RADIO TEST REPORT

Article 2 paragraph 1 item (19)

MIC Notice No.88 Appendix No.43

Product : Smart Digital Signage

Trade Mark : N/A

Model Name : YSD-OD5508ZX

Family Model: YSD-OD1008ZX, YSD-OD2158ZX, YSD-OD2708ZX, YSD-OD3208ZX, YSD-OD4308ZX, YSD-OD4608ZX, YSD-OD4908ZX, YSD-OD6508ZX, YSD-OD7508ZX, YSD-OD8608ZX

Report No. : N26050711409E

Prepared for

Yamato Signage Inc.

2F, 1-18-2, Ginza, Chuo-Ku, Tokyo Zip Code:104-0061

Prepared by

Shenzhen NTEK Testing Technology Co., Ltd.

No. 24 Xinfa East Road, Xiangshan Community, Xinqiao Street, Baoan District, Shenzhen, Guangdong, People's Republic of China

Tel. 0755-23200050 Website:http://www.ntek.org.cn

複製禁止

TEST RESULT CERTIFICATION

Applicant's name..... Yamato Signage Inc.

Address..... 2F, 1-18-2, Ginza, Chuo-Ku, Tokyo Zip Code:104-0061

Manufacturer's Name..... GUANGZHOU ZEMSO ELECTRON CO., LTD

Address..... 4F | Building C1 | Guanhua Emergency Industrial Park | Nanjian Road | Zengcheng District | Guangzhou | Guangdong | China

Test specification:

Standard ..... Article 2 paragraph 1 item (19)
MIC Notice No.88 Appendix No.43

Test item description

Product name ..... Smart Digital Signage

Trade Mark..... N/A

Model and/or type reference YSD-OD5508ZX, YSD-OD1008ZX, YSD-OD2158ZX, YSD-OD2708ZX, YSD-OD3208ZX, YSD-OD4308ZX, YSD-OD4608ZX, YSD-OD4908ZX, YSD-OD6508ZX, YSD-OD7508ZX, YSD-OD8608ZX

This device described above has been tested by NTEK, and the test results show that the equipment under test (EUT) is in compliance with MIC requirements. And it is applicable only to the tested sample identified in the report.

This report shall not be reproduced except in full, without the written approval of NTEK, this document may be altered or revised by NTEK Testing Technology Co., Ltd, personnel only, and shall be noted in the revision of the document

Test Sample Number..... S2603090210-1#

Date (s) of performance of tests..... Feb. 02, 2026 ~ Apr. 14, 2026

Date of Issue..... May. 13, 2026

Test Result..... **Pass**

Note: All test data of this report are based on the original test report N26020203805E, dated by Apr. 14, 2026

Prepared By:	Reviewed By:	Approved By:
Allen Liu	Aaron Cheng	Alex Li
Allen Liu	Aaron Cheng	Alex Li
(Project Engineer)	(Supervisor)	(Manager)

複製禁止

※ ※ Revision History ※ ※

REV.	REPORT NO.	Page Revised	ISSUED DATE	Contents
Original	N26020203805E	Rev.01	Apr. 14, 2026	N/A
--	N26050711409E	Rev.02	May. 13, 2026	Update the applicant and model.

複製禁止

Table of Contents Page

1 . SUMMARY OF TEST RESULTS 7
1.1 TEST FACILITY 8
1.2 MEASUREMENT UNCERTAINTY 8
2 . GENERAL INFORMATION 9
2.1 GENERAL DESCRIPTION OF EUT 9
2.2 DESCRIPTION OF TEST MODES 11
2.3 TEST CONDITIONS 12
2.4 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED 12
2.5 DESCRIPTION OF SUPPORT UNITS(CONDUCTED MODE) 13
2.6 EQUIPMENTS LIST FOR ALL TEST ITEMS 14
3 . TEST RESULT FOR WIFI 15
3.1 FREQUENCY ERROR 15
3.2 LIMIT 15
3.3 MEASURING INSTRUMENTS AND SETTING 15
3.4 TEST PROCEDURES 15
3.5 TEST SETUP LAYOUT 15
4 . ANTENNA POWER 17
4.1 LIMIT 17
4.2 TEST SETUP LAYOUT 17
4.3 TEST DEVIATION 17
4.4 TEST RESULT 18
5 . OCCUPIED BANDWITH 19
5.1 LIMIT 19
5.2 TEST RESULT 20
6 . UNWANTED EMISSION INTENSITY MEASUREMENT 21
6.1 LIMIT 21
6.2 MEASURING INSTRUMENTS AND SETTING 21
6.3 TEST PROCEDURES 21
6.4 TEST SETUP LAYOUT 22
6.5 TEST DEVIATION 22
6.6 TEST RESULT 22
7 . IMITATION OF COLLATERAL EMISSION OF RECEIVER MEASUREMENT 23

複製禁止

Table of Contents Page

7.1 LIMIT 23
7.2 MEASURING INSTRUMENTS AND SETTING 23
7.3 TEST PROCEDURES 23
7.4 TEST RESULT 24
8 . TRANSMISSION ANTENNA GAIN (EIRP ANTENNA POWER) MEASUREMENT 25
8.1 LIMIT 25
8.2 MEASURING INSTRUMENTS AND SETTING 25
8.3 TEST SETUP LAYOUT 25
8.4 TEST DEVIATION 25
8.5 EUT OPERATION DURING TEST 25
8.6 RESULTS OF TRANSMISSION ANTENNA GAIN 26
9 . TRANSMISSION RADIATION ANGLE WIDTH (3DB BEAMWIDTH) MEASUREMENT 27
9.1 LIMIT 27
9.2 MEASURING INSTRUMENTS AND SETTING 27
9.3 TEST PROCEDURES 27
9.4 TEST SETUP LAYOUT 28
9.5 TEST DEVIATION 28
9.6 EUT OPERATION DURING TEST 28
9.7 TEST RESULT OF TRANSMISSION RADIATION ANGLE WIDTH (3DB BEAMWIDTH) 28
10 . RADIO INTERFERENCE PREVENTION CAPABILITY MEASUREMENT 29
10.1 LIMIT 29
10.2 MEASURING ID CODE SOFTWARE 29
10.3 TEST PROCEDURES 29
10.4 TEST SETUP LAYOUT 29
10.5 TEST DEVIATION 29
10.6 EUT OPERATION DURING TEST 29
10.7 TEST RESULT OF RADIO INTERFERENCE PREVENTION CAPABILIT 29
11 CARRIER SENSE FUNCTION 30
11.1 LIMIT 30
11.2 TEST PROCEDURE 30

複製禁止

Table of Contents | Page

11.3 TEST RESULT 30
12. TEST RESULTS 31
12.1 ANTENNA AND EIRP POWER 31
12.2 EIRP POWER 50
12.3 OCCUPIED CHANNEL BANDWIDTH 50
12.4 TX SPURIOUS EMISSION 60
12.5 RX SPURIOUS EMISSION 107
12.6 FREQUENCY ERROR 126

複製禁止

1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

Standard	Method	Description of Test	Result
Article 2 paragraph 1 item (19)	MIC Notice No.88 Appendix No.43.3	Frequency Error	Complies
	MIC Notice No.88 Appendix No.43.4	Occupied Bandwidth (99%) and Spread-spectrum Note(5)	Complies
	MIC Notice No.88 Appendix No.43.5	Unwanted Emission Intensity	Complies
	MIC Notice No.88 Appendix No.43.6	Antenna Power Error	Complies
	MIC Notice No.88 Appendix No.43.7	Limitation of Collateral Emission of Receiver	Complies
	MIC Notice No.88 Appendix No.43.8	Transmission Antenna Gain (EIRP Antenna Power)	Complies
	MIC Notice No.88 Appendix No.43.9	Transmission Radiation Angle Width (3dB Beamwidth)	N/A
	MIC Notice No.88 Appendix No.43.10	Radio Interference Prevention Capability	Complies
	MIC Notice No.88 Appendix No.43.10	Spreading Factor	N/A
	MIC Notice No.88 Appendix No.43.8	Carrier Sense Capability Note(3)	N/A
		Carrier Sense Capability Note (4)	Complies
	Note 2	Construction Protection Confirmation	Please refer to Japan Radio Protection Declaration

NOTE:

(1)" N/A" denotes test is not applicable in this Test Report

(2) MIC Ordinance Regulating Radio Equipment Section 1.A of Article 49.20.1

(3) Not apply to this device, since EIRP does not require compensation through Antenna Power.

(4) Apply for 802.11n40 which the Occupied bandwidth within26MHz-40MHz

(5) Only reported

複製禁止

1.1 TEST FACILITY

Site Description

CNAS-Lab.	:	The Certificate Registration Number is L5516.
IC-Registration		The Certificate Registration Number is 9270A.
		CAB identifier:CN0074
FCC- Accredited		Test Firm Registration Number: 463705.
		Designation Number: CN1184
A2LA-Lab.		The Certificate Registration Number is 4298.01
Name of Firm	:	Shenzhen NTEK Testing Technology Co., Ltd.
Site Location	:	No. 24 Xinfa East Road, Xiangshan Community, Xinqiao Street, Baoan District, Shenzhen, Guangdong, People's Republic of China

1.2 MEASUREMENT UNCERTAINTY

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

No.	Item	Uncertainty
1	Conducted Emission Test	±3.2dB
2	Radiated Emission Test	±4.7dB
3	RF power,conducted	±0.16dB
4	Spurious emissions,conducted	±0.21dB
5	All emissions,radiated(<1G)	±4.68dB
6	All emissions,radiated(>1G)	±5.0dB
7	Radio Frequency	$\pm 1\times 10^{-6}$

複製禁止

2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	Smart Digital Signage
Trade Mark	N/A
Model Name	YSD-OD5508ZX
Family Model	YSD-OD1008ZX, YSD-OD2158ZX, YSD-OD2708ZX, YSD-OD3208ZX, YSD-OD4308ZX, YSD-OD4608ZX, YSD-OD4908ZX, YSD-OD6508ZX, YSD-OD7508ZX, YSD-OD8608ZX
Model Difference	All models are the same circuit and RF module, except for the models name.
Product Description	The EUT is Smart Digital Signage Operation Frequency: 802.11b/g/n(20MHz)/ax(20MHz):2412~2472 MHz 802.11n(40MHz)/ax(40MHz):2422~2462 MHz Modulation Type: DSSS with DBPSK/DQPSK/CCK for 802.11b; OFDM with BPSK/QPSK/16QAM/64QAM/256QAM for 802.11g/n; OFDMA with QPSK/BPSK/16QAM/64QAM/256QAM/1024QAM for 802.11ax Antenna Designation: PCB Antenna Antenna Gain 3.43 dBi
Channel List	Please refer to the Note 2.
Adapter	N/A
Battery	N/A
Rating(s)	AC 100V 50Hz
Hardware Version	N/A
Firmware version:	N/A
Software Version	N/A

複製禁止

Note:

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

2.

Channel	Frequency (GHz)	Channel	Frequency (GHz)
01	2.412	11	2.462
02	2.417	12	2.467
03	2.422	13	2.472
04	2.427	--	--
05	2.432	--	--
06	2.437	--	--
07	2.442	--	--
08	2.447	--	--
09	2.452	--	--
10	2.457	--	--

複製禁止

2.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Pretest Mode	Description
Mode 1	(802.11b) (CH01 CH07 CH13)
Mode 2	(802.11g) (CH01 CH07 CH13)
Mode 3	(802.11n/ax 20MHz) (CH01 CH07 CH13)
Mode 4	(802.11n/ax 40MHz) (CH03 CH07 CH11)

Final Test Mode	Description
Mode 1	(802.11b) (CH01 CH07 CH13)
Mode 2	(802.11g) (CH01 CH07 CH13)
Mode 3	(802.11n/ax 20MHz) (CH01 CH07 CH13)
Mode 4	(802.11n/ax 40MHz) (CH03 CH07 CH11)

複製禁止

2.3 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.

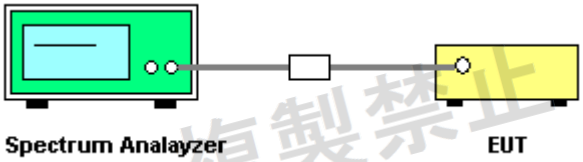
Power Supply Voltage Fluctuation Test

Voltage Fluctuation Test	Normal Voltage	High Voltage +10% of Normal Voltage	Low Voltage -10% of Normal Voltage
AC Power	AC 100V	AC 110V	AC 90V
RF Chip	DC 3.3V	DC 3.3V	DC 3.3V

NOTE:
Voltage Variation (%)
= (Output high or Low Voltage - Output Normal Voltage)/ Output Normal Voltage* 100

During the input supply voltage to the EUT from the external power source is varied by +/- 10%, if 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%. Exempt extremely high and low supply voltage condition test, EUT only operated in normal voltage to test all regulations.

2.4 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED



複製禁止

2.5 DESCRIPTION OF SUPPORT UNITS(CONDUCTED MODE)

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.

Item	Equipment	Model/Type No.	Series No.	Note
E-1	Smart Digital Signage	YSD-OD5508ZX	N/A	EUT

Item	Shielded Type	Ferrite Core	Length	Note

Note:

(1) The support equipment was authorized by Declaration of Confirmation.
(2) For detachable type I/O cable should be specified the length in cm in『Length』column.
(3) “YES” is means “shielded” “with core”; “NO” is means “unshielded” “without core”.

複製禁止

2.6 EQUIPMENTS LIST FOR ALL TEST ITEMS

Test equipment

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	SPECTRUM ANALYZER	AGLIENT	E4440A	MY41000130	2025.04.24	2026.04.23	1 year
2	SPECTRUM ANALYZER	AGILENT	N9020A	MY49100060	2025.04.17	2026.04.16	1 year
3	TEST RECEIVER	R&S	ESPI7	101318	2025.04.17	2026.04.16	1 year
4	50Ω COAXIAL SWITCH	ANRITSU	MP59B	6200983705	2024.04.26	2027.04.25	3 year
5	HORN ANTENNA	EM	EM-AH-10180	2011071402	2024.05.12	2027.05.11	3 year
6	HORN ANT	SCHWARZBECK	BBHA 9170	803	2024.05.12	2027.05.11	3 year
7	PRE-AMPLIFIER	EMC	EMC051835SE	980246	2025.04.17	2026.04.16	1 year
8	POWER METER	DARE	RPR3006W	15I00041SNO84	2025.04.17	2026.04.16	1 year
9	TEMPORARY ANTENNA CONNECTOR (NOTE)	NTS	R001	N/A	N/A	N/A	N/A
10	DC POWER SUPPLY	ZHAOXIN	PS-6005D	20170402923	2024.04.25	2027.04.24	3 year
11	ESG VETCTOR SIGNAL GENERAROR	AGILENT	E4438C	MY45093347	2025.04.17	2026.04.16	1 year
12	PSG ANALOG SIGNAL GENERATOR	AGILENT	E8257D	MY51110112	2025.05.06	2026.05.05	1 year

Note:

Calibration Method:

(a) Calibration conducted by the National Institte of Information and Communicationsa)Technology (NICT) or a designated calibration agency under Article 102-18 paragraph (1)

(b) Correction conducted ours ant to the provisions of Article 135 or Article 144 of the Measurement Act(Act No. 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

(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).

The calibration corresponds to c described above.

All the equipments for Guangzhou Lisai Calibration.

複製禁止

3. TEST RESULT FOR WIFI

3.1 FREQUENCY ERROR

3.2 LIMIT

Item	Limits
Frequency Error	+/-50ppm

3.3 MEASURING INSTRUMENTS AND SETTING

The following table is the setting of Spectrum Analyzer.

Spectrum Parameter	Setting
Attenuation	Auto
RB / VB	10KHz/30KHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

3.4 TEST PROCEDURES

(1)In the case of unmodulated signal (continuous or continuous burst), measure the frequency directly by a frequency meter.

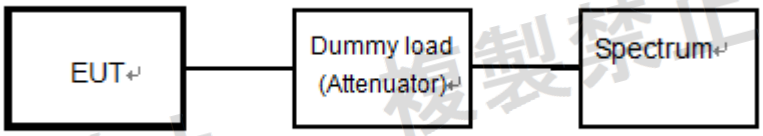
(2)In the case of burst waves, the measurement shall be done for enough time in order to obtain the enough measuring accuracy, and the average of the measured values becomes the final value.

(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.

3.5 TEST SETUP LAYOUT



4.1.5. EUT OPERATION DURING TEST

The EUT was placed on the test table and programmed in un-modulation function.

.

3.5.1 TEST RESULT

EUT：	Smart Digital Signage	Model:	YSD-OD5508ZX
Temperature:	25^{0}C	Tested by:	Allen Liu
Humidity:	55 % RH	Test Voltage	Normal Voltage(AC 100V)
Operation Mode:	modulated-20M		

Test data reference attachment

複製禁止

4. ANTENNA POWER

4.1 LIMIT

Modulation	Frequency band	Antenna power	Max EIRP		Antenna power Tolerance
			Non-directional	Beam directional Note1	
DS	2,400-2,483.5MHz	10mW/MHz	12.14dBm/MHz	22.14dBm/MHz	+20% No lower limit
OFDM1 Note2	2,400-2,483.5MHz	10mW/MHz	12.14dBm/MHz	22.14dBm/MHz	
OFDM2	2,400-2,483.5MHz	5mW/MHz	9.13dBm/MHz	19.13dBm/MHz	
FH,DS-FH, FH-OFDM	2,400-2,483.5MHz	3mW/MHz	6.91dBm/MHz	16.91dBm/MHz	
	2,427-2,470.75MHz	10mW/MHz	12.14dBm/MHz	22.14dBm/MHz	
Other than those above	2,400-2,483.5MHz	10mW	12.14dBm	22.14dBm	

Note 1: The half-value angle of the beam directivity must be less than 360 ÷ A degrees. A shall be the rate at which the EIRP exceeds the upper limit of the omnidirectional EIRP.

Note 2: OFDM 1 in the modulation method column indicates that the occupied frequency band width is 26 MHz or less, and OFDM 2 indicates the occupied frequency bandwidth exceeding 26 MHz and 40 MHz or less.

4.2 TEST SETUP LAYOUT

4.3 TEST DEVIATION

There is no deviation with the original standard.

複製禁止

4.4 TEST RESULT

EUT :	Smart Digital Signage	Model:	YSD-OD5508ZX
Temperature:	25^{0}C	Tested by:	Allen Liu
Humidity:	55 % RH	Test Voltage	Normal Voltage(AC 100V)
Operation Mode:	Normal Voltage-802.11b/g/n/ax(HT20/ HT40) mode		

Test data reference attachment

複製禁止

5. OCCUPIED BANDWITH

5.1 LIMIT

Item	Limits
Occupied Band Width:	FH 83.5MHz; OFDM1,DS ≦26MHz; 26MHz≦ OFDM 40MHz system≦ 40MHz.; Others≦26MHz

6.1.2. MEASURING INSTRUMENTS AND SETTING

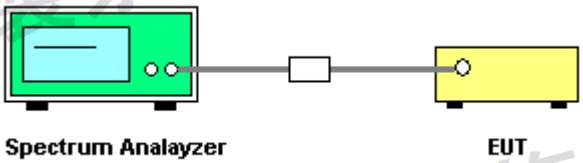
6.1.3. TEST PROCEDURES

Set the spectrum analyzer as follows :

Center frequency:	Test frequency
Frequency sweep width:	About 2~3.5 times of the Nominal bandwidth
Resolution bandwidth:	3% or less of the Nominal bandwidth
Video bandwidth:	Equal to RBW
Sweep time:	Minimum time to ensure the measuring accuracy (In the case of burst wave, one burst shall be included per data point.)
Sweep mode:	Continuous sweep
Detection mode:	Positive peak
Display mode:	Maximum hold

Note: 1. Spread Spectrum Factor = Spread Spectrum Bandwidth / modulation rate of EUT.

6.1.4. TEST SETUP LAYOUT



6.1.5. TEST DEVIATION

There is no deviation with the original standard.

6.1.6. EUT OPERATION DURING TEST

The EUT was programmed to be in continuously transmitting mode.

複製禁止

5.2 TEST RESULT

EUT :	Smart Digital Signage	Model:	YSD-OD5508ZX
Temperature:	25^{0}C	Tested by:	Allen Liu
Humidity:	55 % RH	Test Voltage	Normal Voltage(AC 100V)
Operation Mode:	Normal Voltage-802.11b/g/n/ax(HT20 / HT40) mode		

Test data reference attachment

複製禁止

6. UNWANTED EMISSION INTENSITY MEASUREMENT

6.1 LIMIT

Item	Limits
TX Spurious Emission	≦ 2.5 μW (30MHz≦ f≦ 1000MHz)
	≦ 2.5 μW (1000MHz<f≦ 2387MHz)
	≦ 25 μW (2387MHz<f≦ 2400MHz)
	≦ 25 μW (2483.5MHz≦ f<2496.5MHz)
	≦ 2.5 μW (2496.5MHz≦ f<12500MHz)

6.2 MEASURING INSTRUMENTS AND SETTING

Please refer to section 5 in this report. The following table is the setting of Spectrum Analyzer.

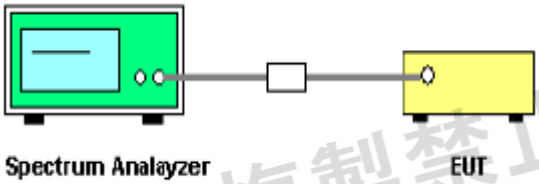
Spectrum Parameter	Setting
Attenuation	Auto
RB / VB	1 MHz
Detector	Average
Trace	Max Hold
Sweep Time	Auto

6.3 TEST PROCEDURES

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: Average
   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 0.25μW.
4. Setting of SA is following as 1000MHz and stop frequency 2387MHz Then to mark peak reading value + cable loss shall be less than 2.5μW.
5. SA adjusted to start frequency 2387MHz and stop frequency 2400MHz. Then to mark peak reading value + cable loss shall be less than 25μW.
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 25μW
7. SA adjusted to start frequency 2496.5MHz and stop frequency 12500MHz Then to mark peak reading value + cable loss shall be less than 2.5μW
8. Measure side band spurious as follows: For 2.4GHz band: 2374MHz~2400MHz and 2483.5MHz~2509.5MHz RBW = VBW = 30kHz, Result_Value = Meaured_ Value + 15.2 [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.

複製禁止

6.4 TEST SETUP LAYOUT



6.5 TEST DEVIATION

There is no deviation with the original standard.

6.6 TEST RESULT

EUT：	Smart Digital Signage	Model:	YSD-OD5508ZX
Temperature:	25^{0}C	Tested by:	Allen Liu
Humidity:	55 % RH	Test Voltage	Normal Voltage(AC 100V)
Operation Mode:	Normal Voltage-802.11b/g/n/ax(HT20/ HT40) mode		

Test data reference attachment

複製禁止

7. IMITATION OF COLLATERAL EMISSION OF RECEIVER MEASUREMENT

7.1 LIMIT

Item	Limits
RX Spurious Emission:	≦ 4nW (f<1GHz)
	≦ 20nW (1GHz≦ f)

7.2 MEASURING INSTRUMENTS AND SETTING

Please refer to section 5 in this report. The following table is the setting of Spectrum Analyzer.

Spectrum Parameter	Setting
Attenuation	Auto
RB	100 kHz (below 1GHz emissions) 1 MHz (above 1GHz emissions)
VB	100 kHz (below 1GHz emissions) 1 MHz (above 1GHz emissions)
Detector	Average
Trace	Max Hold
Sweep Time	Auto

7.3 TEST PROCEDURES

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) /
   AT: 10dB / Ref: 0dBm / Sweep time: Auto / Sweep Mode: Continuous sweep / Detect mode: Average / 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 < 1GHz, 2nW for f >= 1GHz), 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.

複製禁止

7.4 TEST RESULT

EUT：	Smart Digital Signage	Model:	YSD-OD5508ZX
Temperature:	25^{0}C	Tested by:	Allen Liu
Humidity:	55 % RH	Test Voltage	Normal Voltage(AC 100V)
Operation Mode:	Normal Voltage-802.11b/g/n/ax(HT20/ HT40) RX mode		

Test data reference attachment

複製禁止

8. TRANSMISSION ANTENNA GAIN (EIRP ANTENNA POWER) MEASUREMENT

8.1 LIMIT

Modulation	Frequency band	Antenna power	Max EIRP	
			Non-directional	Beam directional[Note1]
DS	2,400-2,483.5MHz	10mW/MHz	12.14dBm/MHz	22.14dBm/MHz
OFDM1[Note2]	2,400-2,483.5MHz	10mW/MHz	12.14dBm/MHz	22.14dBm/MHz
OFDM2	2,400-2,483.5MHz	5mW/MHz	9.13dBm/MHz	19.13dBm/MHz
FH,DS-FH,FH-OFDM	2,400-2,483.5MHz	3mW/MHz	6.91dBm/MHz	16.91dBm/MHz
	2,427-2,470.75MHz	10mW/MHz	12.14dBm/MHz	22.14dBm/MHz
Other than those above	2,400-2,483.5MHz	10mW	12.14dBm	22.14dBm

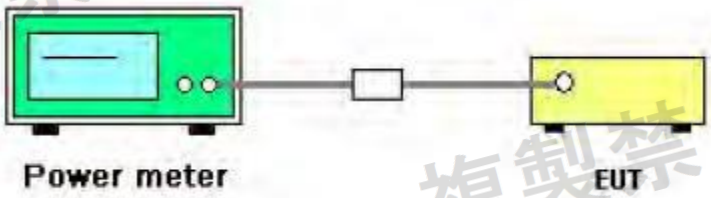
Note 1: The half-value angle of the beam directivity must be less than 360 ÷ A degrees. A shall be the rate at which the EIRP exceeds the upper limit of the omnidirectional EIRP.
Note 2: OFDM 1 in the modulation method column indicates that the occupied frequency band width is 26 MHz or less, and OFDM 2 indicates the occupied frequency bandwidth exceeding 26 MHz and 38 MHz or less.
Note 3: This test item will not be applied to the transmission antenna which has a gain of 2.14dBi or less.

8.2 MEASURING INSTRUMENTS AND SETTING

Please refer to section 5 in this report. The following table is the setting of spectrum analyzer.

Spectrum Parameter	Setting
Attenuation	Auto
RB/VB	1 MHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

8.3TEST SETUP LAYOUT



8.4 TEST DEVIATION

There is no deviation with the original standard.

8.5 EUT OPERATION DURING TEST

The EUT was programmed to be in continuously transmitting mode.

複製禁止

8.6 RESULTS OF TRANSMISSION ANTENNA GAIN

EUT :	Smart Digital Signage	Model:	YSD-OD5508ZX
Temperature:	25^{0}C	Tested by:	Allen Liu
Humidity:	55 % RH	Test Voltage	Normal Voltage(AC 100V)
Operation Mode:	Normal Voltage-802.11b/g/n/ax(HT20/ HT40) mode		

Test data reference attachment

複製禁止

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

9.1 LIMIT

Item	Limits
3dB antenna beam width	360/A (If A<1; then A=1) A = {EIRP Power [mW] / 16.36 for DS, OFDM} or A = {EIRP Power [mW] / 4.9 for FH}
Note: This test item is not applied for radio equipment with equivalent isotropic radiation power lower than 12.14dBm/MHz, but Antenna Power(Conducted) limit is 10 mW/MHz (10 dBm/MHz), So the test item will not be applied to the transmission antenna which has a gain of 2.14dBi or less	

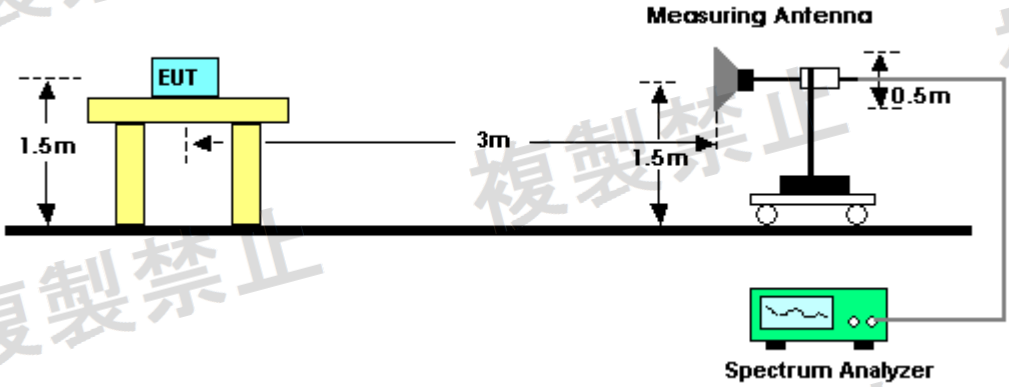
9.2 MEASURING INSTRUMENTS AND SETTING

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	0 MHz
RB	1 MHz
VB	1 MHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

9.3 TEST PROCEDURES

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 receving signal position.
3. Rotate directions of the EUT horizontally and ertically to find the maximum receiving power.
4. Move the measuring antenna height up and down within ± 50cm of EUT height and swing it to find the maximum output of measuing antenna. The output level at the spectrum analyzer is read as “E”
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 (If A<1; then A=1).
   A = {EIRP Power [mW] / 16.36 for DS, OFDM} or
   A = {EIRP Power [mW] / 4.9 for FH}

9.4 TEST SETUP LAYOUT



9.5 TEST DEVIATION

There is no deviation with the original standard.

9.6 EUT OPERATION DURING TEST

The EUT was programmed to be in continuously transmitting mode.

9.7 TEST RESULT OF TRANSMISSION RADIATION ANGLE WIDTH (3DB BEAMWIDTH)

EUT :	Smart Digital Signage	Model:	YSD-OD5508ZX
Temperature:	25^{0}C	Tested by:	N/A
Humidity:	55 % RH	Test Voltage	N/A
Operation Mode:	N/A		

Note:This item is not applicable, when EIRP power is lower than the limit of 12.14dBm/MHz.

複製禁止

10. RADIO INTERFERENCE PREVENTION CAPABILITY MEASUREMENT

10.1 LIMIT

Item	Limits
Identification code	≧ 48 bits

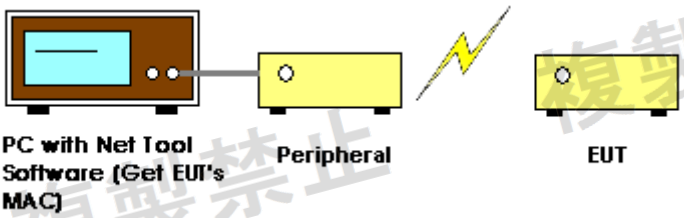
10.2 MEASURING ID CODE SOFTWARE

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 LAYOUT



10.5 TEST DEVIATION

There is no deviation with the original standard.

10.6 EUT OPERATION DURING TEST

The EUT was programmed to be in normal transmitting mode.

10.7 TEST RESULT OF RADIO INTERFERENCE PREVENTION CAPABILIT

EUT :	Smart Digital Signage	Model:	YSD-OD5508ZX
Temperature:	25^{0}C	Tested by:	Allen Liu
Humidity:	55 % RH	Test result:	Compliance

MAC Address: 0E:CA:F8:B3:EA:95

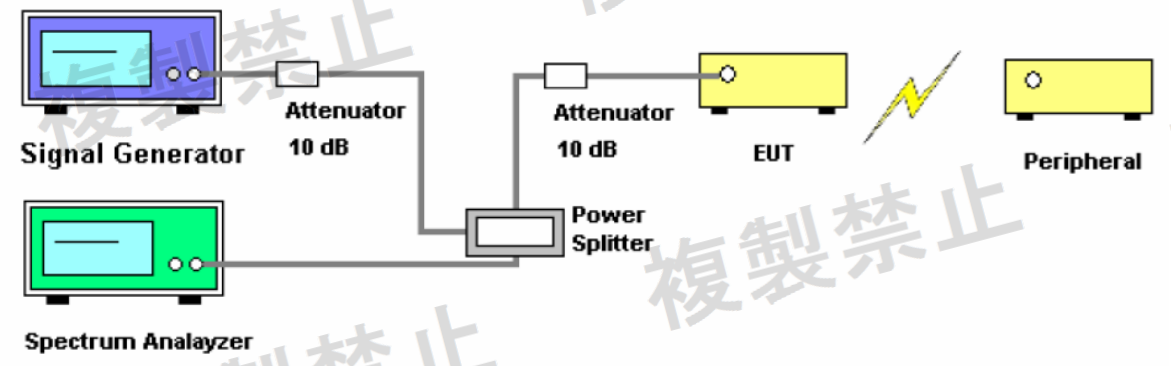
11 CARRIER SENSE FUNCTION

11.1 LIMIT

EUT stop RF transmission signal after carrier inject to EUT

11.2 TEST PROCEDURE

Measurement System Diagram



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*log(f)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=50MHz,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 transmitted signal.

11.3 TEST RESULT

EUT :	Smart Digital Signage	Model:	YSD-OD5508ZX
Temperature:	25^{0}C	Tested by:	Allen Liu
Humidity:	55 % RH	Test Voltage	Normal Voltage(AC 100V)
Operation Mode:	Normal Voltage-802.11n/ax40 mode		

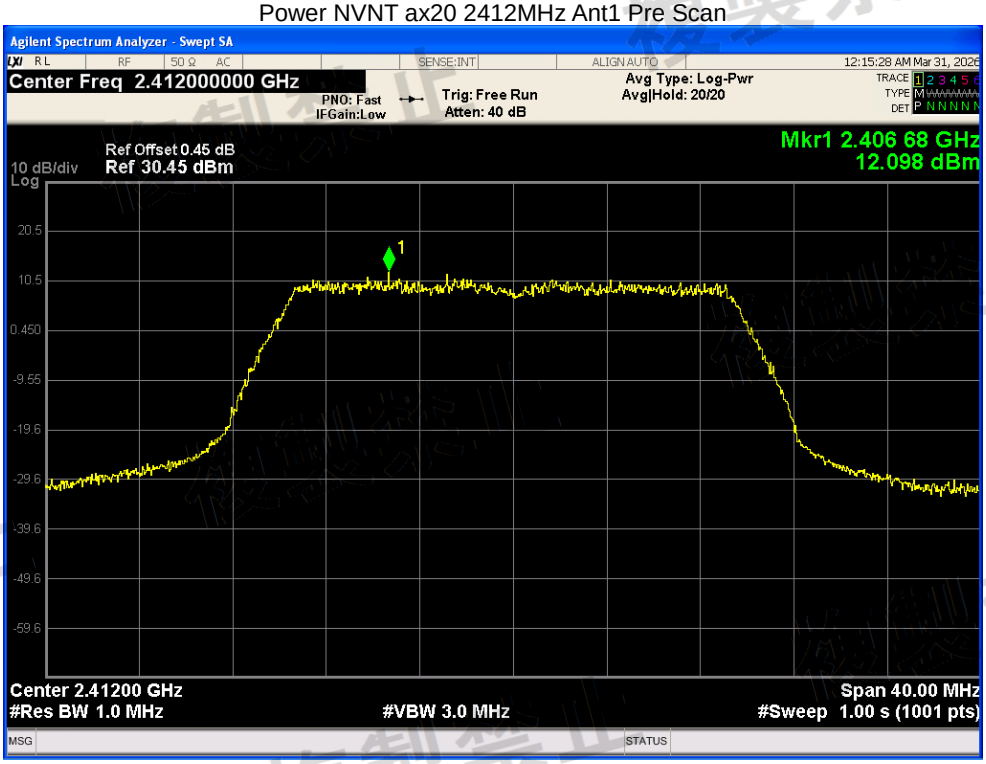
Mode	Channel	Result		
		Normal Voltage	High Voltage	Low Voltage
802.11n40	CH3	Pass	/	/
	CH7	Pass	/	/
	CH11	Pass	/	/
802.11ax40	CH3	Pass	/	/
	CH7	Pass	/	/
	CH11	Pass	/	/

12. TEST RESULTS

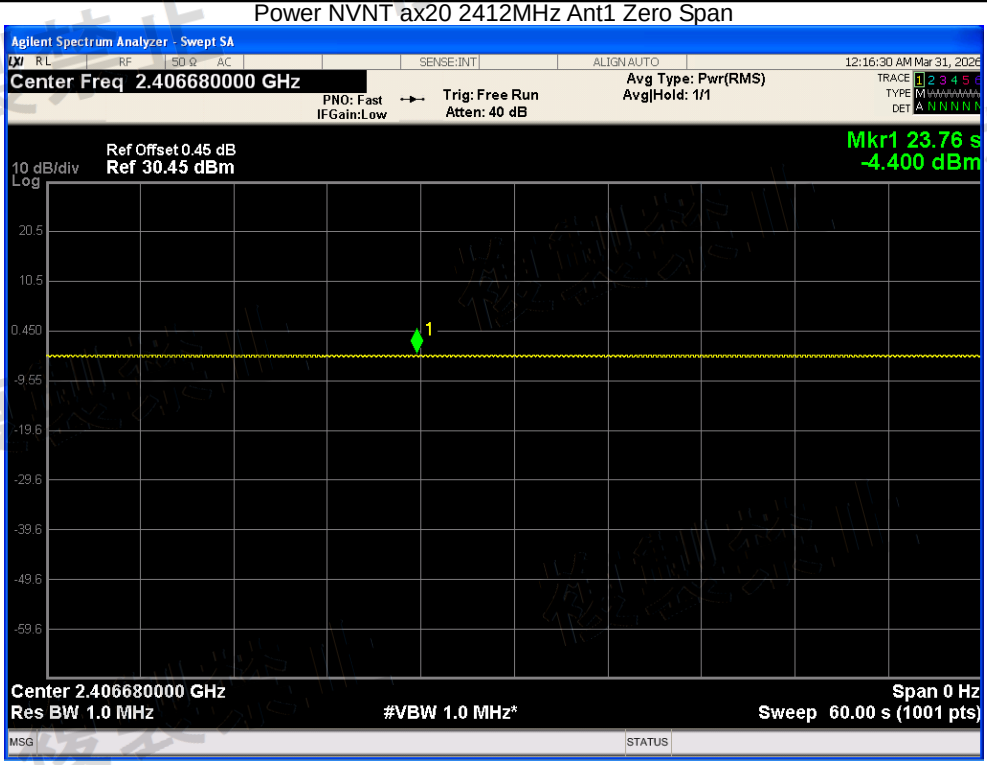
12.1 ANTENNA AND EIRP POWER

Condition	Mode	Frequency (MHz)	Antenna	Antenna Power (mW/MHz)	Declared Power (mW/MHz)	Tolerance (%)	Upper Limit (%)	Verdict
NVNT	ax20	2412	Ant1	0.363	0.5	-27.38	20	Pass
NVNT	ax20	2442	Ant1	0.331	0.5	-33.85	20	Pass
NVNT	ax20	2472	Ant1	0.349	0.5	-30.16	20	Pass
NVNT	ax40	2422	Ant1	0.151	0.5	-69.81	20	Pass
NVNT	ax40	2442	Ant1	0.144	0.5	-71.12	20	Pass
NVNT	ax40	2462	Ant1	0.19	0.5	-62.05	20	Pass
NVNT	b	2412	Ant1	0.607	1	-39.31	20	Pass
NVNT	b	2442	Ant1	0.593	1	-40.65	20	Pass
NVNT	b	2472	Ant1	0.629	1	-37.08	20	Pass
NVNT	g	2412	Ant1	0.436	0.5	-12.82	20	Pass
NVNT	g	2442	Ant1	0.407	0.5	-18.58	20	Pass
NVNT	g	2472	Ant1	0.421	0.5	-15.82	20	Pass
NVNT	n20	2412	Ant1	0.377	0.5	-24.52	20	Pass
NVNT	n20	2442	Ant1	0.343	0.5	-31.41	20	Pass
NVNT	n20	2472	Ant1	0.375	0.5	-24.9	20	Pass
NVNT	n40	2422	Ant1	0.139	0.2	-30.36	20	Pass
NVNT	n40	2442	Ant1	0.148	0.2	-25.93	20	Pass
NVNT	n40	2462	Ant1	0.164	0.2	-17.82	20	Pass

