



Report No.: ET-26063045E02

MIC TEST REPORT

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Manufacturer: JAWAWAKEN TECHNOLOGY CO., LTD.
Address of Manufacturer: Room 2403, East Tower, Lepu Building, No.60 Xingke Road, Xili Street, Nanshan District, Shenzhen City, Guangdong Province China
Factory: AnHui LingKeSen Electronics Co., Ltd.
Address of Factory: Factory Building A18, Wanyang Zhongchuang City, intersection of Shusheng Road and Huihuang Road, Guanting Town, Feixi County, Hefei City, Anhui Province
Product Name: Mini PC
Model No.: RE2, RE2 mini, RE2 PRO, RE2 ULTRA, RE2 MAX, RE2 AI
Trade Mark: JAWAWAKEN
Applicable standards: MIC notification No. 88 of 2004, annex 43 Article 2, Paragraph 1, Item 19
Date of Test: Jun.30, 2026-Jul.06, 2026
Date of report issued: Jul.07, 2026

Remark:

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

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

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Report Revision History		
Report No.	Description	Issue Date
ET-26063045E02	Original	Jul.07, 2026

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1 Test Summary

Item	Description of Test	Result	Test by
Transmitter Parameters			
1	Frequency Tolerance	Pass	Yvan Fan
2	Antenna Power	Pass	Yvan Fan
3	Tolerances for Antenna Power	Pass	Yvan Fan
4	Occupied Bandwidth	Pass	Yvan Fan
5	Unwanted Emission strength	Pass	Yvan Fan
6	E.I.R.P	Pass	Yvan Fan
7	Secondary Radiated Emission Strength	Pass	Yvan Fan
9	Carrier sensing function(1)	Pass,note1	Yvan Fan
	Carrier sensing function(2)	Pass,note2	Yvan Fan
10	Antenna Absolute Gain	Pass	Yvan Fan
11	Half power beam angle	N/A	/
12	Interference Prevention Function	Pass	Yvan Fan

N/A: Not Applicable.

Note1: Apply for the Occupied bandwidth within 26MHz-40MHz.

Note2: Application to transmitting devices which E.I.R.P. is less than [2.14dBi+antenna power limit] and the shortage of E.I.R.P. is compensated by the antenna power.

Note3: Application to transmitting devices which EIRP greater than 12.14dBm.

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

N/A is an abbreviation for Not Applicable.

Note: Compliance determination rules

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

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

Measurement Uncertainty

Test Item	Measurement Uncertainty	Notes
Bandwidth	±0.72%	(1)
Antenna Power	±0.67dB	(1)
Frequency Tolerance	±6x10 ⁻⁷	(1)
Conducted spurious emission	±0.64dB	(1)
Spurious emissions,radiated(>1G)	±4.16dB	(1)
Spurious emissions,radiated(<1G)	±4.88dB	(1)

Note (1): The measurement uncertainty is for coverage factor of k=2 and a level of confidence of 95%.



2 General Information

2.1 General Description of EUT

Product Name:	Mini PC
Model No.:	RE2, RE2 mini, RE2 PRO, RE2 ULTRA, RE2 MAX, RE2 AI
Difference of Model:	All models have the same electrical design (i.e. circuit design, PCB layout, RF module/circuit, antenna type and position, components on PCB, etc.), mechanical structure and design are the same, only the model name and color are different
Test model No.:	RE2
Hardware version:	N/A
Software version:	N/A
Sample(s) Status	Engineer sample
Channel numbers:	802.11b/802.11g /802.11n(HT20): 13 802.11n(HT40):9
Channel separation:	5MHz
Modulation technology:	802.11b: Direct Sequence Spread Spectrum (DSSS) 802.11g/802.11n(H20)/802.11n(HT40): Orthogonal Frequency Division Multiplexing (OFDM)
Antenna Type:	FPC antenna
Antenna gain:	3.55 dBi (Note: Antenna information is provided by applicant, Testing lab is not responsible for the accuracy of the information.)
Battery:	N/A
Power supply:	DC 19V 3.42A
Adapter:	Model: E065-1R190342VU INPUT:AC 100-240V 50/60Hz 1.5A Output: DC 19.0V 3.42A

Remark: For more details, refer to the user's manual of the EUT.



Operation Frequency each of channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2412MHz	5	2432MHz	9	2452MHz	13	2472MHz
2	2417MHz	6	2437MHz	10	2457MHz	/	/
3	2422MHz	7	2442MHz	11	2462MHz	/	/
4	2427MHz	8	2447MHz	12	2467MHz	/	/

Test channel	Frequency (MHz)	
	802.11b/802.11g/802.11n(HT20)	802.11n(HT40)
Lowest channel	2412MHz	2422MHz
Middle channel	2442MHz	2442MHz
Highest channel	2472MHz	2462MHz

2.2 Test mode

Transmitting mode	Keep the EUT in continuously transmitting mode
<i>Remark:</i> Remark: During the test, the dutycycle >98%, the test voltage was tuned from 90% to 110% of the nominal rated supply voltage, and found that the worst case was under the nominal rated supply condition. So the report just shows that condition's data.	

We have verified the construction and function in typical operation. All the test modes were carried out with the EUT in transmitting operation, which was shown in this test report and defined as follows:				
Pre-scan all kind of data rate in lowest channel, and found the follow list which it was worst case.				
Mode	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)
Data rate	1Mbps	6Mbps	6.5Mbps	13Mbps

2.3 Description of Support Units

No.	Description	Manufacturer	Model	Serial Number
1	/	/	/	/
2	/	/	/	/
3	/	/	/	/

2.4 Environmental conditions

Temperature range:	23.7℃
Humidity range:	47%
Pressure range:	101.6kPa

2.5 Abnormalities from Standard Conditions

Voltage Fluctuation test	Normal Voltage	+10% of Normal Voltage	-10% of Normal Voltage
DC Power	19V	20.9V	17.1V
RF Chip	3.3V	3.3V	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 power source is varied by +/- 10%, fluctuation of power supply to the RF circuit of EUT (excluding power source) is equal to or less than +/-1%, so only operated in normal voltage to test all regulations.

2.6 Test Facility

Test laboratory:	Shenzhen ETR Standard Technology Co., Ltd.
CNAS Registration No.:	L11864
Laboratory location:	103, Building A7 , Xinhe XinxingThird Industrial Area, Fuhai Road, Fuyong Street Bao'an District, Shenzhen

2.7 Additional Instructions

Test Software	DRTU.EXE
Power level setup	Default

3 Test Instruments list

Item	Equipment name	Manufacturer	Model	Serial No.	Calibration date	Due date
1	Spectrum analyzer	KEYSIGHT	N9020A	MY55370280	2026.03.05	2027.3.04
2	Power detector	MWRFTes	MW100-PSB	MW201020JYT	2026.3.05	2027.3.04
3	Signal generator	Agilent	N5182A	MY49060455	2026.3.05	2027.3.04
4	Oscilloscope	Tektronix	TDS3032B	B03245	2026.03.05	2027.3.04
5	DC Power Supply	LongWei	PS-305DF	170804961	2026.3.05	2027.3.04
6	Power Sensor	Keysight	U2021XA	MY54111006	2026.3.05	2027.3.04

Note:

1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).
2. Power detector includes built-in attenuator
3. Test Instruments Calibration Information

Used	Calibration Company: Abbreviation	Full Name of-calibration company
☒	CCIC	CCIC(Shenzhen)Metrology & Testing service Co. Ltds
☒	SHITONG	GUANGDONG SHITONG MEASURED INSTRUMENTS SERVICE CO.,LTD.
Calibration Information (Article 24-2, Paragraph 4 of the Radio Act)		
☐	(a) Calibration, conducted by the National institute of information and communication Technology (NICT) or a designated calibration agency under Article 102-18-1 of the Radio-Act	
☐	(b) Calibration conducted based on the regulations of Article 135 -or-144 of the Measurement Act	
☒	(c) Calibration conducted in foreign countries, which is equivalent to calibration conducted by the NICT or a designated calibration agency under Article 102-18-1 -of-the Radio Act	
☐	(d) Calibration, etc. conducted by using measuring instruments and other facilities listed at the bottom of appended table 3 of the Radio Act, which is to have been calibrated as described in (a) through (c) above.	

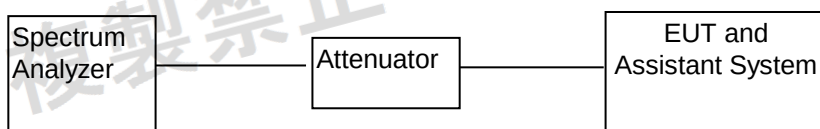
4 Test results and Measurement Data

4.1 Frequency Tolerance

4.1.1 Limits

- /+ 50ppm

4.1.2 Block diagram of test setup



4.1.3 Test Procedures

- (1) Configure EUT and assistant system according clause 2.3 and 4.3
- (2) Set EUT work in carrier Tx mode as described in clause 2.4
- (3) Connected the EUT's antenna port to the Spectrum Analyzer by suitable attenuator, set the Spectrum Analyzer as below:

Centre Frequency: The centre frequency of the channel under test.

Resolution BW: 10 KHz.

Video BW: 10 KHz.

Span: 1MHz.

Detector: Peak.

Trace Mode: Max Hold.

- (4) When the trace is complete, find the peak value of the power envelope and record the frequency.
- (5) Calculate frequency tolerance.

Tolerance (MHz)= Measured Frequency (MHz)- Centre Frequency (MHz)

Frequency tolerance (ppm)= Tolerance (MHz)/ Centre Frequency (MHz) ×10⁶ (ppm)



4.1.4 Test Result

Condition	Frequency (MHz)	Antenna	Measured Frequency (MHz)	Frequency Error (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
NVNT	2412	Ant1	2411.997	-3000	-1.24	50	Pass
NVNT	2442	Ant1	2441.997	-3000	-1.23	50	Pass
NVNT	2472	Ant1	2471.998	-2000	-0.81	50	Pass
NVNT	2422	Ant1	2421.997	-3000	-1.24	50	Pass
NVNT	2462	Ant1	2461.997	-3000	-1.22	50	Pass

Test plots: see next page

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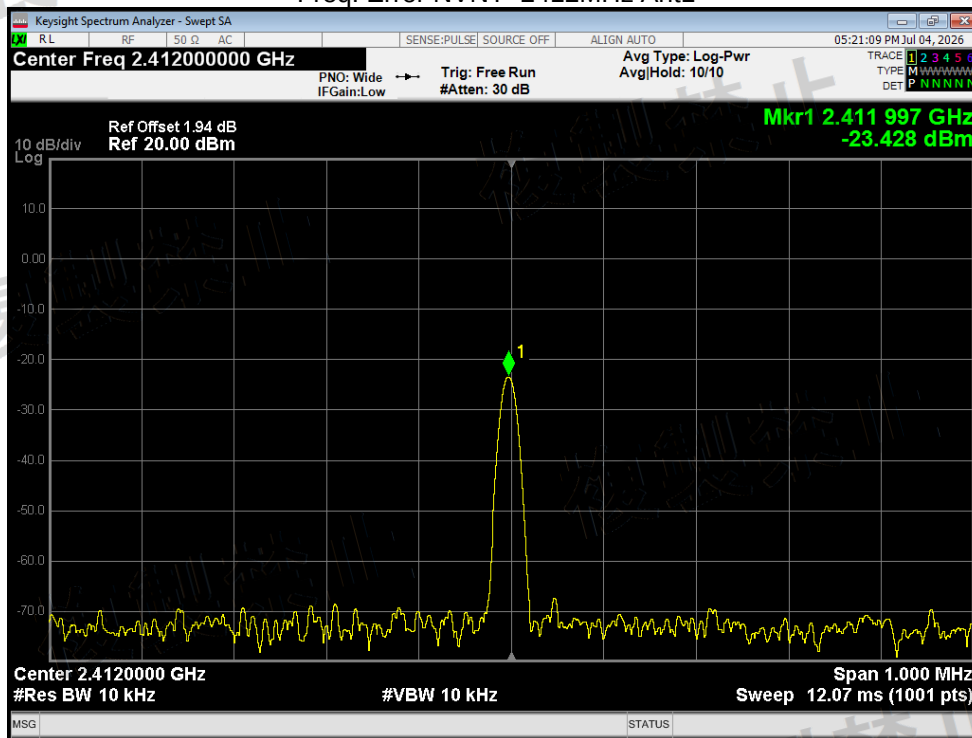
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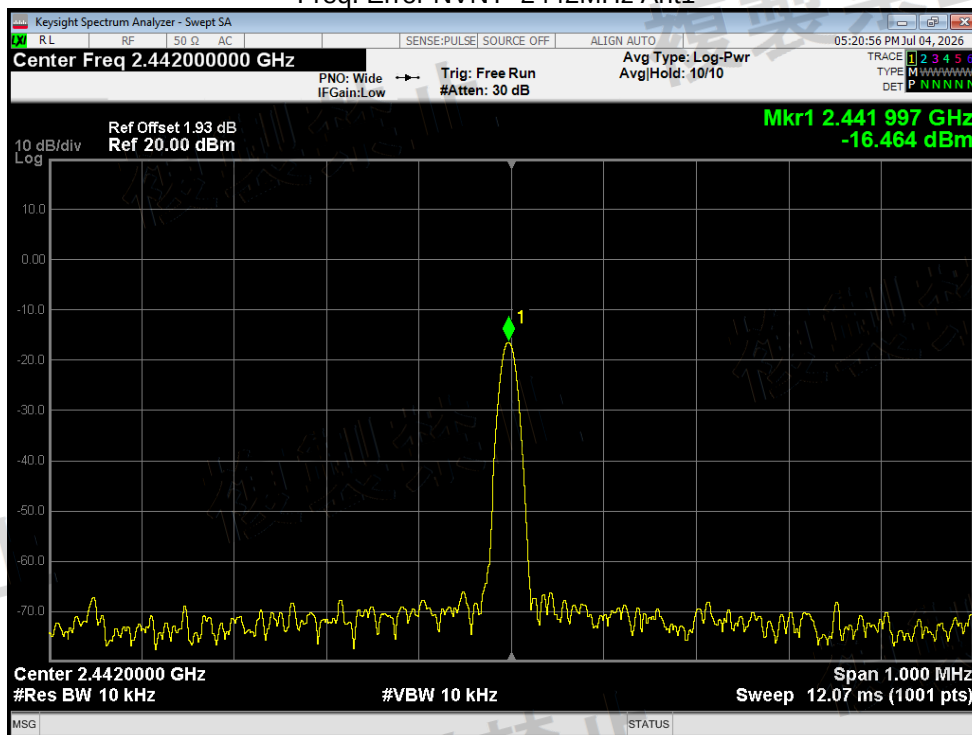
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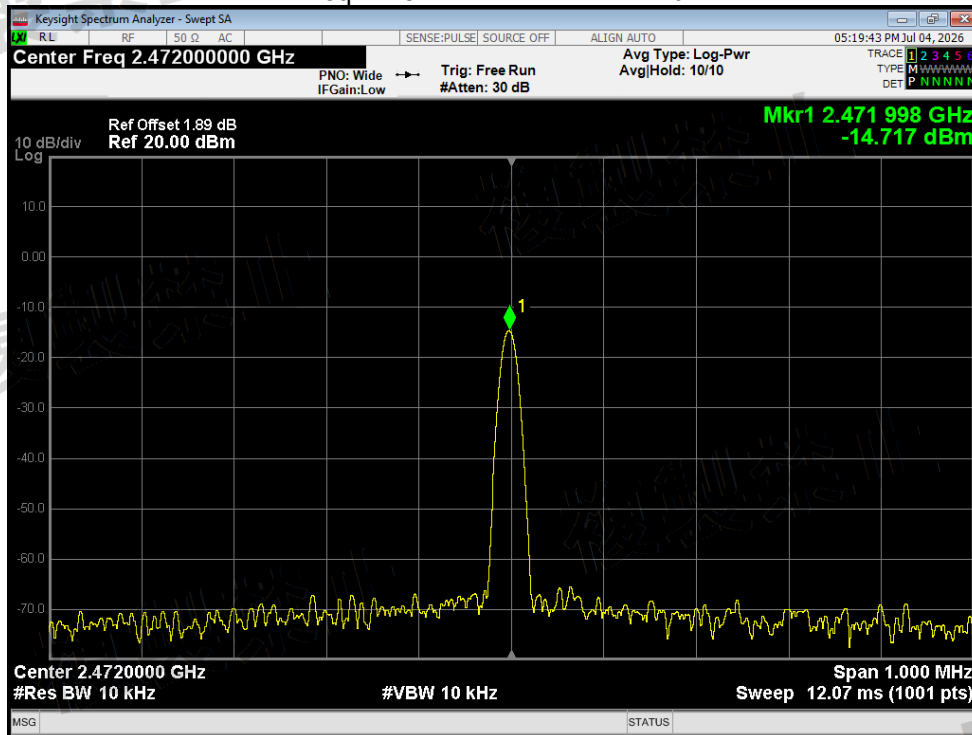
Freq. Error NVNT 2412MHz Ant1



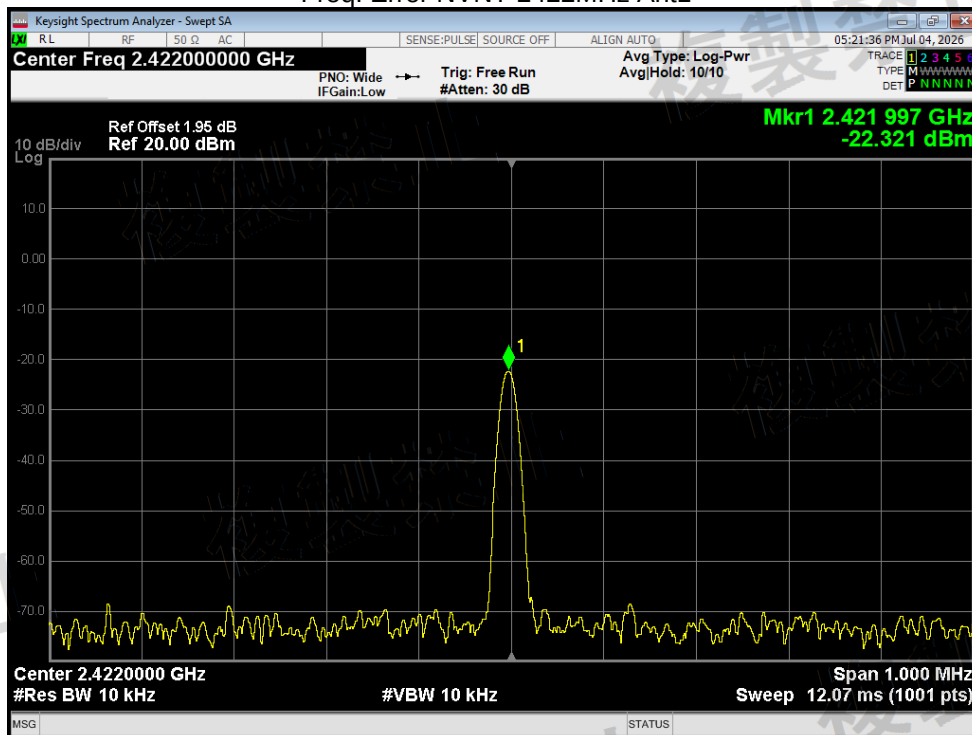
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Freq. Error NVNT 2472MHz Ant1

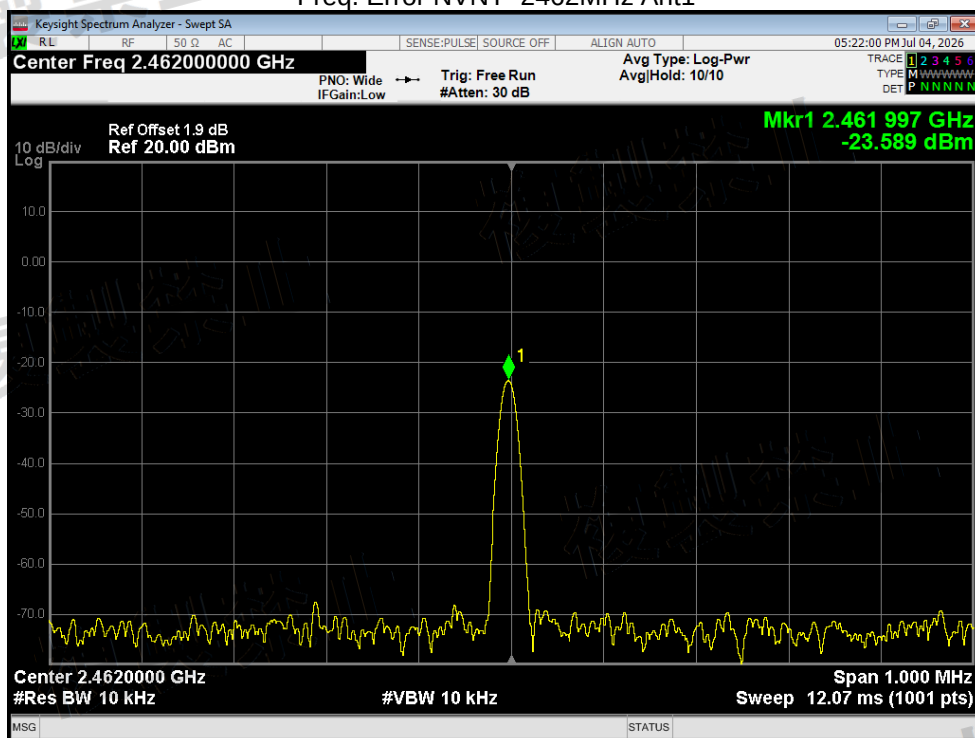


Freq. Error NVNT 2422MHz Ant1





Freq. Error NVNT 2462MHz Ant1

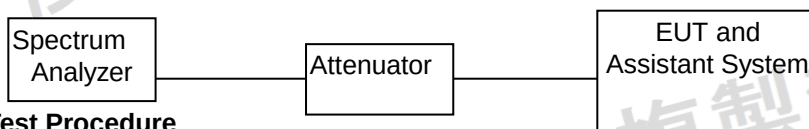


4.2 Antenna power and Antenna Power Tolerance & E.I.R.P

4.2.1 Limit

Type	Limit
OFDM OBW<26MHz	10mW/MHz or less
OFDM OBW 26-40MHz	5mW/MHz or less
Tolerance	+20%
E.I.R.P	12.14dBm/MHz(OFDM OBW<26MHz)
	9.13dBm/MHz (OFDM OBW 26-40MHz)

4.2.2 Block diagram of test setup



4.2.3 Test Procedure

(1) Step 1

Connect the UUT to the spectrum analyzer and use the following settings:

Center Frequency: The center frequency of the UUT test channel

RBW: 1MHz

VBW: 1MHz

Span: Wide enough to cover the total power envelope of the signal of the UUT

Detector: Peak

Trance Mode: Max Hold

Find the Peak value for the power envelope and record the frequency.

(2)Step 2

Change the spectrum analyzer and use the following settings:

Center Frequency: Record frequency of step 1.

RBW: 1MHz

VBW: 1MHz

Span: 0Hz

Sweep time: enough to capture the signal burst.

Detector: RMS

Trace Mode: Single

Capture the burst signal power and record it.

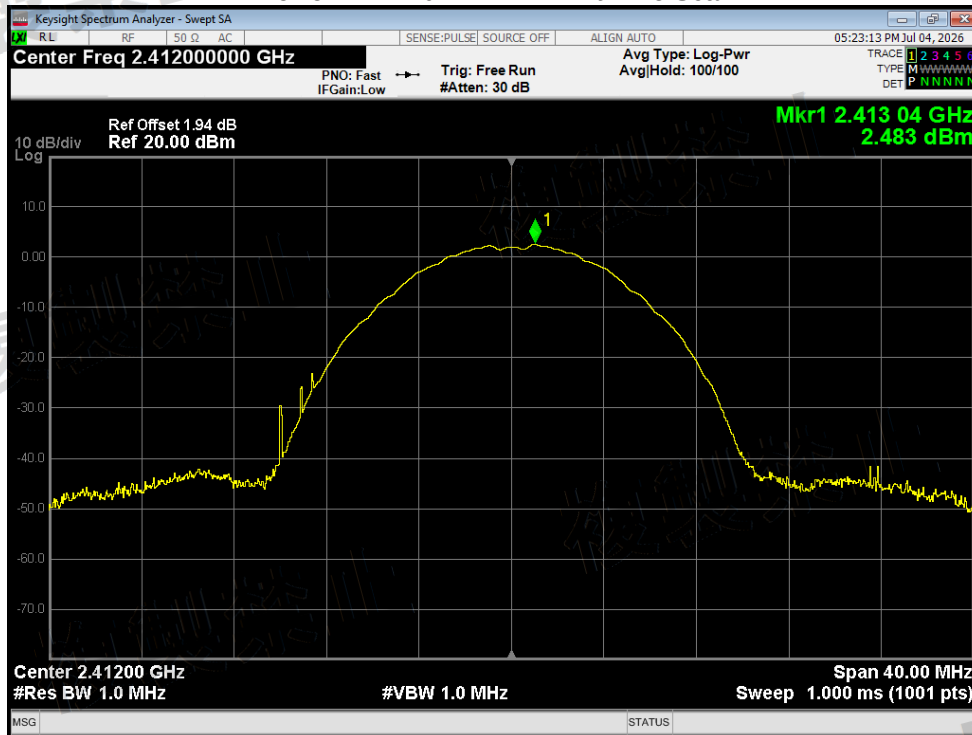
4.2.4 Test Result

Mode	Frequency (MHz)	Conducted RF output power density (dBm/MHz)	Conducted RF output power density (mW/MHz)	Power Limit (mW/MHz)	Antenna power tolerance (%)	Limit of power tolerance (%)
802.11b	2412	4.17	2.61	10.00	-13.00	+20%
	2442	4.90	3.09	10.00	3.00	
	2472	4.32	2.71	10.00	-9.67	
802.11g	2412	0.45	1.11	10.00	-63.00	
	2442	0.19	1.05	10.00	-65.00	
	2472	-0.41	0.91	10.00	-69.67	
802.11n20	2412	-1.02	0.79	10.00	-73.67	
	2442	0.76	1.19	10.00	-60.33	
	2472	0.29	1.07	10.00	-64.33	
802.11n40	2422	-0.20	0.96	5.00	-4.00	
	2442	-0.81	0.83	5.00	-17.00	
	2462	-2.39	0.58	5.00	-42.00	
Result	Pass The declared output power: for 802.11b/g/n20 mode is 3mW/MHz, for 802.11n40 mode is 1mW/MHz					

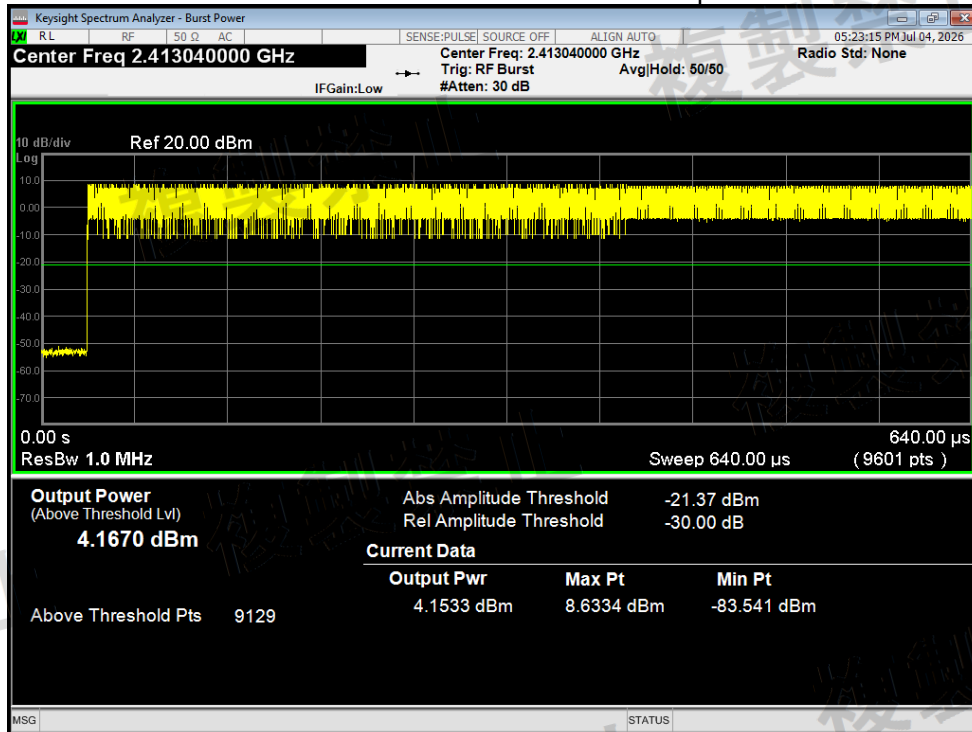
E.I.R.P

Mode	Frequency (MHz)	Output power (dBm/MHz)	Antenna Gain (dBi)	E.I.R.P (dBm/MHz)	Limit (dBm/MHz)
802.11b	2412	4.17	3.55	7.72	12.14
	2442	4.90	3.55	8.45	12.14
	2472	4.32	3.55	7.87	12.14
802.11g	2412	0.45	3.55	4.00	12.14
	2442	0.19	3.55	3.74	12.14
	2472	-0.41	3.55	3.14	12.14
802.11n20	2412	-1.02	3.55	2.53	12.14
	2442	0.76	3.55	4.31	12.14
	2472	0.29	3.55	3.84	12.14
802.11n40	2422	-0.20	3.55	3.35	9.13
	2442	-0.81	3.55	2.74	9.13
	2462	-2.39	3.55	1.16	9.13
Result	Pass				

