

**TEST REPORT**

Report Reference No.....: HTT202511830Y1

Compiled by

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Date of issue.....: Dec. 03, 2025

Testing Laboratory Name.....: Shenzhen HTT Technology Co., Ltd.

Address.....: 1F, B Building, Huafeng International Robotics Industrial Park,
Gushu, Xixiang Street, Bao'an District, Shenzhen

Applicant.....: JEDIC CO., LTD.

Address.....: 900-1 AZA-SHINMACHI. OAZA-IRUKADESHINDEN
KOMAKI-CITY. AICHI JAPAN

Test specification :

Standard.....: Ordinance Article 2 paragraph 1 item (19)

Test item description: LED Smart Stable Light Scene Switch

Trade Mark.....: 

Xiamen Viantek Technology.Co.,LTD

Manufactured by.....: Room 601, No. 294, Lianqian West Road, Siming District, Xiamen
City, Fujian Province, China

Model/Type reference.....: DTP-S2-F6-BY

Serial Model.....: VN-S01, VN-S02

Rating(s): Battery: DC 3.0V (CR2032*2PCS)

Result.....: PASS



TEST REPORT

Test Report No. :

HTT202511830Y1

Dec. 03, 2025

Date of issue

Equipment under Test : LED Smart Stable Light Scene Switch

Model Name : DTP-S2-F6-BY

Serial Model : VN-S01, VN-S02

Model difference : Only differences in color and model.

Trade Mark 

Applicant : JEDIC CO., LTD.

Address : 900-1 AZA-SHINMACHI. OAZA-IRUKADESHINDEN
KOMAKI-CITY. AICHI JAPAN

Manufactured by : Xiamen Viantek Technology.Co.,LTD

Address : Room 601, No. 294, Lianqian West Road, Siming District,
Xiamen City, Fujian Province, China

Test Result:

PASS

The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.



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1. SUMMARY

1.1. Test Standards

The tests were performed according to following standards:

[ARIB STD-T66](#): Second-Generation Low-Power Data Communication System/Wireless LAN System
[MIC Notice No.88 Appendix No. 43](#): 2.4 GHz band wide-band low-power data communication system

1.2. Test Description

ARIB STD-T66		
ARIB STD-T66	Test Description	Test Results
3.2 (2)	Antenna Power	Complies
3.2 (3)	Tolerances for Antenna Power	Complies
3.2 (4)	Frequency Tolerance	Complies
3.2 (5)	Transmission Rate	Complies
3.2 (7)	Occupied Frequency Bandwidth	Complies
3.2 (8)	Spread Bandwidth	Complies
3.2 (11)	Dwell Time	N/A
3.2 (6)	Spurious Emissions	Complies
3.6	Transmission Antenna Gain (EIRP Antenna Power)	N/A
3.6	Transmission Radiated Angle Width (3dB Beam width)	N/A
/	Interference prevention function	Complies
/	Carrier Sensing function	N/A
Receiver Parameters		
3.3 (1)	Secondary Radiated Emissions	Complies
(1) N/A is an abbreviation for Not Applicable.		

Note: 1: "N/A" denotes test is not applicable in this Test Report

2: MIC Public Notice 88:2004, annex 1 and annex 43

3: MIC Ordinance Regulating Radio Equipment Section 4.17 of Article 49.20

4: Referenced in the standard ARIB STD-T66

1.3. Test Facility

1.3.1 Address of the test laboratory

Shenzhen HTT Technology Co.,Ltd.

1F, B Building, Huafeng International Robotics Industrial Park, Gushu, Xixiang Street, Bao'an District, Shenzhen

1.4. Measurement Uncertainty

For the test methods, according to the present document, the measurement uncertainty figures shall be



calculated in accordance with TR100028-1 [2] and shall correspond to an expansion factor (coverage factor) $K=1.96$ or $K=2$ (which provide confidence levels of respectively 95% and 95.5% in the case where the distributions characterizing the actual measurement uncertainties are normal).

Parameter	Uncertainty
Frequency error / 99%&90% bandwidth	$\pm 1.62 \cdot 10^{-6}$
Total RF power, conducted	$\pm 0.8\text{dB}$
Spurious emissions, conducted	$\pm 0.8\text{dB}$
DC and low frequency voltages	$\pm 0.05\%$
Humidity	$\pm 5\%$
Temperature	$\pm 1^{\circ}\text{C}$



2. GENERAL INFORMATION

2.1. Environmental conditions

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

Voltage	Normal Voltage	DC 3.00V
	High Voltage	DC 3.30V
	Low Voltage	DC 2.70V
Other	Normal Temperature	25°C
	Relative Humidity	55 %
	Air Pressure	989 hPa

2.2. General Description of EUT

Product Name:	LED Smart Stable Light Scene Switch
Test model:	DTP-S2-F6-BY
Date of sample receipt:	Nov. 10, 2025
Date of Test:	Nov. 10, 2025 ~ Dec. 03, 2025
Bluetooth	
Operation frequency:	2402MHz-2480MHz
Modulation:	GFSK
No. of Channel:	40
Channel separation:	2MHz
Rated power:	1M: 0.20mW 2M: 0.18mW
Antenna type:	PCB antenna
Antenna Gain:	1.50 dBi
Firmware Version	S2L6-1.1.6
Hardware Version	DTS-S2-F6-BY-V1.1

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



2.3. Description of Test Modes

The EUT has been tested under typical operating condition. The Applicant provides communication tools software to control the EUT for staying in continuous transmitting and receiving mode for testing.

Operation Frequency List:

Channel	Frequency (MHz)
0	2402
1	2404
⋮	⋮
18	2438
19	2440
20	2442
⋮	⋮
38	2478
39	2480

Note: Test performed at the lowest/middle/highest frequencies selected in the list above for EUT supported while working on specified mode.

2.4. Measurement Instruments List

RF Conducted Test:							
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Institution	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	Oscilloscope	TEK	TDS3012B	HTT-004	LISAI	April 22, 2025	April 21, 2026
2	MXA signal analyzer	Agilent	N9020A	HTT-E024	LISAI	April 22, 2025	April 21, 2026
3	EMI Test Receiver	R&S	ESCI 7	HTT-E022	LISAI	April 22, 2025	April 21, 2026
4	DC Power	Agilent	E3632A	HTT-E023	LISAI	April 22, 2025	April 21, 2026
5	Analog signal generator	Agilent	N5181A	HTT-E025	LISAI	April 22, 2025	April 21, 2026
6	Vector signal generator	Agilent	N5182A	HTT-E026	LISAI	April 22, 2025	April 21, 2026
7	USB RF Power Sensor	Keysight	U2021XA	HTT-E027	LISAI	April 22, 2025	April 21, 2026
8	Spectrum Analyzer	KEYSIGHT	FSP	HTT-E037	LISAI	April 22, 2025	April 21, 2026
9	RF Switch Box	Shongyi	RFSW3003328	HTT-E047	LISAI	April 22, 2025	April 21, 2026
10	Programmable Constant Temp & Humi Test Chamber	SERTEP	STP-HWS225 B	HTT-092	LISAI	April 22, 2025	April 21, 2026
11	Temperature and humidity meter	Anbiao	TH10R	HTT-074	LISAI	April 22, 2025	April 21, 2026

Cal. Institution: LiSai-Guangzhou LiSai Calibration and Testing Co.,LTD.

Calibration by the calibration agencies listed in the table correspond to paragraph 4 (ii) (c) of Article 24-2 in the Radio Law".

☐ (a) Calibration conducted by the National Institute of Information and Communications 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.

2.5. Table for Parameters of Test Software Setting

During testing, Channel & Power Controlling Software provided by the customer was used to control the



operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product.

Power Parameters:

Test Software Version	BQB Tool - B85 support		
Frequency	2402MHz	2440MHz	2480MHz
1M	Default	Default	Default
2M	Default	Default	Default

2.6. Description of Test Modes

Tested mode, channel, and data rate information				
Mode	Preliminary Test Data Rate (Mbps)	Final Test Data Rate (Mbps)	Channel	Frequency (MHz)
Bluetooth	1/2	1/2	CH0	2402
	1/2	1/2	CH19	2440
	1/2	1/2	CH39	2480
Note: According exploratory test, EUT will have maximum output power in those data rate, so those data rate were used for all test.				

2.7. Test Voltage

POWER SUPPLY VOLTAGE FLUCTUATION TEST

Voltage Fluctuation Test	Normal Voltage	High Voltage +10% of Normal Voltage	Low Voltage -10% of Normal Voltage
Input To EUT	DC 3.00V	DC 3.30V	DC 2.70V
Output To RF Module	DC 3.30V	DC 3.3495V	DC 3.234V
Voltage Variation (%)	--	1.5%	-2%

Note: During the input supply voltage to the EUT from the external power source is varied by $\pm 10\%$, the fluctuation of input voltage to the circuit of RF unit of test equipment is exceed $\pm 1\%$. So, all measurement has been conducted by normal and limit voltage.

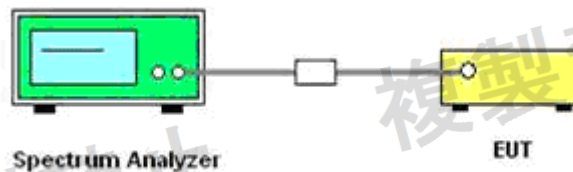
3. Test conditions and Results

3.1. Frequency Error

LIMIT

Tolerance of frequency shall be $\pm 50 \times 10^{-6}$.

TEST CONFIGURATION



TEST PROCEDURE

The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram as TEST CONFIGURATION shows.

EUT Condition: non-modulation

Spectrum Condition:

Frequency: test frequency

Span: 1 MHz

RBW: 10 KHz

VBW: 10 KHz

Sweep time: Auto

Detector mode: Positive peak

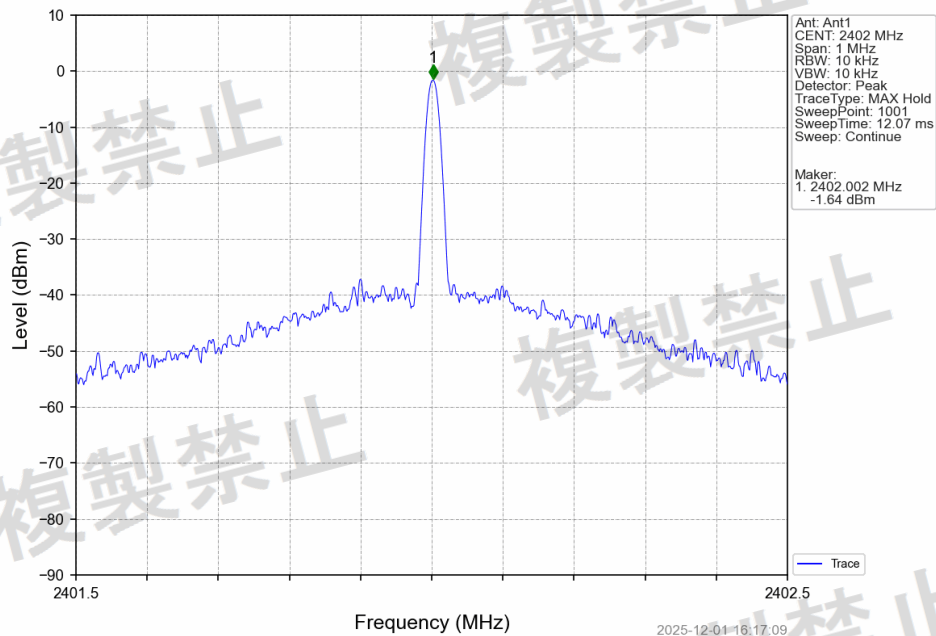
Indication mode: max hold

TEST RESULTS

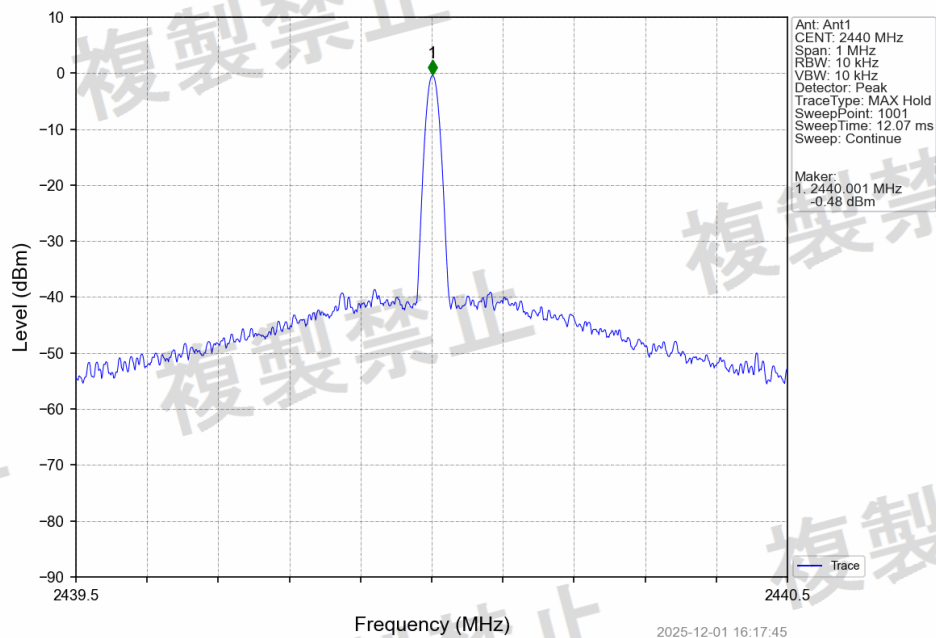
Ant1							
ENV	Mode	TX Type	Frequency (MHz)	Measured Frequency (MHz)	Tolerance (ppm)		Verdict
					Result	Limit	
NTNV	Carrier Wave	SISO	2402	2402.002	0.83	-50 to 50	Pass
			2440	2440.001	0.41	-50 to 50	Pass
			2480	2480.001	0.40	-50 to 50	Pass
NTLV	Carrier Wave	SISO	2402	2402.001	0.42	-50 to 50	Pass
			2440	2440.001	0.41	-50 to 50	Pass
			2480	2480.001	0.40	-50 to 50	Pass
NTHV	Carrier Wave	SISO	2402	2402.001	0.42	-50 to 50	Pass
			2440	2440.001	0.41	-50 to 50	Pass
			2480	2480.001	0.40	-50 to 50	Pass



Frequency Error NTVN Carrier Wave 2402MHz Ant1 NTVN

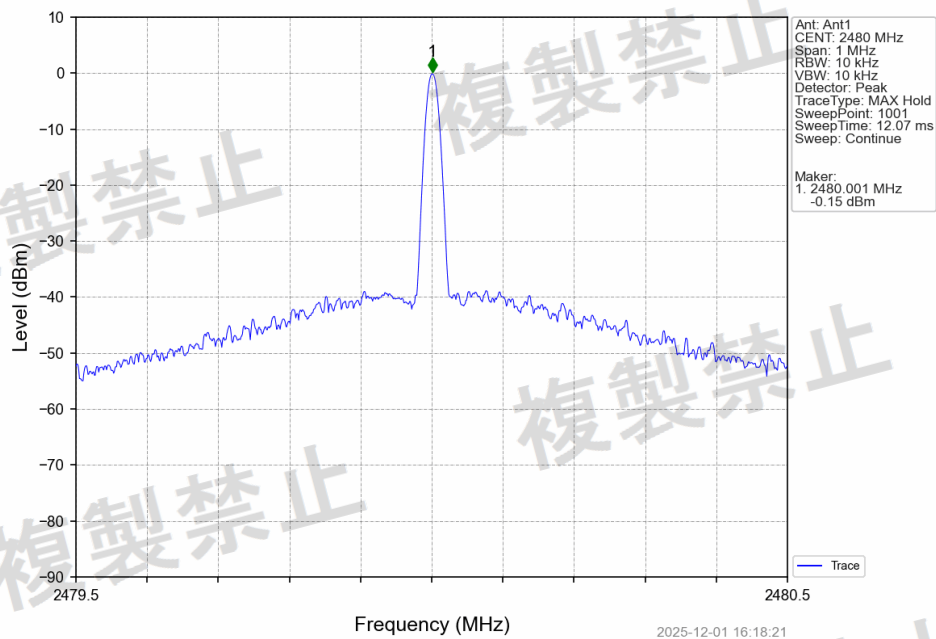


Frequency Error NTVN Carrier Wave 2440MHz Ant1 NTVN

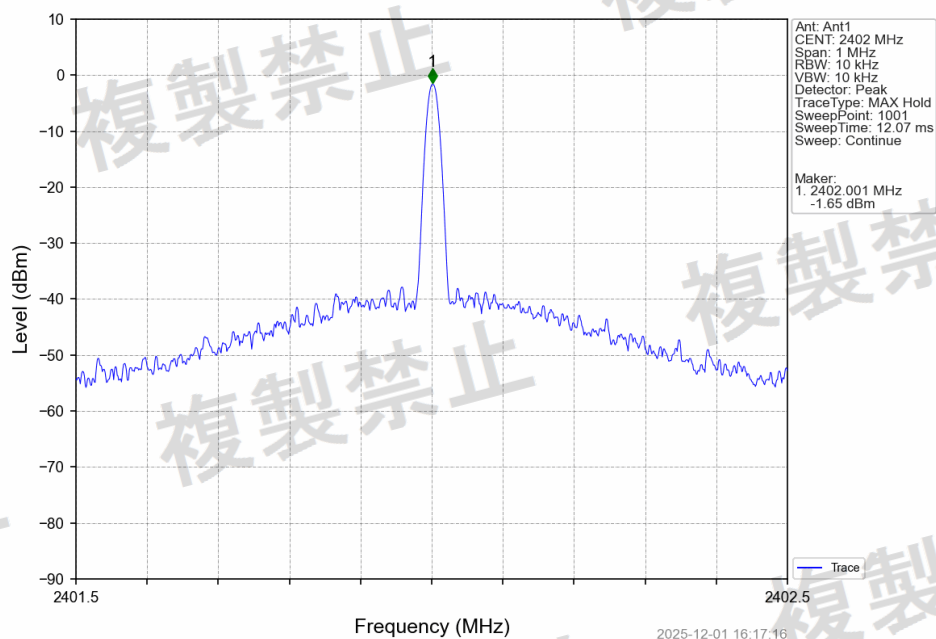




Frequency Error NTVN Carrier Wave 2480MHz Ant1 NTVN

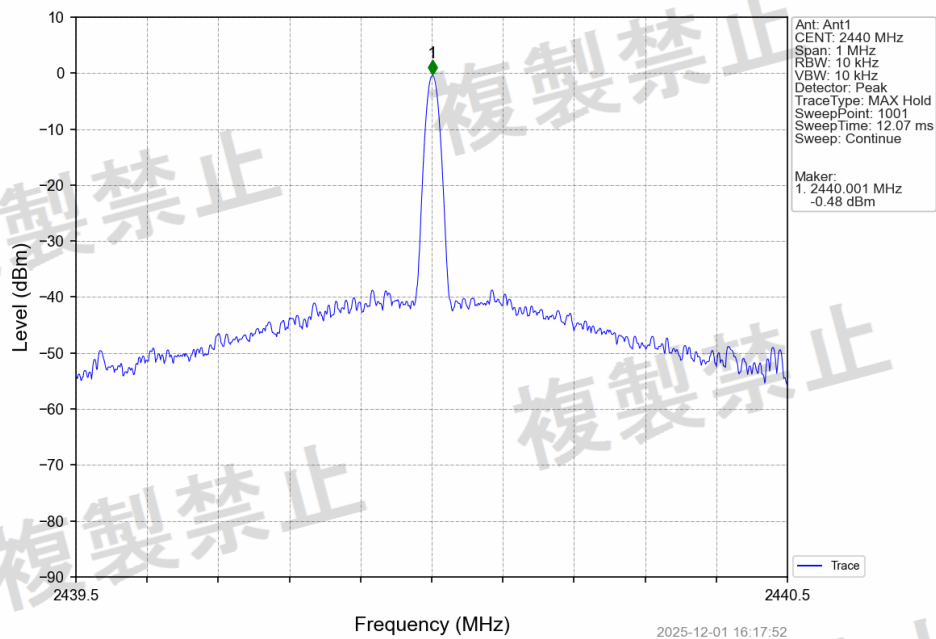


Frequency Error NTLV Carrier Wave 2402MHz Ant1 NTLV

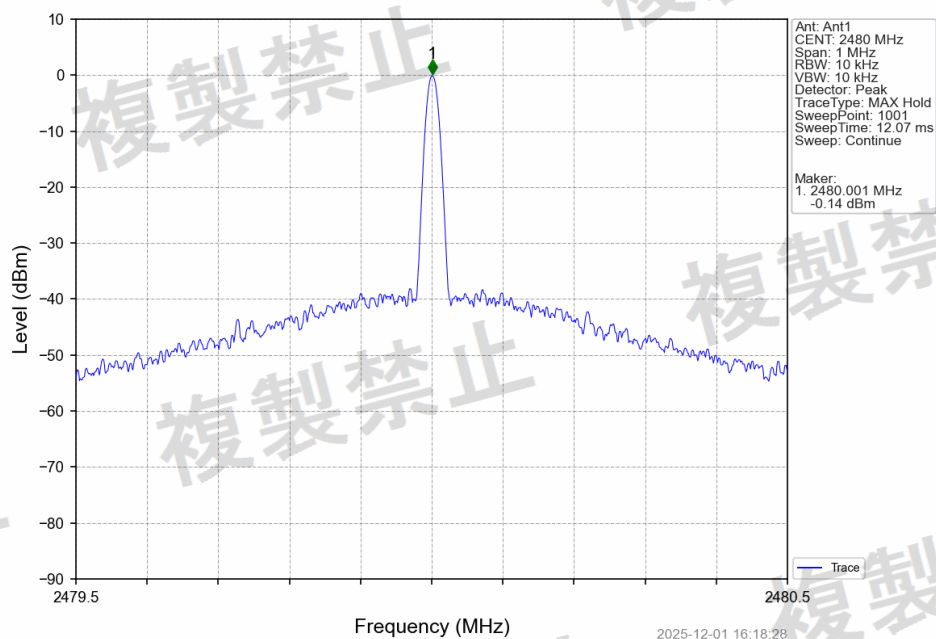




Frequency Error_NTLV Carrier Wave_2440MHz_Ant1_NTLV

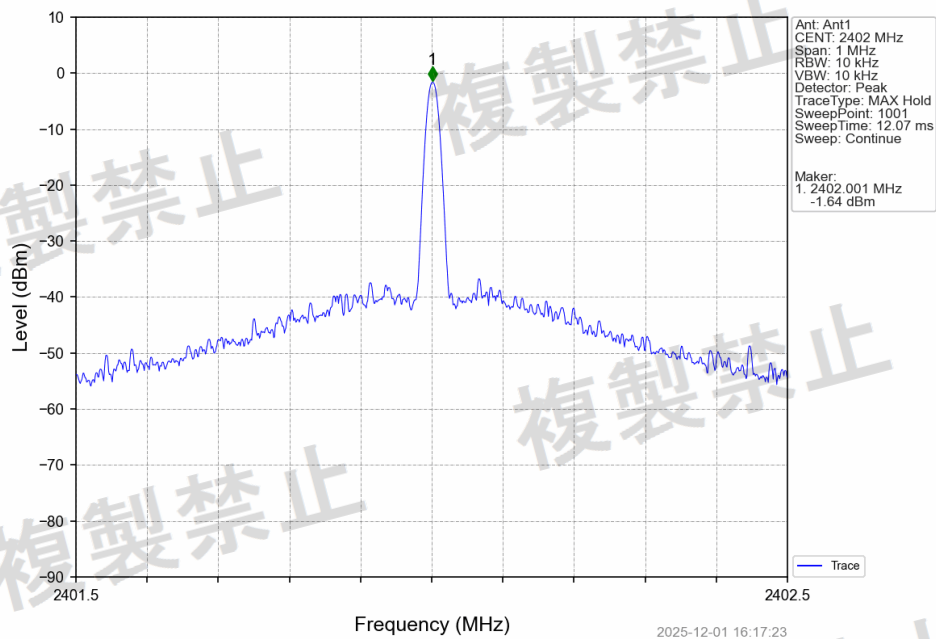


Frequency Error_NTLV Carrier Wave_2480MHz_Ant1_NTLV

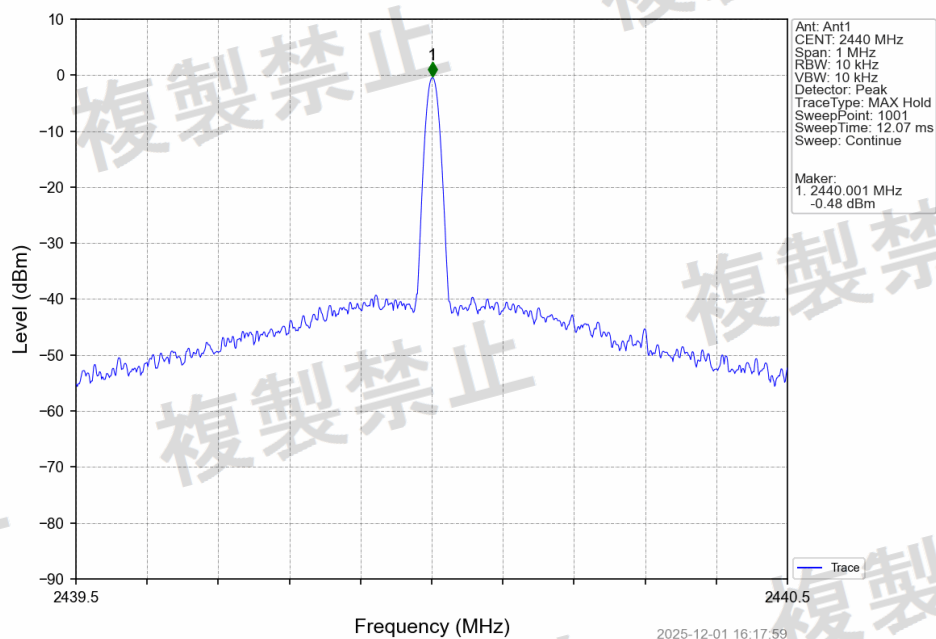


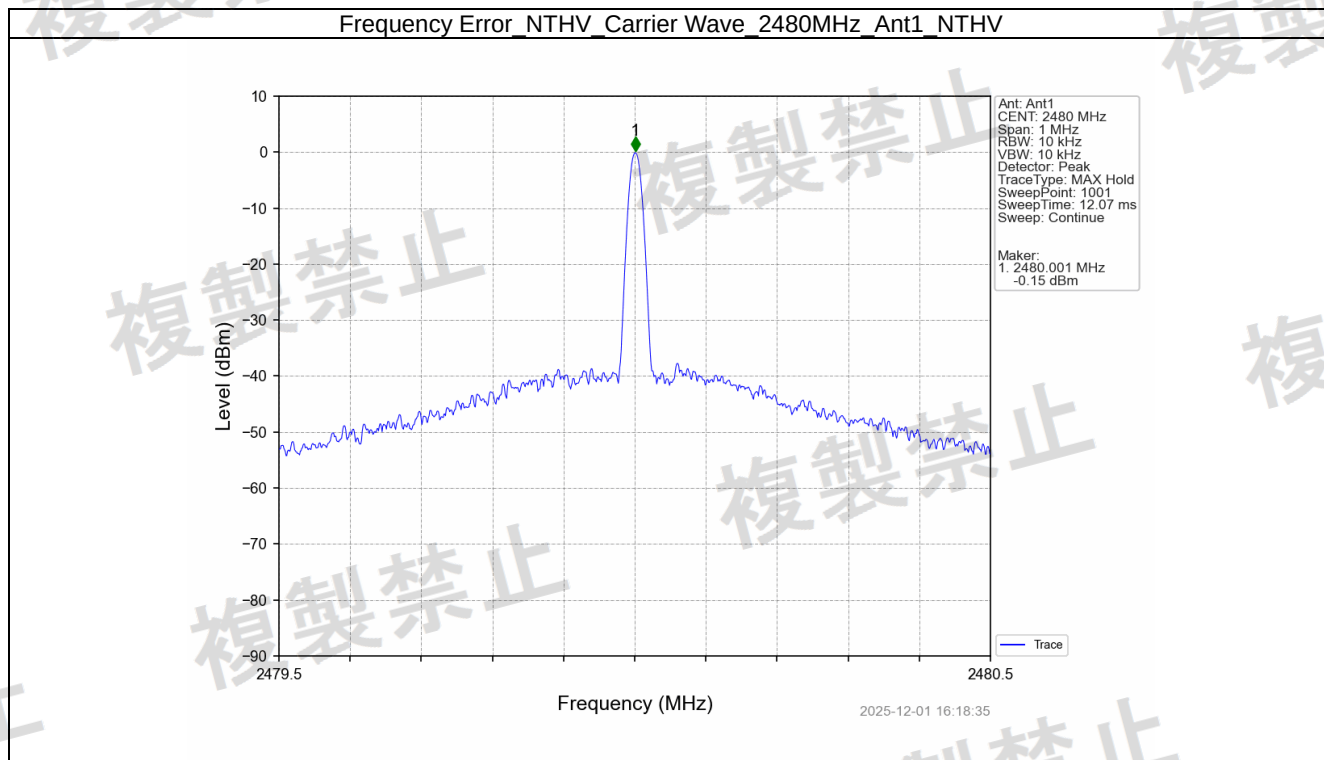


Frequency Error NTHV Carrier Wave 2402MHz Ant1 NTHV



Frequency Error NTHV Carrier Wave 2440MHz Ant1 NTHV





3.2. Antenna Output Power and Output Power Tolerance

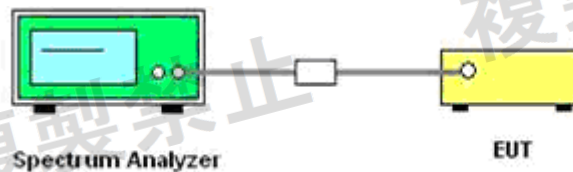
LIMIT

Type	Limit
DTS	10mW
OFDM OBW<26MHz, DS	10mW/MHz
OFDM OBW 26-38MHz	5mW/MHz
Tolerance	+20%

Upper Limit of EIRP for Modulation Systems

Modulation system	Frequency band used	Antenna power (max.)	EIRP (max.)	
			Omnidirectional case	Directional case
DS, OFDM	2,400 - 2,483.5 MHz	10 mW/MHz	12.14 dBm/MHz	22.14 dBm/MHz
FH, DS-FH	2,400 - 2,483.5 MHz	3 mW/MHz	6.91 dBm/MHz	16.91 dBm/MHz
FH-OFDM	Excluding 2,427 - 2,470.75 MHz	10 mW/MHz	12.14 dBm/MHz	22.14 dBm/MHz
Other than the above	2,400 - 2,483.5 MHz	10 mW	12.14 dBm	22.14 dBm

TEST CONFIGURATION



TEST PROCEDURE

Step 1:

Connect the UUT to the spectrum analyzer as TEST CONFIGURATION and use the following settings:

- Centre Frequency: The centre frequency of the channel under test.
- RBW: 1 MHz
- VBW: 1 MHz
- Span: Wide enough to cover the complete power envelope of the signal of the UUT.
- Detector: Peak
- Trace Mode: Max Hold

Step 2:

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

Step 3:

Make the following changes to the settings of the spectrum analyzer:

- Centre Frequency: Equal to the frequency recorded in step 2.
- Span: 0 MHz
- RBW: 1 MHz
- VBW: 1 MHz
- Detector: RMS
- Trace Mode: Clear Write

**TEST RESULTS**

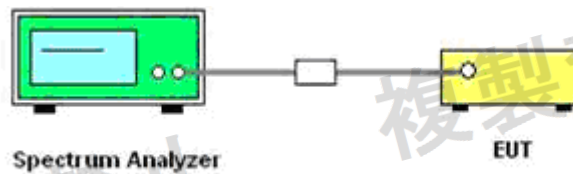
ENV	Mode	TX Type	Frequency (MHz)	ANT	Antenna Power (mW)		Nominal Power (mW)	Tolerance (%)		Verdict
					Measured	Limit		Measured	Limit	
NTNV	1M	SISO	2402	1	0.205	<=10.00	0.200	2.50	+ 20	Pass
			2440	1	0.153	<=10.00	0.200	-23.50	+ 20	Pass
			2480	1	0.133	<=10.00	0.200	-33.50	+ 20	Pass
	2M	SISO	2402	1	0.178	<=10.00	0.180	-1.11	+ 20	Pass
			2440	1	0.169	<=10.00	0.180	-6.11	+ 20	Pass
			2480	1	0.117	<=10.00	0.180	-35.00	+ 20	Pass
NTLV	1M	SISO	2402	1	0.202	<=10.00	0.200	1.00	+ 20	Pass
			2440	1	0.145	<=10.00	0.200	-27.50	+ 20	Pass
			2480	1	0.134	<=10.00	0.200	-33.00	+ 20	Pass
	2M	SISO	2402	1	0.174	<=10.00	0.180	-3.33	+ 20	Pass
			2440	1	0.151	<=10.00	0.180	-16.11	+ 20	Pass
			2480	1	0.116	<=10.00	0.180	-35.56	+ 20	Pass
NTHV	1M	SISO	2402	1	0.201	<=10.00	0.200	0.50	+ 20	Pass
			2440	1	0.148	<=10.00	0.200	-26.00	+ 20	Pass
			2480	1	0.135	<=10.00	0.200	-32.50	+ 20	Pass
	2M	SISO	2402	1	0.175	<=10.00	0.180	-2.78	+ 20	Pass
			2440	1	0.135	<=10.00	0.180	-25.00	+ 20	Pass
			2480	1	0.117	<=10.00	0.180	-35.00	+ 20	Pass

3.3. OCCUPIED BANDWIDTH AND SPREADING BANDWIDTH

LIMIT

- Occupied bandwidth: FH $\leq$ 83.5 MHz; OFDM $\leq$ 40 MHz; DS $\leq$ 26 MHz; Others $\leq$ 26 MHz
- Spread Bandwidth: $\geq$ 500 kHz (FH, DS)
- Spread factor >5 .

TEST CONFIGURATION



TEST PROCEDURE

Setting of SA is following as follow:

RBW: 300 kHz

VBW: 300 kHz

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. SA set to 99% of occupied bandwidth to measure occupied bandwidth.

EUT have transmitted the maximum modulation signal and fixed channelize. SA set to 90% of occupied bandwidth to measure spread bandwidth.

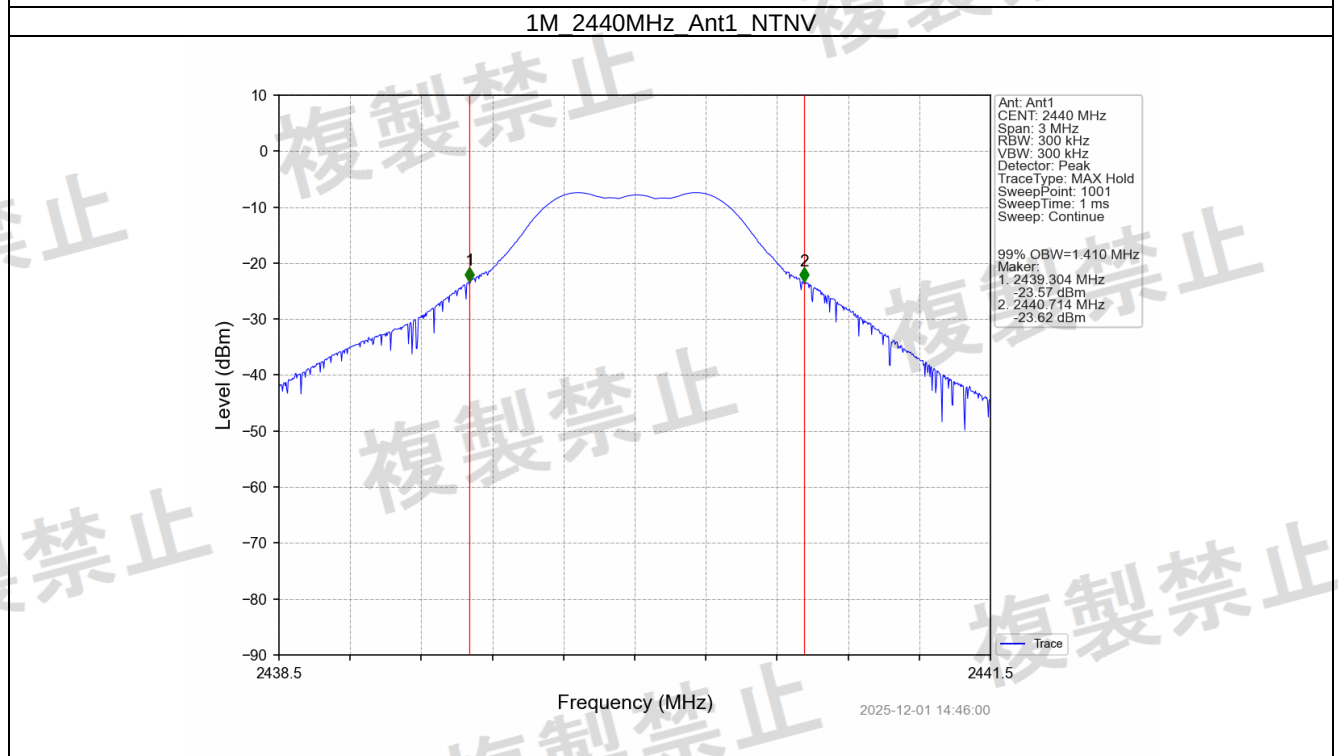
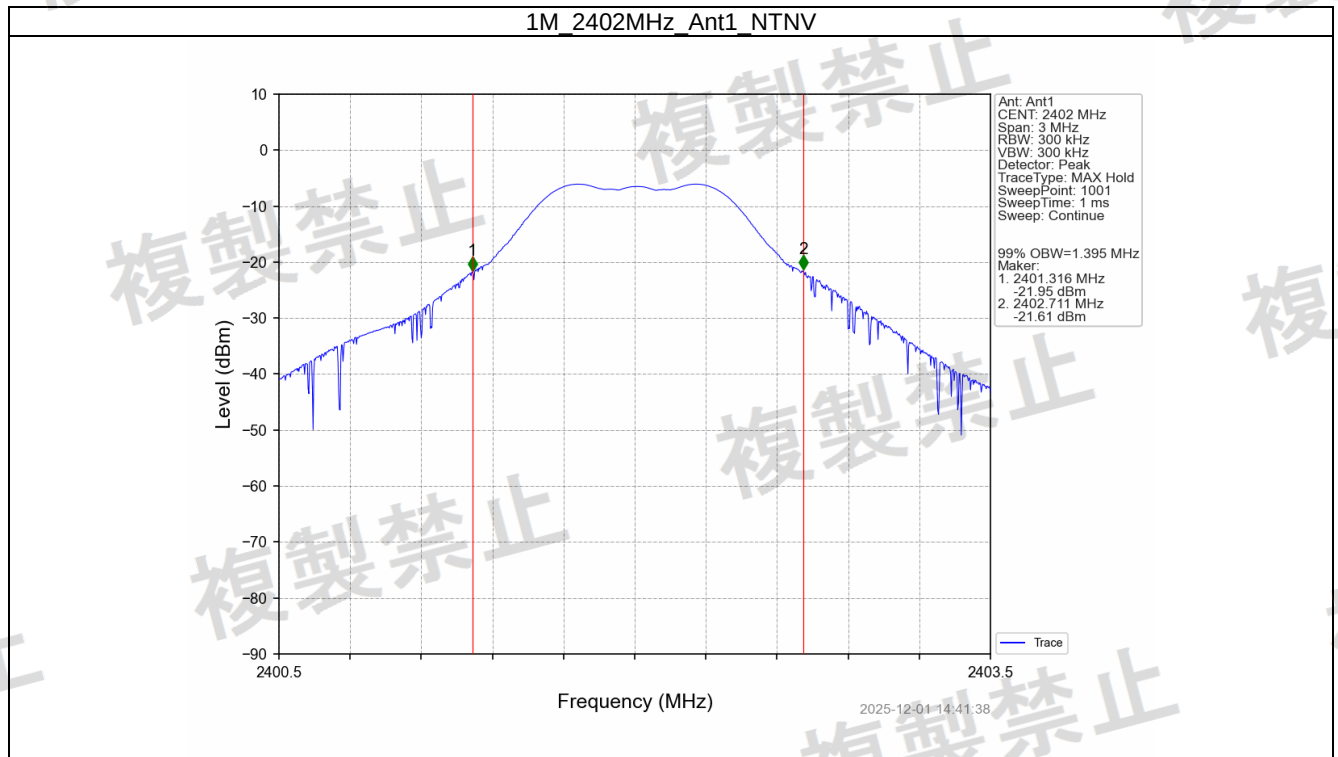
Spread Factor=Spread Bandwidth/modulation rate.

