



RADIO TEST REPORT

Article 2 paragraph 1 item (19)

MIC Notice No.88 Appendix No.43

Product : Vinabot AI Interactive Display

Trade Mark : Vinabot

Model Name : Vina AF1

Family Model: Vina AF Pro, Vina AF Plus, Vina AF Ultra, Vina AF Edition, Vina AF Turbo, Vina AF CN

Report No. : N26030303614E

Prepared for

LAIPIC AI TECHNOLOGY COMPANY LIMITED

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TEST RESULT CERTIFICATION

Applicant's name..... LAIPIC AI TECHNOLOGY COMPANY LIMITED

Address..... Room 3, Level 15, Core F, Cyberport 3, 100 Cyberport Road, Hong Kong

Manufacturer's Name..... Shenzhen Qianhai Hand-painted Technology and Culture Co. Ltd.

Address..... Room 501A1, Building 3, North District, Youth Dream Factory, No. 5188 Menghai Avenue, Nanshan Street, Nanshan District, Shenzhen, Guangdong Province

Test specification:

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

Test item description

Product name Vinabot AI Interactive Display

Trade Mark..... Vinabot

Model and/or type Vina AF1, Vina AF Pro, Vina AF Plus, Vina AF Ultra, Vina AF Edition,
reference Vina AF Turbo, Vina AF CN

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..... S2603050139-1#

Date (s) of performance of tests Mar. 03, 2026 ~ May. 20 2026

Date of Issue..... May. 20 2026

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

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※ ※ Revision History ※ ※

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

NOTE:

- (1) "N/A" denotes test is not applicable in this Test Report
- (2) MIC Ordinance Regulating Radio Equipment Section 1.A of Article 49.20.1
- (3) Not apply to this device, since EIRP does not require compensation through Antenna Power.
- (4) Apply for 802.11n40 which the Occupied bandwidth within 26MHz-40MHz
- (5) Only reported

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 Xinfu East Road, Xiangshan Community, Xinqiao Street, Baoan District, Shenzhen, Guangdong, People's Republic of China

1.2 MEASUREMENT UNCERTAINTY

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

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

2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	Vinabot AI Interactive Display	
Trade Mark	Vinabot	
Model Name	Vina AF1	
Family Model	Vina AF Pro, Vina AF Plus, Vina AF Ultra, Vina AF Edition, Vina AF Turbo, Vina AF CN	
Model Difference	All models are the same circuit and RF module, except for the models name.	
Product Description	The EUT is Vinabot AI Interactive Display	
	Operation Frequency:	802.11b/g/n(20MHz)/ax(20MHz):2412~2472 MHz 802.11n(40MHz)/ax(40MHz):2422~2462 MHz
	Modulation Type:	DSSS with DBPSK/DQPSK/CCK for 802.11b; OFDM with BPSK/QPSK/16QAM/64QAM/256QAM for 802.11g/n; OFDMA with QPSK/BPSK/16QAM/64QAM/256QAM/1024QAM for 802.11ax
	Antenna Designation:	PCB Antenna
	Antenna Gain	5.2dBi
Channel List	Please refer to the Note 2.	
Adapter	Model: KA3601A -1203000DE Input: 100-240V~50/60Hz 1.0A Max Output: 12.0V---3A, 36W	
Battery	N/A	
Rating(s)	DC 12V from Adapter	
Hardware Version	N/A	
Firmware version:	N/A	
Software Version	N/A	

Note:

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

2.

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

2.2 DESCRIPTION OF TEST MODES

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

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

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

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 12V	DC 13.2V	DC 10.8V
RF Chip	DC 3.3V	DC 3.3V	DC 3.3V

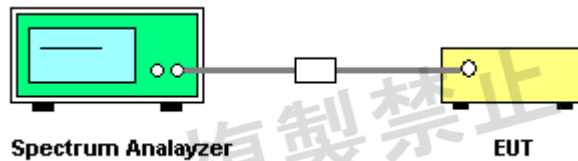
NOTE:

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	Vinabot AI Interactive Display	Vina AF1	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”.

2.6 EQUIPMENTS LIST FOR ALL TEST ITEMS

Test equipment

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	SPECTRUM ANALYZER	AGLIENT	E4440A	MY41000130	2025.04.24 2026.04.08	2026.04.23 2027.04.07	1 year
2	SPECTRUM ANALYZER	AGILENT	N9020A	MY49100060	2025.04.17 2026.04.08	2026.04.16 2027.04.07	1 year
3	TEST RECEIVER	R&S	ESPI7	101318	2025.04.17 2026.04.08	2026.04.16 2027.04.07	1 year
4	50Ω COAXIAL SWITCH	ANRITSU	MP59B	6200983705	2024.04.26	2027.04.25	3 year
5	HORN ANTENNA	EM	EM-AH-10180	2011071402	2024.05.12	2027.05.11	3 year
6	HORN ANT	SCHWARZBECK	BBHA 9170	803	2024.05.12	2027.05.11	3 year
7	PRE-AMPLIFIER	EMC	EMC051835SE	980246	2025.04.17 2026.04.08	2026.04.16 2027.04.07	1 year
8	POWER METER	DARE	RPR3006W	15I00041SNO84	2025.04.17 2026.04.08	2026.04.16 2027.04.07	1 year
9	TEMPORARY ANTENNA CONNECTOR (NOTE)	NTS	R001	N/A	N/A	N/A	N/A
10	DC POWER SUPPLY	ZHAOXIN	PS-6005D	20170402923	2024.04.25	2027.04.24	3 year
11	ESG VETCTOR SIGNAL GENERATOR	AGILENT	E4438C	MY45093347	2025.04.17 2026.04.08	2026.04.16 2027.04.07	1 year
12	PSG ANALOG SIGNAL GENERATOR	AGILENT	E8257D	MY51110112	2025.05.06 2026.04.27	2026.05.05 2027.04.26	1 year

Note:

Calibration Method:

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

(b) Correction conducted pursuant to the provisions of Article 135 or Article 144 of the Measurement Act (Act No. 51 of 1992)

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

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

The calibration corresponds to c described above.

All the equipments for Guangzhou Lisai Calibration.

3. TEST RESULT FOR WIFI

3.1 FREQUENCY ERROR

3.2 LIMIT

Item	Limits
Frequency Error	+/-50ppm

3.3 MEASURING INSTRUMENTS AND SETTING

The following table is the setting of Spectrum Analyzer.

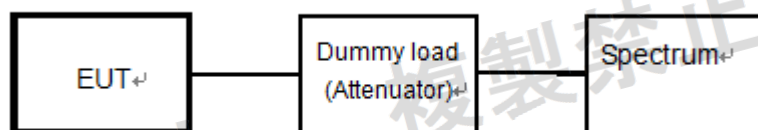
Spectrum Parameter	Setting
Attenuation	Auto
RB / VB	10KHz/30KHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

3.4 TEST PROCEDURES

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

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

3.5 TEST SETUP LAYOUT



4.1.5. EUT OPERATION DURING TEST

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

3.5.1 TEST RESULT

EUT:	Vinabot AI Interactive Display	Model:	Vina AF1
Temperature:	25°C	Tested by:	Allen Liu
Humidity:	55 % RH	Test Voltage	Normal Voltage(DC 12V)
Operation Mode:	Unmodulated		

Test data reference attachment

4. ANTENNA POWER

4.1 LIMIT

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

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

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

4.2 TEST SETUP LAYOUT



4.3 TEST DEVIATION

There is no deviation with the original standard.

4.4 TEST RESULT

EUT :	Vinabot AI Interactive Display	Model:	Vina AF1
Temperature:	25°C	Tested by:	Allen Liu
Humidity:	55 % RH	Test Voltage	Normal Voltage(DC 12V)
Operation Mode:	Normal Voltage-802.11b/g/n/ax(HT20/ HT40) mode		

Test data reference attachment

5. OCCUPIED BANDWIDTH

5.1 LIMIT

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

6.1.2. MEASURING INSTRUMENTS AND SETTING

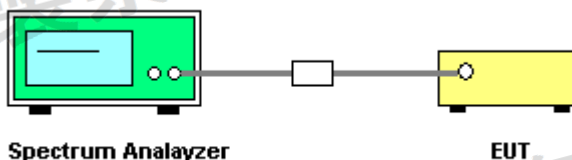
6.1.3. TEST PROCEDURES

Set the spectrum analyzer as follows :

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

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

6.1.4. TEST SETUP LAYOUT



6.1.5. TEST DEVIATION

There is no deviation with the original standard.

6.1.6. EUT OPERATION DURING TEST

The EUT was programmed to be in continuously transmitting mode.

5.2 TEST RESULT

EUT :	Vinabot AI Interactive Display	Model:	Vina AF1
Temperature:	25°C	Tested by:	Allen Liu
Humidity:	55 % RH	Test Voltage	Normal Voltage(DC 12V)
Operation Mode:	Normal Voltage-802.11b/g/n/ax(HT20 / HT40) mode		

Test data reference attachment

6. UNWANTED EMISSION INTENSITY MEASUREMENT

6.1 LIMIT

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

6.2 MEASURING INSTRUMENTS AND SETTING

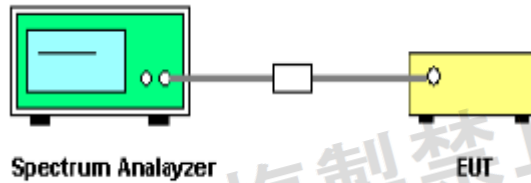
Please refer to section 5 in this report. The following table is the setting of Spectrum Analyzer.

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

6.3 TEST PROCEDURES

1. EUT have transmitted the maximum modulation signal and fixed channelize.
2. Setting of SA is following as: Below 1GHz RB:100KHz / VB:100KHz
Above 1GHz RB:1MHz / VB:1MHz / AT: 10dB Ref: 0dBm / Sweep time: Auto
Sweep Mode: Continuous sweep / Detect mode: Average
Trace mode: Max hold
3. Setting of SA is following as 30MHz and stop frequency 1000MHz Then to mark peak reading value + cable loss shall be less than 0.25 μW .
4. Setting of SA is following as 1000MHz and stop frequency 2387MHz Then to mark peak reading value + cable loss shall be less than 2.5 μW .
5. SA adjusted to start frequency 2387MHz and stop frequency 2400MHz. Then to mark peak reading value + cable loss shall be less than 25 μW .
6. SA adjusted to start frequency 2483.5MHz and stop frequency 2496.5MHz Then to mark peak reading value + cable loss shall be less than 25 μW
7. SA adjusted to start frequency 2496.5MHz and stop frequency 12500MHz Then to mark peak reading value + cable loss shall be less than 2.5 μW
8. Measure side band spurious as follows: For 2.4GHz band: 2374MHz~2400MHz and 2483.5MHz~2509.5MHz RBW = VBW = 30kHz, Result_Value = Measured_Value + 15.2 [dBm]
9. If the Result_Value is over the requirement, take total sum of 1MHz band centered at the spur frequency like ACLP measurement as Result_Value.

6.4 TEST SETUP LAYOUT



6.5 TEST DEVIATION

There is no deviation with the original standard.

6.6 TEST RESULT

EUT:	Vinabot AI Interactive Display	Model:	Vina AF1
Temperature:	25°C	Tested by:	Allen Liu
Humidity:	55 % RH	Test Voltage	Normal Voltage(DC 12V)
Operation Mode:	Normal Voltage-802.11b/g/n/ax(HT20/ HT40) mode		

Test data reference attachment

7. IMITATION OF COLLATERAL EMISSION OF RECEIVER MEASUREMENT

7.1 LIMIT

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

7.2 MEASURING INSTRUMENTS AND SETTING

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

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

7.3 TEST PROCEDURES

1. EUT have the continuous reception mode and fixed only one channelize.
2. Setting of SA is following as RB / VB: 100 kHz (below 1GHz emissions) / 1 MHz (above 1GHz emissions) /
AT: 10dB / Ref: 0dBm / Sweep time: Auto / Sweep Mode: Continuous sweep / Detect mode: Average / Trace mode: Max hold
3. SA set RB: 100kHz and VB: 100kHz. Then adjust to start frequency 30MHz and stop frequency 1000MHz. Search to mark peak reading value + cable loss shall be less than 4nW
4. SA set RB: 1MHz and VB: 1MHz. Then adjust to start frequency 1000MHz and stop frequency 12500MHz. Search to mark peak reading value + cable loss shall be less than 20nW
5. If power level of lower emissions are more than 1/10 of limit (.0.4nW for $f < 1\text{GHz}$, 2nW for $f \geq 1\text{GHz}$), all those are to be indicated in the 2nd and 3rd lines. If others are 1/10 or less more of the limit, no necessary to be indicated.

7.4 TEST RESULT

EUT:	Vinabot AI Interactive Display	Model:	Vina AF1
Temperature:	25°C	Tested by:	Allen Liu
Humidity:	55 % RH	Test Voltage	Normal Voltage(DC 12V)
Operation Mode:	Normal Voltage-802.11b/g/n/ax(HT20/ HT40) RX mode		

Test data reference attachment

8. TRANSMISSION ANTENNA GAIN (EIRP ANTENNA POWER) MEASUREMENT

8.1 LIMIT

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

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

Note 2: OFDM 1 in the modulation method column indicates that the occupied frequency band width is 26 MHz or less, and OFDM 2 indicates the occupied frequency bandwidth exceeding 26 MHz and 38 MHz or less.

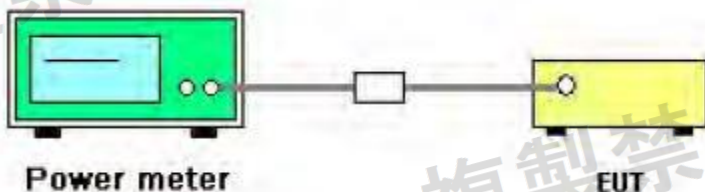
Note 3: This test item will not be applied to the transmission antenna which has a gain of 2.14dBi or less.

8.2 MEASURING INSTRUMENTS AND SETTING

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

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

8.3 TEST SETUP LAYOUT



8.4 TEST DEVIATION

There is no deviation with the original standard.

8.5 EUT OPERATION DURING TEST

The EUT was programmed to be in continuously transmitting mode.

8.6 RESULTS OF TRANSMISSION ANTENNA GAIN

EUT :	Vinabot AI Interactive Display	Model:	Vina AF1
Temperature:	25°C	Tested by:	Allen Liu
Humidity:	55 % RH	Test Voltage	Normal Voltage(DC 12V)
Operation Mode:	Normal Voltage-802.11b/g/n/ax(HT20/ HT40) mode		

Test data reference attachment

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

9.1 LIMIT

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

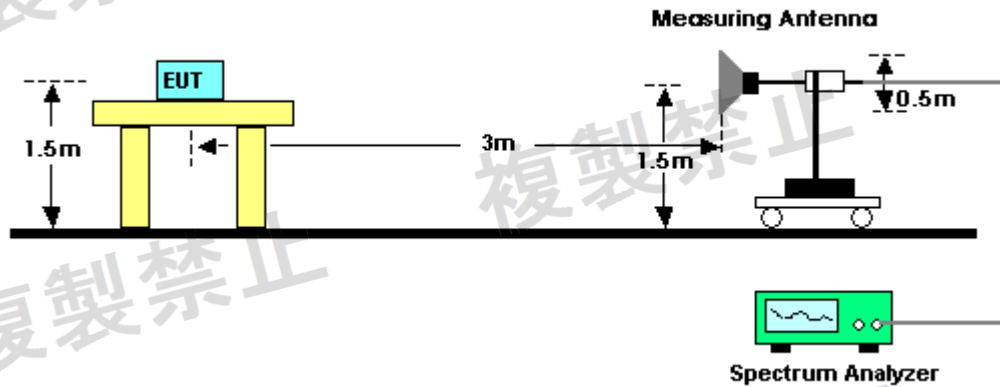
9.2 MEASURING INSTRUMENTS AND SETTING

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

9.3 TEST PROCEDURES

1. Set EUT and measuring antenna at the same height and roughly facing each other.
2. Set spectrum analyzer with condition in section 4.7.2 and tune reference level to observe receiving signal position.
3. Rotate directions of the EUT horizontally and vertically to find the maximum receiving power.
4. Move the measuring antenna height up and down within $\pm 50\text{cm}$ of EUT height and swing it to find the maximum output of measuring antenna. The output level at the spectrum analyzer is read as "E"
5. Calculate permitted radiation angle in horizontal and vertical using EIRP measured in another test method.
6. Calculate 3dB antenna beam width by the formula below $360/A$ (If $A < 1$; then $A=1$).
 $A = \{\text{EIRP Power [mW]} / 16.36 \text{ for DS, OFDM}\}$ or
 $A = \{\text{EIRP Power [mW]} / 4.9 \text{ for FH}\}$

9.4 TEST SETUP LAYOUT



9.5 TEST DEVIATION

There is no deviation with the original standard.

9.6 EUT OPERATION DURING TEST

The EUT was programmed to be in continuously transmitting mode.

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

EUT :	Vinabot AI Interactive Display	Model:	Vina AF1
Temperature:	25°C	Tested by:	N/A
Humidity:	55 % RH	Test Voltage	N/A
Operation Mode:	N/A		

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

10. RADIO INTERFERENCE PREVENTION CAPABILITY MEASUREMENT

10.1 LIMIT

Item	Limits
Identification code	≥ 48 bits

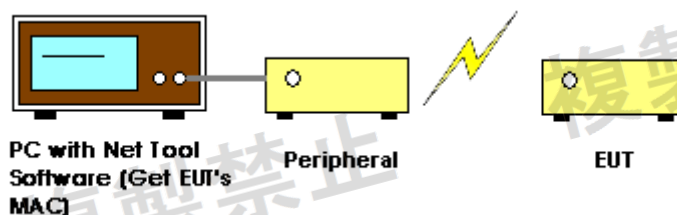
10.2 MEASURING ID CODE SOFTWARE

Item	Limits
MAC IP List	MAC Scan

10.3 TEST PROCEDURES

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

10.4 TEST SETUP LAYOUT



10.5 TEST DEVIATION

There is no deviation with the original standard.

10.6 EUT OPERATION DURING TEST

The EUT was programmed to be in normal transmitting mode.

10.7 TEST RESULT OF RADIO INTERFERENCE PREVENTION CAPABILITY

EUT :	Vinabot AI Interactive Display	Model:	Vina AF1
Temperature:	25°C	Tested by:	Allen Liu
Humidity:	55 % RH	Test result:	Compliance

MAC Address: 5E:CA:F28:A3:EA:65

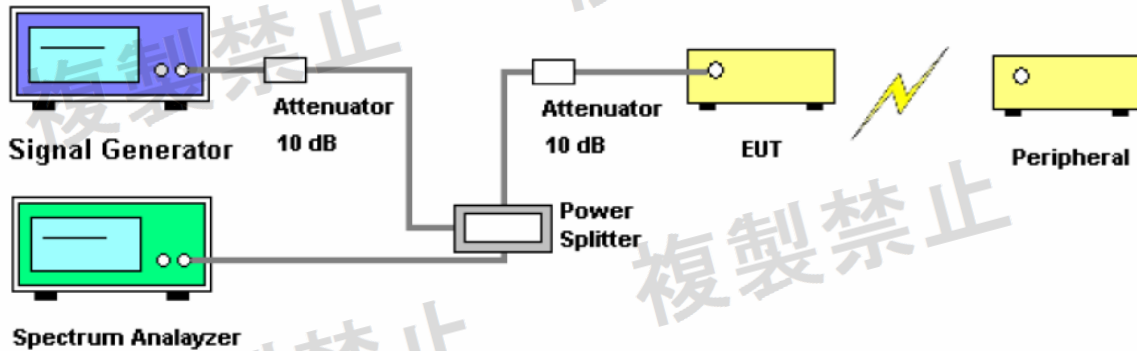
11 CARRIER SENSE FUNCTION

11.1 LIMIT

EUT stop RF transmission signal after carrier inject to EUT

11.2 TEST PROCEDURE

Measurement System Diagram



1. SG adjusted the frequency as same as the EUT transmitted signal and emitted the absence of modulation from SG and power level is (on $22.79 + G - 20 \cdot \log(f)$ dBm) (G is the antenna gain, f is the test frequency).
2. turn off the RF signal of the SG.
3. EUT have transmitted the maximum modulation signal and fixed channelize.
4. Setting of SA :RBW/VBW=1MHz/1MHz, Span=50MHz, Sweep time=auto, Sweep mode=continuous, Detect mode=positive peak
5. SG RF signal on.
6. EUT shall be stop the transmitted any signal and SG RF signal off, the EUT will be continuous transmitted signal.

11.3 TEST RESULT

EUT :	Vinabot AI Interactive Display	Model:	Vina AF1
Temperature:	25°C	Tested by:	Allen Liu
Humidity:	55 % RH	Test Voltage	Normal Voltage(DC 12V)
Operation Mode:	Normal Voltage-802.11n/ax40 mode		

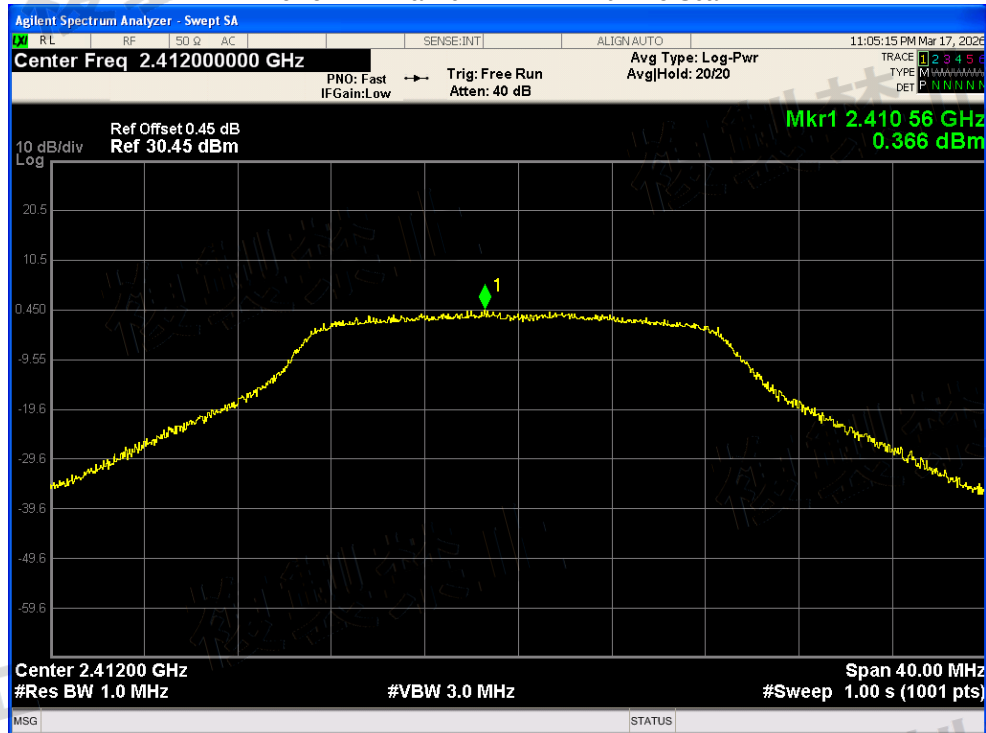
Mode	Channel	Result		
		Normal Voltage	High Voltage	Low Voltage
802.11n40	CH3	Pass	/	/
	CH7	Pass	/	/
	CH11	Pass	/	/
802.11ax40	CH3	Pass	/	/
	CH7	Pass	/	/
	CH11	Pass	/	/

12. TEST RESULTS

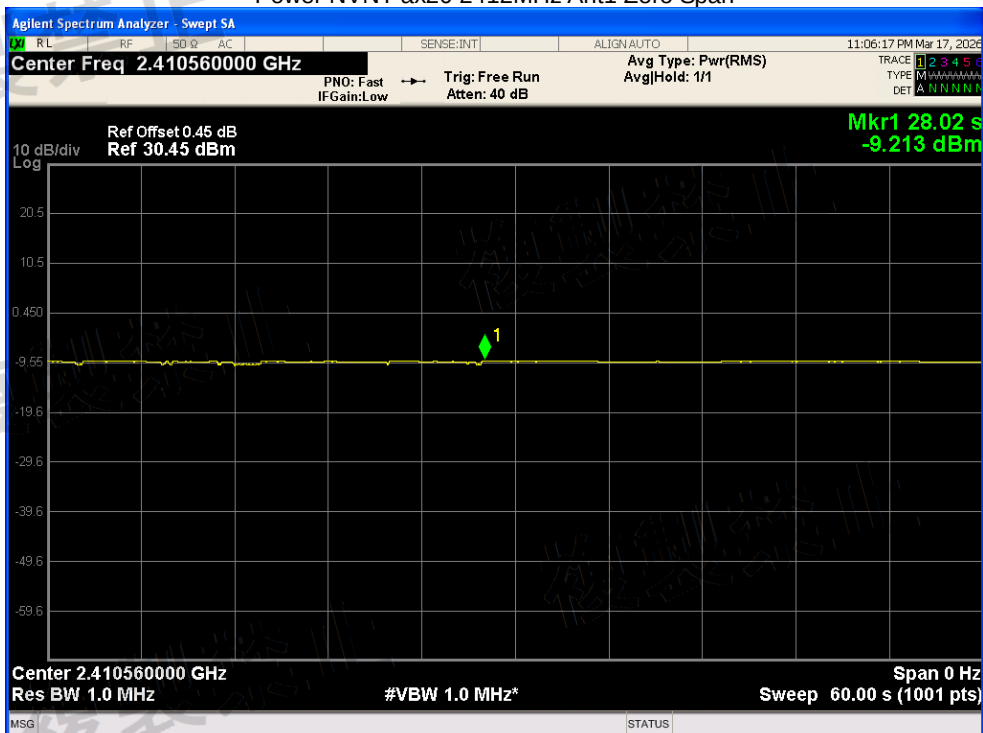
12.1 ANTENNA AND EIRP POWER

Condition	Mode	Frequency (MHz)	Antenna	Antenna Power (mW/MHz)	Declared Power (mW/MHz)	Tolerance (%)	Upper Limit (%)	Verdict
NVNT	ax20	2412	Ant1	0.12	0.15	-20.09	20	Pass
NVNT	ax20	2442	Ant1	0.128	0.15	-14.45	20	Pass
NVNT	ax20	2472	Ant1	0.109	0.15	-27.07	20	Pass
NVNT	ax40	2422	Ant1	0.049	0.1	-50.88	20	Pass
NVNT	ax40	2442	Ant1	0.056	0.1	-43.6	20	Pass
NVNT	ax40	2462	Ant1	0.047	0.1	-53.12	20	Pass
NVNT	b	2412	Ant1	3.102	3.5	-11.36	20	Pass
NVNT	b	2442	Ant1	2.755	6.5	-57.61	20	Pass
NVNT	b	2472	Ant1	3.141	3.5	-10.27	20	Pass
NVNT	g	2412	Ant1	0.097	0.2	-51.56	20	Pass
NVNT	g	2442	Ant1	0.106	0.2	-46.84	20	Pass
NVNT	g	2472	Ant1	0.089	0.2	-55.61	20	Pass
NVNT	n20	2412	Ant1	0.085	0.2	-57.56	20	Pass
NVNT	n20	2442	Ant1	0.09	0.2	-55	20	Pass
NVNT	n20	2472	Ant1	0.078	0.2	-61.04	20	Pass
NVNT	n40	2422	Ant1	0.041	0.2	-79.62	20	Pass
NVNT	n40	2442	Ant1	0.044	0.2	-77.87	20	Pass
NVNT	n40	2462	Ant1	0.052	0.2	-73.98	20	Pass

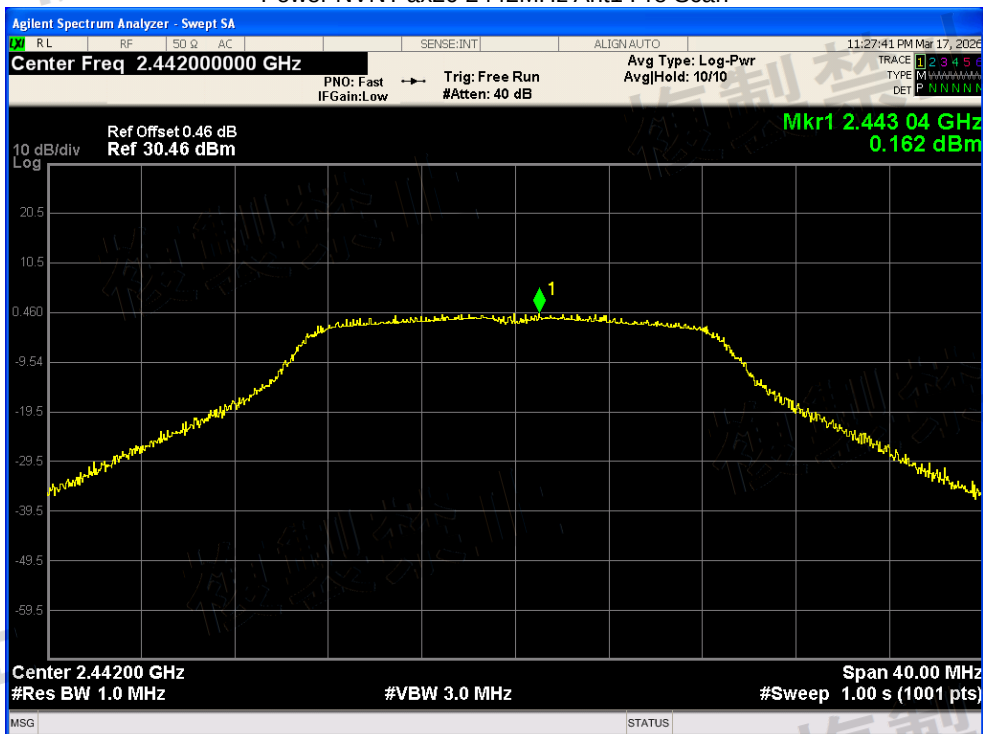
Power NVNT ax20 2412MHz Ant1 Pre Scan



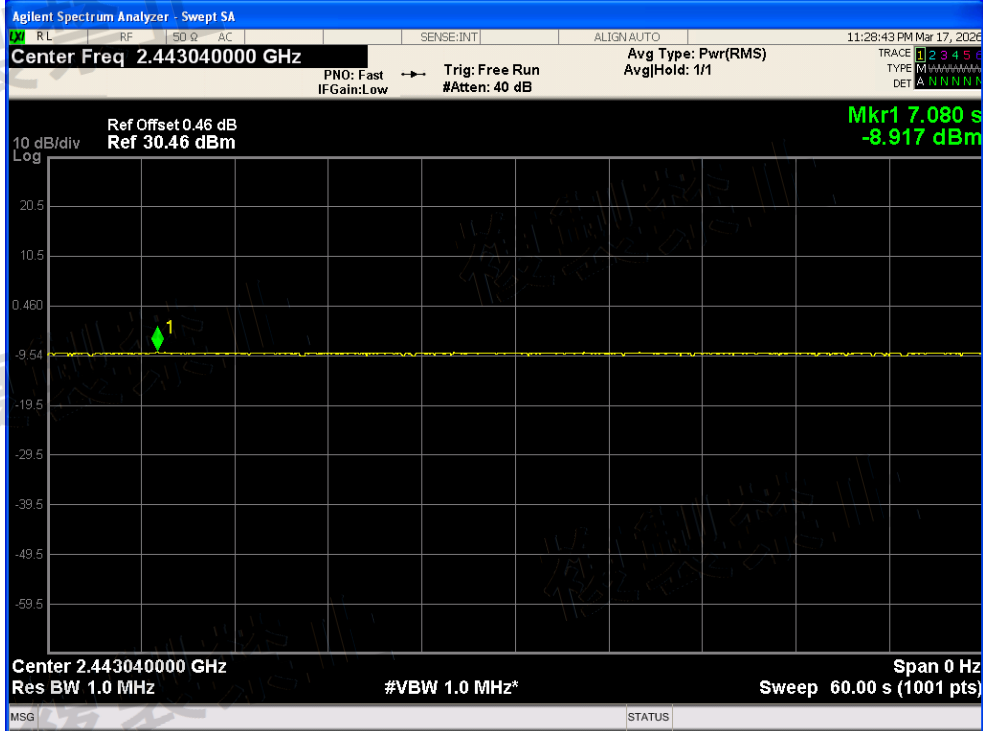
Power NVNT ax20 2412MHz Ant1 Zero Span



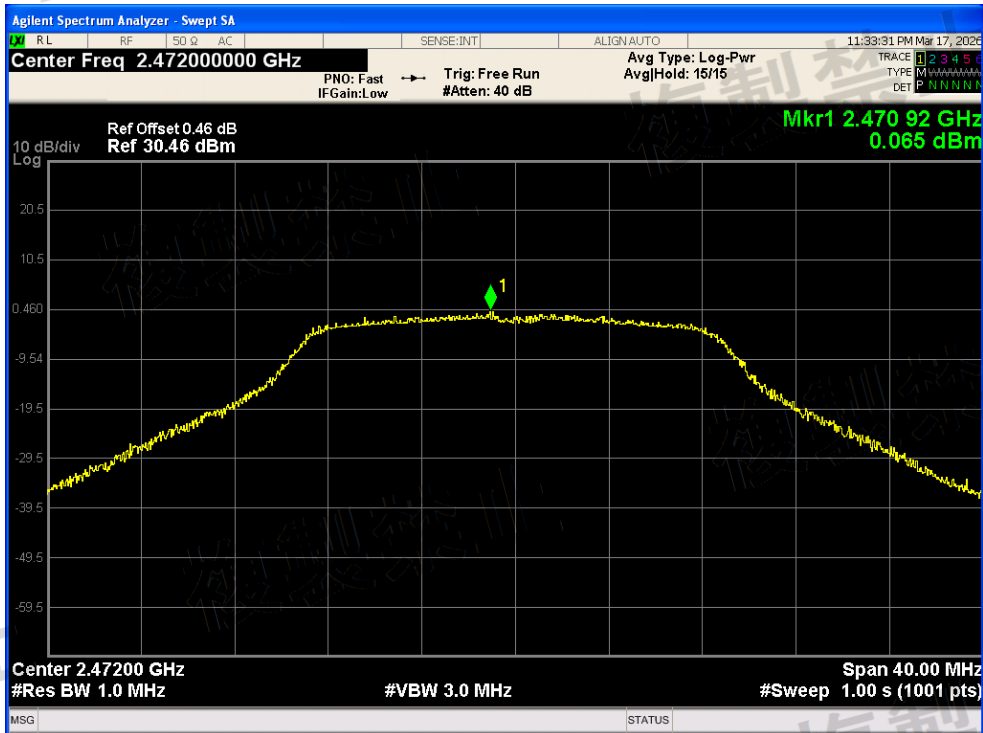
Power NVNT ax20 2442MHz Ant1 Pre Scan



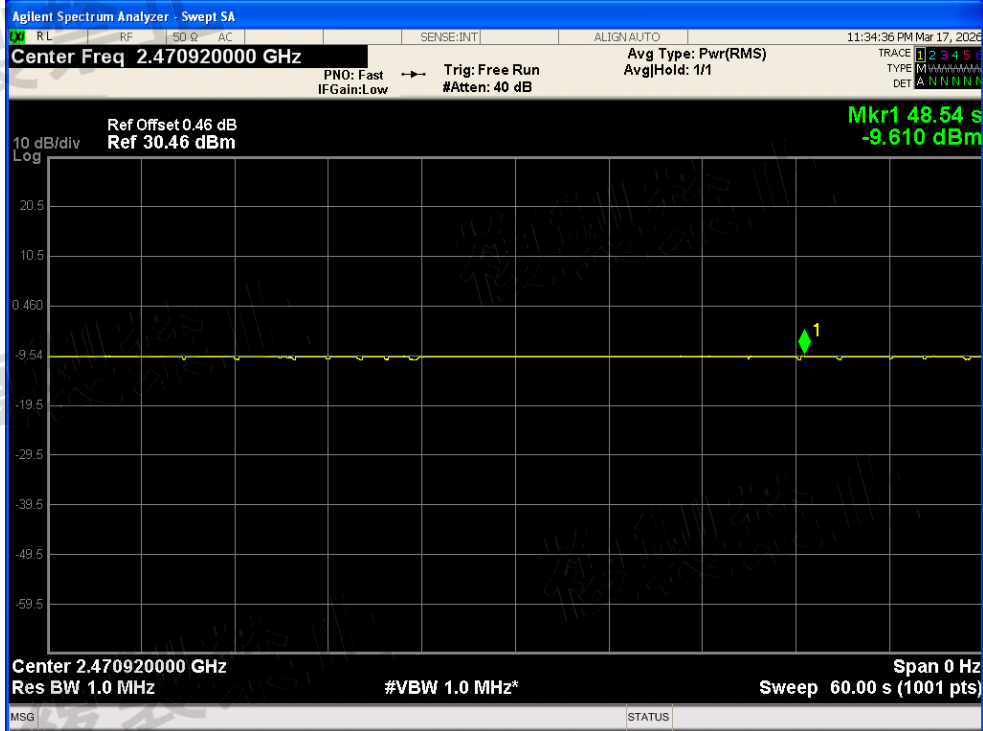
Power NVNT ax20 2442MHz Ant1 Zero Span



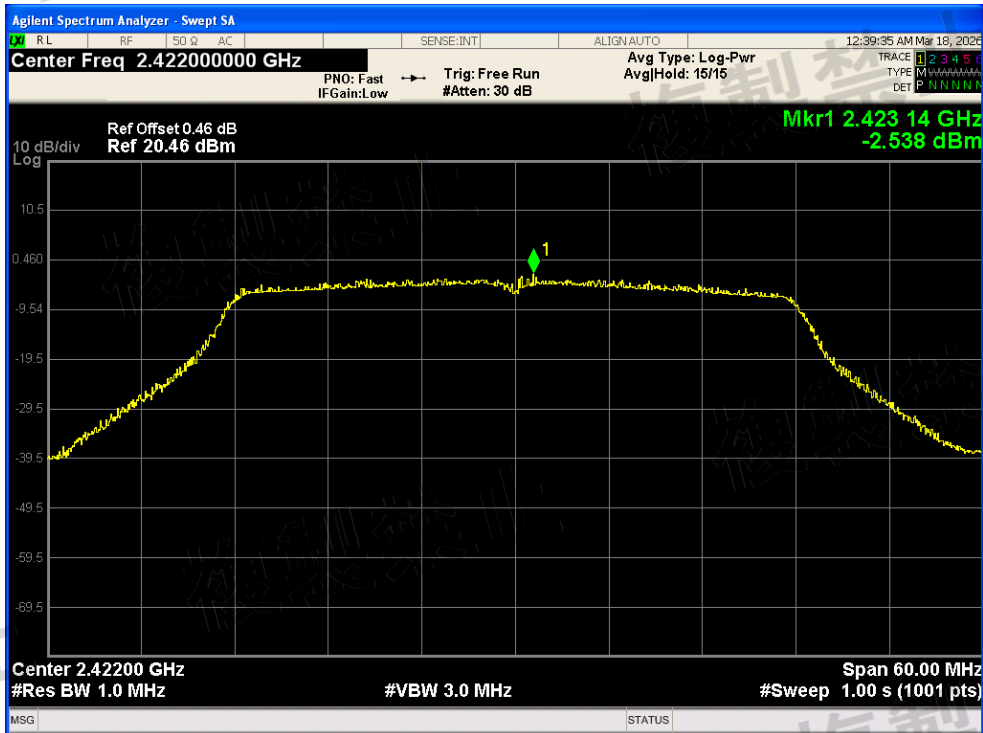
Power NVNT ax20 2472MHz Ant1 Pre Scan



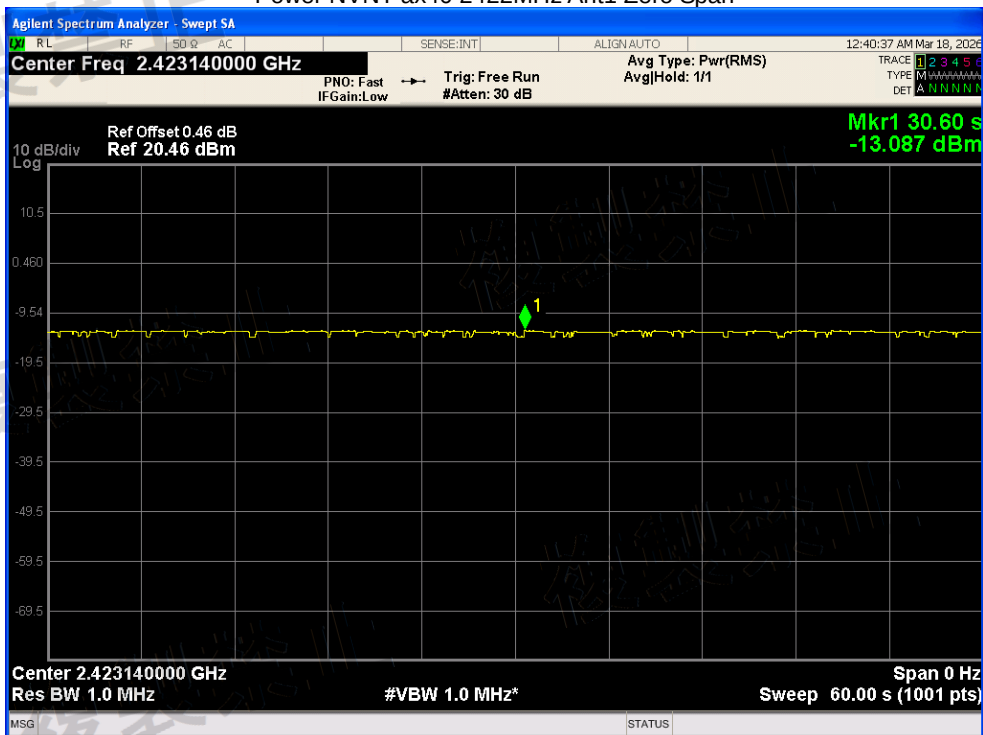
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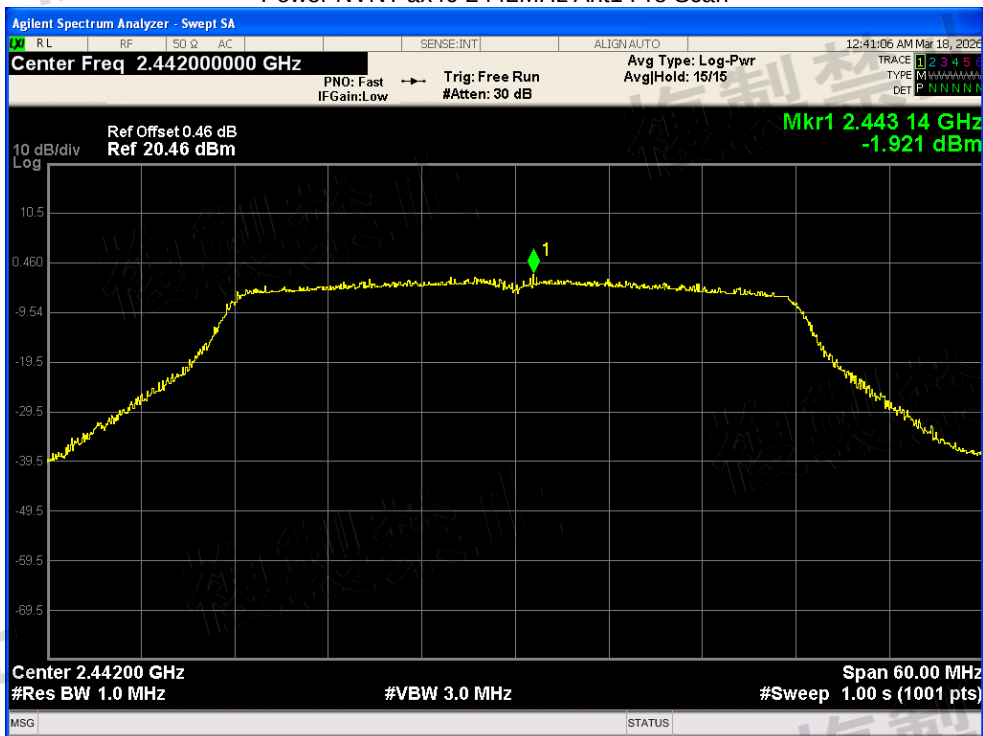
Power NVNT ax40 2422MHz Ant1 Pre Scan



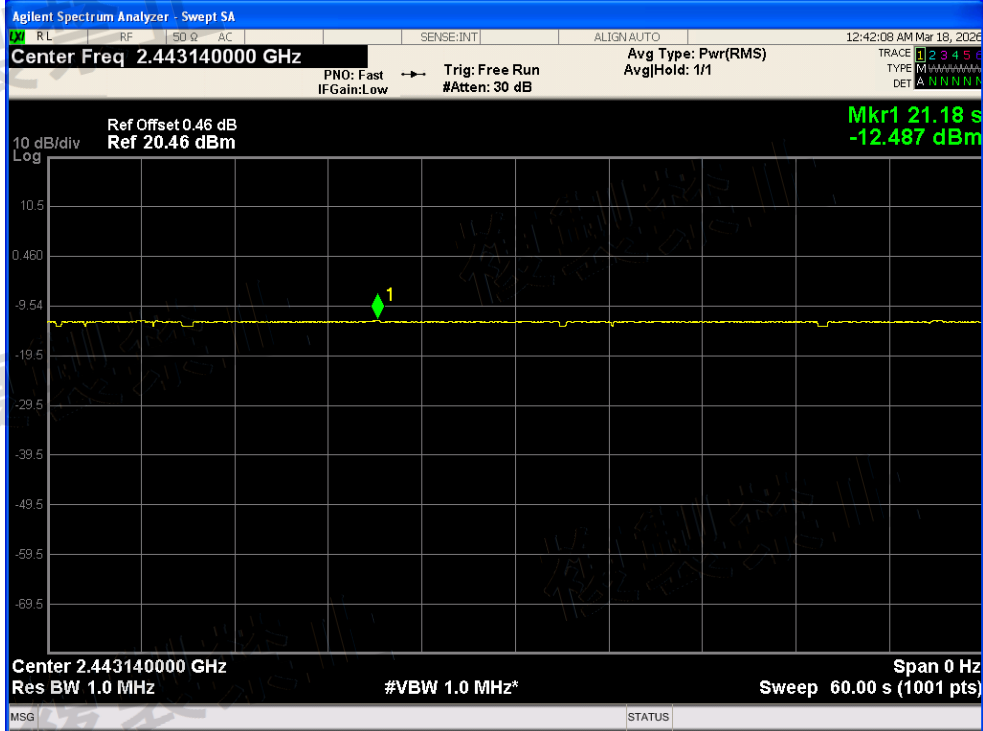
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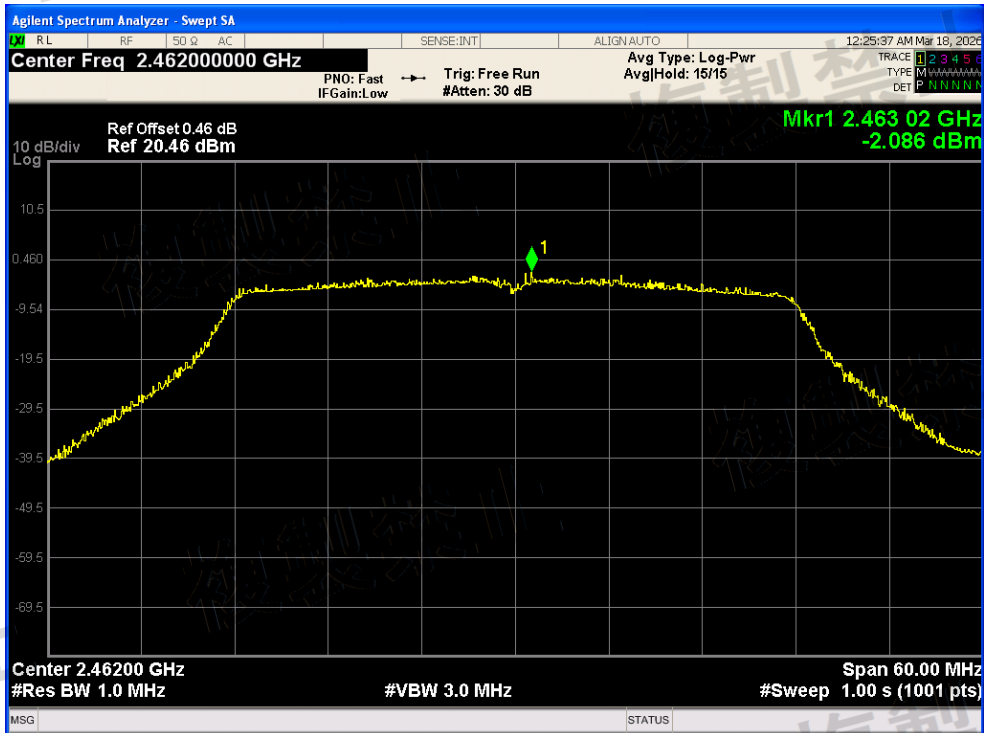
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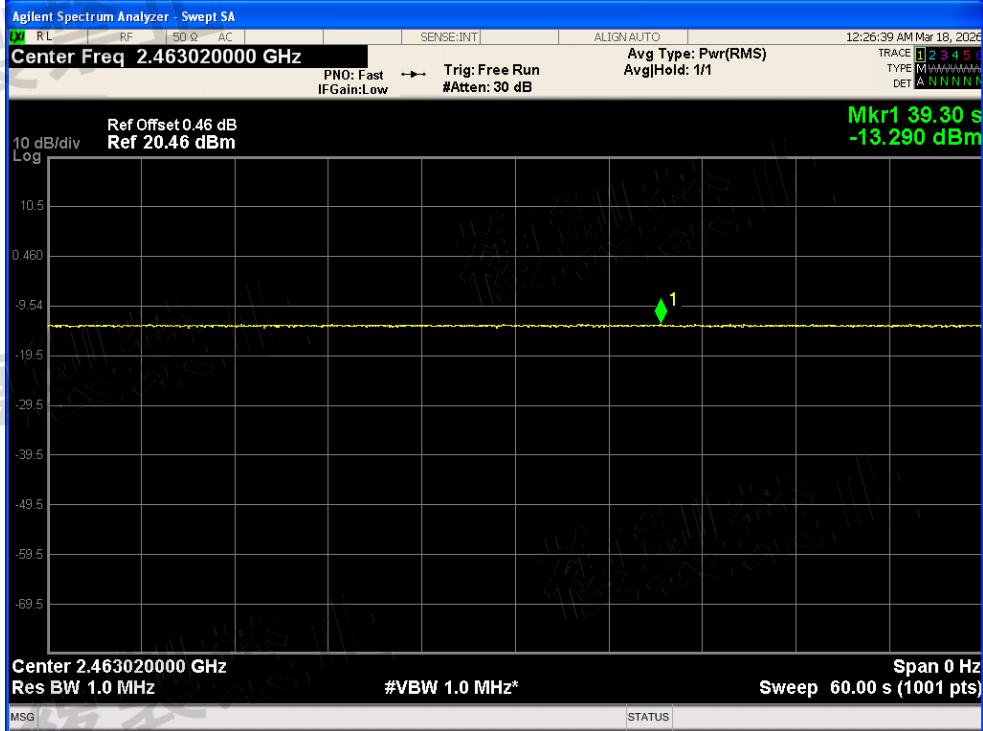
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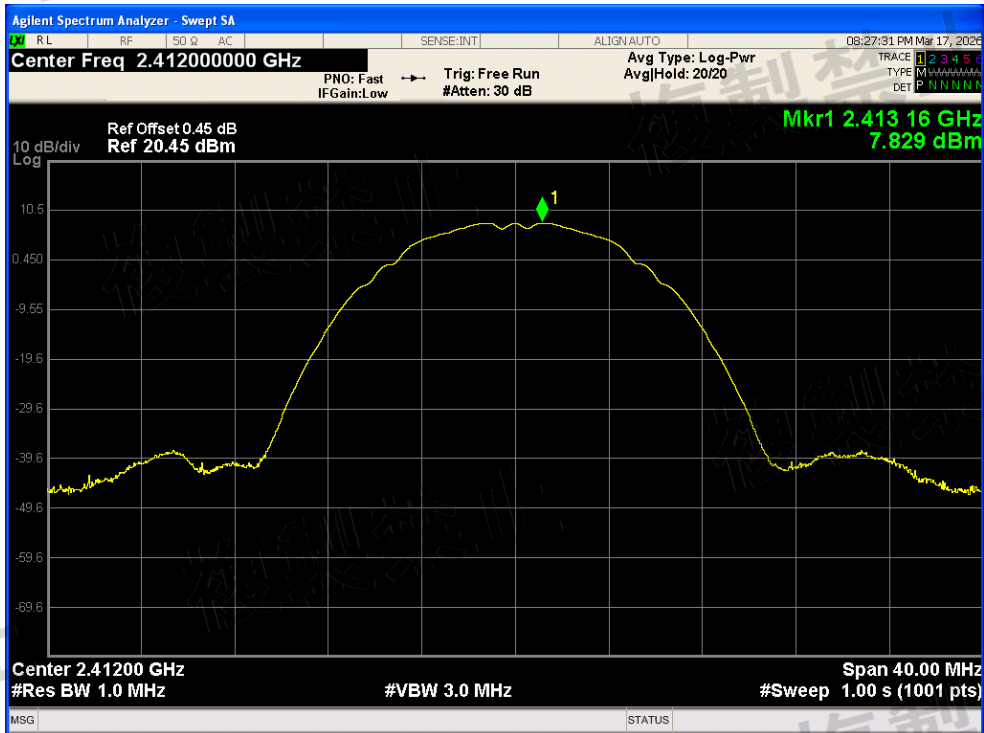
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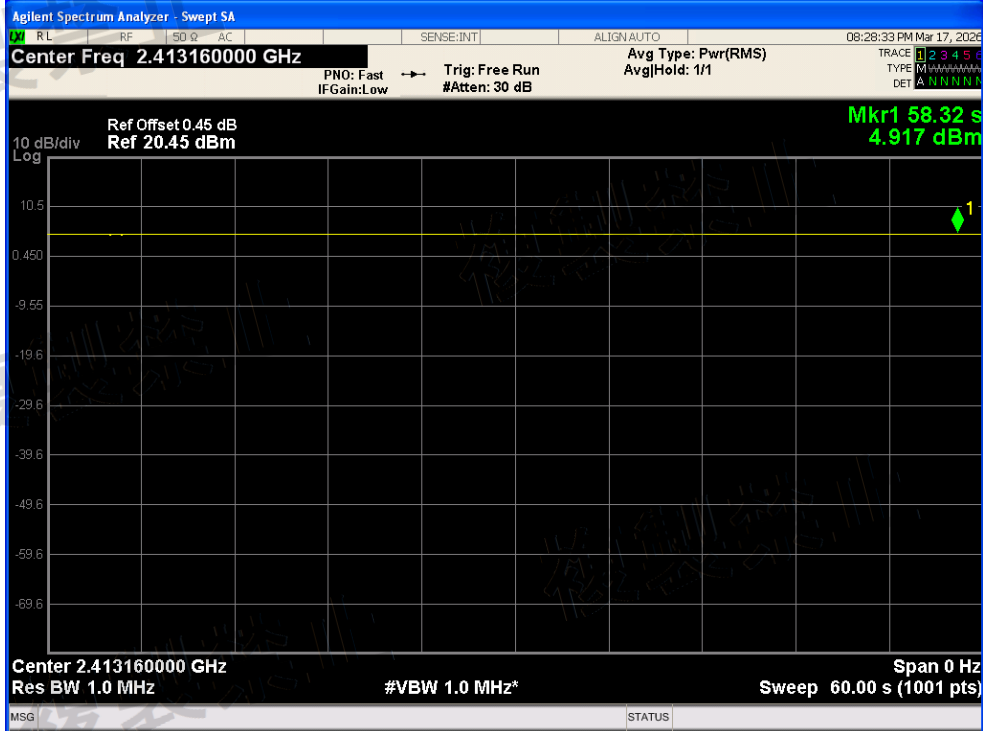
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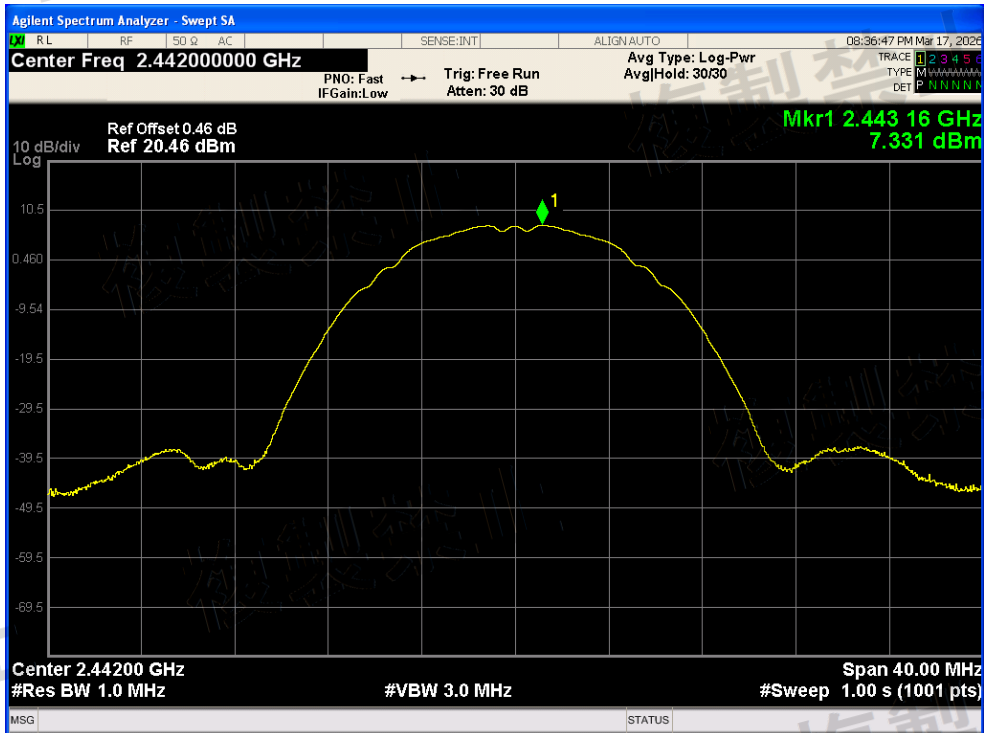
Power NVNT b 2412MHz Ant1 Pre Scan



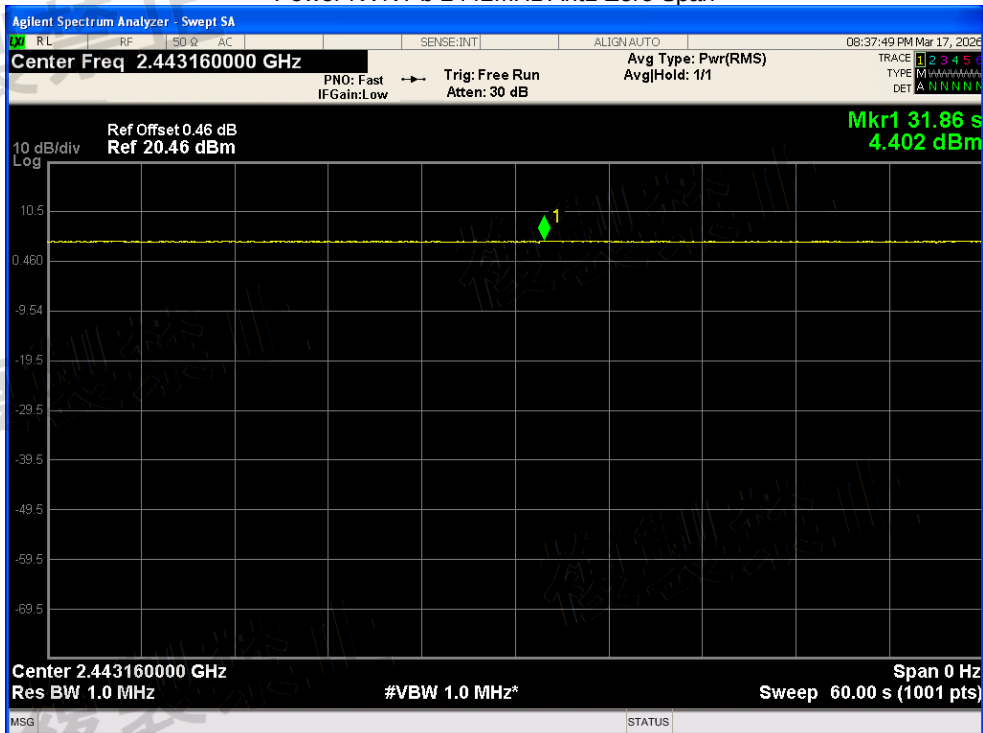
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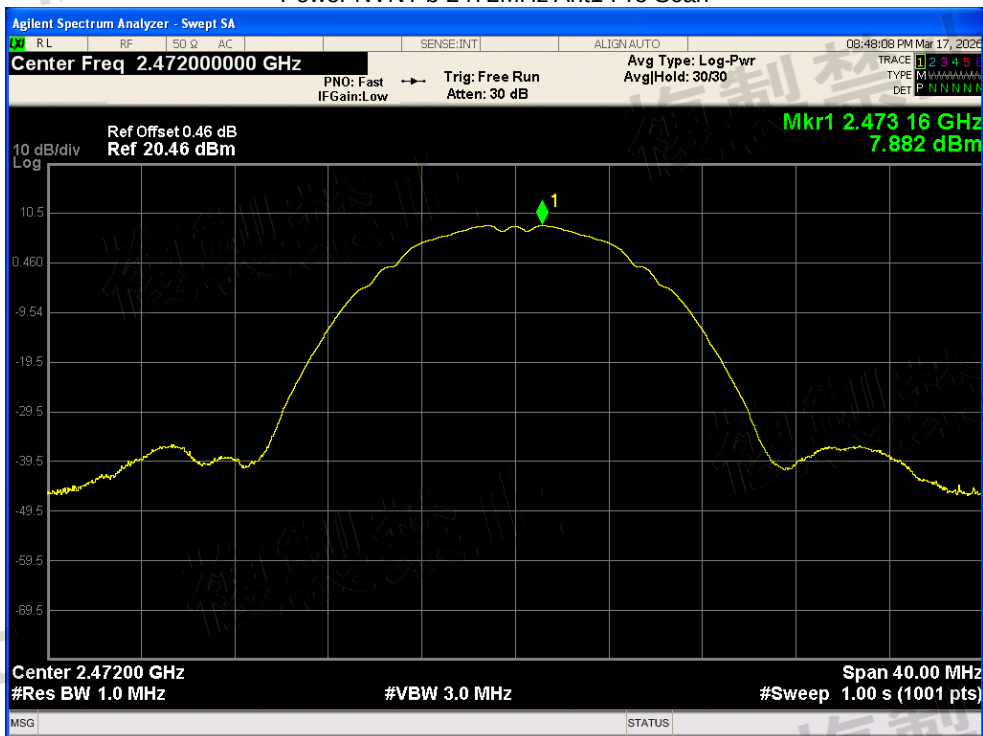
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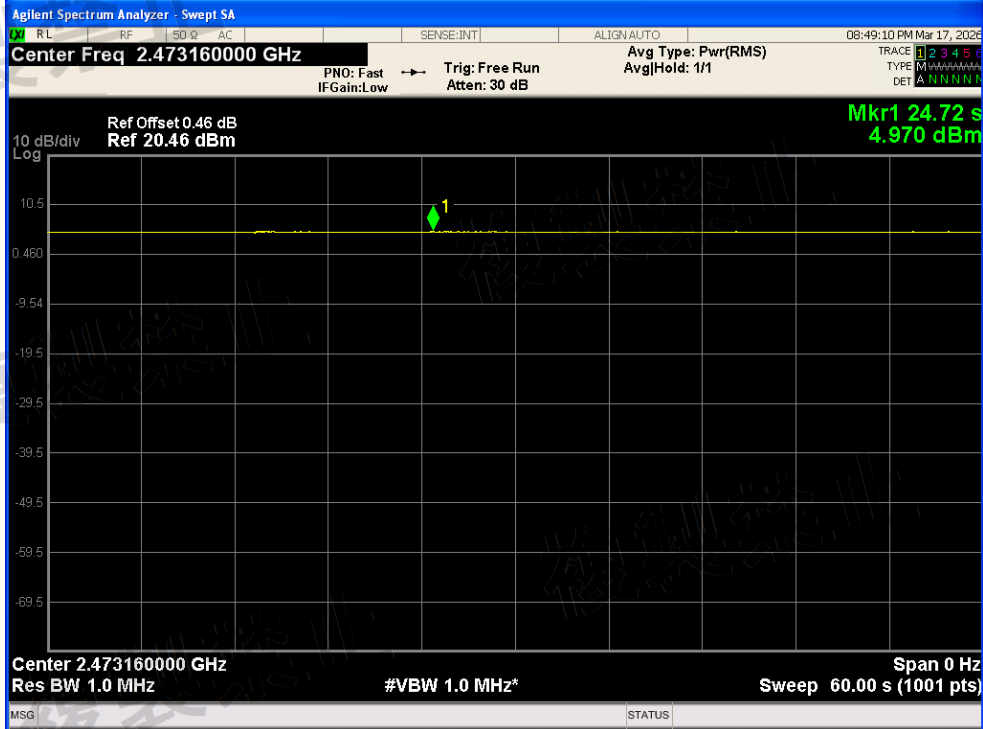
Power NVNT b 2442MHz Ant1 Zero Span



