RADIO TEST REPORT
Article 2 paragraph 1 item 19-3
MIC notice 88 Appendix 45

Product : Camera

Trade Mark : SENA

Model Name : Prism 2

Family Model : N/A

Report No. : S25011402314005

Prepared for

Sena Technologies Co., Ltd.

19, Heolleung-ro 569-gil, Gangnam-gu, Seoul, South Korea

Prepared by

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TEST RESULT CERTIFICATION

Applicant's name..... Sena Technologies Co., Ltd.

Address ..... 19, Heolleung-ro 569-gil, Gangnam-gu, Seoul, South Korea

Manufacturer's Name..... Sena Technologies Co., Ltd.

Address ..... 19, Heolleung-ro 569-gil, Gangnam-gu, Seoul, South Korea

Test specification:

Standard..... Article 2 paragraph 1 item 19-3
MIC Notice No.88 Appendix No.45

Test item description

Product name..... Camera

Trade Mark..... SENA

Model and/or type reference ..... Prism 2

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.

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Test Sample Number..... : S250114023014

Testing.....

Date (s) of performance of tests.... Jan. 15, 2025 ~ Mar. 03, 2025

Date of Issue ..... Mar. 03, 2025

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

Prepared By :	Reviewed By :	Approved By :
Joe Yan	Aaron Cheng	Alex Li
(Project Engineer)	(Supervisor)	(Manager)

※ ※ Revision History ※ ※

REV.	REPORT NO.	Page Revised	ISSUED DATE	Contents
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1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

Standard	Method	Description of Test	Result
Article 2 paragraph 1 item (19)-3	MIC Notice No.88 Appendix No.45.3	Frequency Error	Complies
	MIC Notice No.88 Appendix No.45.4	Occupied Bandwidth (99%)	Complies
	MIC Notice No.88 Appendix No.45.4	Spread Bandwidth and Spreading Factor	Complies
	MIC Notice No.88 Appendix No.45.6	RF Output Power/Tolerance	Complies
	MIC Notice No.88 Appendix No.45.6	E.I.R.P	Complies
	MIC Notice No.88 Appendix No.45.5	Unwanted Emission Strength	Complies
	MIC Notice No.88 Appendix No.45.7	Adjacent Channel Leakage Power	Complies
	MIC Notice No.88 Appendix No.45.8	Out-Band Leakage Power	Complies
	MIC Notice No.88 Appendix No.45.9	Secondary Radiation Emission Strength	Complies
	MIC Notice No.88 Appendix No.45.3.10	Transmission Burst Length	Complies
	MIC Notice No.88 Appendix No.45.11	Interference Prevention Function	Complies
	MIC Notice No.88 Appendix No.45.12	Carrier Sensing Function	Complies
	MIC Notice No.88 Appendix No.45.13,14	DFS	N/A
	MIC Ordinance Regulating Radio Equipment Section 1.A of Article 49.20.3	Construction Protection Confirmation	Please refer to Japan Radio Protection Declaration

Note: "N/A" means not applicable in the report.

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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	$\pm 1\times 10^{-6}$
8	Occupied bandwidth	±4.7dB

2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	Camera
Trade Mark	SENA
Model Name	Prism 2
Family Model	N/A
Model Difference	All models are the same circuit and RF module, except N/A Reduced camera recording.
Product Description	The EUT is a Camera & Battery Charger Operation Frequency: 5150.0MHz ~ 5250.0MHz Modulation Type: 802.11a:OFDM (BPSK / QPSK / 16QAM, 64 QAM) 802.11n:OFDM (QPSK/BPSK/16QAM/64QAM) 802.11ac:OFDM (QPSK/BPSK/16QAM/64QAM/256QAM) Number Of Channel: Please see Note 2. Antenna Designation: Chip Antenna Antenna Gain: 2.3dBi Based on the application, features, or specification exhibited in User's Manual, the EUT is considered as an ITE/Computing Device. More details of EUT technical specification, please refer to the User's Manual.
Channel List	Please refer to the Note 2.
Adapter	N/A
Battery	DC 3.8V, 1650mAh, 6.27Wh
Rating(s)	DC 3.8V from battery or DC 5V from charge port
Hardware Version	1V0
Firmware Version	1V0
Software Version	1V0

Note:

1. Frequency used for the ARIB STD-T71:
   (a) The frequency used in the 20 MHz system shall be one of the following.
   ① 5,180 MHz, 5,200 MHz, 5,240 MHz

   (b) The frequency used in the 40 MHz system shall be one of the following.
   ① 5,190 MHz, 5,230 MHz

   (c) The frequency used in the 80 MHz system shall be one of the following.
   ① 5, 210 MHz

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

3.

Carrier Frequency Channel (802.11a)							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
36	5180	40	5200	44	5220	48	5240

Carrier Frequency Channel (802.11n20/ac20)							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
36	5180	40	5200	44	5220	48	5240

Carrier Frequency Channel (802.11n40/ac40)							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
38	5190	46	5230				

802.11ac (80MHz) Carrier Frequency Channel	
Channel	Frequency (MHz)
42	5210

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	802.11a /n(20)/ac(20): CH 36/ CH 40/ CH 48
Mode 2	802.11n(40)/ac(40): CH 38/ CH 46
Mode 3	802.11ac(80):CH 42

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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.

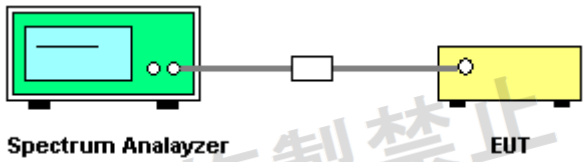
Power Supply Voltage Fluctuation Test

Voltage Fluctuation Test	Normal Voltage	High Voltage +10% of Normal Voltage	Low Voltage -10% of Normal Voltage
DC Power	DC 3.8V	DC 4.18V	DC 3.42V
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



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	Camera	Prism 2	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”.

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2.6 EQUIPMENTS LIST FOR ALL TEST ITEMS

Radiation Test equipment

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	SPECTRUM ANALYZER	AGLIENT	E4440A	MY41000130	2024.03.12	2025.03.11	1 year
2	SPECTRUM ANALYZER	AGILENT	N9020A	MY49100060	2024.04.26	2025.04.25	1 year
3	TEST RECEIVER	R&S	ESPI7	101318	2024.03.12	2025.03.11	1 year
4	50Ω COAXIAL SWITCH	ANRITSU	MP59B	6200983705	2023.05.06	2026.05.05	3 year
5	HORN ANTENNA	EM	EM-AH-10180	2011071402	2024.05.12	2027.05.11	3 year
6	HORN ANT	SCHWARZBECK	BBHA 9170	9170-181	2024.05.12	2027.05.11	3 year
7	PRE-AMPLIFIER	EMC	EMC051835SE	980246	2024.04.25	2025.04.24	1 year
8	POWER METER	DARE	RPR3006W	15I00041SNO84	2023.05.29	2024.05.28	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	2023.05.06	2026.05.05	3 year
11	AGILENT	PSG ANALOG SIGNAL GENERATOR	E8257D	MY51110112	2024.05.30	2025.05.29	1 year

Note: These devices are China's Guangzhou Lisai Calibration

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Measurement Software

Item	Manufacturer	Software Name	Software Version	Description
1	MWRFtest	MTS 8310 2.4GHz/5GHz	2.0	RF Conducted Test
2	Farad	EZ-EMC_RE	AIT-03A	RadiatedTest
3	raditeq	RadiMation	2023.1.3	RadiatedTest
4	Farad	EZ-EMC_CE	AIT-03A	AC Conducted Test

Remark:
(a) Calibration conducted by the National institute of information and Communications Technology (NICT)in Japan (hereinafter referred to as "NICT") or a designated calbration agency under Article 102-18 paragraph (1) in JRL.
(b) Correction conducted pursuant to the provisions of Article 135 or Article 144 of the Measurement Act (Act No. 51 of 1992).
(c) Calilbration conducted in countries except Japan, which shall be equivalent to the calibration conducted by the NICT or a designated calibration agency under Article 102-18 paragraph (1).
(d) Calibration, etc, conducted by using measuring instruments and other equipment listed in the right column of appended table No. 3, which shall have been given any type of calbration, etc. listed above from (a) to (c)From JRL Article 24-2, paragraph 4, Item 2.

3. FREQUENCY ERROR

3.1 LIMIT

Item	Limits
Frequency Error	+/-20ppm

3.2 MEASURING INSTRUMENTS AND SETTING

The following table is the setting of Spectrum Analyzer.

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

3.3 TEST PROCEDURES

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

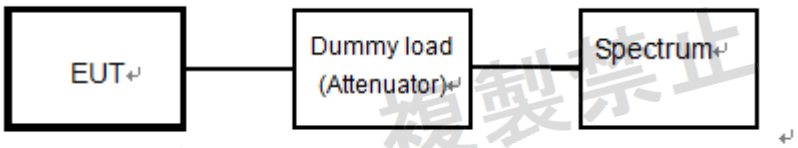
(2)In the case of burst waves, the measurement shall be done for enough time in order to obtain the enough measuring accuracy, and the average of the measured values becomes the final value.

(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.

3.4 TEST SETUP LAYOUT



3.5 EUT OPERATION DURING TEST

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

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3.6 TEST RESULT

EUT：	Camera	Model:	Prism 2
Temperature:	25°C	Tested by:	Joe Yan
Humidity:	55 % RH	Test Voltage	Normal Voltage(DC 3.8V)
Operation Mode:	unmodulated-(5.2G)		

Test data reference attachment

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4. OCCUPIED BANDWIDTH MEASUREMENT (99% POWER BANDWIDTH)

4.1 LIMIT

Items	Limits
(a) ① for Section 2.1, Note 1	≤20MHz;
(b) ① for Section 2.1, Note 1	≤40MHz
(c) ① for Section 2.1, Note 1	≤80MHz

4.2 TEST PROCEDURES

1. Setting of SA is following as: RBW: 300KHz /VBW:300KHz/Sweep Mode: Continuous sweep / Detect mode: Positive peak / Trace mode: Max hold.
2. EUT have transmitted each modulation signal and fixed channelize (For DSSS or OFDM Device). SA set to 99% of occupied bandwidth to measure occupied bandwidth. The limit is less than specific value as section 3.2.1.

4.3 TEST SETUP LAYOUT

4.4 TEST DEVIATION

There is no deviation with the original standard.

4.5 EUT OPERATION DURING TEST

The EUT was programmed to be in continuously transmitting mode.

4.6 TEST RESULT

EUT：	Camera	Model:	Prism 2
Temperature:	25^{0}C	Tested by:	Joe Yan
Humidity:	55 % RH	Test Voltage	Normal Voltage(DC 3.8V)
Operation Mode:	Normal Voltage-802.11a/n/ac mode(5.2G)		

Test data reference attachment

5. SPURIOUS EMISSIONS FOR TRANSMITTER MEASUREMENT

5.1 LIMIT

W52			
20MHz system		40MHz system	80MHz system
OBW : 18MHz or less	OBW : 18 - 20 MHz		
5,142 MHz or less : 2.5 μW/MHz	5,142 MHz or less : 2.5 μW/MHz	5,141.6 MHz or less : 2.5 μW/MHz	5,123.2 MHz or less : 2.5 μW/MHz
5,142 - 5,150 MHz : 15 μW/MHz	5,142 - 5,150 MHz : 15 μW/MHz	5,141.6 - 5,150 MHz : 15 μW/MHz	5,123.2 - 5,150 MHz : 15 μW/MHz
	5,250 - 5,250.2 MHz : $10^{1-(8/3)(f-9.75)}$mW/MHz		
5,250 - 5,251 MHz : $10^{1-(f-9)}$mW/MHz	5,250.2 - 5,251 MHz : $10^{1-(f-9)}$mW/MHz	5,250 - 5,251 MHz : $10^{-(f-20)+log(1/2)}$mW/MHz	5,250 - 5,251 MHz : $10^{-(f-40)+log(1/4)}$mW/MHz
5,251 - 5,260 MHz : $10^{-1-(8/90)(f-11)}$mW/MHz	5,251 - 5,260 MHz : $10^{-1-(8/90)(f-11)}$mW/MHz	5,251 - 5,270 MHz : $10^{-(8/190)(f-21)-1+log(1/2)}$mW/MHz	5,251 - 5,290 MHz : $10^{-(8/390)(f-41)-1+log(1/4)}$mW/MHz
5,260 - 5,266.7 MHz : $10^{-1.8-(6/50)(f-20)}$mW/MHz	5,260 - 5,266.7 MHz : $10^{-1.8-(6/50)(f-20)}$mW/MHz	5,270 - 5,278.4 MHz : $10^{-(3/50)(f-40)-1.8+log(1/2)}$mW/MHz	5,290 - 5,296.7 MHz : $10^{-(3/100)(f-80)-1.8+log(1/4)}$mW/MHz
5,266.7 MHz or more : 2.5 μW/MHz	5,266.7 MHz or more : 2.5 μW/MHz	5,278.4 MHz or more : 2.5 μW/MHz	5,296.7 MHz or more : 2.5 μW/MHz
f = MHz, Difference from 5240 (MHz)	f = MHz, Difference from 5240 (MHz)	f = MHz, Difference from 5230 (MHz)	f = MHz, Difference from 5210 (MHz)

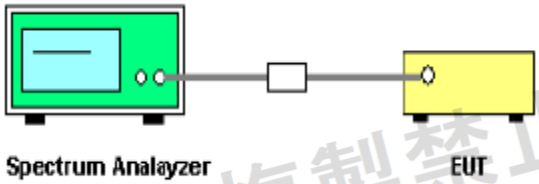
W53			
20MHz system		40MHz system	80MHz system
OBW : 18MHz or less	OBW : 18 - 20 MHz		
5,233.3 MHz or less : 2.5 μW/MHz	5,233.3 MHz or less : 2.5 μW/MHz	5,221.6 MHz or less : 2.5 μW/MHz	5,203.3 MHz or less : 2.5 μW/MHz
5,233.3 - 5,240 MHz : $10^{-1.8-(6/50)(f-20)}$mW/MHz	5,233.3 - 5,240 MHz : $10^{-1.8-(6/50)(f-20)}$mW/MHz	5,221.6 - 5,230 MHz : $10^{-(3/50)(f-40)-1.8+log(1/2)}$mW/MHz	5,203.3 - 5,210 MHz : $10^{-(3/100)(f-80)-1.8+log(1/4)}$mW/MHz
5,240 - 5,249 MHz : $10^{-1-(8/90)(f-11)}$mW/MHz	5,240 - 5,249 MHz : $10^{-1-(8/90)(f-11)}$mW/MHz	5,230 - 5,249 MHz : $10^{-(8/190)(f-21)-1+log(1/2)}$mW/MHz	5,210 - 5,249 MHz : $10^{-(8/390)(f-41)-1+log(1/4)}$mW/MHz
5,249 - 5,250 MHz : $10^{1-(f-9)}$mW/MHz	5,249 - 5,249.8 MHz : $10^{1-(f-9)}$mW/MHz	5,249 - 5,250 MHz : $10^{-(f-20)+log(1/2)}$mW/MHz	5,249 - 5,250 MHz : $10^{-(f-40)+log(1/4)}$mW/MHz
5,350 MHz or more : 2.5 μW/MHz	5,249.8 - 5,250 MHz : $10^{1-(8/3)(f-9.75)}$mW/MHz	5,350 - 5,358.4 MHz : 15 μW/MHz	5,350 - 5,376.8 MHz : 15 μW/MHz
	5,350 MHz or more : 2.5 μW/MHz	5,358.4 MHz or more : 2.5 μW/MHz	5,376.8 MHz or more : 2.5 μW/MHz
f = MHz, Difference from 5260 (MHz)	f = MHz, Difference from 5260 (MHz)	f = MHz, Difference from 5270 (MHz)	f = MHz, Difference from 5290 (MHz)

W56			
20MHz system		40MHz system	80MHz system
DSSS, etc.	OFDM		
5,470 MHz or less : 12.5 uW/MHz	5,460 MHz or less : 2.5 uW/MHz	5,460 MHz or less : 12.5 uW/MHz	5,460 MHz or less : 12.5 uW/MHz
	5,460 - 5,470 MHz : 12.5 uW/MHz	5,460 - 5,470 MHz : 50 uW/MHz	5,460 - 5,469.5 MHz : 50 uW/MHz
5,730 MHz or more : 12.5 uW/MHz	5,745 - 5,765 MHz : 12.5 uW/MHz	5,770 MHz or more : 12.5 uW/MHz	5,469.5 - 5,470 MHz : 51.2 uW/MHz
	Over 5,765 MHz : 2.5 uW/MHz		5,770 MHz or more : 12.5 uW/MHz

5.2. 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. SA adjusted to start frequency and stop frequency 26GHz .Then to mark peak reading value + cable loss shall be less than 2.5uW/MHz.
5. If the Result Value is over the requirement, we need to measurement as below steps
6. Span 1~10MHz to find the frequency that have maximum value.
7. Setting of SA is following as: Span: Zero/RBW: 100KHz/VBW: 100KHz under 1GHz, Sweep time: Auto / Sweep Mode: Singled sweep / Detect mode: Sample.
8. Calculated the mean power value, add all value of test point and division sample point number.
9. Report the mean power

5.3. TEST SETUP LAYOUT



5.4. TEST DEVIATION

There is no deviation with the original standard.

5.5. TEST RESULT

EUT：	Camera	Model:	Prism 2
Temperature:	25°C	Tested by:	Joe Yan
Humidity:	55 % RH	Test Voltage	Normal Voltage(DC 3.8V)
Operation Mode:	Normal Voltage-802.11a/n/ac mode(5.2G)		

Test data reference attachment

6. ADJACENT CHANNEL POWER TOLERANCE

6.1 LIMIT

802.11a & 802.11n/ac (20MHz/40MHz/80MHz)

LIMIT
(BW_{ch} 20MHz & CP/OBW≤18MHz) - fc±20MHz ≥25dB; fc±40MHz ≥40dB
(BW_{ch} 20MHz & CP/OBW≤20MHz) - fc±20MHz ≥25dB; fc±40MHz ≥40dB
(BW_{ch} 40MHz & CP/OBW≤40MHz) - fc±40MHz ≥25dB; fc±80MHz ≥40dB
(BW_{ch} 80MHz & CP/OBW≤80MHz) - fc±80MHz ≥25dB
(BW_{ch} 80+80MHz & CP/OBW≤80MHz) - fc±80MHz ≥25dB
(BW_{ch} 160MHz & CP/OBW≤160MHz) - N/A

6.2 TEST PROCEDURES

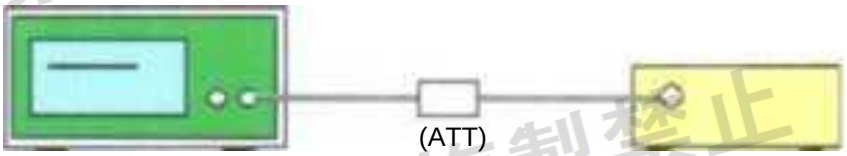
1. EUT has the continuous reception mode and fixed only one channelize.

2 .SA set RBW: 300KHz and VBW: 300KHz, Span 100MHz (BW=20MHz/200MHz(BW=40MHz),RMS Detector, trace Maximum Hold and use ACLR Option.

3. Frequency spacing and measuring bandwidth be specified in section 3.6.1.

4. Reporting the worst value

6.3 TEST SETUP



6.4 TEST DEVIATION

There is no deviation with the original standard.

7.5 EUT OPERATION DURING TEST

The EUT was programmed to be in continuously transmitting mode.

7.6 TEST RESULT

EUT：	Camera	Model:	Prism 2
Temperature:	25^{0}C	Tested by:	Joe Yan
Humidity:	55 % RH	Test result:	Pass

Test data reference attachment

7. RF OUTPUT POWER / TOLERANCE

7.1 LIMIT

Band	Item	Limits
W52 Band W53 Band W56 Band	Antenna Power Density	≤10mW(Other)or≤10mW/MHz(DS,OBW≤18MHz) ≤10mW/MHz(OFDM,OBW≤20MHz) ≤5mW/MHz (OFDM,OBW≤40MHz) ≤2.5 mW/MHz (OFDM,OBW≤80MHz)
W52 Band W53 Band	Antenna Power Error	+20%, -80%
W56 Band		+50%, -50%

8.2 TEST DEVIATION

There is no deviation with the original standard.

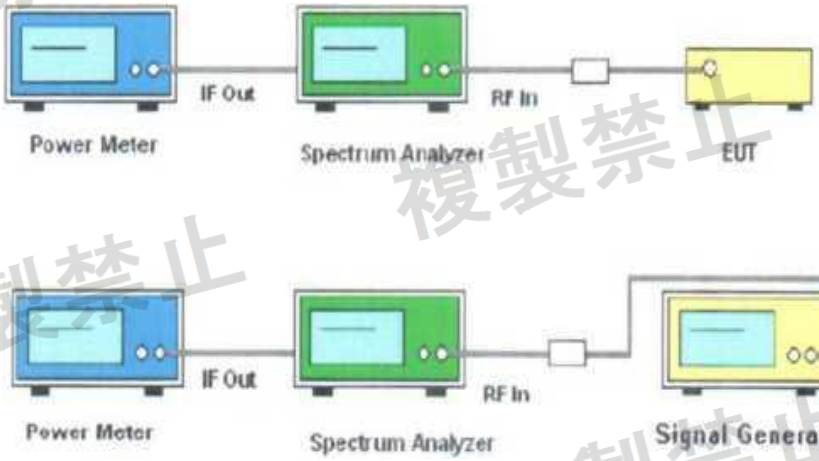
8.3 EUT OPERATION DURING TEST

The EUT was programmed to be in continuously transmitting mode.

8.4 TEST PROCEDURES

1. A power meter is connected on the IF output port of the spectrum analyzer.
2. Adjust the spectrum analyzer to have the center frequency the same with the measured carrier. RBW=VBW=1MHz, detector mode is positive peak. Turn off the averaging function and use zero span.
3. The calibrating signal power shall be reduced to 0dBm and it shall be verified that the power meter reading also reduces by 10dB.
4. Connect the equipment to be measured. Using the following settings of the spectrum analyzer in combination with “max hold” function, find the frequency of highest power output in the power envelope; center frequency equal to operating frequency; RBW&VBW:1MHz; detector mode: positive peak; averaging: off; span: 3 times the spectrum width; amplitude: adjust for middle of the instrument’s range. The frequency found shall be recorded.
5. Set the center frequency of the spectrum analyzer to the found frequency and switch to zero span. The power meter indicates the measured power density “E”.
6. Remove the EUT and put the replacing standard signal generator (SSG). Set the standard signal generator (SSG) at same frequency and transmit on, then set SSG output power at Pt to give the equivalent output level of “E”.
7. Calculate antenna power density by the formula below PD=Pt+10*log(1/x).x:The duty cycle of the EUT in continuously transmitting mode
   Pt: Output power of the SSG
8. Antenna Power Error is definition that actual measure antenna power tolerance between +20%to-80% power range that base on manufacturer declare the conducted power density.

8.5 TEST SETUP



8.6 TEST RESULT

EUT：	Camera	Model:	Prism 2
Temperature:	25^{0}C	Tested by:	Joe Yan
Humidity:	55 % RH	Test Voltage	Normal Voltage(DC 3.8V)
Operation Mode:	Normal Voltage-a/n/ac mode(5.2G)		

Test data reference attachment

8. E.I.R.P MEASUREMENT

8.1 LIMIT

	20MHz	40MHz	80MHz	80MHz+80MHz (Not adjacent band)	160MHz
(W52) :	10mW/MHz	5mW/MHz	2.5mW/MHz	1.25mW/MHz	1.25mW/MHz
(W53) :	10mW/MHz : with TPC 5mW/MHz : without TPC	5mW/MHz : with TPC 2.5mW/MHz : without TPC	2.5mW/MHz : with TPC 1.25mW/MHz : without TPC	1.25mW/MHz : with TPC 0.625mW/MHz : without TPC	1.25mW/MHz : with TPC 0.625mW/MHz : without TPC
(W56) :	50mW/MHz : with TPC 25mW/MHz : without TPC	25mW/MHz : with TPC 12.5mW/MHz : without TPC	12.5mW/MHz : with TPC 6.25mW/MHz : without TPC	1.25mW/MHz : with TPC 0.625mW/MHz : without TPC	6.25mW/MHz : with TPC 3.125mW/MHz : without TPC
	TPC (Transmission Power Control) : A function to reduce the average antenna power by 3dB in one communication system *If it is difficult to test, please confirm "support of TPC function" by "design specification form".				

8.2 TEST PROCEDURES

EIRP Power= Conducted power + antenna gain.

8.3 TEST SETUP LAYOUT

Please refer to Section 8.4 of this test report.

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 normal transmitting mode.

8.6 TEST RESULT

EUT :	Camera	Model:	Prism 2
Temperature:	25 ^{0}C	Tested by:	Joe Yan
Humidity:	55 % RH	Test Voltage	Normal Voltage(DC 3.8V)
Operation Mode:	Normal Voltage-a/n/ac mode(5.2G)		

Test data reference attachment

10 SPURIOUS EMISSIONS FOR RECEIVER

10.1 LIMIT

Item	Limits
Rx Spurious Emission	≤4nW (f<1GHz)
	≤20nW (1GHz≤f)

10.2 TEST PROCEDURE

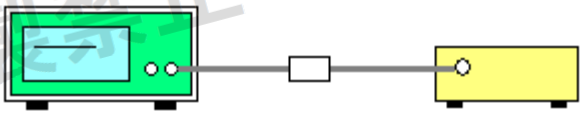
1. EUT have the continuous reception mode and fixed only one channelize.

2. SA set RBW:100KHz and VBW: 100KHz. Then adjust to start frequency 30MHz and stop frequency 1000MHz. Search to mark peak reading value + cable loss shall be less than 4nW.

3. SA set RBW: 1MHz and VBW: 1MHz. Then adjust to start frequency 1000MHz and stop frequency 12500MHz. Search to mark peak reading value + cable loss shall be less than 20nW.

4. 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.

10.3 TEST SETUP LAYOUT



10.4 TEST DEVIATION

There is no deviation with the original standard.

10.5 EUT OPERATION DURING TEST

The EUT was programmed to be in continuously reception mode.

10.6 TEST RESULT

EUT :	Camera	Model:	Prism 2
Temperature:	25^{0}C	Tested by:	Joe Yan
Humidity:	55 % RH	Test Voltage	Normal Voltage(DC 3.8V)
Operation Mode:	Normal Voltage-a/n/ac mode(5.2G)		

Test data reference attachment

11 BURST LENGTH

11.1 LIMITS OF BURST LENGTH

Item	Limits
Transmission Burst	≤8ms

11.2 MEASURING INSTRUMENTS

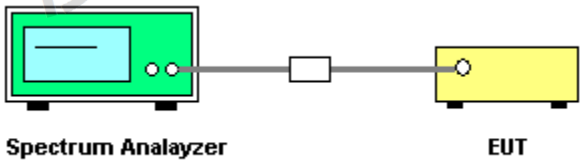
See list of measuring instruments of this test report.

11.3 TEST PROCEDURES

1. Setting of SA is following as: RBW: 8MHz/VBW:8MHz /Sweep Mode:Single sweep/Detect mode: Positive peak/Zero Span I Sweet time: more than burst length.

2. Measure the maximum time duration of one burst length.

11.4 TEST SETUP



11.5 TEST DEVIATION

There is no deviation with the original standard.

11.6 EUT OPERATION DURING TEST

The EUT was programmed to be in continuously transmitting mode.

11.7 TEST RESULT

EUT：	Camera	Model:	Prism 2
Temperature:	25^{0}C	Tested by:	Joe Yan
Humidity:	55 % RH	Test Voltage	Normal Voltage(DC 3.8V)
Operation Mode:	Normal Voltage-a/n/ac mode(5.2G)		

Test data reference attachment

12 RADIO INTERFERENCE PREVENTION CAPABILITY MEASUREMENT

12.1 LIMIT

Item	Limits
Identification code	≧48 bits

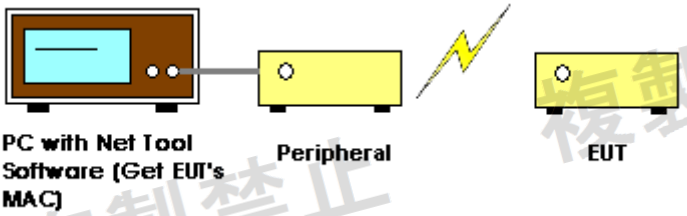
12.2 MEASURING ID CODE SOFTWARE

Item	Limits
MAC IP List	MAC Scan

12.3 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.

12.4 TEST SETUP LAYOUT



12.5 TEST DEVIATION

There is no deviation with the original standard.

12.6 EUT OPERATION DURING TEST

The EUT was programmed to be in normal transmitting mode.

12.7 TEST RESULT

EUT：	Camera	Model:	Prism 2
Temperature:	25°C	Tested by:	Joe Yan
Humidity:	55 % RH	Test result:	Compliance

Radio interface prevention function

	Normal voltage	Low voltage	High voltage
Result	OK	N/A	N/A

Mac address: 1A:24:52:33:41:22

Result: OK

複製禁止

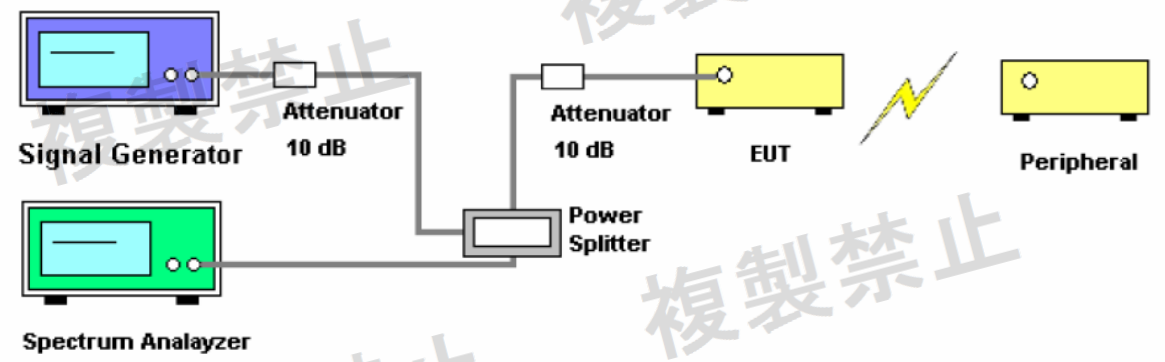
13 CARRIER SENSE CAPABILITY

13.1 LIMIT

EUT stop RF transmission signal after carrier inject to EUT

13.2 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.

13.3 TEST RESULT

Result	Normal Voltage	High Voltage	Low Voltage
802.11a	OK	/	/
802.11n	OK	/	/
802.11ac	OK	/	/

Pin=22.79+Gr-20*log(freq_MHz)[dBm]

Limit:100mw/m eirp

Confirmed at -50dBm

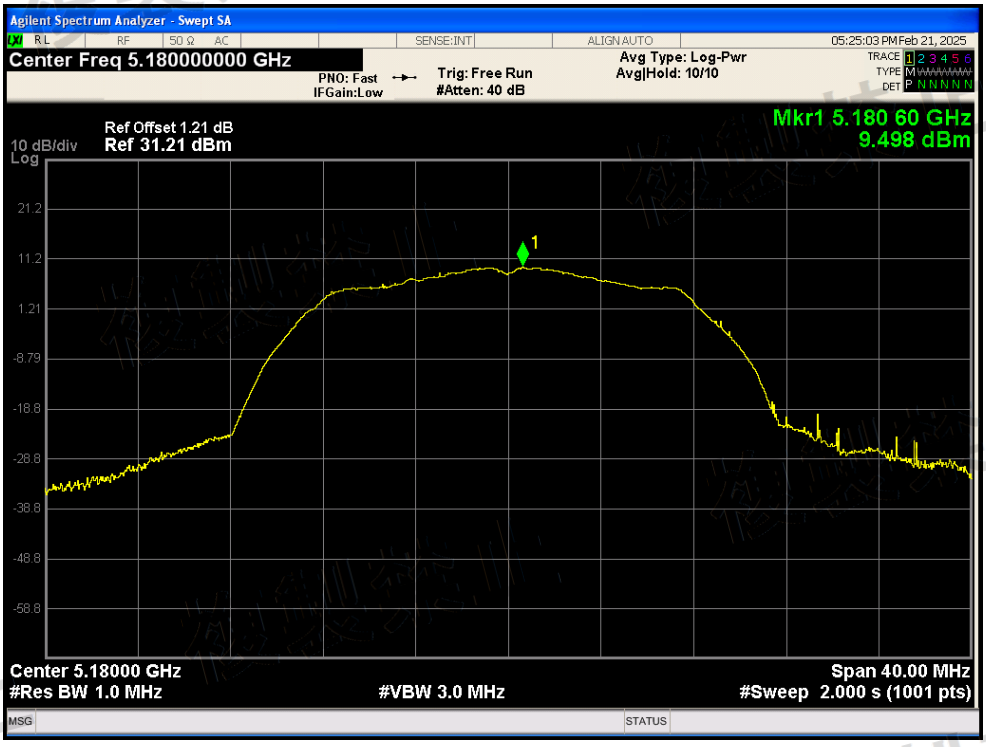
Result:OK

14. TEST RESULTS

14.1 ANTENNA AND EIRP POWER

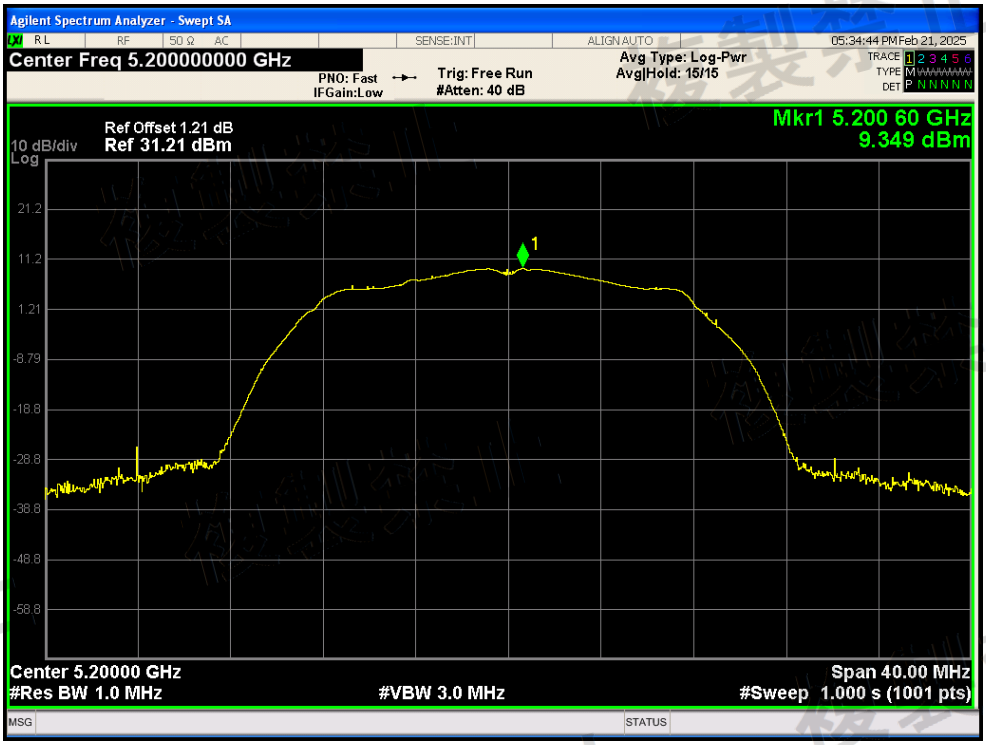
Condition	Mode	Frequency (MHz)	Antenna	Antenna Power (mW/MHz)	Declared Power (mW/MHz)	Tolerance (%)	Upper Limit (%)	Verdict
NVNT	a	5180	Ant1	1.34	1.5	-10.65	20	Pass
NVNT	a	5200	Ant1	1.291	1.5	-13.96	20	Pass
NVNT	a	5240	Ant1	1.204	1.5	-19.7	20	Pass
NVNT	ac20	5180	Ant1	1.115	2	-44.23	20	Pass
NVNT	ac20	5200	Ant1	1.005	2	-49.75	20	Pass
NVNT	ac20	5240	Ant1	0.669	2	-66.57	20	Pass
NVNT	ac40	5190	Ant1	0.541	1	-45.87	20	Pass
NVNT	ac40	5230	Ant1	0.414	1	-58.65	20	Pass
NVNT	ac80	5210	Ant1	0.259	0.8	-67.59	20	Pass
NVNT	n20	5180	Ant1	1.181	1	18.11	20	Pass
NVNT	n20	5200	Ant1	0.922	1	-7.76	20	Pass
NVNT	n20	5240	Ant1	0.709	1	-29.09	20	Pass
NVNT	n40	5190	Ant1	0.502	1	-49.84	20	Pass
NVNT	n40	5230	Ant1	0.376	1	-62.38	20	Pass

Power NVNT a 5180MHz Ant1 Pre Scan



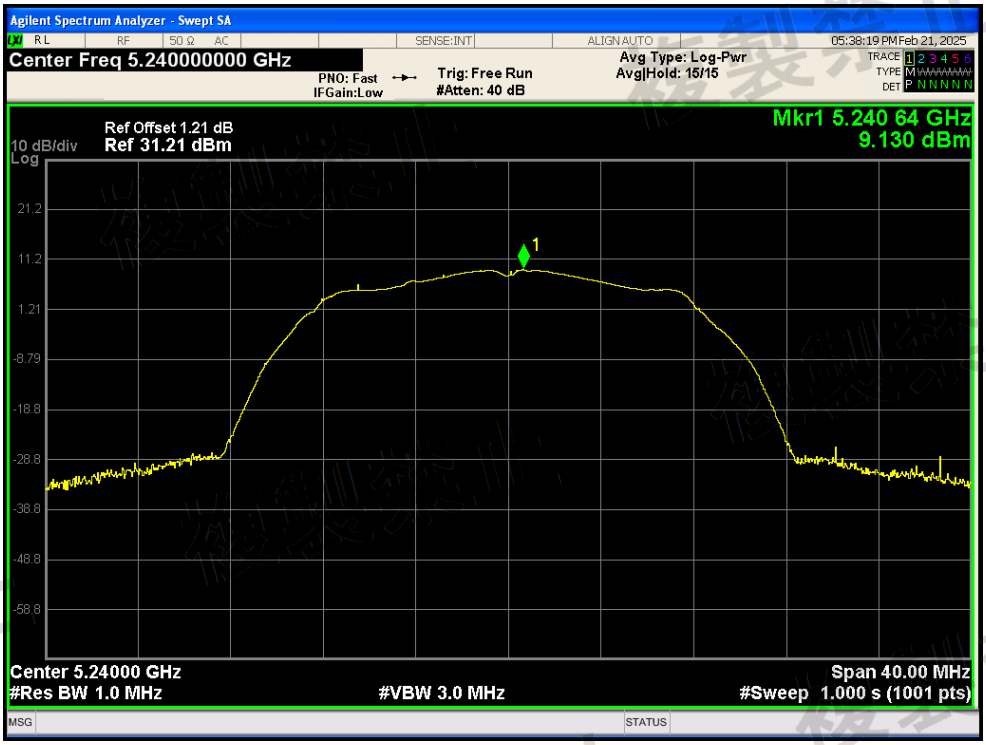
Power NVNT a 5180MHz Ant1 Zero Span

Power NVNT a 5200MHz Ant1 Pre Scan



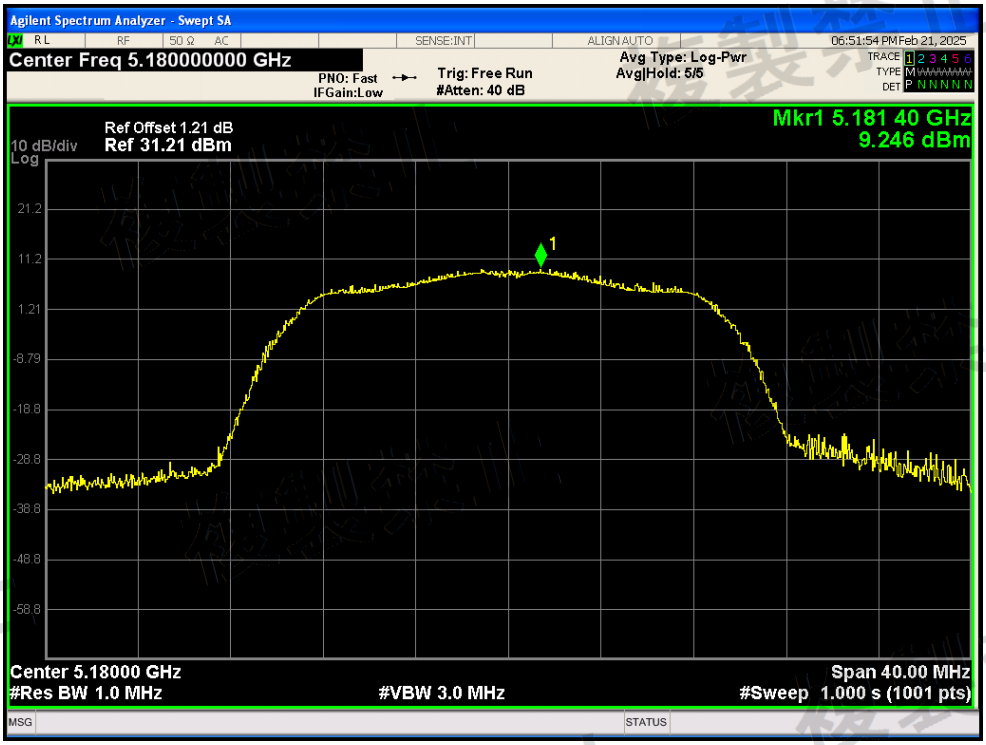
Power NVNT a 5200MHz Ant1 Zero Span

Power NVNT a 5240MHz Ant1 Pre Scan



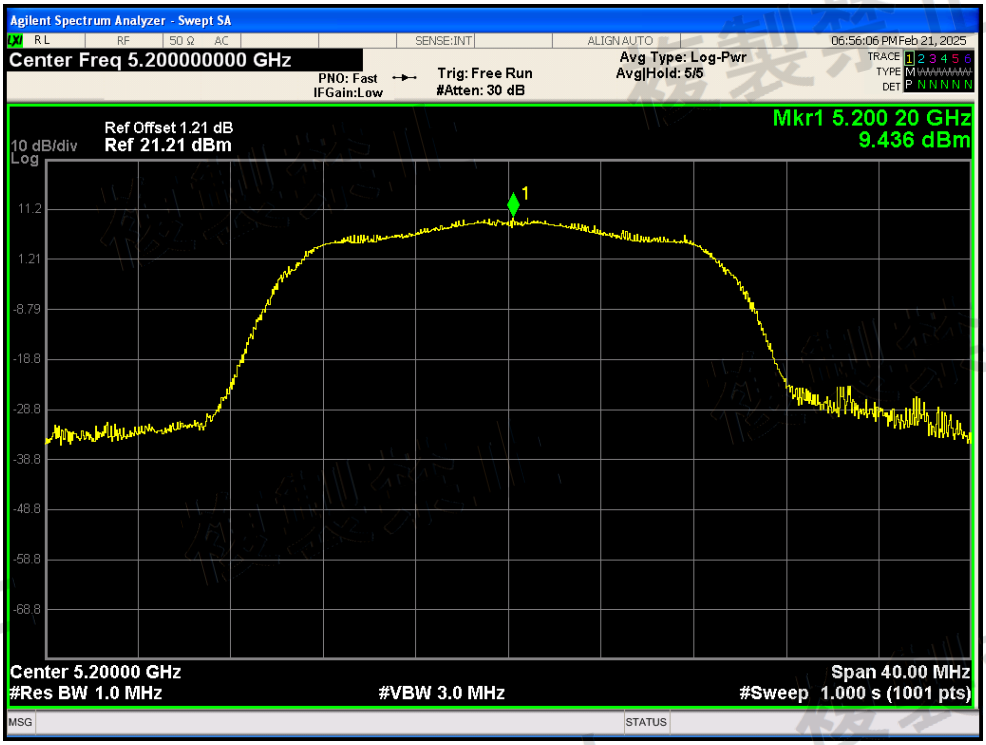
Power NVNT a 5240MHz Ant1 Zero Span

Power NVNT ac20 5180MHz Ant1 Pre Scan

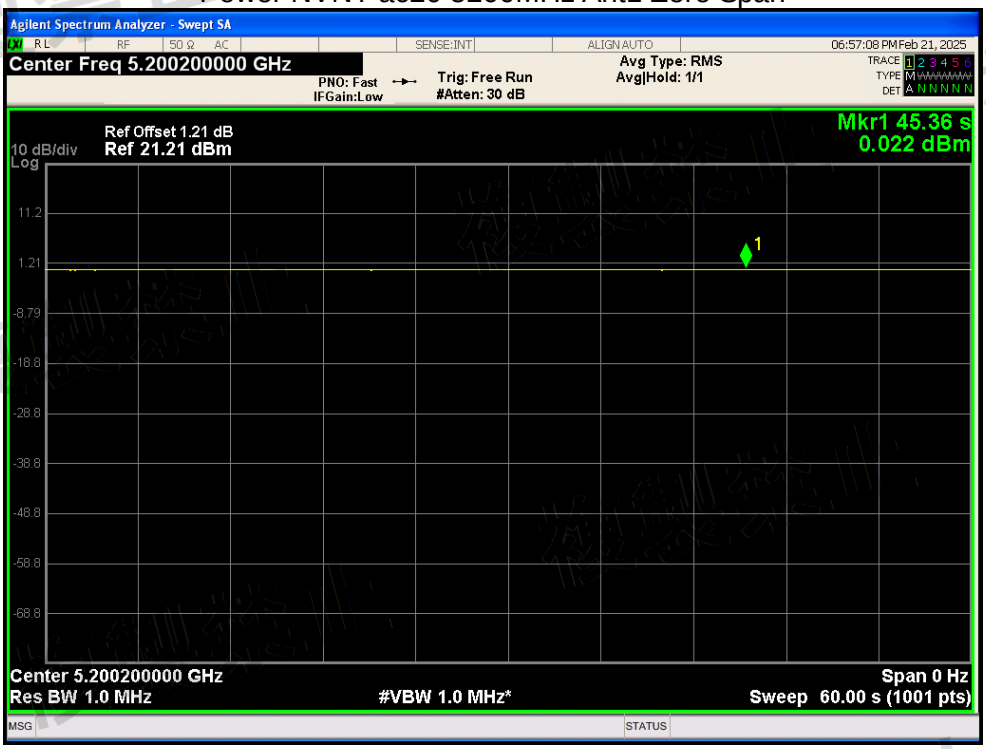


Power NVNT ac20 5180MHz Ant1 Zero Span

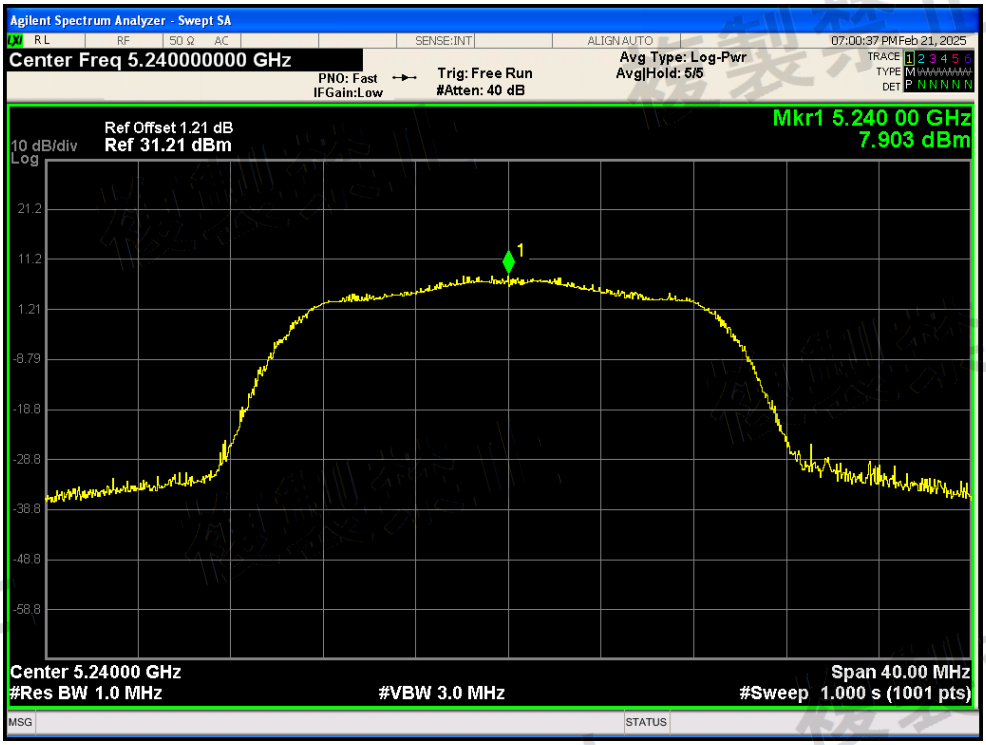
Power NVNT ac20 5200MHz Ant1 Pre Scan



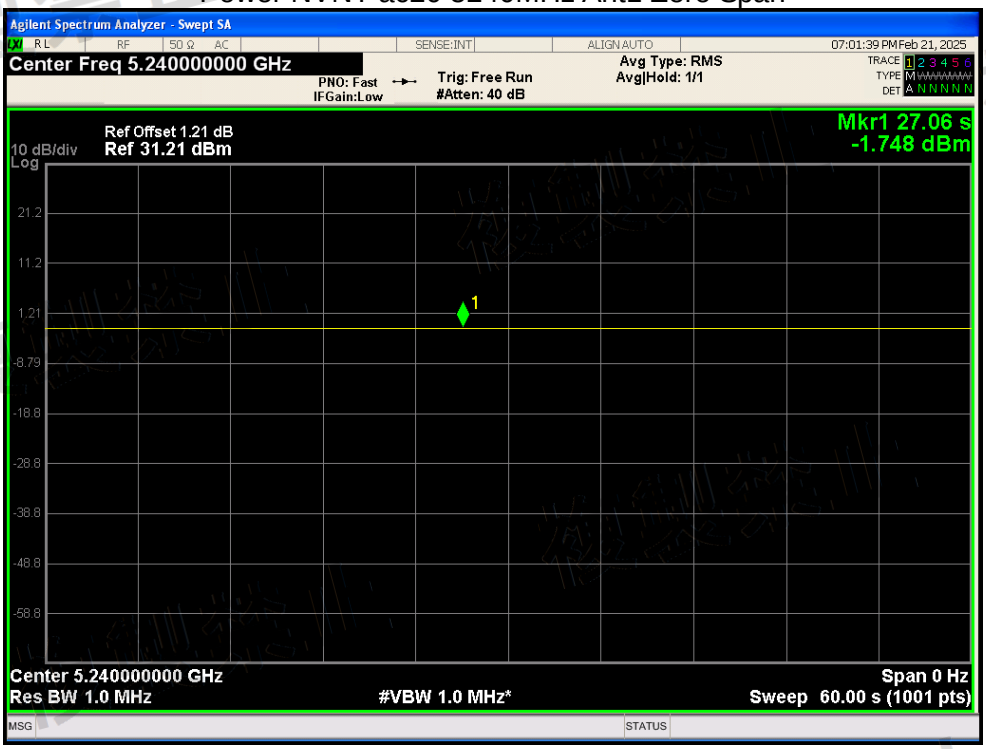
Power NVNT ac20 5200MHz Ant1 Zero Span



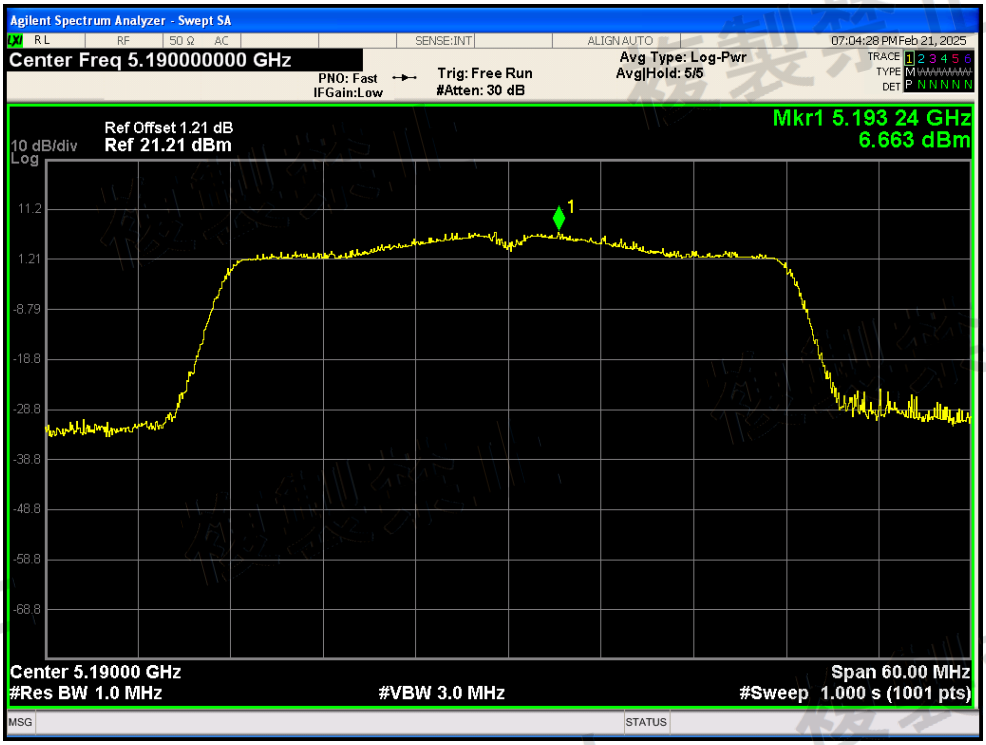
Power NVNT ac20 5240MHz Ant1 Pre Scan



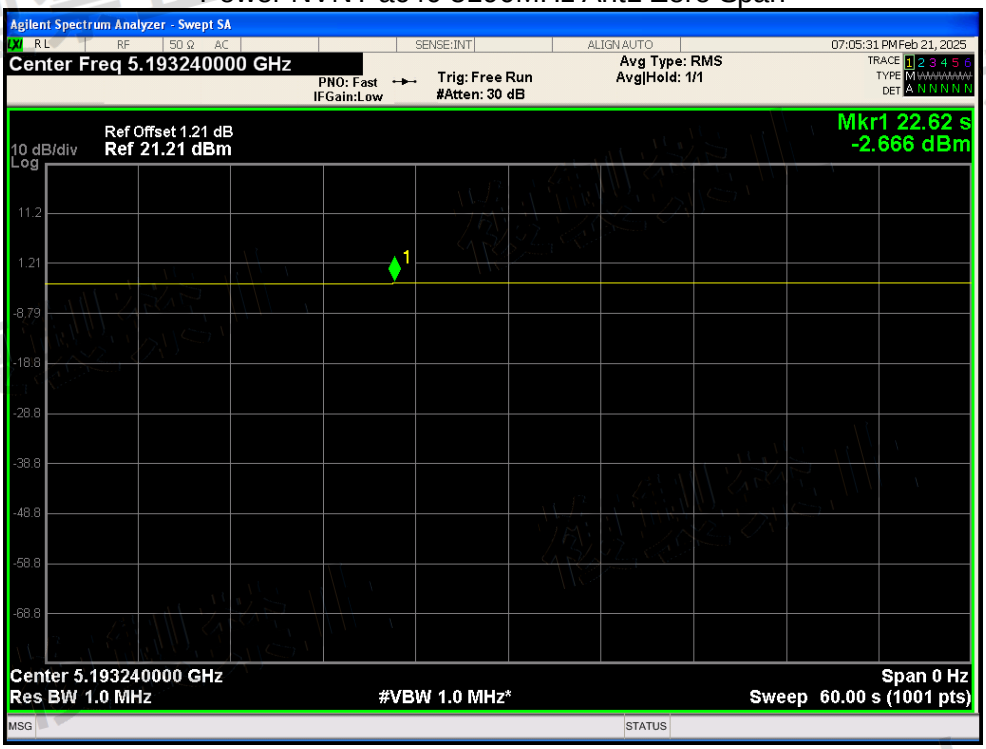
Power NVNT ac20 5240MHz Ant1 Zero Span



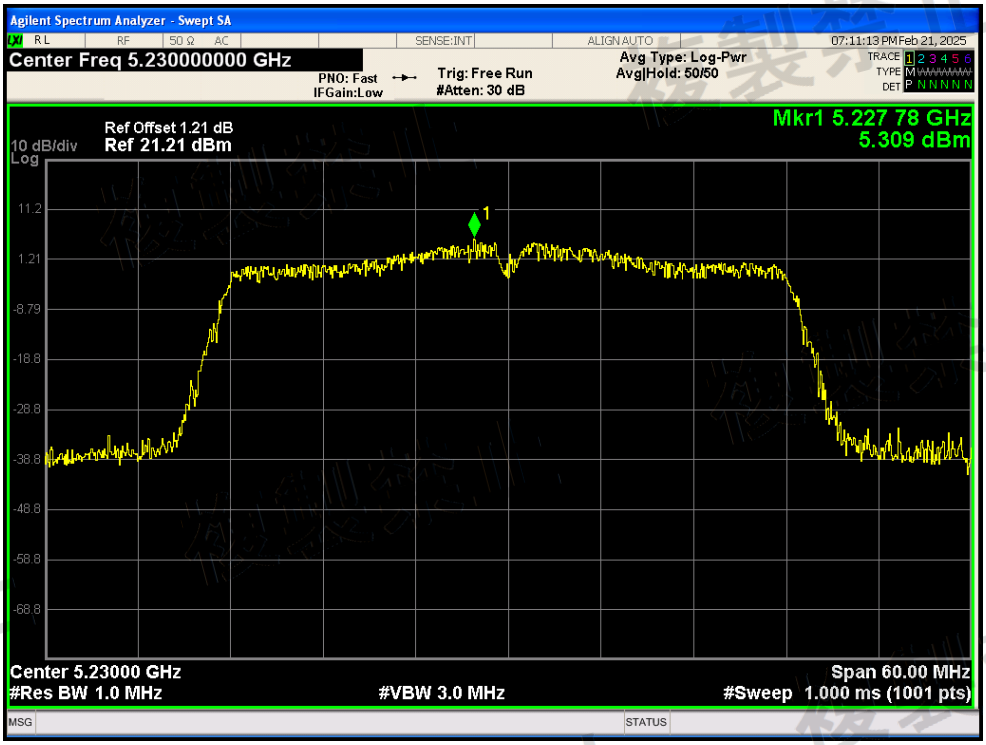
Power NVNT ac40 5190MHz Ant1 Pre Scan



Power NVNT ac40 5190MHz Ant1 Zero Span



Power NVNT ac40 5230MHz Ant1 Pre Scan



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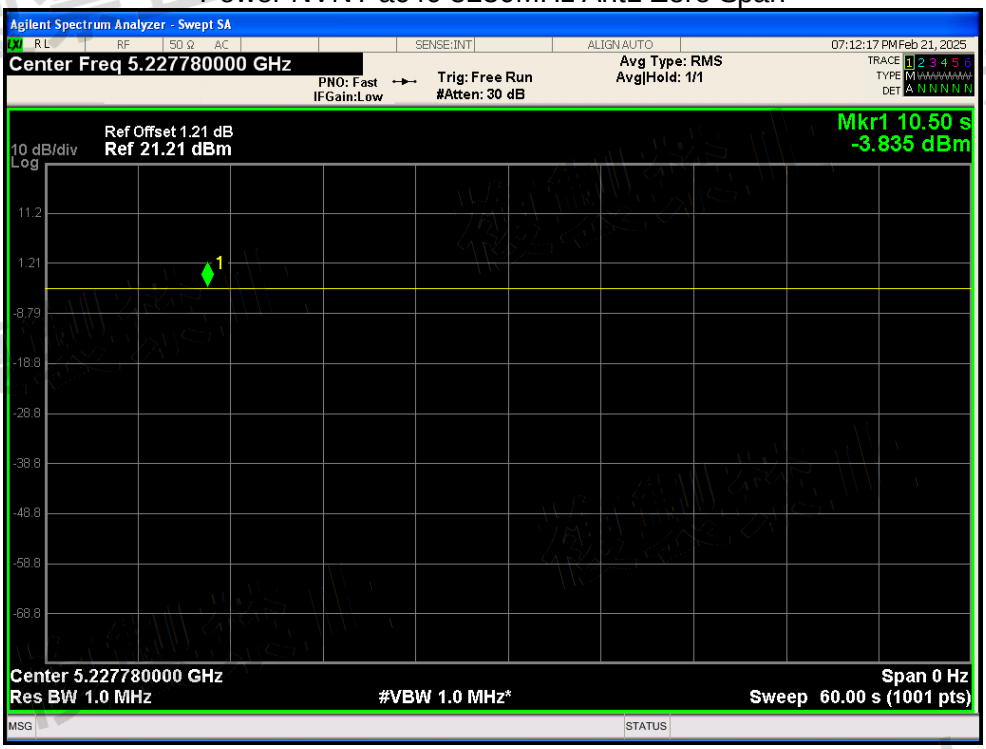
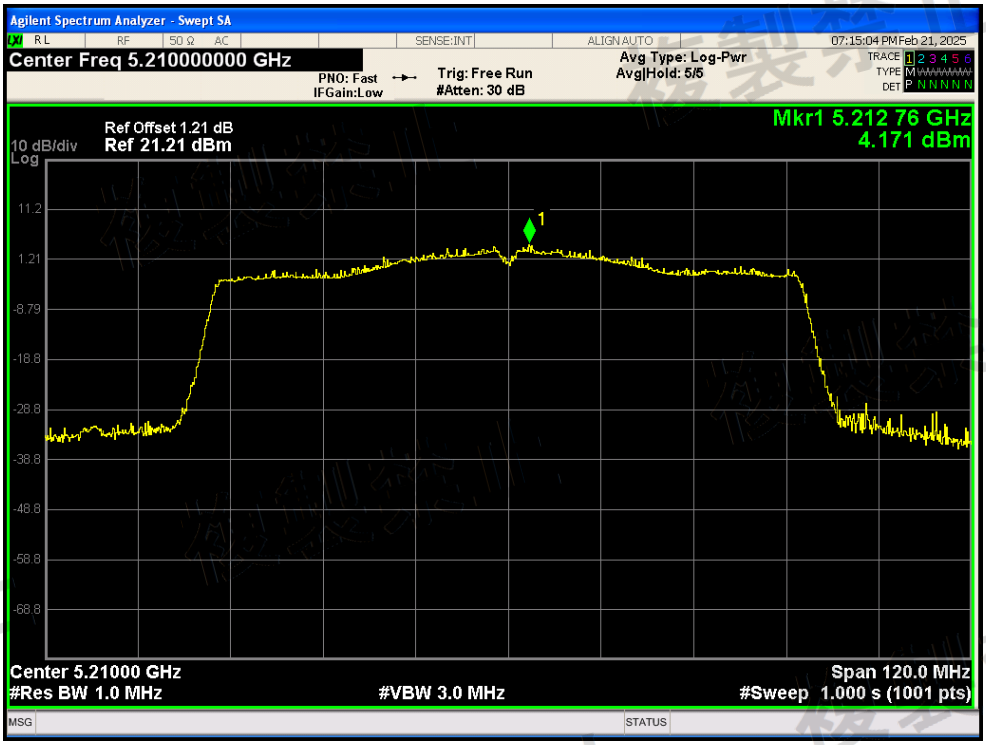
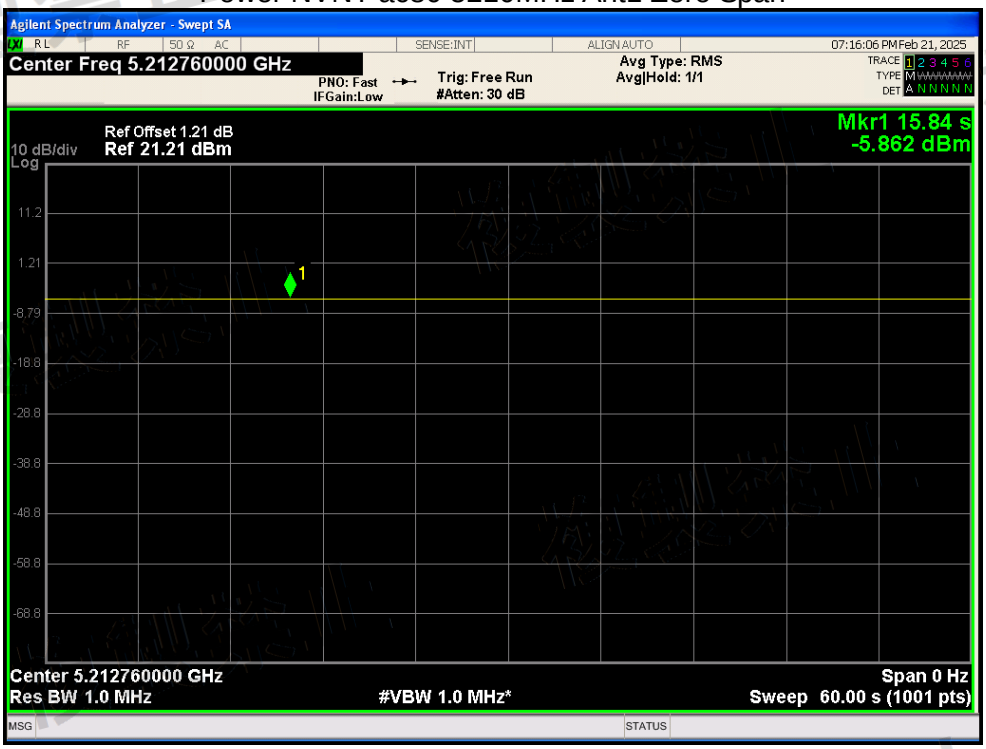


