

TEST REPORT

Product Name : Wireless Access Point
Model Number : RG-AP180-PE, RG-AP180-AC,
RG-MA2610-PE, RG-MA2610-AC

Prepared for : Ruijie Networks Co., Ltd.
Address : Building 19, Juyuanzhou Industrial Park, No.618 Jinshan Road, Cangshan District, Fuzhou, Fujian, China

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Report Number : ENS2510220085W00101R
Date(s) of Tests : November 6, 2025 to January 26, 2026
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Modified Information

Version	Report No.	Revision Date	Summary
Ver.1.0	ENS2510220085W00101R	/	Original Report

TEST RESULT CERTIFICATION

Applicant : Ruijie Networks Co., Ltd.
Address : Building 19, Juyuanzhou Industrial Park, No.618 Jinshan Road, Cangshan District, Fuzhou, Fujian, China
Manufacturer : Ruijie Networks Co., Ltd.
Address : Building 19, Juyuanzhou Industrial Park, No.618 Jinshan Road, Cangshan District, Fuzhou, Fujian, China
EUT : Wireless Access Point
RG-AP180-PE, RG-AP180-AC, RG-MA2610-PE, RG-MA2610-AC
Model Name : (Note: The EUT has 4 models as the page 5 model difference description in the report, all models are tested, and find the RG-AP180-PE is the worst, so only the worst data is shown in the report.)
Trademark : **Ruijie**

Measurement Procedure Used:

APPLICABLE STANDARDS		
STANDARD	Test Procedure	TEST RESULT
Item 19 of Article 2 Paragraph 1	MIC public notice 88:2004, annex 43	PASS

The device described above is tested by EMTEK (SHENZHEN) CO., LTD. to determine the maximum emission levels emanating from the device and the severe levels of the device can endure and its performance criterion. The measurement results are contained in this test report and EMTEK (SHENZHEN) CO., LTD. is assumed full of responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT (Equipment Under Test) was measured according to the test methods of Ordinance Concerning Technical Regulations Conformity Certification etc. of Specified Radio Equipment in Annex 1, the Ministry of Internal Affairs and Communication notification in Annex "43" of Article 88, Paragraph 1 or the test method more than equivalent and the result is technically compliant with the ARIB STD T-66 requirements.

The test results of this report relate only to the tested sample identified in this report.

Date of Test : November 6, 2025 to January 26, 2026

Prepared by : Yu Xiaolan
Yu Xiaolan/Editor

Reviewer : Xia Lili
Xia Lili/Supervisor

Approved & Authorized Signer : Wang Li
Wang Li/Manager



Model difference description:

	Difference Description
RG-AP180-PE	1. Different from the power board, the power supply mode of RG-AP180(JA) is 100 ~ 120V AC power supply. 2. The antenna size and specification are slightly different, and the antenna assembly position is changed. 3. The appearance of the side of the upper cover is slightly different. 4. Differences in the appearance of the bottom shell. 5. BCM6755, a new supporting chip for CPU B
RG-AP180-AC	1. The antenna size and specification are slightly different, and the antenna assembly position is changed. 2. The appearance of the side of the upper cover is slightly different. 3. BCM6755, a new supporting chip for CPU B.
RG-MA2610-AC	1. The antenna size and specification are slightly different, and the antenna assembly position is changed. 2. The appearance of the side of the upper cover is slightly different. 3. The Flash model is different. 4. 5G FEM model is different.
RG-MA2610-PE	1. Different from the power board, the power supply mode of RG-AP180(JA) is 100 ~ 120V AC power supply. 2. The antenna size and specification are slightly different, and the antenna assembly position is changed. 3. The appearance of the side of the upper cover is slightly different 4. The appearance of the bottom shell is different. 5. The Flash model is different. 6. 5G FEM model is different.

	RG-AP180-PE (Version: V2.00)
RG-AP180-PE	1. Two supporting schemes are added for the internal heat dissipation plate. 2. The internal structure of the upper cover is slightly different, and two screw columns are added. 3. CPU switch to BCM6755. 4. Changed PHY to YT8521SC. 5. FEM model is different.

	RG-AP180-AC (Version: V2.00)
RG-AP180-AC	1. One supporting scheme is added to the internal heat dissipation plate. 2. The internal appearance of the upper cover is slightly different, and two screw posts are added. 3. CPU switch to BCM6755. 4. Changed PHY to YT8521SC. 5. 5G FEM model is different. 6. Added new power board. (Model: RA008W01-0332400, Factory: RISUNIC Technology (ShenZhen) Co., Ltd.)

	RG-AP180-PE (Version: 3.00)
RG-AP180-PE (Version: V2.00)	1. Flash: W25Q512JVFSQ changed to W25N01GVZEJR. 2. CPU: BCM6755 changed to BCM6756. 3. Added the new PoE power board.
	RG-AP180-AC (Version: V3.00)
RG-AP180-AC (Version: V2.00)	1. Flash: W25Q512JVFSQ changed to W25N01GVZEJR. 2. CPU: BCM6755 changed to BCM6756.
	RG-MA2610-AC (Version: V2.00)
RG-AP180-AC (Version: V2.00)	1. Flash: W25Q512JVFSQ changed to W25N01GVZEJR. 2. CPU: BCM6755 changed to BCM6756.
	RG-MA2610-PE (Version: V2.00)
RG-AP180-PE (Version: V2.00)	1. Flash: W25Q512JVFSQ changed to W25N01GVZEJR. 2. CPU: BCM6755 changed to BCM6756. 3. Added the new PoE power board.
	RG-MA2610-PE (Version: V2.10)
RG-MA2610-PE (Version: V2.00)	Upper cover: Changed to frosted surface. Lower cover: Changed to a frosted surface, with upper cover fixing holes on both sides.
	RG-MA2610-AC (Version: V2.10)
RG-MA2610-AC (Version: V2.00)	Upper cover: Changed to frosted surface. Lower cover: Changed to a frosted surface, with upper cover fixing holes on both sides.
	RG-AP180-PE (Version: 3.20)
RG-AP180-PE (Version: 3.00)	Upper cover: Changed to frosted surface. Lower cover: Changed to a frosted surface, with upper cover fixing holes on both sides.
	RG-AP180-AC (Version: V3.20)
RG-AP180-AC (Version: V3.00)	Upper cover: Changed to frosted surface. Lower cover: Changed to a frosted surface, with upper cover fixing holes on both sides.
	RG-AP180-PE (Version: V4.10)
RG-AP180-PE (Version: V3.20)	1. AN8801SB: U143 supports 802.3 PHY, 1000BASE-T, 100 BASE-TX and 10 BASE-T. And a 25MHz external crystal oscillation is required. 2. VC5755-31, 5G FEM, U2, U3, is used to amplify the WiFi signal of 5G and control the signal transmit. 3. Added 160MHz bandwidth.
	RG-AP180-AC (Version: V4.10)
RG-AP180-AC (Version: V3.20)	1. AN8801SB: U143 supports 802.3 PHY, 1000BASE-T, 100 BASE-TX and 10 BASE-T. And a 25MHz external crystal oscillation is required. 2. VC5755-31, 5G FEM, U2, U3, is used to amplify the WiFi signal of 5G and control the signal transmit. 3. Added 160MHz bandwidth.

	4. The power board is changed to a 2-layer board, the integrated isolation is changed to a discrete isolation, thermal conductivity adjustment, Mylar sheet adjustment, power cover adjustment.
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	RG-MA2610-PE(Version: V4.10)
RG-MA2610-PE (Version: V2.10)	1. AN8801SB: U143 supports 802.3 PHY, 1000BASE-T, 100 BASE-TX and 10 BASE-T. And a 25MHz external crystal oscillation is required. 2. VC5755-31, 5G FEM,U2,U3, is used to amplify the WiFi signal of 5G and control the signal transmit. 3. Added 160MHz bandwidth.

	RG-MA2610-AC(Version: V4.10)
RG-MA2610-AC (Version: V2.10)	1. AN8801SB: U143 supports 802.3 PHY, 1000BASE-T, 100 BASE-TX and 10 BASE-T. And a 25MHz external crystal oscillation is required. 2. VC5755-31, 5G FEM,U2,U3, is used to amplify the WiFi signal of 5G and control the signal transmit. 3. Added 160MHz bandwidth. 4. The power board is changed to a 2-layer board, the integrated isolation is changed to a discrete isolation, thermal conductivity adjustment, Mylar sheet adjustment, power cover adjustment.

	RG-AP180-PE(Version: V4.70)
RG-AP180-PE (Version: V3.20)	1. CPU: BCM6756 changed to BCM47623A

	RG-AP180-AC(Version: V4.70)
RG-AP180-AC (Version: V3.20)	1.CPU: BCM6756 changed to BCM47623A 2. Added new power board. (Model:,Factory: OP-R1680330240NA01 AMC Technology (ShenZhen) Co., Ltd.) 3. Added new power board. (Model: G1851,Factory:GOSPELL Technology (ShenZhen) Co., Ltd.)

1 EUT TECHNICAL DESCRIPTION

Product Name:	Wireless Access Point
Model Number:	RG-AP180-PE, RG-AP180-AC, RG-MA2610-PE, RG-MA2610-AC (Note: The EUT has 4 models as the page 5 model difference description in the report, all models are tested, and find the RG-AP180-PE is the worst, so only the worst data is shown in the report.)
WLAN Supported:	802.11b 802.11g 802.11n(20MHz channel bandwidth) 802.11n(40MHz channel bandwidth) 802.11ax(20MHz channel bandwidth) 802.11ax(40MHz channel bandwidth)
Modulation:	DSSS, OFDM, OFDMA
Operating Frequency Range:	2412-2472MHz for 802.11b/g/n(HT20)/ax(20) 2422-2462MHz for 802.11n(HT40)/ax(40)
Number of Channels:	13 channels for 802.11b/g/n(HT20)/ax(20) 9 Channels for 802.11n(HT40)/ax(40)
Smart System:	MIMO
Power Supply:	AC 110V/60Hz by POE (Note: The EUT can be powered through two methods, AC power or PoE, pre testing all power supplies, and find the PoE is the worst, so only the worst data is shown in the report.)
Temperature Range:	0°C~40°C

1.1 FEATURE OF EUT

a) Antenna information

Specification	Antenna	Brand	Model	Antenna Type	Gain
2.4G WIFI	1	/	/	Integrated Antenna	3.48dBi
2.4G WIFI	2	/	/	Integrated Antenna	3.45dBi
5G WIFI	1	/	/	Integrated Antenna	4.79dBi
5G WIFI	2	/	/	Integrated Antenna	5.66dBi
2.4G/5G WIFI	Beamforming	/	/	/	0.5dBi

Note: The antenna information provided by the manufacturer will have a certain impact on the test results.

b) Modification Record

There were no modifications required for compliance.

c) For more details, please refer to the user's manual of the EUT.

2 SUMMARY OF TEST RESULT

Clause	Test Parameter	Verdict	Remark
Item 19 of Article 2 Paragraph 1	Antenna Power	Pass	
Item 19 of Article 2 Paragraph 1	Frequency Error	Pass	
Item 19 of Article 2 Paragraph 1	Occupied Bandwidth (99%)	Pass	
Item 19 of Article 2 Paragraph 1	Spurious Emissions of Tx	Pass	
Item 19 of Article 2 Paragraph 1	Spurious Emissions of Rx	Pass	
Item 19 of Article 2 Paragraph 1	Interference Prevention Function	Pass	
Item 19 of Article 2 Paragraph 1	Carrier sense capability	Pass	
Item 19 of Article 2 Paragraph 1	RF accessibility	Pass	

3 TEST METHODOLOGY

3.1 GENERAL DESCRIPTION OF APPLIED STANDARDS

According to its specifications, the EUT must comply with the requirements of the following standards:
Item 19 of Article 2 Paragraph 1 of the TELEC rules for 2.4GHz band wide-band low-power data communication system. All measurements contained in this report were conducted with test method for radio equipment specified in MIC public notice 88:2004, annex 43 for certification. And measuring method for electric field intensity of radio station with remarkably weak radiowave transmitted.

3.2 MEASUREMENT EQUIPMENT USED

3.2.1 Radio Frequency Test Equipment

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval	Calibration Body	Calibration Method
Wideband Radio Communication Tester	R&S	CMW500	171168	2025/9/9	1Year	LISAI	(c)
Frequency Extender	R&S	CMW-Z800A	100430	2025/9/9	1Year	LISAI	(c)
Spectrum Analyzer	R&S	FSV3044	101289	2024/12/17 2025/12/16	1Year	LISAI	(c)
Analog Signal Generator	R&S	SMB100A	183237	2025/9/9	1Year	LISAI	(c)
Vector Signal Generator	R&S	SMM100A	101808	2025/9/9	1Year	LISAI	(c)
RF Control Unit(Power Meter)	Tonscend	JS0806-2	22C8060567	2025/9/9	1Year	LISAI	(c)
Temperature&Humidity Chamber	ESPEC	EL-02KA	12107166	2025/5/10	1 Year	LISAI	(c)
DC Power Supply	KEYSIGHT	E3642A	MY53030016	2025/9/9	1 Year	LISAI	(c)

Remark:

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

(b) Correction conducted pursuant to the provisions of Article 135 or Article 144 of the Measurement Act (Act No. 51 of 1992).

(c) Calibration conducted in countries except Japan, which shall be equivalent to the calibration conducted by the NICT or a designated calibration agency under Article 102-18 paragraph (1).

(d) Calibration, etc. conducted by using measuring instruments and other equipment listed in the right column of appended table No. 3, which shall have been given any type of calibration, etc. listed above from (a) to (c).

From JRL Article 24-2, paragraph 4, Item 2.

3.3 DESCRIPTION OF TEST MODES

The EUT has been tested under its typical operating condition.

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

The Transmitter was operated in the normal operating mode. The TX frequency was fixed which was for the purpose of the measurements.

Test of channel included the lowest and middle and highest frequency to perform the test, then record on this report.

Pre-defined engineering program for regulatory testing used to control the EUT for staying in continuous transmitting and receiving mode is programmed.

Frequency and Channels list for 802.11b/g/n(HT20)/ax(HT20):

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

Frequency and Channels list for 802.11n(HT40)/ax(HT40):

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
3	2422	6	2437	9	2452
4	2427	7	2442	10	2457
5	2432	8	2447	11	2462

Test Frequency and Channels for 802.11b/g/n(HT20)/ax(HT20):

Lowest Frequency		Middle Frequency		Highest Frequency	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2412	7	2442	13	2472

Test Frequency and channels for 802.11n(HT40)/ax(HT40):

Lowest Frequency		Middle Frequency		Highest Frequency	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
3	2422	7	2442	11	2462

3.4 SUPPORT EQUIPMENT

POE : Model: EWPAM1NPOE
Input: 100-240V~50/60Hz
Output: 48V, 0.74A

Notes:

1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

4 FACILITIES AND ACCREDITATIONS

4.1 FACILITIES

All measurement facilities used to collect the measurement data are located at Building 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, China. The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.4 and CISPR Publication 22."

4.2 LABORATORY ACCREDITATIONS AND LISTINGS

Site Description EMC Lab.	: The Certificate Registration Number is L2291. The Laboratory has been assessed and proved to be in compliance with CNAS-CL01 (identical to ISO/IEC 17025:2017)
3m Chamber #1	: Certificated by VCCI, Japan Registration No.: R-12777 Registration No.: G-20141
10m Chamber	: Certificated by VCCI, Japan Registration No.: R-14410
Shielding Room #1	: Certificated by VCCI, Japan Registration No.: C-13065 Registration No.: T-11318
Name of Firm	: EMTEK (SHENZHEN) CO., LTD.
Site Location	: Building 69, Majialong, Industry Zone, Nanshan District, Shenzhen, Guangdong, China

5 TEST SYSTEM UNCERTAINTY

The following measurement uncertainty levels have been estimated for tests performed on the apparatus:

Parameter	Uncertainty
Radio Frequency	$\pm 1 \times 10^{-5}$
Uncertainty for Output power test	$\pm 0.83\text{dB}$
Conducted Emissions Test	$\pm 2.0\text{dB}$
Radiated Emission Test	$\pm 2.0\text{dB}$
Occupied Bandwidth Test	$\pm 1.0\text{dB}$
Power density test	$\pm 1.85\text{dB}$
All emission, radiated	$\pm 3\text{dB}$
Antenna Port Emission	$\pm 3\text{dB}$
Temperature	$\pm 0.5^\circ\text{C}$
Humidity	$\pm 3\%$

Measurement Uncertainty for a level of Confidence of 95%

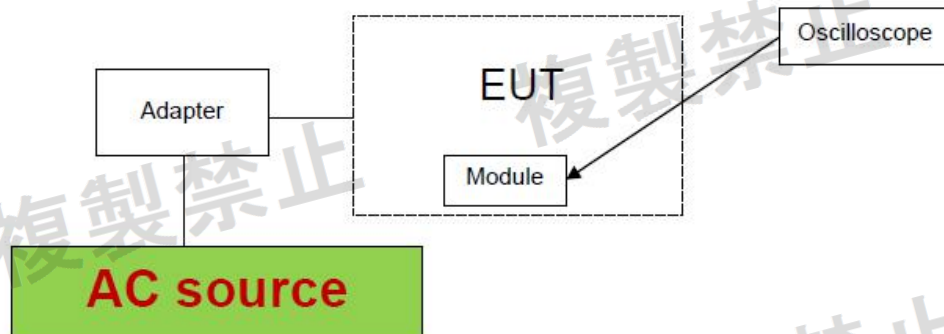
6 WIRELESS MODULE VOLTAGE TEST IN EXTREME CONDITIONS

6.1 Applicable Standard

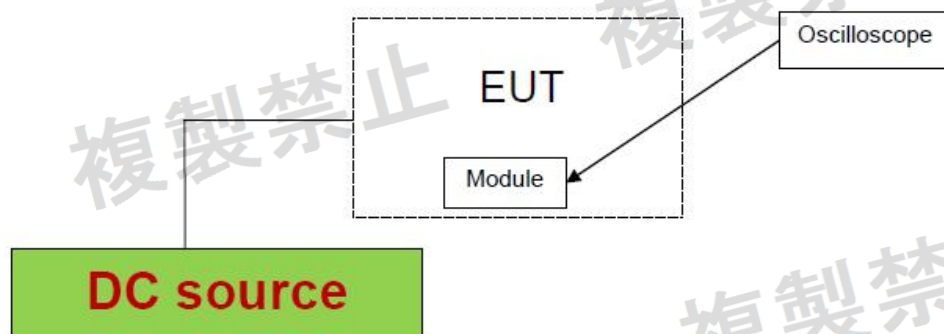
When there is a fluctuation of $\pm 10\%$ input voltage from external power to the test equipment. If the fluctuation of input voltage to the circuit of the radio part (excl. power) in the test equipment is confirmed below $\pm 1\%$, Measurement shall be tested with the rated voltage.

6.2 Test Configuration

Config A



Config B



6.3 Test Results

Temperature : 24.5°C Test By: GJ
 Humidity : 43 % Atmospheric Pressure: 101KPa

Test Sample DC Input Voltage	43.2V	48V	52.8V
Input Voltage To The Circuit	3.30	3.29	3.32
Module Rated Voltage	3.30	3.30	3.30
The Deviation of Module Voltage (%)	0.00%	0.00%	0.00%

Note: In extreme conditions, The test sample module power is confirmed below $\pm 1\%$.

7 TEST REQUIREMENTS

7.1 ANTENNA POWER

7.1.1 Applicable Standard

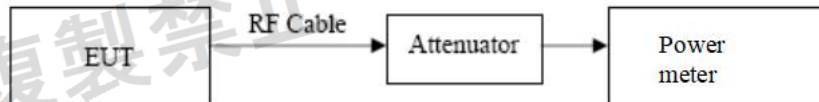
According to Equipment Regulations, art. 49.20.

7.1.2 Conformance Limit

The max permitted antenna power density shall not exceed 10mW/MHz and deviation of power density shall be less than 20% of declared power density.

Eirp: not exceed 12.14dBm/ MHz(OFDM.DS form 2400-2483.5 MHz)

7.1.3 Test Setup Block Diagram



7.1.4 Test Procedure

Set the EUT on the test frequency and the consecutive TX mode or continuous (constant period, constant burst length) burst TX mode.

In case of spreading code used, set on the test spreading code, then the modulation is performed with standard coding test signal.

(a) Connect a high-frequency power meter to the output of EUT and measure the total power.

(b) Antenna power shall be as follows.

a. Value of a for continuous wave

b. Burst wave The average power in the burst is calculated from the value of (a) and the transmission time rate.

7.1.5 Environmental Conditions

Temperature:	24.5°C
Relative Humidity:	45%
ATM Pressure:	1011 mbar

7.1.6 Test Results

Power Level Setting

802.11 b (SISO)	20M: 56
802.11 g (SISO)	20M: 64
802.11 n (MIMO)	20M: 56 40M: 56
802.11 ax (MIMO)	20M: 56 40M: 56

(1) Non Beamforming

Test Condition	Test Mode	Antenna	Frequency [MHz]	Result (dBm/MHz)	Result (mW/MHz)	Limit (mW/MHz)	Verdict
NTNV	11B	Ant1	2412	6.98	4.9888	≤10	PASS
NTNV	11B	Ant2	2412	7.75	5.9566	≤10	PASS
NTNV	11B	Ant1	2442	6.86	4.8529	≤10	PASS
NTNV	11B	Ant2	2442	7.63	5.7943	≤10	PASS
NTNV	11B	Ant1	2472	6.79	4.7753	≤10	PASS
NTNV	11B	Ant2	2472	7.39	5.4828	≤10	PASS
NTNV	11G	Ant1	2412	3.81	2.4044	≤10	PASS
NTNV	11G	Ant2	2412	3.90	2.4547	≤10	PASS
NTNV	11G	Ant1	2442	3.64	2.3121	≤10	PASS
NTNV	11G	Ant2	2442	3.59	2.2856	≤10	PASS
NTNV	11G	Ant1	2472	3.71	2.3496	≤10	PASS
NTNV	11G	Ant2	2472	3.93	2.4717	≤10	PASS
NTNV	11N20MIMO	Ant1	2412	1.63	1.4555	≤10	PASS
NTNV	11N20MIMO	Ant2	2412	1.81	1.5171	≤10	PASS
NTNV	11N20MIMO	total	2412	4.73	2.9726	≤10	PASS
NTNV	11N20MIMO	Ant1	2442	1.57	1.4355	≤10	PASS
NTNV	11N20MIMO	Ant2	2442	1.85	1.5311	≤10	PASS
NTNV	11N20MIMO	total	2442	4.72	2.9666	≤10	PASS
NTNV	11N20MIMO	Ant1	2472	1.50	1.4125	≤10	PASS
NTNV	11N20MIMO	Ant2	2472	1.66	1.4655	≤10	PASS
NTNV	11N20MIMO	total	2472	4.59	2.8780	≤10	PASS
NTNV	11N40MIMO	Ant1	2422	-1.38	0.7278	≤5	PASS
NTNV	11N40MIMO	Ant2	2422	-0.92	0.8091	≤5	PASS
NTNV	11N40MIMO	total	2422	1.87	1.5369	≤5	PASS
NTNV	11N40MIMO	Ant1	2442	-0.91	0.8110	≤5	PASS
NTNV	11N40MIMO	Ant2	2442	-1.57	0.6966	≤5	PASS
NTNV	11N40MIMO	total	2442	1.78	1.5076	≤5	PASS
NTNV	11N40MIMO	Ant1	2462	-1.46	0.7145	≤5	PASS
NTNV	11N40MIMO	Ant2	2462	-1.18	0.7621	≤5	PASS
NTNV	11N40MIMO	total	2462	1.69	1.4766	≤5	PASS
NTNV	11AX20MIMO	Ant1	2412	1.61	1.4488	≤10	PASS
NTNV	11AX20MIMO	Ant2	2412	1.64	1.4588	≤10	PASS
NTNV	11AX20MIMO	total	2412	4.64	2.9076	≤10	PASS
NTNV	11AX20MIMO	Ant1	2442	1.31	1.3521	≤10	PASS
NTNV	11AX20MIMO	Ant2	2442	1.42	1.3868	≤10	PASS
NTNV	11AX20MIMO	total	2442	4.38	2.7389	≤10	PASS
NTNV	11AX20MIMO	Ant1	2472	1.62	1.4521	≤10	PASS
NTNV	11AX20MIMO	Ant2	2472	1.44	1.3932	≤10	PASS
NTNV	11AX20MIMO	total	2472	4.54	2.8453	≤10	PASS
NTNV	11AX40MIMO	Ant1	2422	-0.91	0.8110	≤5	PASS
NTNV	11AX40MIMO	Ant2	2422	-0.91	0.8110	≤5	PASS
NTNV	11AX40MIMO	total	2422	2.10	1.6220	≤5	PASS
NTNV	11AX40MIMO	Ant1	2442	-1.14	0.7691	≤5	PASS
NTNV	11AX40MIMO	Ant2	2442	-0.84	0.8241	≤5	PASS
NTNV	11AX40MIMO	total	2442	2.02	1.5932	≤5	PASS
NTNV	11AX40MIMO	Ant1	2462	-1.00	0.7943	≤5	PASS
NTNV	11AX40MIMO	Ant2	2462	-1.28	0.7447	≤5	PASS
NTNV	11AX40MIMO	total	2462	1.87	1.5390	≤5	PASS

Test Condition	Test Mode	Antenna	Frequency [MHz]	Result (dBm/MHz)	EIRP (dBm/MHz)	Limit (dBm/MHz)	Verdict
NTNV	11B	Ant1	2412	6.98	10.46	≤12.14	PASS
NTNV	11B	Ant2	2412	7.75	11.20	≤12.14	PASS
NTNV	11B	Ant1	2442	6.86	10.34	≤12.14	PASS
NTNV	11B	Ant2	2442	7.63	11.08	≤12.14	PASS
NTNV	11B	Ant1	2472	6.79	10.27	≤12.14	PASS
NTNV	11B	Ant2	2472	7.39	10.84	≤12.14	PASS
NTNV	11G	Ant1	2412	3.81	7.29	≤12.14	PASS
NTNV	11G	Ant2	2412	3.90	7.35	≤12.14	PASS
NTNV	11G	Ant1	2442	3.64	7.12	≤12.14	PASS
NTNV	11G	Ant2	2442	3.59	7.04	≤12.14	PASS
NTNV	11G	Ant1	2472	3.71	7.19	≤12.14	PASS
NTNV	11G	Ant2	2472	3.93	7.38	≤12.14	PASS
NTNV	11N20MIMO	Ant1	2412	1.63	5.11	≤12.14	PASS
NTNV	11N20MIMO	Ant2	2412	1.81	5.26	≤12.14	PASS
NTNV	11N20MIMO	total	2412	4.73	8.20	≤12.14	PASS
NTNV	11N20MIMO	Ant1	2442	1.57	5.05	≤12.14	PASS
NTNV	11N20MIMO	Ant2	2442	1.85	5.30	≤12.14	PASS
NTNV	11N20MIMO	total	2442	4.72	8.19	≤12.14	PASS
NTNV	11N20MIMO	Ant1	2472	1.50	4.98	≤12.14	PASS
NTNV	11N20MIMO	Ant2	2472	1.66	5.11	≤12.14	PASS
NTNV	11N20MIMO	total	2472	4.59	8.06	≤12.14	PASS
NTNV	11N40MIMO	Ant1	2422	-1.38	2.10	≤9.13	PASS
NTNV	11N40MIMO	Ant2	2422	-0.92	2.53	≤9.13	PASS
NTNV	11N40MIMO	total	2422	1.87	5.33	≤9.13	PASS
NTNV	11N40MIMO	Ant1	2442	-0.91	2.57	≤9.13	PASS
NTNV	11N40MIMO	Ant2	2442	-1.57	1.88	≤9.13	PASS
NTNV	11N40MIMO	total	2442	1.78	5.25	≤9.13	PASS
NTNV	11N40MIMO	Ant1	2462	-1.46	2.02	≤9.13	PASS
NTNV	11N40MIMO	Ant2	2462	-1.18	2.27	≤9.13	PASS
NTNV	11N40MIMO	total	2462	1.69	5.16	≤9.13	PASS
NTNV	11AX20MIMO	Ant1	2412	1.61	5.09	≤12.14	PASS
NTNV	11AX20MIMO	Ant2	2412	1.64	5.09	≤12.14	PASS
NTNV	11AX20MIMO	total	2412	4.64	8.10	≤12.14	PASS
NTNV	11AX20MIMO	Ant1	2442	1.31	4.79	≤12.14	PASS
NTNV	11AX20MIMO	Ant2	2442	1.42	4.87	≤12.14	PASS
NTNV	11AX20MIMO	total	2442	4.38	7.84	≤12.14	PASS
NTNV	11AX20MIMO	Ant1	2472	1.62	5.10	≤12.14	PASS
NTNV	11AX20MIMO	Ant2	2472	1.44	4.89	≤12.14	PASS
NTNV	11AX20MIMO	total	2472	4.54	8.01	≤12.14	PASS
NTNV	11AX40MIMO	Ant1	2422	-0.91	2.57	≤9.13	PASS
NTNV	11AX40MIMO	Ant2	2422	-0.91	2.54	≤9.13	PASS
NTNV	11AX40MIMO	total	2422	2.10	5.57	≤9.13	PASS
NTNV	11AX40MIMO	Ant1	2442	-1.14	2.34	≤9.13	PASS
NTNV	11AX40MIMO	Ant2	2442	-0.84	2.61	≤9.13	PASS
NTNV	11AX40MIMO	total	2442	2.02	5.49	≤9.13	PASS
NTNV	11AX40MIMO	Ant1	2462	-1.00	2.48	≤9.13	PASS
NTNV	11AX40MIMO	Ant2	2462	-1.28	2.17	≤9.13	PASS
NTNV	11AX40MIMO	total	2462	1.87	5.34	≤9.13	PASS

Test Condition	Test Mode	Antenna	Frequency [MHz]	Power (mW/MHz)	RatedPower (mW/MHz)	Result (%)	Limit (%)	Verdict
NTNV	11B	Ant1	2412	4.9888	10	-50.11	20	PASS
NTNV	11B	Ant2	2412	5.9566	10	-40.43	20	PASS
NTNV	11B	Ant1	2442	4.8529	10	-51.47	20	PASS
NTNV	11B	Ant2	2442	5.7943	10	-42.06	20	PASS
NTNV	11B	Ant1	2472	4.7753	10	-52.25	20	PASS
NTNV	11B	Ant2	2472	5.4828	10	-45.17	20	PASS
NTNV	11G	Ant1	2412	2.4044	10	-75.96	20	PASS
NTNV	11G	Ant2	2412	2.4547	10	-75.45	20	PASS
NTNV	11G	Ant1	2442	2.3121	10	-76.88	20	PASS
NTNV	11G	Ant2	2442	2.2856	10	-77.14	20	PASS
NTNV	11G	Ant1	2472	2.3496	10	-76.50	20	PASS
NTNV	11G	Ant2	2472	2.4717	10	-75.28	20	PASS
NTNV	11N20MIMO	total	2412	2.9726	10	-70.27	20	PASS
NTNV	11N20MIMO	total	2442	2.9666	10	-70.33	20	PASS
NTNV	11N20MIMO	total	2472	2.8780	10	-71.22	20	PASS
NTNV	11N40MIMO	total	2422	1.5369	5	-69.26	20	PASS
NTNV	11N40MIMO	total	2442	1.5076	5	-69.85	20	PASS
NTNV	11N40MIMO	total	2462	1.4766	5	-70.47	20	PASS
NTNV	11AX20MIMO	total	2412	2.9076	10	-70.92	20	PASS
NTNV	11AX20MIMO	total	2442	2.7389	10	-72.61	20	PASS
NTNV	11AX20MIMO	total	2472	2.8453	10	-71.55	20	PASS
NTNV	11AX40MIMO	total	2422	1.6220	5	-67.56	20	PASS
NTNV	11AX40MIMO	total	2442	1.5932	5	-68.14	20	PASS
NTNV	11AX40MIMO	total	2462	1.5390	5	-69.22	20	PASS

(2) Beamforming

Test Condition	Test Mode	Antenna	Frequency [MHz]	Result (dBm/MHz)	Result (mW/MHz)	Limit(mW/MHz)	Verdict
NTNV	11B	Ant1	2412	6.55	4.5186	≤10	PASS
NTNV	11B	Ant2	2412	7.22	5.2723	≤10	PASS
NTNV	11B	Ant1	2442	6.41	4.3752	≤10	PASS
NTNV	11B	Ant2	2442	7.14	5.1761	≤10	PASS
NTNV	11B	Ant1	2472	6.20	4.1687	≤10	PASS
NTNV	11B	Ant2	2472	7.06	5.0816	≤10	PASS
NTNV	11G	Ant1	2412	3.45	2.2131	≤10	PASS
NTNV	11G	Ant2	2412	3.52	2.2491	≤10	PASS
NTNV	11G	Ant1	2442	3.20	2.0893	≤10	PASS
NTNV	11G	Ant2	2442	3.39	2.1827	≤10	PASS
NTNV	11G	Ant1	2472	3.10	2.0417	≤10	PASS
NTNV	11G	Ant2	2472	3.28	2.1281	≤10	PASS
NTNV	11N20MIMO	Ant1	2412	1.52	1.4191	≤10	PASS
NTNV	11N20MIMO	Ant2	2412	1.43	1.3900	≤10	PASS
NTNV	11N20MIMO	total	2412	4.49	2.8091	≤10	PASS
NTNV	11N20MIMO	Ant1	2442	1.22	1.3243	≤10	PASS
NTNV	11N20MIMO	Ant2	2442	1.63	1.4555	≤10	PASS
NTNV	11N20MIMO	total	2442	4.44	2.7798	≤10	PASS
NTNV	11N20MIMO	Ant1	2472	1.32	1.3552	≤10	PASS
NTNV	11N20MIMO	Ant2	2472	1.36	1.3677	≤10	PASS
NTNV	11N20MIMO	total	2472	4.35	2.7229	≤10	PASS
NTNV	11N40MIMO	Ant1	2422	-1.10	0.7762	≤5	PASS
NTNV	11N40MIMO	Ant2	2422	-1.34	0.7345	≤5	PASS
NTNV	11N40MIMO	total	2422	1.79	1.5107	≤5	PASS
NTNV	11N40MIMO	Ant1	2442	-1.63	0.6871	≤5	PASS
NTNV	11N40MIMO	Ant2	2442	-1.17	0.7638	≤5	PASS
NTNV	11N40MIMO	total	2442	1.62	1.4509	≤5	PASS
NTNV	11N40MIMO	Ant1	2462	-1.23	0.7534	≤5	PASS
NTNV	11N40MIMO	Ant2	2462	-1.36	0.7311	≤5	PASS
NTNV	11N40MIMO	total	2462	1.72	1.4845	≤5	PASS
NTNV	11AX20MIMO	Ant2	2412	1.34	1.3614	≤10	PASS
NTNV	11AX20MIMO	total	2412	4.34	2.7135	≤10	PASS
NTNV	11AX20MIMO	Ant1	2412	1.31	1.3521	≤10	PASS
NTNV	11AX20MIMO	Ant1	2442	0.82	1.2078	≤10	PASS
NTNV	11AX20MIMO	Ant2	2442	1.11	1.2912	≤10	PASS
NTNV	11AX20MIMO	total	2442	3.98	2.4990	≤10	PASS
NTNV	11AX20MIMO	Ant1	2472	1.05	1.2735	≤10	PASS
NTNV	11AX20MIMO	Ant2	2472	1.15	1.3032	≤10	PASS
NTNV	11AX20MIMO	total	2472	4.11	2.5767	≤10	PASS
NTNV	11AX40MIMO	Ant2	2422	-1.05	0.7852	≤5	PASS
NTNV	11AX40MIMO	total	2422	1.87	1.5386	≤5	PASS
NTNV	11AX40MIMO	Ant1	2422	-1.23	0.7534	≤5	PASS
NTNV	11AX40MIMO	Ant1	2442	-1.23	0.7534	≤5	PASS
NTNV	11AX40MIMO	Ant2	2442	-1.34	0.7345	≤5	PASS
NTNV	11AX40MIMO	total	2442	1.73	1.4879	≤5	PASS
NTNV	11AX40MIMO	Ant1	2462	-1.23	0.7534	≤5	PASS
NTNV	11AX40MIMO	Ant2	2462	-0.82	0.8279	≤5	PASS
NTNV	11AX40MIMO	total	2462	1.99	1.5813	≤5	PASS

Test Condition	Test Mode	Antenna	Frequency [MHz]	Result (dBm/MHz)	EIRP (dBm/MHz)	Limit(dBm/MHz)	Verdict
NTNV	11B	Ant1	2412	6.55	10.03	≤12.14	PASS
NTNV	11B	Ant2	2412	7.22	10.67	≤12.14	PASS
NTNV	11B	Ant1	2442	6.41	9.89	≤12.14	PASS
NTNV	11B	Ant2	2442	7.14	10.59	≤12.14	PASS
NTNV	11B	Ant1	2472	6.20	9.68	≤12.14	PASS
NTNV	11B	Ant2	2472	7.06	10.51	≤12.14	PASS
NTNV	11G	Ant1	2412	3.45	6.93	≤12.14	PASS
NTNV	11G	Ant2	2412	3.52	6.97	≤12.14	PASS
NTNV	11G	Ant1	2442	3.20	6.68	≤12.14	PASS
NTNV	11G	Ant2	2442	3.39	6.84	≤12.14	PASS
NTNV	11G	Ant1	2472	3.10	6.58	≤12.14	PASS
NTNV	11G	Ant2	2472	3.28	6.73	≤12.14	PASS
NTNV	11N20MIMO	Ant1	2412	1.52	5.00	≤12.14	PASS
NTNV	11N20MIMO	Ant2	2412	1.43	4.88	≤12.14	PASS
NTNV	11N20MIMO	total	2412	4.49	7.95	≤12.14	PASS
NTNV	11N20MIMO	Ant1	2442	1.22	4.70	≤12.14	PASS
NTNV	11N20MIMO	Ant2	2442	1.63	5.08	≤12.14	PASS
NTNV	11N20MIMO	total	2442	4.44	7.90	≤12.14	PASS
NTNV	11N20MIMO	Ant1	2472	1.32	4.80	≤12.14	PASS
NTNV	11N20MIMO	Ant2	2472	1.36	4.81	≤12.14	PASS
NTNV	11N20MIMO	total	2472	4.35	7.82	≤12.14	PASS
NTNV	11N40MIMO	Ant1	2422	-1.10	2.38	≤9.13	PASS
NTNV	11N40MIMO	Ant2	2422	-1.34	2.11	≤9.13	PASS
NTNV	11N40MIMO	total	2422	1.79	5.26	≤9.13	PASS
NTNV	11N40MIMO	Ant1	2442	-1.63	1.85	≤9.13	PASS
NTNV	11N40MIMO	Ant2	2442	-1.17	2.28	≤9.13	PASS
NTNV	11N40MIMO	total	2442	1.62	5.08	≤9.13	PASS
NTNV	11N40MIMO	Ant1	2462	-1.23	2.25	≤9.13	PASS
NTNV	11N40MIMO	Ant2	2462	-1.36	2.09	≤9.13	PASS
NTNV	11N40MIMO	total	2462	1.72	5.18	≤9.13	PASS
NTNV	11AX20MIMO	Ant1	2412	1.31	4.79	≤12.14	PASS
NTNV	11AX20MIMO	Ant2	2412	1.34	4.79	≤12.14	PASS
NTNV	11AX20MIMO	total	2412	4.34	7.80	≤12.14	PASS
NTNV	11AX20MIMO	Ant2	2442	1.11	4.56	≤12.14	PASS
NTNV	11AX20MIMO	total	2442	3.98	7.44	≤12.14	PASS
NTNV	11AX20MIMO	Ant1	2442	0.82	4.30	≤12.14	PASS
NTNV	11AX20MIMO	Ant1	2472	1.05	4.53	≤12.14	PASS
NTNV	11AX20MIMO	Ant2	2472	1.15	4.60	≤12.14	PASS
NTNV	11AX20MIMO	total	2472	4.11	7.58	≤12.14	PASS
NTNV	11AX40MIMO	Ant1	2422	-1.23	2.25	≤9.13	PASS
NTNV	11AX40MIMO	Ant2	2422	-1.05	2.40	≤9.13	PASS
NTNV	11AX40MIMO	total	2422	1.87	5.34	≤9.13	PASS
NTNV	11AX40MIMO	Ant1	2442	-1.23	2.25	≤9.13	PASS
NTNV	11AX40MIMO	Ant2	2442	-1.34	2.11	≤9.13	PASS
NTNV	11AX40MIMO	total	2442	1.73	5.19	≤9.13	PASS
NTNV	11AX40MIMO	Ant1	2462	-1.23	2.25	≤9.13	PASS
NTNV	11AX40MIMO	Ant2	2462	-0.82	2.63	≤9.13	PASS
NTNV	11AX40MIMO	total	2462	1.99	5.45	≤9.13	PASS

Test Condition	Test Mode	Antenna	Frequency [MHz]	Power (mW/MHz)	RatedPower (mW/MHz)	Result (%)	Limit (%)	Verdict
NTNV	11B	Ant1	2412	4.5186	10	-54.81	20	PASS
NTNV	11B	Ant2	2412	5.2723	10	-47.28	20	PASS
NTNV	11B	Ant1	2442	4.3752	10	-56.25	20	PASS
NTNV	11B	Ant2	2442	5.1761	10	-48.24	20	PASS
NTNV	11B	Ant1	2472	4.1687	10	-58.31	20	PASS
NTNV	11B	Ant2	2472	5.0816	10	-49.18	20	PASS
NTNV	11G	Ant1	2412	2.2131	10	-77.87	20	PASS
NTNV	11G	Ant2	2412	2.2491	10	-77.51	20	PASS
NTNV	11G	Ant1	2442	2.0893	10	-79.11	20	PASS
NTNV	11G	Ant2	2442	2.1827	10	-78.17	20	PASS
NTNV	11G	Ant1	2472	2.0417	10	-79.58	20	PASS
NTNV	11G	Ant2	2472	2.1281	10	-78.72	20	PASS
NTNV	11N20MIMO	total	2412	2.8091	10	-71.91	20	PASS
NTNV	11N20MIMO	total	2442	2.7798	10	-72.20	20	PASS
NTNV	11N20MIMO	total	2472	2.7229	10	-72.77	20	PASS
NTNV	11N40MIMO	total	2422	1.5107	5	-69.79	20	PASS
NTNV	11N40MIMO	total	2442	1.4509	5	-70.98	20	PASS
NTNV	11N40MIMO	total	2462	1.4845	5	-70.31	20	PASS
NTNV	11AX20MIMO	total	2412	2.7135	10	-72.87	20	PASS
NTNV	11AX20MIMO	total	2442	2.4990	10	-75.01	20	PASS
NTNV	11AX20MIMO	total	2472	2.5767	10	-74.23	20	PASS
NTNV	11AX40MIMO	total	2422	1.5386	5	-69.23	20	PASS
NTNV	11AX40MIMO	total	2442	1.4879	5	-70.24	20	PASS
NTNV	11AX40MIMO	total	2462	1.5813	5	-68.37	20	PASS

7.2 FREQUENCY ERROR

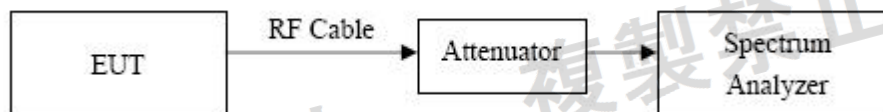
7.2.1 Applicable Standard

According to Item 19 of Article 2 Paragraph 1.

7.2.2 Conformance Limit

the maximum permit tolerance of frequency is 50ppm.

7.2.3 Test Setup Block Diagram



7.2.4 Test Procedure

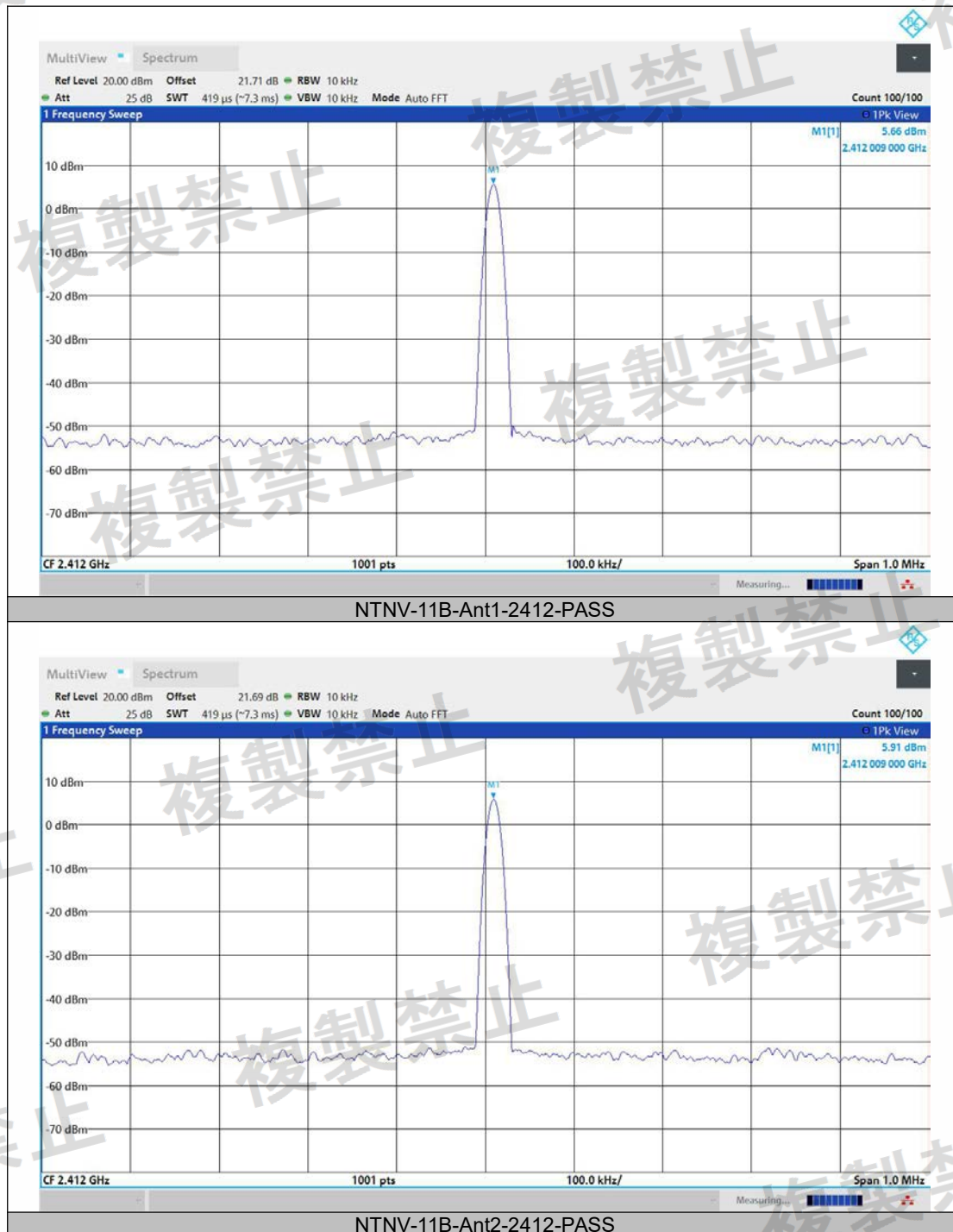
1. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
2. Set center frequency of spectrum analyzer = operating frequency.
3. Set the spectrum analyzer as RBW, VBW=10KHz, Span = 1MHz.
- 4 'Maximum Hold' mode may be used to accumulate the measurement result over several scans provided emission is repetitive in nature.
5. Repeat above procedures until all frequency measured was complete.

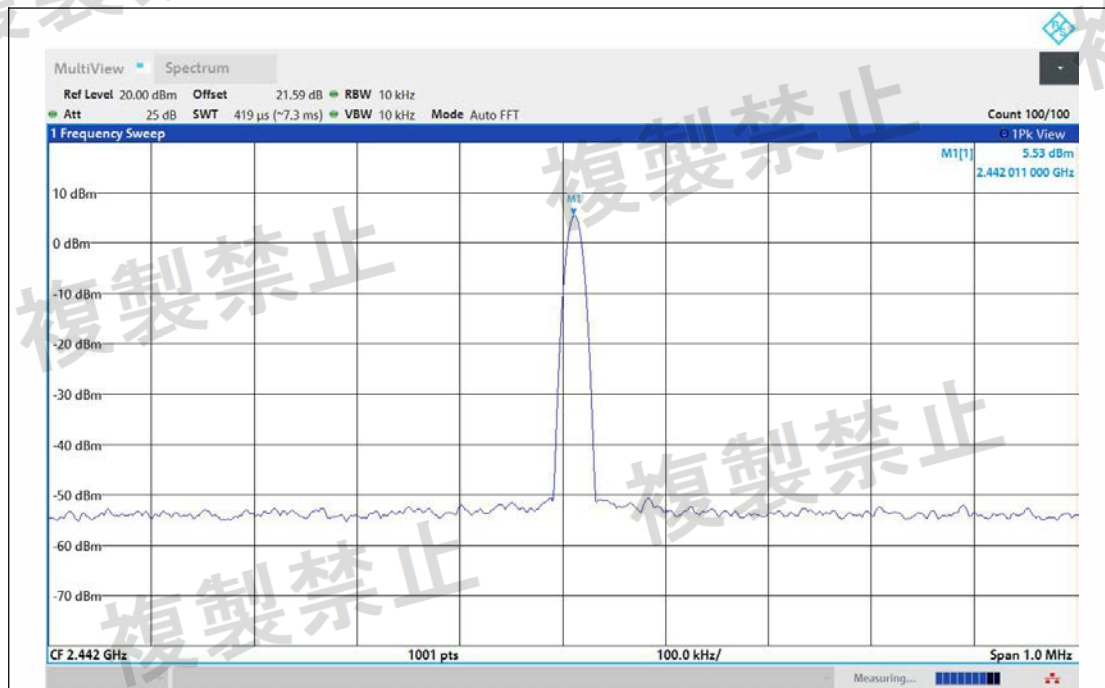
7.2.5 Environmental Conditions

Temperature:	24.5°C
Relative Humidity:	45%
ATM Pressure:	1011 mbar

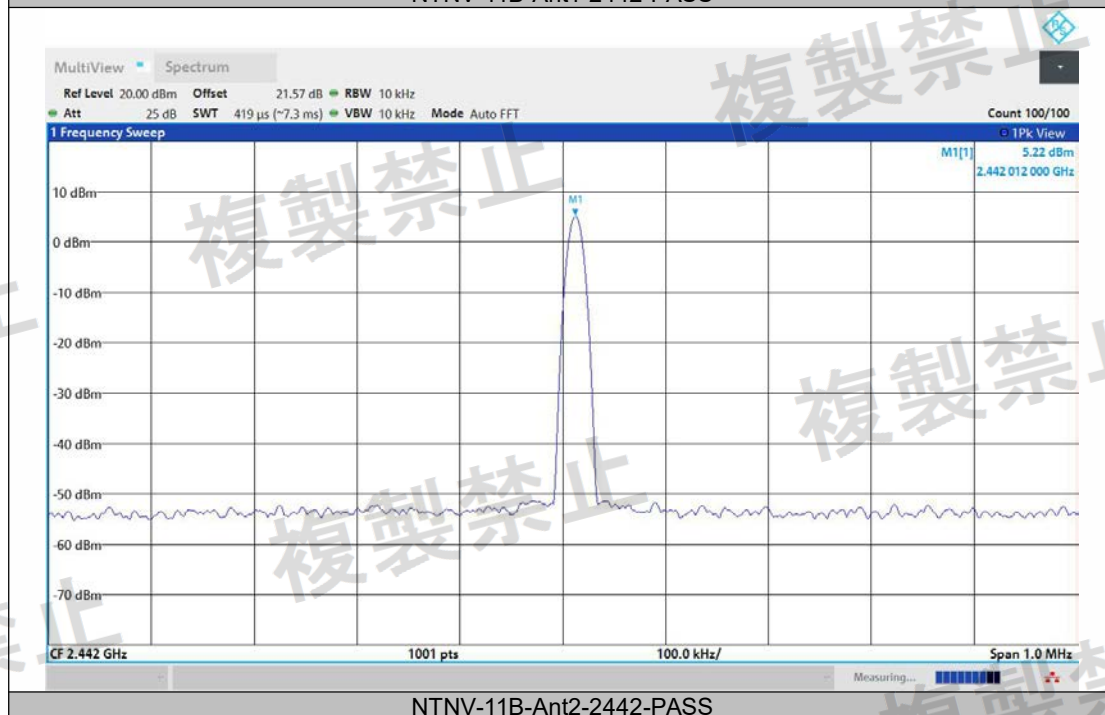
7.2.6 Test Results

TestCondition	TestMode	Antenna	Frequency [MHz]	CenterFreq [MHz]	Result[ppm]	Limit[ppm]	Verdict
NTNV	11B	Ant1	2412	2412.009	3.73134	±50	PASS
NTNV	11B	Ant2	2412	2412.009	3.73134	±50	PASS
NTNV	11B	Ant1	2442	2442.011	4.50451	±50	PASS
NTNV	11B	Ant2	2442	2442.012	4.91401	±50	PASS
NTNV	11B	Ant1	2472	2472.016	6.47249	±50	PASS
NTNV	11B	Ant2	2472	2472.017	6.87702	±50	PASS
NTNV	11G	Ant1	2412	2412.009	3.73134	±50	PASS
NTNV	11G	Ant2	2412	2412.009	3.73134	±50	PASS
NTNV	11G	Ant1	2442	2442.012	4.91401	±50	PASS
NTNV	11G	Ant2	2442	2442.013	5.32351	±50	PASS
NTNV	11G	Ant1	2472	2472.016	6.47249	±50	PASS
NTNV	11G	Ant2	2472	2472.017	6.87702	±50	PASS
NTNV	11N20MIMO	Ant1	2412	2412.01	4.14594	±50	PASS
NTNV	11N20MIMO	Ant2	2412	2412.01	4.14594	±50	PASS
NTNV	11N20MIMO	Ant2	2442	2442.013	5.32351	±50	PASS
NTNV	11N20MIMO	Ant1	2442	2442.013	5.32351	±50	PASS
NTNV	11N20MIMO	Ant1	2472	2472.018	7.28155	±50	PASS
NTNV	11N20MIMO	Ant2	2472	2472.018	7.28155	±50	PASS
NTNV	11N40MIMO	Ant1	2422	2422.019	7.84476	±50	PASS
NTNV	11N40MIMO	Ant2	2422	2422.019	7.84476	±50	PASS
NTNV	11N40MIMO	Ant1	2442	2442.014	5.73301	±50	PASS
NTNV	11N40MIMO	Ant2	2442	2442.014	5.73301	±50	PASS
NTNV	11N40MIMO	Ant1	2462	2462.02	8.12348	±50	PASS
NTNV	11N40MIMO	Ant2	2462	2462.02	8.12348	±50	PASS
NTNV	11AX20MIMO	Ant1	2412	2412.01	4.14594	±50	PASS
NTNV	11AX20MIMO	Ant2	2412	2412.011	4.56053	±50	PASS
NTNV	11AX20MIMO	Ant1	2442	2442.014	5.73301	±50	PASS
NTNV	11AX20MIMO	Ant2	2442	2442.015	6.14251	±50	PASS
NTNV	11AX20MIMO	Ant1	2472	2472.019	7.68608	±50	PASS
NTNV	11AX20MIMO	Ant2	2472	2472.019	7.68608	±50	PASS
NTNV	11AX40MIMO	Ant1	2422	2422.02	8.25764	±50	PASS
NTNV	11AX40MIMO	Ant2	2422	2422.02	8.25764	±50	PASS
NTNV	11AX40MIMO	Ant1	2442	2442.015	6.14251	±50	PASS
NTNV	11AX40MIMO	Ant2	2442	2442.015	6.14251	±50	PASS
NTNV	11AX40MIMO	Ant1	2462	2462.021	8.52965	±50	PASS
NTNV	11AX40MIMO	Ant2	2462	2462.021	8.52965	±50	PASS

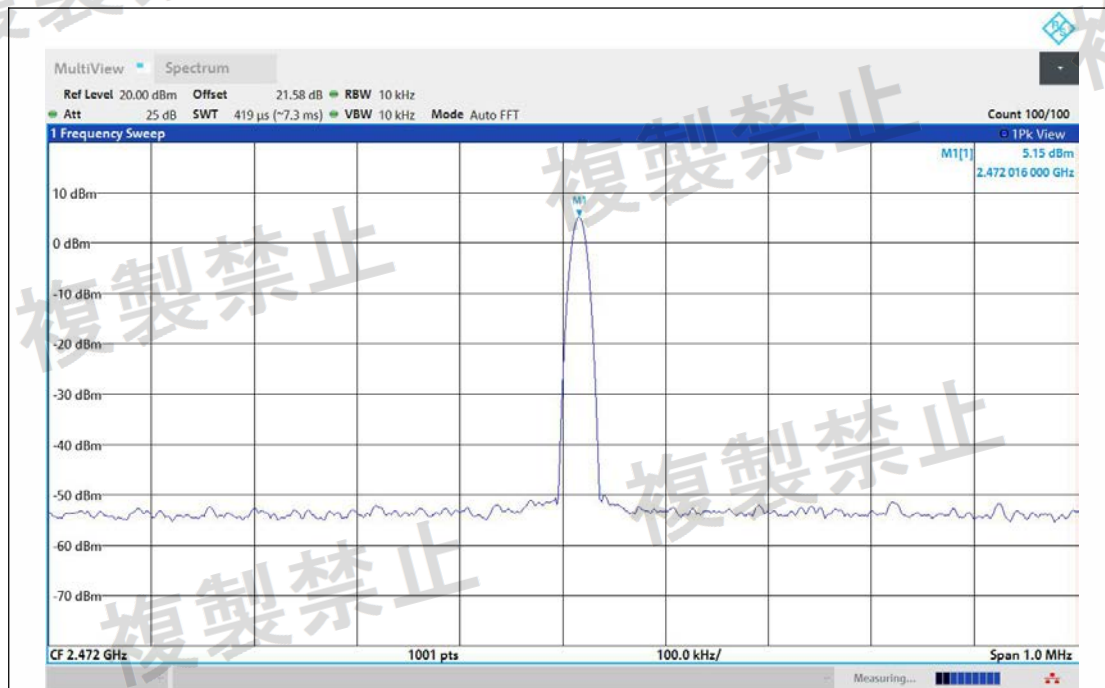




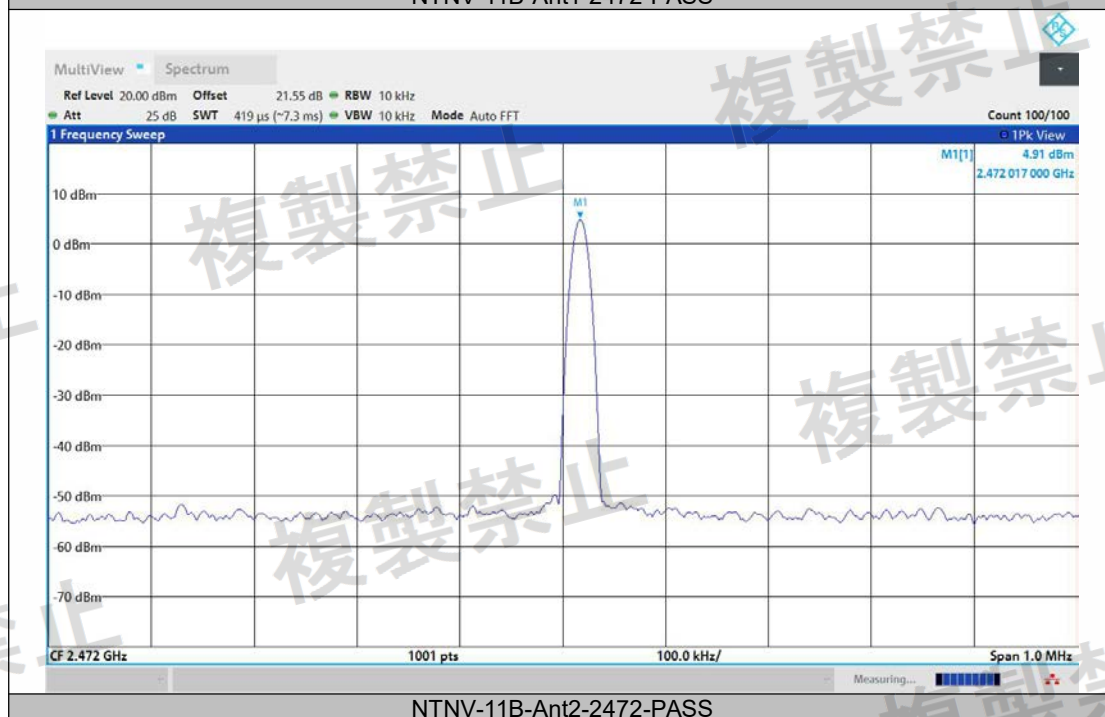
NTNV-11B-Ant1-2442-PASS



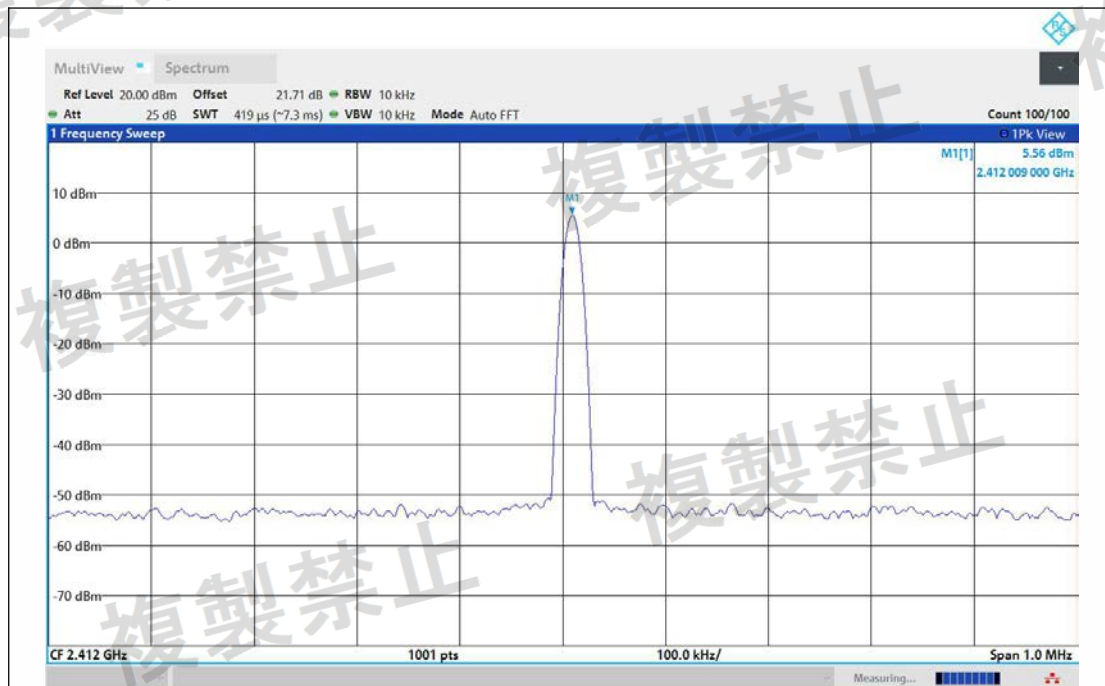
NTNV-11B-Ant2-2442-PASS



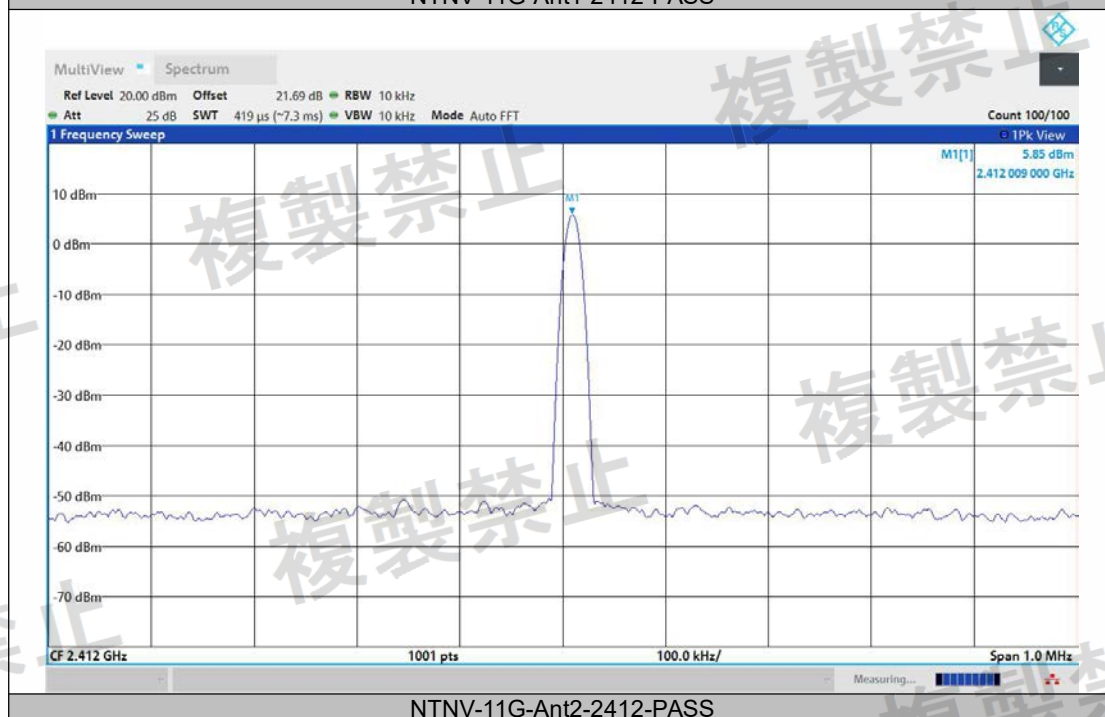
NTNV-11B-Ant1-2472-PASS



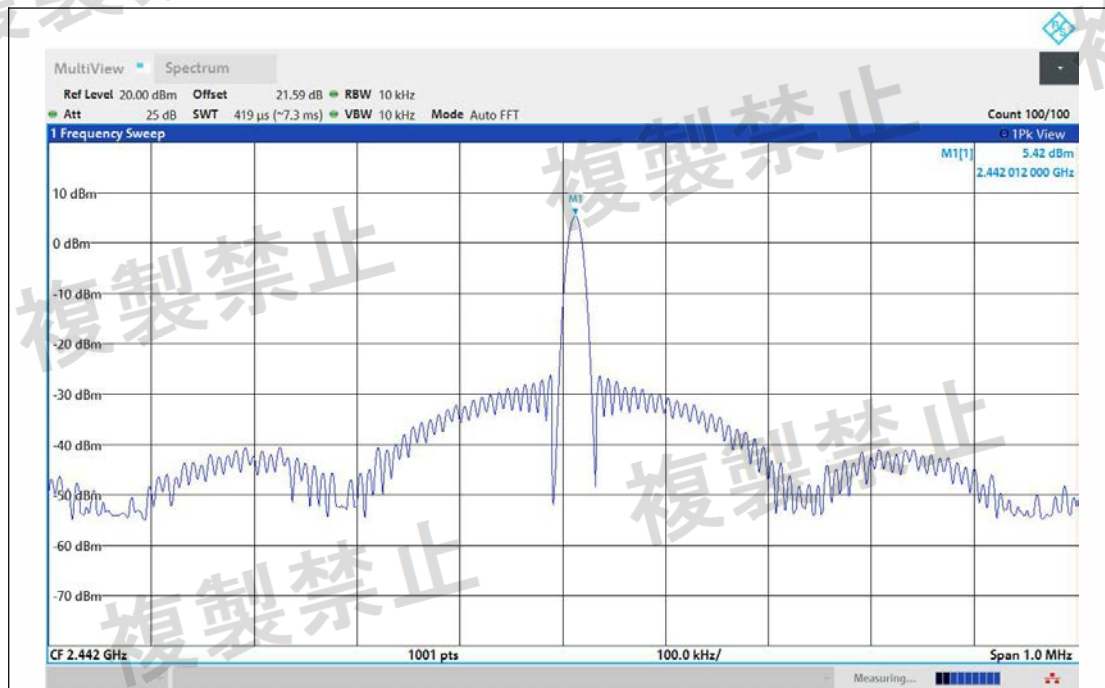
NTNV-11B-Ant2-2472-PASS



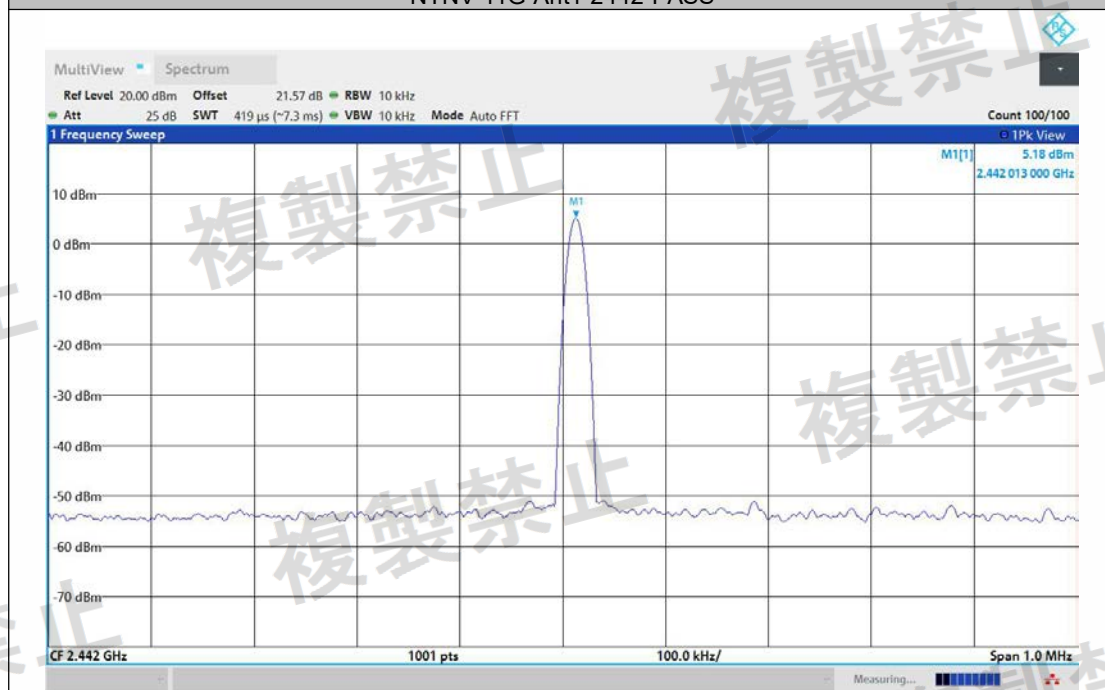
NTNV-11G-Ant1-2412-PASS



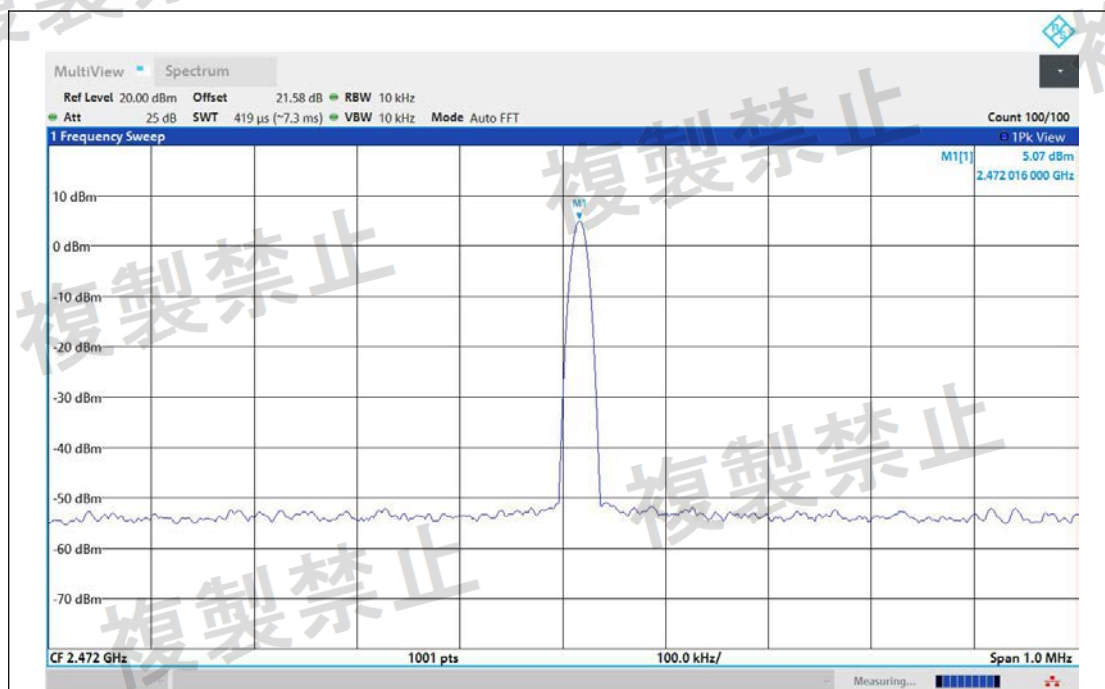
NTNV-11G-Ant2-2412-PASS



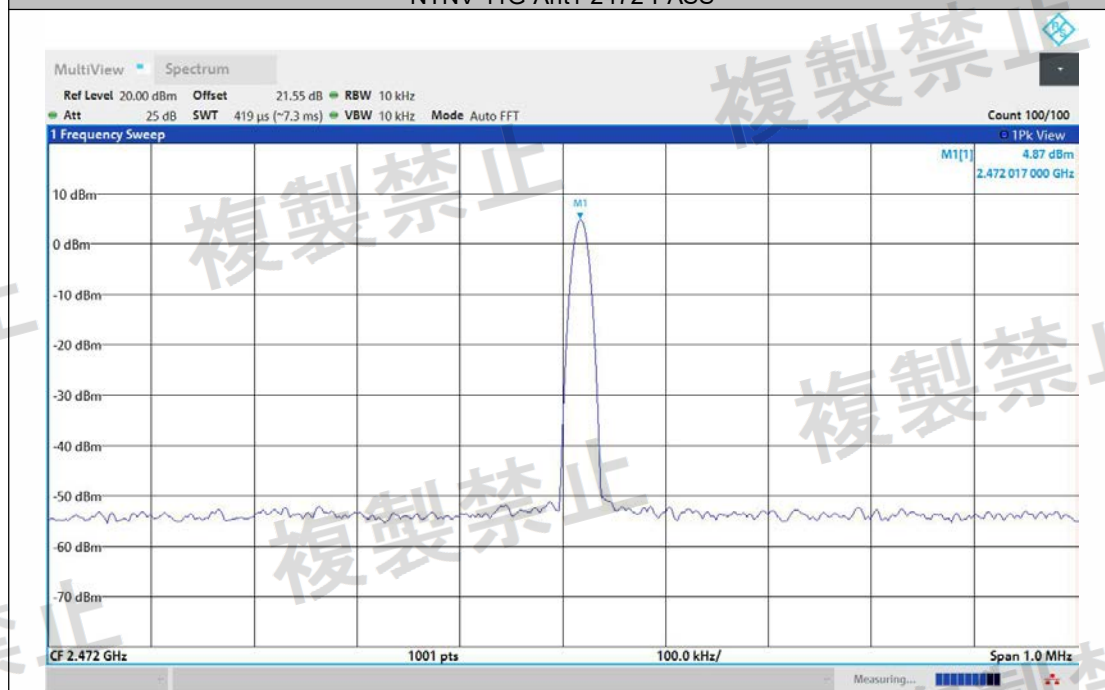
NTNV-11G-Ant1-2442-PASS



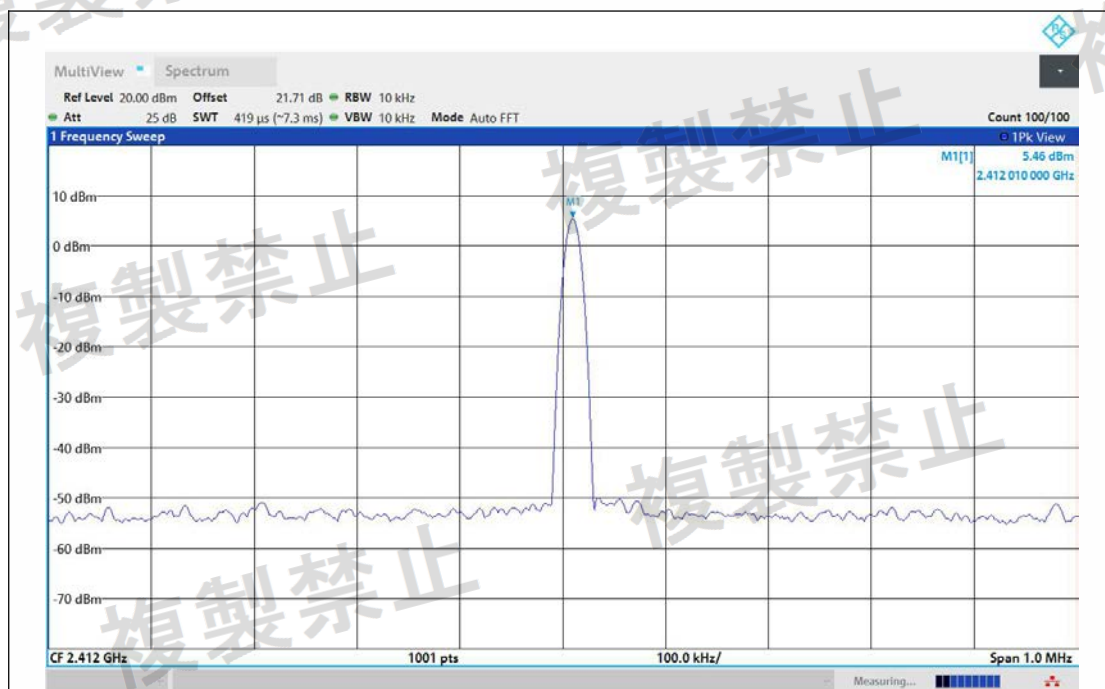
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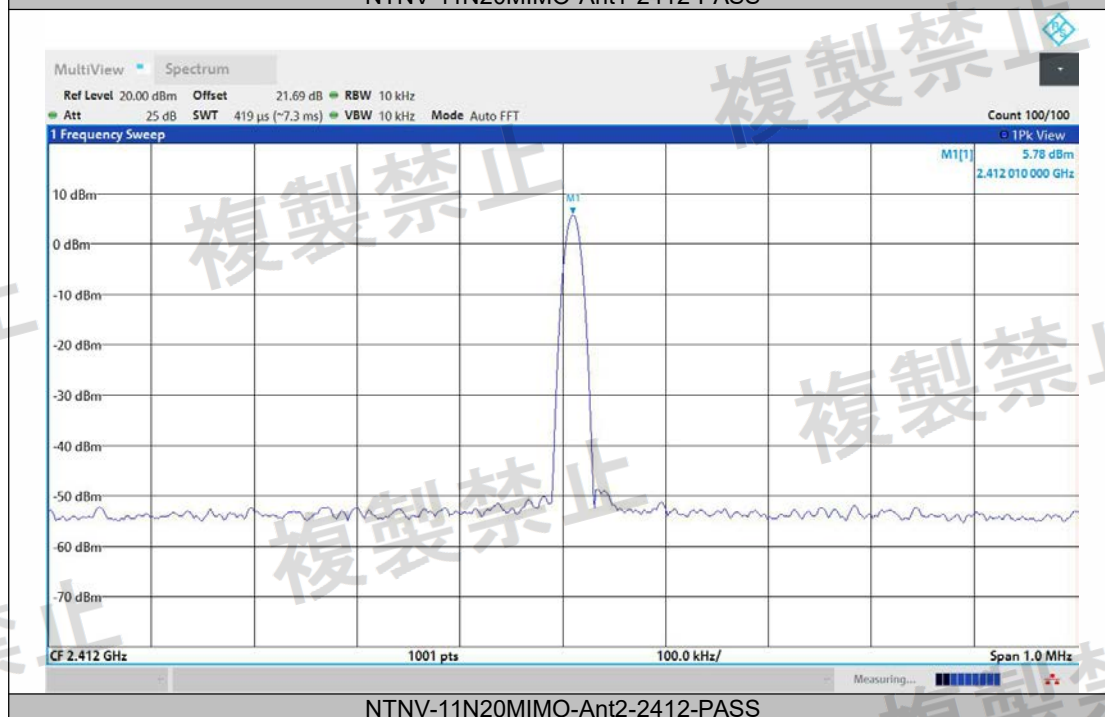
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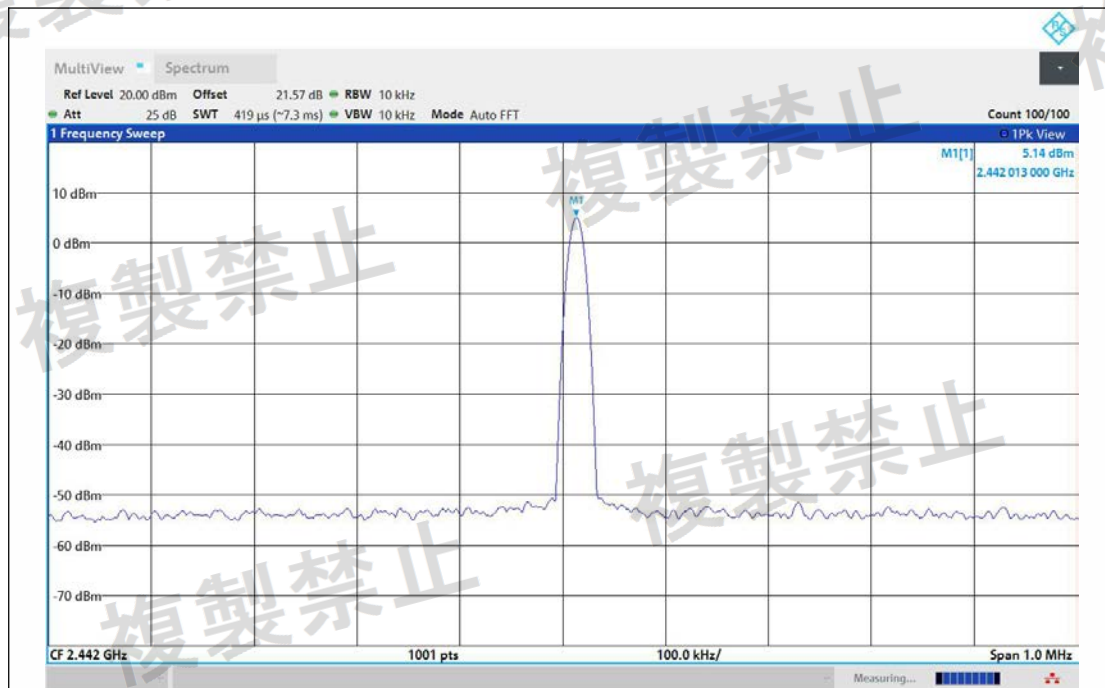
NTNV-11G-Ant2-2472-PASS



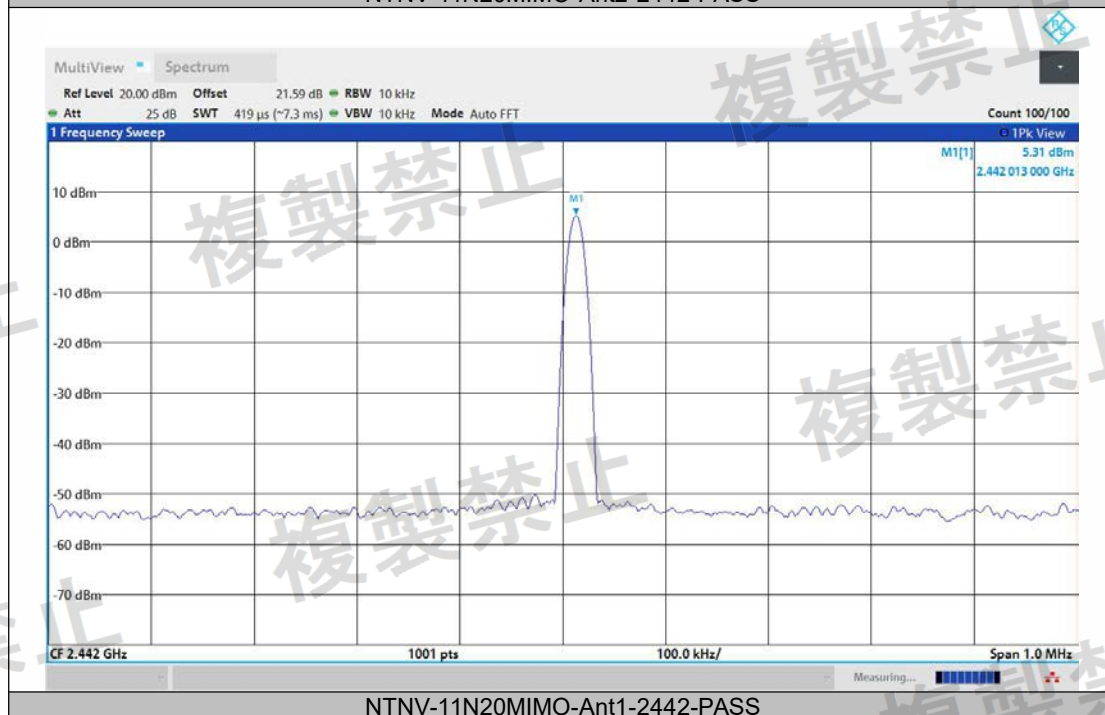
NTNV-11N20MIMO-Ant1-2412-PASS



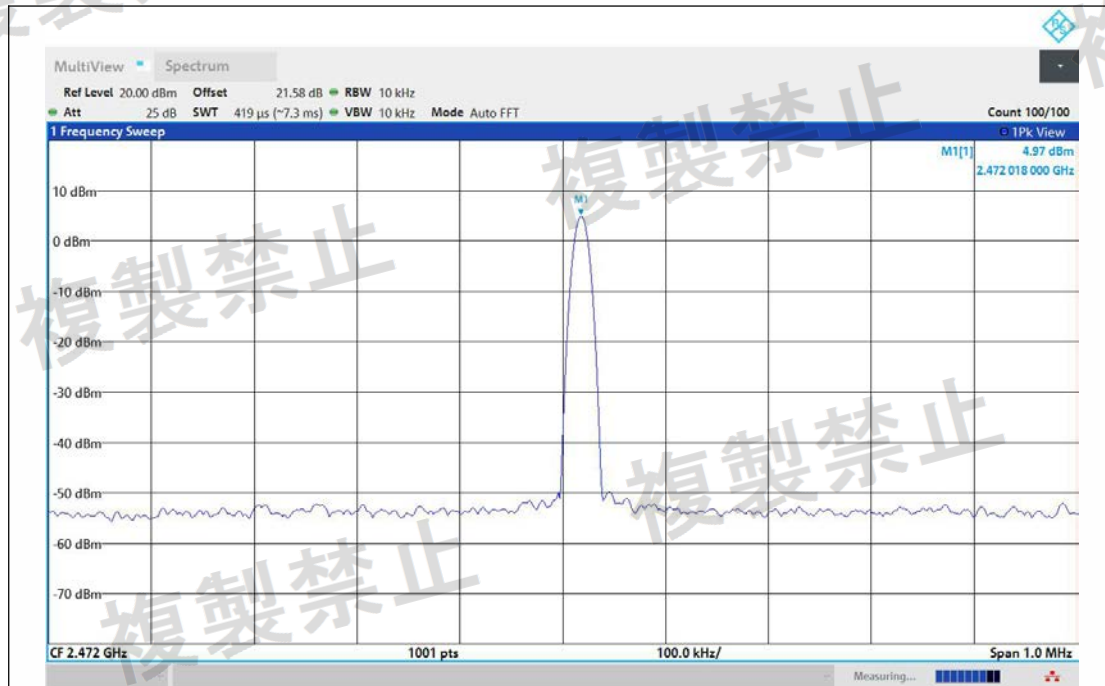
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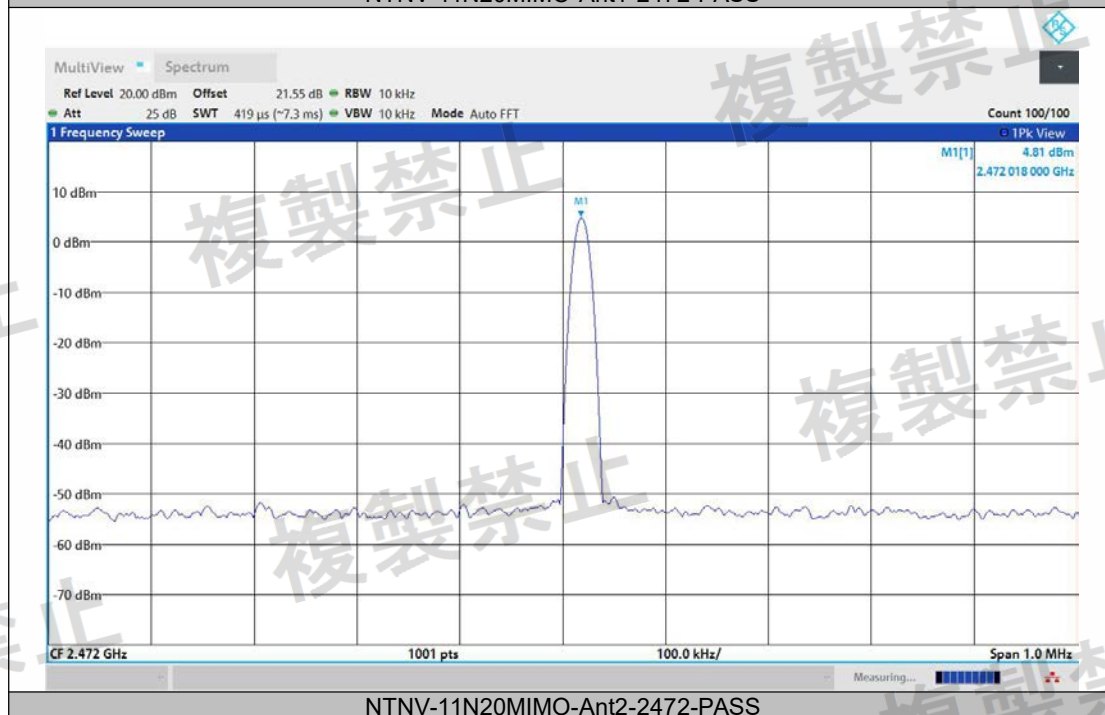
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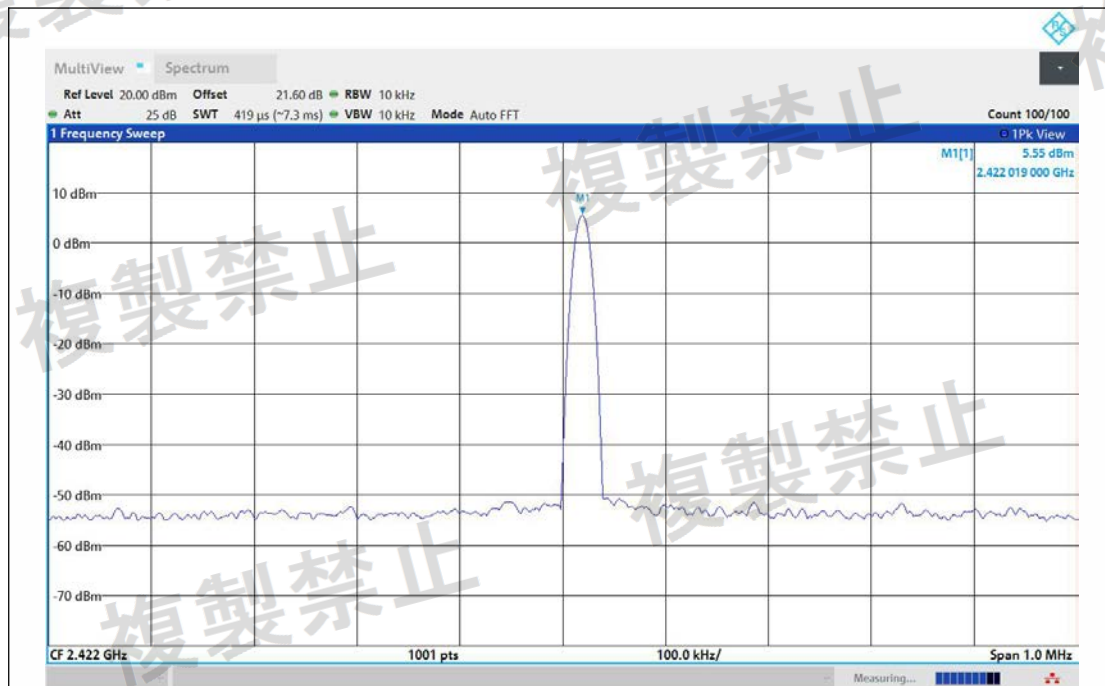
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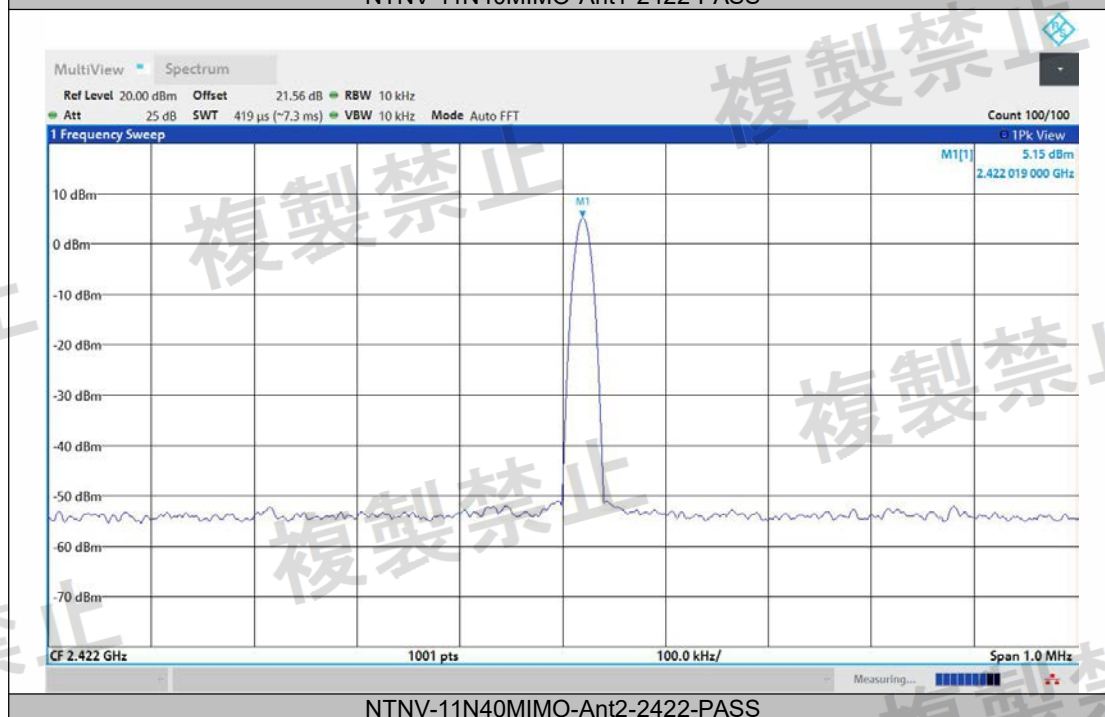
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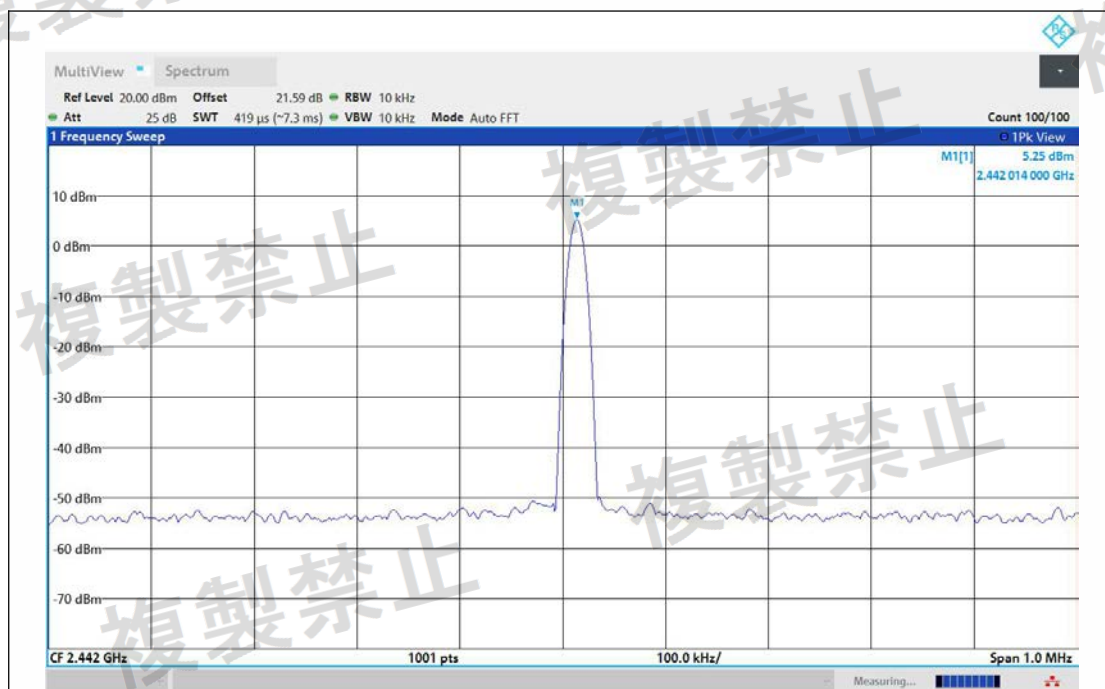
NTNV-11N20MIMO-Ant2-2472-PASS