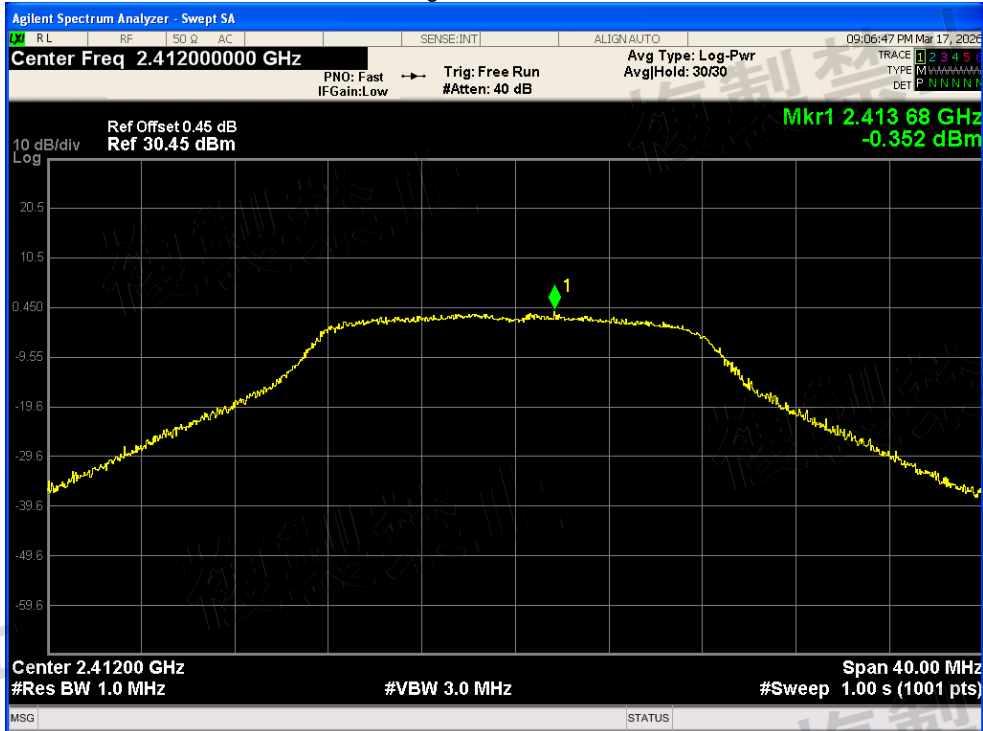
Power NVNT b 2472MHz Ant1 Pre Scan



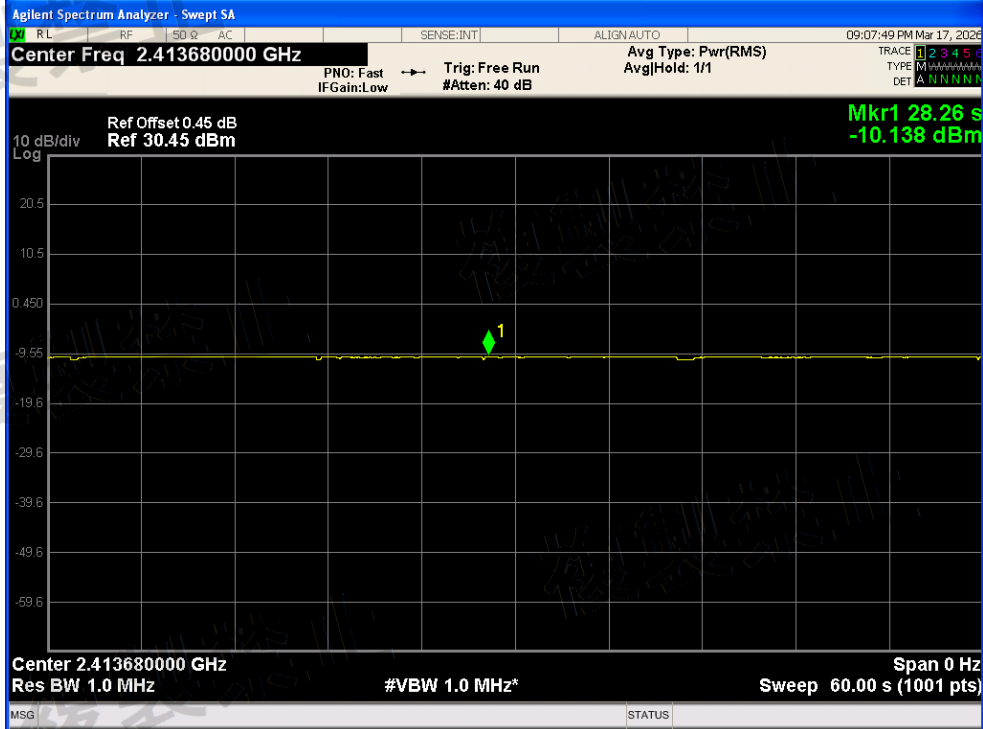
Power NVNT b 2472MHz Ant1 Zero Span



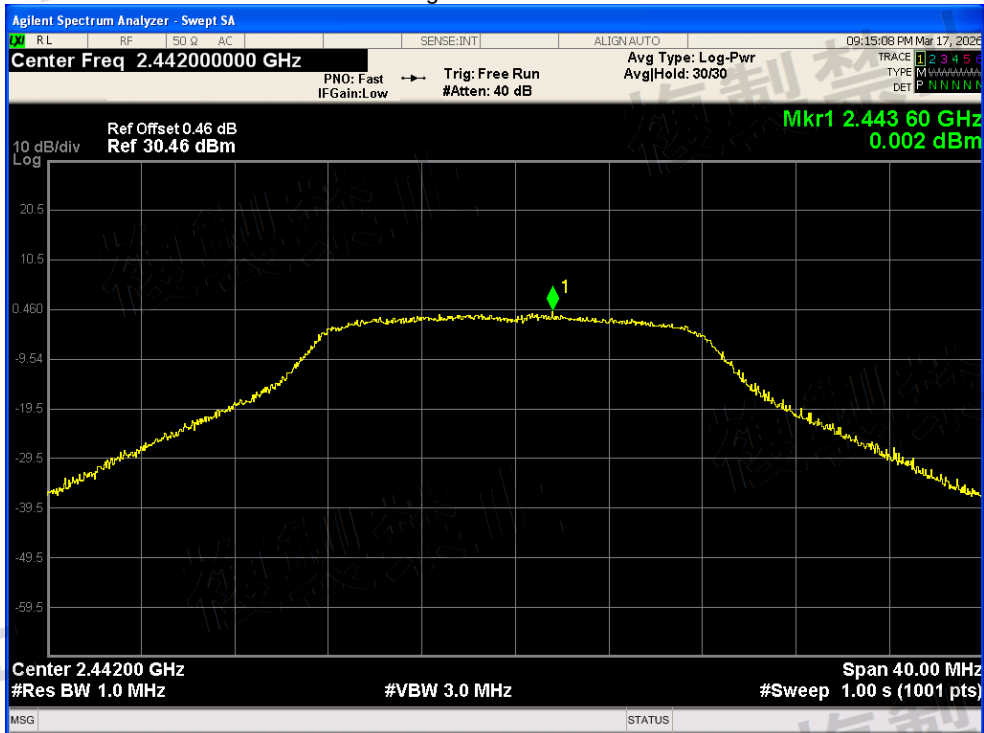
Power NVNT g 2412MHz Ant1 Pre Scan



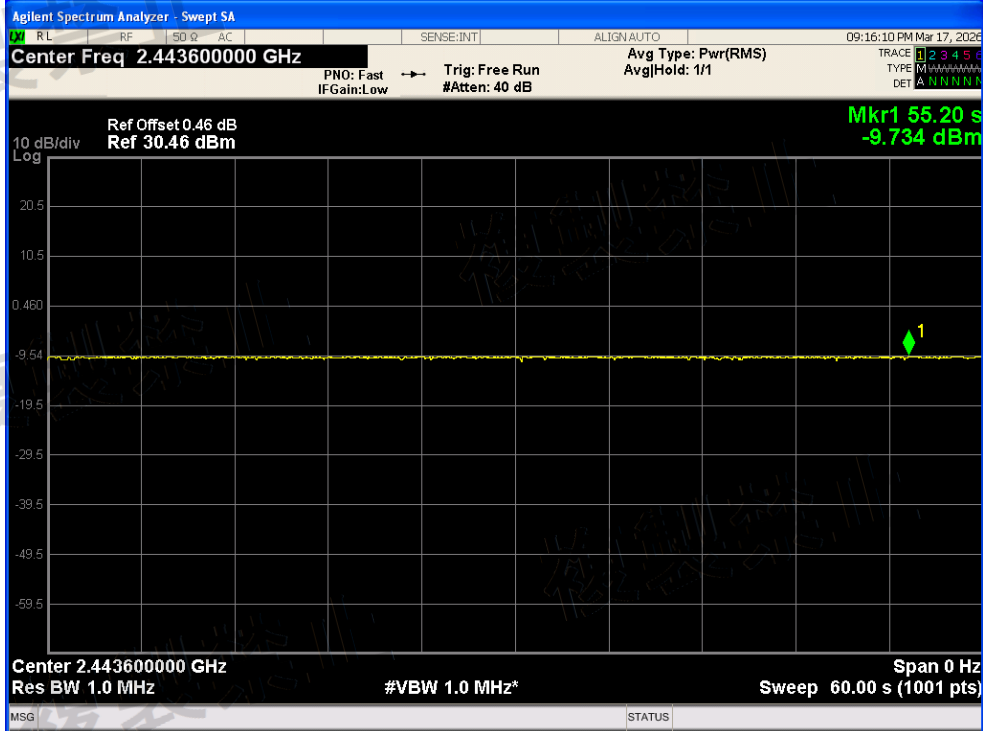
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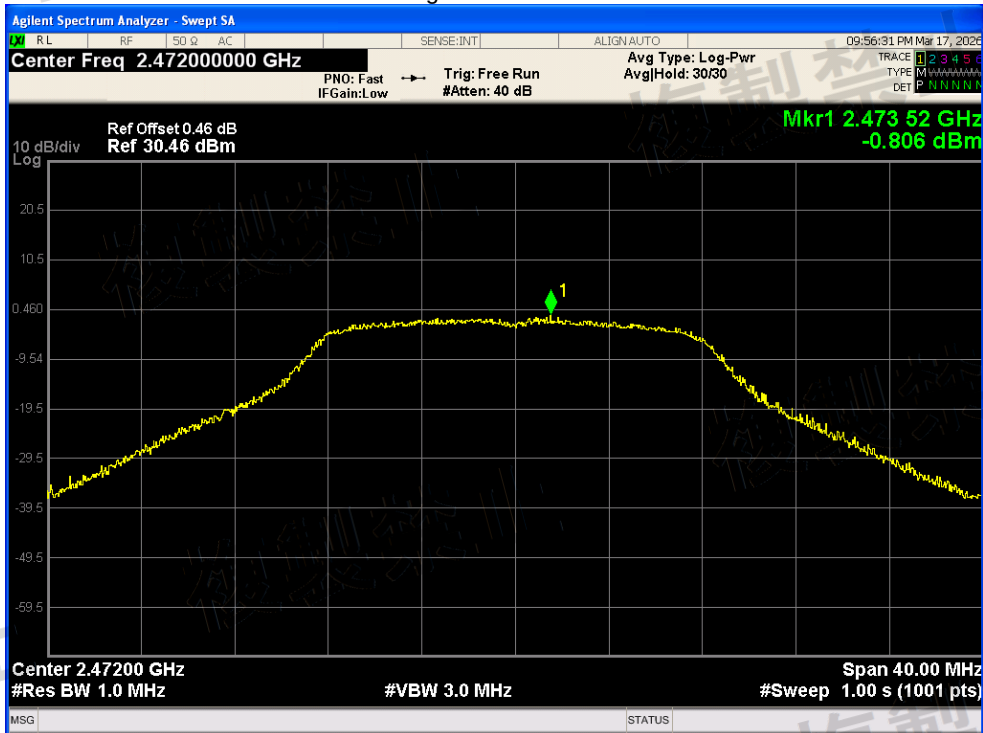
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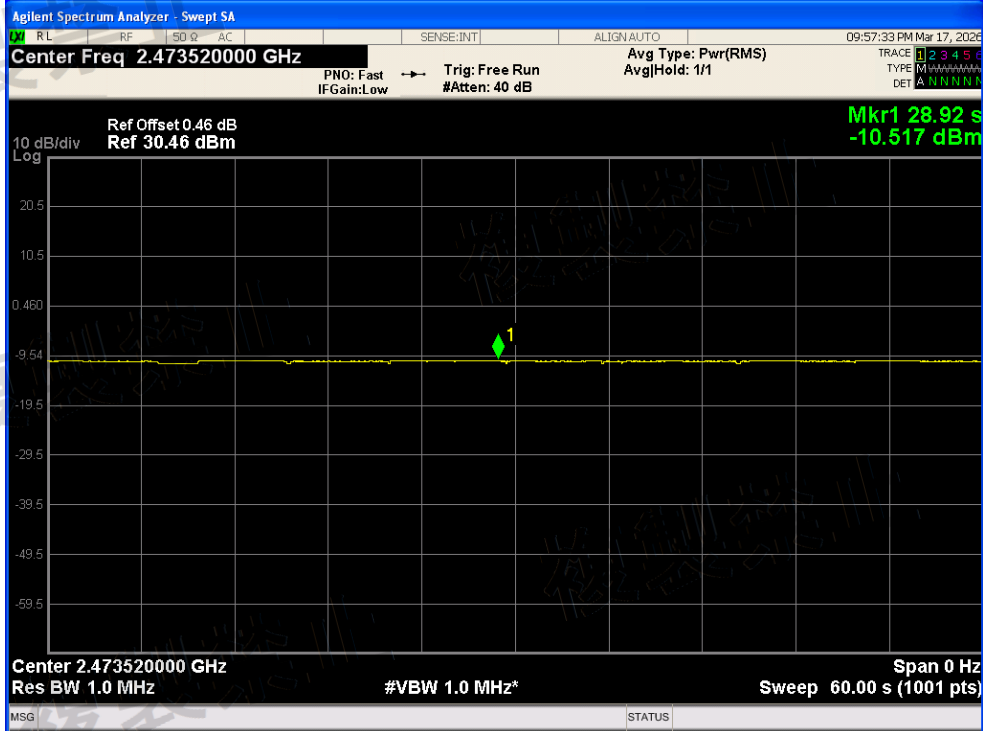
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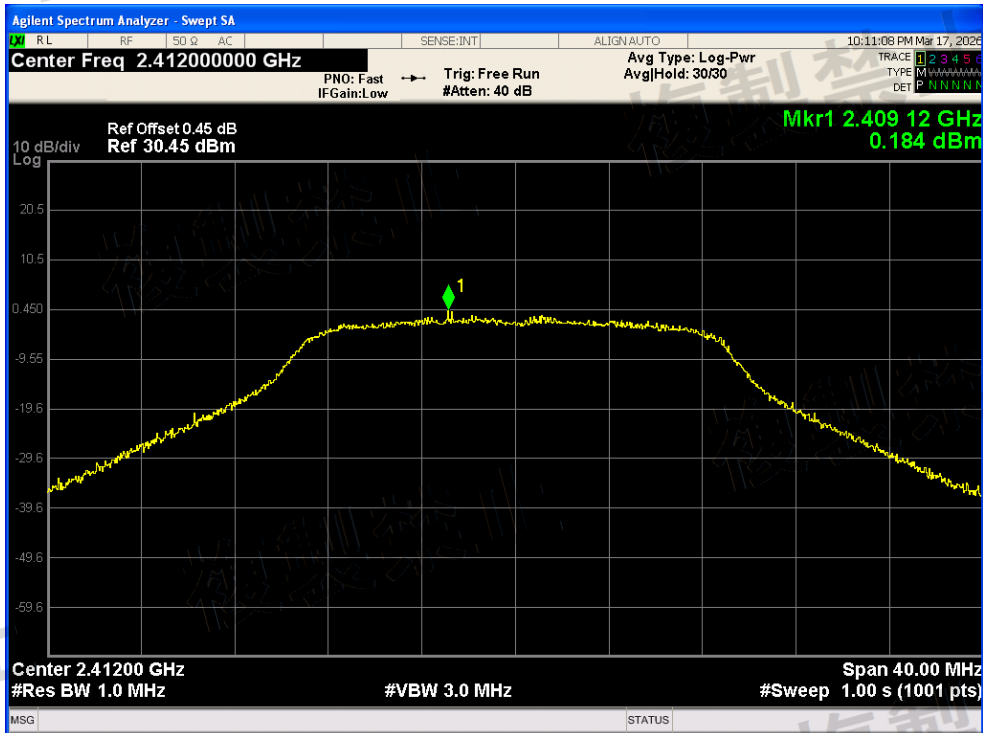
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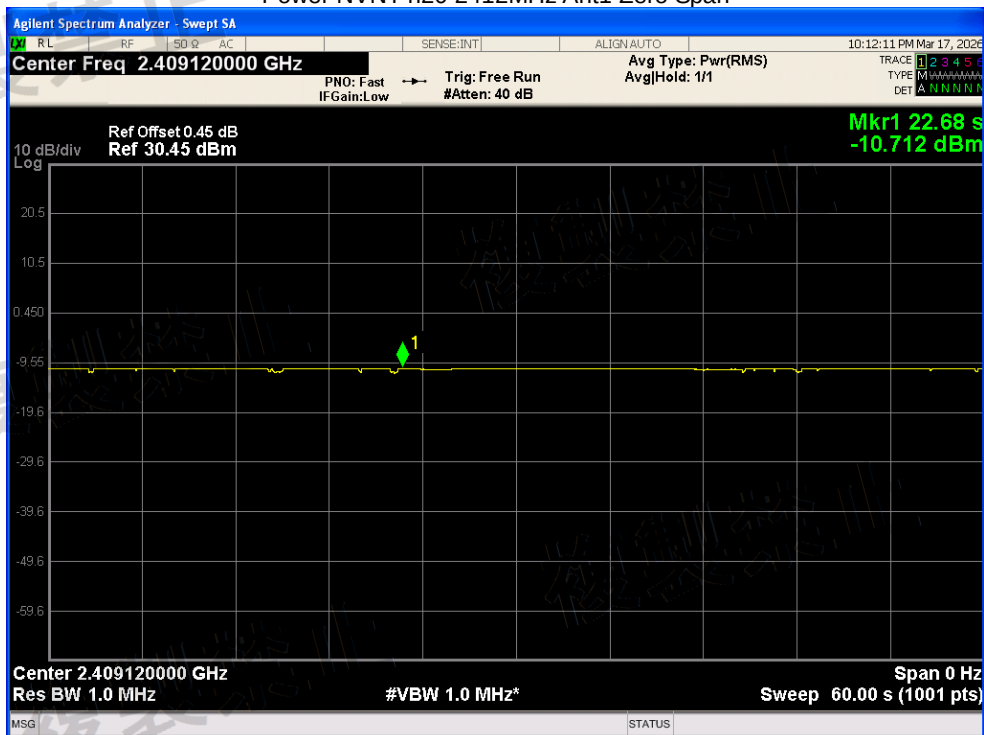
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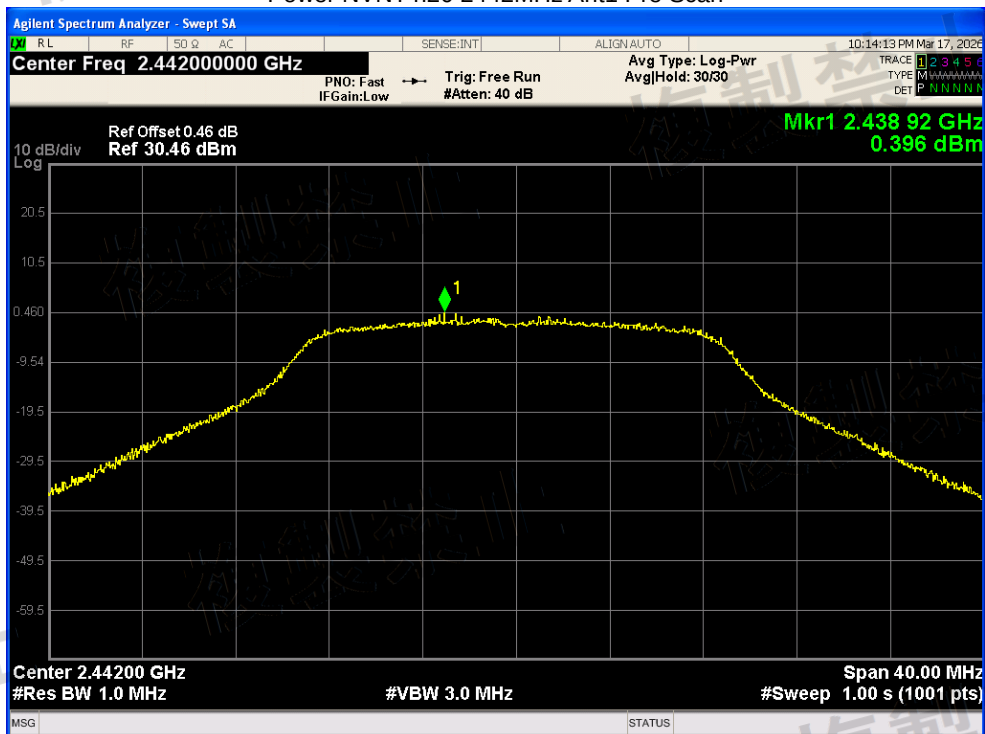
Power NVNT n20 2412MHz Ant1 Pre Scan



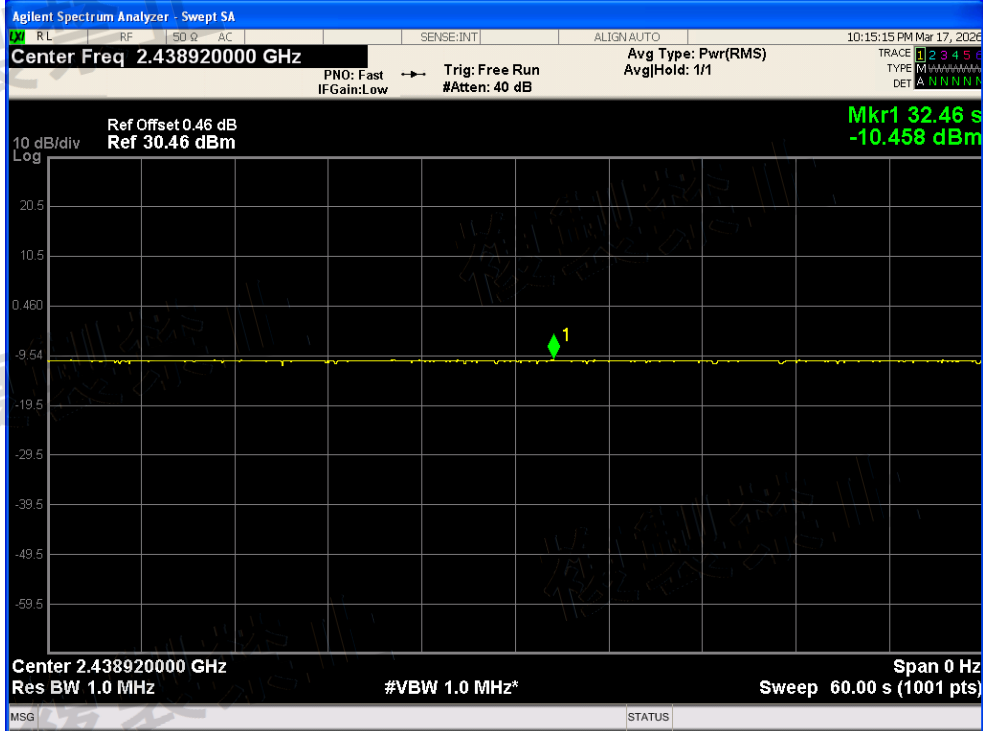
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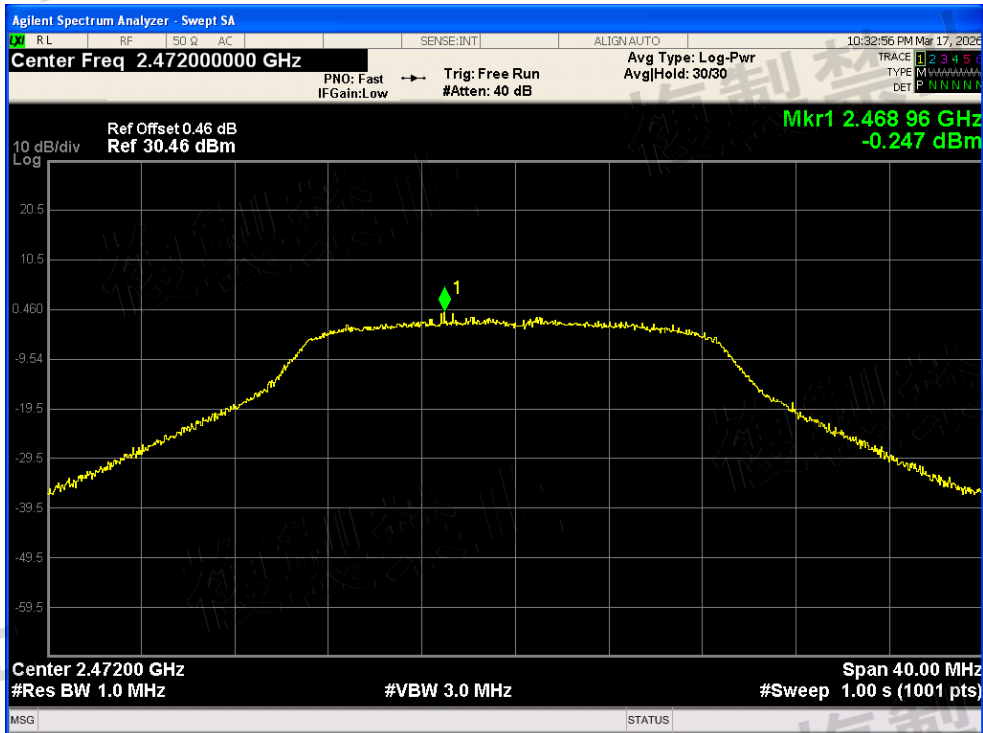
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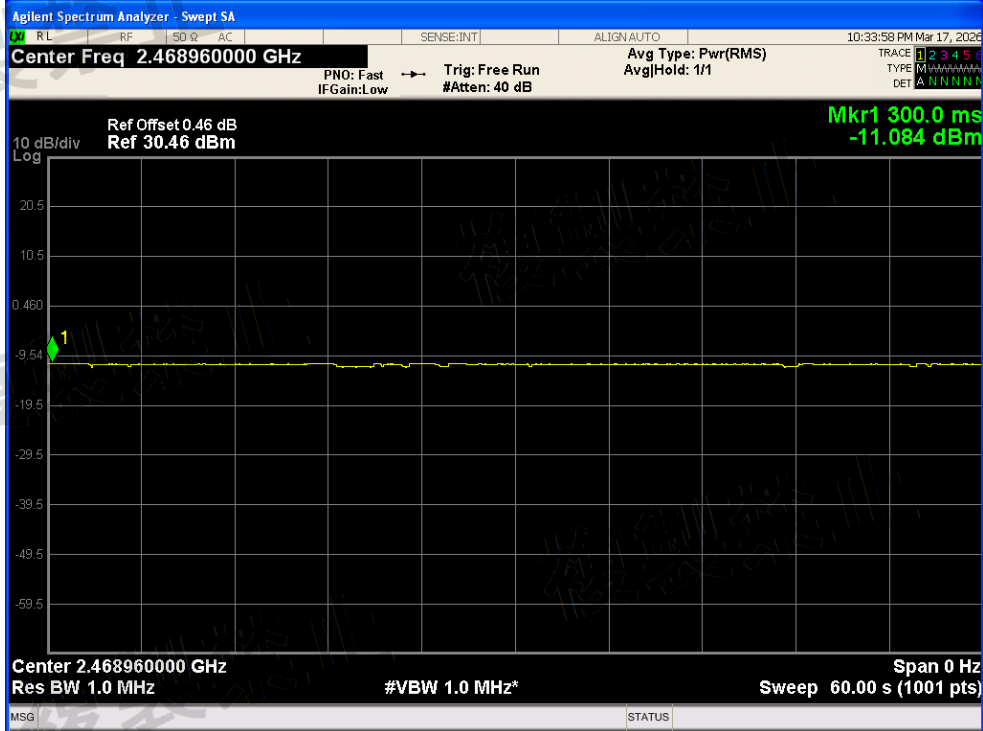
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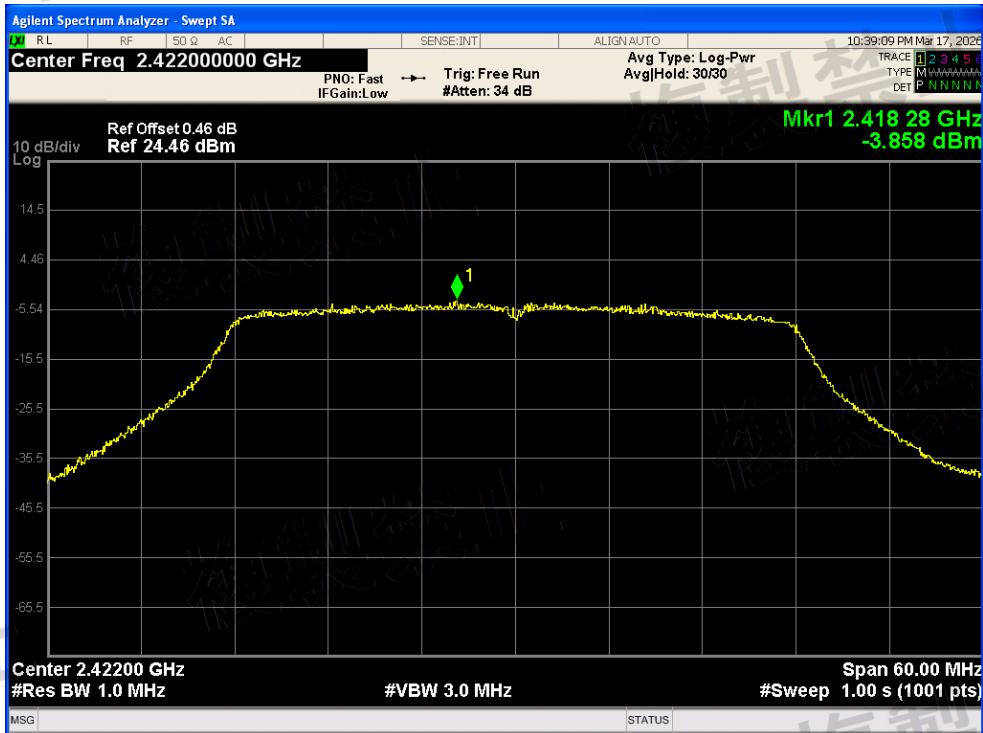
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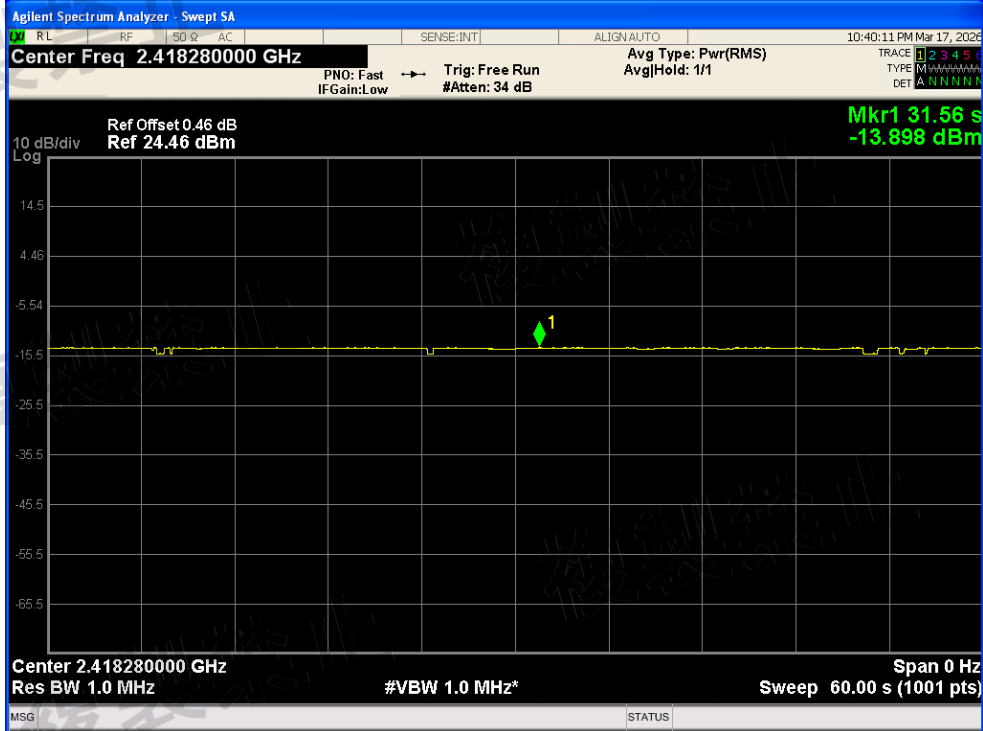
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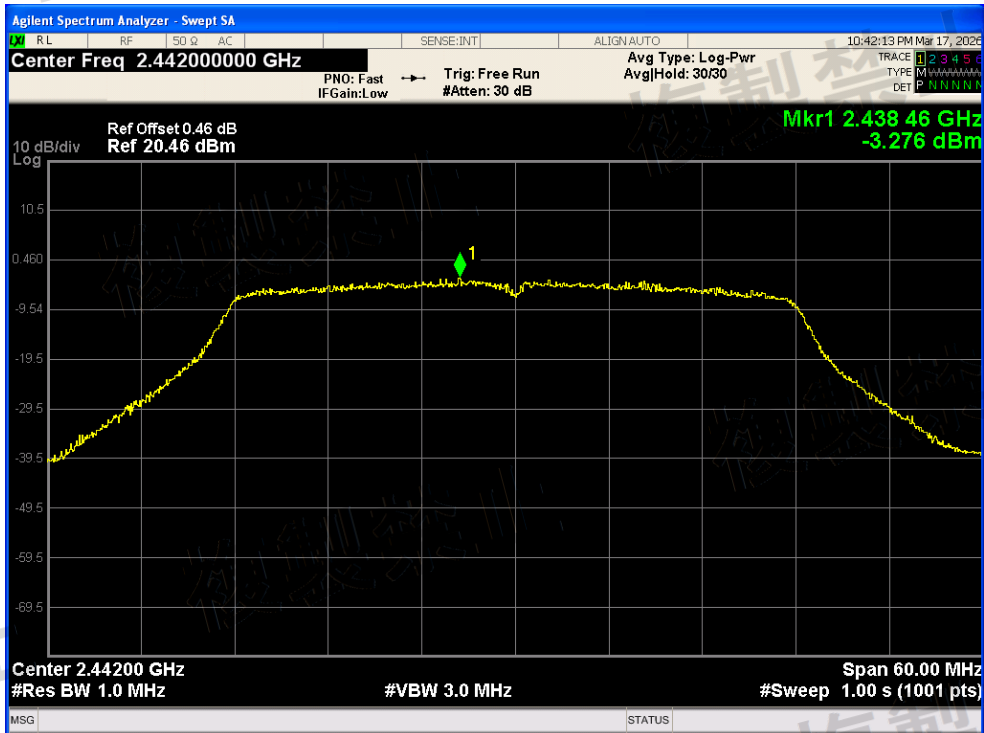
Power NVNT n40 2422MHz Ant1 Pre Scan



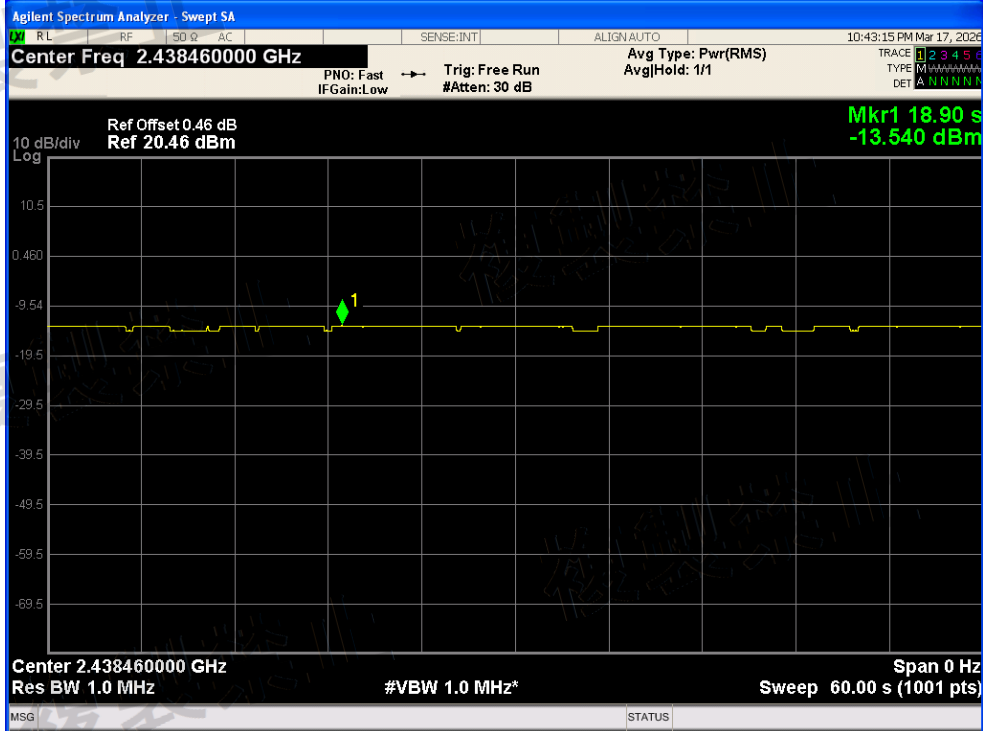
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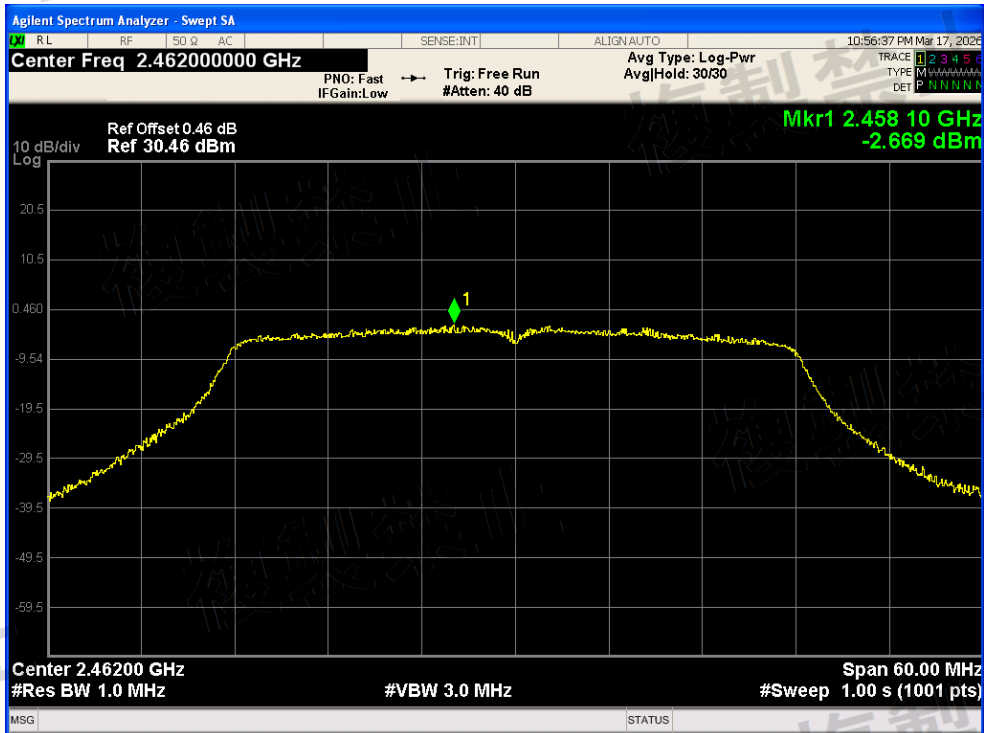
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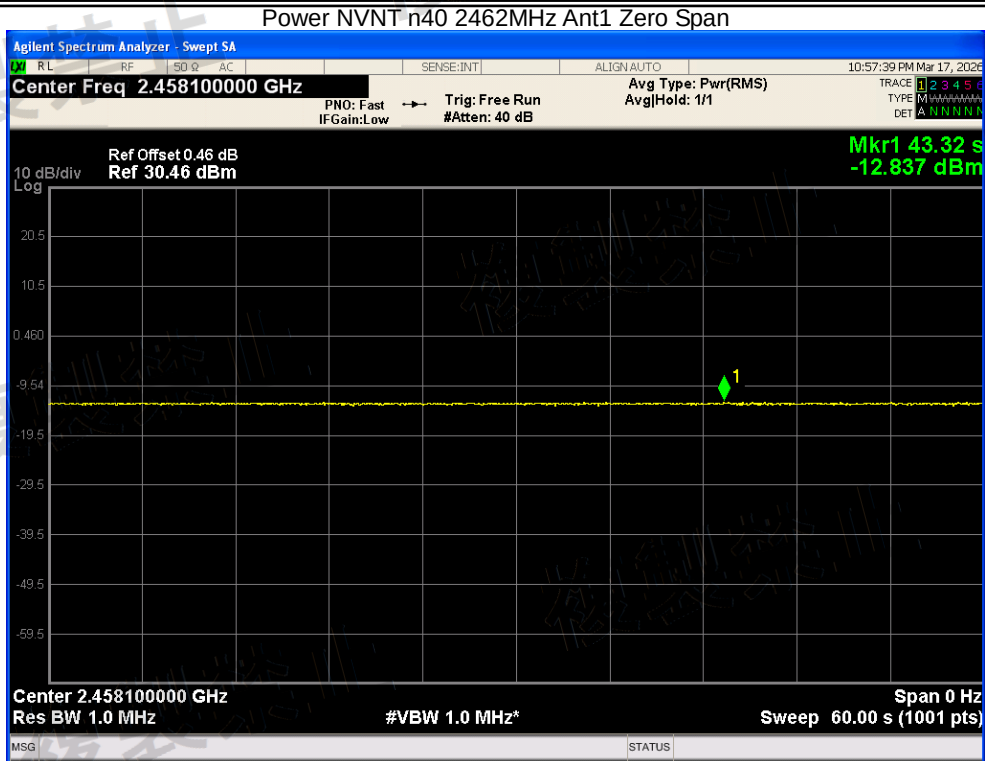


Power NVNT n40 2442MHz Ant1 Zero Span



Power NVNT n40 2462MHz Ant1 Pre Scan





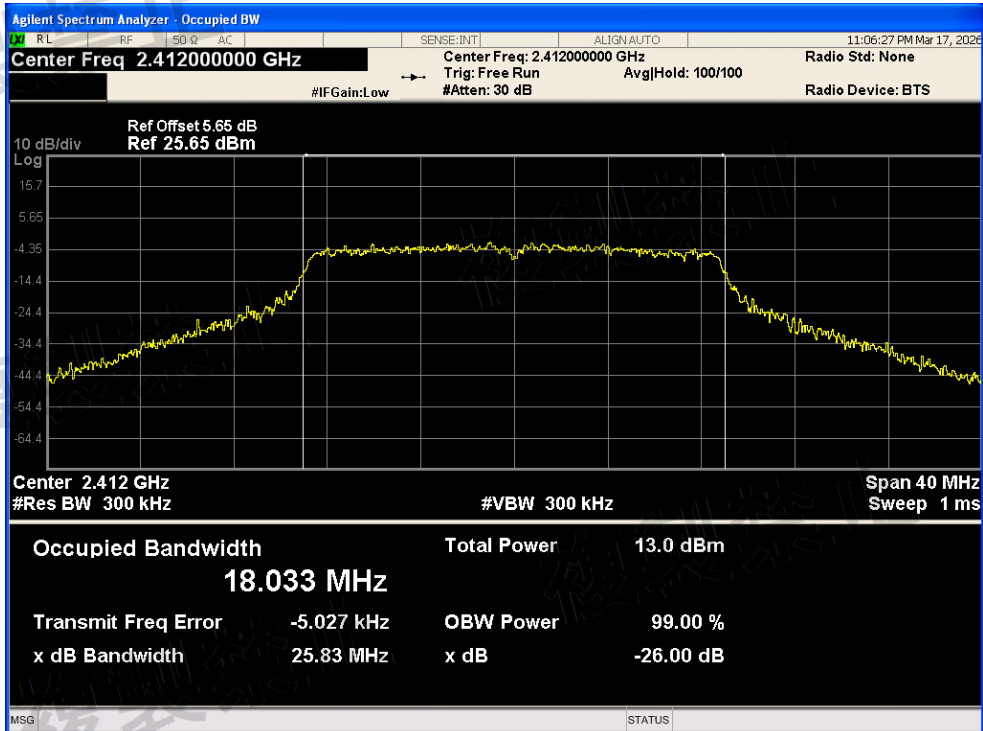
12.2 EIRP POWER

Condition	Mode	Frequency (MHz)	Antenna	Antenna Power (mW/MHz)	Gain (dBi)	EIRP Power (dBm/MHz)	Limit (dBm/MHz)	Verdict
NVNT	ax20	2412	Ant1	0.12	5.2	-4.013	12.14	Pass
NVNT	ax20	2442	Ant1	0.128	5.2	-3.717	12.14	Pass
NVNT	ax20	2472	Ant1	0.109	5.2	-4.41	12.14	Pass
NVNT	ax40	2422	Ant1	0.049	5.2	-7.887	9.13	Pass
NVNT	ax40	2442	Ant1	0.056	5.2	-7.287	9.13	Pass
NVNT	ax40	2462	Ant1	0.047	5.2	-8.09	9.13	Pass
NVNT	b	2412	Ant1	3.102	5.2	10.117	12.14	Pass
NVNT	b	2442	Ant1	2.755	5.2	9.602	12.14	Pass
NVNT	b	2472	Ant1	3.141	5.2	10.17	12.14	Pass
NVNT	g	2412	Ant1	0.097	5.2	-4.938	12.14	Pass
NVNT	g	2442	Ant1	0.106	5.2	-4.534	12.14	Pass
NVNT	g	2472	Ant1	0.089	5.2	-5.317	12.14	Pass
NVNT	n20	2412	Ant1	0.085	5.2	-5.512	12.14	Pass
NVNT	n20	2442	Ant1	0.09	5.2	-5.258	12.14	Pass
NVNT	n20	2472	Ant1	0.078	5.2	-5.884	12.14	Pass
NVNT	n40	2422	Ant1	0.041	5.2	-8.698	9.13	Pass
NVNT	n40	2442	Ant1	0.044	5.2	-8.34	9.13	Pass
NVNT	n40	2462	Ant1	0.052	5.2	-7.637	9.13	Pass

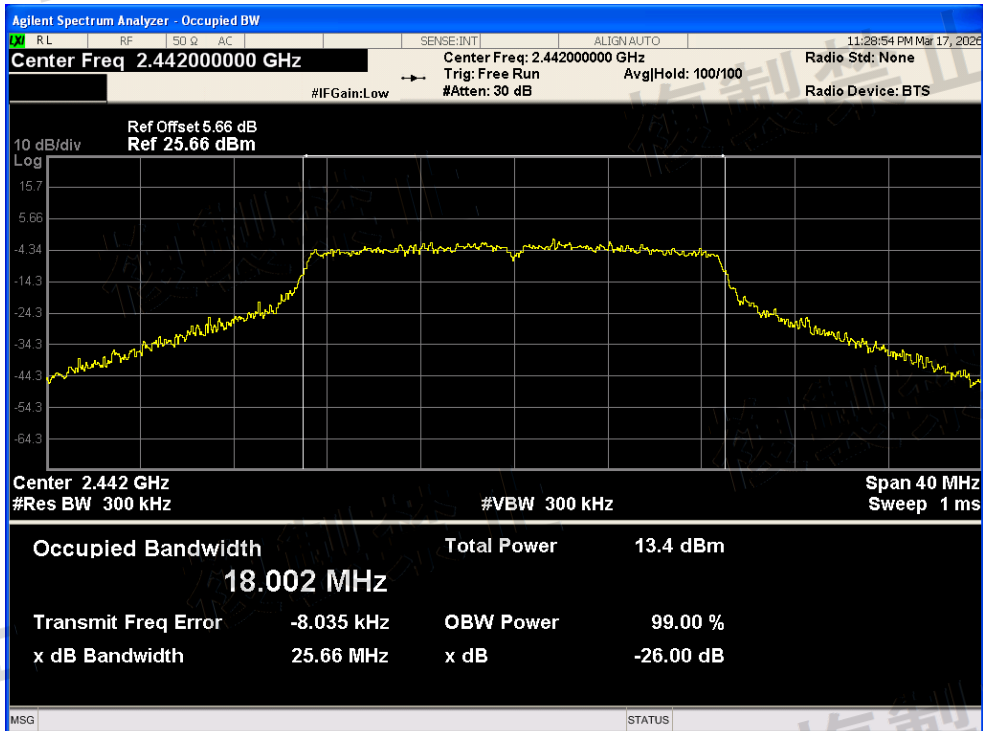
12.3 OCCUPIED CHANNEL BANDWIDTH

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	ax20	2412	Ant1	18.033
NVNT	ax20	2442	Ant1	18.002
NVNT	ax20	2472	Ant1	18.044
NVNT	ax40	2422	Ant1	36.24
NVNT	ax40	2442	Ant1	36.229
NVNT	ax40	2462	Ant1	36.186
NVNT	b	2412	Ant1	13.109
NVNT	b	2442	Ant1	13.138
NVNT	b	2472	Ant1	13.153
NVNT	g	2412	Ant1	16.939
NVNT	g	2442	Ant1	16.919
NVNT	g	2472	Ant1	16.944
NVNT	n20	2412	Ant1	17.963
NVNT	n20	2442	Ant1	18.037
NVNT	n20	2472	Ant1	18.06
NVNT	n40	2422	Ant1	36.225
NVNT	n40	2442	Ant1	36.188
NVNT	n40	2462	Ant1	36.18