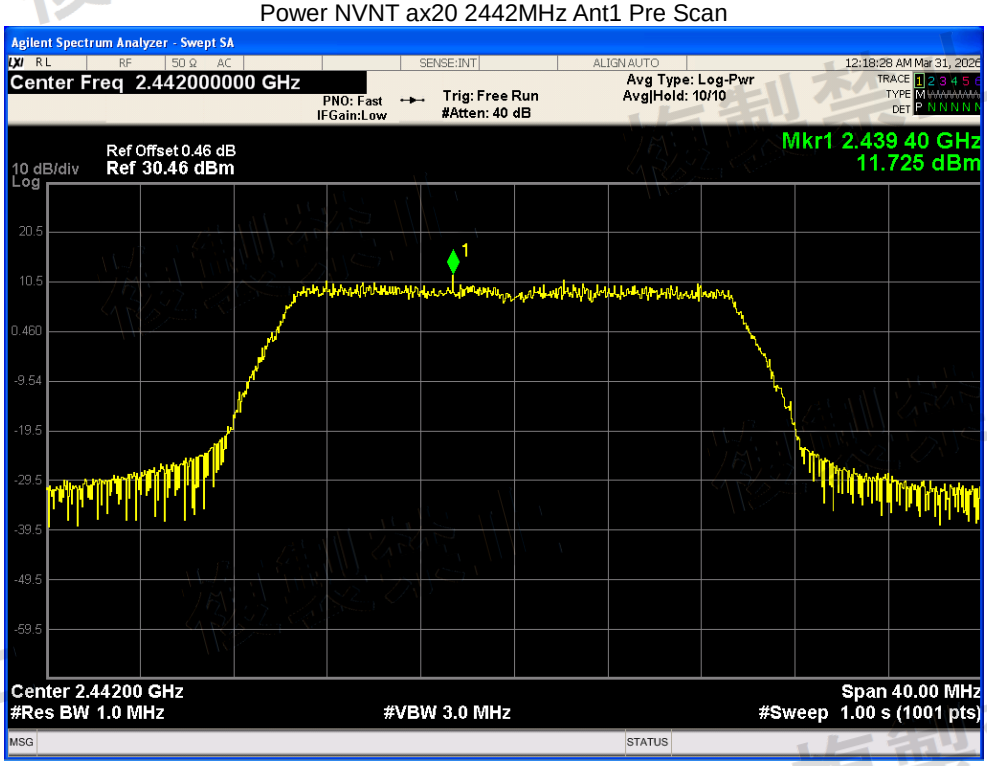
Power NVNT ax20 2412MHz Ant1 Pre Scan



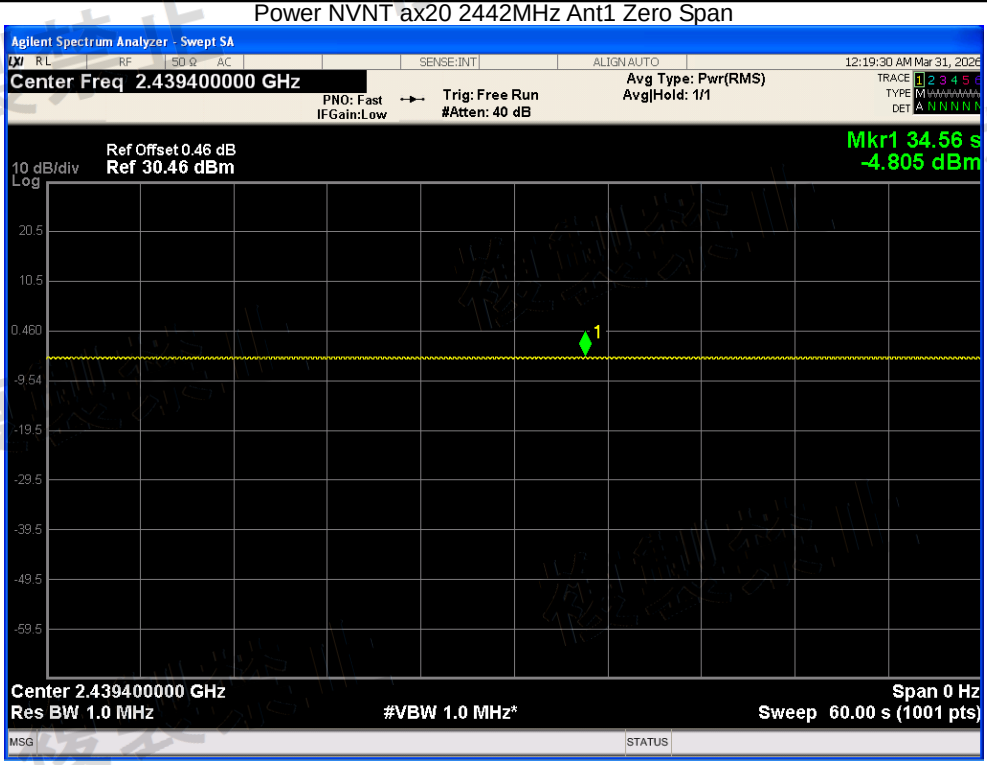
Power NVNT ax20 2412MHz Ant1 Zero Span



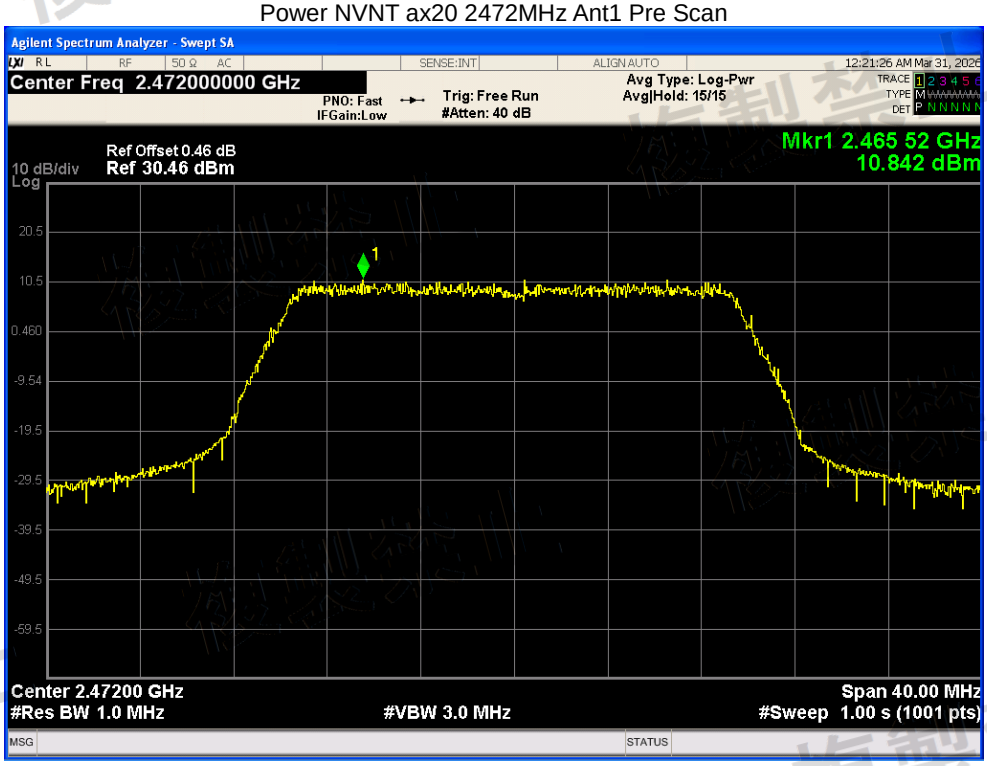
Power NVNT ax20 2442MHz Ant1 Pre Scan



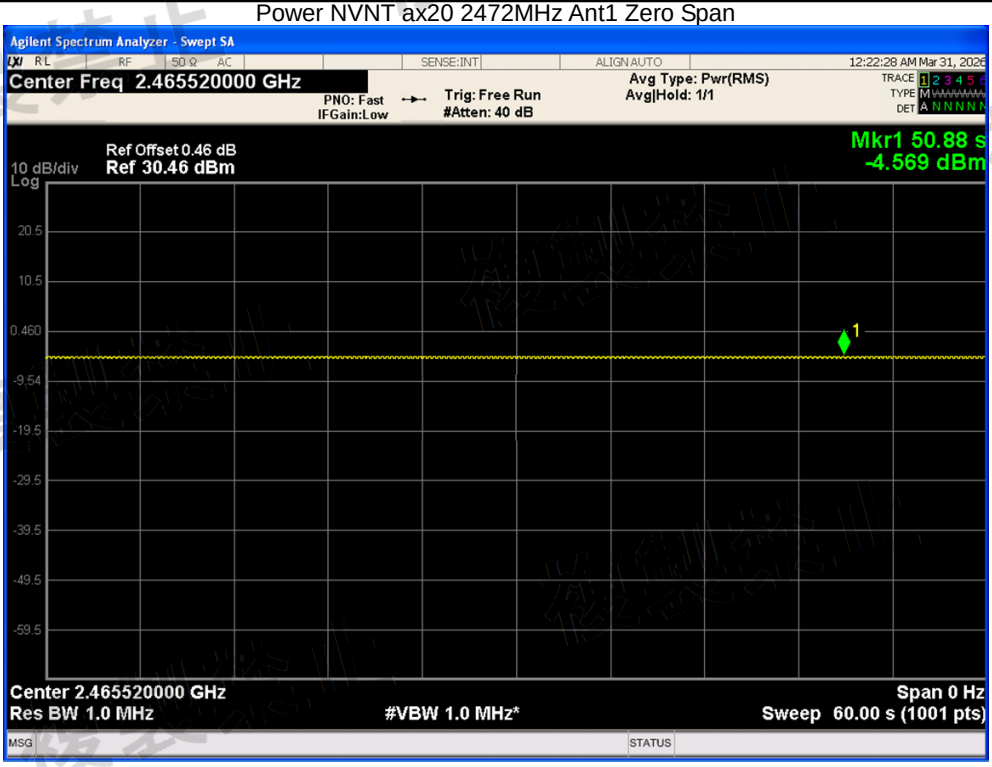
Power NVNT ax20 2442MHz Ant1 Zero Span



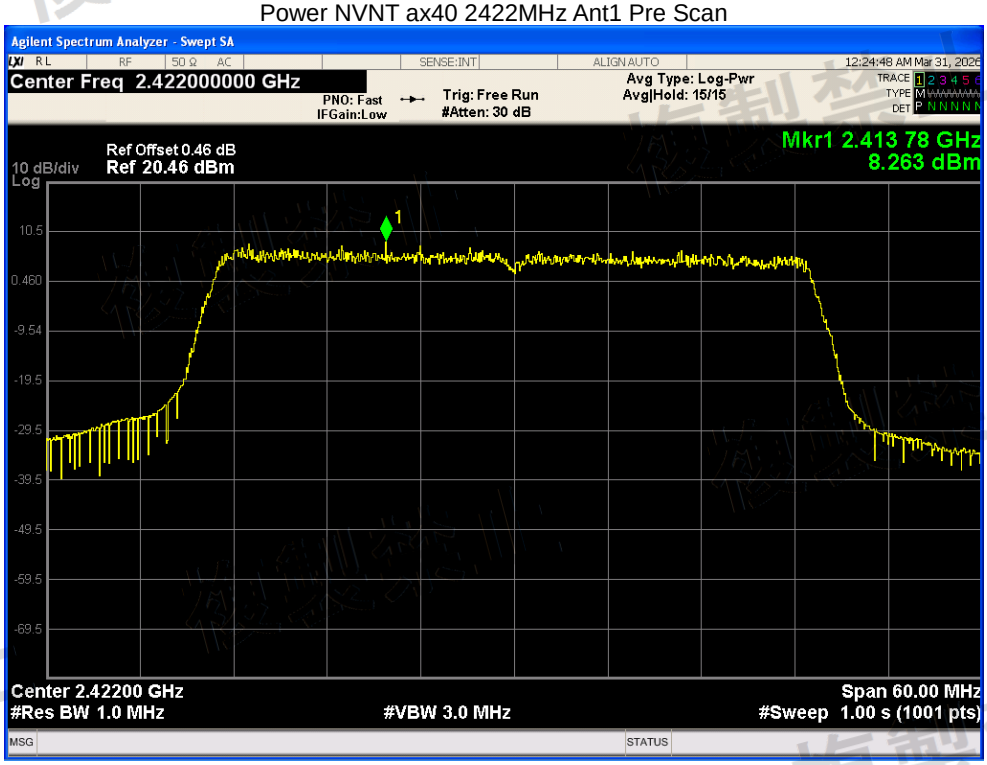
Power NVNT ax20 2472MHz Ant1 Pre Scan



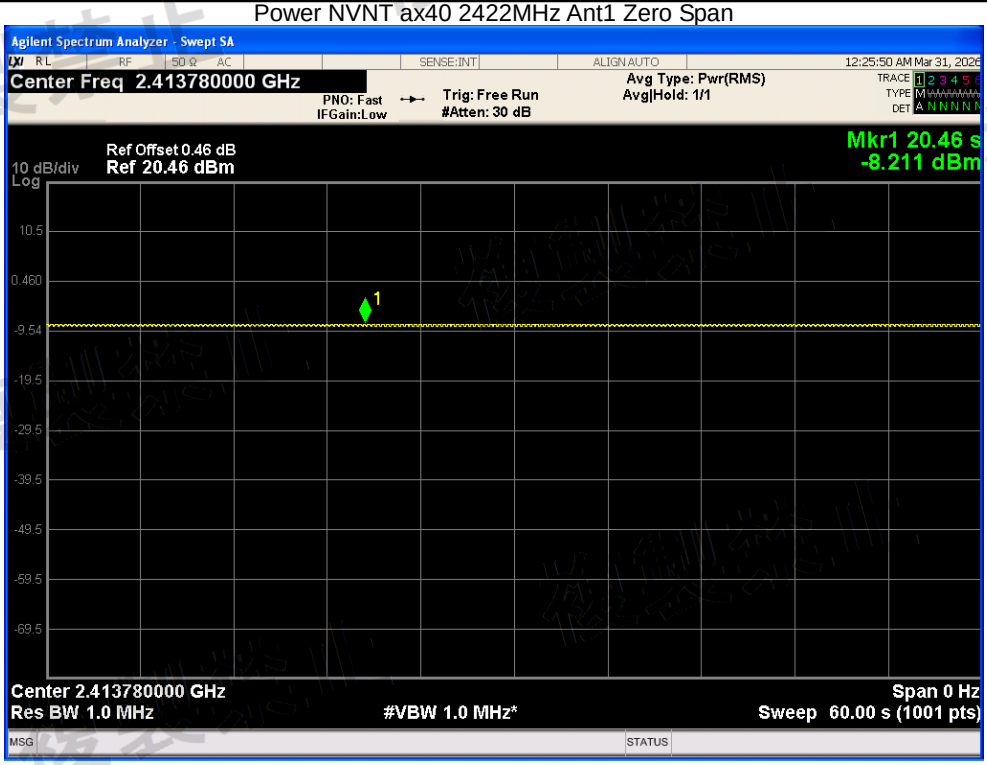
Power NVNT ax20 2472MHz Ant1 Zero Span



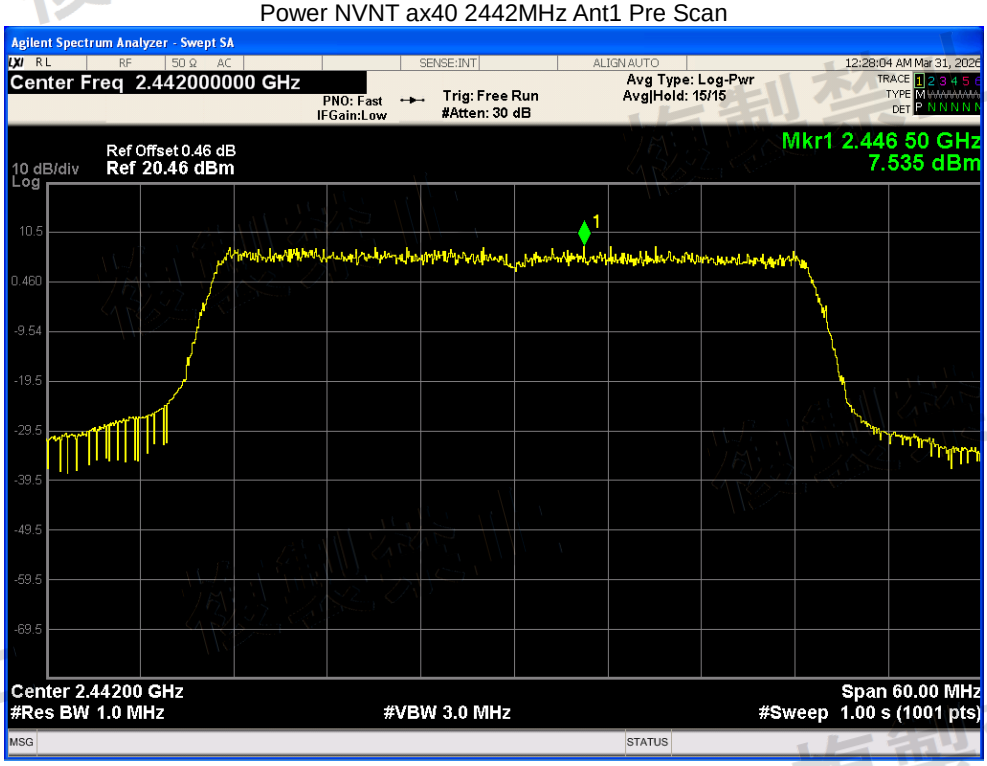
Power NVNT ax40 2422MHz Ant1 Pre Scan



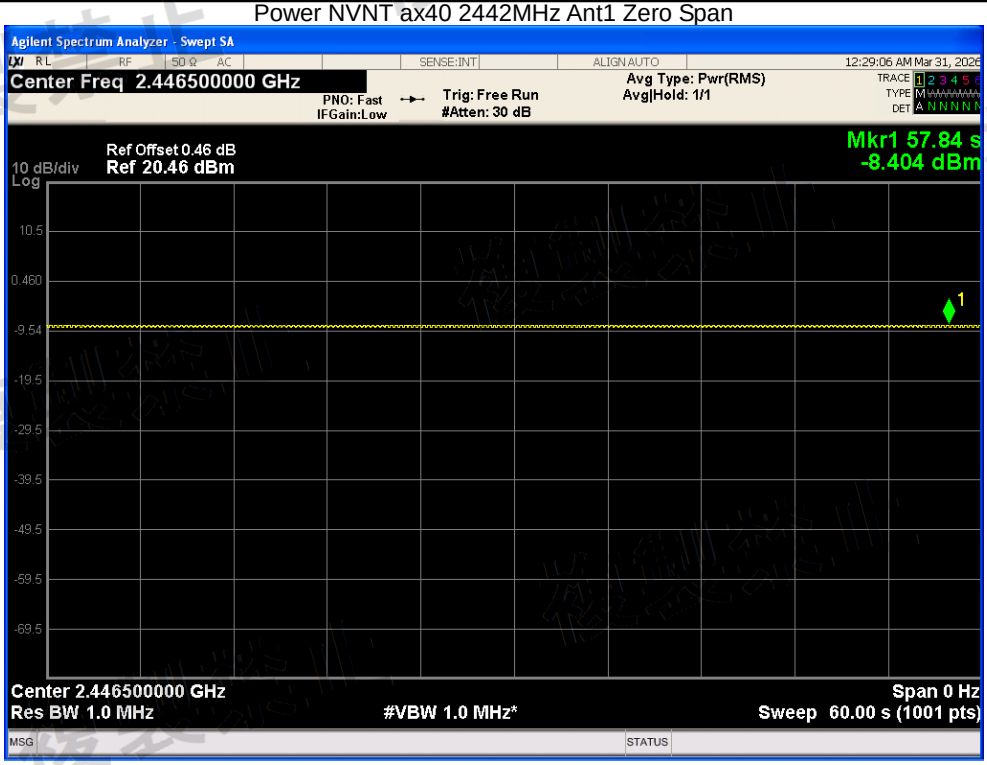
Power NVNT ax40 2422MHz Ant1 Zero Span



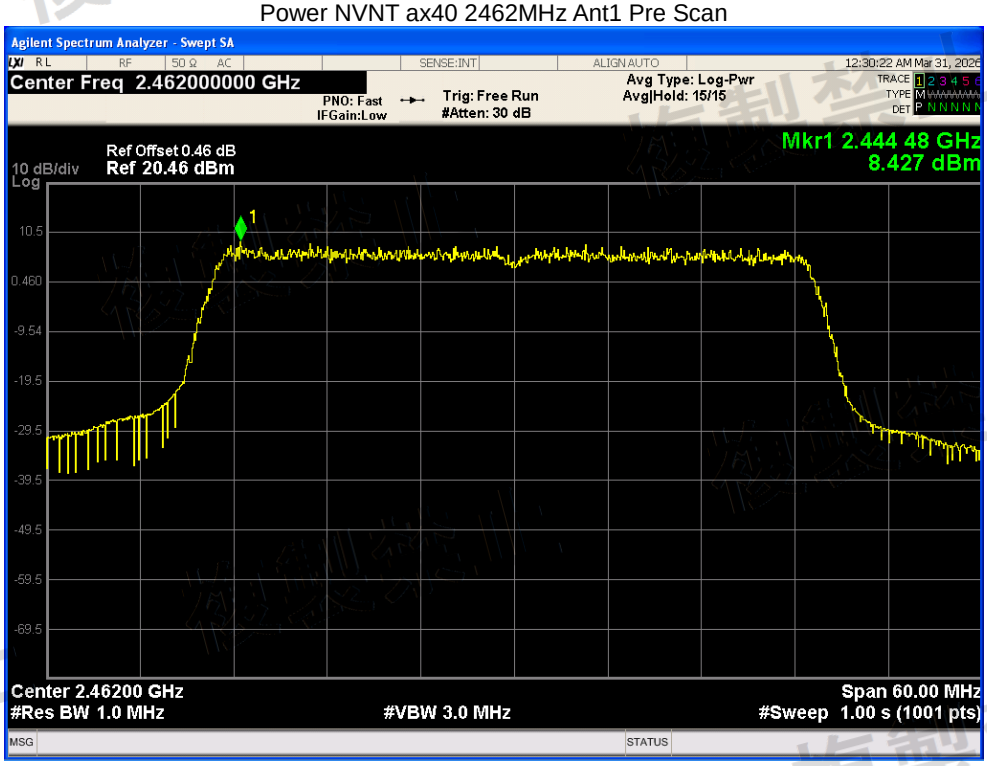
Power NVNT ax40 2442MHz Ant1 Pre Scan



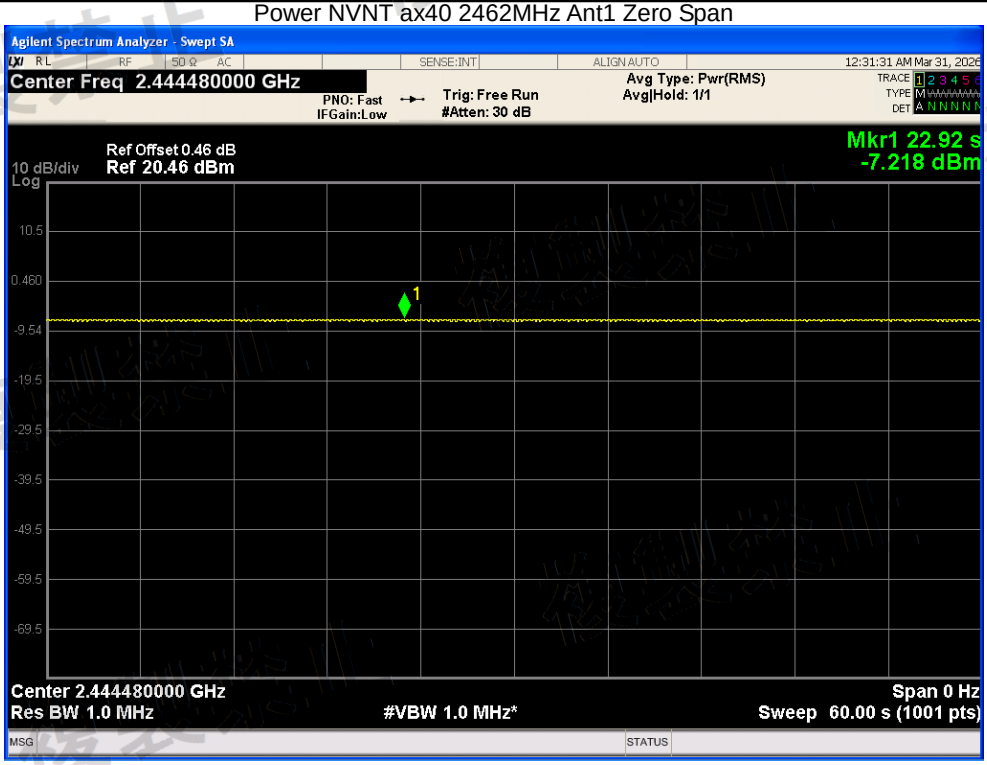
Power NVNT ax40 2442MHz Ant1 Zero Span



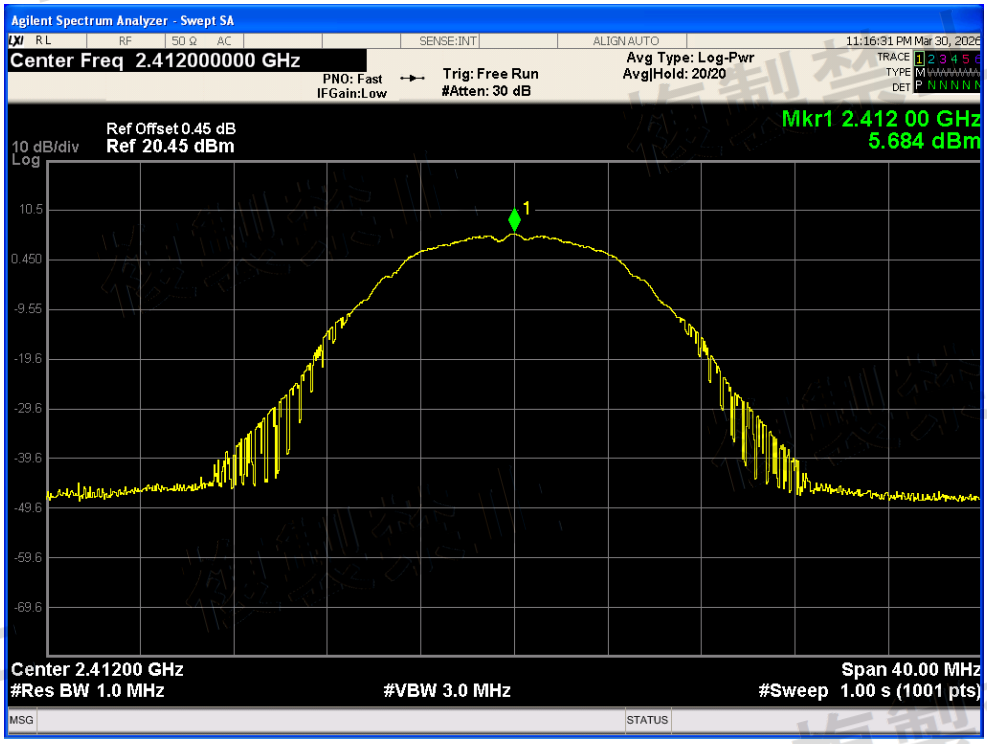
Power NVNT ax40 2462MHz Ant1 Pre Scan



Power NVNT ax40 2462MHz Ant1 Zero Span

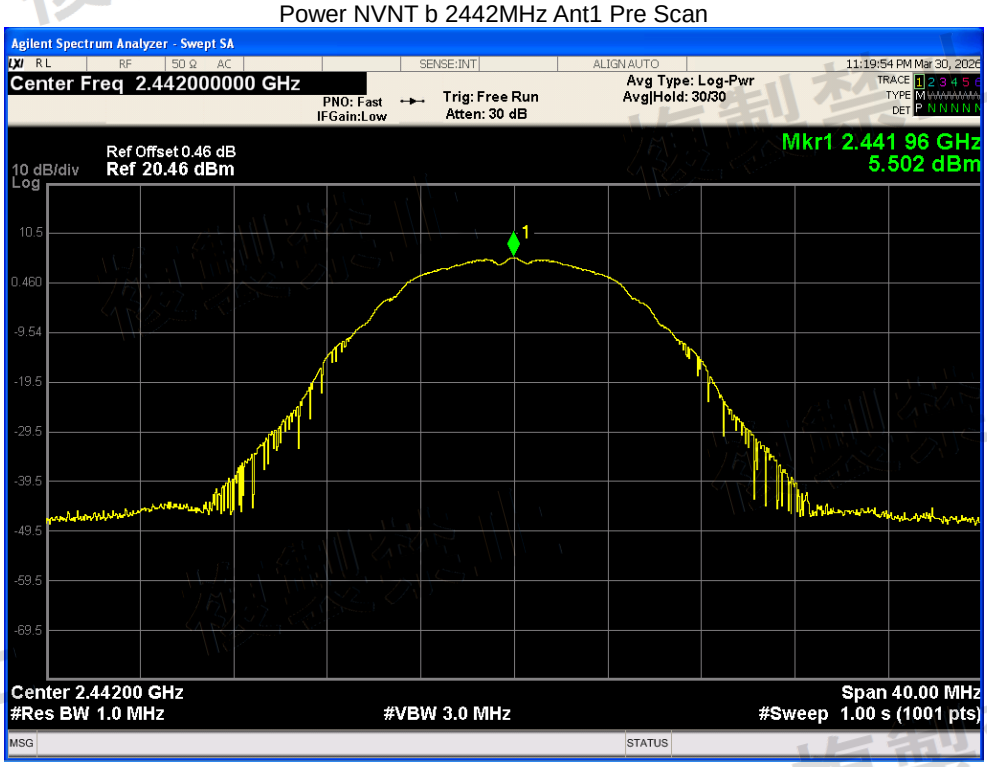


Power NVNT b 2412MHz Ant1 Pre Scan



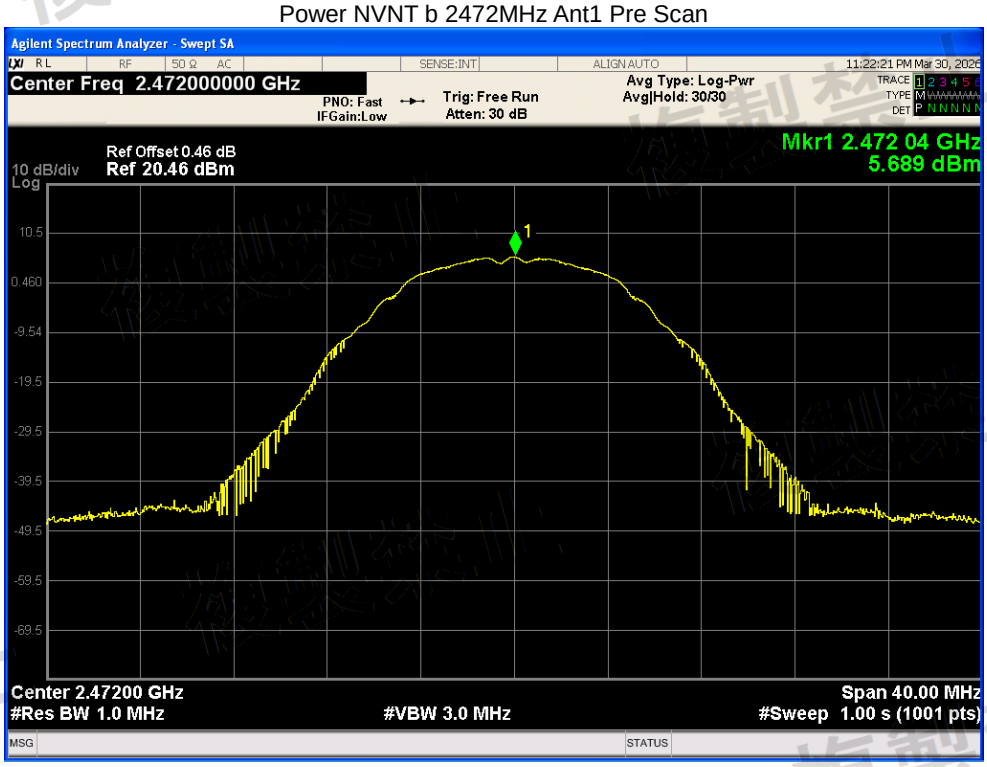
Power NVNT b 2412MHz Ant1 Zero Span

Power NVNT b 2442MHz Ant1 Pre Scan

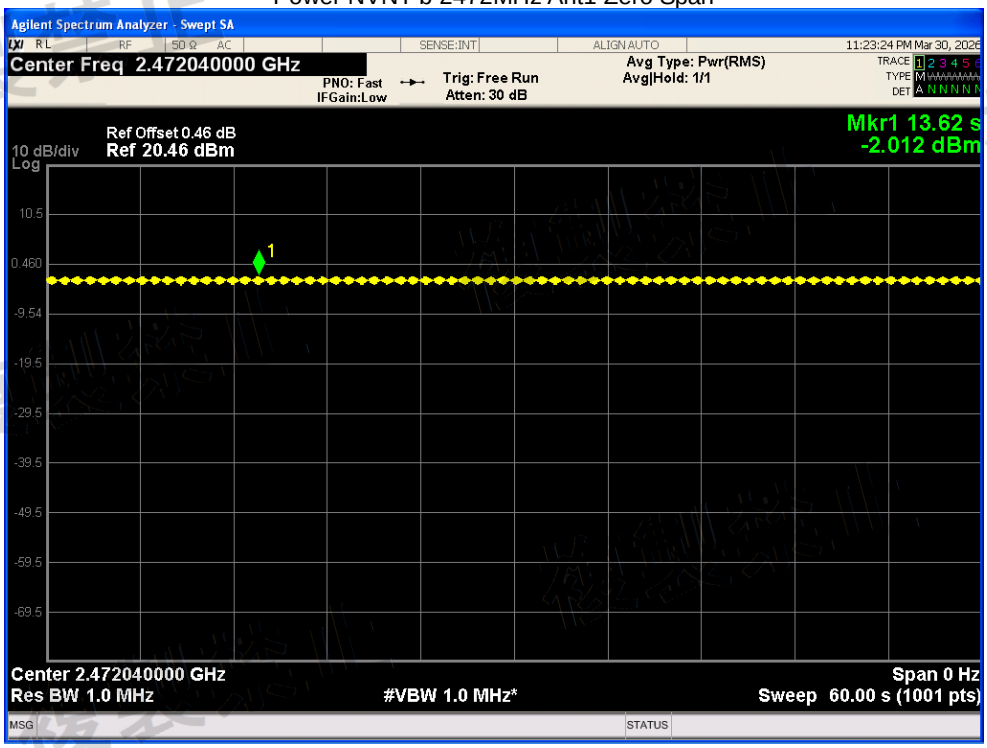


Power NVNT b 2442MHz Ant1 Zero Span

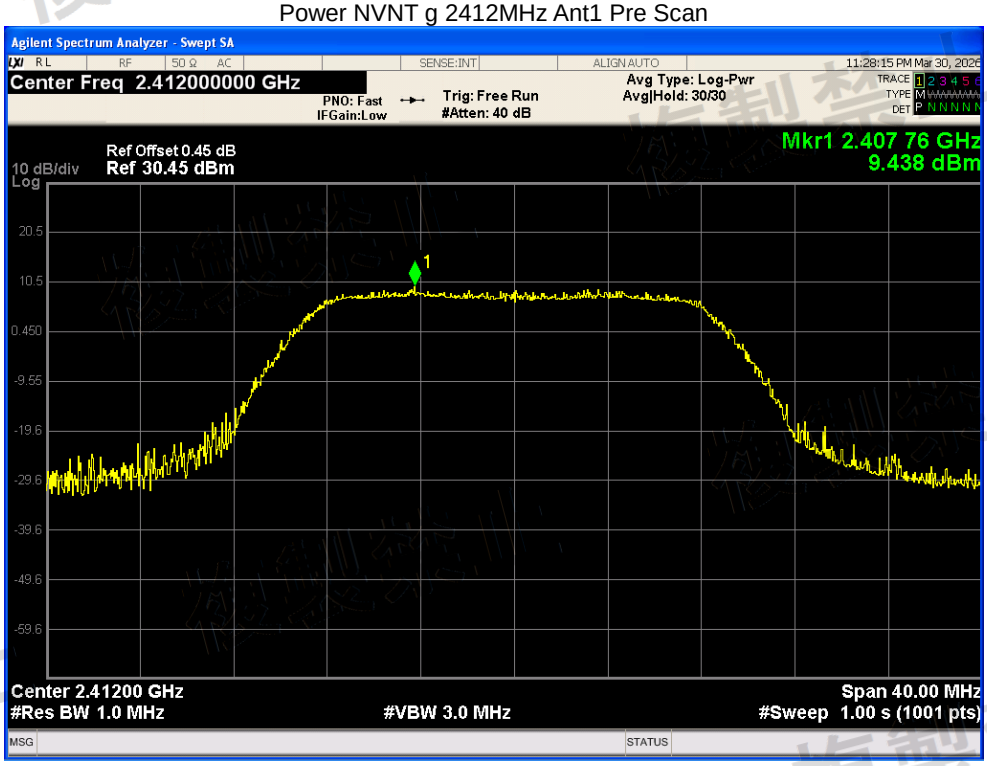
Power NVNT b 2472MHz Ant1 Pre Scan



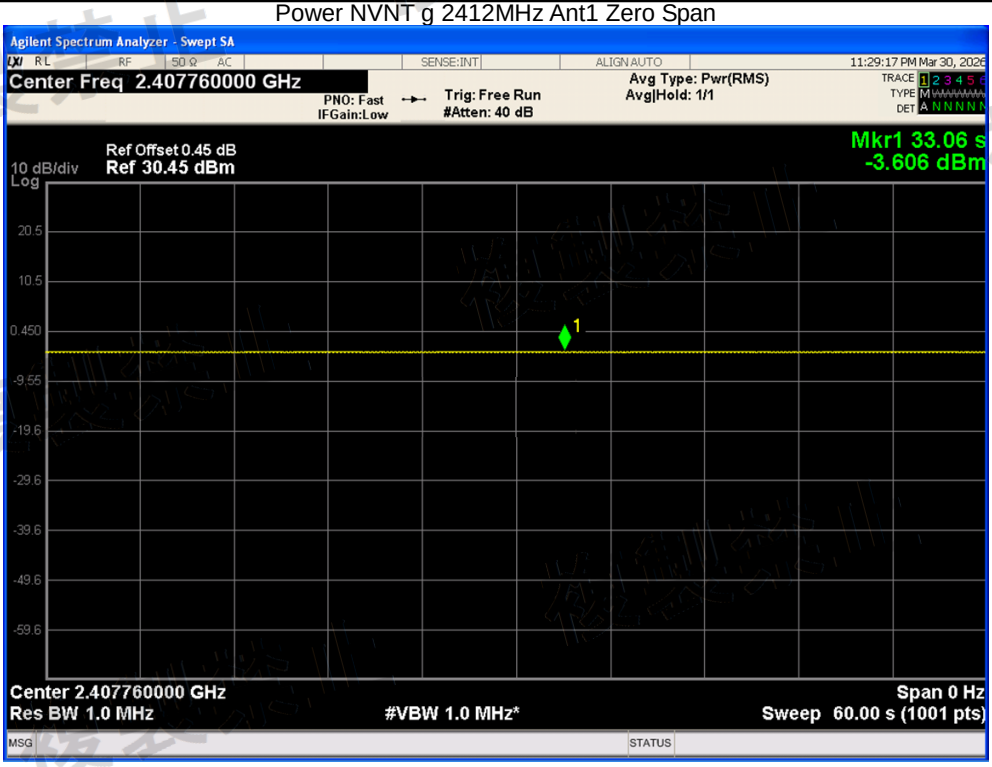
Power NVNT b 2472MHz Ant1 Zero Span



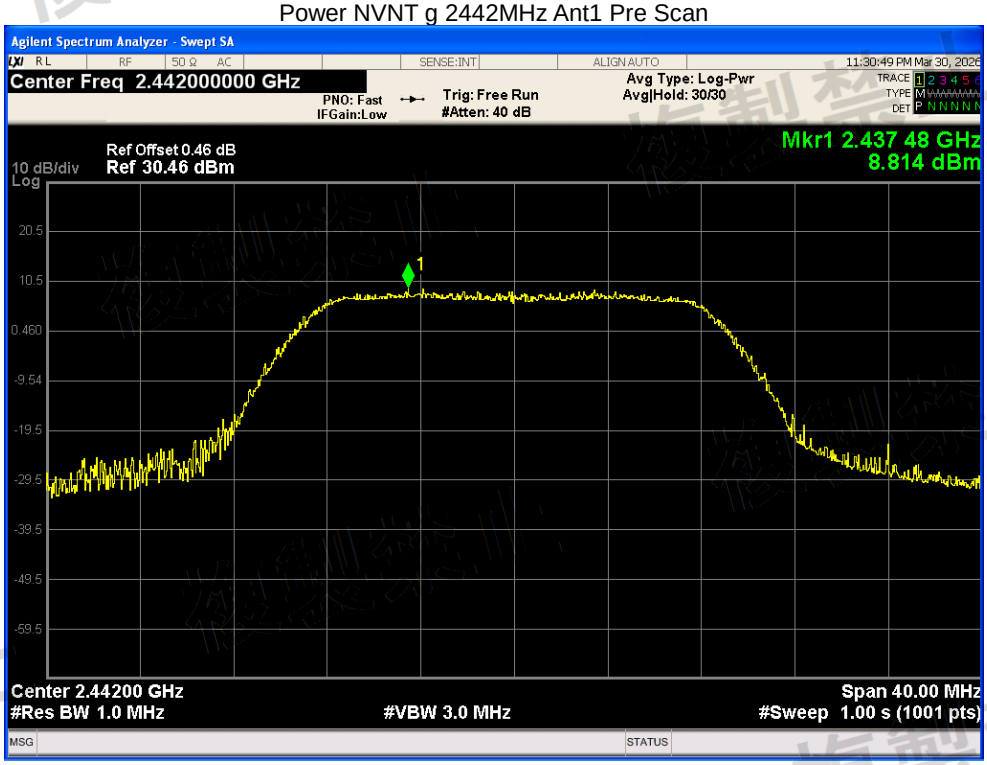
Power NVNT g 2412MHz Ant1 Pre Scan



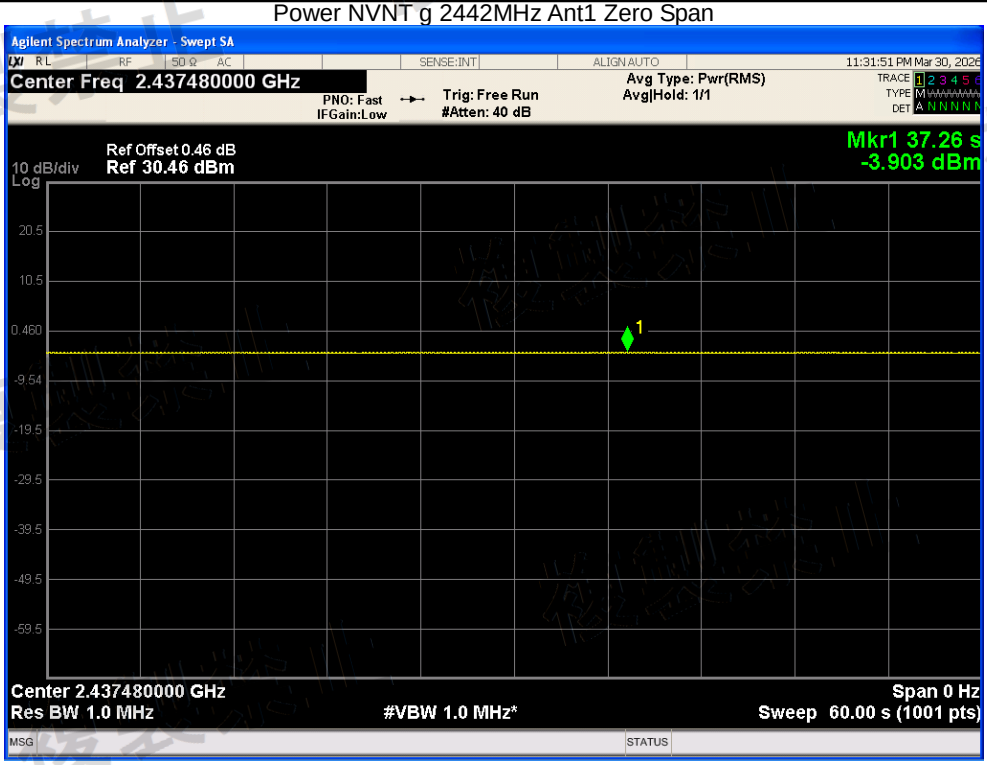
Power NVNT g 2412MHz Ant1 Zero Span



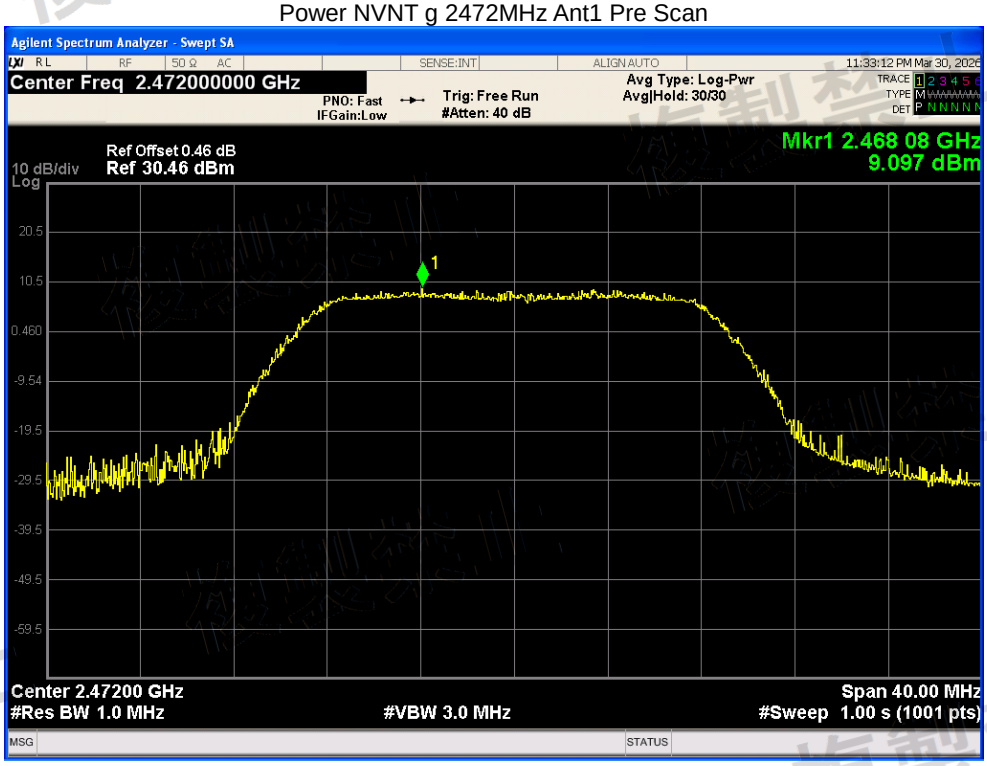
Power NVNT g 2442MHz Ant1 Pre Scan



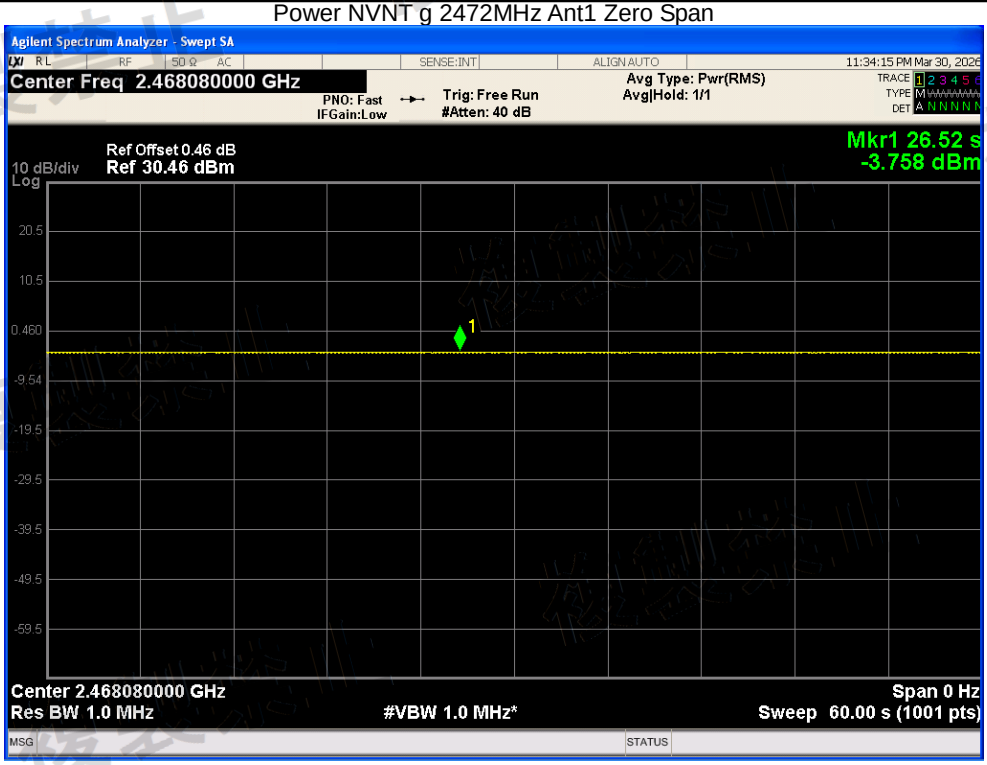
Power NVNT g 2442MHz Ant1 Zero Span



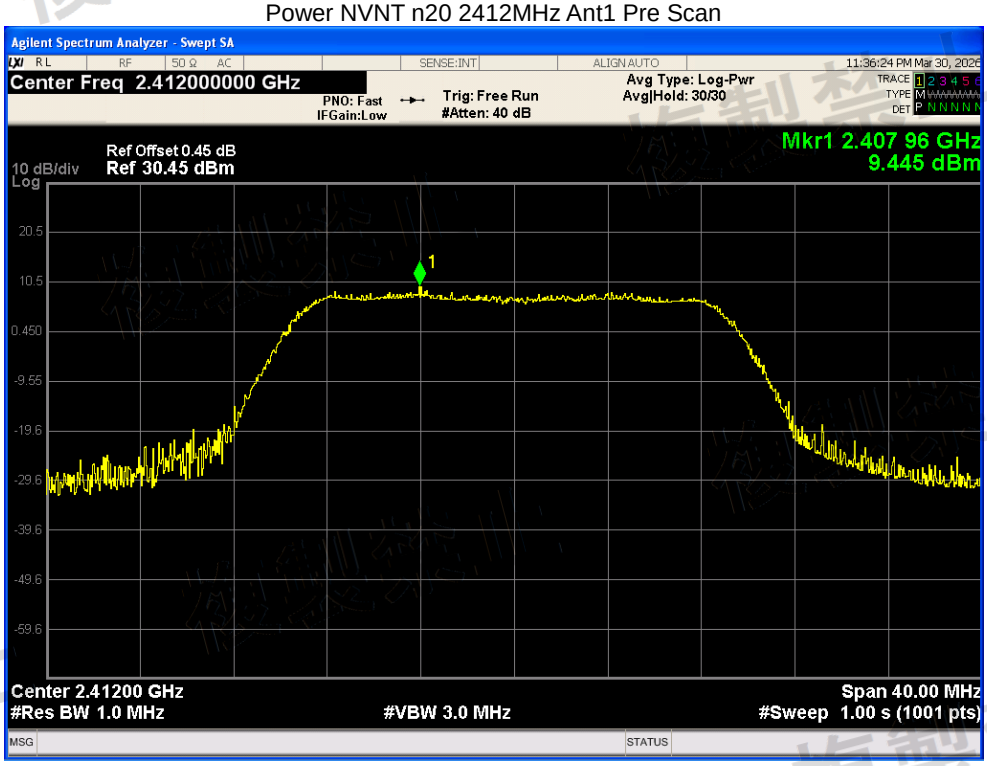
Power NVNT g 2472MHz Ant1 Pre Scan



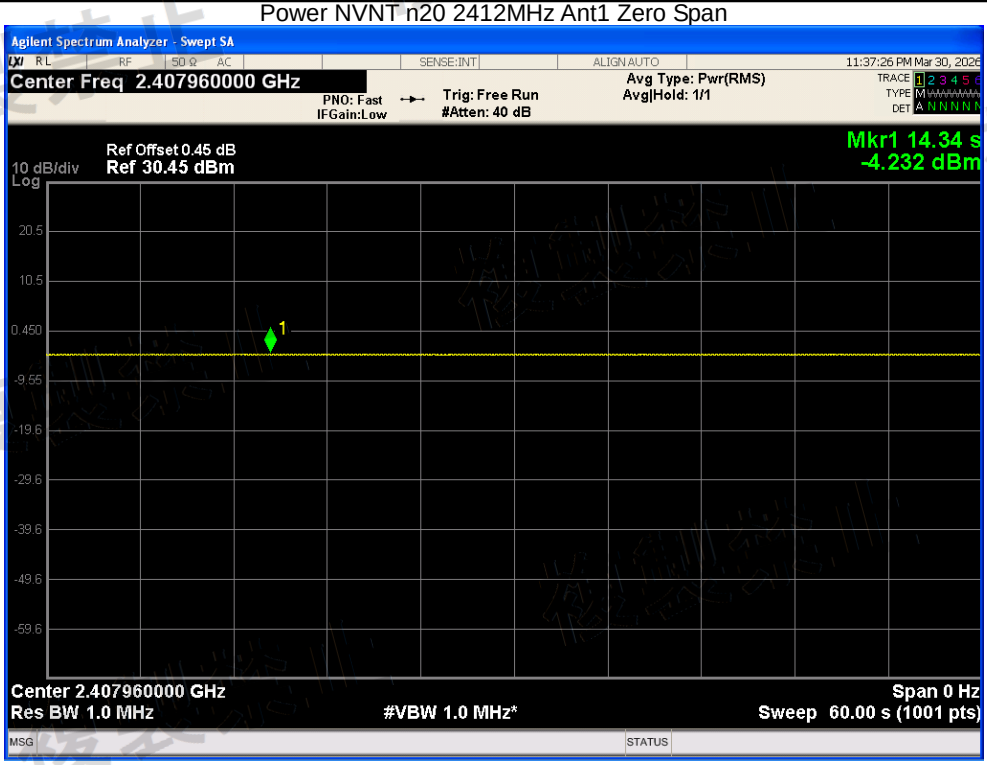
Power NVNT g 2472MHz Ant1 Zero Span



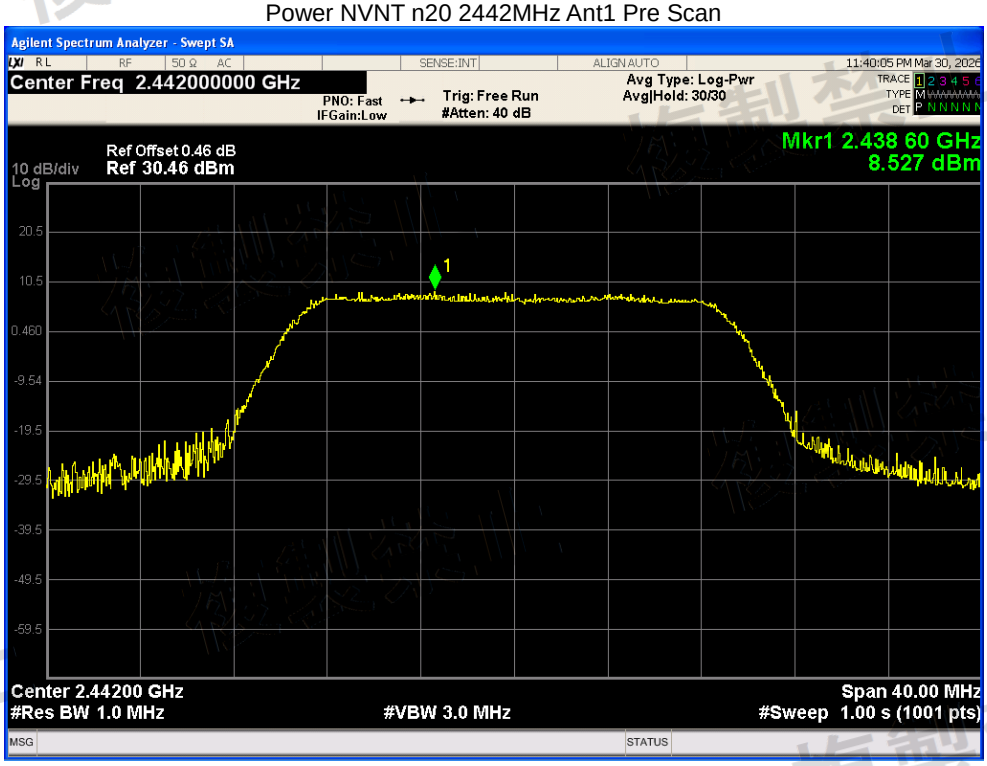
Power NVNT n20 2412MHz Ant1 Pre Scan



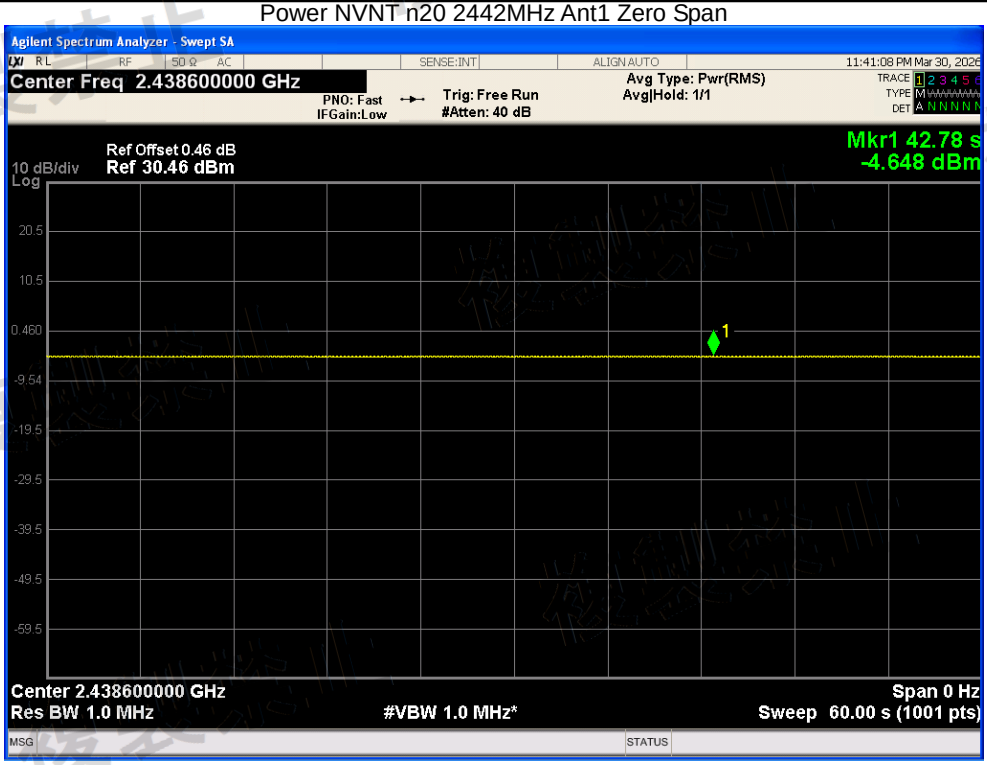
Power NVNT n20 2412MHz Ant1 Zero Span



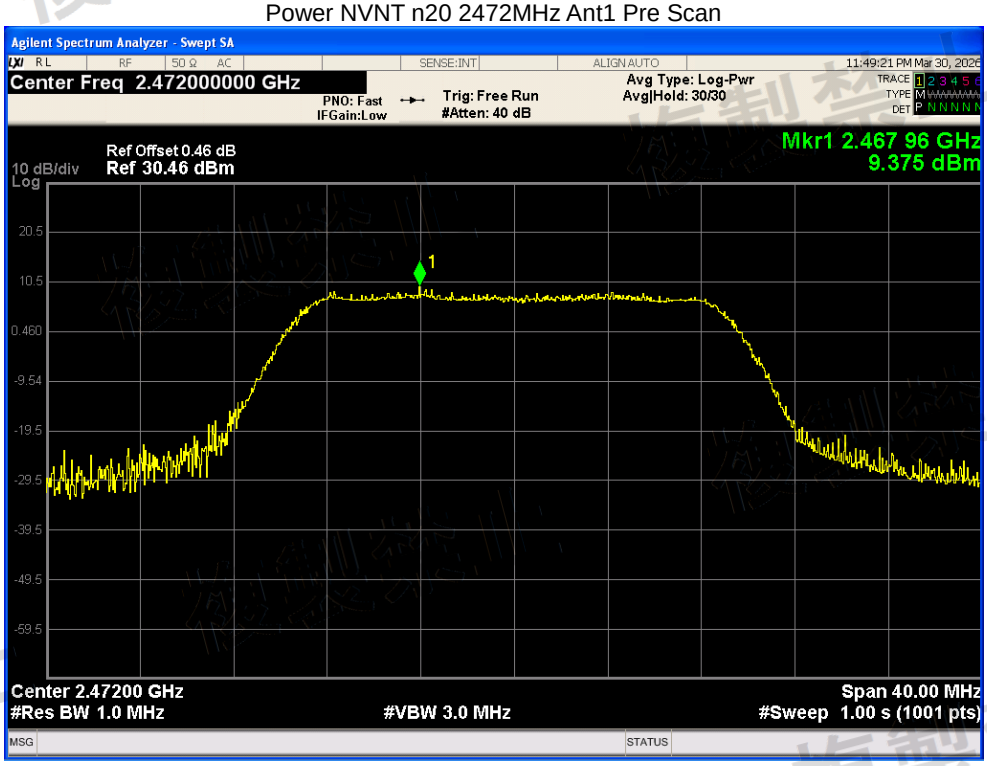
Power NVNT n20 2442MHz Ant1 Pre Scan



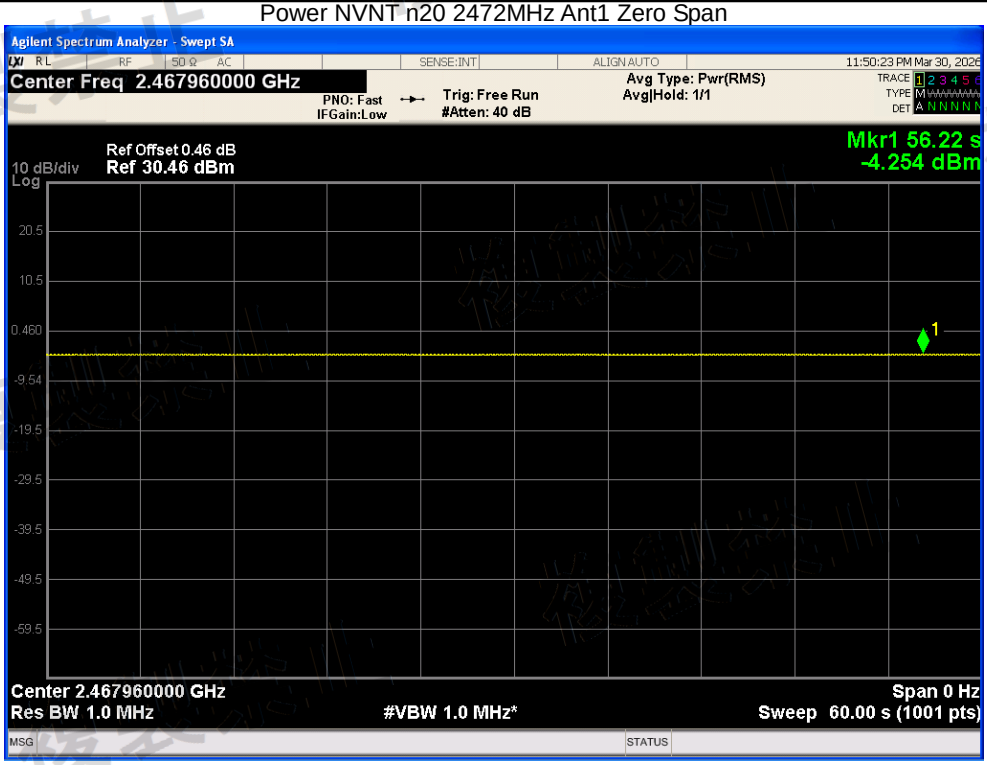
Power NVNT n20 2442MHz Ant1 Zero Span



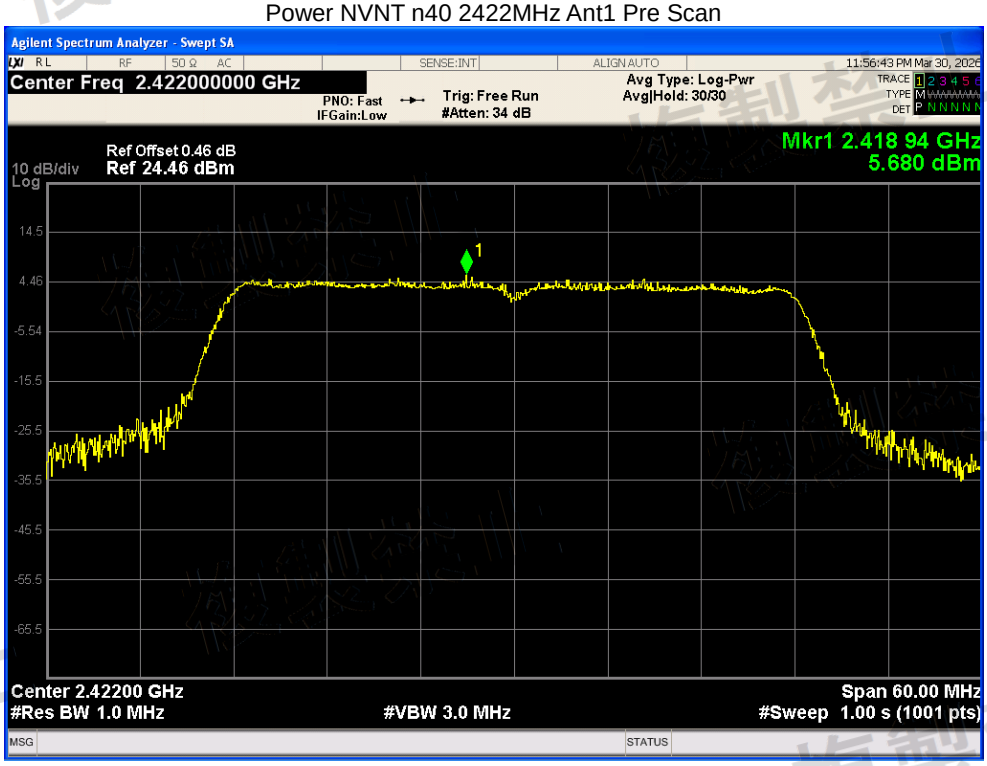
Power NVNT n20 2472MHz Ant1 Pre Scan



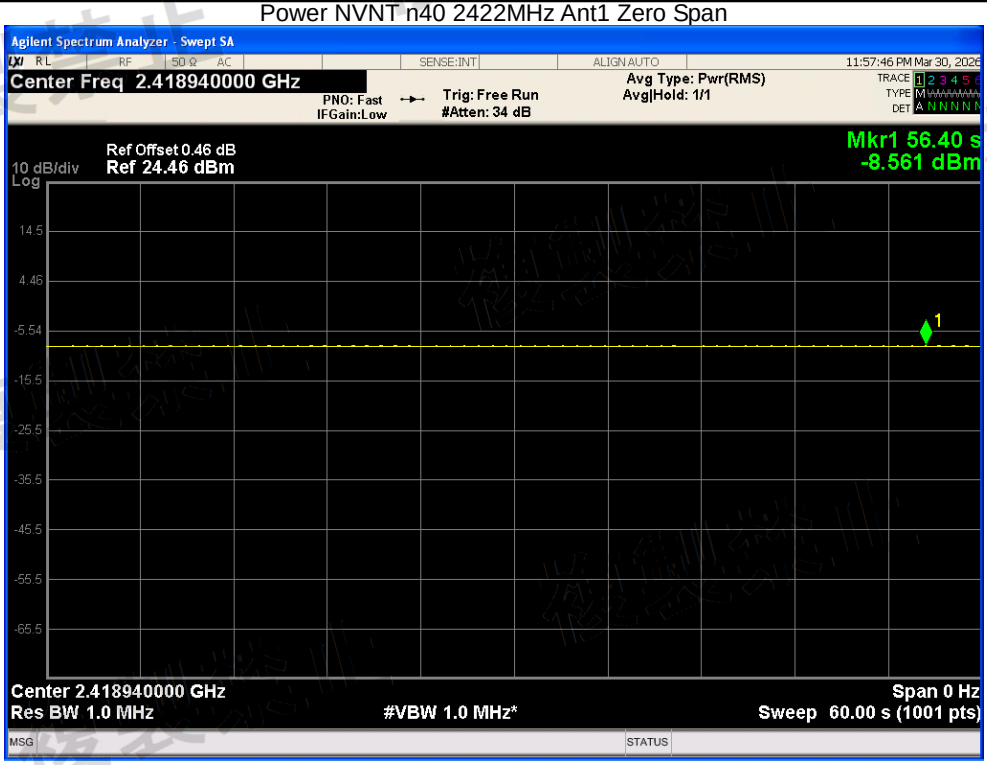
Power NVNT n20 2472MHz Ant1 Zero Span



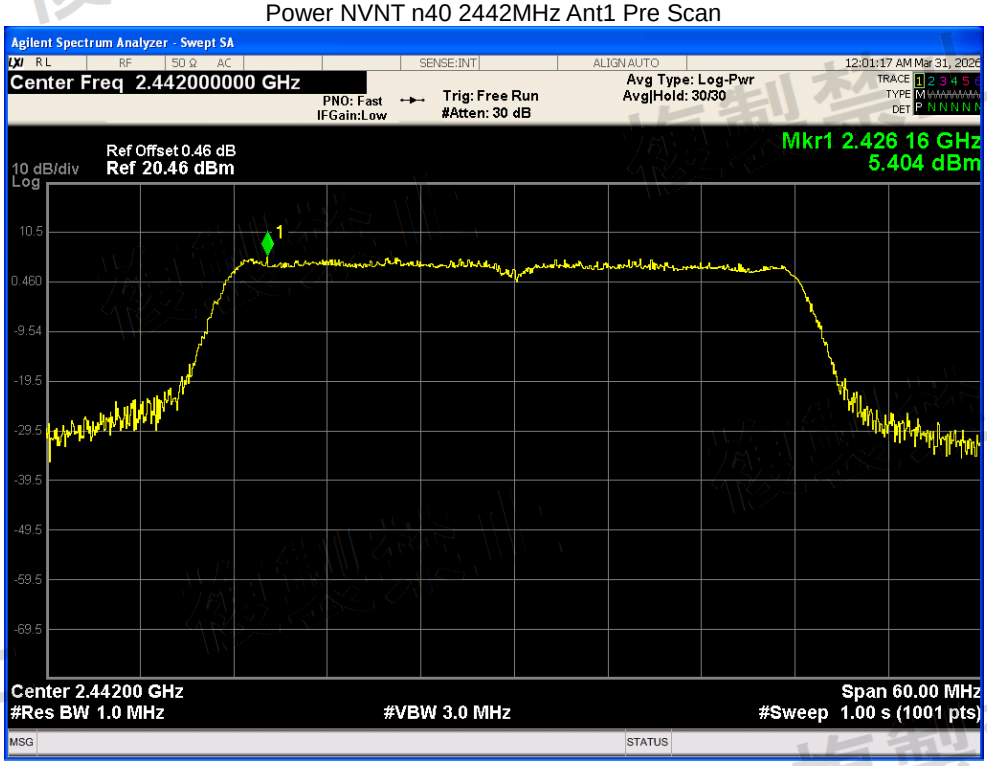
Power NVNT n40 2422MHz Ant1 Pre Scan



Power NVNT n40 2422MHz Ant1 Zero Span

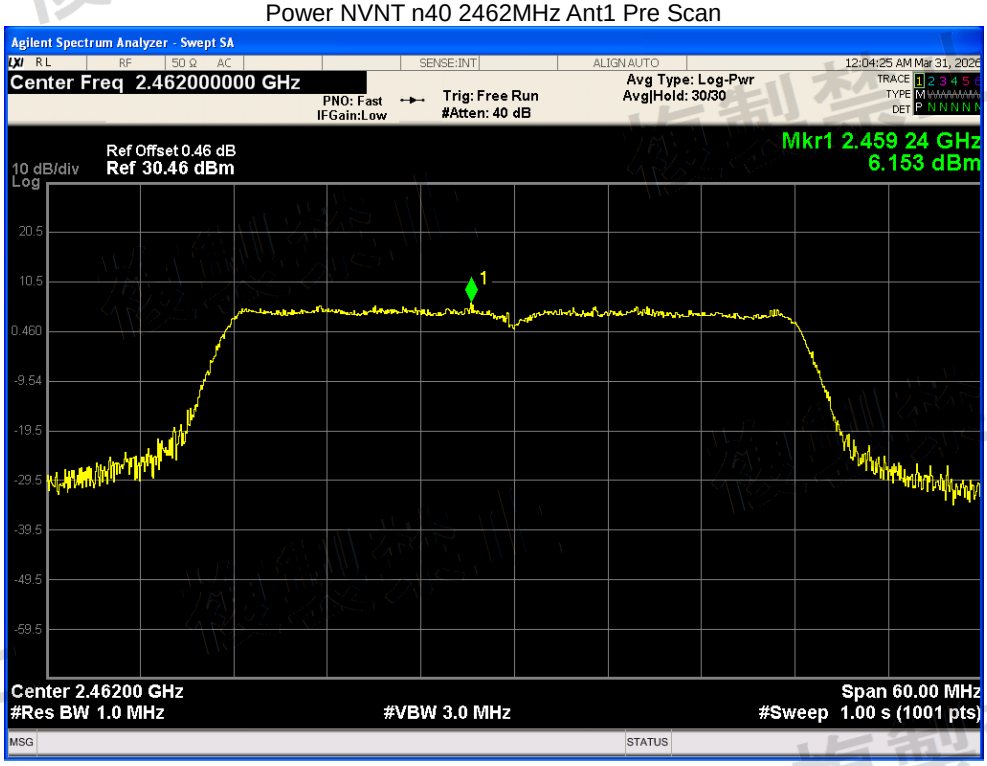


Power NVNT n40 2442MHz Ant1 Pre Scan

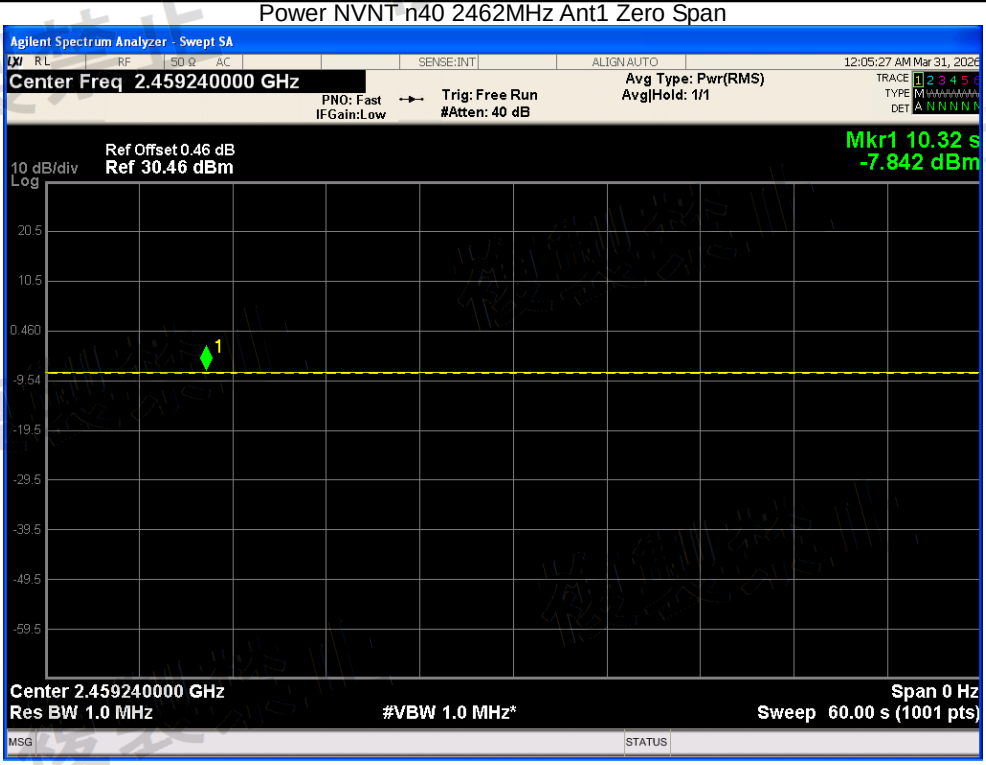


Power NVNT n40 2442MHz Ant1 Zero Span

Power NVNT n40 2462MHz Ant1 Pre Scan



Power NVNT n40 2462MHz Ant1 Zero Span



12.2 EIRP POWER

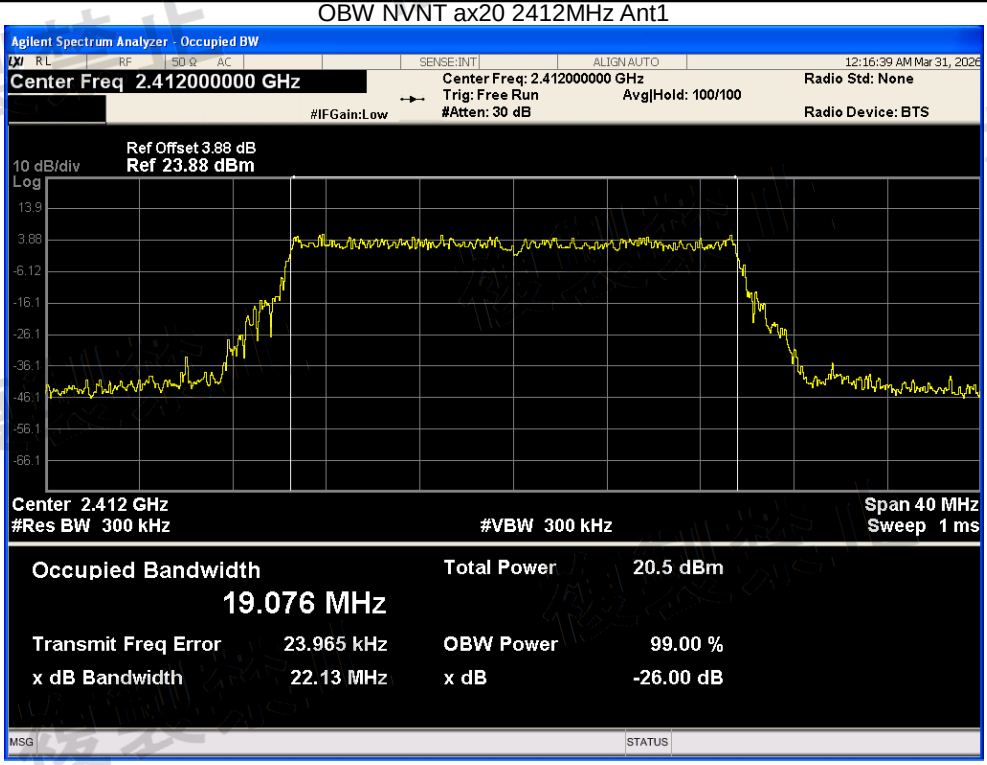
Condition	Mode	Frequency (MHz)	Antenna	Antenna Power (mW/MHz)	Gain (dBi)	EIRP Power (dBm/MHz)	Limit (dBm/MHz)	Verdict
NVNT	ax20	2412	Ant1	0.363	3.43	-0.97	12.14	Pass
NVNT	ax20	2442	Ant1	0.331	3.43	-1.375	12.14	Pass
NVNT	ax20	2472	Ant1	0.349	3.43	-1.139	12.14	Pass
NVNT	ax40	2422	Ant1	0.151	3.43	-4.781	9.13	Pass
NVNT	ax40	2442	Ant1	0.144	3.43	-4.974	9.13	Pass
NVNT	ax40	2462	Ant1	0.19	3.43	-3.788	9.13	Pass
NVNT	b	2412	Ant1	0.607	3.43	1.261	12.14	Pass
NVNT	b	2442	Ant1	0.593	3.43	1.164	12.14	Pass
NVNT	b	2472	Ant1	0.629	3.43	1.418	12.14	Pass
NVNT	g	2412	Ant1	0.436	3.43	-0.176	12.14	Pass
NVNT	g	2442	Ant1	0.407	3.43	-0.473	12.14	Pass
NVNT	g	2472	Ant1	0.421	3.43	-0.328	12.14	Pass
NVNT	n20	2412	Ant1	0.377	3.43	-0.802	12.14	Pass
NVNT	n20	2442	Ant1	0.343	3.43	-1.218	12.14	Pass
NVNT	n20	2472	Ant1	0.375	3.43	-0.824	12.14	Pass
NVNT	n40	2422	Ant1	0.139	3.43	-5.131	9.13	Pass
NVNT	n40	2442	Ant1	0.148	3.43	-4.863	9.13	Pass
NVNT	n40	2462	Ant1	0.164	3.43	-4.412	9.13	Pass

12.3 OCCUPIED CHANNEL BANDWIDTH

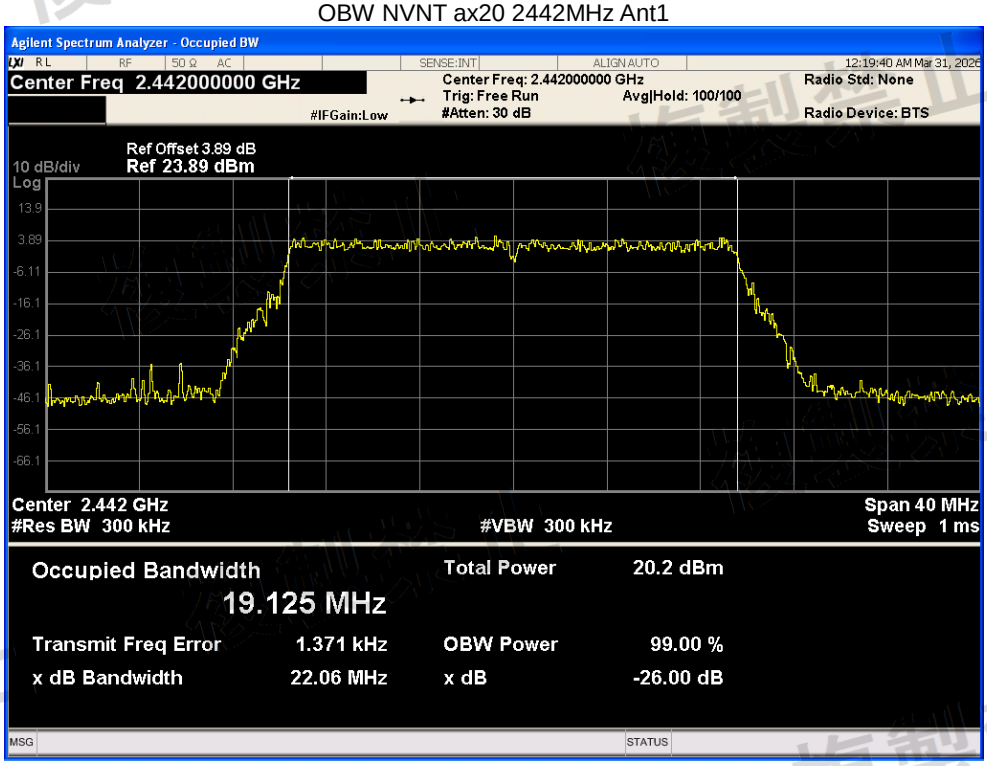
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	ax20	2412	Ant1	19.076
NVNT	ax20	2442	Ant1	19.125
NVNT	ax20	2472	Ant1	19.14
NVNT	ax40	2422	Ant1	37.921
NVNT	ax40	2442	Ant1	37.947
NVNT	ax40	2462	Ant1	37.846
NVNT	b	2412	Ant1	12.65
NVNT	b	2442	Ant1	12.652
NVNT	b	2472	Ant1	12.643
NVNT	g	2412	Ant1	17.152
NVNT	g	2442	Ant1	17.123
NVNT	g	2472	Ant1	17.051
NVNT	n20	2412	Ant1	18.036
NVNT	n20	2442	Ant1	18.099
NVNT	n20	2472	Ant1	18.05
NVNT	n40	2422	Ant1	36.407
NVNT	n40	2442	Ant1	36.338
NVNT	n40	2462	Ant1	36.28

