



TEST REPORT

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Date of issue	2026-04-27
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Applicant's name	Dongguan Liesheng Electronic Co., Ltd.
Address.....	Room 101, 801 & 901, No. 1 Chilong RD, Humen Town, Dongguan City, Guangdong Province, China
Manufacturer's name	Dongguan Liesheng Electronic Co., Ltd.
Address.....	Room 101, 801 & 901, No. 1 Chilong RD, Humen Town, Dongguan City, Guangdong Province, China
Test specification	
Standard	MIC Notice No.88 Appendix No.43 Article 2, paragraph 1, item 19
TRF Originator	SZTZ
Master TRF	Dated 2024-08
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Test item description	True Wireless Noise Cancellation Earphones
Trade Mark	HAYLOU
Model/Type reference.....	HT02
Ratings.....	DC 3.85V by battery or DC 5V by adapter
Result.....	PASS





**** Report Revise Record ****

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	2026-04-27	Valid	Initial release





Contents

1. TEST STANDARDS AND DESCRIPTION	4
1.1. Test Standards	4
1.2. Test description	4
2. SUMMARY.....	5
2.1. General Remarks.....	5
2.2. Product Description.....	5
2.3. Wireless Function Tested in this report	5
2.4. EUT operation mode	6
2.5. Test Voltage.....	7
2.6. EUT configuration.....	8
2.7. Modifications	8
3. TEST ENVIRONMENT	9
3.1. Address of the test laboratory	9
3.2. Statement of the measurement uncertainty	9
3.3. Equipments Used during the Test.....	10
4. TEST CONDITIONS AND RESULTS	11
4.1. Antenna Power	11
4.2. Frequency Error	13
4.3. Interference Prevention Function.....	17
4.4. Occupied Bandwidth (99%).....	18
4.5. Spurious emission intensity	25
4.6. Limit of secondary radiated emissions	65
4.7. Transmission Antenna Gain (EIRP antenna power) Measurement	98
4.8. Transmission Radiation Angle Width (3db Beamwidth) Measurement.....	100
4.9. Dwell Time	101
5. TEST SETUP PHOTOS OF THE EUT	105
6. EXTERNAL AND INTERNAL PHOTOS OF THE EUT	106





1. Test Standards and description

1.1. Test Standards

The tests were performed according to following standards:

Regulation: Item I of Article 49-20 and the relevant Articles of the ordinance of Regulatory Radio Equipment.

Test Method: (1)the test method suppressed on is equal to Appendix No.43 of MIC Notification No 88

1.2. Test description

Test Item	Test Method	Result
Antenna Power	Appendix No.43 of MIC Notification No 88 section 6	Pass
Frequency Error	Appendix No.43 of MIC Notification No 88 section 3	Pass
Interference prevention function	Appendix No.43 of MIC Notification No 88 section 12	Pass
99% Occupied bandwidth	Appendix No.43 of MIC Notification No 88 section 4	Pass
Spurious Emissions Intensity	Appendix No.43 of MIC Notification No 88 section 5	Pass
Limit of secondary radiated emissions	Appendix No.43 of MIC Notification No 88 section 7	Pass
Dwell Time	Appendix No.43 of MIC Notification No 88 section 13	Pass
Transmission Antenna Gain (EIRP antenna power)	Appendix No.43 of MIC Notification No 88 section 10	Pass
Transmission Radiation Angle Width (3db Beamwidth)	Appendix No.43 of MIC Notification No 88 section 11	N/A

N/A: means not applicable





2. Summary

2.1. General Remarks

Date of receipt of test sample : 2026-04-13
Testing commenced on : 2026-04-13
Testing concluded on : 2026-04-26

2.2. Product Description

Name of EUT	: True Wireless Noise Cancellation Earphones
Trade Mark	: HAYLOU
Model/Type reference	: HT02
Test Model	: HT02
Hardware Version	: V6.0
Software Version	: V6.0
Power supply	: DC 3.85V by battery or DC 5V by adapter

2.3. Wireless Function Tested in this report

Bluetooth	
Modulation	: BR ☒ GFSK:1Mbps; EDR ☒ π /4-DQPSK:2Mbps ☒ 8DPSK:3Mbps
Operation frequency	: 2402MHz~2480MHz
Channel number	: 79
Channel separation	: 1MHz
Antenna type	: FPC antenna
Antenna gain	: Left: 0.07dBi Right: -1.60dBi

Note 1: The left and right earphones use the same PCB design, therefore only the left earphone was tested.





Operation Frequency List:

Channel No.	Frequency (GHz)	Channel No.	Frequency (GHz)	Channel No.	Frequency (GHz)
00	2.402	28	2.430	56	2.458
01	2.403	29	2.431	57	2.459
02	2.404	30	2.432	58	2.460
03	2.405	31	2.433	59	2.461
04	2.406	32	2.434	60	2.462
05	2.407	33	2.435	61	2.463
06	2.408	34	2.436	62	2.464
07	2.409	35	2.437	63	2.465
08	2.410	36	2.438	64	2.466
09	2.411	37	2.439	65	2.467
10	2.412	38	2.440	66	2.468
11	2.413	39	2.441	67	2.469
12	2.414	40	2.442	68	2.470
13	2.415	41	2.443	69	2.471
14	2.416	42	2.444	70	2.472
15	2.417	43	2.445	71	2.473
16	2.418	44	2.446	72	2.474
17	2.419	45	2.447	73	2.475
18	2.420	46	2.448	74	2.476
19	2.421	47	2.449	75	2.477
20	2.422	48	2.450	76	2.478
21	2.423	49	2.451	77	2.479
22	2.424	50	2.452	78	2.480
23	2.425	51	2.453		
24	2.426	52	2.454		
25	2.427	53	2.455		
26	2.428	54	2.456		
27	2.429	55	2.457		

2.4. EUT operation mode

The EUT has been tested under typical operating condition. The Applicant provides software(FCC_assist_1.0.2.2 at power level 10) to control the EUT for staying in continuous transmitting and receiving mode for testing.





2.5. Test Voltage

Voltage Fluctuation Test	Normal Voltage	High Voltage +10% of Normal Voltage	Low Voltage -10% of Normal Voltage
Input To EUT	DC 3.85V	DC 4.2V	DC 3.5V
Output To RF Module	DC 3.3V	DC 3.3V	DC 3.3V
Voltage Variation (%)	--	--	--

Note:

Voltage Variation (%)

= (Output high or Low Voltage - Output Normal Voltage) / Output Normal Voltage * 100

During the input supply voltage to the EUT from the external power source is varied by +/- 10%, if output voltage had been confirmed that the fluctuation of power supply to the RF circuit of EUT (excluding power source) is equal to or less than +/-1%. Exempt extremely high and low supply voltage condition test, EUT only operated in normal voltage to test all regulations.





2.6. EUT configuration

(1) The following peripheral devices and interface cables were connected during the measurement:

- - supplied by the manufacturer
- - supplied by the lab

○	Adapter	Model:	MDY-10-EH
		Input:	Input 100-240V\AC 50/60Hz 0.7A
		Output:	Output 5V-3A

(2) Protective Structure

- ☐ The exterior cover was sealed by Special screws, it can not be easily open.
- ☐ The enclosure was sealed with strong adhesive glue, it can not be easily open.
- ☐ All high-frequency section and modulation section was packaged in one IC, and shield by metal shield, it can not be easily open.
- ☐ The top and the bottom is connected with strong Buckles, it can not be easily open.
- ☒ Others: The top and the bottom is connected with strong Buckles, So We can not open the it easily at the normal condition. The high-frequency section and modulation section can not be capable of being opened easily



2.7. Modifications

No modifications were implemented to meet testing criteria.





3. Test Environment

3.1. Address of the test laboratory

Shenzhen Tongzhou Testing Co.,Ltd

1st Floor, Building 1, Haomai High-tech Park, Huating Road 387, Dalang Street, Longhua, Shenzhen, China

The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.4 (2014) and CISPR Publication 22.

3.2. Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to CISPR 16 - 4 „Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements“ and is documented in the Shenzhen Tongzhou Testing Co.,Ltd quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Hereafter the best measurement capability for Shenzhen Tongzhou Testing Co.,Ltd is reported:

Test Items	Measurement Uncertainty	Notes
Frequency stability	$U_c = \pm 25 \text{ Hz}$	(1)
Transmitter power conducted	$U_c = \pm 0.57 \text{ dB}$	(1)
Uncertainty of Occupied Channel Bandwidth	$U_c = \pm 2 \%$	(1)
Uncertainty of RF Power Density, Conducted	$U_c = \pm 2.6 \text{ dB}$	(1)
Uncertainty of Spurious Emissions, Conducted (30MHz-1GHz)	$U_c = \pm 2.7 \text{ dB}$	(1)
Uncertainty of Spurious Emissions, Conducted (1GHz-26GHz)	$U_c = \pm 3.2 \text{ dB}$	(1)
Uncertainty of Dwell Time	$U_c = \pm 2\%$	(1)

- (1) This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=1.96$.





3.3. Equipments Used during the Test

Item	Test Equipment	Manufacturer	Model No.	Serial No.	Latest Cal.	Next Cal.
1	MXA Signal Analyzer	Keysight	N9020A	MY52091623	2025-12-31	2026-12-30
2	EMI Test Receiver	R&S	ESCI	100849/003	2025-12-31	2026-12-30
3	DC power supply	Chroma	RXN-305D	62012PD02811	2025-12-31	2026-12-30
4	Power Meter	Agilent	NRVD	835843/014	2025-12-31	2026-12-30
5	Wideband Radio Communication Tester	R&S	CMW500	101855	2025-12-31	2026-12-30
6	Oscilloscope	Tektronix	TDS2024C	C044925	2025-12-31	2026-12-30
7	Signal Generator	Keysight	N5182A	MY4620709	2025-12-31	2026-12-30

Full Name of calibration company: Guangzhou Lisai Metrology & Test 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

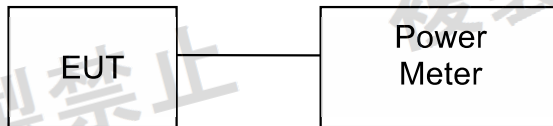




4. Test conditions and Results

4.1. Antenna Power

TEST CONFIGURATION



TEST PROCEDURE

1. EUT have transmitted continuous maximum power..
2. Frequency hopping system or combined systems of direct spread and frequency hopping
 - i. Connect the high frequency Power Meter or Spectrum Analyzer to the output of the attenuator and measure the total power (without bandwidth limitation)
 - ii. Divide the total power by the spread bandwidth to find the "average" power per MHz.
The average power per MHz is equal to the power meter value dBm + cable loss dB.
 - iii. Set the antenna power as follows:
 - Continuous waves: value in ii.

LIMIT

Item	Limits
Antenna Power Density	$\leq 3\text{mW/MHz}$ (FH form 2400~2483.5MHz)
	$\leq 10\text{mW/MHz}$ (OFDM,DS from 2400~2483.5MHz)
	$\leq 10\text{mW}$ (Other from 2400~2483.5MHz)
Antenna Power Error	$\leq 20\%$ (Base on manufacturer declare antenna power density)





TEST RESULTS

Antenna Power								
Test Condition	Test Mode	Antenna	Channel	Hopping Total power [mW]	Spread BW [MHz]	Result (mW/ MHz)	Limit (mW/ MHz)	Verdict
NTNV	DH5	Ant1	Hop	161.1864	71.926	2.2410	≤3	PASS
	2DH5	Ant1	Hop	128.3328	71.555	1.7935	≤3	PASS
	3DH5	Ant1	Hop	68.6016	71.499	0.9595	≤3	PASS
NTLV	DH5	Ant1	Hop	161.1864	72.325	2.2286	≤3	PASS
	2DH5	Ant1	Hop	108.4752	72.756	1.4909	≤3	PASS
	3DH5	Ant1	Hop	60.1632	71.526	0.8411	≤3	PASS
NTHV	DH5	Ant1	Hop	141.6888	71.019	1.9951	≤3	PASS
	2DH5	Ant1	Hop	127.4472	72.078	1.7682	≤3	PASS
	3DH5	Ant1	Hop	59.4720	71.670	0.8298	≤3	PASS

Tolerance								
Test Condition	Test Mode	Antenna	Channel	Power (mW/ MHz)	Rated Power (mW/ MHz)	Result (%)	Limit (%)	Verdict
NTNV	DH5	Ant1	Hop	2.2410	3	-25.30	≤20	PASS
	2DH5	Ant1	Hop	1.7935	3	-40.22	≤20	PASS
	3DH5	Ant1	Hop	0.9595	3	-68.02	≤20	PASS
NTLV	DH5	Ant1	Hop	2.2286	3	-25.71	≤20	PASS
	2DH5	Ant1	Hop	1.4909	3	-50.30	≤20	PASS
	3DH5	Ant1	Hop	0.8411	3	-71.96	≤20	PASS
NTHV	DH5	Ant1	Hop	1.9951	3	-33.50	≤20	PASS
	2DH5	Ant1	Hop	1.7682	3	-41.06	≤20	PASS
	3DH5	Ant1	Hop	0.8298	3	-72.34	≤20	PASS

Remark:

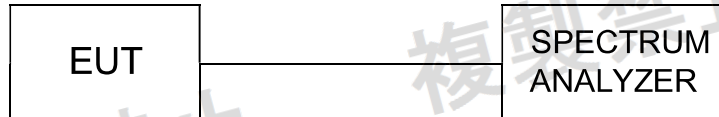
- 1, The item was tested at 25℃ and 55% humidity condition;
- 2, Result = the power meter value + cable loss





4.2. Frequency Error

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:1MHz

Rbw:10KHz

Vbw:10KHz

Sweep time:Auto

Dectector mode: Positive peak

Indication mode: max hold

The frequency error in PPM (Parts Per Million) is calculated using the following formula:

$$PPM = \frac{f_{\text{measured}} - f_{\text{nominal}}}{f_{\text{nominal}}} \times 10^6$$

Where:

- f_{measured} = measured frequency
- f_{nominal} = nominal (target) frequency

LIMIT

Tolerance of frequency shall be ± 50 ppm.

