

TEST REPORT

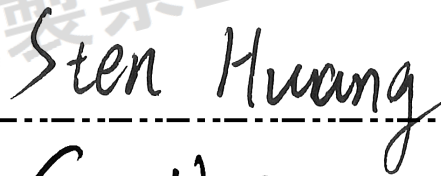
Applicant : Lien Trade Co., Ltd.
Address : Lien Trade company, Office Port307, 2-4-16 Uchihonmachi, Chuo Ward, Osaka, Japan
Manufacturer : Meta-Bounds Inc.
Address : 1st Floor, Building 6, No. 6 Jinyuan 1st Road, Tangjiawan Town, Xiangzhou District, Zhuhai City, Guangdong Province, China
Product Name : Brain-Glass
Model Number : LT-BG2000M01
Trademark : N/A
Date of Receipt : May 19, 2025
Test Date : May 19, 2025 to May 23, 2025
Date of Report : Jun. 10, 2025

Test Result : This device described above has been tested by BKC, and the test results show that the equipment under test (EUT) is in compliance with the Article 2 Paragraph 1 of Item 19 requirements. And it is applicable only to the tested sample identified in the report.

Test Procedure Used:

Standards : Article 2 Paragraph 1 of Item 19
MIC Notice No.88 Appendix No.43

Prepared by(Test Engineer):
Sten Huang



Approved(Manager):
Casey Wang



Approved(Manager):
Jerry Liao



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1. General Information

1.1. Description of Device (EUT)

EUT Name : Brain-Glass
Model No. : LT-BG2000M01
Model Difference : /
Power supply : DC 3.87V
Power Adapter : /
Operation frequency : 2.402-2.480GHz
Max. RF output power: : 2mw/Mhz
Modulation : GFSK, Pi/4 DQPSK, 8DPSK
Antenna Type : Inside Antenna, Maximum Gain is -0.91dBi
Intend use environment : Residential, commercial and light industrial environment
Adapter Information : N/A
Software version : V1.0
Hardware version : V1.0

1.2. Channel List

BT mode

Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)
0	2402	1	2403	2	2404	3	2405
4	2406	5	2407	6	2408	7	2409
8	2410	9	2411	10	2412	11	2413
12	2414	13	2415	14	2416	15	2417
16	2418	17	2419	18	2420	19	2421
20	2422	21	2423	22	2424	23	2425
24	2426	25	2427	26	2428	27	2429
28	2430	29	2431	30	2432	31	2433
32	2434	33	2435	34	2436	35	2437
36	2438	37	2439	38	2440	39	2441
40	2442	41	2443	42	2444	43	2445
44	2446	45	2447	46	2448	47	2449
48	2450	49	2451	50	2452	51	2453
52	2454	53	2455	54	2456	55	2457
56	2458	57	2459	58	2460	59	2461
60	2462	61	2463	62	2464	63	2465
64	2466	65	2467	66	2468	67	2469
68	2470	69	2471	70	2472	71	2473
72	2474	73	2475	74	2476	75	2477
76	2478	77	2479	78	2480	-	-

1.3. Summary of test result

RF PART		
Test Items	Test Requirement	Result
Antenna Power and Antenna Power Tolerance	Article 2 Paragraph 1 of Item 19	PASS
Frequency Tolerance	Article 2 Paragraph 1 of Item 19	PASS
Transmission Rate	Article 2 Paragraph 1 of Item 19	PASS
Occupied Frequency Bandwidth	Article 2 Paragraph 1 of Item 19	PASS
Spread Bandwidth	Article 2 Paragraph 1 of Item 19	PASS
Process Gain	Article 2 Paragraph 1 of Item 19	PASS
Number of Carriers	Article 2 Paragraph 1 of Item 19	N/A
Dwell Time	Article 2 Paragraph 1 of Item 19	PASS
Spurious emission intensity	Article 2 Paragraph 1 of Item 19	PASS
Half-power beam width	Article 2 Paragraph 1 of Item 19	Note1
Secondary Radiated Emissions	Article 2 Paragraph 1 of Item 19	PASS
Interference prevention function	Article 2 Paragraph 1 of Item 19	PASS
Remark: N/A is an abbreviation for Not Applicable. Note1 means the Max EIRP Power(-0.54dBm/MHz) is less than 6.91dBm/MHz, , the test is not applicable.		

1.4. Test mode

The special RF test software was used to control EUT work in Continuous Bluetooth TX mode, and select test channel, wireless mode.

Test mode	Low channel	Middle channel	High channel
GFSK TX	2402MHz	2441MHz	2480MHz
GFSK RX	2402MHz	2441MHz	2480MHz
Pi/4DQPSK TX	2402MHz	2441MHz	2480MHz
Pi/4DQPSK RX	2402MHz	2441MHz	2480MHz
8DPSK TX	2402MHz	2441MHz	2480MHz
8DPSK RX	2402MHz	2441MHz	2480MHz

Test mode	channel	/	/
GFSK TX	Hopping	/	/
Pi/4DQPSK TX	Hopping	/	/
8DPSK TX	Hopping	/	/
Note: Only the worst Data DH5/2DH5/3DH5 Record in the report			

1.5. Test Conditions

Supply Voltage			
	Input Voltage (Vac)	Voltage at the input of the RF Circuit (Vdc)	Tolerance (%)
Normal	3.87	3.3	
+10%	4.26	3.3	
-10%	3.48	3.3	
Others			
Temperature (° C)		22.5	
Relative humidity		51%.	
ATM Pressure:		1019 mbar	
Note 1: When the input voltage is reduced or increased by 10%, the regulator voltage changes of less than 1%. So the following test items are conducted in the normal voltage.			

1.6. Measurement Uncertainty (95% confidence levels, k=2)

Item	MU	Remark
Uncertainty for radio frequency	1×10^{-9}	
Uncertainty for conducted RF Power	0.65dB	
Uncertainty for temperature	0.6°C	
Uncertainty for humidity	1%	

1.7. Special Accessories and Auxiliary Equipment

Description	Manufacturer	Model No.	Hardware Version	Software Version
/	/	/	/	/

1.8. Test Facility

Site Description	
Name of Firm	: Shenzhen BKC Testing Co., Ltd.
Site Location	: Room103, 1/F, Huaya Building, Huaya Industrial Park, Yousong Community, Longhua Subdistrict, Longhua District, Shenzhen, Guangdong, China

1.9. Test Equipment

Radiated Test Site(Below 1G and Above 1G)

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Antenna	Schwarzbeck	VULB 9168	01321	Mar. 19. 2028
2	EMI Test Receiver	R&S	ESRP	101478	Mar. 09. 2026
3	Preamplifier	HP	8447D	2727A05345	Mar. 09. 2026
4	Double Ridged Broadband	SCHWARZBECK	BBHA 9120D	02621	Mar. 19. 2028
5	Preamplifier	Schwarzbeck	BBV 9718D	00041	Mar. 09. 2026
6	Rf cables	HUBER+SUHNER	8M-RE	N/A	Mar. 09. 2026
7	Rf cables	HUBER+SUHNER	1.5M-RE	N/A	Mar. 09. 2026
8	Rf cables	HUBER+SUHNER	1.5M-AP-RE	N/A	Mar. 09. 2026
9	Loop antenna	TESEQ	HLA6121	58357	Mar. 09. 2026
10	Spectrum analyzer	R&S	200061	200061	Mar. 09. 2026
11	Double Ridged Broadband Horn Antenna	COM-POWER	AH-1840	10100009	Mar. 09. 2026
12	Preamplifier	COM-POWER	AH-1840	10100009	Mar. 09. 2026

RF Test Site

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum	Agilent	N9020A	MY50510311	Mar. 10. 2026
2	Vector source	Agilent	N5182A	MY47420223	Mar. 10. 2026
3	All instrument	Rohde & Schwarz	CMW 500	101131	Mar. 10. 2026
4	control unit	MW	MW100-RFCB	MW200411BK-34	Mar. 10. 2026
5	Testing software	MW	MTS 8310	/	/
6	Spectrum analyzer	R&S	200061	200061	Mar. 10. 2026

Test software information

Software name/version	HA-PC Link Plus/3.04
Software name/version	EMI Testing software/EMEC-3A1+

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

(b) Correction conducted pursuant to the provisions of Article 135 or Article 144 of the Measurement Act (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 (1).

(d) Calibration, etc. conducted by using measuring instruments and other equipment listed in the right column of appended table No. 3, which shall have been given any type of calibration, etc. listed above from (a) to (C) From JRL Article 24-2, paragraph 4, Item 2

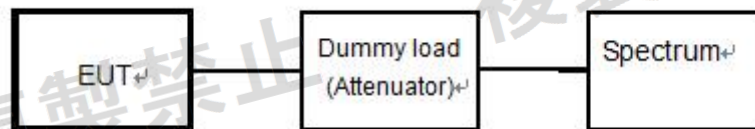
2. Frequency Tolerance

2.1. Limit

According to Radio Law of Japan item 19 of Article 2 Paragraph 1, Clause 3.2 (4), the Tolerance of frequency: $\pm 50 \times 10^{-6}$.

Limit
50ppm

2.2. Test Setup



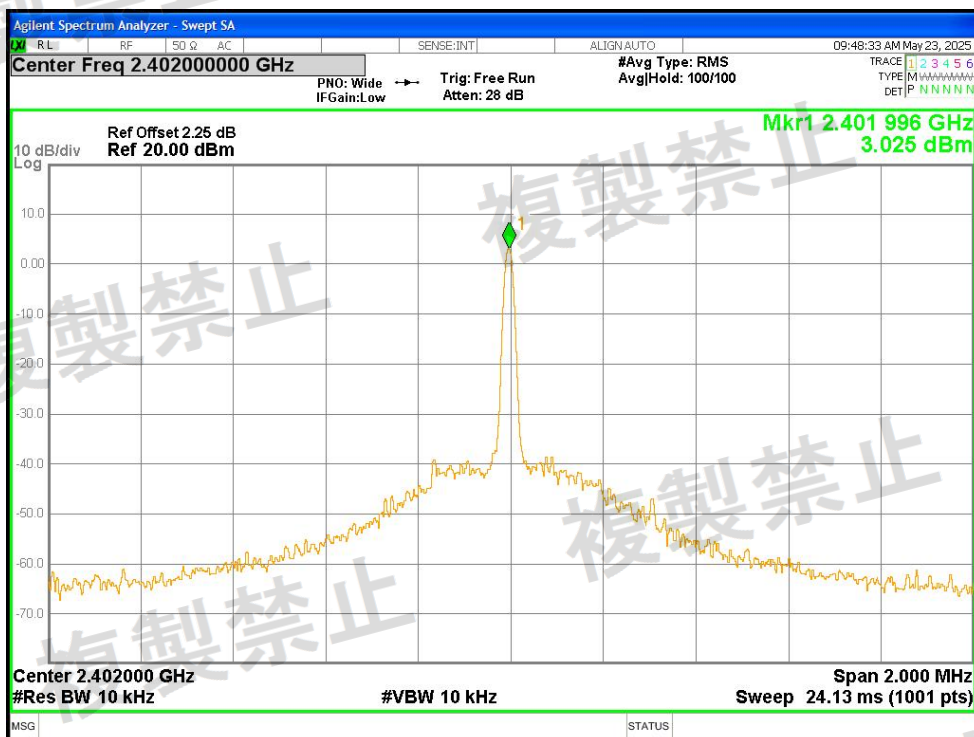
2.3. Test Procedure

1. In the case of unmodulated signal (continuous or continuous burst), measure the frequency directly by a Spectrum.
2. Set RBW = 10 kHz.
3. Set the video bandwidth (VBW) = RBW.
4. SPAN=2MHz
5. Detector = Peak.
6. Trace mode = max hold.
7. Sweep = auto couple.

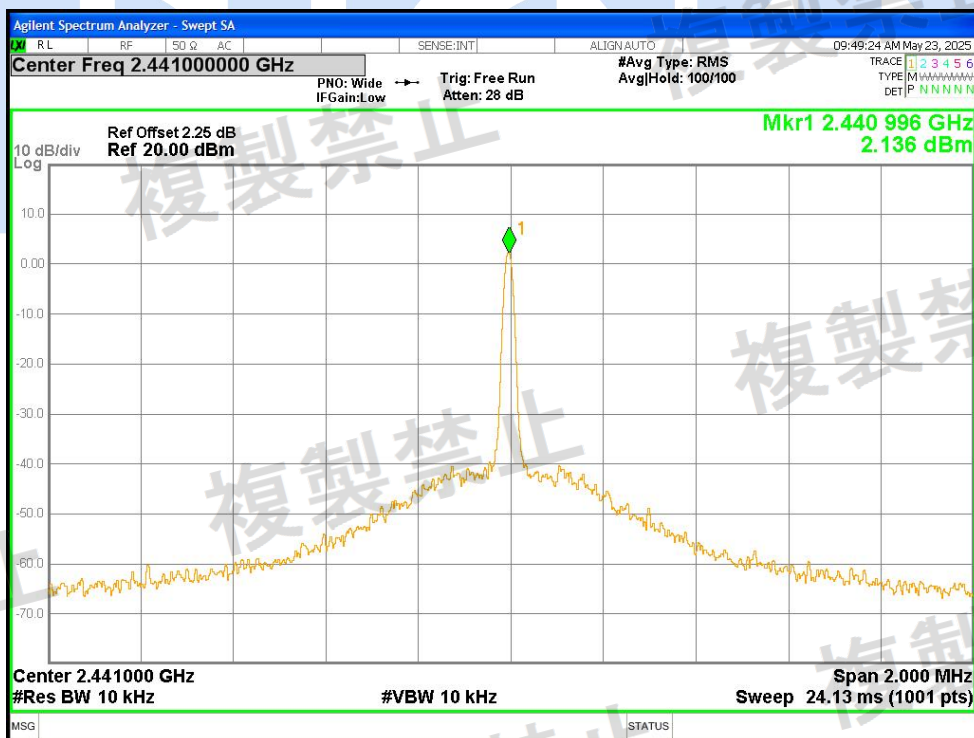
2.4. Test Result

Test mode	Test voltage	Frequency (MHz)	Read (MHz)	Deviation (Hz)	Tolerance (ppm)	Limit (ppm)	Result
Un-modulation mode	Normal	2402	2401.996	-4000	-1.67	± 50.00	Pass
		2441	2440.996	-4000	-1.64		
		2480	2479.996	-4000	-1.61		

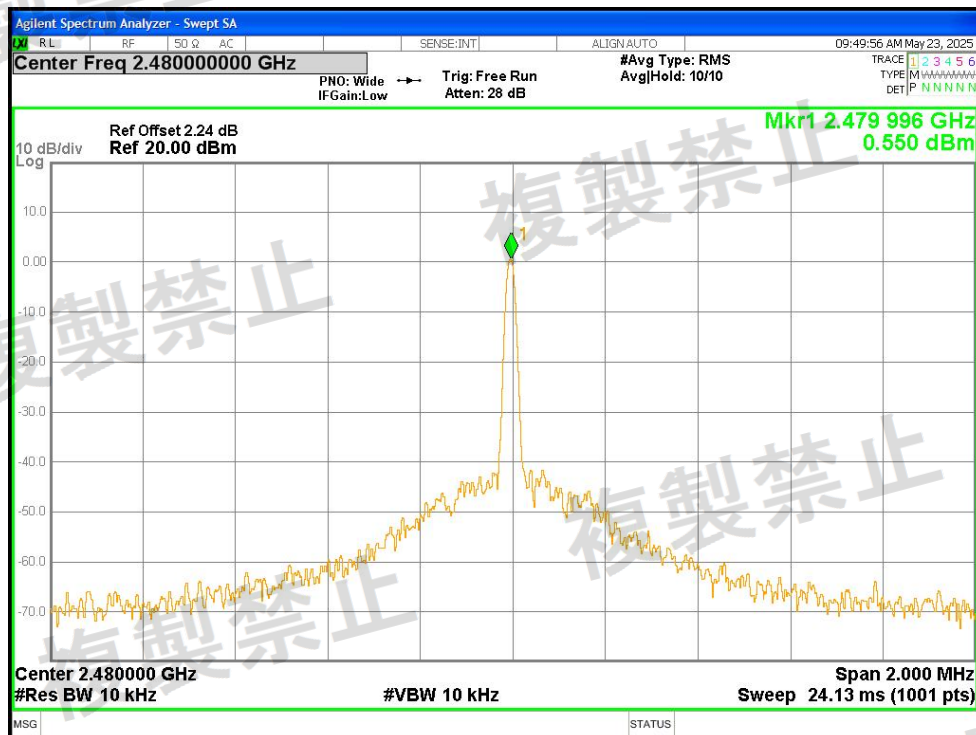
Note: Tolerance (ppm)=Deviation (Hz)/Frequency (MHz)



Freq. Error NVNT 1-DH5 2402MHz Ant1



Freq. Error NVNT 1-DH5 2441MHz Ant1



Freq. Error NVNT 1-DH5 2480MHz Ant1

3. Antenna Power Error Measurement

3.1. Limit

Item	Limits
Antenna Power Density	$\leq 3\text{mW/MHz}$
EIRP Power Density	$\leq 6.91\text{dBm/MHz}$
Antenna Power Error	+20% No lower limit

3.2. Test Setup



3.3. Test Procedure

For FHSS UUT

Measure the total power by the Power Meter in a state of hopping mode.

Calculate the mean power per 1MHz by dividing the reading level by spread bandwidth.

Output power Density (Mw/MHz) = Total power (mW) / spread bandwidth(MHz)

3.4. Test Result

Test Mode	Channel	Total Output Power (dBm)	Total Output Power (mW)	Spread Band Width (MHz)	Test Result for Antenna Power (mw/MHz)	Declared Antenna Power (mw/MHz)	Tolerance (%)
GFSK	Hopping	17.86	61.09	70.229	0.87	2	-56
$\pi/4$ DQPSK	Hopping	18.85	76.74	70.613	1.09	2	-45
8DPSK	Hopping	18.85	76.74	70.583	1.09	2	-45

Antenna Power (mw/MHz)= antenna burst power(mW)/ Spread Bandwidth(MHz)

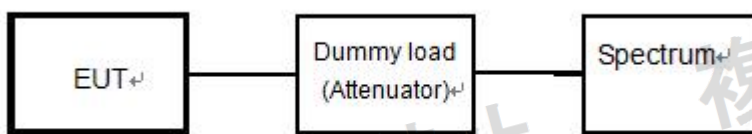
Note: The max EIRP power is -0.54dBm/MHz (0.37dBm/MHz -0.91dBi) that is less 6.91dBm/MHz.

4. Occupied Frequency Bandwidth(99% and 90%)

4.1. Limit

Item	Limits
Occupied Band Width(99%):	$\leq 83.5\text{MHz}$
Spreading Bandwidth(90%):	$\geq 500\text{ kHz}$

4.2. Test Setup



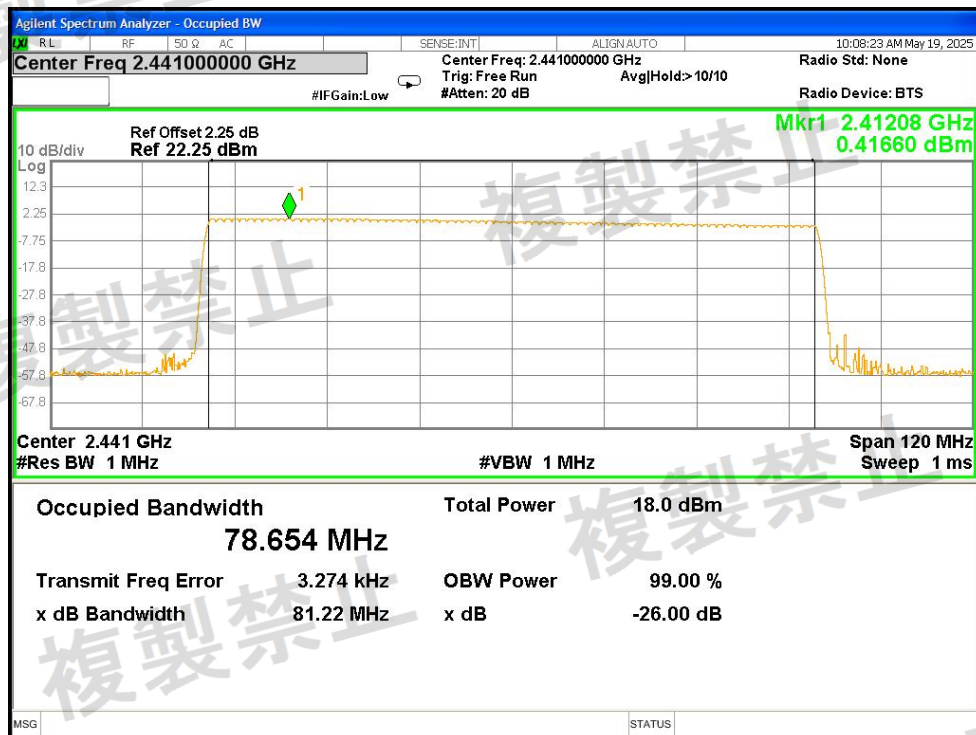
4.3. Test Procedure

- Setting of SA is following as: RB: 1MHz / VB:1MHz / SPAN: 120MHz / AT: 10dB Ref: 0dBm / Sweep time: Auto / Sweep Mode: Continuous sweep / Detect mode: Positive peak / Trace mode: Max hold
- EUT have transmitted the maximum modulation signal and fixed channelize (For DSSS or OFDM Device) or continuous maximum power of hopping mode(For FHSS Device). SA set to 99% of occupied bandwidth to measure occupied bandwidth. The limit is less than 26MHz(For DSSS or OFDM Device) or 83.5MHz(For FHSS Device).
- SA set to 90% of occupied bandwidth to measure Spread Spectrum Bandwidth and must greater than 500kHz.
- Spread Spectrum Factor = Spread Spectrum Bandwidth / modulation rate of EUT.
- Spread Spectrum Factor limit is greater than 5
- Spread spectrum factor= Spread bandwidth/ Transmission rate

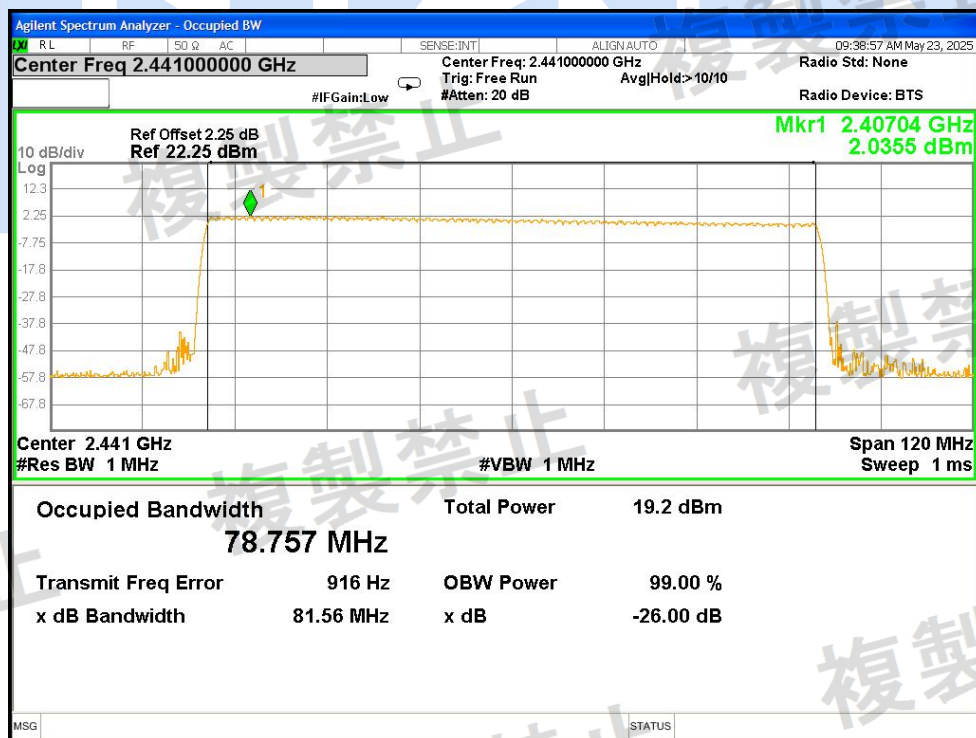
4.4. Test Result

Test Mode	Test Channel	99%Hopping Mode(Occupied bandwidth) MHz	90%Hopping Mode(Occupied bandwidth) MHz	Spread spectrum factor	Result
GFSK	Hopping	78.654	70.229	70.229	PASS
Pi/4 DQPSK	Hopping	78.757	70.613	70.613	PASS
8-DPSK	Hopping	78.723	70.583	70.583	PASS

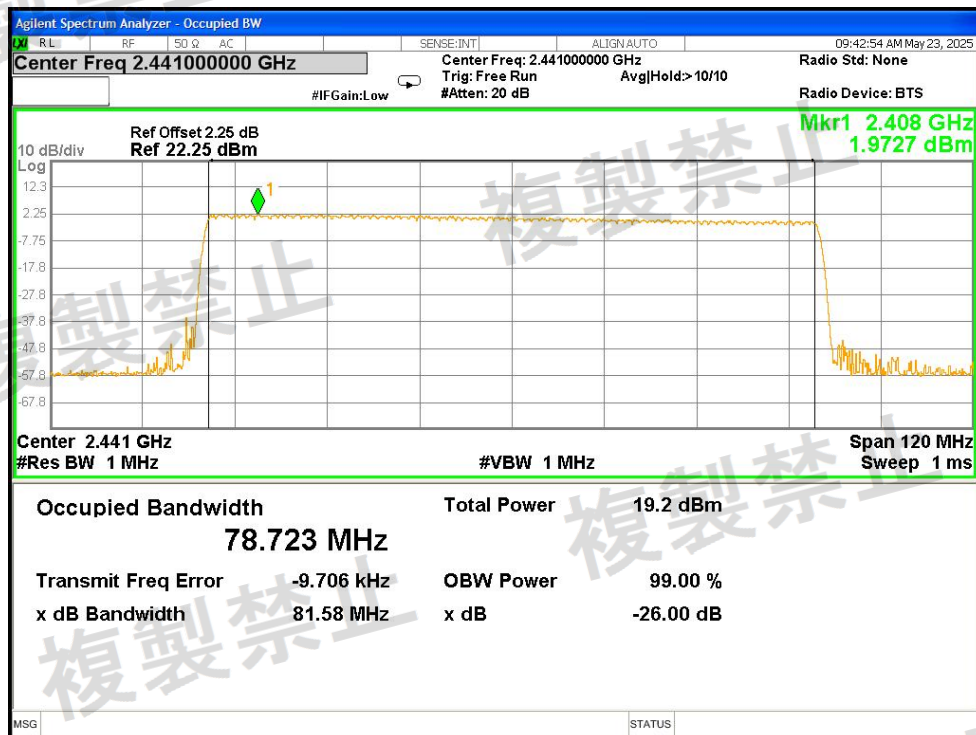
Note: GFSK mode data rate is 1Mbits/s; Pi/4 DQPSK mode data rate is 1Mbits/s; 8-DPSK mode data rate is 1Mbits/s