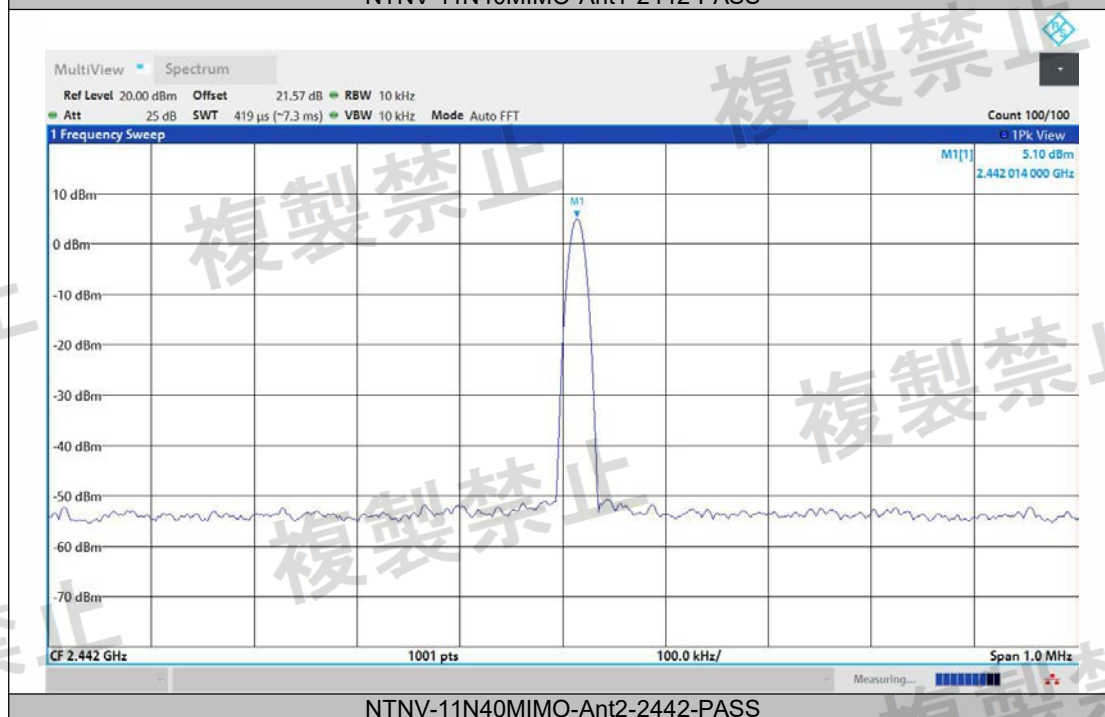
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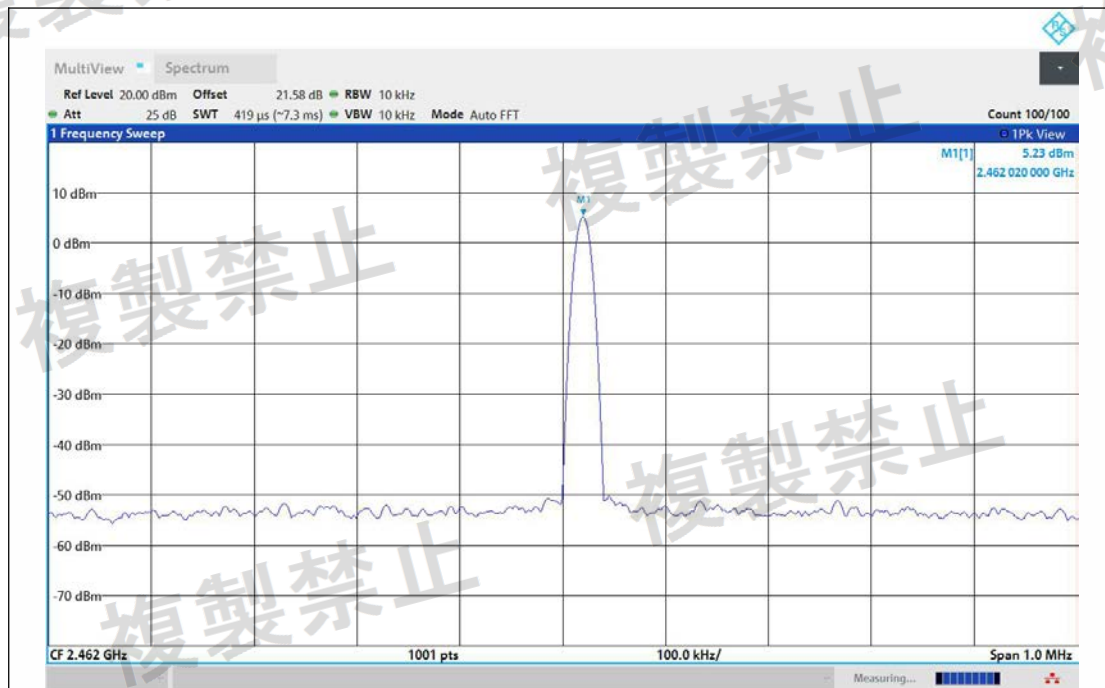
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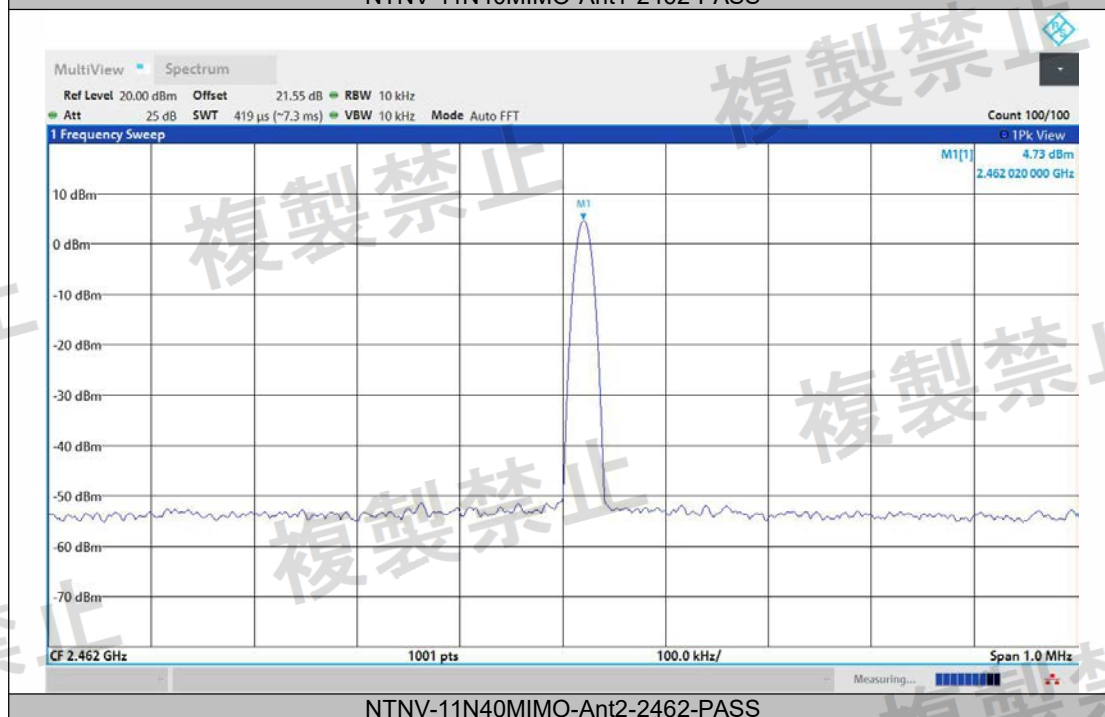
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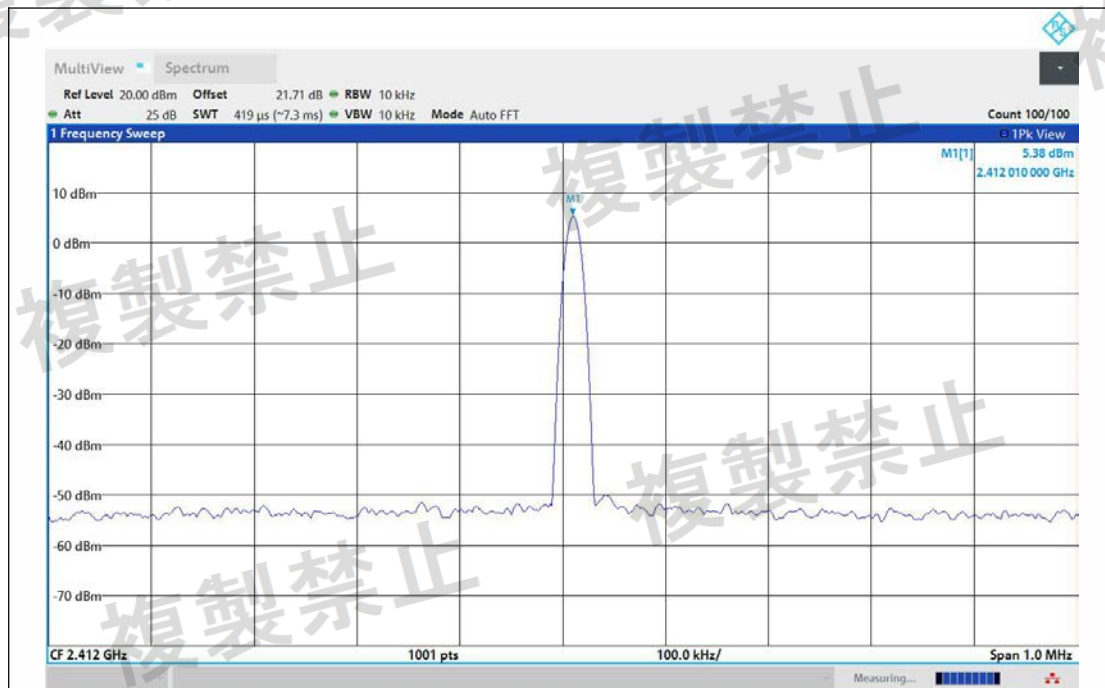
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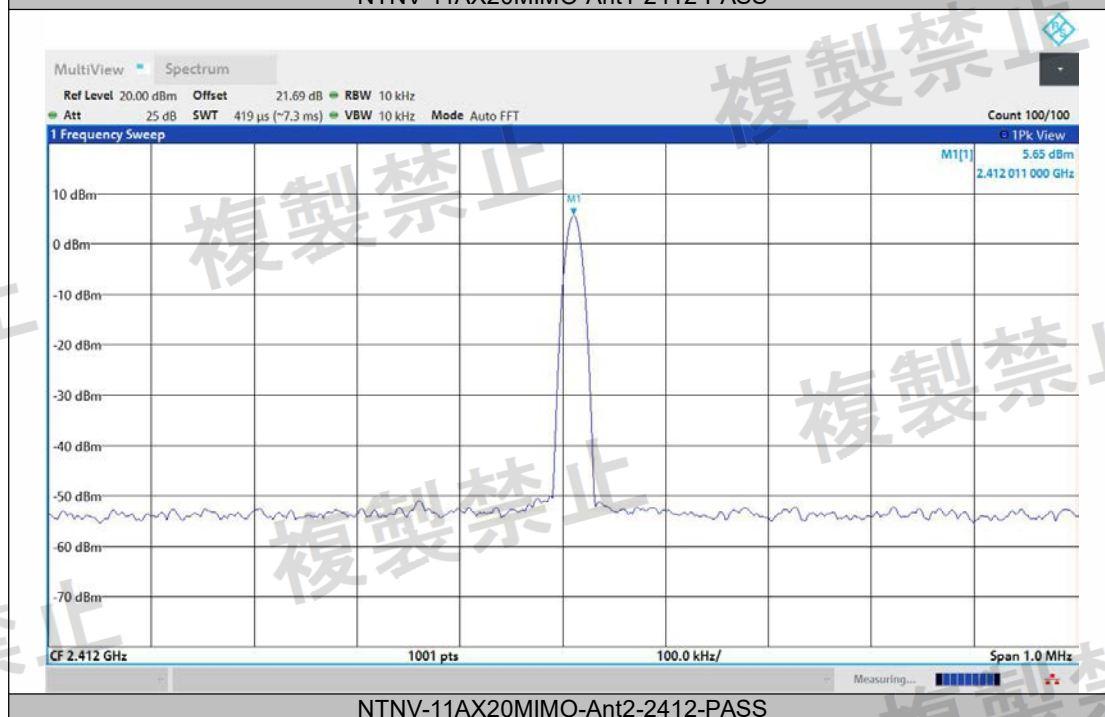
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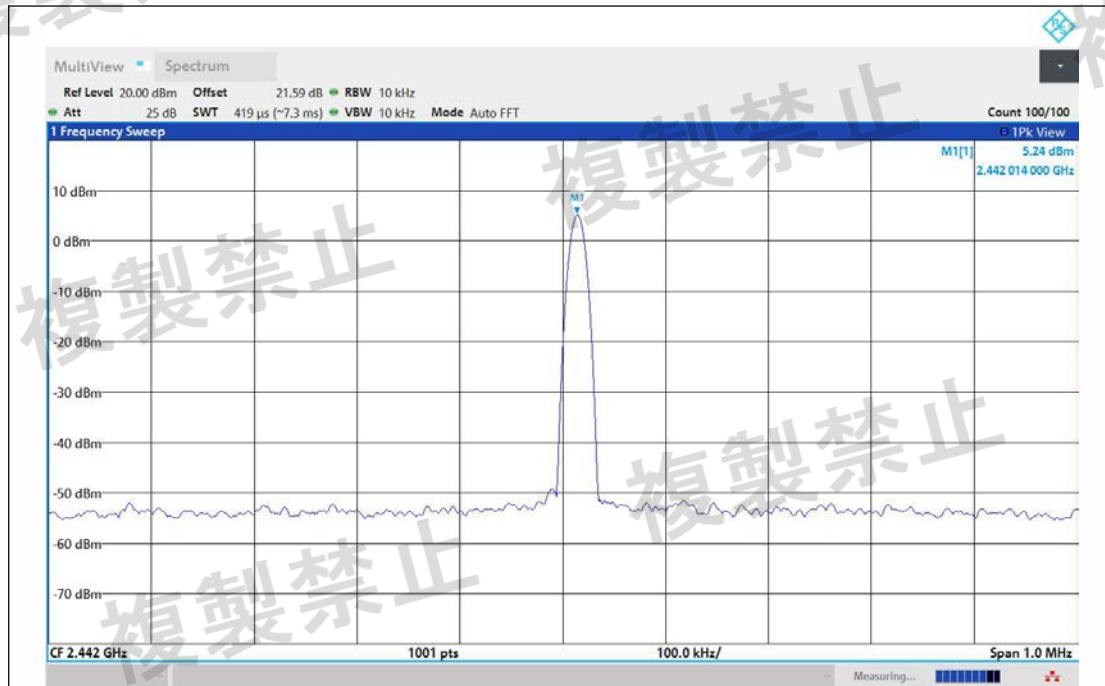
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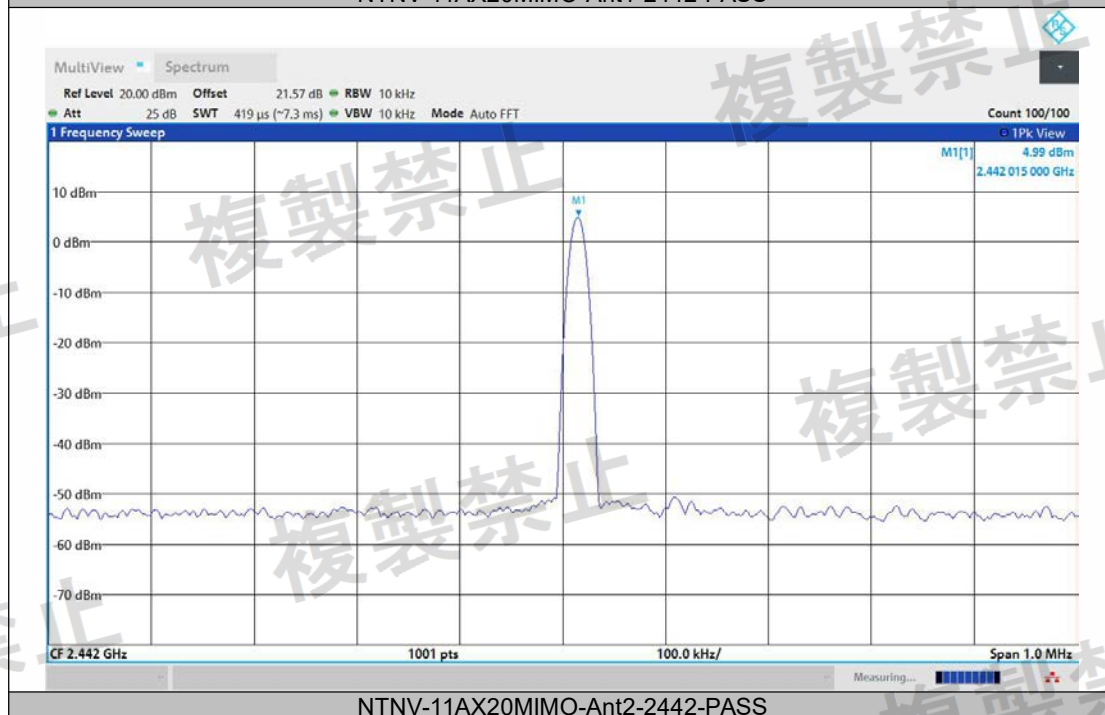
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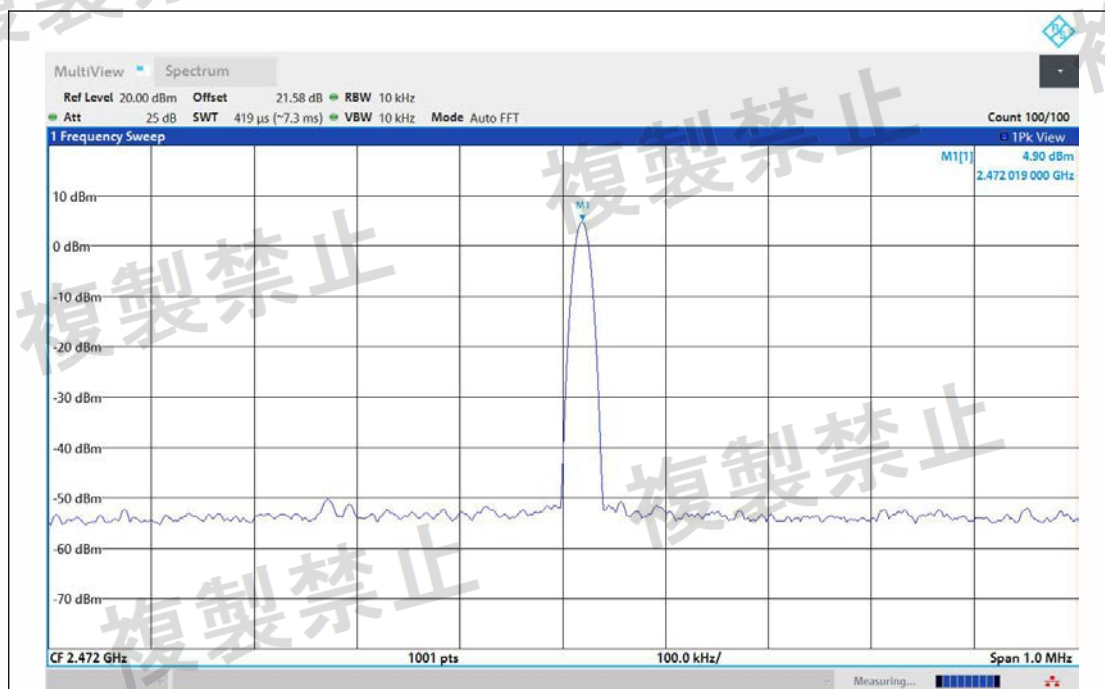
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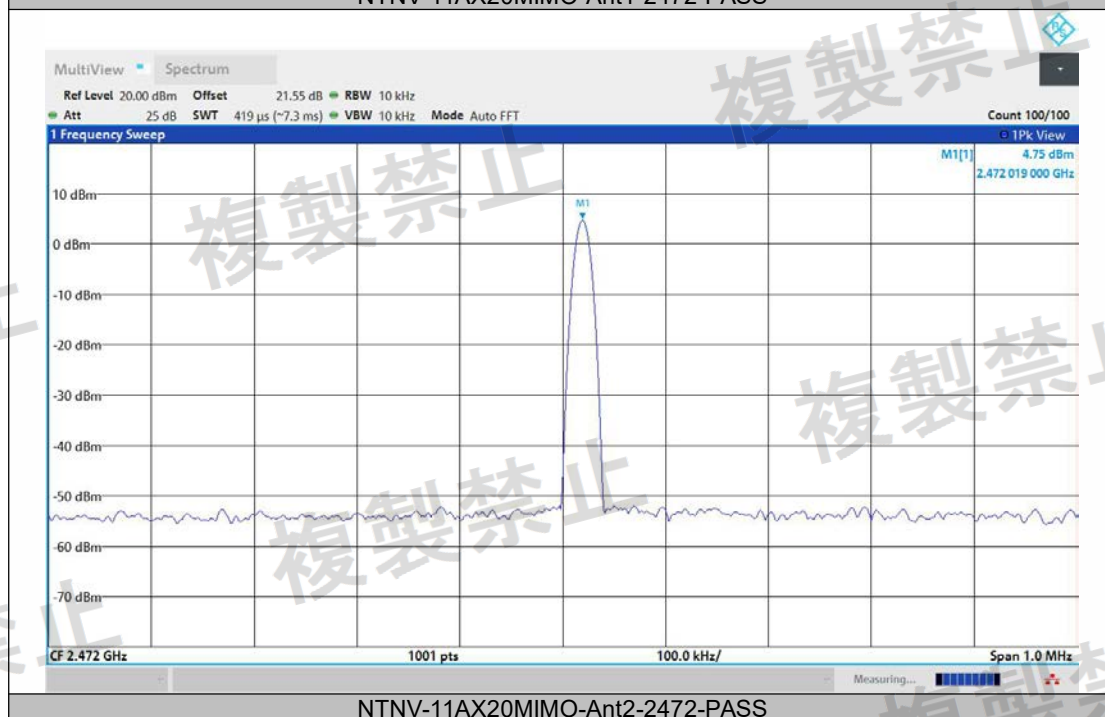
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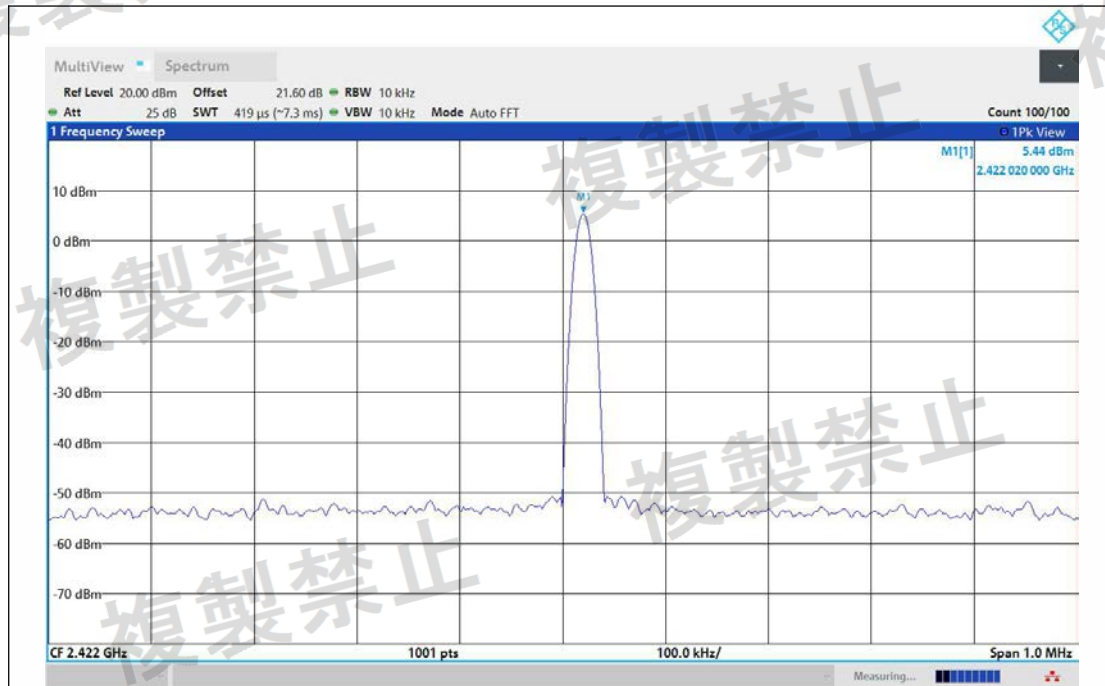
NTNV-11AX20MIMO-Ant2-2442-PASS



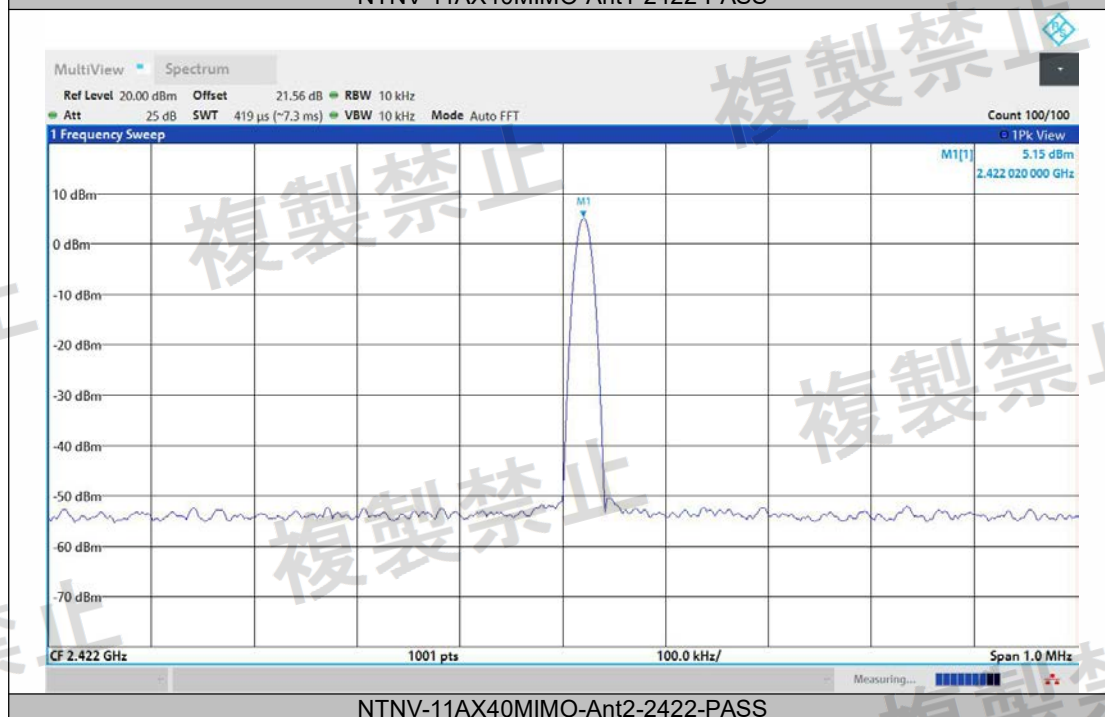
NTNV-11AX20MIMO-Ant1-2472-PASS



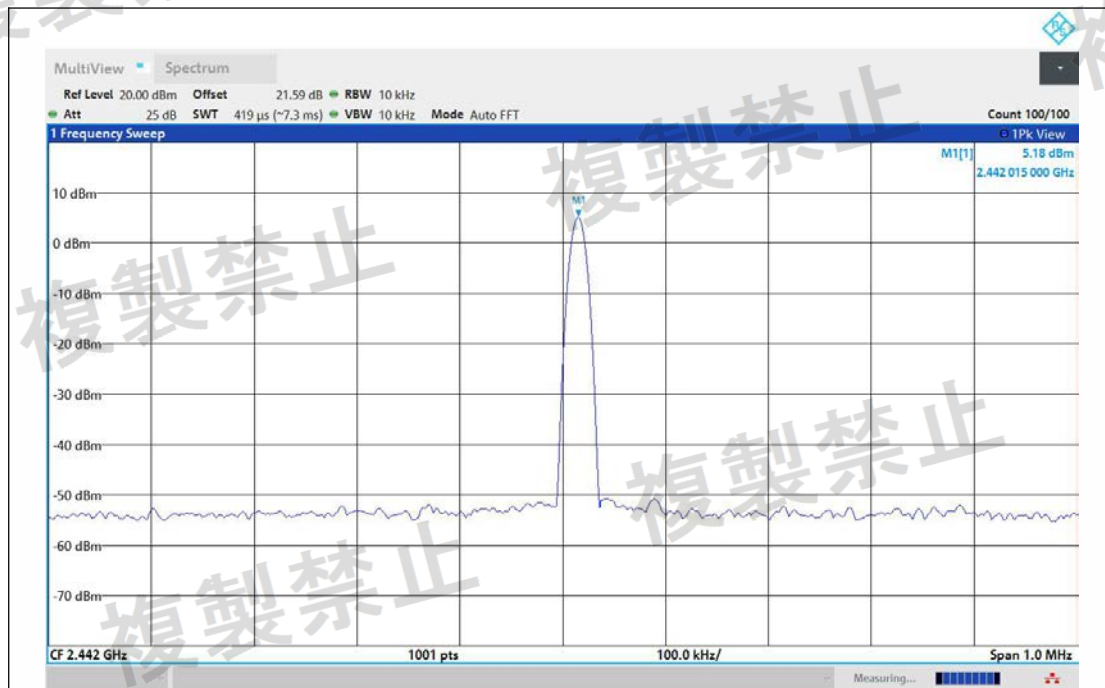
NTNV-11AX20MIMO-Ant2-2472-PASS



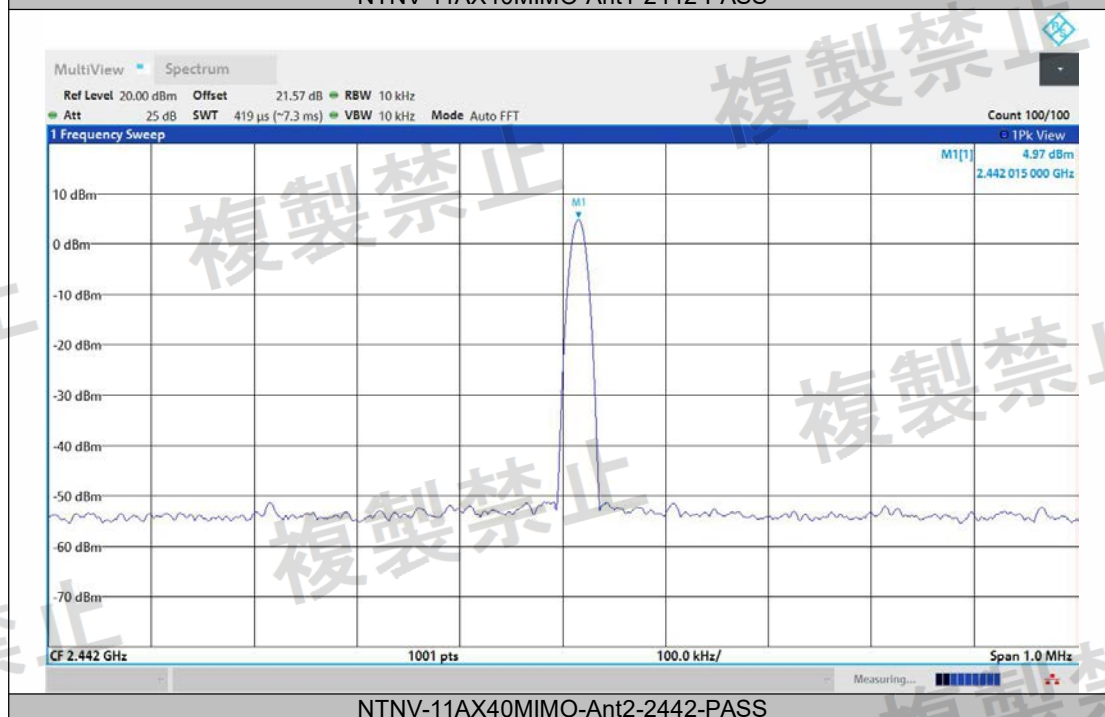
NTVN-11AX40MIMO-Ant1-2422-PASS



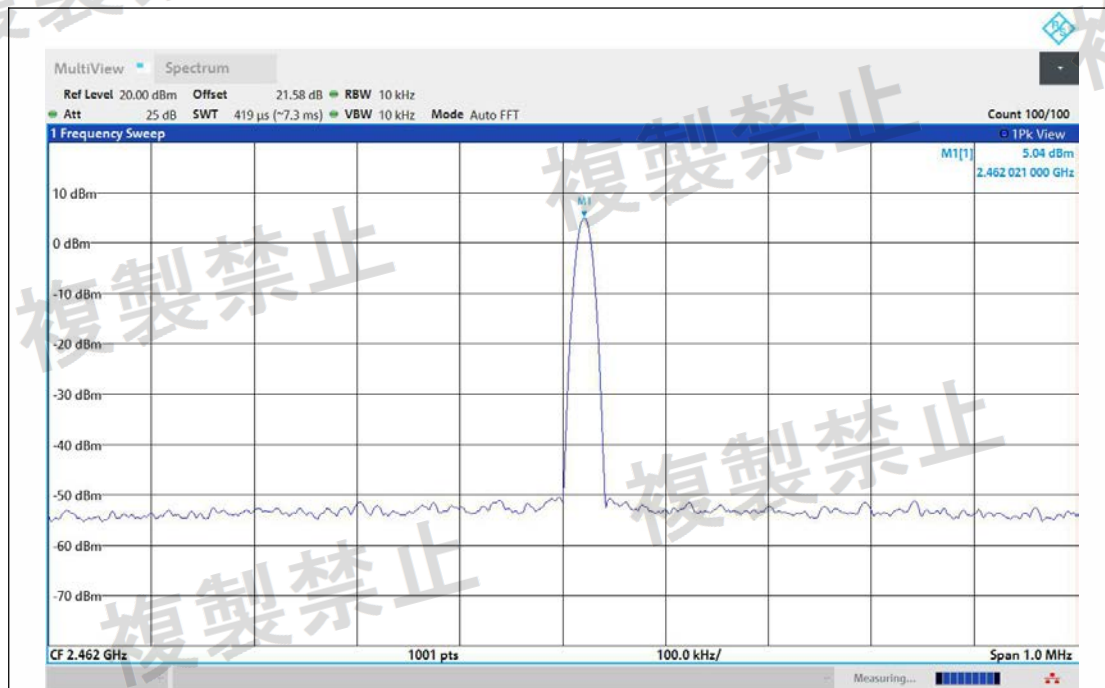
NTVN-11AX40MIMO-Ant2-2422-PASS



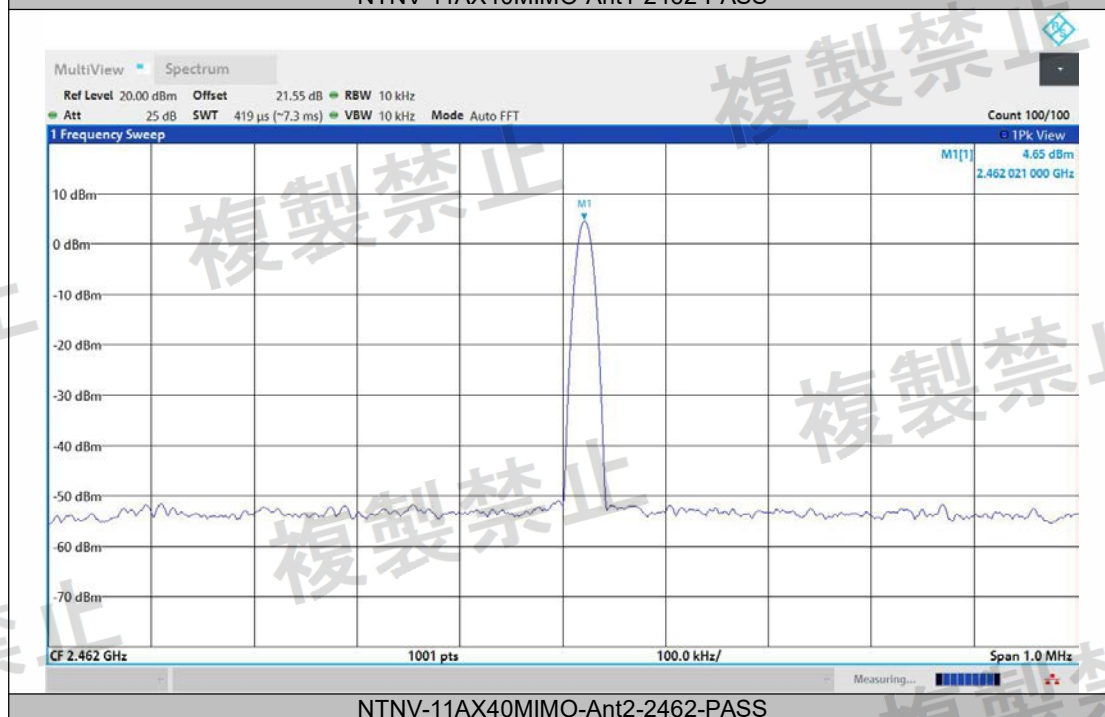
NTVN-11AX40MIMO-Ant1-2442-PASS



NTVN-11AX40MIMO-Ant2-2442-PASS



NTVN-11AX40MIMO-Ant1-2462-PASS



NTVN-11AX40MIMO-Ant2-2462-PASS

7.3 OCCUPIED BANDWIDTH (99%)

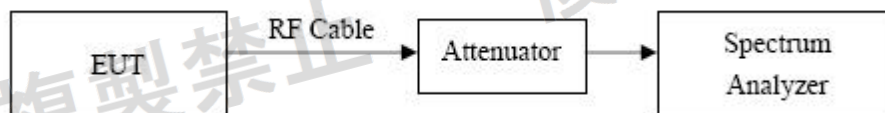
7.3.1 Applicable Standard

According to Item 19 of Article 2 Paragraph 1.

7.3.2 Conformance Limit

Occupied bandwidth: FH≤83.5 MHz; DS≤26 MHz; OFDM≤38 MHz, Others≤26 MHz

7.3.3 Test Setup Block Diagram



7.3.4 Test Procedure

(1) Spectrum analyzer is set as below

Central Frequency	Test frequency
Sweeping Bandwidth	2 to 3.5 times the allowable value (SPAN=80MHz for 802.11n(HT40), SPAN=50MHz for the others)
Resolution Bandwidth	Lower than 3 % of allowable value (RBW=300kHz)
Video Bandwidth	Equivalent to resolvable bandwidth
Y-Axis Scale	10 dB/Div
Input Level	Carrier level is sufficiently higher than spectrum analyzer noise
Sweep Time	Minimum time to assure the measurement accuracy (In case of burst wave, 1 burst per 1 sample)
Sampling points	More than 400 points
Sweep Mode	Consecutive sweep
Phase-Detection Mode	Positive peak
Trigger Condition	Max-hold

(2) Repeat the sweeping till no change was observed on the display and enter all values of data point to the computer as array variable.

(3) About all data, convert dB value to antilogarithm of electric power dimension.

(4) Add up the electric power of all data and record it as "Sum total of electric power".

(5) Adding up data in order from the lowest frequency to upper frequencies, look for a limit point where the value reaches to 0.5% (5% in case of diffusion bandwidth) of "Sum total of electric power". Convert the limit point to frequency and record as "Lowest limit frequency".

(6) Adding up data in order from the highest frequency to lower frequencies, look for a limit point where the value reaches to 0.5% (5% in case of diffusion bandwidth) of "Sum total of electric power".

power". Convert the limit point to frequency and record as "Highest limit frequency".

(7) Repeat above procedures until all frequency measured was complete.

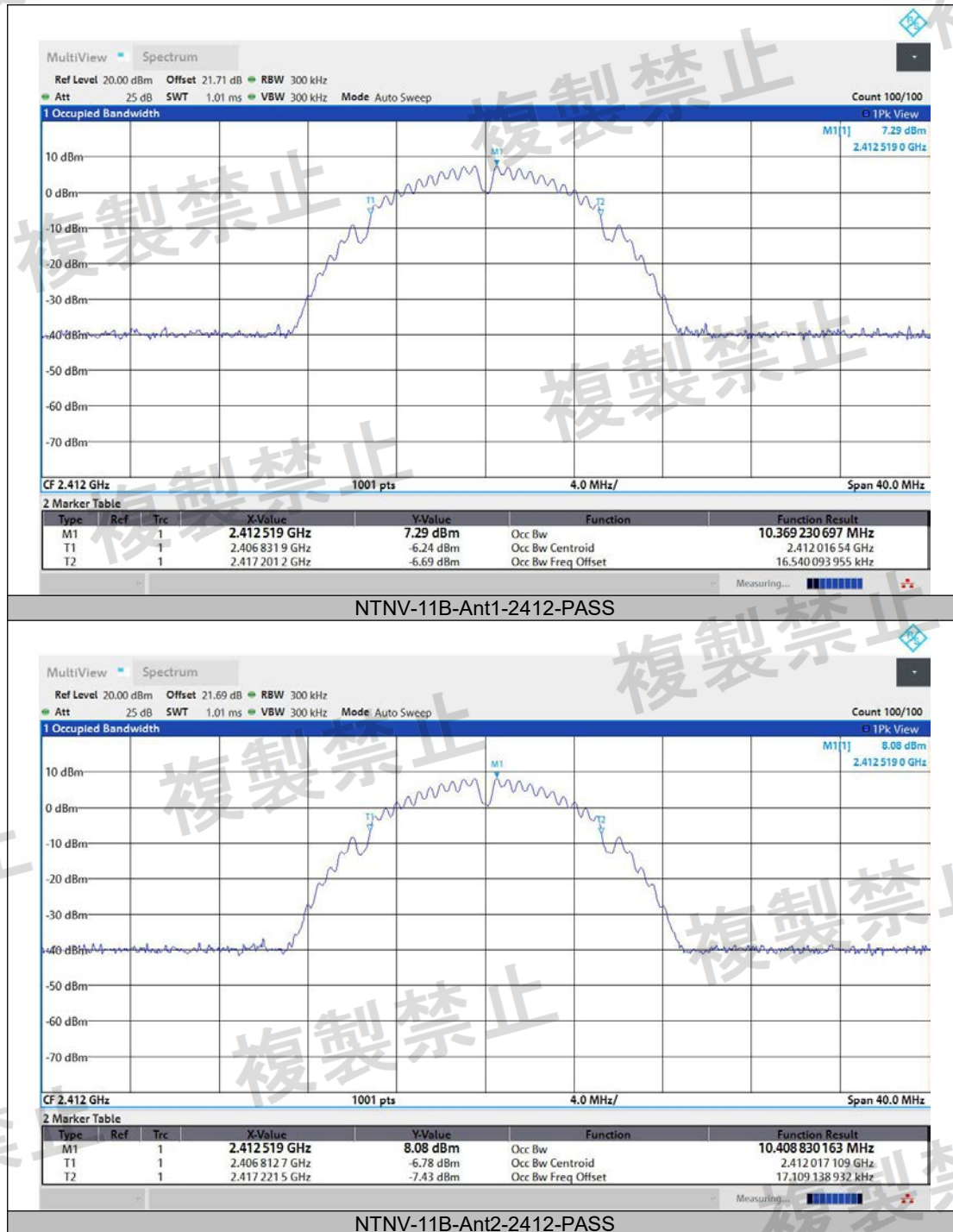
7.3.5 Environmental Conditions

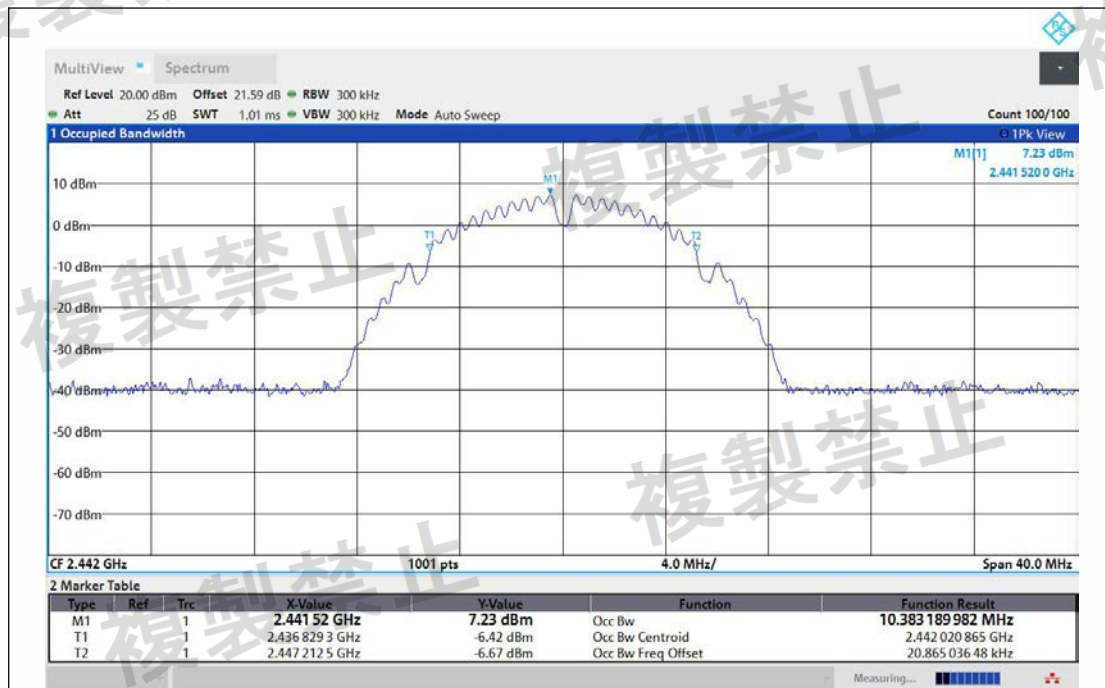
Temperature:	24.5°C
Relative Humidity:	45%
ATM Pressure:	1011 mbar

7.3.6 Test Results

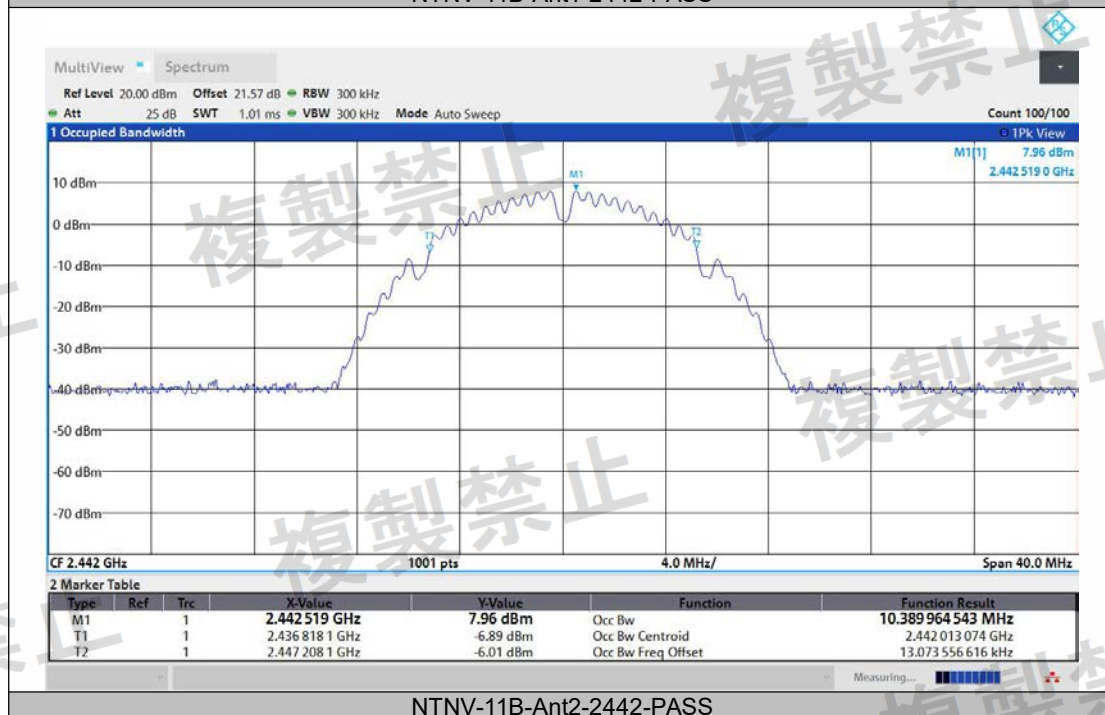
Occupied Bandwidth (99%)

TestCondition	TestMode	Antenna	Frequency[MHz]	Result [MHz]	Limit [MHz]	Verdict
NTNV	11B	Ant1	2412	10.369	≤26	PASS
NTNV	11B	Ant2	2412	10.409	≤26	PASS
NTNV	11B	Ant1	2442	10.383	≤26	PASS
NTNV	11B	Ant2	2442	10.390	≤26	PASS
NTNV	11B	Ant1	2472	10.396	≤26	PASS
NTNV	11B	Ant2	2472	10.390	≤26	PASS
NTNV	11G	Ant1	2412	17.118	≤26	PASS
NTNV	11G	Ant2	2412	17.082	≤26	PASS
NTNV	11G	Ant1	2442	17.112	≤26	PASS
NTNV	11G	Ant2	2442	17.116	≤26	PASS
NTNV	11G	Ant1	2472	17.137	≤26	PASS
NTNV	11G	Ant2	2472	17.079	≤26	PASS
NTNV	11N20MIMO	Ant1	2412	18.143	≤26	PASS
NTNV	11N20MIMO	Ant2	2412	17.936	≤26	PASS
NTNV	11N20MIMO	Ant1	2442	18.113	≤26	PASS
NTNV	11N20MIMO	Ant2	2442	17.921	≤26	PASS
NTNV	11N20MIMO	Ant1	2472	18.128	≤26	PASS
NTNV	11N20MIMO	Ant2	2472	17.966	≤26	PASS
NTNV	11N40MIMO	Ant1	2422	36.190	26-40	PASS
NTNV	11N40MIMO	Ant2	2422	36.187	26-40	PASS
NTNV	11N40MIMO	Ant1	2442	36.203	26-40	PASS
NTNV	11N40MIMO	Ant2	2442	36.158	26-40	PASS
NTNV	11N40MIMO	Ant1	2462	36.245	26-40	PASS
NTNV	11N40MIMO	Ant2	2462	36.170	26-40	PASS
NTNV	11AX20MIMO	Ant1	2412	19.082	≤26	PASS
NTNV	11AX20MIMO	Ant2	2412	19.129	≤26	PASS
NTNV	11AX20MIMO	Ant1	2442	19.083	≤26	PASS
NTNV	11AX20MIMO	Ant2	2442	19.098	≤26	PASS
NTNV	11AX20MIMO	Ant1	2472	19.066	≤26	PASS
NTNV	11AX20MIMO	Ant2	2472	19.092	≤26	PASS
NTNV	11AX40MIMO	Ant1	2422	37.557	26-40	PASS
NTNV	11AX40MIMO	Ant2	2422	37.546	26-40	PASS
NTNV	11AX40MIMO	Ant1	2442	37.528	26-40	PASS
NTNV	11AX40MIMO	Ant2	2442	37.506	26-40	PASS
NTNV	11AX40MIMO	Ant1	2462	37.493	26-40	PASS
NTNV	11AX40MIMO	Ant2	2462	37.477	26-40	PASS

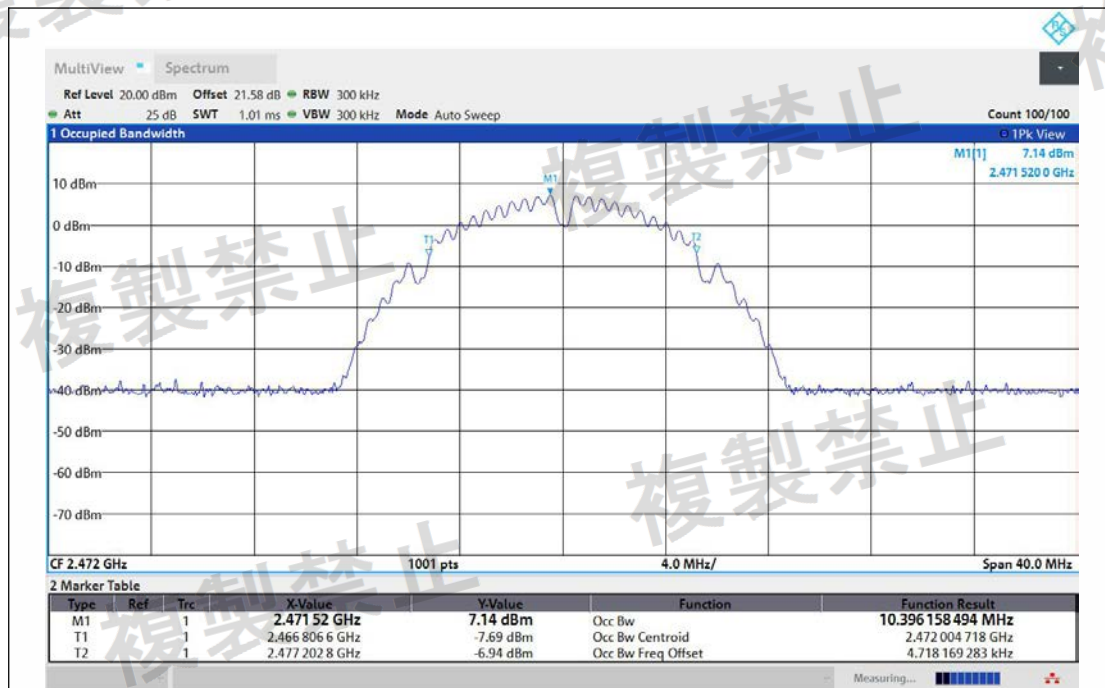




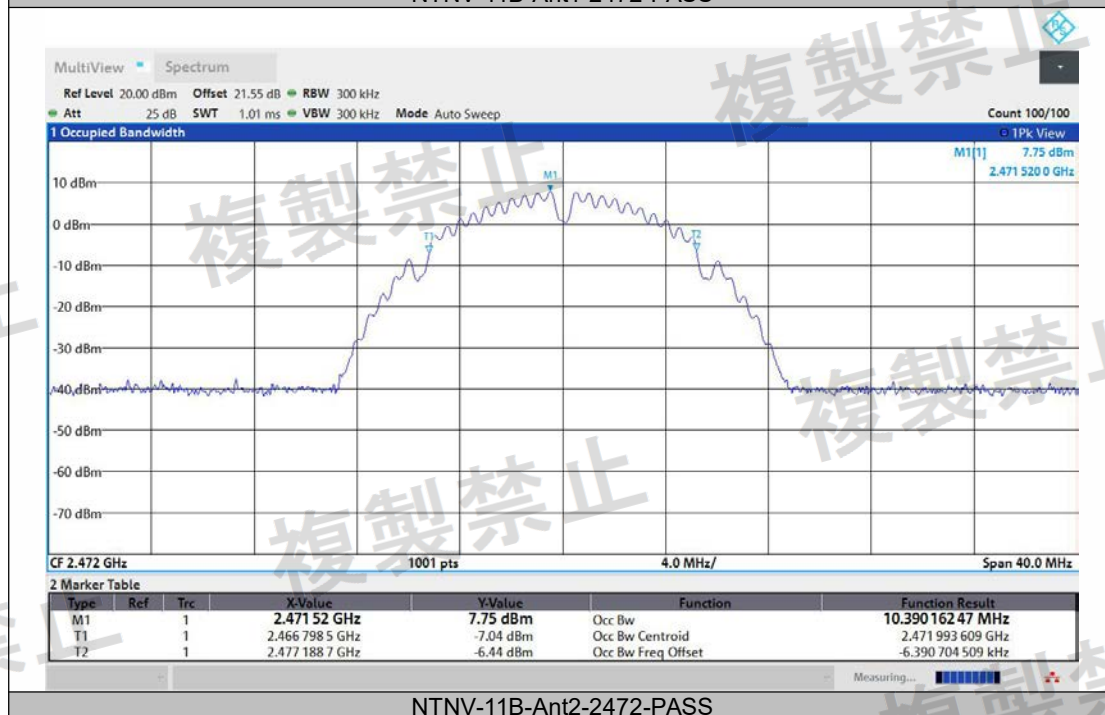
NTNV-11B-Ant1-2442-PASS



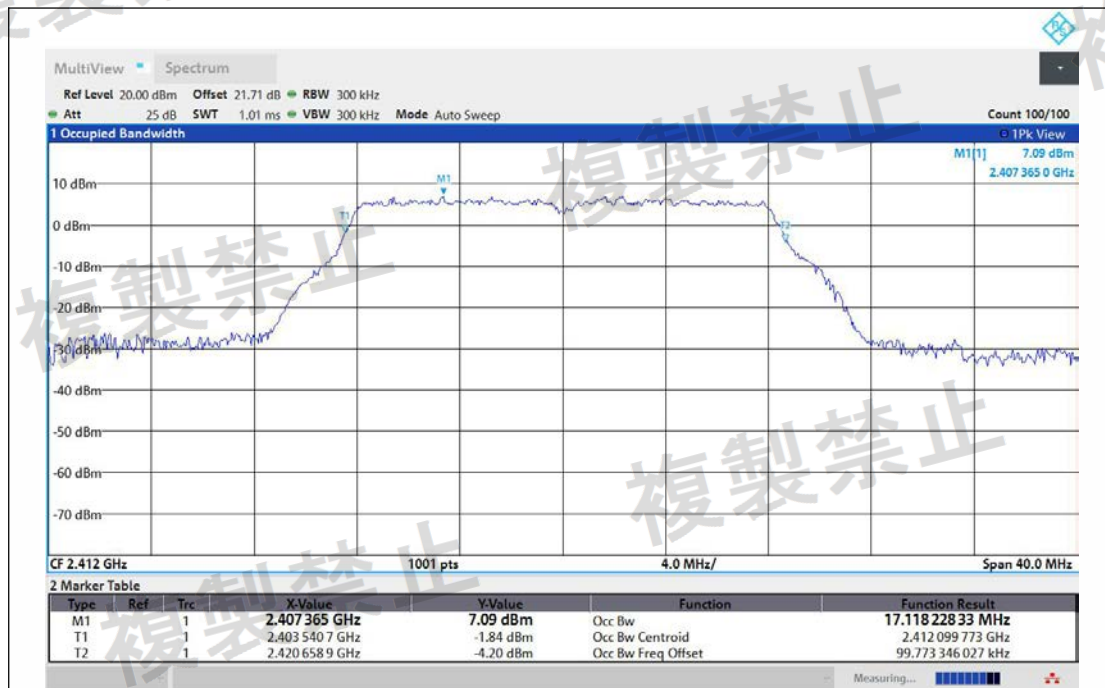
NTNV-11B-Ant2-2442-PASS



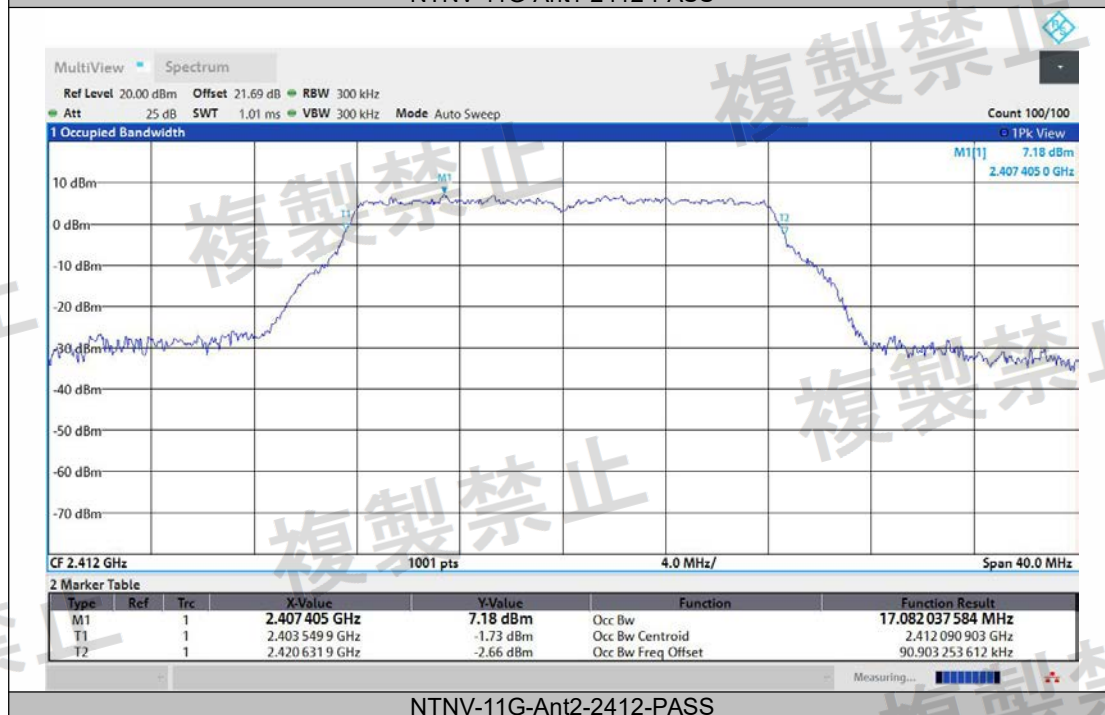
NTNV-11B-Ant1-2472-PASS



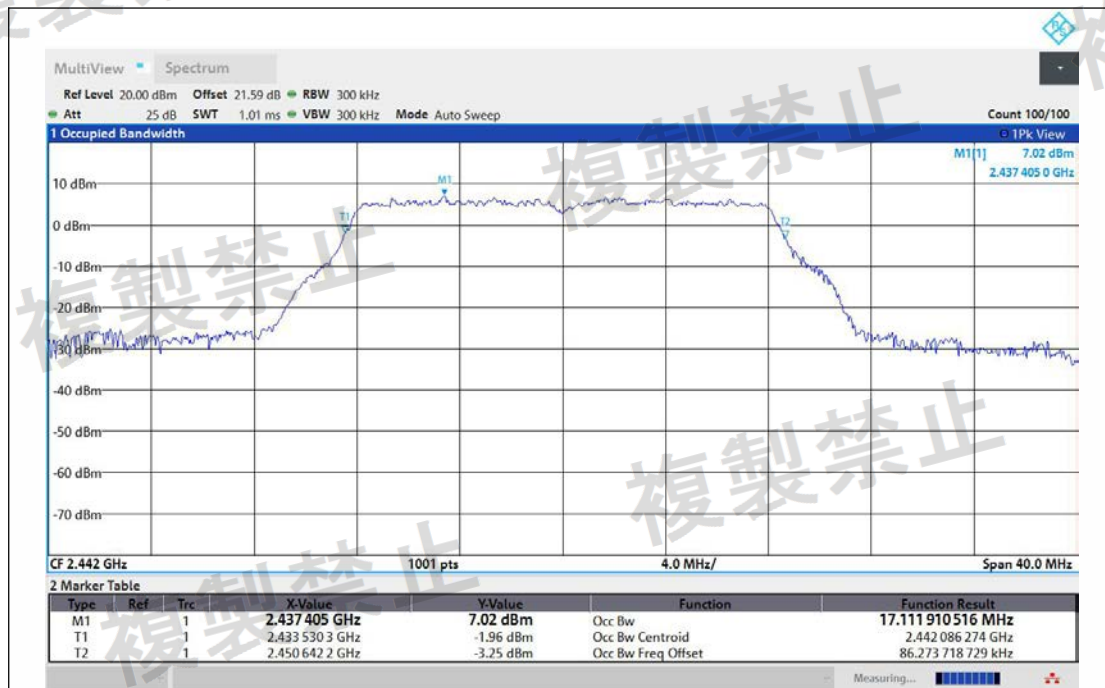
NTNV-11B-Ant2-2472-PASS



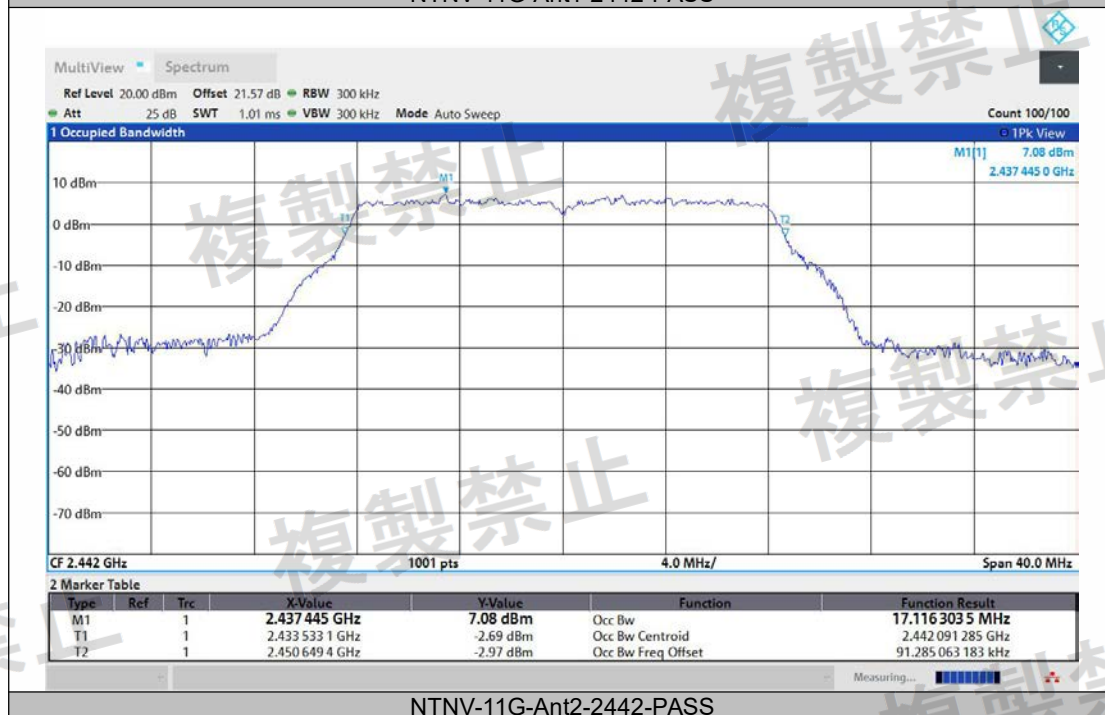
NTNV-11G-Ant1-2412-PASS



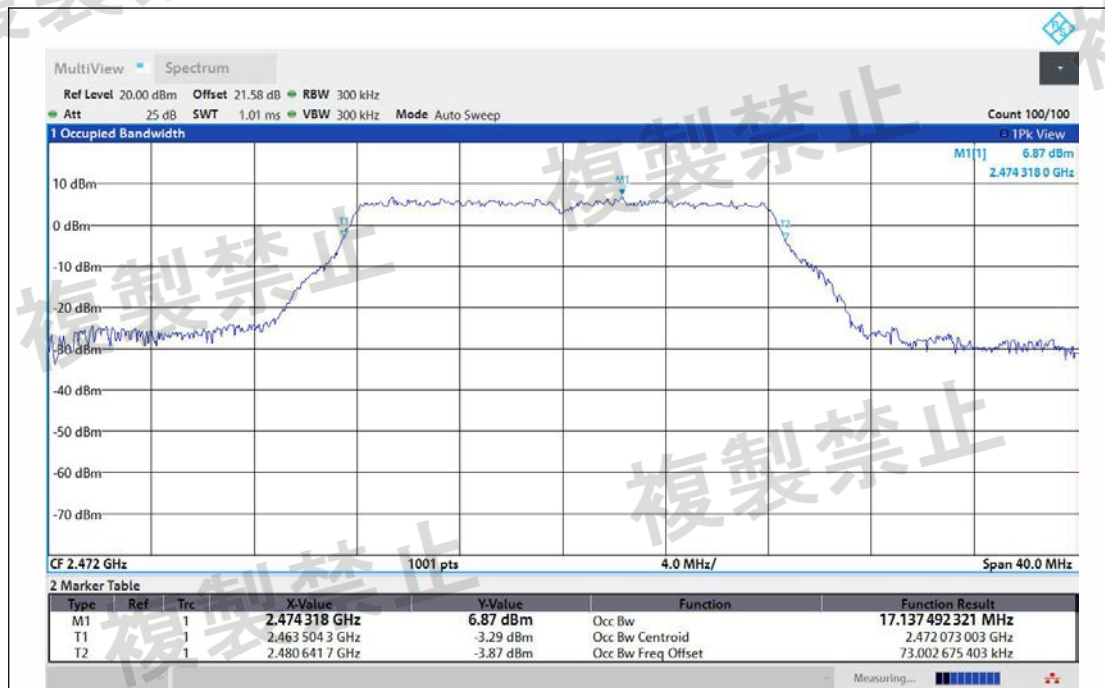
NTNV-11G-Ant2-2412-PASS



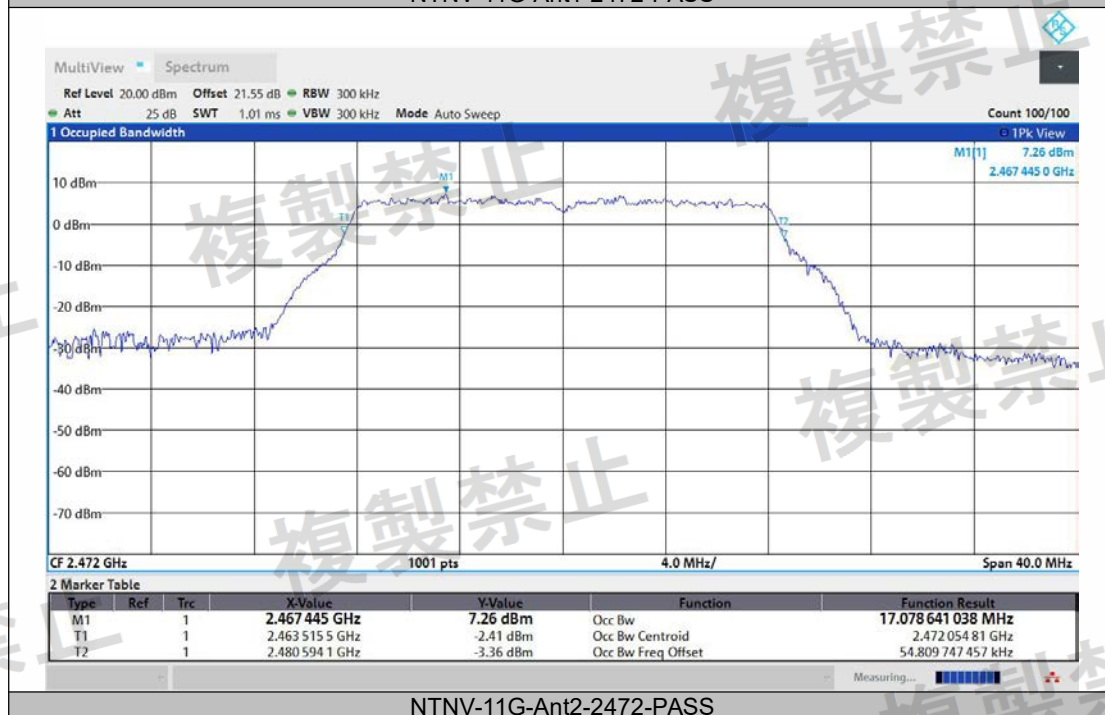
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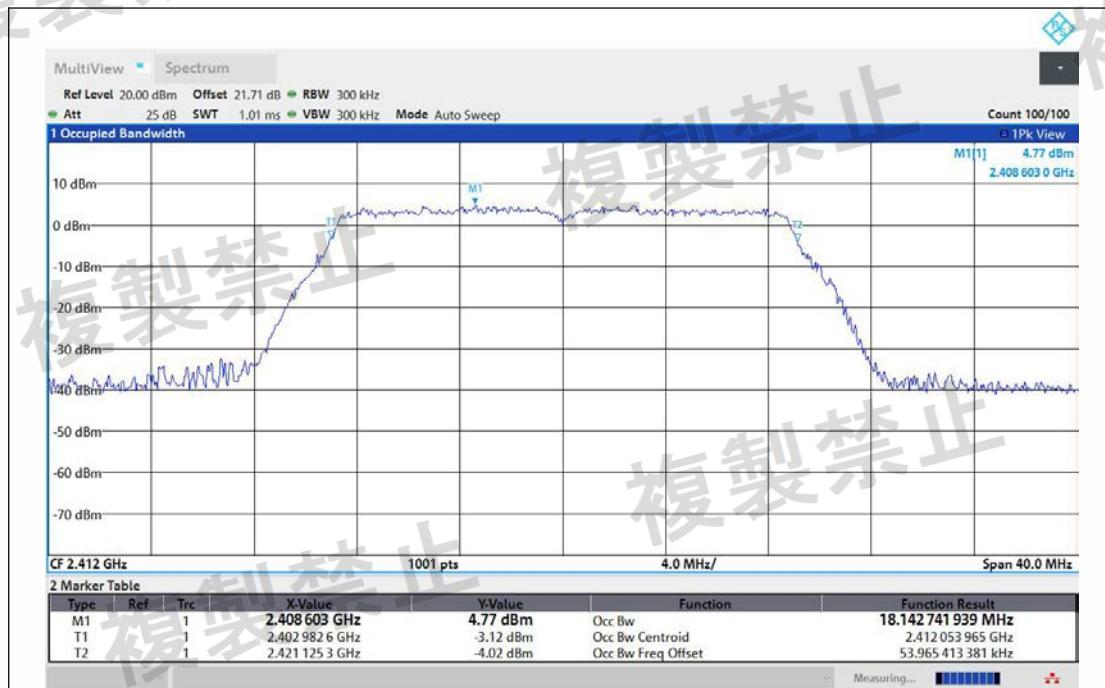
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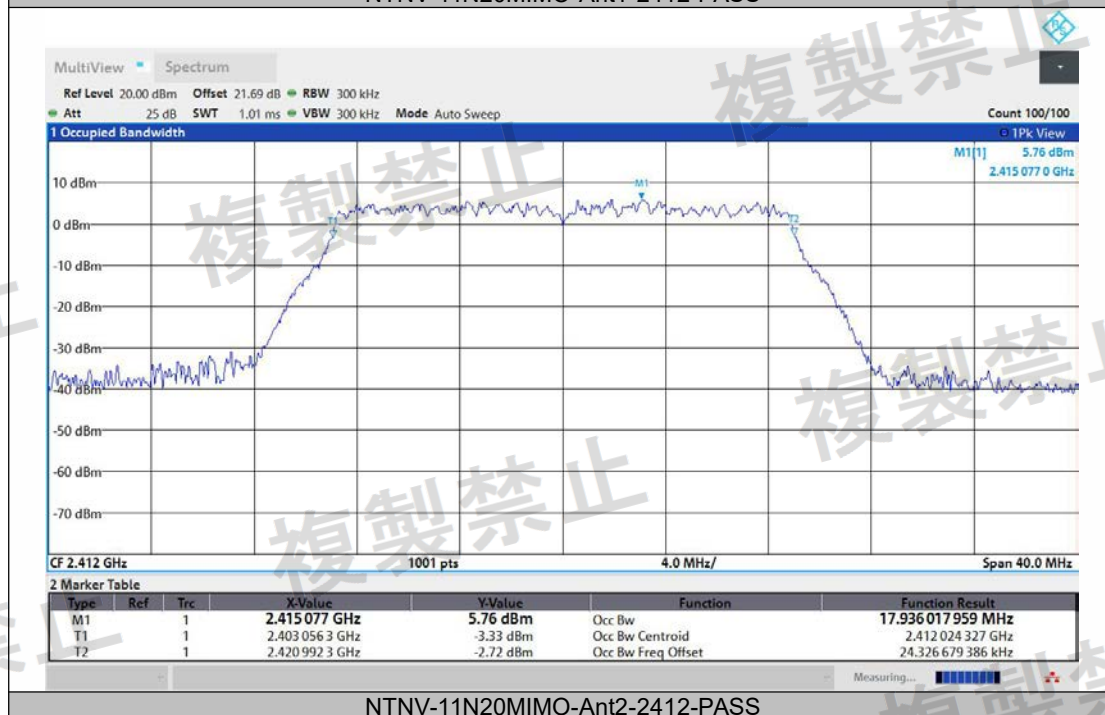
NTNV-11G-Ant1-2472-PASS



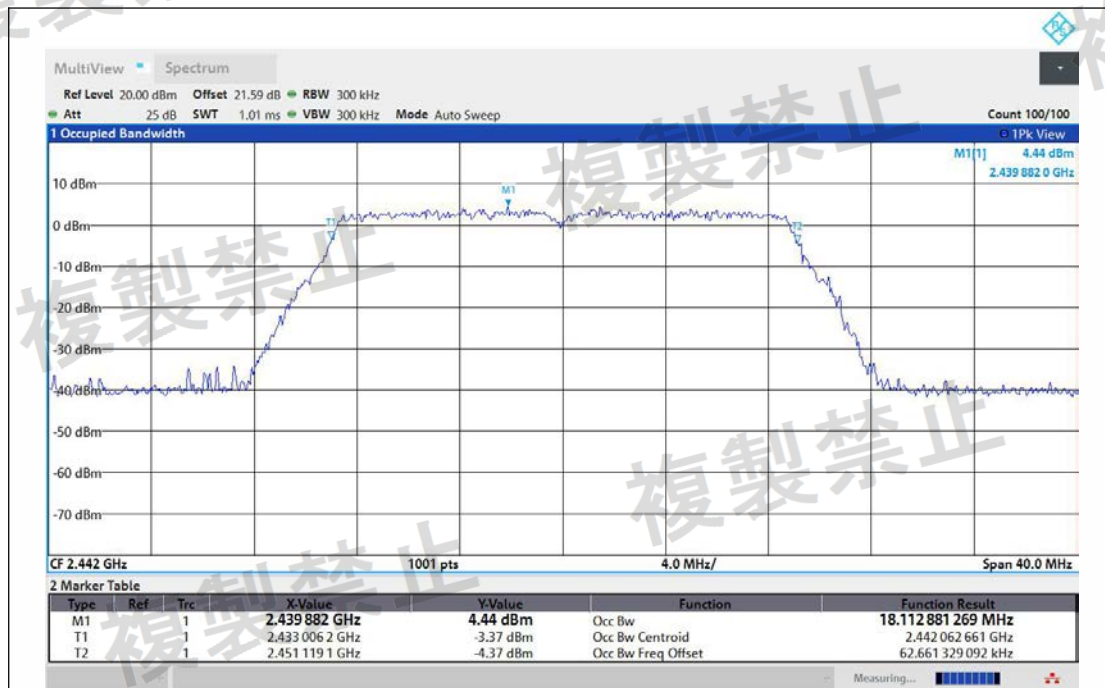
NTNV-11G-Ant2-2472-PASS



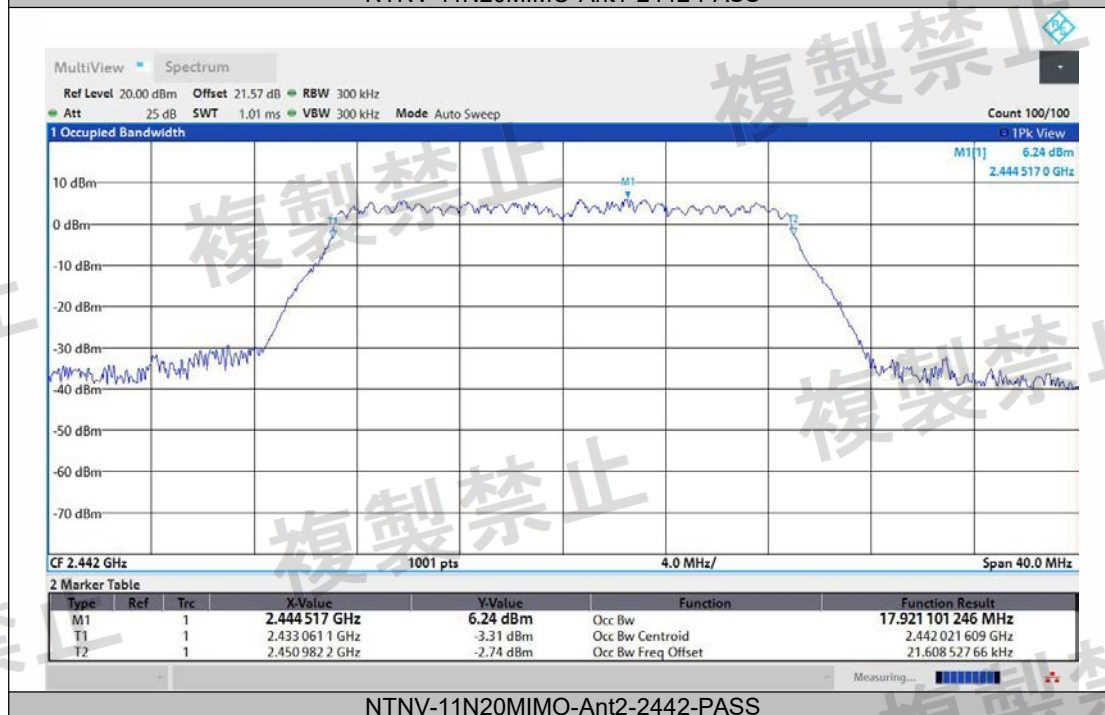
NTNV-11N20MIMO-Ant1-2412-PASS



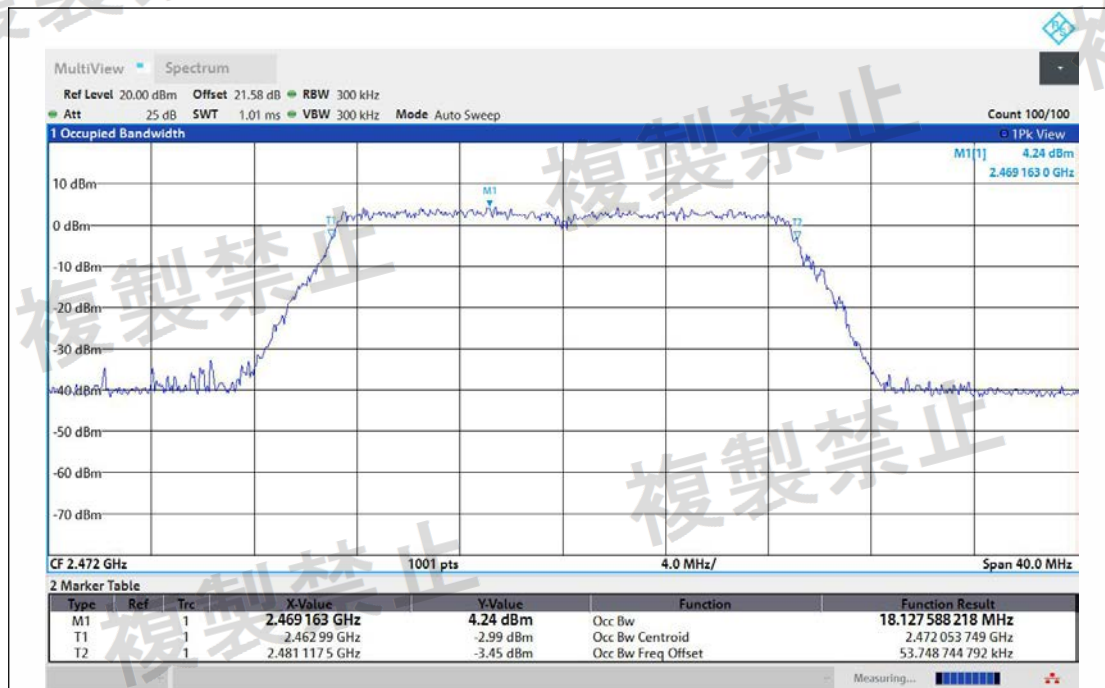
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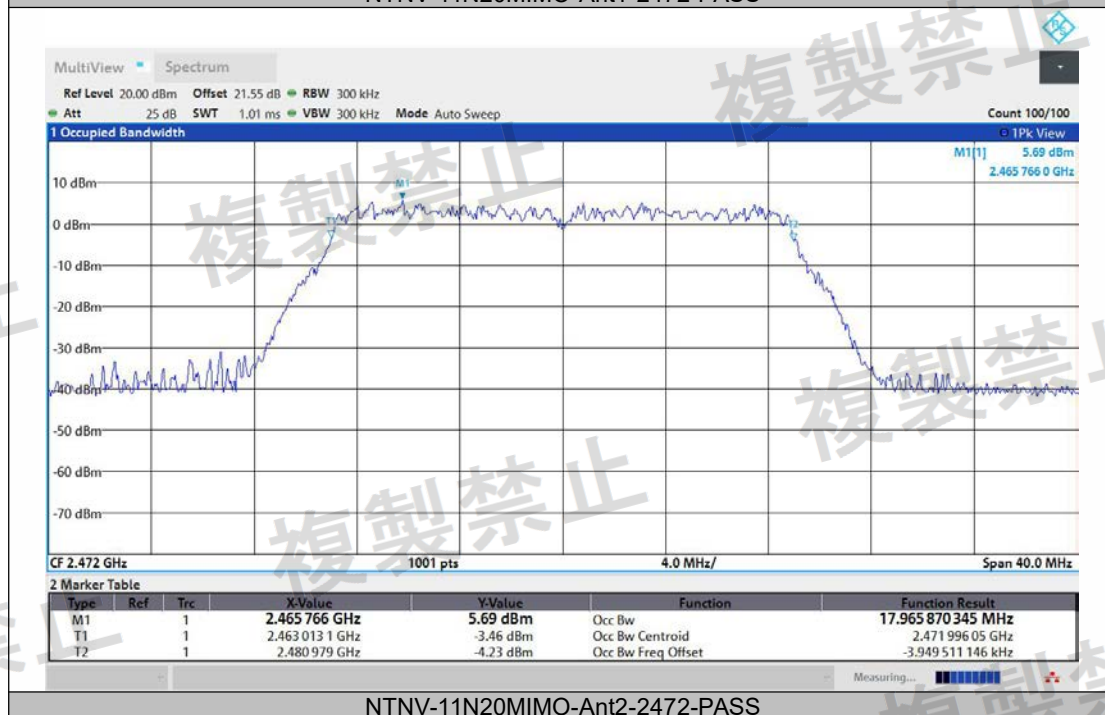
NTNV-11N20MIMO-Ant1-2442-PASS



