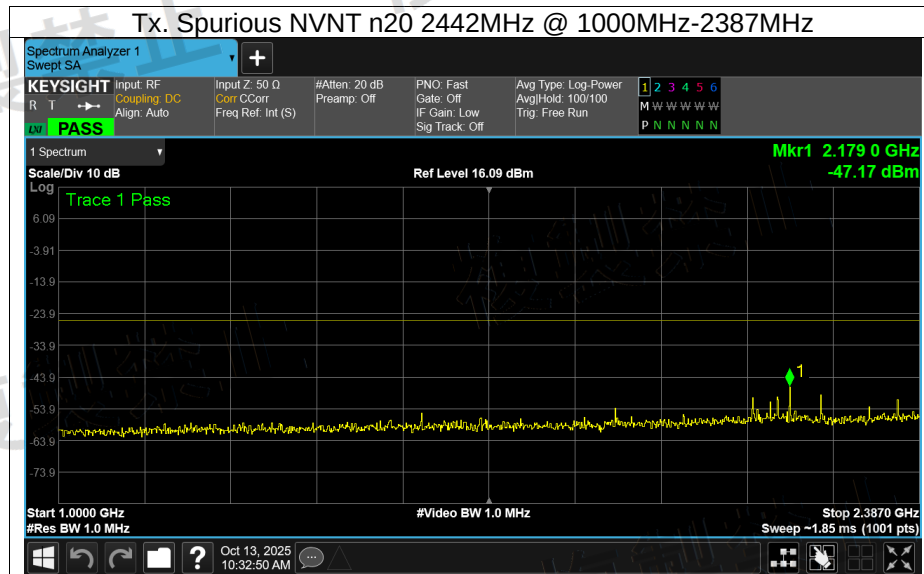


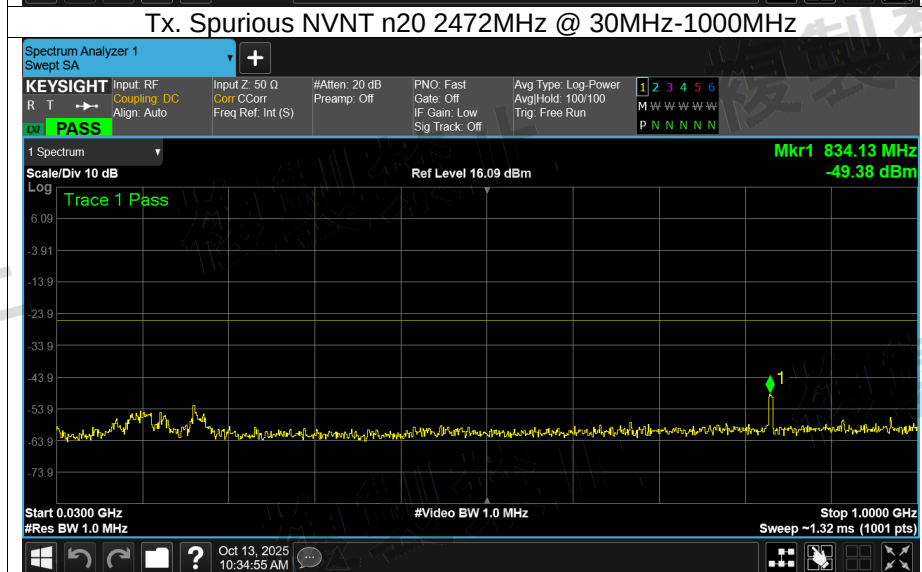
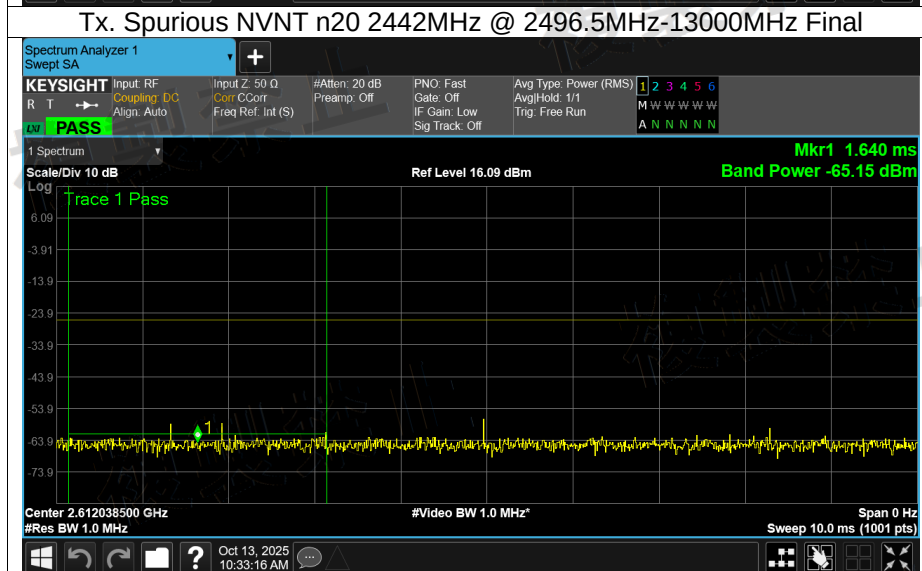
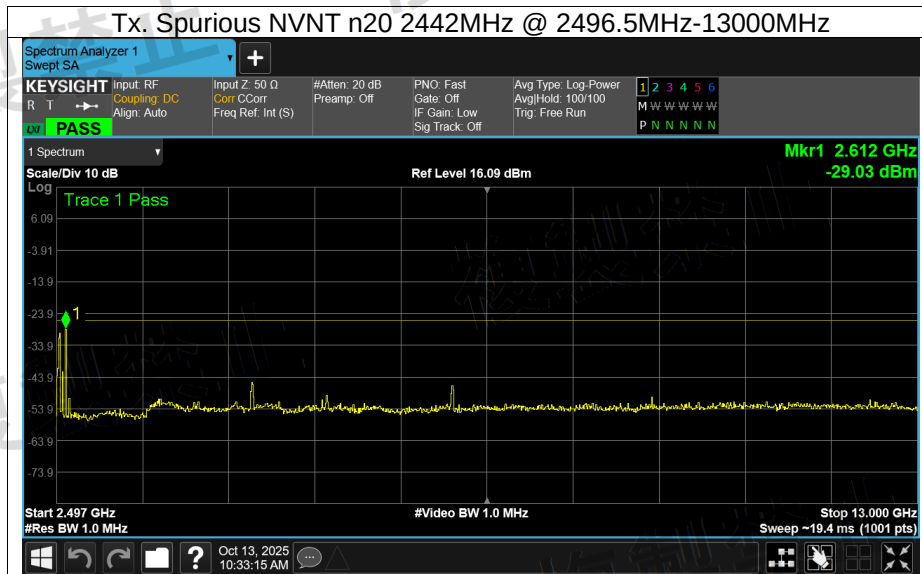


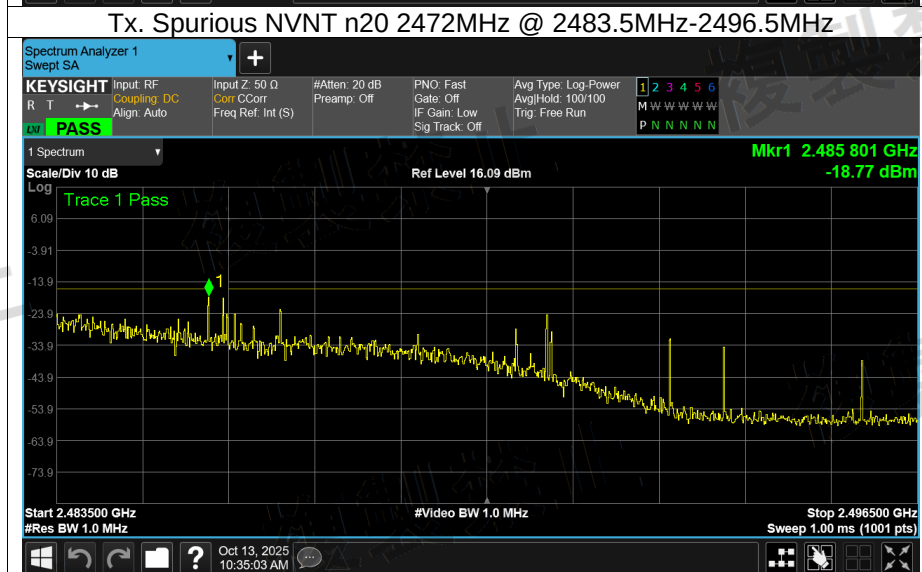
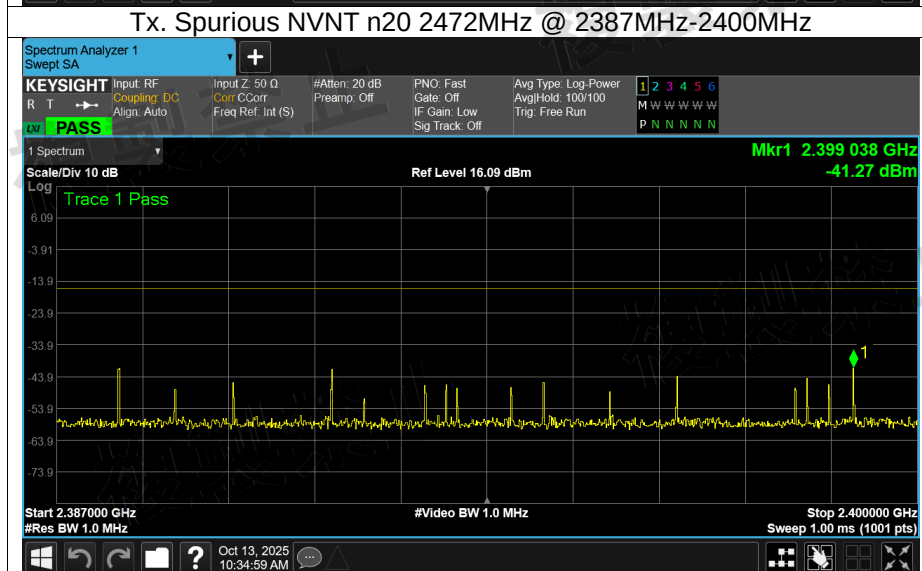
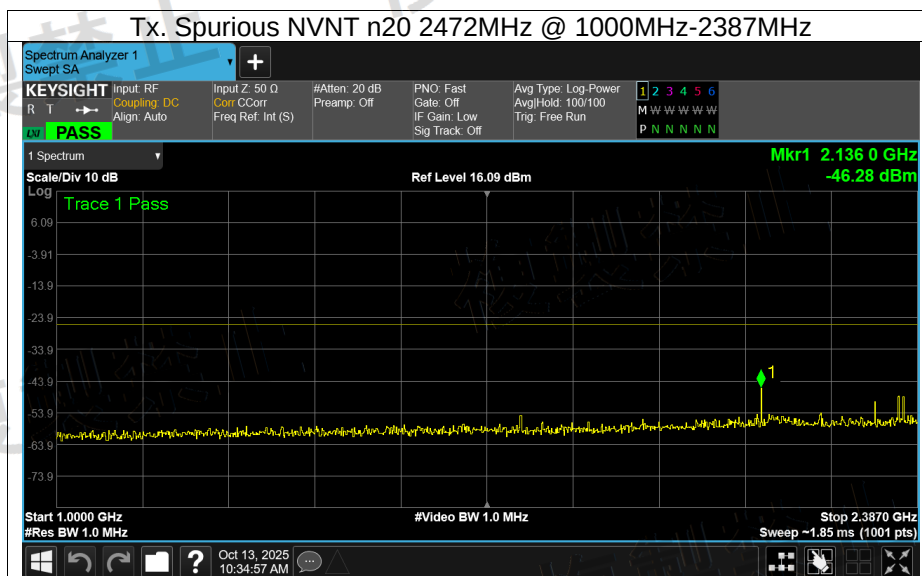


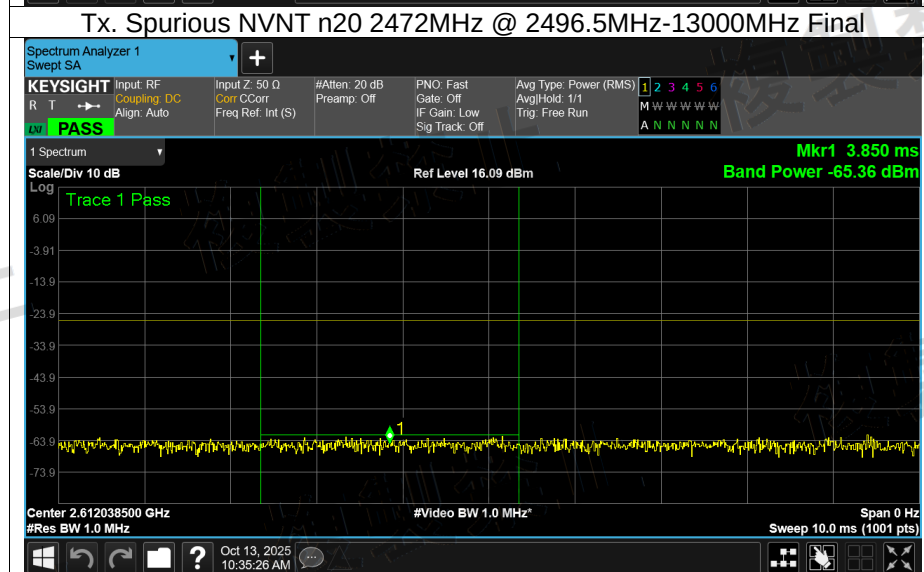
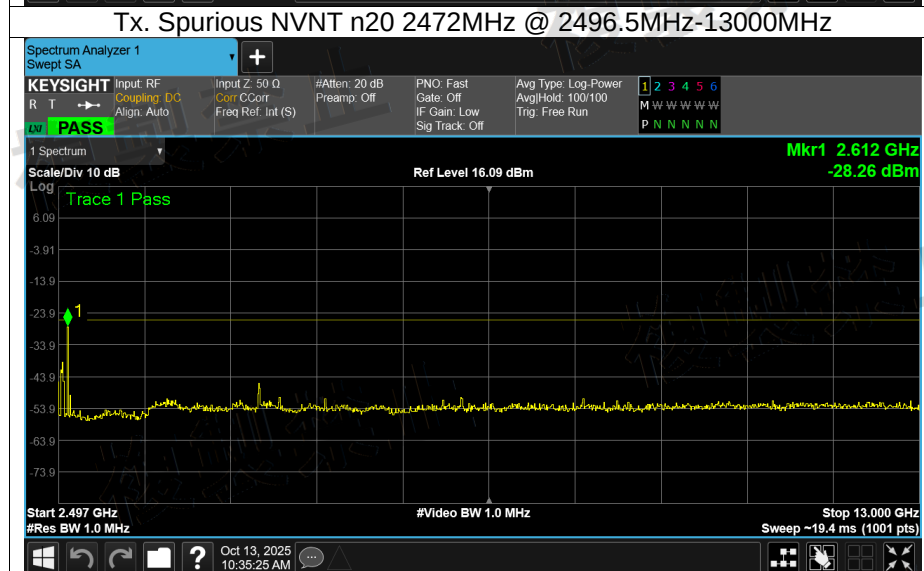
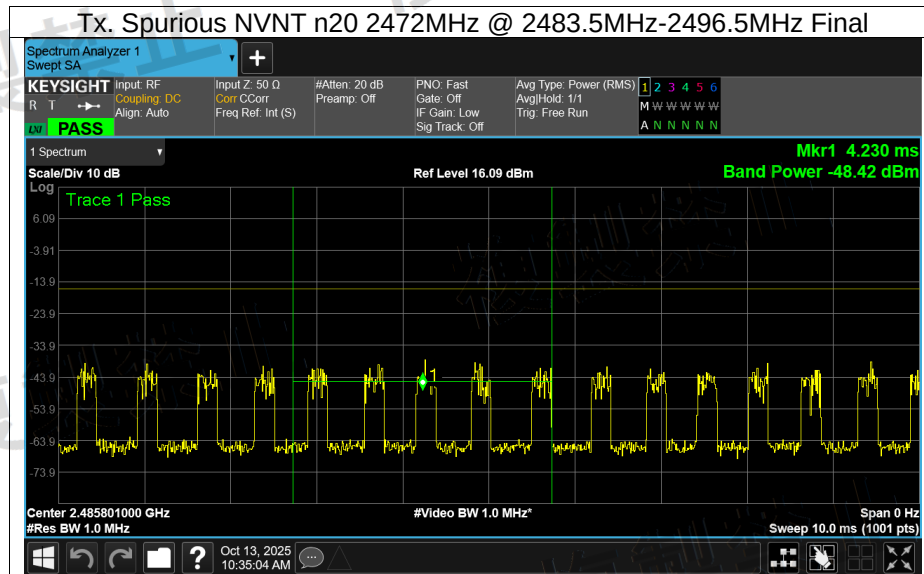