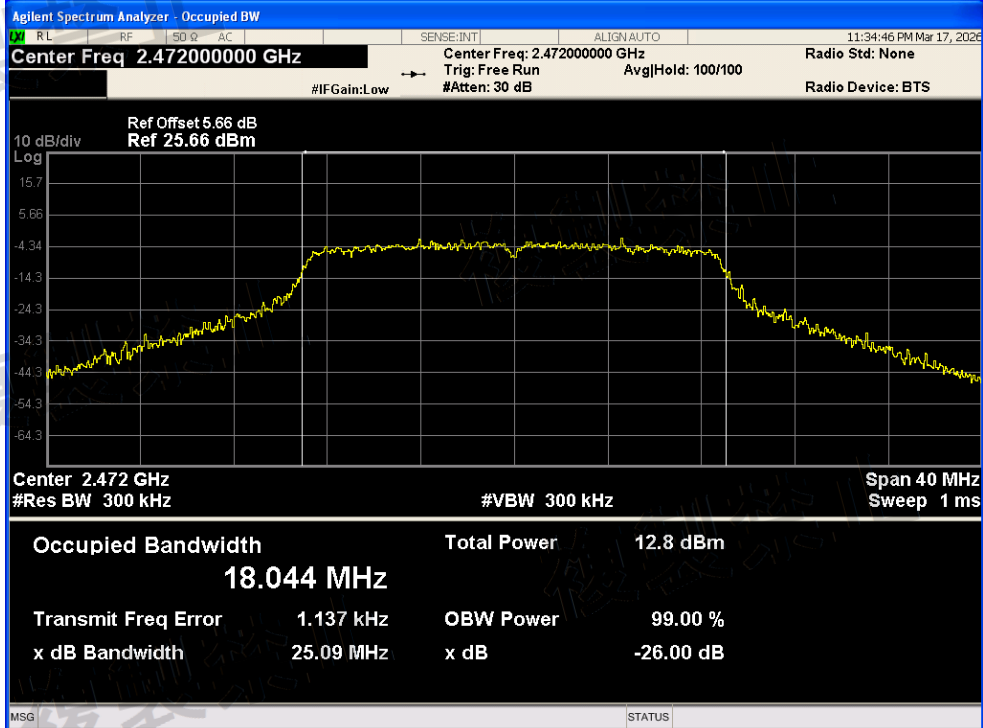
OBW NVNT ax20 2412MHz Ant1



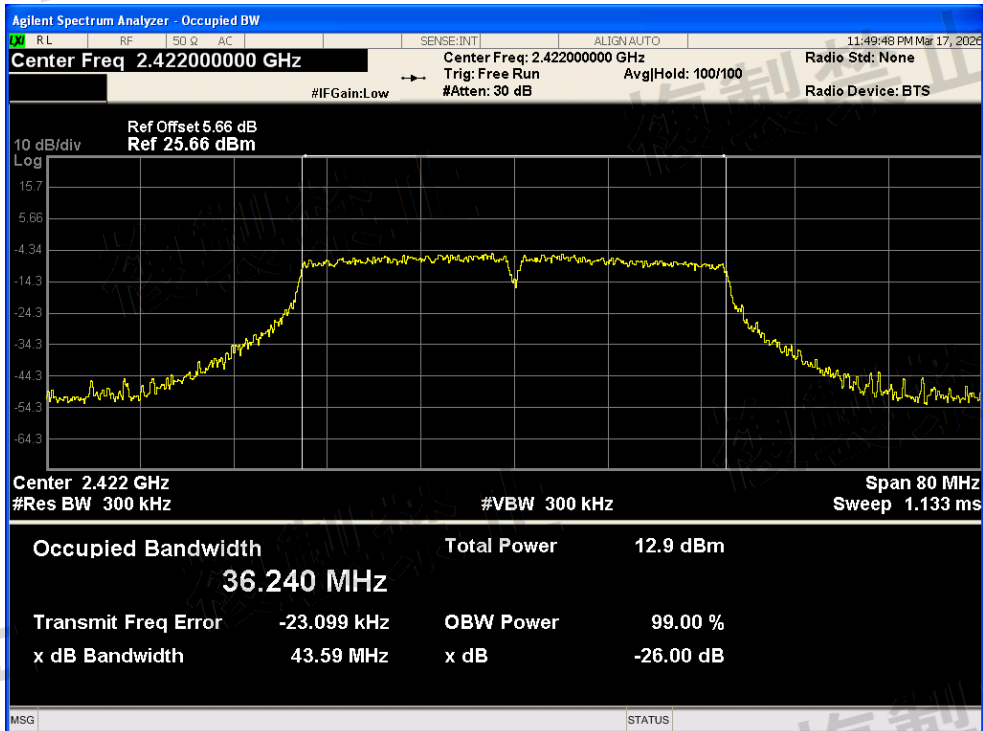
OBW NVNT ax20 2442MHz Ant1



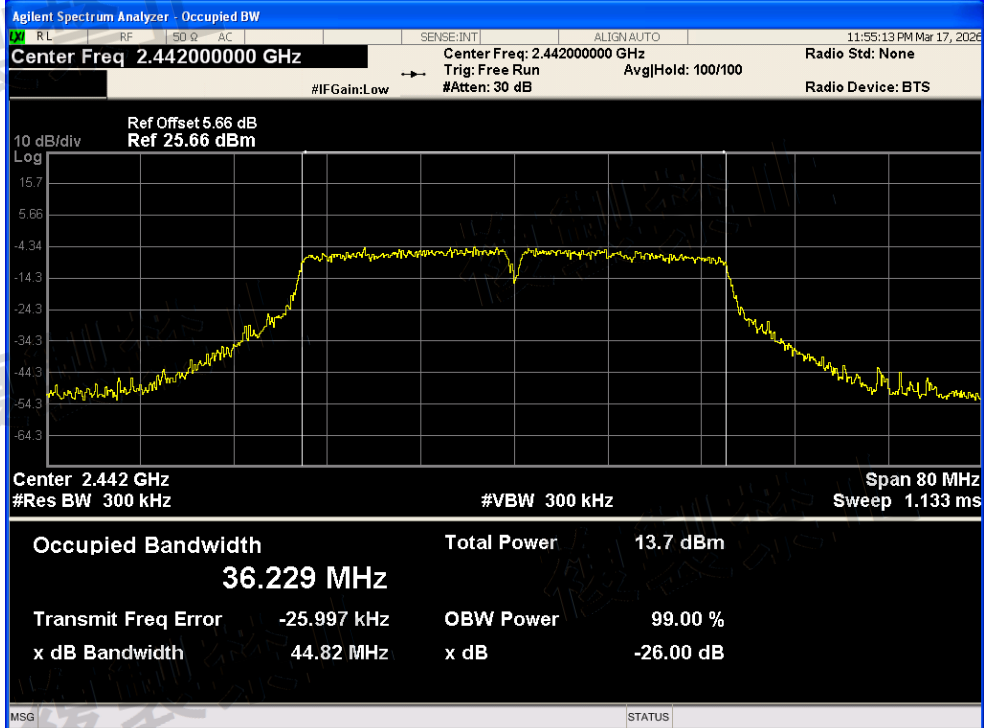
OBW NVNT ax20 2472MHz Ant1



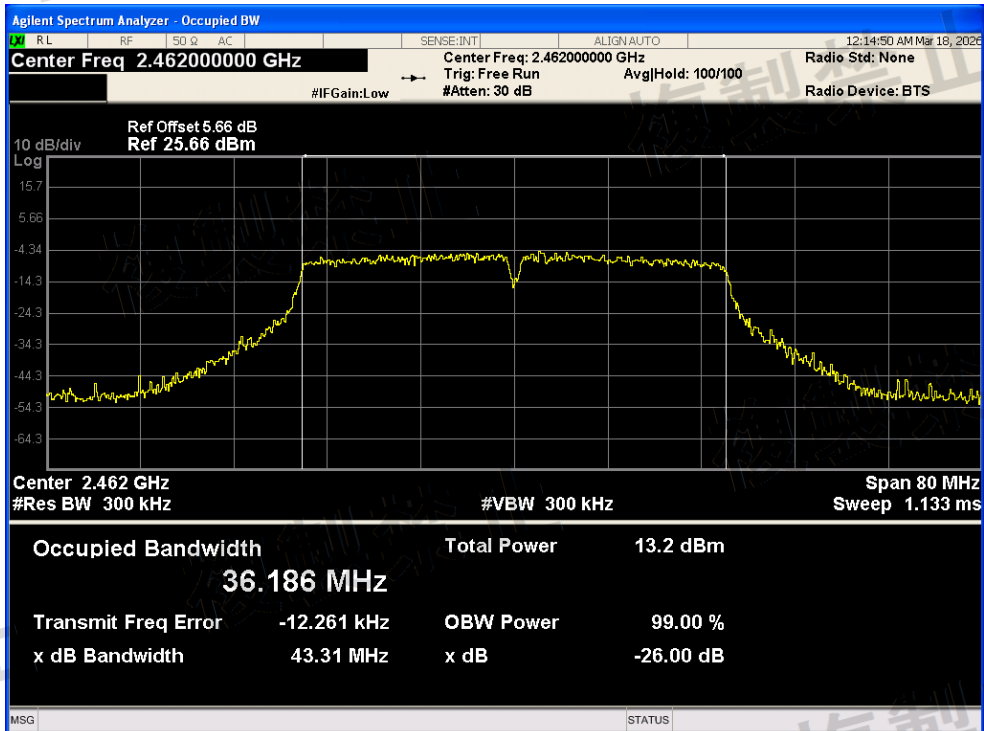
OBW NVNT ax40 2422MHz Ant1



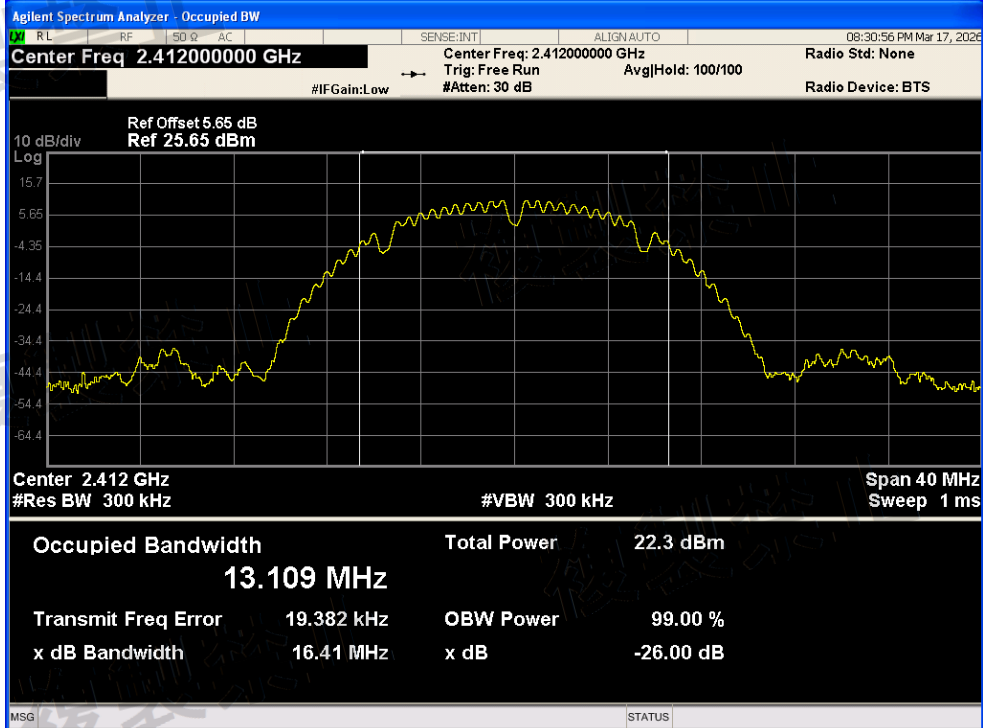
OBW NVNT ax40 2442MHz Ant1



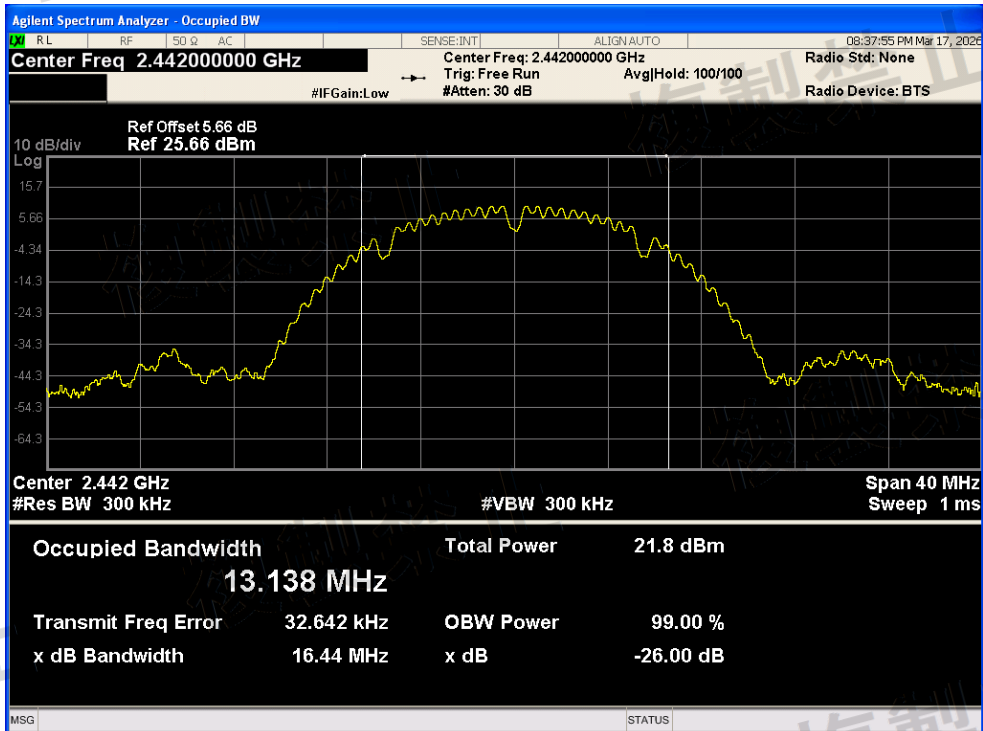
OBW NVNT ax40 2462MHz Ant1



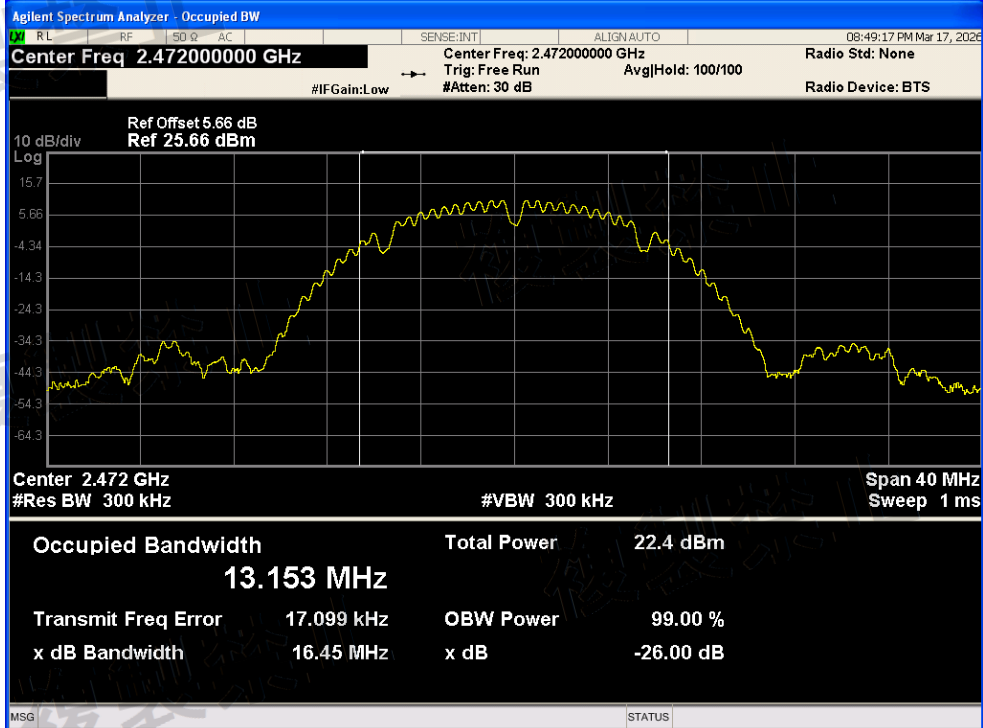
OBW NVNT b 2412MHz Ant1



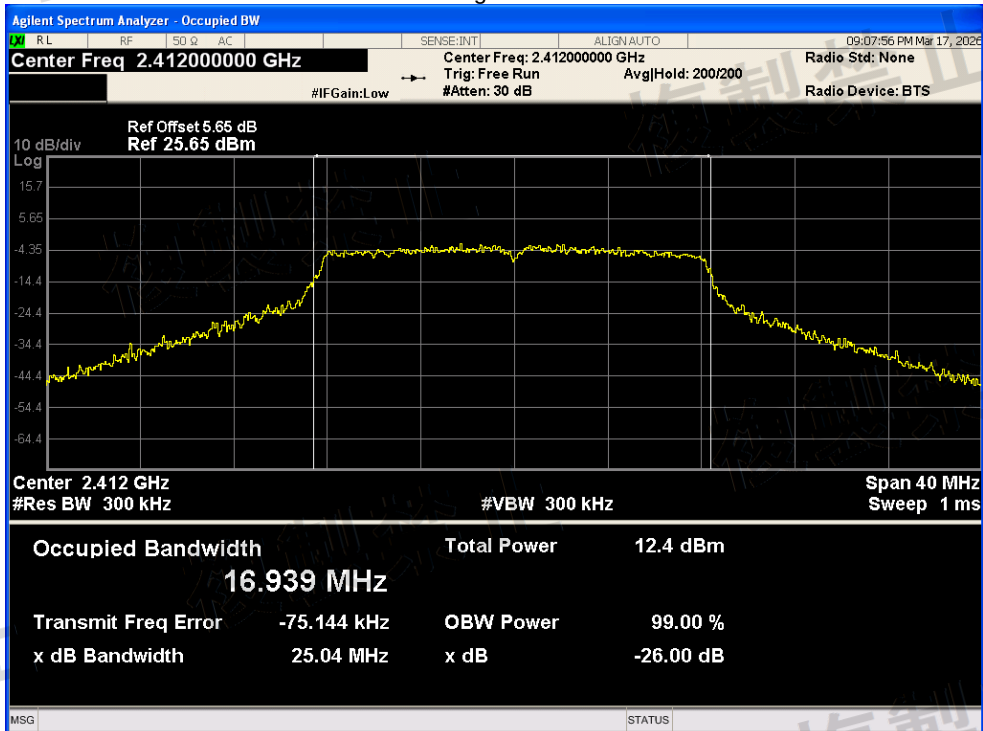
OBW NVNT b 2442MHz Ant1



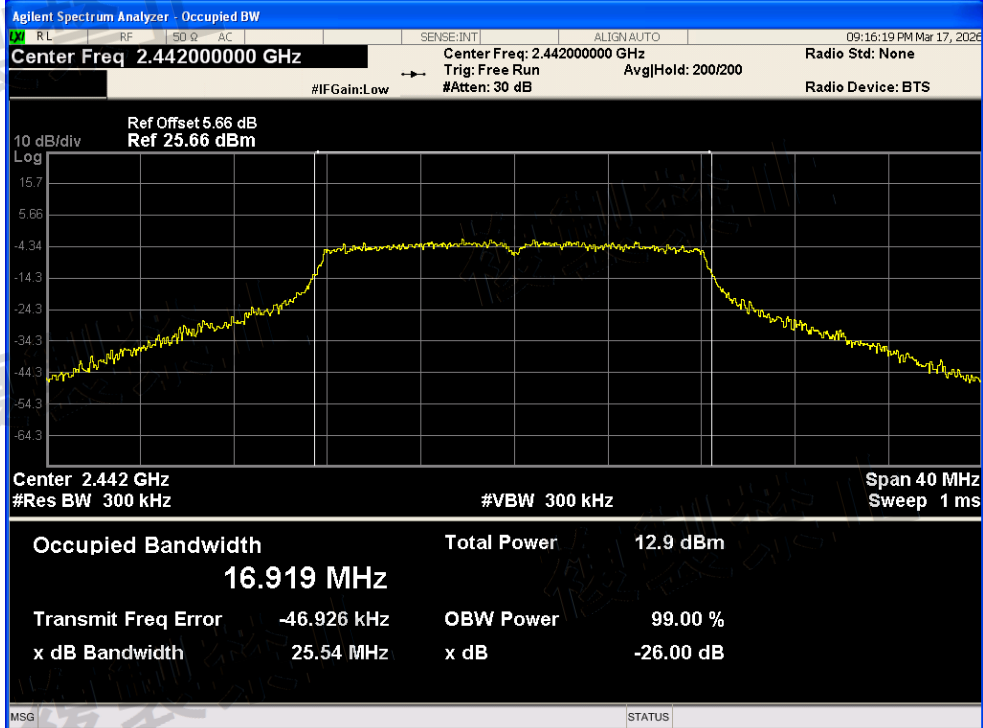
OBW NVNT b 2472MHz Ant1



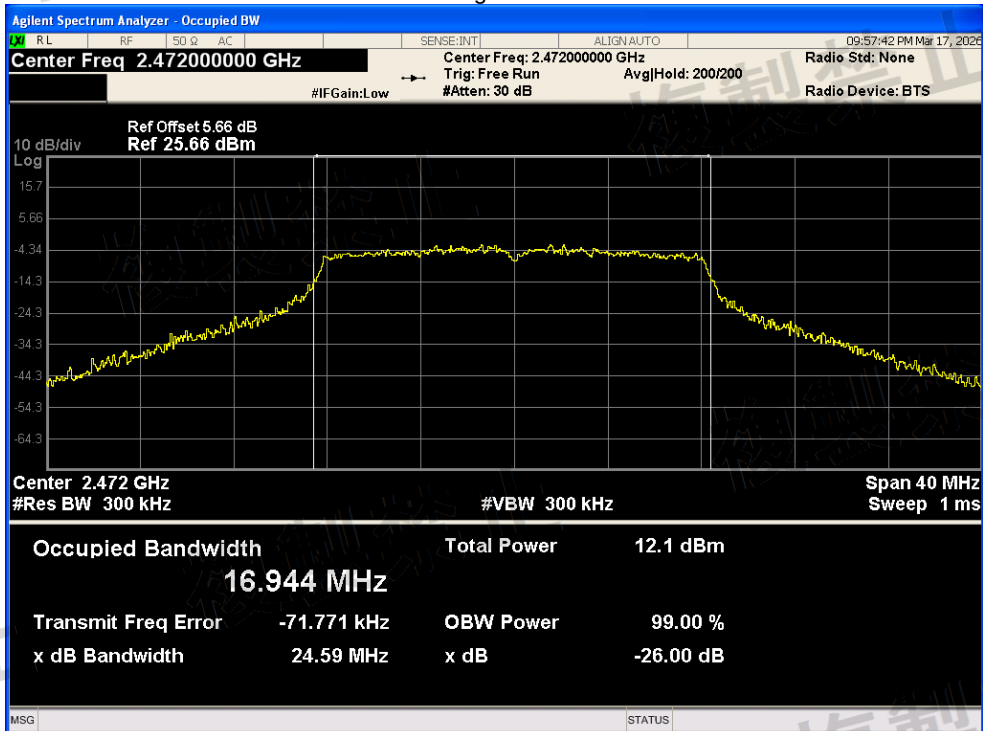
OBW NVNT g 2412MHz Ant1



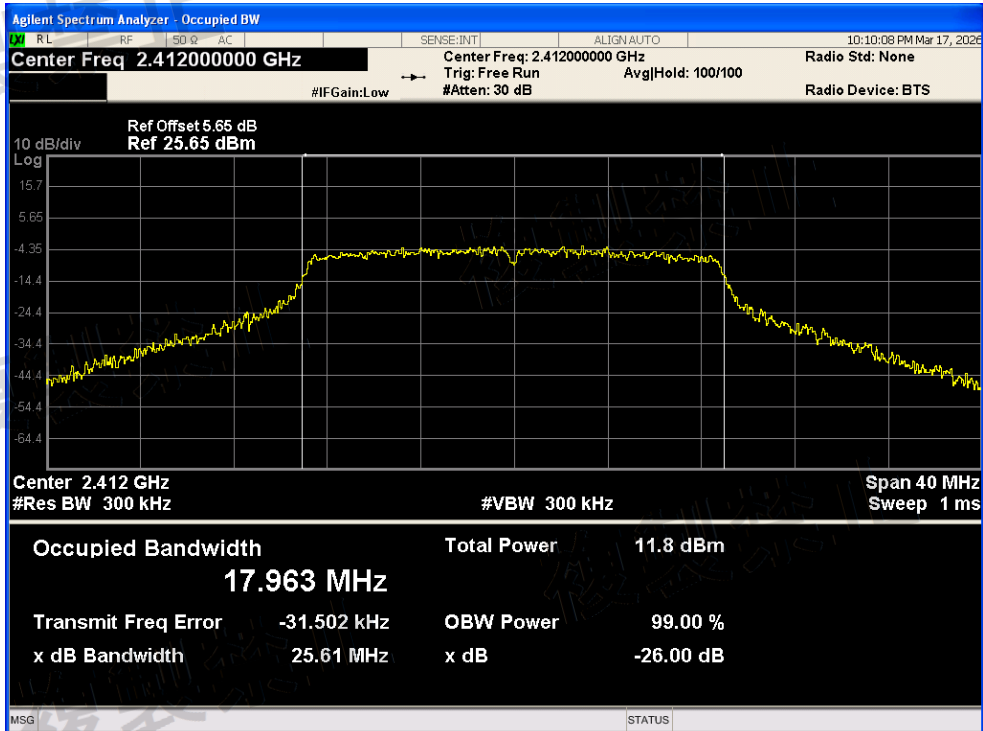
OBW NVNT g 2442MHz Ant1



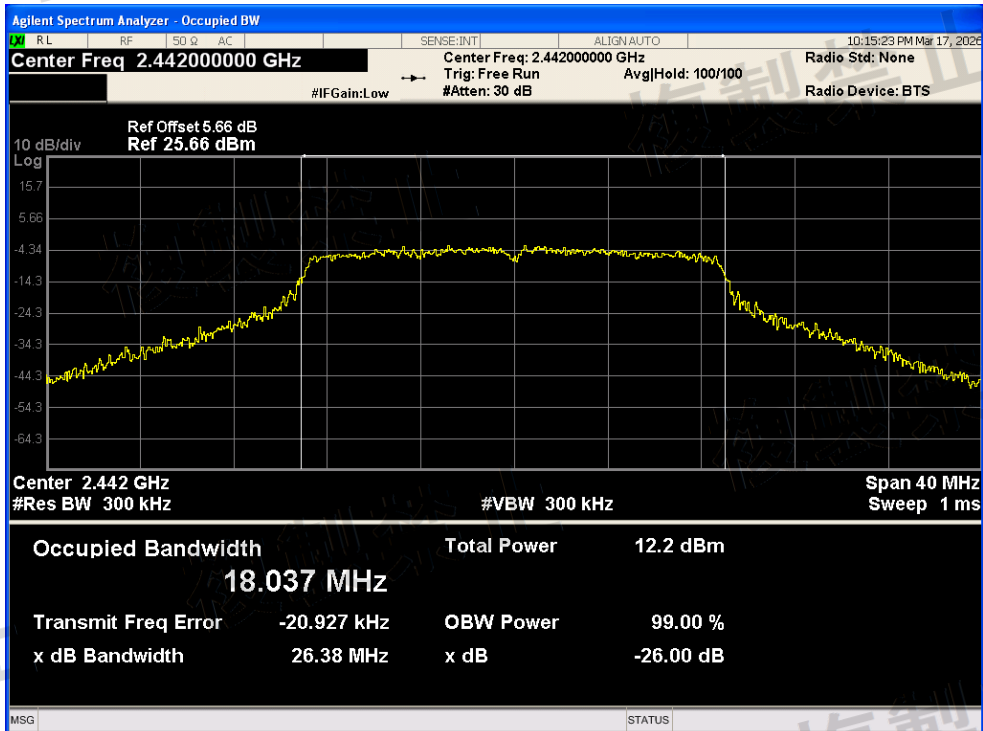
OBW NVNT g 2472MHz Ant1



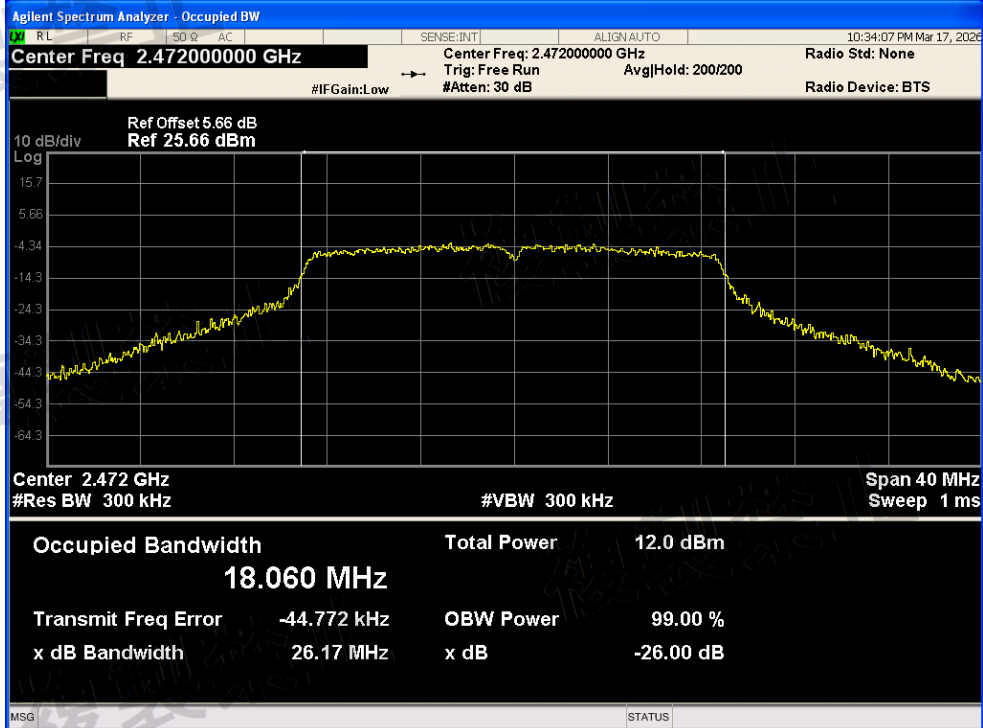
OBW NVNT n20 2412MHz Ant1



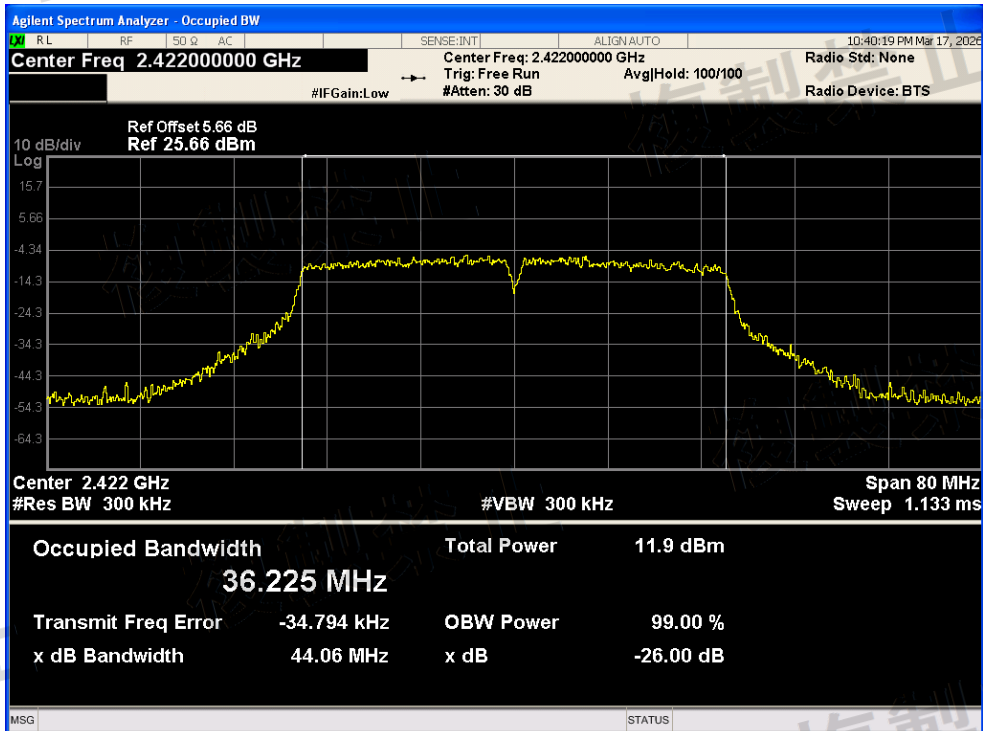
OBW NVNT n20 2442MHz Ant1



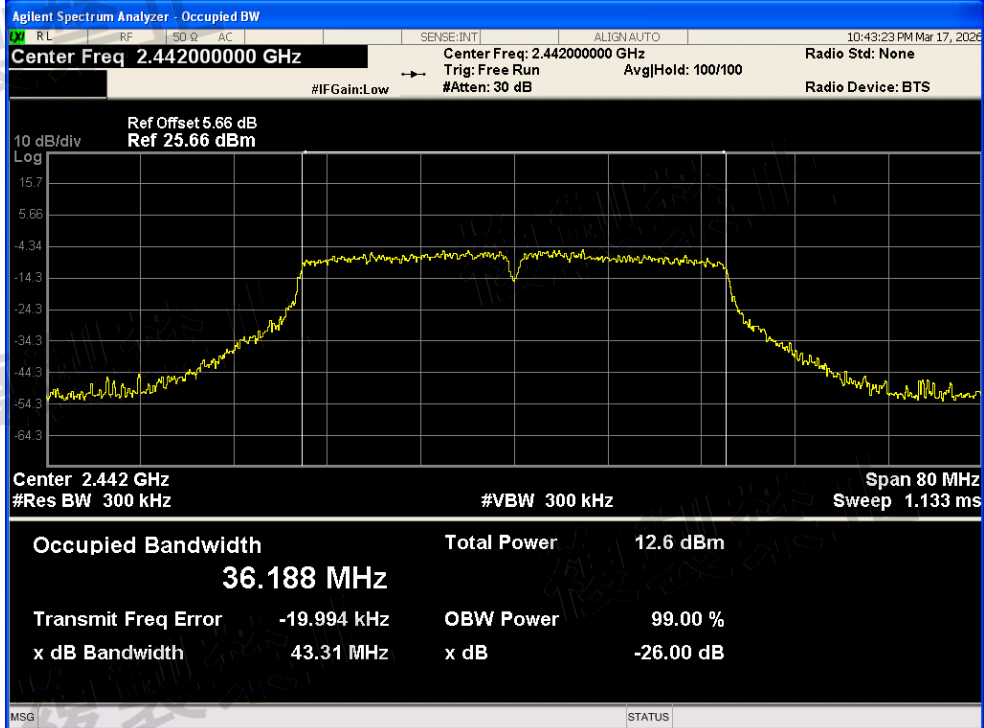
OBW NVNT n20 2472MHz Ant1



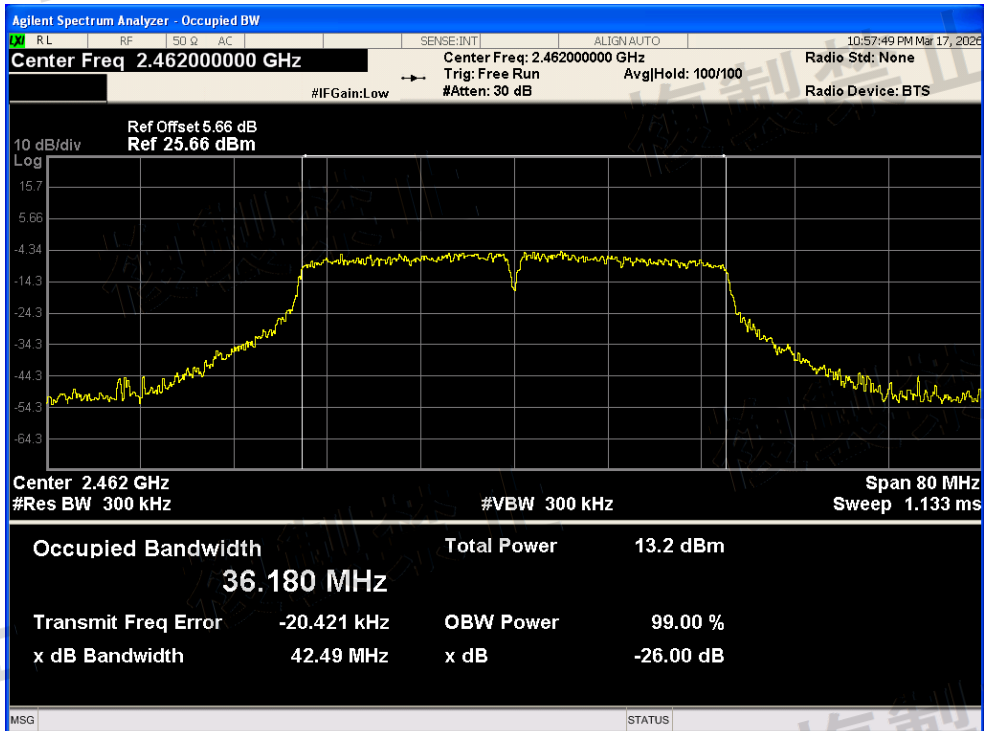
OBW NVNT n40 2422MHz Ant1



OBW NVNT n40 2442MHz Ant1



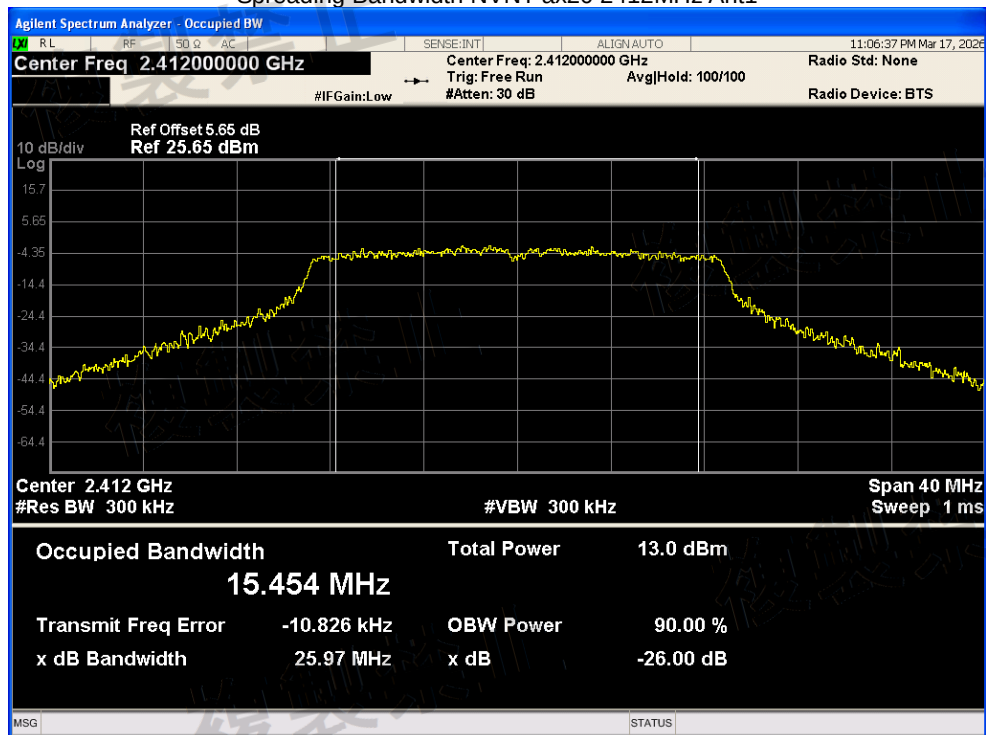
OBW NVNT n40 2462MHz Ant1



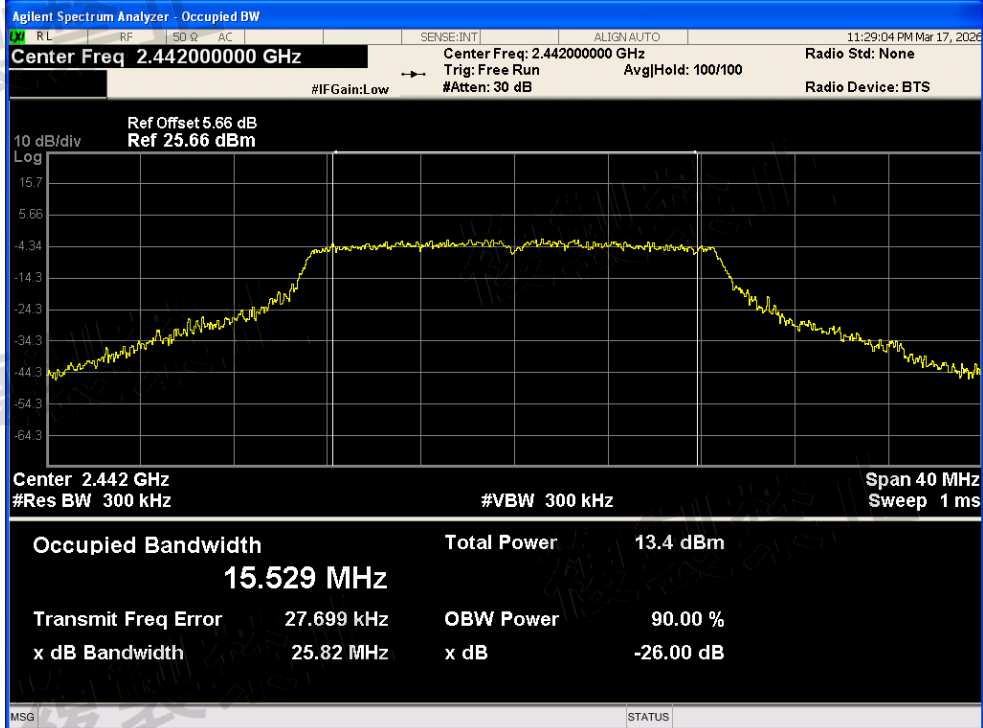
12.4 SPREADING BANDWIDTH

Condition	Mode	Frequency (MHz)	Antenna	90% OBW (MHz)	Limit (MHz)	Verdict
NVNT	ax20	2412	Ant1	15.454	0.5	Pass
NVNT	ax20	2442	Ant1	15.529	0.5	Pass
NVNT	ax20	2472	Ant1	15.425	0.5	Pass
NVNT	ax40	2422	Ant1	31.705	0.5	Pass
NVNT	ax40	2442	Ant1	31.897	0.5	Pass
NVNT	ax40	2462	Ant1	31.434	0.5	Pass
NVNT	b	2412	Ant1	8.789	0.5	Pass
NVNT	b	2442	Ant1	8.801	0.5	Pass
NVNT	b	2472	Ant1	8.816	0.5	Pass
NVNT	g	2412	Ant1	14.467	0.5	Pass
NVNT	g	2442	Ant1	14.446	0.5	Pass
NVNT	g	2472	Ant1	14.441	0.5	Pass
NVNT	n20	2412	Ant1	15.474	0.5	Pass
NVNT	n20	2442	Ant1	15.428	0.5	Pass
NVNT	n20	2472	Ant1	15.364	0.5	Pass
NVNT	n40	2422	Ant1	31.717	0.5	Pass
NVNT	n40	2442	Ant1	31.595	0.5	Pass
NVNT	n40	2462	Ant1	31.695	0.5	Pass

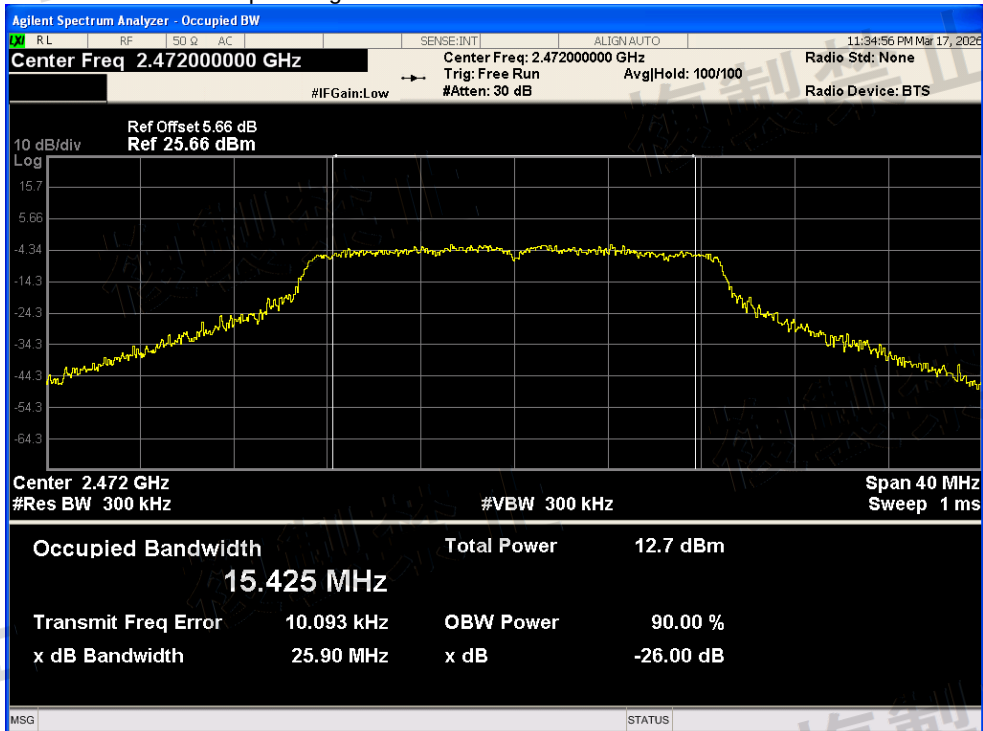
Spreading Bandwidth NVNT ax20 2412MHz Ant1



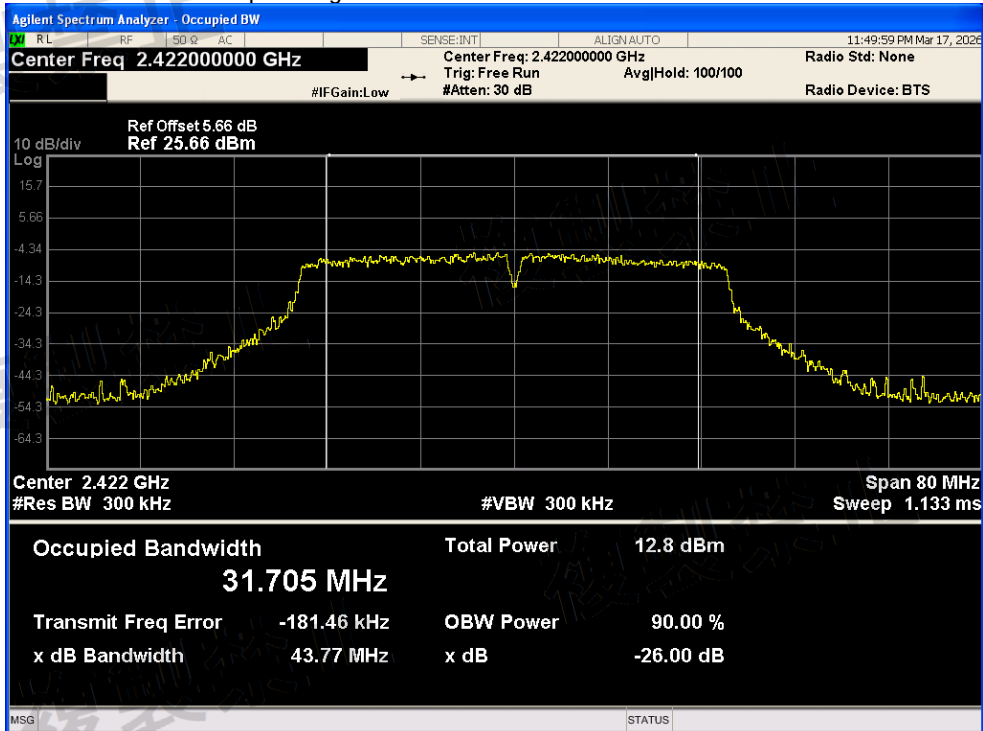
Spreading Bandwidth NVNT ax20 2442MHz Ant1



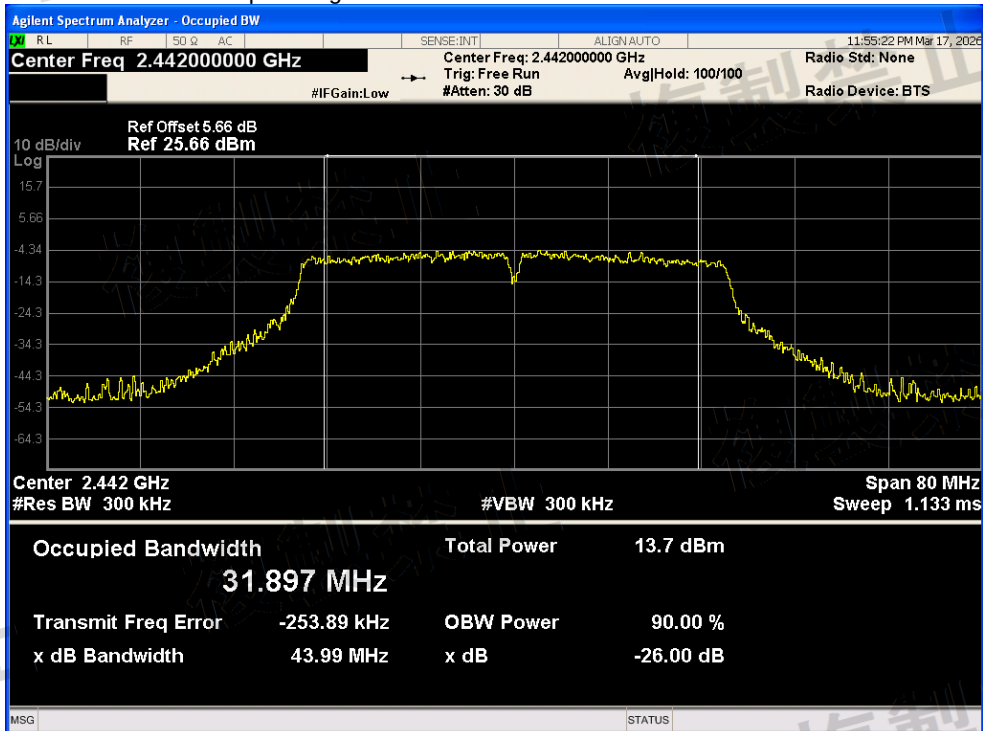
Spreading Bandwidth NVNT ax20 2472MHz Ant1



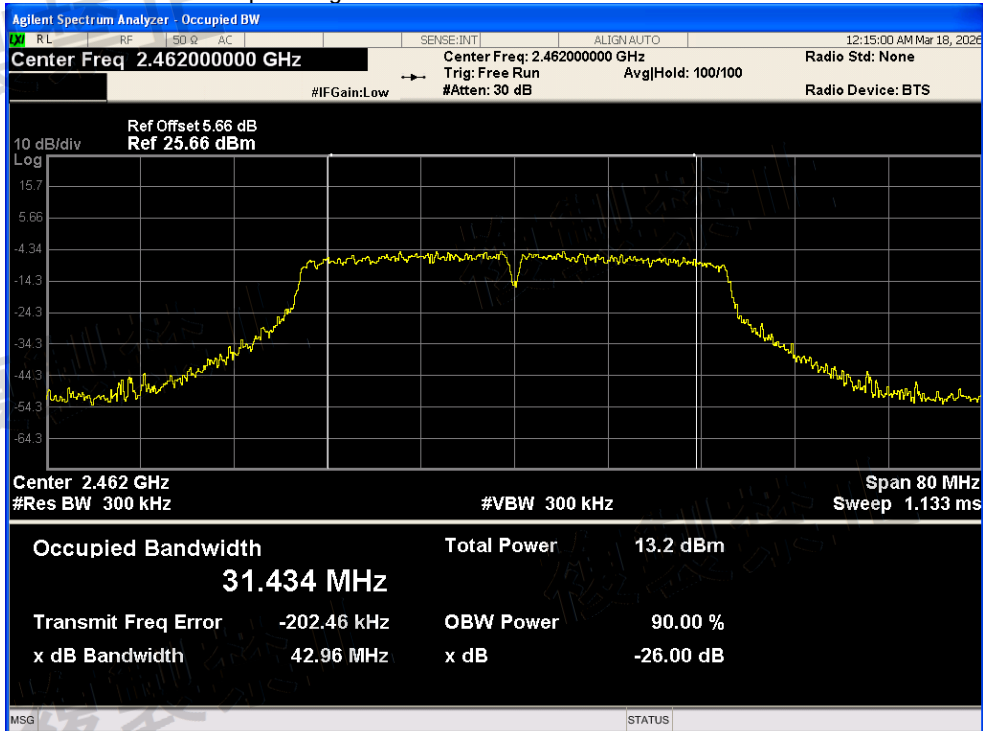
Spreading Bandwidth NVNT ax40 2422MHz Ant1



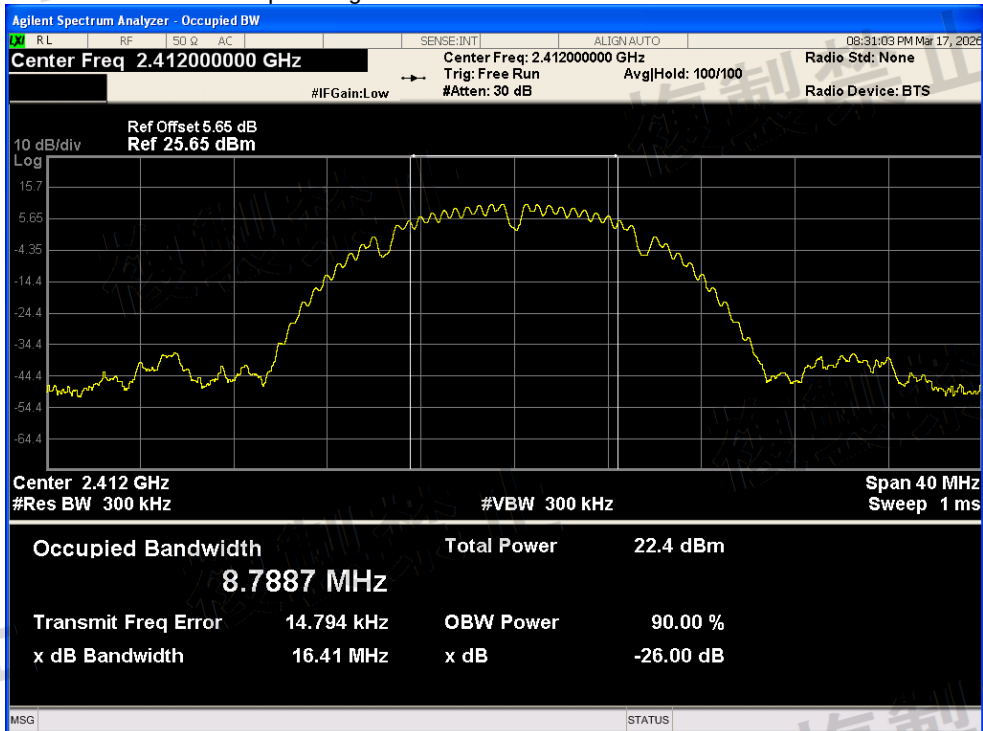
Spreading Bandwidth NVNT ax40 2442MHz Ant1



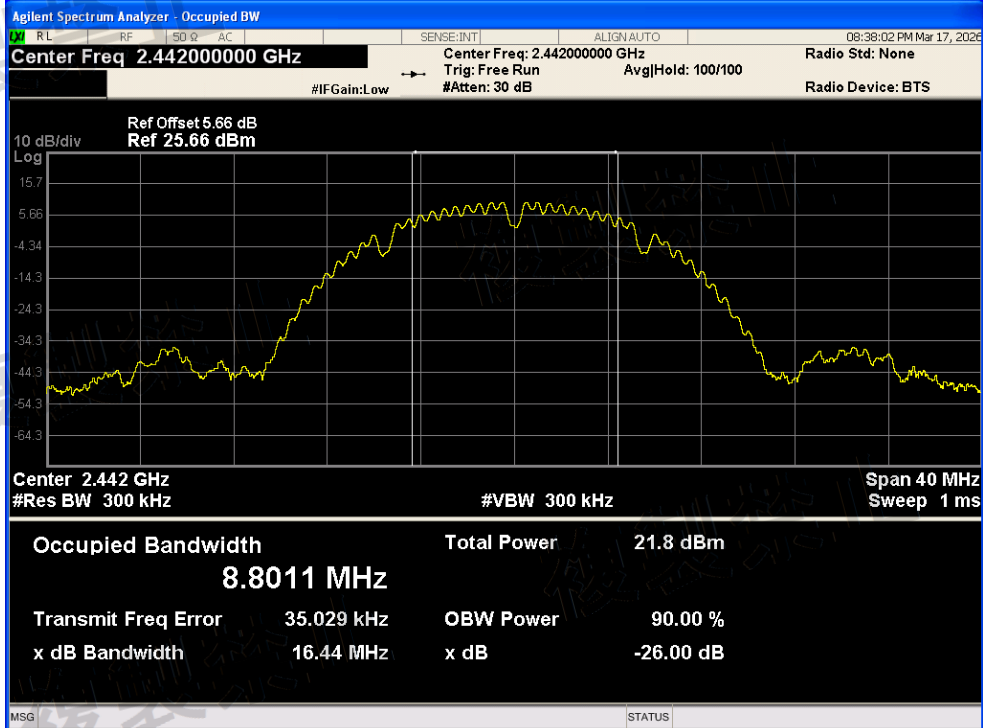
Spreading Bandwidth NVNT ax40 2462MHz Ant1



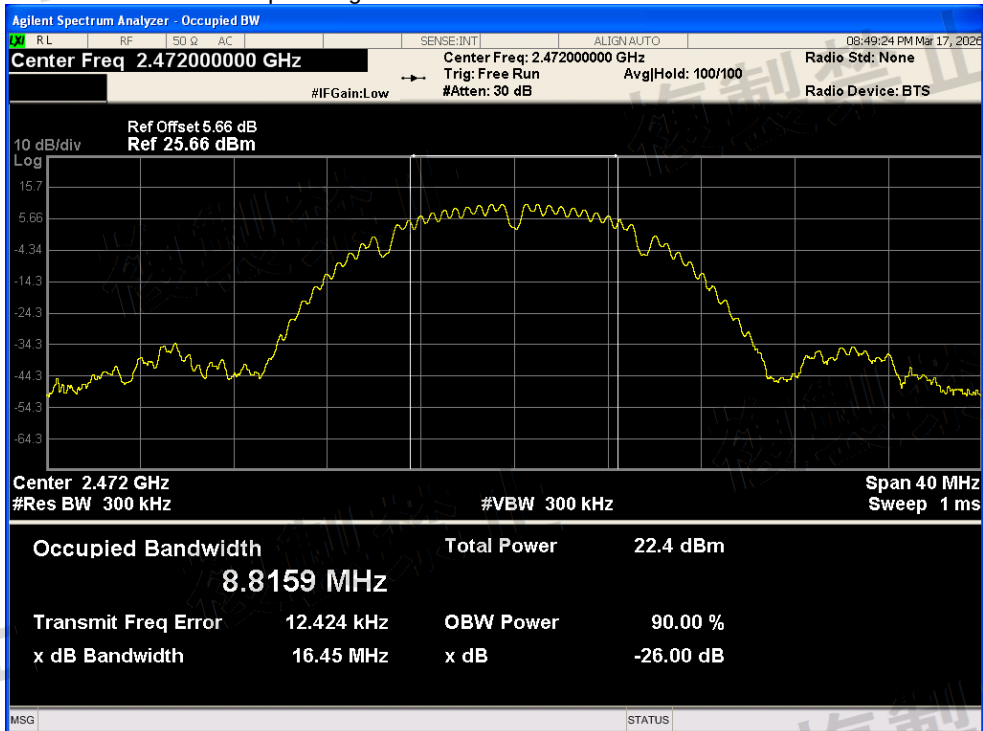
Spreading Bandwidth NVNT b 2412MHz Ant1



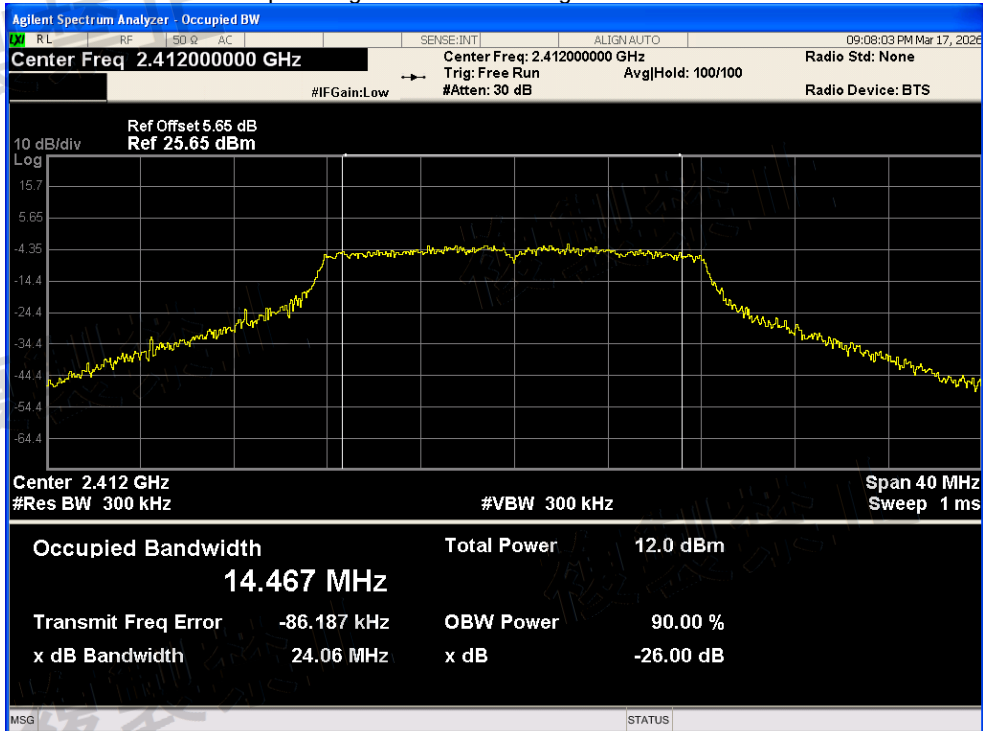
Spreading Bandwidth NVNT b 2442MHz Ant1



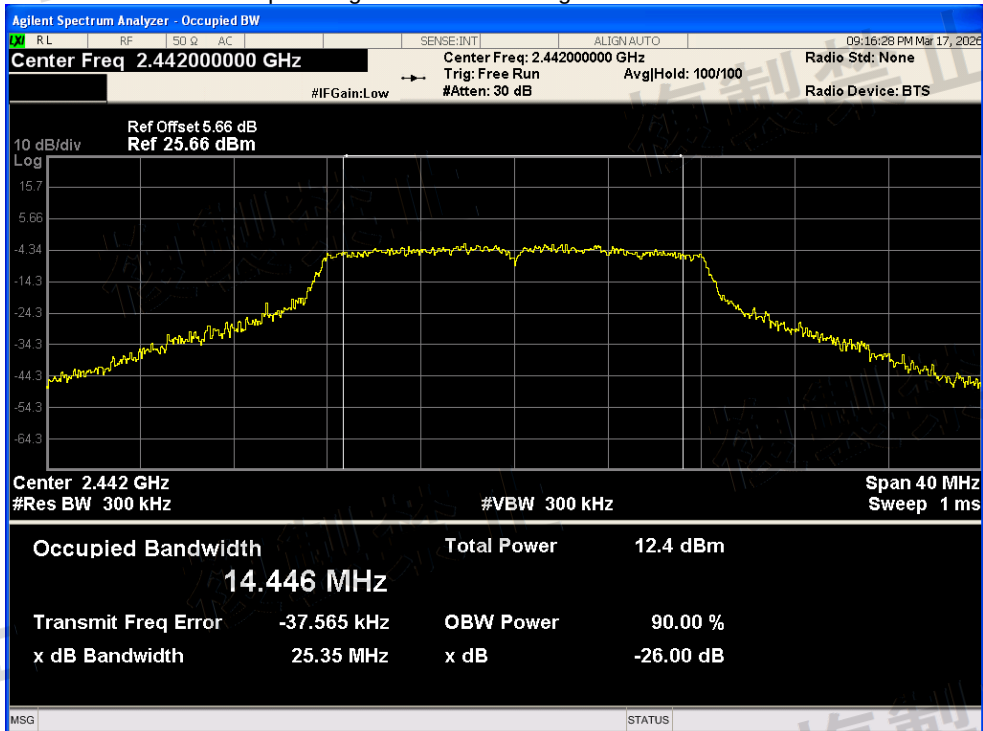
Spreading Bandwidth NVNT b 2472MHz Ant1



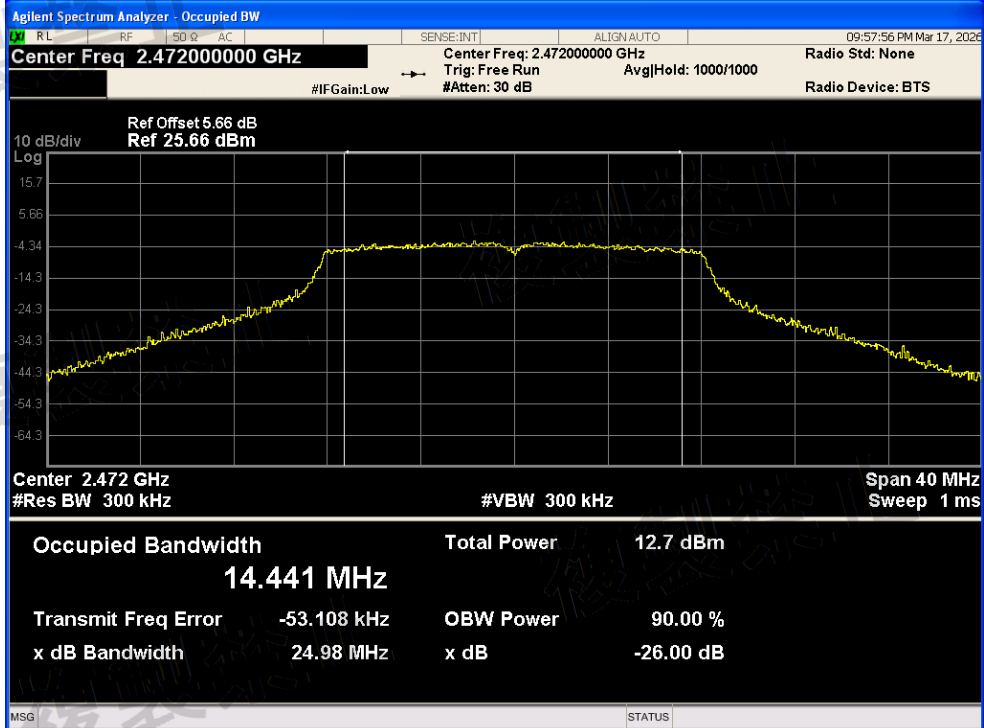
Spreading Bandwidth NVNT g 2412MHz Ant1



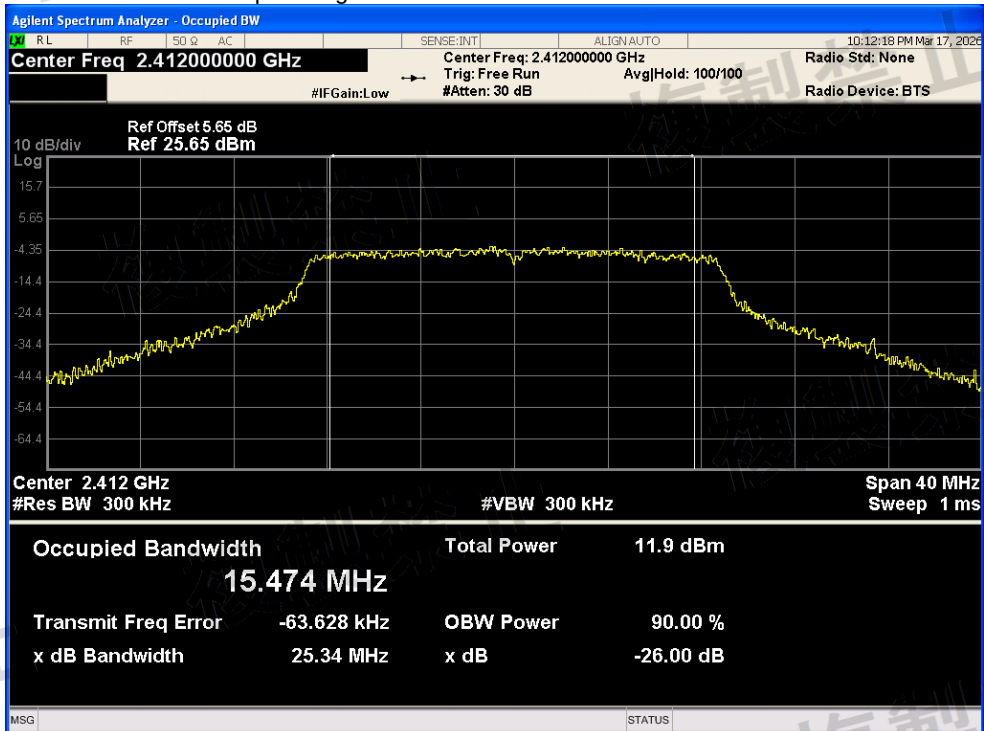
Spreading Bandwidth NVNT g 2442MHz Ant1



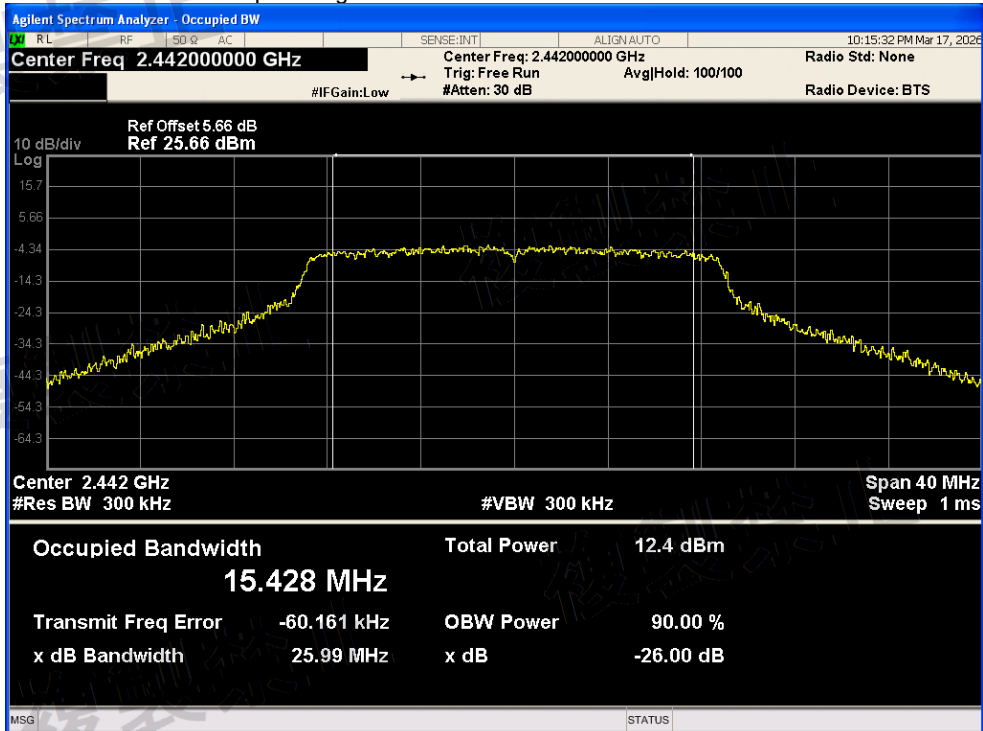
Spreading Bandwidth NVNT g 2472MHz Ant1



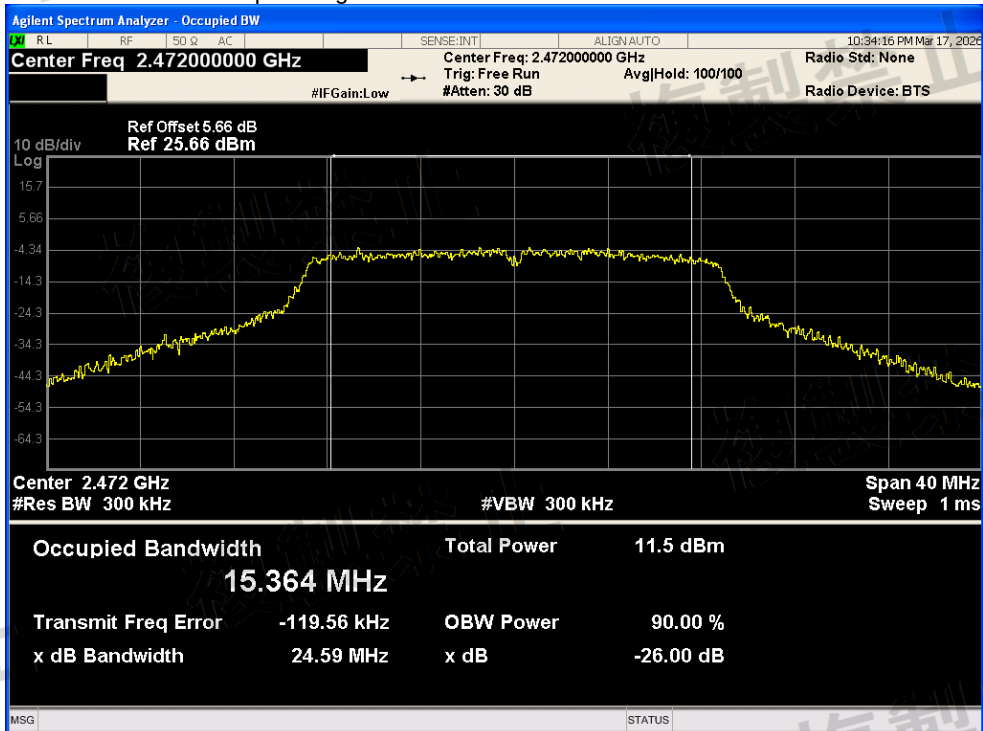
Spreading Bandwidth NVNT n20 2412MHz Ant1



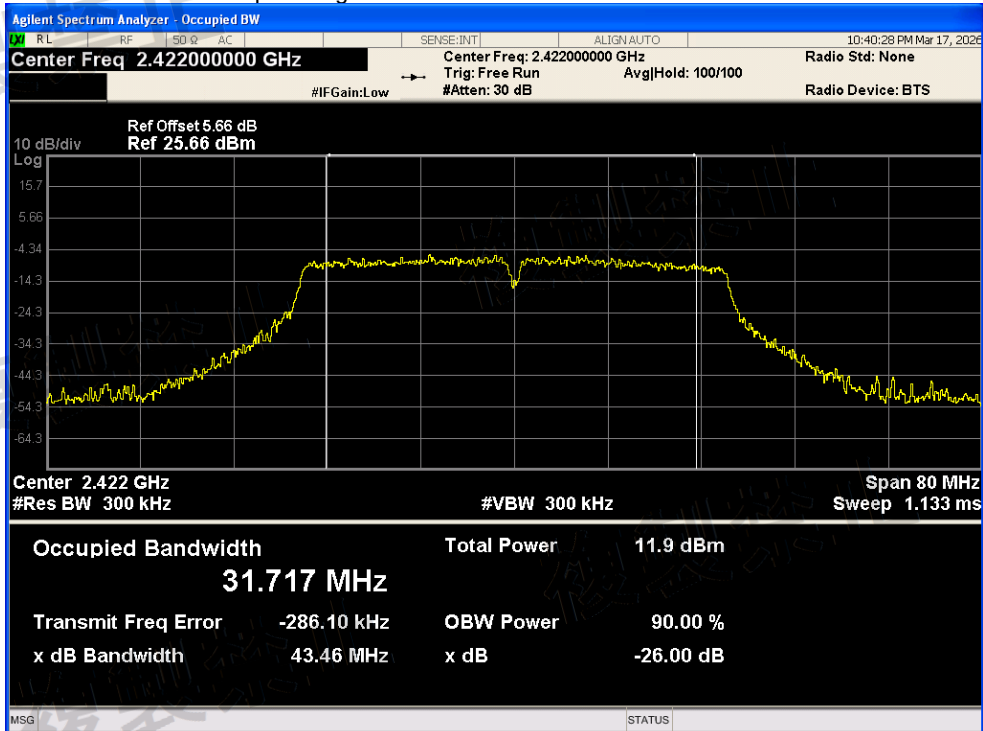
Spreading Bandwidth NVNT n20 2442MHz Ant1



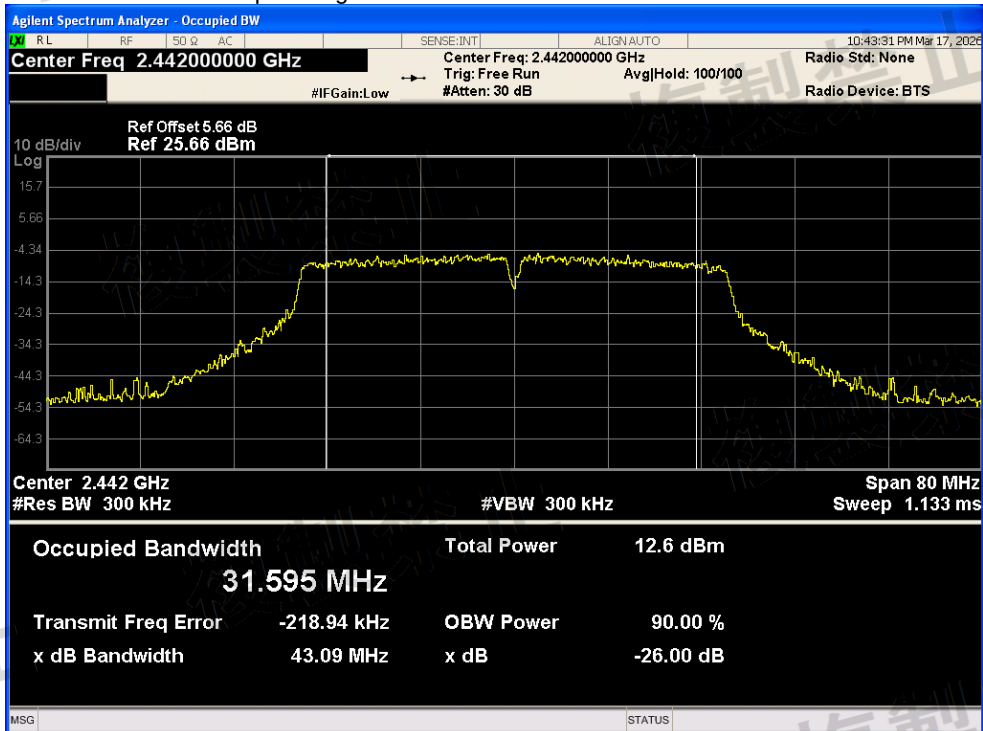
Spreading Bandwidth NVNT n20 2472MHz Ant1



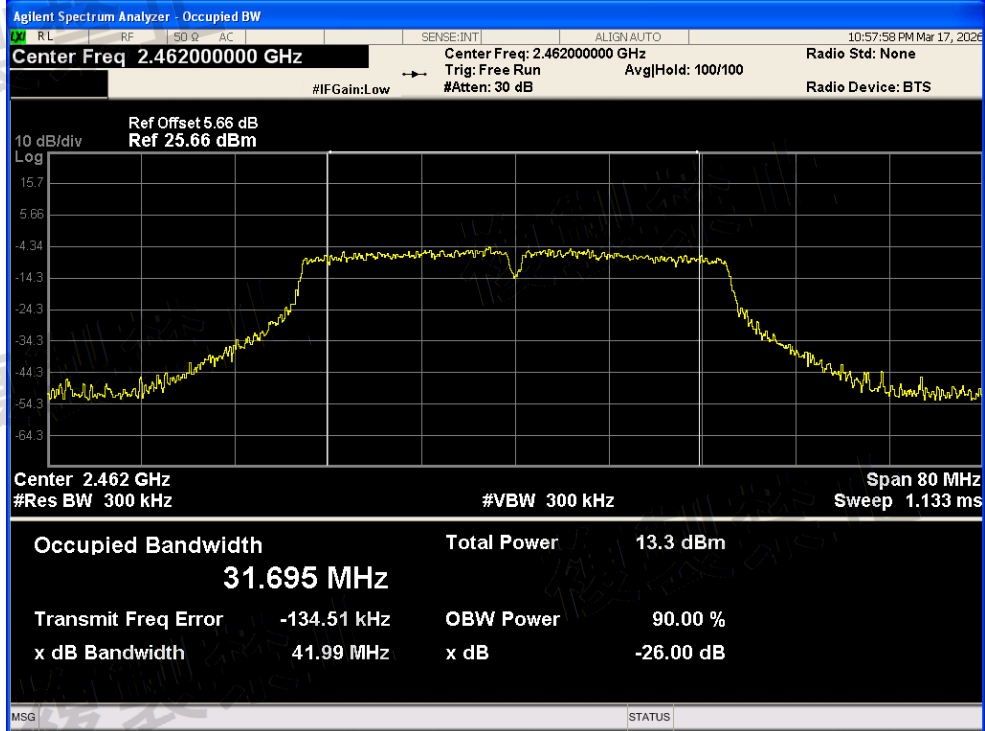
Spreading Bandwidth NVNT n40 2422MHz Ant1