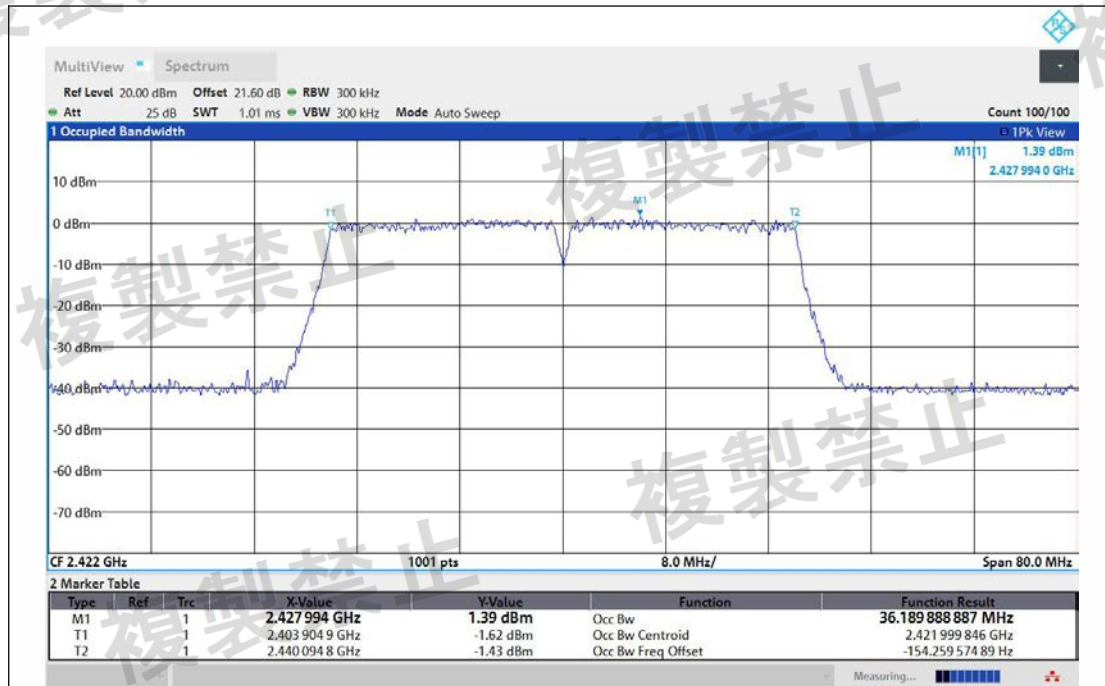
NTNV-11N20MIMO-Ant2-2442-PASS



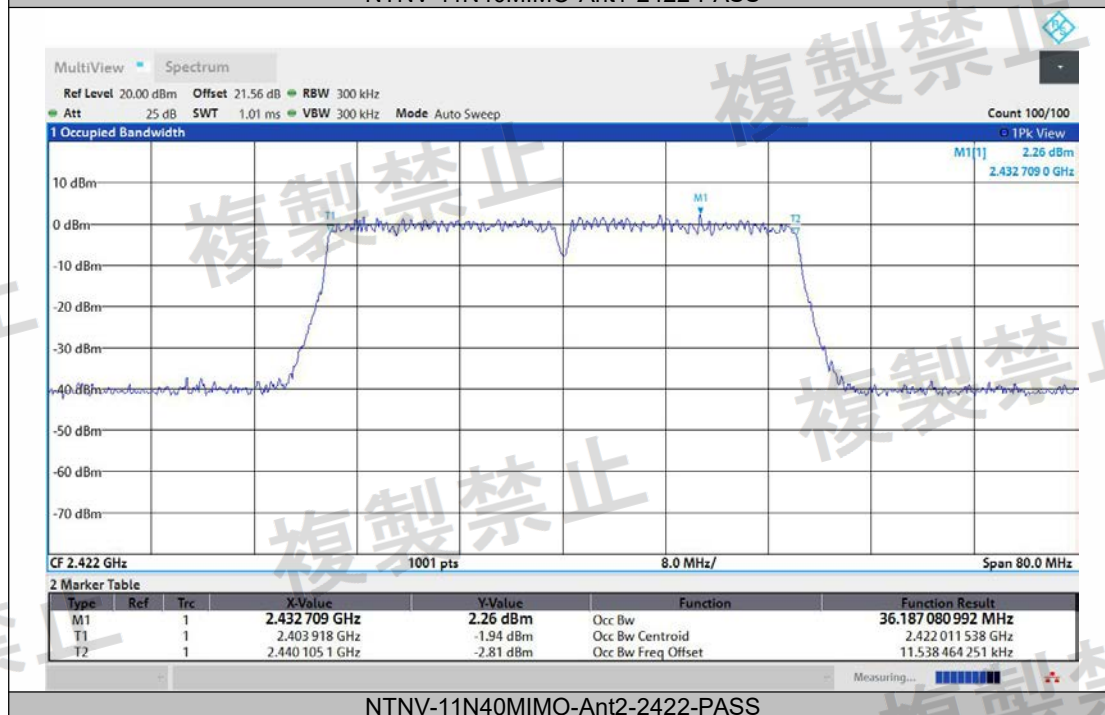
NTNV-11N20MIMO-Ant1-2472-PASS



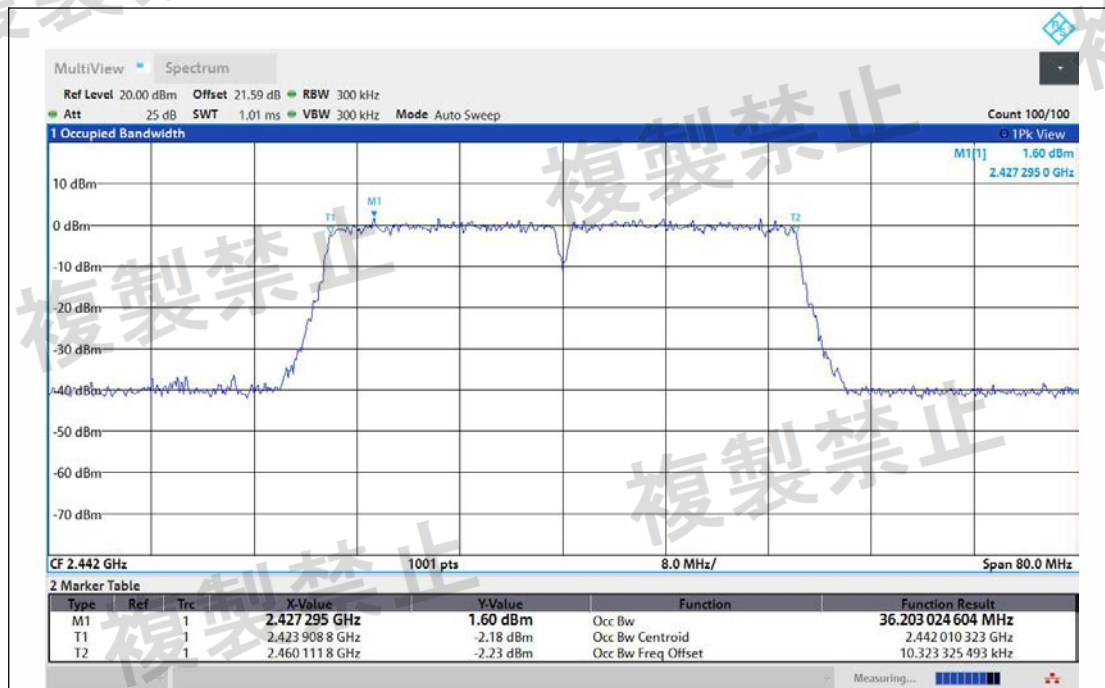
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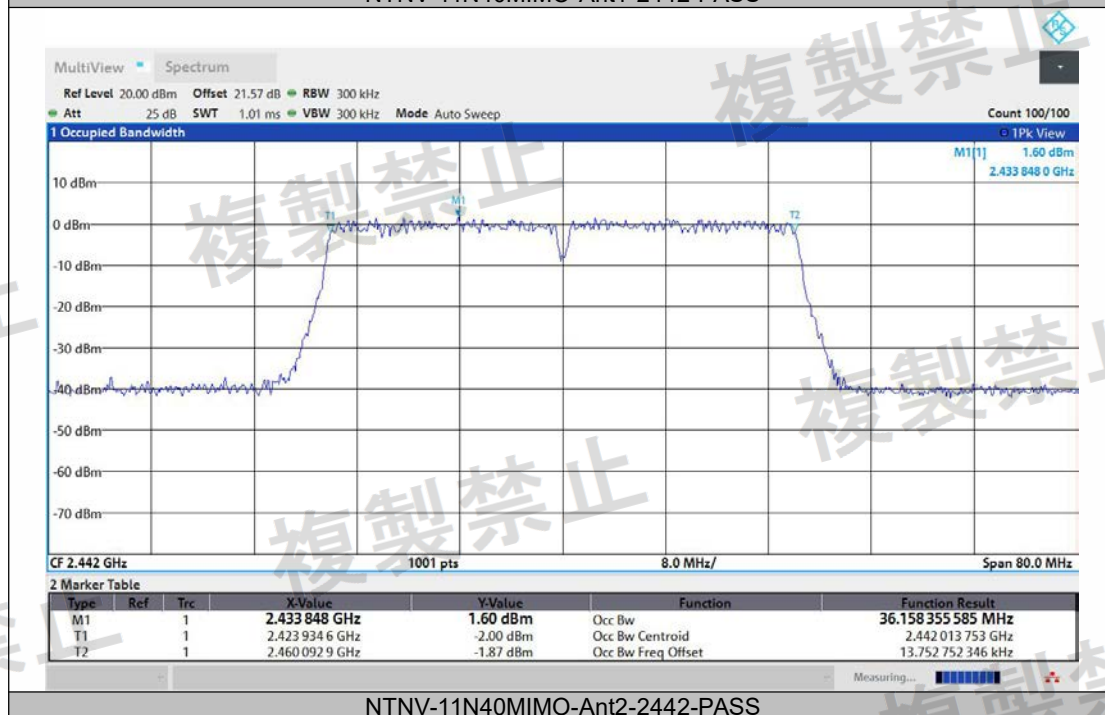
NTNV-11N40MIMO-Ant1-2422-PASS



NTNV-11N40MIMO-Ant2-2422-PASS



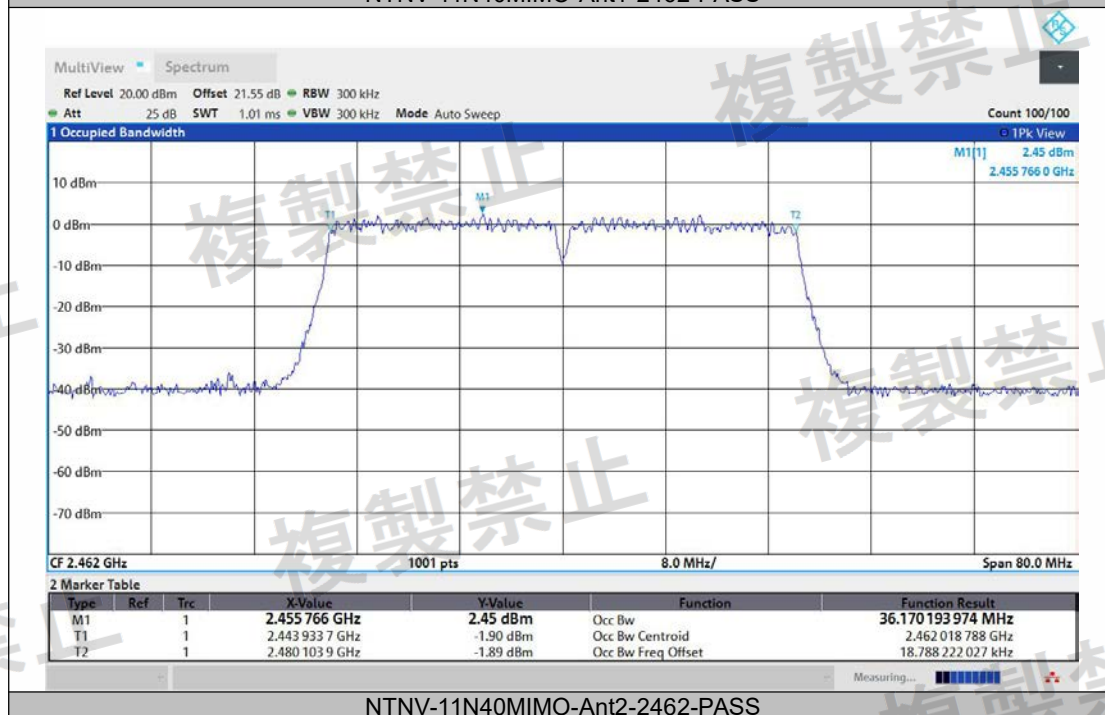
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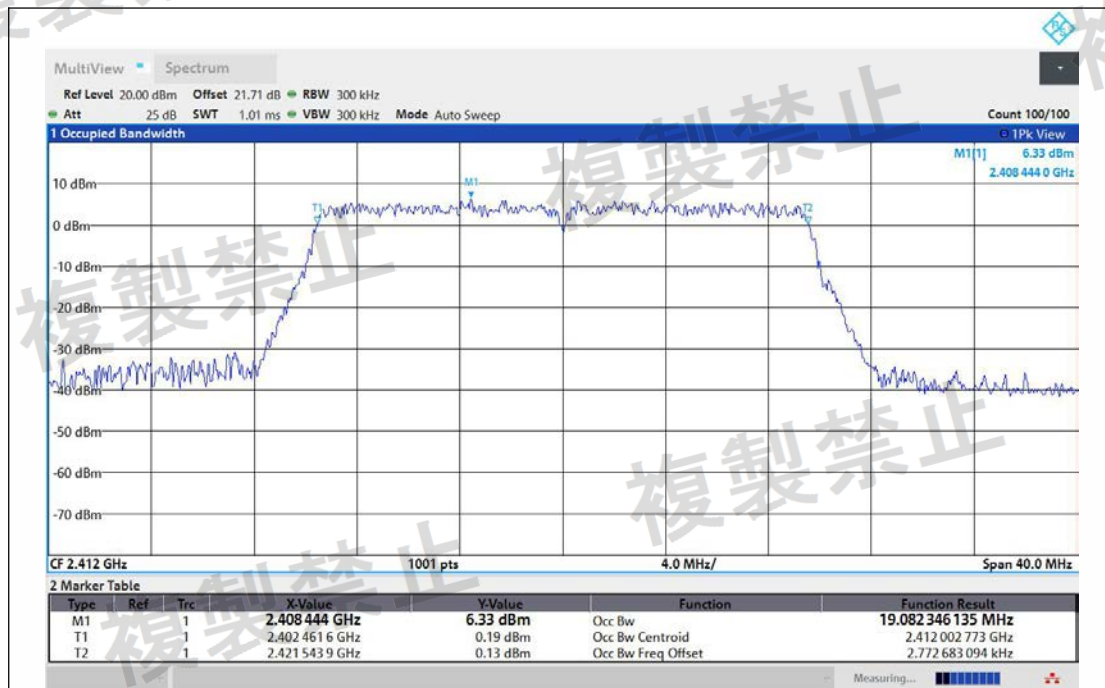
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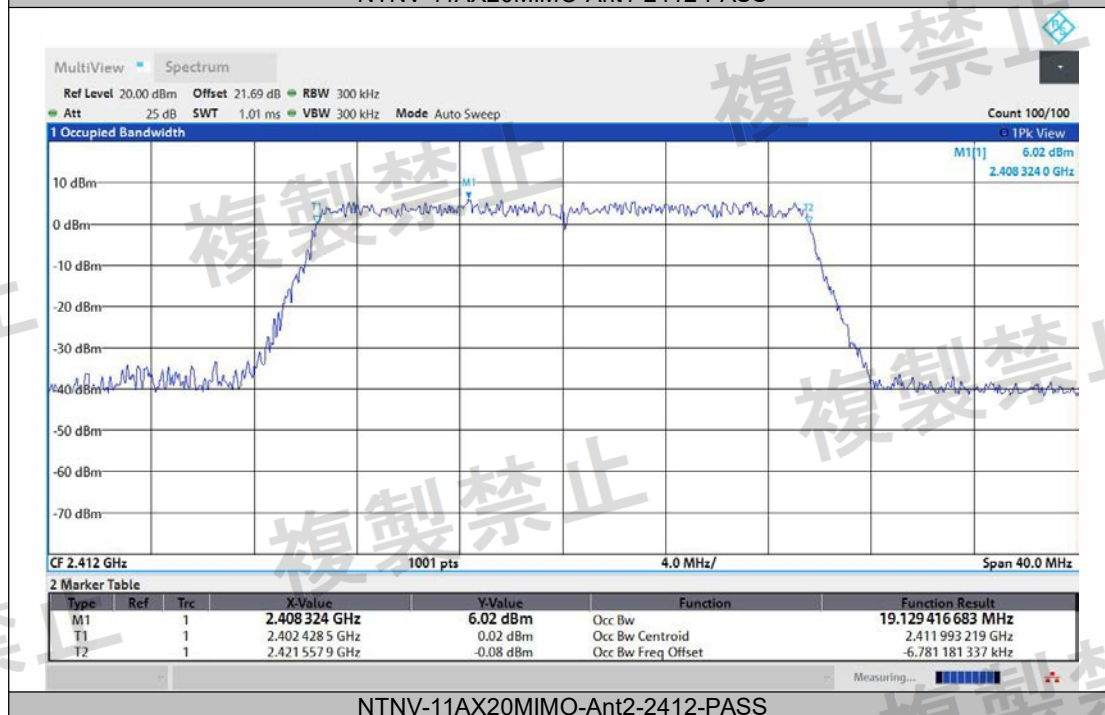
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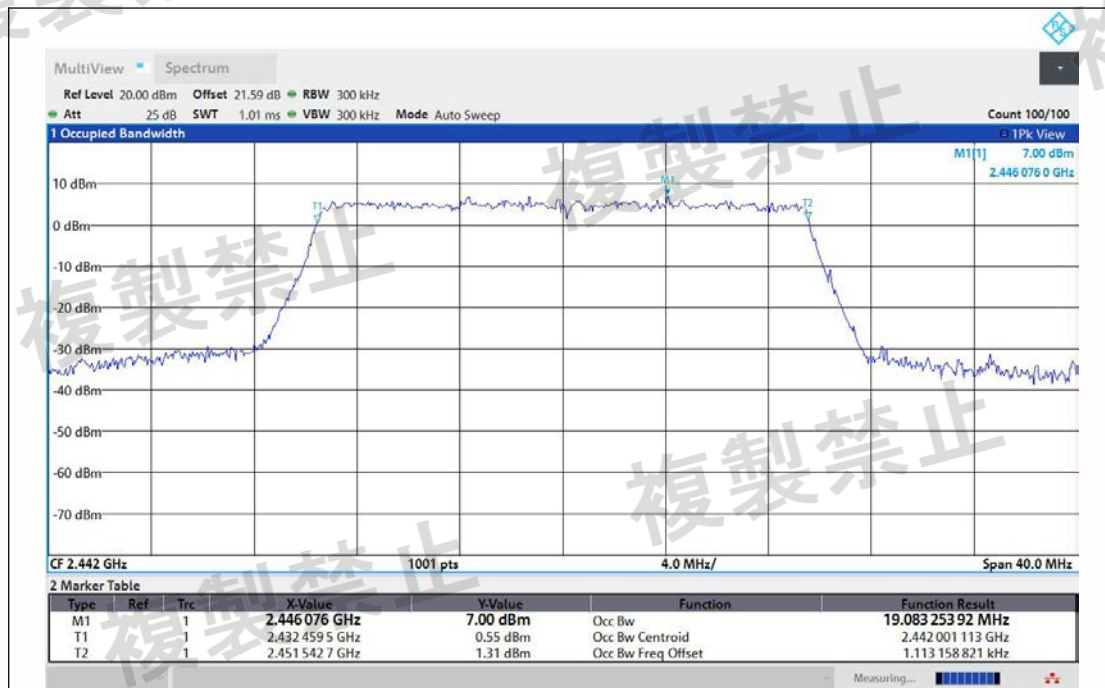
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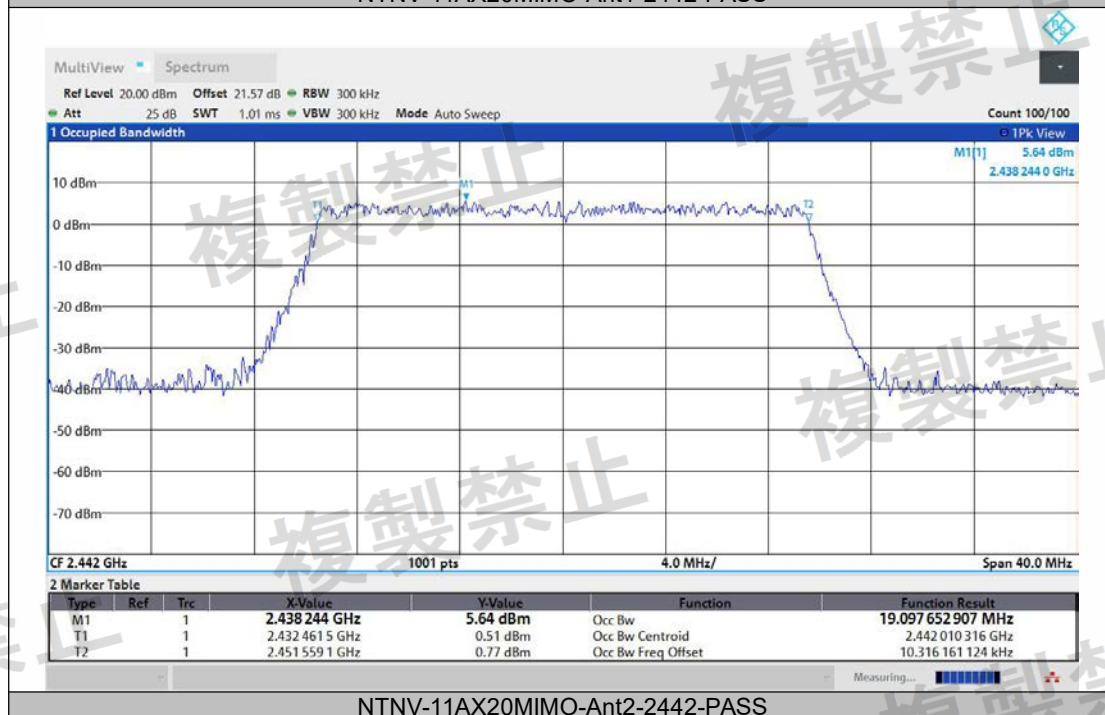
NTNV-11AX20MIMO-Ant1-2412-PASS



NTNV-11AX20MIMO-Ant2-2412-PASS



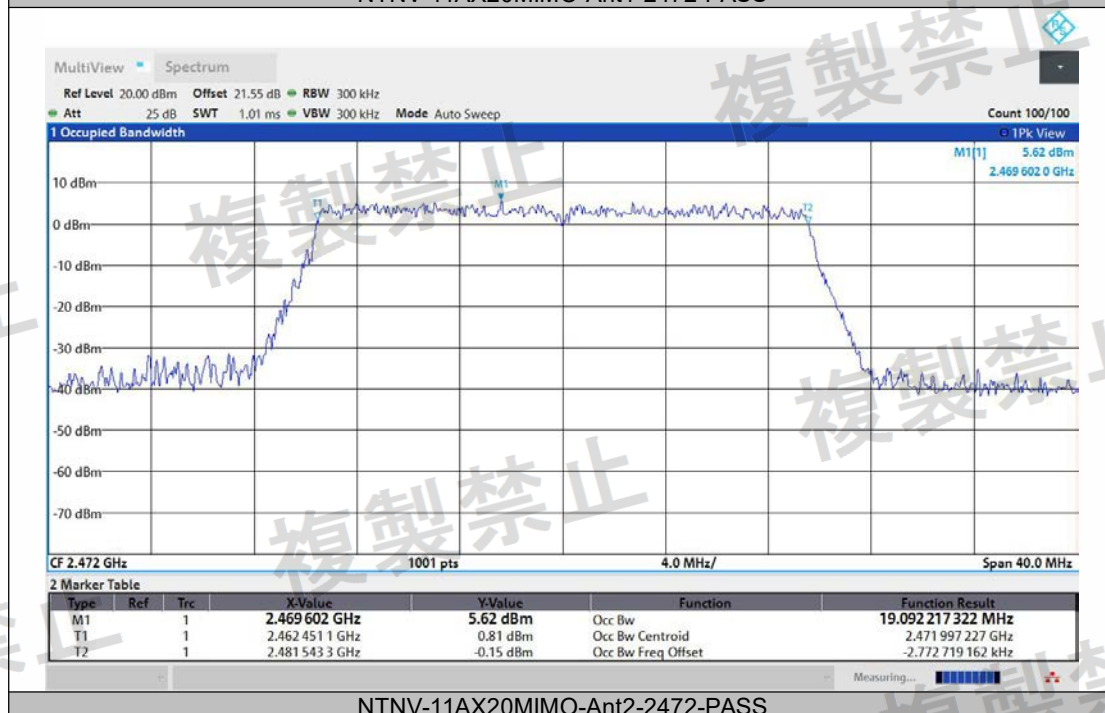
NTNV-11AX20MIMO-Ant1-2442-PASS



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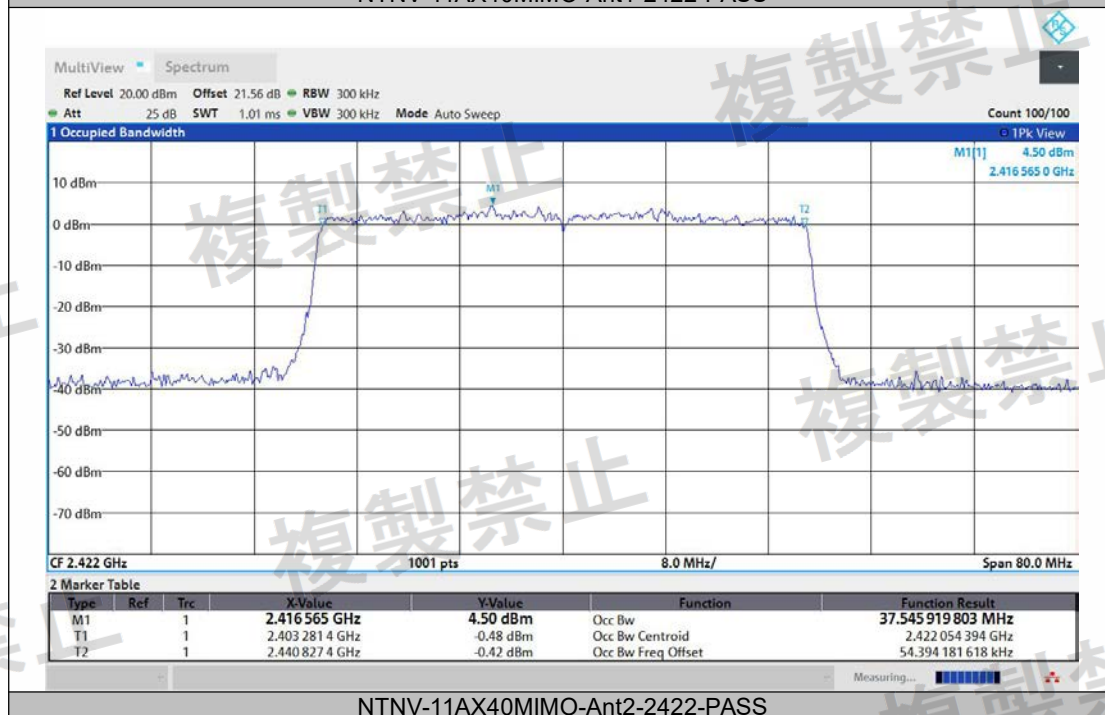
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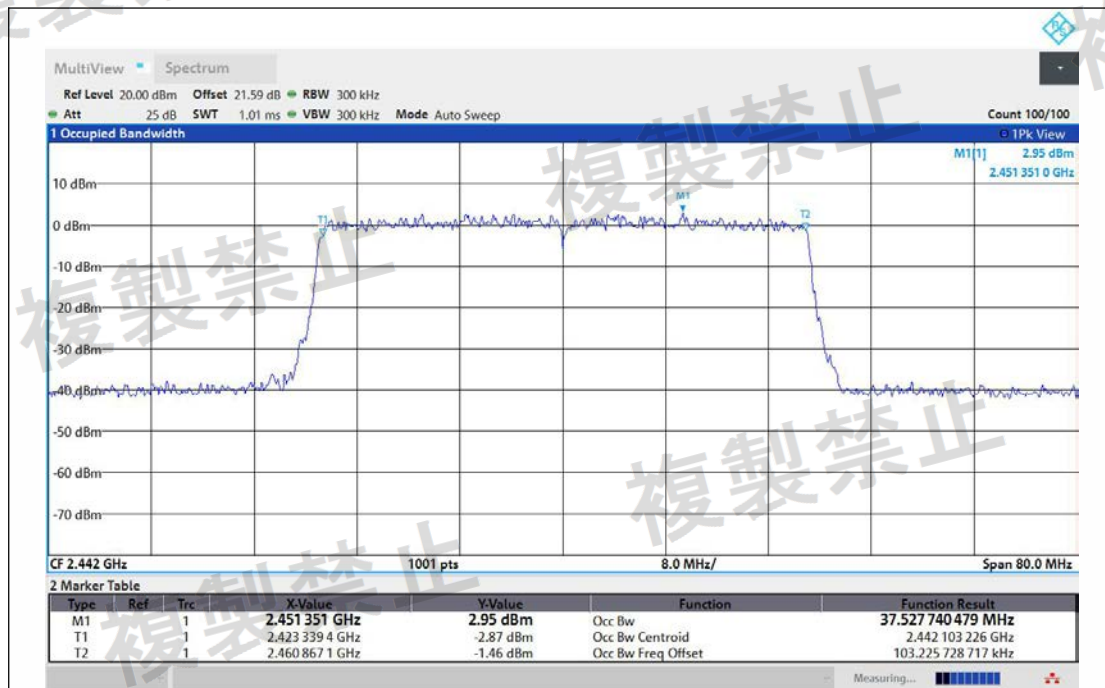
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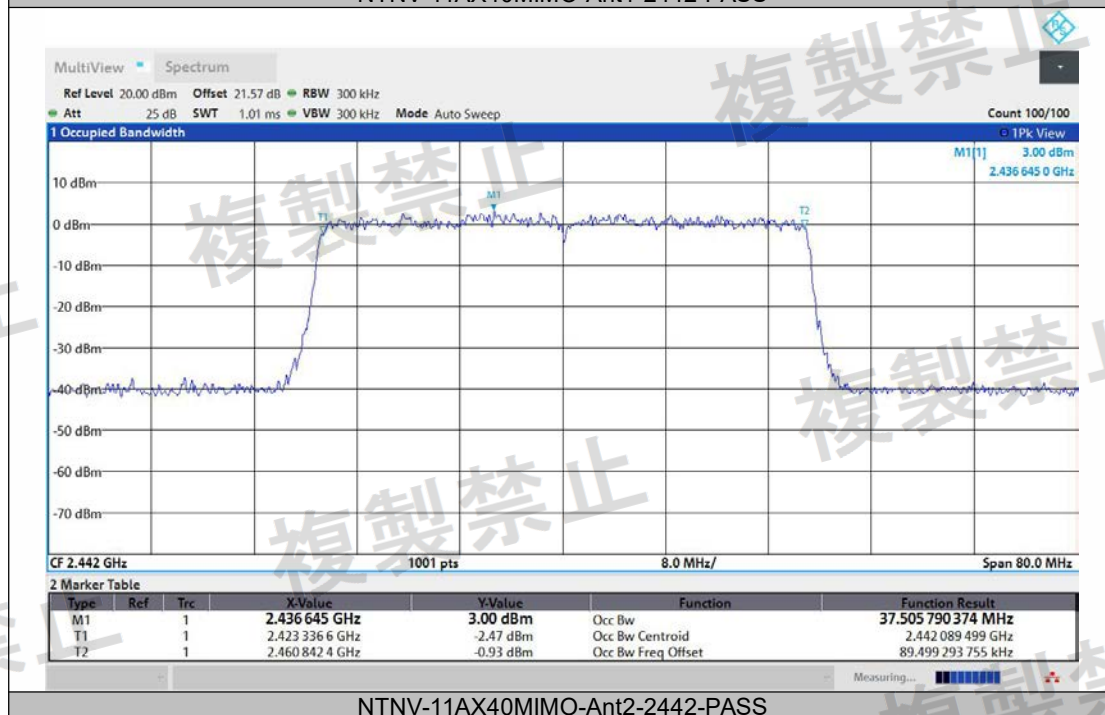
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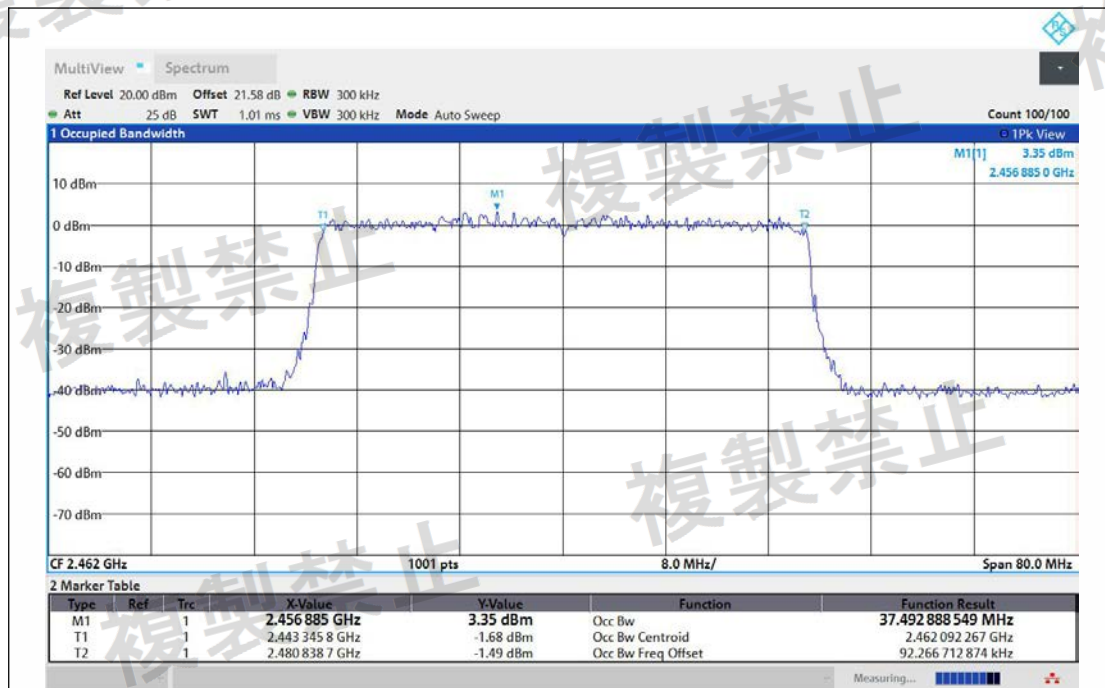
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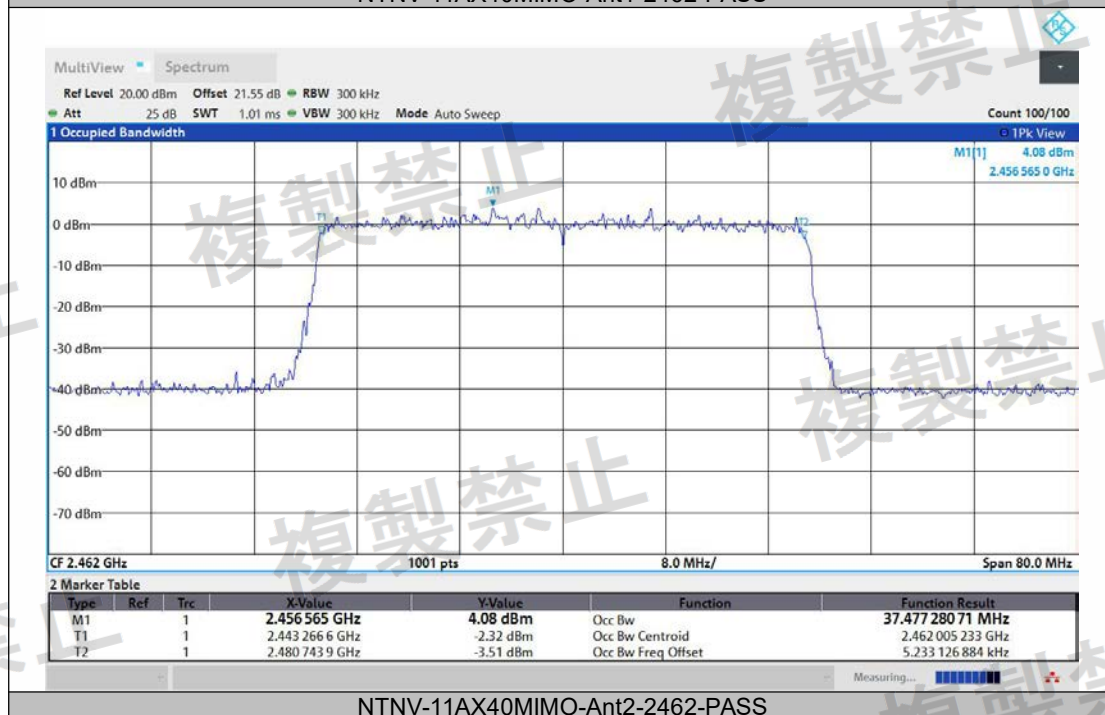
NTNV-11AX40MIMO-Ant1-2442-PASS



NTNV-11AX40MIMO-Ant2-2442-PASS



NTNV-11AX40MIMO-Ant1-2462-PASS



NTNV-11AX40MIMO-Ant2-2462-PASS

7.4 SPURIOUS EMISSIONS OF TX

7.4.1 Applicable Standard

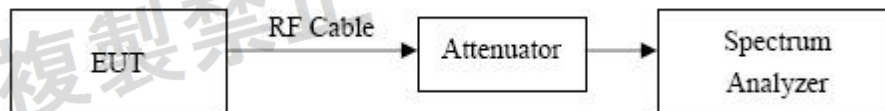
According to Item 19 of Article 2 Paragraph 1.

7.4.2 Conformance 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:

- (1) Below 2387MHz: $2.5\mu\text{W}/\text{MHz}$ (-26dB)
- (2) 2387 to 2400MHz: $25\mu\text{W}/\text{MHz}$ (-16dB)
- (3) 2483.5 through 2496.5MHz: $25\mu\text{W}/\text{MHz}$ (-16dB)
- (4) Over 2496.5MHz: $2.5\mu\text{W}/\text{MHz}$ (-26dB)

7.4.3 Test Setup Block Diagram



7.4.4 Test Procedure

(1) Spectrum analyzer for seeking the spurious emission is set as below

Sweeping Bandwidth	For seeking the spurious emission, from frequency lowest possible to the 5 times the carrier frequency
Resolution Bandwidth	1 MHz
Video Bandwidth	Approx. As same as Resolution bandwidth (1 MHz)
Y-Axis Scale	10 dB/Div
Input Level	Value of maximum dynamic range
Sweep Time	Minimum time to assure the measurement accuracy (Note 1)
Sweep Mode	Single sweep
Phase-Detection Mode	Positive peak

(2) The settings of the spectrum analyzer while conducting spurious amplitude measurements are as follows:

- Central Frequency: Acquired spurious frequencies in (1)
- Sweep Frequency 0 Hz
- Resolution Bandwidth 1 MHz
- Video Bandwidth same as Resolution Bandwidth
- Note: take into account that the requirement limits the power in a bandwidth of 1 MHz.
- If the measurement is carried out with a bandwidth of 100 kHz (for frequencies below 1 GHz), the limit shall be reduced with 10 dB.
- For example $2.5\mu\text{W}$ in 1 MHz = -26 dBm limit, becomes -36 dBm for 100 kHz bandwidth.
- Y-Axis Scale 10 dB/Div
- Input Level: choose input level within the linear range of the SA mixer (so that no additional spurious are generated by the mixer)
- Sweep Time: Minimum amount of time to ensure measurement accuracy. However, in the case of burst waves, time exceeds duration of 1 burst.
- Data Points Over 400 points
- Sweep Mode: Single sweep

- Detection Mode Sample (BIN-Width $\ll$ RBW, so that all spurious emissions are captured) [BIN-width is the frequency difference between 2 adjacent sample points on the display]

(3) Set EUT as occupied bandwidth is measure. That is, Set the EUT on the test frequency and the continuous

TX mode or continuous (constant period, constant burst length) burst TX mode. In case of spreading code used, set on the test spreading code, then the modulation is performed with standard coding test signal.

The spectrum analyzer is set as 2 (1). Seek the spurious emission If the amplitude of the sought spurious emission satisfies the specified value (in case of 2 (2) Note 1, the specified value is -3dB), the measurement of 2 (2) is not performed, then the estimated value is employed as the measured value.

In case the sought spurious emission amplitude exceeds the specified value, seek the spurious frequency by narrowing the sweeping band sequentially as 100 MHz, 10 MHz, 1 MHz for the purpose of higher accuracy of the spectrum analyzer. Set the spectrum analyzer as 2 (2). Estimate the mean value of the spurious amplitude, then employ it as the measured value (In case DSSS as well as OFDM with burst wave, the mean inside of the burst).

Sweep Bandwidth: 30MHz~2387MHz, 2483.5MHz~2496.5MHz, 2496.5MHz~12500MHz

Respectively mark the maximum results in the above sweep bandwidth.

7.4.5 Environmental Conditions

Temperature:	24.5°C
Relative Humidity:	45%
ATM Pressure:	1011 mbar

7.4.6 Test Results

TestCondition	TestMode	Antenna	Frequen cy[MHz]	Freq.Range [MHz]	Freq. [MHz]	Result [dBm]	Limit [dBm]	Result [μW]	Limit [μW]	Verdict
NTNV	11B	Ant1	2412	30~2387	32.06	-41.19	≤-26	0.07603	≤2.5	PASS
NTNV	11B	Ant2	2412	30~2387	31.47	-40.59	≤-26	0.08730	≤2.5	PASS
NTNV	11B	Ant1	2412	2387~2400	2396.35	-37.18	≤-16	0.19143	≤25	PASS
NTNV	11B	Ant2	2412	2387~2400	2395.60	-38.42	≤-16	0.14388	≤25	PASS
NTNV	11B	Ant1	2412	2483.5~2496.5	2485.80	-40.79	≤-16	0.08337	≤25	PASS
NTNV	11B	Ant2	2412	2483.5~2496.5	2486.46	-40.66	≤-16	0.08590	≤25	PASS
NTNV	11B	Ant1	2412	2496.5~13000	6998.00	-38.08	≤-26	0.15560	≤2.5	PASS
NTNV	11B	Ant2	2412	2496.5~13000	6964.91	-37.98	≤-26	0.15922	≤2.5	PASS
NTNV	11B	Ant1	2442	30~2387	35.30	-40.83	≤-26	0.08260	≤2.5	PASS
NTNV	11B	Ant2	2442	30~2387	35.01	-41.17	≤-26	0.07638	≤2.5	PASS
NTNV	11B	Ant1	2442	2387~2400	2389.89	-41.14	≤-16	0.07691	≤25	PASS
NTNV	11B	Ant2	2442	2387~2400	2393.32	-40.97	≤-16	0.07998	≤25	PASS
NTNV	11B	Ant1	2442	2483.5~2496.5	2489.92	-41.21	≤-16	0.07568	≤25	PASS
NTNV	11B	Ant2	2442	2483.5~2496.5	2484.13	-40.93	≤-16	0.08072	≤25	PASS
NTNV	11B	Ant1	2442	2496.5~13000	7430.24	-37.46	≤-26	0.17947	≤2.5	PASS
NTNV	11B	Ant2	2442	2496.5~13000	7496.94	-38.05	≤-26	0.15668	≤2.5	PASS
NTNV	11B	Ant1	2472	30~2387	34.12	-41.24	≤-26	0.07516	≤2.5	PASS
NTNV	11B	Ant2	2472	30~2387	34.12	-41.46	≤-26	0.07145	≤2.5	PASS
NTNV	11B	Ant1	2472	2387~2400	2392.10	-41.85	≤-16	0.06531	≤25	PASS
NTNV	11B	Ant2	2472	2387~2400	2391.95	-41.41	≤-16	0.07228	≤25	PASS
NTNV	11B	Ant1	2472	2483.5~2496.5	2486.73	-38.63	≤-16	0.13709	≤25	PASS
NTNV	11B	Ant2	2472	2483.5~2496.5	2485.67	-38.79	≤-16	0.13213	≤25	PASS
NTNV	11B	Ant1	2472	2496.5~13000	7449.67	-38.64	≤-26	0.13677	≤2.5	PASS
NTNV	11B	Ant2	2472	2496.5~13000	7485.39	-38.49	≤-26	0.14158	≤2.5	PASS
NTNV	11G	Ant1	2412	30~2387	2383.76	-28.49	≤-26	1.41579	≤2.5	See table below
NTNV	11G	Ant2	2412	30~2387	2383.76	-28.00	≤-26	1.58489	≤2.5	See table below
NTNV	11G	Ant1	2412	2387~2400	2394.23	-22.61	≤-16	5.48277	≤25	PASS
NTNV	11G	Ant2	2412	2387~2400	2399.65	-22.70	≤-16	5.37032	≤25	PASS
NTNV	11G	Ant1	2412	2483.5~2496.5	2484.72	-43.02	≤-16	0.04989	≤25	PASS
NTNV	11G	Ant2	2412	2483.5~2496.5	2487.22	-42.95	≤-16	0.05070	≤25	PASS
NTNV	11G	Ant1	2412	2496.5~13000	7493.26	-38.57	≤-26	0.13900	≤2.5	PASS
NTNV	11G	Ant2	2412	2496.5~13000	6974.89	-38.78	≤-26	0.13243	≤2.5	PASS
NTNV	11G	Ant1	2442	30~2387	33.24	-40.59	≤-26	0.08730	≤2.5	PASS
NTNV	11G	Ant2	2442	30~2387	2379.93	-41.15	≤-26	0.07674	≤2.5	PASS
NTNV	11G	Ant1	2442	2387~2400	2399.23	-33.38	≤-16	0.45920	≤25	PASS
NTNV	11G	Ant2	2442	2387~2400	2399.81	-32.78	≤-16	0.52723	≤25	PASS
NTNV	11G	Ant1	2442	2483.5~2496.5	2483.51	-36.52	≤-16	0.22284	≤25	PASS

NTNV	11G	Ant2	2442	2483.5~2496.5	2484.04	-37.14	≤-16	0.19320	≤25	PASS
NTNV	11G	Ant1	2442	2496.5~13000	7485.91	-38.85	≤-26	0.13032	≤2.5	PASS
NTNV	11G	Ant2	2442	2496.5~13000	7496.94	-37.83	≤-26	0.16482	≤2.5	PASS
NTNV	11G	Ant1	2472	30~2387	34.12	-41.42	≤-26	0.07211	≤2.5	PASS
NTNV	11G	Ant2	2472	30~2387	35.30	-41.94	≤-26	0.06397	≤2.5	PASS
NTNV	11G	Ant1	2472	2387~2400	2396.80	-41.16	≤-16	0.07656	≤25	PASS
NTNV	11G	Ant2	2472	2387~2400	2390.40	-40.98	≤-16	0.07980	≤25	PASS
NTNV	11G	Ant1	2472	2483.5~2496.5	2483.52	-13.33	≤-16	46.4515 3	≤25	See table below
NTNV	11G	Ant2	2472	2483.5~2496.5	2483.51	-13.57	≤-16	43.9541 6	≤25	See table below
NTNV	11G	Ant1	2472	2496.5~13000	2499.13	-37.04	≤-26	0.19770	≤2.5	PASS
NTNV	11G	Ant2	2472	2496.5~13000	2496.50	-34.82	≤-26	0.32961	≤2.5	PASS
NTNV	11N20MIM O	Ant1	2412	30~2387	2387.00	-38.28	≤-26	0.14859	≤2.5	PASS
NTNV	11N20MIM O	Ant2	2412	30~2387	2380.81	-37.95	≤-26	0.16032	≤2.5	PASS
NTNV	11N20MIM O	Ant1	2412	2387~2400	2398.74	-21.14	≤-16	7.69130	≤25	PASS
NTNV	11N20MIM O	Ant2	2412	2387~2400	2399.25	-21.25	≤-16	7.49894	≤25	PASS
NTNV	11N20MIM O	Ant1	2412	2483.5~2496.5	2492.62	-37.82	≤-16	0.16520	≤25	PASS
NTNV	11N20MIM O	Ant2	2412	2483.5~2496.5	2489.15	-37.48	≤-16	0.17865	≤25	PASS
NTNV	11N20MIM O	Ant1	2412	2496.5~13000	7419.74	-38.31	≤-26	0.14757	≤2.5	PASS
NTNV	11N20MIM O	Ant2	2412	2496.5~13000	6986.45	-37.96	≤-26	0.15996	≤2.5	PASS
NTNV	11N20MIM O	Ant1	2442	30~2387	31.47	-41.21	≤-26	0.07568	≤2.5	PASS
NTNV	11N20MIM O	Ant2	2442	30~2387	32.06	-41.23	≤-26	0.07534	≤2.5	PASS
NTNV	11N20MIM O	Ant1	2442	2387~2400	2398.51	-37.30	≤-16	0.18621	≤25	PASS
NTNV	11N20MIM O	Ant2	2442	2387~2400	2397.22	-37.15	≤-16	0.19275	≤25	PASS
NTNV	11N20MIM O	Ant1	2442	2483.5~2496.5	2485.80	-35.72	≤-16	0.26792	≤25	PASS
NTNV	11N20MIM O	Ant2	2442	2483.5~2496.5	2485.89	-37.20	≤-16	0.19055	≤25	PASS
NTNV	11N20MIM O	Ant1	2442	2496.5~13000	7425.51	-38.14	≤-26	0.15346	≤2.5	PASS
NTNV	11N20MIM O	Ant2	2442	2496.5~13000	7406.08	-38.07	≤-26	0.15596	≤2.5	PASS
NTNV	11N20MIM O	Ant1	2472	30~2387	30.88	-41.04	≤-26	0.07870	≤2.5	PASS
NTNV	11N20MIM O	Ant2	2472	30~2387	35.01	-40.89	≤-26	0.08147	≤2.5	PASS
NTNV	11N20MIM O	Ant1	2472	2387~2400	2387.46	-37.96	≤-16	0.15996	≤25	PASS
NTNV	11N20MIM O	Ant2	2472	2387~2400	2399.55	-37.12	≤-16	0.19409	≤25	PASS
NTNV	11N20MIM O	Ant1	2472	2483.5~2496.5	2483.54	-14.24	≤-16	37.6703 8	≤25	See table below
NTNV	11N20MIM O	Ant2	2472	2483.5~2496.5	2483.54	-16.92	≤-16	20.3235 7	≤25	See table below
NTNV	11N20MIM O	Ant1	2472	2496.5~13000	6343.07	-38.23	≤-26	0.15031	≤2.5	PASS
NTNV	11N20MIM O	Ant2	2472	2496.5~13000	7446.52	-38.16	≤-26	0.15276	≤2.5	PASS
NTNV	11N40MIM O	Ant1	2422	30~2387	2384.35	-32.31	≤-26	0.58749	≤2.5	PASS
NTNV	11N40MIM O	Ant2	2422	30~2387	2386.71	-32.21	≤-26	0.60117	≤2.5	PASS

NTNV	11N40MIM O	Ant1	2422	2387~2400	2397.58	-26.01	≤-16	2.50611	≤25	PASS
NTNV	11N40MIM O	Ant2	2422	2387~2400	2397.10	-26.04	≤-16	2.48886	≤25	PASS
NTNV	11N40MIM O	Ant1	2422	2483.5~2496.5	2483.91	-37.58	≤-16	0.17458	≤25	PASS
NTNV	11N40MIM O	Ant2	2422	2483.5~2496.5	2485.22	-37.49	≤-16	0.17824	≤25	PASS
NTNV	11N40MIM O	Ant1	2422	2496.5~13000	7486.44	-37.98	≤-26	0.15922	≤2.5	PASS
NTNV	11N40MIM O	Ant2	2422	2496.5~13000	7452.30	-38.41	≤-26	0.14421	≤2.5	PASS
NTNV	11N40MIM O	Ant1	2442	30~2387	32.06	-41.56	≤-26	0.06982	≤2.5	PASS
NTNV	11N40MIM O	Ant2	2442	30~2387	35.30	-41.48	≤-26	0.07112	≤2.5	PASS
NTNV	11N40MIM O	Ant1	2442	2387~2400	2397.76	-33.71	≤-16	0.42560	≤25	PASS
NTNV	11N40MIM O	Ant2	2442	2387~2400	2399.31	-34.57	≤-16	0.34914	≤25	PASS
NTNV	11N40MIM O	Ant1	2442	2483.5~2496.5	2483.98	-34.38	≤-16	0.36475	≤25	PASS
NTNV	11N40MIM O	Ant2	2442	2483.5~2496.5	2489.67	-34.30	≤-16	0.37154	≤25	PASS
NTNV	11N40MIM O	Ant1	2442	2496.5~13000	7480.66	-38.20	≤-26	0.15136	≤2.5	PASS
NTNV	11N40MIM O	Ant2	2442	2496.5~13000	5477.54	-38.33	≤-26	0.14689	≤2.5	PASS
NTNV	11N40MIM O	Ant1	2462	30~2387	31.18	-39.80	≤-26	0.10471	≤2.5	PASS
NTNV	11N40MIM O	Ant2	2462	30~2387	34.71	-41.00	≤-26	0.07943	≤2.5	PASS
NTNV	11N40MIM O	Ant1	2462	2387~2400	2395.97	-36.90	≤-16	0.20417	≤25	PASS
NTNV	11N40MIM O	Ant2	2462	2387~2400	2395.22	-37.23	≤-16	0.18923	≤25	PASS
NTNV	11N40MIM O	Ant1	2462	2483.5~2496.5	2483.51	-25.85	≤-16	2.60016	≤25	PASS
NTNV	11N40MIM O	Ant2	2462	2483.5~2496.5	2483.50	-26.68	≤-16	2.14783	≤25	PASS
NTNV	11N40MIM O	Ant1	2462	2496.5~13000	7494.84	-38.03	≤-26	0.15740	≤2.5	PASS
NTNV	11N40MIM O	Ant2	2462	2496.5~13000	2500.18	-37.31	≤-26	0.18578	≤2.5	PASS
NTNV	11AX20MI MO	Ant1	2412	30~2387	2386.41	-34.65	≤-26	0.34277	≤2.5	PASS
NTNV	11AX20MI MO	Ant2	2412	30~2387	2379.05	-36.17	≤-26	0.24155	≤2.5	PASS
NTNV	11AX20MI MO	Ant1	2412	2387~2400	2399.98	-18.27	≤-16	14.8936 1	≤25	See table below
NTNV	11AX20MI MO	Ant2	2412	2387~2400	2399.99	-20.32	≤-16	9.28966	≤25	PASS
NTNV	11AX20MI MO	Ant1	2412	2483.5~2496.5	2492.03	-37.97	≤-16	0.15959	≤25	PASS
NTNV	11AX20MI MO	Ant2	2412	2483.5~2496.5	2492.06	-37.82	≤-16	0.16520	≤25	PASS
NTNV	11AX20MI MO	Ant1	2412	2496.5~13000	7482.24	-38.10	≤-26	0.15488	≤2.5	PASS
NTNV	11AX20MI MO	Ant2	2412	2496.5~13000	7464.38	-37.55	≤-26	0.17579	≤2.5	PASS
NTNV	11AX20MI MO	Ant1	2442	30~2387	31.18	-40.29	≤-26	0.09354	≤2.5	PASS
NTNV	11AX20MI MO	Ant2	2442	30~2387	32.06	-41.41	≤-26	0.07228	≤2.5	PASS
NTNV	11AX20MI MO	Ant1	2442	2387~2400	2394.42	-37.77	≤-16	0.16711	≤25	PASS
NTNV	11AX20MI MO	Ant2	2442	2387~2400	2397.77	-35.99	≤-16	0.25177	≤25	PASS
NTNV	11AX20MI MO	Ant1	2442	2483.5~2496.5	2486.81	-37.81	≤-16	0.16558	≤25	PASS

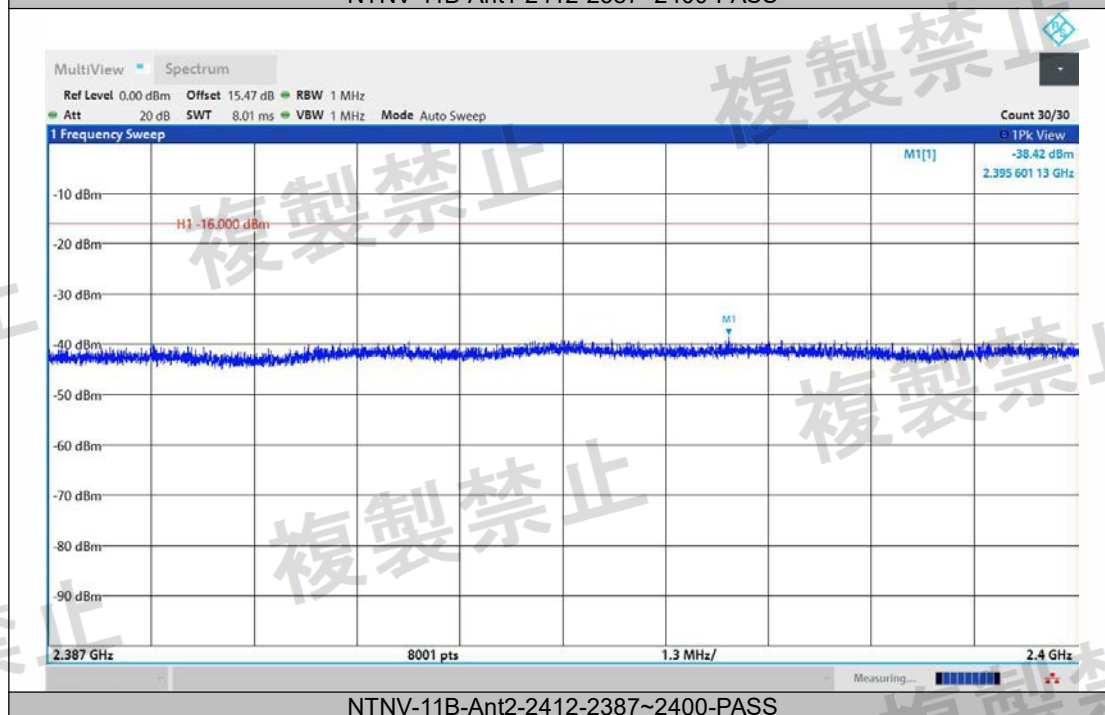
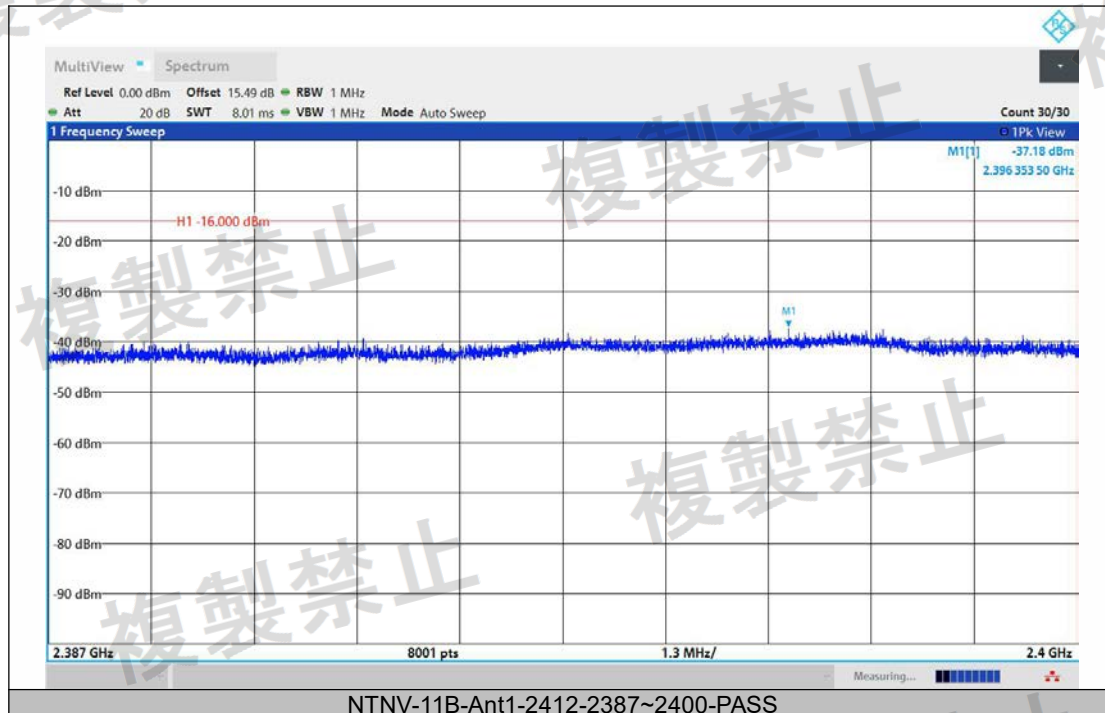
	MO									
NTNV	11AX20MI MO	Ant2	2442	2483.5~2496.5	2487.76	-37.83	≤-16	0.16482	≤25	PASS
NTNV	11AX20MI MO	Ant1	2442	2496.5~13000	7421.31	-37.46	≤-26	0.17947	≤2.5	PASS
NTNV	11AX20MI MO	Ant2	2442	2496.5~13000	7489.59	-38.67	≤-26	0.13583	≤2.5	PASS
NTNV	11AX20MI MO	Ant1	2472	30~2387	30.59	-41.58	≤-26	0.06950	≤2.5	PASS
NTNV	11AX20MI MO	Ant2	2472	30~2387	34.71	-38.64	≤-26	0.13677	≤2.5	PASS
NTNV	11AX20MI MO	Ant1	2472	2387~2400	2394.77	-37.69	≤-16	0.17022	≤25	PASS
NTNV	11AX20MI MO	Ant2	2472	2387~2400	2392.09	-37.82	≤-16	0.16520	≤25	PASS
NTNV	11AX20MI MO	Ant1	2472	2483.5~2496.5	2483.56	-15.95	≤-16	25.4097 3	≤25	See table below
NTNV	11AX20MI MO	Ant2	2472	2483.5~2496.5	2483.6	-15.72	≤-16	26.7916 8	≤25	See table below
NTNV	11AX20MI MO	Ant1	2472	2496.5~13000	7396.10	-38.68	≤-26	0.13552	≤2.5	PASS
NTNV	11AX20MI MO	Ant2	2472	2496.5~13000	7394.53	-38.53	≤-26	0.14028	≤2.5	PASS
NTNV	11AX40MI MO	Ant1	2422	30~2387	2385.23	-36.68	≤-26	0.21478	≤2.5	PASS
NTNV	11AX40MI MO	Ant2	2422	30~2387	2385.53	-36.29	≤-26	0.23496	≤2.5	PASS
NTNV	11AX40MI MO	Ant1	2422	2387~2400	2399.75	-24.04	≤-16	3.94457	≤25	PASS
NTNV	11AX40MI MO	Ant2	2422	2387~2400	2390.98	-27.97	≤-16	1.59588	≤25	PASS
NTNV	11AX40MI MO	Ant1	2422	2483.5~2496.5	2484.72	-37.28	≤-16	0.18707	≤25	PASS
NTNV	11AX40MI MO	Ant2	2422	2483.5~2496.5	2484.98	-37.07	≤-16	0.19634	≤25	PASS
NTNV	11AX40MI MO	Ant1	2422	2496.5~13000	7377.20	-38.11	≤-26	0.15453	≤2.5	PASS
NTNV	11AX40MI MO	Ant2	2422	2496.5~13000	7423.41	-38.41	≤-26	0.14421	≤2.5	PASS
NTNV	11AX40MI MO	Ant1	2442	30~2387	2385.53	-40.33	≤-26	0.09268	≤2.5	PASS
NTNV	11AX40MI MO	Ant2	2442	30~2387	2383.46	-39.71	≤-26	0.10691	≤2.5	PASS
NTNV	11AX40MI MO	Ant1	2442	2387~2400	2399.16	-31.75	≤-16	0.66834	≤25	PASS
NTNV	11AX40MI MO	Ant2	2442	2387~2400	2396.46	-35.50	≤-16	0.28184	≤25	PASS
NTNV	11AX40MI MO	Ant1	2442	2483.5~2496.5	2488.26	-36.03	≤-16	0.24946	≤25	PASS
NTNV	11AX40MI MO	Ant2	2442	2483.5~2496.5	2487.92	-35.21	≤-16	0.30130	≤25	PASS
NTNV	11AX40MI MO	Ant1	2442	2496.5~13000	7459.13	-38.15	≤-26	0.15311	≤2.5	PASS
NTNV	11AX40MI MO	Ant2	2442	2496.5~13000	7486.44	-37.98	≤-26	0.15922	≤2.5	PASS
NTNV	11AX40MI MO	Ant1	2462	30~2387	34.71	-39.51	≤-26	0.11194	≤2.5	PASS
NTNV	11AX40MI MO	Ant2	2462	30~2387	2386.12	-40.65	≤-26	0.08610	≤2.5	PASS
NTNV	11AX40MI MO	Ant1	2462	2387~2400	2395.29	-36.50	≤-16	0.22387	≤25	PASS
NTNV	11AX40MI MO	Ant2	2462	2387~2400	2394.43	-37.18	≤-16	0.19143	≤25	PASS
NTNV	11AX40MI MO	Ant1	2462	2483.5~2496.5	2483.56	-27.44	≤-16	1.80302	≤25	PASS
NTNV	11AX40MI MO	Ant2	2462	2483.5~2496.5	2483.53	-25.45	≤-16	2.85102	≤25	PASS
NTNV	11AX40MI	Ant1	2462	2496.5~13000	7478.56	-38.64	≤-26	0.13677	≤2.5	PASS

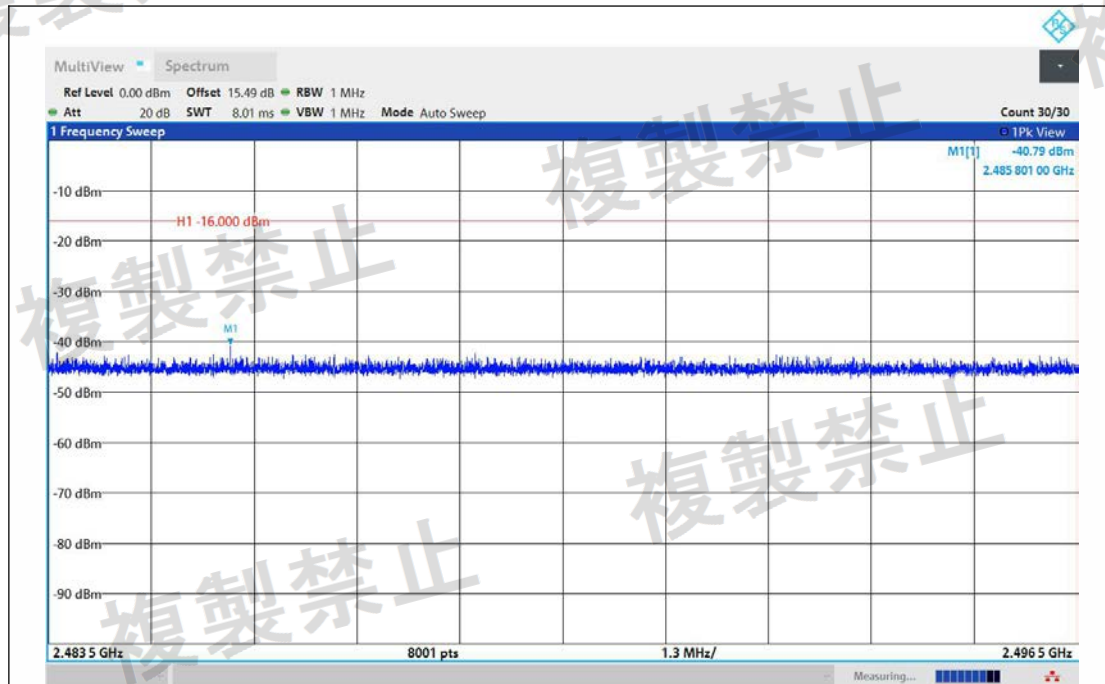
	MO									
NTNV	11AX40MI MO	Ant2	2462	2496.5~13000	7466.48	-38.21	≤-26	0.15101	≤2.5	PASS

Step2

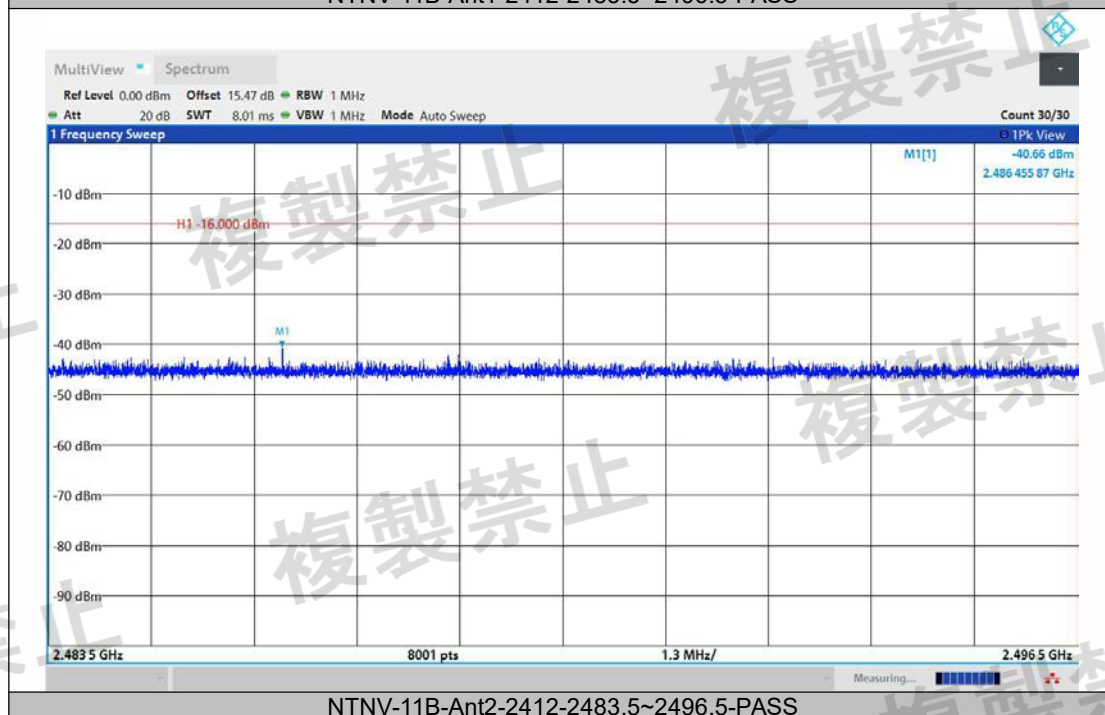
TestCondition	TestMode	Antenna	Frequency[MHz]	Freq. [MHz]	Result [dBm]	Gain [dBi]	EIRP Result [dBm]	Result [μW]	Limit [μW]	Verdict
NTNV	11G	Ant1	2412	2383.81	-52.51	0	-52.51	0.00561	≤2.5	PASS
NTNV	11G	Ant2	2412	2386.76	-51.74	0	-51.74	0.00670	≤2.5	PASS
NTNV	11G	Ant1	2472	2484.06	-41.96	0	-41.96	0.06368	≤25	PASS
NTNV	11G	Ant2	2472	2483.50	-37.81	0	-37.81	0.16558	≤25	PASS
NTNV	11N20MIMO	Ant1	2472	2483.51	-38.81	0	-38.81	0.13152	≤25	PASS
NTNV	11N20MIMO	Ant2	2472	2483.50	-38.67	0	-38.67	0.13583	≤25	PASS
NTNV	11N20MIMO	Ant1	2472	2483.51	-39.44	0	-39.44	0.11376	≤25	PASS
NTNV	11N20MIMO	Ant2	2472	2483.50	-38.60	0	-38.60	0.13804	≤25	PASS
NTNV	11N20MIMO	Ant1	2472	2483.51	---	---	---	0.24528	≤25	PASS
NTNV	11N20MIMO	Ant2	2472	2483.50	---	---	---	0.27387	≤25	PASS
NTNV	11AX20MIMO	Ant1	2412	2399.44	-49.47	0	-49.47	0.01130	≤25	PASS
NTNV	11AX20MIMO	Ant1	2412	2399.44	-49.69	0	-49.69	0.01074	≤25	PASS
NTNV	11AX20MIMO	Ant1	2412	2399.44	---	---	---	0.02204	≤25	PASS
NTNV	11AX20MIMO	Ant1	2472	2483.53	-47.47	0	-47.47	0.01791	≤25	PASS
NTNV	11AX20MIMO	Ant2	2472	2483.54	-47.60	0	-47.60	0.01738	≤25	PASS
NTNV	11AX20MIMO	Ant1	2472	2483.53	-47.66	0	-47.66	0.01714	≤25	PASS
NTNV	11AX20MIMO	Ant2	2472	2483.54	-41.19	0	-41.19	0.07603	≤25	PASS
NTNV	11AX20MIMO	Ant1	2472	2483.53	---	---	---	0.03505	≤25	PASS
NTNV	11AX20MIMO	Ant2	2472	2483.54	---	---	---	0.09341	≤25	PASS



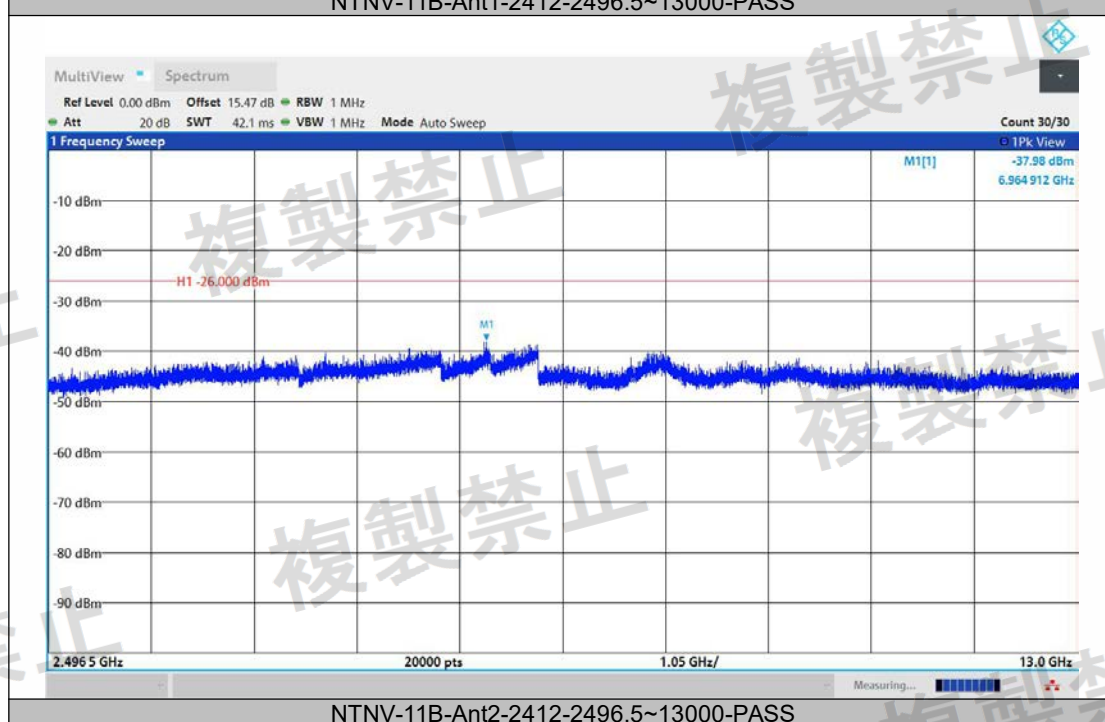
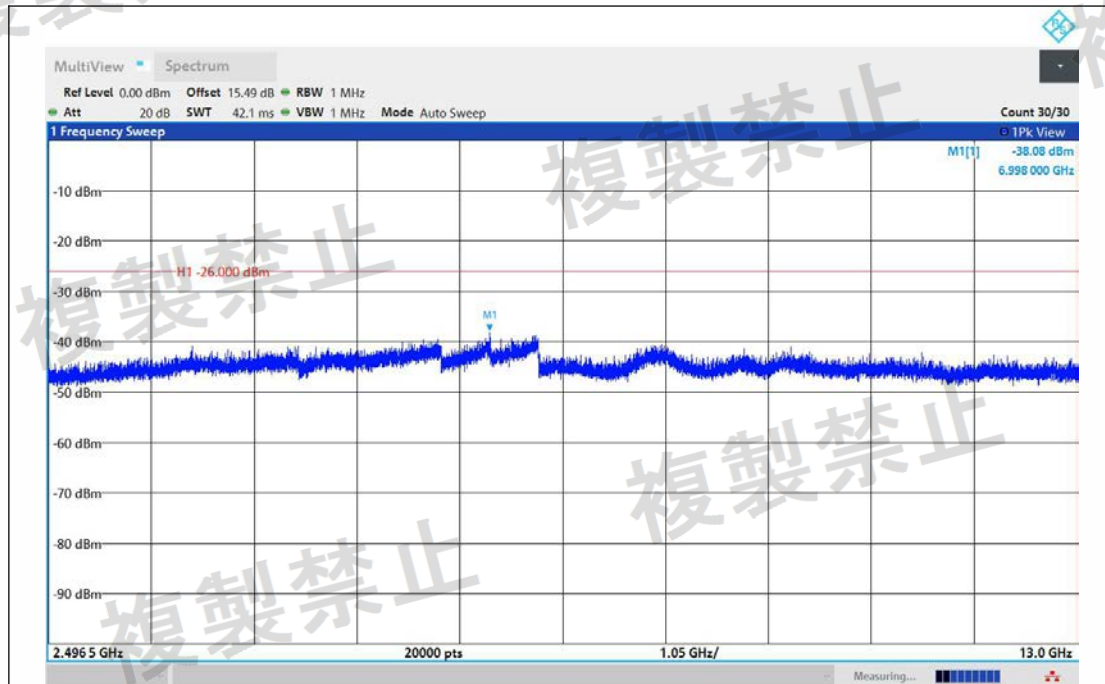


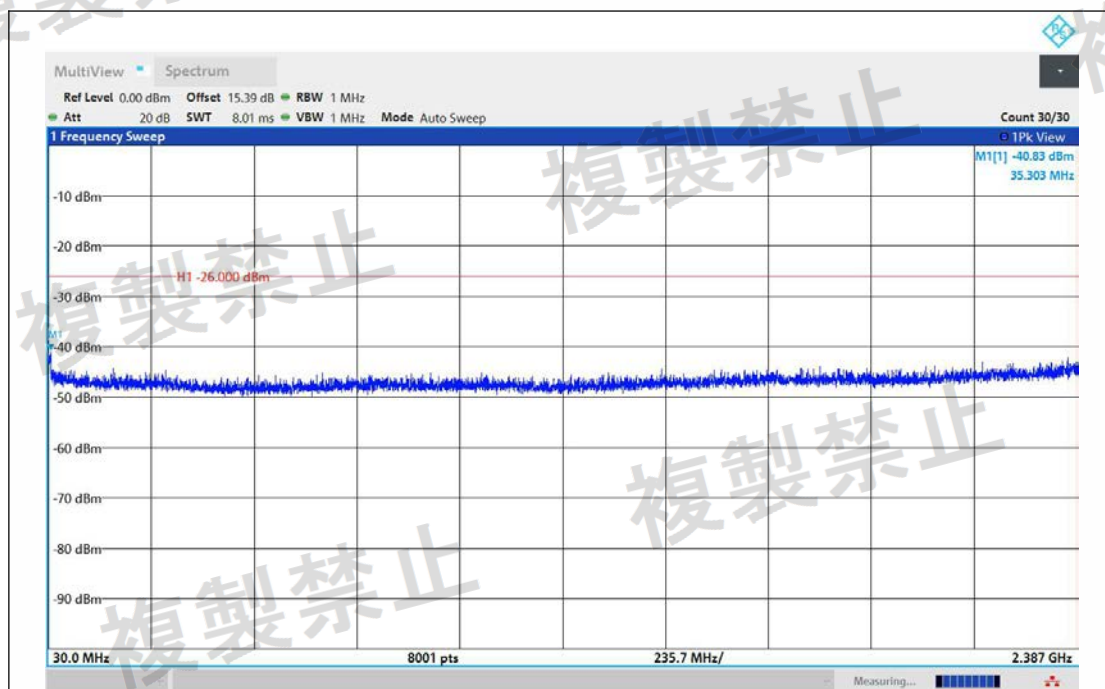


NTNV-11B-Ant1-2412-2483.5~2496.5-PASS

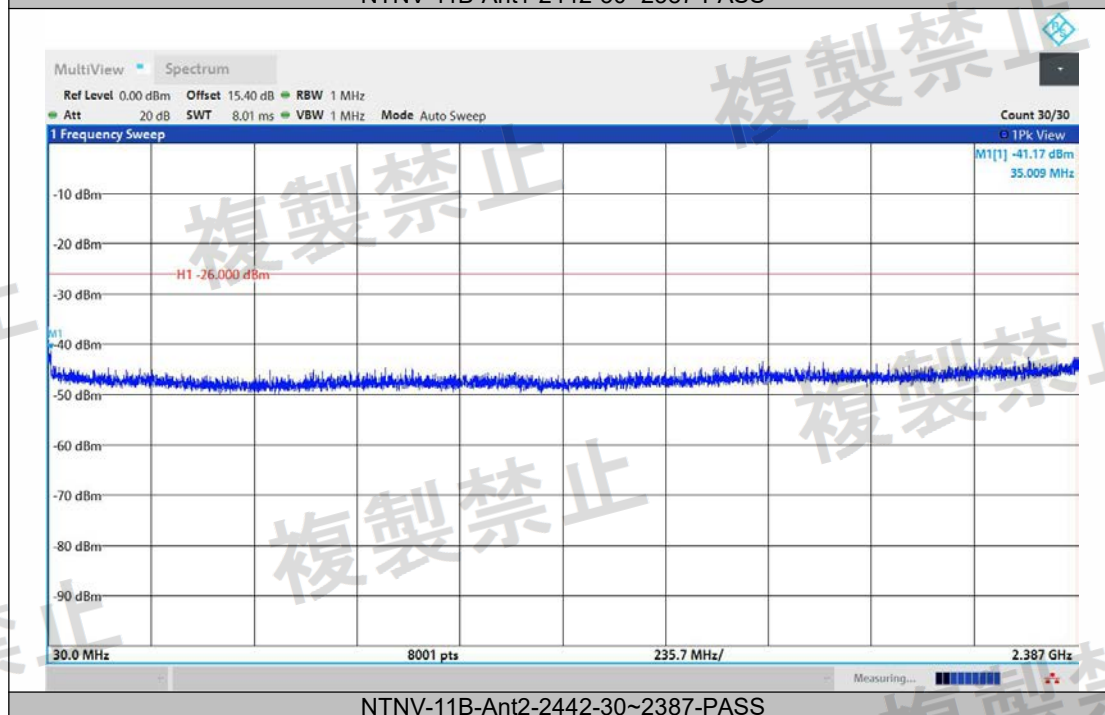


NTNV-11B-Ant2-2412-2483.5~2496.5-PASS

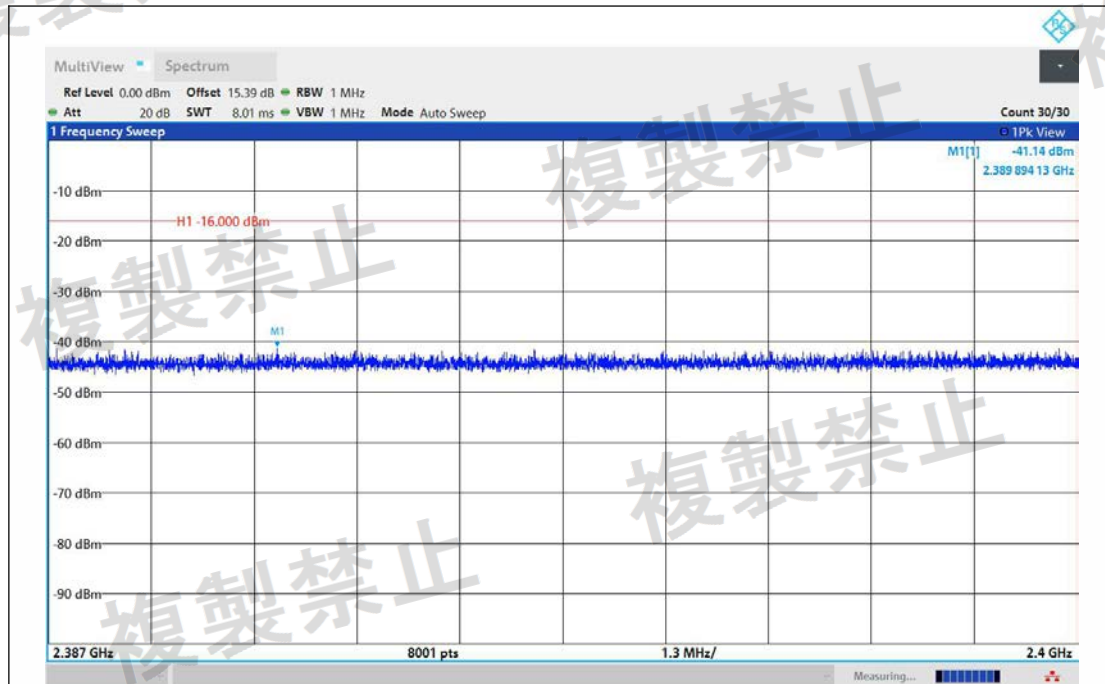




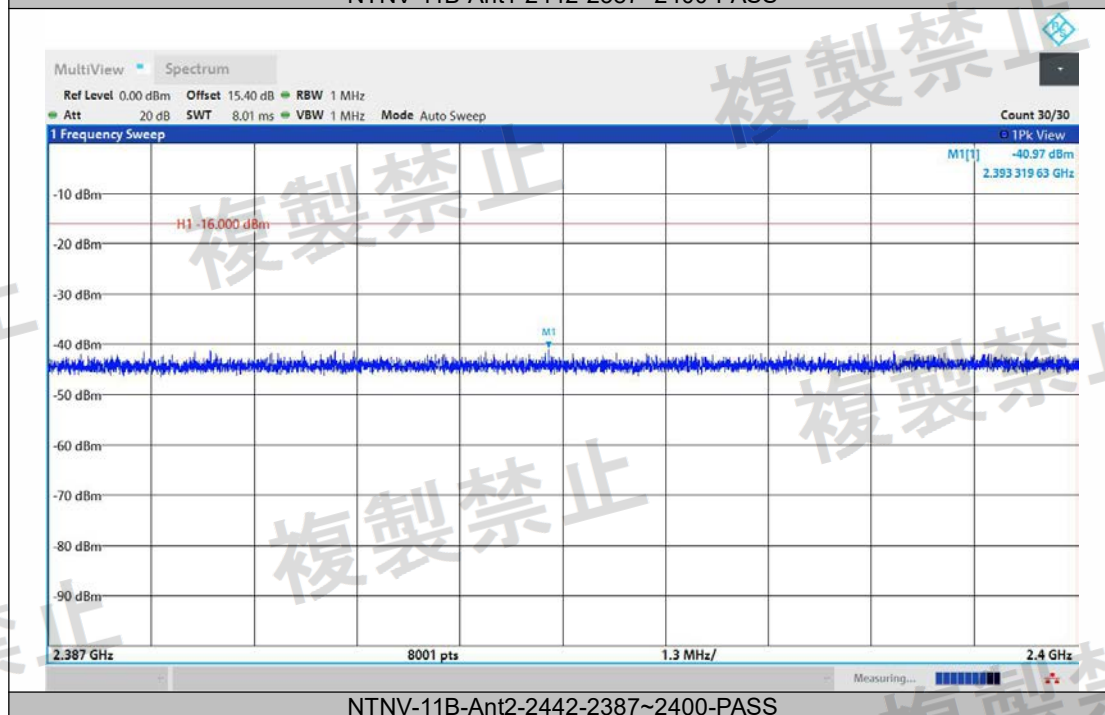
NTNV-11B-Ant1-2442-30~2387-PASS



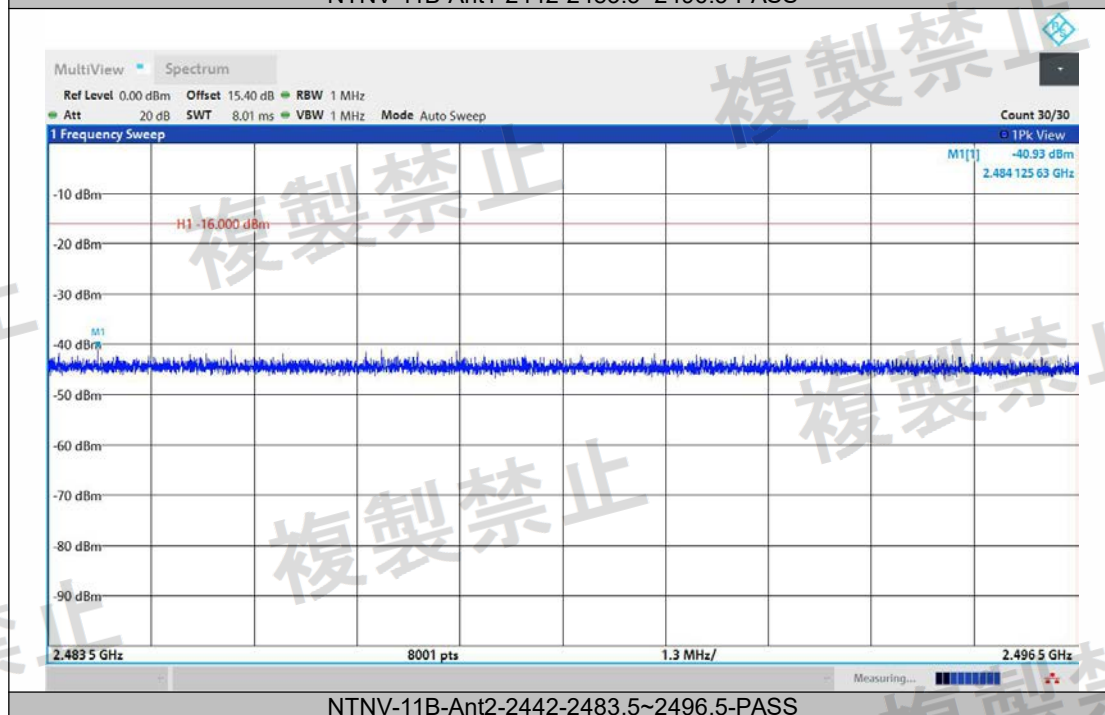
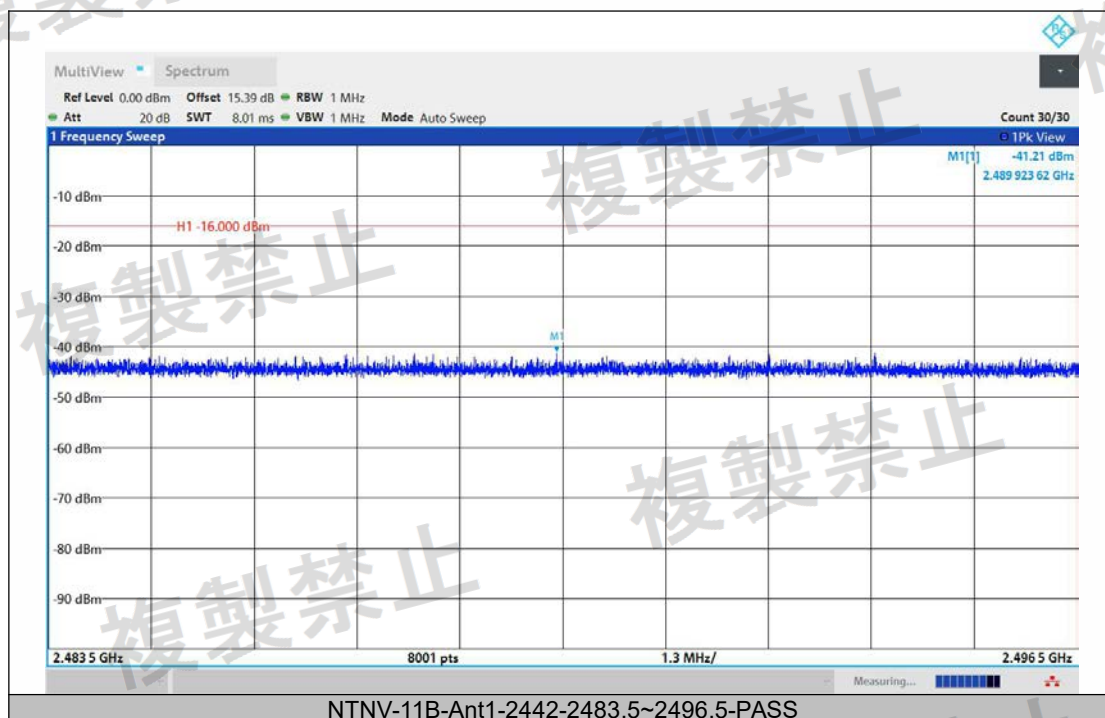
NTNV-11B-Ant2-2442-30~2387-PASS

