

JAPAN MIC RF TEST REPORT

Applicant	:	Xiaomi Communications Co., Ltd.
Address	:	#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, 100085, China
Manufacturer	:	Xiaomi Communications Co., Ltd.
Address	:	#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, 100085, China
Trade Name	:	Xiaomi, MI, Mijia
Equipment under Test	:	Robotic Vacuum Cleaner
Model No.	:	PV51
Report No.	:	LS-R26051112-1F01
Issue Date	:	Jun. 05, 2026

LabSure Testing Services (Suzhou) Co., Ltd.



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TEST REPORT DECLARE

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Trade Name	:	Xiaomi, MI, Mijia

Standard: MIC Article 2, Paragraph 1, Item 19.

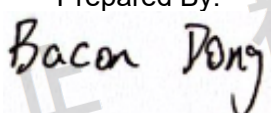
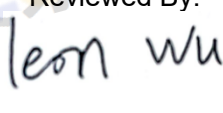
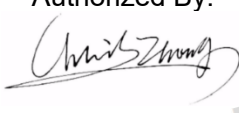
Test method: MIC Notification 88, Appendix No. 43.

We Declare:

The equipment described above is tested by LabSure Testing Services (Suzhou) Co., Ltd. and in the configuration tested the equipment complied with the standards specified above. The test results are contained in this test report and LabSure Testing Services (Suzhou) Co., Ltd. is assumed of full responsibility for the accuracy and completeness of these tests.

After test and evaluation, our opinion is that the equipment provided for test compliance with the requirement of the above standard.

Report No.:	LS-R26051112-1F01		
Sample No:	Y26051112-01		
Date of Receipt:	May. 12, 2026	Date of Test:	May. 13, 2026~ Jun. 01, 2026

Prepared By: 	Reviewed By: 	Authorized By: 
Bacon Dong/Engineer	Leon Wu/Director	Chris Zhong/Manager

Note: This report applies to above tested sample only. This report shall not be reproduced in parts without written approval of LabSure Testing Services (Suzhou) Co., Ltd. The results in this report apply to the test sample(s) mentioned above at the time of the testing period only and are not to be used to indicate applicability to other similar products. This report does not imply that the product(s) has met the criteria for certification.

The results reported herein have been performed in accordance with the laboratory's terms of accreditation.

Revision history

Rev.	Revisions	Issue Date	Revised By
V0	Initial issue	Jun. 05, 2026	

1. Summary of test results

TEST PARAMETER	STANDARD	METHOD	RESULTS
Antenna Power	MIC Article 2, Paragraph 1, Item 19	MIC Notification 88Appendix No.43	PASS
Tolerances for Antenna Power	MIC Article 2, Paragraph 1, Item 19	MIC Notification 88Appendix No.43	PASS
Frequency Tolerance	MIC Article 2, Paragraph 1, Item 19	MIC Notification 88Appendix No.43	PASS
Transmission Rate	MIC Article 2, Paragraph 1, Item 19	MIC Notification 88Appendix No.43	N/A
Occupied Frequency Bandwidth	MIC Article 2, Paragraph 1, Item 19	MIC Notification 88Appendix No.43	PASS
Spread Bandwidth	MIC Article 2, Paragraph 1, Item 19	MIC Notification 88Appendix No.43	N/A
Spreading Factor	MIC Article 2, Paragraph 1, Item 19	MIC Notification 88Appendix No.43	N/A
Number of Carriers	MIC Article 2, Paragraph 1, Item 19	MIC Notification 88Appendix No.43	N/A
Dwell Time	MIC Article 2, Paragraph 1, Item 19	MIC Notification 88Appendix No.43	N/A
Spurious Emissions	MIC Article 2, Paragraph 1, Item 19	MIC Notification 88Appendix No.43	PASS
Carrier Sense	MIC Article 2, Paragraph 1, Item 19	MIC Notification 88Appendix No.43	PASS
Process Gain	MIC Article 2, Paragraph 1, Item 19	MIC Notification 88Appendix No.43	N/A
Secondary Radiated Emissions	MIC Article 2, Paragraph 1, Item 19	MIC Notification 88Appendix No.43	PASS
Interference Prevention Function	MIC Article 2, Paragraph 1, Item 19	MIC Notification 88Appendix No.43	PASS
Note: 1) The measurement result for the sample received is <Pass> according to < MIC Article 2, Paragraph 1, Item 19 > when < Simple Acceptance > decision rule is applied. 2) N/A is an abbreviation for Not Applicable.			

2. General test information

2.1. Description of EUT

EUT Name	: Robotic Vacuum Cleaner
Model Number	: PV51
EUT Function Description	: Please reference user manual of this device
Power Supply	: AC 100-120V~50/60Hz
Radio Technology	: IEEE 802.11b/g/n/ax
Operation Frequency	: IEEE 802.11b: 2412MHz-2472MHz IEEE 802.11g: 2412MHz-2472MHz IEEE 802.11n HT20: 2412MHz-2472MHz IEEE 802.11n HT40: 2422MHz-2462MHz IEEE 802.11ax HT20: 2412MHz-2472MHz IEEE 802.11ax HT40: 2422MHz-2462MHz
Modulation	: IEEE 802.11b: DSSS (CCK, DQPSK, DBPSK) IEEE 802.11g: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n HT20, HT40: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11ax HE20: OFDMA (1024QAM, 256QAM, 64QAM, 16QAM, QPSK, BPSK) IEEE 802.11ax HE40: OFDMA (1024QAM, 256QAM, 64QAM, 16QAM, QPSK, BPSK)
Transmitter Rate	: IEEE 802.11b: 1, 2, 5.5, 11 Mbps IEEE 802.11g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps IEEE 802.11n HT20, HT40: MCS0~MCS15 IEEE 802.11ax HE20, HE40: MCS0~MCS11
Antenna Type	: PCB Antenna
Antenna Gain	: Maximum PK gain: 2.92dBi (Declare by customer and the lab isn't responsible for the value)

Note 1: EUT is the ab. of equipment under test.

Note 2: For IEEE 802.11ax mode, EUT only applies to full RU mode.

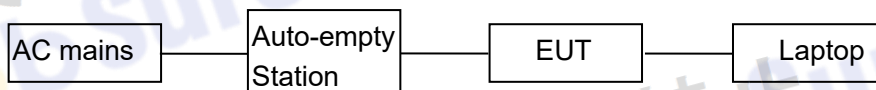
2.2. Accessories of EUT

Description of Accessories	Manufacturer	Model number	Description	Other
Auto-empty Station	Xiaomi Communications Co., Ltd.	PV51JCZ	N/A	N/A

2.3. Assistant equipment used for test

Assistant equipment	Manufacturer	Model number	EMC Compliance	Description
Notebook	Lenovo Beijing Co. Ltd.	Xiaoxin 14c RH10	CE/FCC	Supplied by lab

2.4. Block diagram of EUT configuration for test



The test software was used to control EUT work in Continuous Tx mode, and select test channel, wireless mode as below table.

Test software: Adb.EXE, Version: 1.0.40

The pathloss of external cable: 0.5dB (According to the manufacturer's claims)

Tested mode, channel, setting Tx power and rand data rate information				
Mode	Setting Tx Power	Data rate (Mbps) (see Note)	Channel	Frequency (MHz)
IEEE 802.11b	15	1	Low: CH1	2412
	15	1	Middle: CH7	2442
	12	1	High: CH13	2472
IEEE 802.11g	9	6	Low: CH1	2412
	9	6	Middle: CH7	2442
	8	6	High: CH13	2472
IEEE 802.11n HT20	8	MCS 0	Low: CH1	2412
	9	MCS 0	Middle: CH7	2442
	9	MCS 0	High: CH13	2472
IEEE 802.11n HT40	10	MCS 0	Low: CH3	2422
	10	MCS 0	Middle: CH7	2442
	10	MCS 0	High: CH11	2462
IEEE 802.11ax HE20	7	MCS 0	Low: CH1	2412
	7	MCS 0	Middle: CH7	2442
	7	MCS 0	High: CH13	2472
IEEE 802.11ax HE40	10	MCS 0	Low: CH3	2422
	10	MCS 0	Middle: CH7	2442
	10	MCS 0	High: CH11	2462
Note: According exploratory test, EUT will have maximum output power in those data rate, so those data rate were used for all test.				

2.5. Test environment conditions

During the measurement the environmental conditions were within the listed ranges:

	Normal Conditions
Temperature range	20-28°C
Humidity range	45-75%
Pressure range	86-106kPa
Power supply	DC 20.0V (When the input voltage to equipment fluctuated $\pm 10\%$, the RF unit circuit voltage fluctuation under 1%, therefore all test performed on the rated voltage for equipment.)

The measurement result of the voltage fluctuation at RF circuit when DC 20V $\pm 10\%$.		
Input voltage		RF module voltage
+10% of rate voltage	DC 22.0V	DC 3.30 V
Rate voltage	DC 20.0V	DC 3.30 V
-10% of rate voltage	DC 18.0V	DC 3.30 V

2.6. Deviations of test standard

No Deviation.

2.7. Test laboratory

LabSure Testing Services (Suzhou) Co., Ltd.

Address: Phase II, No.16 Runsheng Road, Suzhou Industrial Park, Suzhou, People's Republic of China

A2LA Certificate Number: 7346.01

FCC Designation Number: CN1397

ISED (Innovation, Science and Economic Development Canada) Company Number: 32952

Conformity Assessment Body Identifier: CN0182

VCCI Facility Registration Number: C-20192, T-20192, R-20236, R-20237, G-20231

Test Item	Facility No. Registered to VCCI	Expiration date
Conducted emission at AC mains terminals	C-20192	11/24/2027
Conducted emissions at Telecommunication ports	T-20192	11/24/2027
Radiated emission below 1 GHz	☒ R-20236[10m] ☐ R-20237[3m]	11/24/2027
Radiated emission above 1 GHz	G-20231	11/24/2027

2.8. Measurement uncertainty

Test Item	Uncertainty
Occupied Channel Bandwidth	$\pm 0.14\%$
Uncertainty for radio frequency	1×10^{-7} MHz
RF Output power, conducted	± 0.12 dB
Power Spectral Density, Conducted	± 0.12 dB
Unwanted Emissions, Conducted	± 0.52 dB
Temperature	$\pm 1^\circ\text{C}$
Humidity	$\pm 1\%$
DC and Low frequency voltage	$\pm 0.5\%$
Time	$\pm 0.46\%$
Duty Cycle	$\pm 0.46\%$

Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.

3. Equipment used during test

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval	Calibration body
RF Conducted Test						
PXA Signal Analyzer	Keysight	N9010A	MY53281492	2026/02/11	1 Year	JEPSI
PXA Signal Analyzer	Keysight	N9030B	MY56320639	2026/03/17	1 Year	GRGTEST
Power Sensor	Keysight	U2021XA	MY59150007	2026/02/11	1 Year	JEPSI
MXG Vector Signal Generator	Keysight	N5182A	MY50143288	2026/02/11	1 Year	JEPSI
DC Power Supply	Chroma	62012P-80-60	62012PD00544	2026/01/13	1 Year	GRGTEST
Test Software	MWRFTes	MTS8310	V03	N/A	N/A	N/A
Remark: 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). GRGTEST is GRG METROLOGY & TEST GROUP CO., LTD. and compliant with the requirement in remark. 1) JEPSI is Jiangsu Electronic Information Product Quality Supervision & Inspection Institute and compliant with the requirement in remark.						

4. Antenna Power and Tolerances for Antenna Power

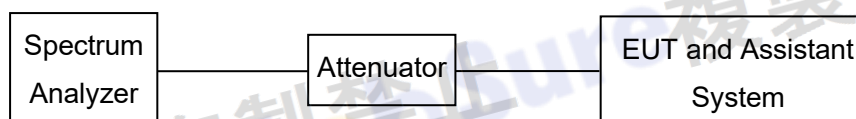
4.1. General Information

Test date	May. 19, 2026	Test engineer	Luke Li	
Climate condition	Ambient temperature	24.4℃	Relative humidity	64.9%
	Atmospheric pressure	100.56kPa		
Test place	EMC Room 1#			

4.2. Limit

Modulation System	Frequency Band Used	Antenna Power (Max.)	EIRP (Max.)	
			Omnidirectional Case	Directional Case
DS, OFDM	2400-2483.5MHz	10mW/MHz	12.14dBm/MHz	22.14dBm/MHz
FH, DS-FH, FH-OFDM	2400-2483.5MHz	3mW/MHz	6.91dBm/MHz	16.91dBm/MHz
	Excluding 2427-2470.75MHz	10mW/MHz	12.14dBm/MHz	22.14dBm/MHz
Other than the above	2400-2483.5MHz	10mW	12.14dBm	22.14dBm
Tolerance: +20%				

4.3. Block diagram of test setup



4.4. Test Procedure

(1) Search for peak power frequency

Connected the EUT's antenna port to the Spectrum Analyzer by suitable attenuator, set the Spectrum Analyzer as below:

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

Resolution BW: 1MHz

Video BW: 1MHz

Span: 40MHz

Sweep time: Auto

Sweep data points: 1001 or greater

Detector: Peak

Trace Mode: Max Hold.

(2) Measurement of average antenna power

Centre Frequency: Frequency of peak power found in step (1)

Span: 0 Hz

Resolution BW: 1MHz

Video BW: 1MHz

Detector: Sample

Sweep: Minimum time required to make an accurate measurement.

For burst type (intermittent) transmission, sweep time shall be greater than one burst interval.

Sweep data points: 1001 or greater

Note: The cable loss and attenuator loss have been put into spectrum analyzer as amplitude offset.

4.5. Test Result

Antenna Power and Tolerances									
Condition	Mode	Frequency (MHz)	Antenna Power (dBm/MHz)	Antenna Power (mW/MHz)	Limit (mW/MHz)	Declared Power (mW/MHz)	Tolerance (%)	Upper Limit (%)	Verdict
NVNT	b	2412	4.66	2.93	10	4	-26.80	20	Pass
NVNT	b	2442	6.45	4.41	10	4	10.30	20	Pass
NVNT	b	2472	3.83	2.41	10	4	-39.80	20	Pass
NVNT	g	2412	-2.90	0.51	10	1	-49.00	20	Pass
NVNT	g	2442	-2.66	0.54	10	1	-46.00	20	Pass
NVNT	g	2472	-2.73	0.53	10	1	-47.00	20	Pass
NVNT	n20	2412	-5.38	0.29	10	1	-71.00	20	Pass
NVNT	n20	2442	-2.04	0.62	10	1	-38.00	20	Pass
NVNT	n20	2472	-2.72	0.53	10	1	-47.00	20	Pass
NVNT	n40	2422	-6.64	0.22	5	1	-78.00	20	Pass
NVNT	n40	2442	-5.23	0.30	5	1	-70.00	20	Pass
NVNT	n40	2462	-5.26	0.30	5	1	-70.00	20	Pass
NVNT	ax20	2412	-3.99	0.40	10	1	-60.00	20	Pass
NVNT	ax20	2442	-1.92	0.64	10	1	-36.00	20	Pass
NVNT	ax20	2472	-1.52	0.71	10	1	-29.00	20	Pass
NVNT	ax40	2422	-4.75	0.34	5	1	-66.00	20	Pass
NVNT	ax40	2442	-2.86	0.52	5	1	-48.00	20	Pass
NVNT	ax40	2462	-2.70	0.54	5	1	-46.00	20	Pass

EIRP							
Condition	Mode	Frequency (MHz)	Antenna Power (dBm/MHz)	Gain (dBi)	EIRP Power (dBm/MHz)	Limit (dBm/MHz)	Verdict
NVNT	b	2412	4.67	2.92	7.58	12.14	Pass
NVNT	b	2442	6.44	2.92	9.37	12.14	Pass
NVNT	b	2472	3.82	2.92	6.75	12.14	Pass
NVNT	g	2412	-2.92	2.92	0.00	12.14	Pass
NVNT	g	2442	-2.68	2.92	0.25	12.14	Pass
NVNT	g	2472	-2.76	2.92	0.17	12.14	Pass
NVNT	n20	2412	-5.38	2.92	-2.44	12.14	Pass
NVNT	n20	2442	-2.08	2.92	0.86	12.14	Pass
NVNT	n20	2472	-2.76	2.92	0.21	12.14	Pass
NVNT	n40	2422	-6.58	2.92	-3.77	9.13	Pass
NVNT	n40	2442	-5.23	2.92	-2.29	9.13	Pass
NVNT	n40	2462	-5.23	2.92	-2.37	9.13	Pass
NVNT	ax20	2412	-3.98	2.92	-1.08	12.14	Pass
NVNT	ax20	2442	-1.94	2.92	1.00	12.14	Pass
NVNT	ax20	2472	-1.49	2.92	1.40	12.14	Pass
NVNT	ax40	2422	-4.69	2.92	-1.80	9.13	Pass
NVNT	ax40	2442	-2.84	2.92	0.04	9.13	Pass
NVNT	ax40	2462	-2.68	2.92	0.21	9.13	Pass

4.6. Test Graphs



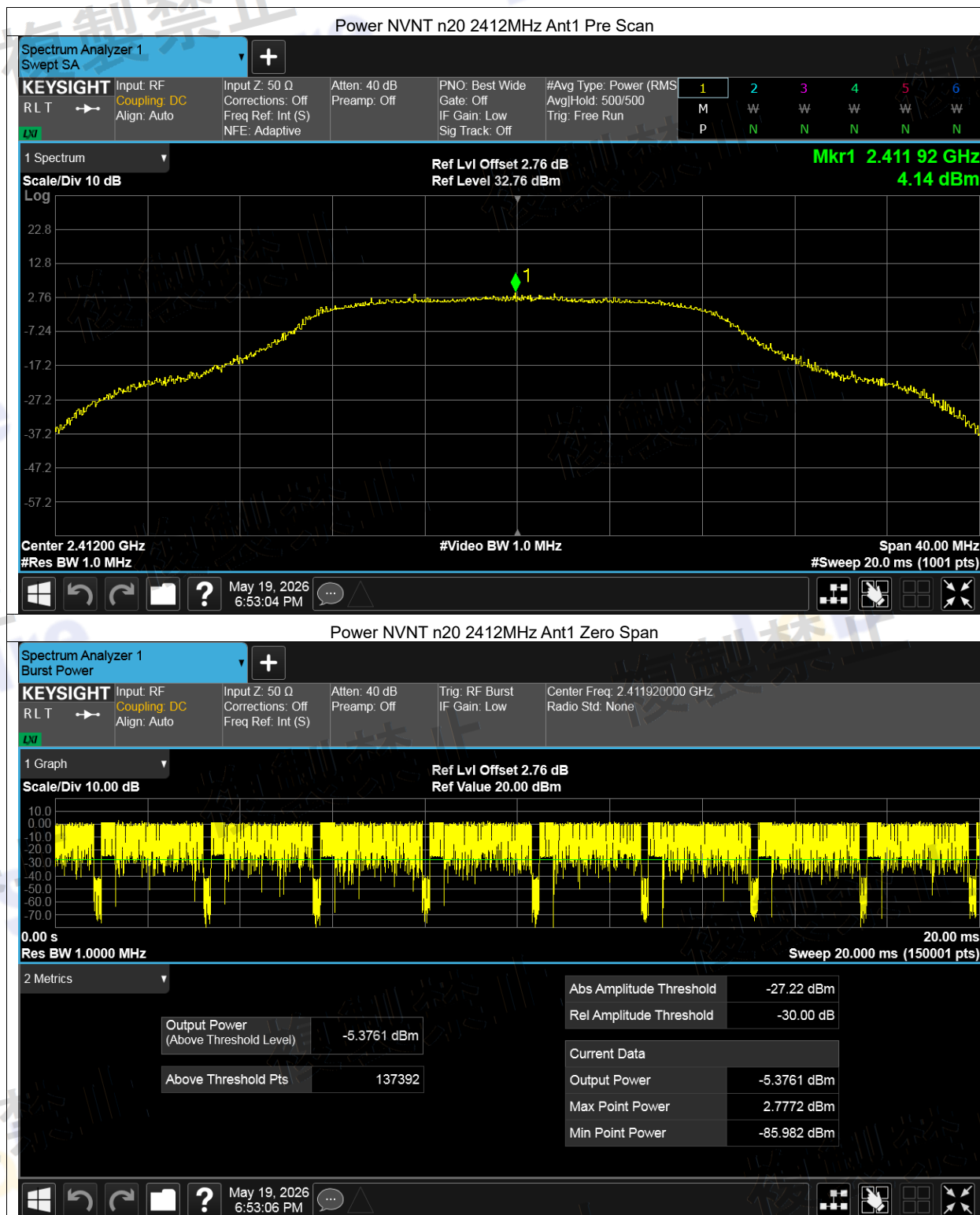


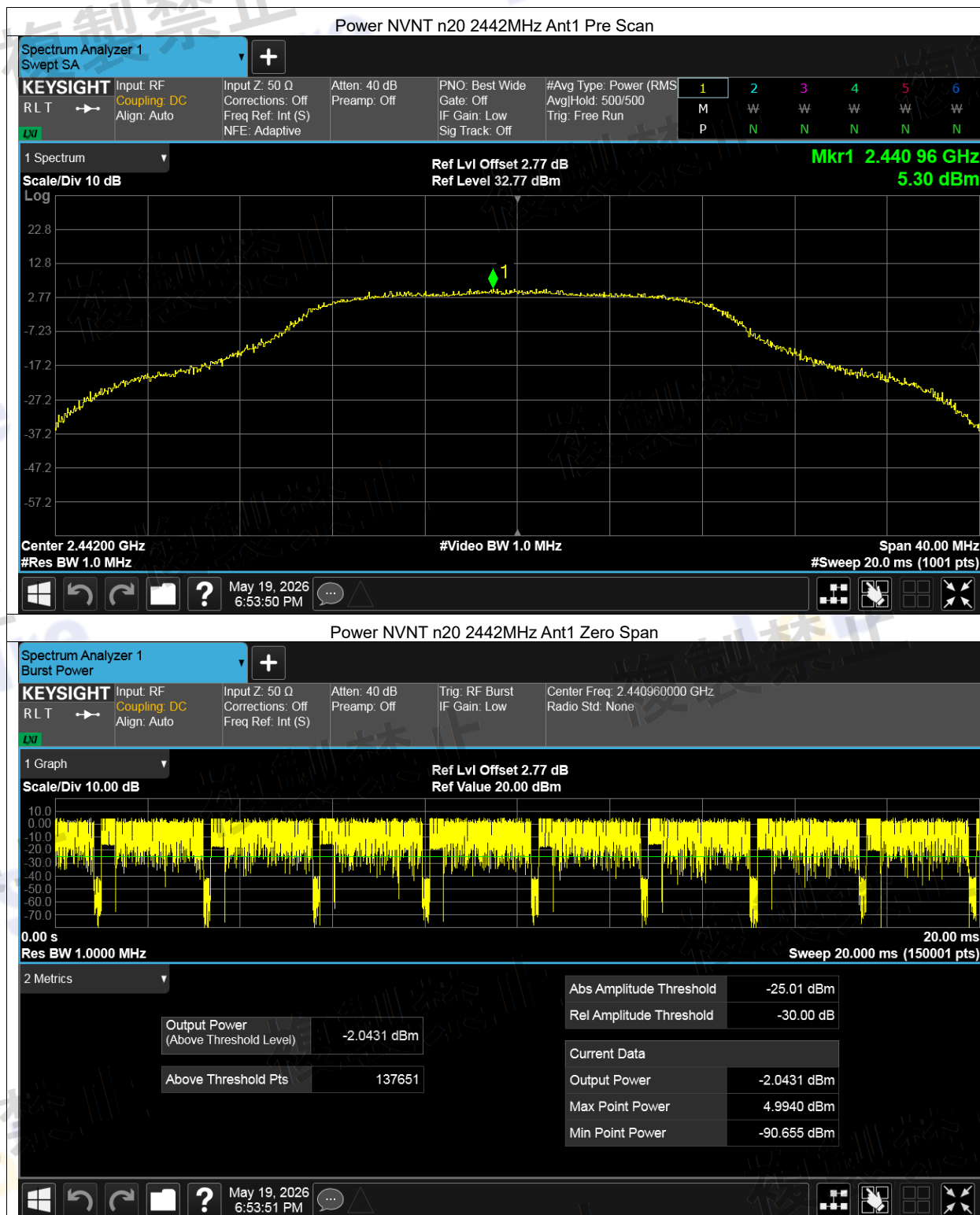
































5. Frequency Tolerance

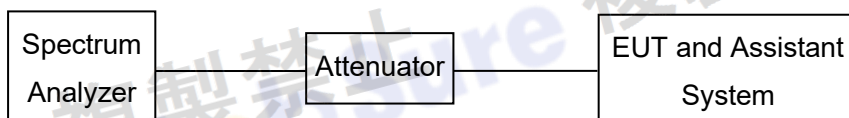
5.1. General Information

Test date	May. 19, 2026	Test engineer	Luke Li	
Climate condition	Ambient temperature	24.4℃	Relative humidity	64.9%
	Atmospheric pressure	100.56kPa		
Test place	EMC Room 1#			

5.2. Limit

+/- 50 x 10⁻⁶ or less (50ppm)

5.3. Block diagram of test setup



5.4. Test Procedure

(1) Connected the EUT's antenna port to the Spectrum Analyzer by suitable attenuator, set the Spectrum Analyzer as below:

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

Resolution BW: 10 kHz.