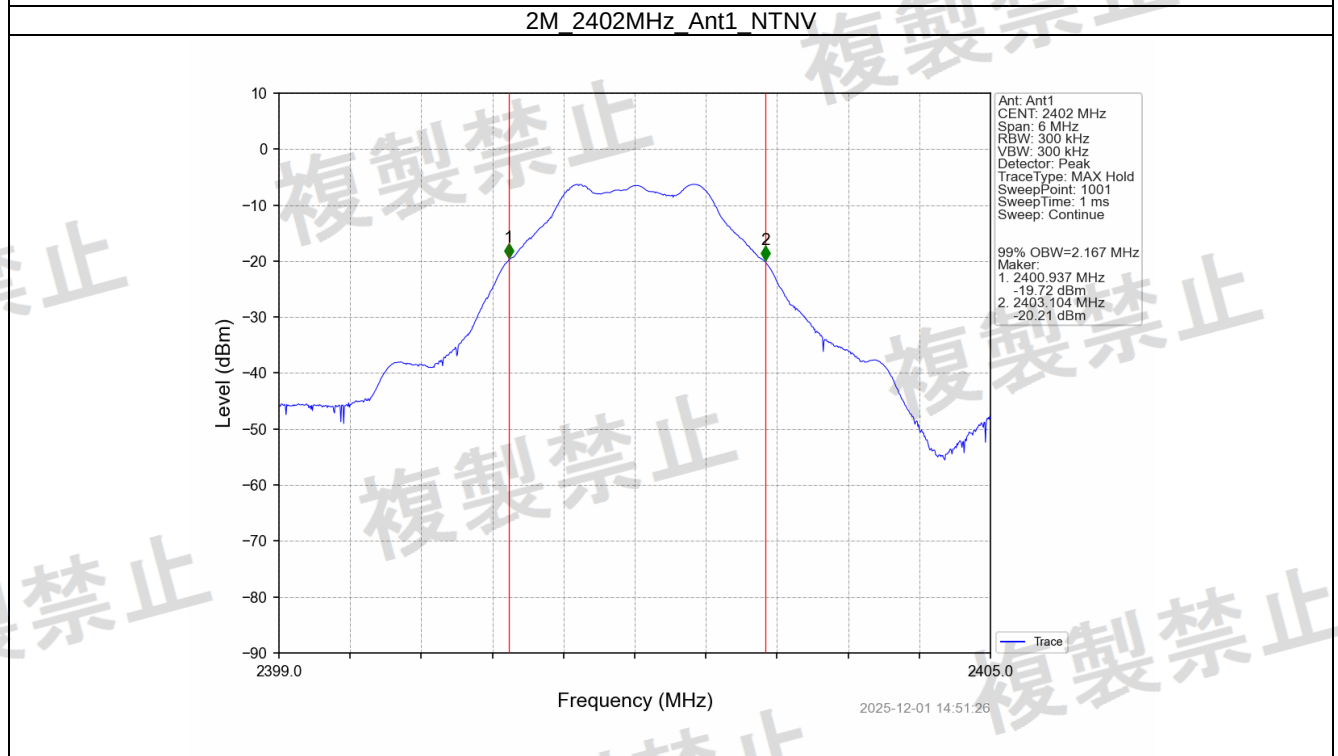
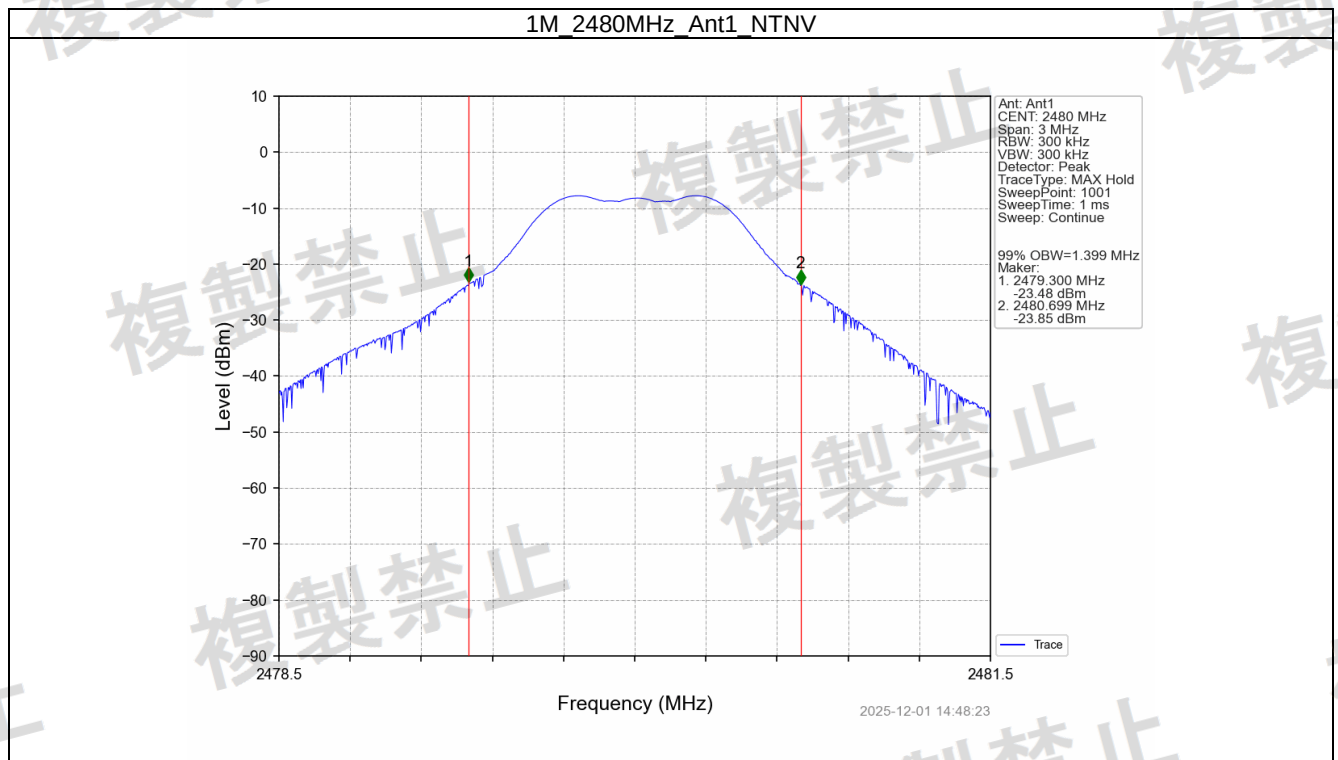
The modulation rate: MR=1.375Mbps for 802.11b

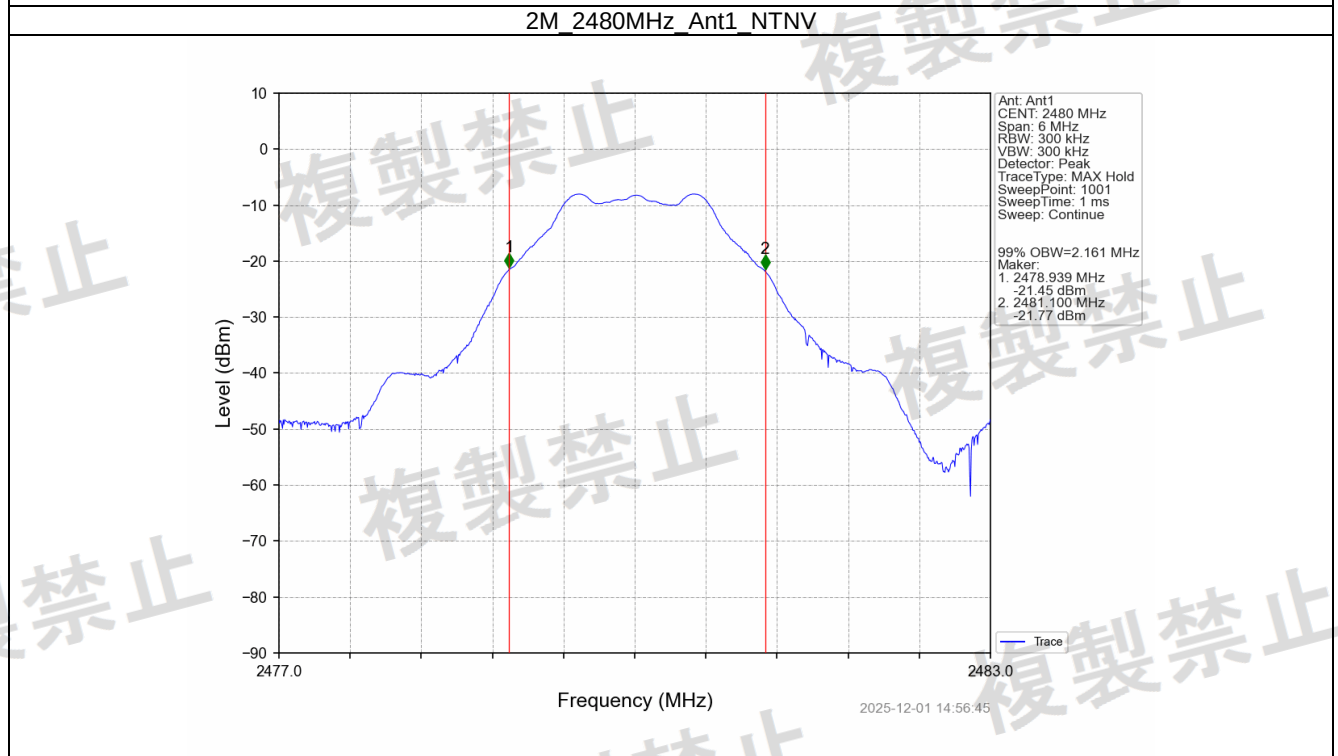
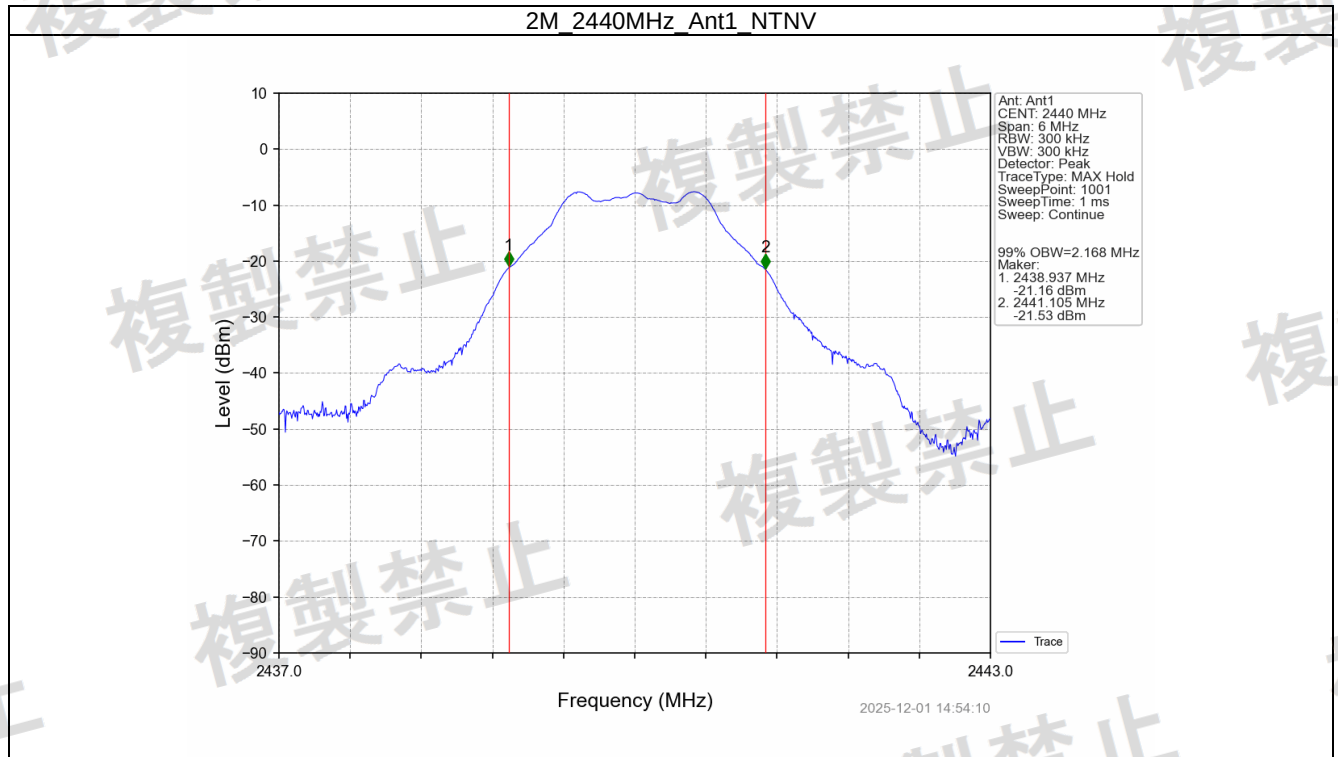
TEST RESULTS

99% Occupied Bandwidth

ENV	Mode	TX Type	Frequency (MHz)	99% Occupied Bandwidth (MHz)		Verdict
				ANT1	Limit	
NTNV	1M	SISO	2402	1.395	≤ 26	Pass
			2440	1.410	≤ 26	Pass
			2480	1.399	≤ 26	Pass
	2M	SISO	2402	2.167	≤ 26	Pass
			2440	2.168	≤ 26	Pass
			2480	2.161	≤ 26	Pass
NTLV	1M	SISO	2402	1.397	≤ 26	Pass
			2440	1.405	≤ 26	Pass
			2480	1.396	≤ 26	Pass
	2M	SISO	2402	2.165	≤ 26	Pass
			2440	2.167	≤ 26	Pass
			2480	2.161	≤ 26	Pass
NTHV	1M	SISO	2402	1.374	≤ 26	Pass
			2440	1.397	≤ 26	Pass
			2480	1.389	≤ 26	Pass
	2M	SISO	2402	2.164	≤ 26	Pass
			2440	2.167	≤ 26	Pass
			2480	2.161	≤ 26	Pass

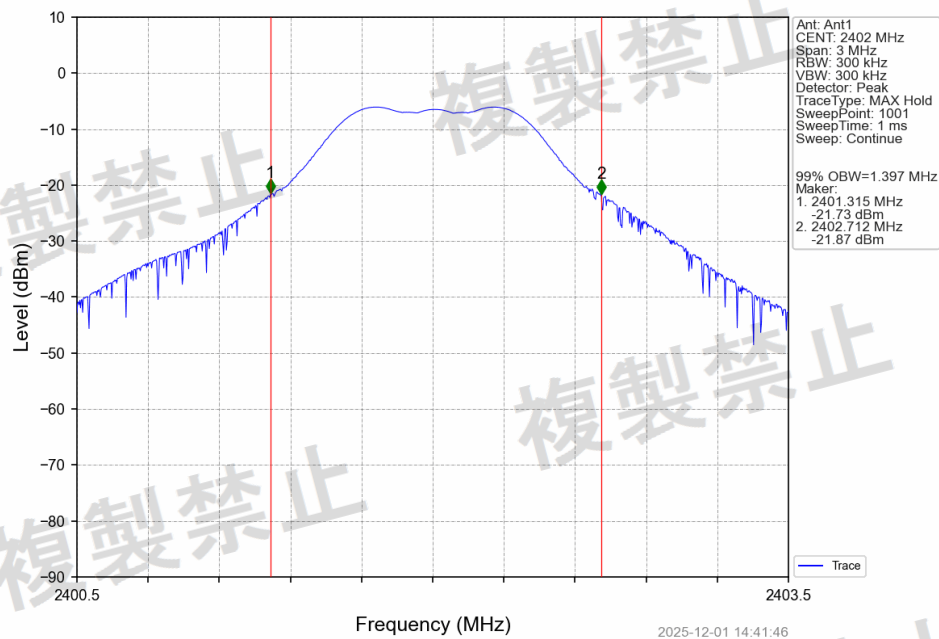




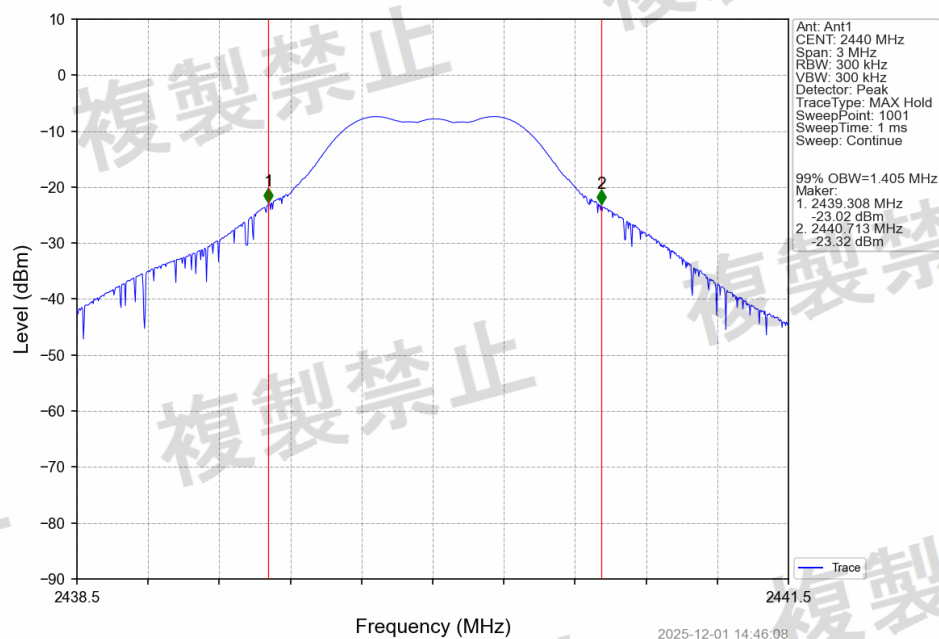




1M_2402MHz_Ant1_NTLV

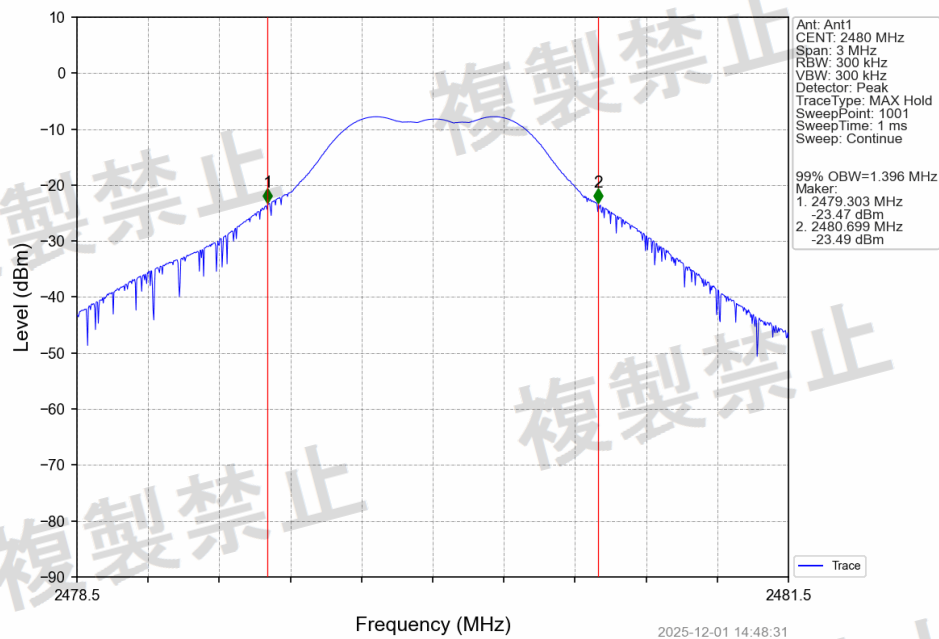


1M_2440MHz_Ant1_NTLV

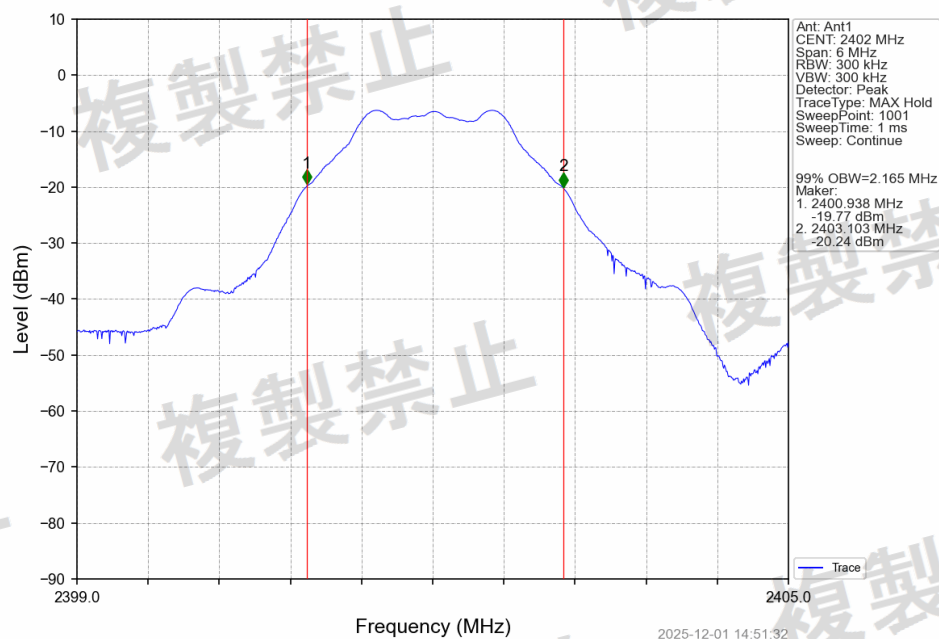




1M_2480MHz_Ant1_NTLV

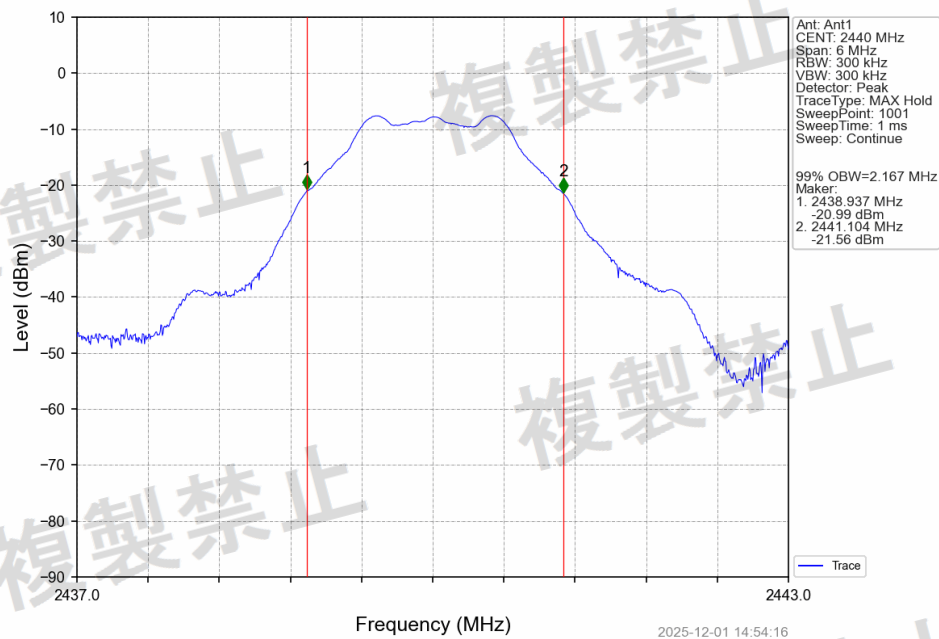


2M_2402MHz_Ant1_NTLV

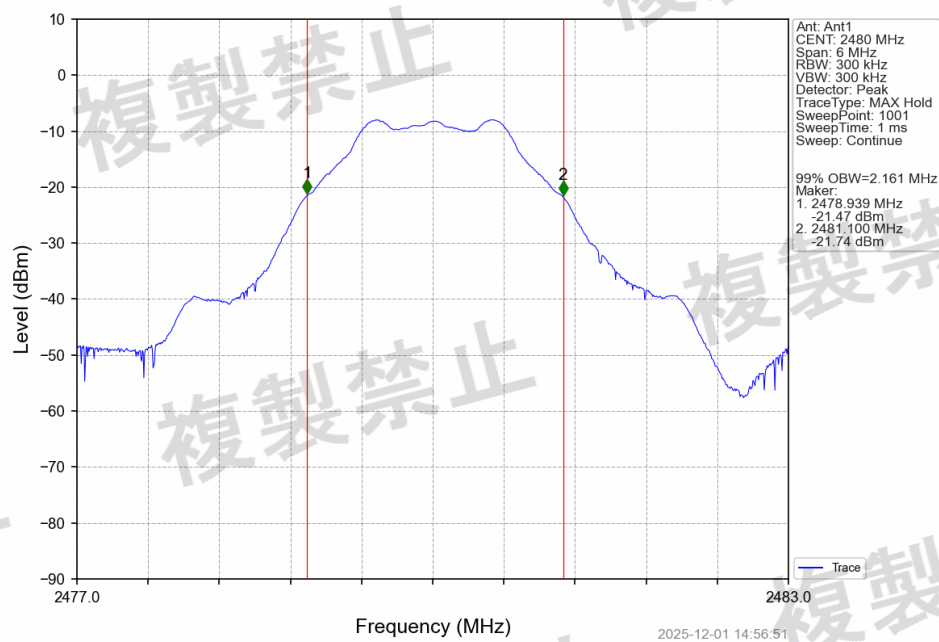




2M_2440MHz_Ant1_NTLV

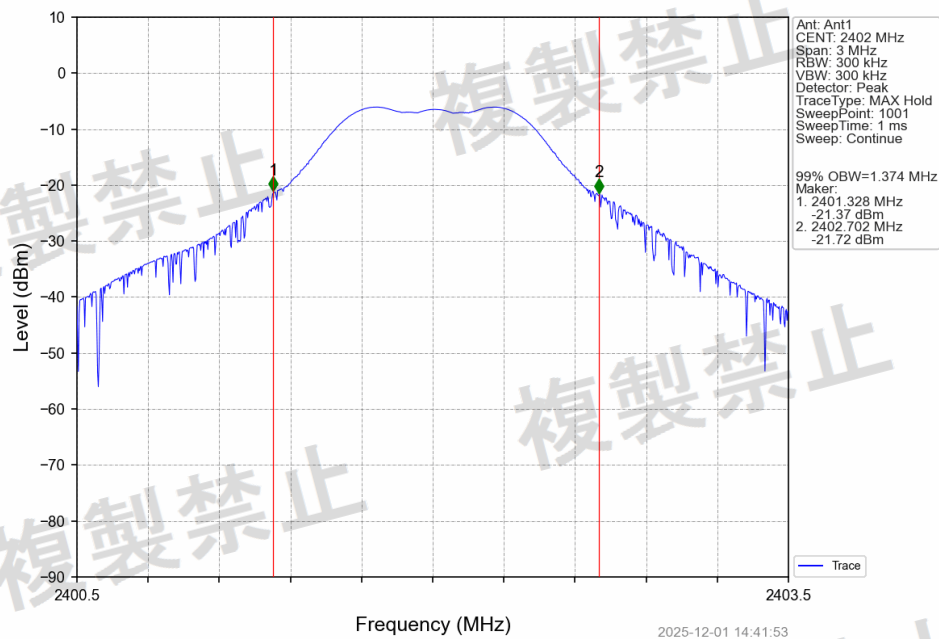


2M_2480MHz_Ant1_NTLV

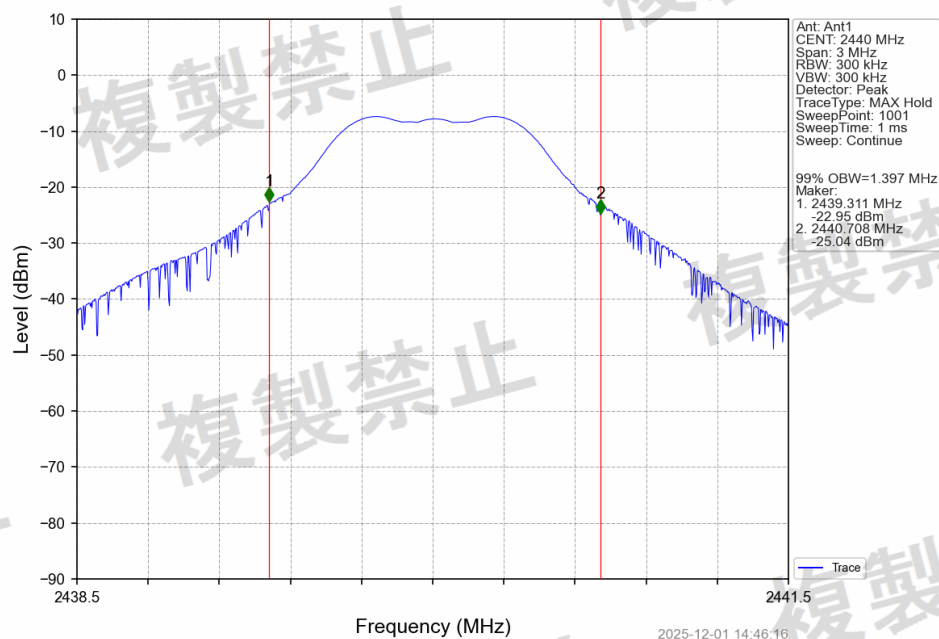


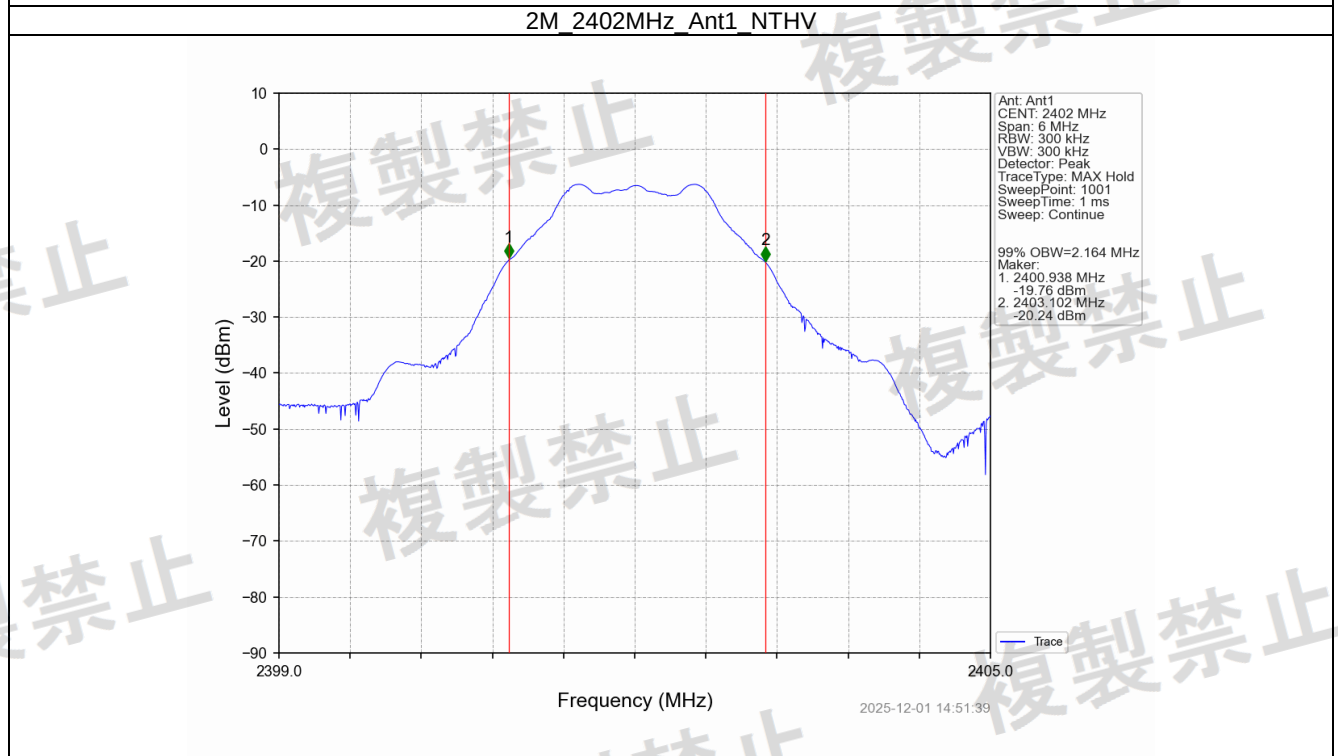
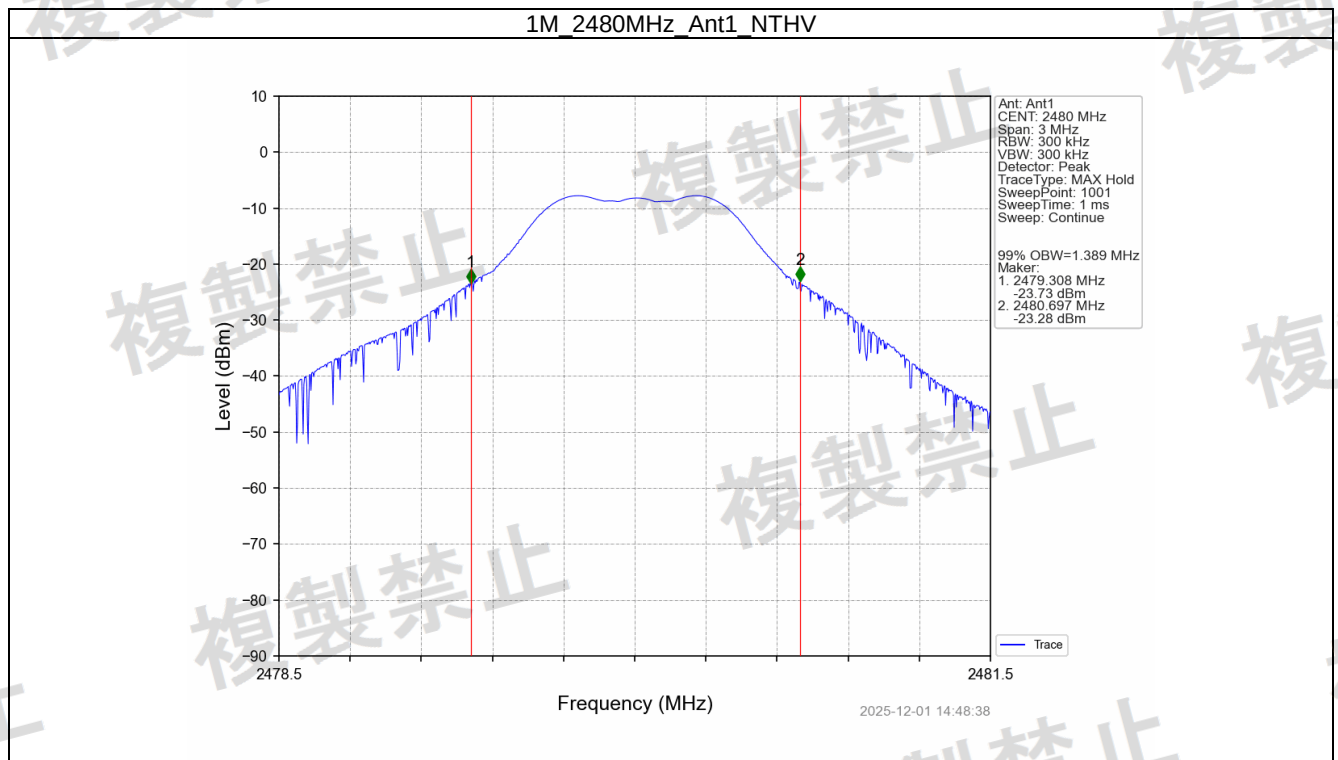


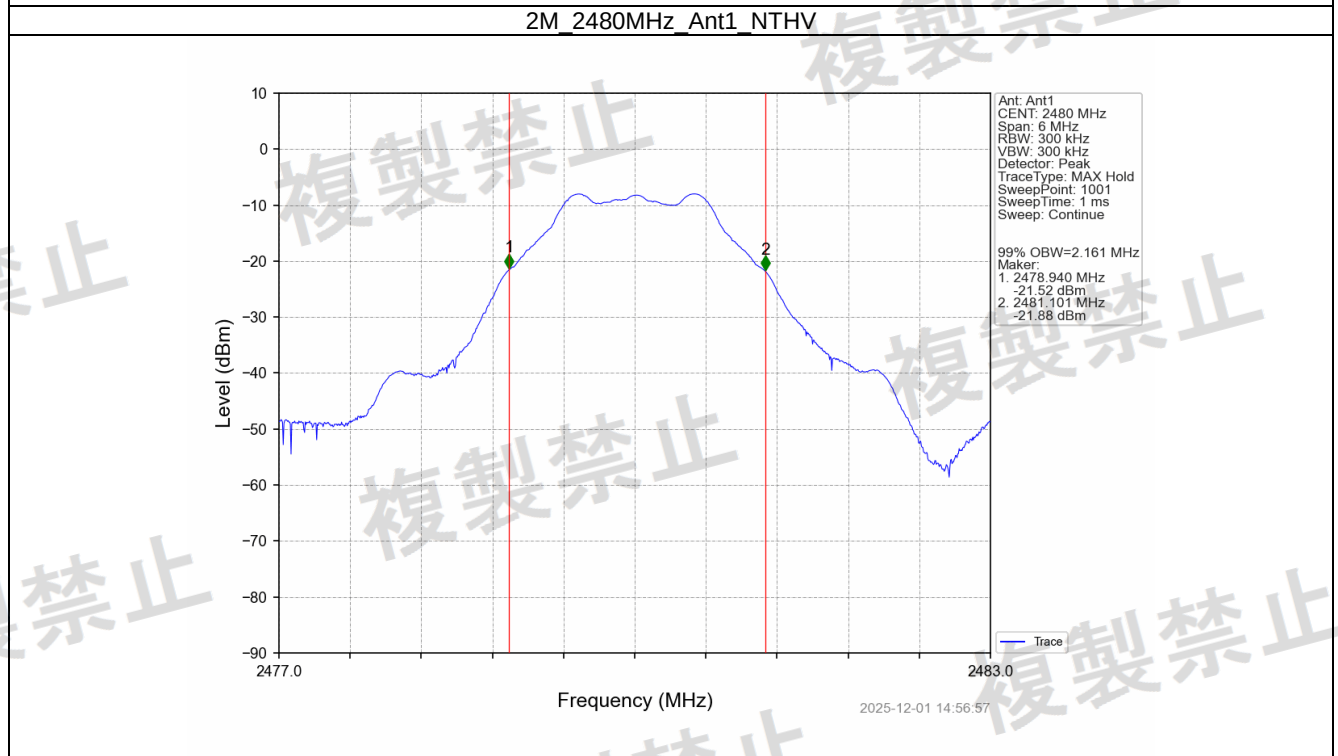
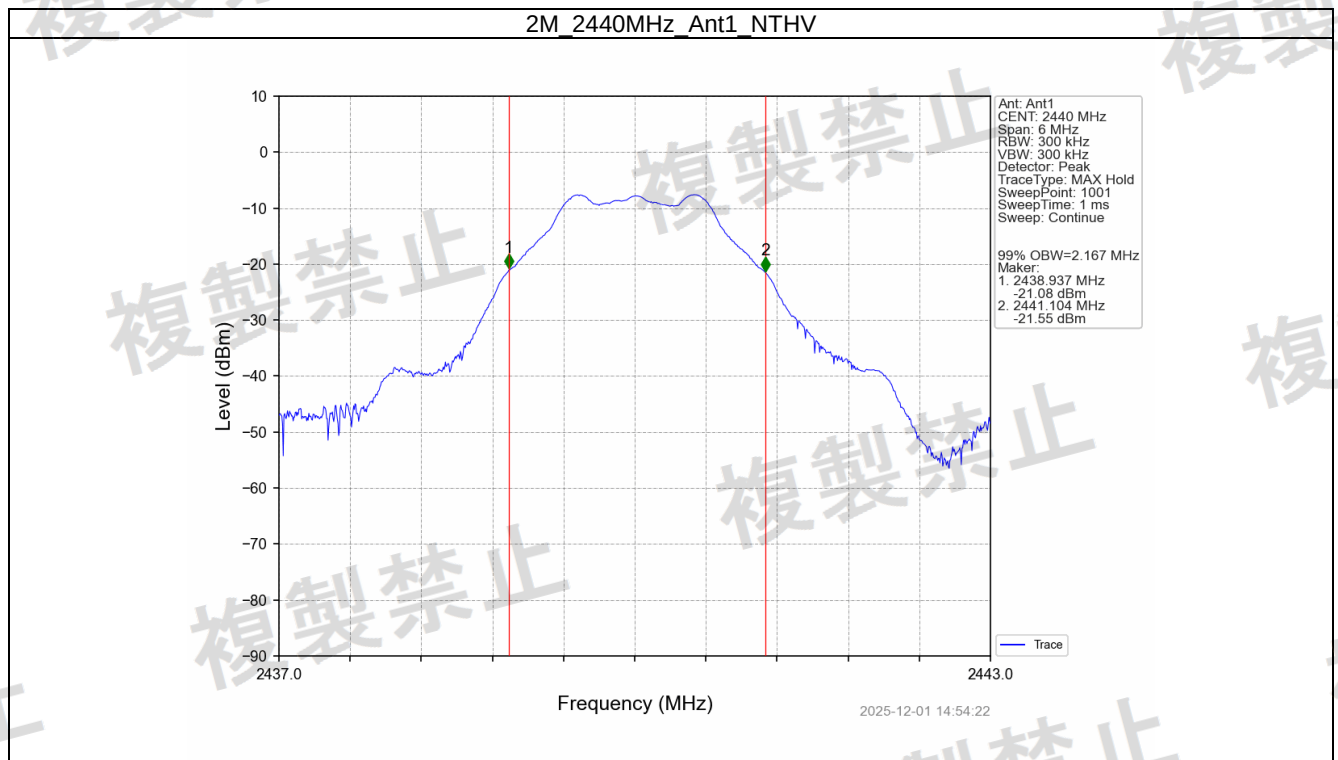
1M 2402MHz_Ant1_NTHV