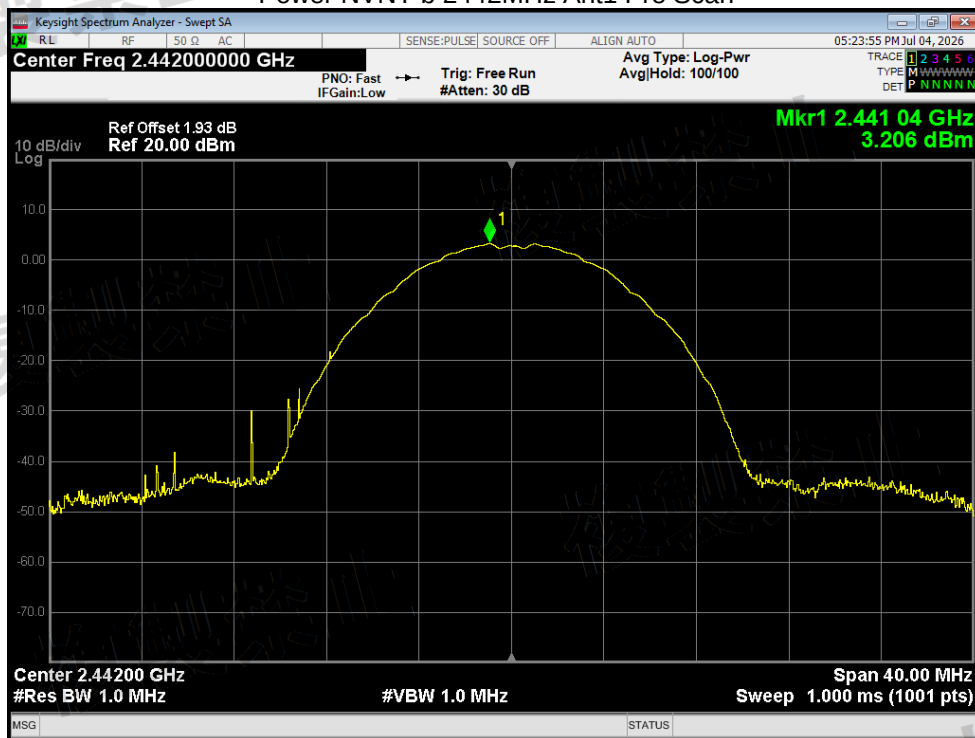
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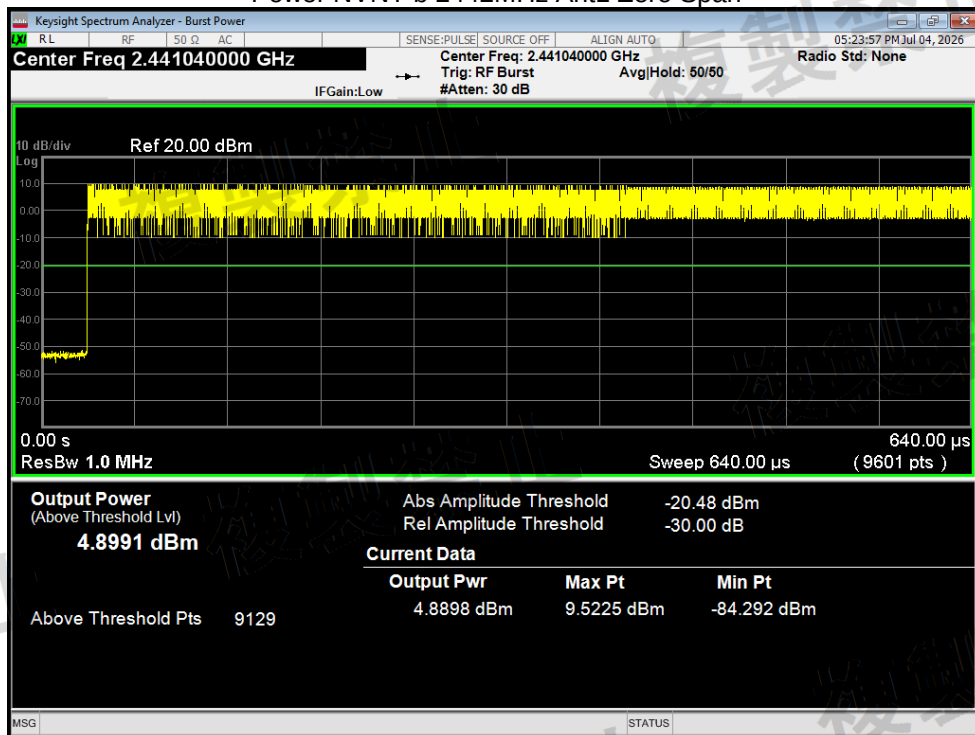
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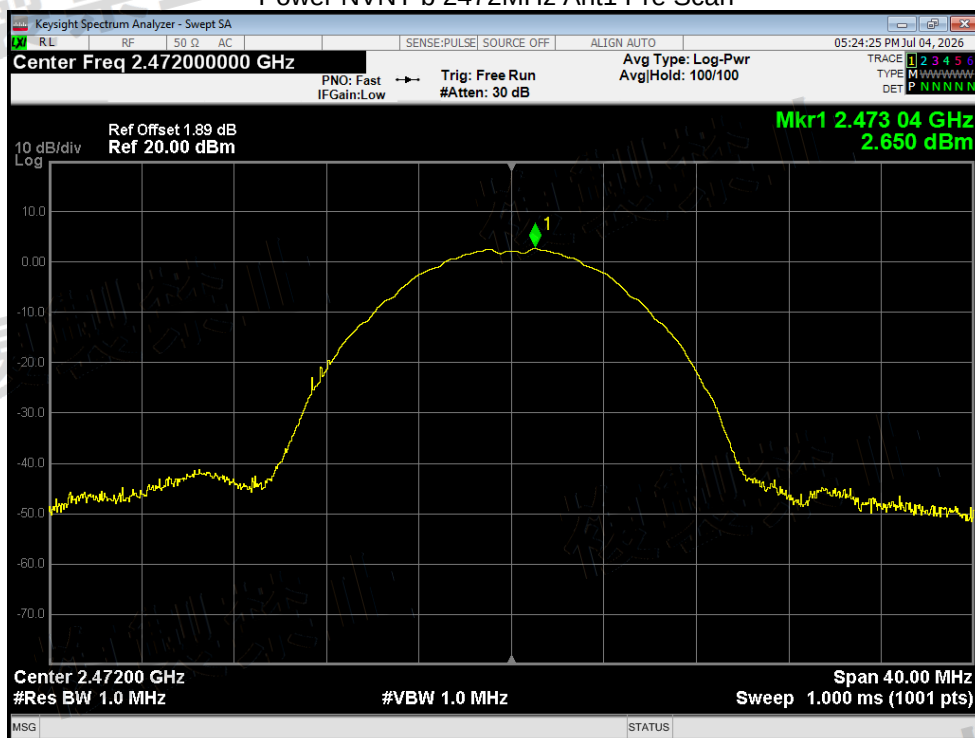
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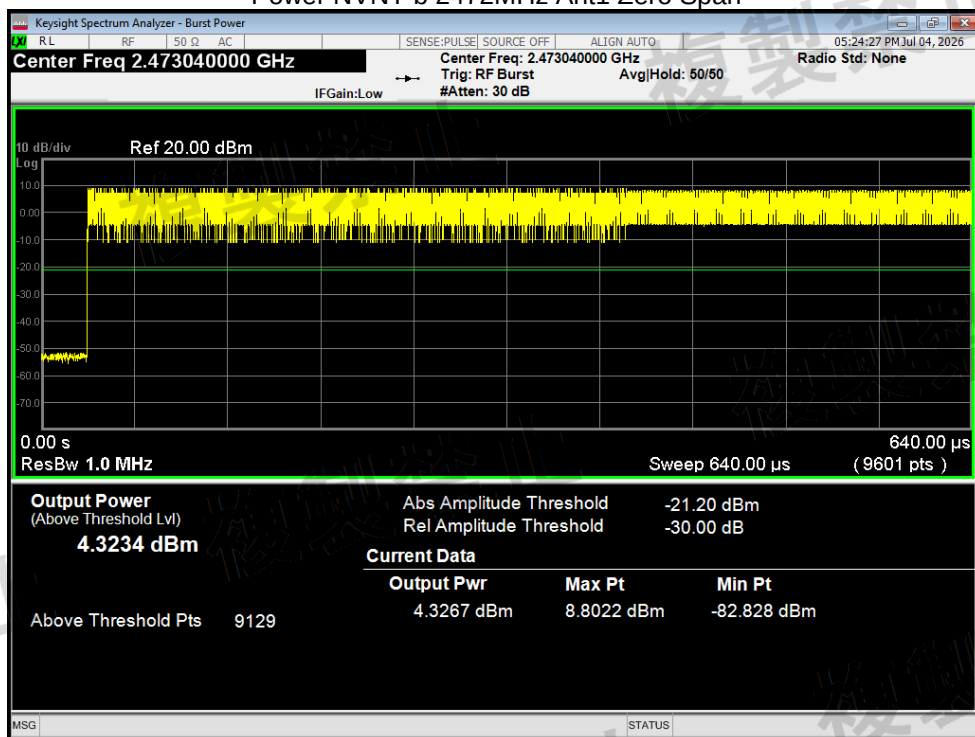
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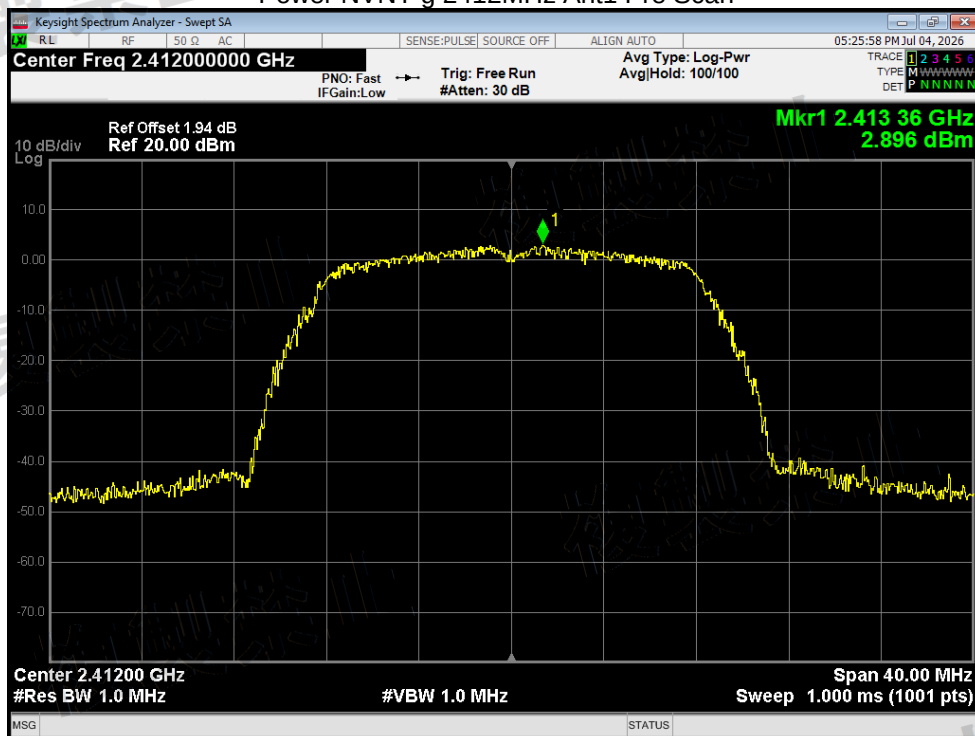
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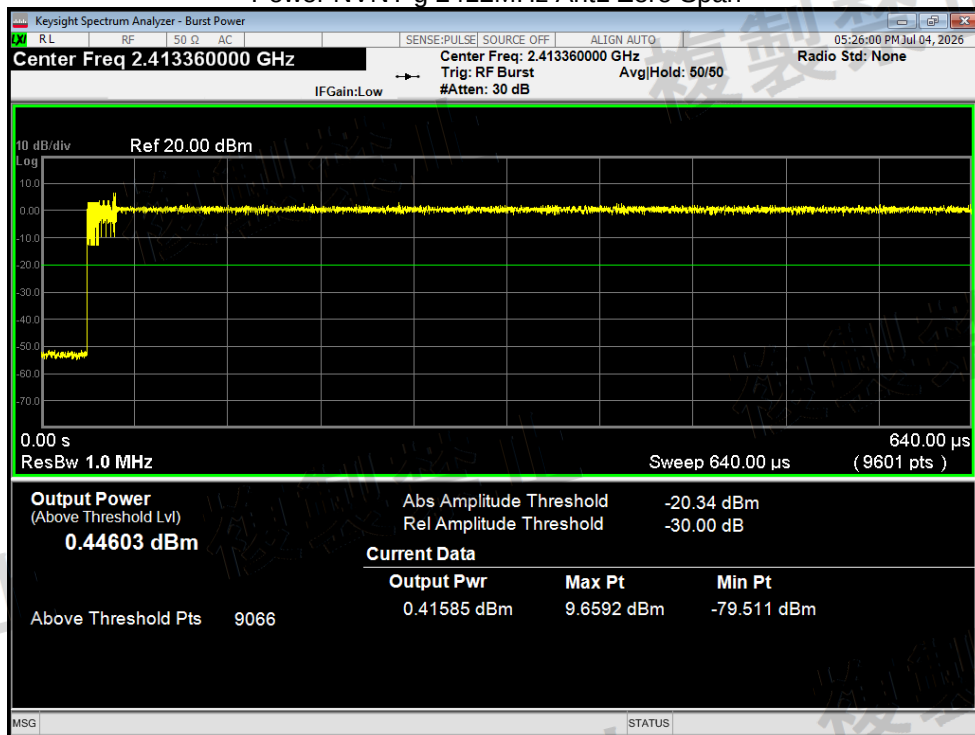
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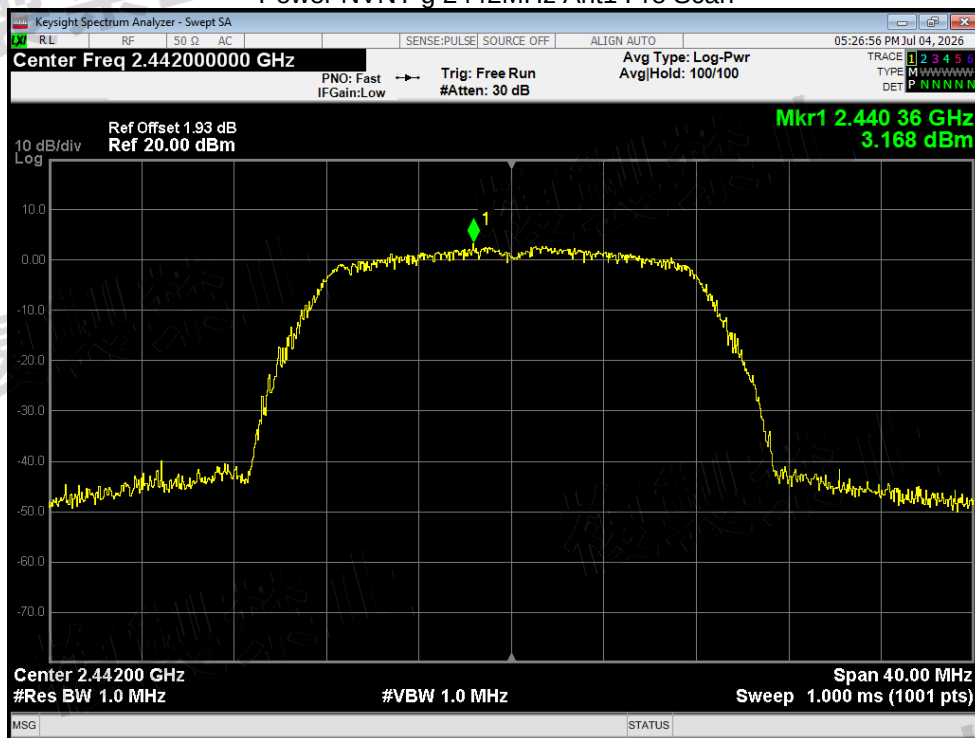
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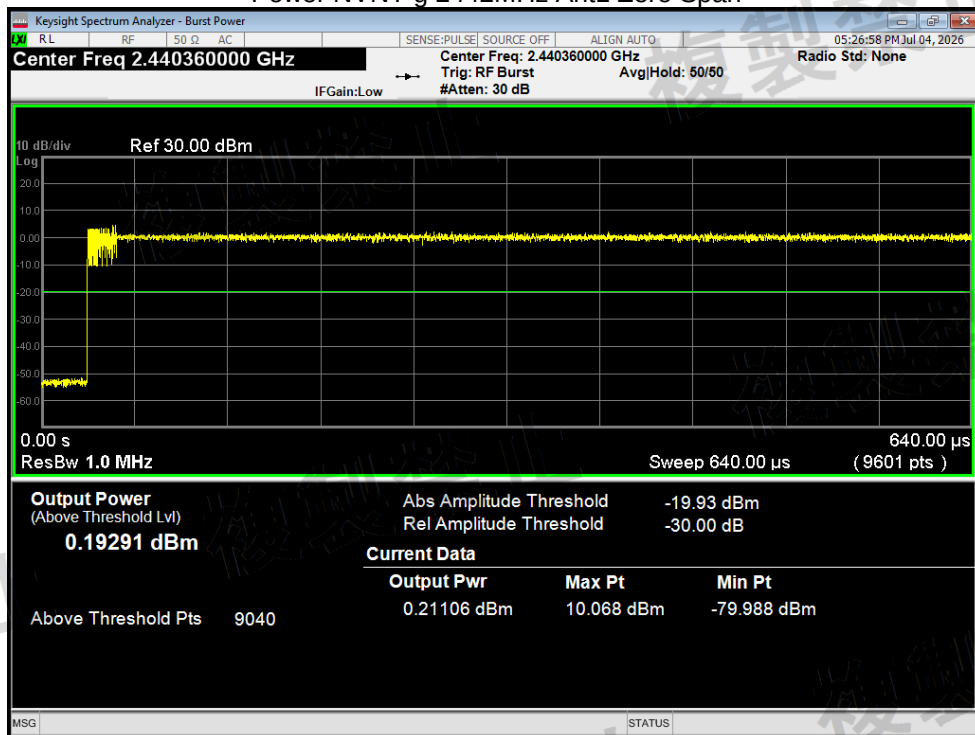
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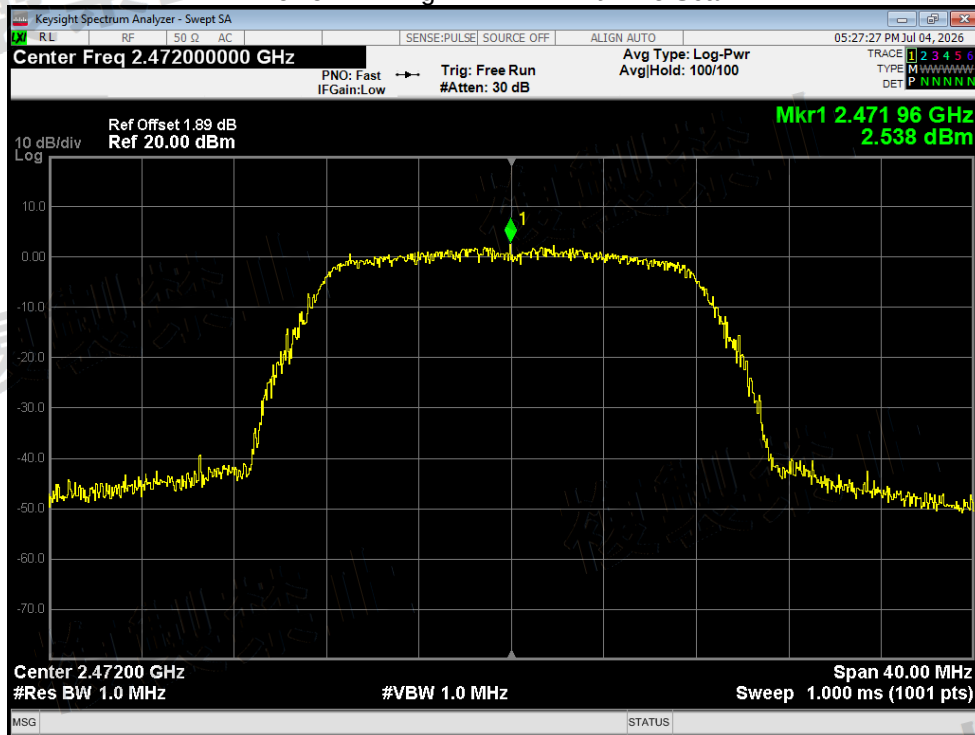
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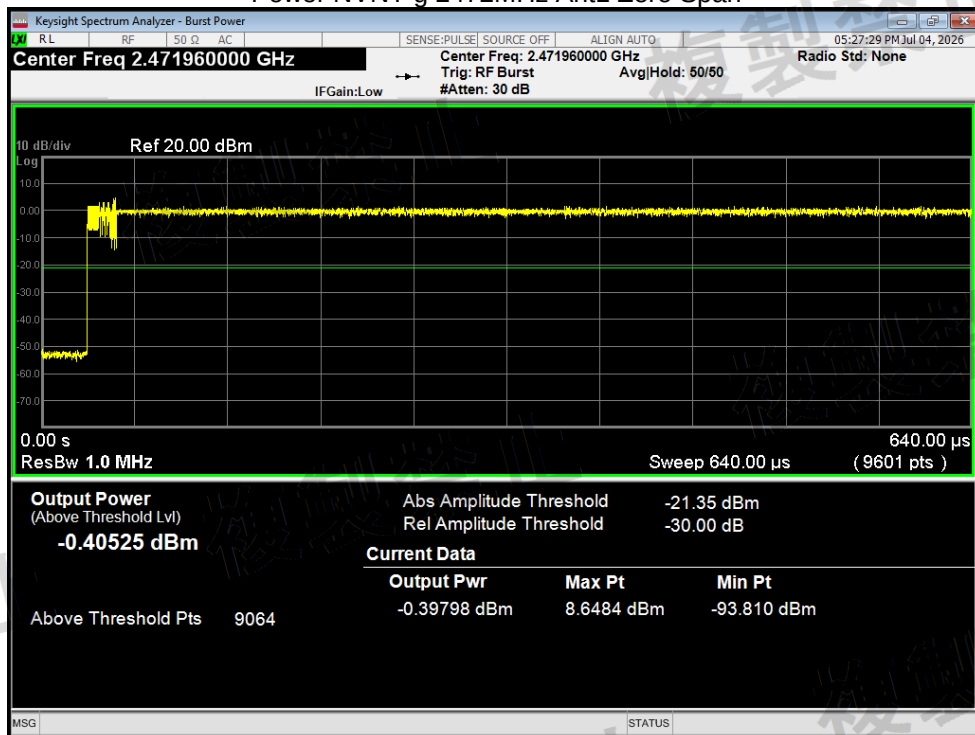
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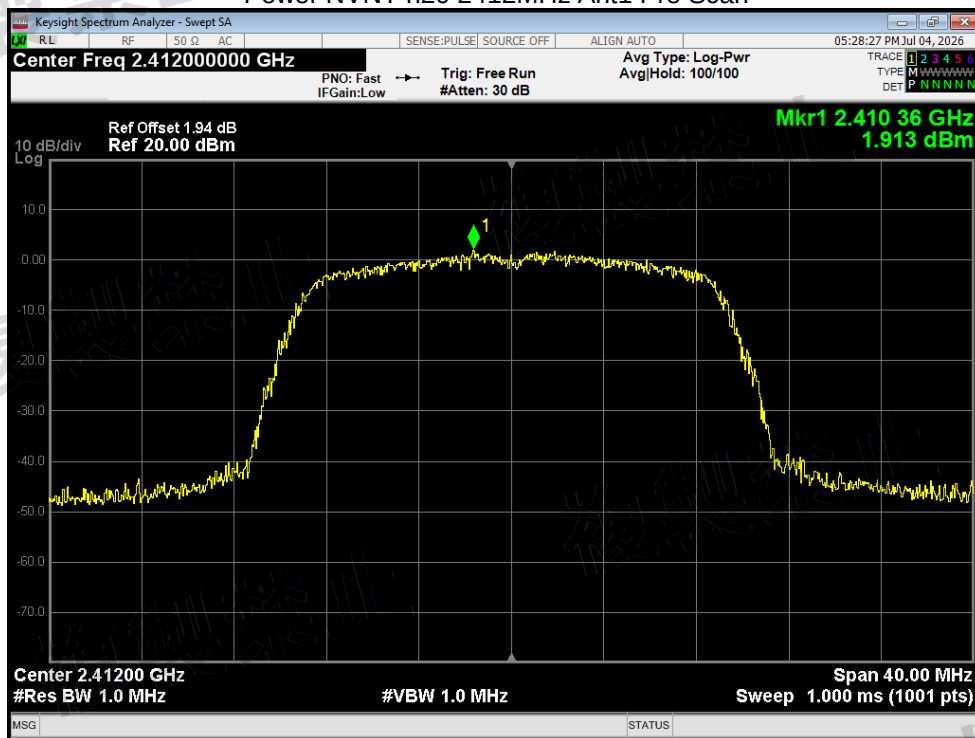


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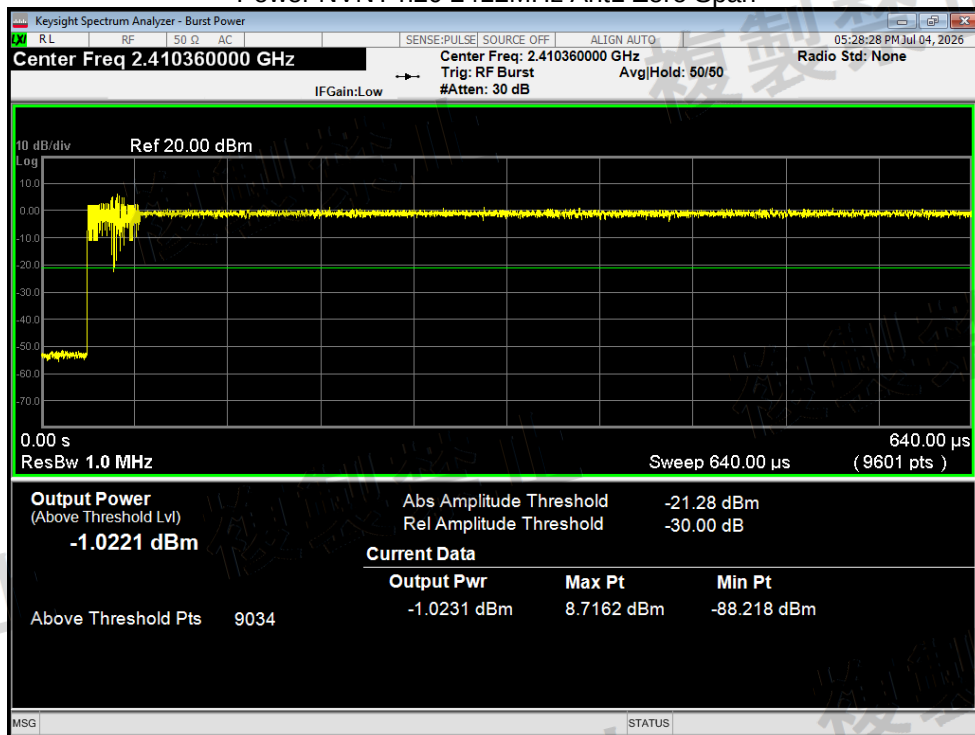




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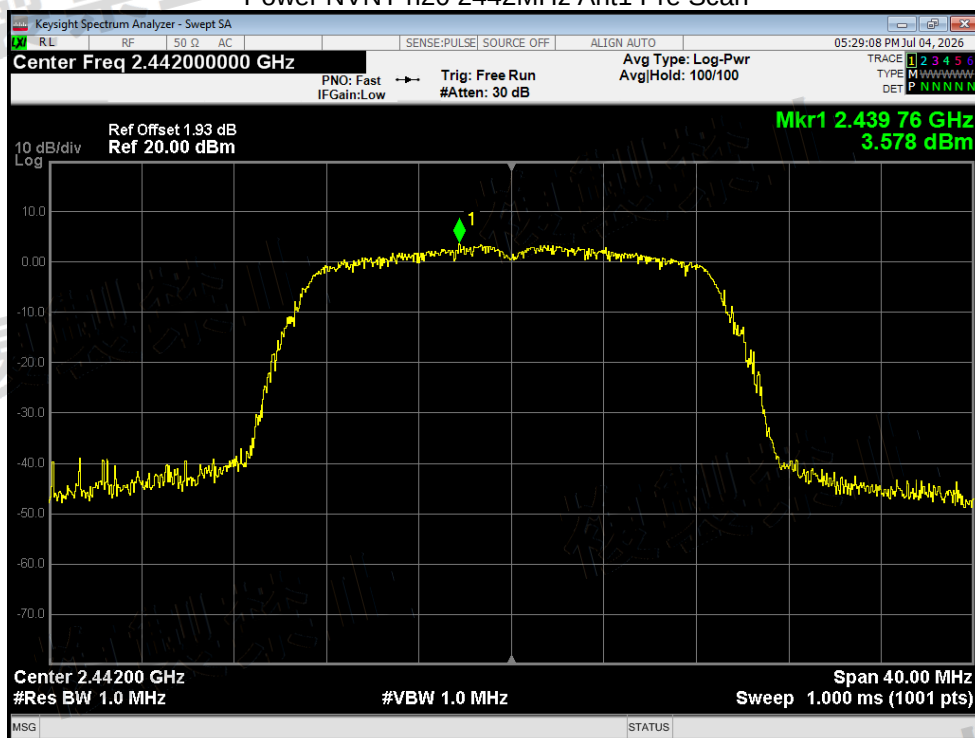


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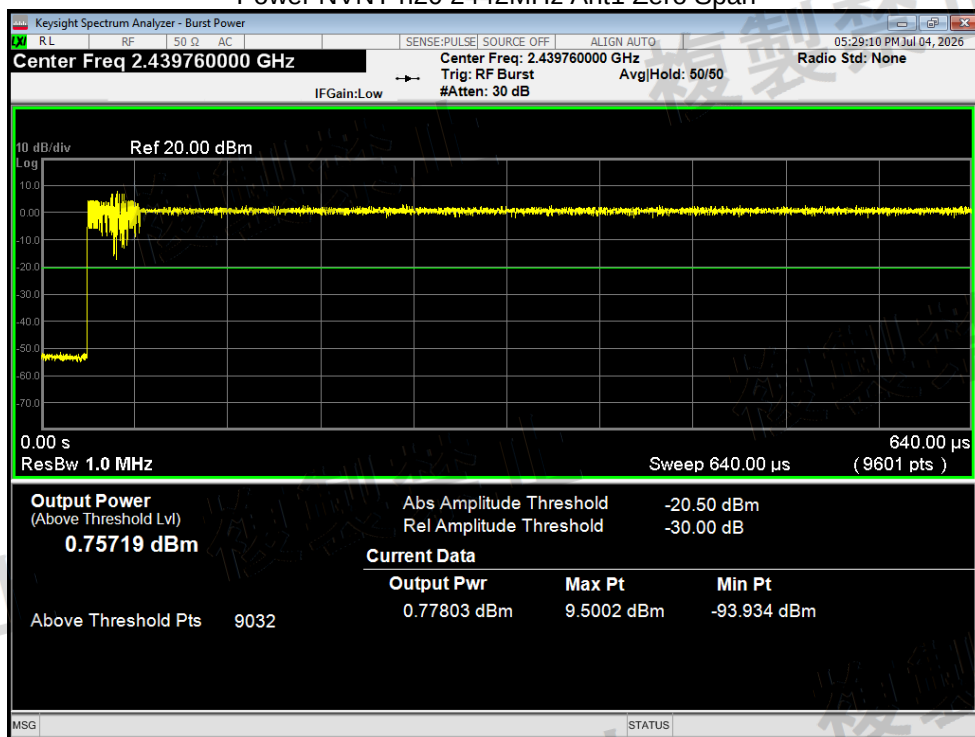




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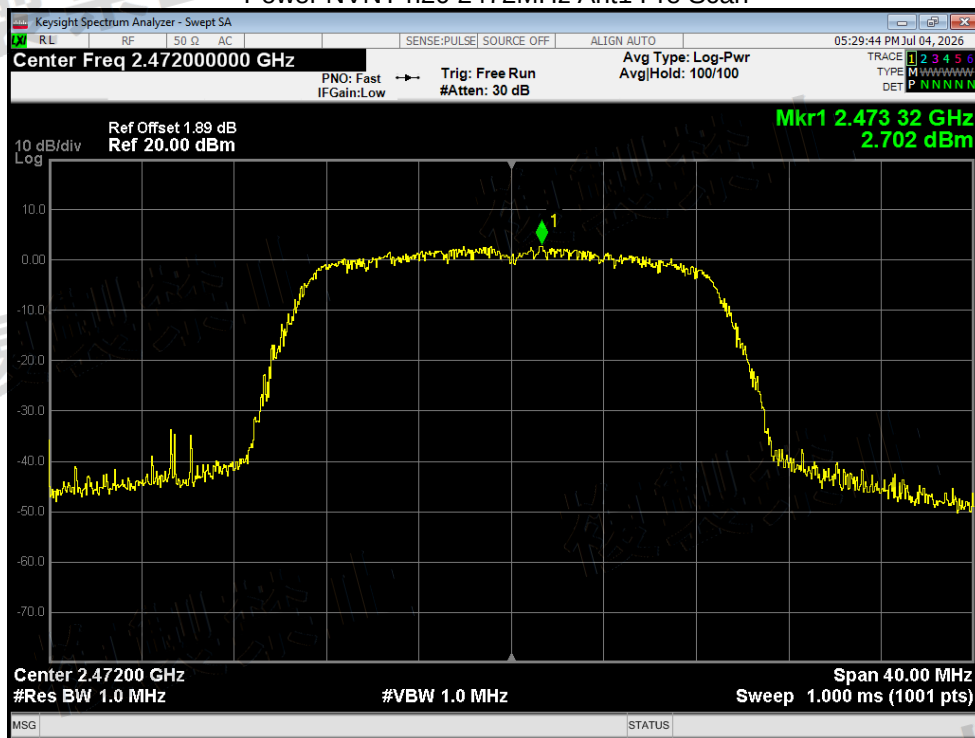


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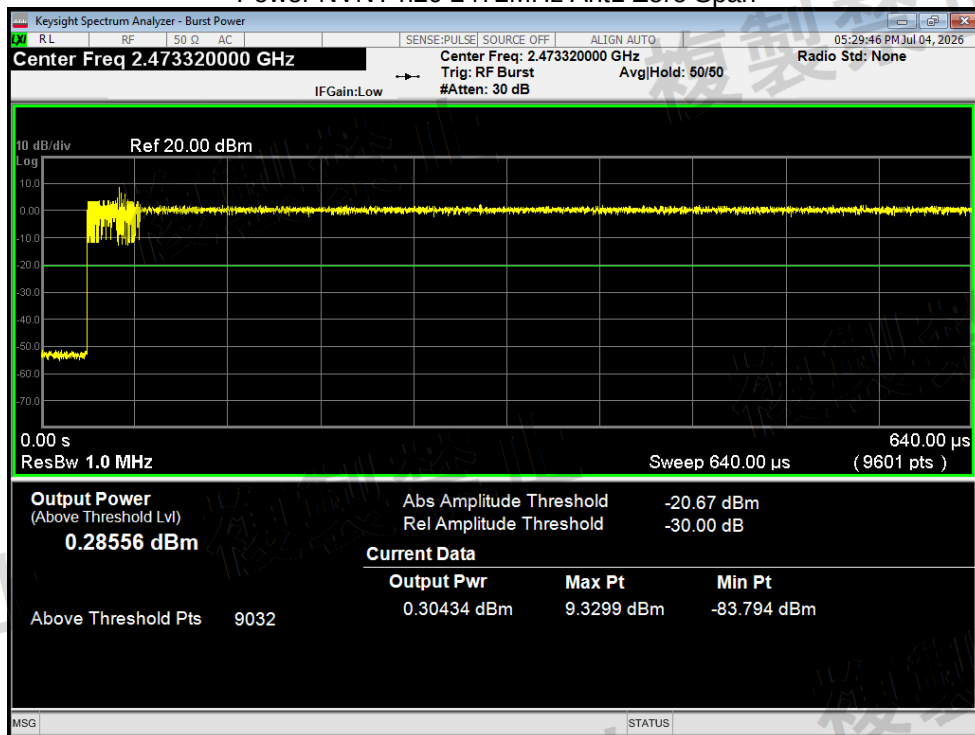




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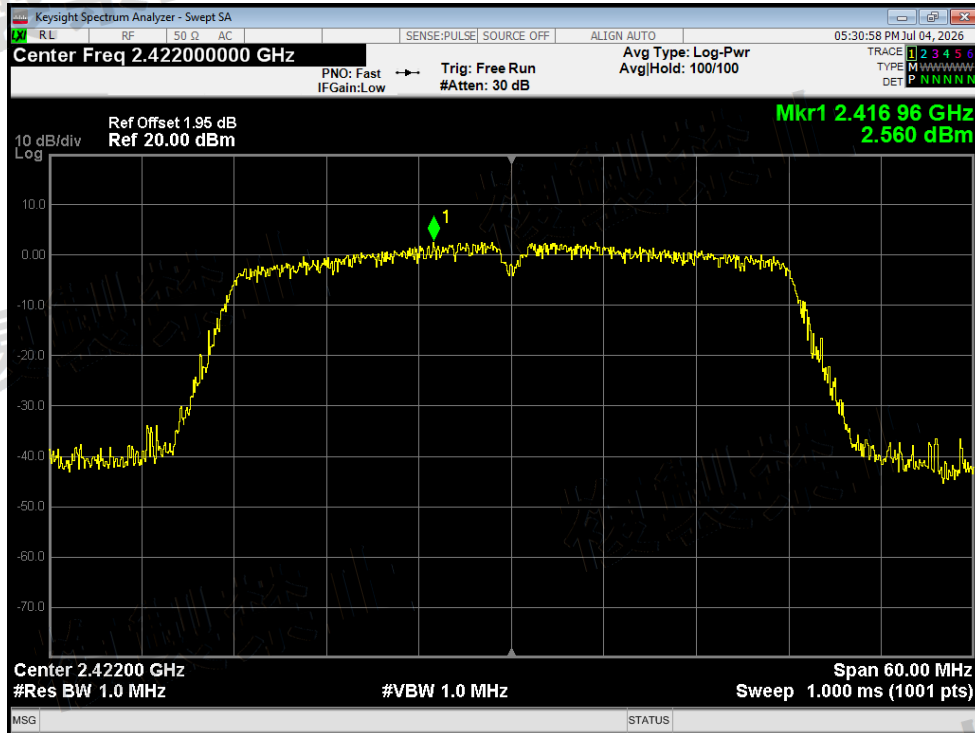


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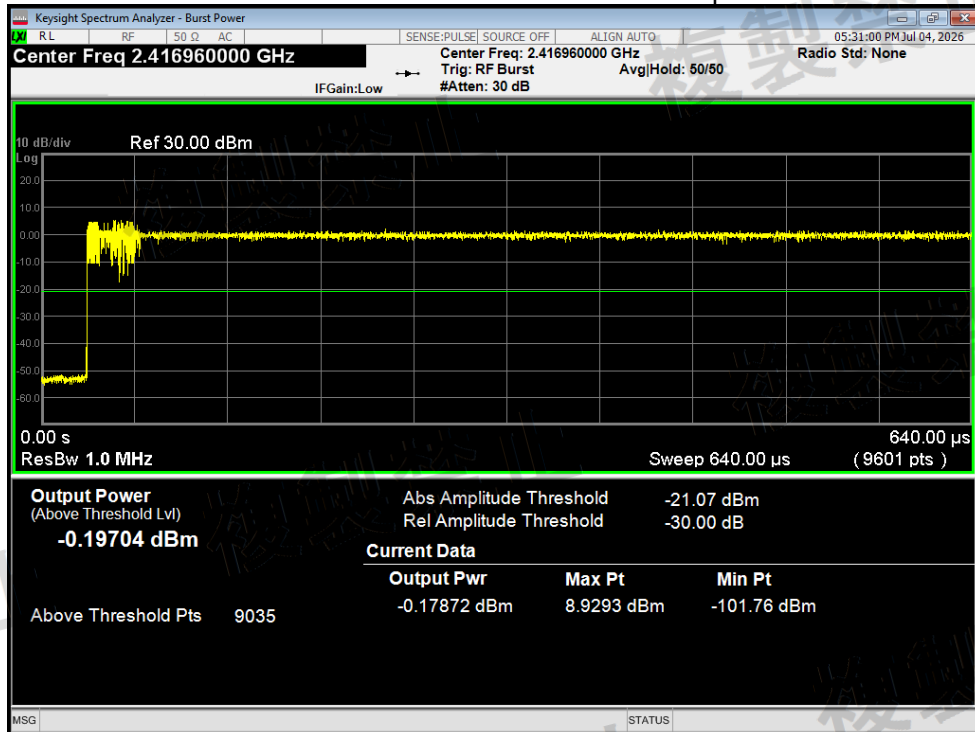




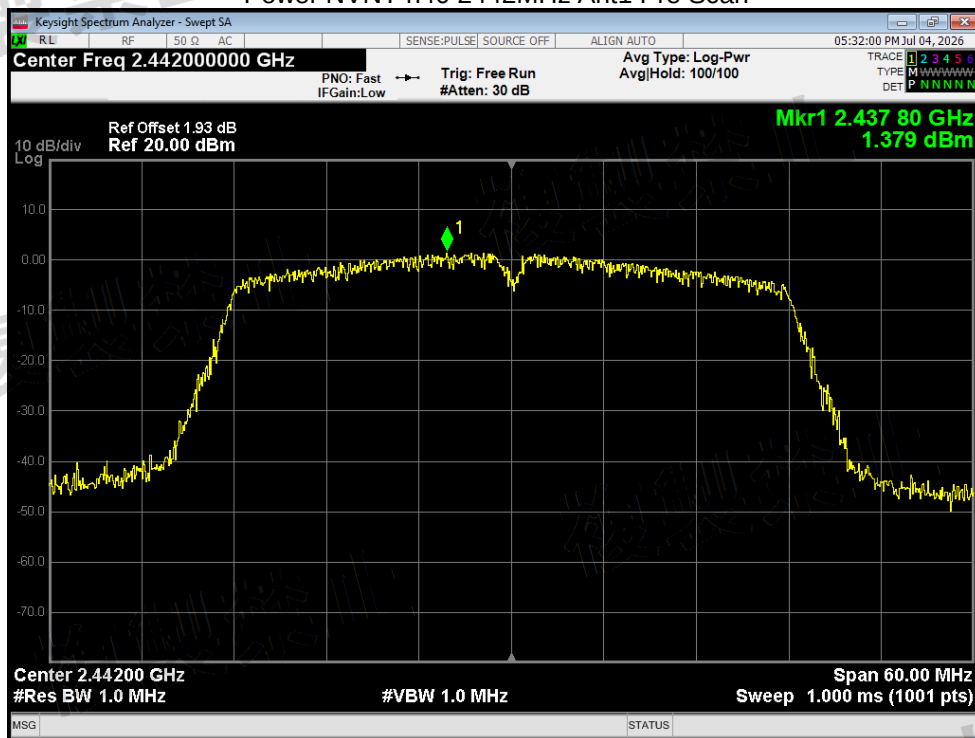
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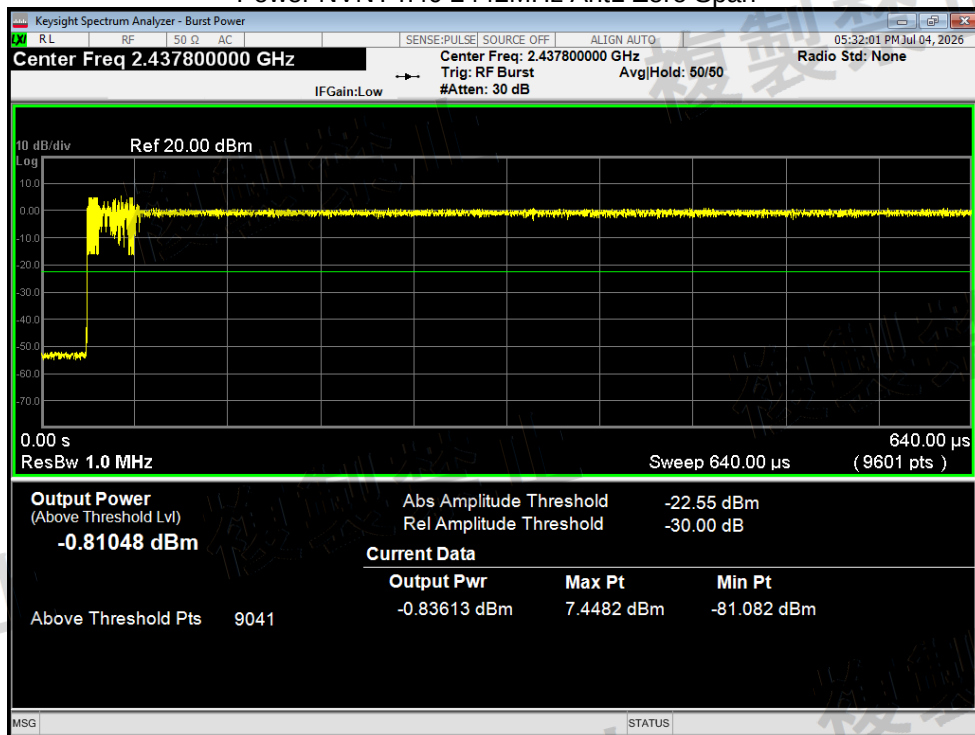
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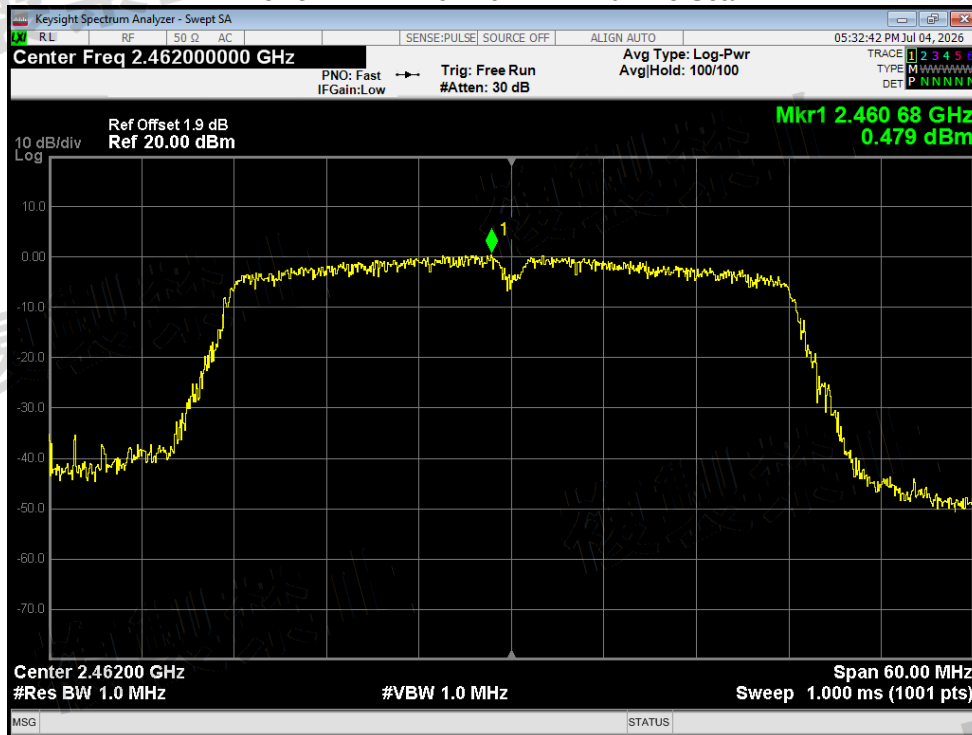


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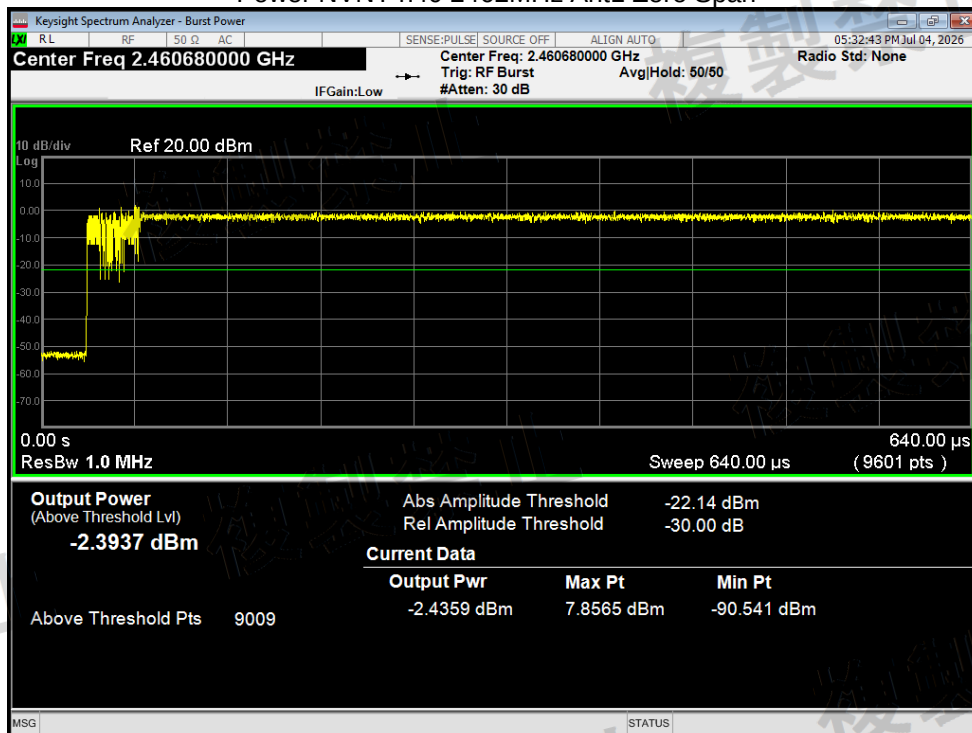




Power NVNT n40 2462MHz Ant1 Pre Scan



Power NVNT n40 2462MHz Ant1 Zero Span



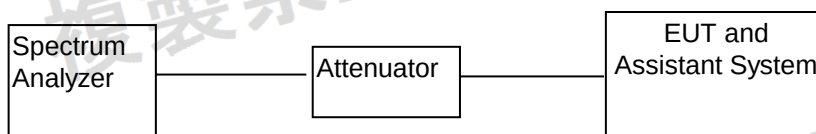
4.3 Occupied Frequency Bandwidth

4.3.1 Limits

Item	Limits
Occupied Band Width:	FH : Within 83.5MHz OFDM1,DS : Within 26MHz; OFDM2(802.11n40):26-40MHz

Permissible value for occupied bandwidth using the FH system, a hybrid system combining DS and FH systems, or a hybrid system combining FH and OFDM systems shall be 83.5 MHz or less, while necessary bandwidth (minimum occupied bandwidth sufficient to ensure information transmission of required quality at a required transmission rate for the system used under specified conditions for a given emission type) using a system other than any of the above shall be 26 MHz or less.

4.3.2 Block diagram of test setup



4.3.3 Test Procedures

- (1) Configure EUT and assistant system according clause 2.3 and 4.3
- (2) Set EUT work in test mode as described in clause 2.2
- (3) Connected the EUT's antenna port to the Spectrum Analyzer by suitable attenuator, set the Spectrum Analyzer as below:

Centre Frequency: The centre frequency of the channel under test.

Resolution BW: 300 KHz

Video BW: 300 KHz

Span: Wide enough to cover the complete power envelope of the signal of the EUT.

Detector: Peak.

Trace Mode: Max Hold.