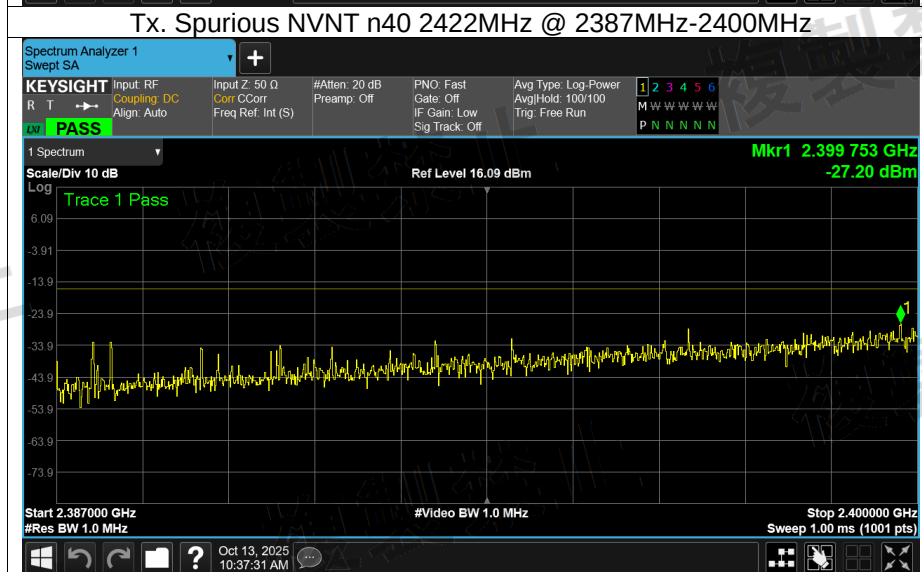
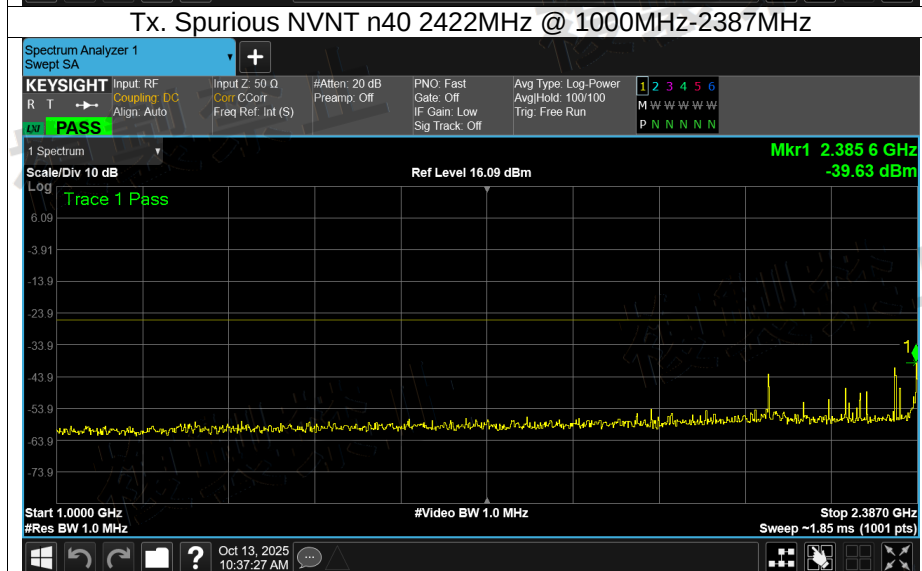
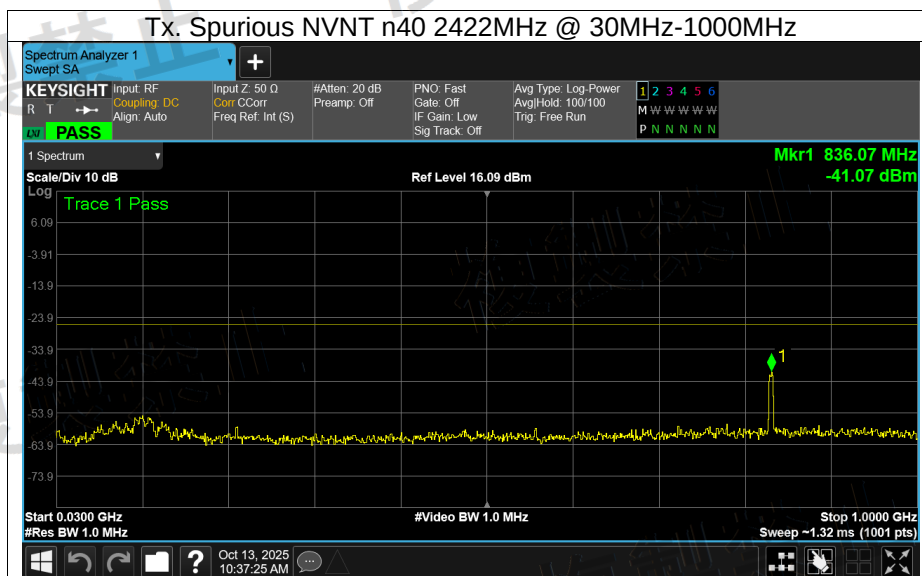


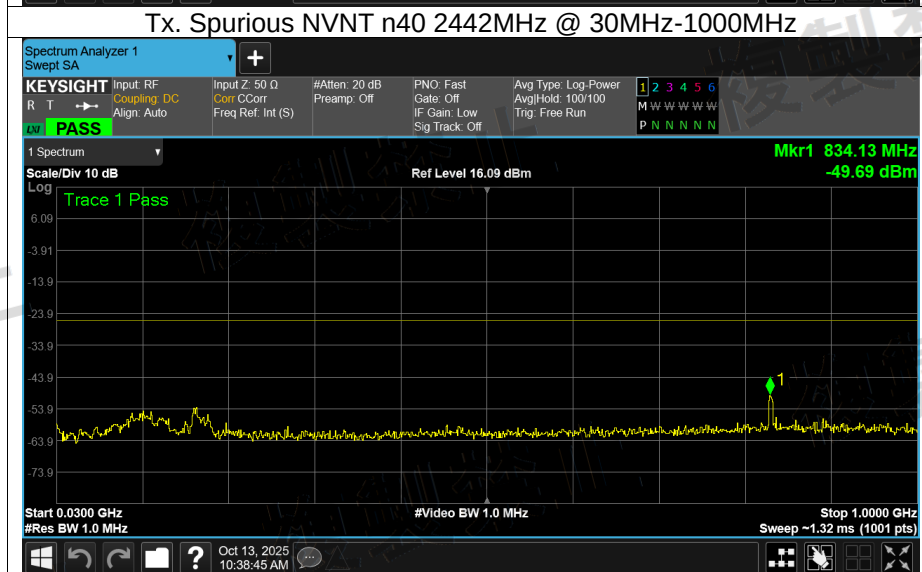
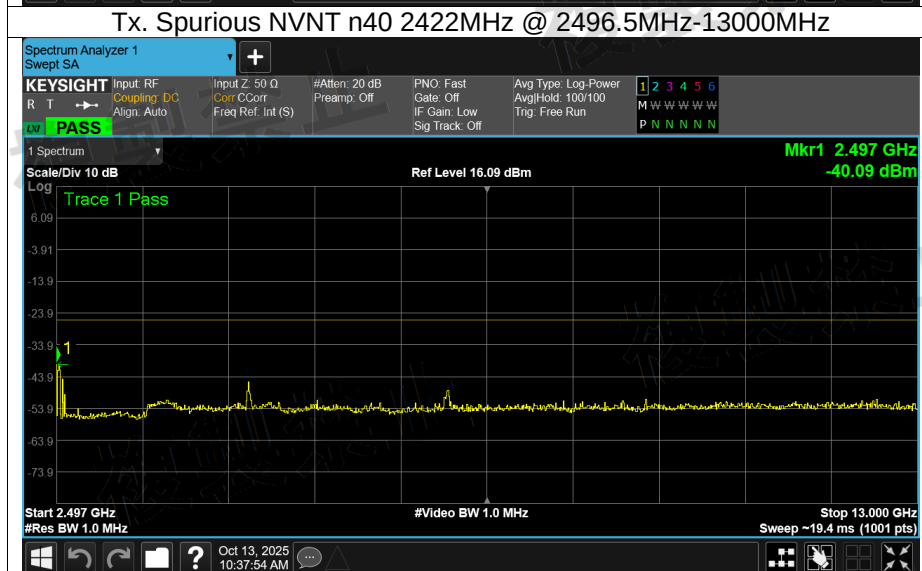
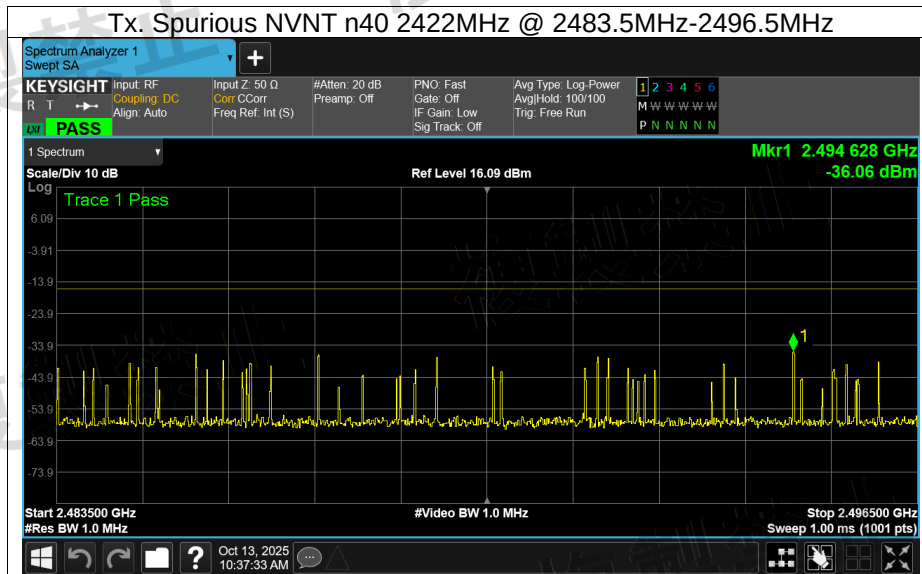


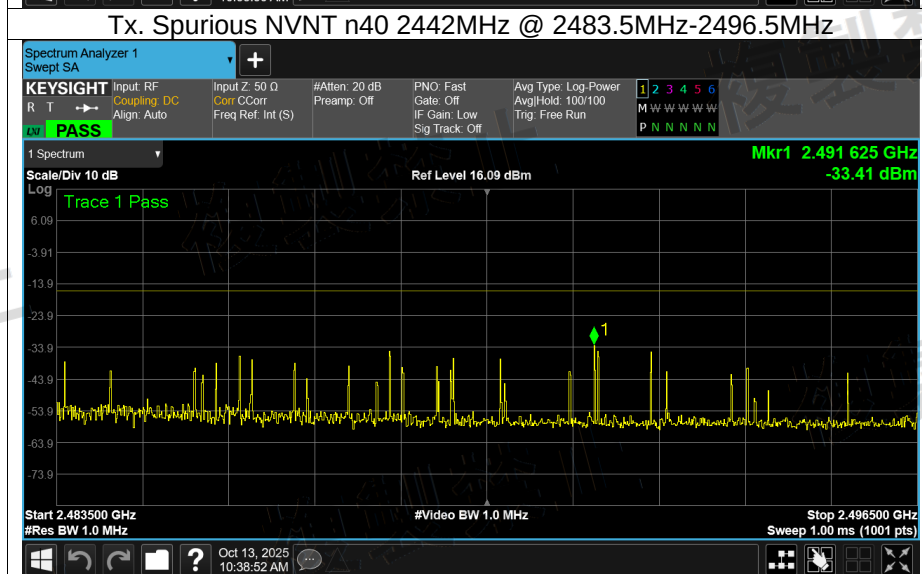
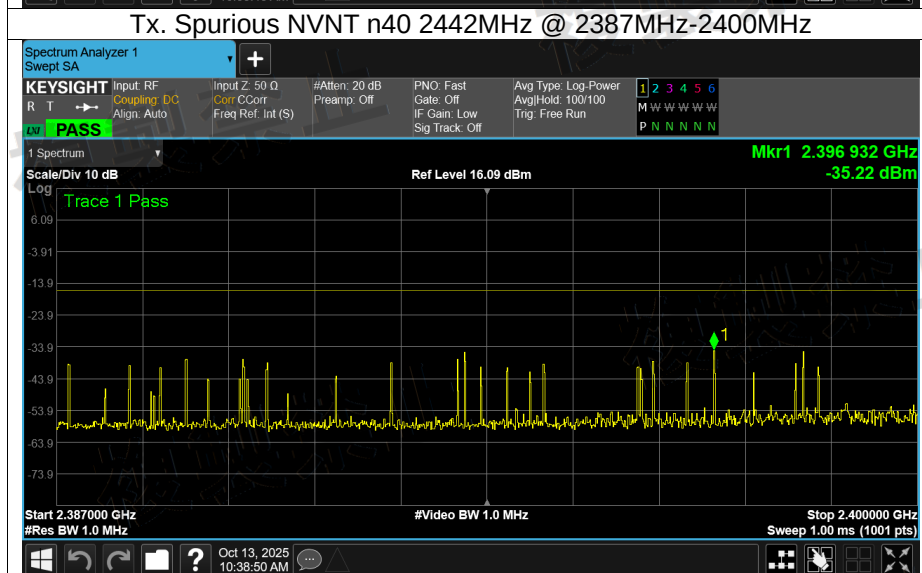
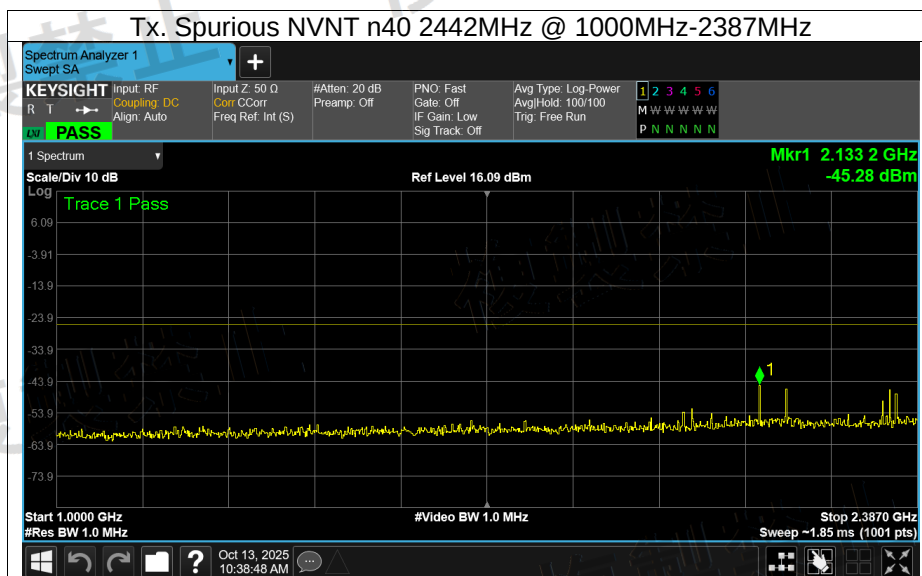


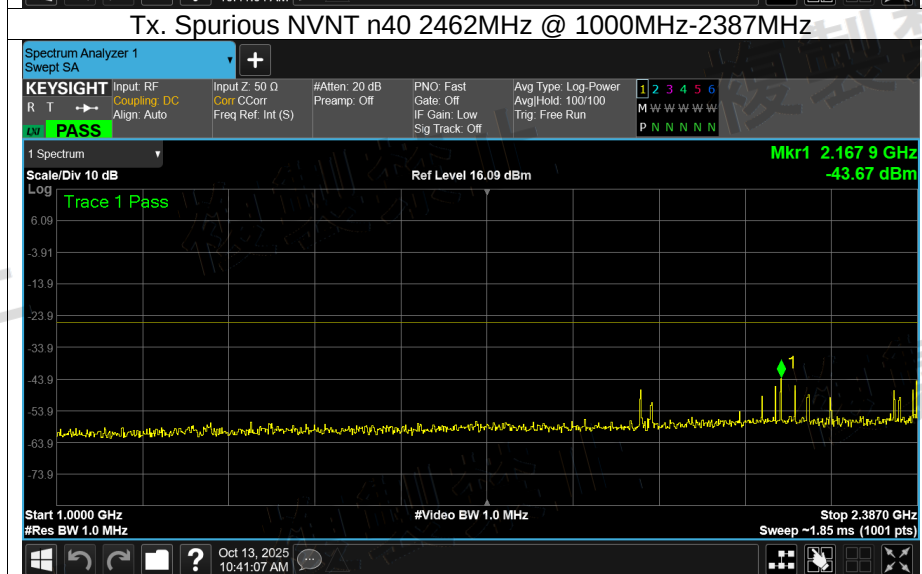
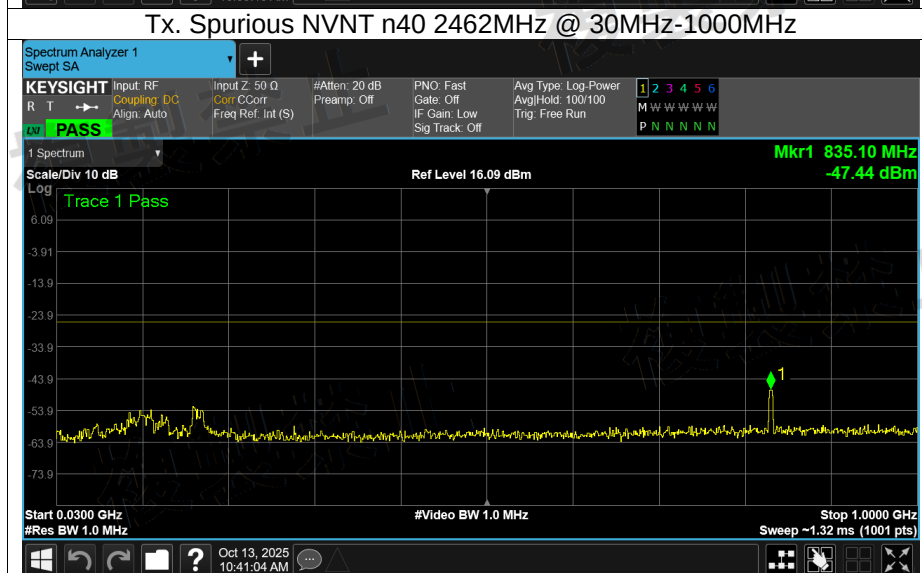
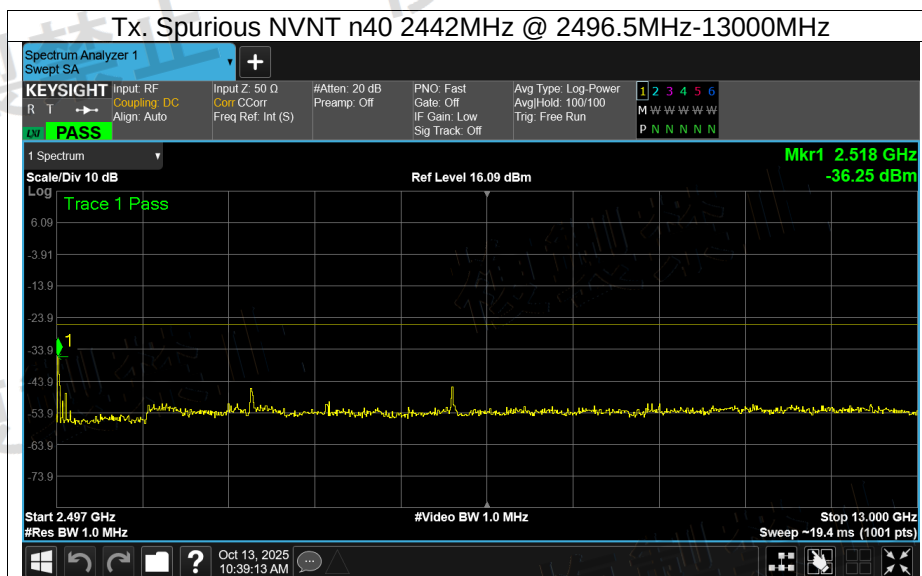