複製禁止

OBW NVNT ax20 2412MHz Ant1

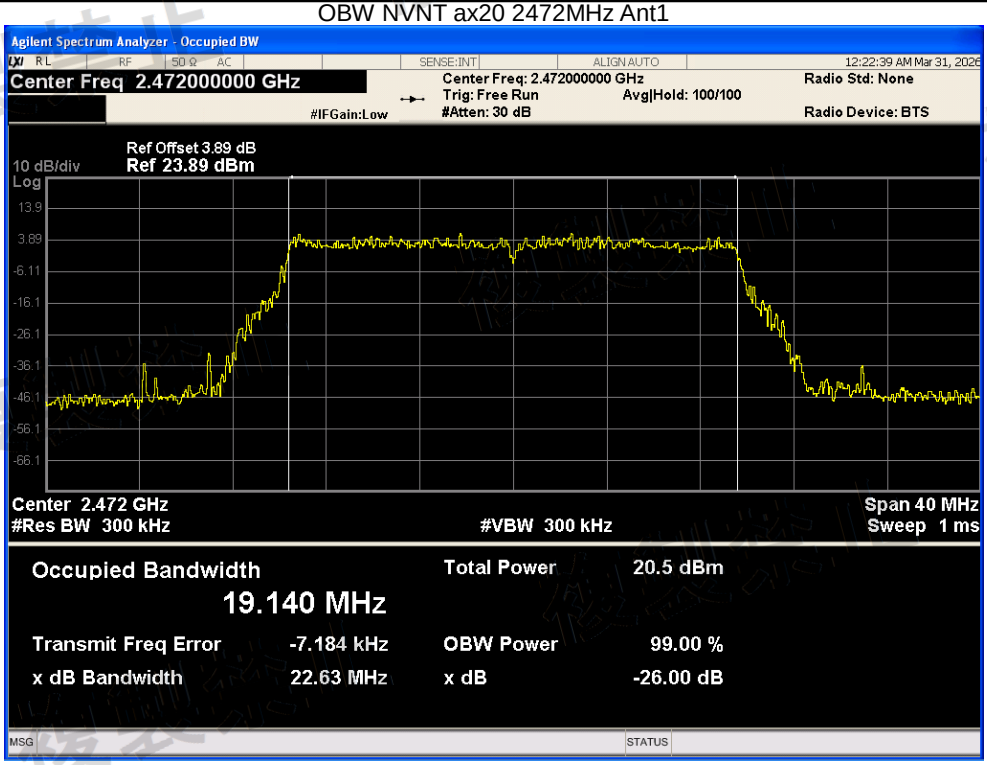


OBW NVNT ax20 2442MHz Ant1

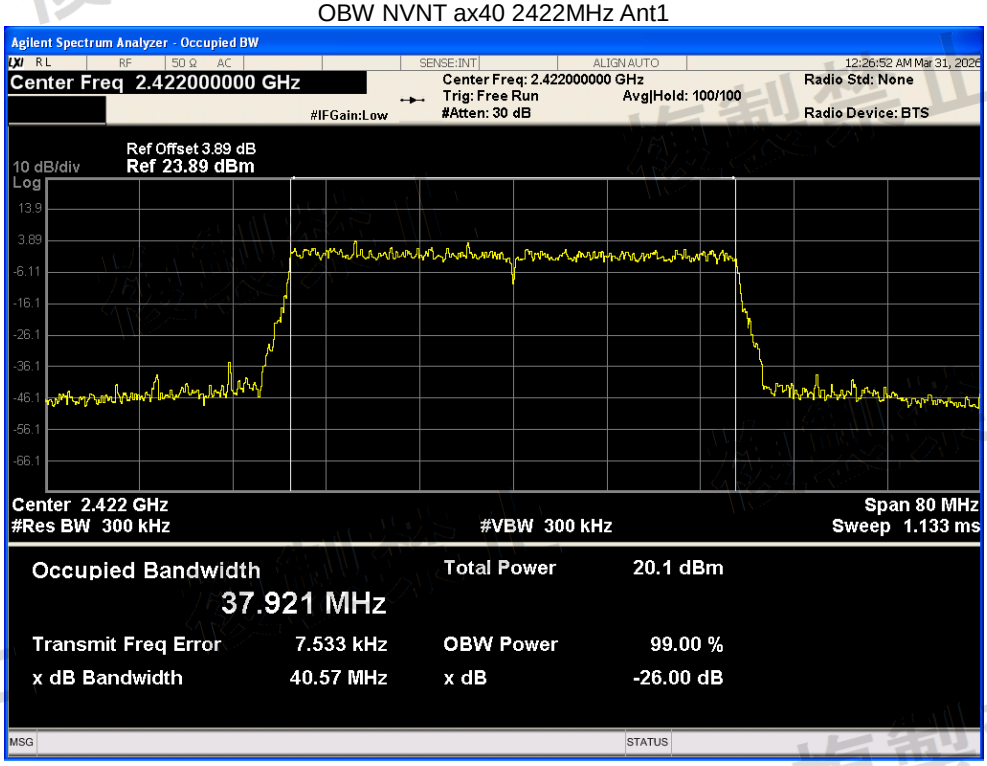


複製禁止

OBW NVNT ax20 2472MHz Ant1

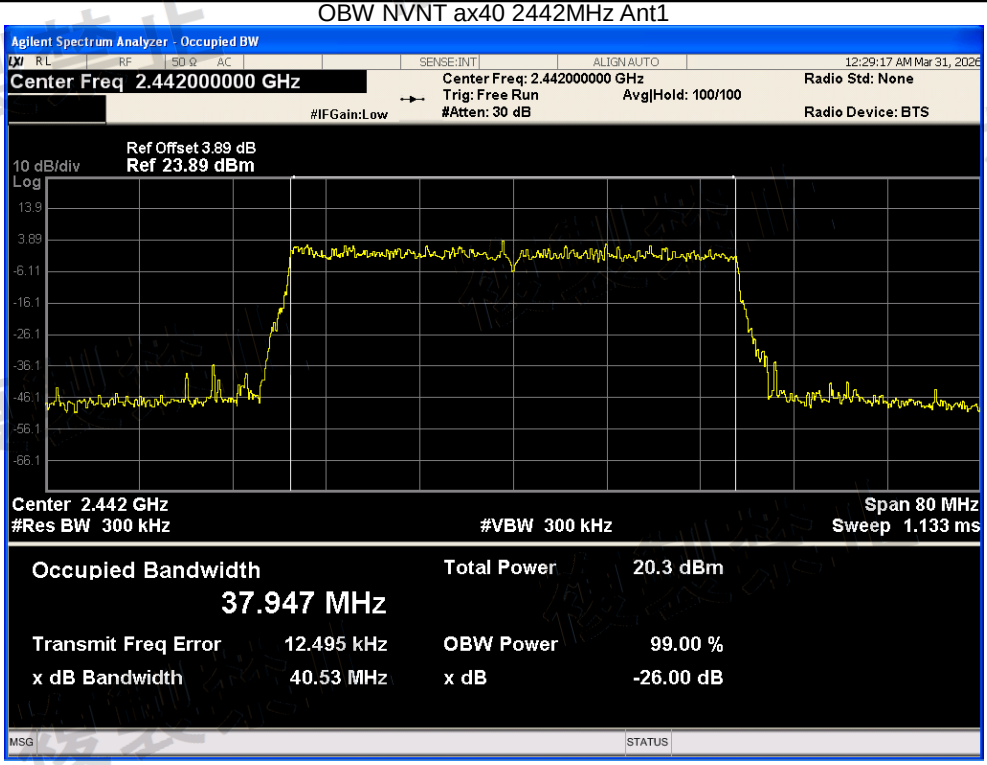


OBW NVNT ax40 2422MHz Ant1

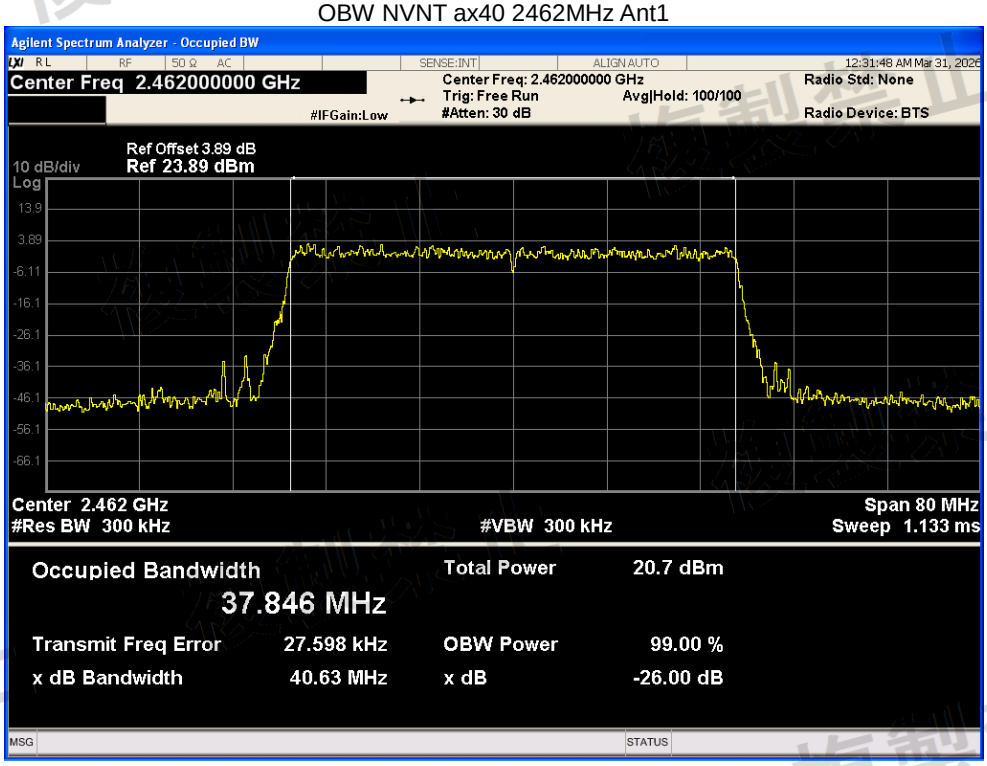


複製禁止

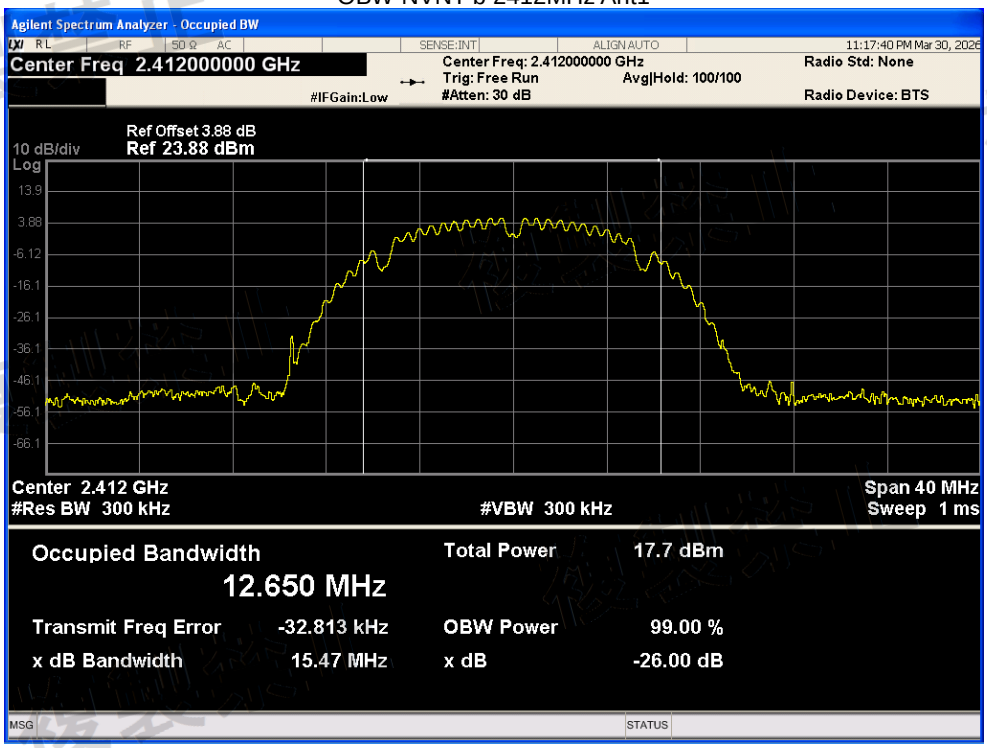
OBW NVNT ax40 2442MHz Ant1



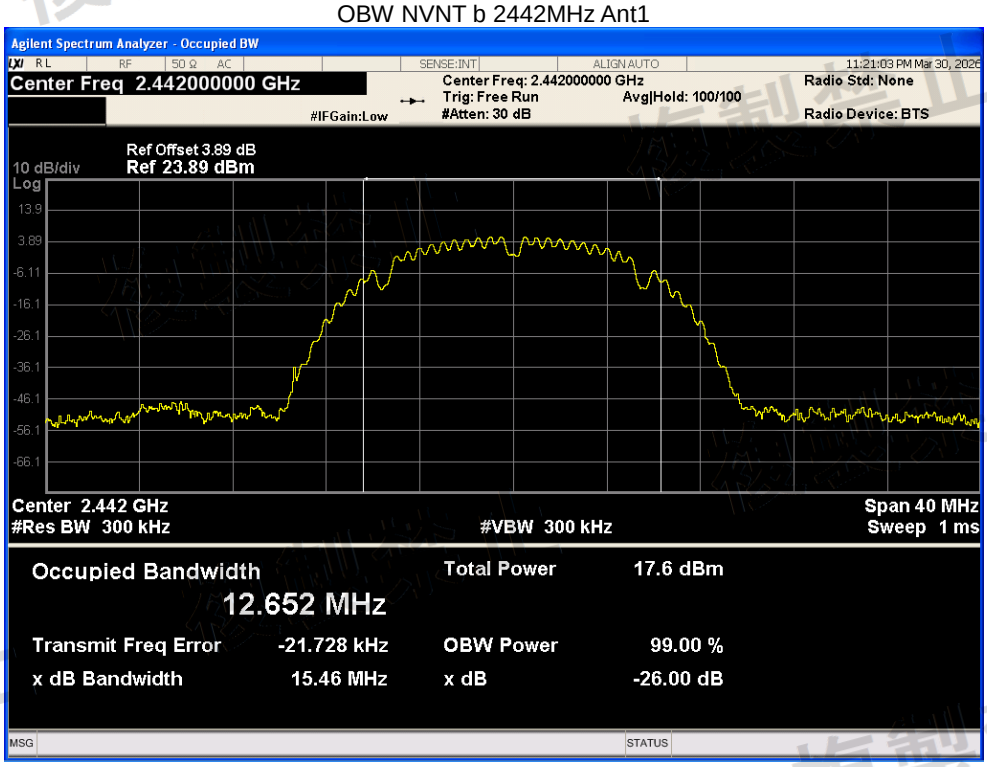
OBW NVNT ax40 2462MHz Ant1



OBW NVNT b 2412MHz Ant1

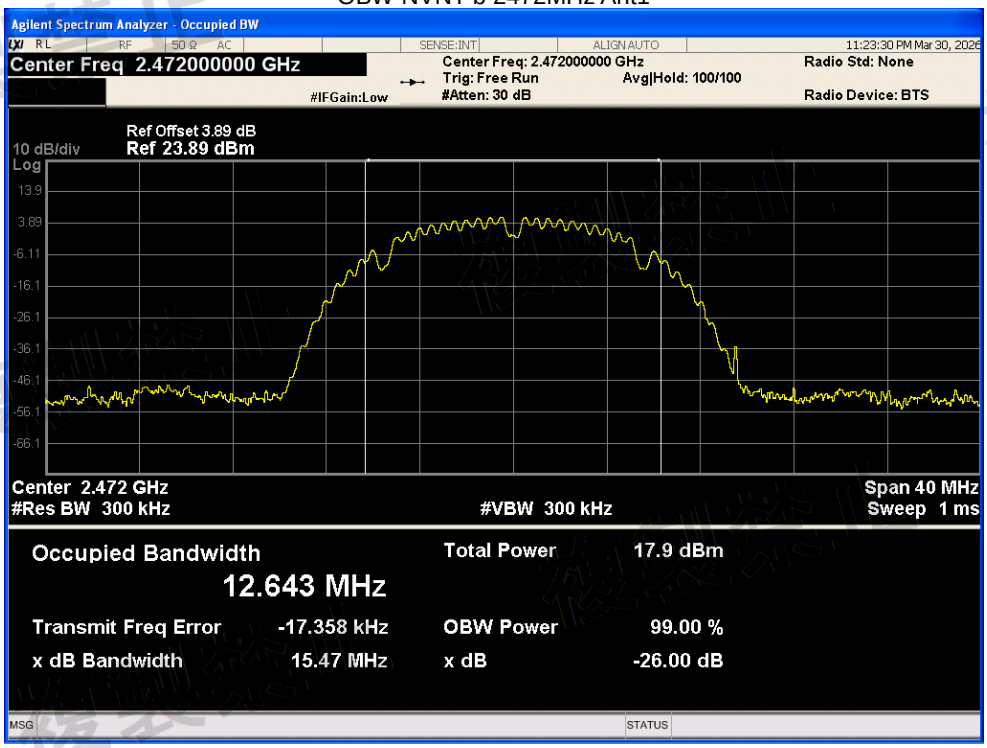


OBW NVNT b 2442MHz Ant1

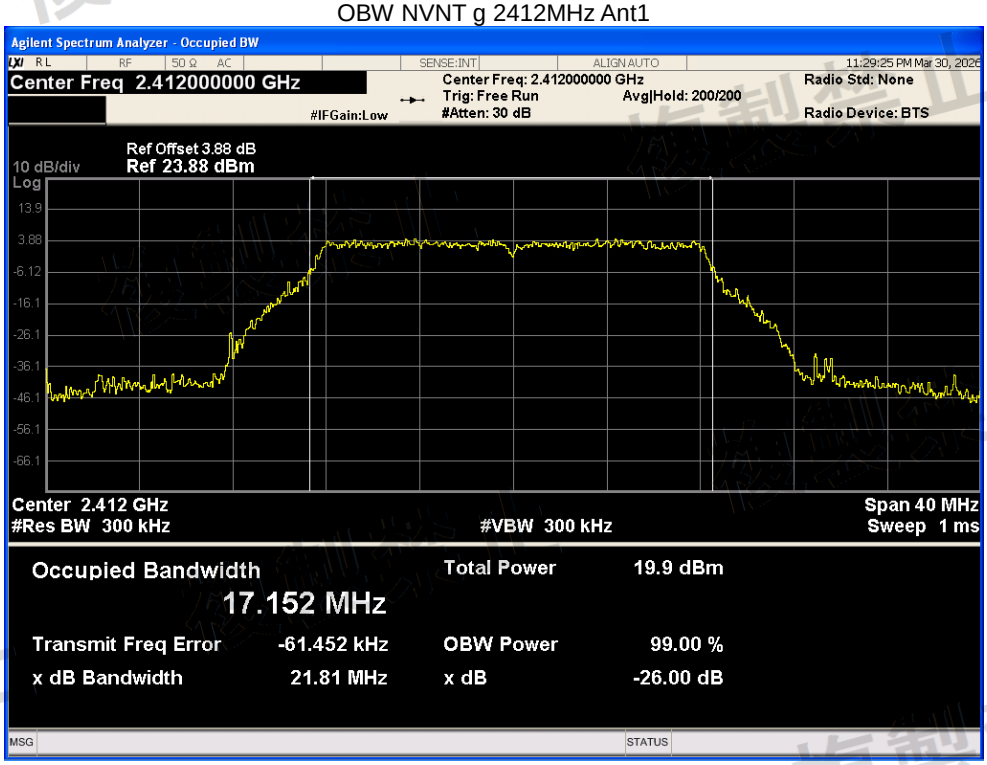


複製禁止

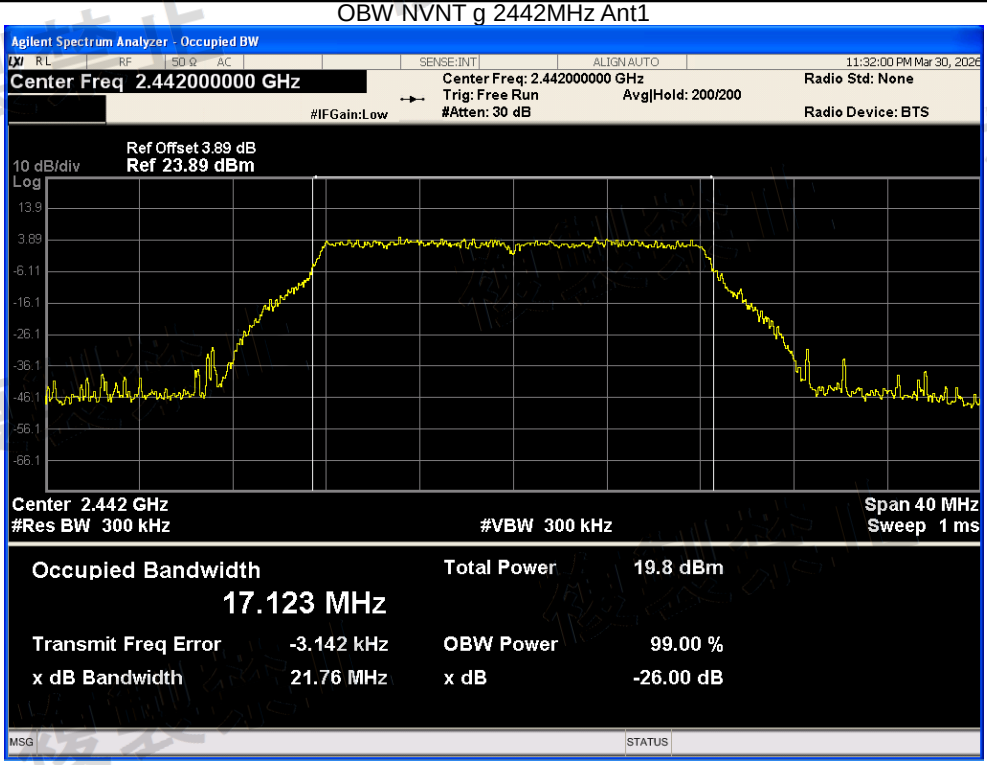
OBW NVNT b 2472MHz Ant1



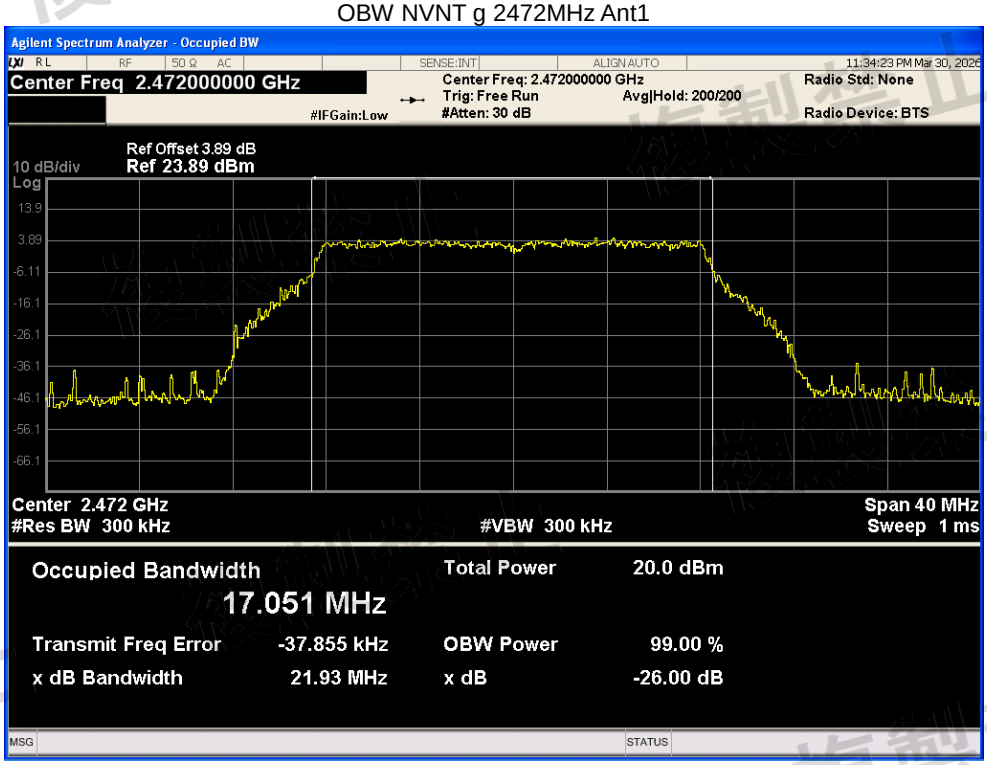
OBW NVNT g 2412MHz Ant1



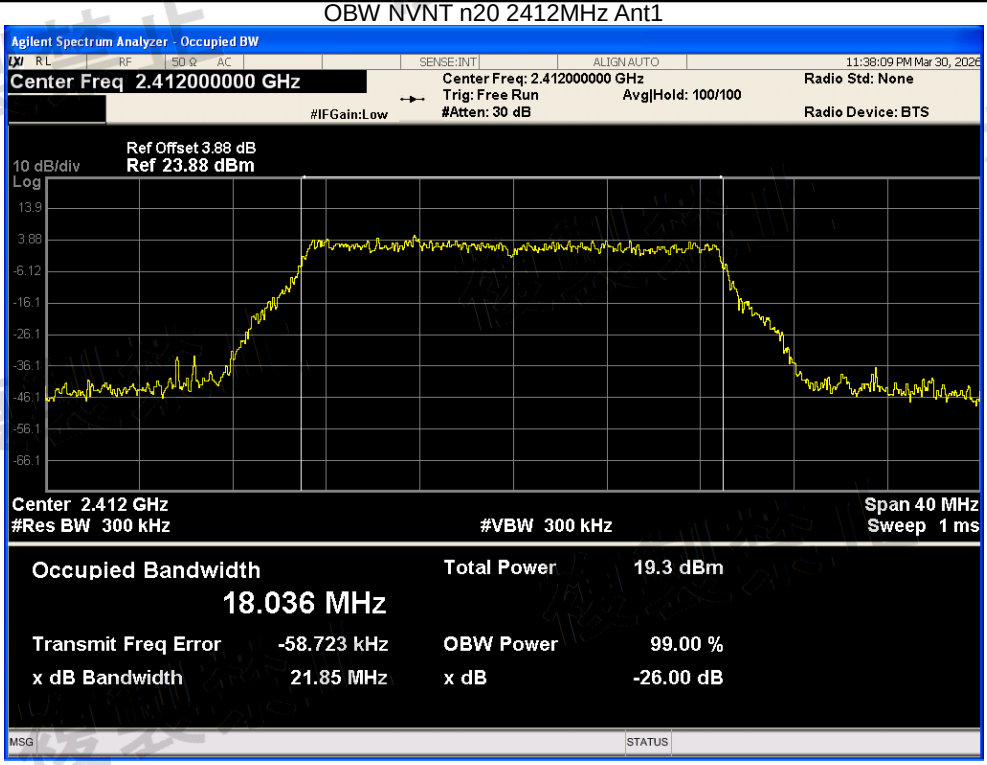
OBW NVNT g 2442MHz Ant1



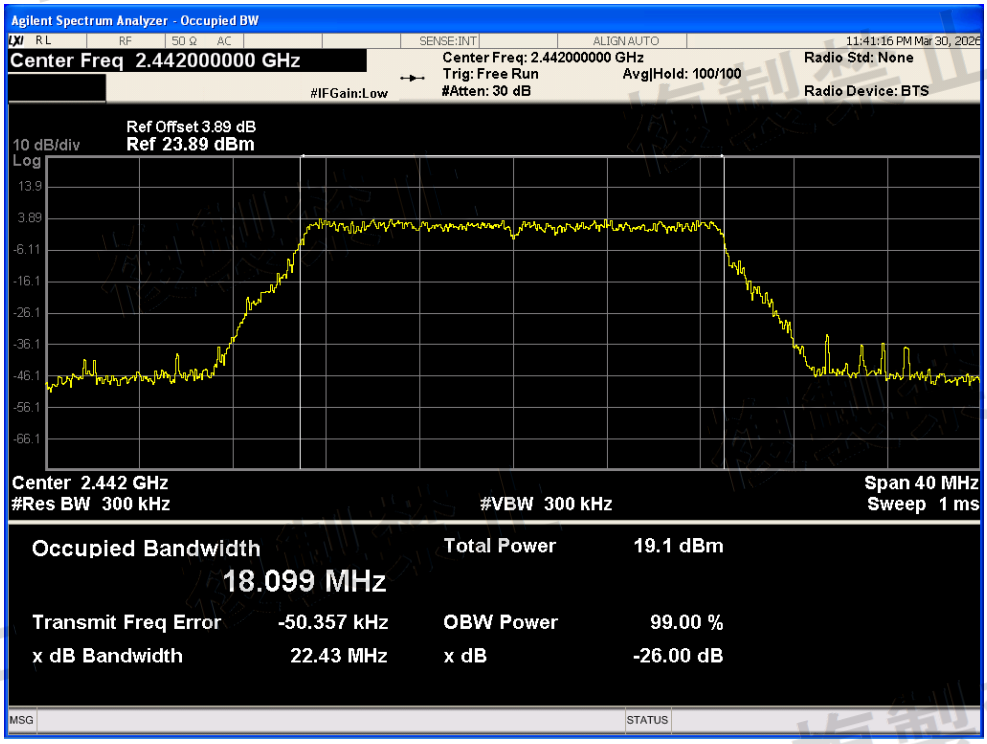
OBW NVNT g 2472MHz Ant1



OBW NVNT n20 2412MHz Ant1

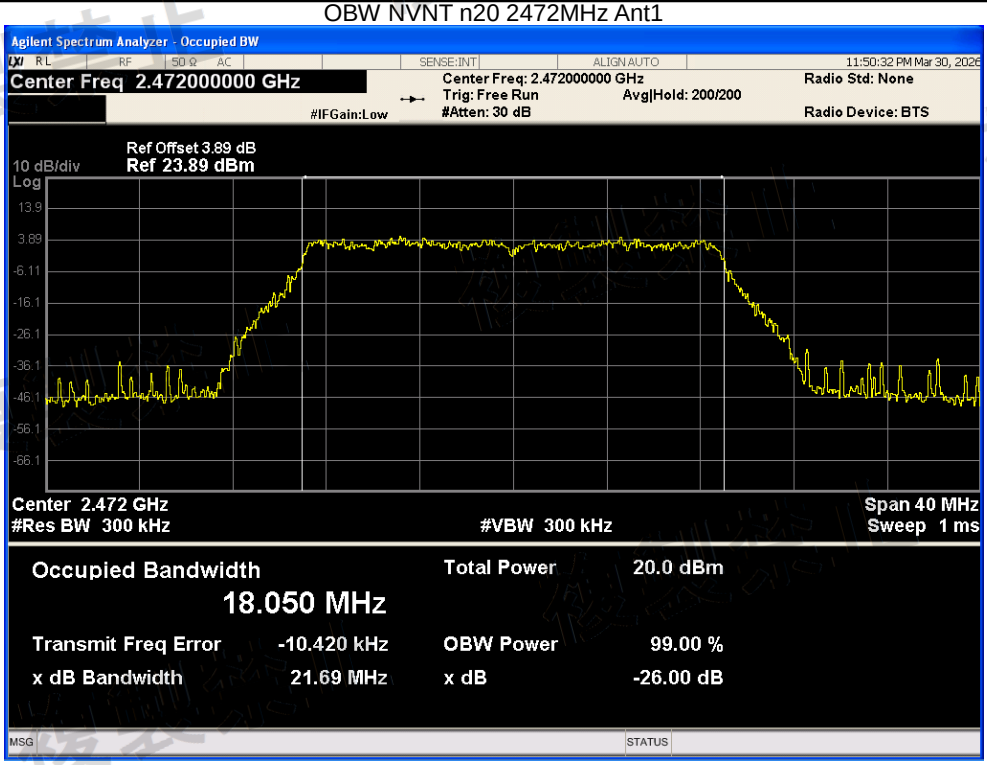


OBW NVNT n20 2442MHz Ant1

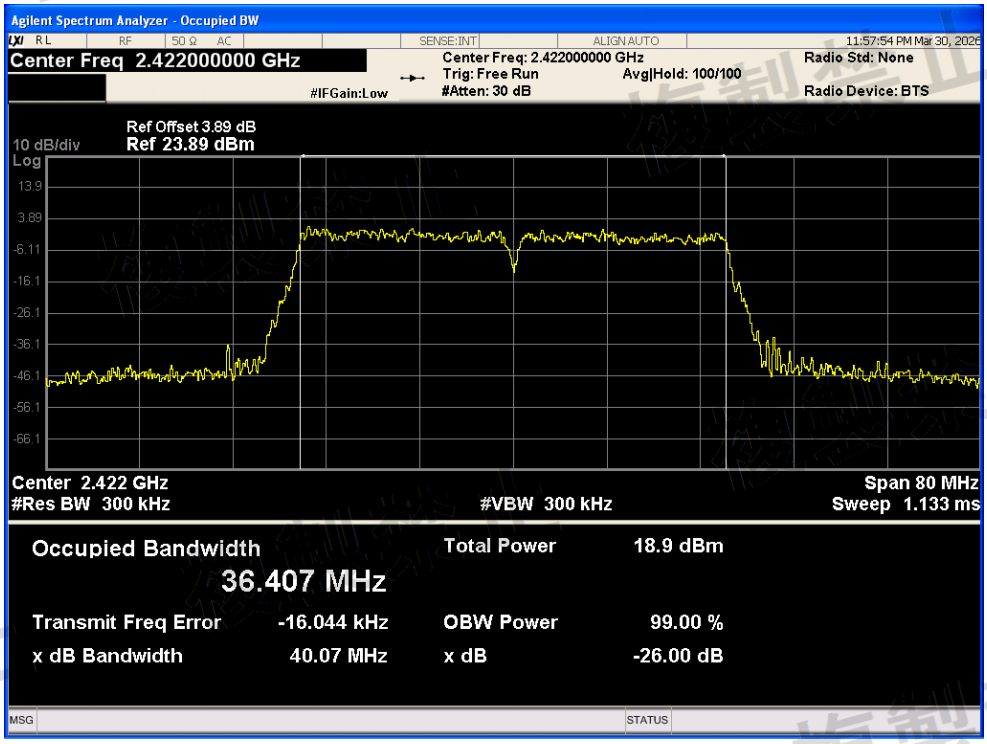


複製禁止

OBW NVNT n20 2472MHz Ant1

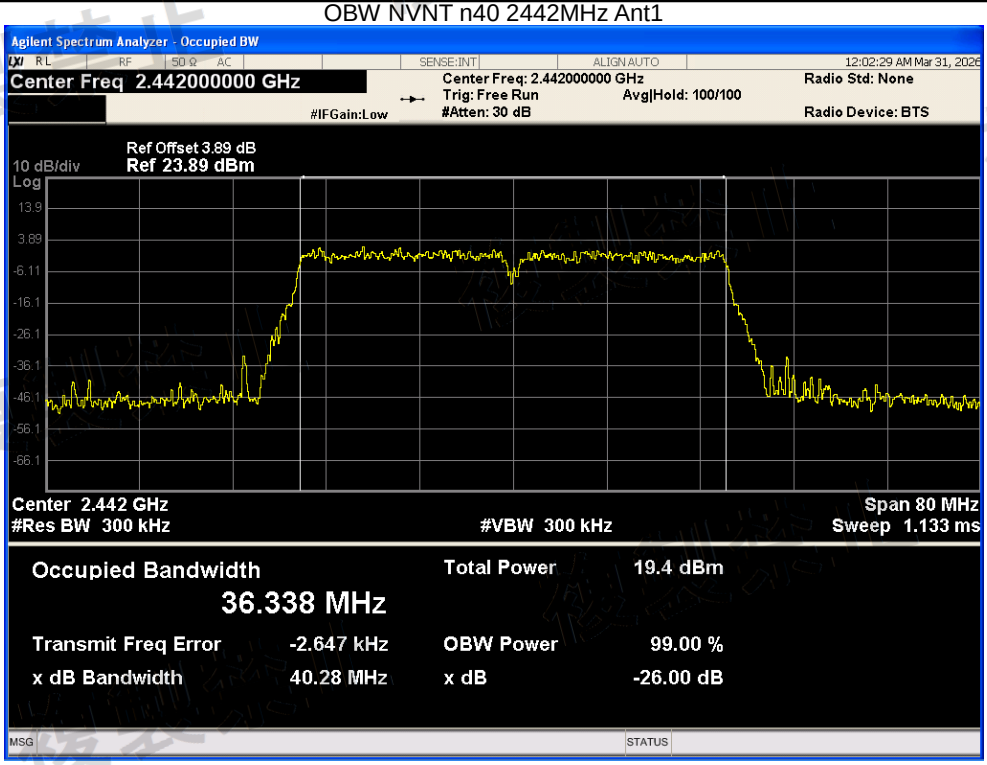


OBW NVNT n40 2422MHz Ant1

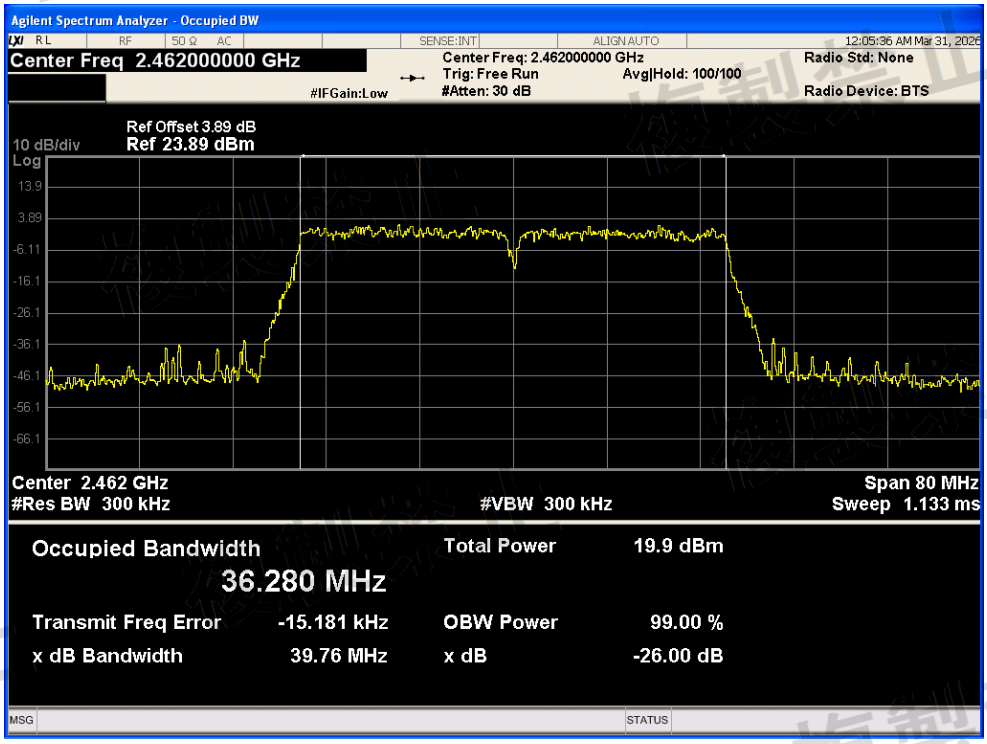


複製禁止

OBW NVNT n40 2442MHz Ant1



OBW NVNT n40 2462MHz Ant1



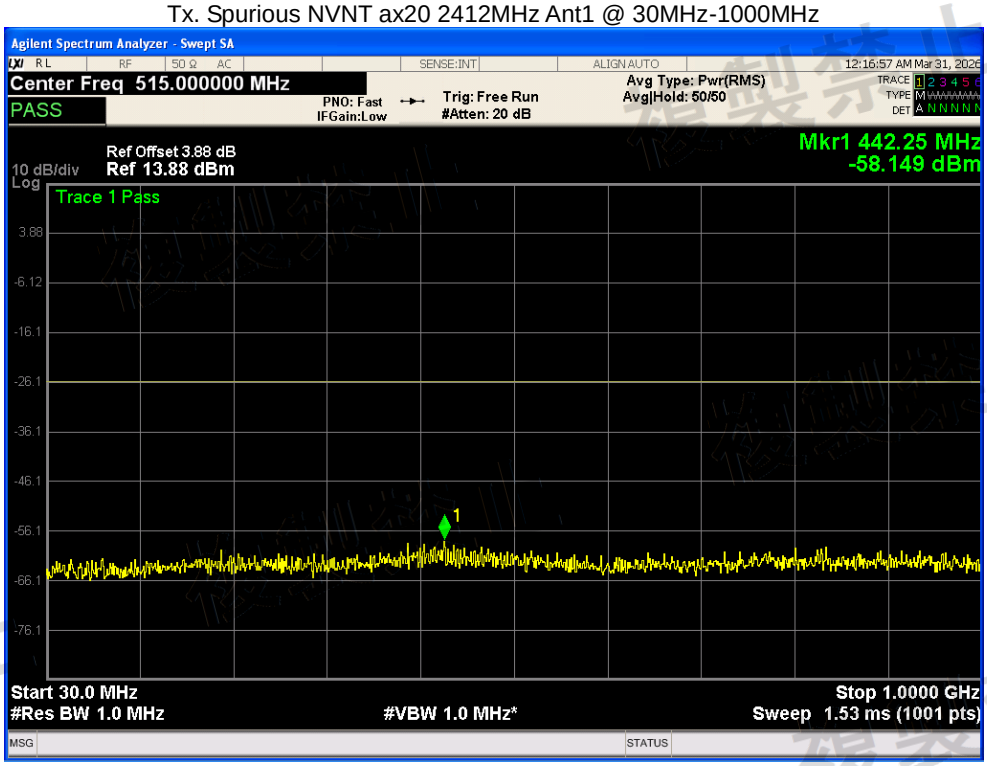
複製禁止

12.4 TX SPURIOUS EMISSION

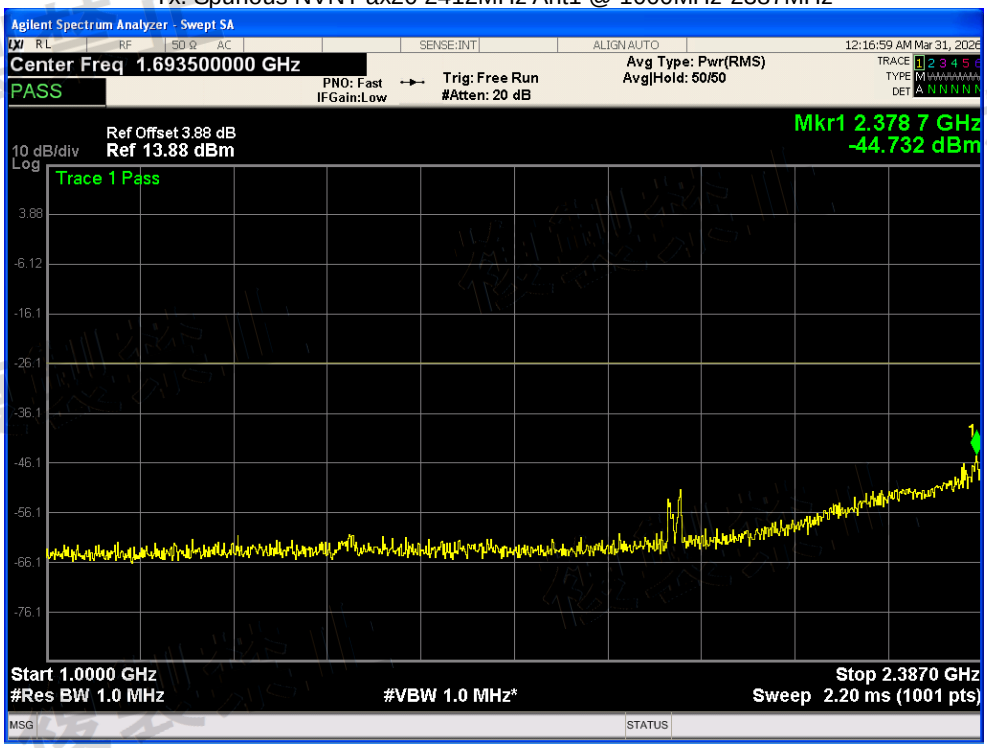
Condition	Mode	Frequency (MHz)	Antenna	Range (MHz)	Emission Frequency (MHz)	Max Value (dBm)	Max Value (uW)	Limit Start(uW)	Limit Stop (uW)	Verdict
NVNT	ax20	2412	Ant1	30-1000	442.25	-58.14	0.0015	2.5	2.5	Pass
NVNT	ax20	2412	Ant1	1000-2387	2378.68	-44.73	0.0337	2.5	2.5	Pass
NVNT	ax20	2412	Ant1	2387-2400	2399.9	-19.22	11.9674	25	25	Pass
NVNT	ax20	2412	Ant1	2483.5-2496.5	2490.69	-50.85	0.0082	25	25	Pass
NVNT	ax20	2412	Ant1	2496.5-13000	4828.28	-58.02	0.0016	2.5	2.5	Pass
NVNT	ax20	2442	Ant1	30-1000	411.21	-57.77	0.0017	2.5	2.5	Pass
NVNT	ax20	2442	Ant1	1000-2387	2375.9	-47.65	0.0172	2.5	2.5	Pass
NVNT	ax20	2442	Ant1	2387-2400	2399.67	-38.47	0.1422	25	25	Pass
NVNT	ax20	2442	Ant1	2483.5-2496.5	2484.71	-41.75	0.0668	25	25	Pass
NVNT	ax20	2442	Ant1	2496.5-13000	2496.5	-54.84	0.0033	2.5	2.5	Pass
NVNT	ax20	2472	Ant1	30-1000	442.25	-58.03	0.0016	2.5	2.5	Pass
NVNT	ax20	2472	Ant1	1000-2387	2000.03	-47.42	0.0181	2.5	2.5	Pass
NVNT	ax20	2472	Ant1	2387-2400	2393.44	-46.67	0.0215	25	25	Pass
NVNT	ax20	2472	Ant1	2483.5-2496.5	2483.55	-17.56	17.5388	25	25	Pass
NVNT	ax20	2472	Ant1	2496.5-13000	2496.5	-50.27	0.0094	2.5	2.5	Pass
NVNT	ax40	2422	Ant1	30-1000	470.38	-57.51	0.0018	2.5	2.5	Pass
NVNT	ax40	2422	Ant1	1000-2387	2382.84	-44.96	0.0319	2.5	2.5	Pass
NVNT	ax40	2422	Ant1	2387-2400	2392.9	-30.37	0.9183	25	25	Pass
NVNT	ax40	2422	Ant1	2483.5-2496.5	2484.67	-49.35	0.0116	25	25	Pass
NVNT	ax40	2422	Ant1	2496.5-13000	2496.5	-57.75	0.0017	2.5	2.5	Pass
NVNT	ax40	2442	Ant1	30-1000	418	-57.99	0.0016	2.5	2.5	Pass
NVNT	ax40	2442	Ant1	1000-2387	2384.23	-47.7	0.017	2.5	2.5	Pass
NVNT	ax40	2442	Ant1	2387-2400	2396.27	-40.72	0.0847	25	25	Pass
NVNT	ax40	2442	Ant1	2483.5-2496.5	2484.57	-43.16	0.0483	25	25	Pass
NVNT	ax40	2442	Ant1	2496.5-13000	2496.5	-54.65	0.0034	2.5	2.5	Pass
NVNT	ax40	2462	Ant1	30-1000	442.25	-57.03	0.002	2.5	2.5	Pass
NVNT	ax40	2462	Ant1	1000-2387	2375.9	-49.02	0.0125	2.5	2.5	Pass
NVNT	ax40	2462	Ant1	2387-2400	2394.77	-45.48	0.0283	25	25	Pass
NVNT	ax40	2462	Ant1	2483.5-2496.5	2483.66	-28.46	1.4256	25	25	Pass
NVNT	ax40	2462	Ant1	2496.5-13000	2496.5	-48.54	0.014	2.5	2.5	Pass
NVNT	b	2412	Ant1	30-1000	410.24	-58.08	0.0016	2.5	2.5	Pass
NVNT	b	2412	Ant1	1000-2387	2382.84	-52.18	0.0061	2.5	2.5	Pass
NVNT	b	2412	Ant1	2387-2400	2398.17	-45.14	0.0306	25	25	Pass
NVNT	b	2412	Ant1	2483.5-2496.5	2485.23	-55.34	0.0029	25	25	Pass
NVNT	b	2412	Ant1	2496.5-13000	3378.79	-57.19	0.0019	2.5	2.5	Pass
NVNT	b	2442	Ant1	30-1000	438.37	-57.35	0.0018	2.5	2.5	Pass
NVNT	b	2442	Ant1	1000-2387	2199.76	-54.49	0.0036	2.5	2.5	Pass
NVNT	b	2442	Ant1	2387-2400	2399.78	-51.4	0.0072	25	25	Pass
NVNT	b	2442	Ant1	2483.5-2496.5	2485.81	-53.86	0.0041	25	25	Pass
NVNT	b	2442	Ant1	2496.5-13000	3420.81	-56.58	0.0022	2.5	2.5	Pass
NVNT	b	2472	Ant1	30-1000	454.86	-57.56	0.0018	2.5	2.5	Pass
NVNT	b	2472	Ant1	1000-2387	2205.3	-53.98	0.004	2.5	2.5	Pass
NVNT	b	2472	Ant1	2387-2400	2399.9	-53.05	0.005	25	25	Pass
NVNT	b	2472	Ant1	2483.5-2496.5	2484.24	-39.62	0.1091	25	25	Pass
NVNT	b	2472	Ant1	2496.5-13000	3462.82	-54.87	0.0033	2.5	2.5	Pass
NVNT	g	2412	Ant1	30-1000	749.74	-48.28	0.0149	2.5	2.5	Pass
NVNT	g	2412	Ant1	1000-2387	2373.13	-44.94	0.0321	2.5	2.5	Pass
NVNT	g	2412	Ant1	2387-2400	2399.97	-21.83	6.5615	25	25	Pass
NVNT	g	2412	Ant1	2483.5-2496.5	2492.85	-46.29	0.0235	25	25	Pass
NVNT	g	2412	Ant1	2496.5-13000	12705.9	-51.35	0.0073	2.5	2.5	Pass
NVNT	g	2442	Ant1	30-1000	428.67	-57.59	0.0017	2.5	2.5	Pass
NVNT	g	2442	Ant1	1000-2387	2385.61	-46.94	0.0202	2.5	2.5	Pass
NVNT	g	2442	Ant1	2387-2400	2397.35	-38.49	0.1416	25	25	Pass
NVNT	g	2442	Ant1	2483.5-2496.5	2489.1	-42.75	0.0531	25	25	Pass
NVNT	g	2442	Ant1	2496.5-13000	2496.5	-55.4	0.0029	2.5	2.5	Pass
NVNT	g	2472	Ant1	30-1000	449.04	-57.22	0.0019	2.5	2.5	Pass
NVNT	g	2472	Ant1	1000-2387	1998.64	-48.63	0.0137	2.5	2.5	Pass
NVNT	g	2472	Ant1	2387-2400	2392.93	-46.03	0.0249	25	25	Pass
NVNT	g	2472	Ant1	2483.5-2496.5	2483.5	-17.74	16.8267	25	25	Pass
NVNT	g	2472	Ant1	2496.5-13000	2496.5	-47.79	0.0166	2.5	2.5	Pass
NVNT	n20	2412	Ant1	30-1000	737.13	-49.51	0.0112	2.5	2.5	Pass
NVNT	n20	2412	Ant1	1000-2387	2382.84	-39.13	0.1222	2.5	2.5	Pass
NVNT	n20	2412	Ant1	2387-2400	2399.97	-22.64	5.445	25	25	Pass

NVNT	n20	2412	Ant1	2483.5-2496.5	2493.68	-46.4	0.0229	25	25	Pass
NVNT	n20	2412	Ant1	2496.5-13000	12527.34	-50.89	0.0081	2.5	2.5	Pass
NVNT	n20	2442	Ant1	30-1000	917.55	-49.52	0.0112	2.5	2.5	Pass
NVNT	n20	2442	Ant1	1000-2387	2371.74	-46.3	0.0234	2.5	2.5	Pass
NVNT	n20	2442	Ant1	2387-2400	2394.01	-39.39	0.1151	25	25	Pass
NVNT	n20	2442	Ant1	2483.5-2496.5	2486.87	-40.78	0.0836	25	25	Pass
NVNT	n20	2442	Ant1	2496.5-13000	12621.87	-50.94	0.0081	2.5	2.5	Pass
NVNT	n20	2472	Ant1	30-1000	452.92	-57.02	0.002	2.5	2.5	Pass
NVNT	n20	2472	Ant1	1000-2387	2301.01	-47.81	0.0166	2.5	2.5	Pass
NVNT	n20	2472	Ant1	2387-2400	2396.33	-45.97	0.0253	25	25	Pass
NVNT	n20	2472	Ant1	2483.5-2496.5	2483.6	-18.28	14.8594	25	25	Pass
NVNT	n20	2472	Ant1	2496.5-13000	2496.5	-50.25	0.0094	2.5	2.5	Pass
NVNT	n40	2422	Ant1	30-1000	446.13	-57.09	0.002	2.5	2.5	Pass
NVNT	n40	2422	Ant1	1000-2387	2378.68	-44.56	0.035	2.5	2.5	Pass
NVNT	n40	2422	Ant1	2387-2400	2399.83	-24.19	3.8107	25	25	Pass
NVNT	n40	2422	Ant1	2483.5-2496.5	2486.06	-46.84	0.0207	25	25	Pass
NVNT	n40	2422	Ant1	2496.5-13000	2496.5	-56.97	0.002	2.5	2.5	Pass
NVNT	n40	2442	Ant1	30-1000	470.38	-56.79	0.0021	2.5	2.5	Pass
NVNT	n40	2442	Ant1	1000-2387	2377.29	-46.82	0.0208	2.5	2.5	Pass
NVNT	n40	2442	Ant1	2387-2400	2396.19	-39.64	0.1086	25	25	Pass
NVNT	n40	2442	Ant1	2483.5-2496.5	2485.33	-41.12	0.0773	25	25	Pass
NVNT	n40	2442	Ant1	2496.5-13000	2496.5	-54.36	0.0037	2.5	2.5	Pass
NVNT	n40	2462	Ant1	30-1000	463.59	-57.21	0.0019	2.5	2.5	Pass
NVNT	n40	2462	Ant1	1000-2387	2370.36	-47.09	0.0195	2.5	2.5	Pass
NVNT	n40	2462	Ant1	2387-2400	2399.27	-43.03	0.0498	25	25	Pass
NVNT	n40	2462	Ant1	2483.5-2496.5	2485.37	-27.05	1.9724	25	25	Pass
NVNT	n40	2462	Ant1	2496.5-13000	2496.5	-48.38	0.0145	2.5	2.5	Pass

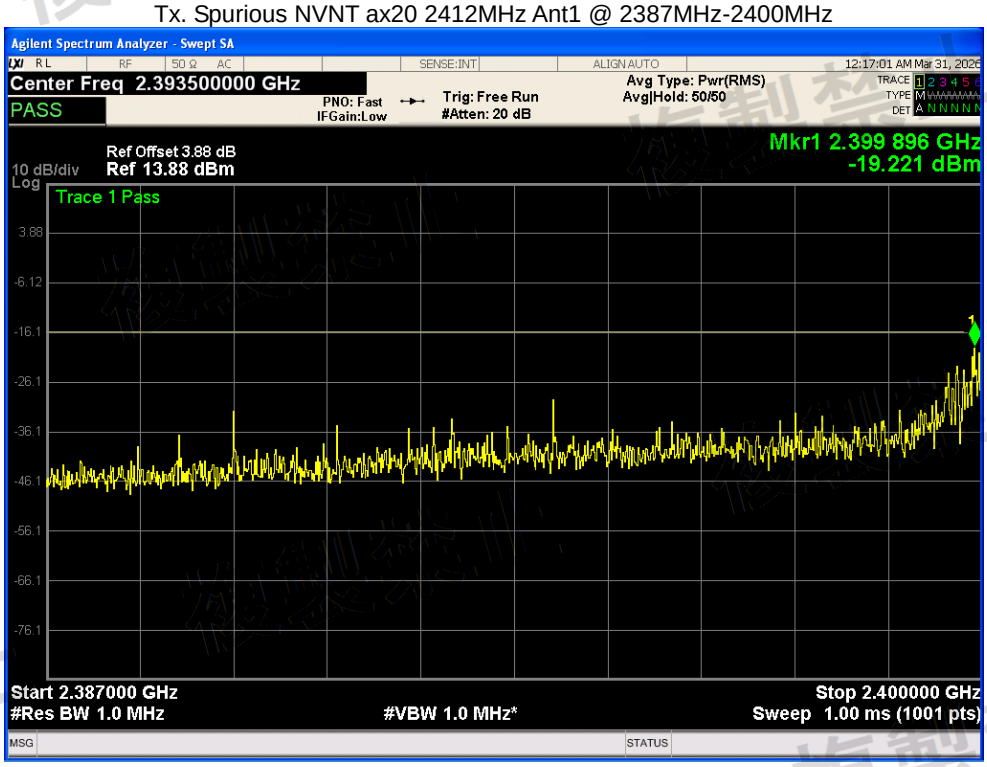
Tx. Spurious NVNT ax20 2412MHz Ant1 @ 30MHz-1000MHz



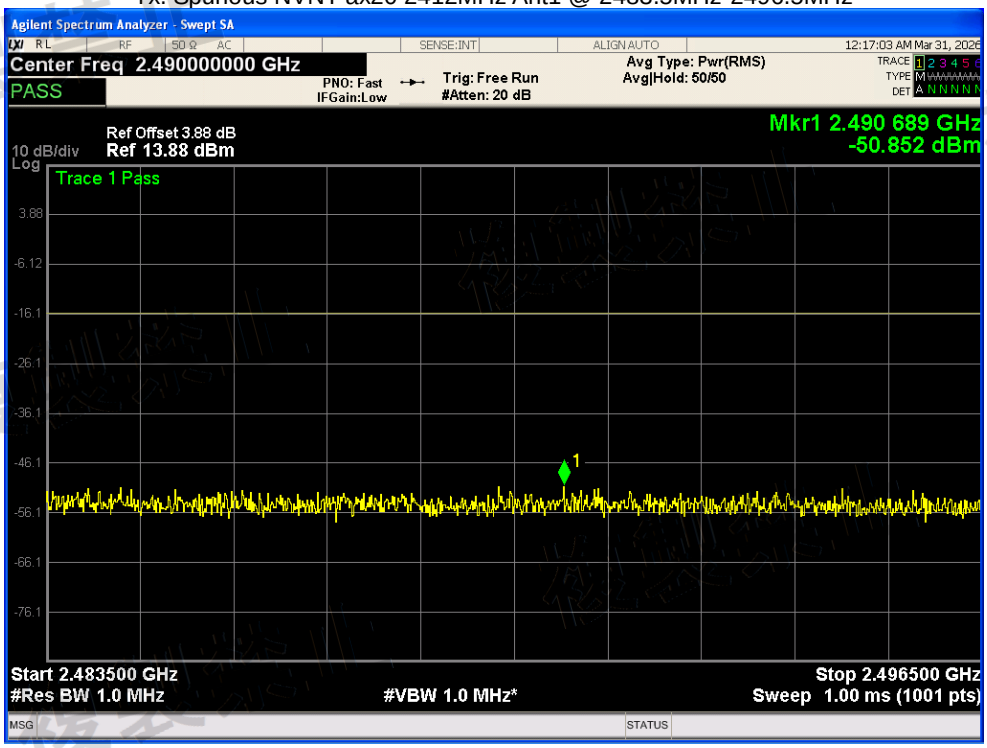
Tx. Spurious NVNT ax20 2412MHz Ant1 @ 1000MHz-2387MHz



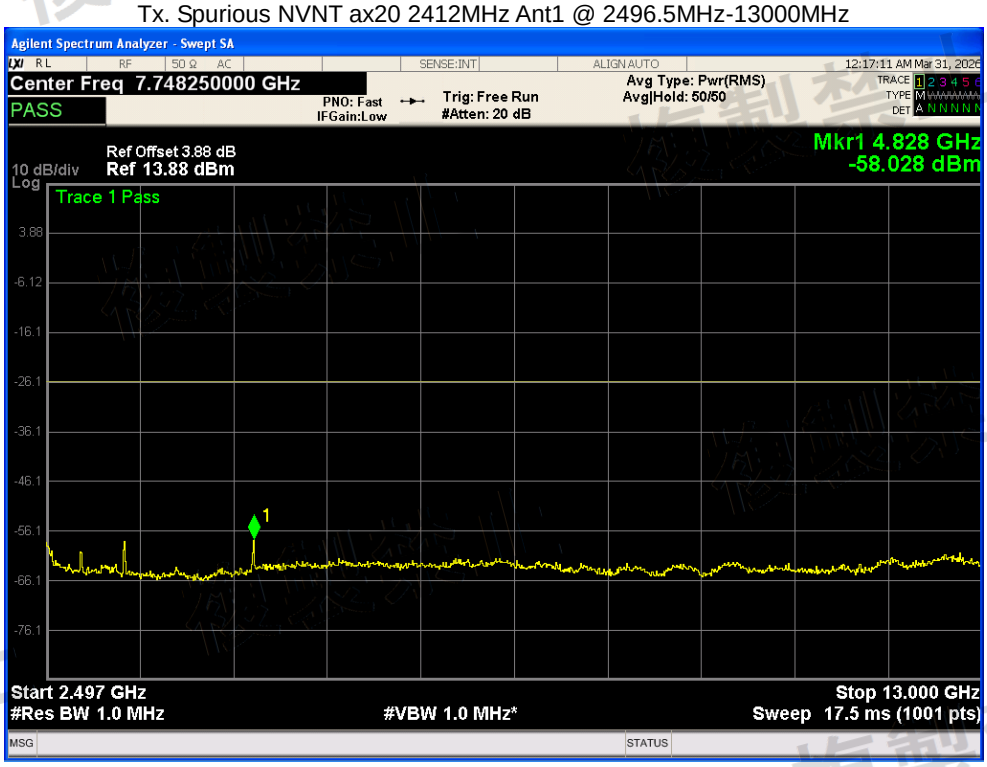
Tx. Spurious NVNT ax20 2412MHz Ant1 @ 2387MHz-2400MHz