1M 2440MHz_Ant1_NTHV



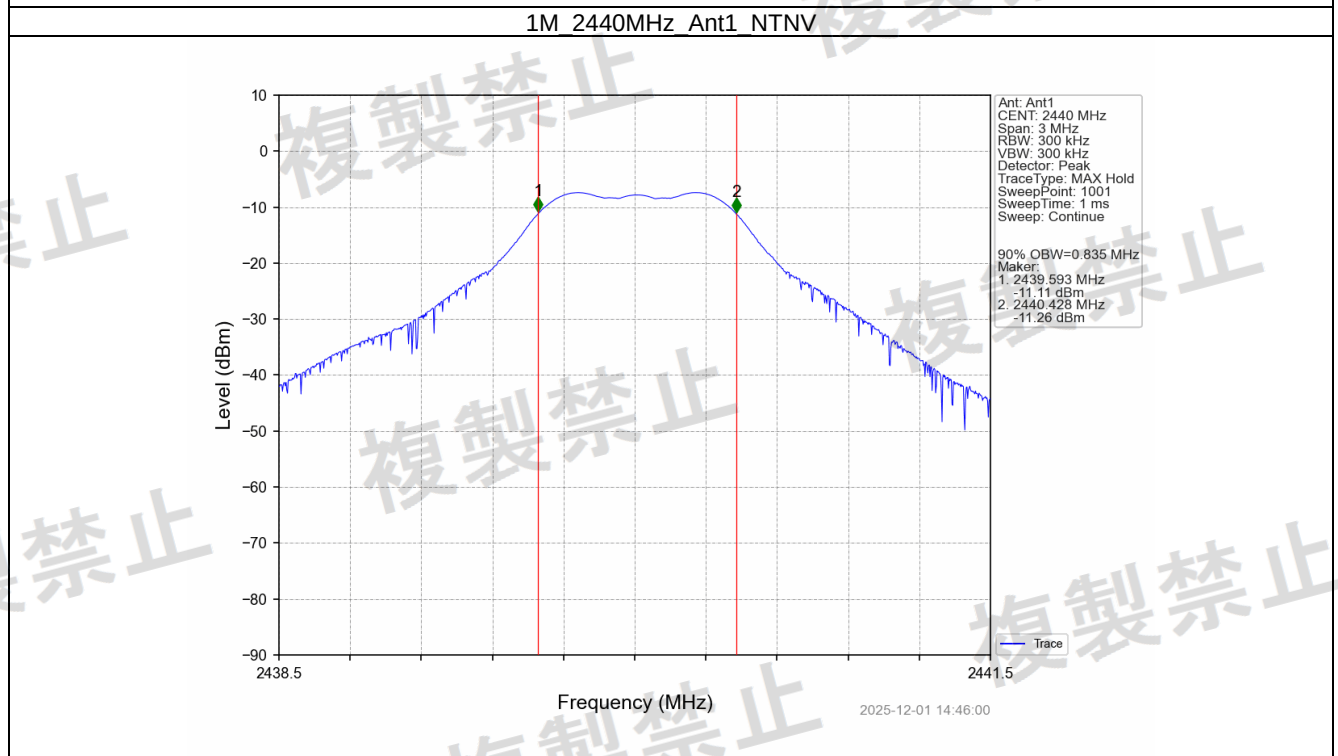
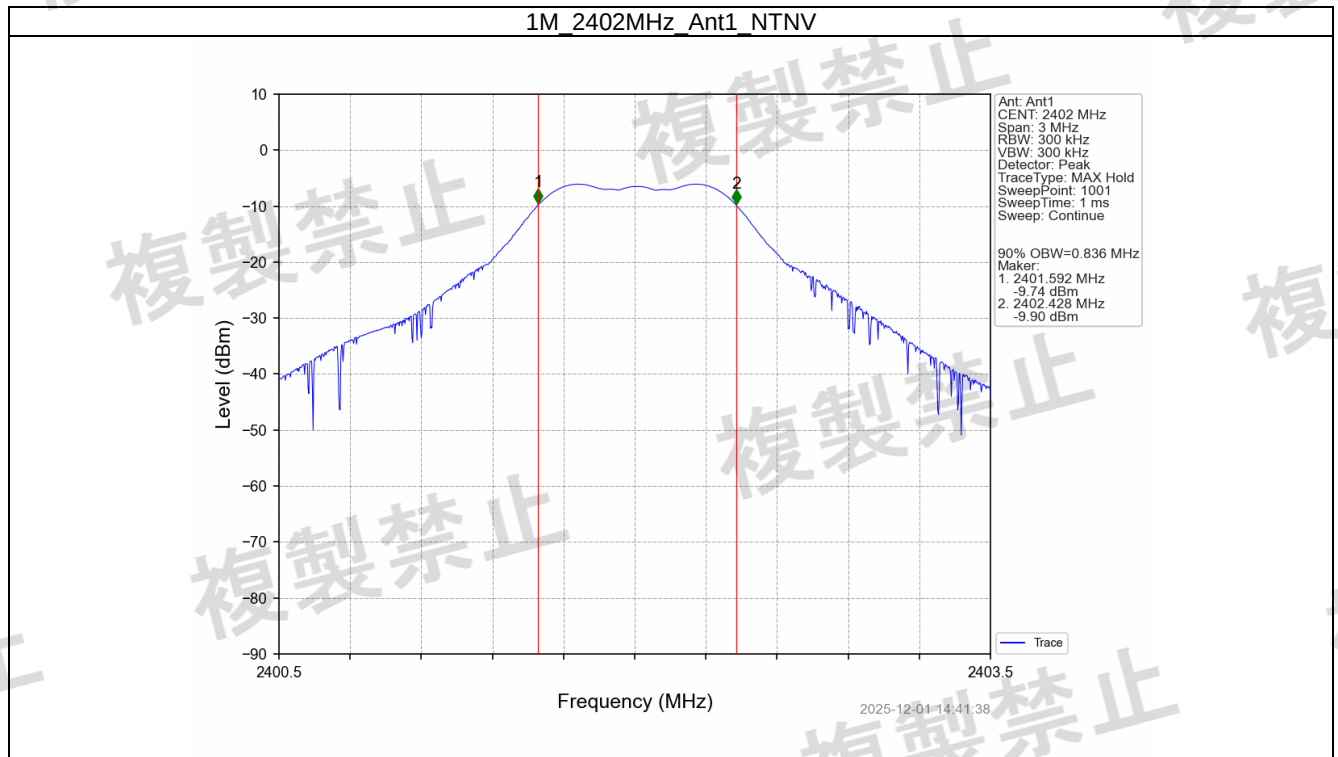


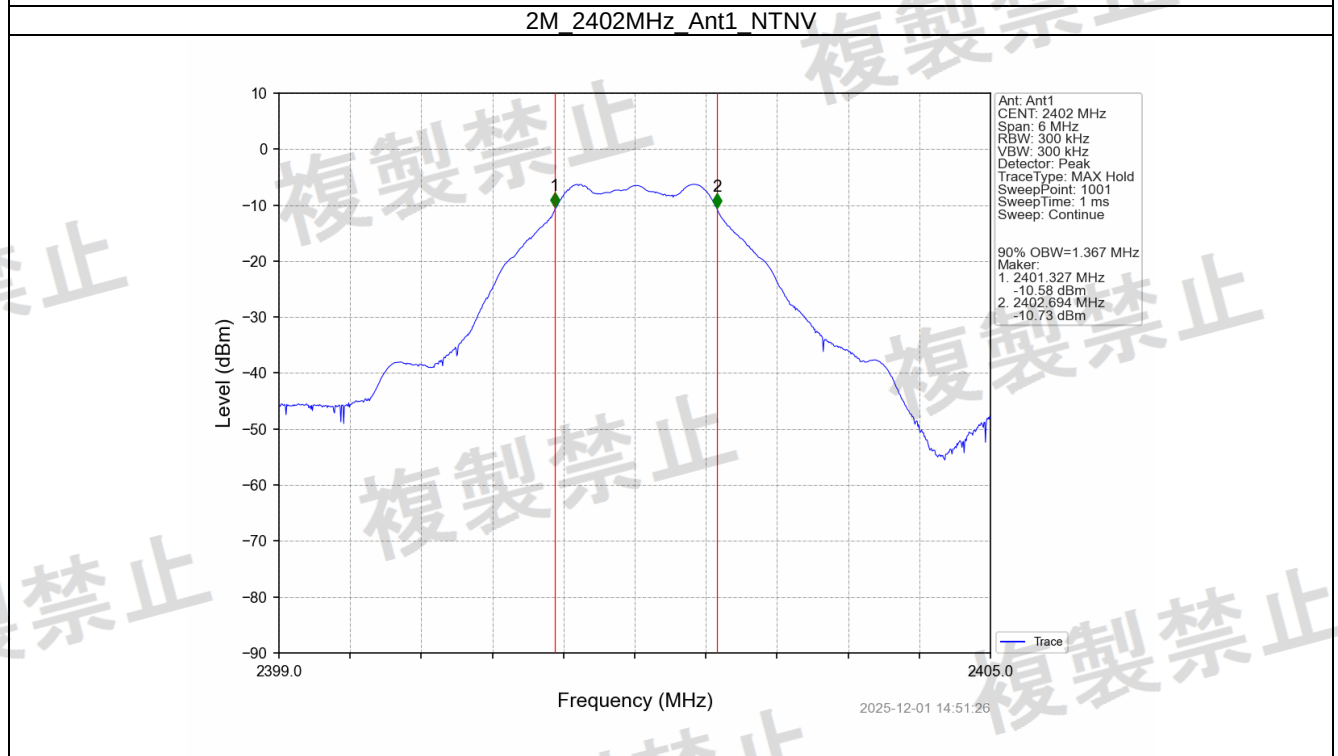
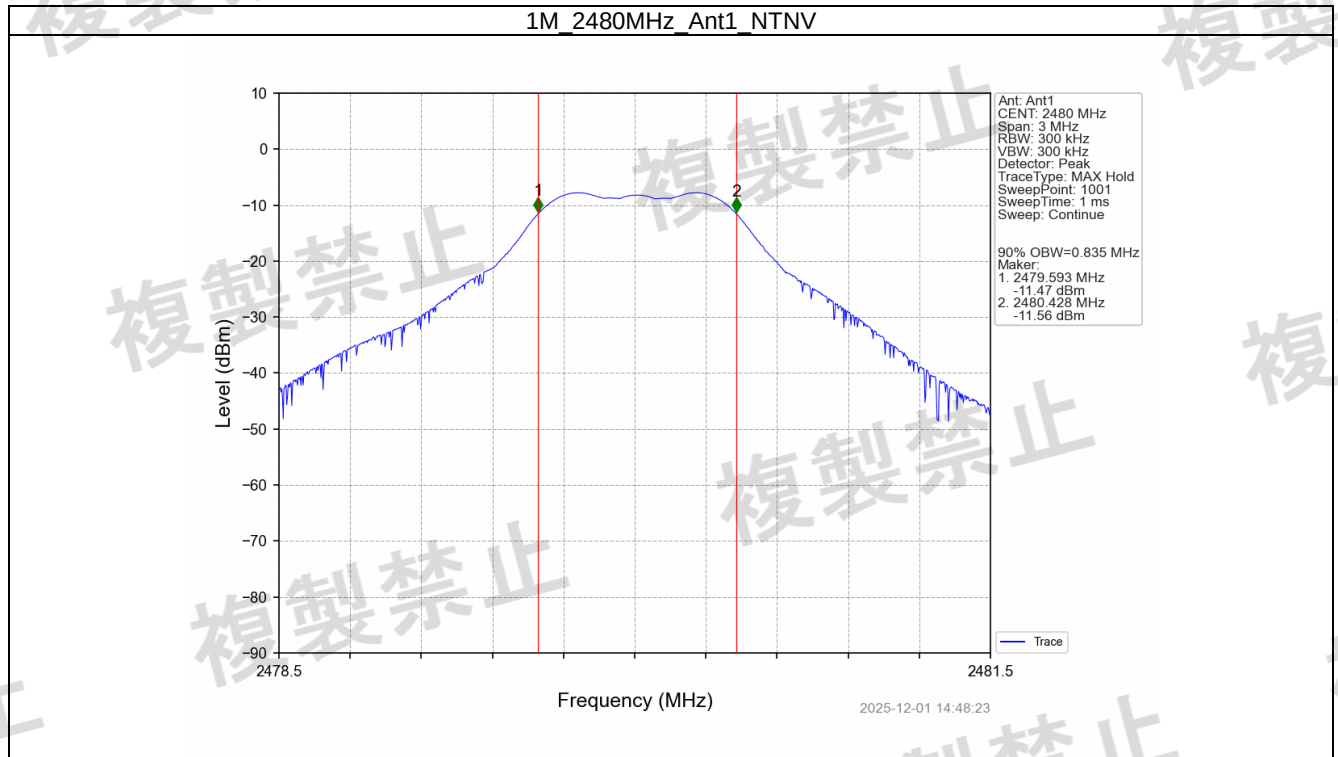


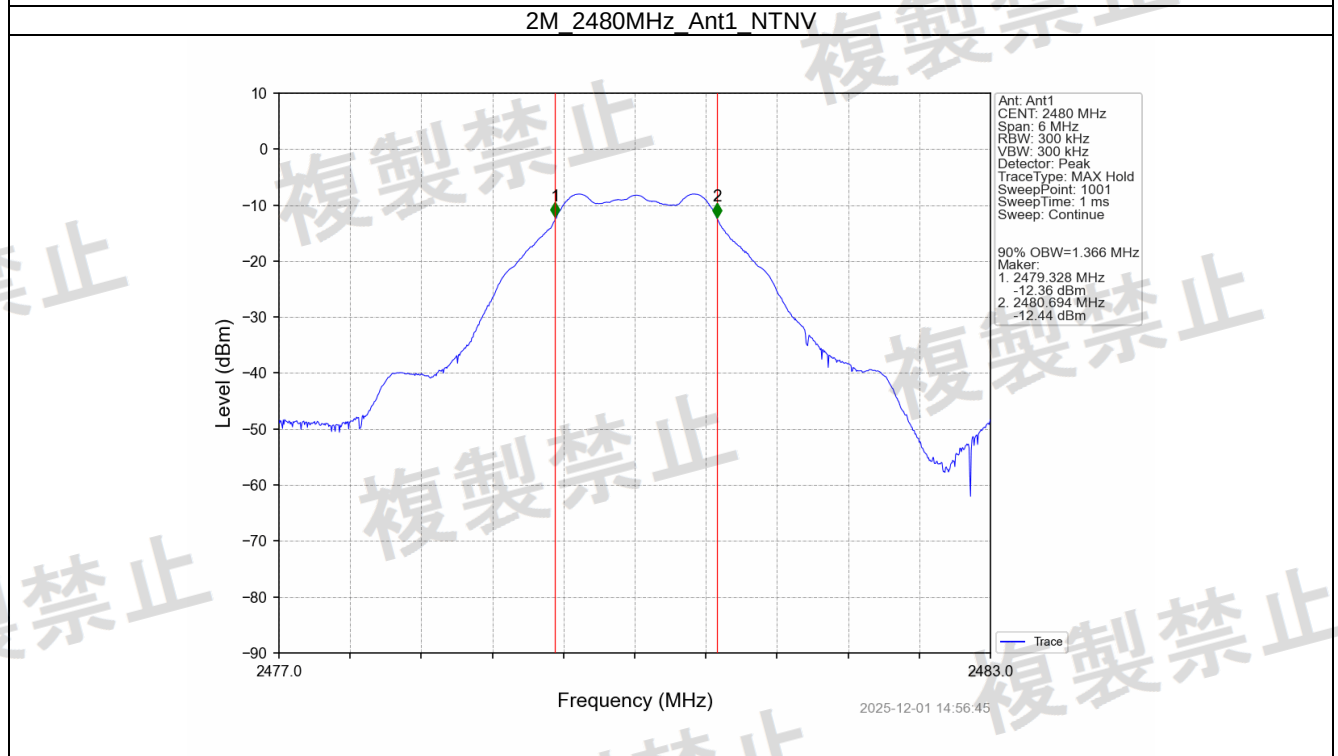
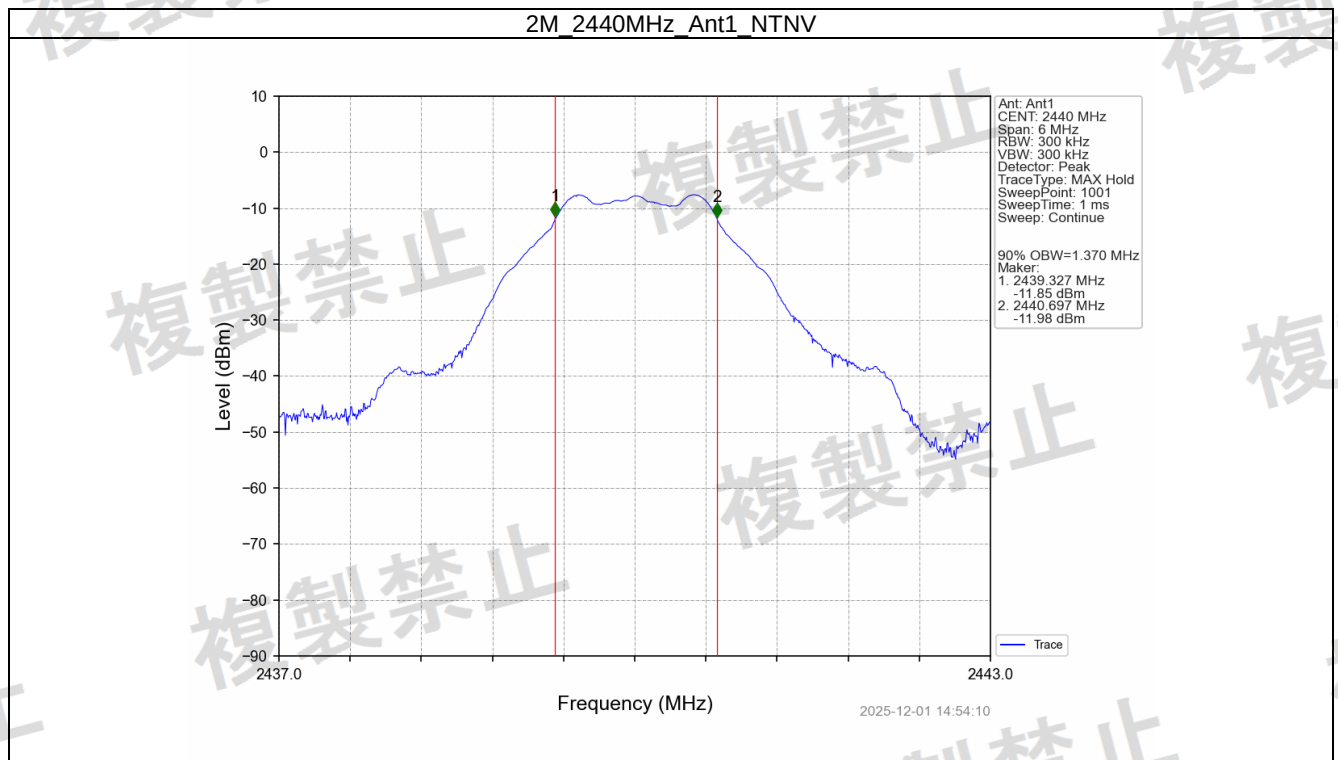


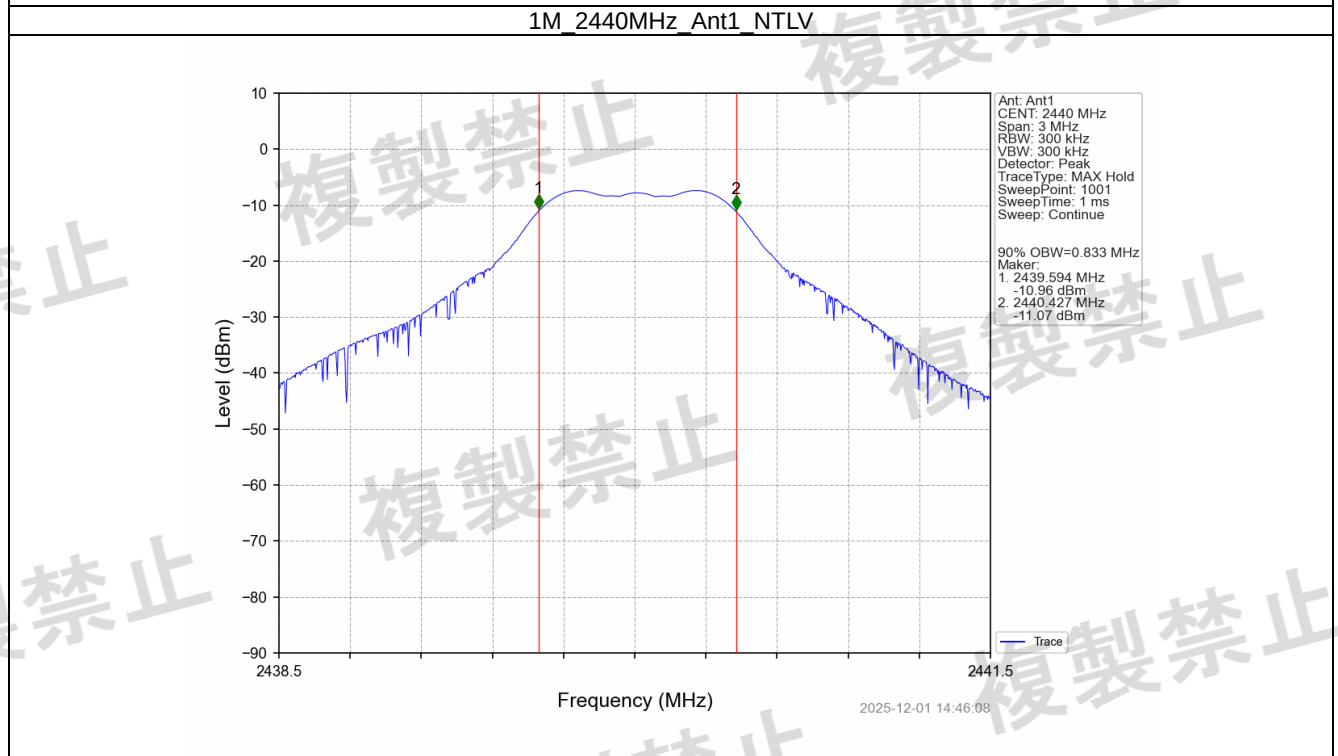
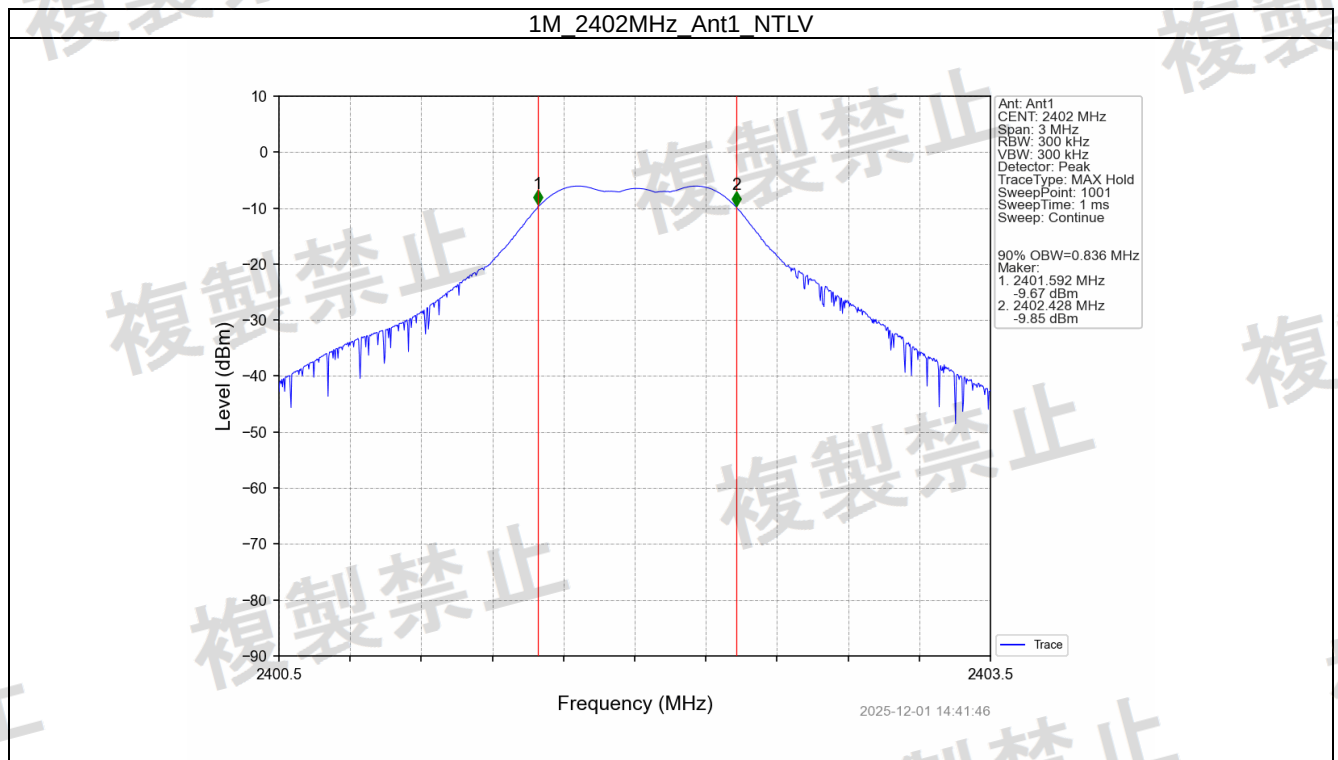
90% Spread Bandwidth

ENV	Mode	TX Type	Frequency (MHz)	Spread Bandwidth (MHz)		Verdict
				ANT1	Limit	
NTNV	1M	SISO	2402	0.836	≥ 0.5	Pass
			2440	0.835	≥ 0.5	Pass
			2480	0.835	≥ 0.5	Pass
	2M	SISO	2402	1.367	≥ 0.5	Pass
			2440	1.370	≥ 0.5	Pass
			2480	1.366	≥ 0.5	Pass
NTLV	1M	SISO	2402	0.836	≥ 0.5	Pass
			2440	0.833	≥ 0.5	Pass
			2480	0.834	≥ 0.5	Pass
	2M	SISO	2402	1.367	≥ 0.5	Pass
			2440	1.368	≥ 0.5	Pass
			2480	1.366	≥ 0.5	Pass
NTHV	1M	SISO	2402	0.834	≥ 0.5	Pass
			2440	0.833	≥ 0.5	Pass
			2480	0.834	≥ 0.5	Pass
	2M	SISO	2402	1.367	≥ 0.5	Pass
			2440	1.367	≥ 0.5	Pass
			2480	1.366	≥ 0.5	Pass



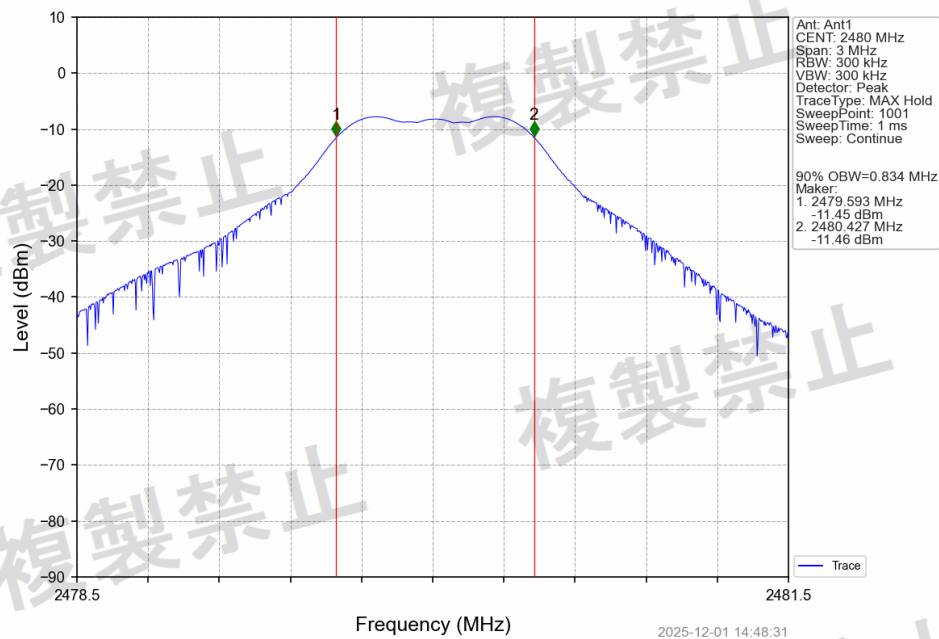




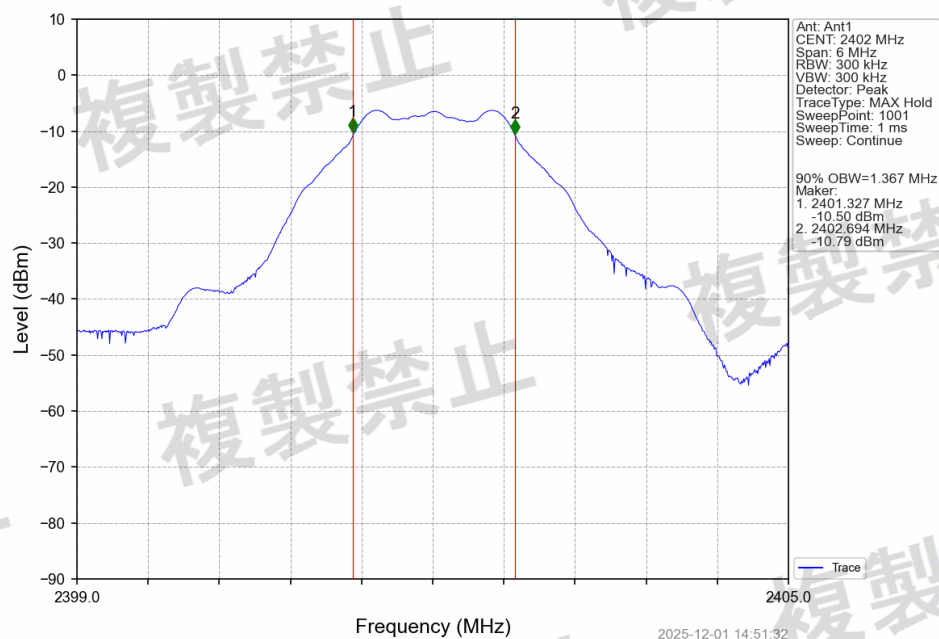




1M_2480MHz_Ant1_NTLV

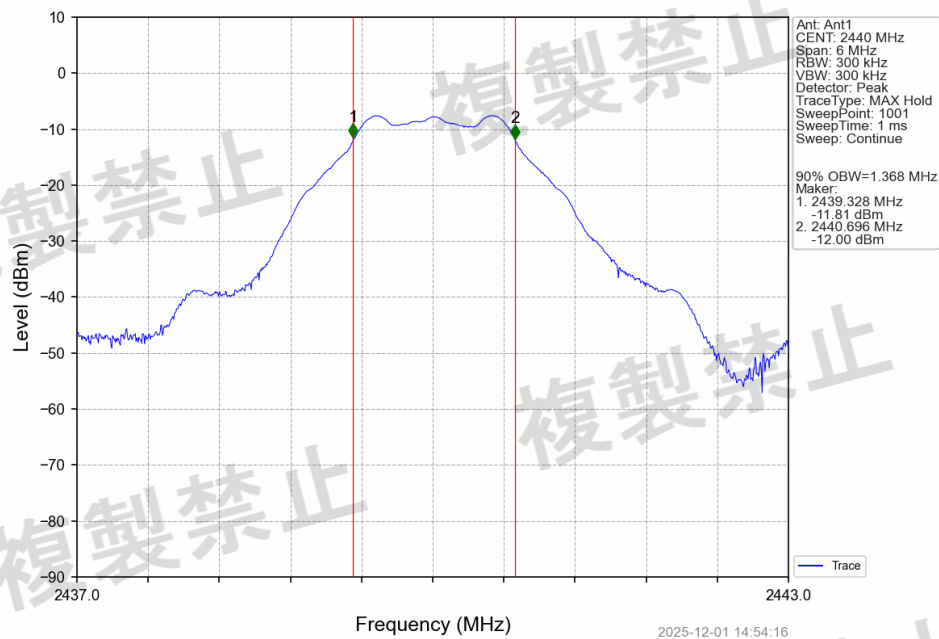


2M_2402MHz_Ant1_NTLV

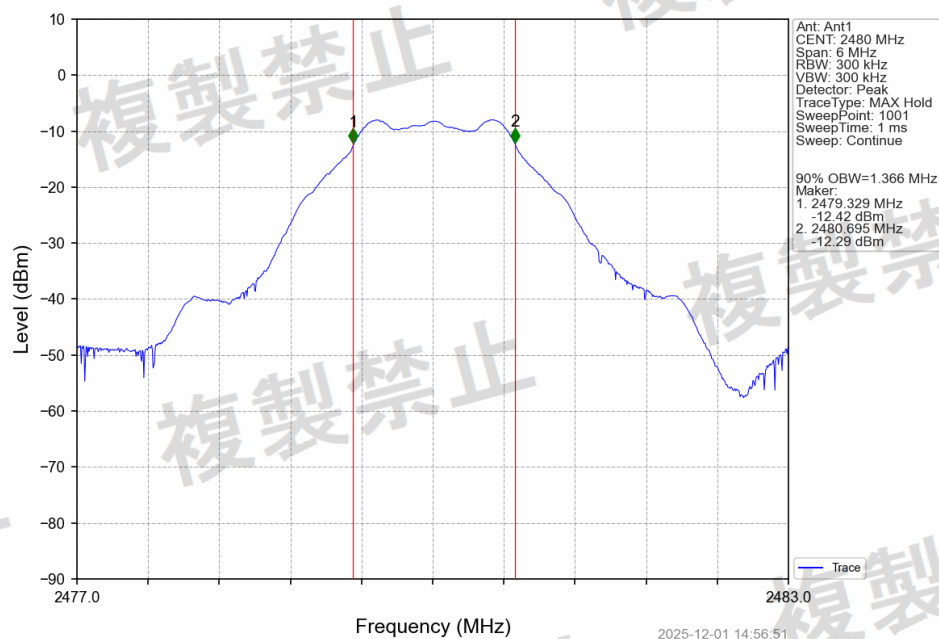




2M_2440MHz_Ant1_NTLV

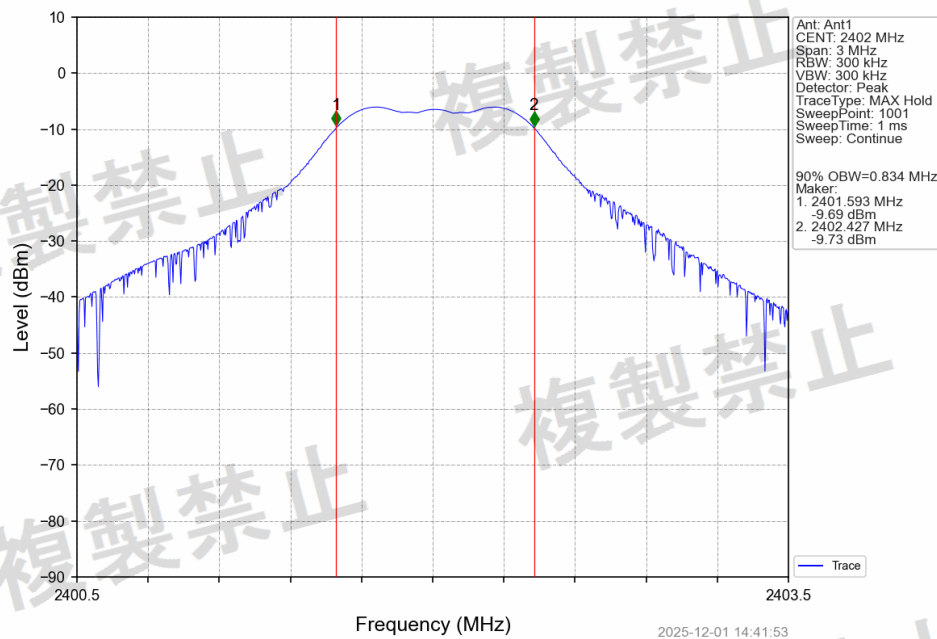


2M_2480MHz_Ant1_NTLV

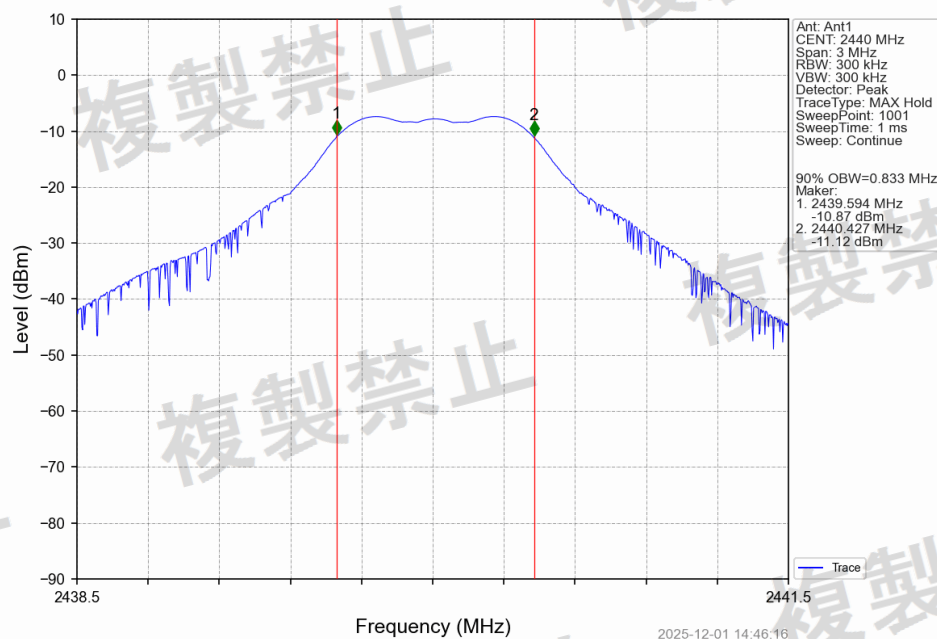




1M 2402MHz_Ant1_NTHV

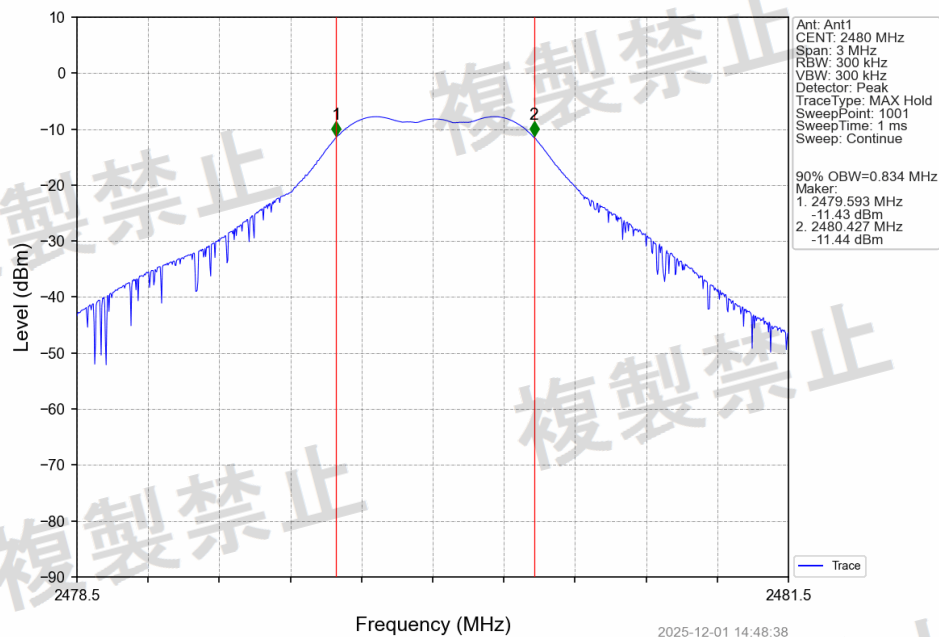


1M 2440MHz_Ant1_NTHV

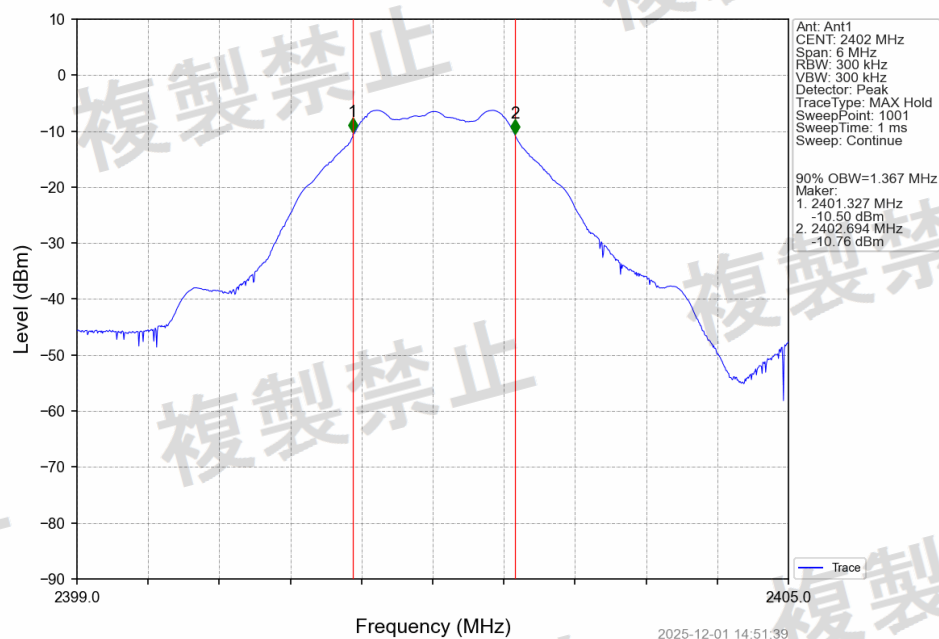




1M 2480MHz_Ant1_NTHV

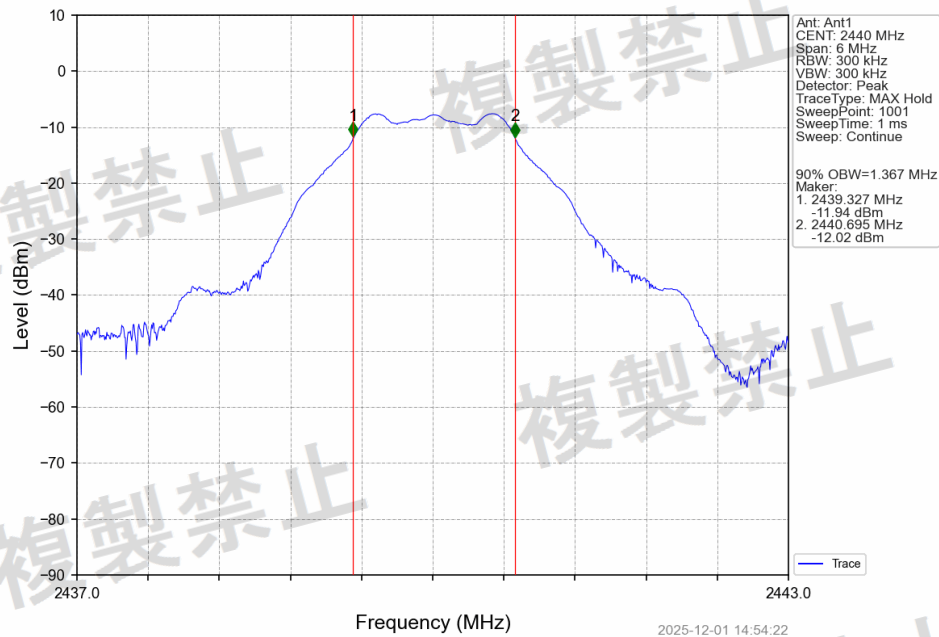


2M 2402MHz_Ant1_NTHV

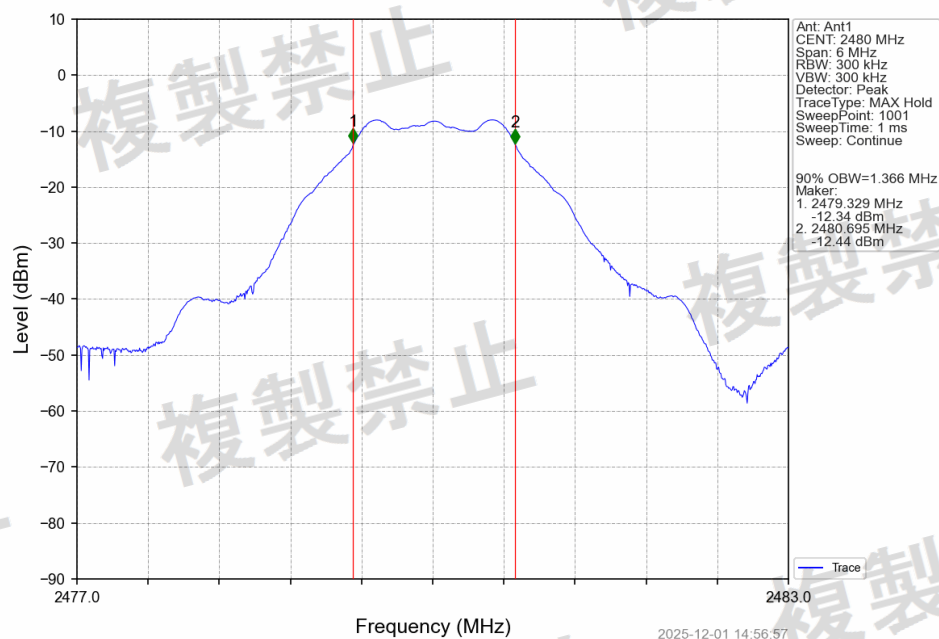




2M 2440MHz_Ant1_NTHV



2M 2480MHz_Ant1_NTHV



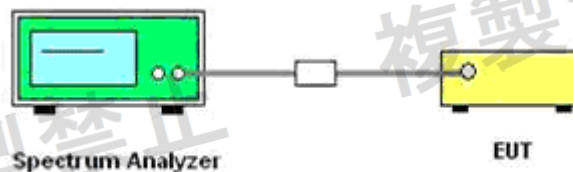
3.4. Unwanted Emission Strength

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 or less
b. $2,387\text{MHz} > f$ and $2,496.5\text{MHz} < f$ 2.5 μW or less

TEST CONFIGURATION



TEST PROCEDURE

The EUT was directly connected to the spectrum analyser and antenna output port as show in the block diagram as TEST CONFIGURATION shows.