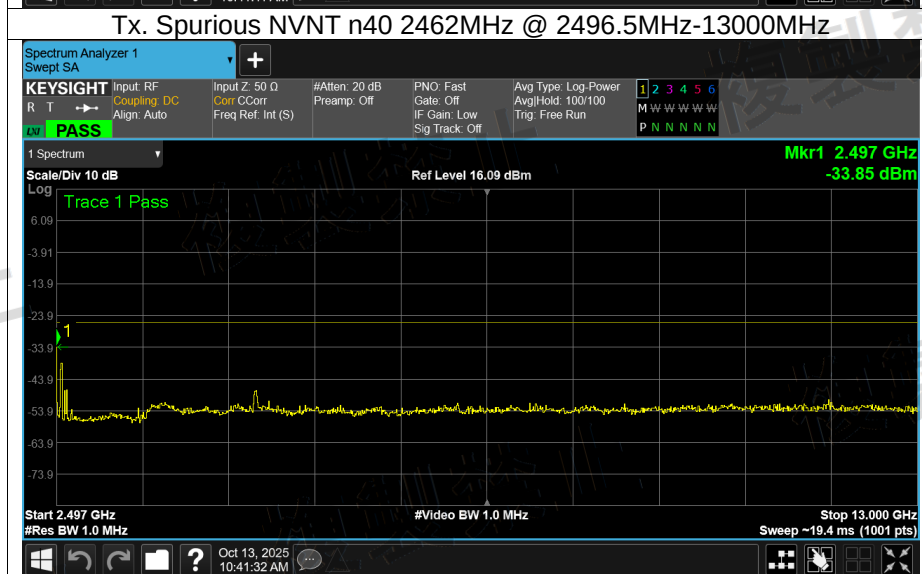
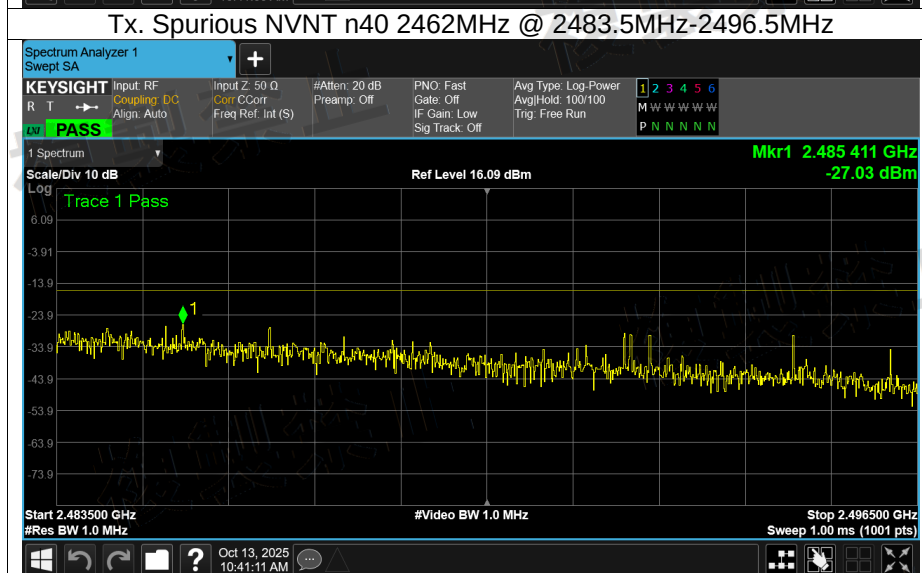
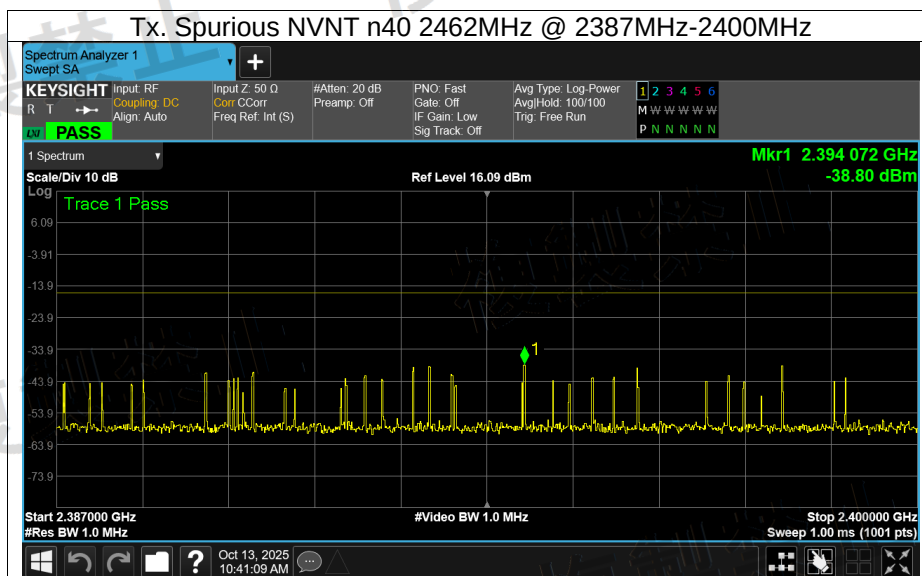


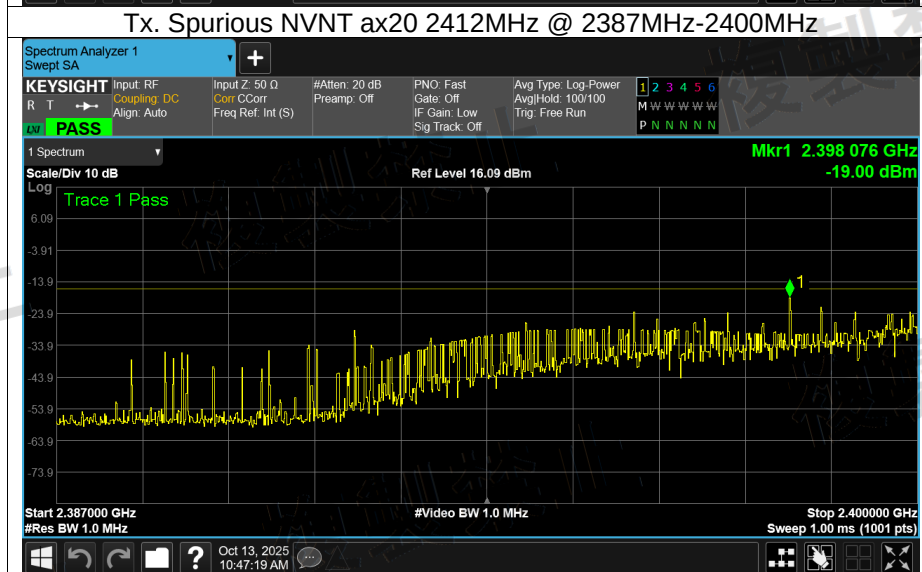
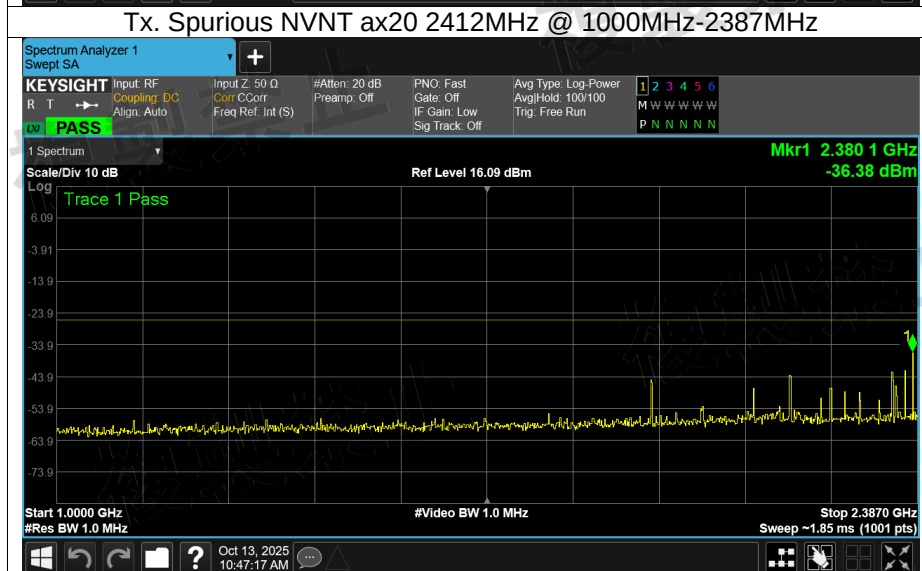
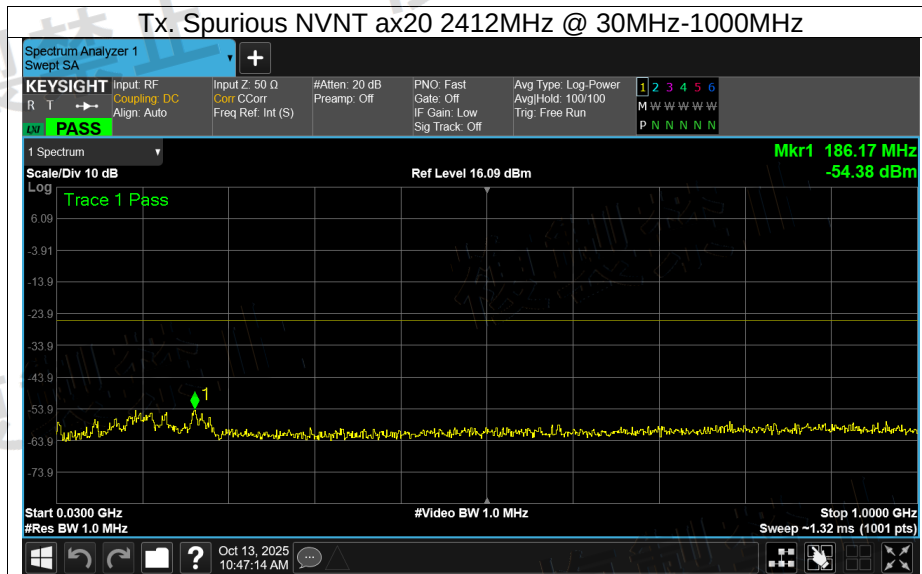


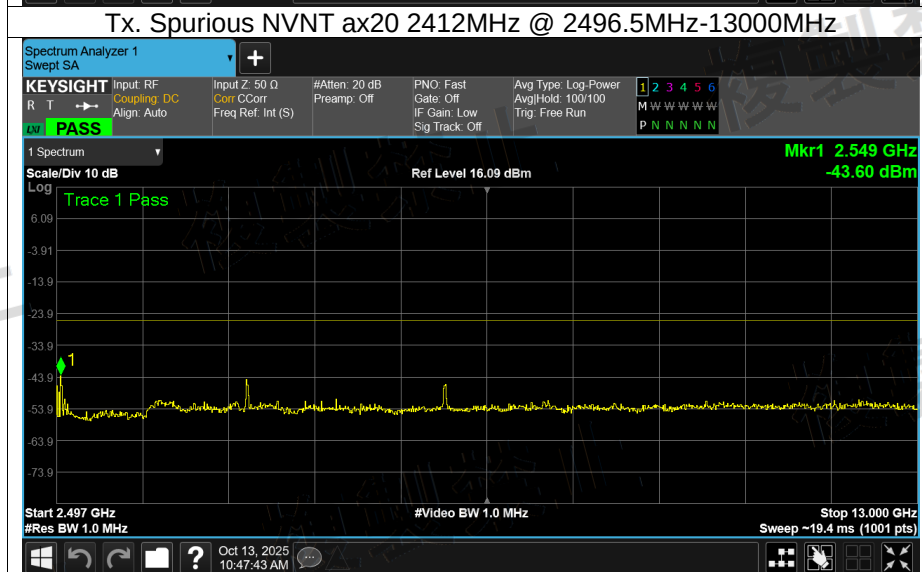
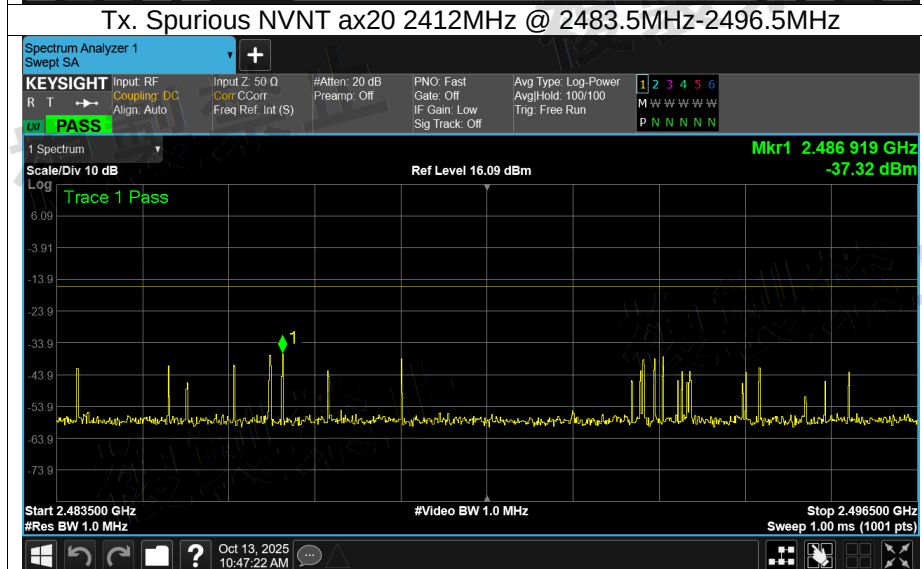
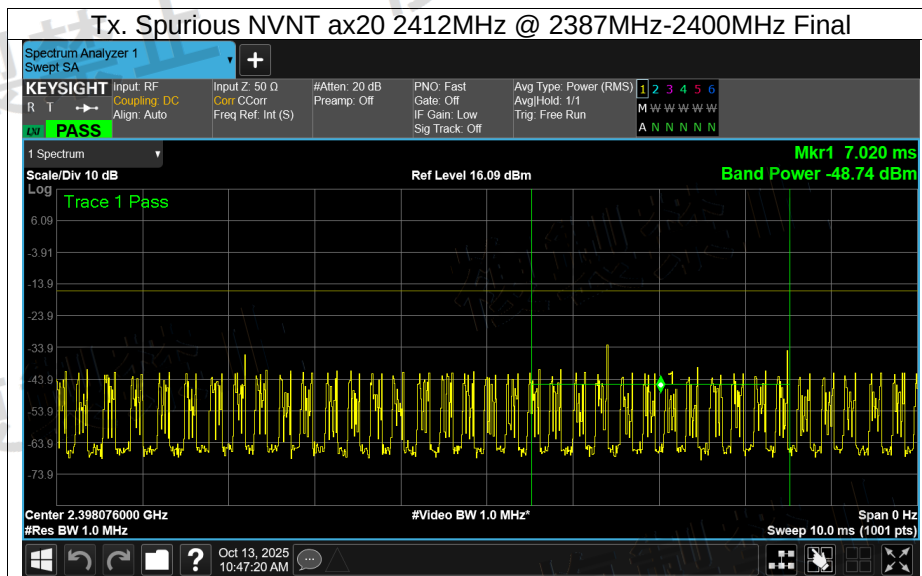