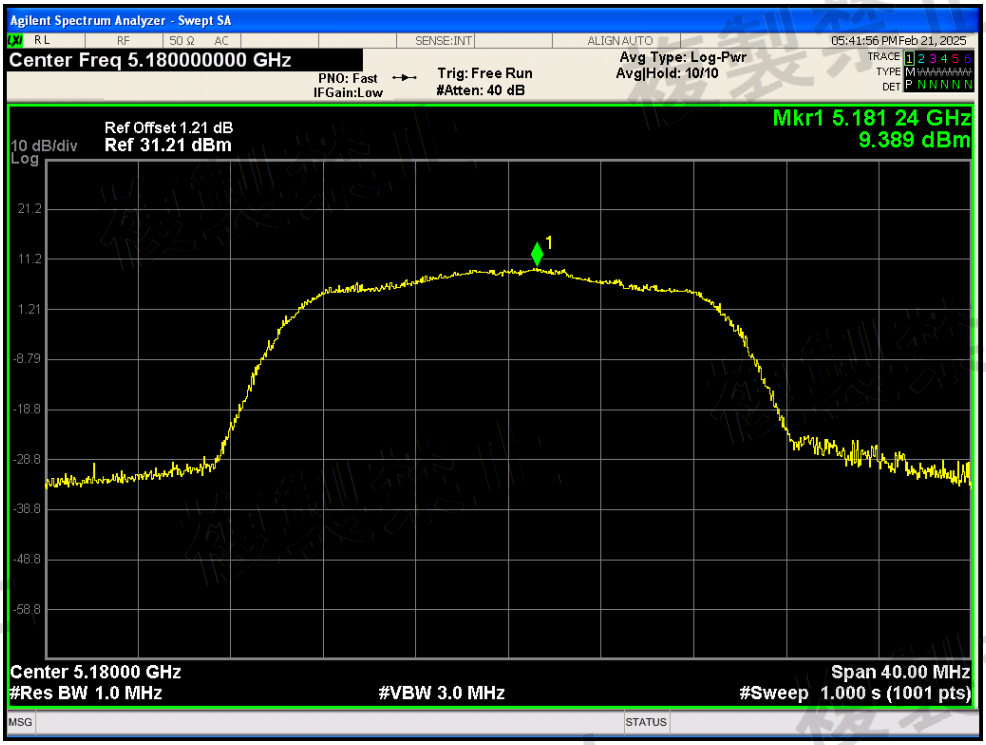
Power NVNT ac80 5210MHz Ant1 Pre Scan



Power NVNT ac80 5210MHz Ant1 Zero Span

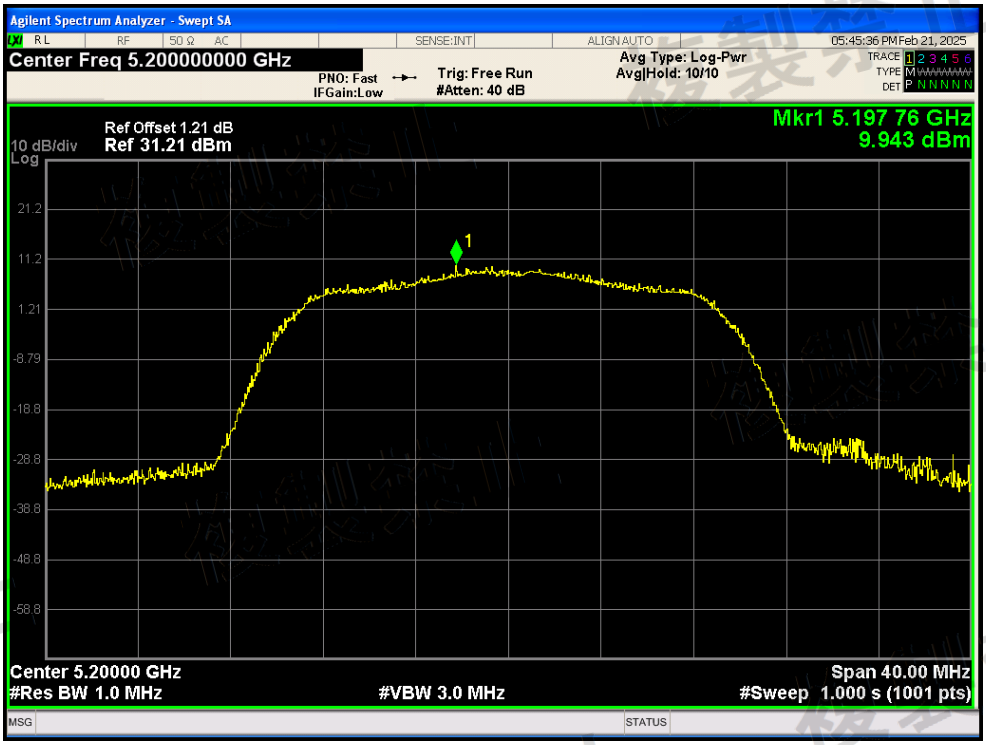


Power NVNT n20 5180MHz Ant1 Pre Scan

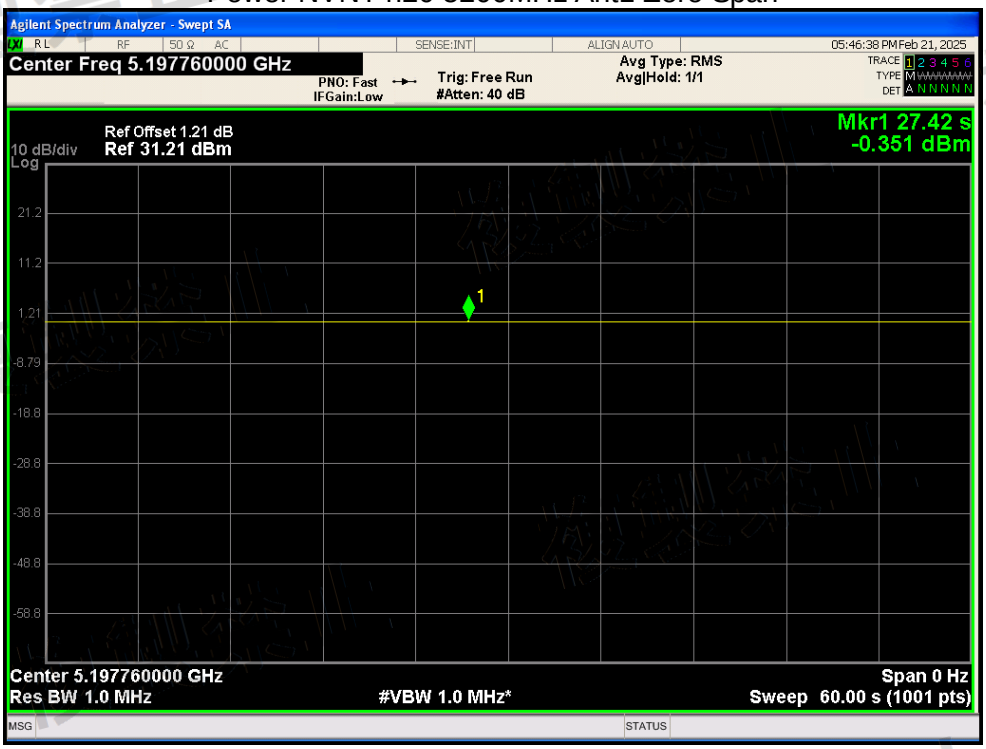


Power NVNT n20 5180MHz Ant1 Zero Span

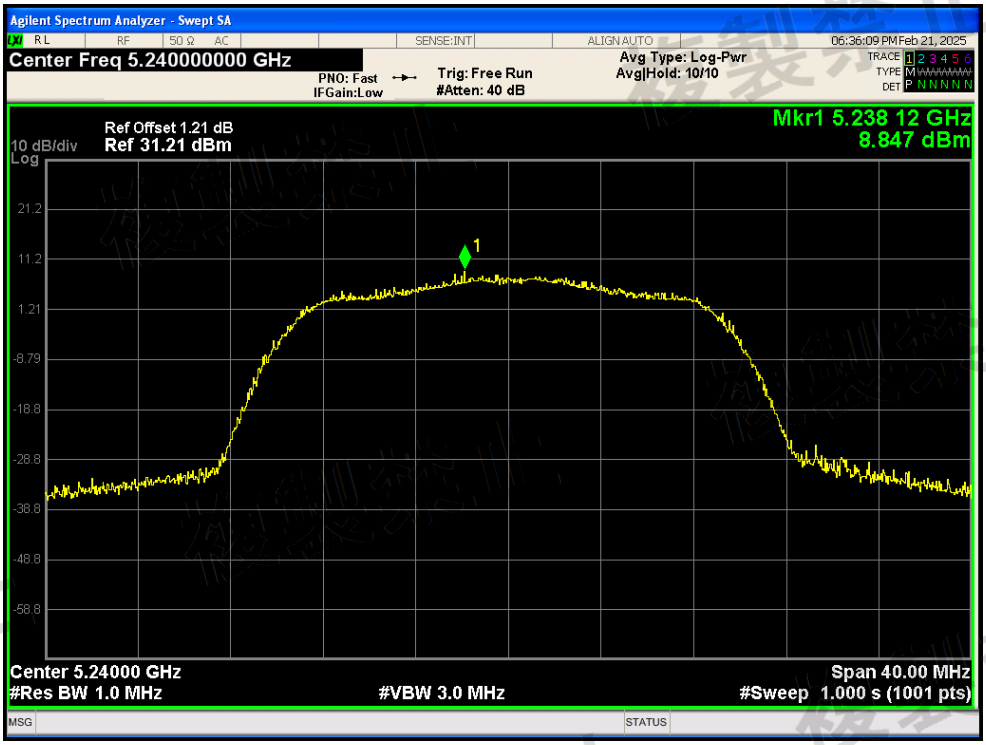
Power NVNT n20 5200MHz Ant1 Pre Scan



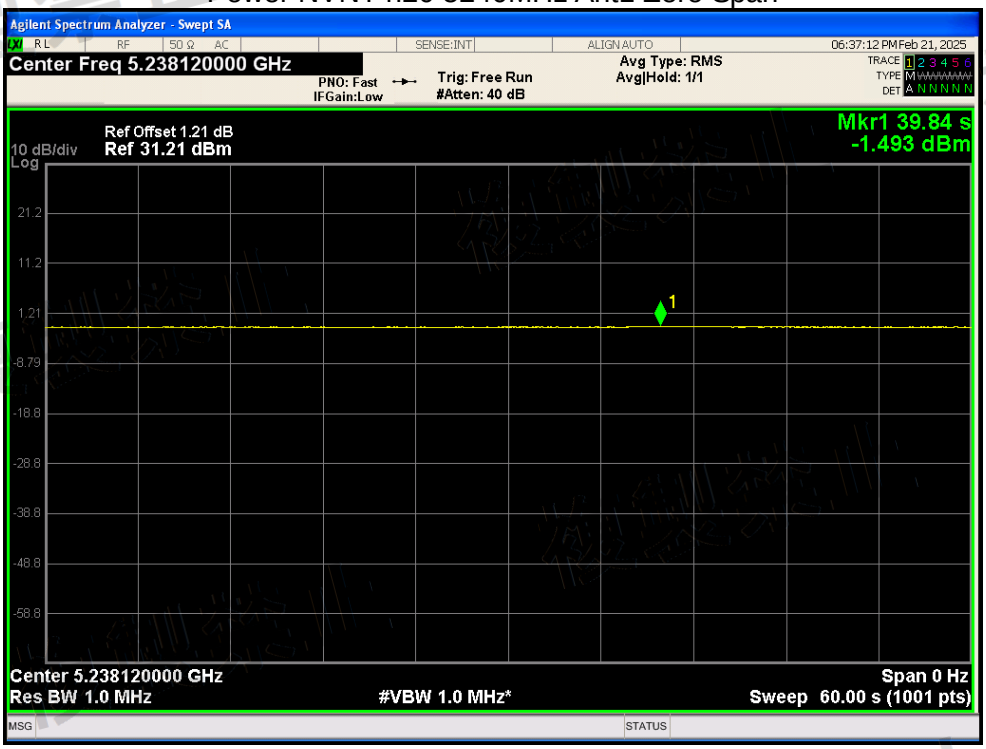
Power NVNT n20 5200MHz Ant1 Zero Span



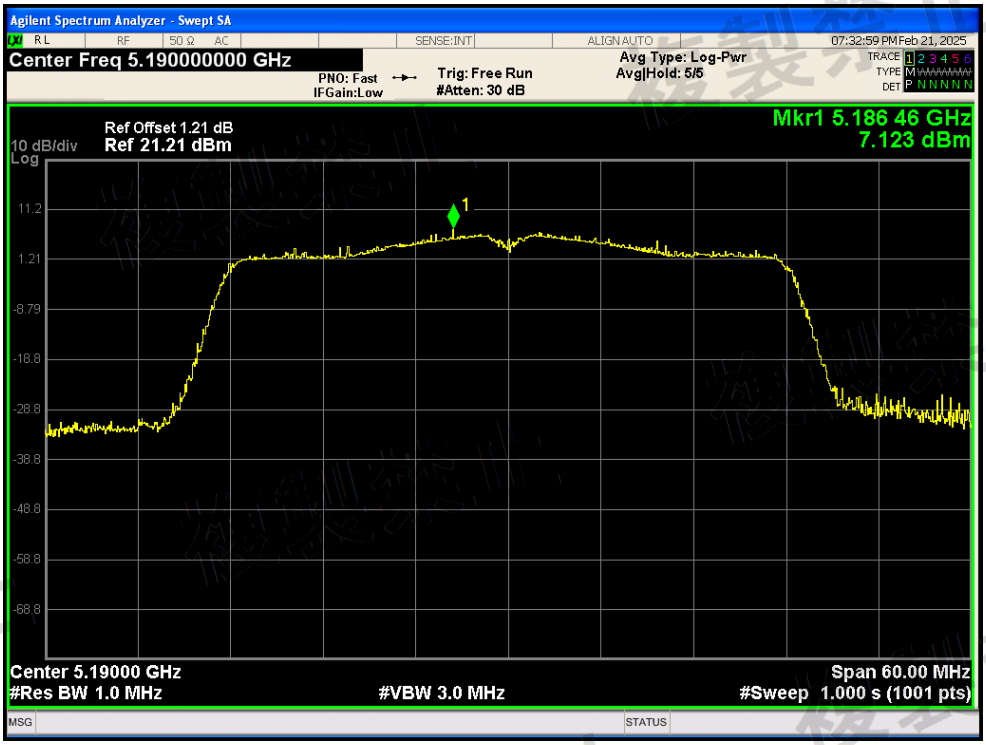
Power NVNT n20 5240MHz Ant1 Pre Scan



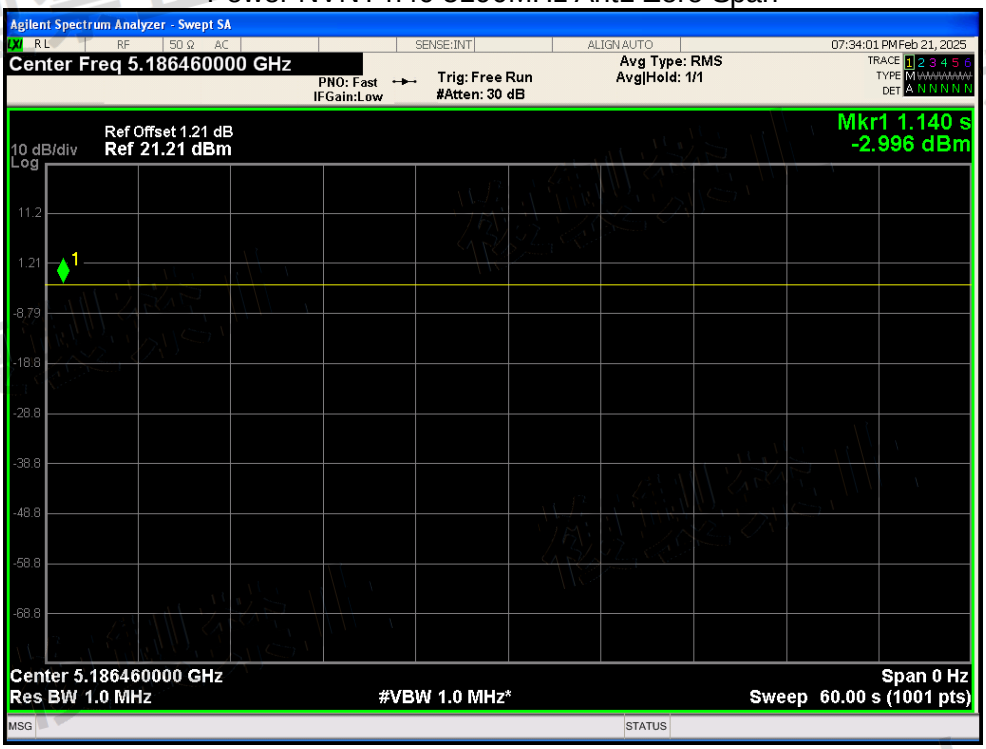
Power NVNT n20 5240MHz Ant1 Zero Span



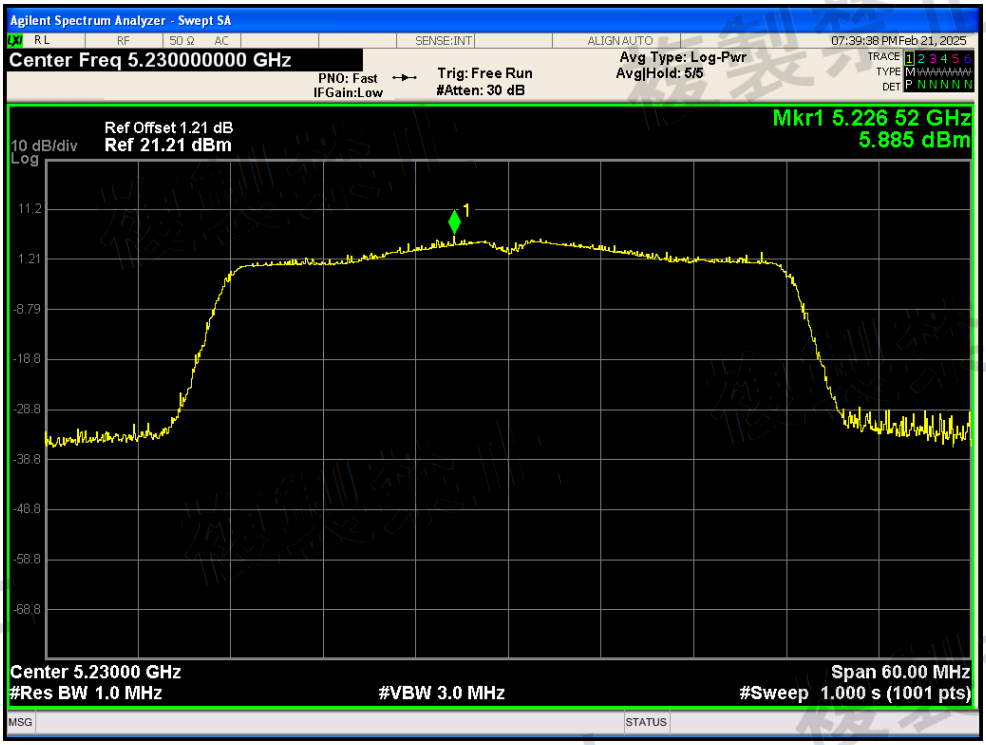
Power NVNT n40 5190MHz Ant1 Pre Scan



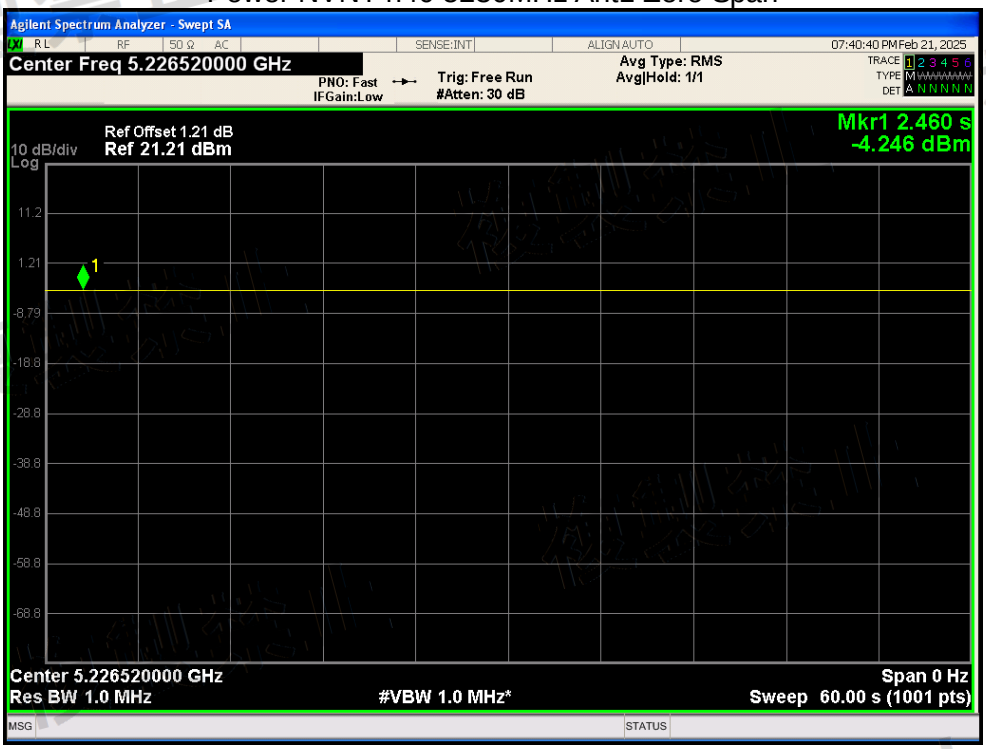
Power NVNT n40 5190MHz Ant1 Zero Span



Power NVNT n40 5230MHz Ant1 Pre Scan



Power NVNT n40 5230MHz Ant1 Zero Span



14.2 EIRP POWER

Condition	Mode	Frequency (MHz)	Antenna	Antenna Power (mW/MHz)	Gain (dBi)	EIRP Power (mW/MHz)	Limit (mW/MHz)	Verdict
NVNT	a	5180	Ant1	1.34	2.3	2.276	10	Pass
NVNT	a	5200	Ant1	1.291	2.3	2.192	10	Pass
NVNT	a	5240	Ant1	1.204	2.3	2.045	10	Pass
NVNT	ac20	5180	Ant1	1.115	2.3	1.894	10	Pass
NVNT	ac20	5200	Ant1	1.005	2.3	1.707	10	Pass
NVNT	ac20	5240	Ant1	0.669	2.3	1.136	10	Pass
NVNT	ac40	5190	Ant1	0.541	2.3	0.919	5	Pass
NVNT	ac40	5230	Ant1	0.414	2.3	0.703	5	Pass
NVNT	ac80	5210	Ant1	0.259	2.3	0.440	2.5	Pass
NVNT	n20	5180	Ant1	1.181	2.3	2.006	10	Pass
NVNT	n20	5200	Ant1	0.922	2.3	1.566	10	Pass
NVNT	n20	5240	Ant1	0.709	2.3	1.204	10	Pass
NVNT	n40	5190	Ant1	0.502	2.3	0.853	5	Pass
NVNT	n40	5230	Ant1	0.376	2.3	0.639	5	Pass

14.3 OCCUPIED CHANNEL BANDWIDTH

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)	Limit (MHz)	Verdict
NVNT	a	5180	Ant1	16.654	20	Pass
NVNT	a	5200	Ant1	16.667	20	Pass
NVNT	a	5240	Ant1	16.671	20	Pass
NVNT	ac20	5180	Ant1	17.811	20	Pass
NVNT	ac20	5200	Ant1	17.787	20	Pass
NVNT	ac20	5240	Ant1	17.809	20	Pass
NVNT	ac40	5190	Ant1	35.981	40	Pass
NVNT	ac40	5230	Ant1	35.959	40	Pass
NVNT	ac80	5210	Ant1	75.411	80	Pass
NVNT	n20	5180	Ant1	17.756	20	Pass
NVNT	n20	5200	Ant1	17.808	20	Pass
NVNT	n20	5240	Ant1	17.789	20	Pass
NVNT	n40	5190	Ant1	36.019	40	Pass
NVNT	n40	5230	Ant1	35.947	40	Pass

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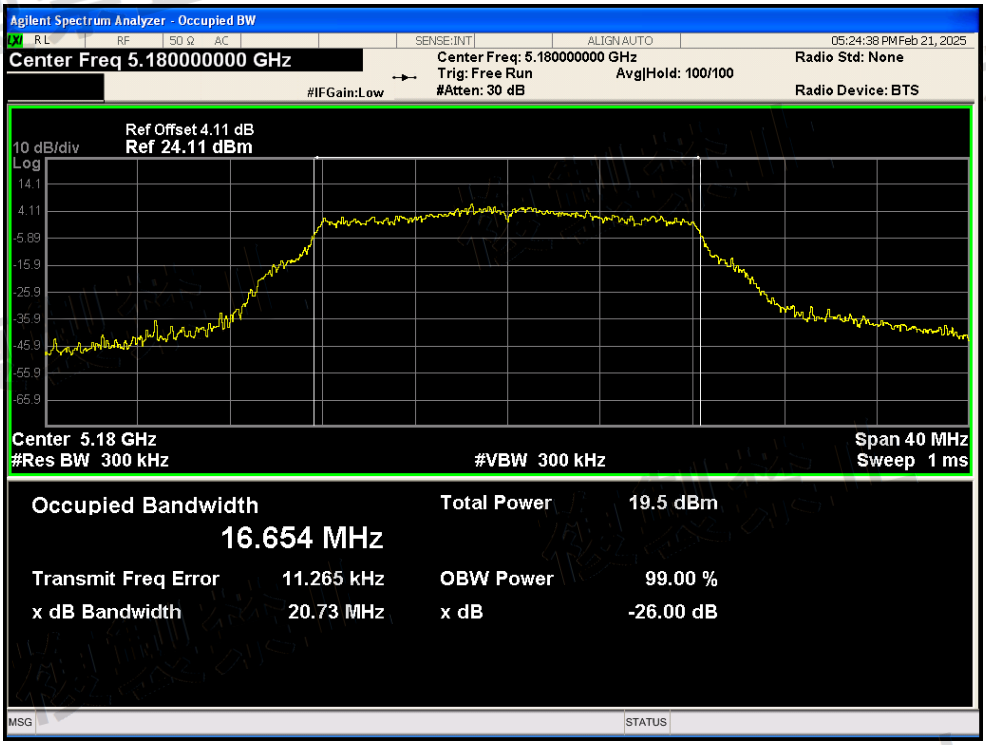
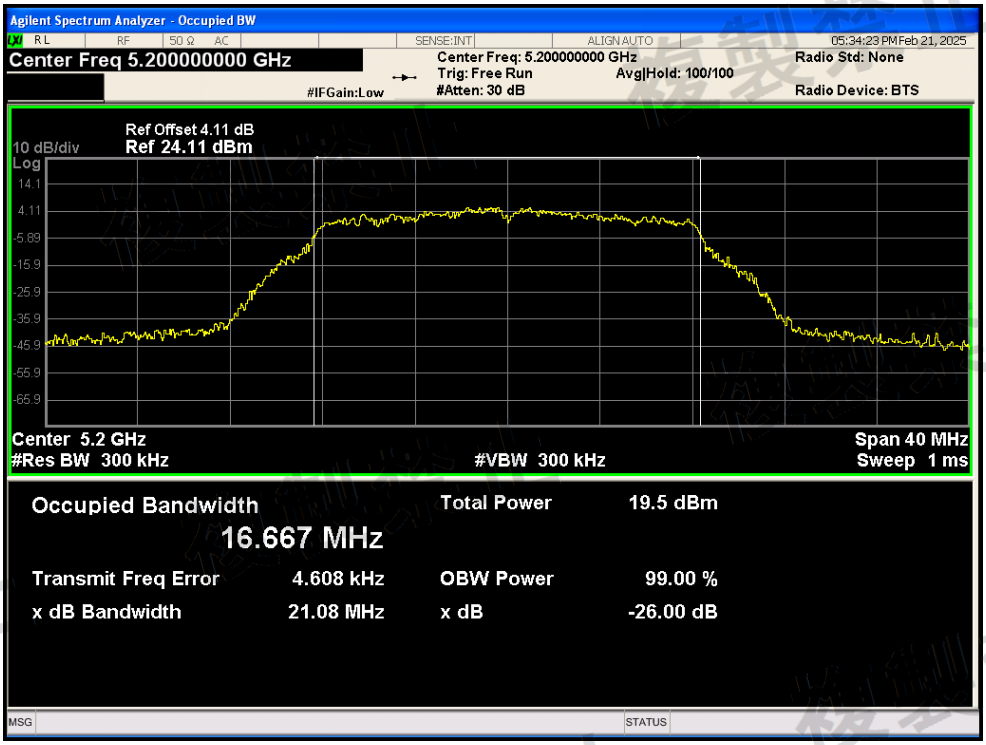
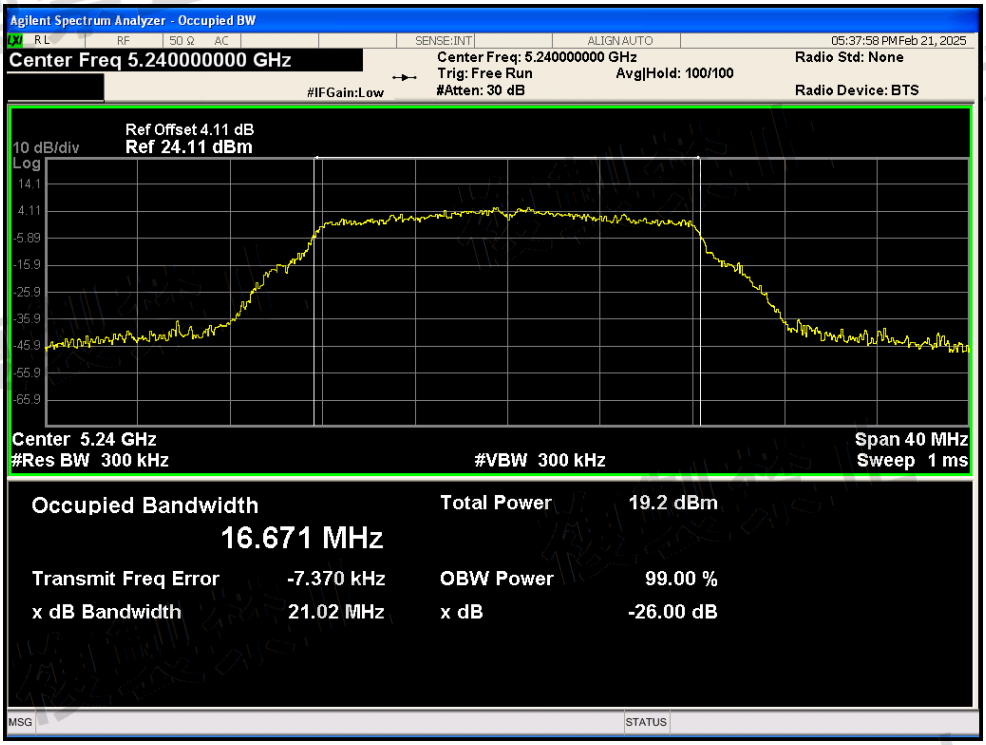
OBW NVNT a 5180MHz Ant1



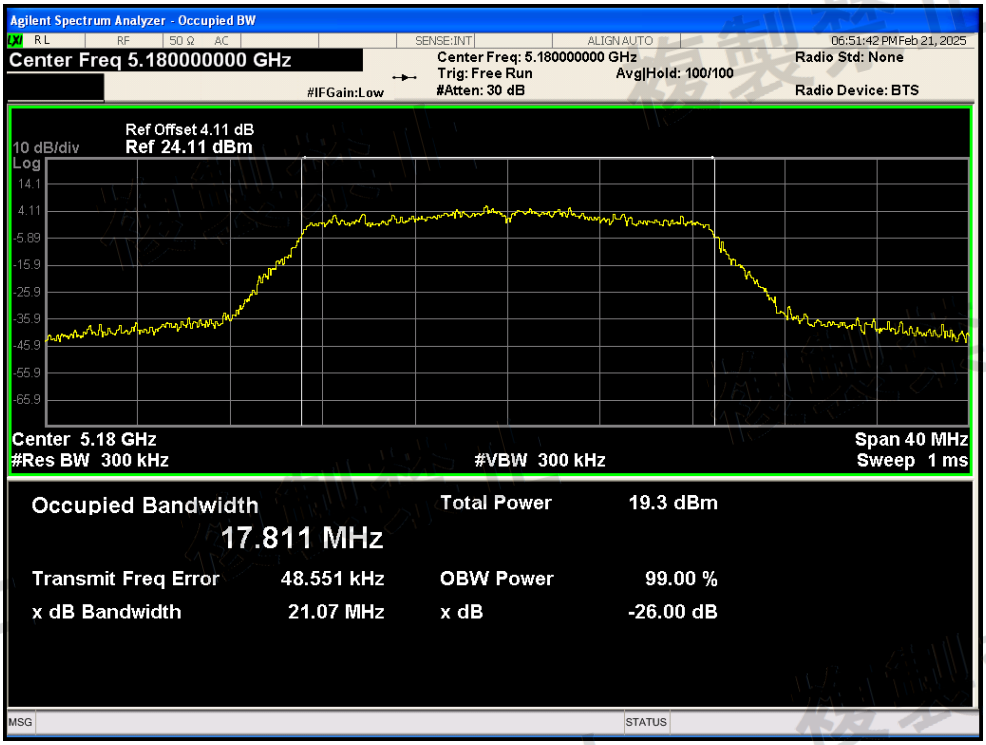
OBW NVNT a 5200MHz Ant1



OBW NVNT a 5240MHz Ant1



OBW NVNT ac20 5180MHz Ant1



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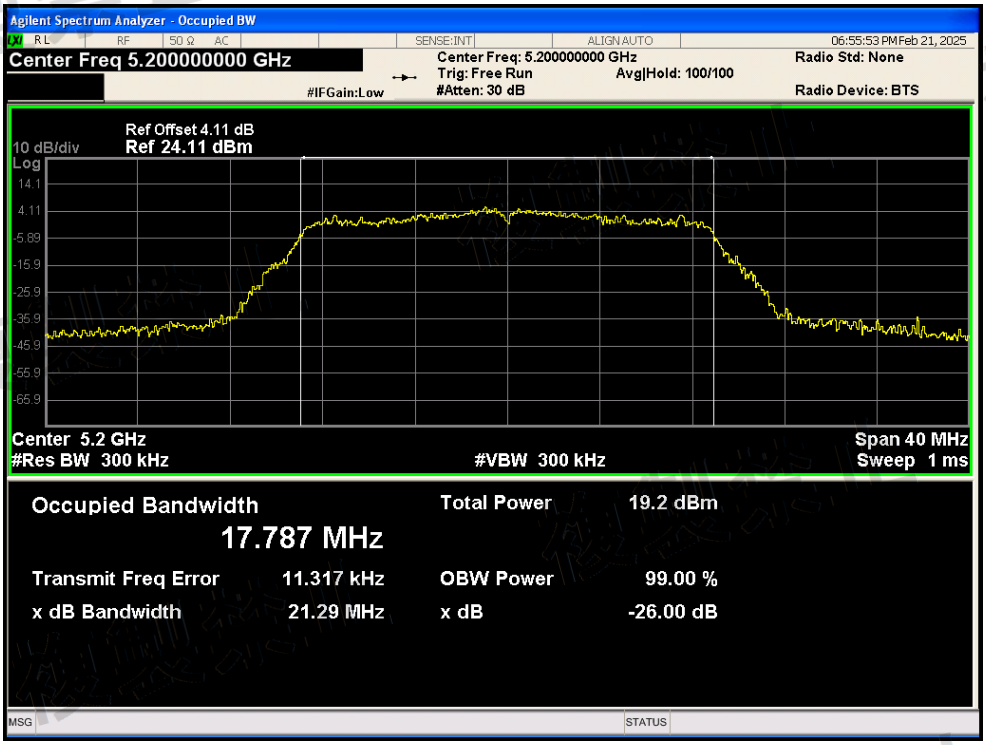
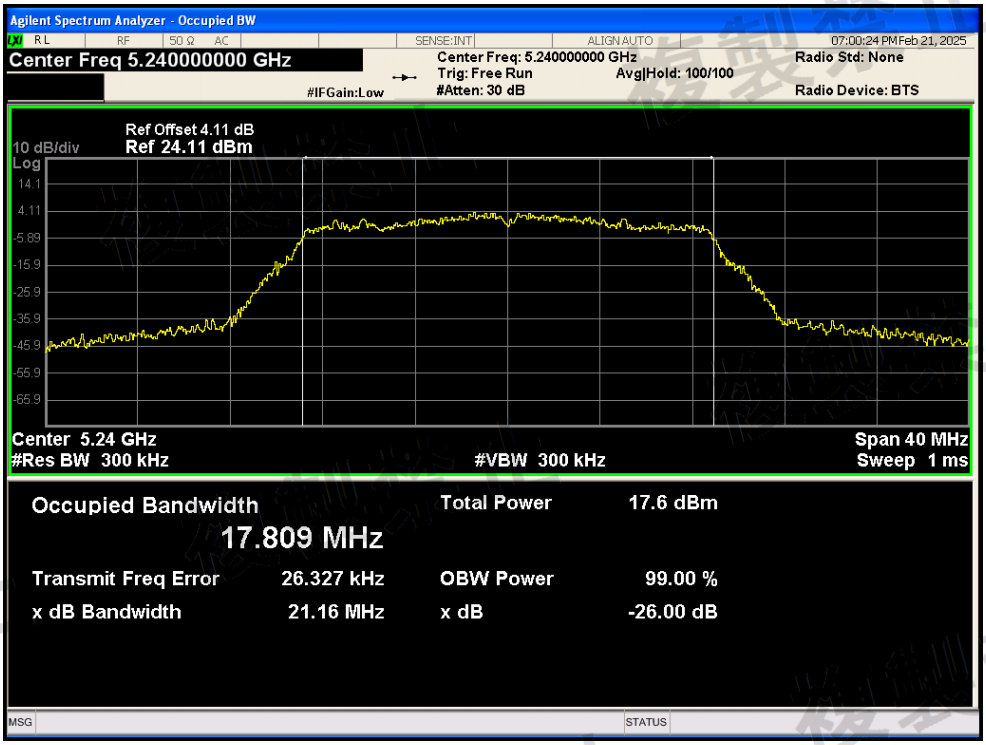
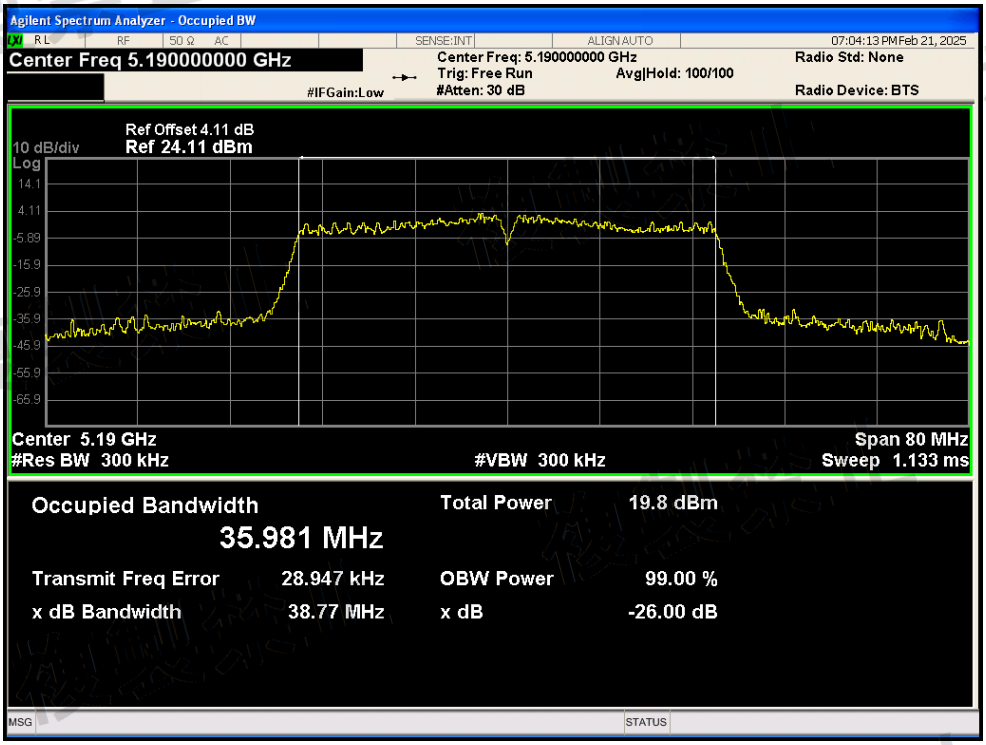


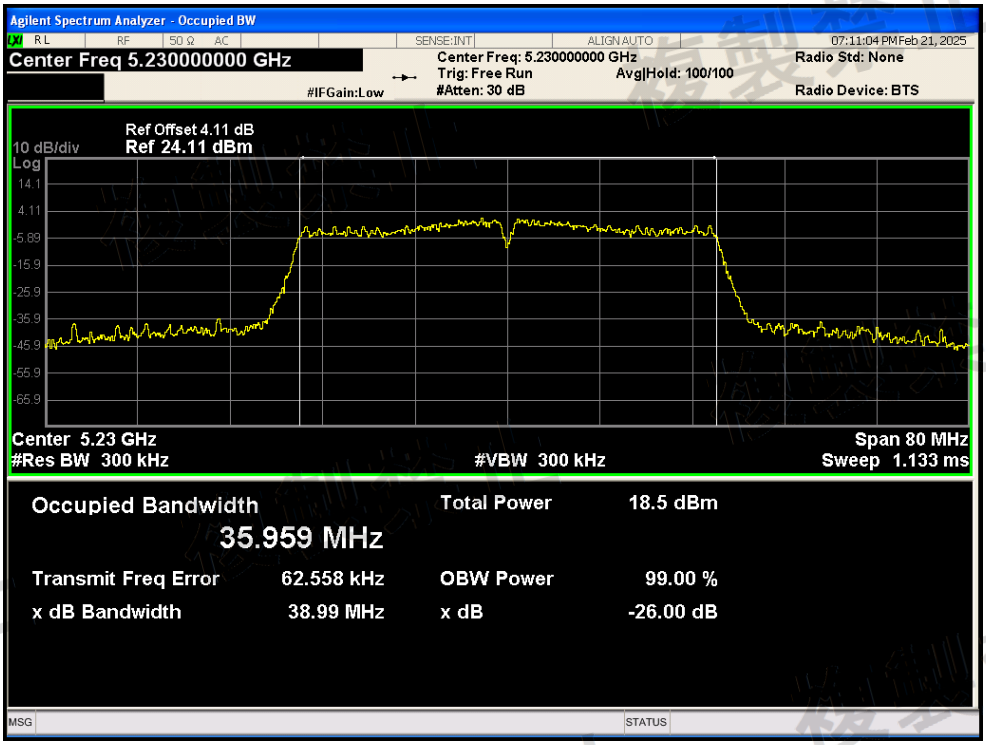
OBW NVNT ac20 5240MHz Ant1



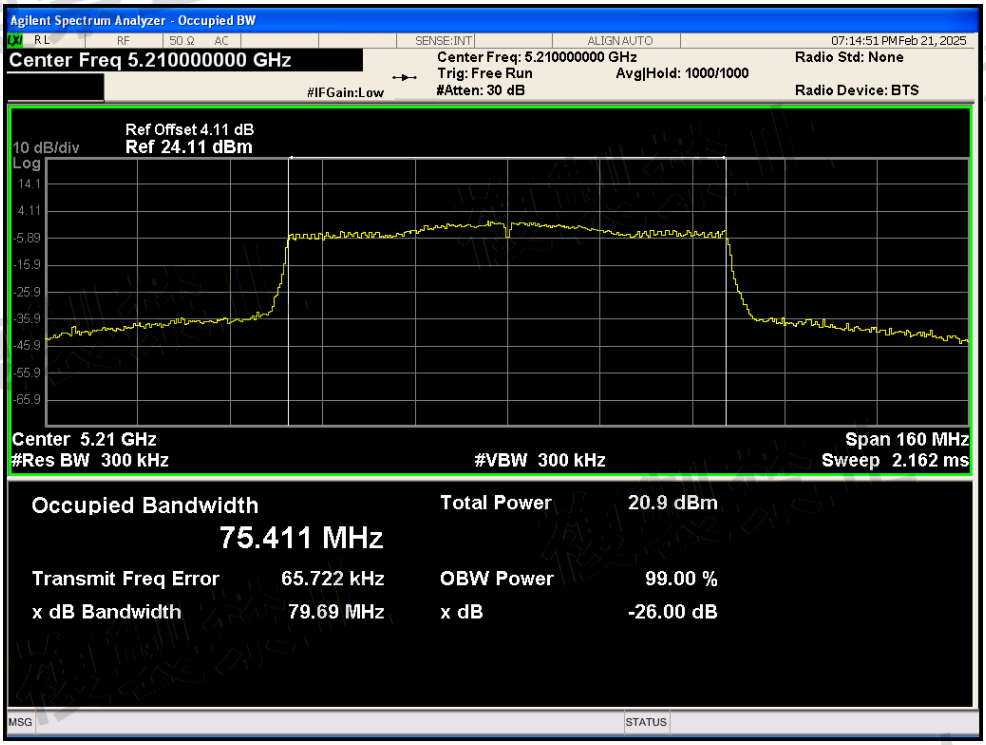
OBW NVNT ac40 5190MHz Ant1



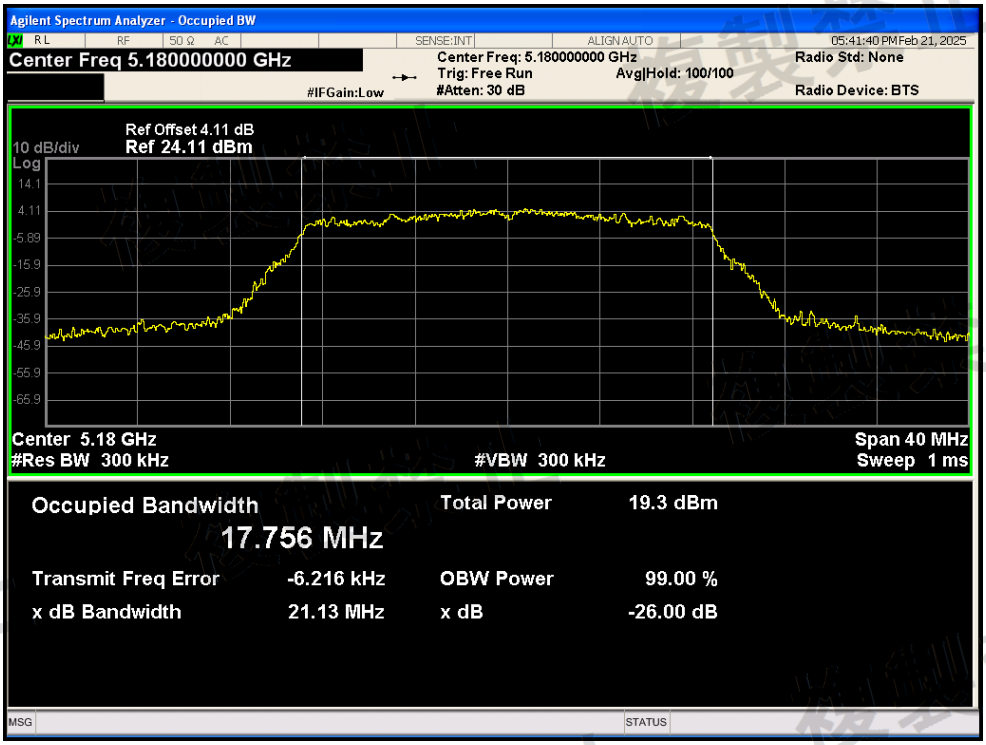
OBW NVNT ac40 5230MHz Ant1



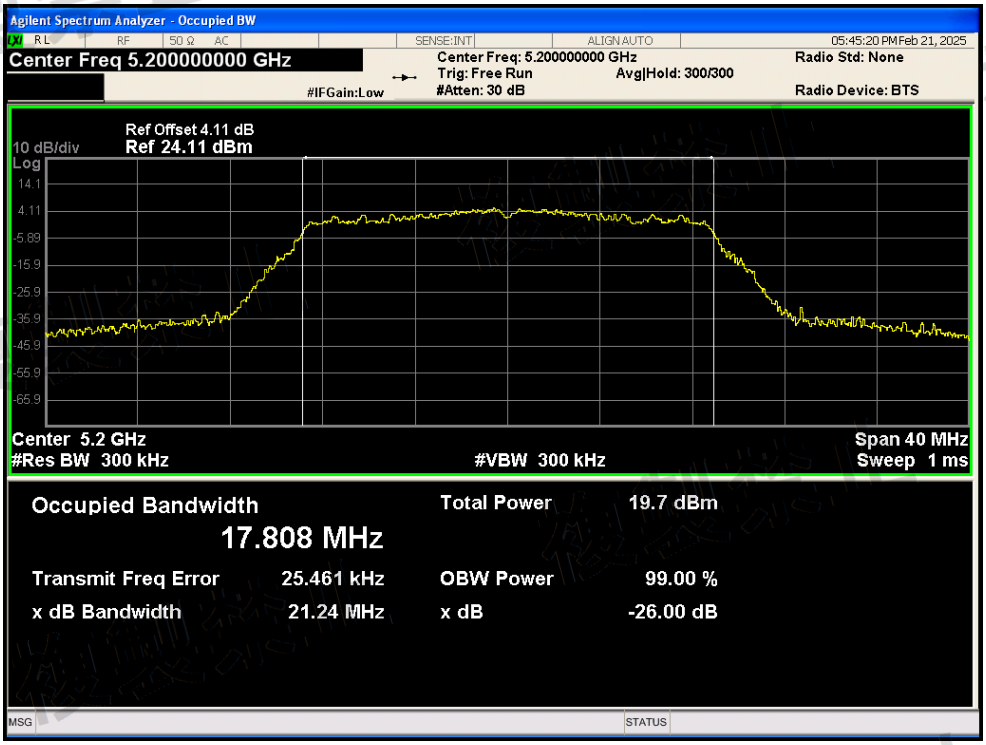
OBW NVNT ac80 5210MHz Ant1



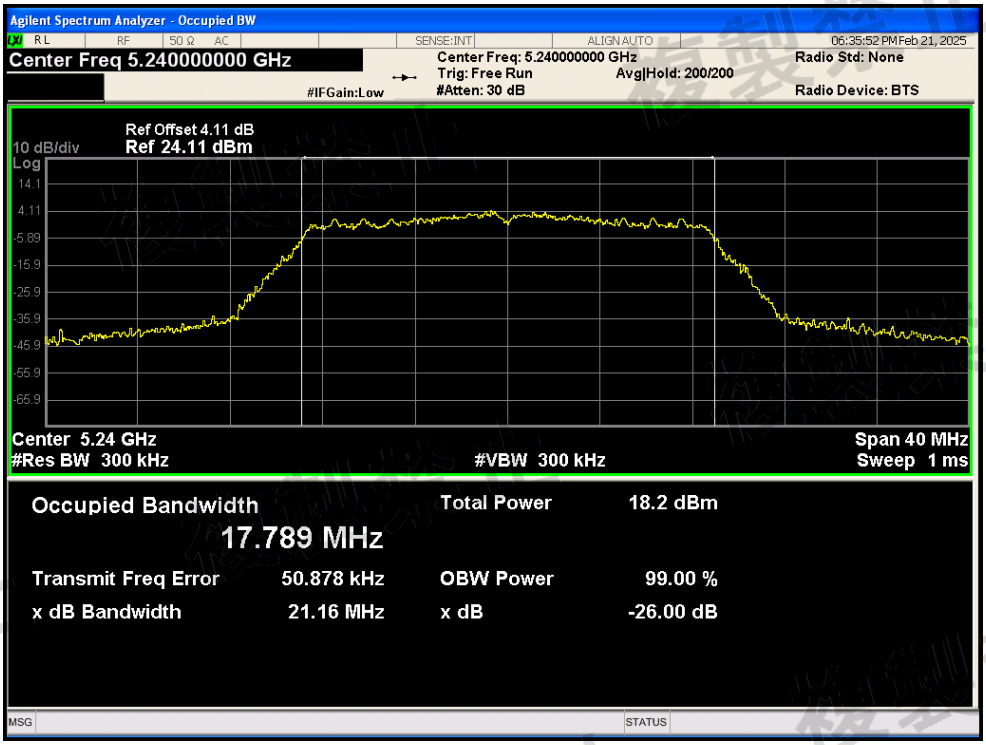
OBW NVNT n20 5180MHz Ant1



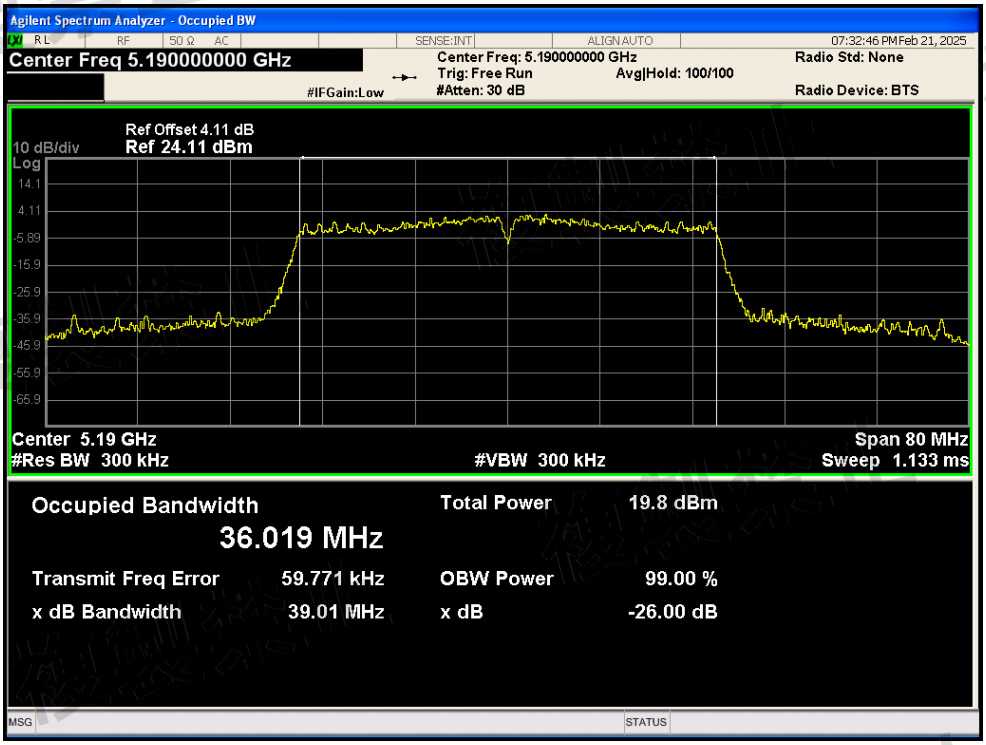
OBW NVNT n20 5200MHz Ant1



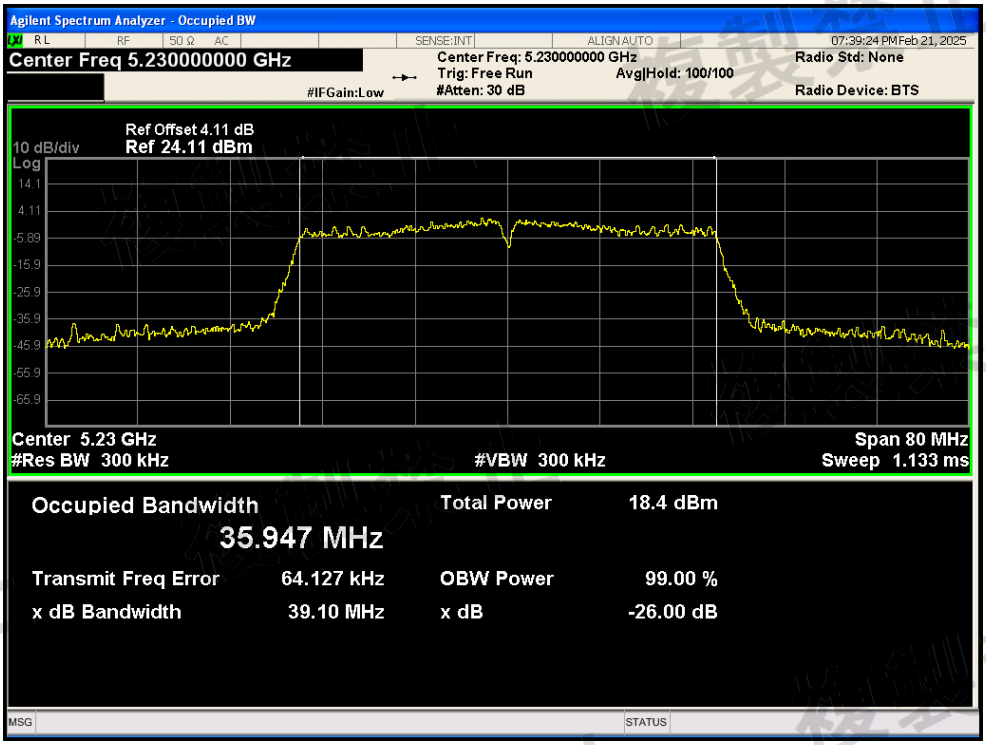
OBW NVNT n20 5240MHz Ant1



OBW NVNT n40 5190MHz Ant1



OBW NVNT n40 5230MHz Ant1



14.4 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	a	5180	Ant1	30-5142	5141.62	-43.33	0.0465	2.5	2.5	Pass
NVNT	a	5180	Ant1	5142-5150	5147.79	-41.07	0.0782	15	15	Pass
NVNT	a	5180	Ant1	5250-5251	5250.22	-44.02	0.0396	1000	100	Pass
NVNT	a	5180	Ant1	5251-5260	5253.54	-43.86	0.0411	100	15.85	Pass
NVNT	a	5180	Ant1	5260-5266.7	5264.98	-45.1	0.0309	15.85	2.49	Pass
NVNT	a	5180	Ant1	5266.7-26000	25201.77	-38.27	0.1489	2.5	2.5	Pass
NVNT	a	5200	Ant1	30-5142	2700	-43.5	0.0447	2.5	2.5	Pass
NVNT	a	5200	Ant1	5142-5150	5146.82	-42.95	0.0507	15	15	Pass
NVNT	a	5200	Ant1	5250-5251	5250.49	-40.55	0.0881	1000	100	Pass
NVNT	a	5200	Ant1	5251-5260	5252.29	-42.17	0.0607	100	15.85	Pass
NVNT	a	5200	Ant1	5260-5266.7	5262.19	-43.25	0.0473	15.85	2.49	Pass
NVNT	a	5200	Ant1	5266.7-26000	24913.06	-36.07	0.2472	2.5	2.5	Pass
NVNT	a	5240	Ant1	30-5142	3287.75	-43.74	0.0423	2.5	2.5	Pass
NVNT	a	5240	Ant1	5142-5150	5147.51	-43.97	0.0401	15	15	Pass
NVNT	a	5240	Ant1	5250-5251	5250.03	-4.18	381.9443	1000	100	Pass
NVNT	a	5240	Ant1	5251-5260	5251.03	-12.36	58.0764	100	15.85	Pass
NVNT	a	5240	Ant1	5260-5266.7	5260.54	-32.56	0.5546	15.85	2.49	Pass
NVNT	a	5240	Ant1	5266.7-26000	25179.48	-37.05	0.1972	2.5	2.5	Pass
NVNT	ac20	5180	Ant1	30-5142	5139.96	-47.18	0.0191	2.5	2.5	Pass
NVNT	ac20	5180	Ant1	5142-5150	5145.98	-38.3	0.1479	15	15	Pass
NVNT	ac20	5180	Ant1	5250-5251	5250.28	-47.39	0.0182	1000	100	Pass
NVNT	ac20	5180	Ant1	5251-5260	5255.19	-47.82	0.0165	100	15.85	Pass
NVNT	ac20	5180	Ant1	5260-5266.7	5261.31	-48.66	0.0136	15.85	2.49	Pass
NVNT	ac20	5180	Ant1	5266.7-26000	5363.63	-53.81	0.0042	2.5	2.5	Pass
NVNT	ac20	5200	Ant1	30-5142	5141.23	-50.56	0.0088	2.5	2.5	Pass
NVNT	ac20	5200	Ant1	5142-5150	5149.93	-46.15	0.0243	15	15	Pass
NVNT	ac20	5200	Ant1	5250-5251	5250.65	-43.9	0.0407	1000	100	Pass
NVNT	ac20	5200	Ant1	5251-5260	5253.56	-44.94	0.0321	100	15.85	Pass
NVNT	ac20	5200	Ant1	5260-5266.7	5263.06	-46.02	0.025	15.85	2.49	Pass
NVNT	ac20	5200	Ant1	5266.7-26000	5273.44	-52.05	0.0062	2.5	2.5	Pass
NVNT	ac20	5240	Ant1	30-5142	3493.38	-52.14	0.0061	2.5	2.5	Pass
NVNT	ac20	5240	Ant1	5142-5150	5145.92	-50.74	0.0084	15	15	Pass
NVNT	ac20	5240	Ant1	5250-5251	5250.03	-2.03	626.6139	1000	100	Pass
NVNT	ac20	5240	Ant1	5251-5260	5251.07	-13.46	45.0817	100	15.85	Pass
NVNT	ac20	5240	Ant1	5260-5266.7	5260.21	-33.49	0.4477	15.85	2.49	Pass
NVNT	ac20	5240	Ant1	5266.7-26000	25820.14	-46.35	0.0232	2.5	2.5	Pass
NVNT	ac40	5190	Ant1	30-5141.6	5140.58	-43.66	0.0431	2.5	2.5	Pass
NVNT	ac40	5190	Ant1	5141.6-5150	5148.19	-34.37	0.3656	15	15	Pass
NVNT	ac40	5190	Ant1	5250-5251	5250.45	-41.58	0.0695	500	50	Pass
NVNT	ac40	5190	Ant1	5251-5270	5251.45	-43.11	0.0489	50	7.92	Pass
NVNT	ac40	5190	Ant1	5270-5278.4	5272.01	-44.15	0.0385	7.92	2.48	Pass
NVNT	ac40	5190	Ant1	5278.4-26000	5289.28	-49.23	0.0119	2.5	2.5	Pass
NVNT	ac40	5230	Ant1	30-5141.6	3321.49	-43.21	0.0478	2.5	2.5	Pass
NVNT	ac40	5230	Ant1	5141.6-5150	5142.77	-43.66	0.0431	15	15	Pass
NVNT	ac40	5230	Ant1	5250-5251	5250.07	-14.54	35.156	500	50	Pass
NVNT	ac40	5230	Ant1	5251-5270	5251.2	-23.48	4.4875	50	7.92	Pass
NVNT	ac40	5230	Ant1	5270-5278.4	5270.82	-36.96	0.2014	7.92	2.48	Pass
NVNT	ac40	5230	Ant1	5278.4-26000	24851.51	-37.02	0.1986	2.5	2.5	Pass
NVNT	ac80	5210	Ant1	30-5123.2	5119.76	-41	0.0794	2.5	2.5	Pass
NVNT	ac80	5210	Ant1	5123.2-5150	5144.69	-31.2	0.7586	15	15	Pass
NVNT	ac80	5210	Ant1	5250-5251	5250.07	-14.13	38.6367	250	25	Pass
NVNT	ac80	5210	Ant1	5251-5290	5251.07	-22.24	5.9704	25	3.96	Pass
NVNT	ac80	5210	Ant1	5290-5296.7	5292.77	-36.45	0.2265	3.96	2.49	Pass
NVNT	ac80	5210	Ant1	5296.7-26000	24934.82	-37.03	0.1982	2.5	2.5	Pass
NVNT	n20	5180	Ant1	30-5142	5141.87	-46.48	0.0225	2.5	2.5	Pass
NVNT	n20	5180	Ant1	5142-5150	5148.75	-38.47	0.1422	15	15	Pass
NVNT	n20	5180	Ant1	5250-5251	5250.73	-46.66	0.0216	1000	100	Pass
NVNT	n20	5180	Ant1	5251-5260	5251.36	-47.45	0.018	100	15.85	Pass
NVNT	n20	5180	Ant1	5260-5266.7	5260.33	-47.67	0.0171	15.85	2.49	Pass
NVNT	n20	5180	Ant1	5266.7-26000	25777.12	-47.5	0.0178	2.5	2.5	Pass
NVNT	n20	5200	Ant1	30-5142	5140.47	-50.19	0.0096	2.5	2.5	Pass
NVNT	n20	5200	Ant1	5142-5150	5148.93	-45.54	0.0279	15	15	Pass
NVNT	n20	5200	Ant1	5250-5251	5250.7	-44.05	0.0394	1000	100	Pass
NVNT	n20	5200	Ant1	5251-5260	5253.36	-43.5	0.0447	100	15.85	Pass
NVNT	n20	5200	Ant1	5260-5266.7	5264.5	-44.99	0.0317	15.85	2.49	Pass
NVNT	n20	5200	Ant1	5266.7-26000	25132.83	-47.64	0.0172	2.5	2.5	Pass
NVNT	n20	5240	Ant1	30-5142	2677.5	-43.83	0.0414	2.5	2.5	Pass
NVNT	n20	5240	Ant1	5142-5150	5144.2	-45.44	0.0286	15	15	Pass
NVNT	n20	5240	Ant1	5250-5250.2	5250.01	-2.23	598.4116	2154.43	630.96	Pass
NVNT	n20	5240	Ant1	5250.2-5251	5250.2	-3.21	477.5293	630.96	100	Pass
NVNT	n20	5240	Ant1	5251-5260	5251.16	-12.77	52.8445	100	15.85	Pass

NVNT	n20	5240	Ant1	5260-5266.7	5261.07	-33.44	0.4529	15.85	2.49	Pass
NVNT	n20	5240	Ant1	5266.7-26000	25224.57	-36.51	0.2234	2.5	2.5	Pass
NVNT	n40	5190	Ant1	30-5141.6	5140.83	-43.04	0.0497	2.5	2.5	Pass
NVNT	n40	5190	Ant1	5141.6-5150	5149.15	-33.43	0.4539	15	15	Pass
NVNT	n40	5190	Ant1	5250-5251	5250.38	-40.84	0.0824	500	50	Pass
NVNT	n40	5190	Ant1	5251-5270	5251.66	-42.27	0.0593	50	7.92	Pass
NVNT	n40	5190	Ant1	5270-5278.4	5276.16	-42.77	0.0528	7.92	2.48	Pass
NVNT	n40	5190	Ant1	5278.4-26000	5284.1	-48.98	0.0126	2.5	2.5	Pass
NVNT	n40	5230	Ant1	30-5141.6	3324.68	-43.79	0.0418	2.5	2.5	Pass
NVNT	n40	5230	Ant1	5141.6-5150	5148.68	-44.56	0.035	15	15	Pass
NVNT	n40	5230	Ant1	5250-5251	5250.08	-13.71	42.5598	500	50	Pass
NVNT	n40	5230	Ant1	5251-5270	5251.04	-25.79	2.6363	50	7.92	Pass
NVNT	n40	5230	Ant1	5270-5278.4	5270.51	-36.43	0.2275	7.92	2.48	Pass
NVNT	n40	5230	Ant1	5278.4-26000	25681.92	-37.36	0.1837	2.5	2.5	Pass

Note: This test has increased antenna gain .