Video BW: 10 kHz.

Span: 1MHz.

Detector: Peak.

Trace Mode: Max Hold.

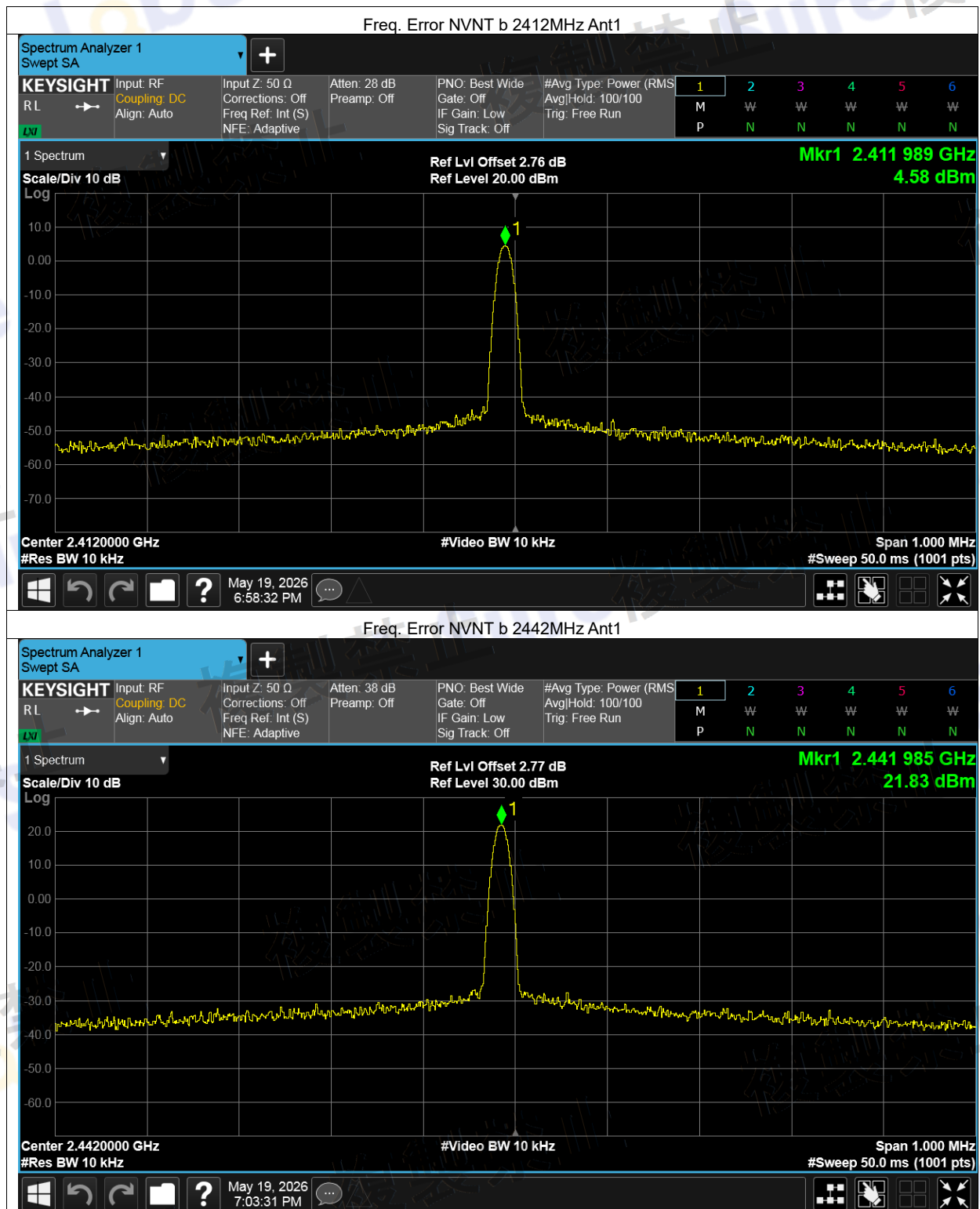
(2) When the trace is complete, find the peak value of the power envelope and record the frequency.

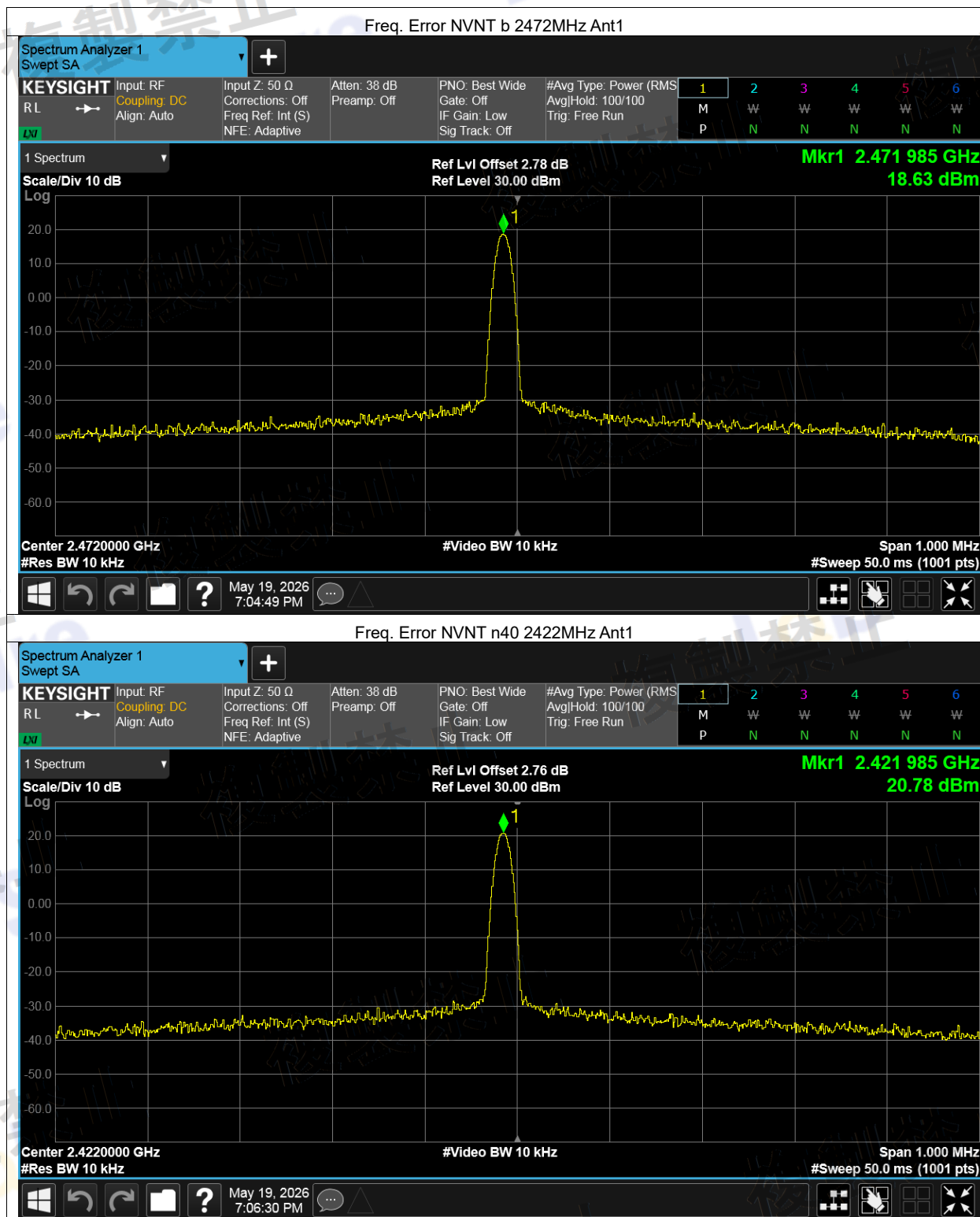
5.5. Test Result

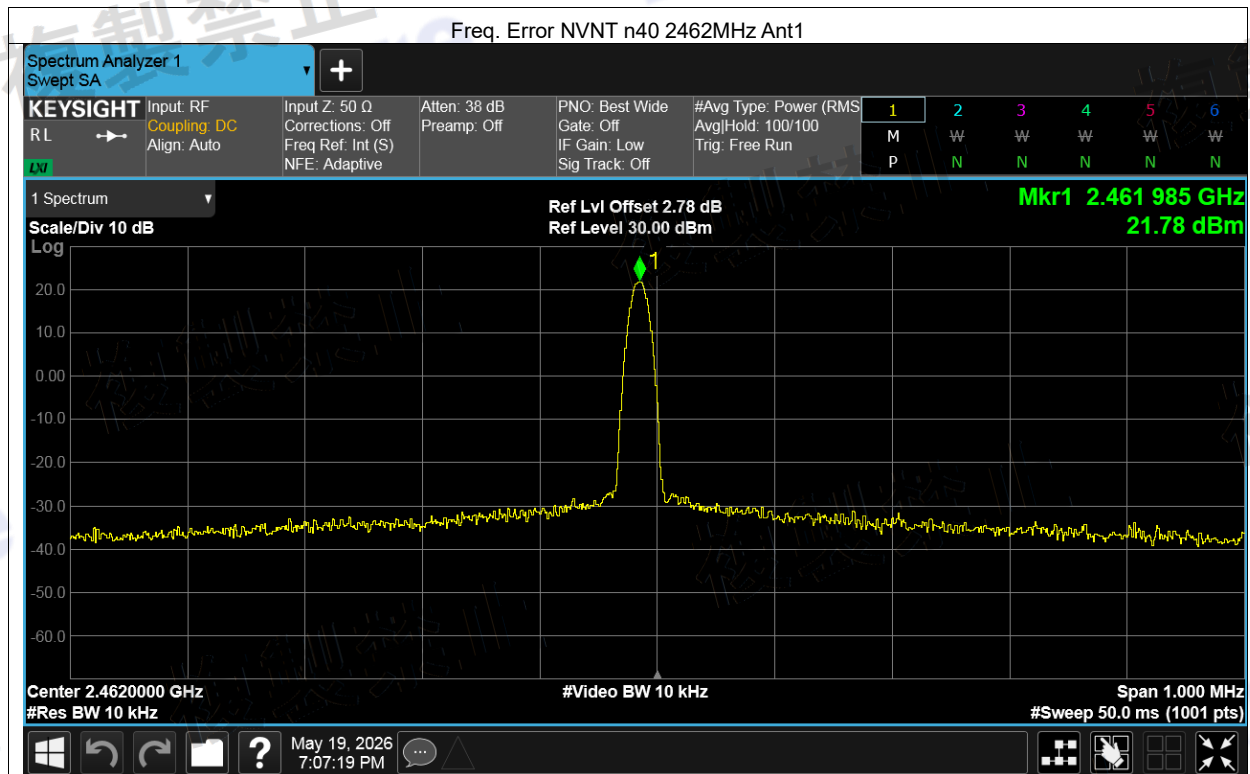
Condition	Mode	Frequency (MHz)	Measured Frequency (MHz)	Frequency Error (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
NVNT	b	2412	2411.989	-11000	-4.56	50	Pass
NVNT	b	2442	2441.985	-15000	-6.14	50	Pass
NVNT	b	2472	2471.985	-15000	-6.07	50	Pass
NVNT	n40	2422	2421.985	-15000	-6.19	50	Pass
NVNT	n40	2462	2461.985	-15000	-6.09	50	Pass

Remark: Pre-testing all bandwidth and test modes, only the data of the worst case are included in this report.

5.6. Test Graphs







6. Occupied Frequency Bandwidth

6.1. General Information

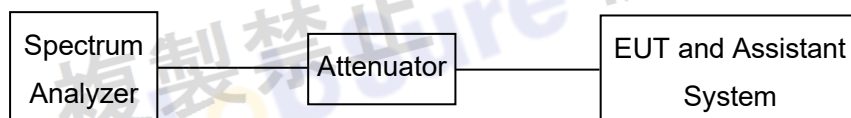
Test date	May. 19, 2026	Test engineer	Luke Li	
Climate condition	Ambient temperature	24.4℃	Relative humidity	64.9%
	Atmospheric pressure	100.56kPa		
Test place	EMC Room 1#			

6.2. Limit

IEEE802.11b/g/n (HT20): within 26MHz

IEEE802.11n (HT40): 26MHz-40MHz

6.3. Block diagram of test setup



6.4. Test Procedure

(1) Connected the EUT's antenna port to the Spectrum Analyzer by suitable attenuator, set the Spectrum Analyzer as below:

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

Resolution BW: 300 kHz

Video BW: 300 kHz

Span: 40MHz for IEEE 802.11b/g/n(HT20)

80MHz for IEEE 802.11n(HT40)

Sweep data points: 1001 or greater

Sweep time: Auto

Detector: Peak.

Trace Mode: Max Hold.

(2) When the trace is complete, measure the Occupied bandwidth (99% bandwidth) with spectrum analyzer's bandwidth measure function.

6.5. Test Result

Condition	Mode	Frequency (MHz)	99% OBW (MHz)	Limit (MHz)	Verdict
NVNT	b	2412	14.197	≤26	Pass
NVNT	b	2442	14.171	≤26	Pass
NVNT	b	2472	14.177	≤26	Pass
NVNT	g	2412	16.887	≤26	Pass
NVNT	g	2442	16.764	≤26	Pass
NVNT	g	2472	16.777	≤26	Pass
NVNT	n20	2412	17.980	≤26	Pass
NVNT	n20	2442	18.036	≤26	Pass
NVNT	n20	2472	18.152	≤26	Pass
NVNT	n40	2422	35.949	26-40	Pass
NVNT	n40	2442	35.789	26-40	Pass
NVNT	n40	2462	35.722	26-40	Pass
NVNT	ax20	2412	19.149	≤26	Pass
NVNT	ax20	2442	18.974	≤26	Pass
NVNT	ax20	2472	18.913	≤26	Pass
NVNT	ax40	2422	35.893	26-40	Pass
NVNT	ax40	2442	35.753	26-40	Pass
NVNT	ax40	2462	35.678	26-40	Pass

6.6. Test Graphs



















7. Transmitter Spurious Emissions (conducted)

7.1. General Information

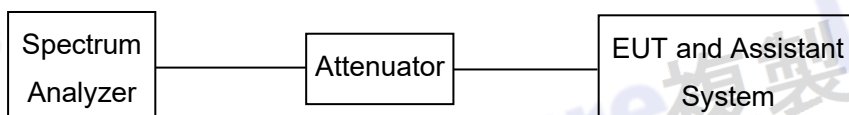
Test date	May. 19, 2026	Test engineer	Luke Li	
Climate condition	Ambient temperature	24.4℃	Relative humidity	64.9%
	Atmospheric pressure	100.56kPa		
Test place	EMC Room 1#			

7.2. Limit

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:

- a. $2,387\text{MHz} \leq f \leq 2,400\text{MHz}$ and $2,483.5\text{MHz} < f \leq 2,496.5\text{MHz}$ 25 μW (-16dBm) or less
- b. $2,387\text{MHz} > f$ and $2,496.5\text{MHz} < f \leq 13\text{GHz}$ 2.5 μW (-26dBm) or less

7.3. Block diagram of test setup



7.4. Test Procedure

- (1) Connected the EUT's antenna port to the Spectrum Analyzer by suitable attenuator.
- (2) Set the spectrum analyzer as below, sweep the frequency, and search for unwanted emissions.
 - Resolution BW: Reference Bandwidth
 - Video BW: Same with Resolution BW
 - Detector: Peak
 - Trace Mode: Max. Hold
- (3) All the emissions from 30MHz to 13GHz were measured and record.
- (4) If spurious emissions are greater than [limit -3dB], the spectrum shell be set as below, the measured value shall be the result.
 - Centre Frequency: frequency of measured in (3).
 - Resolution BW: 1MHz
 - Video BW: 1 MHz
 - Span: 0Hz.
 - Detector: Sample.
 - Sweep mode: Single
- (5) If there are multiple antennas, it is measured at each antenna.

7.5. Test Result

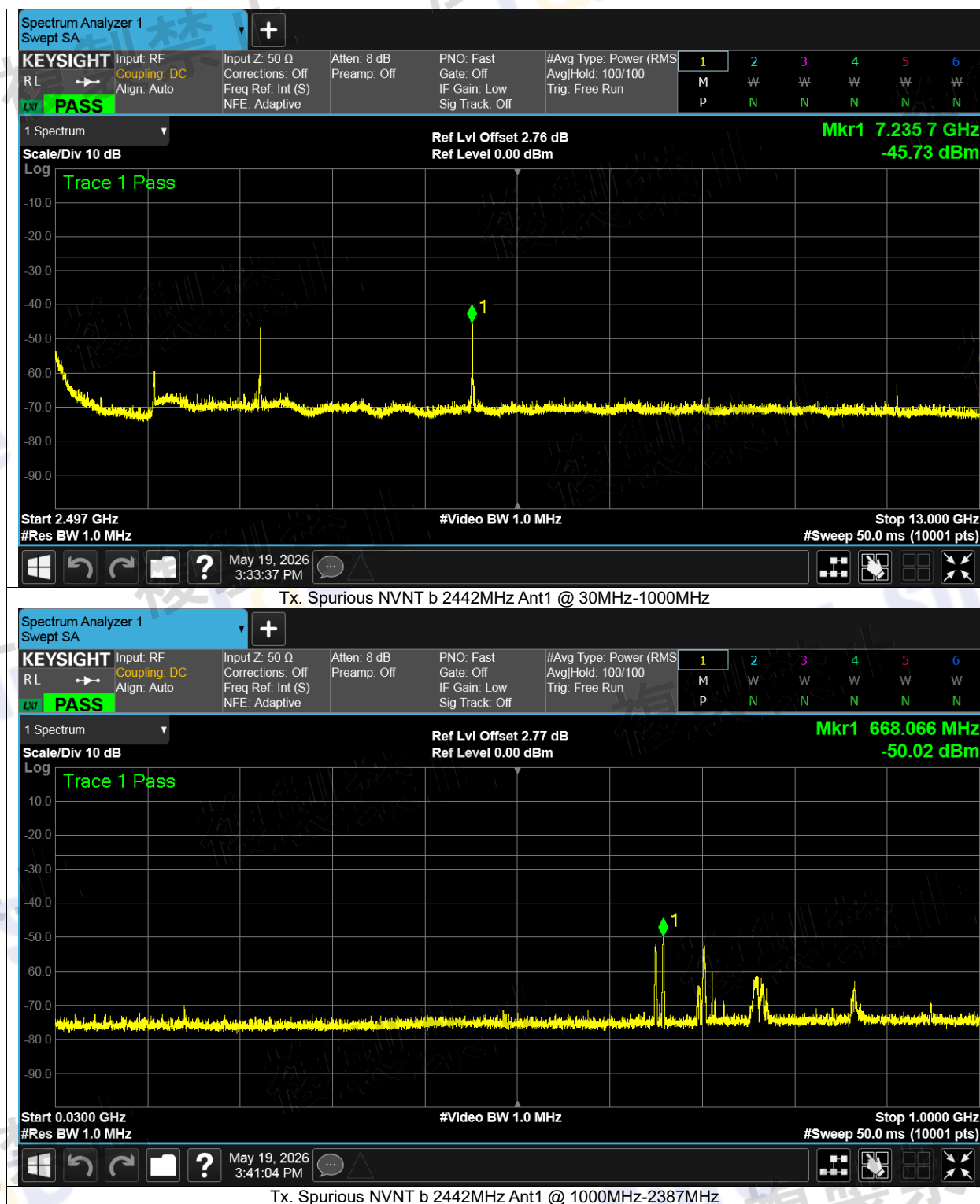
Condition	Mode	Frequency (MHz)	Range (MHz)	Emission Frequency (MHz)	Max Peak Value (dBm/MHz)	Max Peak Value (uW/MHz)	Average Burst Value (dBm/MHz)	Average Burst Value (uW/MHz)	Limit Start (uW/MHz)	Limit Stop (uW/MHz)	Verdict
NVNT	b	2412	30-1000	667.87	-47.96	0.016	NA	NA	2.5	2.5	Pass
NVNT	b	2412	1000-2387	2386.31	-46.97	0.0201	NA	NA	2.5	2.5	Pass
NVNT	b	2412	2387-2400	2395.29	-30.98	0.798	NA	NA	25	25	Pass
NVNT	b	2412	2483.5-2496.5	2489.52	-50.28	0.0094	NA	NA	25	25	Pass
NVNT	b	2412	2496.5-13000	7235.68	-45.73	0.0267	NA	NA	2.5	2.5	Pass
NVNT	b	2442	30-1000	668.07	-50.02	0.01	NA	NA	2.5	2.5	Pass
NVNT	b	2442	1000-2387	2375.21	-50.45	0.009	NA	NA	2.5	2.5	Pass
NVNT	b	2442	2387-2400	2392.90	-42.85	0.0519	NA	NA	25	25	Pass
NVNT	b	2442	2483.5-2496.5	2486.48	-42.59	0.0551	NA	NA	25	25	Pass
NVNT	b	2442	2496.5-13000	7326.01	-42.09	0.0618	NA	NA	2.5	2.5	Pass
NVNT	b	2472	30-1000	667.97	-49.84	0.0104	NA	NA	2.5	2.5	Pass
NVNT	b	2472	1000-2387	2382.70	-55.63	0.0027	NA	NA	2.5	2.5	Pass
NVNT	b	2472	2387-2400	2391.54	-53.11	0.0049	NA	NA	25	25	Pass
NVNT	b	2472	2483.5-2496.5	2488.55	-30.38	0.9162	NA	NA	25	25	Pass
NVNT	b	2472	2496.5-13000	4943.82	-46.08	0.0247	NA	NA	2.5	2.5	Pass
NVNT	g	2412	30-1000	667.97	-50.49	0.0089	NA	NA	2.5	2.5	Pass
NVNT	g	2412	1000-2387	2387.00	-44.90	0.0324	NA	NA	2.5	2.5	Pass
NVNT	g	2412	2387-2400	2399.98	-13.83	41.4	-27.13	1.936	25	25	Pass
NVNT	g	2412	2483.5-2496.5	2484.87	-57.58	0.0017	NA	NA	25	25	Pass
NVNT	g	2412	2496.5-13000	4820.92	-53.08	0.0049	NA	NA	2.5	2.5	Pass
NVNT	g	2442	30-1000	660.02	-50.13	0.0097	NA	NA	2.5	2.5	Pass
NVNT	g	2442	1000-2387	2159.53	-56.05	0.0025	NA	NA	2.5	2.5	Pass
NVNT	g	2442	2387-2400	2395.51	-48.22	0.0151	NA	NA	25	25	Pass
NVNT	g	2442	2483.5-2496.5	2486.95	-52.33	0.0058	NA	NA	25	25	Pass
NVNT	g	2442	2496.5-13000	7328.11	-54.49	0.0036	NA	NA	2.5	2.5	Pass
NVNT	g	2472	30-1000	668.07	-49.40	0.0115	NA	NA	2.5	2.5	Pass
NVNT	g	2472	1000-2387	2164.80	-55.44	0.0029	NA	NA	2.5	2.5	Pass
NVNT	g	2472	2387-2400	2399.52	-57.78	0.0017	NA	NA	25	25	Pass
NVNT	g	2472	2483.5-2496.5	2483.63	-13.86	41.115	-25.958	2.536	25	25	Pass
NVNT	g	2472	2496.5-13000	4943.82	-52.91	0.0051	NA	NA	2.5	2.5	Pass
NVNT	n20	2412	30-1000	660.21	-52.61	0.0055	NA	NA	2.5	2.5	Pass
NVNT	n20	2412	1000-2387	2384.36	-39.29	0.1178	NA	NA	2.5	2.5	Pass
NVNT	n20	2412	2387-2400	2399.43	-14.25	37.5837	-35.04	0.313	25	25	Pass
NVNT	n20	2412	2483.5-2496.5	2491.50	-48.39	0.0145	NA	NA	25	25	Pass
NVNT	n20	2412	2496.5-13000	7244.08	-37.30	0.1862	NA	NA	2.5	2.5	Pass
NVNT	n20	2442	30-1000	654.29	-40.34	0.0925	NA	NA	2.5	2.5	Pass
NVNT	n20	2442	1000-2387	2336.79	-31.84	0.6546	NA	NA	2.5	2.5	Pass
NVNT	n20	2442	2387-2400	2390.96	-29.00	1.2589	NA	NA	25	25	Pass
NVNT	n20	2442	2483.5-2496.5	2486.40	-27.79	1.6634	NA	NA	25	25	Pass
NVNT	n20	2442	2496.5-13000	7334.41	-32.92	0.5105	NA	NA	2.5	2.5	Pass
NVNT	n20	2472	30-1000	660.02	-51.58	0.007	NA	NA	2.5	2.5	Pass
NVNT	n20	2472	1000-2387	2165.36	-46.72	0.0213	NA	NA	2.5	2.5	Pass
NVNT	n20	2472	2387-2400	2387.14	-33.35	0.4624	NA	NA	25	25	Pass
NVNT	n20	2472	2483.5-2496.5	2483.56	-16.86	20.6063	-33.185	0.48	25	25	Pass