Spreading Bandwidth NVNT n40 2442MHz Ant1



Spreading Bandwidth NVNT n40 2462MHz Ant1

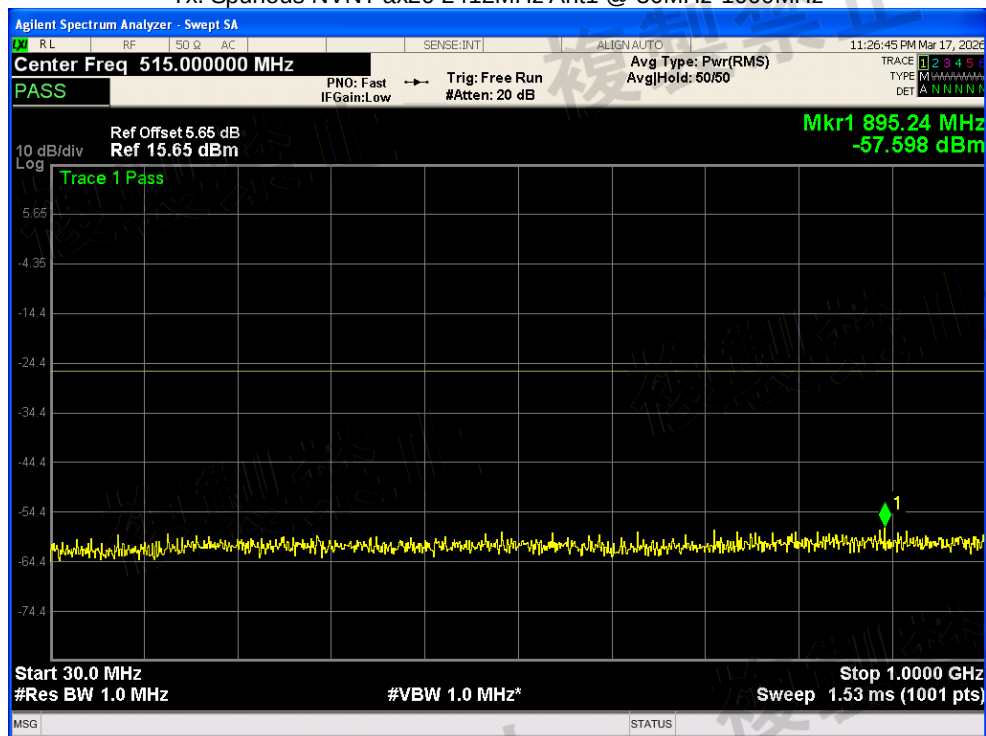


12.5 TX SPURIOUS EMISSION

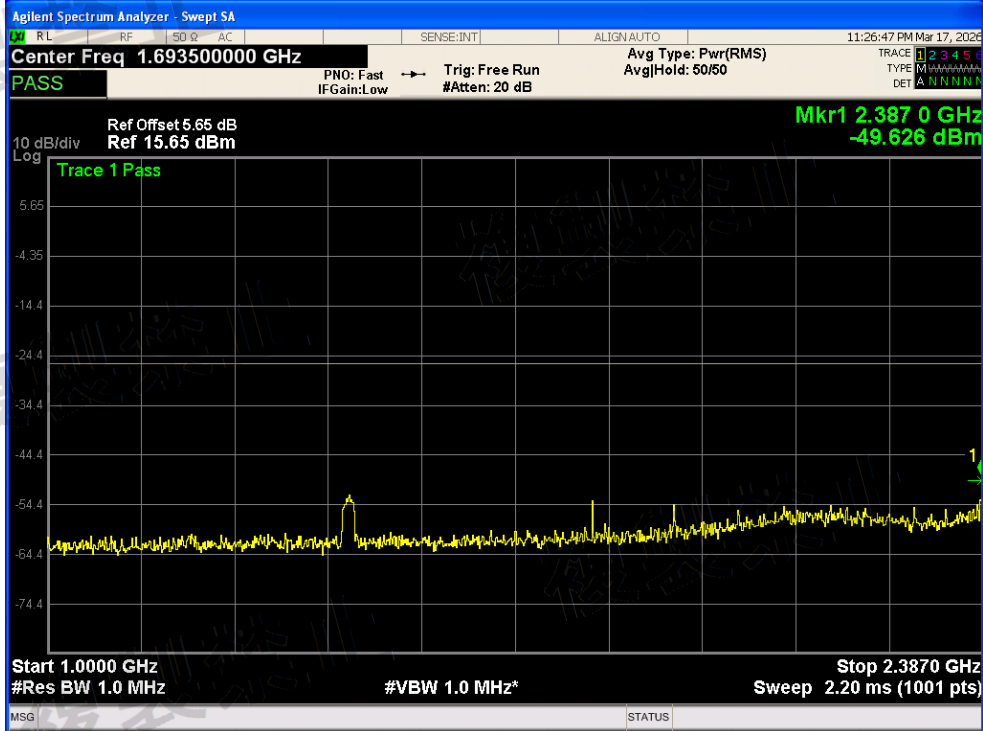
Condition	Mode	Frequency (MHz)	Antenna	Range (MHz)	Emission Frequency (MHz)	Max Value (dBm)	Max Value (uW)	Limit Start(uW)	Limit Stop (uW)	Verdict
NVNT	ax20	2412	Ant1	30-1000	895.24	-57.59	0.0017	2.5	2.5	Pass
NVNT	ax20	2412	Ant1	1000-2387	2387	-49.62	0.0109	2.5	2.5	Pass
NVNT	ax20	2412	Ant1	2387-2400	2399.65	-18.78	13.2434	25	25	Pass
NVNT	ax20	2412	Ant1	2483.5-2496.5	2485.33	-54.19	0.0038	25	25	Pass
NVNT	ax20	2412	Ant1	2496.5-13000	4828.28	-58.27	0.0015	2.5	2.5	Pass
NVNT	ax20	2442	Ant1	30-1000	819.58	-57.18	0.0019	2.5	2.5	Pass
NVNT	ax20	2442	Ant1	1000-2387	1463.26	-52.3	0.0059	2.5	2.5	Pass
NVNT	ax20	2442	Ant1	2387-2400	2388.16	-44.08	0.0391	25	25	Pass
NVNT	ax20	2442	Ant1	2483.5-2496.5	2484.33	-47.48	0.0179	25	25	Pass
NVNT	ax20	2442	Ant1	2496.5-13000	4880.79	-57.06	0.002	2.5	2.5	Pass
NVNT	ax20	2472	Ant1	30-1000	779.81	-57.74	0.0017	2.5	2.5	Pass
NVNT	ax20	2472	Ant1	1000-2387	2368.97	-50.27	0.0094	2.5	2.5	Pass
NVNT	ax20	2472	Ant1	2387-2400	2387.49	-53.97	0.004	25	25	Pass
NVNT	ax20	2472	Ant1	2483.5-2496.5	2484.1	-18.83	13.0918	25	25	Pass
NVNT	ax20	2472	Ant1	2496.5-13000	2496.5	-53.36	0.0046	2.5	2.5	Pass
NVNT	ax40	2422	Ant1	30-1000	933.07	-57.93	0.0016	2.5	2.5	Pass
NVNT	ax40	2422	Ant1	1000-2387	2119.31	-50.22	0.0095	2.5	2.5	Pass
NVNT	ax40	2422	Ant1	2387-2400	2400	-22.48	5.6494	25	25	Pass
NVNT	ax40	2422	Ant1	2483.5-2496.5	2488.65	-53.71	0.0043	25	25	Pass
NVNT	ax40	2422	Ant1	2496.5-13000	12653.38	-59.08	0.0012	2.5	2.5	Pass
NVNT	ax40	2442	Ant1	30-1000	903.97	-57.4	0.0018	2.5	2.5	Pass
NVNT	ax40	2442	Ant1	1000-2387	1952.87	-53.14	0.0049	2.5	2.5	Pass
NVNT	ax40	2442	Ant1	2387-2400	2398.74	-44.93	0.0321	25	25	Pass
NVNT	ax40	2442	Ant1	2483.5-2496.5	2495.73	-46.46	0.0226	25	25	Pass
NVNT	ax40	2442	Ant1	2496.5-13000	12684.89	-58.77	0.0013	2.5	2.5	Pass
NVNT	ax40	2462	Ant1	30-1000	957.32	-57.59	0.0017	2.5	2.5	Pass
NVNT	ax40	2462	Ant1	1000-2387	2380.07	-47.34	0.0185	2.5	2.5	Pass
NVNT	ax40	2462	Ant1	2387-2400	2394.23	-47.6	0.0174	25	25	Pass
NVNT	ax40	2462	Ant1	2483.5-2496.5	2484.36	-23.29	4.6881	25	25	Pass
NVNT	ax40	2462	Ant1	2496.5-13000	2496.5	-52.64	0.0054	2.5	2.5	Pass
NVNT	b	2412	Ant1	30-1000	964.11	-51.23	0.0075	2.5	2.5	Pass
NVNT	b	2412	Ant1	1000-2387	1446.61	-41.75	0.0668	2.5	2.5	Pass
NVNT	b	2412	Ant1	2387-2400	2397.57	-35.62	0.2742	25	25	Pass
NVNT	b	2412	Ant1	2483.5-2496.5	2493.89	-47.3	0.0186	25	25	Pass
NVNT	b	2412	Ant1	2496.5-13000	4828.28	-46.16	0.0242	2.5	2.5	Pass
NVNT	b	2442	Ant1	30-1000	976.72	-52.47	0.0057	2.5	2.5	Pass
NVNT	b	2442	Ant1	1000-2387	1464.65	-42.63	0.0546	2.5	2.5	Pass
NVNT	b	2442	Ant1	2387-2400	2397.61	-46.59	0.0219	25	25	Pass
NVNT	b	2442	Ant1	2483.5-2496.5	2487.96	-46.19	0.024	25	25	Pass
NVNT	b	2442	Ant1	2496.5-13000	4880.79	-44.86	0.0327	2.5	2.5	Pass
NVNT	b	2472	Ant1	30-1000	988.36	-51.25	0.0075	2.5	2.5	Pass
NVNT	b	2472	Ant1	1000-2387	1482.68	-42.72	0.0535	2.5	2.5	Pass
NVNT	b	2472	Ant1	2387-2400	2399.52	-48.01	0.0158	25	25	Pass
NVNT	b	2472	Ant1	2483.5-2496.5	2486.63	-34.24	0.3767	25	25	Pass
NVNT	b	2472	Ant1	2496.5-13000	4943.82	-43.78	0.0419	2.5	2.5	Pass
NVNT	g	2412	Ant1	30-1000	217.21	-47.69	0.017	2.5	2.5	Pass
NVNT	g	2412	Ant1	1000-2387	2124.86	-46.54	0.0222	2.5	2.5	Pass
NVNT	g	2412	Ant1	2387-2400	2399.51	-19.94	10.1391	25	25	Pass
NVNT	g	2412	Ant1	2483.5-2496.5	2491.17	-45.53	0.028	25	25	Pass
NVNT	g	2412	Ant1	2496.5-13000	12506.34	-49.29	0.0118	2.5	2.5	Pass
NVNT	g	2442	Ant1	30-1000	829.28	-57.17	0.0019	2.5	2.5	Pass
NVNT	g	2442	Ant1	1000-2387	1952.87	-52.81	0.0052	2.5	2.5	Pass
NVNT	g	2442	Ant1	2387-2400	2388.07	-45.07	0.0311	25	25	Pass
NVNT	g	2442	Ant1	2483.5-2496.5	2492	-53.92	0.0041	25	25	Pass
NVNT	g	2442	Ant1	2496.5-13000	4891.3	-58.39	0.0014	2.5	2.5	Pass
NVNT	g	2472	Ant1	30-1000	971.87	-57.09	0.002	2.5	2.5	Pass
NVNT	g	2472	Ant1	1000-2387	2160.92	-45.54	0.0279	2.5	2.5	Pass
NVNT	g	2472	Ant1	2387-2400	2387.47	-44.49	0.0356	25	25	Pass
NVNT	g	2472	Ant1	2483.5-2496.5	2483.68	-19.24	11.9124	25	25	Pass
NVNT	g	2472	Ant1	2496.5-13000	2496.5	-54.48	0.0036	2.5	2.5	Pass
NVNT	n20	2412	Ant1	30-1000	318.09	-47.77	0.0167	2.5	2.5	Pass
NVNT	n20	2412	Ant1	1000-2387	2163.69	-46.17	0.0242	2.5	2.5	Pass
NVNT	n20	2412	Ant1	2387-2400	2399.82	-18.41	14.4212	25	25	Pass
NVNT	n20	2412	Ant1	2483.5-2496.5	2490.56	-45.64	0.0273	25	25	Pass
NVNT	n20	2412	Ant1	2496.5-13000	12611.37	-49.29	0.0118	2.5	2.5	Pass
NVNT	n20	2442	Ant1	30-1000	491.72	-55.92	0.0026	2.5	2.5	Pass
NVNT	n20	2442	Ant1	1000-2387	2220.56	-47.35	0.0184	2.5	2.5	Pass
NVNT	n20	2442	Ant1	2387-2400	2396.09	-51.49	0.0071	25	25	Pass
NVNT	n20	2442	Ant1	2483.5-2496.5	2489.58	-44.79	0.0332	25	25	Pass
NVNT	n20	2442	Ant1	2496.5-13000	4880.79	-57.86	0.0016	2.5	2.5	Pass
NVNT	n20	2472	Ant1	30-1000	880.69	-56.69	0.0021	2.5	2.5	Pass

NVNT	n20	2472	Ant1	1000-2387	2253.85	-44.09	0.039	2.5	2.5	Pass
NVNT	n20	2472	Ant1	2387-2400	2398.11	-44.36	0.0366	25	25	Pass
NVNT	n20	2472	Ant1	2483.5-2496.5	2483.58	-19.97	10.0693	25	25	Pass
NVNT	n20	2472	Ant1	2496.5-13000	2496.5	-51.62	0.0069	2.5	2.5	Pass
NVNT	n40	2422	Ant1	30-1000	813.76	-56.57	0.0022	2.5	2.5	Pass
NVNT	n40	2422	Ant1	1000-2387	2219.17	-45.84	0.0261	2.5	2.5	Pass
NVNT	n40	2422	Ant1	2387-2400	2399.42	-25.51	2.8119	25	25	Pass
NVNT	n40	2422	Ant1	2483.5-2496.5	2485.36	-45.39	0.0289	25	25	Pass
NVNT	n40	2422	Ant1	2496.5-13000	3872.46	-58.6	0.0014	2.5	2.5	Pass
NVNT	n40	2442	Ant1	30-1000	813.76	-57.5	0.0018	2.5	2.5	Pass
NVNT	n40	2442	Ant1	1000-2387	2135.95	-44.9	0.0324	2.5	2.5	Pass
NVNT	n40	2442	Ant1	2387-2400	2399.82	-45.45	0.0285	25	25	Pass
NVNT	n40	2442	Ant1	2483.5-2496.5	2483.73	-47.81	0.0166	25	25	Pass
NVNT	n40	2442	Ant1	2496.5-13000	12632.38	-59.05	0.0012	2.5	2.5	Pass
NVNT	n40	2462	Ant1	30-1000	446.13	-57.72	0.0017	2.5	2.5	Pass
NVNT	n40	2462	Ant1	1000-2387	2226.11	-45.24	0.0299	2.5	2.5	Pass
NVNT	n40	2462	Ant1	2387-2400	2394.58	-44.03	0.0395	25	25	Pass
NVNT	n40	2462	Ant1	2483.5-2496.5	2483.5	-21.24	7.5162	25	25	Pass
NVNT	n40	2462	Ant1	2496.5-13000	2496.5	-52.29	0.0059	2.5	2.5	Pass

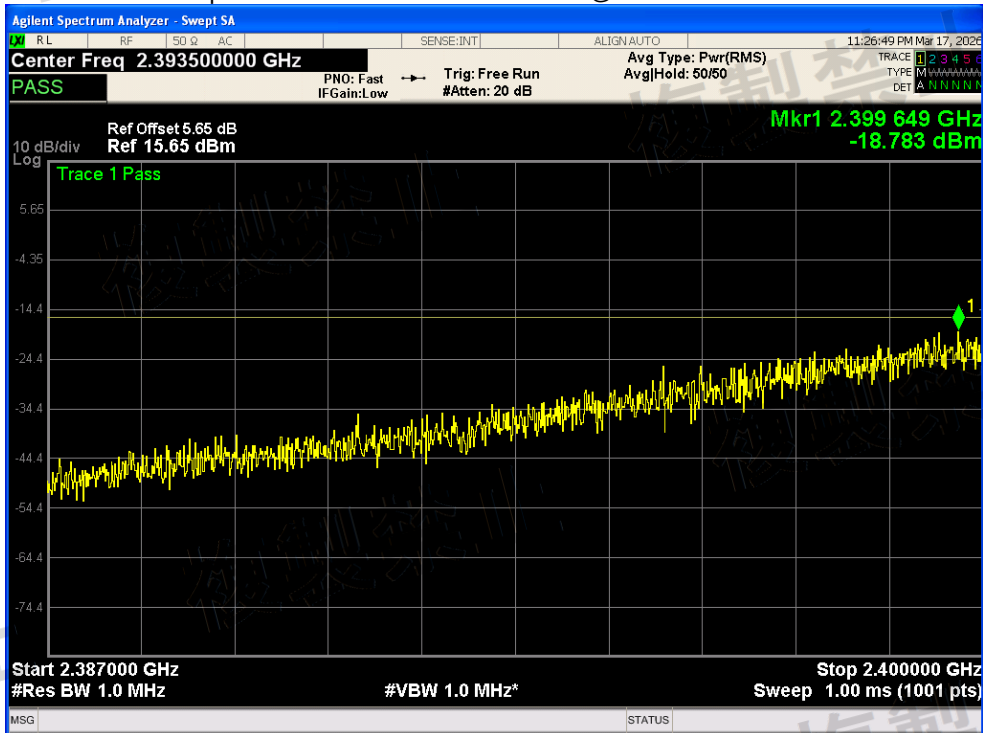
Tx. Spurious NVNT ax20 2412MHz Ant1 @ 30MHz-1000MHz



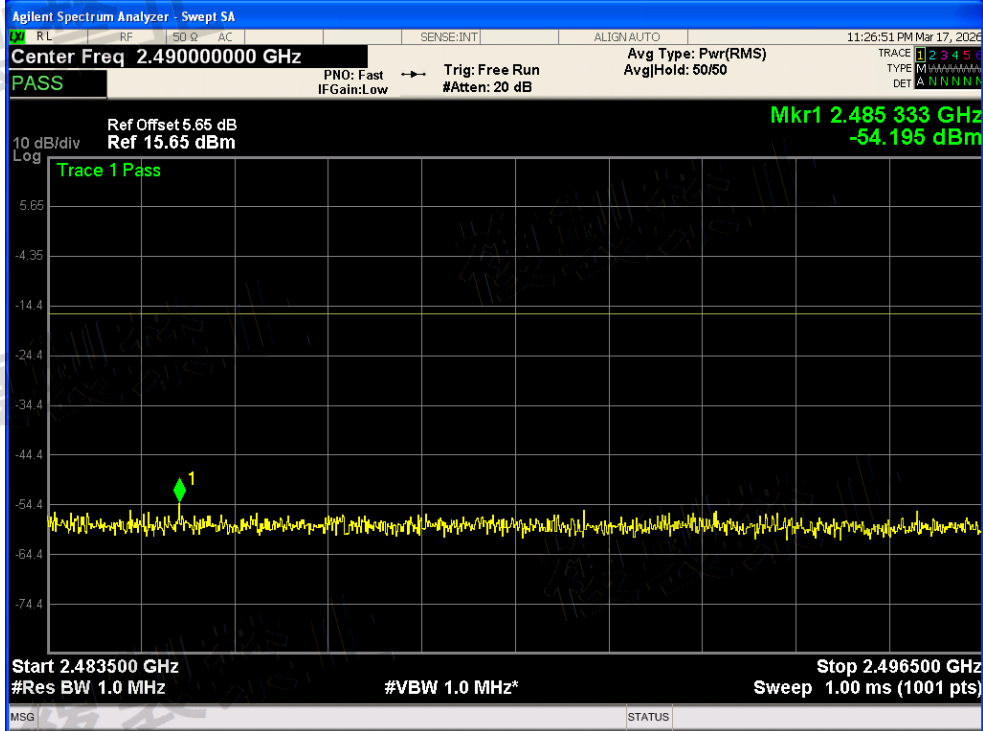
Tx. Spurious NVNT ax20 2412MHz Ant1 @ 1000MHz-2387MHz



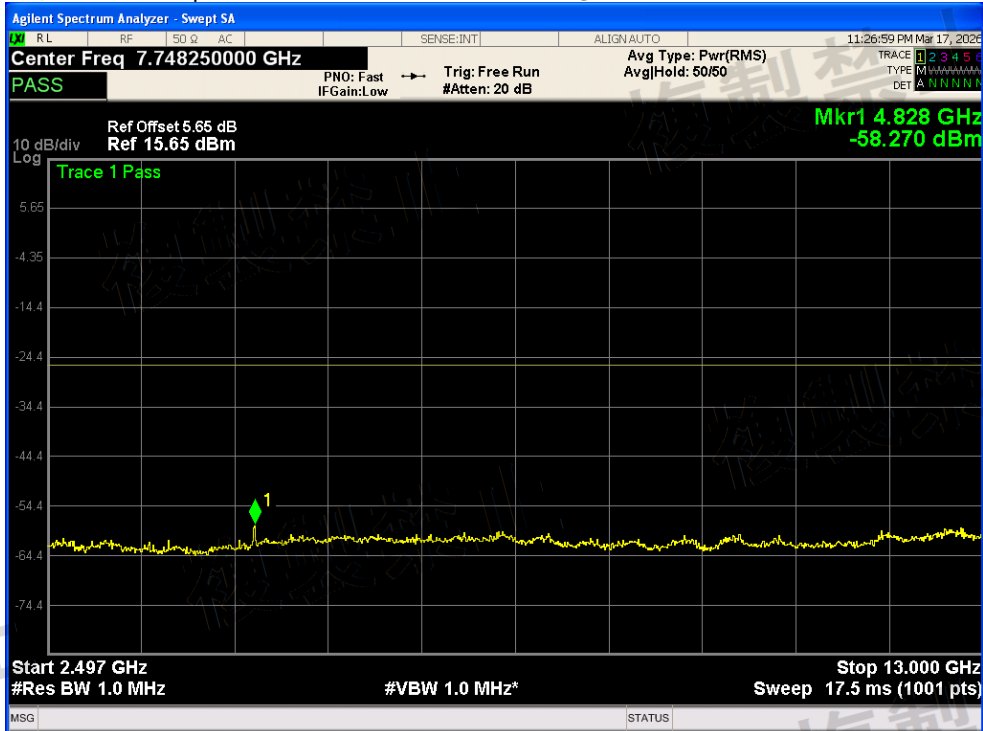
Tx. Spurious NVNT ax20 2412MHz Ant1 @ 2387MHz-2400MHz



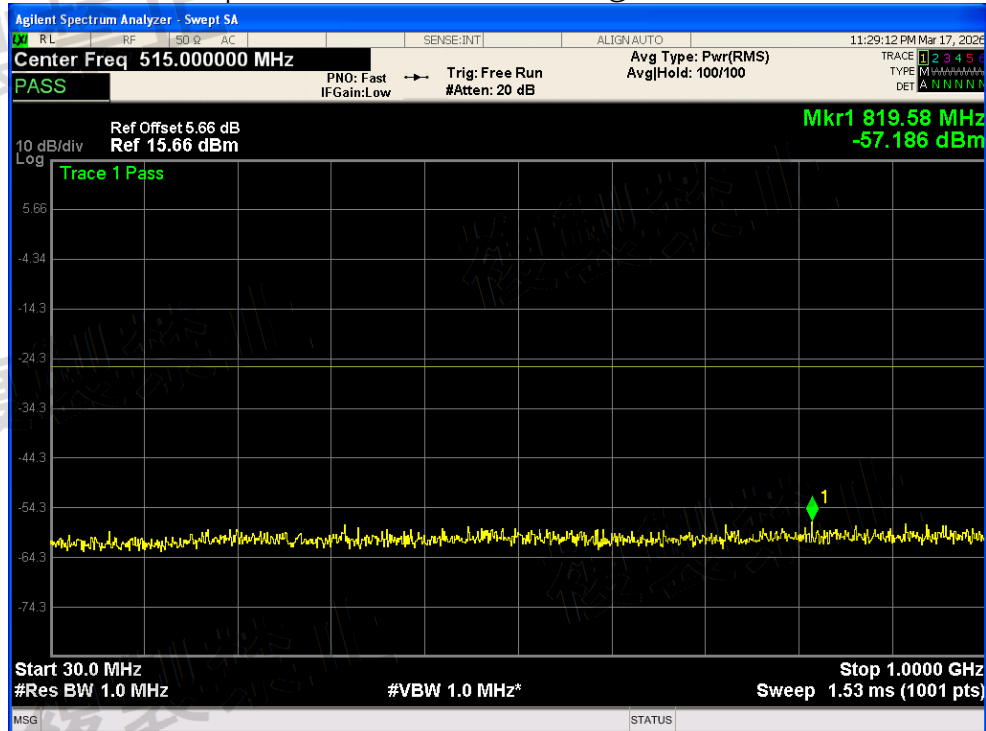
Tx. Spurious NVNT ax20 2412MHz Ant1 @ 2483.5MHz-2496.5MHz



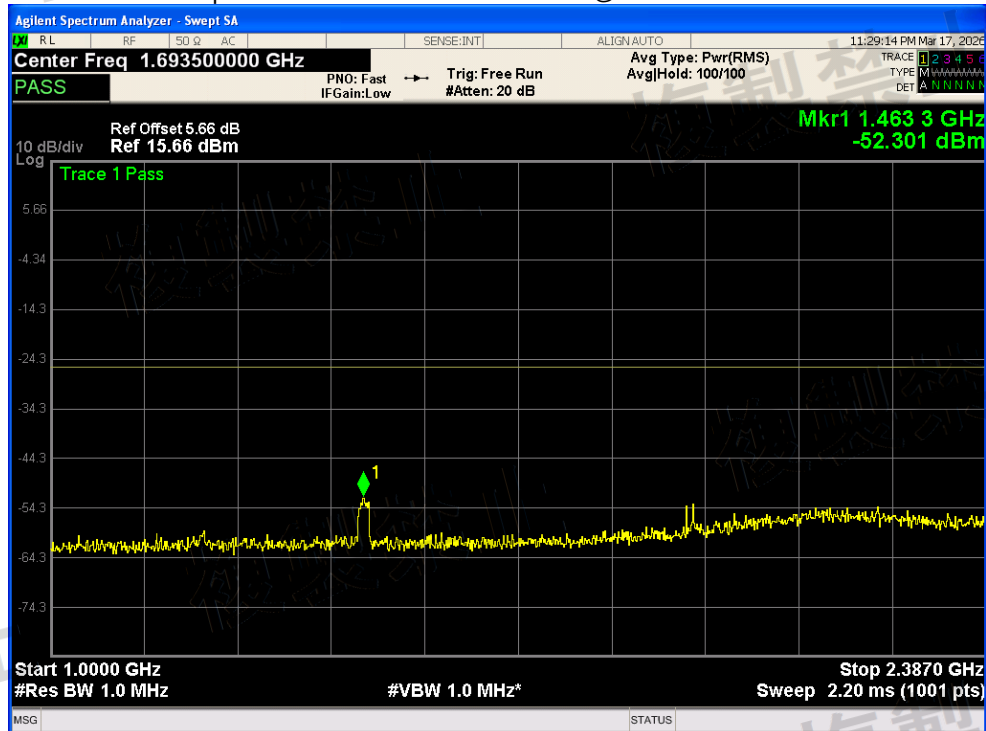
Tx. Spurious NVNT ax20 2412MHz Ant1 @ 2496.5MHz-13000MHz



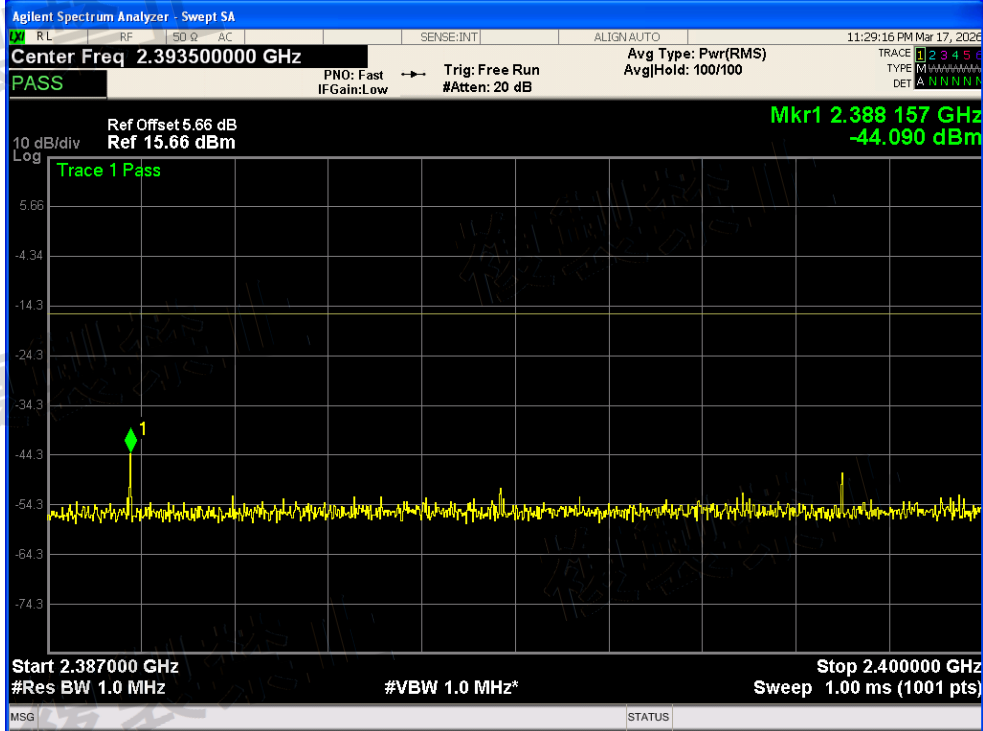
Tx. Spurious NVNT ax20 2442MHz Ant1 @ 30MHz-1000MHz



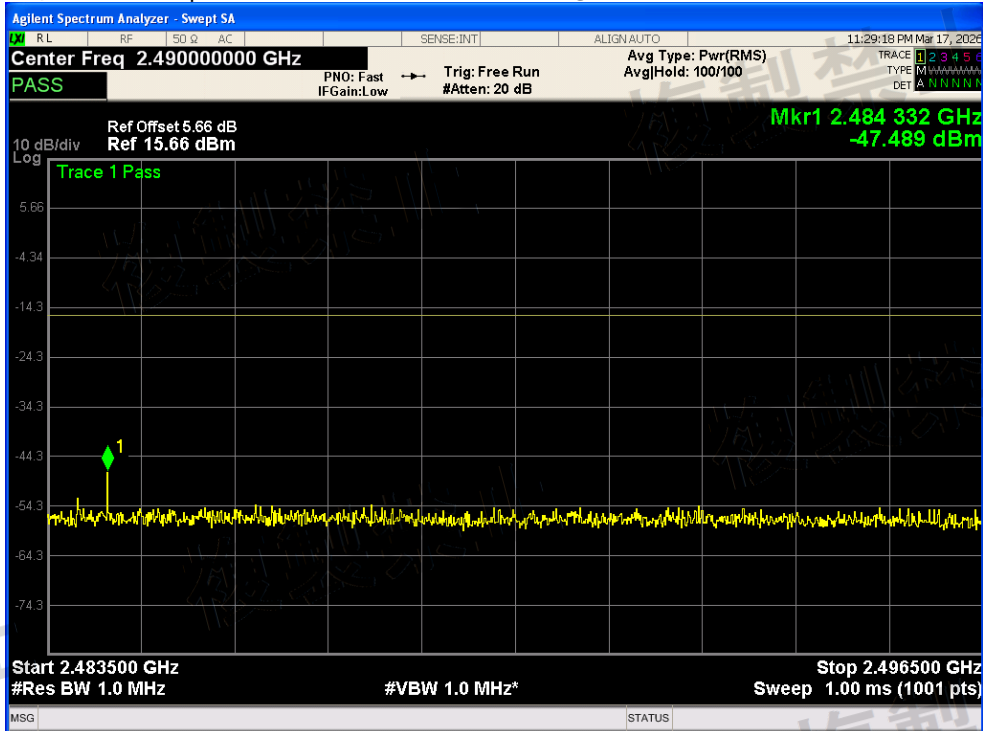
Tx. Spurious NVNT ax20 2442MHz Ant1 @ 1000MHz-2387MHz



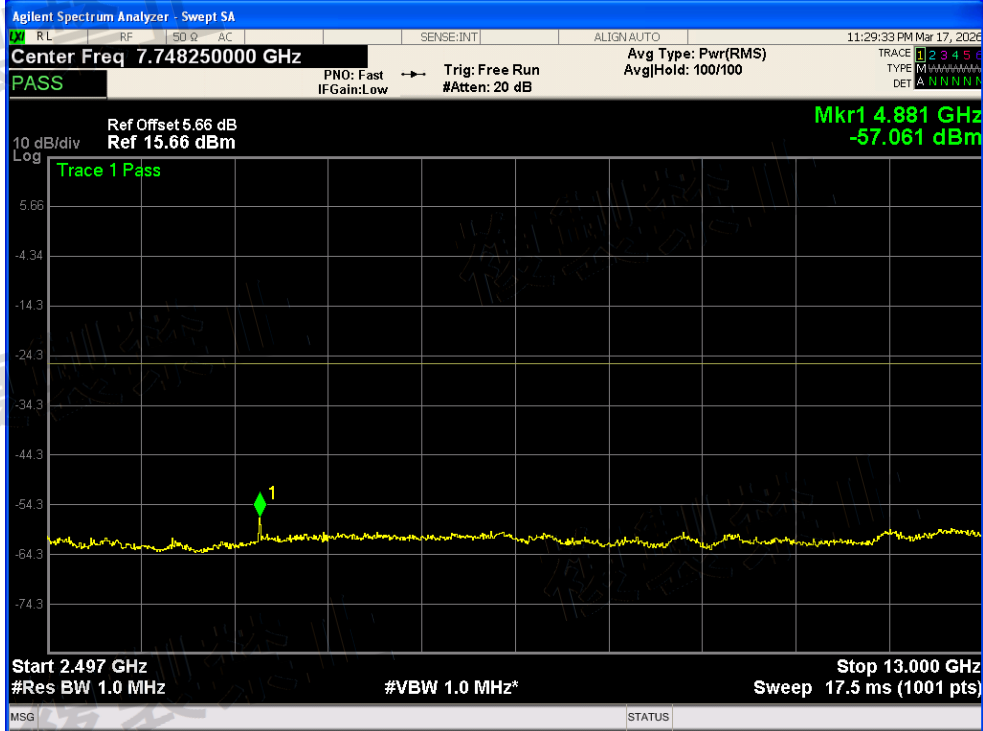
Tx. Spurious NVNT ax20 2442MHz Ant1 @ 2387MHz-2400MHz



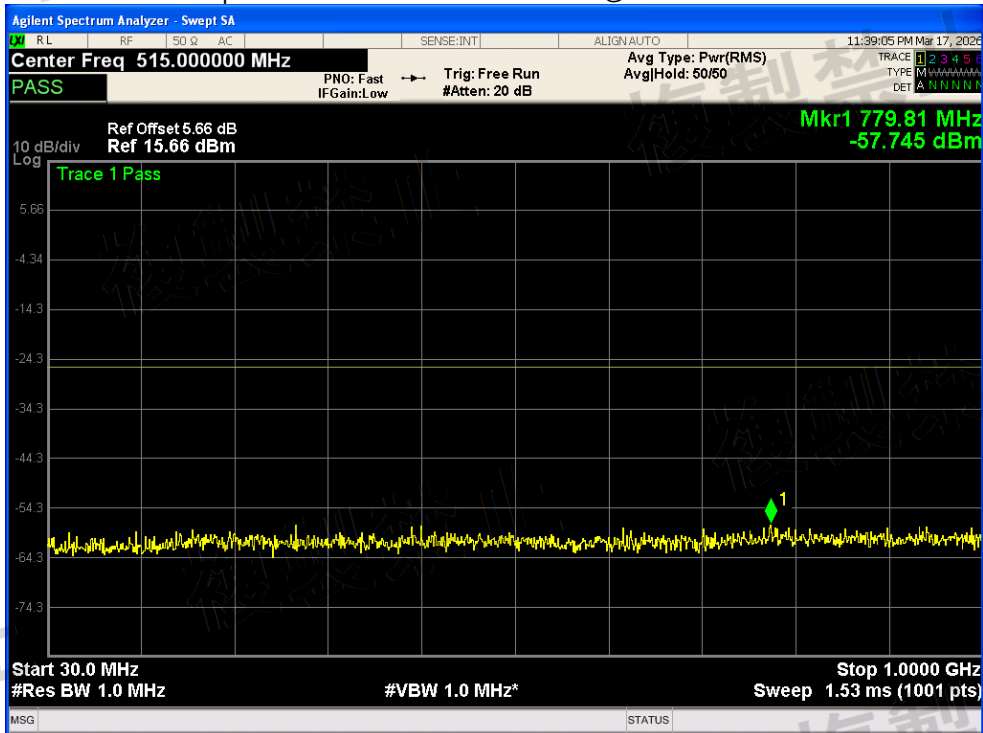
Tx. Spurious NVNT ax20 2442MHz Ant1 @ 2483.5MHz-2496.5MHz



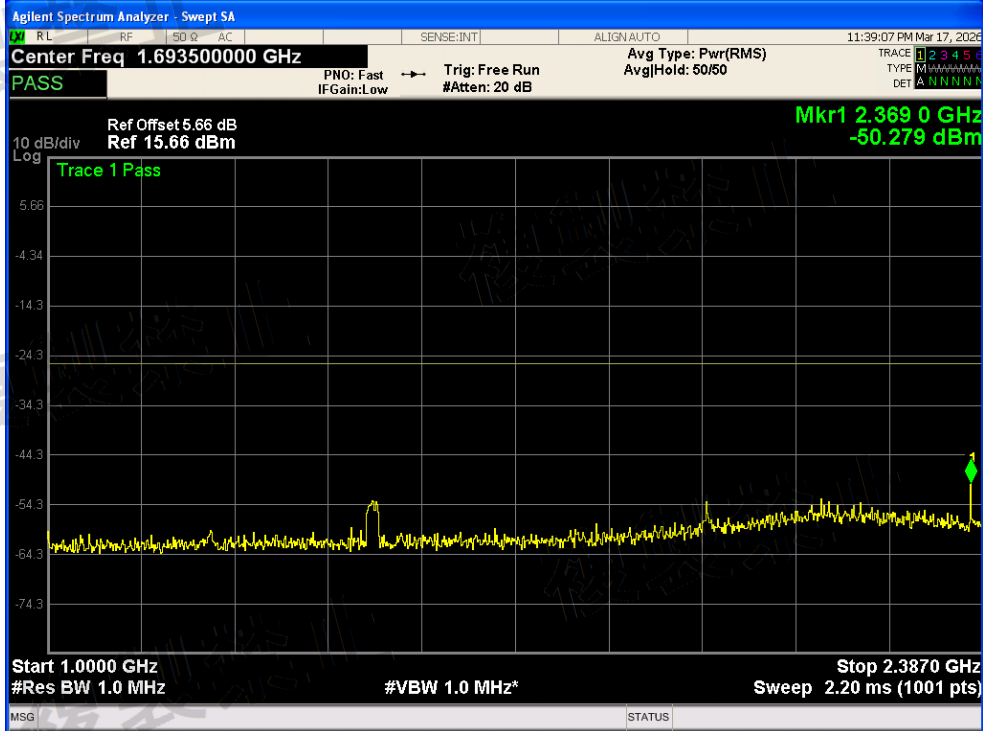
Tx. Spurious NVNT ax20 2442MHz Ant1 @ 2496.5MHz-13000MHz



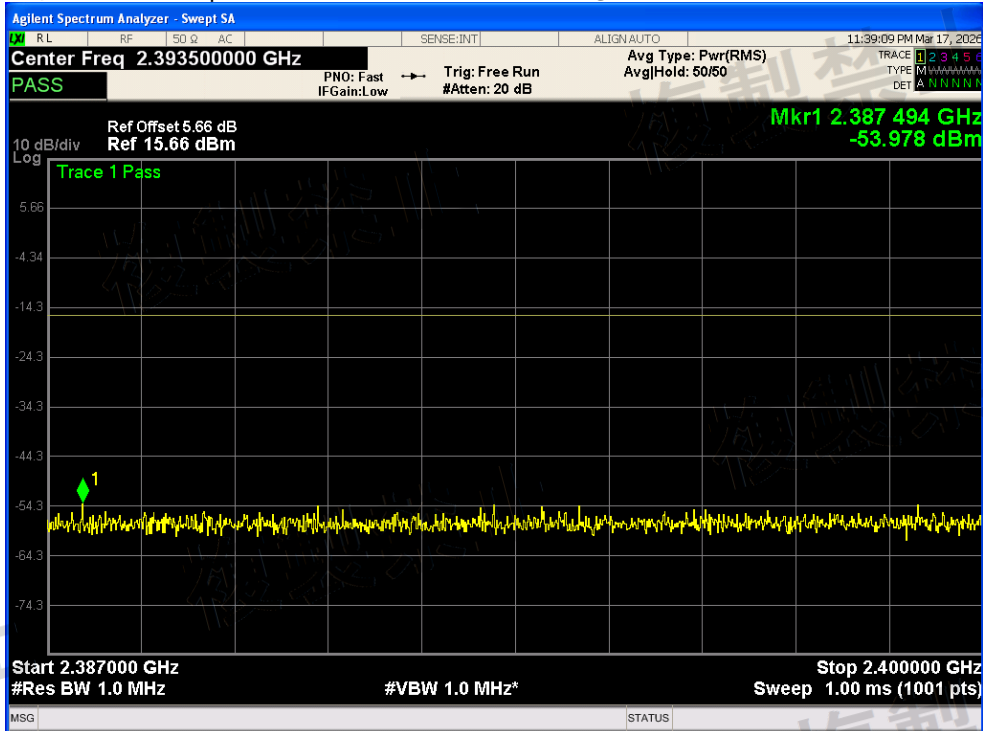
Tx. Spurious NVNT ax20 2472MHz Ant1 @ 30MHz-1000MHz



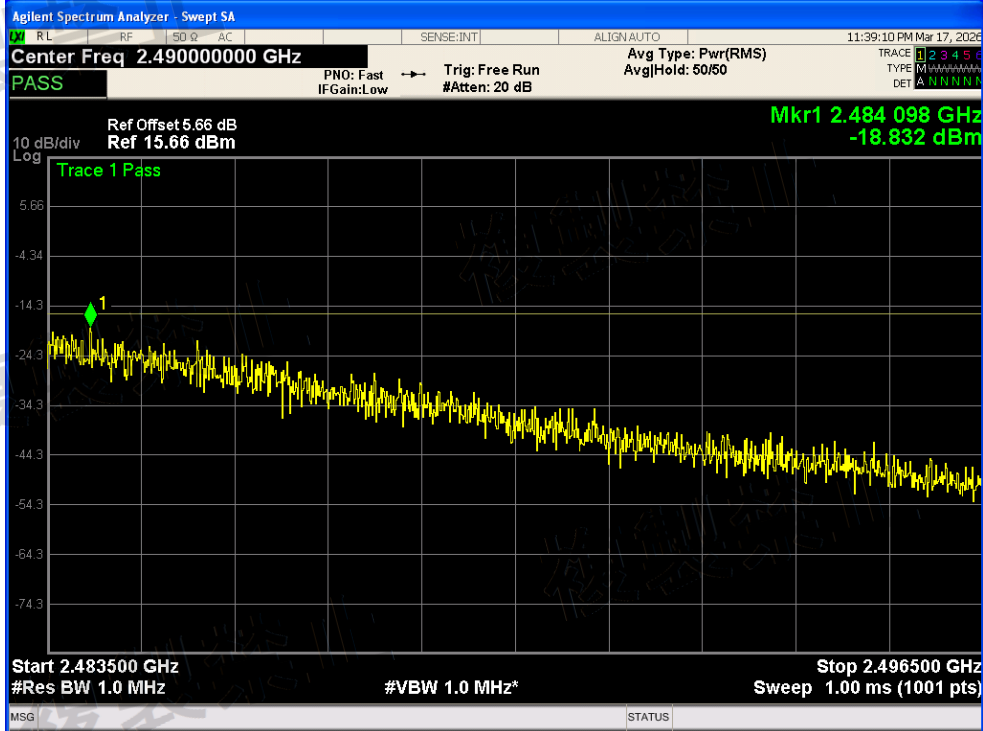
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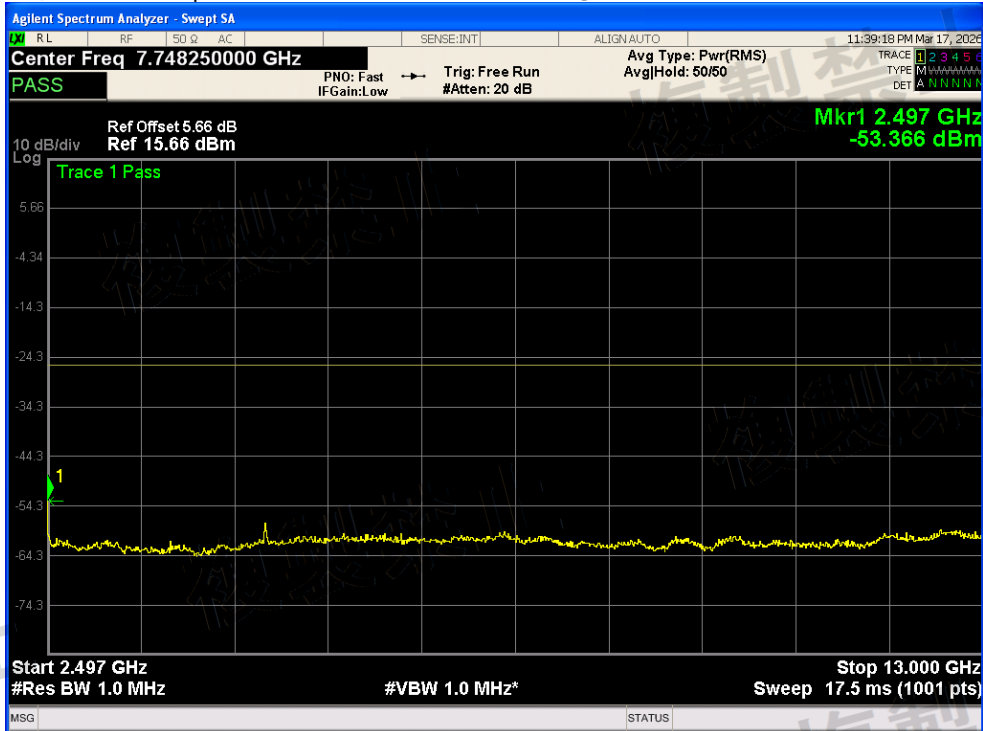
Tx. Spurious NVNT ax20 2472MHz Ant1 @ 2387MHz-2400MHz



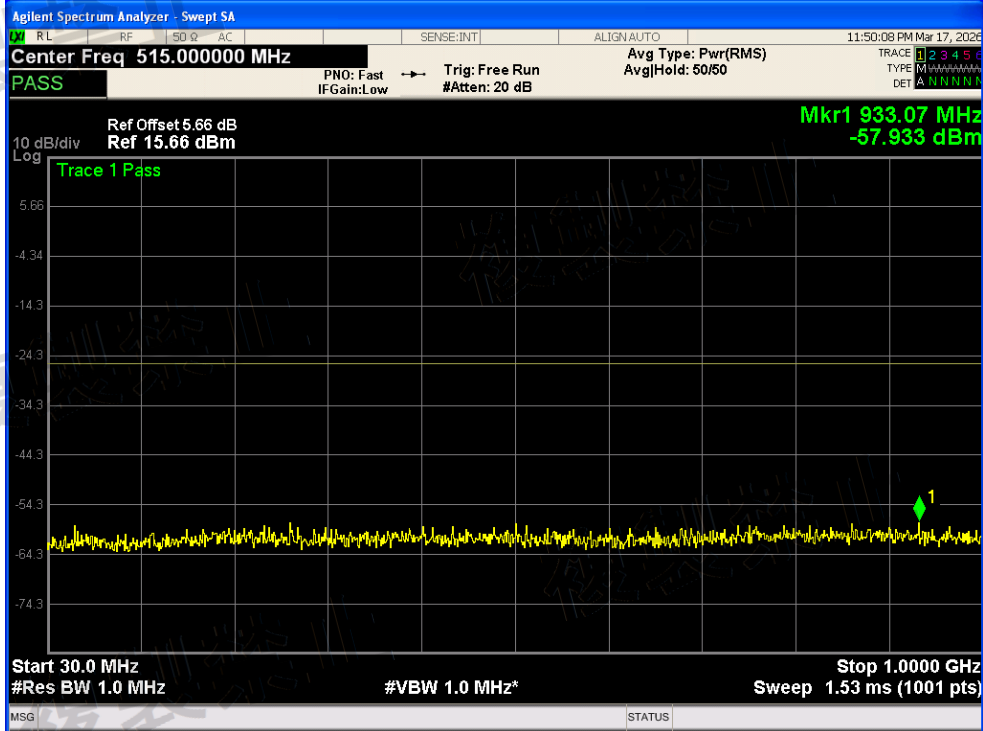
Tx. Spurious NVNT ax20 2472MHz Ant1 @ 2483.5MHz-2496.5MHz