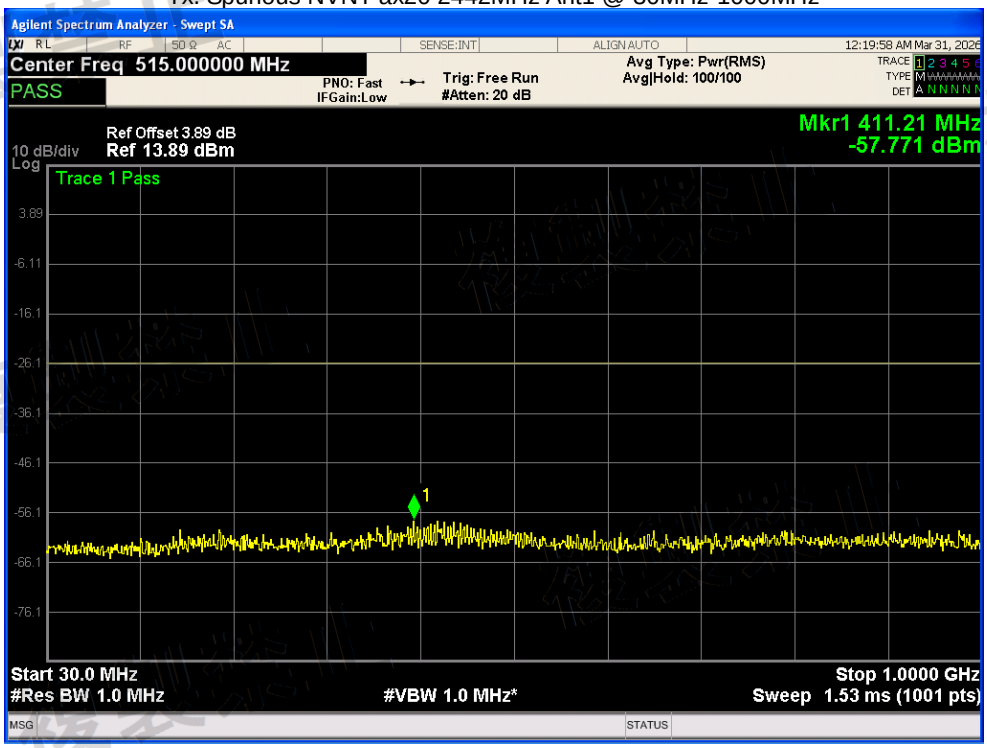
Tx. Spurious NVNT ax20 2412MHz Ant1 @ 2483.5MHz-2496.5MHz



Tx. Spurious NVNT ax20 2412MHz Ant1 @ 2496.5MHz-13000MHz

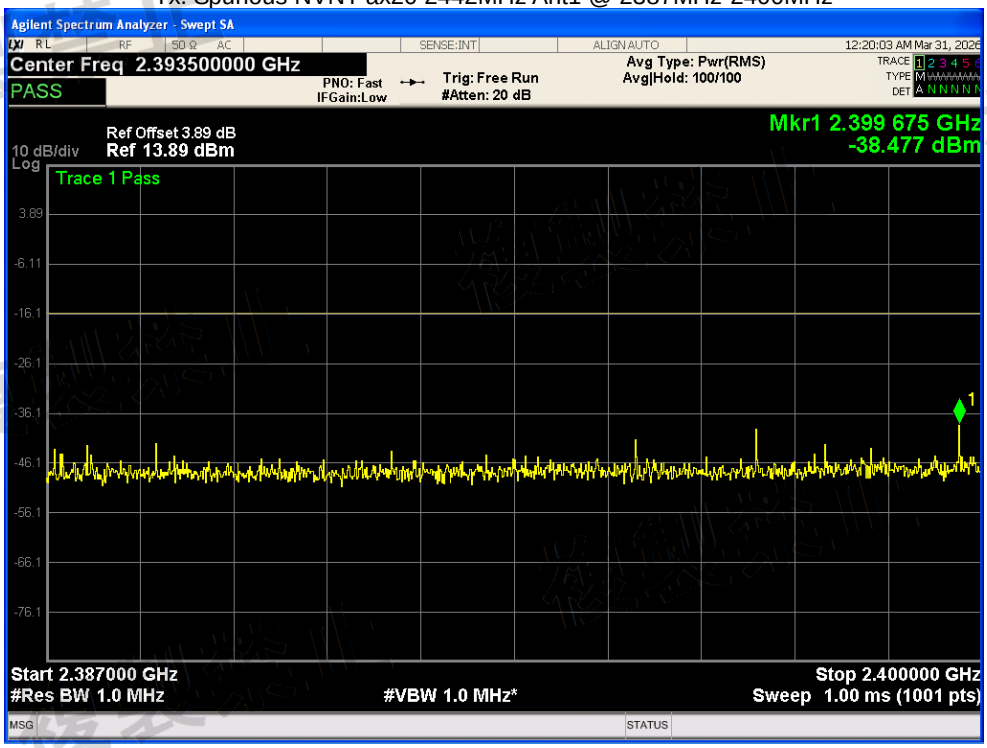


Tx. Spurious NVNT ax20 2442MHz Ant1 @ 30MHz-1000MHz

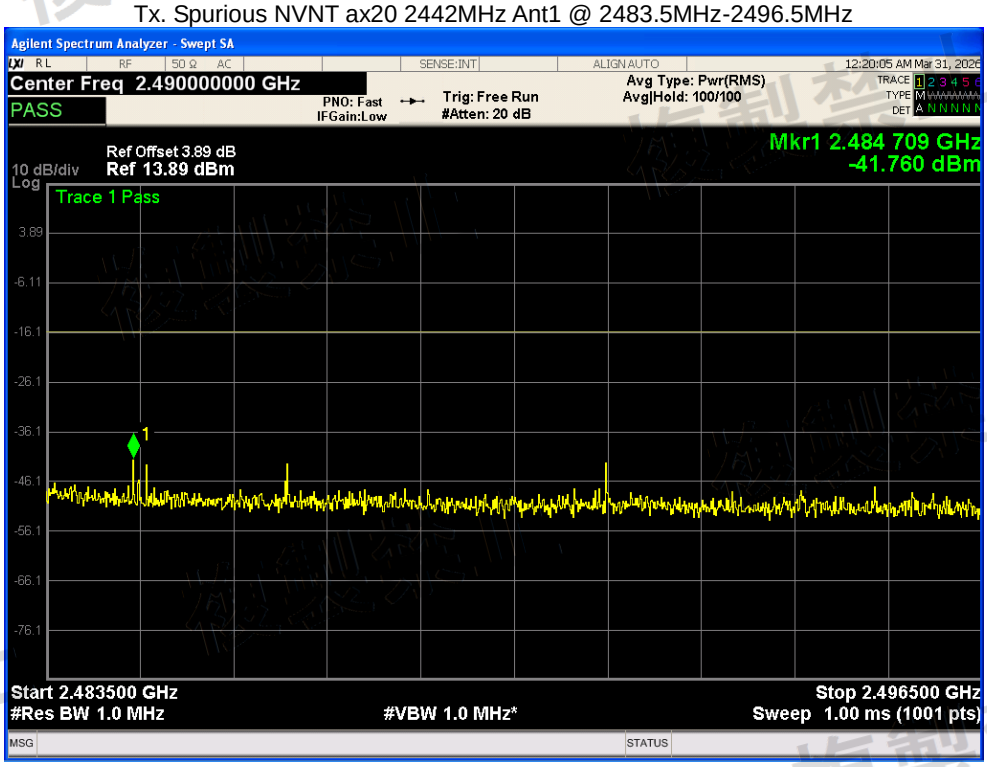


Tx. Spurious NVNT ax20 2442MHz Ant1 @ 1000MHz-2387MHz

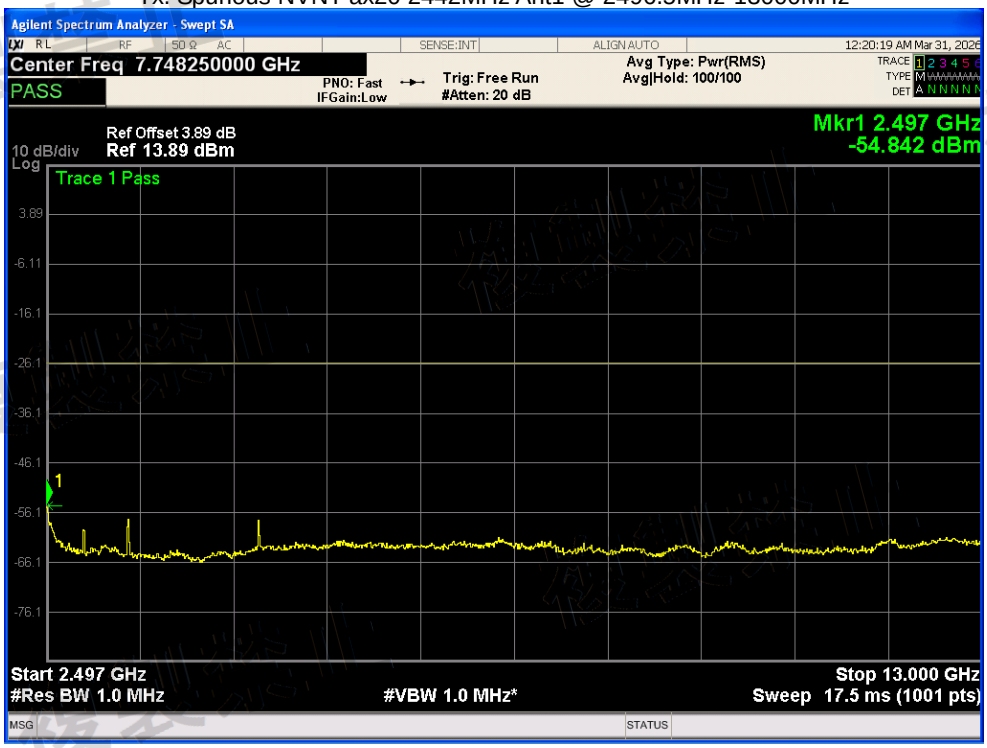
Tx. Spurious NVNT ax20 2442MHz Ant1 @ 2387MHz-2400MHz



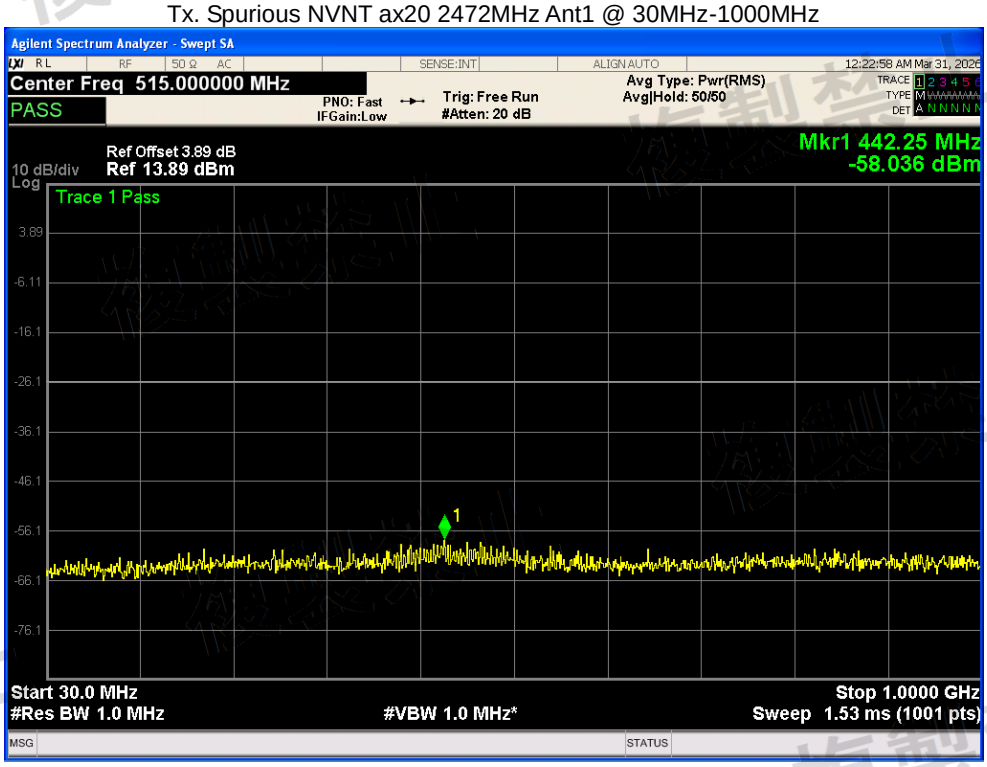
Tx. Spurious NVNT ax20 2442MHz Ant1 @ 2483.5MHz-2496.5MHz



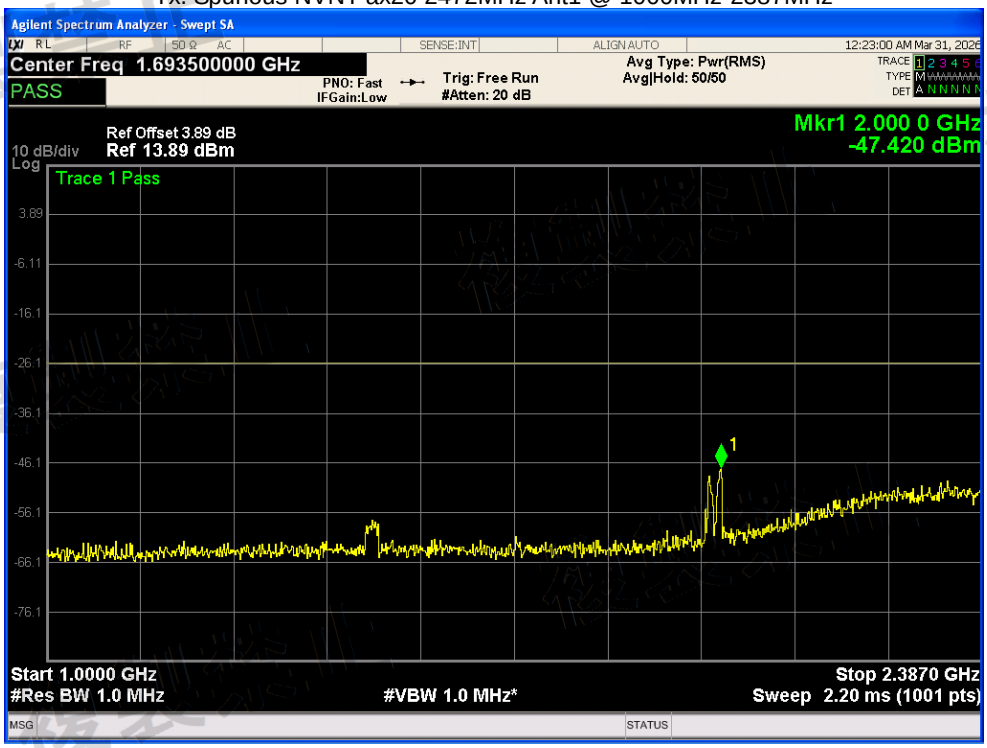
Tx. Spurious NVNT ax20 2442MHz Ant1 @ 2496.5MHz-13000MHz



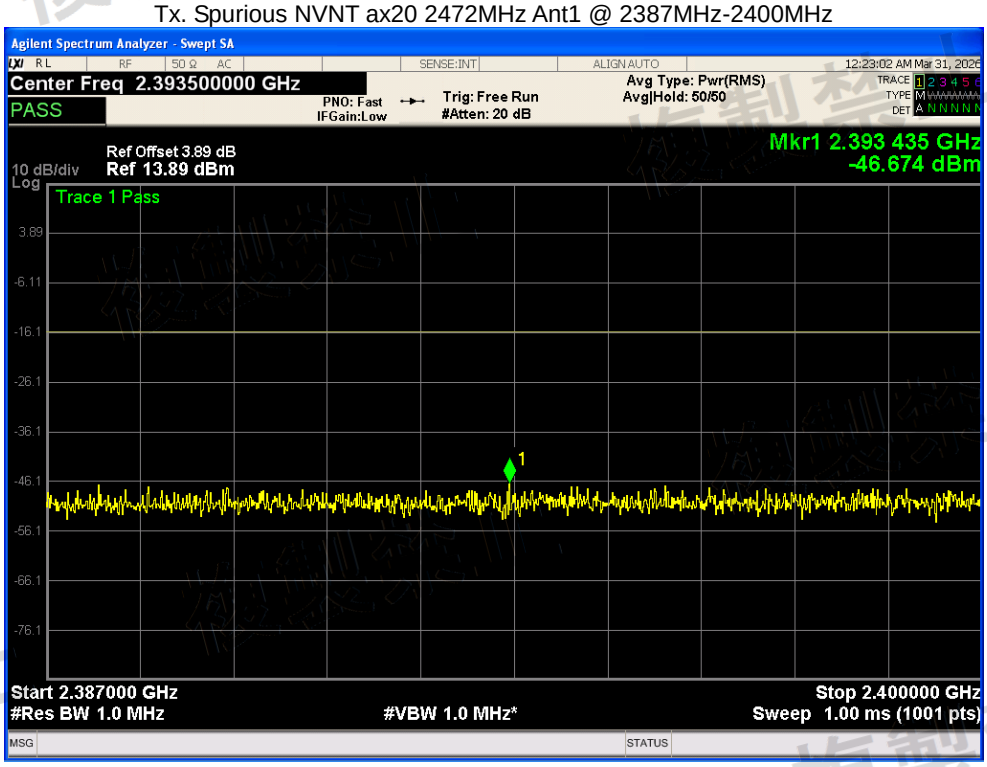
Tx. Spurious NVNT ax20 2472MHz Ant1 @ 30MHz-1000MHz



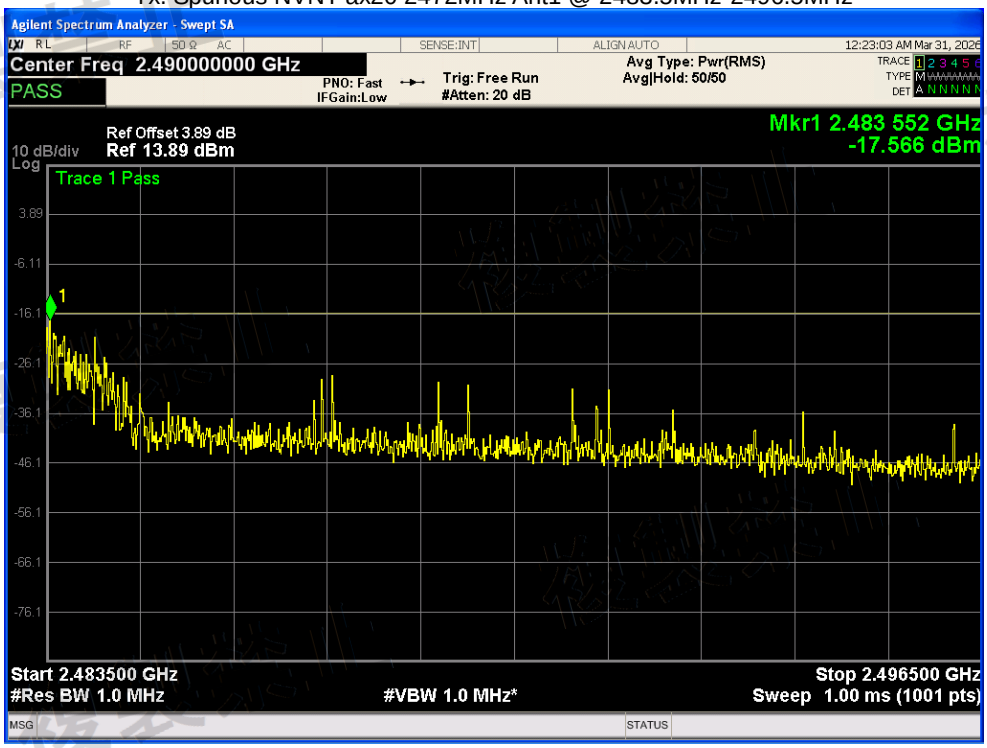
Tx. Spurious NVNT ax20 2472MHz Ant1 @ 1000MHz-2387MHz



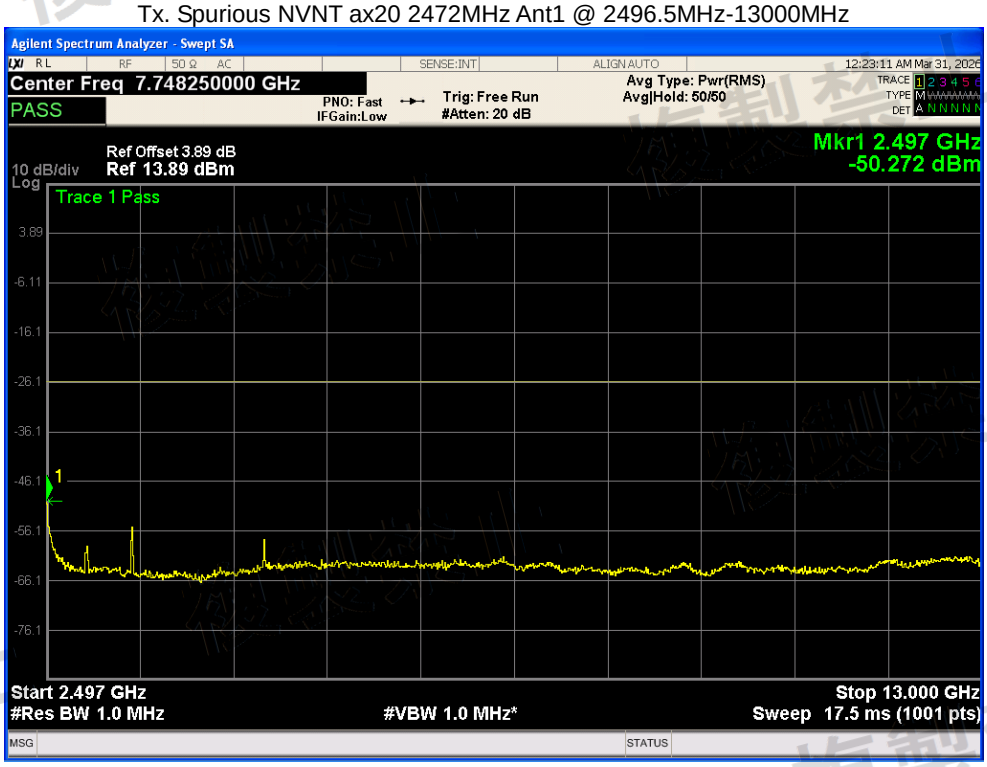
Tx. Spurious NVNT ax20 2472MHz Ant1 @ 2387MHz-2400MHz



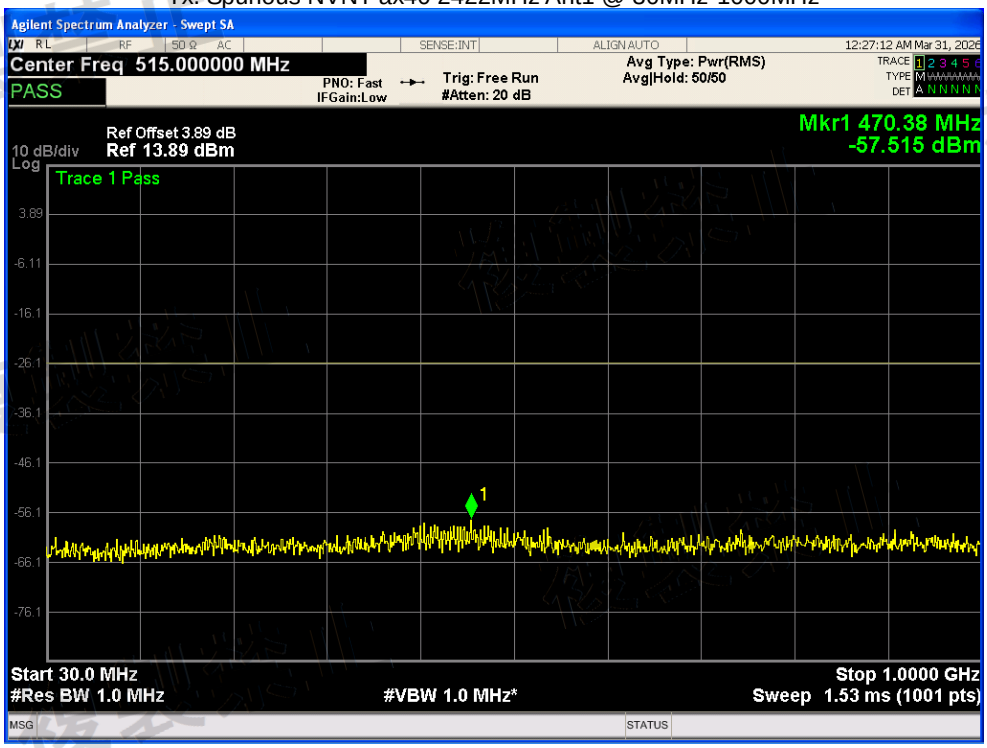
Tx. Spurious NVNT ax20 2472MHz Ant1 @ 2483.5MHz-2496.5MHz



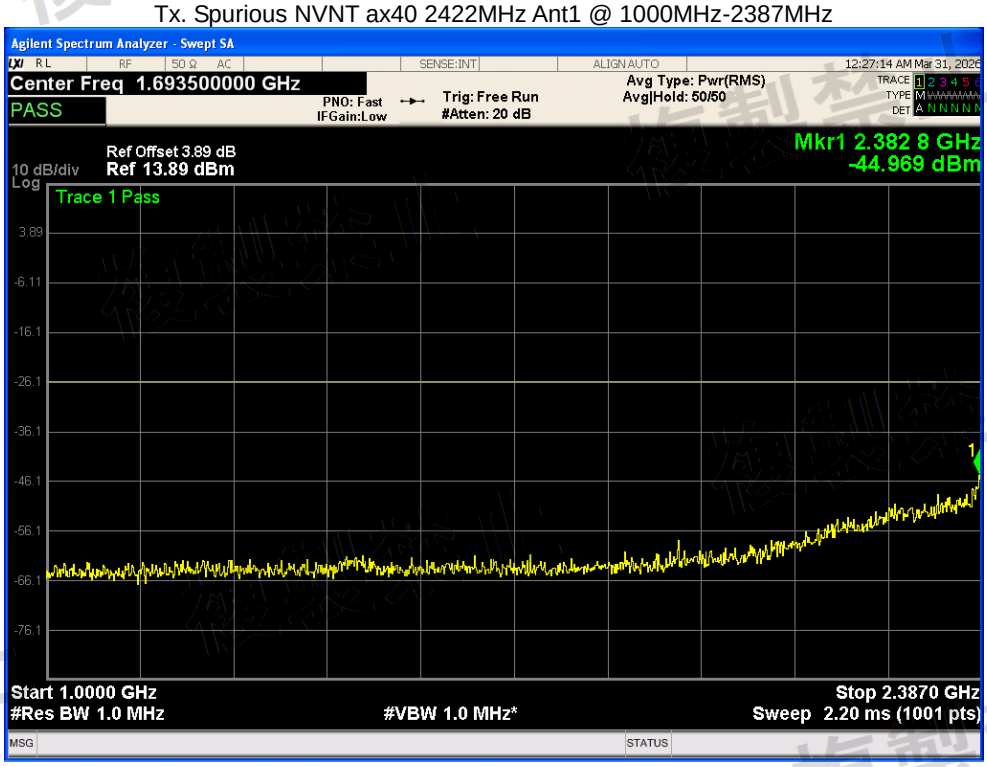
Tx. Spurious NVNT ax20 2472MHz Ant1 @ 2496.5MHz-13000MHz



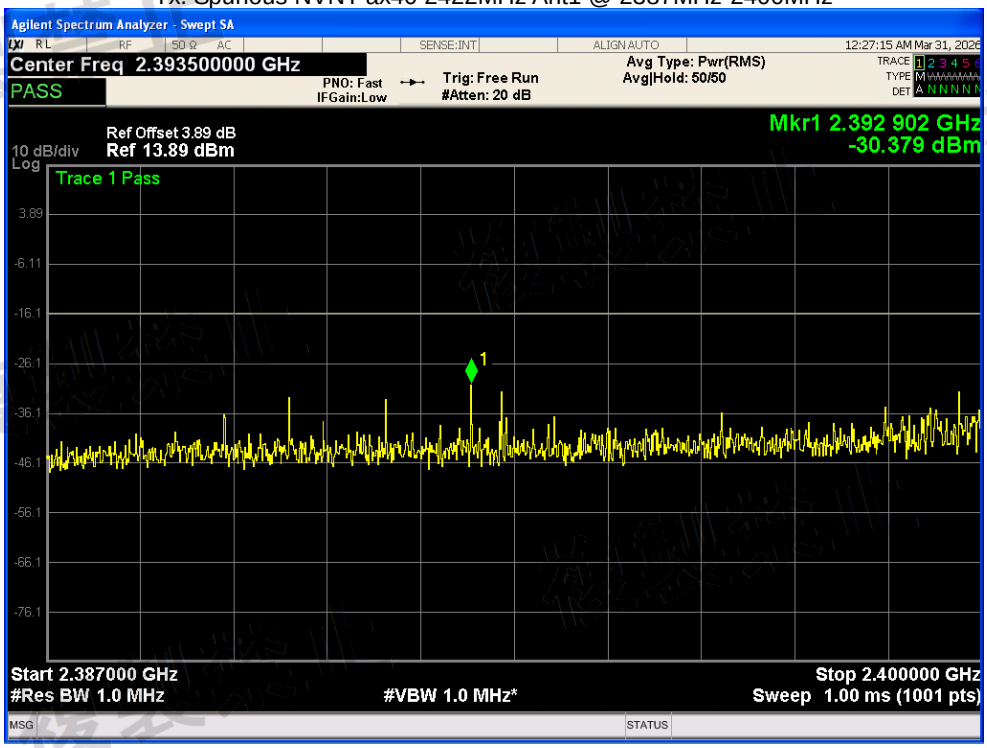
Tx. Spurious NVNT ax40 2422MHz Ant1 @ 30MHz-1000MHz



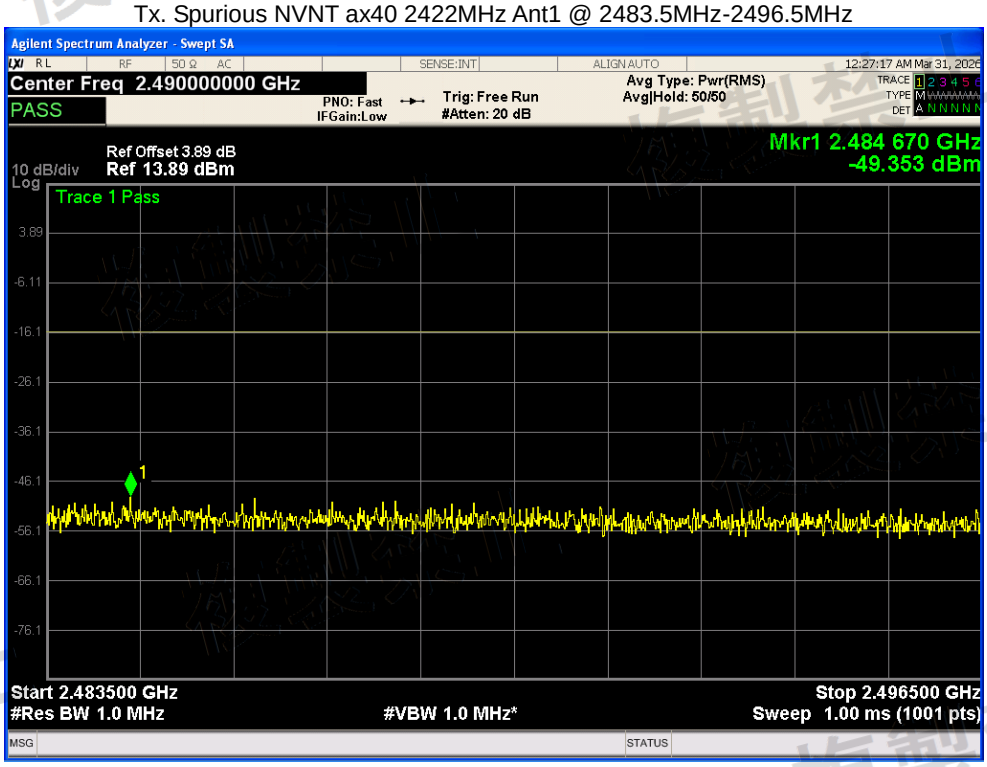
Tx. Spurious NVNT ax40 2422MHz Ant1 @ 1000MHz-2387MHz



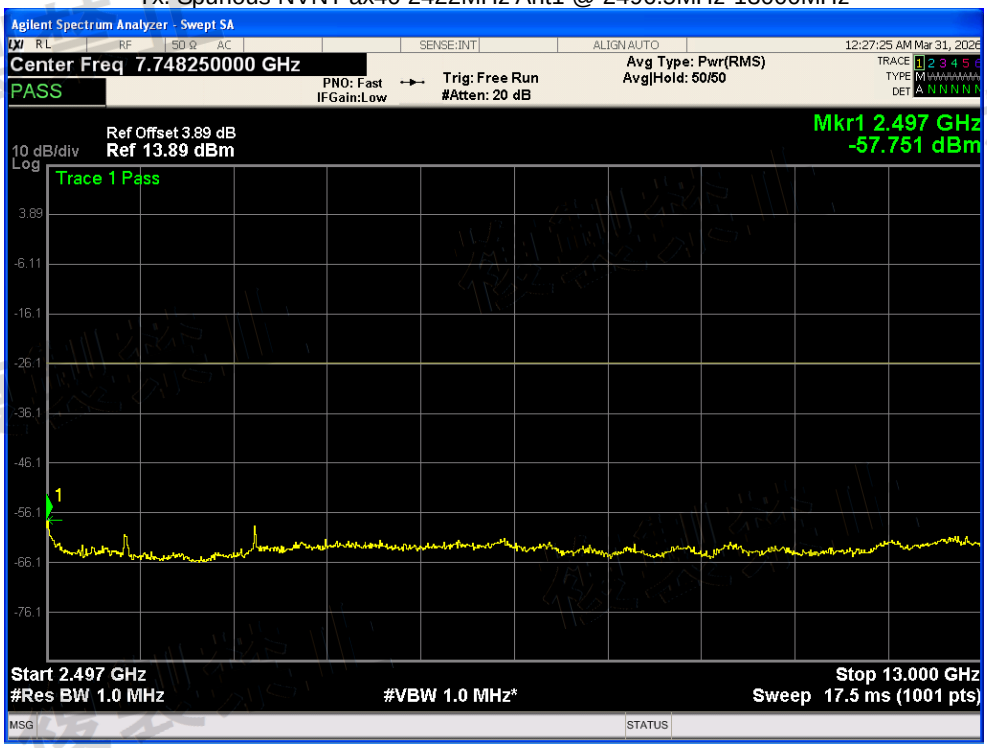
Tx. Spurious NVNT ax40 2422MHz Ant1 @ 2387MHz-2400MHz



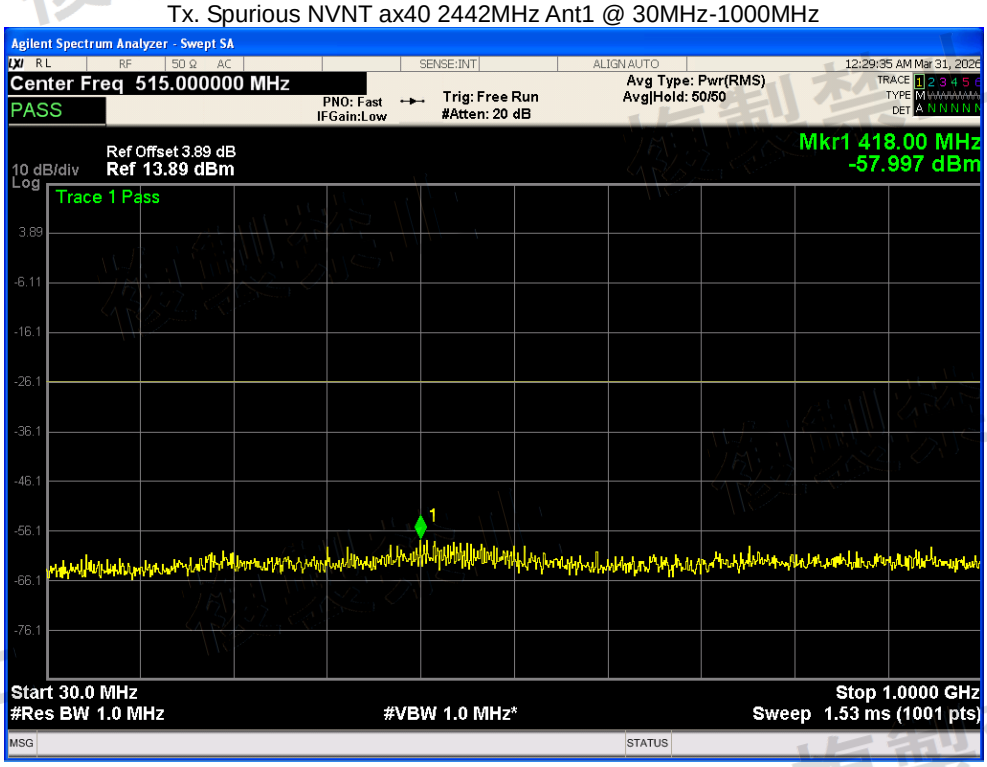
Tx. Spurious NVNT ax40 2422MHz Ant1 @ 2483.5MHz-2496.5MHz



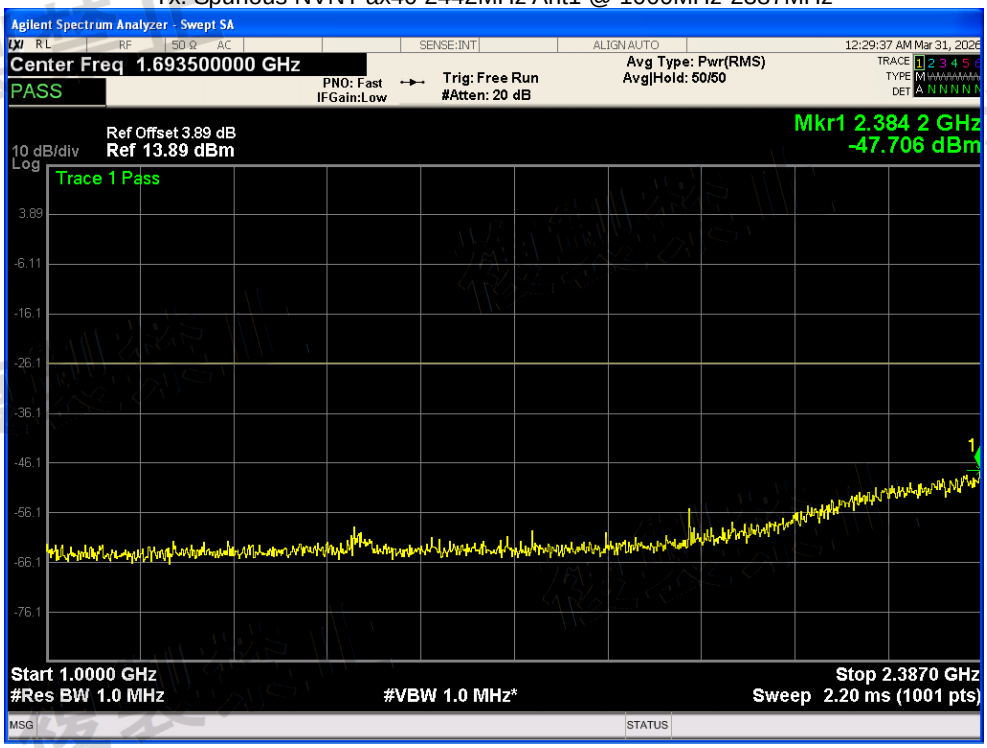
Tx. Spurious NVNT ax40 2422MHz Ant1 @ 2496.5MHz-13000MHz



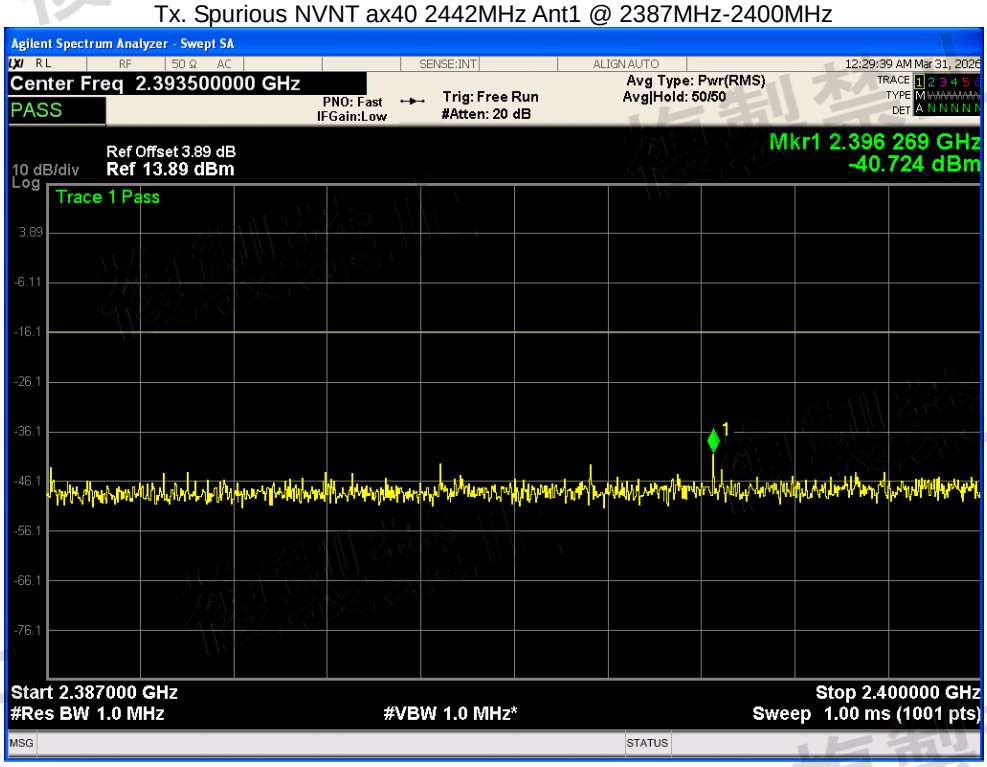
Tx. Spurious NVNT ax40 2442MHz Ant1 @ 30MHz-1000MHz



Tx. Spurious NVNT ax40 2442MHz Ant1 @ 1000MHz-2387MHz

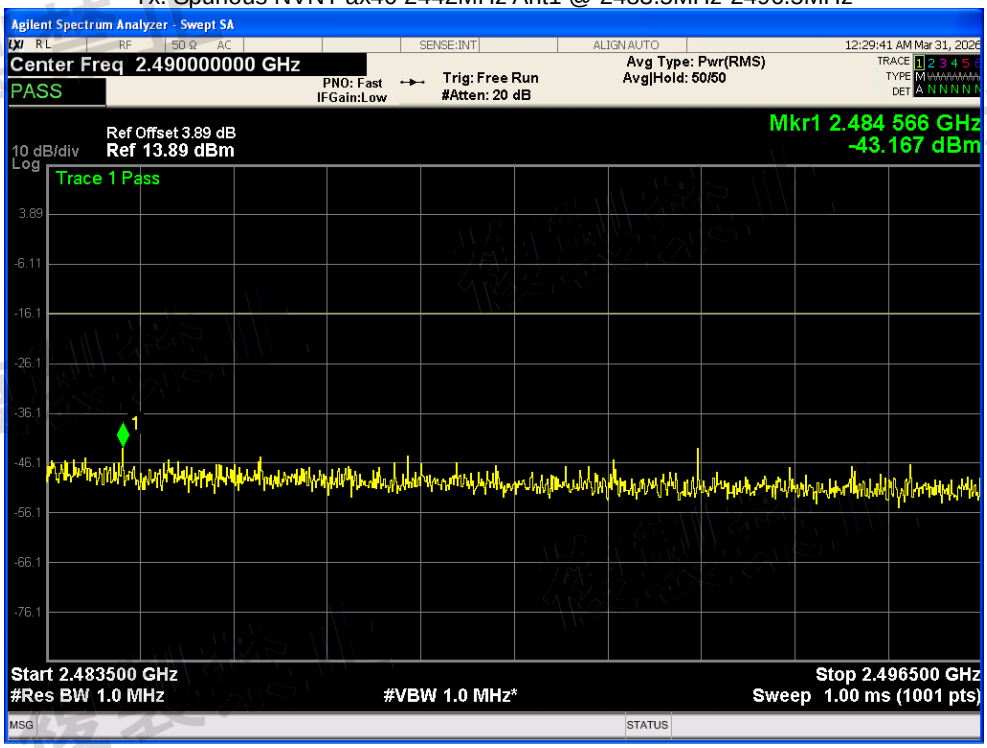


Tx. Spurious NVNT ax40 2442MHz Ant1 @ 2387MHz-2400MHz

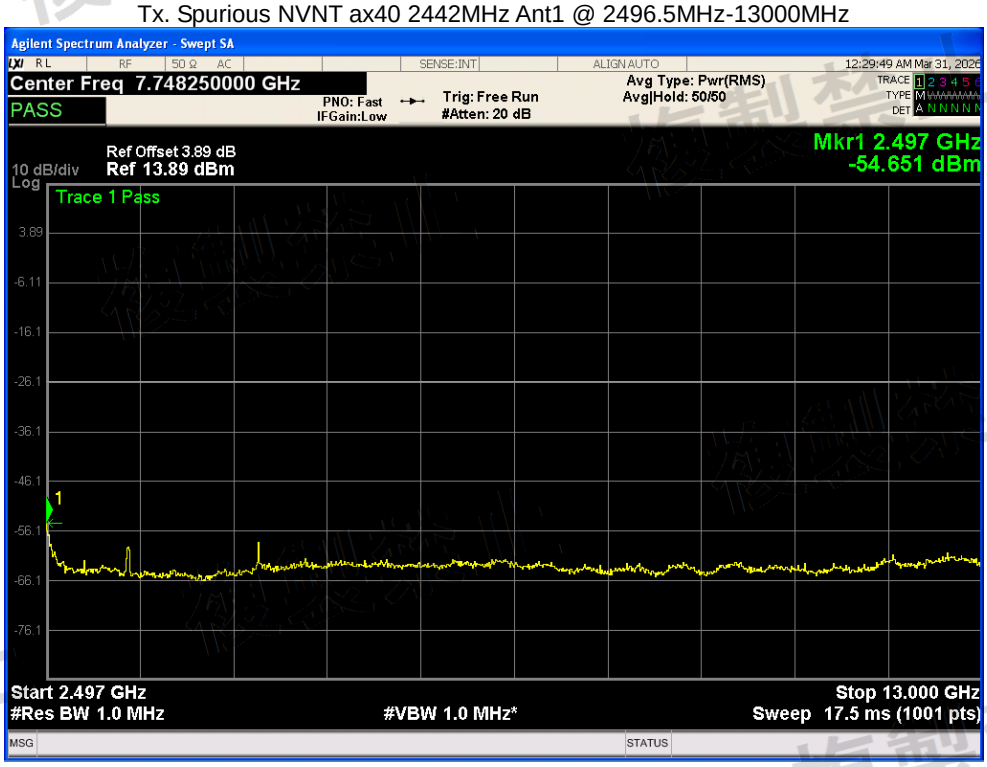


複製禁止

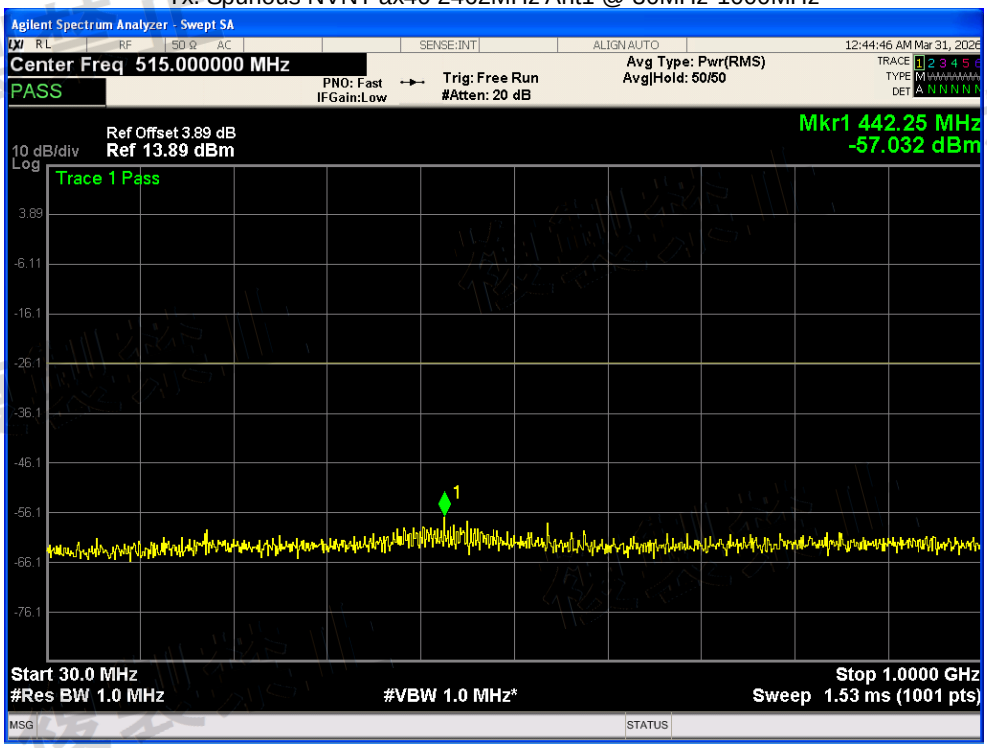
Tx. Spurious NVNT ax40 2442MHz Ant1 @ 2483.5MHz-2496.5MHz



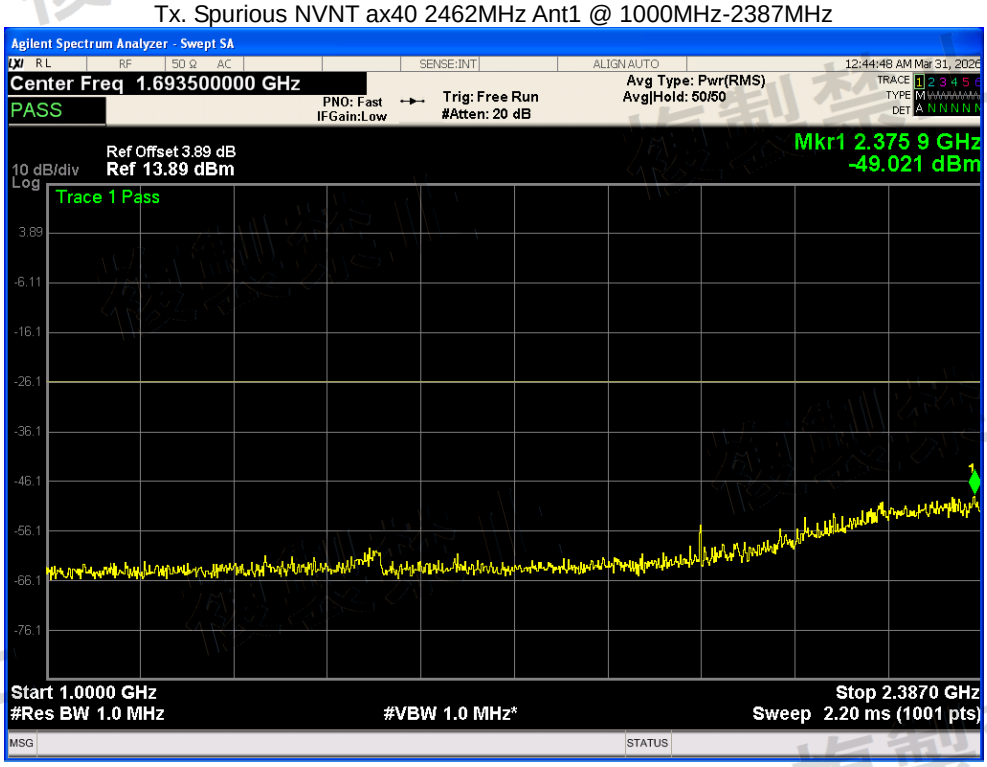
Tx. Spurious NVNT ax40 2442MHz Ant1 @ 2496.5MHz-13000MHz



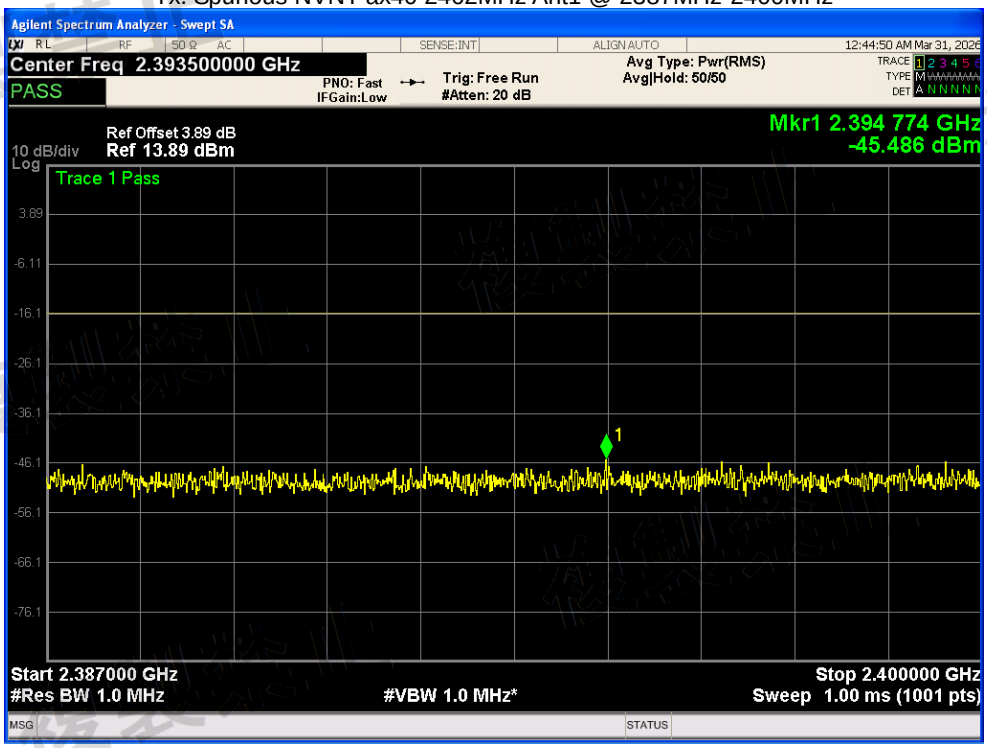
Tx. Spurious NVNT ax40 2462MHz Ant1 @ 30MHz-1000MHz



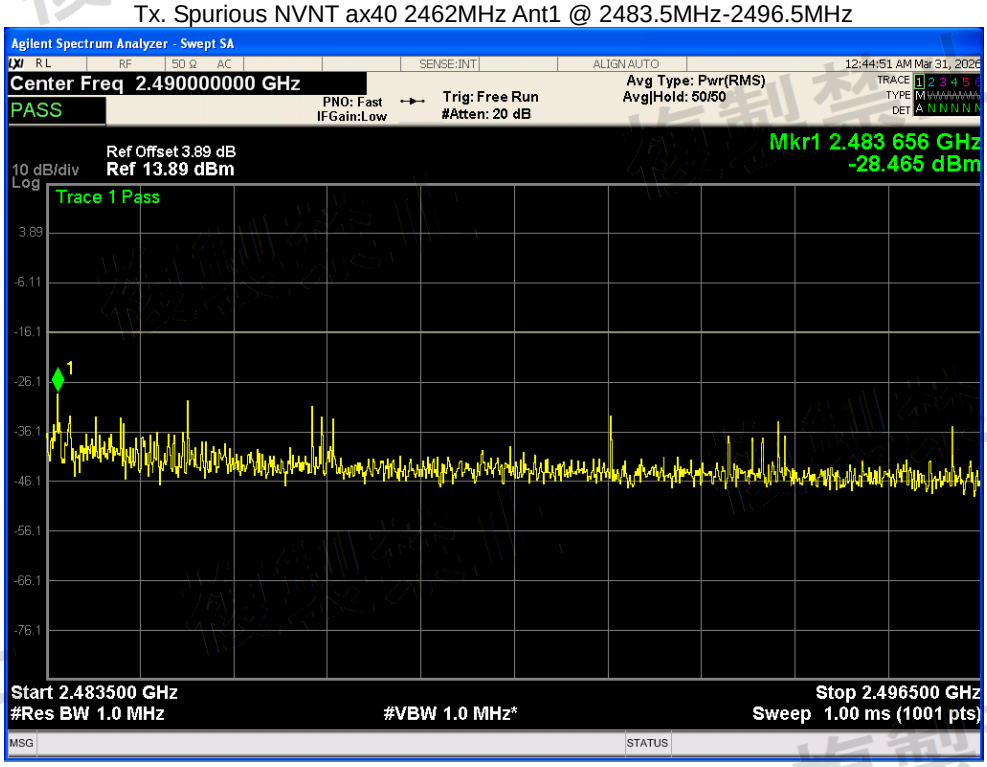
Tx. Spurious NVNT ax40 2462MHz Ant1 @ 1000MHz-2387MHz



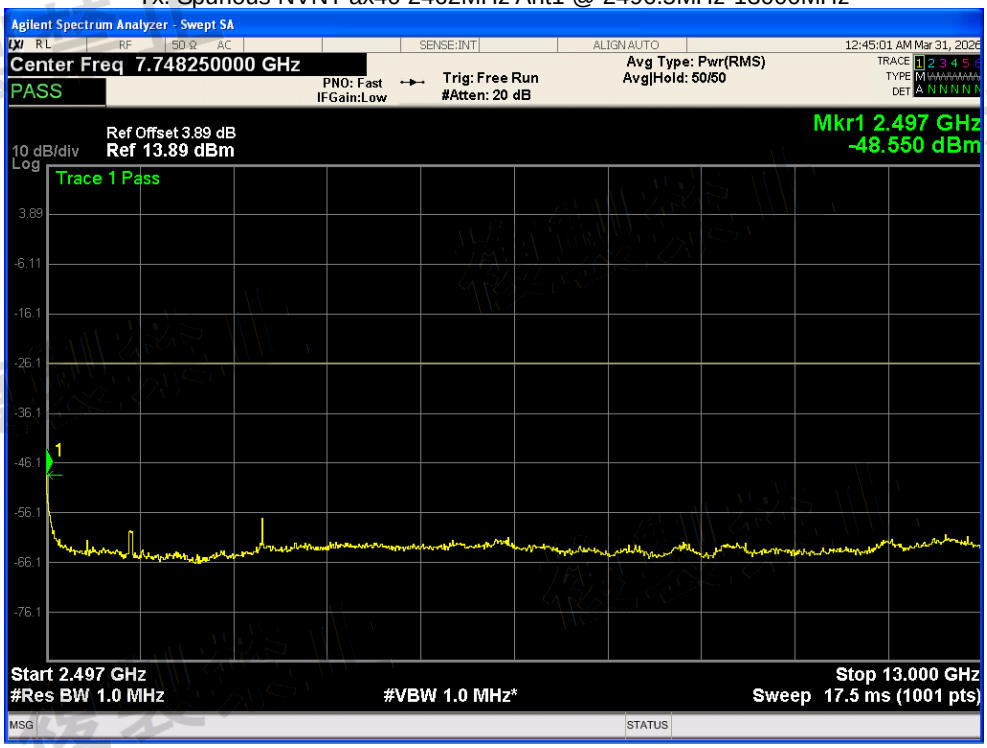
Tx. Spurious NVNT ax40 2462MHz Ant1 @ 2387MHz-2400MHz



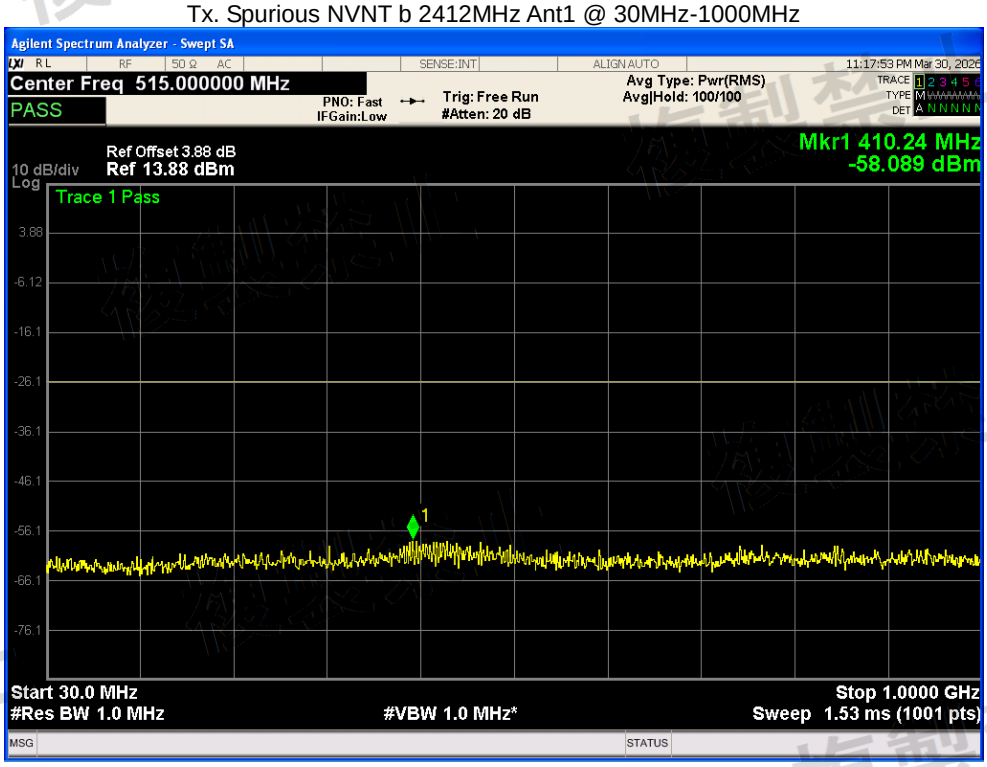
Tx. Spurious NVNT ax40 2462MHz Ant1 @ 2483.5MHz-2496.5MHz