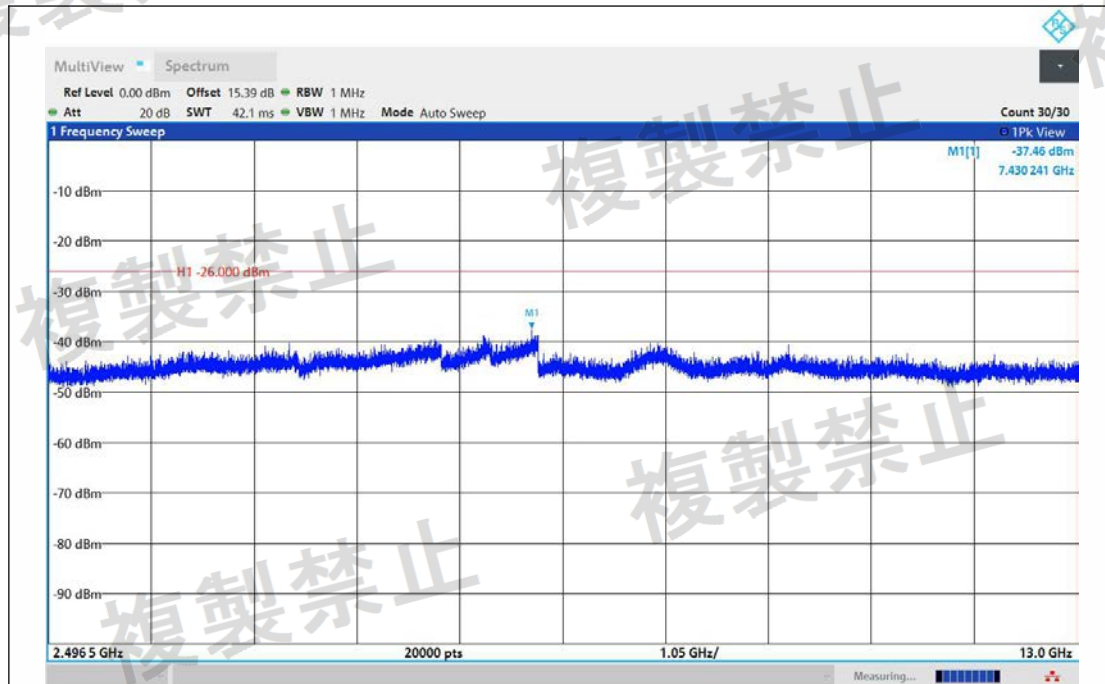


NTNV-11B-Ant1-2442-2387~2400-PASS

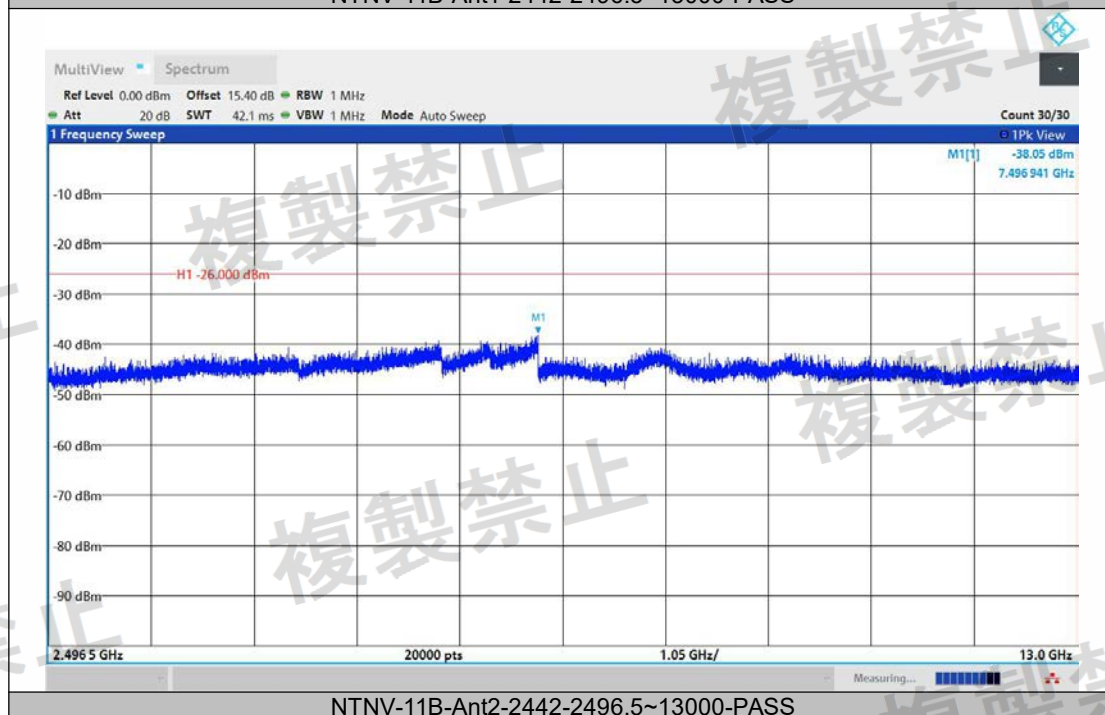


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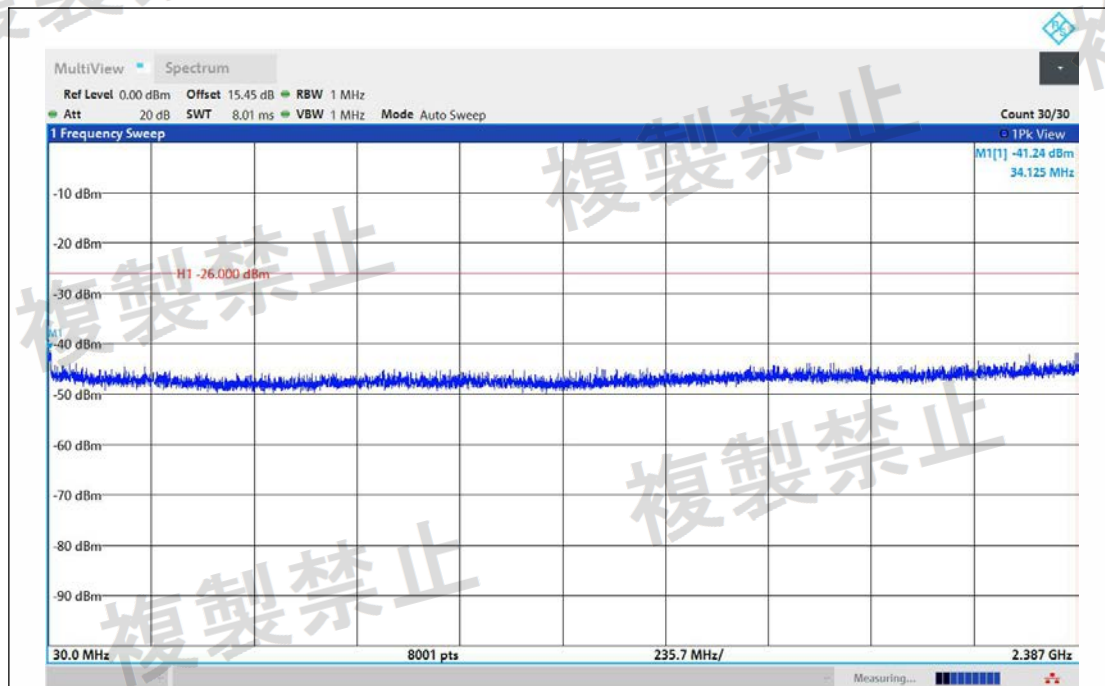




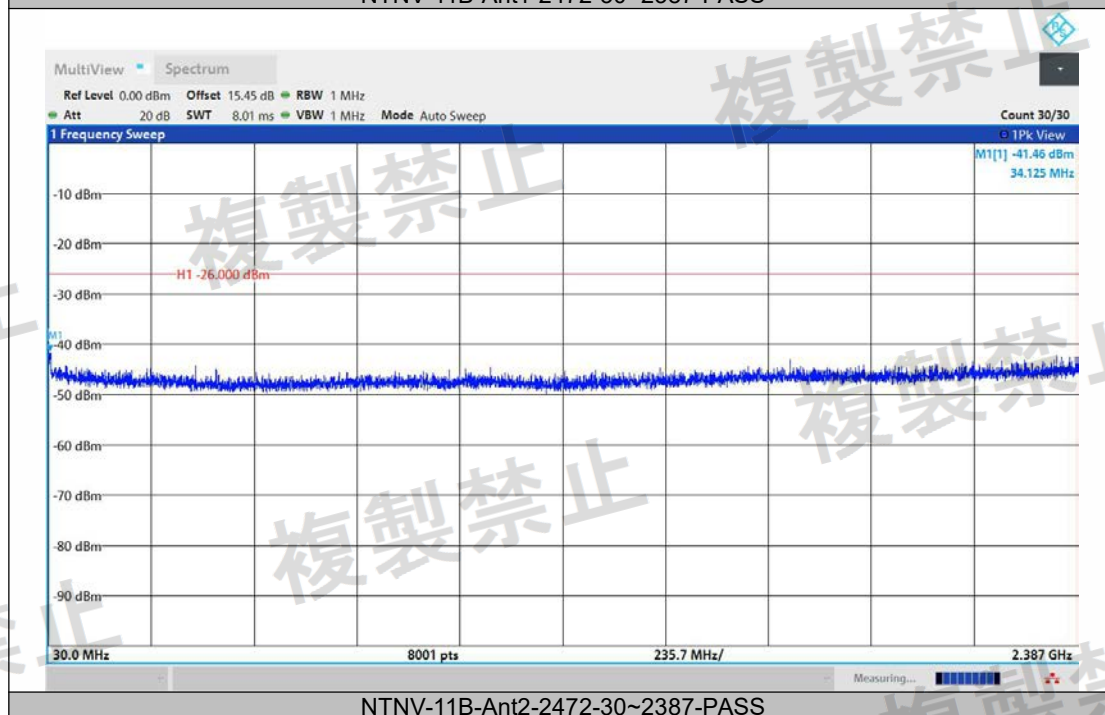
NTNV-11B-Ant1-2442-2496.5~13000-PASS



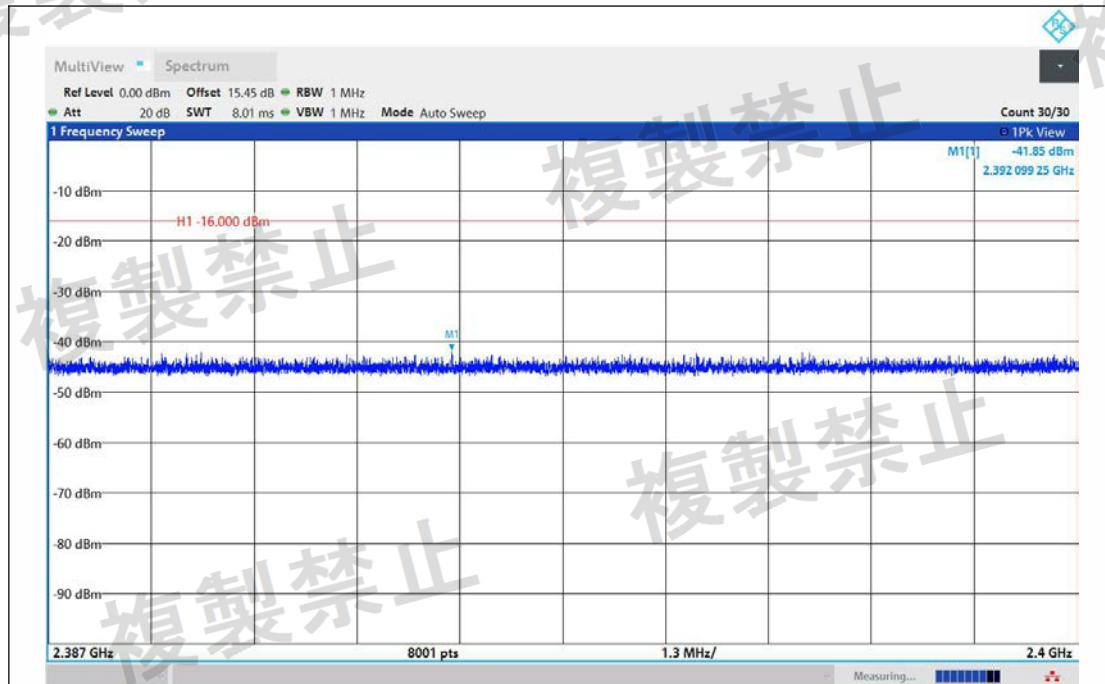
NTNV-11B-Ant2-2442-2496.5~13000-PASS



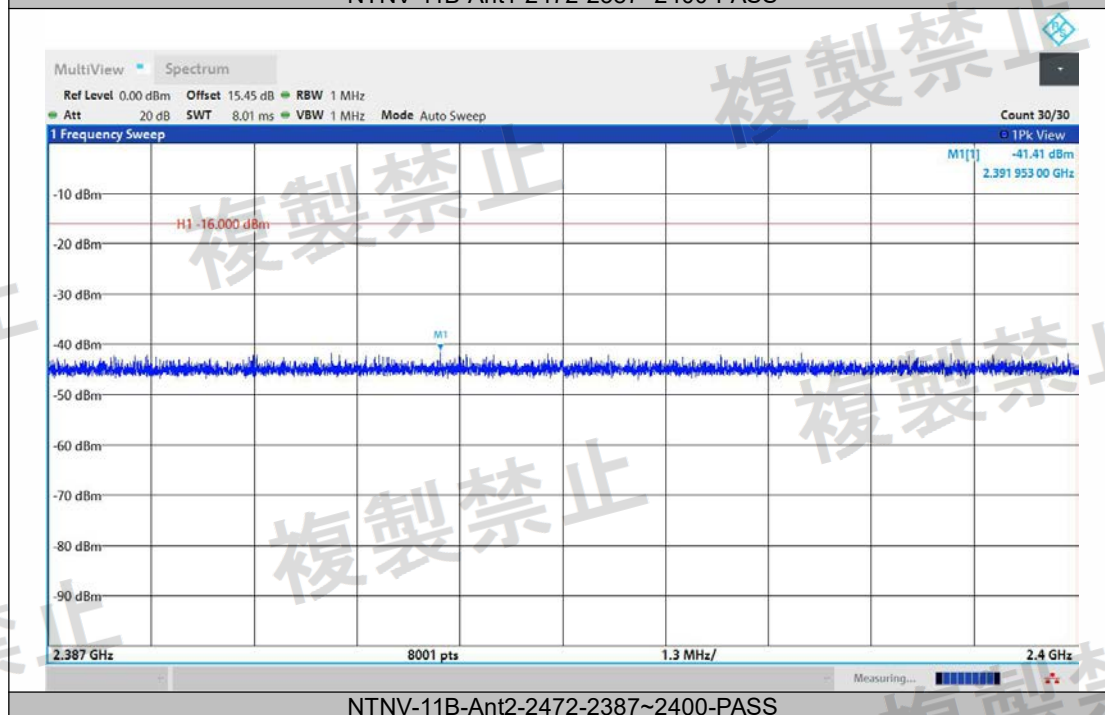
NTNV-11B-Ant1-2472-30~2387-PASS



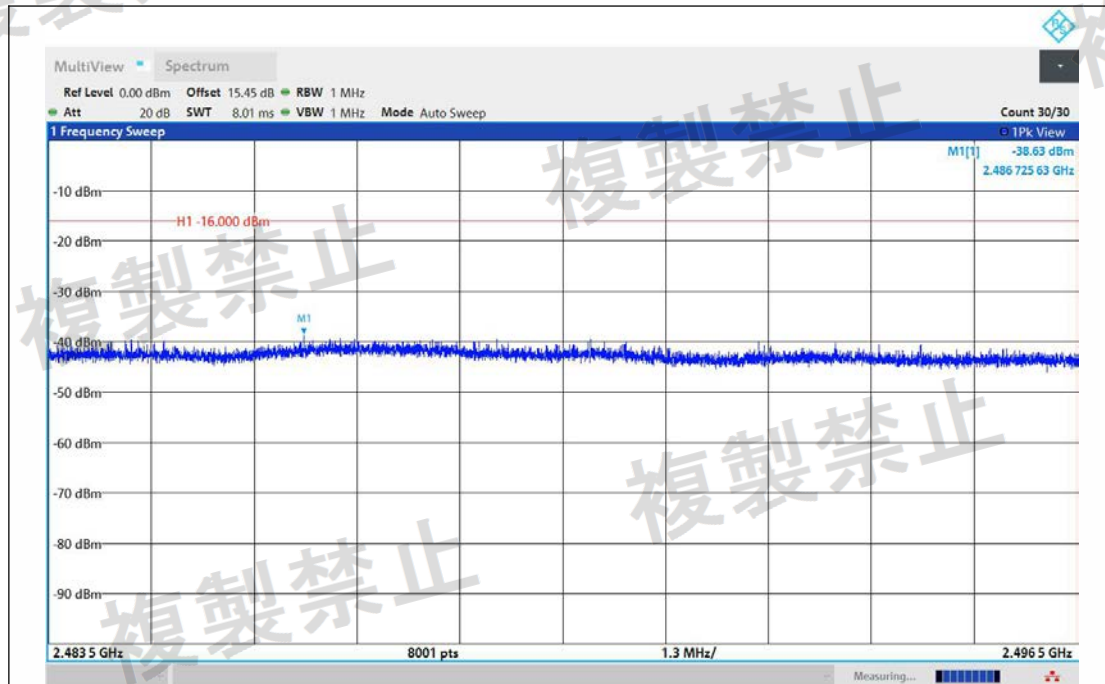
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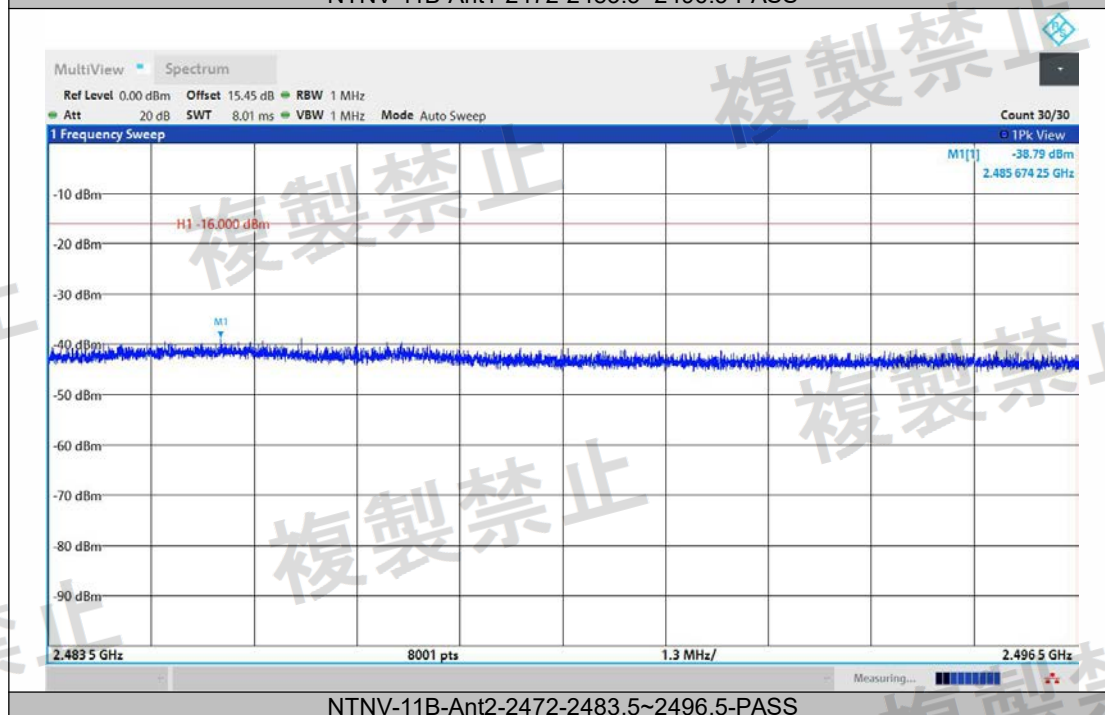
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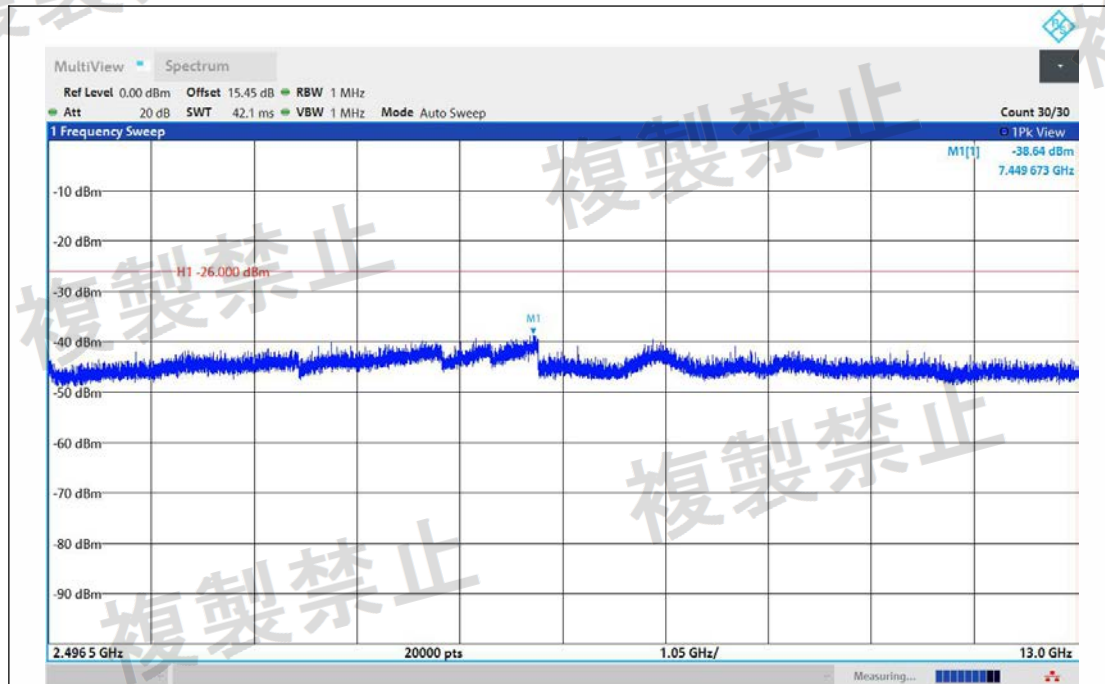
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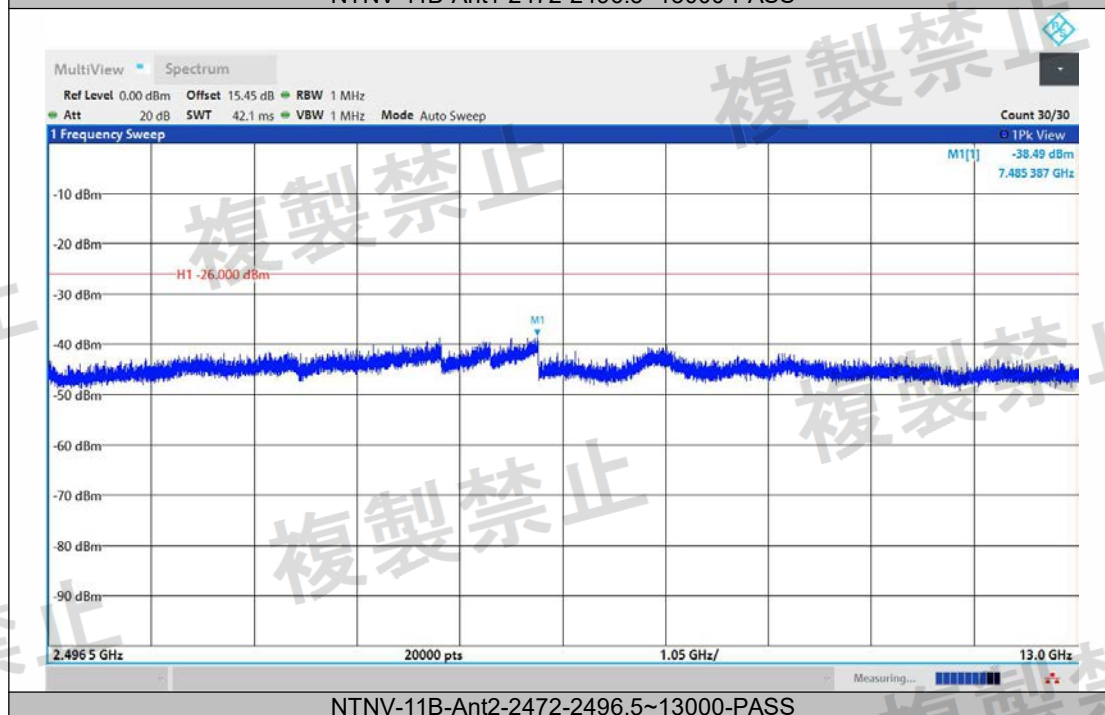
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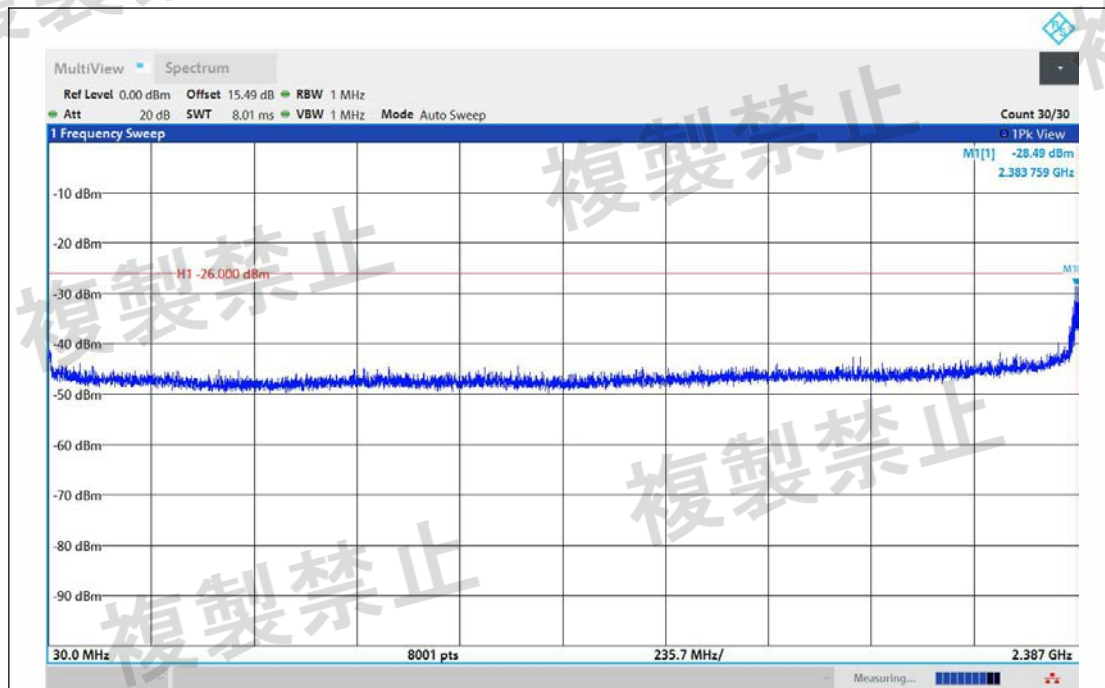
NTNV-11B-Ant2-2472-2483.5~2496.5-PASS



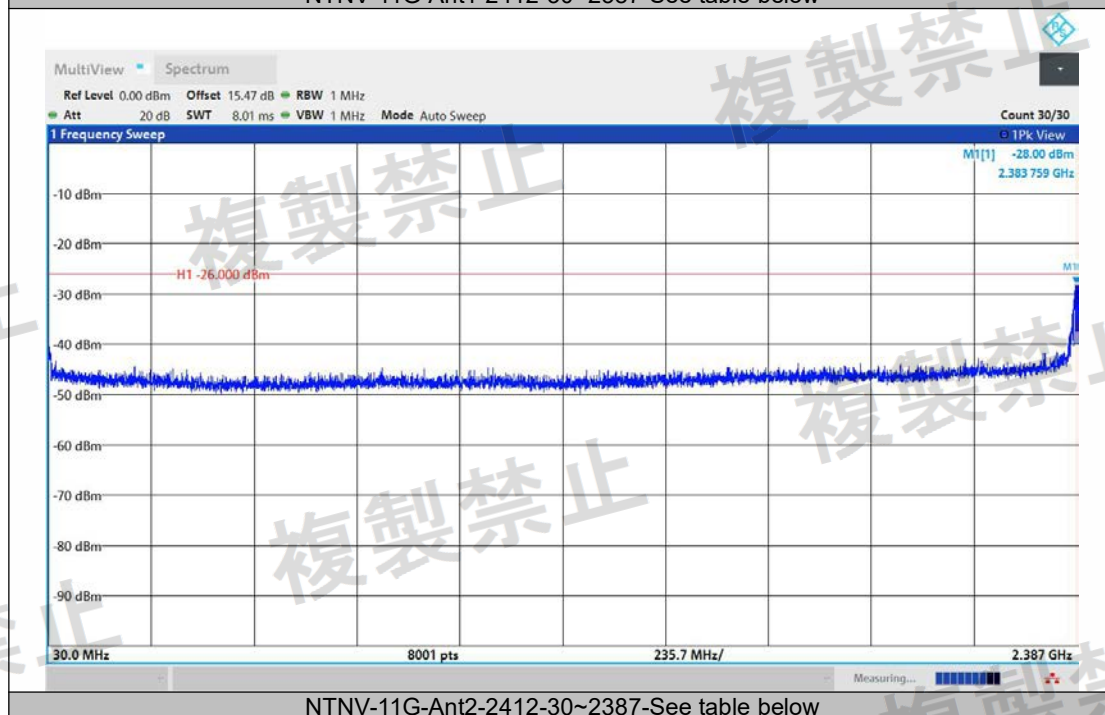
NTNV-11B-Ant1-2472-2496.5~13000-PASS



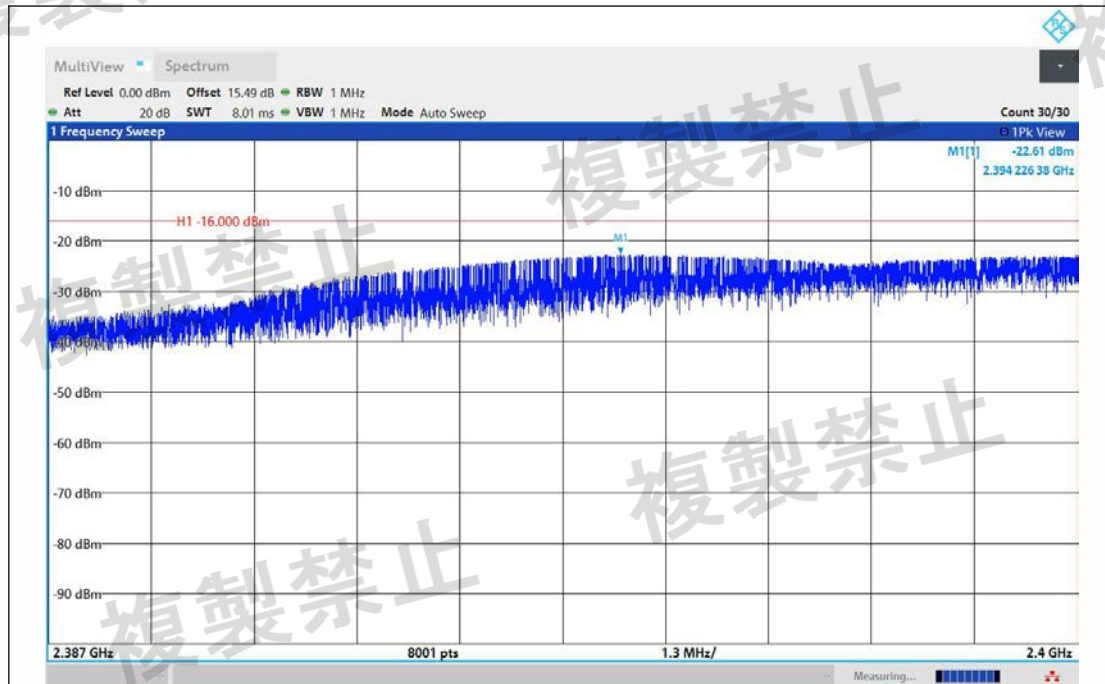
NTNV-11B-Ant2-2472-2496.5~13000-PASS



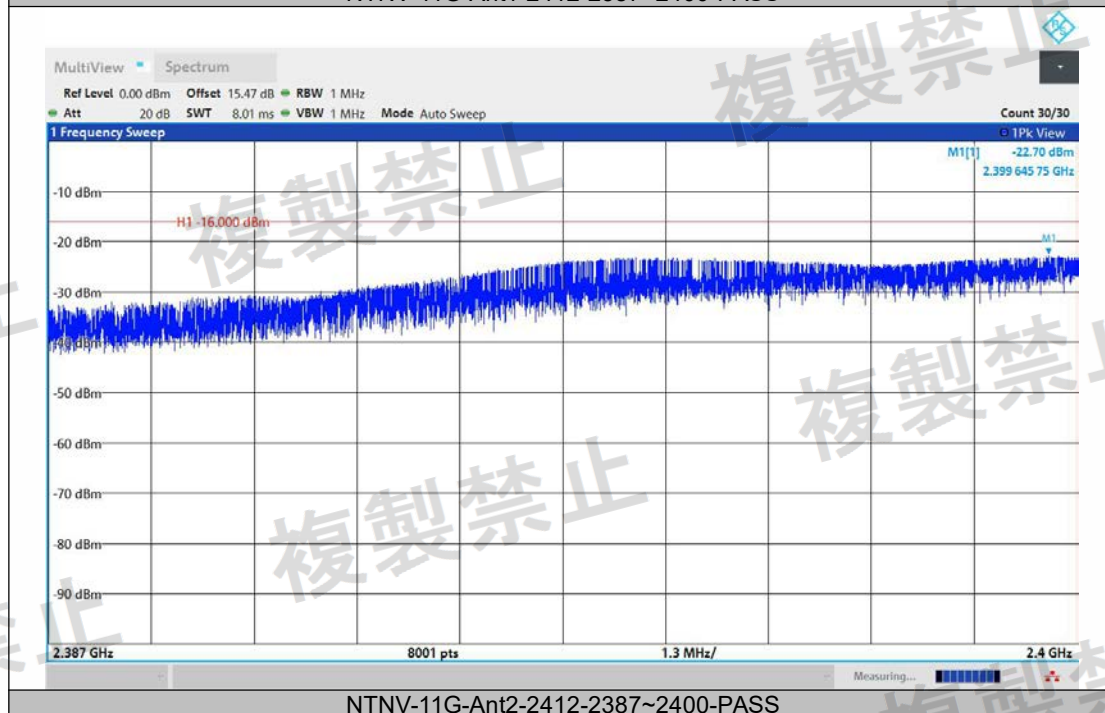
NTNV-11G-Ant1-2412-30~2387-See table below



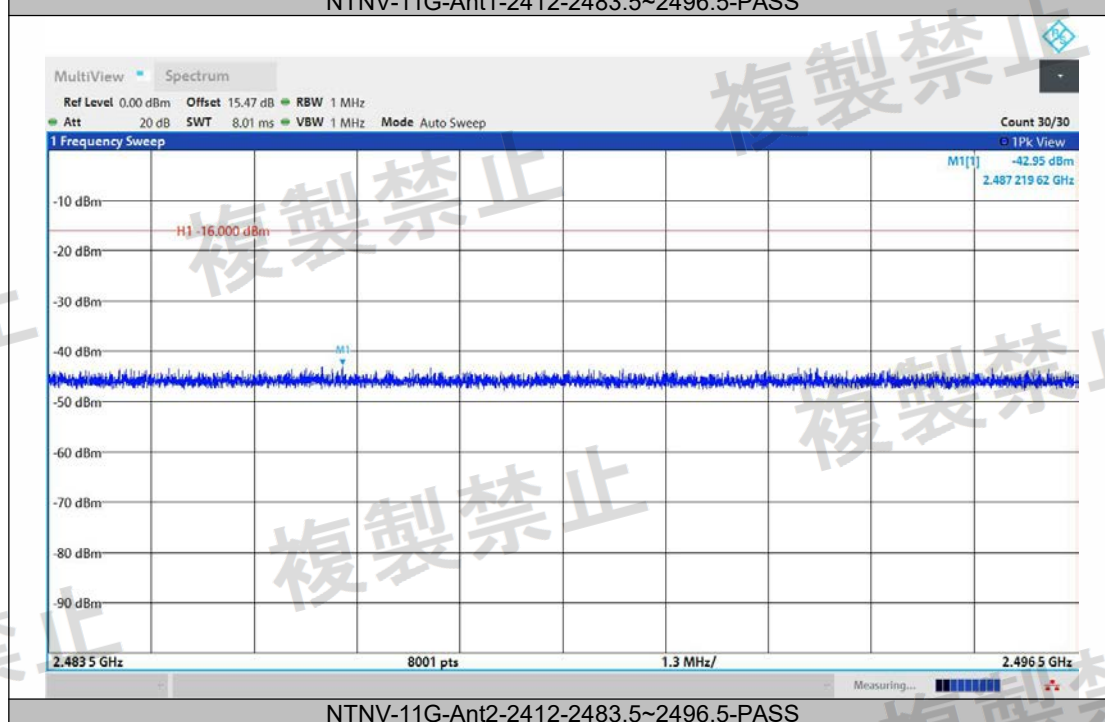
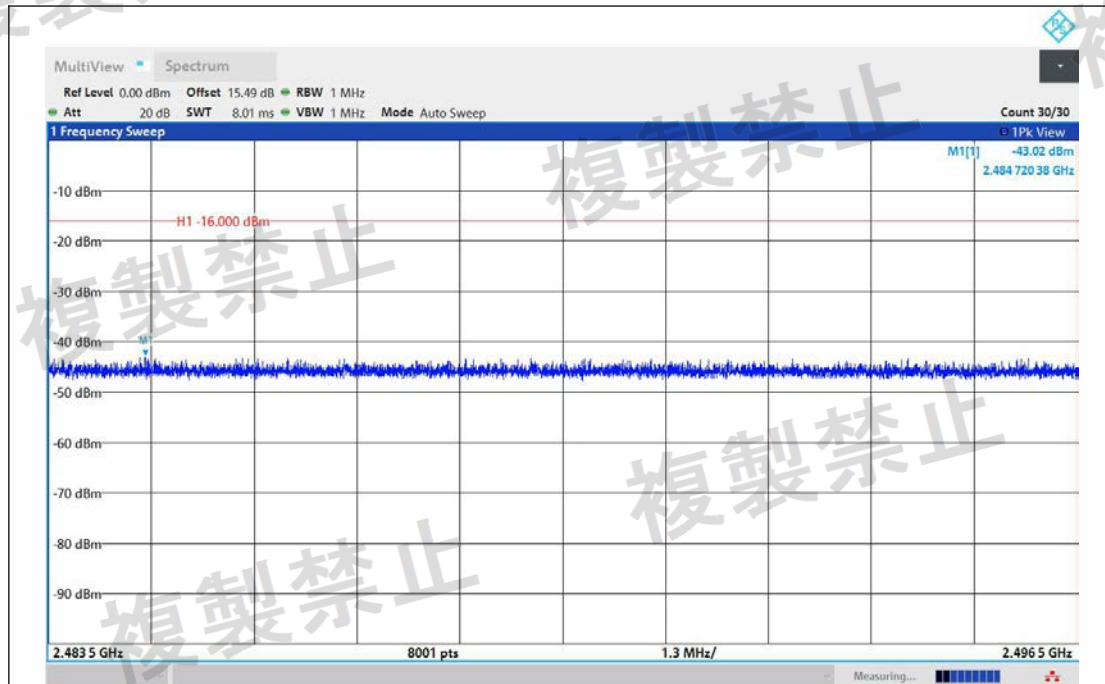
NTNV-11G-Ant2-2412-30~2387-See table below

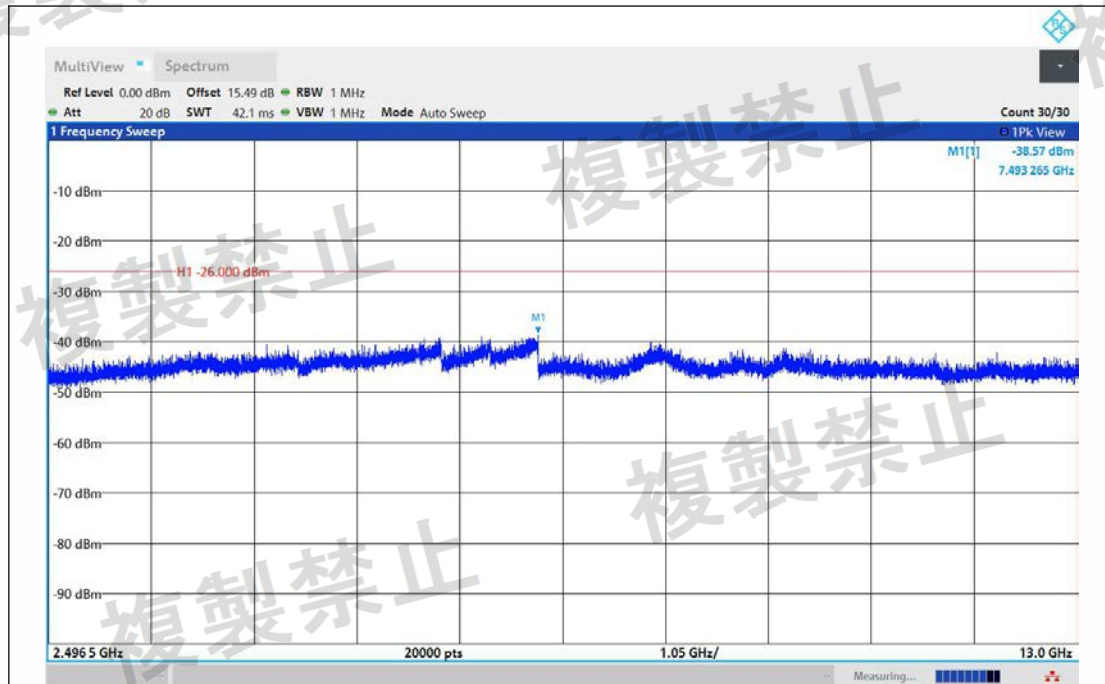


NTNV-11G-Ant1-2412-2387~2400-PASS

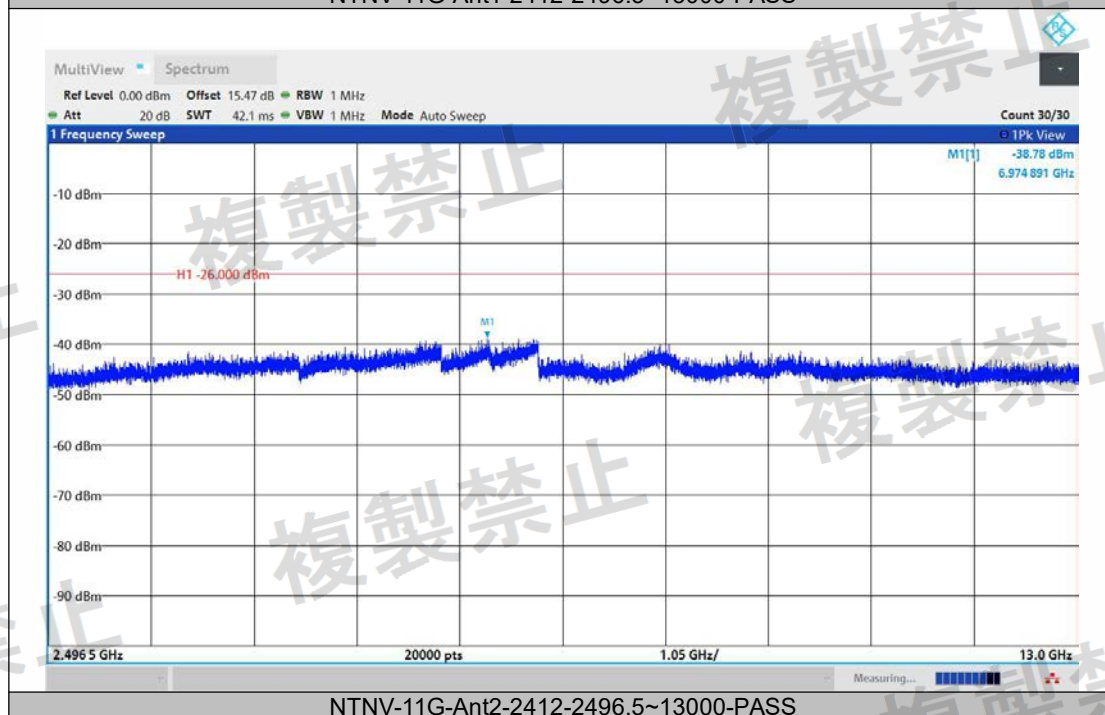


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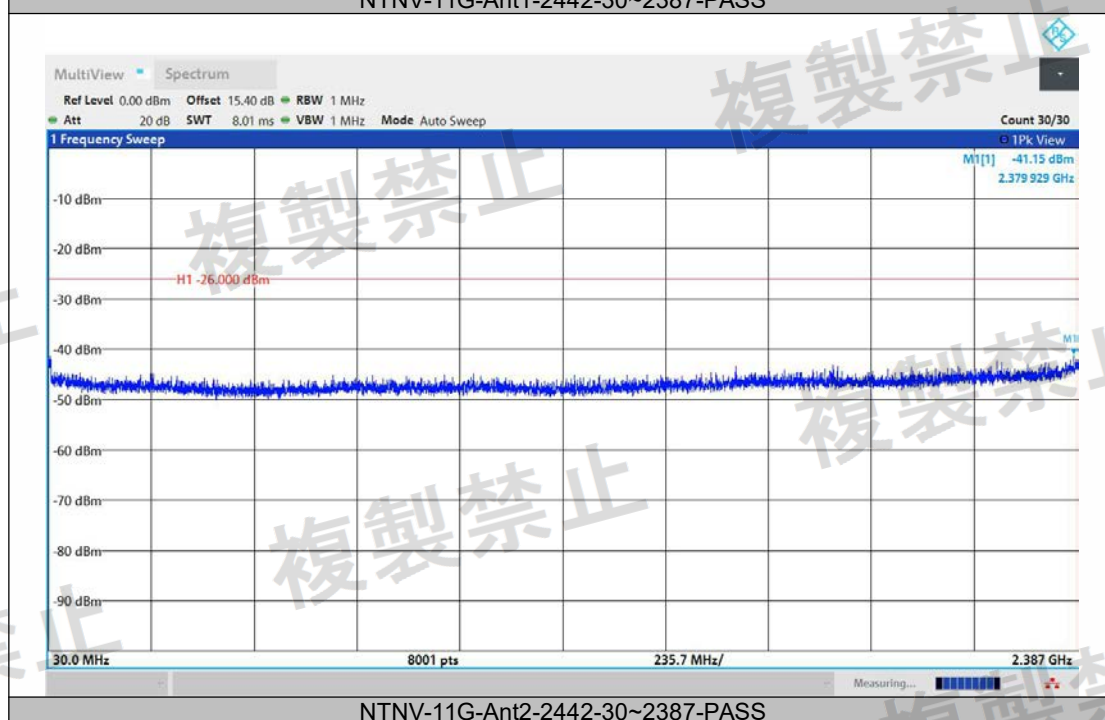
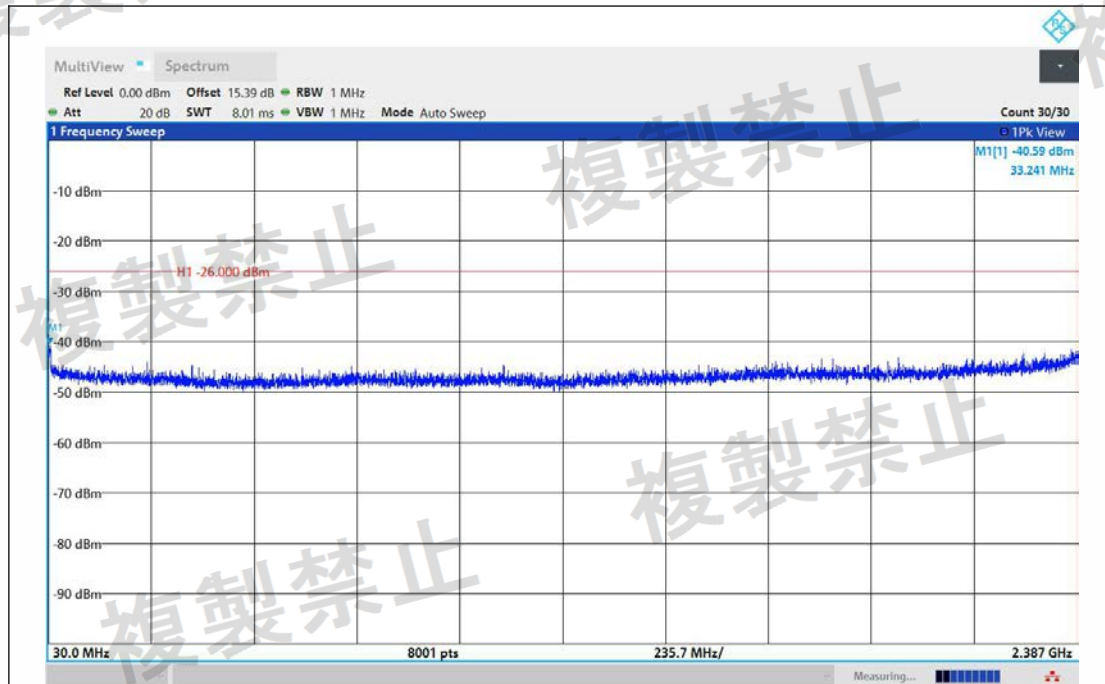


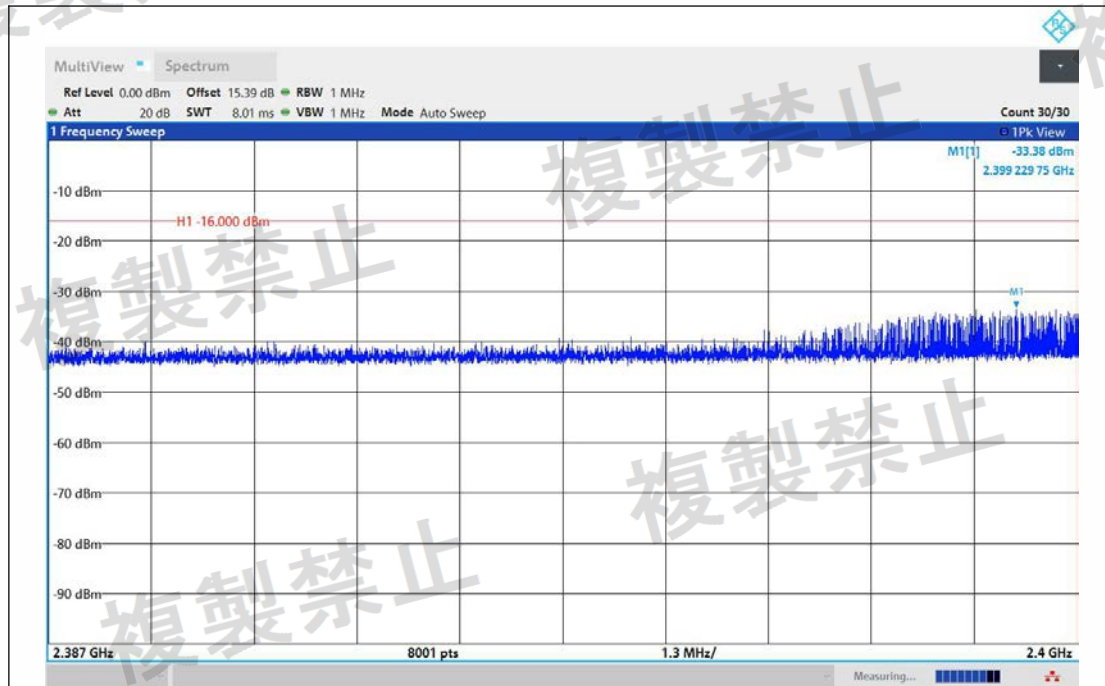


NTNV-11G-Ant1-2412-2496.5~13000-PASS

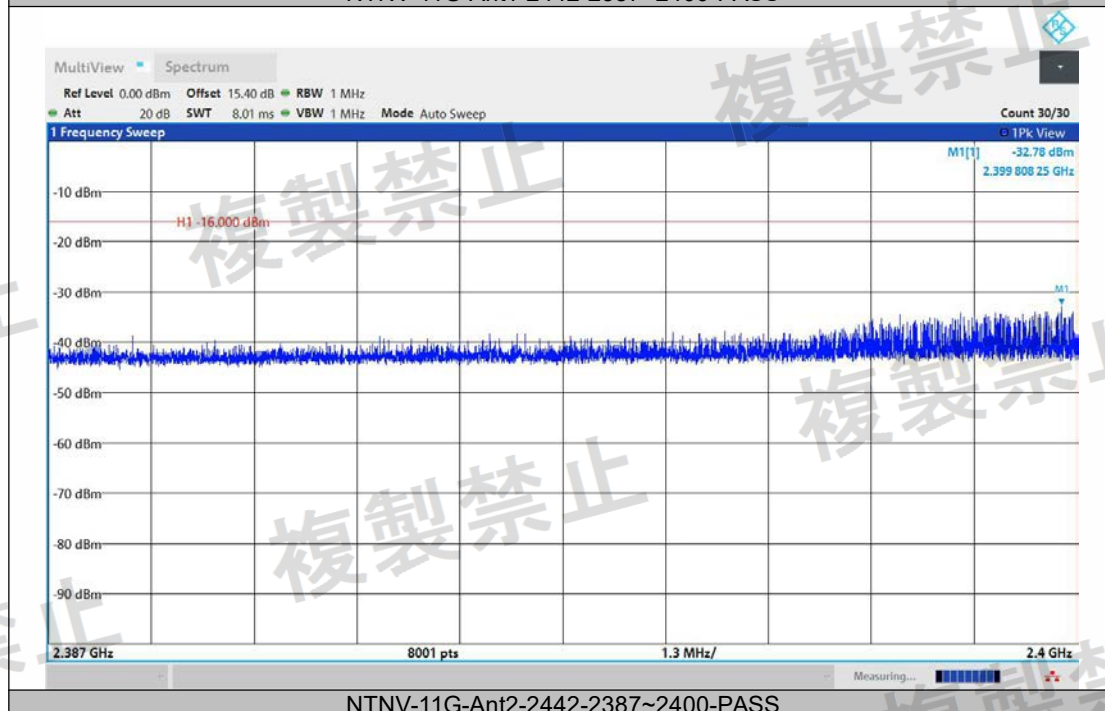


NTNV-11G-Ant2-2412-2496.5~13000-PASS

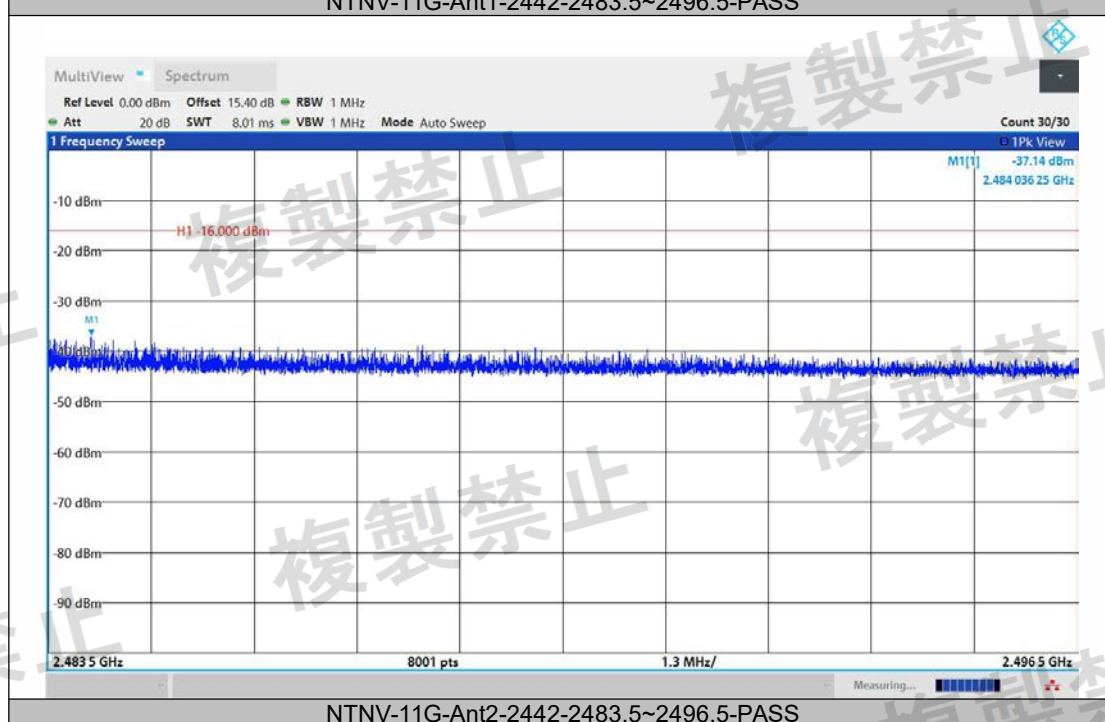
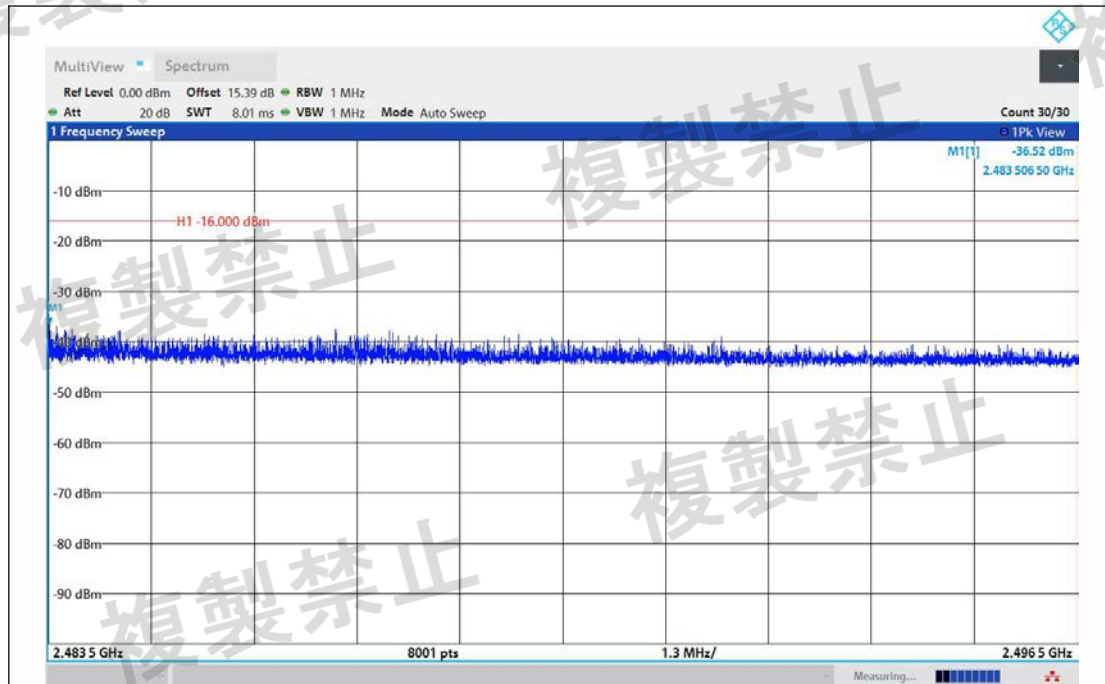


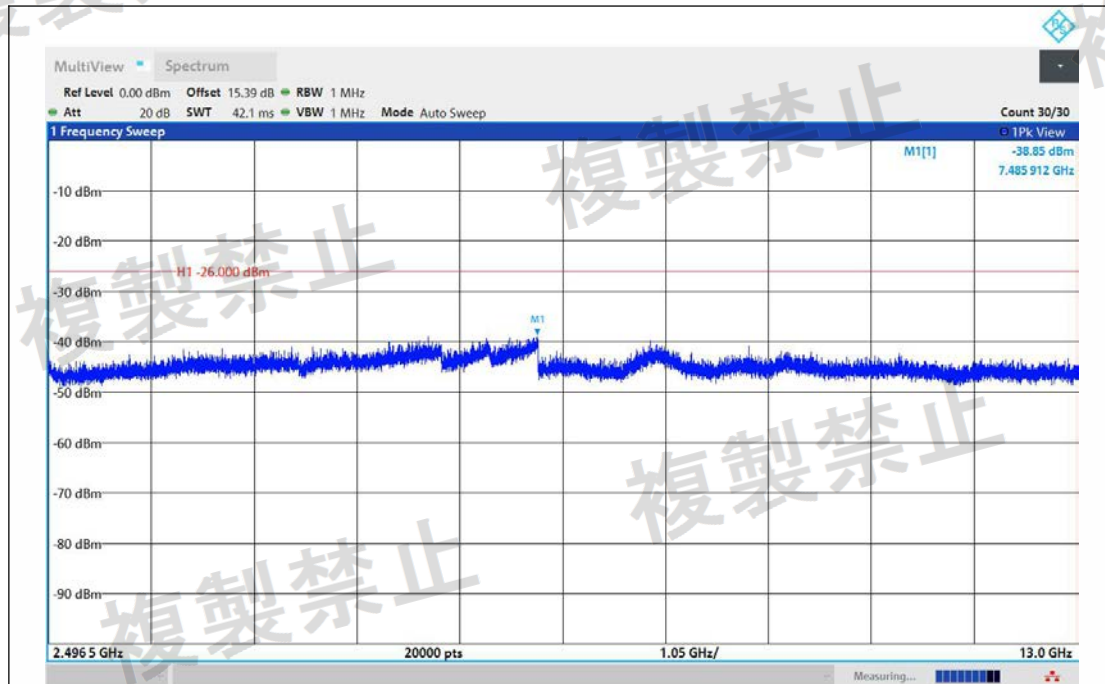


NTNV-11G-Ant1-2442-2387~2400-PASS

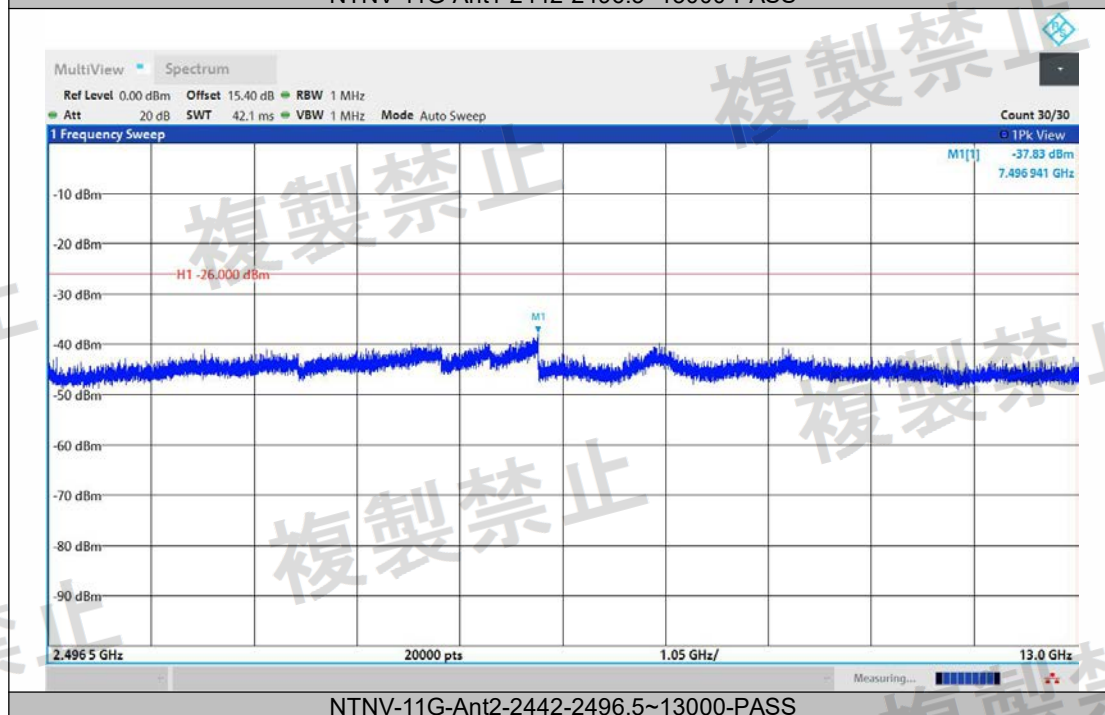


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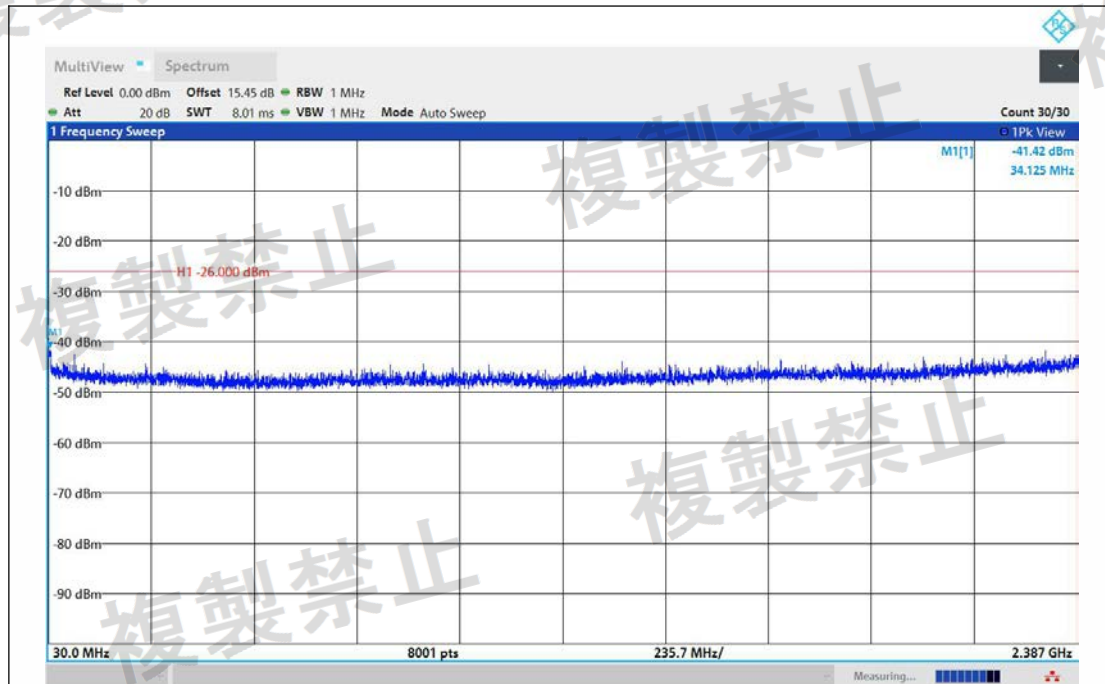




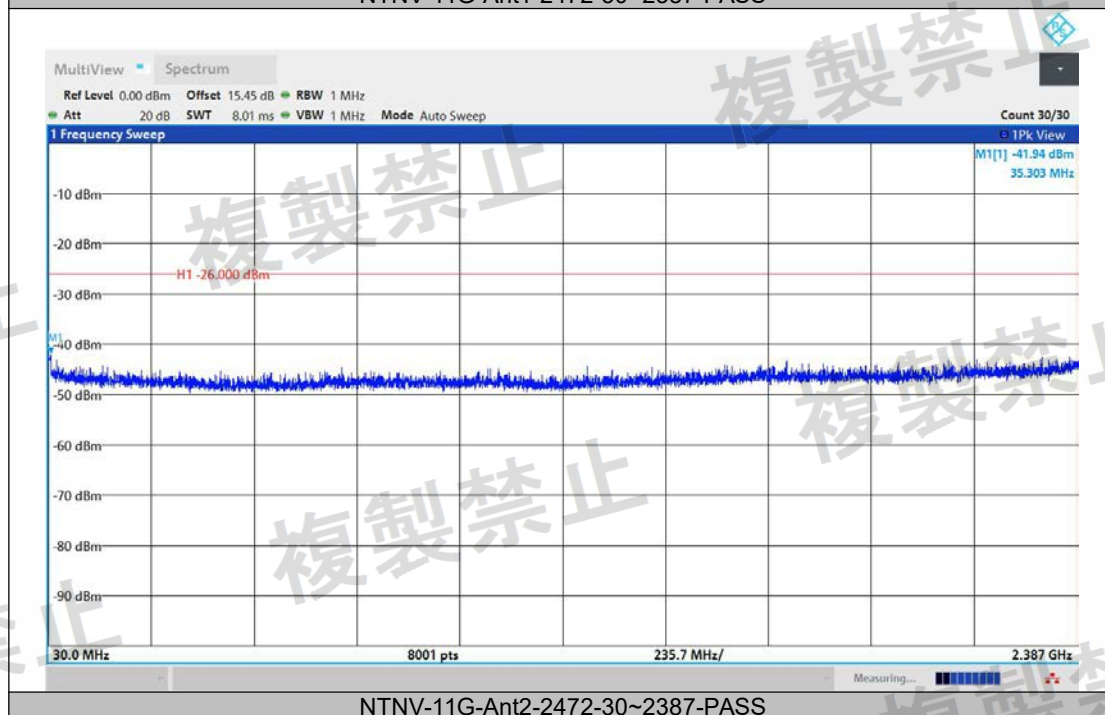
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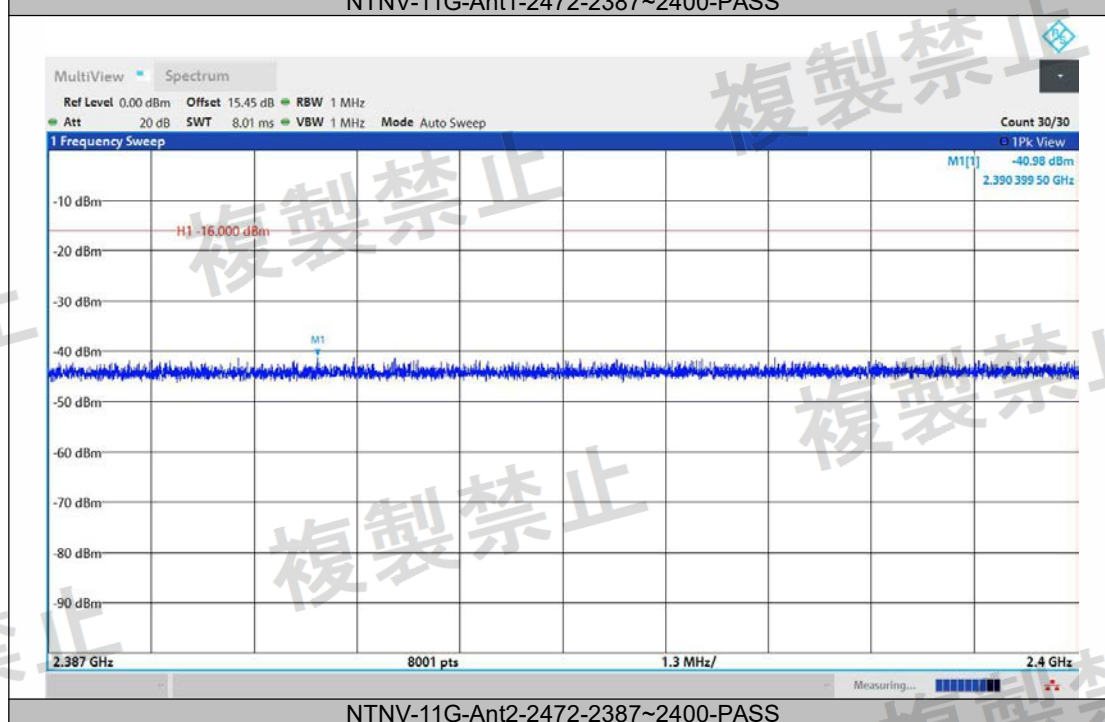
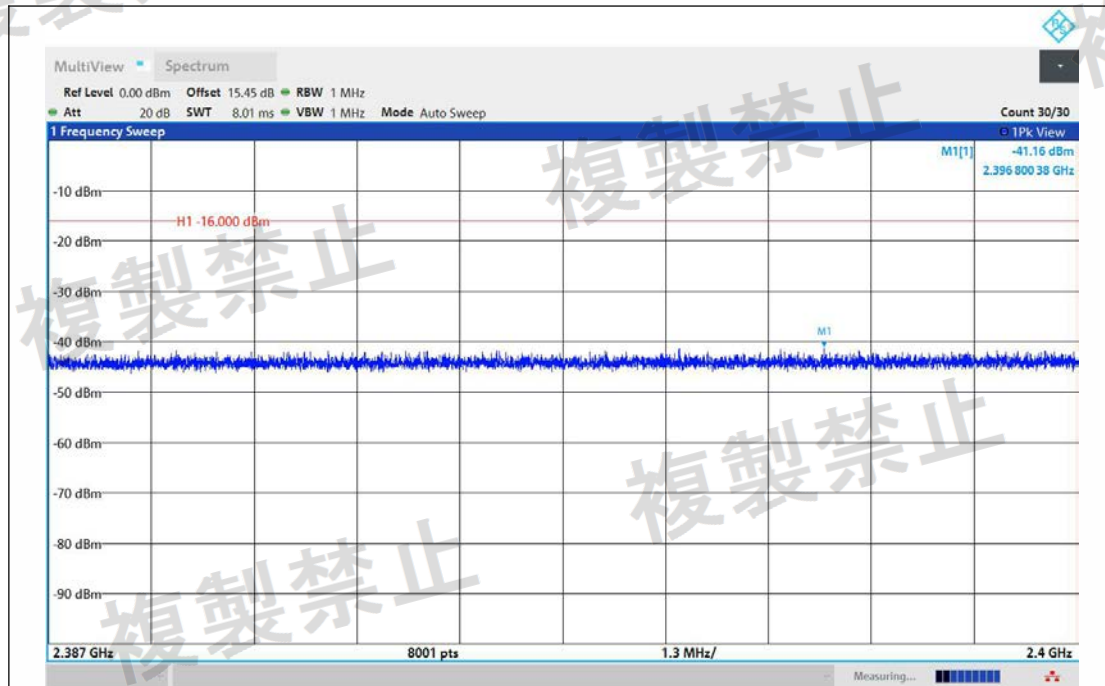
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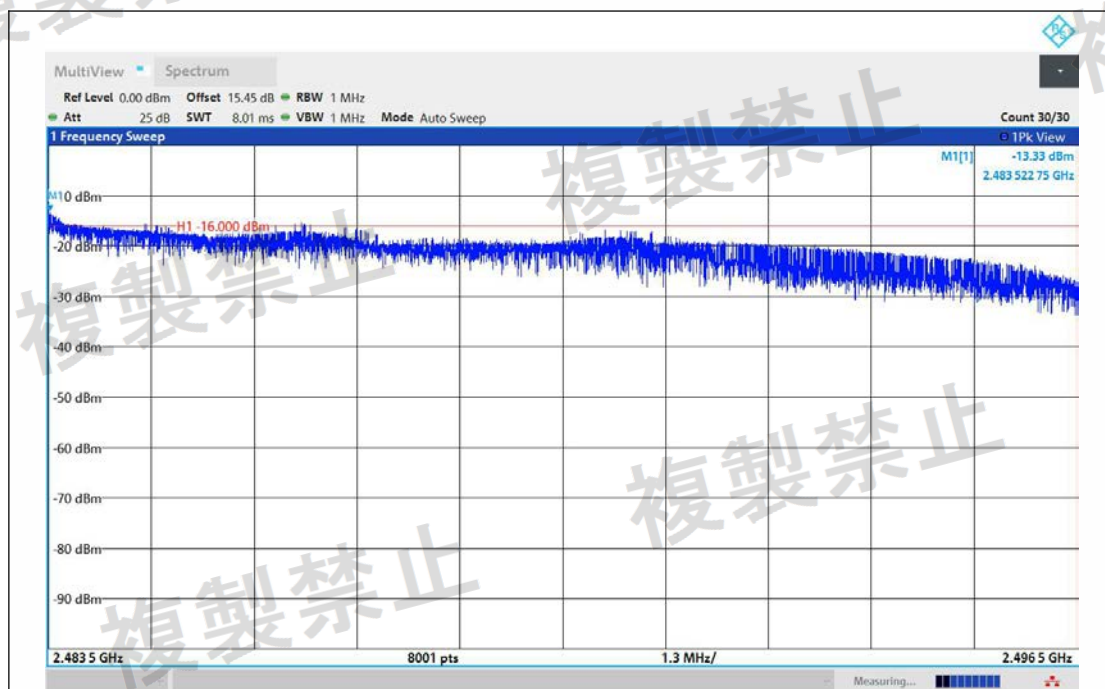


NTNV-11G-Ant1-2472-30~2387-PASS

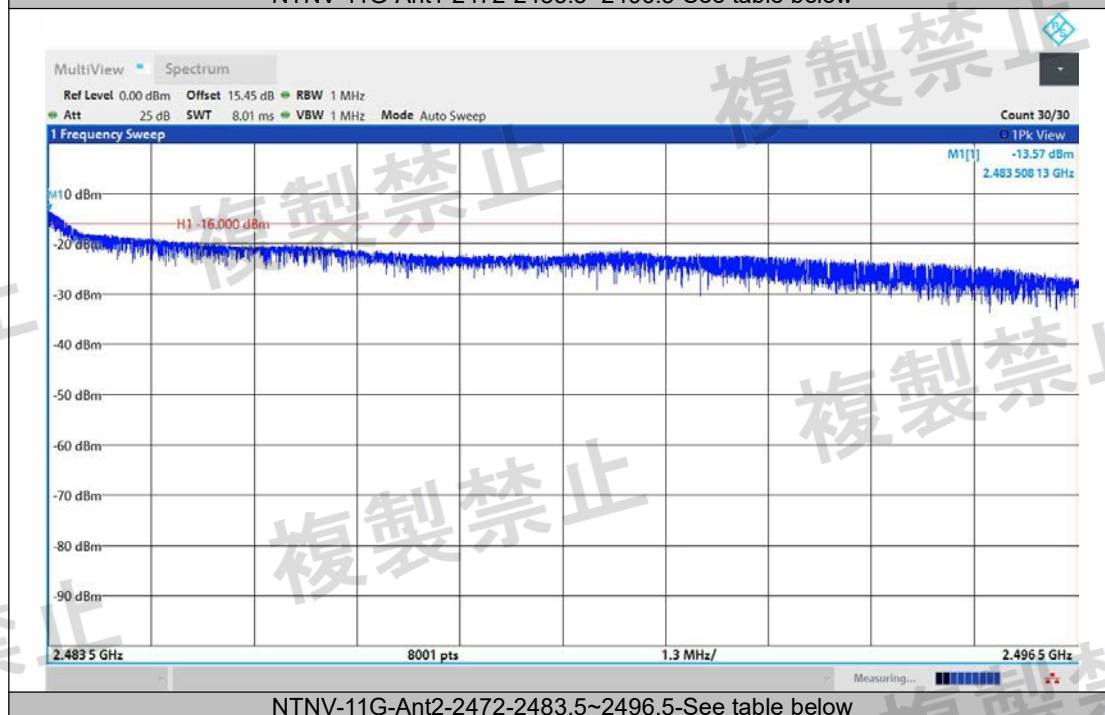


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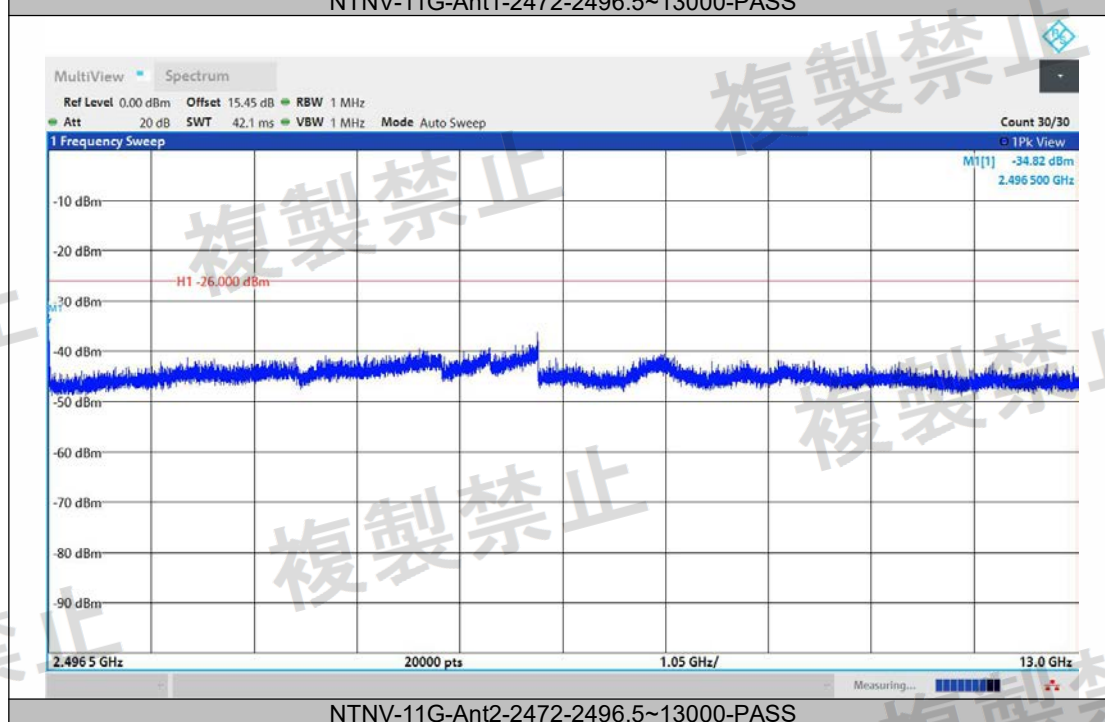
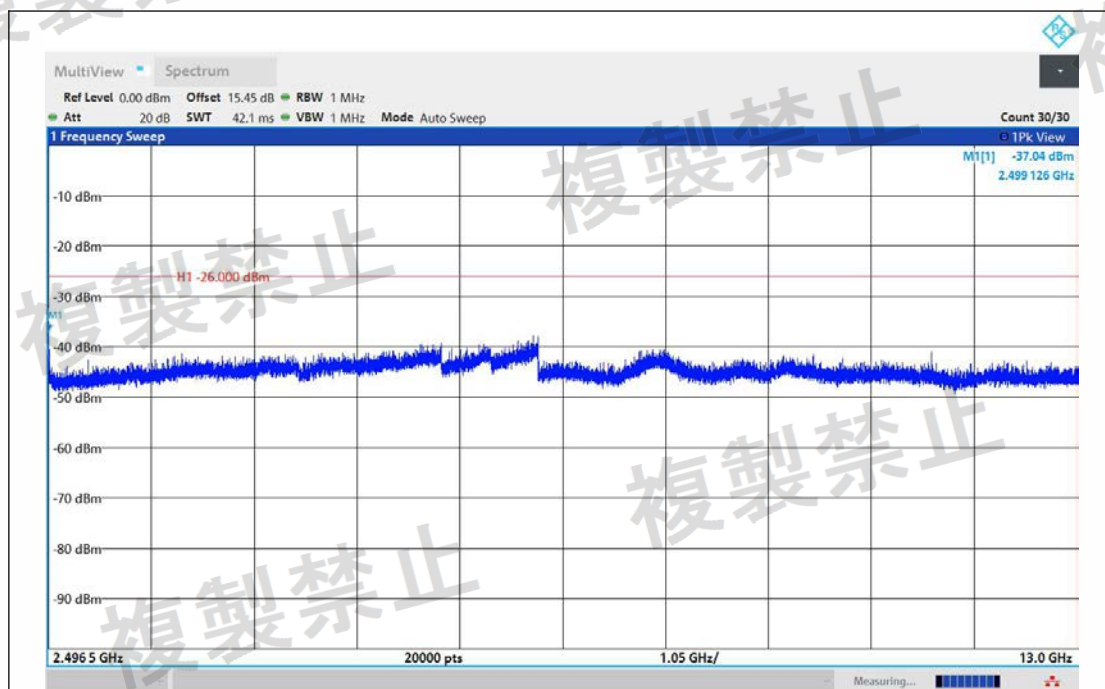