Condition	Mode	Frequency (MHz)	Range (MHz)	Emission Frequency (MHz)	Max Peak Value (dBm/MHz)	Max Peak Value (uW/MHz)	Average Burst Value (dBm/MHz)	Average Burst Value (uW/MHz)	Limit Start (uW/MHz)	Limit Stop (uW/MHz)	Verdict
NVNT	n20	2472	2496.5-13000	7412.14	-33.76	0.4207	NA	NA	2.5	2.5	Pass
NVNT	n40	2422	30-1000	660.02	-51.80	0.0066	NA	NA	2.5	2.5	Pass
NVNT	n40	2422	1000-2387	2386.86	-35.27	0.2972	NA	NA	2.5	2.5	Pass
NVNT	n40	2422	2387-2400	2399.50	-16.02	25.0035	-30.568	0.879	25	25	Pass
NVNT	n40	2422	2483.5-2496.5	2493.09	-54.38	0.0036	NA	NA	25	25	Pass
NVNT	n40	2422	2496.5-13000	4824.08	-49.38	0.0115	NA	NA	2.5	2.5	Pass
NVNT	n40	2442	30-1000	660.02	-51.86	0.0065	NA	NA	2.5	2.5	Pass
NVNT	n40	2442	1000-2387	2384.36	-52.49	0.0056	NA	NA	2.5	2.5	Pass
NVNT	n40	2442	2387-2400	2399.95	-39.54	0.1112	NA	NA	25	25	Pass
NVNT	n40	2442	2483.5-2496.5	2483.62	-38.44	0.1432	NA	NA	25	25	Pass
NVNT	n40	2442	2496.5-13000	4863.99	-47.35	0.0184	NA	NA	2.5	2.5	Pass
NVNT	n40	2462	30-1000	667.97	-49.35	0.0116	NA	NA	2.5	2.5	Pass
NVNT	n40	2462	1000-2387	1246.19	-54.38	0.0036	NA	NA	2.5	2.5	Pass
NVNT	n40	2462	2387-2400	2399.26	-52.13	0.0061	NA	NA	25	25	Pass
NVNT	n40	2462	2483.5-2496.5	2484.25	-14.57	34.914	-28.946	1.275	25	25	Pass
NVNT	n40	2462	2496.5-13000	2496.50	-34.03	0.3954	NA	NA	2.5	2.5	Pass
NVNT	ax20	2412	30-1000	660.02	-52.73	0.0053	NA	NA	2.5	2.5	Pass
NVNT	ax20	2412	1000-2387	2380.90	-52.28	0.0059	NA	NA	2.5	2.5	Pass
NVNT	ax20	2412	2387-2400	2399.90	-16.09	24.6037	-28.016	1.579	25	25	Pass
NVNT	ax20	2412	2483.5-2496.5	2485.55	-59.91	0.001	NA	NA	25	25	Pass
NVNT	ax20	2412	2496.5-13000	2543.77	-55.94	0.0025	NA	NA	2.5	2.5	Pass
NVNT	ax20	2442	30-1000	660.11	-52.31	0.0059	NA	NA	2.5	2.5	Pass
NVNT	ax20	2442	1000-2387	2143.30	-57.86	0.0016	NA	NA	2.5	2.5	Pass
NVNT	ax20	2442	2387-2400	2391.22	-55.47	0.0028	NA	NA	25	25	Pass
NVNT	ax20	2442	2483.5-2496.5	2489.74	-54.74	0.0034	NA	NA	25	25	Pass
NVNT	ax20	2442	2496.5-13000	4883.95	-50.19	0.0096	NA	NA	2.5	2.5	Pass
NVNT	ax20	2472	30-1000	668.07	-53.71	0.0043	NA	NA	2.5	2.5	Pass
NVNT	ax20	2472	1000-2387	2168.27	-56.64	0.0022	NA	NA	2.5	2.5	Pass
NVNT	ax20	2472	2387-2400	2391.92	-56.49	0.0022	NA	NA	25	25	Pass
NVNT	ax20	2472	2483.5-2496.5	2483.53	-13.45	45.1856	-25.889	2.577	25	25	Pass
NVNT	ax20	2472	2496.5-13000	4943.82	-50.95	0.008	NA	NA	2.5	2.5	Pass
NVNT	ax40	2422	30-1000	667.97	-50.64	0.0086	NA	NA	2.5	2.5	Pass
NVNT	ax40	2422	1000-2387	2387.00	-33.46	0.4508	NA	NA	2.5	2.5	Pass
NVNT	ax40	2422	2387-2400	2399.10	-16.00	25.1189	-33.256	0.4725	25	25	Pass
NVNT	ax40	2422	2483.5-2496.5	2484.52	-54.16	0.0038	NA	NA	25	25	Pass
NVNT	ax40	2422	2496.5-13000	4824.08	-49.06	0.0124	NA	NA	2.5	2.5	Pass
NVNT	ax40	2442	30-1000	667.97	-51.39	0.0073	NA	NA	2.5	2.5	Pass
NVNT	ax40	2442	1000-2387	2385.89	-53.58	0.0044	NA	NA	2.5	2.5	Pass
NVNT	ax40	2442	2387-2400	2399.95	-38.99	0.1262	NA	NA	25	25	Pass
NVNT	ax40	2442	2483.5-2496.5	2484.52	-38.98	0.1265	NA	NA	25	25	Pass
NVNT	ax40	2442	2496.5-13000	4863.99	-47.59	0.0174	NA	NA	2.5	2.5	Pass
NVNT	ax40	2462	30-1000	667.97	-49.48	0.0113	NA	NA	2.5	2.5	Pass
NVNT	ax40	2462	1000-2387	1248.27	-54.34	0.0037	NA	NA	2.5	2.5	Pass
NVNT	ax40	2462	2387-2400	2392.00	-52.95	0.0051	NA	NA	25	25	Pass
NVNT	ax40	2462	2483.5-2496.5	2483.67	-14.70	33.8844	-27.768	1.672	25	25	Pass
NVNT	ax40	2462	2496.5-13000	2496.50	-31.35	0.7328	NA	NA	2.5	2.5	Pass