EUT Condition: modulation

Spectrum Condition:

Frequency: 30MHz-12.5GHz

RBW: 1MHz (30MHz-1GHz), 1MHz (1GHz-12.5GHz)

VBW: 1MHz (30MHz-1GHz), 1MHz (1GHz-12.5GHz)

Sweep time: Auto

Detector mode: Positive peak

Indication mode: max hold

TEST RESULTS

NTNV												
Mode	TX Type	Freq. (MHz)	ANT	Freq. Range		Marker					Limit (uW /MHz)	Verdict
				Start (MHz)	Stop (MHz)	Freq. (MHz)	PK Power (dBm /MHz)	PK Power (uW /MHz)	AV Power (dBm /MHz)	AV Power (uW /MHz)		
1M	SISO	2402	1	30	2387	2383	-47.83	0.016	/	/	2.5	Pass
				2387	2400	2398.466	-33.81	0.416	/	/	25	Pass
				2483.5	2496.5	2488.934	-57.30	0.002	/	/	25	Pass
				2496.5	12500	4804	-43.18	0.048	/	/	2.5	Pass
		2440	1	30	2387	2385.5	-56.95	0.002	/	/	2.5	Pass
				2387	2400	2399.805	-52.73	0.005	/	/	25	Pass
				2483.5	2496.5	2486.984	-53.69	0.004	/	/	25	Pass
				2496.5	12500	4881	-46.15	0.024	/	/	2.5	Pass
		2480	1	30	2387	2345.5	-61.07	0.001	/	/	2.5	Pass
				2387	2400	2395.957	-58.86	0.001	/	/	25	Pass
				2483.5	2496.5	2483.539	-35.30	0.295	/	/	25	Pass
				2496.5	12500	4960	-45.27	0.030	/	/	2.5	Pass
2M	SISO	2402	1	30	2387	2386.5	-46.24	0.024	/	/	2.5	Pass
				2387	2400	2399.987	-29.06	1.242	/	/	25	Pass
				2483.5	2496.5	2484.995	-57.46	0.002	/	/	25	Pass
				2496.5	12500	4803.5	-44.65	0.034	/	/	2.5	Pass
		2440	1	30	2387	723	-54.97	0.003	/	/	2.5	Pass
				2387	2400	2399.571	-53.62	0.004	/	/	25	Pass
				2483.5	2496.5	2487.478	-53.65	0.004	/	/	25	Pass
				2496.5	12500	4881.5	-46.91	0.020	/	/	2.5	Pass
		2480	1	30	2387	1718.5	-49.52	0.011	/	/	2.5	Pass



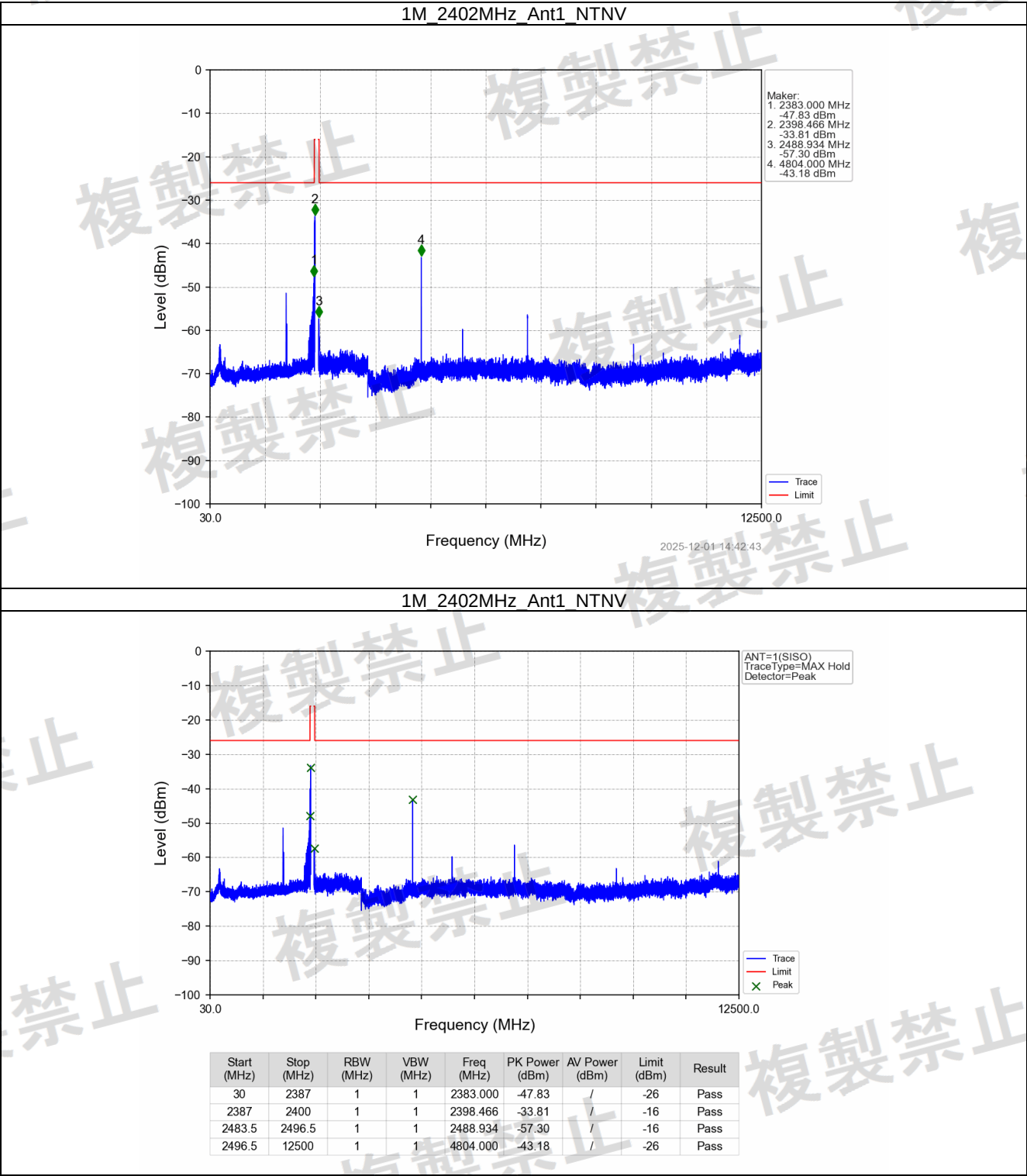
			2387	2400	2397.023	-58.62	0.001	/	/	25	Pass
			2483.5	2496.5	2483.643	-35.01	0.316	/	/	25	Pass
			2496.5	12500	4961.5	-45.63	0.027	/	/	2.5	Pass

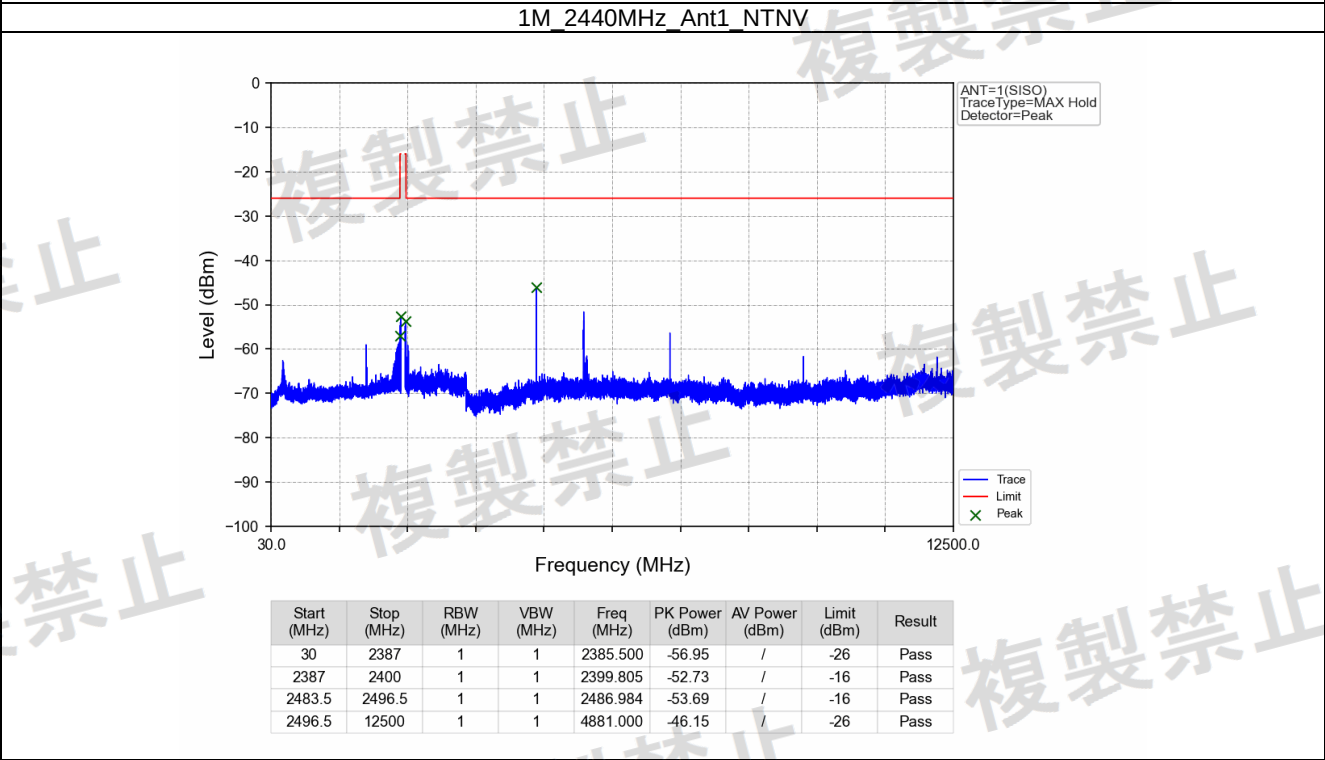
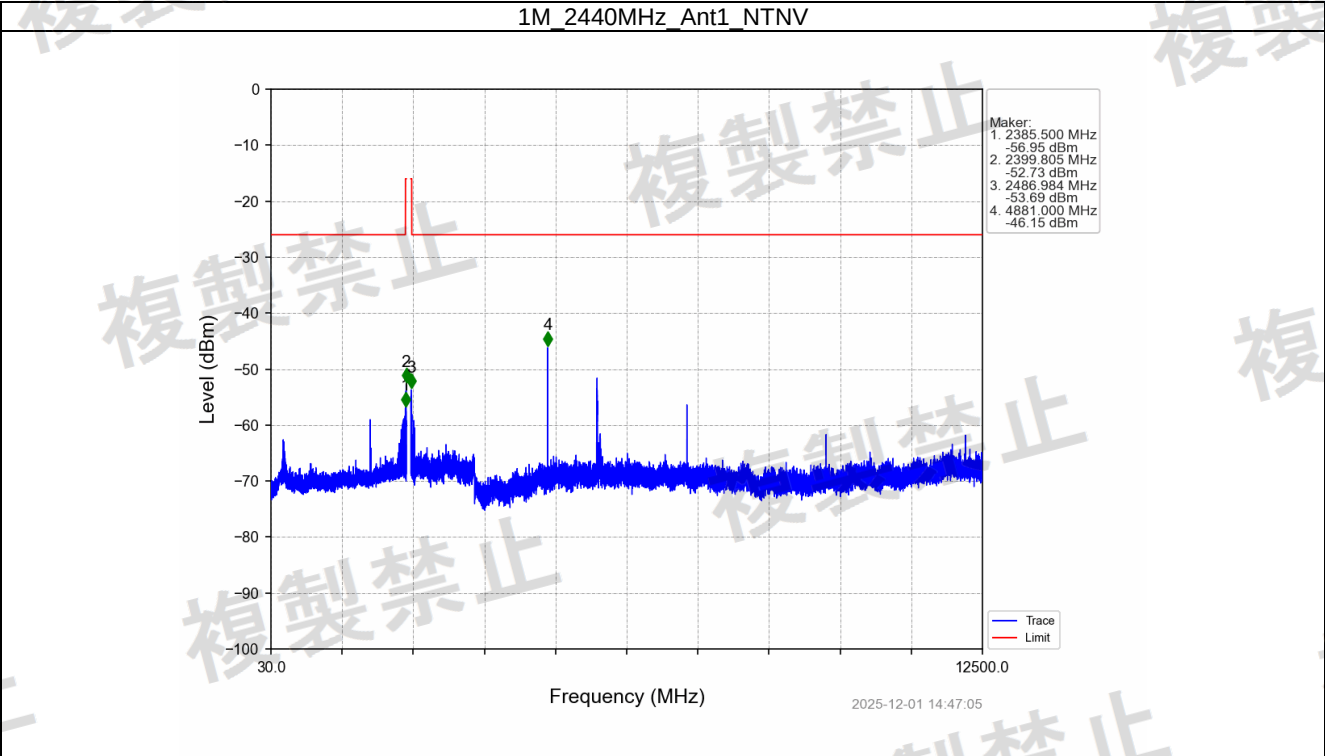
NTLV												
Mode	TX Type	Freq. (MHz)	ANT	Freq. Range		Marker					Limit (uW /MHz)	Verdict
				Start (MHz)	Stop (MHz)	Freq. (MHz)	PK Power (dBm /MHz)	PK Power (uW /MHz)	AV Power (dBm /MHz)	AV Power (uW /MHz)		
1M	SISO	2402	1	30	2387	2383	-47.98	0.016	/	/	2.5	Pass
				2387	2400	2398.479	-33.84	0.413	/	/	25	Pass
				2483.5	2496.5	2485.398	-57.13	0.002	/	/	25	Pass
				2496.5	12500	4805	-43.07	0.049	/	/	2.5	Pass
		2440	1	30	2387	2380	-56.57	0.002	/	/	2.5	Pass
				2387	2400	2399.974	-53.47	0.004	/	/	25	Pass
				2483.5	2496.5	2486.958	-53.81	0.004	/	/	25	Pass
				2496.5	12500	4880.5	-46.04	0.025	/	/	2.5	Pass
		2480	1	30	2387	2373.5	-59.66	0.001	/	/	2.5	Pass
				2387	2400	2396.568	-58.85	0.001	/	/	25	Pass
				2483.5	2496.5	2483.526	-35.28	0.296	/	/	25	Pass
				2496.5	12500	4960	-44.90	0.032	/	/	2.5	Pass
2M	SISO	2402	1	30	2387	2386.5	-46.41	0.023	/	/	2.5	Pass
				2387	2400	2399.987	-29.04	1.247	/	/	25	Pass
				2483.5	2496.5	2485.151	-57.16	0.002	/	/	25	Pass
				2496.5	12500	4803.5	-44.79	0.033	/	/	2.5	Pass
		2440	1	30	2387	706	-54.97	0.003	/	/	2.5	Pass
				2387	2400	2399.545	-53.47	0.004	/	/	25	Pass
				2483.5	2496.5	2483.526	-53.84	0.004	/	/	25	Pass
				2496.5	12500	4879.5	-47.16	0.019	/	/	2.5	Pass
		2480	1	30	2387	1717.5	-48.36	0.015	/	/	2.5	Pass
				2387	2400	2396.633	-59.18	0.001	/	/	25	Pass
				2483.5	2496.5	2483.643	-35.06	0.312	/	/	25	Pass
				2496.5	12500	4959.5	-45.40	0.029	/	/	2.5	Pass

NTHV												
Mode	TX Type	Freq. (MHz)	ANT	Freq. Range		Marker					Limit (uW /MHz)	Verdict
				Start (MHz)	Stop (MHz)	Freq. (MHz)	PK Power (dBm /MHz)	PK Power (uW /MHz)	AV Power (dBm /MHz)	AV Power (uW /MHz)		
1M	SISO	2402	1	30	2387	2383	-47.62	0.017	/	/	2.5	Pass
				2387	2400	2398.362	-33.84	0.413	/	/	25	Pass
				2483.5	2496.5	2485.229	-57.26	0.002	/	/	25	Pass
				2496.5	12500	4804	-43.26	0.047	/	/	2.5	Pass
		2440	1	30	2387	2384.5	-55.71	0.003	/	/	2.5	Pass
				2387	2400	2399.818	-53.19	0.005	/	/	25	Pass
				2483.5	2496.5	2487.192	-54.09	0.004	/	/	25	Pass
				2496.5	12500	4881	-46.08	0.025	/	/	2.5	Pass
		2480	1	30	2387	2382	-60.19	0.001	/	/	2.5	Pass
				2387	2400	2392.473	-58.68	0.001	/	/	25	Pass
				2483.5	2496.5	2483.552	-35.29	0.296	/	/	25	Pass
				2496.5	12500	4960.5	-45.05	0.031	/	/	2.5	Pass
2M	SISO	2402	1	30	2387	2382.5	-48.19	0.015	/	/	2.5	Pass
				2387	2400	2399.987	-29.05	1.245	/	/	25	Pass
				2483.5	2496.5	2485.086	-57.12	0.002	/	/	25	Pass
				2496.5	12500	4803.5	-44.93	0.032	/	/	2.5	Pass
		2440	1	30	2387	2365.5	-56.99	0.002	/	/	2.5	Pass
				2387	2400	2399.701	-53.15	0.005	/	/	25	Pass
				2483.5	2496.5	2483.539	-53.36	0.005	/	/	25	Pass
				2496.5	12500	4881.5	-46.50	0.022	/	/	2.5	Pass
		2480	1	30	2387	723	-56.18	0.002	/	/	2.5	Pass
				2387	2400	2397.127	-58.70	0.001	/	/	25	Pass
				2483.5	2496.5	2483.565	-34.98	0.318	/	/	25	Pass
				2496.5	12500	4959.5	-45.57	0.028	/	/	2.5	Pass



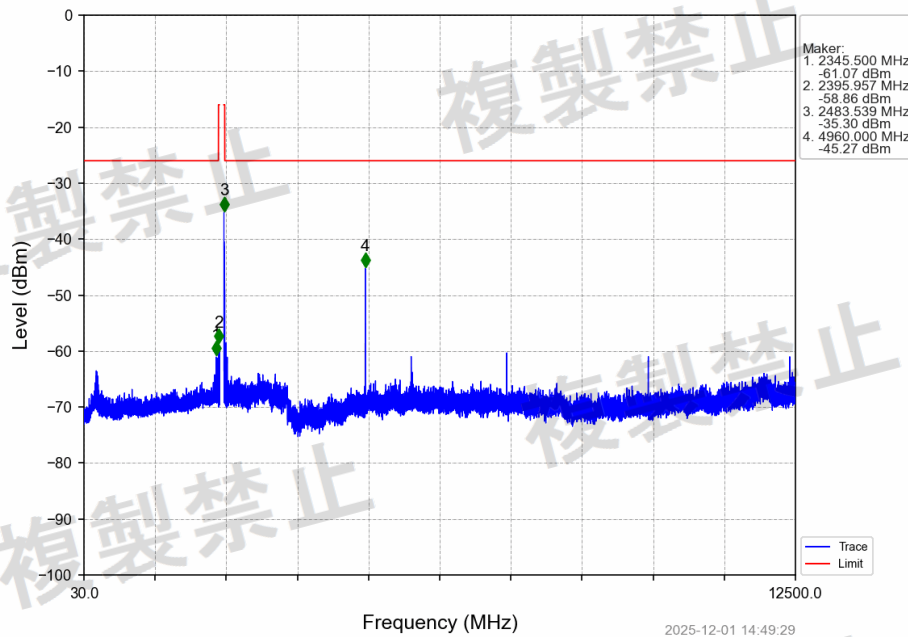
TxSe_NTNV



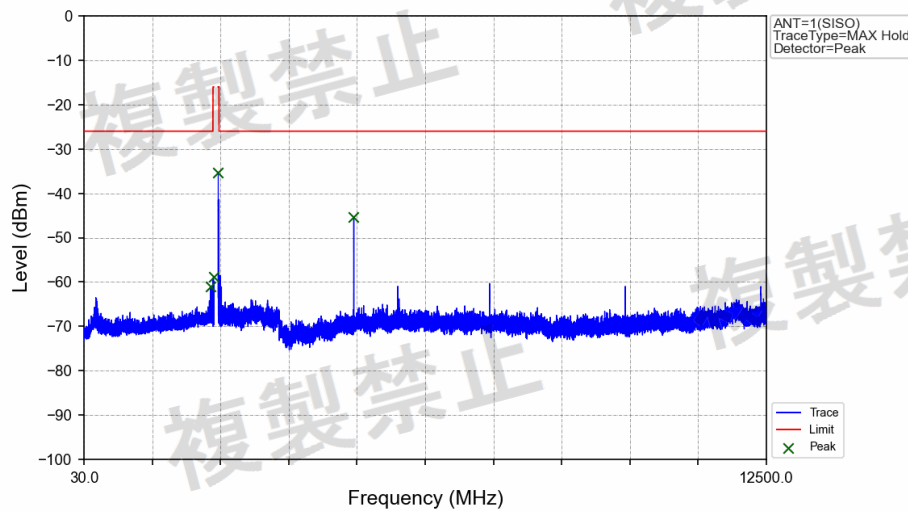




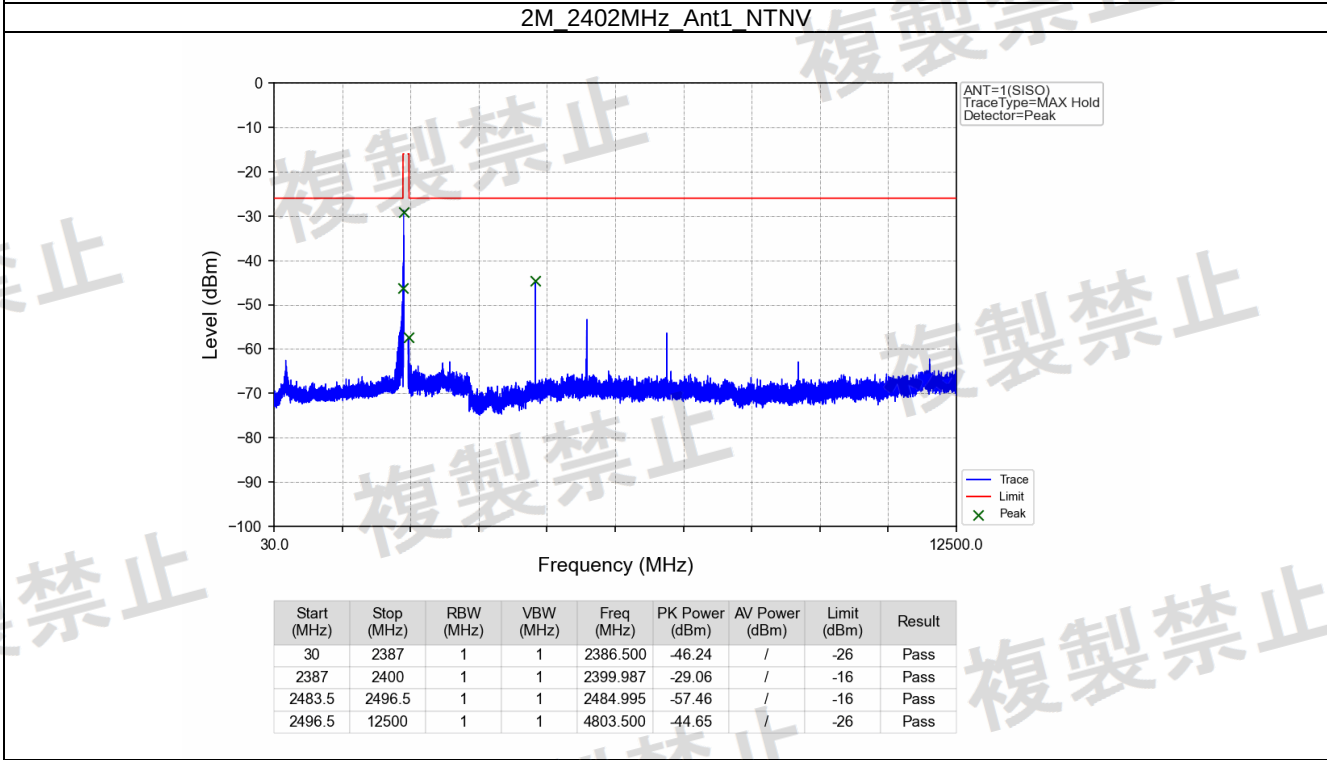
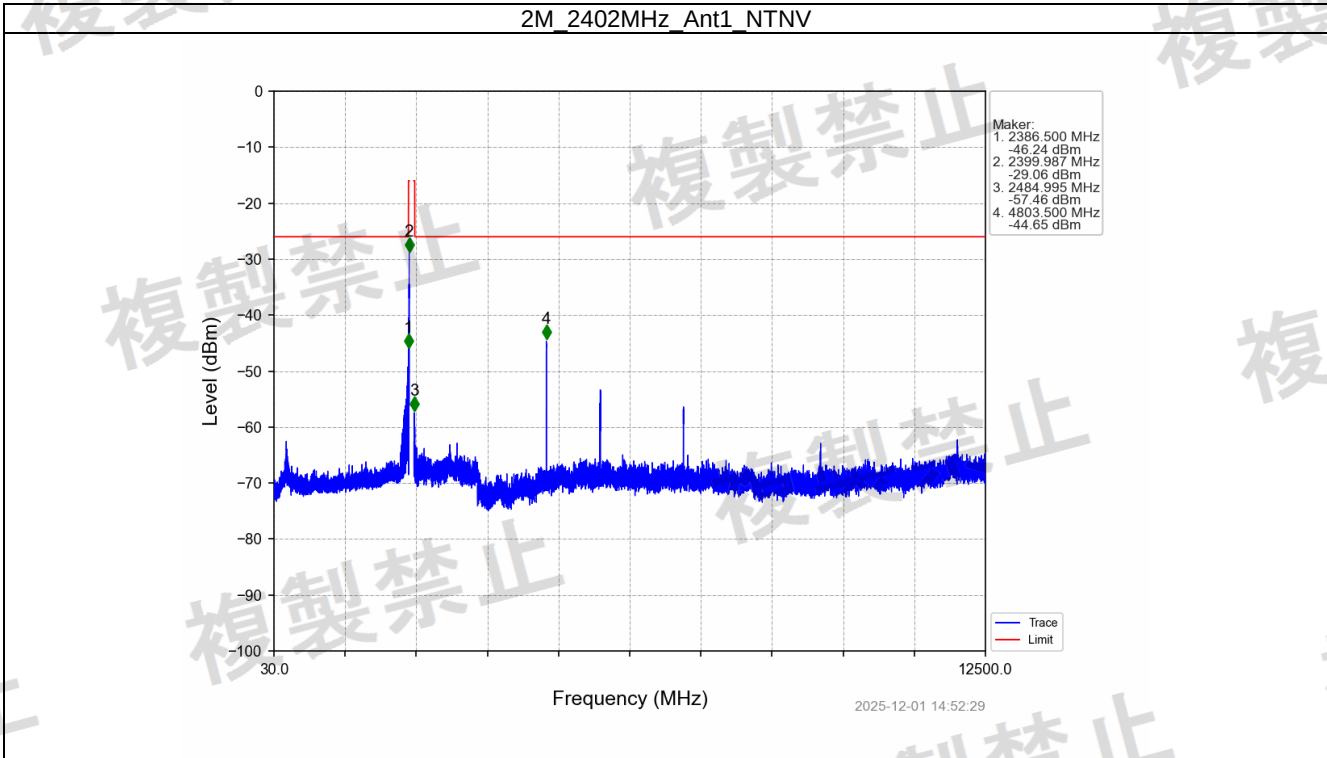
1M_2480MHz_Ant1_NTNV



1M_2480MHz_Ant1_NTNV

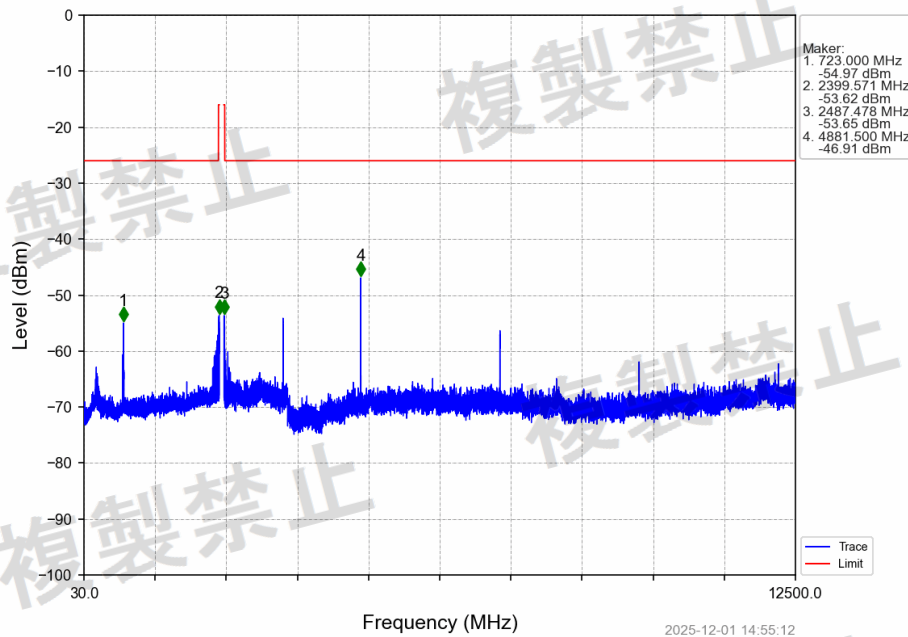


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	2387	1	1	2345.500	-61.07	/	-26	Pass
2387	2400	1	1	2395.957	-58.86	/	-16	Pass
2483.5	2496.5	1	1	2483.539	-35.30	/	-16	Pass
2496.5	12500	1	1	4960.000	-45.27	/	-26	Pass

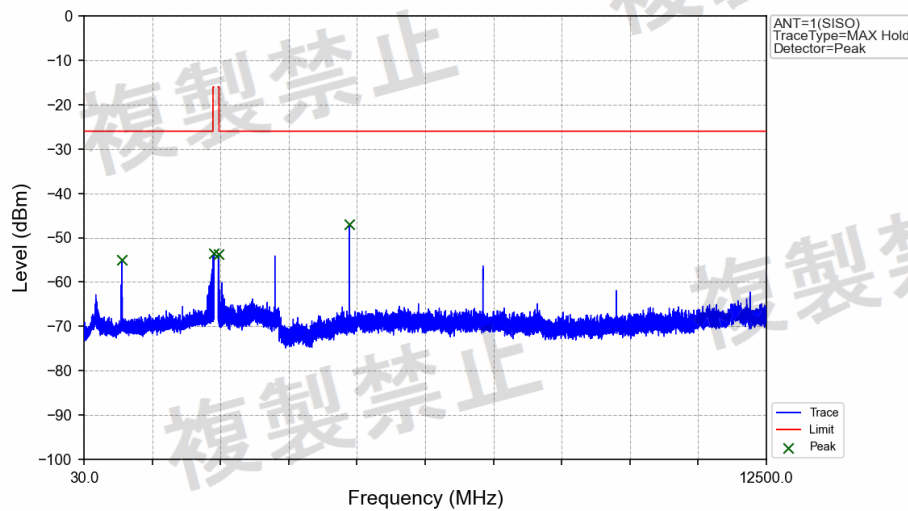




2M_2440MHz_Ant1_NTNV



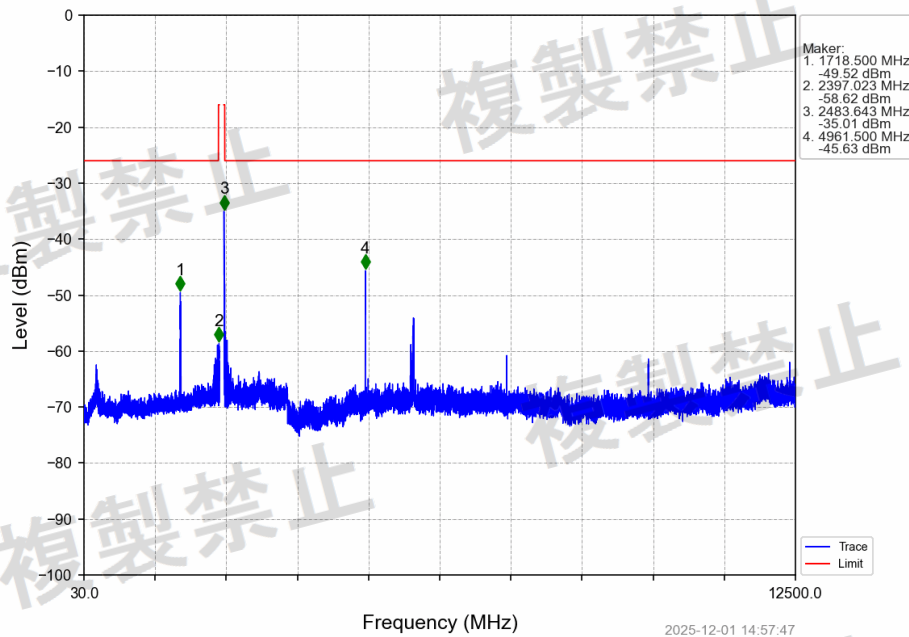
2M_2440MHz_Ant1_NTNV



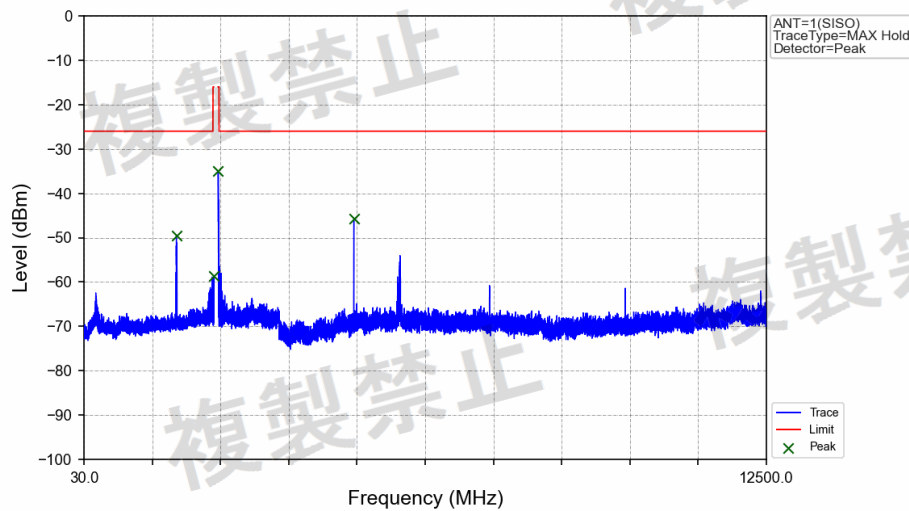
Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	2387	1	1	723.000	-54.97	/	-26	Pass
2387	2400	1	1	2399.571	-53.62	/	-16	Pass
2483.5	2496.5	1	1	2487.478	-53.65	/	-16	Pass
2496.5	12500	1	1	4881.500	-46.91	/	-26	Pass



2M_2480MHz_Ant1_NTNV



2M_2480MHz_Ant1_NTNV

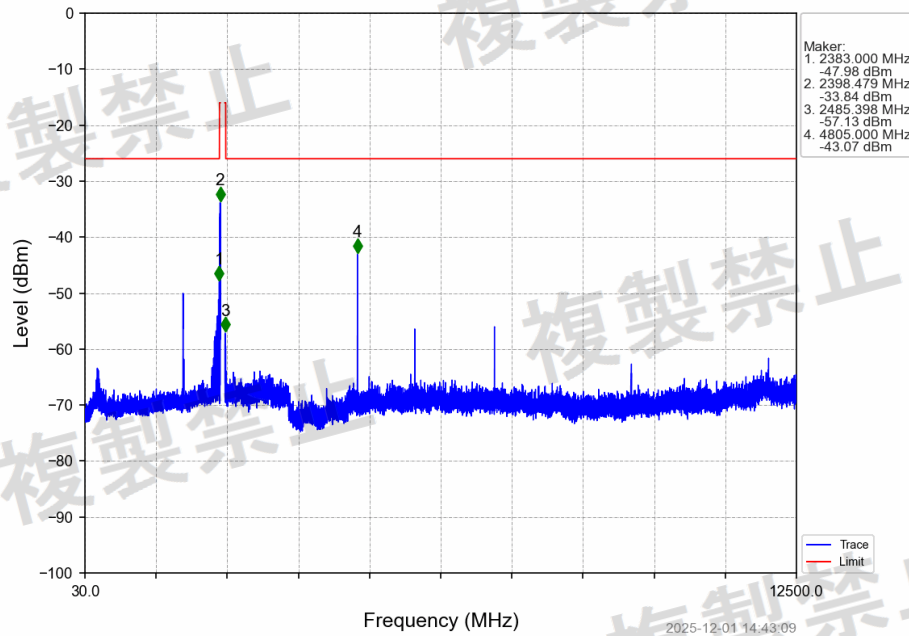


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	2387	1	1	1718.500	-49.52	/	-26	Pass
2387	2400	1	1	2397.023	-58.62	/	-16	Pass
2483.5	2496.5	1	1	2483.643	-35.01	/	-16	Pass
2496.5	12500	1	1	4961.500	-45.63	/	-26	Pass

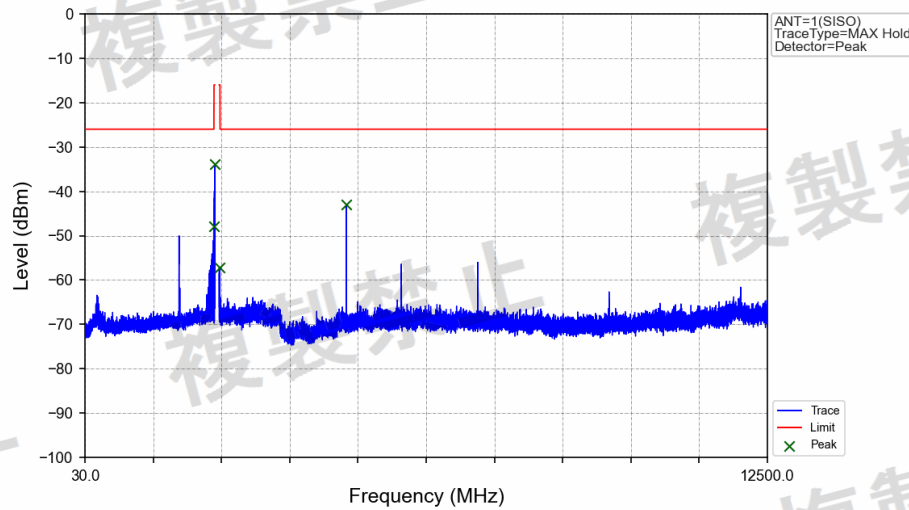


TxSe_NTLV

1M_2402MHz_Ant1_NTLV



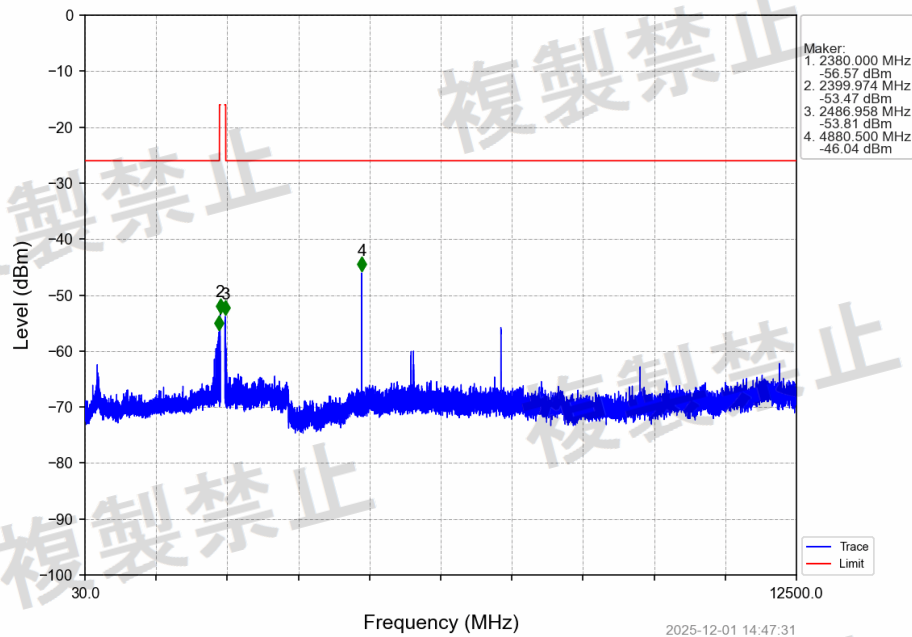
1M_2402MHz_Ant1_NTLV



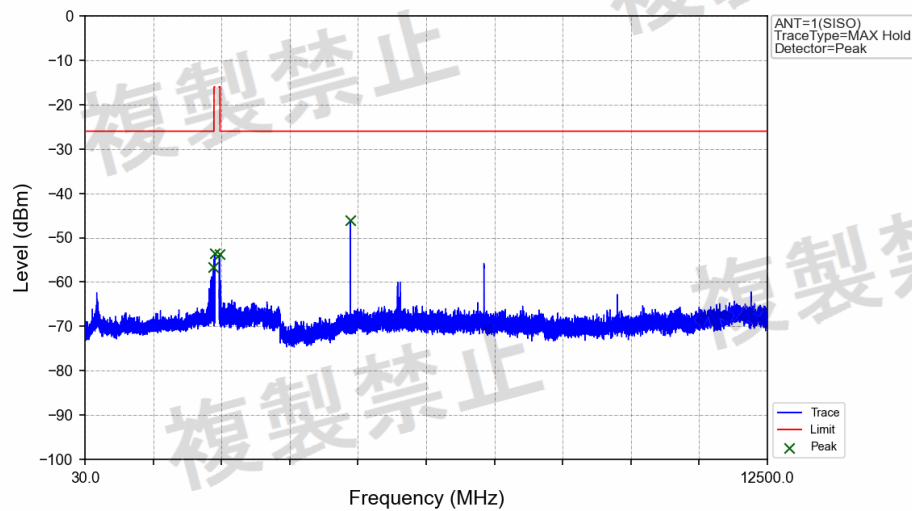
Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	2387	1	1	2383.000	-47.98	/	-26	Pass
2387	2400	1	1	2398.479	-33.84	/	-16	Pass
2483.5	2496.5	1	1	2485.398	-57.13	/	-16	Pass
2496.5	12500	1	1	4805.000	-43.07	/	-26	Pass