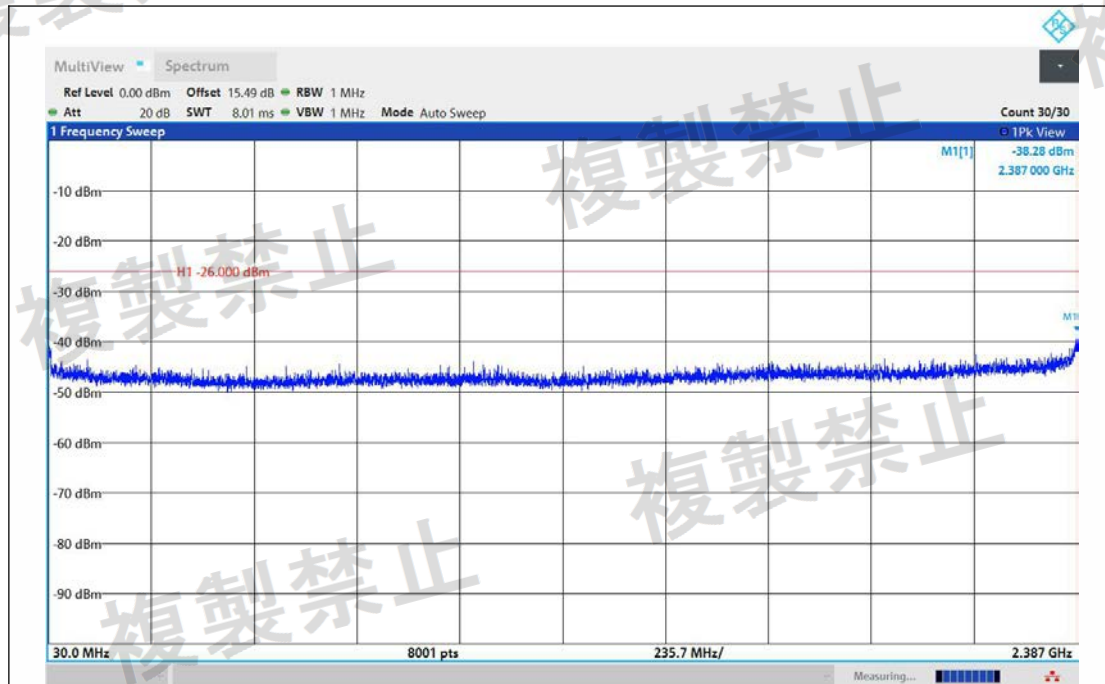


NTNV-11G-Ant1-2472-2483.5~2496.5-See table below

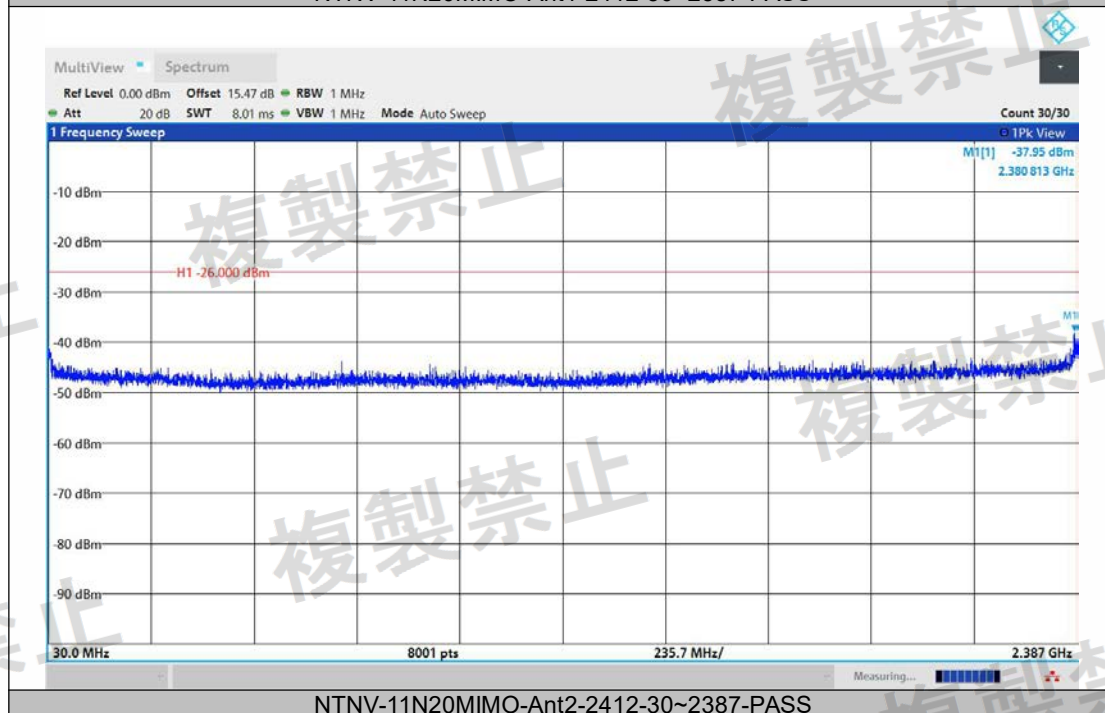


NTNV-11G-Ant2-2472-2483.5~2496.5-See table below

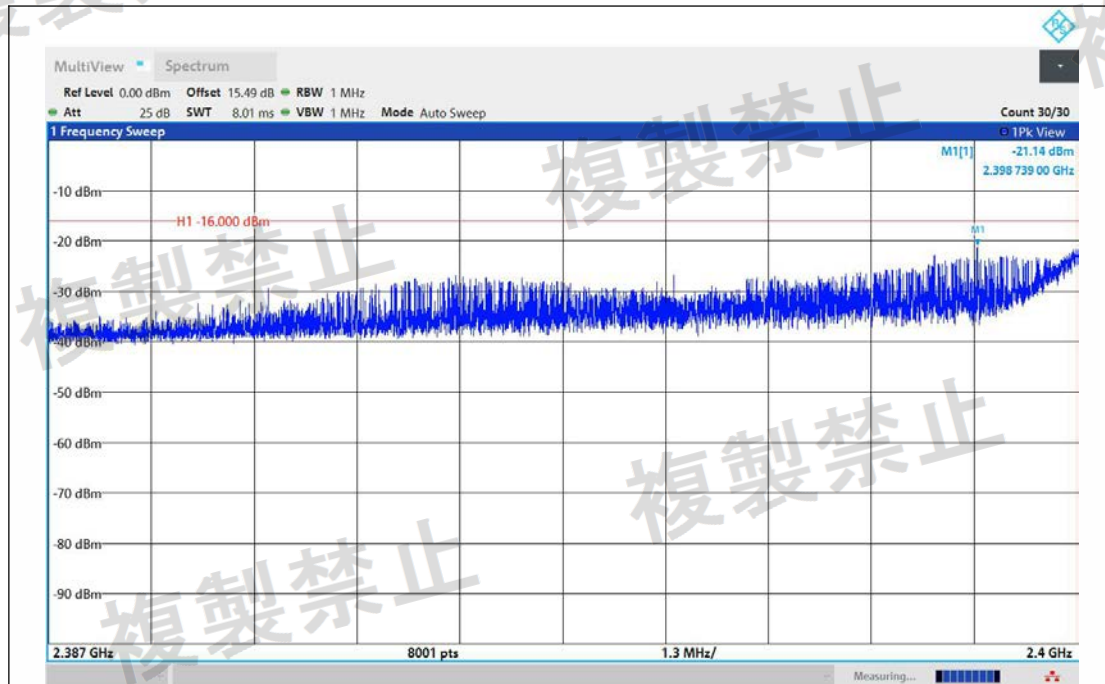




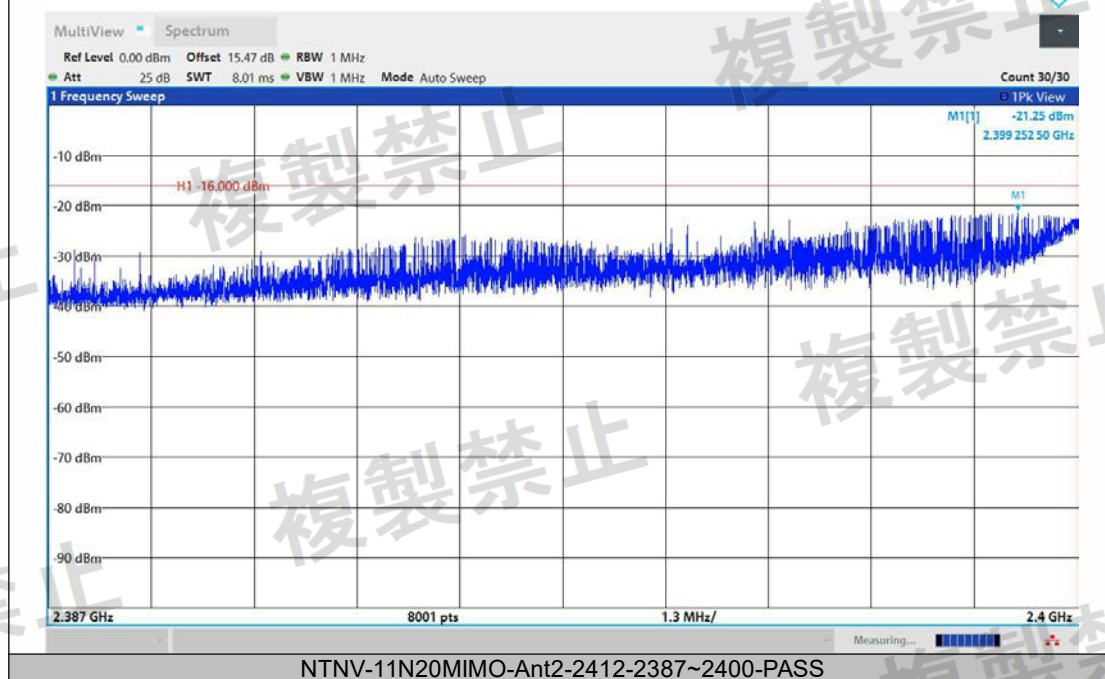
NTNV-11N20MIMO-Ant1-2412-30~2387-PASS



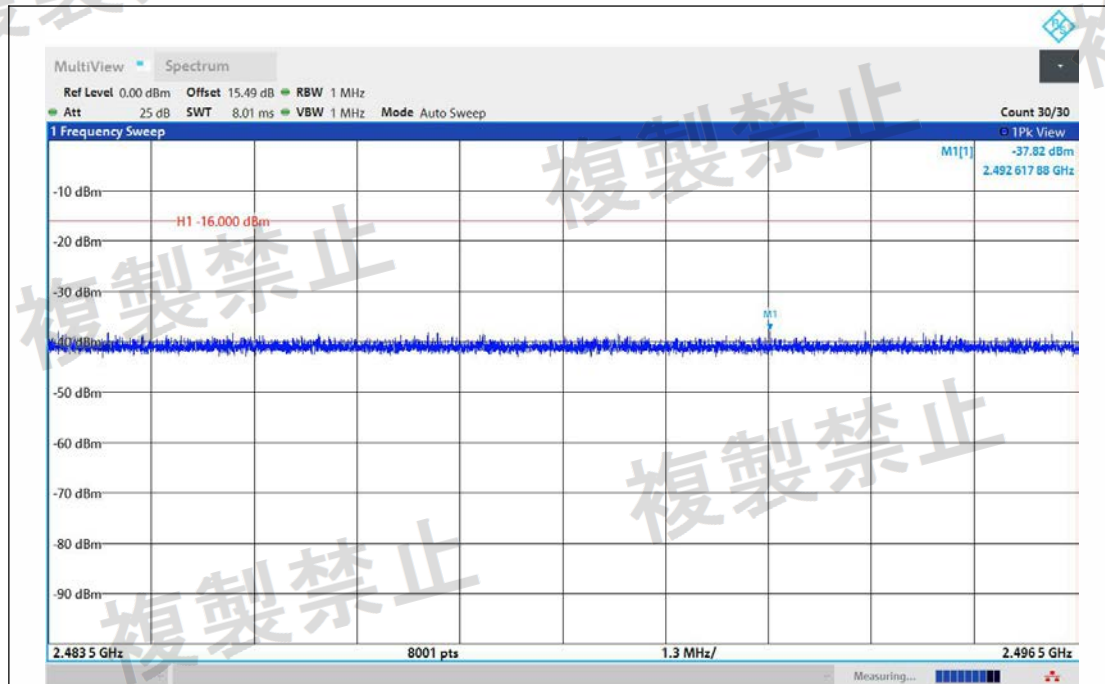
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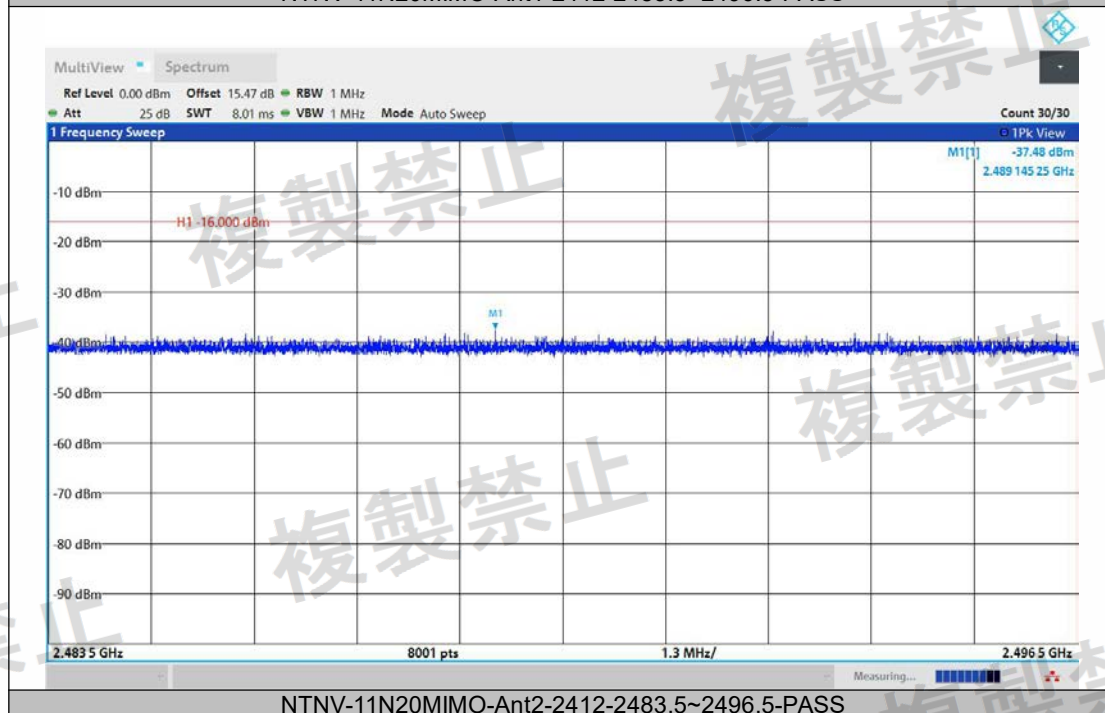
NTNV-11N20MIMO-Ant1-2412-2387~2400-PASS



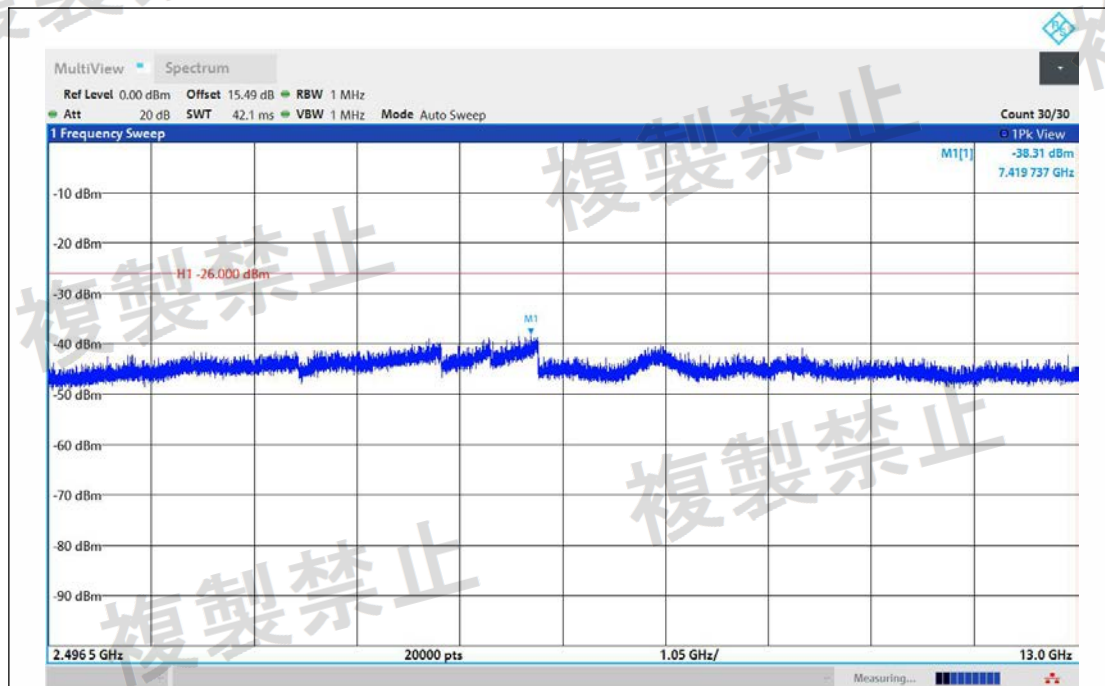
NTNV-11N20MIMO-Ant2-2412-2387~2400-PASS



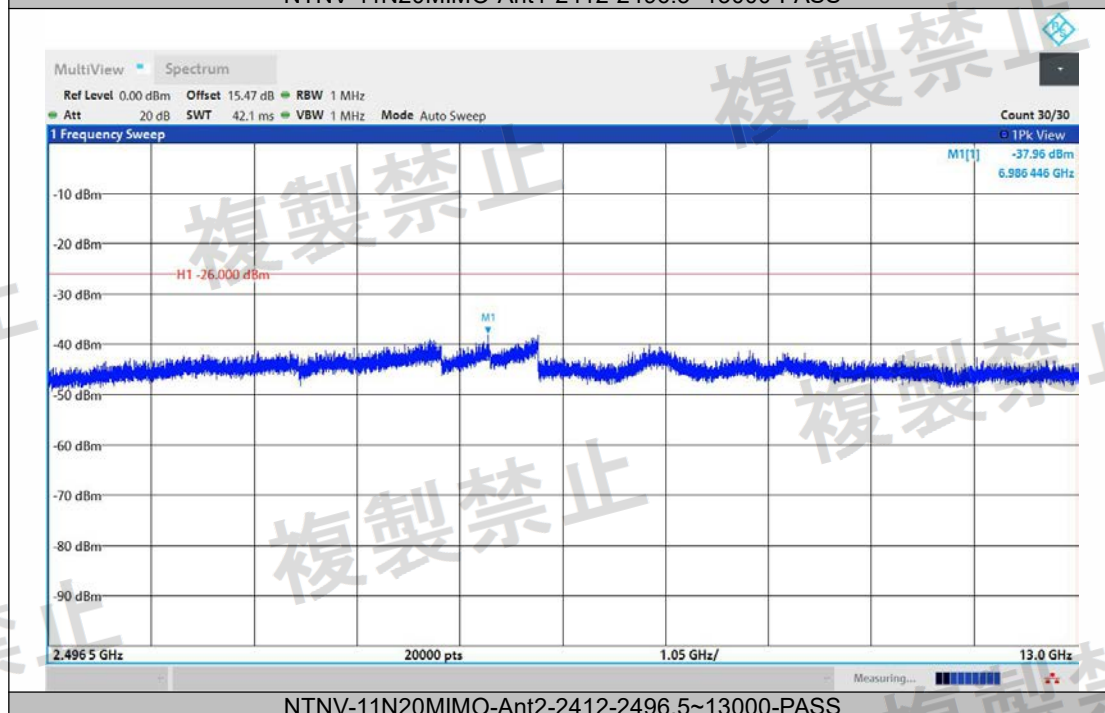
NTNV-11N20MIMO-Ant1-2412-2483.5~2496.5-PASS



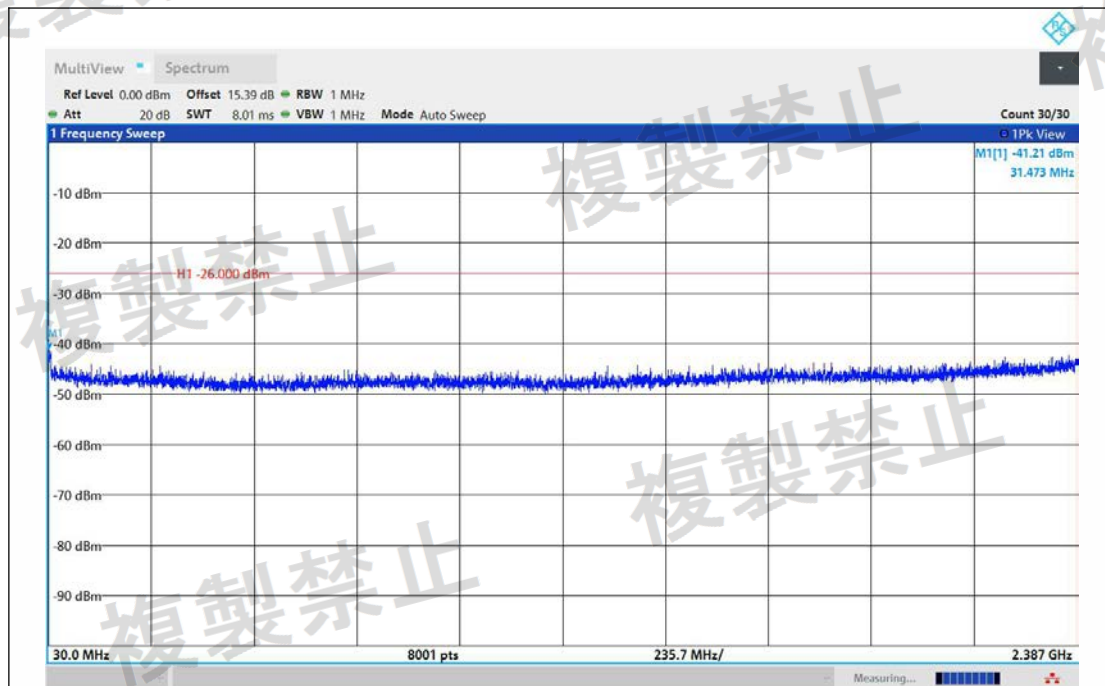
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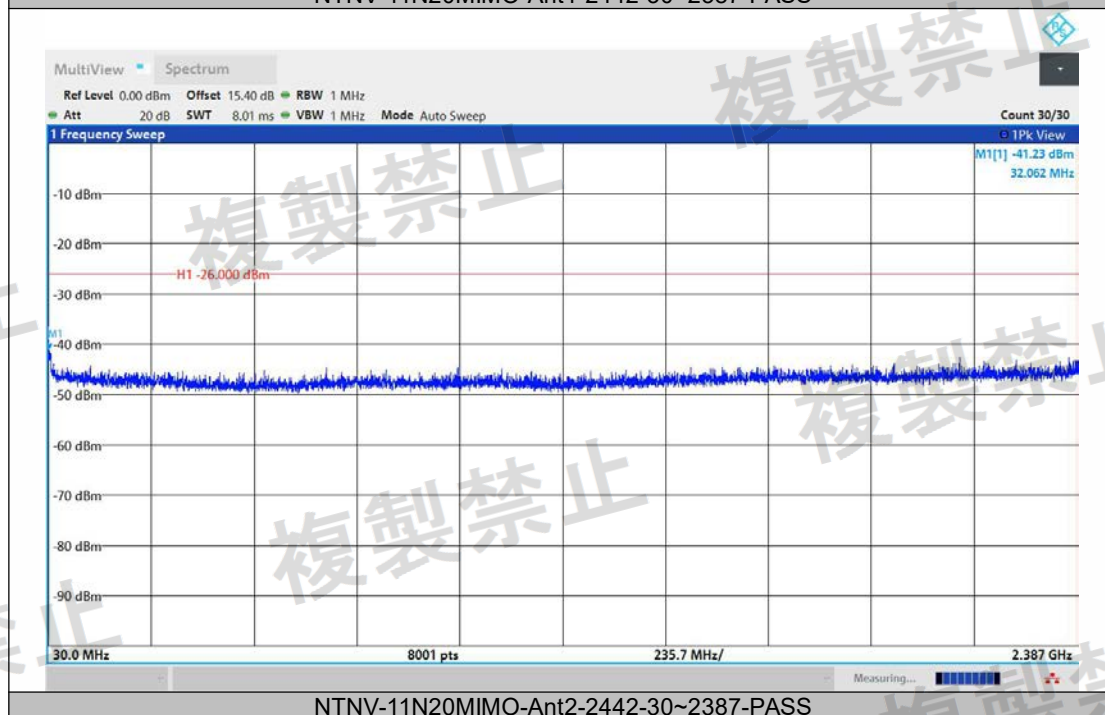
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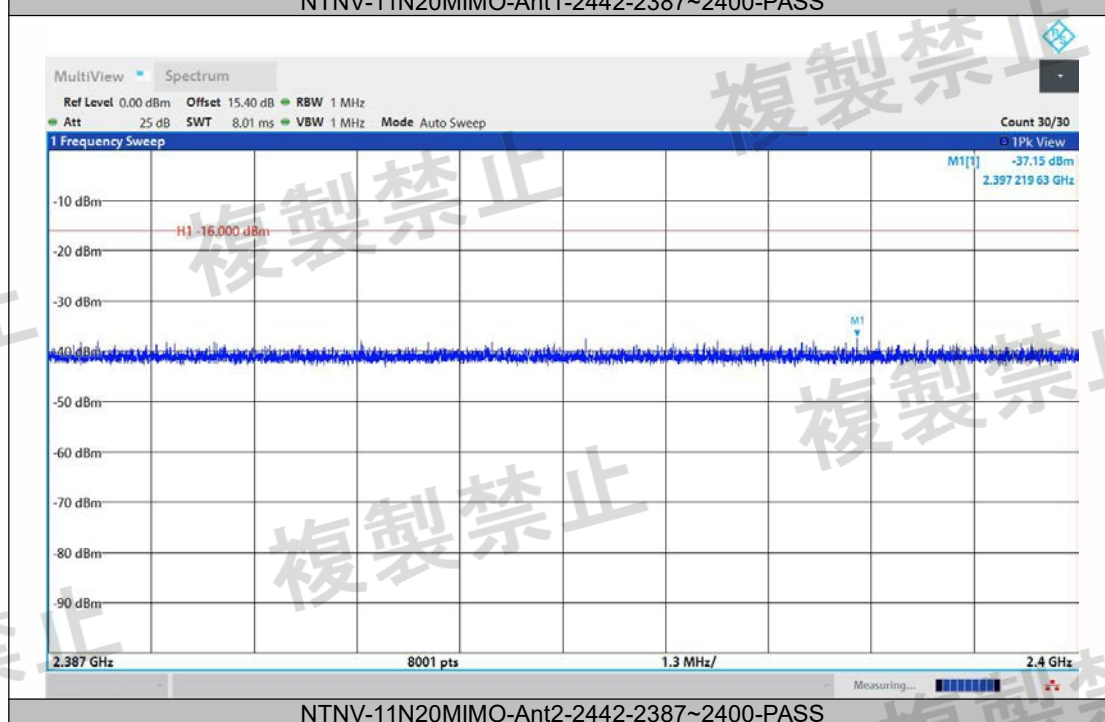
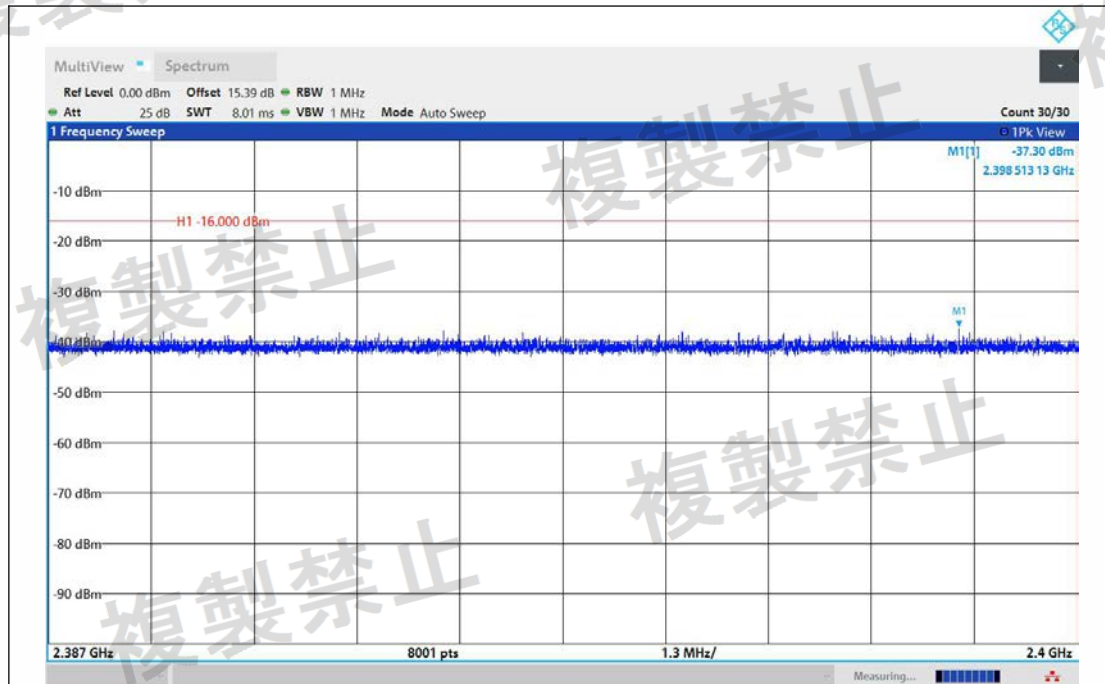
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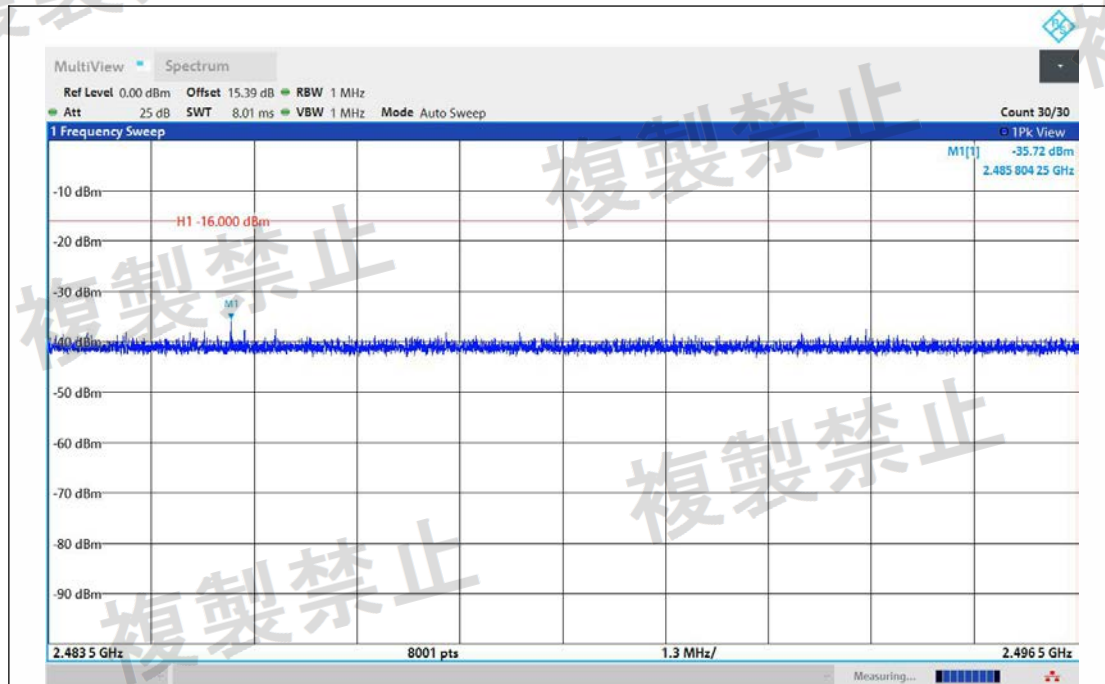


NTNV-11N20MIMO-Ant1-2442-30~2387-PASS

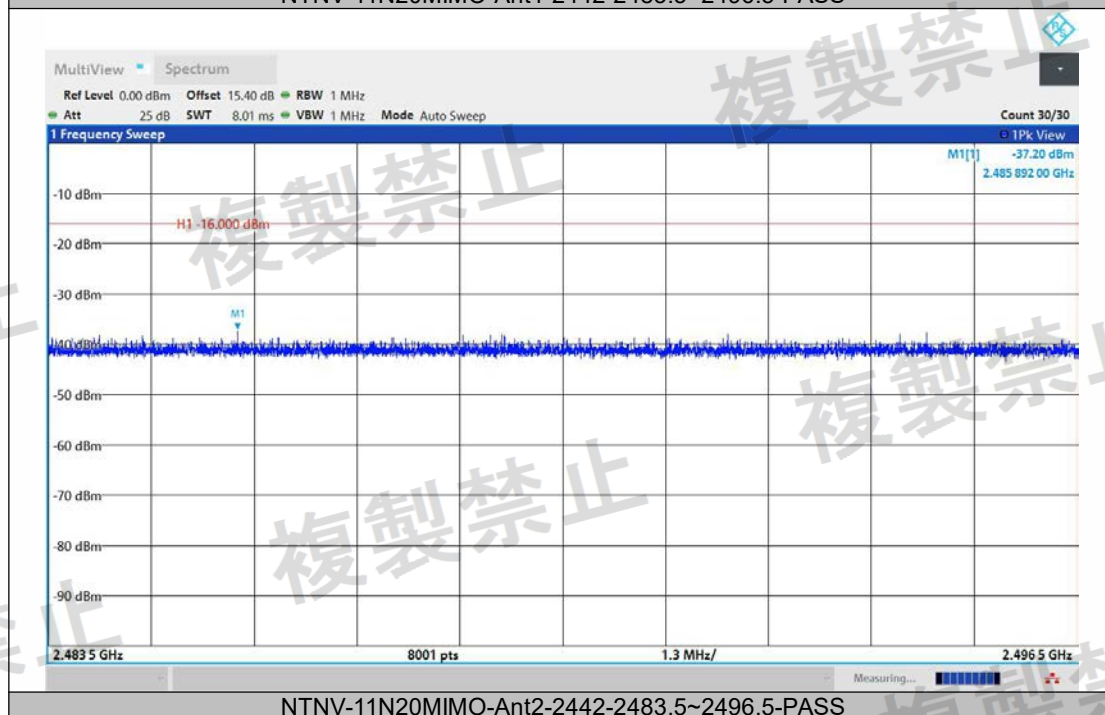


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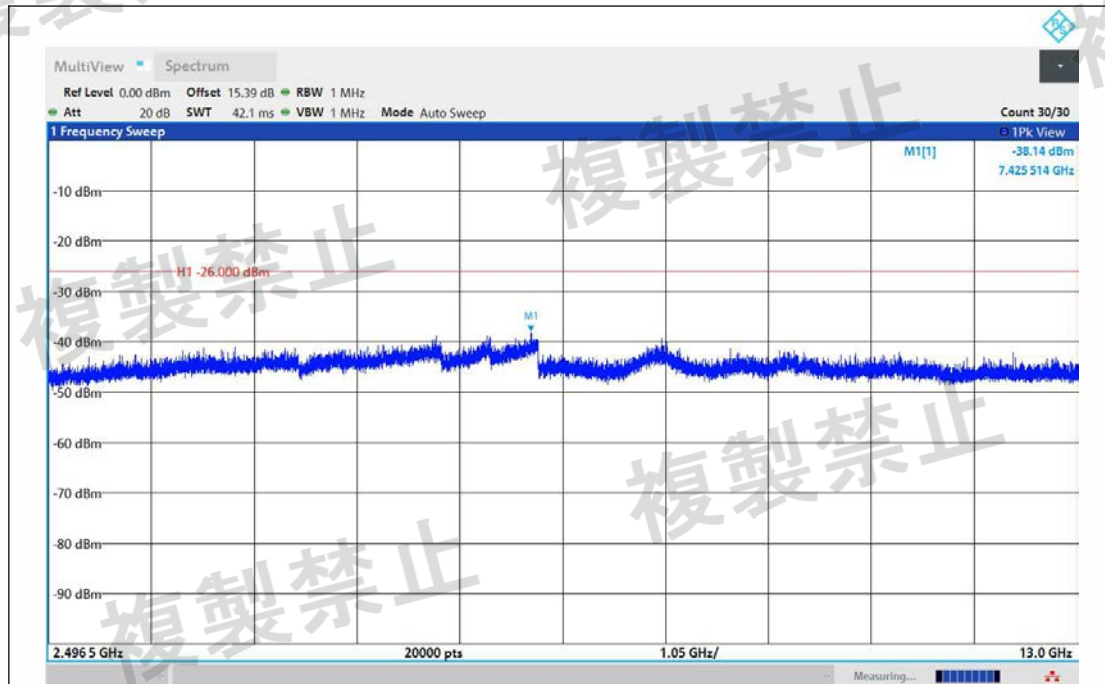




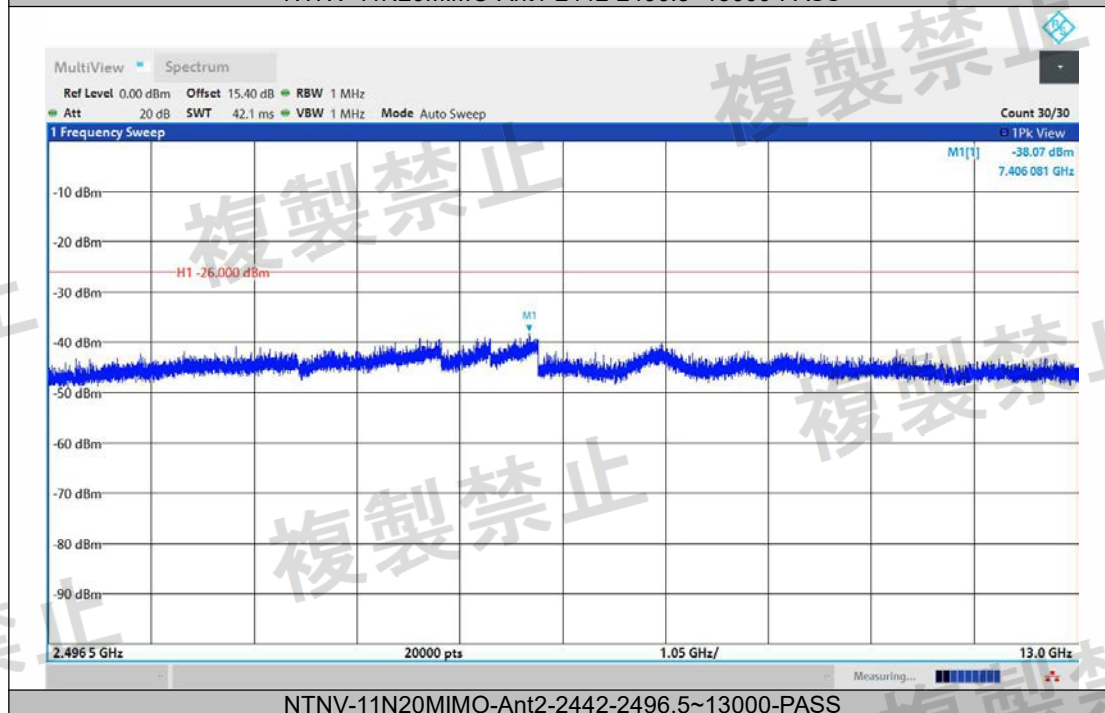
NTNV-11N20MIMO-Ant1-2442-2483.5~2496.5-PASS



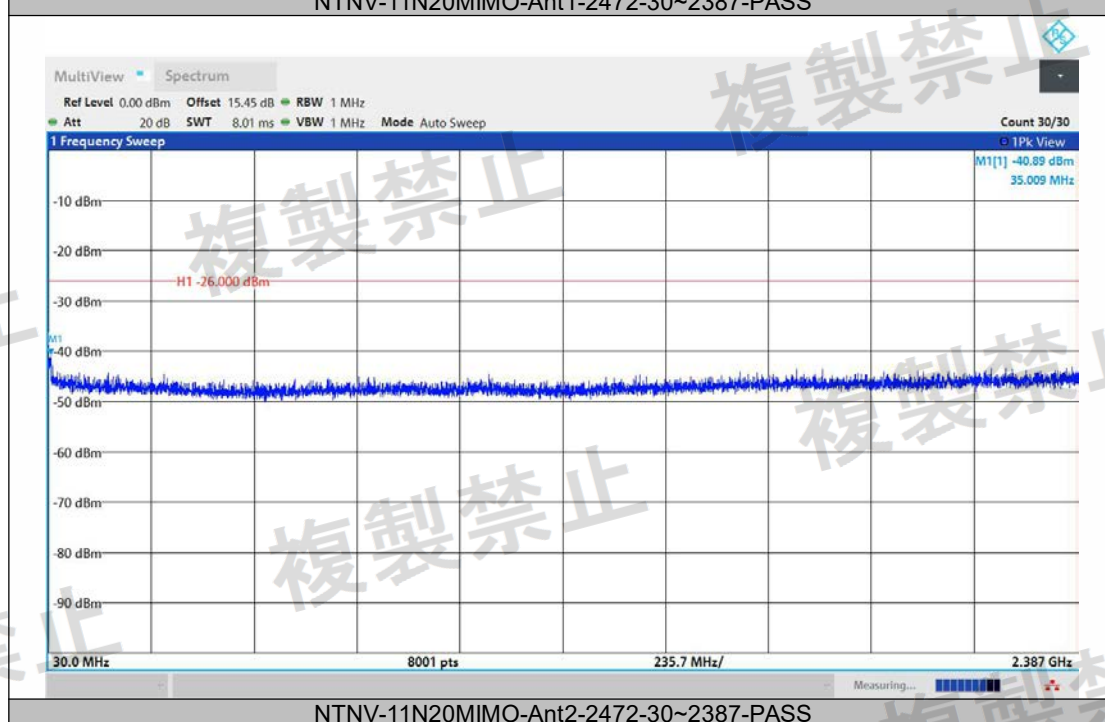
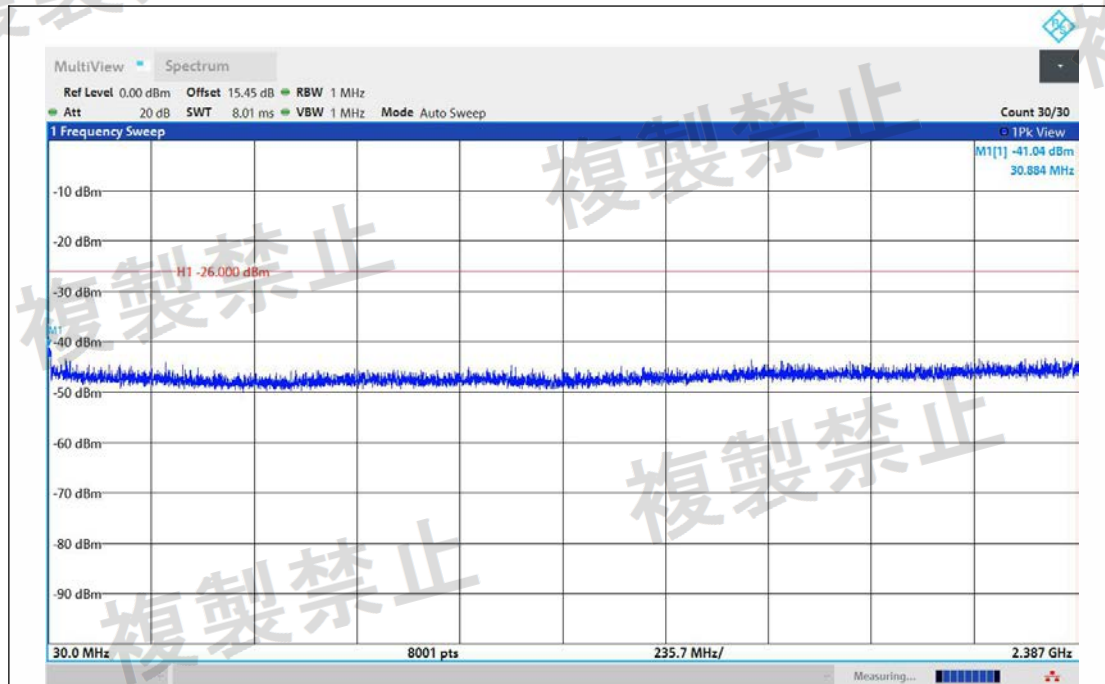
NTNV-11N20MIMO-Ant2-2442-2483.5~2496.5-PASS

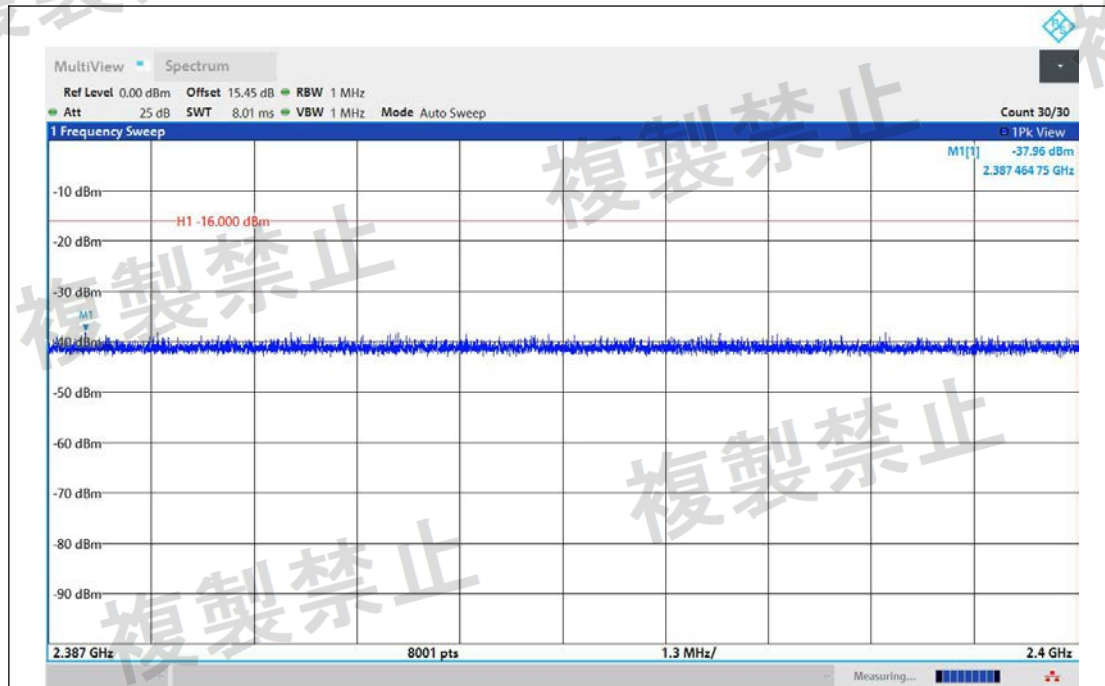


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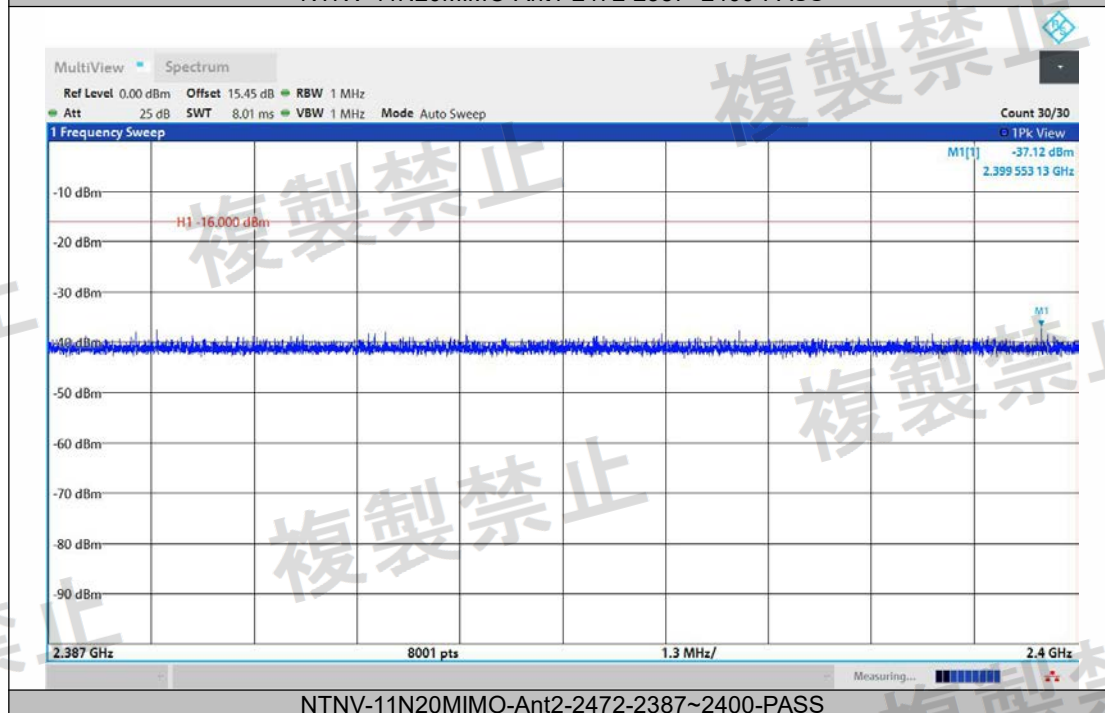


NTNV-11N20MIMO-Ant2-2442-2496.5~13000-PASS

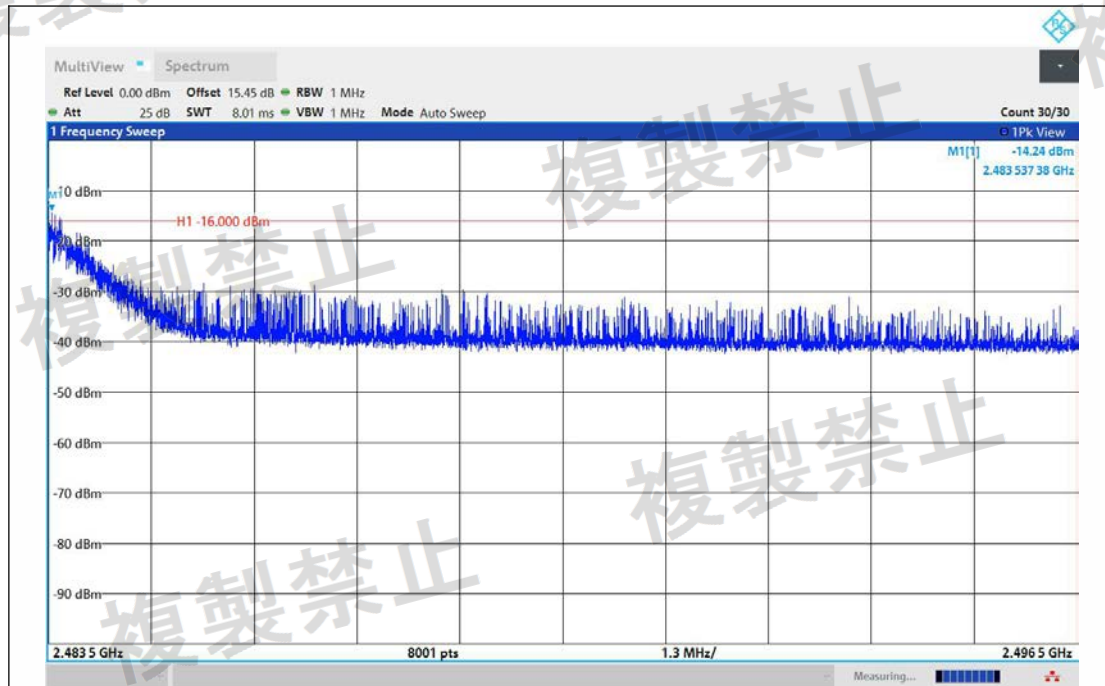




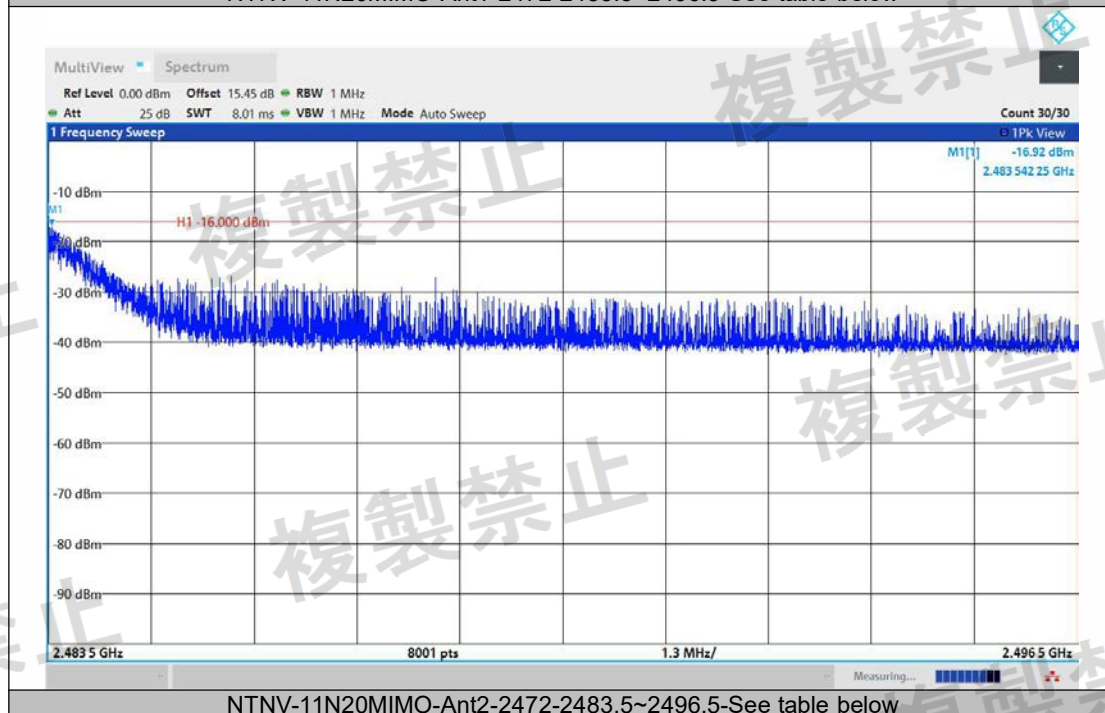
NTNV-11N20MIMO-Ant1-2472-2387~2400-PASS



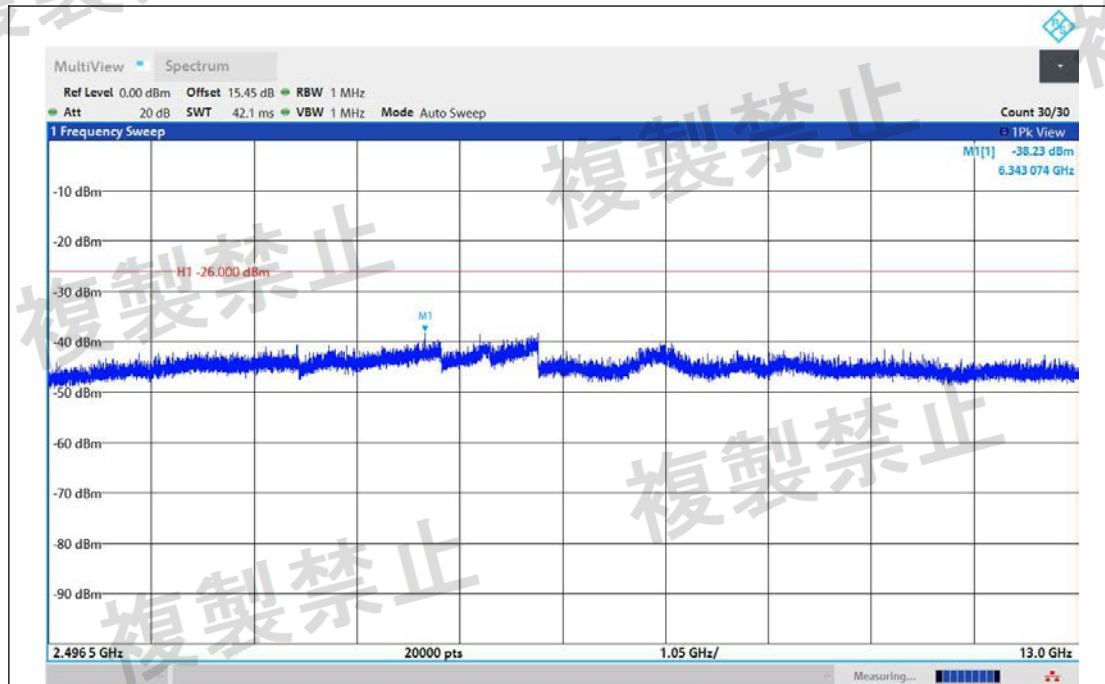
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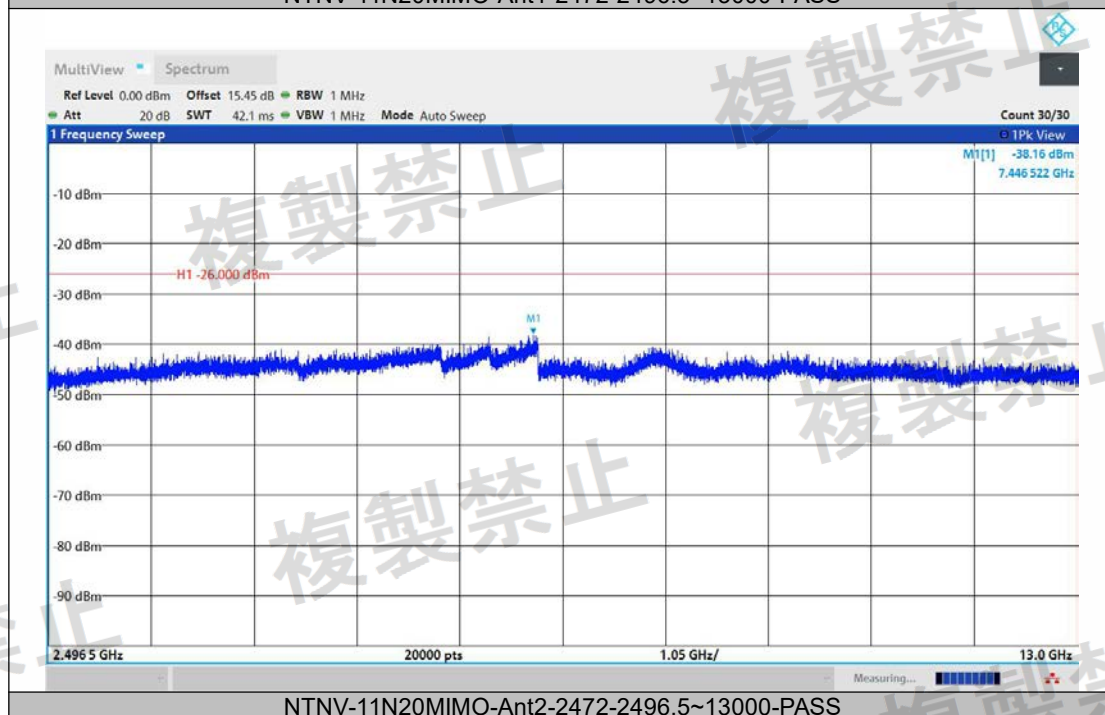
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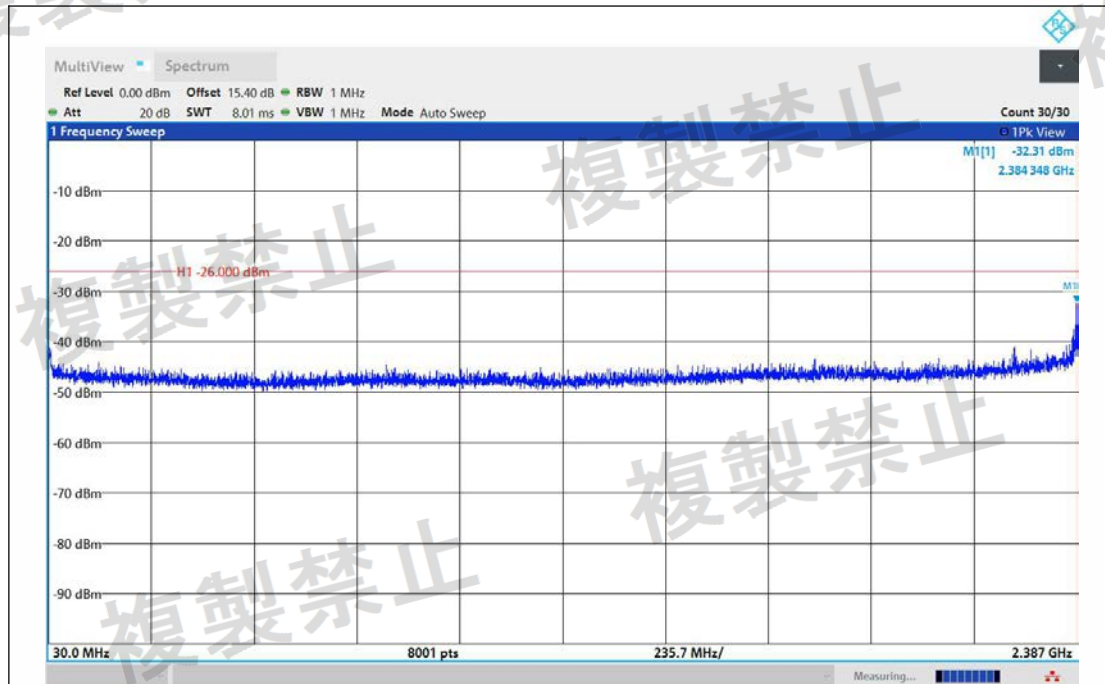
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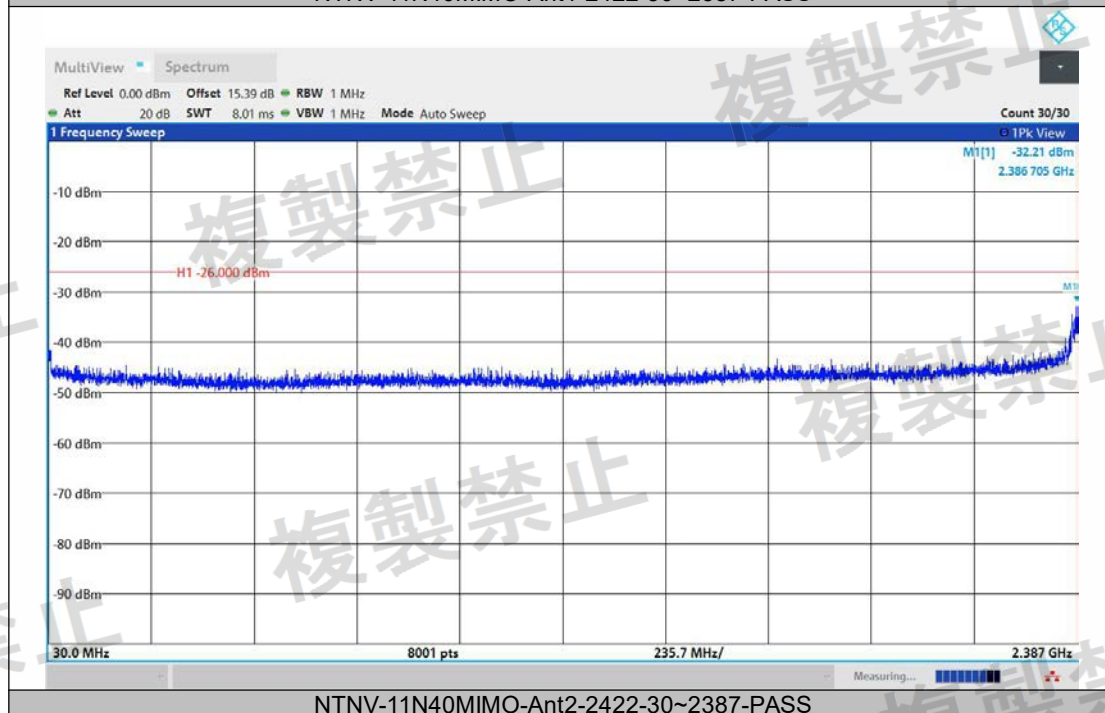
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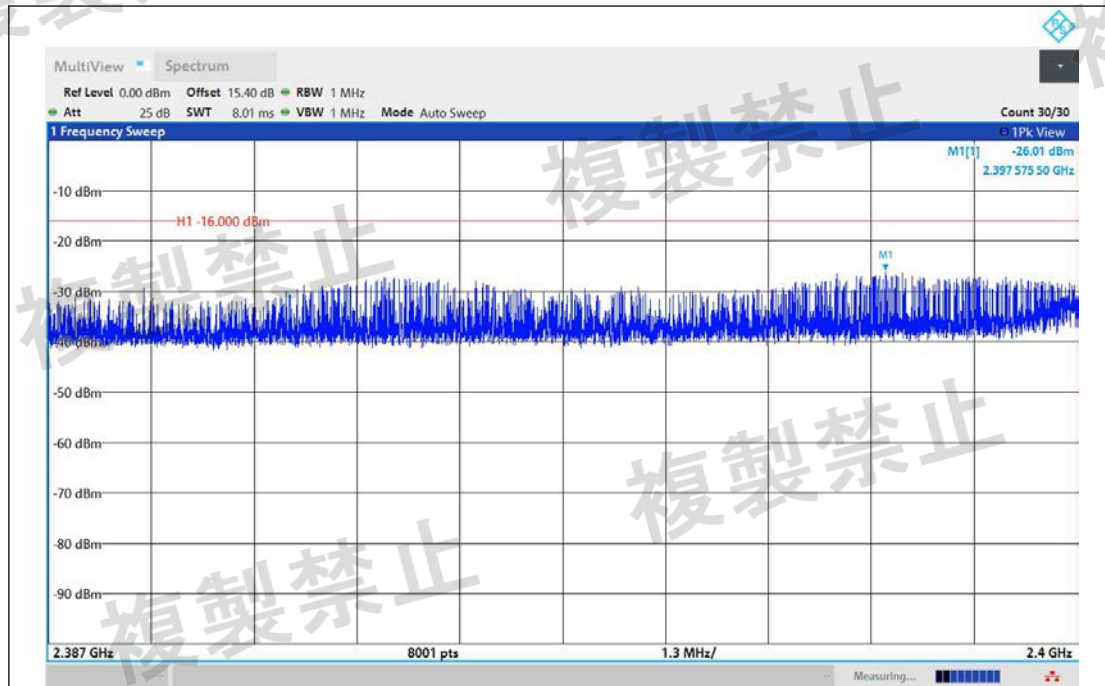
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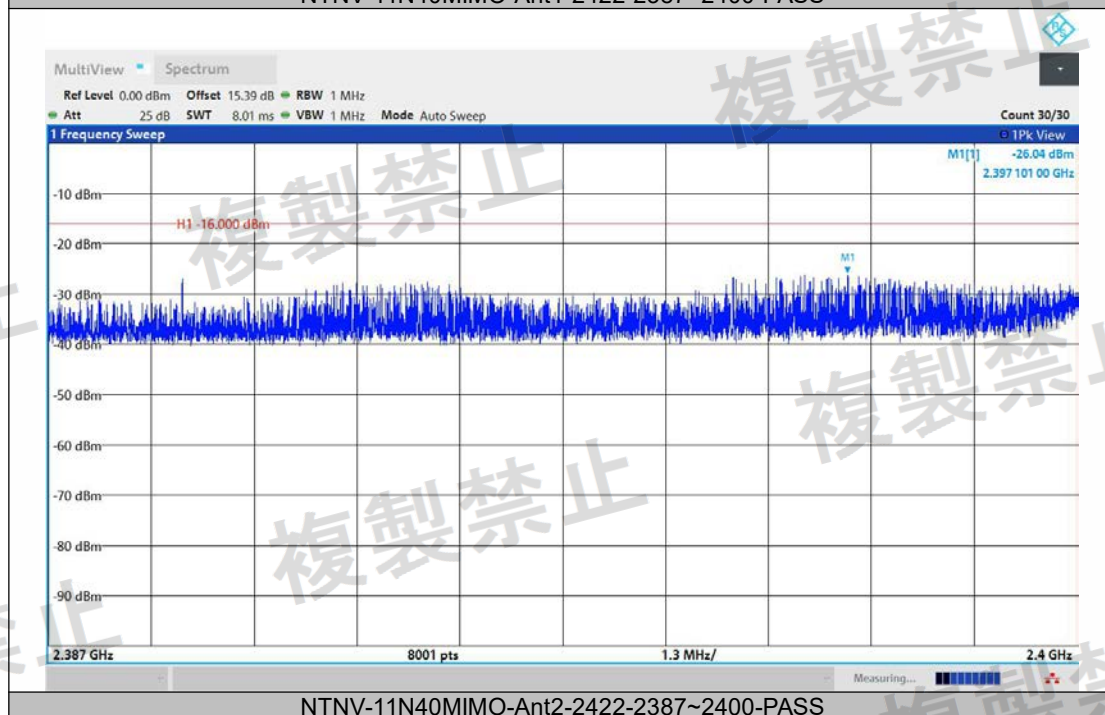
NTNV-11N40MIMO-Ant1-2422-30~2387-PASS



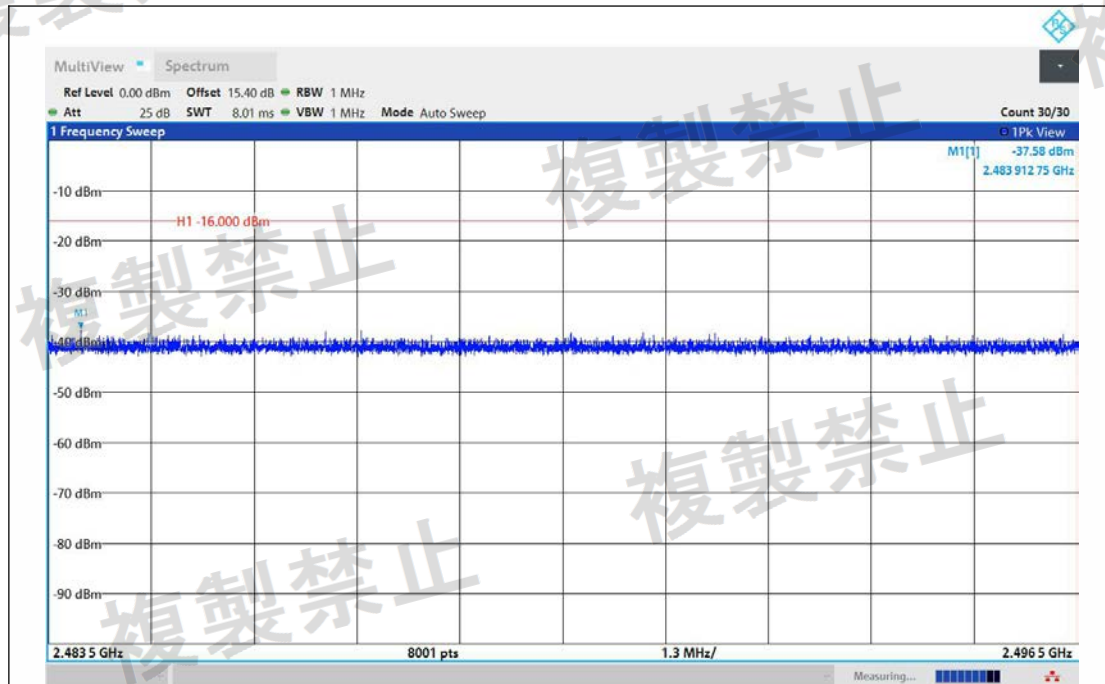
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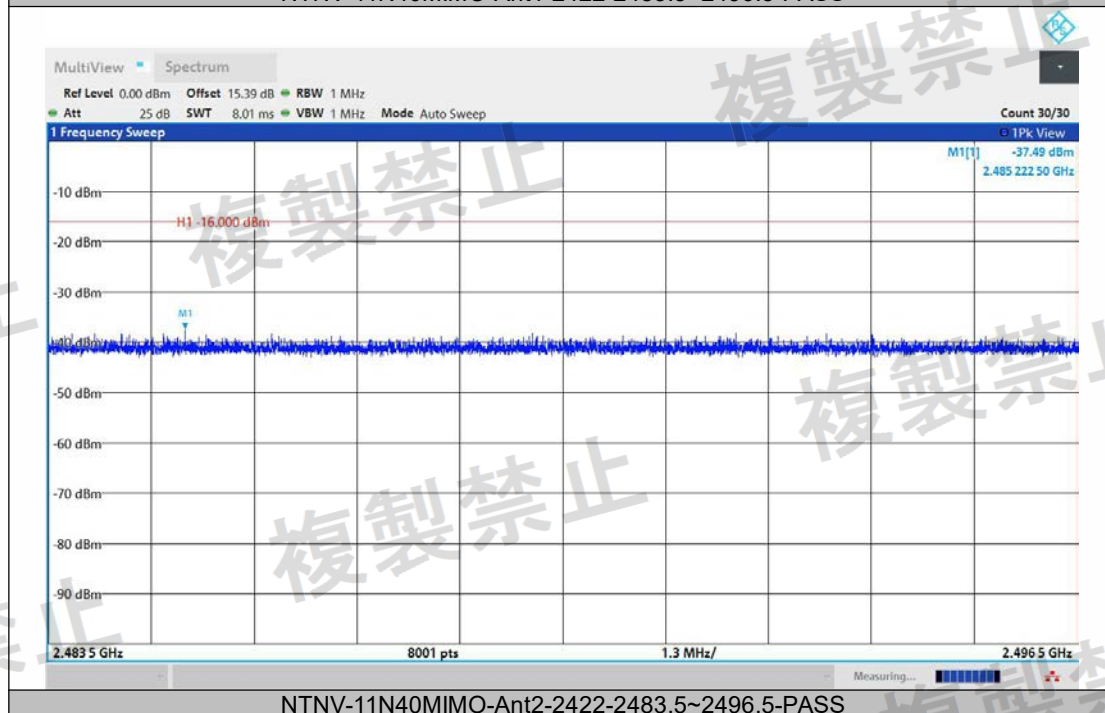
NTNV-11N40MIMO-Ant1-2422-2387~2400-PASS



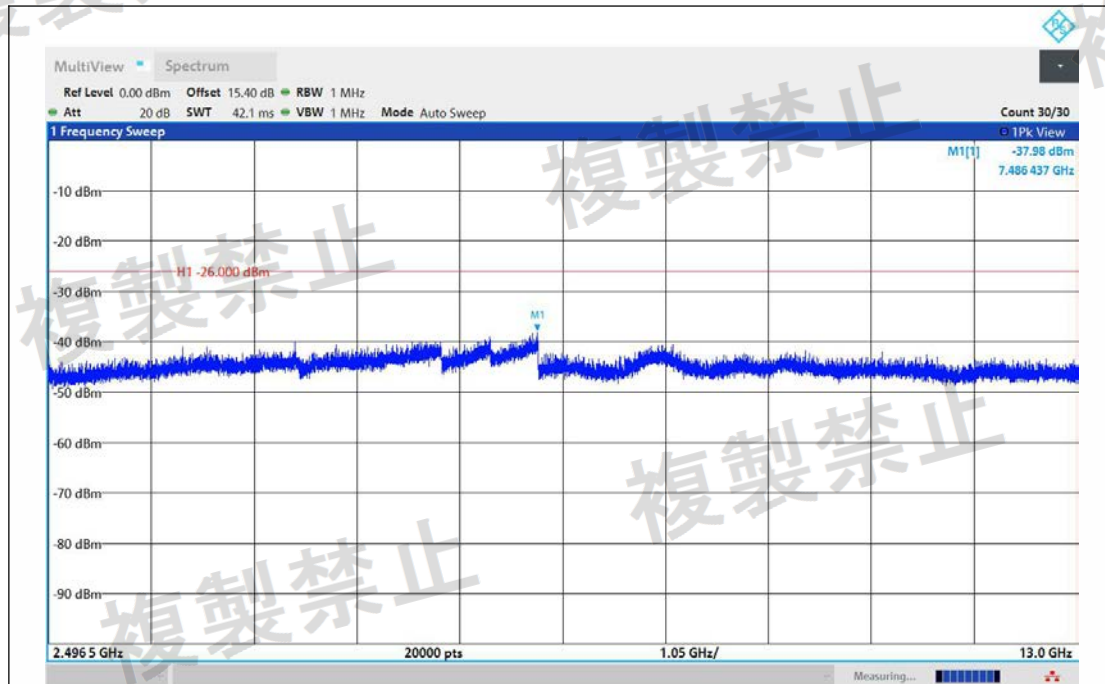
NTNV-11N40MIMO-Ant2-2422-2387~2400-PASS



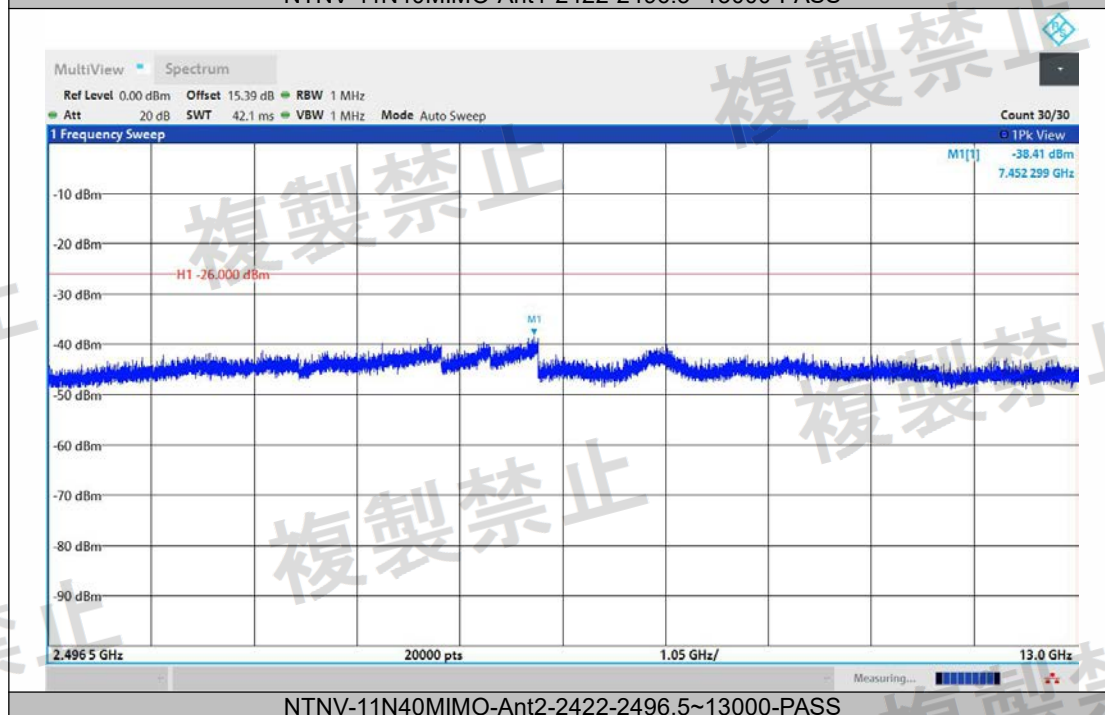
NTNV-11N40MIMO-Ant1-2422-2483.5~2496.5-PASS



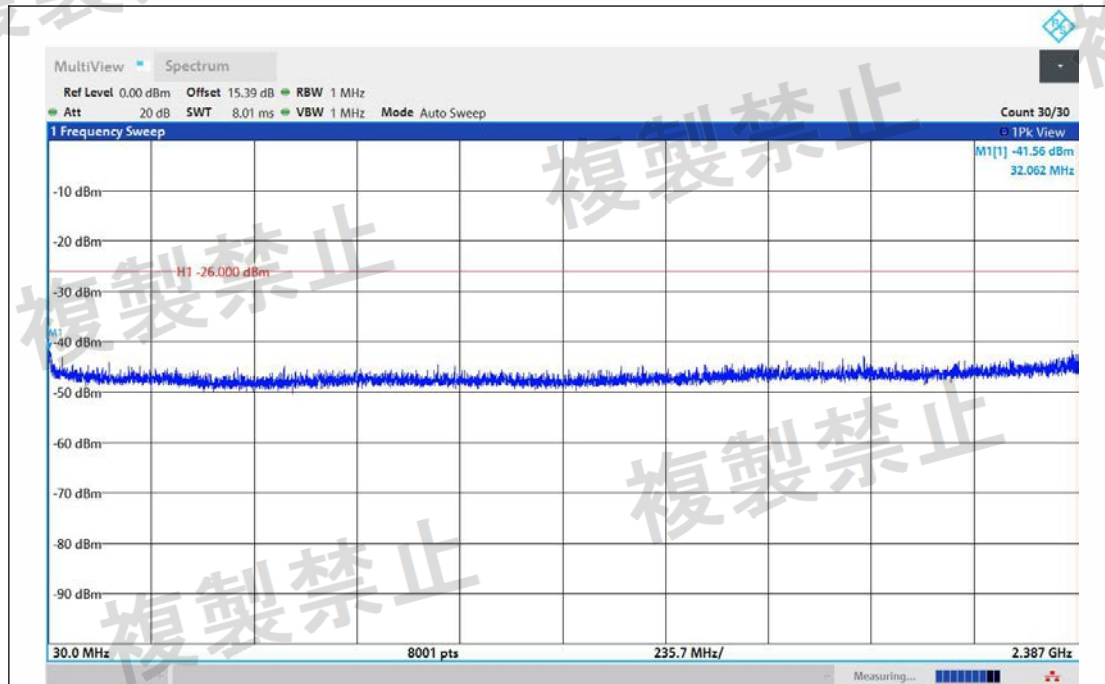
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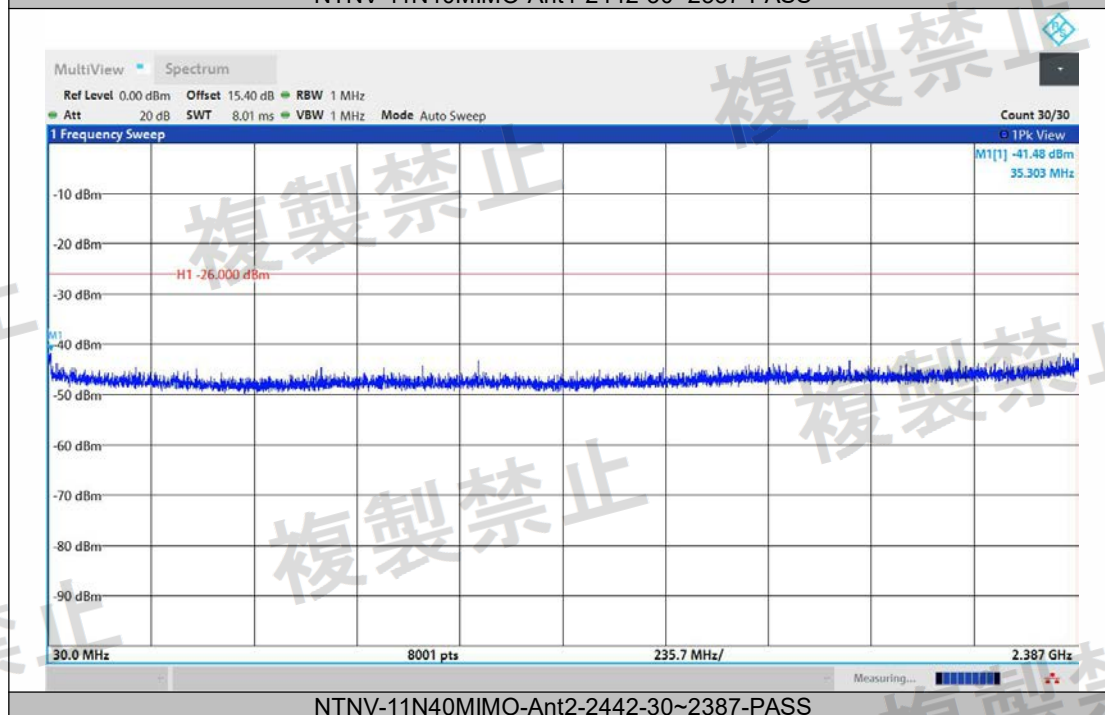
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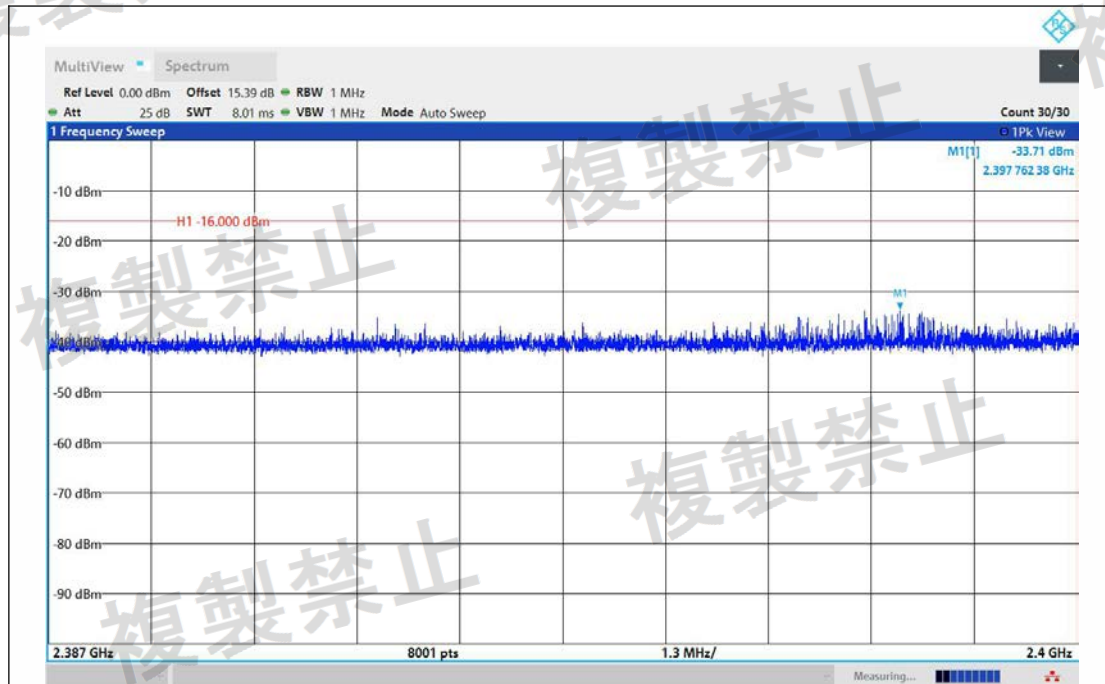
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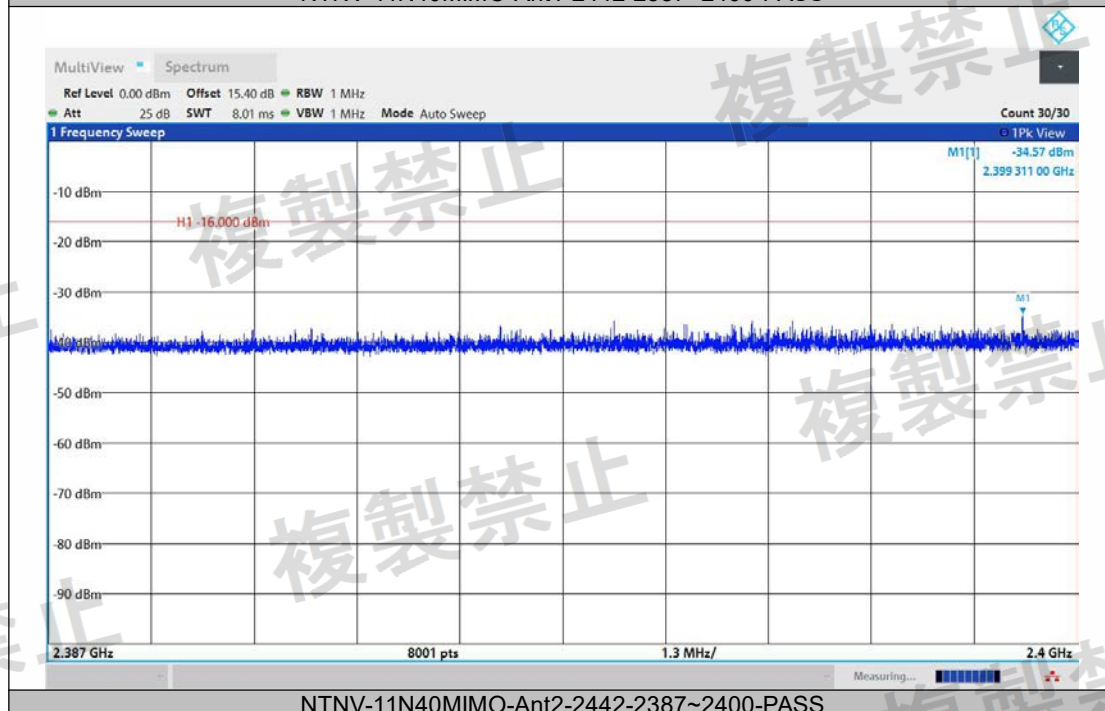
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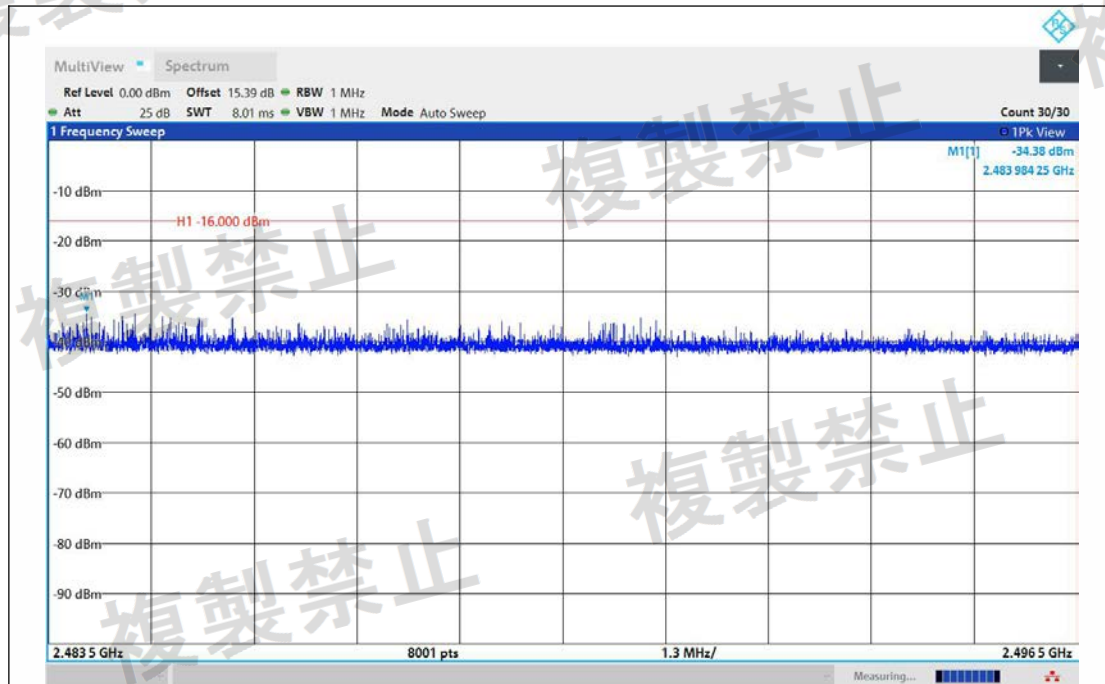
NTNV-11N40MIMO-Ant2-2442-30~2387-PASS



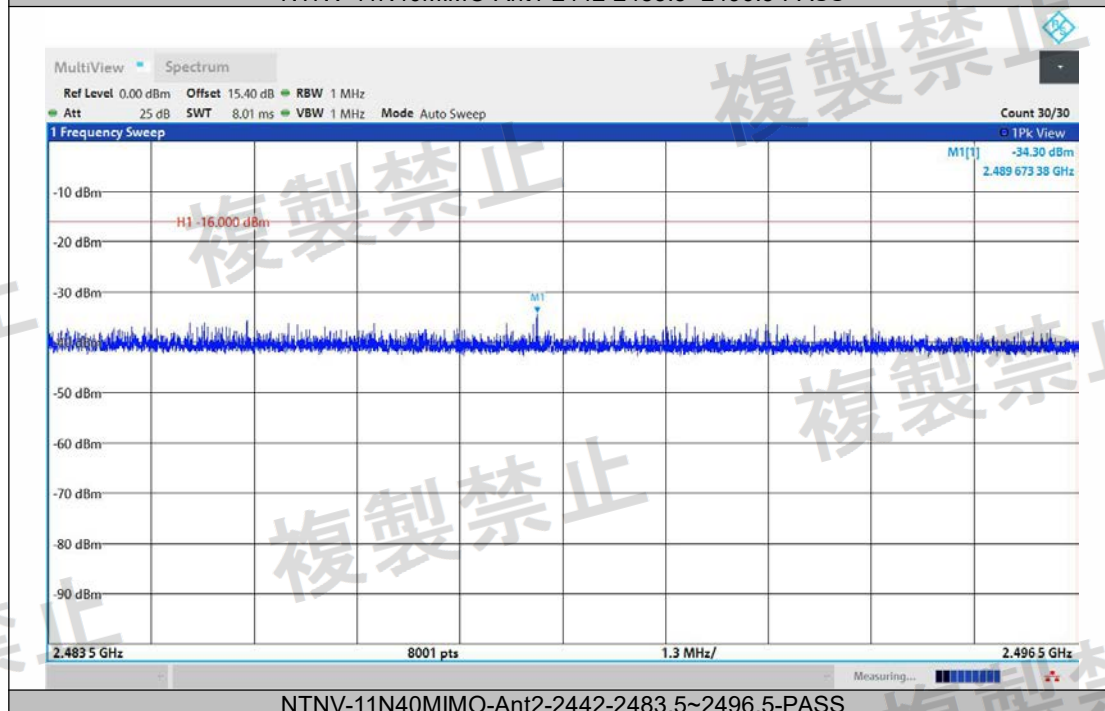
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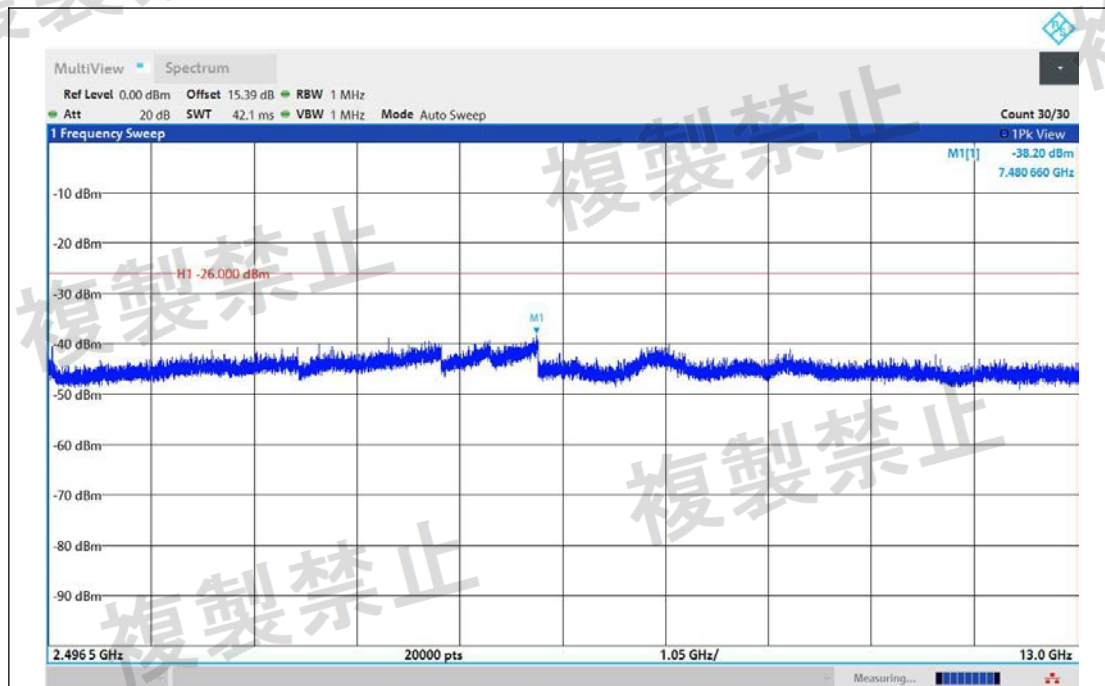
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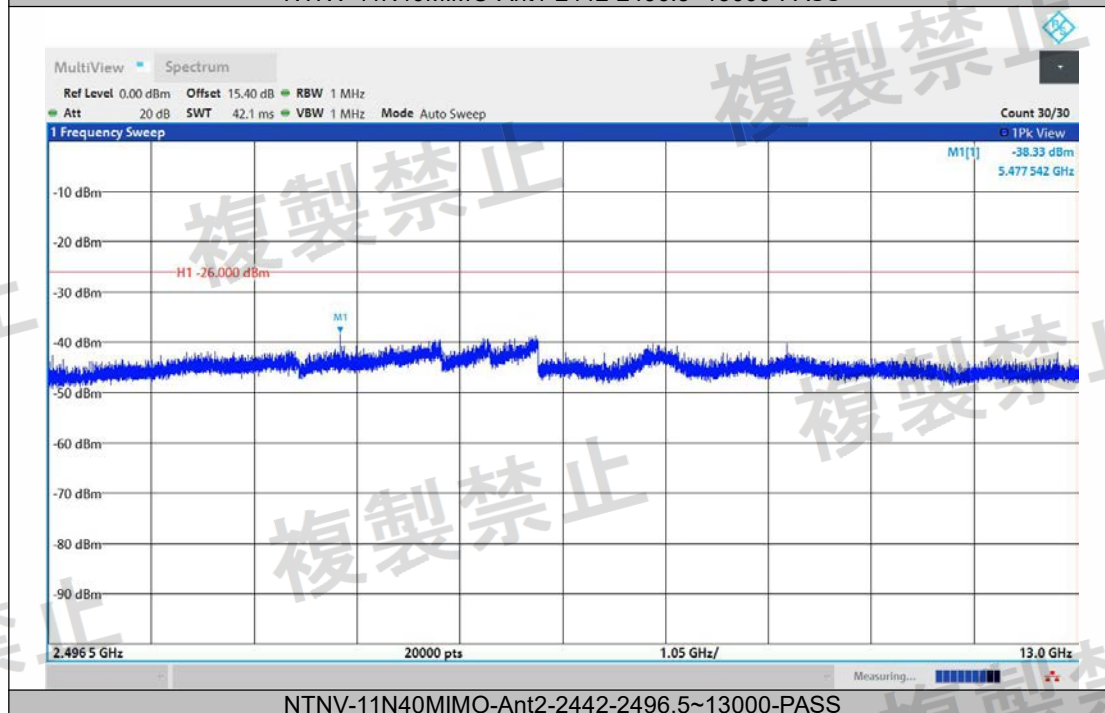
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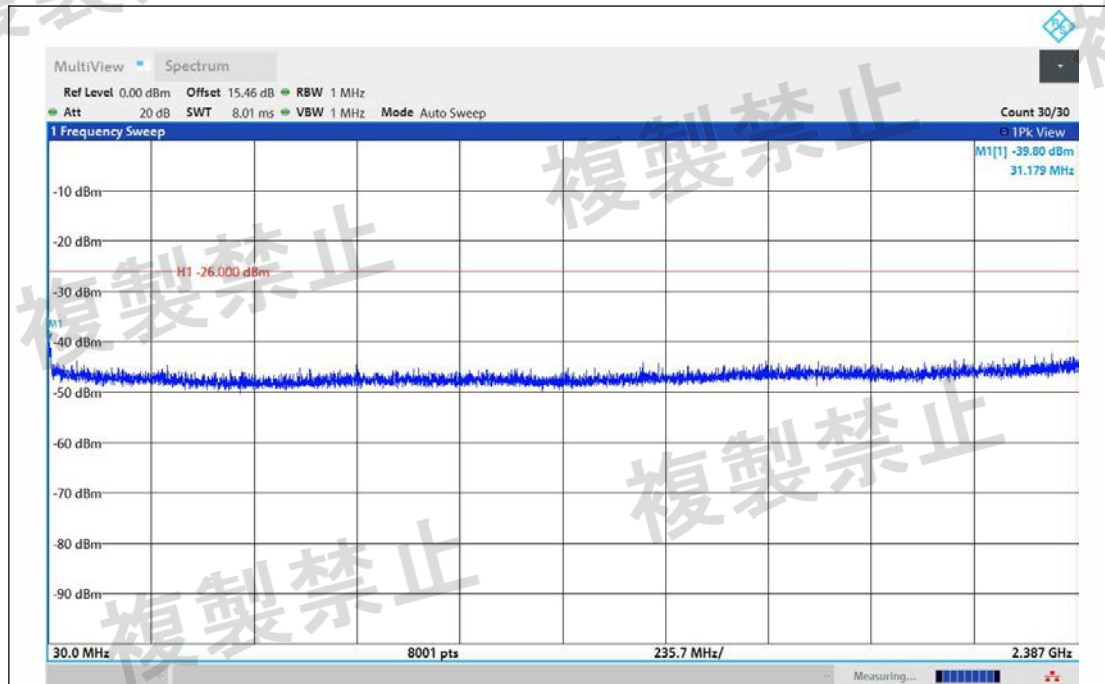
NTNV-11N40MIMO-Ant2-2442-2483.5~2496.5-PASS