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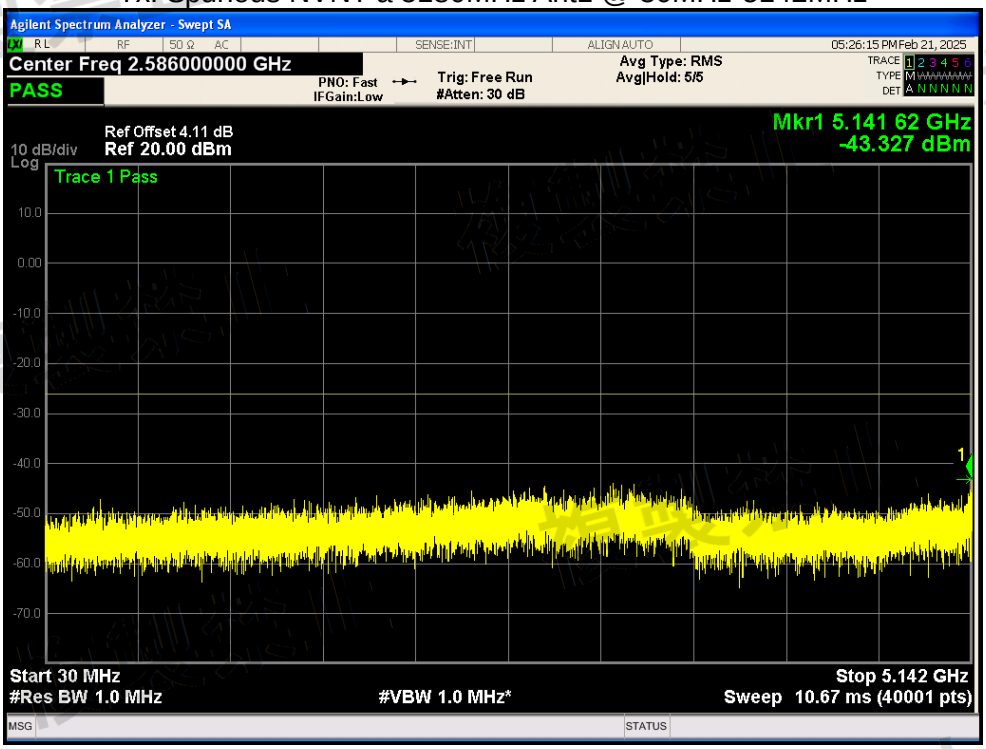
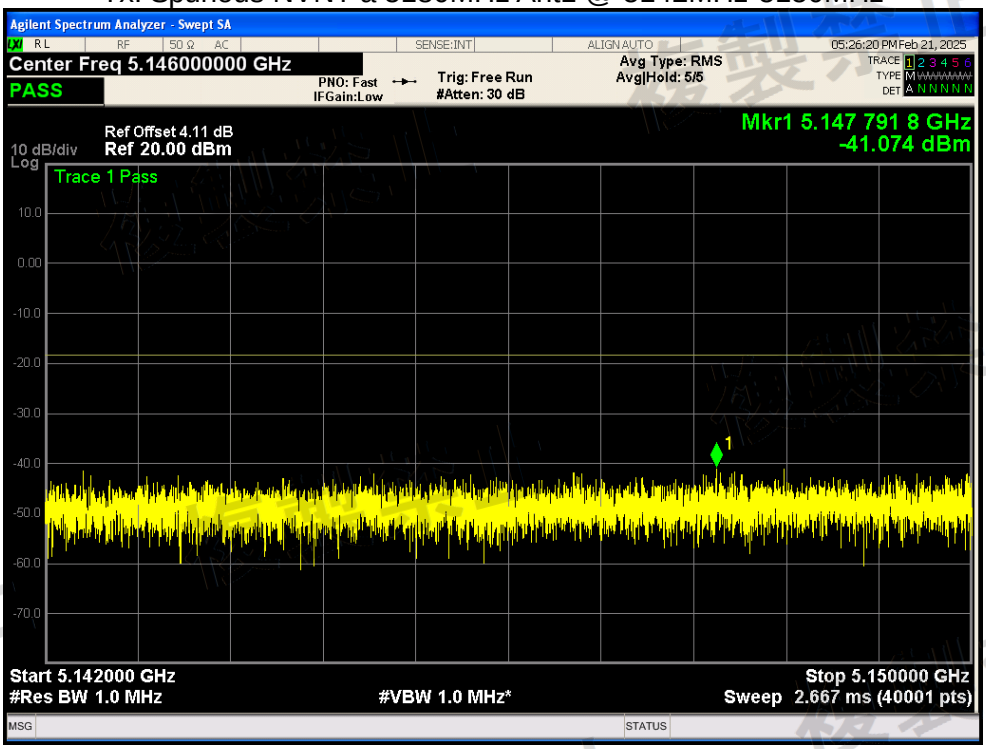
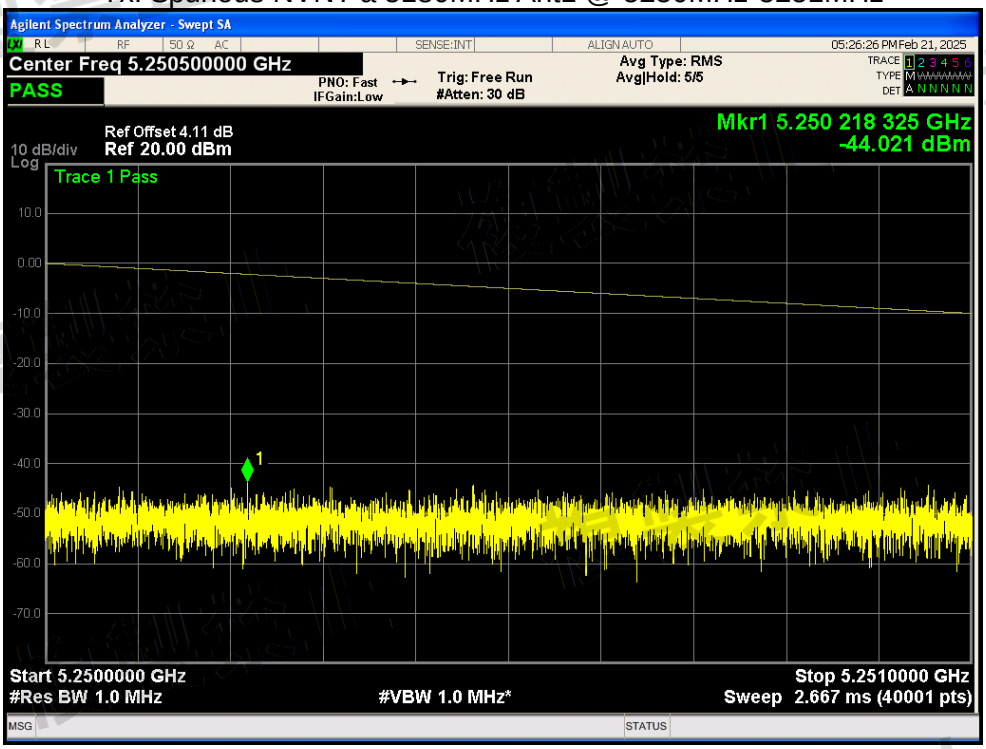
Tx. Spurious NVNT a 5180MHz Ant1 @ 30MHz-5142MHz



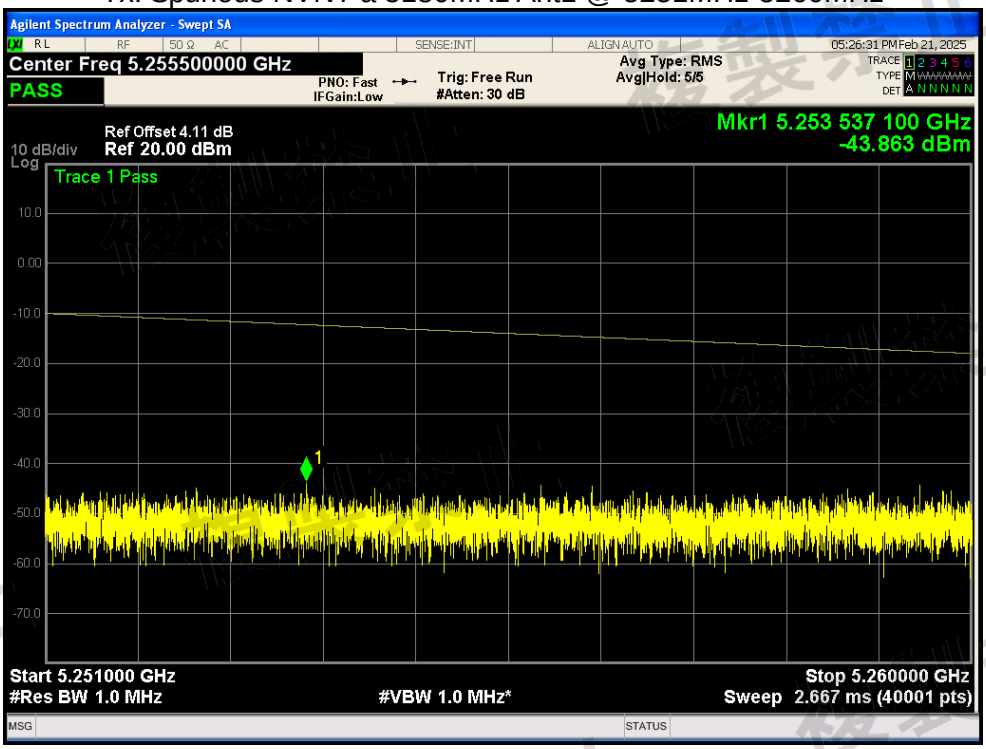
Tx. Spurious NVNT a 5180MHz Ant1 @ 5142MHz-5150MHz



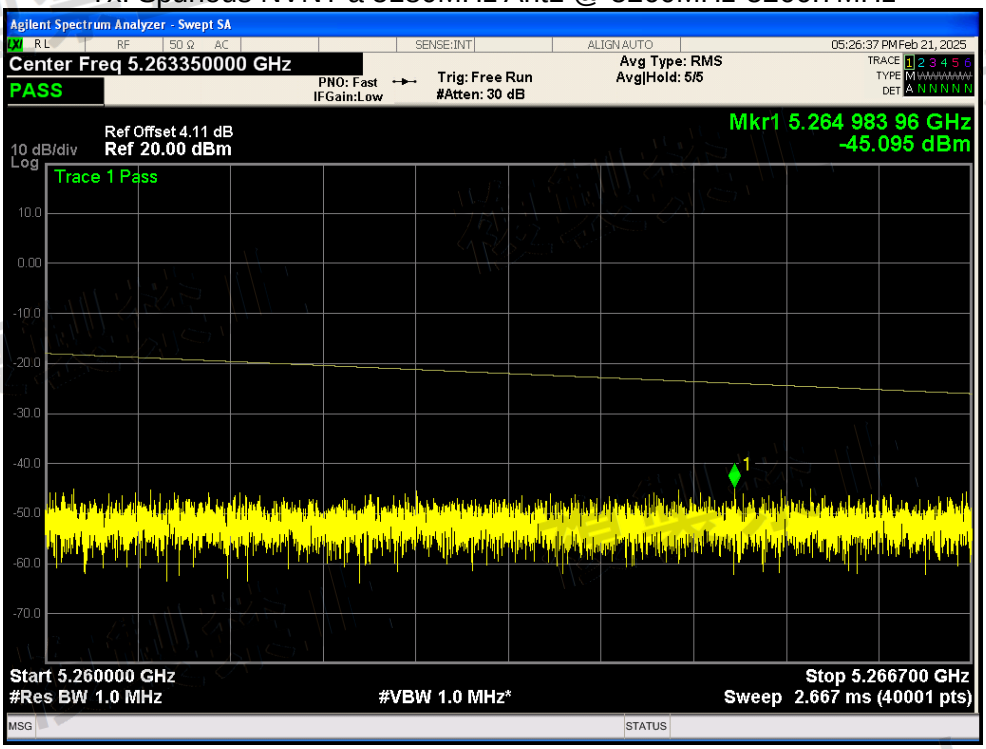
Tx. Spurious NVNT a 5180MHz Ant1 @ 5250MHz-5251MHz



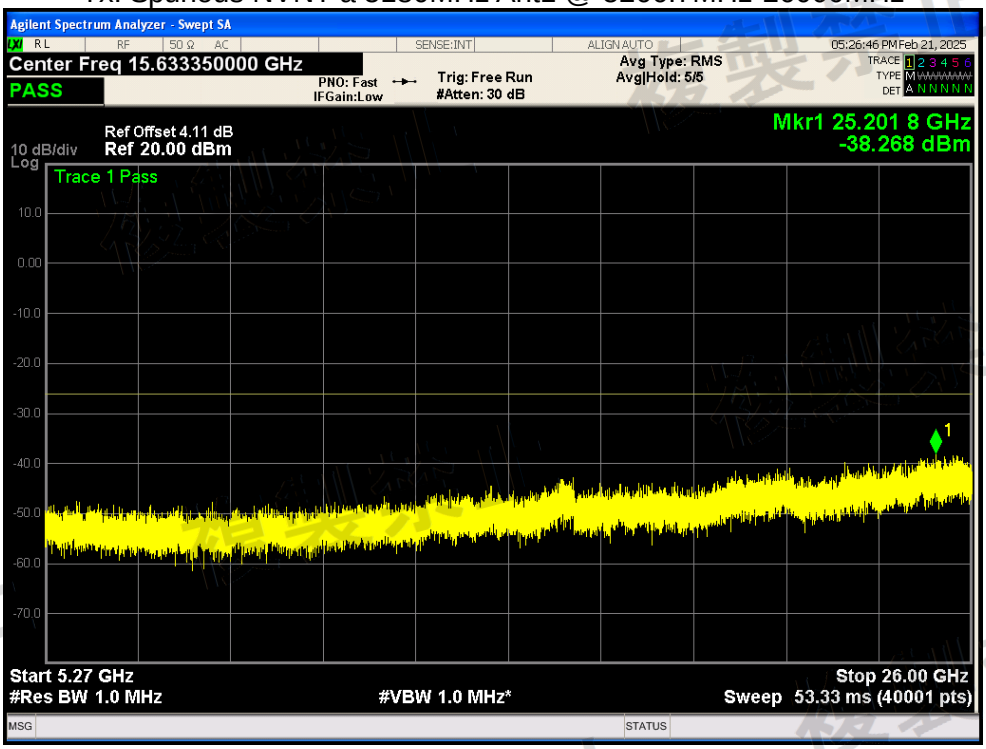
Tx. Spurious NVNT a 5180MHz Ant1 @ 5251MHz-5260MHz



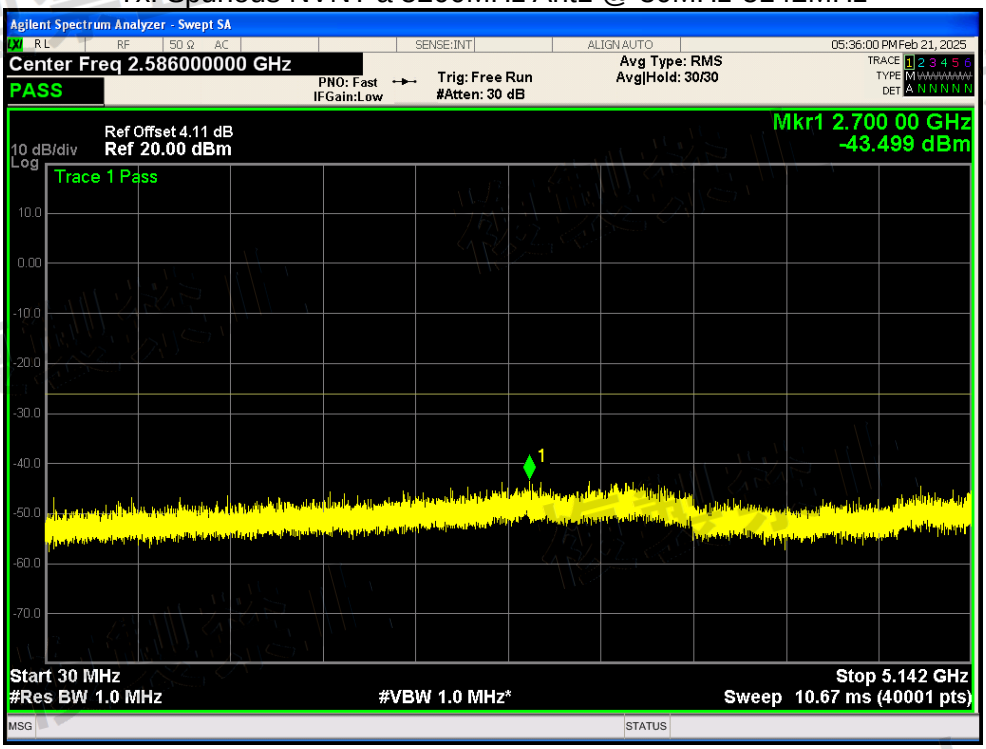
Tx. Spurious NVNT a 5180MHz Ant1 @ 5260MHz-5266.7MHz



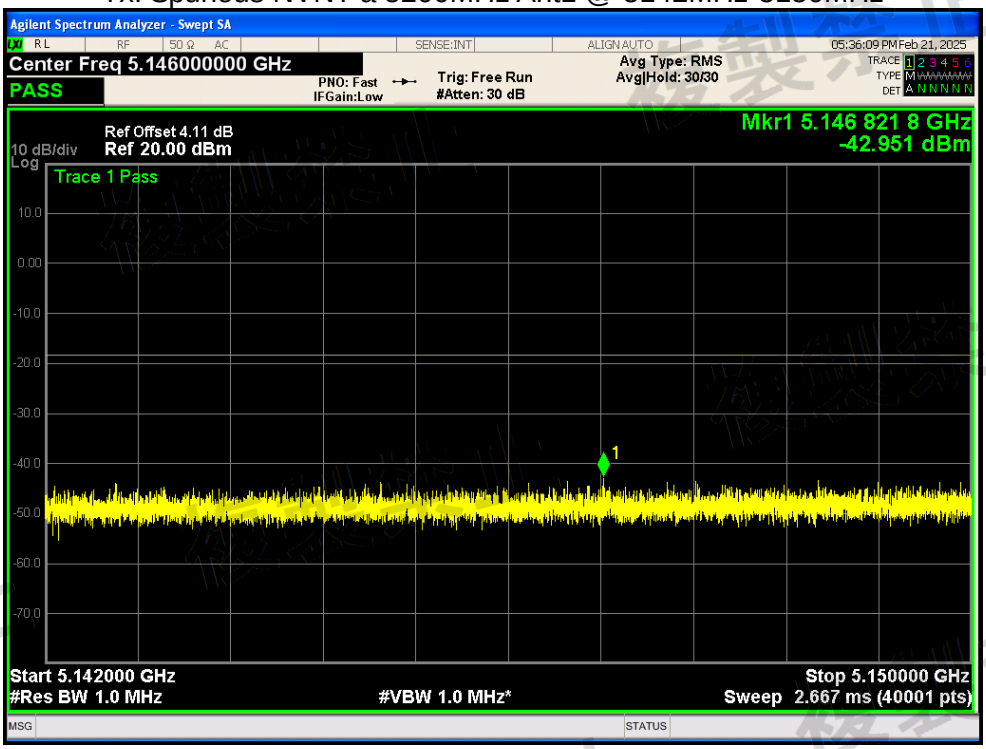
Tx. Spurious NVNT a 5180MHz Ant1 @ 5266.7MHz-26000MHz



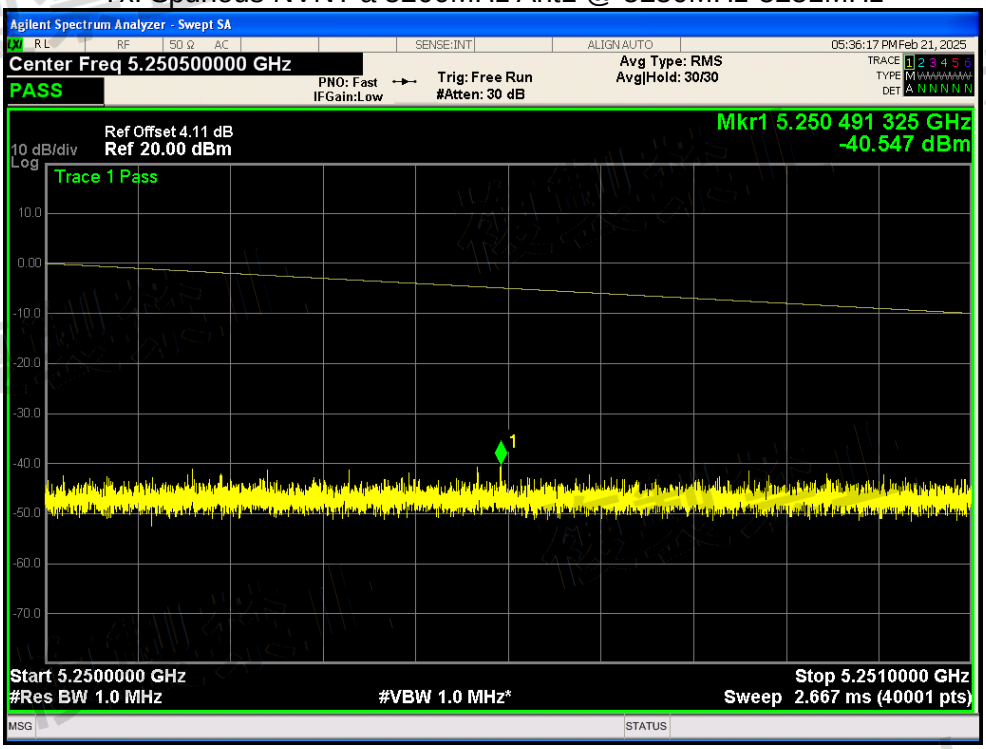
Tx. Spurious NVNT a 5200MHz Ant1 @ 30MHz-5142MHz



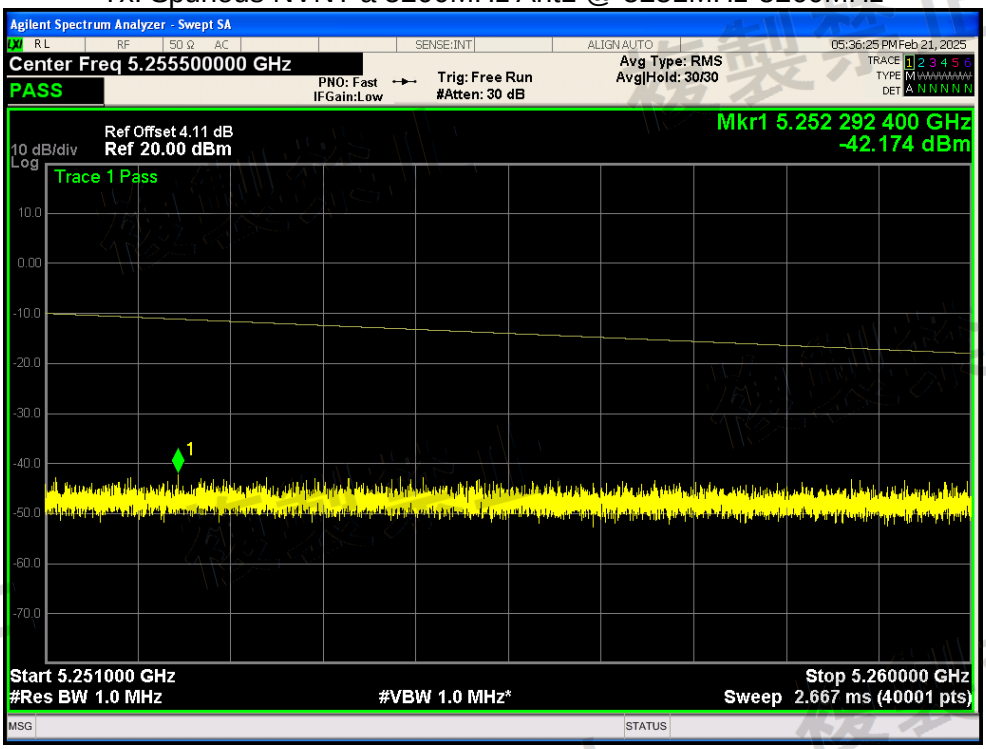
Tx. Spurious NVNT a 5200MHz Ant1 @ 5142MHz-5150MHz



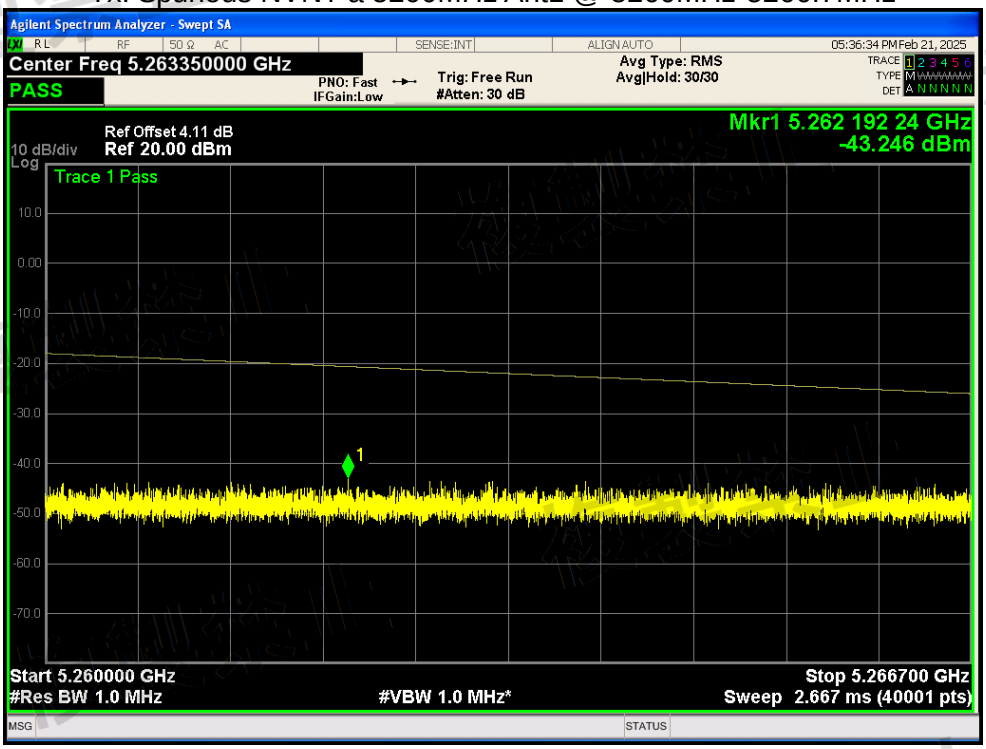
Tx. Spurious NVNT a 5200MHz Ant1 @ 5250MHz-5251MHz



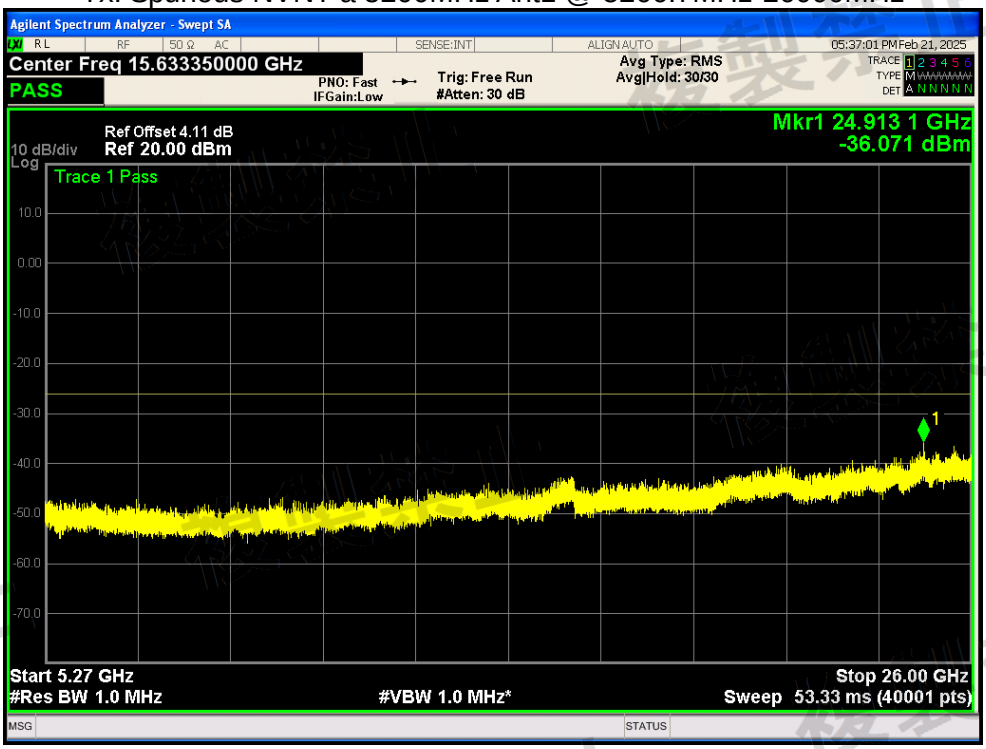
Tx. Spurious NVNT a 5200MHz Ant1 @ 5251MHz-5260MHz



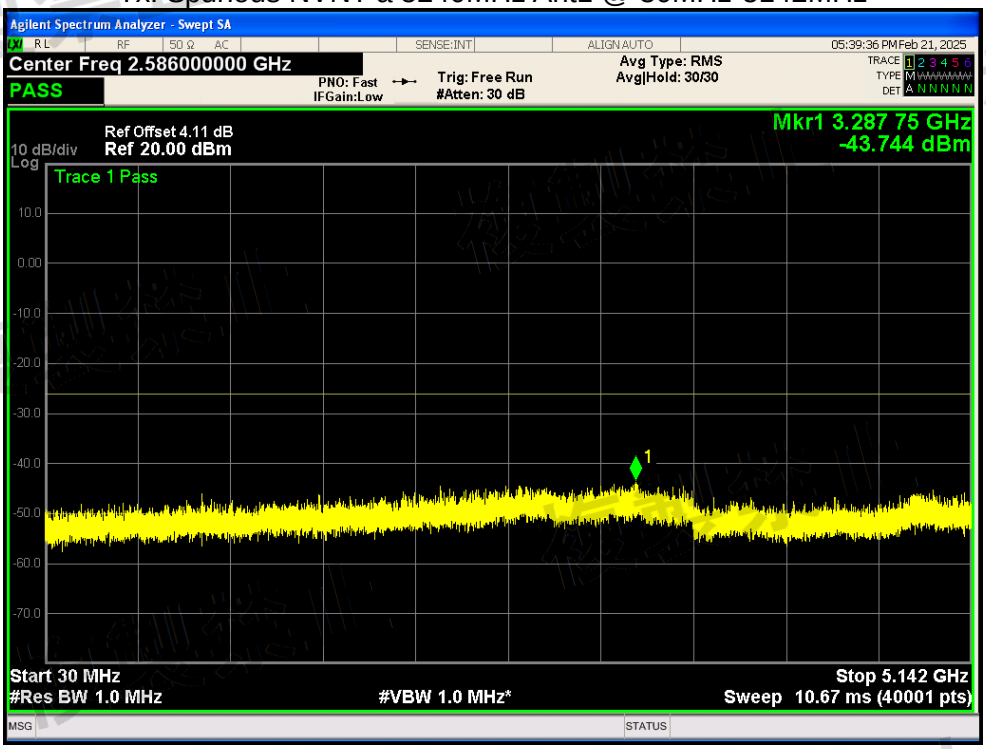
Tx. Spurious NVNT a 5200MHz Ant1 @ 5260MHz-5266.7MHz



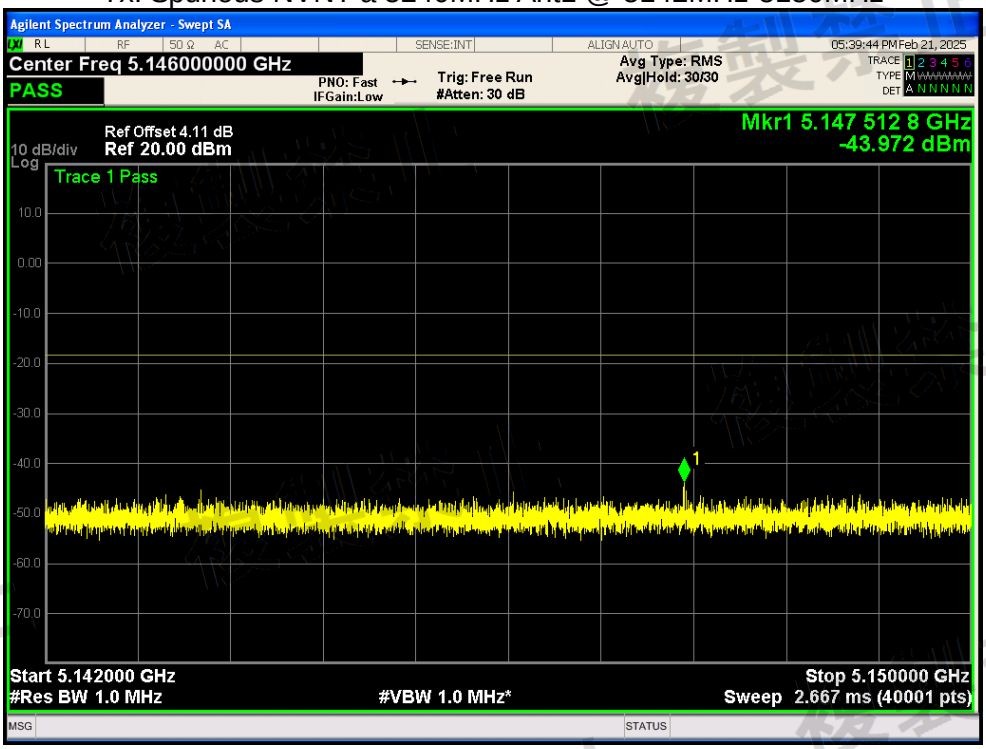
Tx. Spurious NVNT a 5200MHz Ant1 @ 5266.7MHz-26000MHz



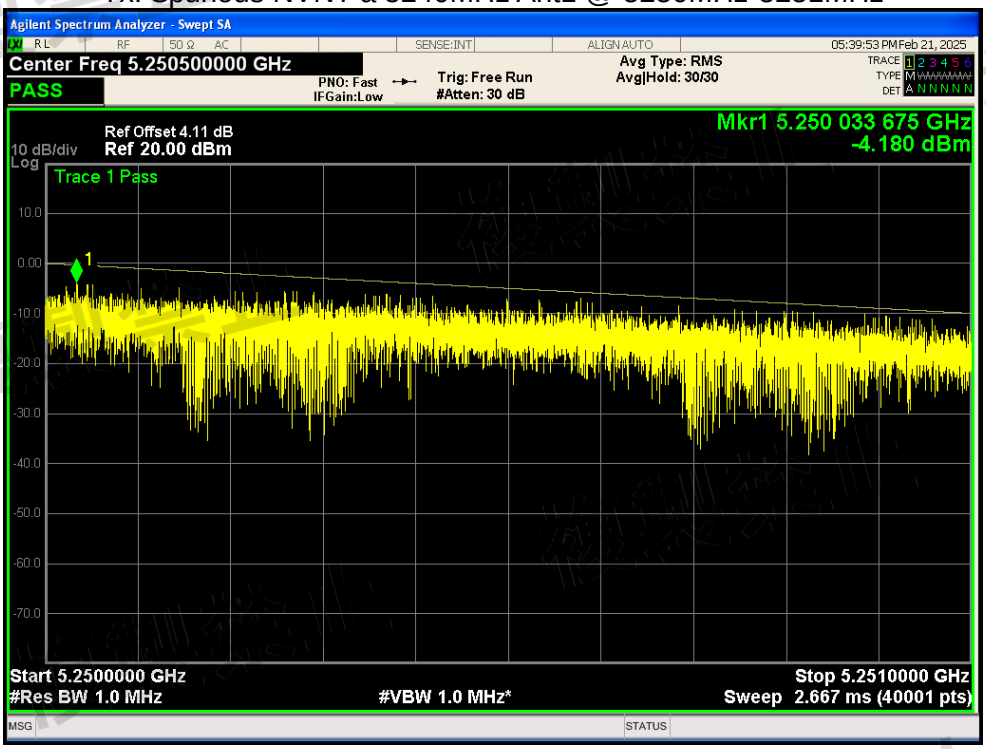
Tx. Spurious NVNT a 5240MHz Ant1 @ 30MHz-5142MHz



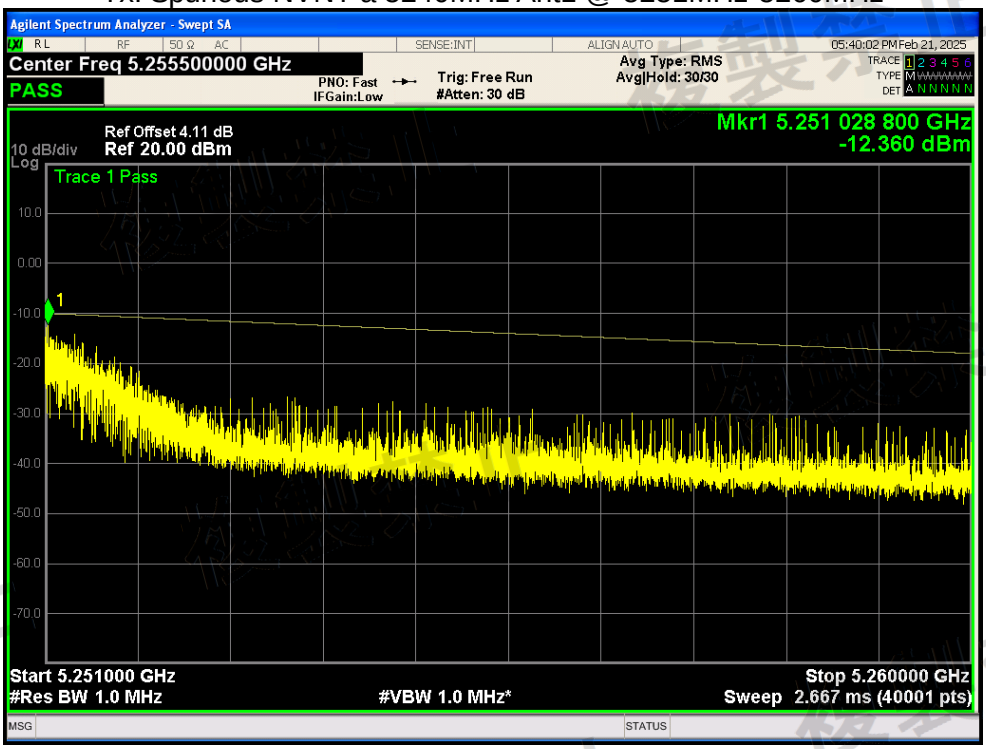
Tx. Spurious NVNT a 5240MHz Ant1 @ 5142MHz-5150MHz



Tx. Spurious NVNT a 5240MHz Ant1 @ 5250MHz-5251MHz



Tx. Spurious NVNT a 5240MHz Ant1 @ 5251MHz-5260MHz



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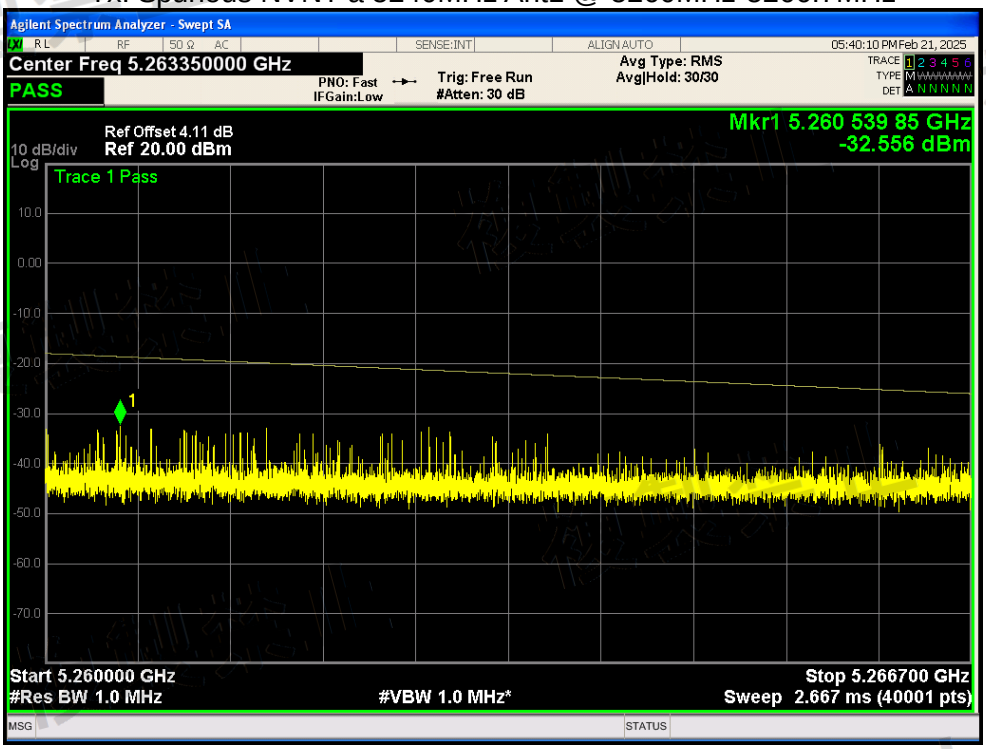
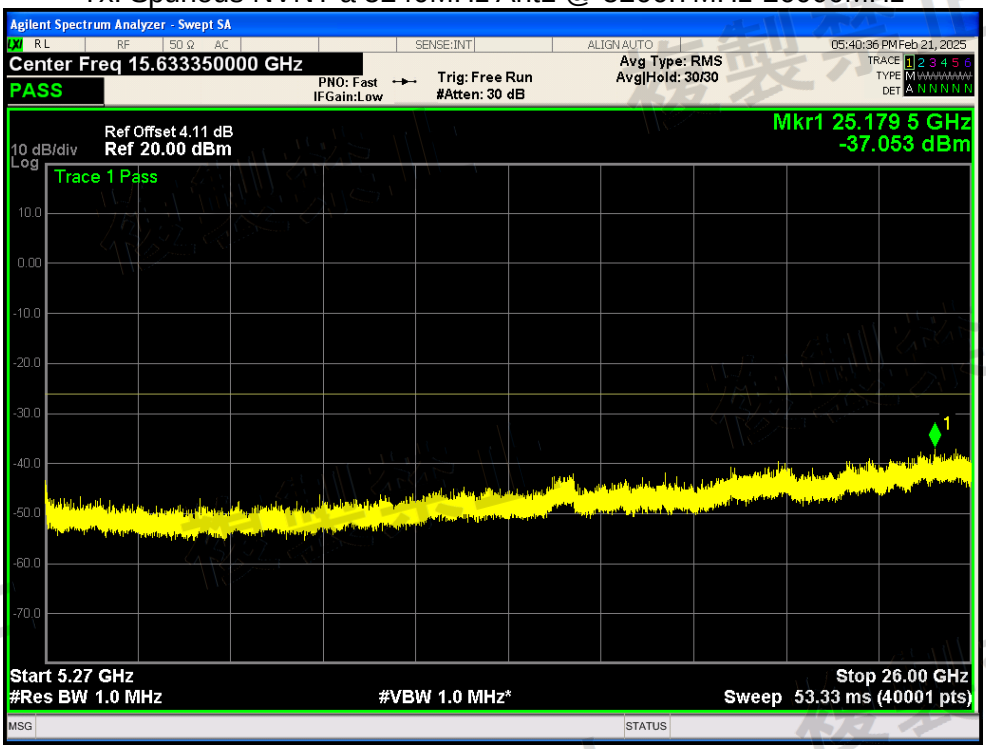
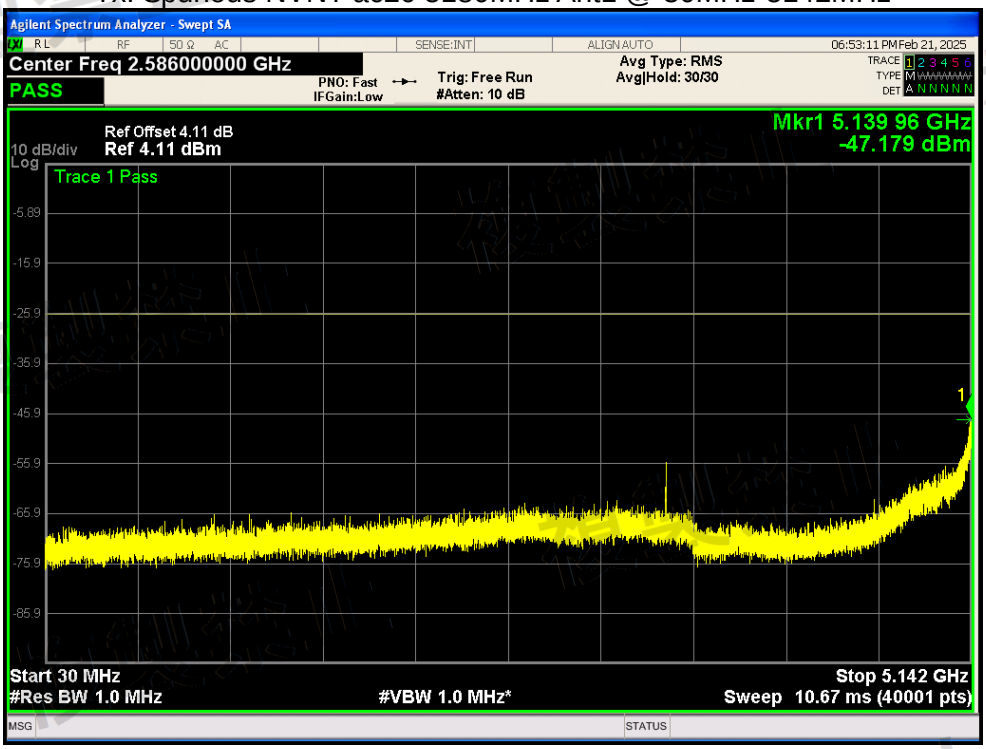


Tx. Spurious NVNT a 5240MHz Ant1 @ 5266.7MHz-26000MHz



Tx. Spurious NVNT ac20 5180MHz Ant1 @ 30MHz-5142MHz



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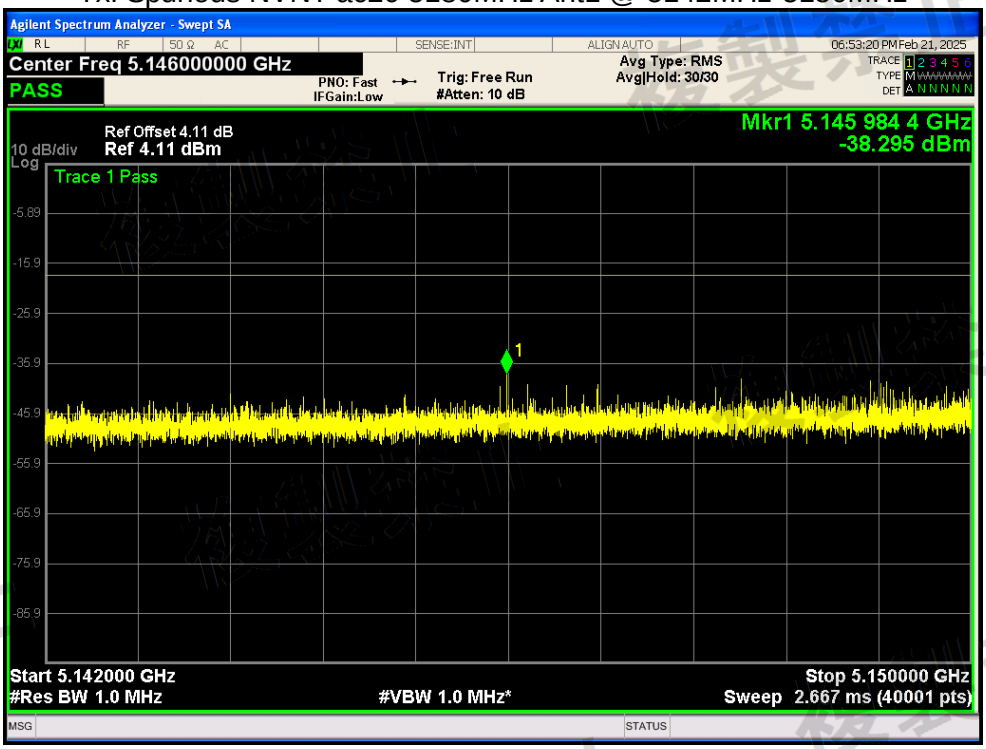
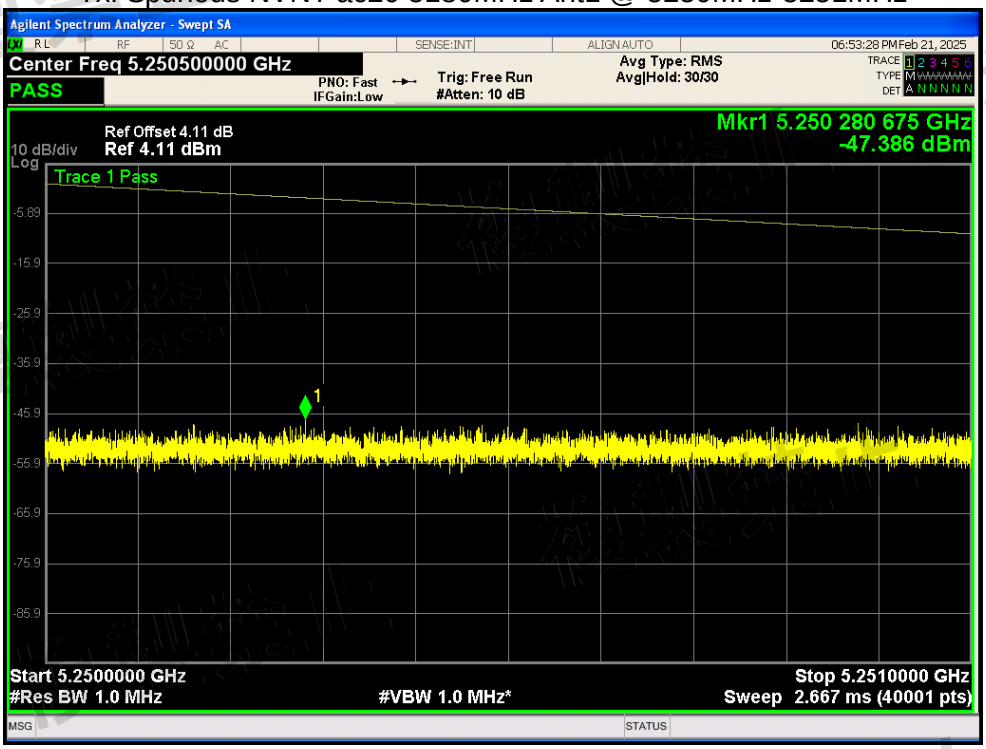


Tx. Spurious NVNT ac20 5180MHz Ant1 @ 5250MHz-5251MHz



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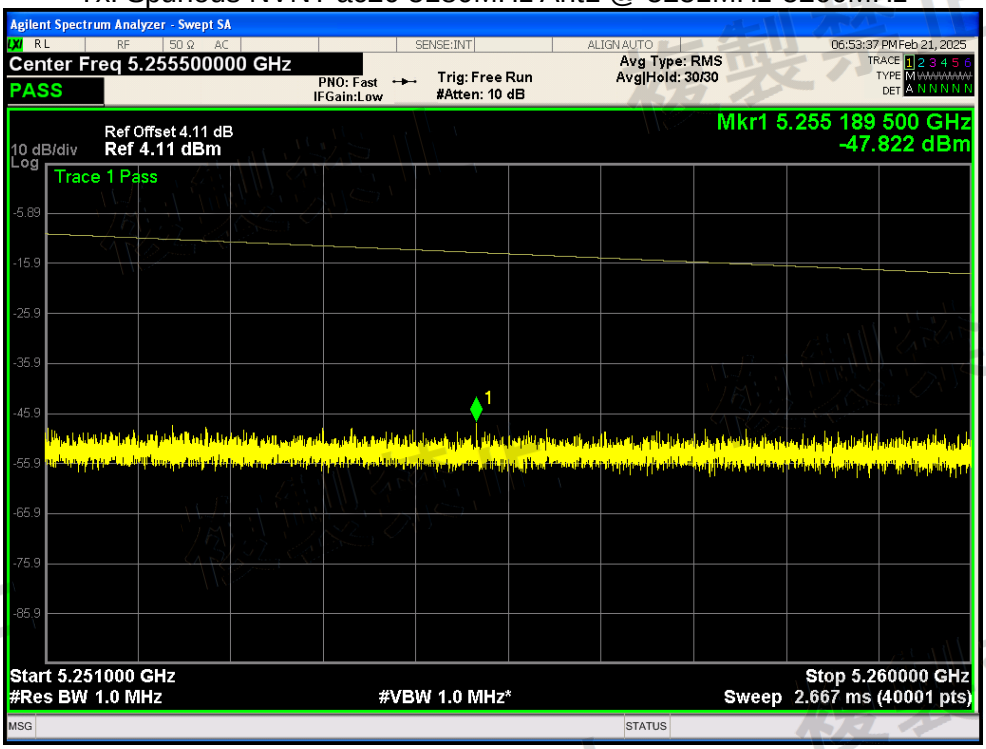