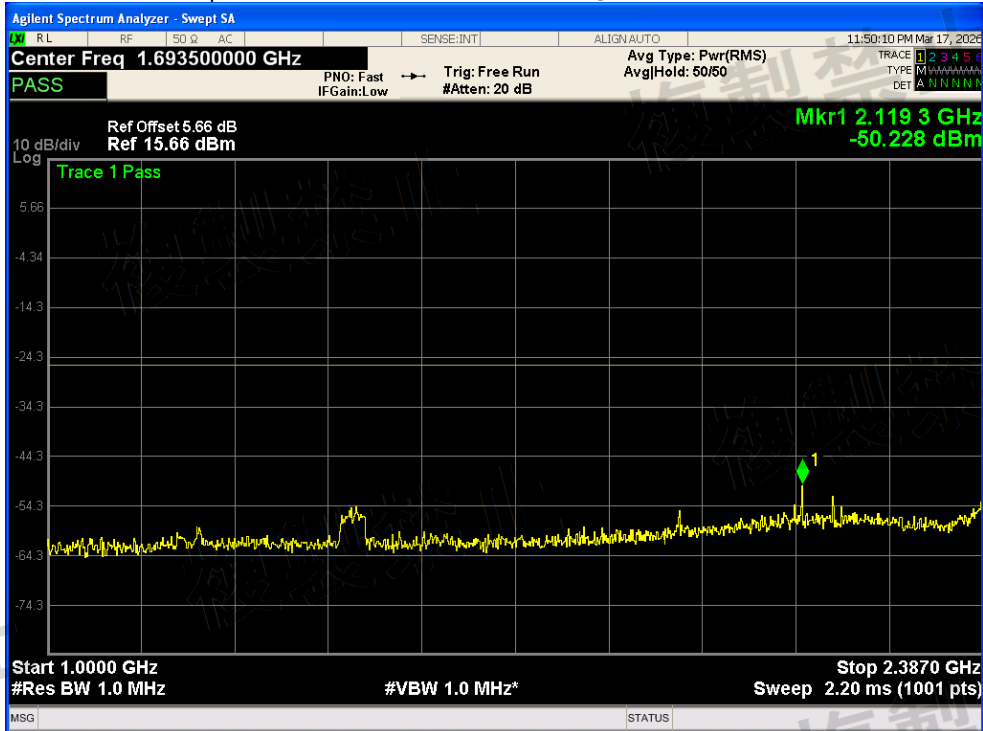
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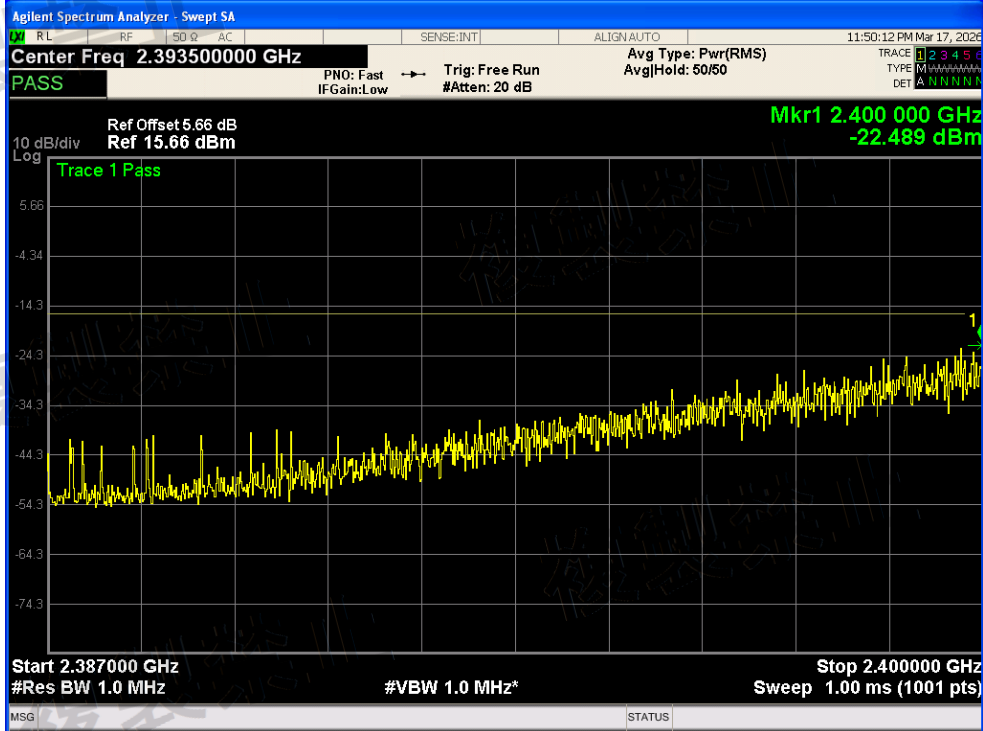
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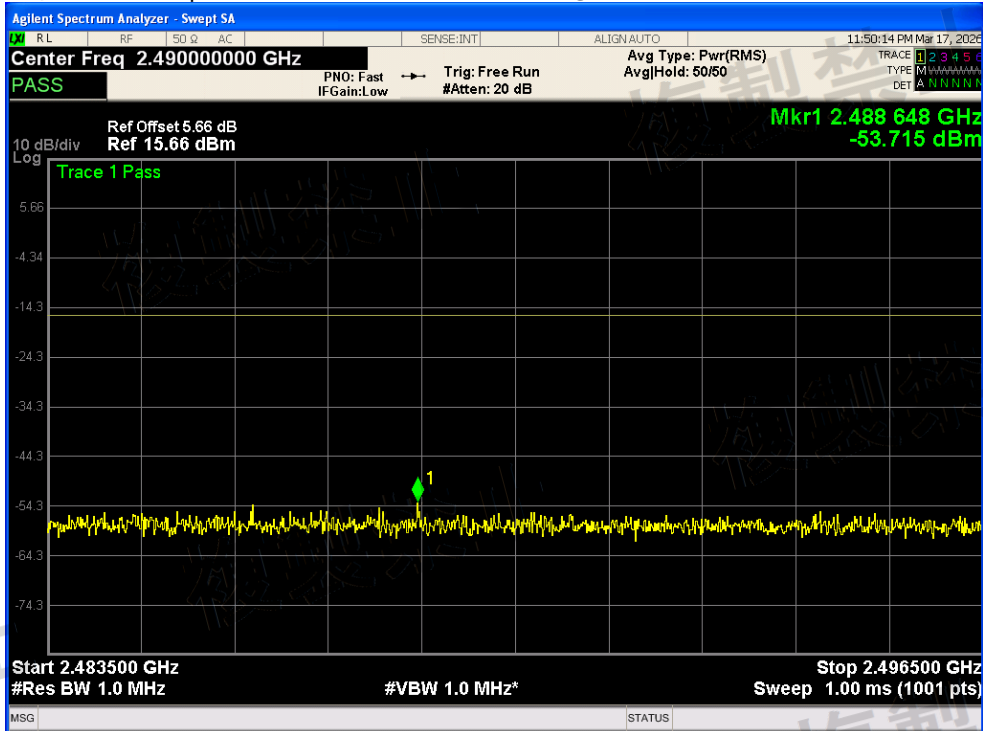
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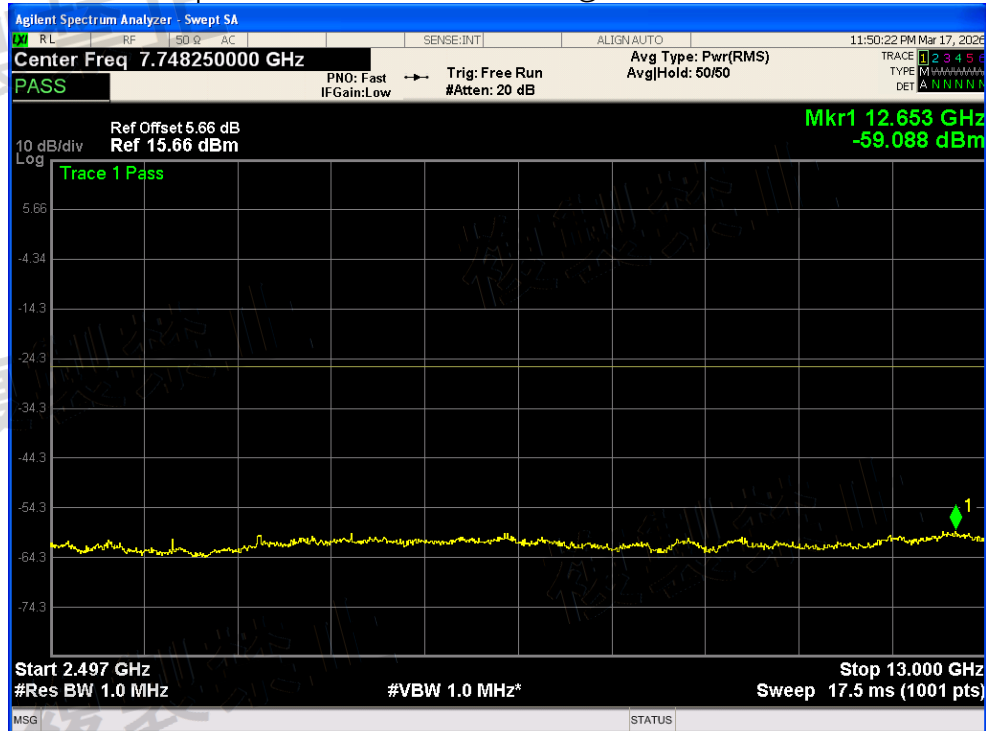
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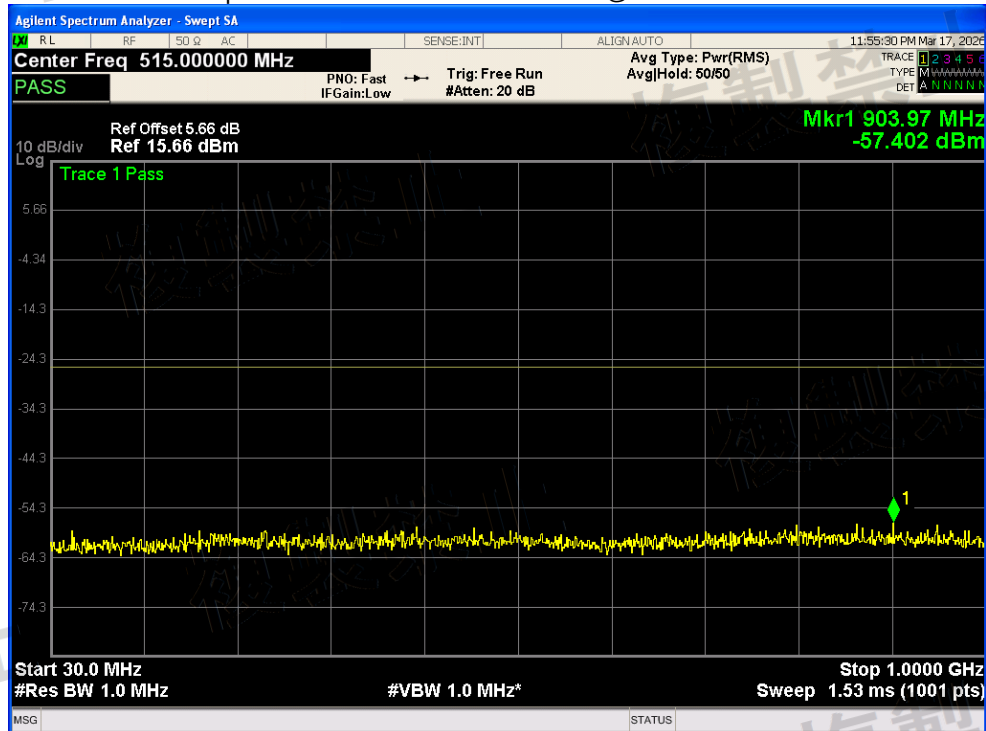
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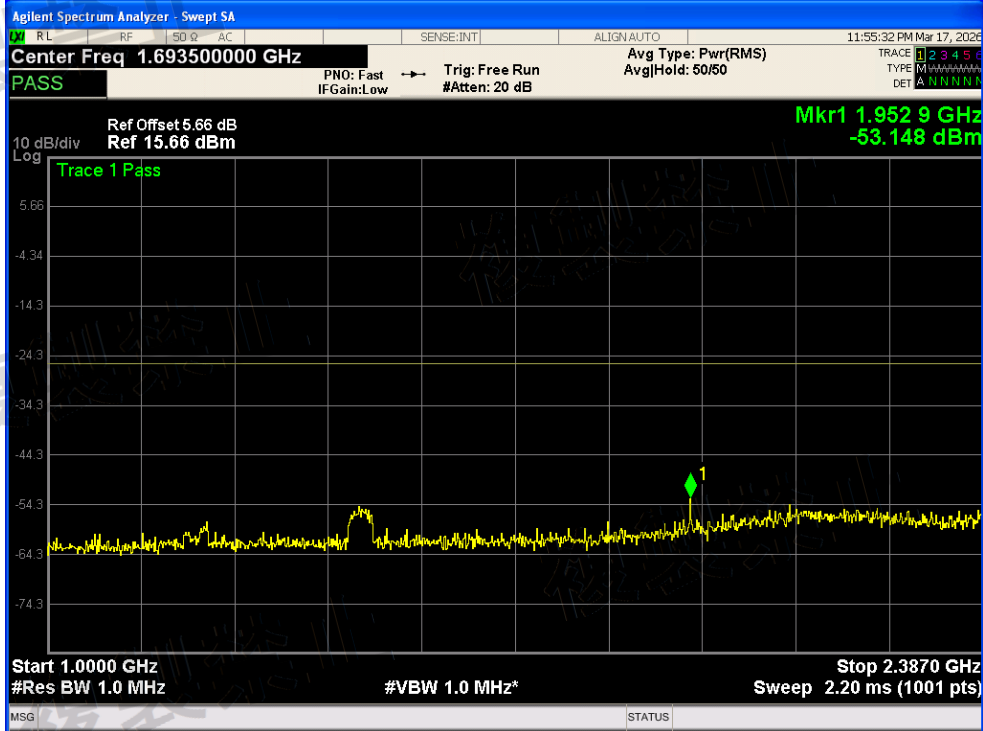
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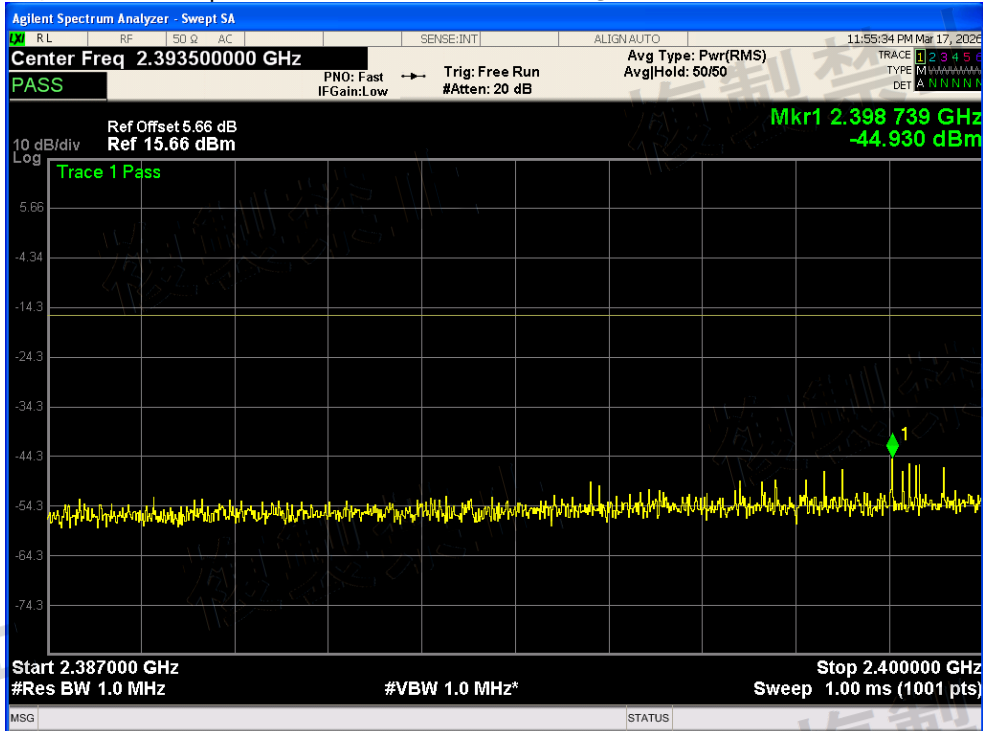
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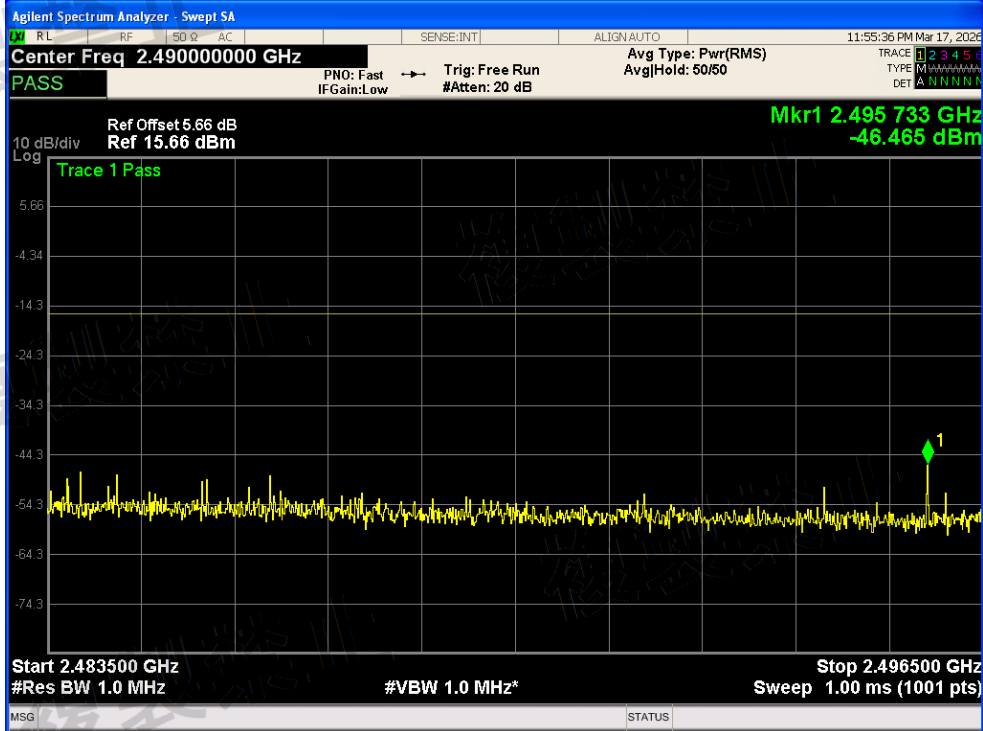
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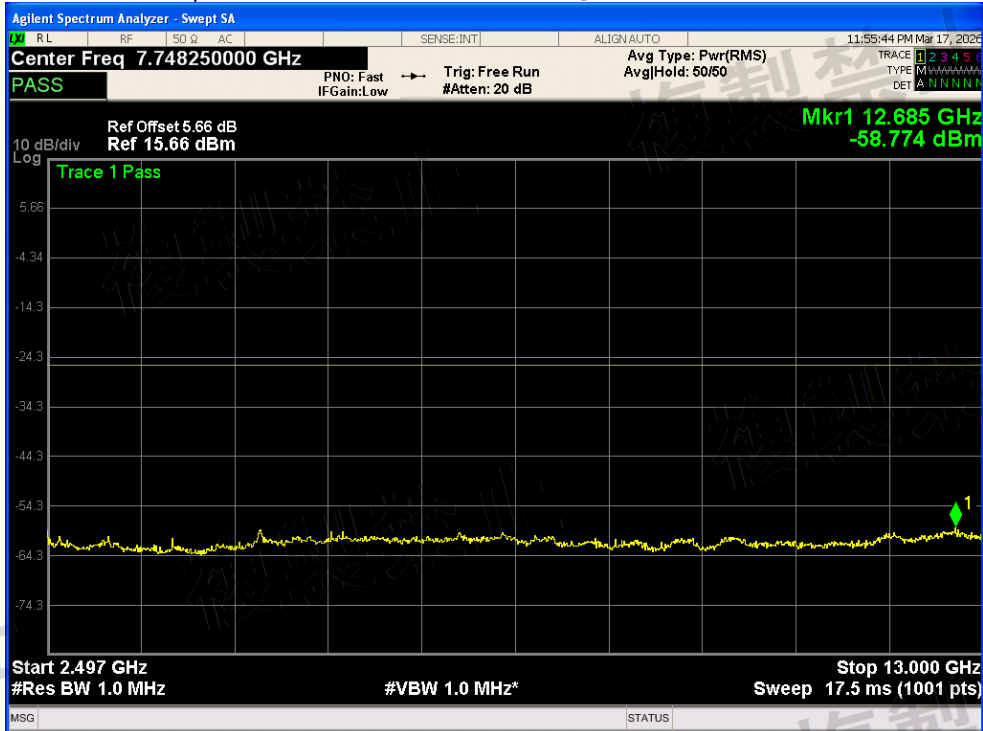
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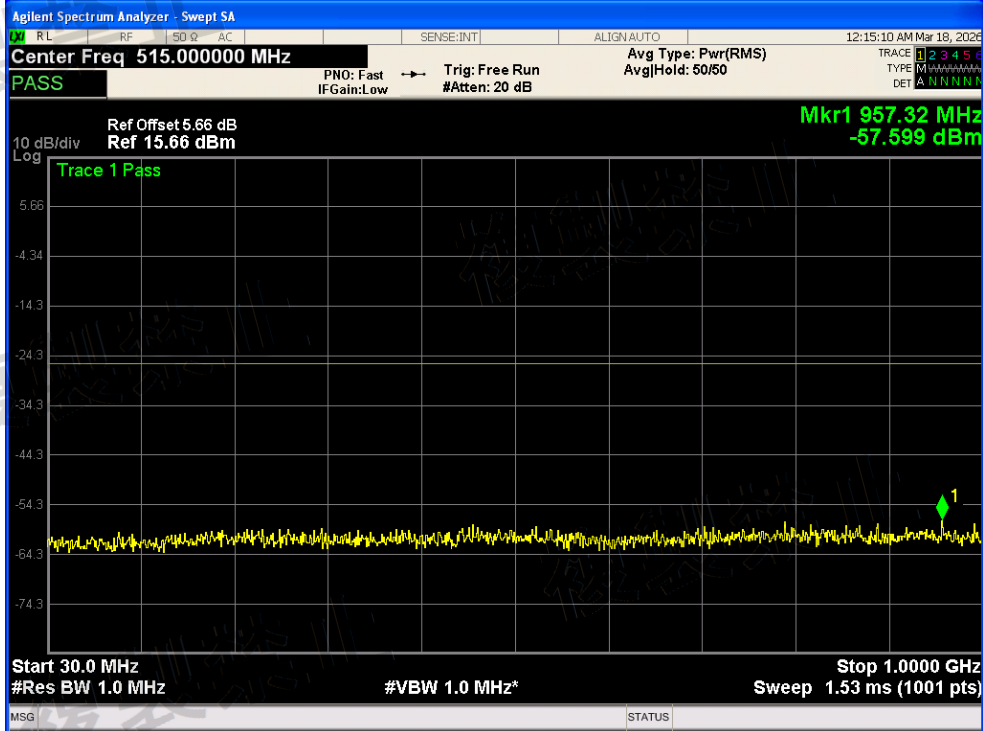
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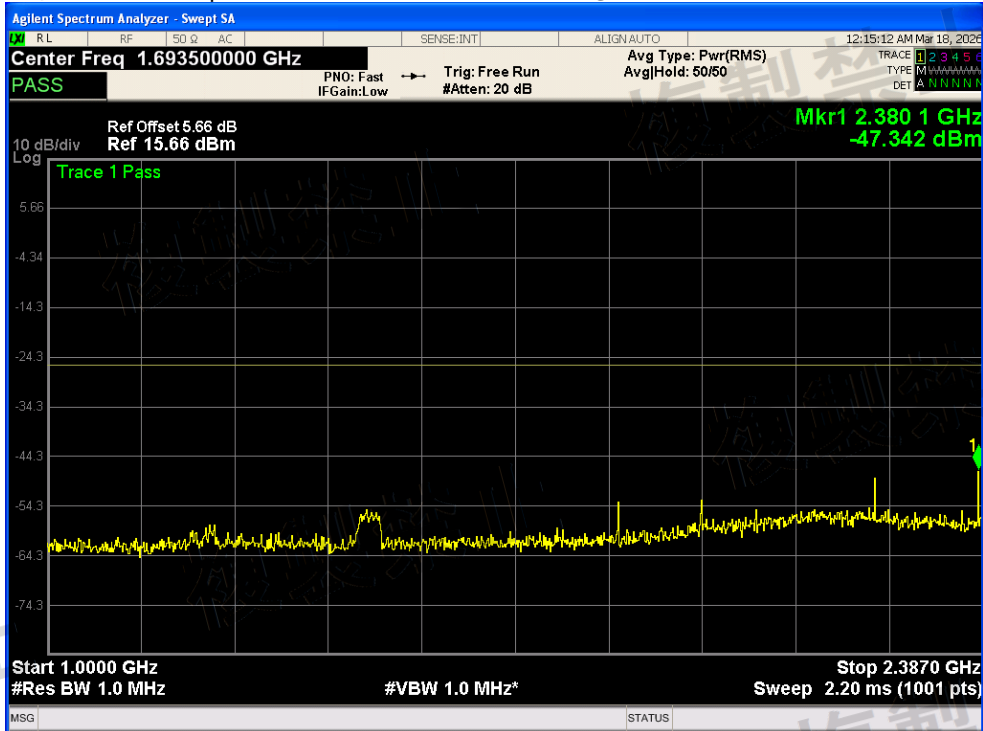
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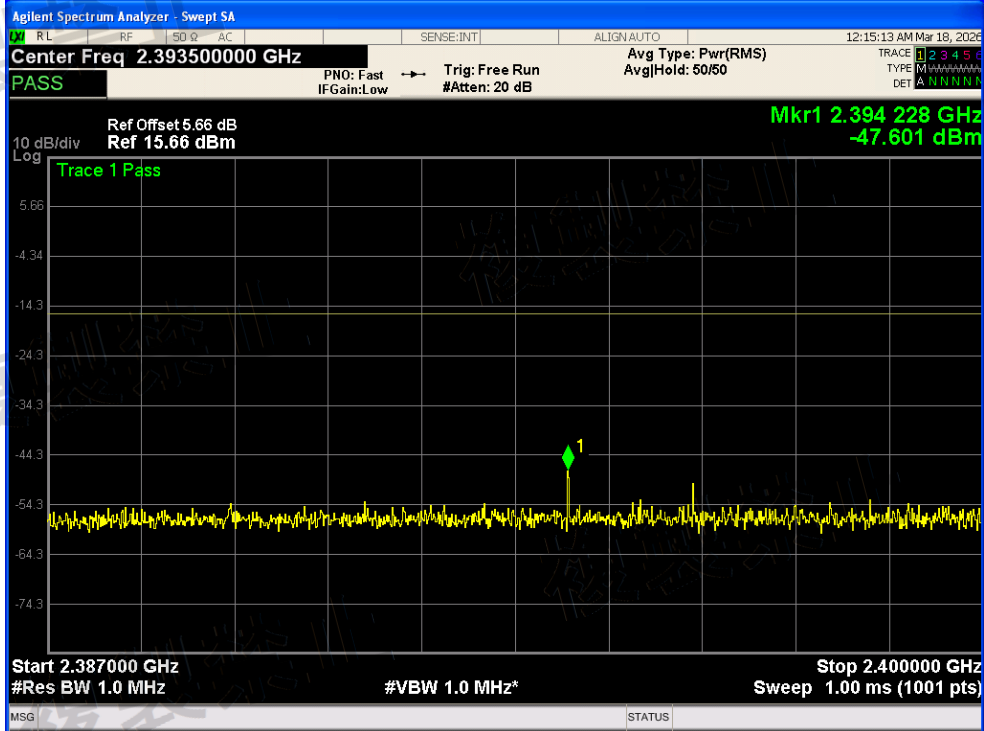
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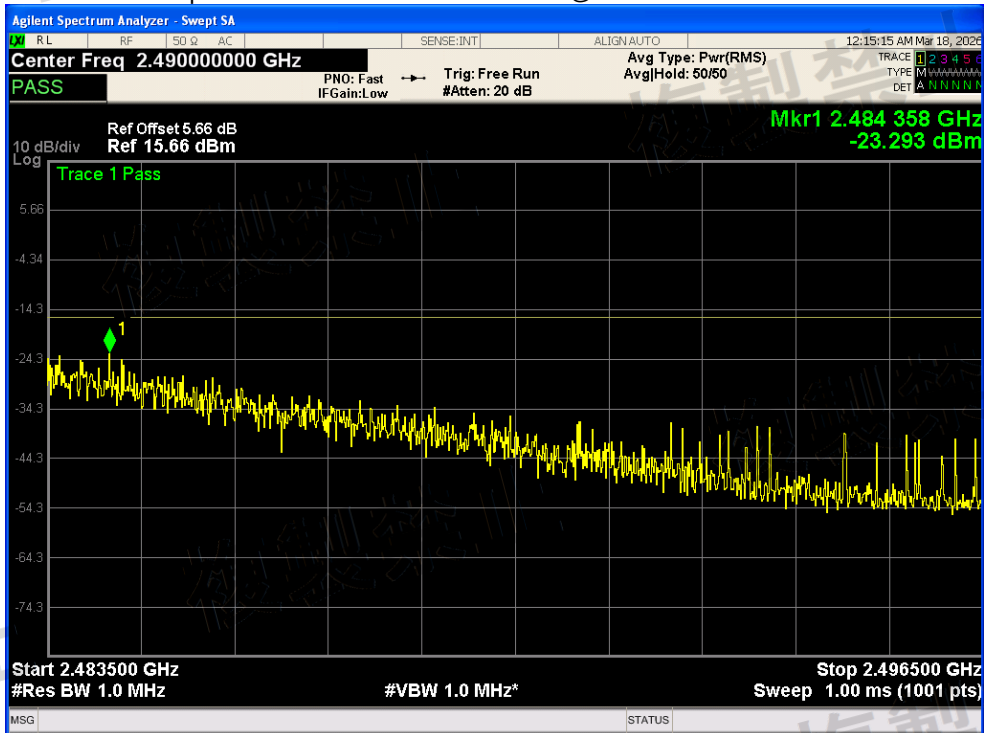
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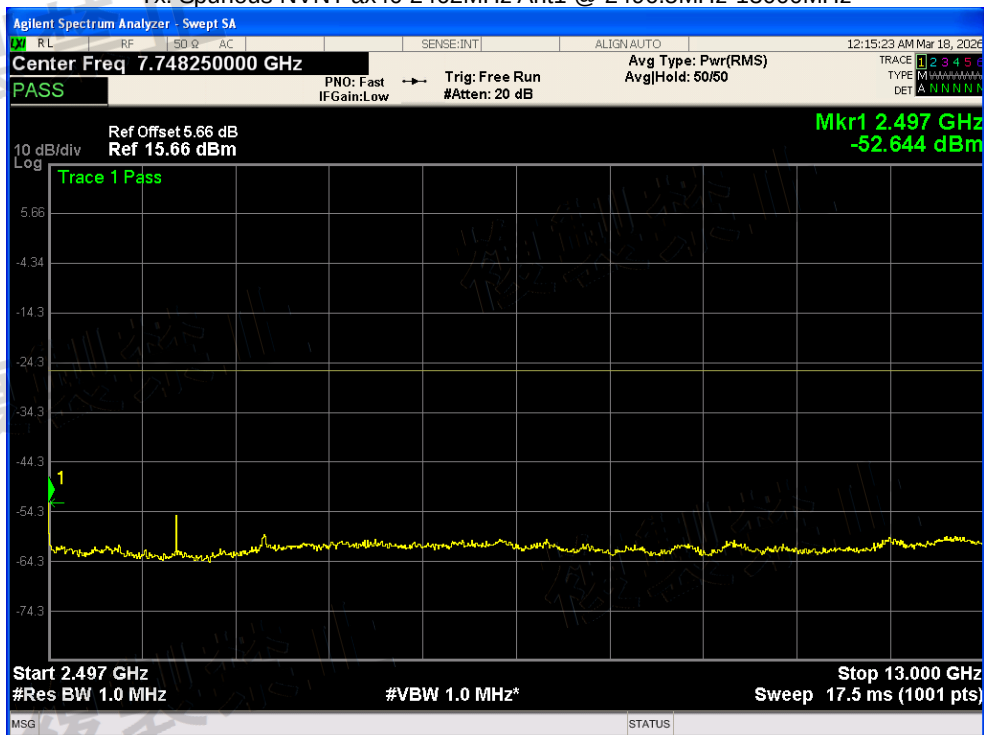
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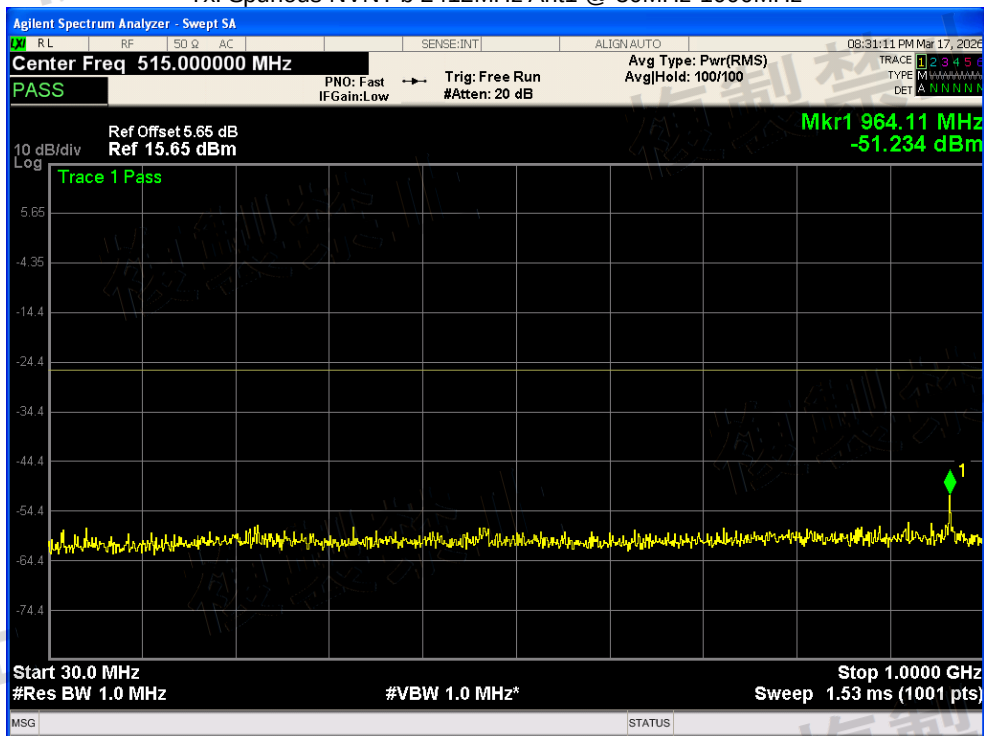
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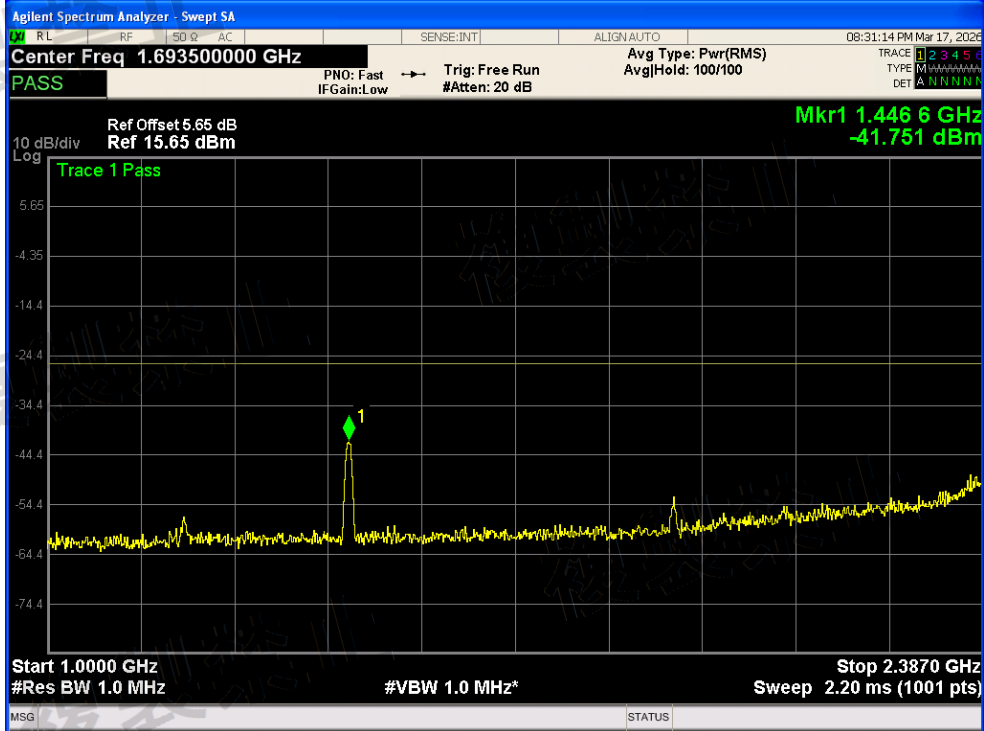
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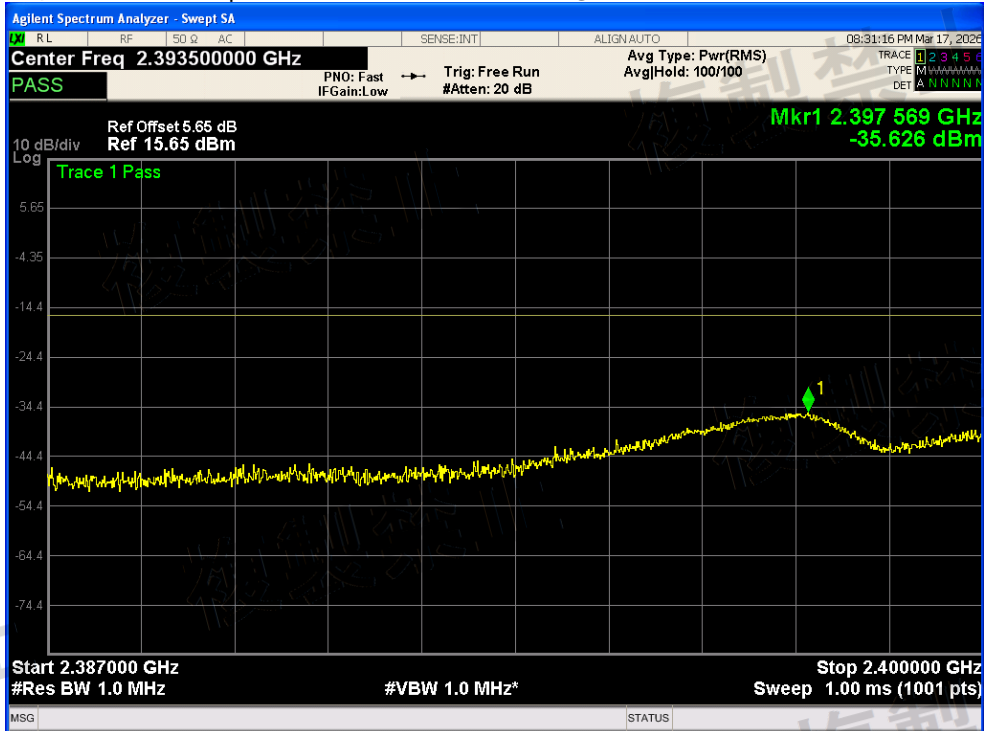
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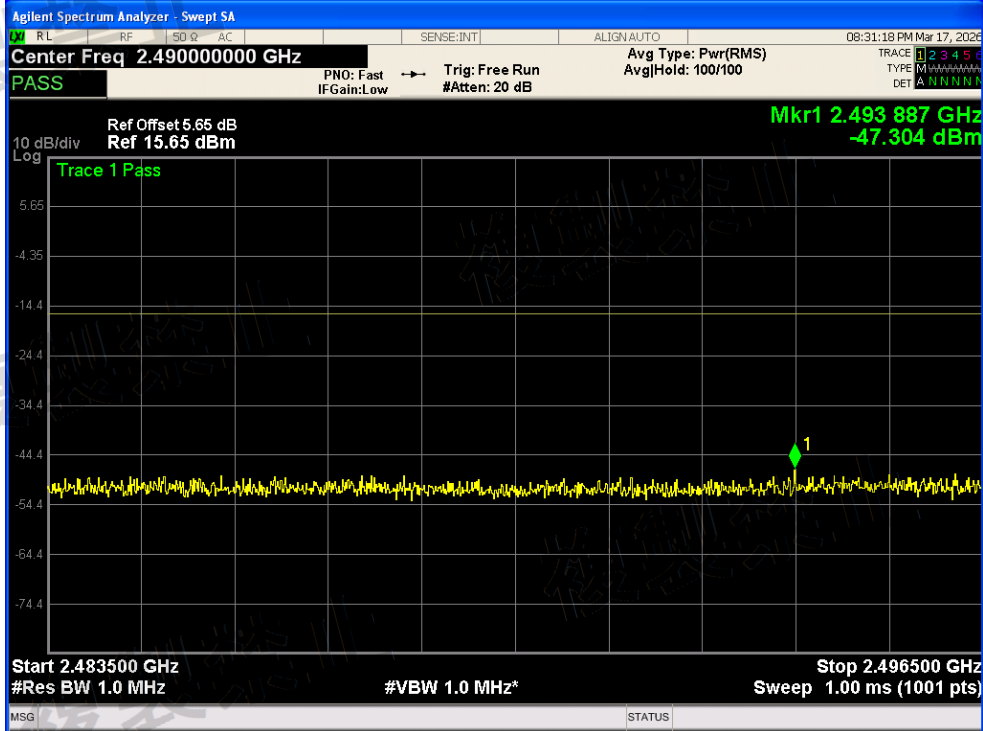
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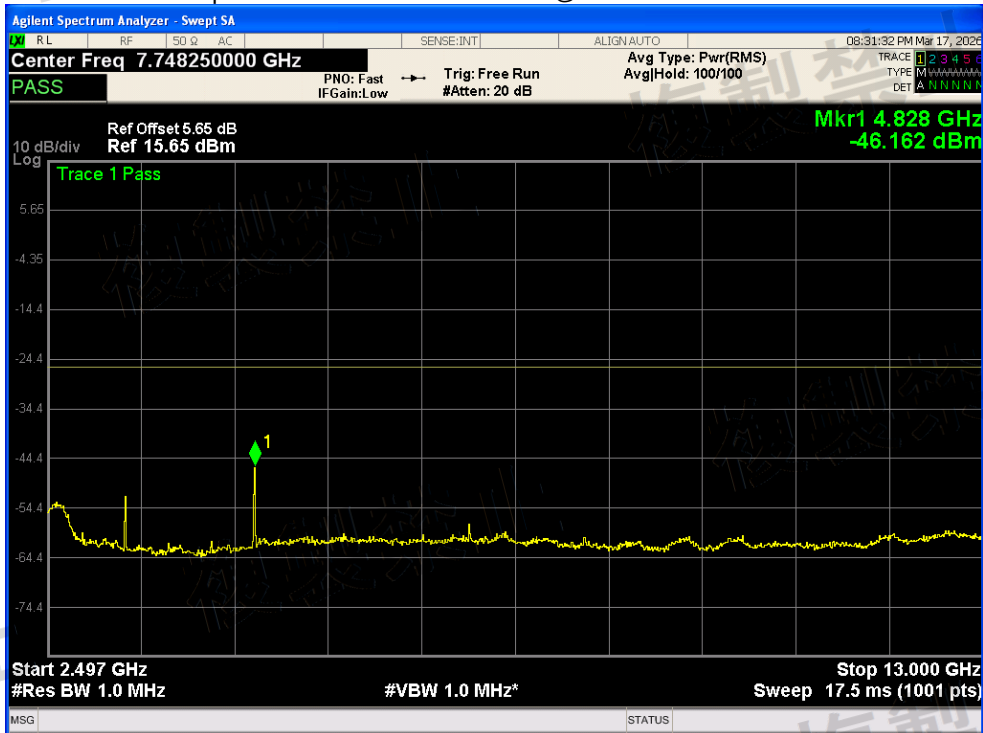
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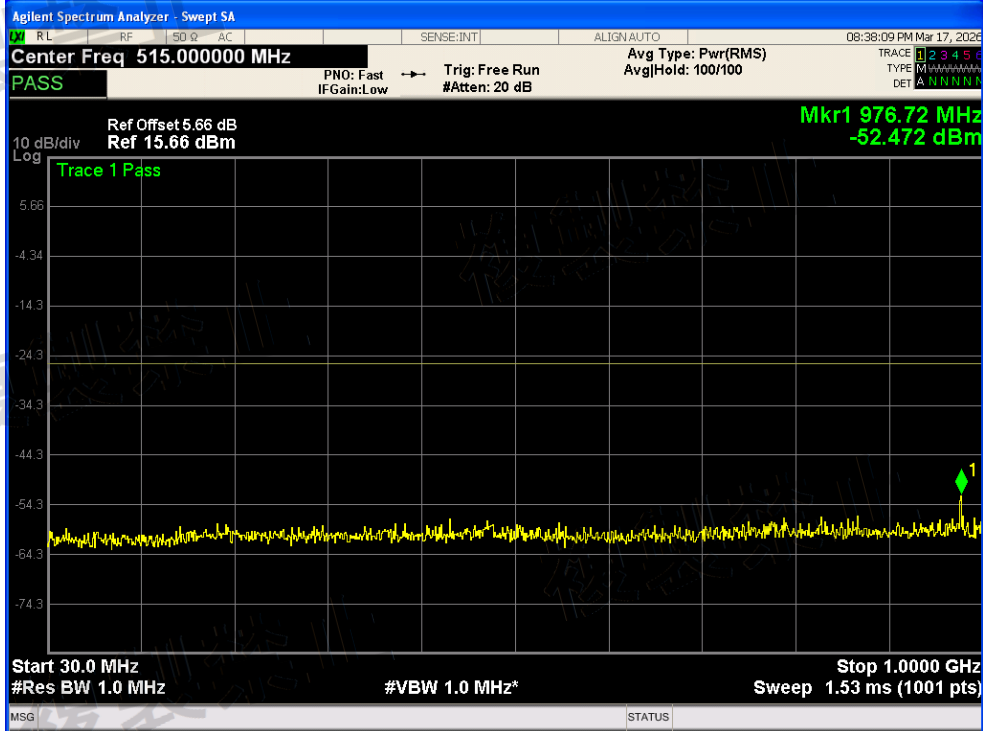
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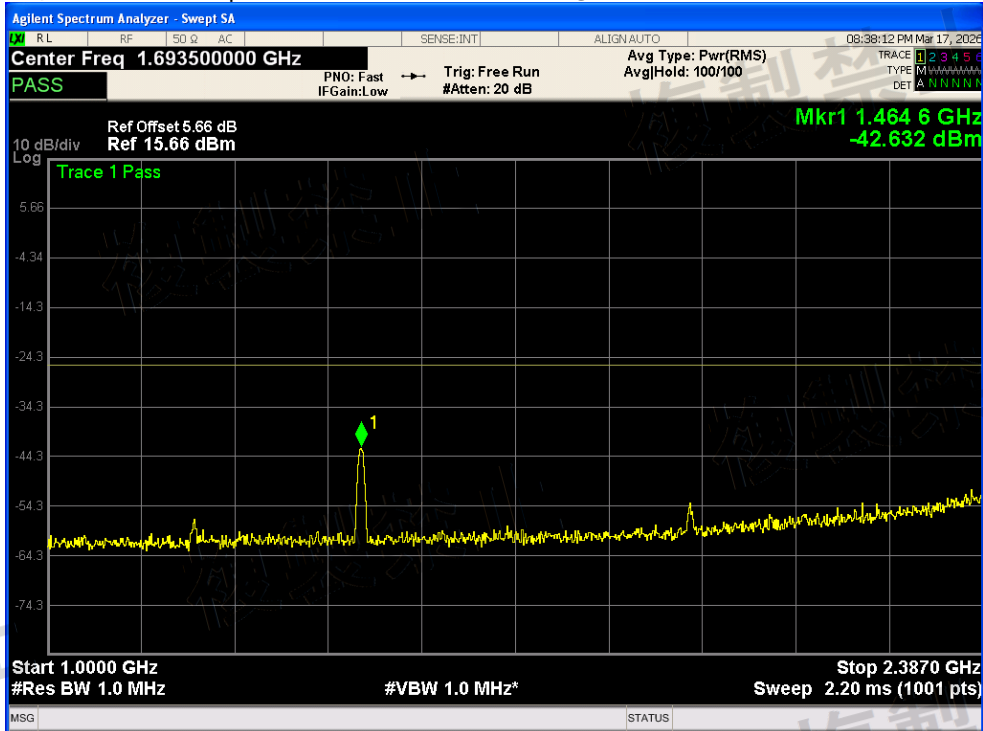
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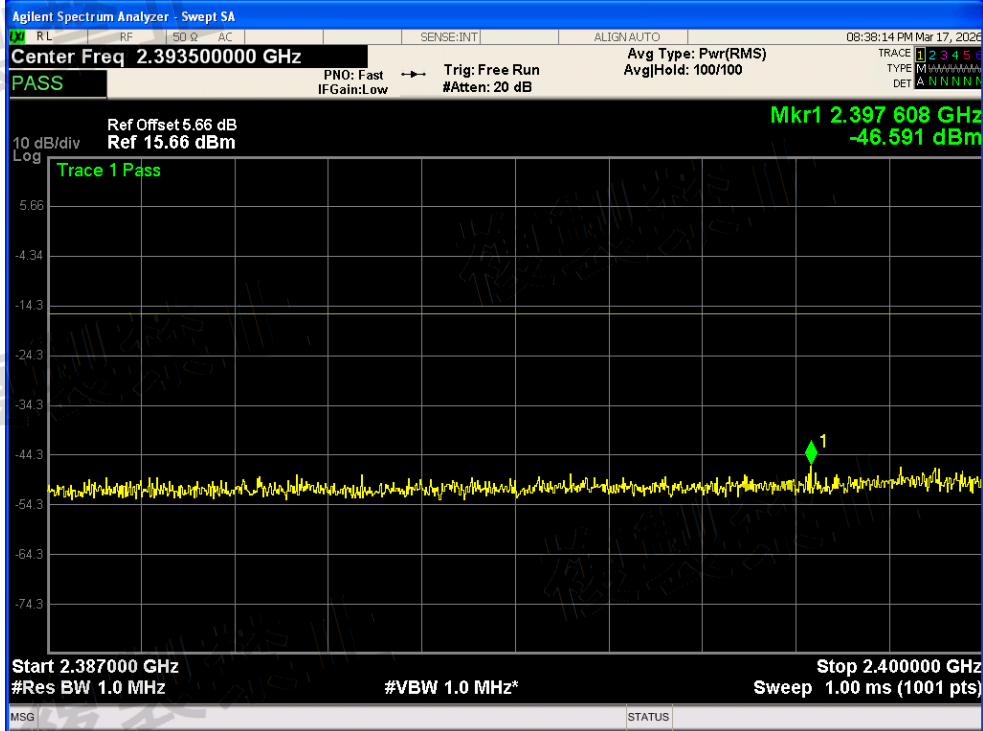
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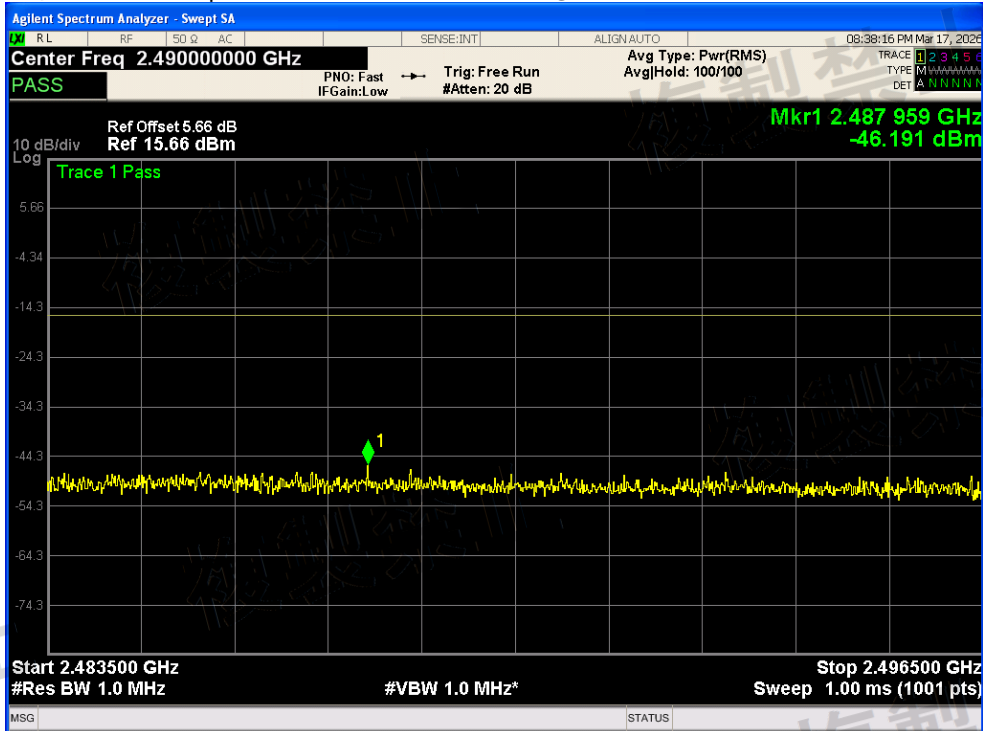
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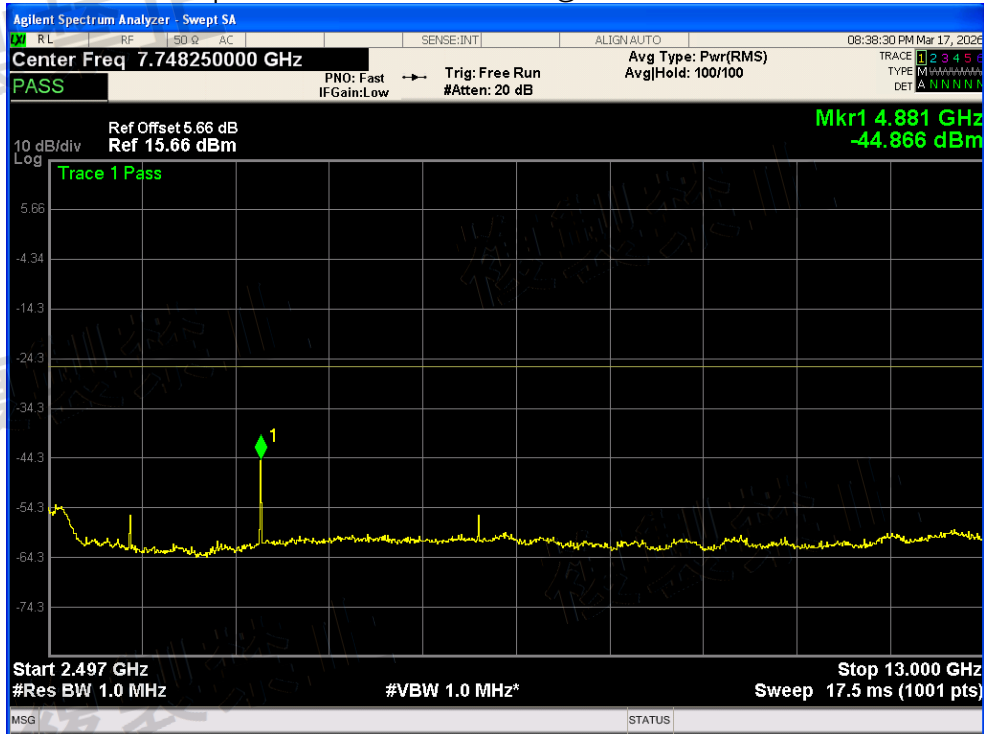
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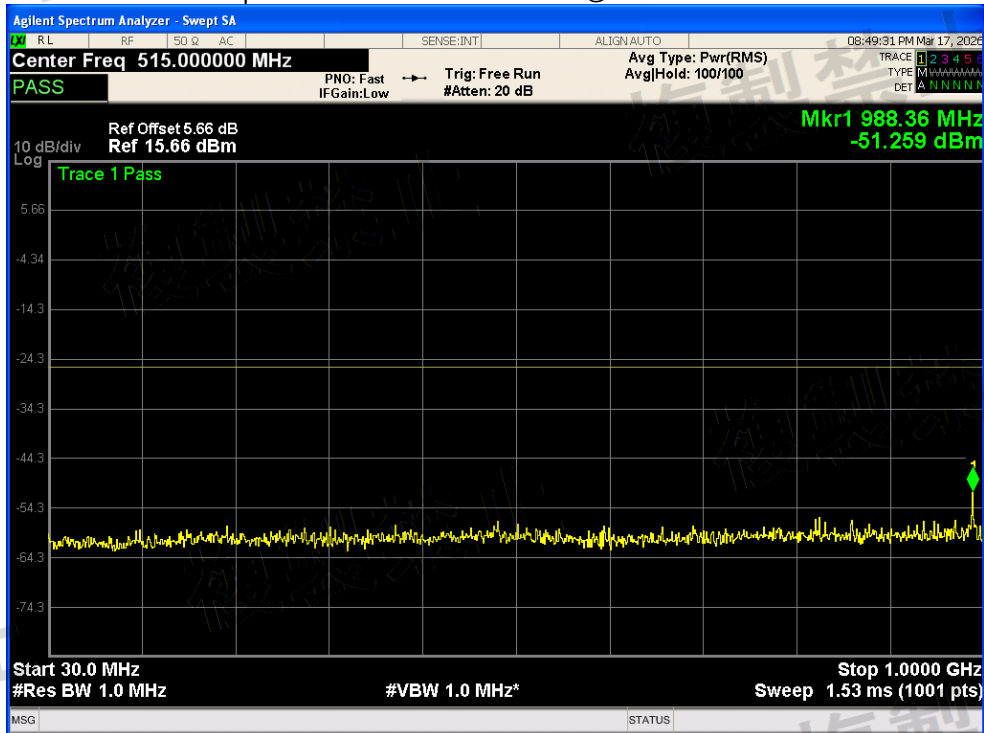
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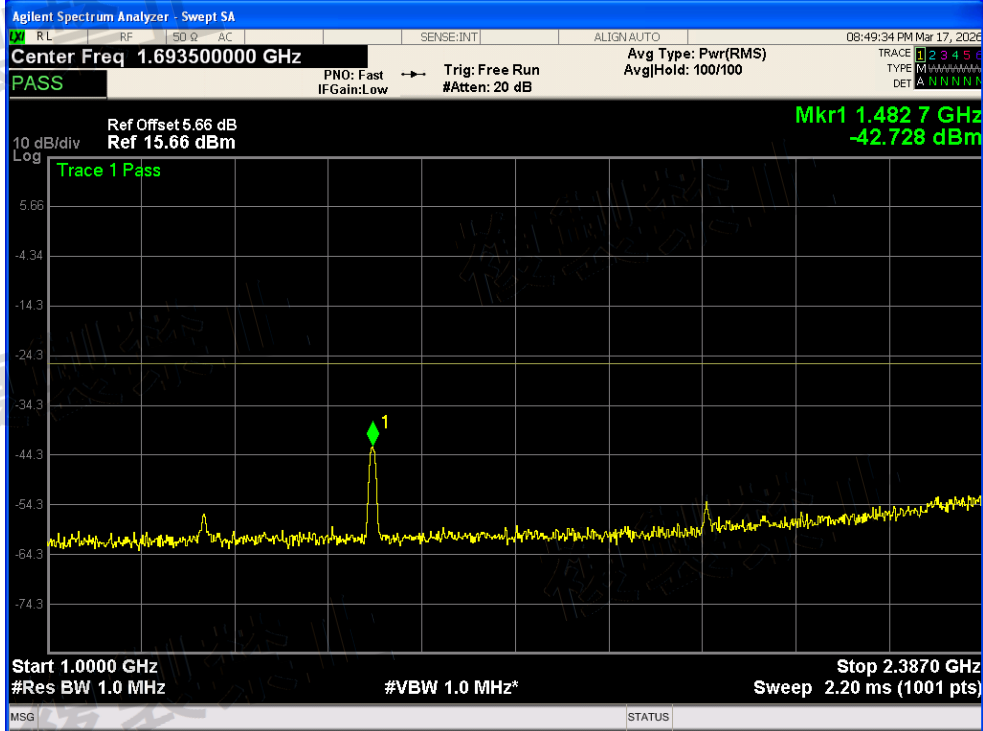
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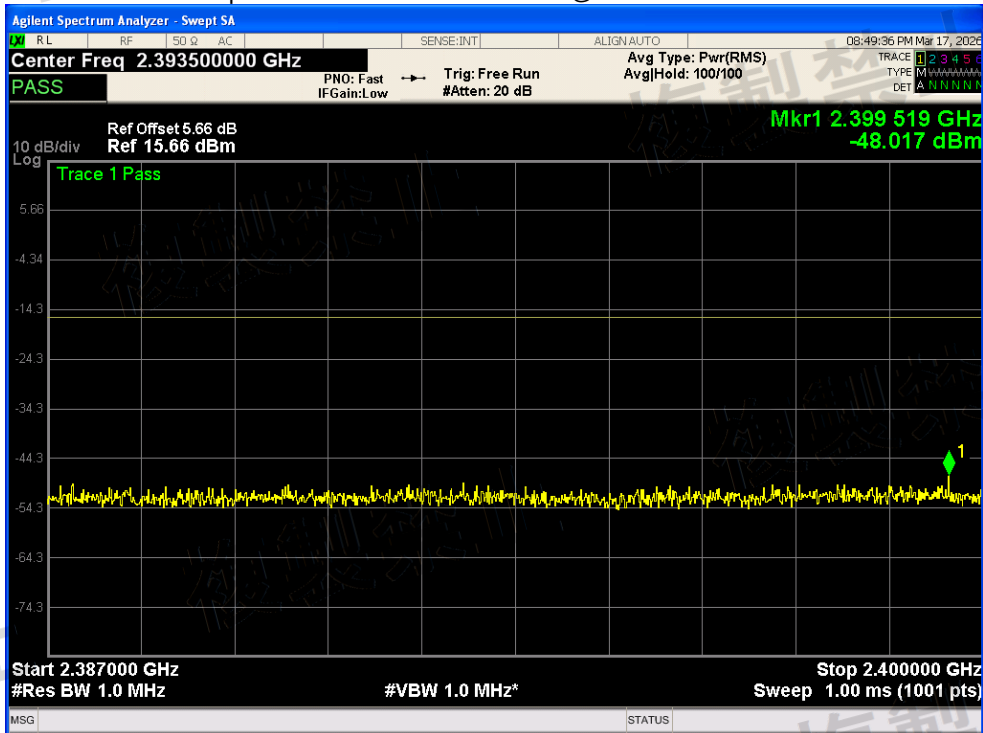
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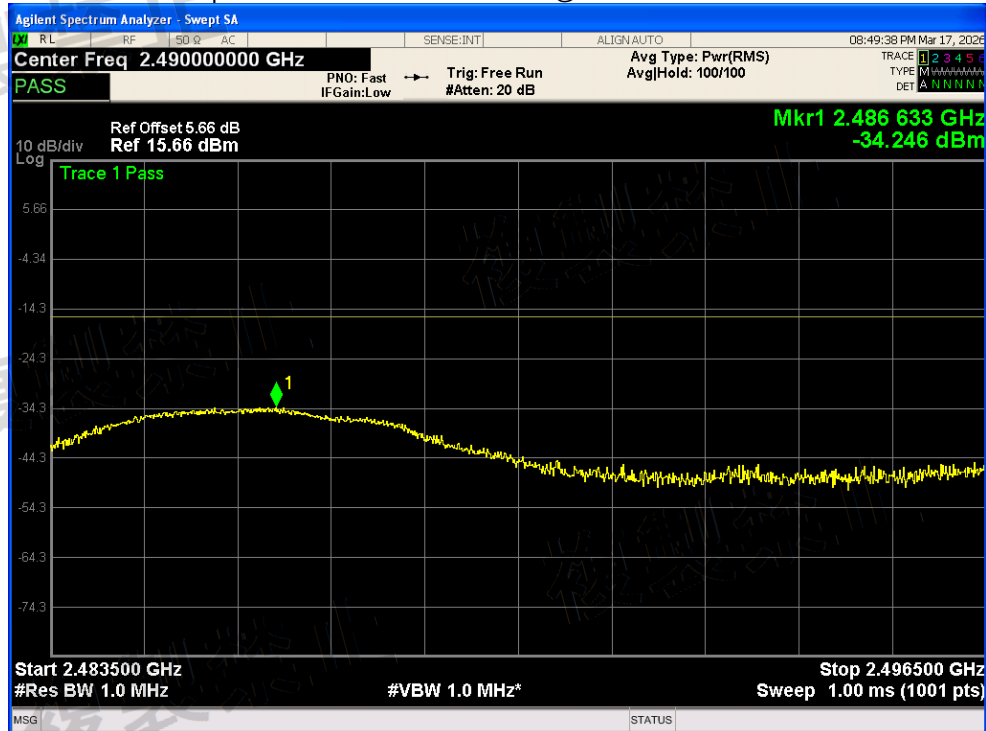
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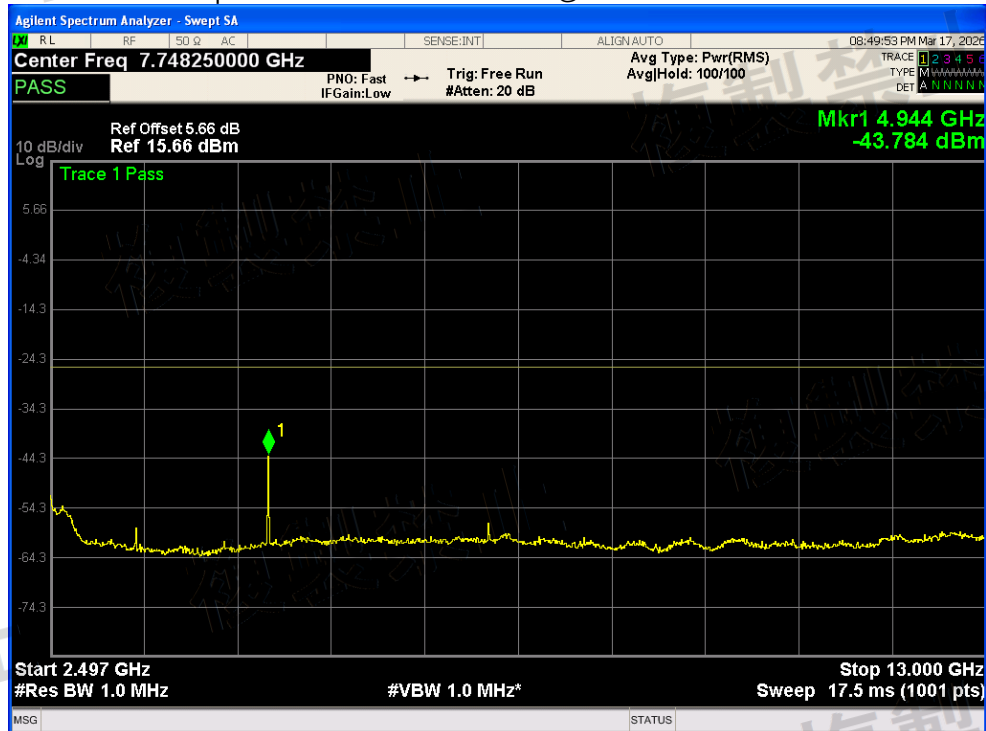
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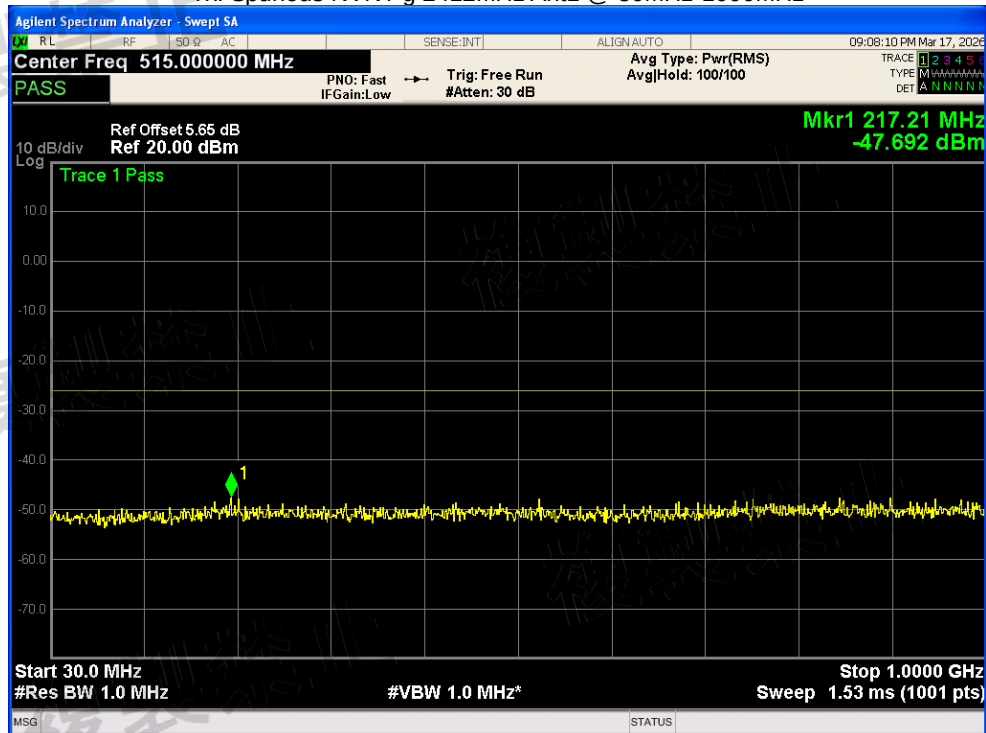
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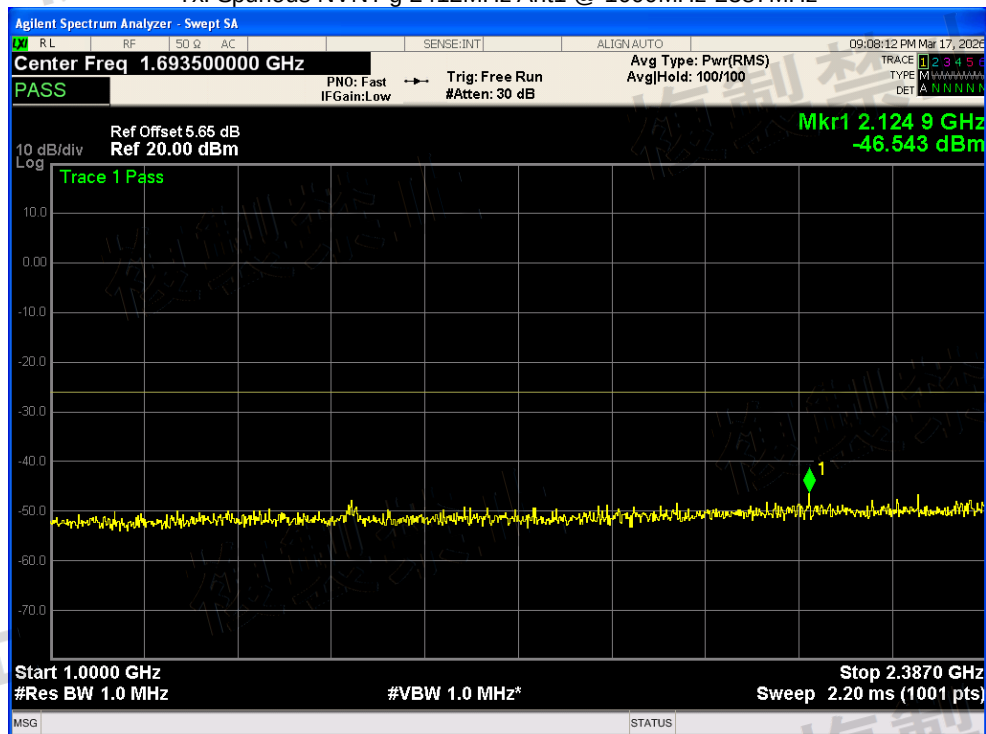
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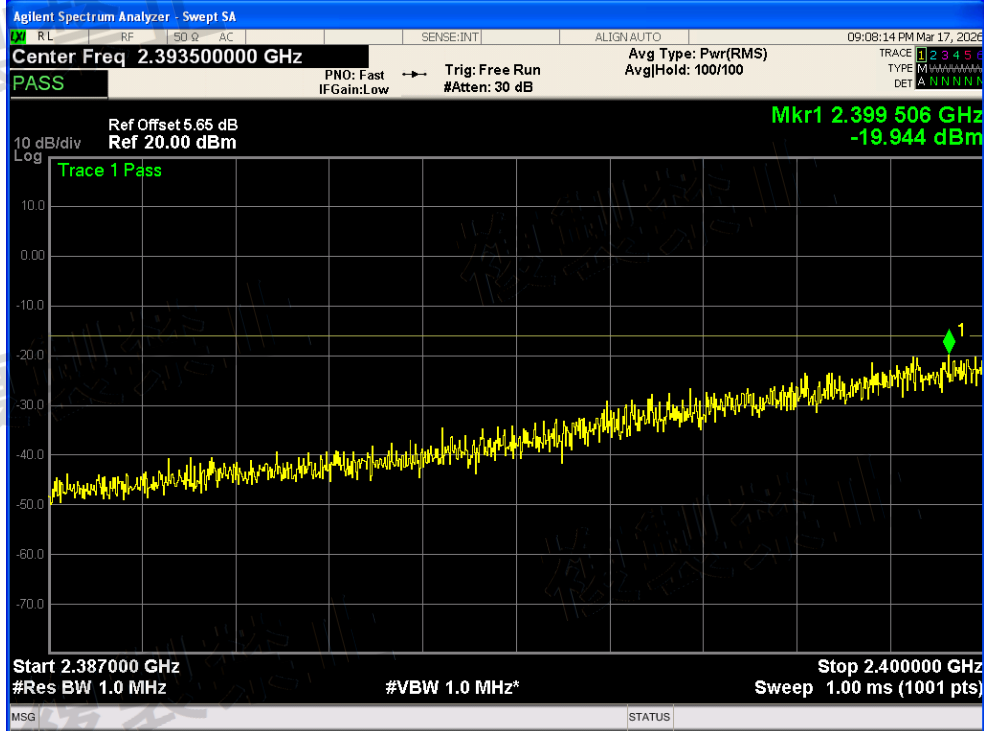
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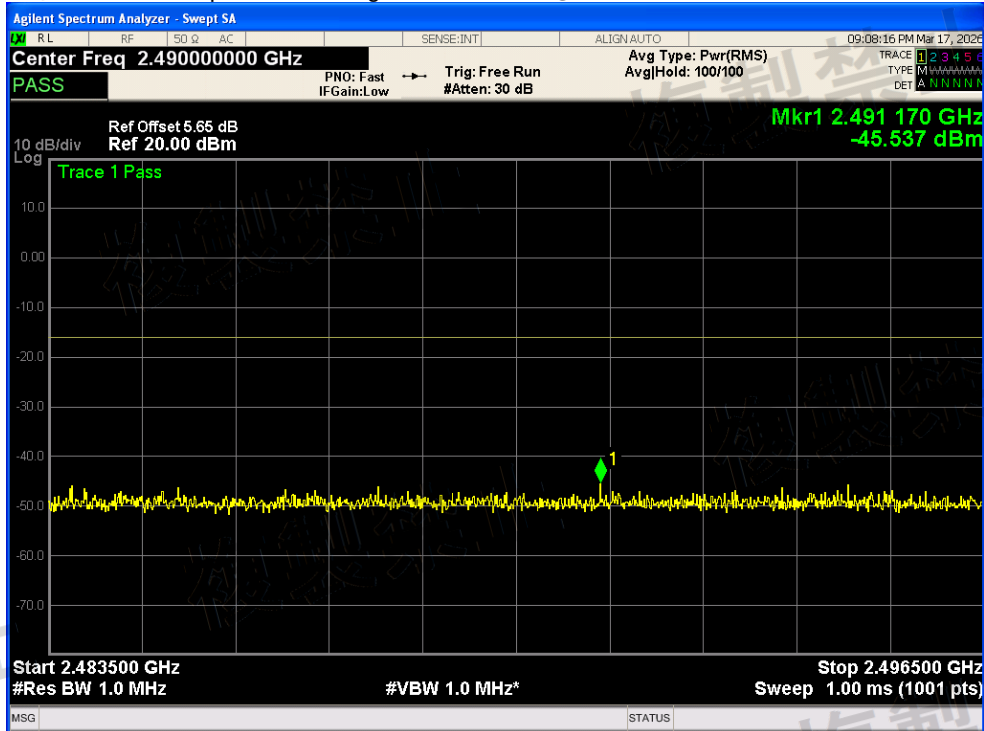
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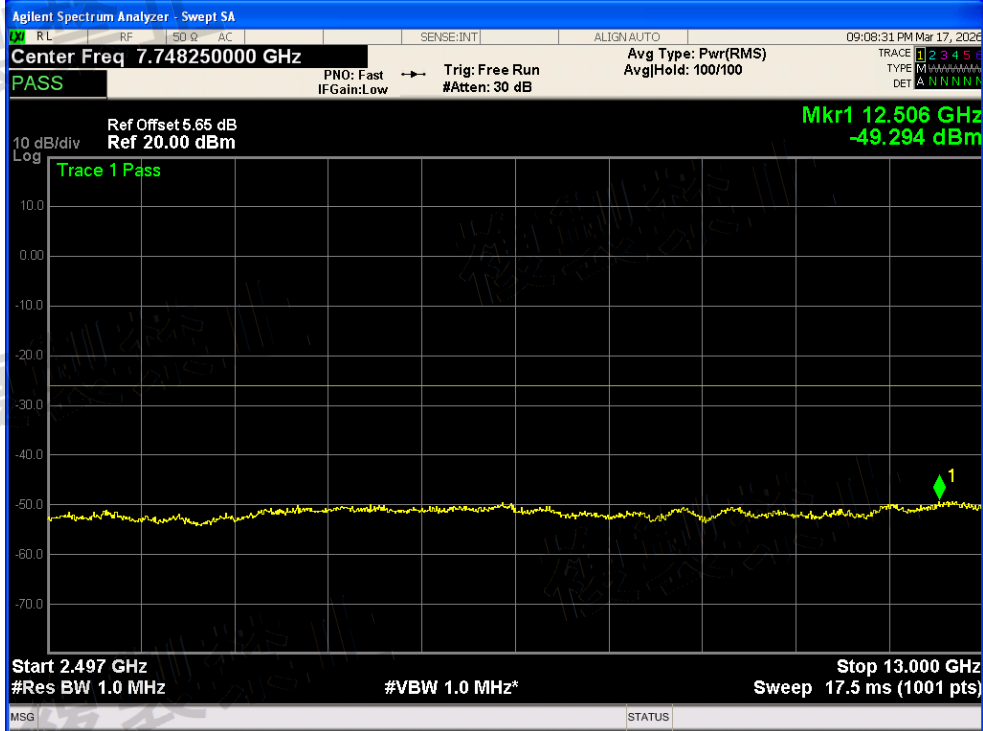
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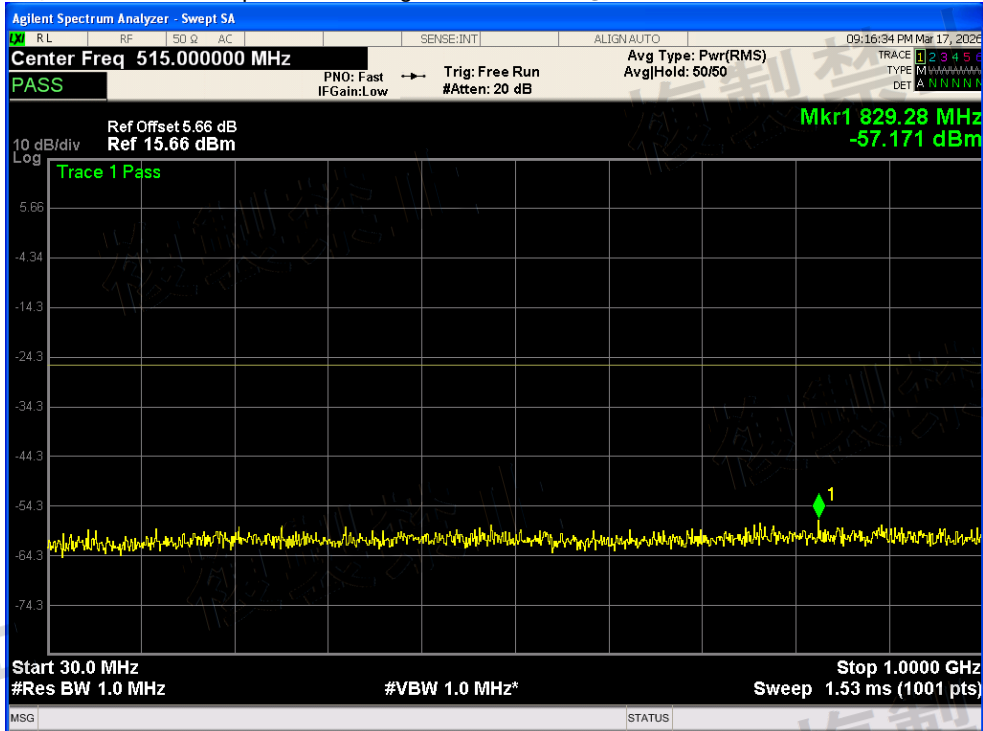
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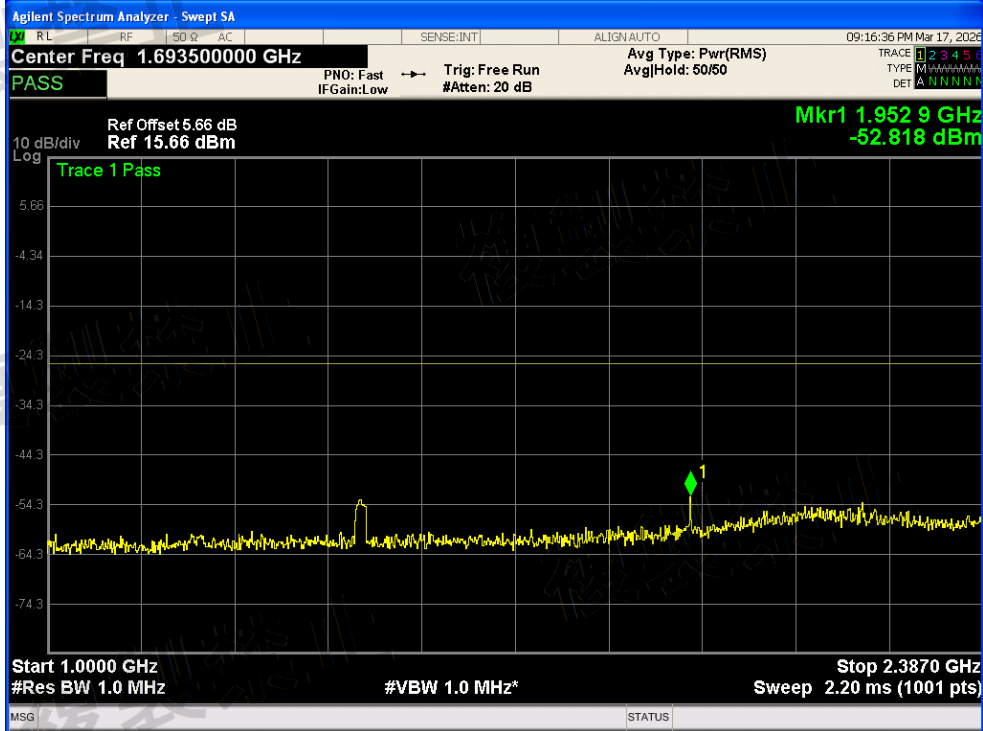
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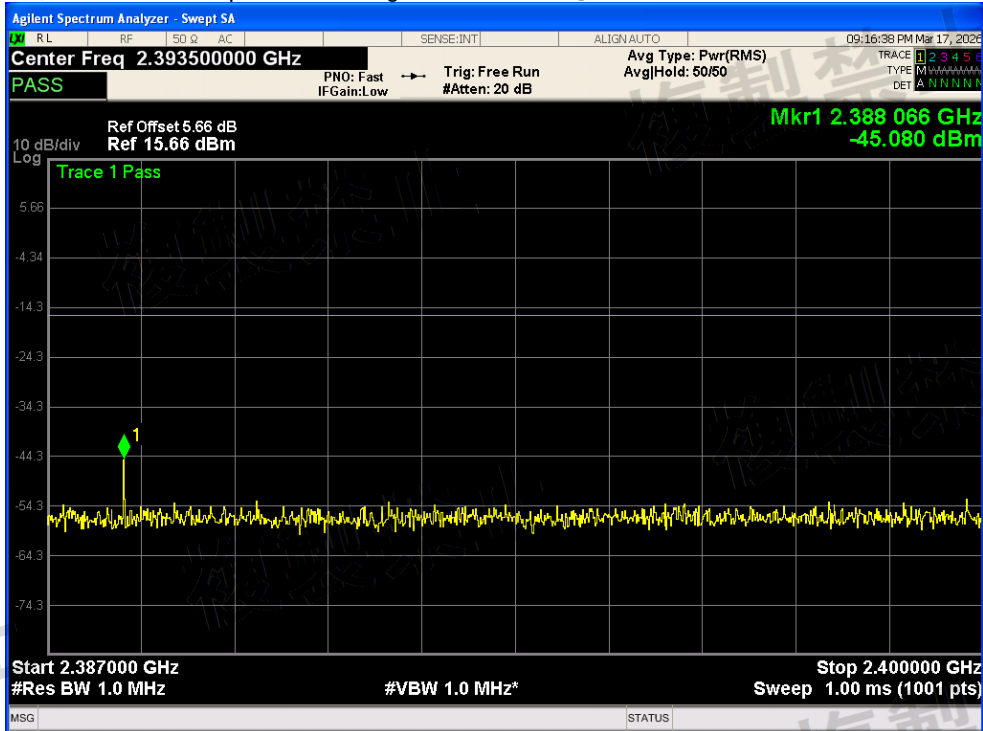
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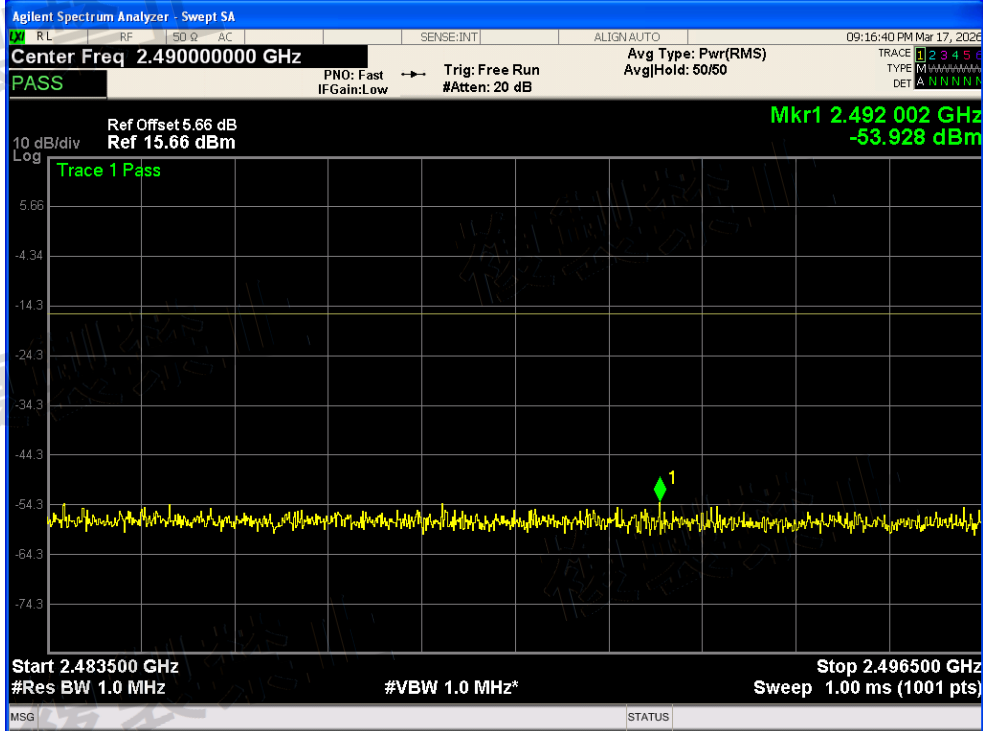
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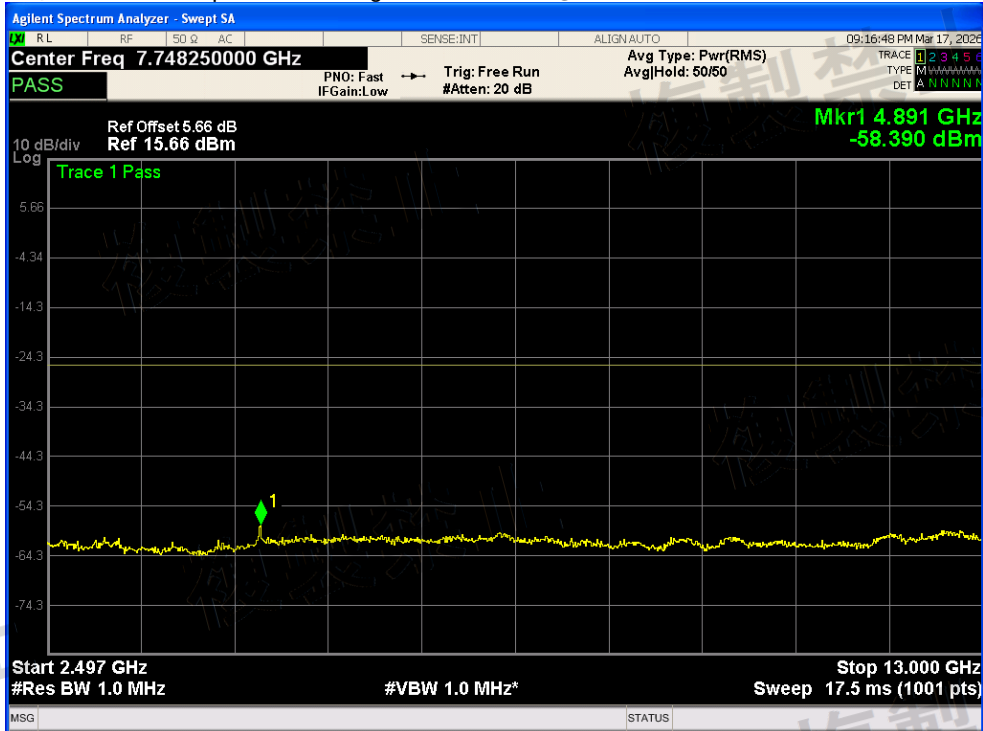
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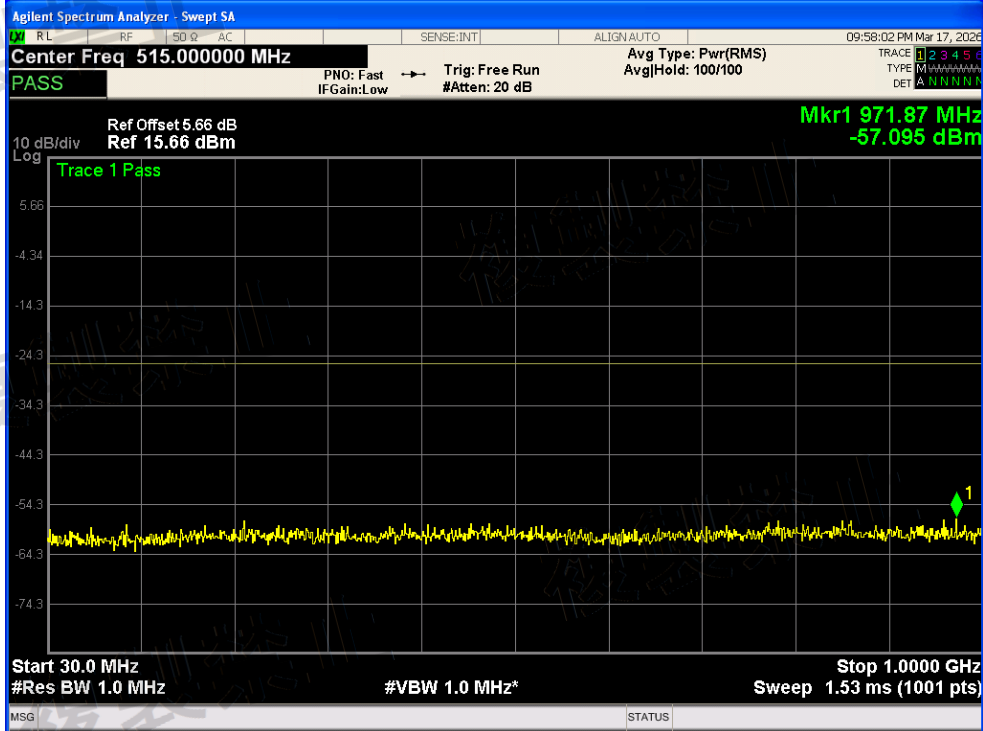
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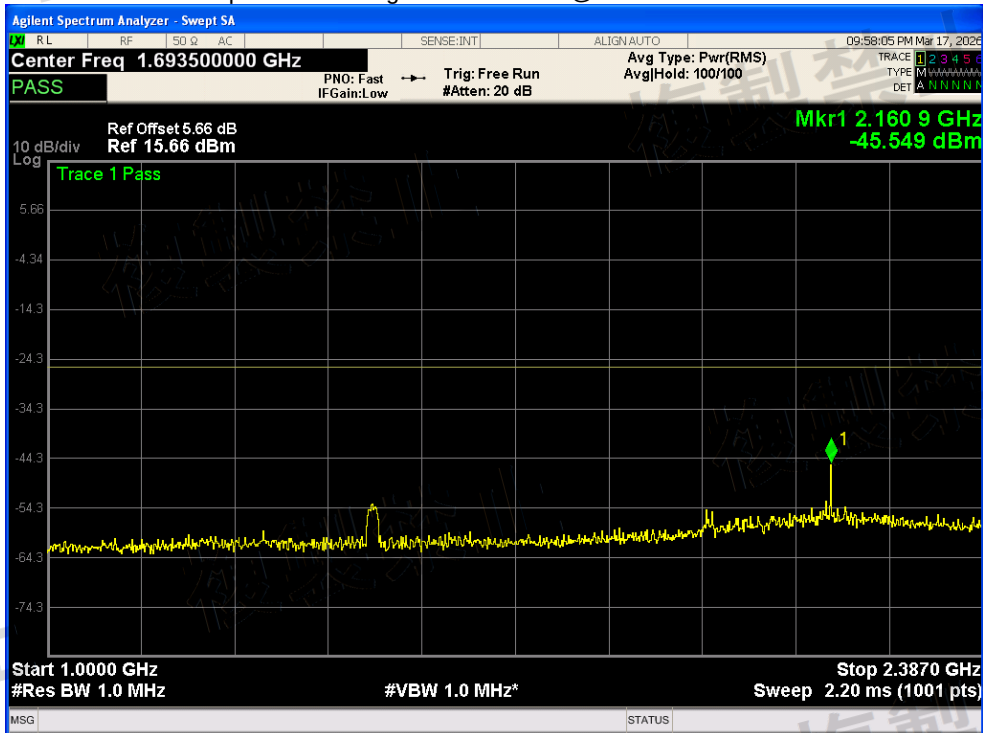
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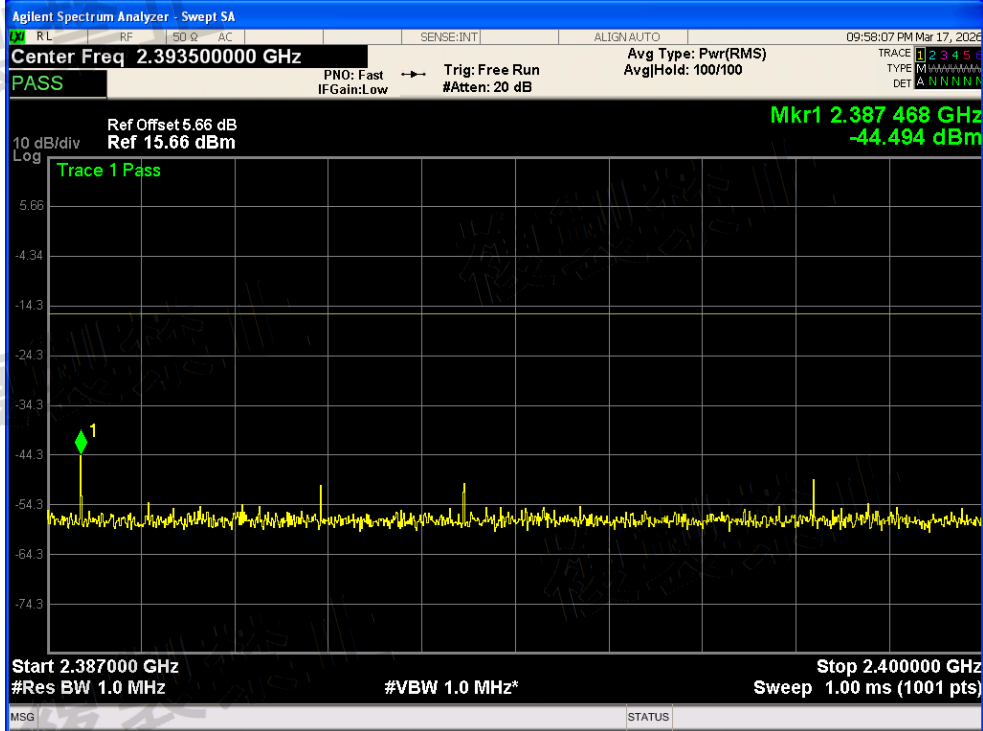
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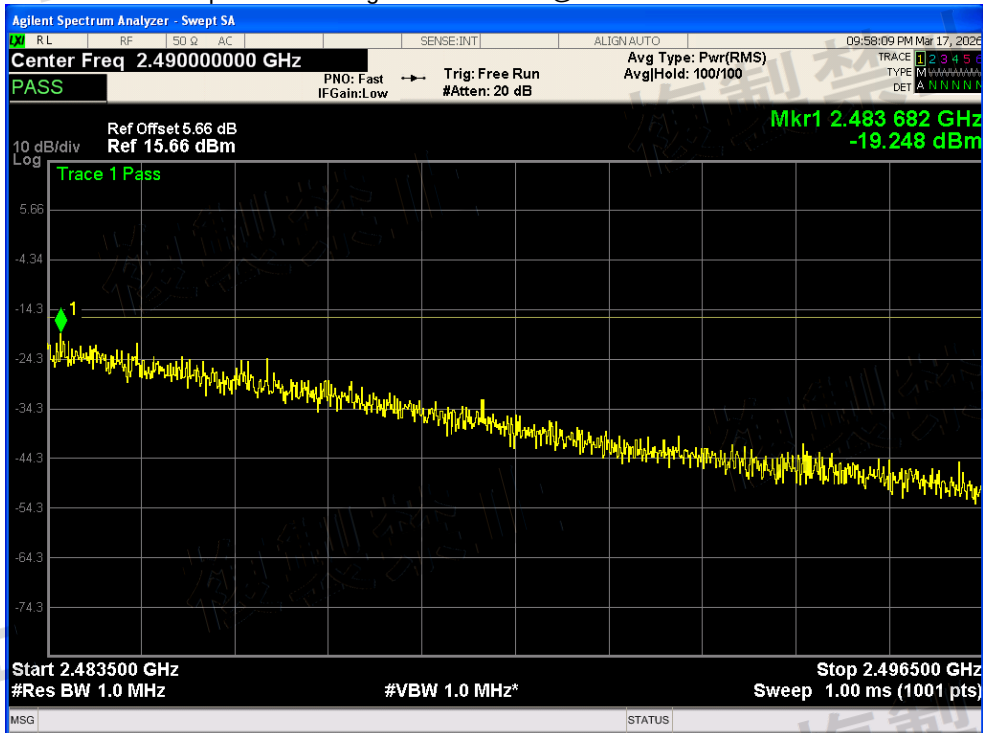
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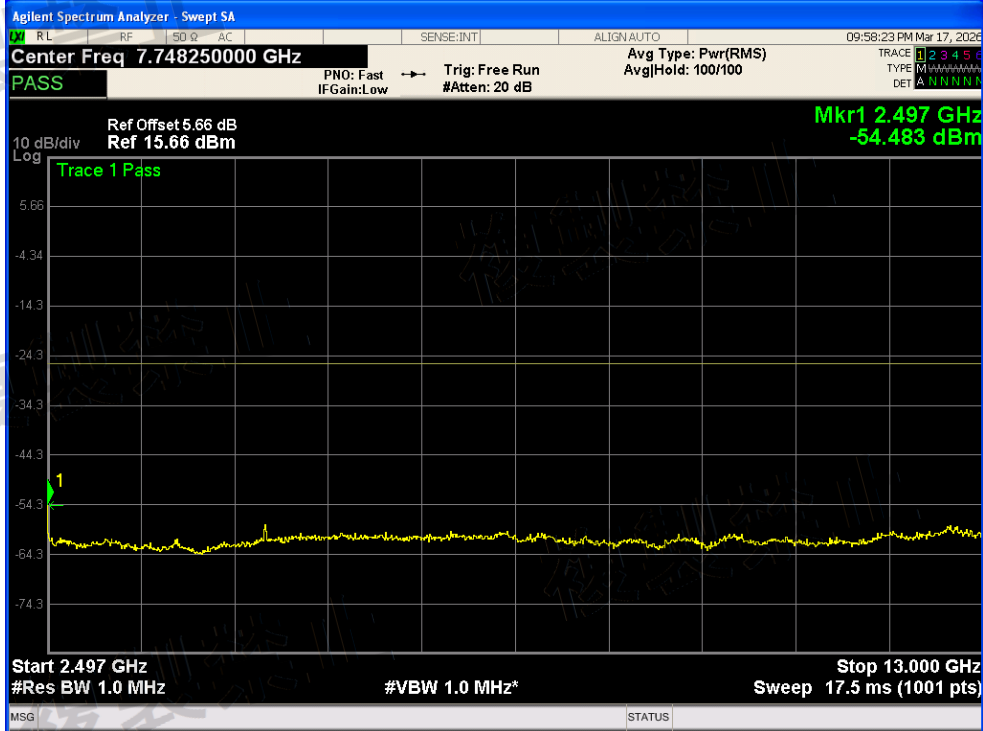
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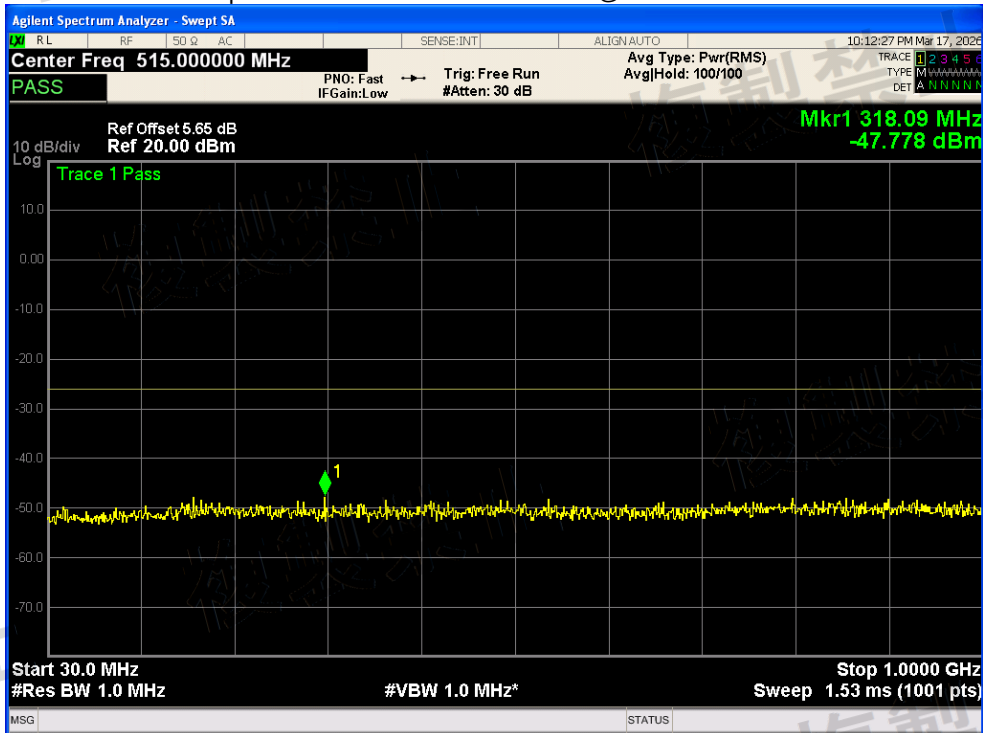
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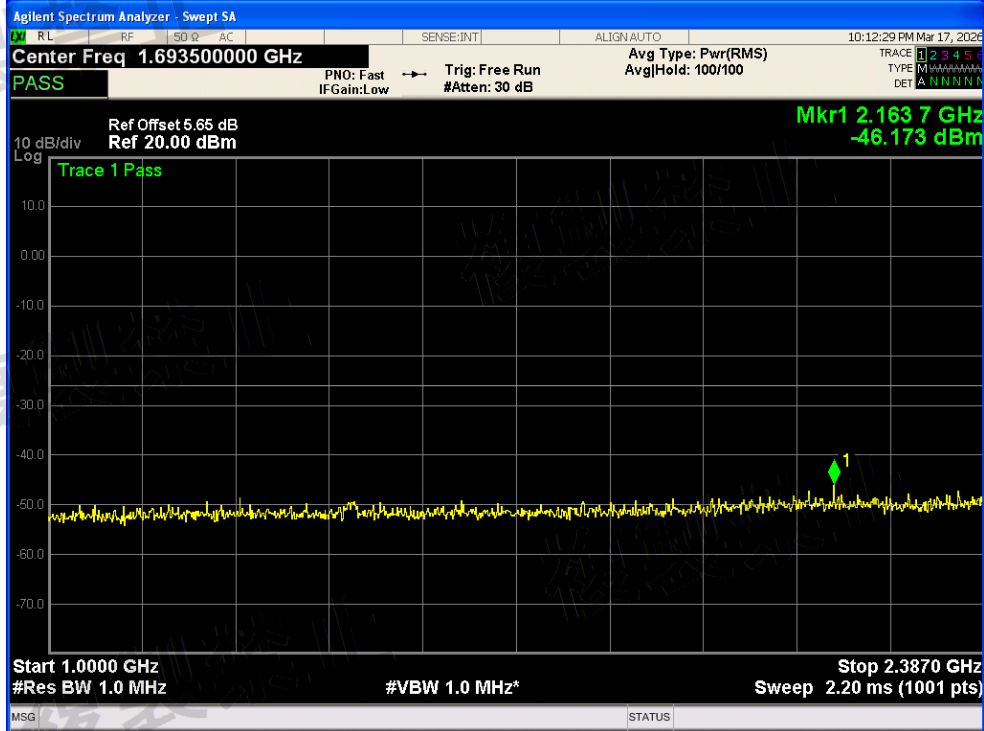
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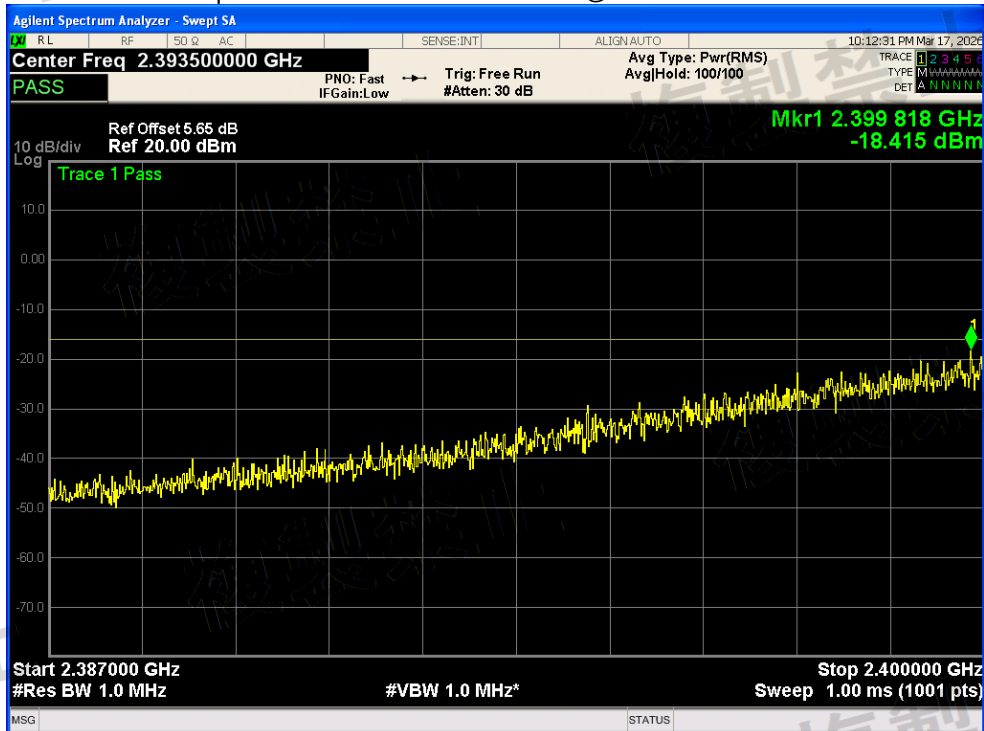
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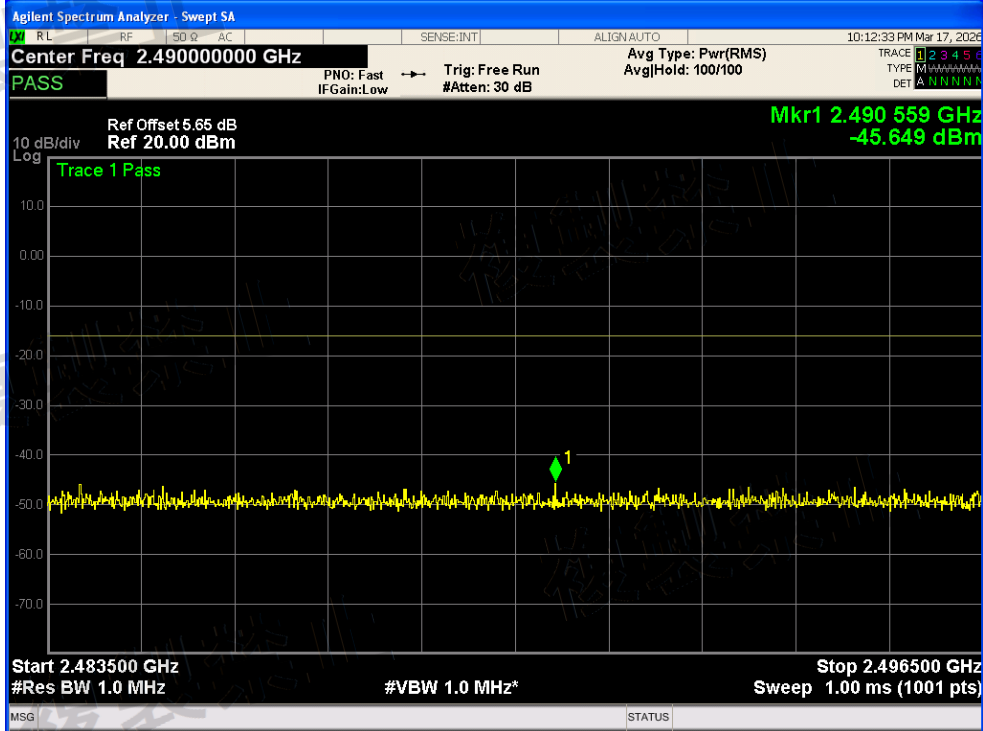
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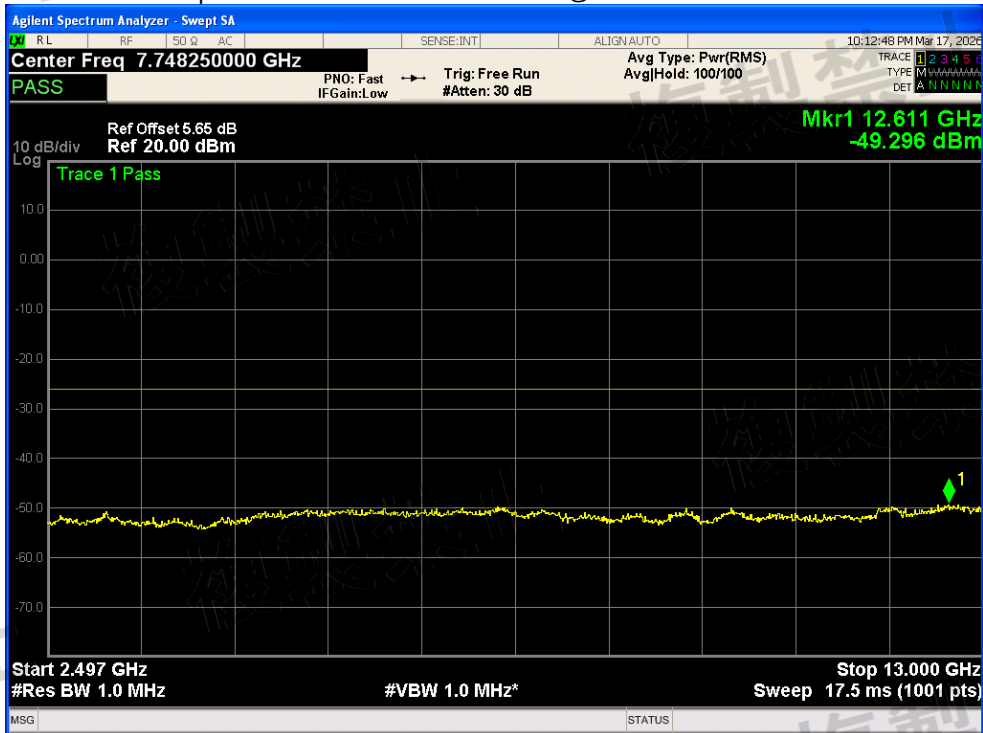
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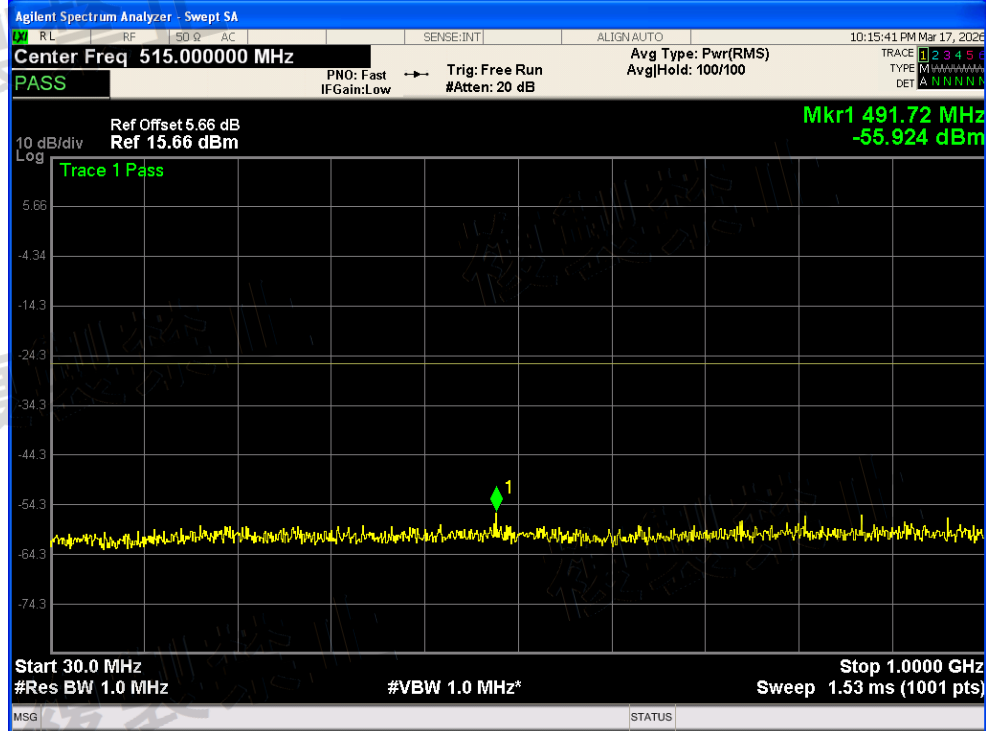
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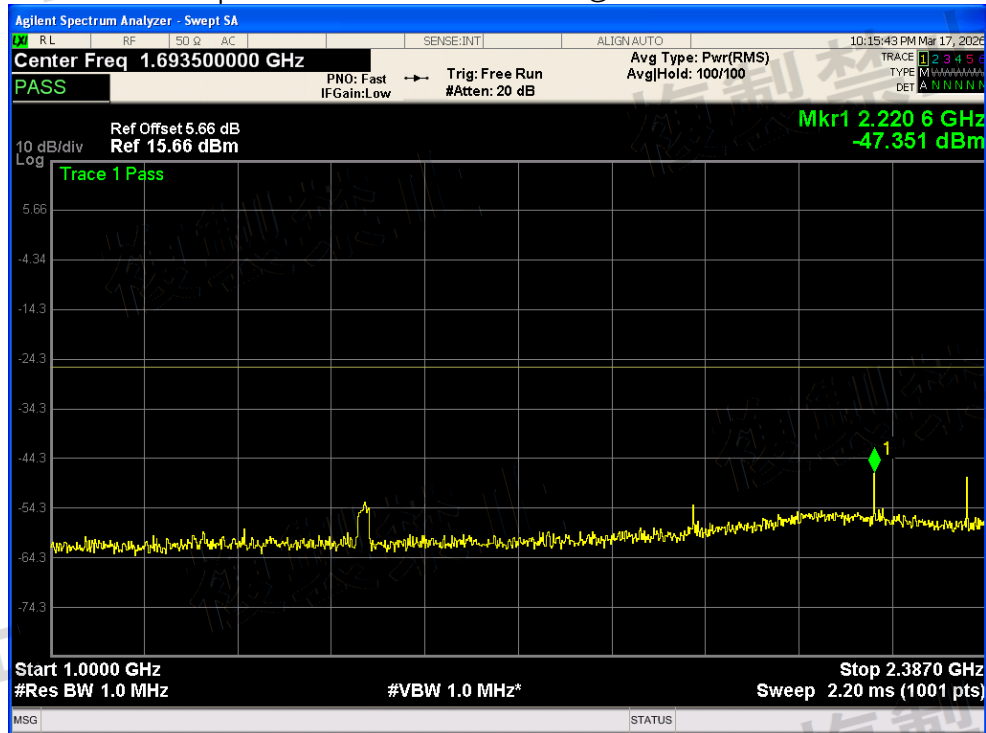
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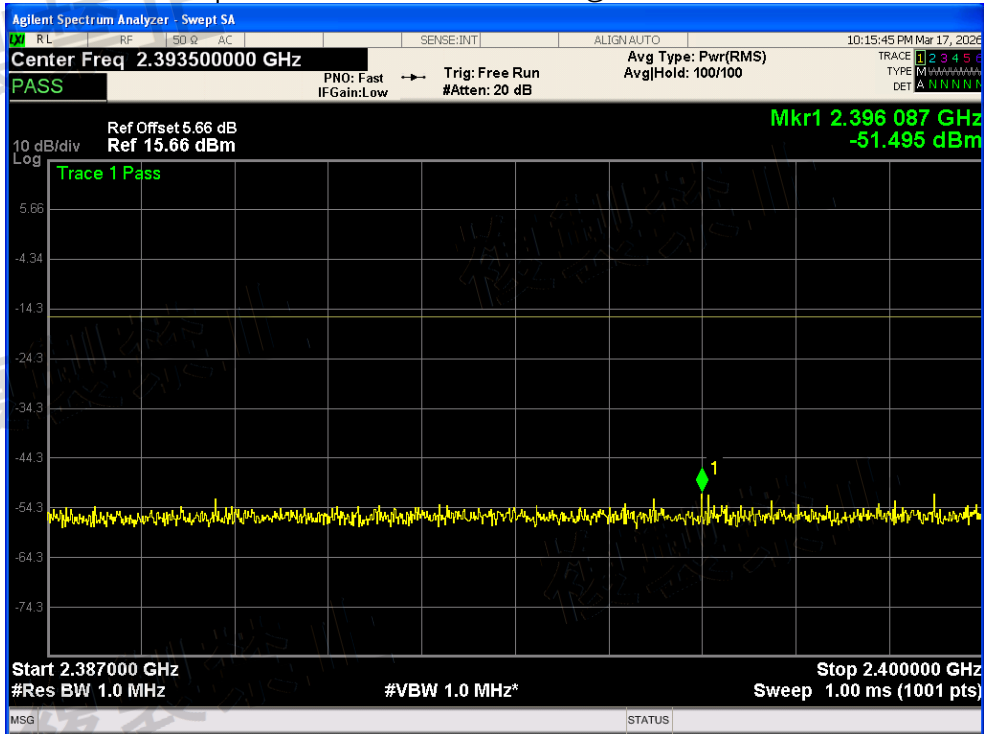
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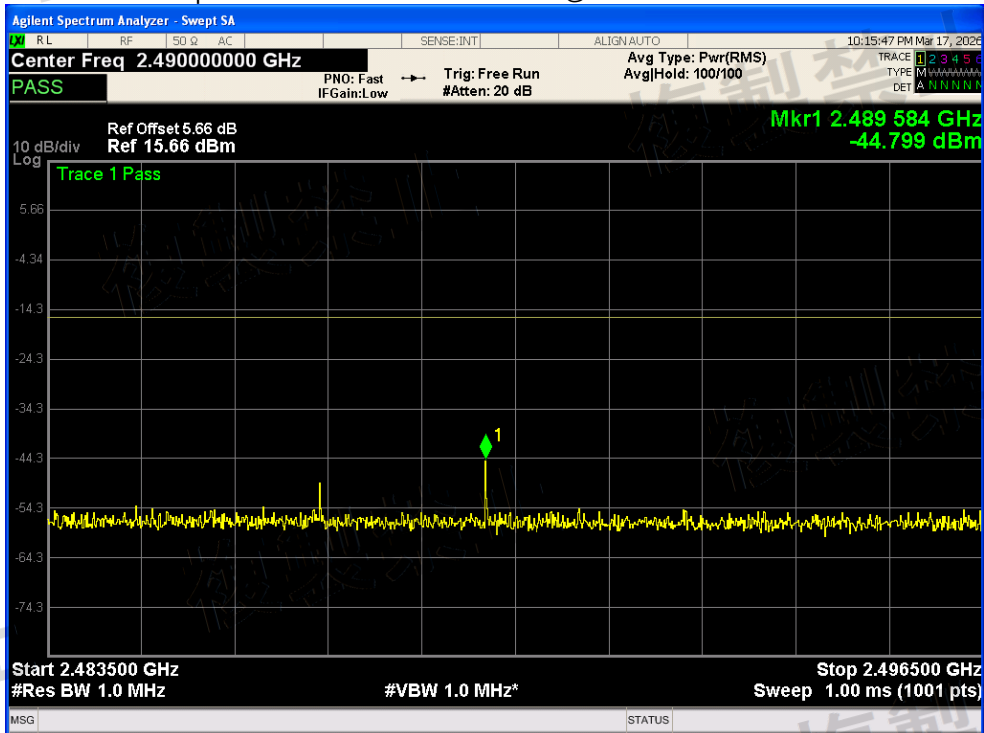
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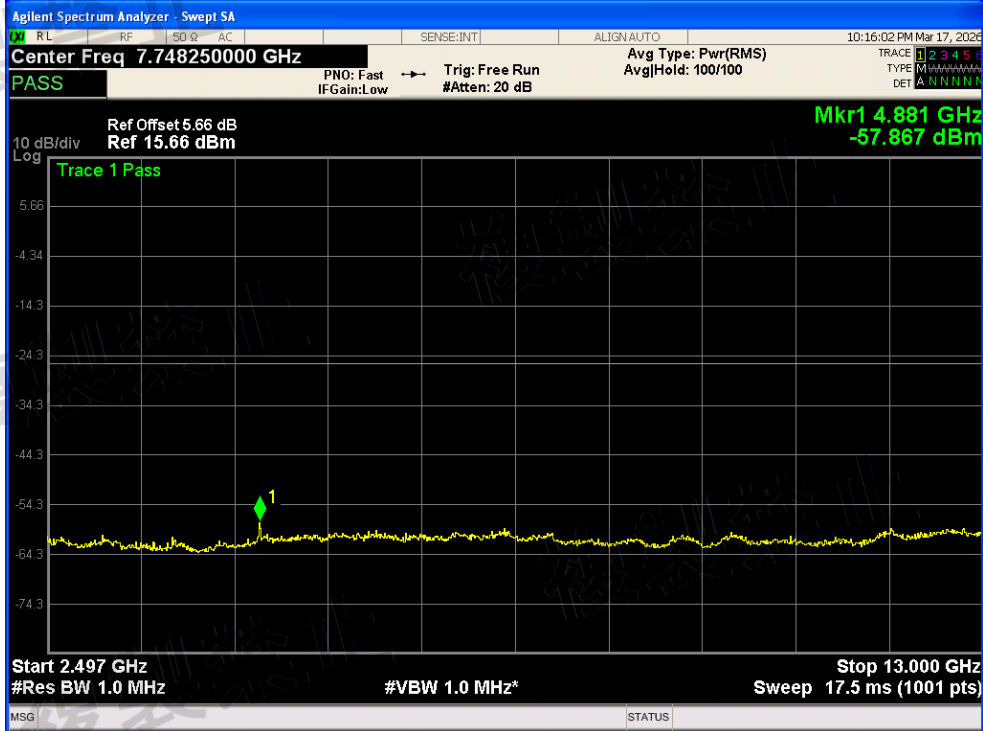
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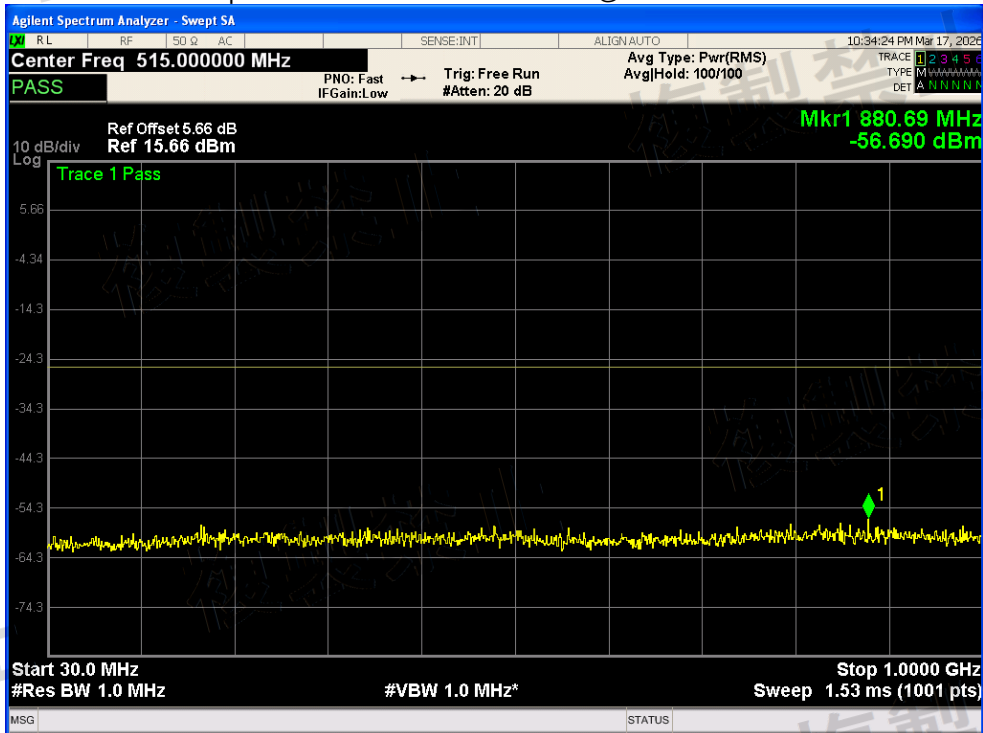
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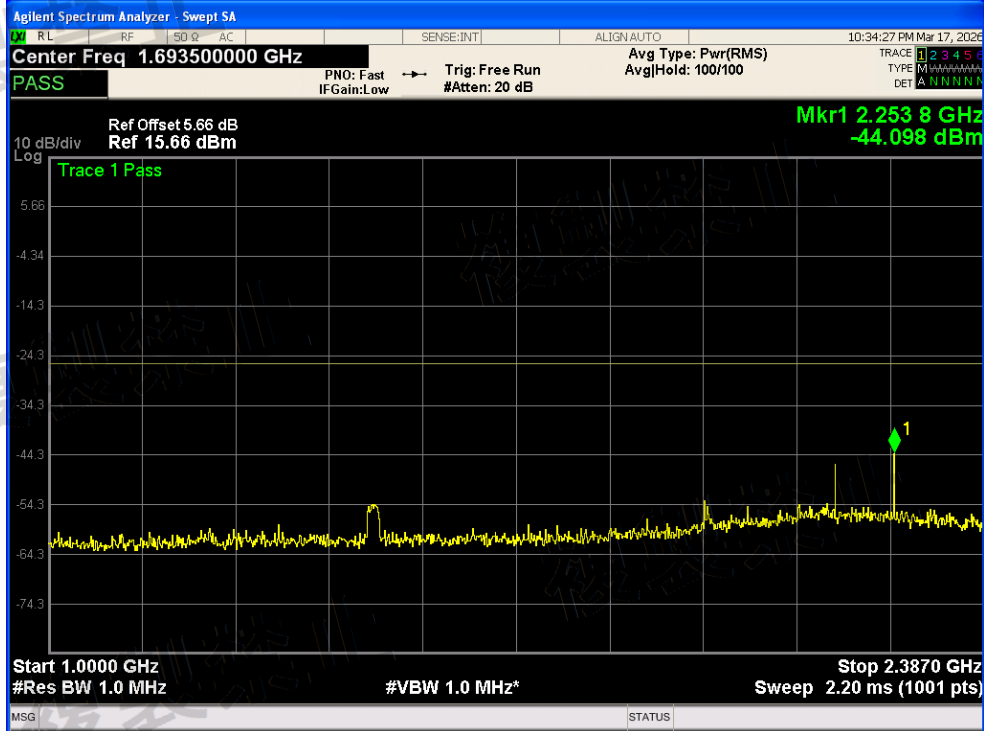
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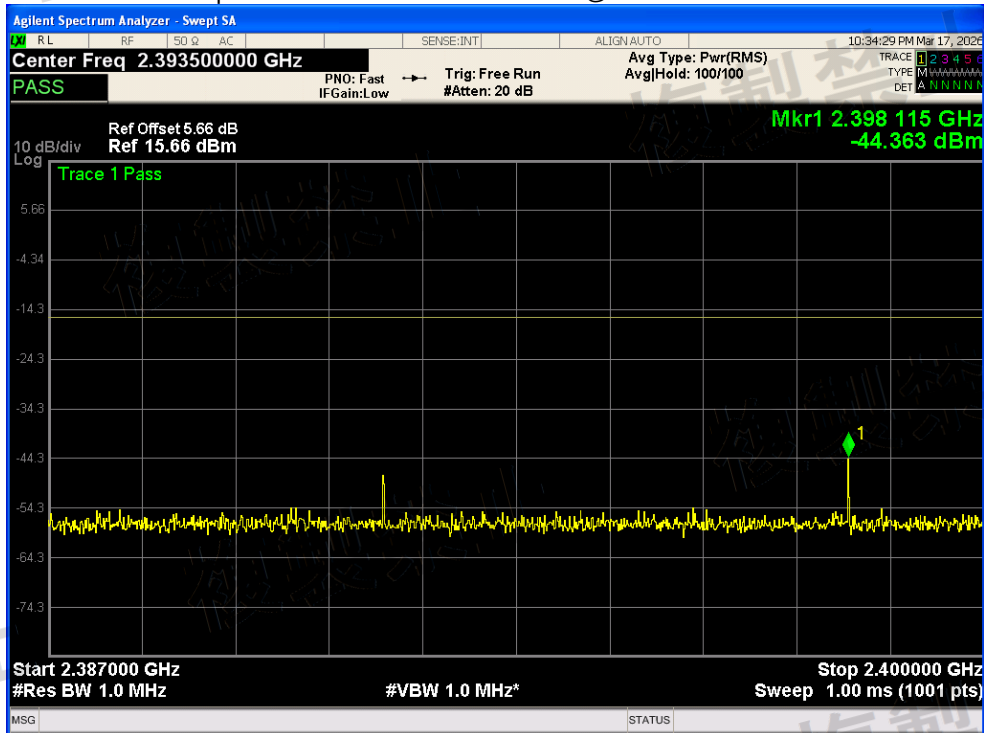
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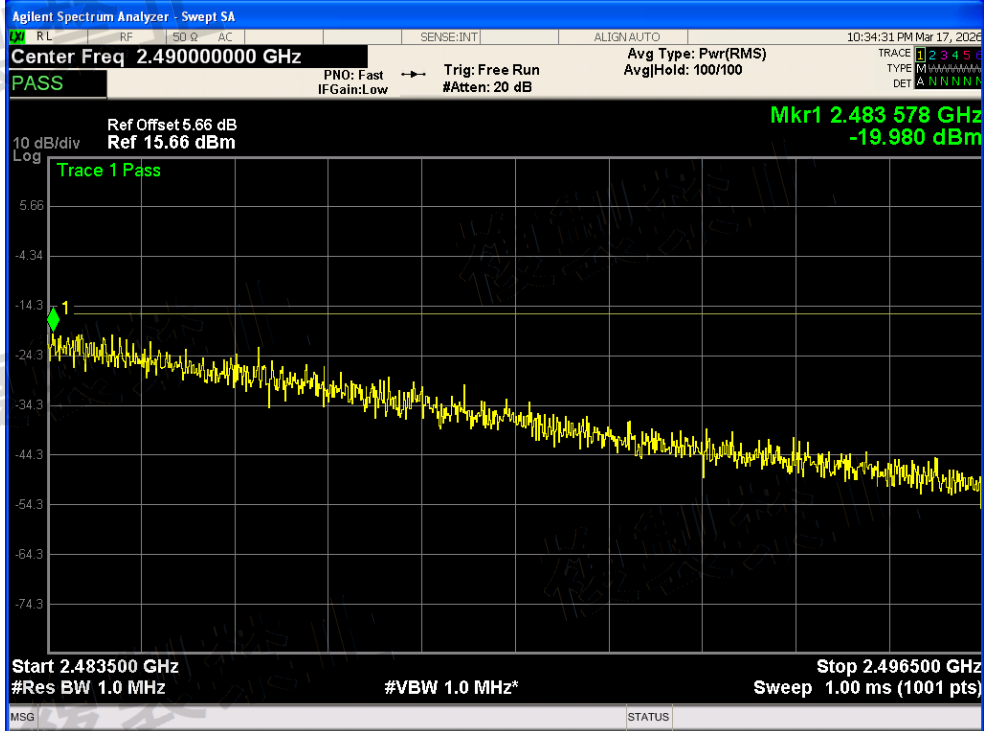
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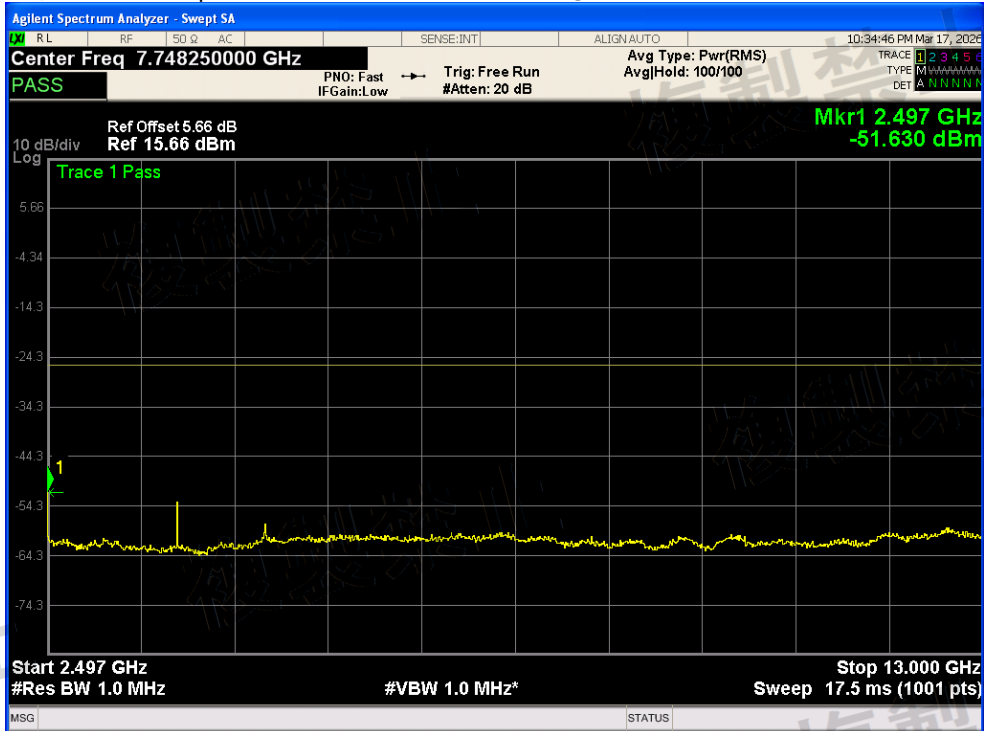
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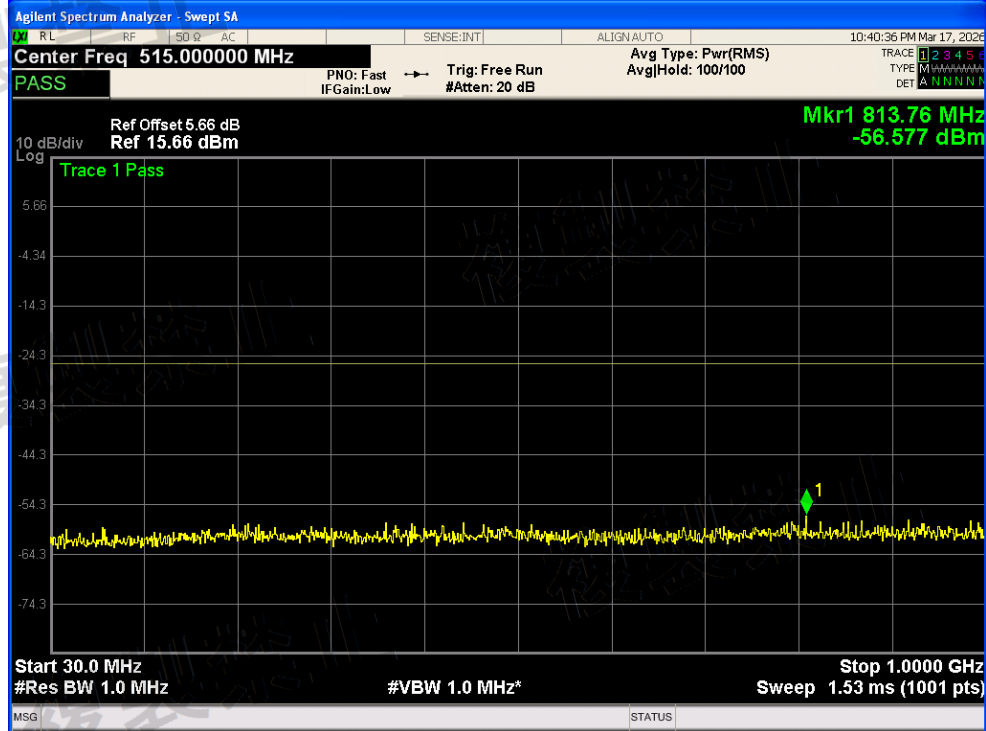
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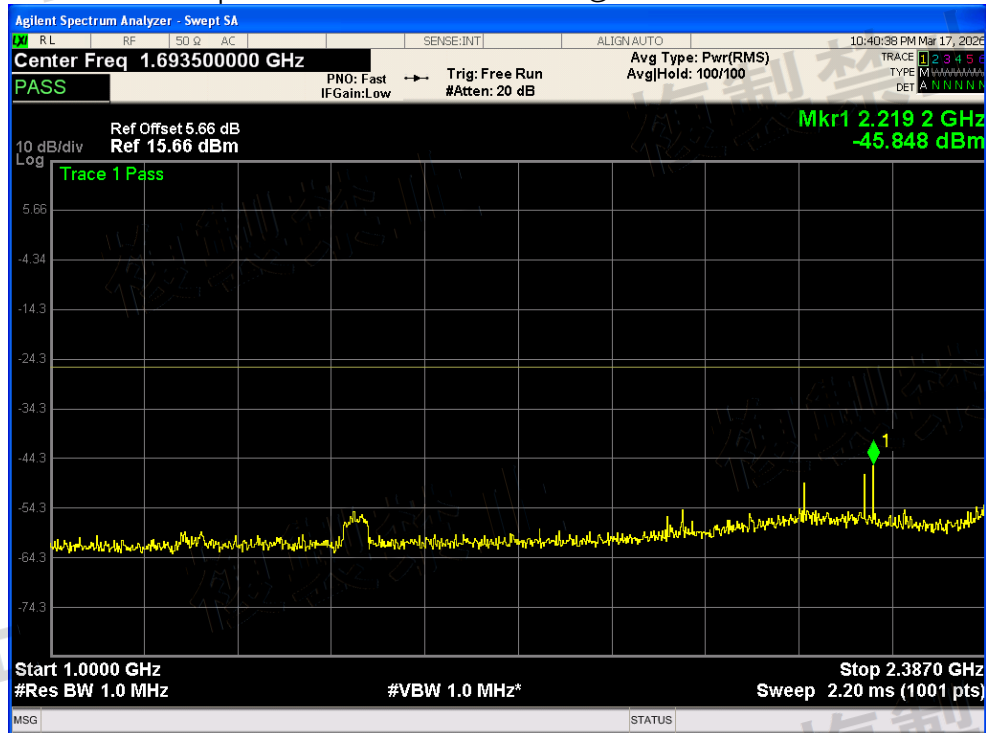
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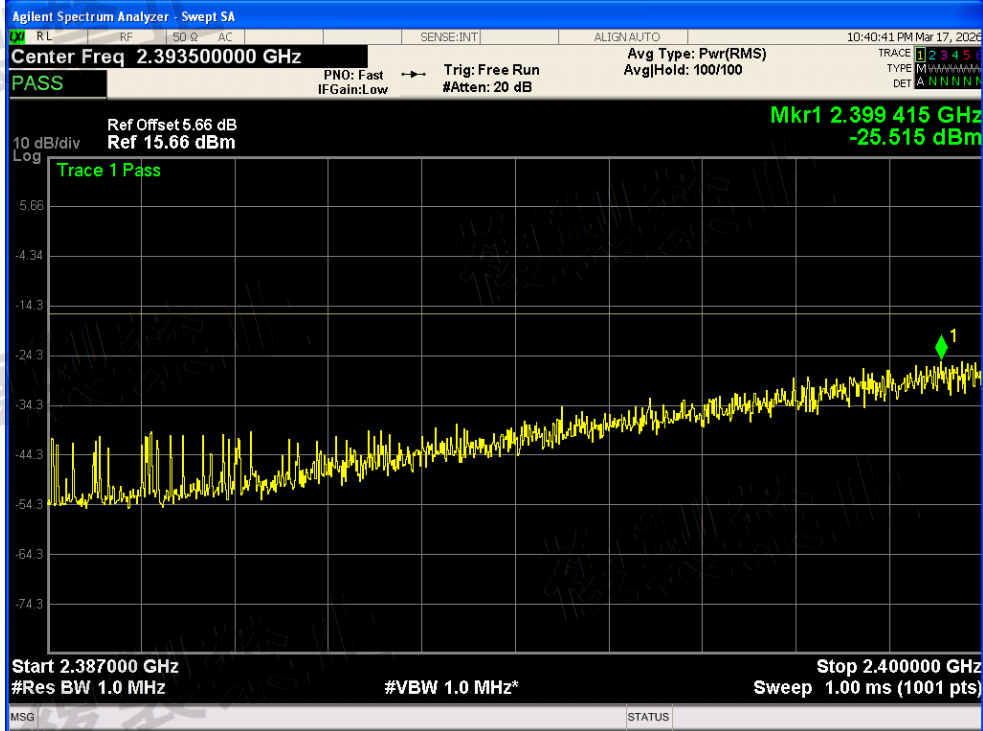
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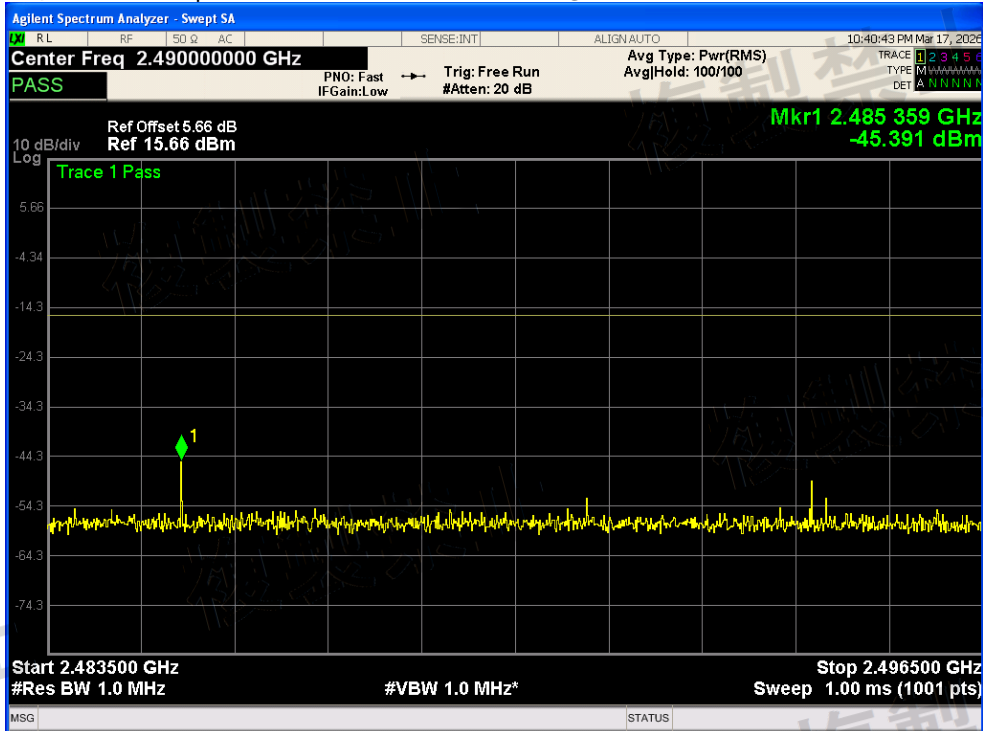
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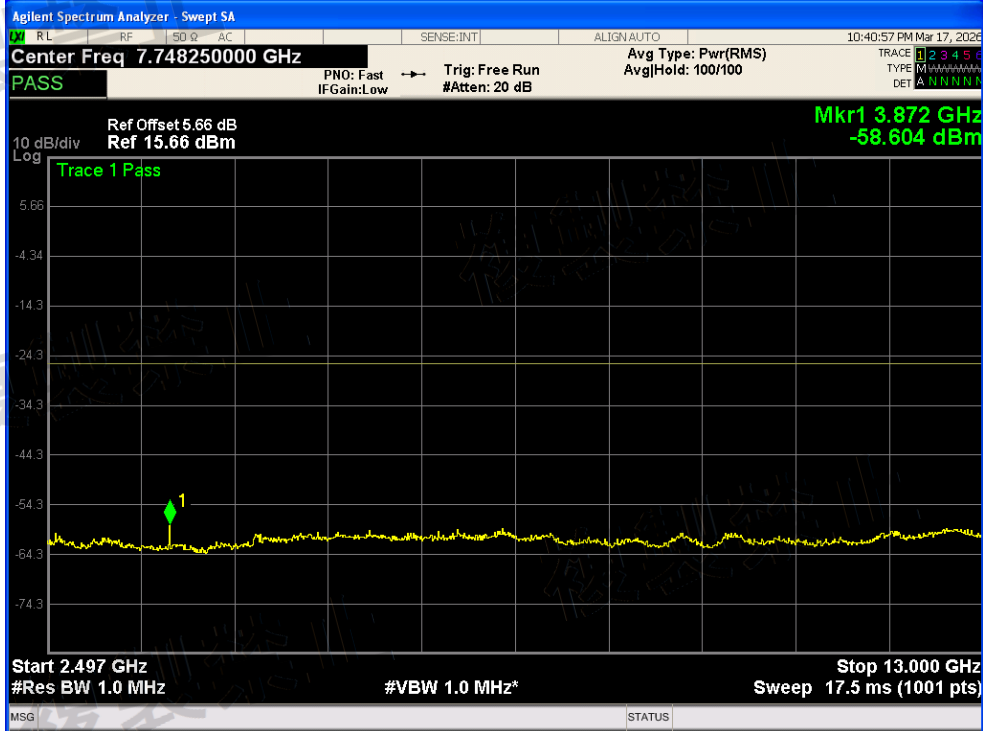
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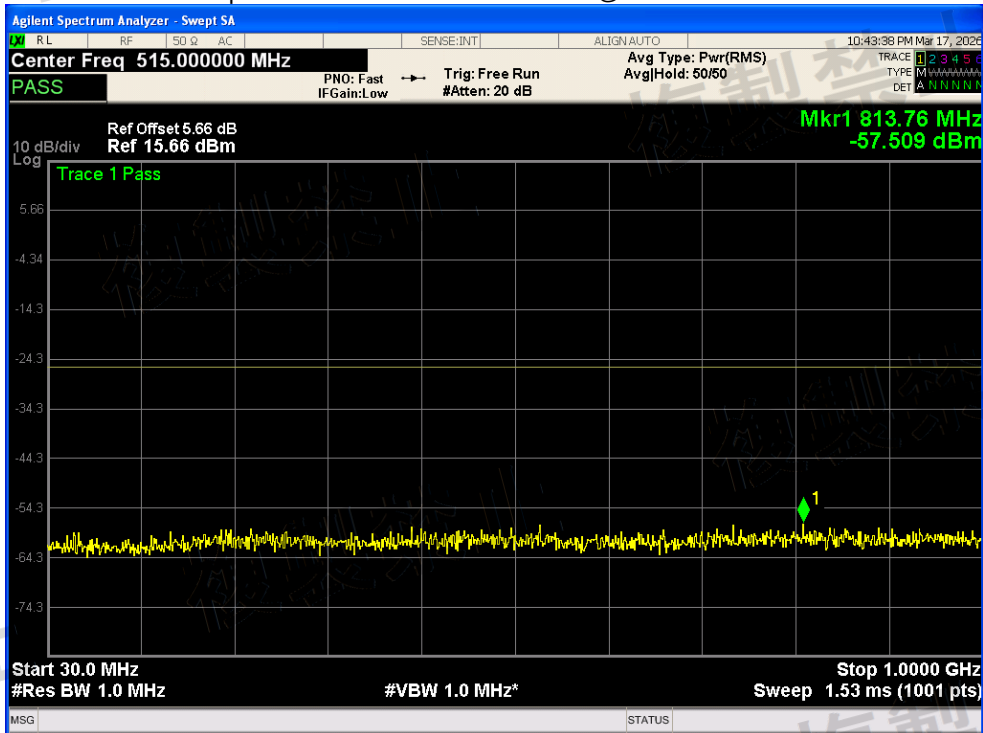
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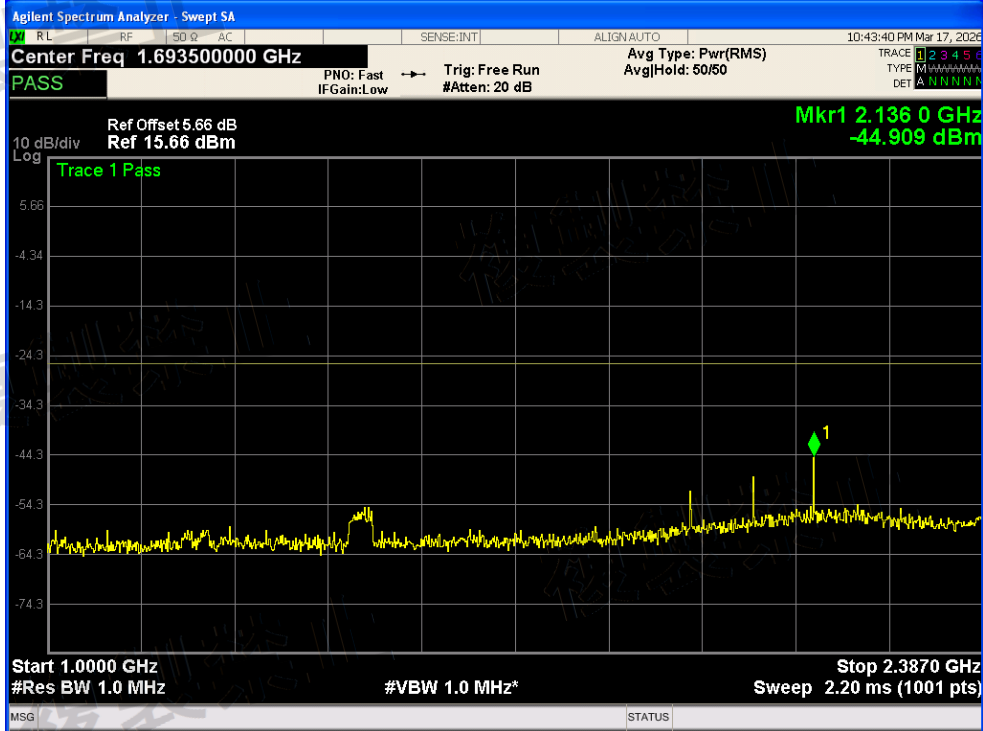
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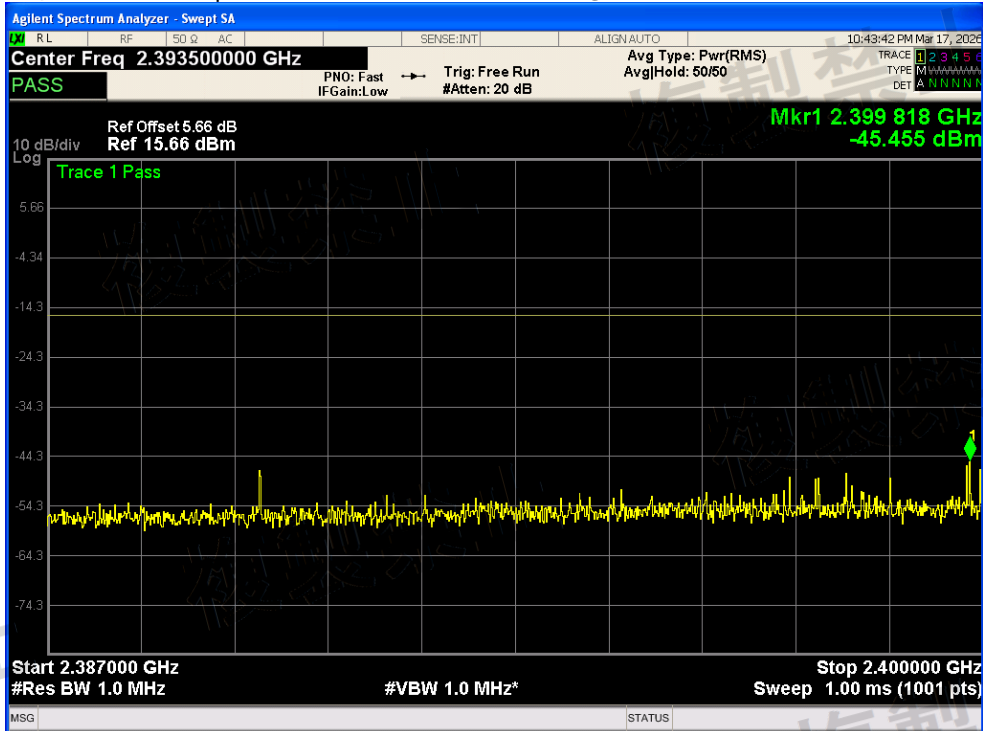
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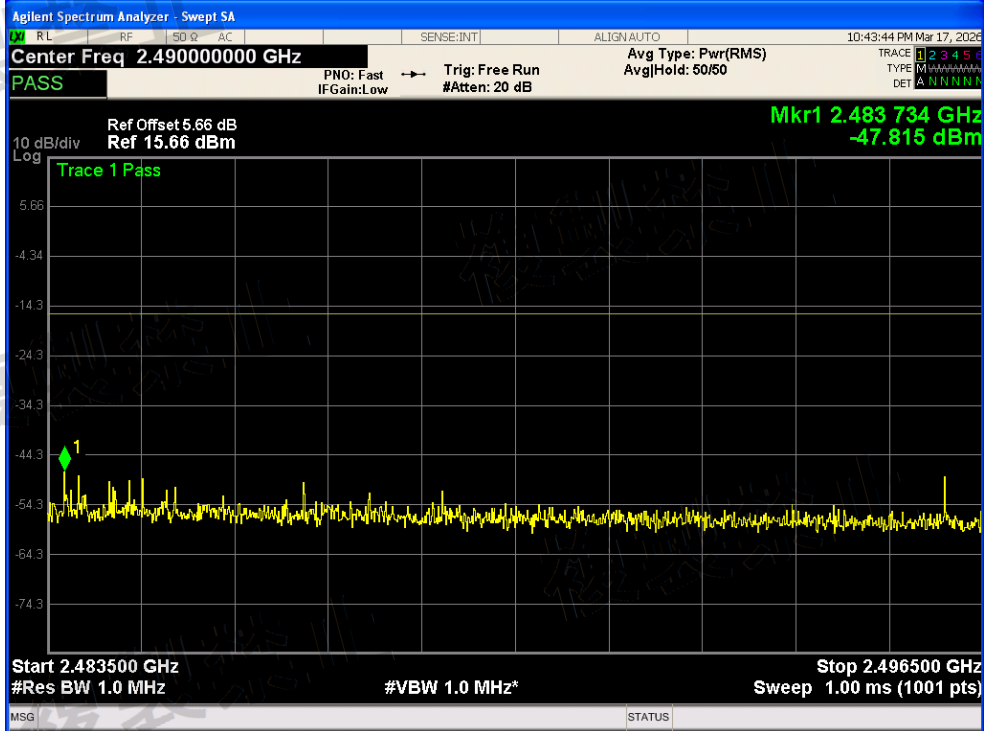
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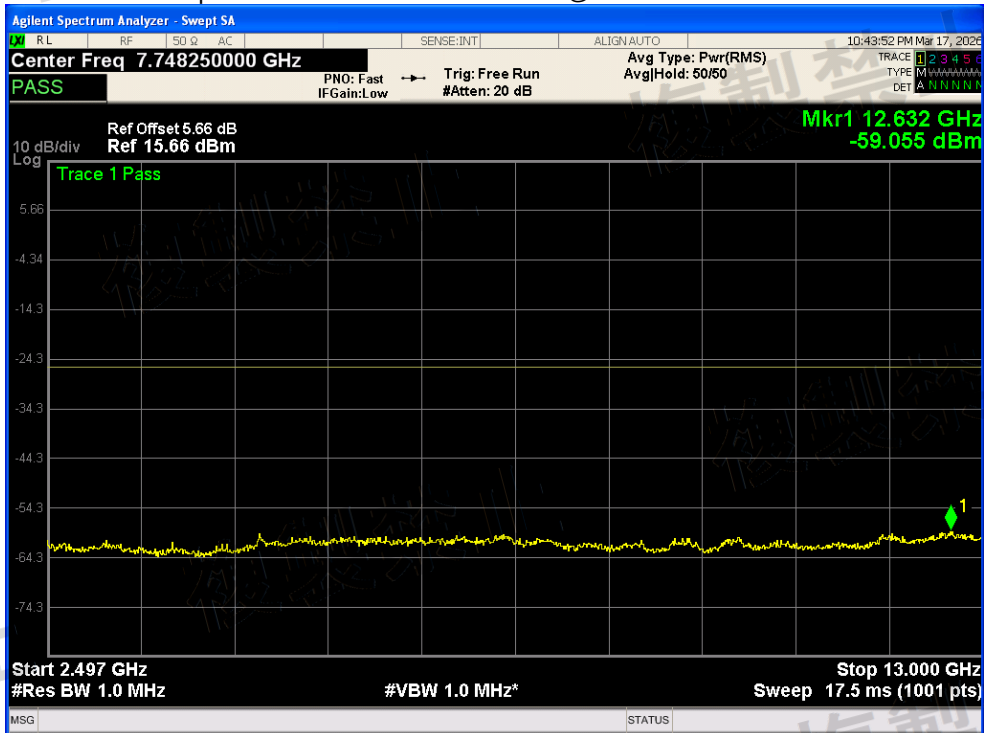
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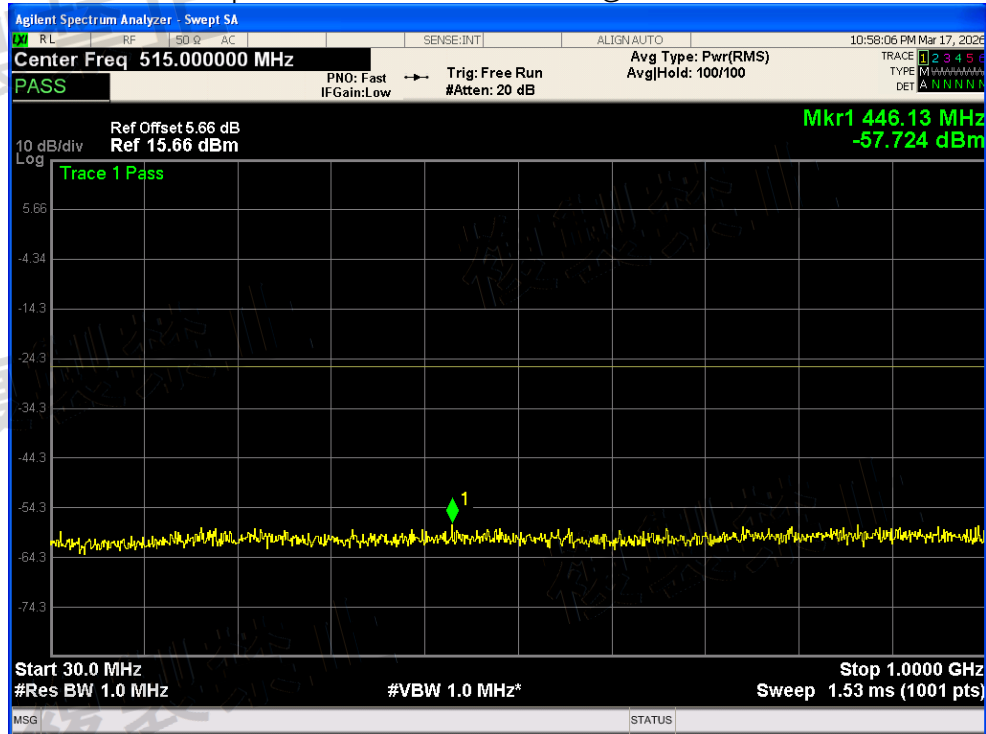
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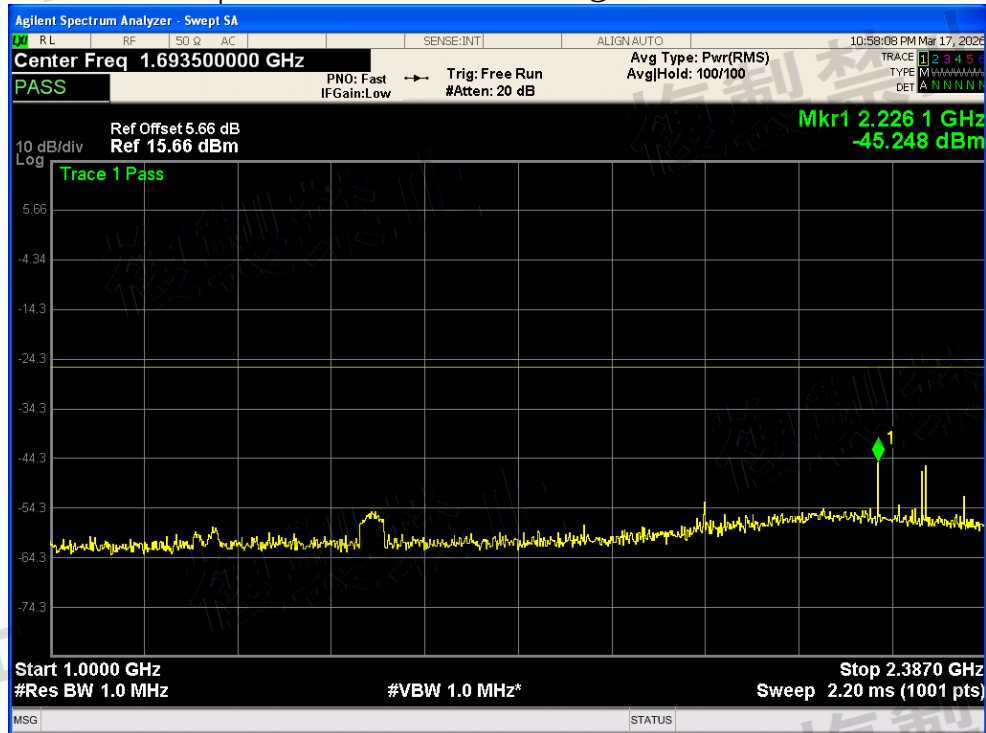
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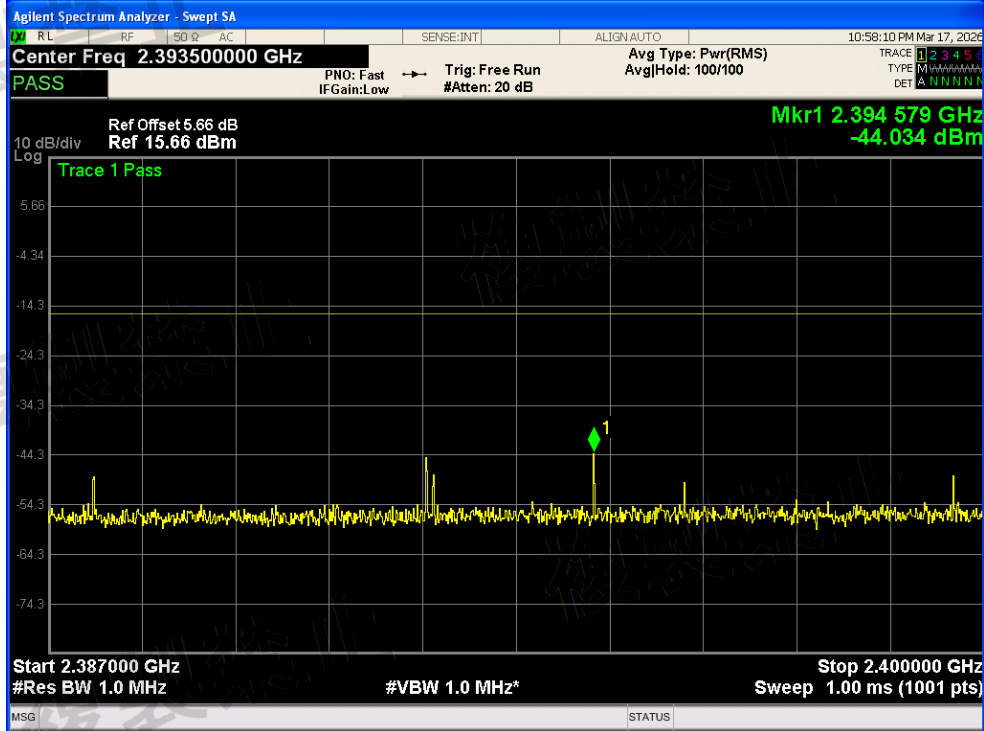
Tx. Spurious NVNT n40 2462MHz Ant1 @ 30MHz-1000MHz