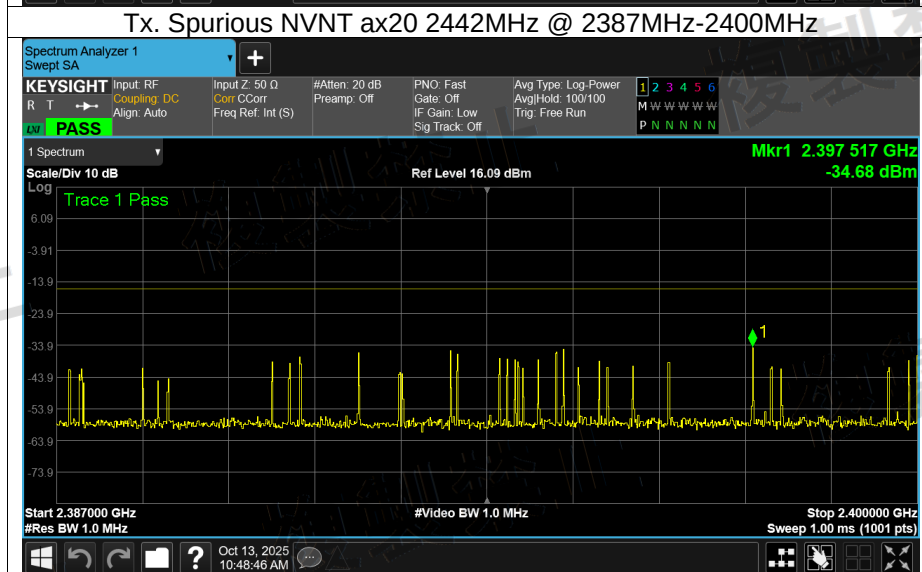
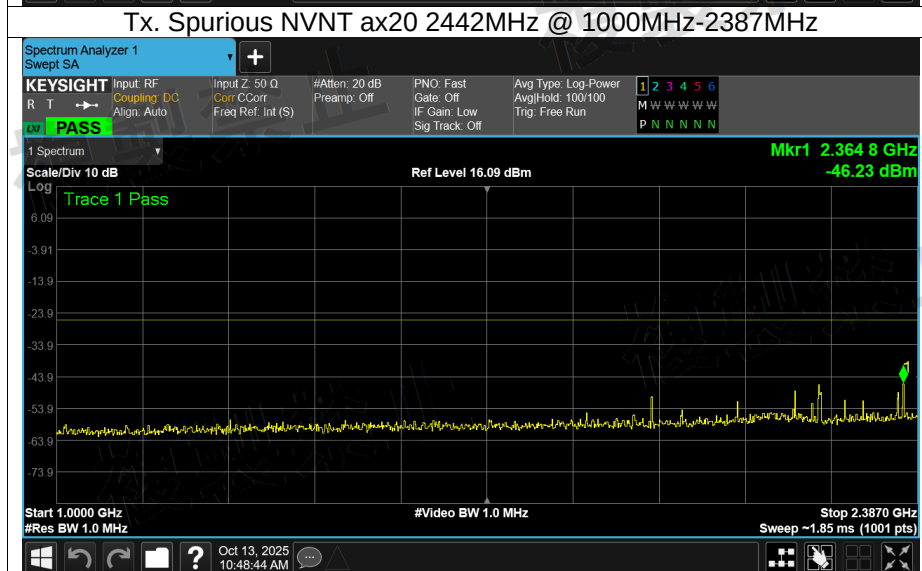
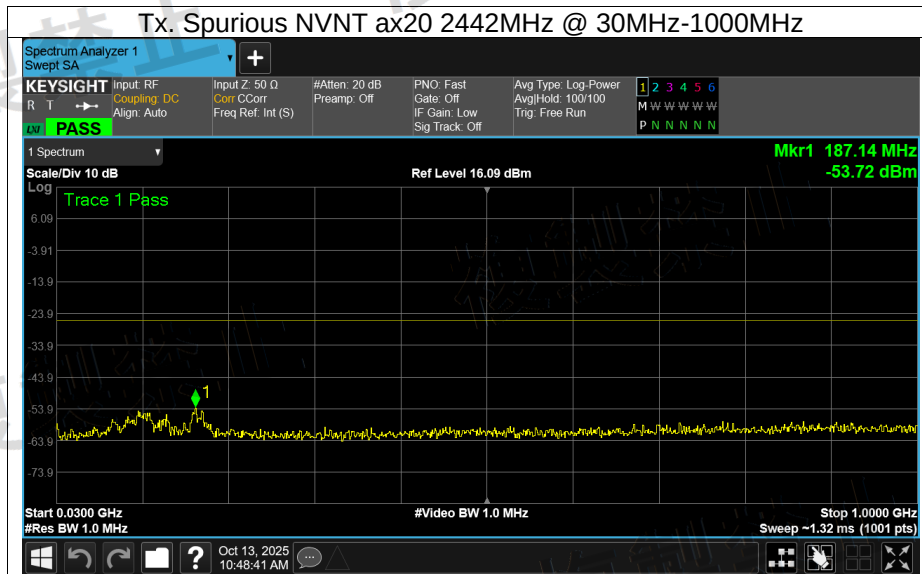


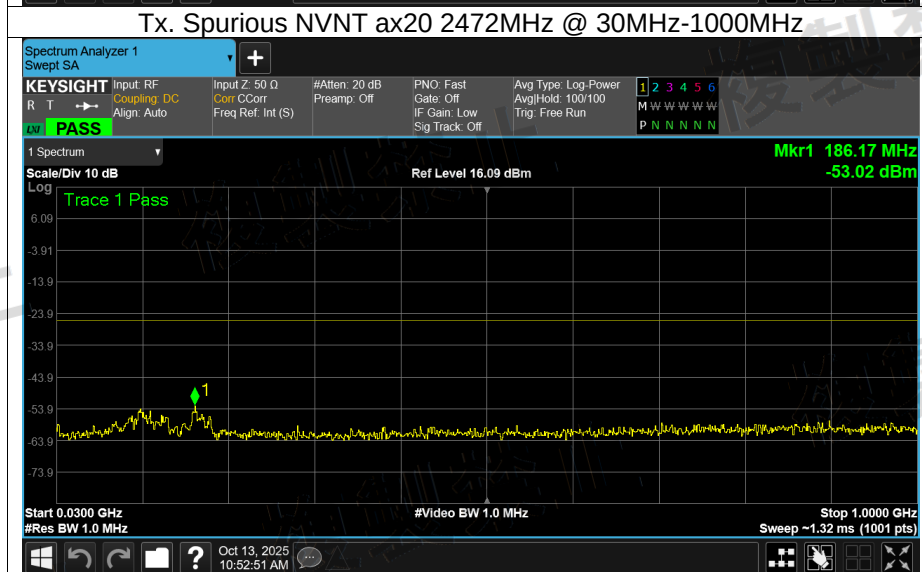
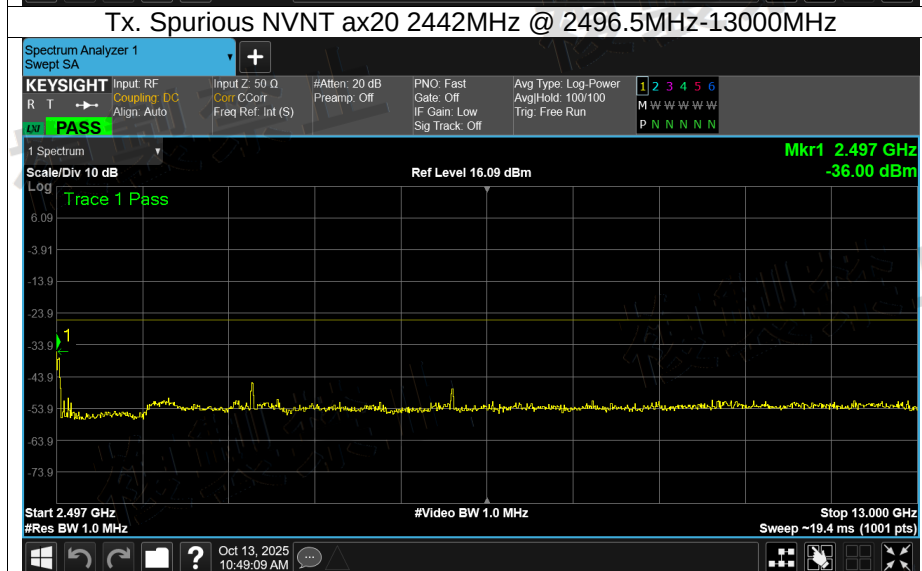
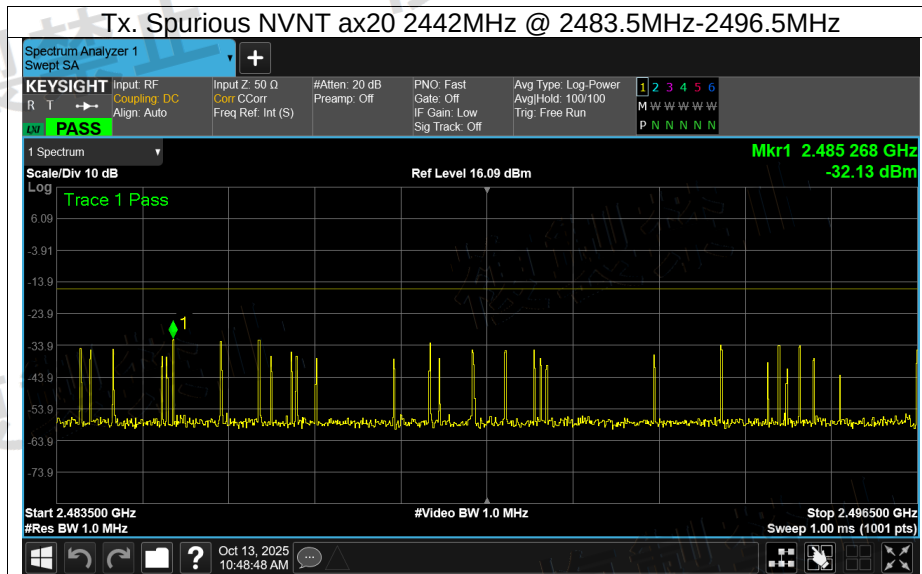


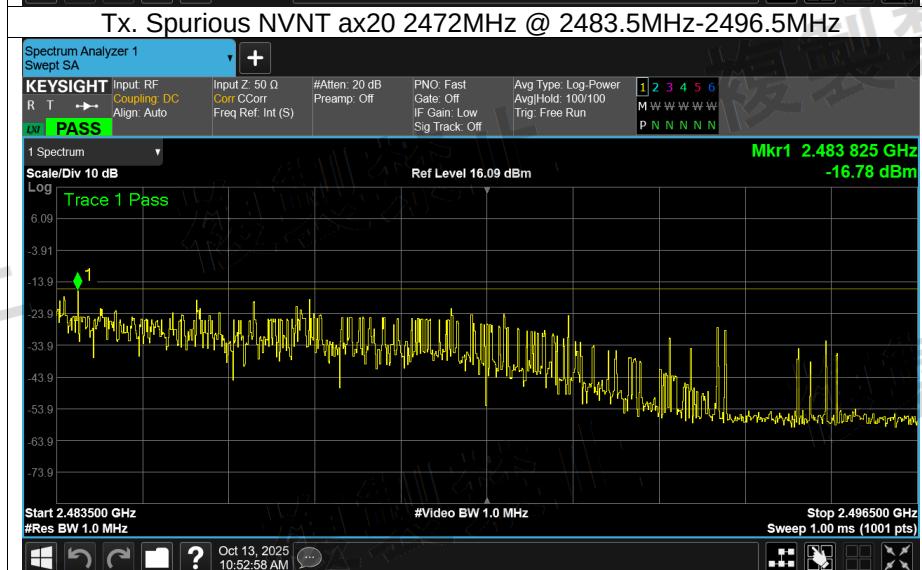
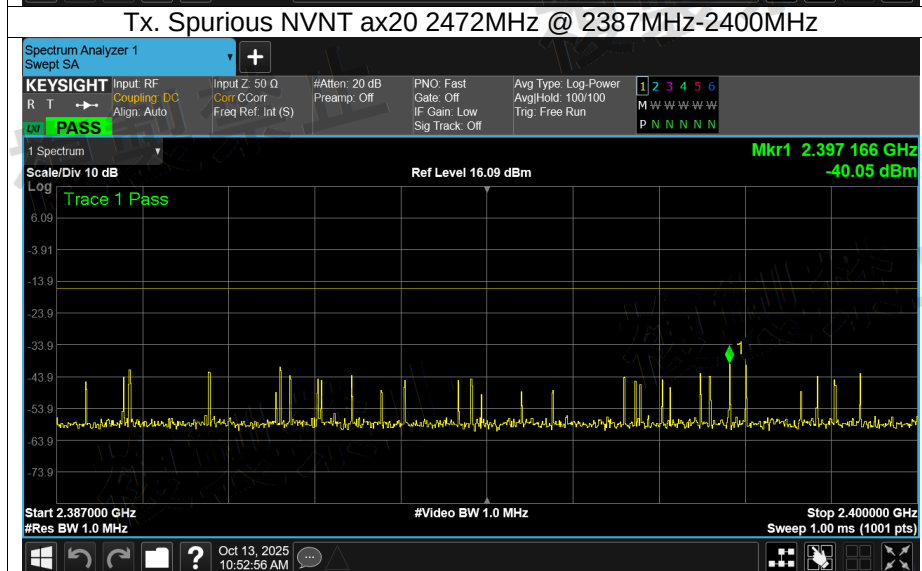
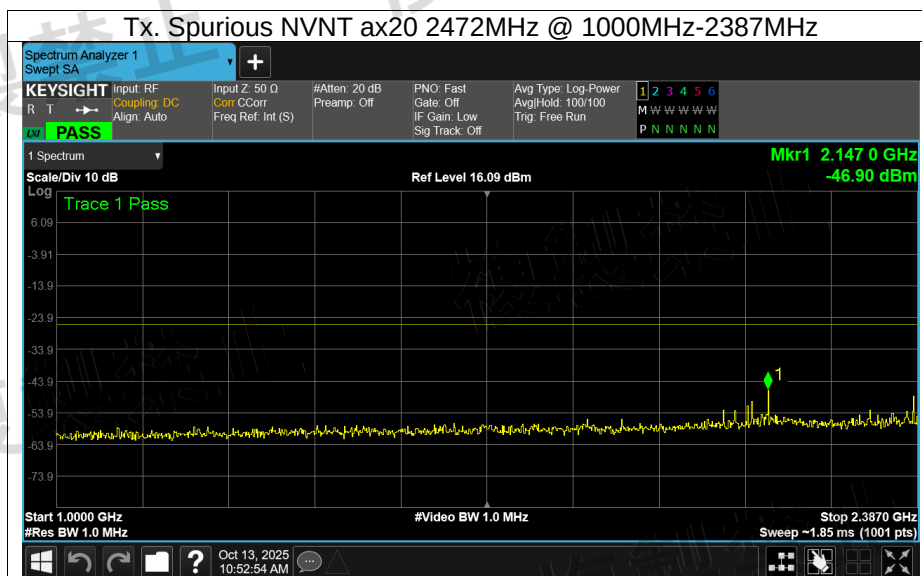