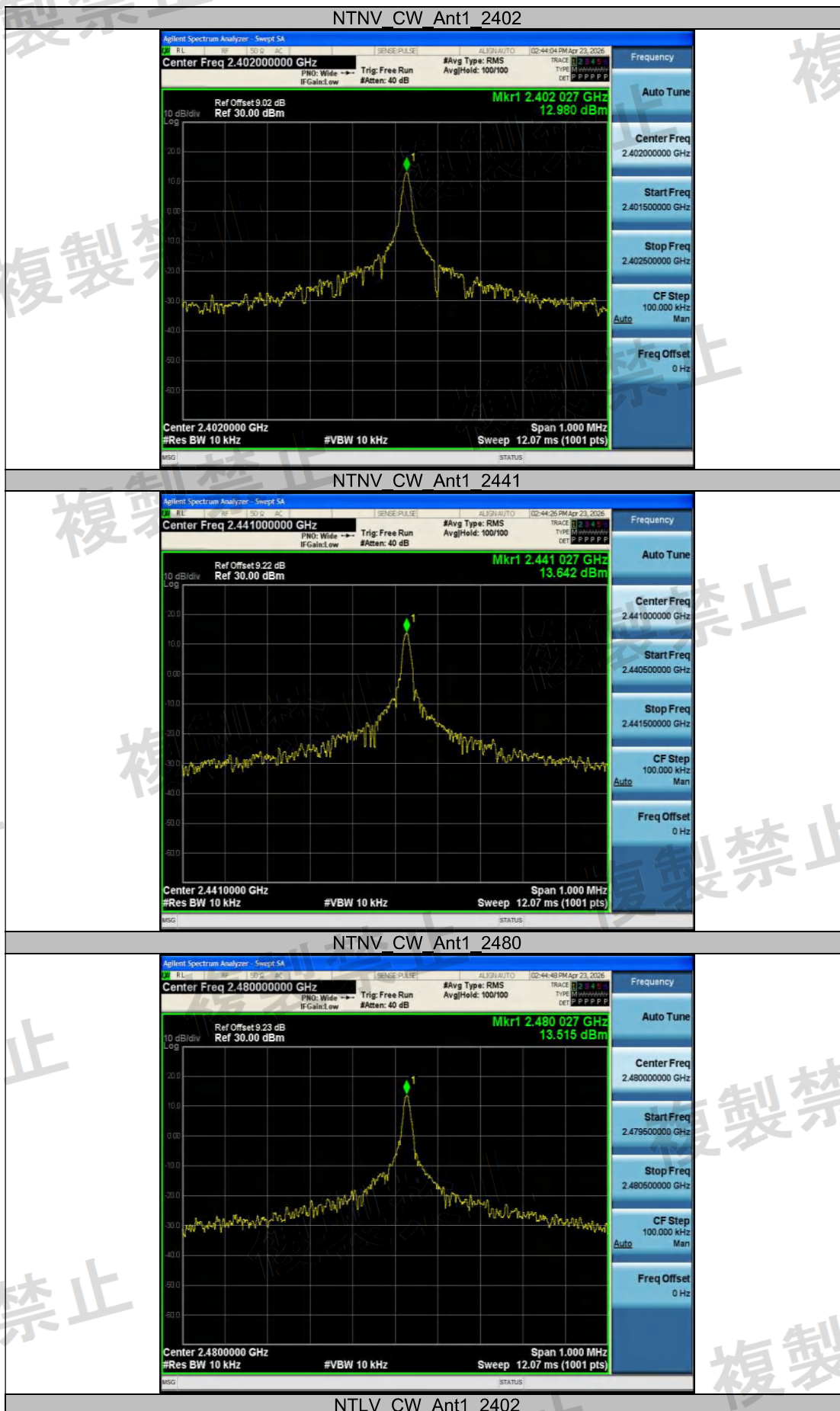
TEST RESULTS

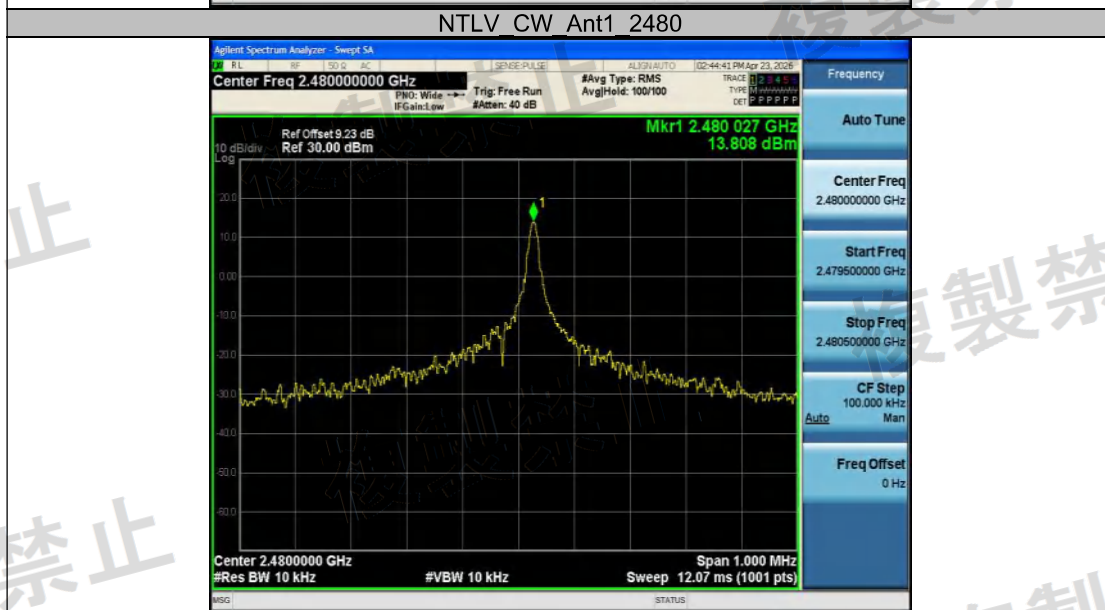
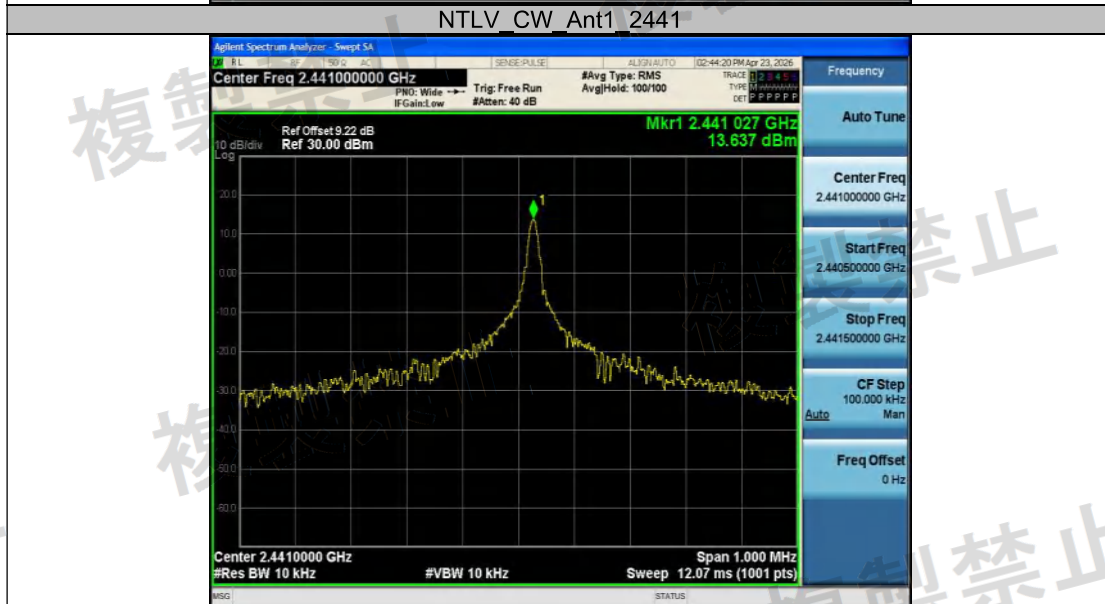
Test Condition	Test Mode	Antenna	Frequency [MHz]	Measured Frequency [MHz]	Result [ppm]	Limit [ppm]	Verdict
NTNV	CW	Ant1	2402	2402.027	11.24063	± 50	PASS
			2441	2441.027	11.06104	± 50	PASS
			2480	2480.027	10.88710	± 50	PASS
NTLV	CW	Ant1	2402	2402.027	11.24063	± 50	PASS
			2441	2441.027	11.06104	± 50	PASS
			2480	2480.027	10.88710	± 50	PASS
NTHV	CW	Ant1	2402	2402.026	10.82431	± 50	PASS
			2441	2441.027	11.06104	± 50	PASS
			2480	2480.027	10.88710	± 50	PASS

Note: 1. The test results including the cable lose.
2. The item was tested at 25℃ and 55% humidity condition;
3.All condition has been testd,list the worst case in this item

Test plot as follows:





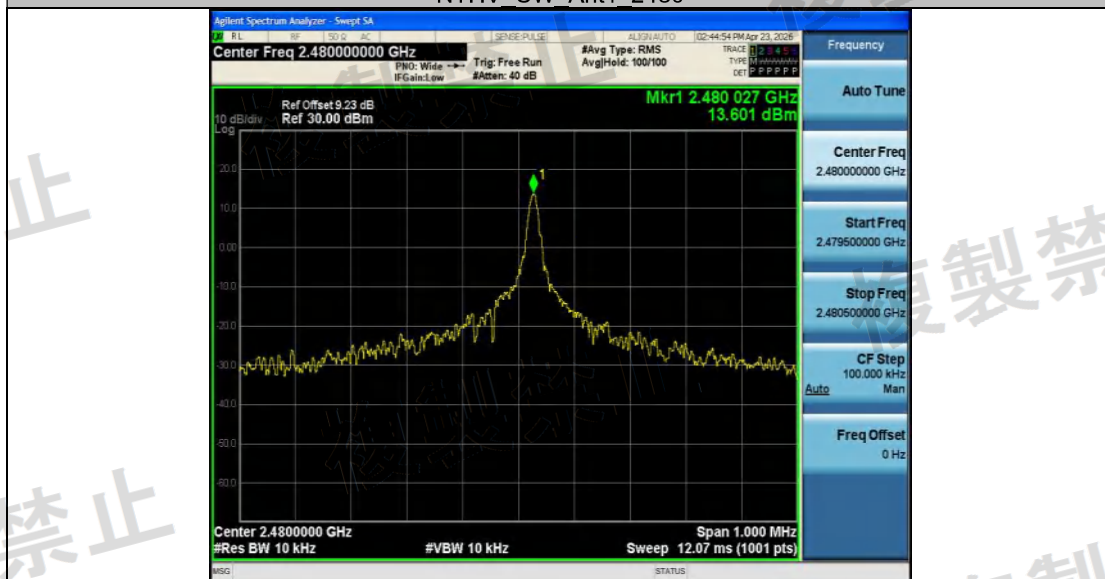




NTHV CW Ant1 2441



NTHV CW Ant1 2480





4.3. Interference Prevention Function

The device consists of the Antenna and transmitter module. Component transmitter module also can use the protocol function to protect interference come from outside.

TEST EQUIPMENT

CMW500

TEST SOFTWARE

N/A

TEST PROCEDURE

1. Open the software
2. Scan for EUT, and read the MAC address.

TEST RESULTS

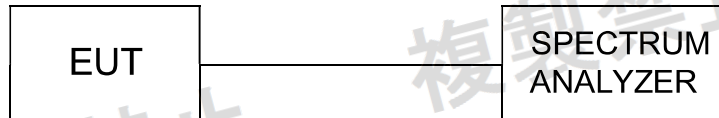
The unit does meet the requirements.
MAC Address:65:F5:EA:4F:2F:9E





4.4. Occupied Bandwidth (99%)

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: modulation

Spectrum Condition:

Frequency: Center frequency in the band to be used

Span:200MHz

RBW:1MHz

VBW:1MHz

Sweep time:Auto

Dectector mode: Positive peak

Indication mode: max hold

LIMIT

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

TEST RESULTS

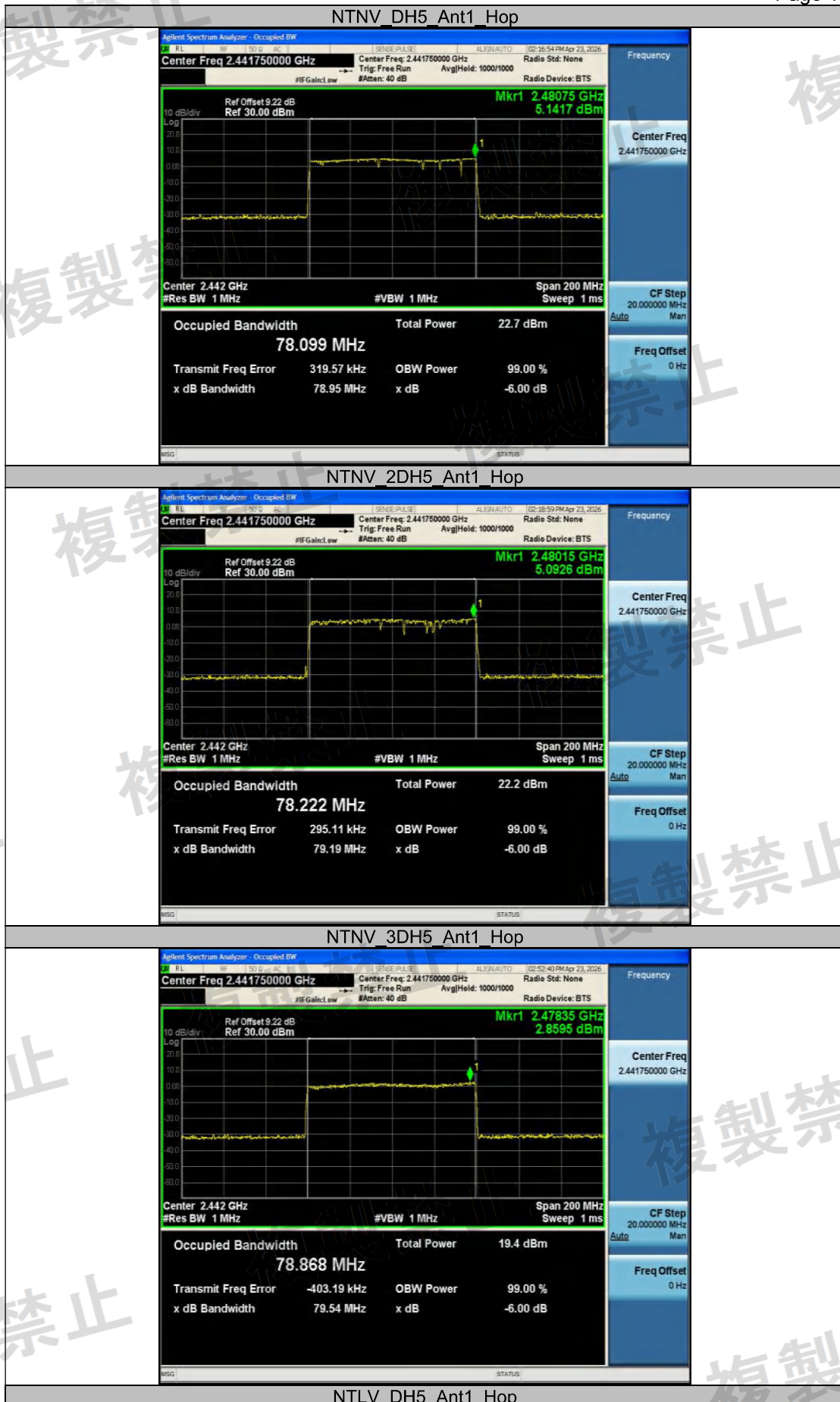
Test Condition	Test Mode	Antenna	Channel	Result [MHz]	Limit [MHz]	Verdict
NTNV	DH5	Ant1	Hop	78.099	≤83.5	PASS
	2DH5	Ant1	Hop	78.222	≤83.5	PASS
	3DH5	Ant1	Hop	78.868	≤83.5	PASS
NTLV	DH5	Ant1	Hop	79.311	≤83.5	PASS
	2DH5	Ant1	Hop	79.373	≤83.5	PASS
	3DH5	Ant1	Hop	78.877	≤83.5	PASS
NTHV	DH5	Ant1	Hop	78.206	≤83.5	PASS
	2DH5	Ant1	Hop	79.270	≤83.5	PASS
	3DH5	Ant1	Hop	78.980	≤83.5	PASS

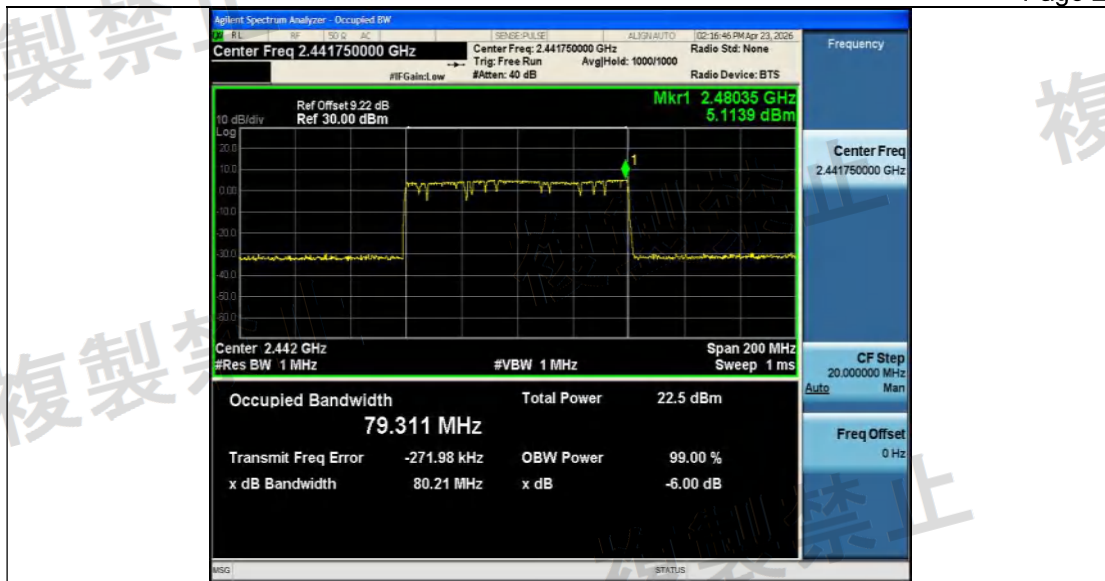
Note: 1. The test results including the cable lose.
2. The item was tested at 25 °C and 55% humidity condition;

TestCondition	TestMode	Antenna	Channel	Result [MHz]
NTNV	DH5	Ant1	Hop	71.926
	2DH5	Ant1	Hop	71.555
	3DH5	Ant1	Hop	71.499
NTLV	DH5	Ant1	Hop	72.325
	2DH5	Ant1	Hop	72.756
	3DH5	Ant1	Hop	71.526
NTHV	DH5	Ant1	Hop	71.019
	2DH5	Ant1	Hop	72.078
	3DH5	Ant1	Hop	71.670

Test plot as follows:







NTLV_2DH5_Ant1_Hop



NTLV_3DH5_Ant1_Hop



NTHV_DH5_Ant1_Hop



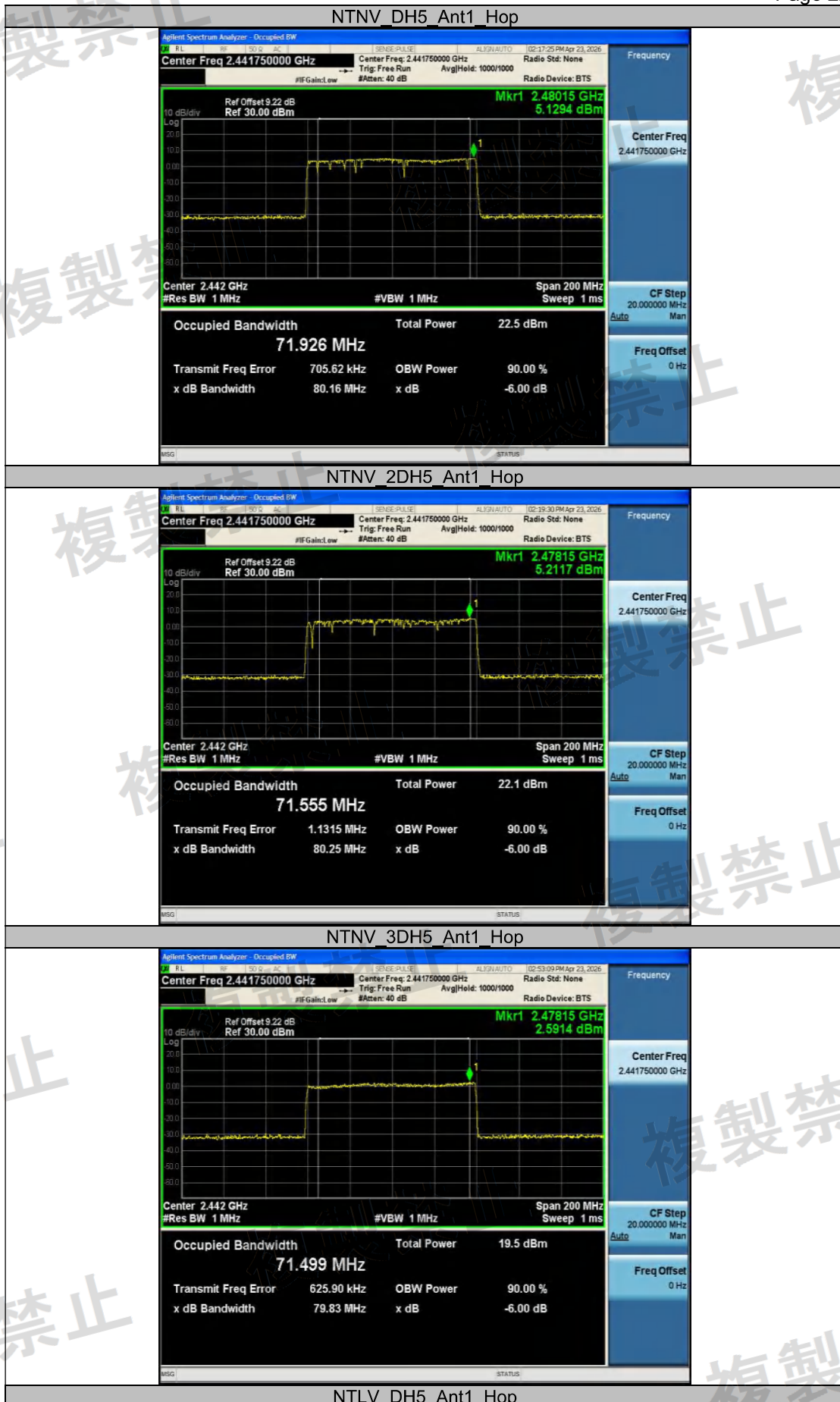


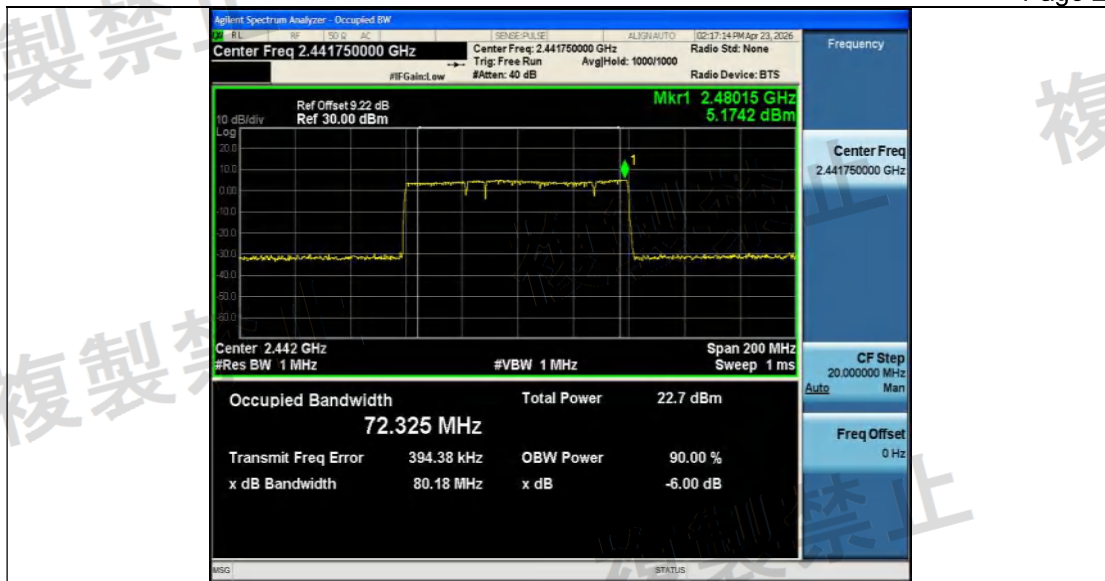
NTHV_2DH5_Ant1_Hop



NTHV_3DH5_Ant1_Hop







NTLV_2DH5_Ant1_Hop



NTLV_3DH5_Ant1_Hop



NTHV_DH5_Ant1_Hop





NTHV_2DH5_Ant1_Hop



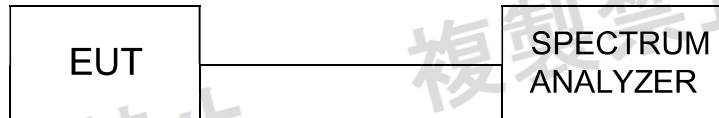
NTHV_3DH5_Ant1_Hop





4.5. Spurious emission intensity

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: modulation

Spectrum Condition:

Frequency: 30MHz-13GHz

RBW: 1MHz (30MHz-1GHz), 1MHz(1GHz-13GHz)

VBW: 1MHz (30MHz-1GHz), 1MHz(1GHz-13GHz)

Sweep time:Auto

Dectector mode: Positive peak

Indication mode: max hold

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 $\mu\text{W/MHz}$ (-16dBm/MHz) or less
b. $2,387 \text{ MHz} > f$ and $2,496.5 \text{ MHz} < f$ 2.5 $\mu\text{W/MHz}$ (-26dBm/MHz) or less

TEST RESULTS

Test Condition	Test Mode	Antenna	Freq (MHz)	Freq.Range [MHz]	Freq. [MHz]	Result [dBm/MHz]	Limit [dBm/MHz]	Result [$\mu\text{W/MHz}$]	Limit [$\mu\text{W/MHz}$]	Verdict
NTNV	DH5	Ant1	2402	30~2387	1973.94	-48.05	≤ -26	0.01567	≤ 2.5	PASS
				2387~2400	2400.00	-31.98	≤ -16	0.63387	≤ 25	PASS
				2483.5~2496.5	2490.67	-39.97	≤ -16	0.10069	≤ 25	PASS
				2496.5~13000	4804.76	-34.41	≤ -26	0.36224	≤ 2.5	PASS
			2441	30~2387	1902.93	-48.04	≤ -26	0.01570	≤ 2.5	PASS
				2387~2400	2391.99	-40.69	≤ -16	0.08531	≤ 25	PASS
				2483.5~2496.5	2484.99	-40.43	≤ -16	0.09057	≤ 25	PASS
				2496.5~13000	4882.49	-33.79	≤ -26	0.41783	≤ 2.5	PASS
			2480	30~2387	2000.16	-48.37	≤ -26	0.01455	≤ 2.5	PASS
				2387~2400	2395.07	-40.11	≤ -16	0.09750	≤ 25	PASS
				2483.5~2496.5	2484.25	-38.80	≤ -16	0.13183	≤ 25	PASS
				2496.5~13000	4960.74	-34.06	≤ -26	0.39264	≤ 2.5	PASS
	2DH5	Ant1	2402	30~2387	1903.82	-47.81	≤ -26	0.01656	≤ 2.5	PASS
				2387~2400	2399.98	-31.75	≤ -16	0.66834	≤ 25	PASS
				2483.5~2496.5	2490.37	-38.63	≤ -16	0.13709	≤ 25	PASS
				2496.5~13000	4804.76	-34.47	≤ -26	0.35727	≤ 2.5	PASS
			2441	30~2387	2186.07	-48.58	≤ -26	0.01387	≤ 2.5	PASS
				2387~2400	2397.33	-41.06	≤ -16	0.07834	≤ 25	PASS