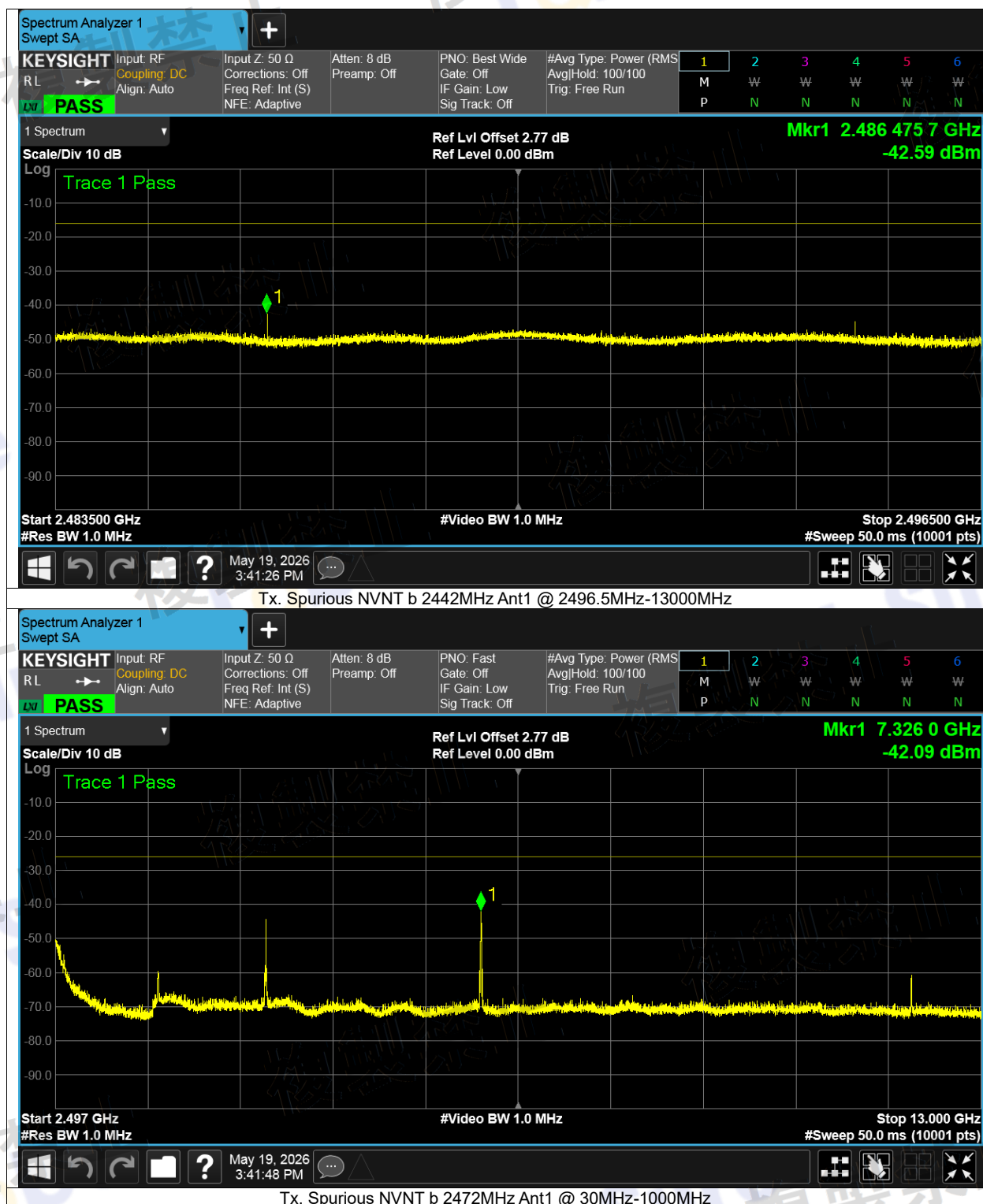
7.6. Test Graphs







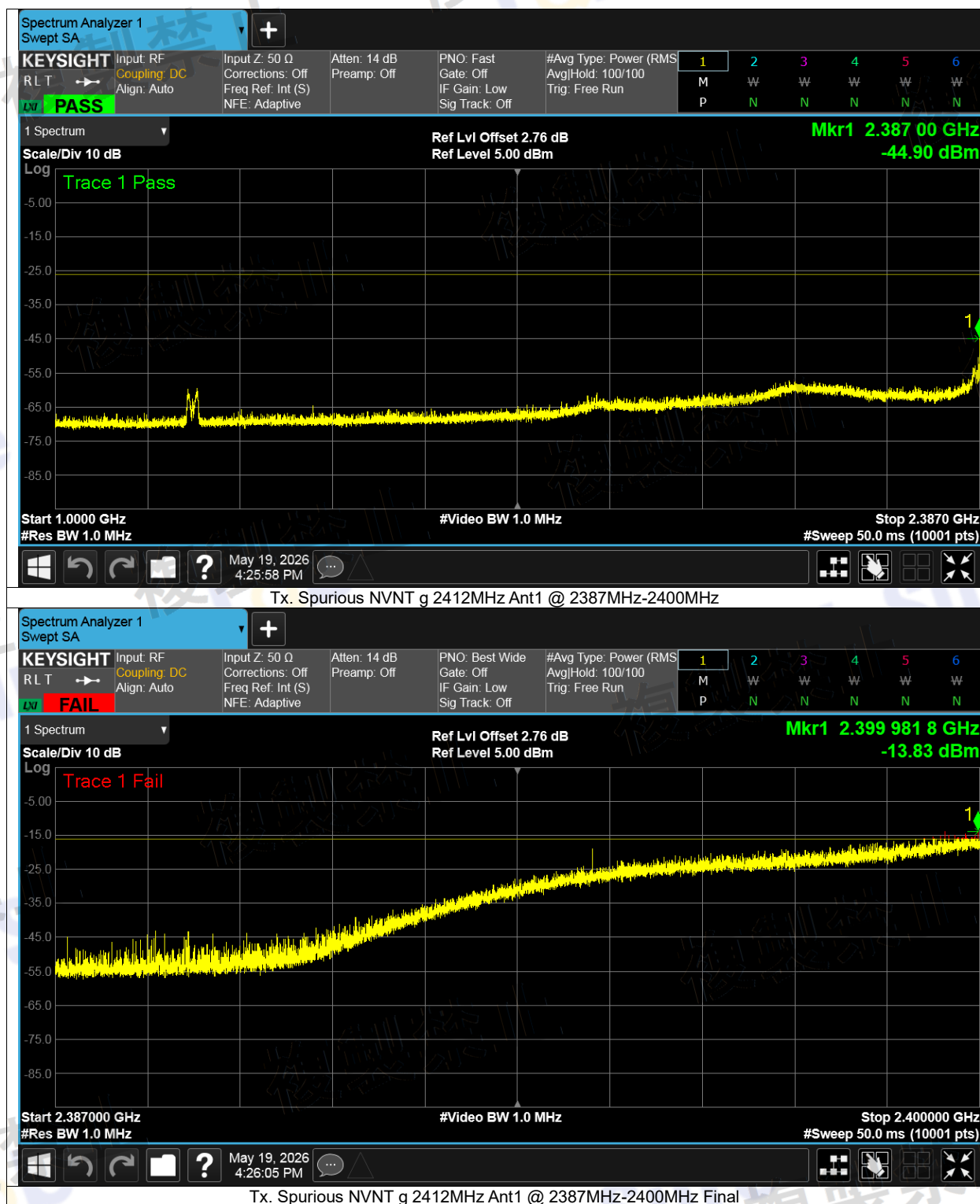




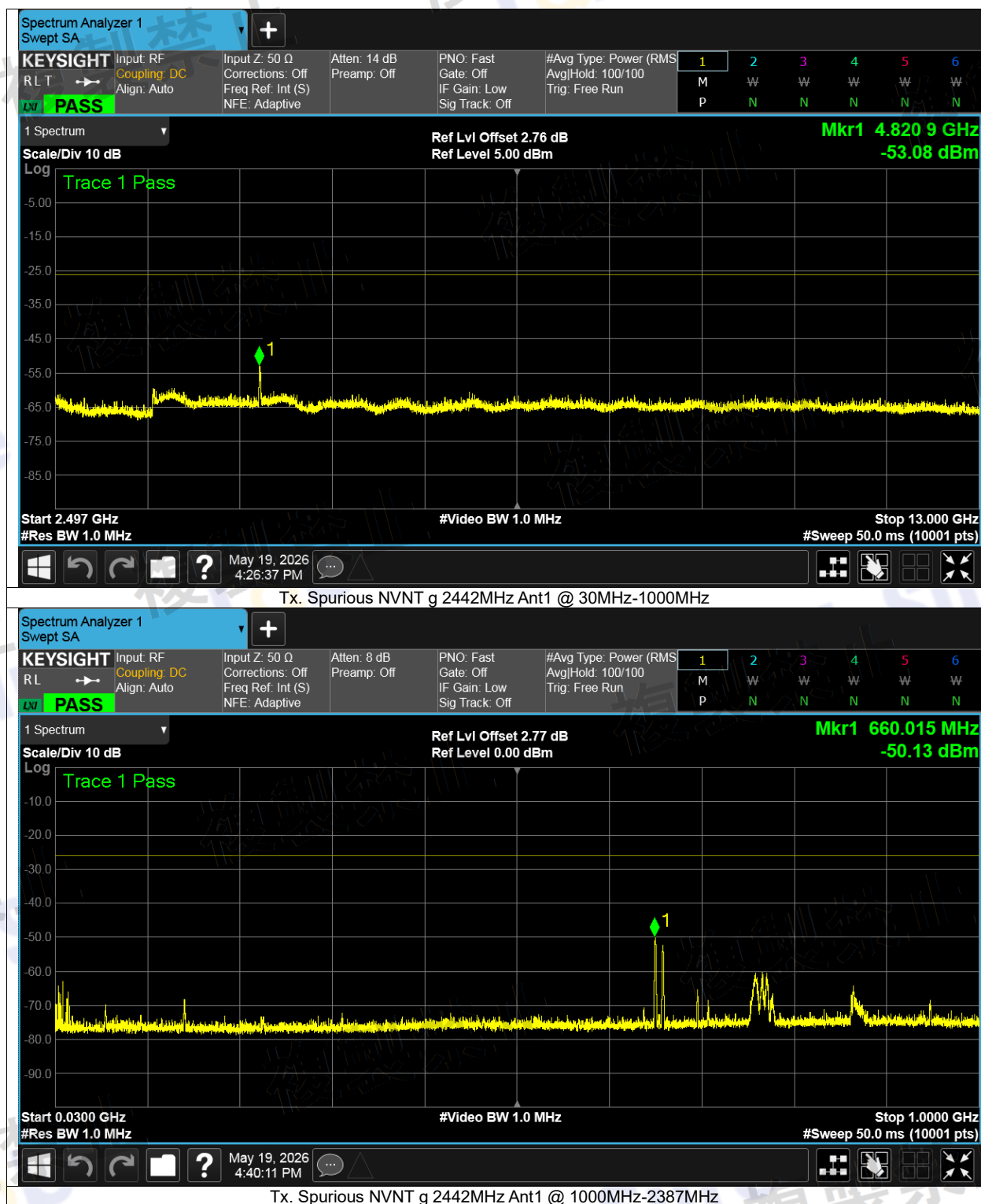








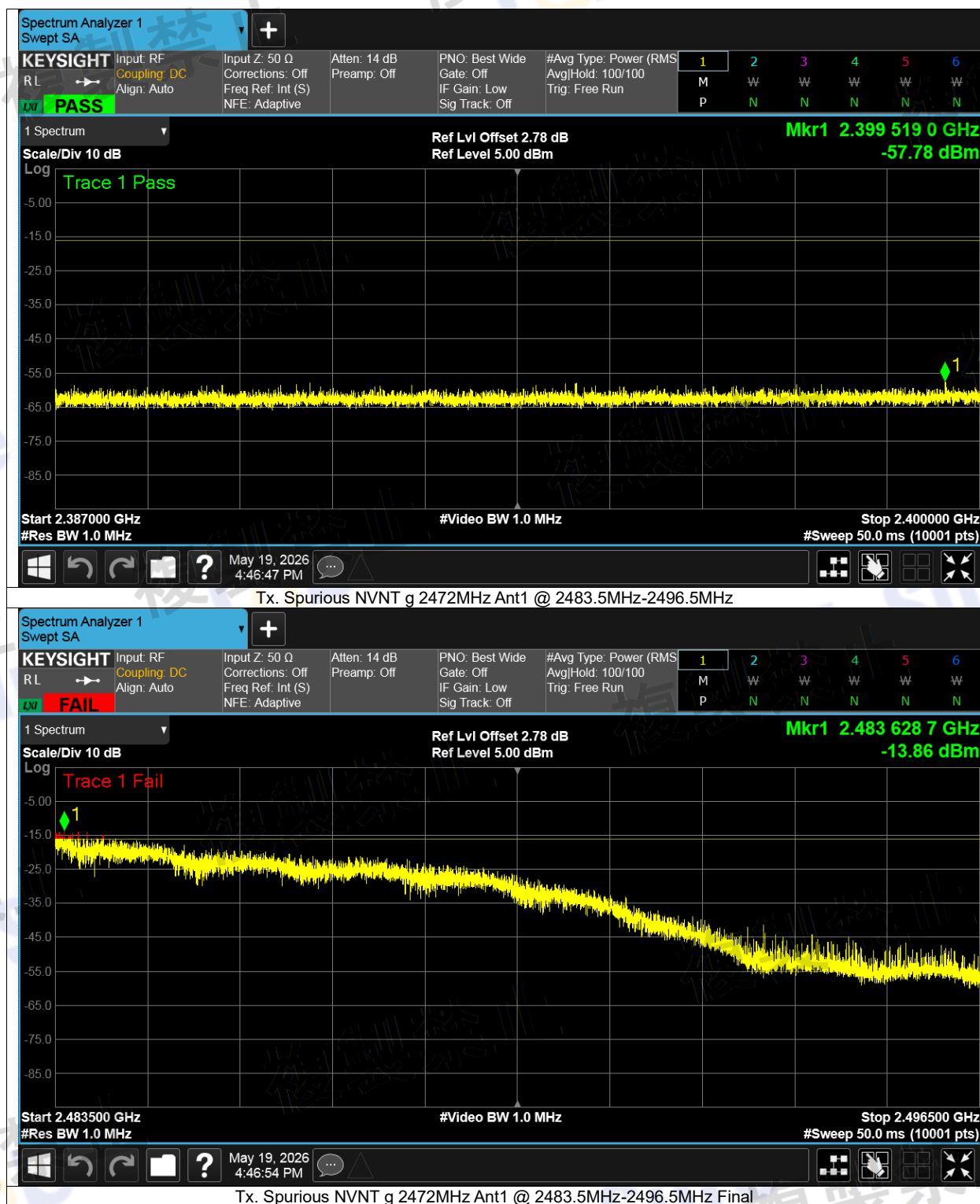






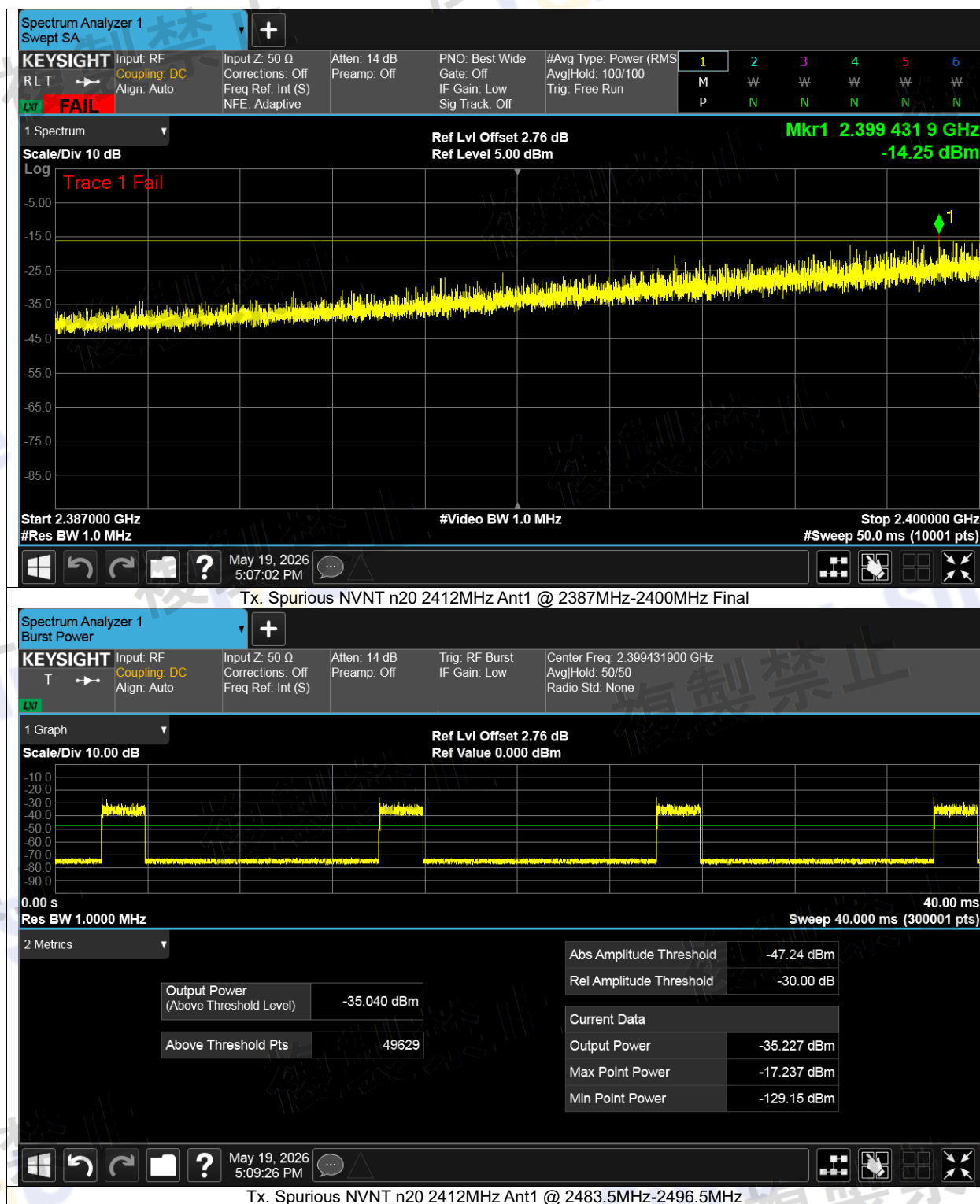
















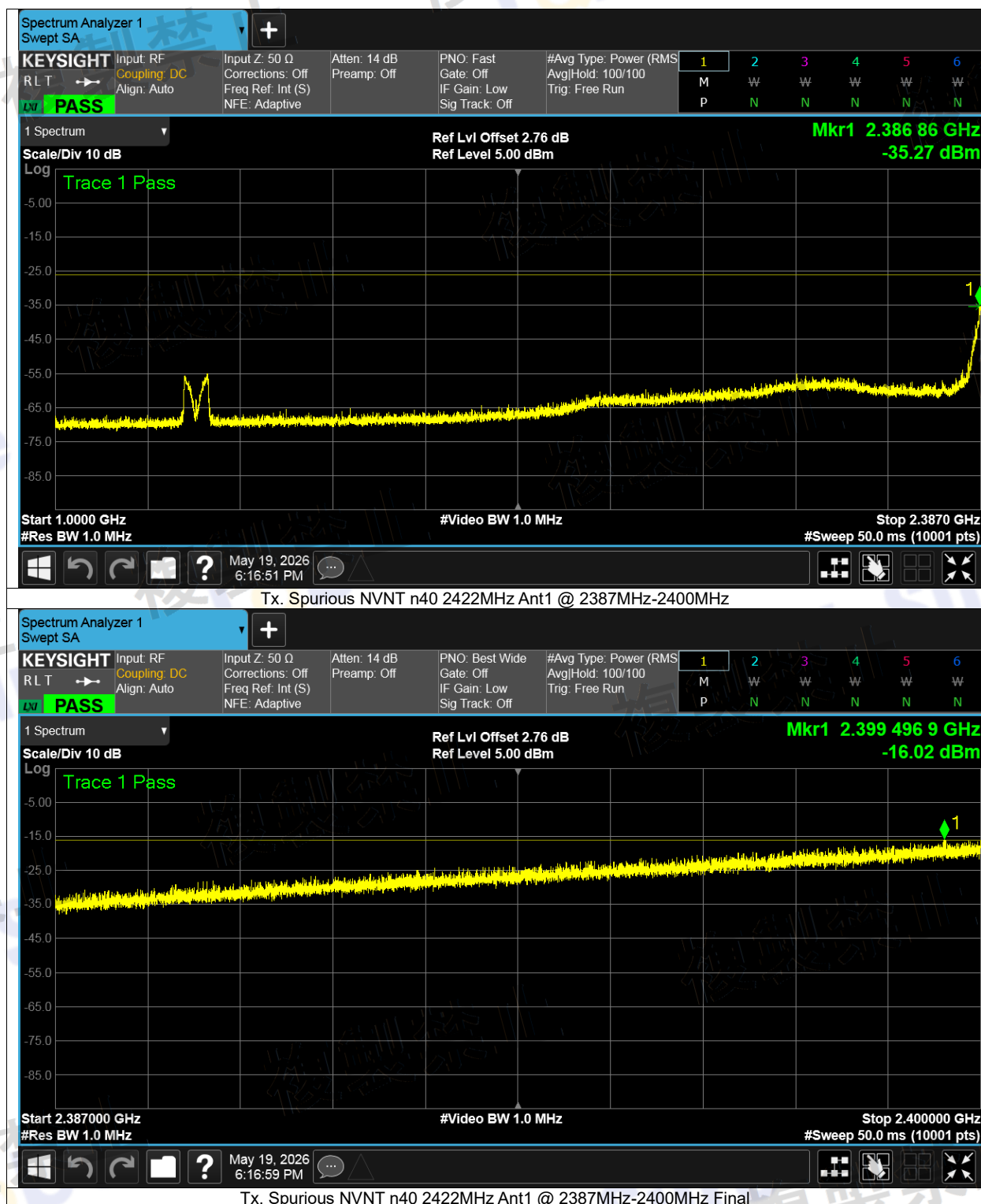




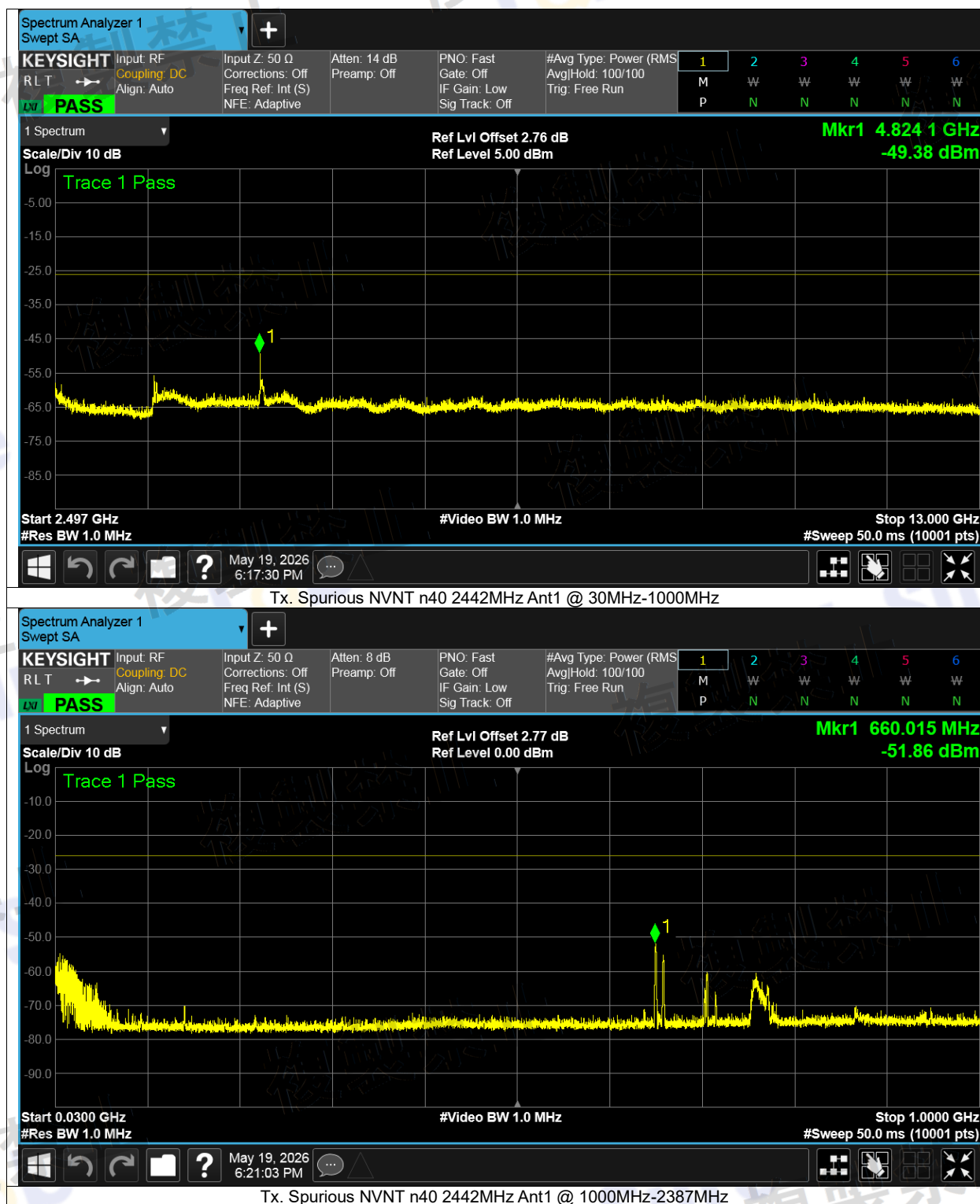




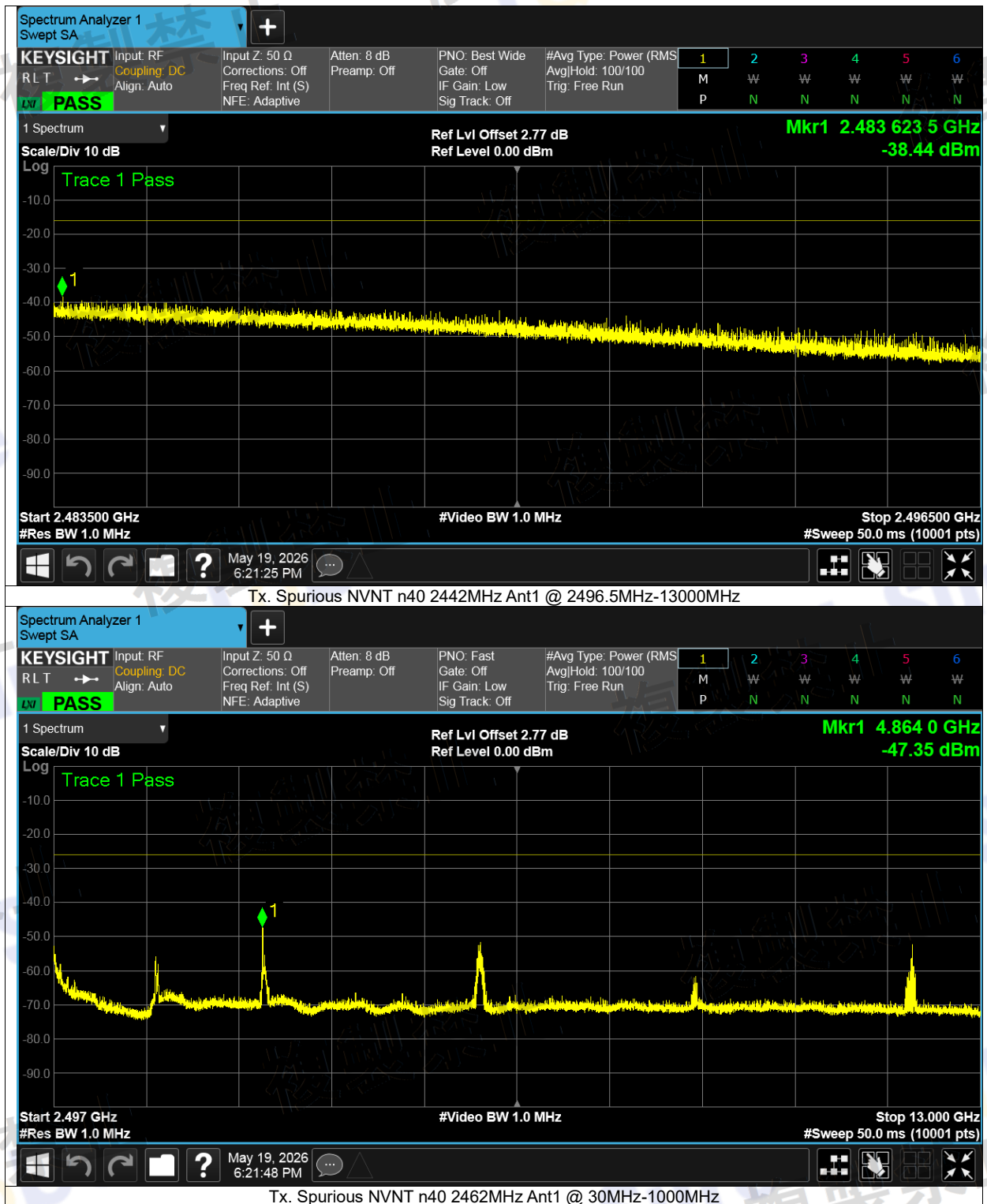










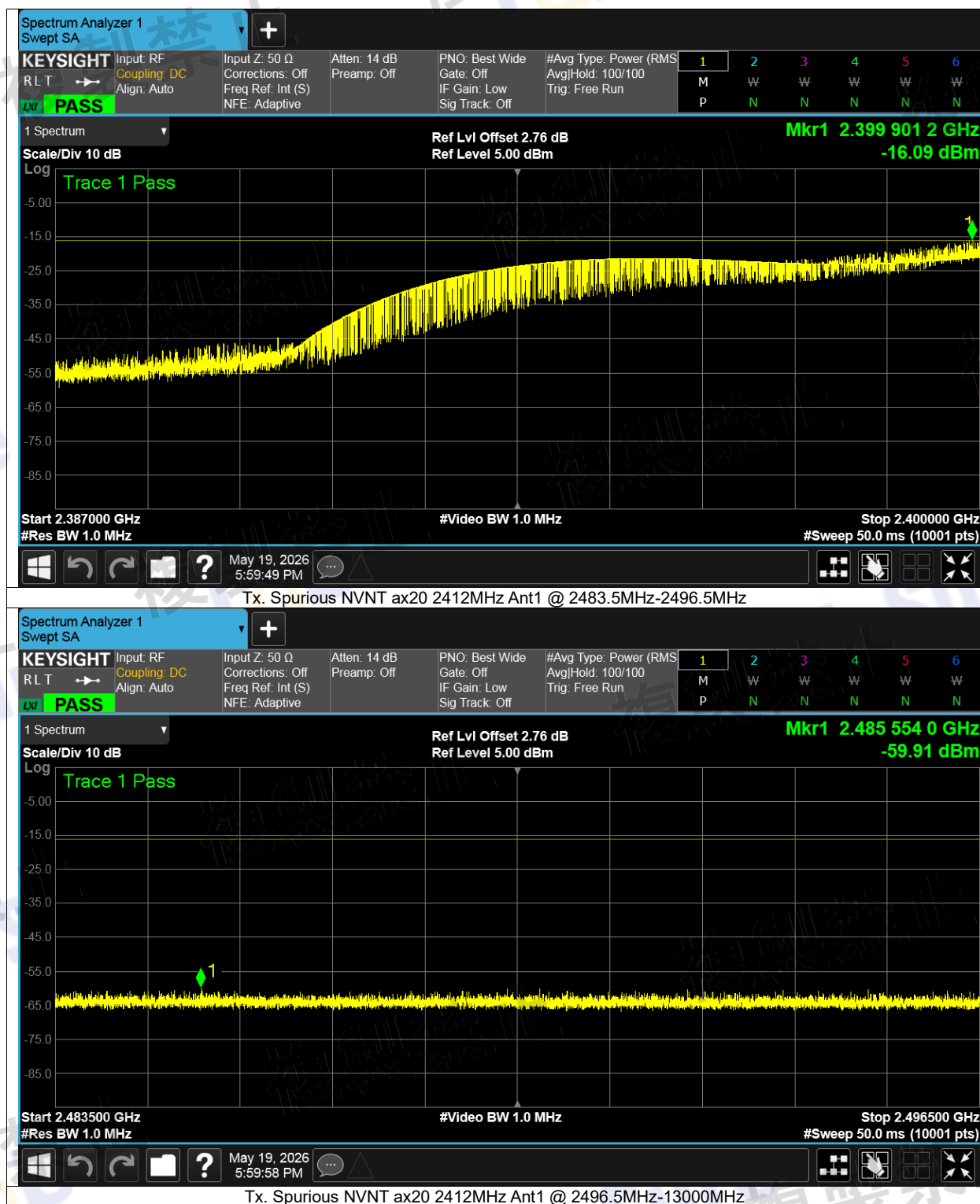