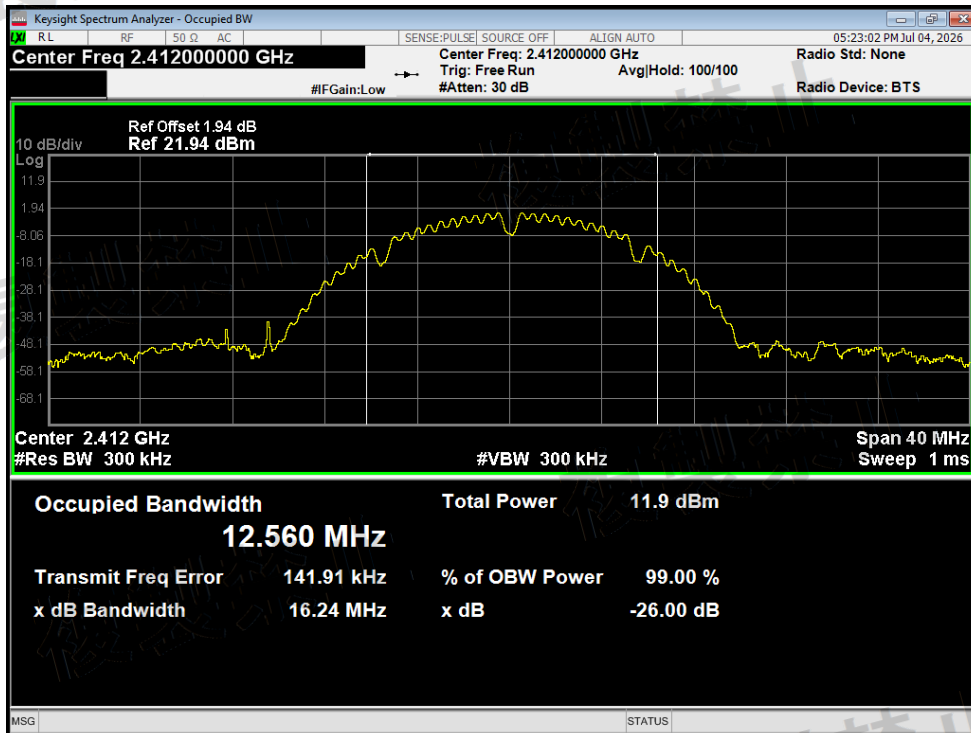
- (4) When the trace is complete, measure the occupied bandwidth (99% bandwidth) with spectrum analyzer's bandwidth measure function.



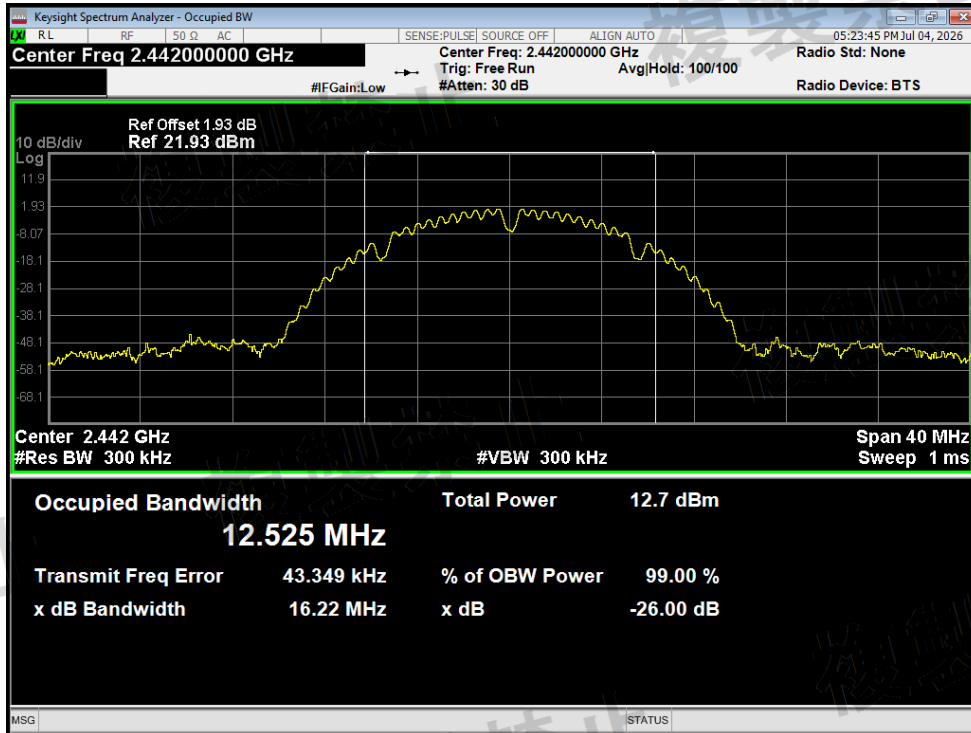
4.3.4 Test Result

Mode	Condition	Frequency(MHz)	Result	Limit
			(MHz)	(MHz)
802.11b	Normal	2412	12.560	≤ 26MHz
		2442	12.525	≤ 26MHz
		2472	12.485	≤ 26MHz
802.11g	Normal	2412	16.477	≤ 26MHz
		2442	16.460	≤ 26MHz
		2472	16.552	≤ 26MHz
802.11n20	Normal	2412	17.648	≤ 26MHz
		2442	17.613	≤ 26MHz
		2472	17.563	≤ 26MHz
802.11n40	Normal	2422	35.935	26-40 MHz
		2442	35.726	26-40 MHz
		2462	35.839	26-40 MHz
Conclusion: PASS				

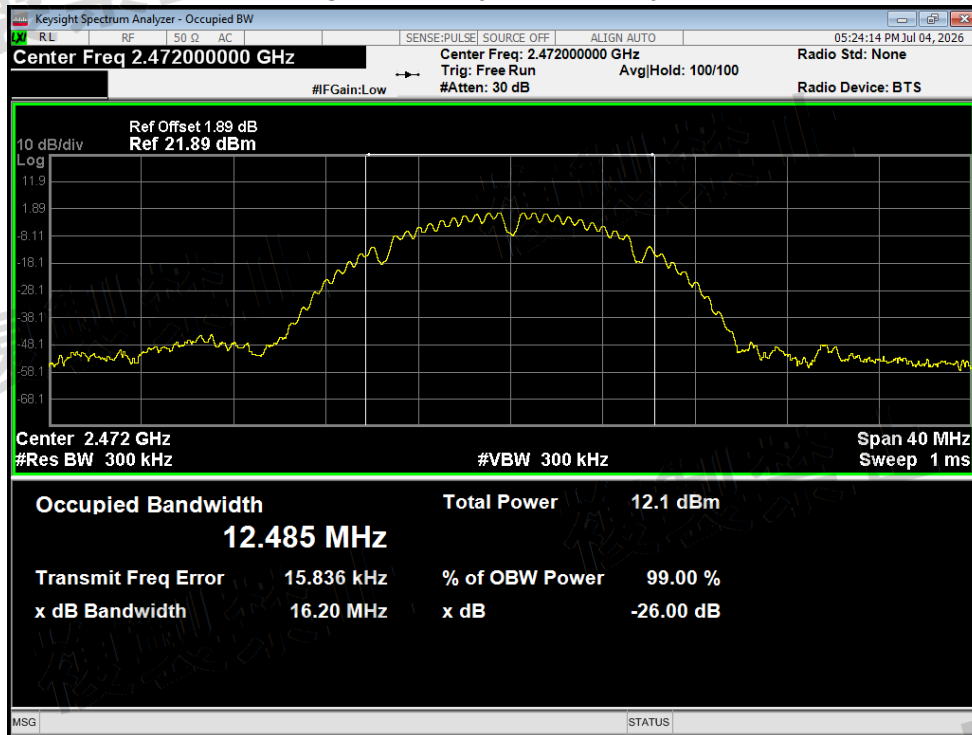
OBW NVNT b 2412MHz Ant1



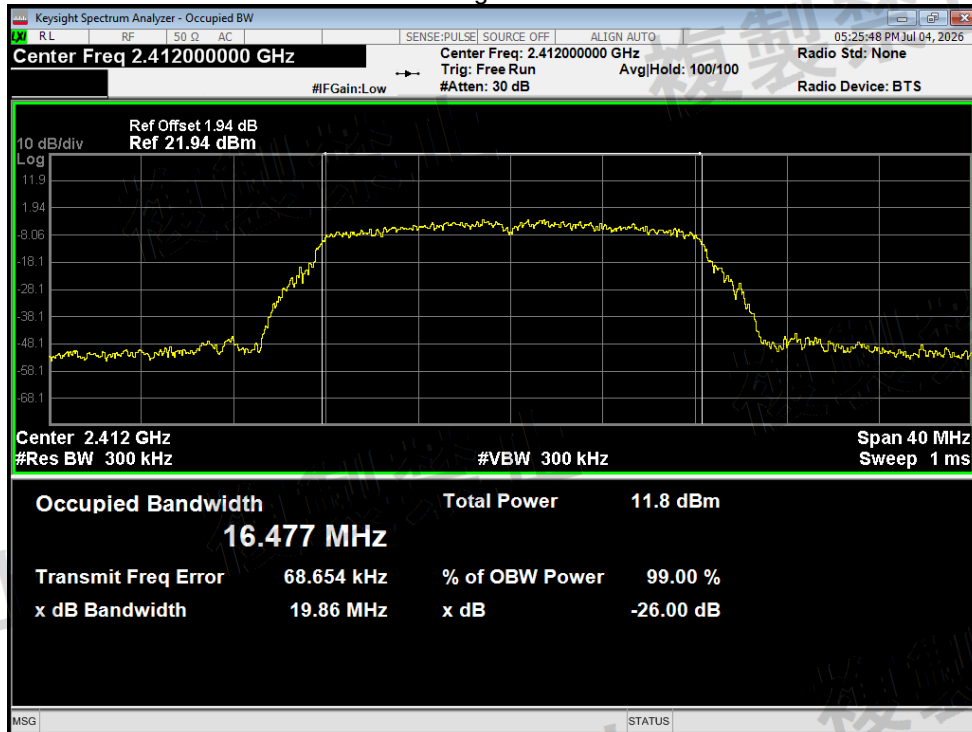
OBW NVNT b 2442MHz Ant1



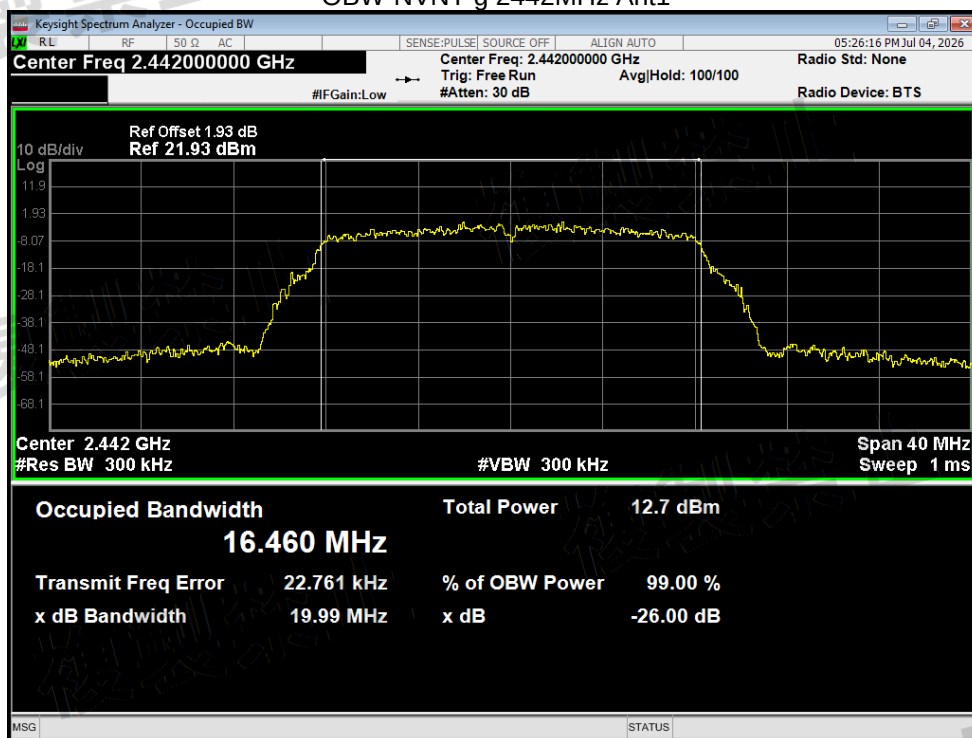
OBW NVNT b 2472MHz Ant1



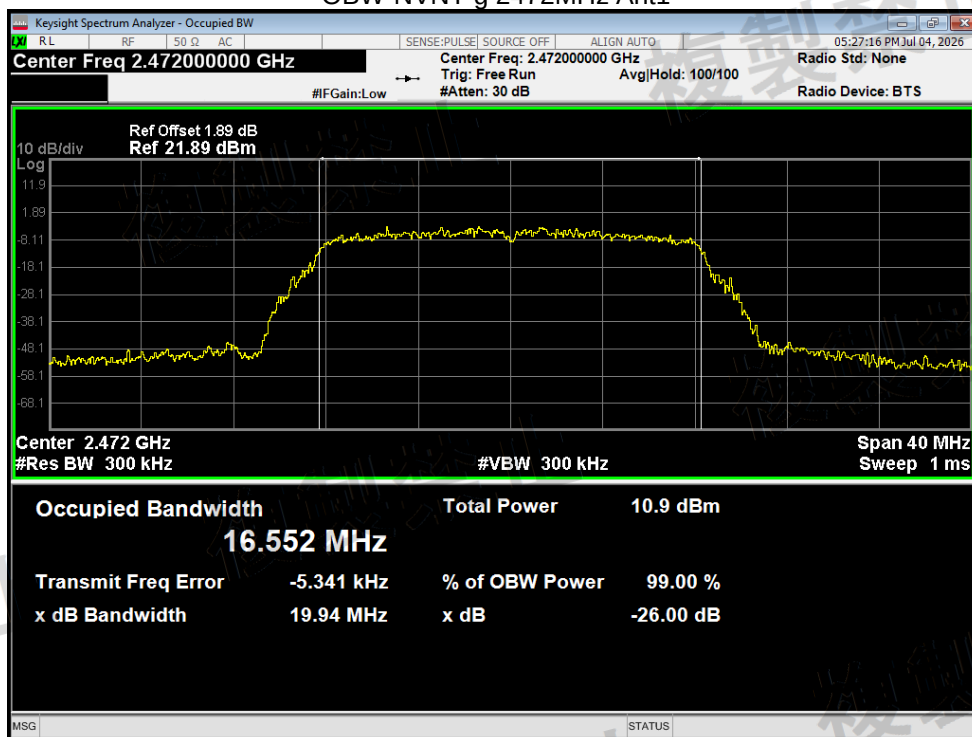
OBW NVNT g 2412MHz Ant1



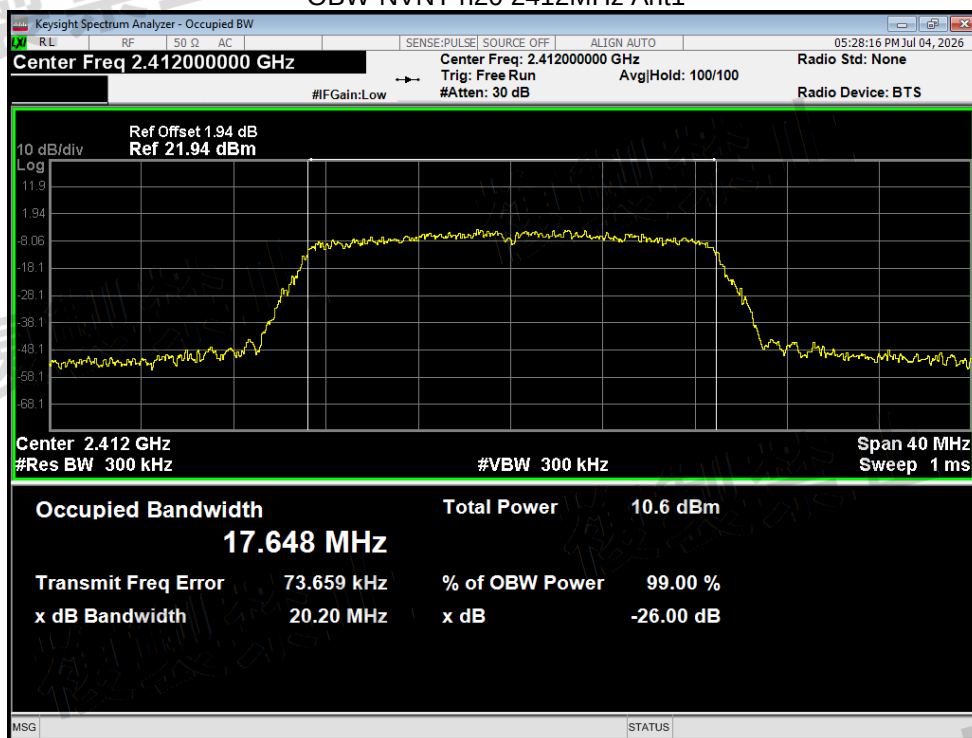
OBW NVNT g 2442MHz Ant1



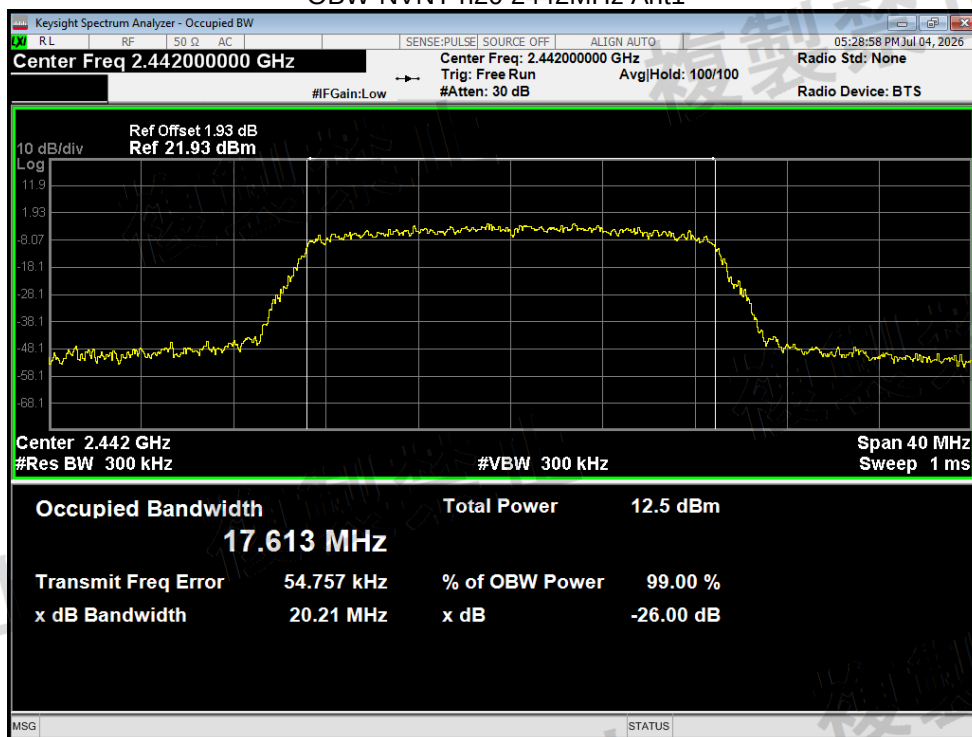
OBW NVNT g 2472MHz Ant1



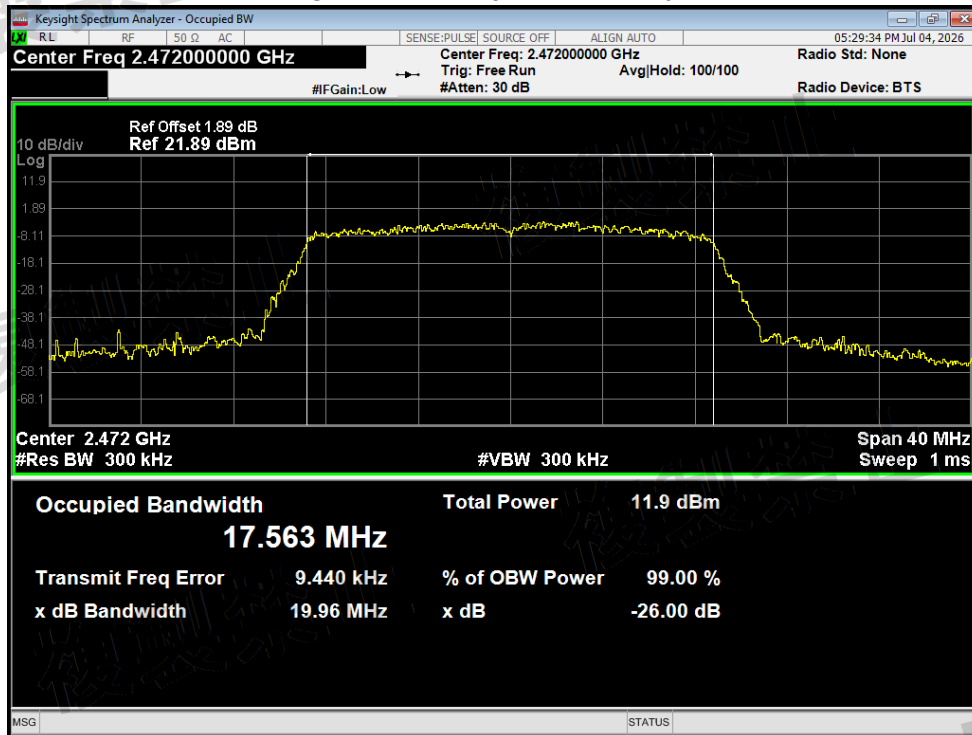
OBW NVNT n20 2412MHz Ant1



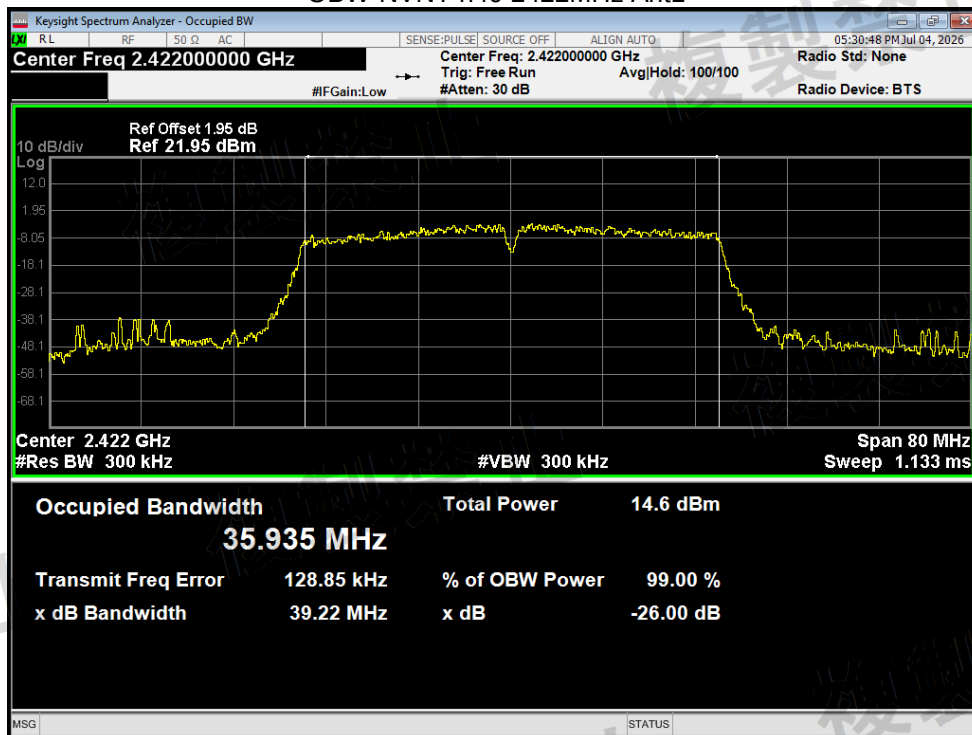
OBW NVNT n20 2442MHz Ant1



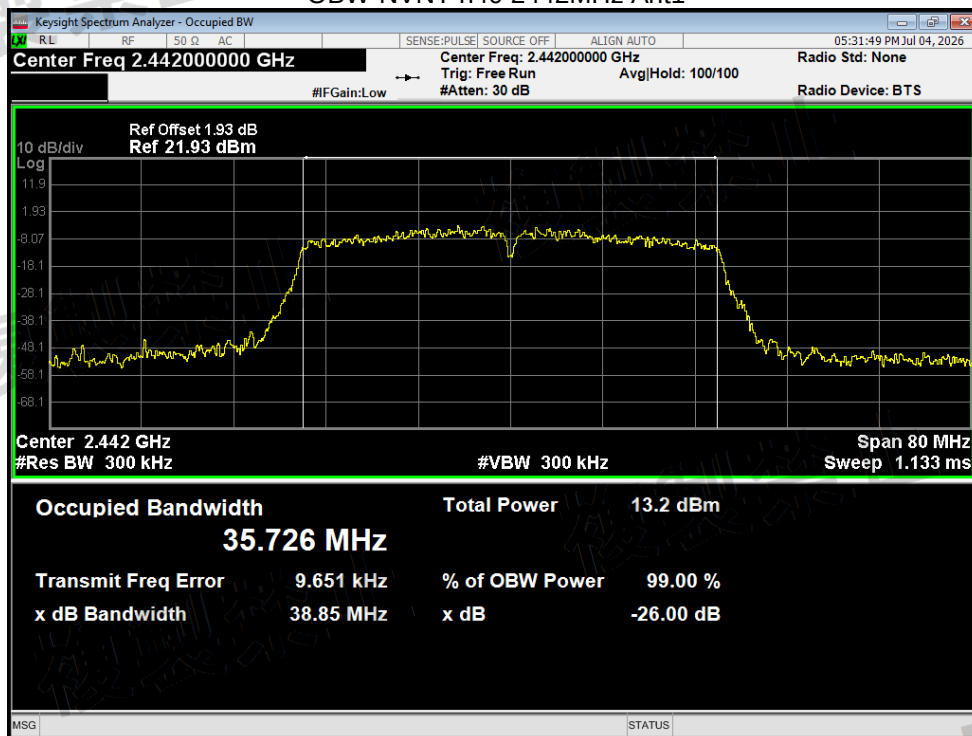
OBW NVNT n20 2472MHz Ant1



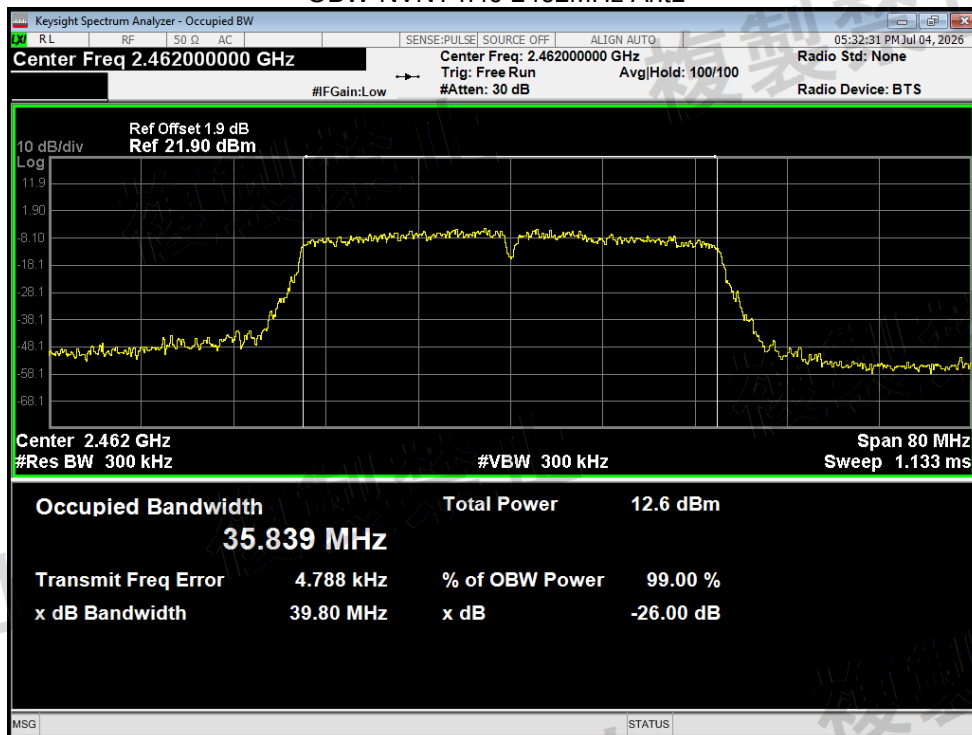
OBW NVNT n40 2422MHz Ant1



OBW NVNT n40 2442MHz Ant1



OBW NVNT n40 2462MHz Ant1



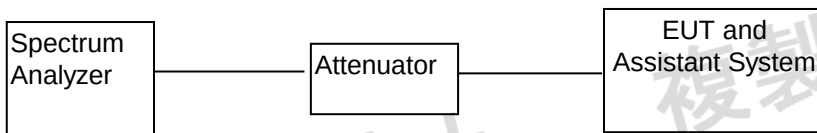
4.4 Unwanted Emission Strength (conducted)

4.4.1 Limits

Permissible mean power of spurious emission of each frequency supplied to a feeder, that is, mean power of spurious emission in the 1 MHz bandwidth at frequency f other than frequency band used shall be as follows:

Unwanted Emission Strength	$\leq 2.5 \mu\text{W}/\text{MHz}$ ($30\text{MHz} \leq f \leq 2387\text{MHz}$)
	$\leq 25 \mu\text{W}/\text{MHz}$ ($2387\text{MHz} < f \leq 2400\text{MHz}$)
	$\leq 25 \mu\text{W}/\text{MHz}$ ($2483.5\text{MHz} \leq f < 2496.5\text{MHz}$)
	$\leq 2.5 \mu\text{W}/\text{MHz}$ ($2496.5\text{MHz} \leq f < 12500\text{MHz}$)
Note: 30MHz-2387 MHz: $2.5 \mu\text{W}$ (-26 dBm)/MHz or less. When 30M~1GHz, RBW is set to 100kHz, the limit should be reduced by $10\log(1\text{M}/100\text{k})$ accordingly. Then $\text{limit} = -26\text{dBm} - 10\log(1\text{M}/100\text{k}) = -36\text{dBm}$	

4.4.2 Block Diagram of Test Setup



4.4.3 Test Procedures

- (1) Configure EUT and assistant system according clause 2.3 and 4.4
- (2) Set EUT work in test mode as described in clause 2.2
- (3) Connected the EUT's antenna port to the Spectrum Analyzer by suitable attenuator, set the Spectrum Analyzer as below:
 - Resolution BW: Below 1GHz RB:100KHz
 - Above 1GHz RB:1MHz
 - Video BW: Below 1GHz RB:100KHz
 - Above 1GHz RB:1MHz
 - Detector: Peak.
 - Trace Mode: Max Hold.
- (4) All the emissions from 30MHz to 13GHz were measured and record.



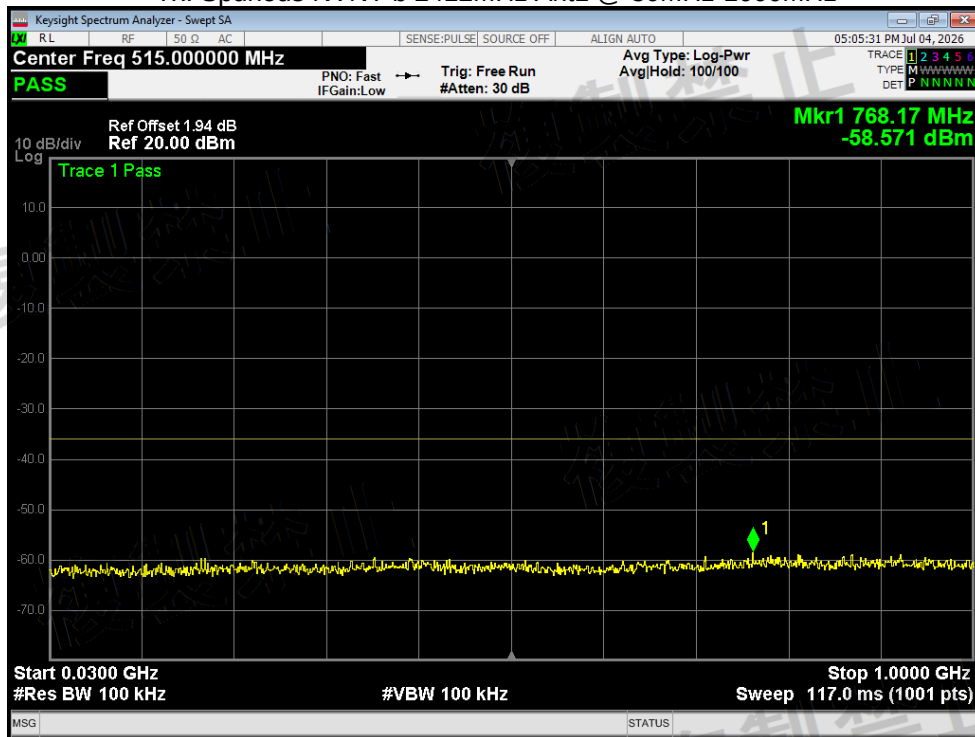
Condition	Mode	Frequen cy (MHz)	Range (MHz)	Emission Frequency (MHz)	Max Value (dBm)	Max Value (μ W/MHz)	Limit (μ W/MHz)	Verdict
NVNT	b	2412	30-1000	768.17	-58.571	0.014	2.5	Pass
NVNT	b	2412	1000-2387	2216.399	-47.079	0.020	2.5	Pass
NVNT	b	2412	2387-2400	2395.684	-47.143	0.019	25	Pass
NVNT	b	2412	2483.5-2496.5	2491.131	-46.799	0.021	25	Pass
NVNT	b	2412	2496.5-13000	5836.613	-46.311	0.023	2.5	Pass
NVNT	b	2442	30-1000	892.33	-57.85	0.016	2.5	Pass
NVNT	b	2442	1000-2387	2277.427	-47.558	0.018	2.5	Pass
NVNT	b	2442	2387-2400	2393.981	-47.129	0.019	25	Pass
NVNT	b	2442	2483.5-2496.5	2486.386	-46.243	0.024	25	Pass
NVNT	b	2442	2496.5-13000	12842.448	-46.064	0.025	2.5	Pass
NVNT	b	2472	30-1000	406.36	-66.065	0.002	2.5	Pass
NVNT	b	2472	1000-2387	2382.839	-55.522	0.003	2.5	Pass
NVNT	b	2472	2387-2400	2387.754	-54.941	0.003	25	Pass
NVNT	b	2472	2483.5-2496.5	2484.501	-54.605	0.003	25	Pass
NVNT	b	2472	2496.5-13000	12863.455	-54.219	0.004	2.5	Pass
NVNT	g	2412	30-1000	910.76	-58.664	0.014	2.5	Pass
NVNT	g	2412	1000-2387	2202.529	-47.087	0.020	2.5	Pass
NVNT	g	2412	2387-2400	2388.274	-46.802	0.021	25	Pass
NVNT	g	2412	2483.5-2496.5	2491.235	-47.186	0.019	25	Pass
NVNT	g	2412	2496.5-13000	2633.045	-46.027	0.025	2.5	Pass
NVNT	g	2442	30-1000	987.39	-58.451	0.014	2.5	Pass
NVNT	g	2442	1000-2387	2036.089	-46.969	0.020	2.5	Pass
NVNT	g	2442	2387-2400	2389.626	-47.686	0.017	25	Pass
NVNT	g	2442	2483.5-2496.5	2491.365	-47.075	0.020	25	Pass
NVNT	g	2442	2496.5-13000	12905.468	-46.102	0.025	2.5	Pass
NVNT	g	2472	30-1000	825.4	-58.349	0.015	2.5	Pass
NVNT	g	2472	1000-2387	2335.681	-47.663	0.017	2.5	Pass
NVNT	g	2472	2387-2400	2389.314	-47.486	0.018	25	Pass
NVNT	g	2472	2483.5-2496.5	2491.547	-46.35	0.023	25	Pass
NVNT	g	2472	2496.5-13000	13000	-46.18	0.024	2.5	Pass
NVNT	n20	2412	30-1000	426.73	-58.038	0.016	2.5	Pass
NVNT	n20	2412	1000-2387	1950.095	-47.37	0.018	2.5	Pass
NVNT	n20	2412	2387-2400	2389.769	-46.841	0.021	25	Pass
NVNT	n20	2412	2483.5-2496.5	2488.349	-46.943	0.020	25	Pass
NVNT	n20	2412	2496.5-13000	12926.475	-45.693	0.027	2.5	Pass
NVNT	n20	2442	30-1000	905.91	-58.404	0.014	2.5	Pass
NVNT	n20	2442	1000-2387	2242.752	-47.053	0.020	2.5	Pass
NVNT	n20	2442	2387-2400	2396.958	-47.389	0.018	25	Pass
NVNT	n20	2442	2483.5-2496.5	2495.577	-47.05	0.020	25	Pass
NVNT	n20	2442	2496.5-13000	3158.221	-45.675	0.027	2.5	Pass
NVNT	n20	2472	30-1000	925.31	-58.84	0.013	2.5	Pass
NVNT	n20	2472	1000-2387	2140.114	-47.035	0.020	2.5	Pass
NVNT	n20	2472	2387-2400	2397.387	-47.244	0.019	25	Pass
NVNT	n20	2472	2483.5-2496.5	2492.431	-47.052	0.020	25	Pass



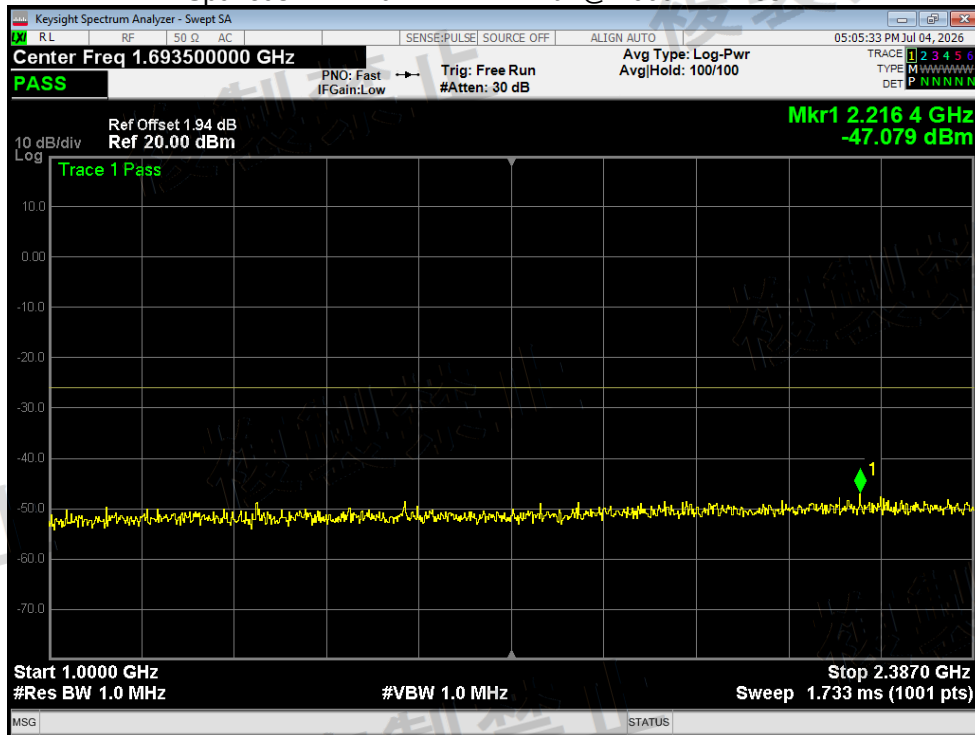
NVNT	n20	2472	2496.5-13000	12894.965	-45.193	0.030	2.5	Pass
NVNT	n40	2422	30-1000	826.37	-58.616	0.014	2.5	Pass
NVNT	n40	2422	1000-2387	2192.82	-47.157	0.019	2.5	Pass
NVNT	n40	2422	2387-2400	2398.57	-47.376	0.018	25	Pass
NVNT	n40	2422	2483.5-2496.5	2494.459	-46.698	0.021	25	Pass
NVNT	n40	2422	2496.5-13000	12663.888	-46.271	0.024	2.5	Pass
NVNT	n40	2442	30-1000	889.42	-58.964	0.013	2.5	Pass
NVNT	n40	2442	1000-2387	2302.393	-47.674	0.017	2.5	Pass
NVNT	n40	2442	2387-2400	2396.438	-46.344	0.023	25	Pass
NVNT	n40	2442	2483.5-2496.5	2489.142	-47.086	0.020	25	Pass
NVNT	n40	2442	2496.5-13000	6277.76	-46.137	0.024	2.5	Pass
NVNT	n40	2462	30-1000	396.66	-58.393	0.014	2.5	Pass
NVNT	n40	2462	1000-2387	2163.693	-46.737	0.021	2.5	Pass
NVNT	n40	2462	2387-2400	2398.076	-47.429	0.018	25	Pass
NVNT	n40	2462	2483.5-2496.5	2492.899	-47.375	0.018	25	Pass
NVNT	n40	2462	2496.5-13000	2612.038	-46.272	0.024	2.5	Pass

NOET: For 30M-1G final test result (dBm/MHz) = test values + 10*log(1000kHz/100kHz)