NTLV	3DH 5	Ant1		2483.5~2496.5	2489.08	-40.84	≤-16	0.08241	≤25	PASS
				2496.5~13000	4883.01	-34.11	≤-26	0.38815	≤2.5	PASS
			2480	30~2387	1984.54	-47.86	≤-26	0.01637	≤2.5	PASS
				2387~2400	2391.00	-40.07	≤-16	0.09840	≤25	PASS
				2483.5~2496.5	2483.74	-38.21	≤-16	0.15101	≤25	PASS
				2496.5~13000	4960.74	-34.85	≤-26	0.32734	≤2.5	PASS
			2402	30~2387	2003.10	-48.75	≤-26	0.01334	≤2.5	PASS
				2387~2400	2399.97	-36.30	≤-16	0.23442	≤25	PASS
				2483.5~2496.5	2489.53	-39.86	≤-16	0.10328	≤25	PASS
				2496.5~13000	4804.76	-37.43	≤-26	0.18072	≤2.5	PASS
	DH5	Ant1	2441	30~2387	1948.89	-48.01	≤-26	0.01581	≤2.5	PASS
				2387~2400	2388.56	-40.29	≤-16	0.09354	≤25	PASS
				2483.5~2496.5	2495.48	-40.56	≤-16	0.08790	≤25	PASS
				2496.5~13000	4882.49	-35.93	≤-26	0.25527	≤2.5	PASS
			2480	30~2387	1846.07	-47.47	≤-26	0.01791	≤2.5	PASS
				2387~2400	2391.59	-39.47	≤-16	0.11298	≤25	PASS
				2483.5~2496.5	2483.91	-40.26	≤-16	0.09419	≤25	PASS
				2496.5~13000	12733.20	-43.40	≤-26	0.04571	≤2.5	PASS
	NTLV	Ant1	2402	30~2387	1920.90	-47.67	≤-26	0.01710	≤2.5	PASS
				2387~2400	2399.97	-34.17	≤-16	0.38282	≤25	PASS
				2483.5~2496.5	2492.57	-40.29	≤-16	0.09354	≤25	PASS
				2496.5~13000	4804.23	-34.39	≤-26	0.36392	≤2.5	PASS
			2441	30~2387	1969.22	-48.30	≤-26	0.01479	≤2.5	PASS
				2387~2400	2396.25	-40.37	≤-16	0.09183	≤25	PASS
				2483.5~2496.5	2495.96	-39.37	≤-16	0.11561	≤25	PASS
				2496.5~13000	4883.01	-33.49	≤-26	0.44771	≤2.5	PASS
			2480	30~2387	1948.30	-47.77	≤-26	0.01671	≤2.5	PASS
				2387~2400	2391.86	-39.41	≤-16	0.11455	≤25	PASS
				2483.5~2496.5	2483.75	-39.26	≤-16	0.11858	≤25	PASS
				2496.5~13000	4960.74	-34.18	≤-26	0.38194	≤2.5	PASS
	2DH 5	Ant1	2402	30~2387	1922.08	-48.76	≤-26	0.01330	≤2.5	PASS
				2387~2400	2399.99	-29.64	≤-16	1.08643	≤25	PASS
				2483.5~2496.5	2484.92	-40.03	≤-16	0.09931	≤25	PASS
				2496.5~13000	4804.76	-34.43	≤-26	0.36058	≤2.5	PASS
			2441	30~2387	1833.40	-48.75	≤-26	0.01334	≤2.5	PASS
				2387~2400	2393.70	-40.72	≤-16	0.08472	≤25	PASS
				2483.5~2496.5	2493.12	-39.81	≤-16	0.10447	≤25	PASS
				2496.5~13000	4883.01	-33.80	≤-26	0.41687	≤2.5	PASS
			2480	30~2387	1963.62	-48.16	≤-26	0.01528	≤2.5	PASS
				2387~2400	2399.86	-40.90	≤-16	0.08128	≤25	PASS
				2483.5~2496.5	2485.64	-39.39	≤-16	0.11508	≤25	PASS
				2496.5~13000	4960.22	-34.76	≤-26	0.33420	≤2.5	PASS
		Ant1	2402	30~2387	1916.19	-47.20	≤-26	0.01905	≤2.5	PASS





3DH 5				2387~2400	2400.00	-36.91	≤-16	0.20370	≤25	PASS
				2483.5~2496.5	2488.55	-39.85	≤-16	0.10351	≤25	PASS
				2496.5~13000	4804.76	-36.14	≤-26	0.24322	≤2.5	PASS
			2441	30~2387	1938.29	-47.78	≤-26	0.01667	≤2.5	PASS
				2387~2400	2387.98	-40.80	≤-16	0.08318	≤25	PASS
				2483.5~2496.5	2491.14	-40.26	≤-16	0.09419	≤25	PASS
				2496.5~13000	4883.01	-36.60	≤-26	0.21878	≤2.5	PASS
			2480	30~2387	1920.02	-47.82	≤-26	0.01652	≤2.5	PASS
				2387~2400	2392.95	-39.89	≤-16	0.10257	≤25	PASS
				2483.5~2496.5	2488.72	-40.06	≤-16	0.09863	≤25	PASS
				2496.5~13000	12455.37	-42.74	≤-26	0.05321	≤2.5	PASS
NTHV	DH5	Ant1	2402	30~2387	1963.33	-48.04	≤-26	0.01570	≤2.5	PASS
				2387~2400	2399.92	-33.71	≤-16	0.42560	≤25	PASS
				2483.5~2496.5	2493.42	-39.68	≤-16	0.10765	≤25	PASS
				2496.5~13000	4804.76	-34.09	≤-26	0.38994	≤2.5	PASS
			2441	30~2387	1926.80	-47.24	≤-26	0.01888	≤2.5	PASS
				2387~2400	2398.14	-39.78	≤-16	0.10520	≤25	PASS
				2483.5~2496.5	2490.37	-40.10	≤-16	0.09772	≤25	PASS
				2496.5~13000	4882.49	-33.98	≤-26	0.39994	≤2.5	PASS
			2480	30~2387	1982.19	-48.27	≤-26	0.01489	≤2.5	PASS
				2387~2400	2394.62	-40.91	≤-16	0.08110	≤25	PASS
				2483.5~2496.5	2483.90	-38.34	≤-16	0.14655	≤25	PASS
				2496.5~13000	4960.22	-34.60	≤-26	0.34674	≤2.5	PASS
	2DH 5	Ant1	2402	30~2387	2274.45	-47.94	≤-26	0.01607	≤2.5	PASS
				2387~2400	2399.96	-33.11	≤-16	0.48865	≤25	PASS
				2483.5~2496.5	2493.03	-40.43	≤-16	0.09057	≤25	PASS
				2496.5~13000	4804.76	-34.38	≤-26	0.36475	≤2.5	PASS
			2441	30~2387	1998.39	-48.48	≤-26	0.01419	≤2.5	PASS
				2387~2400	2387.39	-40.61	≤-16	0.08690	≤25	PASS
				2483.5~2496.5	2495.75	-40.35	≤-16	0.09226	≤25	PASS
				2496.5~13000	4883.01	-33.30	≤-26	0.46774	≤2.5	PASS
			2480	30~2387	1886.73	-48.42	≤-26	0.01439	≤2.5	PASS
				2387~2400	2393.93	-40.37	≤-16	0.09183	≤25	PASS
				2483.5~2496.5	2494.46	-39.15	≤-16	0.12162	≤25	PASS
				2496.5~13000	4960.74	-33.99	≤-26	0.39902	≤2.5	PASS
3DH 5			2402	30~2387	1921.20	-48.83	≤-26	0.01309	≤2.5	PASS
				2387~2400	2399.99	-35.72	≤-16	0.26792	≤25	PASS
				2483.5~2496.5	2494.84	-40.69	≤-16	0.08531	≤25	PASS
				2496.5~13000	4804.23	-36.83	≤-26	0.20749	≤2.5	PASS
			2441	30~2387	1964.51	-48.15	≤-26	0.01531	≤2.5	PASS
				2387~2400	2397.40	-41.09	≤-16	0.07780	≤25	PASS
				2483.5~2496.5	2489.57	-39.95	≤-16	0.10116	≤25	PASS
				2496.5~13000	4882.49	-36.77	≤-26	0.21038	≤2.5	PASS





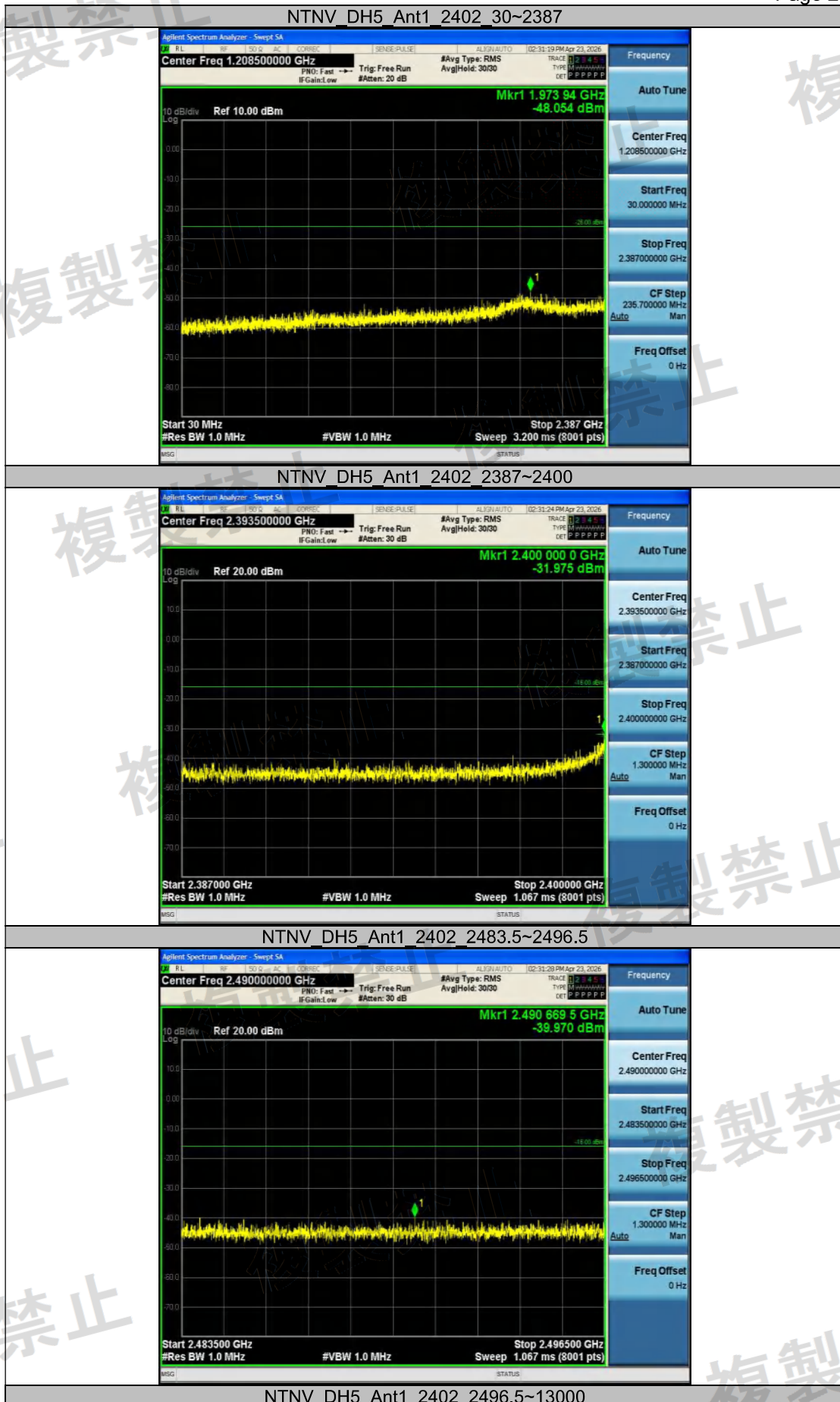
		2480	30~2387	1986.02	-47.40	≤-26	0.01820	≤2.5	PASS
			2387~2400	2394.92	-40.47	≤-16	0.08974	≤25	PASS
			2483.5~2496.5	2494.44	-39.59	≤-16	0.10990	≤25	PASS
			2496.5~13000	12386.04	-42.23	≤-26	0.05984	≤2.5	PASS