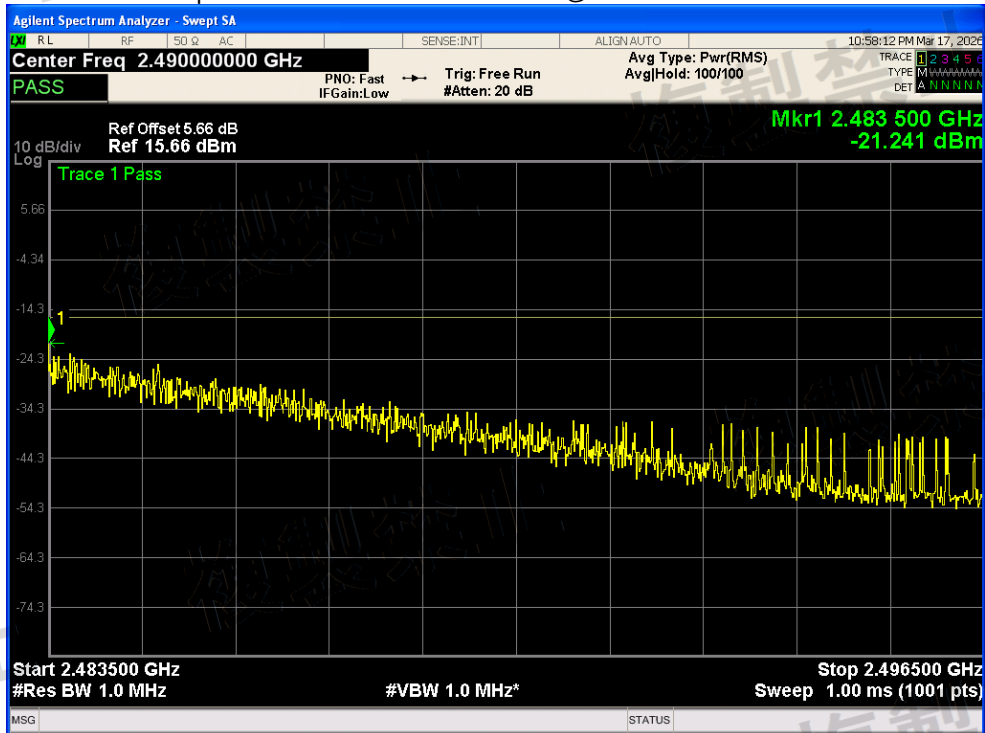
Tx. Spurious NVNT n40 2462MHz Ant1 @ 1000MHz-2387MHz