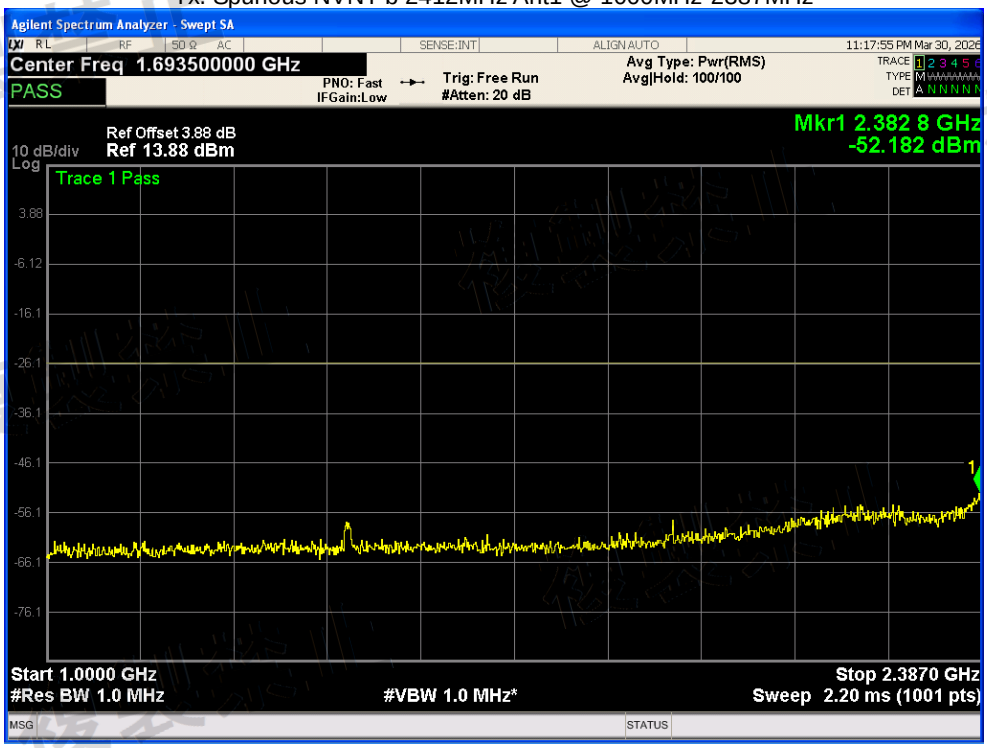
Tx. Spurious NVNT ax40 2462MHz Ant1 @ 2496.5MHz-13000MHz



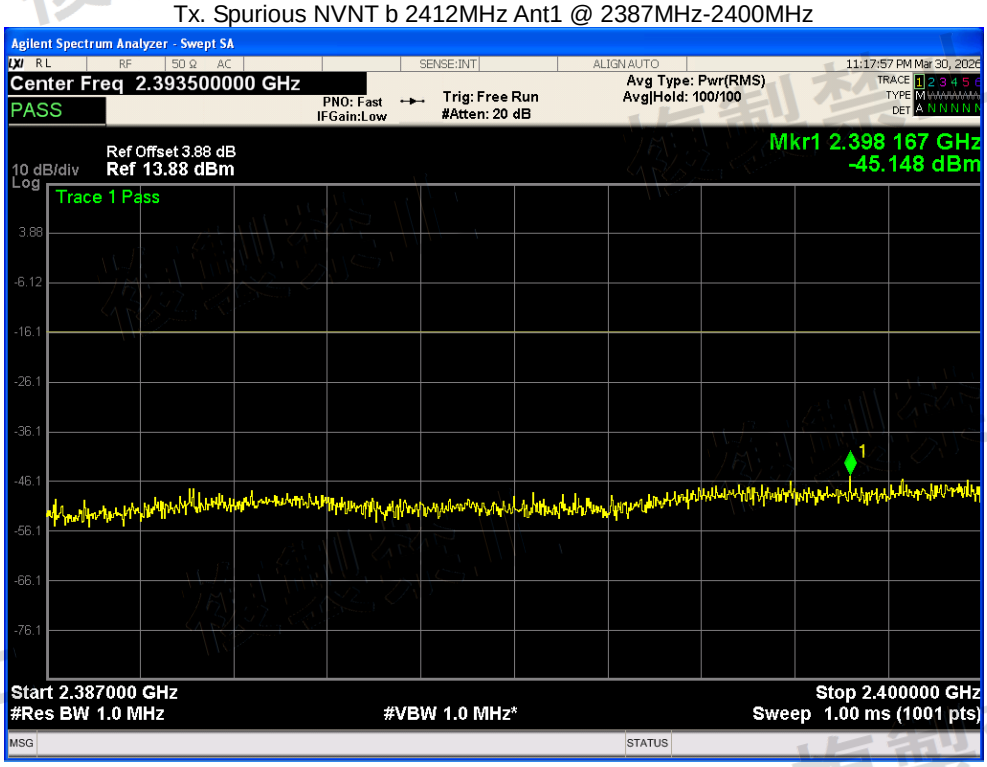
Tx. Spurious NVNT b 2412MHz Ant1 @ 30MHz-1000MHz



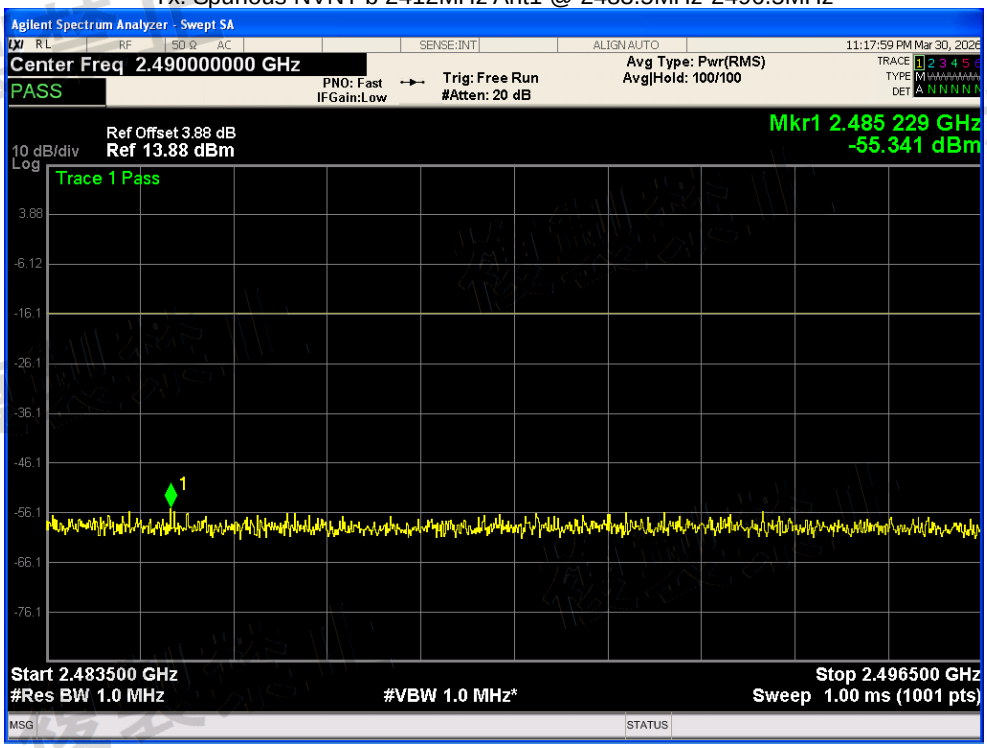
Tx. Spurious NVNT b 2412MHz Ant1 @ 1000MHz-2387MHz



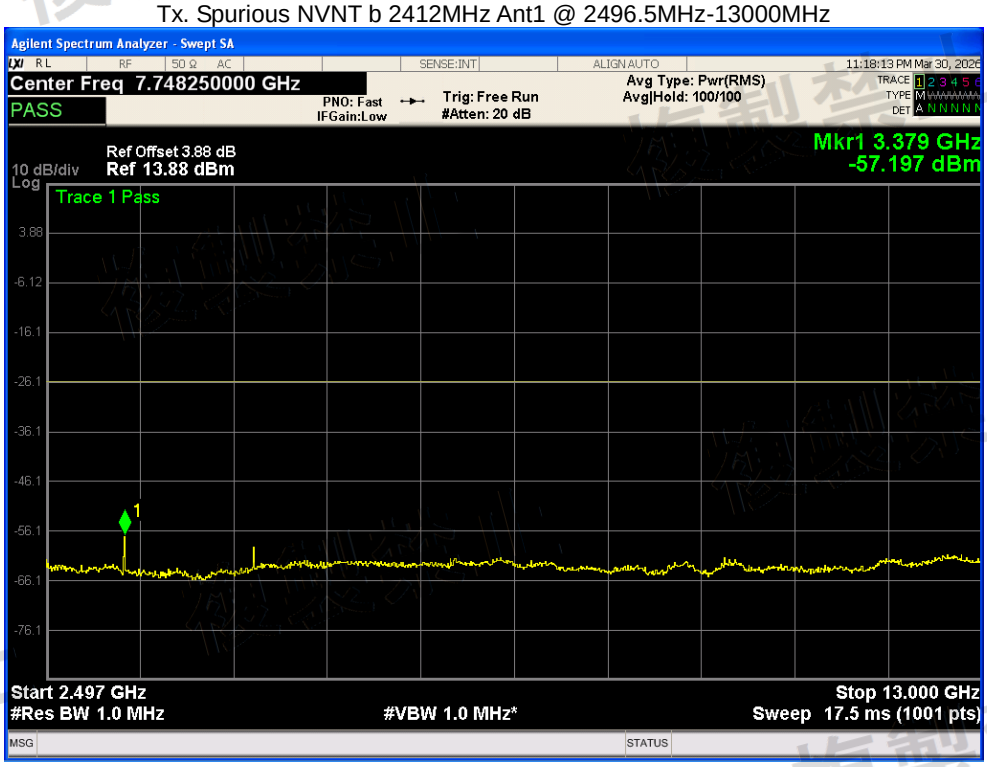
Tx. Spurious NVNT b 2412MHz Ant1 @ 2387MHz-2400MHz



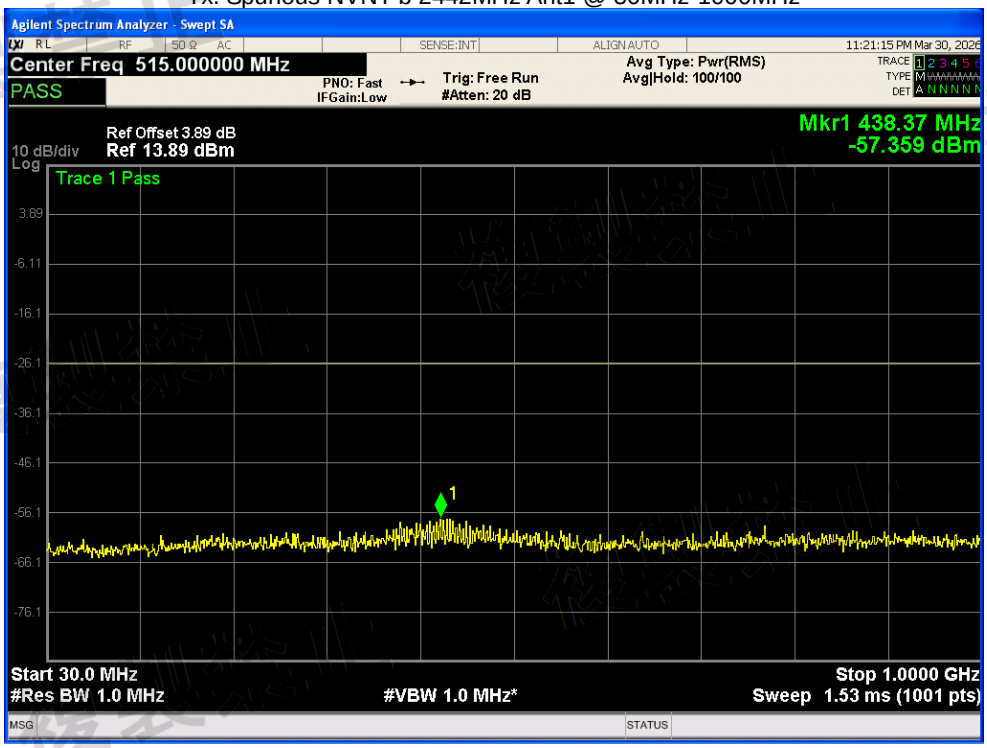
Tx. Spurious NVNT b 2412MHz Ant1 @ 2483.5MHz-2496.5MHz



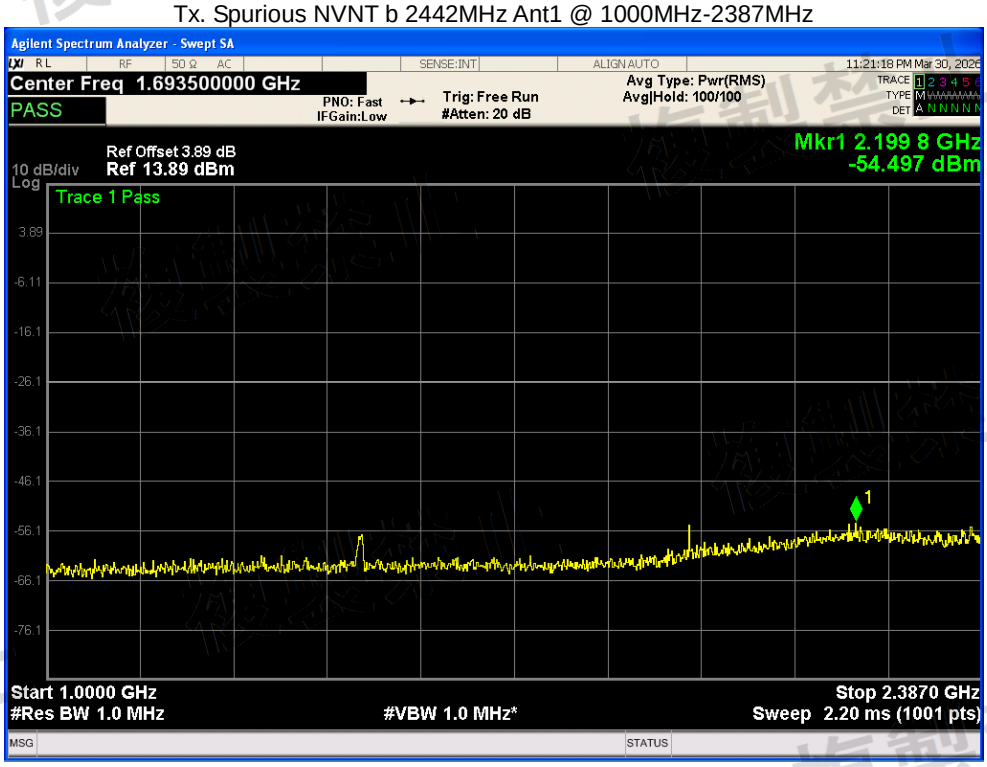
Tx. Spurious NVNT b 2412MHz Ant1 @ 2496.5MHz-13000MHz



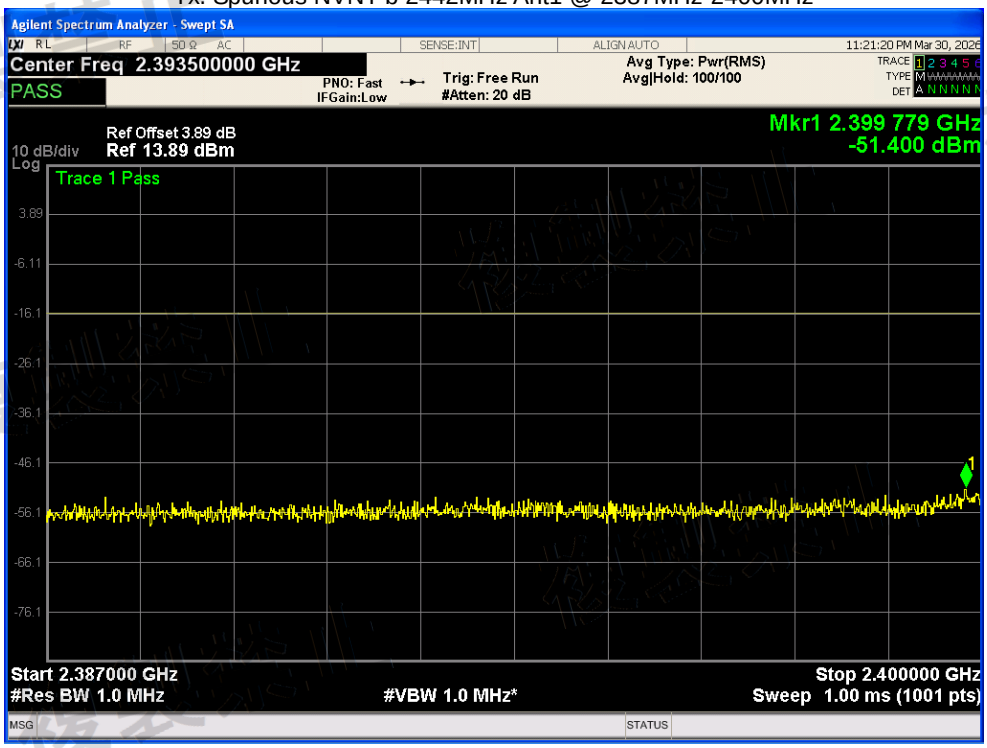
Tx. Spurious NVNT b 2442MHz Ant1 @ 30MHz-1000MHz



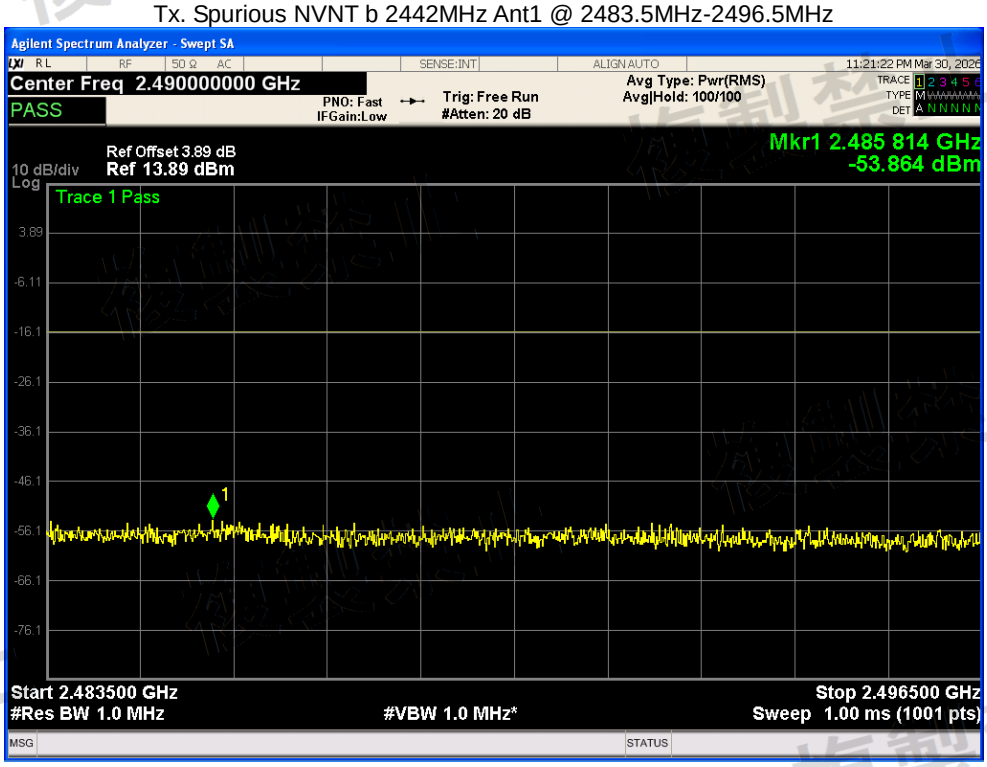
Tx. Spurious NVNT b 2442MHz Ant1 @ 1000MHz-2387MHz



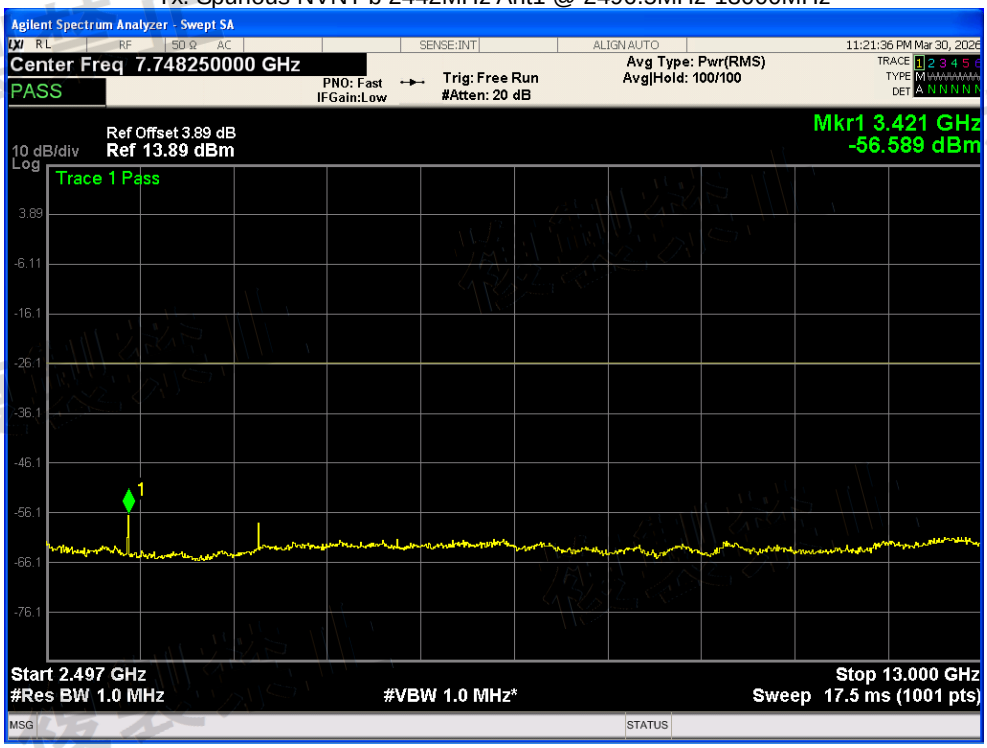
Tx. Spurious NVNT b 2442MHz Ant1 @ 2387MHz-2400MHz



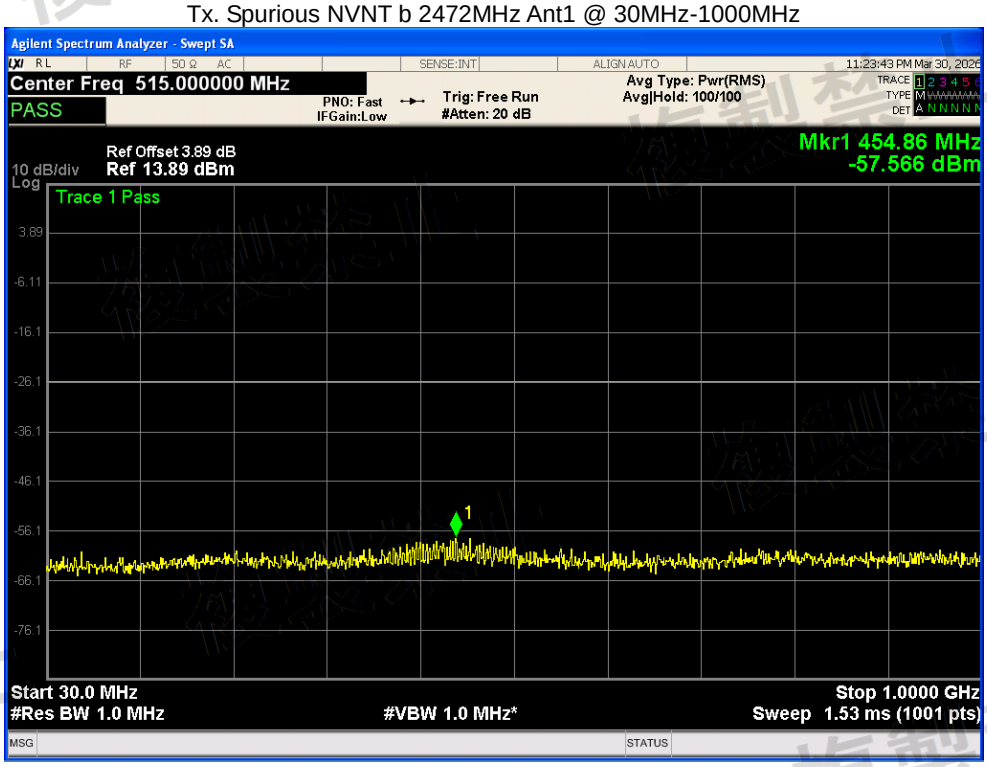
Tx. Spurious NVNT b 2442MHz Ant1 @ 2483.5MHz-2496.5MHz



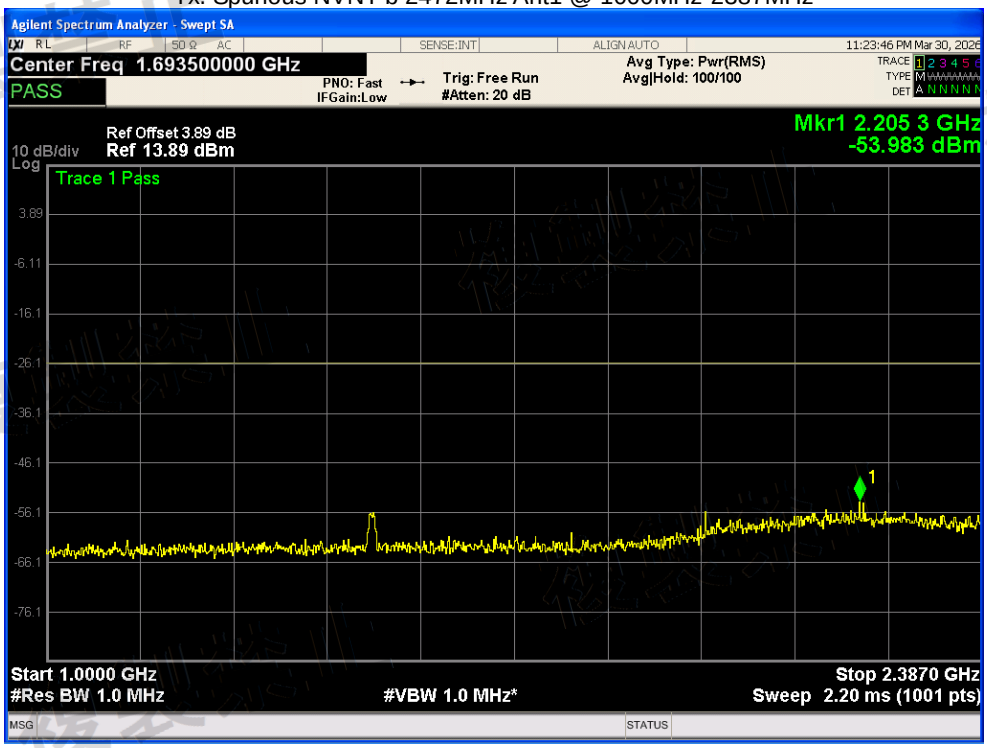
Tx. Spurious NVNT b 2442MHz Ant1 @ 2496.5MHz-13000MHz



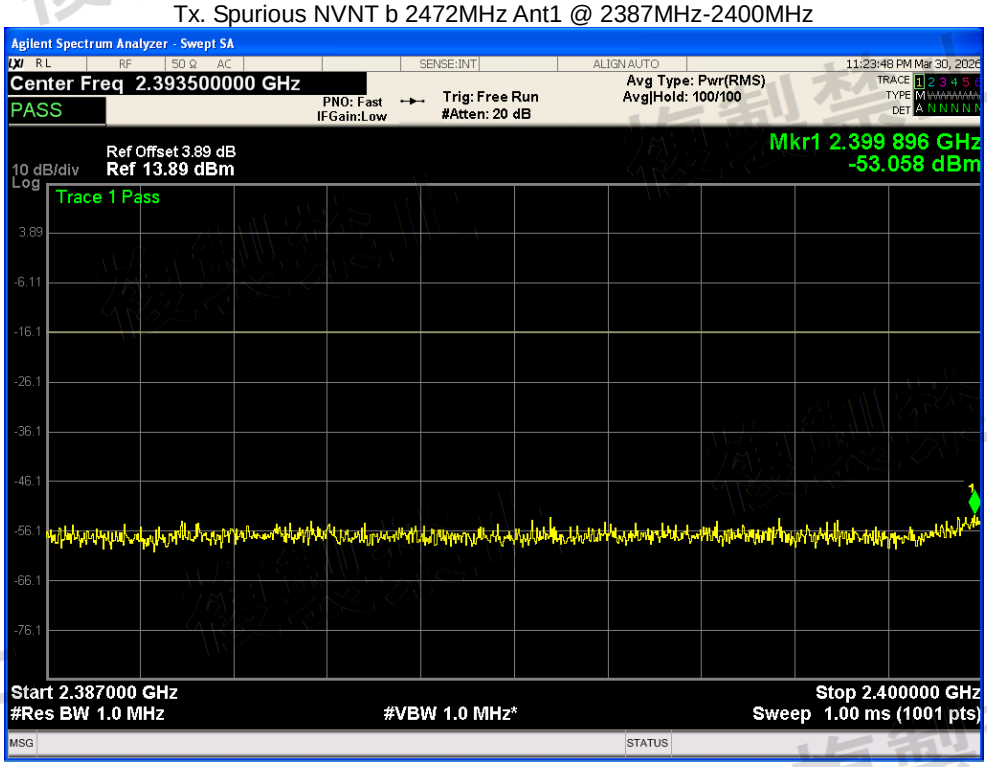
Tx. Spurious NVNT b 2472MHz Ant1 @ 30MHz-1000MHz



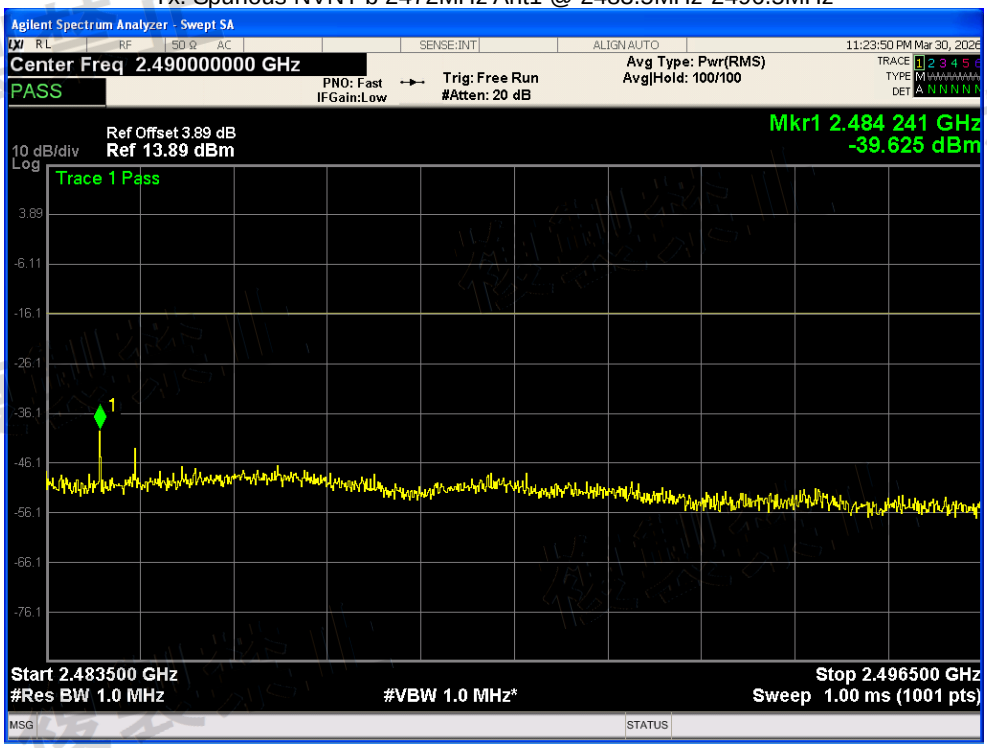
Tx. Spurious NVNT b 2472MHz Ant1 @ 1000MHz-2387MHz



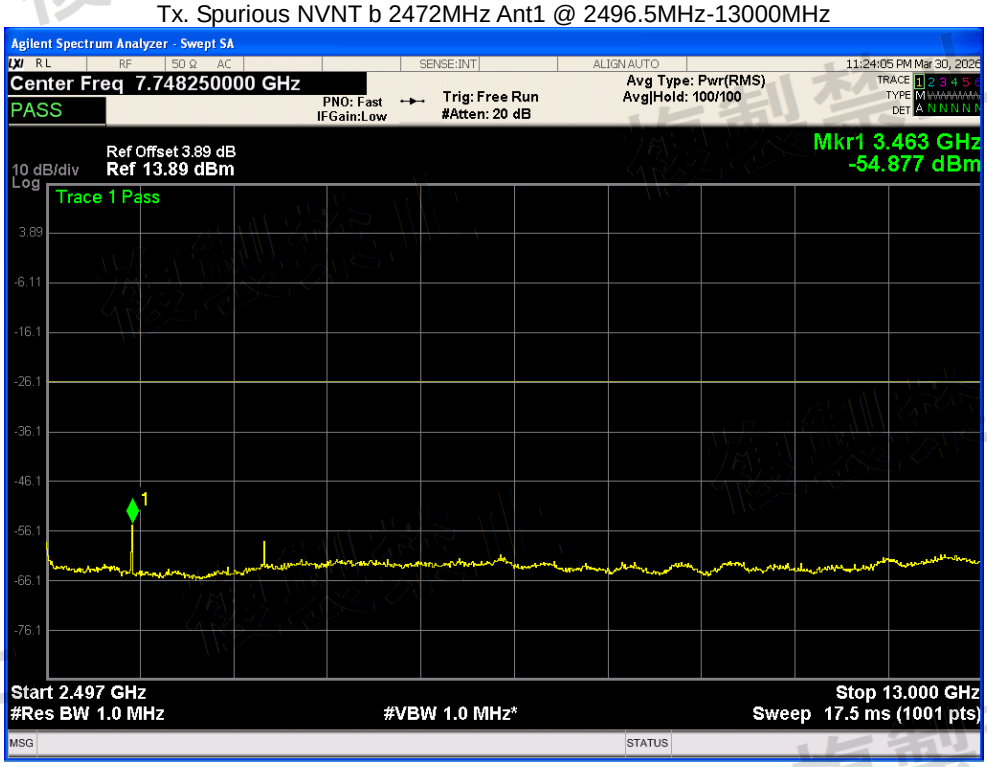
Tx. Spurious NVNT b 2472MHz Ant1 @ 2387MHz-2400MHz



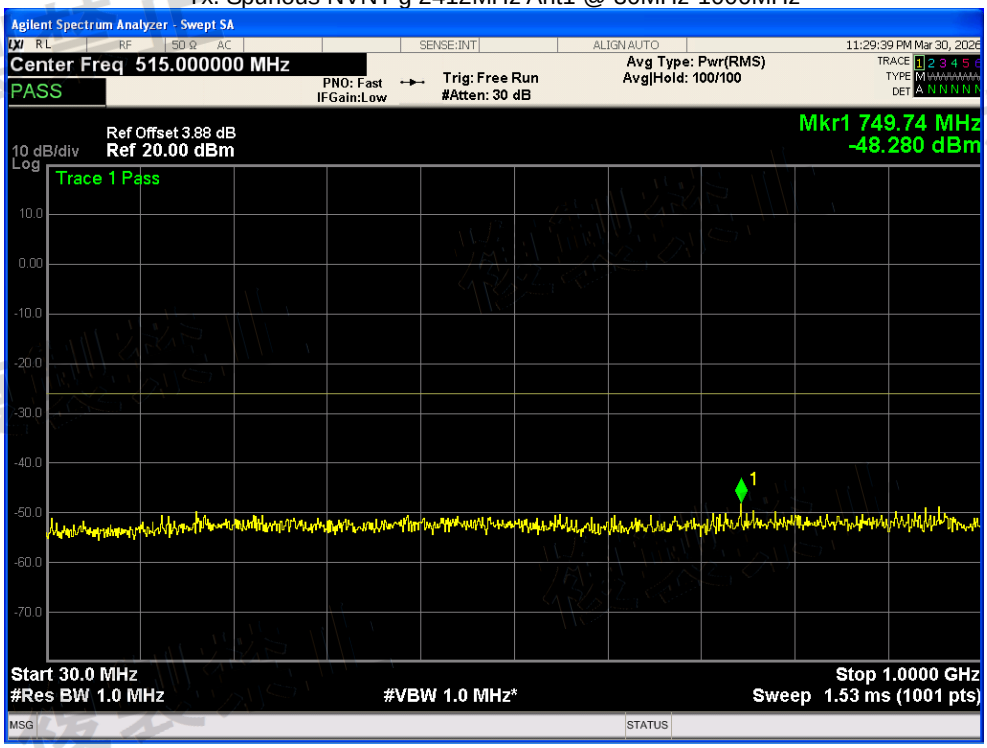
Tx. Spurious NVNT b 2472MHz Ant1 @ 2483.5MHz-2496.5MHz



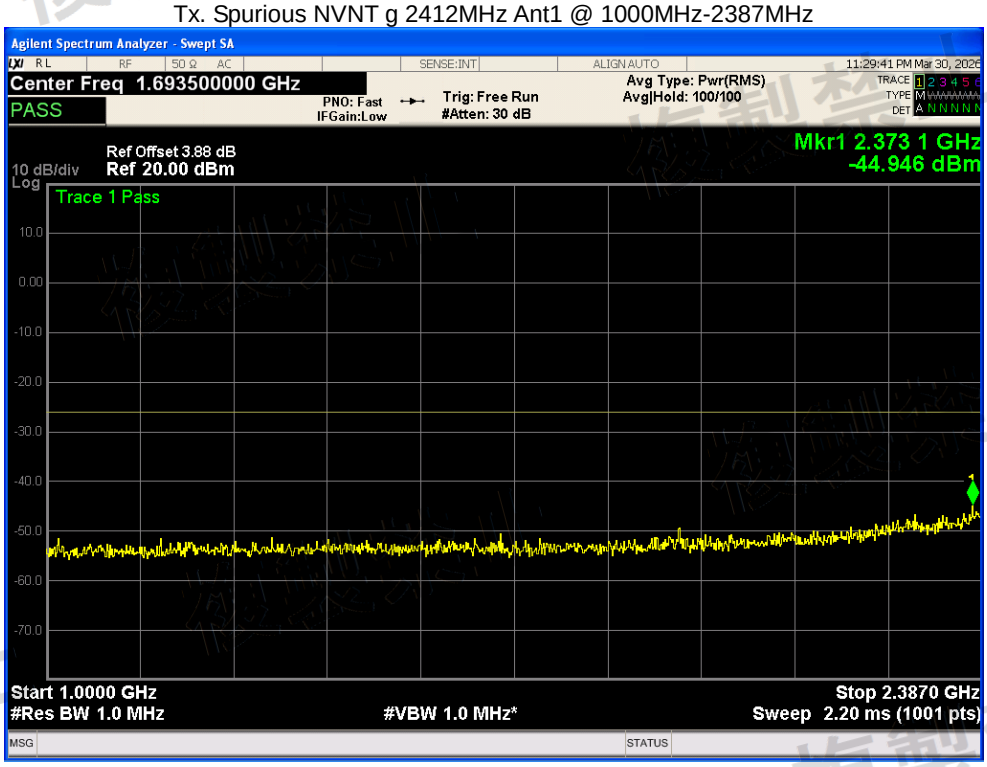
Tx. Spurious NVNT b 2472MHz Ant1 @ 2496.5MHz-13000MHz



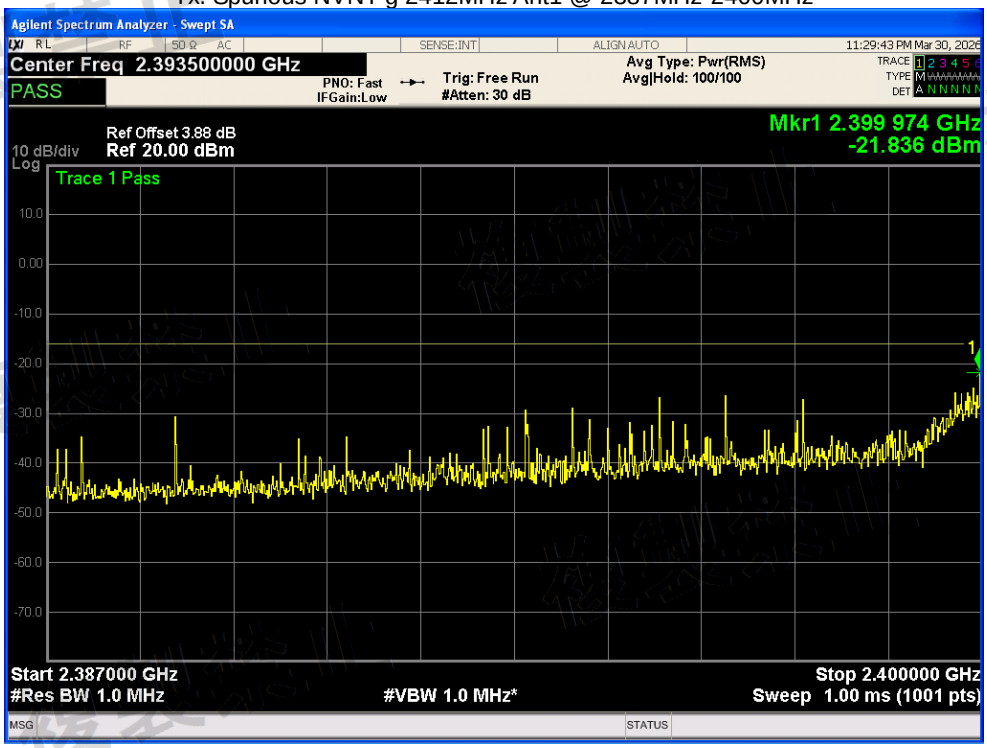
Tx. Spurious NVNT g 2412MHz Ant1 @ 30MHz-1000MHz



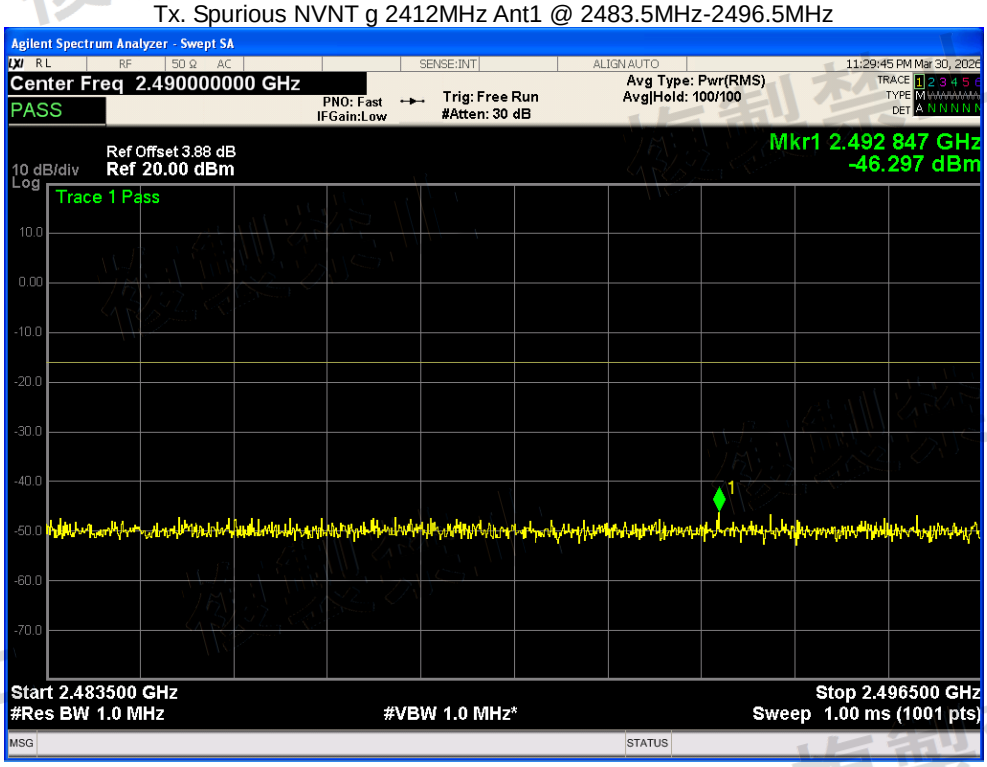
Tx. Spurious NVNT g 2412MHz Ant1 @ 1000MHz-2387MHz



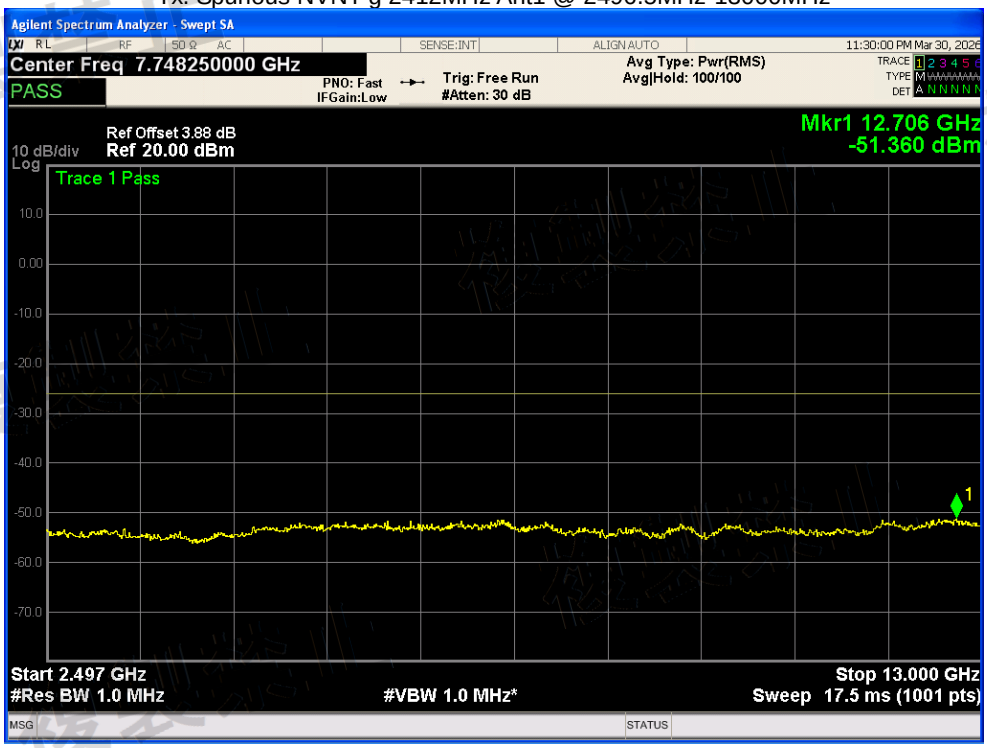
Tx. Spurious NVNT g 2412MHz Ant1 @ 2387MHz-2400MHz



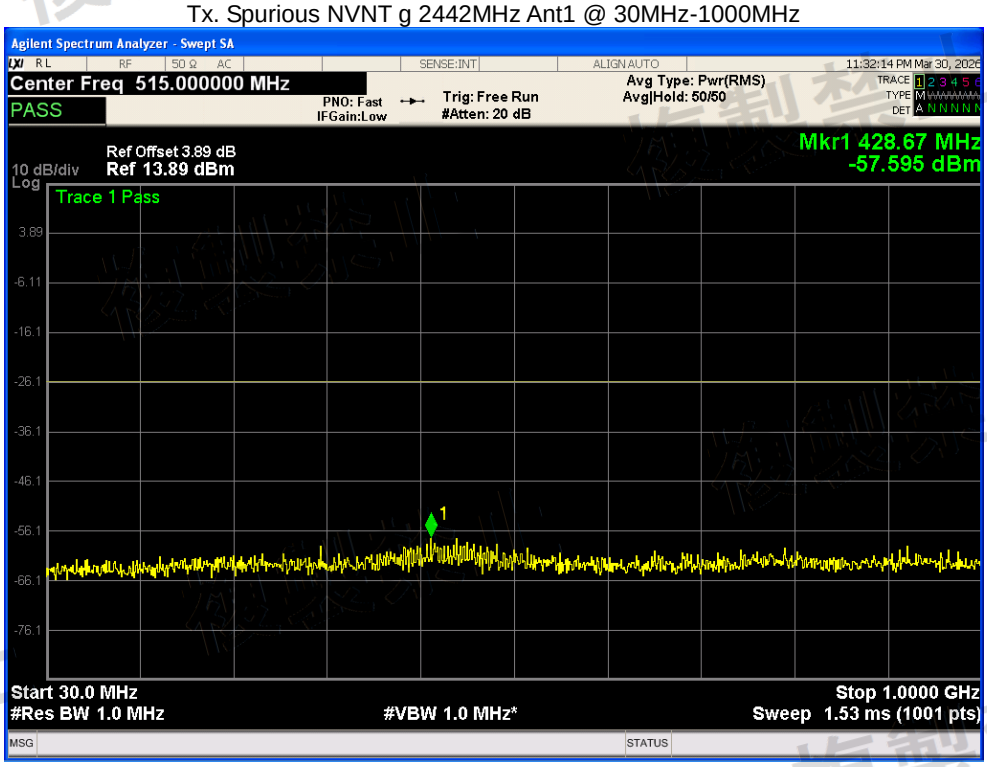
Tx. Spurious NVNT g 2412MHz Ant1 @ 2483.5MHz-2496.5MHz



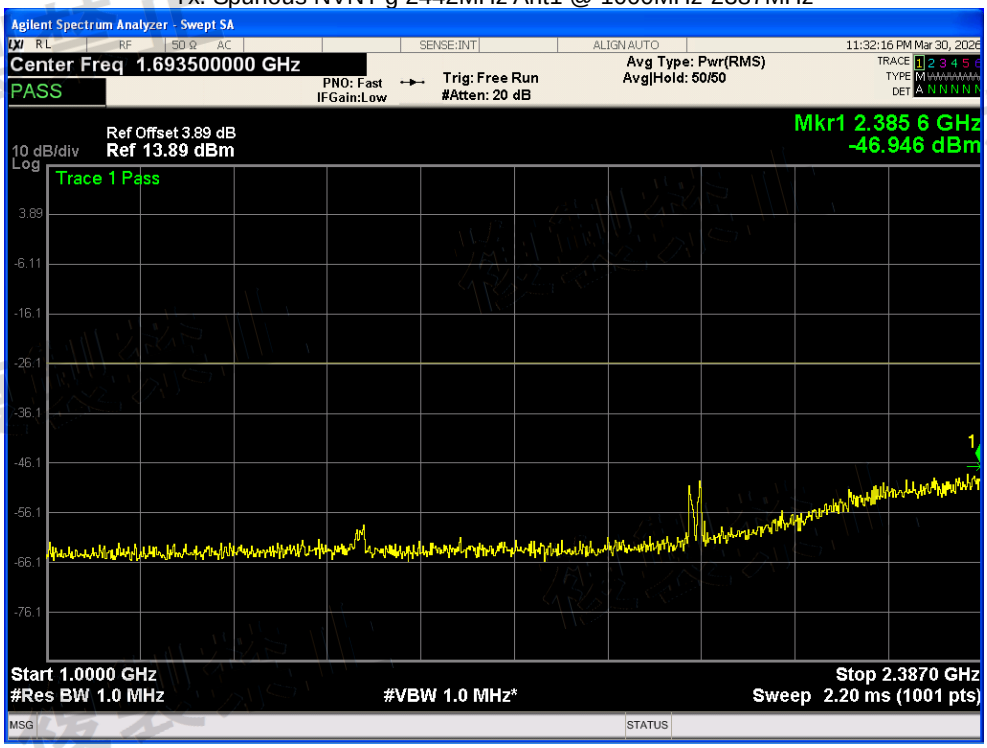
Tx. Spurious NVNT g 2412MHz Ant1 @ 2496.5MHz-13000MHz



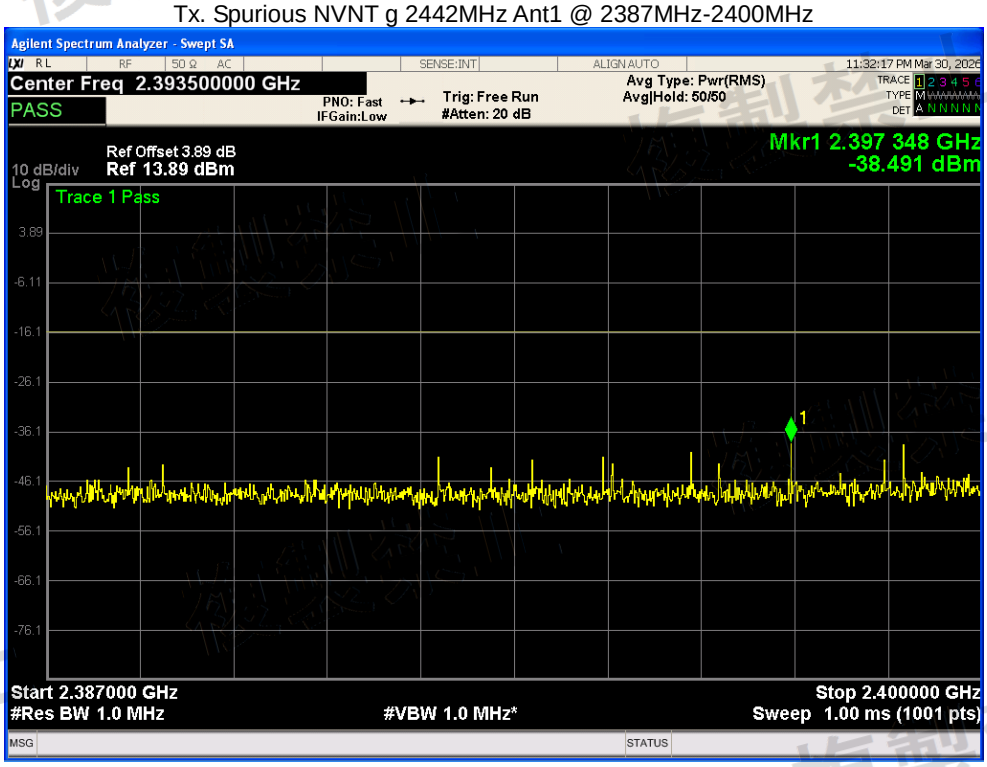
Tx. Spurious NVNT g 2442MHz Ant1 @ 30MHz-1000MHz



Tx. Spurious NVNT g 2442MHz Ant1 @ 1000MHz-2387MHz

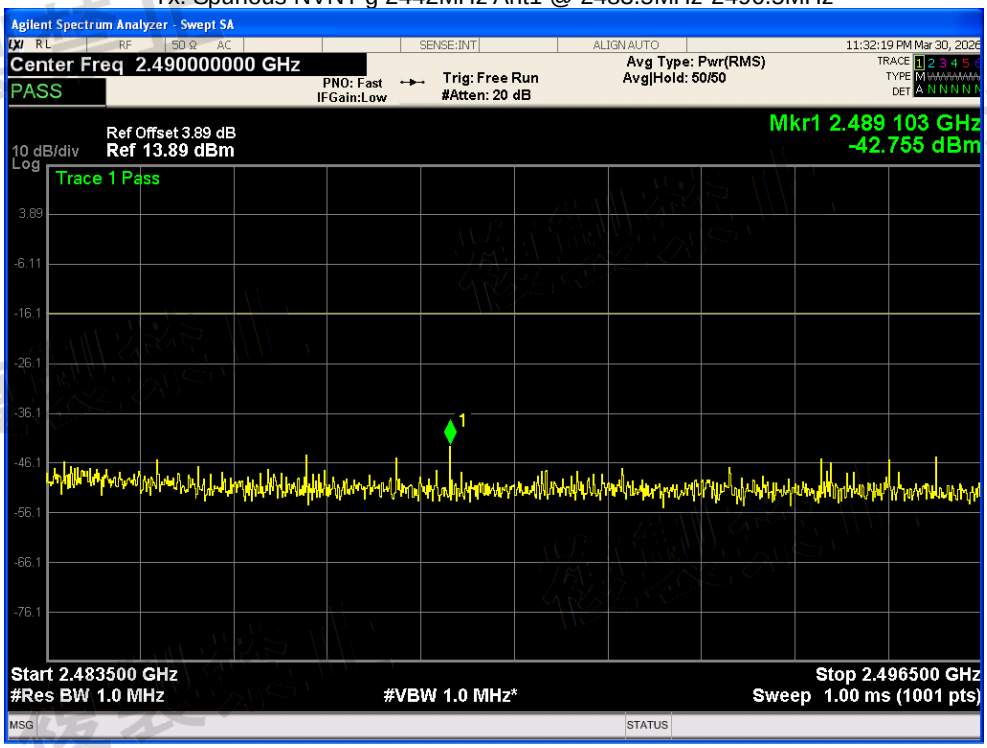


Tx. Spurious NVNT g 2442MHz Ant1 @ 2387MHz-2400MHz

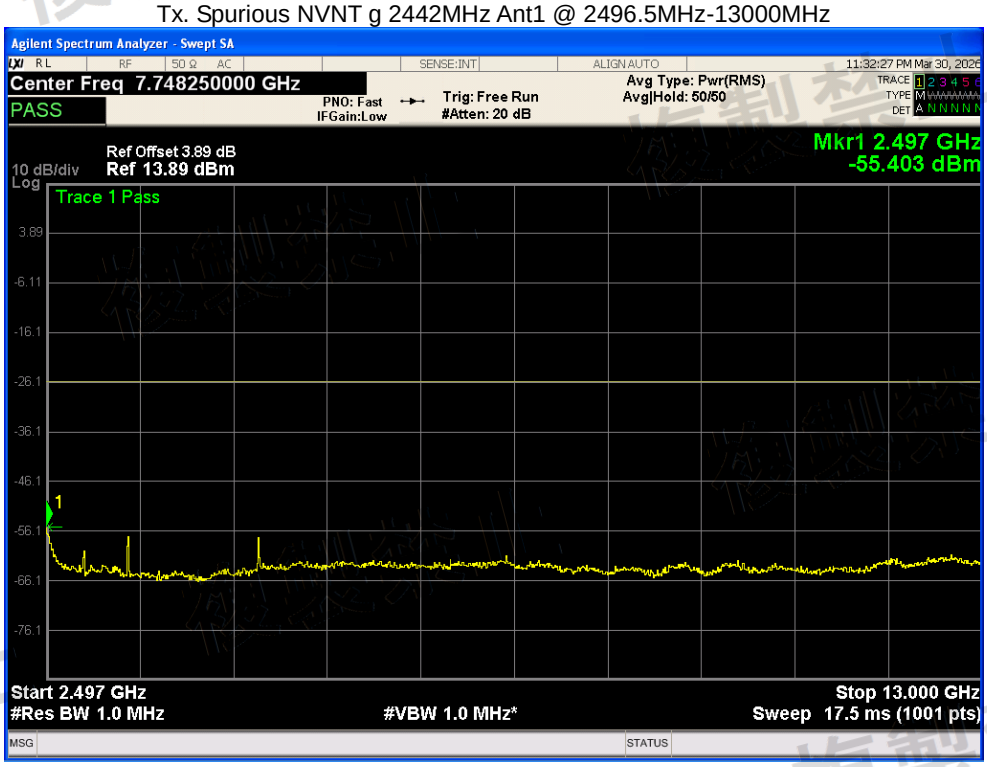


複製禁止

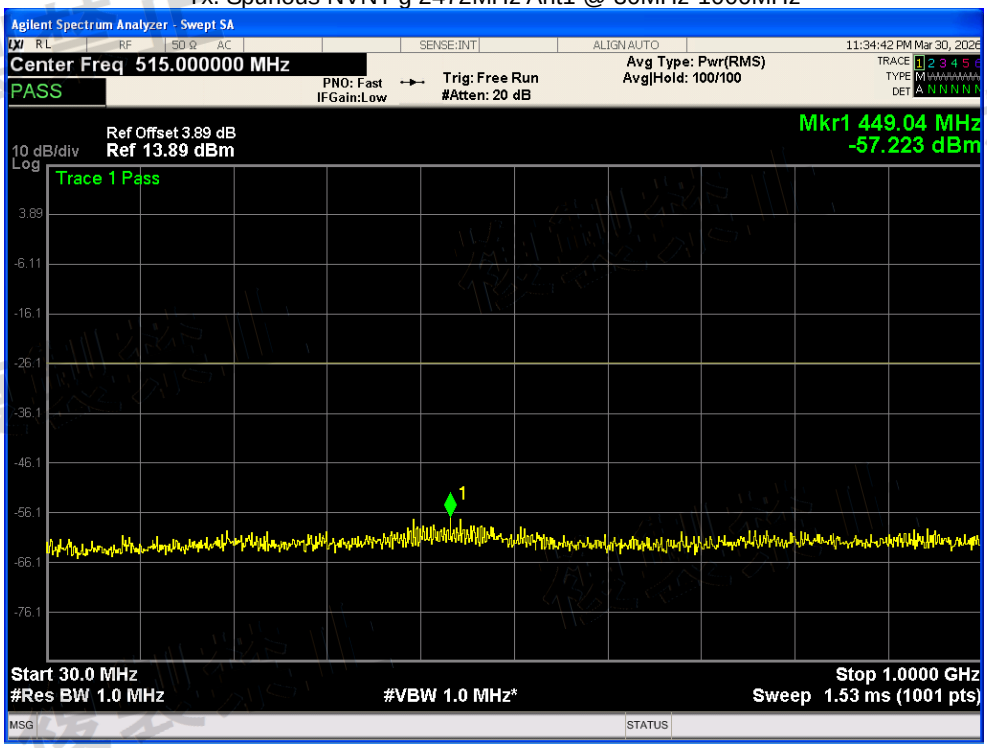
Tx. Spurious NVNT g 2442MHz Ant1 @ 2483.5MHz-2496.5MHz