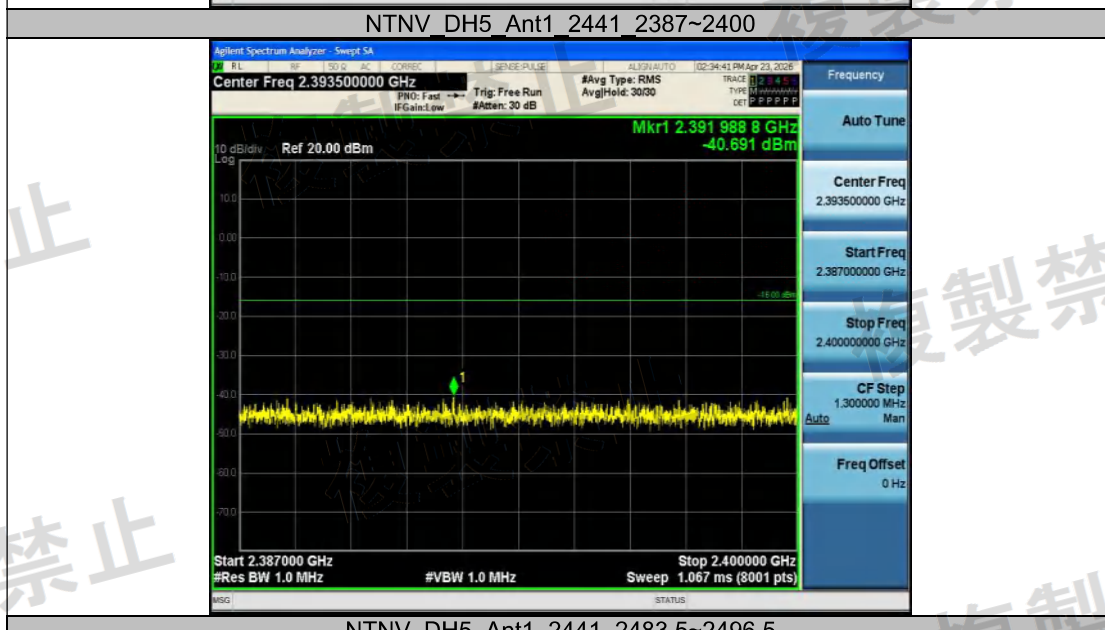
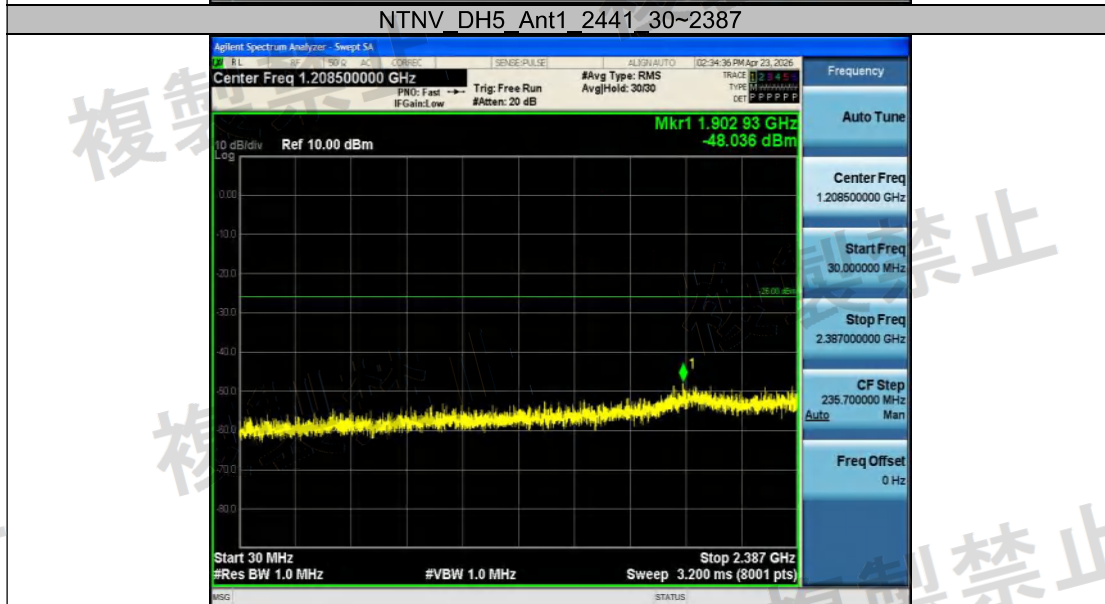
Note: 1. The product was tested at 25 °C and 55% humidity condition;

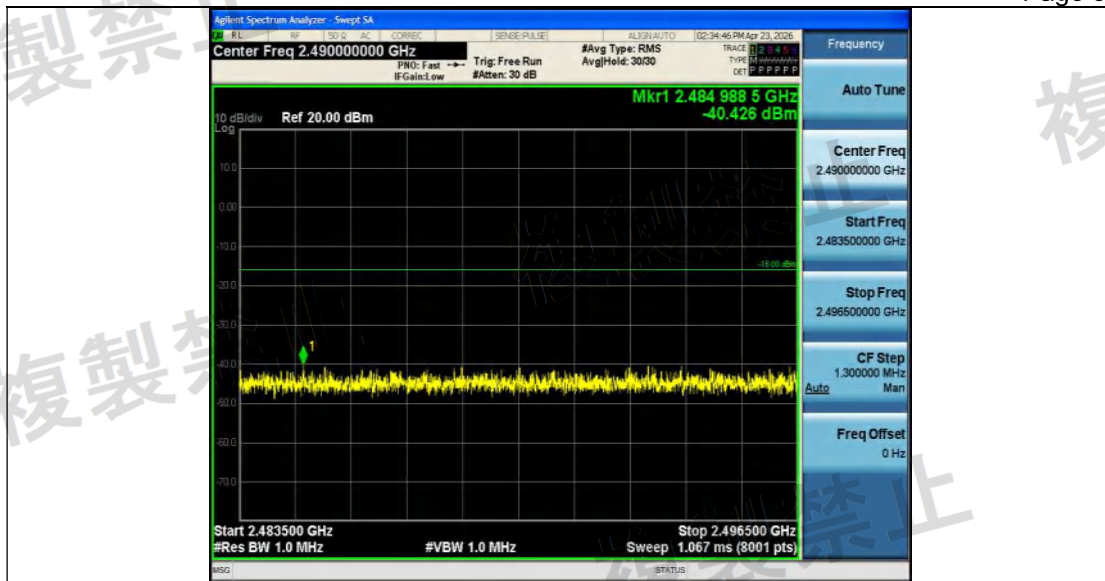
2. All condition has been tested, list the worst case in this item

3. SA set to from 2.4965GHz to 13GHz, plot shows from 2.497GHz to 13GHz as of SA's default format









NTNV_DH5_Ant1_2441_2496.5~13000

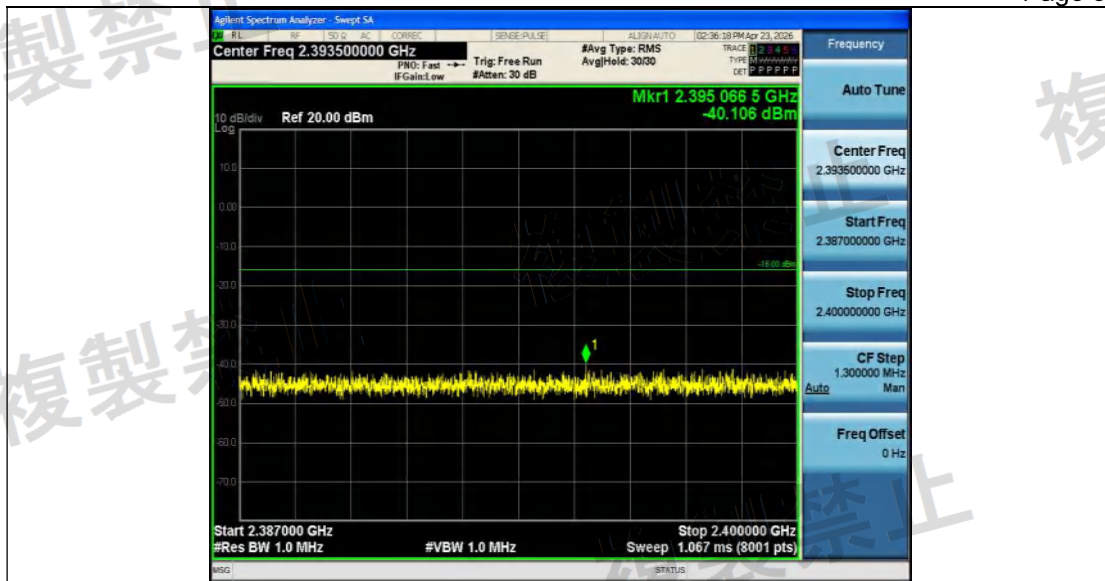


NTNV_DH5_Ant1_2480_30~2387



NTNV_DH5_Ant1_2480_2387~2400

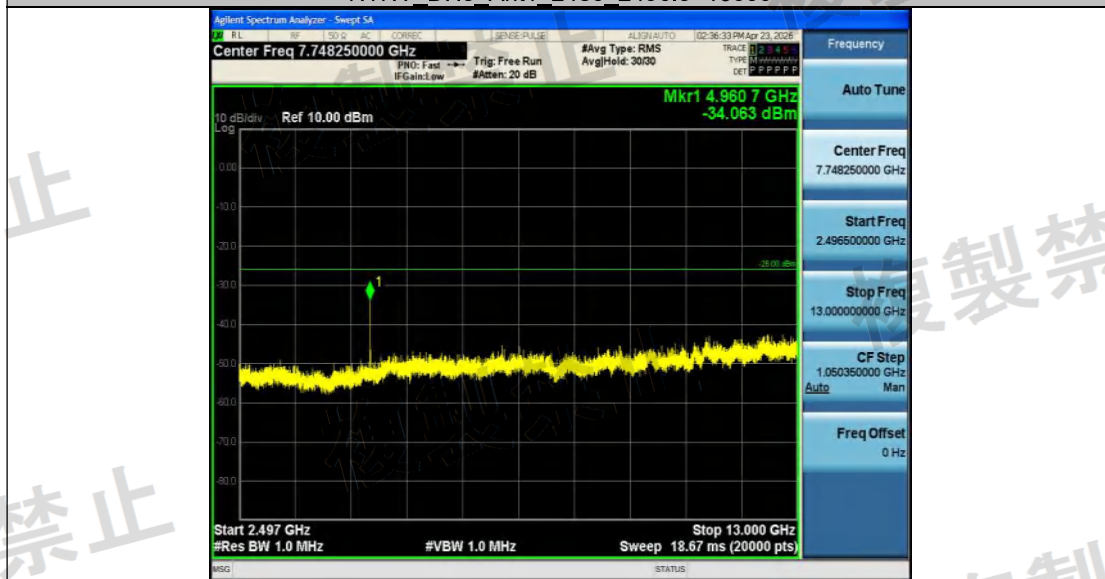




NTNV_DH5_Ant1_2480_2483.5~2496.5

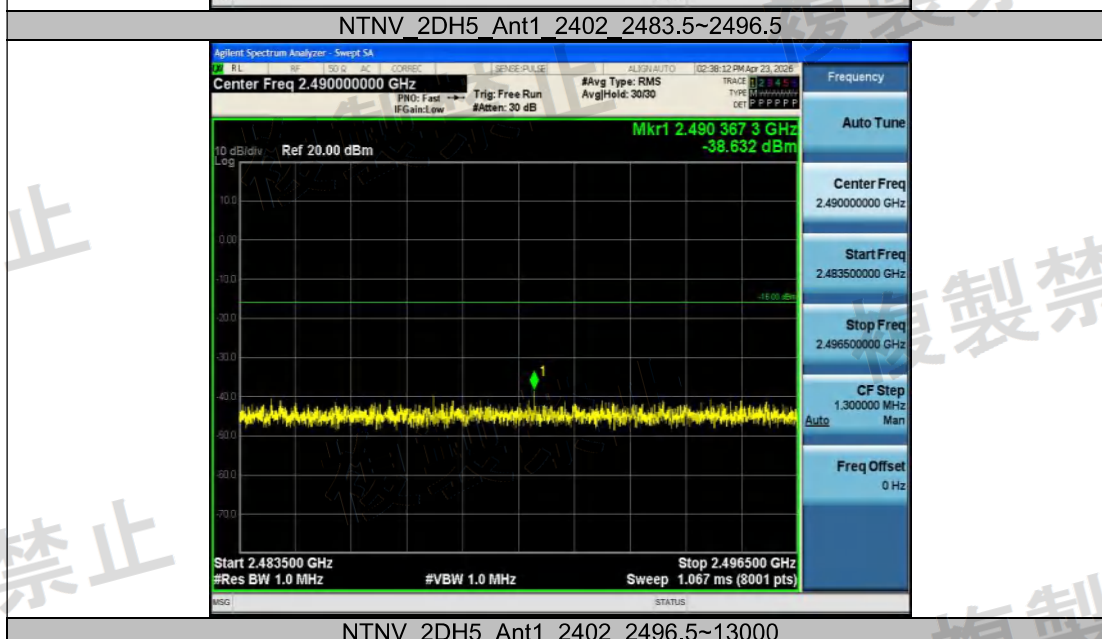
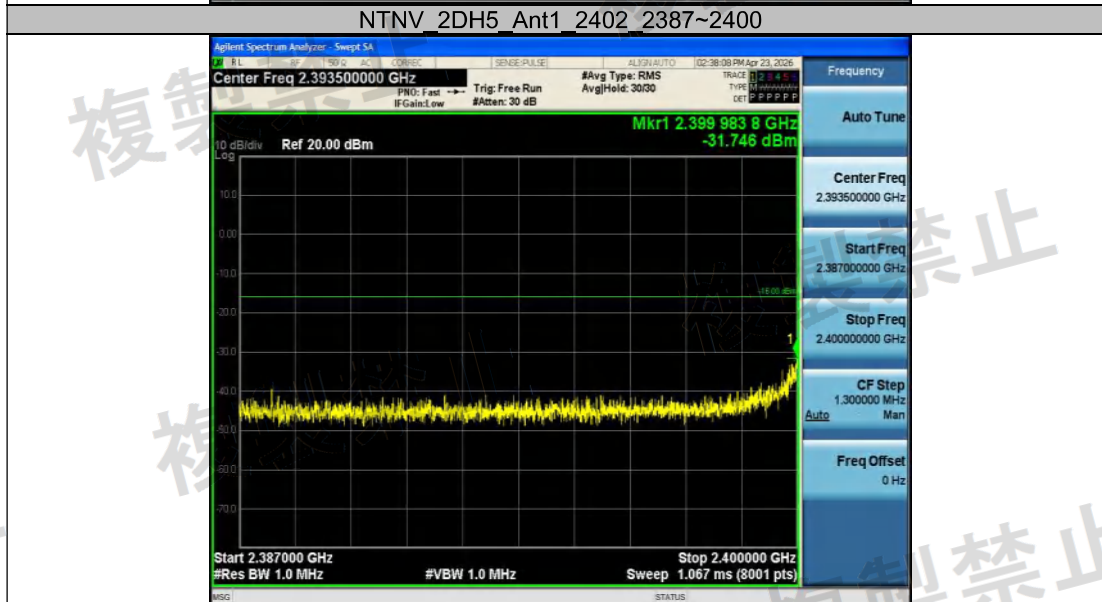
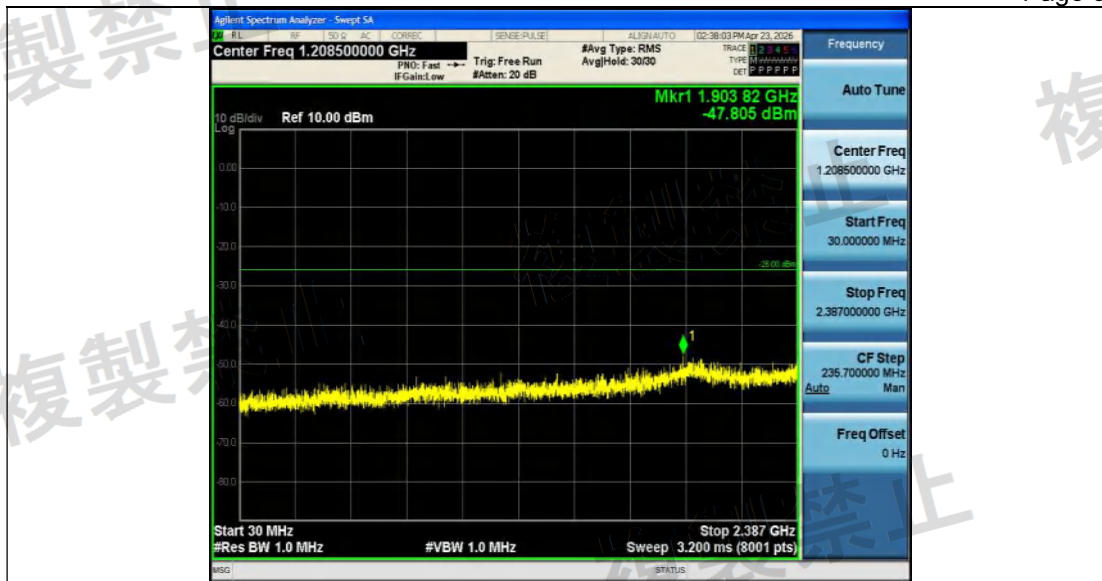