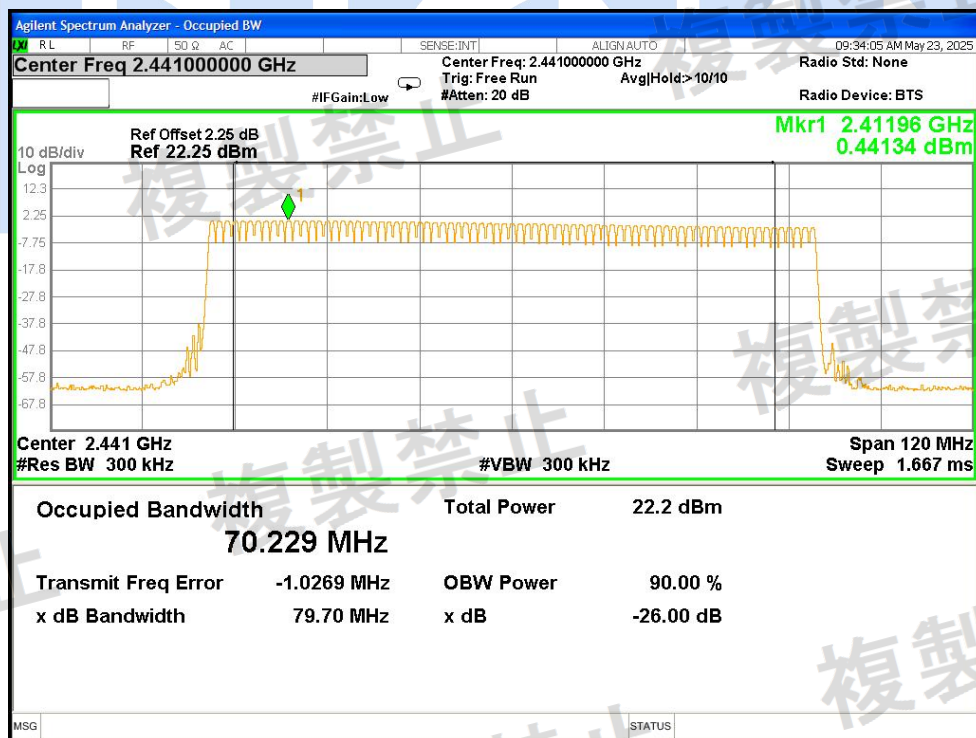
OBW (Hopping) NVNT 1-DH5 2402MHz Ant1



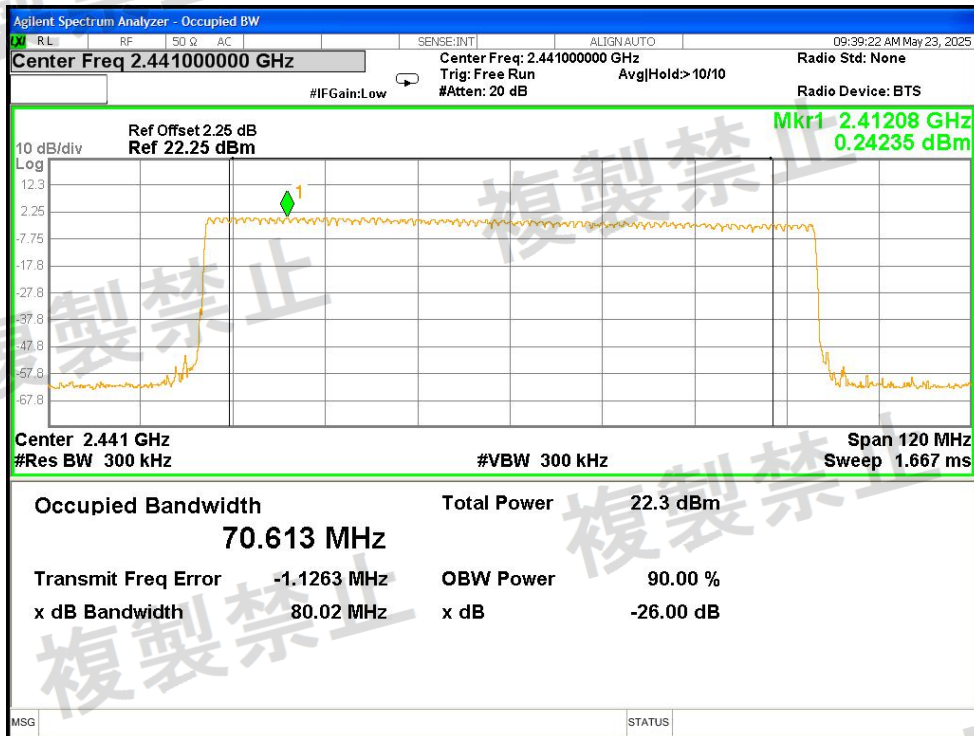
OBW (Hopping) NVNT 2-DH5 2402MHz Ant1



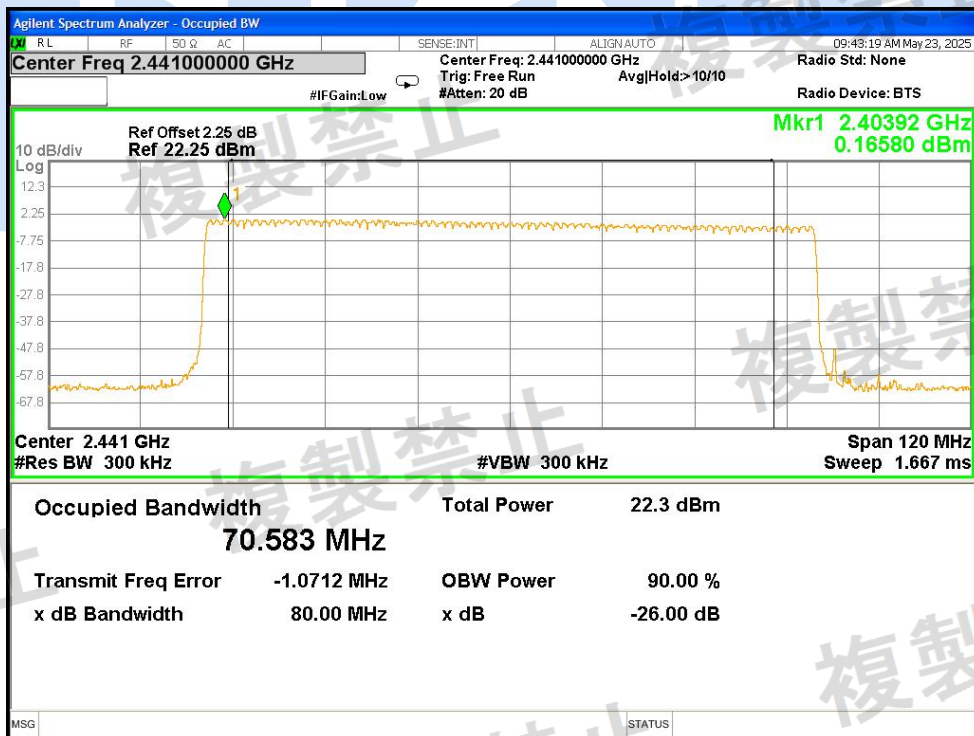
OBW (Hopping) NVNT 3-DH5 2402MHz Ant1



Spreading Bandwidth NVNT 1-DH5 2402MHz Ant1



Spreading Bandwidth NVNT 2-DH5 2402MHz Ant1



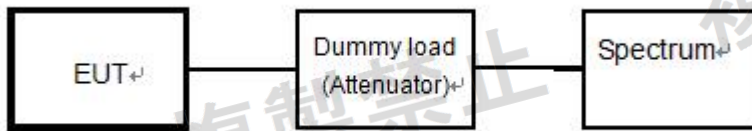
Spreading Bandwidth NVNT 3-DH5 2402MHz Ant1

5. Unwanted Emission Intensity Measurement

5.1. Limit

Item	Limit
TX Spurious Emission	30MHz - 2387MHz; 2.5 μ W/MHz or less
	2387MHz – 2400MHz; 25 μ W/MHz or less
	2483.5MHz – 2496.5MHz; 25 μ W/MHz or less
	2496.5MHz – 12.5GHz; 2.5 μ W/MHz or less

5.2. Test setup



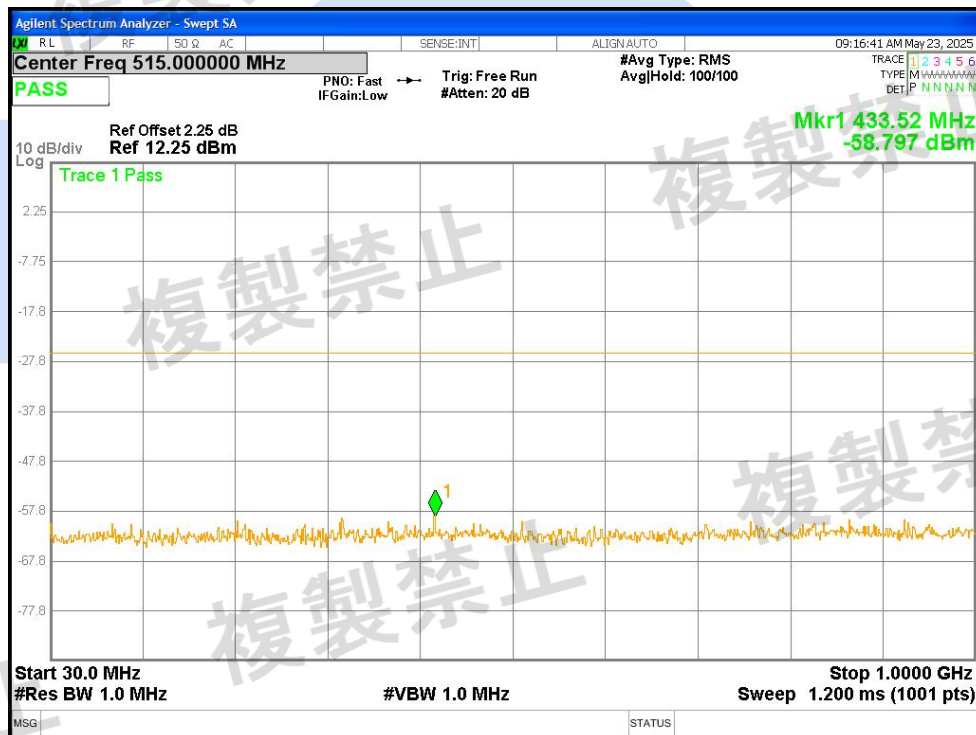
5.3. Test Procedure

- EUT have transmitted the maximum modulation signal and fixed channelize.
- Setting of SA is following as: Below 1GHz RB:1MHz / VB:1MHz
Above 1GHz RB:1MHz / VB:1MHz / AT: 10dB Ref: 0dBm / Sweep time: Auto
Sweep Mode: Continuous sweep / Detect mode: Positive peak
Trace mode: Max hold
- Setting of SA is following as 30MHz and stop frequency 1000MHz Then to mark peak reading value + cable loss shall be less than 2.5 μ W.
- Setting of SA is following as 1000MHz and stop frequency 2387MHz Then to mark peak reading value + cable loss shall be less than 2.5 μ W.
- SA adjusted to start frequency 2387MHz and stop frequency 2400MHz. Then to mark peak reading value + cable loss shall be less than 25 μ W.
- SA adjusted to start frequency 2483.5MHz and stop frequency 2496.5MHz Then to mark peak reading value + cable loss shall be less than 25 μ W
- 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 μ W
- 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]
- 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.

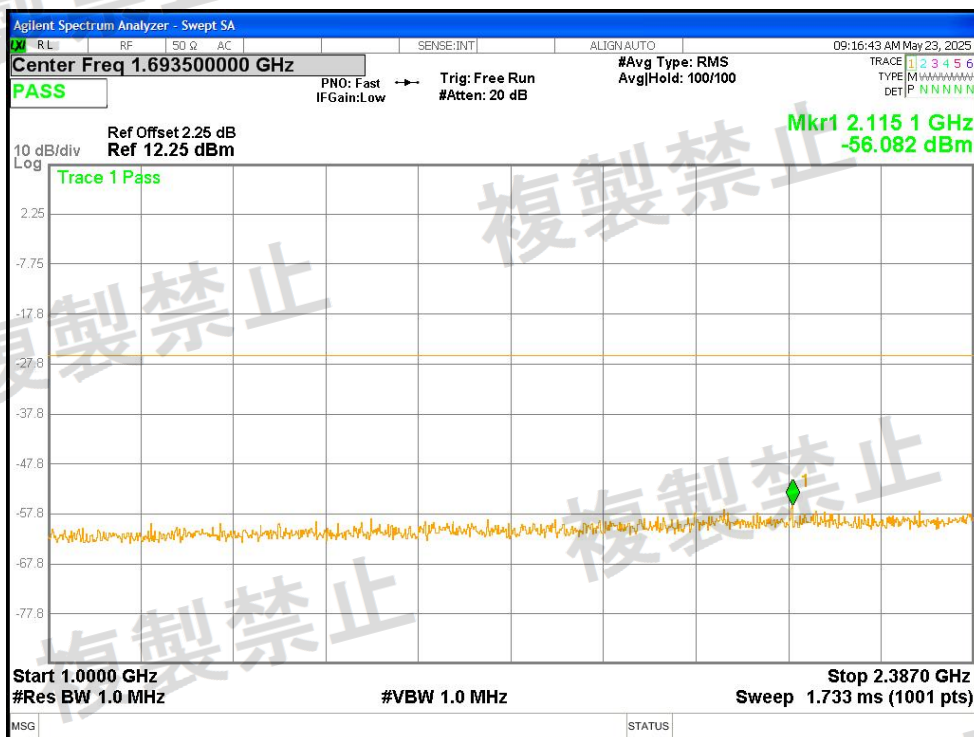
5.4. Test Result

Mode	Frequency (MHz)	Antenna	Range (MHz)	Emission Frequency (MHz)	Max Value (dBm/MHz)	Limit Start(dBm/MHz)	Limit Stop (dBm/MHz)	Verdict
1-DH5	2402	Ant1	30-1000	433.52	-58.8	-26	-26	Pass
1-DH5	2402	Ant1	1000-2387	2115.15	-56.08	-26	-26	Pass
1-DH5	2402	Ant1	2387-2400	2399.9	-29.09	-16	-16	Pass
1-DH5	2402	Ant1	2483.5-2496.5	2491.83	-55.77	-16	-16	Pass
1-DH5	2402	Ant1	2496.5-13000	4807.27	-30.41	-26	-26	Pass
1-DH5	2441	Ant1	30-1000	288.99	-58.97	-26	-26	Pass
1-DH5	2441	Ant1	1000-2387	2153.98	-55.08	-26	-26	Pass
1-DH5	2441	Ant1	2387-2400	2399.15	-56.64	-16	-16	Pass
1-DH5	2441	Ant1	2483.5-2496.5	2491.61	-56.65	-16	-16	Pass
1-DH5	2441	Ant1	2496.5-13000	4880.79	-30.38	-26	-26	Pass
1-DH5	2480	Ant1	30-1000	832.19	-49.48	-26	-26	Pass
1-DH5	2480	Ant1	1000-2387	2357.87	-56.41	-26	-26	Pass
1-DH5	2480	Ant1	2387-2400	2395.71	-56	-16	-16	Pass
1-DH5	2480	Ant1	2483.5-2496.5	2484.09	-42.31	-16	-16	Pass
1-DH5	2480	Ant1	2496.5-13000	4964.82	-33.02	-26	-26	Pass
2-DH5	2402	Ant1	30-1000	839.95	-59.22	-26	-26	Pass
2-DH5	2402	Ant1	1000-2387	2115.15	-55.38	-26	-26	Pass
2-DH5	2402	Ant1	2387-2400	2399.38	-32.27	-16	-16	Pass
2-DH5	2402	Ant1	2483.5-2496.5	2492.26	-55.81	-16	-16	Pass
2-DH5	2402	Ant1	2496.5-13000	4807.27	-28.15	-26	-26	Pass
2-DH5	2441	Ant1	30-1000	899.12	-58.93	-26	-26	Pass
2-DH5	2441	Ant1	1000-2387	2153.98	-55.28	-26	-26	Pass
2-DH5	2441	Ant1	2387-2400	2397.28	-55.55	-16	-16	Pass
2-DH5	2441	Ant1	2483.5-2496.5	2491.85	-56.17	-16	-16	Pass
2-DH5	2441	Ant1	2496.5-13000	4880.79	-27.27	-26	-26	Pass
2-DH5	2480	Ant1	30-1000	854.5	-59.07	-26	-26	Pass
2-DH5	2480	Ant1	1000-2387	2145.66	-56.34	-26	-26	Pass
2-DH5	2480	Ant1	2387-2400	2399.61	-56.22	-16	-16	Pass
2-DH5	2480	Ant1	2483.5-2496.5	2484.28	-41.98	-16	-16	Pass
2-DH5	2480	Ant1	2496.5-13000	4964.82	-30.47	-26	-26	Pass
3-DH5	2402	Ant1	30-1000	482.02	-58.6	-26	-26	Pass
3-DH5	2402	Ant1	1000-2387	2145.66	-55.92	-26	-26	Pass

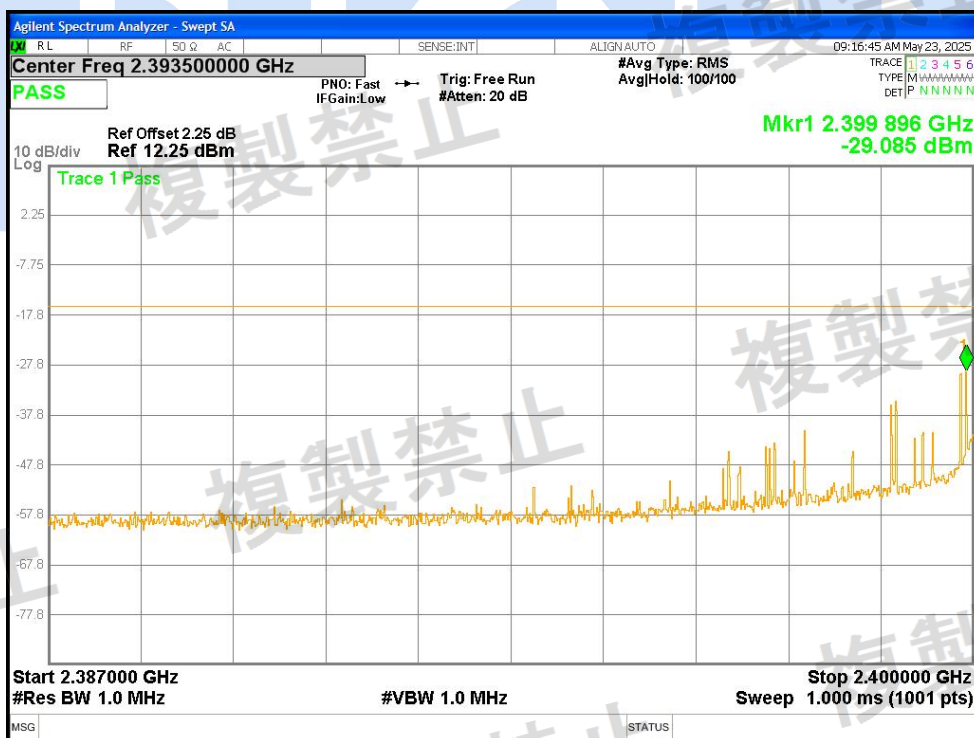
3-DH5	2402	Ant1	2387-2400	2390.61	-56.05	-16	-16	Pass
3-DH5	2402	Ant1	2483.5-2496.5	2484.2	-43.25	-16	-16	Pass
3-DH5	2402	Ant1	2496.5-13000	4964.82	-30.93	-26	-26	Pass
3-DH5	2441	Ant1	30-1000	929.19	-61.8	-26	-26	Pass
3-DH5	2441	Ant1	1000-2387	1961.19	-59.3	-26	-26	Pass
3-DH5	2441	Ant1	2387-2400	2399.04	-58.2	-16	-16	Pass
3-DH5	2441	Ant1	2483.5-2496.5	2494.99	-58.63	-16	-16	Pass
3-DH5	2441	Ant1	2496.5-13000	4880.79	-38.27	-26	-26	Pass
3-DH5	2480	Ant1	30-1000	845.77	-58.91	-26	-26	Pass
3-DH5	2480	Ant1	1000-2387	2048.57	-56.5	-26	-26	Pass
3-DH5	2480	Ant1	2387-2400	2397.56	-56.33	-16	-16	Pass
3-DH5	2480	Ant1	2483.5-2496.5	2484.28	-43.14	-16	-16	Pass
3-DH5	2480	Ant1	2496.5-13000	4964.82	-30.51	-26	-26	Pass



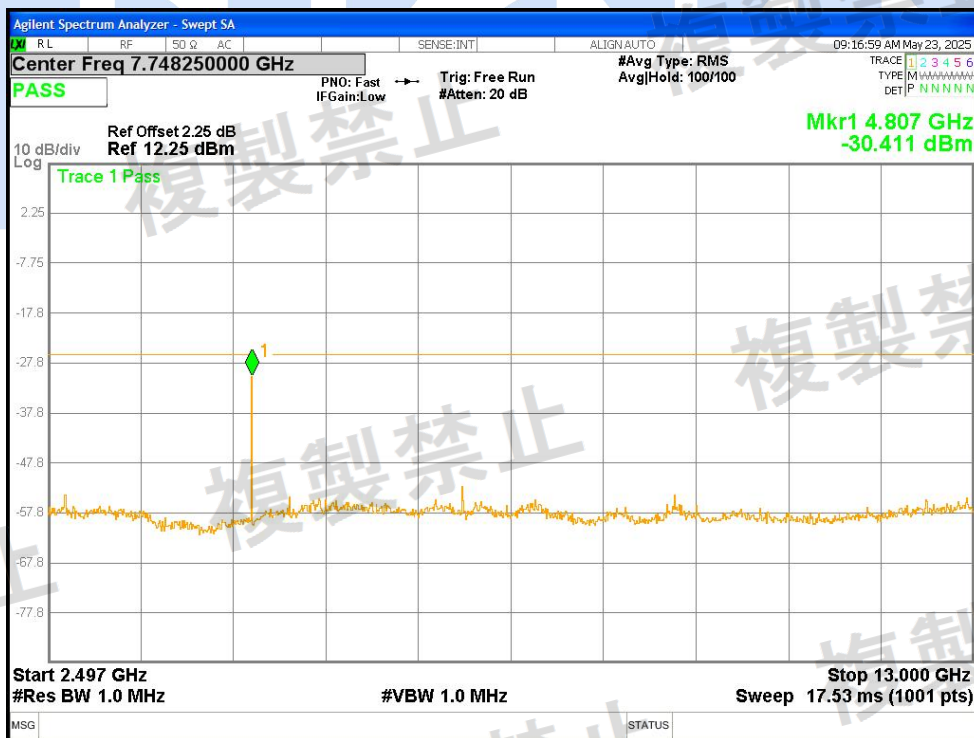
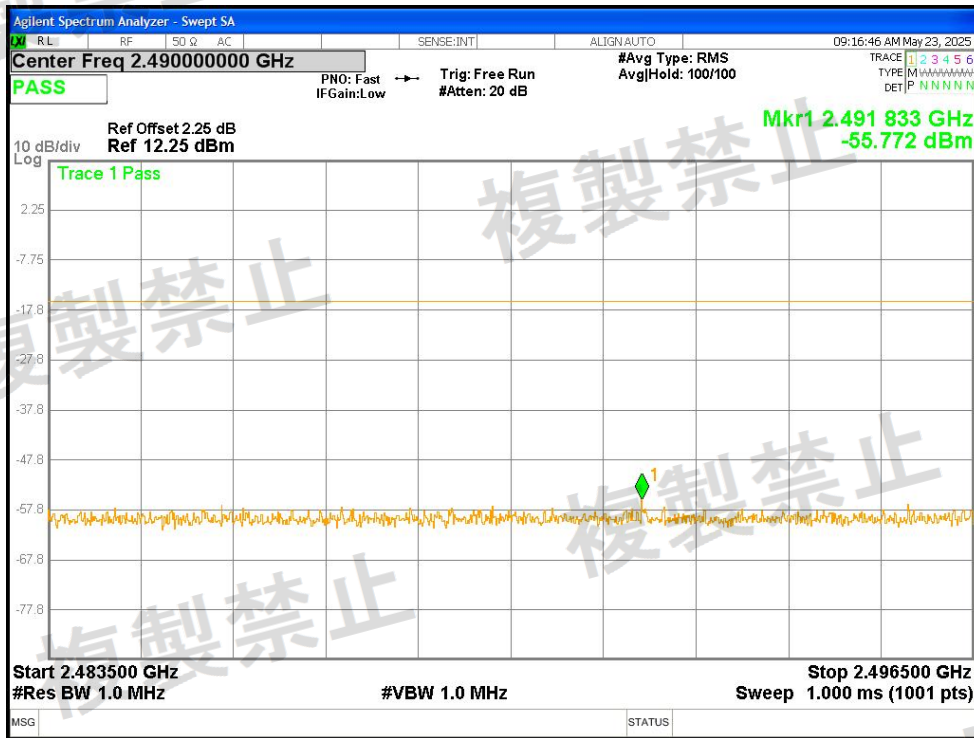
Tx. Spurious NVNT 1-DH5 2402MHz Ant1 @ 30MHz-1000MHz