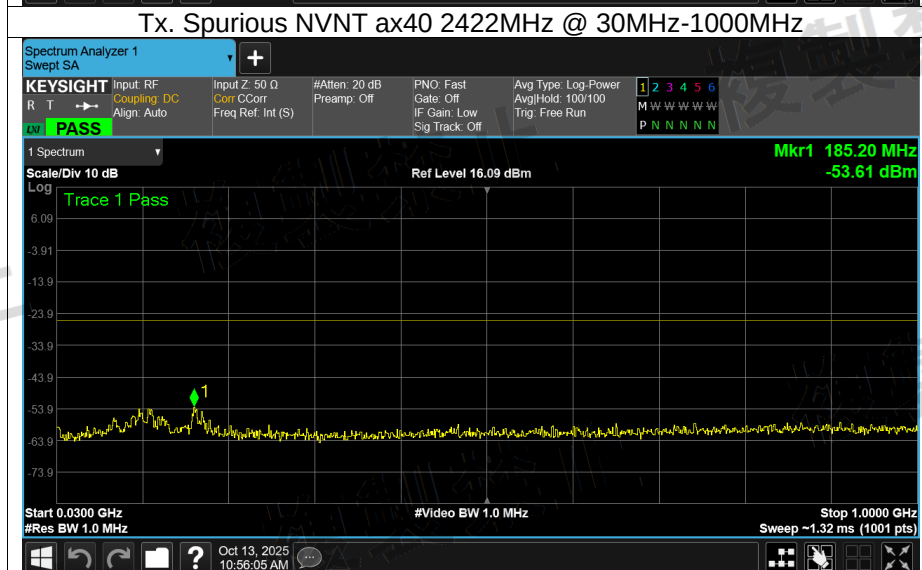
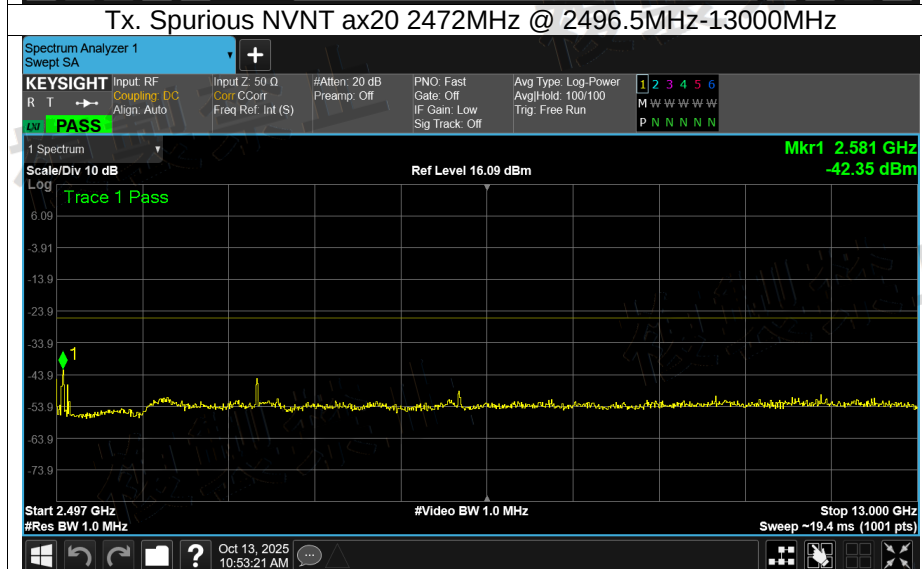
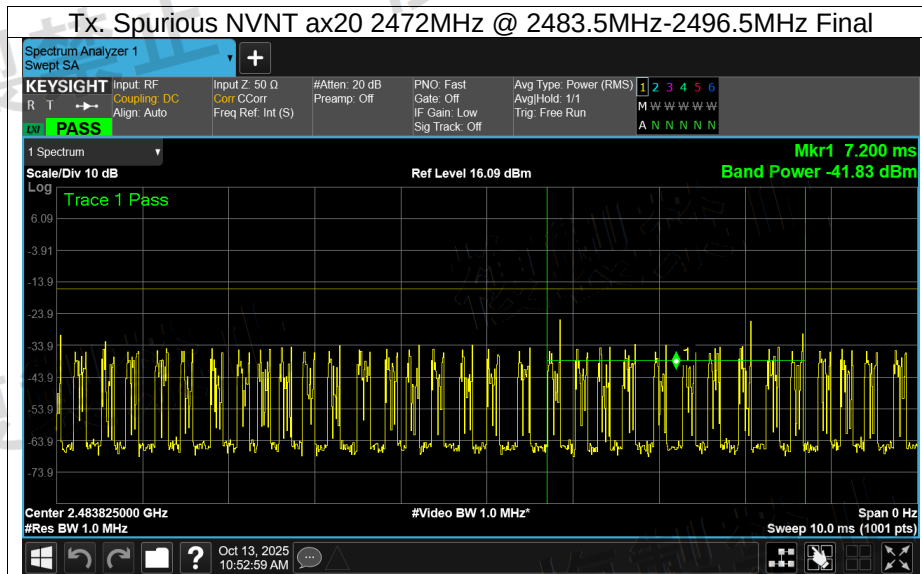


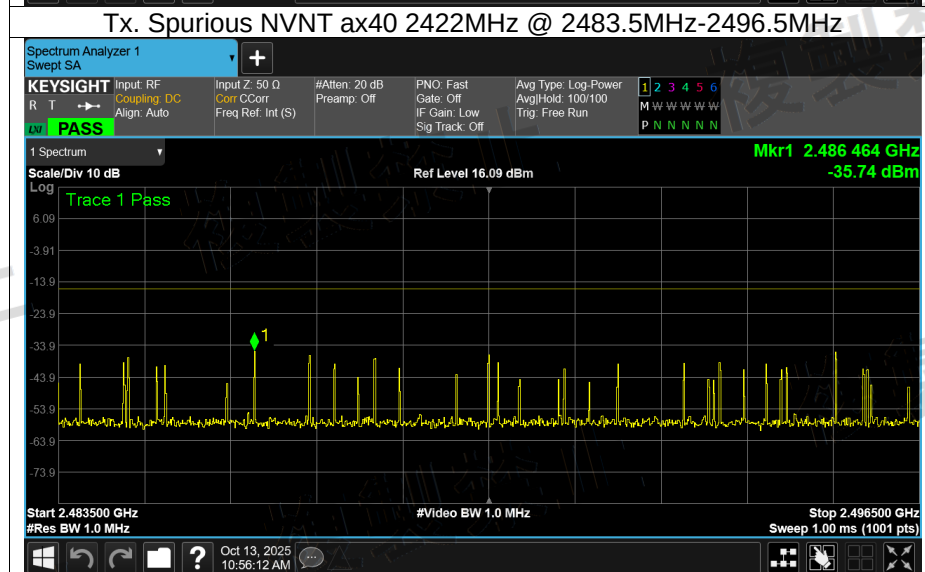
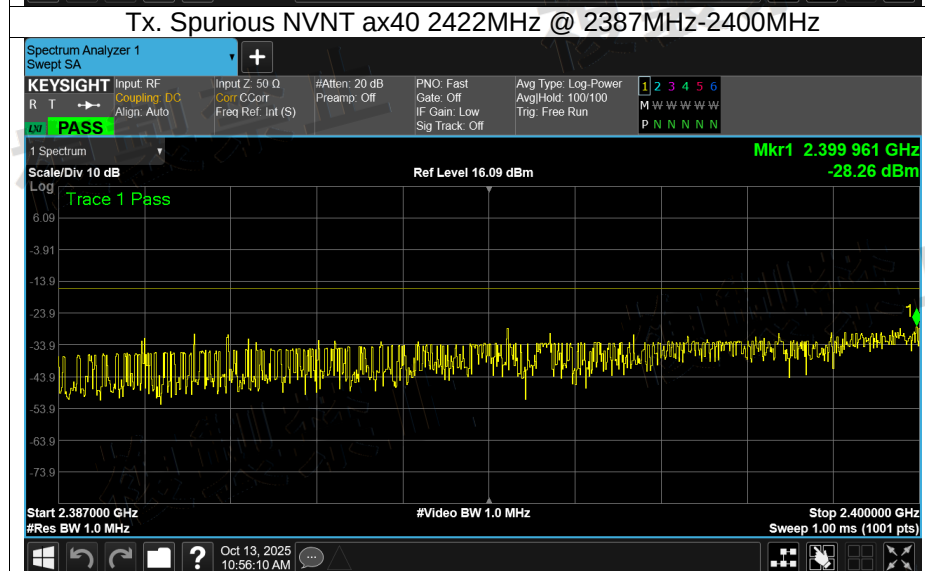
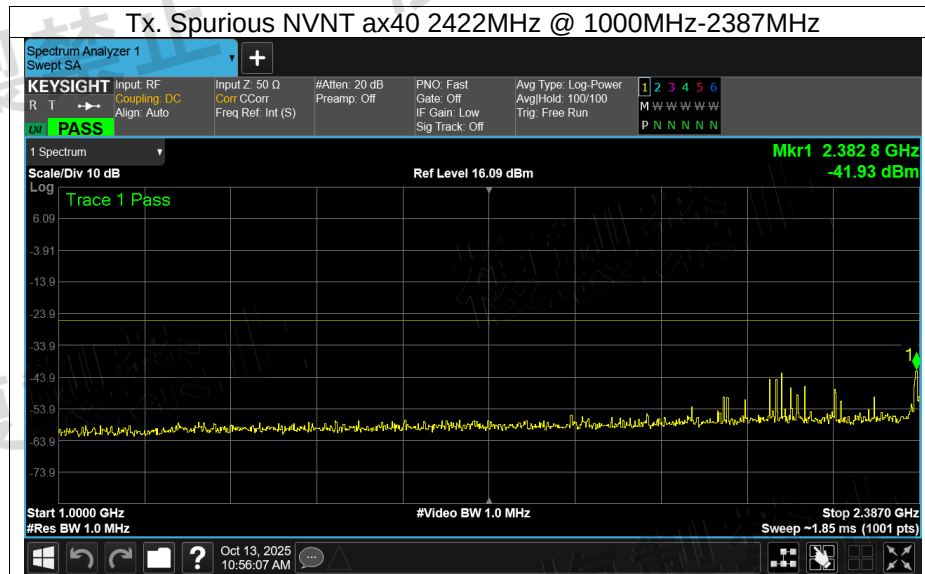


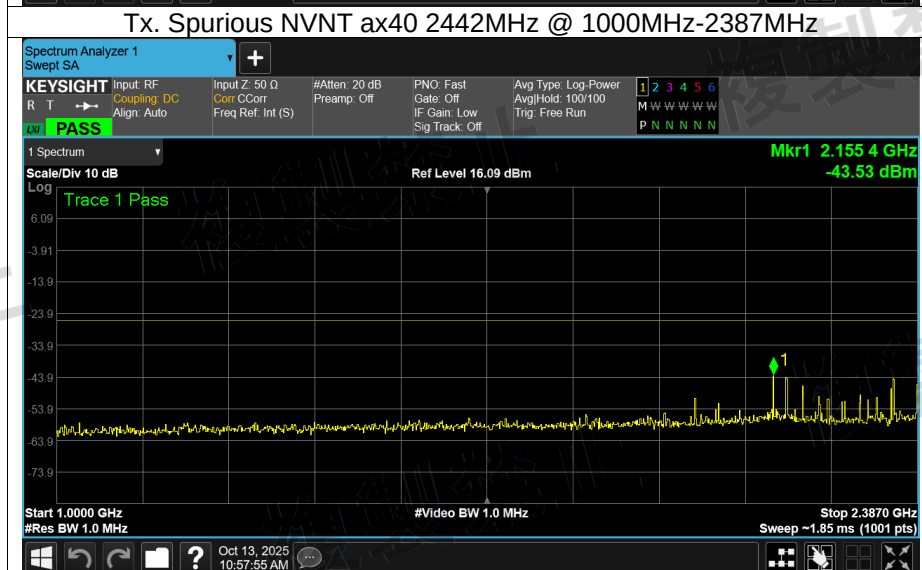
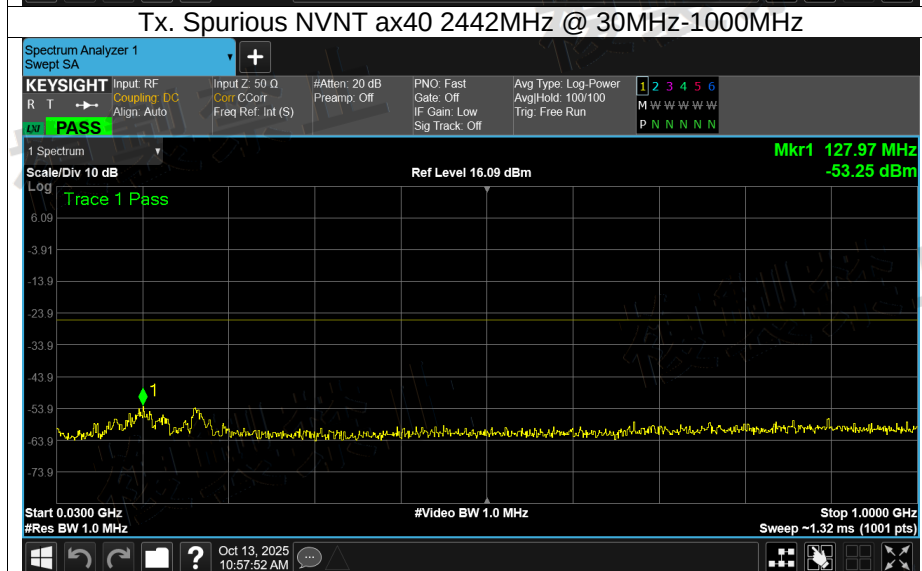
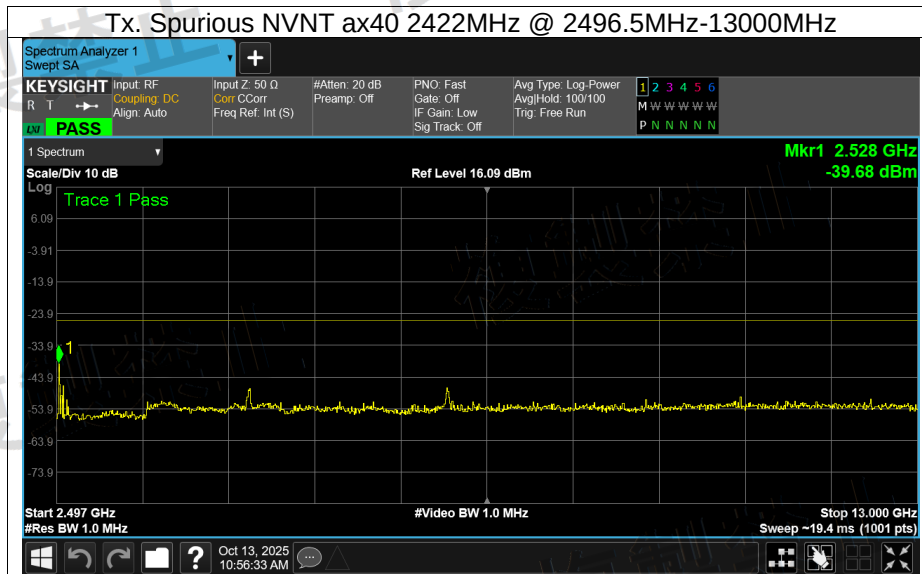


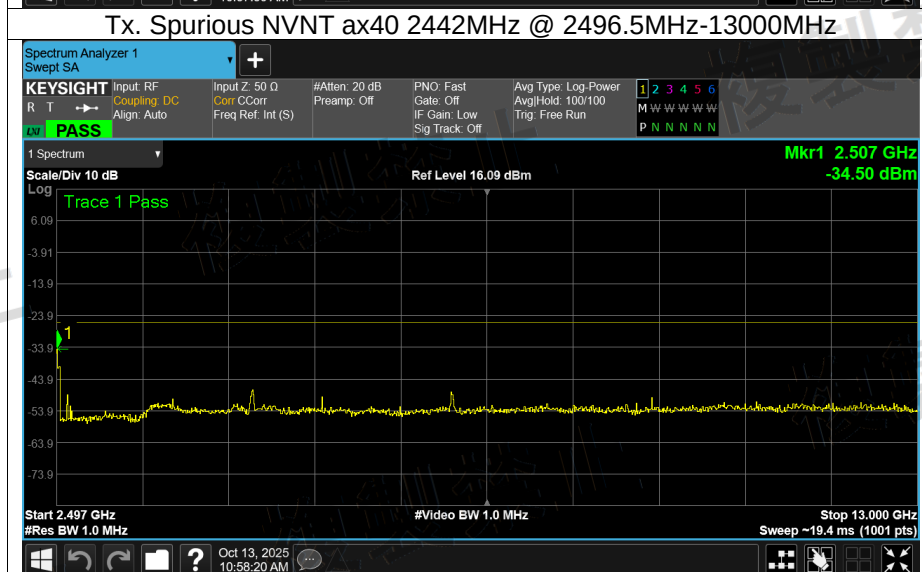
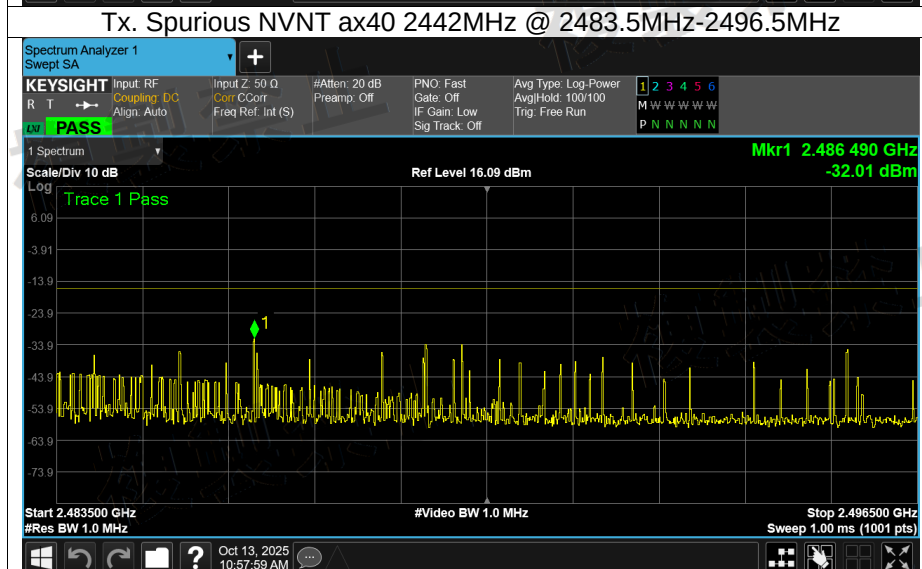
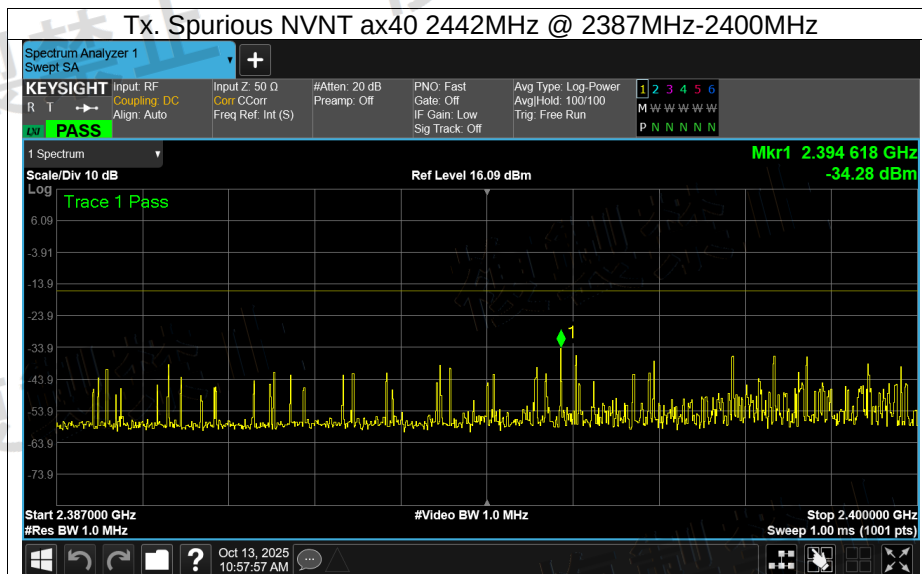