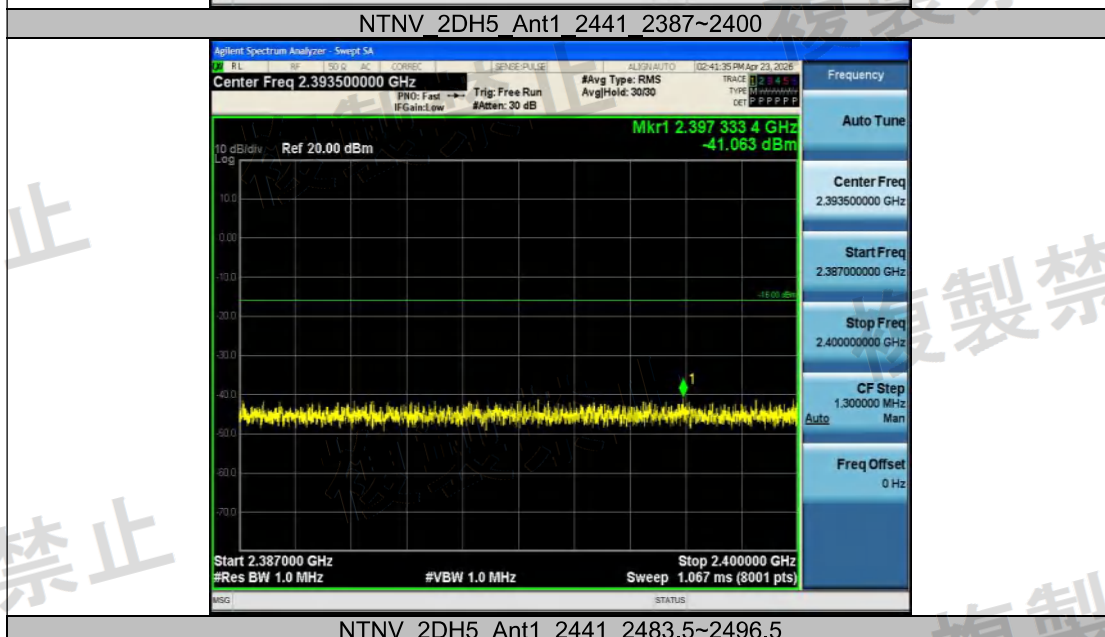
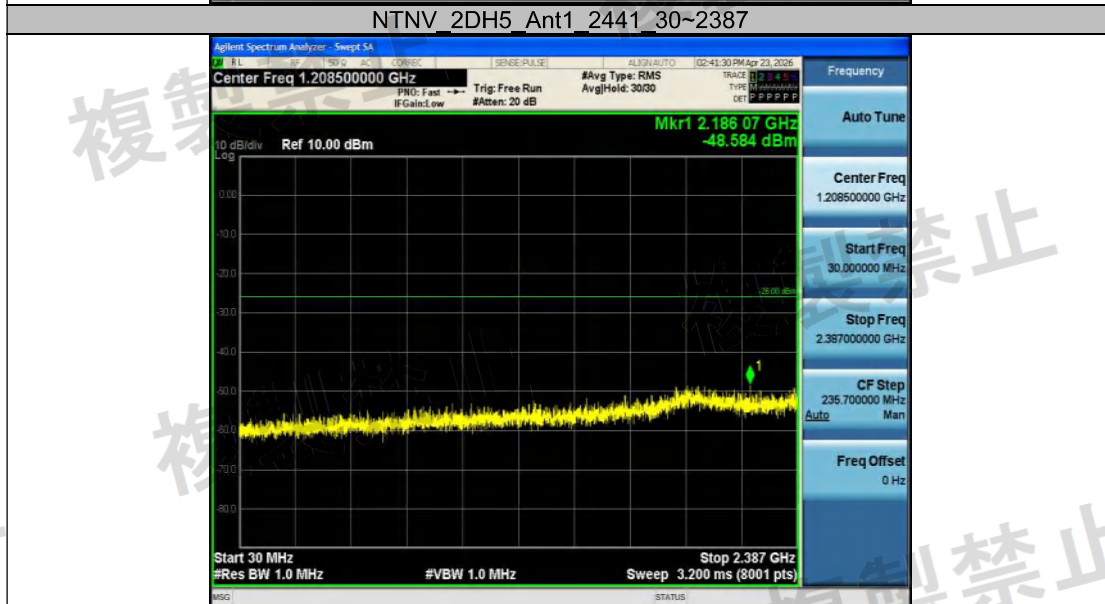
NTNV_DH5_Ant1_2480_2496.5~13000