Tx. Spurious NVNT g 2442MHz Ant1 @ 2496.5MHz-13000MHz

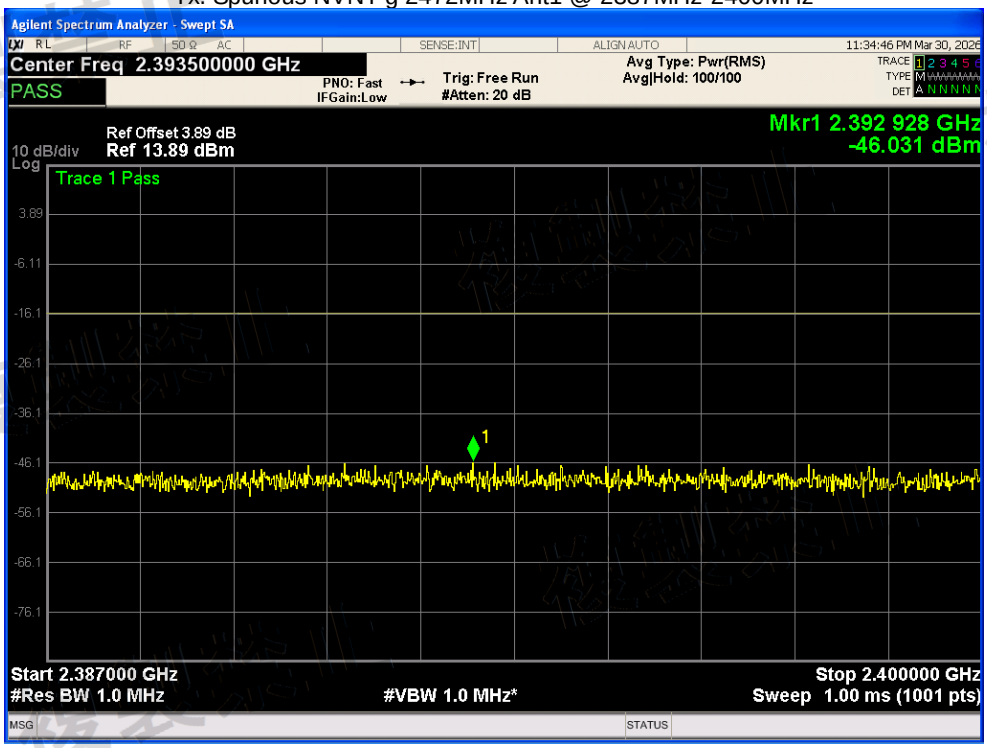


Tx. Spurious NVNT g 2472MHz Ant1 @ 30MHz-1000MHz

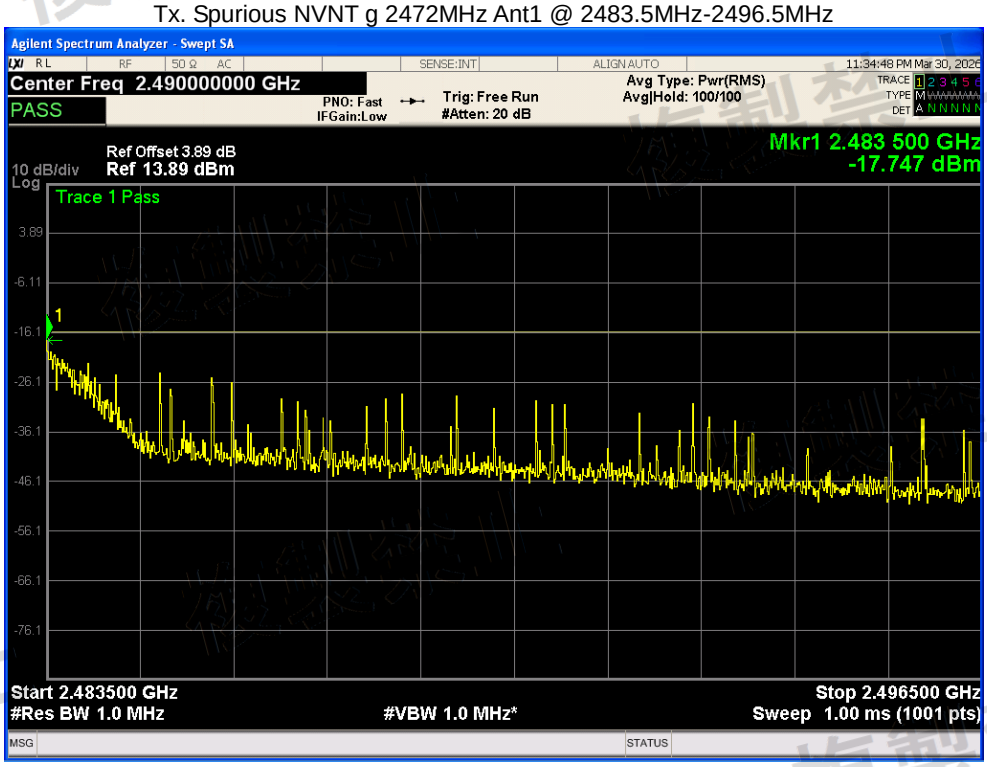


Tx. Spurious NVNT g 2472MHz Ant1 @ 1000MHz-2387MHz

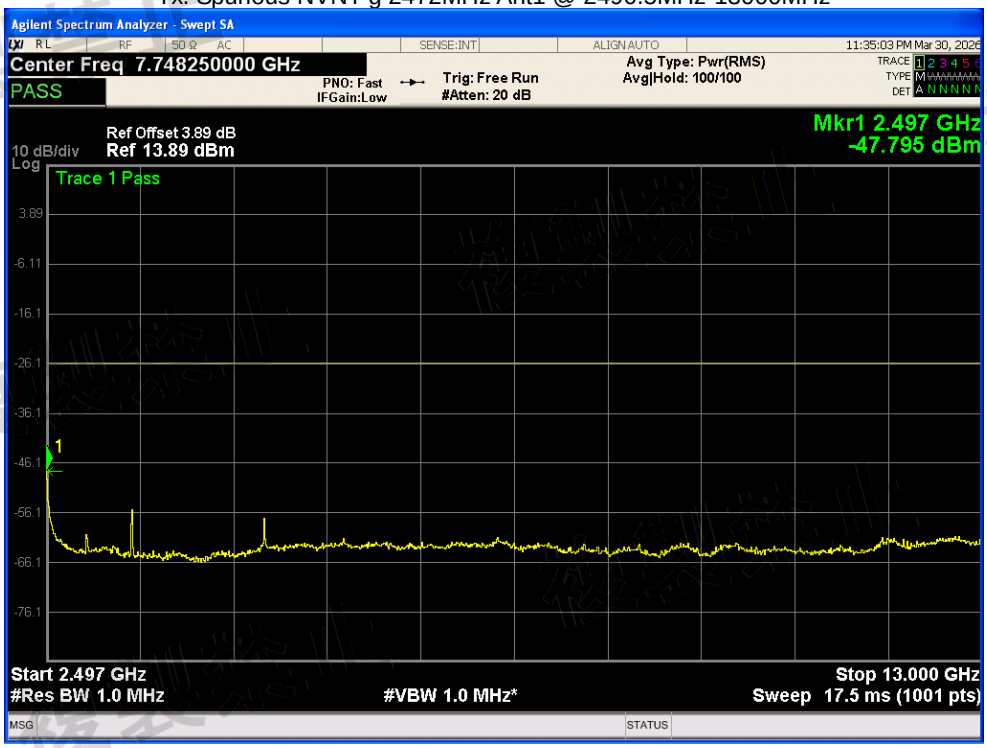
Tx. Spurious NVNT g 2472MHz Ant1 @ 2387MHz-2400MHz



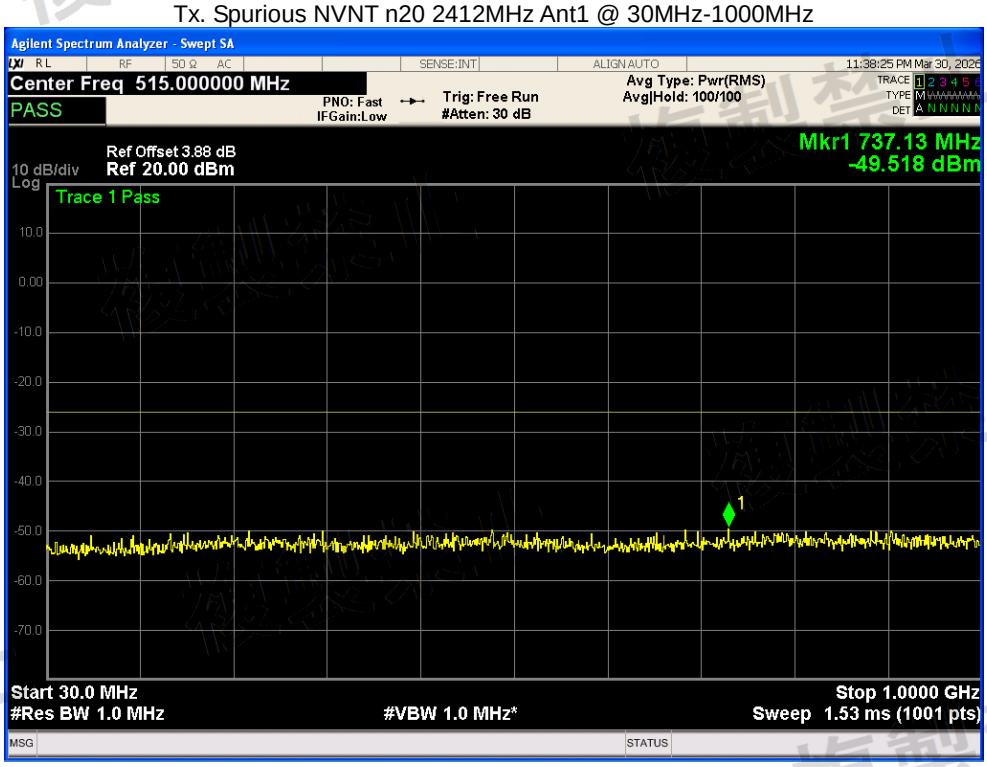
Tx. Spurious NVNT g 2472MHz Ant1 @ 2483.5MHz-2496.5MHz



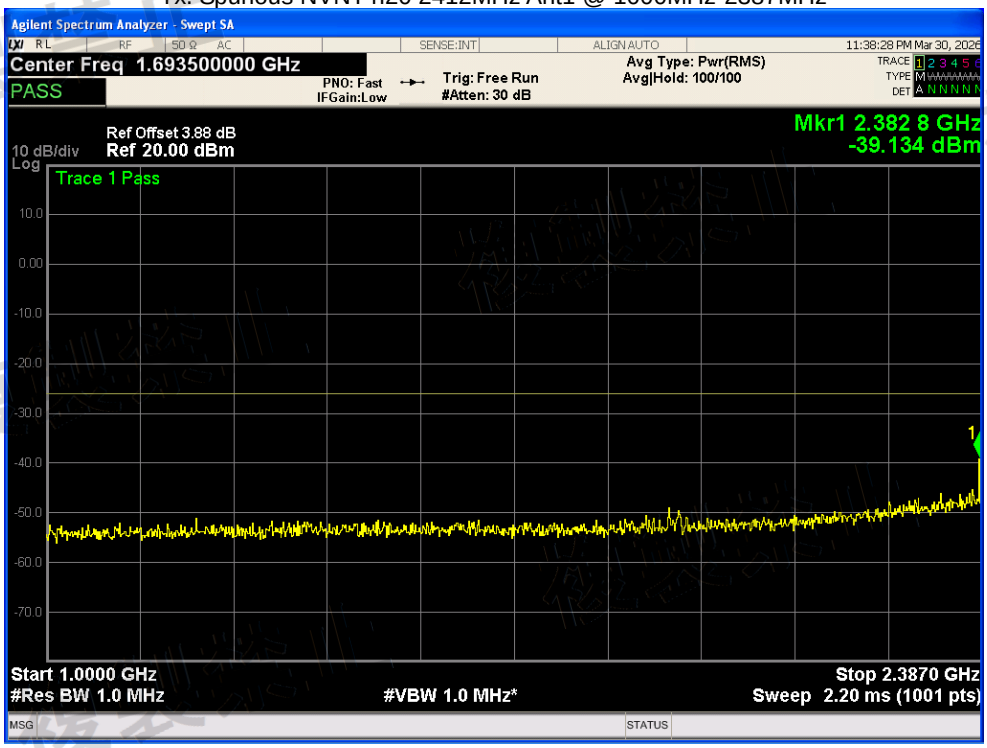
Tx. Spurious NVNT g 2472MHz Ant1 @ 2496.5MHz-13000MHz



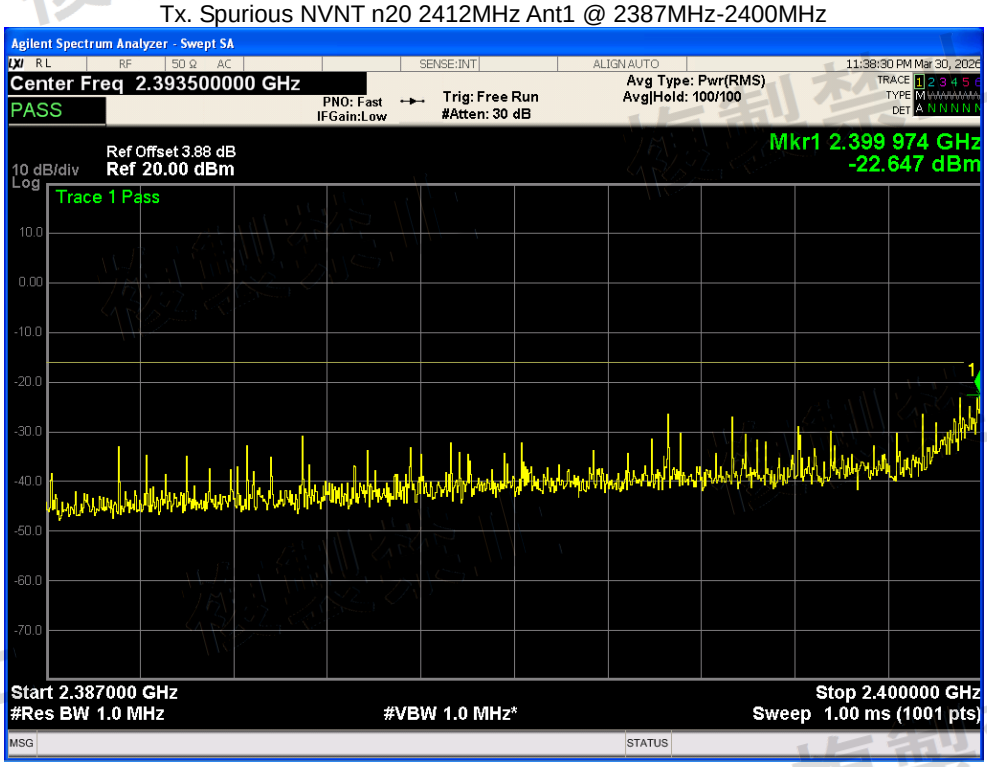
Tx. Spurious NVNT n20 2412MHz Ant1 @ 30MHz-1000MHz



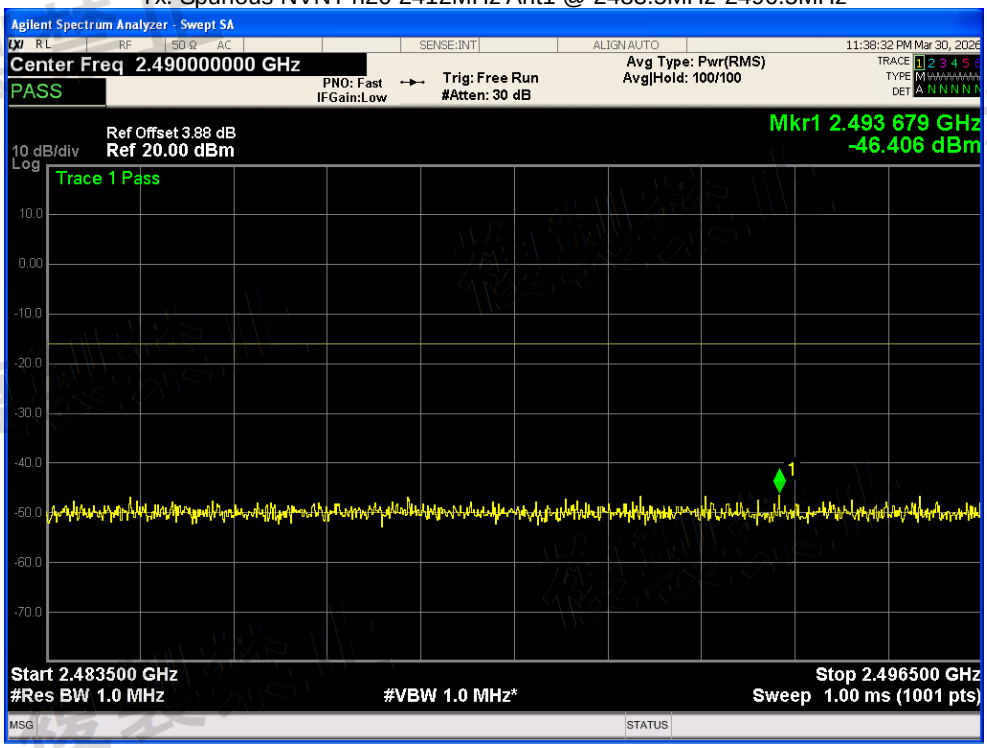
Tx. Spurious NVNT n20 2412MHz Ant1 @ 1000MHz-2387MHz



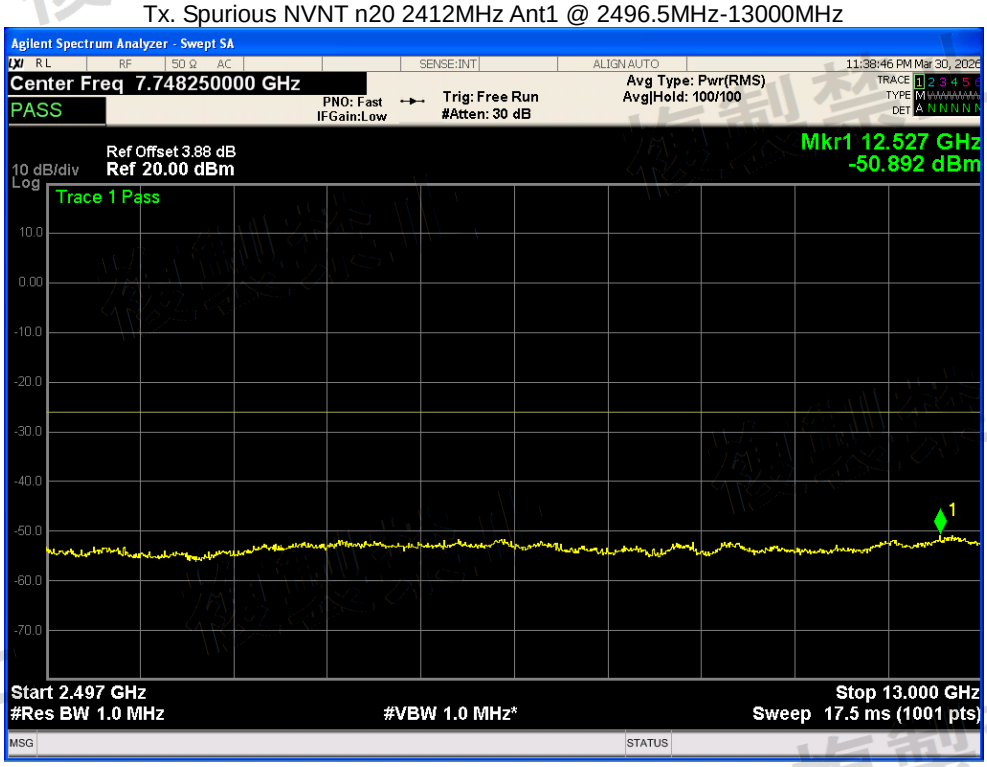
Tx. Spurious NVNT n20 2412MHz Ant1 @ 2387MHz-2400MHz



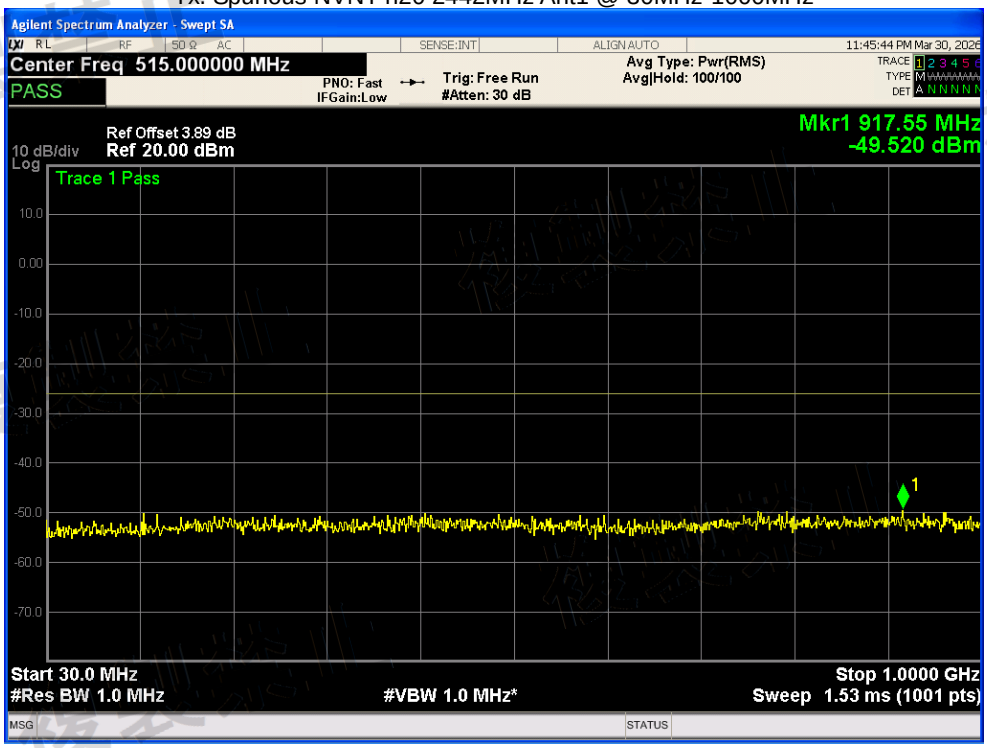
Tx. Spurious NVNT n20 2412MHz Ant1 @ 2483.5MHz-2496.5MHz



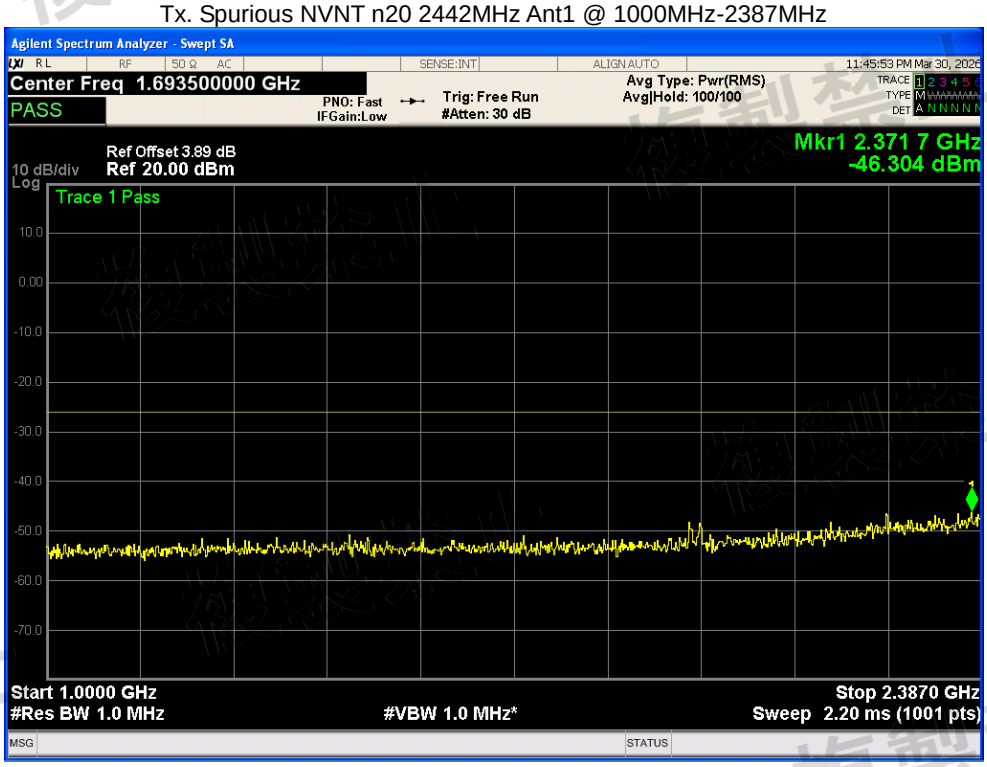
Tx. Spurious NVNT n20 2412MHz Ant1 @ 2496.5MHz-13000MHz



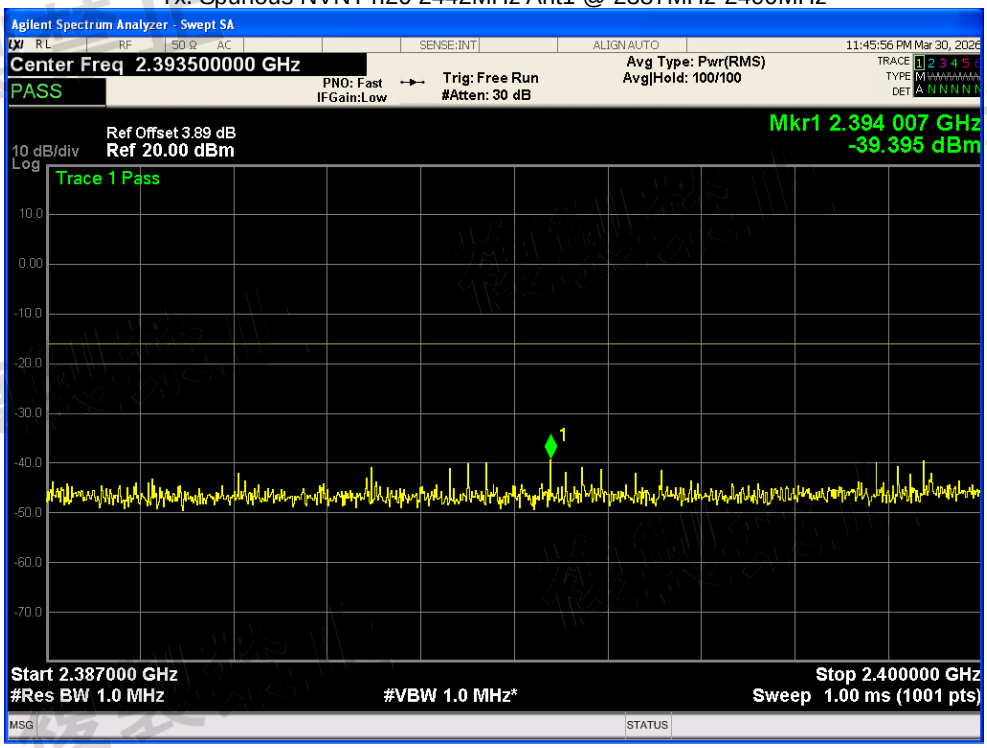
Tx. Spurious NVNT n20 2442MHz Ant1 @ 30MHz-1000MHz



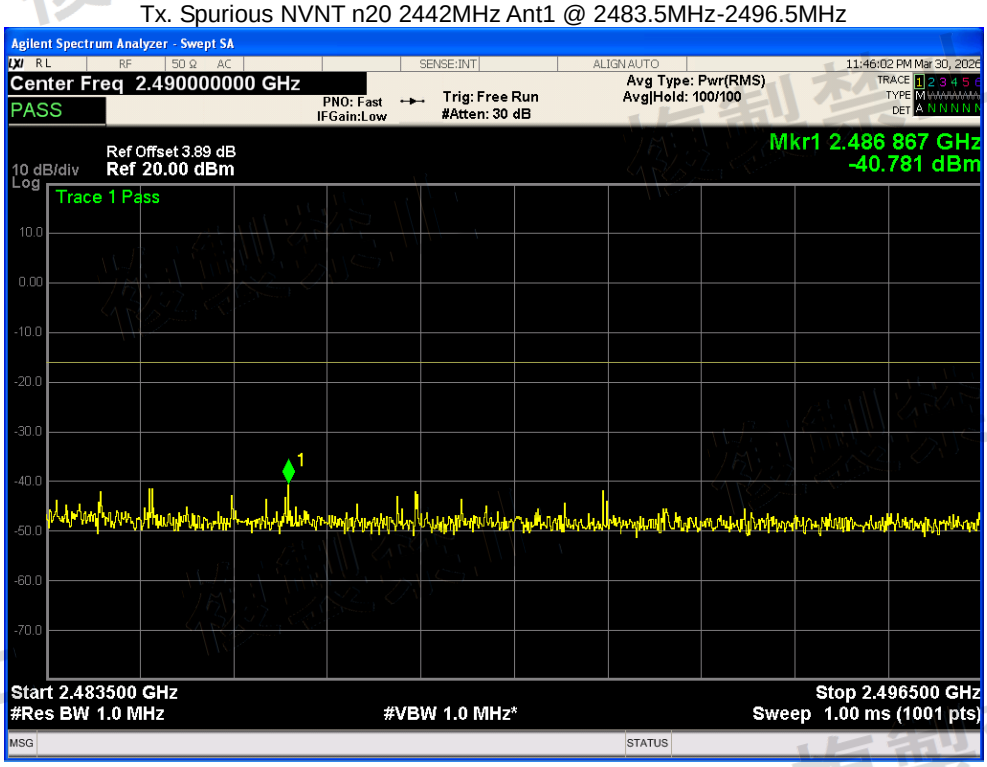
Tx. Spurious NVNT n20 2442MHz Ant1 @ 1000MHz-2387MHz



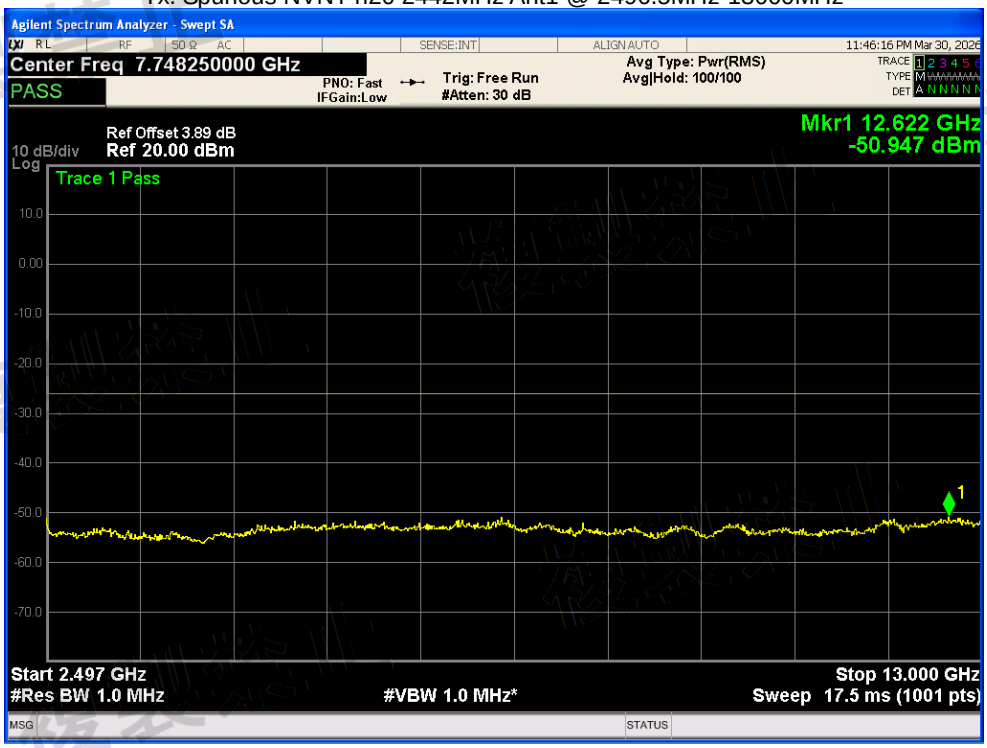
Tx. Spurious NVNT n20 2442MHz Ant1 @ 2387MHz-2400MHz



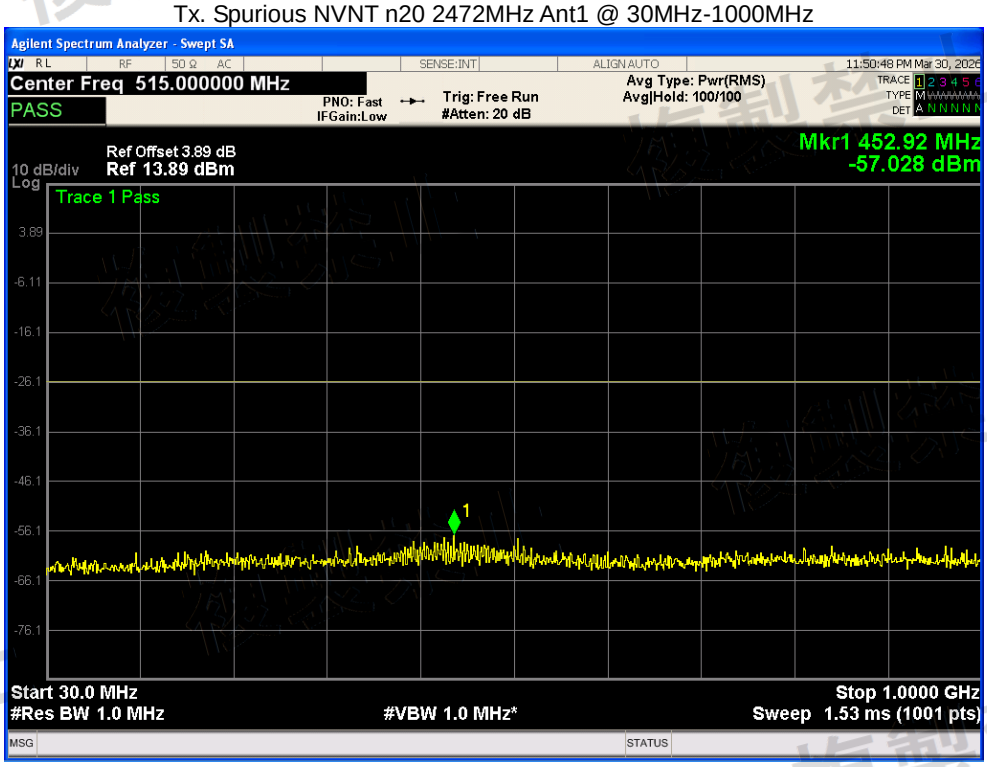
Tx. Spurious NVNT n20 2442MHz Ant1 @ 2483.5MHz-2496.5MHz



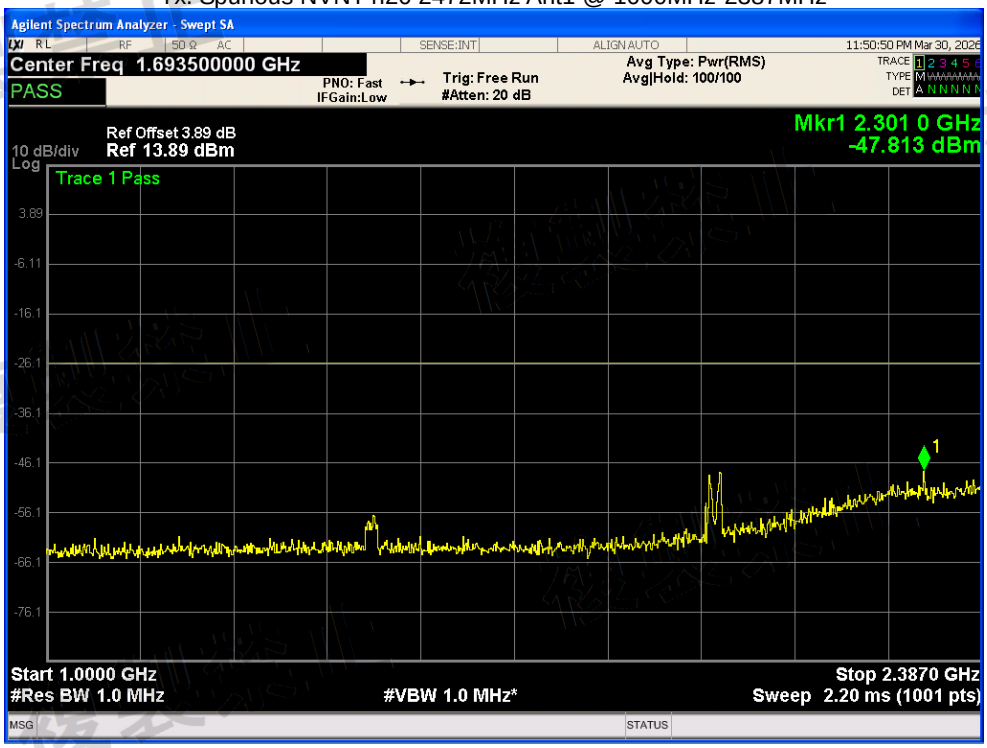
Tx. Spurious NVNT n20 2442MHz Ant1 @ 2496.5MHz-13000MHz



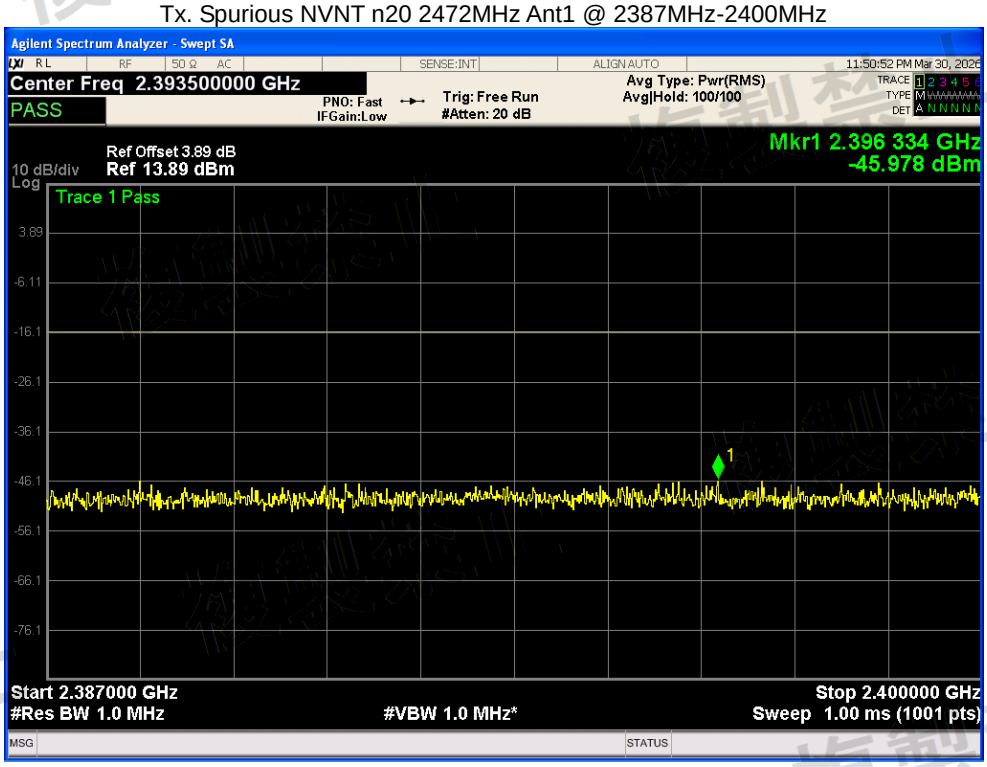
Tx. Spurious NVNT n20 2472MHz Ant1 @ 30MHz-1000MHz



Tx. Spurious NVNT n20 2472MHz Ant1 @ 1000MHz-2387MHz

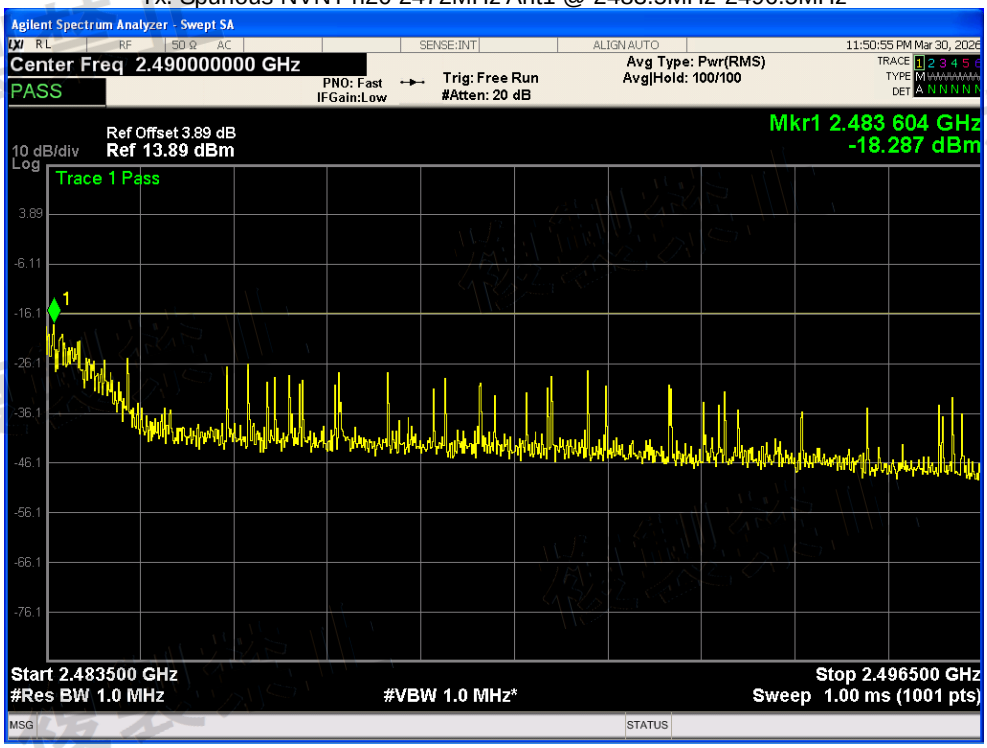


Tx. Spurious NVNT n20 2472MHz Ant1 @ 2387MHz-2400MHz

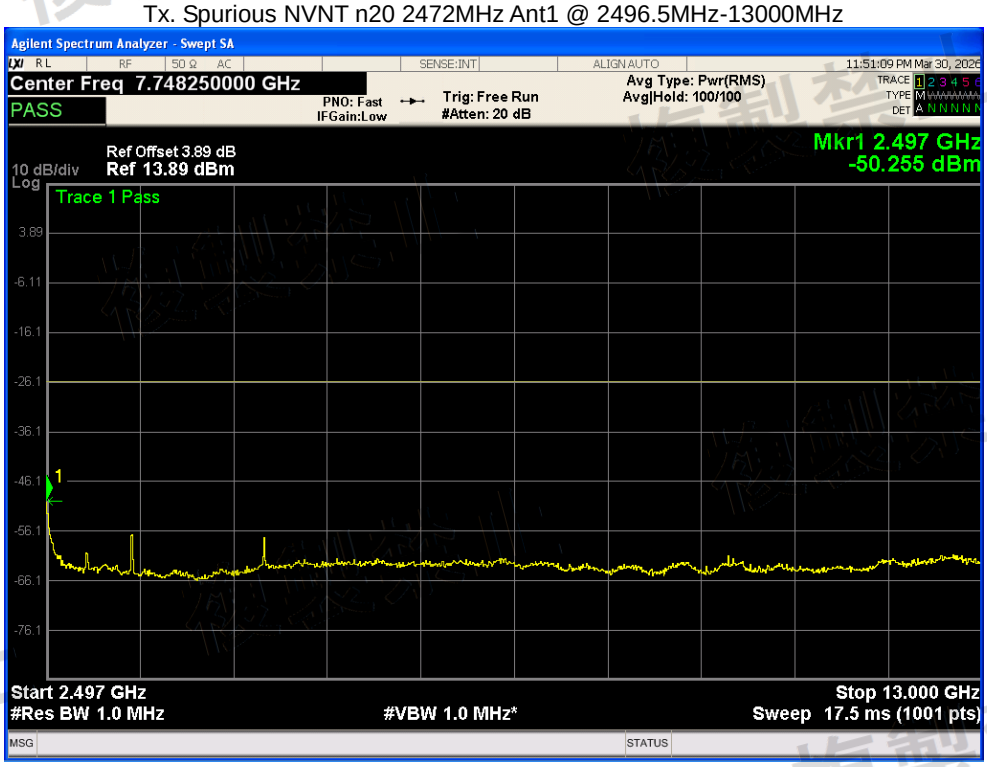


複製禁止

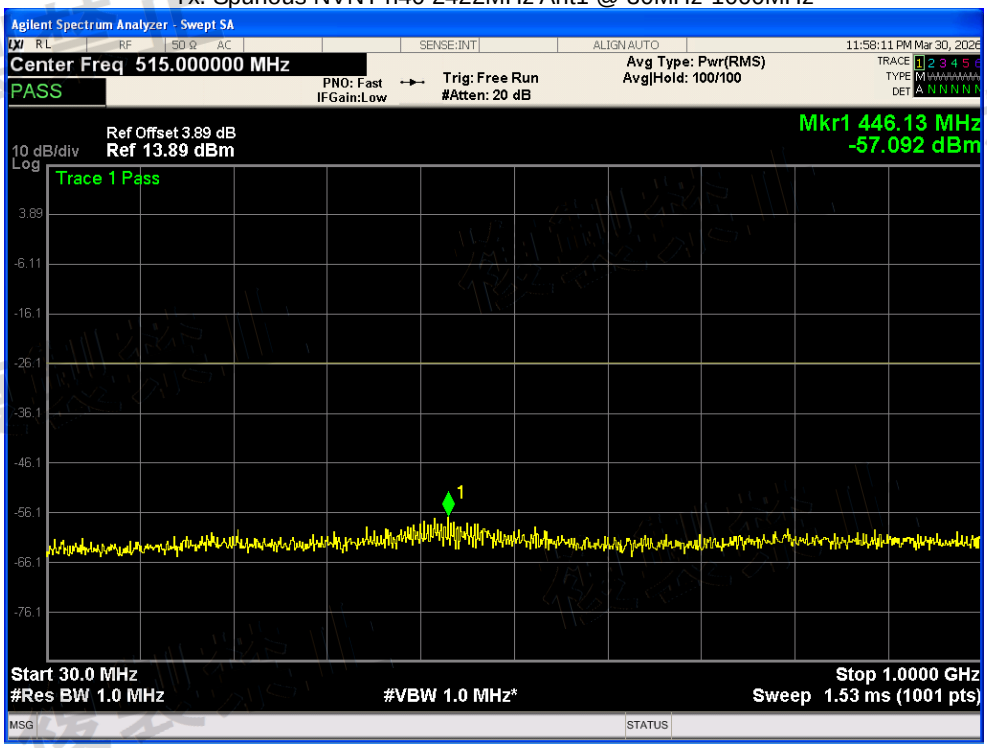
Tx. Spurious NVNT n20 2472MHz Ant1 @ 2483.5MHz-2496.5MHz



Tx. Spurious NVNT n20 2472MHz Ant1 @ 2496.5MHz-13000MHz

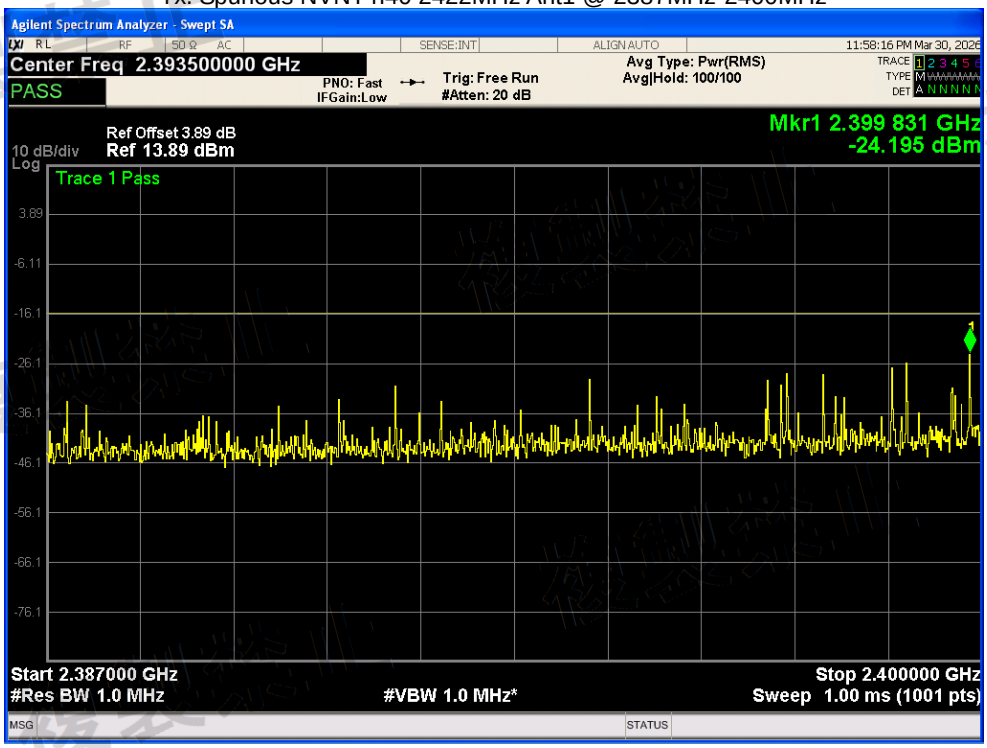


Tx. Spurious NVNT n40 2422MHz Ant1 @ 30MHz-1000MHz

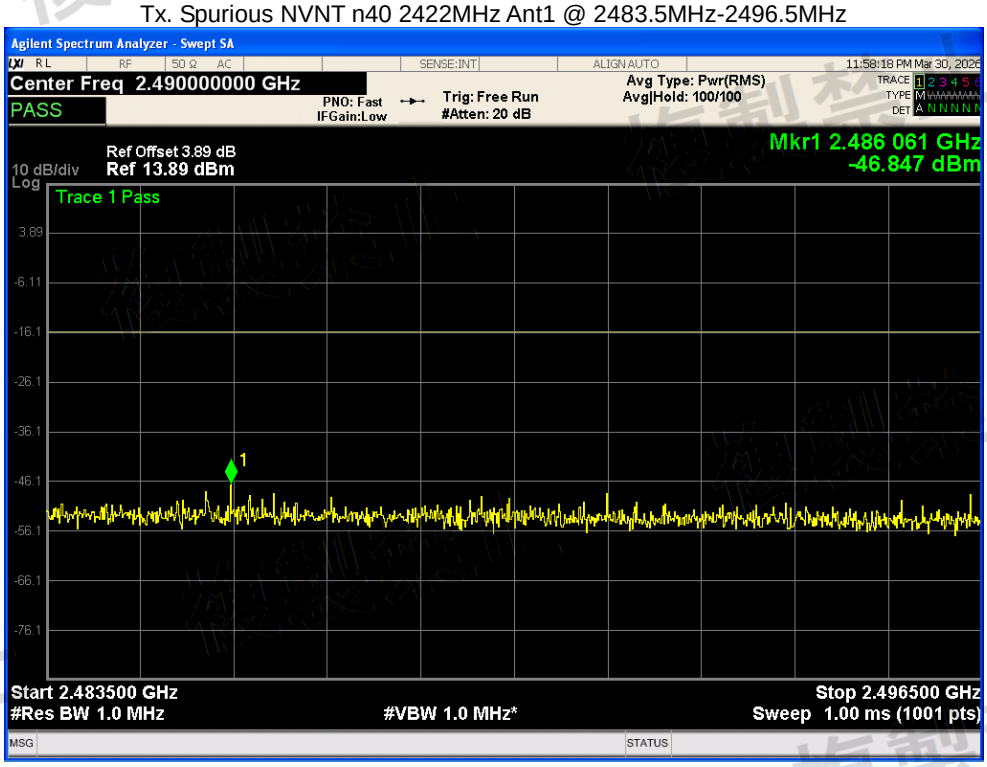


Tx. Spurious NVNT n40 2422MHz Ant1 @ 1000MHz-2387MHz

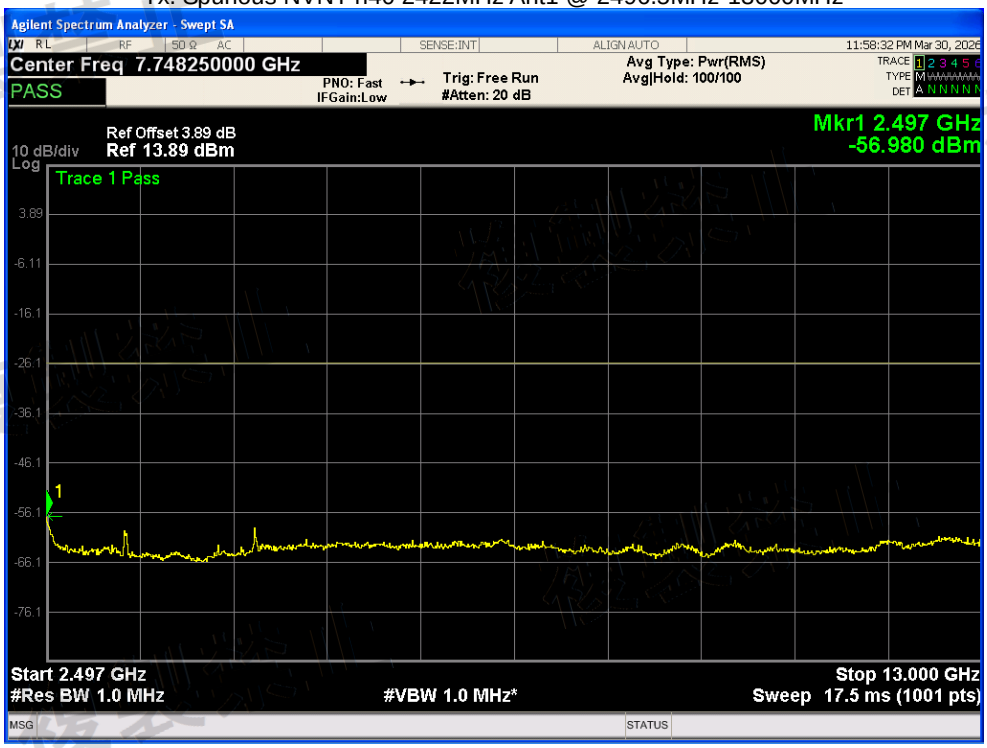
Tx. Spurious NVNT n40 2422MHz Ant1 @ 2387MHz-2400MHz



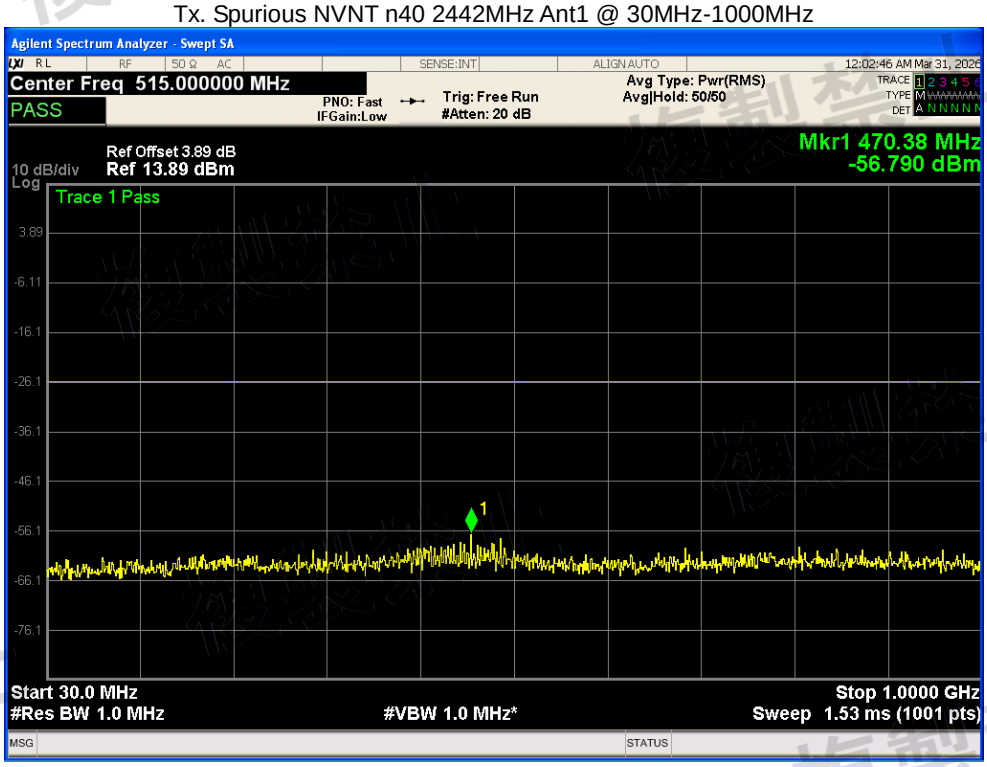
Tx. Spurious NVNT n40 2422MHz Ant1 @ 2483.5MHz-2496.5MHz



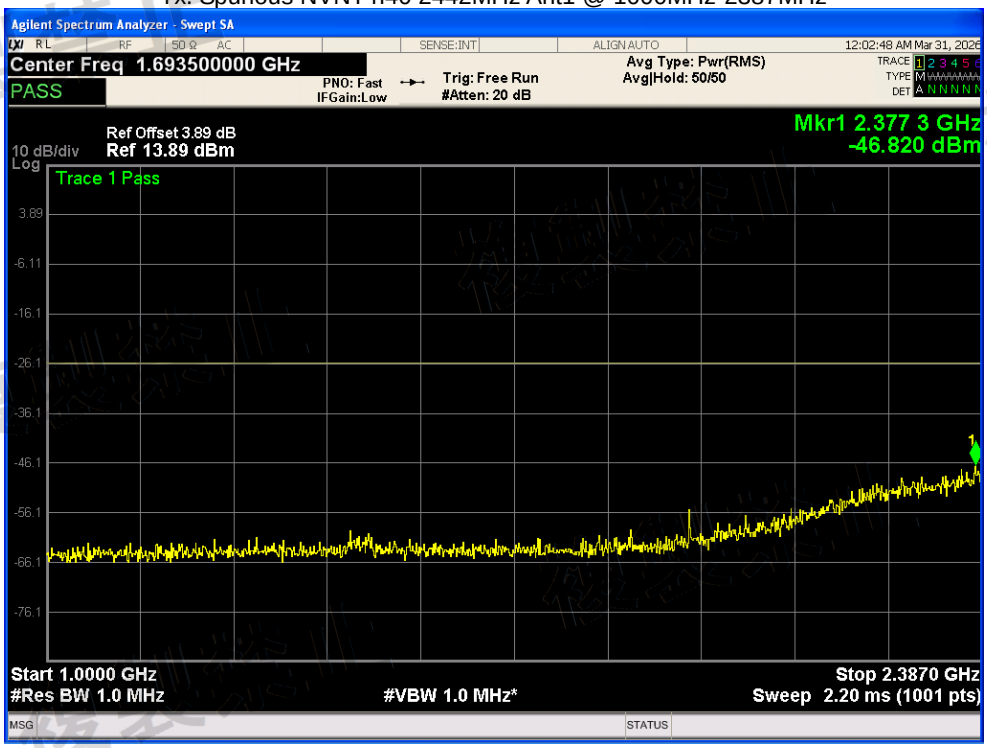
Tx. Spurious NVNT n40 2422MHz Ant1 @ 2496.5MHz-13000MHz



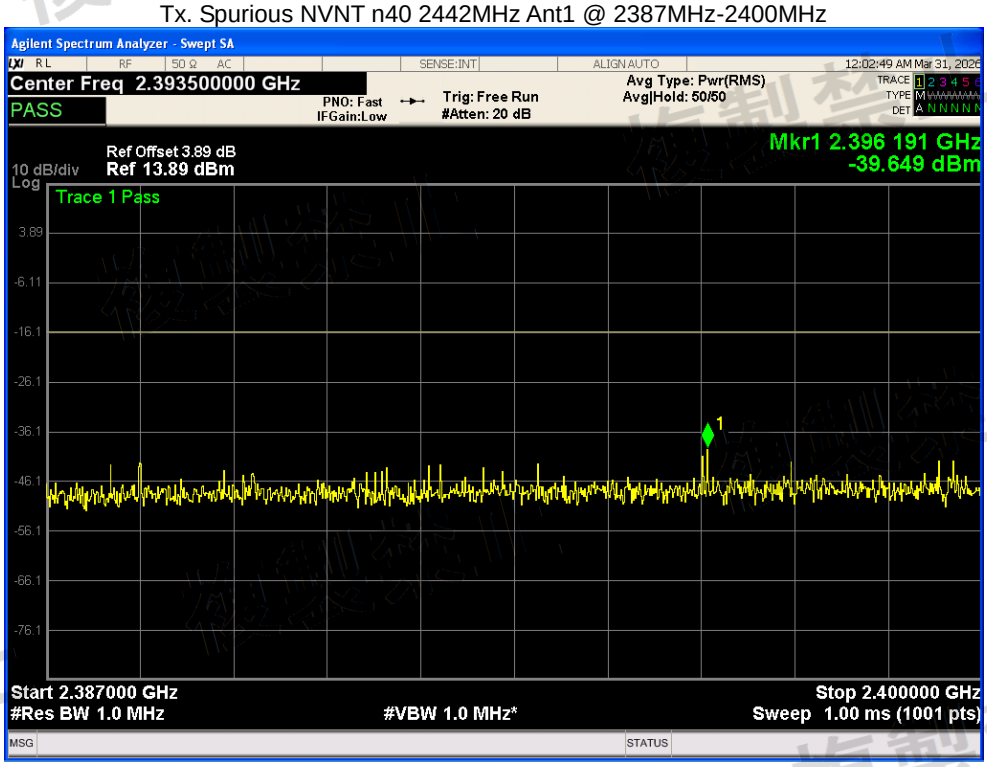
Tx. Spurious NVNT n40 2442MHz Ant1 @ 30MHz-1000MHz