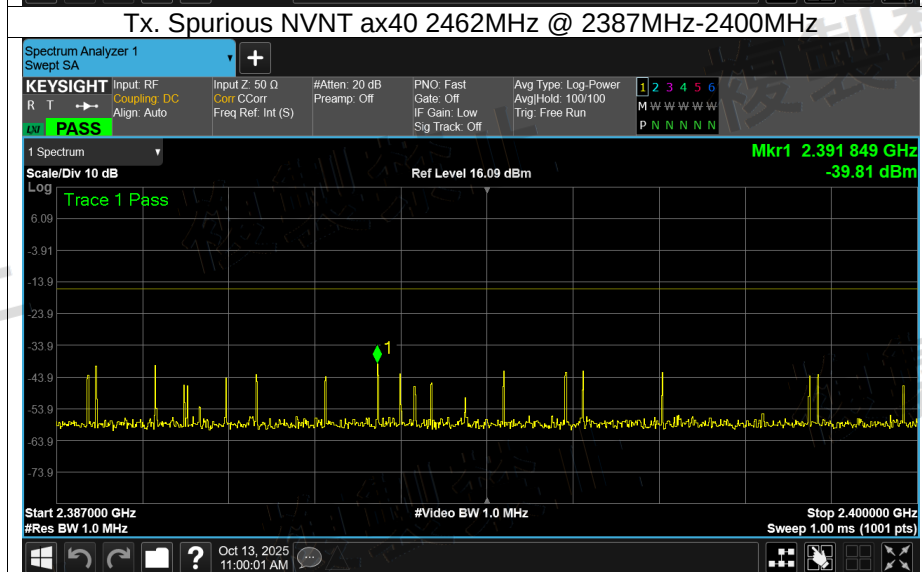
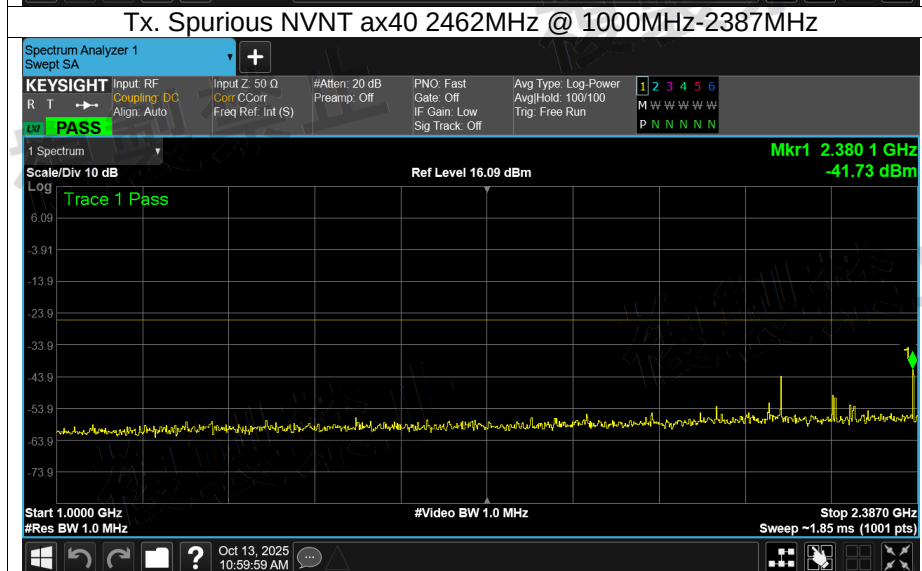
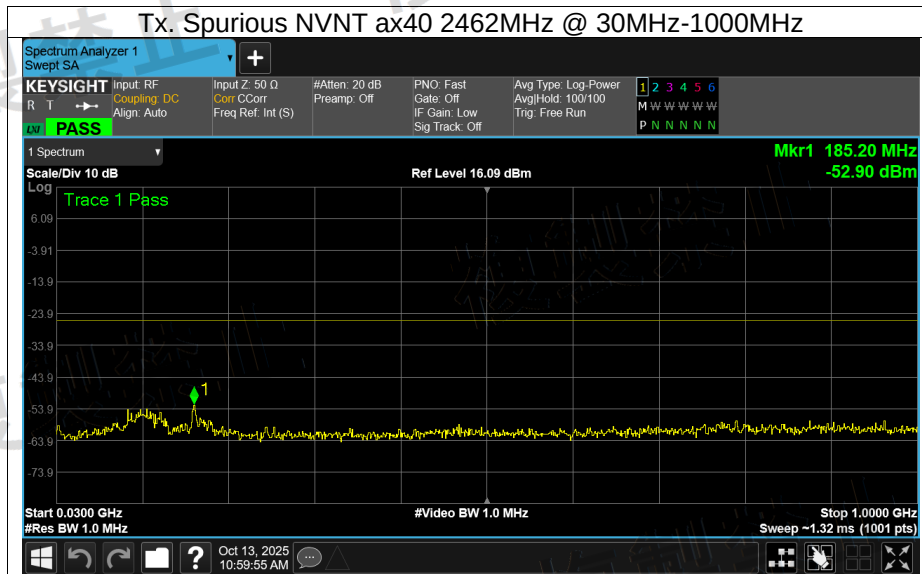


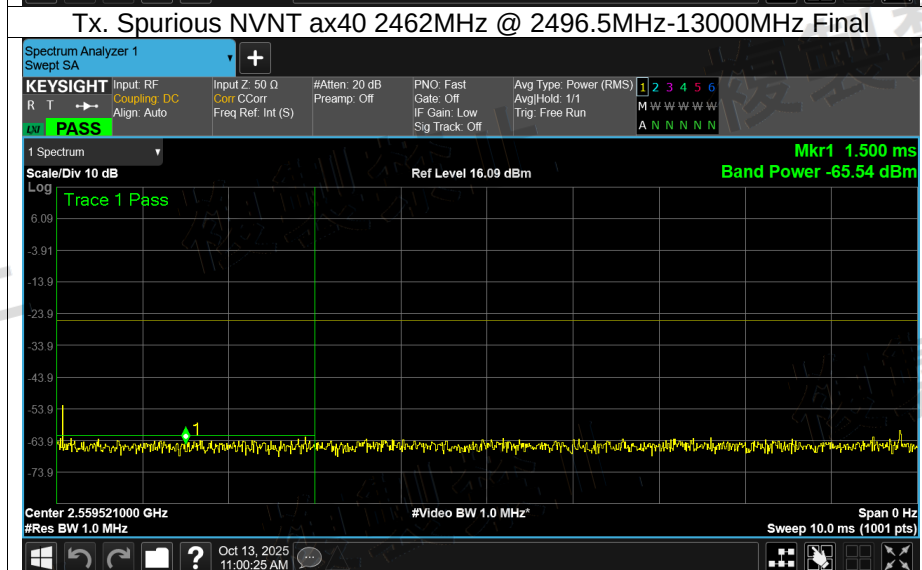
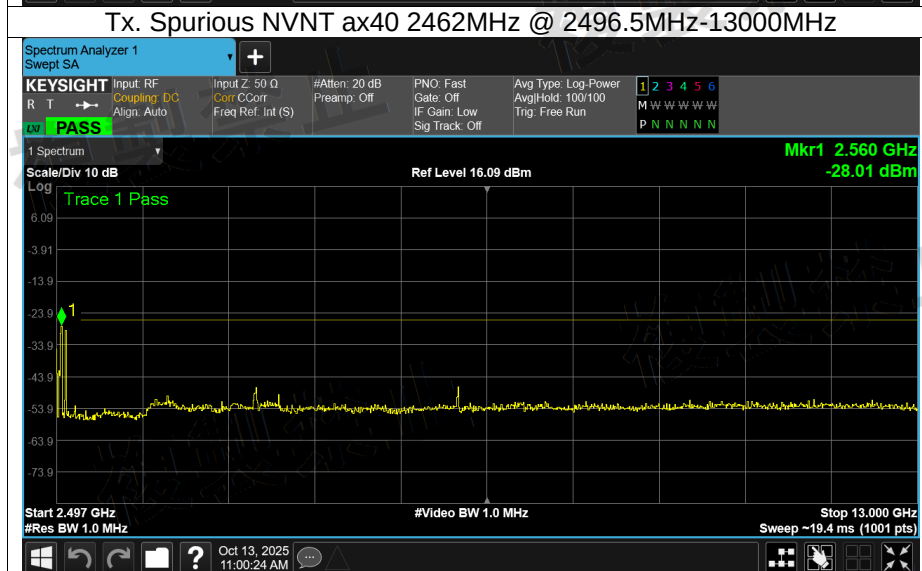
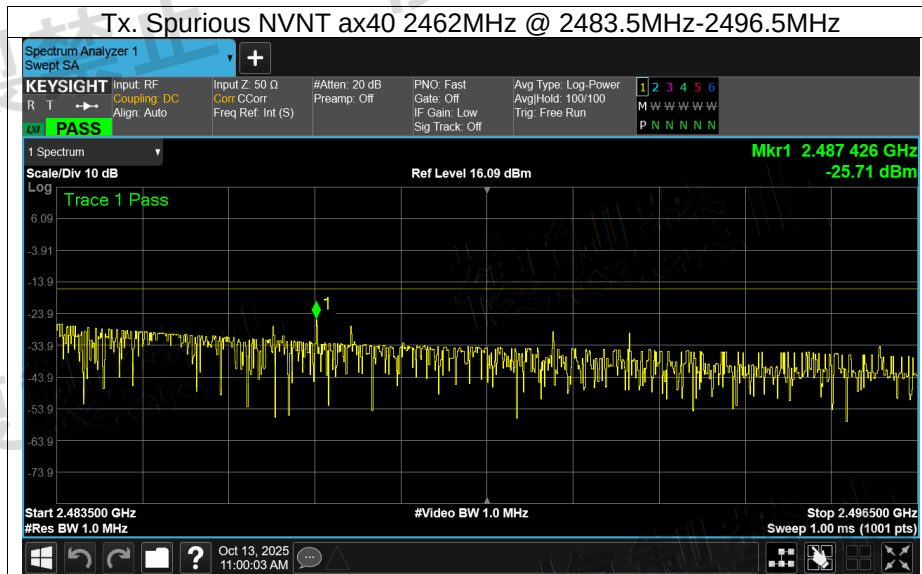








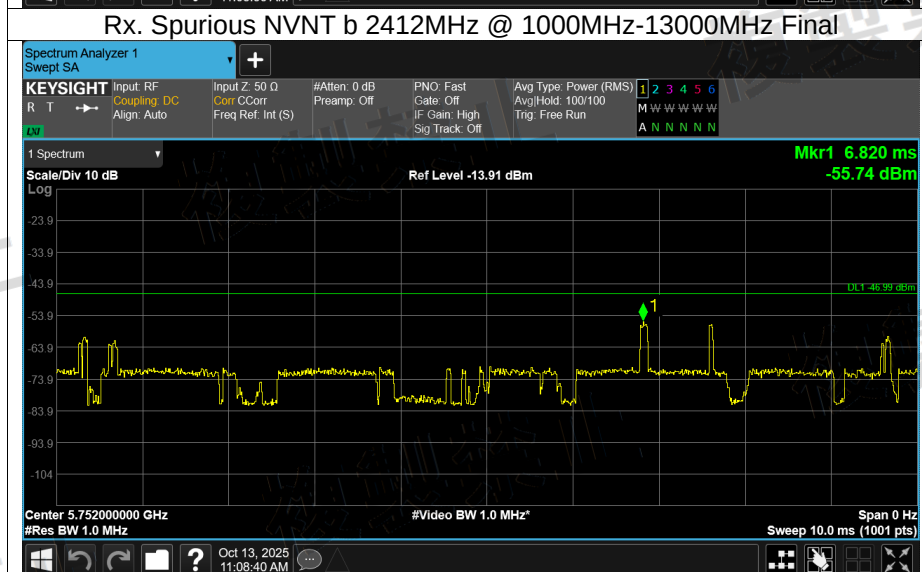
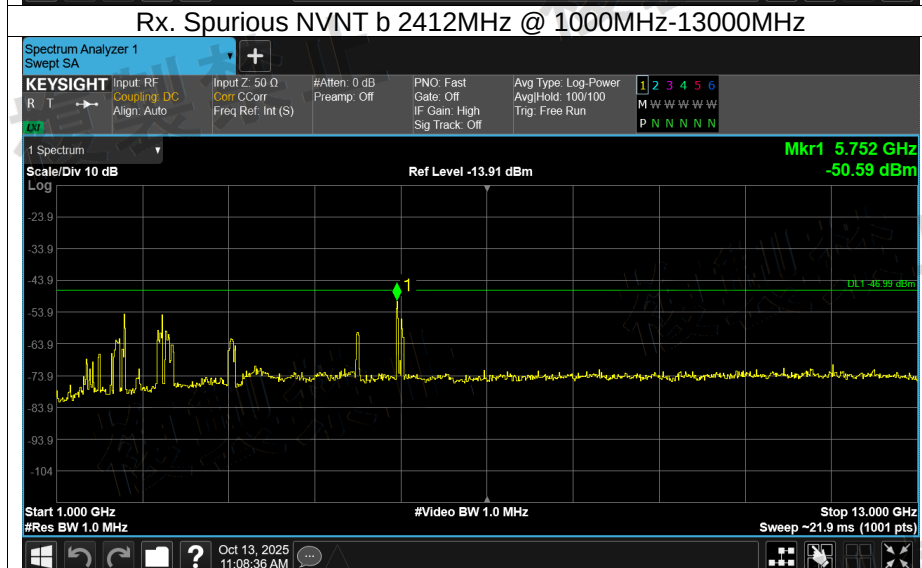
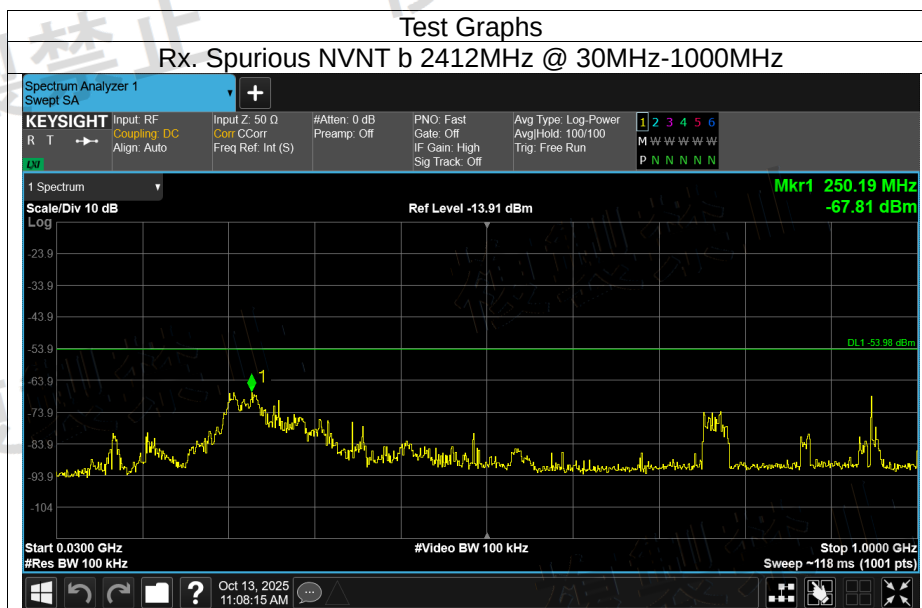