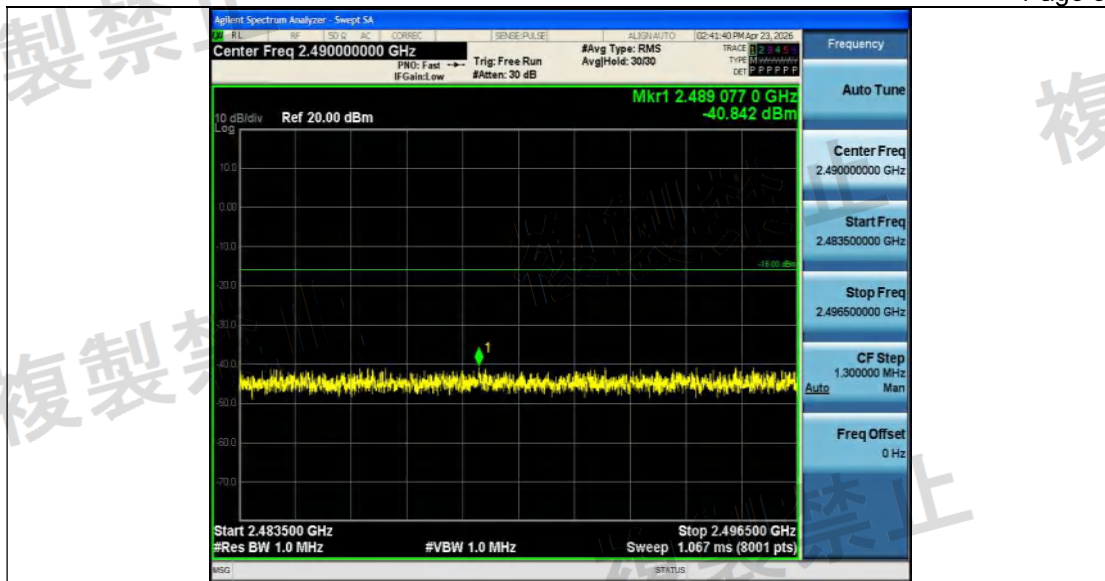


NTNV_2DH5_Ant1_2402_30~2387

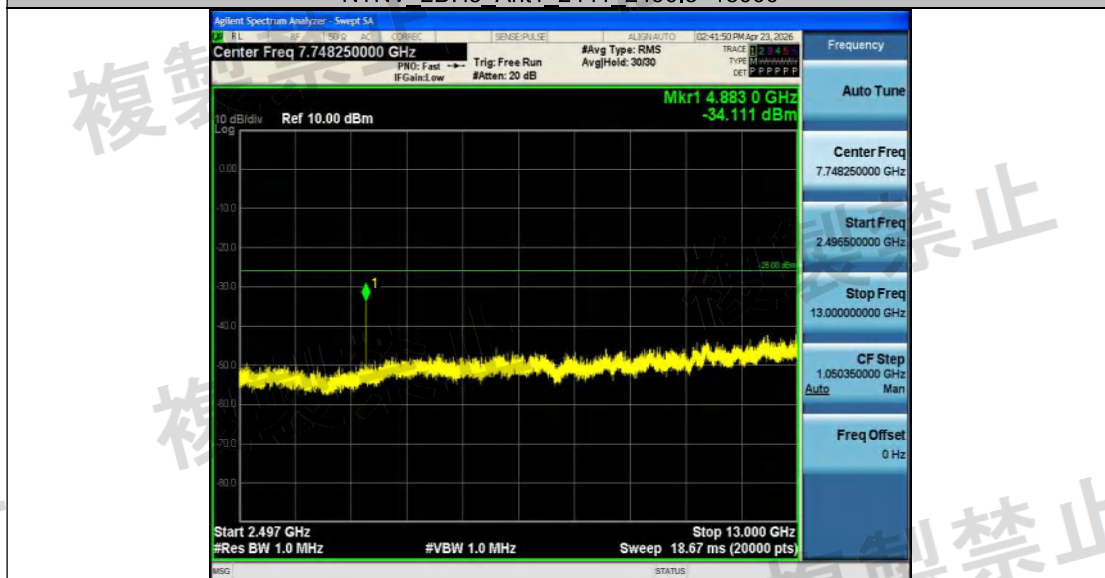








NTNV 2DH5 Ant1 2441 2496.5~13000

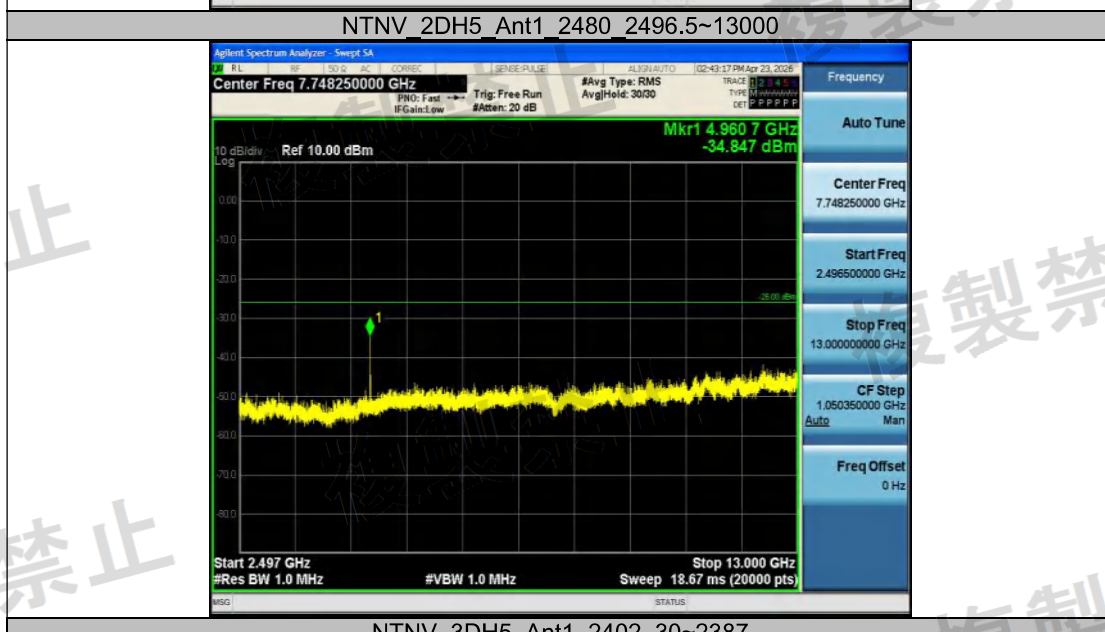
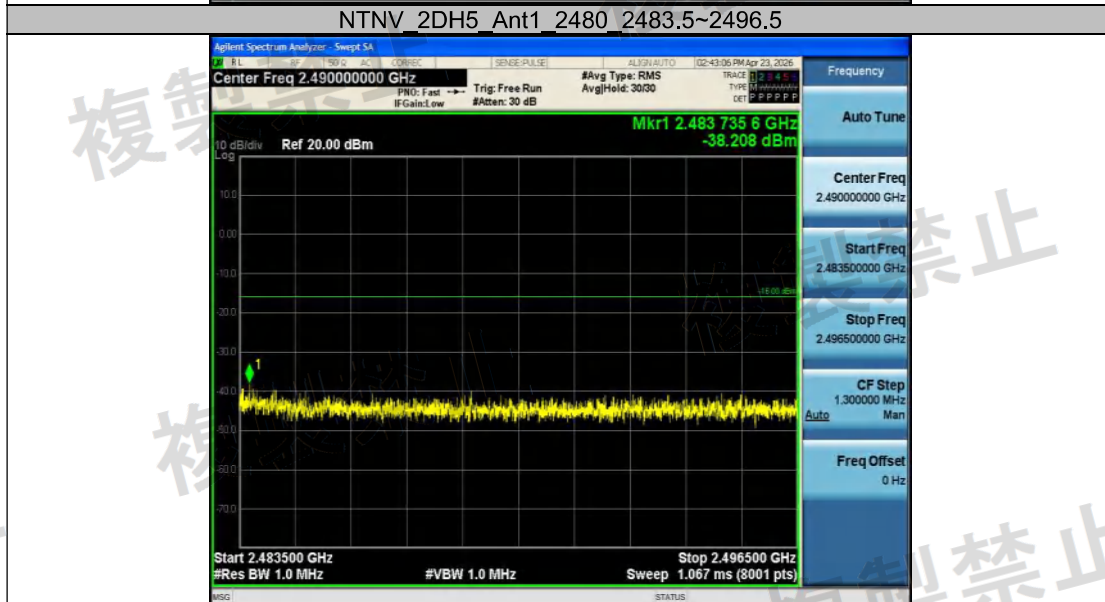
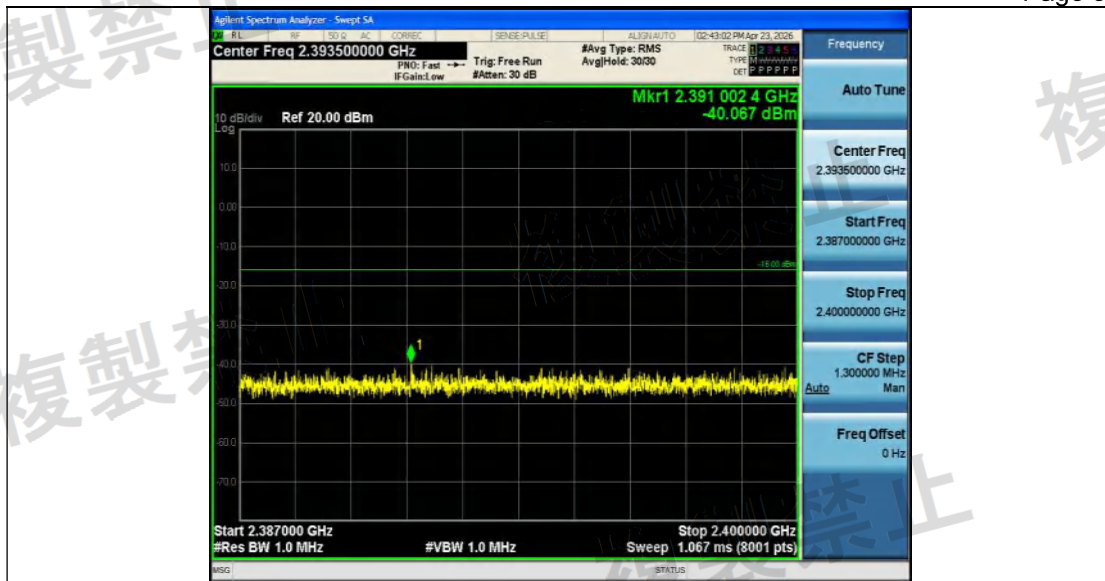


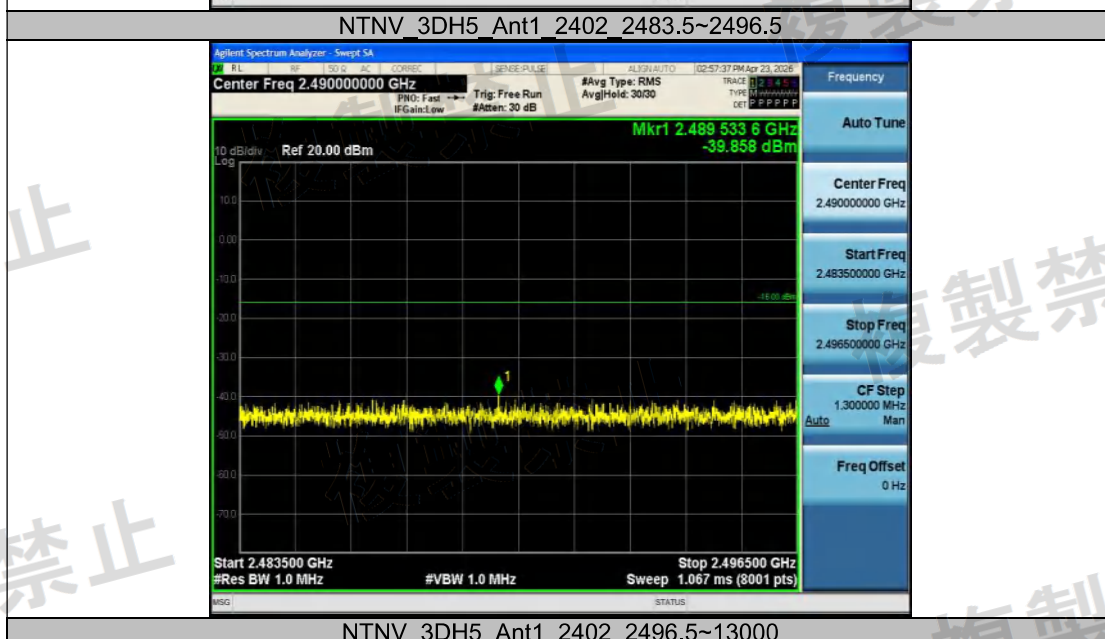
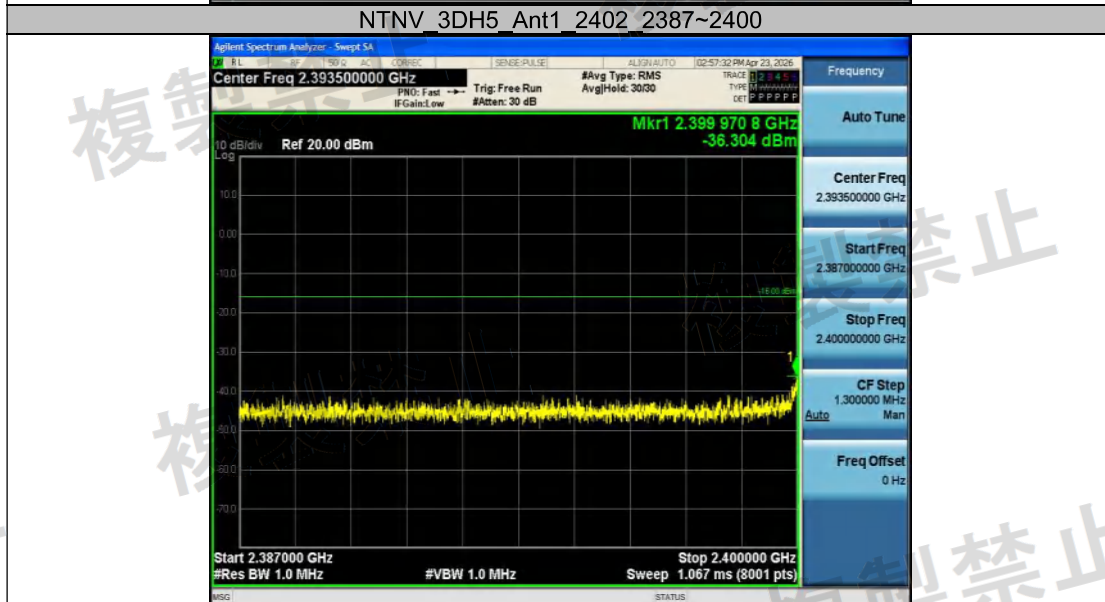
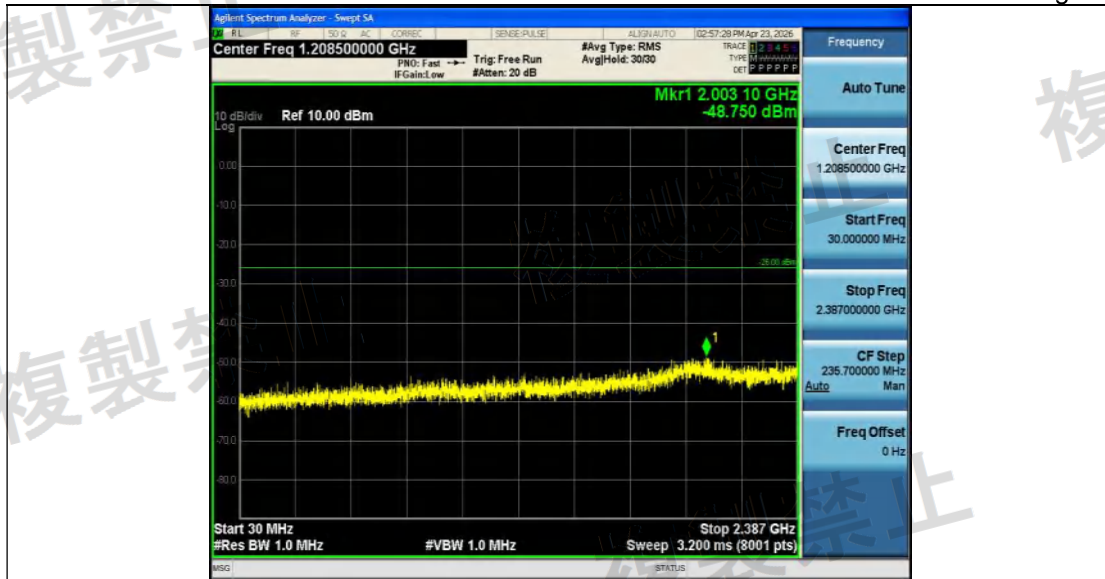
NTNV 2DH5 Ant1 2480 30~2387

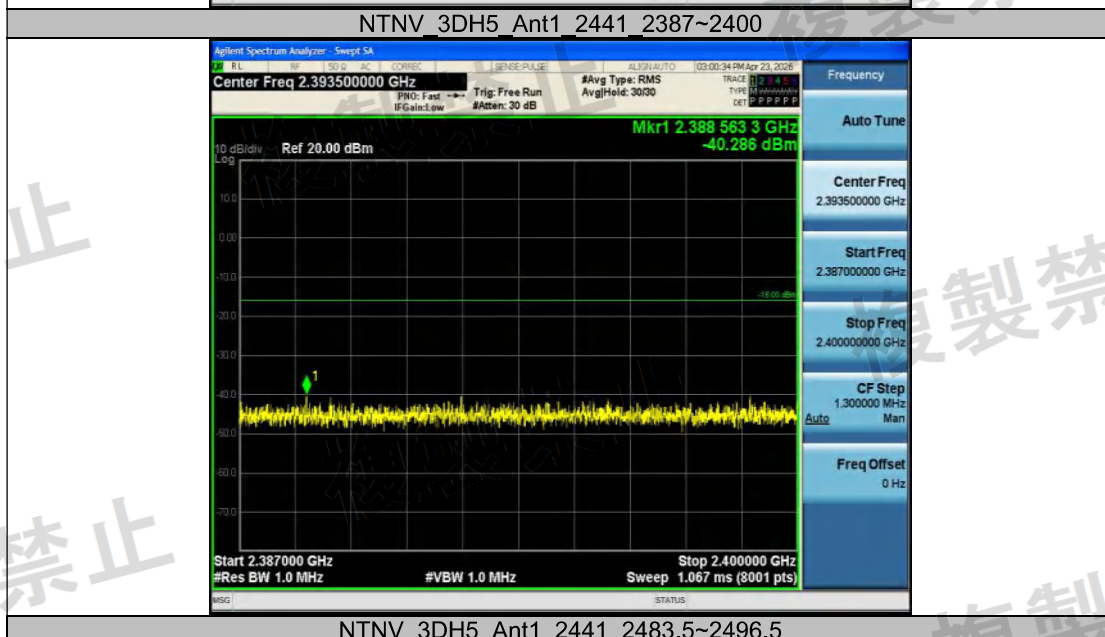
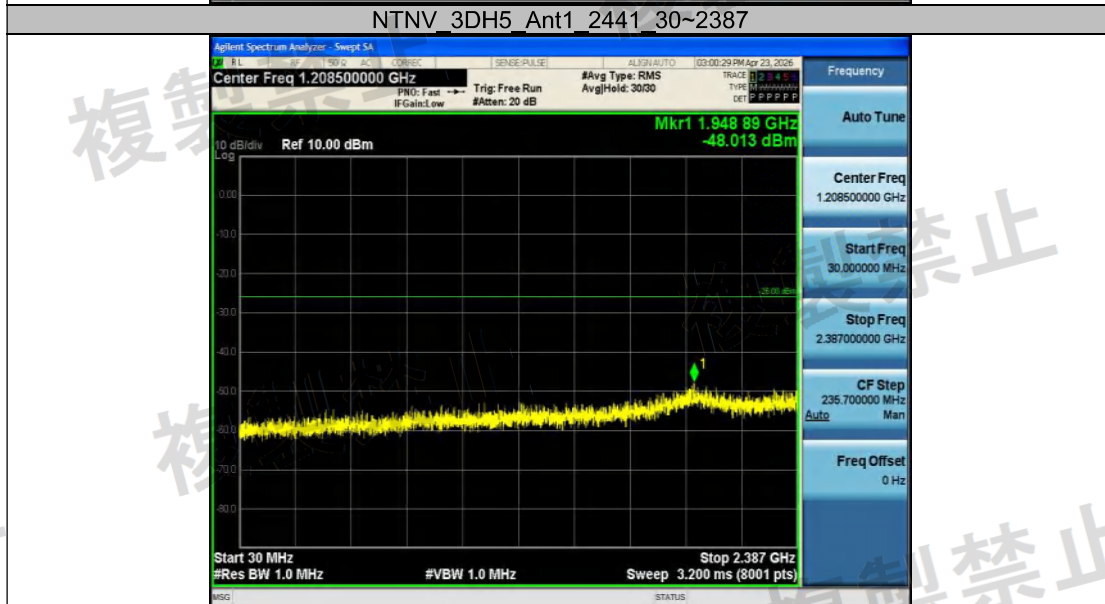