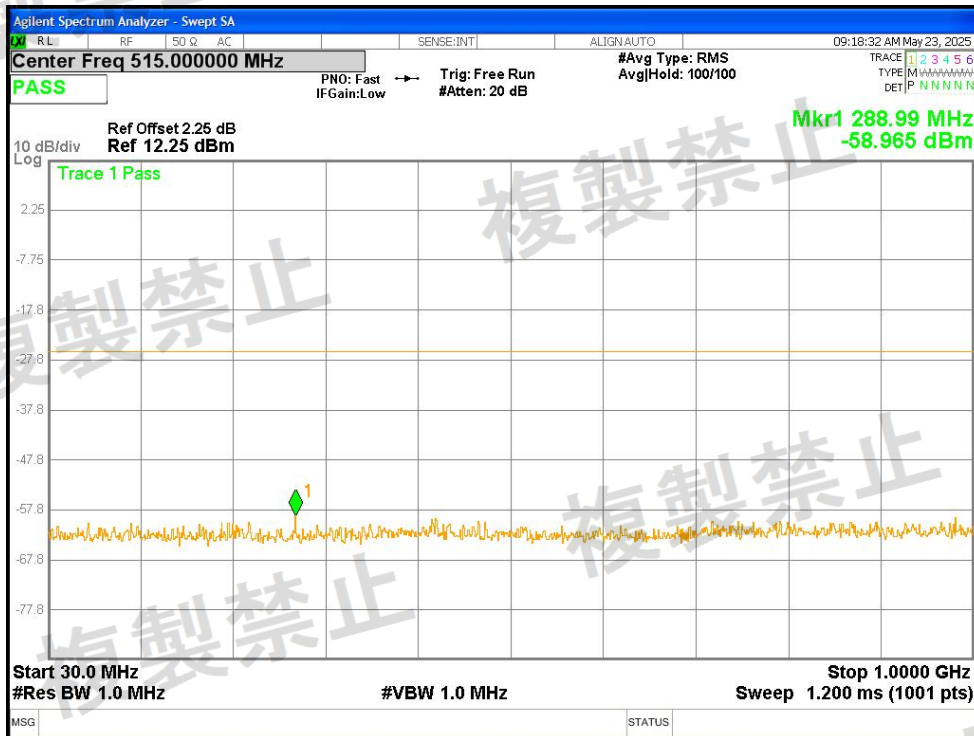


Tx. Spurious NVNT 1-DH5 2402MHz Ant1 @ 1000MHz-2387MHz

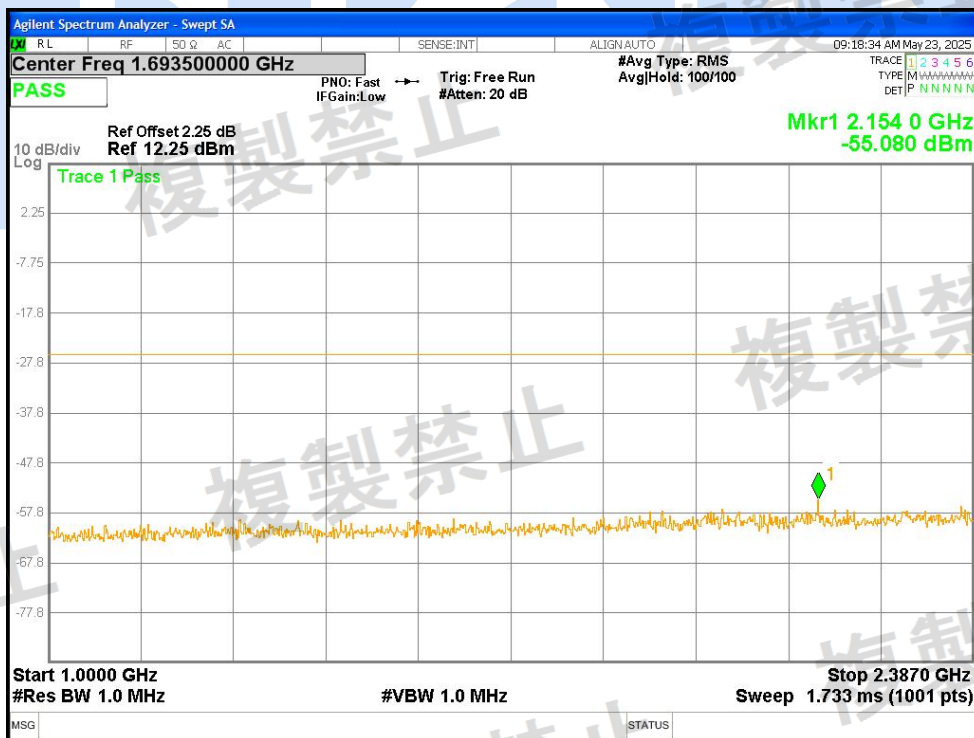


Tx. Spurious NVNT 1-DH5 2402MHz Ant1 @ 2387MHz-2400MHz

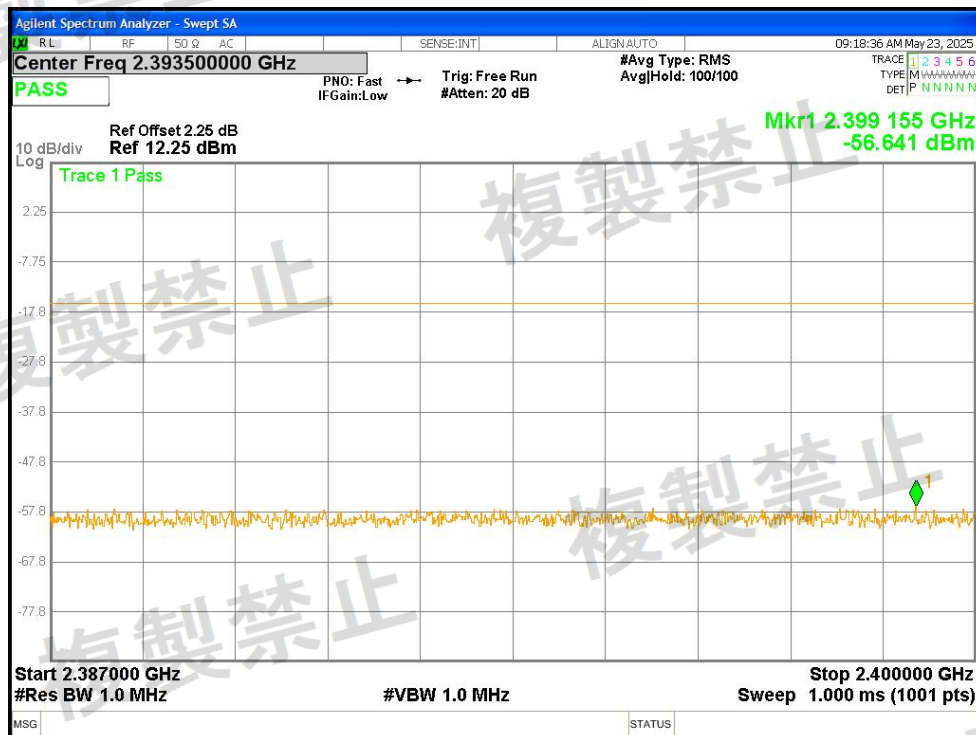




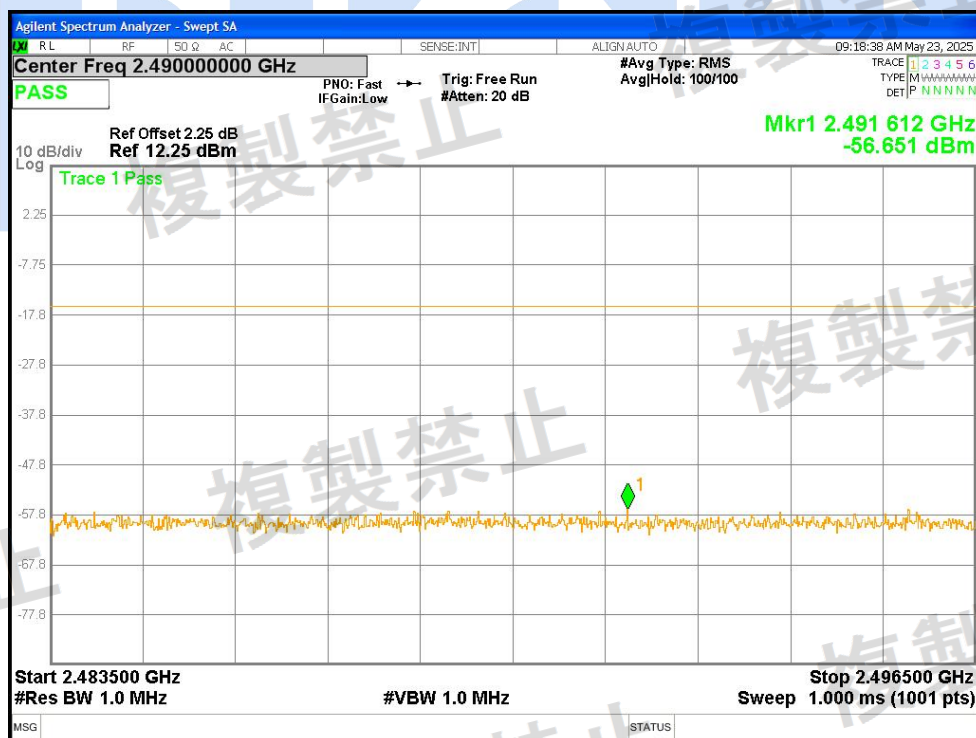
Tx. Spurious NVNT 1-DH5 2441MHz Ant1 @ 30MHz-1000MHz



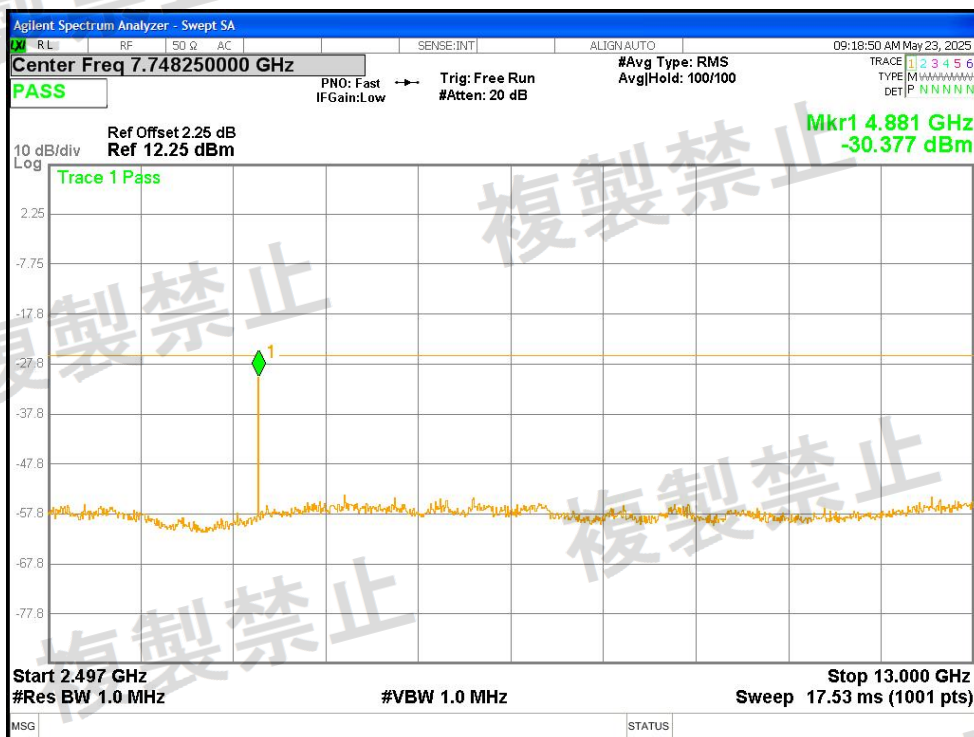
Tx. Spurious NVNT 1-DH5 2441MHz Ant1 @ 1000MHz-2387MHz



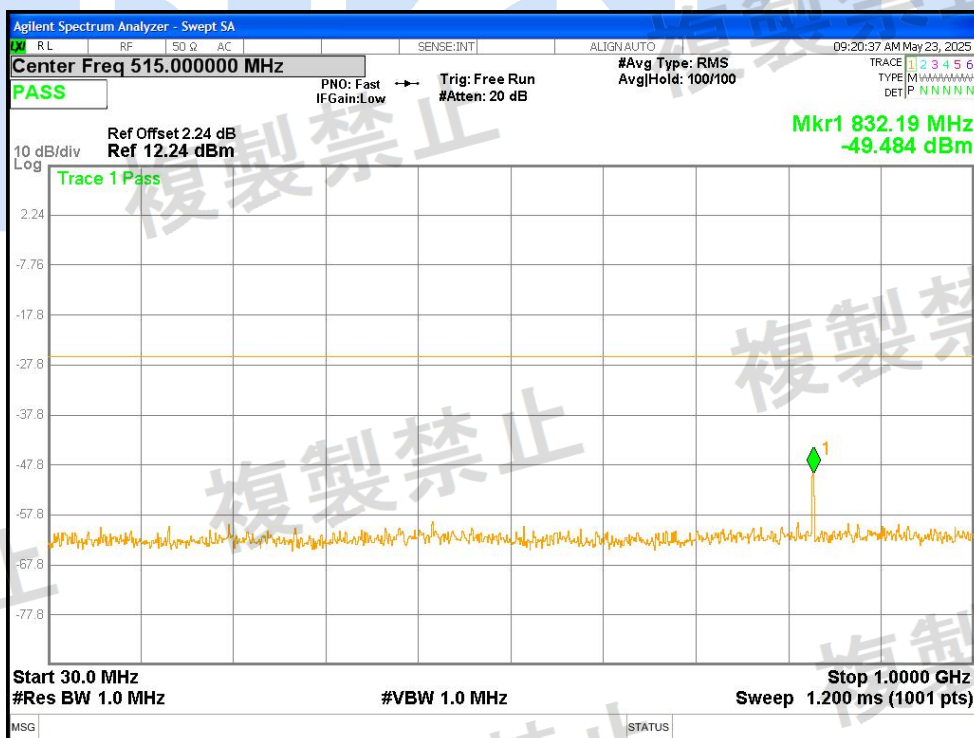
Tx. Spurious NVNT 1-DH5 2441MHz Ant1 @ 2387MHz-2400MHz



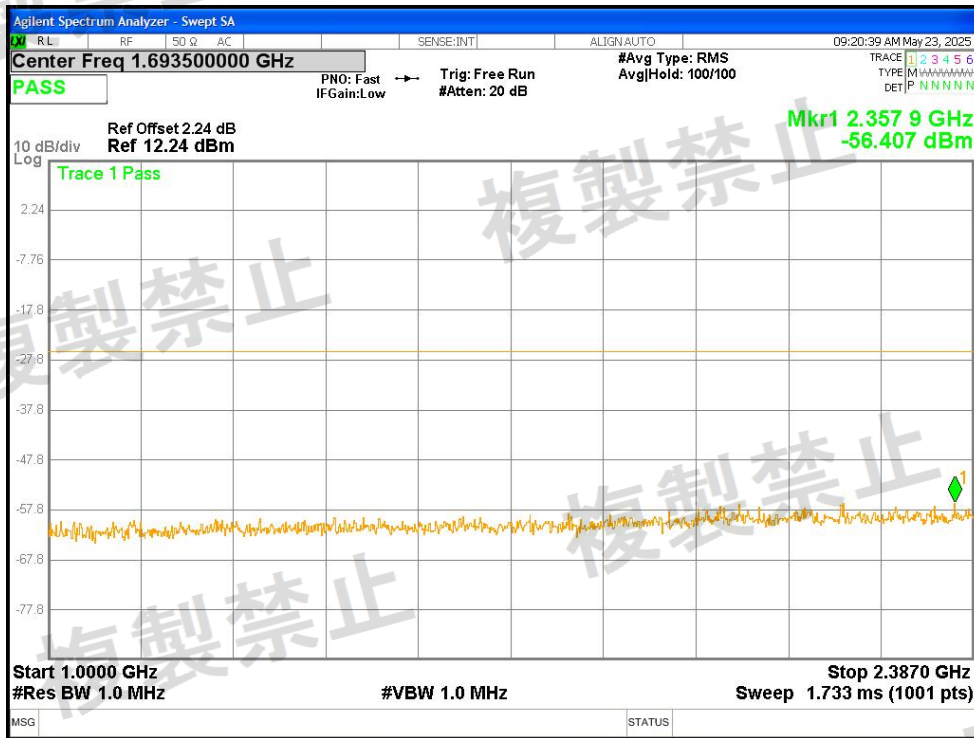
Tx. Spurious NVNT 1-DH5 2441MHz Ant1 @ 2483.5MHz-2496.5MHz



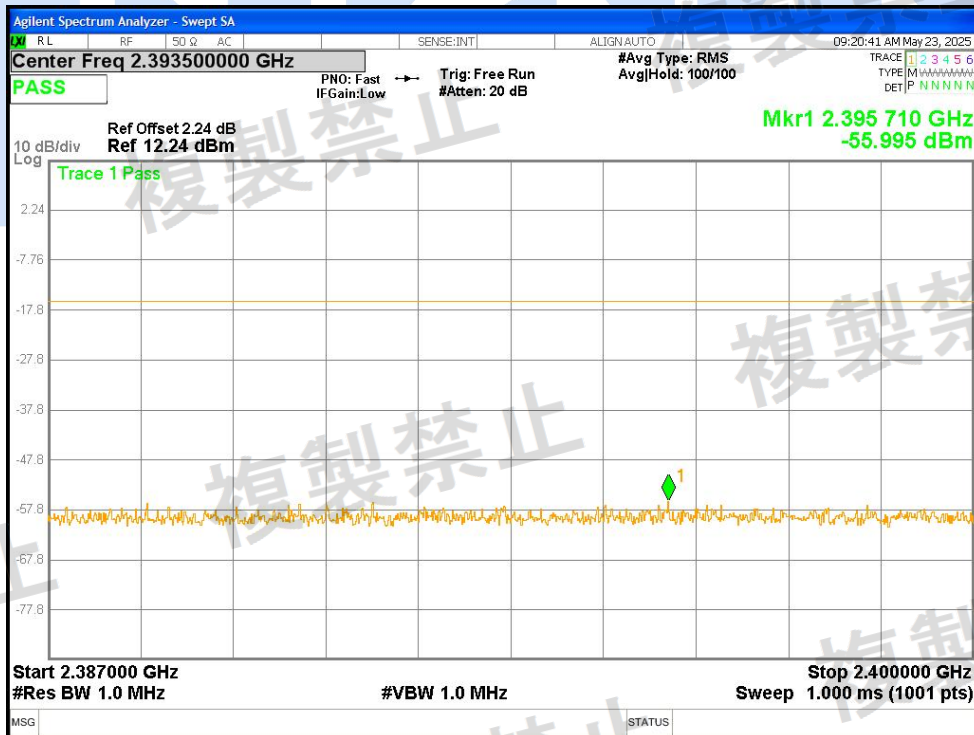
Tx. Spurious NVNT 1-DH5 2441MHz Ant1 @ 2496.5MHz-13000MHz



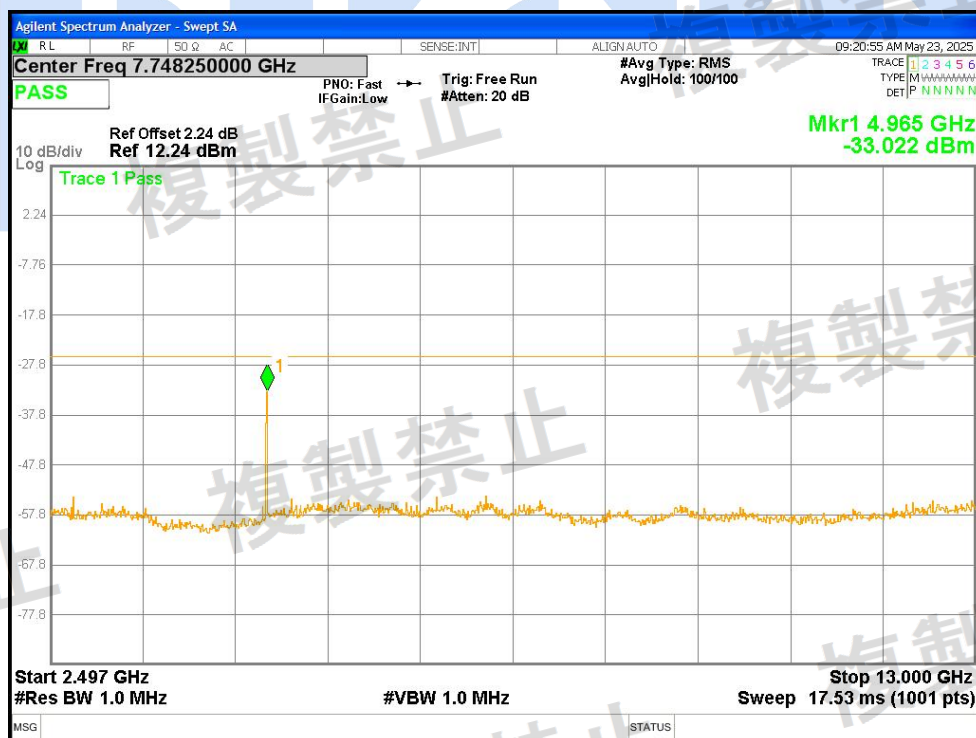
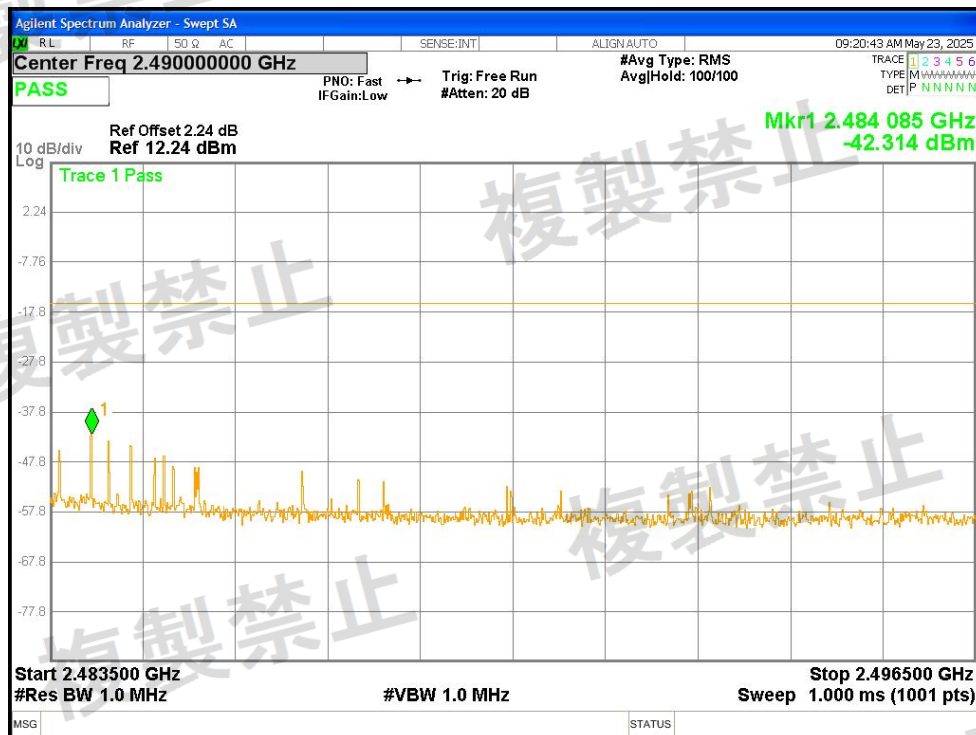
Tx. Spurious NVNT 1-DH5 2480MHz Ant1 @ 30MHz-1000MHz