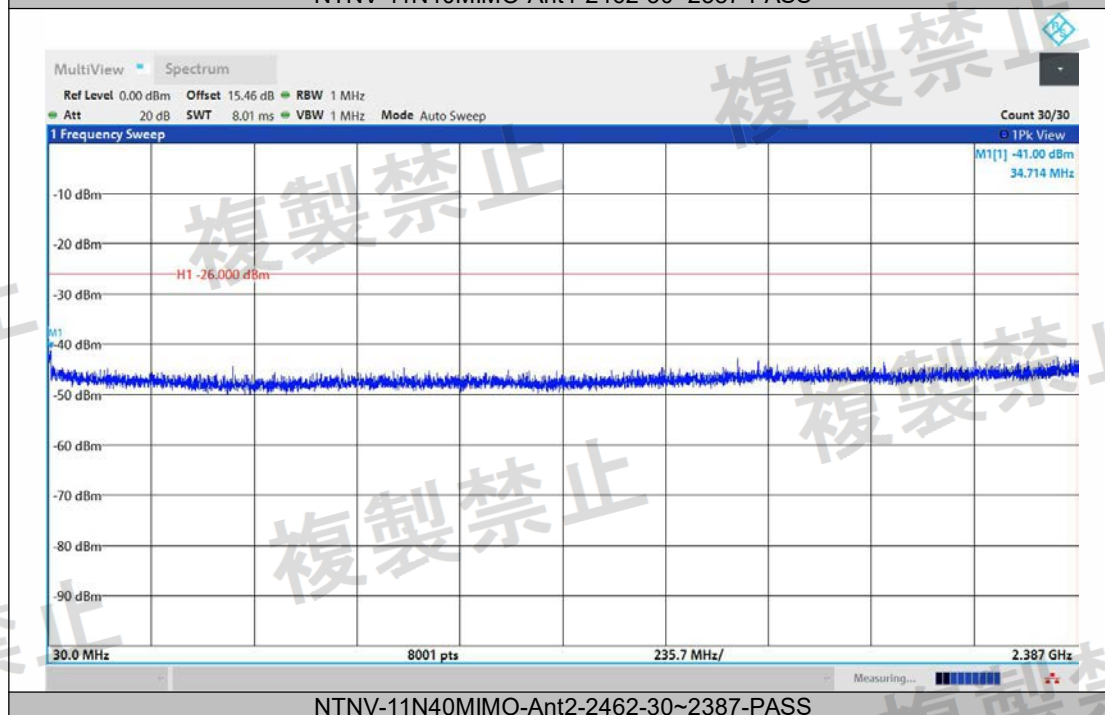
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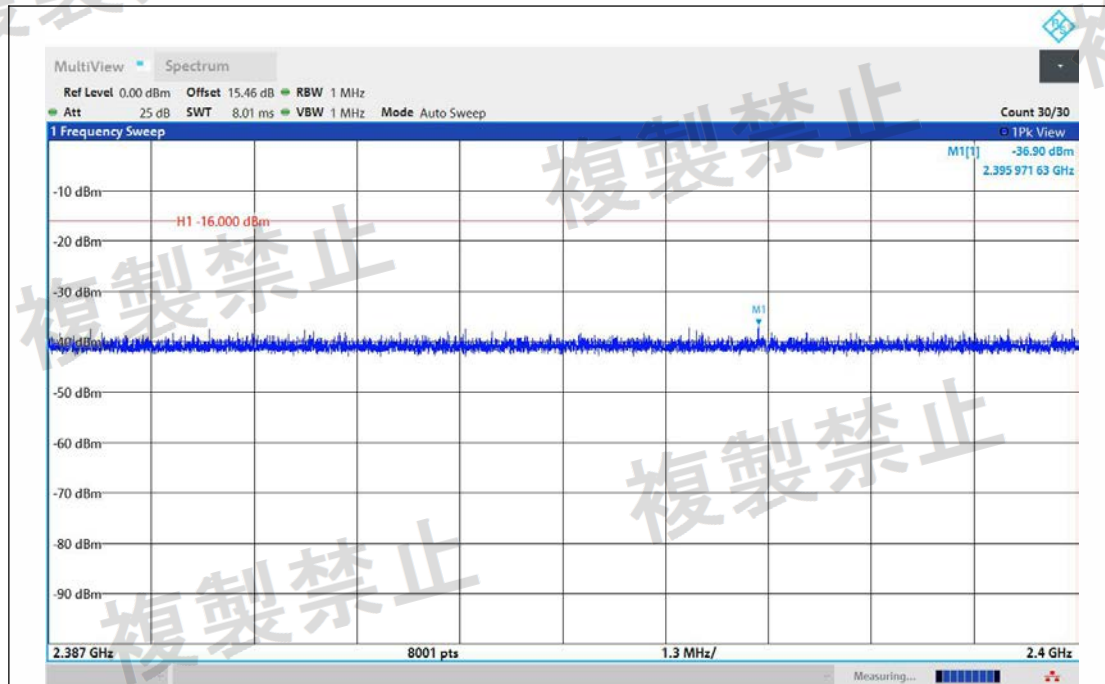
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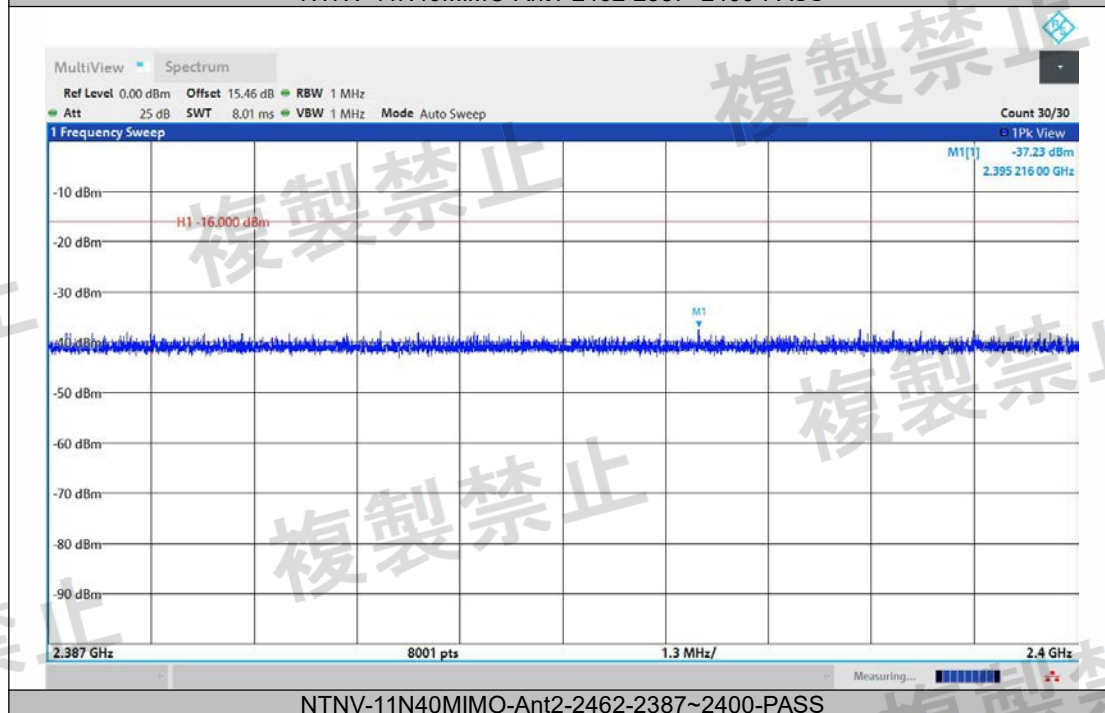
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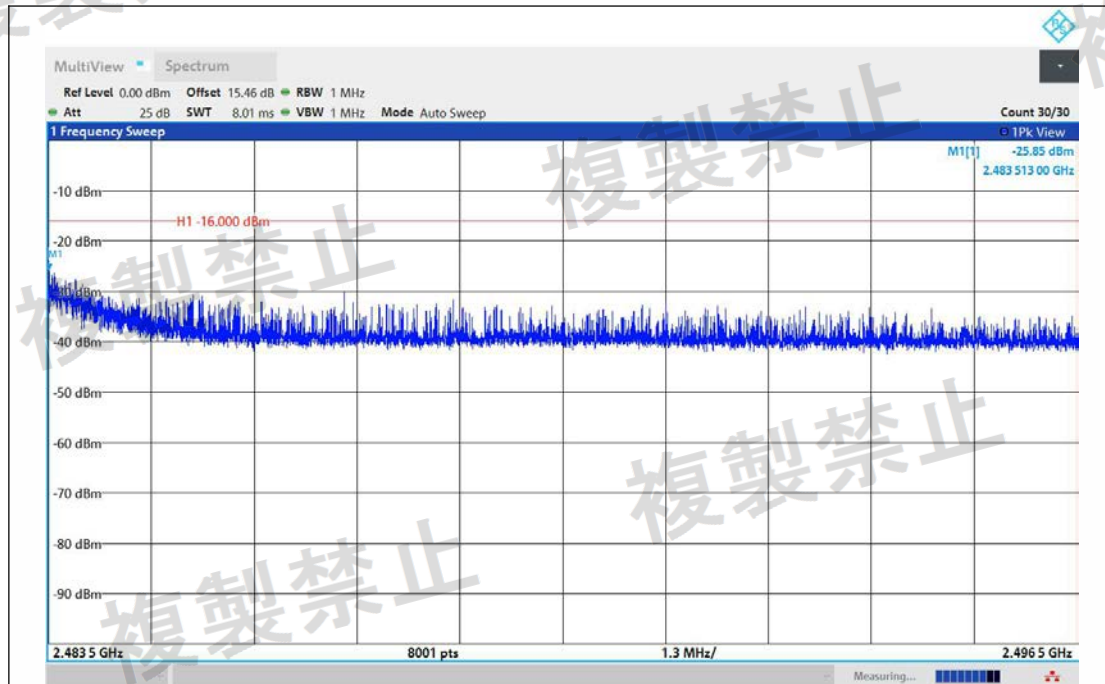
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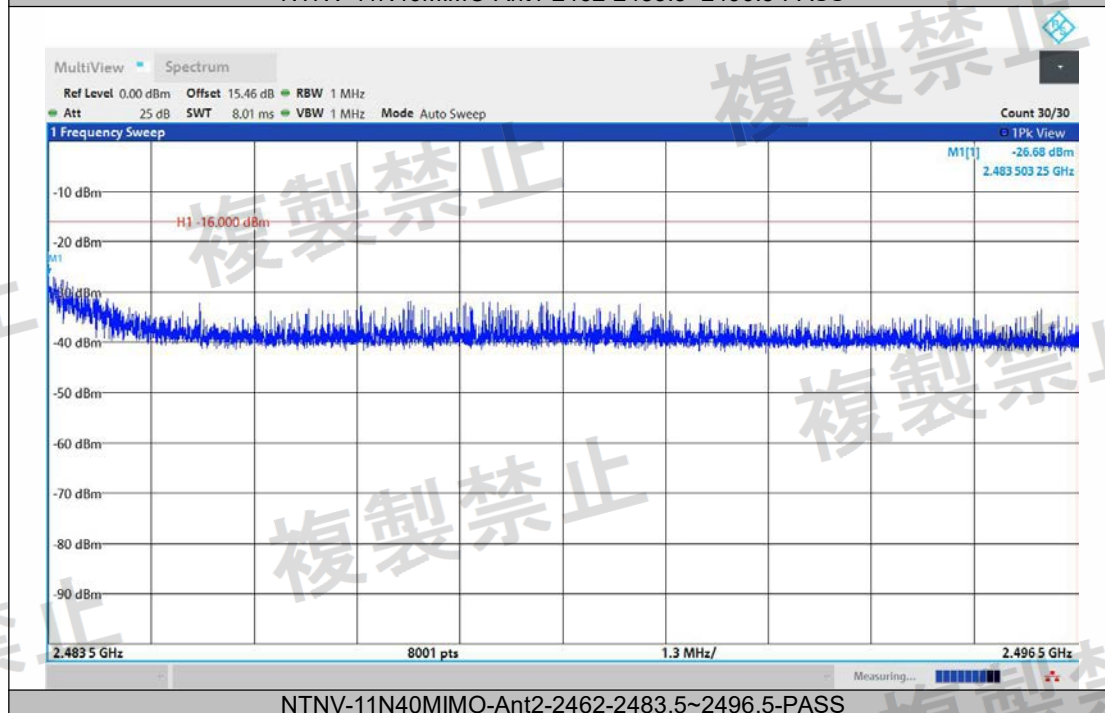
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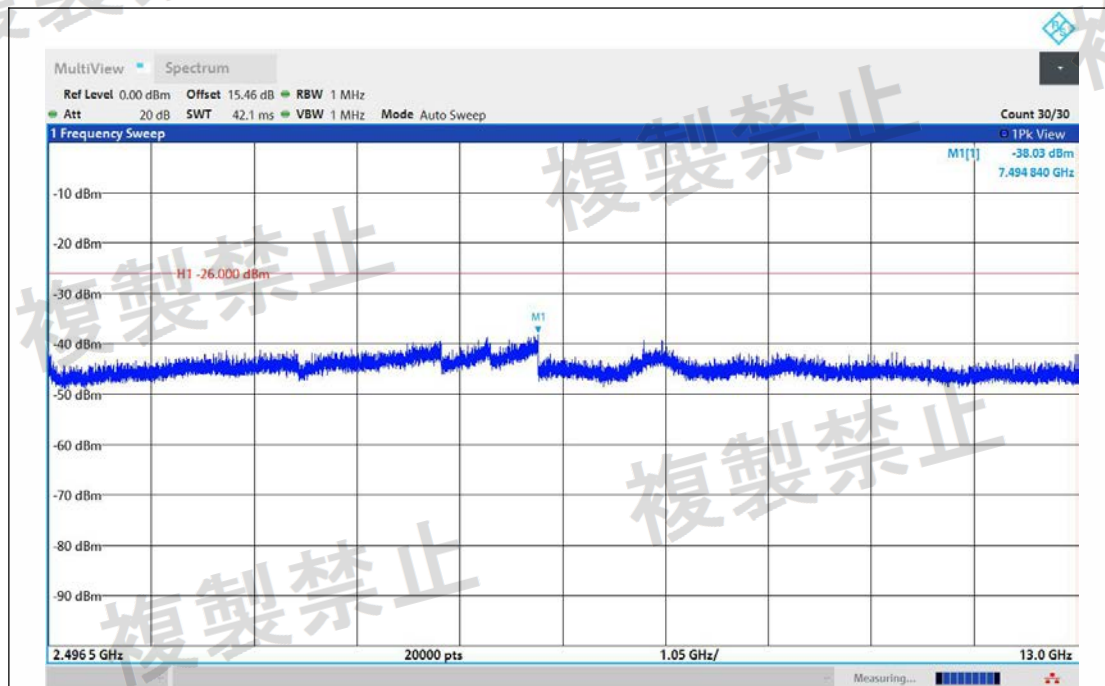
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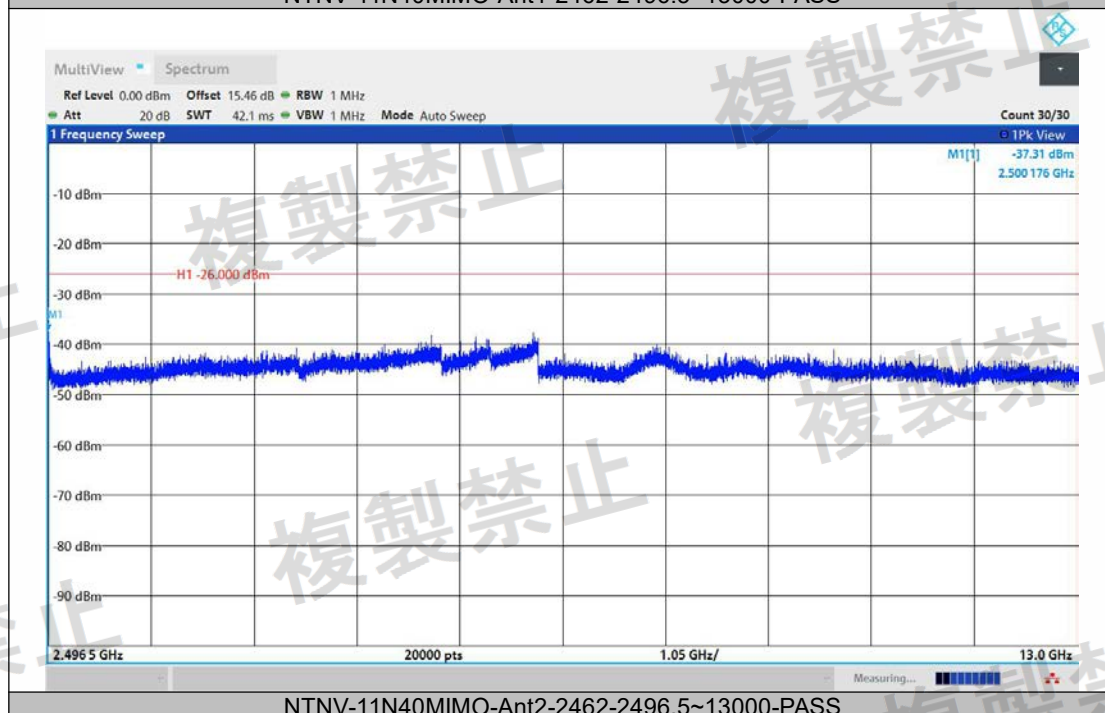
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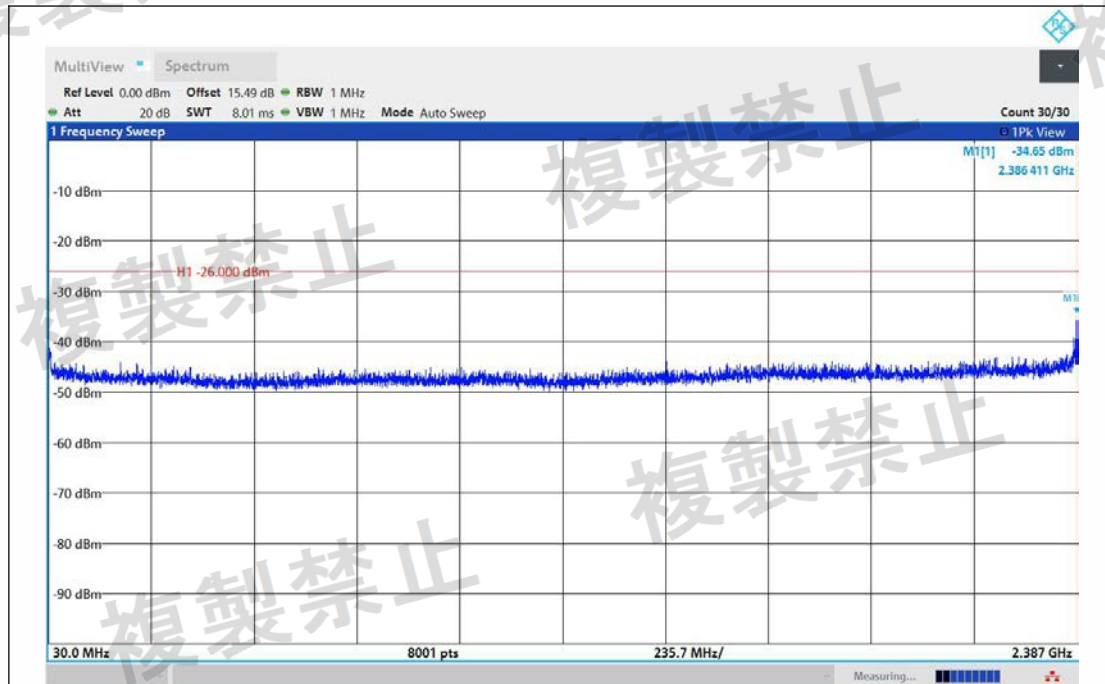
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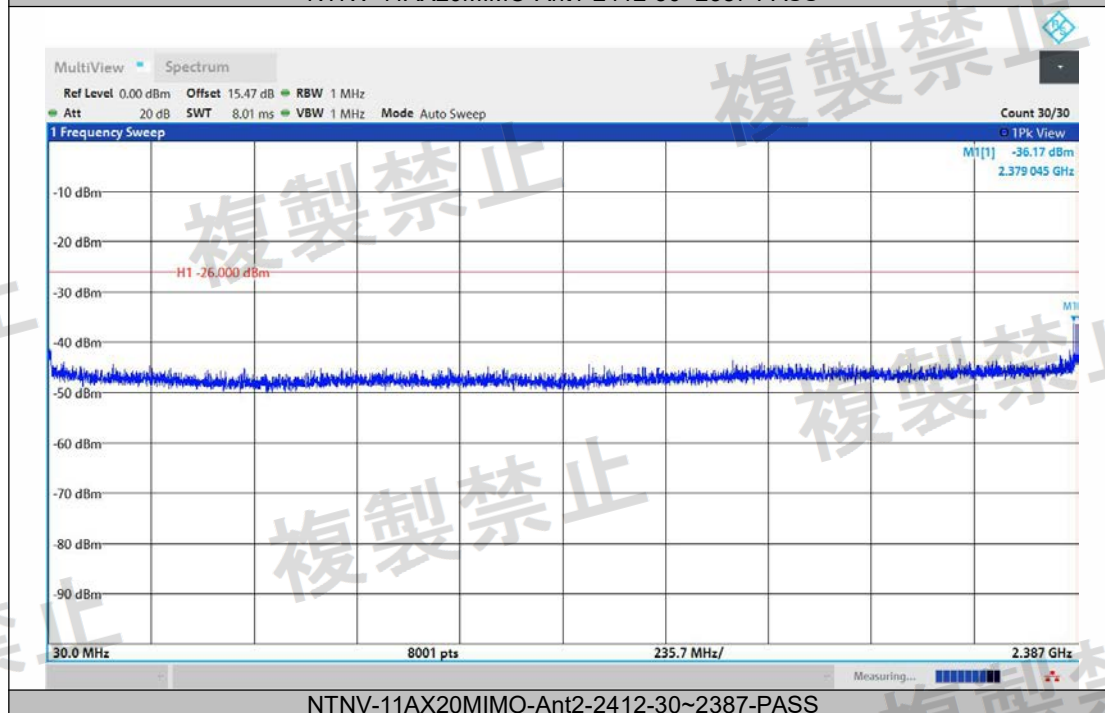
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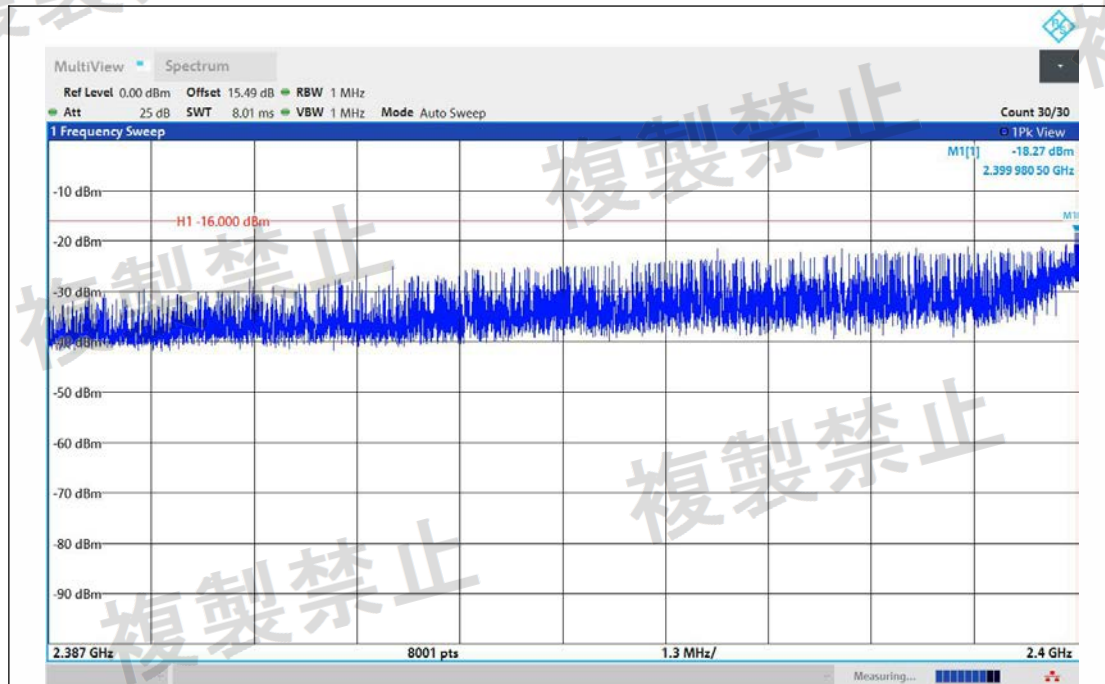
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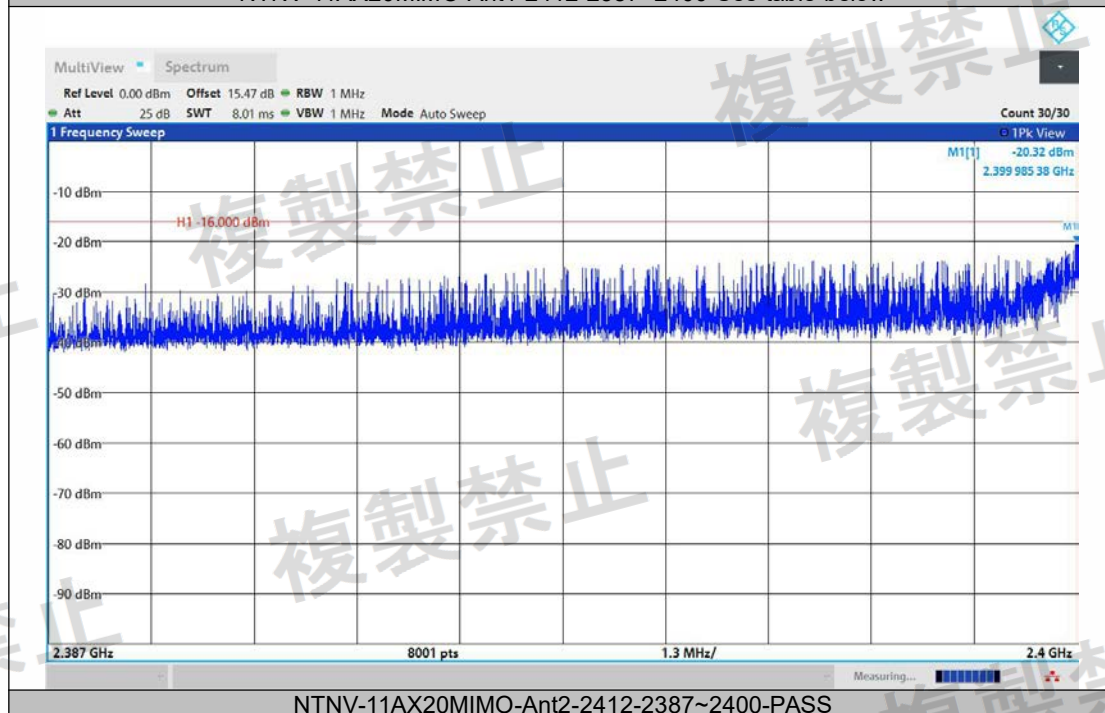
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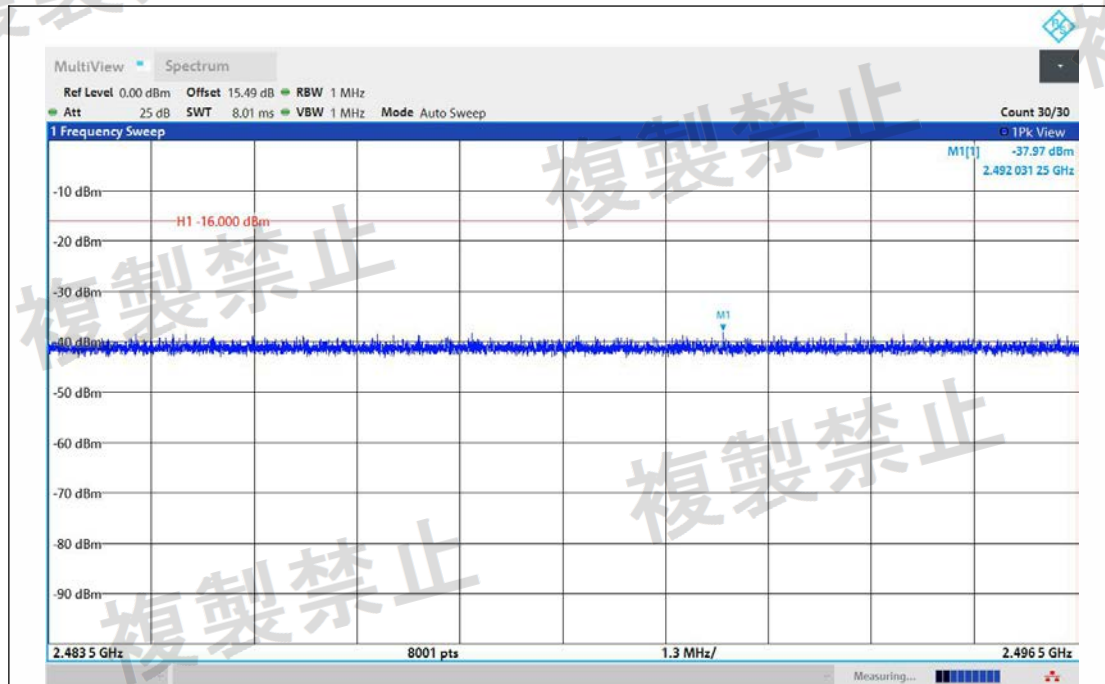
NTNV-11AX20MIMO-Ant2-2412-30~2387-PASS



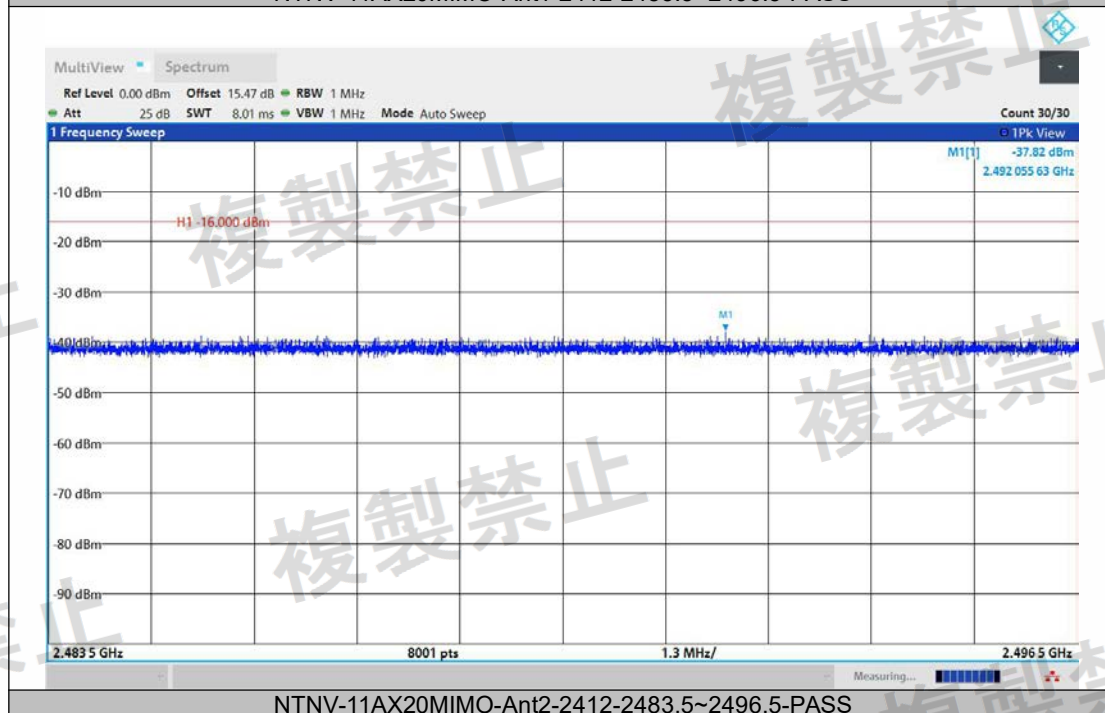
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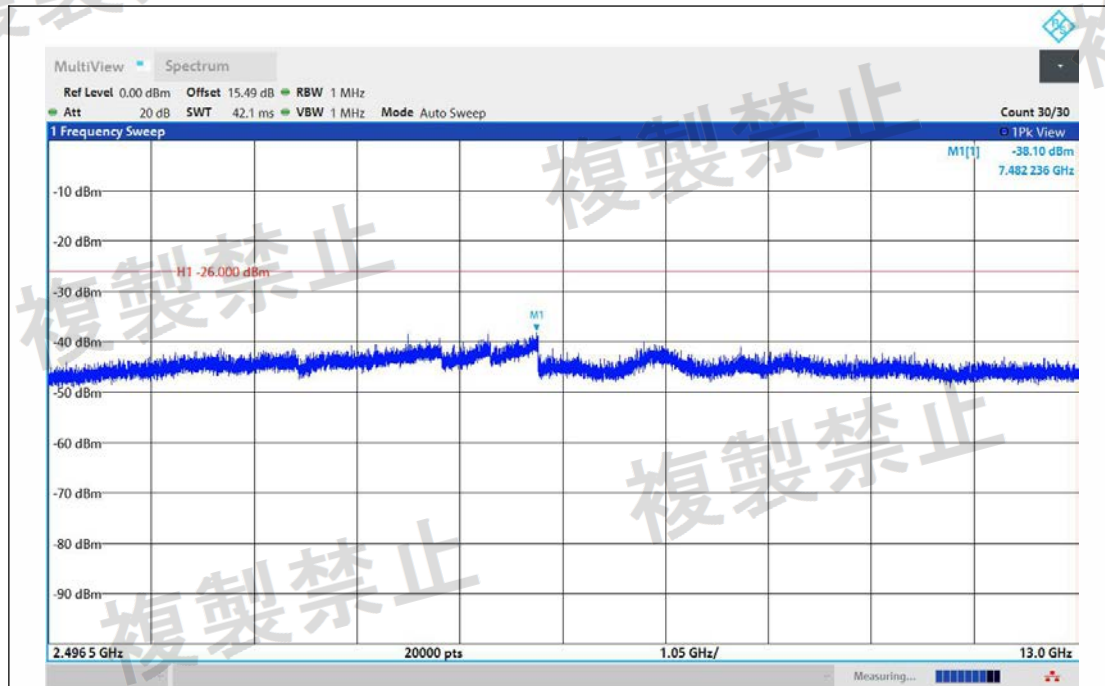
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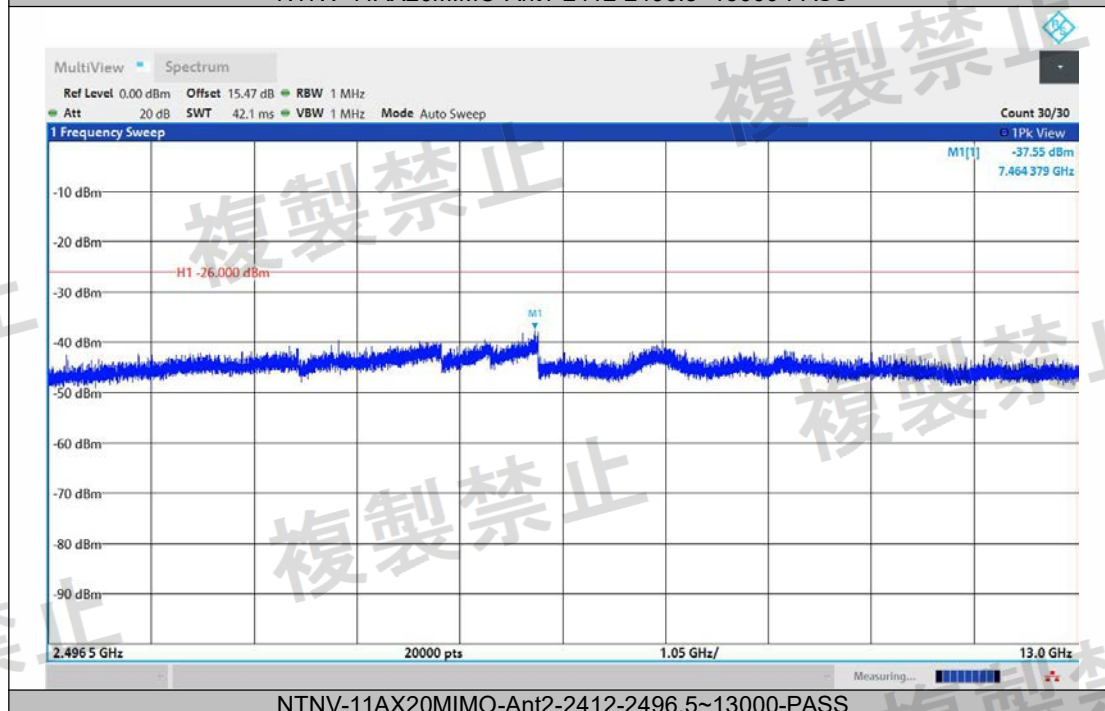
NTNV-11AX20MIMO-Ant1-2412-2483.5~2496.5-PASS



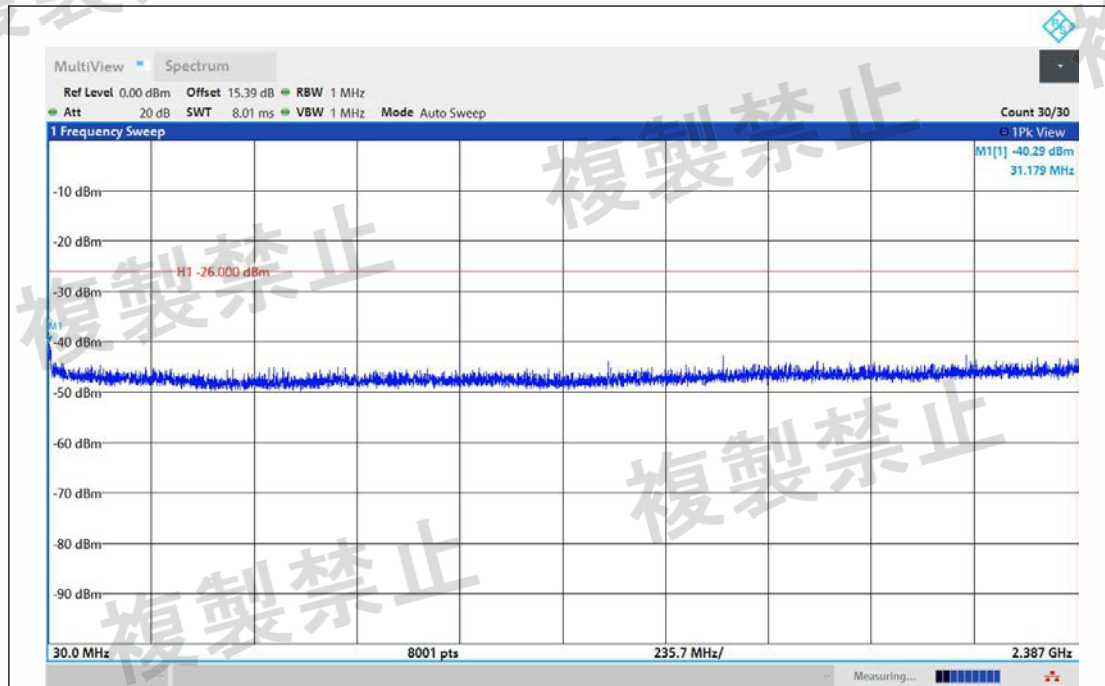
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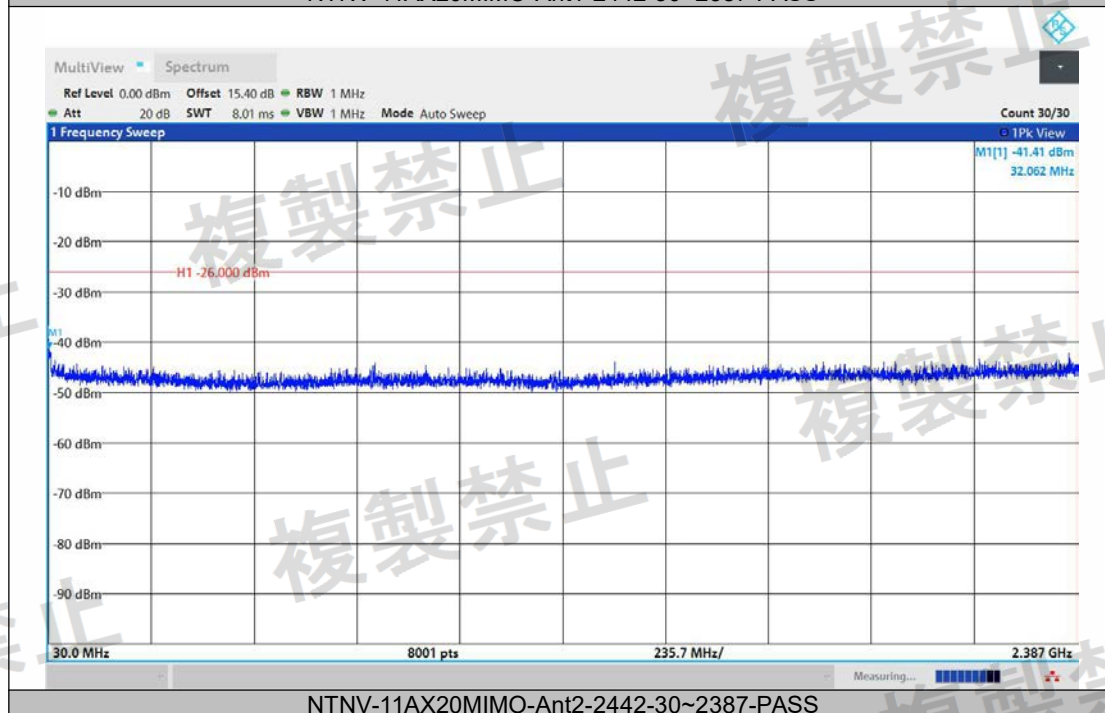
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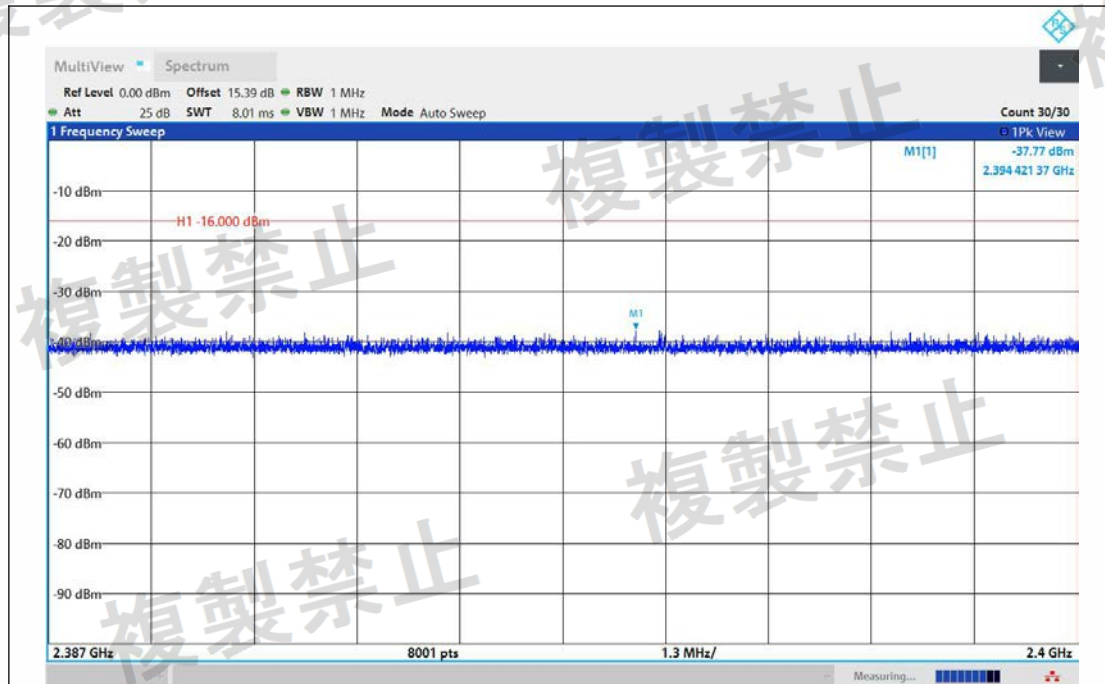
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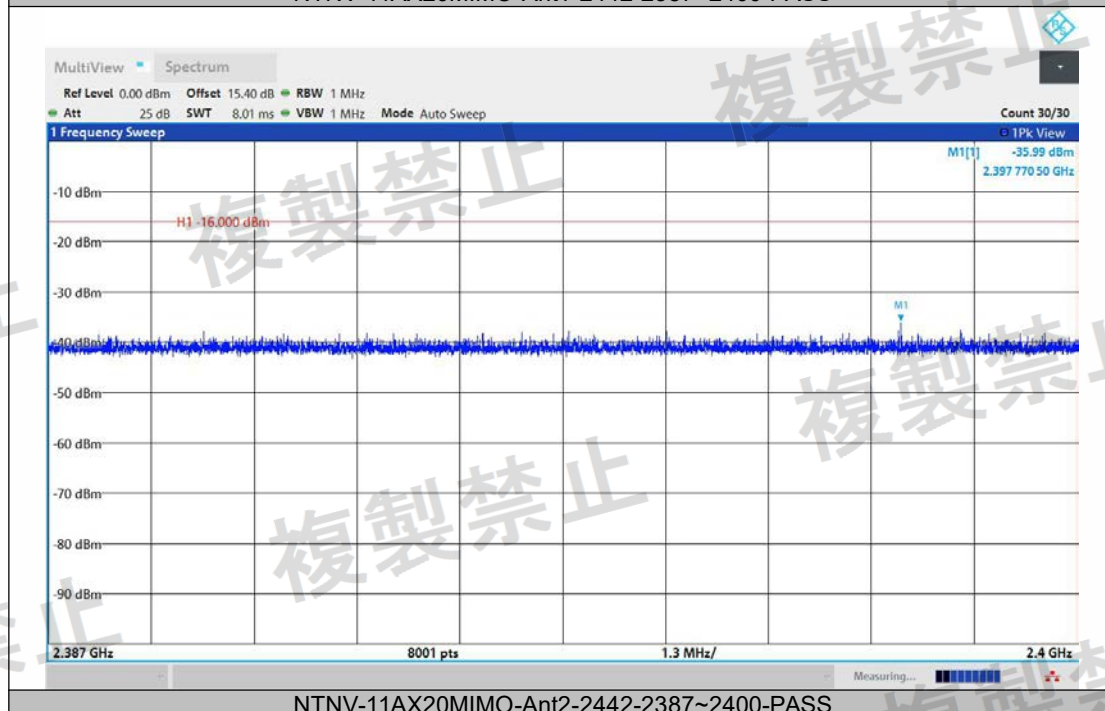
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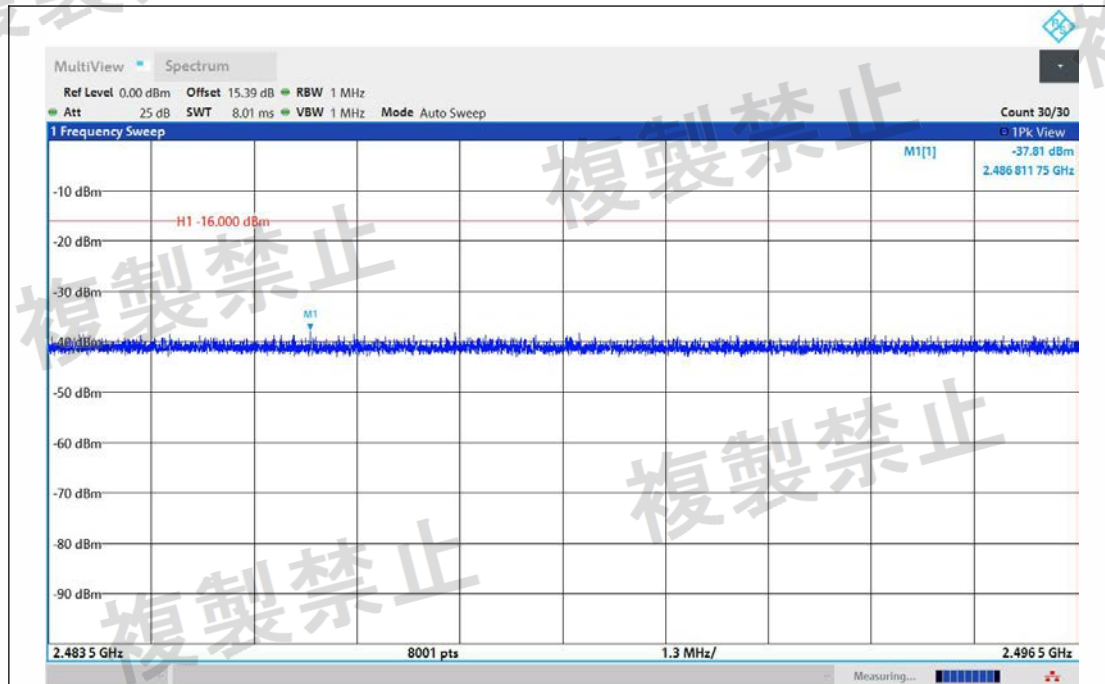
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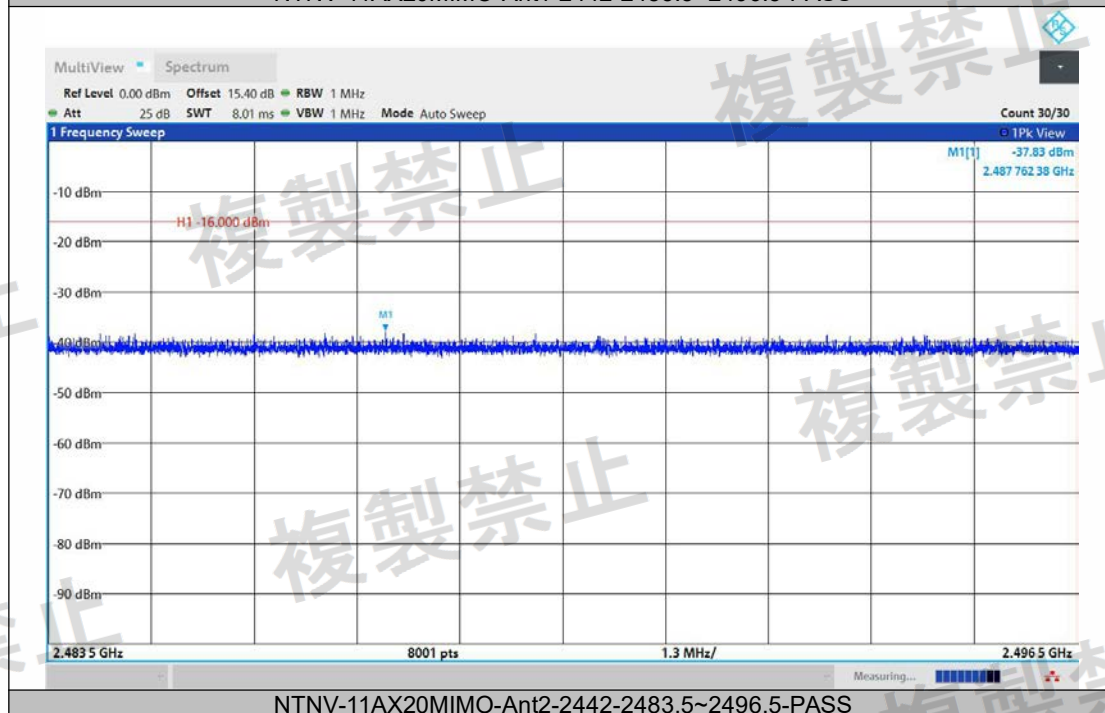
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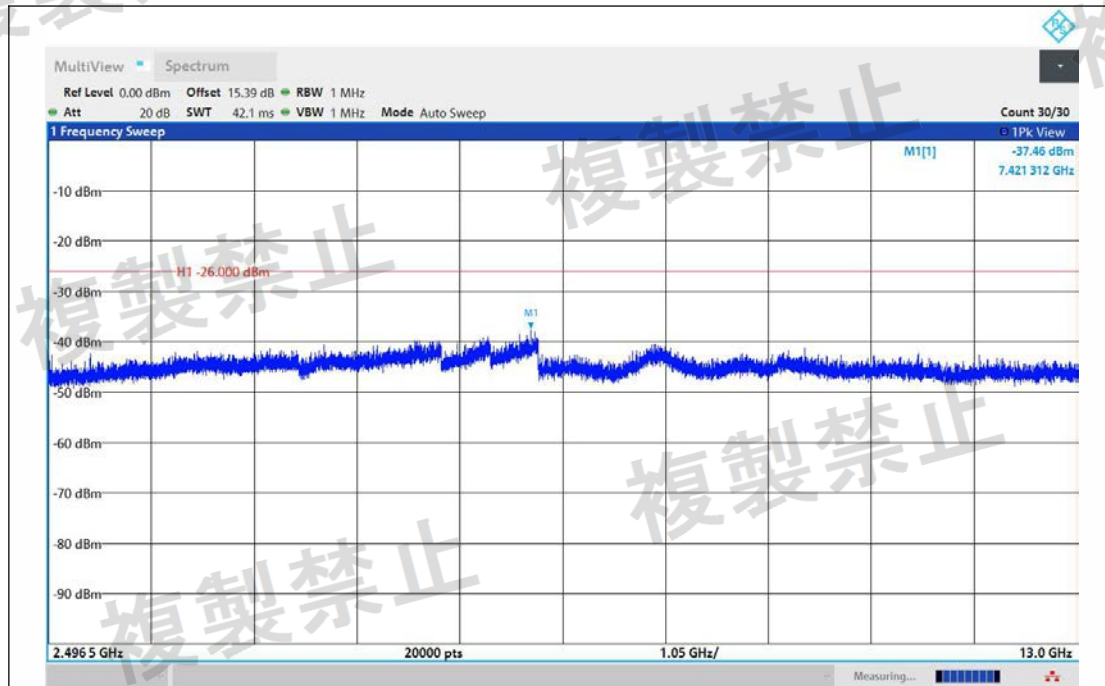
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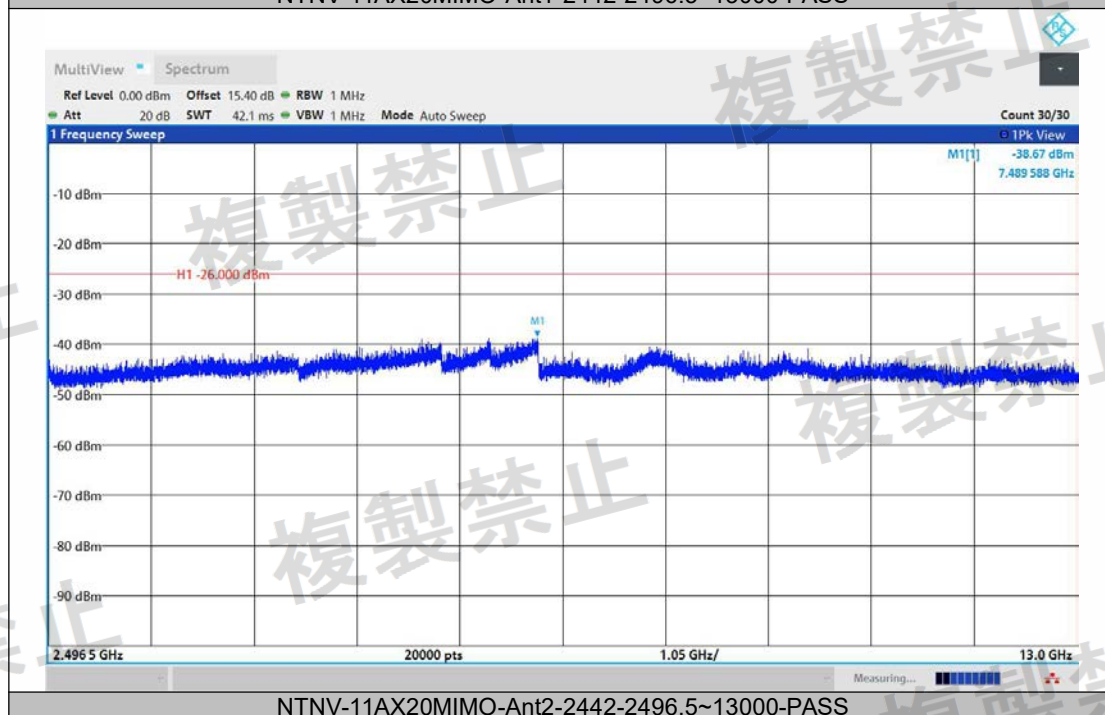
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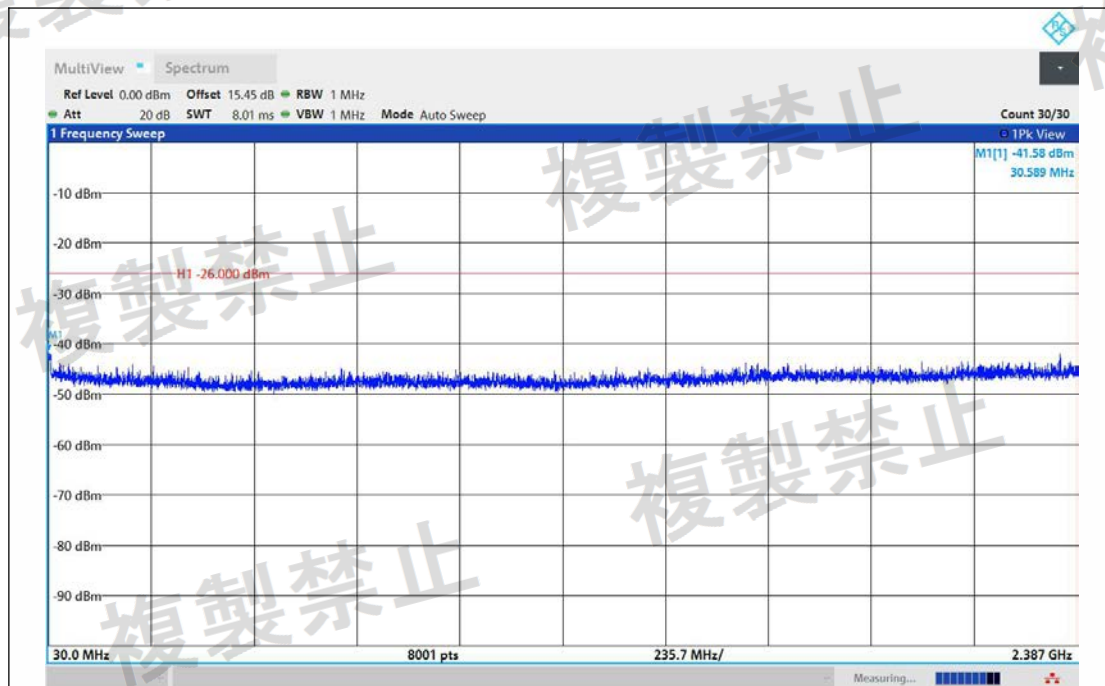
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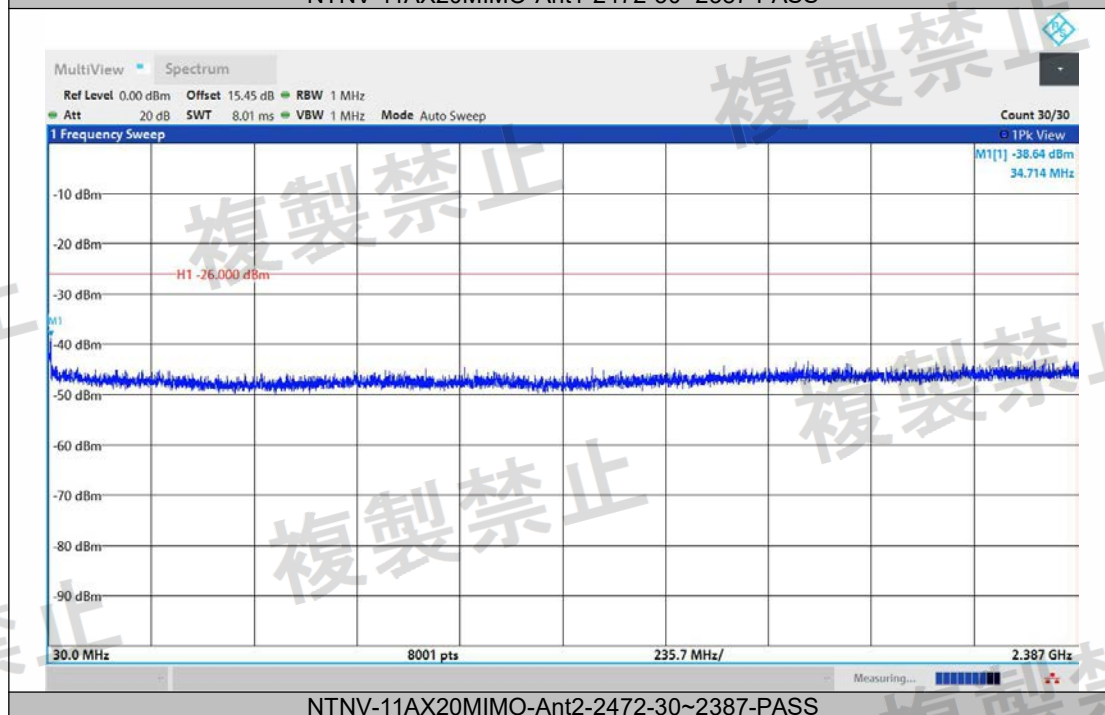
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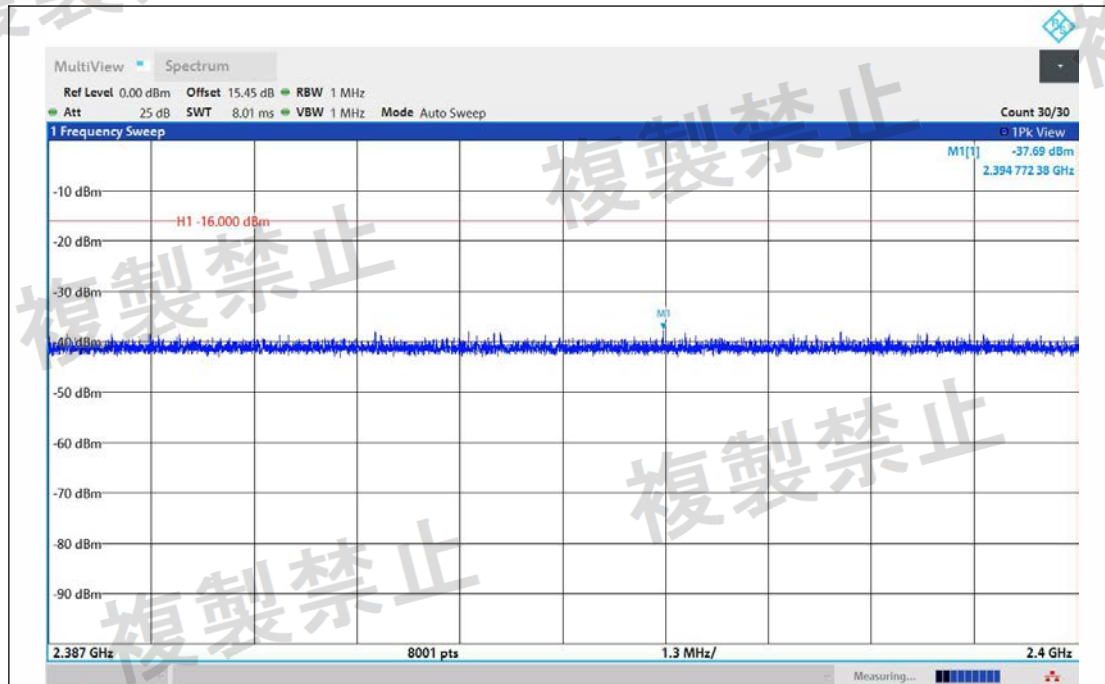
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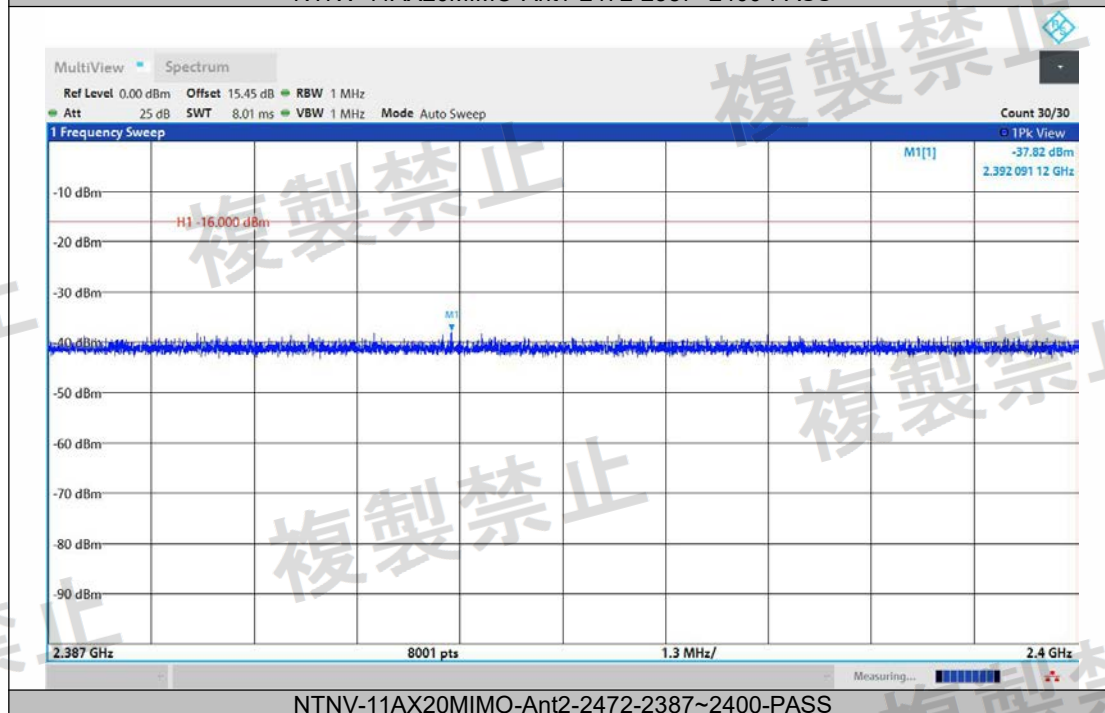
NTNV-11AX20MIMO-Ant1-2472-30~2387-PASS