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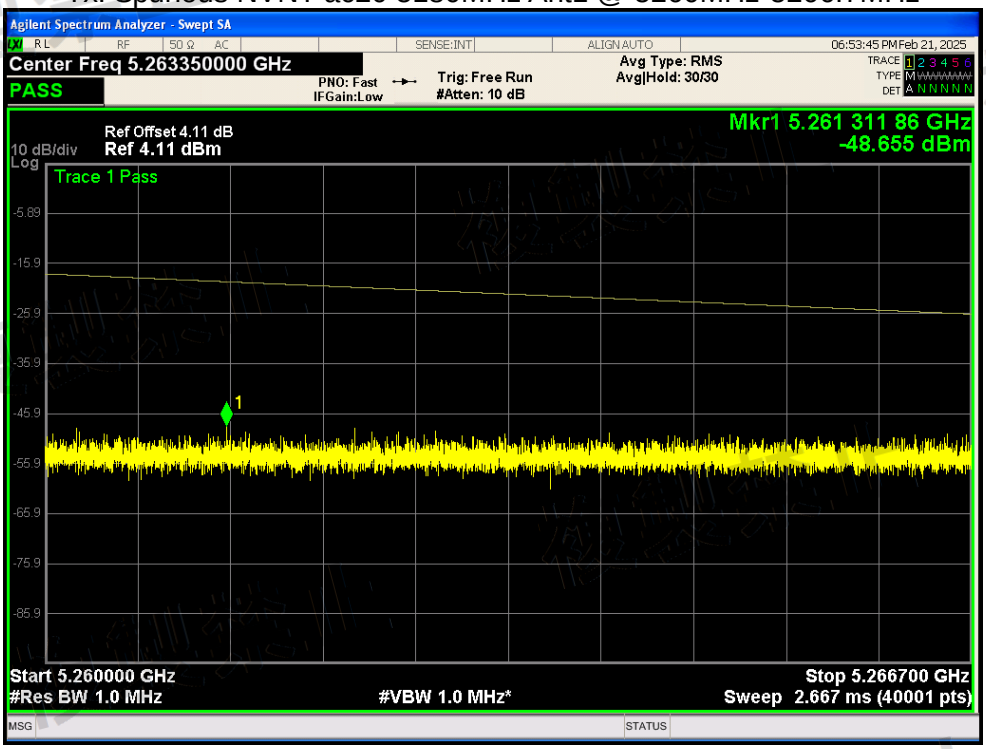

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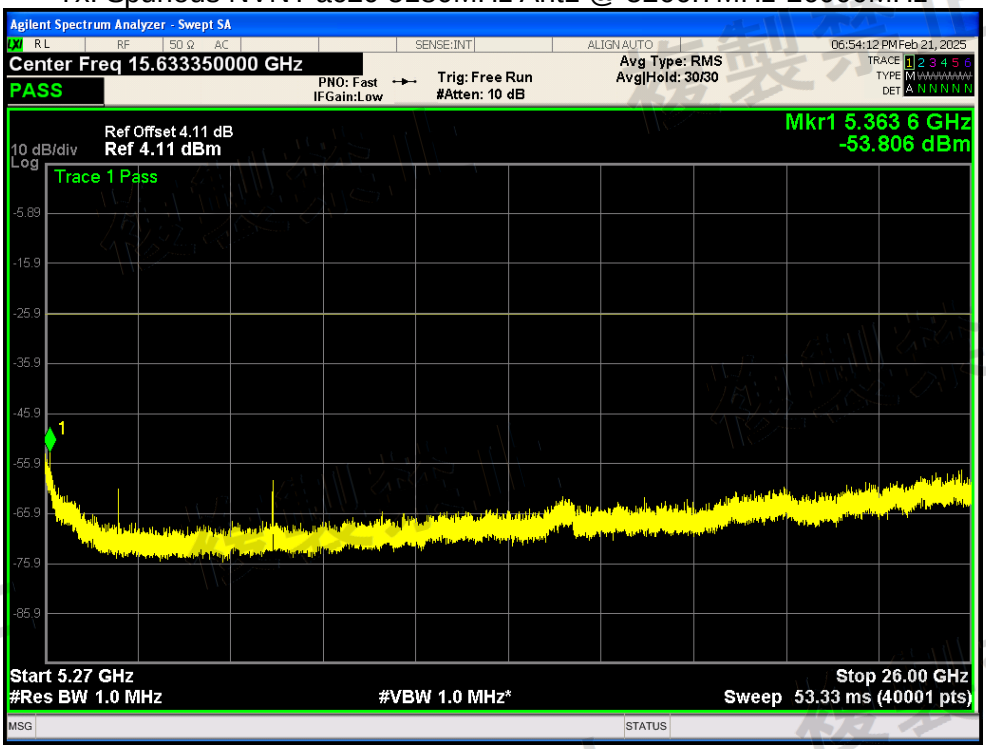

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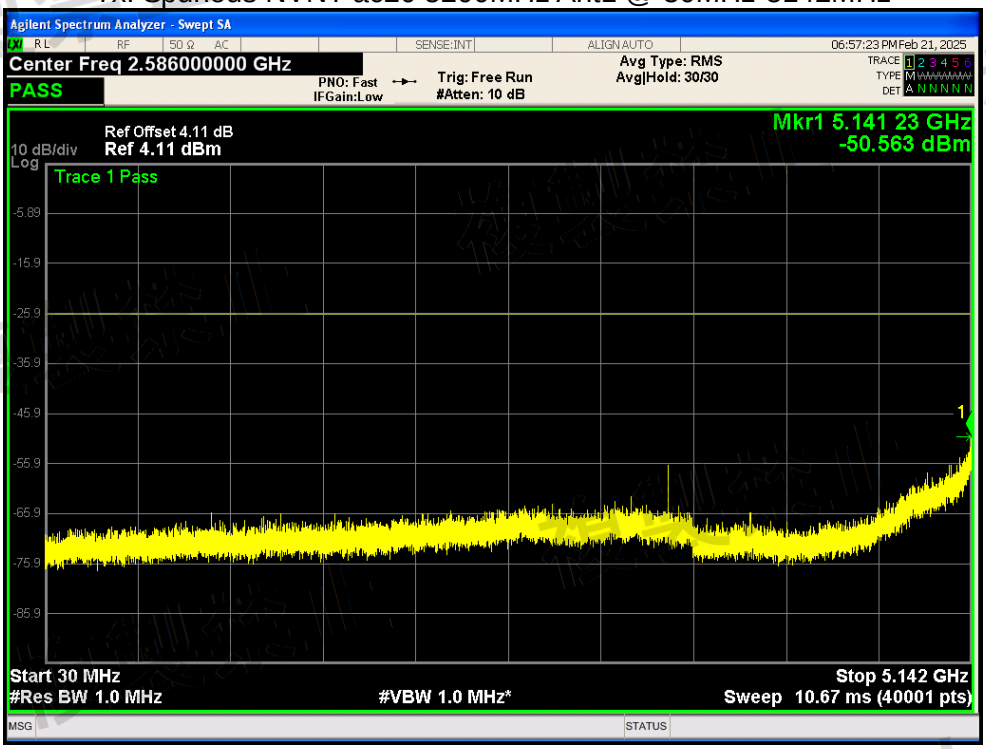

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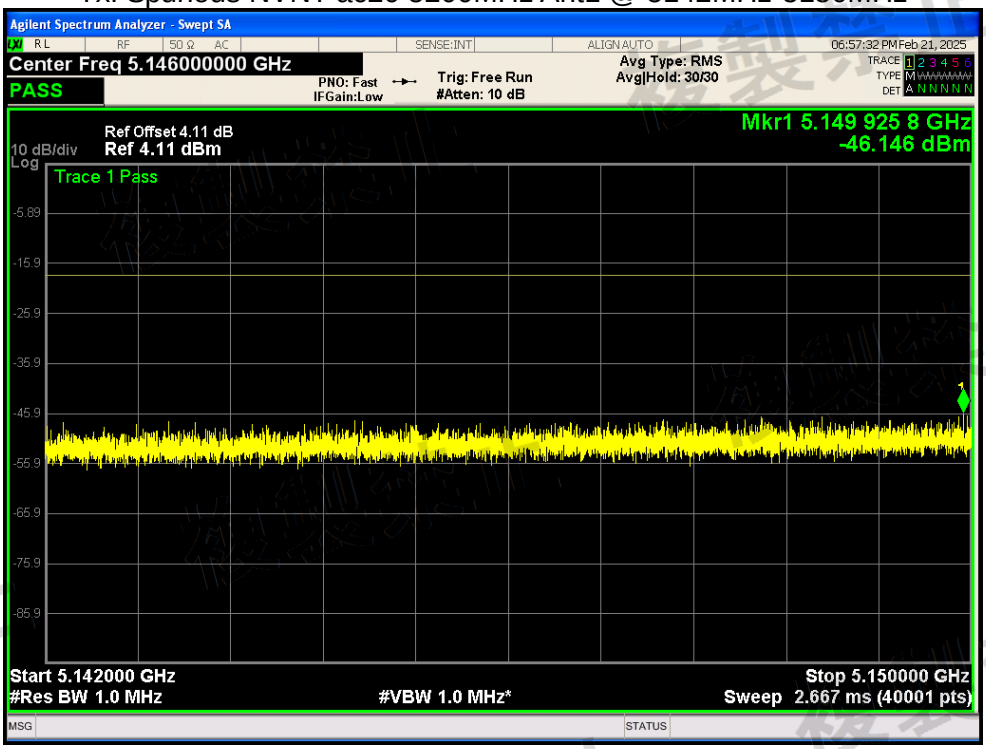
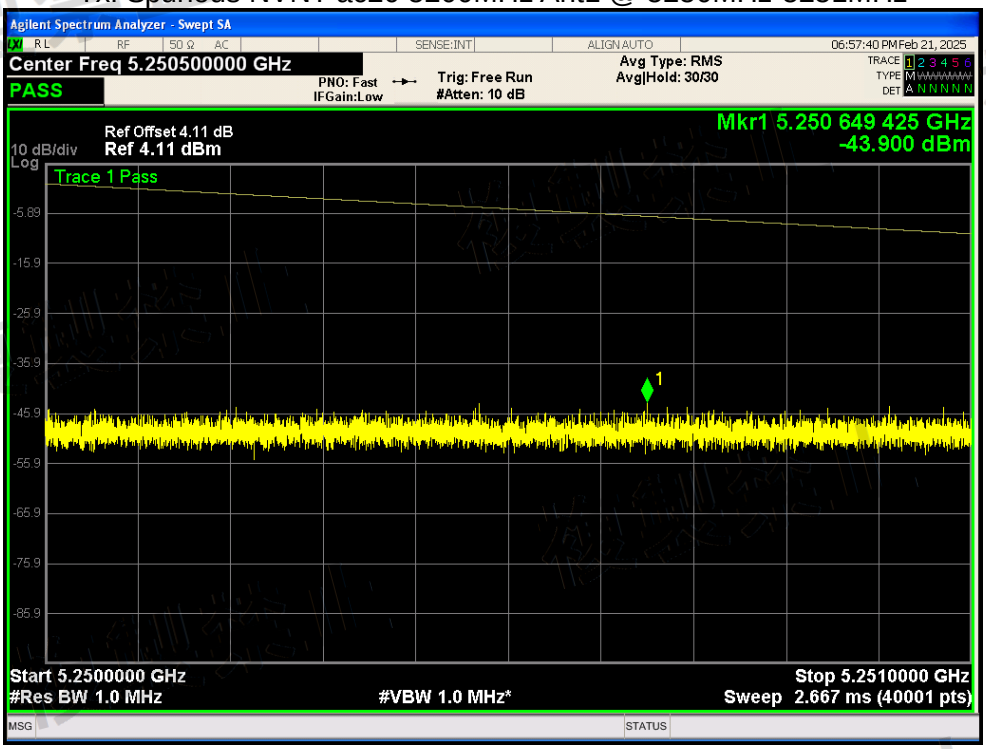
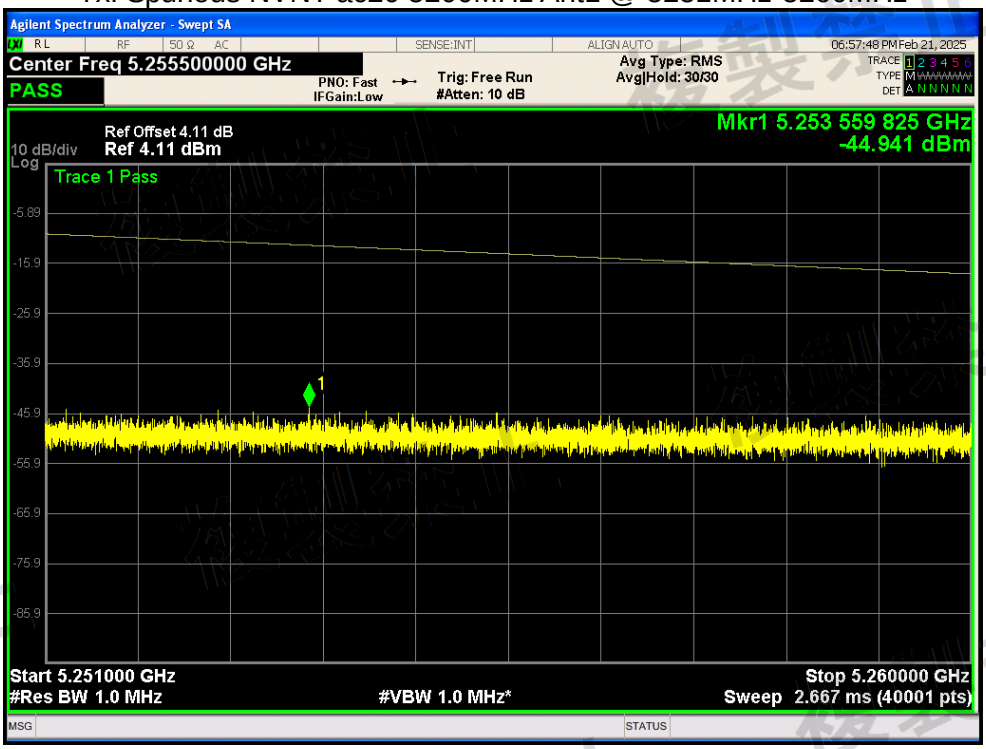


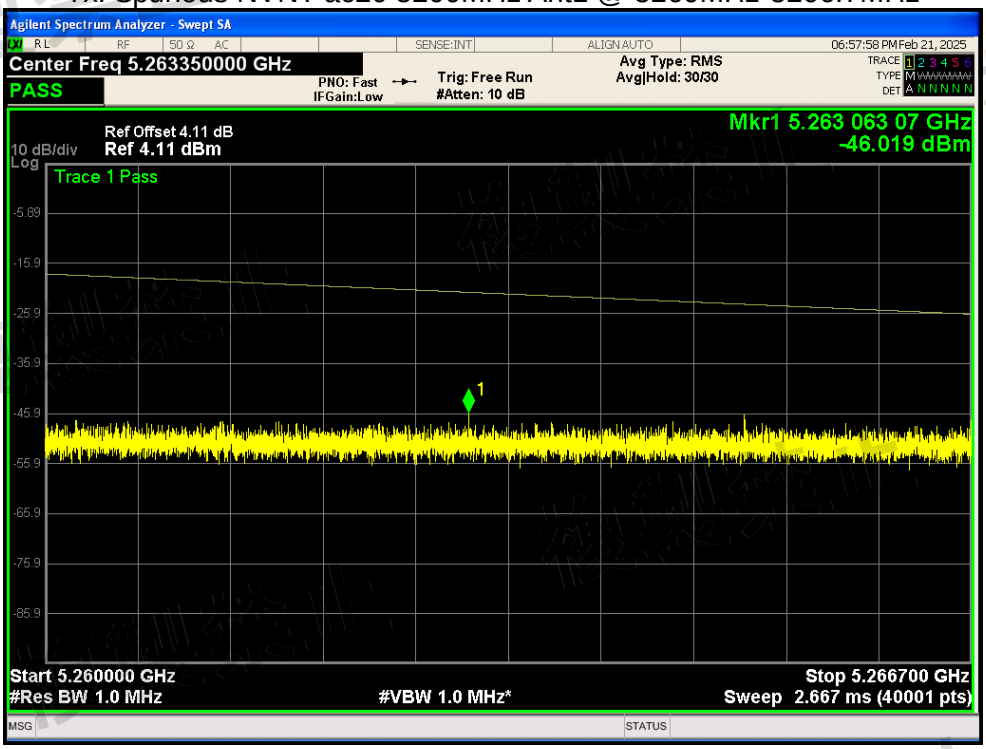
Tx. Spurious NVNT ac20 5200MHz Ant1 @ 5250MHz-5251MHz



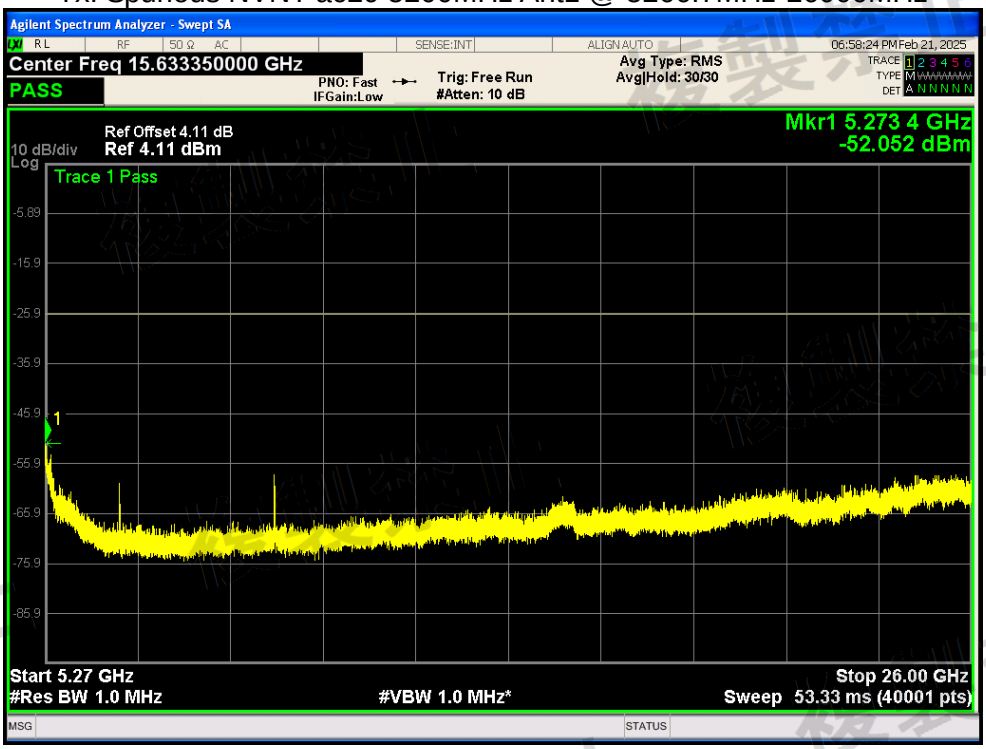
Tx. Spurious NVNT ac20 5200MHz Ant1 @ 5251MHz-5260MHz



Tx. Spurious NVNT ac20 5200MHz Ant1 @ 5260MHz-5266.7MHz



Tx. Spurious NVNT ac20 5200MHz Ant1 @ 5266.7MHz-26000MHz



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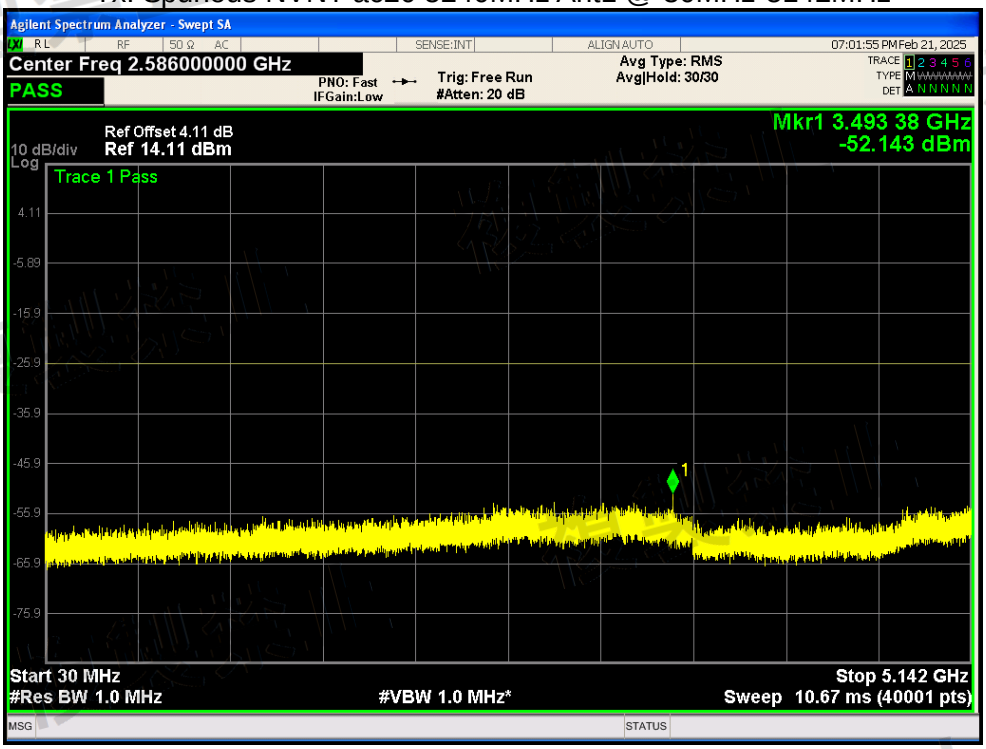
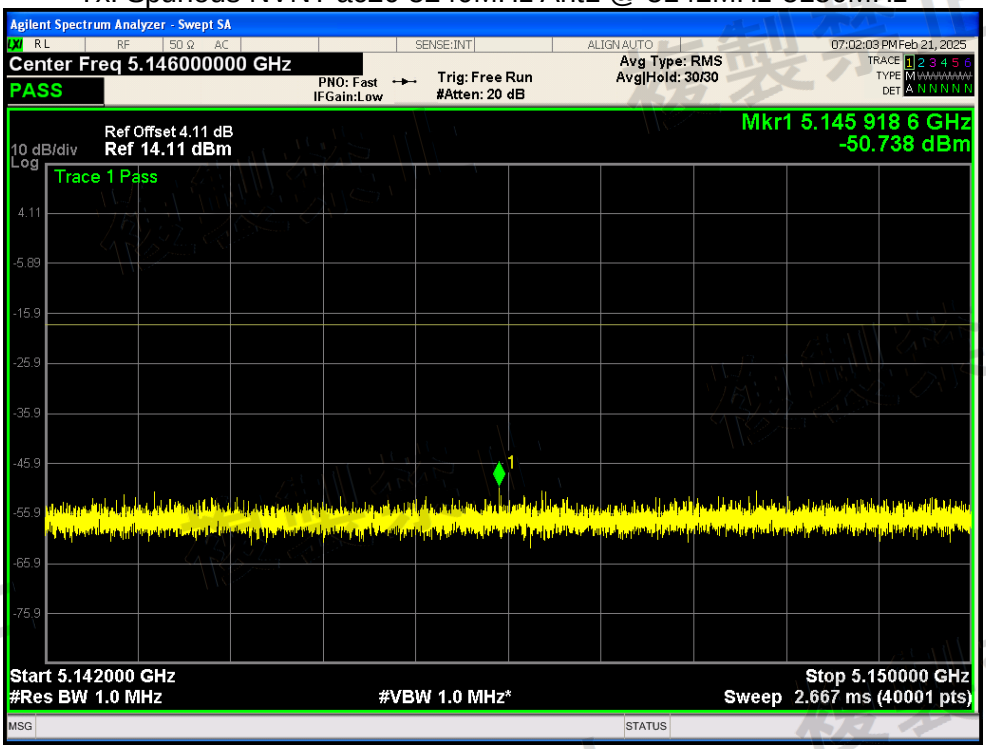
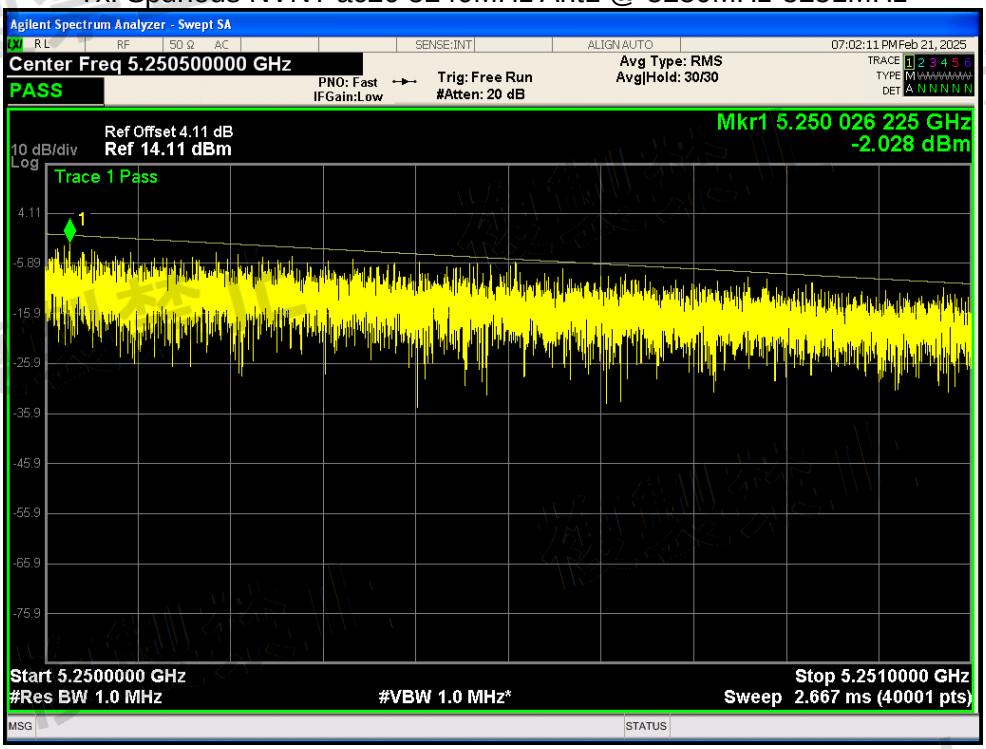


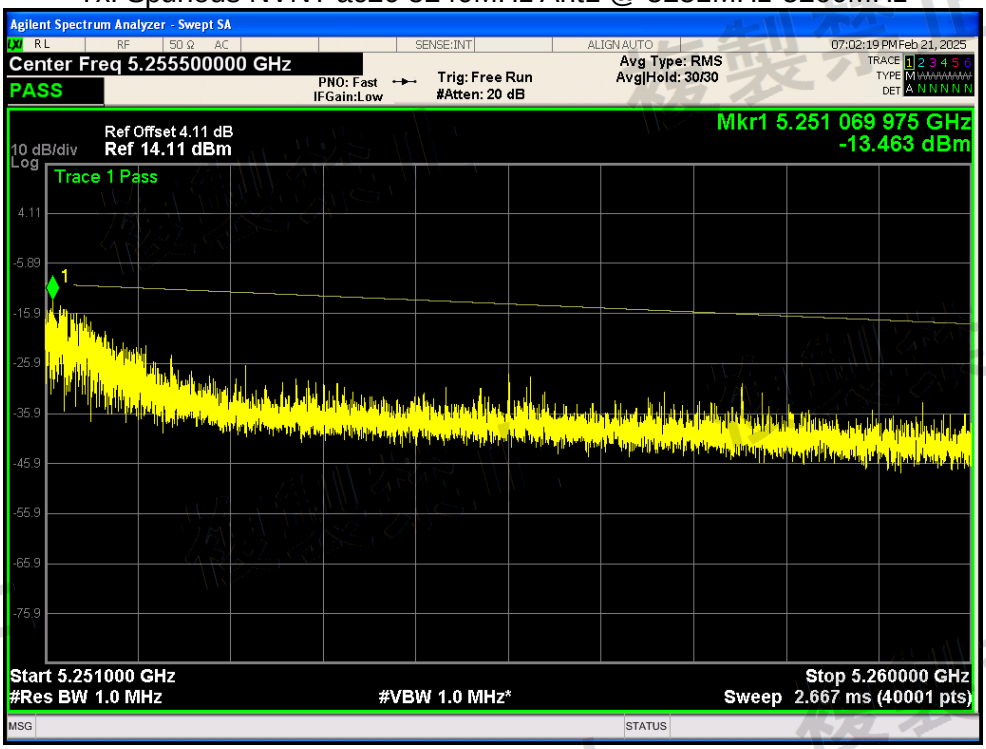
Tx. Spurious NVNT ac20 5240MHz Ant1 @ 5142MHz-5150MHz



Tx. Spurious NVNT ac20 5240MHz Ant1 @ 5250MHz-5251MHz



Tx. Spurious NVNT ac20 5240MHz Ant1 @ 5251MHz-5260MHz



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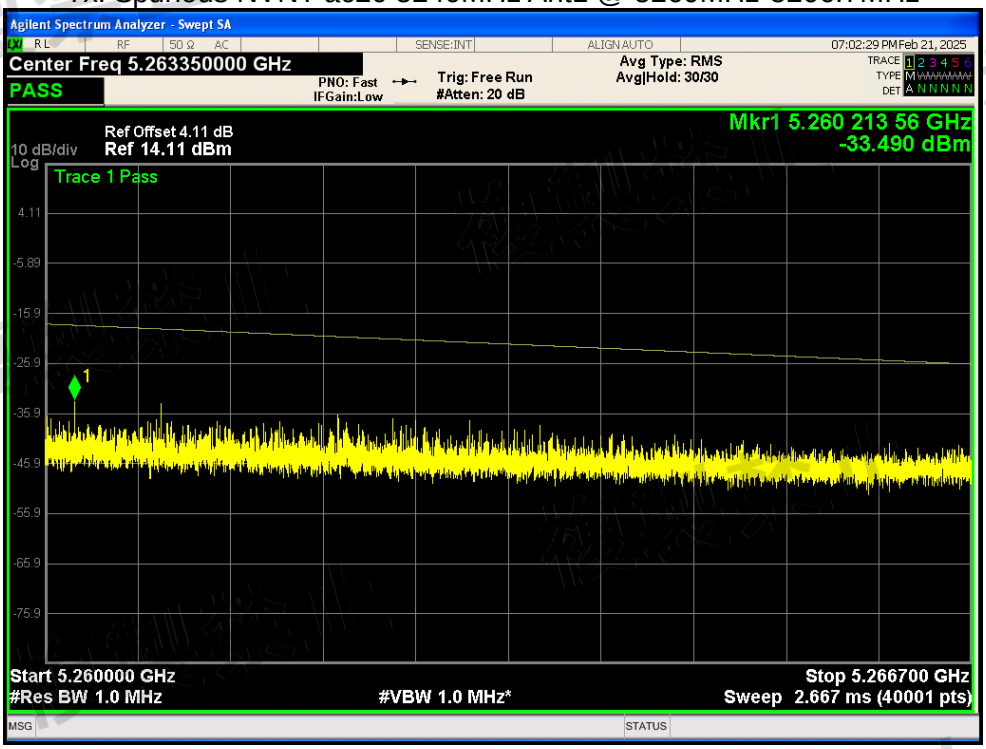
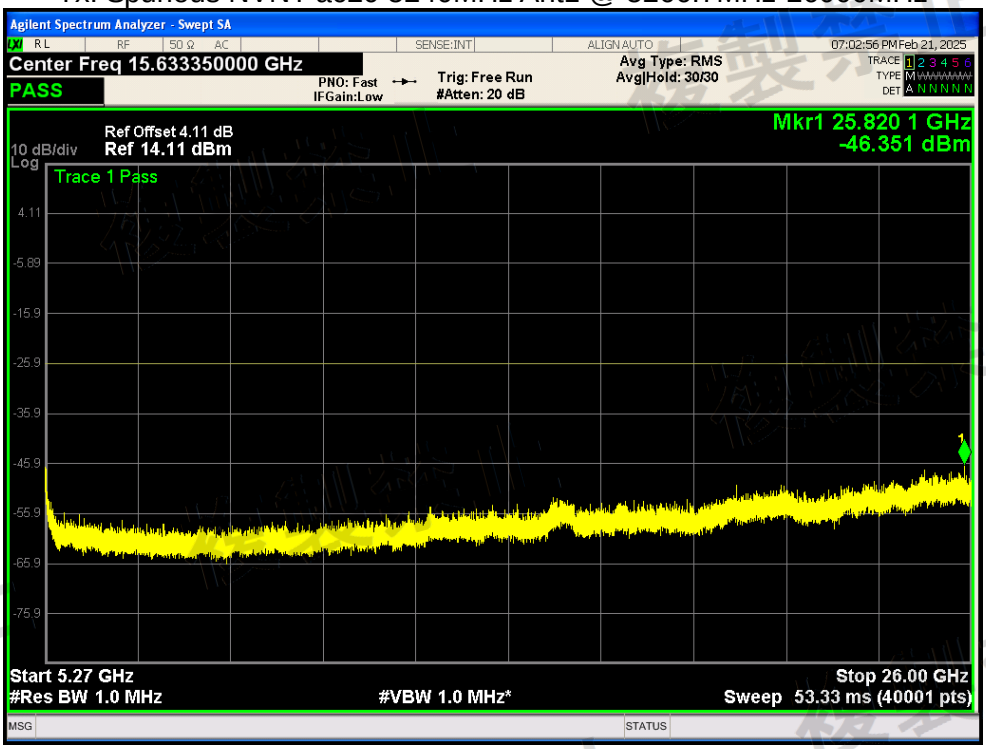
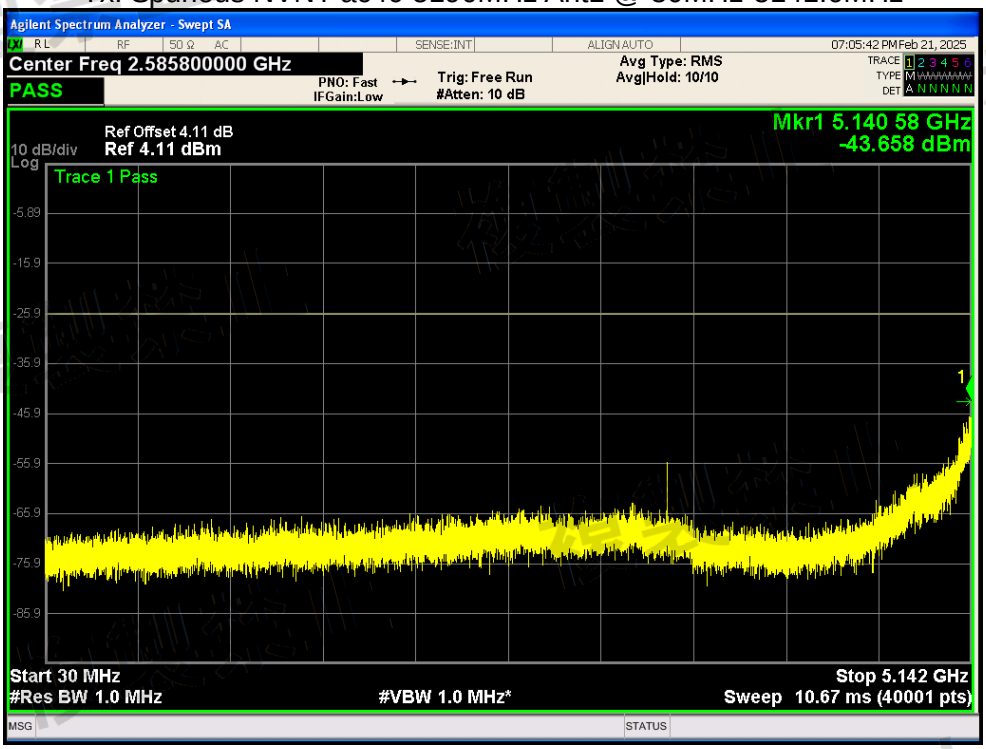


Tx. Spurious NVNT ac20 5240MHz Ant1 @ 5266.7MHz-26000MHz



Tx. Spurious NVNT ac40 5190MHz Ant1 @ 30MHz-5141.6MHz



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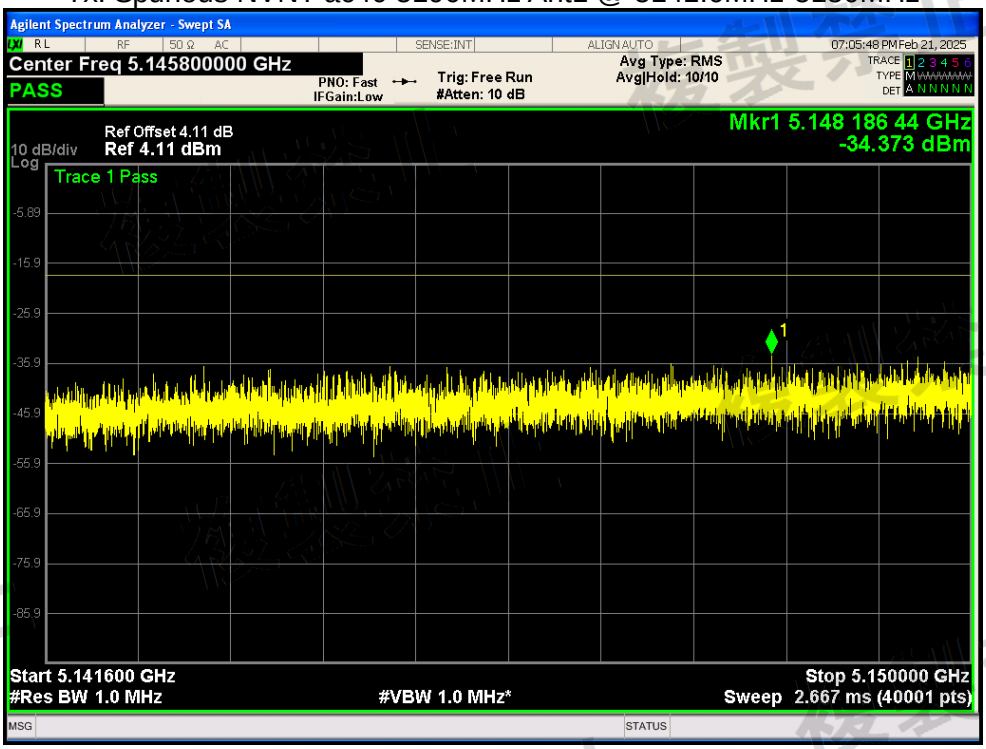

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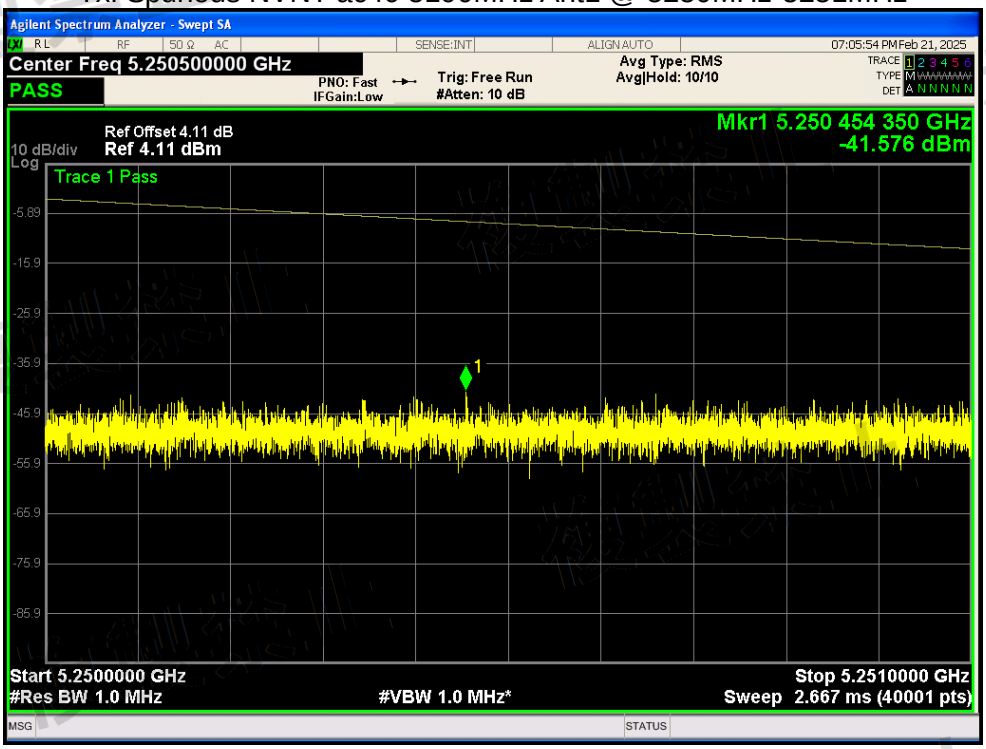
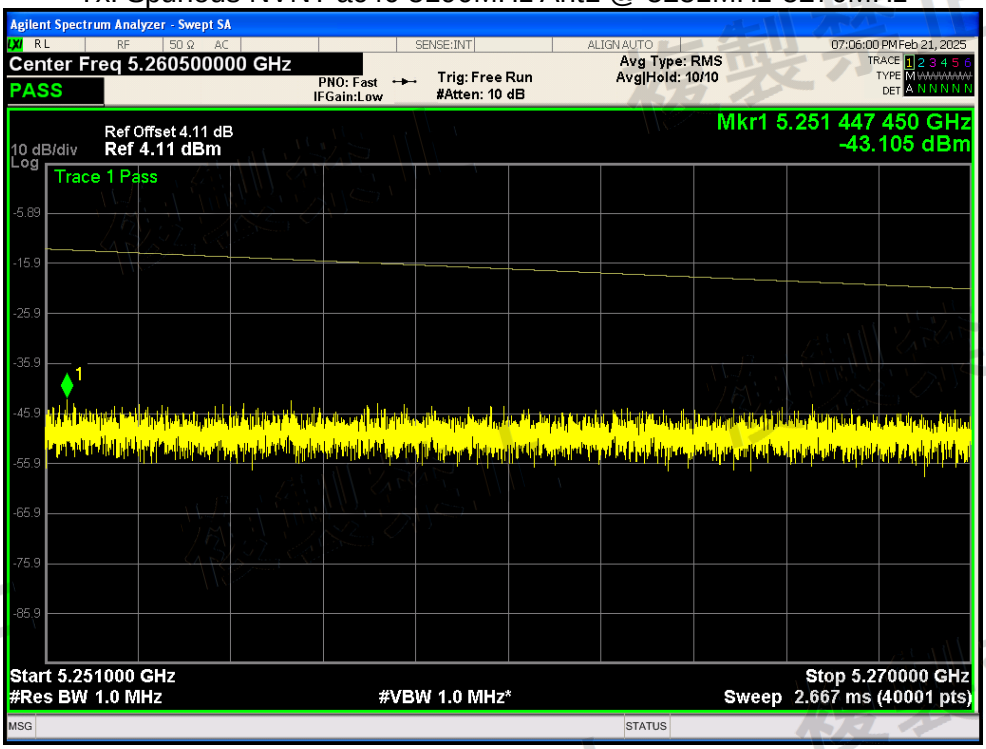
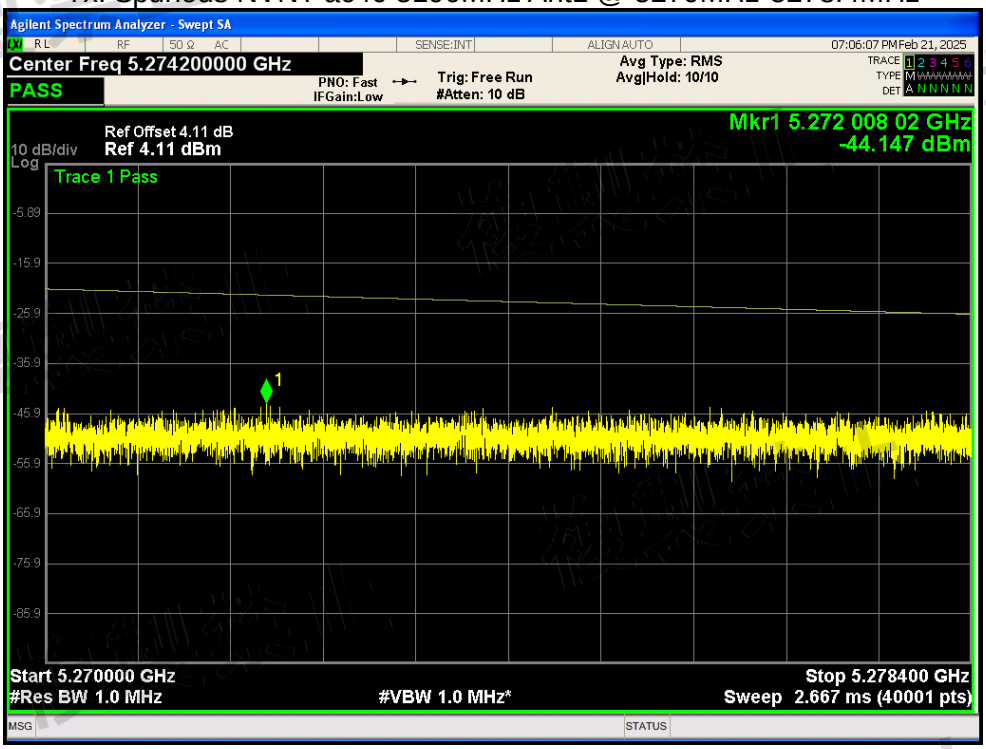


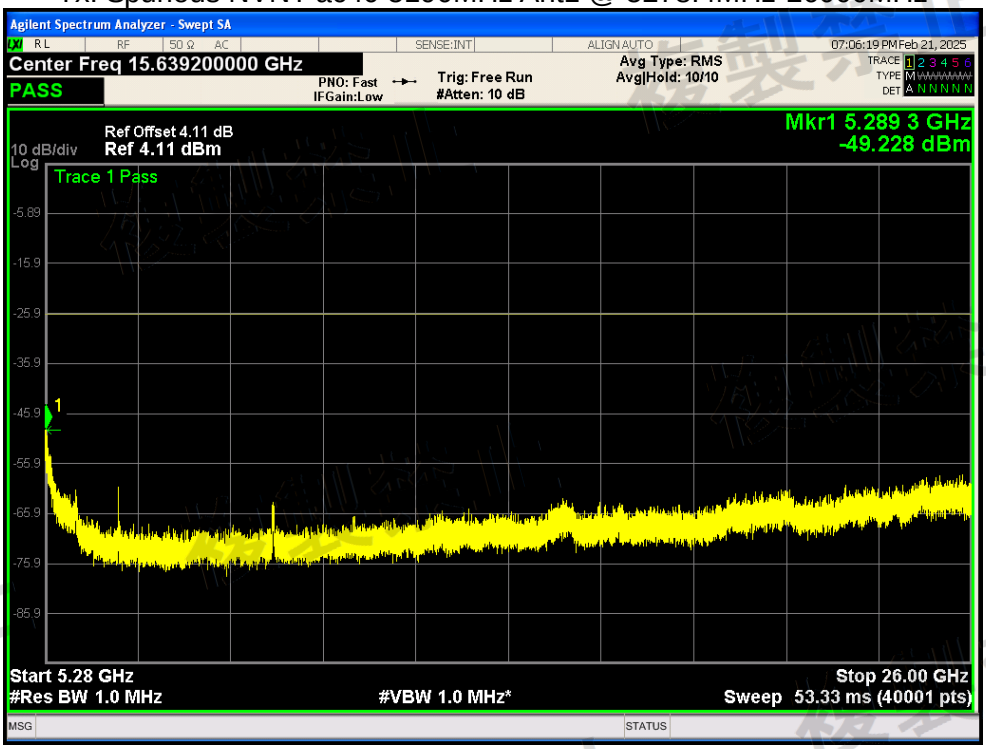
Tx. Spurious NVNT ac40 5190MHz Ant1 @ 5251MHz-5270MHz



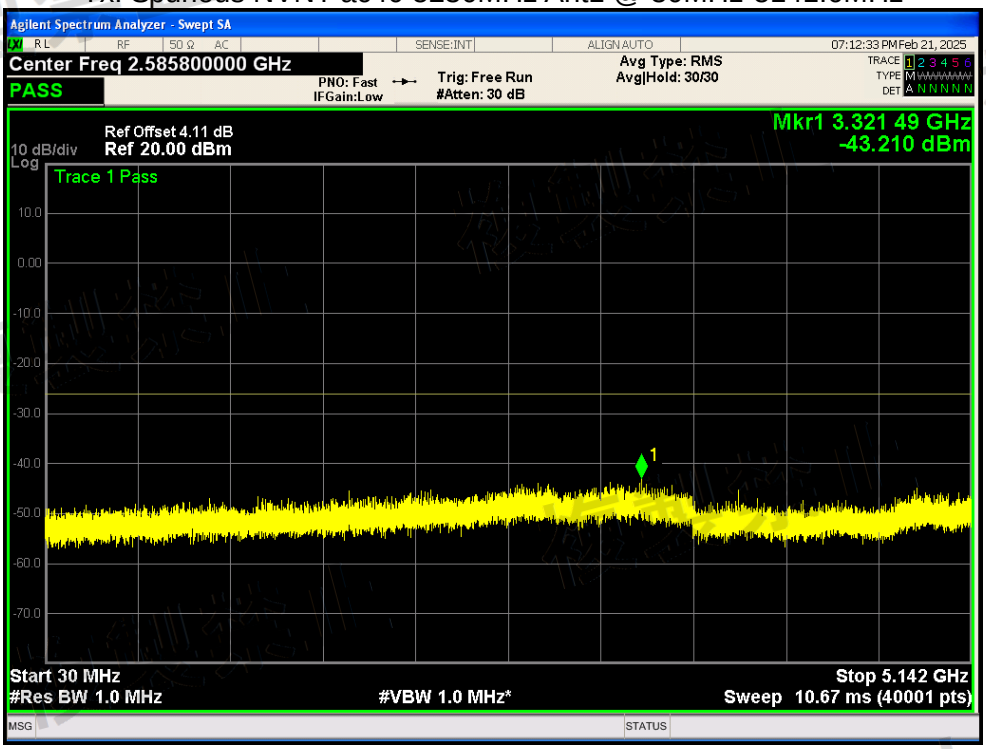
Tx. Spurious NVNT ac40 5190MHz Ant1 @ 5270MHz-5278.4MHz



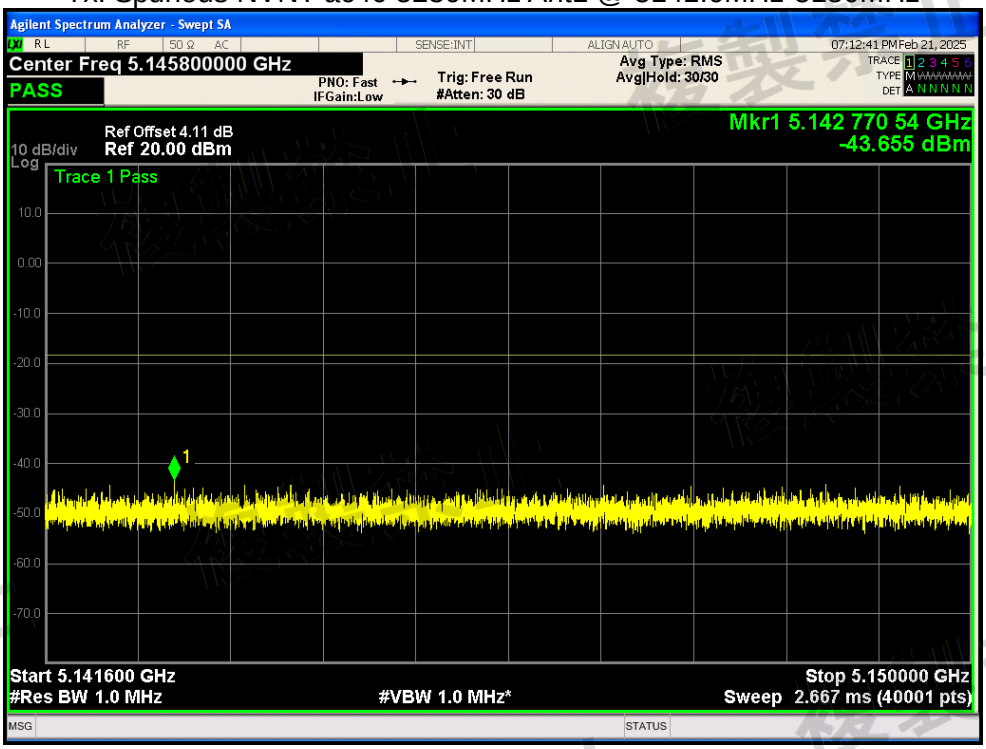
Tx. Spurious NVNT ac40 5190MHz Ant1 @ 5278.4MHz-26000MHz



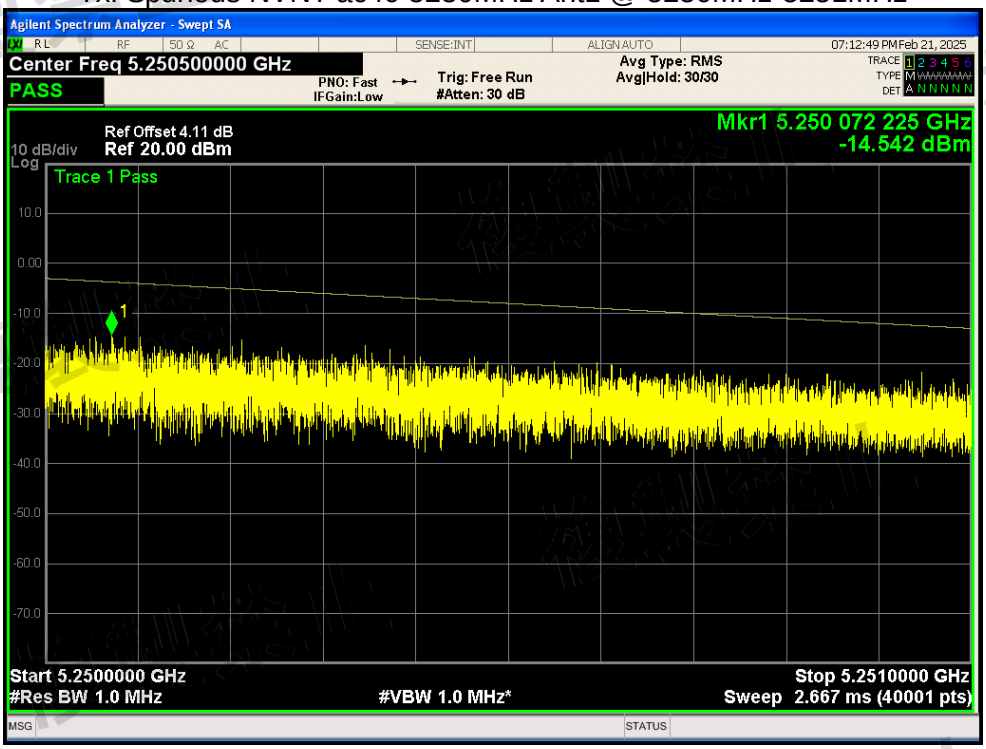
Tx. Spurious NVNT ac40 5230MHz Ant1 @ 30MHz-5141.6MHz



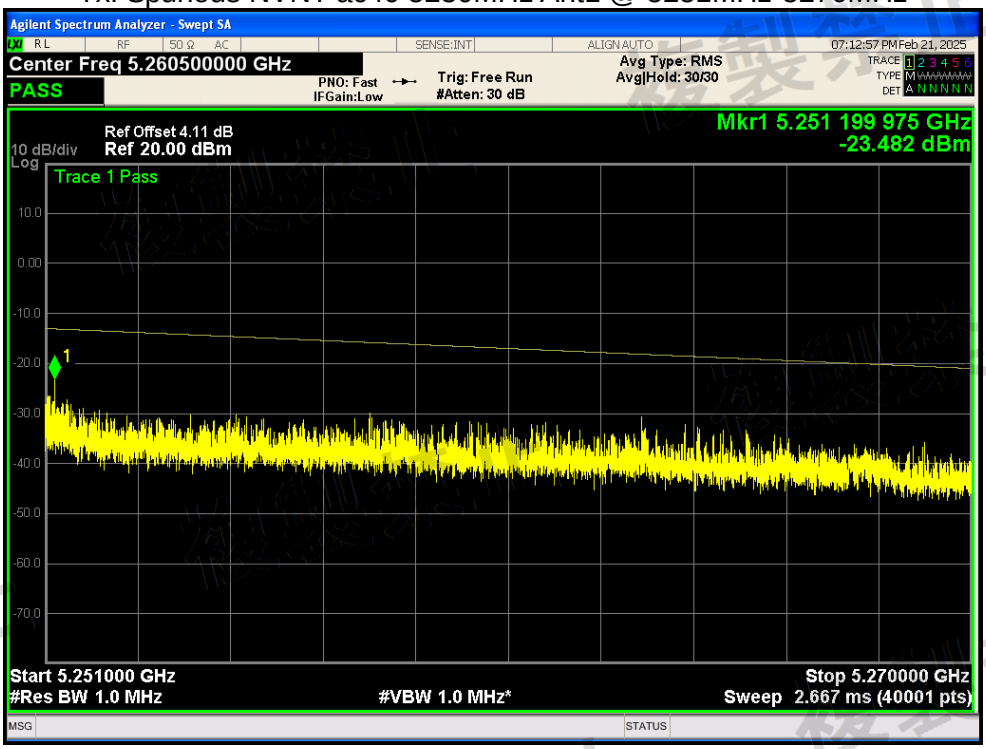
Tx. Spurious NVNT ac40 5230MHz Ant1 @ 5141.6MHz-5150MHz



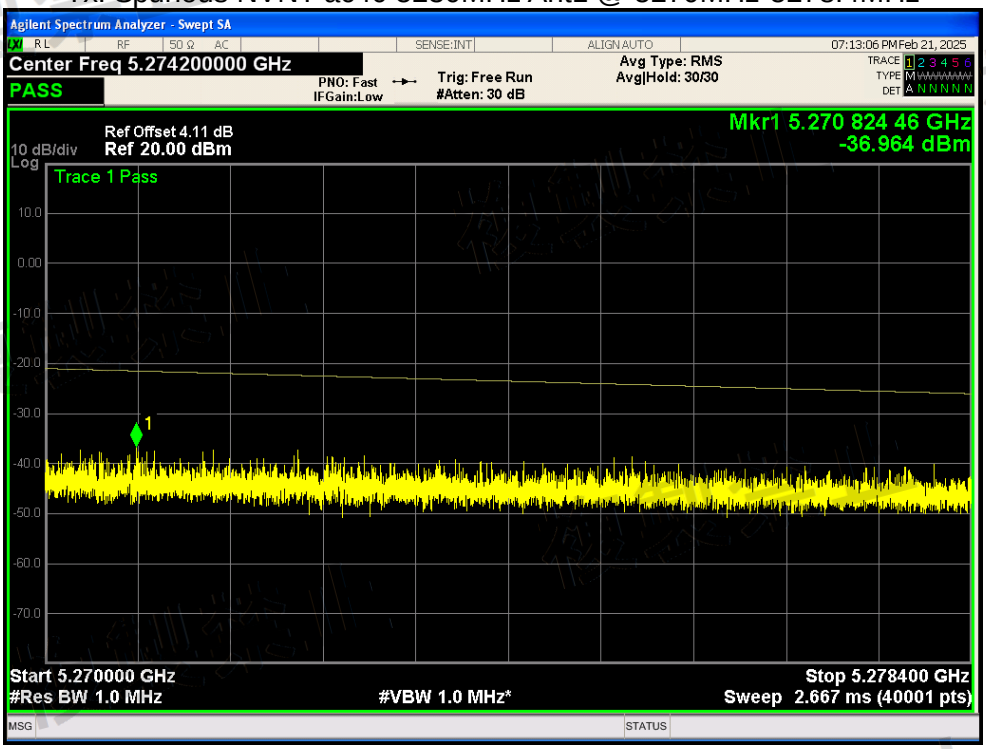
Tx. Spurious NVNT ac40 5230MHz Ant1 @ 5250MHz-5251MHz



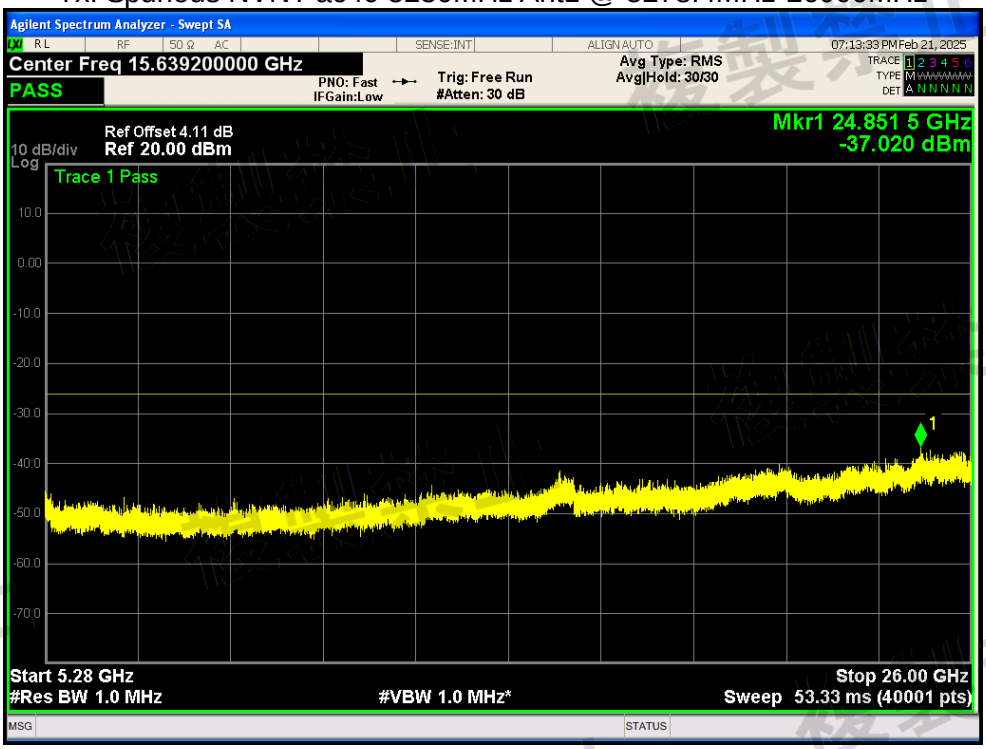
Tx. Spurious NVNT ac40 5230MHz Ant1 @ 5251MHz-5270MHz