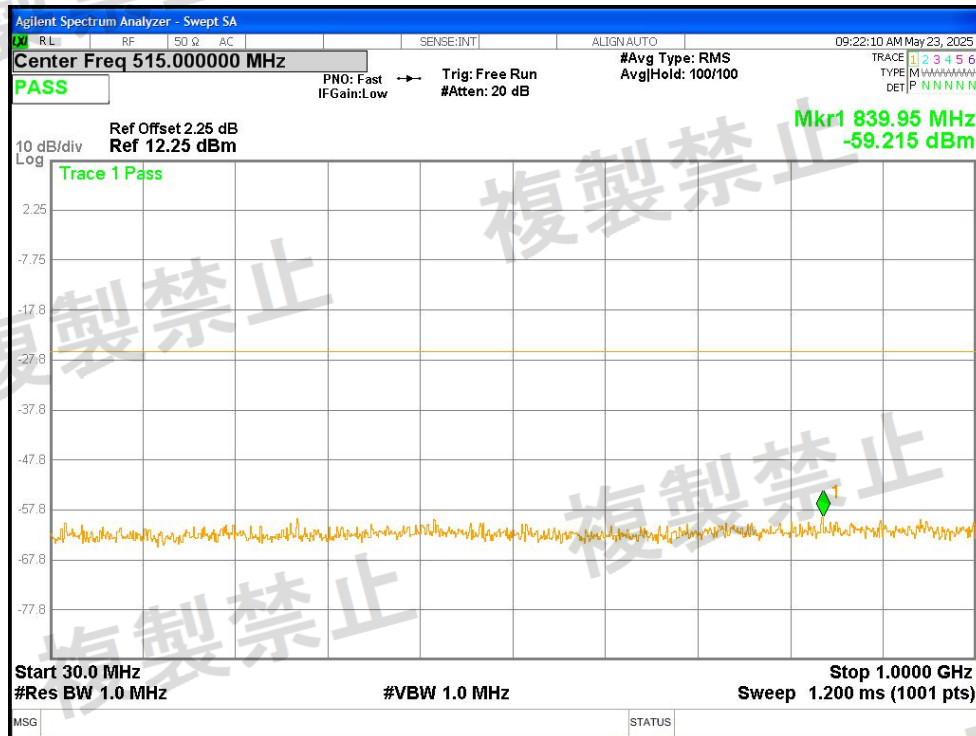


Tx. Spurious NVNT 1-DH5 2480MHz Ant1 @ 1000MHz-2387MHz

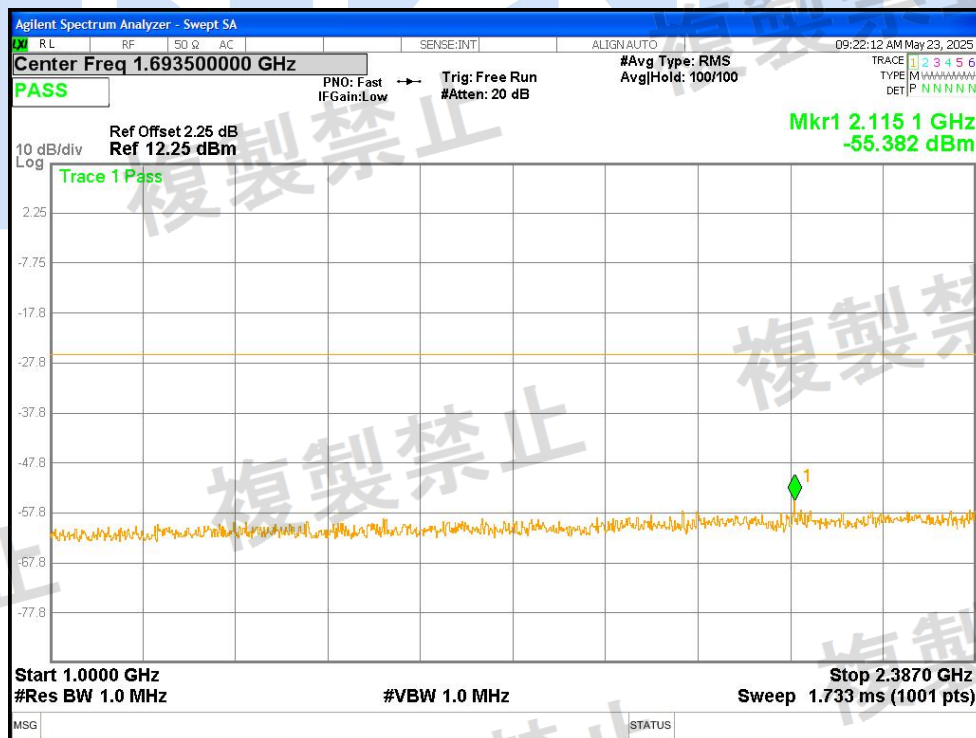


Tx. Spurious NVNT 1-DH5 2480MHz Ant1 @ 2387MHz-2400MHz

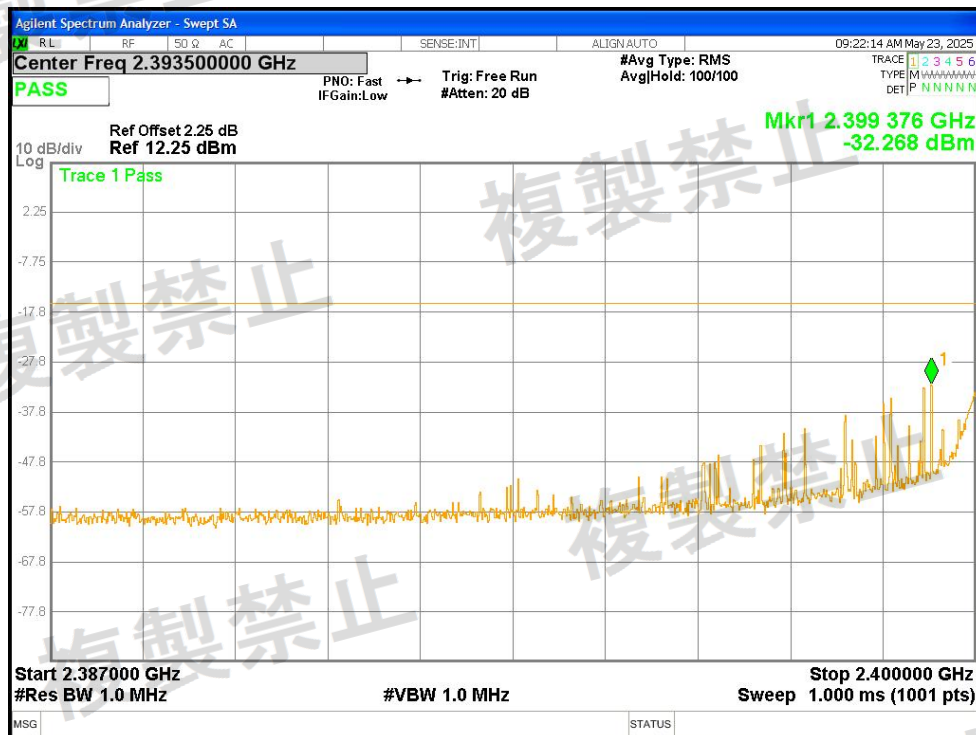




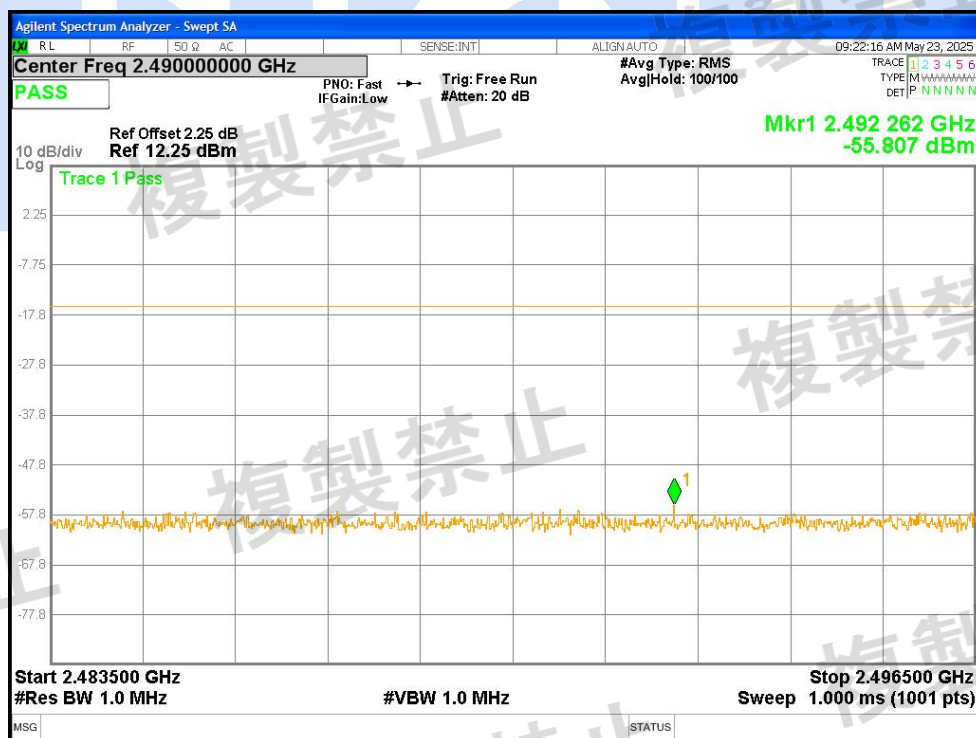
Tx. Spurious NVNT 2-DH5 2402MHz Ant1 @ 30MHz-1000MHz



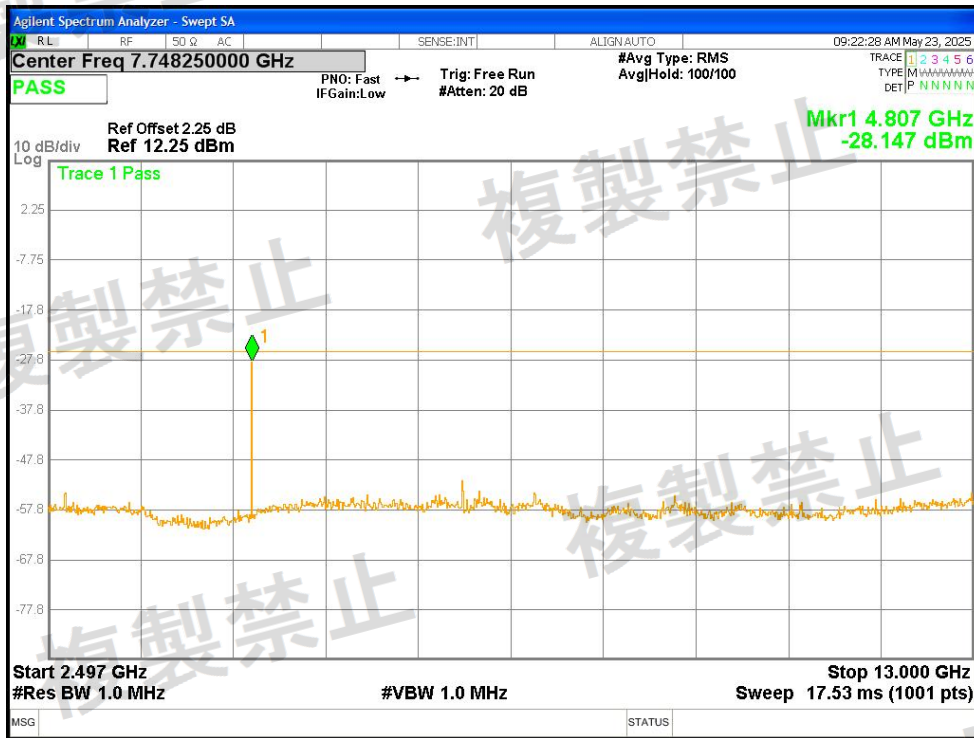
Tx. Spurious NVNT 2-DH5 2402MHz Ant1 @ 1000MHz-2387MHz



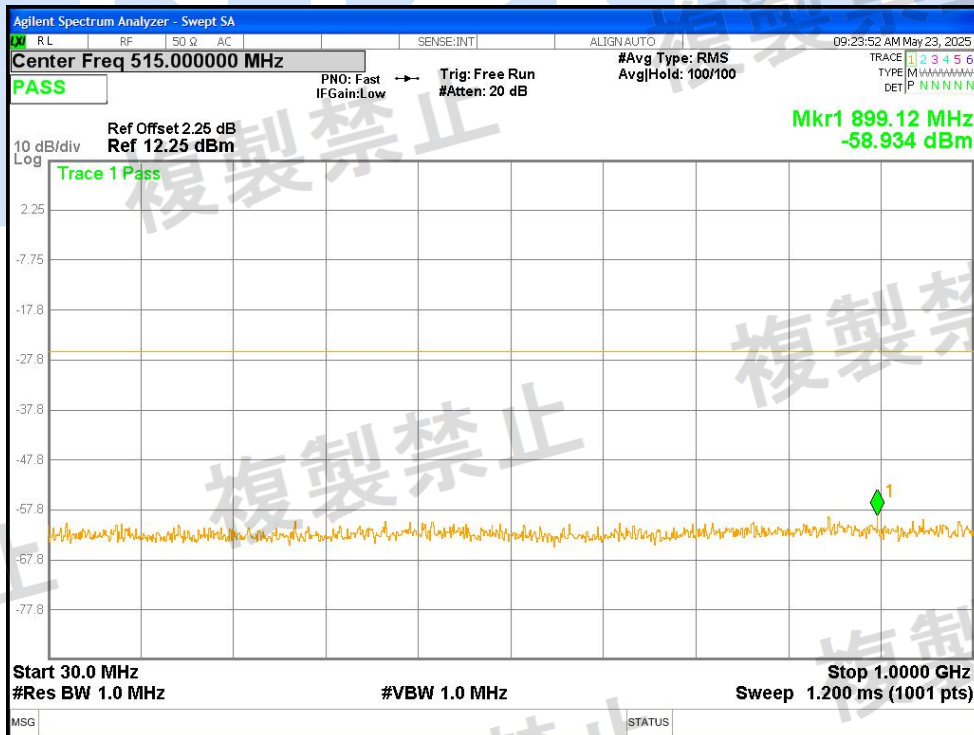
Tx. Spurious NVNT 2-DH5 2402MHz Ant1 @ 2387MHz-2400MHz



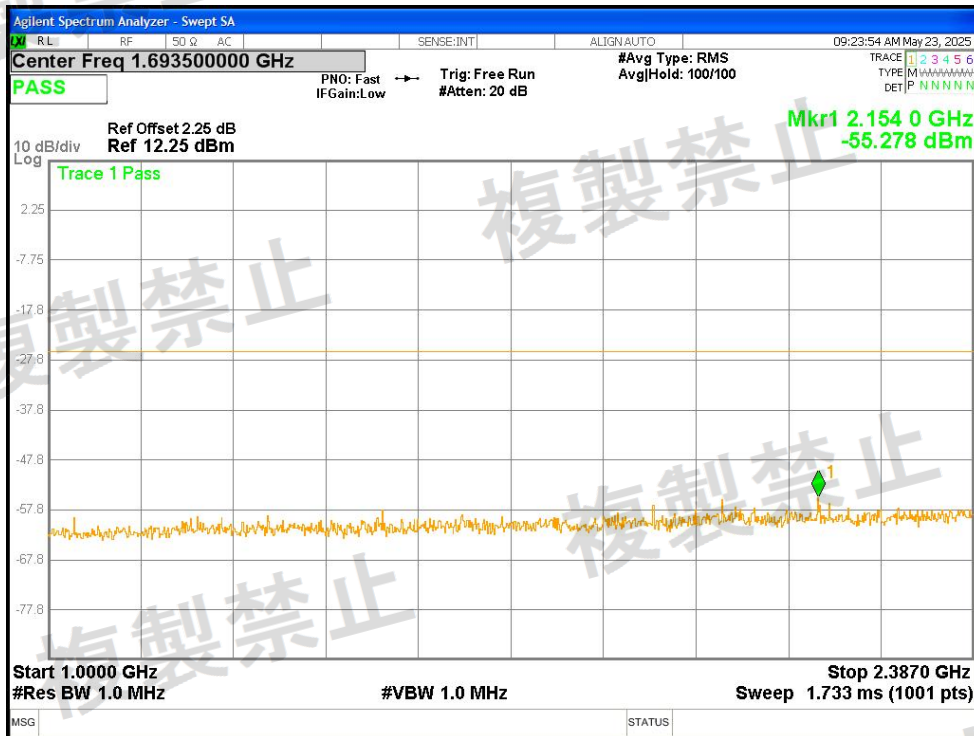
Tx. Spurious NVNT 2-DH5 2402MHz Ant1 @ 2483.5MHz-2496.5MHz



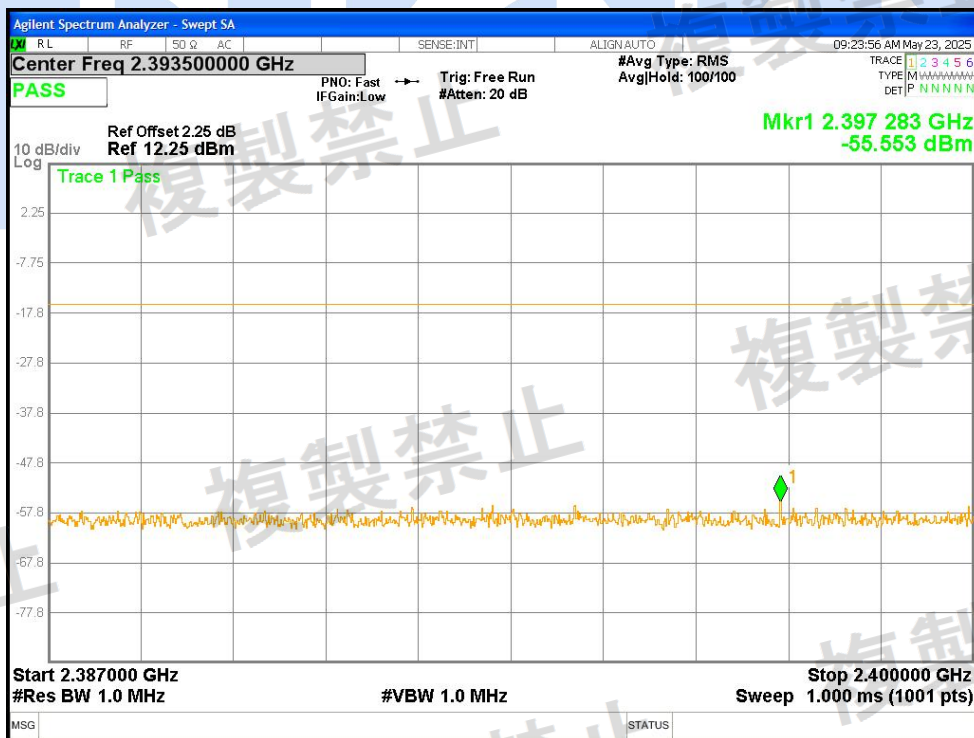
Tx. Spurious NVNT 2-DH5 2402MHz Ant1 @ 2496.5MHz-13000MHz



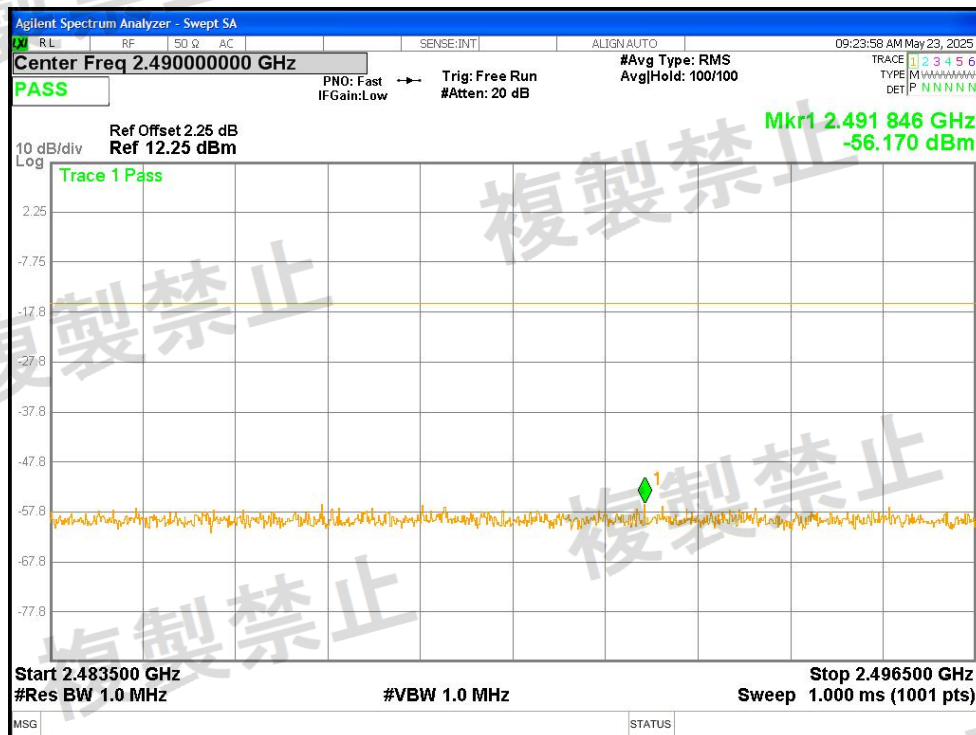
Tx. Spurious NVNT 2-DH5 2441MHz Ant1 @ 30MHz-1000MHz



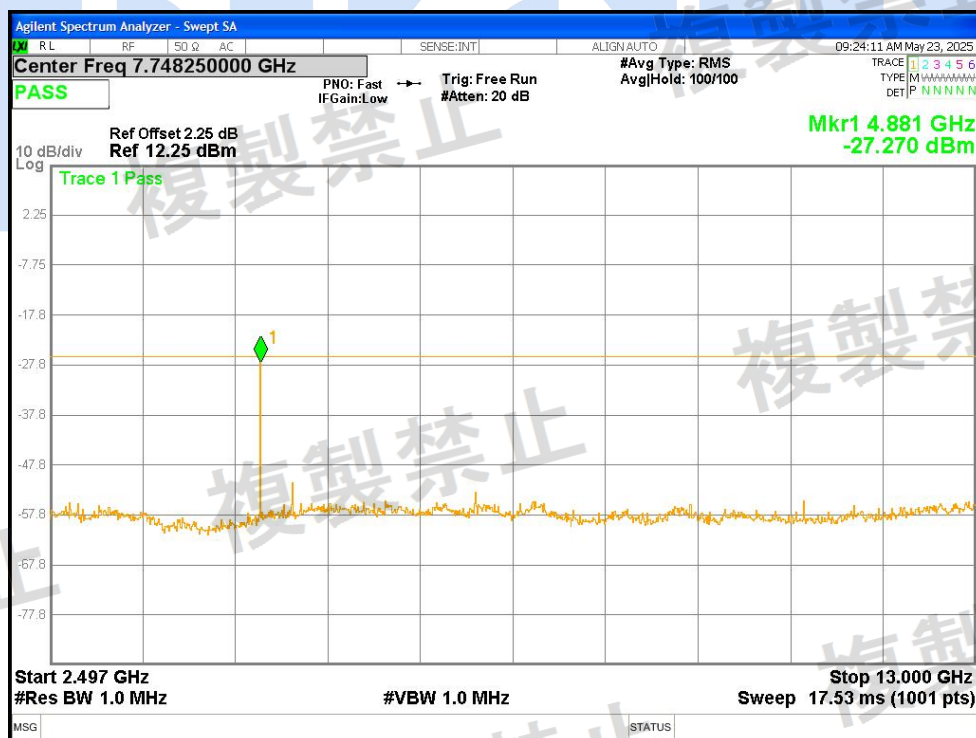
Tx. Spurious NVNT 2-DH5 2441MHz Ant1 @ 1000MHz-2387MHz



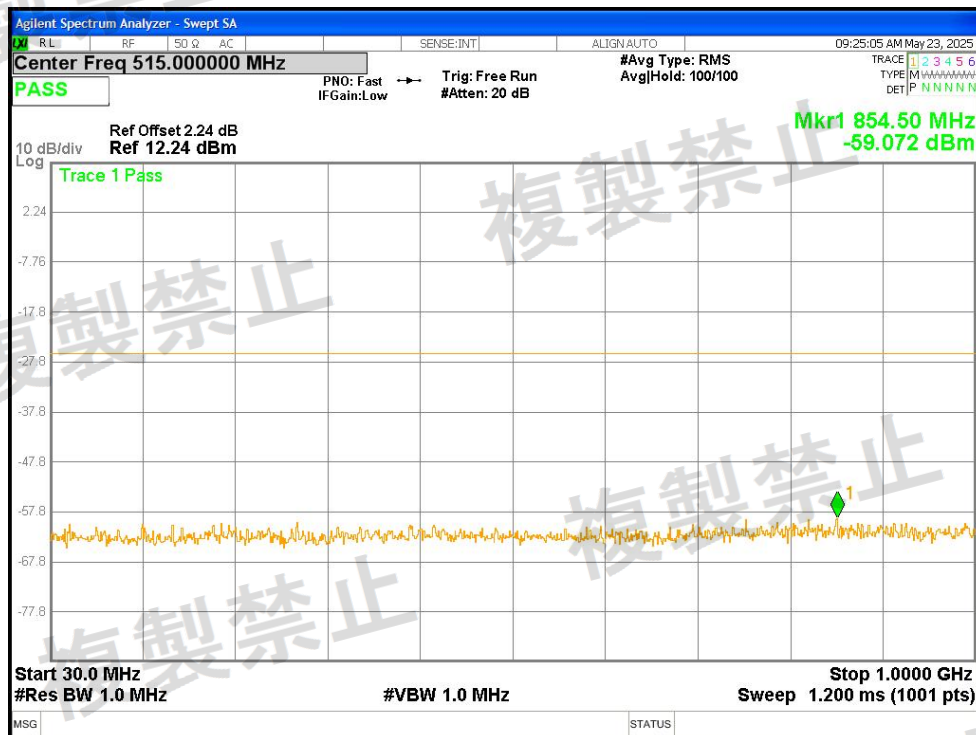
Tx. Spurious NVNT 2-DH5 2441MHz Ant1 @ 2387MHz-2400MHz



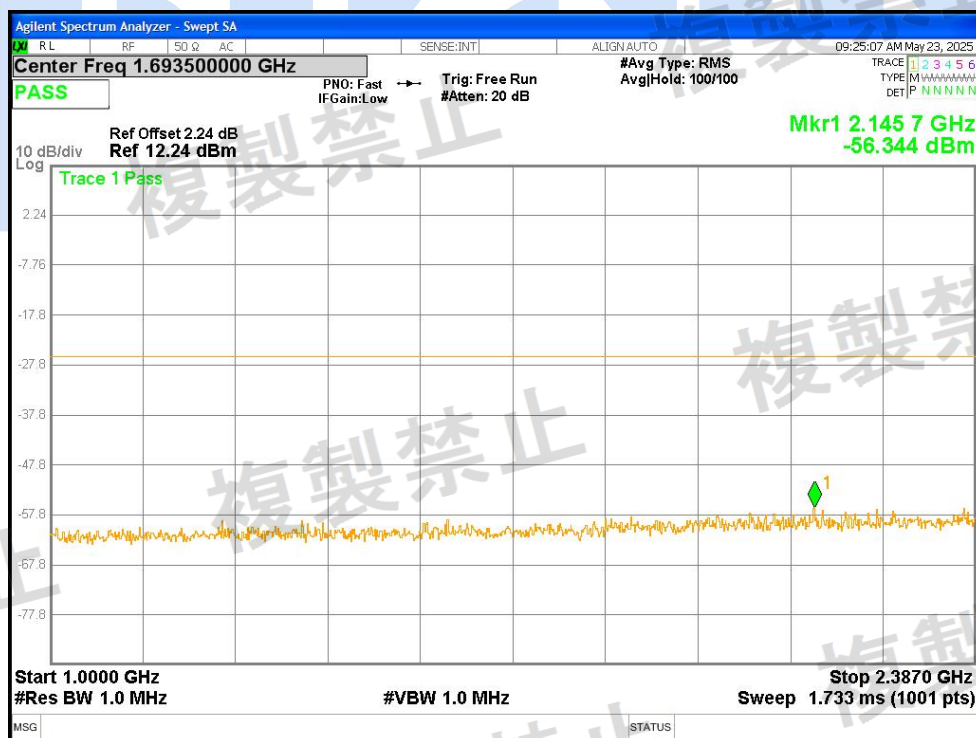
Tx. Spurious NVNT 2-DH5 2441MHz Ant1 @ 2483.5MHz-2496.5MHz