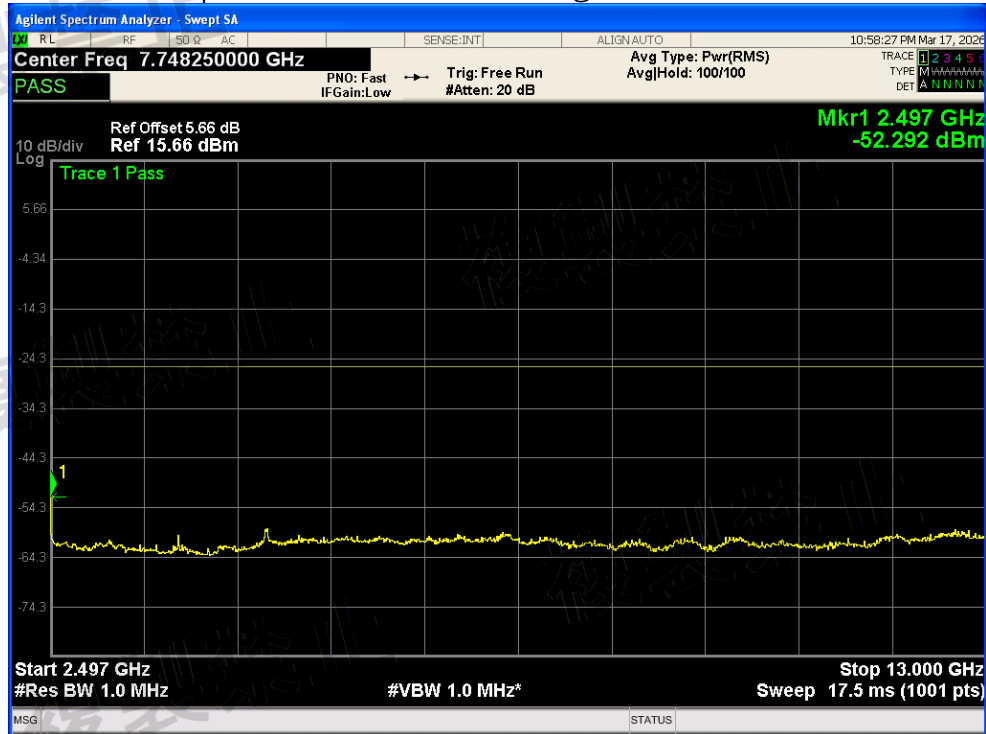
Tx. Spurious NVNT n40 2462MHz Ant1 @ 2387MHz-2400MHz



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



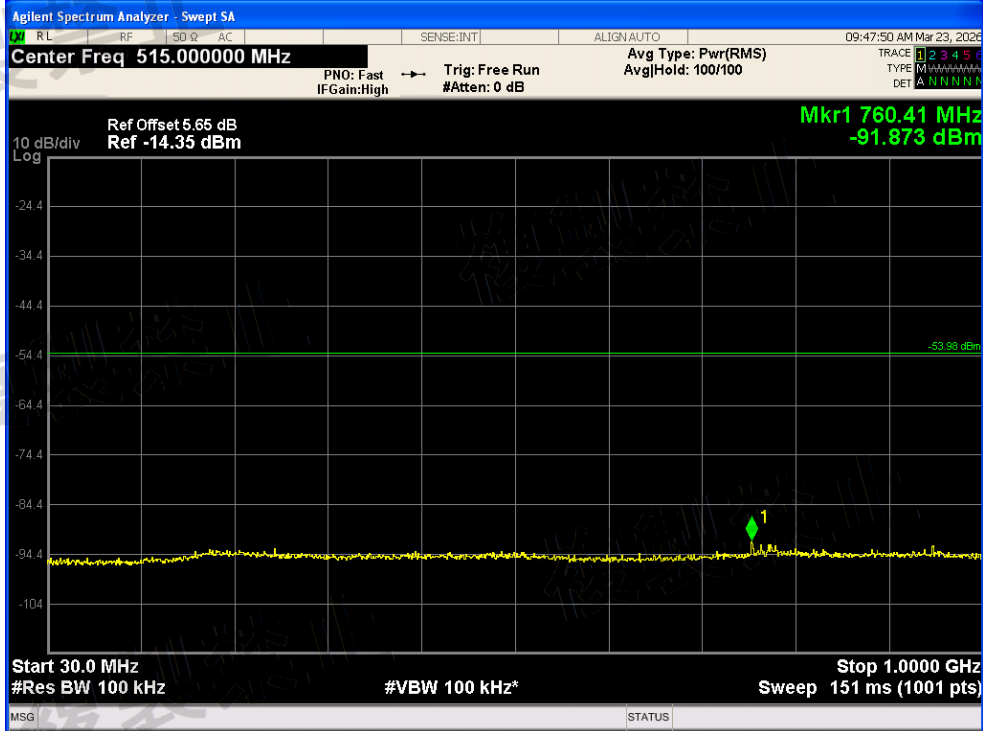
Tx. Spurious NVNT n40 2462MHz Ant1 @ 2496.5MHz-13000MHz



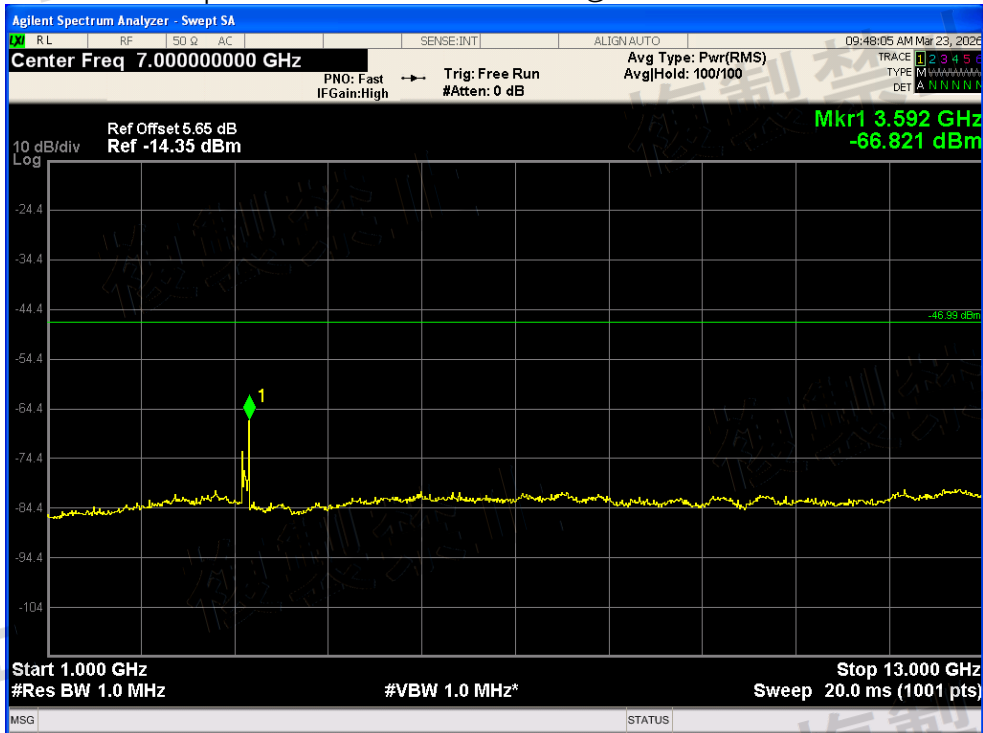
12.6 RX SPURIOUS EMISSION

Condition	Mode	Frequency (MHz)	Antenna	Range (MHz)	Emission Frequency (MHz)	Max Value (dBm)	Max Value (nW)	Limit (nW)	Verdict
NVNT	ax20	2412	Ant1	30-1000	760.41	-91.87	0.0007	4	Pass
NVNT	ax20	2412	Ant1	1000-13000	3592	-66.82	0.208	20	Pass
NVNT	ax20	2442	Ant1	30-1000	760.41	-91.04	0.0008	4	Pass
NVNT	ax20	2442	Ant1	1000-13000	12544	-80.59	0.0087	20	Pass
NVNT	ax20	2472	Ant1	30-1000	948.59	-91.27	0.0007	4	Pass
NVNT	ax20	2472	Ant1	1000-13000	3496	-73.51	0.0446	20	Pass
NVNT	ax40	2422	Ant1	30-1000	760.41	-89.16	0.0012	4	Pass
NVNT	ax40	2422	Ant1	1000-13000	12592	-80.23	0.0095	20	Pass
NVNT	ax40	2442	Ant1	30-1000	760.41	-90.86	0.0008	4	Pass
NVNT	ax40	2442	Ant1	1000-13000	3508	-76.53	0.0222	20	Pass
NVNT	ax40	2462	Ant1	30-1000	952.47	-97.43	0.0002	4	Pass
NVNT	ax40	2462	Ant1	1000-13000	12748	-84.31	0.0037	20	Pass
NVNT	b	2412	Ant1	30-1000	948.59	-87.26	0.0019	4	Pass
NVNT	b	2412	Ant1	1000-13000	3568	-78.46	0.0143	20	Pass
NVNT	b	2442	Ant1	30-1000	948.59	-87.22	0.0019	4	Pass
NVNT	b	2442	Ant1	1000-13000	3592	-77.1	0.0195	20	Pass
NVNT	b	2472	Ant1	30-1000	948.59	-87.29	0.0019	4	Pass
NVNT	b	2472	Ant1	1000-13000	3520	-73.74	0.0423	20	Pass
NVNT	g	2412	Ant1	30-1000	948.59	-86.47	0.0023	4	Pass
NVNT	g	2412	Ant1	1000-13000	12736	-80.31	0.0093	20	Pass
NVNT	g	2442	Ant1	30-1000	948.59	-86.17	0.0024	4	Pass
NVNT	g	2442	Ant1	1000-13000	3508	-71.72	0.0673	20	Pass
NVNT	g	2472	Ant1	30-1000	948.59	-86.88	0.0021	4	Pass
NVNT	g	2472	Ant1	1000-13000	3592	-71.81	0.0659	20	Pass
NVNT	n20	2412	Ant1	30-1000	948.59	-87.45	0.0018	4	Pass
NVNT	n20	2412	Ant1	1000-13000	3592	-71.33	0.0736	20	Pass
NVNT	n20	2442	Ant1	30-1000	948.59	-87.89	0.0016	4	Pass
NVNT	n20	2442	Ant1	1000-13000	3460	-79.78	0.0105	20	Pass
NVNT	n20	2472	Ant1	30-1000	759.44	-90.8	0.0008	4	Pass
NVNT	n20	2472	Ant1	1000-13000	12712	-80.79	0.0083	20	Pass
NVNT	n40	2422	Ant1	30-1000	948.59	-92.31	0.0006	4	Pass
NVNT	n40	2422	Ant1	1000-13000	12580	-80.67	0.0086	20	Pass
NVNT	n40	2442	Ant1	30-1000	948.59	-92.5	0.0006	4	Pass
NVNT	n40	2442	Ant1	1000-13000	3508	-70.45	0.0902	20	Pass
NVNT	n40	2462	Ant1	30-1000	948.59	-92.7	0.0005	4	Pass
NVNT	n40	2462	Ant1	1000-13000	3592	-72	0.0631	20	Pass

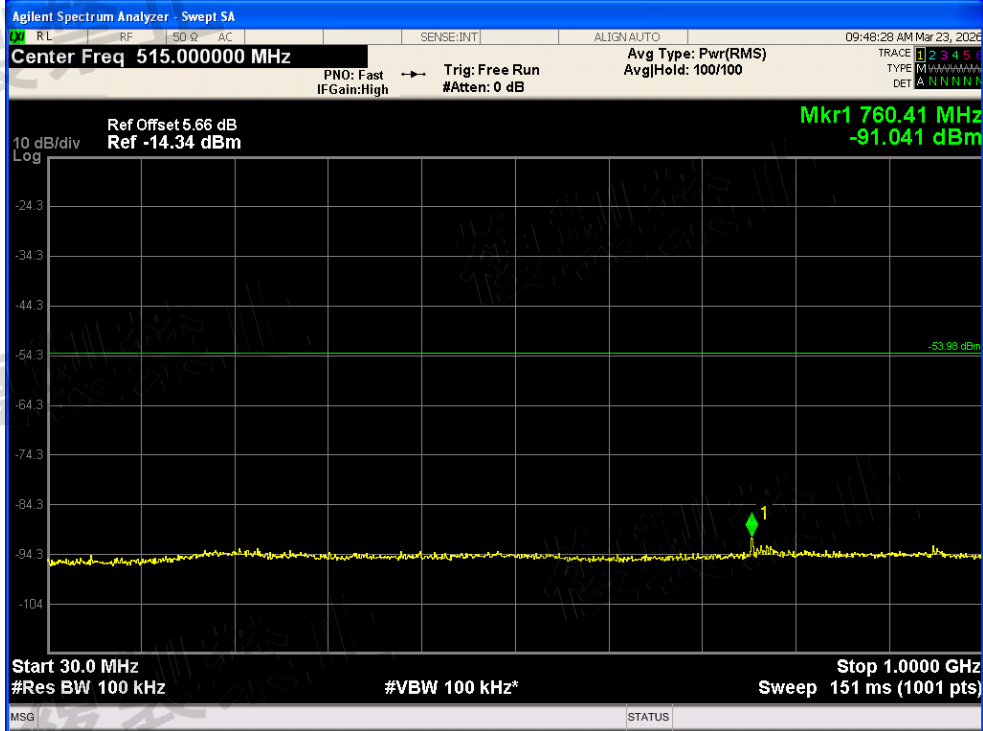
Rx. Spurious NVNT ax20 2412MHz Ant1 @ 30MHz-1000MHz



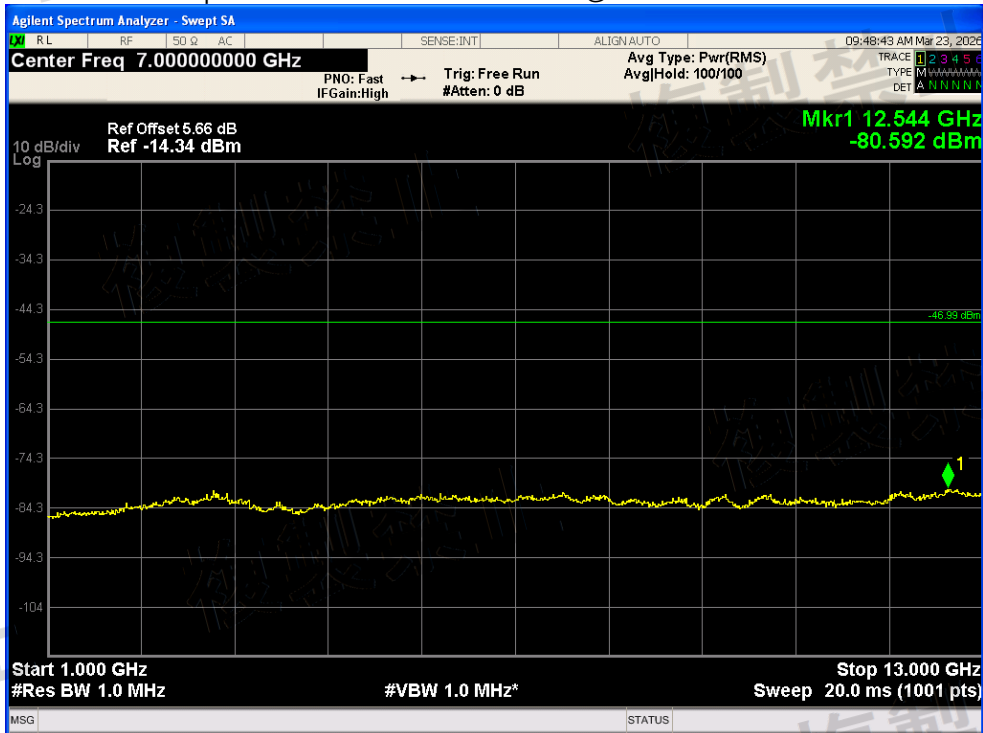
Rx. Spurious NVNT ax20 2412MHz Ant1 @ 1000MHz-13000MHz



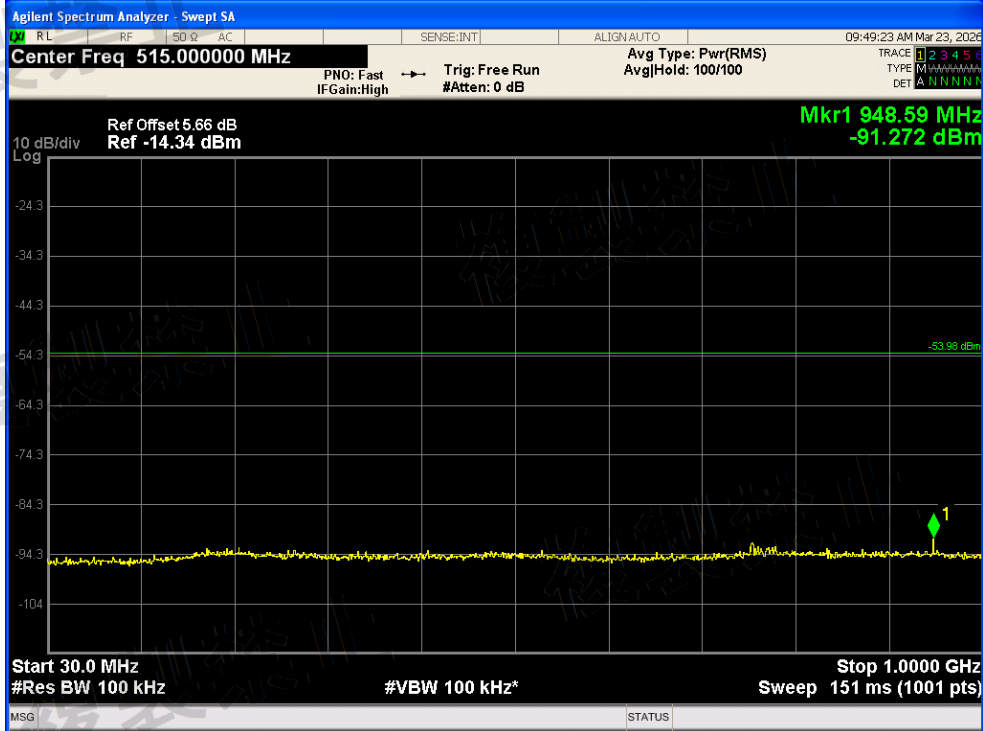
Rx. Spurious NVNT ax20 2442MHz Ant1 @ 30MHz-1000MHz



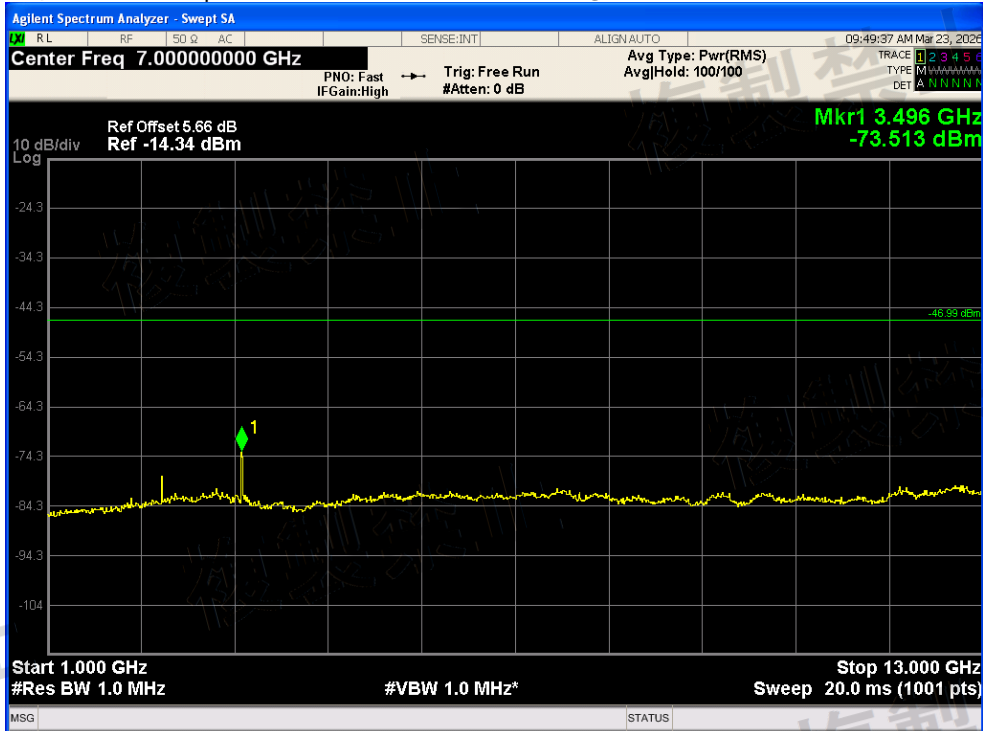
Rx. Spurious NVNT ax20 2442MHz Ant1 @ 1000MHz-13000MHz



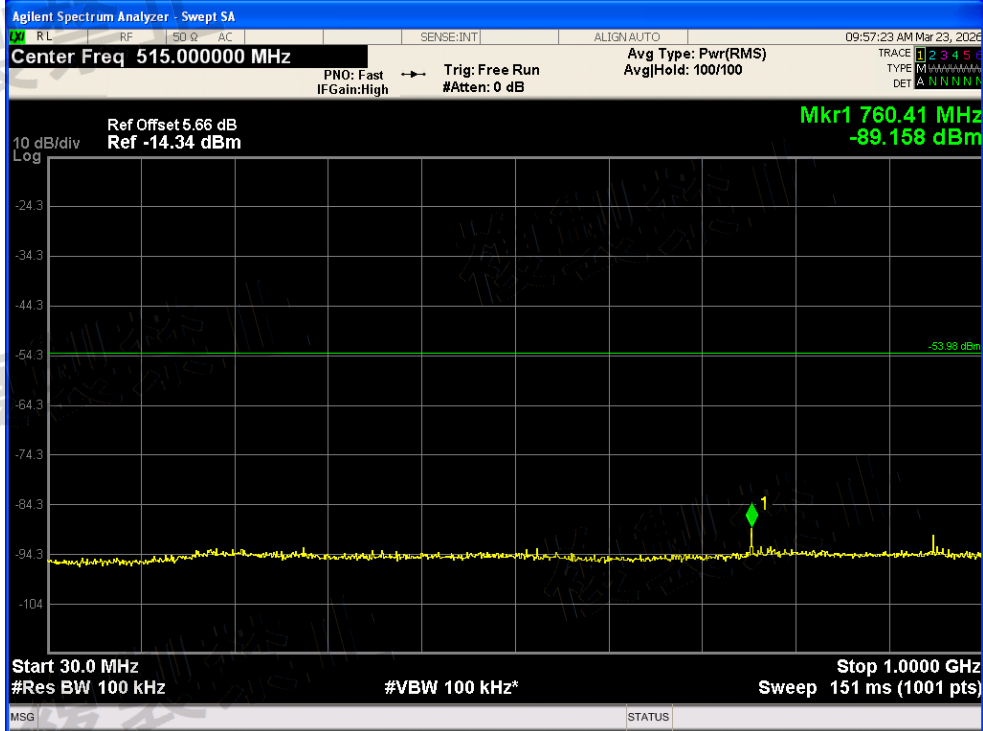
Rx. Spurious NVNT ax20 2472MHz Ant1 @ 30MHz-1000MHz



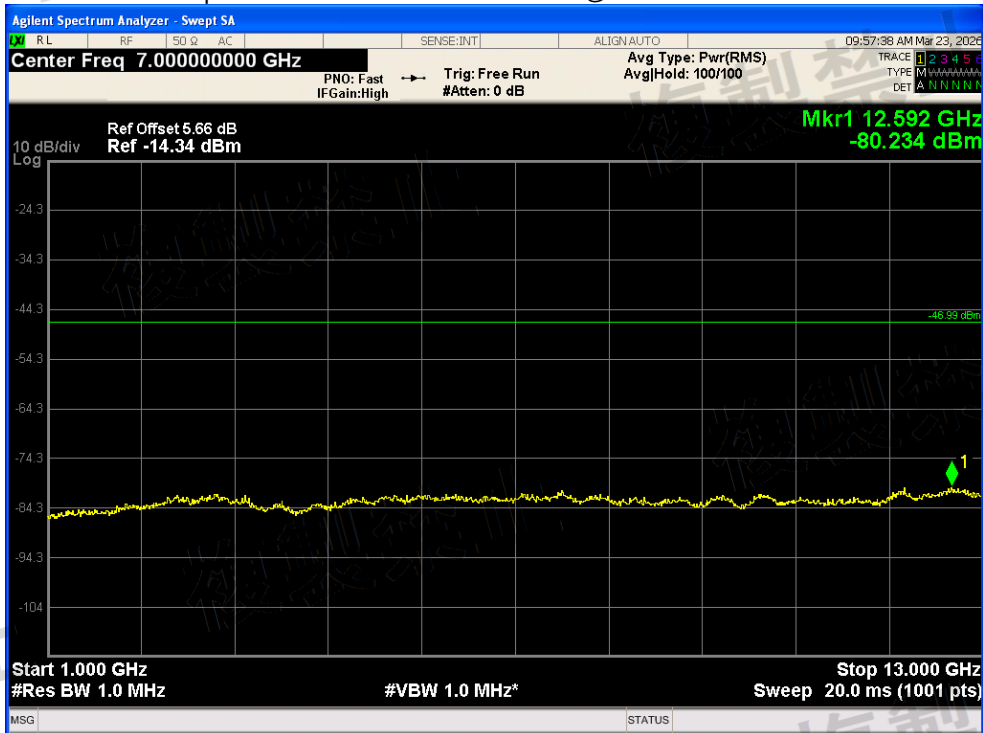
Rx. Spurious NVNT ax20 2472MHz Ant1 @ 1000MHz-13000MHz



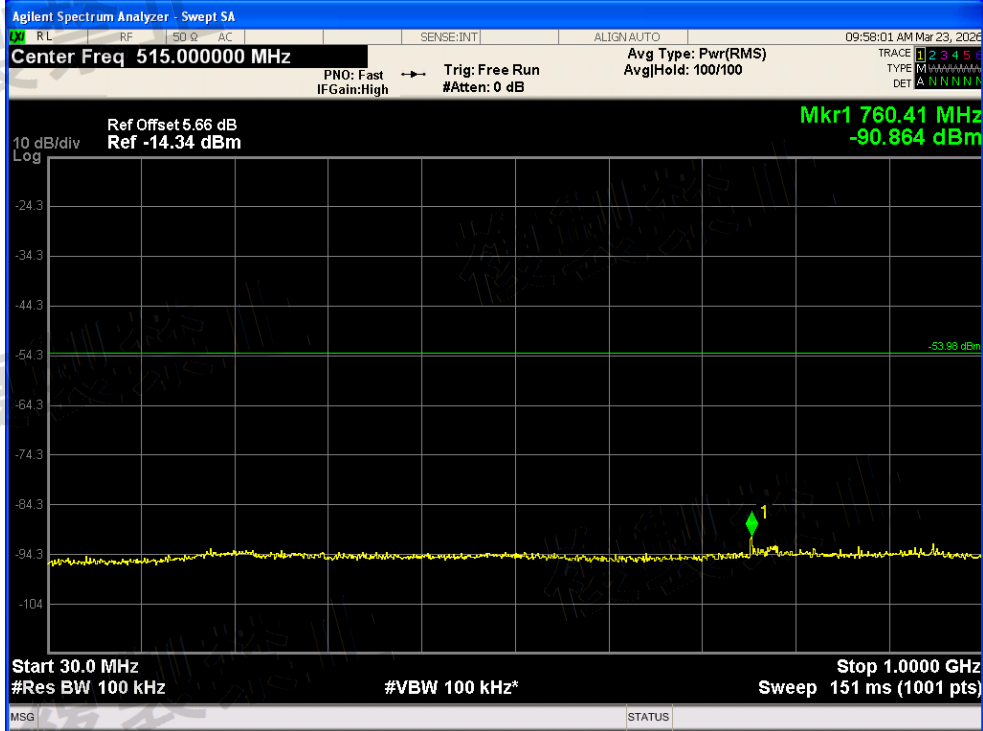
Rx. Spurious NVNT ax40 2422MHz Ant1 @ 30MHz-1000MHz



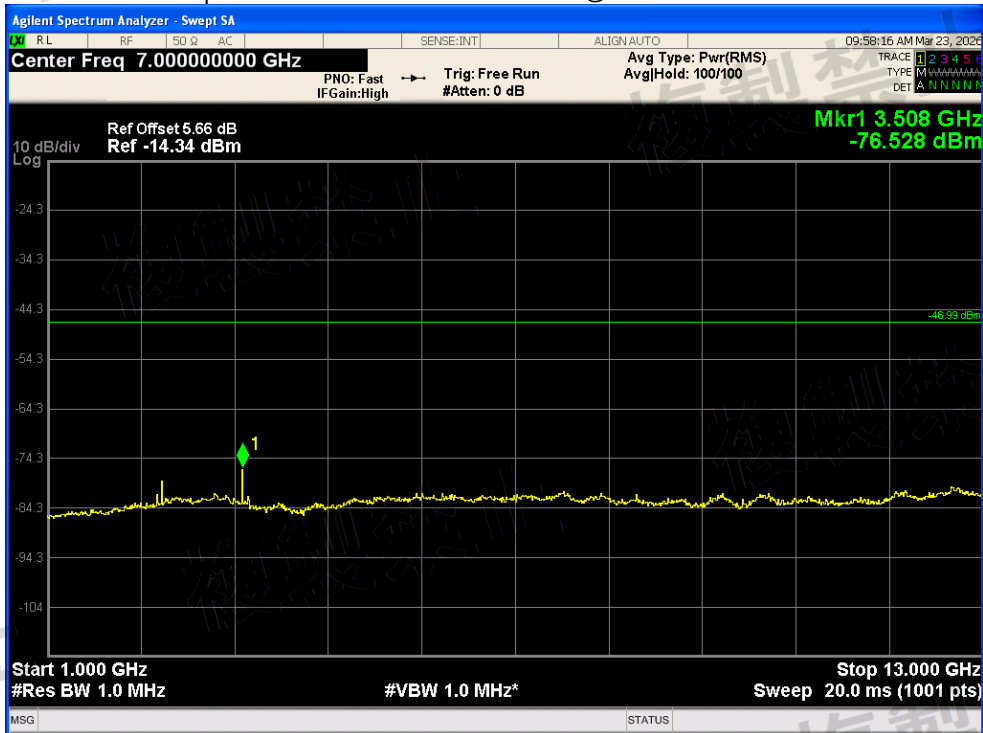
Rx. Spurious NVNT ax40 2422MHz Ant1 @ 1000MHz-13000MHz



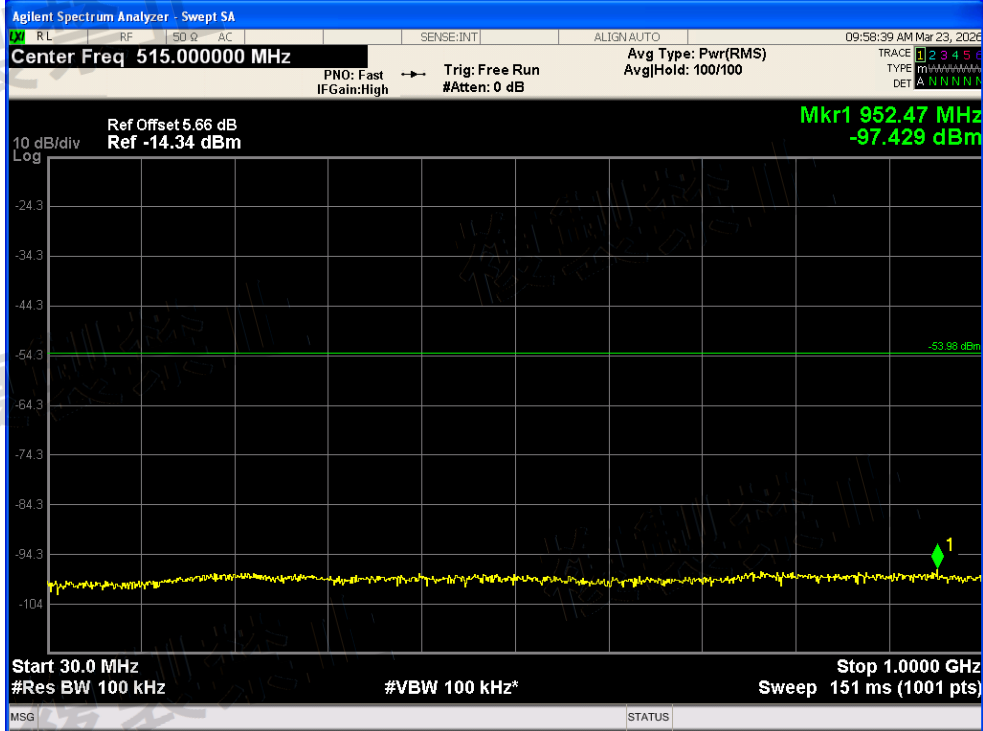
Rx. Spurious NVNT ax40 2442MHz Ant1 @ 30MHz-1000MHz



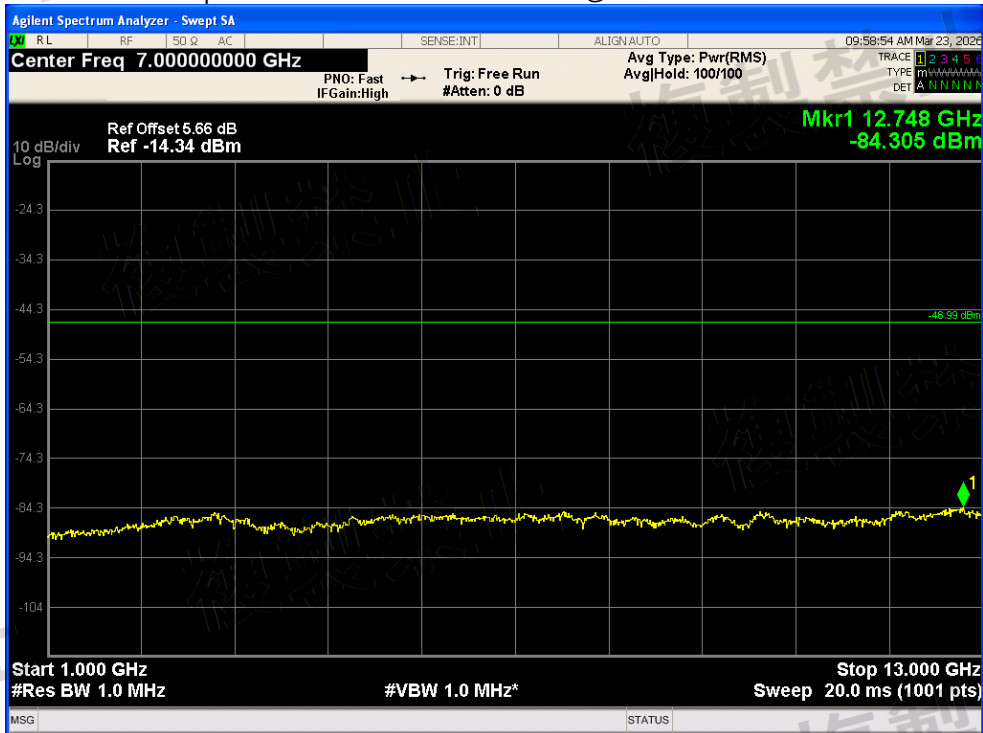
Rx. Spurious NVNT ax40 2442MHz Ant1 @ 1000MHz-13000MHz



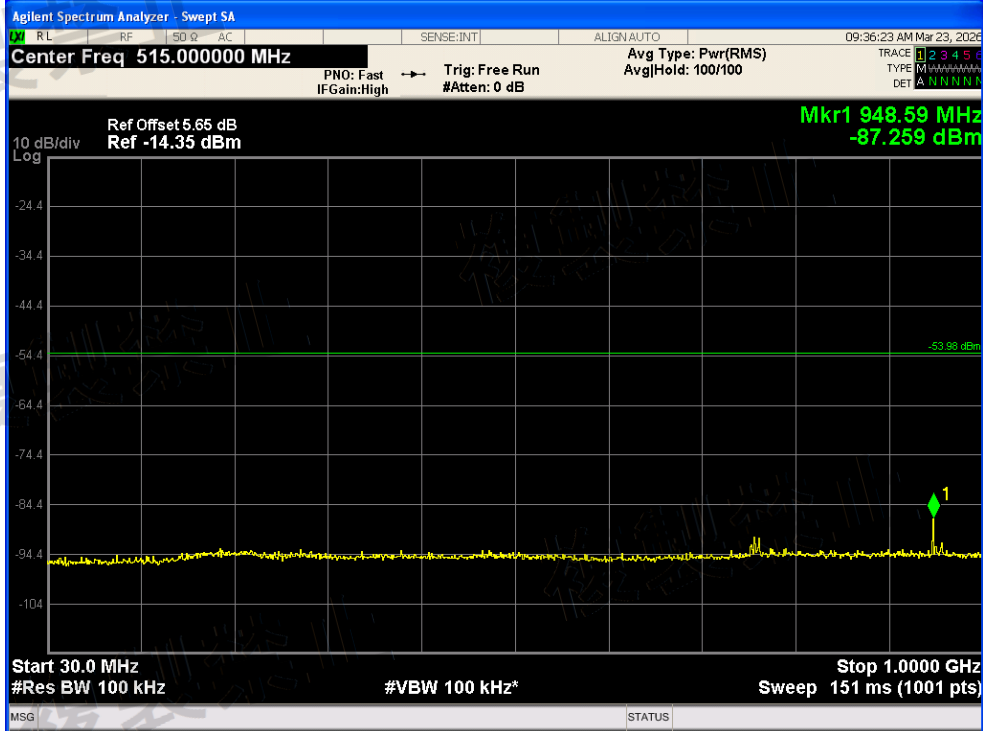
Rx. Spurious NVNT ax40 2462MHz Ant1 @ 30MHz-1000MHz



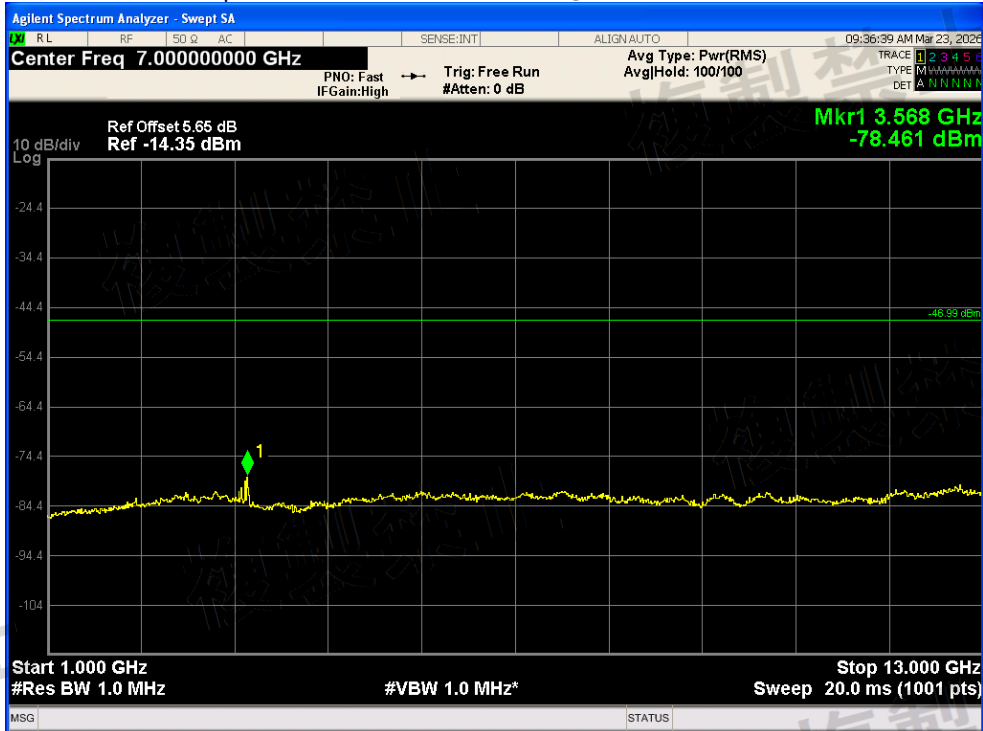
Rx. Spurious NVNT ax40 2462MHz Ant1 @ 1000MHz-13000MHz