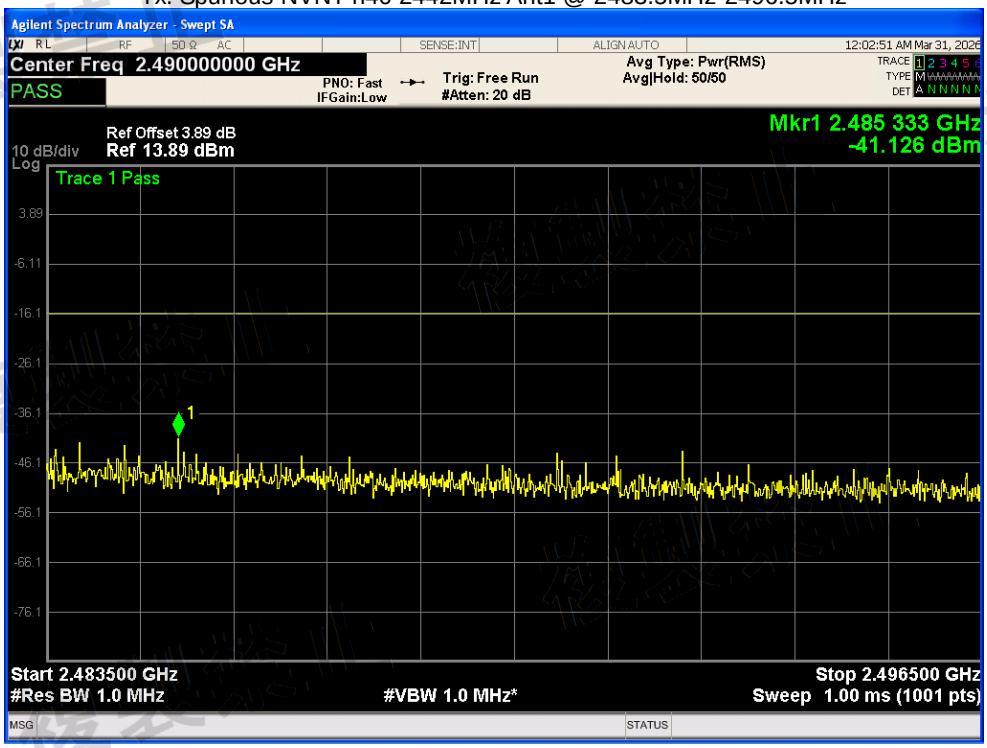
Tx. Spurious NVNT n40 2442MHz Ant1 @ 1000MHz-2387MHz



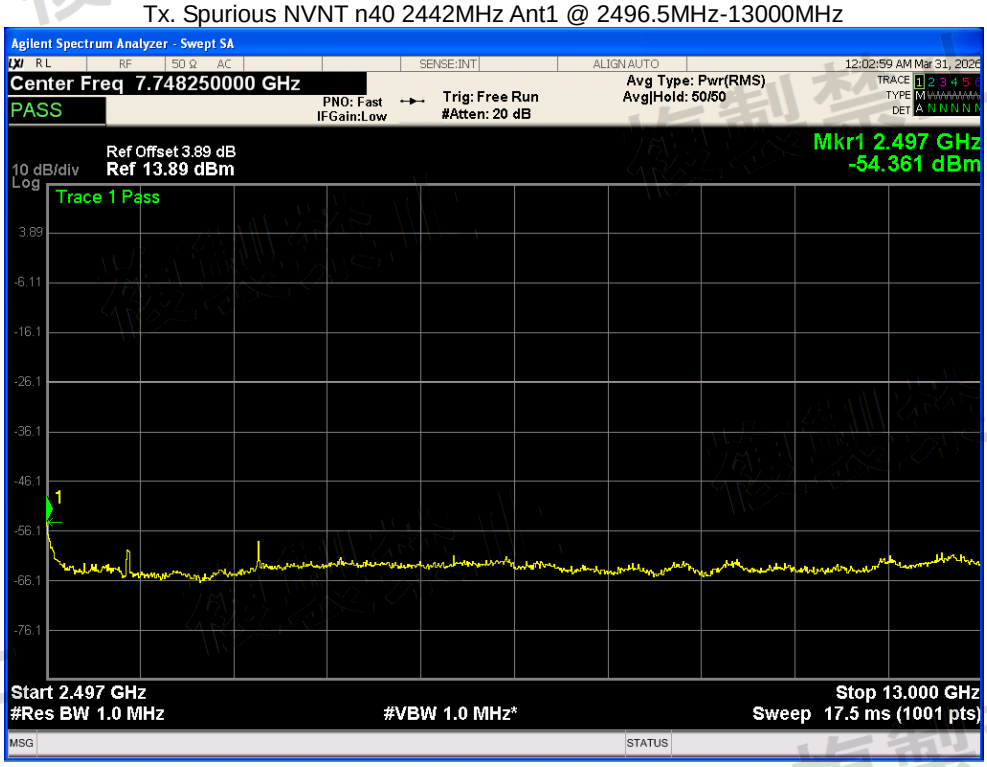
Tx. Spurious NVNT n40 2442MHz Ant1 @ 2387MHz-2400MHz



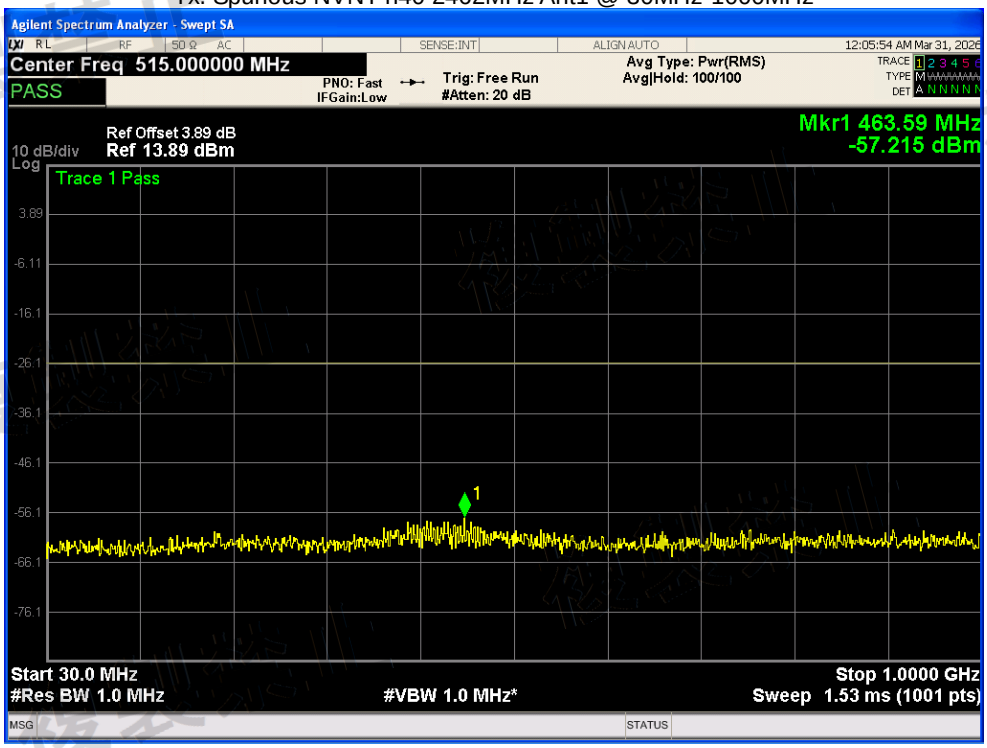
Tx. Spurious NVNT n40 2442MHz Ant1 @ 2483.5MHz-2496.5MHz



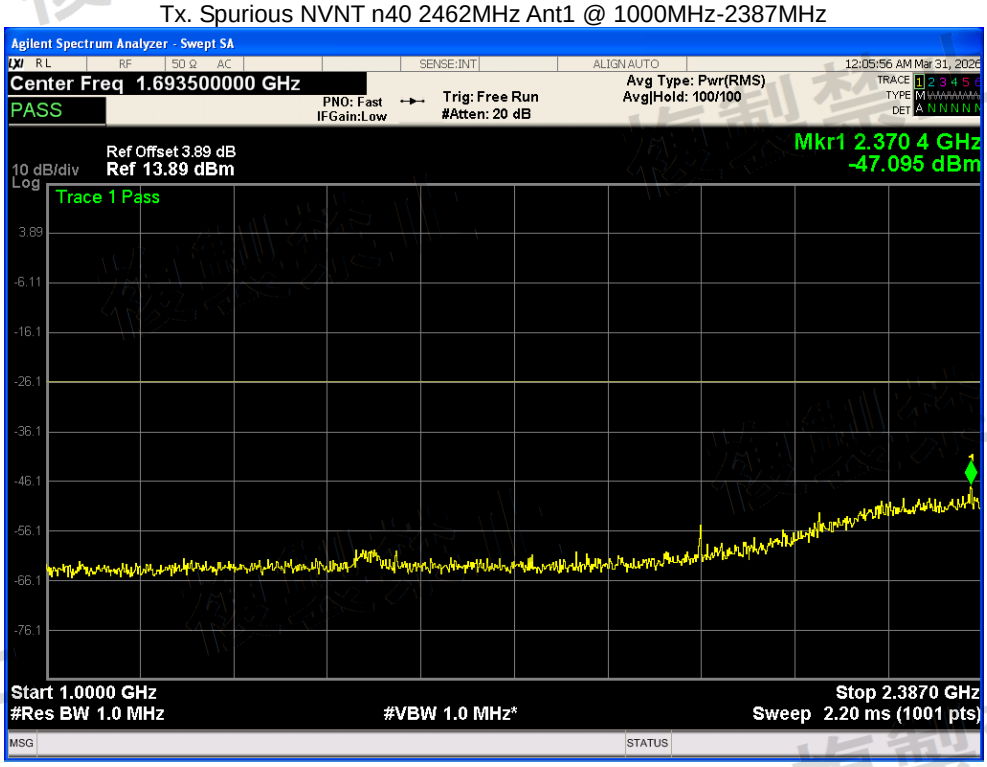
Tx. Spurious NVNT n40 2442MHz Ant1 @ 2496.5MHz-13000MHz



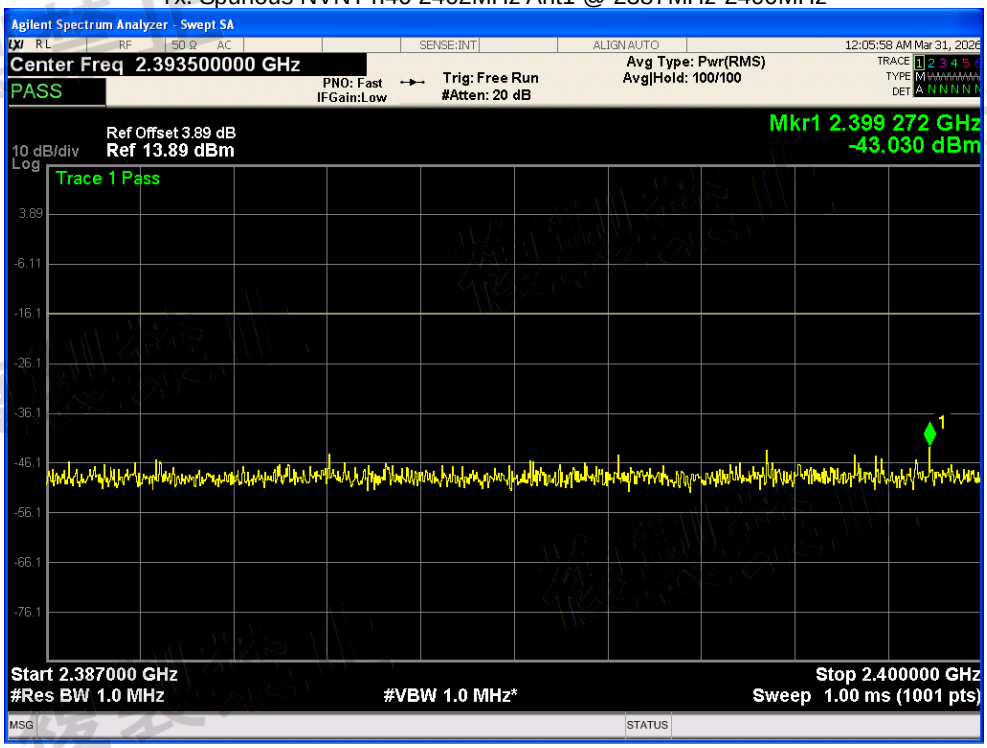
Tx. Spurious NVNT n40 2462MHz Ant1 @ 30MHz-1000MHz



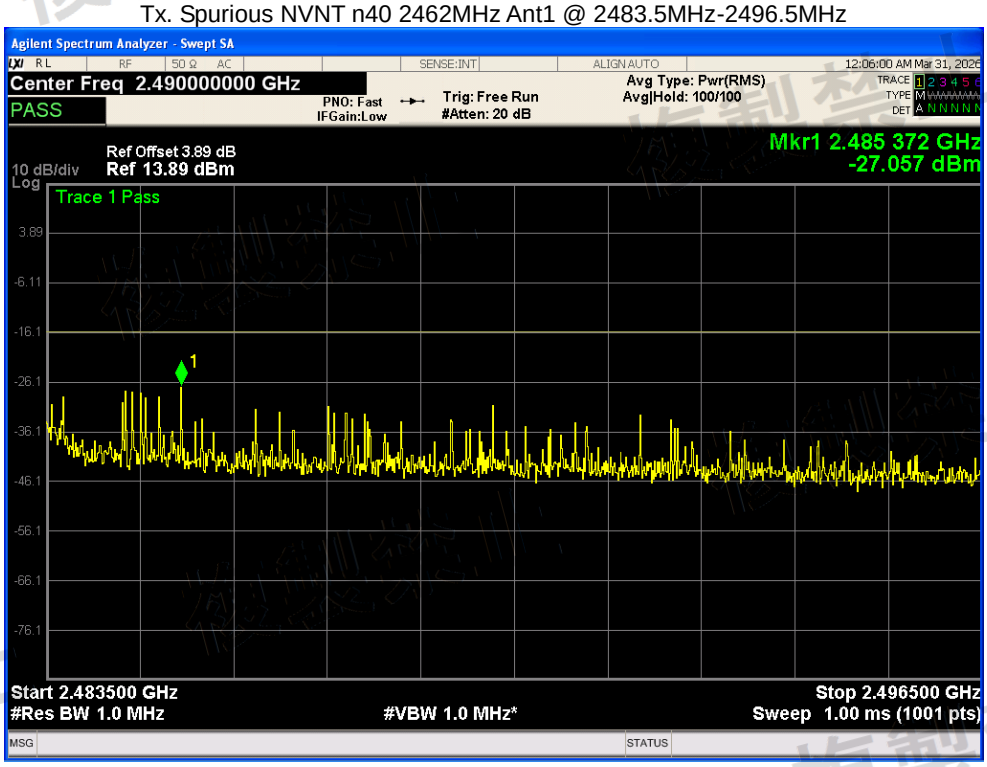
Tx. Spurious NVNT n40 2462MHz Ant1 @ 1000MHz-2387MHz



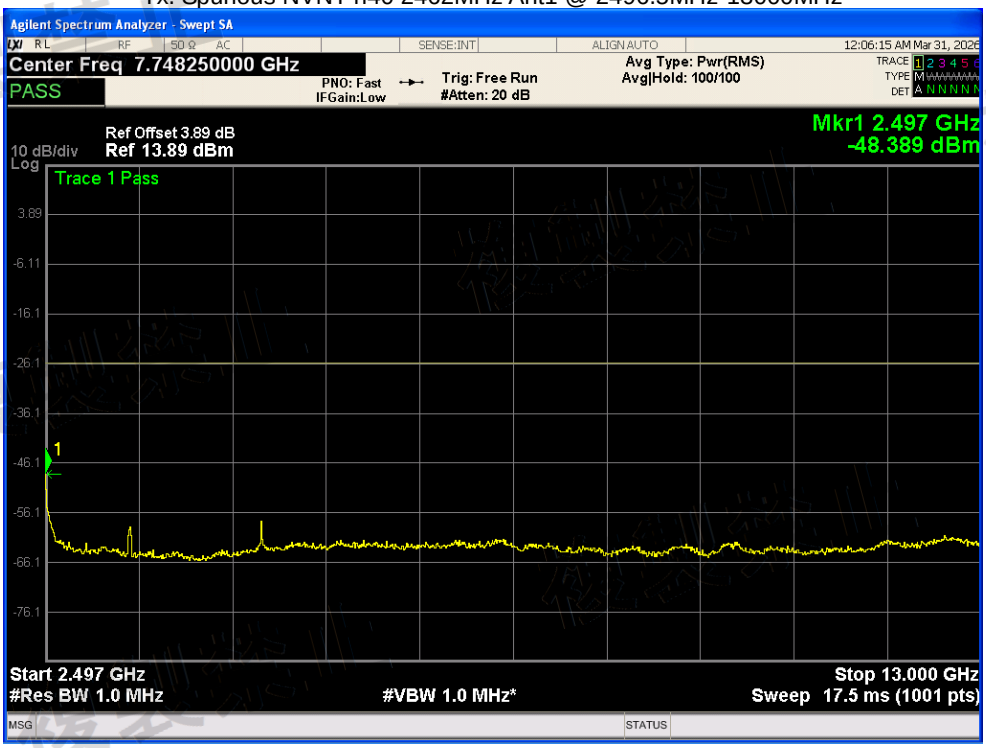
Tx. Spurious NVNT n40 2462MHz Ant1 @ 2387MHz-2400MHz



Tx. Spurious NVNT n40 2462MHz Ant1 @ 2483.5MHz-2496.5MHz



Tx. Spurious NVNT n40 2462MHz Ant1 @ 2496.5MHz-13000MHz

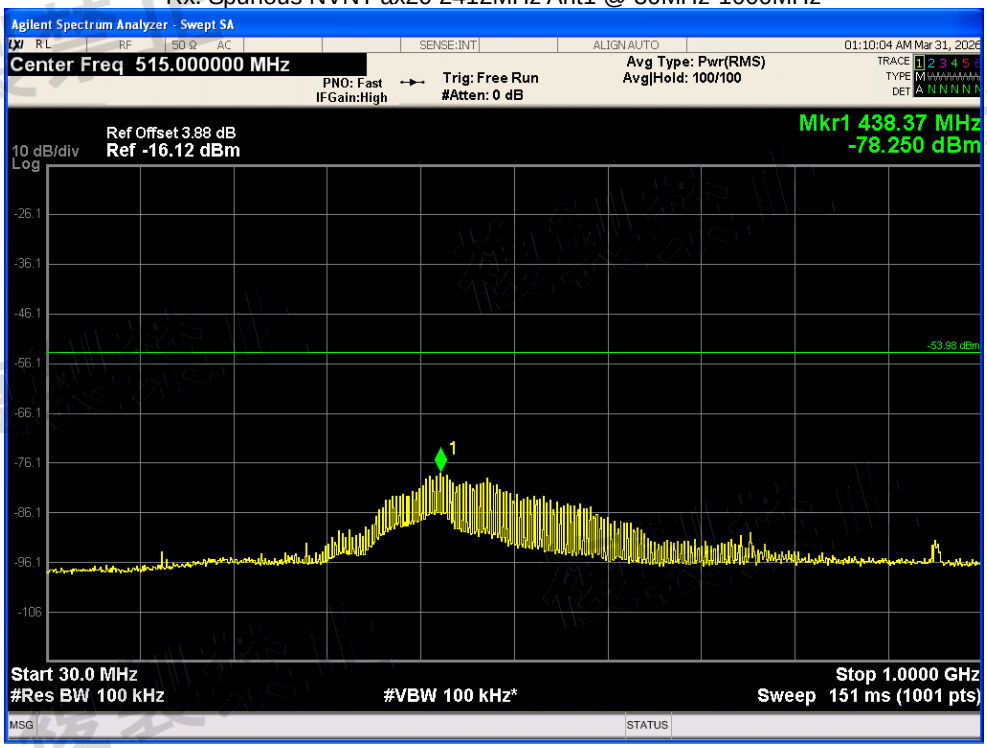


12.5 RX SPURIOUS EMISSION

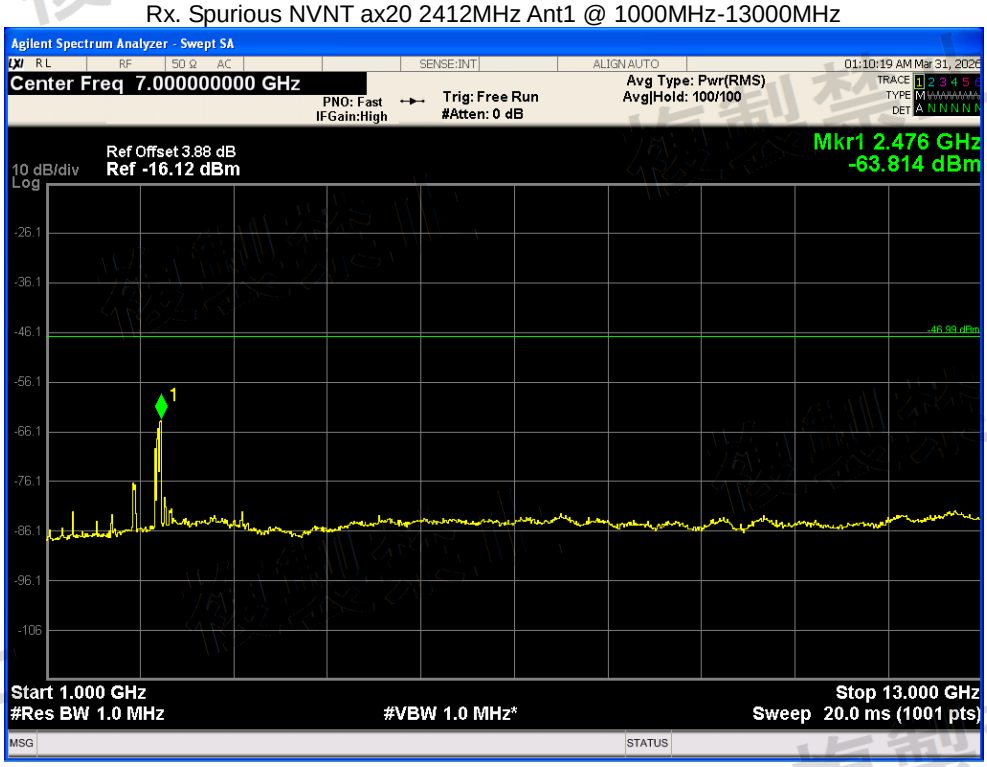
Condition	Mode	Frequency (MHz)	Antenna	Range (MHz)	Emission Frequency (MHz)	Max Value (dBm)	Max Value (nW)	Limit (nW)	Verdict
NVNT	ax20	2412	Ant1	30-1000	438.37	-78.25	0.015	4	Pass
NVNT	ax20	2412	Ant1	1000-13000	2476	-63.81	0.4159	20	Pass
NVNT	ax20	2442	Ant1	30-1000	434.49	-78.12	0.0154	4	Pass
NVNT	ax20	2442	Ant1	1000-13000	2440	-60.95	0.8035	20	Pass
NVNT	ax20	2472	Ant1	30-1000	438.37	-77.8	0.0166	4	Pass
NVNT	ax20	2472	Ant1	1000-13000	2404	-68.09	0.1552	20	Pass
NVNT	ax40	2422	Ant1	30-1000	427.7	-78.52	0.0141	4	Pass
NVNT	ax40	2422	Ant1	1000-13000	2452	-64.75	0.335	20	Pass
NVNT	ax40	2442	Ant1	30-1000	434.49	-77.71	0.0169	4	Pass
NVNT	ax40	2442	Ant1	1000-13000	2464	-63.93	0.4046	20	Pass
NVNT	ax40	2462	Ant1	30-1000	427.7	-83.72	0.0042	4	Pass
NVNT	ax40	2462	Ant1	1000-13000	1348	-85.39	0.0029	20	Pass
NVNT	b	2412	Ant1	30-1000	437.4	-77.94	0.0161	4	Pass
NVNT	b	2412	Ant1	1000-13000	2464	-64.51	0.354	20	Pass
NVNT	b	2442	Ant1	30-1000	437.4	-77.75	0.0168	4	Pass
NVNT	b	2442	Ant1	1000-13000	2464	-65.17	0.3041	20	Pass
NVNT	b	2472	Ant1	30-1000	441.28	-78.35	0.0146	4	Pass
NVNT	b	2472	Ant1	1000-13000	2452	-59.77	1.0544	20	Pass
NVNT	g	2412	Ant1	30-1000	441.28	-78.45	0.0143	4	Pass
NVNT	g	2412	Ant1	1000-13000	2464	-64.04	0.3945	20	Pass
NVNT	g	2442	Ant1	30-1000	441.28	-78.47	0.0142	4	Pass
NVNT	g	2442	Ant1	1000-13000	2476	-63.84	0.413	20	Pass
NVNT	g	2472	Ant1	30-1000	434.49	-78.11	0.0155	4	Pass
NVNT	g	2472	Ant1	1000-13000	2476	-65.11	0.3083	20	Pass
NVNT	n20	2412	Ant1	30-1000	441.28	-78.4	0.0145	4	Pass
NVNT	n20	2412	Ant1	1000-13000	2428	-70.97	0.08	20	Pass
NVNT	n20	2442	Ant1	30-1000	445.16	-78.57	0.0139	4	Pass
NVNT	n20	2442	Ant1	1000-13000	2464	-73.79	0.0418	20	Pass
NVNT	n20	2472	Ant1	30-1000	430.61	-78.02	0.0158	4	Pass
NVNT	n20	2472	Ant1	1000-13000	2440	-57.73	1.6866	20	Pass
NVNT	n40	2422	Ant1	30-1000	445.16	-78.59	0.0138	4	Pass
NVNT	n40	2422	Ant1	1000-13000	2428	-61.85	0.6531	20	Pass
NVNT	n40	2442	Ant1	30-1000	438.37	-78.18	0.0152	4	Pass
NVNT	n40	2442	Ant1	1000-13000	2476	-68.74	0.1337	20	Pass
NVNT	n40	2462	Ant1	30-1000	430.61	-77.98	0.0159	4	Pass
NVNT	n40	2462	Ant1	1000-13000	2476	-65.19	0.3027	20	Pass

複製禁止

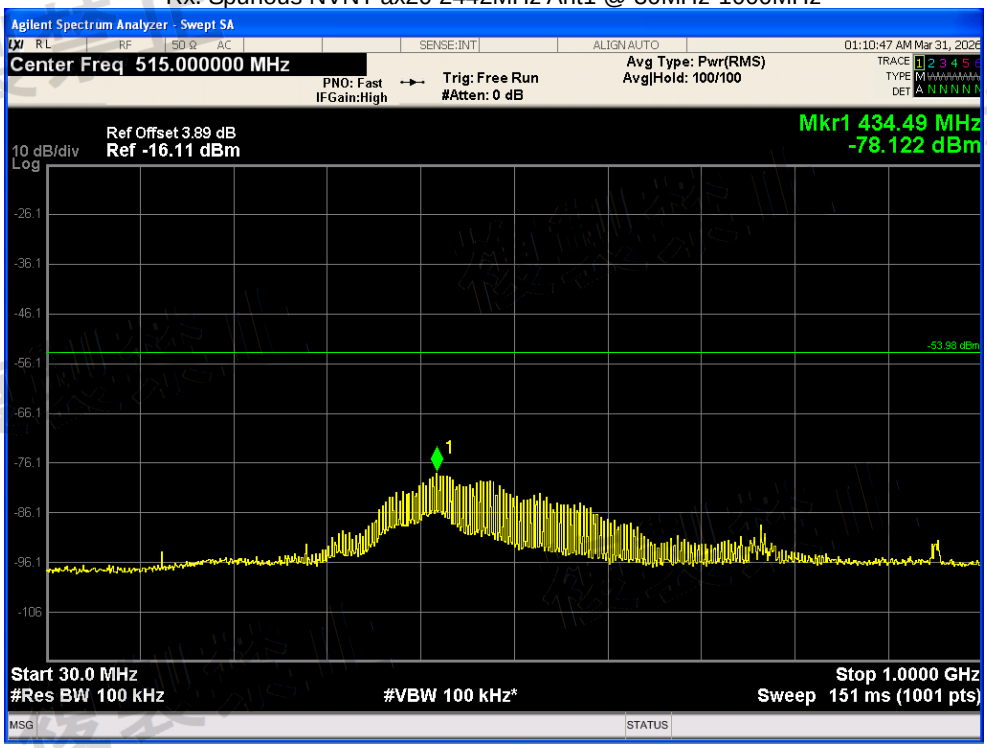
Rx. Spurious NVNT ax20 2412MHz Ant1 @ 30MHz-1000MHz



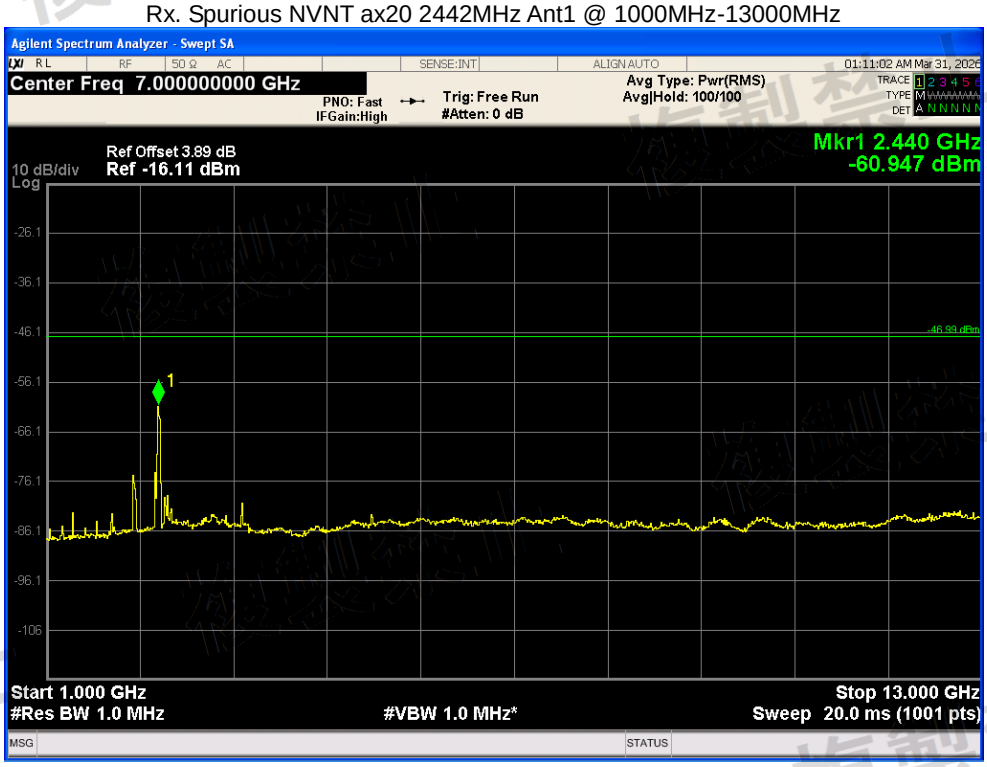
Rx. Spurious NVNT ax20 2412MHz Ant1 @ 1000MHz-13000MHz



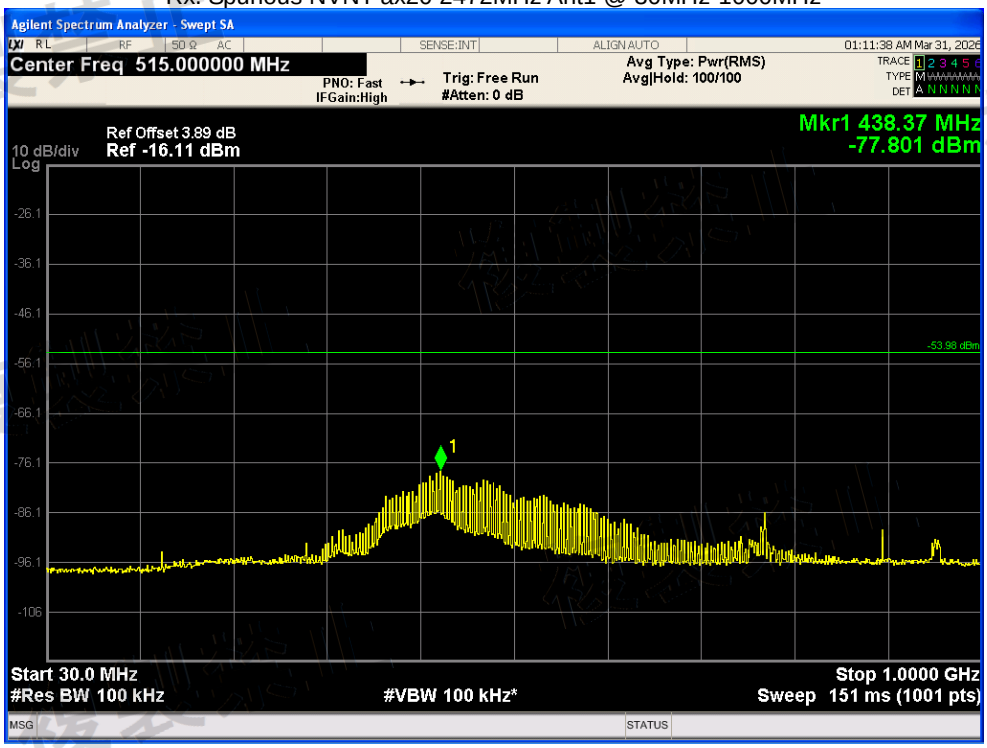
Rx. Spurious NVNT ax20 2442MHz Ant1 @ 30MHz-1000MHz



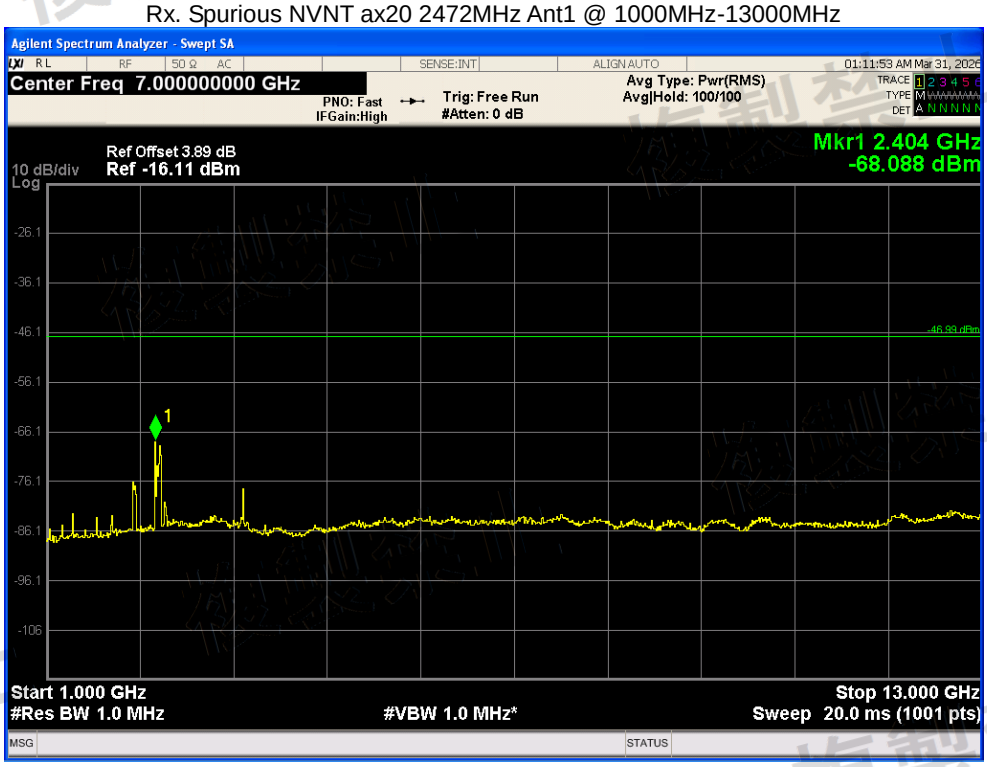
Rx. Spurious NVNT ax20 2442MHz Ant1 @ 1000MHz-13000MHz



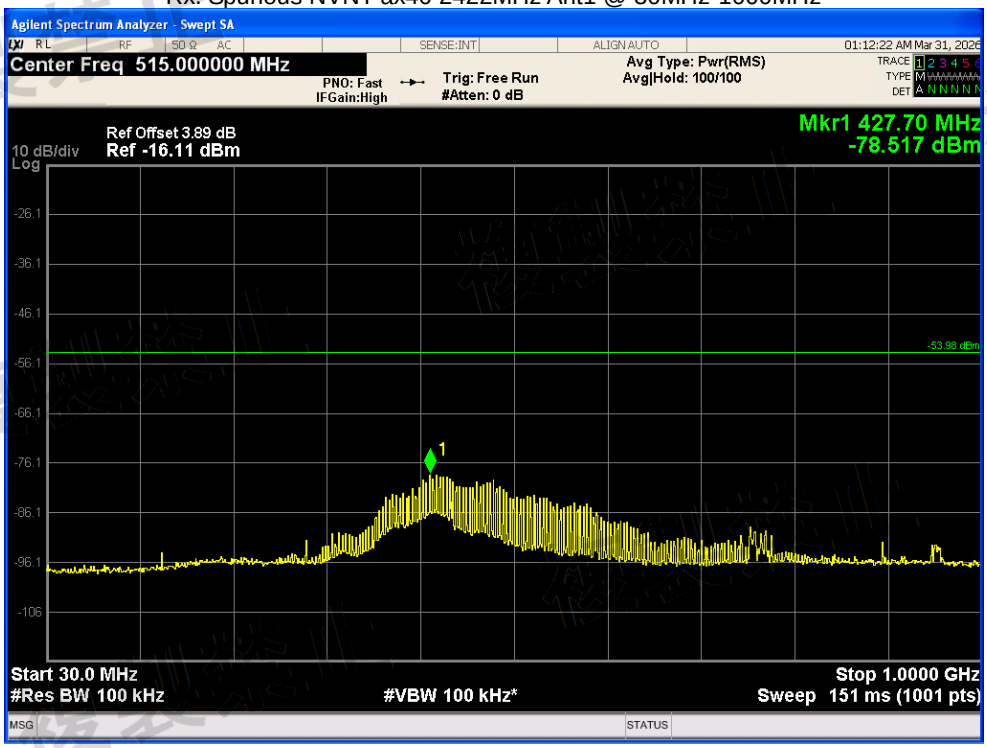
Rx. Spurious NVNT ax20 2472MHz Ant1 @ 30MHz-1000MHz



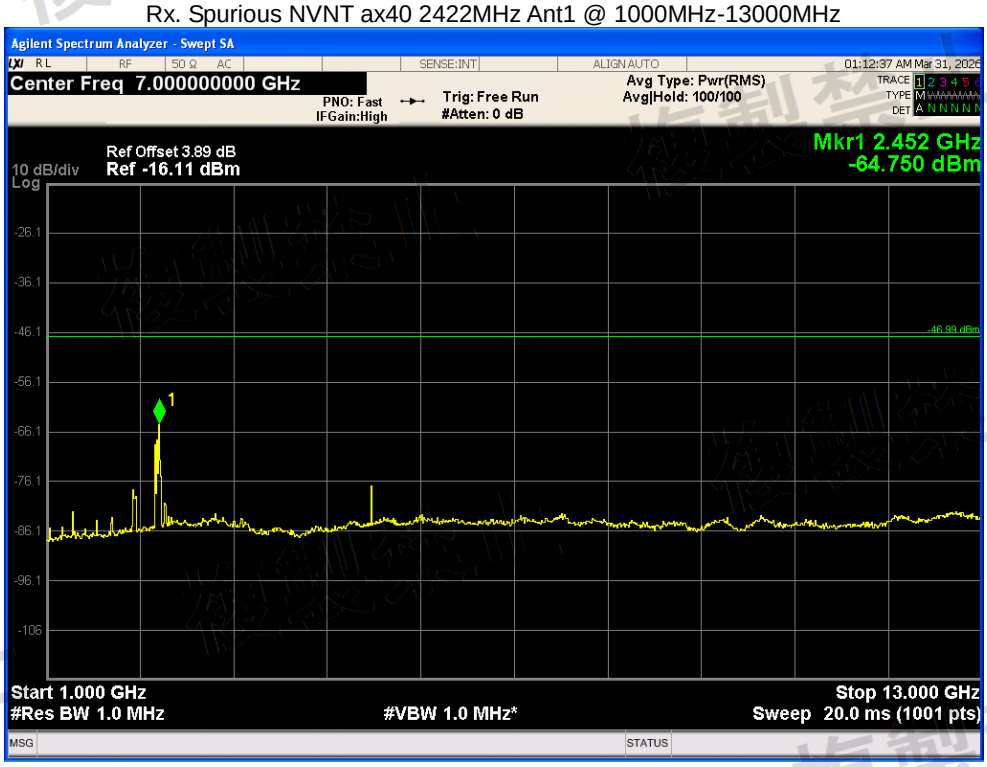
Rx. Spurious NVNT ax20 2472MHz Ant1 @ 1000MHz-13000MHz



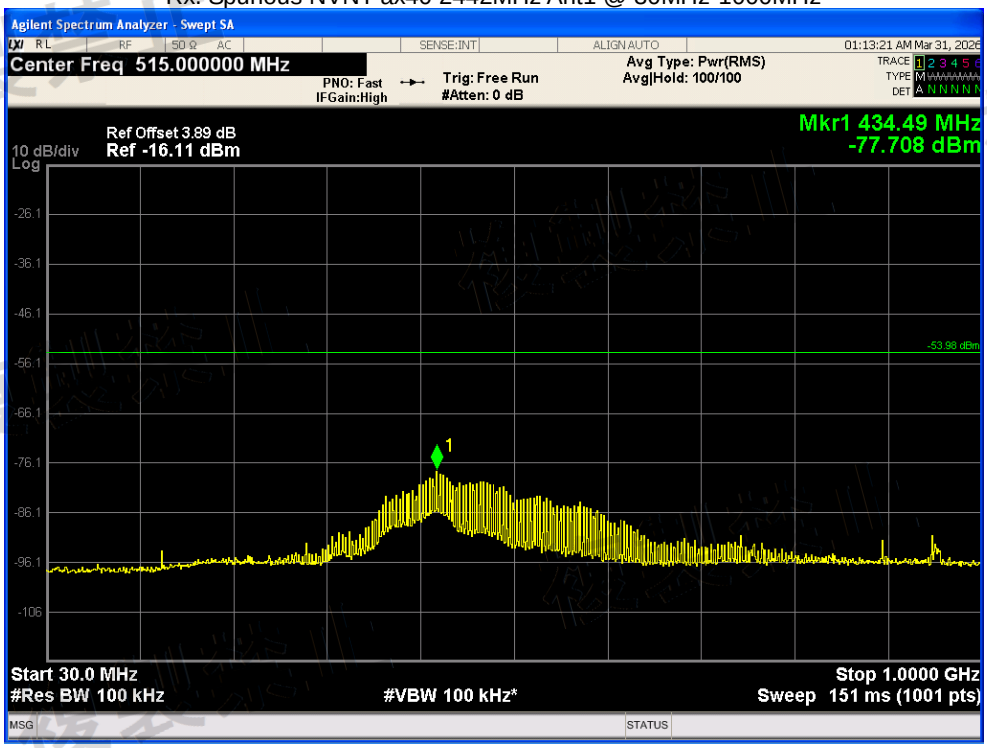
Rx. Spurious NVNT ax40 2422MHz Ant1 @ 30MHz-1000MHz



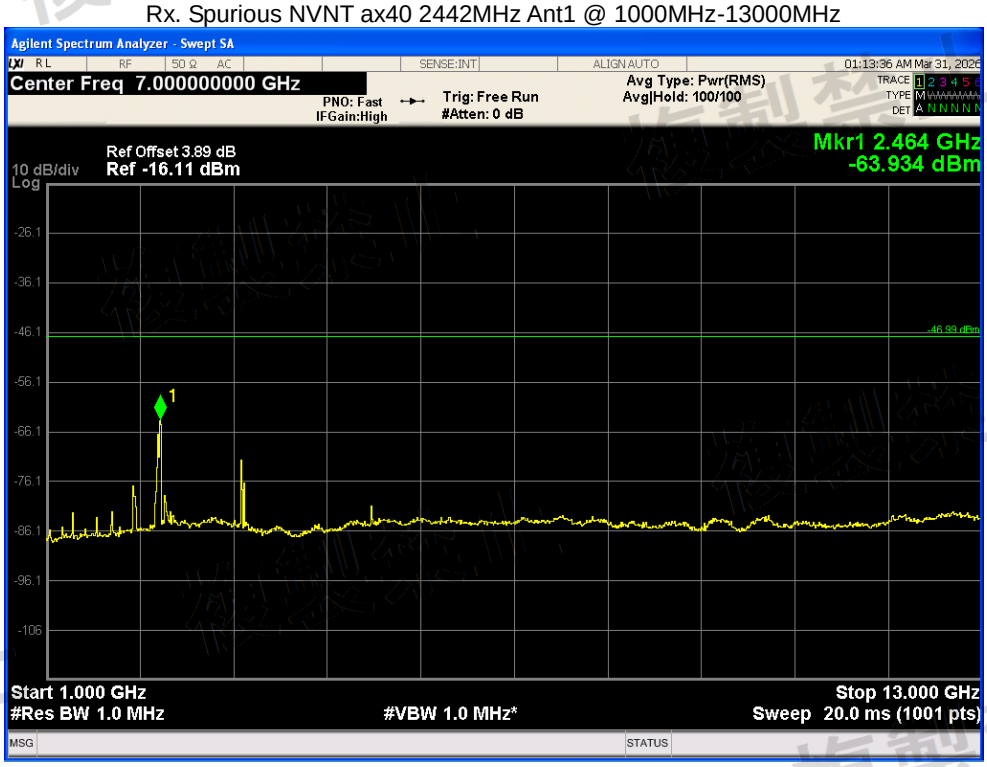
Rx. Spurious NVNT ax40 2422MHz Ant1 @ 1000MHz-13000MHz



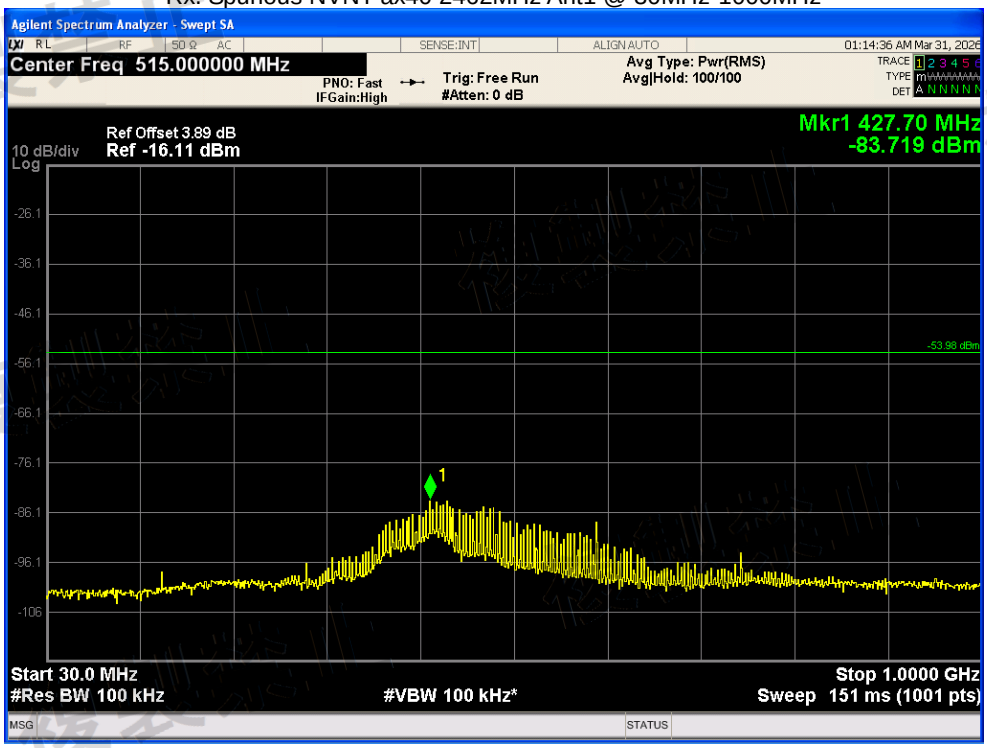
Rx. Spurious NVNT ax40 2442MHz Ant1 @ 30MHz-1000MHz



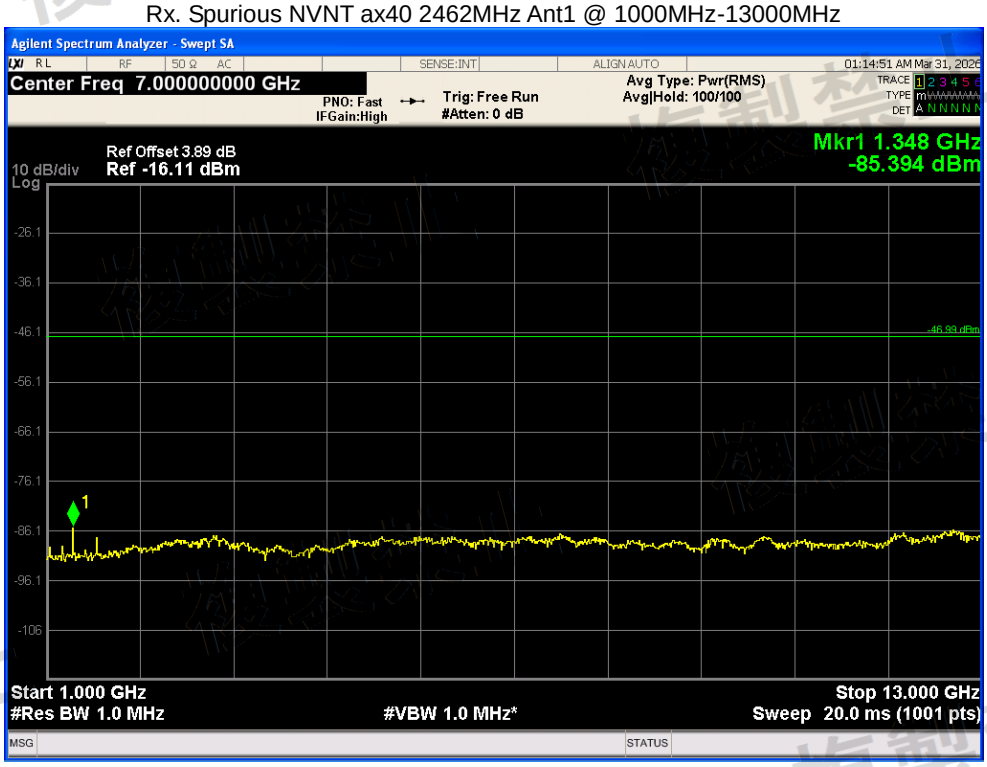
Rx. Spurious NVNT ax40 2442MHz Ant1 @ 1000MHz-13000MHz



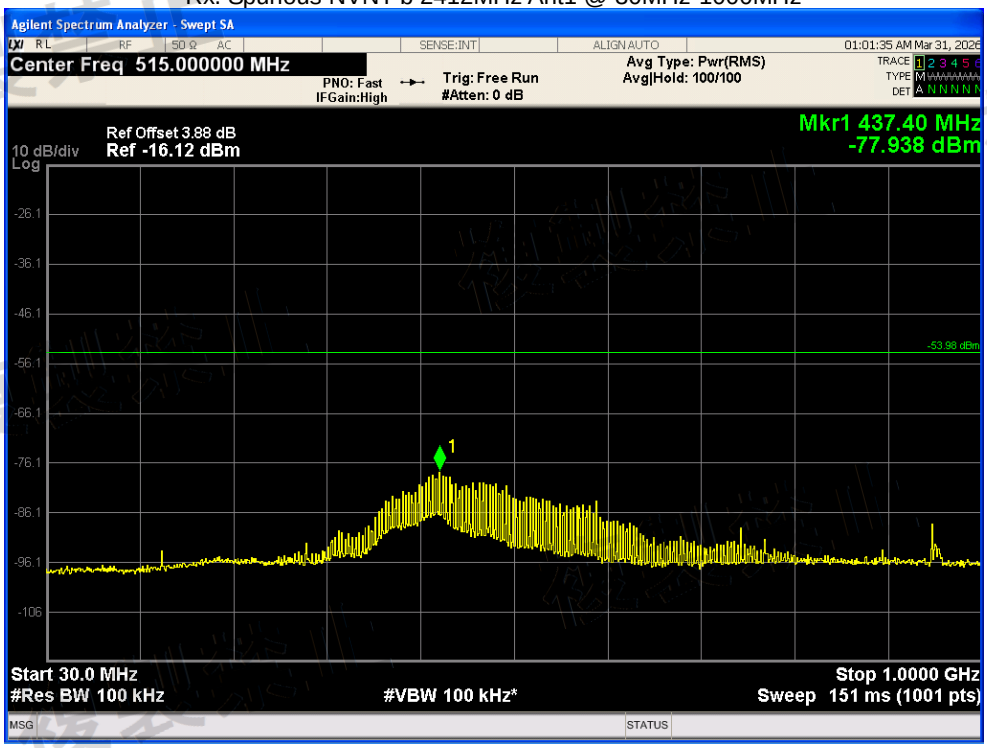
Rx. Spurious NVNT ax40 2462MHz Ant1 @ 30MHz-1000MHz



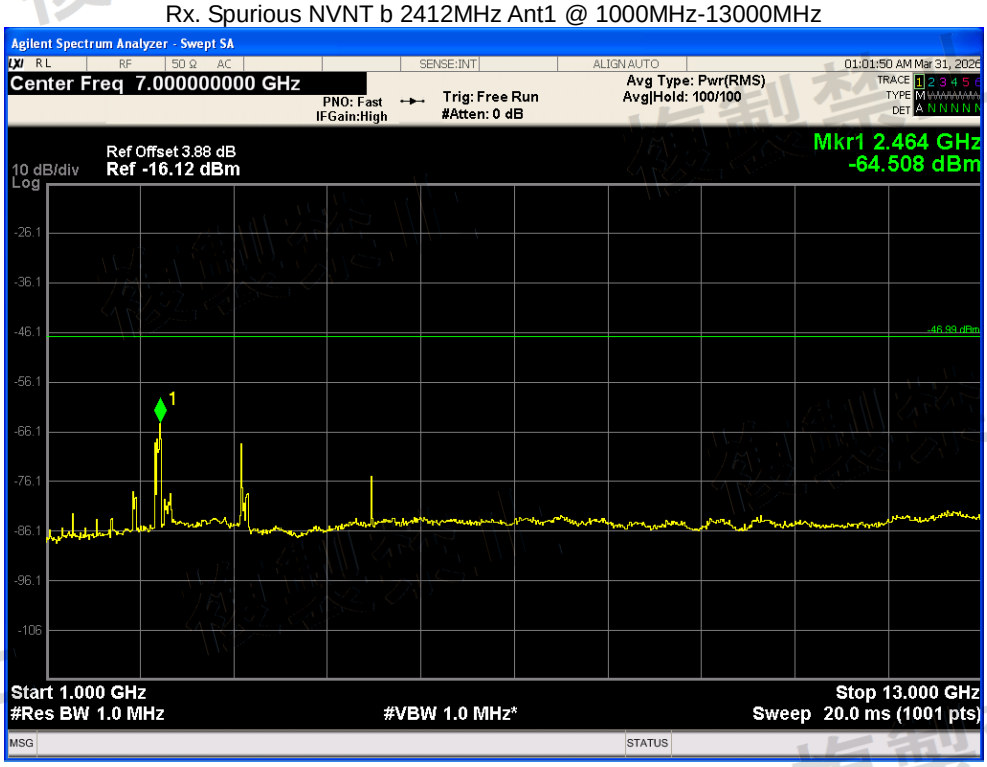
Rx. Spurious NVNT ax40 2462MHz Ant1 @ 1000MHz-13000MHz



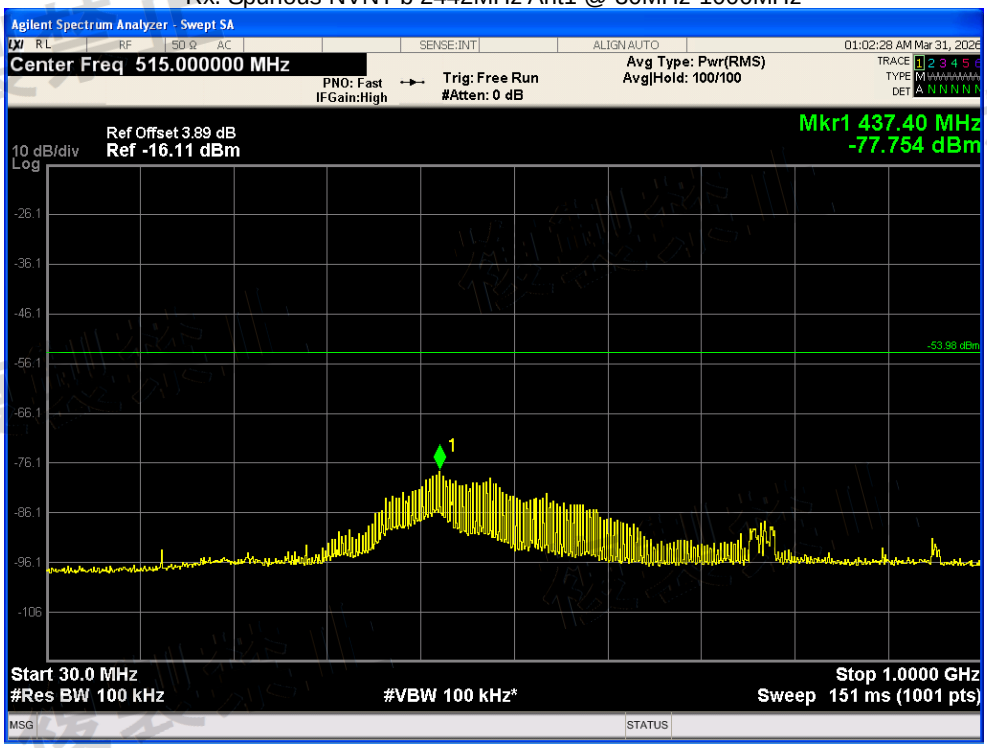
Rx. Spurious NVNT b 2412MHz Ant1 @ 30MHz-1000MHz



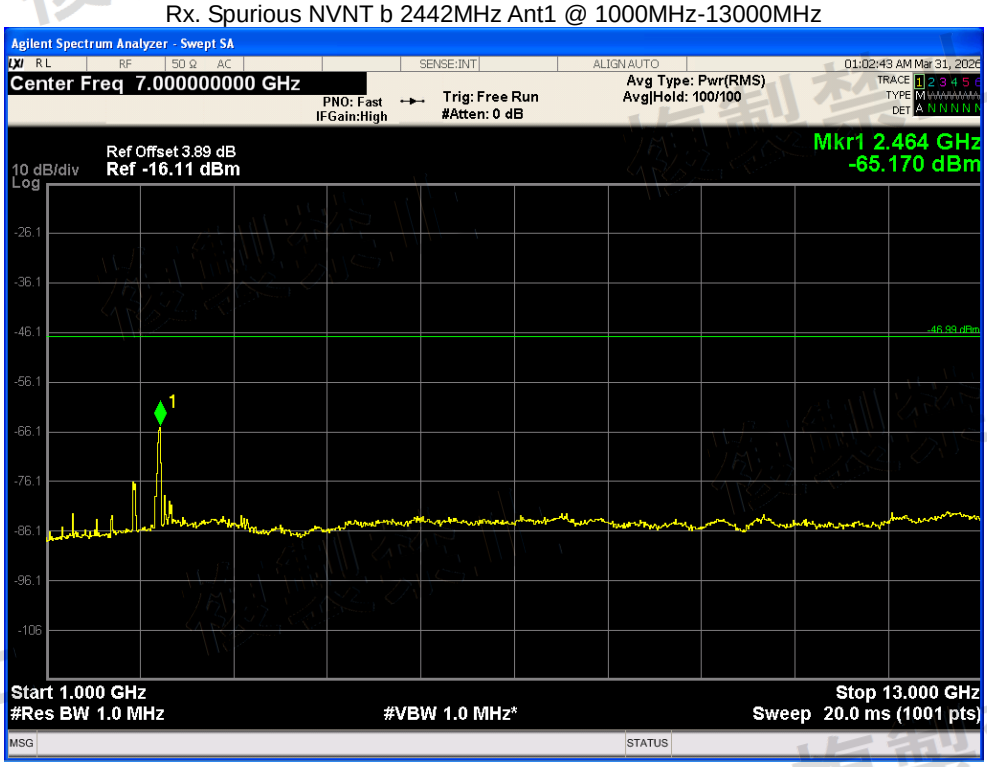
Rx. Spurious NVNT b 2412MHz Ant1 @ 1000MHz-13000MHz