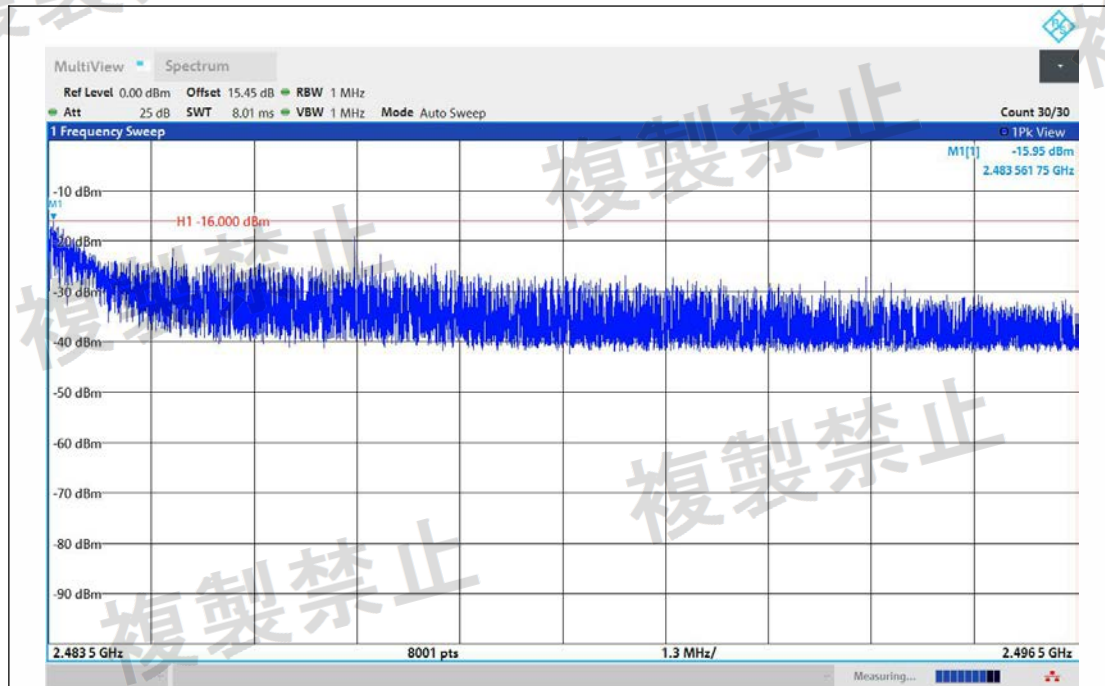
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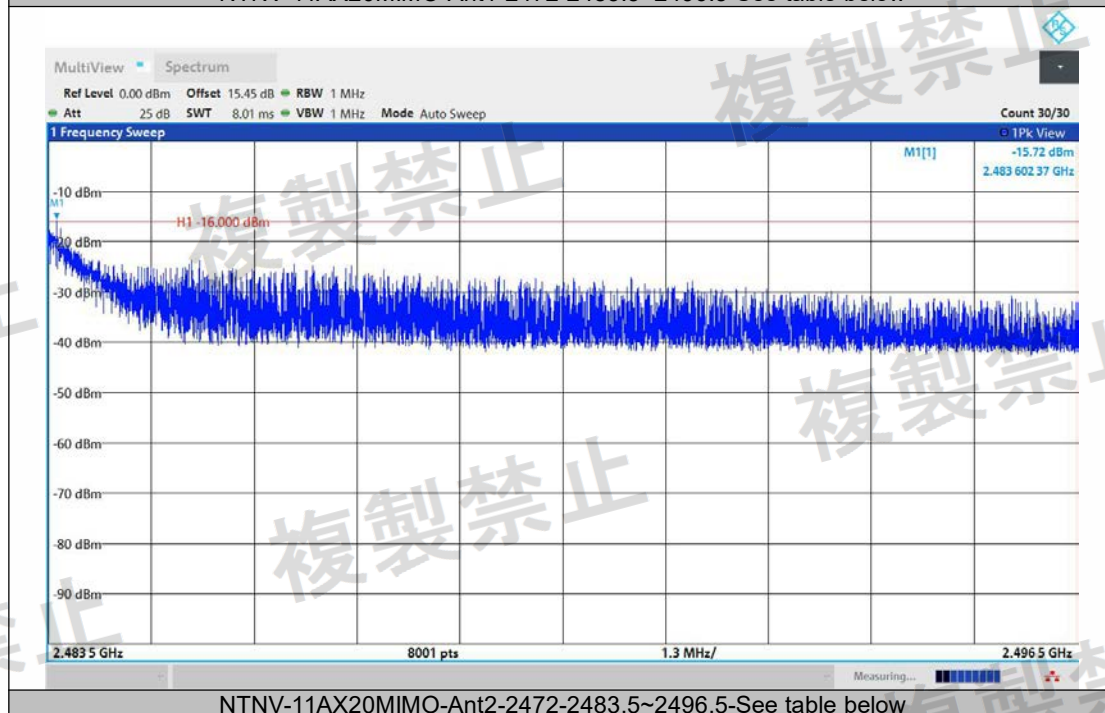
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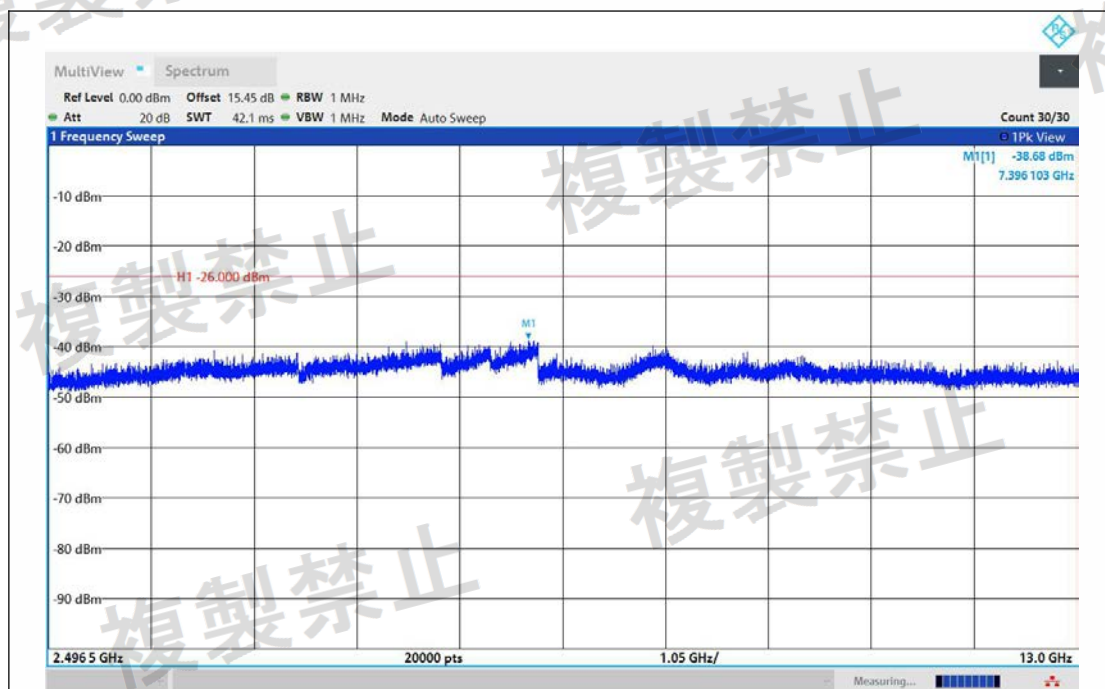
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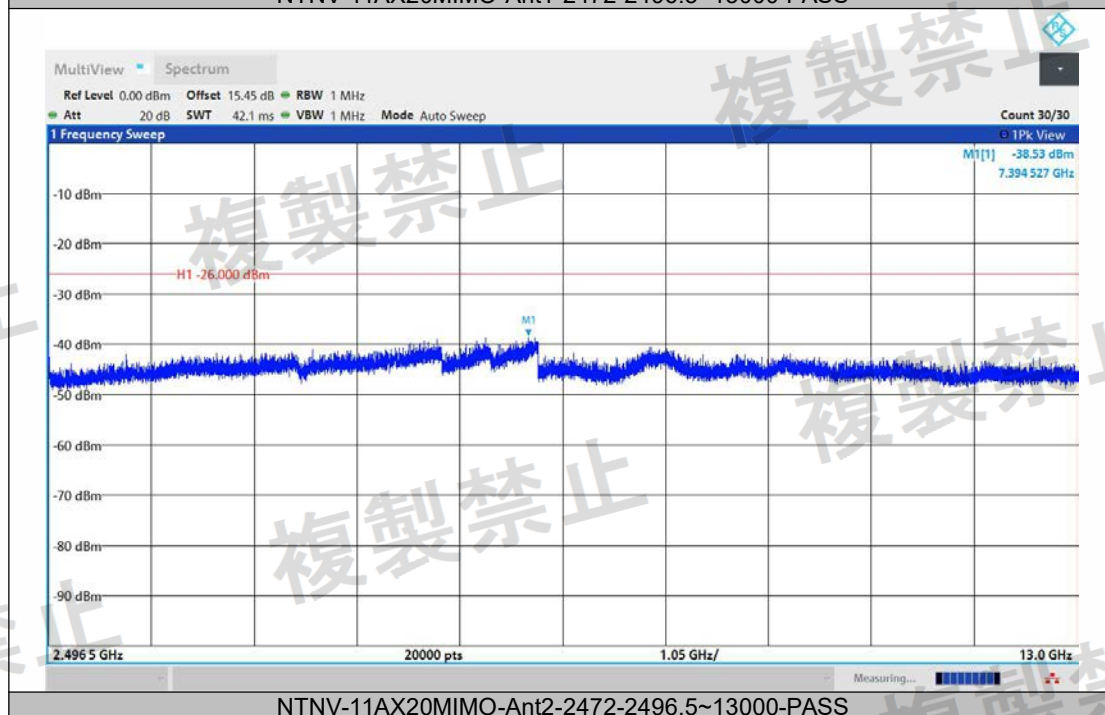
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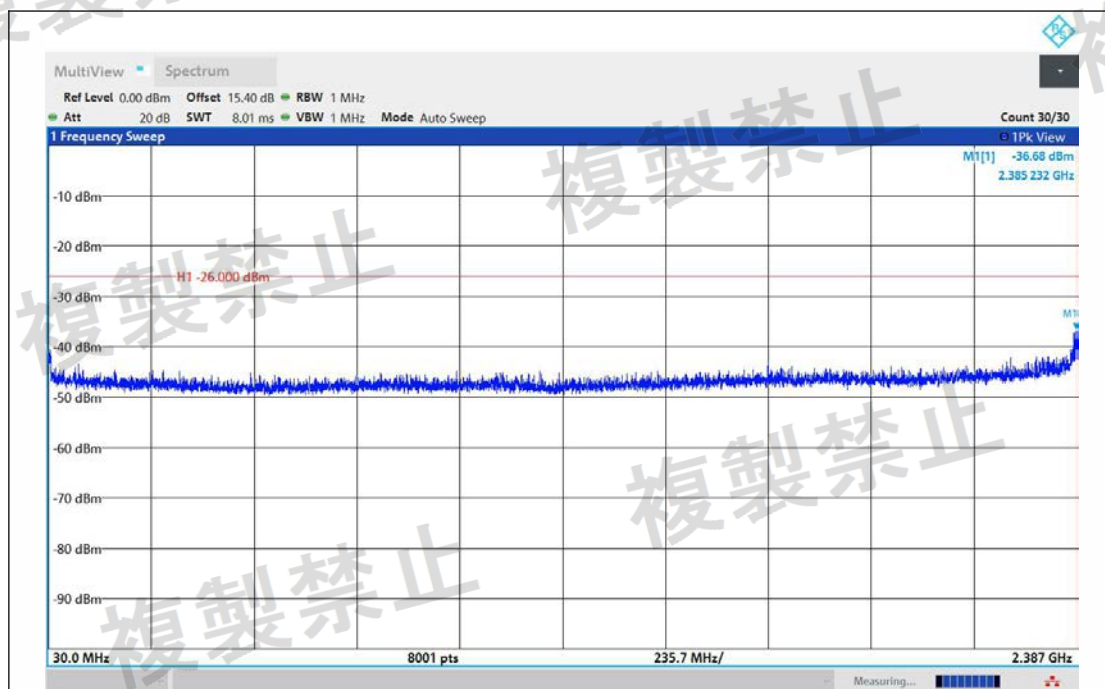
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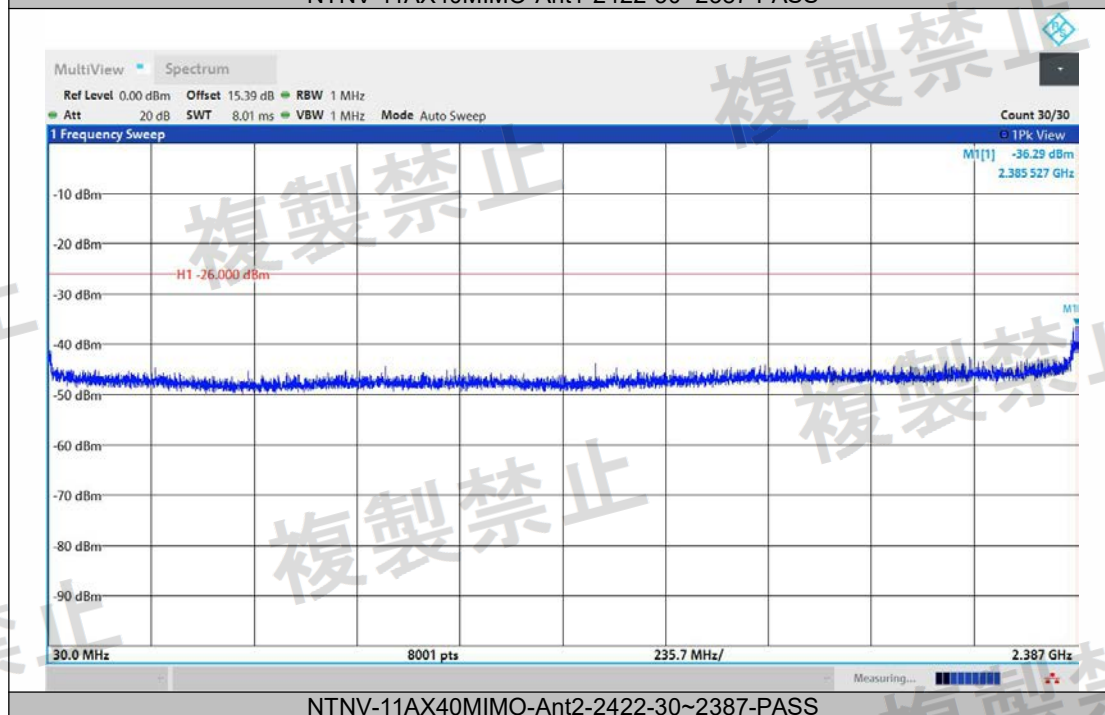
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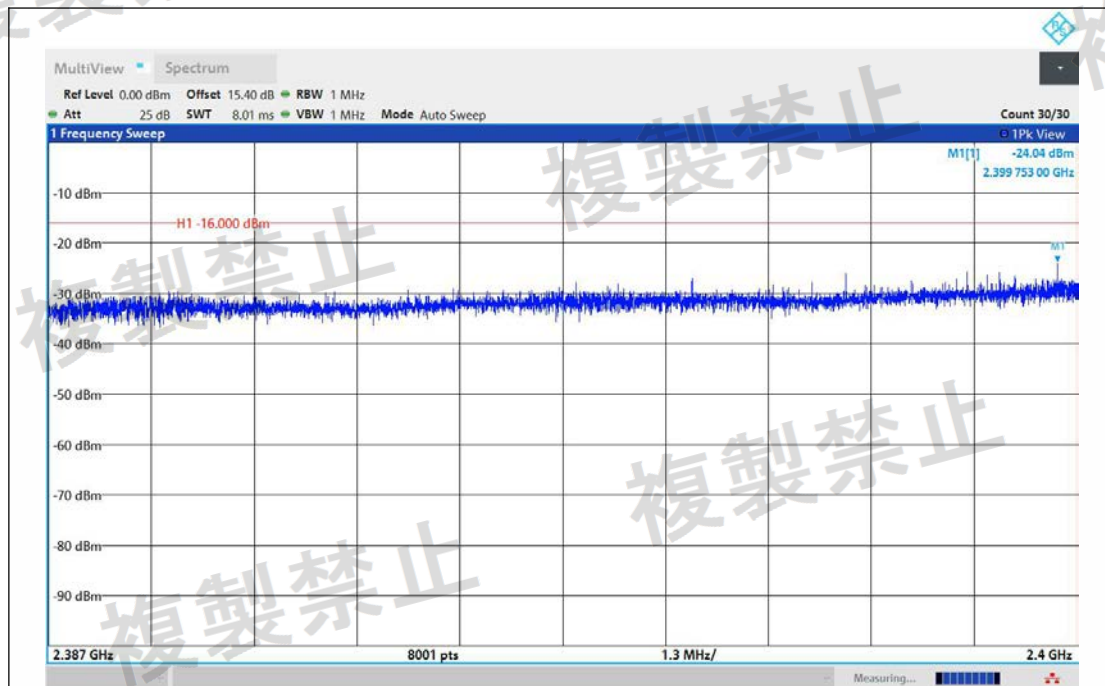
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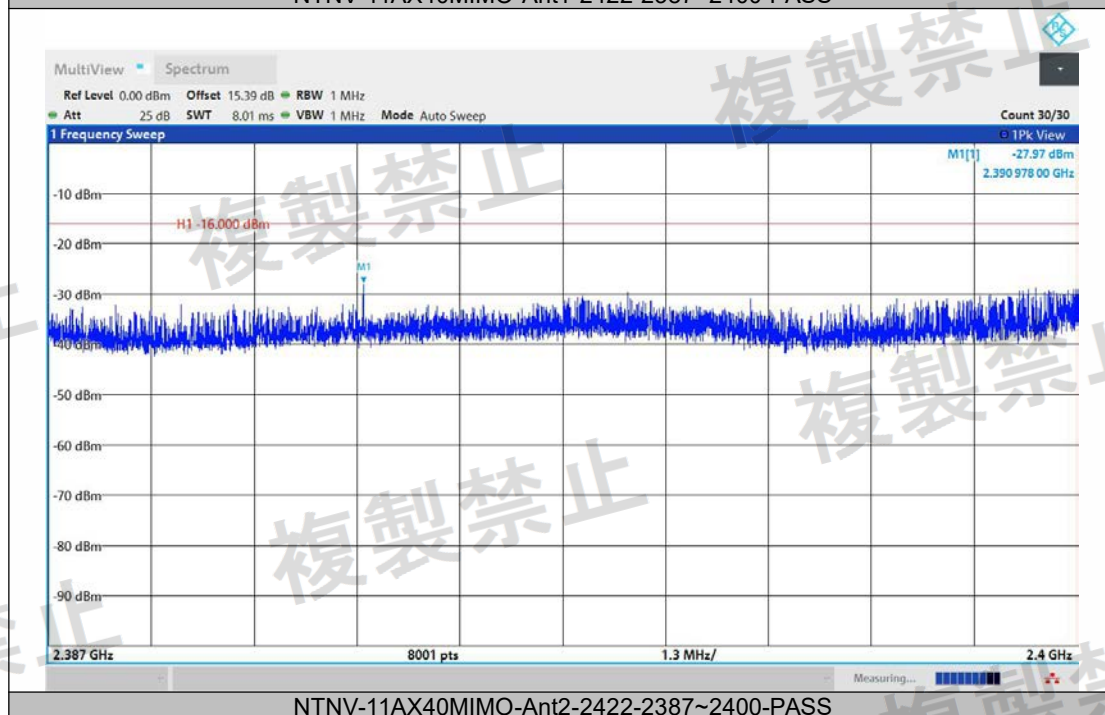
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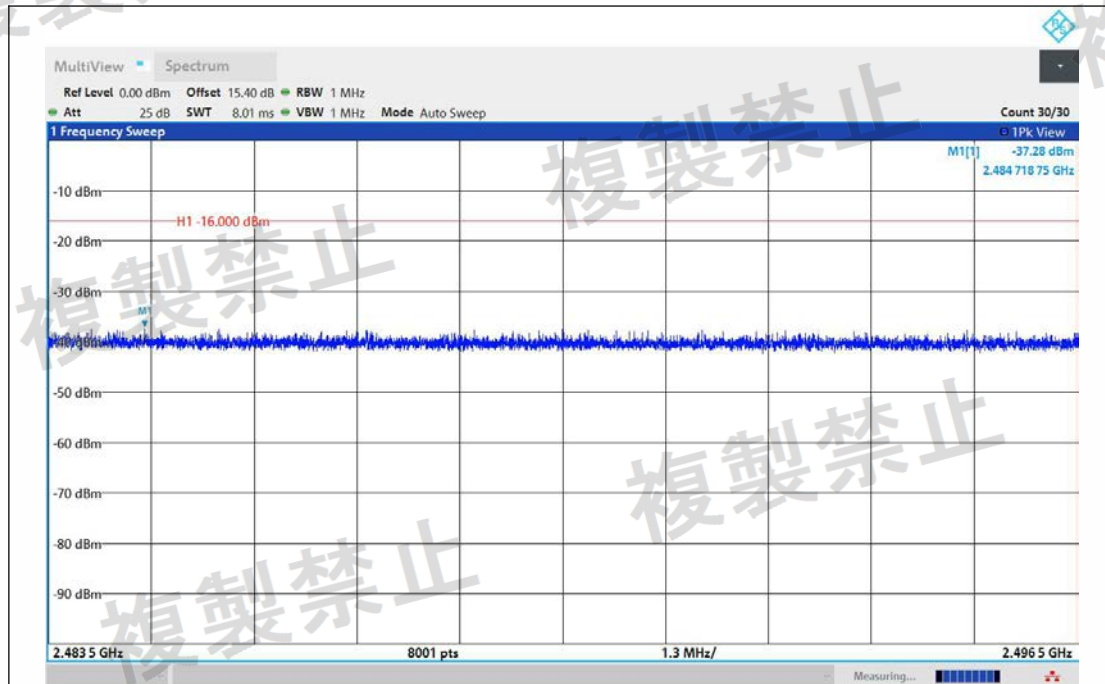
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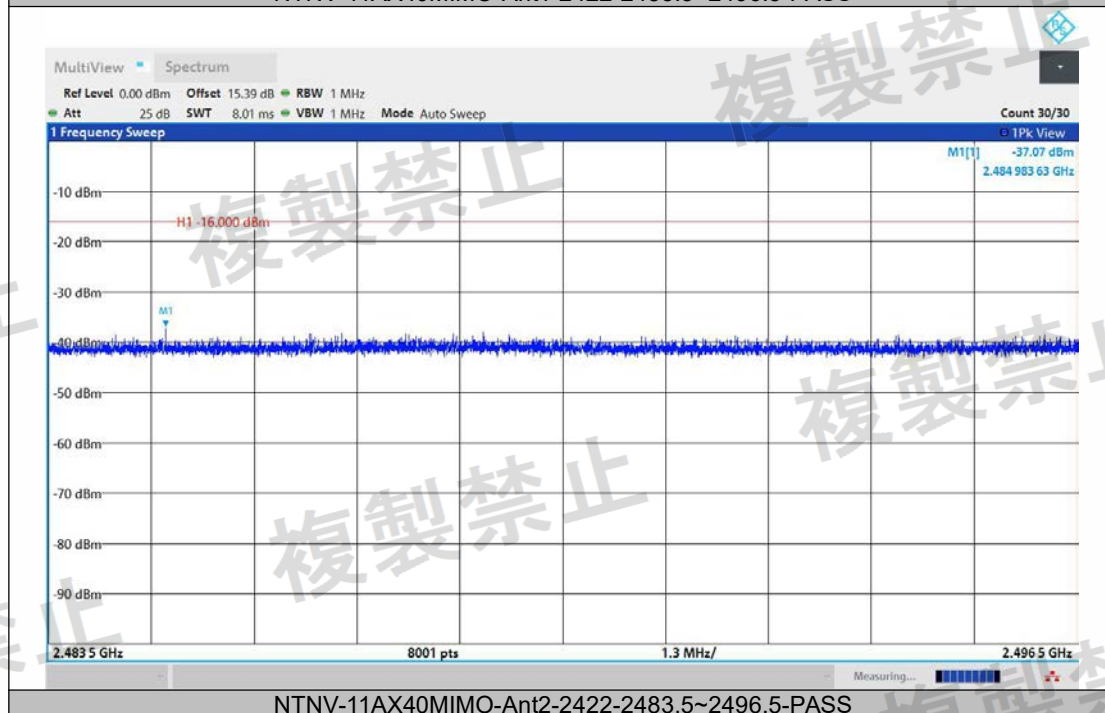
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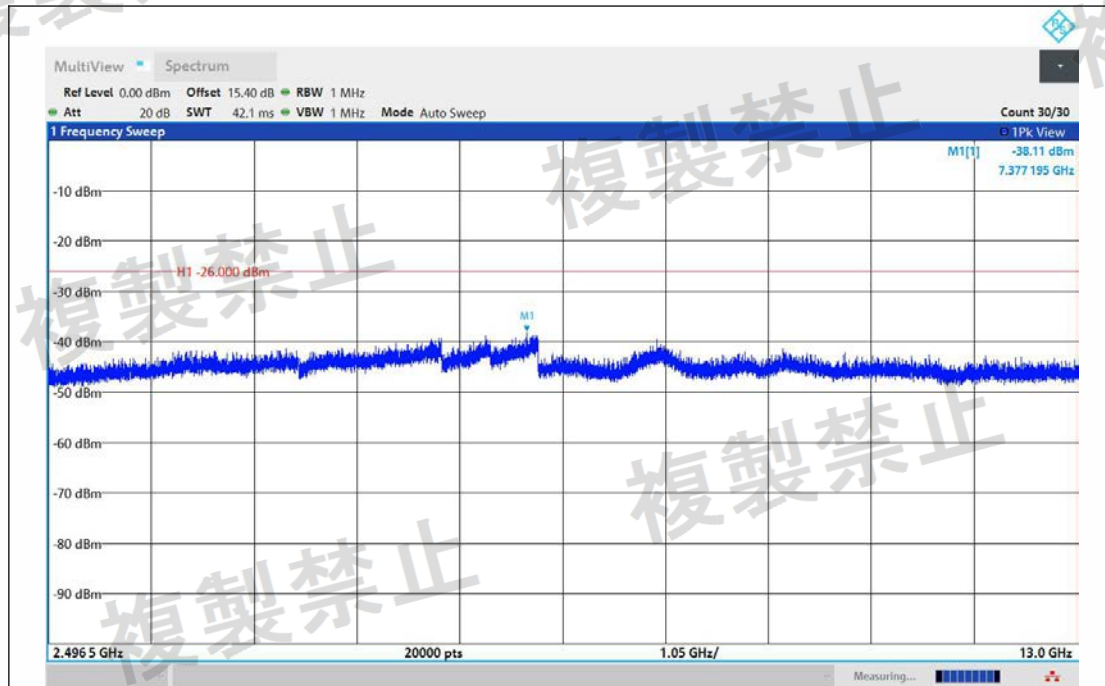
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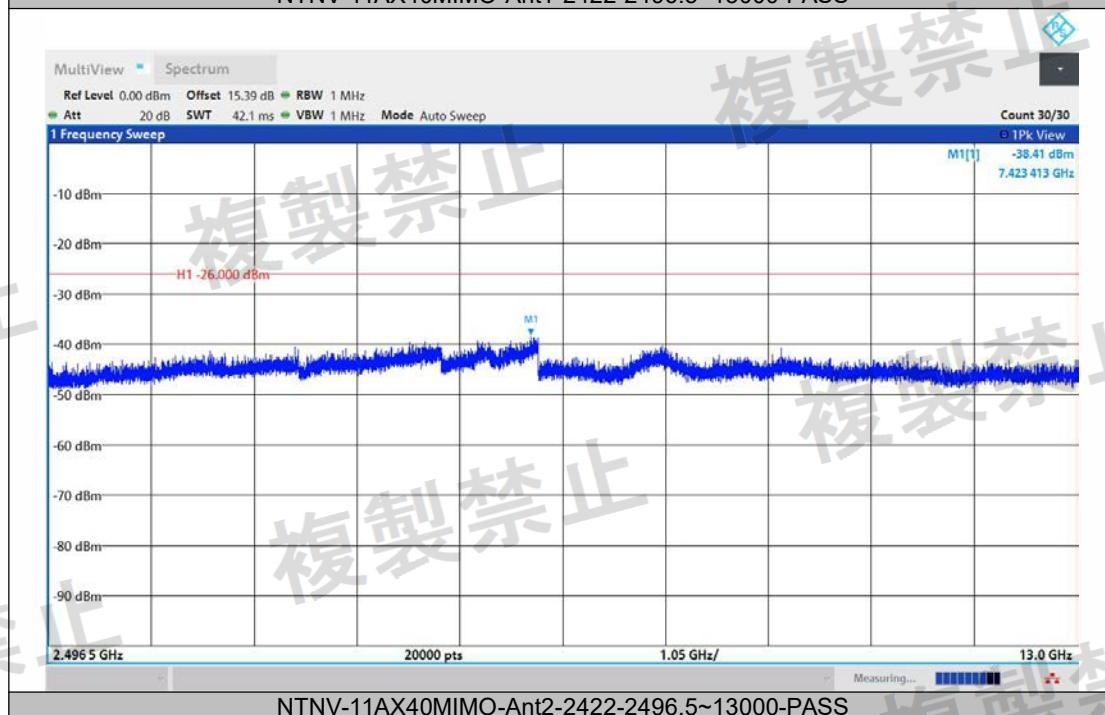
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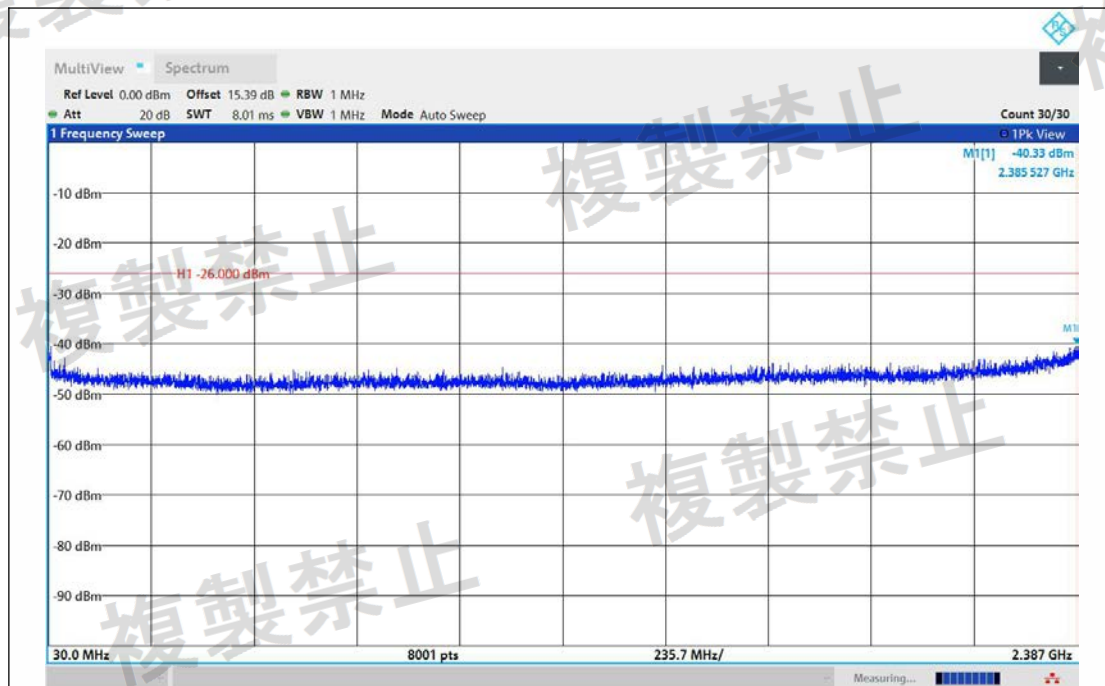
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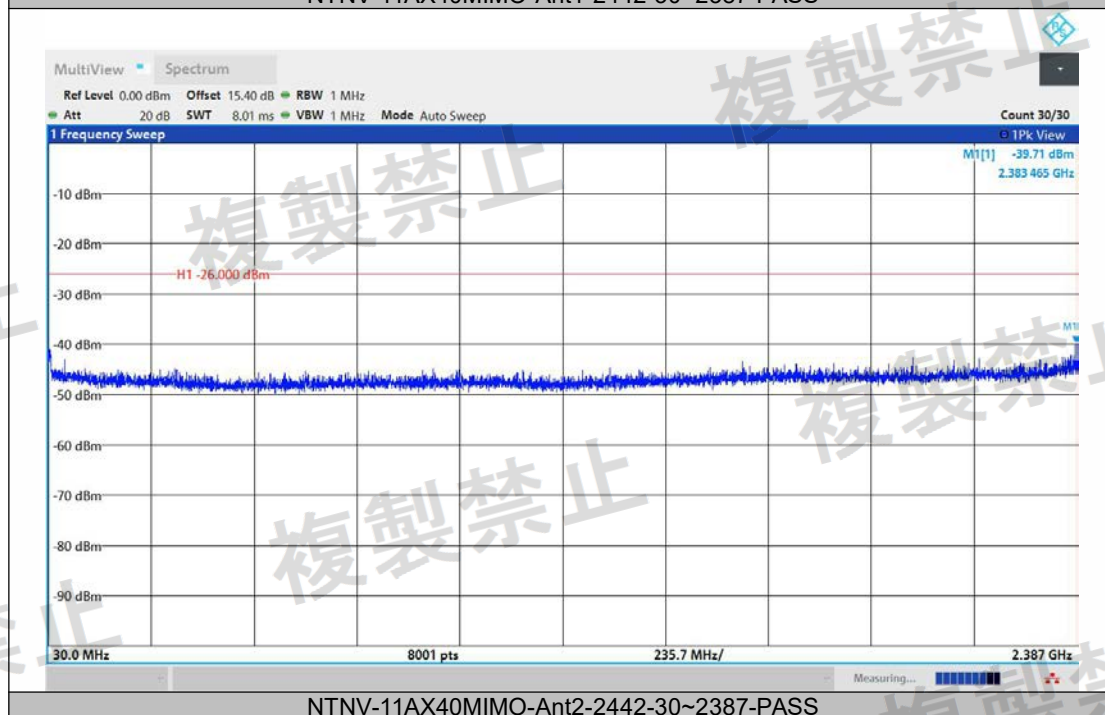
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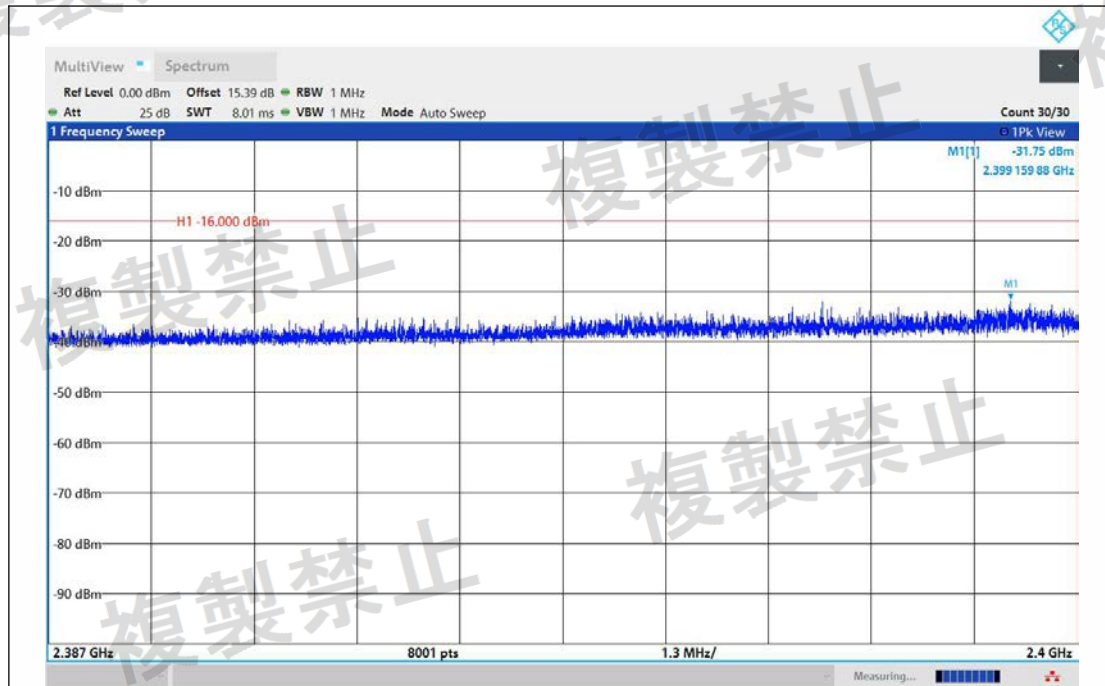
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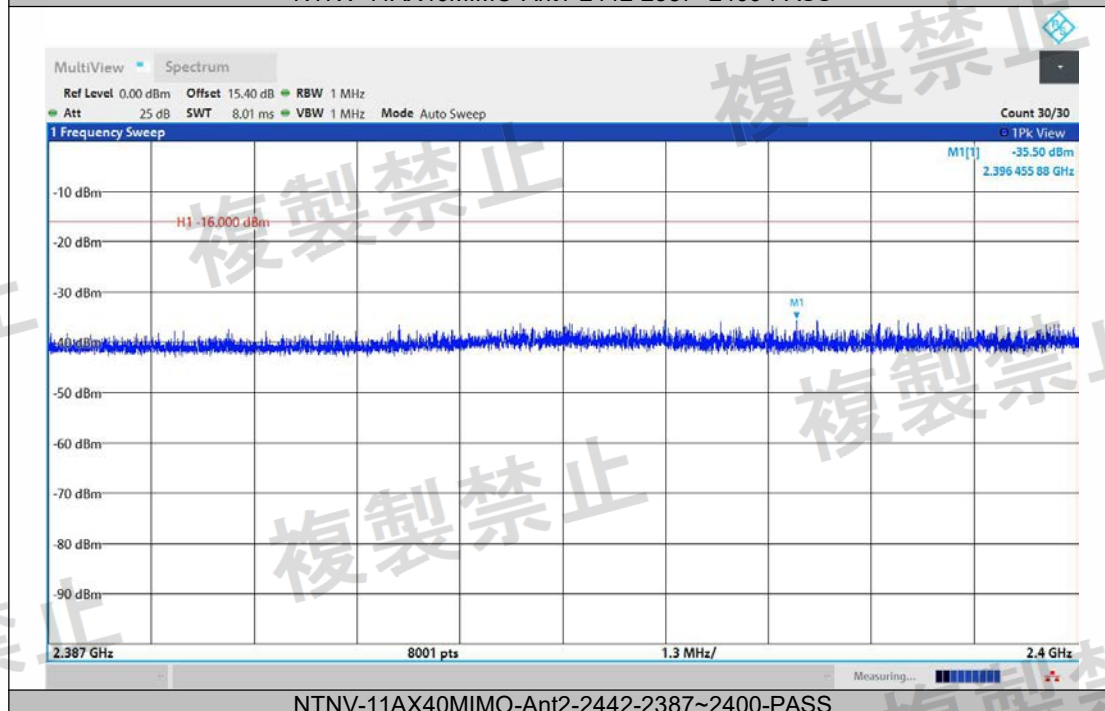
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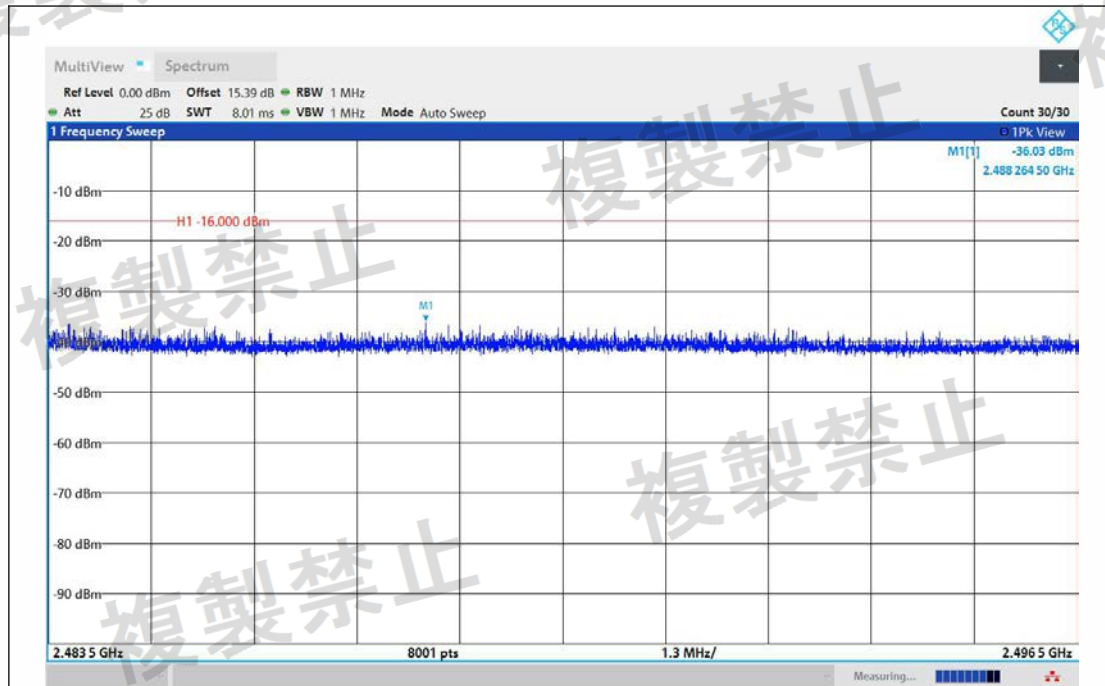
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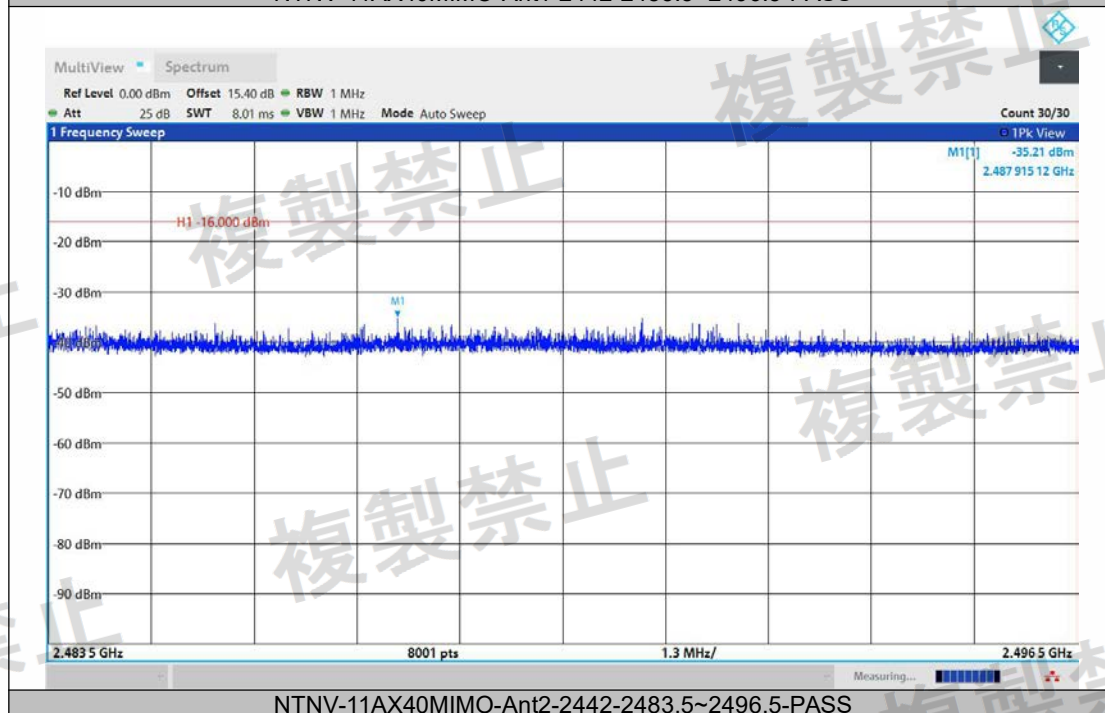
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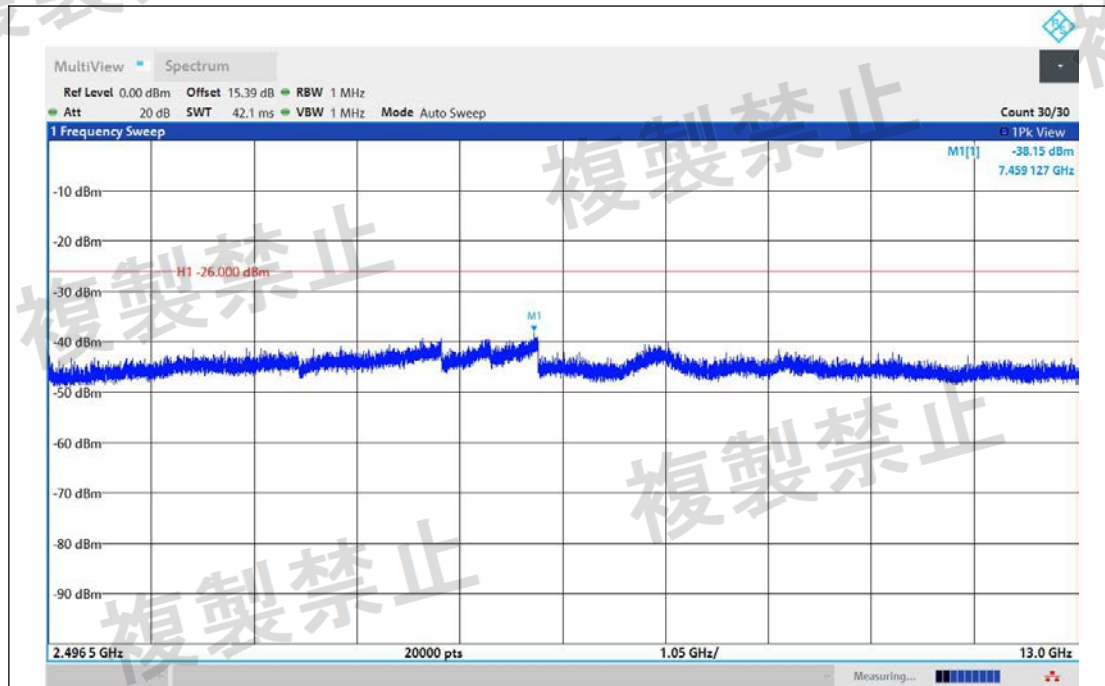
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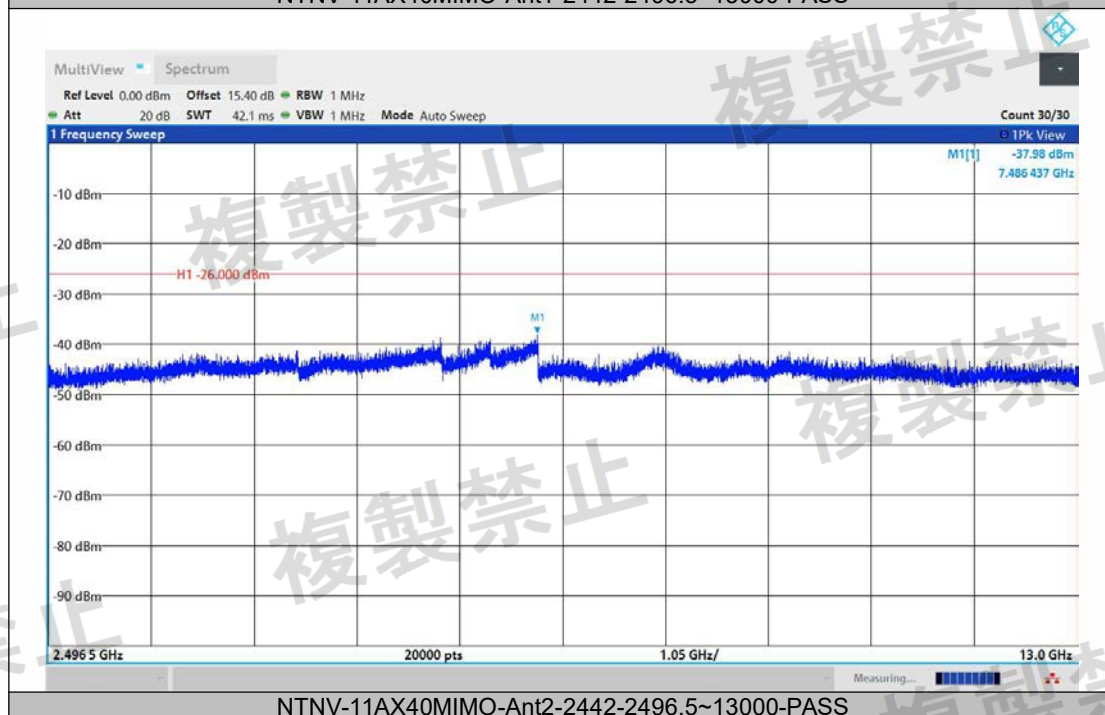
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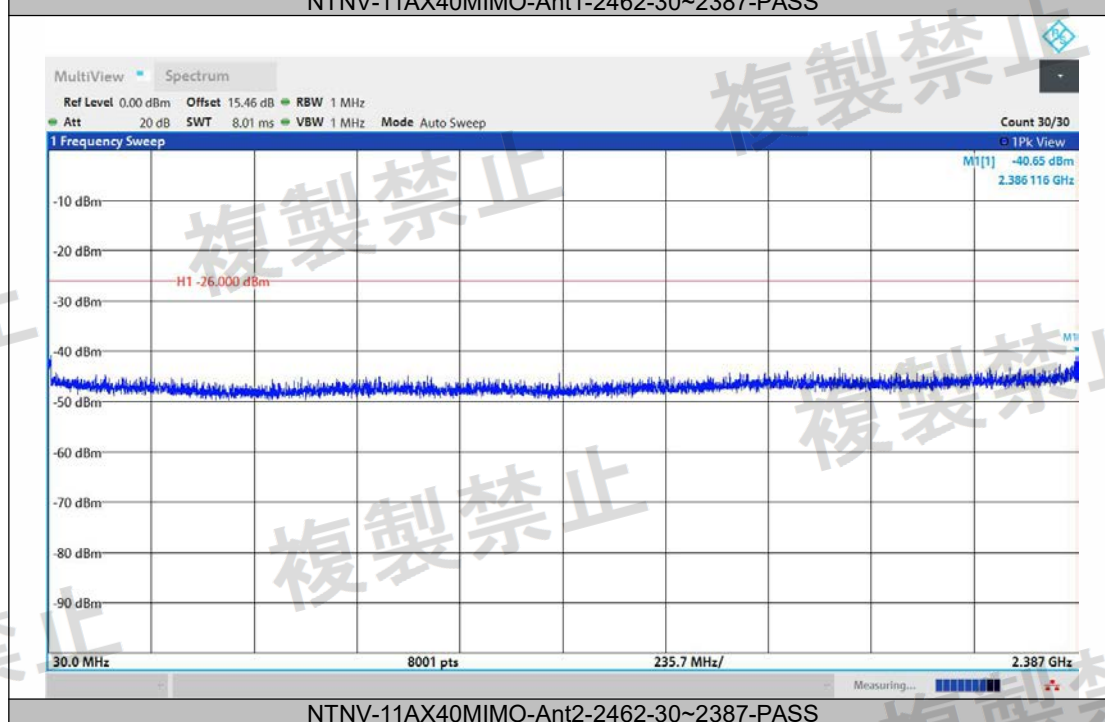
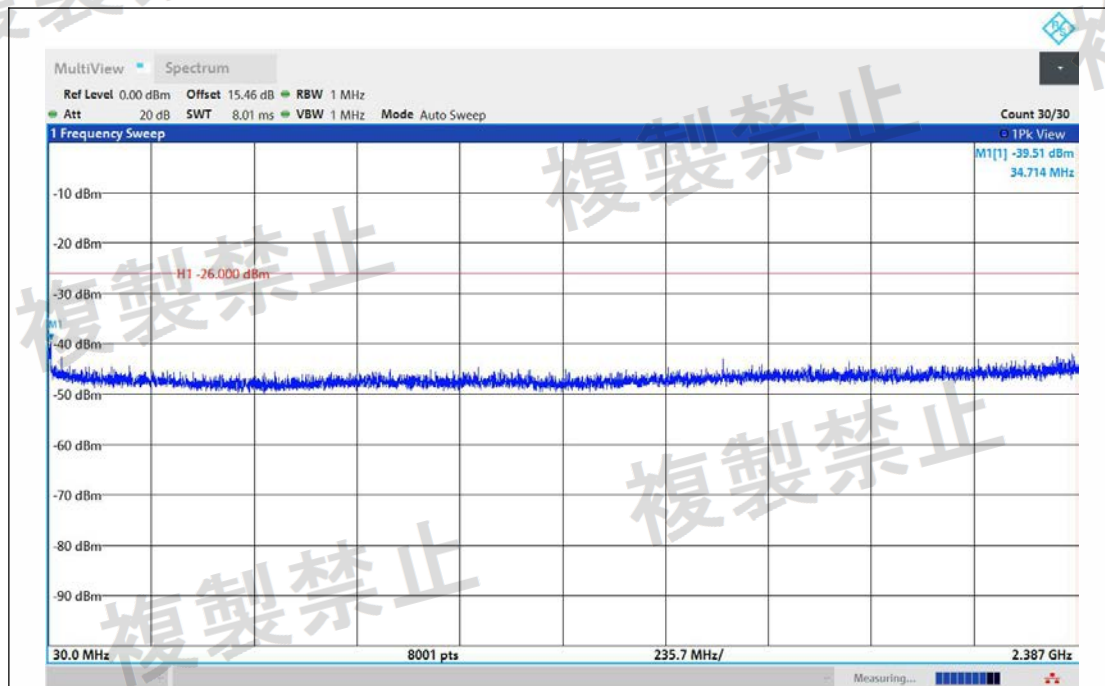
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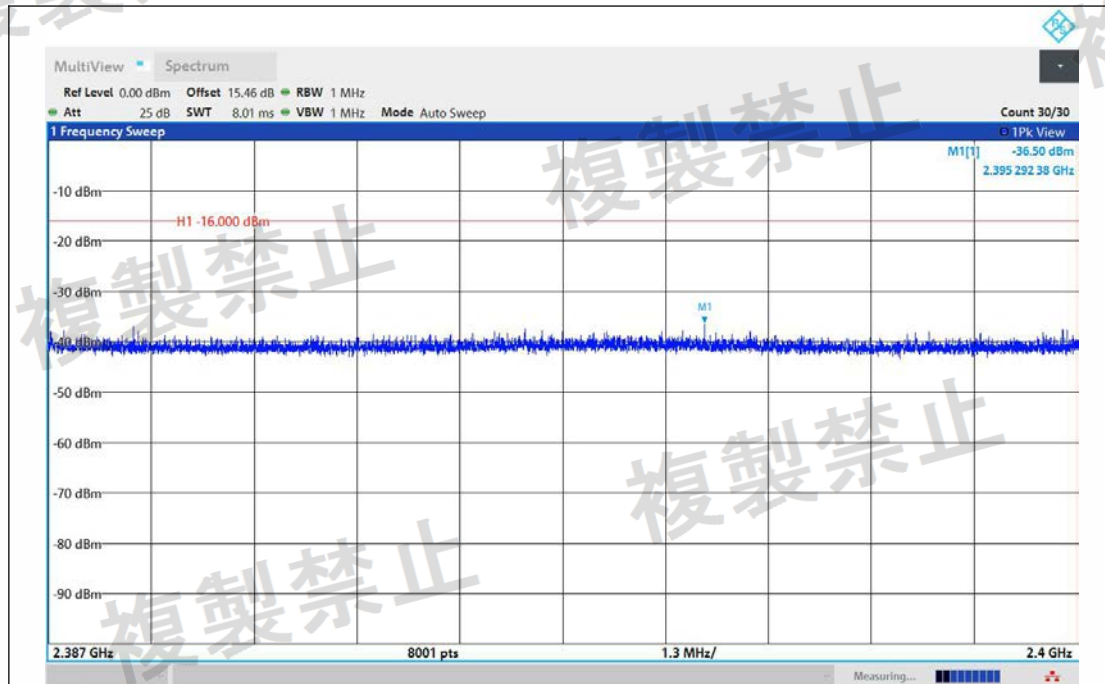


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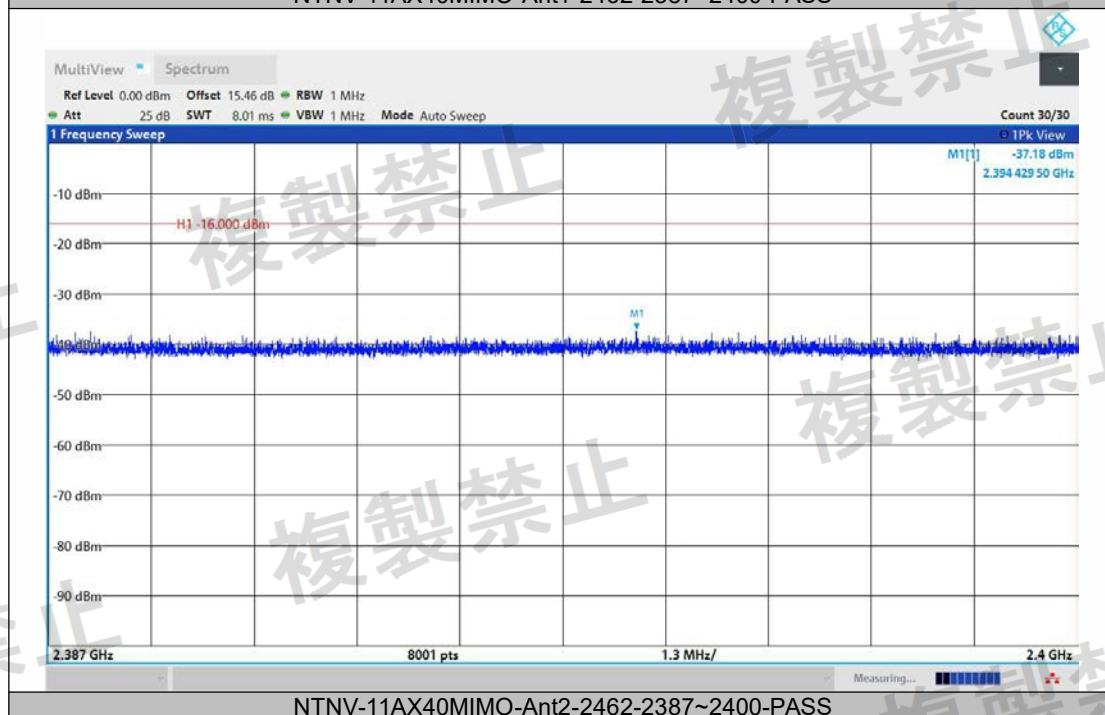


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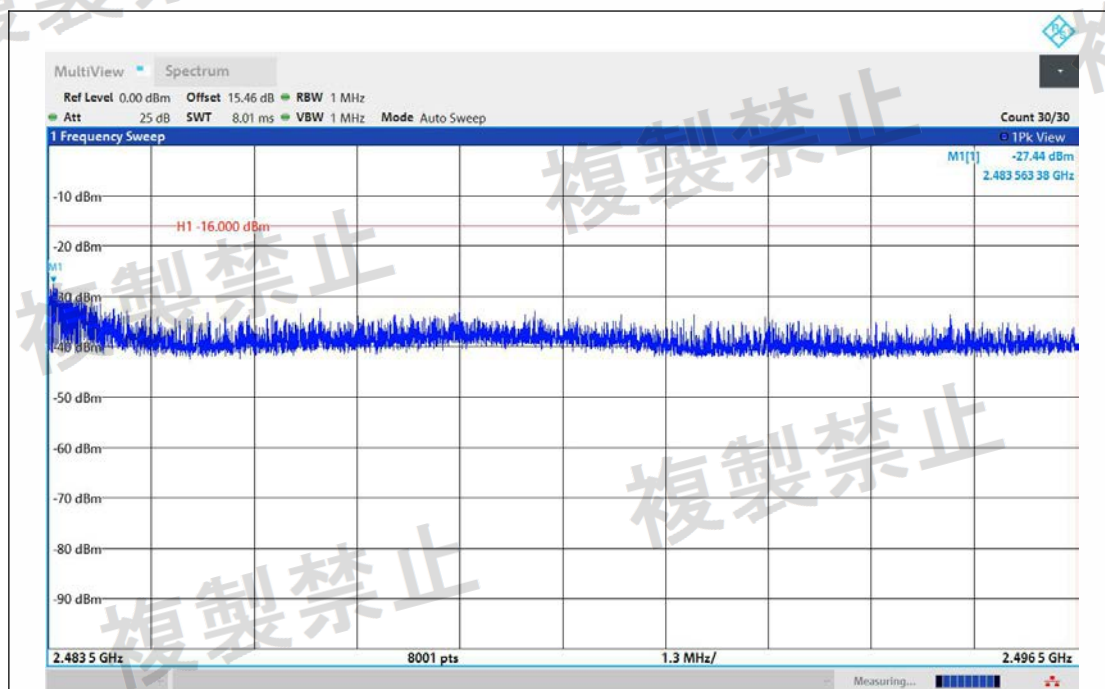




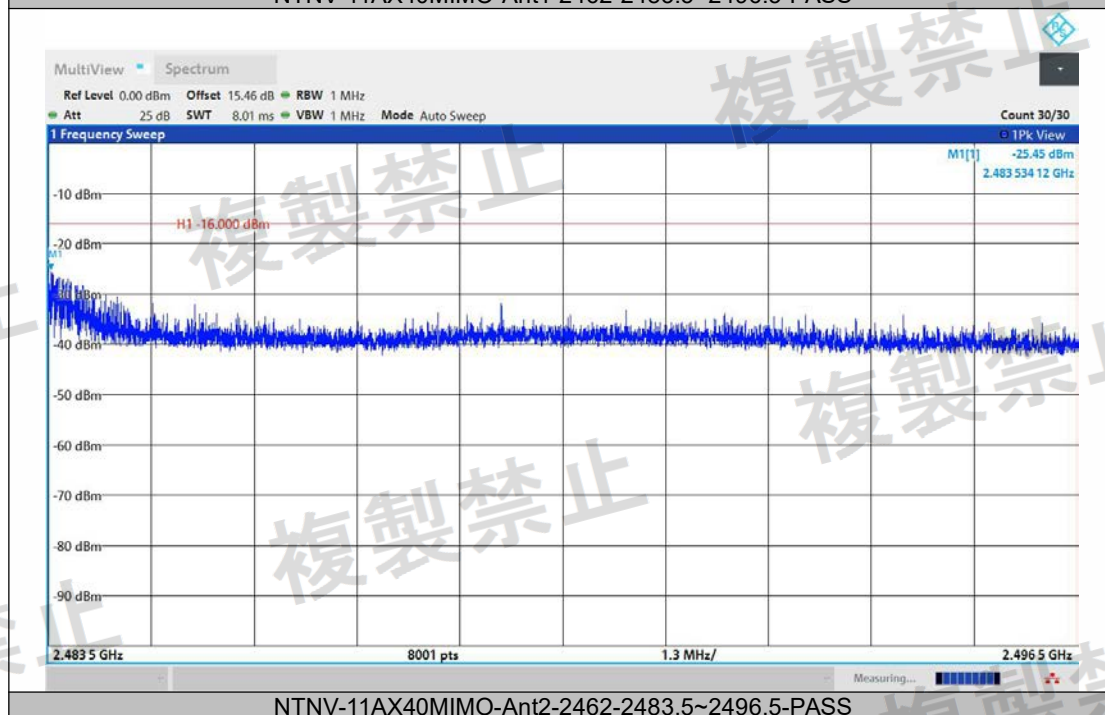
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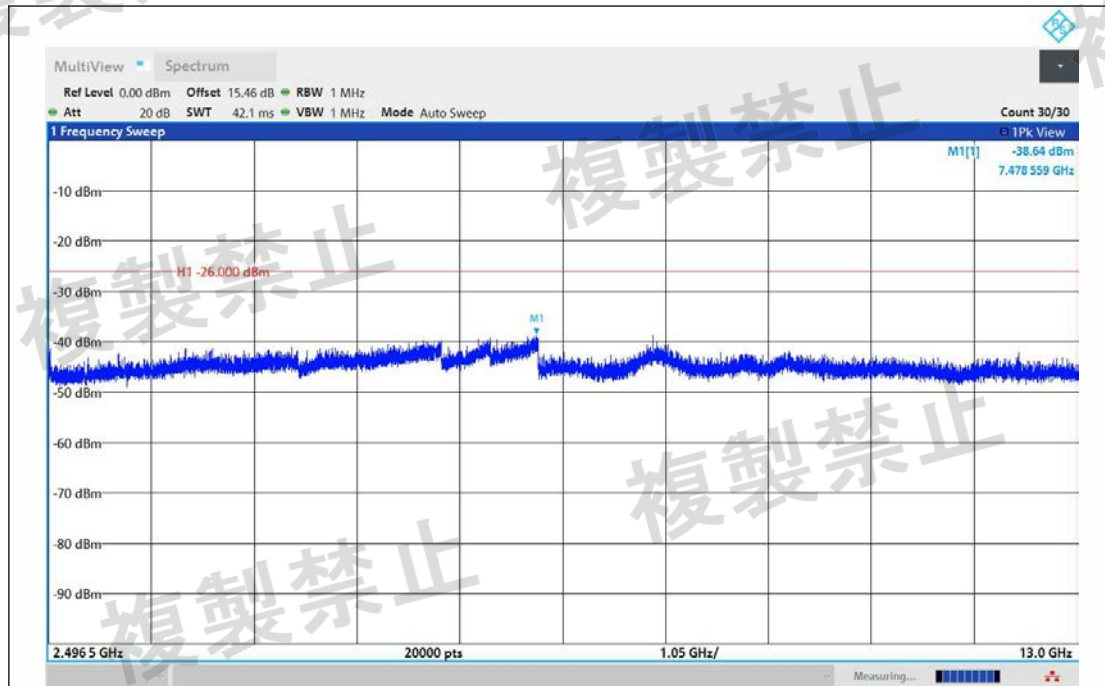
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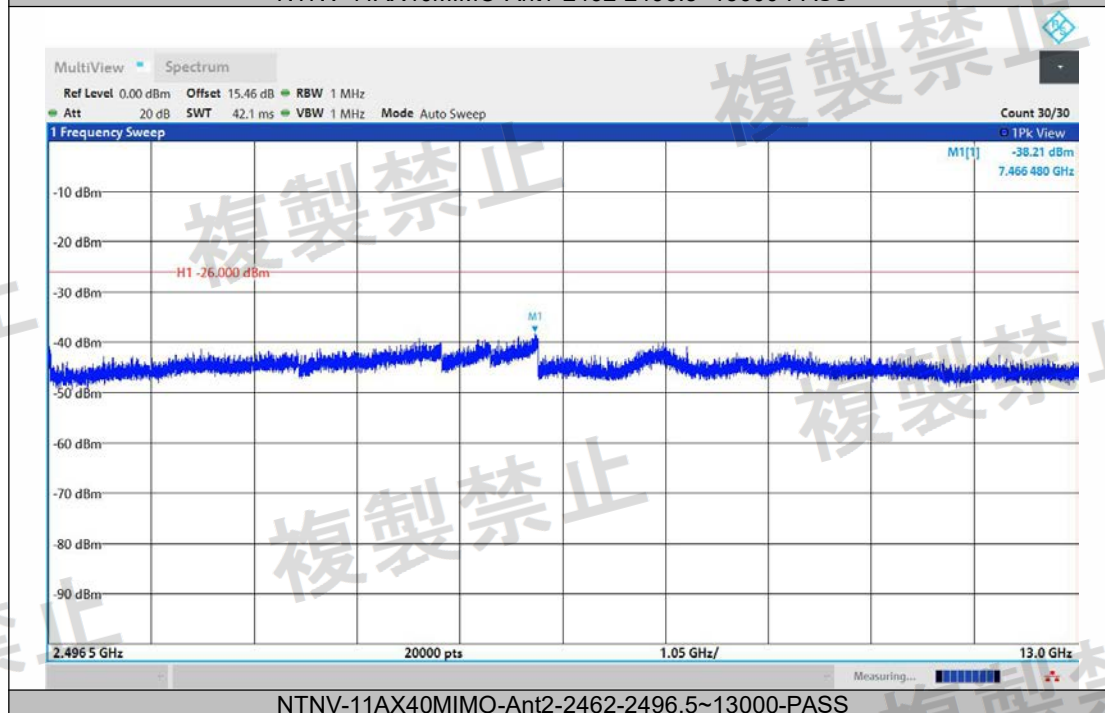
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NTNV-11AX40MIMO-Ant2-2462-2483.5~2496.5-PASS

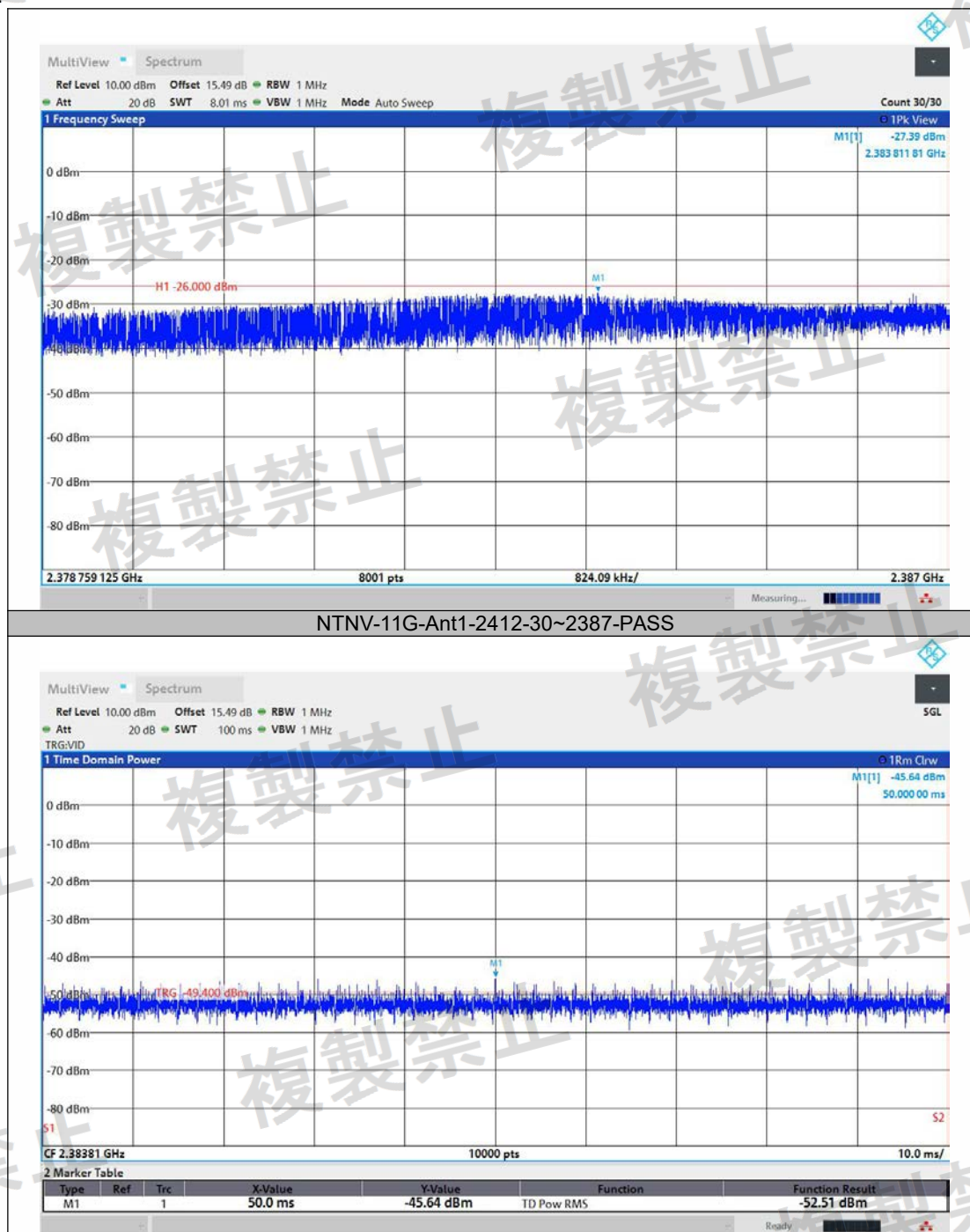


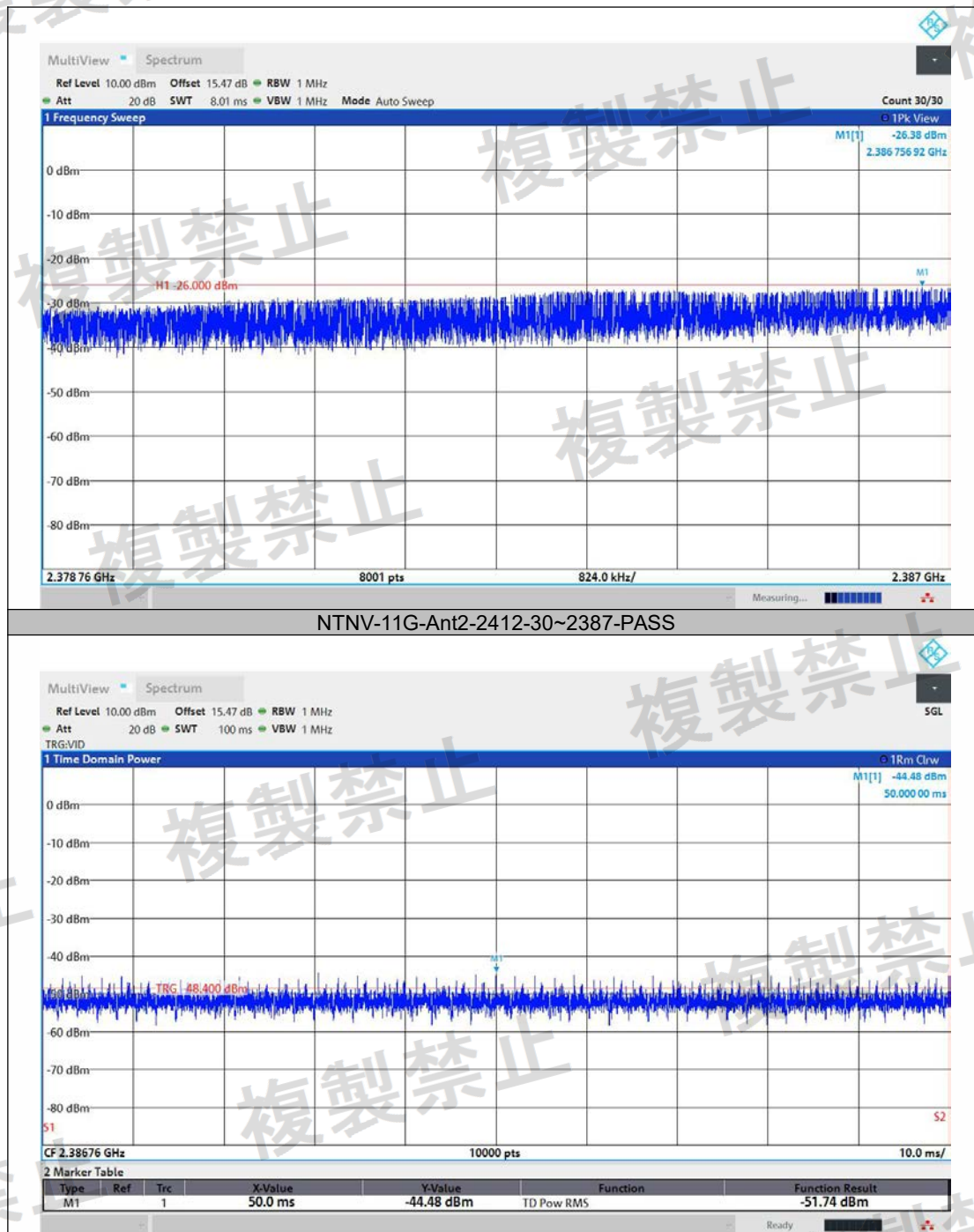
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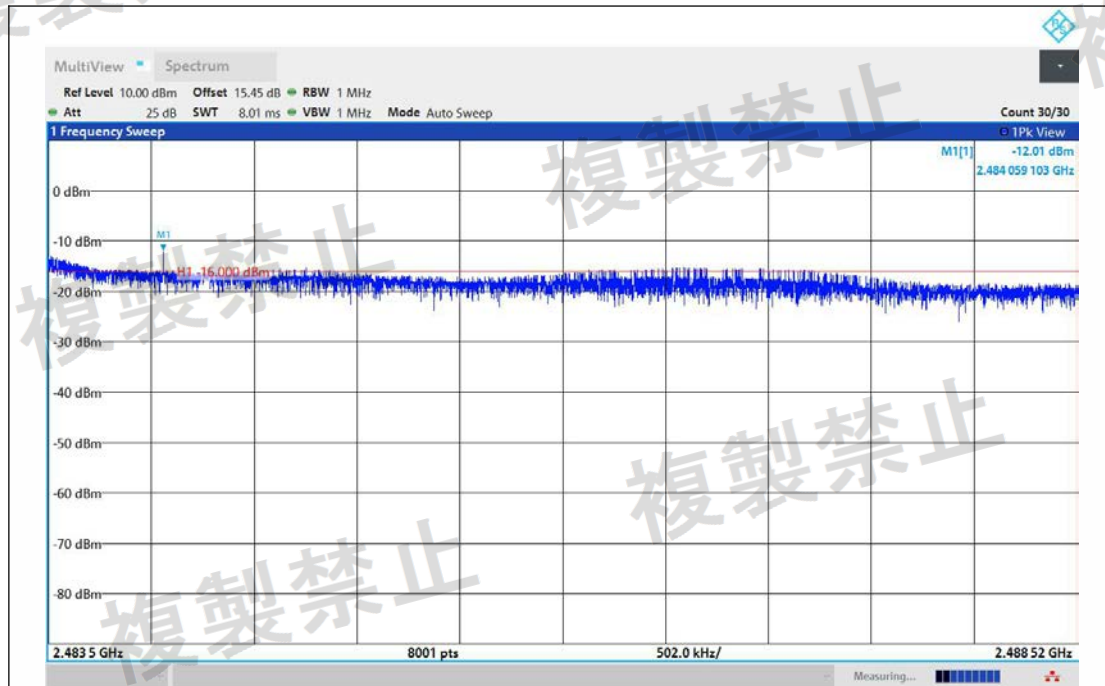


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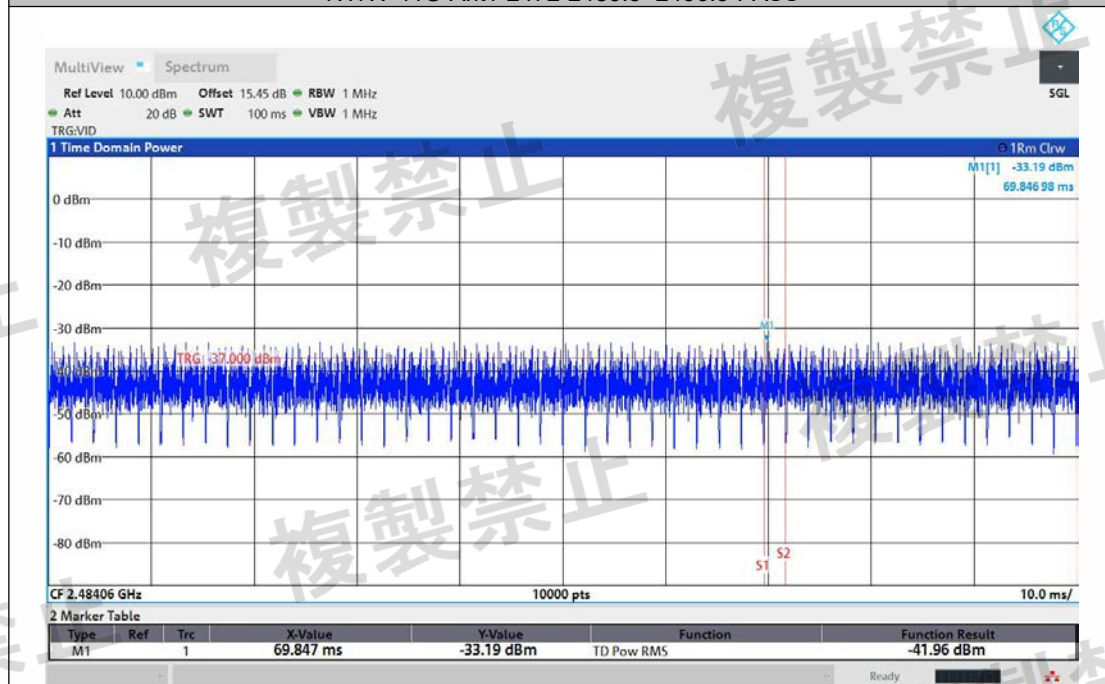
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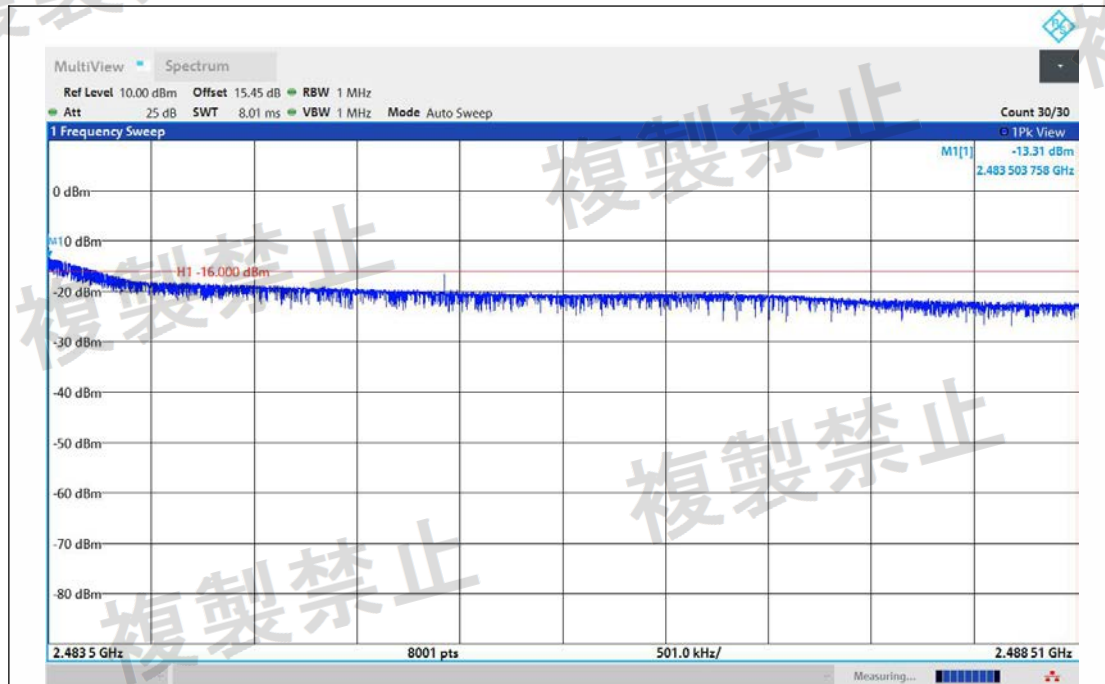




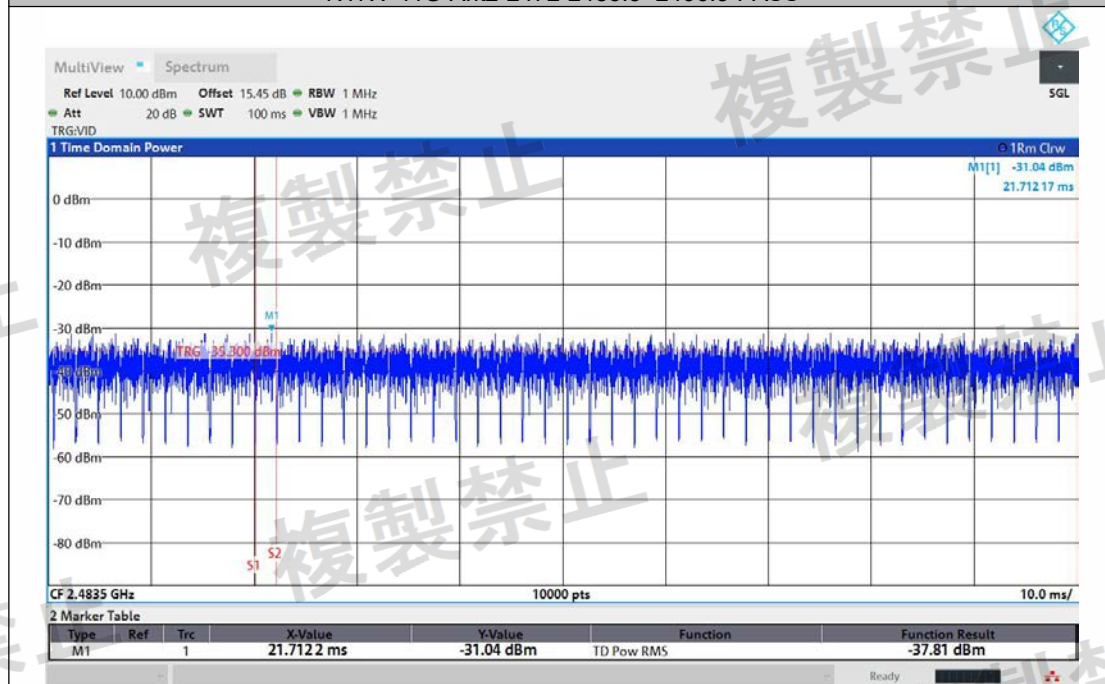


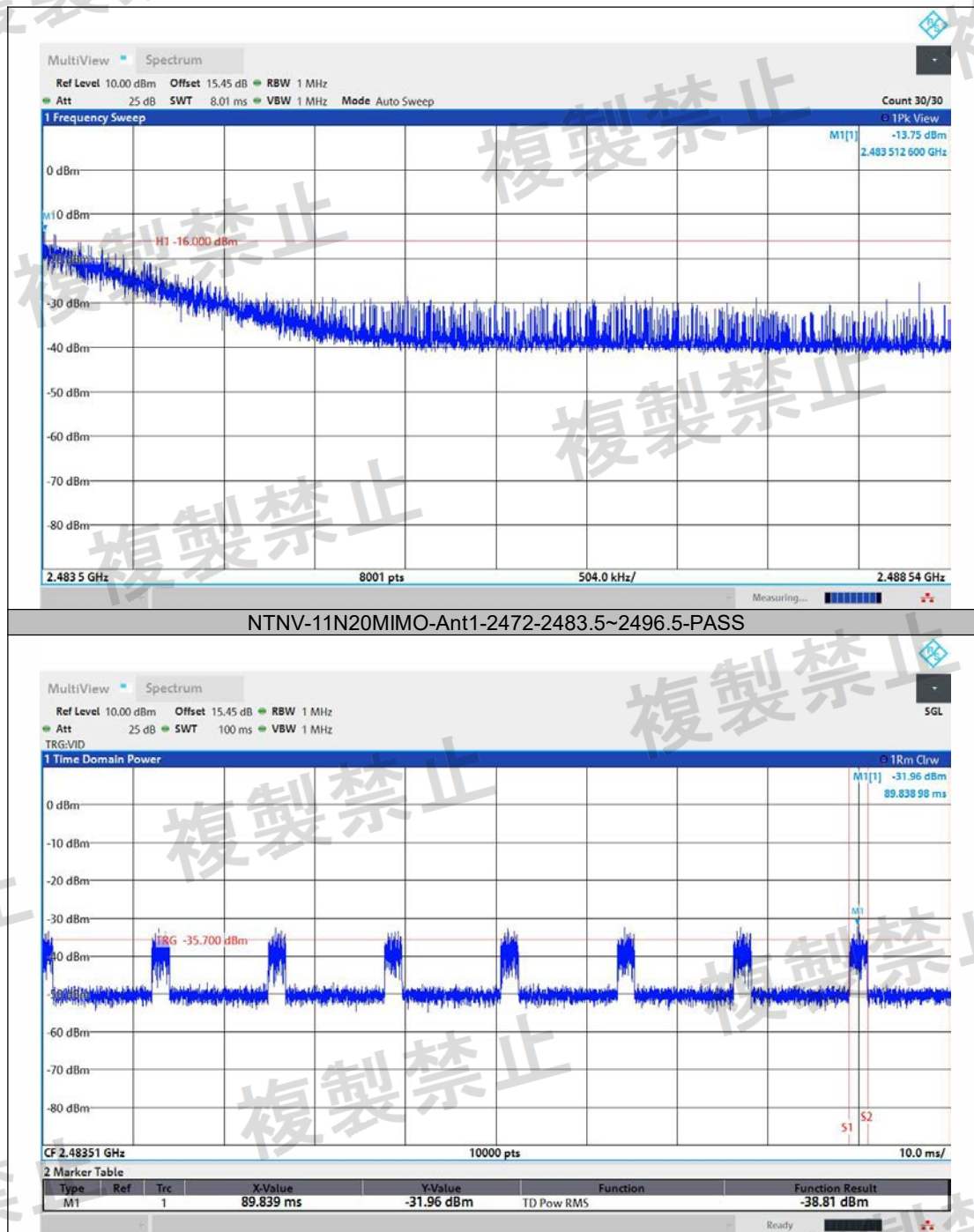
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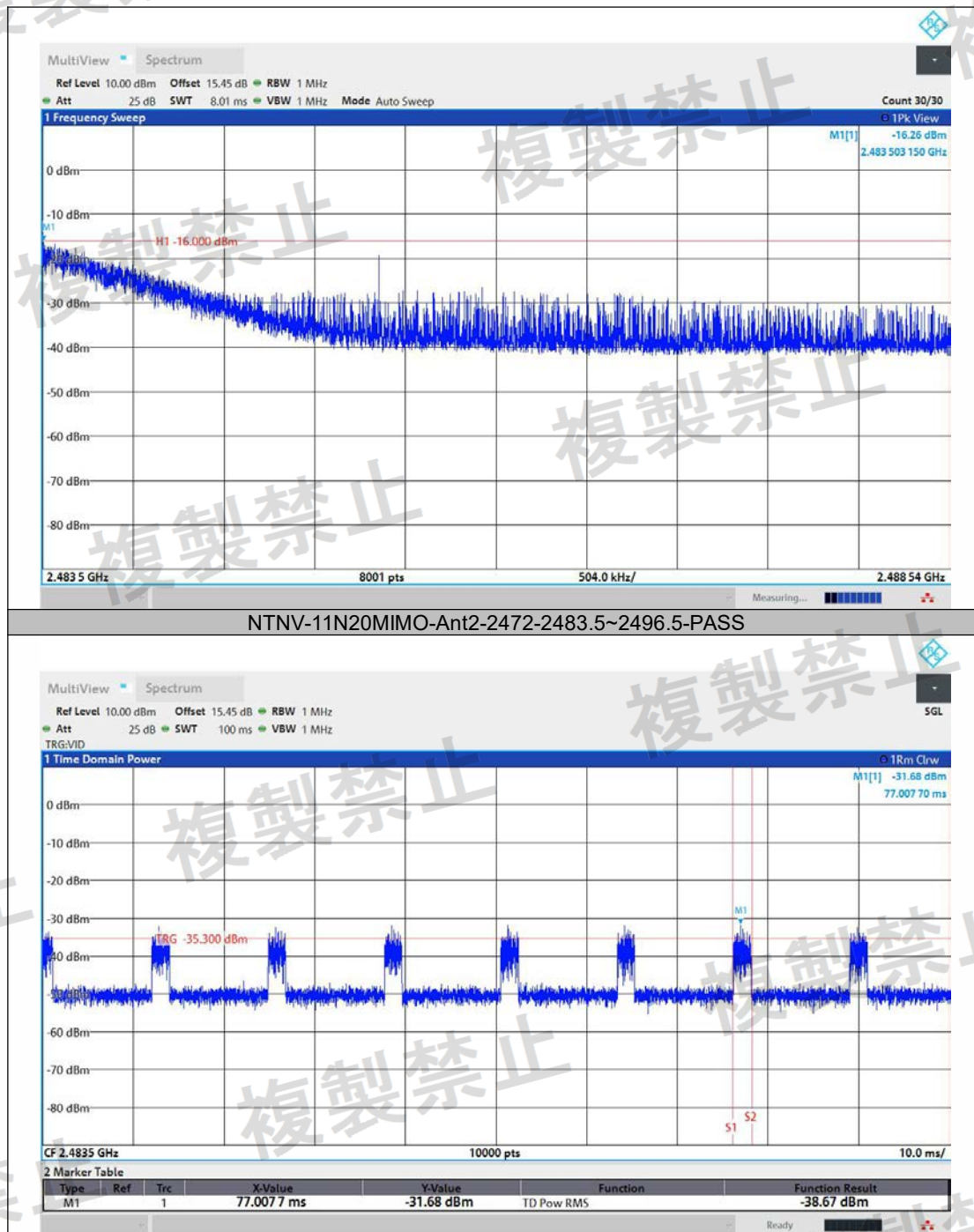


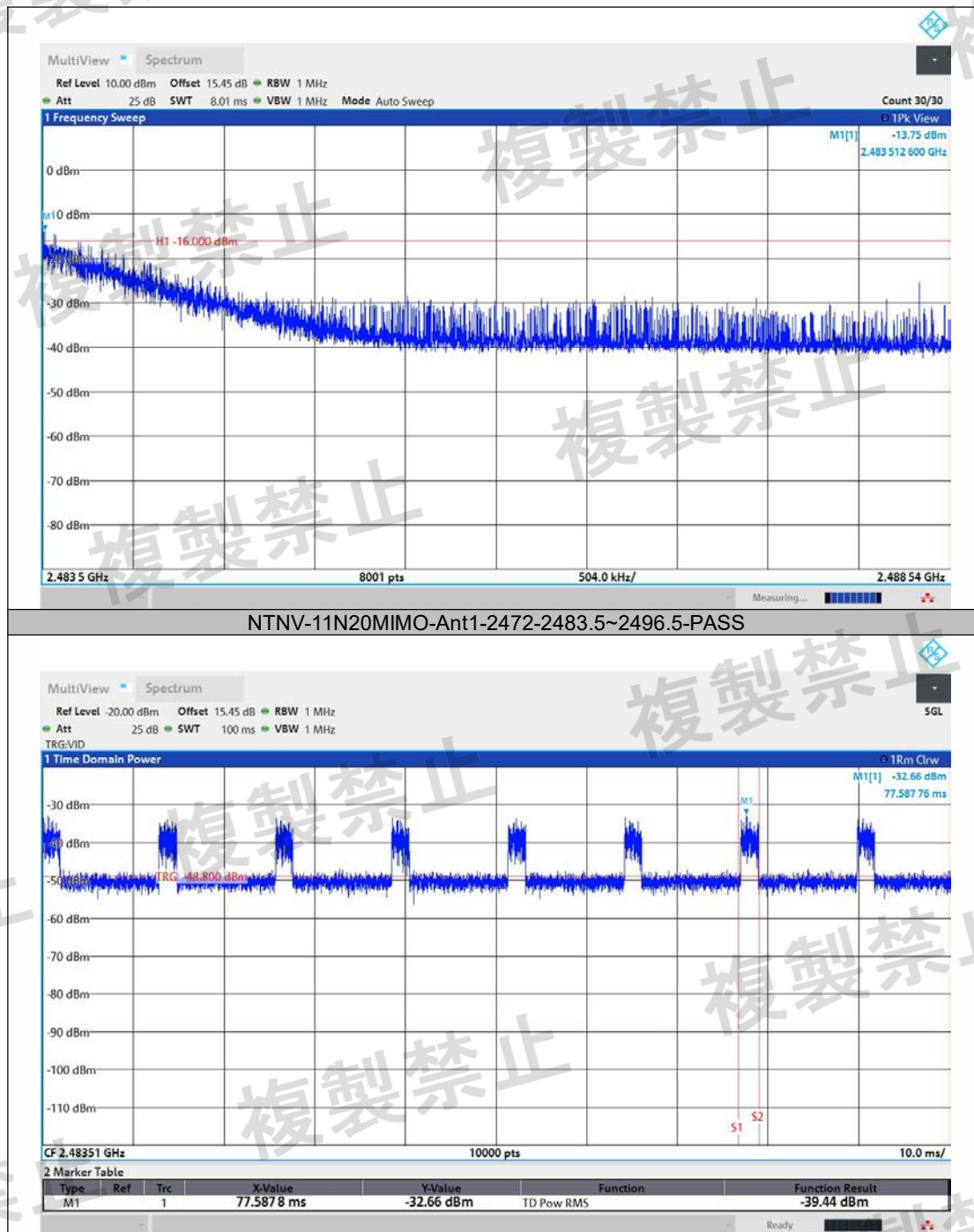


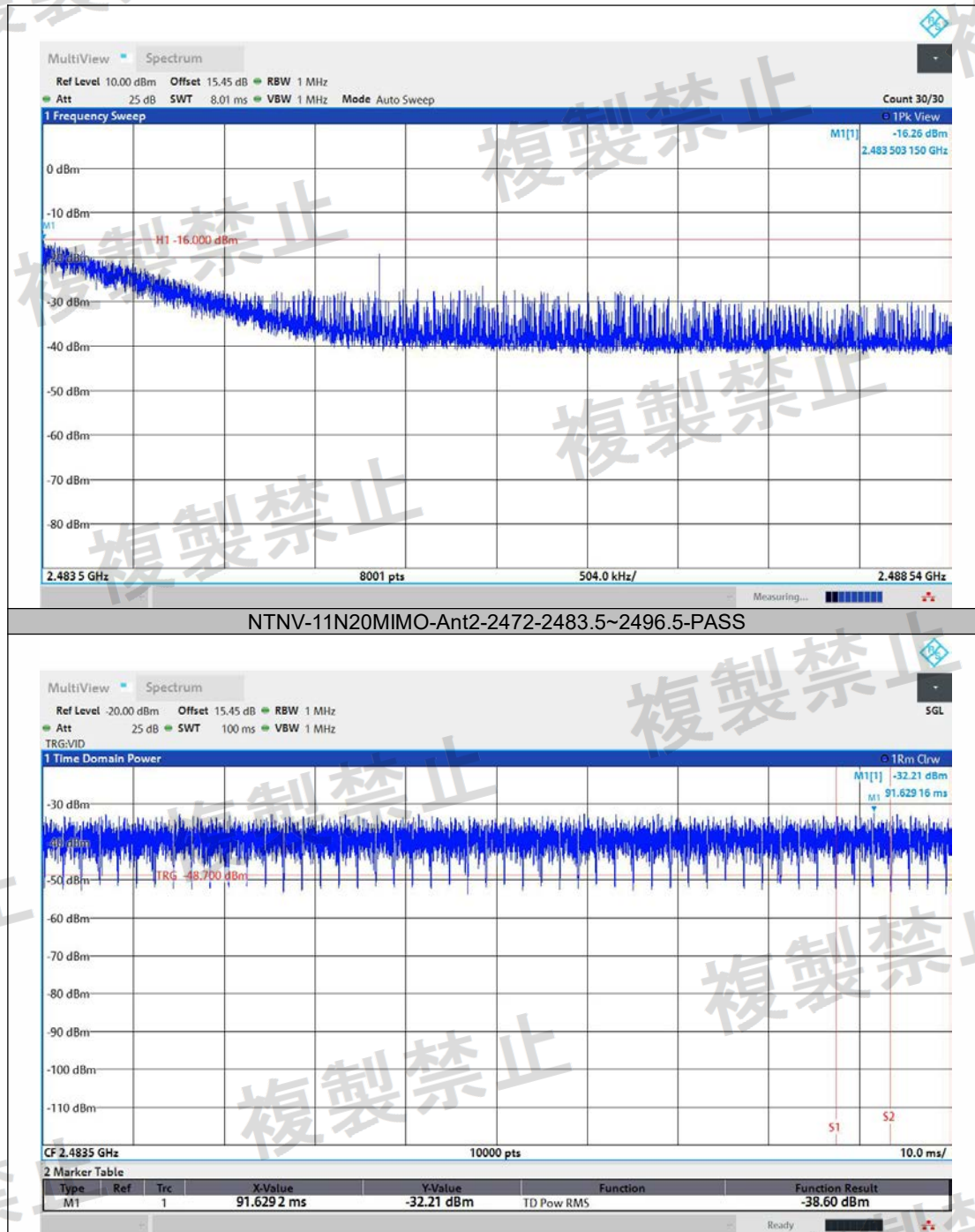
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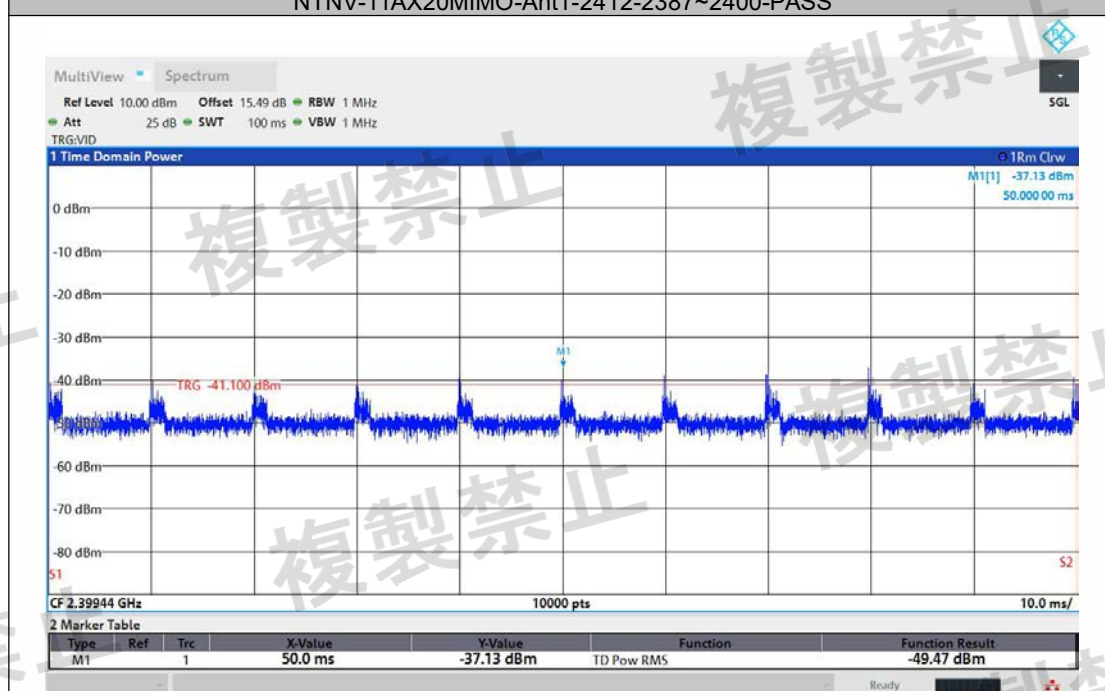
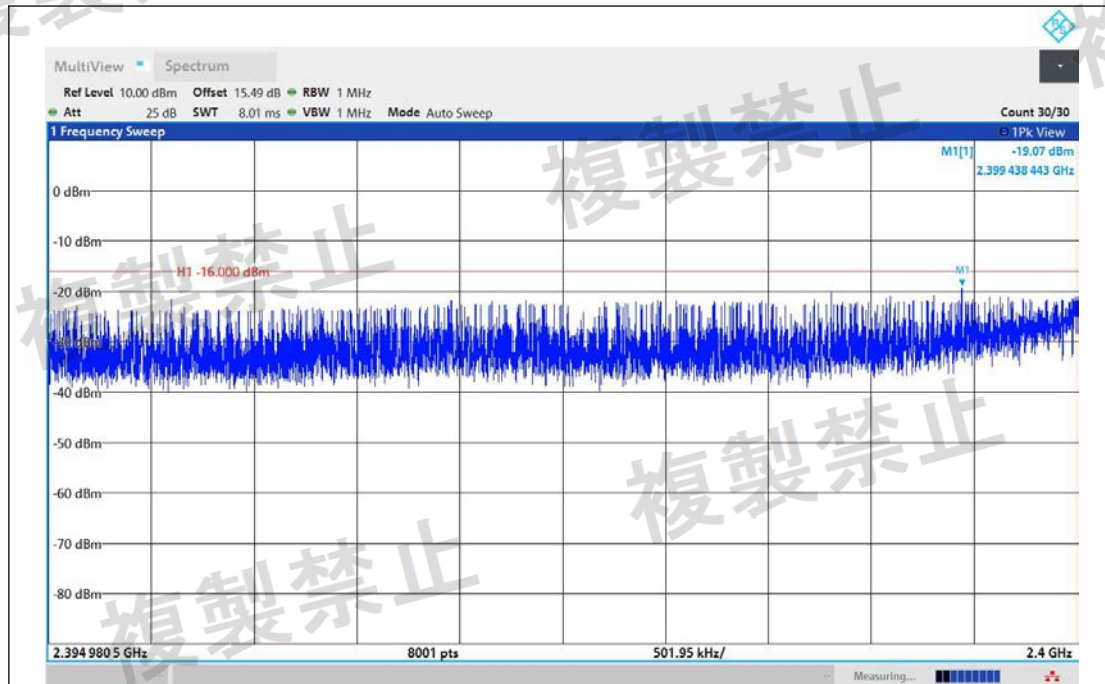


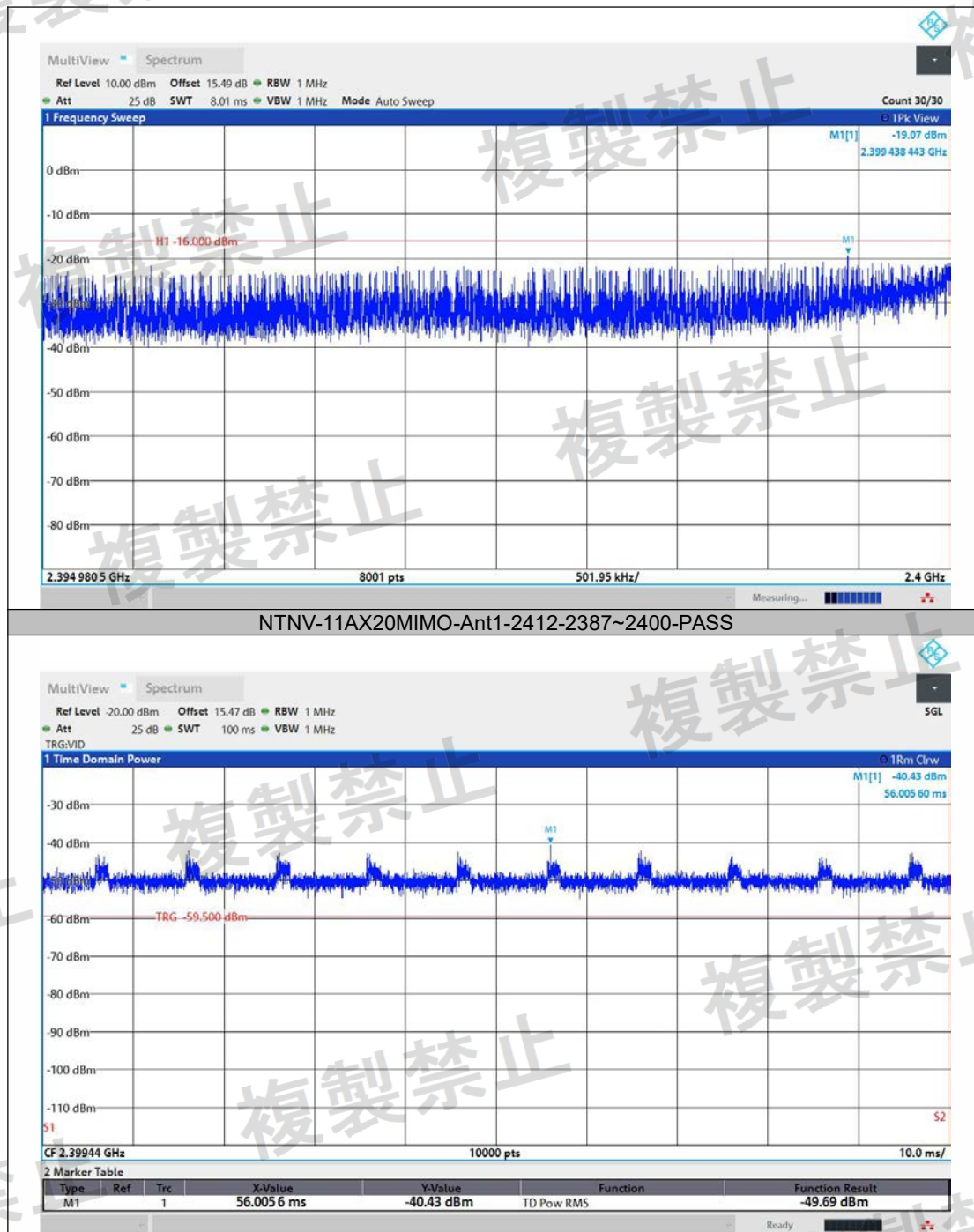


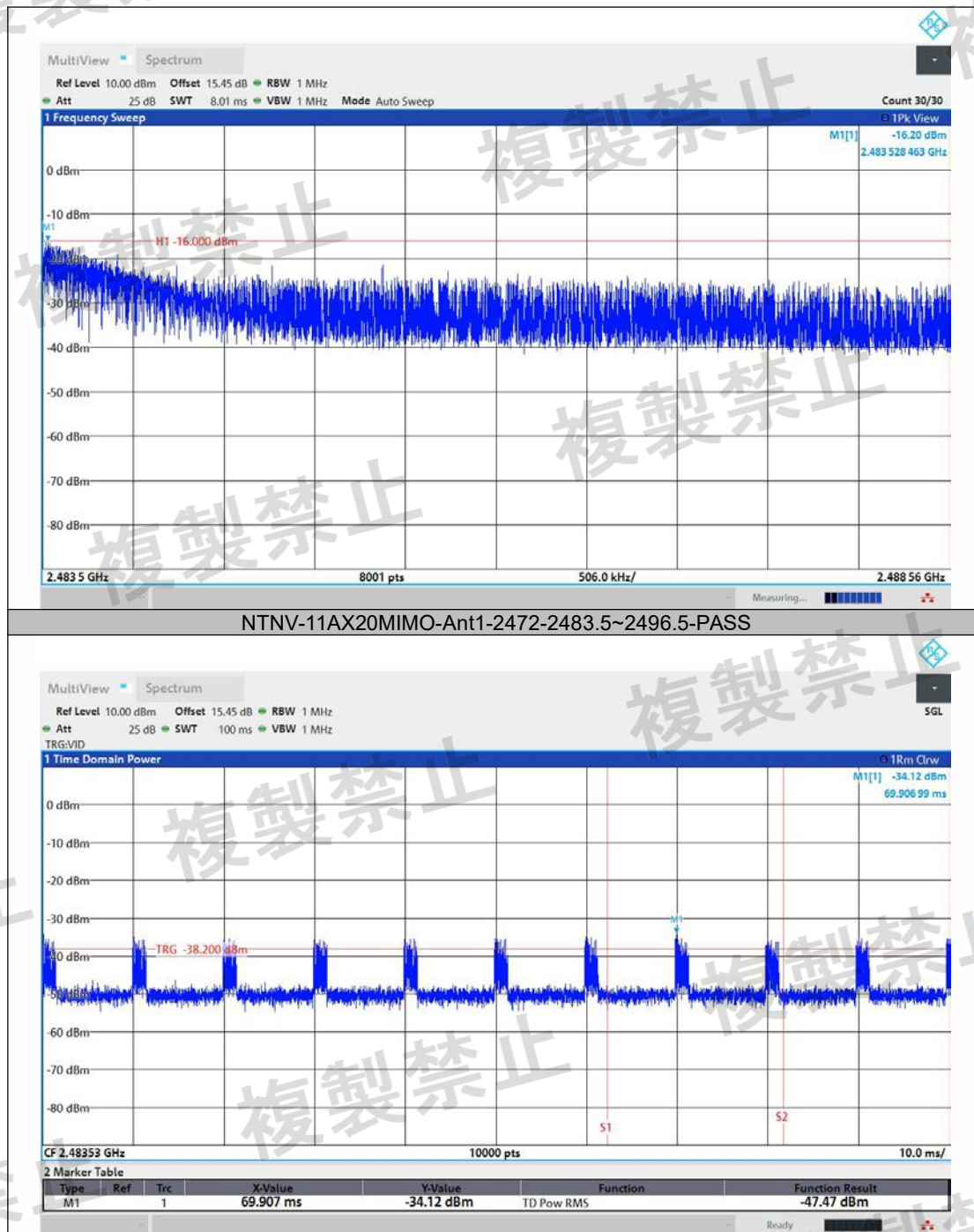


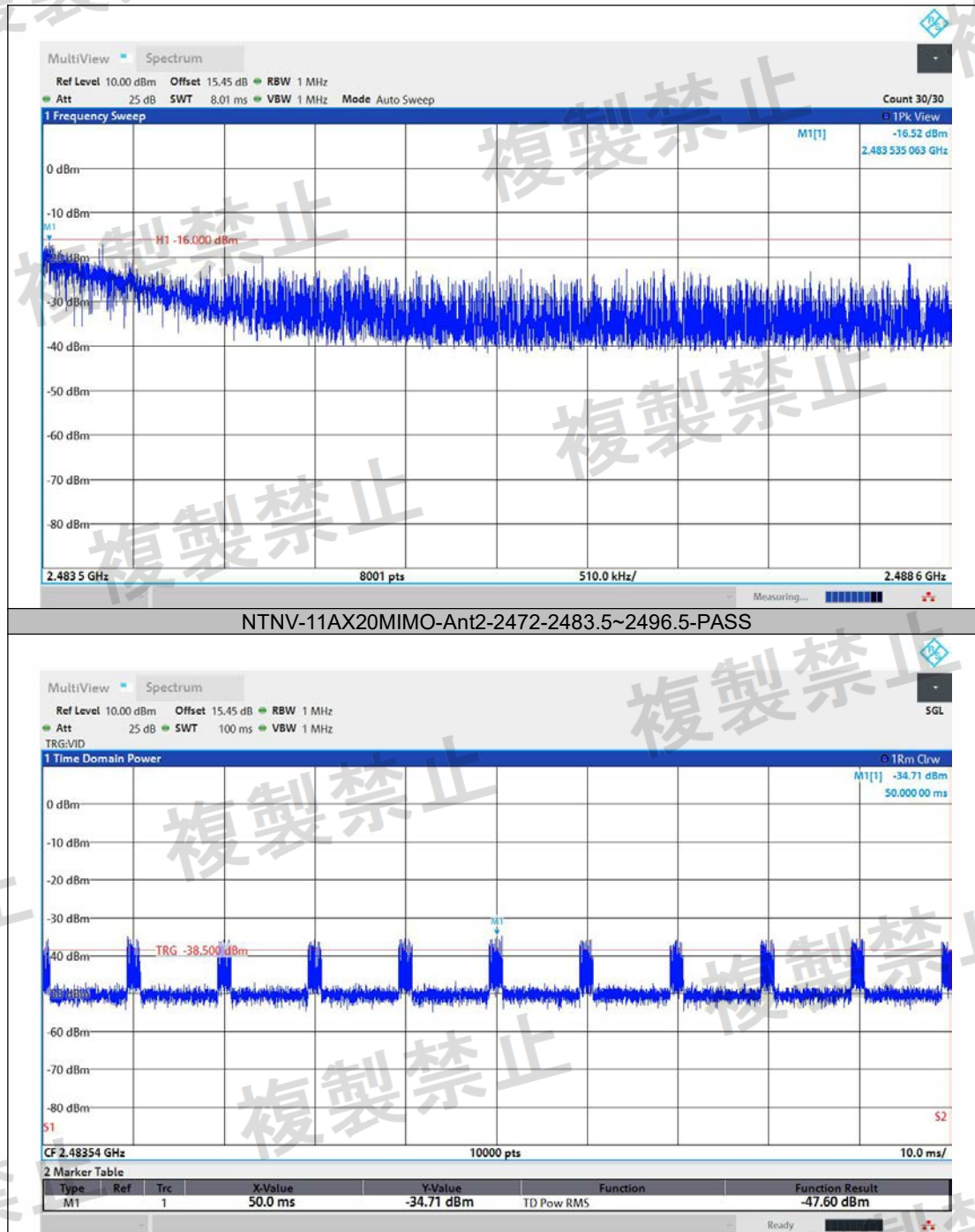


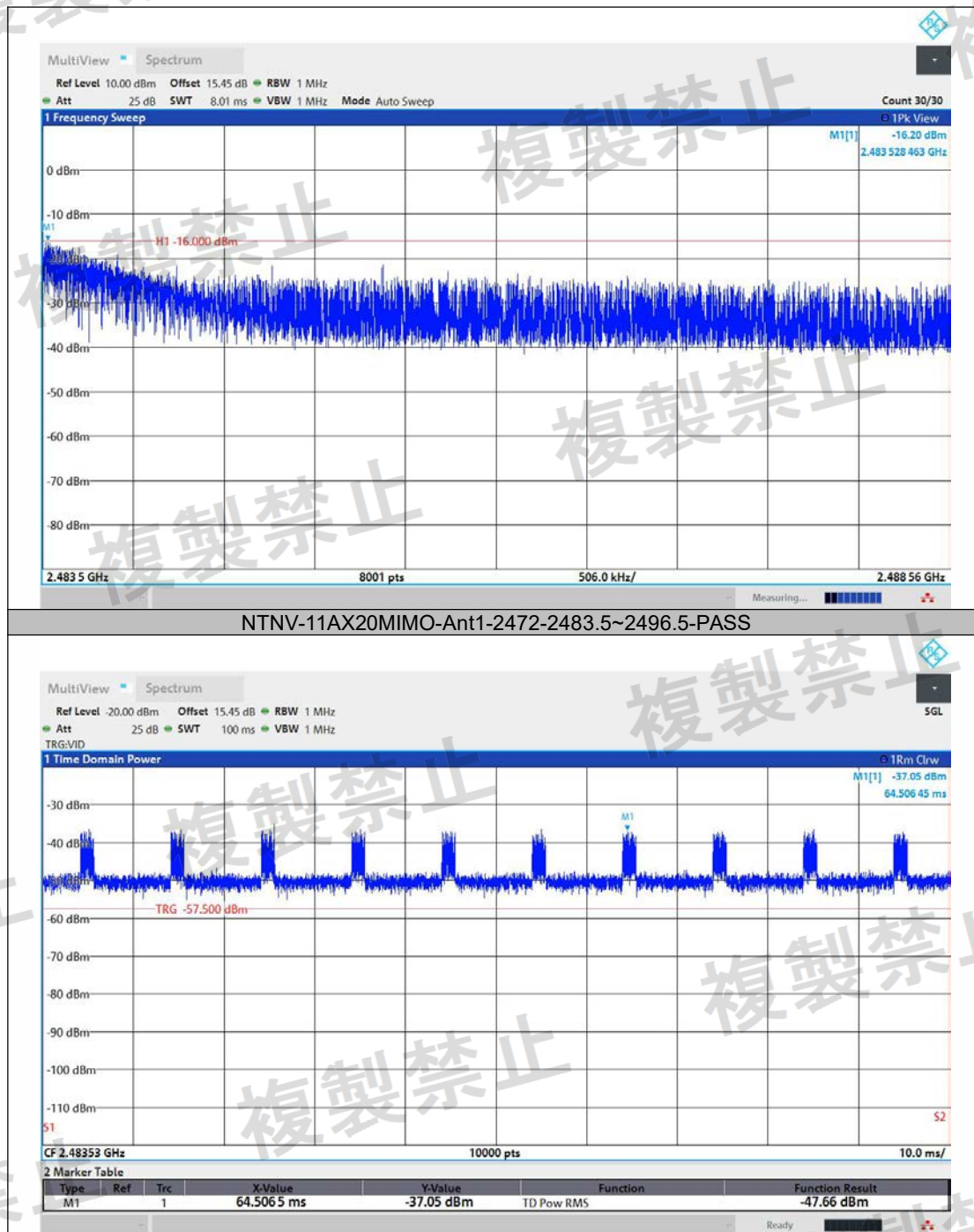


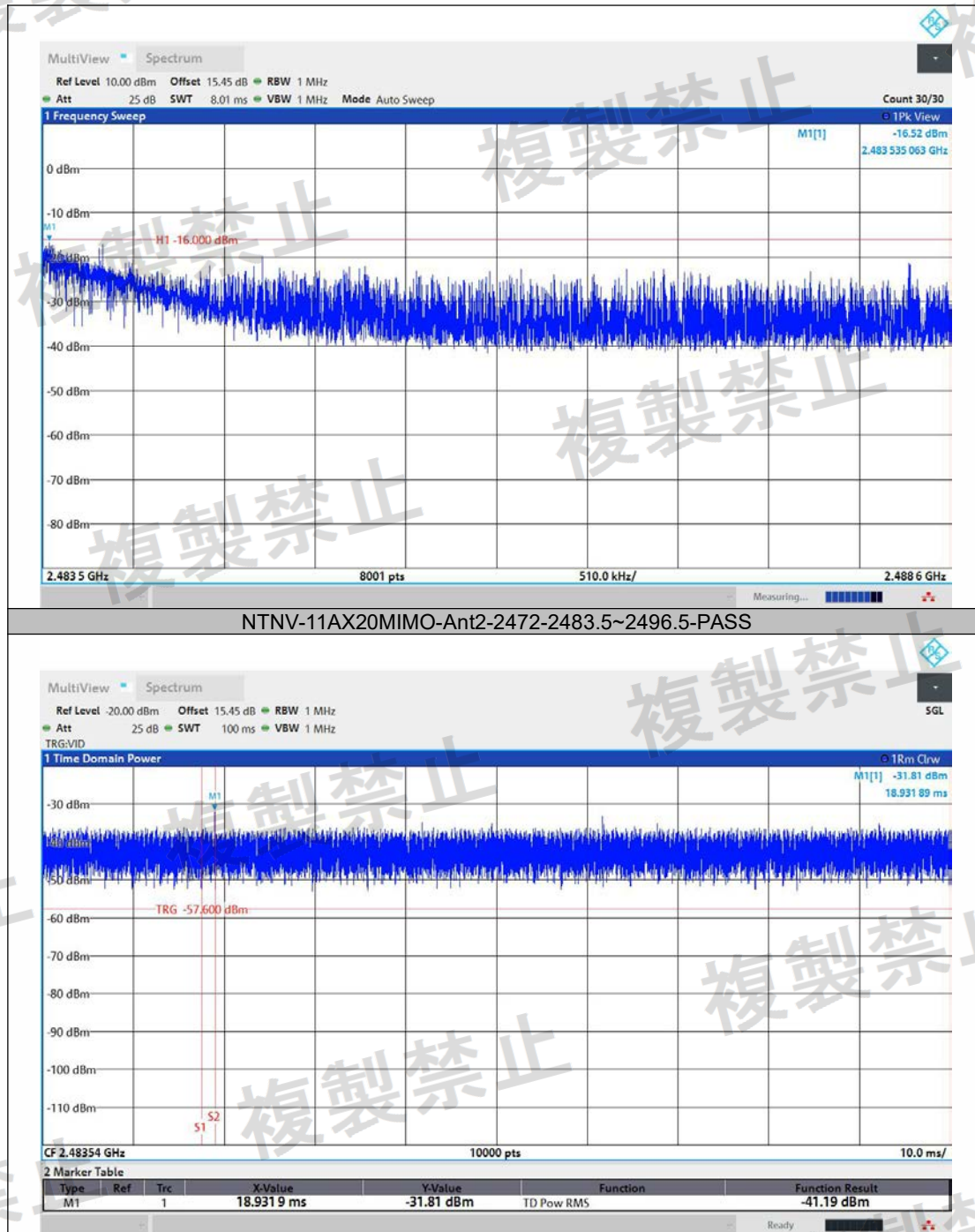












7.5 SPURIOUS EMISSIONS OF RX

7.5.1 Applicable Standard

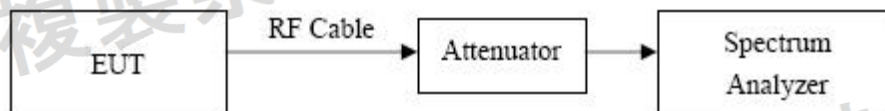
According to Item 19 of Article 2 Paragraph 1.