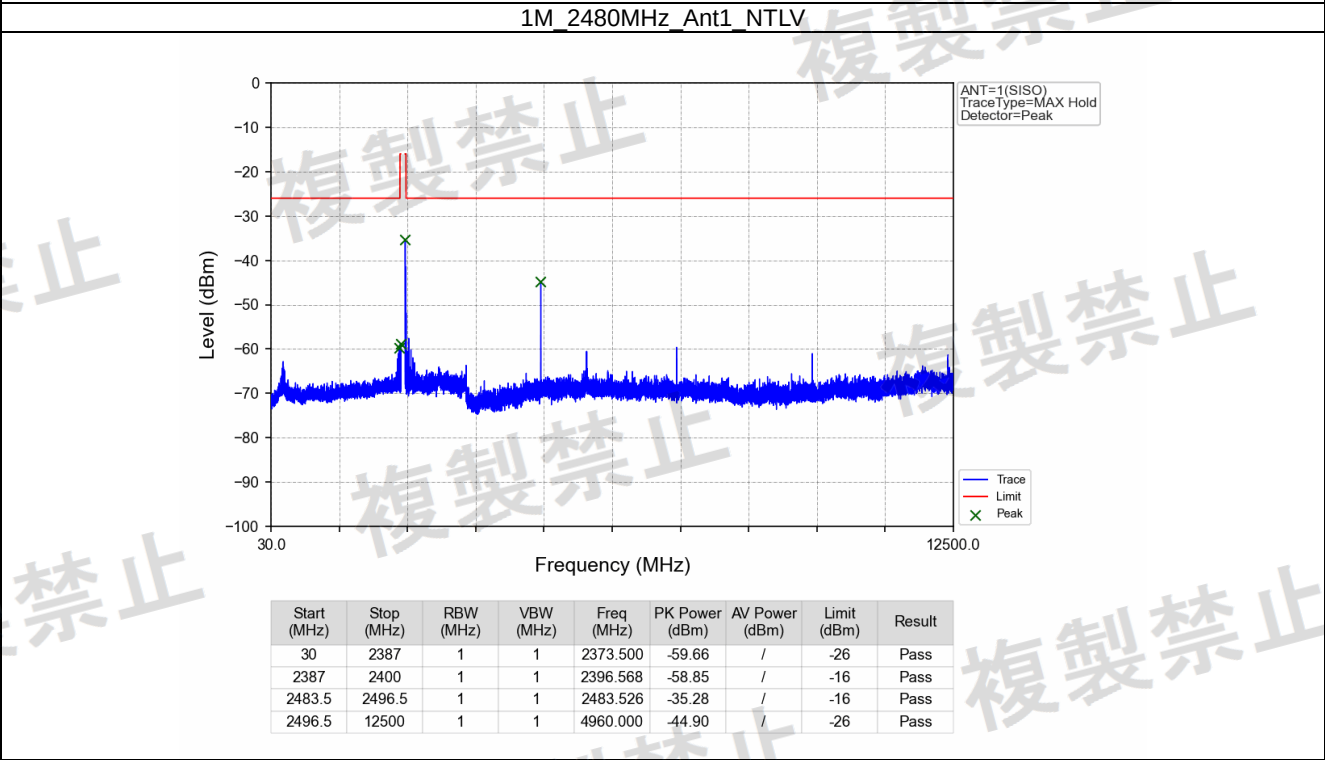
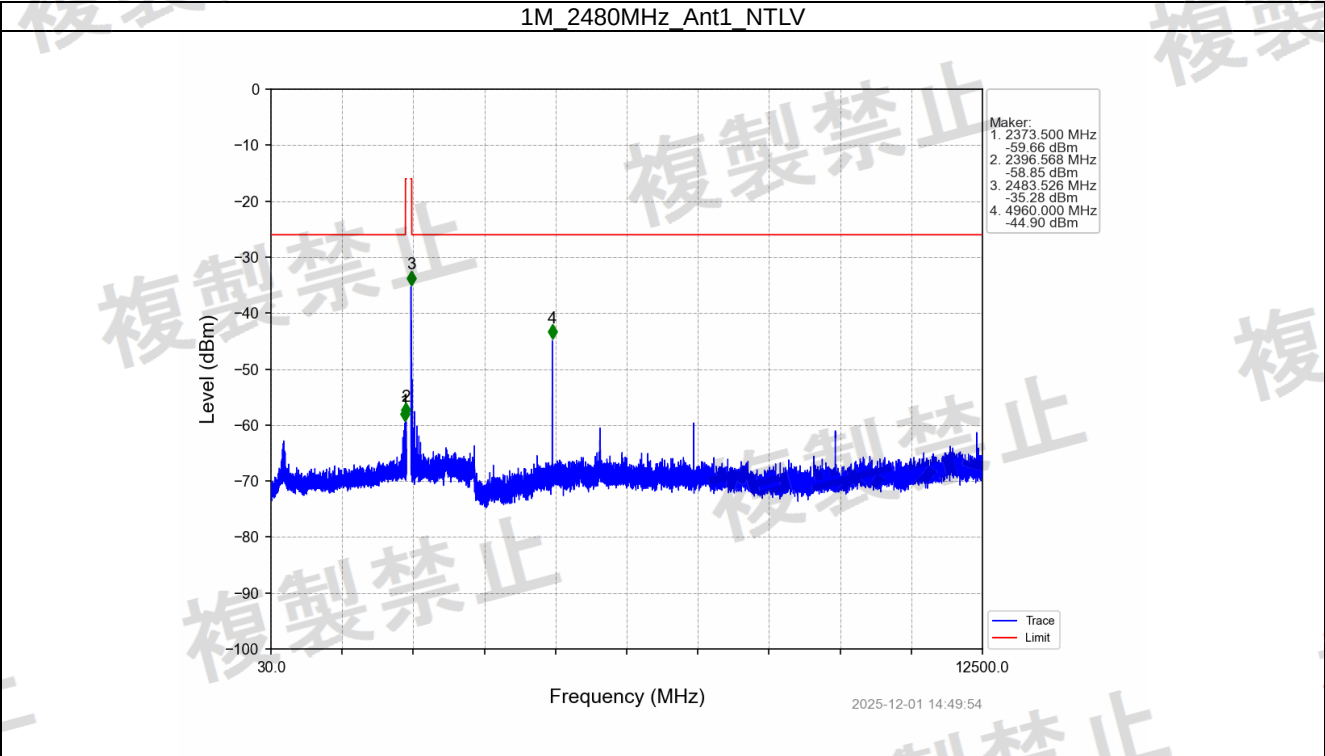
1M_2440MHz_Ant1_NTLV



1M_2440MHz_Ant1_NTLV

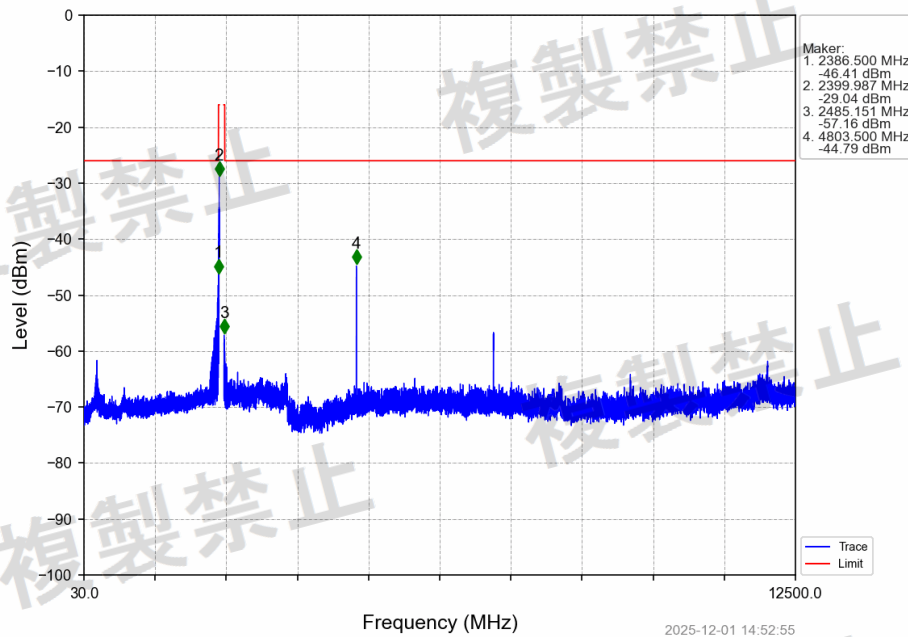


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	2387	1	1	2380.000	-56.57	/	-26	Pass
2387	2400	1	1	2399.974	-53.47	/	-16	Pass
2483.5	2496.5	1	1	2486.958	-53.81	/	-16	Pass
2496.5	12500	1	1	4880.500	-46.04	/	-26	Pass

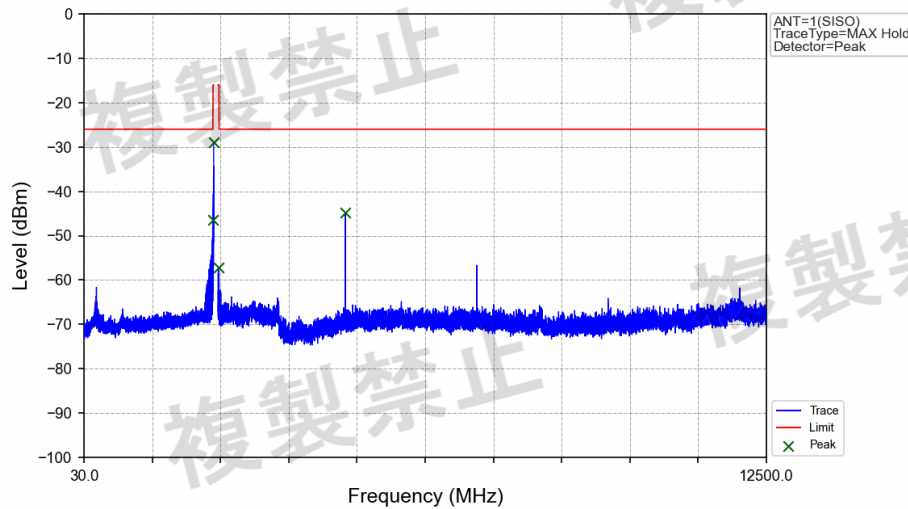




2M_2402MHz_Ant1_NTLV



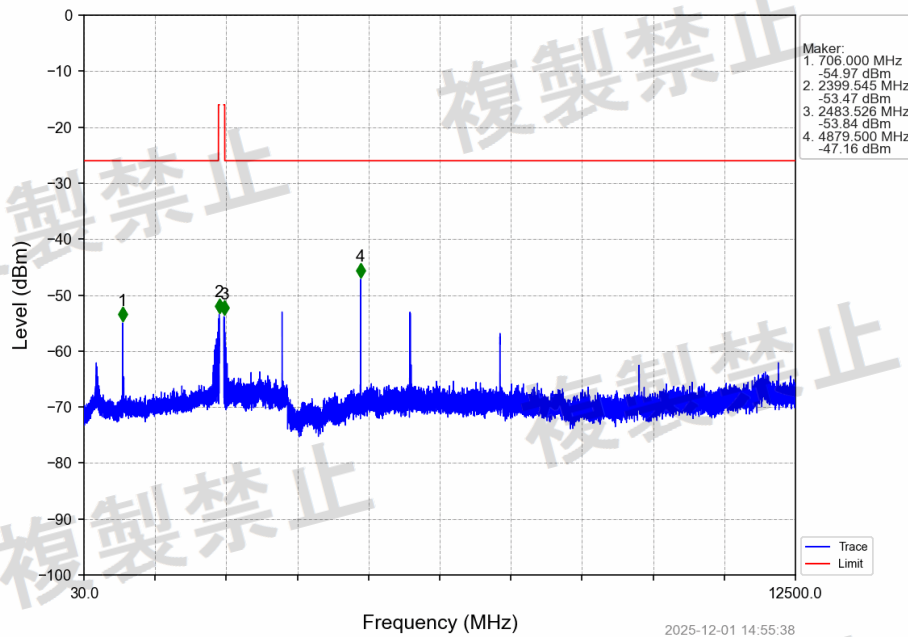
2M_2402MHz_Ant1_NTLV



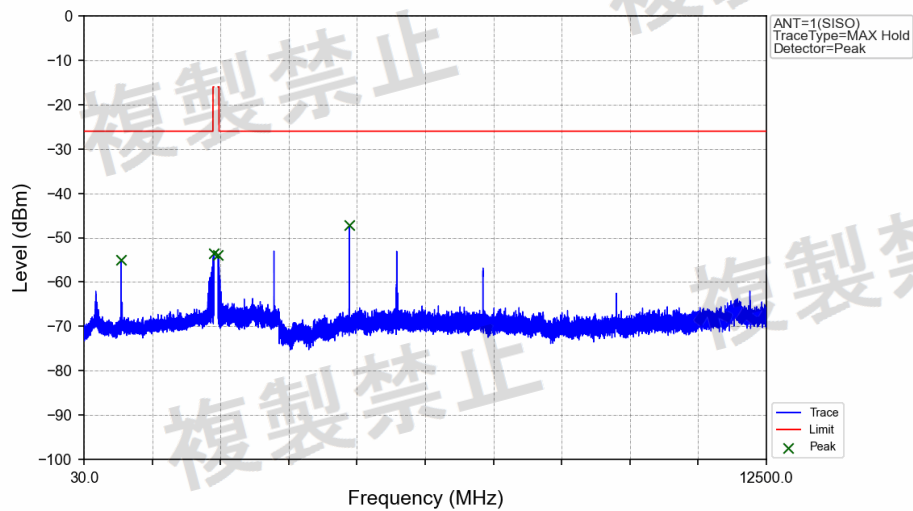
Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	2387	1	1	2386.500	-46.41	/	-26	Pass
2387	2400	1	1	2399.987	-29.04	/	-16	Pass
2483.5	2496.5	1	1	2485.151	-57.16	/	-16	Pass
2496.5	12500	1	1	4803.500	-44.79	/	-26	Pass



2M_2440MHz_Ant1_NTLV



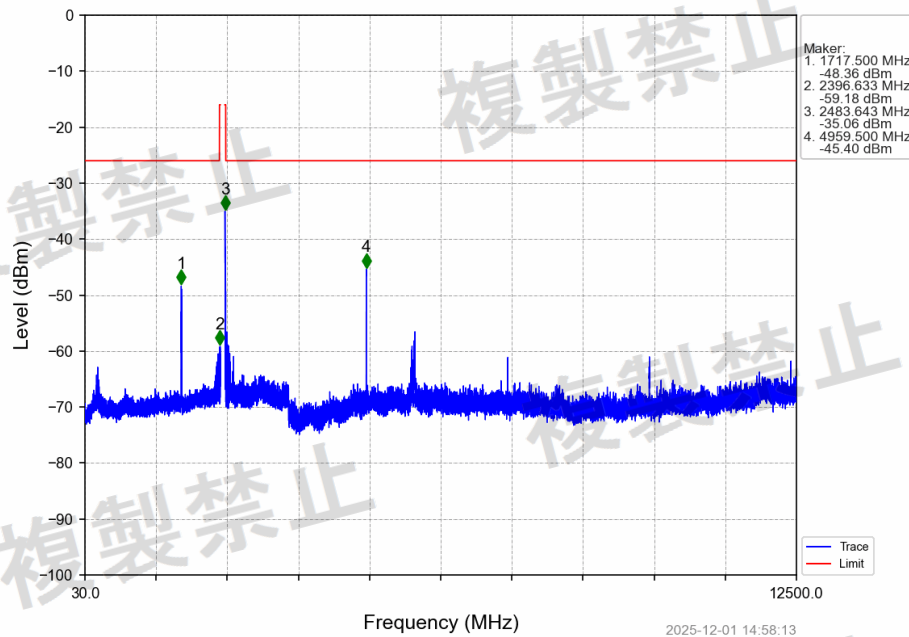
2M_2440MHz_Ant1_NTLV



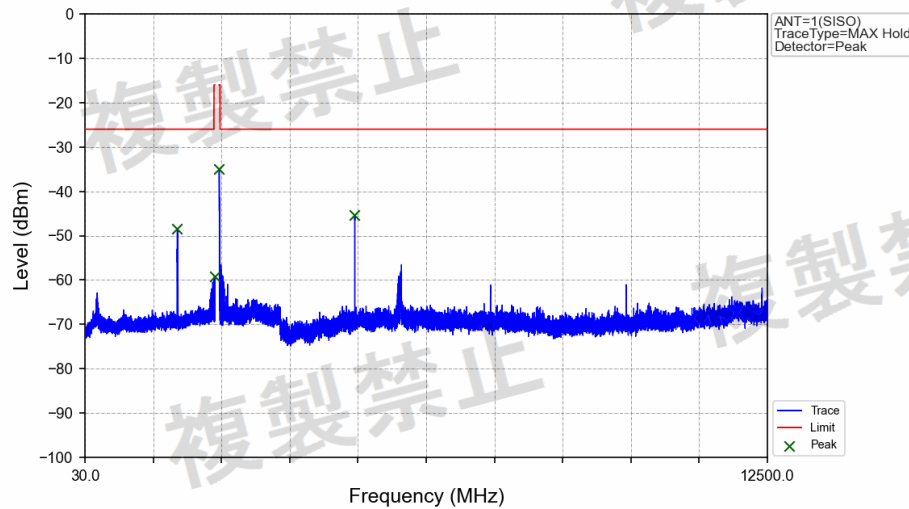
Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	2387	1	1	706.000	-54.97	/	-26	Pass
2387	2400	1	1	2399.545	-53.47	/	-16	Pass
2483.5	2496.5	1	1	2483.526	-53.84	/	-16	Pass
2496.5	12500	1	1	4879.500	-47.16	/	-26	Pass



2M_2480MHz_Ant1_NTLV



2M_2480MHz_Ant1_NTLV

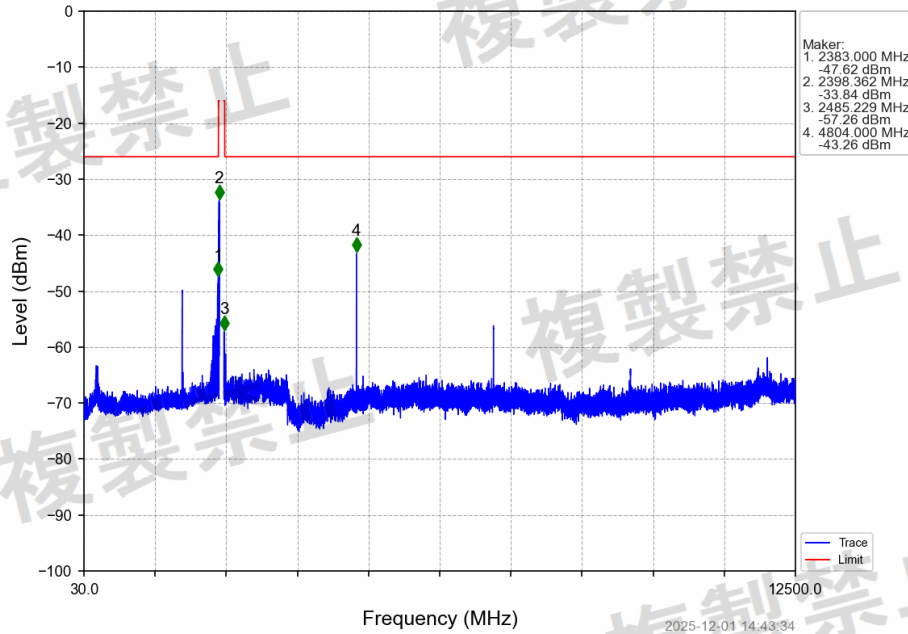


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	2387	1	1	1717.500	-48.36	/	-26	Pass
2387	2400	1	1	2396.633	-59.18	/	-16	Pass
2483.5	2496.5	1	1	2483.643	-35.06	/	-16	Pass
2496.5	12500	1	1	4959.500	-45.40	/	-26	Pass

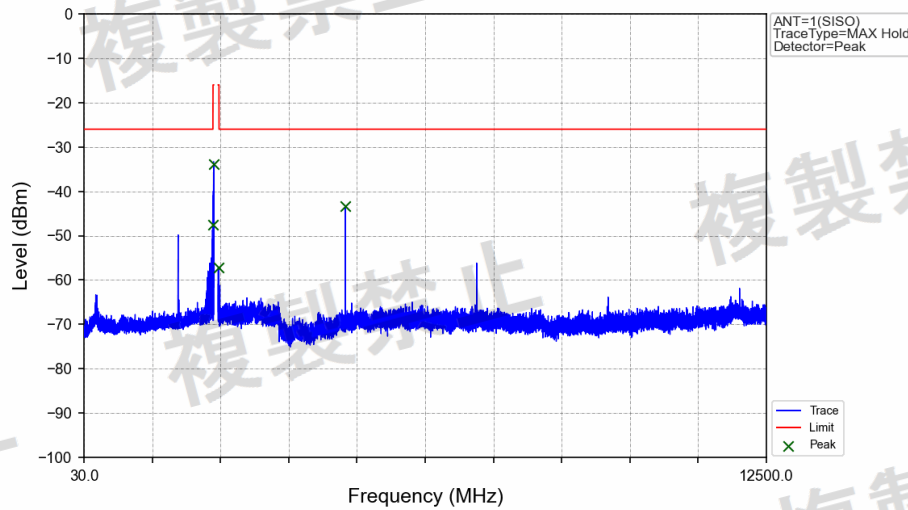


TxSe_NTHV

1M 2402MHz_Ant1_NTHV



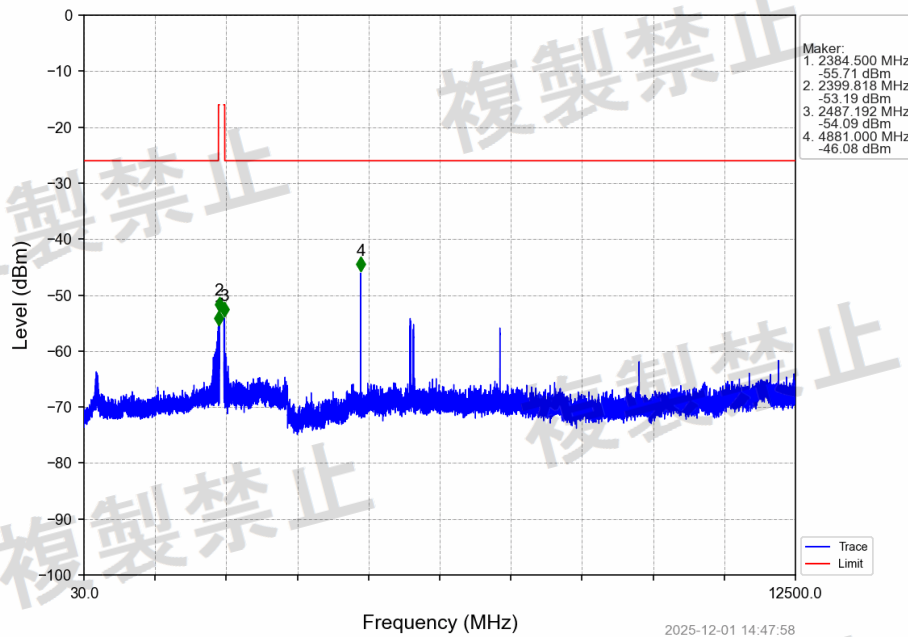
1M 2402MHz_Ant1_NTHV



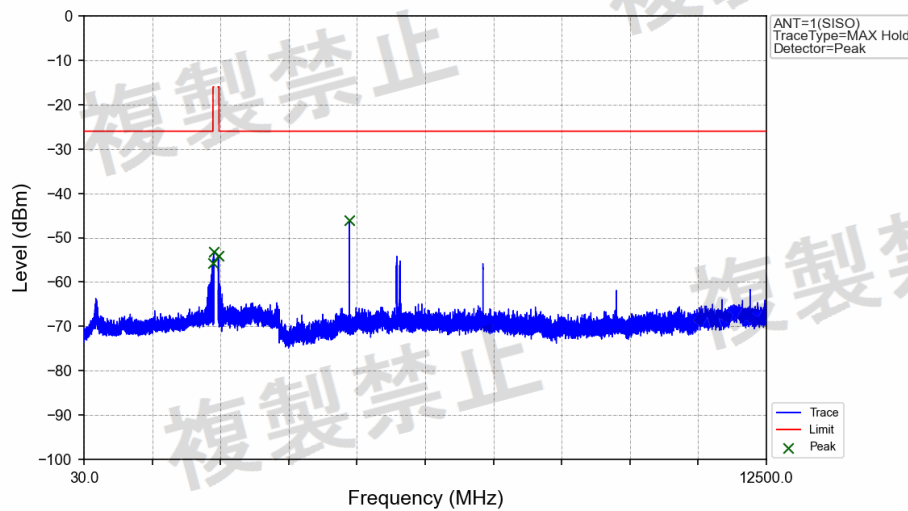
Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	2387	1	1	2383.000	-47.62	/	-26	Pass
2387	2400	1	1	2398.362	-33.84	/	-16	Pass
2483.5	2496.5	1	1	2485.229	-57.26	/	-16	Pass
2496.5	12500	1	1	4804.000	-43.26	/	-26	Pass



1M 2440MHz_Ant1_NTHV



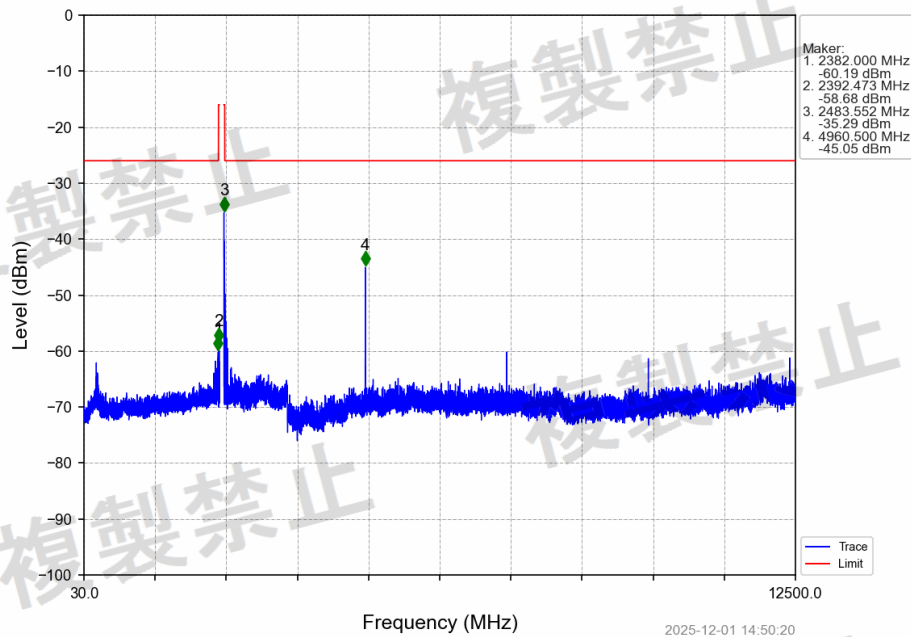
1M 2440MHz_Ant1_NTHV



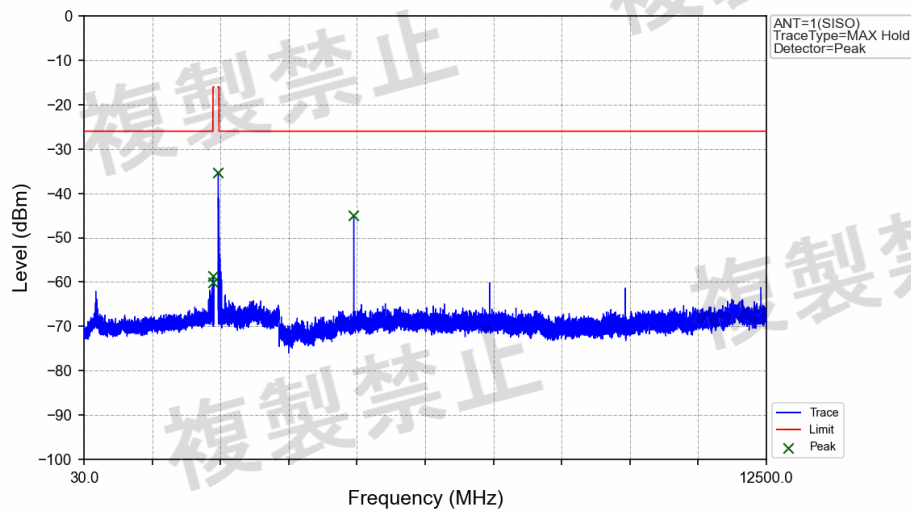
Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	2387	1	1	2384.500	-55.71	/	-26	Pass
2387	2400	1	1	2399.818	-53.19	/	-16	Pass
2483.5	2496.5	1	1	2487.192	-54.09	/	-16	Pass
2496.5	12500	1	1	4881.000	-46.08	/	-26	Pass



1M_2480MHz_Ant1_NTHV



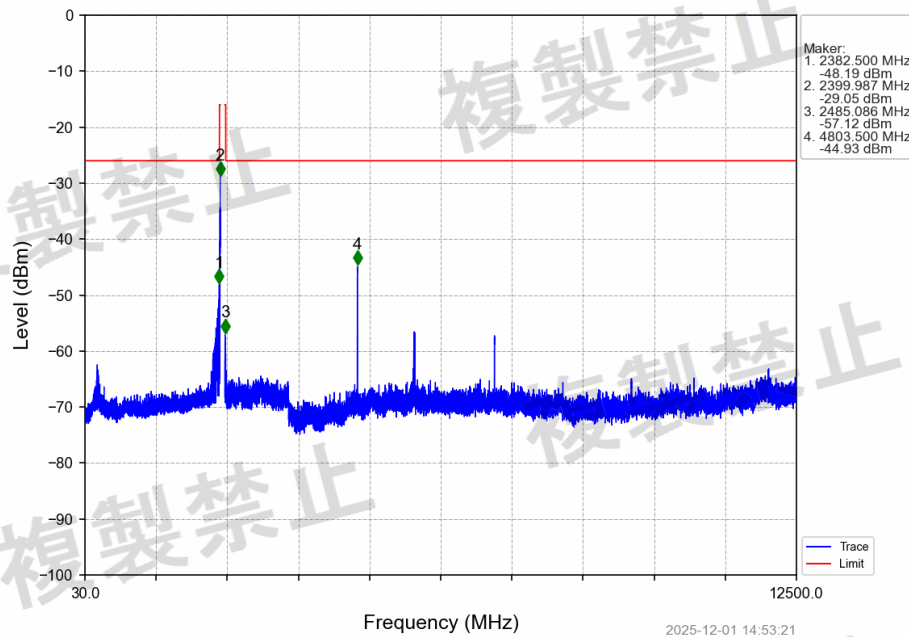
1M_2480MHz_Ant1_NTHV



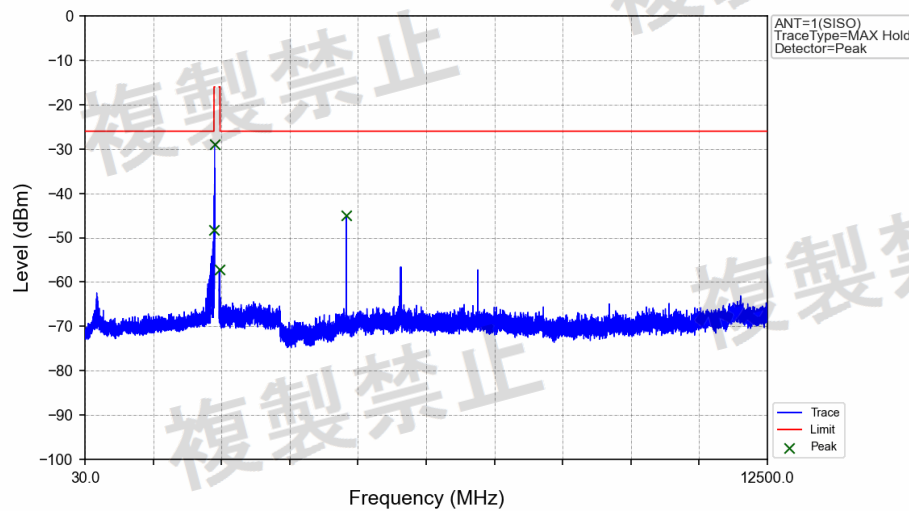
Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	2387	1	1	2382.000	-60.19	/	-26	Pass
2387	2400	1	1	2392.473	-58.68	/	-16	Pass
2483.5	2496.5	1	1	2483.552	-35.29	/	-16	Pass
2496.5	12500	1	1	4960.500	-45.05	/	-26	Pass



2M_2402MHz_Ant1_NTHV



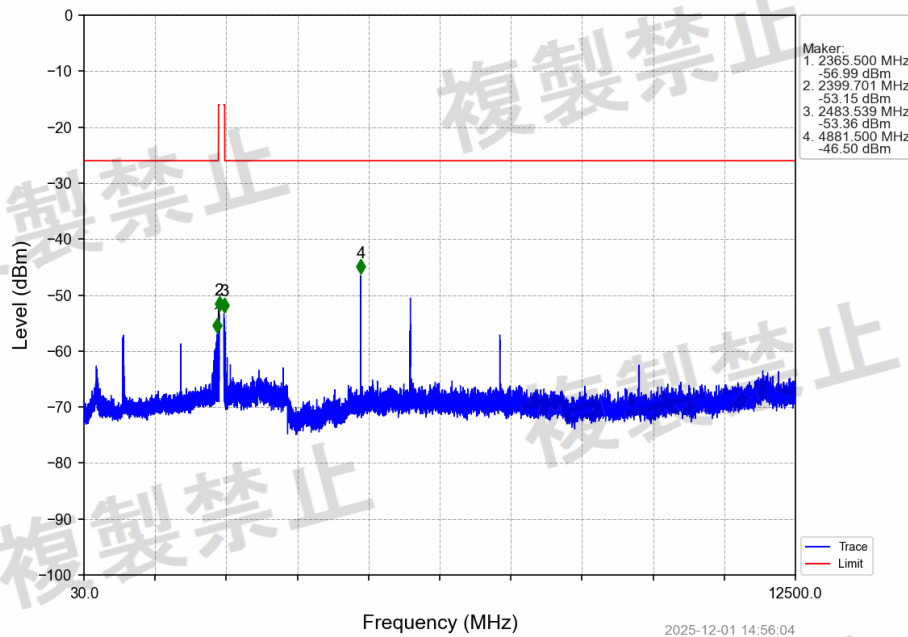
2M_2402MHz_Ant1_NTHV



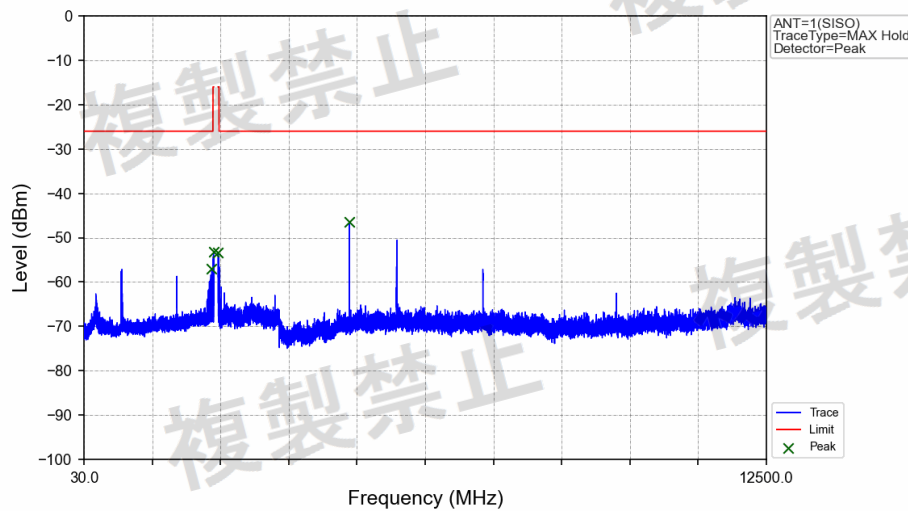
Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	2387	1	1	2382.500	-48.19	/	-26	Pass
2387	2400	1	1	2399.987	-29.05	/	-16	Pass
2483.5	2496.5	1	1	2485.086	-57.12	/	-16	Pass
2496.5	12500	1	1	4803.500	-44.93	/	-26	Pass



2M_2440MHz_Ant1_NTHV



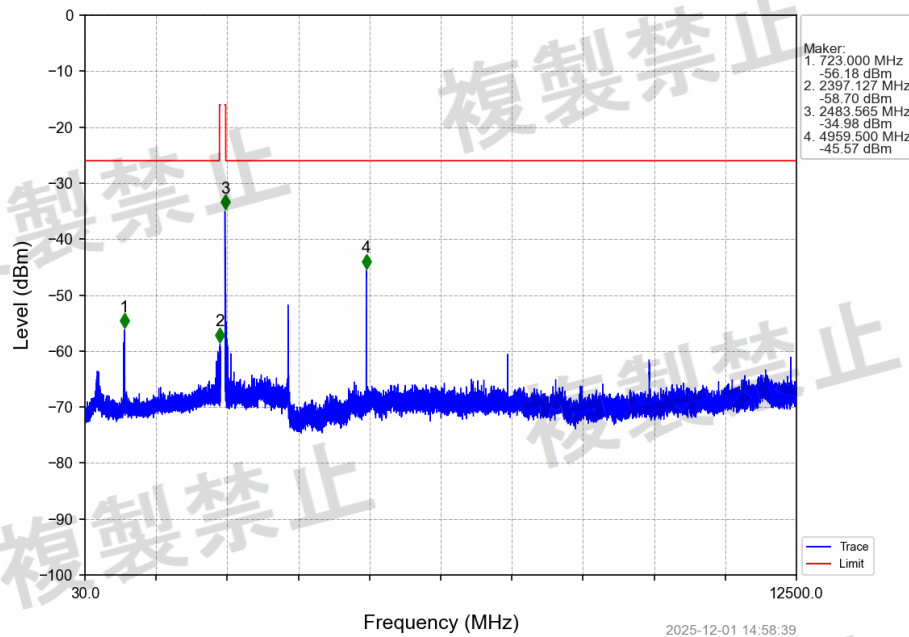
2M_2440MHz_Ant1_NTHV



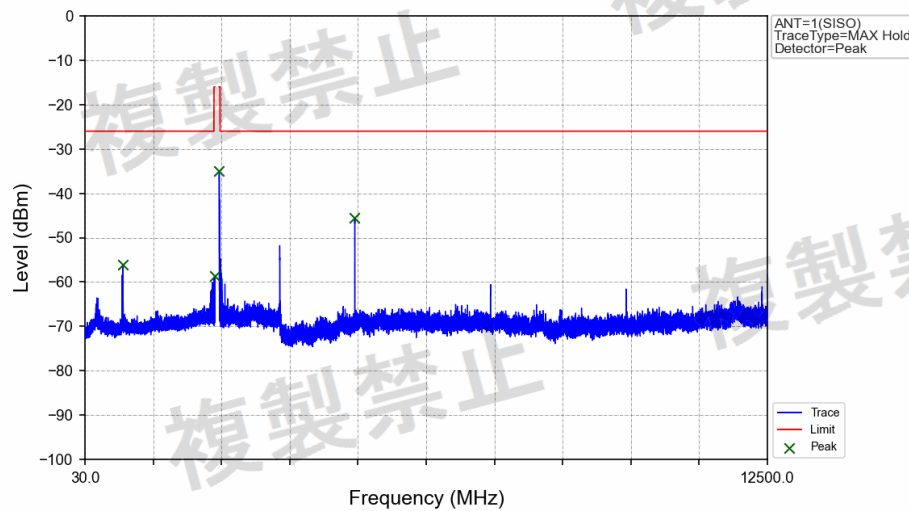
Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	2387	1	1	2365.500	-56.99	/	-26	Pass
2387	2400	1	1	2399.701	-53.15	/	-16	Pass
2483.5	2496.5	1	1	2483.539	-53.36	/	-16	Pass
2496.5	12500	1	1	4881.500	-46.50	/	-26	Pass



2M_2480MHz_Ant1_NTHV



2M_2480MHz_Ant1_NTHV



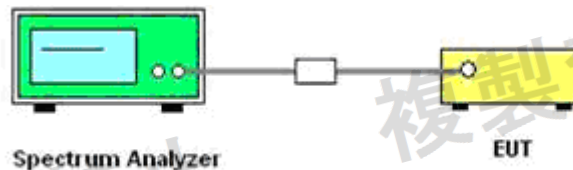
Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	2387	1	1	723.000	-56.18	/	-26	Pass
2387	2400	1	1	2397.127	-58.70	/	-16	Pass
2483.5	2496.5	1	1	2483.565	-34.98	/	-16	Pass
2496.5	12500	1	1	4959.500	-45.57	/	-26	Pass

3.5. Secondary Radiated Emission Strength

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, 4nW 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.