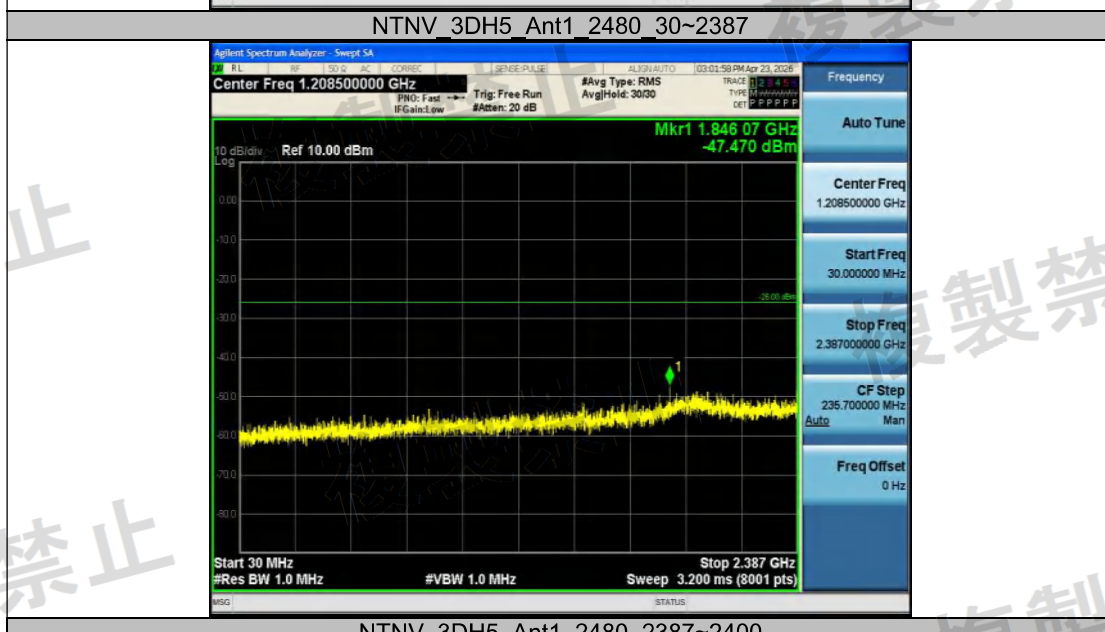
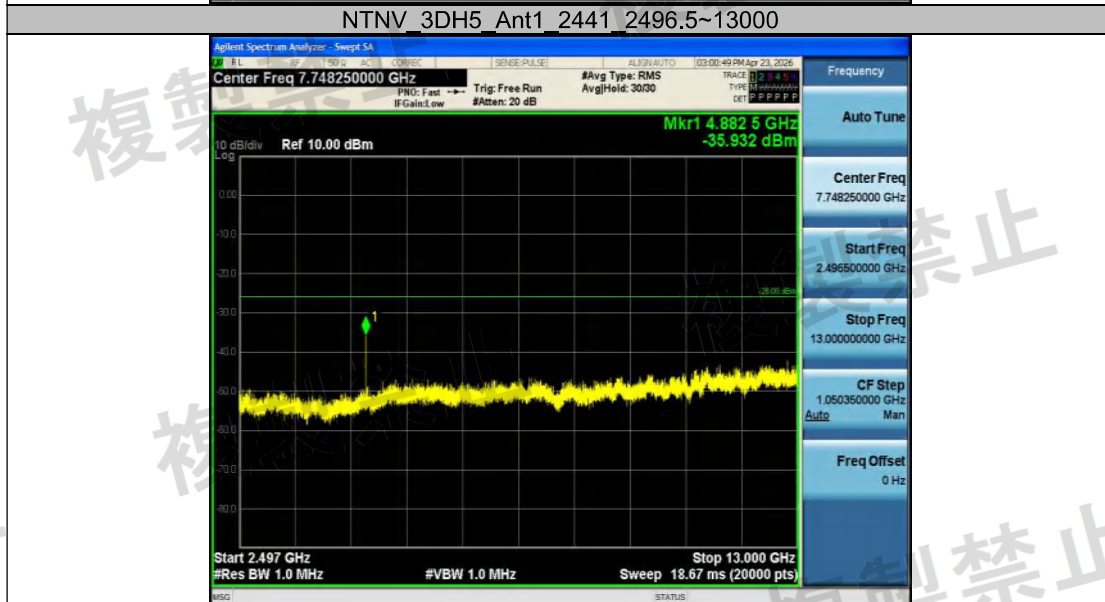
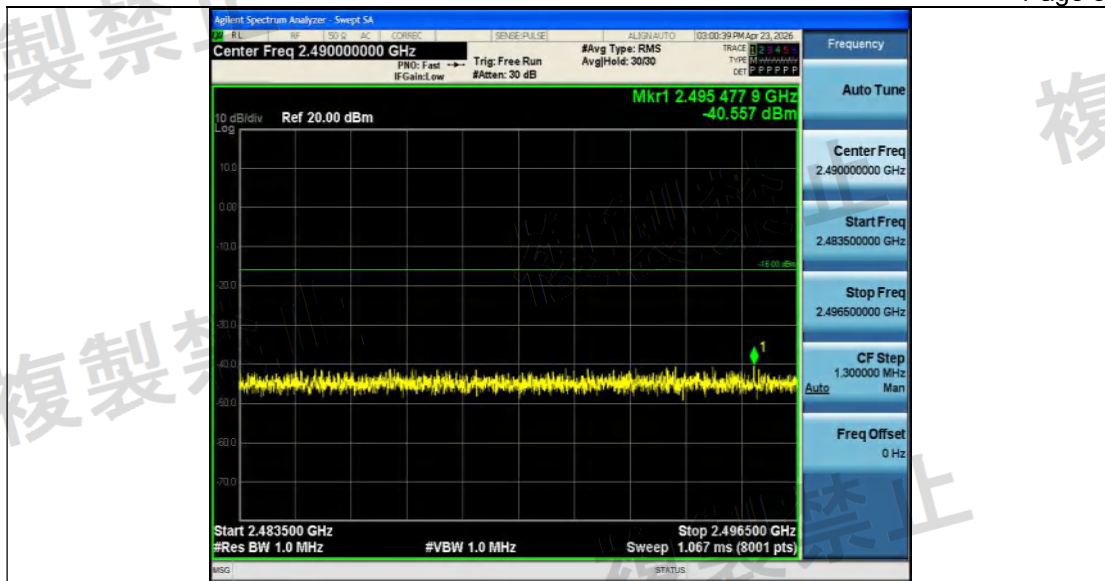
NTNV 2DH5 Ant1 2480 2387~2400

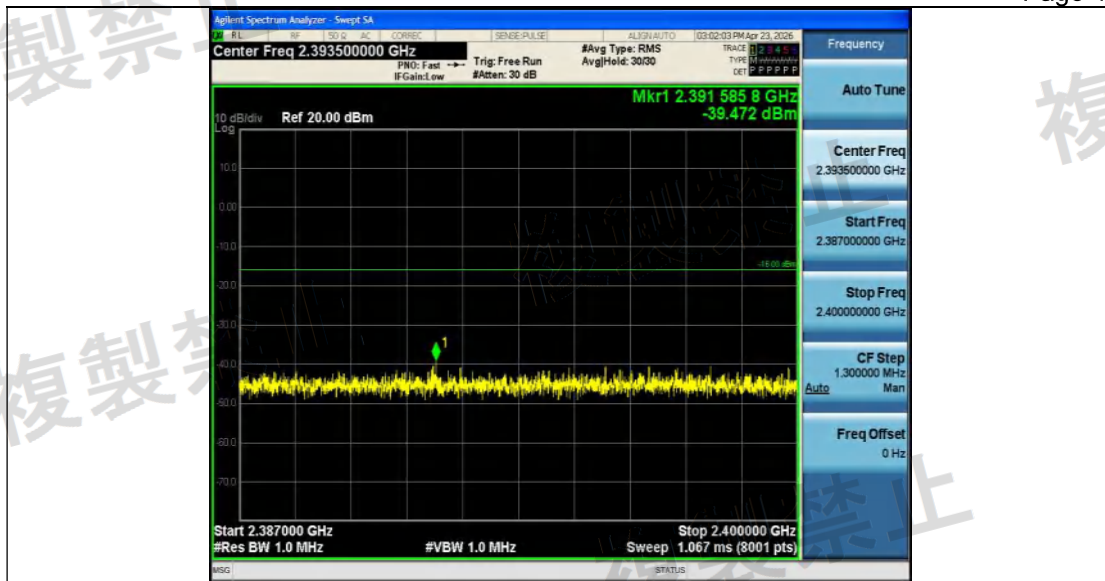




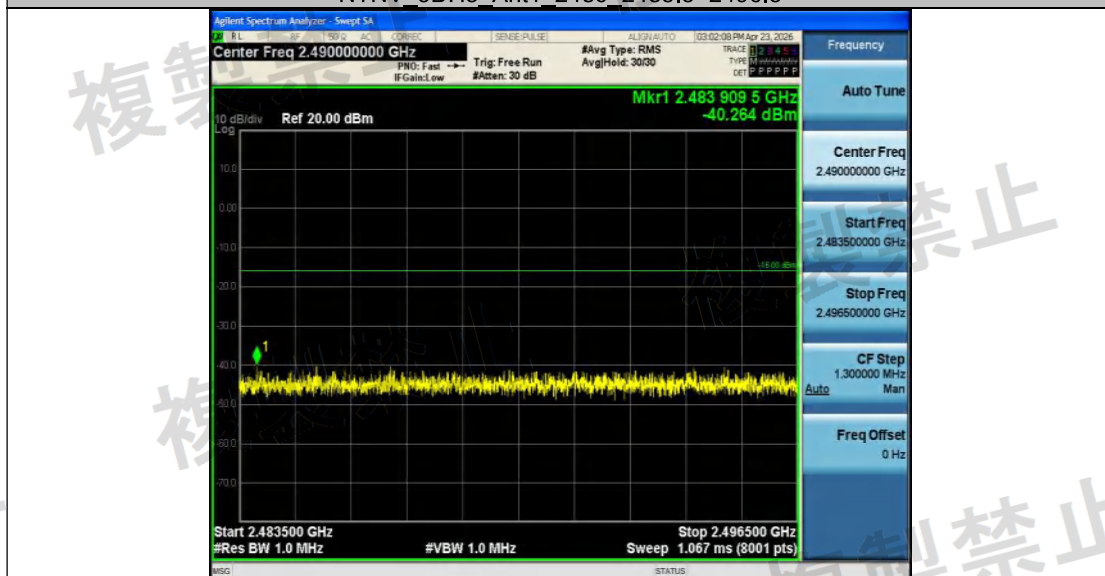




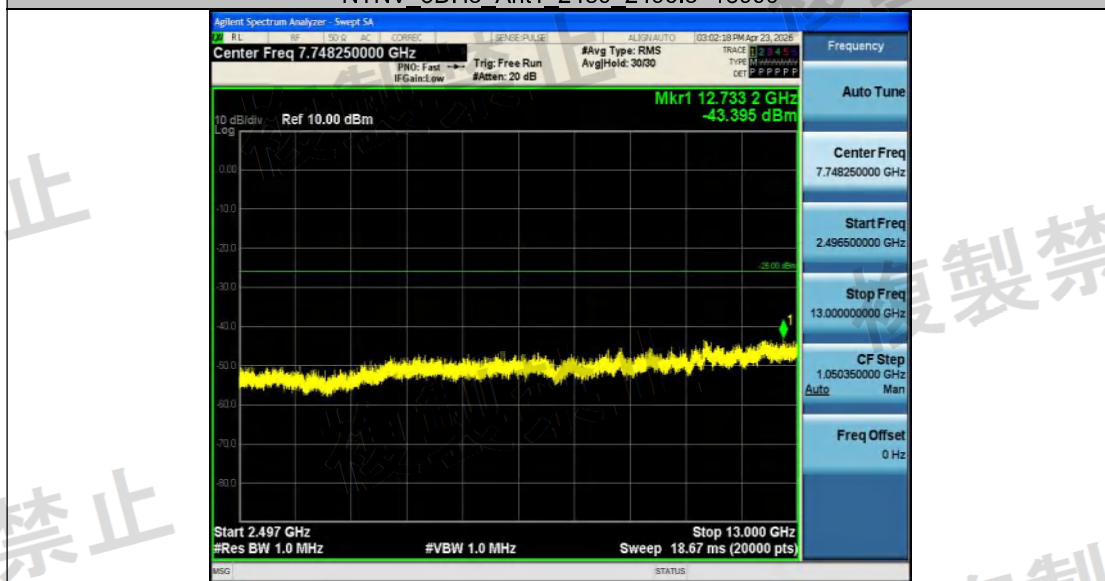




NTNV 3DH5 Ant1 2480 2483.5~2496.5



NTNV 3DH5 Ant1 2480 2496.5~13000



NTLV DH5 Ant1 2402 30~2387