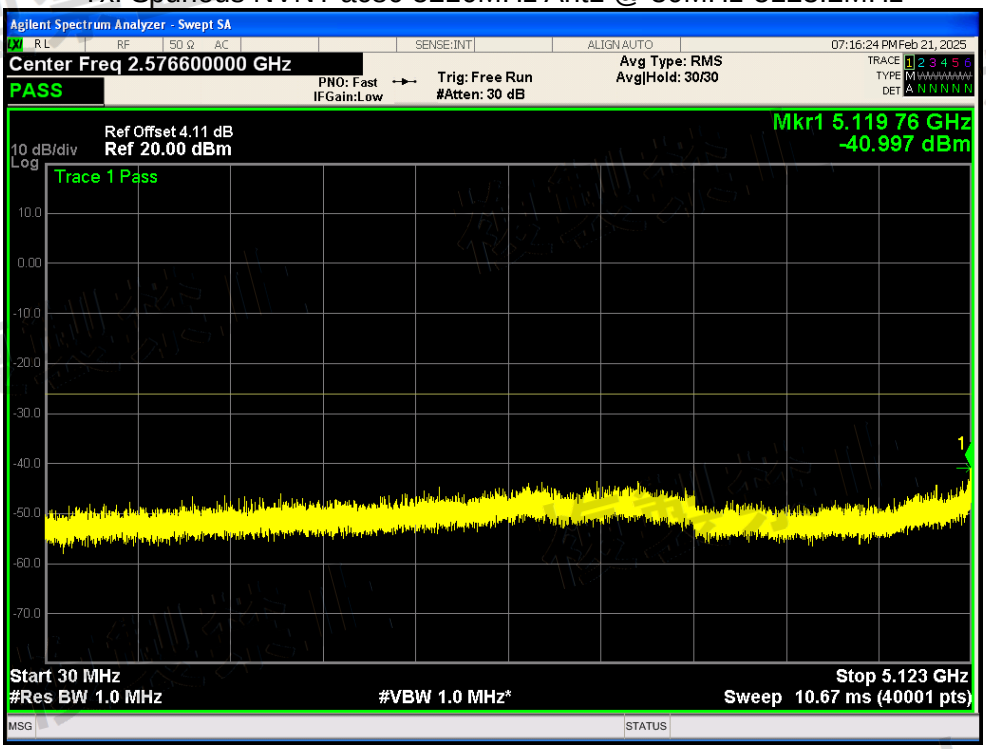
Tx. Spurious NVNT ac40 5230MHz Ant1 @ 5270MHz-5278.4MHz



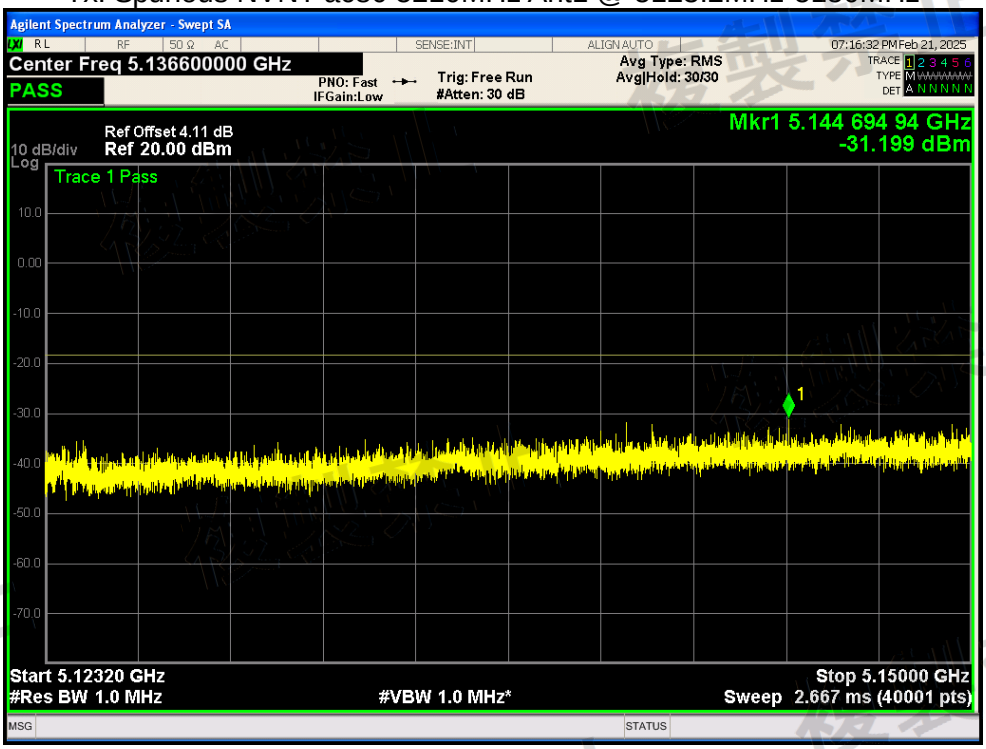
Tx. Spurious NVNT ac40 5230MHz Ant1 @ 5278.4MHz-26000MHz



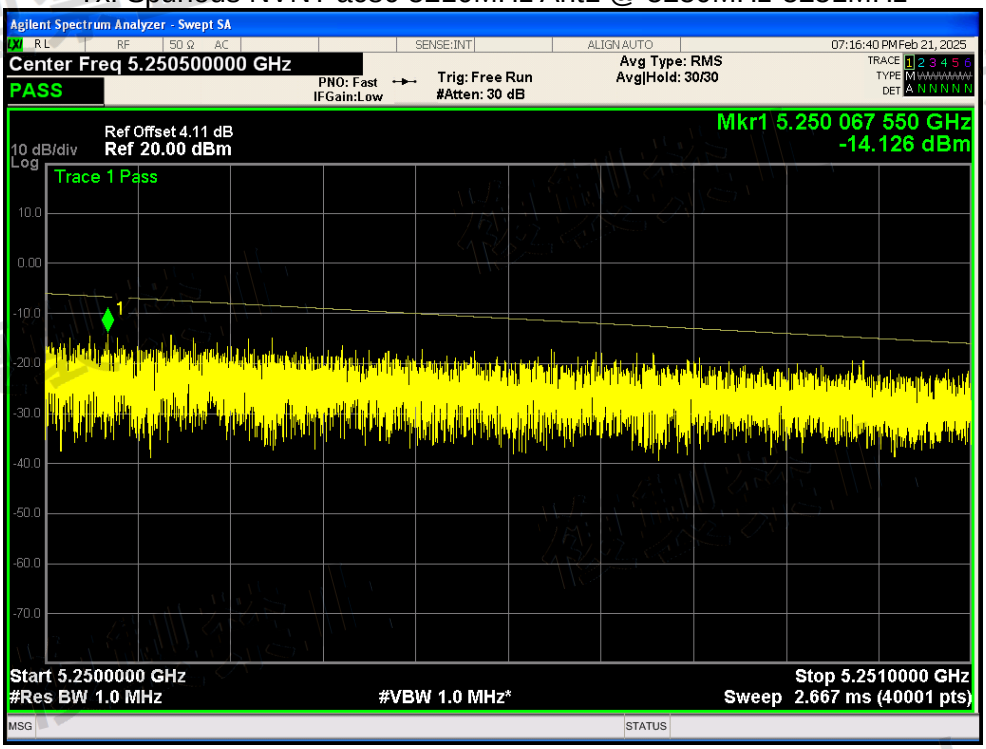
Tx. Spurious NVNT ac80 5210MHz Ant1 @ 30MHz-5123.2MHz



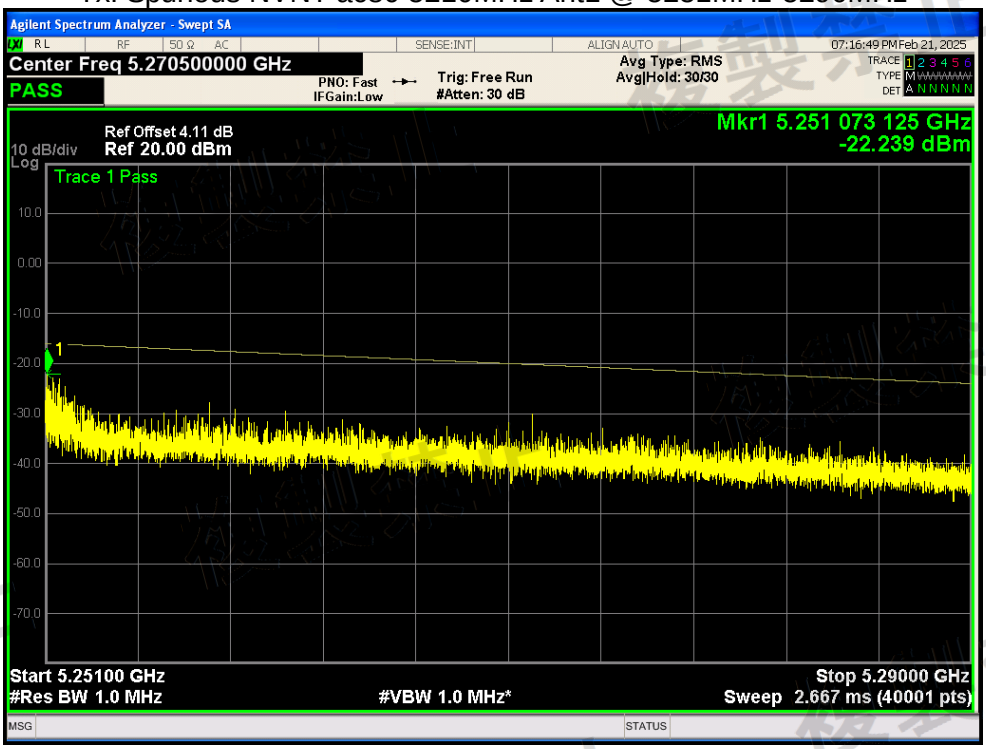
Tx. Spurious NVNT ac80 5210MHz Ant1 @ 5123.2MHz-5150MHz



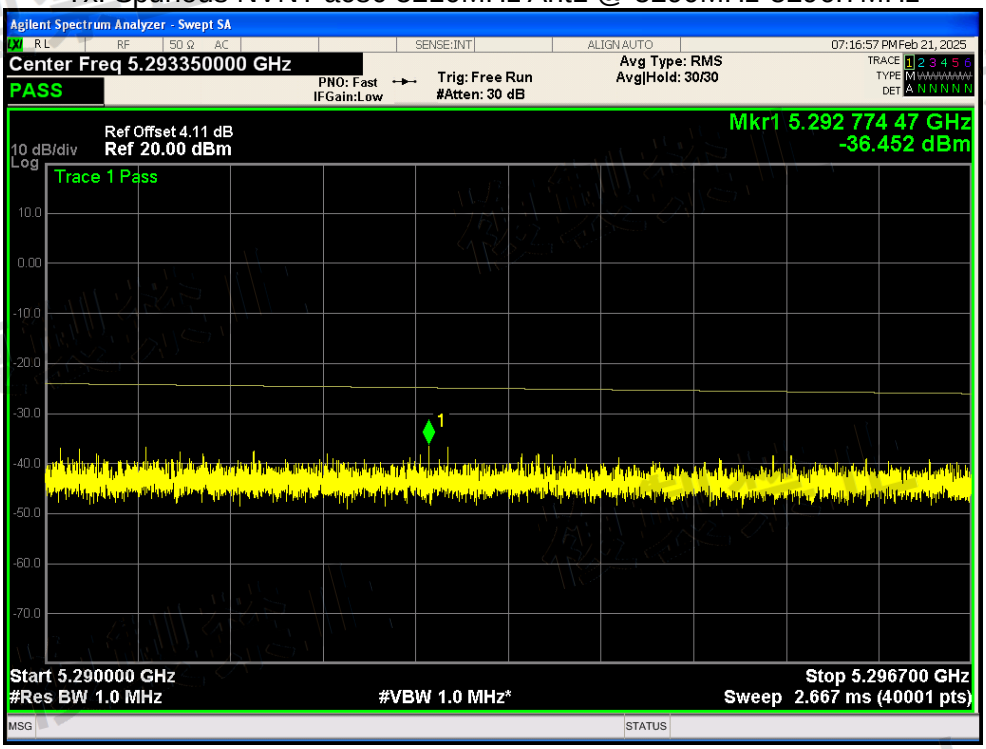
Tx. Spurious NVNT ac80 5210MHz Ant1 @ 5250MHz-5251MHz



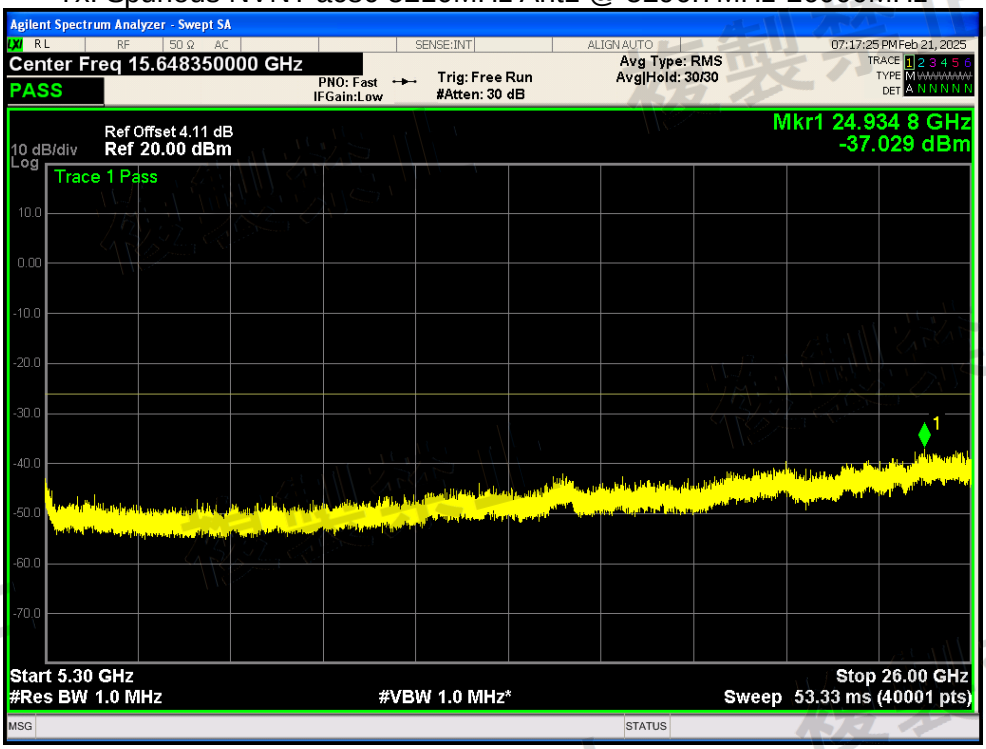
Tx. Spurious NVNT ac80 5210MHz Ant1 @ 5251MHz-5290MHz



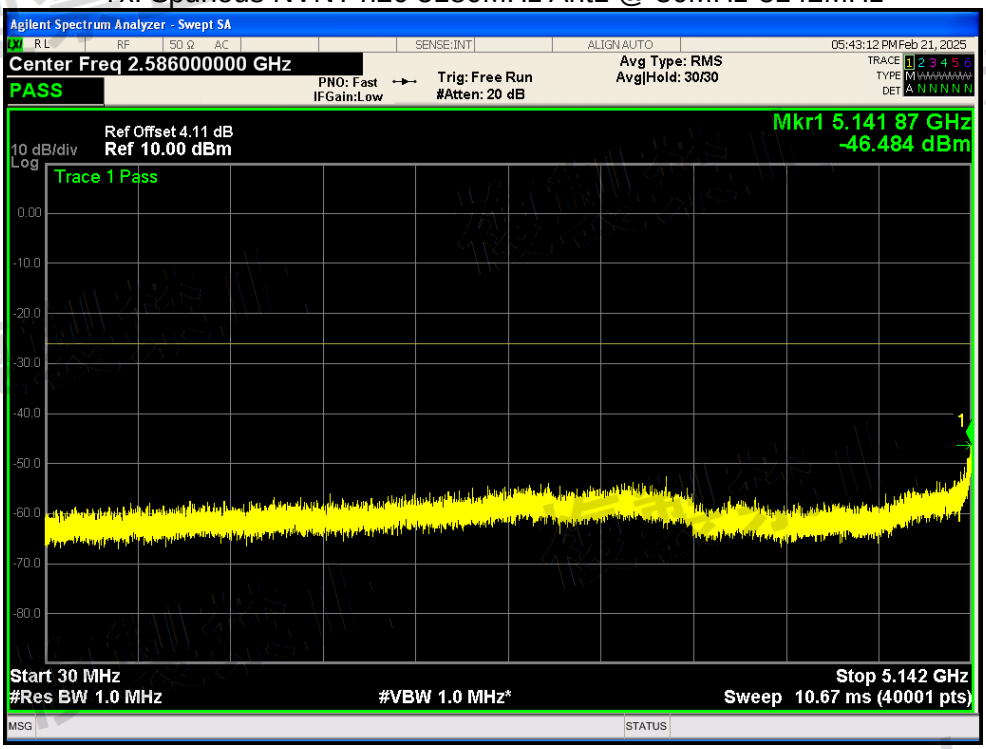
Tx. Spurious NVNT ac80 5210MHz Ant1 @ 5290MHz-5296.7MHz



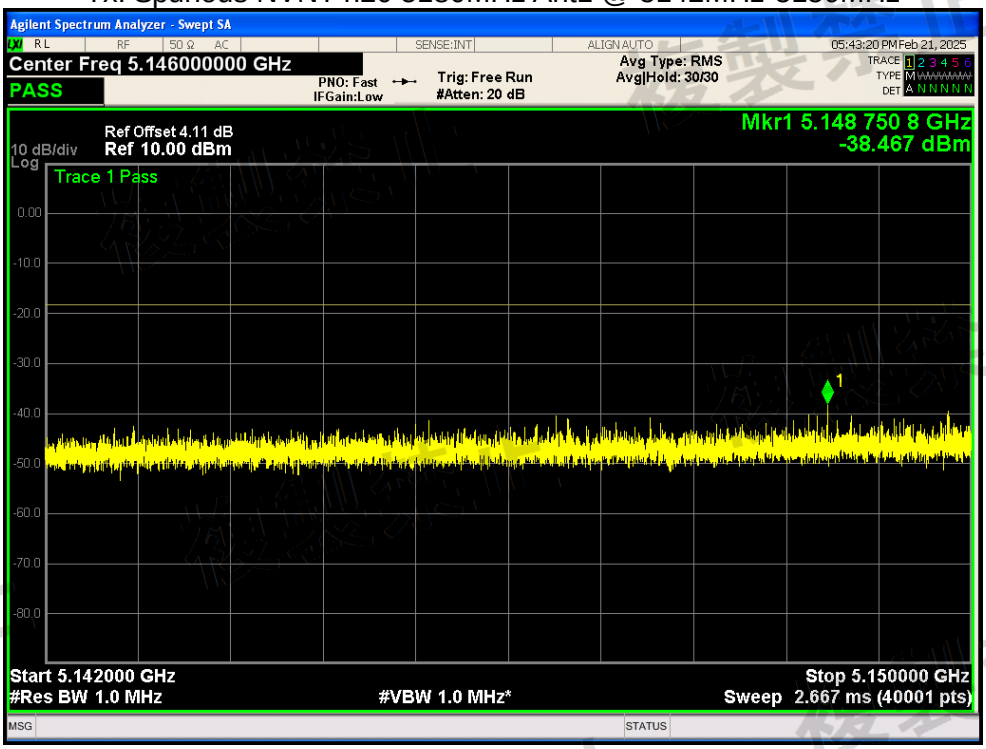
Tx. Spurious NVNT ac80 5210MHz Ant1 @ 5296.7MHz-26000MHz



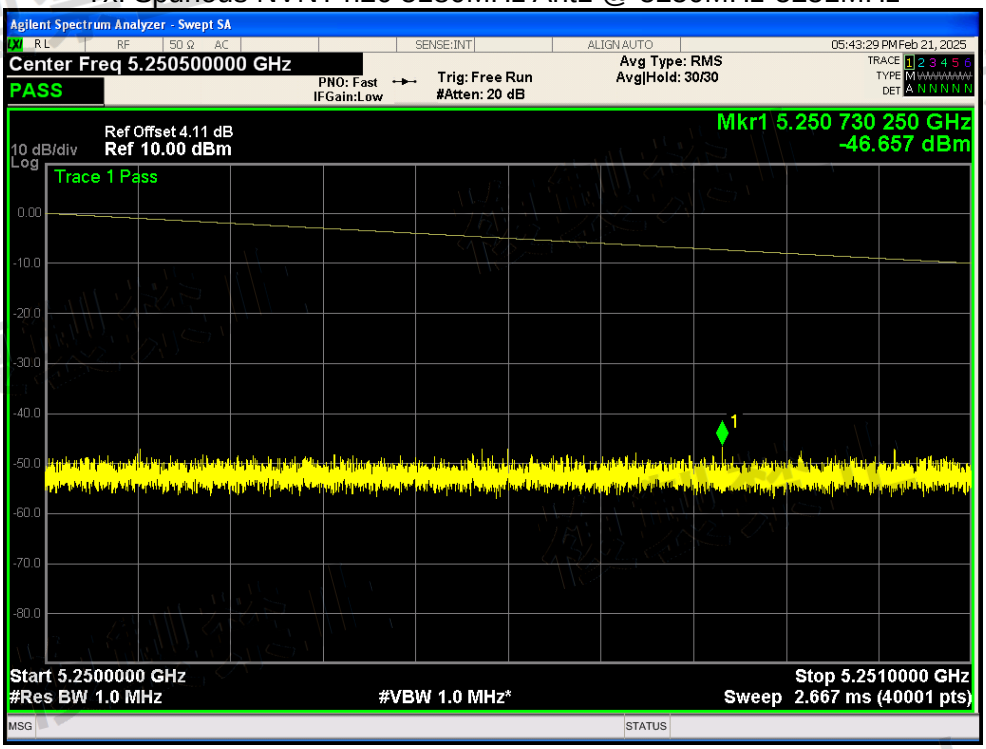
Tx. Spurious NVNT n20 5180MHz Ant1 @ 30MHz-5142MHz



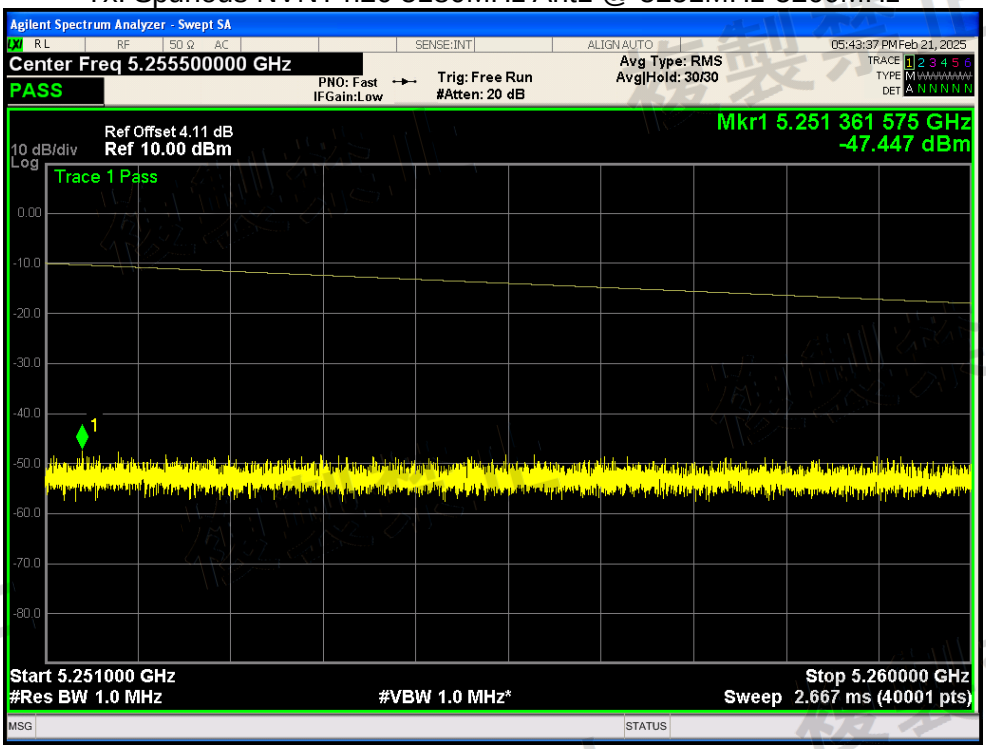
Tx. Spurious NVNT n20 5180MHz Ant1 @ 5142MHz-5150MHz



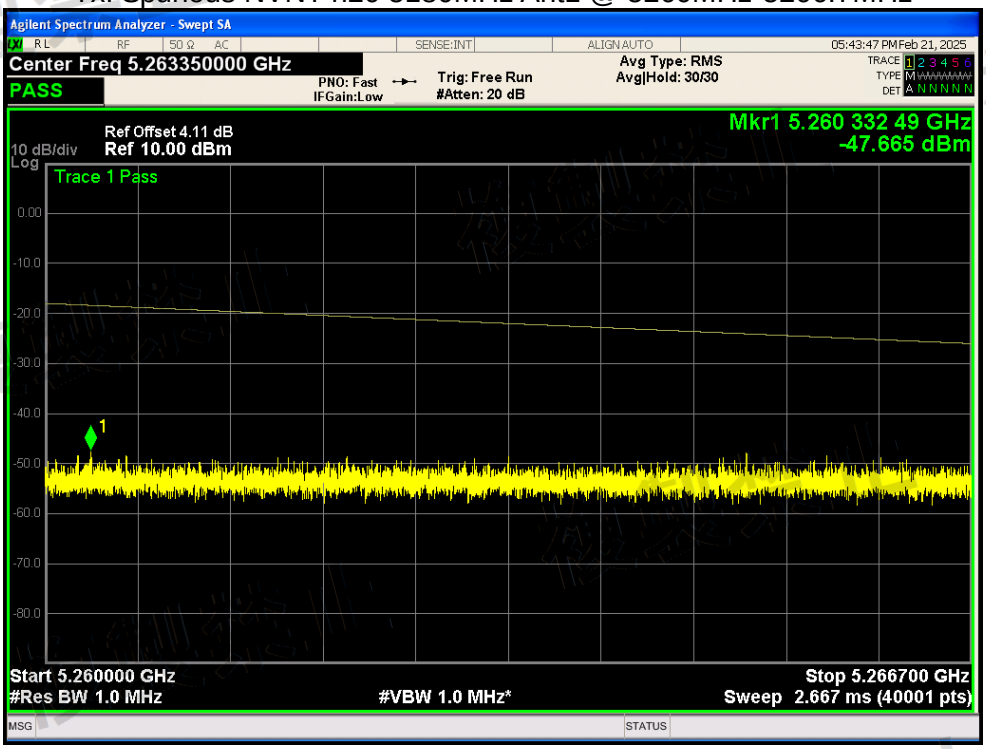
Tx. Spurious NVNT n20 5180MHz Ant1 @ 5250MHz-5251MHz



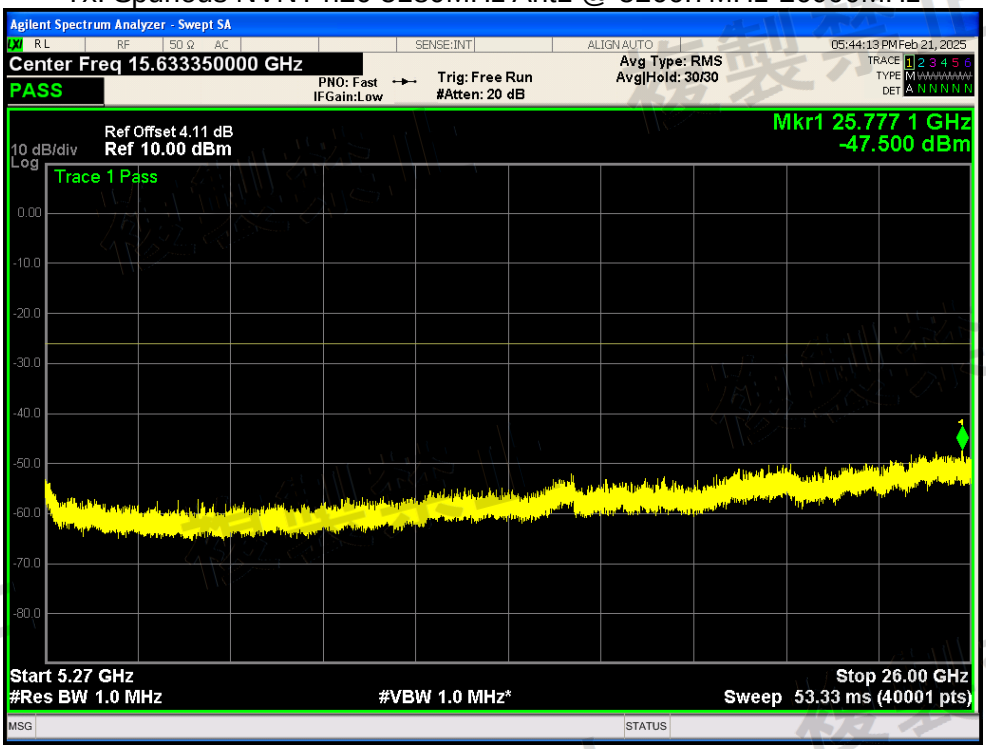
Tx. Spurious NVNT n20 5180MHz Ant1 @ 5251MHz-5260MHz



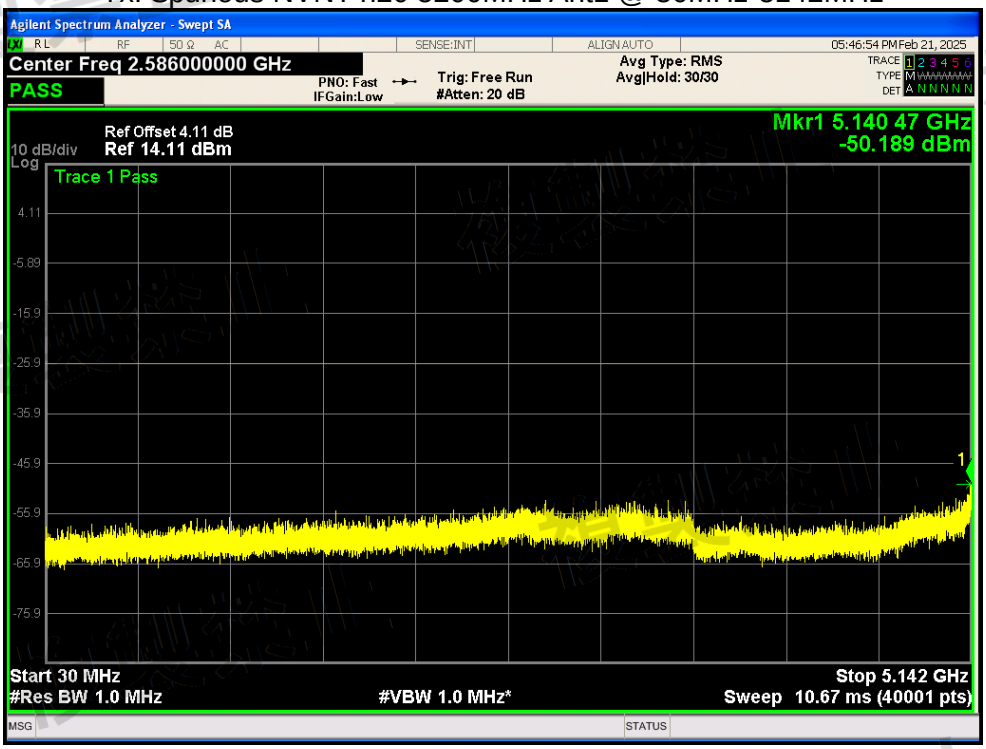
Tx. Spurious NVNT n20 5180MHz Ant1 @ 5260MHz-5266.7MHz



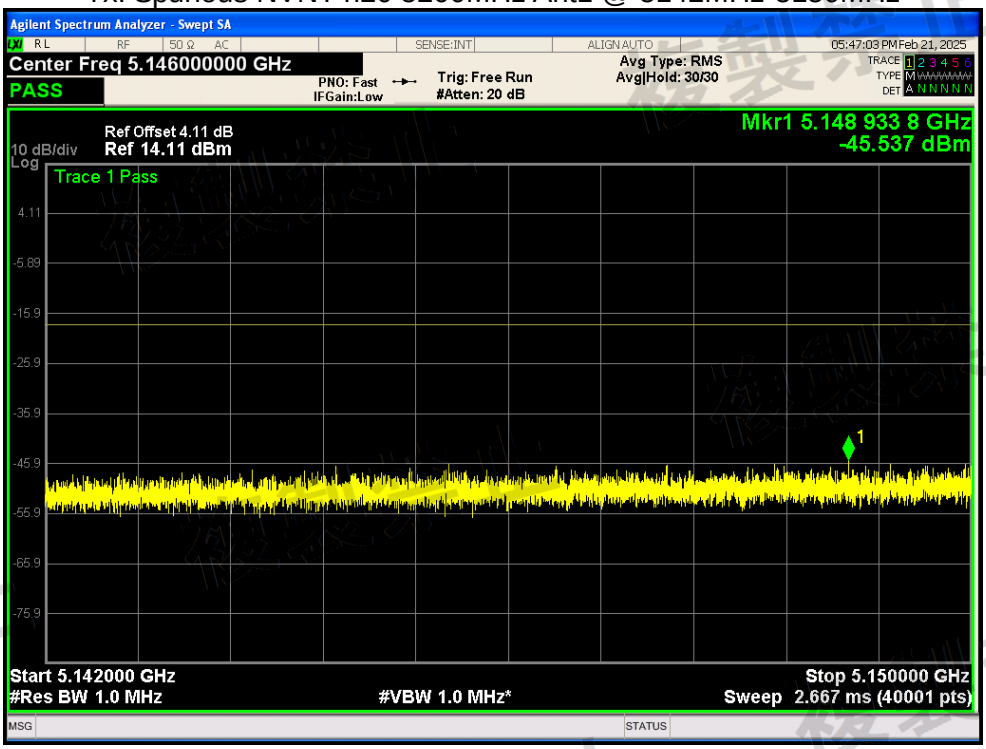
Tx. Spurious NVNT n20 5180MHz Ant1 @ 5266.7MHz-26000MHz



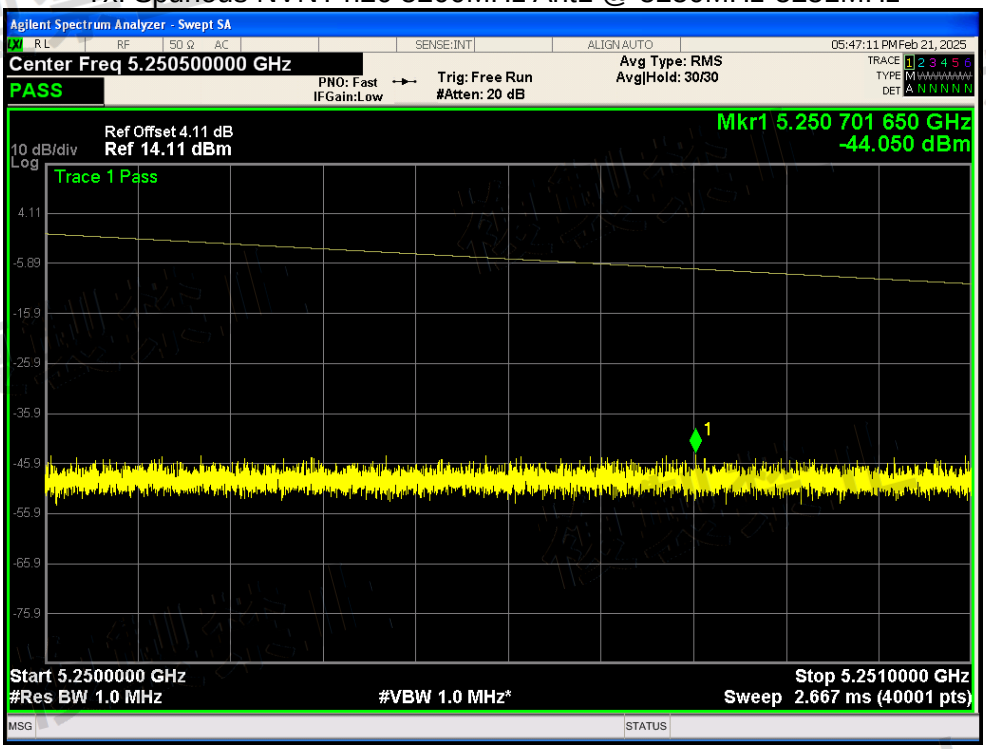
Tx. Spurious NVNT n20 5200MHz Ant1 @ 30MHz-5142MHz



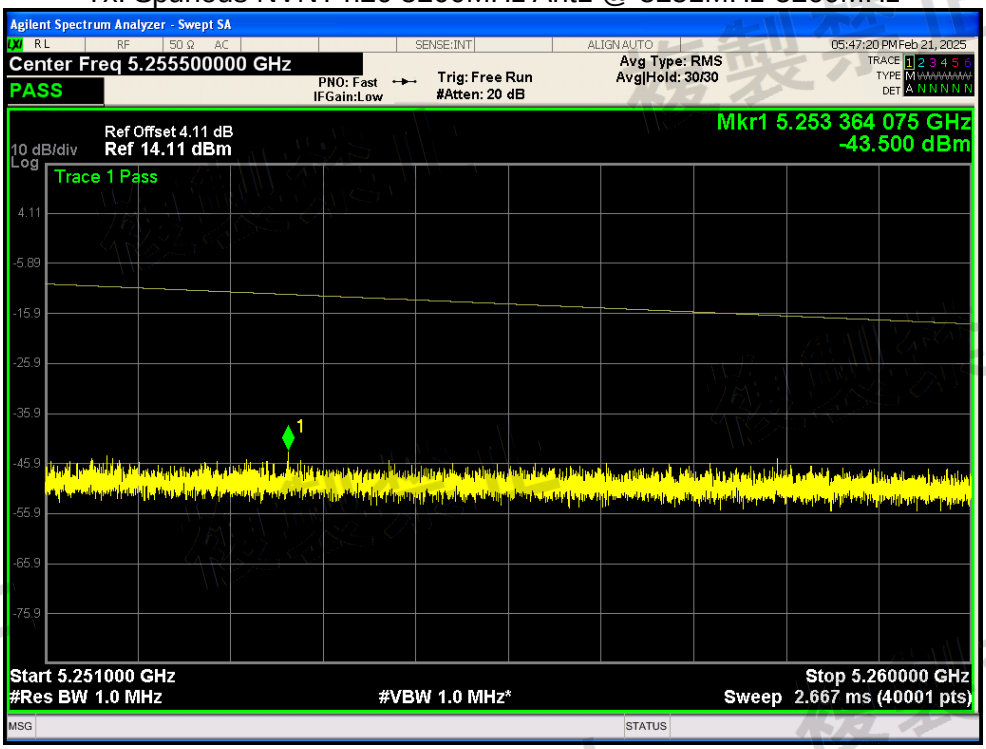
Tx. Spurious NVNT n20 5200MHz Ant1 @ 5142MHz-5150MHz



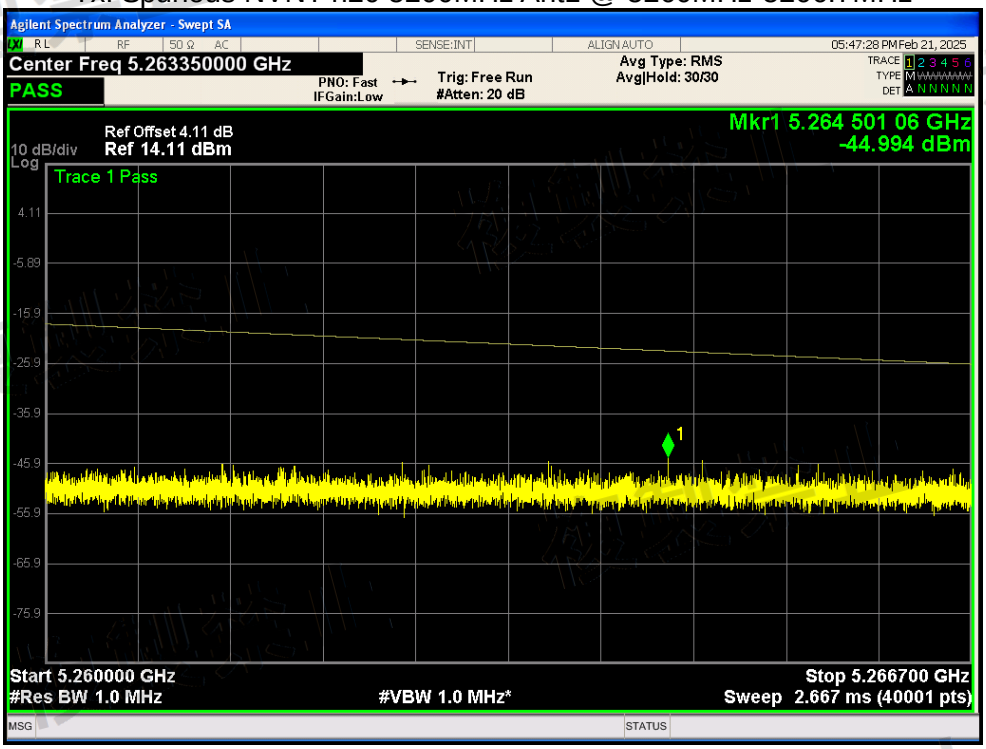
Tx. Spurious NVNT n20 5200MHz Ant1 @ 5250MHz-5251MHz



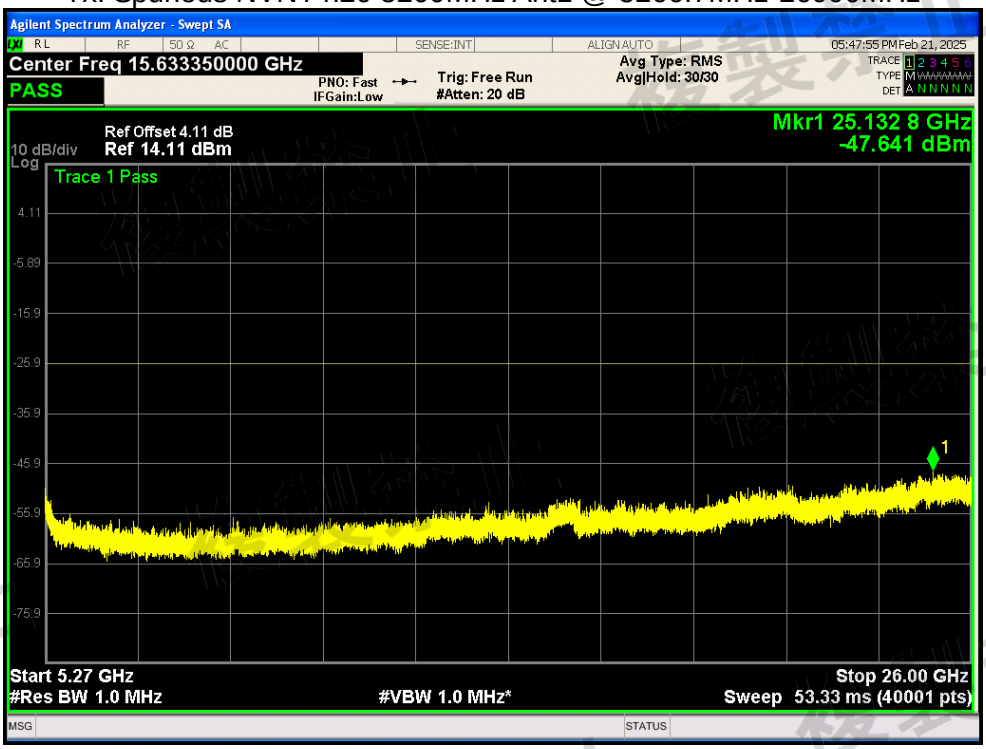
Tx. Spurious NVNT n20 5200MHz Ant1 @ 5251MHz-5260MHz



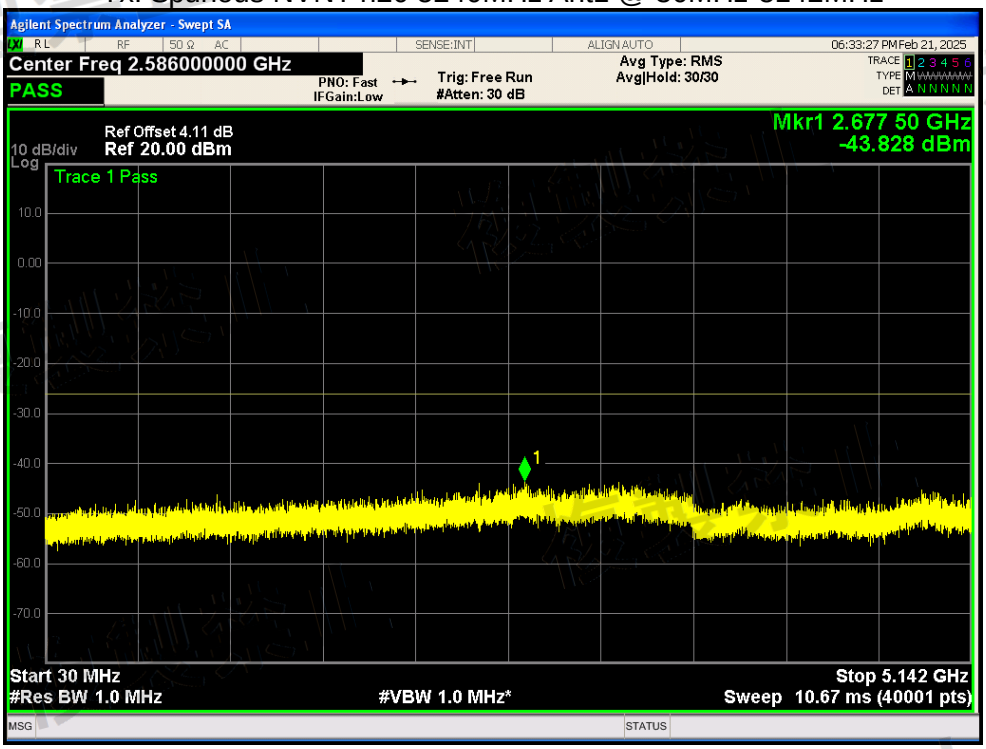
Tx. Spurious NVNT n20 5200MHz Ant1 @ 5260MHz-5266.7MHz



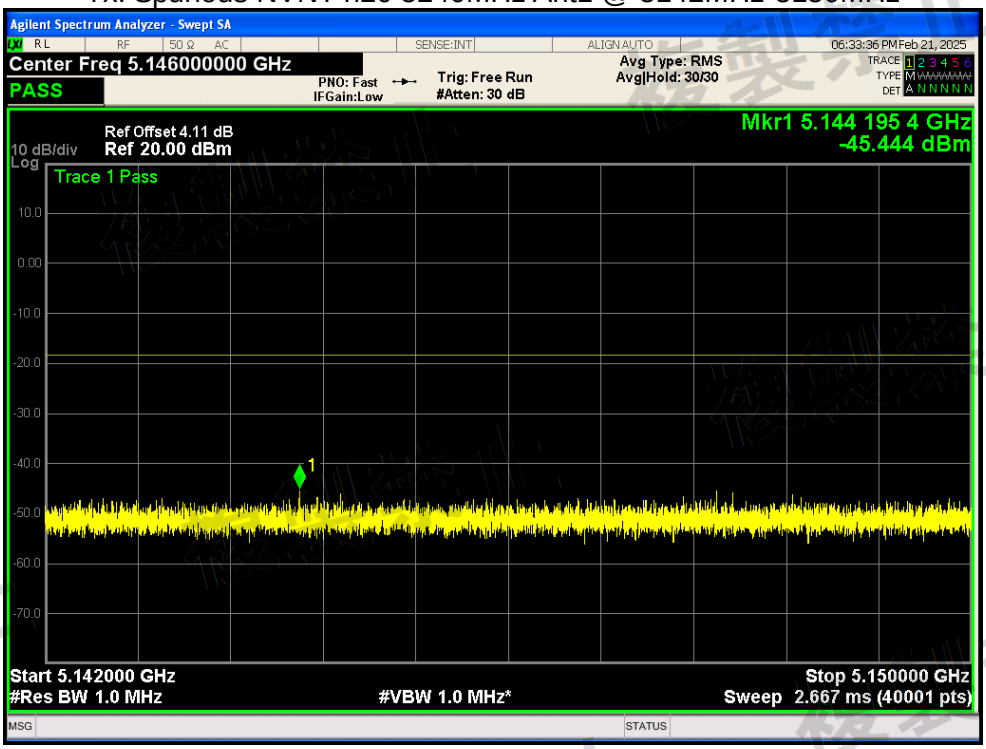
Tx. Spurious NVNT n20 5200MHz Ant1 @ 5266.7MHz-26000MHz



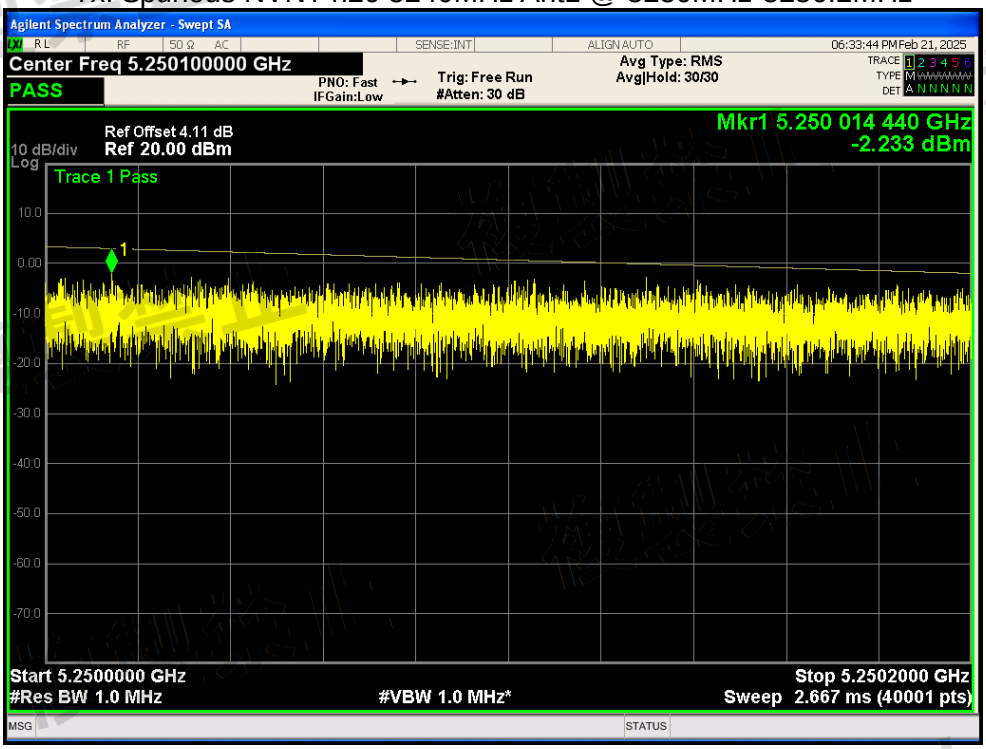
Tx. Spurious NVNT n20 5240MHz Ant1 @ 30MHz-5142MHz



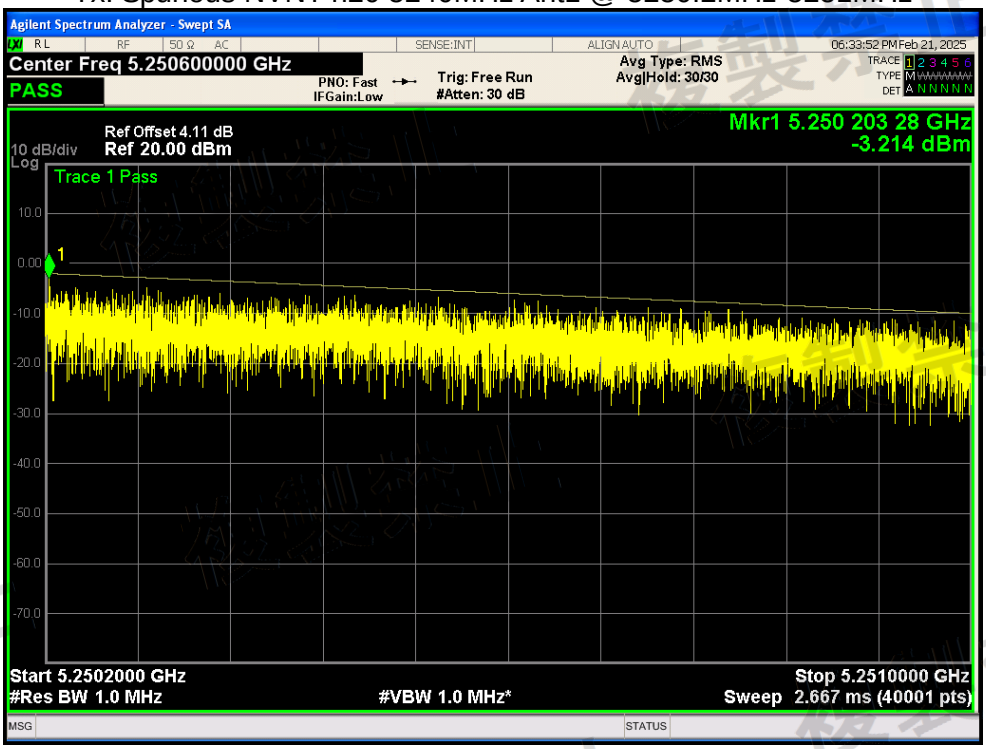
Tx. Spurious NVNT n20 5240MHz Ant1 @ 5142MHz-5150MHz



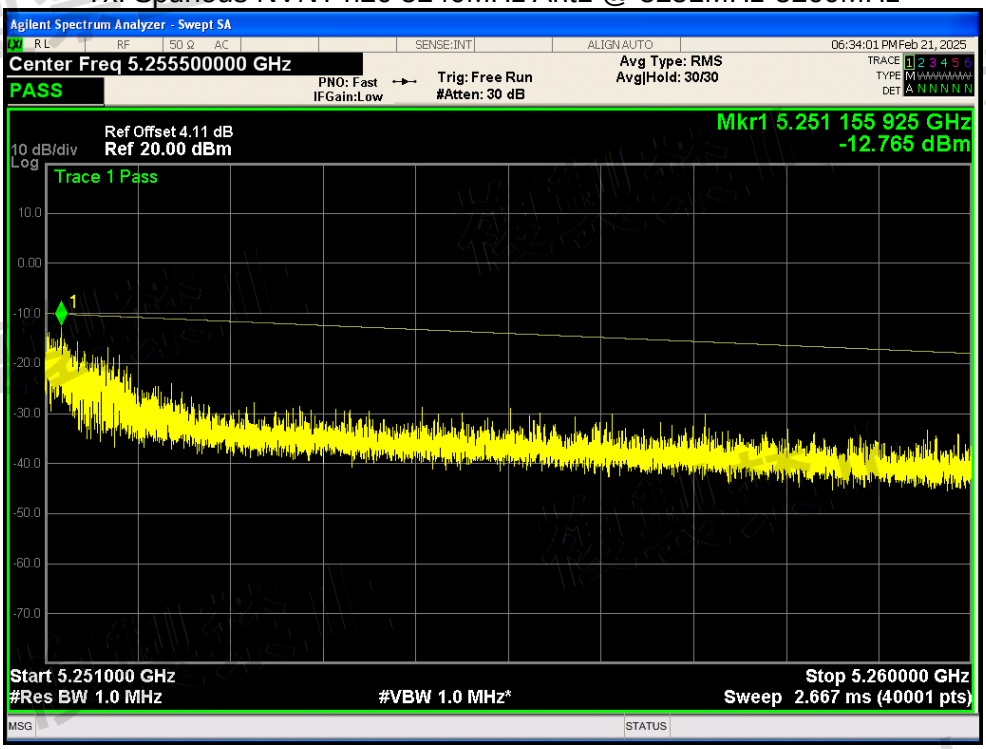
Tx. Spurious NVNT n20 5240MHz Ant1 @ 5250MHz-5250.2MHz



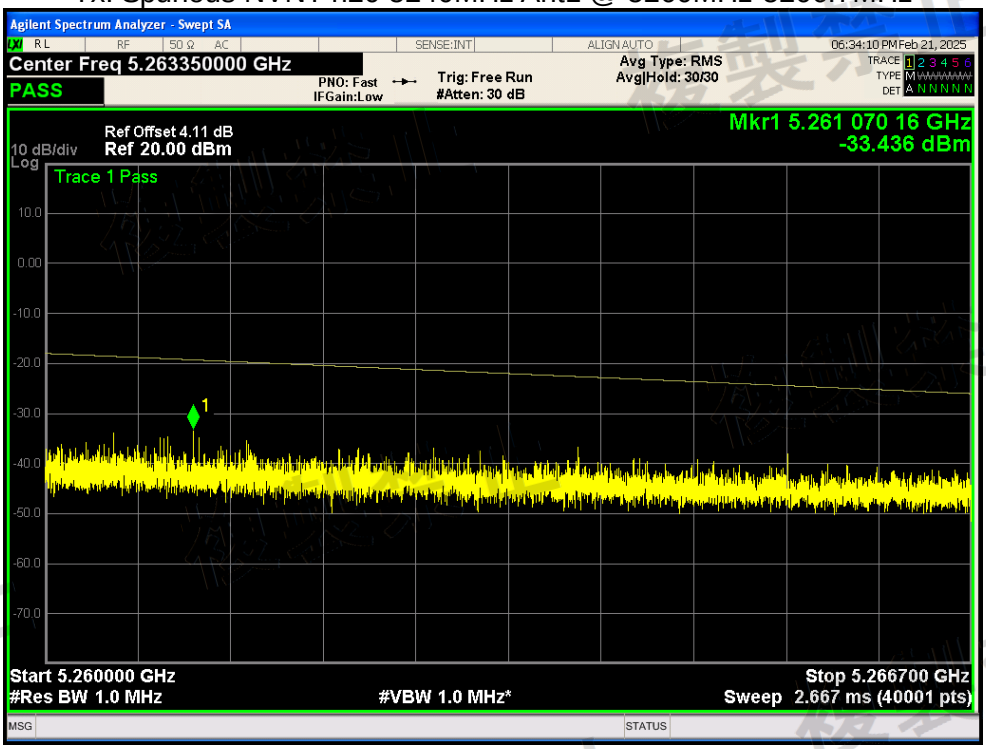
Tx. Spurious NVNT n20 5240MHz Ant1 @ 5250.2MHz-5251MHz



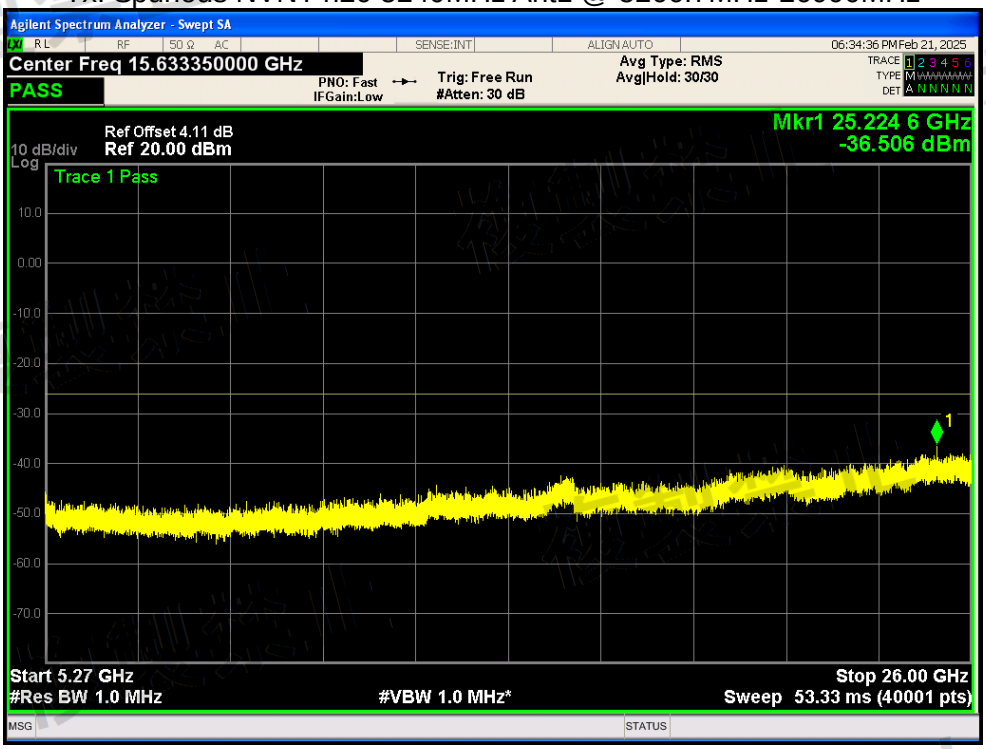
Tx. Spurious NVNT n20 5240MHz Ant1 @ 5251MHz-5260MHz



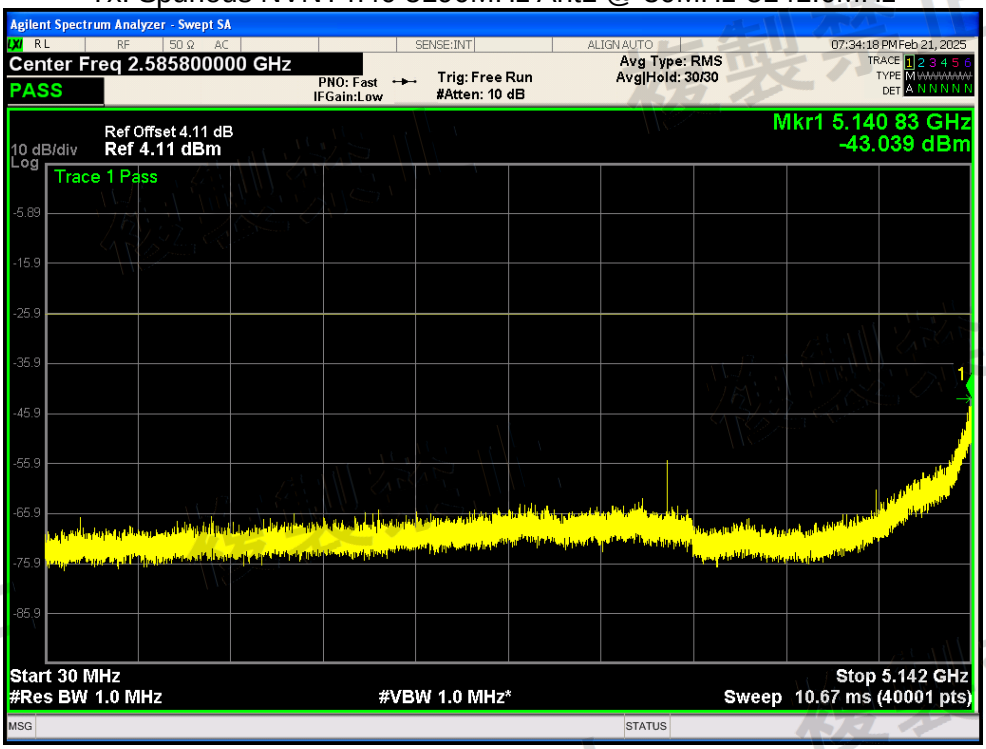
Tx. Spurious NVNT n20 5240MHz Ant1 @ 5260MHz-5266.7MHz