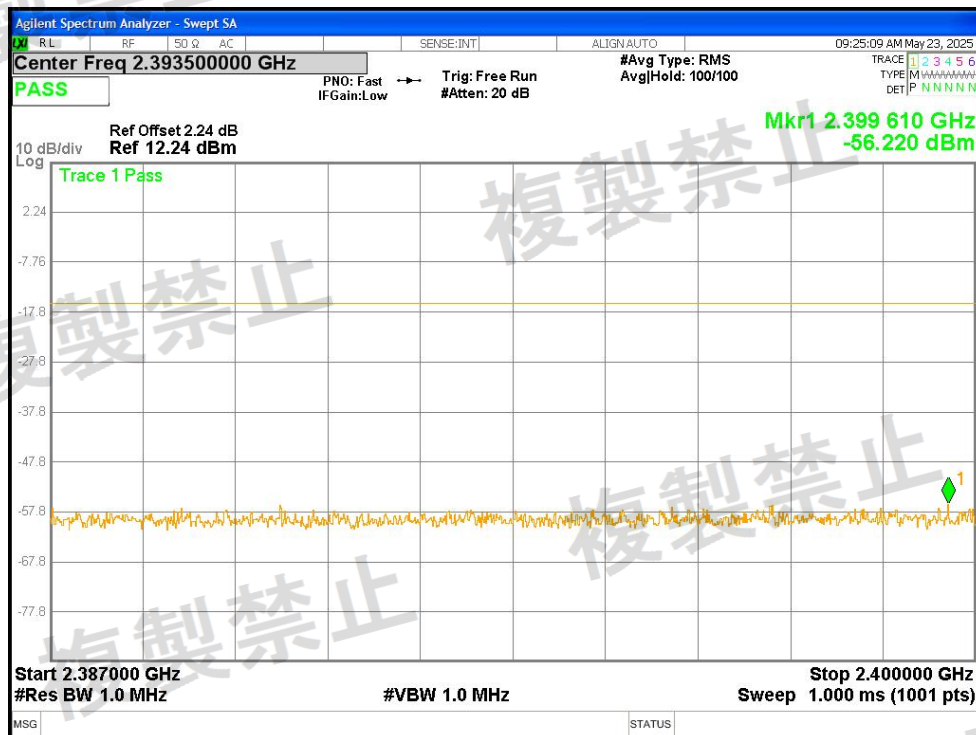
Tx. Spurious NVNT 2-DH5 2441MHz Ant1 @ 2496.5MHz-13000MHz



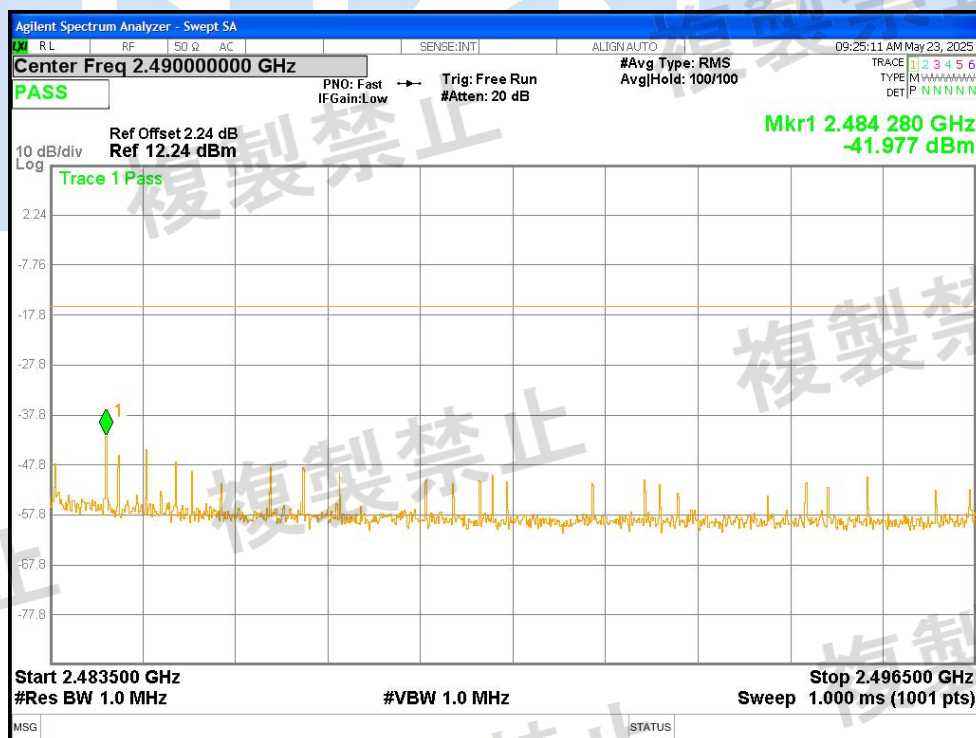
Tx. Spurious NVNT 2-DH5 2480MHz Ant1 @ 30MHz-1000MHz



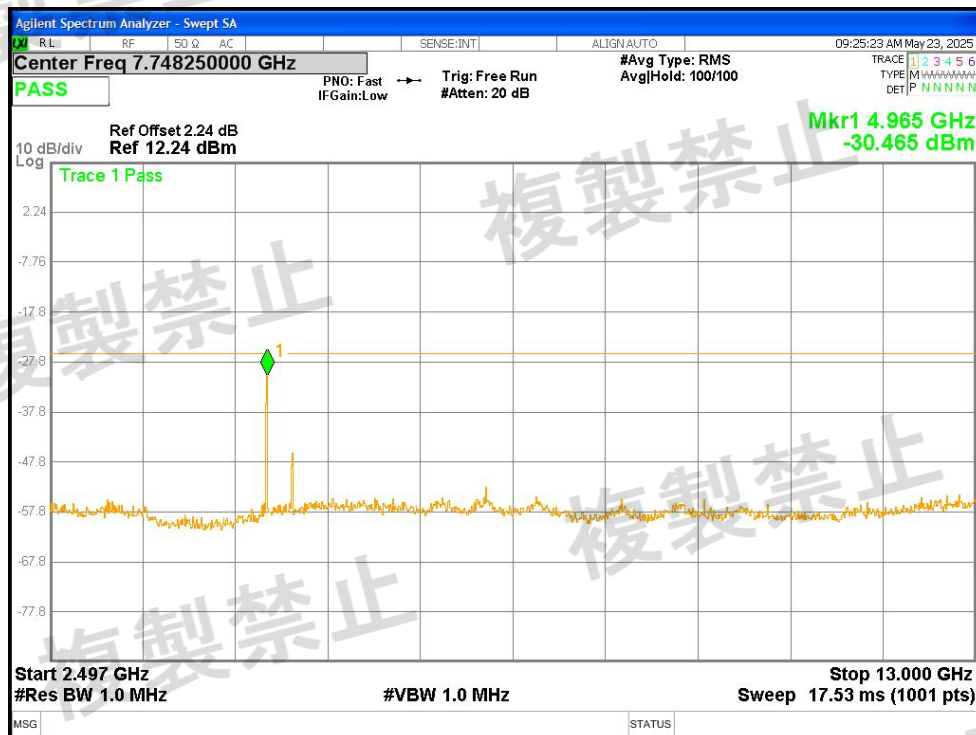
Tx. Spurious NVNT 2-DH5 2480MHz Ant1 @ 1000MHz-2387MHz



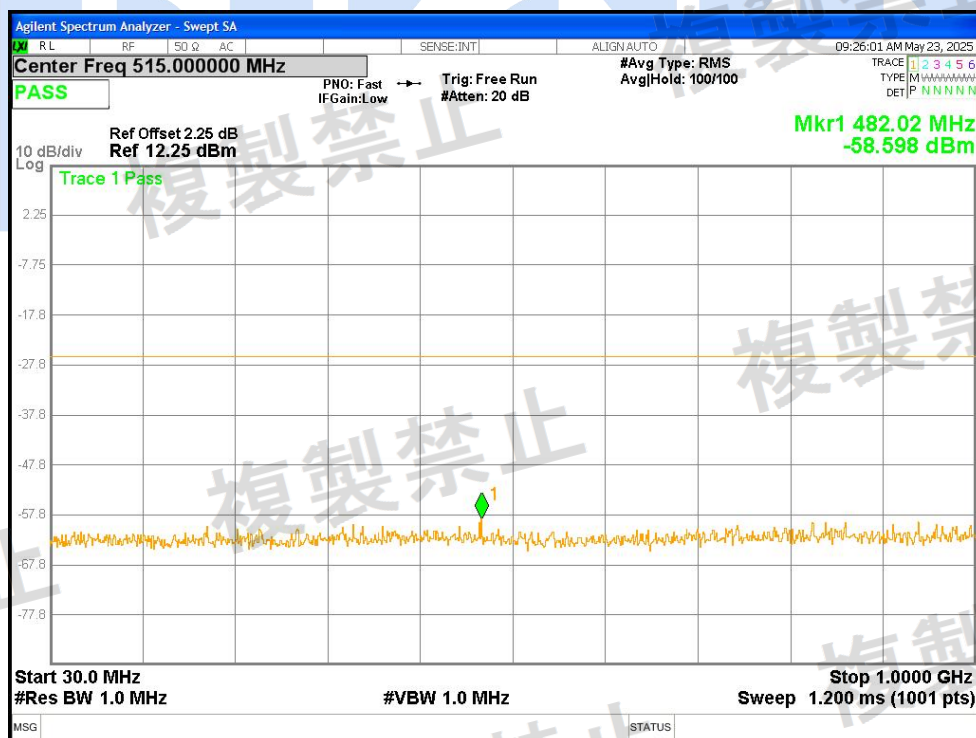
Tx. Spurious NVNT 2-DH5 2480MHz Ant1 @ 2387MHz-2400MHz



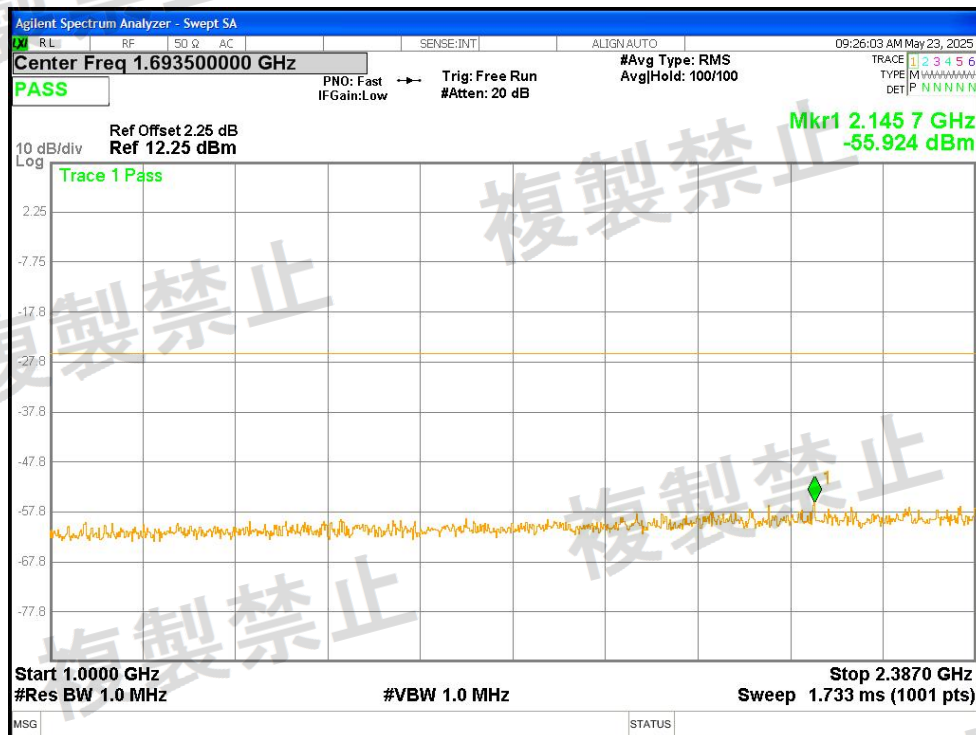
Tx. Spurious NVNT 2-DH5 2480MHz Ant1 @ 2483.5MHz-2496.5MHz



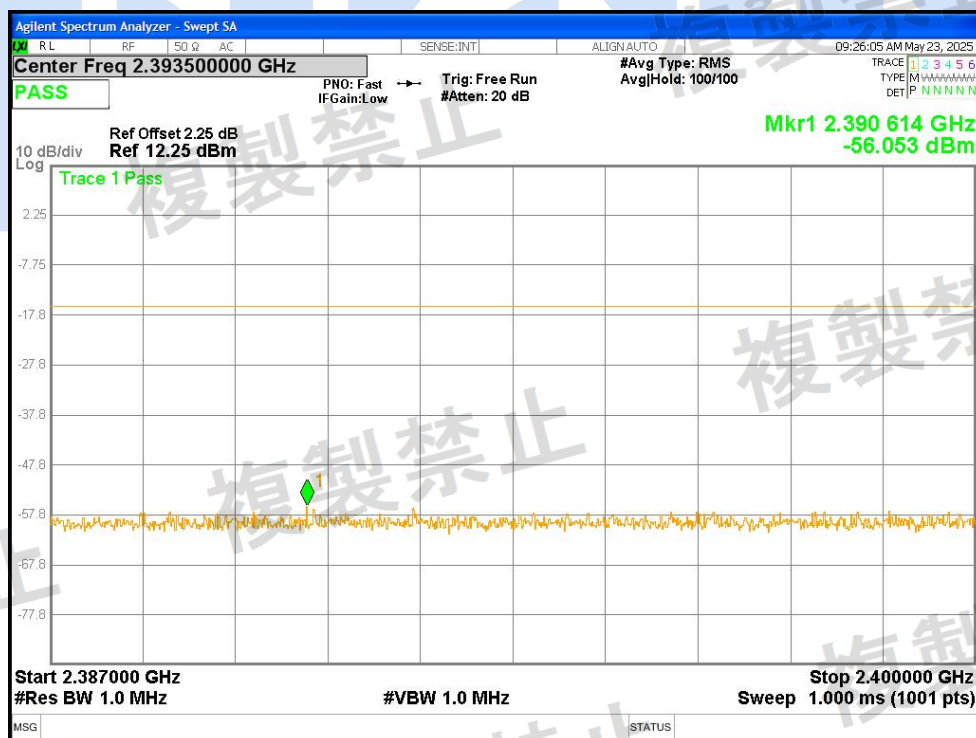
Tx. Spurious NVNT 2-DH5 2480MHz Ant1 @ 2496.5MHz-13000MHz



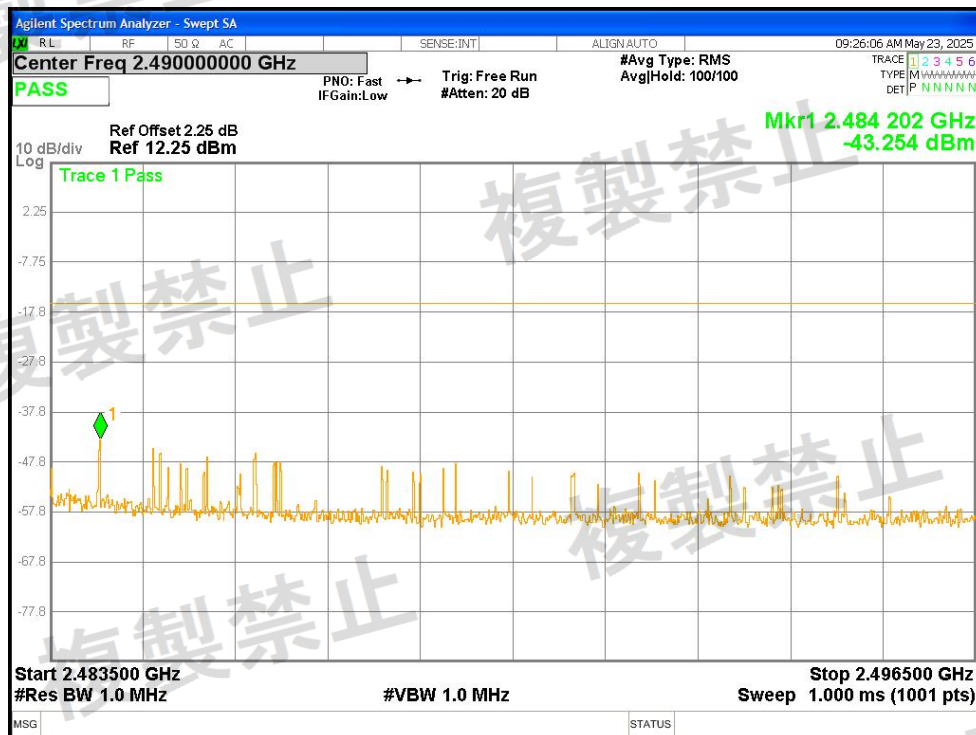
Tx. Spurious NVNT 3-DH5 2402MHz Ant1 @ 30MHz-1000MHz



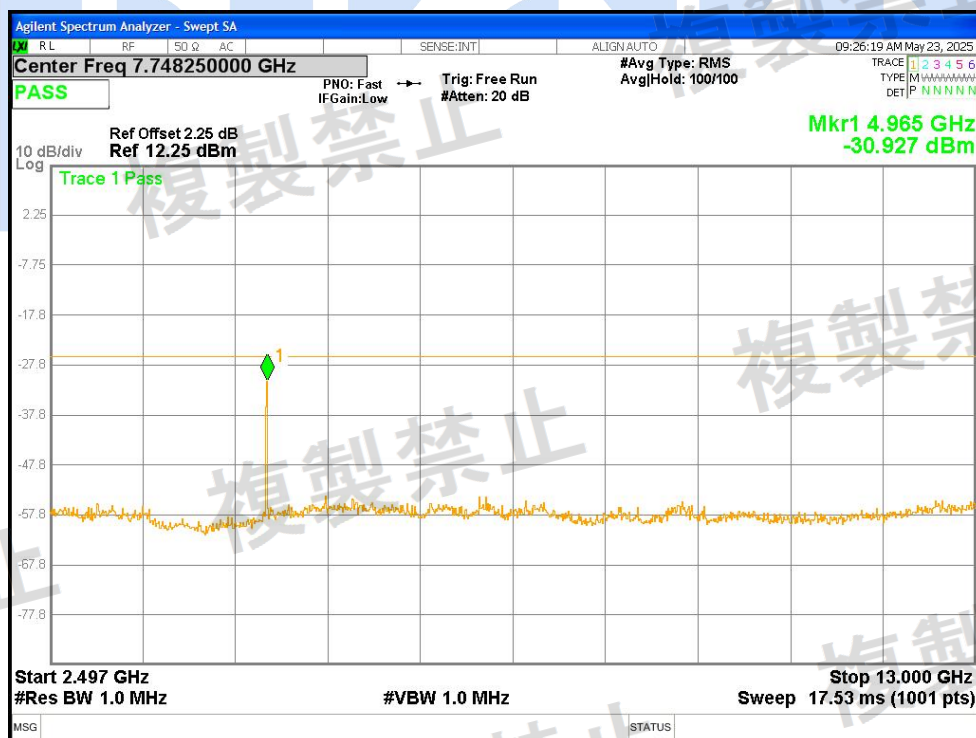
Tx. Spurious NVNT 3-DH5 2402MHz Ant1 @ 1000MHz-2387MHz



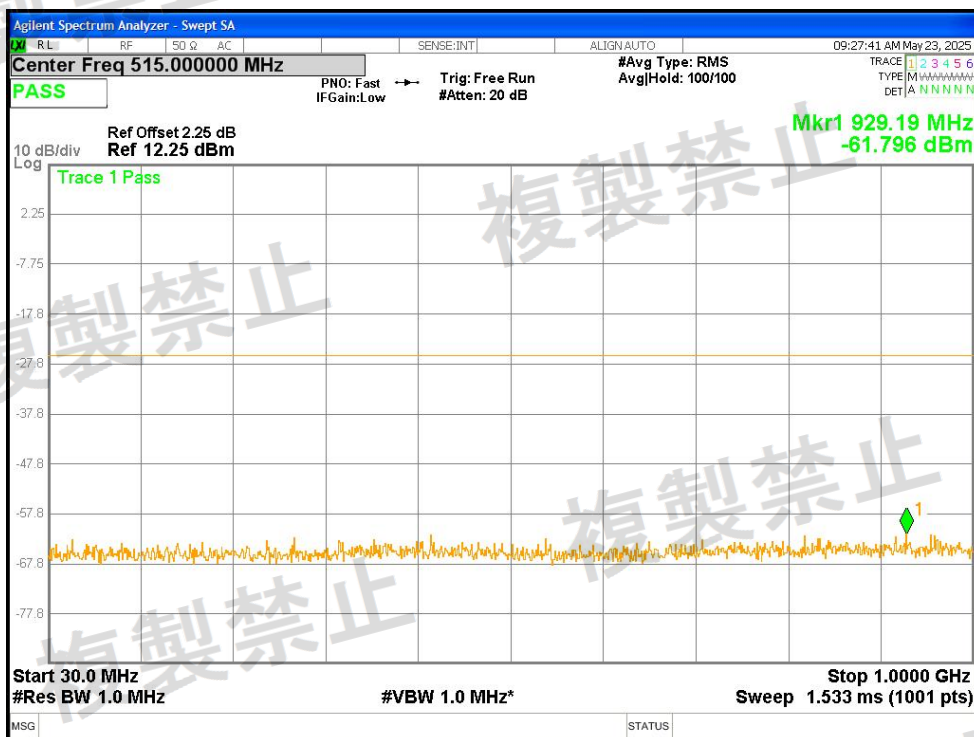
Tx. Spurious NVNT 3-DH5 2402MHz Ant1 @ 2387MHz-2400MHz



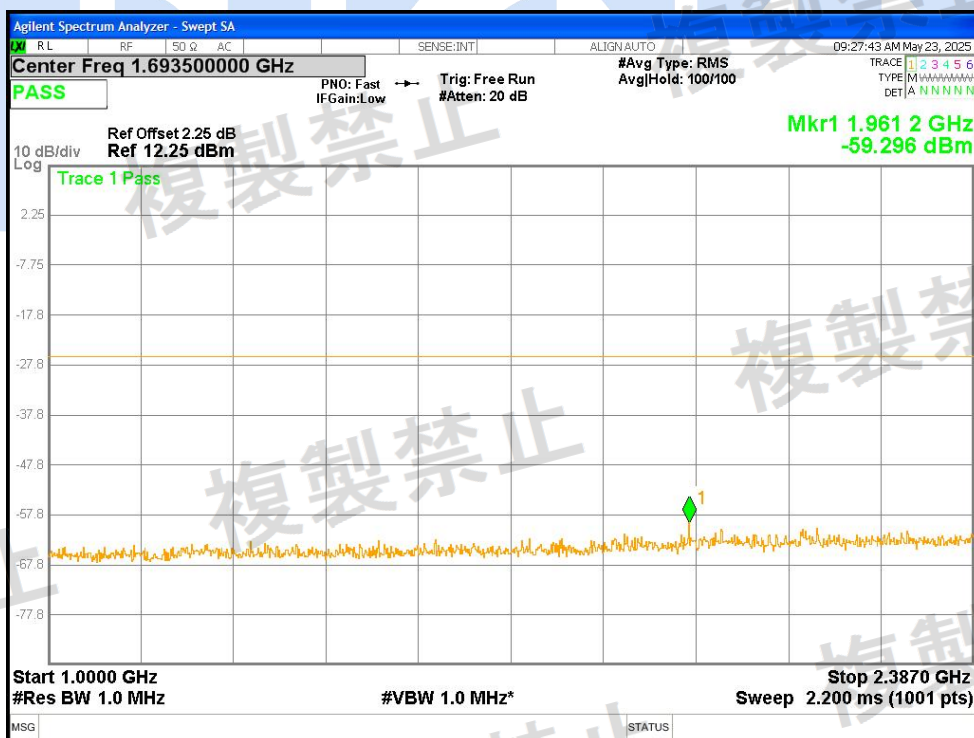
Tx. Spurious NVNT 3-DH5 2402MHz Ant1 @ 2483.5MHz-2496.5MHz



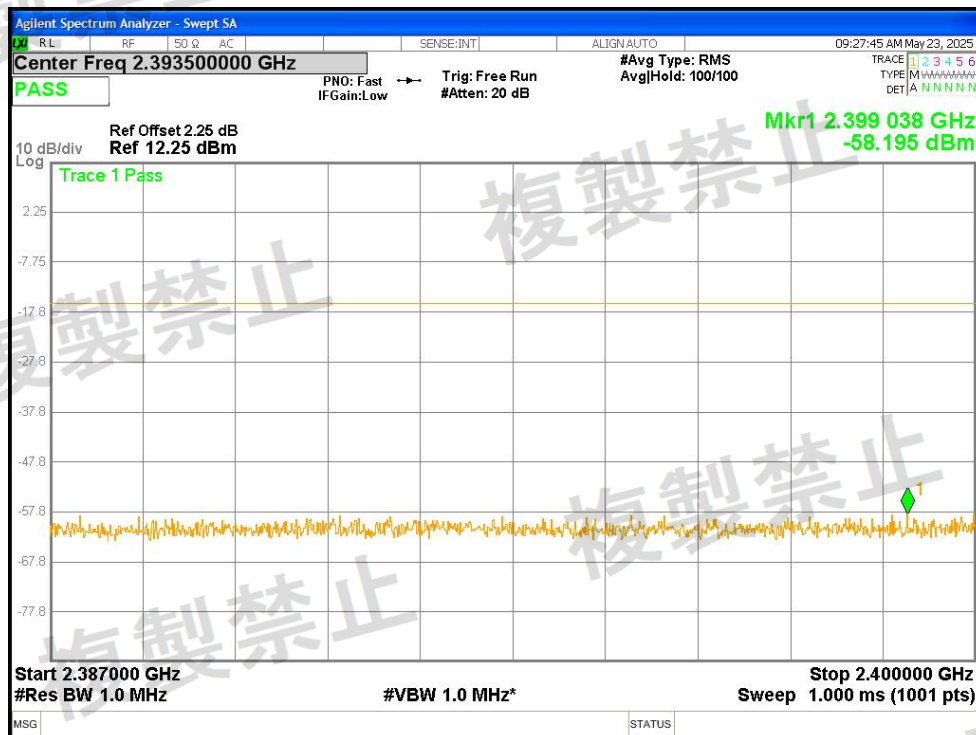
Tx. Spurious NVNT 3-DH5 2402MHz Ant1 @ 2496.5MHz-13000MHz