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

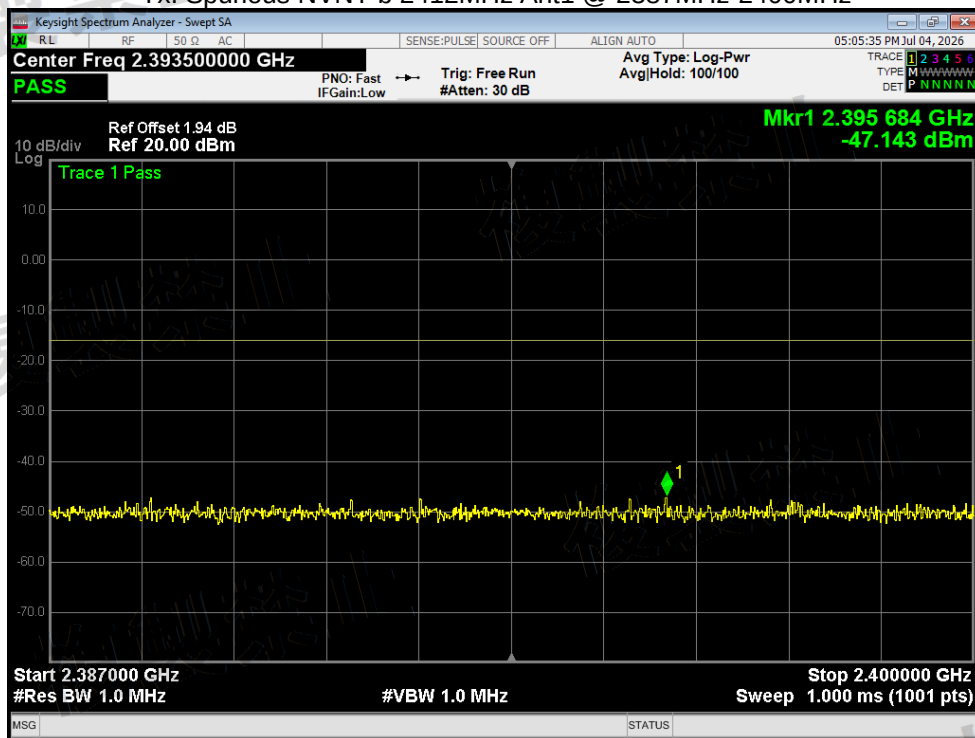


Tx. Spurious NVNT b 2412MHz Ant1 @ 1000MHz-2387MHz

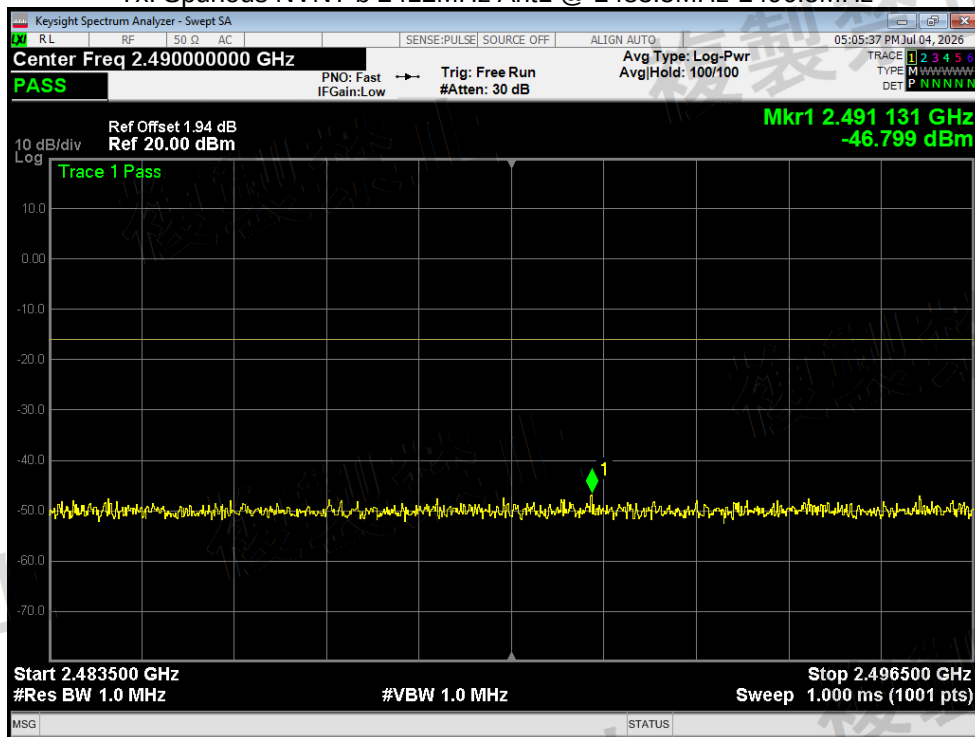




Tx. Spurious NVNT b 2412MHz Ant1 @ 2387MHz-2400MHz

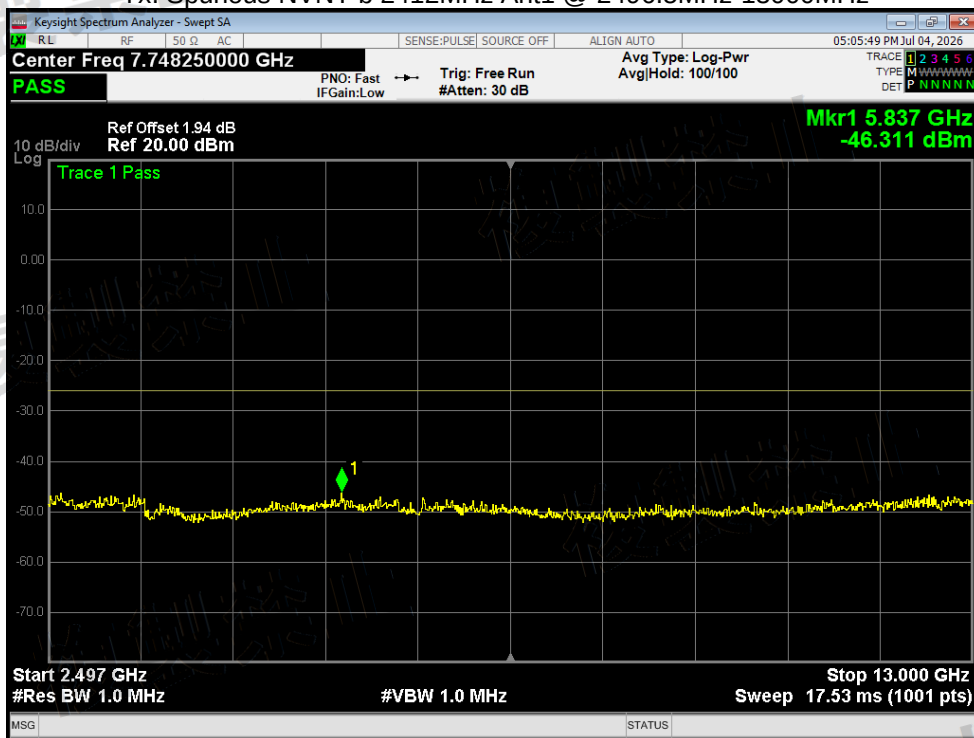


Tx. Spurious NVNT b 2412MHz Ant1 @ 2483.5MHz-2496.5MHz

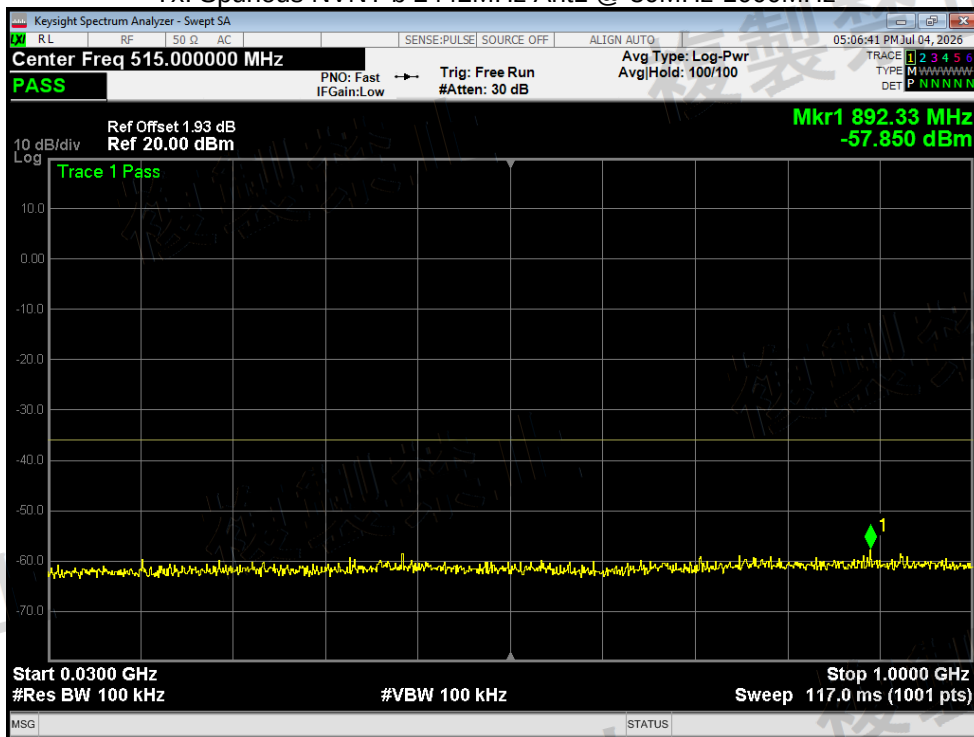




Tx. Spurious NVNT b 2412MHz Ant1 @ 2496.5MHz-13000MHz

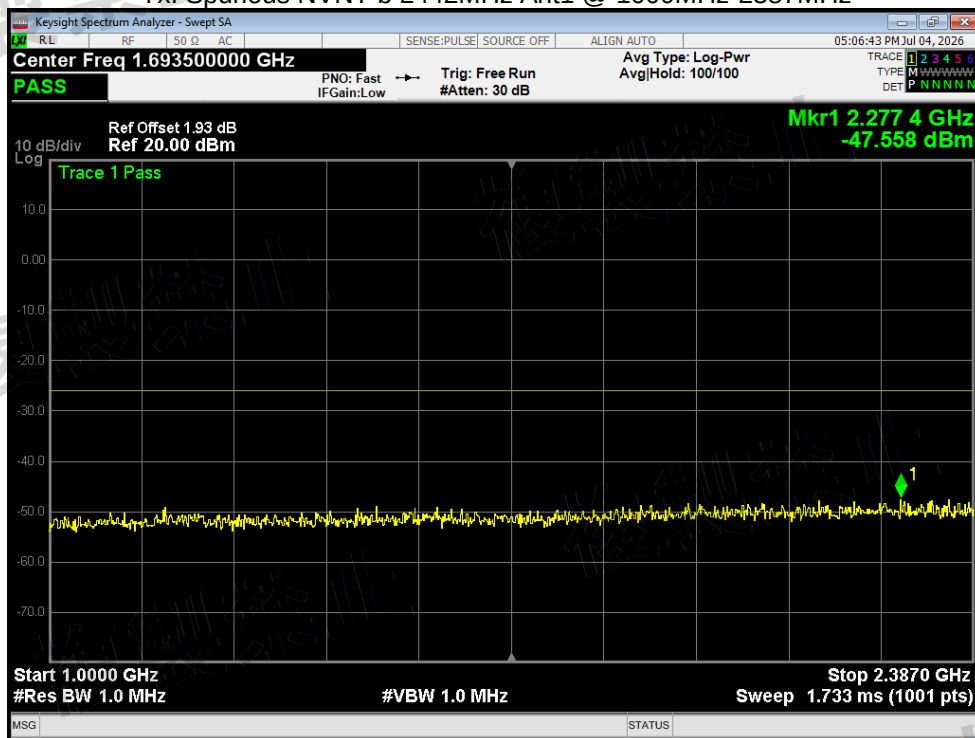


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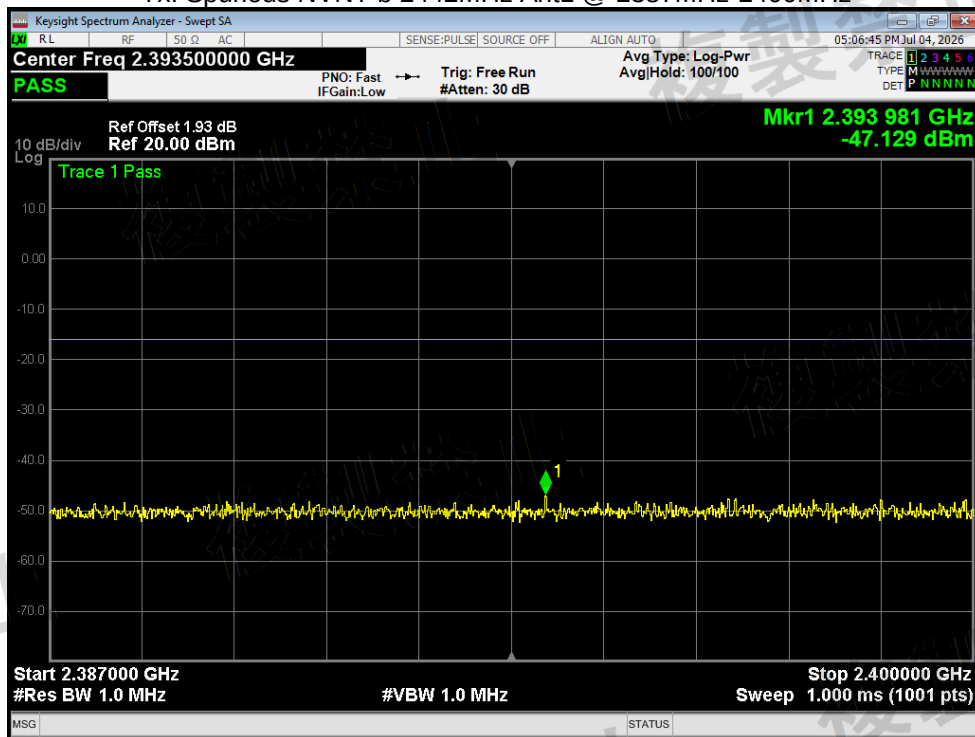




Tx. Spurious NVNT b 2442MHz Ant1 @ 1000MHz-2387MHz

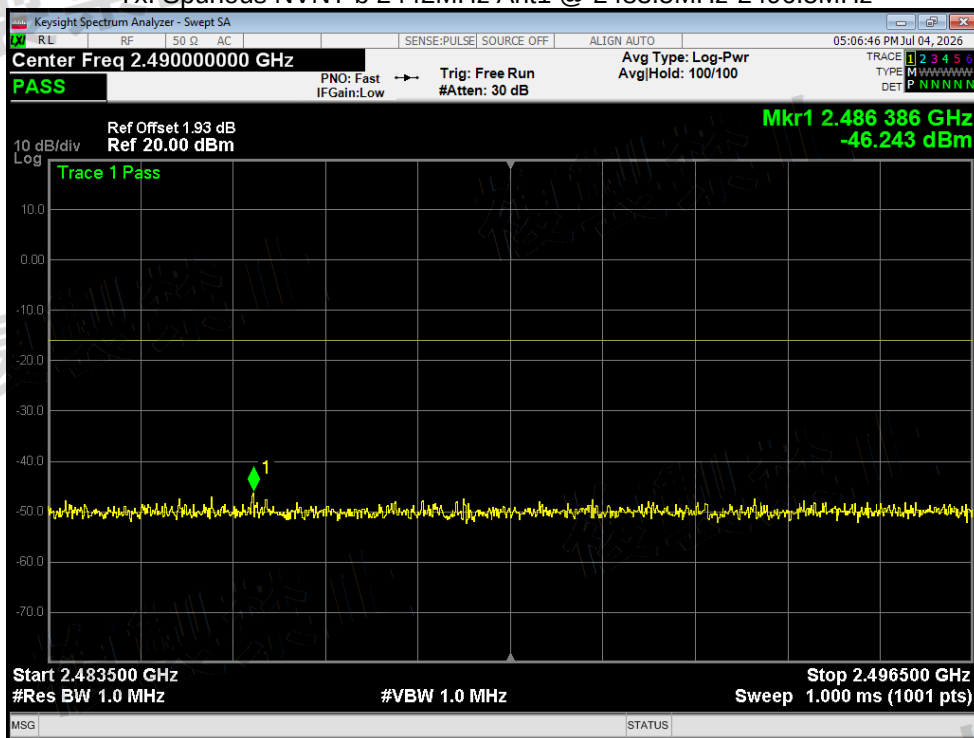


Tx. Spurious NVNT b 2442MHz Ant1 @ 2387MHz-2400MHz

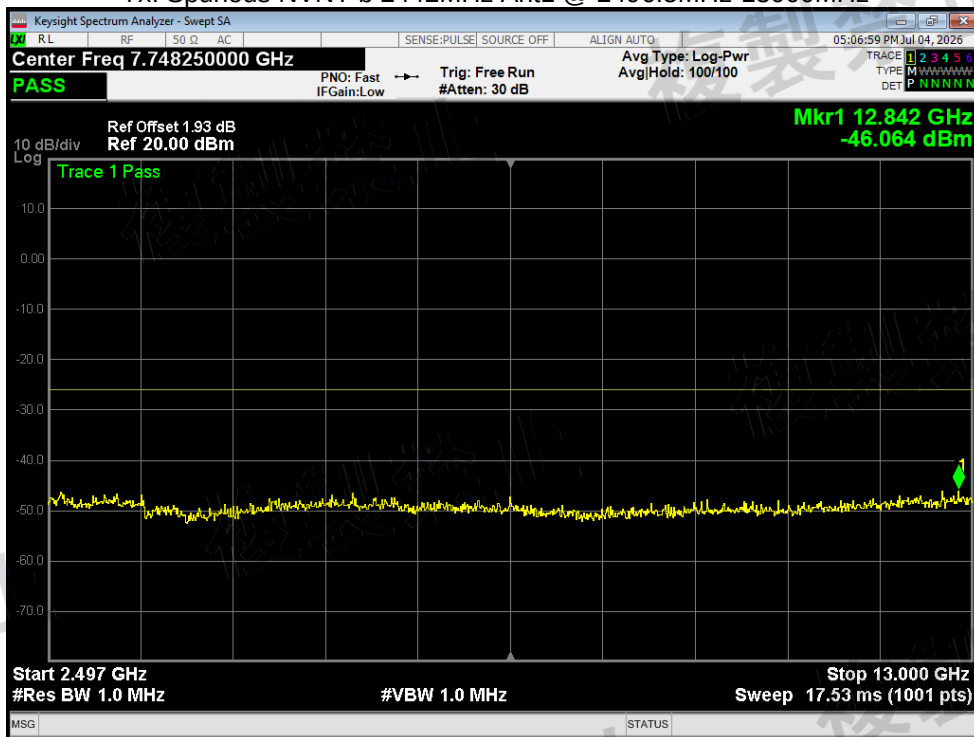




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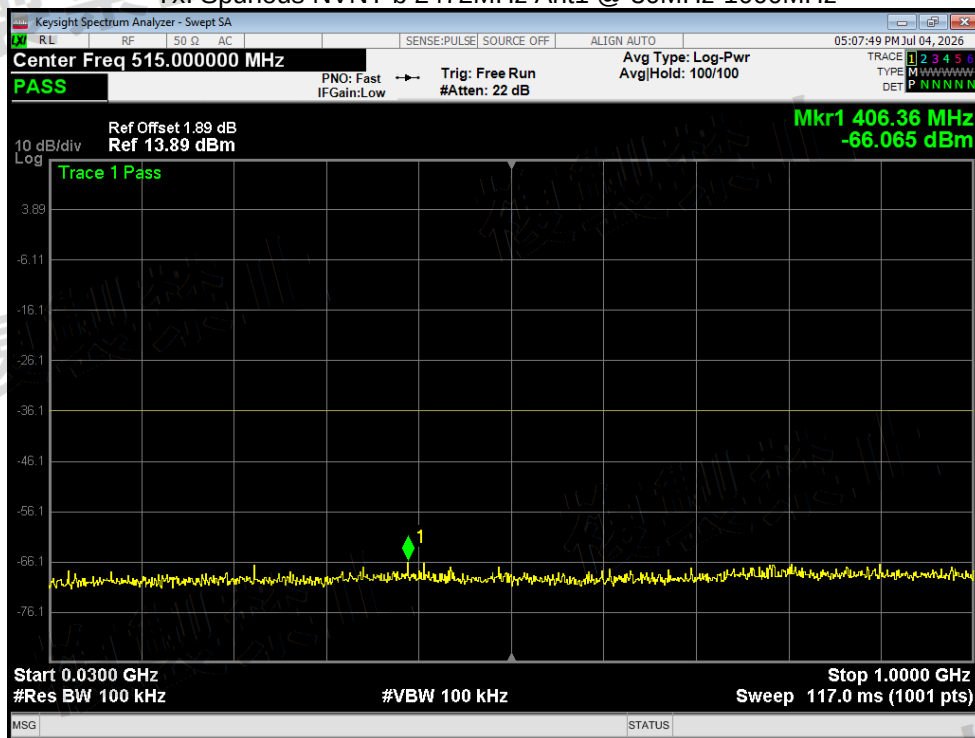


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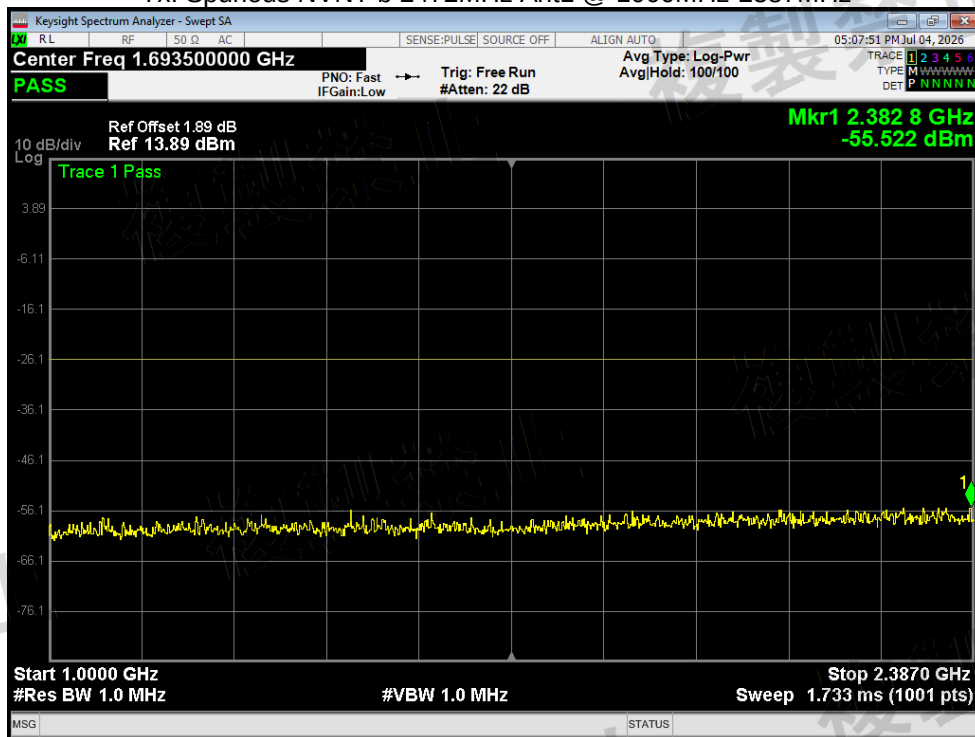




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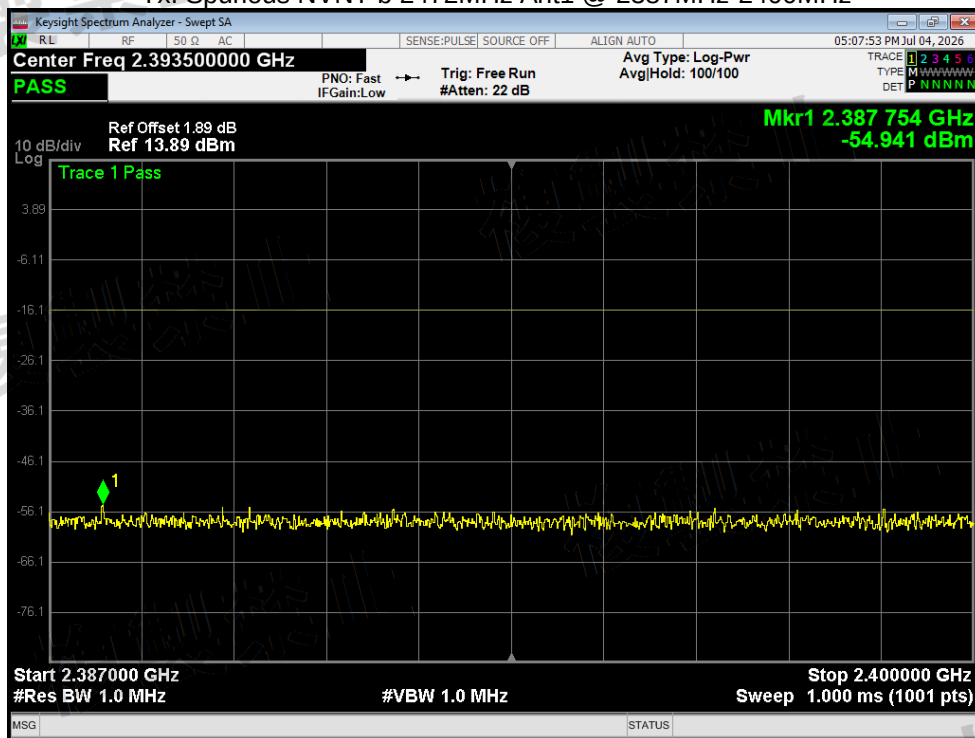


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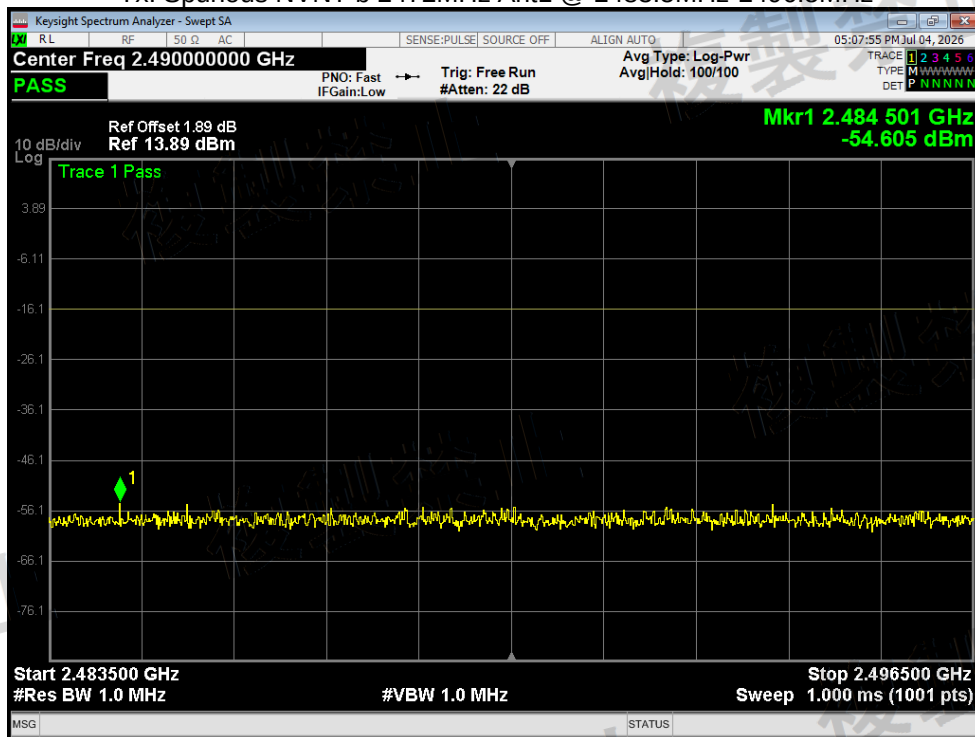




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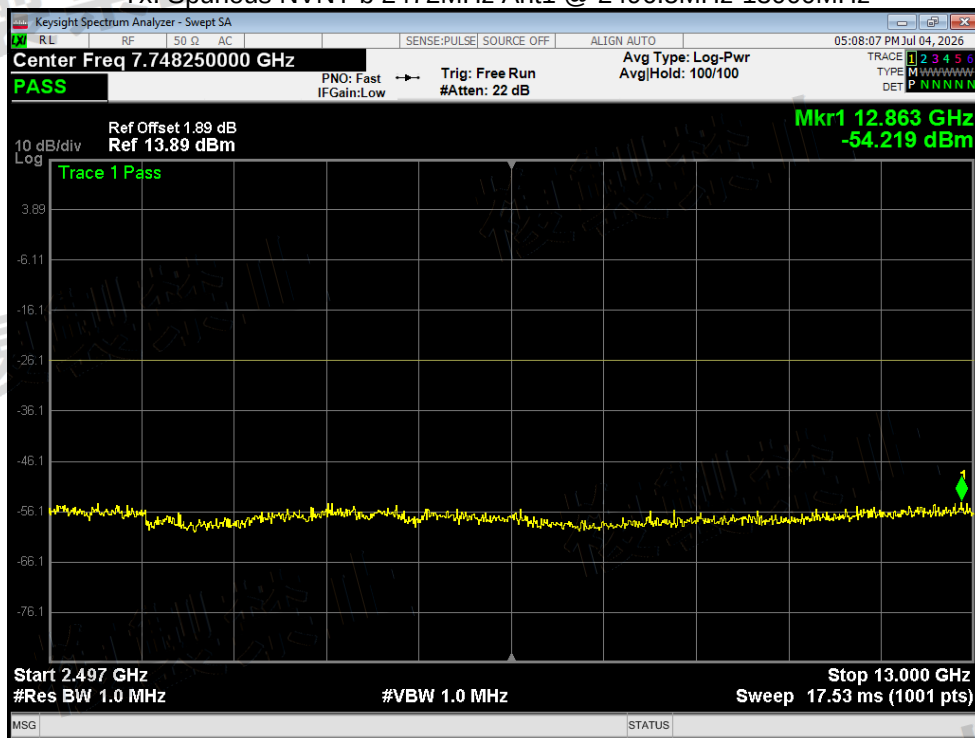


Tx. Spurious NVNT b 2472MHz Ant1 @ 2483.5MHz-2496.5MHz

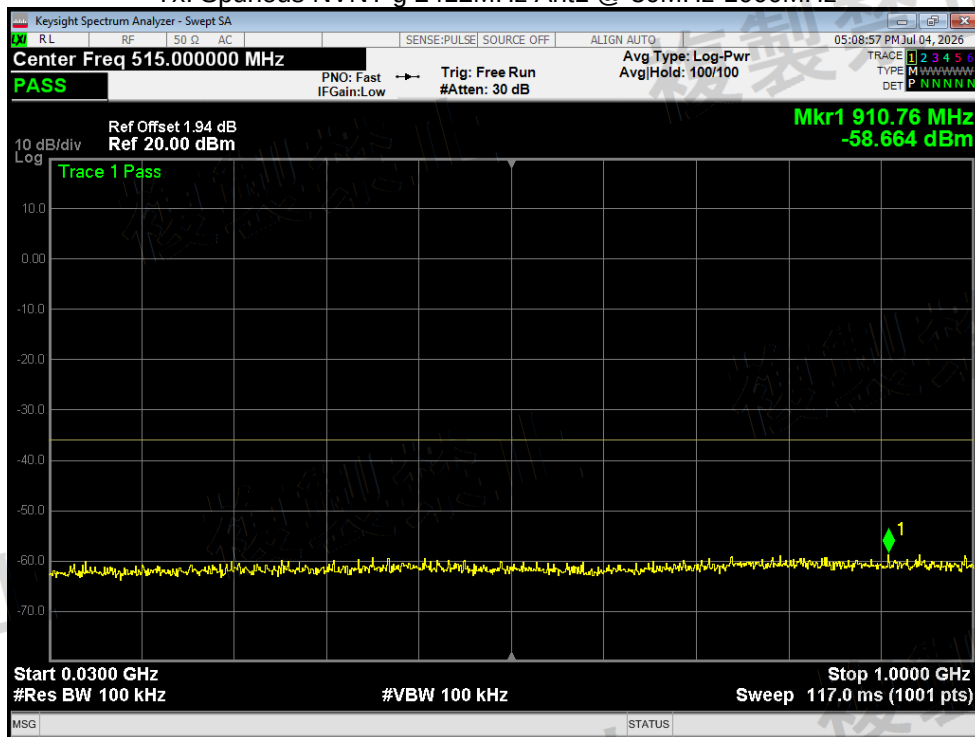




Tx. Spurious NVNT b 2472MHz Ant1 @ 2496.5MHz-13000MHz

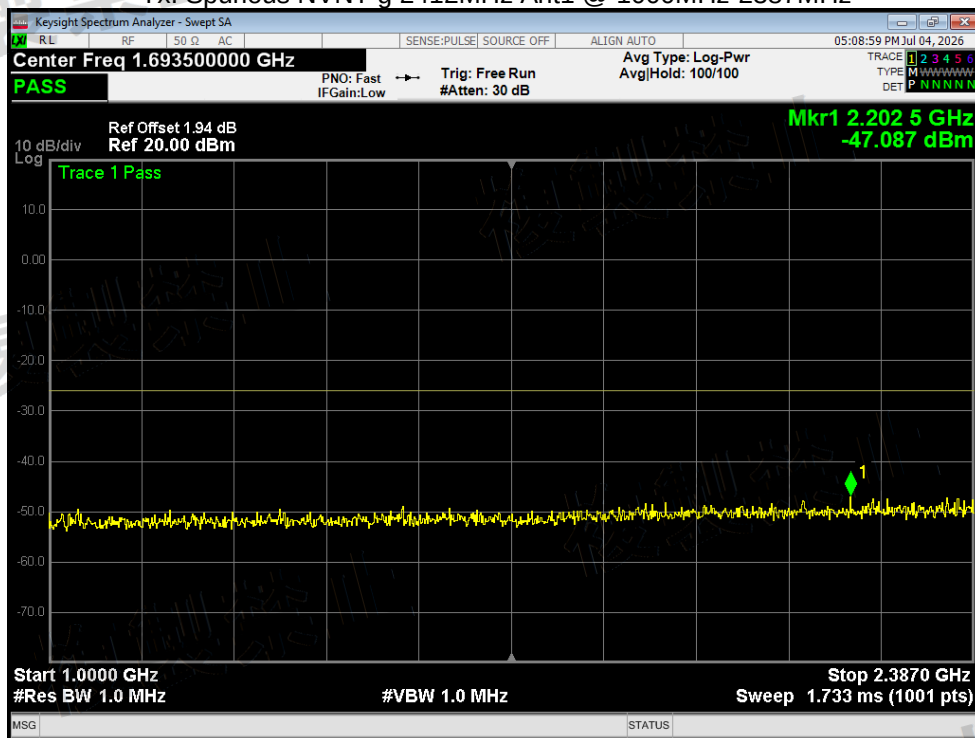


Tx. Spurious NVNT g 2412MHz Ant1 @ 30MHz-1000MHz

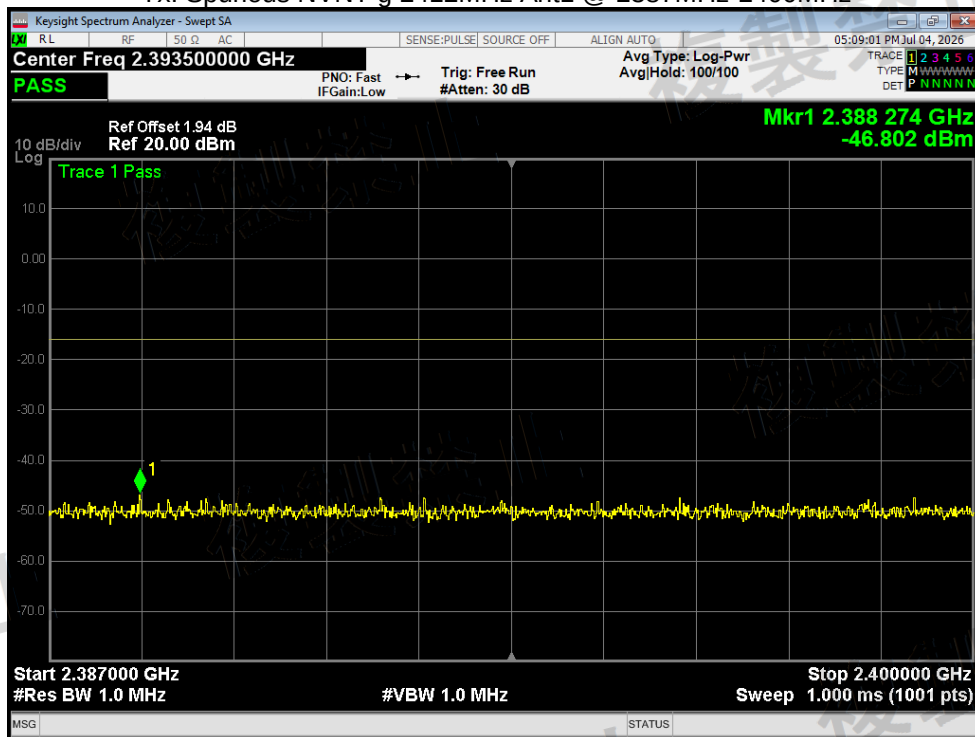




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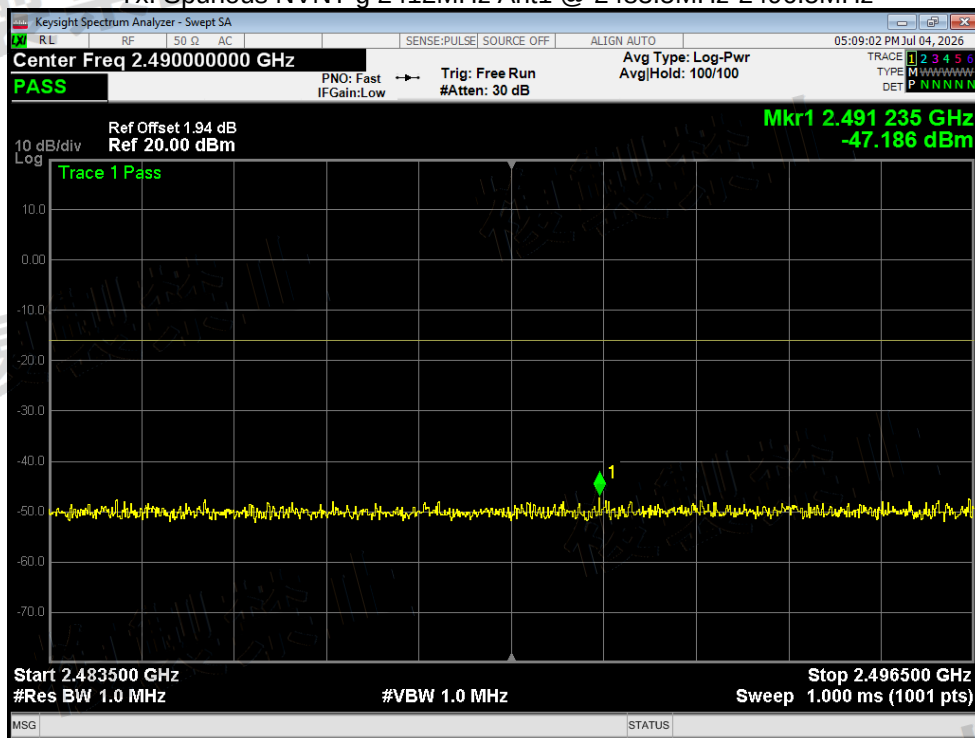