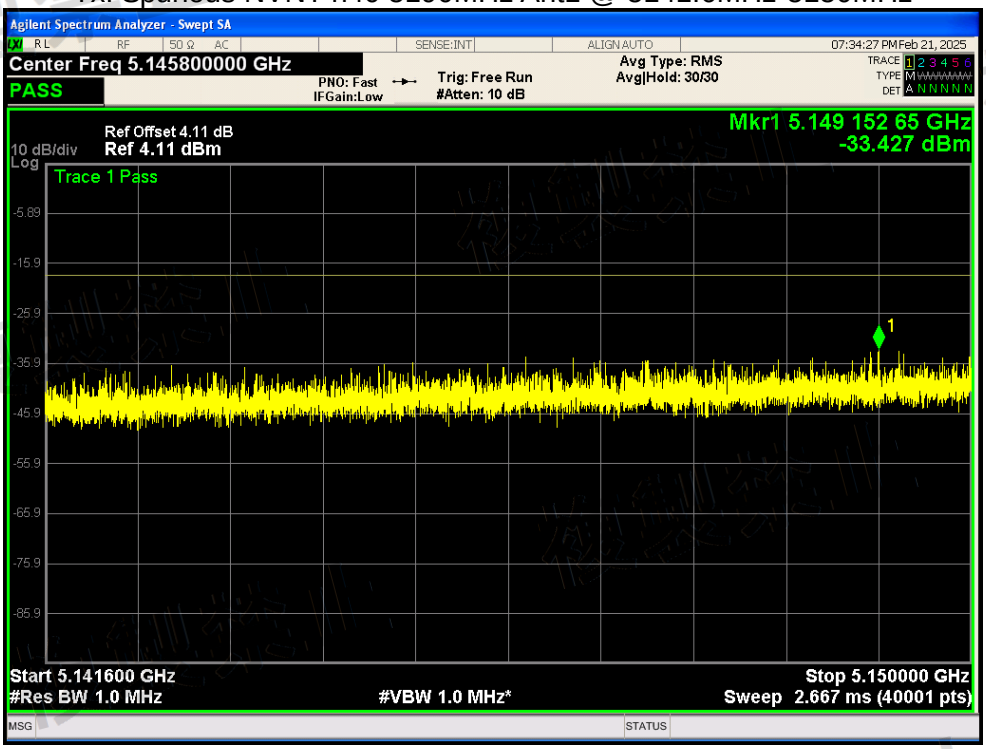
Tx. Spurious NVNT n20 5240MHz Ant1 @ 5266.7MHz-26000MHz



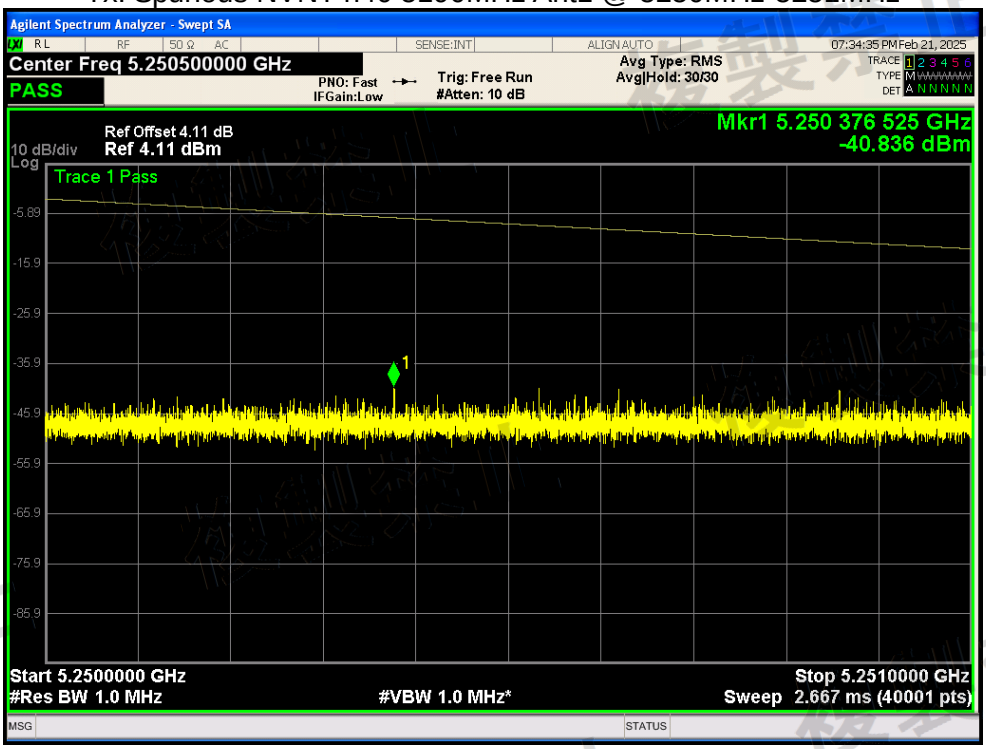
Tx. Spurious NVNT n40 5190MHz Ant1 @ 30MHz-5141.6MHz



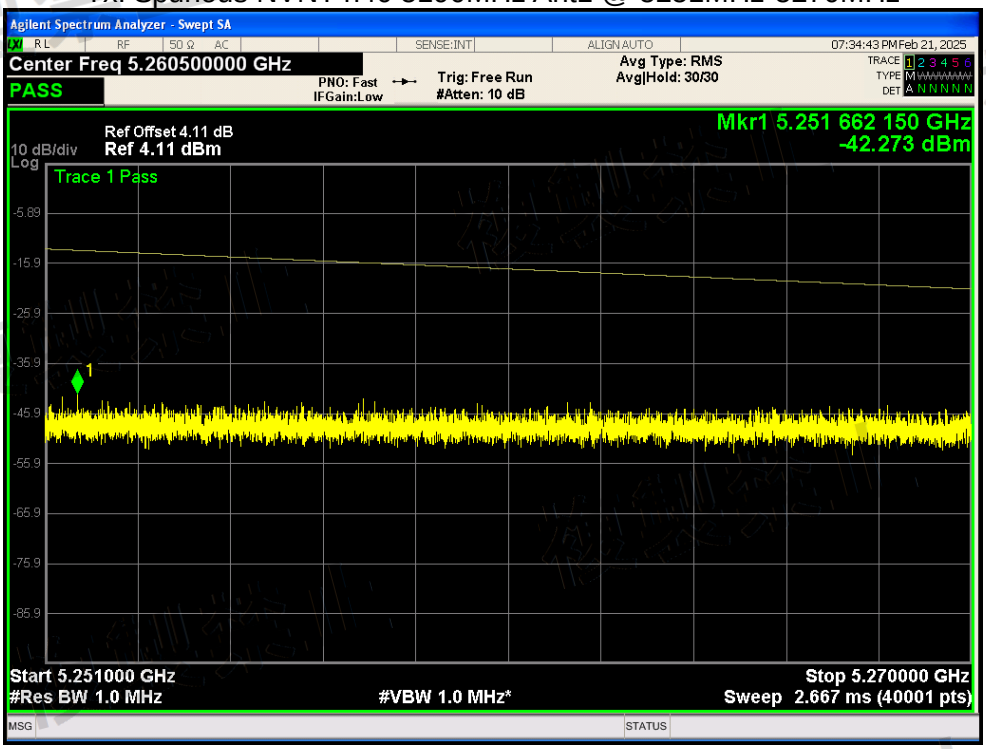
Tx. Spurious NVNT n40 5190MHz Ant1 @ 5141.6MHz-5150MHz



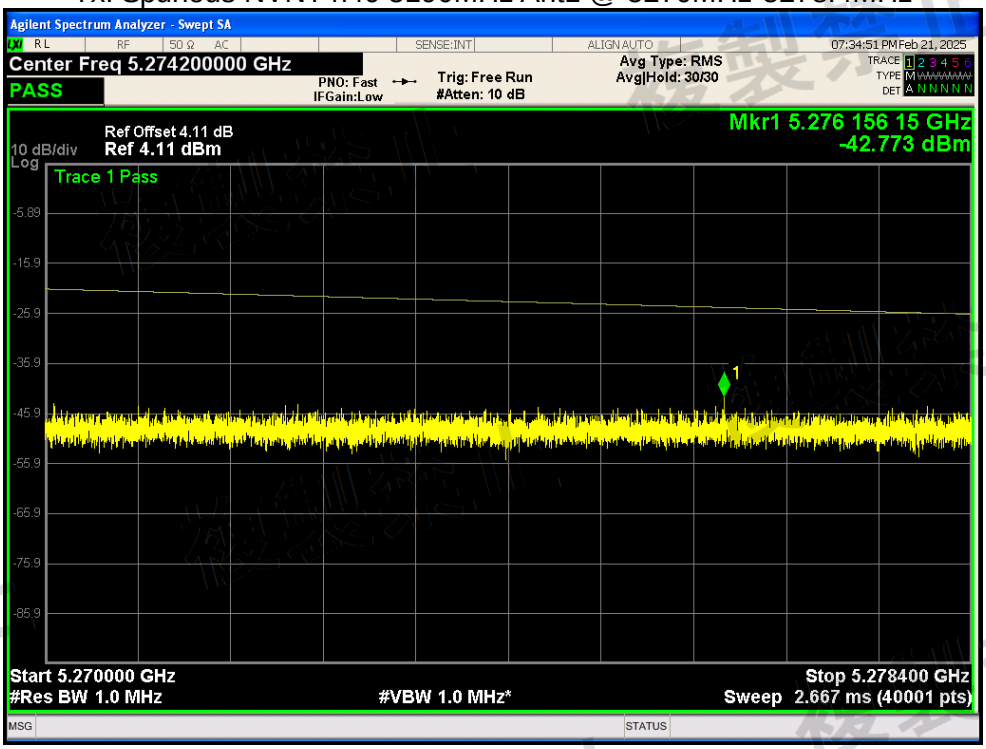
Tx. Spurious NVNT n40 5190MHz Ant1 @ 5250MHz-5251MHz



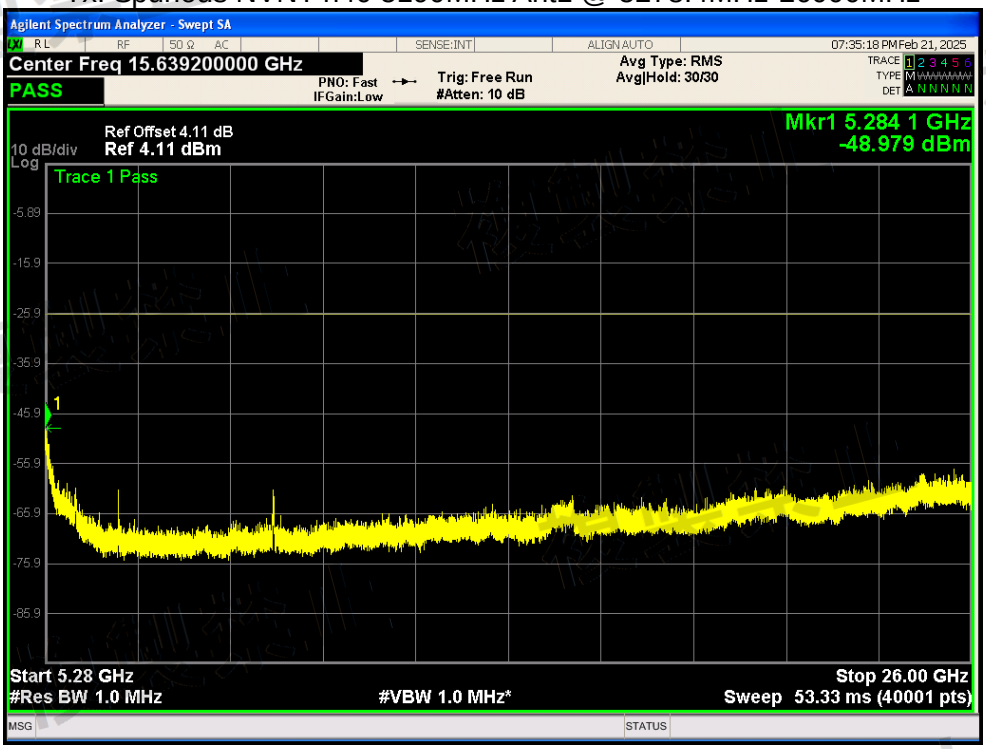
Tx. Spurious NVNT n40 5190MHz Ant1 @ 5251MHz-5270MHz



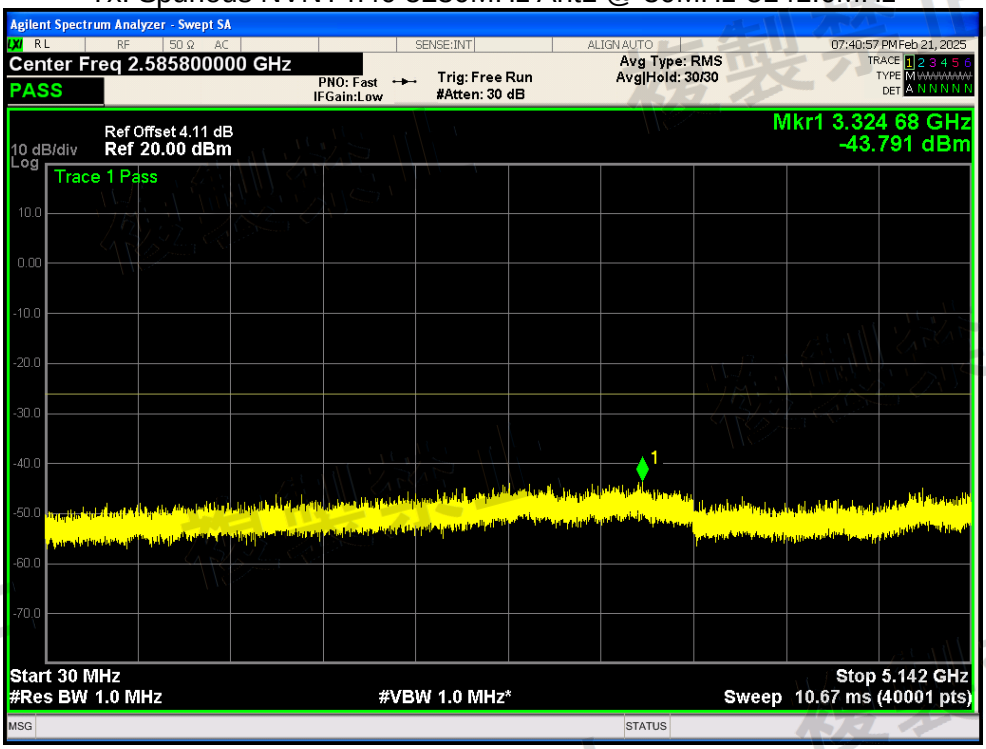
Tx. Spurious NVNT n40 5190MHz Ant1 @ 5270MHz-5278.4MHz



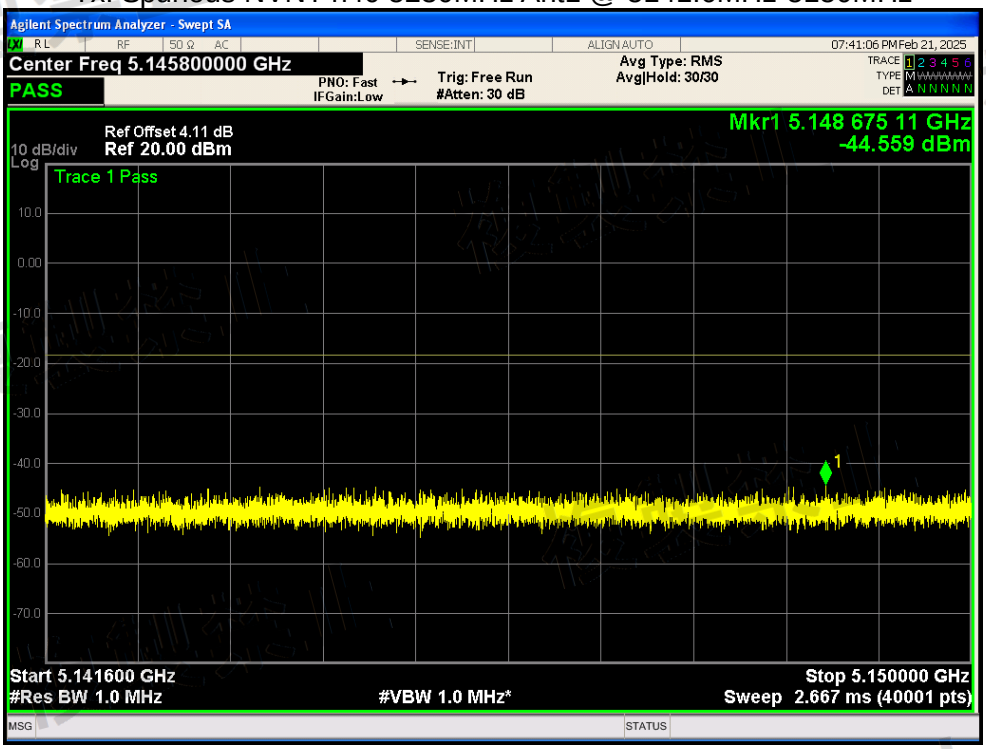
Tx. Spurious NVNT n40 5190MHz Ant1 @ 5278.4MHz-26000MHz



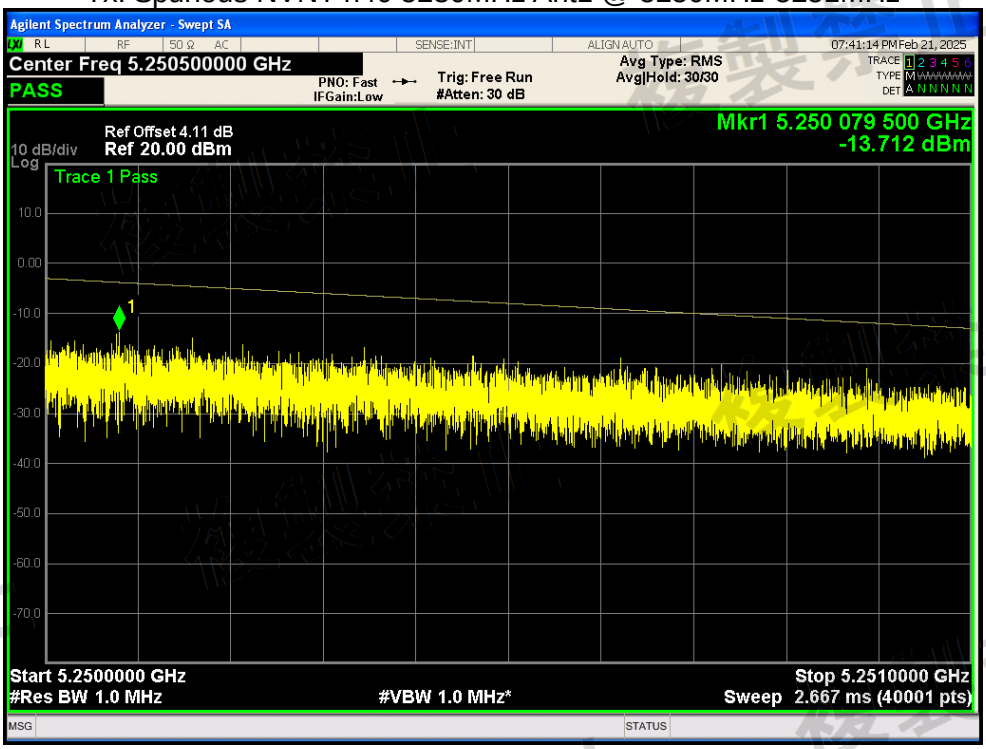
Tx. Spurious NVNT n40 5230MHz Ant1 @ 30MHz-5141.6MHz



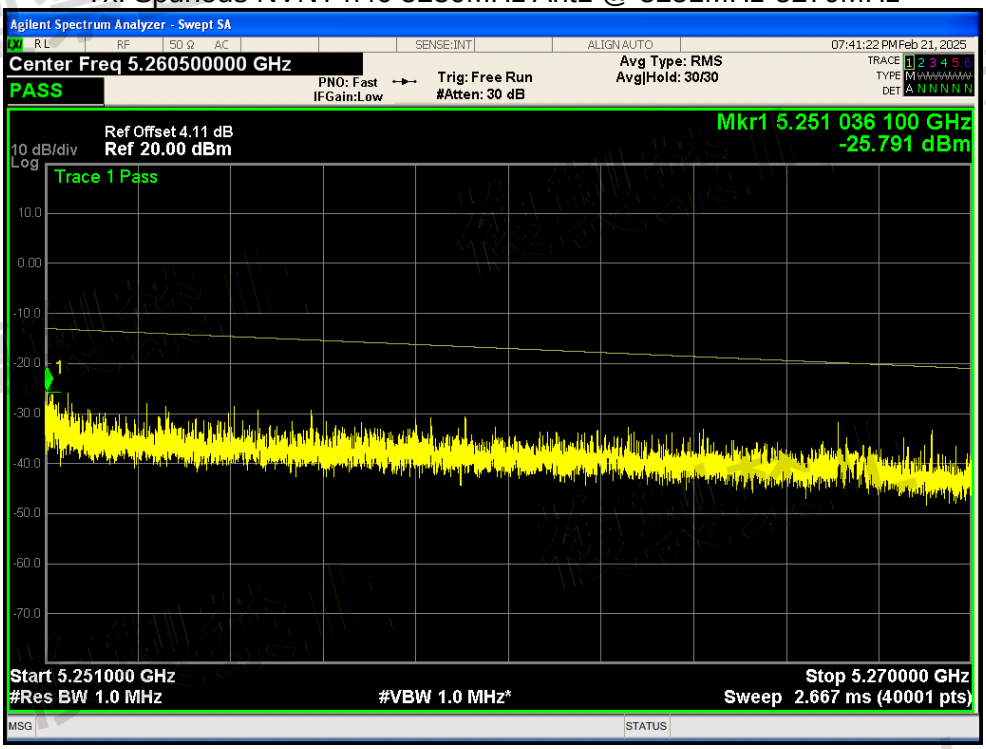
Tx. Spurious NVNT n40 5230MHz Ant1 @ 5141.6MHz-5150MHz



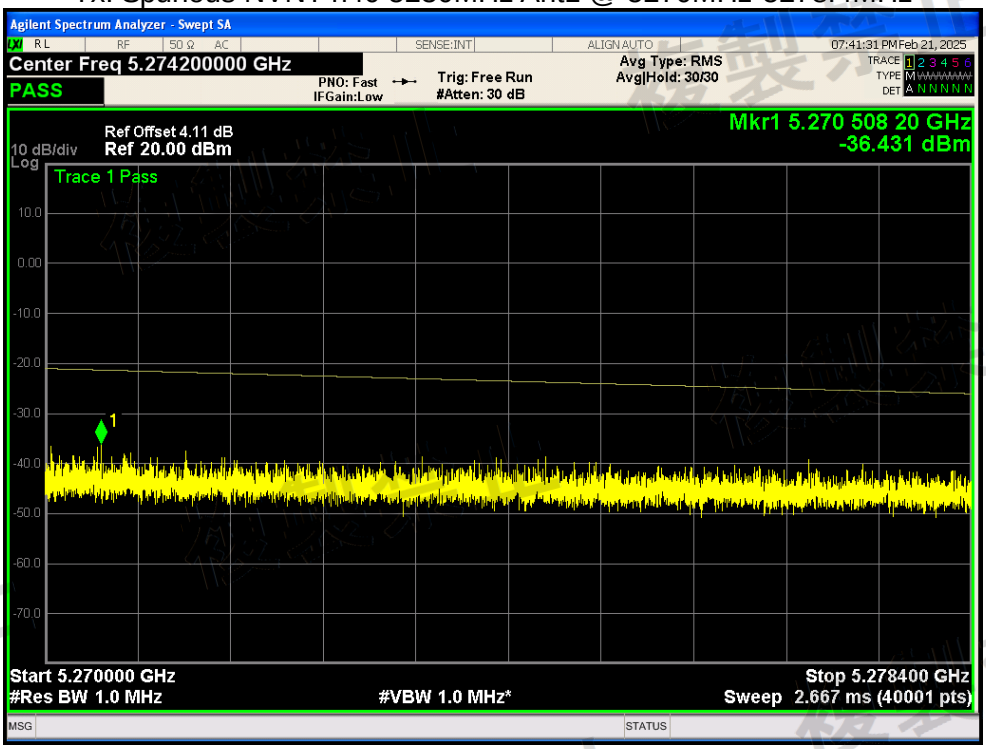
Tx. Spurious NVNT n40 5230MHz Ant1 @ 5250MHz-5251MHz



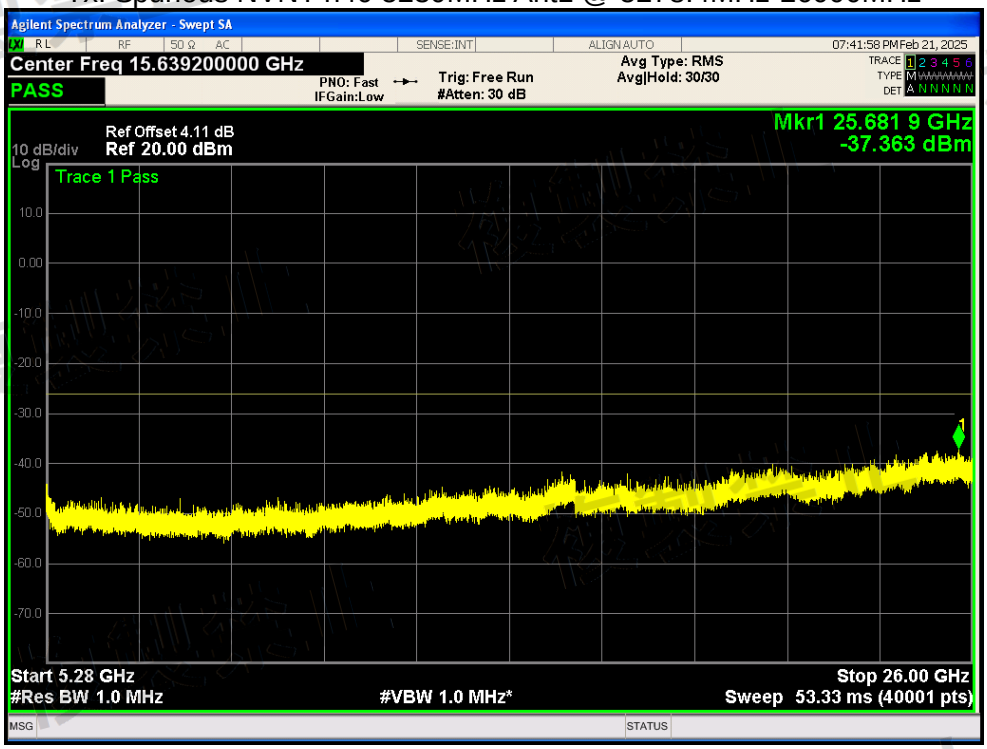
Tx. Spurious NVNT n40 5230MHz Ant1 @ 5251MHz-5270MHz



Tx. Spurious NVNT n40 5230MHz Ant1 @ 5270MHz-5278.4MHz



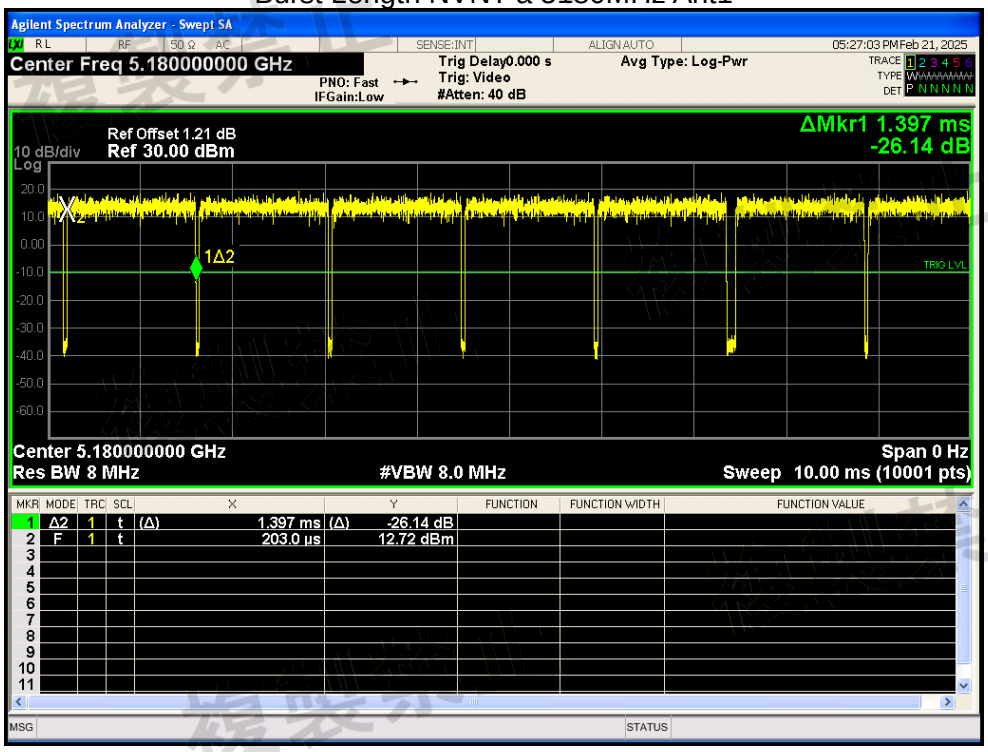
Tx. Spurious NVNT n40 5230MHz Ant1 @ 5278.4MHz-26000MHz



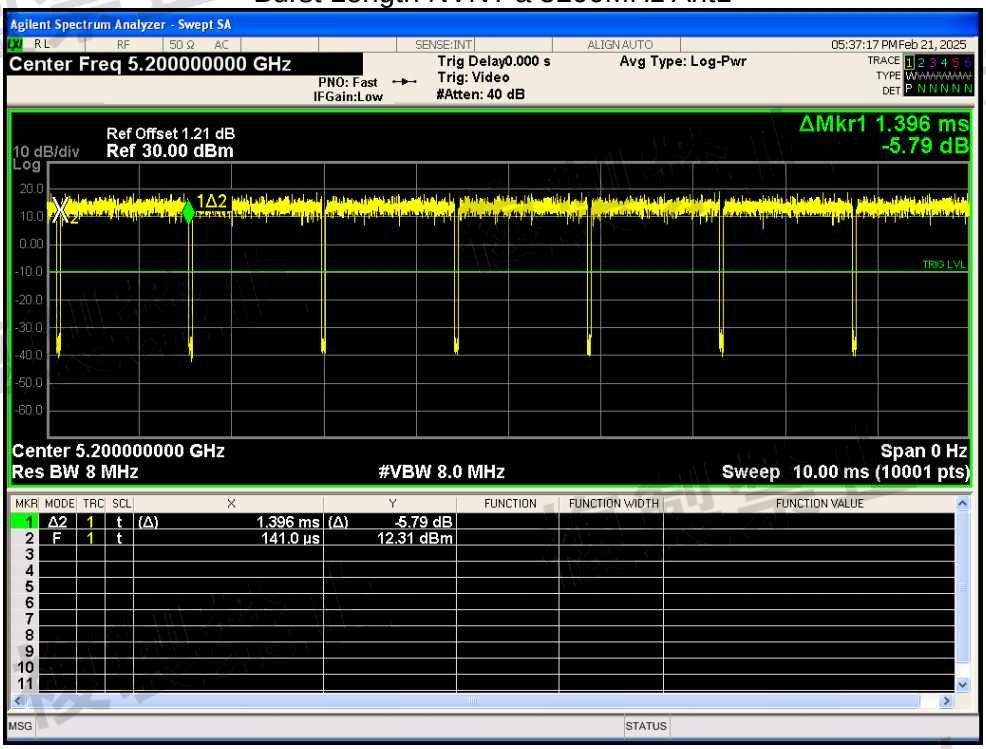
14.5 BURST LENGTH

Condition	Mode	Frequency (MHz)	Antenna	Burst Length (ms)	Limit (ms)	Verdict
NVNT	a	Ant1	5180	1.397	8	Pass
NVNT	a	Ant1	5200	1.396	8	Pass
NVNT	a	Ant1	5240	1.397	8	Pass
NVNT	ac20	Ant1	5180	1.317	8	Pass
NVNT	ac20	Ant1	5200	1.317	8	Pass
NVNT	ac20	Ant1	5240	1.317	8	Pass
NVNT	ac40	Ant1	5190	0.657	8	Pass
NVNT	ac40	Ant1	5230	0.658	8	Pass
NVNT	ac80	Ant1	5210	0.326	8	Pass
NVNT	n20	Ant1	5180	1.308	8	Pass
NVNT	n20	Ant1	5200	1.309	8	Pass
NVNT	n20	Ant1	5240	1.309	8	Pass
NVNT	n40	Ant1	5190	0.649	8	Pass
NVNT	n40	Ant1	5230	0.649	8	Pass

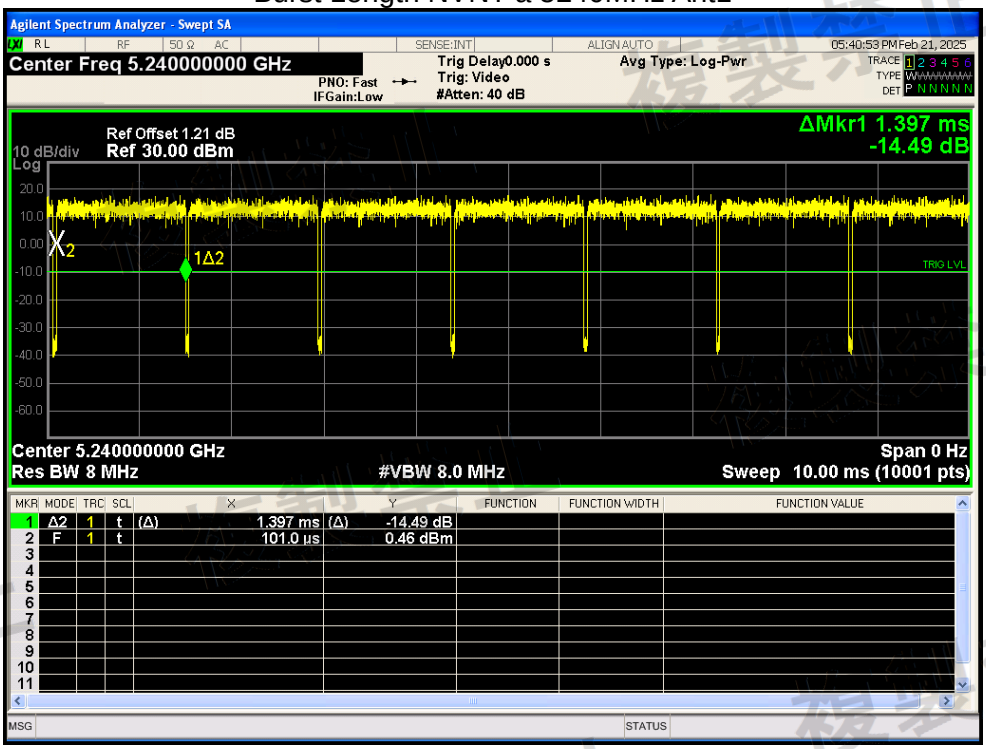
Burst Length NVNT a 5180MHz Ant1



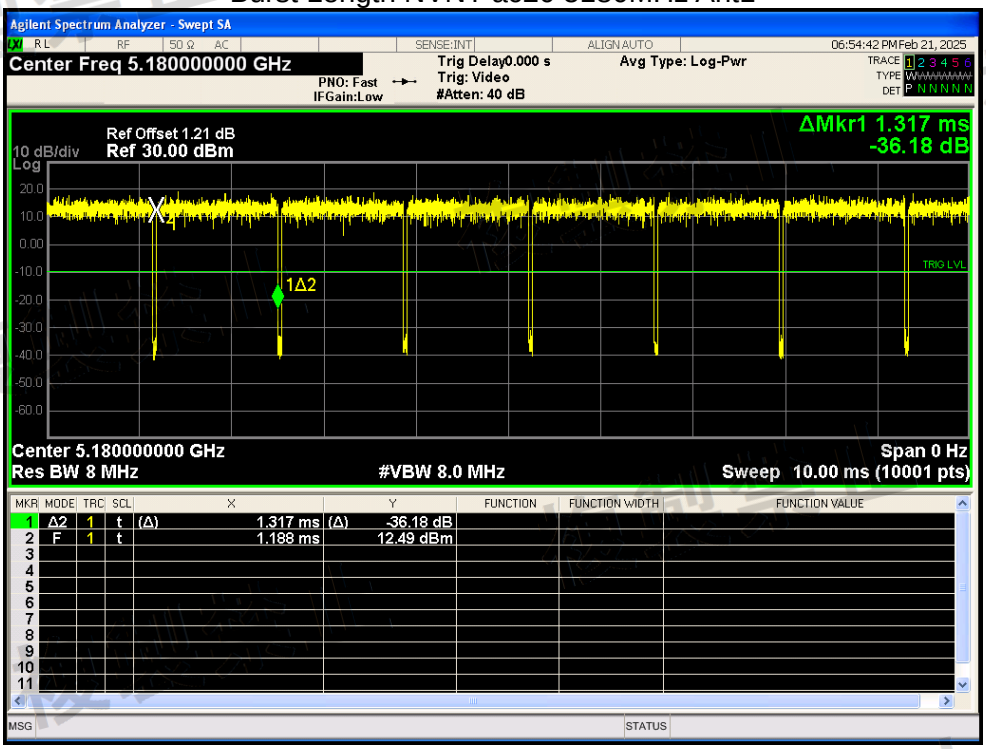
Burst Length NVNT a 5200MHz Ant1



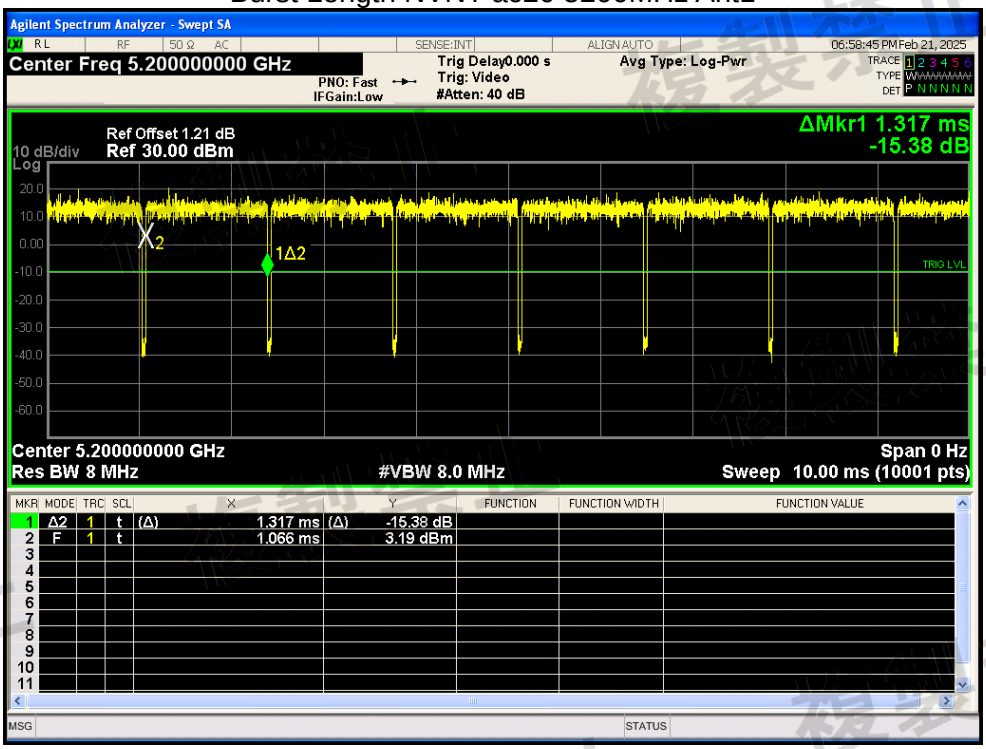
Burst Length NVNT a 5240MHz Ant1



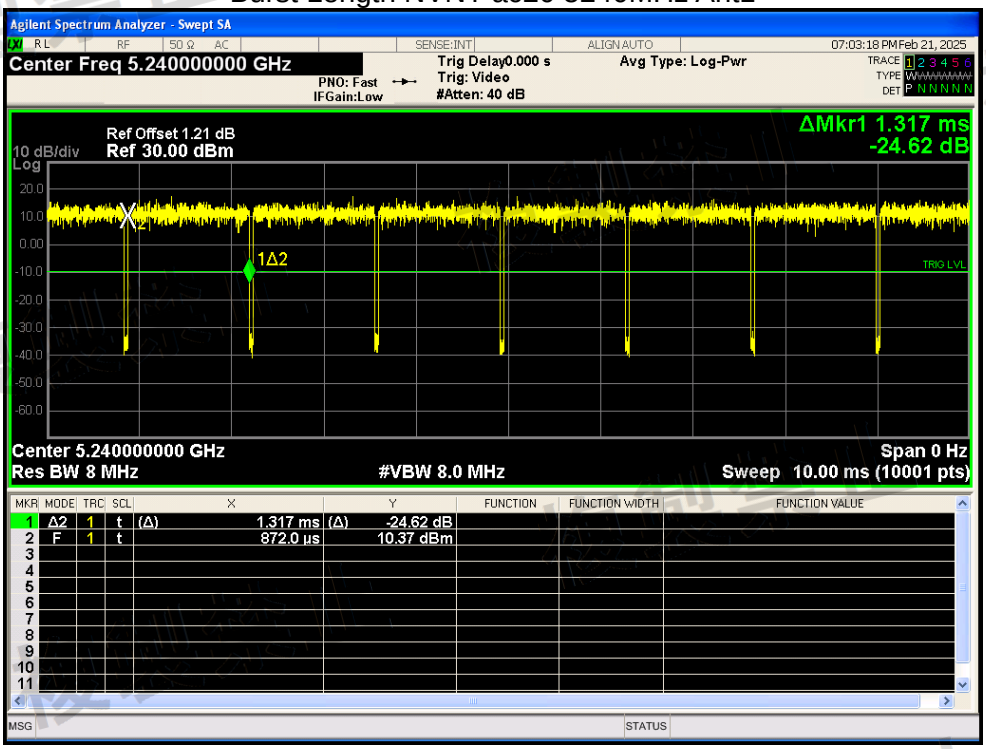
Burst Length NVNT ac20 5180MHz Ant1



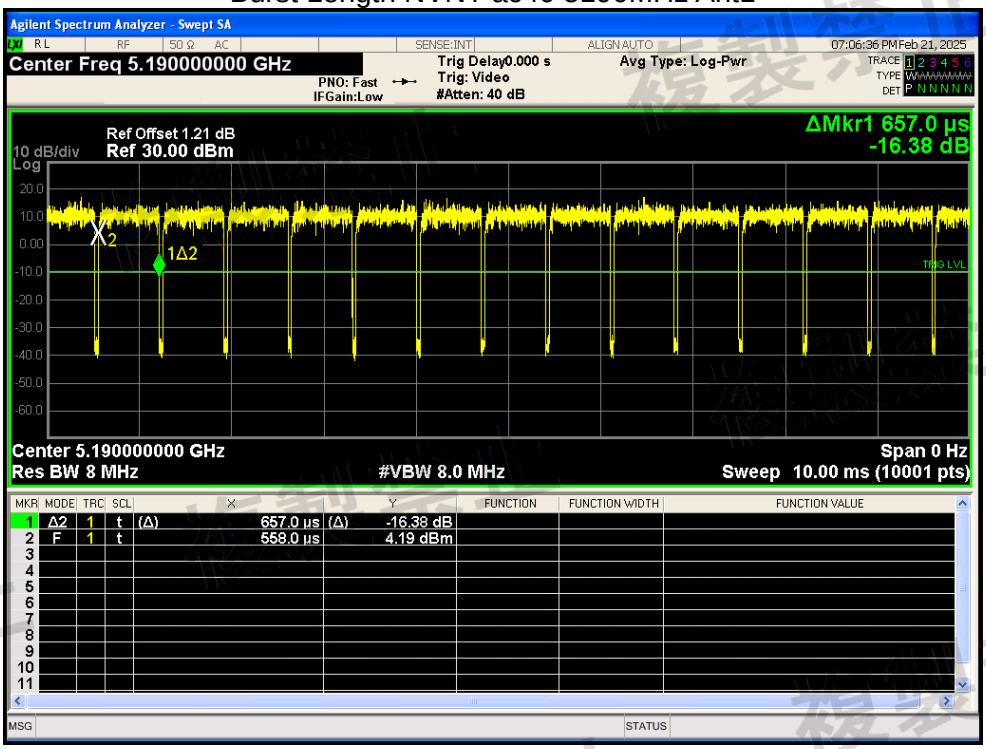
Burst Length NVNT ac20 5200MHz Ant1



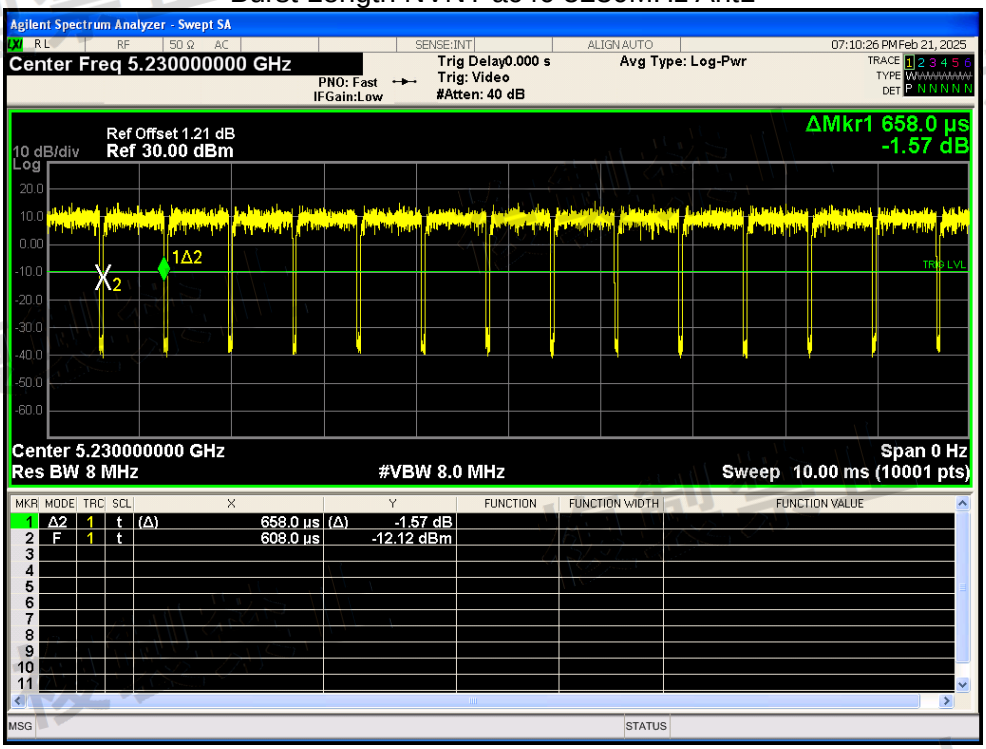
Burst Length NVNT ac20 5240MHz Ant1



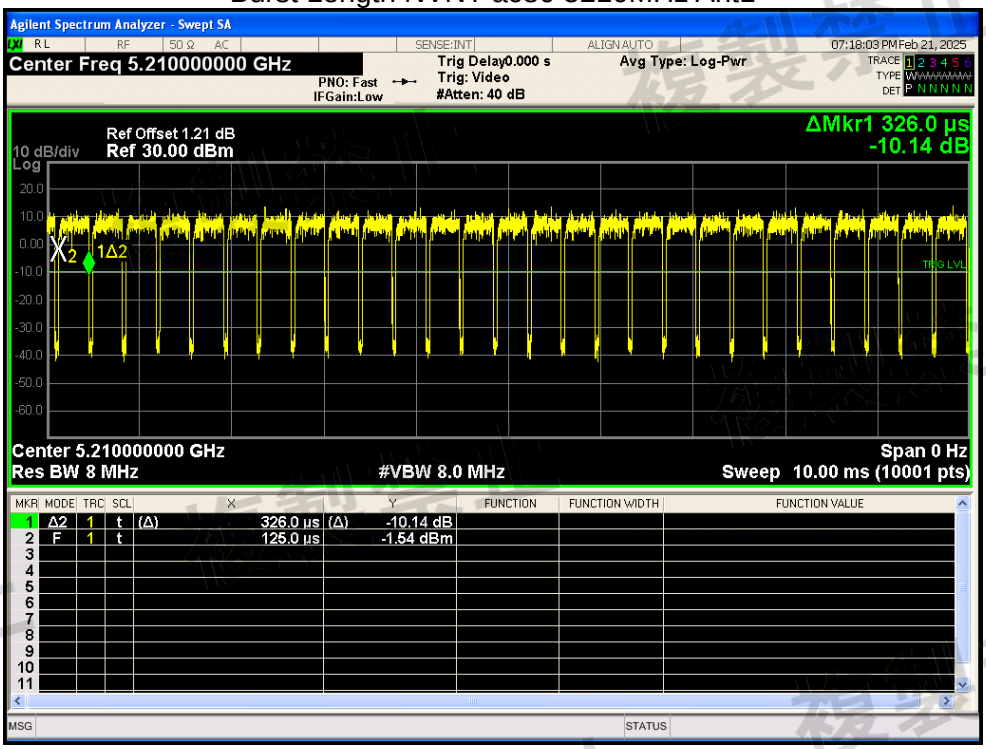
Burst Length NVNT ac40 5190MHz Ant1



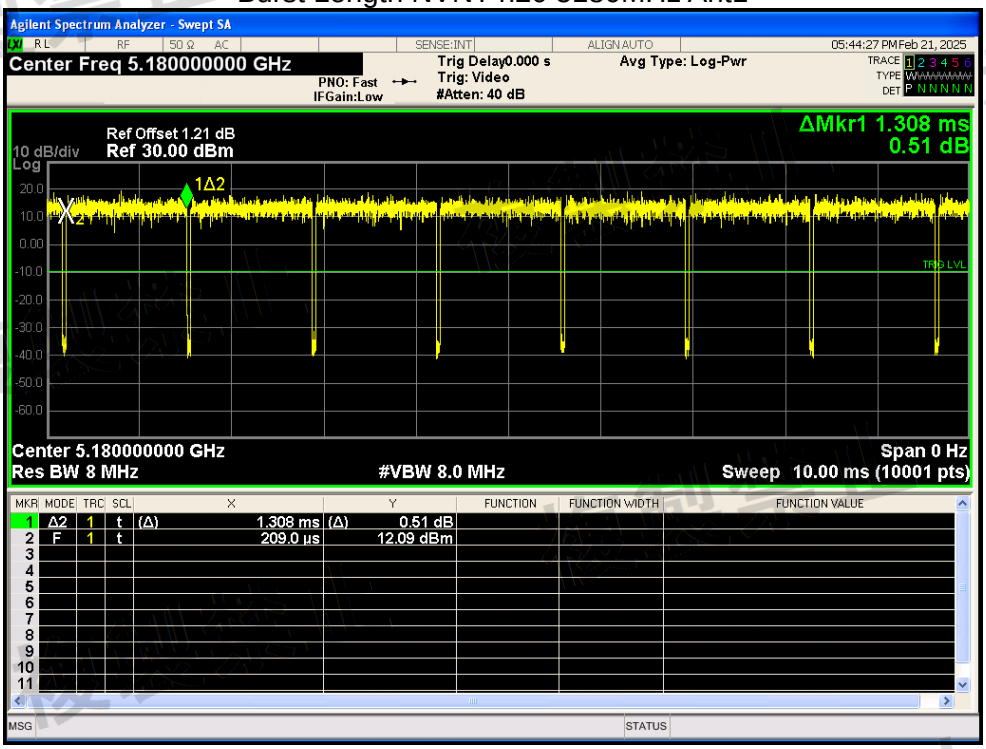
Burst Length NVNT ac40 5230MHz Ant1



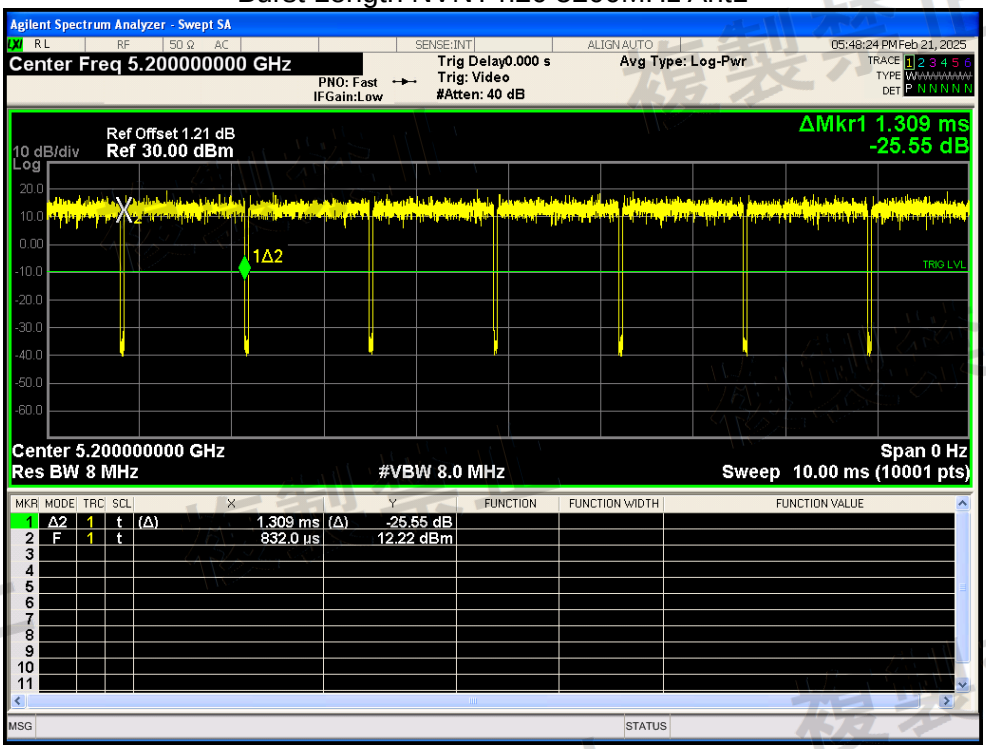
Burst Length NVNT ac80 5210MHz Ant1



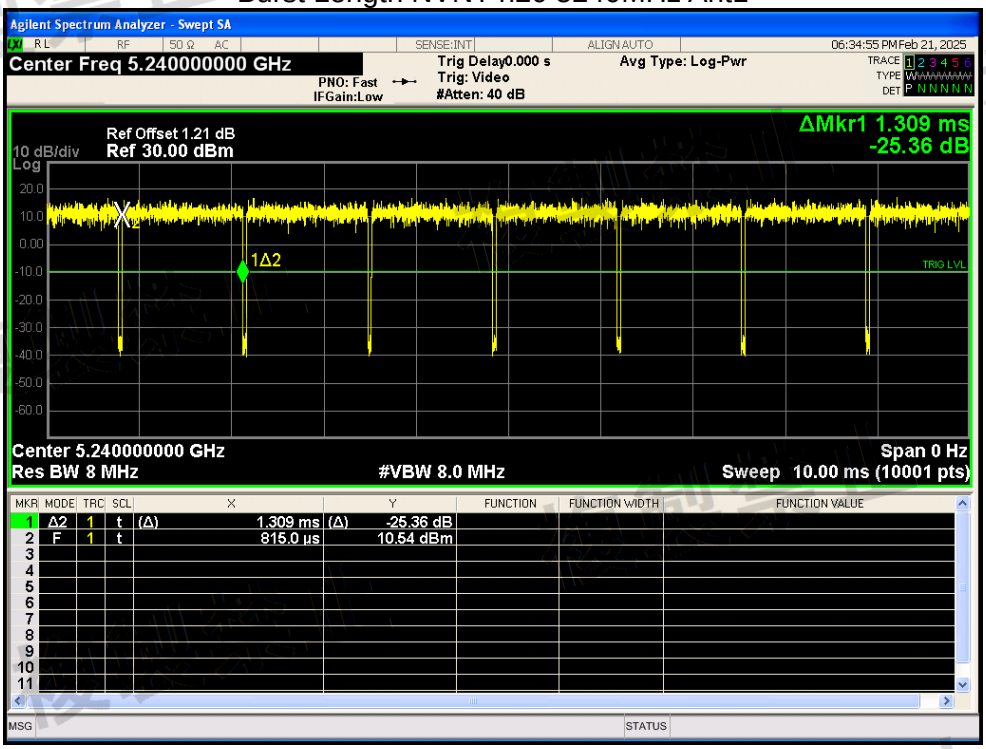
Burst Length NVNT n20 5180MHz Ant1



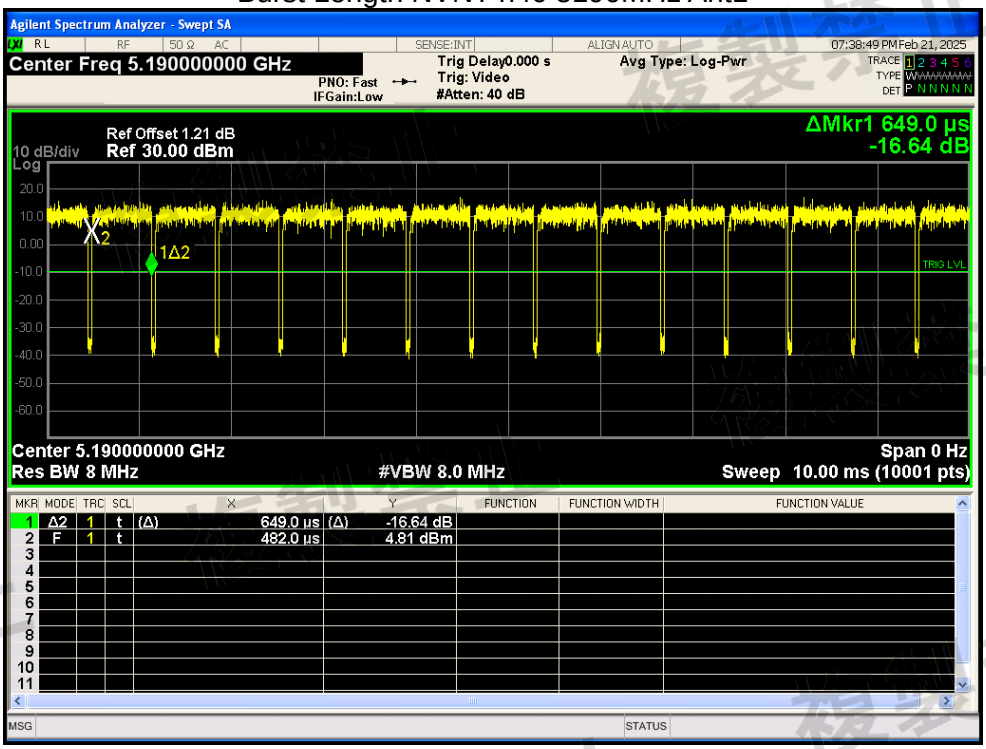
Burst Length NVNT n20 5200MHz Ant1



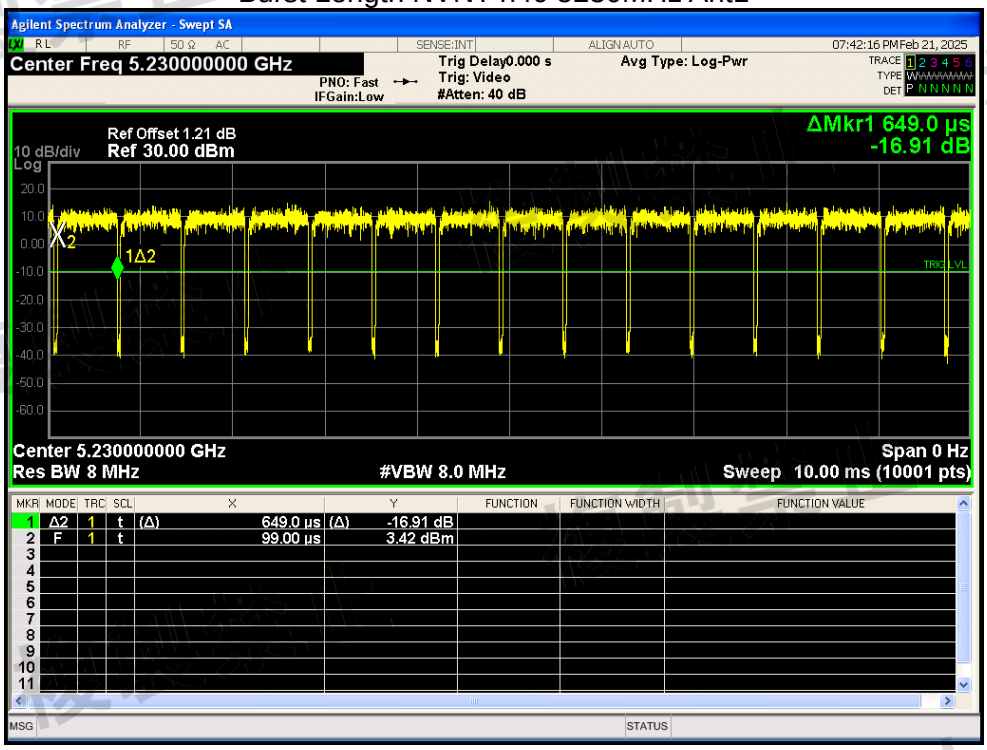
Burst Length NVNT n20 5240MHz Ant1



Burst Length NVNT n40 5190MHz Ant1



Burst Length NVNT n40 5230MHz Ant1

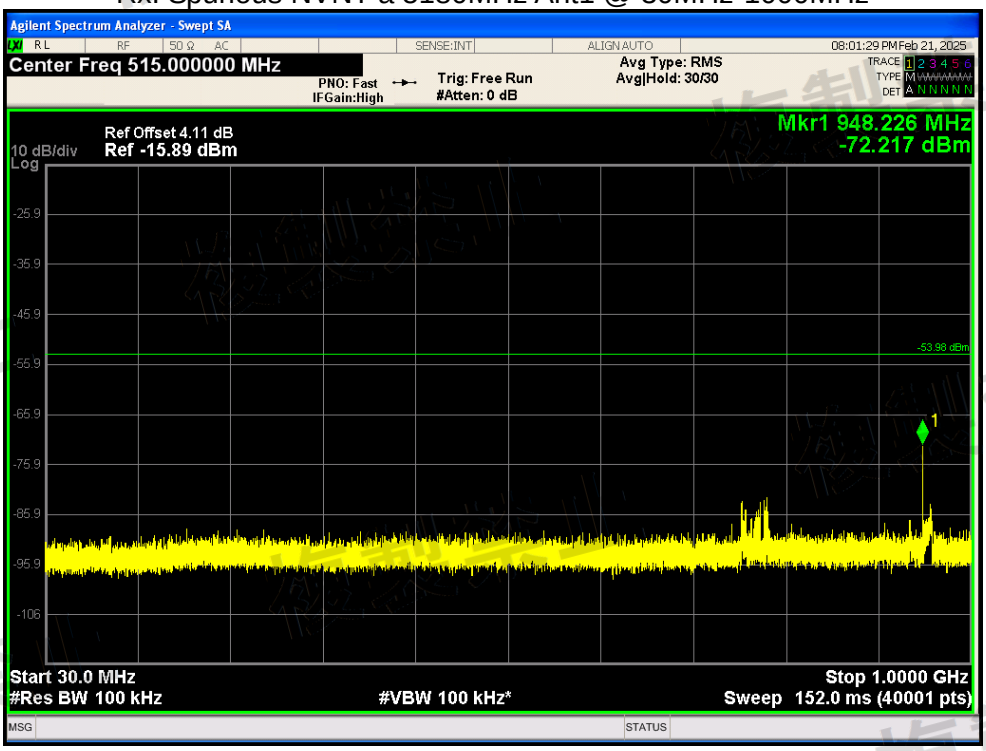


14.6 RX SPURIOUS EMISSION

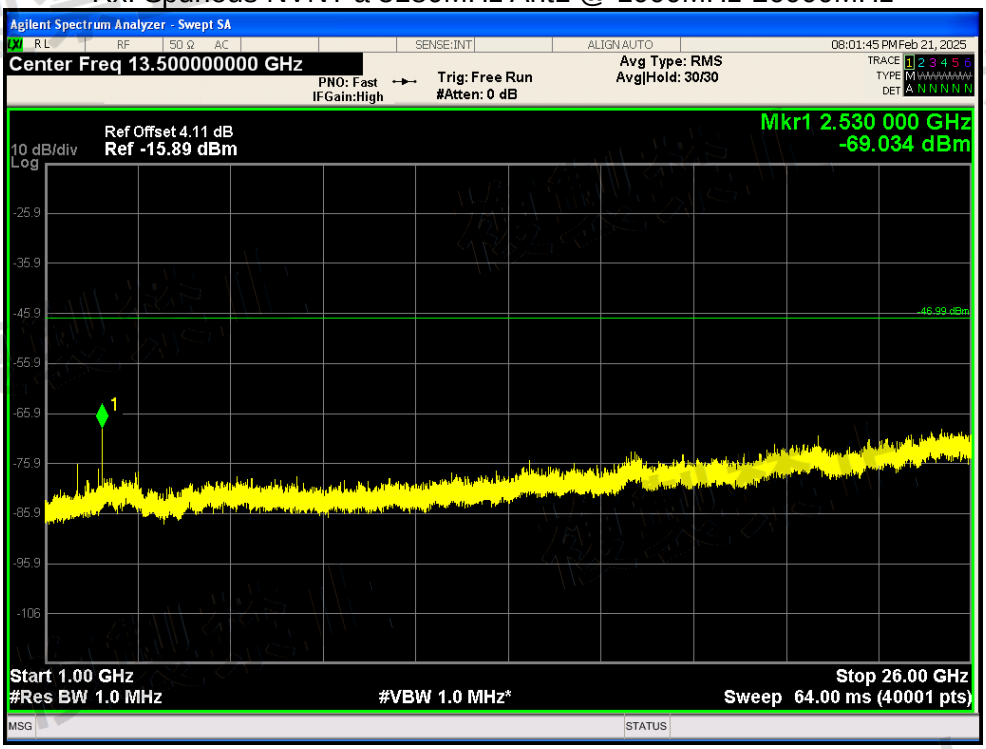
Condition	Mode	Frequency (MHz)	Antenna	Range (MHz)	Emission Frequency (MHz)	Max Value (dBm)	Max Value (nW)	Limit (nW)	Verdict
NVNT	a	5180	Ant1	30-1000	948.23	-72.22	0.06	4	Pass
NVNT	a	5180	Ant1	1000-26000	2530	-69.03	0.125	20	Pass
NVNT	a	5200	Ant1	30-1000	948.2	-71.85	0.0653	4	Pass
NVNT	a	5200	Ant1	1000-26000	25683.13	-68.5	0.1413	20	Pass
NVNT	a	5240	Ant1	30-1000	948.23	-71.8	0.0661	4	Pass
NVNT	a	5240	Ant1	1000-26000	25473.13	-68.87	0.1297	20	Pass
NVNT	ac20	5180	Ant1	30-1000	948.3	-75.52	0.0281	4	Pass
NVNT	ac20	5180	Ant1	1000-26000	25663.13	-68.28	0.1486	20	Pass
NVNT	ac20	5200	Ant1	30-1000	948.18	-72.65	0.0543	4	Pass
NVNT	ac20	5200	Ant1	1000-26000	25756.25	-68.16	0.1528	20	Pass
NVNT	ac20	5240	Ant1	30-1000	948.25	-73.3	0.0468	4	Pass
NVNT	ac20	5240	Ant1	1000-26000	25179.38	-68.31	0.1476	20	Pass
NVNT	ac40	5190	Ant1	30-1000	948.2	-73.93	0.0405	4	Pass
NVNT	ac40	5190	Ant1	1000-26000	25798.13	-68.9	0.1288	20	Pass
NVNT	ac40	5230	Ant1	30-1000	948.2	-70.84	0.0824	4	Pass
NVNT	ac40	5230	Ant1	1000-26000	25651.88	-68.7	0.1349	20	Pass
NVNT	ac80	5210	Ant1	30-1000	948.2	-74.75	0.0335	4	Pass
NVNT	ac80	5210	Ant1	1000-26000	25705.63	-68.84	0.1306	20	Pass
NVNT	n20	5180	Ant1	30-1000	948.15	-75.84	0.0261	4	Pass
NVNT	n20	5180	Ant1	1000-26000	25788.13	-67.56	0.1754	20	Pass
NVNT	n20	5200	Ant1	30-1000	948.2	-74.52	0.0353	4	Pass
NVNT	n20	5200	Ant1	1000-26000	24790	-69.04	0.1247	20	Pass
NVNT	n20	5240	Ant1	30-1000	948.2	-72.95	0.0507	4	Pass
NVNT	n20	5240	Ant1	1000-26000	25747.5	-68.58	0.1387	20	Pass
NVNT	n40	5190	Ant1	30-1000	948.2	-72.97	0.0505	4	Pass
NVNT	n40	5190	Ant1	1000-26000	25594.38	-69.03	0.125	20	Pass
NVNT	n40	5230	Ant1	30-1000	948.23	-69.64	0.1086	4	Pass
NVNT	n40	5230	Ant1	1000-26000	2454.38	-66.09	0.246	20	Pass

Note: This test has increased antenna gain .