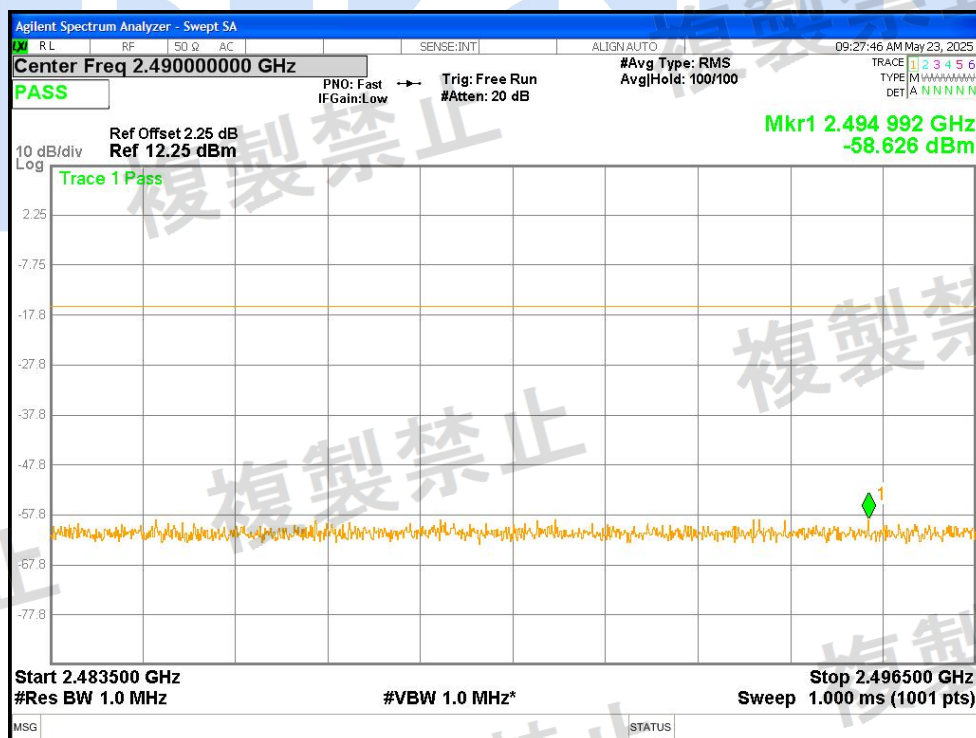
Tx. Spurious NVNT 3-DH5 2441MHz Ant1 @ 30MHz-1000MHz



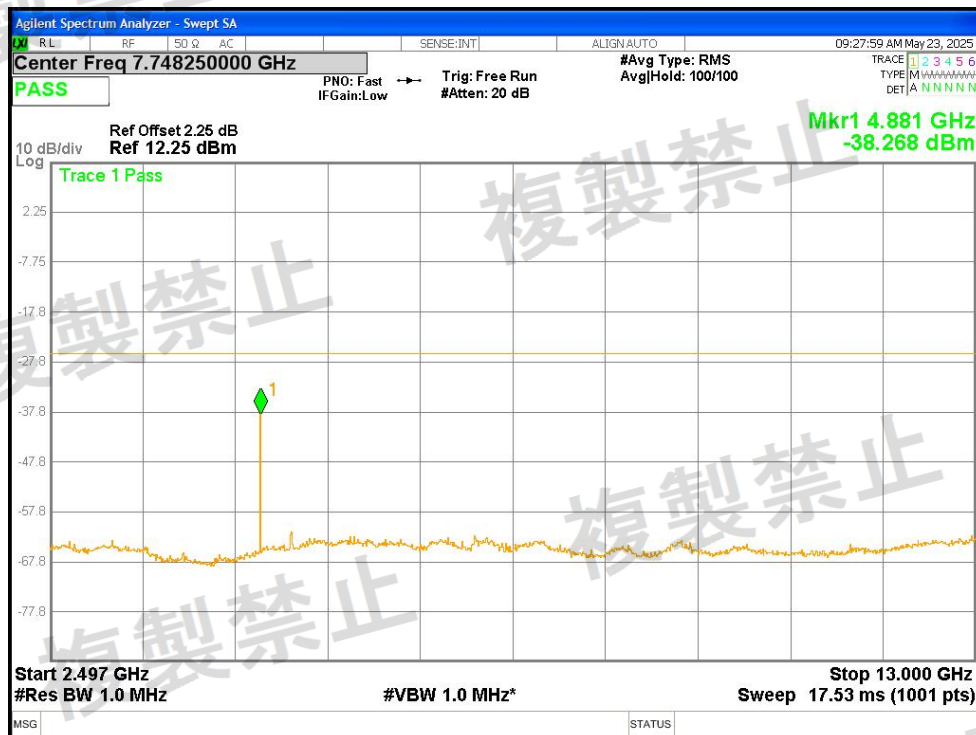
Tx. Spurious NVNT 3-DH5 2441MHz Ant1 @ 1000MHz-2387MHz



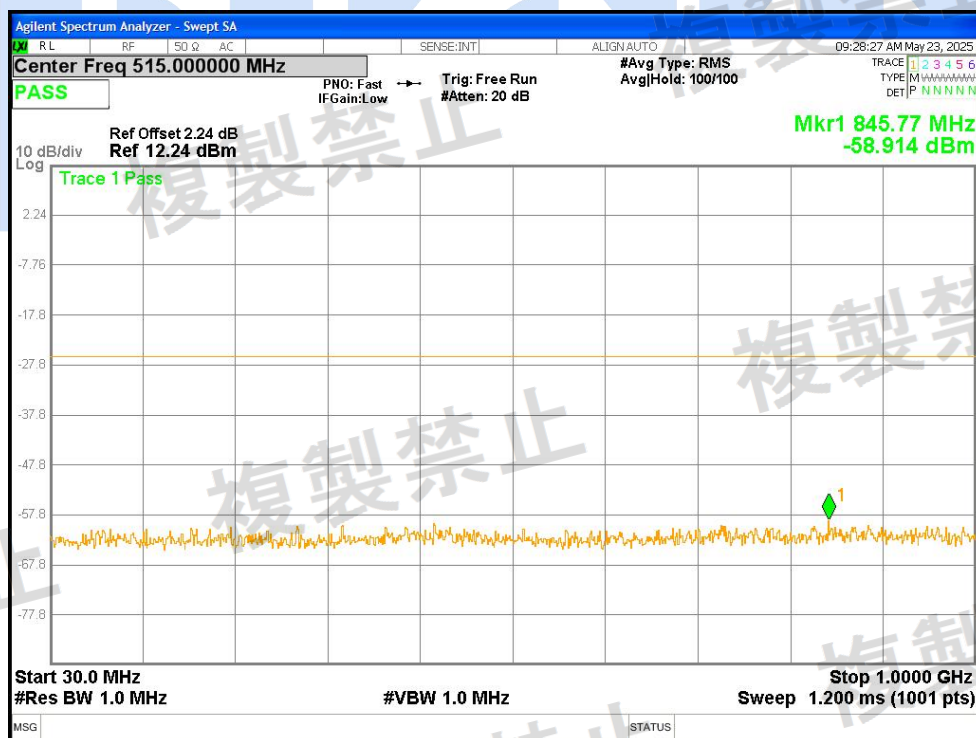
Tx. Spurious NVNT 3-DH5 2441MHz Ant1 @ 2387MHz-2400MHz



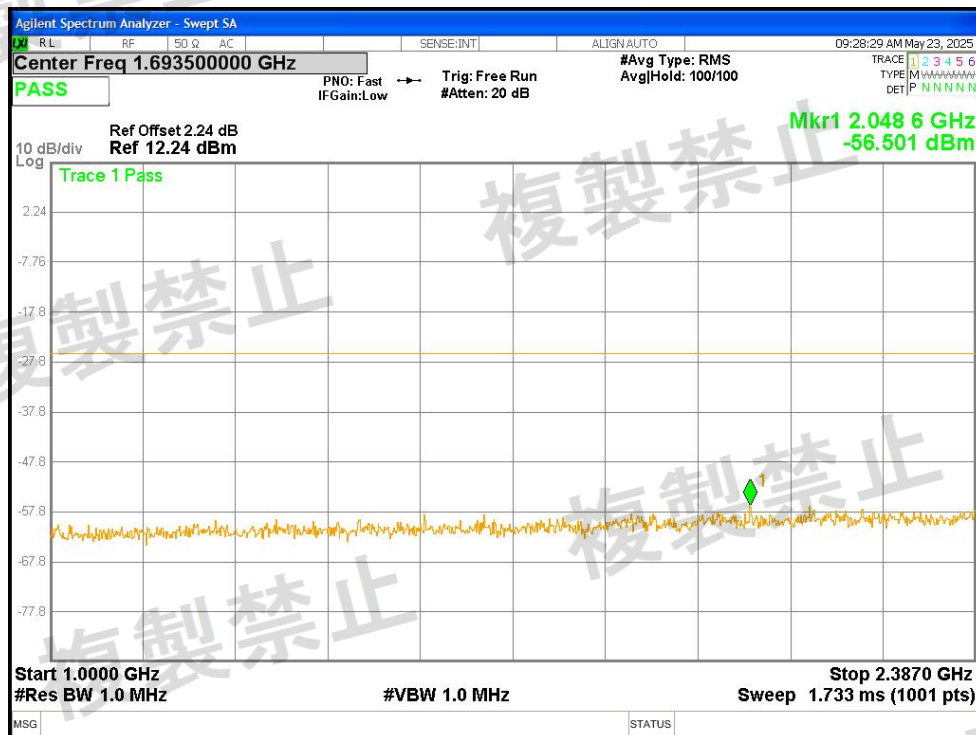
Tx. Spurious NVNT 3-DH5 2441MHz Ant1 @ 2483.5MHz-2496.5MHz



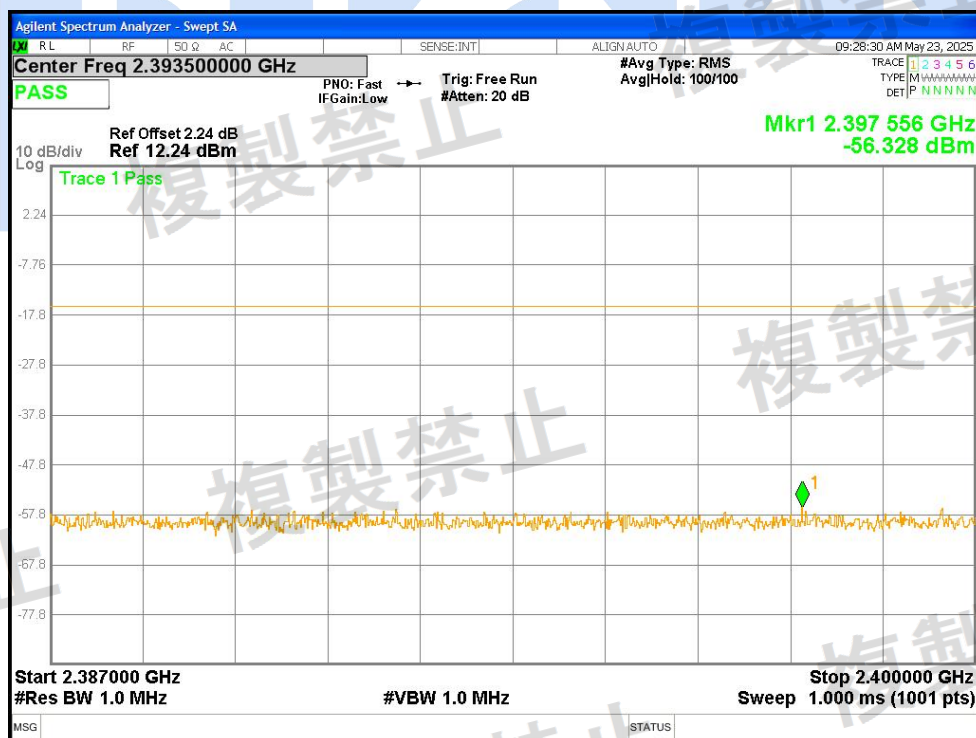
Tx. Spurious NVNT 3-DH5 2441MHz Ant1 @ 2496.5MHz-13000MHz



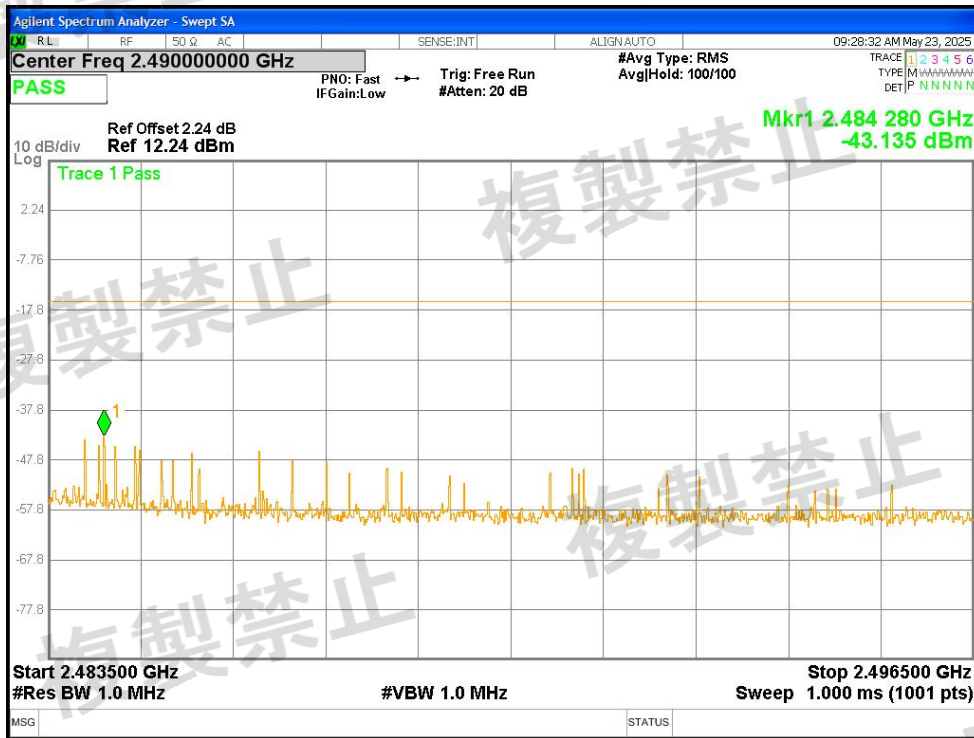
Tx. Spurious NVNT 3-DH5 2480MHz Ant1 @ 30MHz-1000MHz



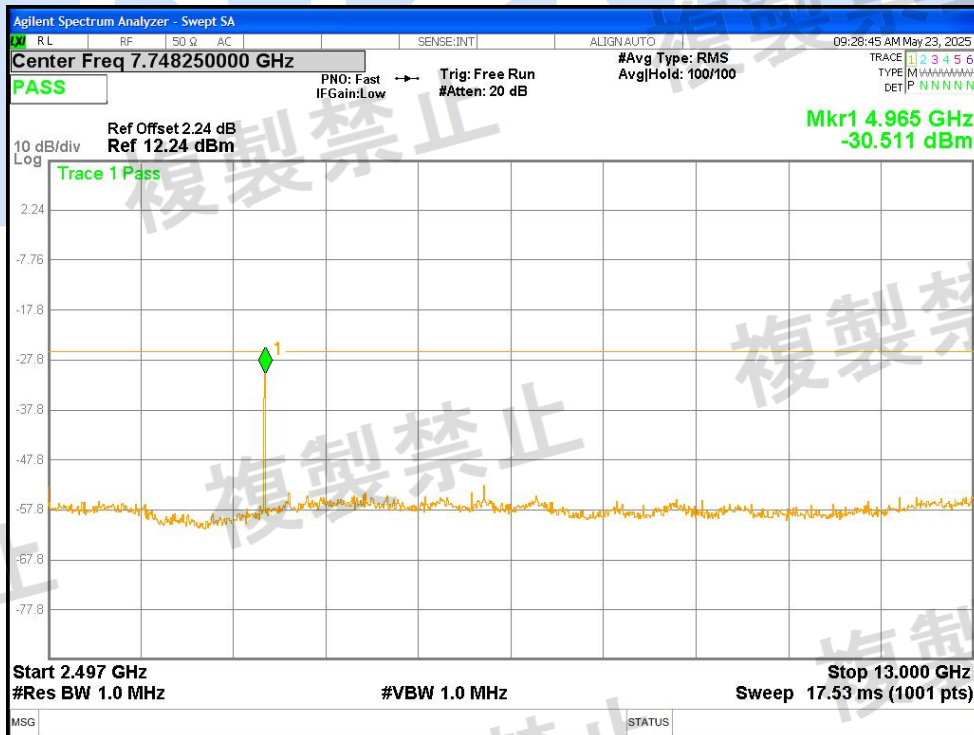
Tx. Spurious NVNT 3-DH5 2480MHz Ant1 @ 1000MHz-2387MHz



Tx. Spurious NVNT 3-DH5 2480MHz Ant1 @ 2387MHz-2400MHz



Tx. Spurious NVNT 3-DH5 2480MHz Ant1 @ 2483.5MHz-2496.5MHz



Tx. Spurious NVNT 3-DH5 2480MHz Ant1 @ 2496.5MHz-13000MHz

6. Dwell Time

6.1. Limit

Item	Limits
Hopping Freq. Dwell Time	$\leq 0.4 \text{ sec (In } 0.4 \text{ sec} \times \text{ spreading rate)}$

6.2. Test Setup



6.3. Test Procedure

- The transmitter output (antenna port) was connected to the spectrum analyzer
- Set RBW of spectrum analyzer to 1MHz and VBW to 1MHz.
- Use a video trigger with the trigger level set to enable triggering only on full pulses.
- Sweep Time is more than once pulse time.
- Set the center frequency on any frequency would be measure and set the frequency span to zero span.
- Measure the maximum time duration of one single pulse.
- Set the EUT for DH1/DH3/DH5, 2DH1/2DH3/2DH5 and 3DH1/3DH3/3DH5 packet transmitting.
- Measure the maximum time duration of one single pulse.
- Dwell time = Pulse width(msec)*Number of Pulses

6.4. Test Result

Dwell Time = (One Pulse Time * (Burst Count in the specified period time);
the specified period time = Spread factor* 0.4
Spread Spectrum Factor = Spread Spectrum Bandwidth / modulation rate of EUT

Modulation rate of EUT is below:

GFSK modulation: 1Mbps

$\pi/4$ -DQPSK modulation: 1Mbps

8DPSK modulation: 1Mbps

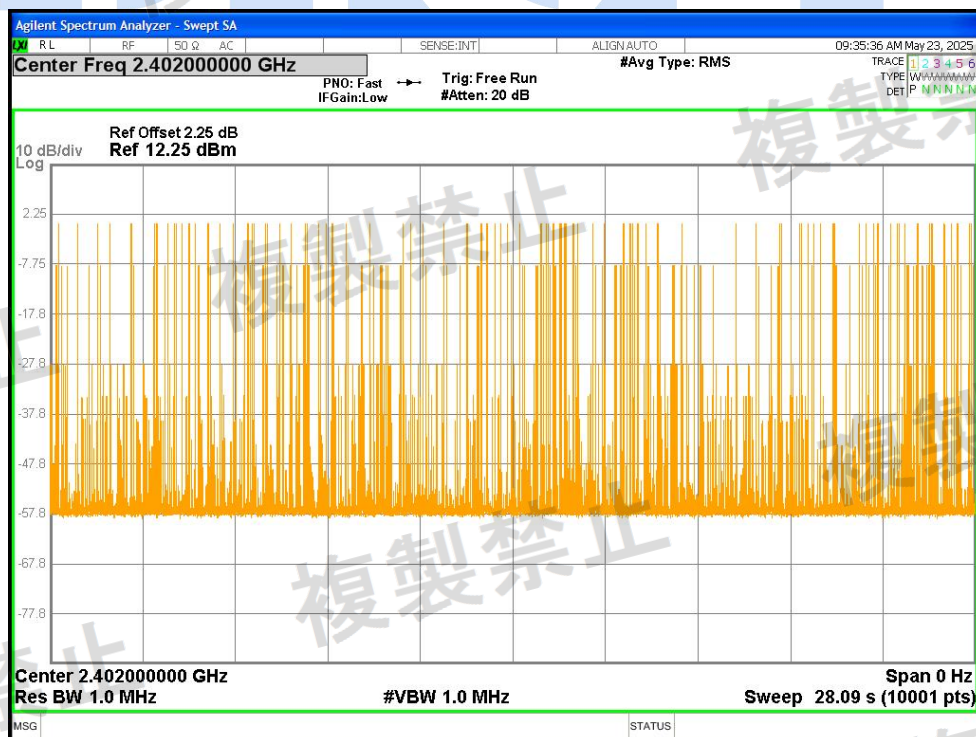
Spread Spectrum Factor = Spread Spectrum Bandwidth / Modulation Rate

Mode	Frequency (MHz)	Pulse Time (ms)	Total Time (ms)	Dwell	Burst Count	Period Time (ms)	Limit (ms)	Verdict
1-DH5	2402	2.905	278.88		96	28091.6	400	Pass
2-DH5	2402	2.891	265.972		92	28245.6	400	Pass
3-DH5	2402	2.91	296.82		102	28233.6	400	Pass

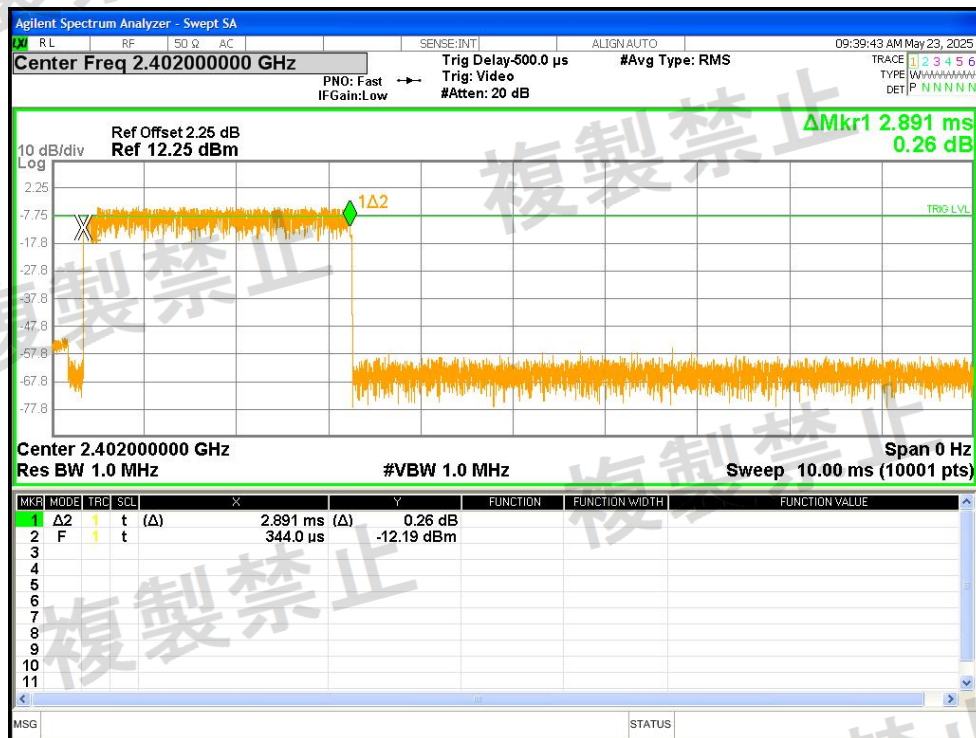
Note: All modes were tested and only data for the worst mode are reported.