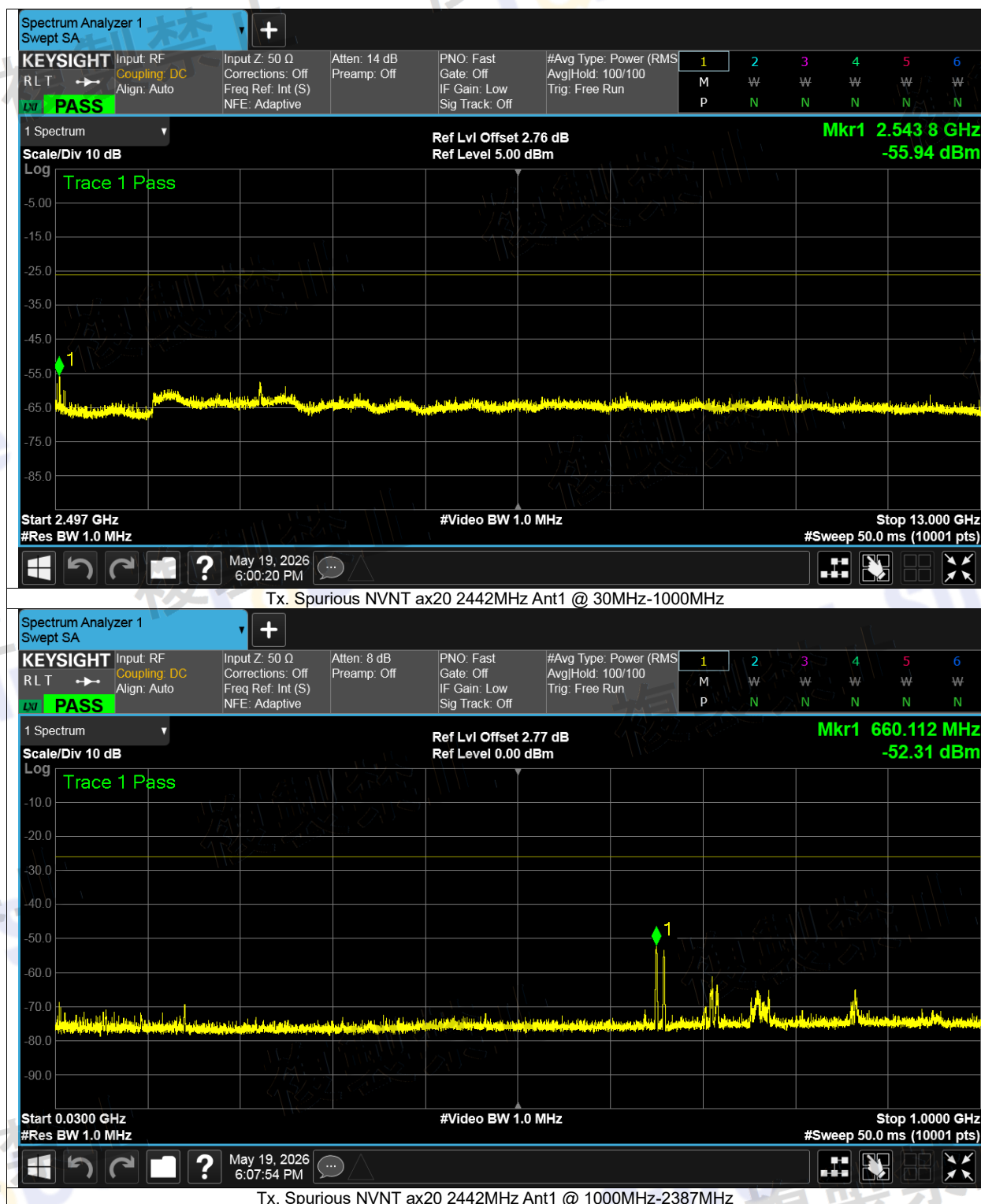








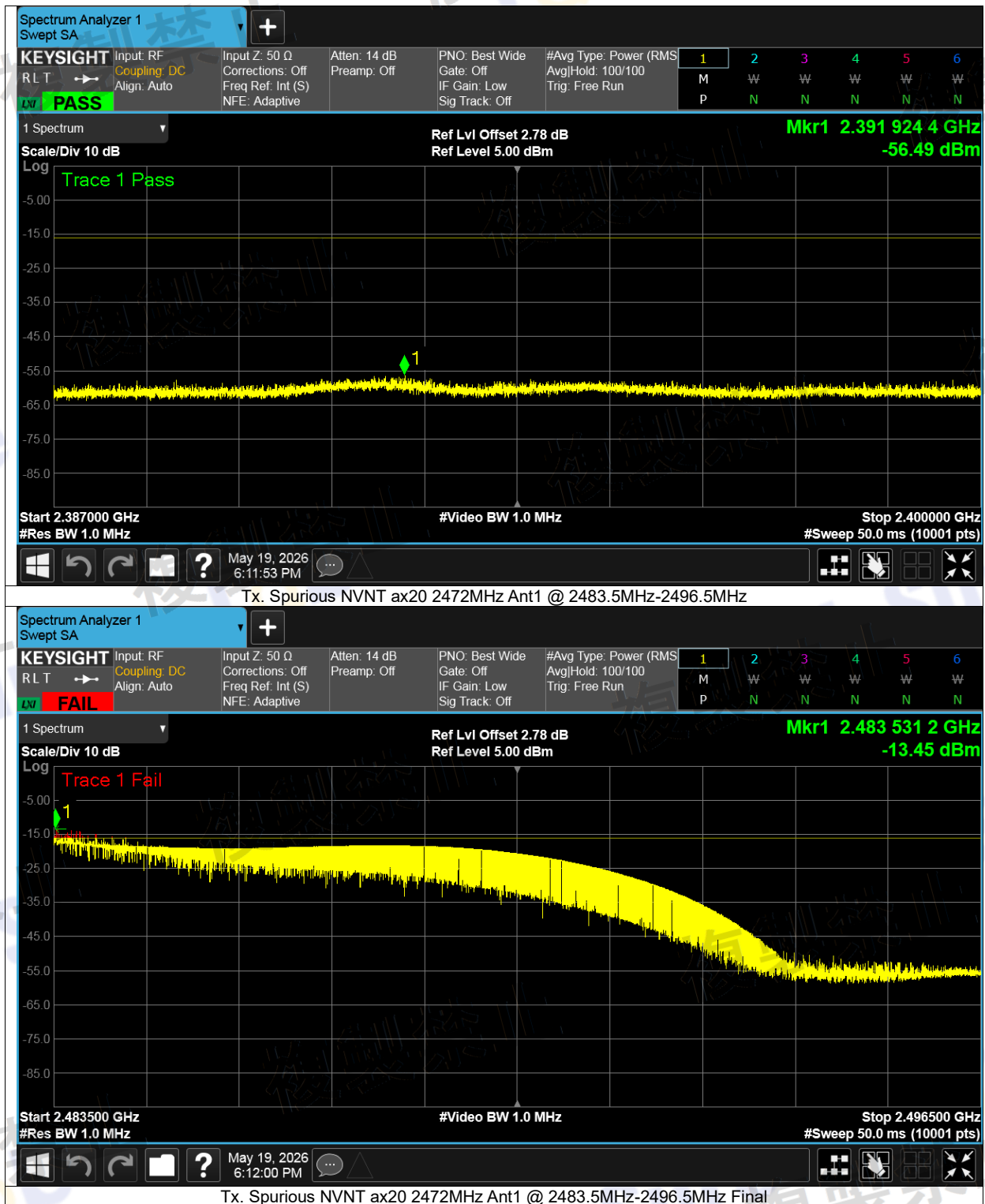










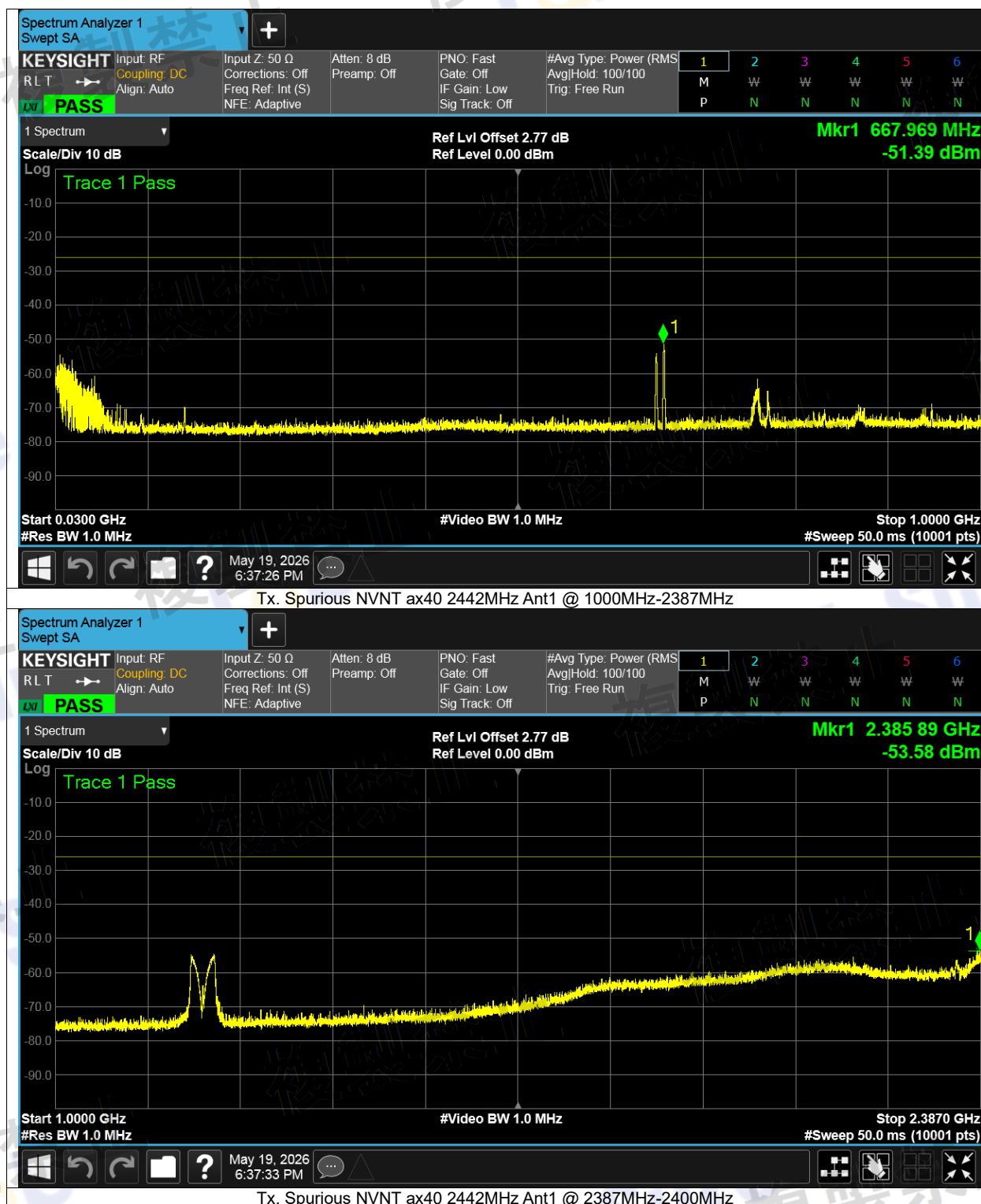


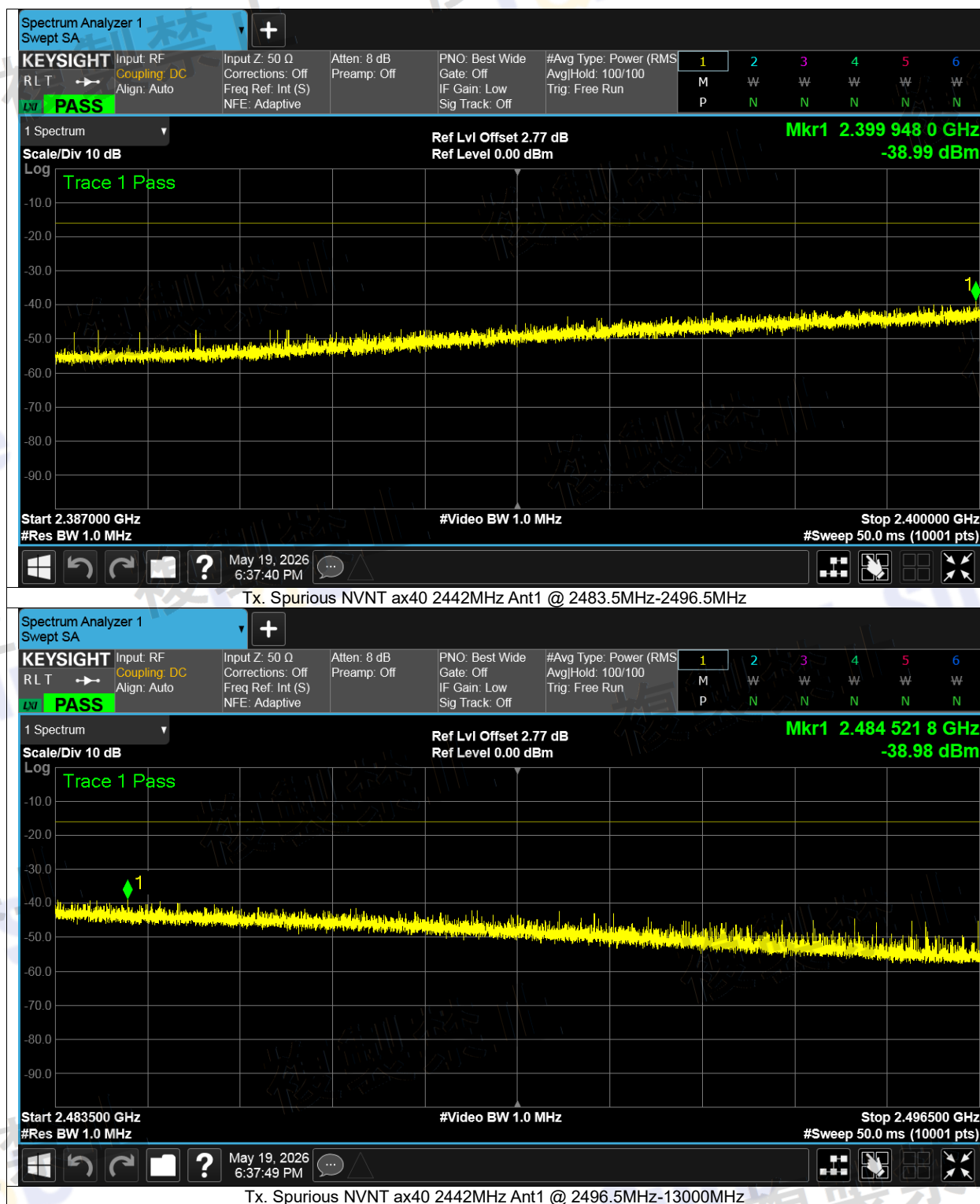






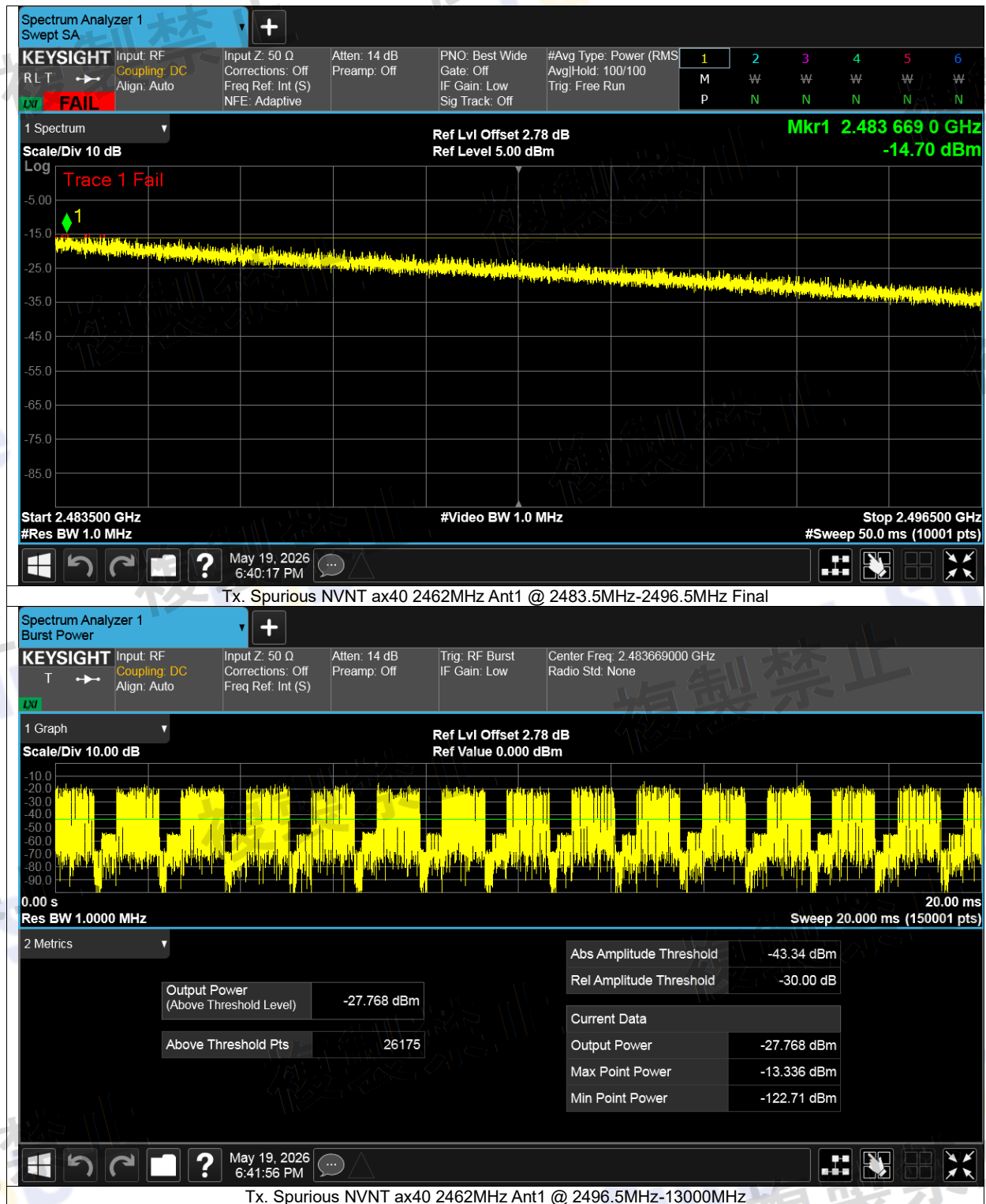


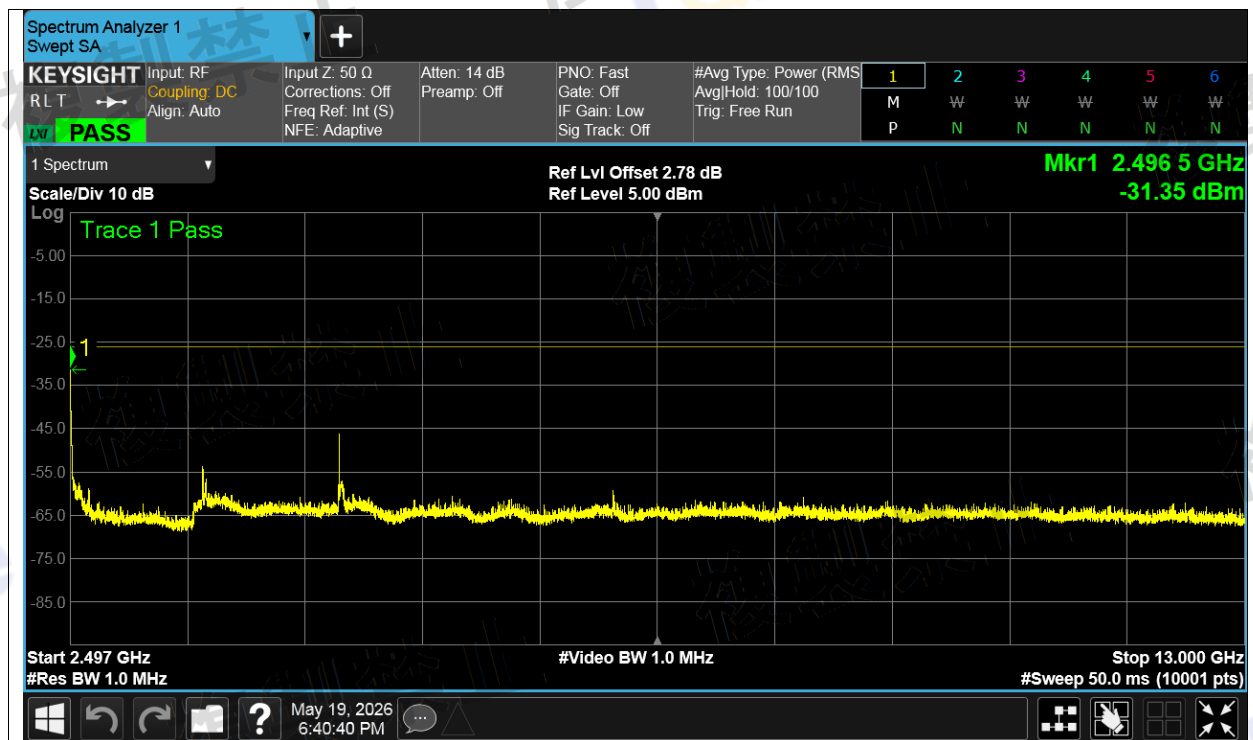


















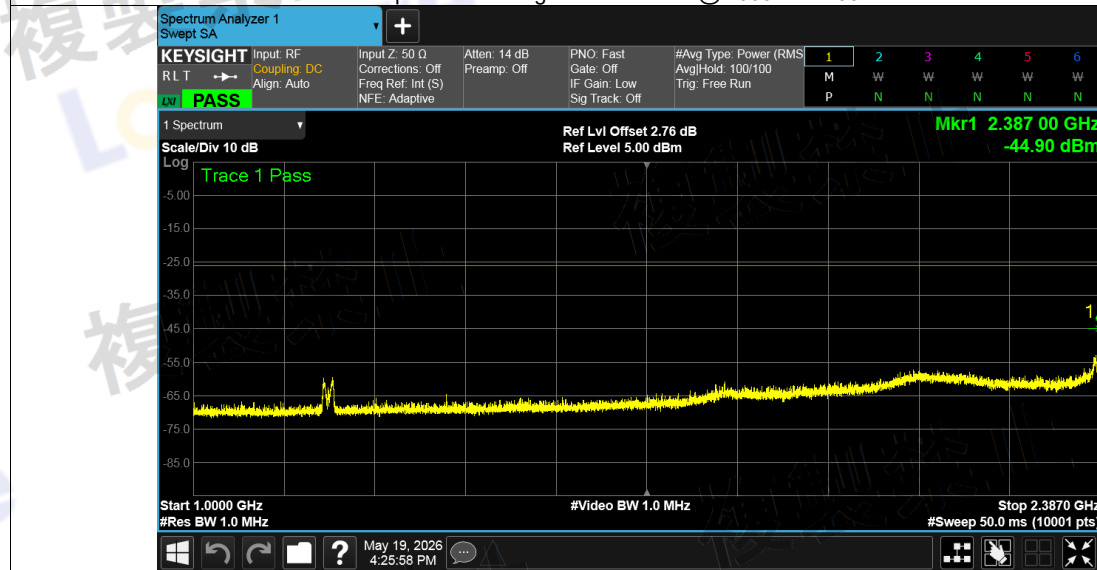




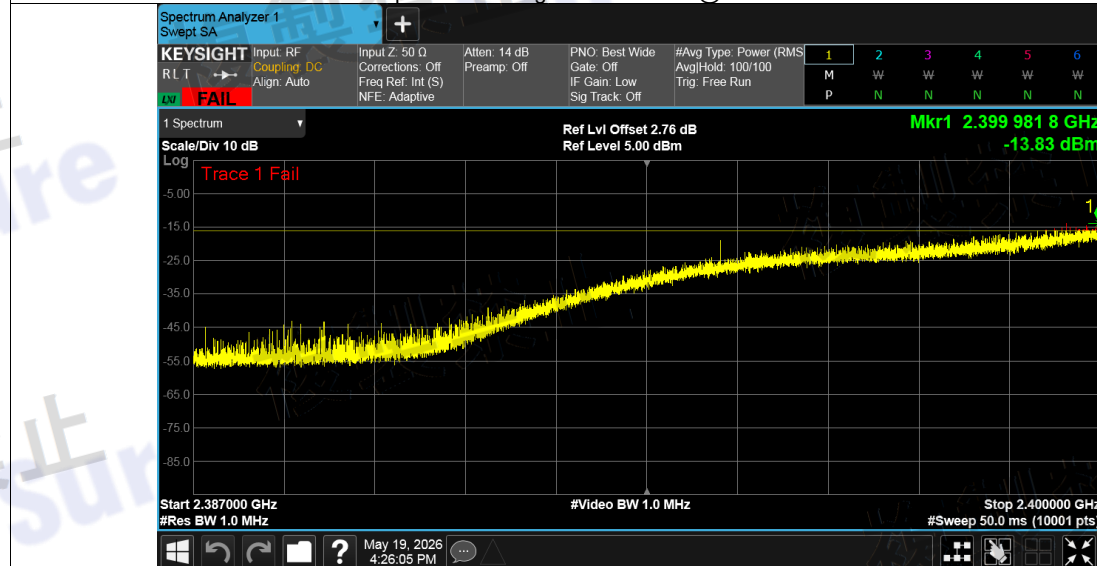




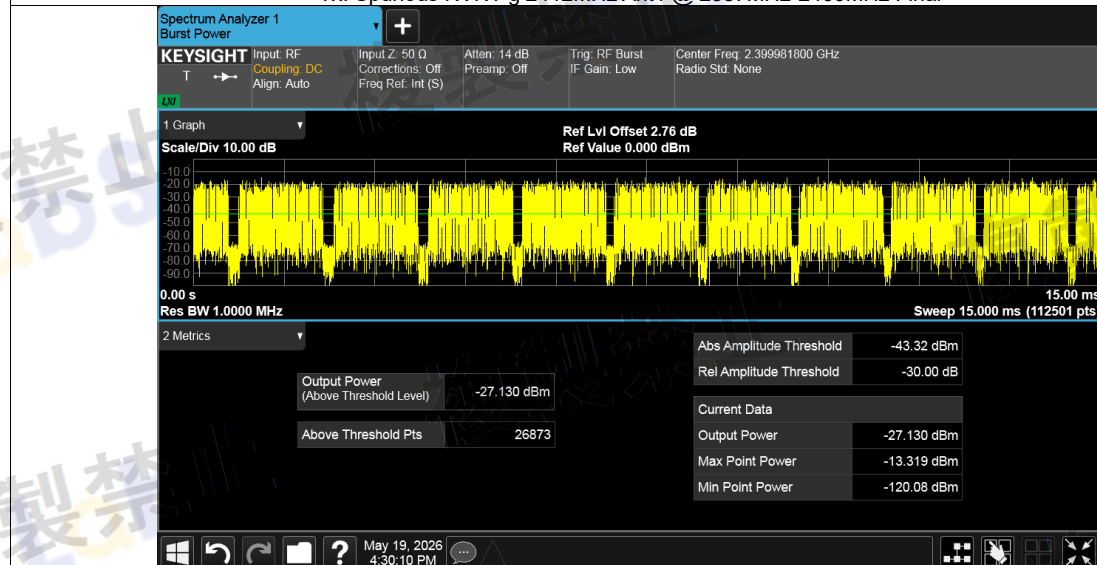
Tx. Spurious NVNT g 2412MHz Ant1 @ 1000MHz-2387MHz