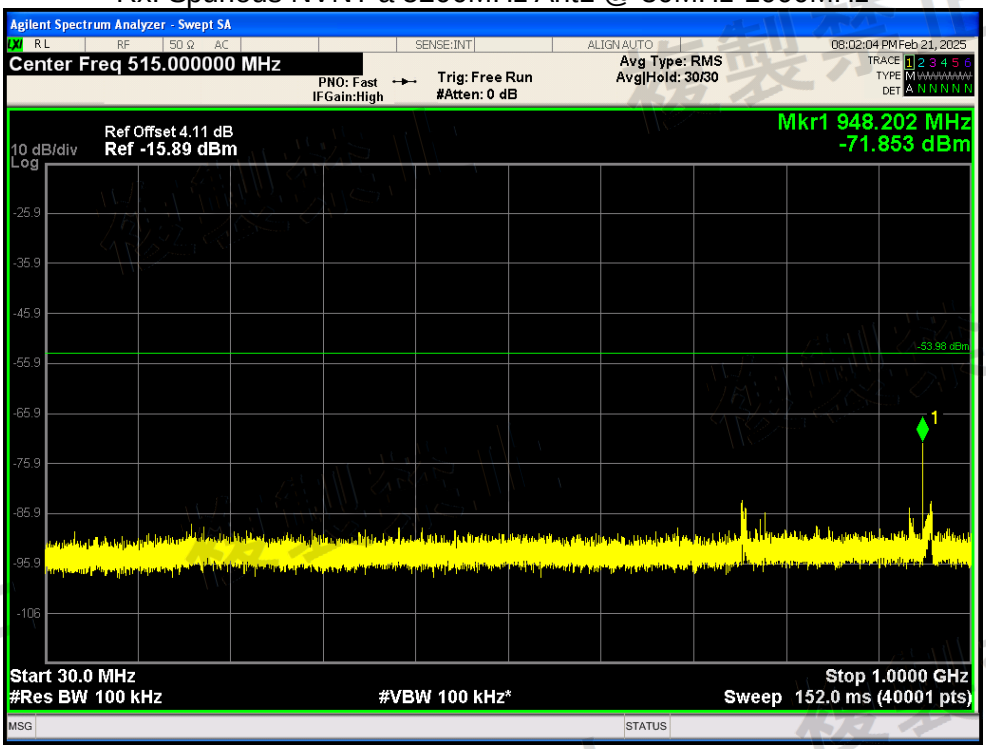
Rx. Spurious NVNT a 5180MHz Ant1 @ 30MHz-1000MHz



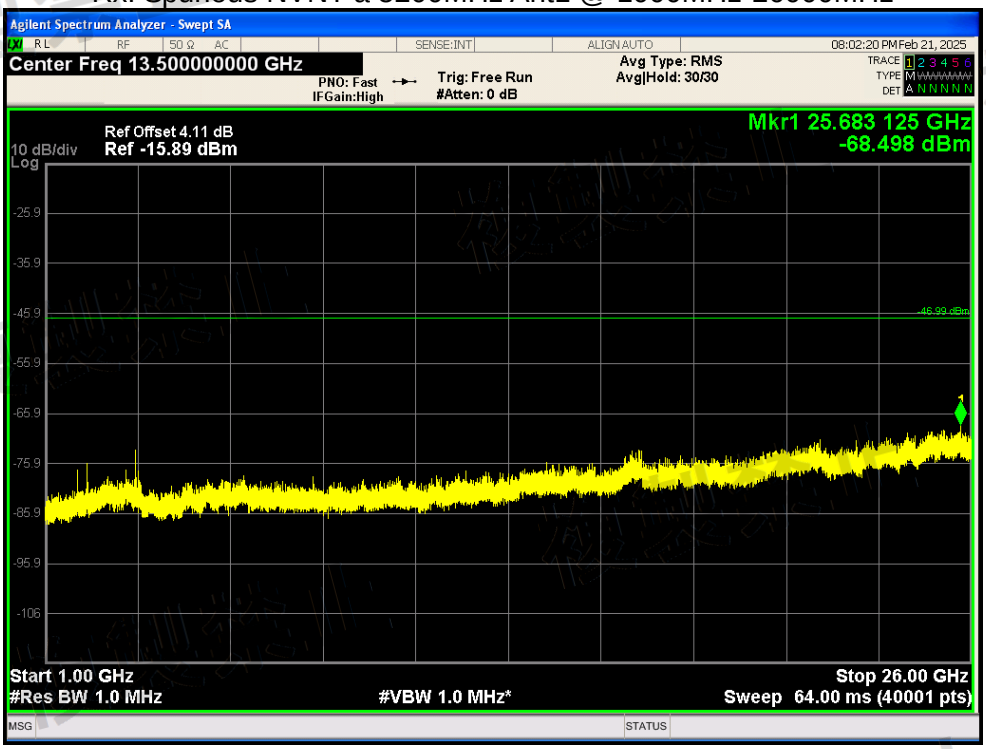
Rx. Spurious NVNT a 5180MHz Ant1 @ 1000MHz-26000MHz



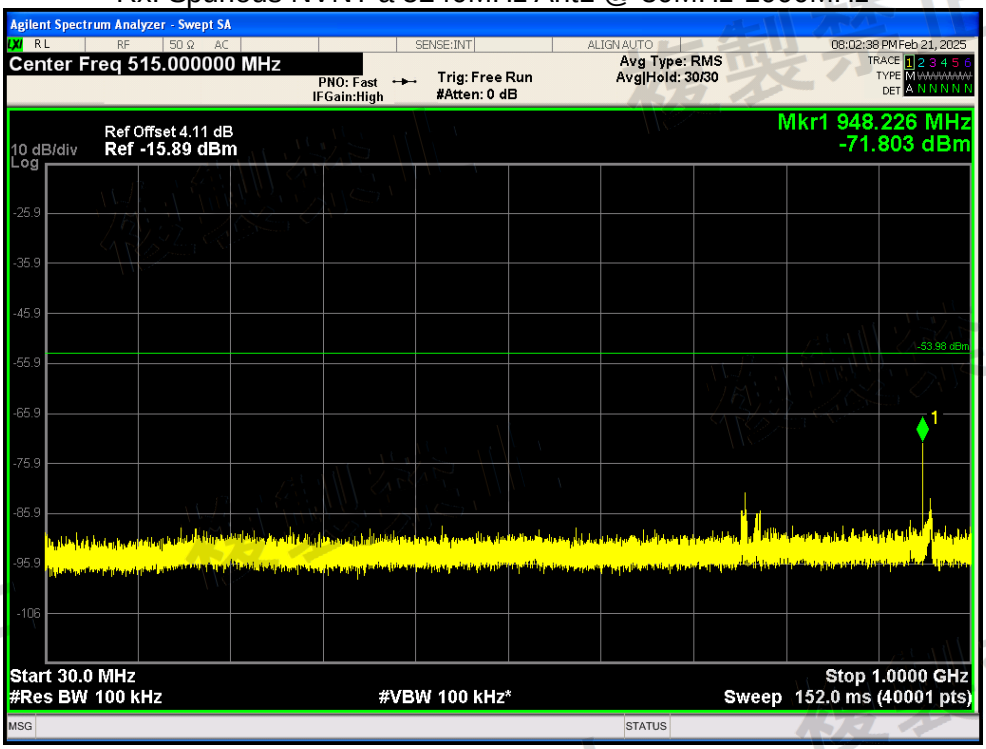
Rx. Spurious NVNT a 5200MHz Ant1 @ 30MHz-1000MHz



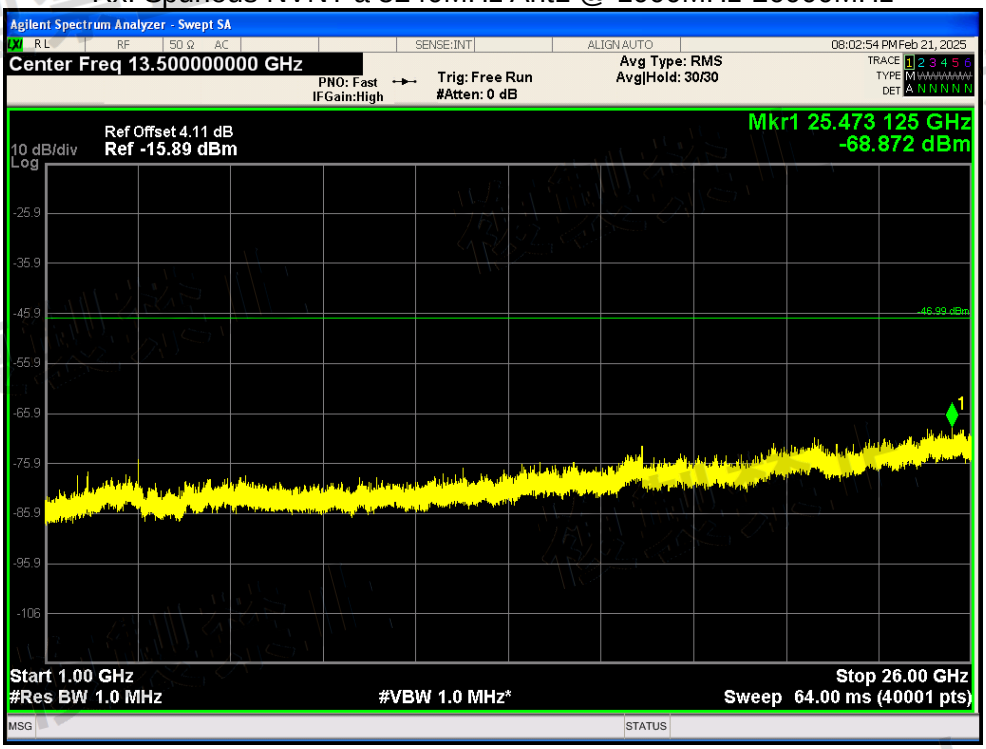
Rx. Spurious NVNT a 5200MHz Ant1 @ 1000MHz-26000MHz



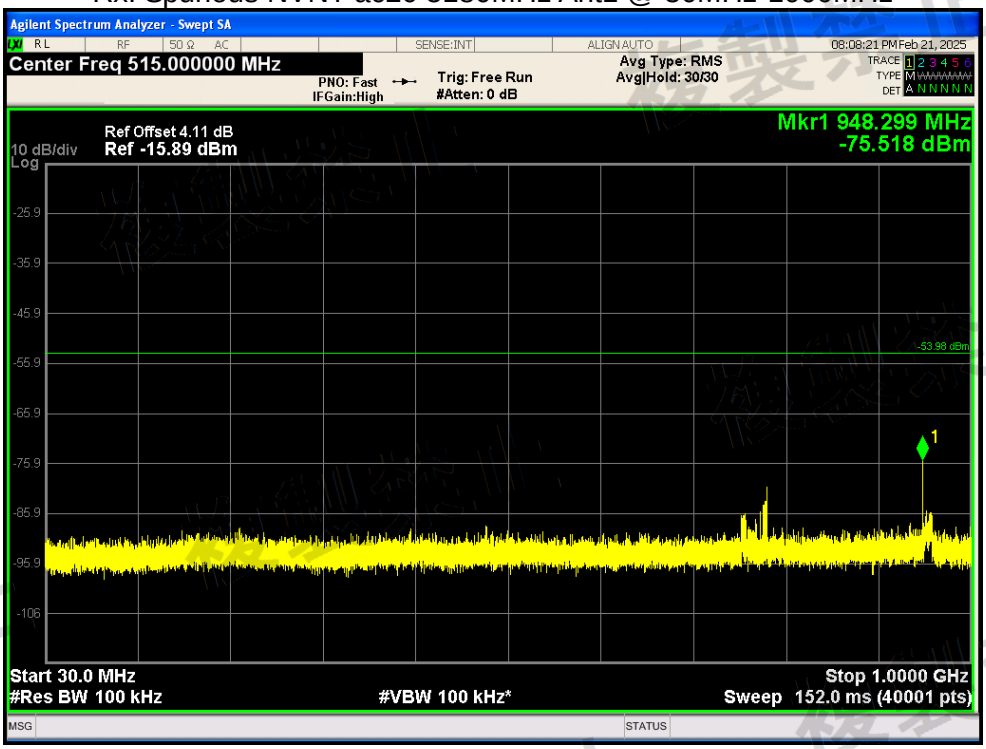
Rx. Spurious NVNT a 5240MHz Ant1 @ 30MHz-1000MHz



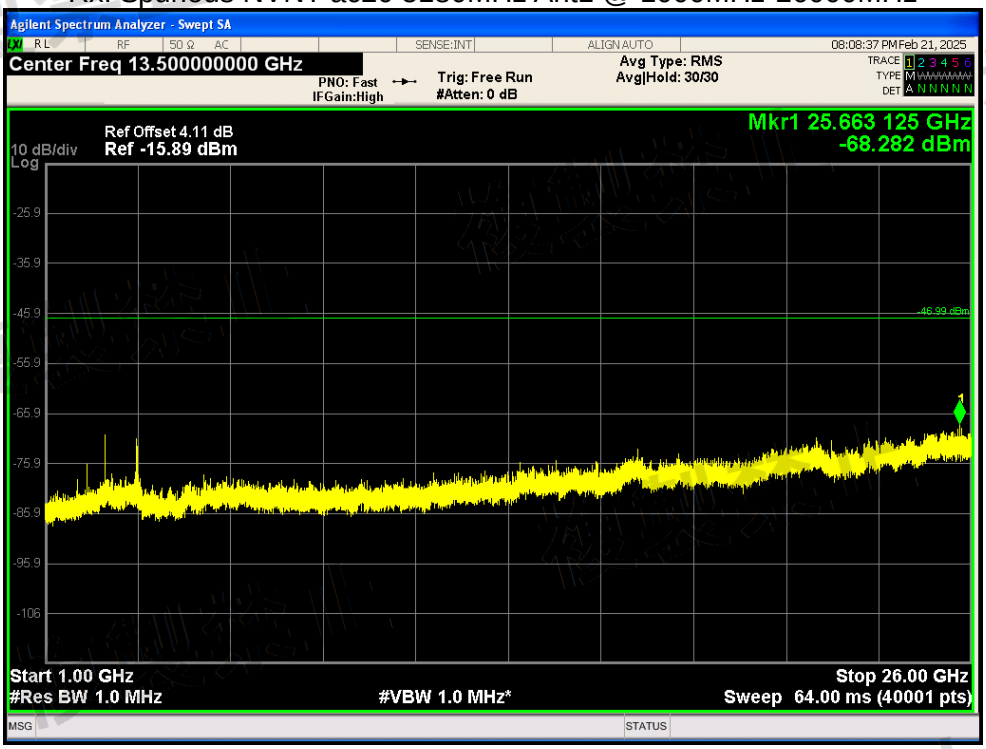
Rx. Spurious NVNT a 5240MHz Ant1 @ 1000MHz-26000MHz



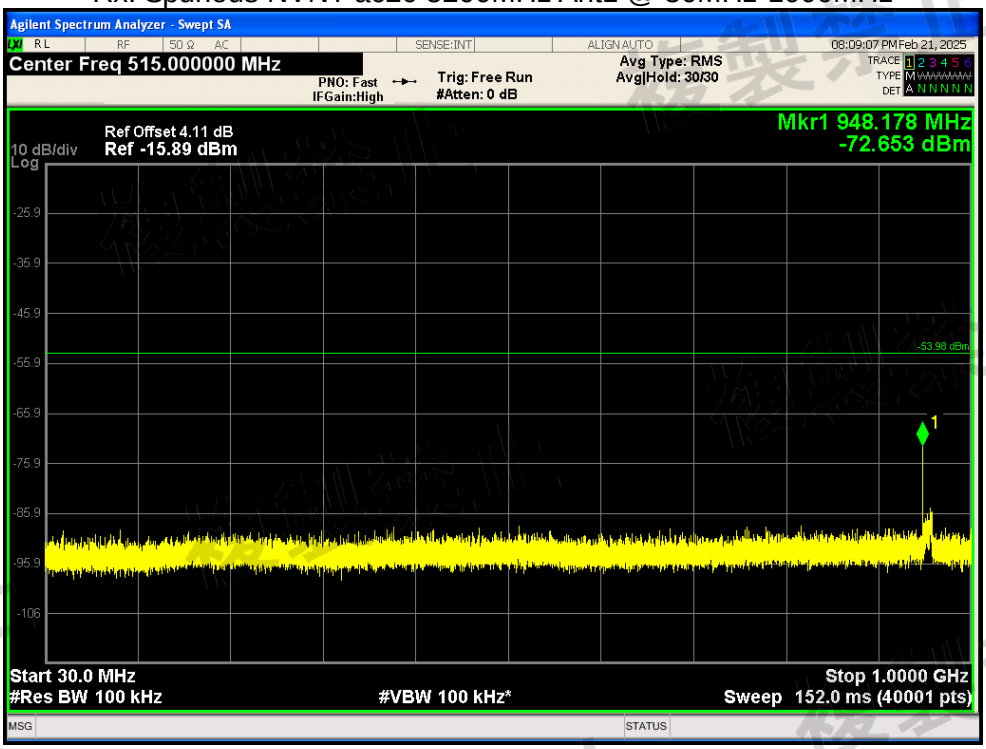
Rx. Spurious NVNT ac20 5180MHz Ant1 @ 30MHz-1000MHz



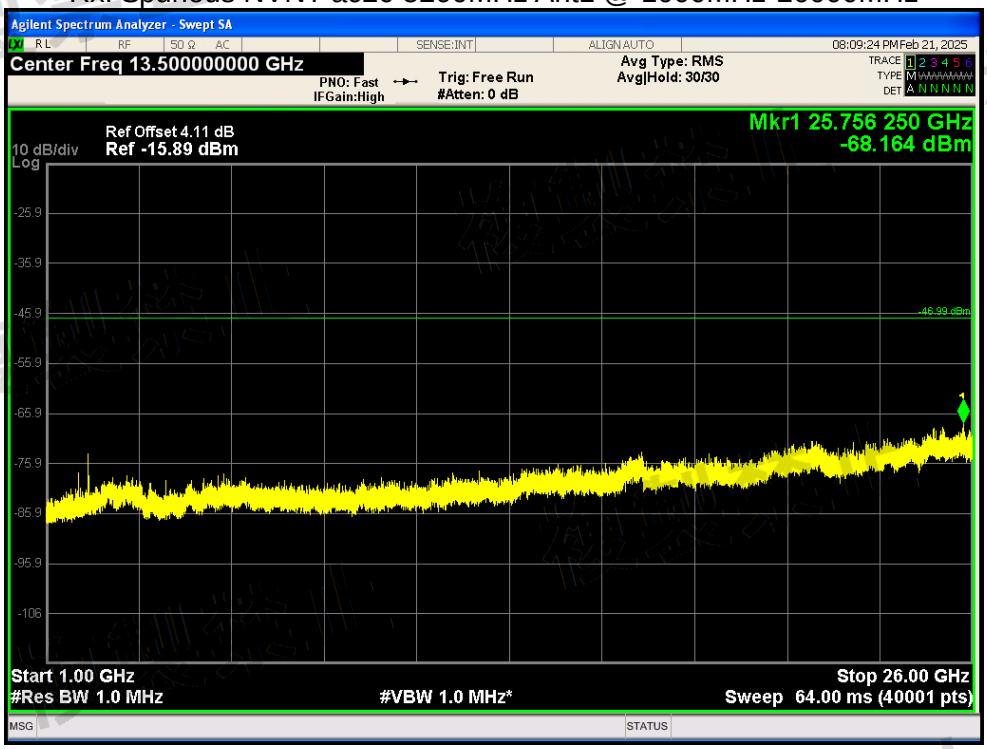
Rx. Spurious NVNT ac20 5180MHz Ant1 @ 1000MHz-26000MHz



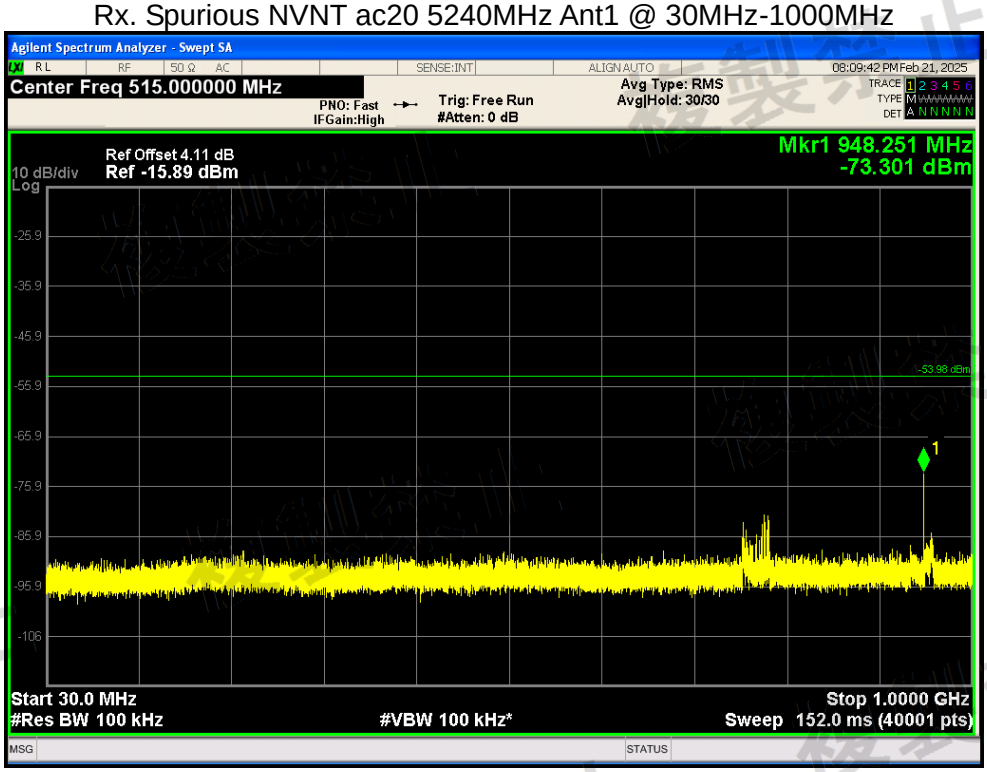
Rx. Spurious NVNT ac20 5200MHz Ant1 @ 30MHz-1000MHz



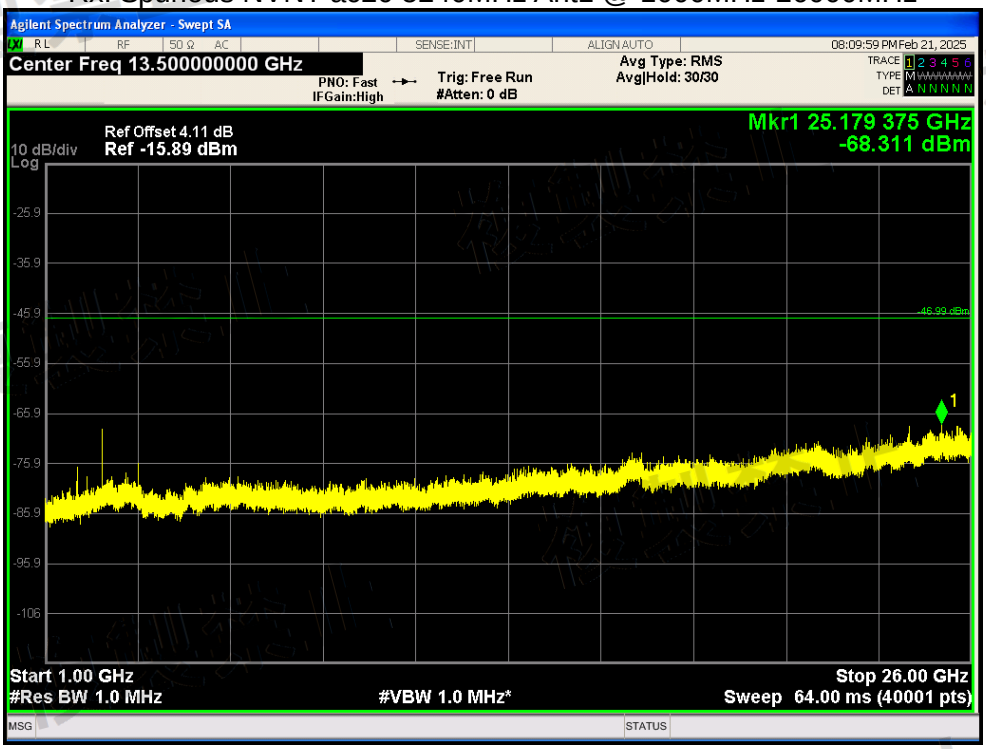
Rx. Spurious NVNT ac20 5200MHz Ant1 @ 1000MHz-26000MHz



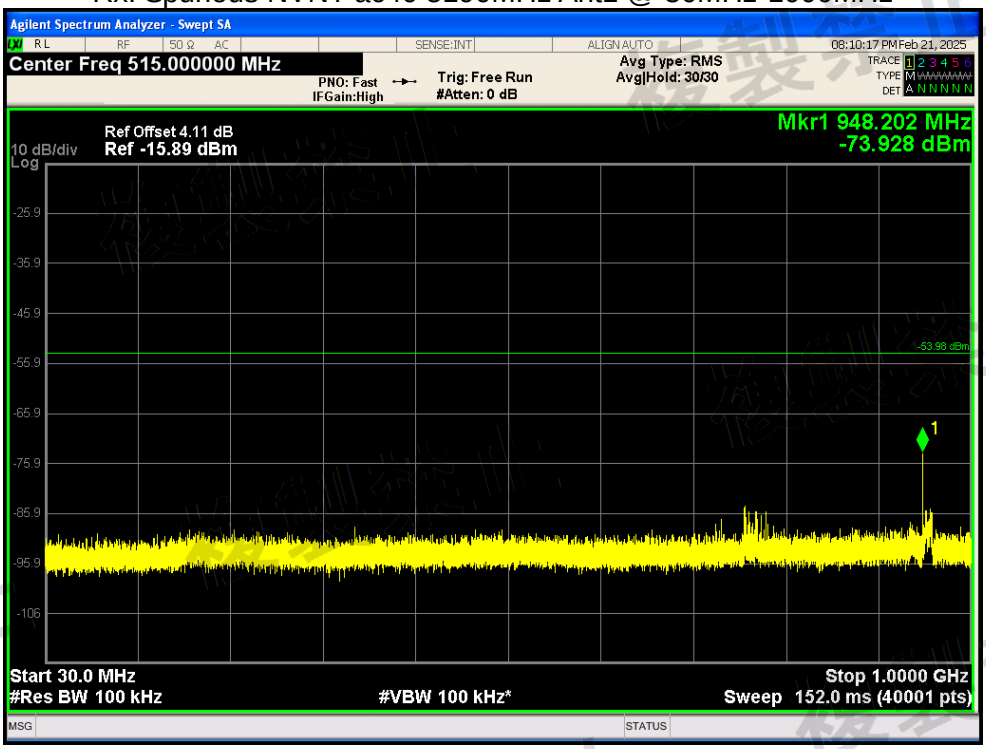
Rx. Spurious NVNT ac20 5240MHz Ant1 @ 30MHz-1000MHz



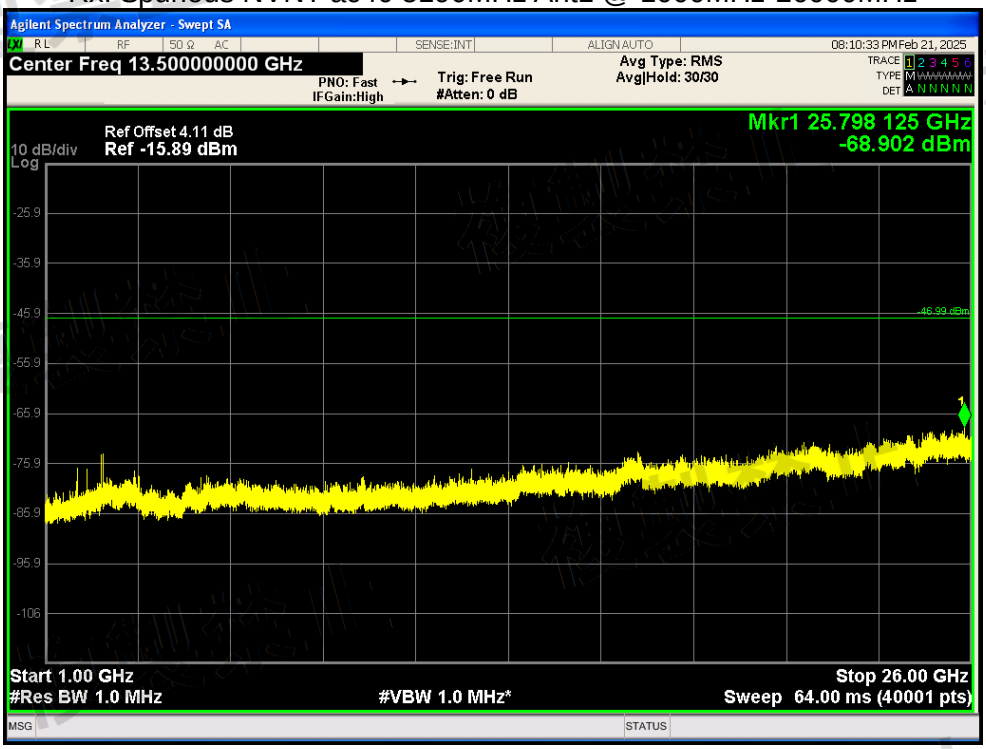
Rx. Spurious NVNT ac20 5240MHz Ant1 @ 1000MHz-26000MHz



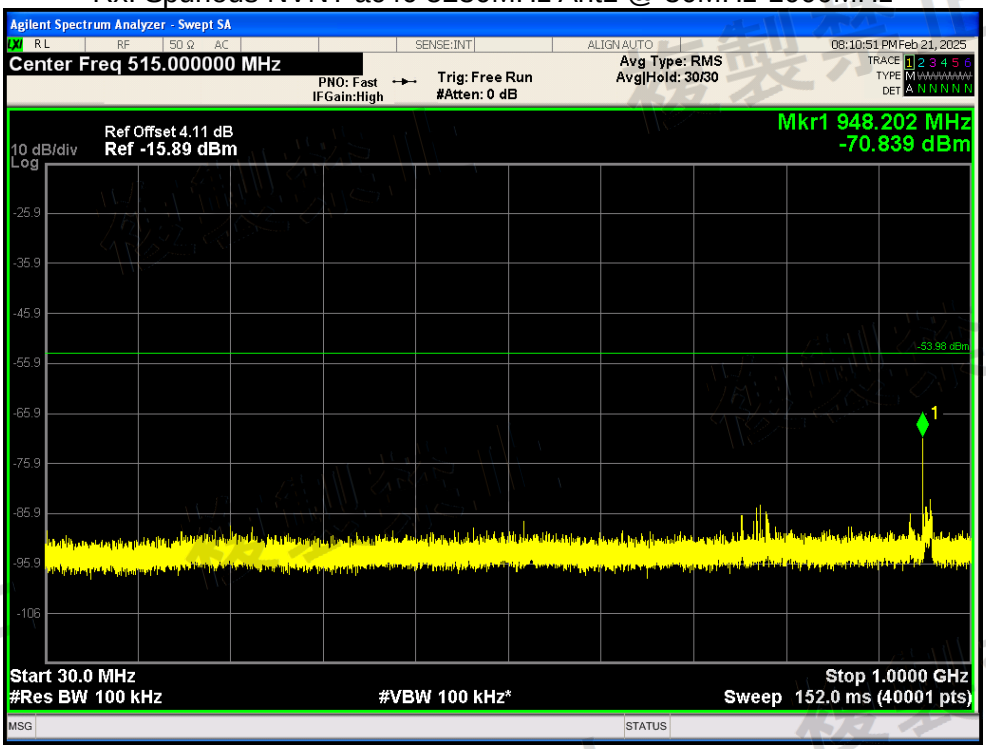
Rx. Spurious NVNT ac40 5190MHz Ant1 @ 30MHz-1000MHz



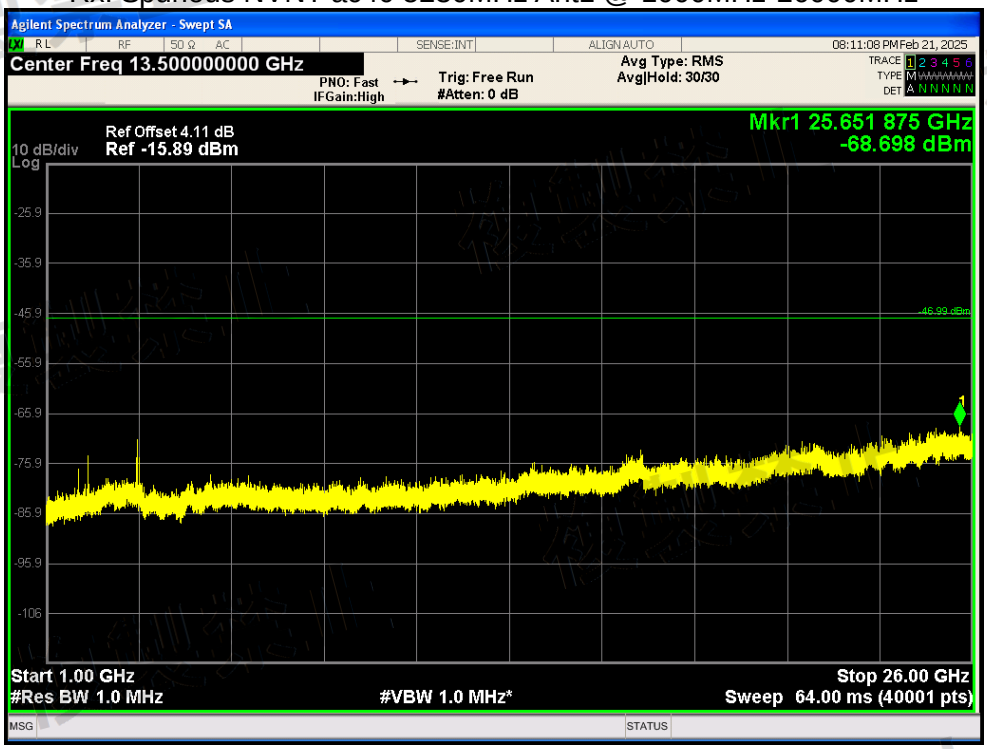
Rx. Spurious NVNT ac40 5190MHz Ant1 @ 1000MHz-26000MHz



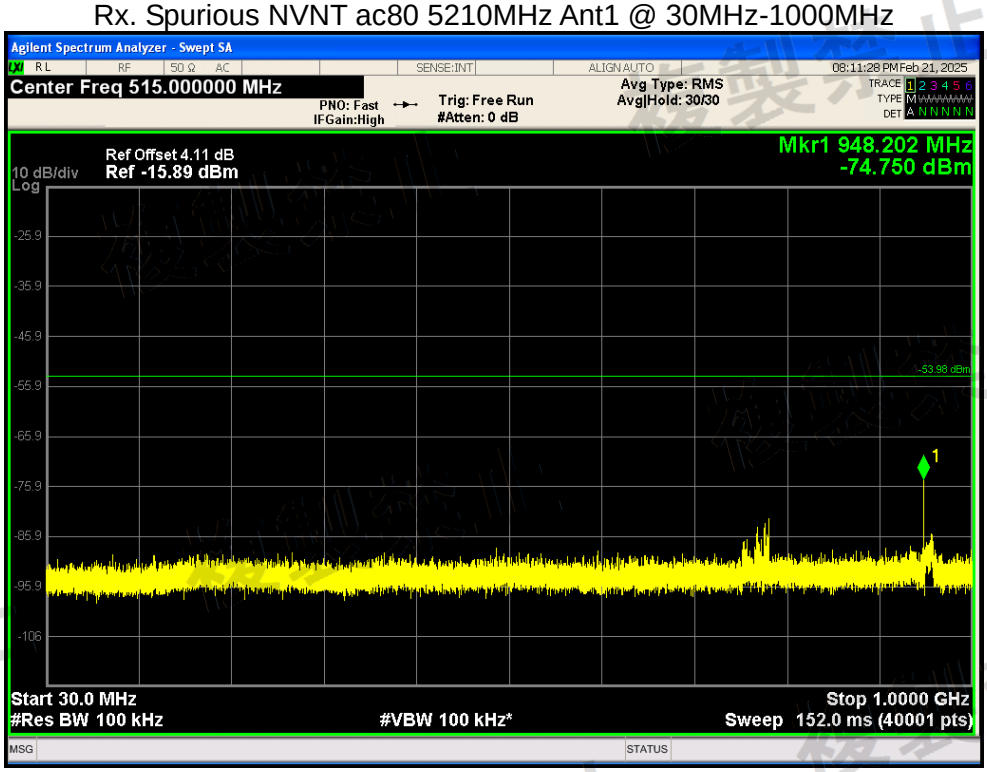
Rx. Spurious NVNT ac40 5230MHz Ant1 @ 30MHz-1000MHz



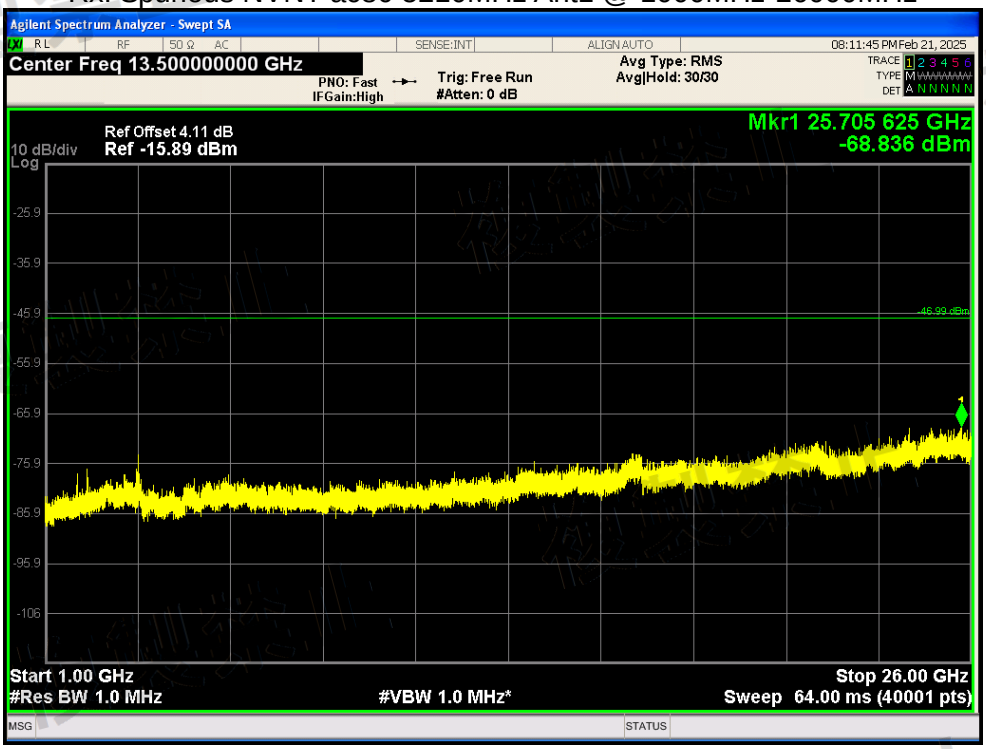
Rx. Spurious NVNT ac40 5230MHz Ant1 @ 1000MHz-26000MHz



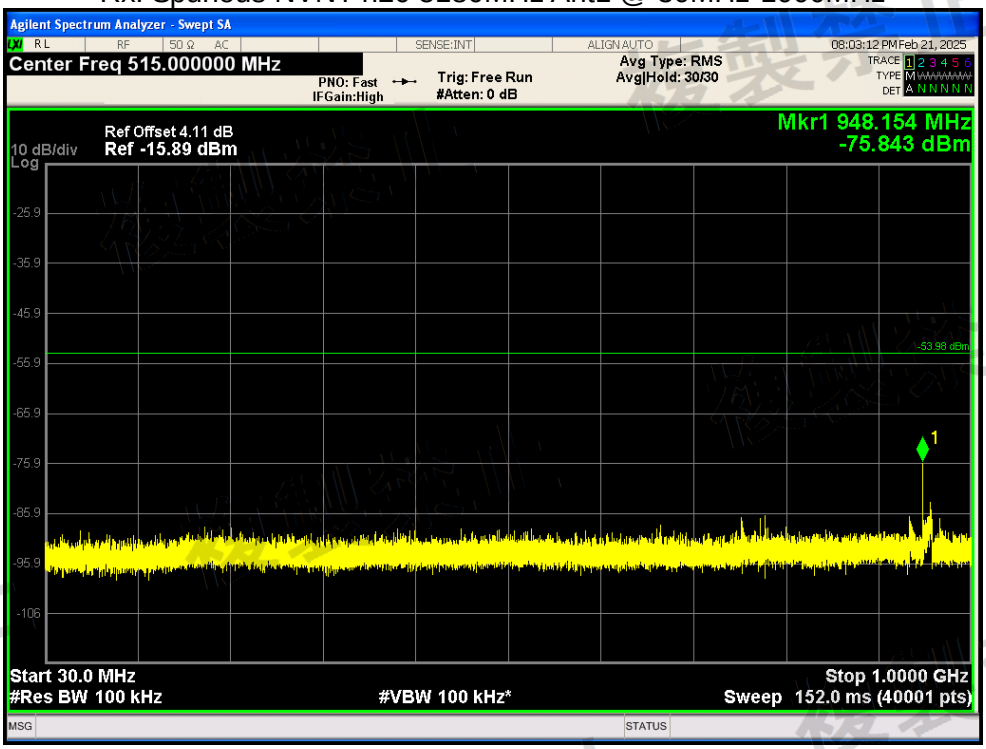
Rx. Spurious NVNT ac80 5210MHz Ant1 @ 30MHz-1000MHz



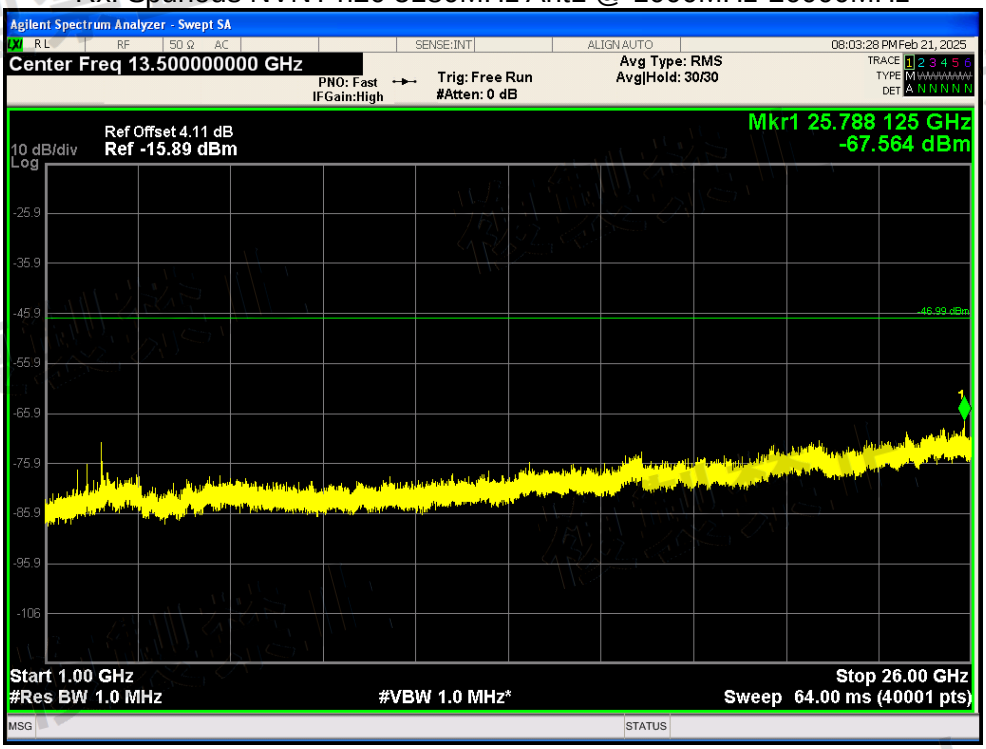
Rx. Spurious NVNT ac80 5210MHz Ant1 @ 1000MHz-26000MHz



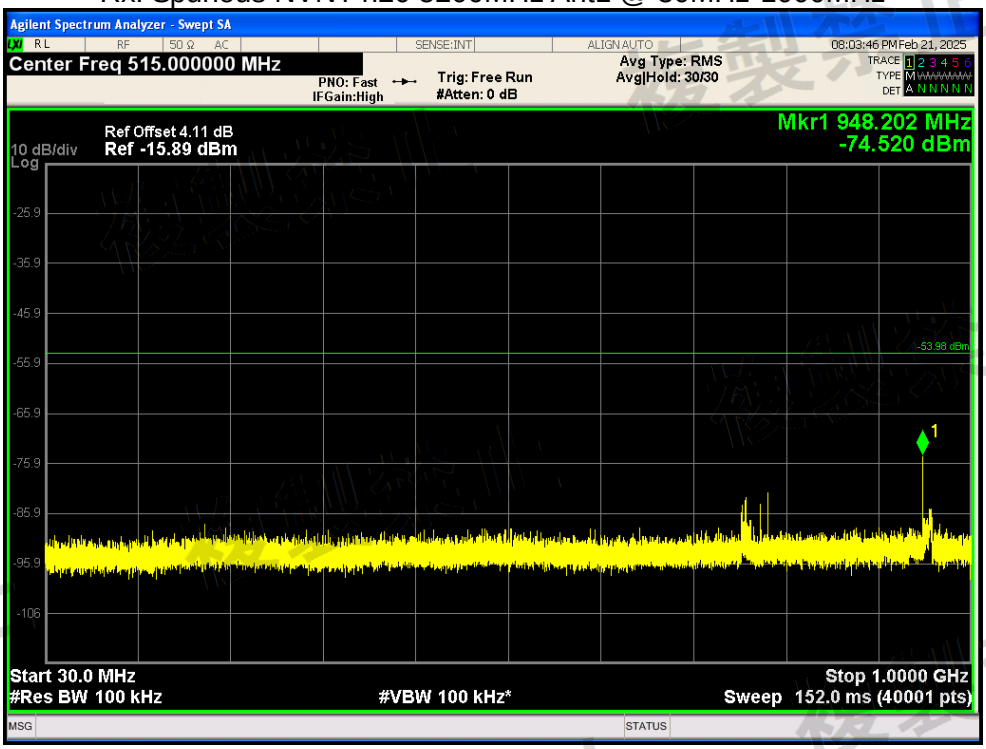
Rx. Spurious NVNT n20 5180MHz Ant1 @ 30MHz-1000MHz



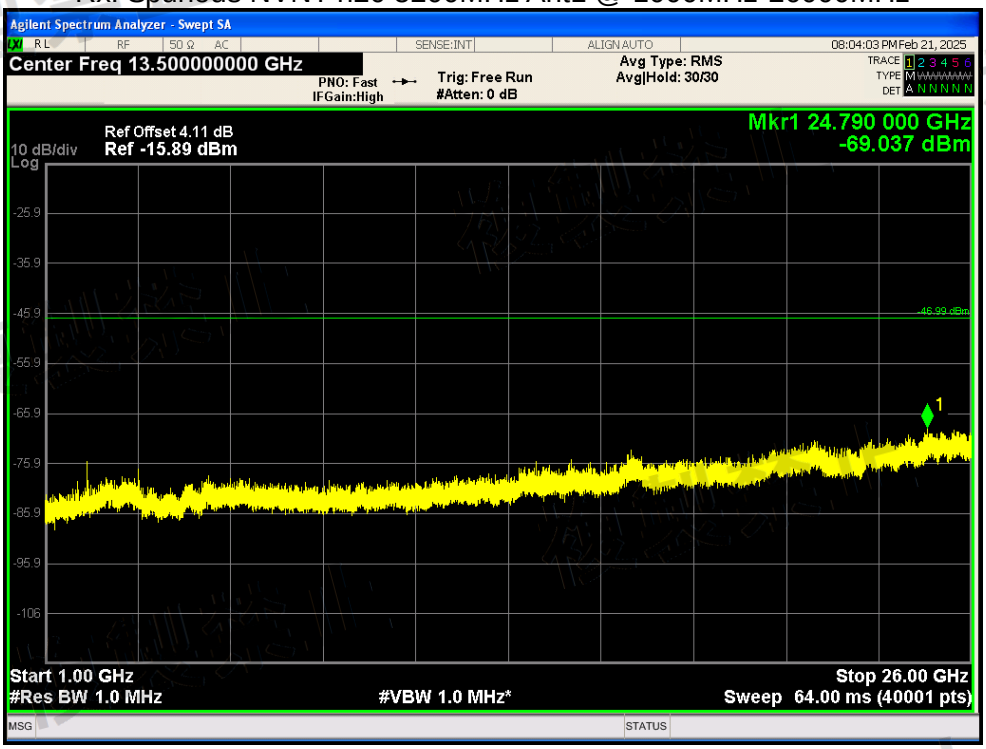
Rx. Spurious NVNT n20 5180MHz Ant1 @ 1000MHz-26000MHz



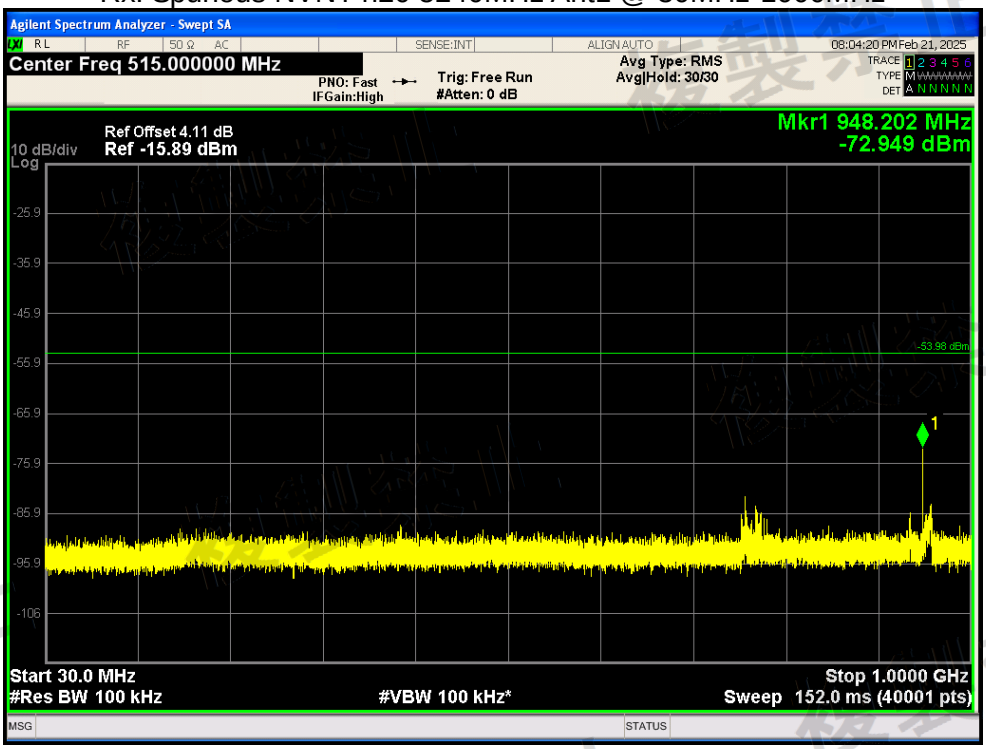
Rx. Spurious NVNT n20 5200MHz Ant1 @ 30MHz-1000MHz



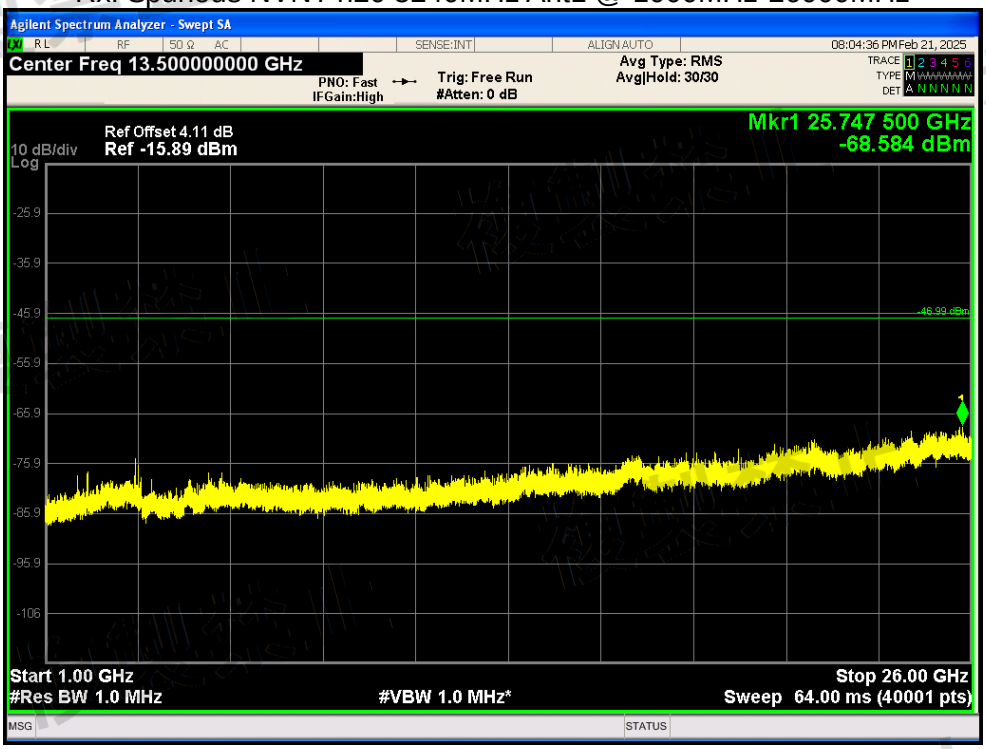
Rx. Spurious NVNT n20 5200MHz Ant1 @ 1000MHz-26000MHz