TEST CONFIGURATION



TEST PROCEDURE

The EUT was directly connected to the spectrum analyser and antenna output port as show in the block diagram as TEST CONFIGURATION shows.

EUT Condition: modulation

Spectrum Condition:

Frequency: 30MHz-12.75GHz

RBW: 100 KHz (30MHz-1GHz), 1MHz (1GHz-12.75GHz)

VBW: 100 KHz (30MHz-1GHz), 1MHz (1GHz-12.75GHz)

Sweep time: Auto

Detector mode: Positive peak

Indication mode: max hold

TEST RESULTS

NTNV												
Mode	TX Type	Freq. (MHz)	ANT	Freq. Range		Marker					Limit (nW)	Verdict
				Start (MHz)	Stop (MHz)	Freq. (MHz)	PK Power (dBm)	PK Power (nW)	AV Power (dBm)	AV Power (nW)		
1M	SISO	2402	1	30	1000	477.95	-77.45	0.018	/	/	4	Pass
				1000	12500	11938	-63.14	0.485	/	/	20	Pass
		2440	1	30	1000	202.9	-76.52	0.022	/	/	4	Pass
				1000	12500	3149.5	-63.48	0.449	/	/	20	Pass
		2480	1	30	1000	250.65	-76.82	0.021	/	/	4	Pass
				1000	12500	2809	-63.41	0.456	/	/	20	Pass
2M	SISO	2402	1	30	1000	184.45	-75.81	0.026	/	/	4	Pass
				1000	12500	3102.5	-62.30	0.589	/	/	20	Pass
		2440	1	30	1000	908.6	-77.30	0.019	/	/	4	Pass
				1000	12500	3140	-63.60	0.437	/	/	20	Pass
		2480	1	30	1000	900.25	-77.26	0.019	/	/	4	Pass
				1000	12500	11990	-63.60	0.437	/	/	20	Pass

NTLV												
Mode	TX Type	Freq. (MHz)	ANT	Freq. Range		Marker					Limit (nW)	Verdict
				Start (MHz)	Stop (MHz)	Freq. (MHz)	PK Power (dBm)	PK Power (nW)	AV Power (dBm)	AV Power (nW)		
1M	SISO	2402	1	30	1000	197.3	-76.03	0.025	/	/	4	Pass
				1000	12500	3008.5	-63.36	0.461	/	/	20	Pass
		2440	1	30	1000	202.5	-77.31	0.019	/	/	4	Pass
				1000	12500	3120.5	-63.11	0.489	/	/	20	Pass
		2480	1	30	1000	180	-76.91	0.020	/	/	4	Pass
				1000	12500	11963	-63.37	0.460	/	/	20	Pass
2M	SISO	2402	1	30	1000	173.05	-76.26	0.024	/	/	4	Pass



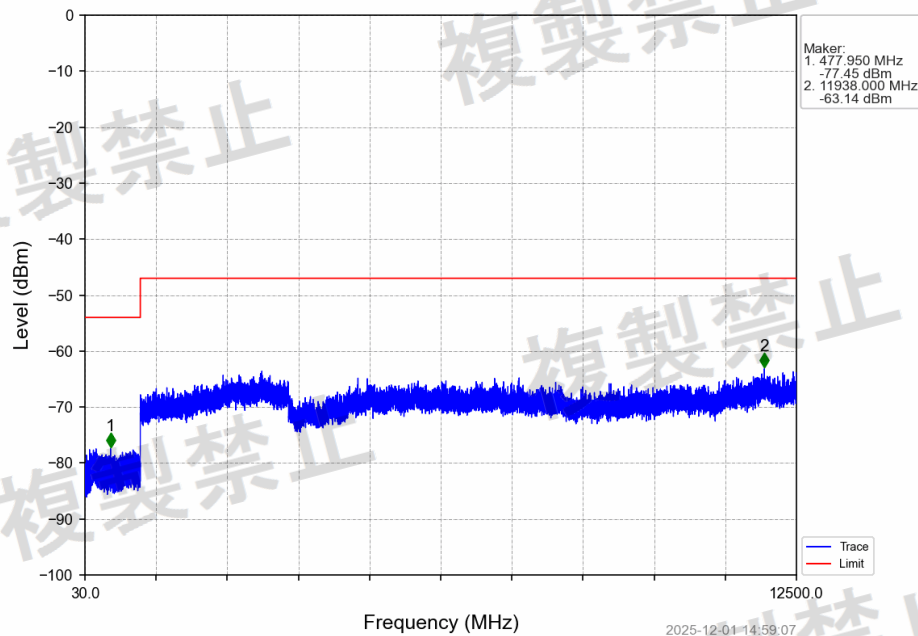
	2440	1	1000	12500	2746.5	-62.97	0.505	/	/	20	Pass
			30	1000	198.55	-76.91	0.020	/	/	4	Pass
			1000	12500	11987	-63.49	0.448	/	/	20	Pass
	2480	1	30	1000	975	-76.59	0.022	/	/	4	Pass
			1000	12500	11890	-62.98	0.504	/	/	20	Pass

NTHV												
Mode	TX Type	Freq. (MHz)	ANT	Freq. Range		Marker					Limit (nW)	Verdict
				Start (MHz)	Stop (MHz)	Freq. (MHz)	PK Power (dBm)	PK Power (nW)	AV Power (dBm)	AV Power (nW)		
1M	SISO	2402	1	30	1000	903.9	-76.53	0.022	/	/	4	Pass
				1000	12500	12020.5	-62.34	0.583	/	/	20	Pass
		2440	1	30	1000	110	-76.41	0.023	/	/	4	Pass
				1000	12500	2646.5	-63.56	0.441	/	/	20	Pass
		2480	1	30	1000	198.3	-74.73	0.034	/	/	4	Pass
				1000	12500	3115.5	-63.54	0.443	/	/	20	Pass
2M	SISO	2402	1	30	1000	838.4	-76.64	0.022	/	/	4	Pass
				1000	12500	11824	-63.48	0.449	/	/	20	Pass
		2440	1	30	1000	850.8	-76.77	0.021	/	/	4	Pass
				1000	12500	11898	-63.52	0.445	/	/	20	Pass
		2480	1	30	1000	933.9	-77.43	0.018	/	/	4	Pass
				1000	12500	3097.5	-63.31	0.467	/	/	20	Pass

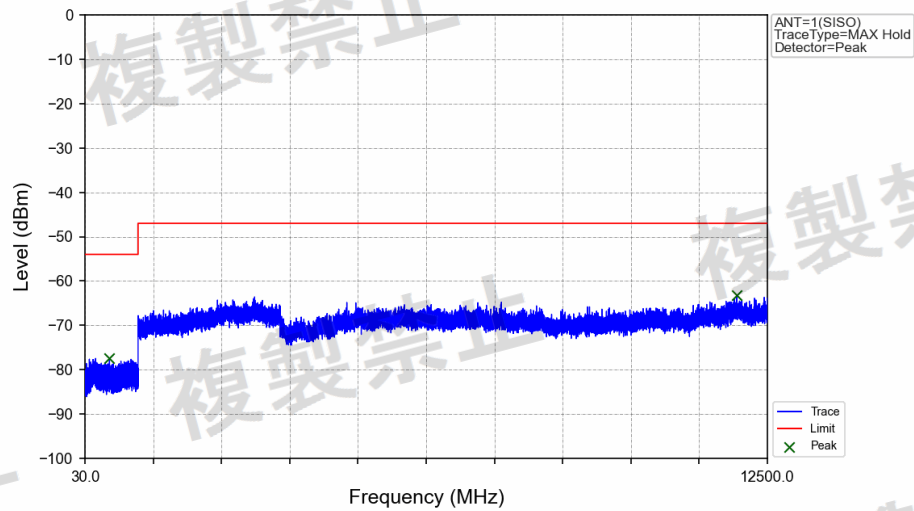


RxSe_NTNV

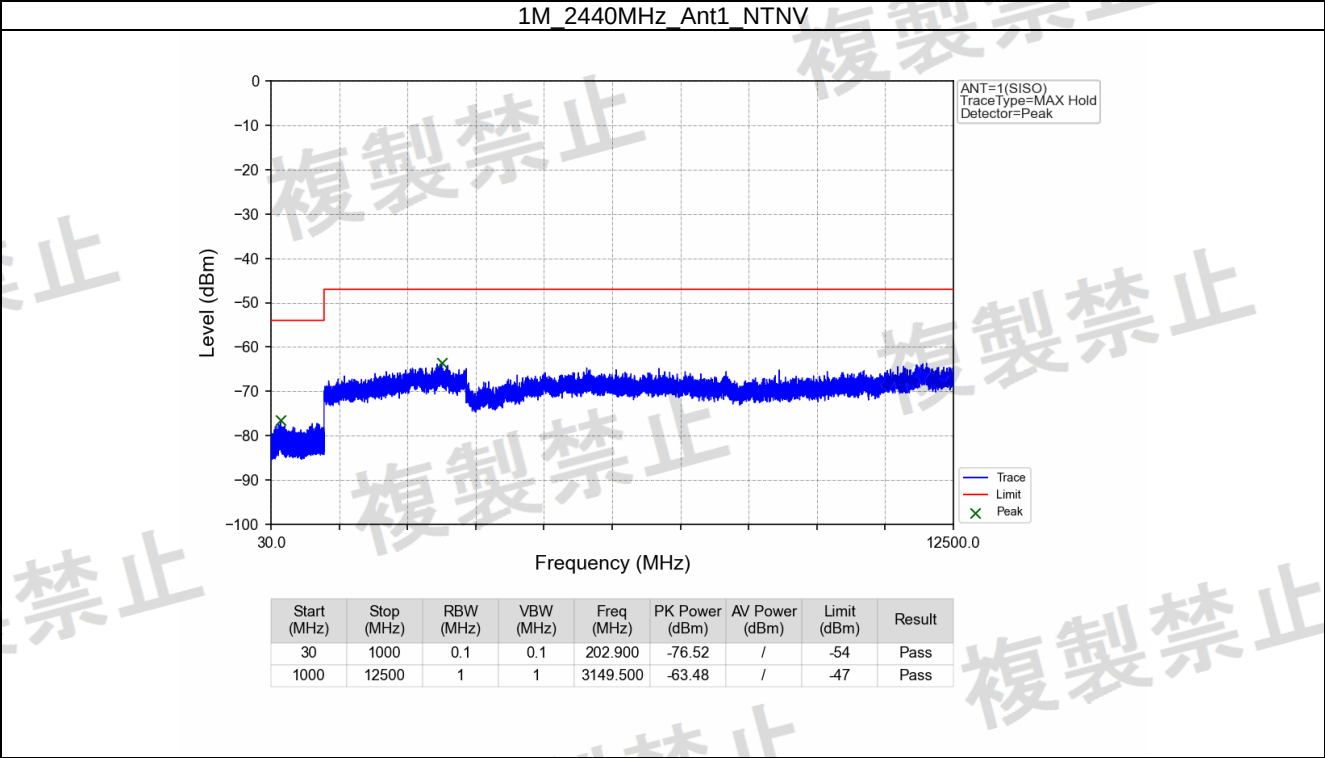
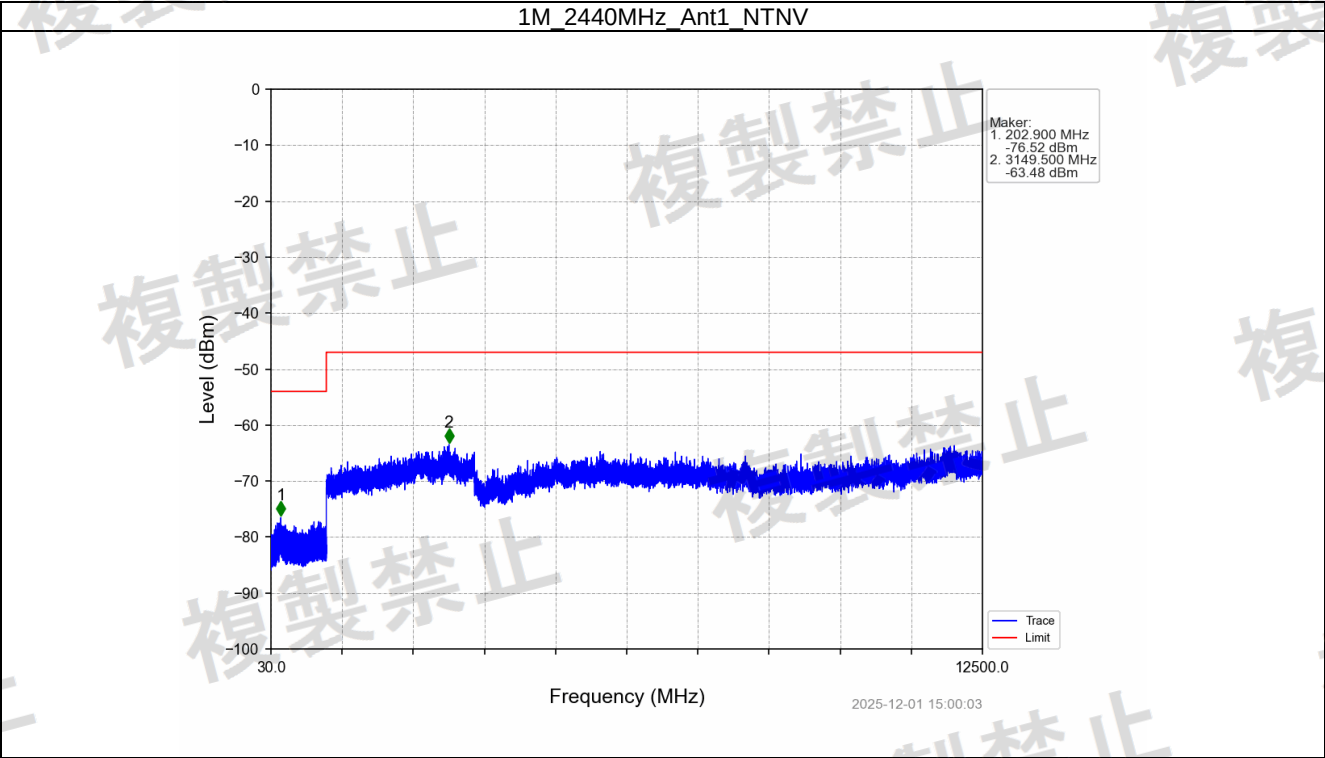
1M 2402MHz_Ant1_NTNV

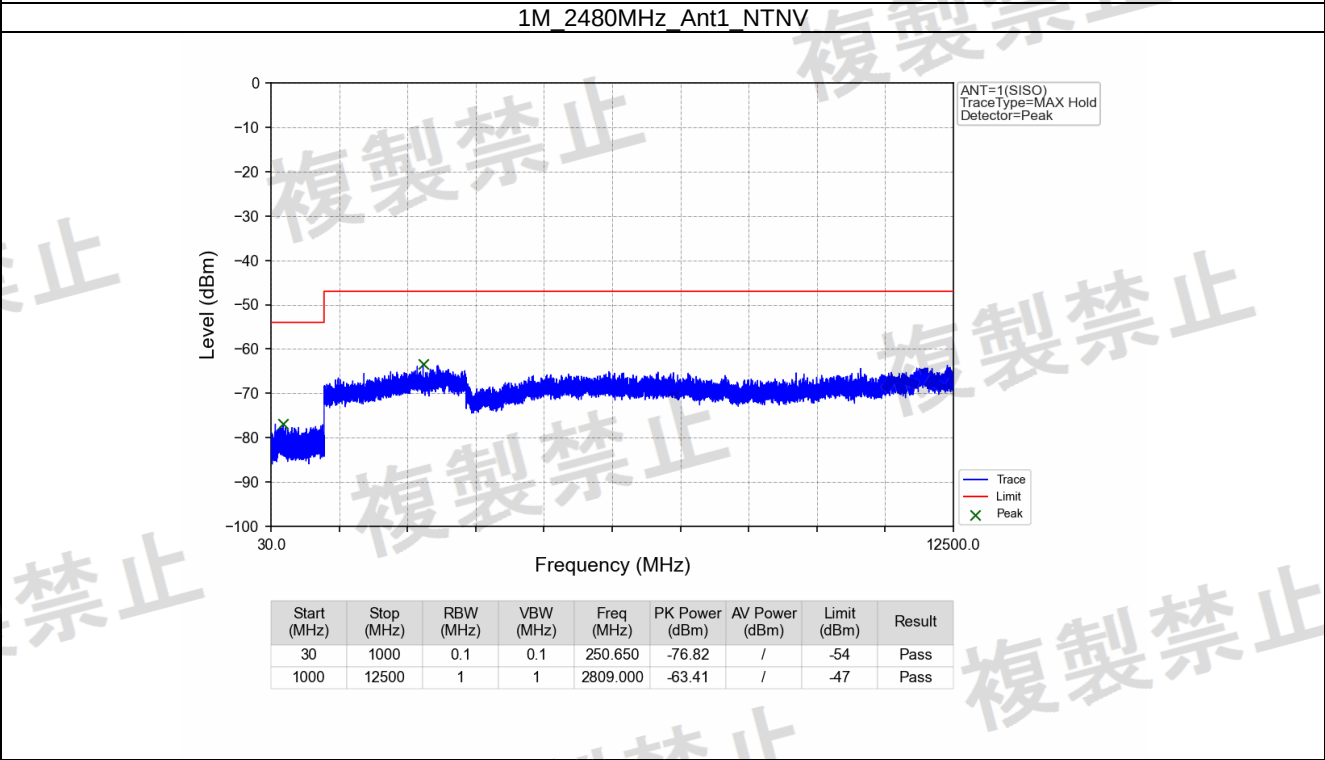
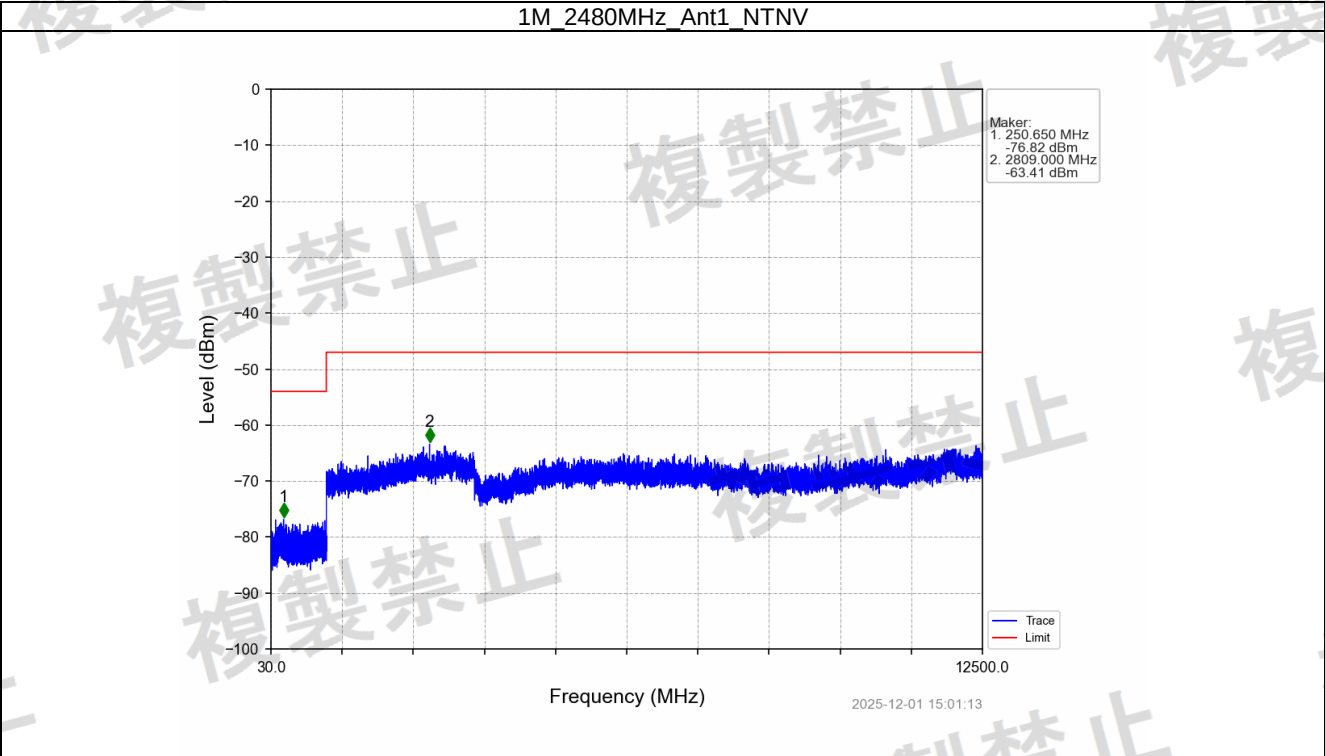


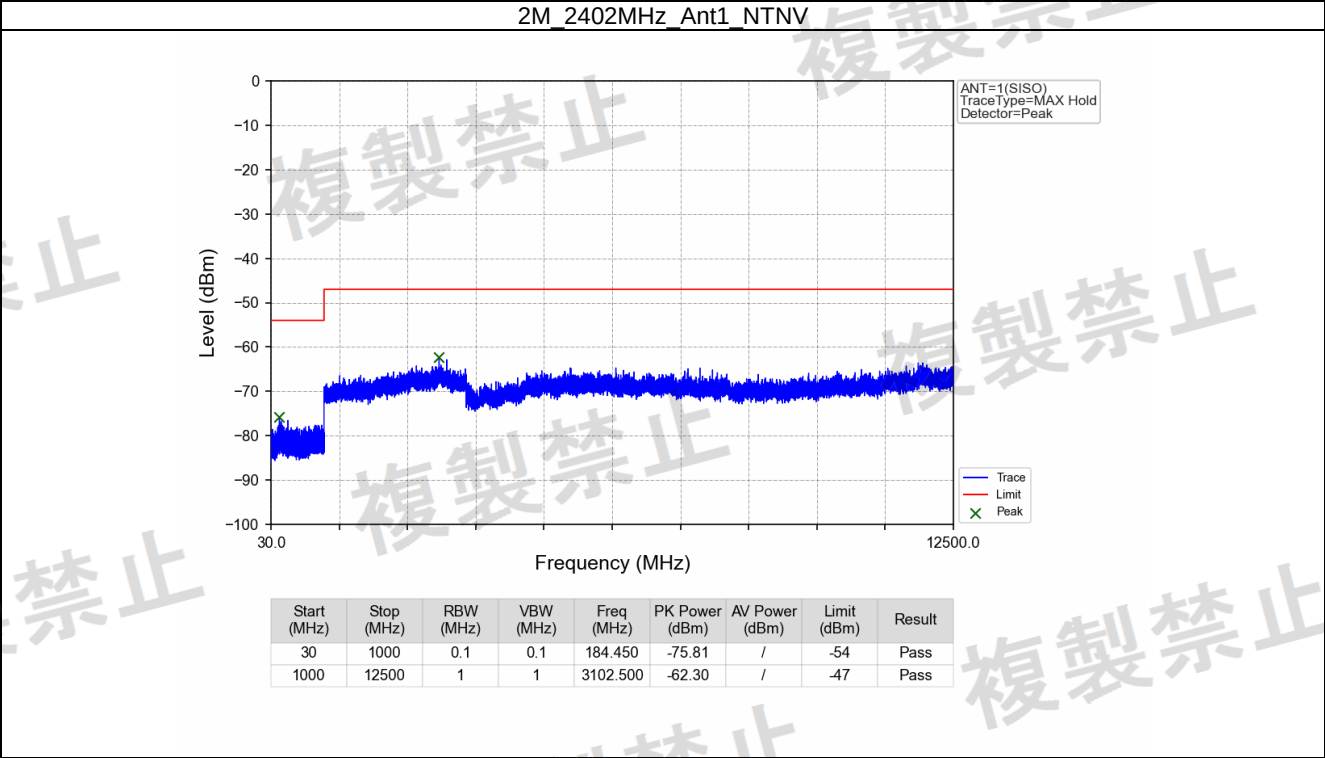
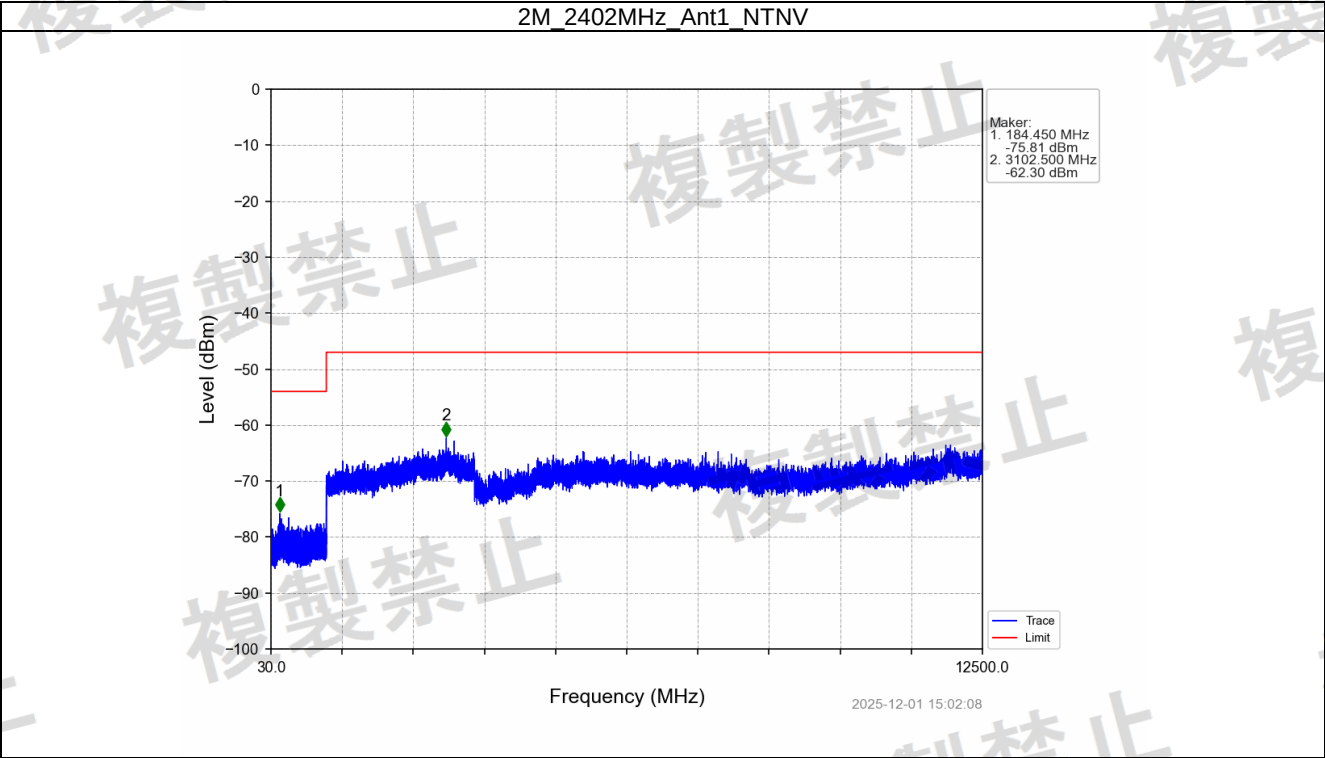
1M 2402MHz_Ant1_NTNV

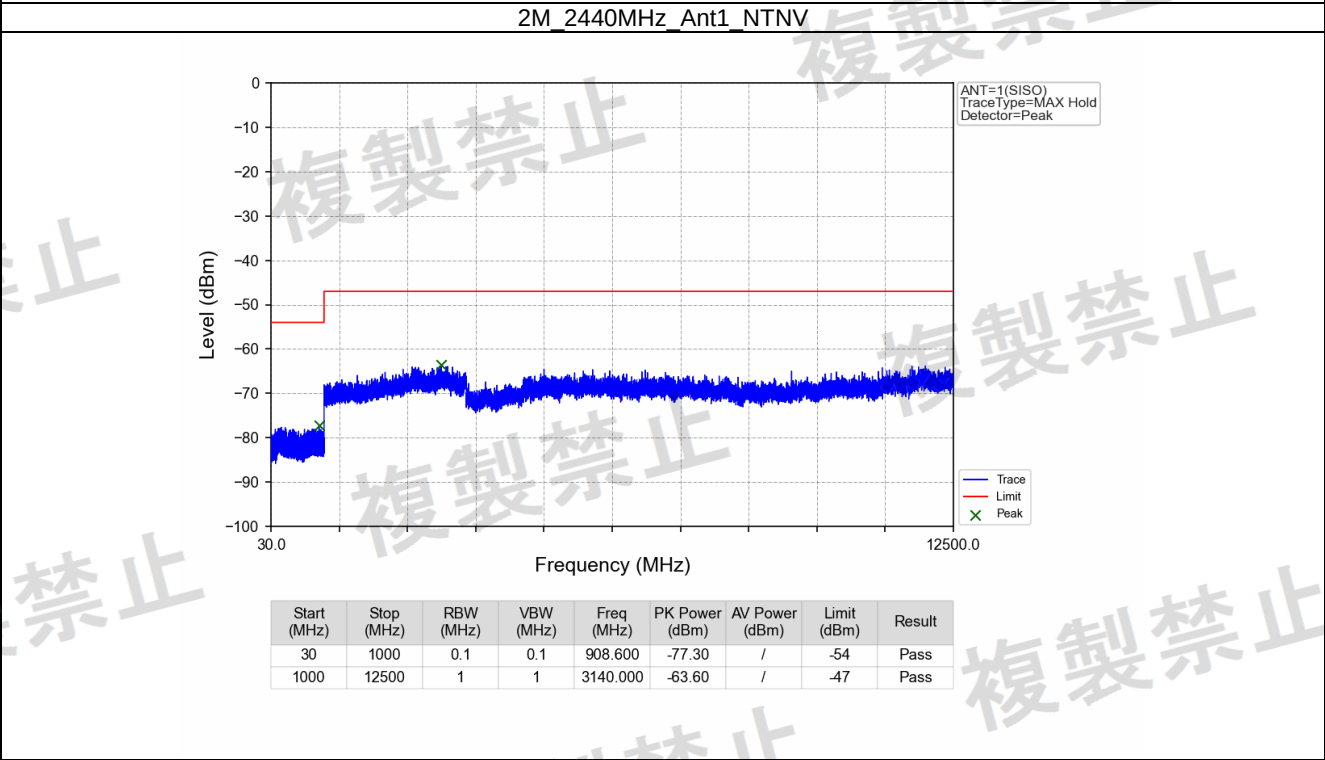
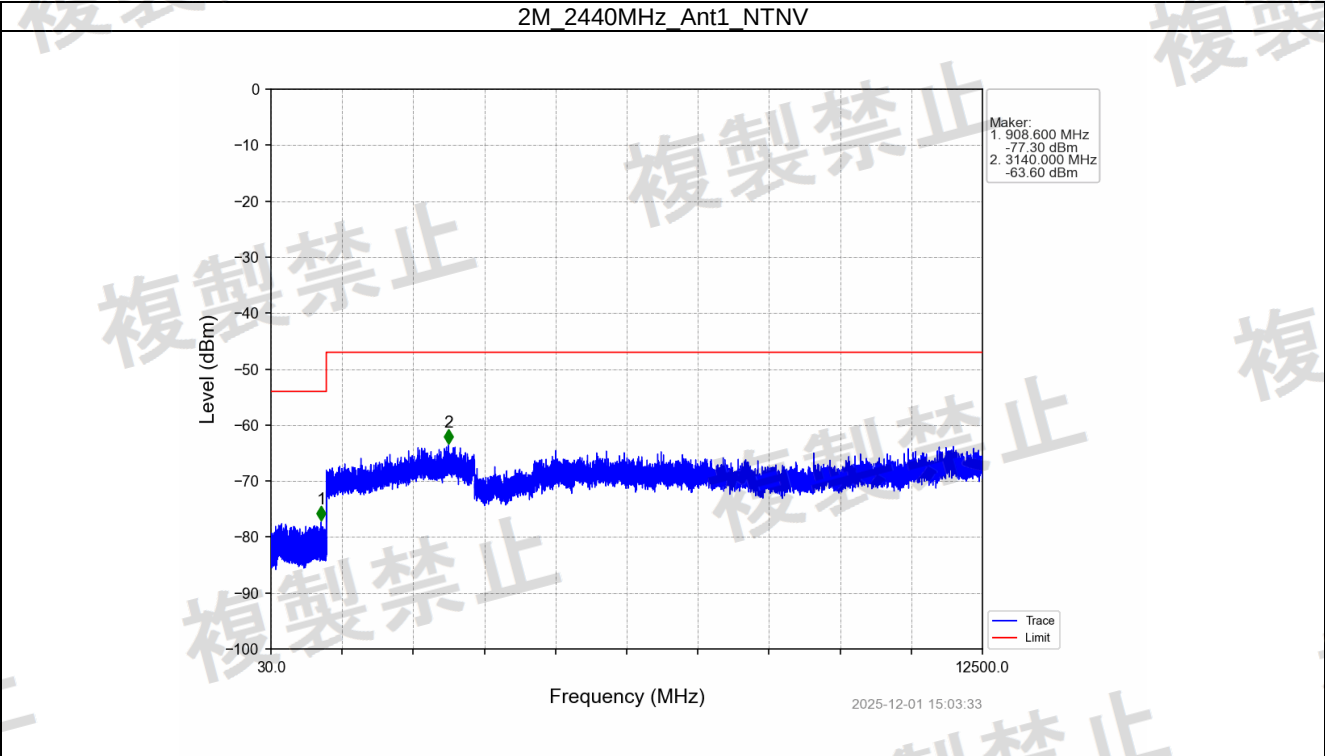


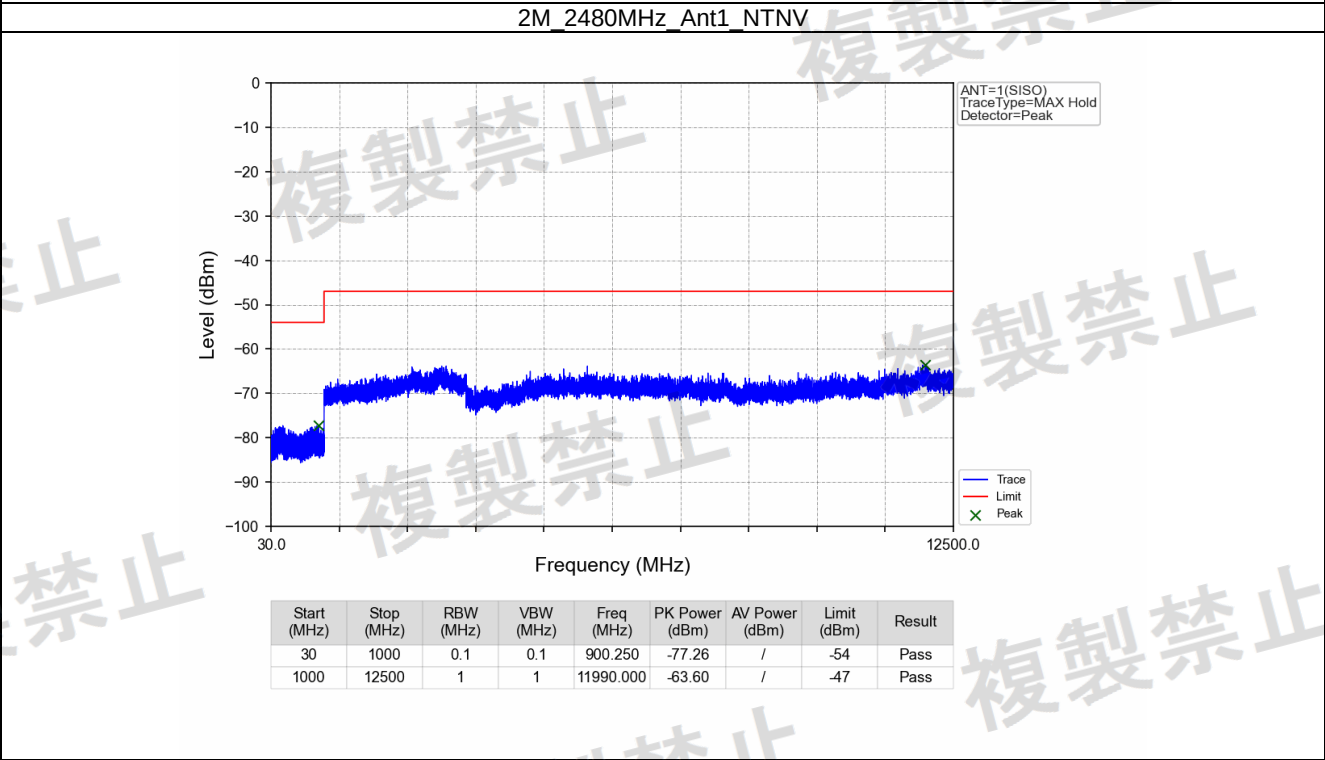
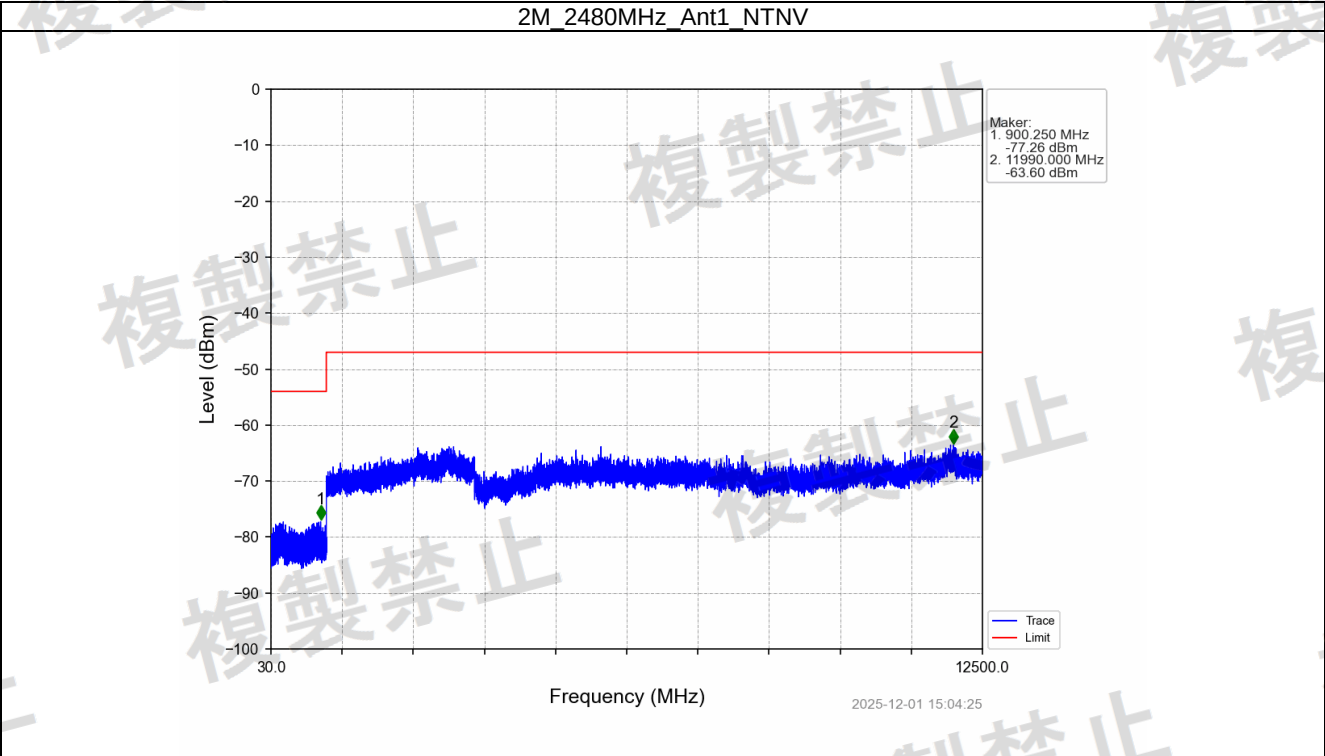
Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	1000	0.1	0.1	477.950	-77.45	/	-54	Pass
1000	12500	1	1	11938.000	-63.14	/	-47	Pass