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



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



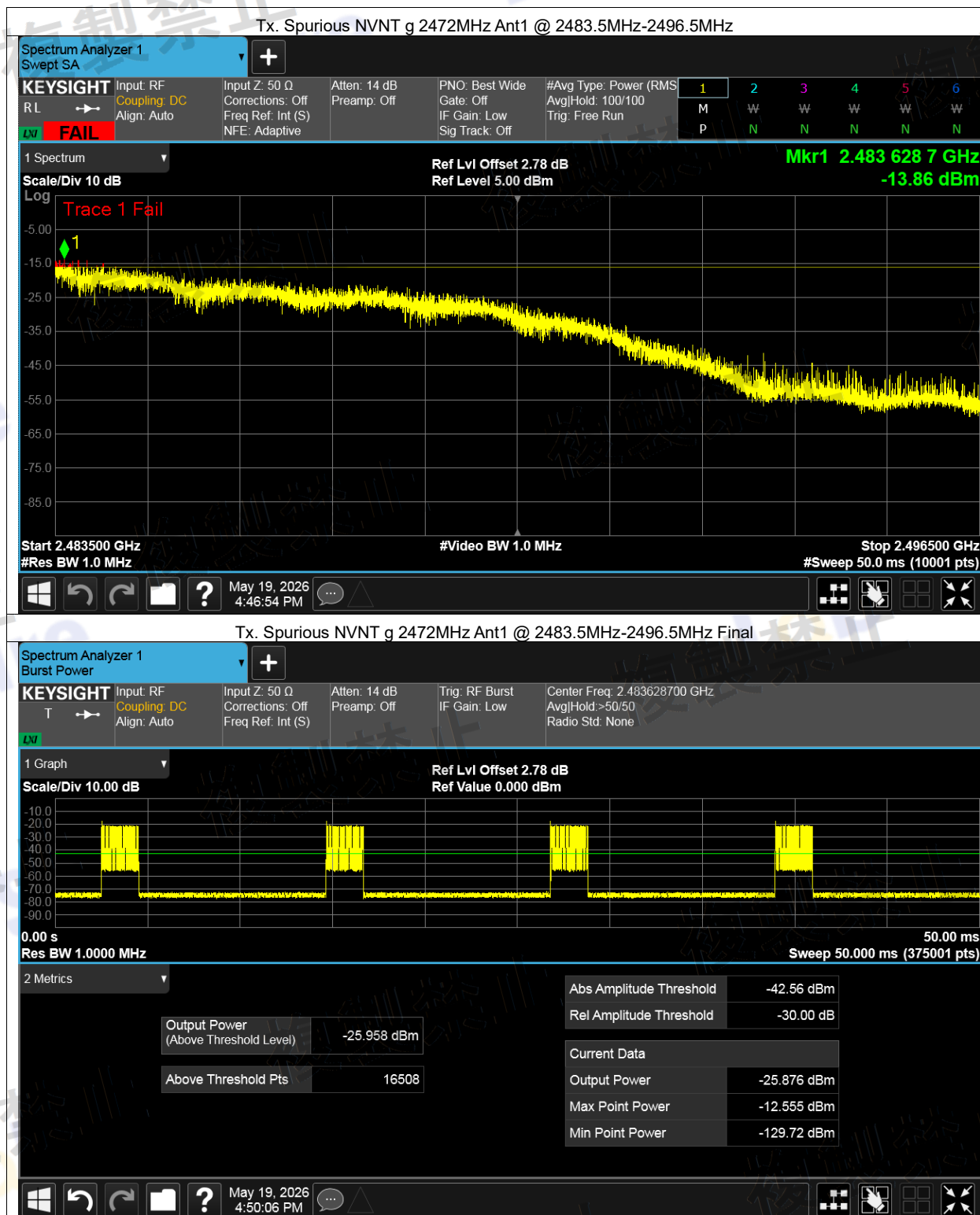






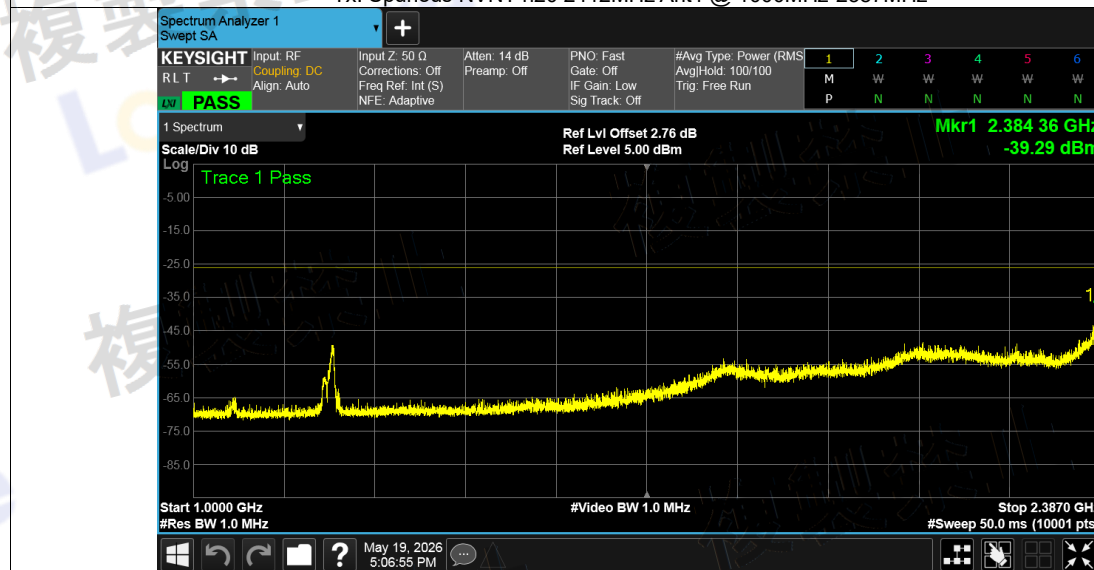




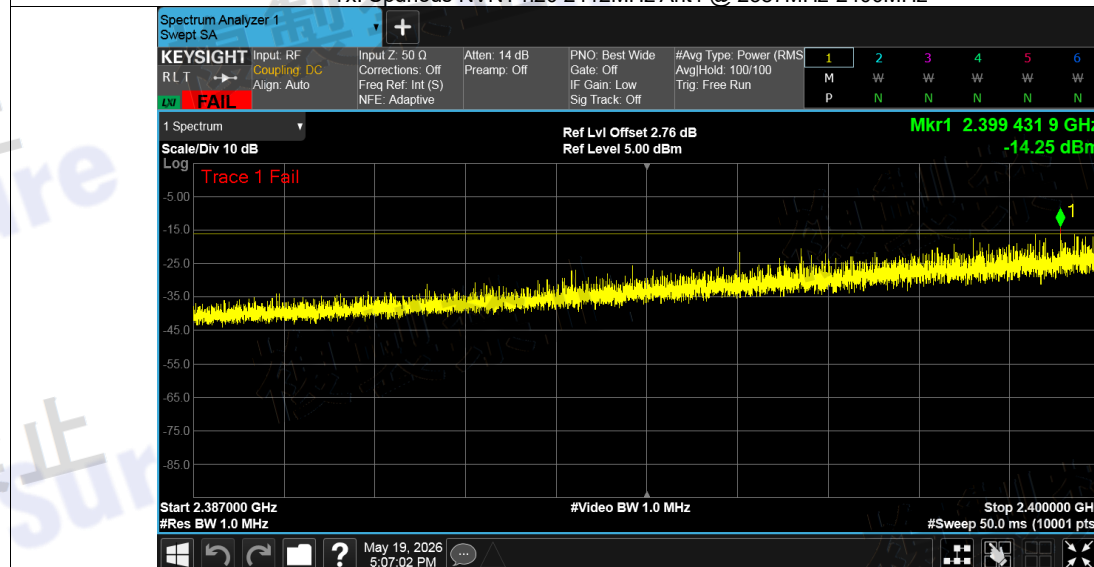




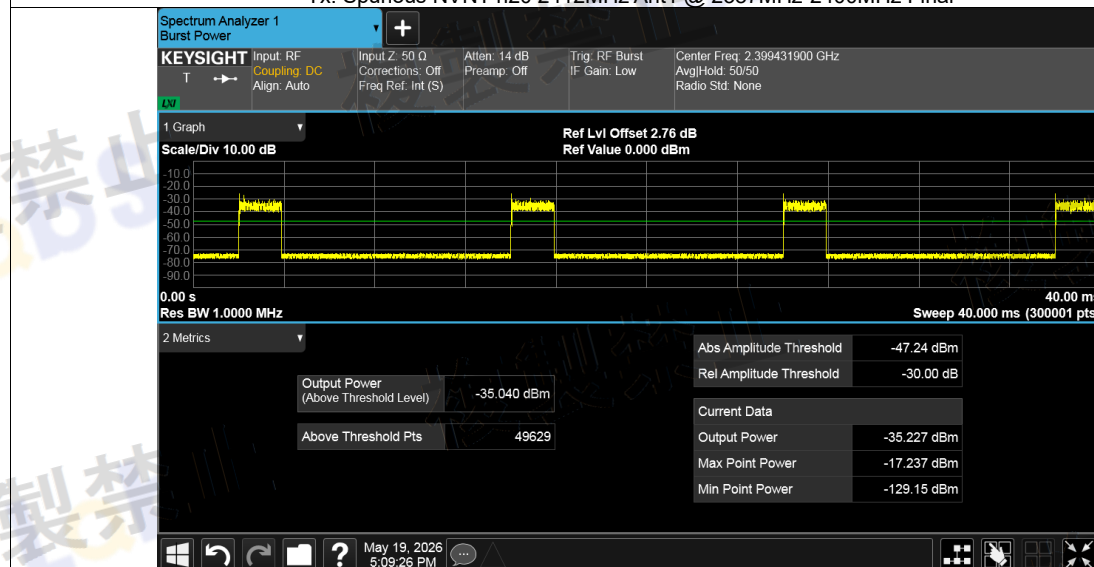
Tx. Spurious NVNT n20 2412MHz Ant1 @ 1000MHz-2387MHz