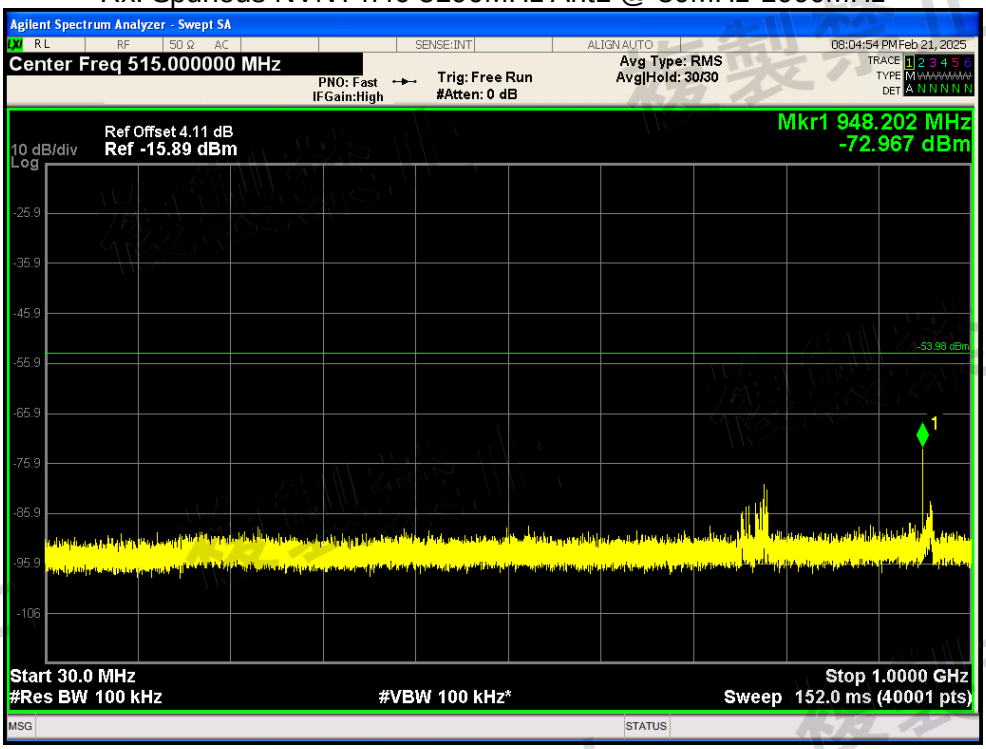
Rx. Spurious NVNT n20 5240MHz Ant1 @ 30MHz-1000MHz



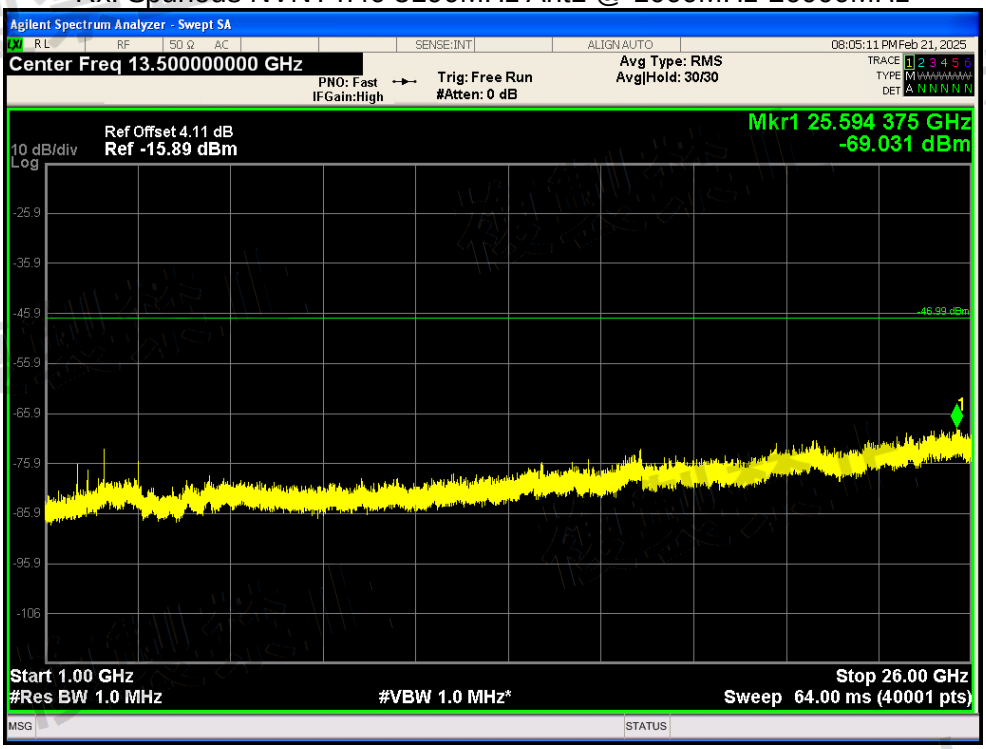
Rx. Spurious NVNT n20 5240MHz Ant1 @ 1000MHz-26000MHz



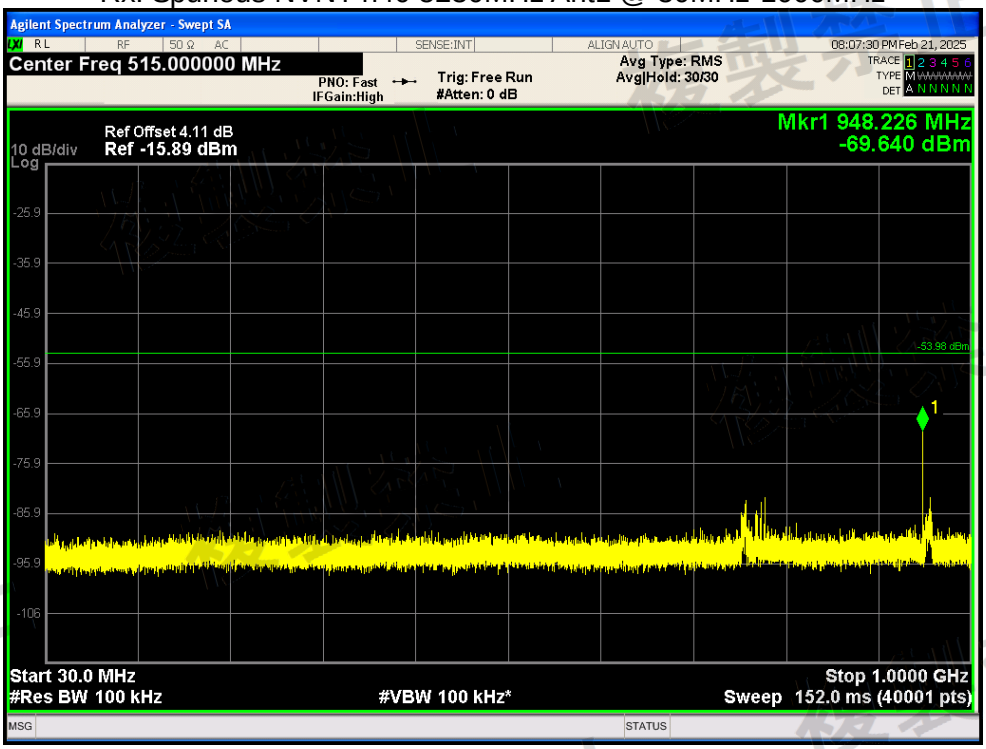
Rx. Spurious NVNT n40 5190MHz Ant1 @ 30MHz-1000MHz



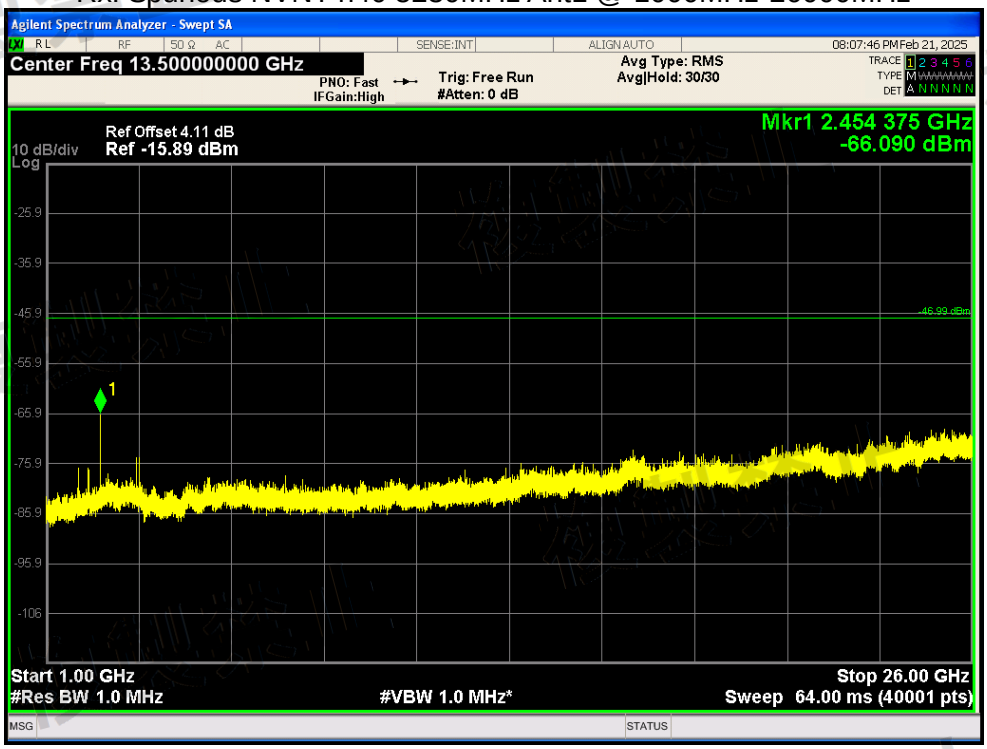
Rx. Spurious NVNT n40 5190MHz Ant1 @ 1000MHz-26000MHz



Rx. Spurious NVNT n40 5230MHz Ant1 @ 30MHz-1000MHz



Rx. Spurious NVNT n40 5230MHz Ant1 @ 1000MHz-26000MHz

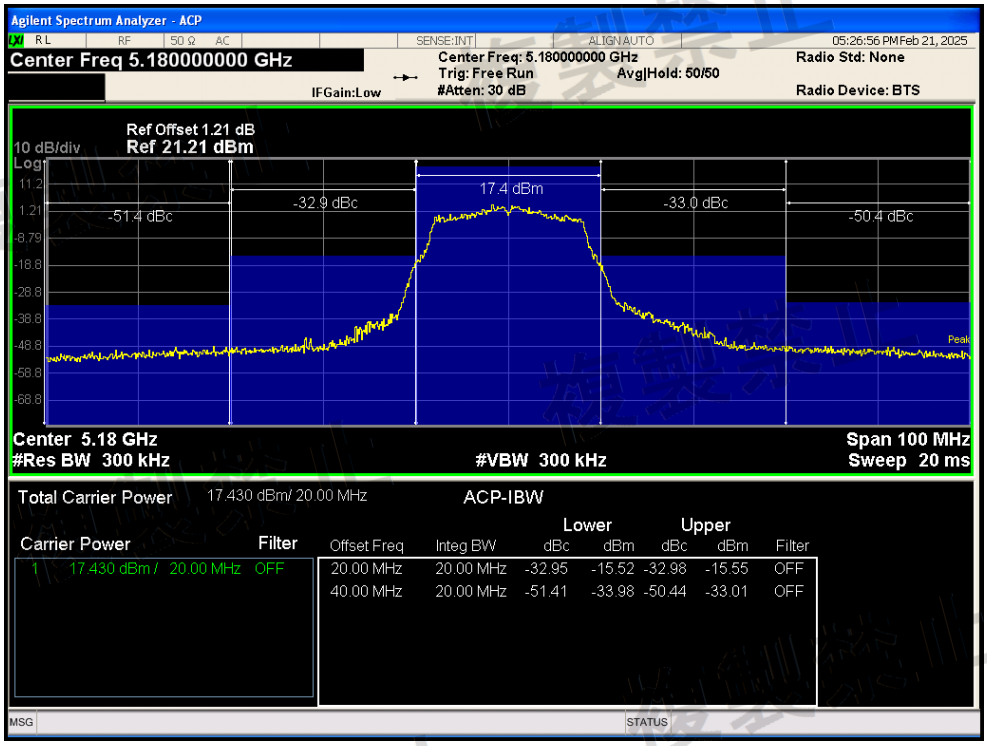


14.7 ADJACENT CHANNEL EMITTED POWER

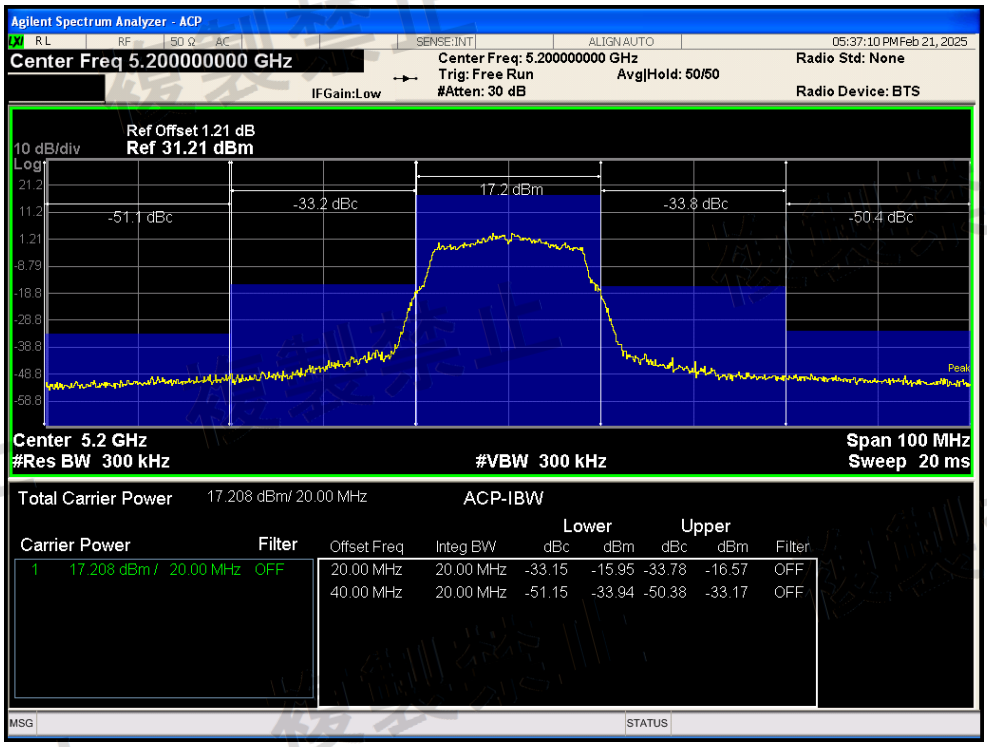
Condition	Mode	Frequency (MHz)	Antenna	Offset (MHz)	Value (dBc)	Limit (dBc)	Verdict
NVNT	a	5180	Ant1	-20	-32.95	-25	Pass
NVNT	a	5180	Ant1	-40	-51.41	-40	Pass
NVNT	a	5180	Ant1	20	-32.98	-25	Pass
NVNT	a	5180	Ant1	40	-50.44	-40	Pass
NVNT	a	5200	Ant1	-20	-33.15	-25	Pass
NVNT	a	5200	Ant1	-40	-51.15	-40	Pass
NVNT	a	5200	Ant1	20	-33.78	-25	Pass
NVNT	a	5200	Ant1	40	-50.38	-40	Pass
NVNT	a	5240	Ant1	-20	-33.11	-25	Pass
NVNT	a	5240	Ant1	-40	-50.99	-40	Pass
NVNT	a	5240	Ant1	20	-33.1	-25	Pass
NVNT	a	5240	Ant1	40	-50.14	-40	Pass
NVNT	ac20	5180	Ant1	-20	-32.13	-25	Pass
NVNT	ac20	5180	Ant1	-40	-51.14	-40	Pass
NVNT	ac20	5180	Ant1	20	-31.2	-25	Pass
NVNT	ac20	5180	Ant1	40	-50.53	-40	Pass
NVNT	ac20	5200	Ant1	-20	-31.6	-25	Pass
NVNT	ac20	5200	Ant1	-40	-51.17	-40	Pass
NVNT	ac20	5200	Ant1	20	-31.49	-25	Pass
NVNT	ac20	5200	Ant1	40	-50.59	-40	Pass
NVNT	ac20	5240	Ant1	-20	-32.29	-25	Pass
NVNT	ac20	5240	Ant1	-40	-50.68	-40	Pass
NVNT	ac20	5240	Ant1	20	-31.37	-25	Pass
NVNT	ac20	5240	Ant1	40	-49.95	-40	Pass
NVNT	ac40	5190	Ant1	-40	-39.04	-25	Pass
NVNT	ac40	5190	Ant1	-80	-50.32	-40	Pass
NVNT	ac40	5190	Ant1	40	-38.76	-25	Pass
NVNT	ac40	5190	Ant1	80	-48.77	-40	Pass
NVNT	ac40	5230	Ant1	-40	-39	-25	Pass
NVNT	ac40	5230	Ant1	-80	-49.43	-40	Pass
NVNT	ac40	5230	Ant1	40	-38.79	-25	Pass
NVNT	ac40	5230	Ant1	80	-47.48	-40	Pass
NVNT	ac80	5210	Ant1	-80	-36.51	-25	Pass
NVNT	ac80	5210	Ant1	-160	-46.89	-40	Pass
NVNT	ac80	5210	Ant1	80	-37.09	-25	Pass
NVNT	ac80	5210	Ant1	160	-44.52	-40	Pass
NVNT	n20	5180	Ant1	-20	-32.32	-25	Pass
NVNT	n20	5180	Ant1	-40	-51.69	-40	Pass
NVNT	n20	5180	Ant1	20	-32.81	-25	Pass
NVNT	n20	5180	Ant1	40	-51.07	-40	Pass
NVNT	n20	5200	Ant1	-20	-31.55	-25	Pass
NVNT	n20	5200	Ant1	-40	-50.7	-40	Pass
NVNT	n20	5200	Ant1	20	-31.28	-25	Pass
NVNT	n20	5200	Ant1	40	-50.03	-40	Pass
NVNT	n20	5240	Ant1	-20	-32.19	-25	Pass
NVNT	n20	5240	Ant1	-40	-50.91	-40	Pass
NVNT	n20	5240	Ant1	20	-31.34	-25	Pass
NVNT	n20	5240	Ant1	40	-49.91	-40	Pass
NVNT	n40	5190	Ant1	-40	-38.46	-25	Pass
NVNT	n40	5190	Ant1	-80	-50.01	-40	Pass
NVNT	n40	5190	Ant1	40	-38.19	-25	Pass
NVNT	n40	5190	Ant1	80	-48.62	-40	Pass

NVNT	n40	5230	Ant1	-40	-39.88	-25	Pass
NVNT	n40	5230	Ant1	-80	-49.7	-40	Pass
NVNT	n40	5230	Ant1	40	-39.71	-25	Pass
NVNT	n40	5230	Ant1	80	-47.85	-40	Pass

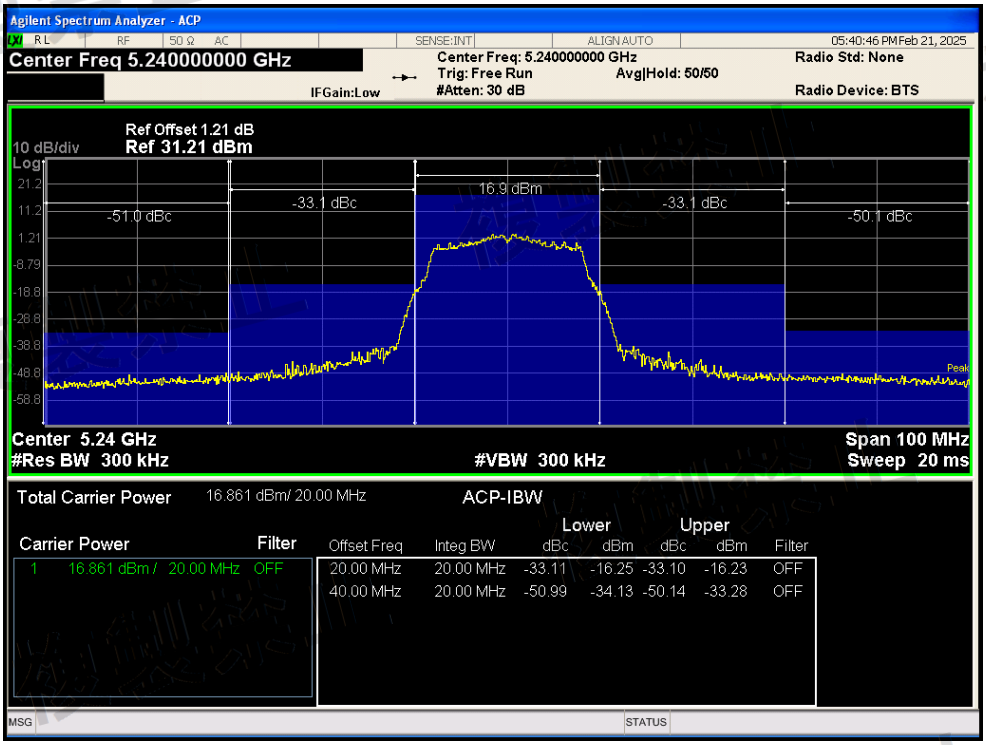
ACEP NVNT a 5180MHz Ant1



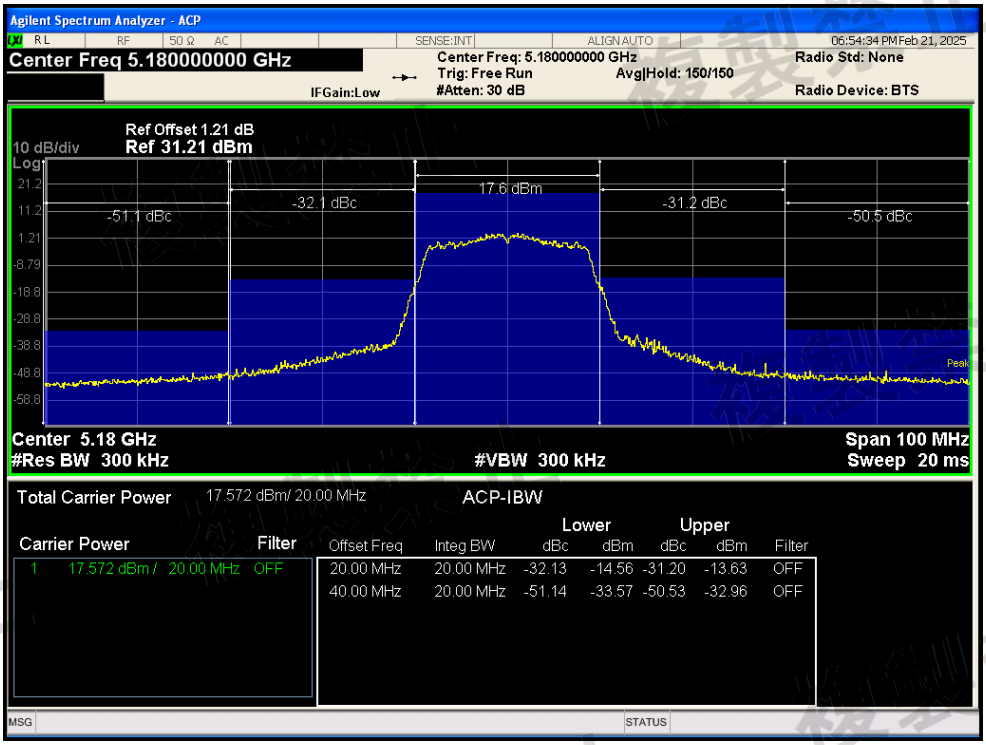
ACEP NVNT a 5200MHz Ant1



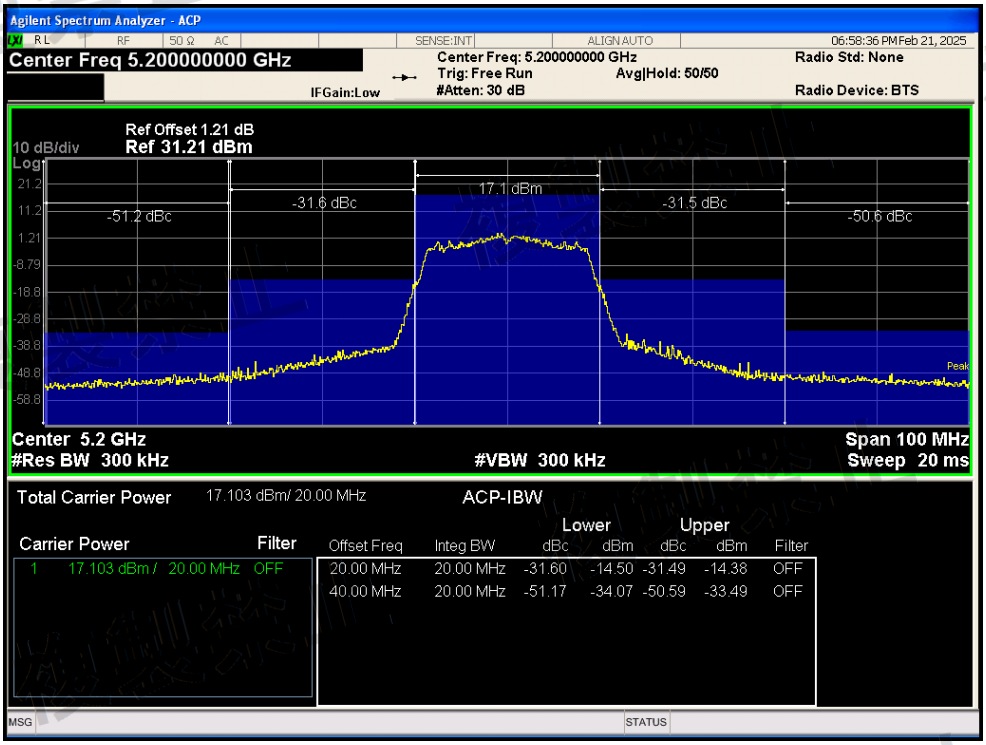
ACEP NVNT a 5240MHz Ant1



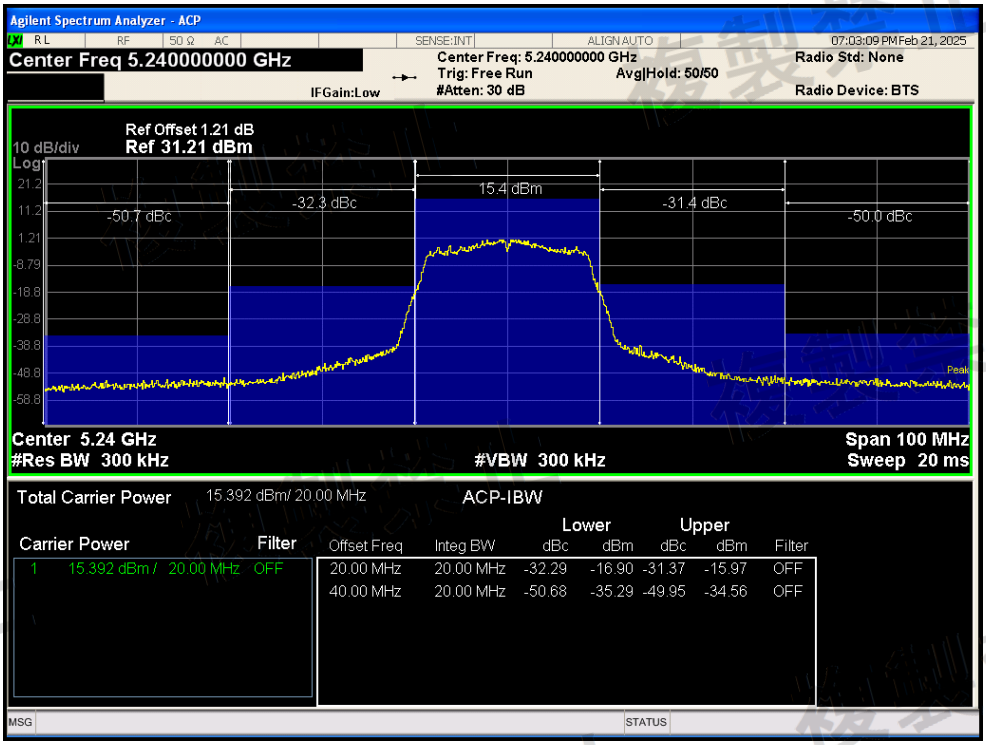
ACEP NVNT ac20 5180MHz Ant1



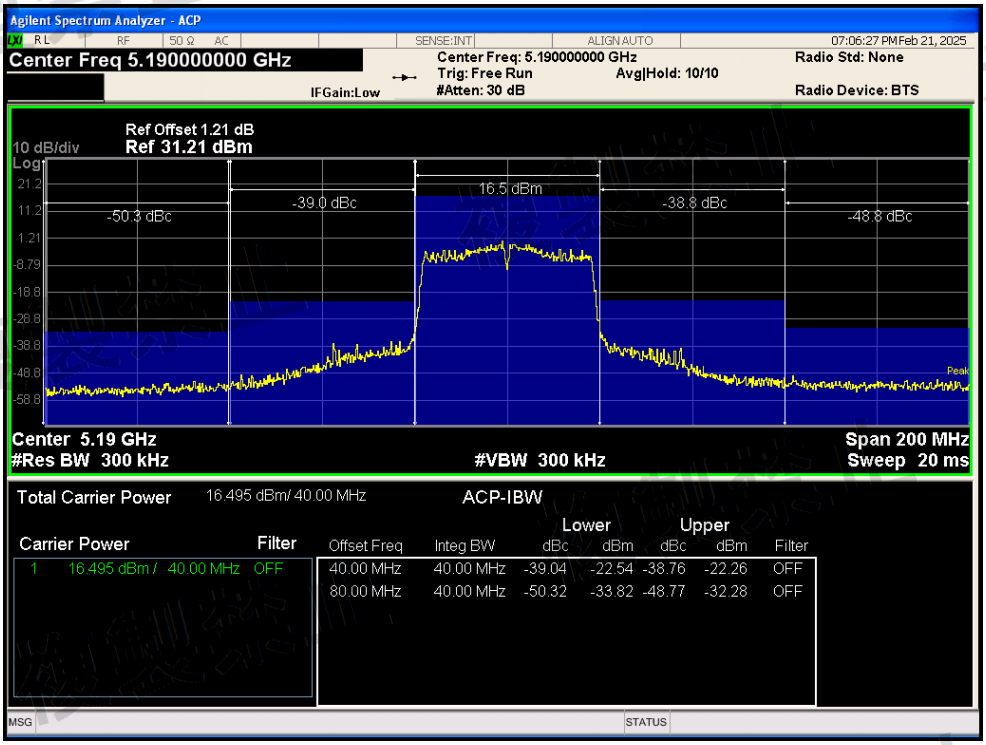
ACEP NVNT ac20 5200MHz Ant1



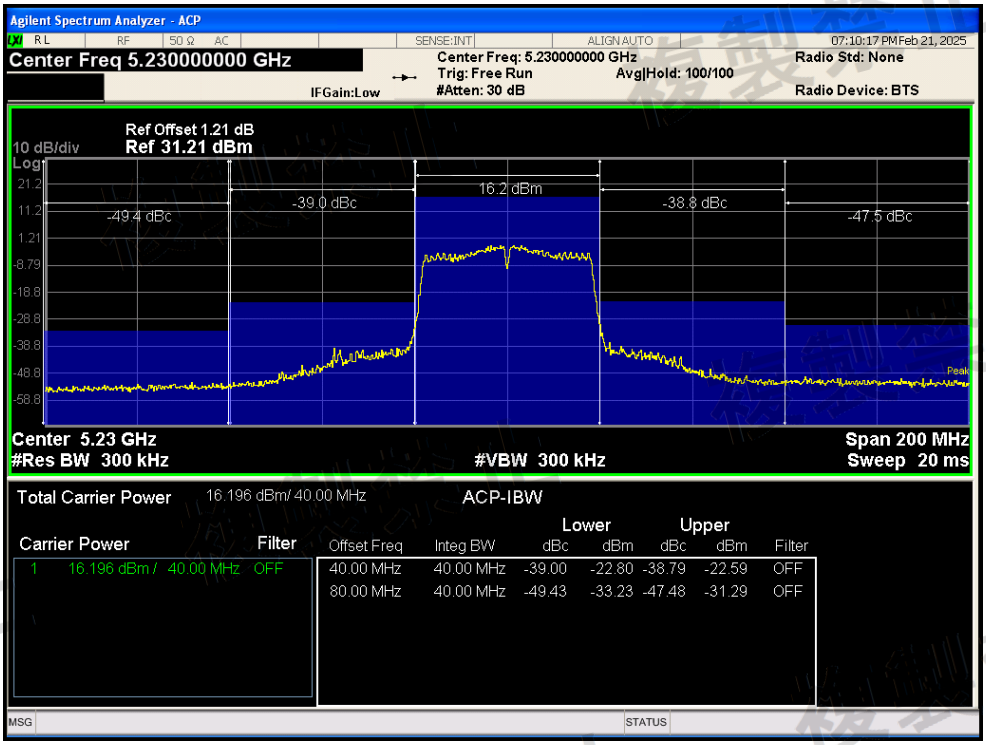
ACEP NVNT ac20 5240MHz Ant1



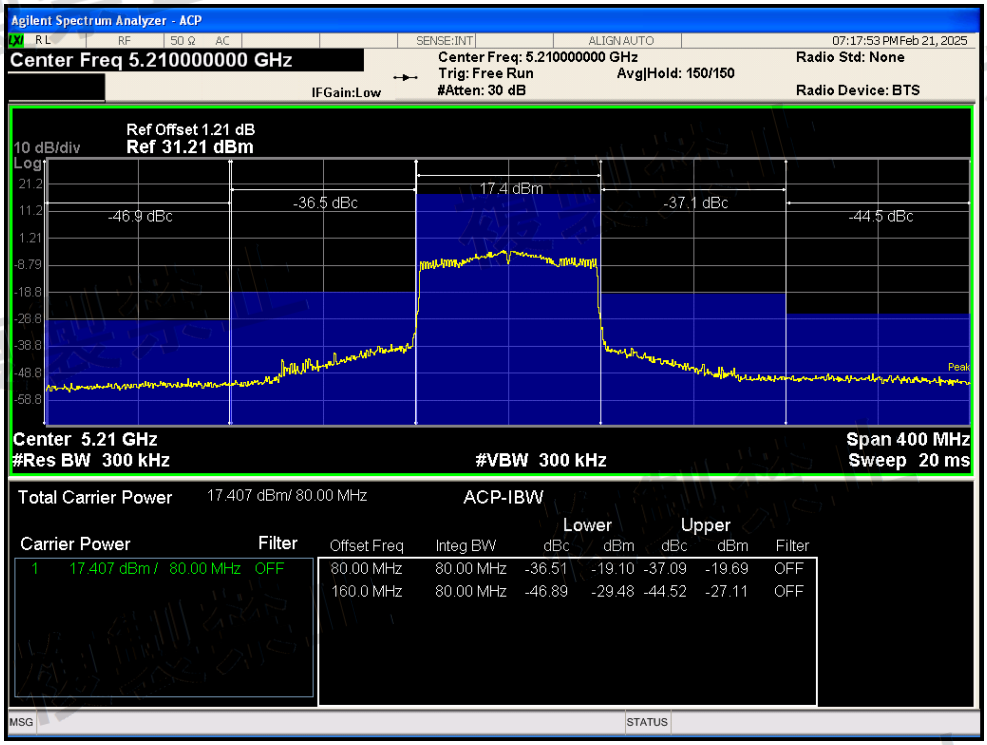
ACEP NVNT ac40 5190MHz Ant1



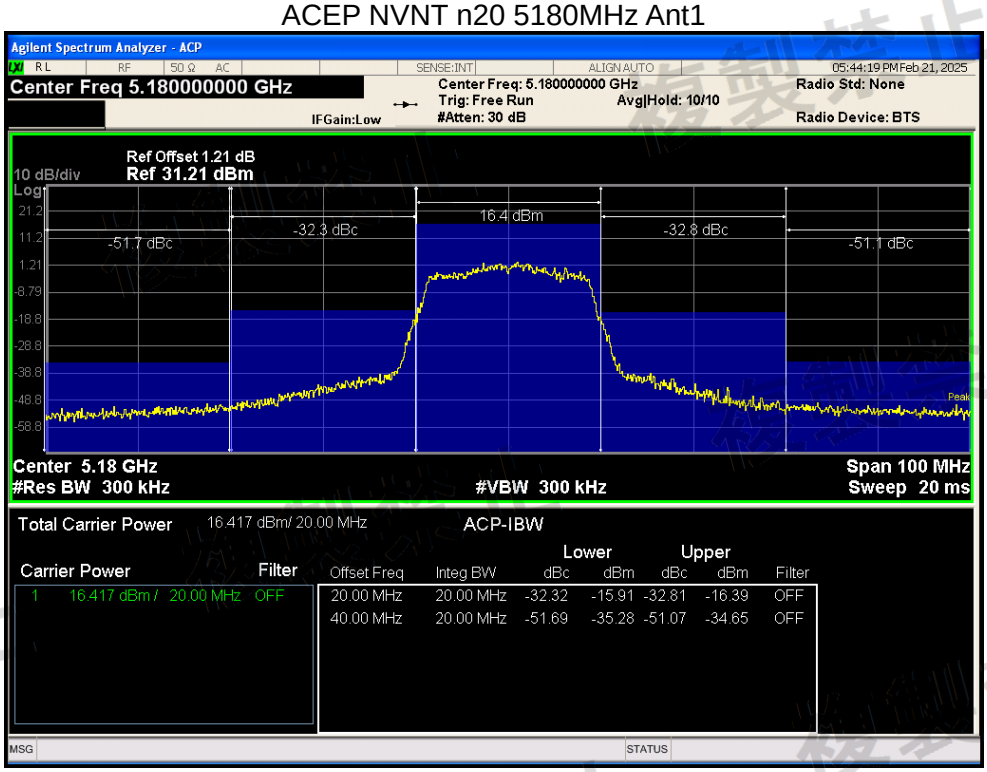
ACEP NVNT ac40 5230MHz Ant1



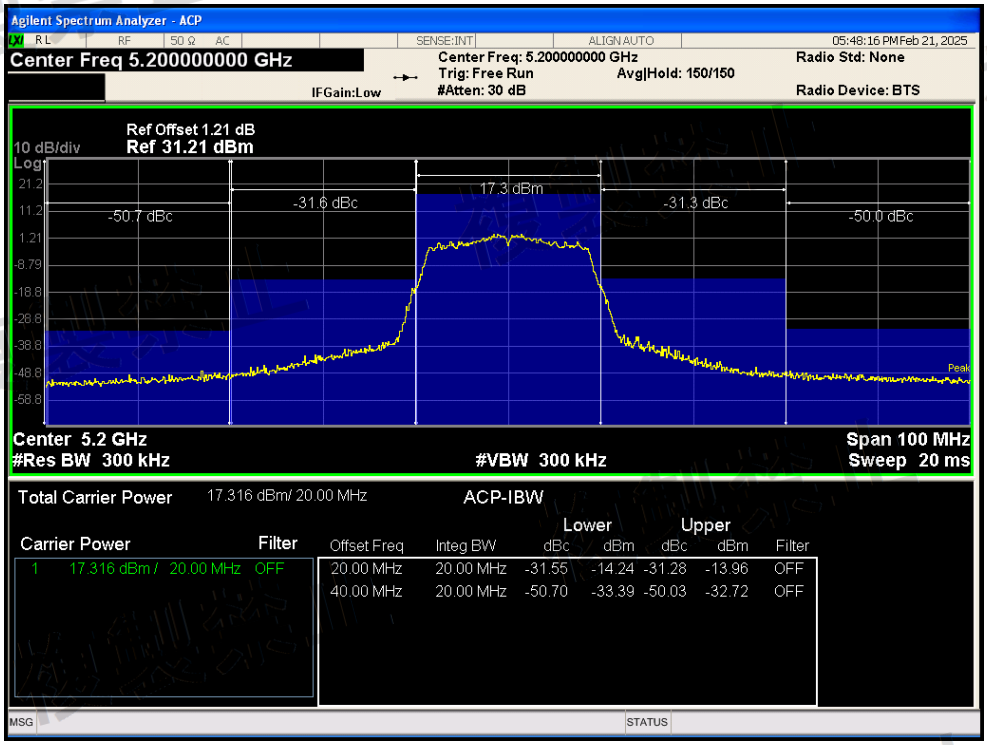
ACEP NVNT ac80 5210MHz Ant1



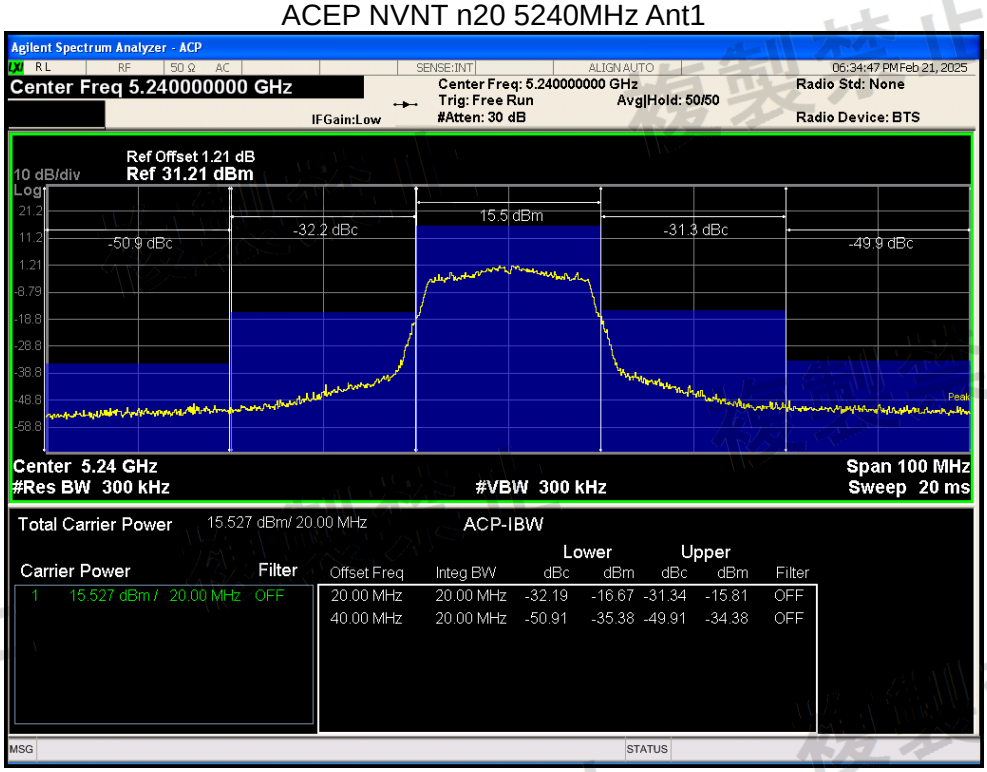
ACEP NVNT n20 5180MHz Ant1



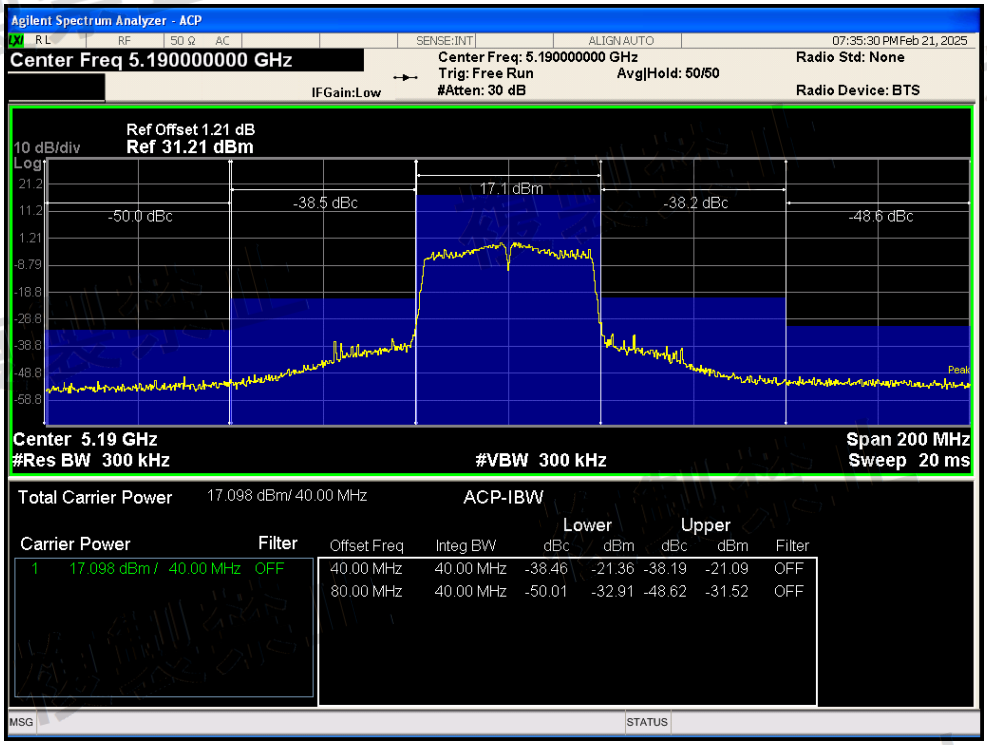
ACEP NVNT n20 5200MHz Ant1



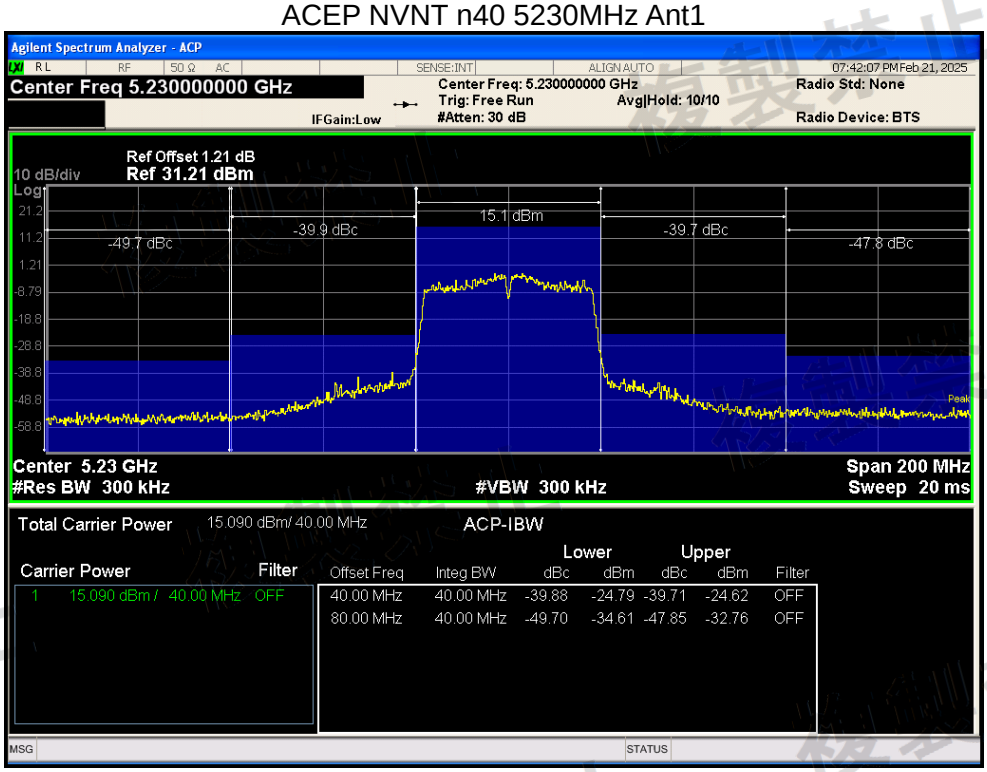
ACEP NVNT n20 5240MHz Ant1



ACEP NVNT n40 5190MHz Ant1



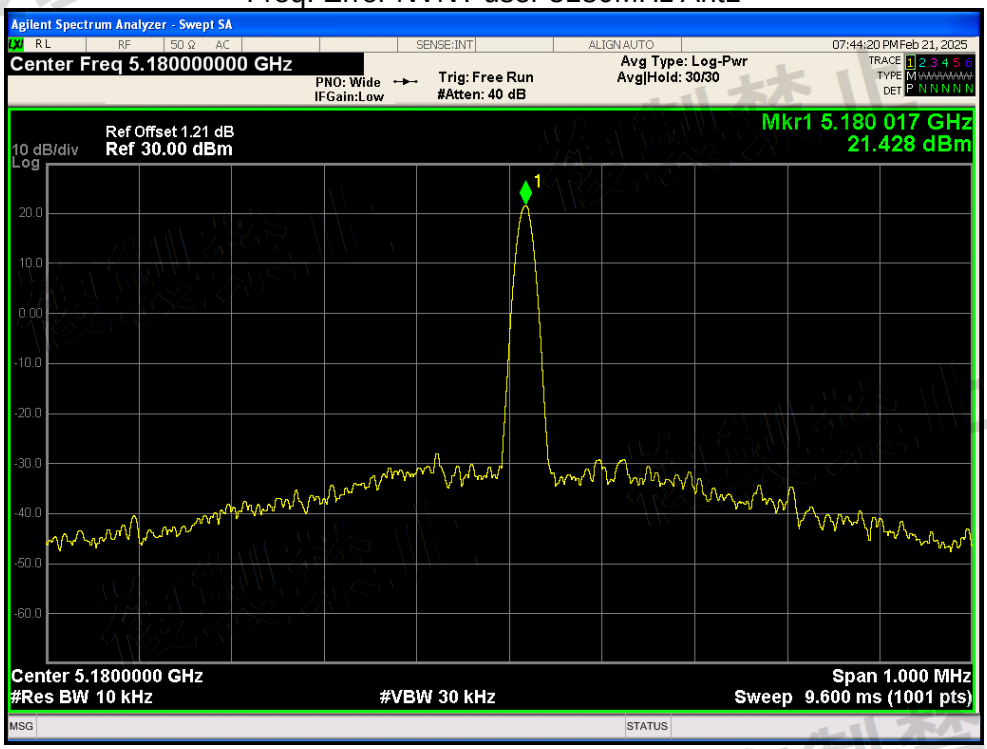
ACEP NVNT n40 5230MHz Ant1



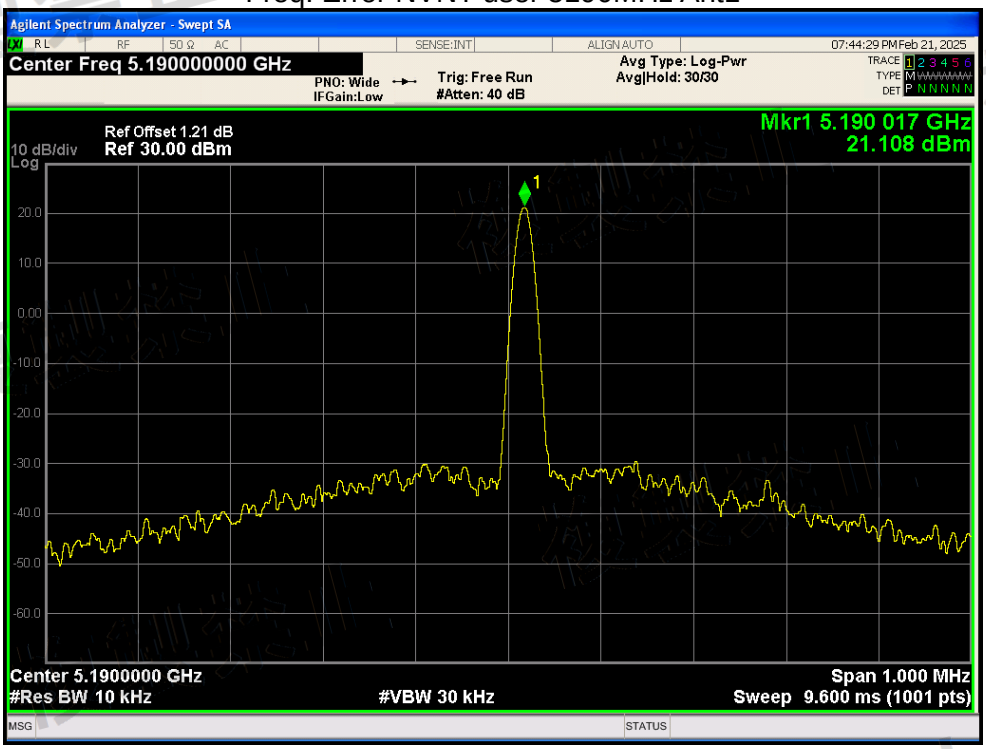
14.8 FREQUENCY ERROR

Condition	Mode	Frequency (MHz)	Antenna	Measured Frequency (MHz)	Deviation (ppm)	Limit (ppm)	Verdict
NVNT	user	5180	Ant1	5180.017	3.28	20	Pass
NVNT	user	5190	Ant1	5190.017	3.28	20	Pass
NVNT	user	5200	Ant1	5200.017	3.27	20	Pass
NVNT	user	5210	Ant1	5210.018	3.45	20	Pass
NVNT	user	5230	Ant1	5230.018	3.44	20	Pass
NVNT	user	5240	Ant1	5240.018	3.44	20	Pass

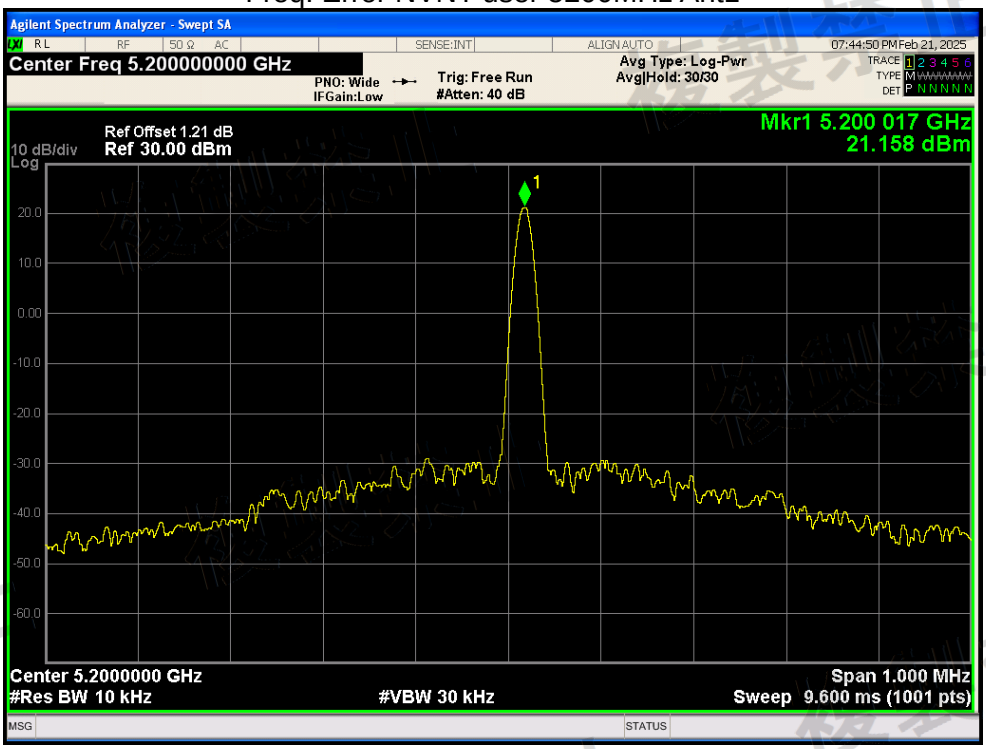
Freq. Error NVNT user 5180MHz Ant1



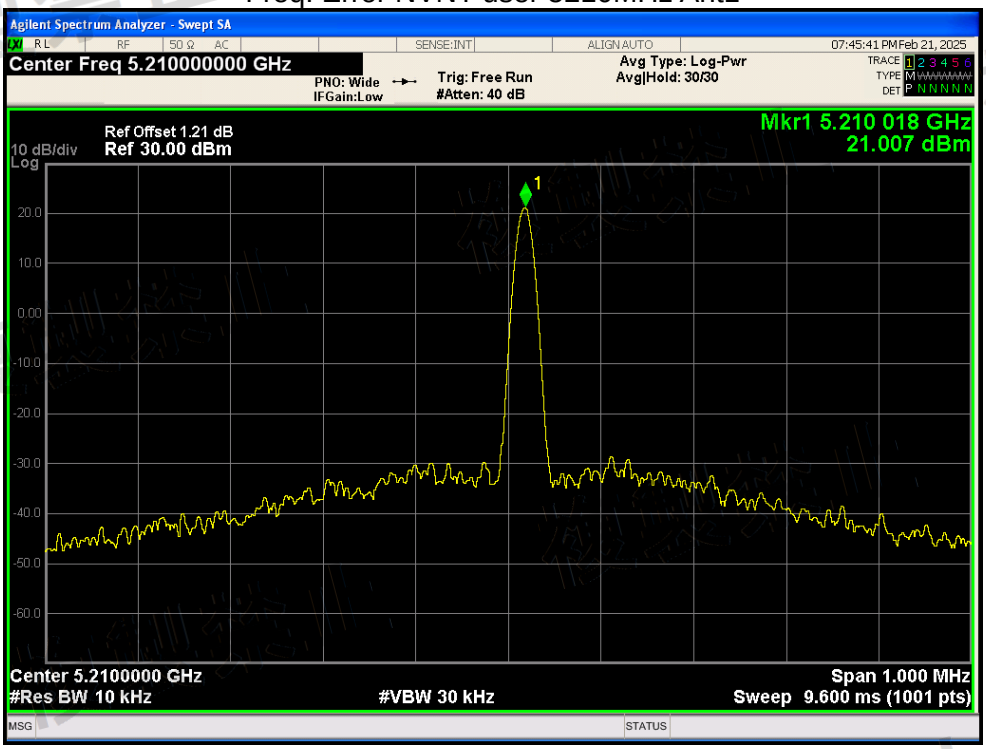
Freq. Error NVNT user 5190MHz Ant1



Freq. Error NVNT user 5200MHz Ant1



Freq. Error NVNT user 5210MHz Ant1



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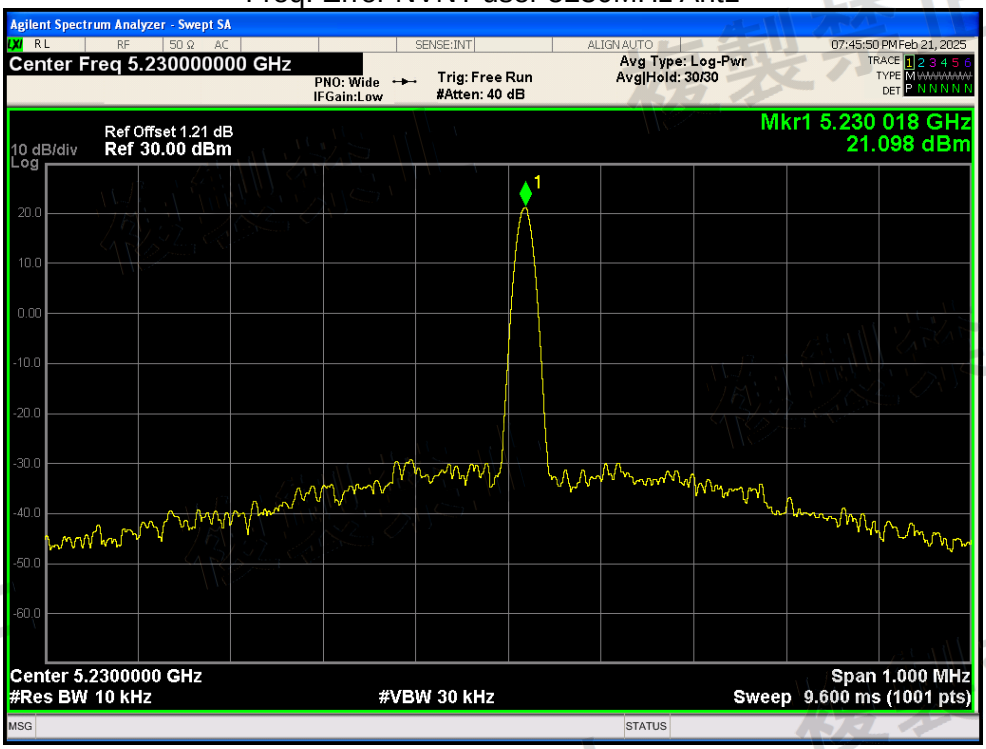

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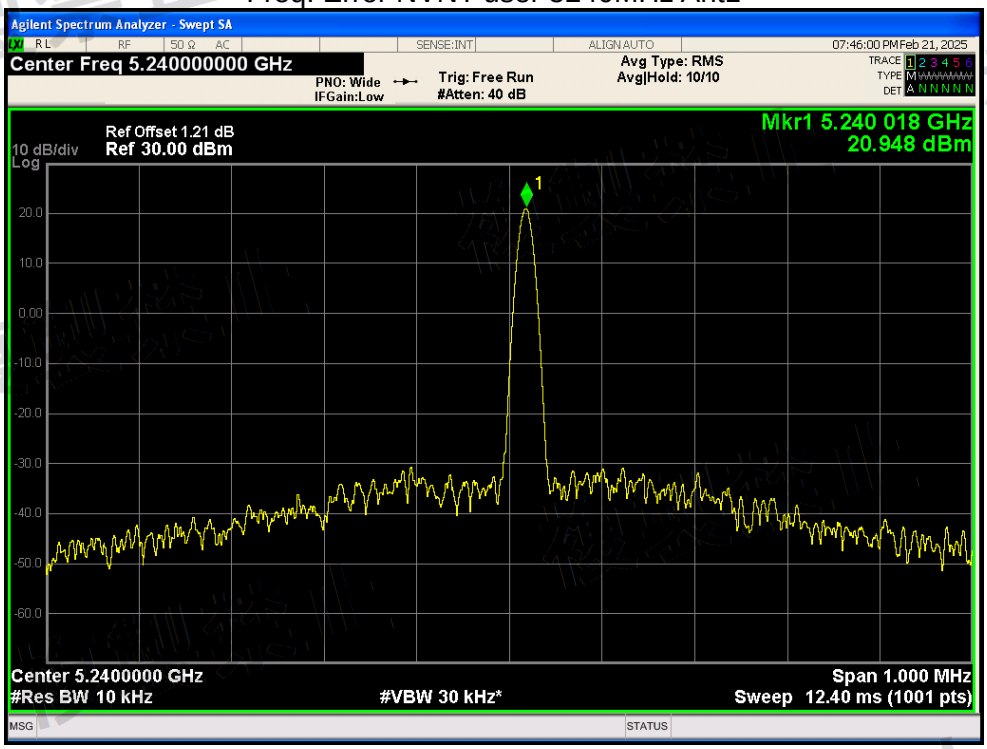

END OF REPORT