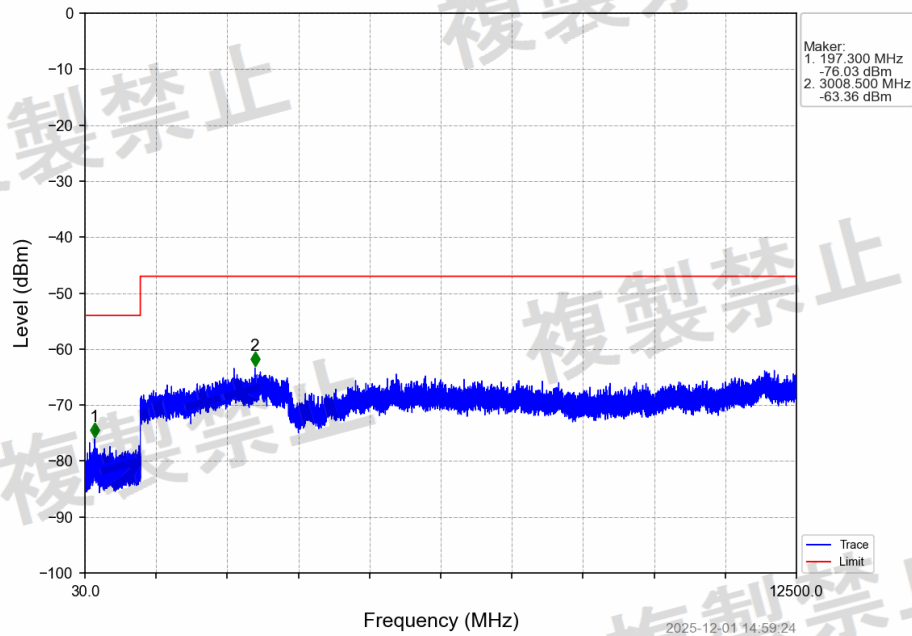




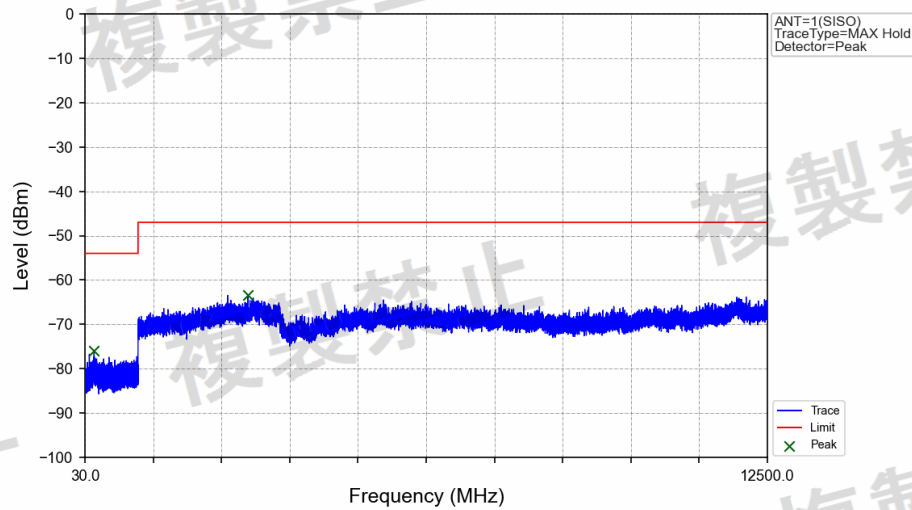


RxSe_NTLV

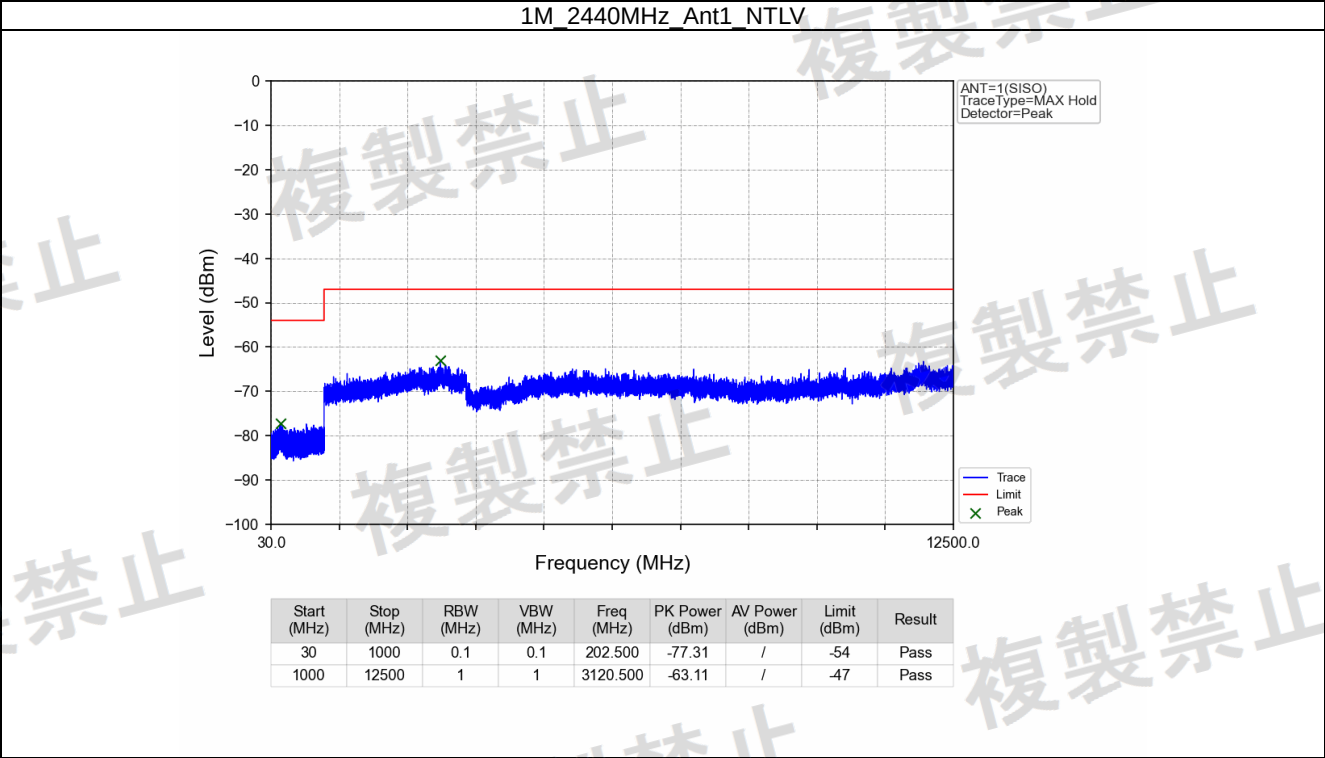
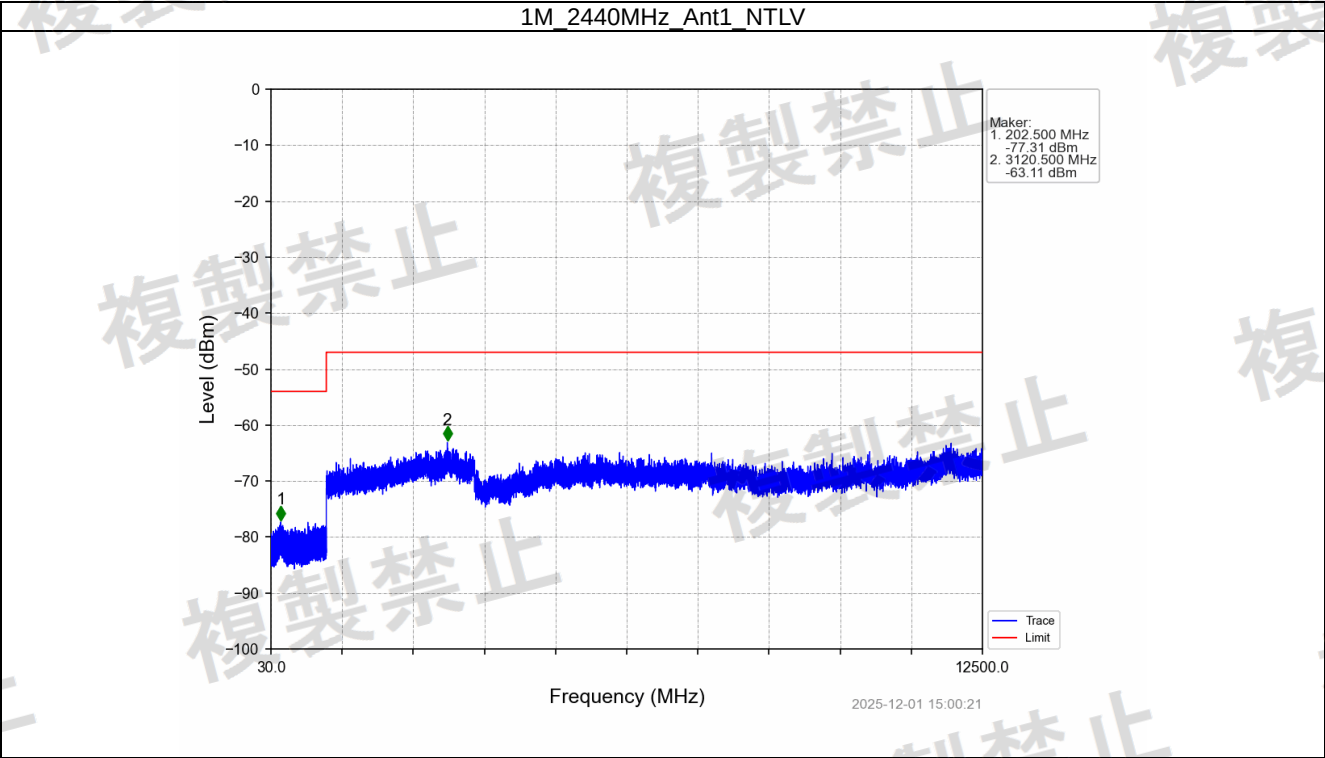
1M_2402MHz_Ant1_NTLV

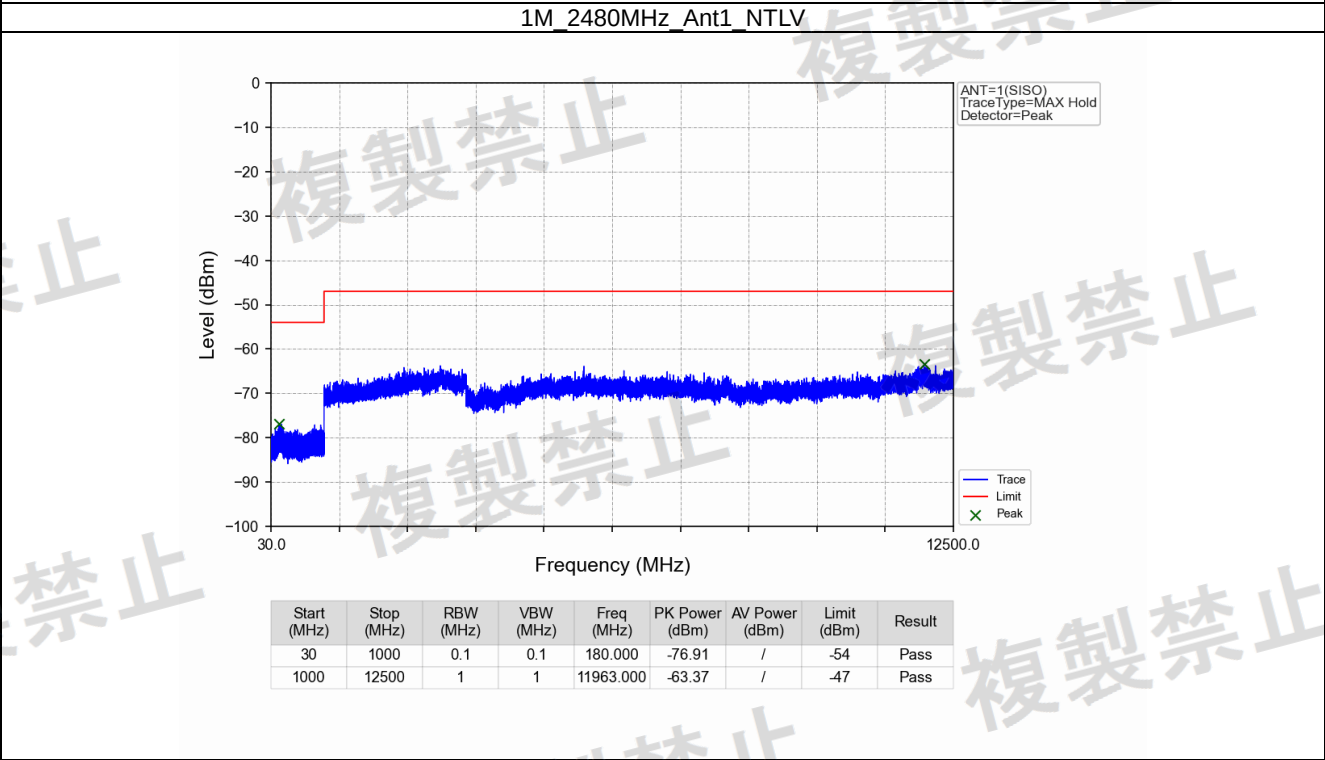
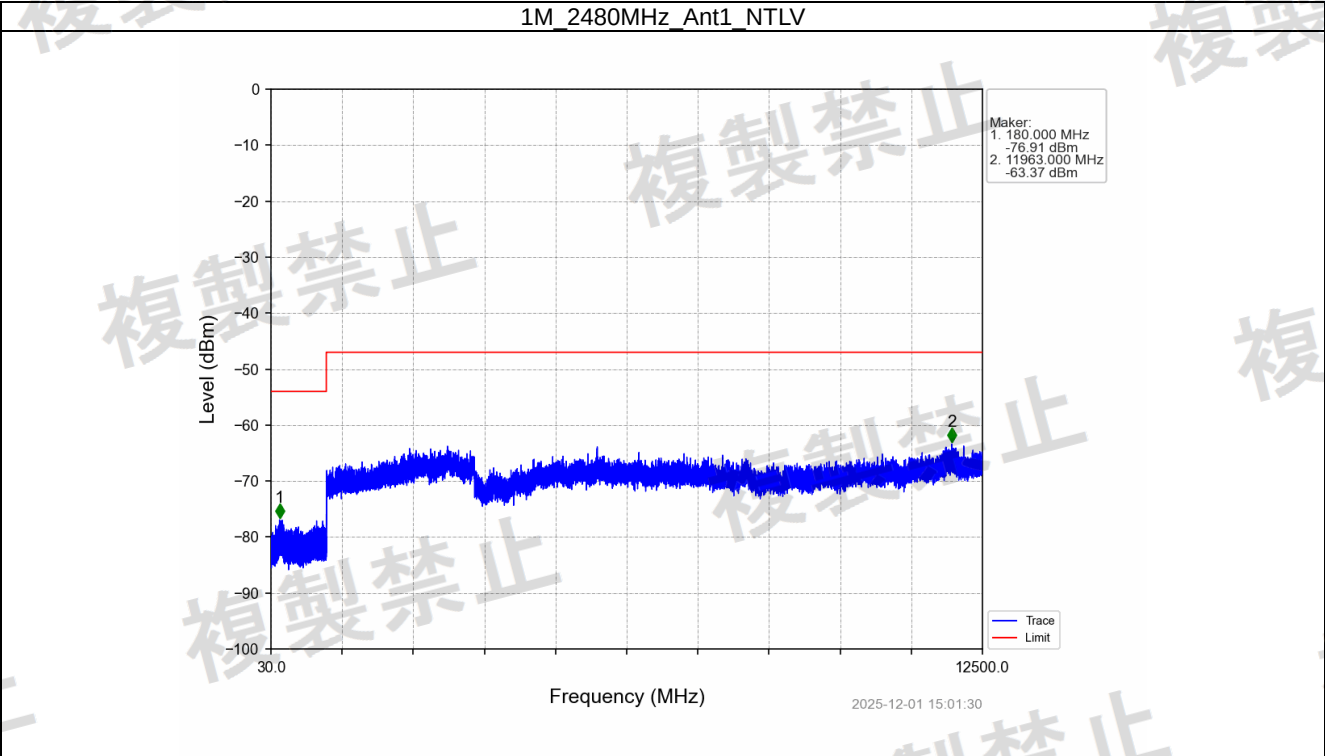


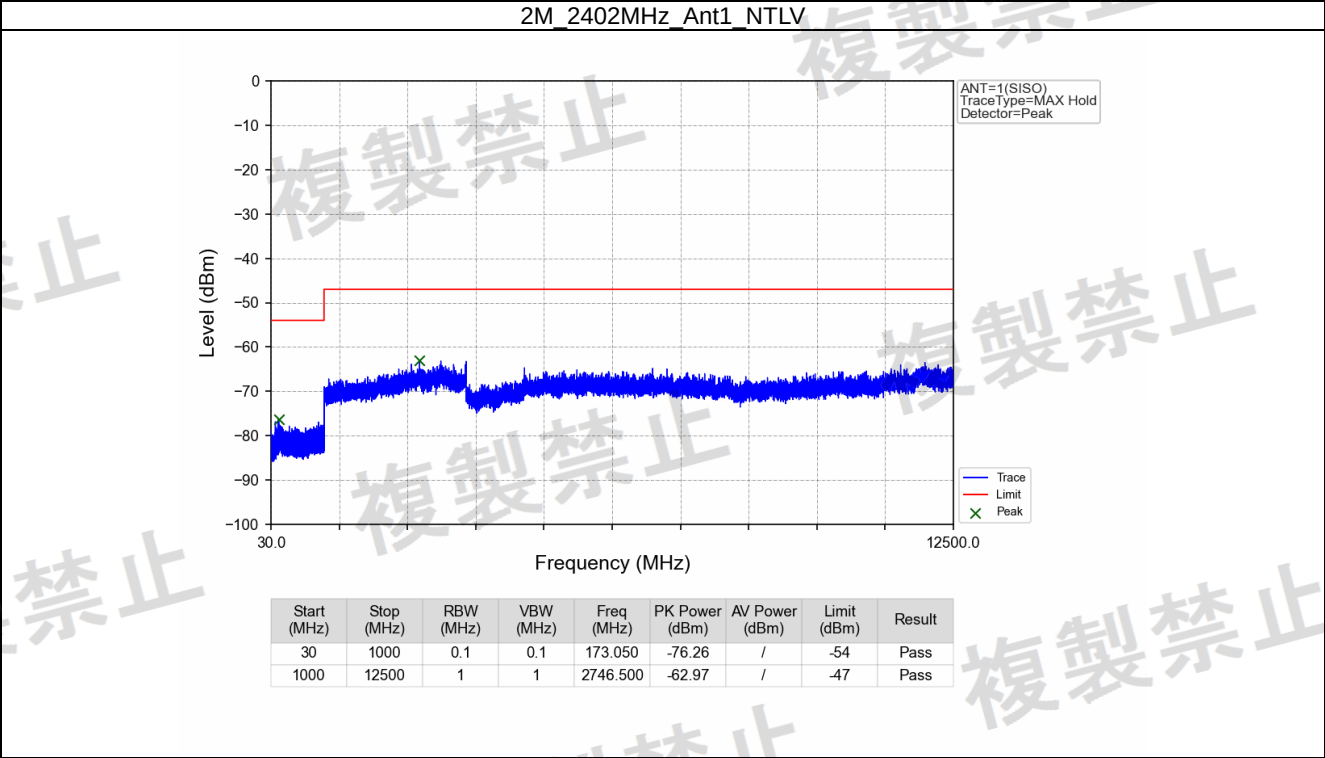
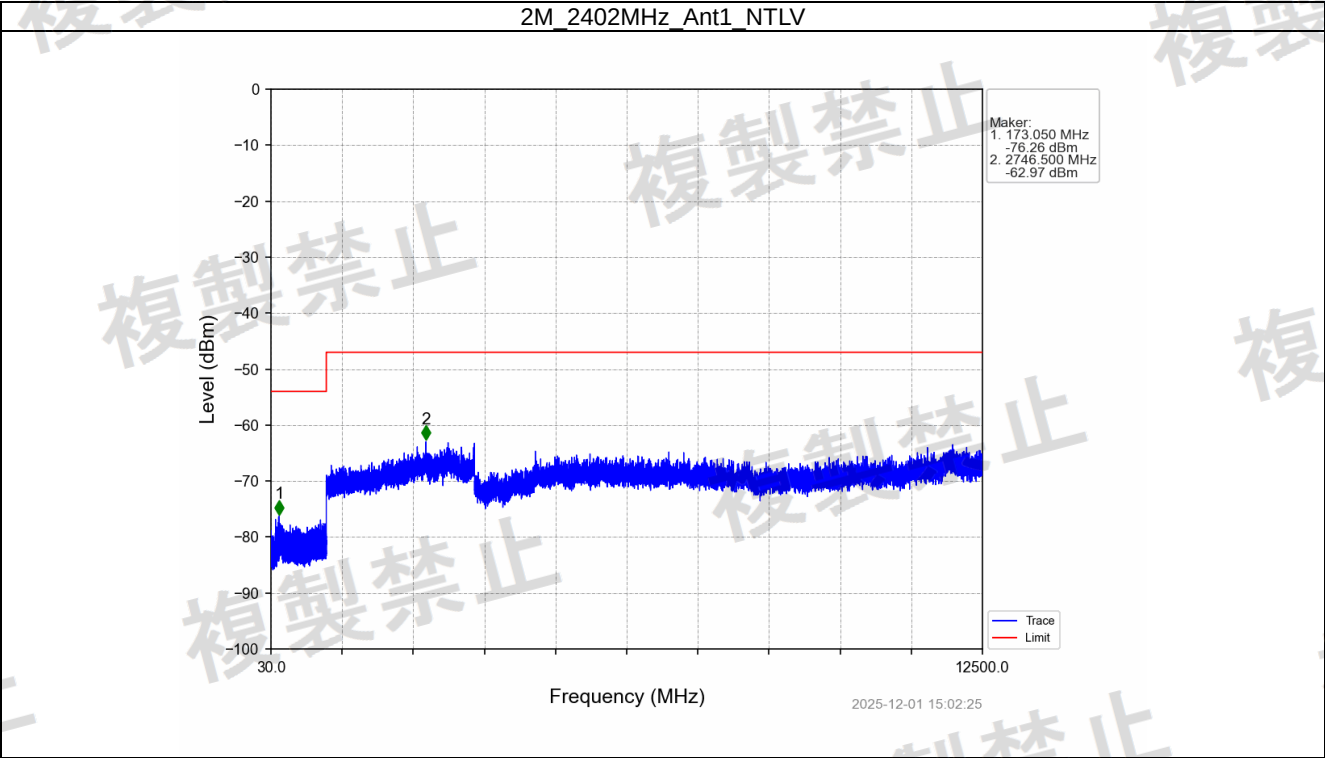
1M_2402MHz_Ant1_NTLV

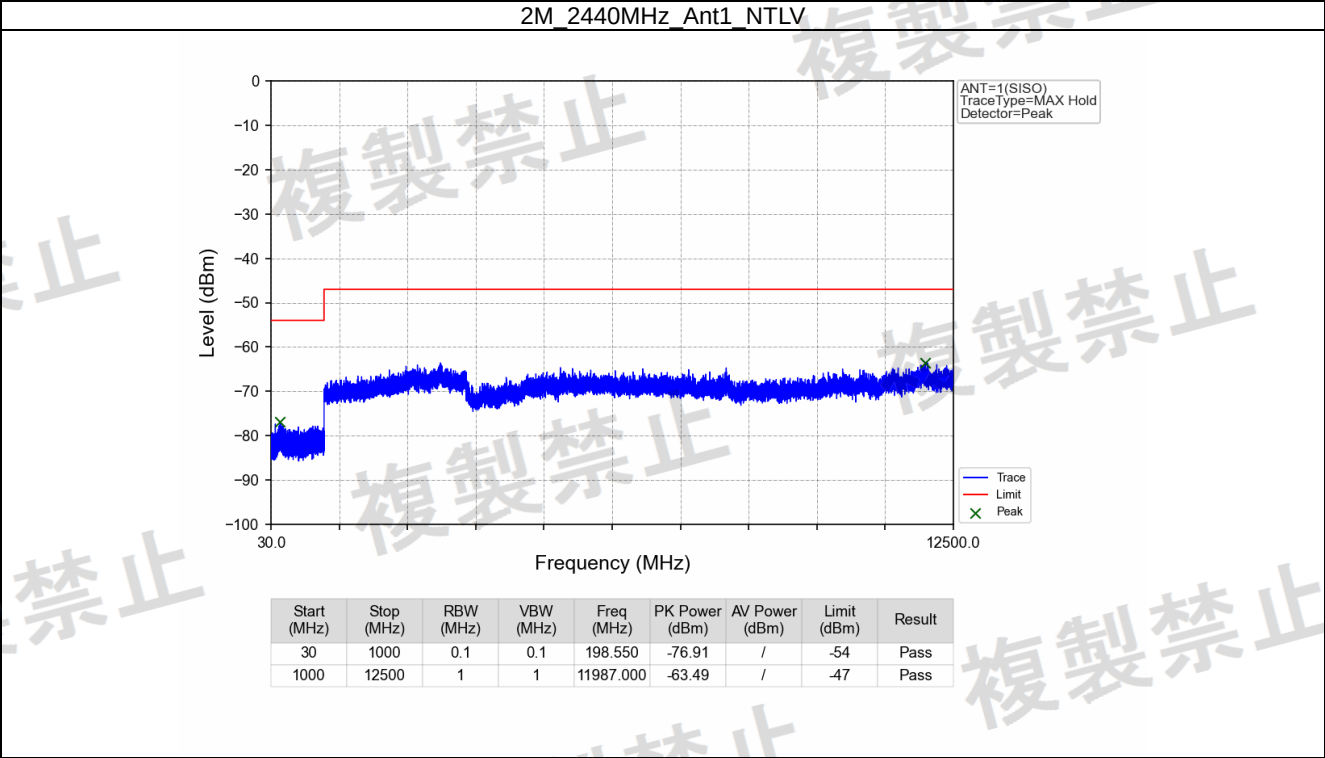
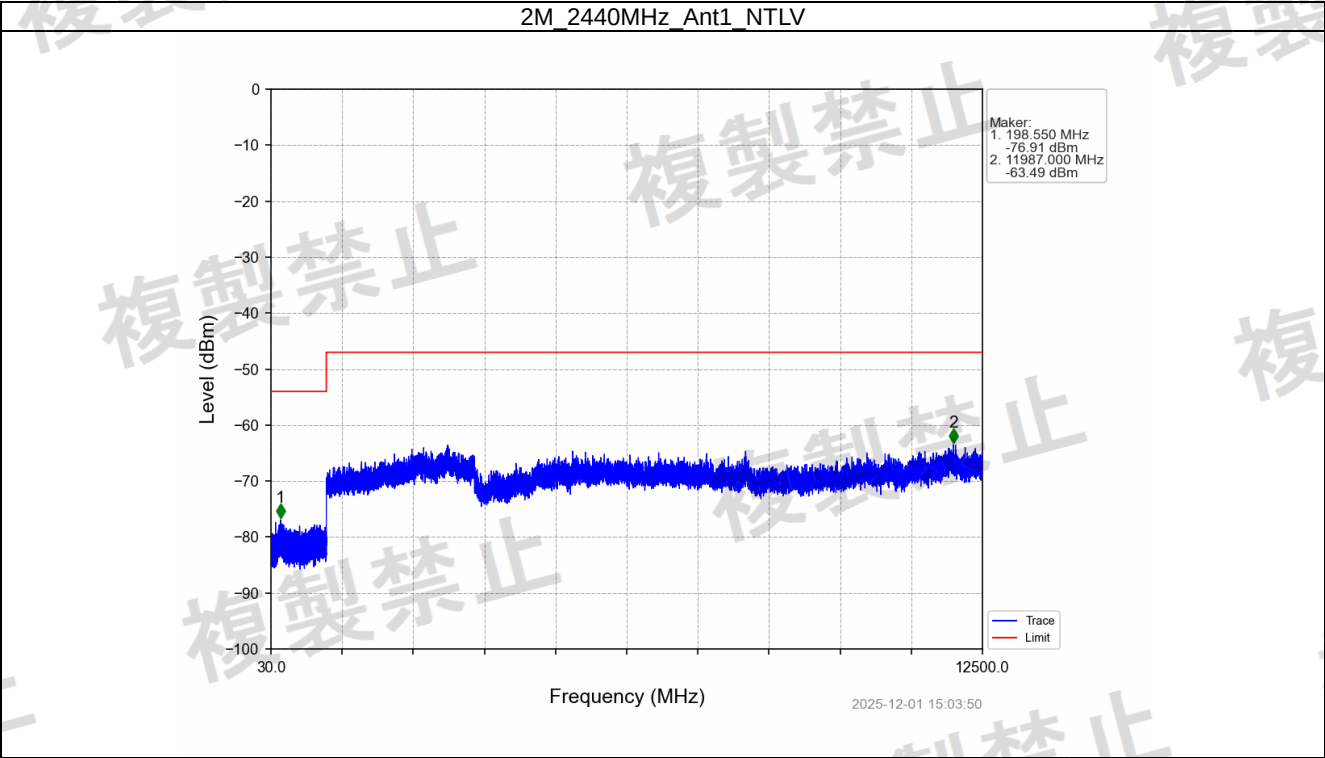


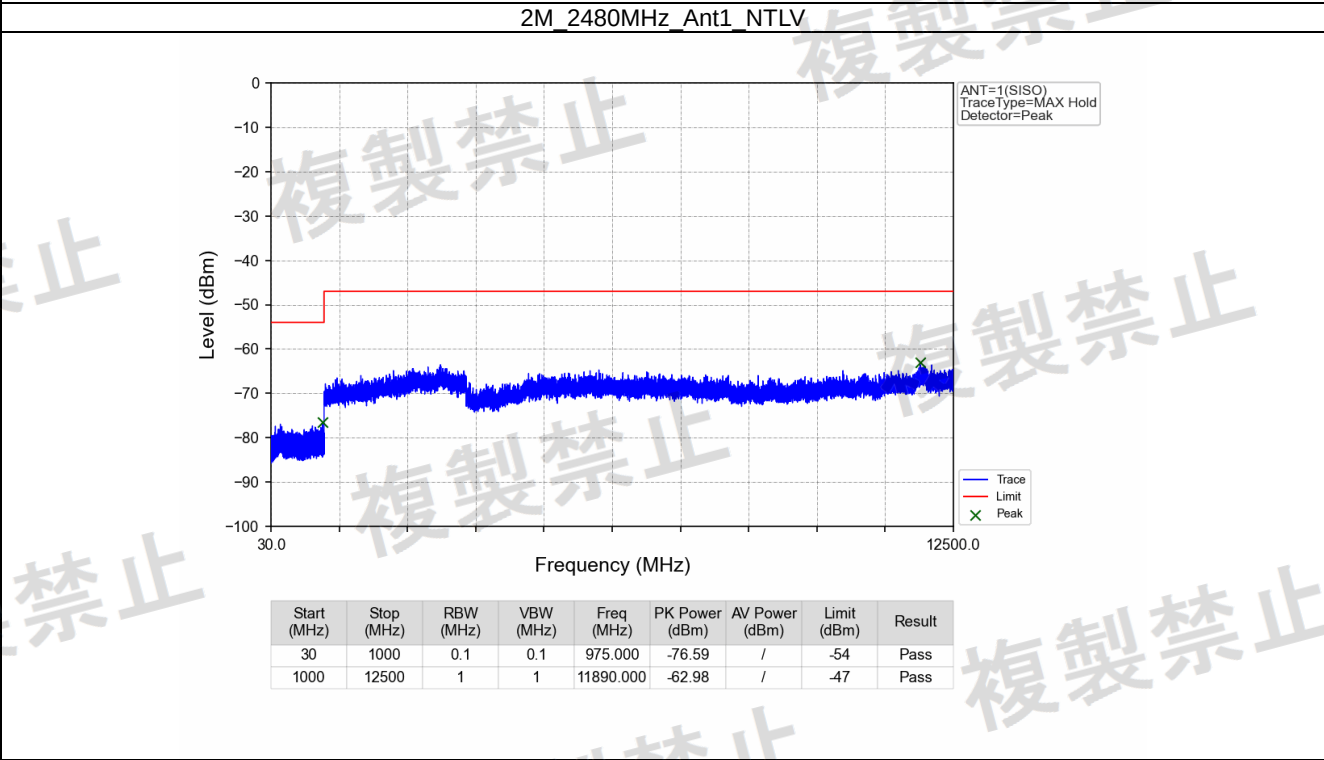
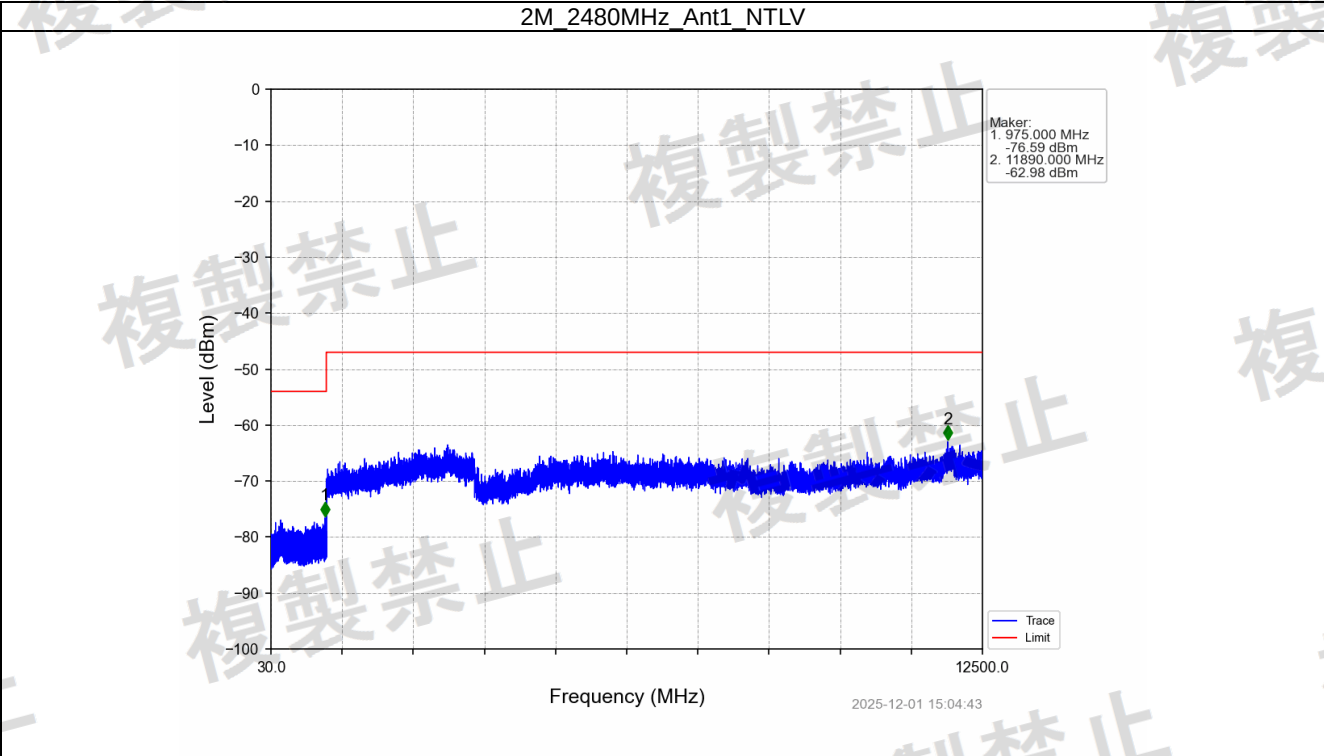
Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	1000	0.1	0.1	197.300	-76.03	/	-54	Pass
1000	12500	1	1	3008.500	-63.36	/	-47	Pass





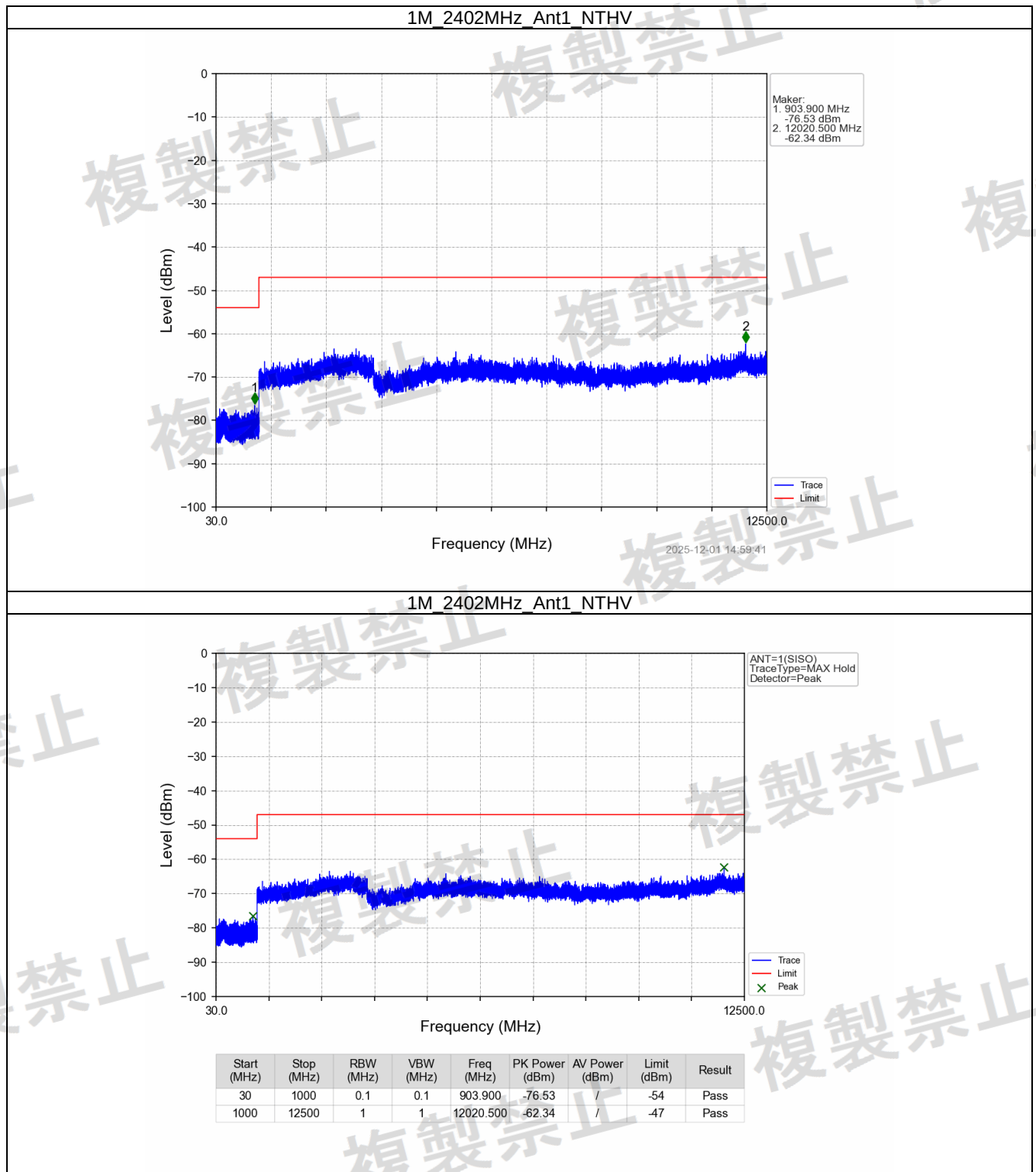


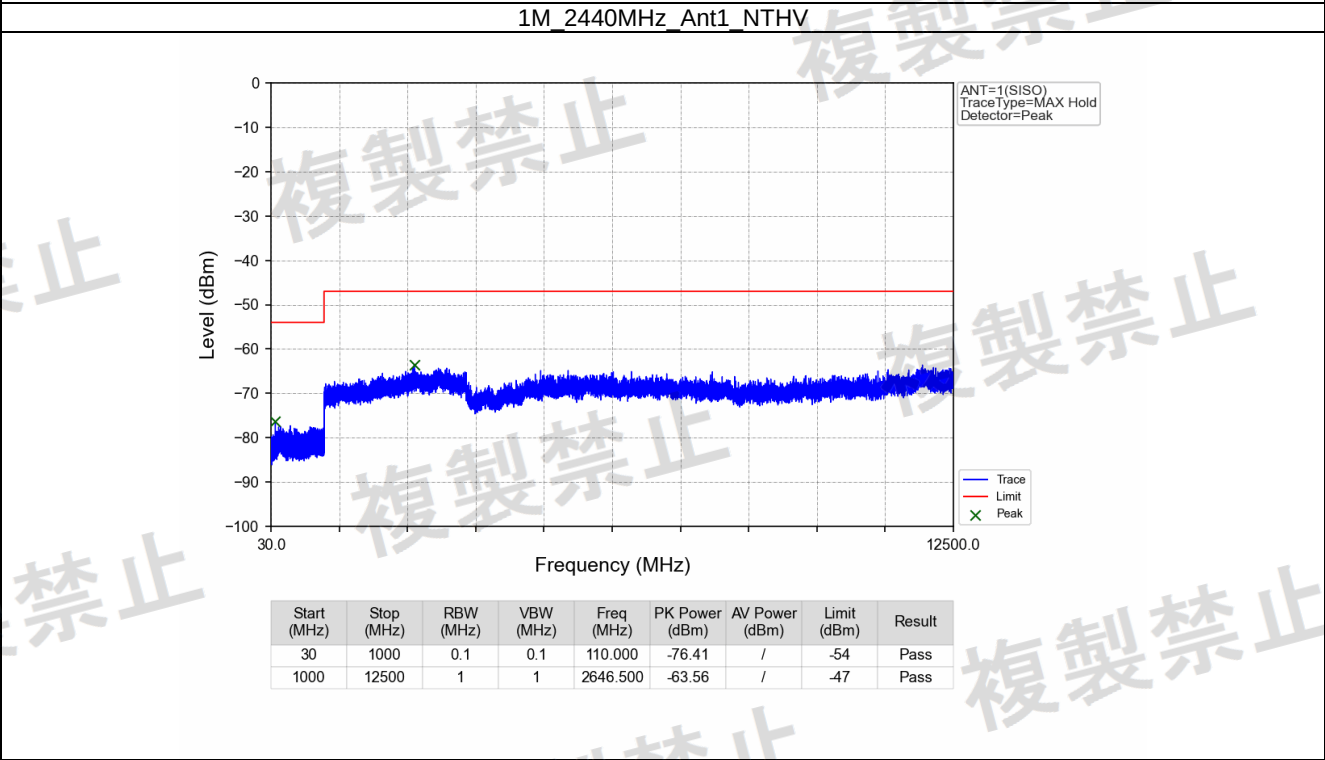
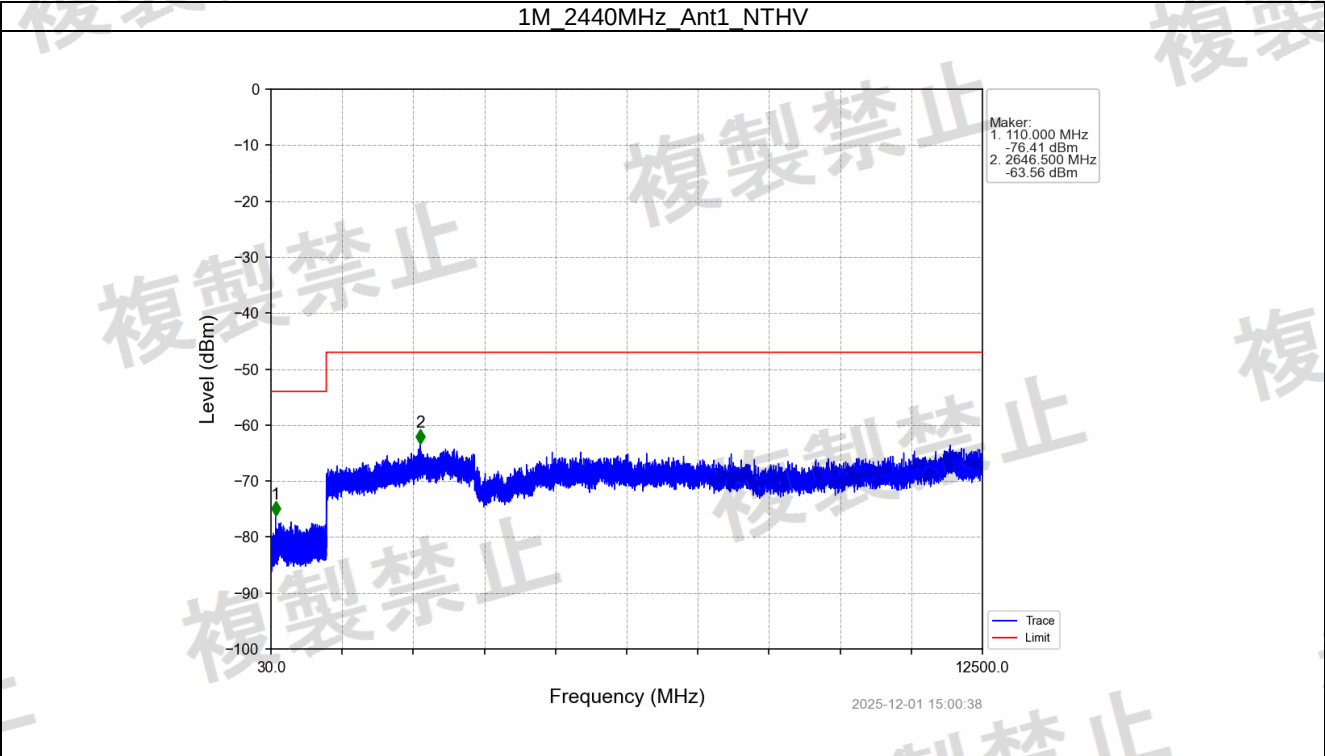