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



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















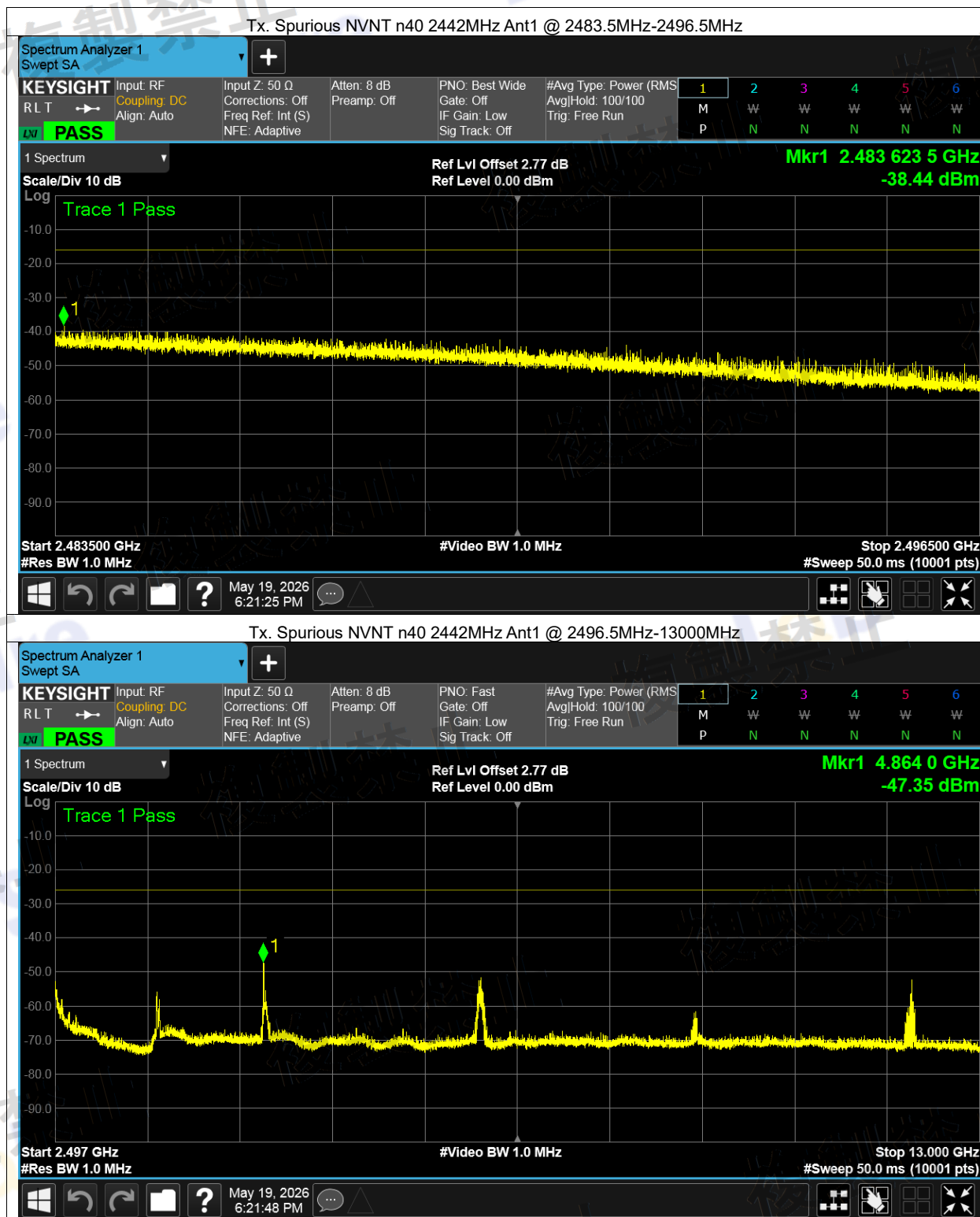




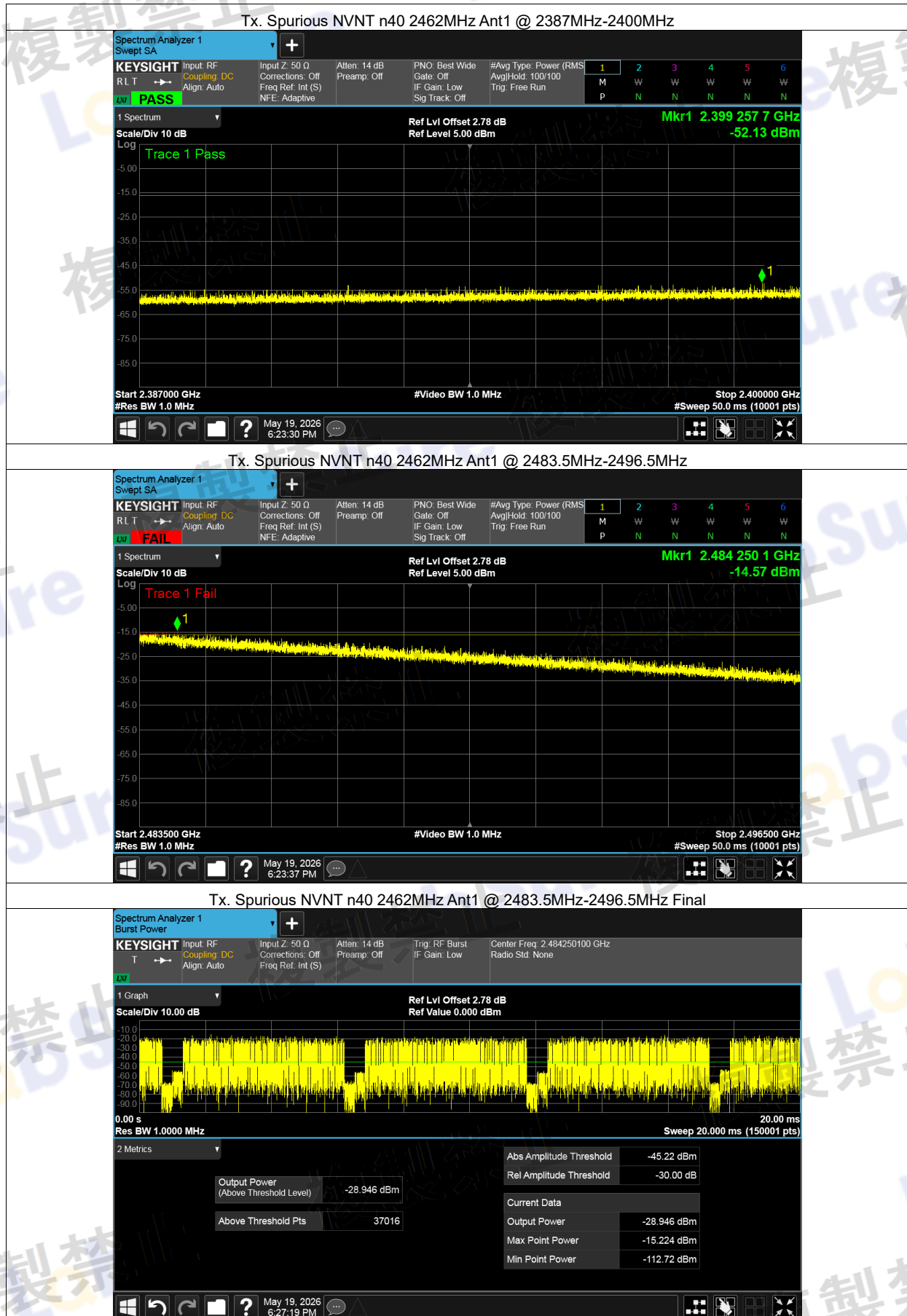




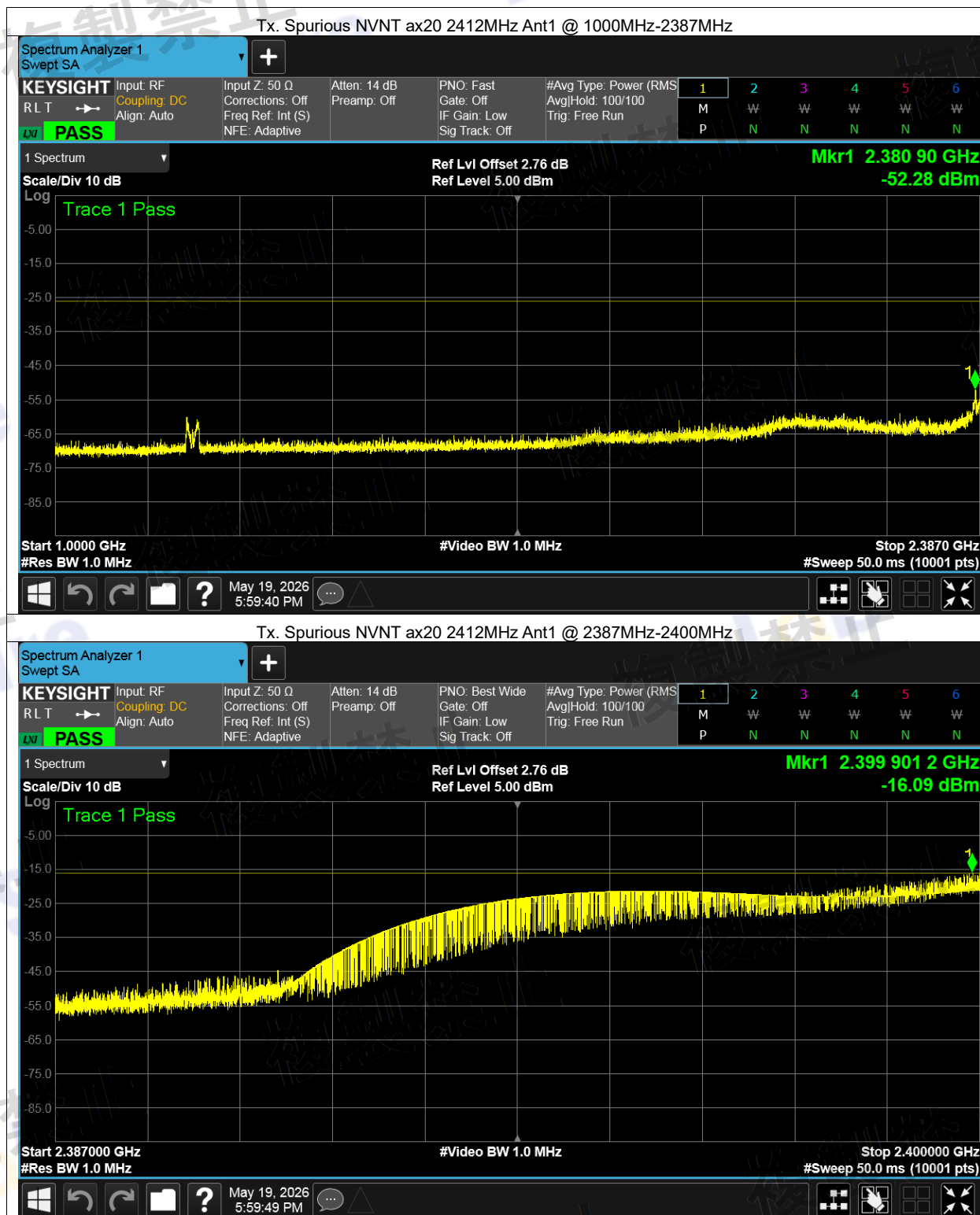




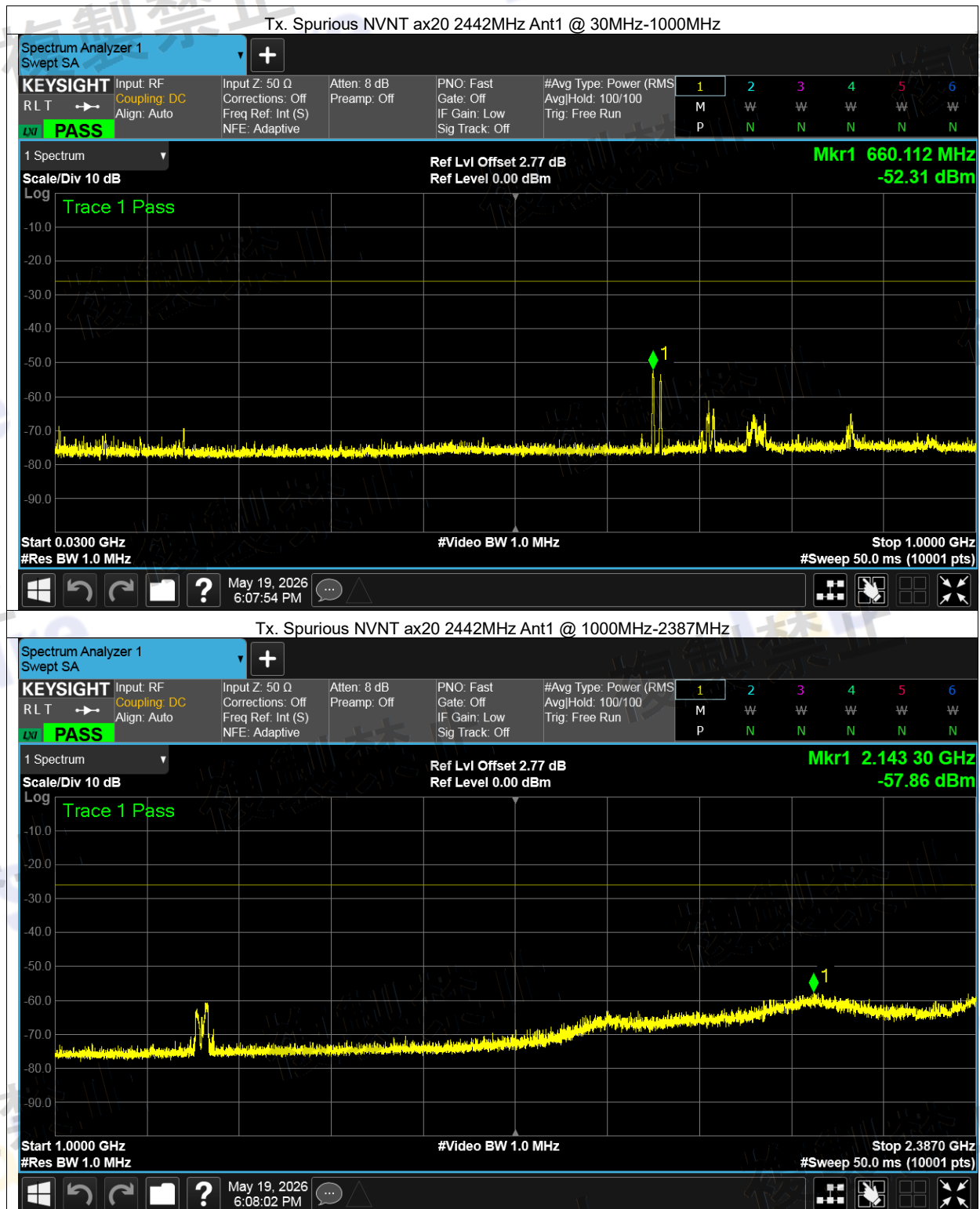




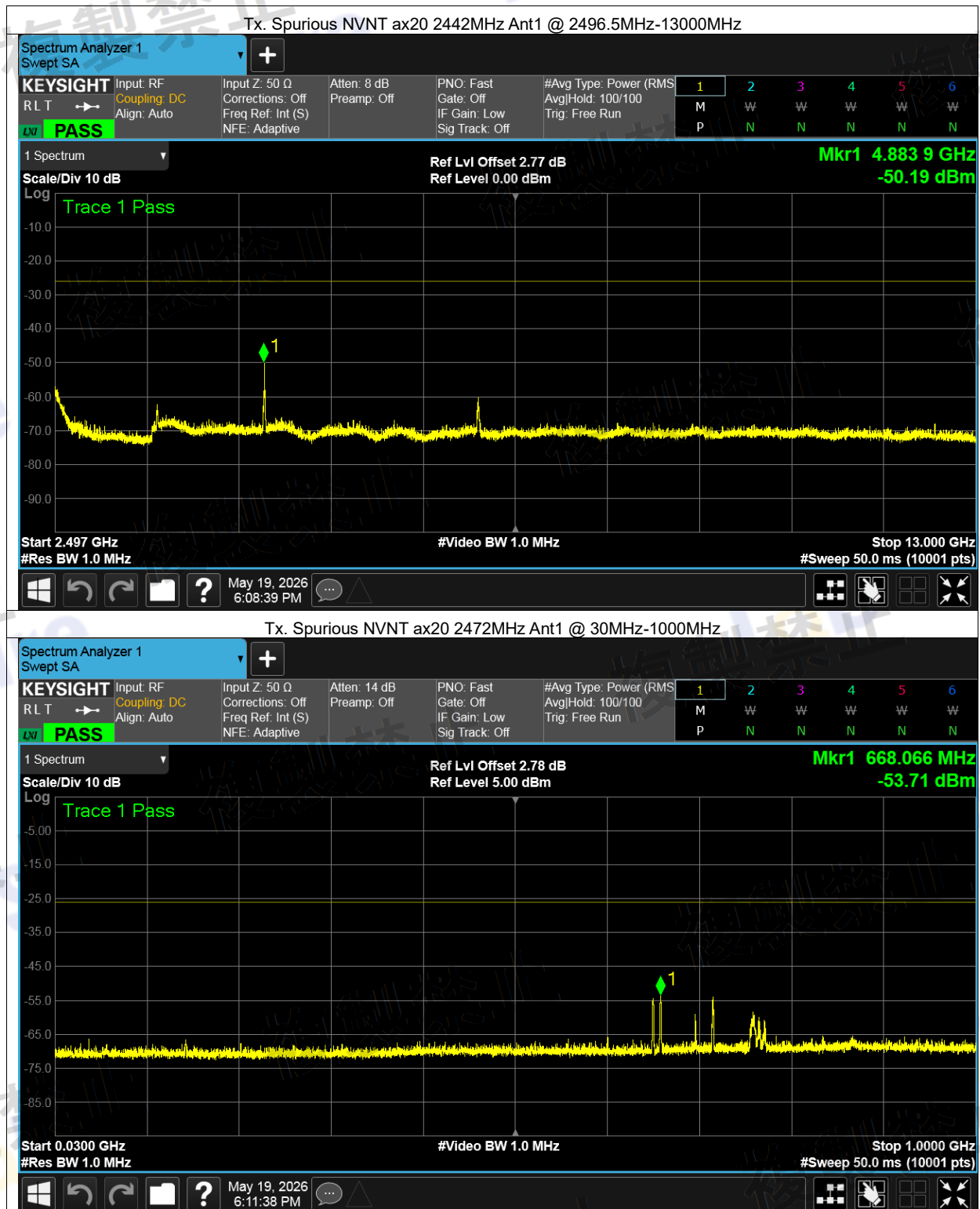


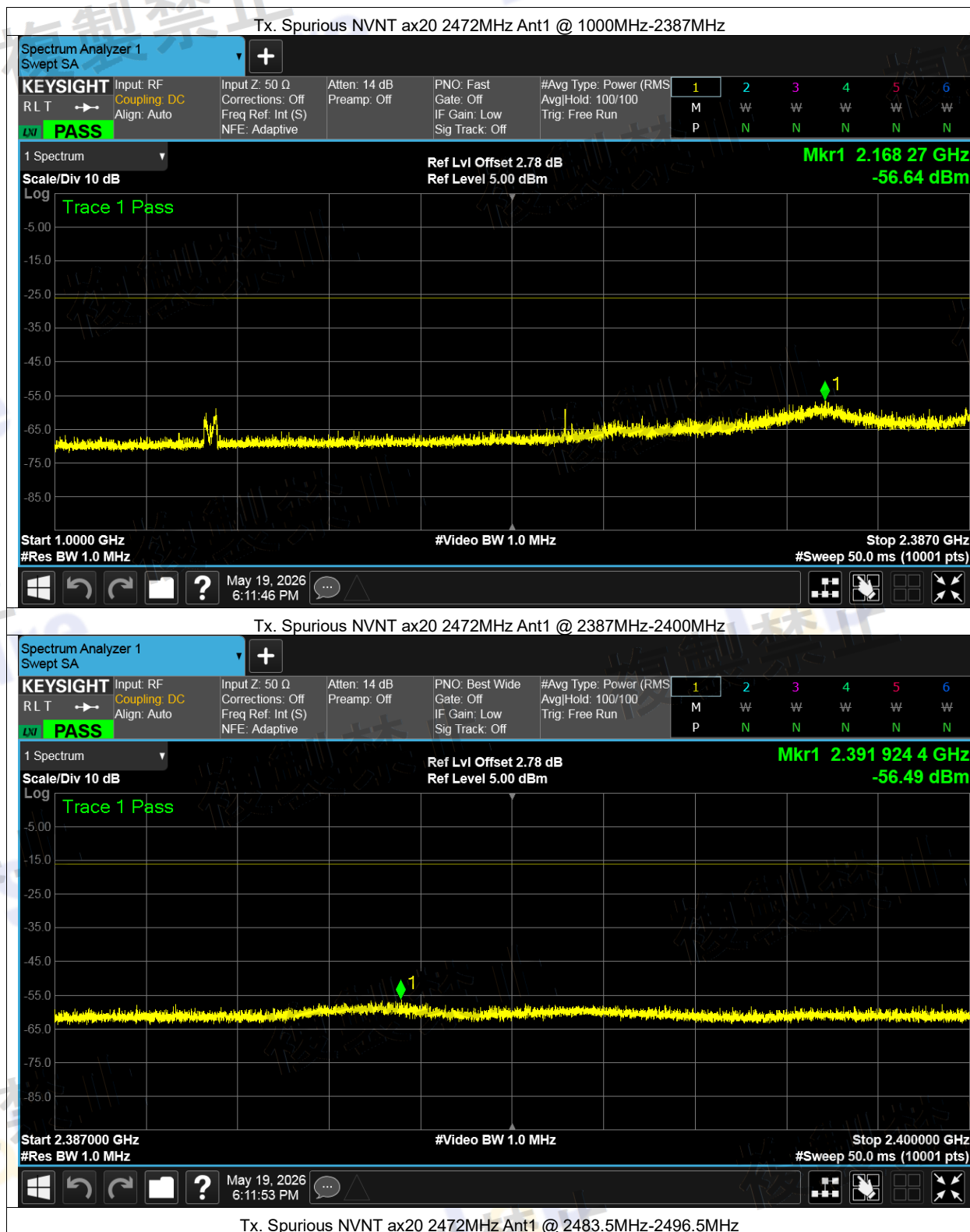


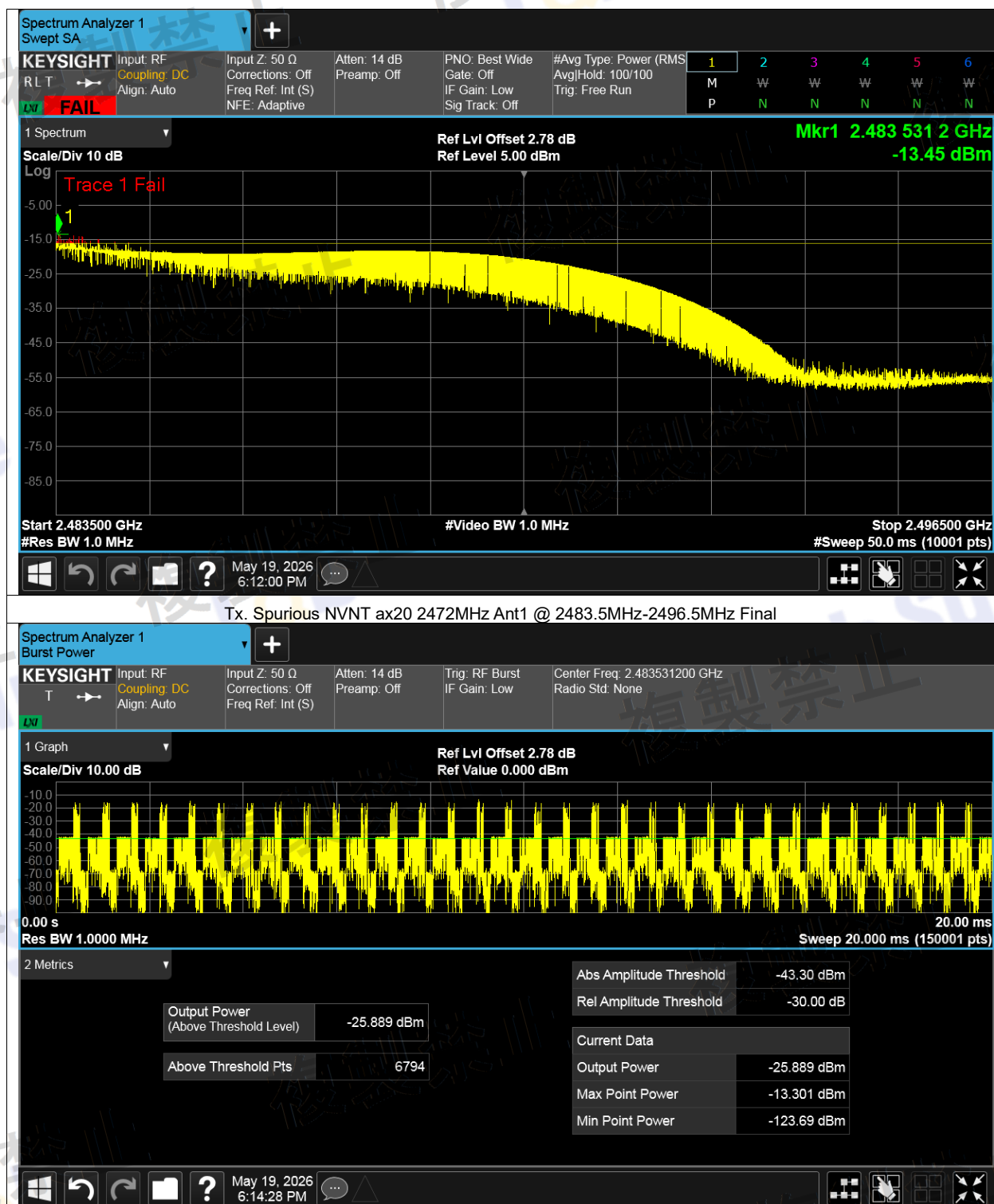




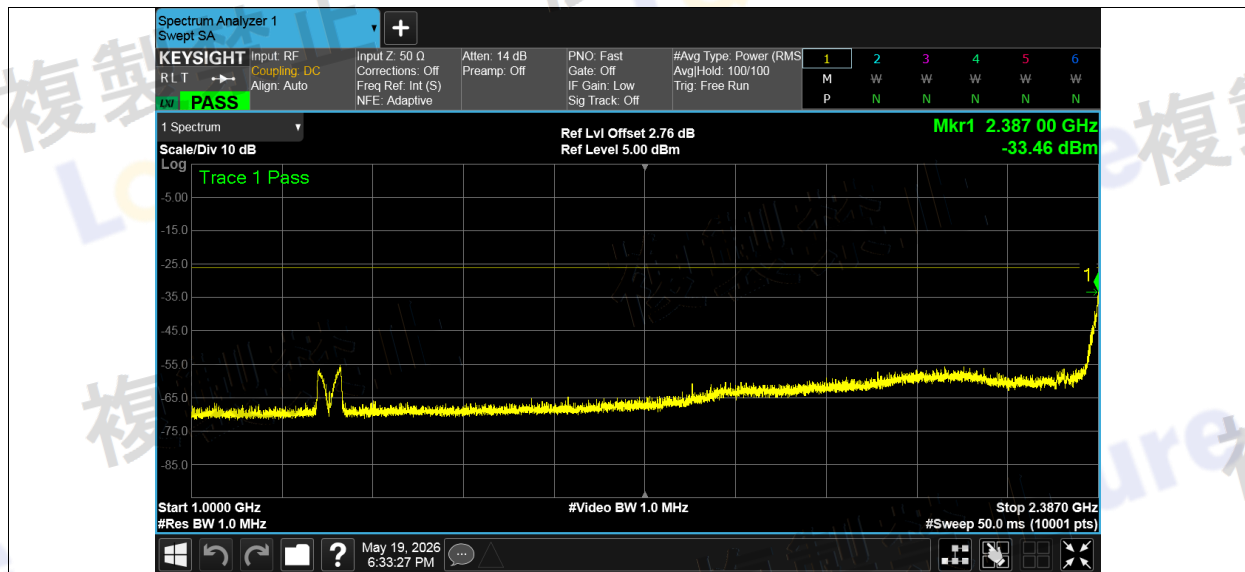




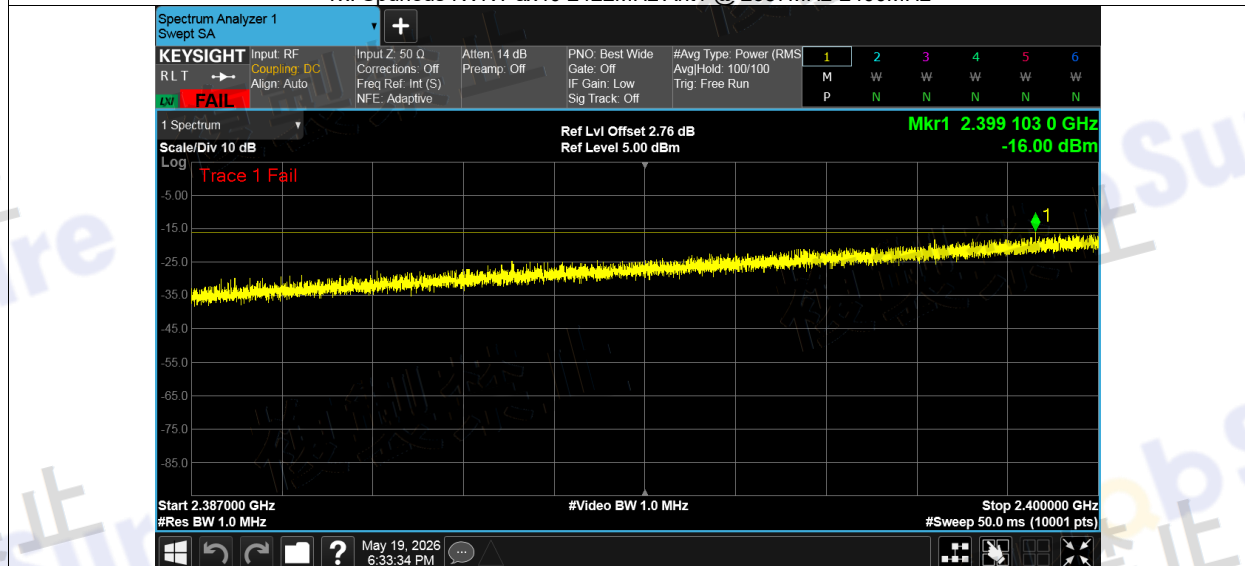




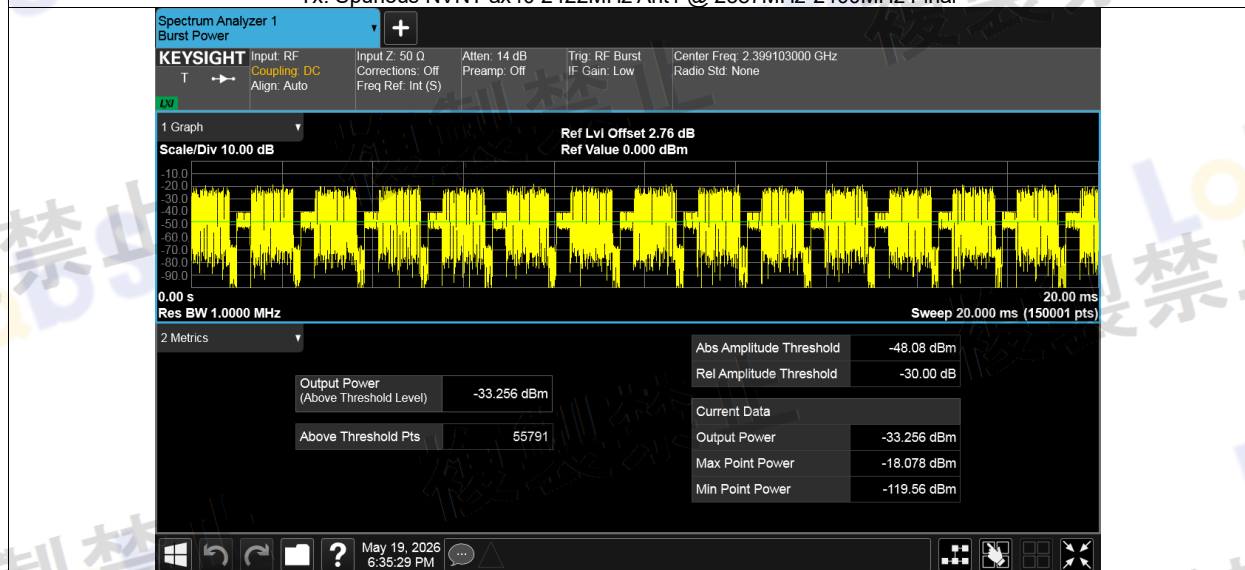




Tx. Spurious NVNT ax40 2422MHz Ant1 @ 2387MHz-2400MHz

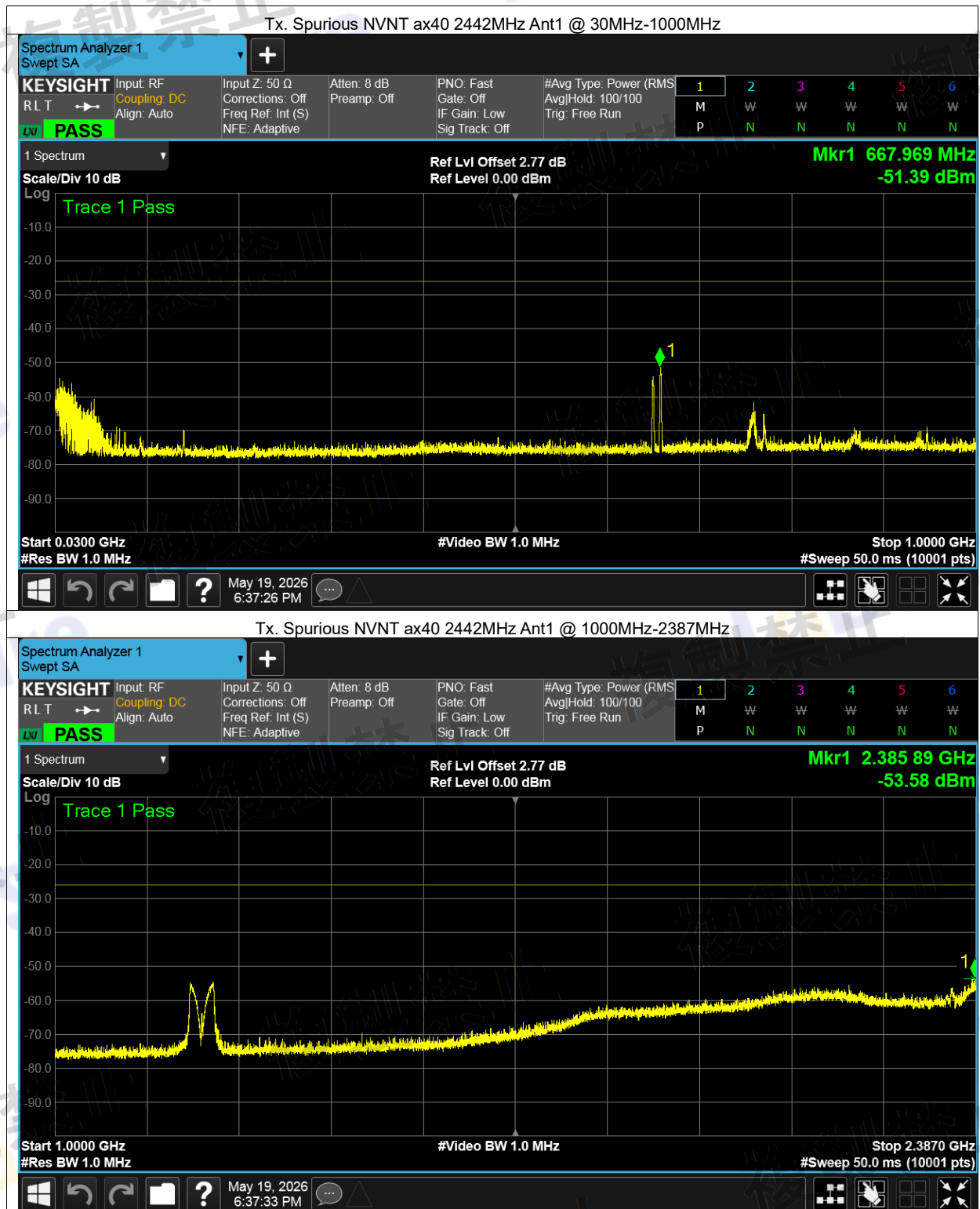


Tx. Spurious NVNT ax40 2422MHz Ant1 @ 2387MHz-2400MHz Final



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

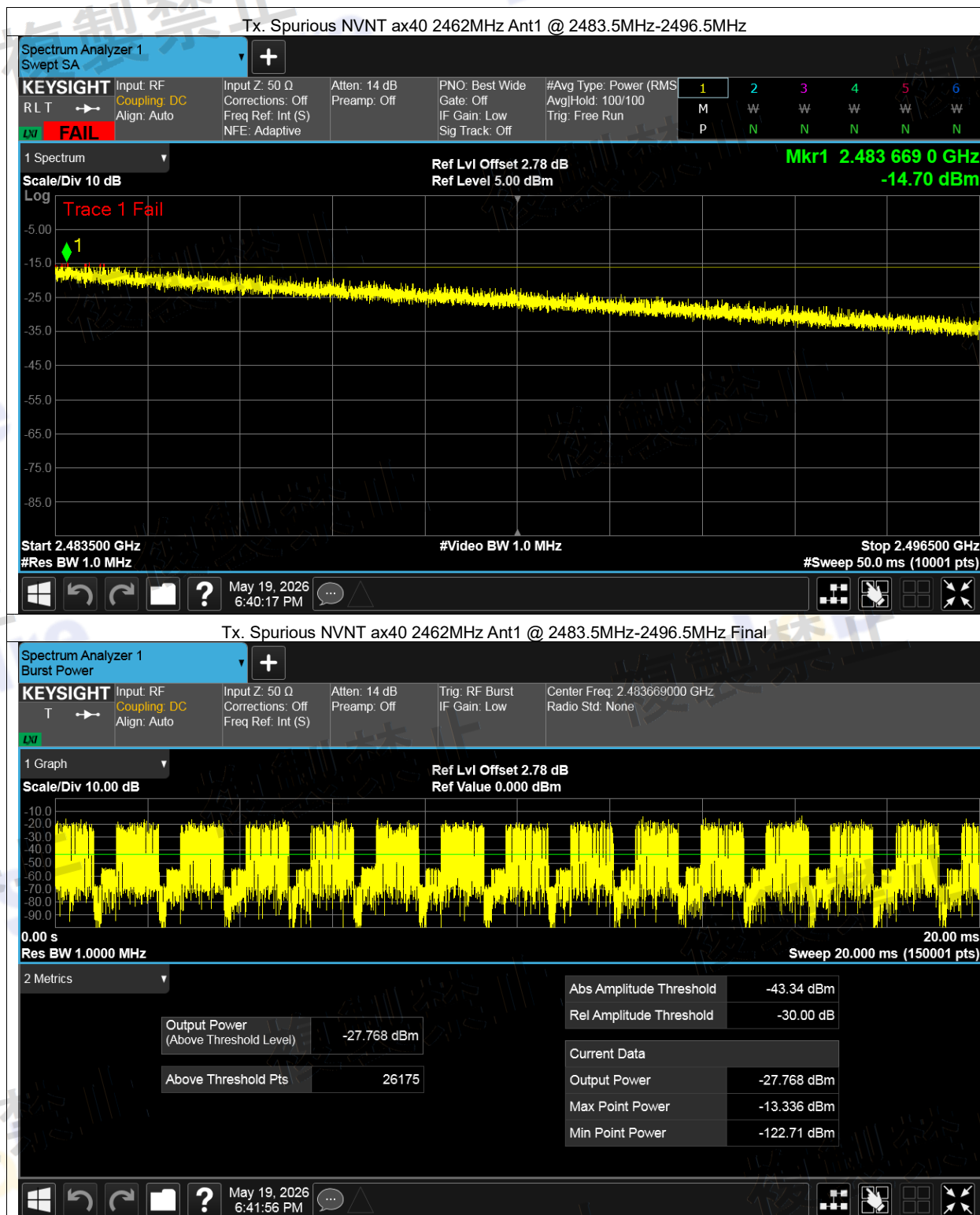


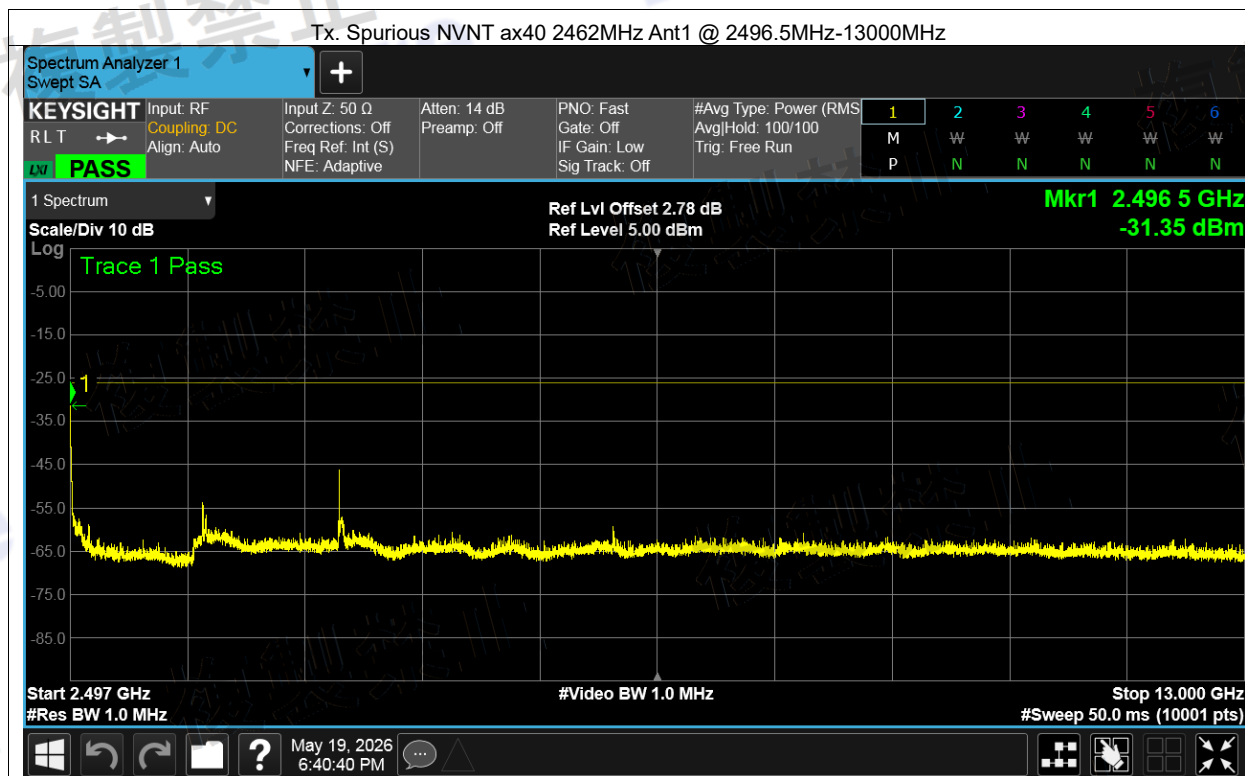












8. Secondary Radiated Emissions

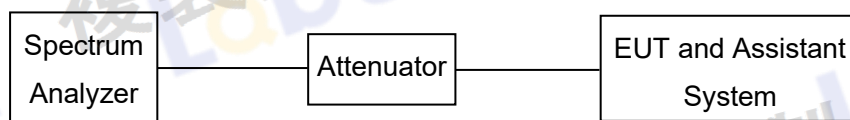
8.1. General Information

Test date	May. 19, 2026	Test engineer	Luke Li	
Climate condition	Ambient temperature	24.4℃	Relative humidity	64.9%
	Atmospheric pressure	100.56kPa		
Test place	EMC Room 1#			

8.2. Limit

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 (-54dBm) or less at a frequency below 1 GHz and 20 nW (-47dBm) or less at a frequency of 1 GHz or higher as measured using the circuit.