Dwell NVNT 1-DH5 2402MHz Ant1 One Burst



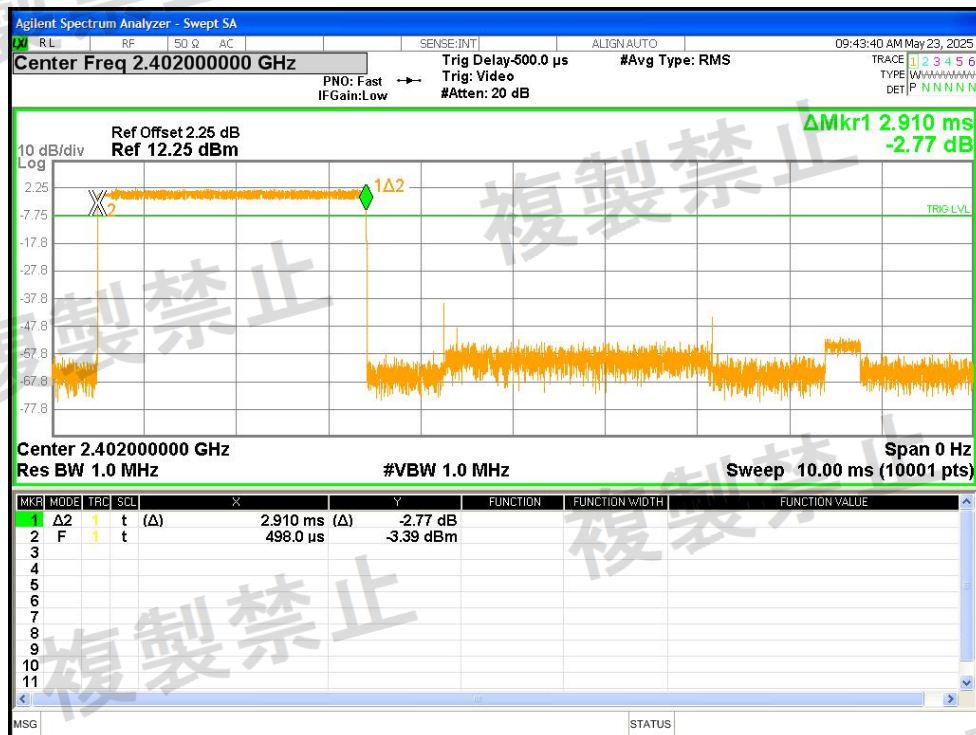
Dwell NVNT 1-DH5 2402MHz Ant1 Accumulated



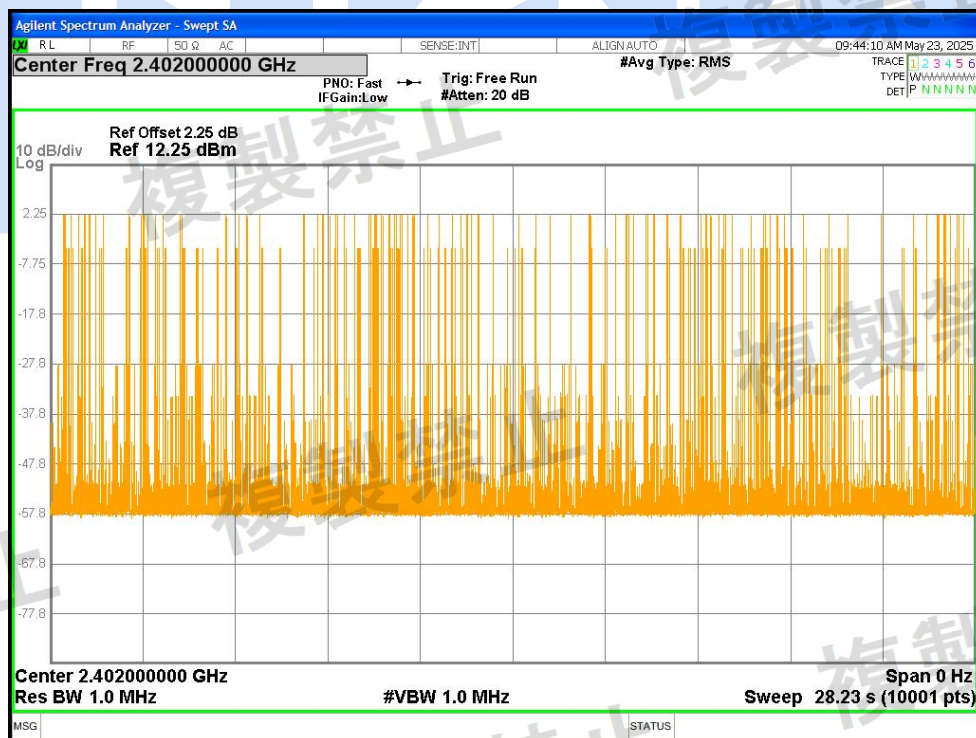
Dwell NVNT 2-DH5 2402MHz Ant1 One Burst



Dwell NVNT 2-DH5 2402MHz Ant1 Accumulated



Dwell NVNT 3-DH5 2402MHz Ant1 One Burst



Dwell NVNT 3-DH5 2402MHz Ant1 Accumulated

7. Secondary Radiated Emissions

7.1. Limit

Item	Limit
RX Spurious Emission	$\leq 4 \text{ nW}$ (Below 1GHz)
	$\leq 20 \text{ nW}$ (Above 1GHz)

7.2. Test Setup



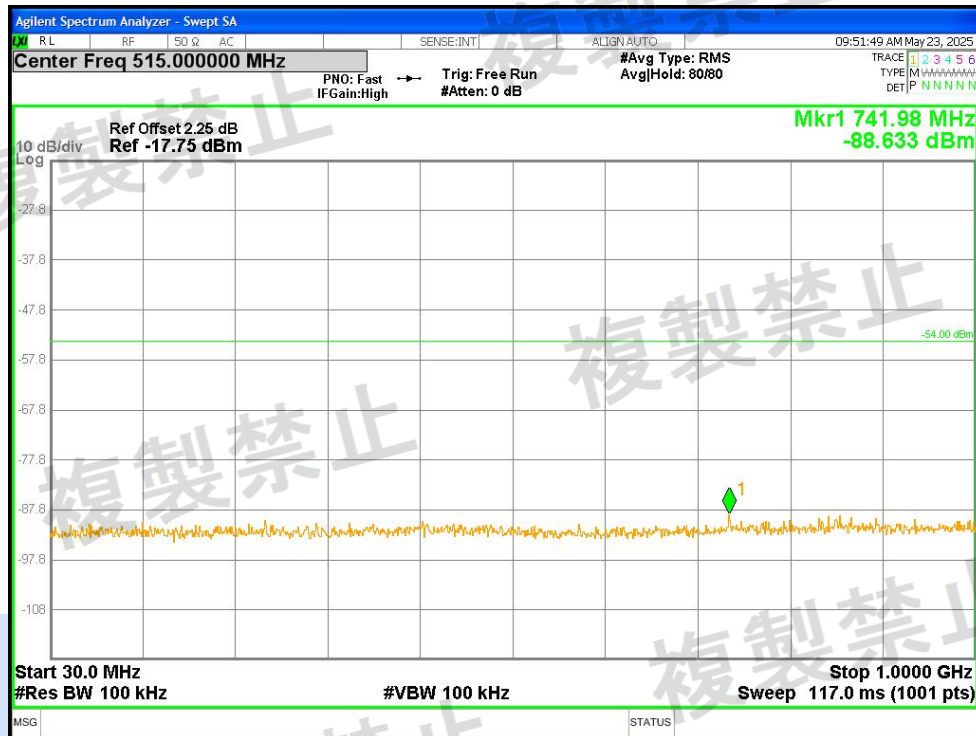
7.3. Test Procedure

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: 10dB / Ref: 0dBm / 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.

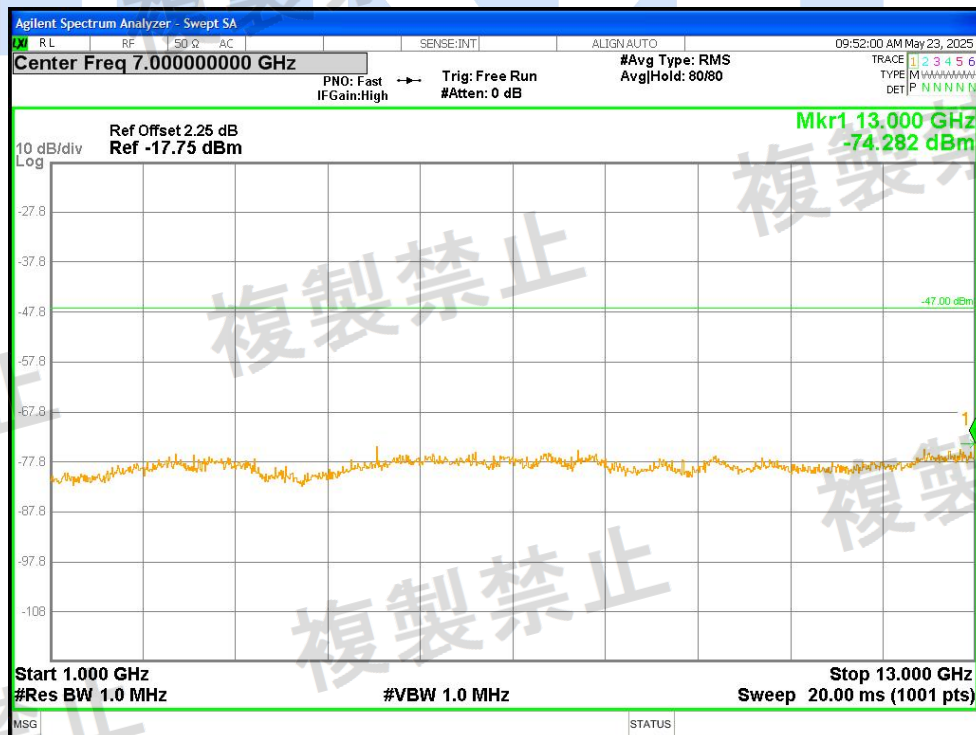
7.4. Test Result

Mode	Frequency (MHz)	Antenna	Range (MHz)	Emission Frequency (MHz)	Max Value (dBm)	Limit (dBm)	Verdict
1-DH5	2402	Ant1	30-1000	741.98	-88.63	-54	Pass
1-DH5	2402	Ant1	1000-13000	13000	-74.28	-47	Pass
1-DH5	2441	Ant1	30-1000	867.11	-88.44	-54	Pass
1-DH5	2441	Ant1	1000-13000	8068	-74.73	-47	Pass
1-DH5	2480	Ant1	30-1000	972.84	-89.25	-54	Pass
1-DH5	2480	Ant1	1000-13000	5236	-71.23	-47	Pass
2-DH5	2402	Ant1	30-1000	853.53	-89.34	-54	Pass
2-DH5	2402	Ant1	1000-13000	5236	-70.51	-47	Pass
2-DH5	2441	Ant1	30-1000	925.31	-89.12	-54	Pass
2-DH5	2441	Ant1	1000-13000	5236	-70.54	-47	Pass
2-DH5	2480	Ant1	30-1000	949.56	-87.61	-54	Pass
2-DH5	2480	Ant1	1000-13000	6988	-75.12	-47	Pass
3-DH5	2402	Ant1	30-1000	986.42	-89.24	-54	Pass
3-DH5	2402	Ant1	1000-13000	12952	-75.34	-47	Pass

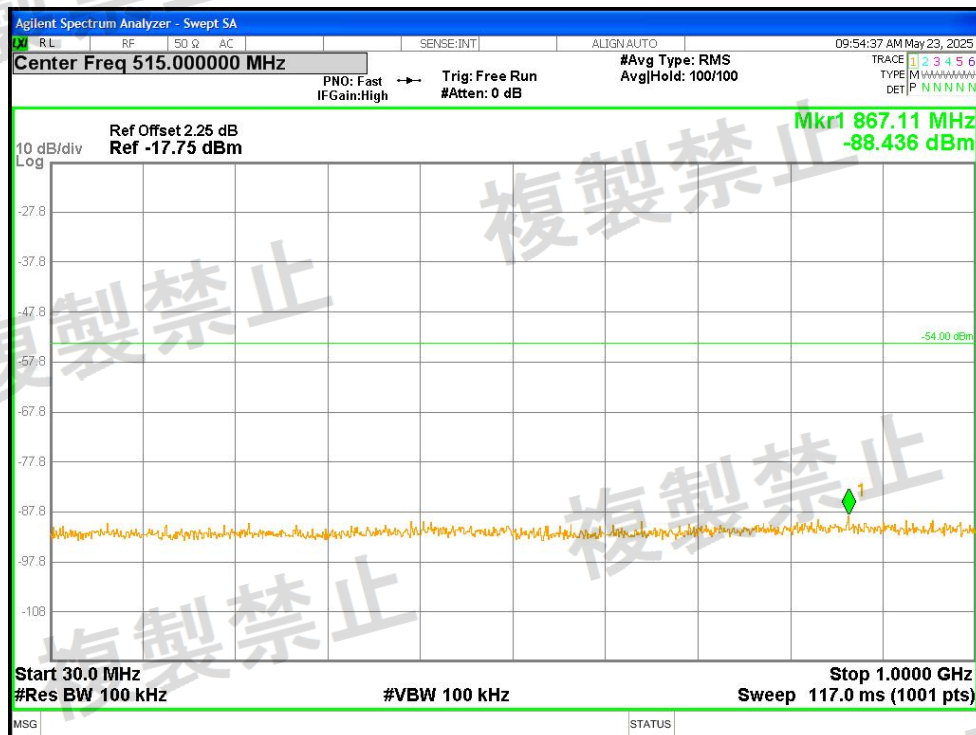
3-DH5	2441	Ant1	30-1000	995.15	-88.53	-54	Pass
3-DH5	2441	Ant1	1000-13000	5236	-71.08	-47	Pass
3-DH5	2480	Ant1	30-1000	741.98	-88.47	-54	Pass
3-DH5	2480	Ant1	1000-13000	12568	-74.7	-47	Pass



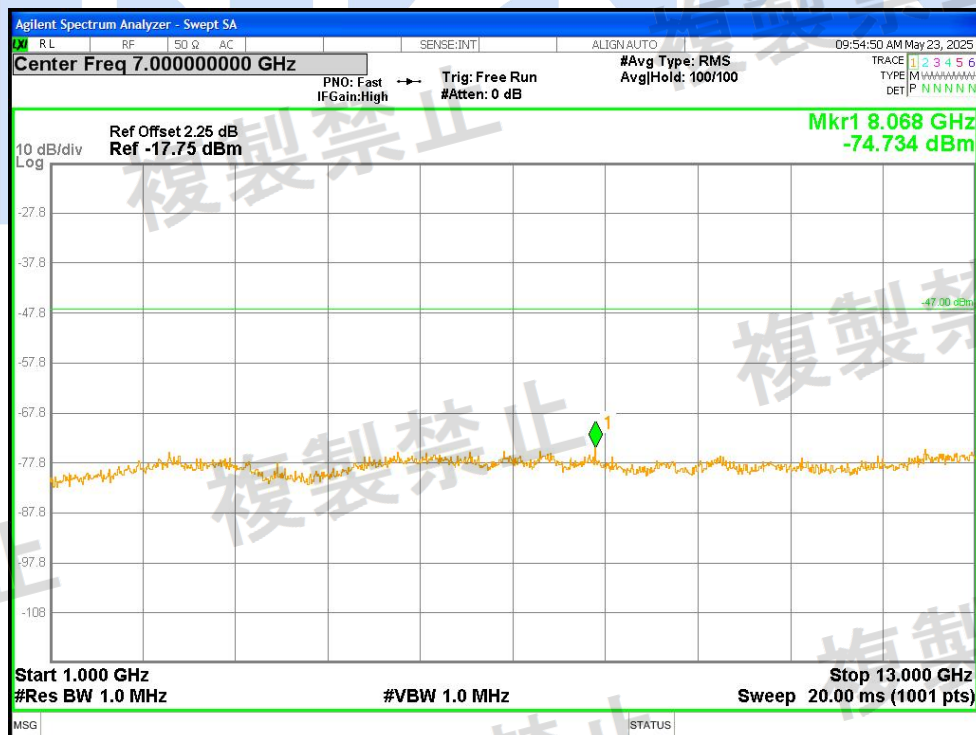
Rx. Spurious NVNT 1-DH5 2402MHz Ant1 @ 30MHz-1000MHz



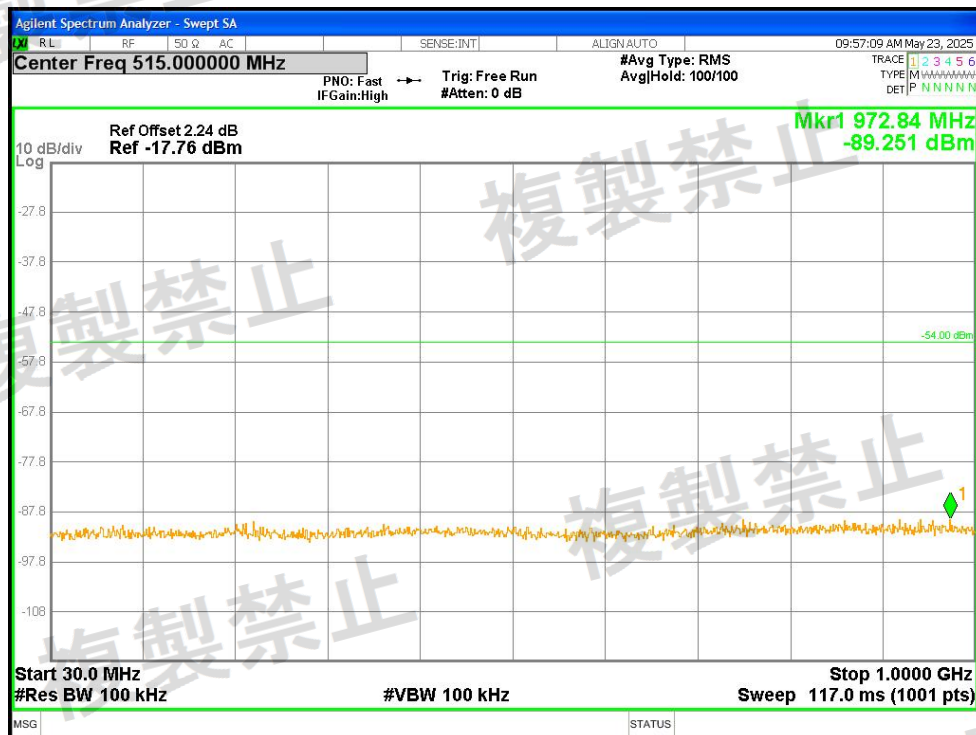
Rx. Spurious NVNT 1-DH5 2402MHz Ant1 @ 1000MHz-13000MHz



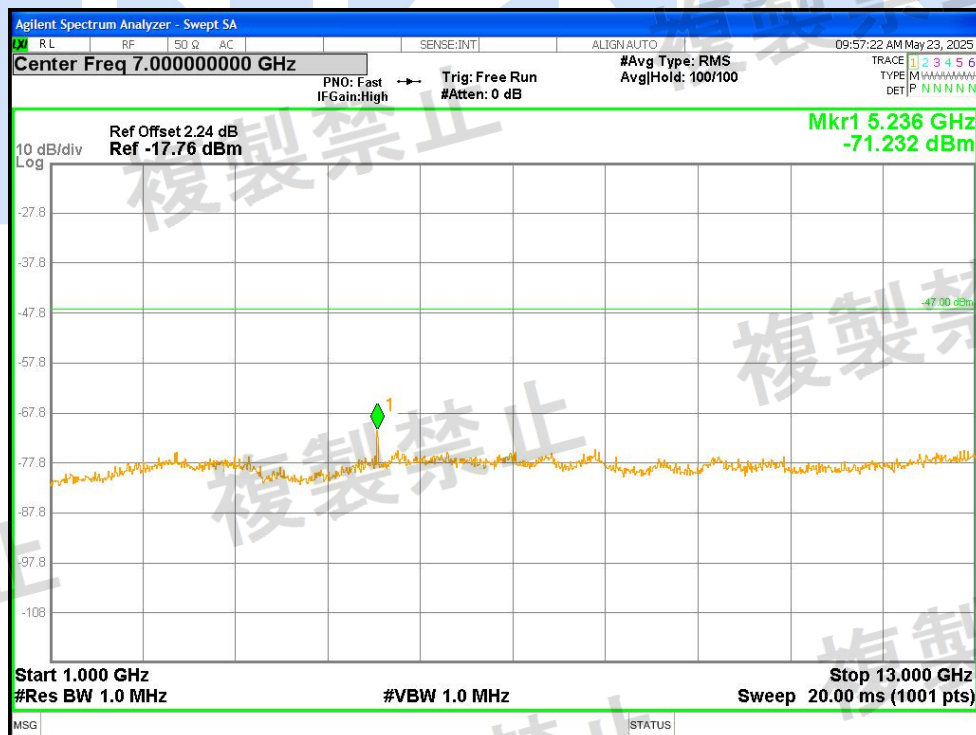
Rx. Spurious NVNT 1-DH5 2441MHz Ant1 @ 30MHz-1000MHz



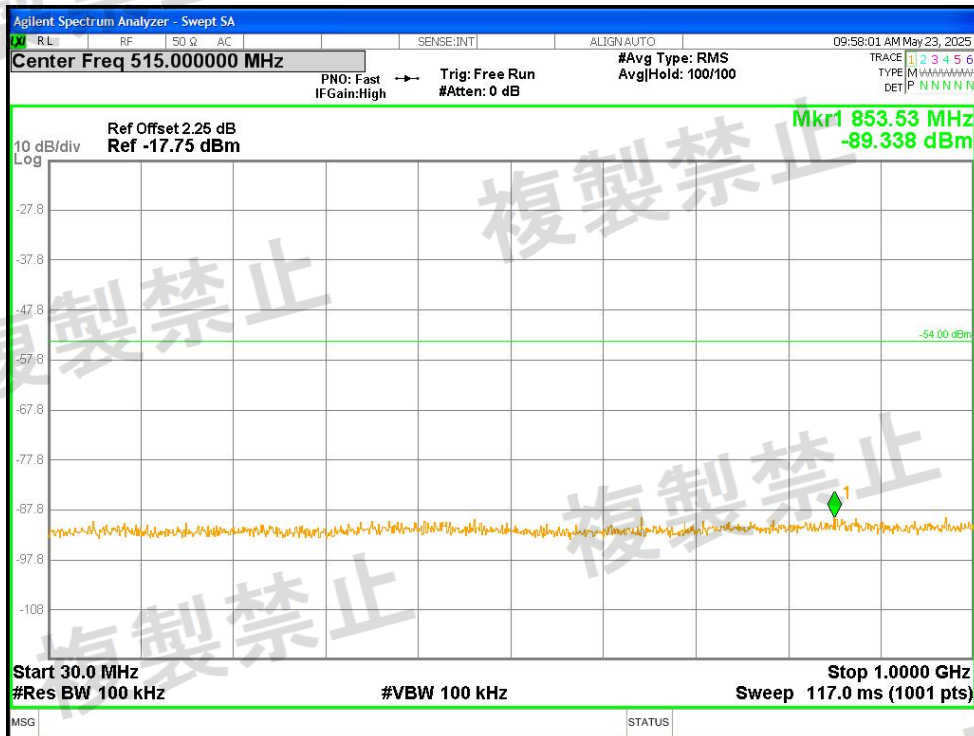
Rx. Spurious NVNT 1-DH5 2441MHz Ant1 @ 1000MHz-13000MHz



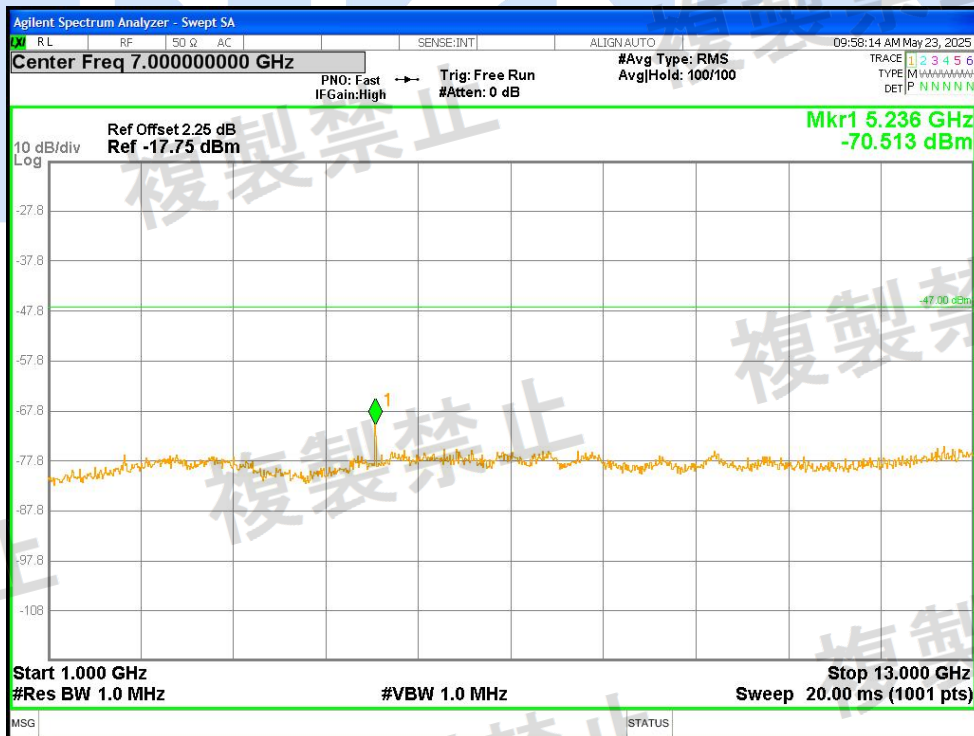
Rx. Spurious NVNT 1-DH5 2480MHz Ant1 @ 30MHz-1000MHz



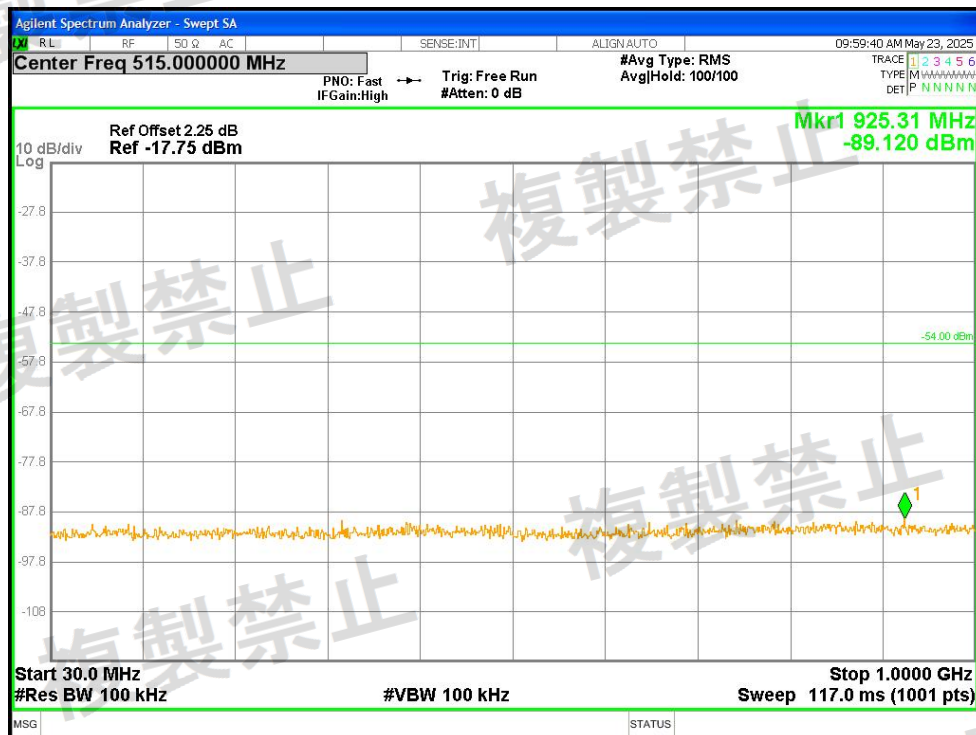
Rx. Spurious NVNT 1-DH5 2480MHz Ant1 @ 1000MHz-13000MHz