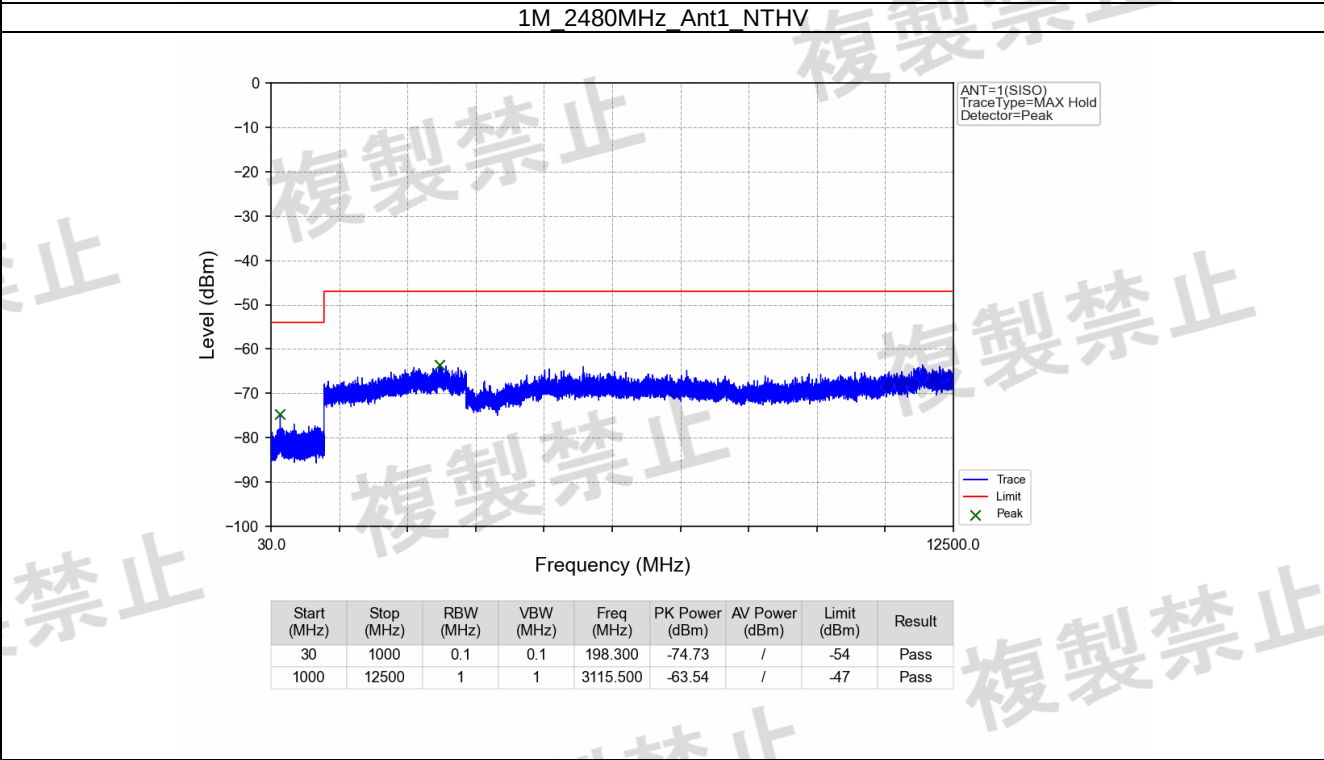
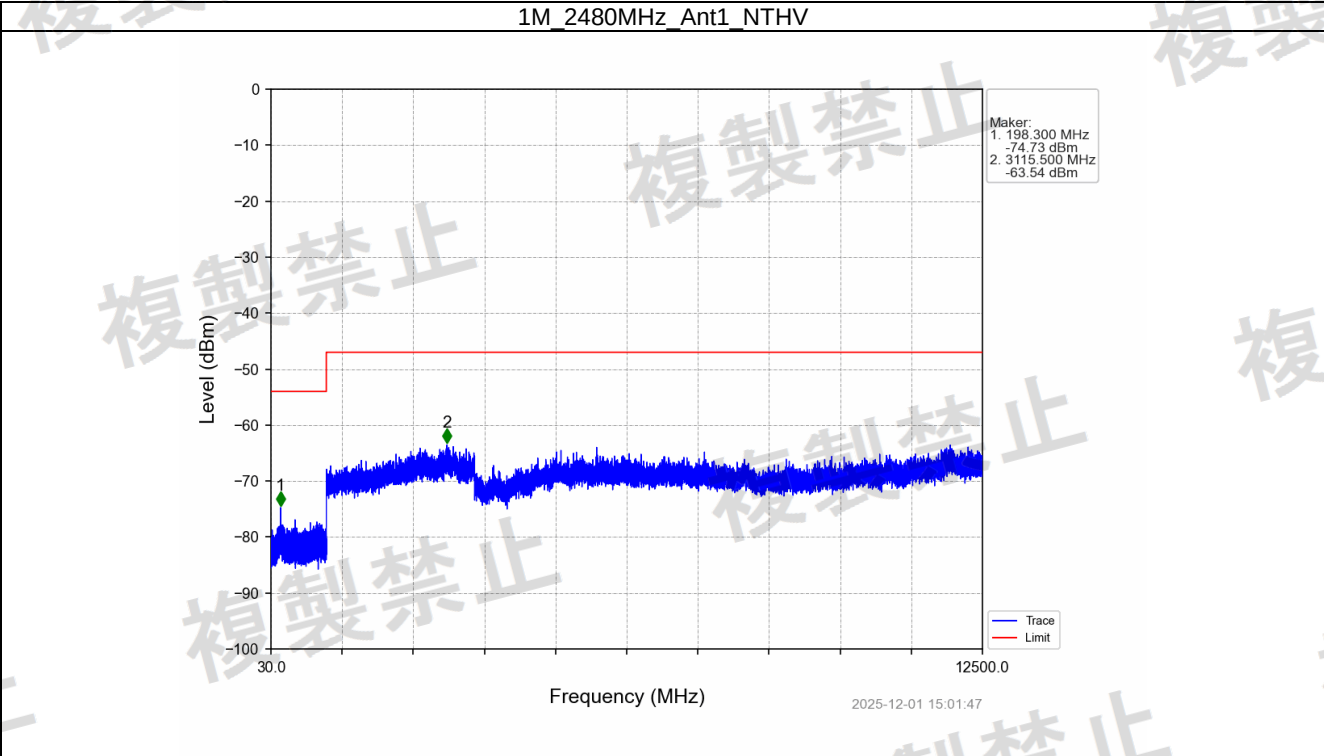




RxSe_NTHV

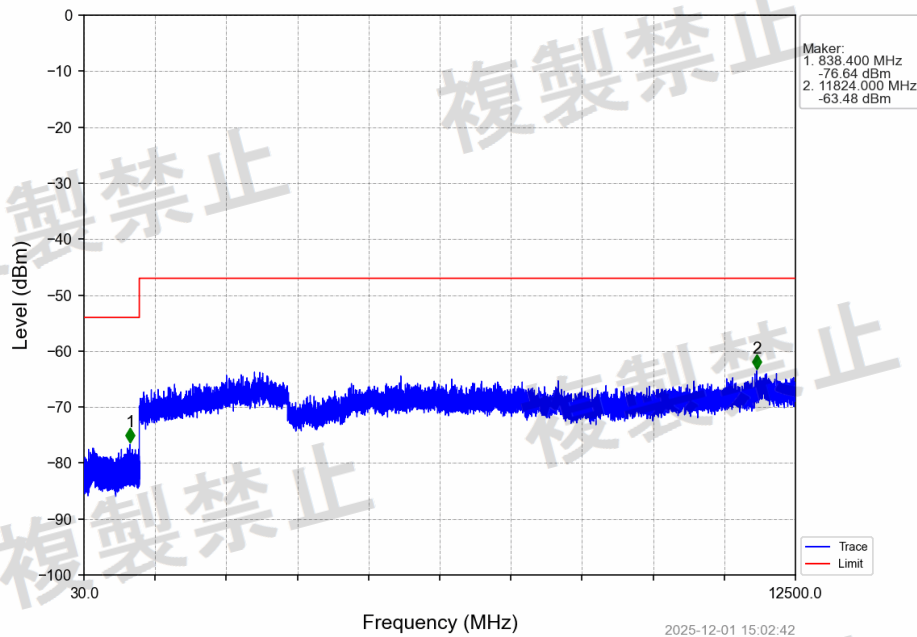




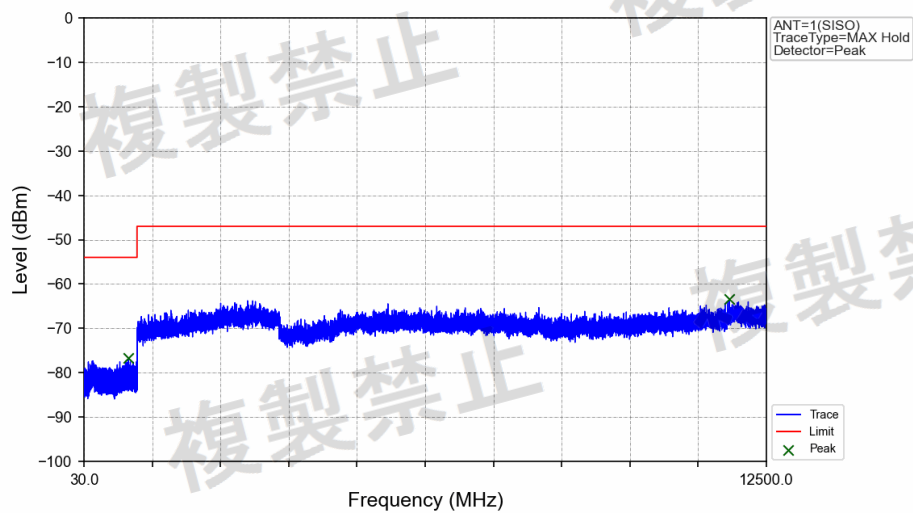




2M_2402MHz_Ant1_NTHV



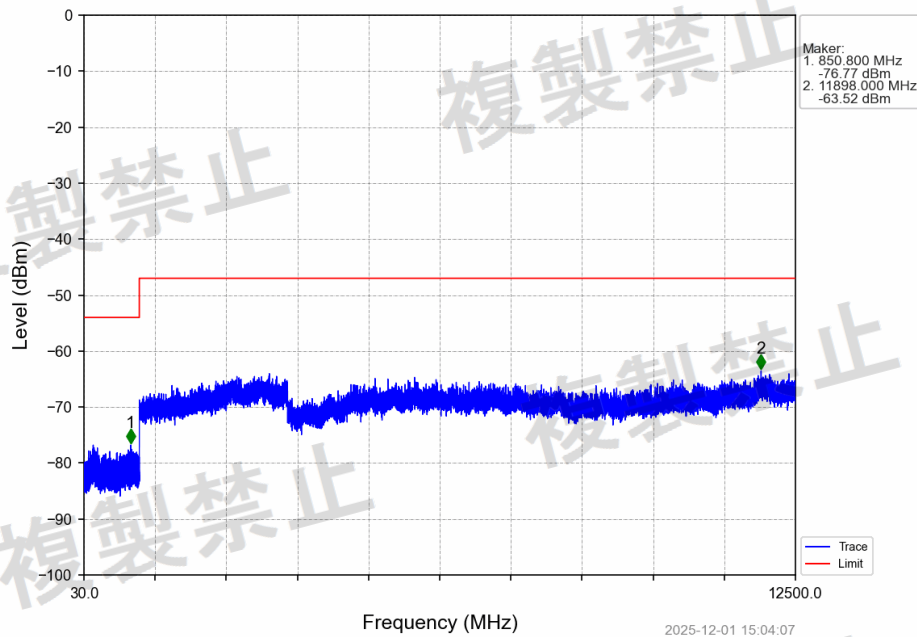
2M_2402MHz_Ant1_NTHV



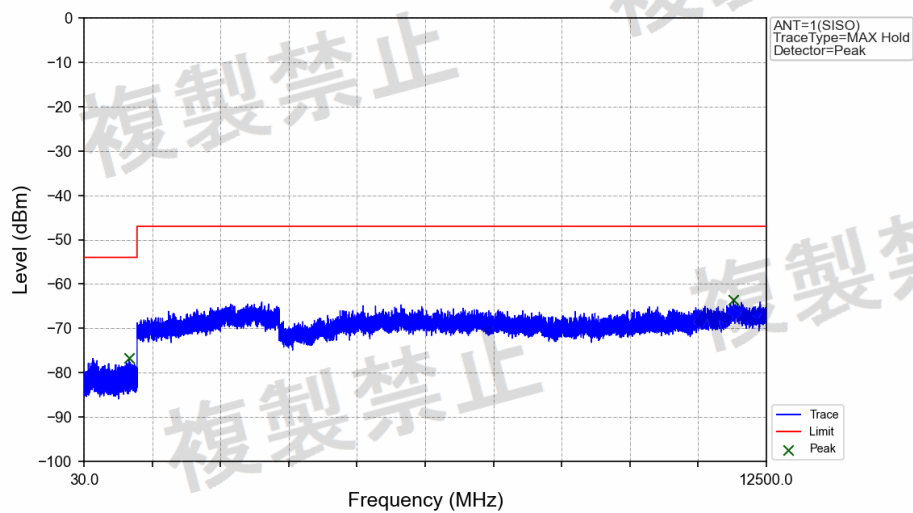
Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	1000	0.1	0.1	838.400	-76.64	/	-54	Pass
1000	12500	1	1	11824.000	-63.48	/	-47	Pass



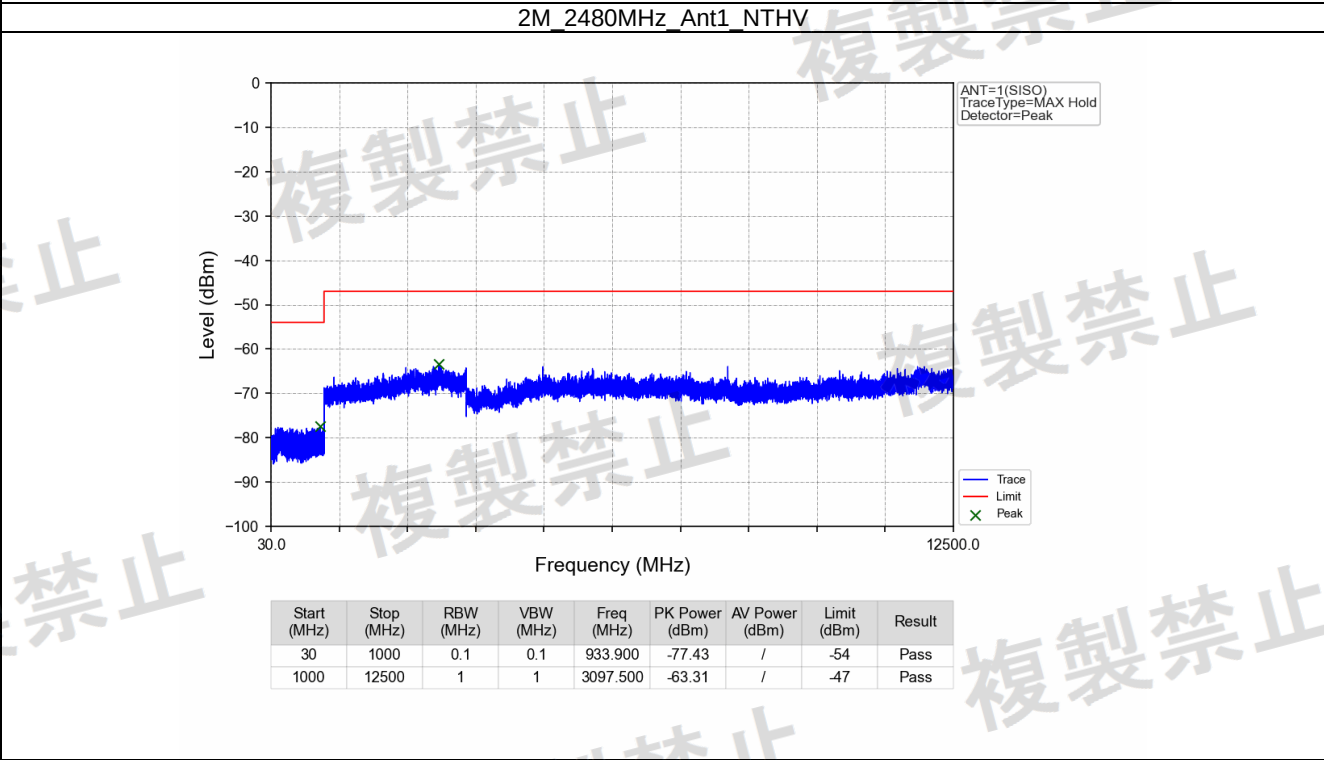
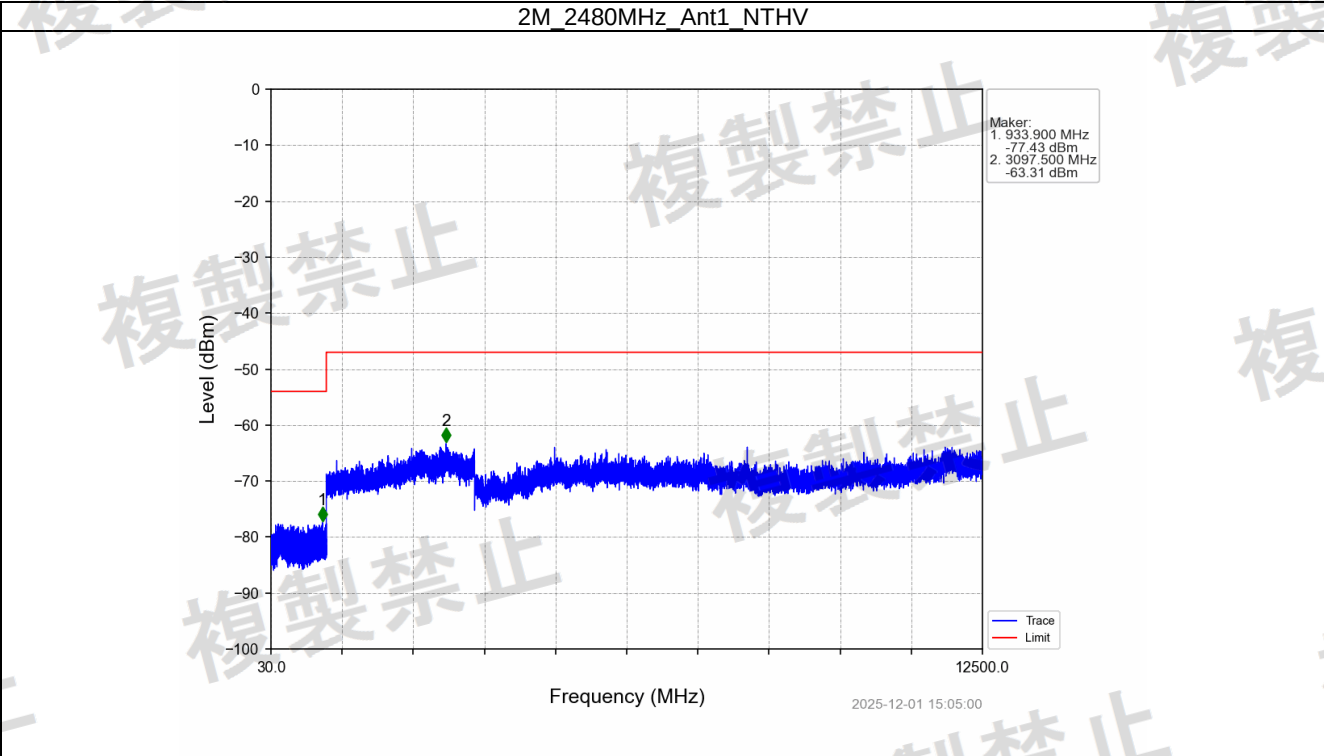
2M_2440MHz_Ant1_NTHV



2M_2440MHz_Ant1_NTHV



Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	1000	0.1	0.1	850.800	-76.77	/	-54	Pass
1000	12500	1	1	11898.000	-63.52	/	-47	Pass





3.6. Construction protection method

REQUIREMENT

The high-frequency section and modulation section of the radio equipment except for the antenna system shall not be capable of being opened easily.

CONFIRMATION METHOD

All high-frequency section and modulation section was packaged in one IC, it can not be easily open.

3.7. Interference Prevention Function

REQUIREMENT

Clarify the one automatically to transmit and to receive identification code with the wireless equipment of the wireless station used in the same premises.

Item	Limits
Identification code	≥ 48 bits

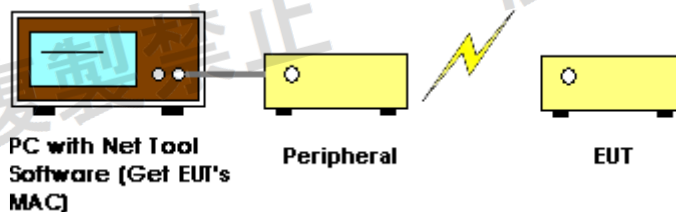
CONFIRMATION METHOD

A communication link was made where the ID code is correct (Identical).

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 other signals 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.

TEST CONFIGURATION



TEST RESULTS

PASS

MAC Address: B3: C2: A0: E2: 5B: D2

3.8. Carrier Sensing Function

LIMIT

Item	Limits
Carrier Sense	Good – EUT stop RF transmission signal after carrier inject to EUT. (On $22.79 + Gr - 20 \cdot \log(f)$ [dBm] (Gr: dBi; f: MHz) or 100mV/m)

INSTRUMENTS SETTING

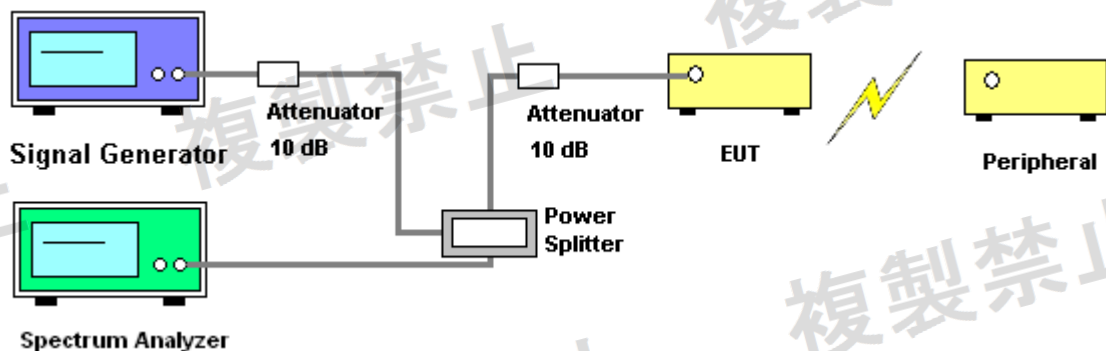
The following table is the setting of spectrum analyser and receiver.

Spectrum Parameter	Setting
Attenuation	Auto
RB / VB	1 MHz
Span	0 MHz
Sweep	Continuous
Detector	Peak
Trigger mode	Video

TEST PROCEDURE

1. SSG adjusted the frequency as same as the EUT transmitted signal and emitted the absence of modulation from SSG and power level is (On $22.79 + Gr - 20 \cdot \log(f)$ [dBm] (Gr: dBi; f: MHz). Then turn off the RF signal of SSG.
2. EUT have transmitted the maximum modulation signal and fixed channelize.
3. Setting of SA is following as: RB: 1MHz / VB: 1MHz / SPAN: 50MHz / AT: 10dB / Ref: 0dBm / Sweep time: Auto / Sweep Mode: Continuous sweep / Detect mode: Positive peak.
4. SSG RF Signal On.
5. EUT shall be stop the transmitted any signal and SSG RF Signal Off. Then EUT will be continuous transmitted signal.

TEST CONFIGURATION

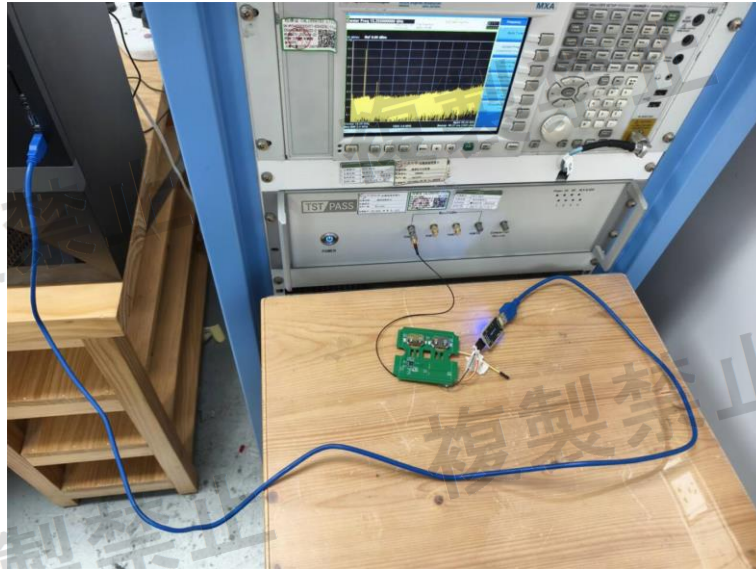


TEST RESULTS

Not Applicable.

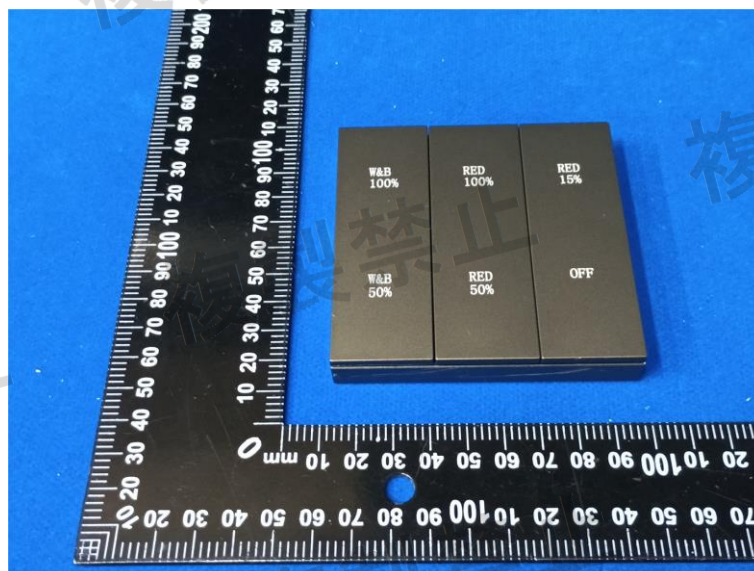
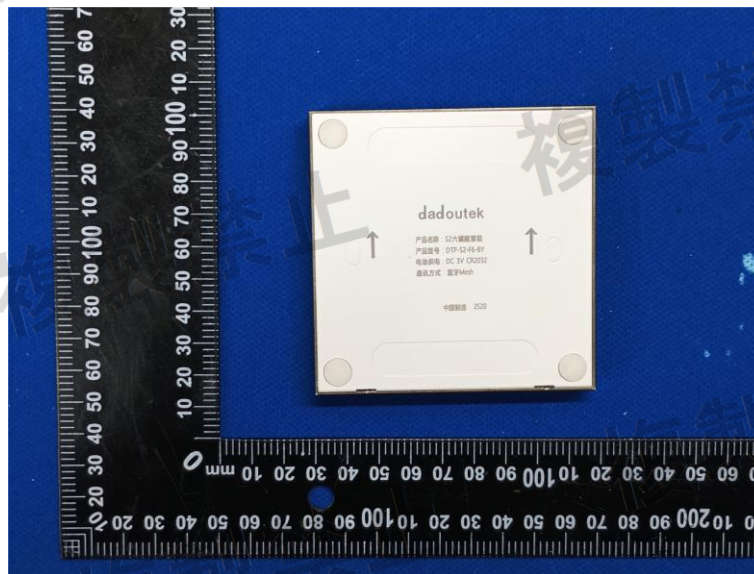
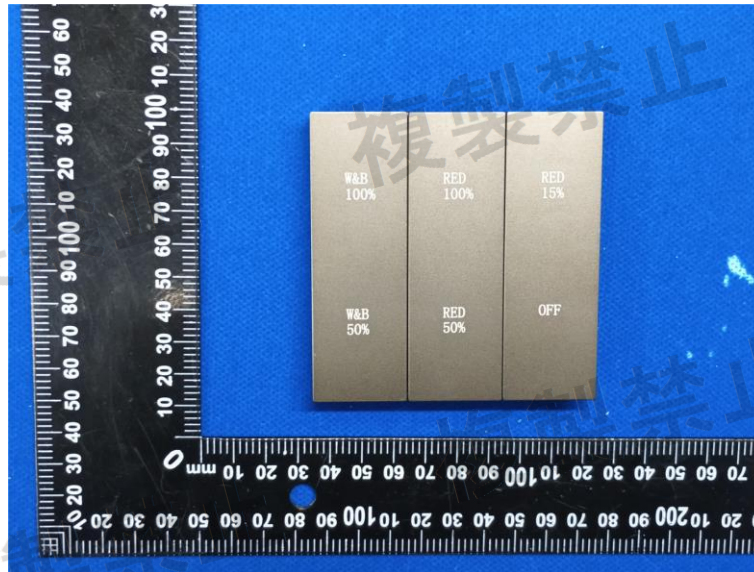


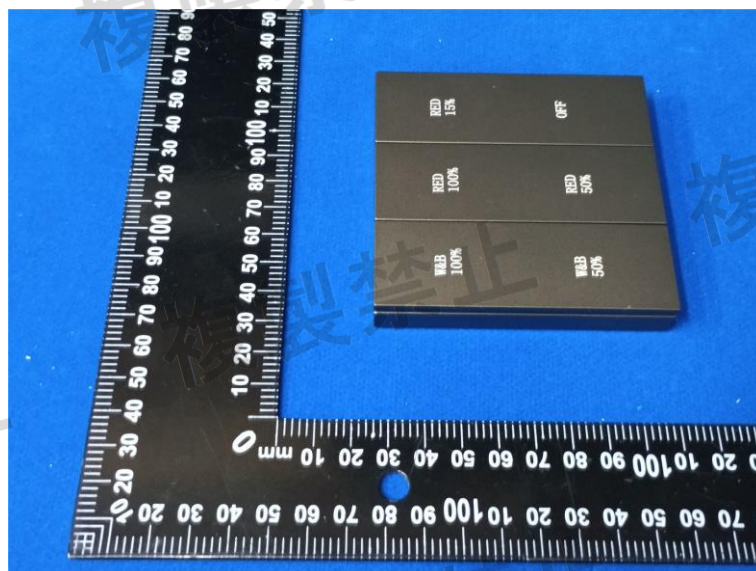
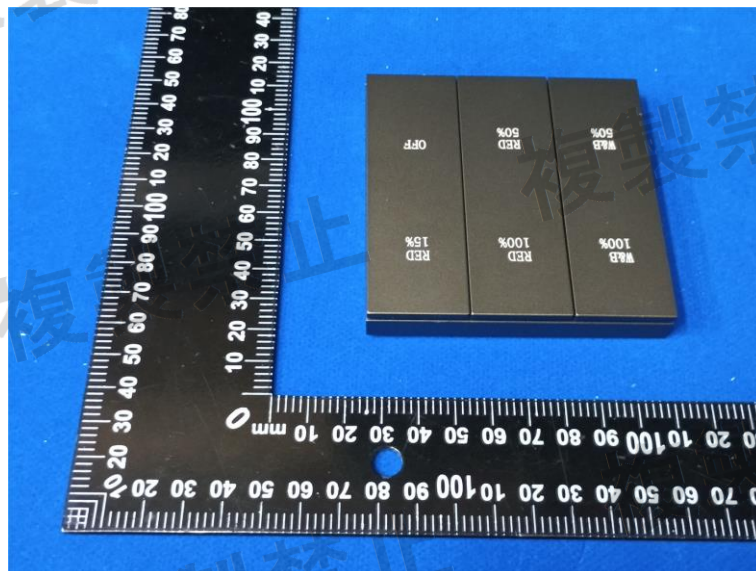
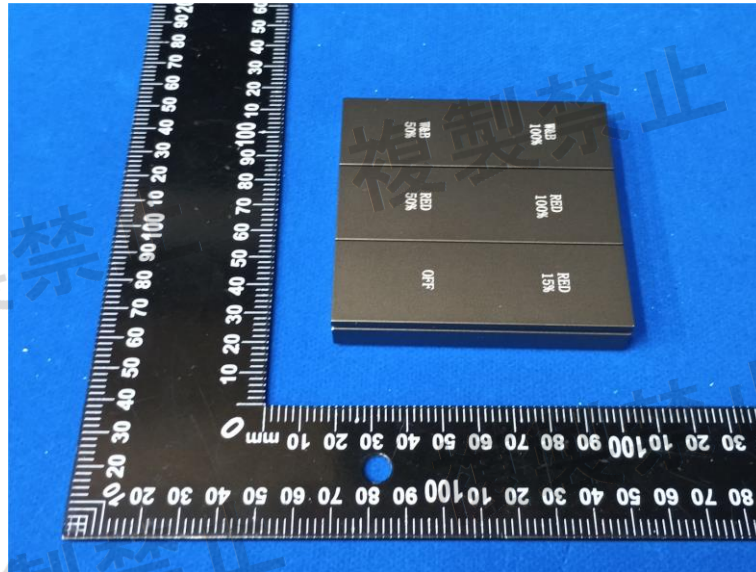
4. Test Setup Photos of the EUT

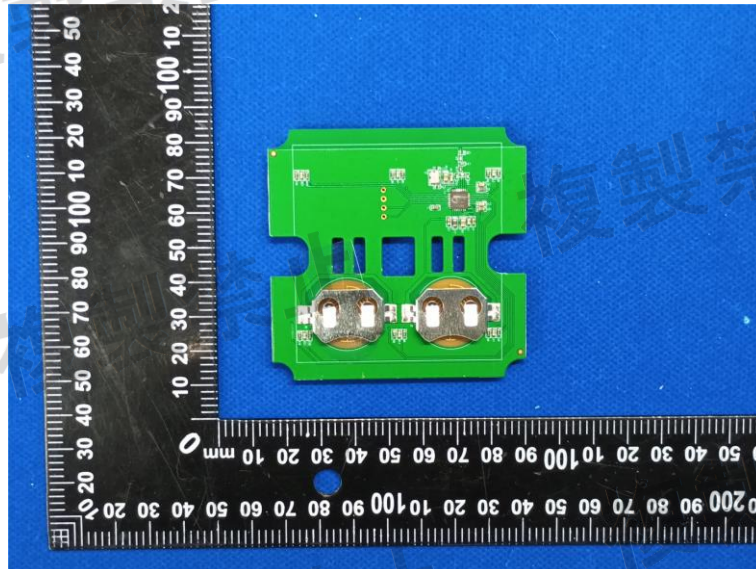
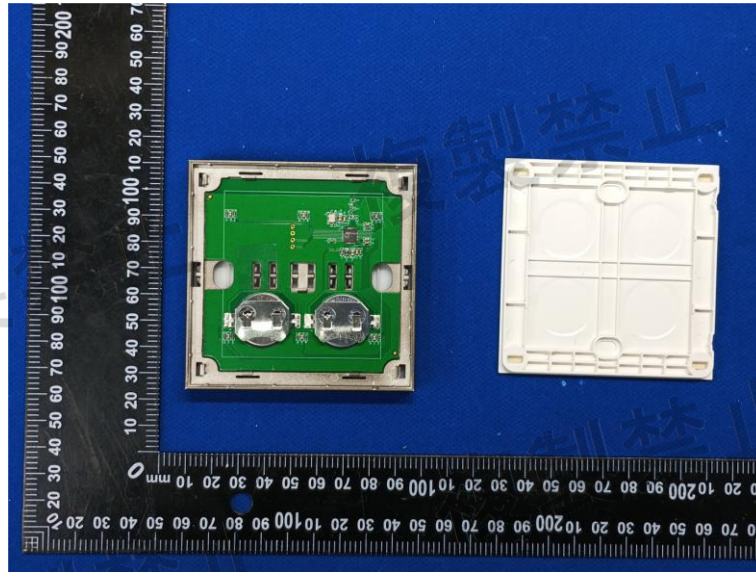




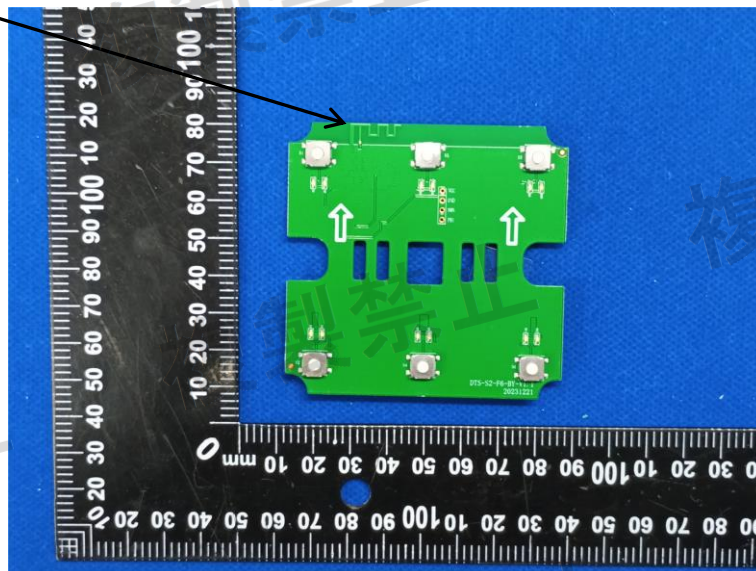
5. External and Internal Photos of the EUT

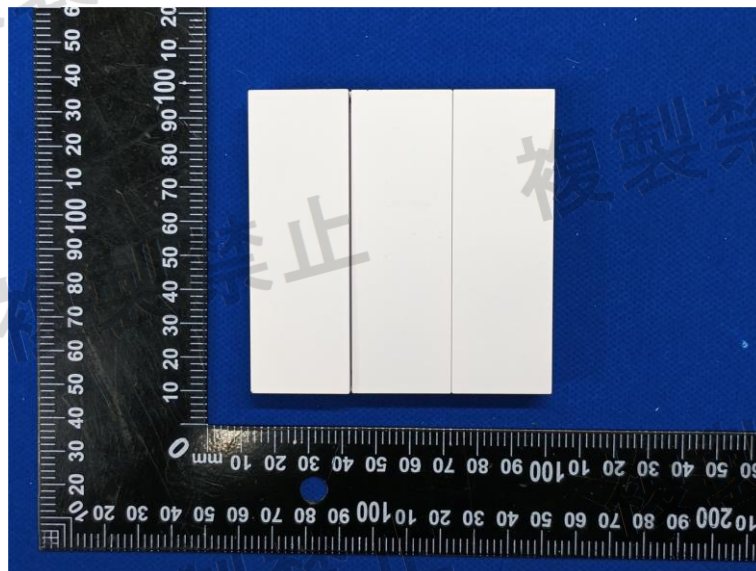
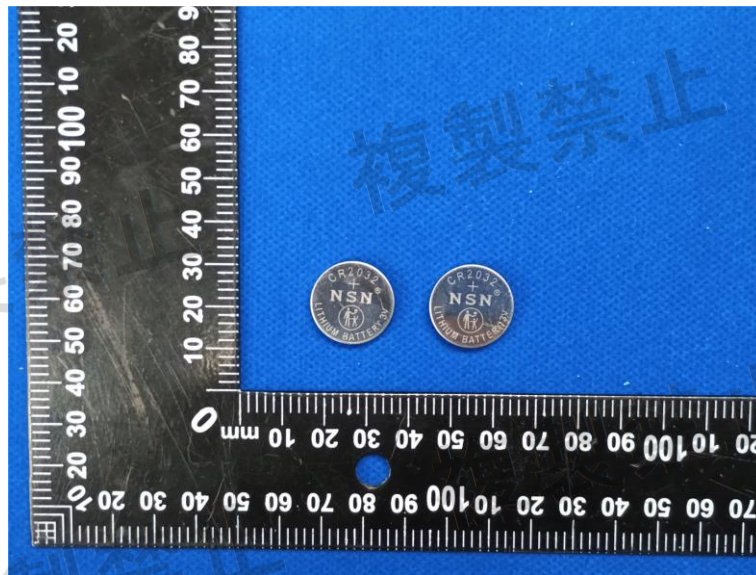






Antenna





*****THE END*****