Tx. Spurious NVNT g 2412MHz Ant1 @ 2387MHz-2400MHz

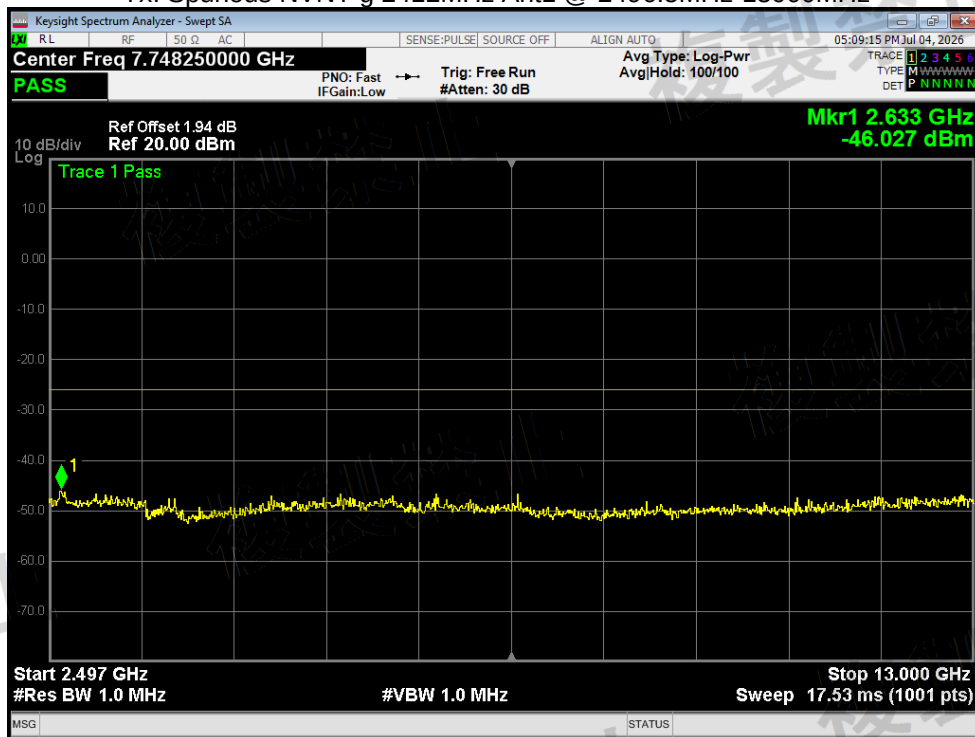




Tx. Spurious NVNT g 2412MHz Ant1 @ 2483.5MHz-2496.5MHz

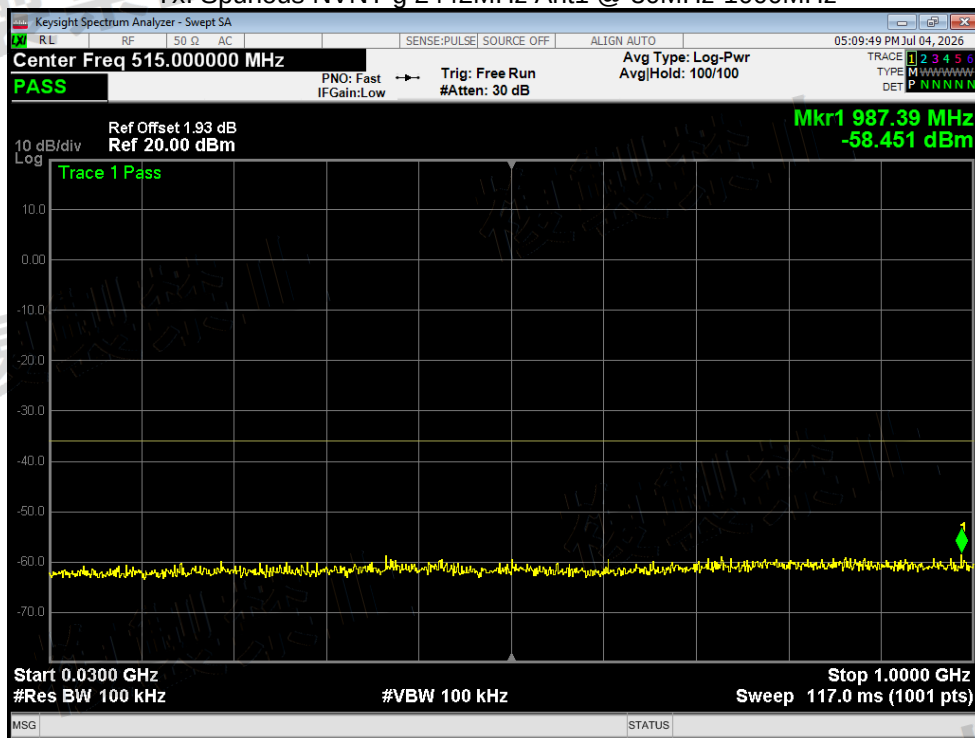


Tx. Spurious NVNT g 2412MHz Ant1 @ 2496.5MHz-13000MHz

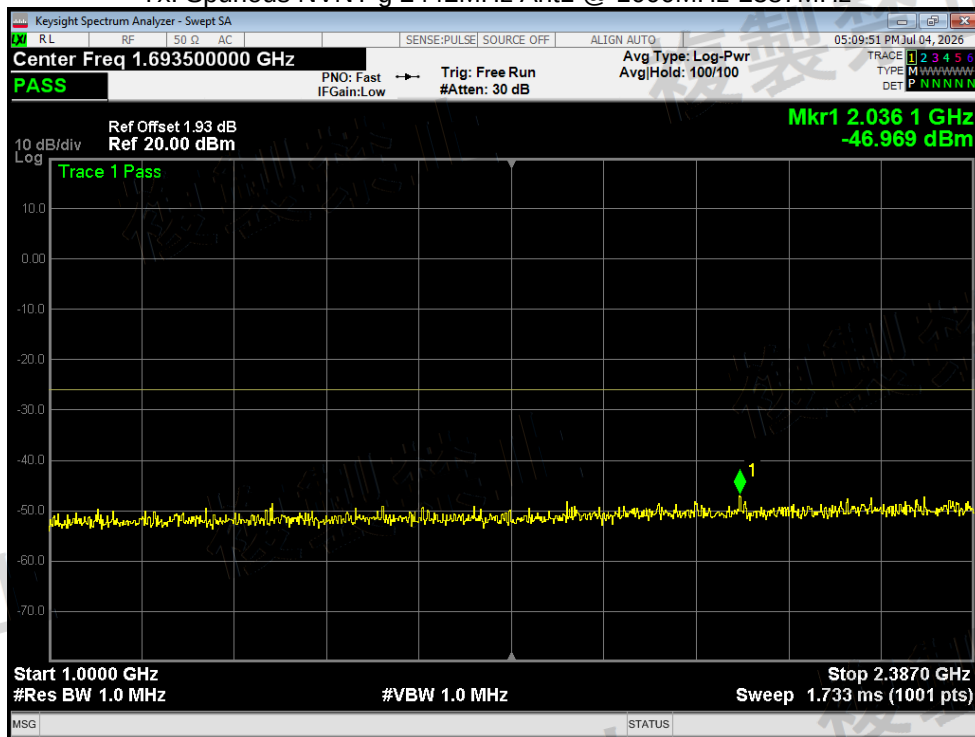




Tx. Spurious NVNT g 2442MHz Ant1 @ 30MHz-1000MHz

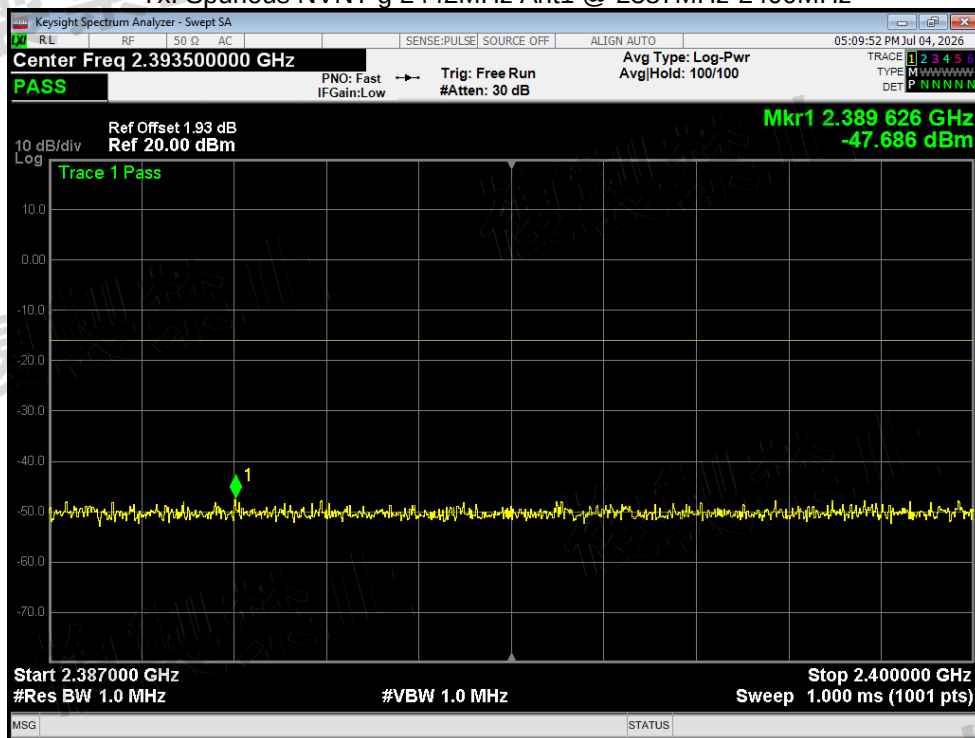


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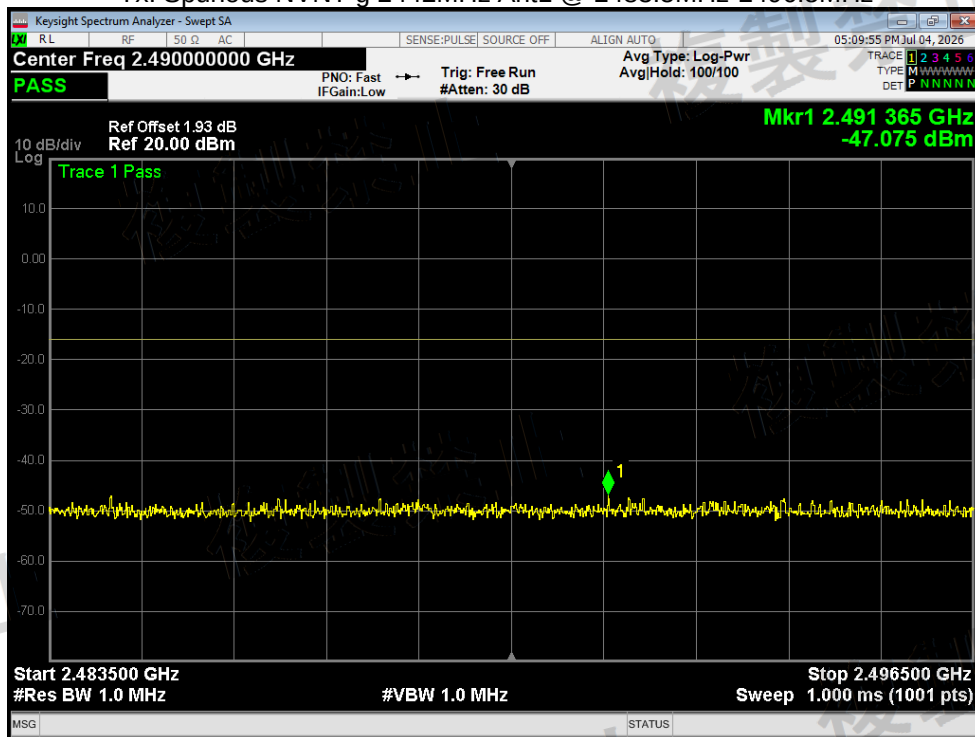




Tx. Spurious NVNT g 2442MHz Ant1 @ 2387MHz-2400MHz

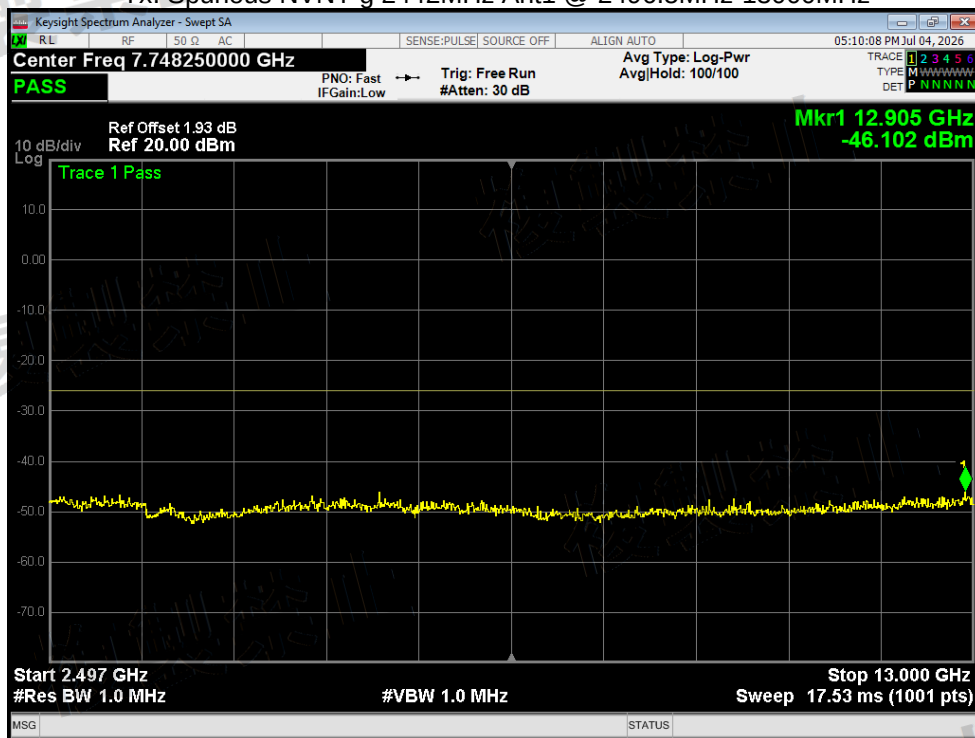


Tx. Spurious NVNT g 2442MHz Ant1 @ 2483.5MHz-2496.5MHz

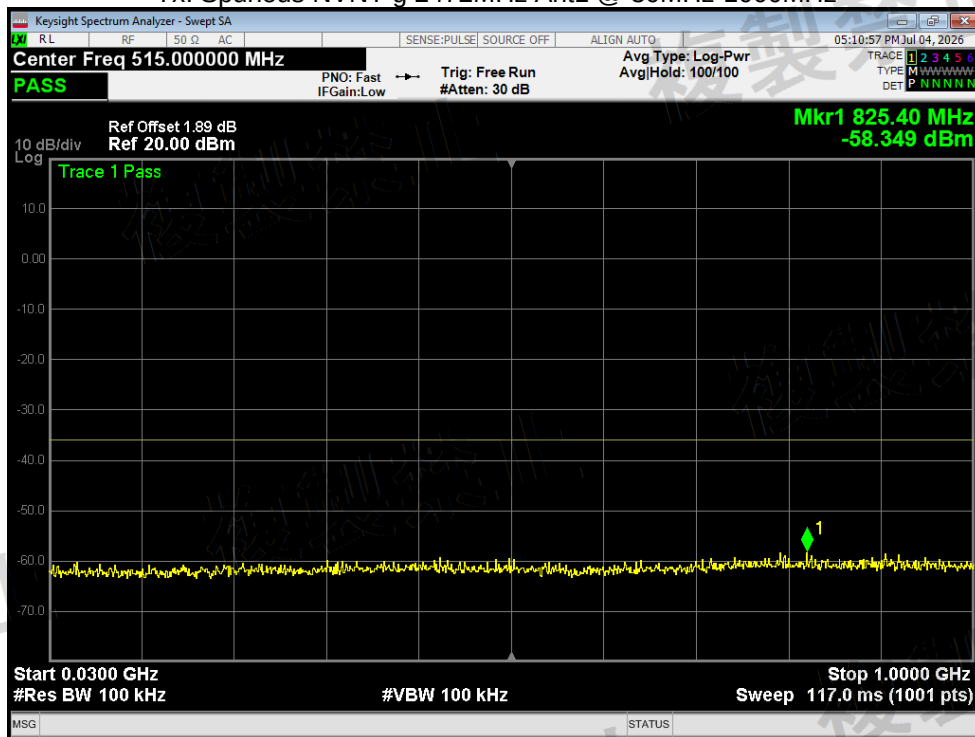




Tx. Spurious NVNT g 2442MHz Ant1 @ 2496.5MHz-13000MHz

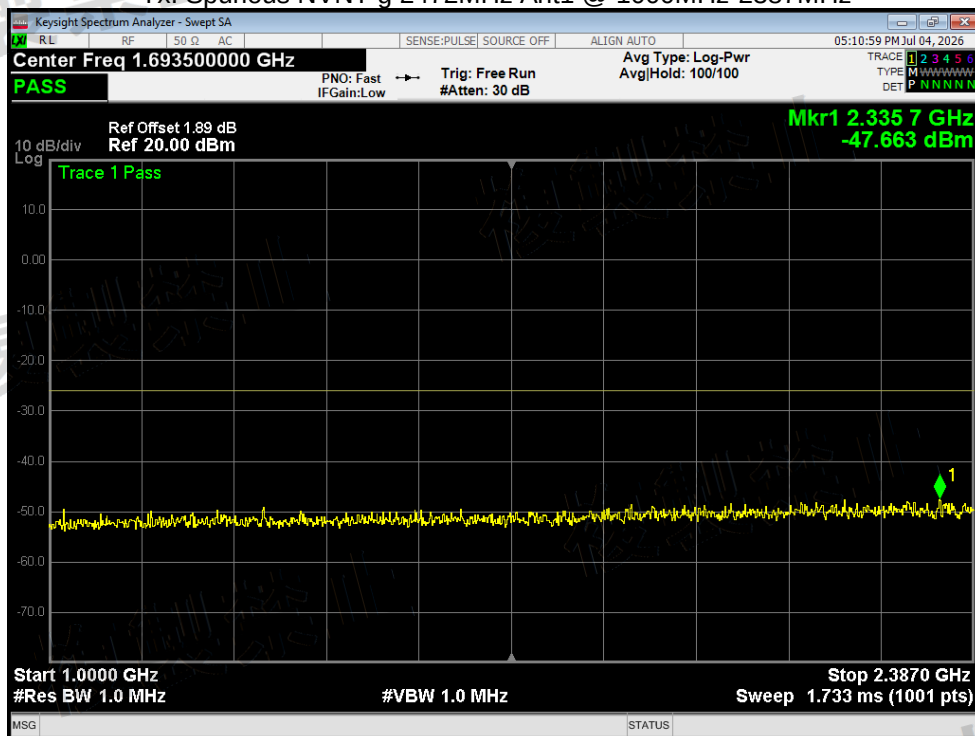


Tx. Spurious NVNT g 2472MHz Ant1 @ 30MHz-1000MHz

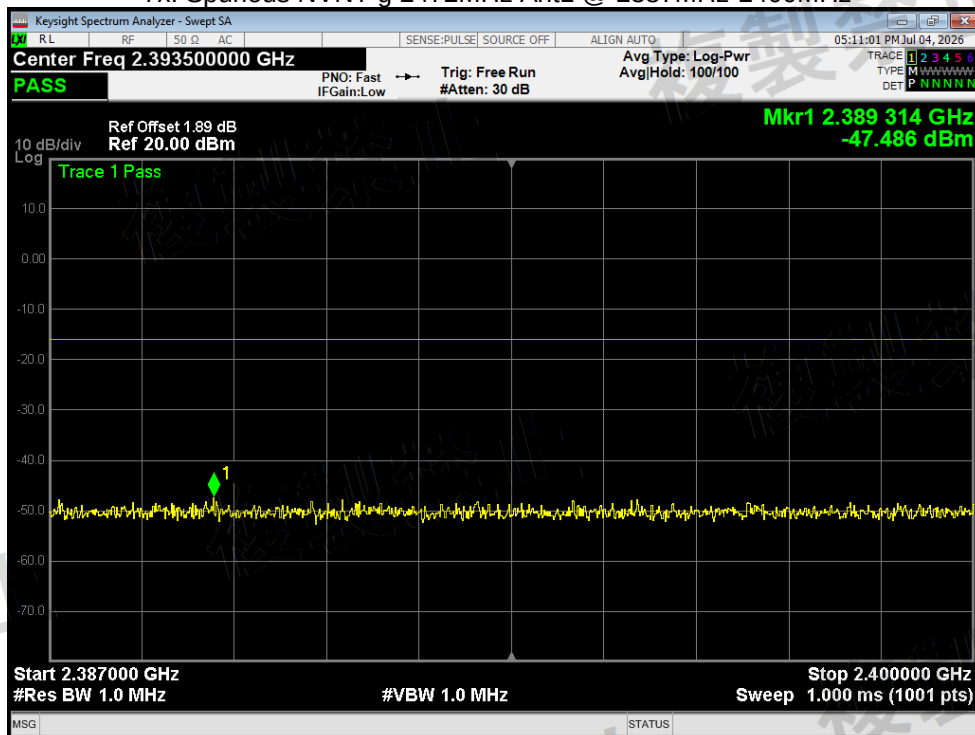




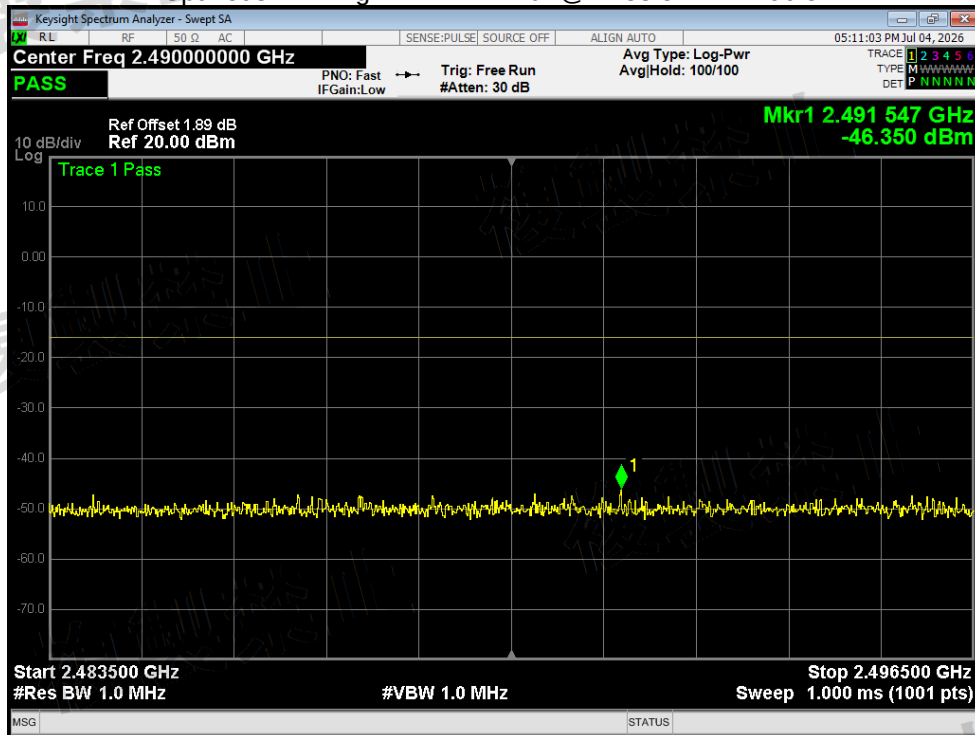
Tx. Spurious NVNT g 2472MHz Ant1 @ 1000MHz-2387MHz



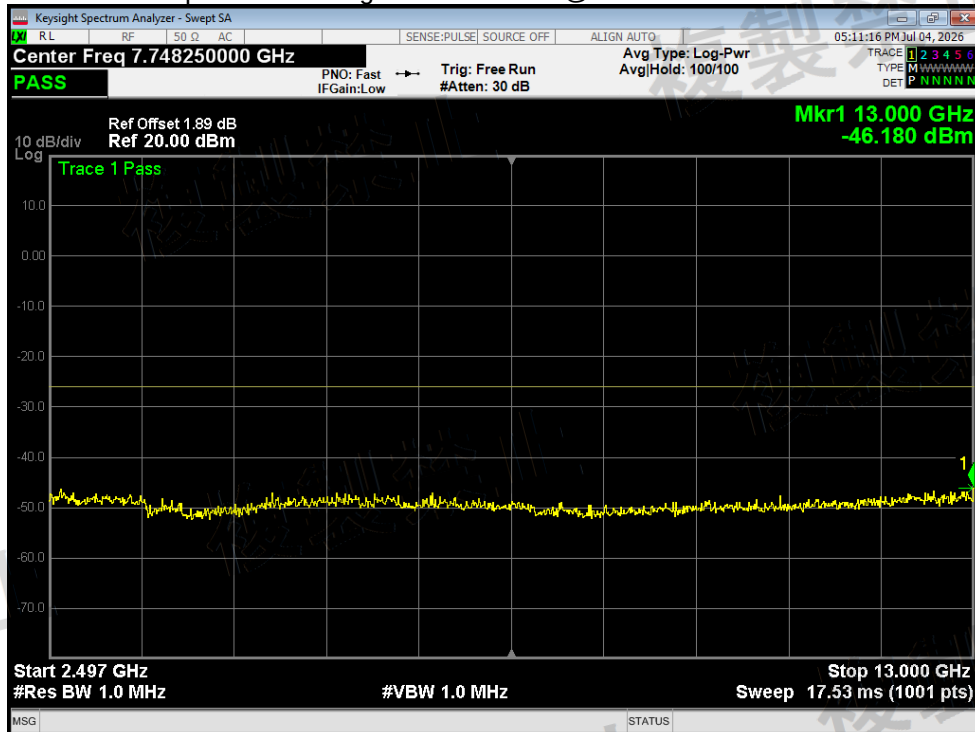
Tx. Spurious NVNT g 2472MHz Ant1 @ 2387MHz-2400MHz