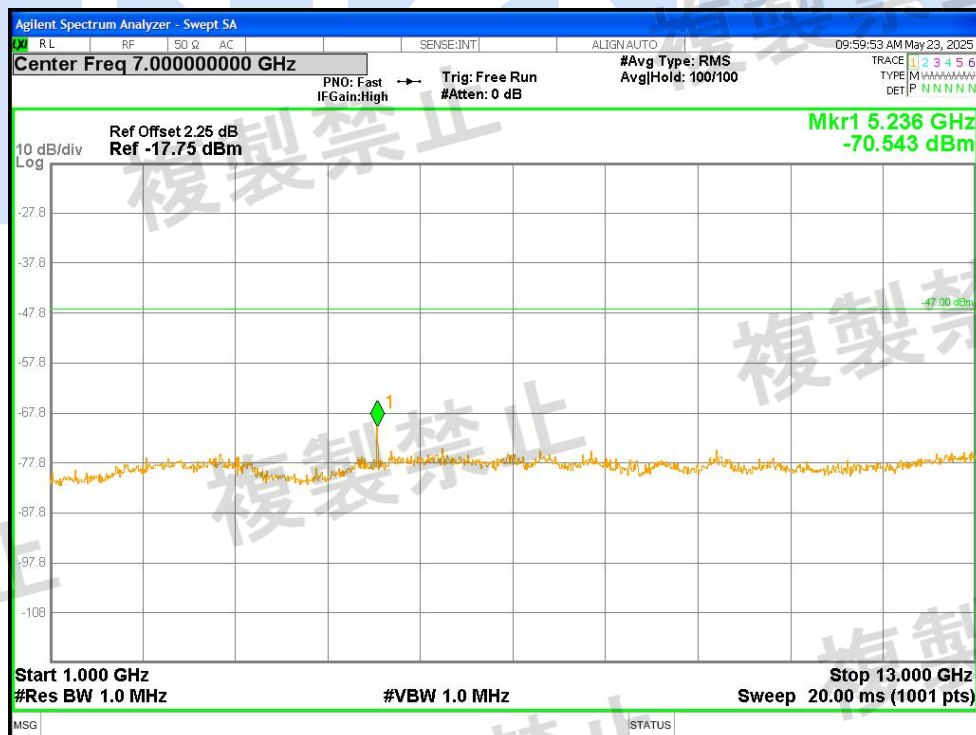
Rx. Spurious NVNT 2-DH5 2402MHz Ant1 @ 30MHz-1000MHz



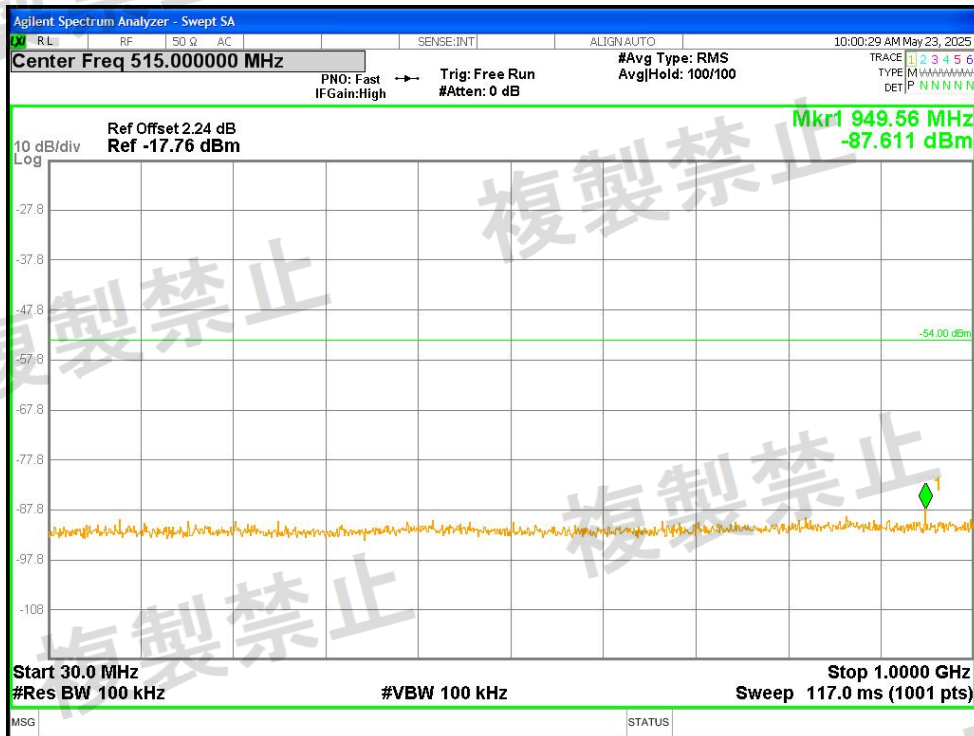
Rx. Spurious NVNT 2-DH5 2402MHz Ant1 @ 1000MHz-13000MHz



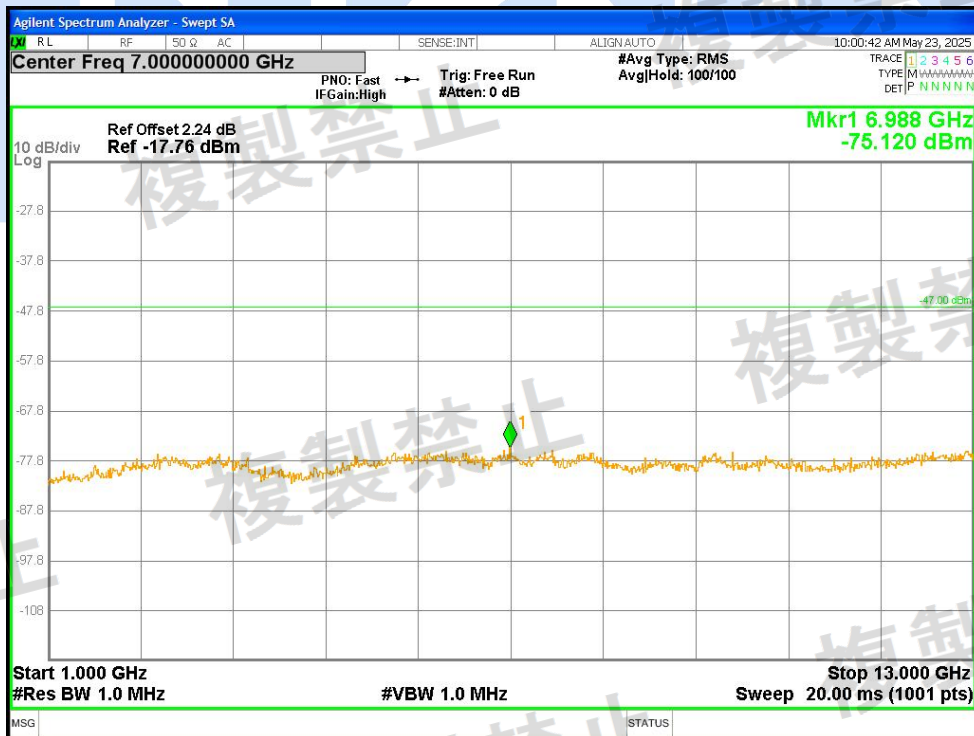
Rx. Spurious NVNT 2-DH5 2441MHz Ant1 @ 30MHz-1000MHz



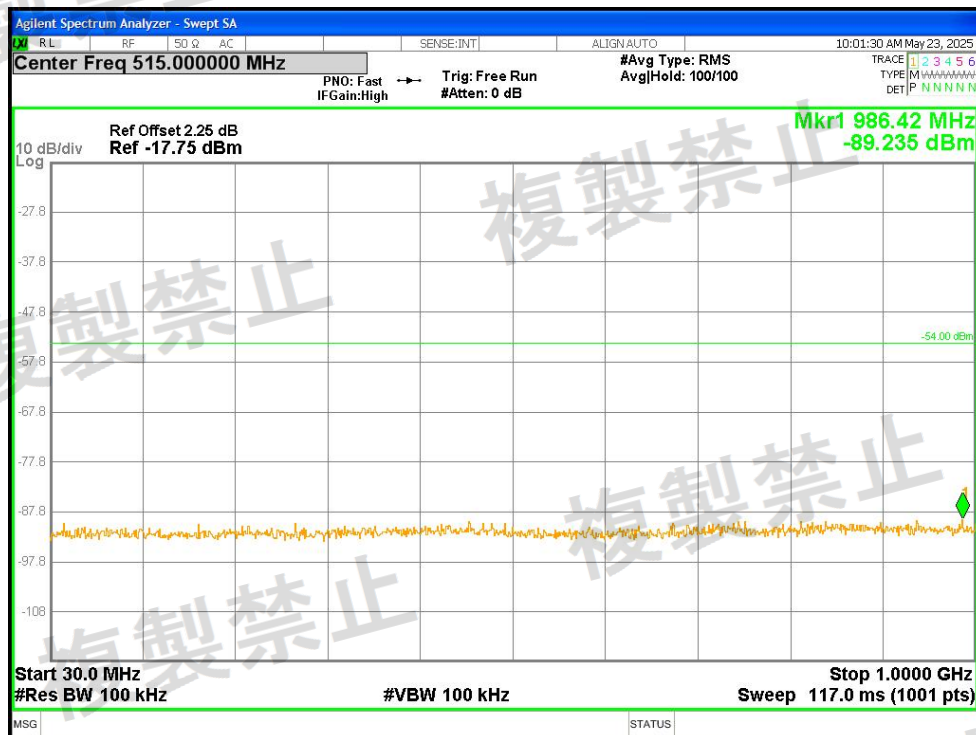
Rx. Spurious NVNT 2-DH5 2441MHz Ant1 @ 1000MHz-13000MHz



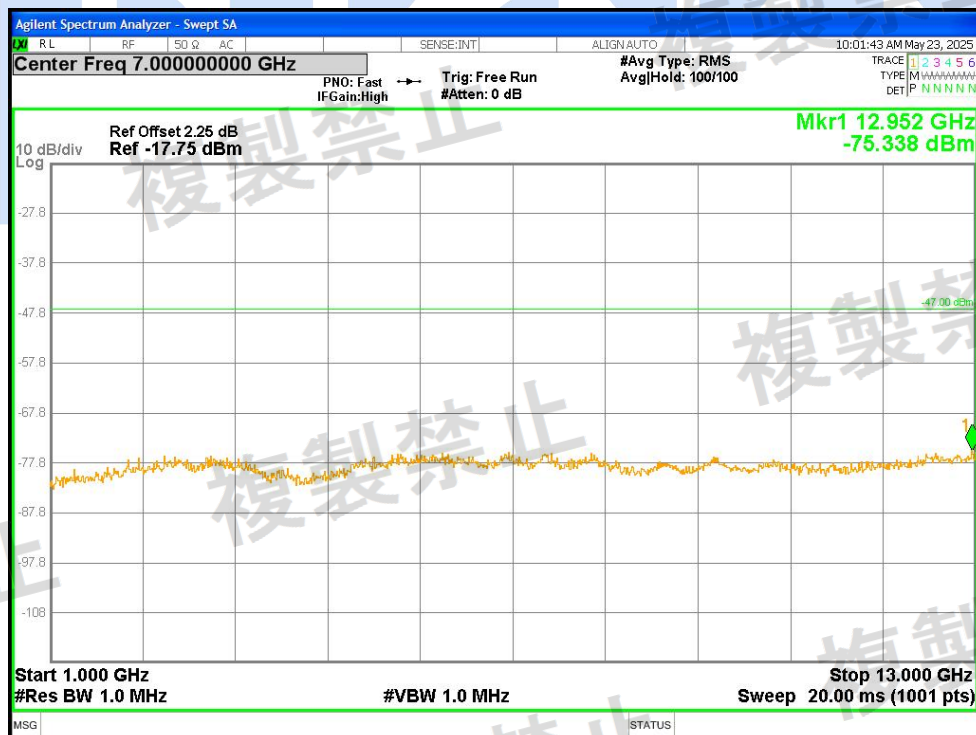
Rx. Spurious NVNT 2-DH5 2480MHz Ant1 @ 30MHz-1000MHz



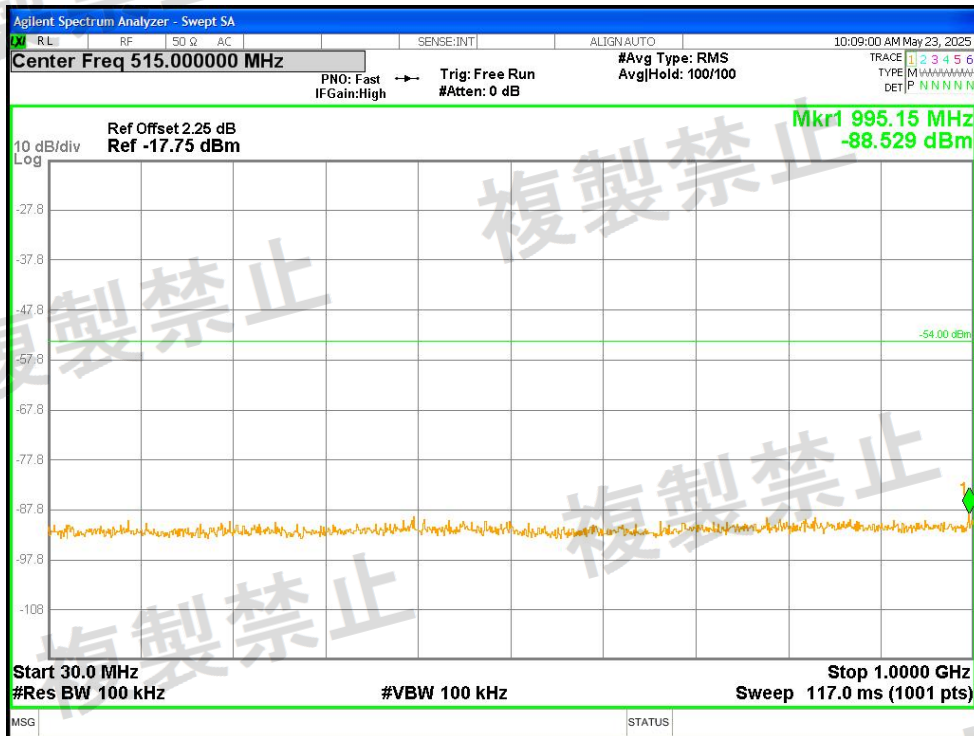
Rx. Spurious NVNT 2-DH5 2480MHz Ant1 @ 1000MHz-13000MHz



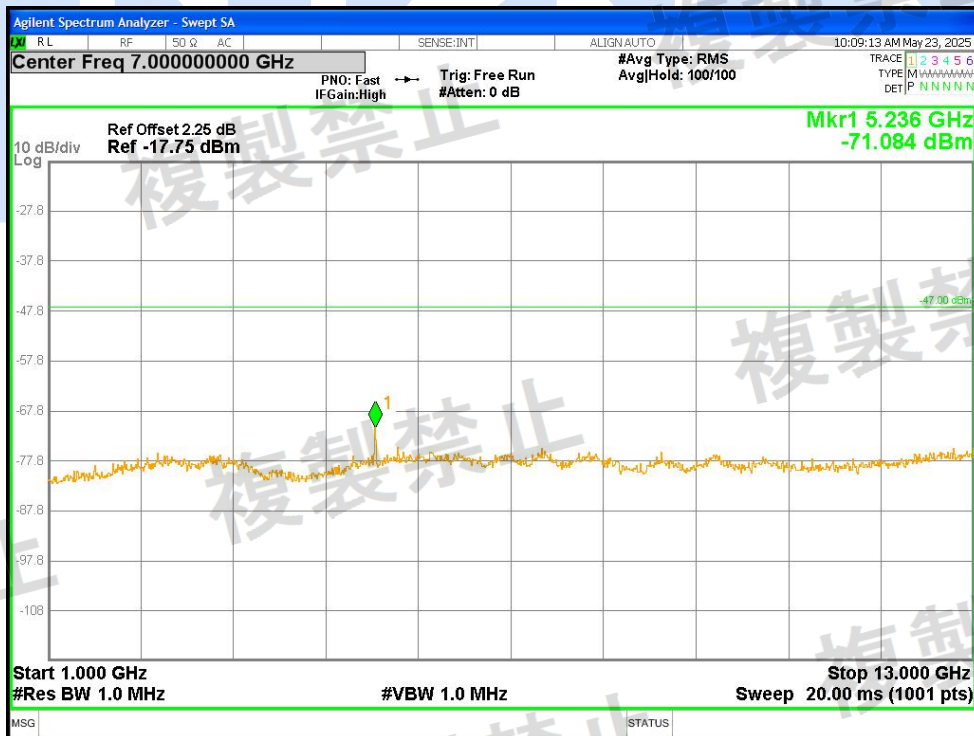
Rx. Spurious NVNT 3-DH5 2402MHz Ant1 @ 30MHz-1000MHz



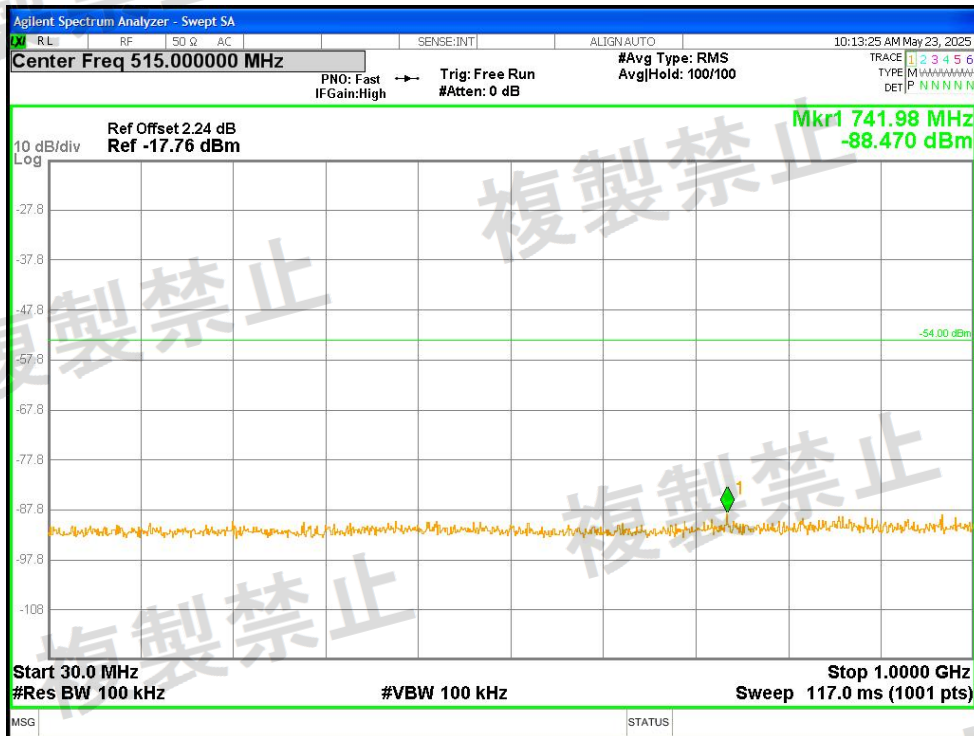
Rx. Spurious NVNT 3-DH5 2402MHz Ant1 @ 1000MHz-13000MHz



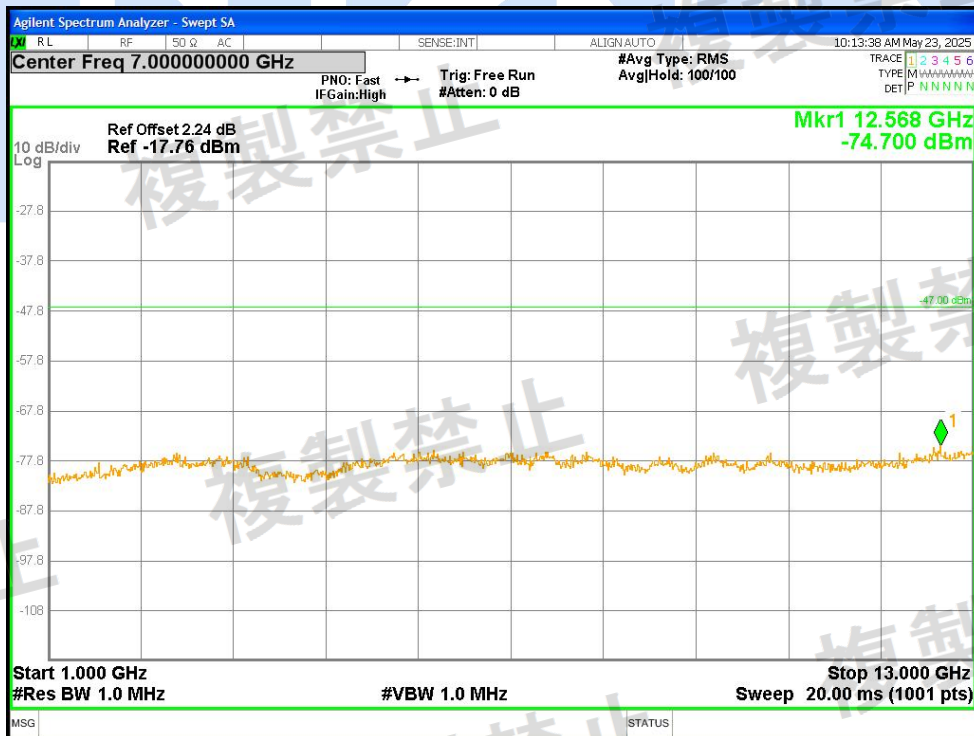
Rx. Spurious NVNT 3-DH5 2441MHz Ant1 @ 30MHz-1000MHz



Rx. Spurious NVNT 3-DH5 2441MHz Ant1 @ 1000MHz-13000MHz



Rx. Spurious NVNT 3-DH5 2480MHz Ant1 @ 30MHz-1000MHz



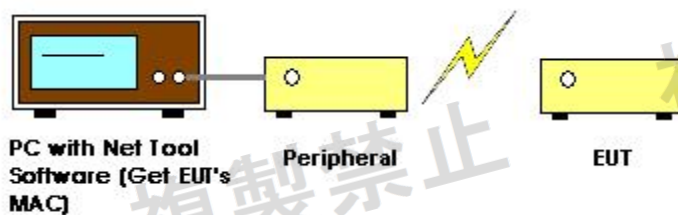
Rx. Spurious NVNT 3-DH5 2480MHz Ant1 @ 1000MHz-13000MHz

8. Interference prevention function

8.1. Limit

Item	Limits
Identification code	≥ 48 bits

8.2. Test Setup

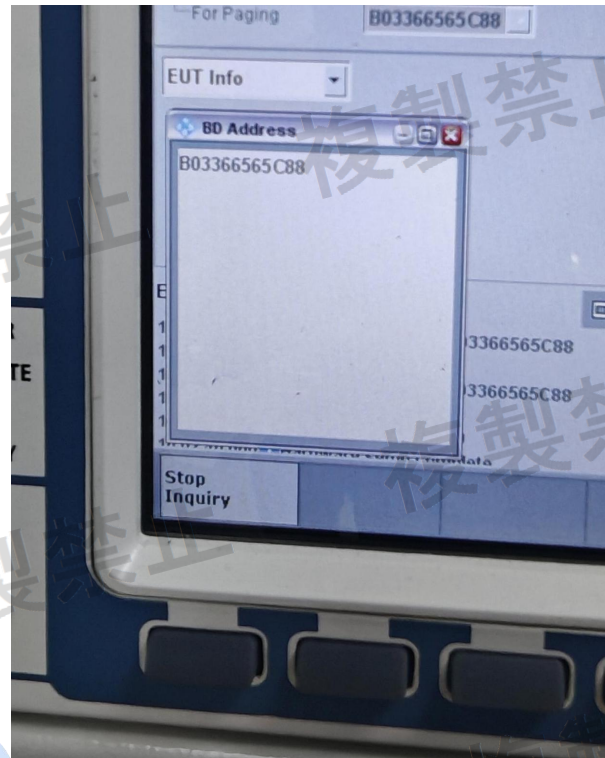


8.3. Test Procedure

- 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.
- 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.

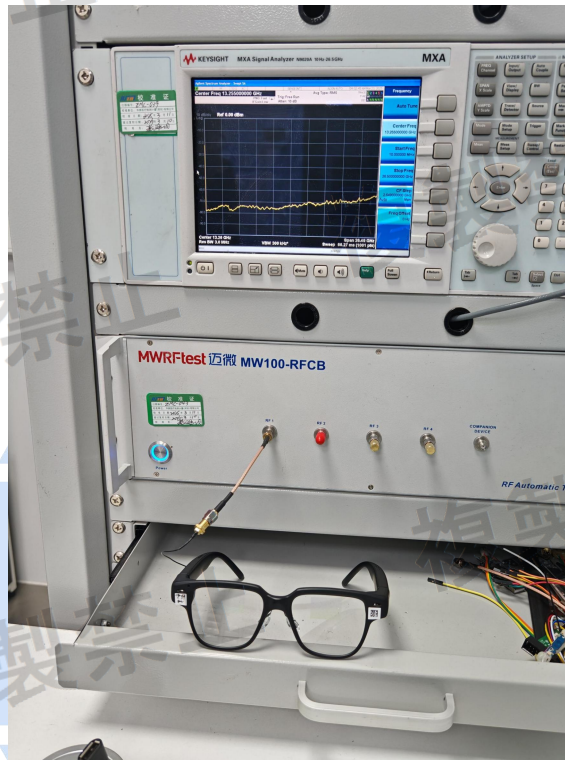
8.4. Test Result

EUT BD Address plot:



9. Test Photographs

Normal Conditions



10. Photos of the EUT

Reference to the appendix Photos.