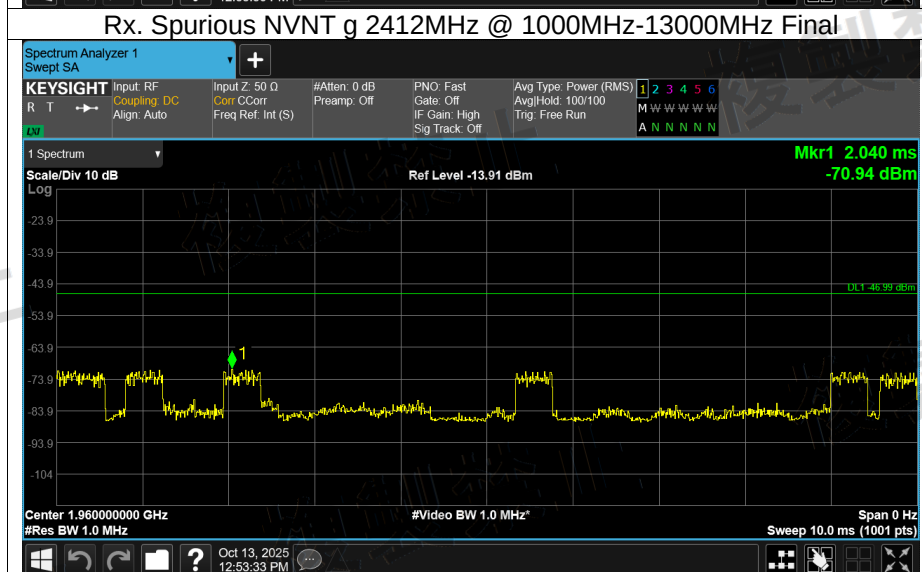
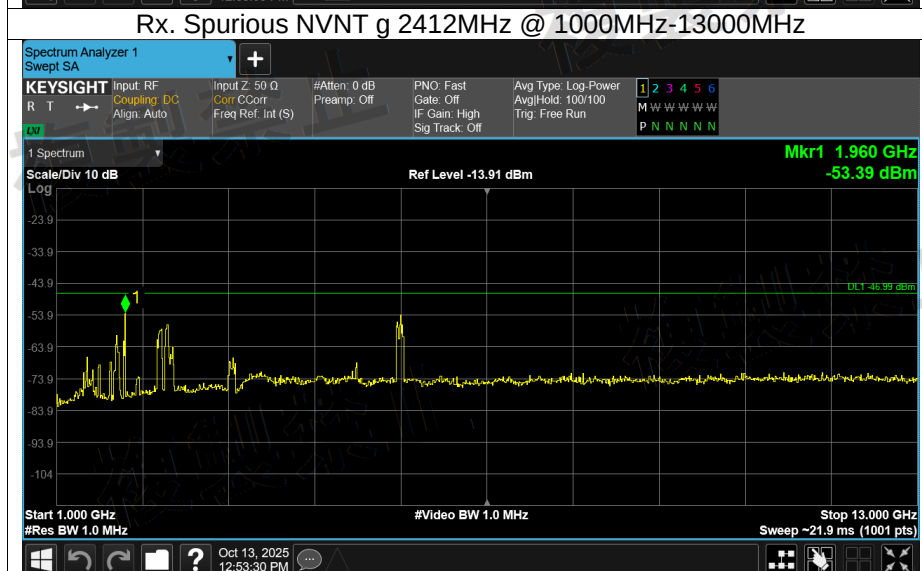
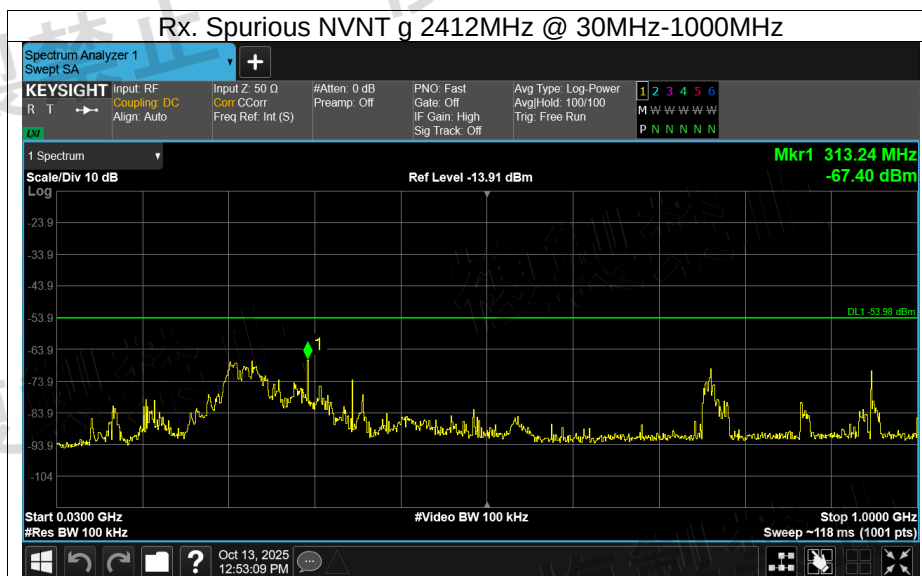


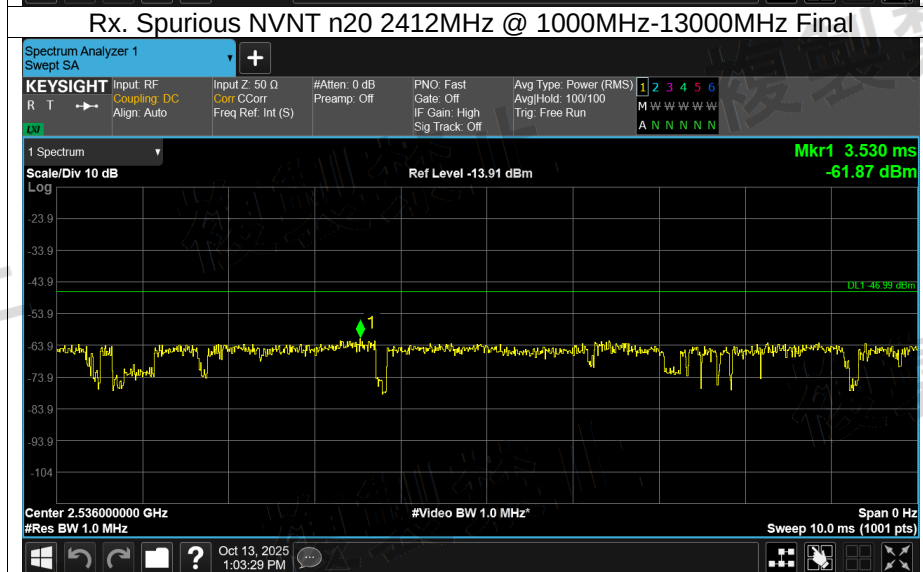
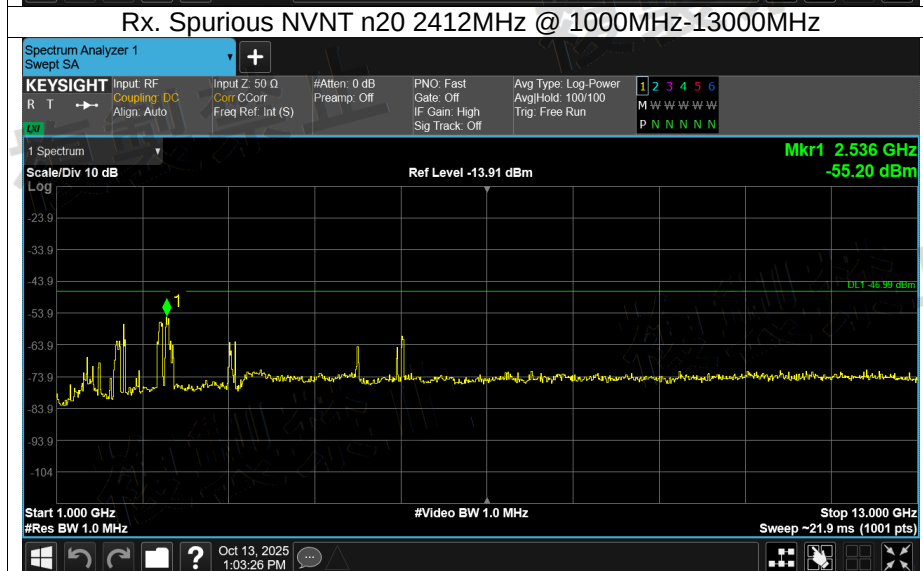
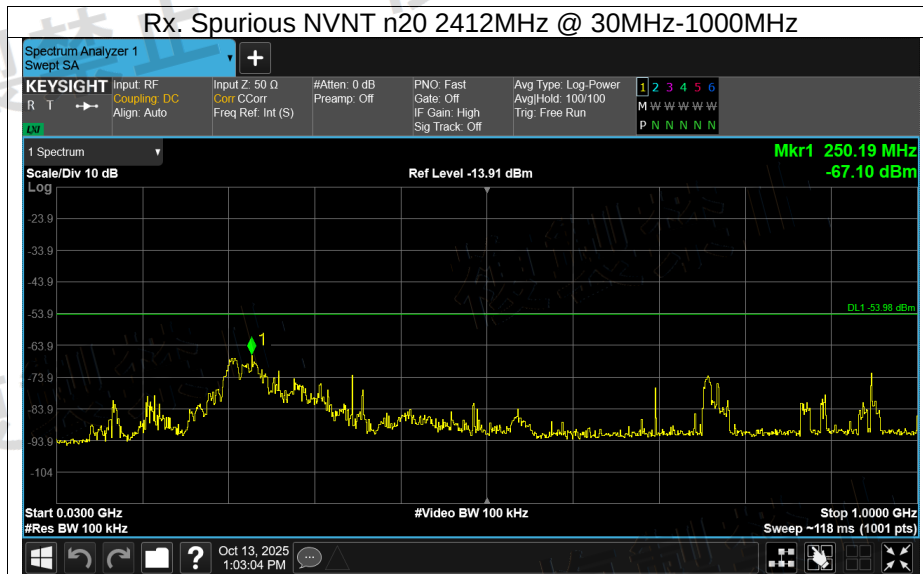


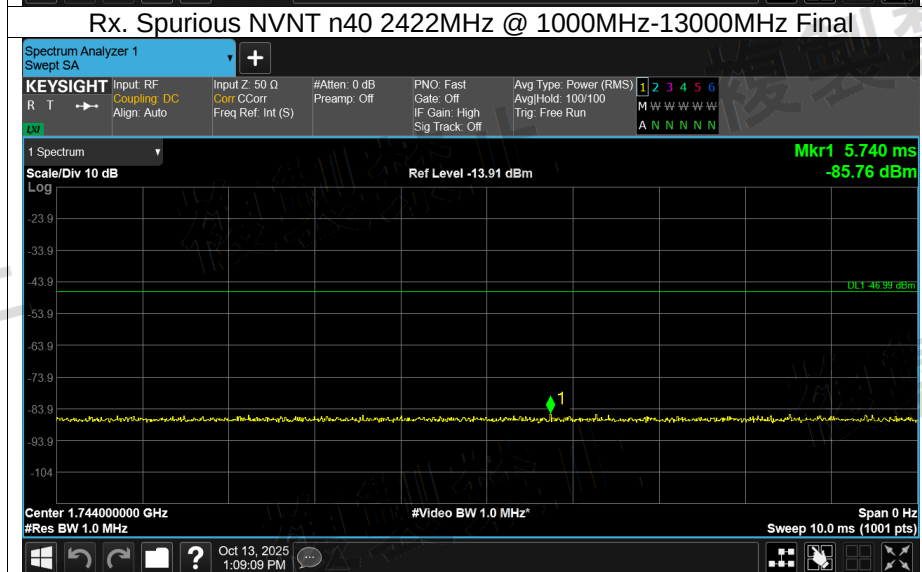
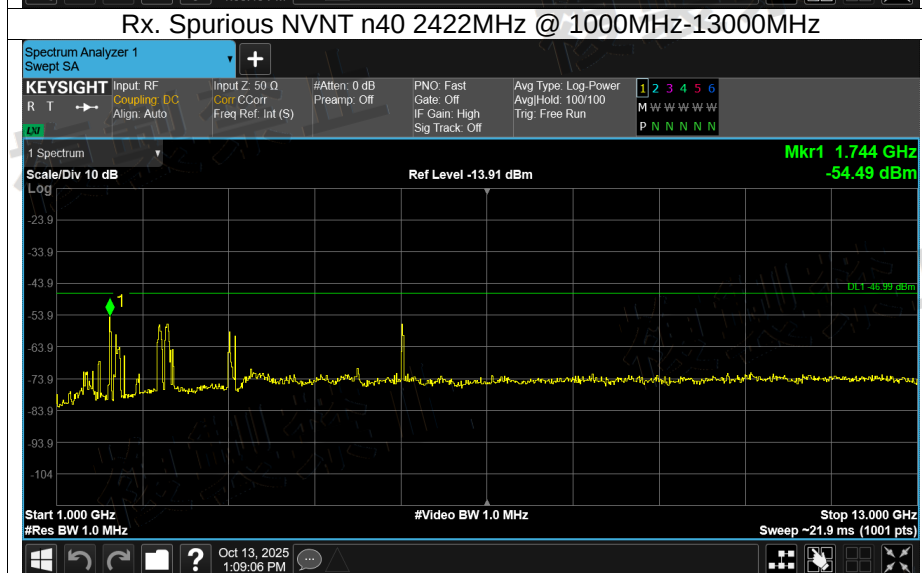
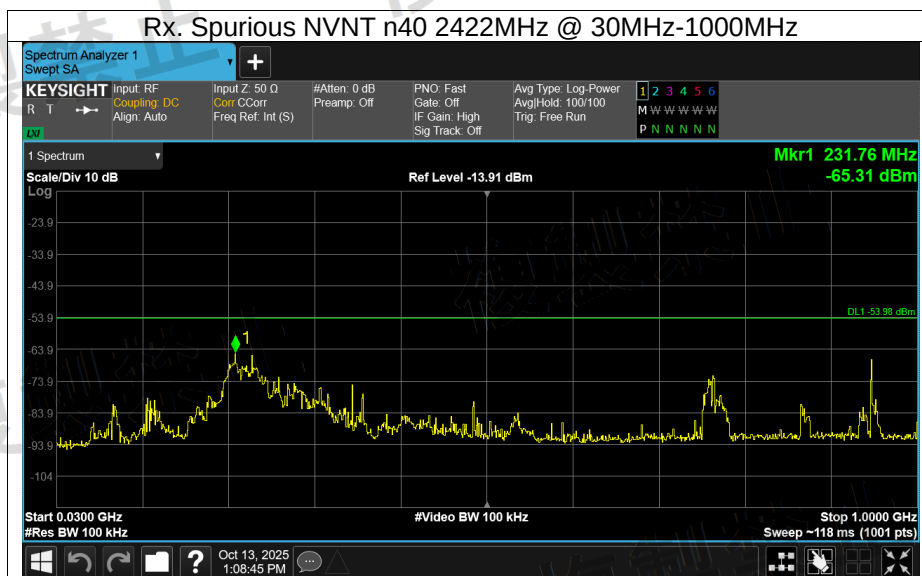
RX SPURIOUS EMISSION

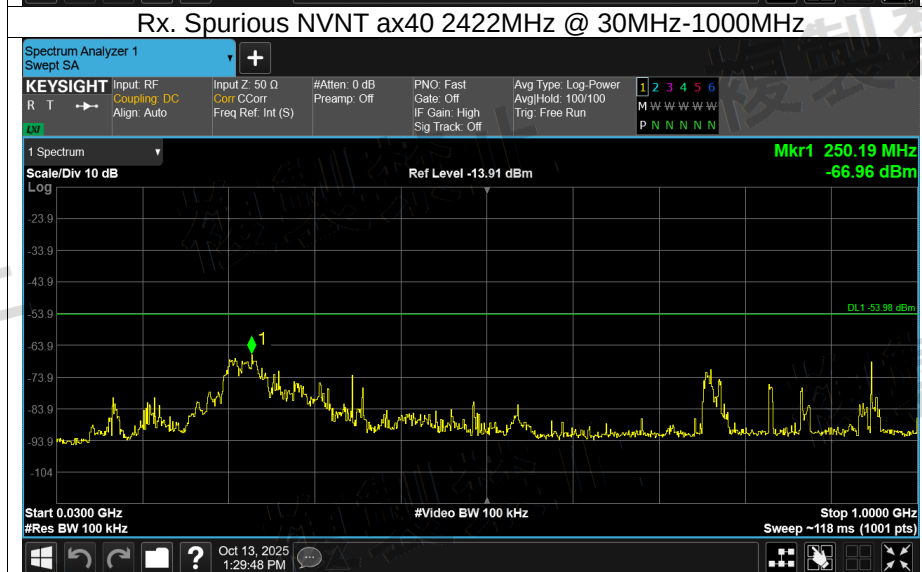
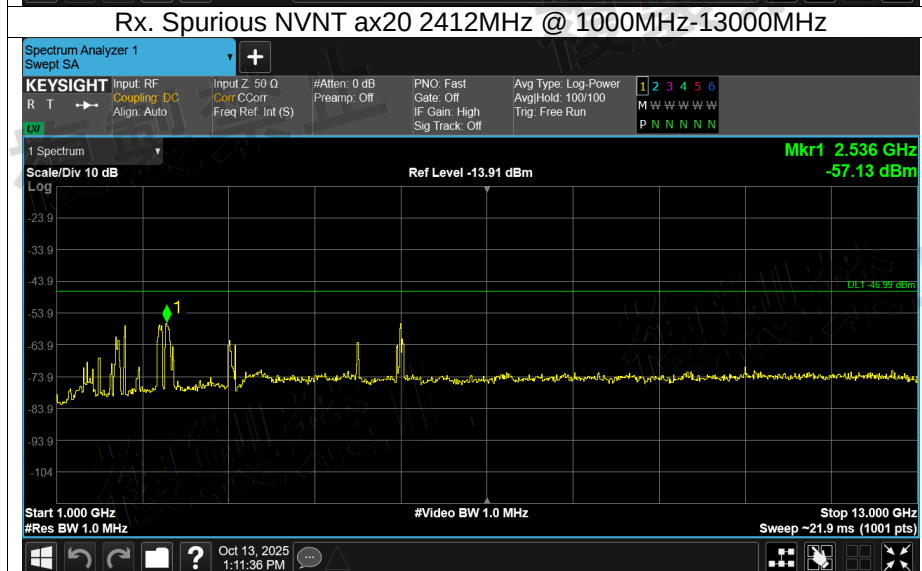
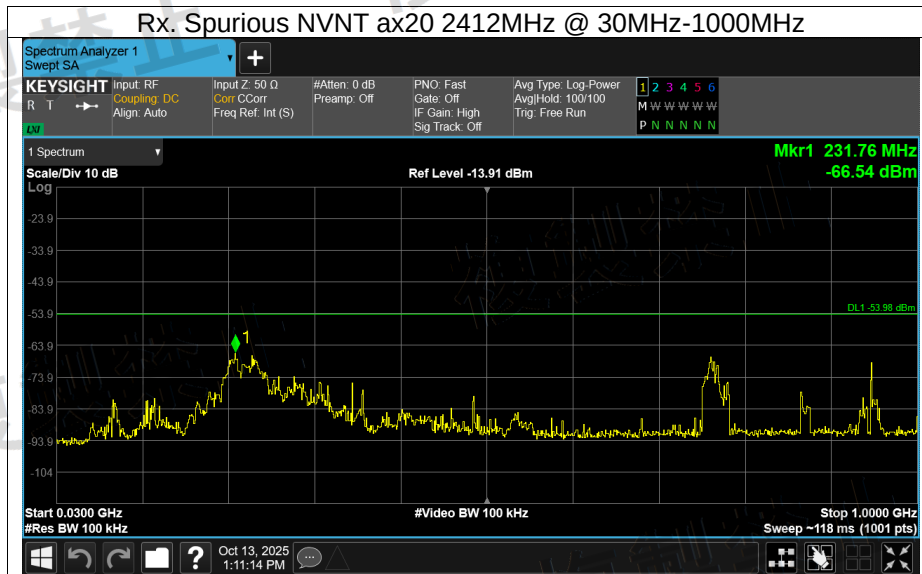
Condition	Mode	Frequency (MHz)	Range (MHz)	Emission Frequency (MHz)	Max Peak Value (dBm)	Max RMS Value (dBm)	Max Peak Value (nW)	Max RMS Value (nW)	Limit (nW)	Verdict
NVNT	b	2412	30-1000	250.19	-67.81	NA	0.1656	NA	4	Pass
NVNT	b	2412	1000-13000	5752.00	-50.59	-55.74	8.7297	2.6669	20	Pass
NVNT	g	2412	30-1000	313.24	-67.40	NA	0.182	NA	4	Pass
NVNT	g	2412	1000-13000	1960.00	-53.39	-70.94	4.5814	0.0805	20	Pass
NVNT	n20	2412	30-1000	250.19	-67.10	NA	0.195	NA	4	Pass
NVNT	n20	2412	1000-13000	2536.00	-55.20	-61.87	3.02	0.6501	20	Pass
NVNT	n40	2422	30-1000	231.76	-65.31	NA	0.2944	NA	4	Pass
NVNT	n40	2422	1000-13000	1744.00	-54.49	-85.76	3.5563	0.0027	20	Pass
NVNT	ax20	2412	30-1000	231.76	-66.54	NA	0.2218	NA	4	Pass
NVNT	ax20	2412	1000-13000	2536.00	-57.13	NA	1.9364	NA	20	Pass
NVNT	ax40	2422	30-1000	250.19	-66.96	NA	0.2014	NA	4	Pass
NVNT	ax40	2422	1000-13000	5752.00	-50.29	-53.09	9.3541	4.9091	20	Pass