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

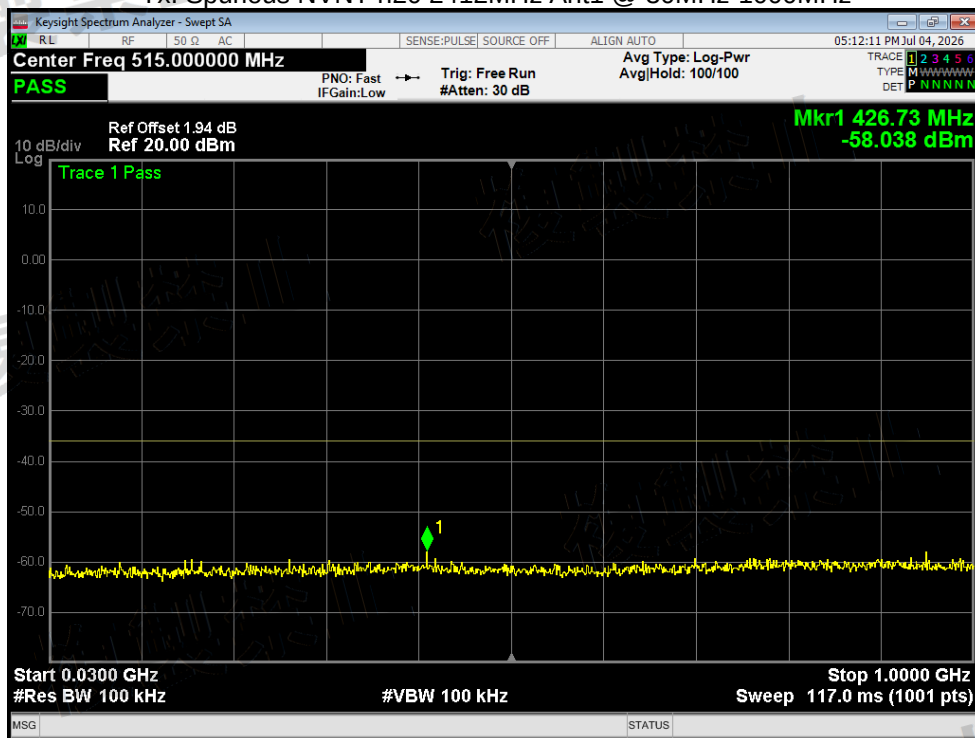


Tx. Spurious NVNT g 2472MHz Ant1 @ 2496.5MHz-13000MHz

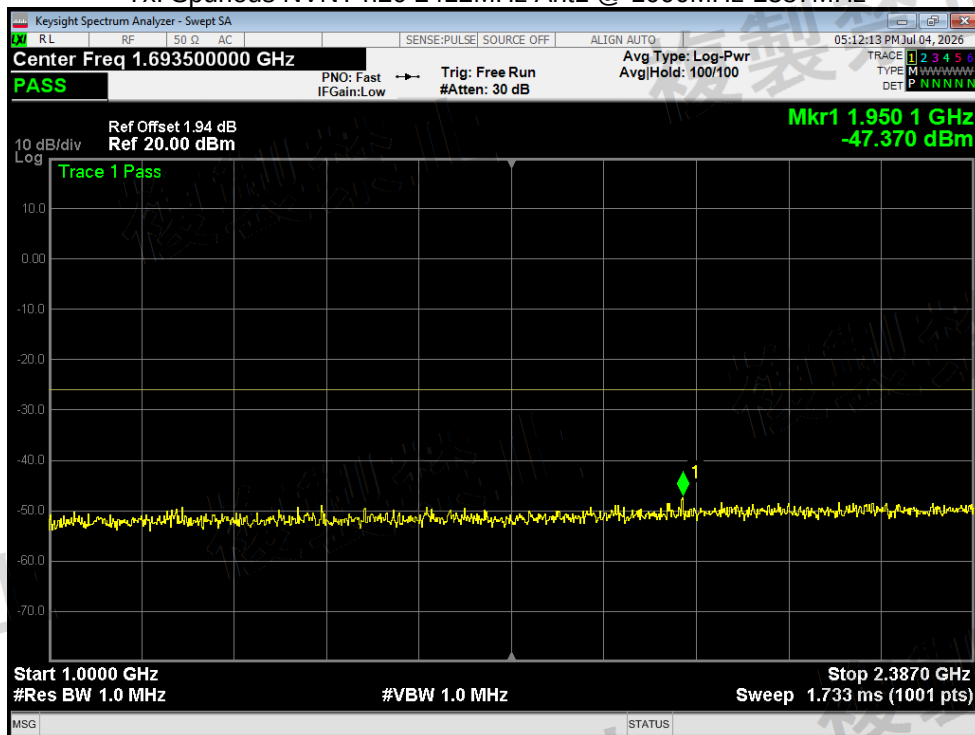




Tx. Spurious NVNT n20 2412MHz Ant1 @ 30MHz-1000MHz

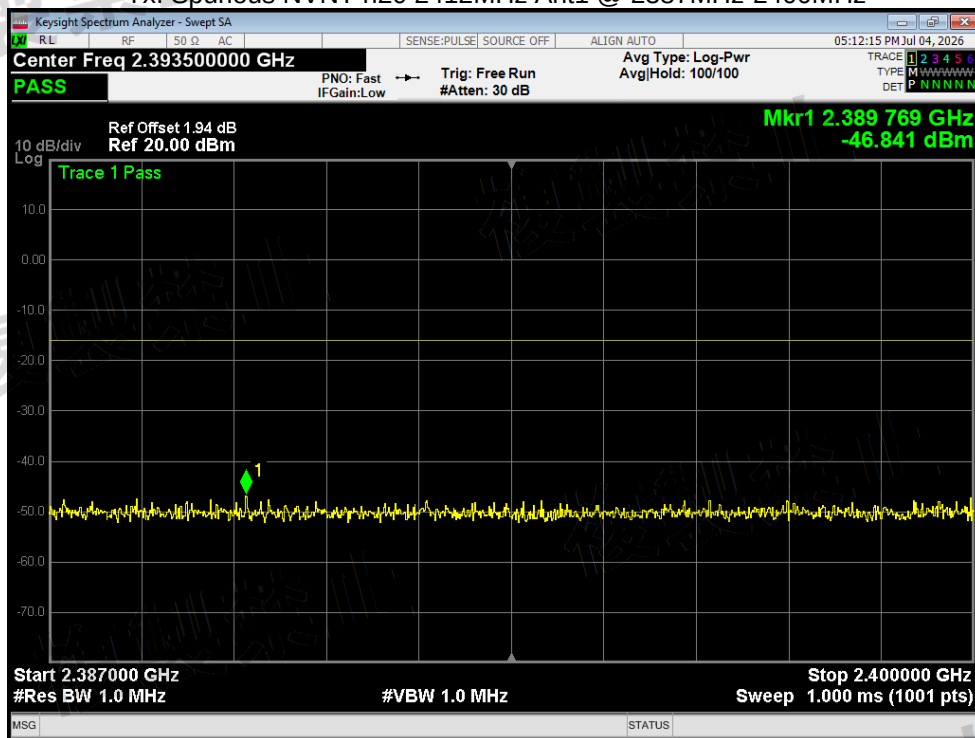


Tx. Spurious NVNT n20 2412MHz Ant1 @ 1000MHz-2387MHz

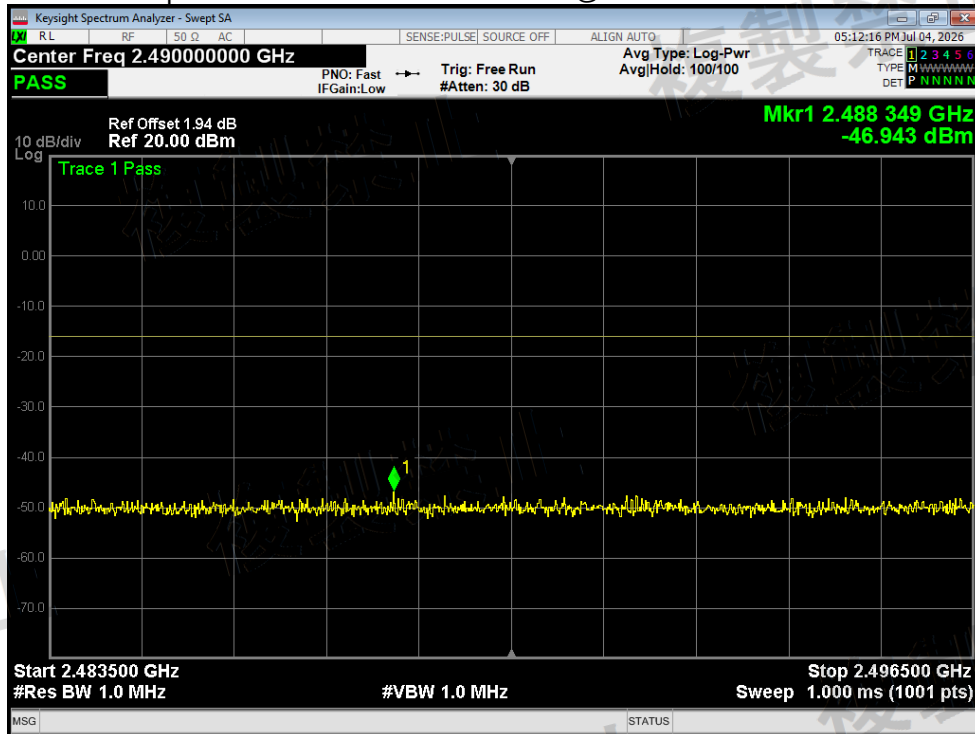




Tx. Spurious NVNT n20 2412MHz Ant1 @ 2387MHz-2400MHz

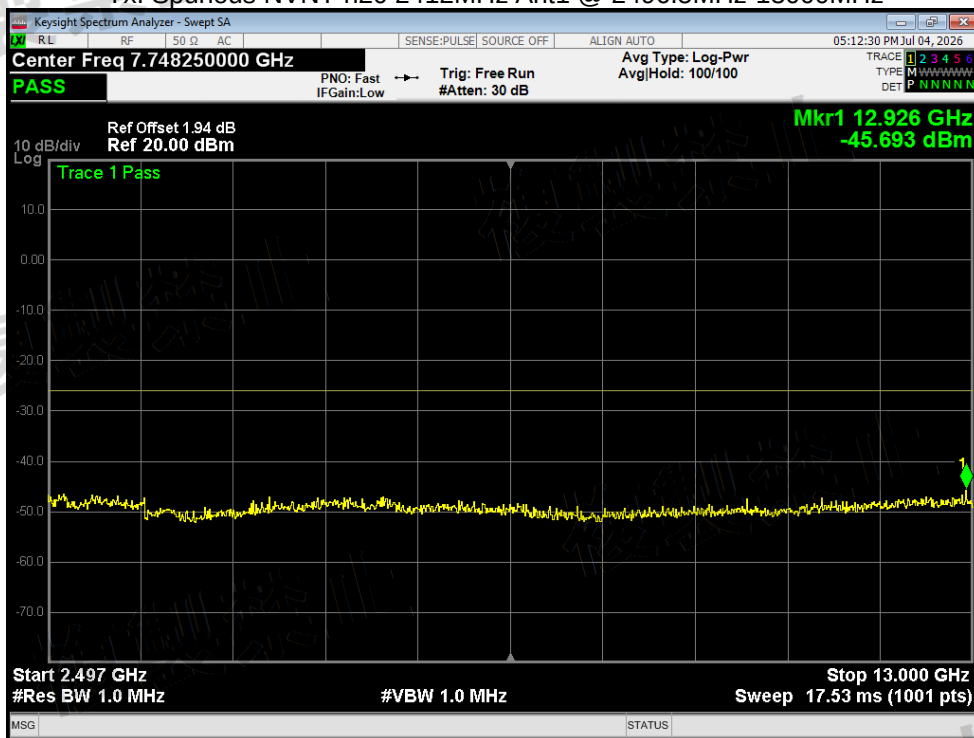


Tx. Spurious NVNT n20 2412MHz Ant1 @ 2483.5MHz-2496.5MHz

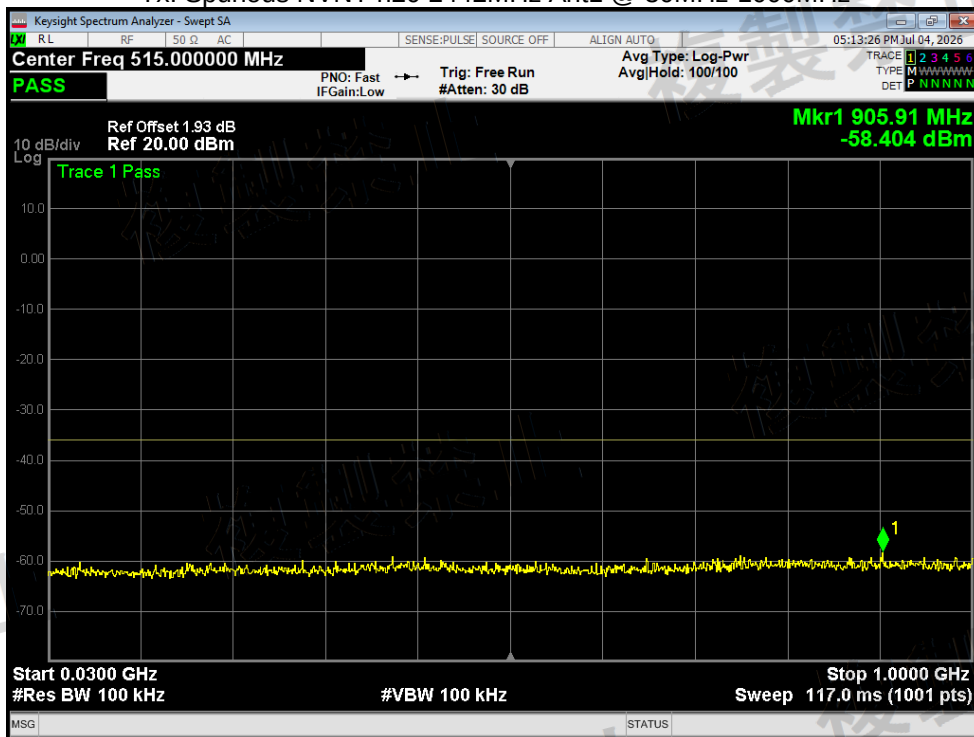




Tx. Spurious NVNT n20 2412MHz Ant1 @ 2496.5MHz-13000MHz

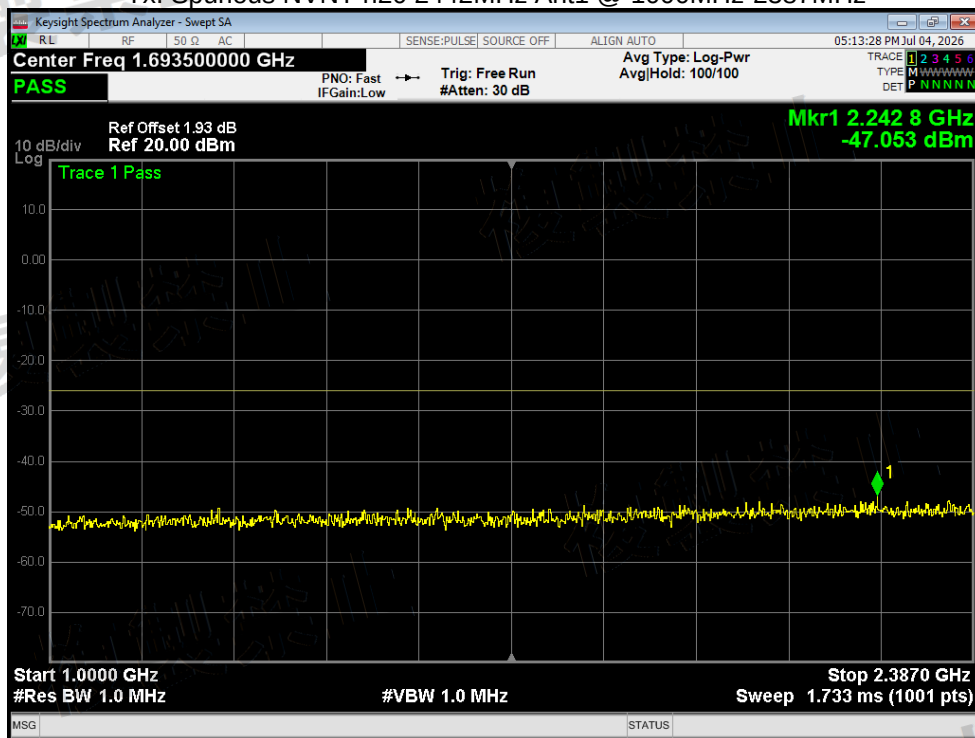


Tx. Spurious NVNT n20 2442MHz Ant1 @ 30MHz-1000MHz

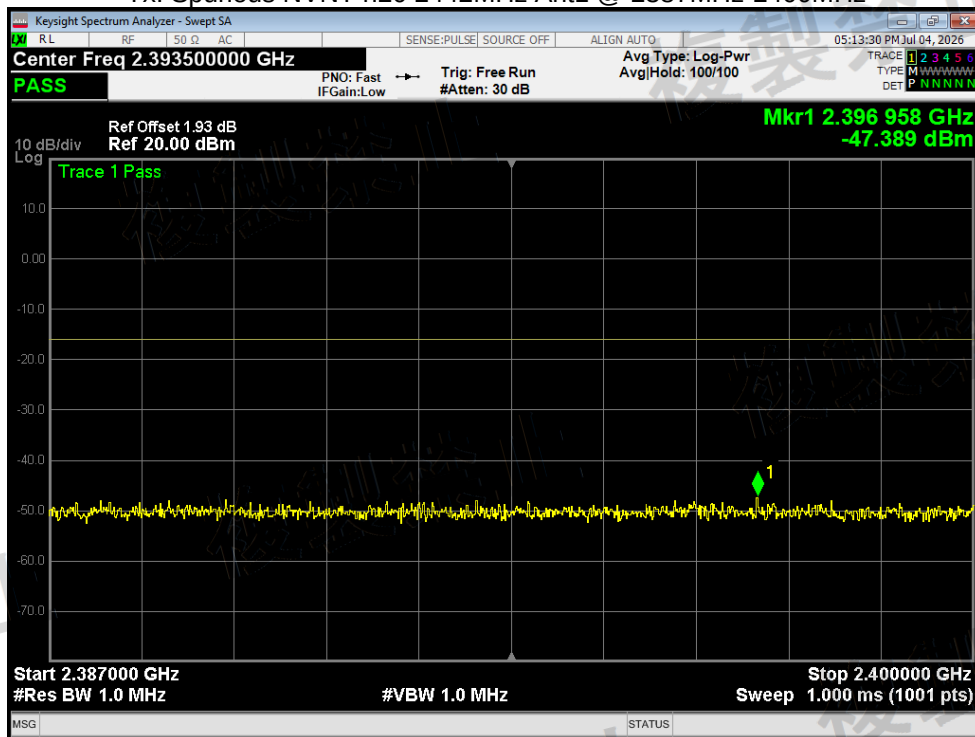




Tx. Spurious NVNT n20 2442MHz Ant1 @ 1000MHz-2387MHz

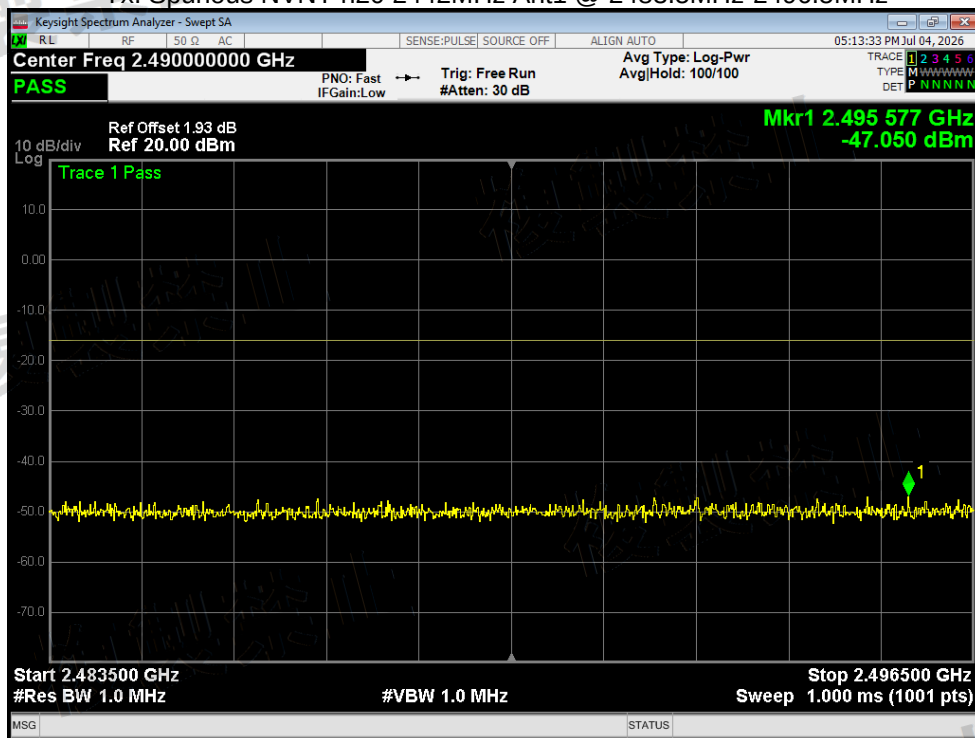


Tx. Spurious NVNT n20 2442MHz Ant1 @ 2387MHz-2400MHz

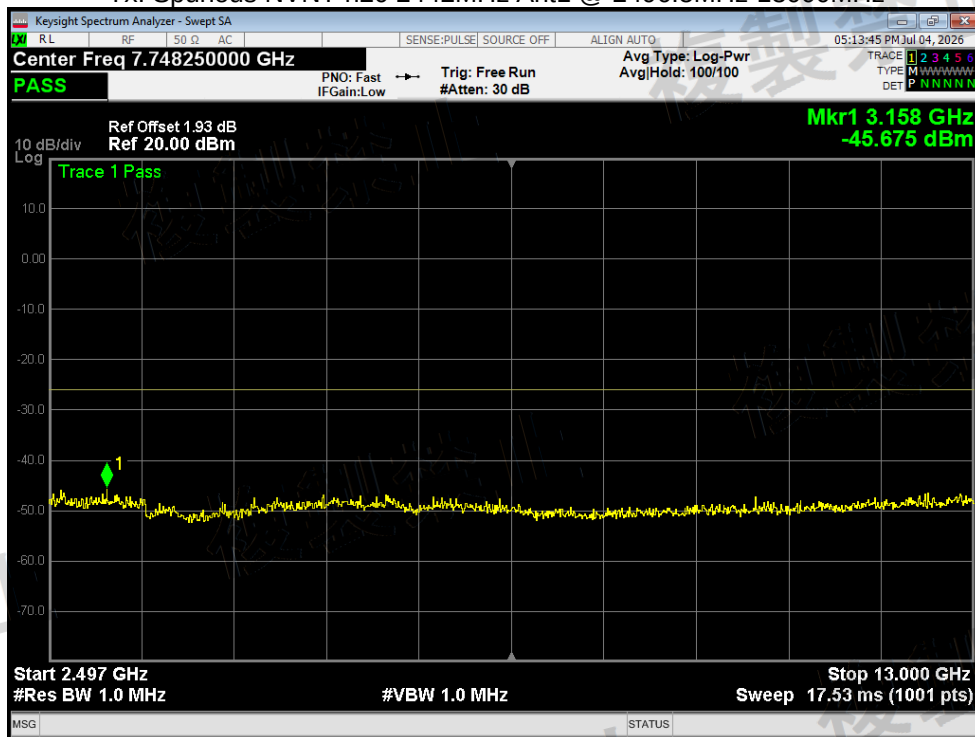




Tx. Spurious NVNT n20 2442MHz Ant1 @ 2483.5MHz-2496.5MHz

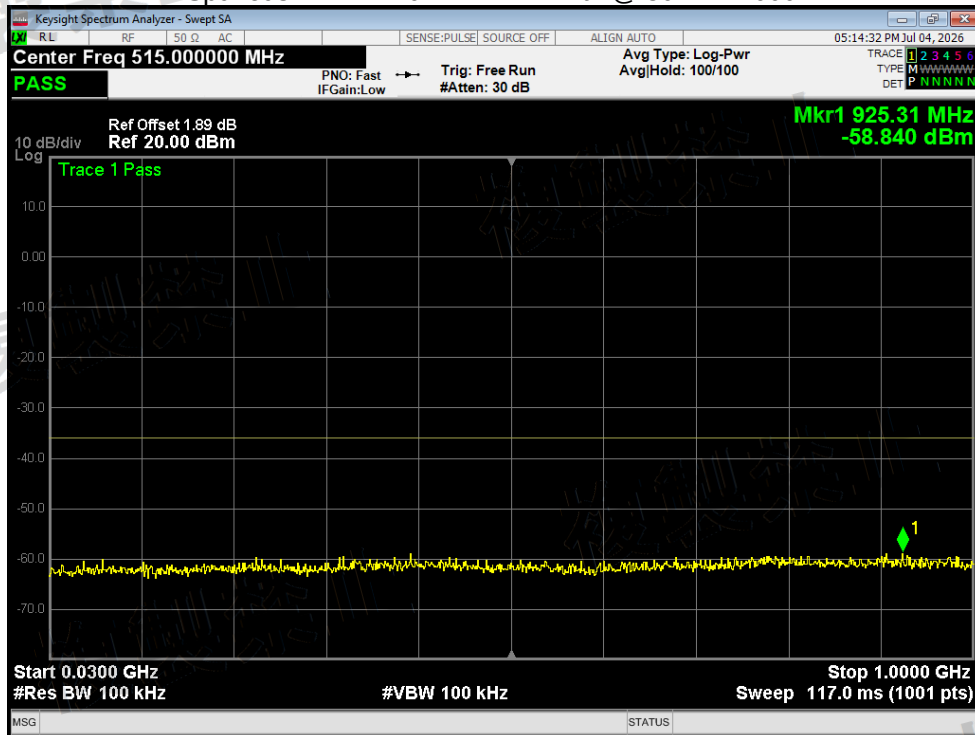


Tx. Spurious NVNT n20 2442MHz Ant1 @ 2496.5MHz-13000MHz

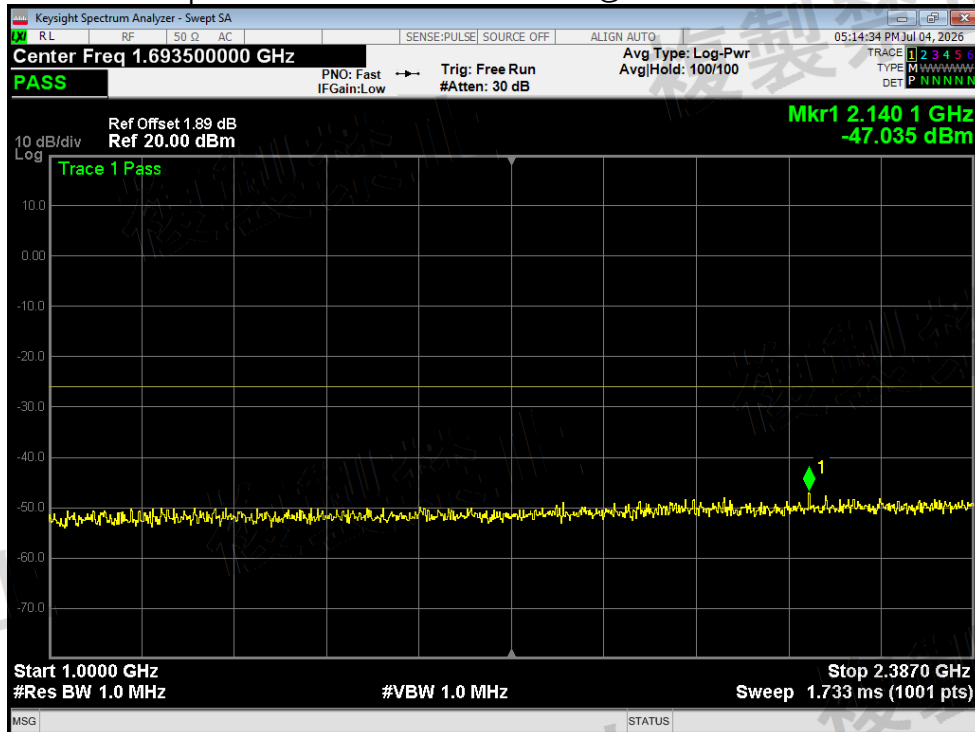




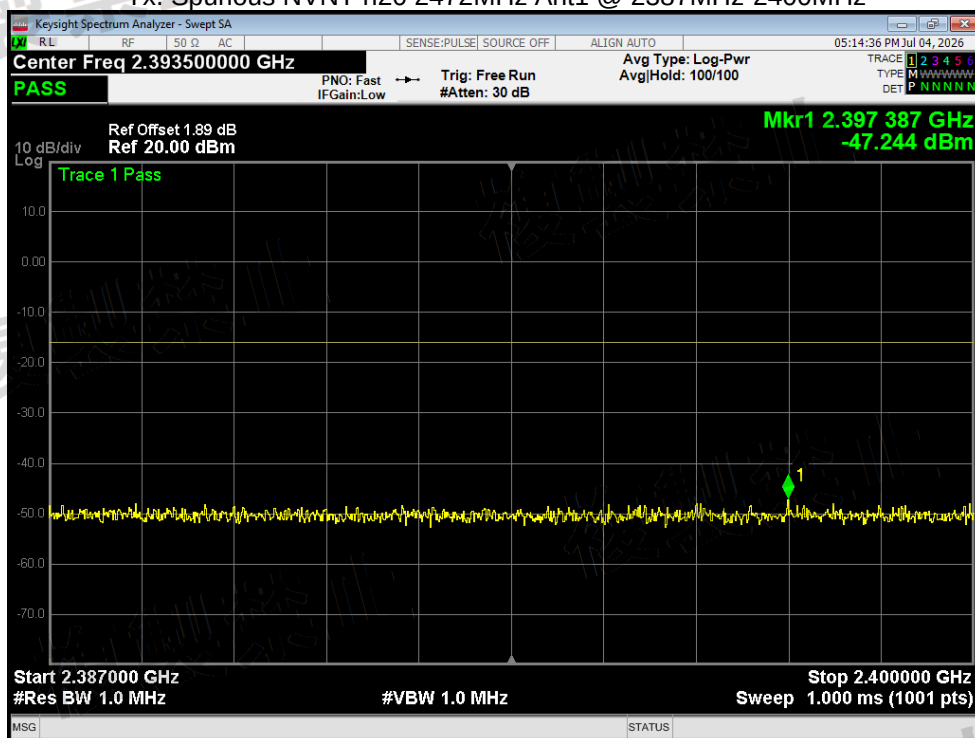
Tx. Spurious NVNT n20 2472MHz Ant1 @ 30MHz-1000MHz



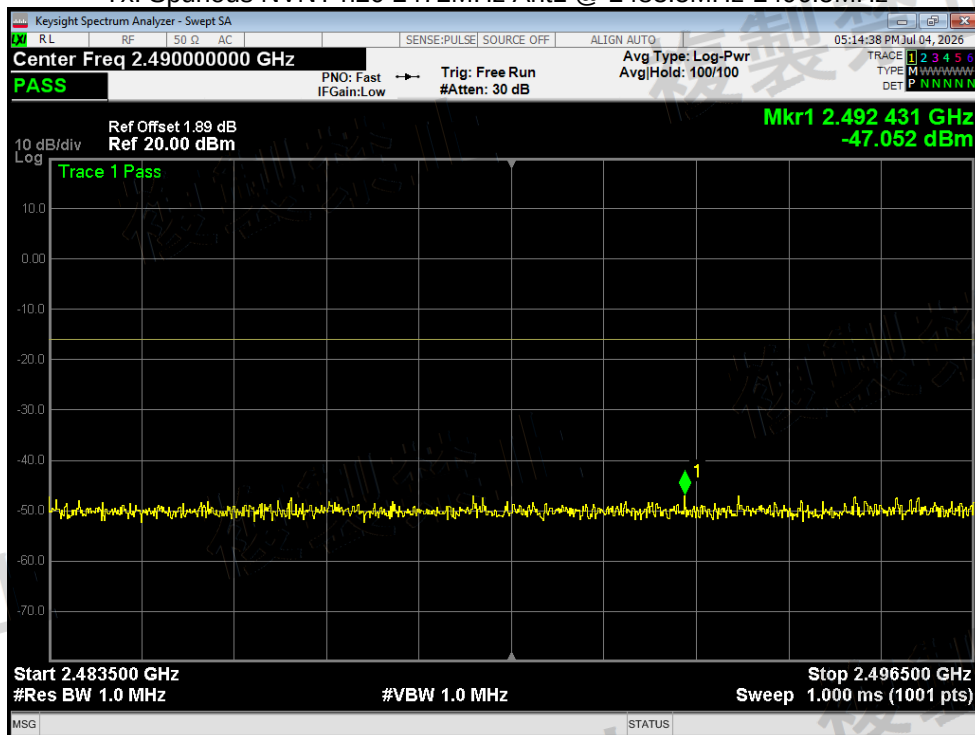
Tx. Spurious NVNT n20 2472MHz Ant1 @ 1000MHz-2387MHz