8.3. Block diagram of test setup



8.4. Test Procedure

- (1) Connected the EUT's antenna port to the Spectrum Analyzer by suitable attenuator.
- (2) Set the spectrum analyzer as below, search for the maximum amplitude of the secondary unwanted emissions.
 - Resolution BW: 100kHz for frequency below 1GHz and 1MHz for frequency above 1GHz.
 - Video BW: Same with Resolution BW
 - Detector: Peak
 - Trace Mode: Max. Hold
- (3) All the emissions from 30MHz to 12.5GHz were measured and record.
- (4) If the searched value is 1/10 or less of the allowable value specified in the Equipment Regulations, the searched value shall be the measured value.
- (5) If the searched value exceeds 1/10 of the allowable value specified in the equipment regulations, the frequency sweep width is gradually narrowed to about 10 times the resolution bandwidth in order to improve the setting accuracy of the center frequency of the spectrum analyzer. Then, measure the secondary emission frequency, set the spectrum analyzer as below, perform averaging, and measure the secondary emission power.
 - Centre Frequency: frequency of measured in (3).
 - Resolution BW: 1MHz
 - Video BW: 1 MHz
 - Span: 0Hz.
 - Detector: Sample.

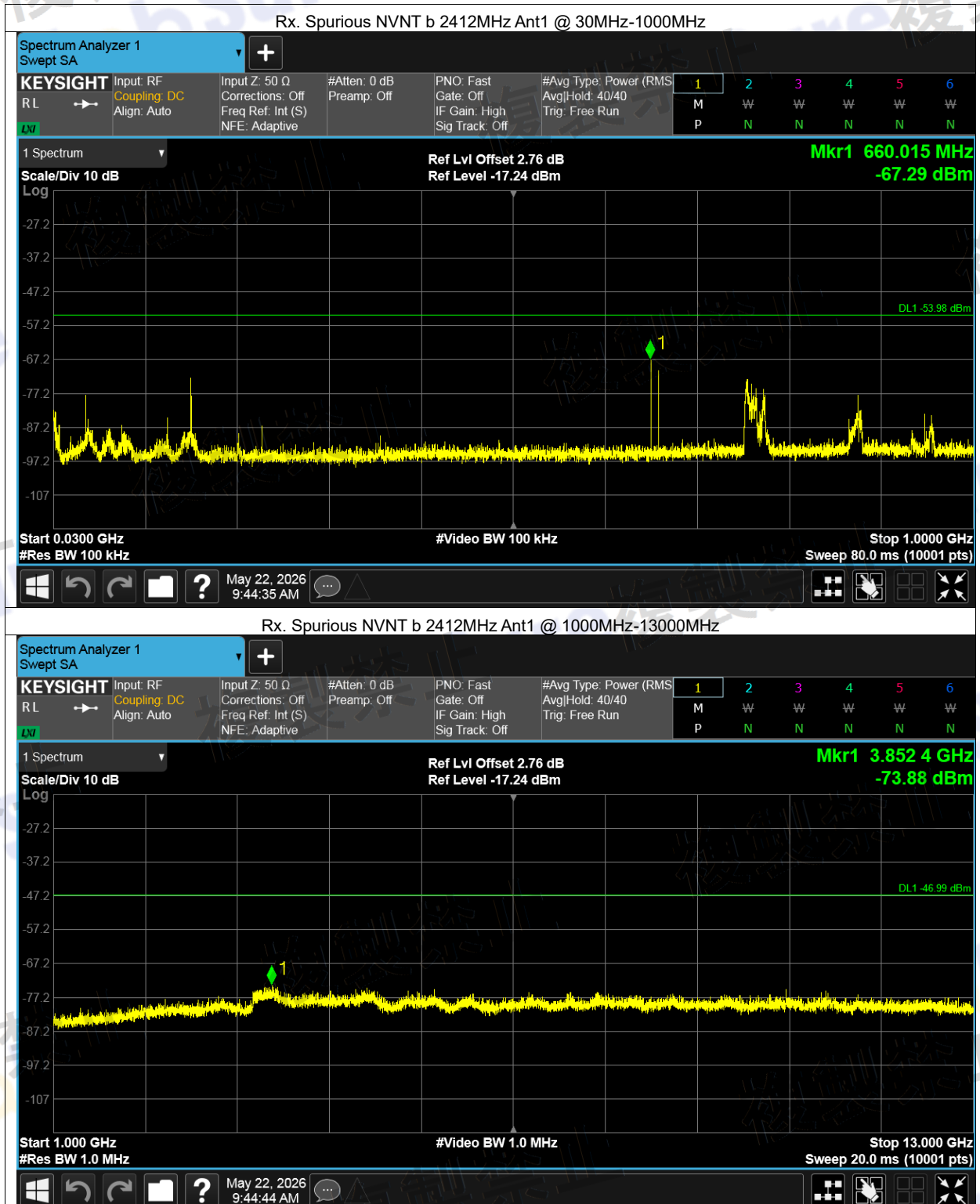
Sweep mode: Single

(6) If there are multiple antennas, it is measured at each antenna.

8.5. Test Result

Condition	Mode	Frequency (MHz)	Antenna	Range (MHz)	Emission Frequency (MHz)	Max Peak Value (dBm)	Max Peak Value (nW)	Average Burst Value (dBm)	Average Burst Value (nW)	Limit (nW)	Verdict
NVNT	b	2412	Ant1	30-1000	660.02	-67.29	0.1866	NA	NA	4	Pass
NVNT	b	2412	Ant1	1000-13000	3852.40	-73.88	0.0409	NA	NA	20	Pass
NVNT	b	2442	Ant1	30-1000	660.02	-66.77	0.2104	NA	NA	4	Pass
NVNT	b	2442	Ant1	1000-13000	3874.00	-73.30	0.0468	NA	NA	20	Pass
NVNT	b	2472	Ant1	30-1000	660.02	-65.79	0.2636	NA	NA	4	Pass
NVNT	b	2472	Ant1	1000-13000	3848.80	-73.22	0.0476	NA	NA	20	Pass
NVNT	g	2412	Ant1	30-1000	660.02	-67.88	0.1629	NA	NA	4	Pass
NVNT	g	2412	Ant1	1000-13000	4297.60	-74.38	0.0365	NA	NA	20	Pass
NVNT	g	2442	Ant1	30-1000	660.02	-67.03	0.1982	NA	NA	4	Pass
NVNT	g	2442	Ant1	1000-13000	3686.80	-73.48	0.0449	NA	NA	20	Pass
NVNT	g	2472	Ant1	30-1000	660.02	-65.59	0.2767	NA	NA	4	Pass
NVNT	g	2472	Ant1	1000-13000	1728.40	-68.66	0.1361	NA	NA	20	Pass
NVNT	n20	2412	Ant1	30-1000	660.02	-66.37	0.2307	NA	NA	4	Pass
NVNT	n20	2412	Ant1	1000-13000	3794.80	-73.12	0.0488	NA	NA	20	Pass
NVNT	n20	2442	Ant1	30-1000	660.02	-68.52	0.1406	NA	NA	4	Pass
NVNT	n20	2442	Ant1	1000-13000	3875.20	-72.05	0.0624	NA	NA	20	Pass
NVNT	n20	2472	Ant1	30-1000	660.02	-65.93	0.2553	NA	NA	4	Pass
NVNT	n20	2472	Ant1	1000-13000	1729.60	-73.59	0.0438	NA	NA	20	Pass
NVNT	n40	2422	Ant1	30-1000	660.02	-66.88	0.2051	NA	NA	4	Pass
NVNT	n40	2422	Ant1	1000-13000	5132.80	-73.74	0.0423	NA	NA	20	Pass
NVNT	n40	2442	Ant1	30-1000	660.02	-67.31	0.1858	NA	NA	4	Pass
NVNT	n40	2442	Ant1	1000-13000	3776.80	-73.75	0.0422	NA	NA	20	Pass
NVNT	n40	2462	Ant1	30-1000	660.02	-68.21	0.151	NA	NA	4	Pass
NVNT	n40	2462	Ant1	1000-13000	1711.60	-71.26	0.0748	NA	NA	20	Pass
NVNT	ax20	2412	Ant1	30-1000	660.02	-67.28	0.1871	NA	NA	4	Pass
NVNT	ax20	2412	Ant1	1000-13000	3811.60	-73.87	0.041	NA	NA	20	Pass
NVNT	ax20	2442	Ant1	30-1000	660.02	-69.13	0.1222	NA	NA	4	Pass
NVNT	ax20	2442	Ant1	1000-13000	3798.40	-73.75	0.0422	NA	NA	20	Pass
NVNT	ax20	2472	Ant1	30-1000	660.02	-66.93	0.2028	NA	NA	4	Pass
NVNT	ax20	2472	Ant1	1000-13000	3786.40	-73.05	0.0495	NA	NA	20	Pass
NVNT	ax40	2422	Ant1	30-1000	660.02	-66.70	0.2138	NA	NA	4	Pass
NVNT	ax40	2422	Ant1	1000-13000	3775.60	-73.72	0.0425	NA	NA	20	Pass
NVNT	ax40	2442	Ant1	30-1000	660.02	-66.34	0.2323	NA	NA	4	Pass
NVNT	ax40	2442	Ant1	1000-13000	3772.00	-72.98	0.0504	NA	NA	20	Pass
NVNT	ax40	2462	Ant1	30-1000	761.19	-68.36	0.1459	NA	NA	4	Pass
NVNT	ax40	2462	Ant1	1000-13000	1728.40	-71.67	0.0681	NA	NA	20	Pass

8.6. Test Graphs

































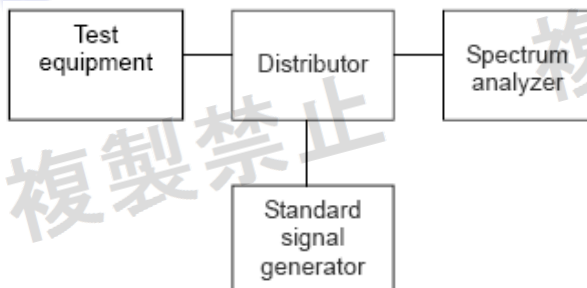




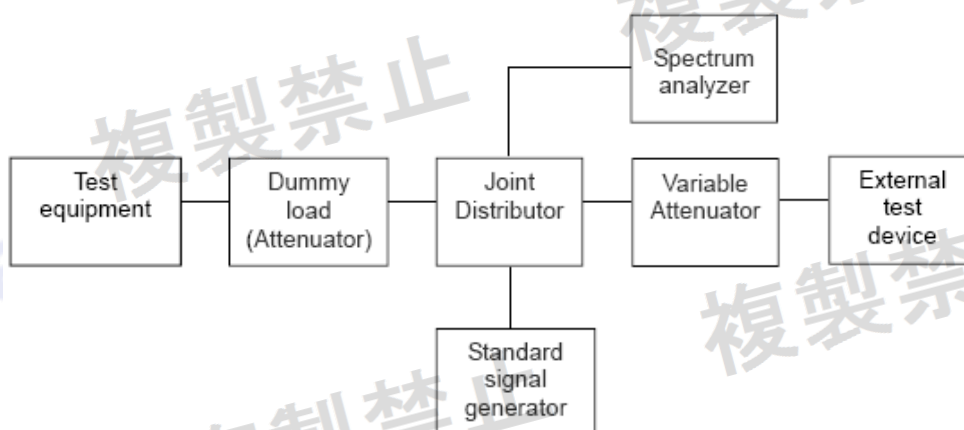
9. Carrier Sense Measurement

1) Measurement system diagram

(1) Test with test equipment only



(2) Test with external test device



2) Condition of measuring instrument

(1) Set the standard signal generator as follows:

Carrier frequency: Center frequency of receiving frequency band of test equipment
 Modulation: No modulation. (note1)
 Output level: regulated level on antenna input of test equipment

Note 1: The un-modulated carrier in the center frequency, when the carrier sense function of test equipment is not worked, if necessary, change the frequency or modulate it.

(2) Set the spectrum analyzer as follows:

Center frequency: Center frequency of the bandwidth used (note2)
 Sweep frequency band: 50MHz (note2)
 Resolution bandwidth: Approximately 1 MHz
 Video bandwidth: Comparable level with resolution bandwidth
 Trigger condition: Free-run
 Detective mode: positive peak

Note 2: Under 26MHz of OFDM or other modulated method that with transmit function, set sweep frequency band as 0Hz, detective mode as sample, center frequency as the carrier frequency from 13MHz to 19MHz.

(3) External test device must be the one that can connect with the test equipment by line connection. However, facing device that can communicate with the test equipment can substitute

it.

3) Condition of test equipment

Set the test equipment at the test frequency and the test spread code, and set it to the receiving mode in the beginning. When using external test device, connect with the test equipment by line connection.

4) Measuring operation procedure

(1) Test with test equipment only:

A) Set the spectrum analyzer according to (2) of 2).

B) Set the test equipment to the transmitting operation with the output of standard signal generator OFF, and confirm that it emits over 26MHz occupied frequency bandwidth OFDM radio wave, by using spectrum analyzer.

C) Set the test equipment to the receiving mode.

D) With the output of standard signal generator ON, set the test equipment to the transmitting operation, and confirm that it does not emit over 26MHz occupied frequency bandwidth OFDM radio wave, by using spectrum analyzer.

(2) Test with external device

A) Set the spectrum analyzer according to (2) of 2).

B) Set the output of standard signal generator OFF.

C) Connect test equipment and external test device with line connection. Confirm that it emits over 26MHz occupied frequency bandwidth OFDM radio wave, by using spectrum analyzer.

D) Set the test equipment to the receiving mode.

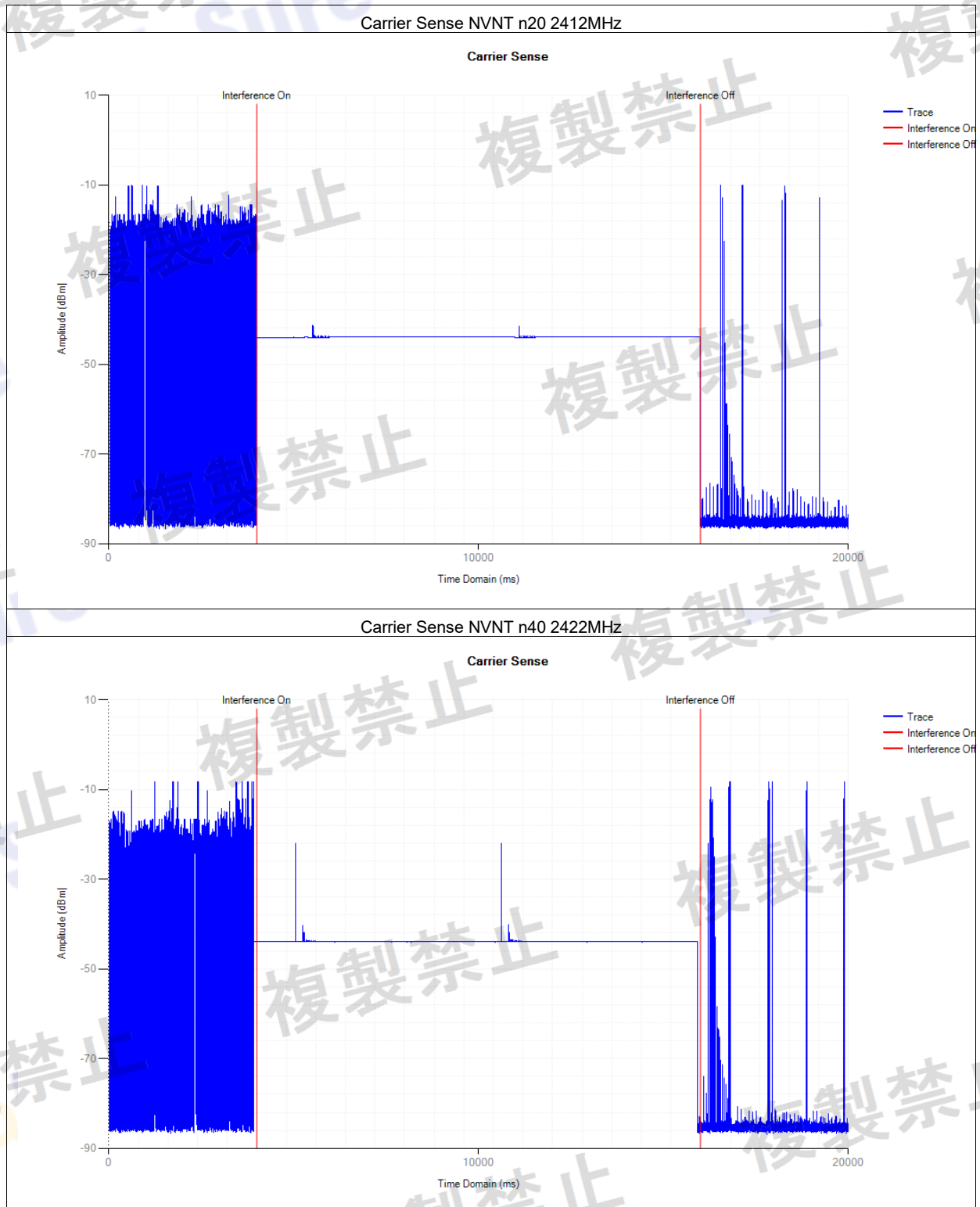
E) With the output of standard signal generator ON, set the test equipment to the transmitting operation, and confirm that it does not emit over 26MHz occupied frequency bandwidth OFDM radio wave, by using spectrum analyzer.

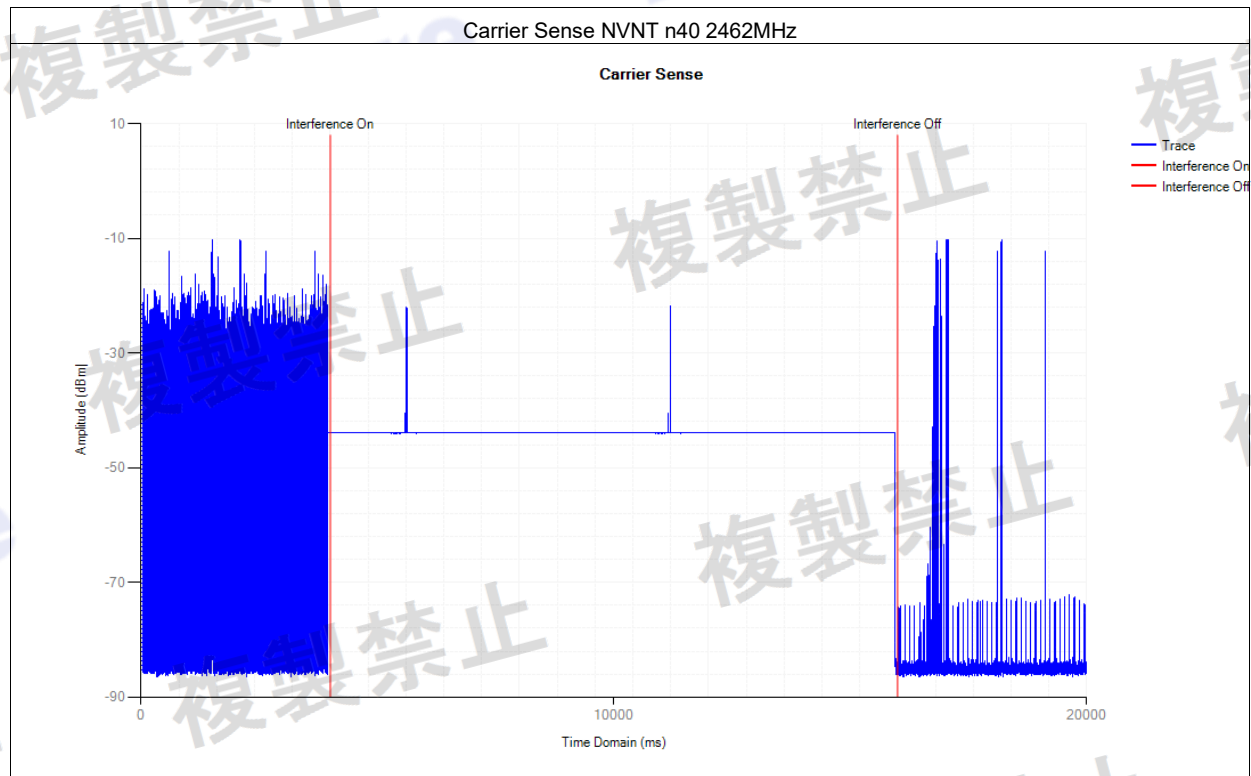
9.1. Test Result

Condition	Mode	Frequency (MHz)	CW Level (dBm)	Verdict
NVNT	n20	2412	-41.94	Pass
NVNT	n40	2422	-41.98	Pass
NVNT	n40	2462	-42.12	Pass

Remark: Pre-testing all test modes, bandwidth and channels, only the data of the worst cases are included in this report.

9.2. Test Graphs

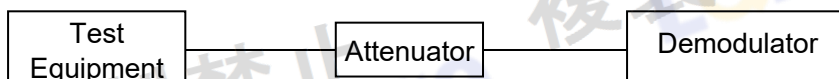




10. Interference prevention function

10.1. Measurement system diagram

1) When transmitting identification code



2) Condition of measuring instrument

Demodulator must be able to demodulate the transmitting signal emitted by test equipment and to indicate the identification code.

3) Condition of test equipment the mode of normal use.

10.2. Measuring operation procedure

1) When test equipment has the function to transmit identification code automatically:

A) Transmit the predetermined identification code from test equipment.

B) Confirm the transmitted identification code by demodulator.

MAC address: B0:8C:B3:E8:E4:7C

10.3. Test result: The unit does meet the requirements (Good).

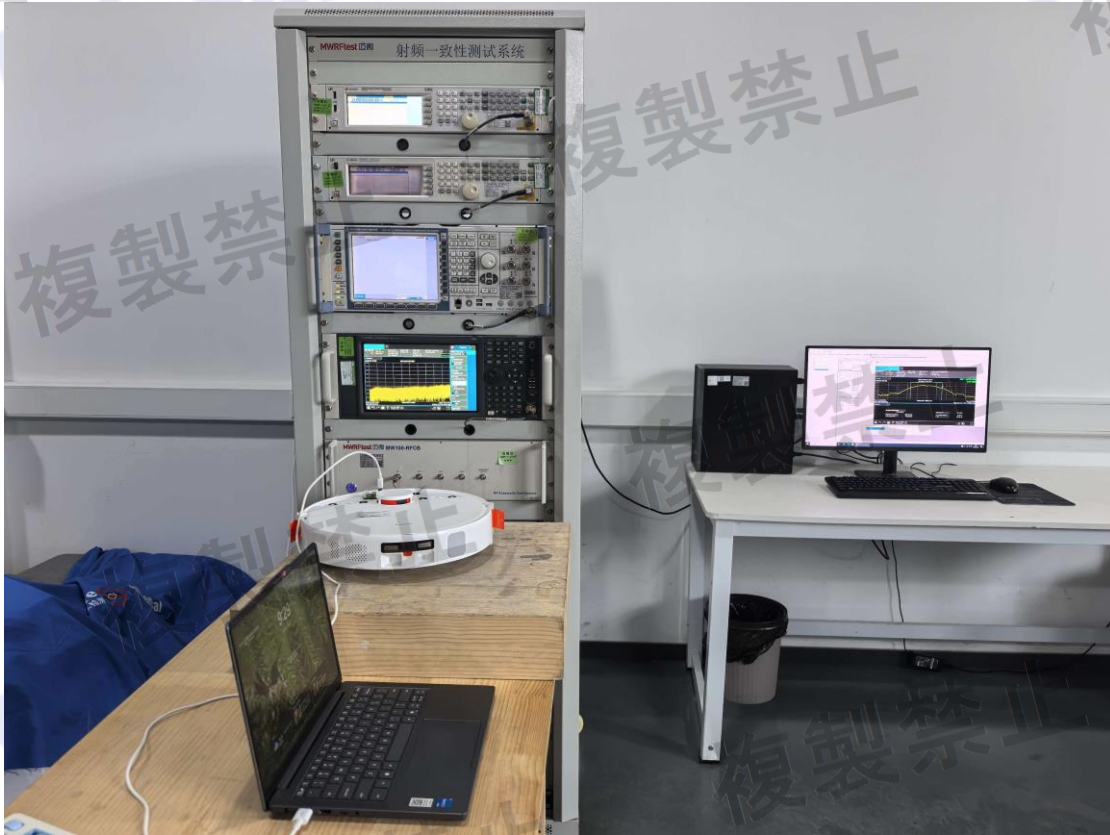
Test result: The unit does meet the requirements.

PASS





11. Test setup photograph



12. Photos of the EUT

Please find the photos of EUT in APPENDIXES.

END OF REPORT