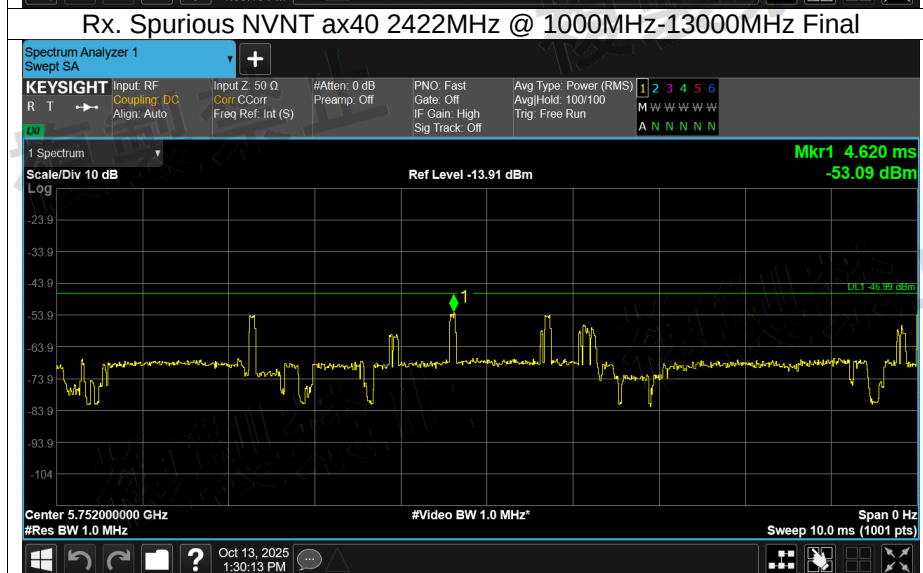
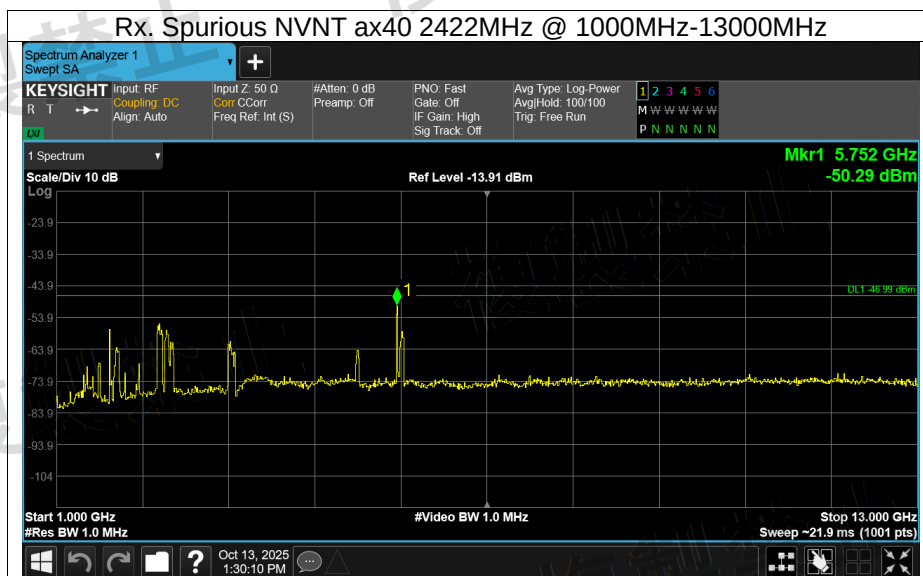








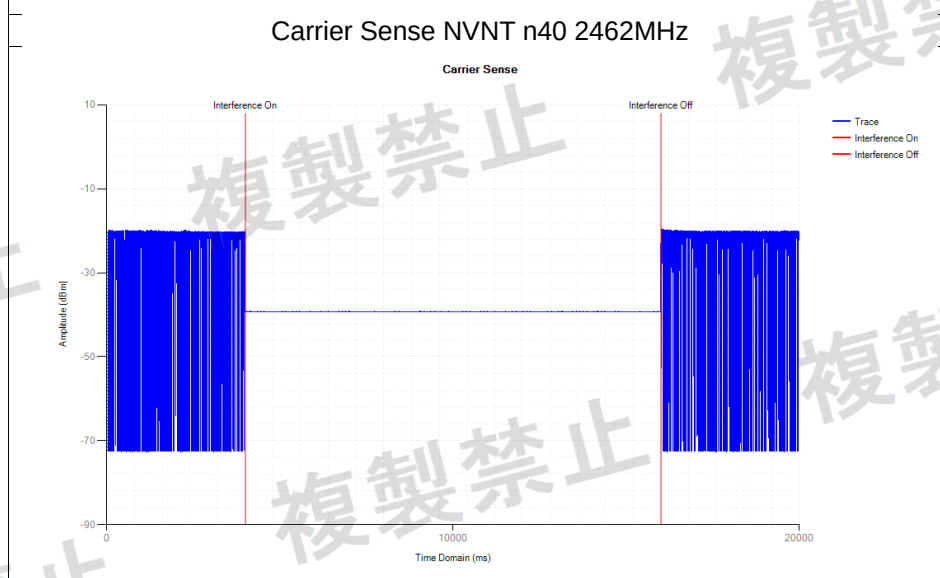
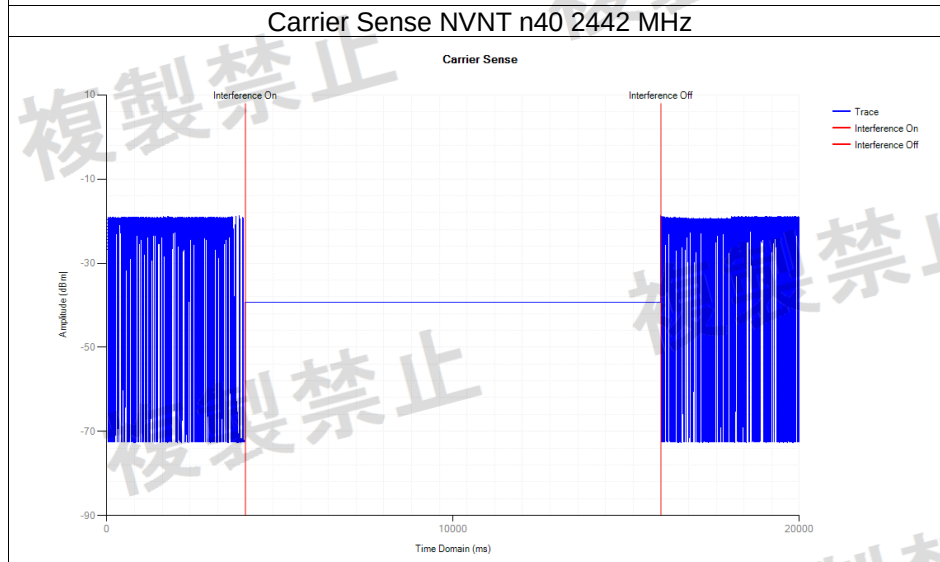
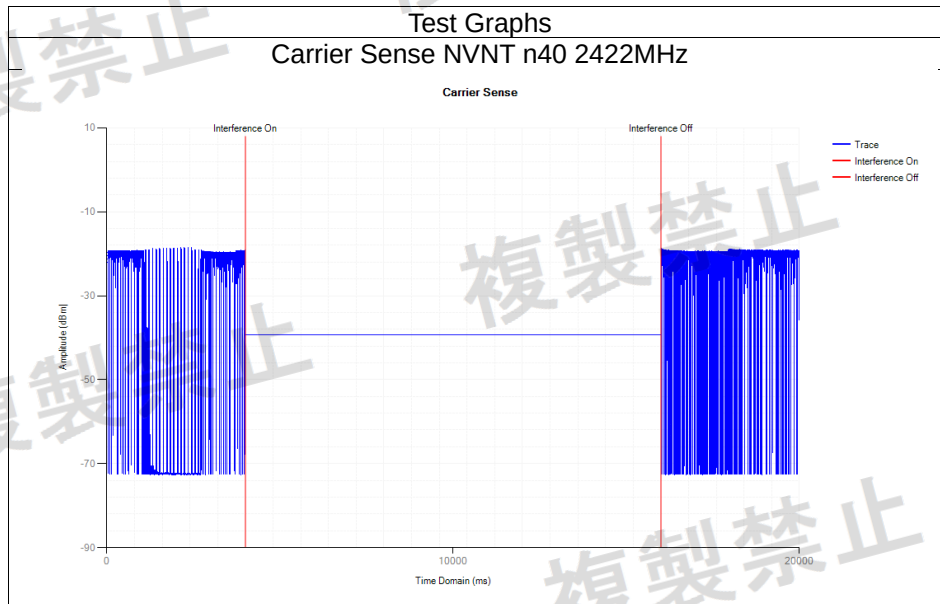


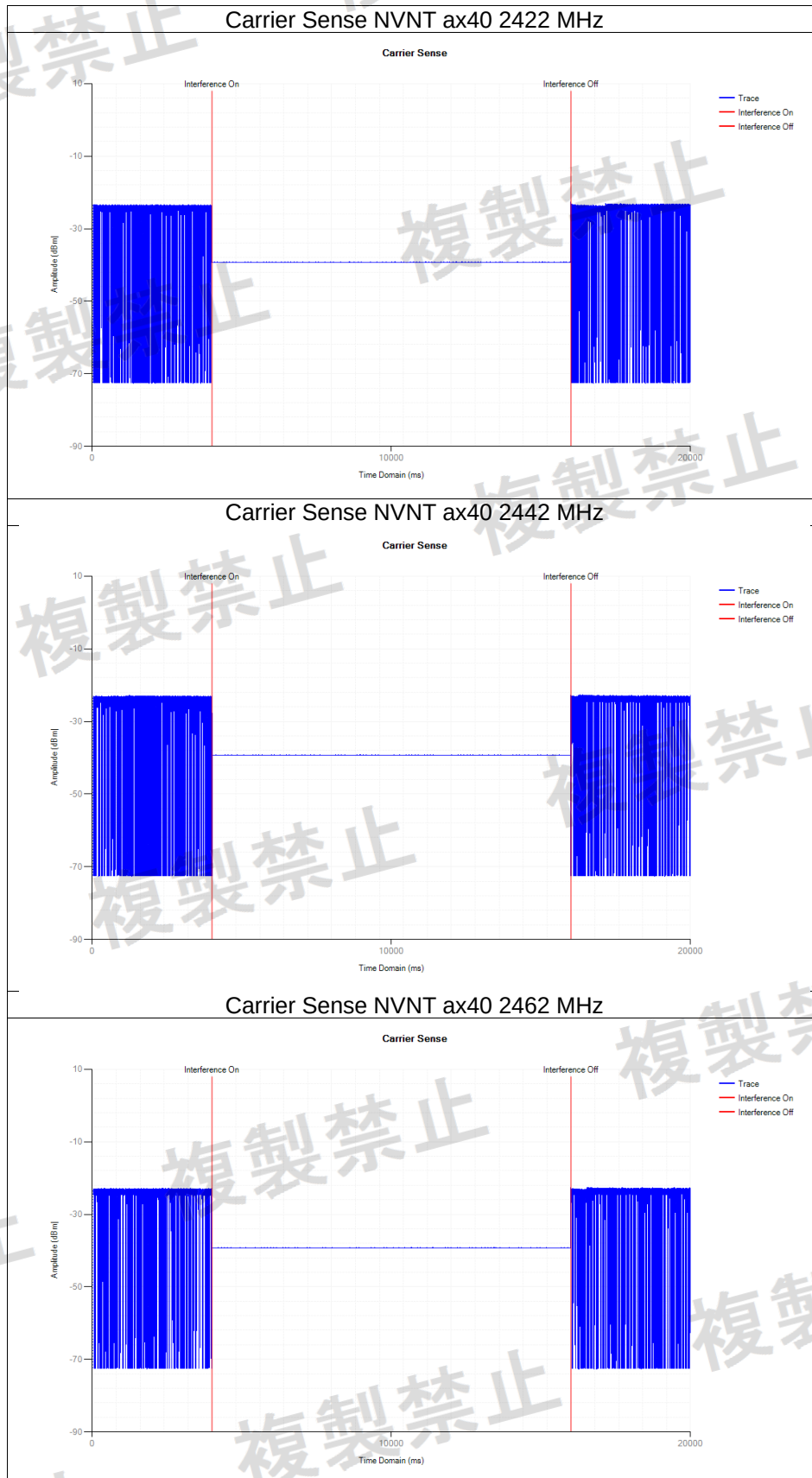




CARRIER SENSE

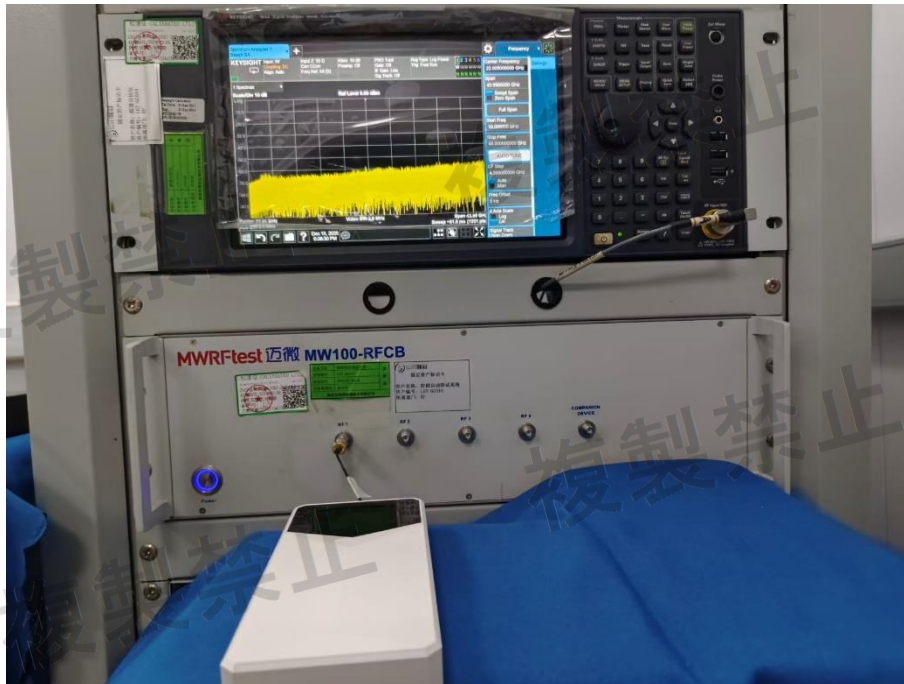
Condition	Mode	Frequency (MHz)	Verdict
NVNT	n40	2422	Pass
NVNT	n40	2442	Pass
NVNT	n40	2462	Pass
NVNT	ax40	2422	Pass
NVNT	ax40	2442	Pass
NVNT	ax40	2462	Pass







APPENDIX II - TEST SETUP PHOTOS





APPENDIX III - PHOTOGRAPHS OF EUT CONSTRUCTIONAL DETAILS

Note: Please see the attached WB_EUT Photos.

※※※※※END OF THE REPORT※※※※※