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

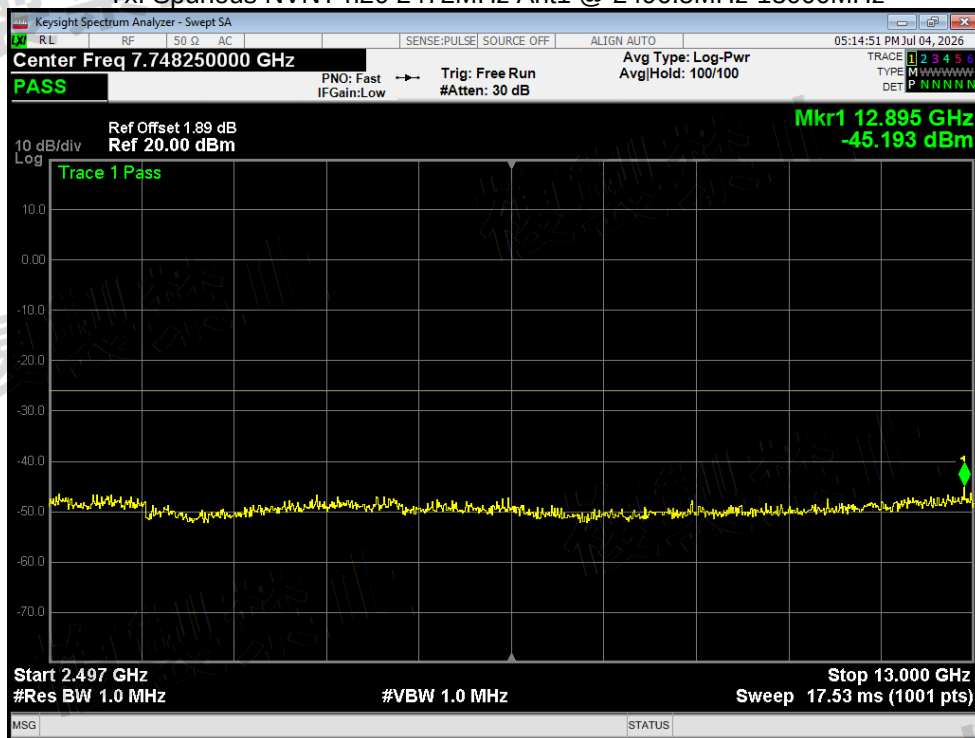


Tx. Spurious NVNT n20 2472MHz Ant1 @ 2483.5MHz-2496.5MHz

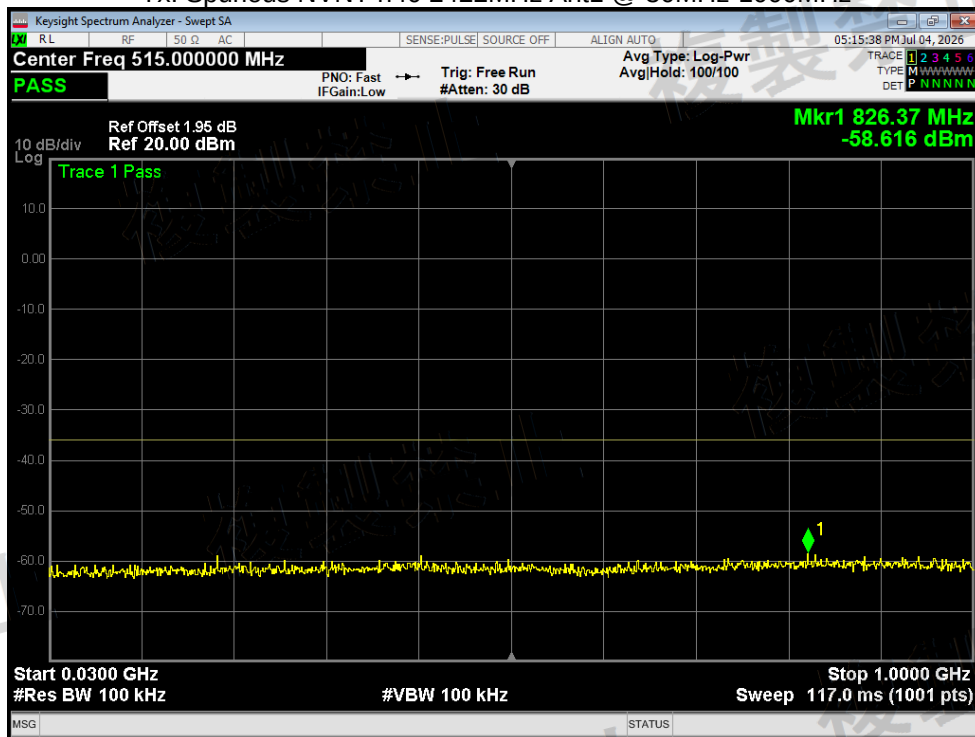




Tx. Spurious NVNT n20 2472MHz Ant1 @ 2496.5MHz-13000MHz

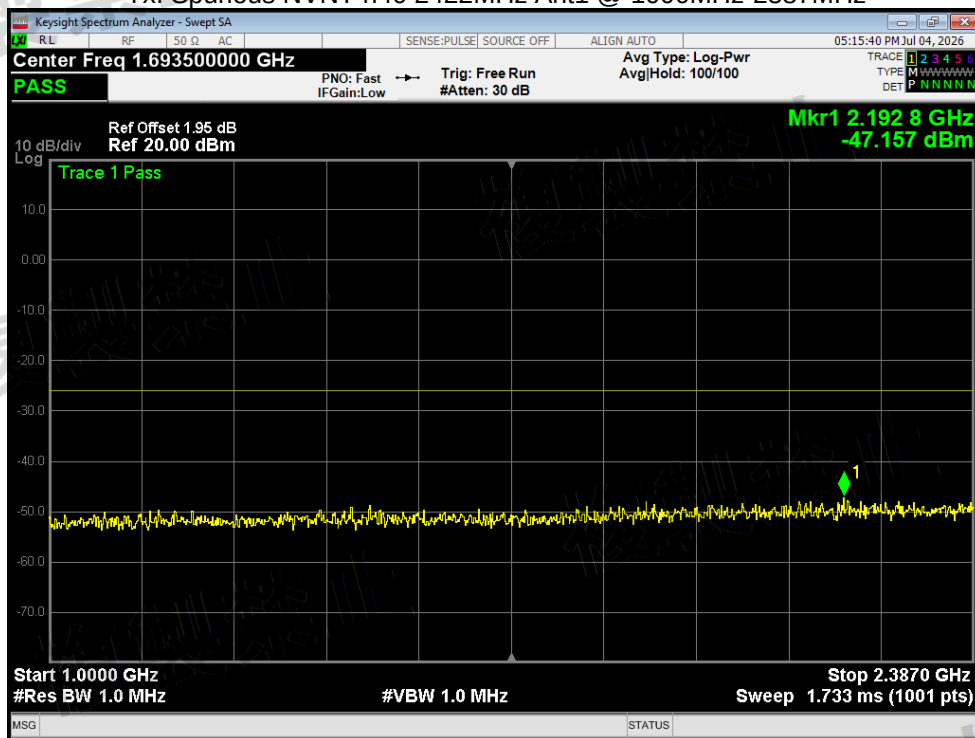


Tx. Spurious NVNT n40 2422MHz Ant1 @ 30MHz-1000MHz

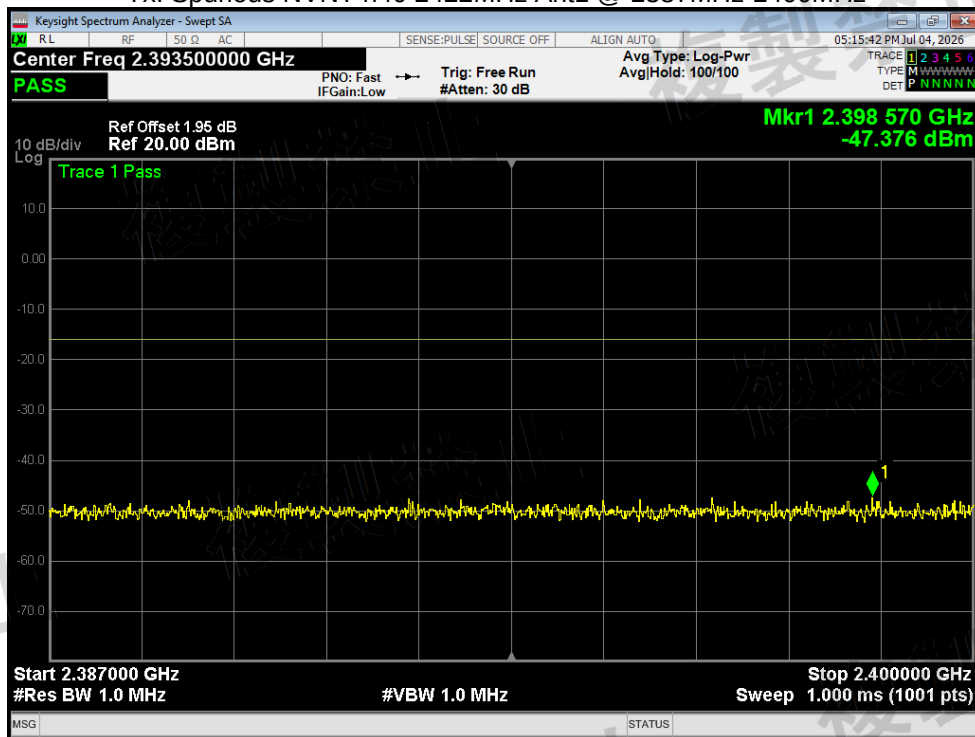




Tx. Spurious NVNT n40 2422MHz Ant1 @ 1000MHz-2387MHz

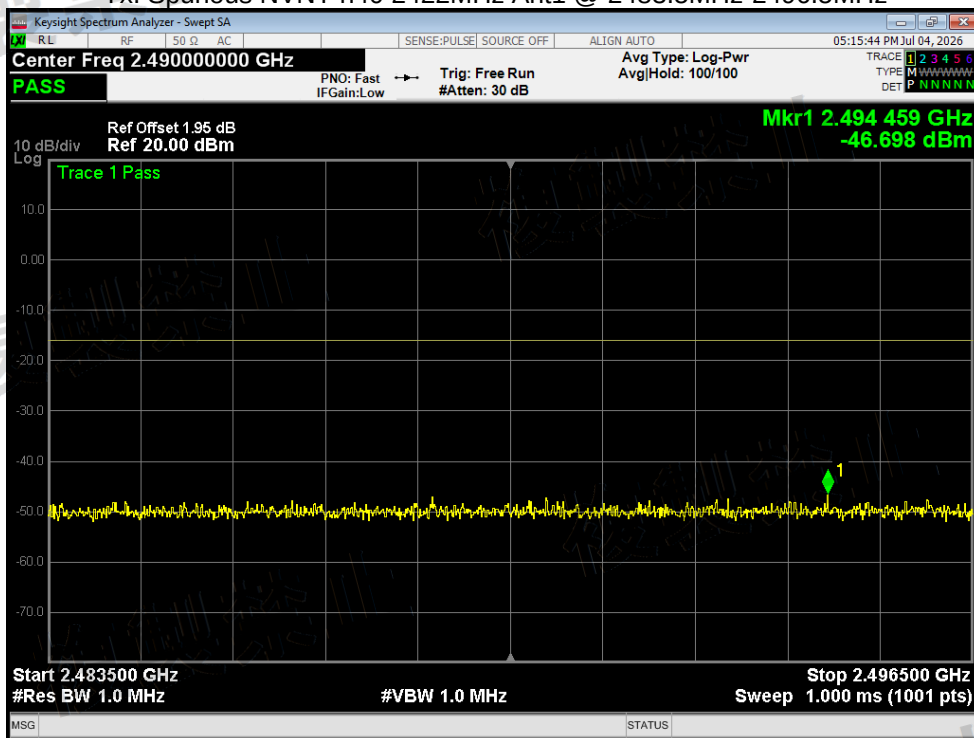


Tx. Spurious NVNT n40 2422MHz Ant1 @ 2387MHz-2400MHz

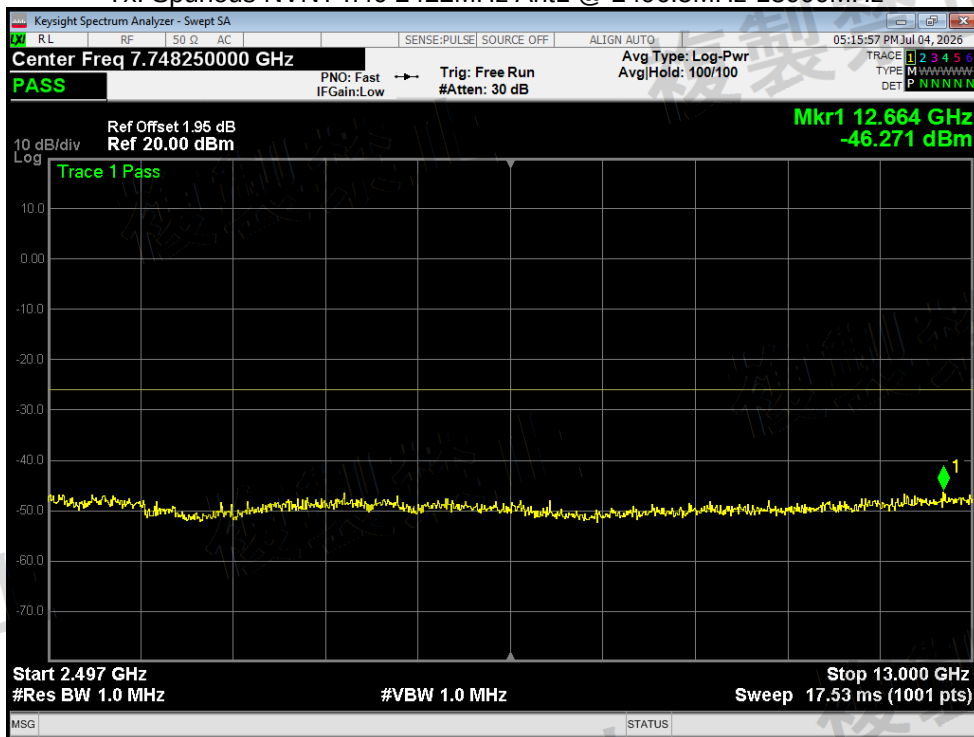




Tx. Spurious NVNT n40 2422MHz Ant1 @ 2483.5MHz-2496.5MHz

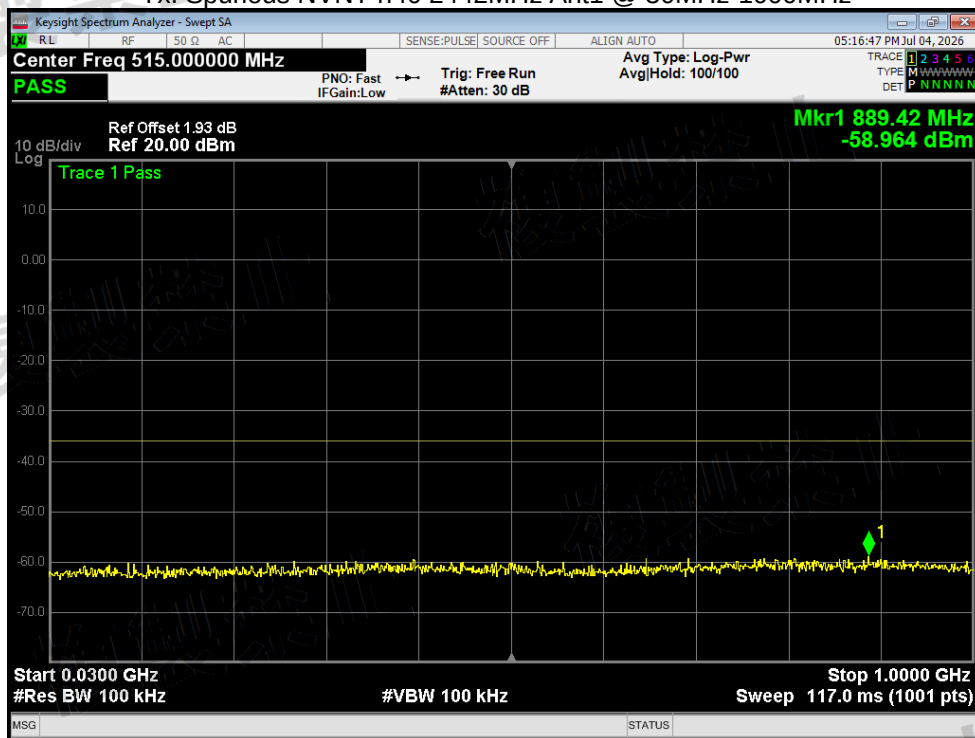


Tx. Spurious NVNT n40 2422MHz Ant1 @ 2496.5MHz-13000MHz

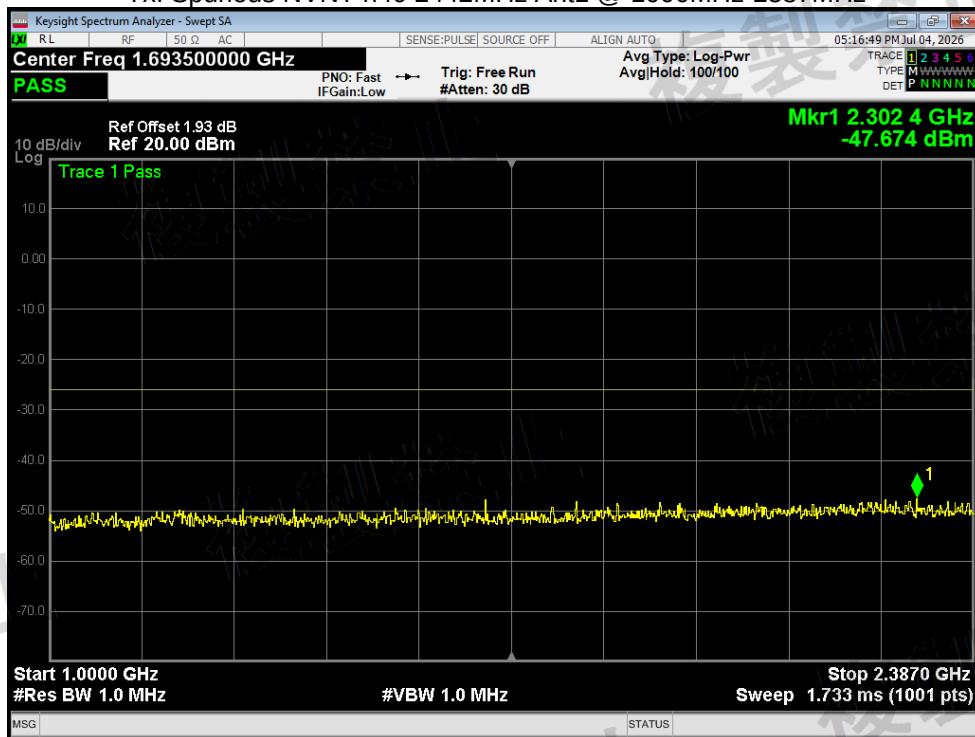




Tx. Spurious NVNT n40 2442MHz Ant1 @ 30MHz-1000MHz

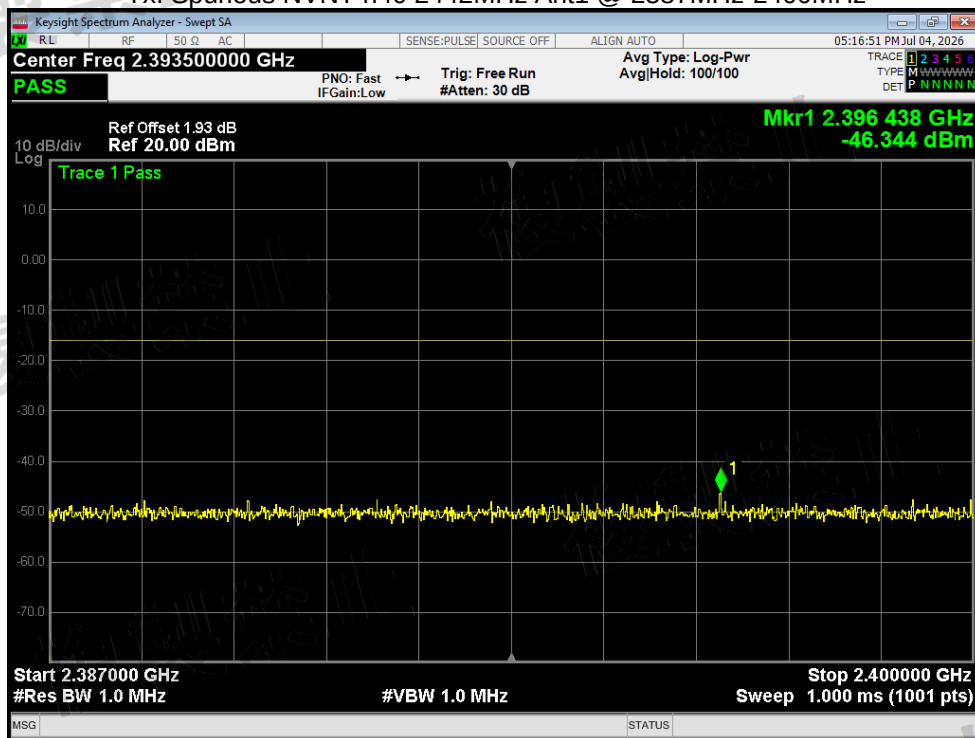


Tx. Spurious NVNT n40 2442MHz Ant1 @ 1000MHz-2387MHz

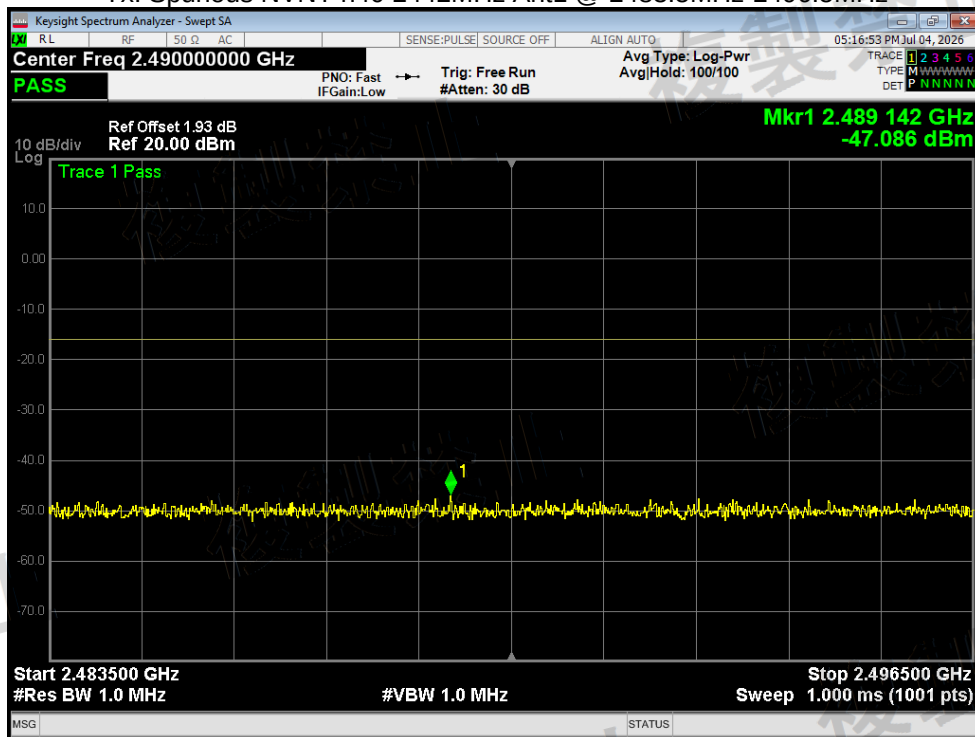




Tx. Spurious NVNT n40 2442MHz Ant1 @ 2387MHz-2400MHz

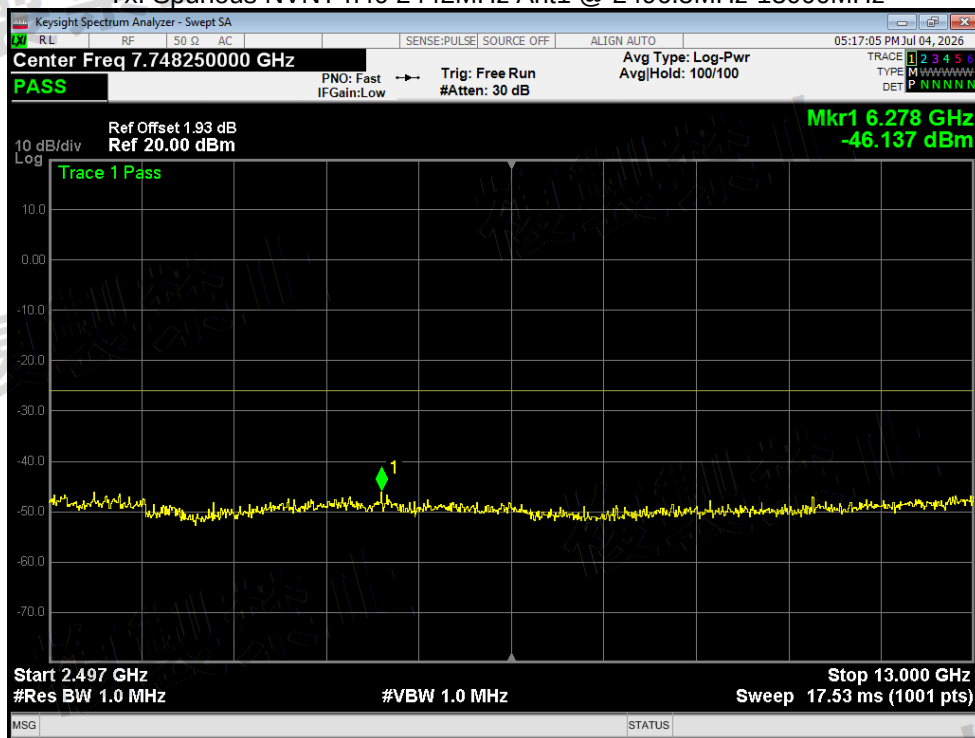


Tx. Spurious NVNT n40 2442MHz Ant1 @ 2483.5MHz-2496.5MHz

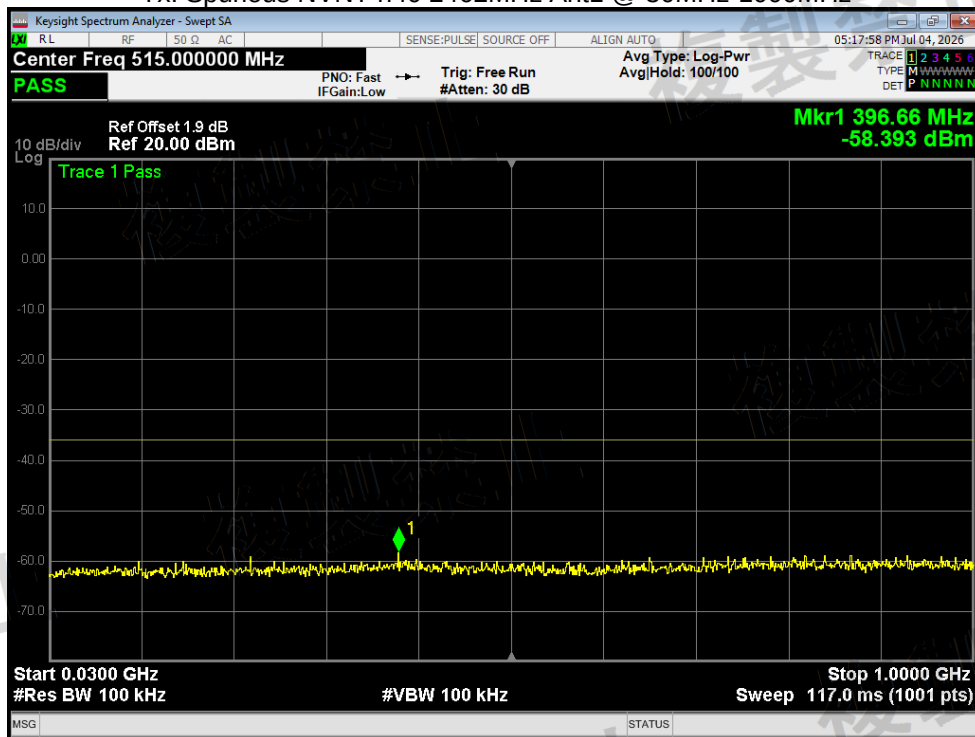




Tx. Spurious NVNT n40 2442MHz Ant1 @ 2496.5MHz-13000MHz

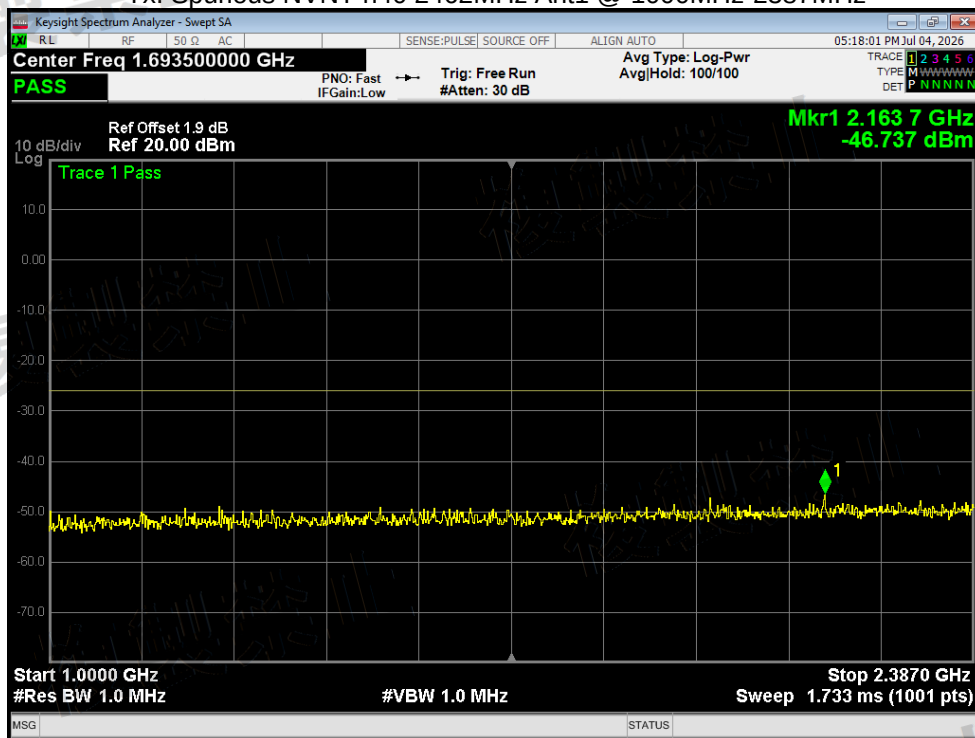


Tx. Spurious NVNT n40 2462MHz Ant1 @ 30MHz-1000MHz

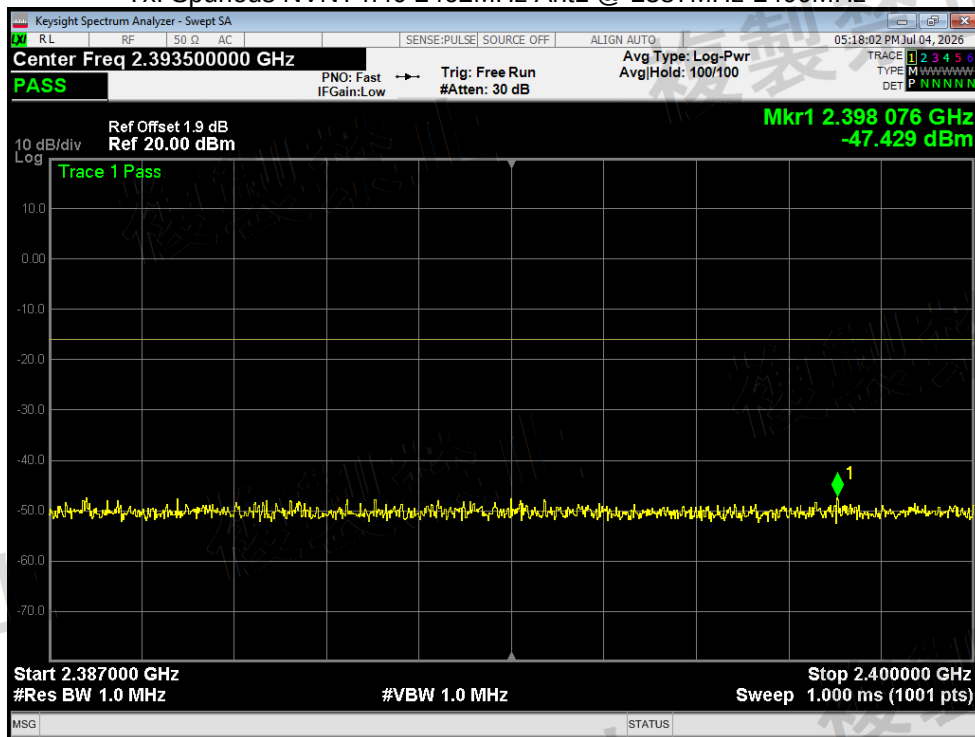




Tx. Spurious NVNT n40 2462MHz Ant1 @ 1000MHz-2387MHz

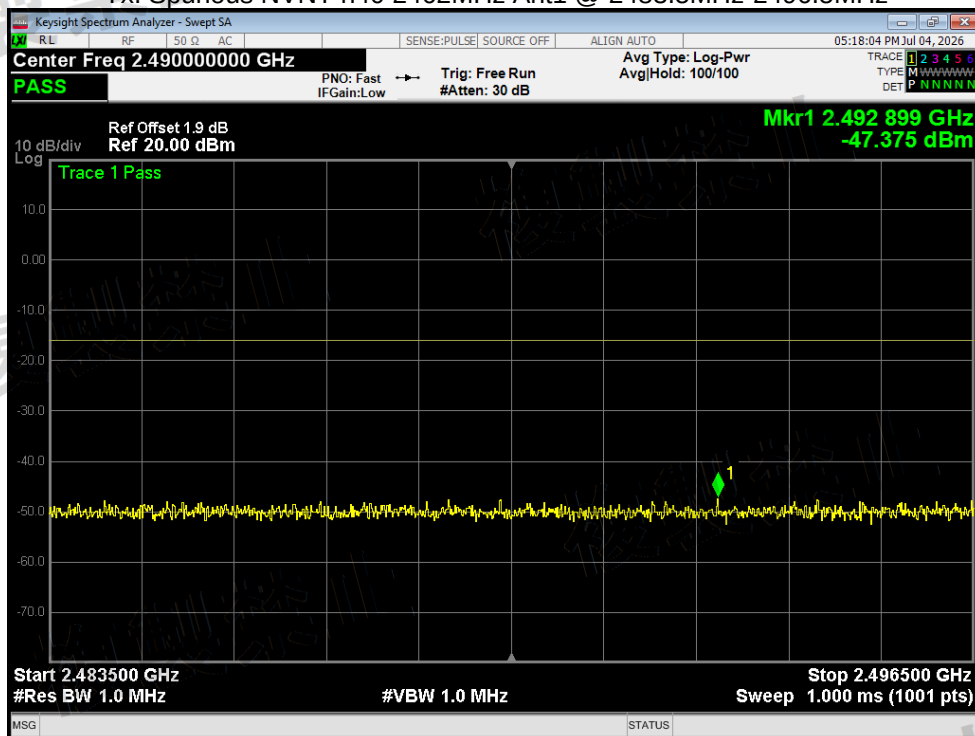


Tx. Spurious NVNT n40 2462MHz Ant1 @ 2387MHz-2400MHz

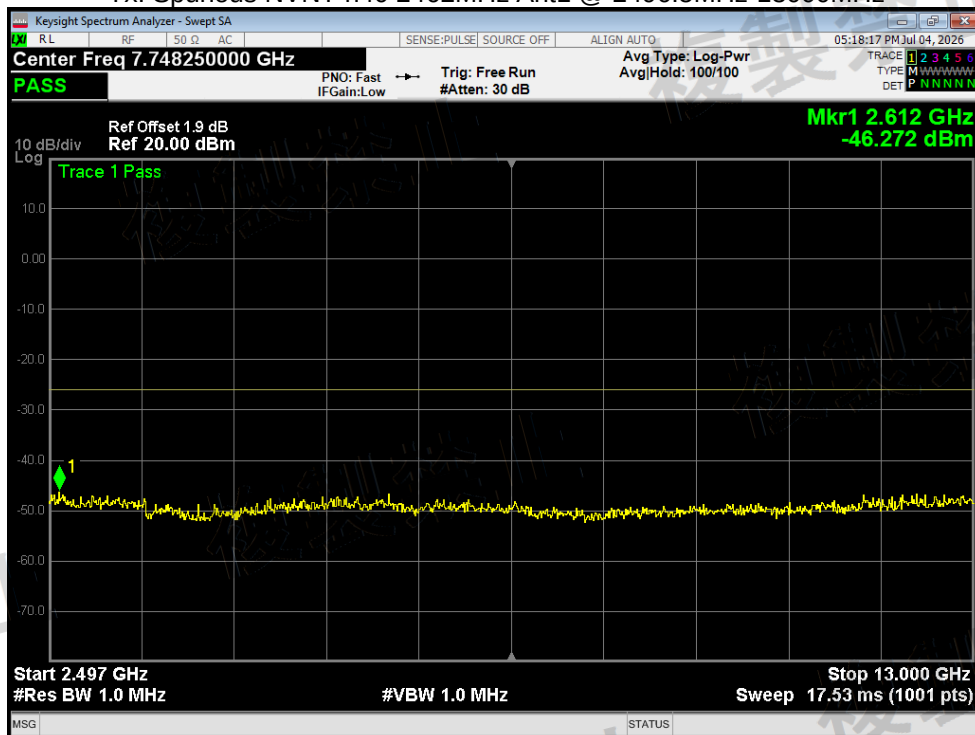




Tx. Spurious NVNT n40 2462MHz Ant1 @ 2483.5MHz-2496.5MHz



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

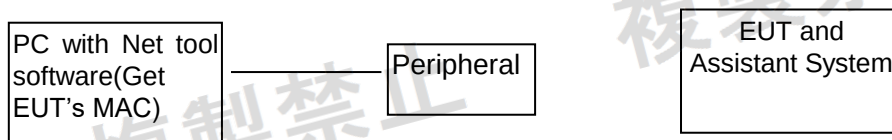


4.5 Interference prevention function

4.5.1 Limits

When conducting wireless communications that transmit data or other information" : A function that automatically sends or receives an identification code When performing radiolocation work: A function that allows you to distinguish between reflected waves of radio waves transmitted by your own station and radiowaves transmitted by other radio stations by detecting the modulation method and other characteristics of received radio waves. (However, if it also has the function of transmitting signals for data transmission, both functions shall be included)

4.5.2 Block Diagram of Test Setup



4.5.3 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.

4.5.4 Test Result

EUT:	Mini PC		
Temperature:	25.2°C	Humidity:	52%RH
MAC	F8:B5:4D:59:09:21		
Test result:	PASS		

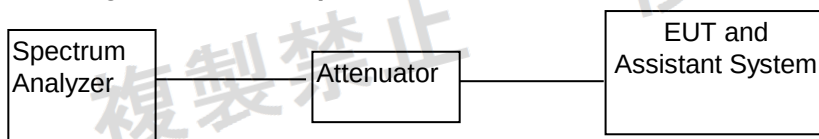
4.6 Secondary Radiated Emissions

4.6.1 Limits

Item	Limits
RX Spurious Emission:	$\leq 4\text{nW}$ (30MHz-1GHz)
	$\leq 20\text{nW}$ (1GHz-12.5GHz)

The limit on secondary emissions radiated from the receiving equipment within which the function of other radio equipment will not be impaired shall be, in terms of the power of a dummy antenna circuit that has the same electrical constant as the receiving antenna, 4 nW or less at a frequency below 1 GHz and 20 nW or less at a frequency of 1 GHz or higher as measured using the circuit.

4.6.2 Block diagram of test setup



4.6.3 Test Procedure

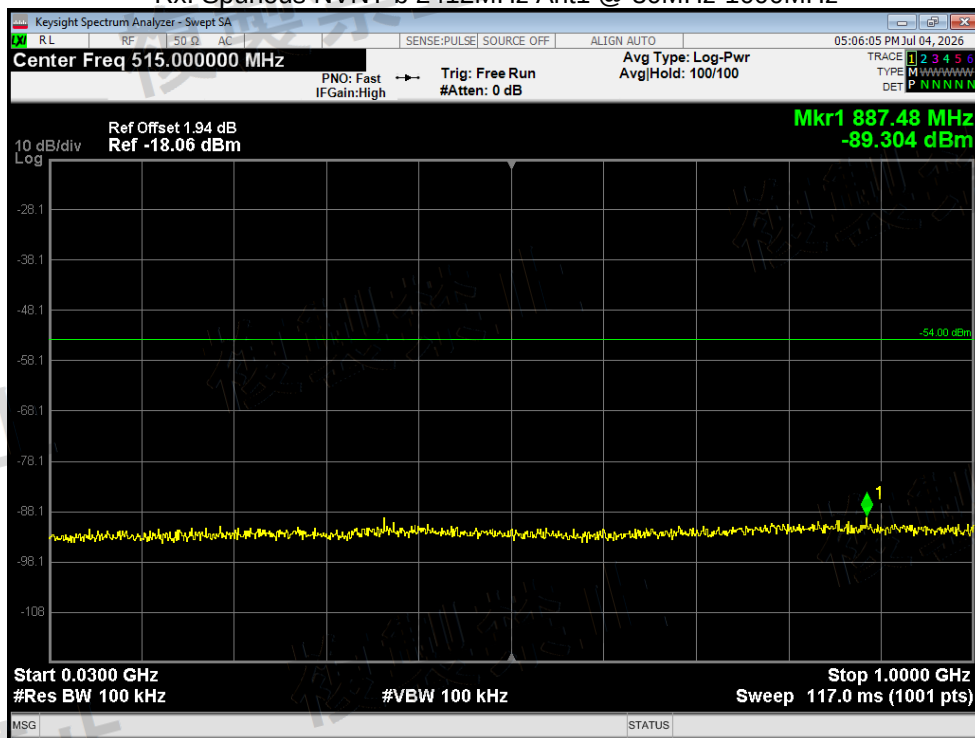
1. EUT have the continuous reception mode and fixed only one channelize.
2. Setting of SA is following as RB / VB: 100 kHz (below 1GHz emissions) / 1 MHz (above 1GHz emissions) /
AT: Auto / Ref: Auto / Sweep time: Auto / Sweep Mode: Continuous sweep / Detect mode: Positive peak / Trace mode: Max hold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

4.6.4 Test result



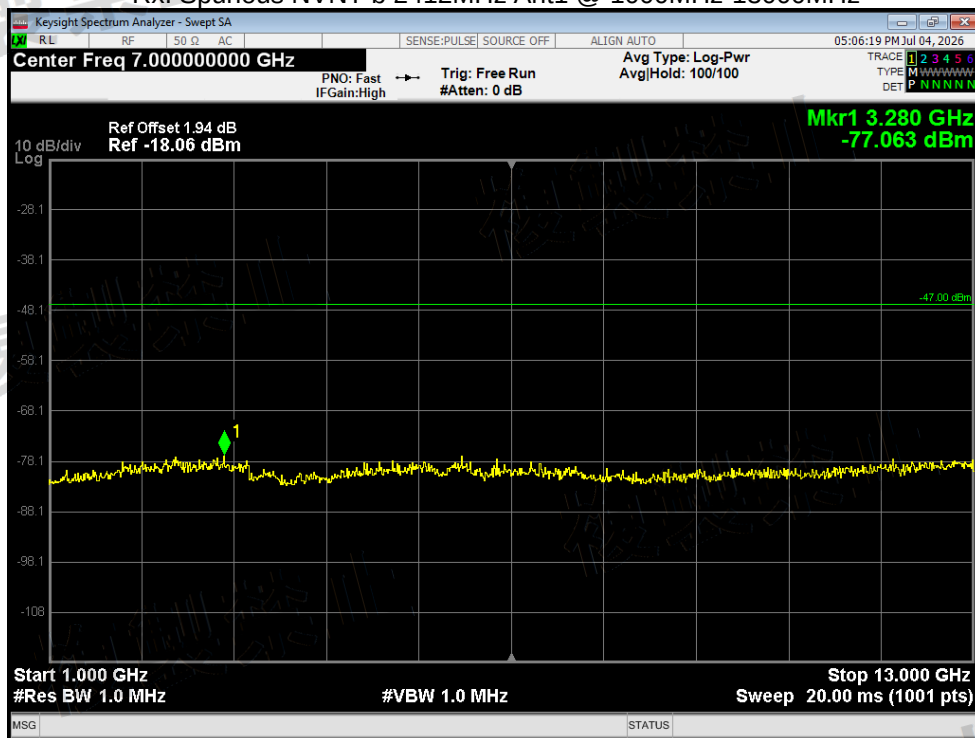
Mode	Frequency (MHz)	Range (MHz)	Emission Frequency (MHz)	Max Value (dBm)	Max Value (nW)	Limit (nW)	Verdict
b	2412	30-1000	887.48	-89.304	0.012	4	Pass
b	2412	1000-13000	3280	-77.063	0.020	20	Pass
b	2442	30-1000	419.94	-88.767	0.001	4	Pass
b	2442	1000-13000	6244	-77.086	0.020	20	Pass
b	2472	30-1000	893.3	-89.126	0.001	4	Pass
b	2472	1000-13000	5176	-76.077	0.247	20	Pass
g	2412	30-1000	803.09	-89.781	0.001	4	Pass
g	2412	1000-13000	5176	-76.445	0.023	20	Pass
g	2442	30-1000	810.85	-89.324	0.001	4	Pass
g	2442	1000-13000	12856	-76.839	0.021	20	Pass
g	2472	30-1000	811.82	-89.581	0.011	4	Pass
g	2472	1000-13000	2596	-76.802	0.021	20	Pass
n20	2412	30-1000	410.24	-89.239	0.001	4	Pass
n20	2412	1000-13000	12760	-76.745	0.021	20	Pass
n20	2442	30-1000	862.26	-89.149	0.001	4	Pass
n20	2442	1000-13000	12844	-76.728	0.212	20	Pass
n20	2472	30-1000	918.52	-89.067	0.001	4	Pass
n20	2472	1000-13000	5812	-76.758	0.021	20	Pass
n40	2422	30-1000	844.8	-89.179	0.001	4	Pass
n40	2422	1000-13000	5188	-73.76	0.042	20	Pass
n40	2442	30-1000	452.92	-88.993	0.013	4	Pass
n40	2442	1000-13000	2920	-76.663	0.022	20	Pass
n40	2462	30-1000	815.7	-89.669	0.001	4	Pass
n40	2462	1000-13000	12400	-76.157	0.024	20	Pass

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

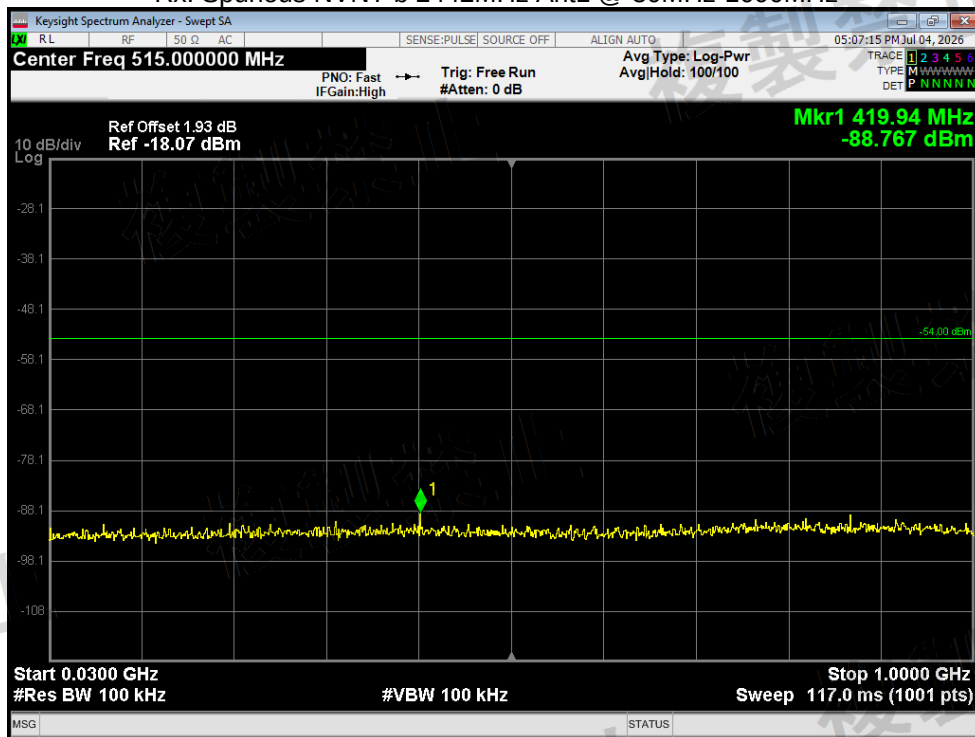




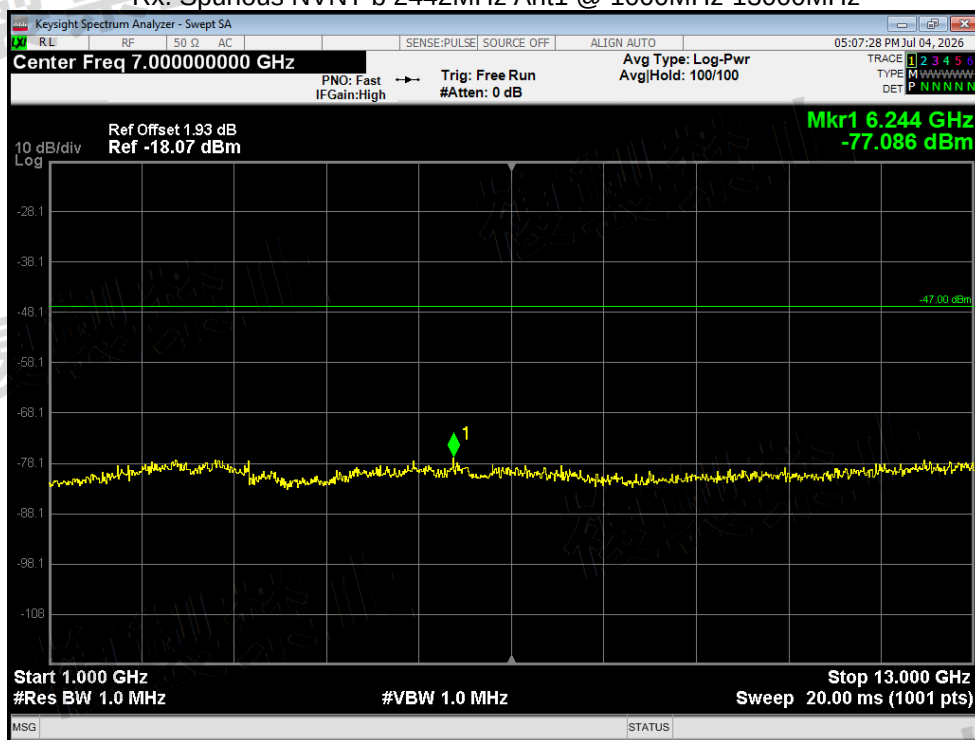
Rx. Spurious NVNT b 2412MHz Ant1 @ 1000MHz-13000MHz



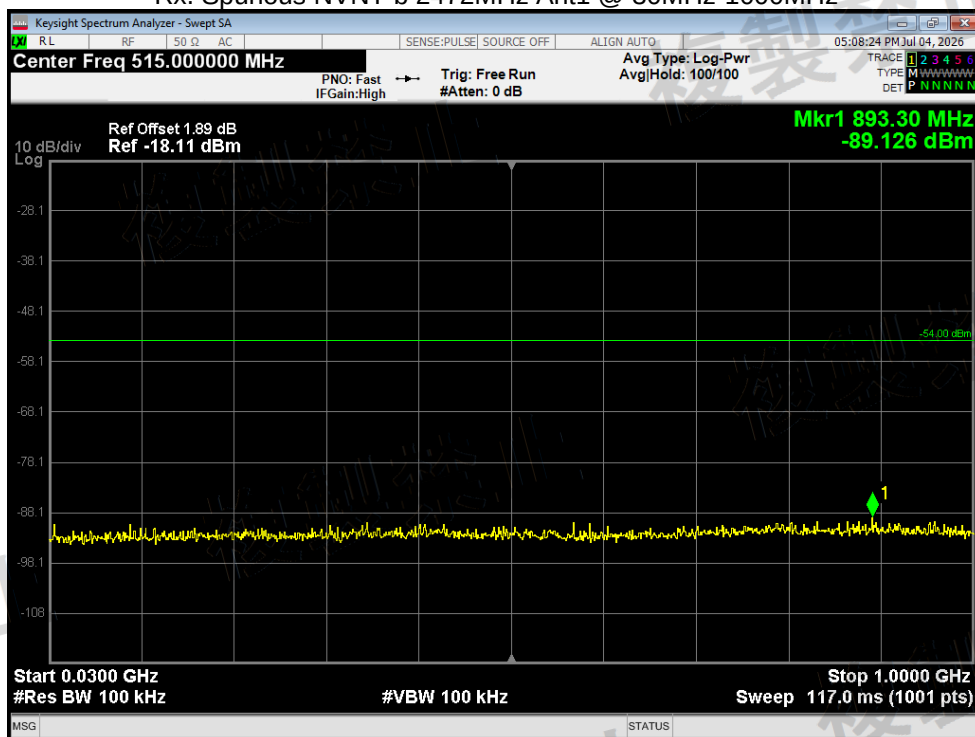
Rx. Spurious NVNT b 2442MHz Ant1 @ 30MHz-1000MHz



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

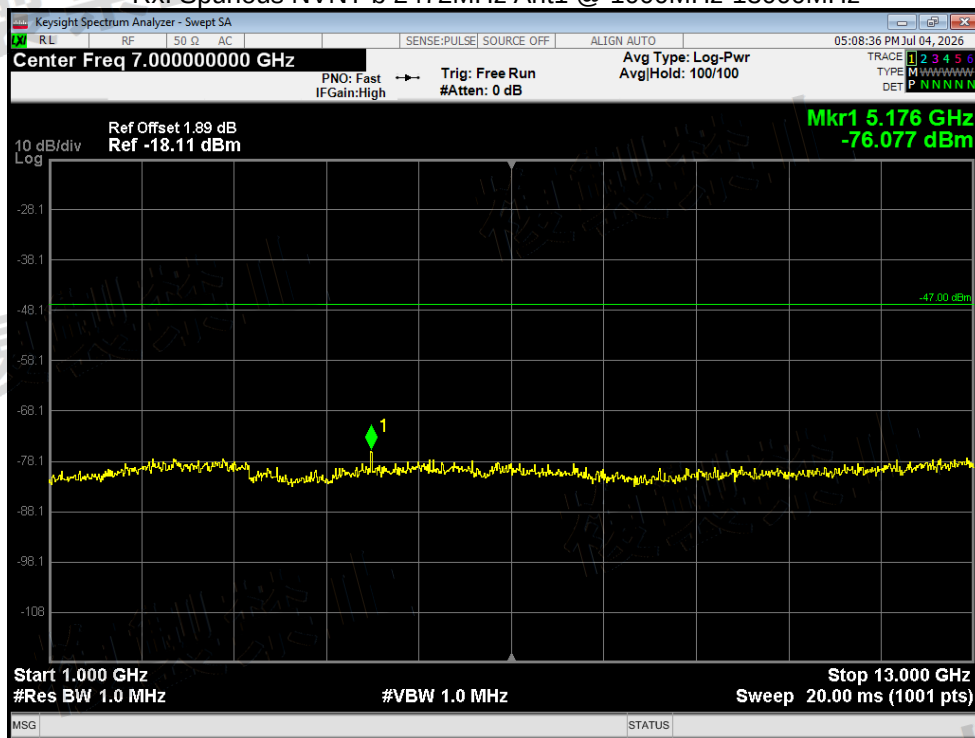


Rx. Spurious NVNT b 2472MHz Ant1 @ 30MHz-1000MHz

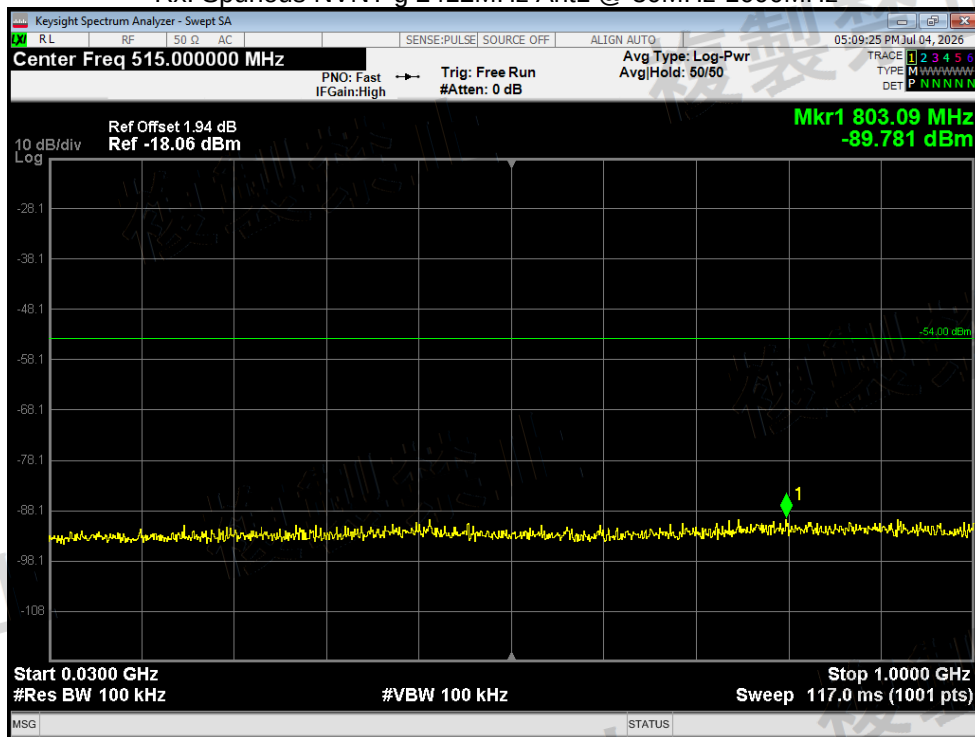




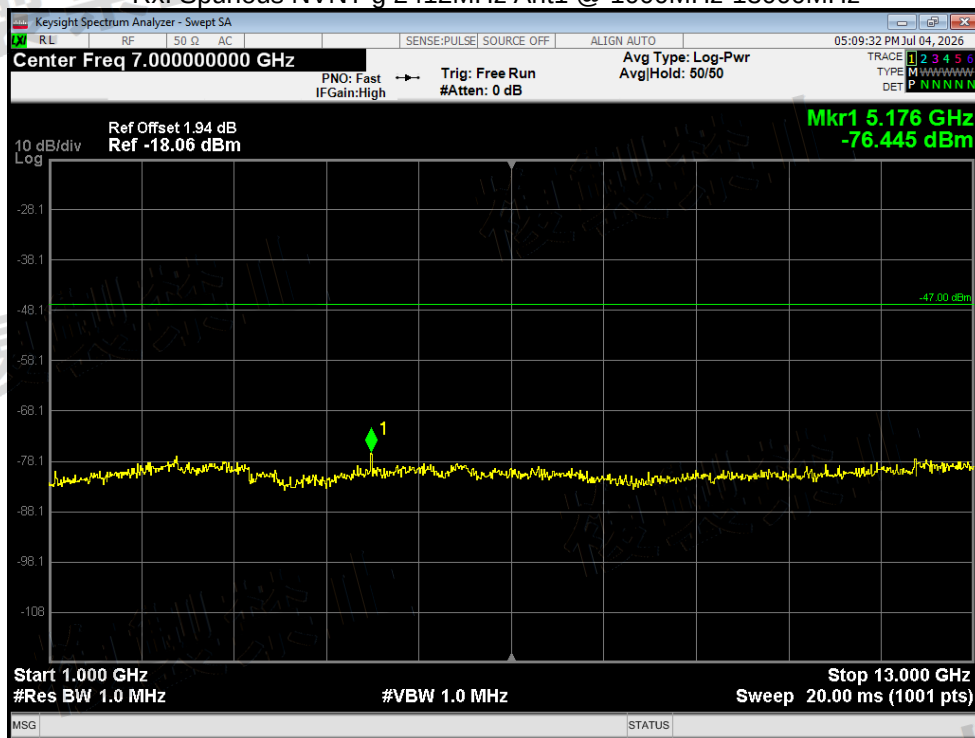
Rx. Spurious NVNT b 2472MHz Ant1 @ 1000MHz-13000MHz



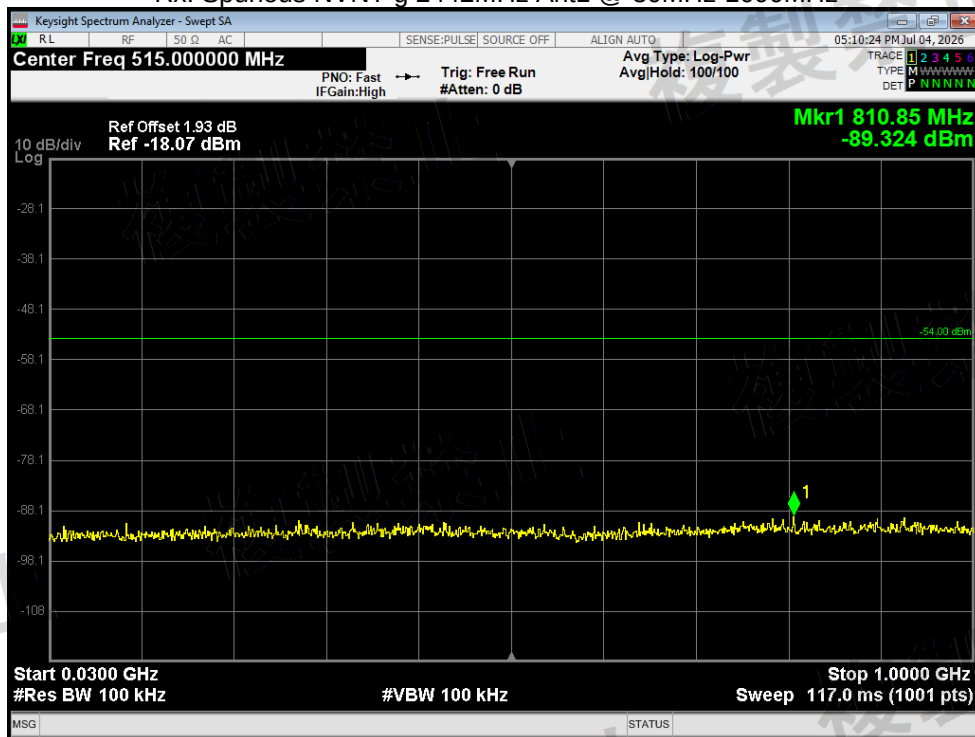
Rx. Spurious NVNT g 2412MHz Ant1 @ 30MHz-1000MHz