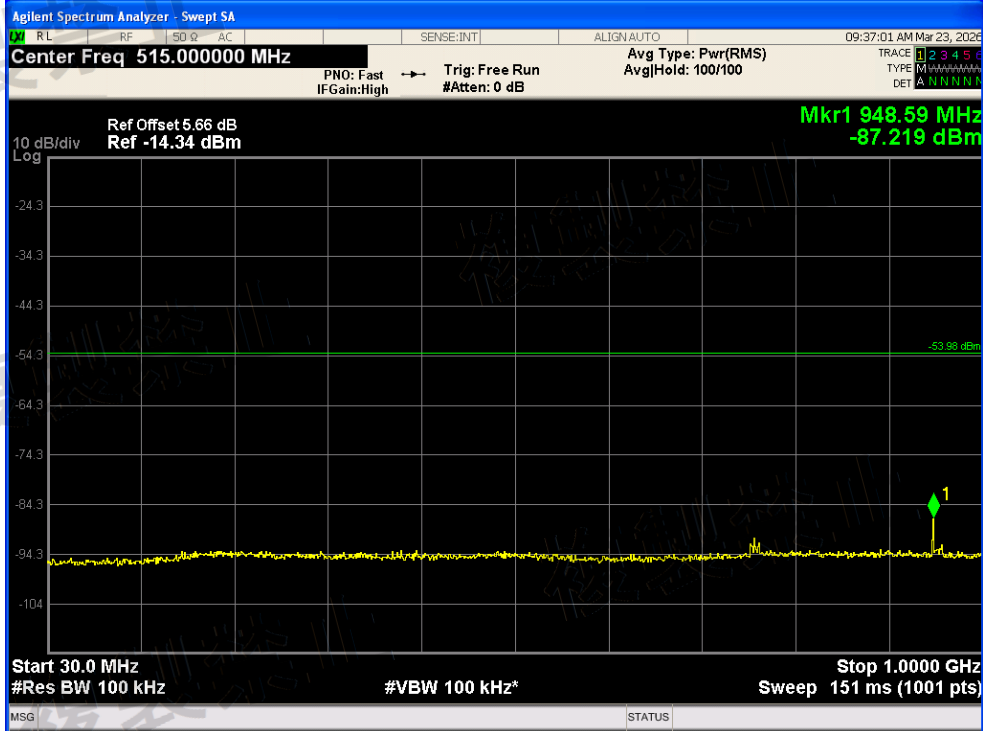
Rx. Spurious NVNT b 2412MHz Ant1 @ 30MHz-1000MHz



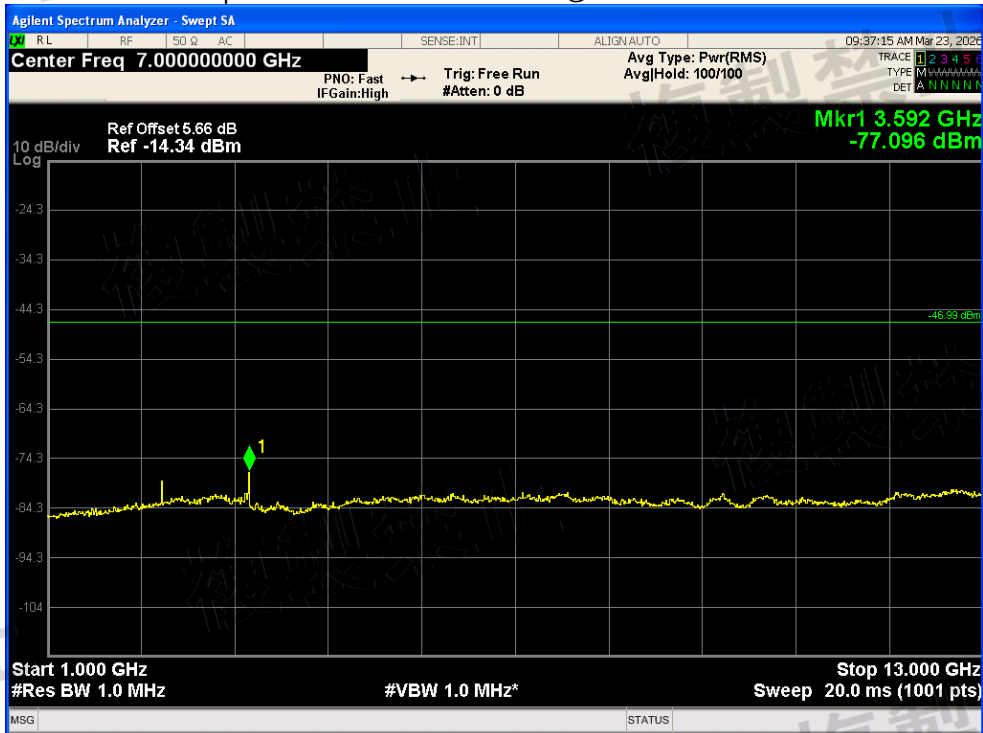
Rx. Spurious NVNT b 2412MHz Ant1 @ 1000MHz-13000MHz



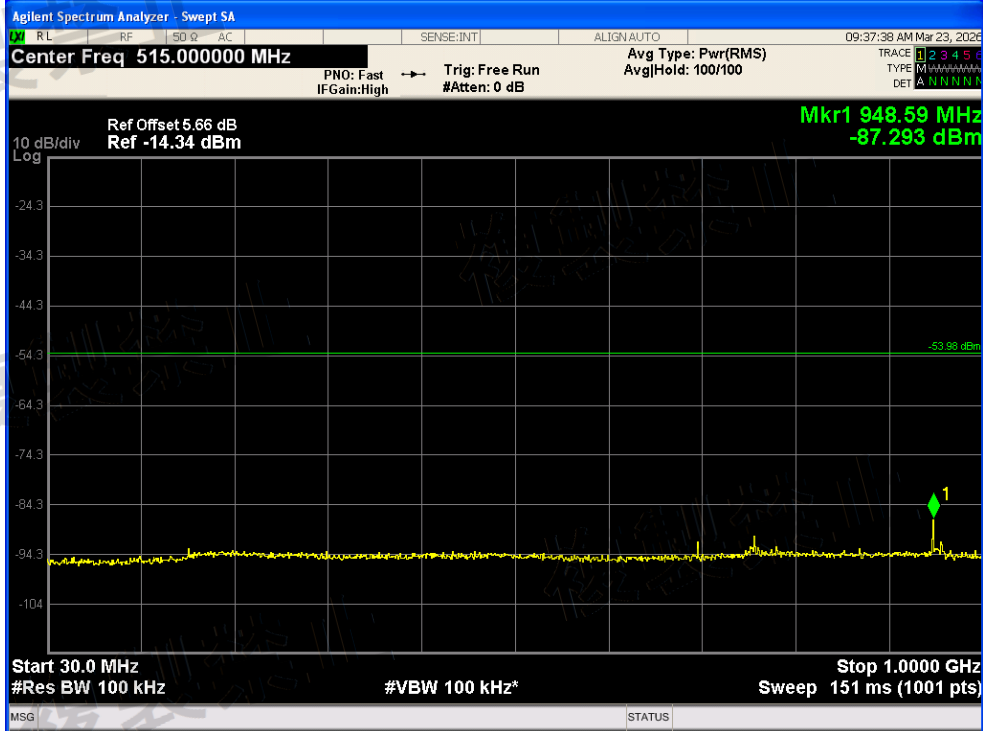
Rx. Spurious NVNT b 2442MHz Ant1 @ 30MHz-1000MHz



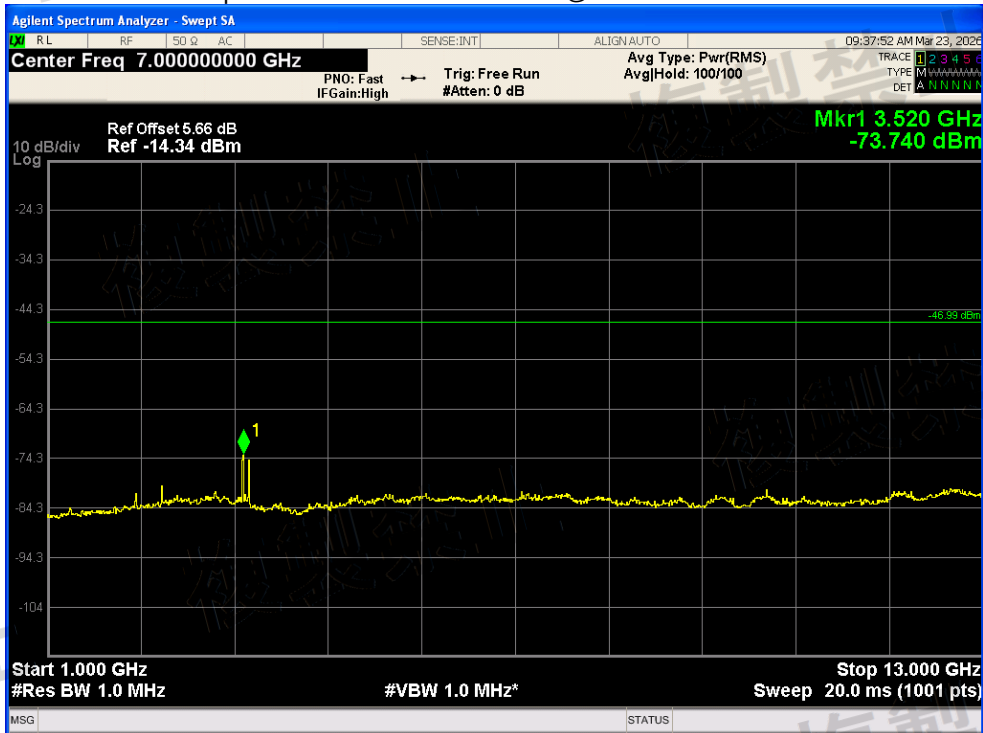
Rx. Spurious NVNT b 2442MHz Ant1 @ 1000MHz-13000MHz



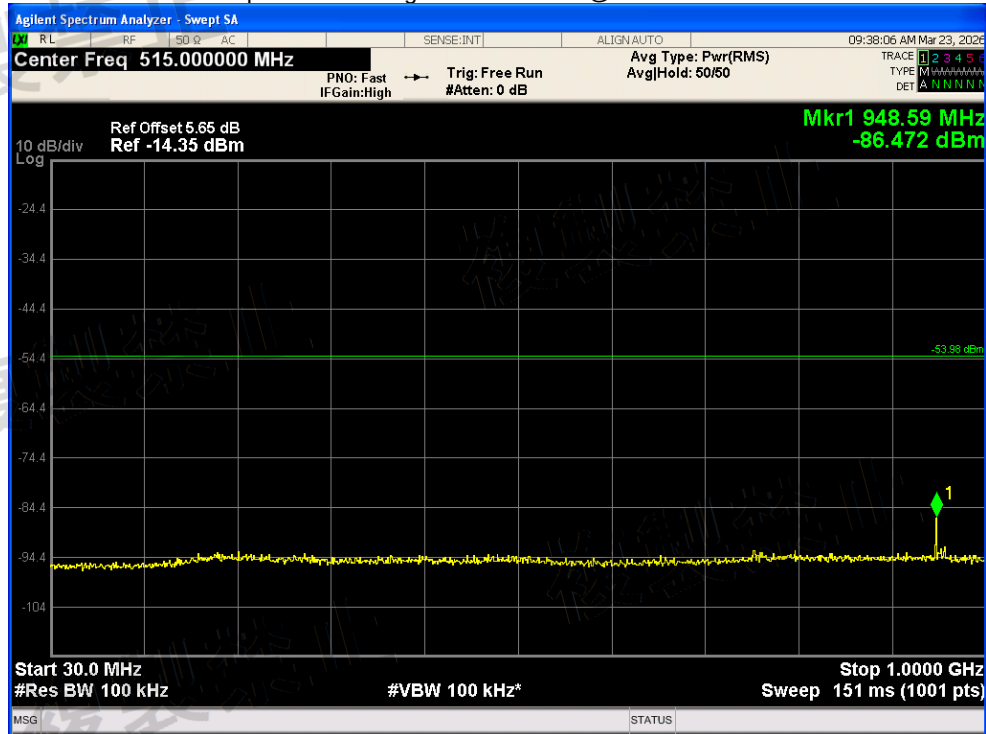
Rx. Spurious NVNT b 2472MHz Ant1 @ 30MHz-1000MHz



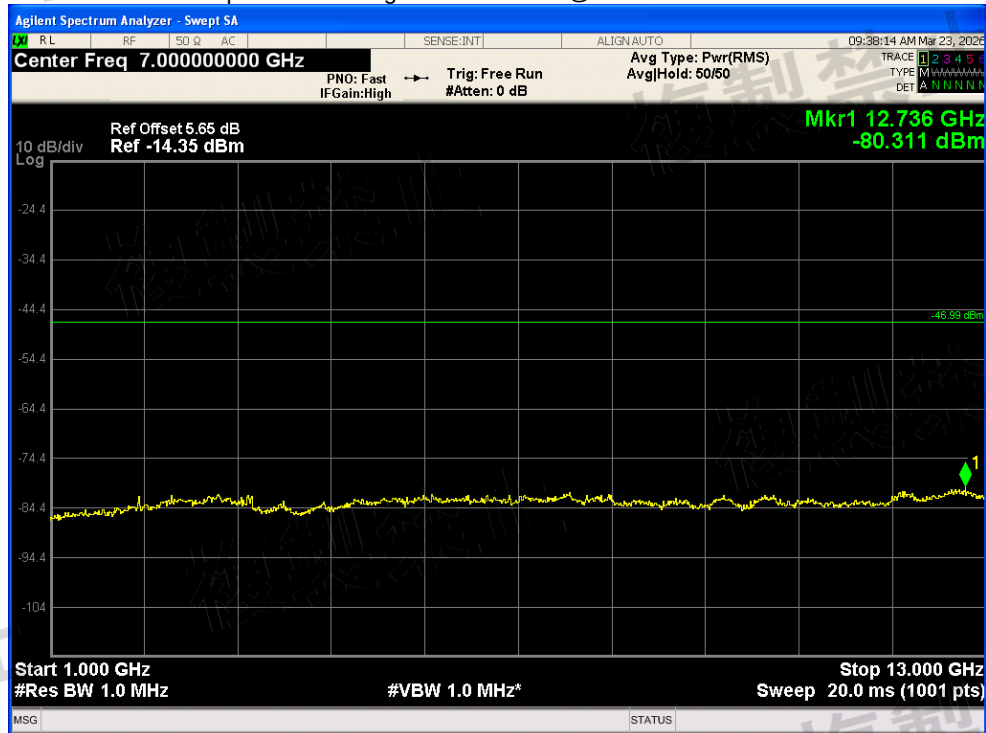
Rx. Spurious NVNT b 2472MHz Ant1 @ 1000MHz-13000MHz



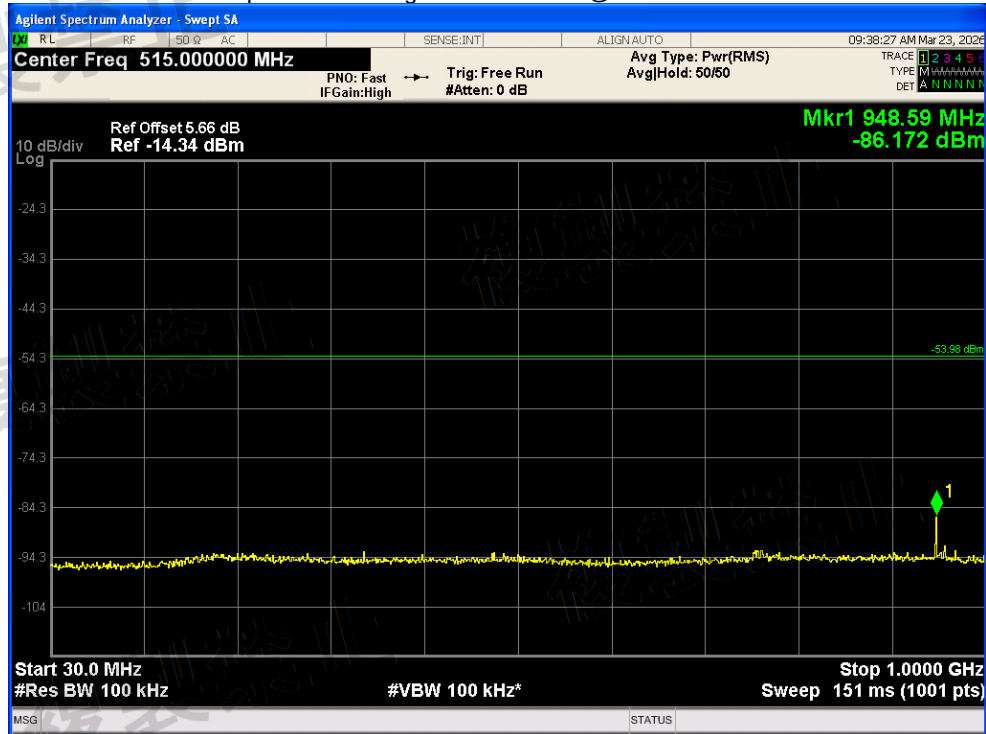
Rx. Spurious NVNT g 2412MHz Ant1 @ 30MHz-1000MHz



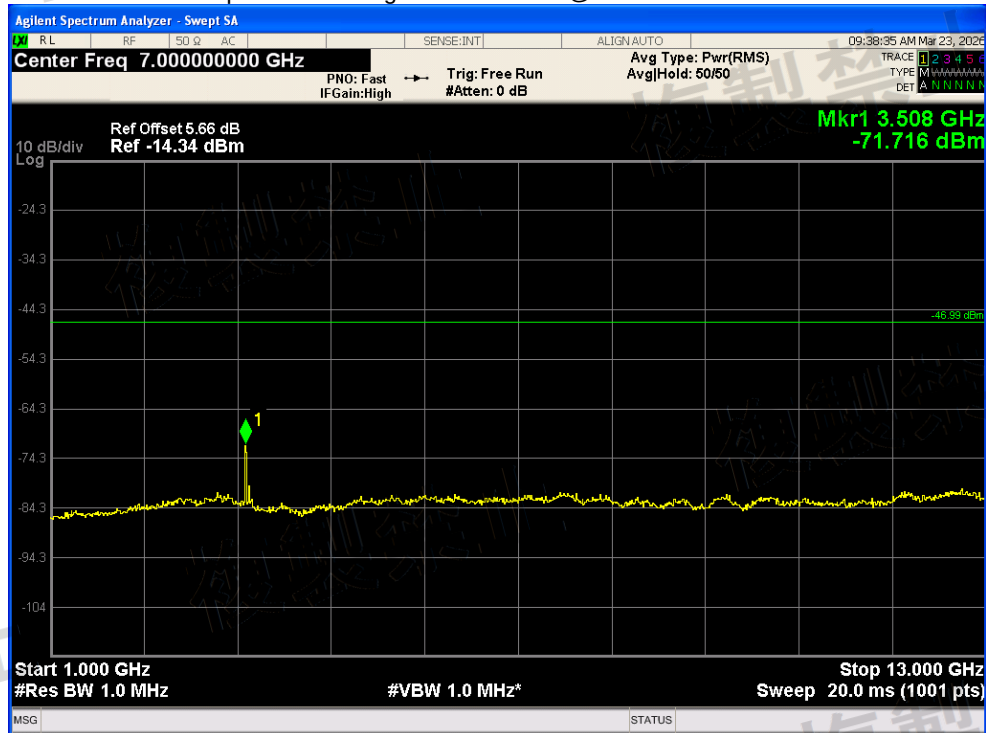
Rx. Spurious NVNT g 2412MHz Ant1 @ 1000MHz-13000MHz



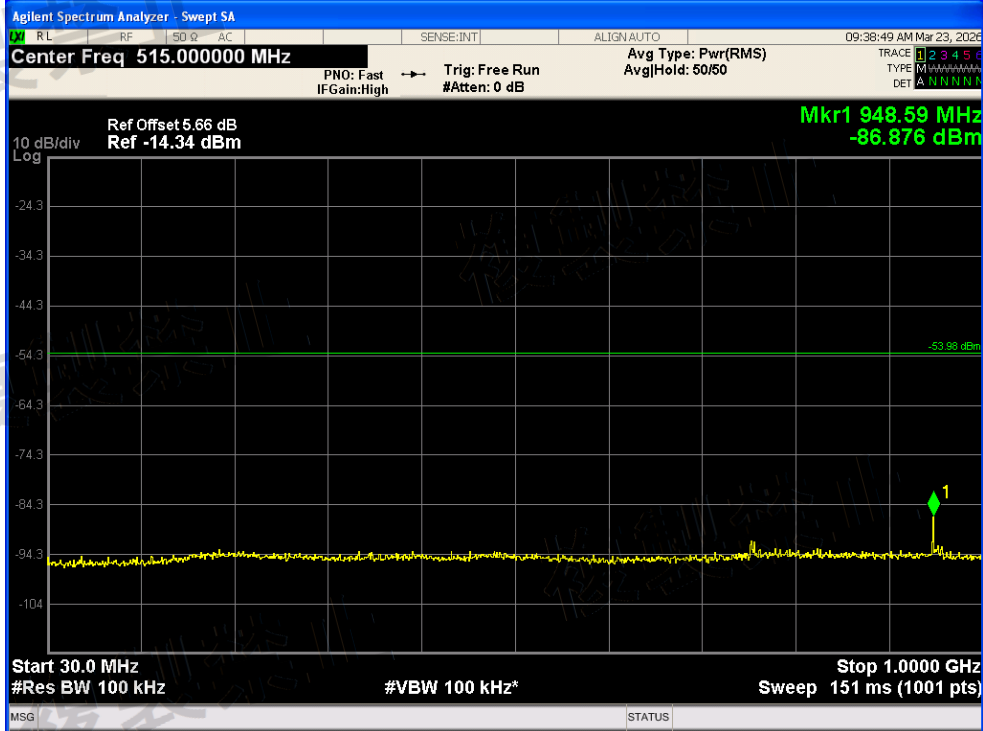
Rx. Spurious NVNT g 2442MHz Ant1 @ 30MHz-1000MHz



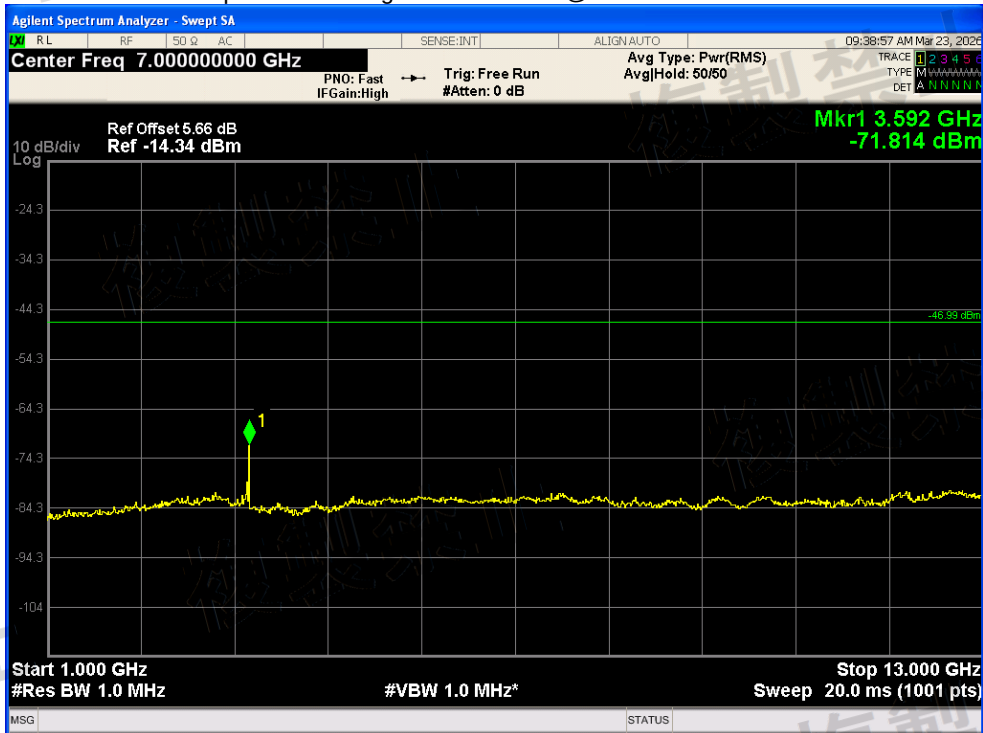
Rx. Spurious NVNT g 2442MHz Ant1 @ 1000MHz-13000MHz



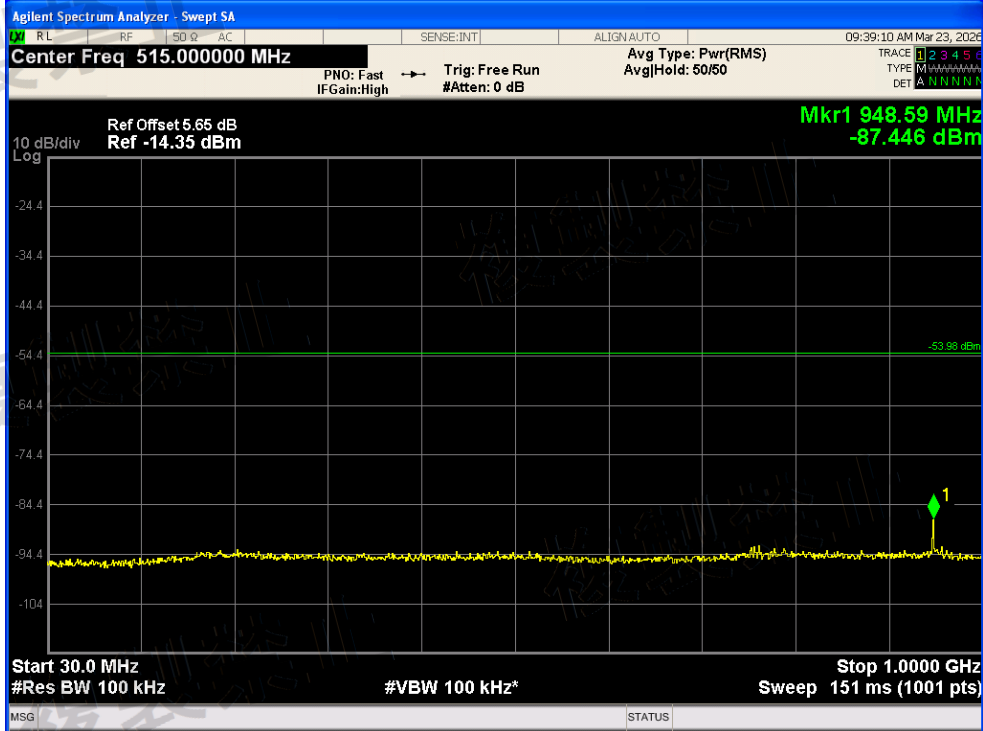
Rx. Spurious NVNT g 2472MHz Ant1 @ 30MHz-1000MHz



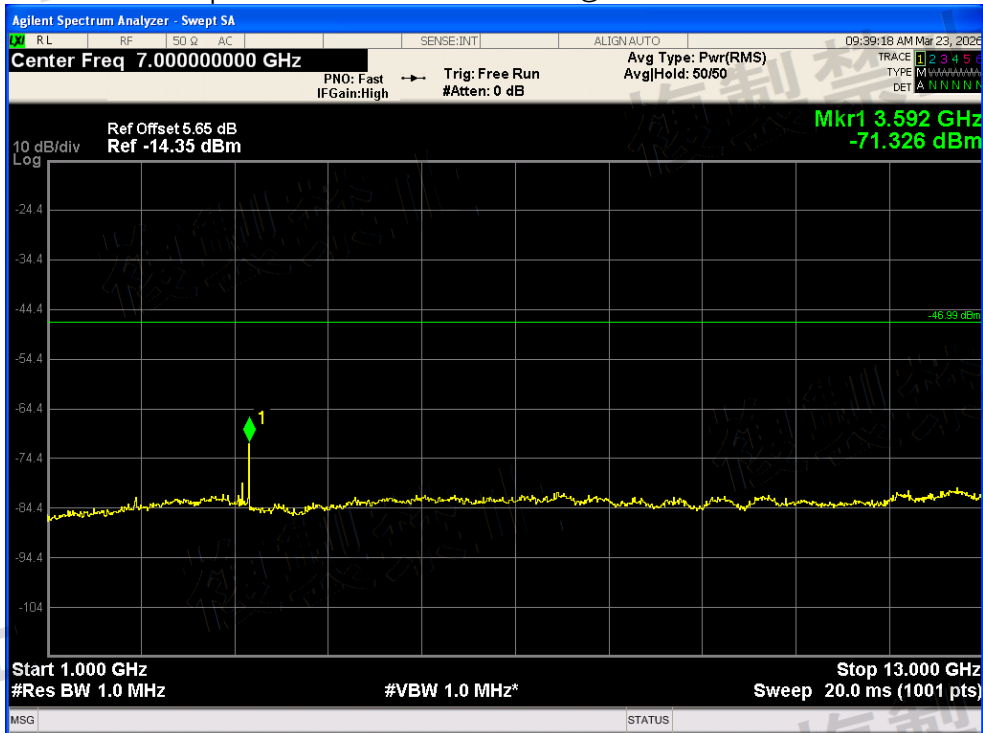
Rx. Spurious NVNT g 2472MHz Ant1 @ 1000MHz-13000MHz



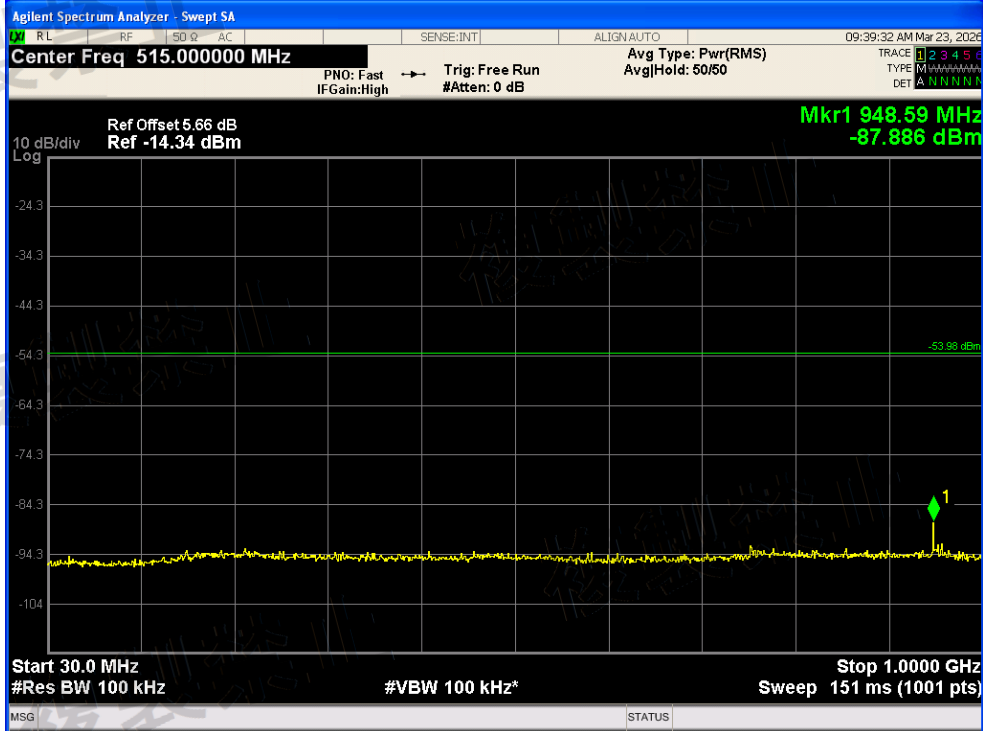
Rx. Spurious NVNT n20 2412MHz Ant1 @ 30MHz-1000MHz



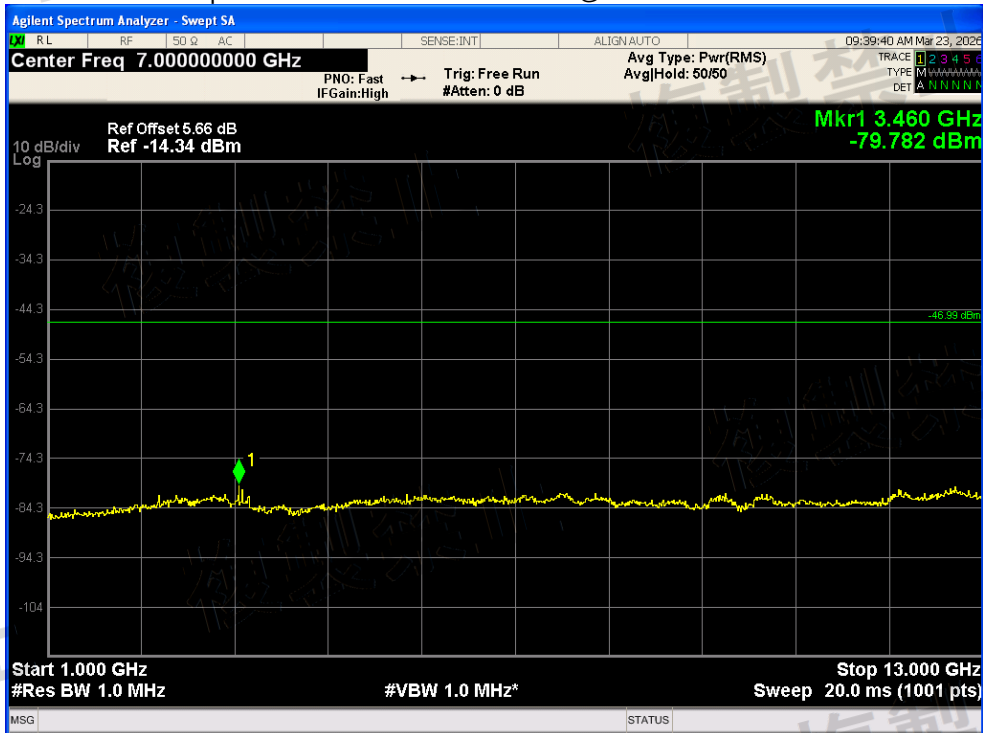
Rx. Spurious NVNT n20 2412MHz Ant1 @ 1000MHz-13000MHz



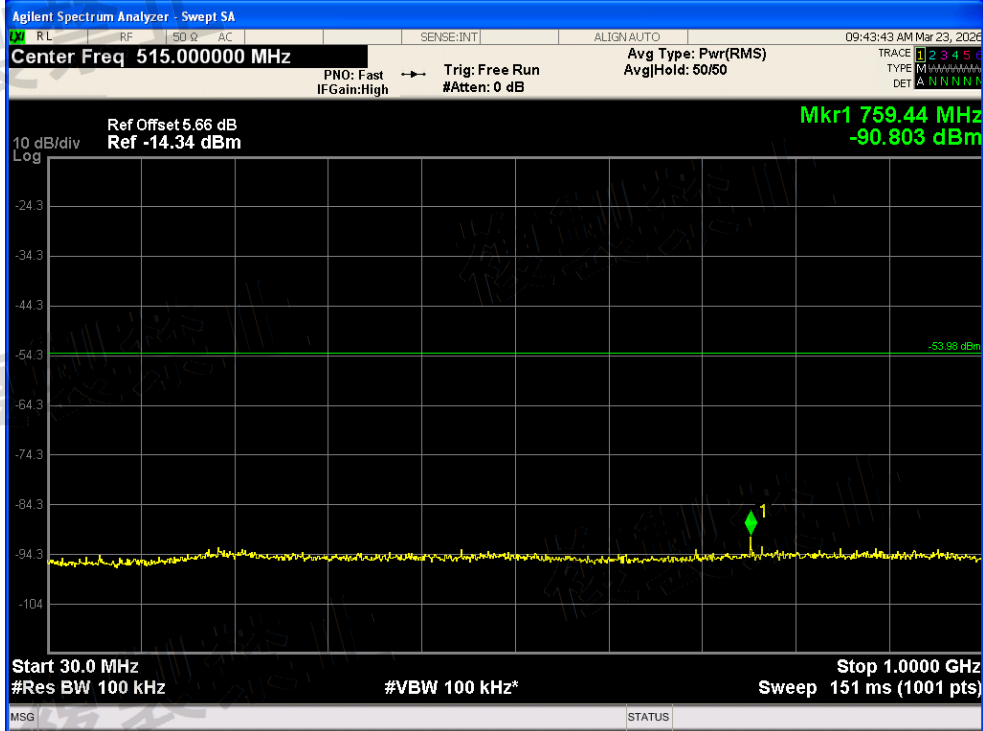
Rx. Spurious NVNT n20 2442MHz Ant1 @ 30MHz-1000MHz



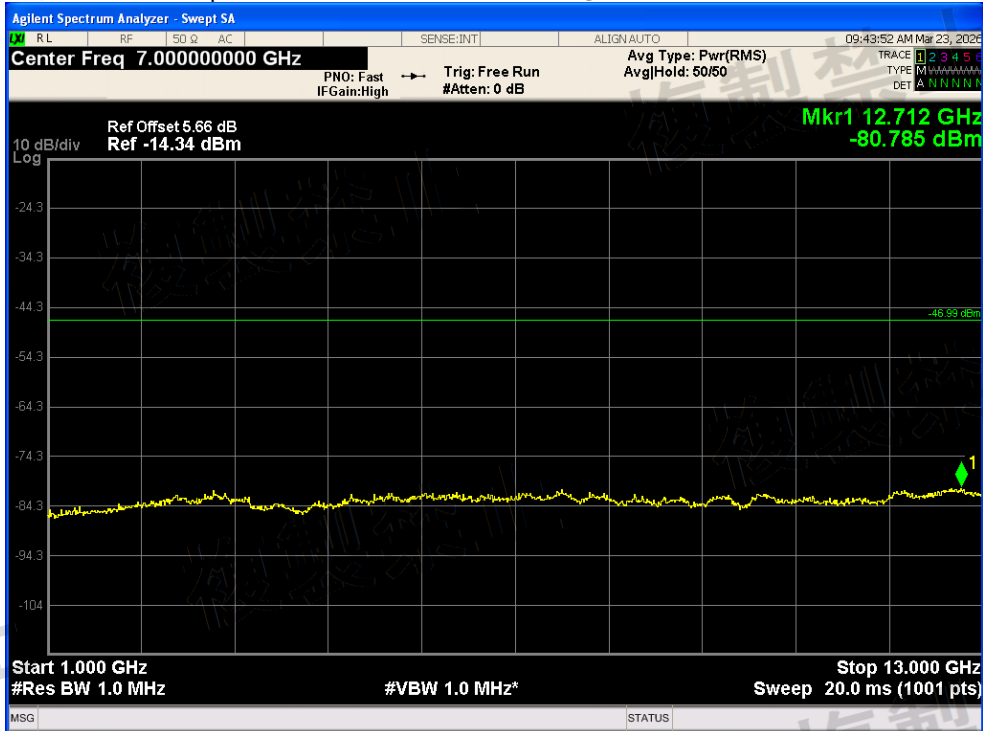
Rx. Spurious NVNT n20 2442MHz Ant1 @ 1000MHz-13000MHz



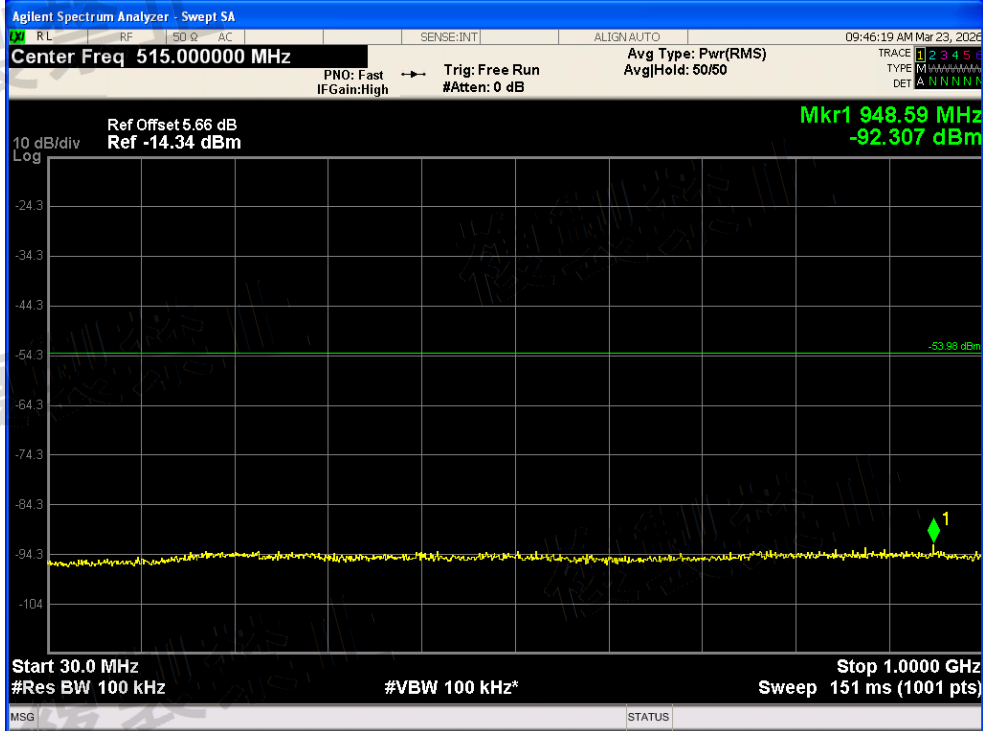
Rx. Spurious NVNT n20 2472MHz Ant1 @ 30MHz-1000MHz



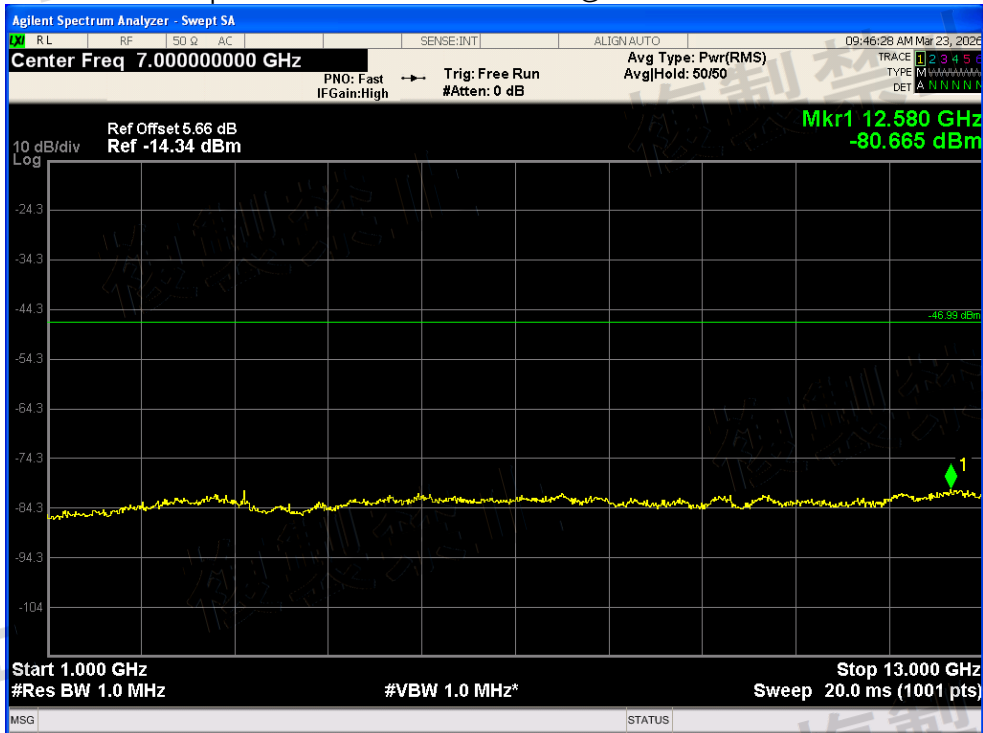
Rx. Spurious NVNT n20 2472MHz Ant1 @ 1000MHz-13000MHz



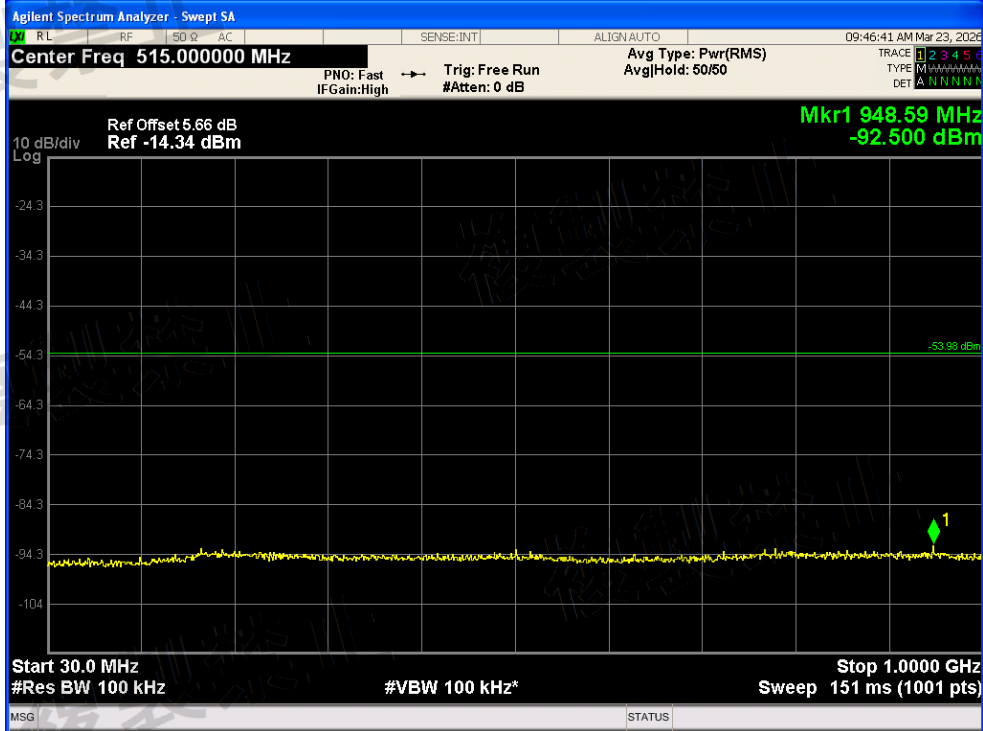
Rx. Spurious NVNT n40 2422MHz Ant1 @ 30MHz-1000MHz



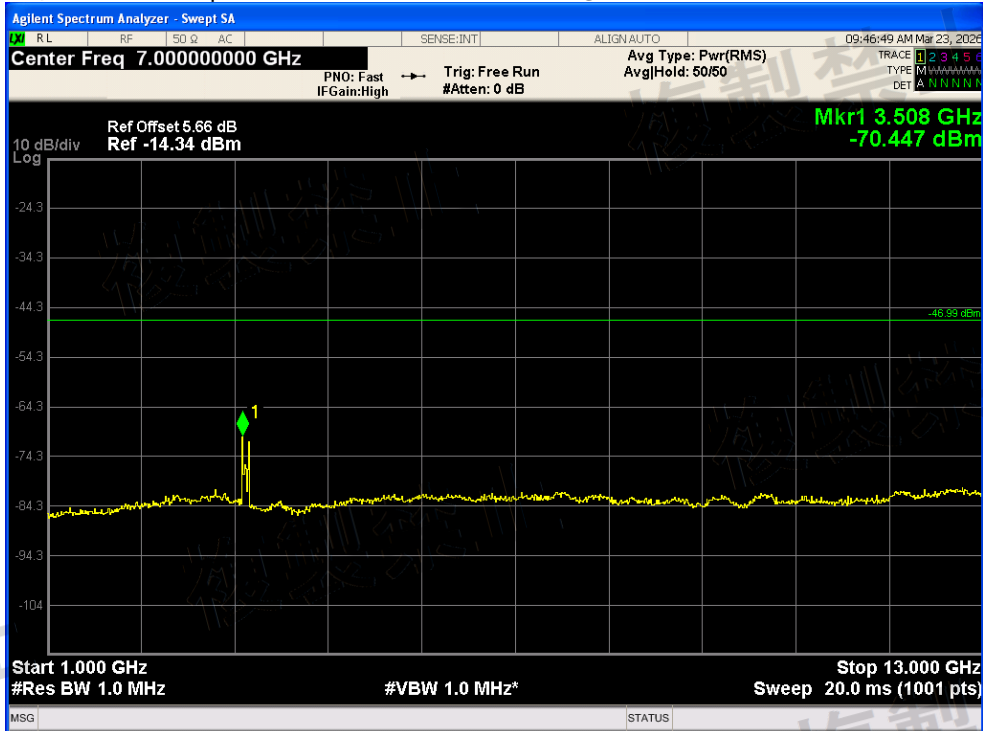
Rx. Spurious NVNT n40 2422MHz Ant1 @ 1000MHz-13000MHz



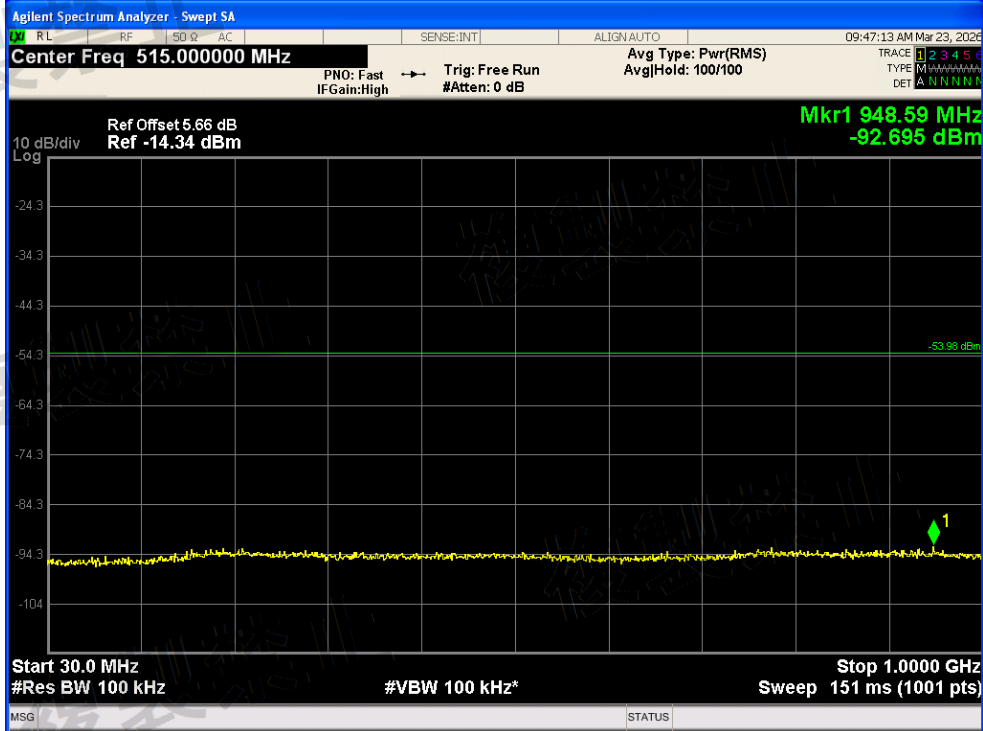
Rx. Spurious NVNT n40 2442MHz Ant1 @ 30MHz-1000MHz



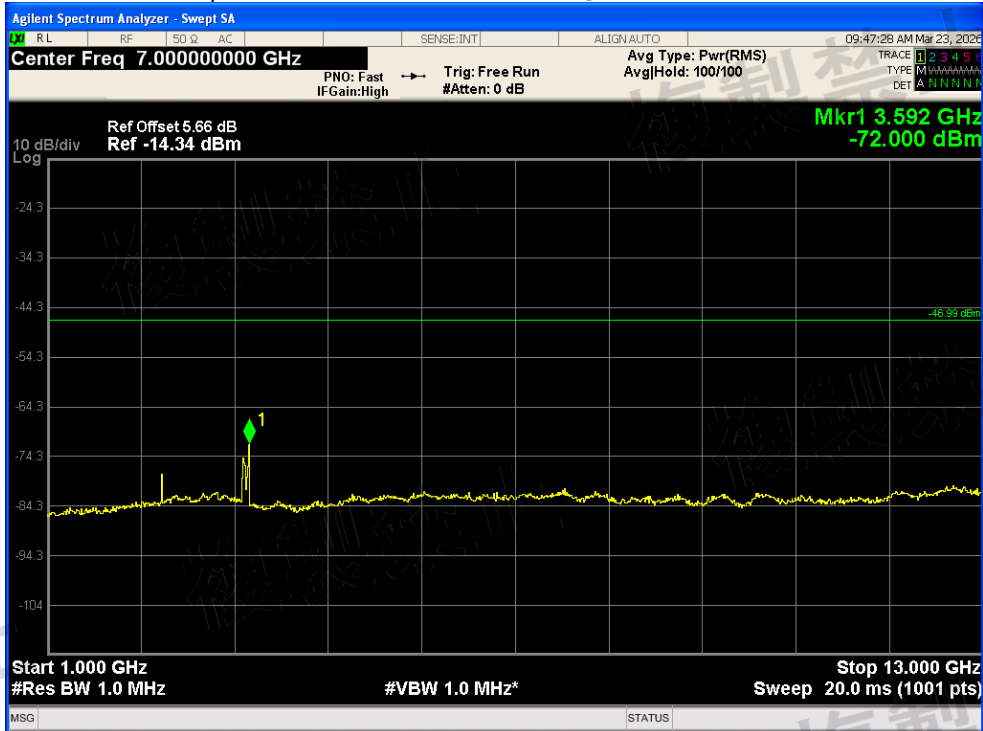
Rx. Spurious NVNT n40 2442MHz Ant1 @ 1000MHz-13000MHz



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



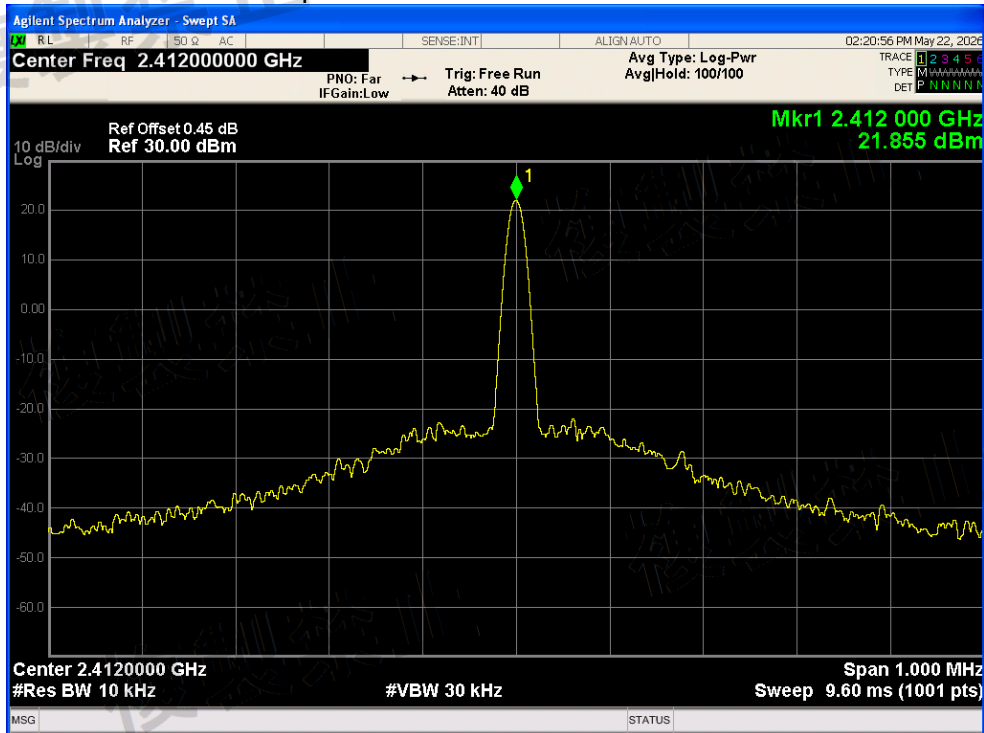
Rx. Spurious NVNT n40 2462MHz Ant1 @ 1000MHz-13000MHz



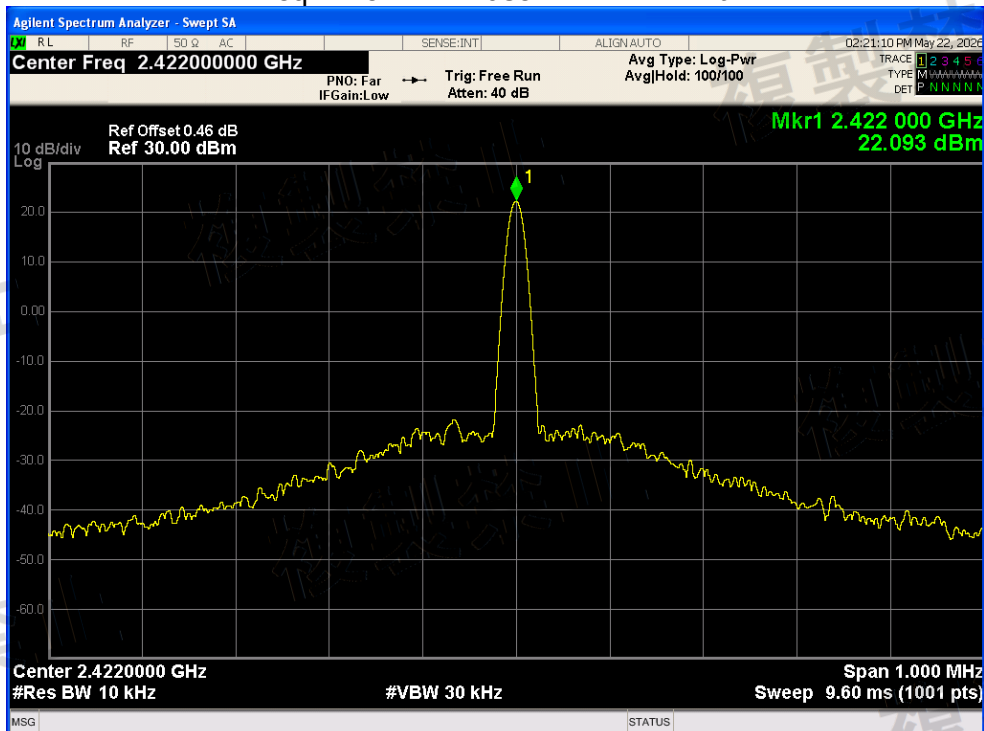
12.7 FREQUENCY ERROR

Condition	Mode	Frequency (MHz)	Antenna	Measured Frequency (MHz)	Deviation (ppm)	Limit (ppm)	Verdict
NVNT	user	2412	Ant1	2412	0	50	Pass
NVNT	user	2422	Ant1	2422	0	50	Pass
NVNT	user	2442	Ant1	2442	0	50	Pass
NVNT	user	2462	Ant1	2462	0	50	Pass
NVNT	user	2472	Ant1	2472	0	50	Pass

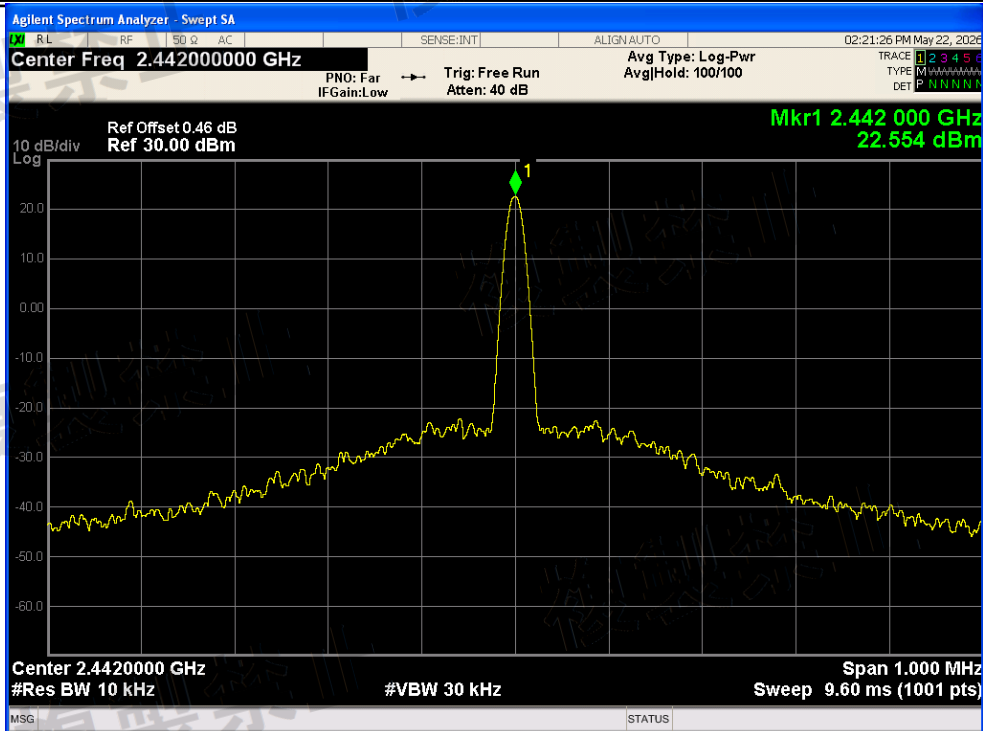
Freq. Error NVNT user 2412MHz Ant1



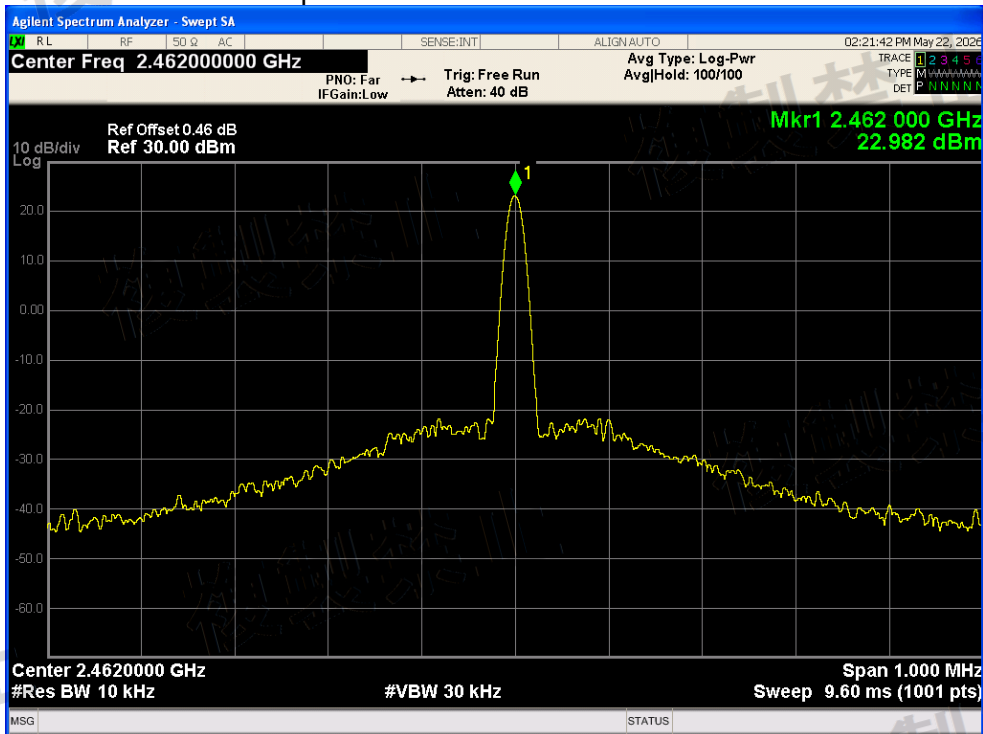
Freq. Error NVNT user 2422MHz Ant1



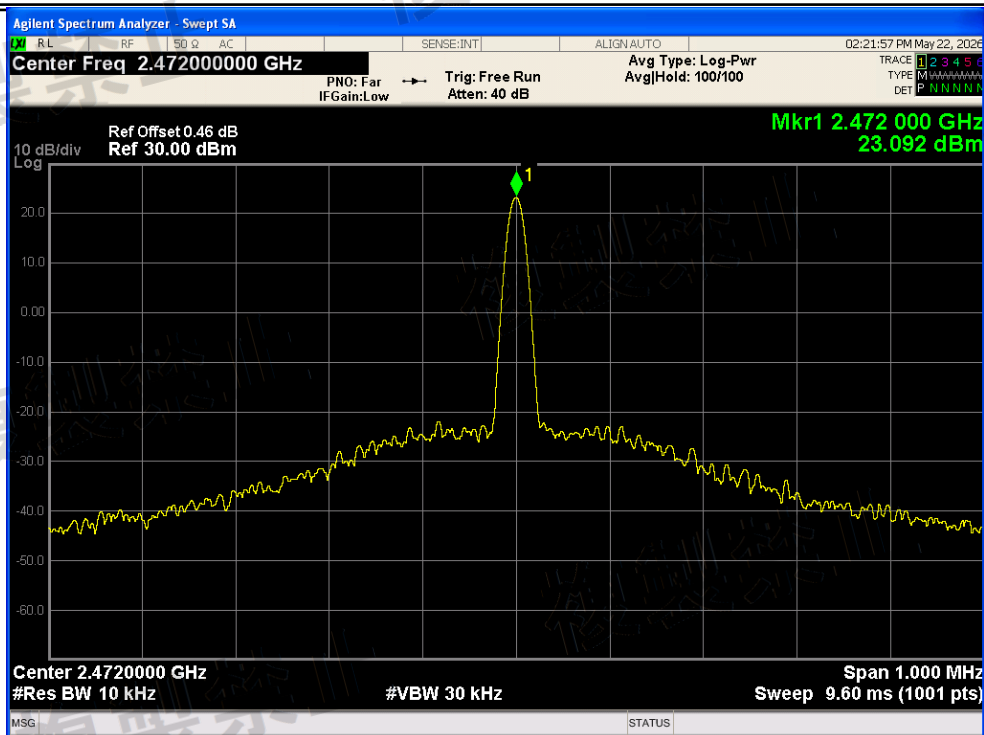
Freq. Error NVNT user 2442MHz Ant1



Freq. Error NVNT user 2462MHz Ant1



Freq. Error NVNT user 2472MHz Ant1



REPORT IS FINISHED.