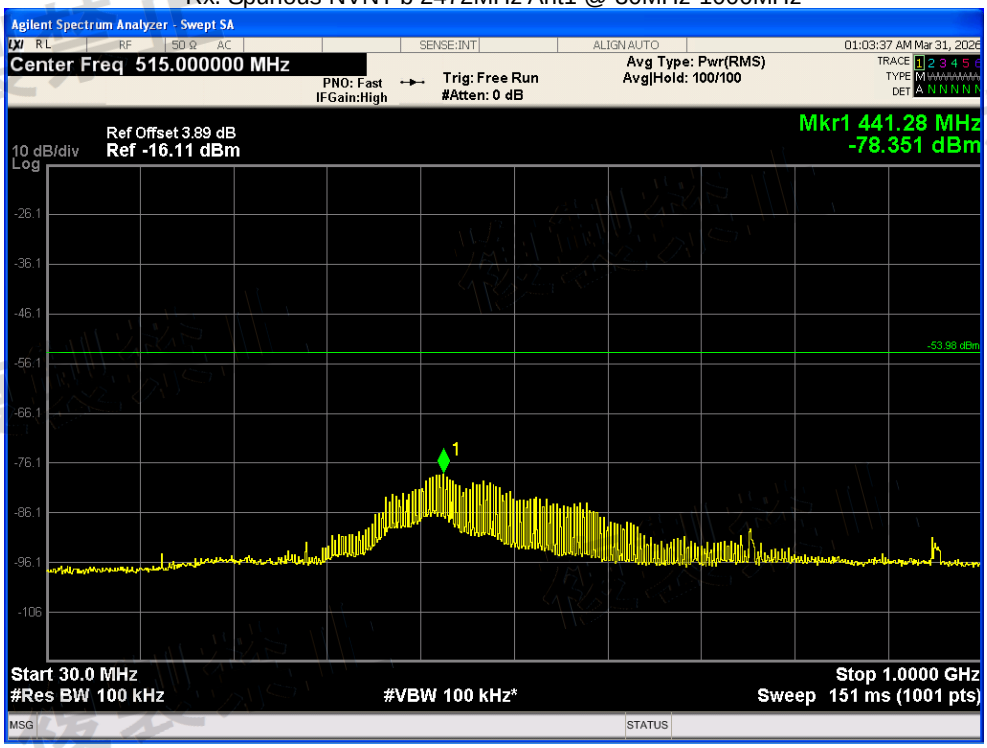
Rx. Spurious NVNT b 2442MHz Ant1 @ 30MHz-1000MHz



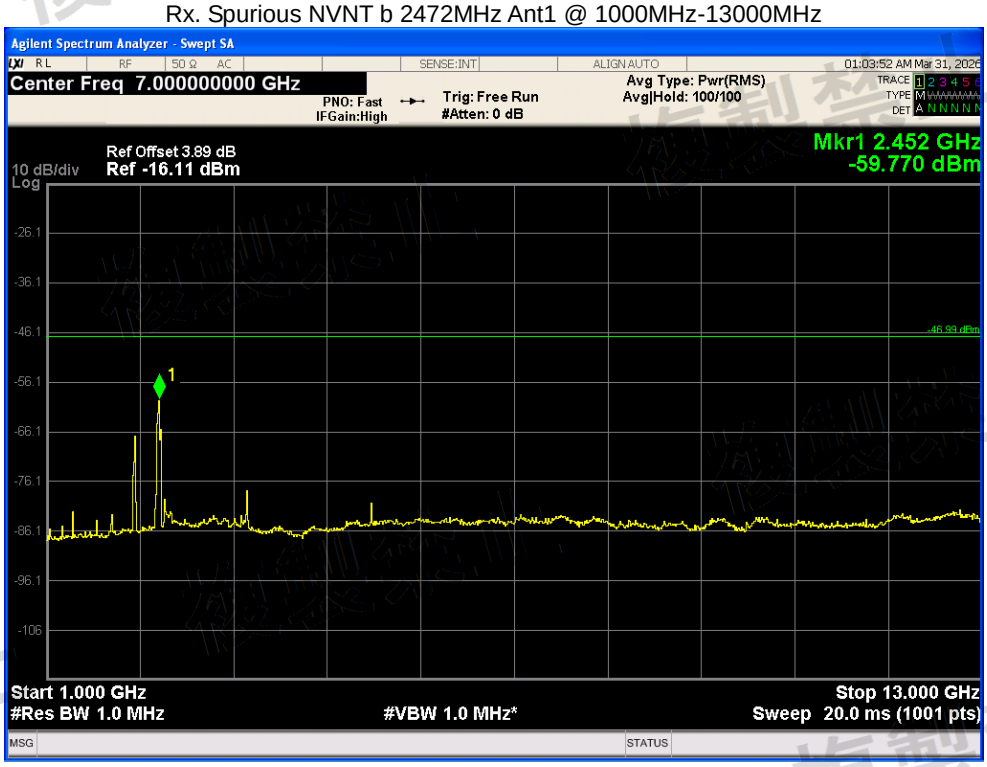
Rx. Spurious NVNT b 2442MHz Ant1 @ 1000MHz-13000MHz



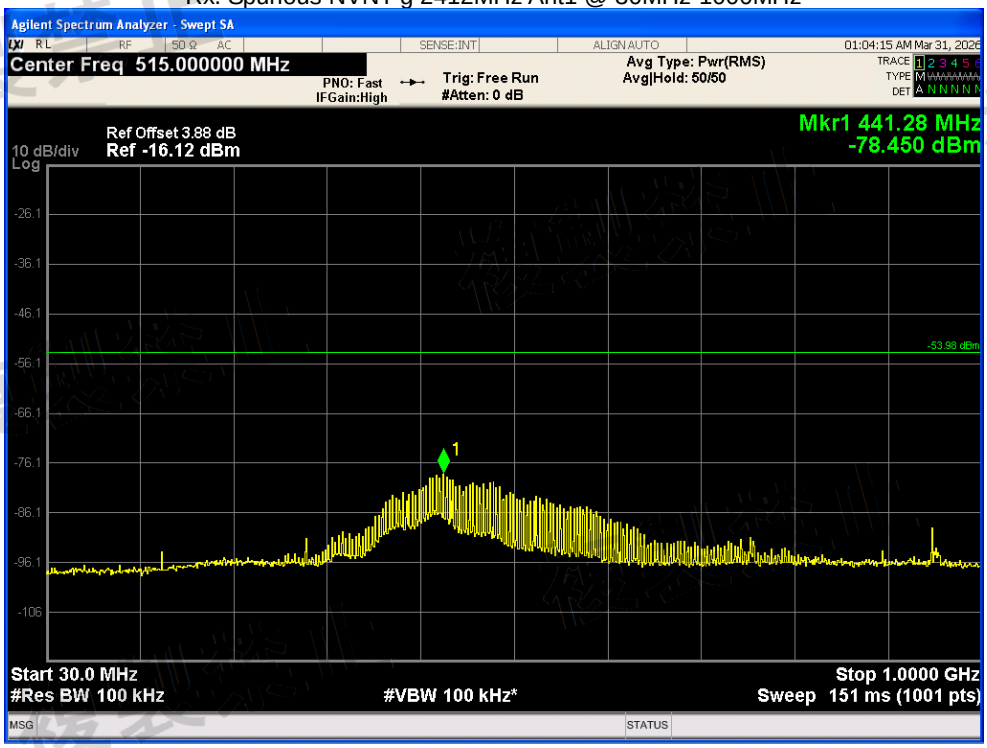
Rx. Spurious NVNT b 2472MHz Ant1 @ 30MHz-1000MHz



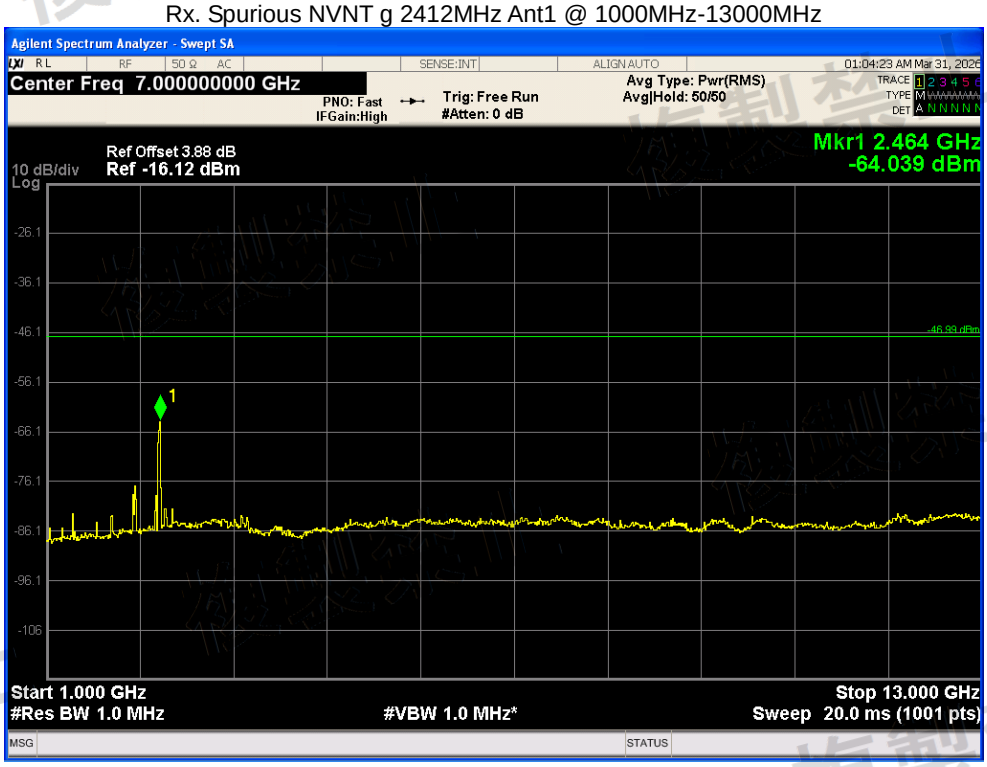
Rx. Spurious NVNT b 2472MHz Ant1 @ 1000MHz-13000MHz



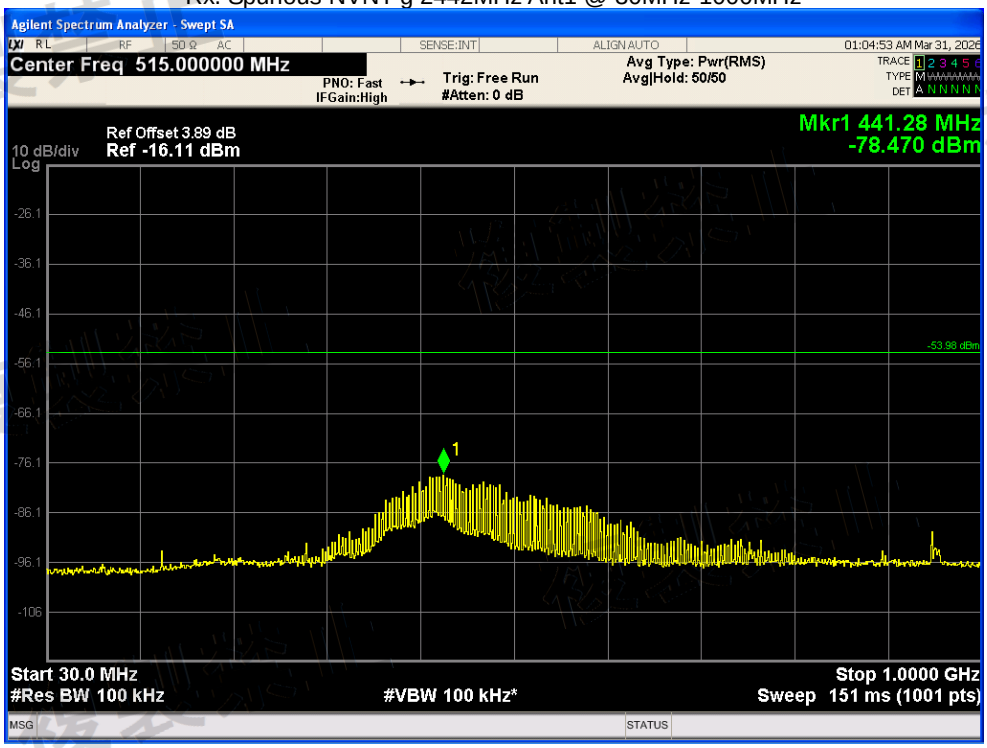
Rx. Spurious NVNT g 2412MHz Ant1 @ 30MHz-1000MHz



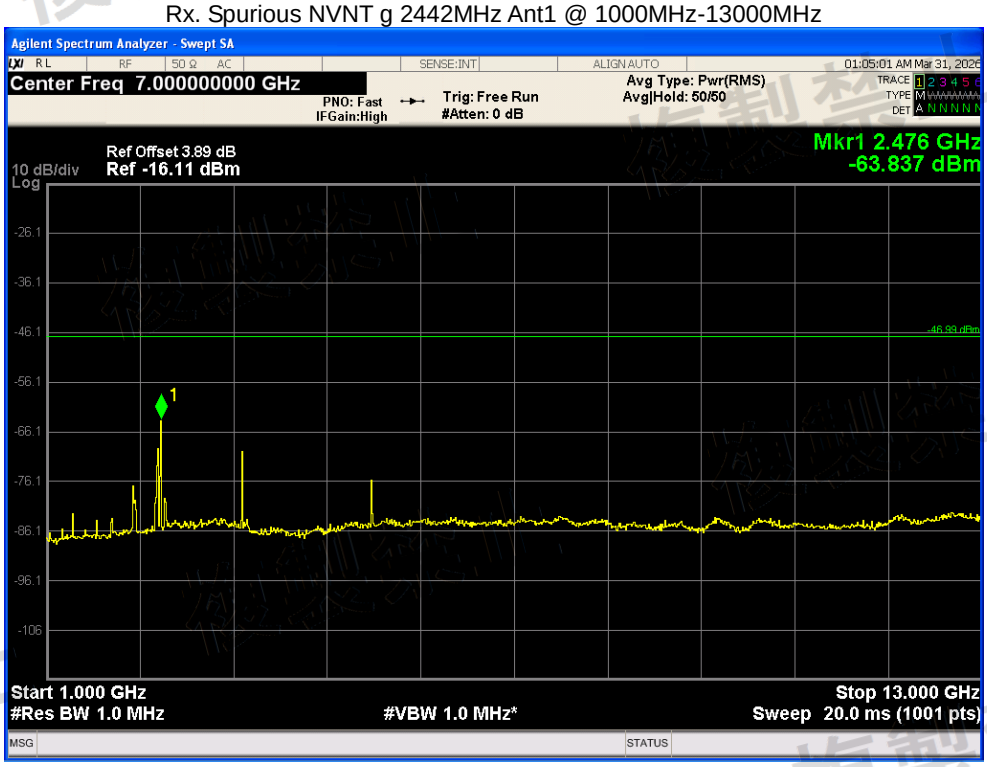
Rx. Spurious NVNT g 2412MHz Ant1 @ 1000MHz-13000MHz



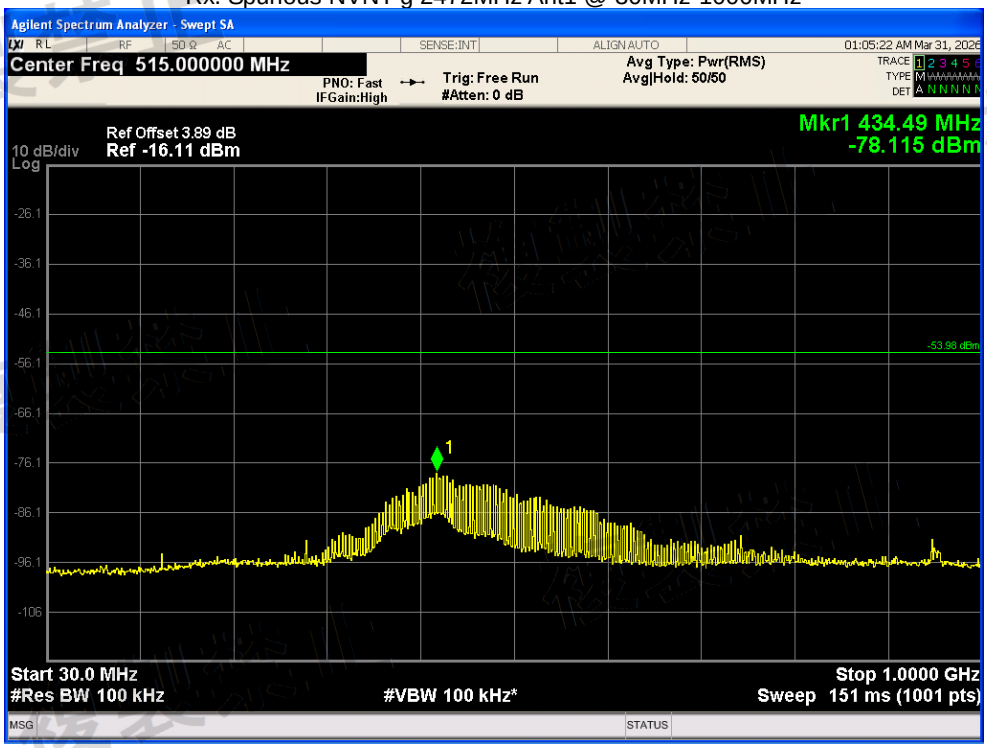
Rx. Spurious NVNT g 2442MHz Ant1 @ 30MHz-1000MHz



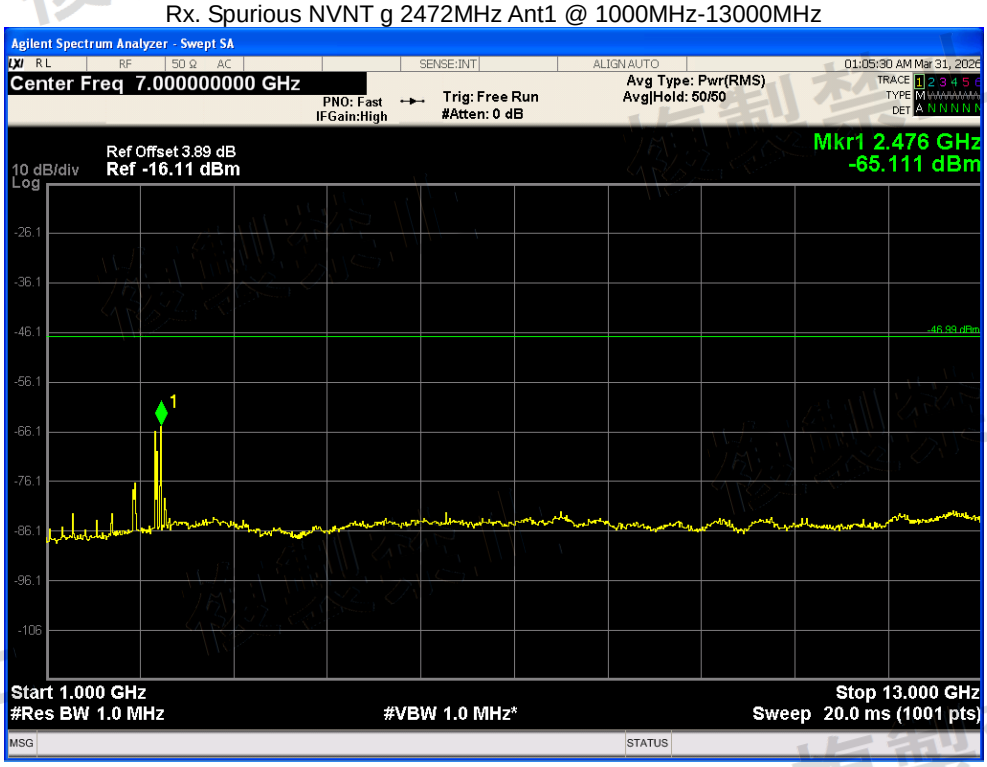
Rx. Spurious NVNT g 2442MHz Ant1 @ 1000MHz-13000MHz



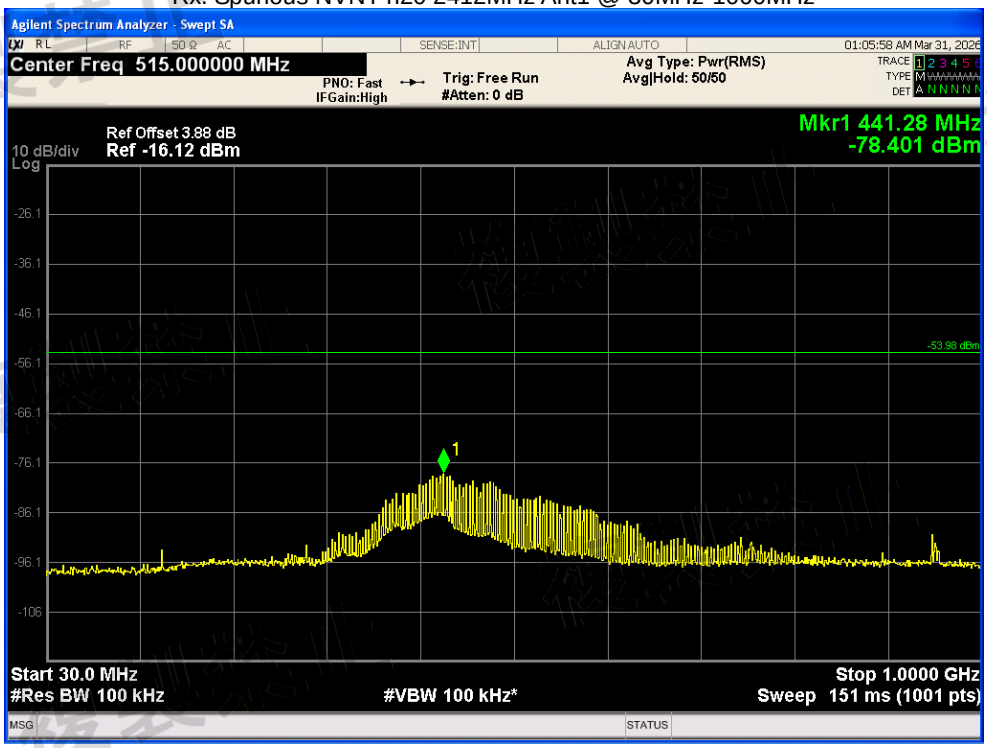
Rx. Spurious NVNT g 2472MHz Ant1 @ 30MHz-1000MHz



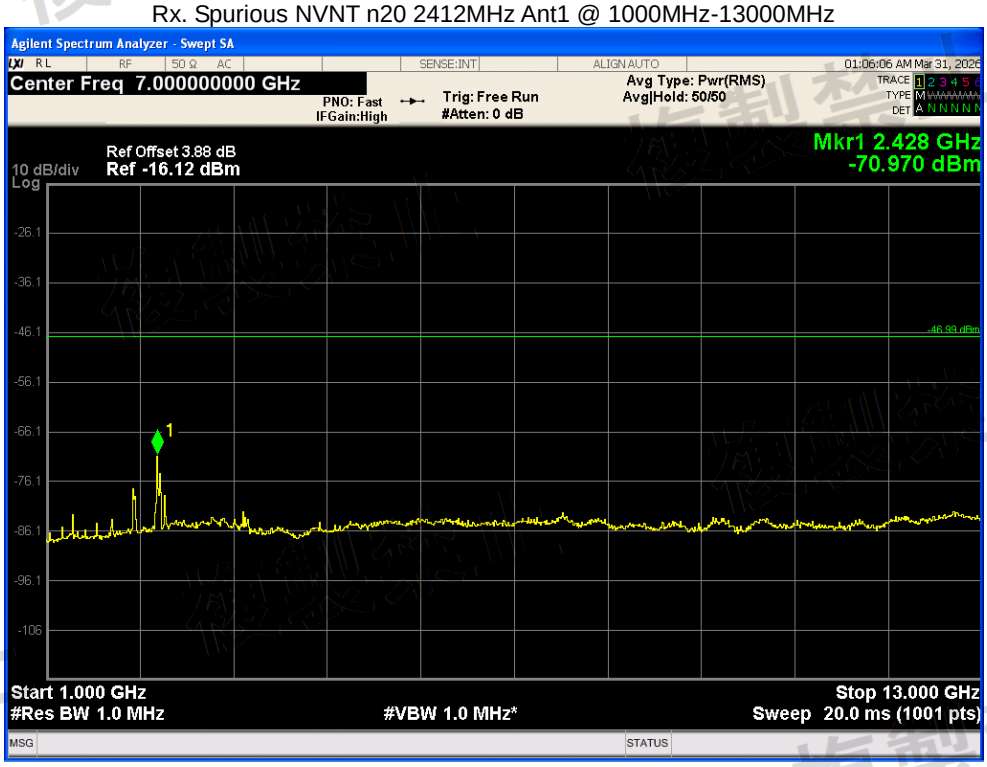
Rx. Spurious NVNT g 2472MHz Ant1 @ 1000MHz-13000MHz



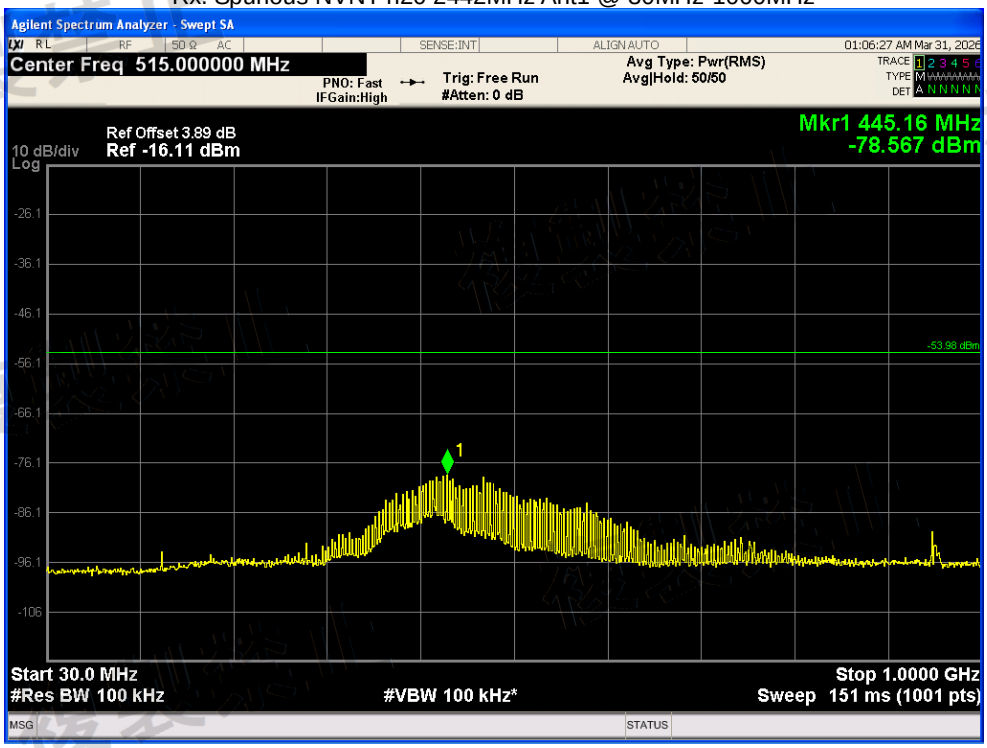
Rx. Spurious NVNT n20 2412MHz Ant1 @ 30MHz-1000MHz



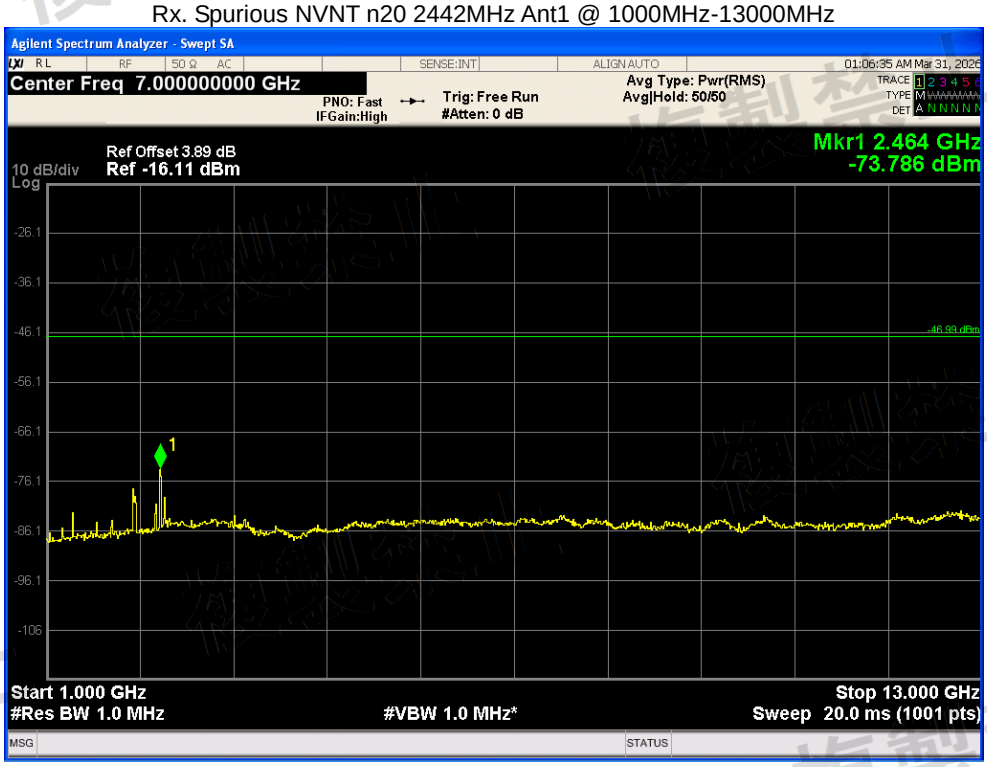
Rx. Spurious NVNT n20 2412MHz Ant1 @ 1000MHz-13000MHz



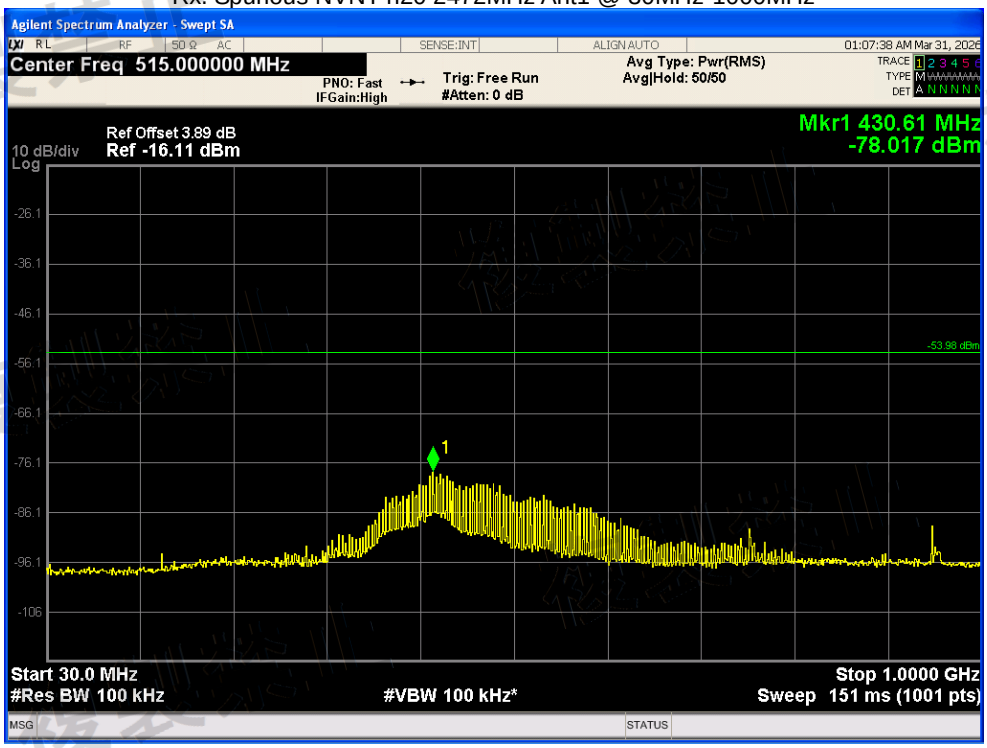
Rx. Spurious NVNT n20 2442MHz Ant1 @ 30MHz-1000MHz



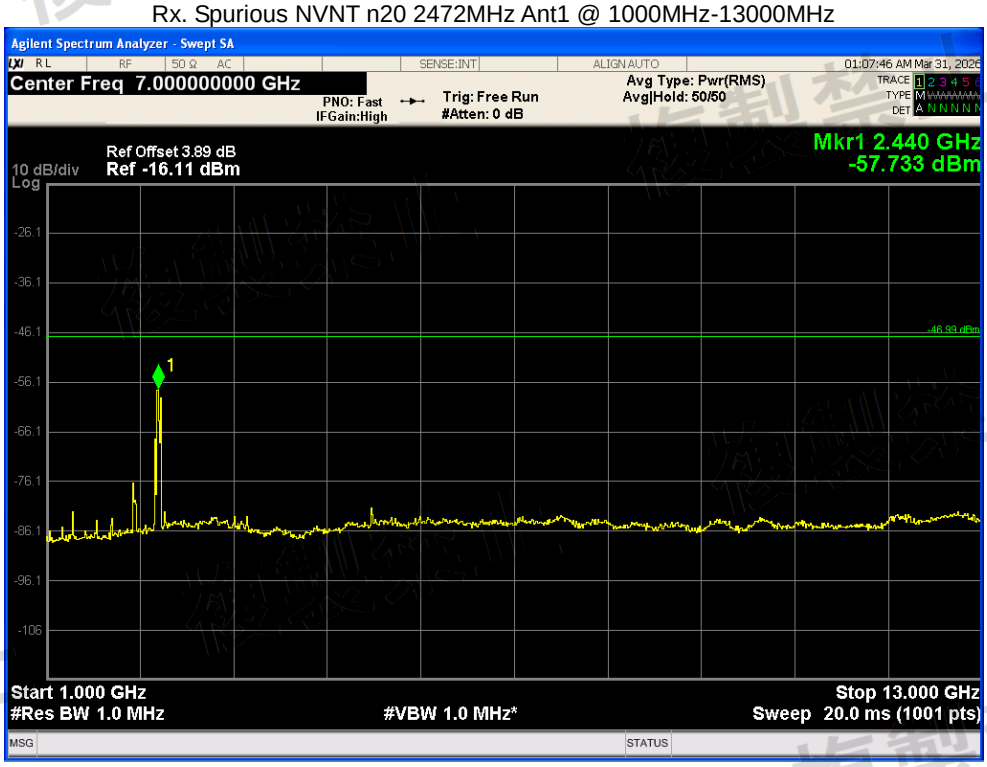
Rx. Spurious NVNT n20 2442MHz Ant1 @ 1000MHz-13000MHz



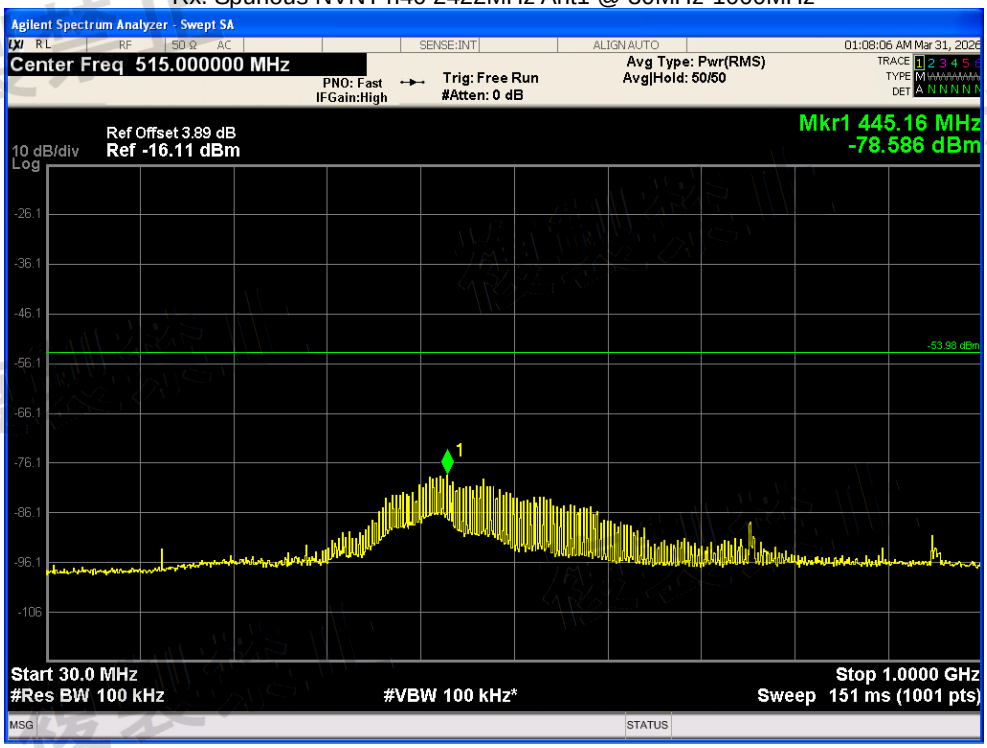
Rx. Spurious NVNT n20 2472MHz Ant1 @ 30MHz-1000MHz



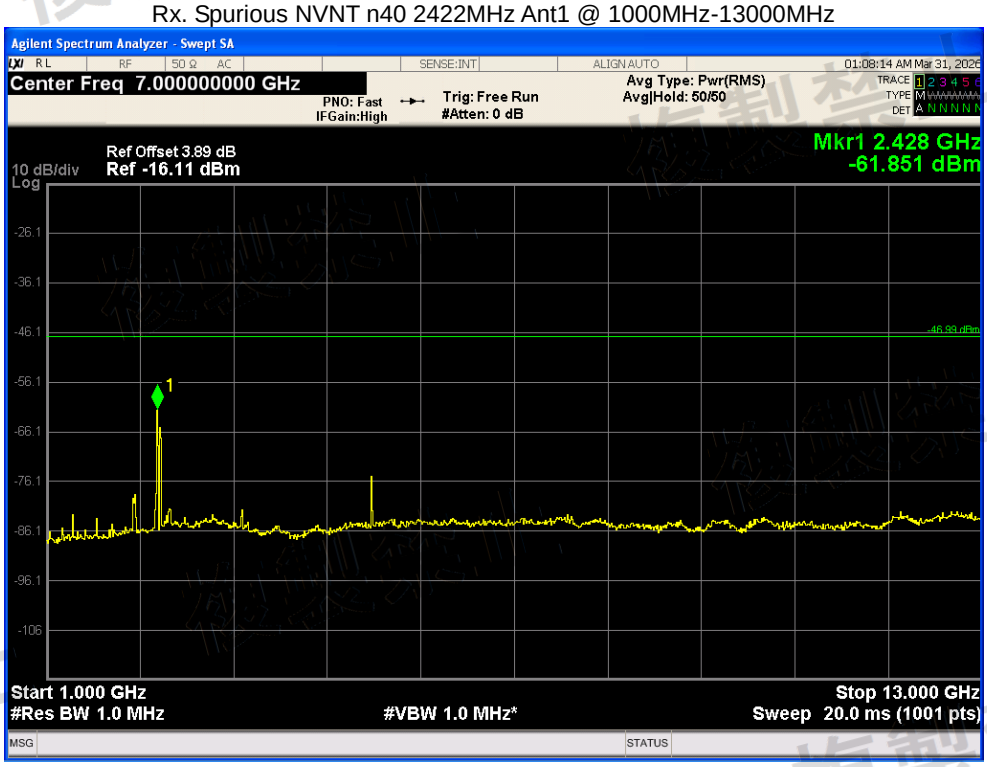
Rx. Spurious NVNT n20 2472MHz Ant1 @ 1000MHz-13000MHz



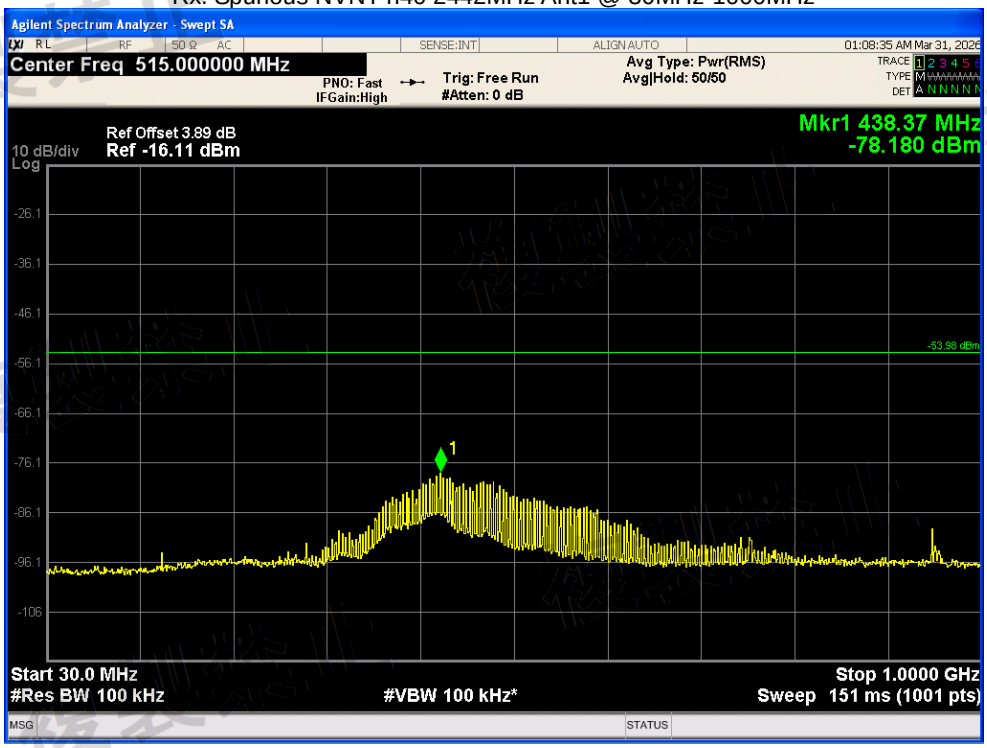
Rx. Spurious NVNT n40 2422MHz Ant1 @ 30MHz-1000MHz



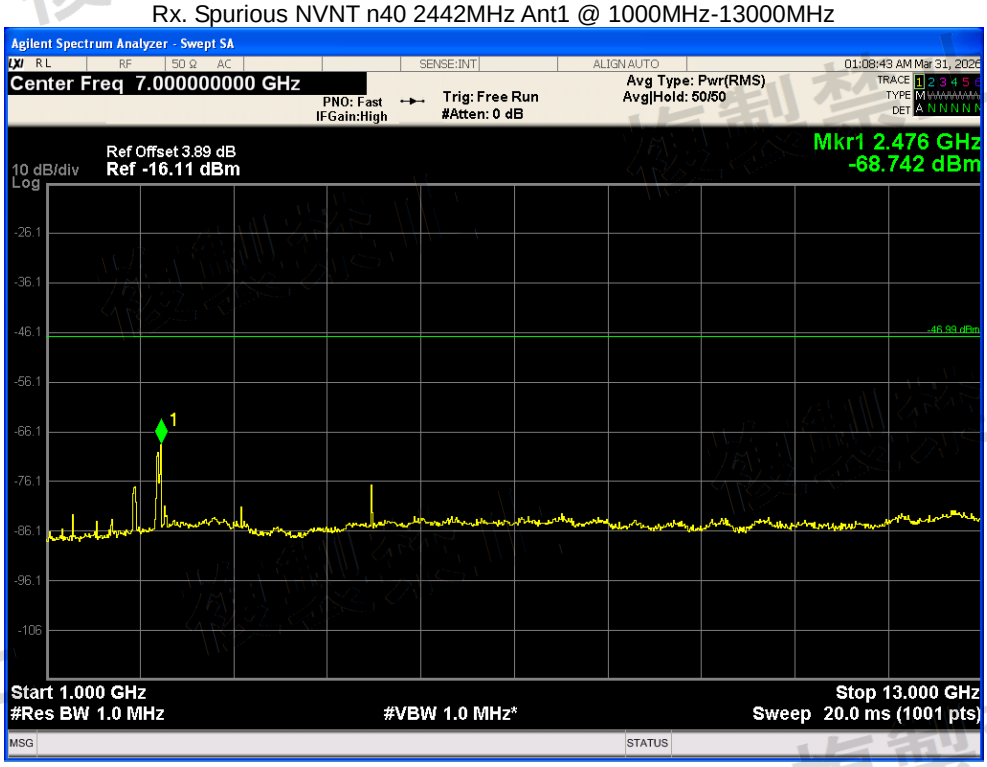
Rx. Spurious NVNT n40 2422MHz Ant1 @ 1000MHz-13000MHz



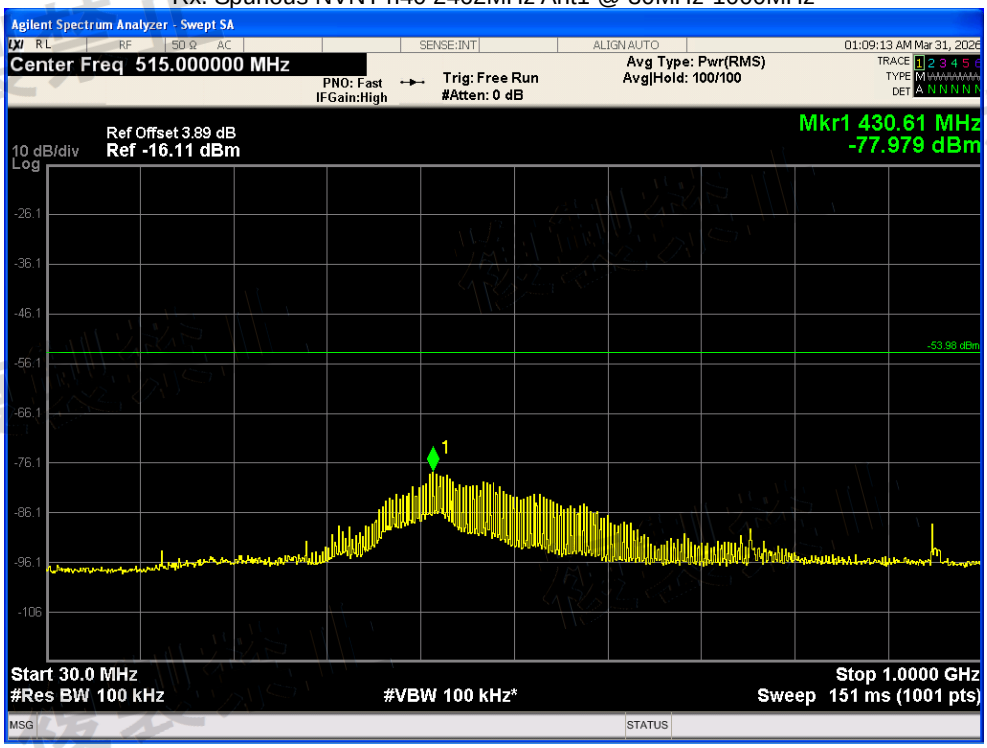
Rx. Spurious NVNT n40 2442MHz Ant1 @ 30MHz-1000MHz



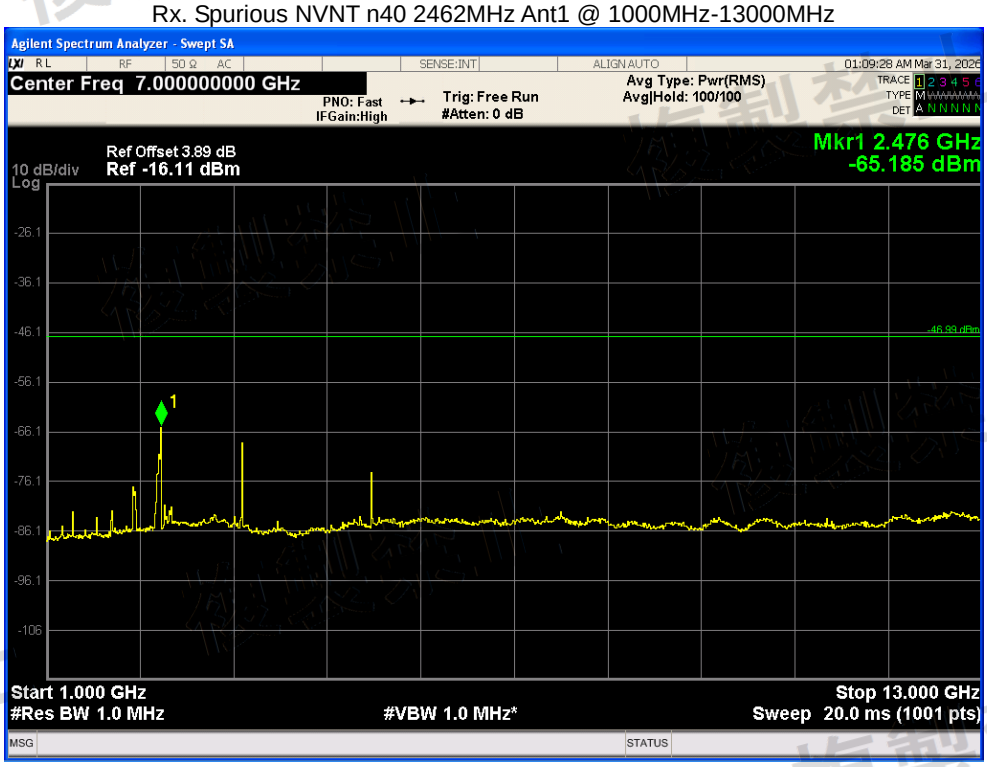
Rx. Spurious NVNT n40 2442MHz Ant1 @ 1000MHz-13000MHz



Rx. Spurious NVNT n40 2462MHz Ant1 @ 30MHz-1000MHz



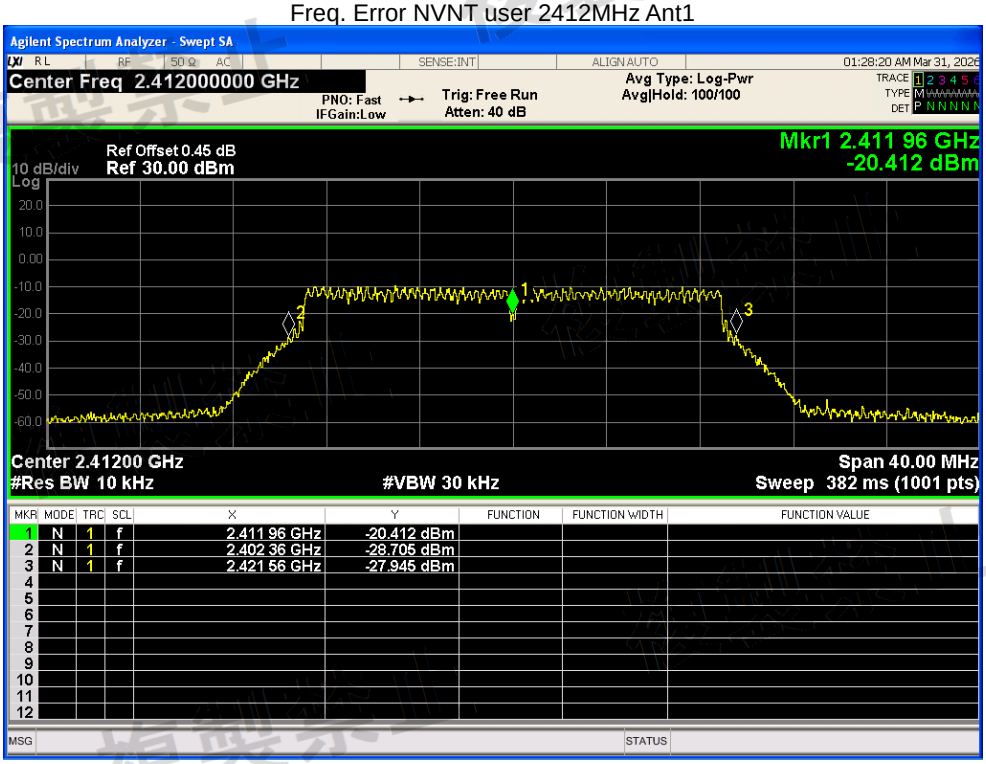
Rx. Spurious NVNT n40 2462MHz Ant1 @ 1000MHz-13000MHz



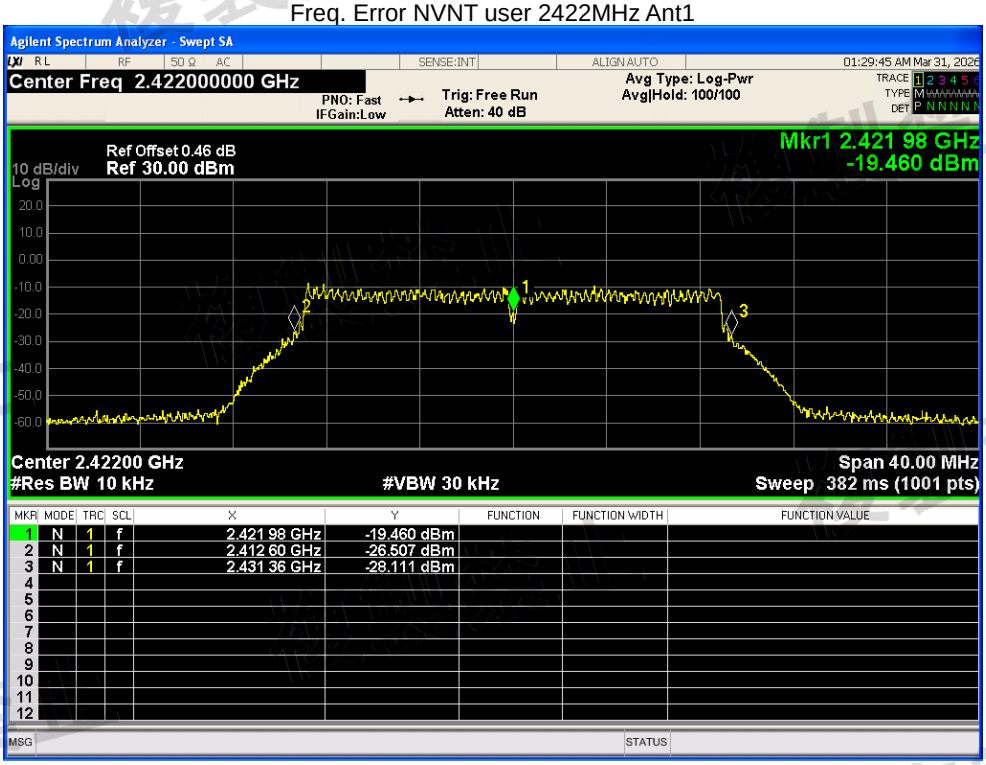
12.6 FREQUENCY ERROR

Condition	Mode	Frequency (MHz)	Antenna	Measured Frequency (MHz)	Deviation (ppm)	Limit (ppm)	Verdict
NVNT	user	2412	Ant1	2411.96	-16.58	50	Pass
NVNT	user	2422	Ant1	2421.98	-8.26	50	Pass
NVNT	user	2442	Ant1	2441.96	-16.38	50	Pass
NVNT	user	2462	Ant1	2461.9	-40.62	50	Pass
NVNT	user	2472	Ant1	2471.92	-32.36	50	Pass

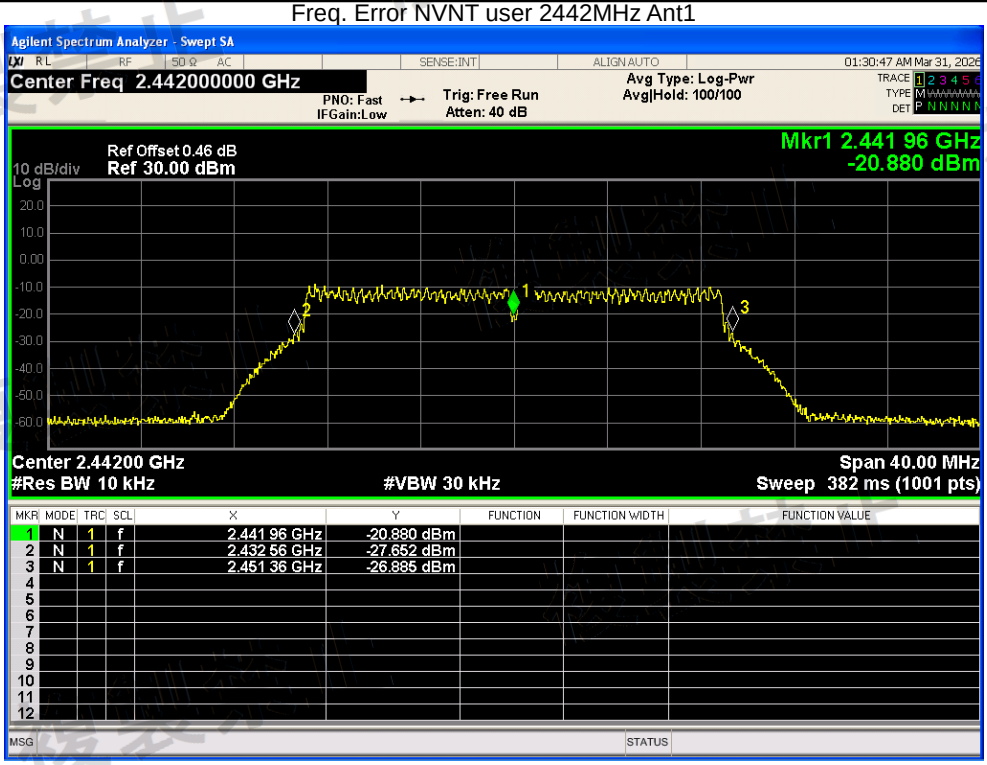
Freq. Error NVNT user 2412MHz Ant1



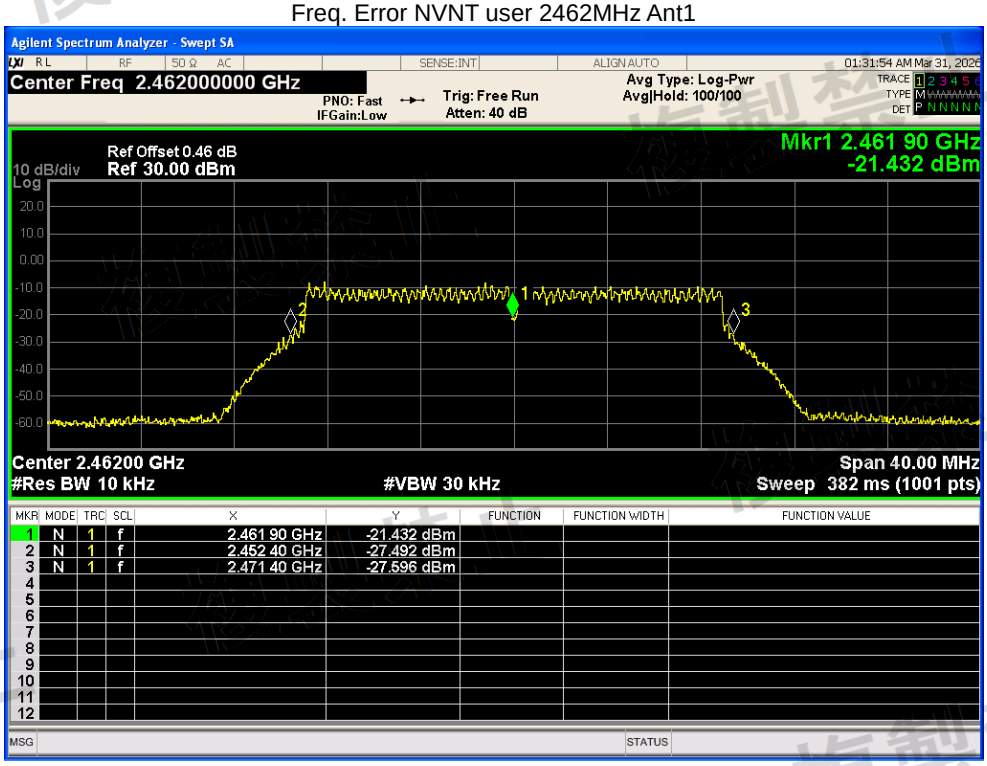
Freq. Error NVNT user 2422MHz Ant1



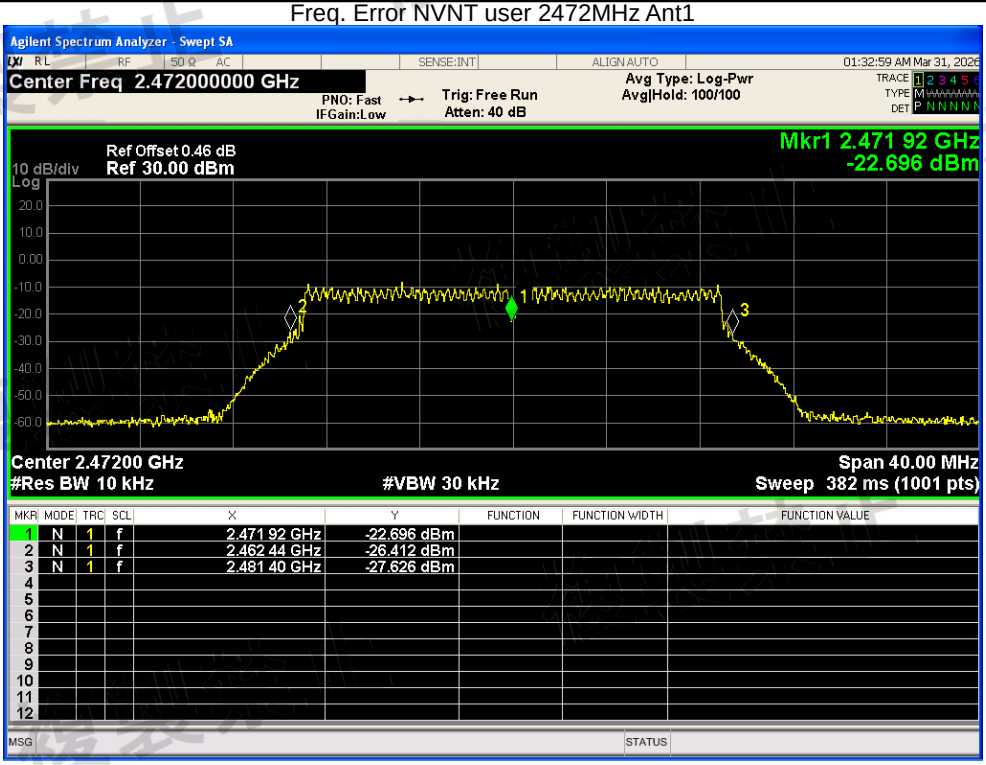
Freq. Error NVNT user 2442MHz Ant1



Freq. Error NVNT user 2462MHz Ant1



Freq. Error NVNT user 2472MHz Ant1



REPORT IS FINISHED.