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

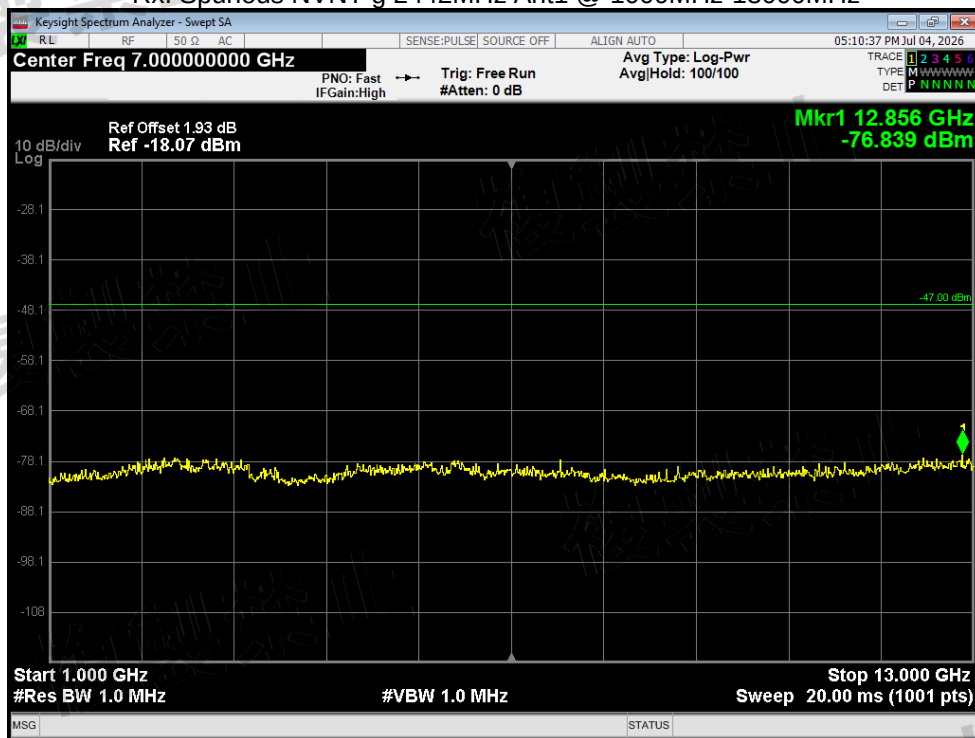


Rx. Spurious NVNT g 2442MHz Ant1 @ 30MHz-1000MHz

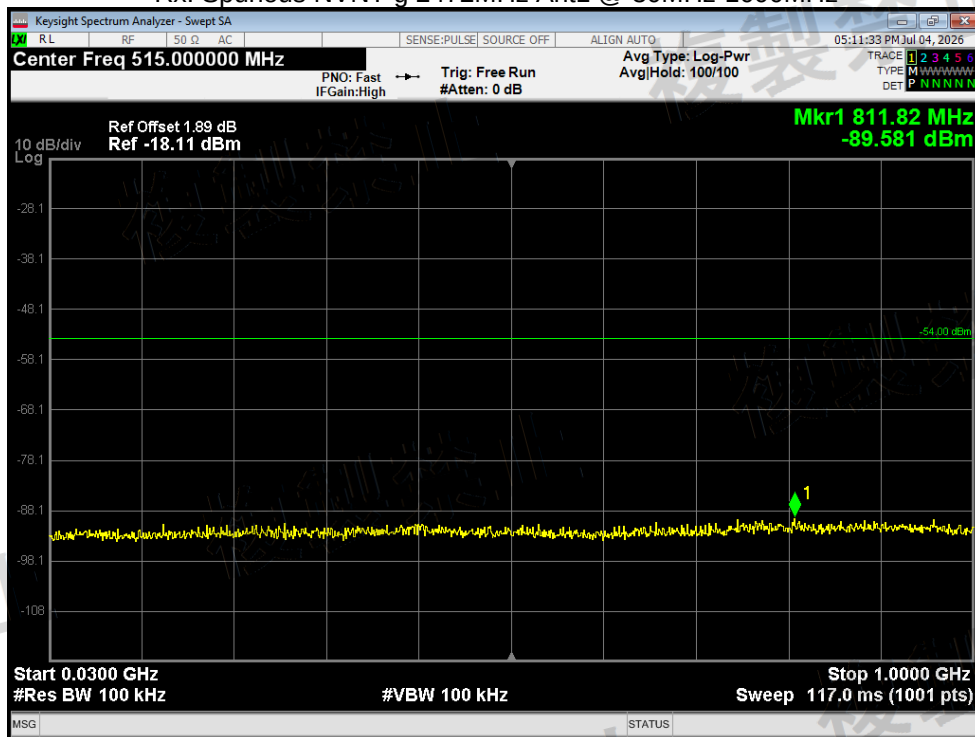




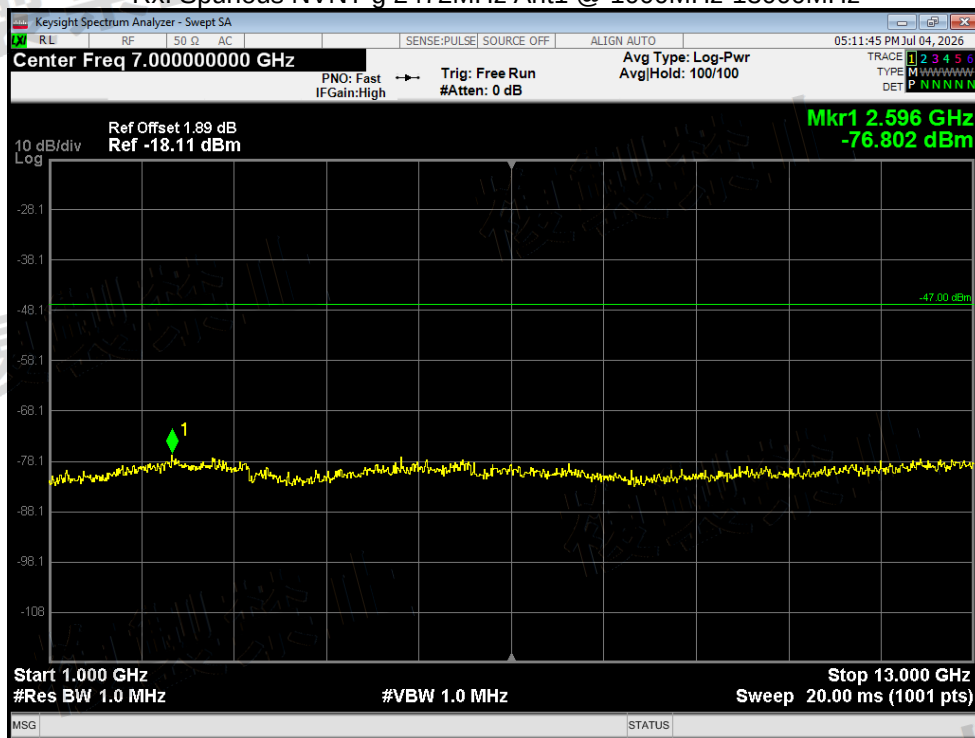
Rx. Spurious NVNT g 2442MHz Ant1 @ 1000MHz-13000MHz



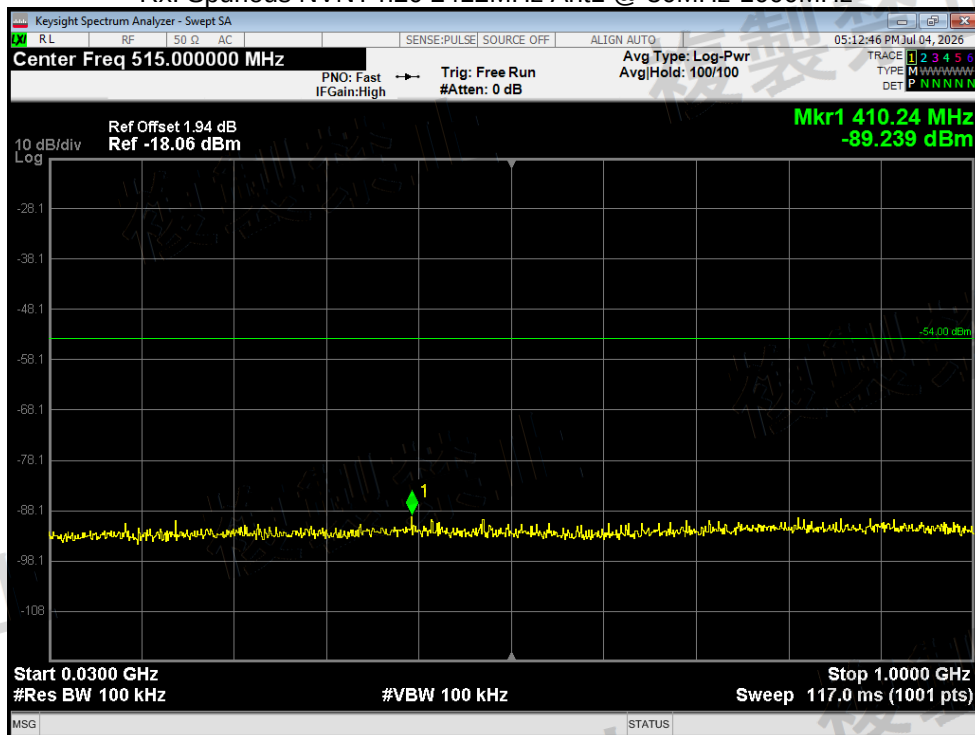
Rx. Spurious NVNT g 2472MHz Ant1 @ 30MHz-1000MHz



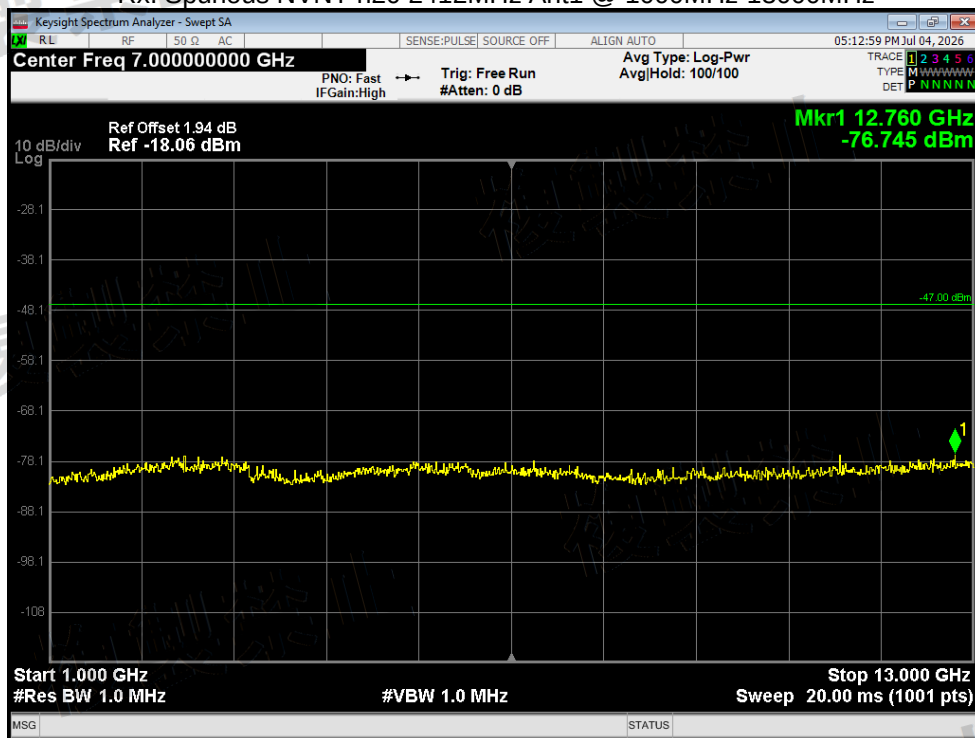
Rx. Spurious NVNT g 2472MHz Ant1 @ 1000MHz-13000MHz



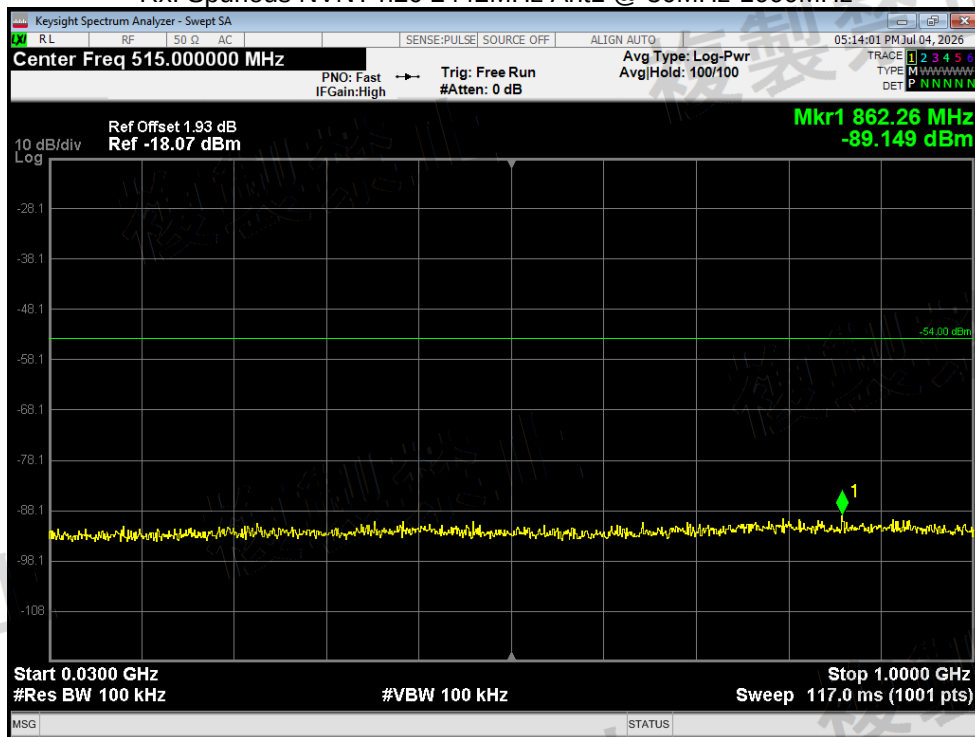
Rx. Spurious NVNT n20 2412MHz Ant1 @ 30MHz-1000MHz



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

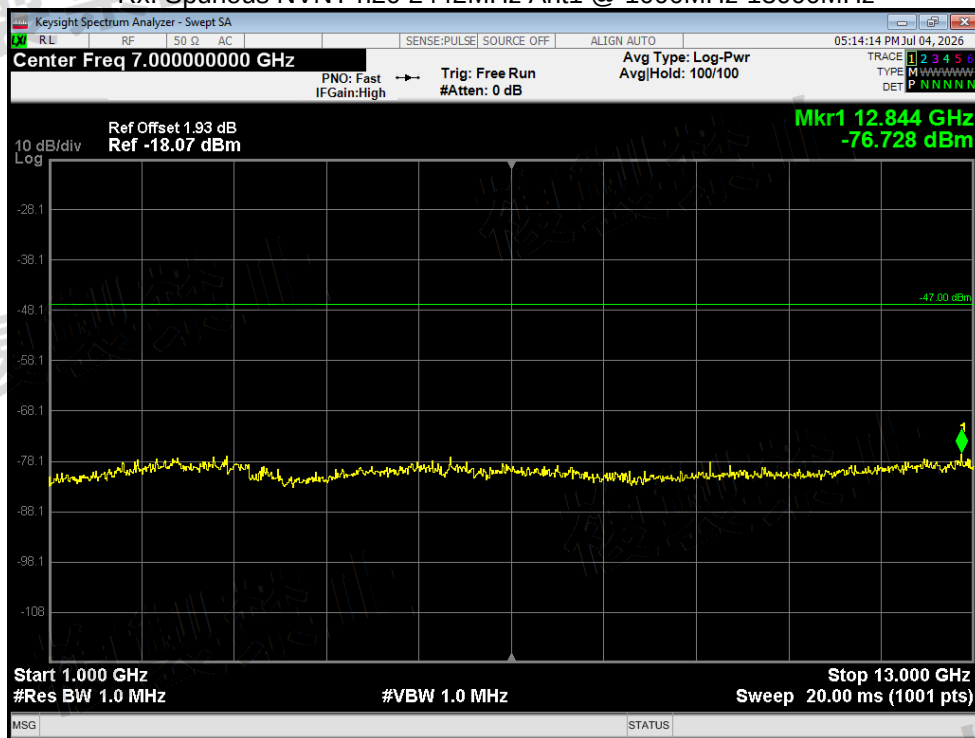


Rx. Spurious NVNT n20 2442MHz Ant1 @ 30MHz-1000MHz

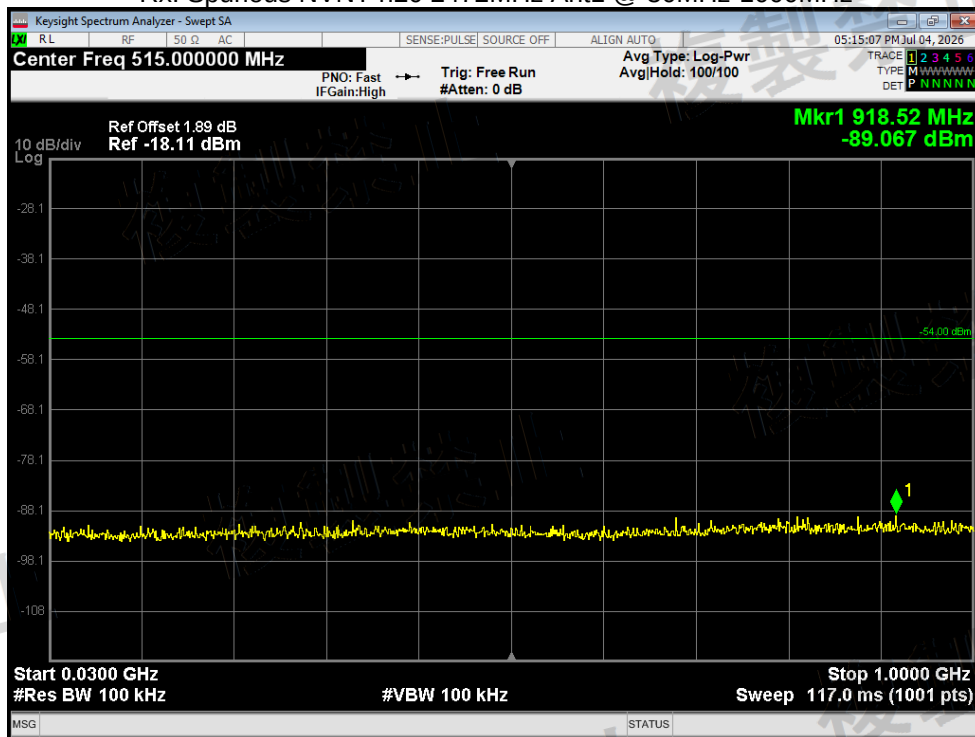




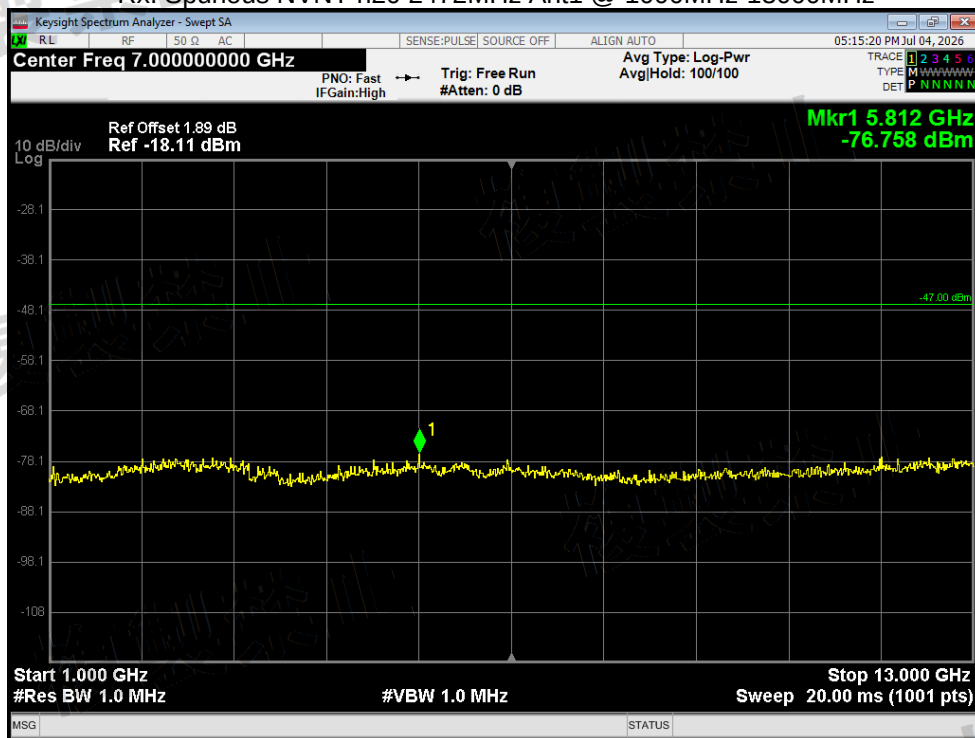
Rx. Spurious NVNT n20 2442MHz Ant1 @ 1000MHz-13000MHz



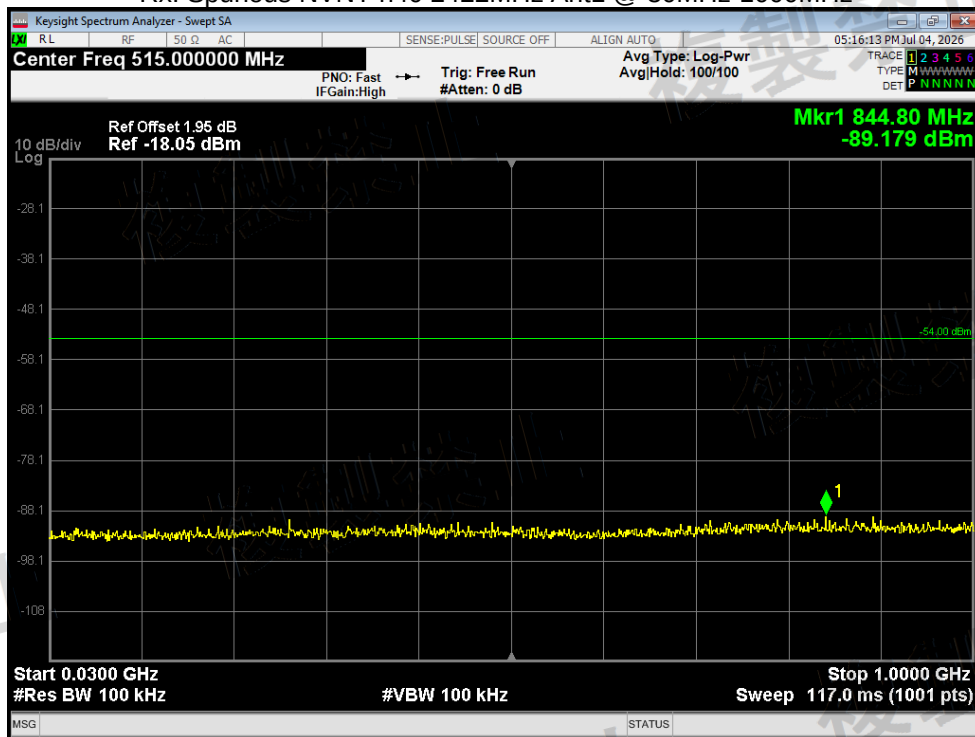
Rx. Spurious NVNT n20 2472MHz Ant1 @ 30MHz-1000MHz



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

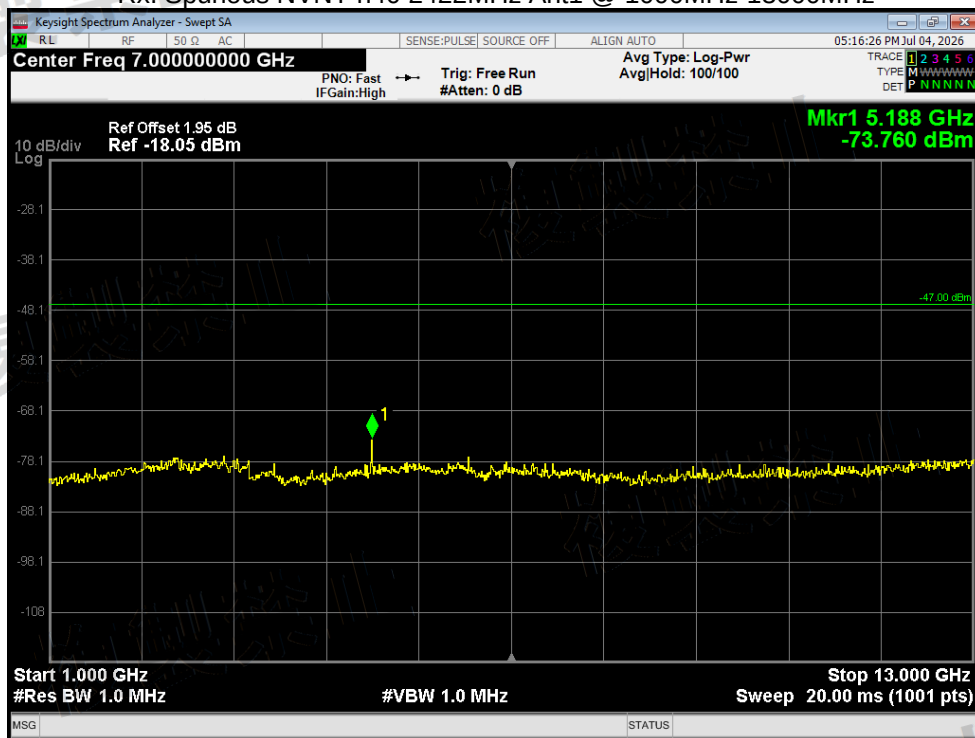


Rx. Spurious NVNT n40 2422MHz Ant1 @ 30MHz-1000MHz

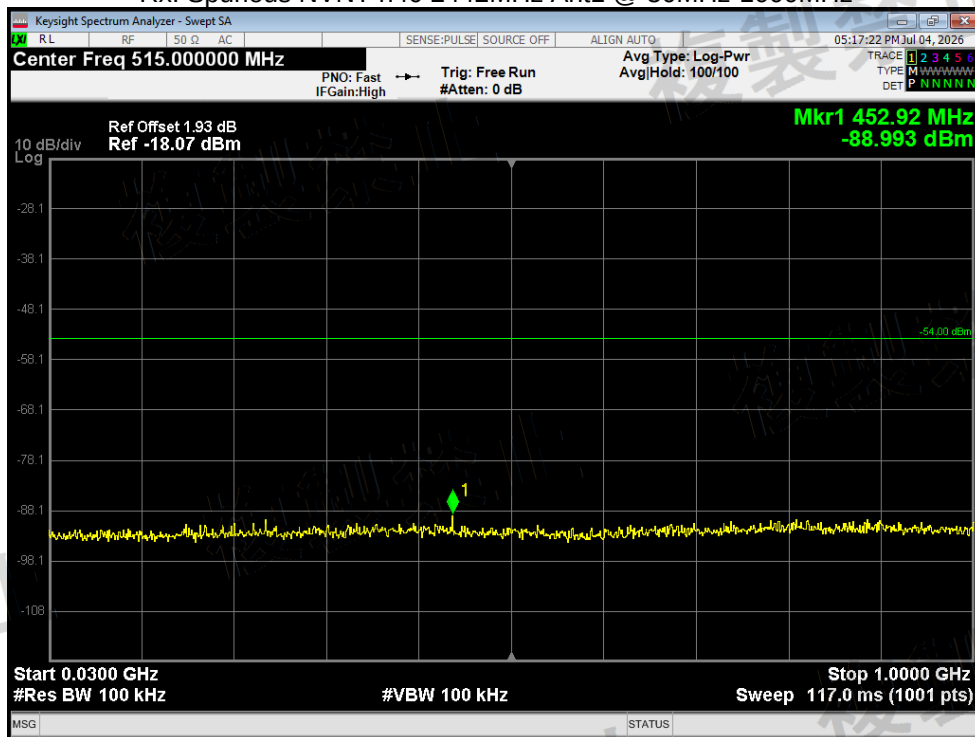




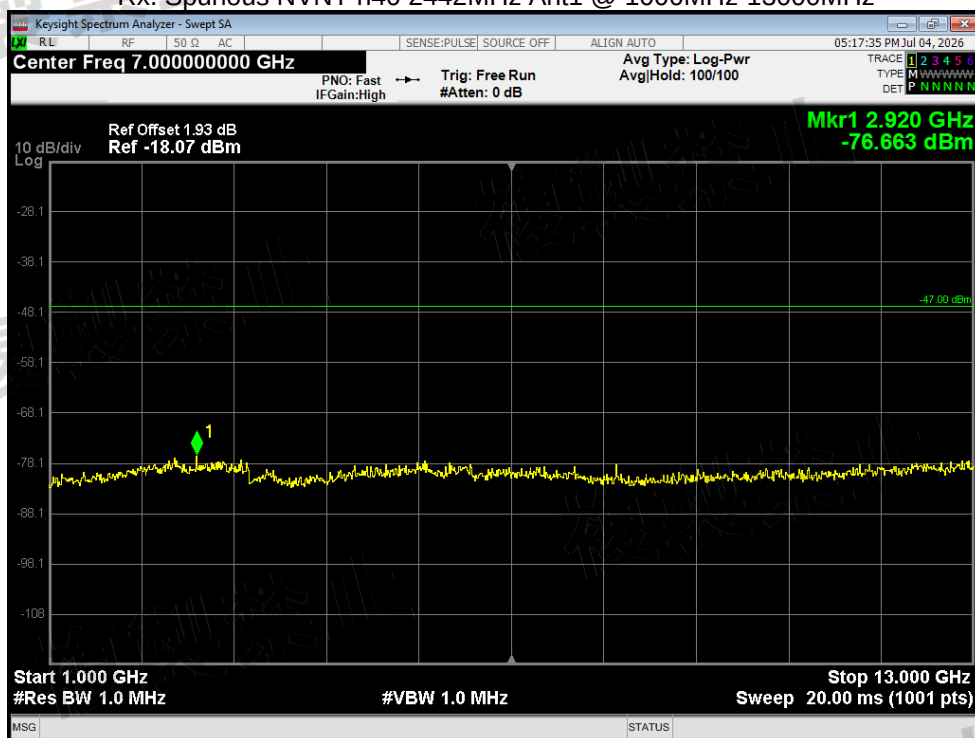
Rx. Spurious NVNT n40 2422MHz Ant1 @ 1000MHz-13000MHz



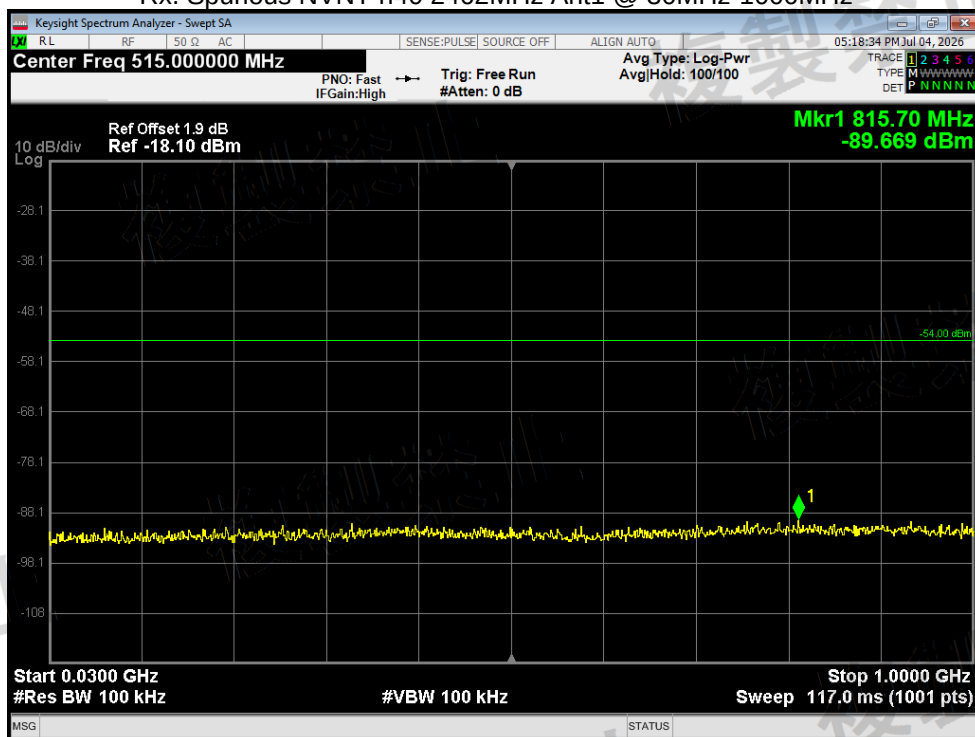
Rx. Spurious NVNT n40 2442MHz Ant1 @ 30MHz-1000MHz



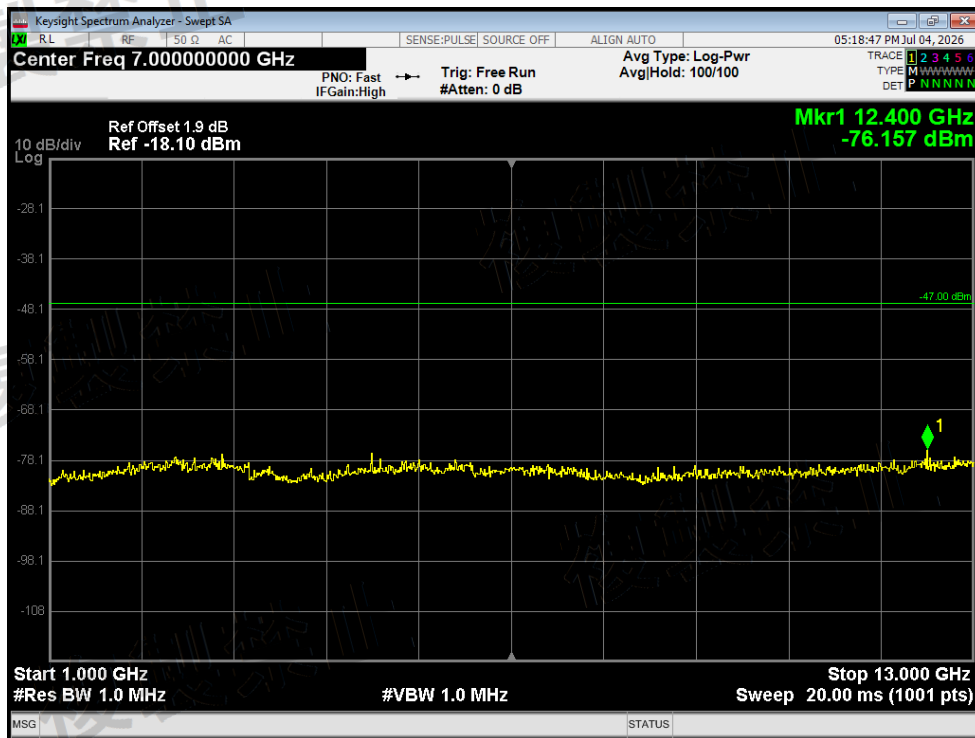
Rx. Spurious NVNT n40 2442MHz Ant1 @ 1000MHz-13000MHz



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



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



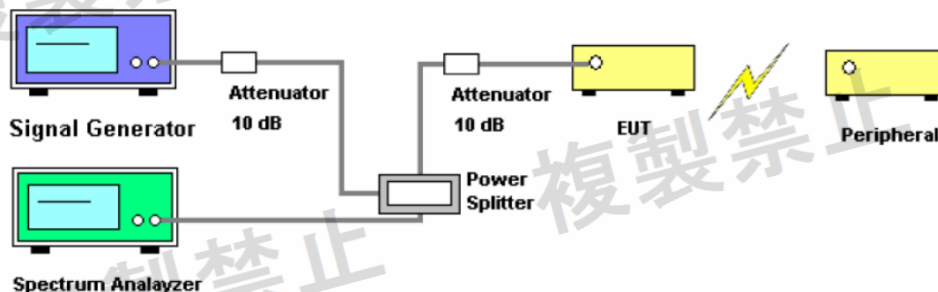
4.7 Carrier sensing function

4.7.1 Limit

EUT stop RF transmission signal after carrier inject to EUT.

Note: Only applicable to 26-40MHz OFDM system equipment.

4.7.2 Block diagram of test setup



4.7.3 Test Procedure

1. SG adjusted the frequency as same as the EUT transmitted signal and emitted the absence of modulation from SG and power level is $(on\ 22.79+G-20*\log(f)dBm)$ (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. Record EUT occupied Bandwidth.
6. SG RF signal on.
7. Record EUT occupied Bandwidth.
6. EUT shall be stop the transmitted any signal and SG RF signal off, the EUT will be continuous transmitted signal.

4.7.4 Test Result

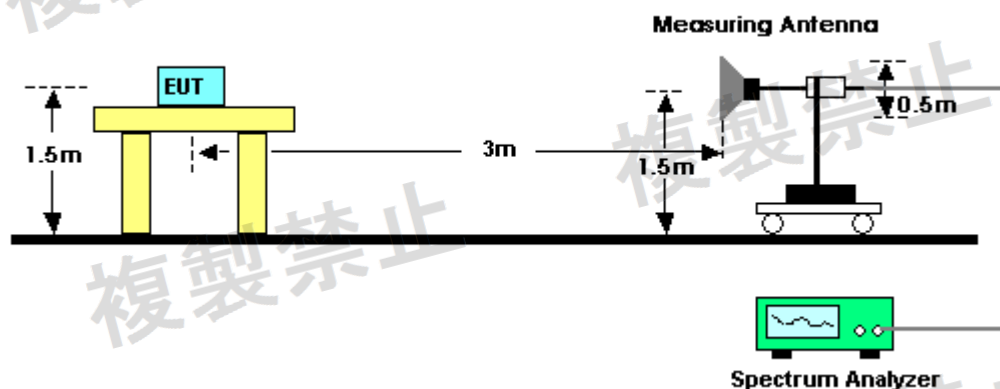
Mode	Frequency(MHz)	Before Interference Bandwidth(MHz)	Interference power	After Interference Bandwidth(MHz)	Result
802.11n40	2422	> 26	-41.34dBm	< 26	CONFORM
	2442	> 26	-41.42dBm	< 26	CONFORM
	2462	> 26	-41.48dBm	< 26	CONFORM

4.8 Antenna Absolute Gain Measurement

4.8.1 Limit

12.14dBi or less (when an EIRP is less than a limit, the shortage shall be compensated for
By the gain of the transmitting antenna)

4.8.2 Block diagram of test setup



4.8.3 Test Procedure

Step 1

Set the test equipment at test frequency, and in continuous transmitting mode or intermittent burst mode (constant frequency and constant burst time). Stop the spread.

Step 2

Set the height and direction of test equipment and measurement antenna approximately facing each other.

Step 3

In the frequency derived in D), change the height of the measurement antenna from the ground by $\pm 50\text{cm}$ with a central focus on the antenna of test equipment. Search the location that the power is maximum by adjusting the direction of measurement antenna. Set the indicator of spectrum analyzer at this point as "E".

Step 4

Remove the test equipment from the turntable, set the opening of substitution antenna at the same location as the opening of the test equipment, and receive by outputting radio wave of the same frequency from the standard signal generator for substitution.

Step 5

Adjust at the maximum power point, turning the substitution antenna.

Step 6

Change the height of the measurement antenna from the ground by $\pm 50\text{cm}$ with a central focus on the substitution antenna, and adjust the direction of measurement antenna to the location that the received power is maximum.

Step 7

Adjust output of standard signal generator and record the power P_s that is equal to "E". Or record P_s by counting backward from the difference with "E" as the close value to "E" (within $\pm 1\text{dB}$).

Step 8

EIRP is derived from the following calculating formula:



$$EIRP = G_s - L_F + P_s$$

GS; Absolute gain of substitution antenna (dBi).

LF; Loss of electric supply line between standard signal generator and substitution antenna (dB).

PS; Output of standard signal generator (dBm).

Step 9

Spectrum Analyzer as below:

Centre Frequency: centre frequency of the channel Under test.

Frequency Span: 0Hz

Resolution BW: 1MHz

Video BW: 3MHz

Detector: Peak.

Sweep mode: Continuous sweep

4.8.4 Test Result

Not applicable.

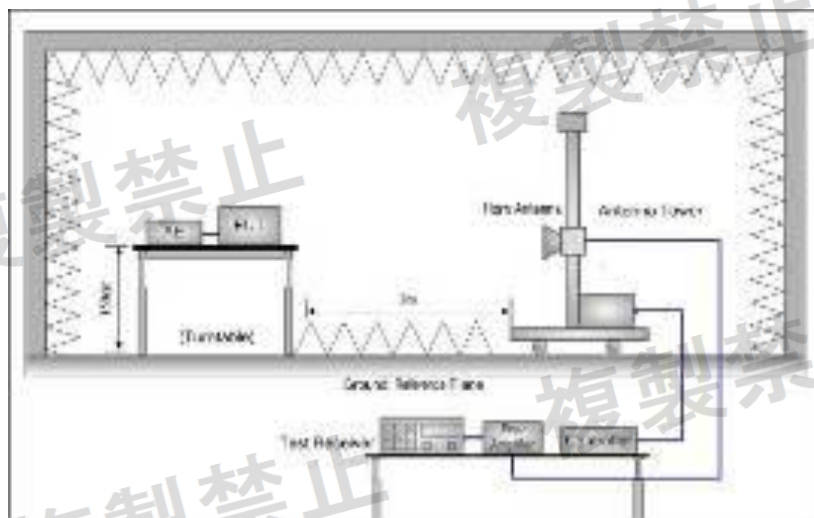
The EIRP less than 12.14dBm/MHz.

4.9 Half Power Beam Angle

4.9.1 Limit

Item	Limits
HPBA(degree)	$\leq 360/A$ $A = \text{EIRP} / (2.14\text{dBi} + \text{Antenna power(limited) of each modulation method\& OBW system})$ $1 \leq A$ (Shall be 1 when A is lower than 1)
Remark:	It is unnecessary to testing, when a EIRP is less than the variable EIRP limit of minimum.

4.9.2 Block diagram of test setup



4.9.3 Test Procedure

- 1 Set EUT and measuring antenna at the same height and roughly facing each other.
- 2 Set spectrum analyzer with RBW=1 MHz, VBW=1 KHz, Y scale=5 dB, Detector=Peak, Trace mode=Max Hold, 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.

4.9.4 Test Result

Not applicable.

The EIRP less than 12.14dBm/MHz.



5 Test Setup Photo

Reference to the file No.: ET-26063045SP for details.

6 EUT Constructional Details

Reference to the file No.: ET-26063045EP and ET-26063045IP for details.

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