7.5.2 Conformance 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 (-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.

- | | |
|----------------------|-----------------------|
| a. 30 MHz - 1000 MHz | 4 nW (-54dBm) or less |
| b. 1GHz – 12.5 GHz | 20 nW(-47dBm) or less |

7.5.3 Test Setup Block Diagram



7.5.4 Test Procedure

Set the EUT so that the test frequency is can be measured receipt consecutively all the time.

(1) Set the attenuation value of the dummy load lowest as possible, due to low level of the measured object.

(2) Set Spectrum analyzer for seeking the collateral emission is set as below.

Sweeping Bandwidth	30MHz to 5 times of carrier frequency
Resolution Bandwidth	In case of frequency lower than 1 GHz, 100 kHz In case of frequency higher than 1 MHz
Video Bandwidth	Same level as the resolution bandwidth
Sweep Time	Minimum time to assure the measurement accuracy
Y-Axis Scale	10 dB/Div
Sweep Mode	Single sweep
Phase-Detection Mode	Positive peak

(3) Spectrum analyzer for measuring the collateral emission is set as below.

Central Frequency	Collateral emission frequency
Sweeping Bandwidth	0 Hz
Resolution Bandwidth	In case of frequency lower than 1 GHz, 100 kHz In case of frequency higher than 1 MHz
Video Bandwidth	Same level as the resolution bandwidth
Sweep Mode	Single sweep
Detection Mode	Sample

Set the spectrum analyzer as (2), seek the maximum amplitude of the collateral emission.

In case of sought result lower than 1/10 limit value, employ the sought value as the measured value.

In case the sought value exceeds 1/10 limit value, seek the collateral emission frequency by narrowing the sweeping band sequentially to 1/10 for the purpose of higher accuracy of the spectrum analyzer. Set the spectrum analyzer as (3).

7.5.5 Environmental Conditions

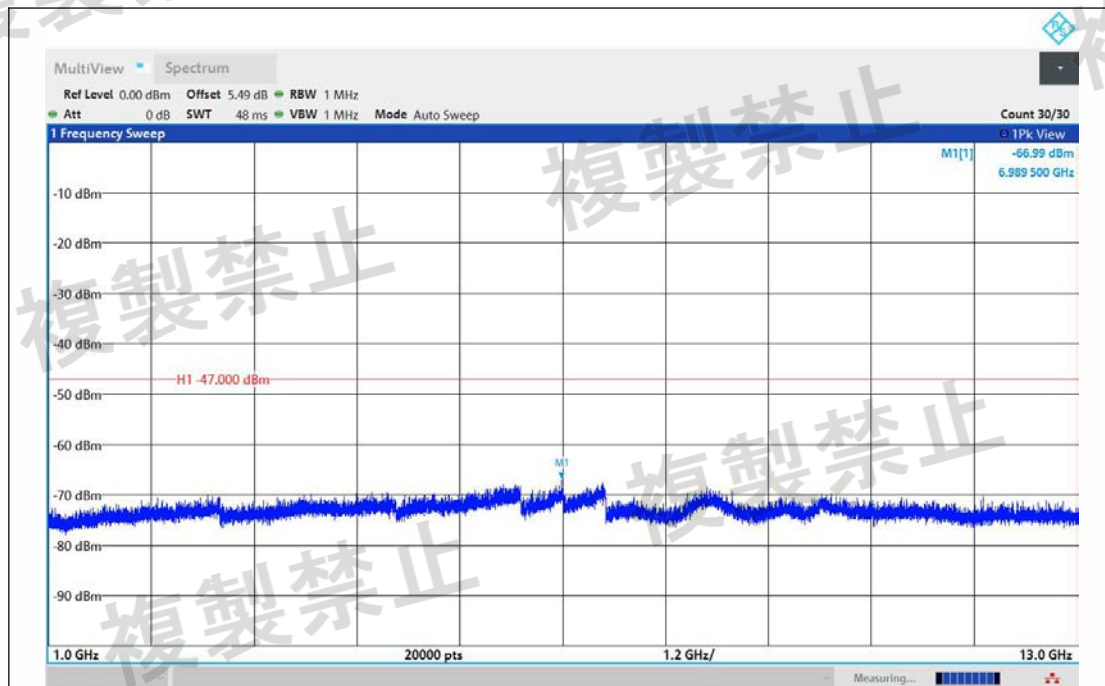
Temperature:	24.5°C
Relative Humidity:	45%
ATM Pressure:	1011 mbar

7.5.6 Test Results

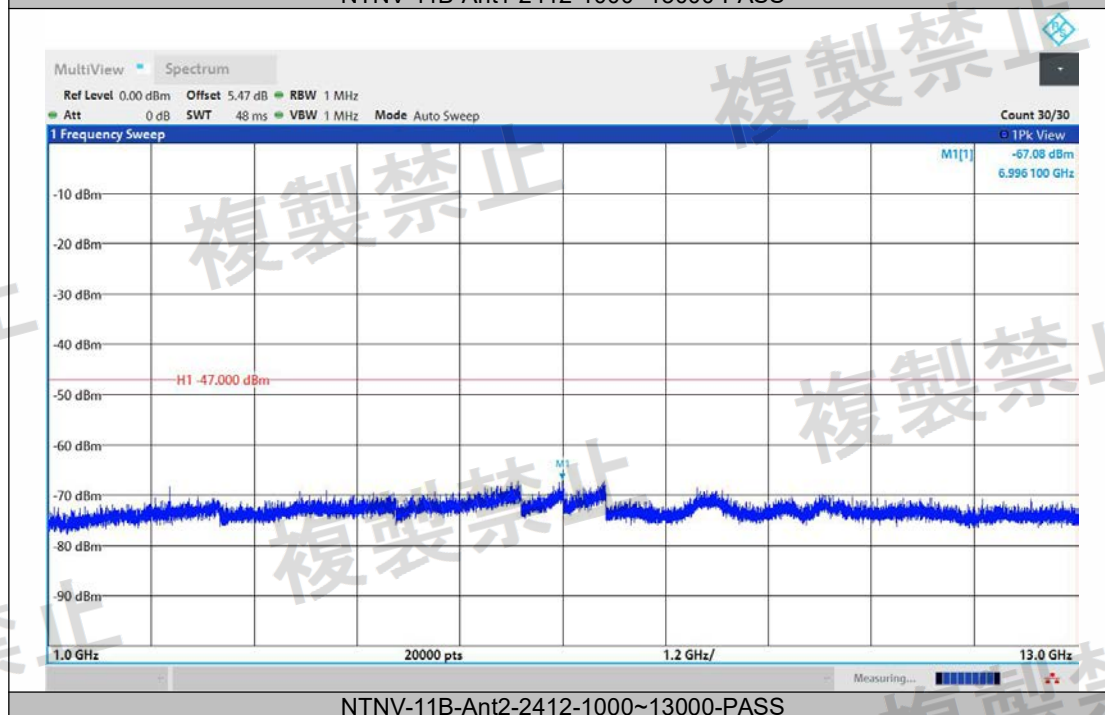
TestCondition	TestMode	Antenna	Frequency [MHz]	Freq.Range [MHz]	Freq. [MHz]	Result [dBm]	Limit [dBm]	Result [nW]	Limit [nW]	Verdict
NTNV	11B	Ant1	2412	30~1000	35.52	-81.14	≤-54	0.00769	≤4	PASS
NTNV	11B	Ant2	2412	30~1000	31.52	-80.77	≤-54	0.00838	≤4	PASS
NTNV	11B	Ant1	2412	1000~13000	6989.50	-66.99	≤-47	0.19999	≤20	PASS
NTNV	11B	Ant2	2412	1000~13000	6996.10	-67.08	≤-47	0.19588	≤20	PASS
NTNV	11B	Ant1	2442	30~1000	32.61	-81.07	≤-54	0.00782	≤4	PASS
NTNV	11B	Ant2	2442	30~1000	32.73	-80.94	≤-54	0.00805	≤4	PASS
NTNV	11B	Ant1	2442	1000~13000	7493.50	-66.64	≤-47	0.21677	≤20	PASS
NTNV	11B	Ant2	2442	1000~13000	7481.50	-66.66	≤-47	0.21577	≤20	PASS
NTNV	11B	Ant1	2472	30~1000	34.18	-80.02	≤-54	0.00995	≤4	PASS
NTNV	11B	Ant2	2472	30~1000	36.00	-80.18	≤-54	0.00959	≤4	PASS
NTNV	11B	Ant1	2472	1000~13000	7488.70	-66.72	≤-47	0.21281	≤20	PASS
NTNV	11B	Ant2	2472	1000~13000	6382.30	-67.55	≤-47	0.17579	≤20	PASS
NTNV	11G	Ant1	2412	30~1000	192.27	-81.02	≤-54	0.00791	≤4	PASS
NTNV	11G	Ant2	2412	30~1000	35.52	-81.08	≤-54	0.00780	≤4	PASS
NTNV	11G	Ant1	2412	1000~13000	6958.90	-66.72	≤-47	0.21281	≤20	PASS
NTNV	11G	Ant2	2412	1000~13000	7493.50	-67.31	≤-47	0.18578	≤20	PASS
NTNV	11G	Ant1	2442	30~1000	35.64	-80.91	≤-54	0.00811	≤4	PASS
NTNV	11G	Ant2	2442	30~1000	32.12	-80.44	≤-54	0.00904	≤4	PASS
NTNV	11G	Ant1	2442	1000~13000	6936.70	-66.74	≤-47	0.21184	≤20	PASS
NTNV	11G	Ant2	2442	1000~13000	7425.10	-67.02	≤-47	0.19861	≤20	PASS
NTNV	11G	Ant1	2472	30~1000	35.27	-79.18	≤-54	0.01208	≤4	PASS
NTNV	11G	Ant2	2472	30~1000	71.52	-80.07	≤-54	0.00984	≤4	PASS
NTNV	11G	Ant1	2472	1000~13000	6939.70	-67.26	≤-47	0.18793	≤20	PASS
NTNV	11G	Ant2	2472	1000~13000	7459.90	-66.27	≤-47	0.23605	≤20	PASS
NTNV	11N20MIMO	Ant1	2412	30~1000	40.73	-80.80	≤-54	0.00832	≤4	PASS
NTNV	11N20MIMO	Ant2	2412	30~1000	31.15	-81.35	≤-54	0.00733	≤4	PASS
NTNV	11N20MIMO	Ant1	2412	1000~13000	6985.30	-66.94	≤-47	0.20230	≤20	PASS
NTNV	11N20MIMO	Ant2	2412	1000~13000	7474.90	-66.72	≤-47	0.21281	≤20	PASS
NTNV	11N20MIMO	Ant1	2442	30~1000	33.21	-81.24	≤-54	0.00752	≤4	PASS
NTNV	11N20MIMO	Ant2	2442	30~1000	31.88	-80.55	≤-54	0.00881	≤4	PASS
NTNV	11N20MIMO	Ant1	2442	1000~13000	6264.10	-67.57	≤-47	0.17498	≤20	PASS
NTNV	11N20MIMO	Ant2	2442	1000~13000	6957.10	-66.82	≤-47	0.20797	≤20	PASS
NTNV	11N20MIMO	Ant1	2472	30~1000	33.82	-81.02	≤-54	0.00791	≤4	PASS
NTNV	11N20MIMO	Ant2	2472	30~1000	34.30	-80.47	≤-54	0.00897	≤4	PASS
NTNV	11N20MIMO	Ant1	2472	1000~13000	3405.10	-65.14	≤-47	0.30620	≤20	PASS
NTNV	11N20MIMO	Ant2	2472	1000~13000	7431.70	-66.66	≤-47	0.21577	≤20	PASS
NTNV	11N40MIMO	Ant1	2422	30~1000	35.27	-81.02	≤-54	0.00791	≤4	PASS
NTNV	11N40MIMO	Ant2	2422	30~1000	47.88	-80.96	≤-54	0.00802	≤4	PASS
NTNV	11N40MIMO	Ant1	2422	1000~13000	6472.90	-66.85	≤-47	0.20654	≤20	PASS

	O									
NTNV	11N40MIM O	Ant2	2422	1000~13000	7488.10	-66.77	≤-47	0.21038	≤20	PASS
NTNV	11N40MIM O	Ant1	2442	30~1000	32.73	-80.68	≤-54	0.00855	≤4	PASS
NTNV	11N40MIM O	Ant2	2442	30~1000	33.09	-79.48	≤-54	0.01127	≤4	PASS
NTNV	11N40MIM O	Ant1	2442	1000~13000	6969.10	-67.47	≤-47	0.17906	≤20	PASS
NTNV	11N40MIM O	Ant2	2442	1000~13000	6338.50	-67.30	≤-47	0.18621	≤20	PASS
NTNV	11N40MIM O	Ant1	2462	30~1000	32.73	-80.60	≤-54	0.00871	≤4	PASS
NTNV	11N40MIM O	Ant2	2462	30~1000	56.73	-80.52	≤-54	0.00887	≤4	PASS
NTNV	11N40MIM O	Ant1	2462	1000~13000	7495.90	-66.97	≤-47	0.20091	≤20	PASS
NTNV	11N40MIM O	Ant2	2462	1000~13000	7449.70	-67.22	≤-47	0.18967	≤20	PASS
NTNV	11AX20MI MO	Ant1	2412	30~1000	35.88	-80.50	≤-54	0.00891	≤4	PASS
NTNV	11AX20MI MO	Ant2	2412	30~1000	32.24	-80.05	≤-54	0.00989	≤4	PASS
NTNV	11AX20MI MO	Ant1	2412	1000~13000	7465.90	-67.10	≤-47	0.19498	≤20	PASS
NTNV	11AX20MI MO	Ant2	2412	1000~13000	7488.70	-66.11	≤-47	0.24491	≤20	PASS
NTNV	11AX20MI MO	Ant1	2442	30~1000	30.18	-80.01	≤-54	0.00998	≤4	PASS
NTNV	11AX20MI MO	Ant2	2442	30~1000	35.88	-81.15	≤-54	0.00767	≤4	PASS
NTNV	11AX20MI MO	Ant1	2442	1000~13000	3417.10	-63.94	≤-47	0.40365	≤20	PASS
NTNV	11AX20MI MO	Ant2	2442	1000~13000	7457.50	-67.22	≤-47	0.18967	≤20	PASS
NTNV	11AX20MI MO	Ant1	2472	30~1000	48.73	-80.87	≤-54	0.00818	≤4	PASS
NTNV	11AX20MI MO	Ant2	2472	30~1000	43.88	-80.78	≤-54	0.00836	≤4	PASS
NTNV	11AX20MI MO	Ant1	2472	1000~13000	7413.70	-67.10	≤-47	0.19498	≤20	PASS
NTNV	11AX20MI MO	Ant2	2472	1000~13000	7429.90	-67.36	≤-47	0.18365	≤20	PASS
NTNV	11AX40MI MO	Ant1	2422	30~1000	34.91	-80.96	≤-54	0.00802	≤4	PASS
NTNV	11AX40MI MO	Ant2	2422	30~1000	31.27	-80.90	≤-54	0.00813	≤4	PASS
NTNV	11AX40MI MO	Ant1	2422	1000~13000	7427.50	-67.10	≤-47	0.19498	≤20	PASS
NTNV	11AX40MI MO	Ant2	2422	1000~13000	7468.90	-66.70	≤-47	0.21380	≤20	PASS
NTNV	11AX40MI MO	Ant1	2442	30~1000	31.15	-80.80	≤-54	0.00832	≤4	PASS
NTNV	11AX40MI MO	Ant2	2442	30~1000	31.39	-80.94	≤-54	0.00805	≤4	PASS
NTNV	11AX40MI MO	Ant1	2442	1000~13000	7164.70	-67.47	≤-47	0.17906	≤20	PASS
NTNV	11AX40MI MO	Ant2	2442	1000~13000	7476.70	-66.75	≤-47	0.21135	≤20	PASS
NTNV	11AX40MI MO	Ant1	2462	30~1000	52.49	-80.44	≤-54	0.00904	≤4	PASS
NTNV	11AX40MI MO	Ant2	2462	30~1000	31.76	-80.51	≤-54	0.00889	≤4	PASS
NTNV	11AX40MI MO	Ant1	2462	1000~13000	7464.70	-67.28	≤-47	0.18707	≤20	PASS
NTNV	11AX40MI MO	Ant2	2462	1000~13000	3506.50	-59.74	≤-47	1.06170	≤20	PASS

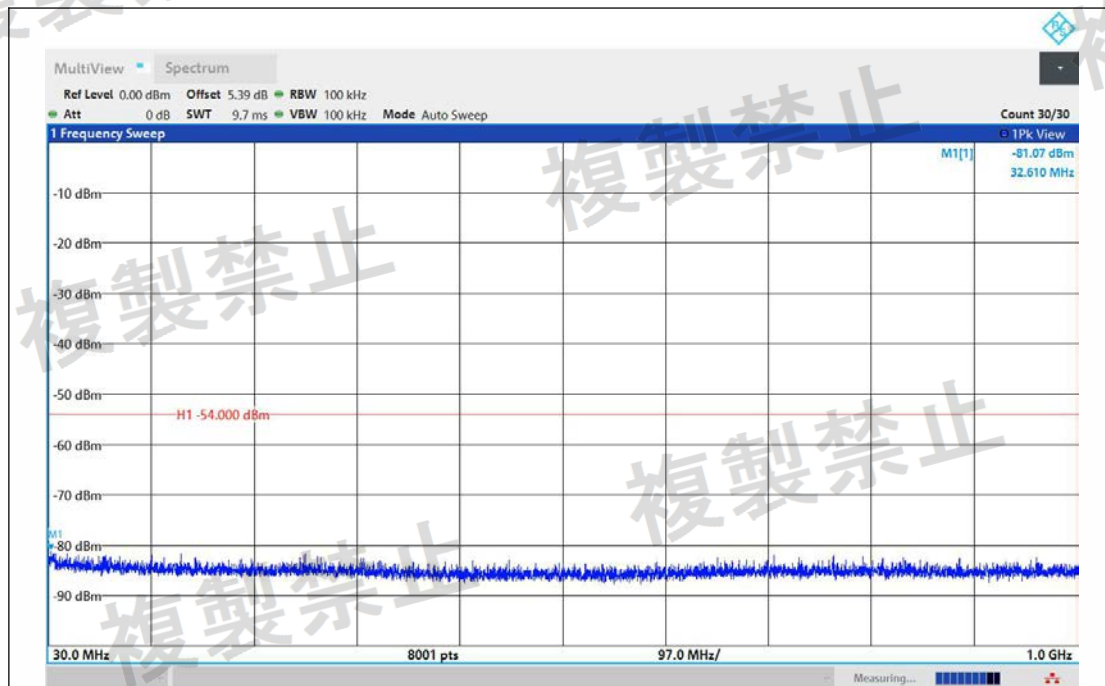




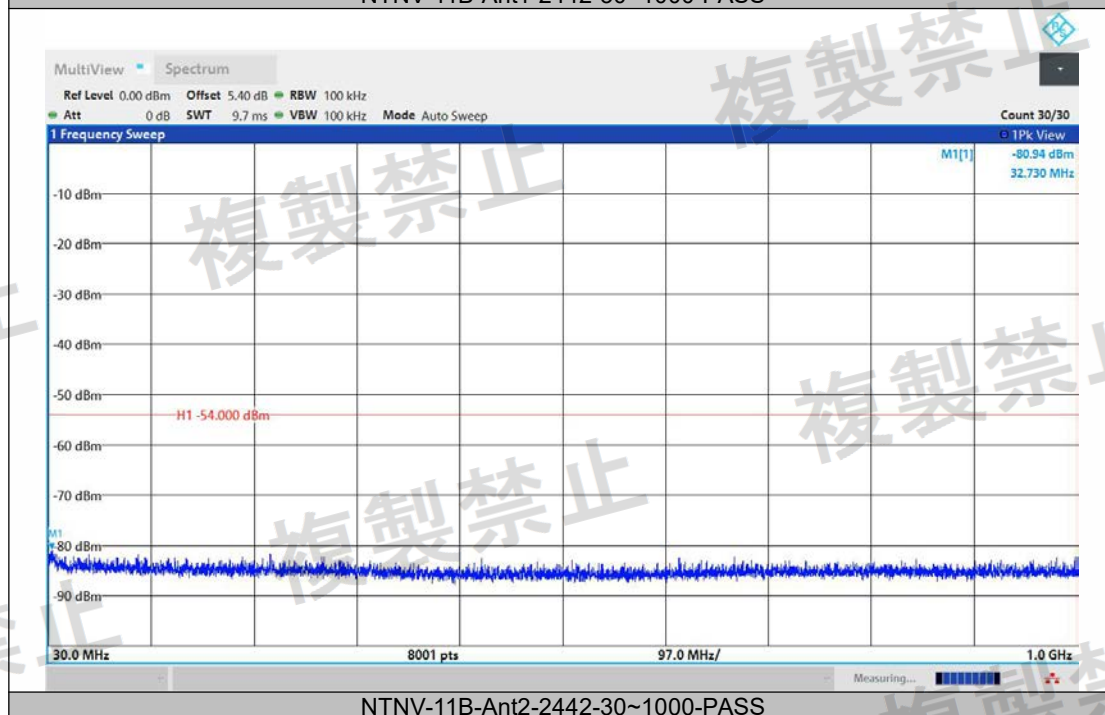
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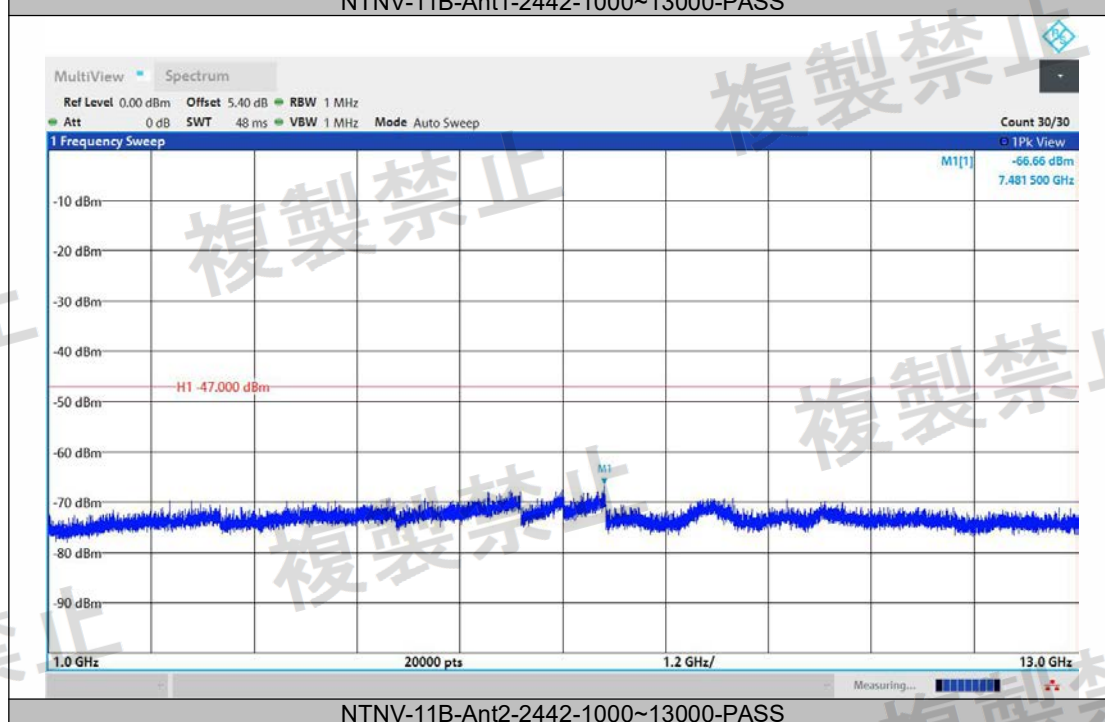
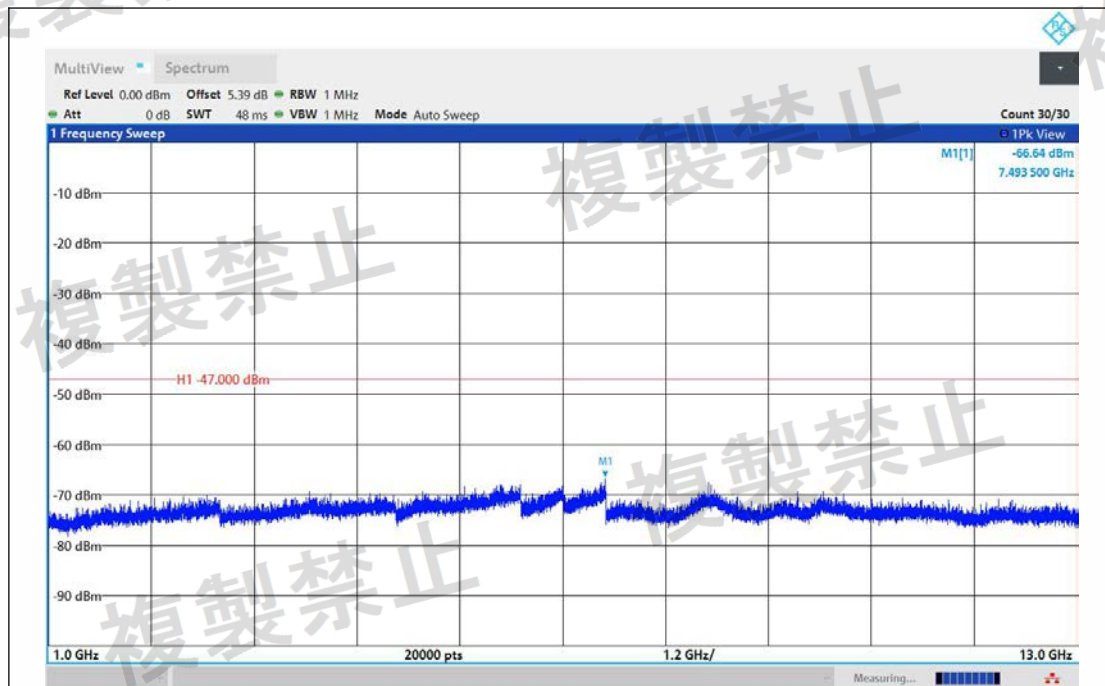
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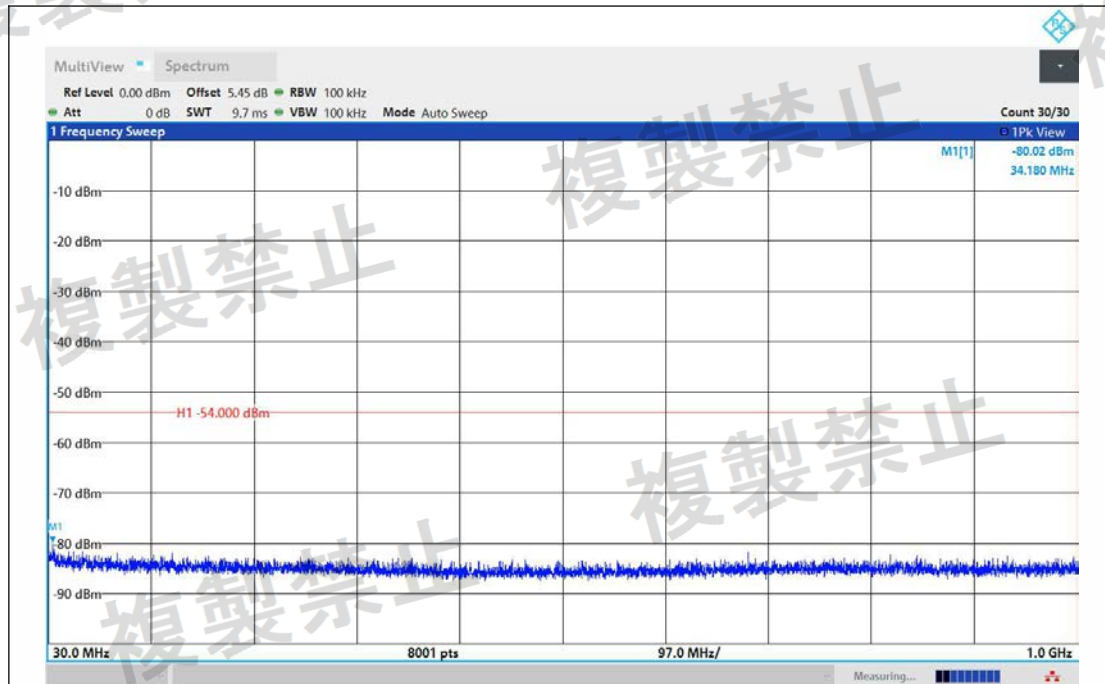


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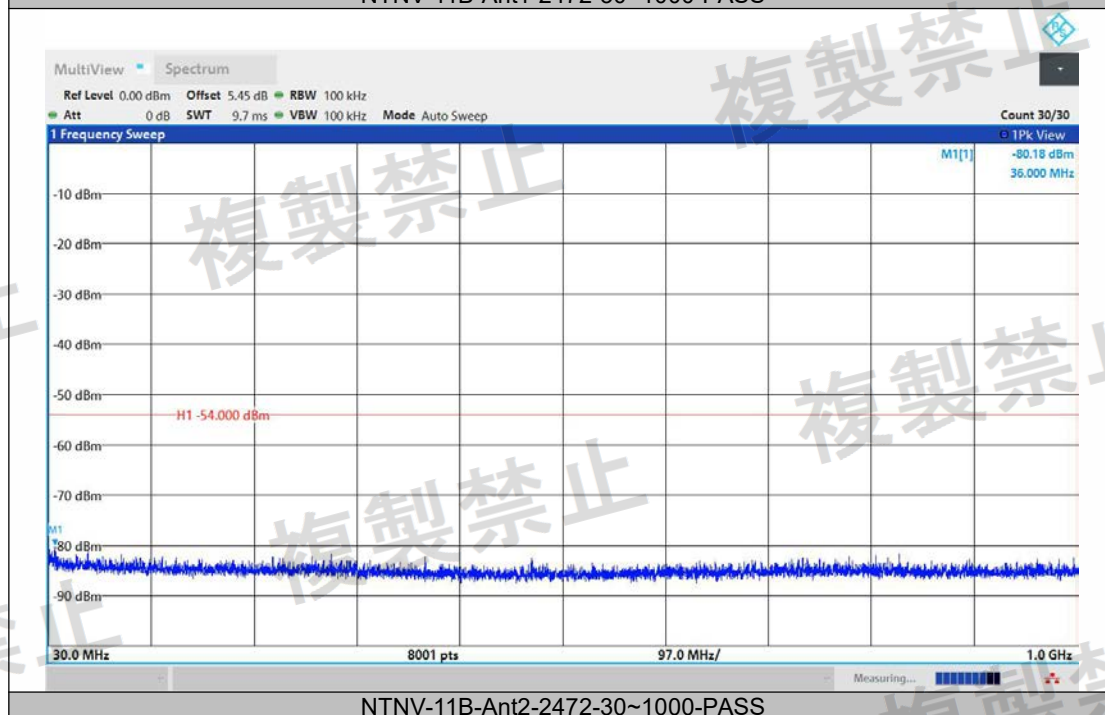


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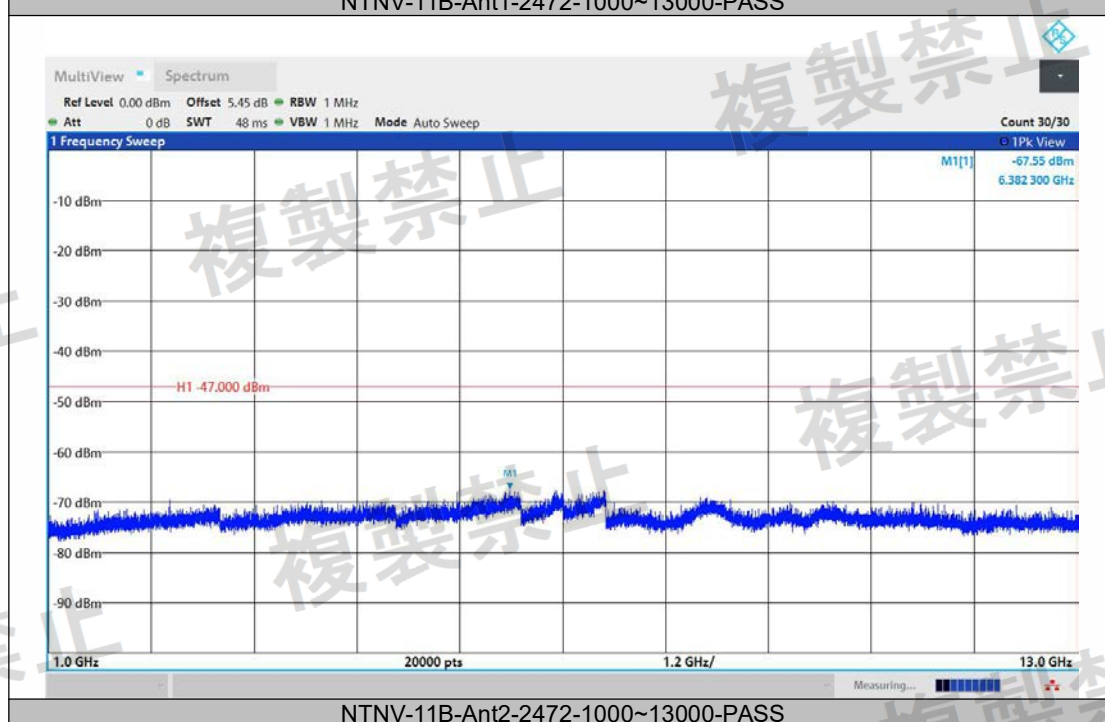
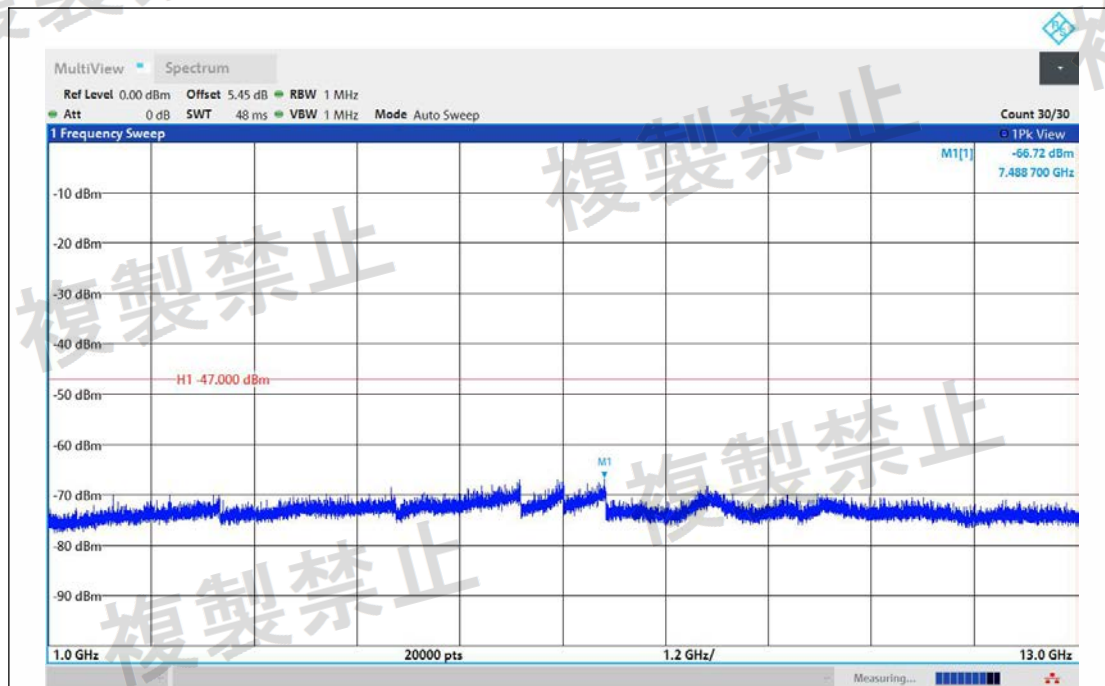


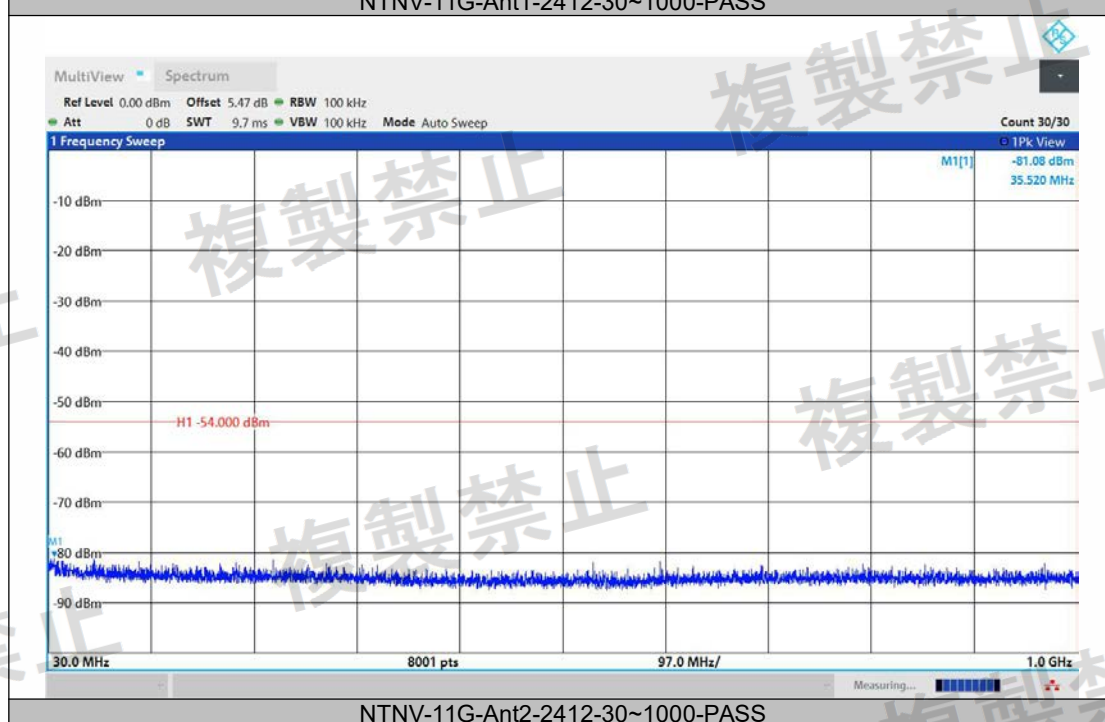
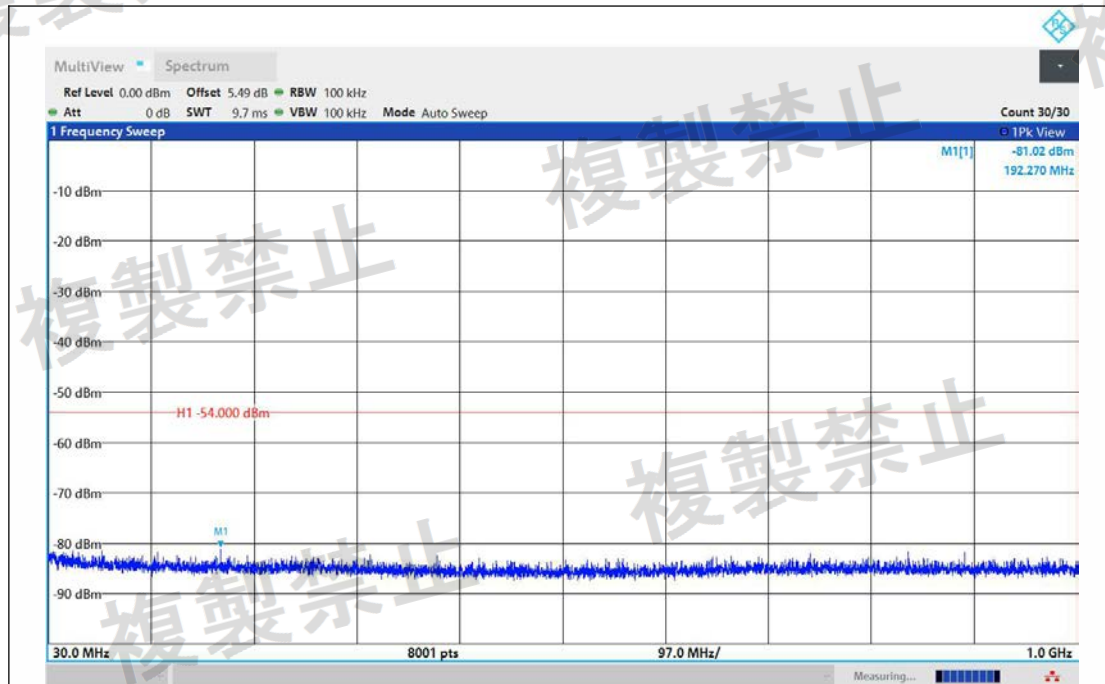


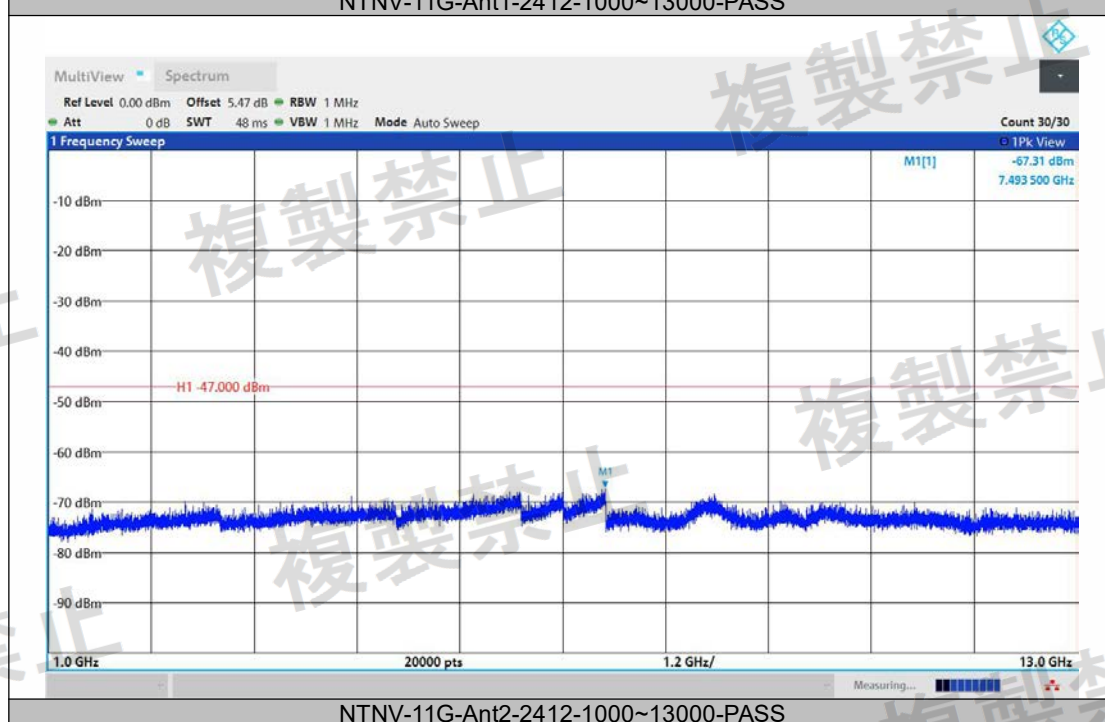
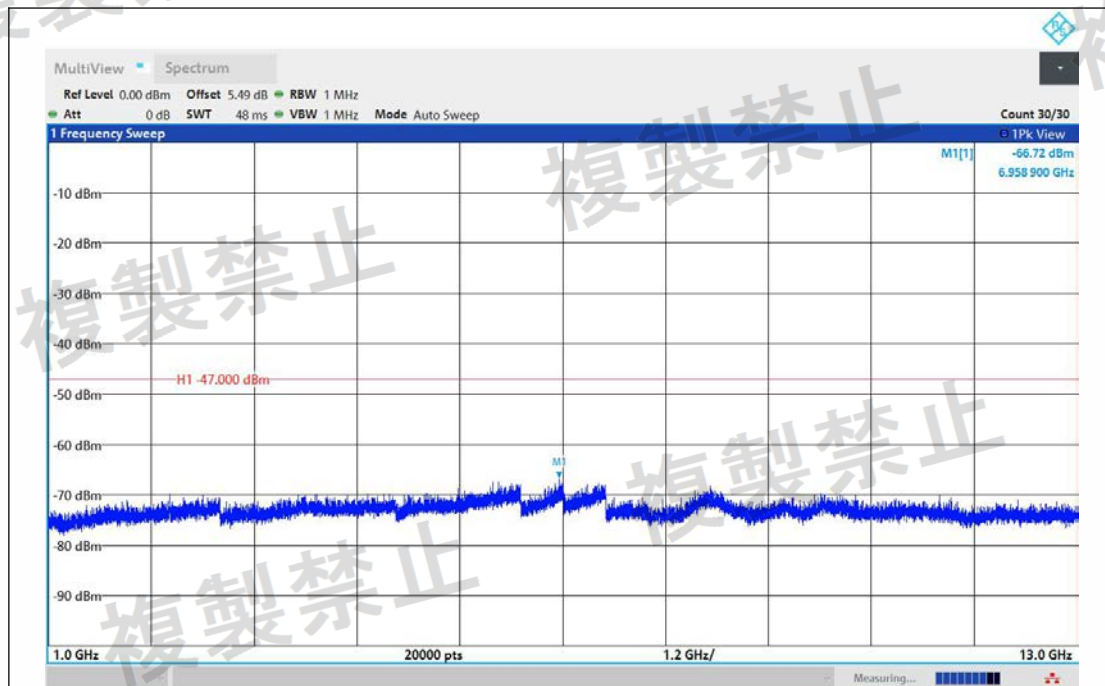
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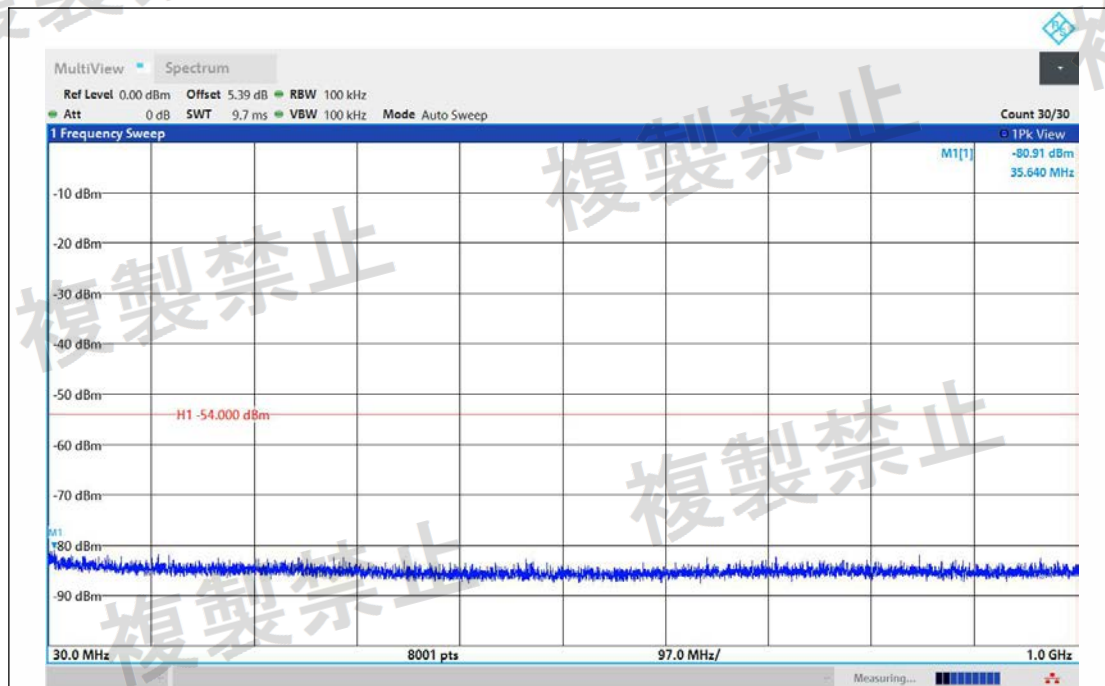


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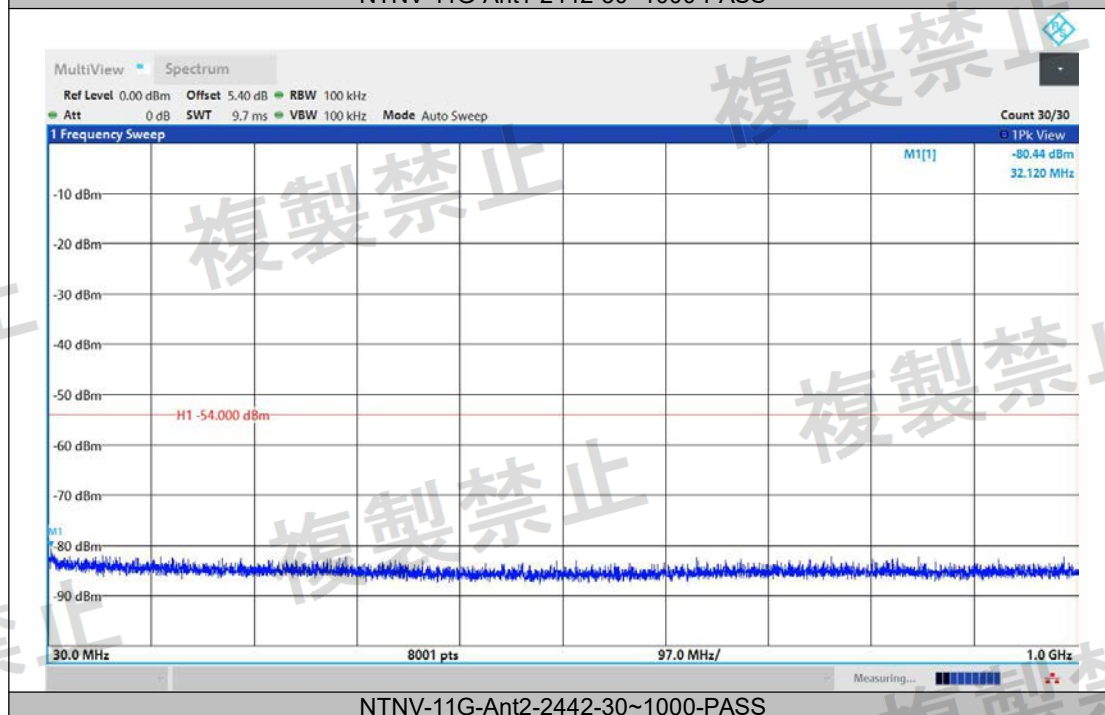




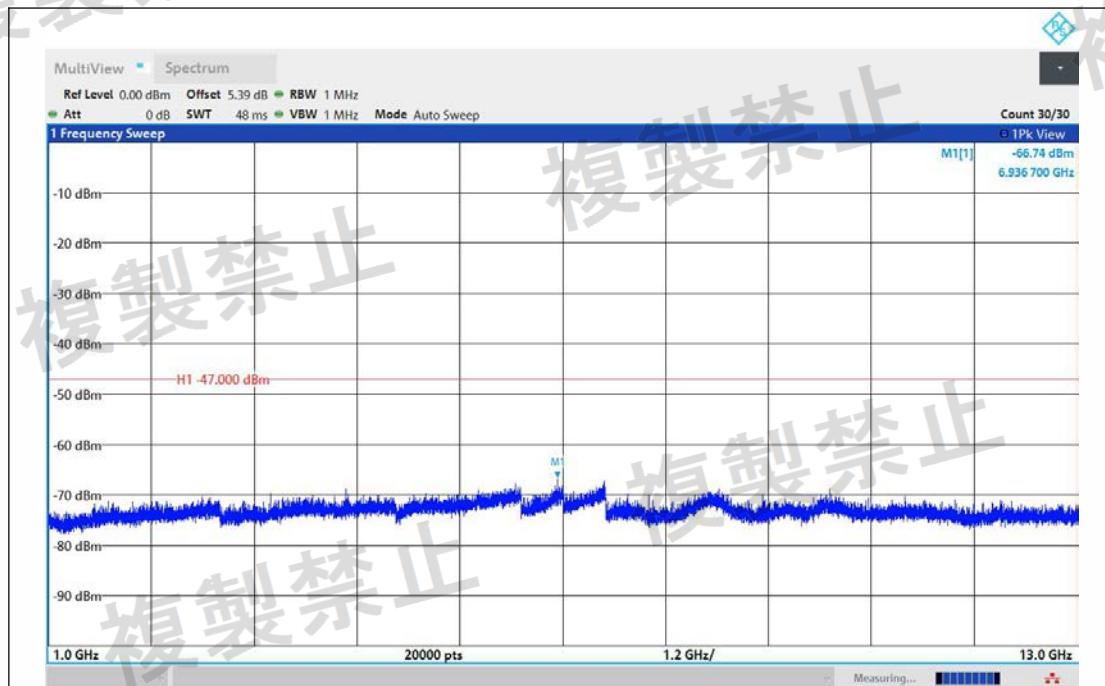




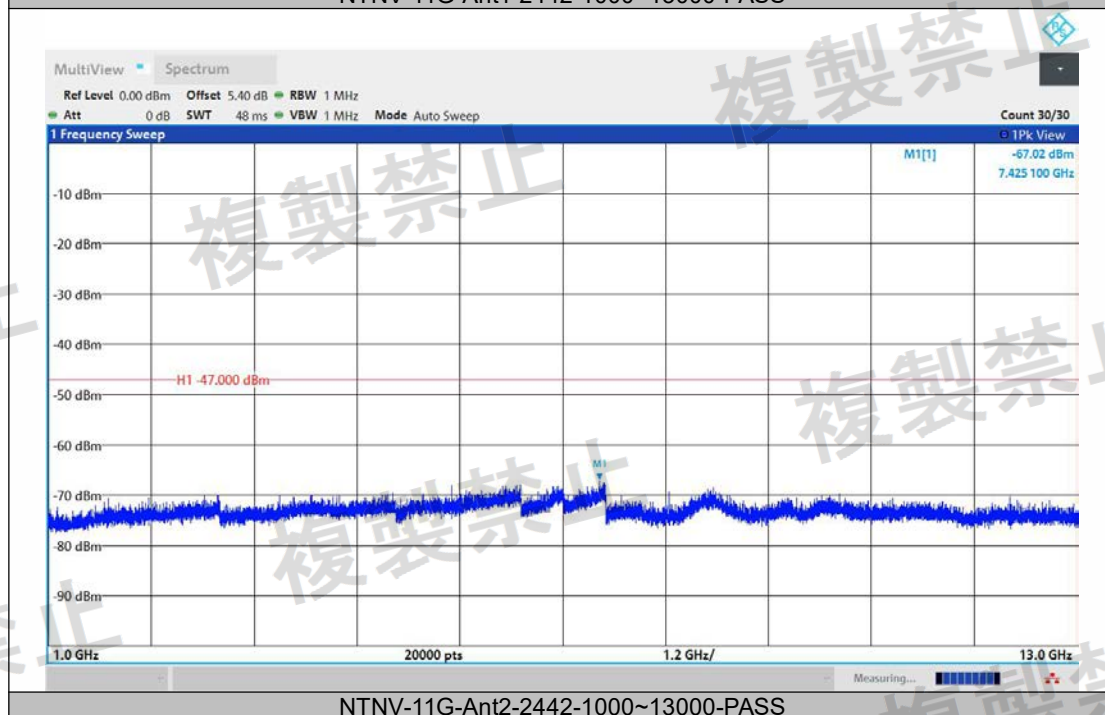
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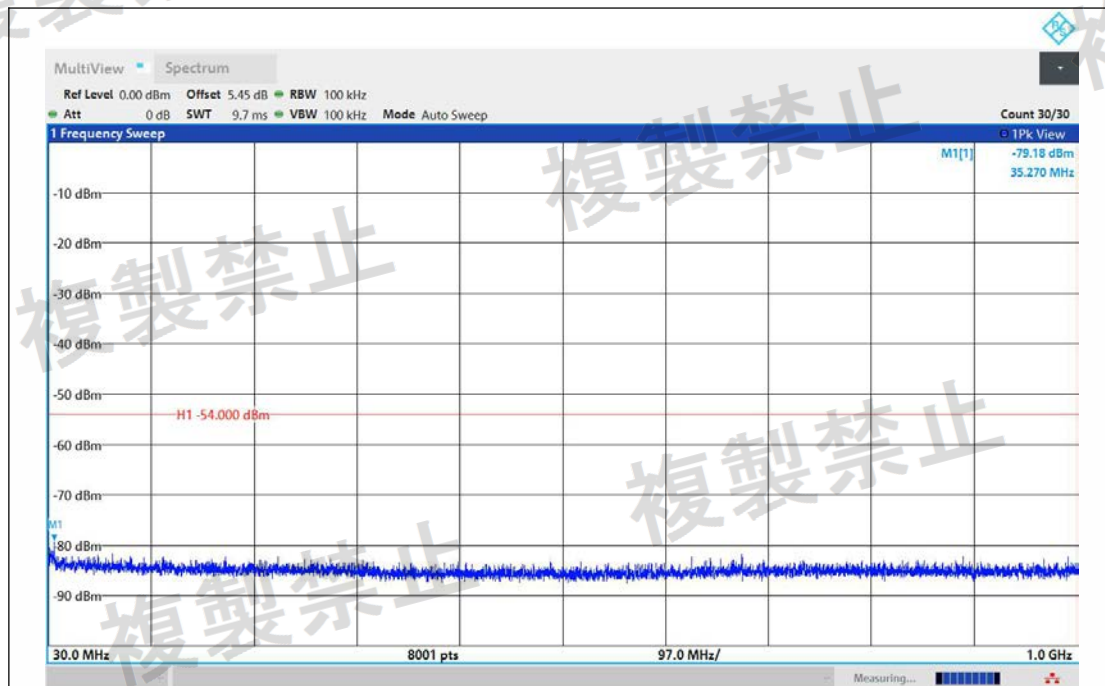
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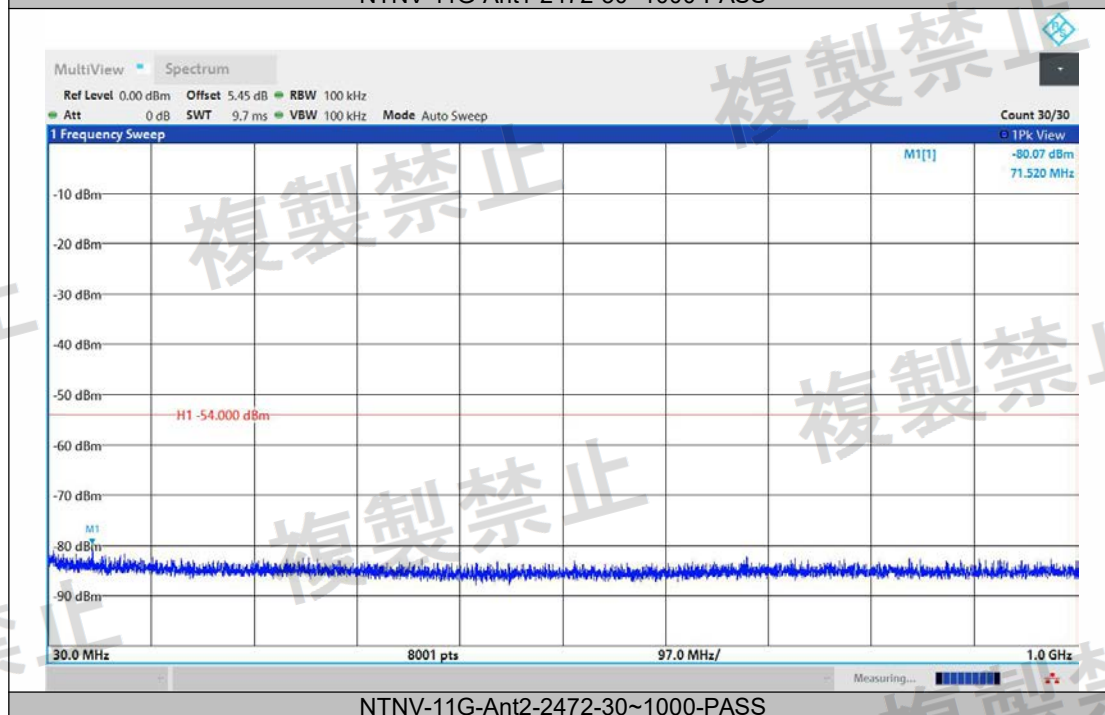
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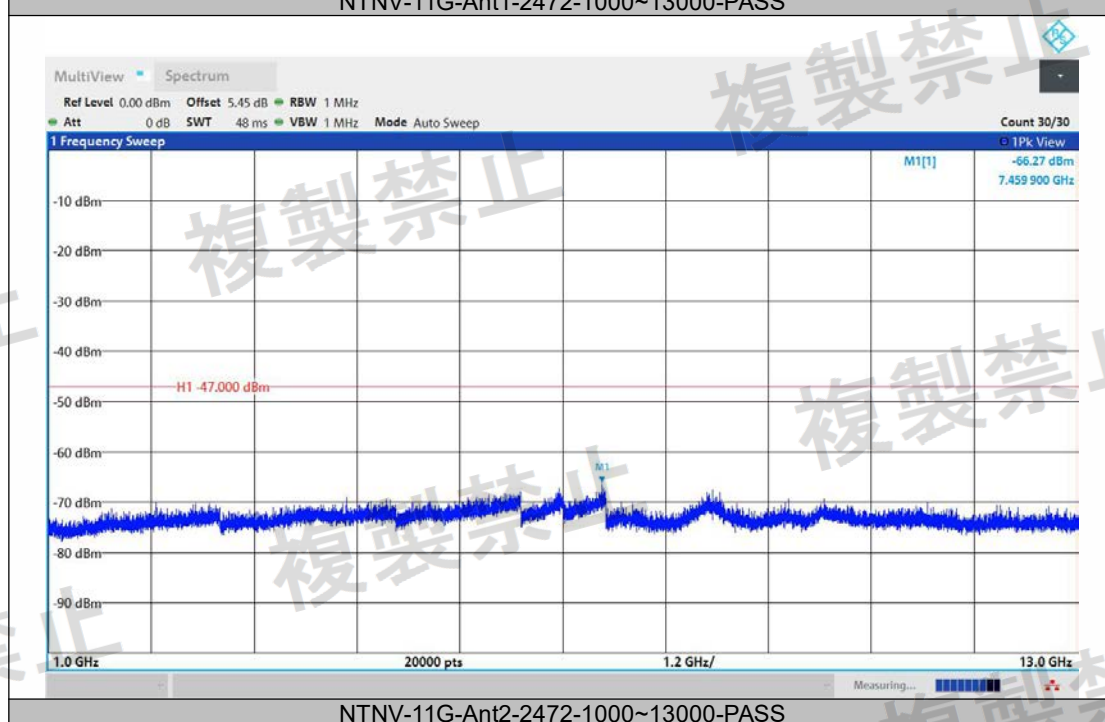
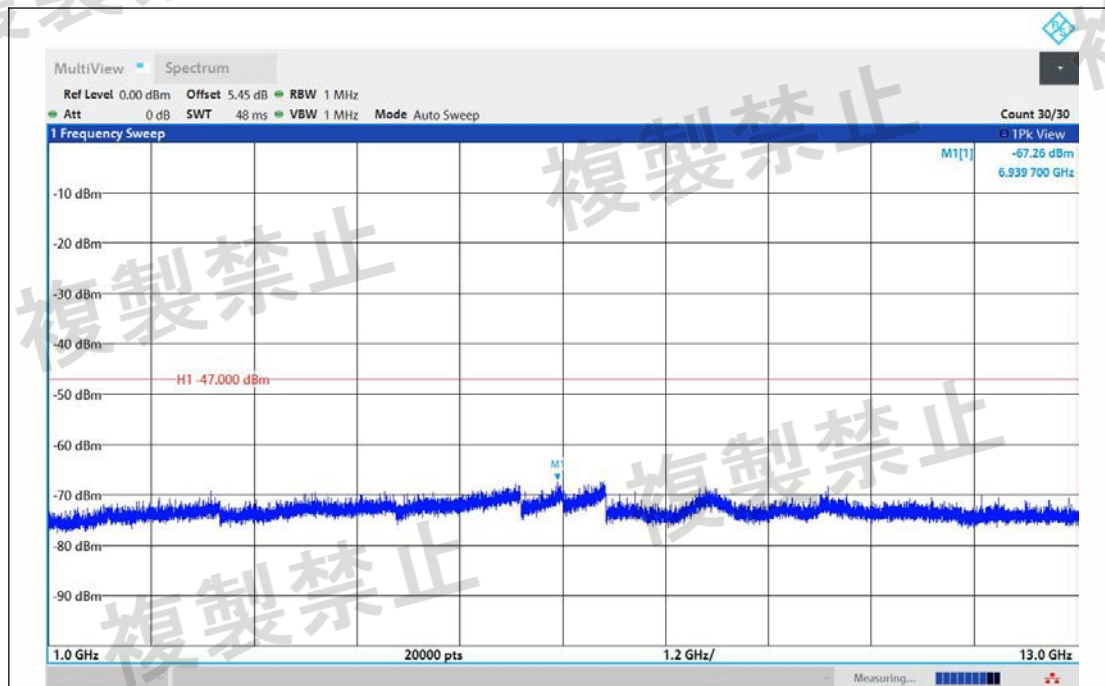
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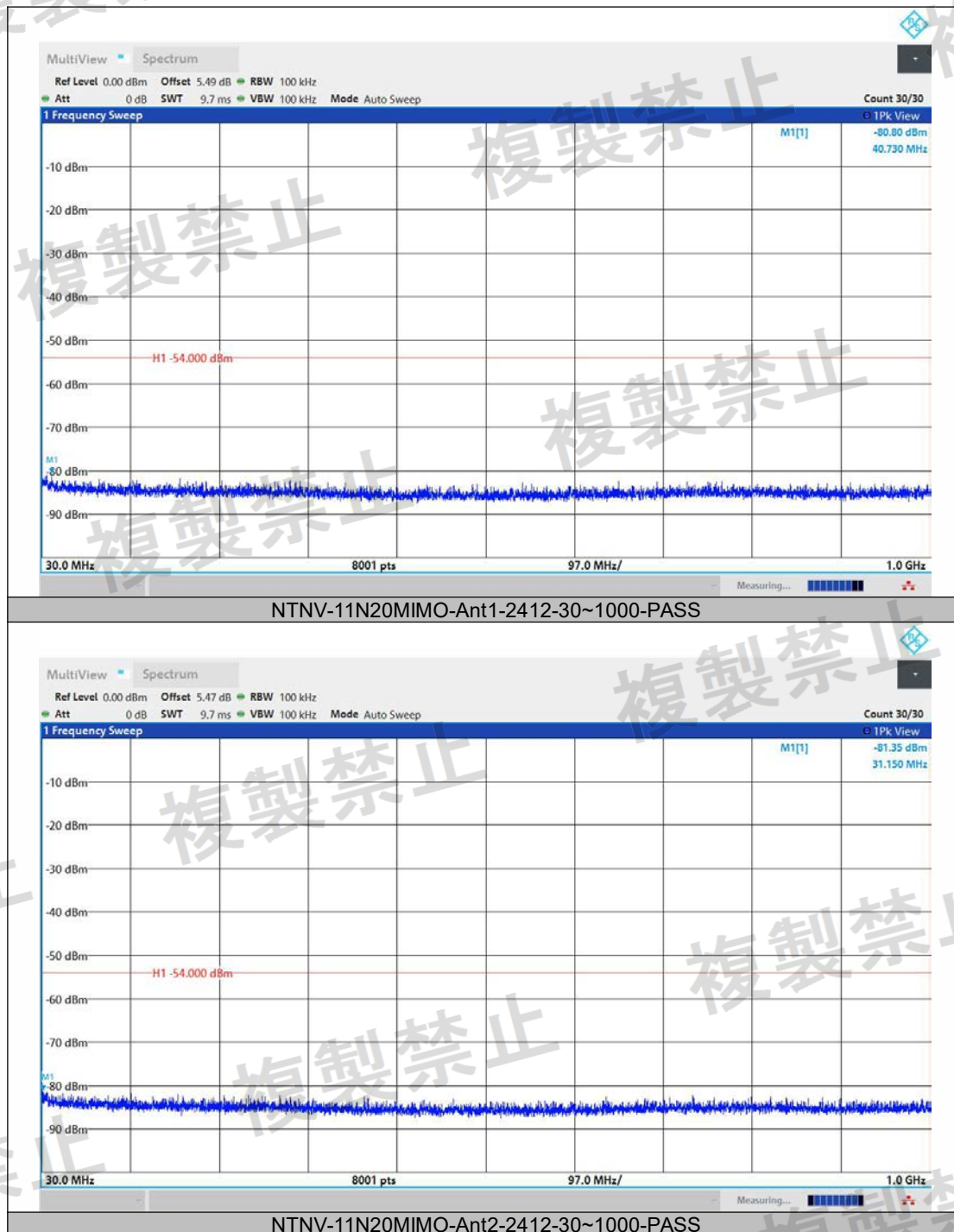


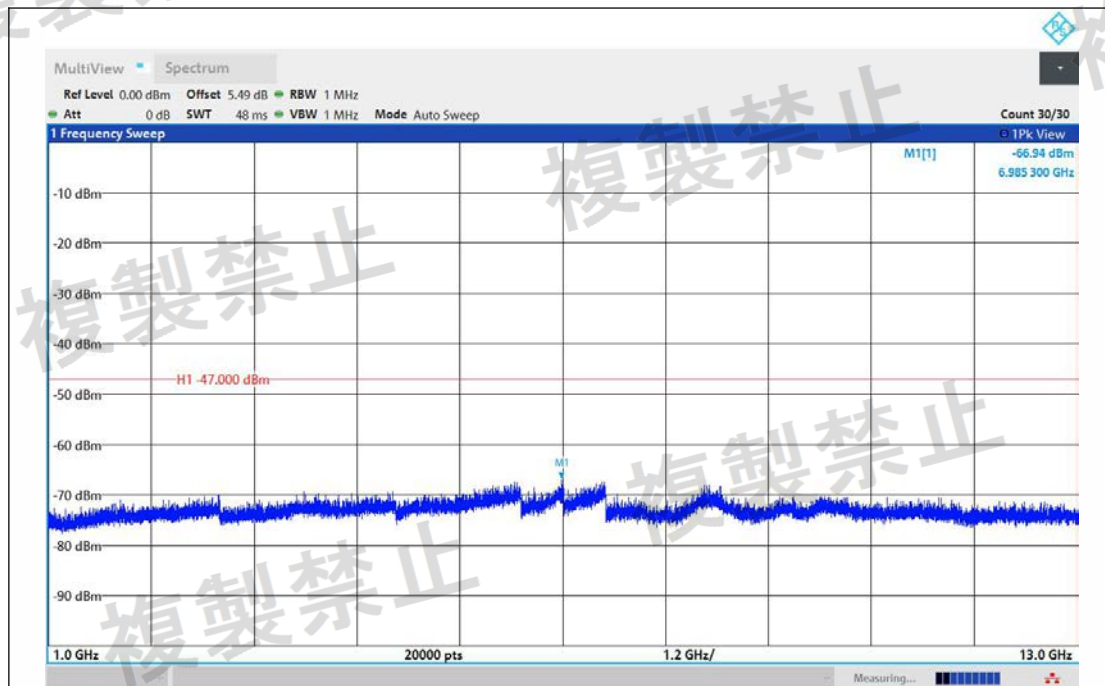
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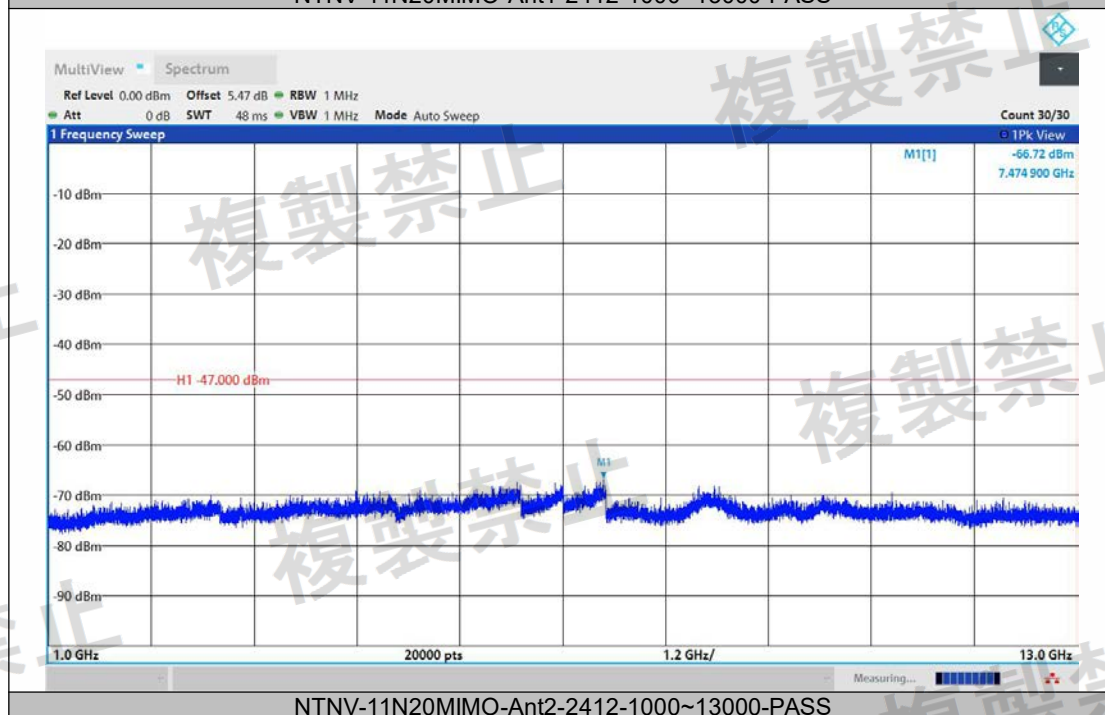
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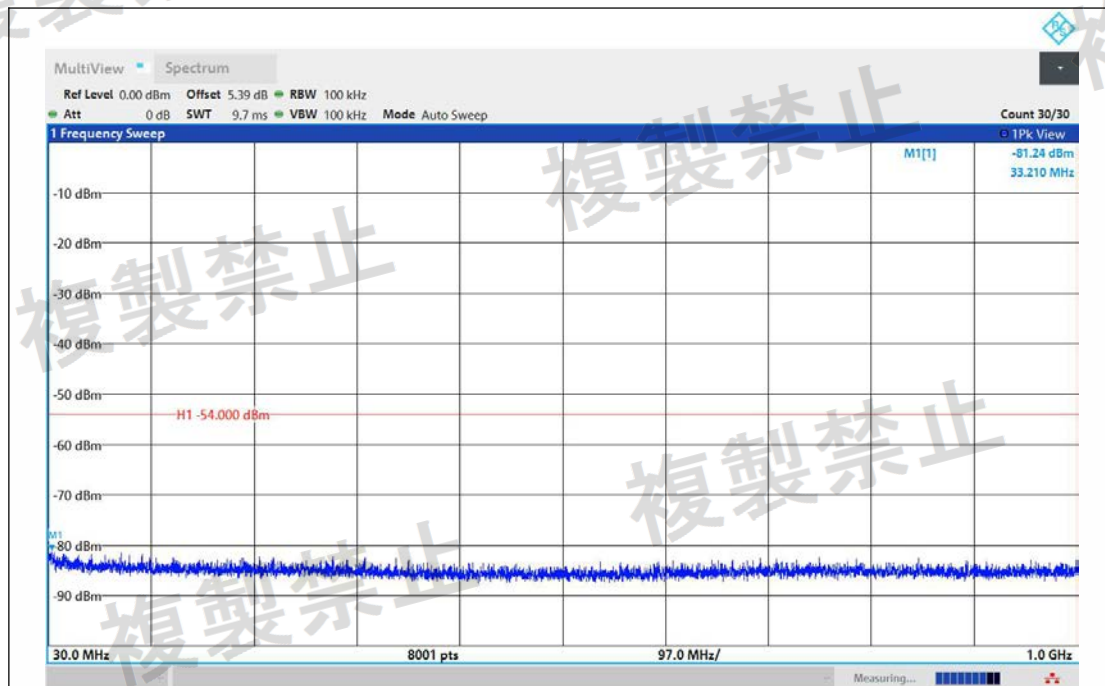




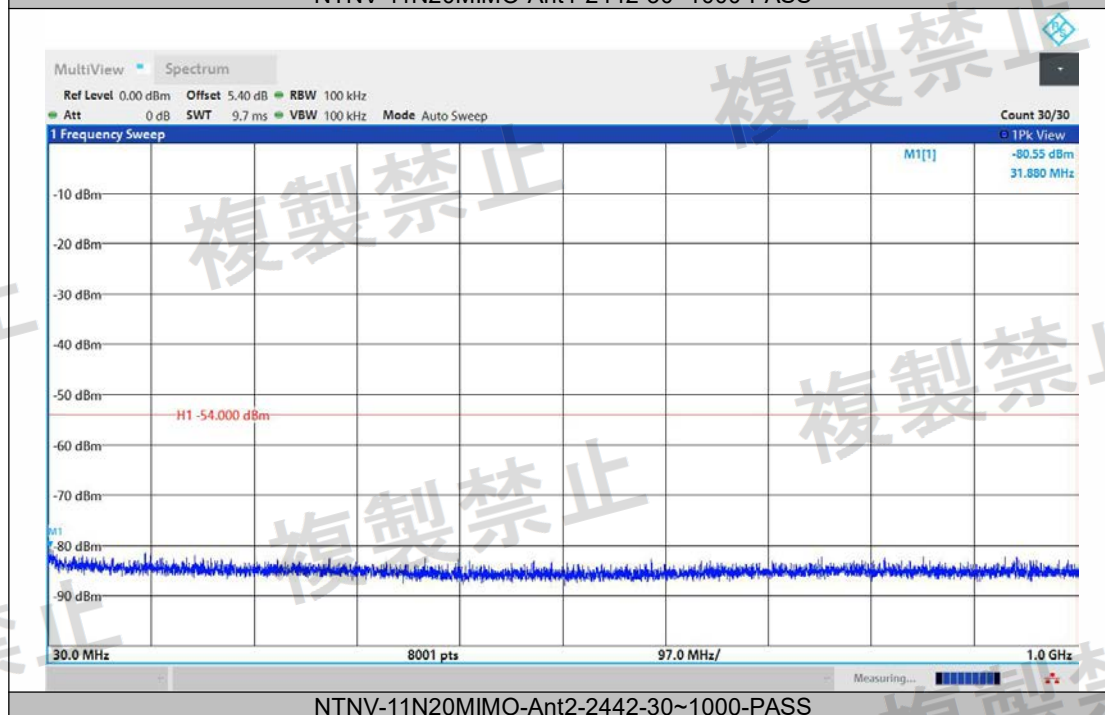
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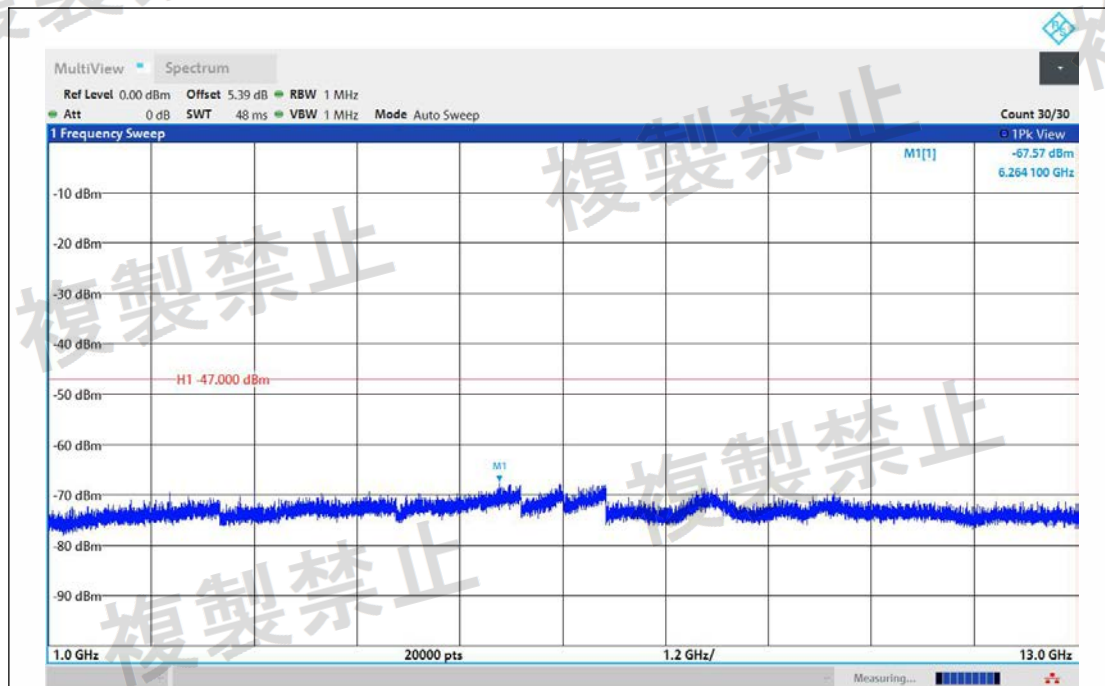
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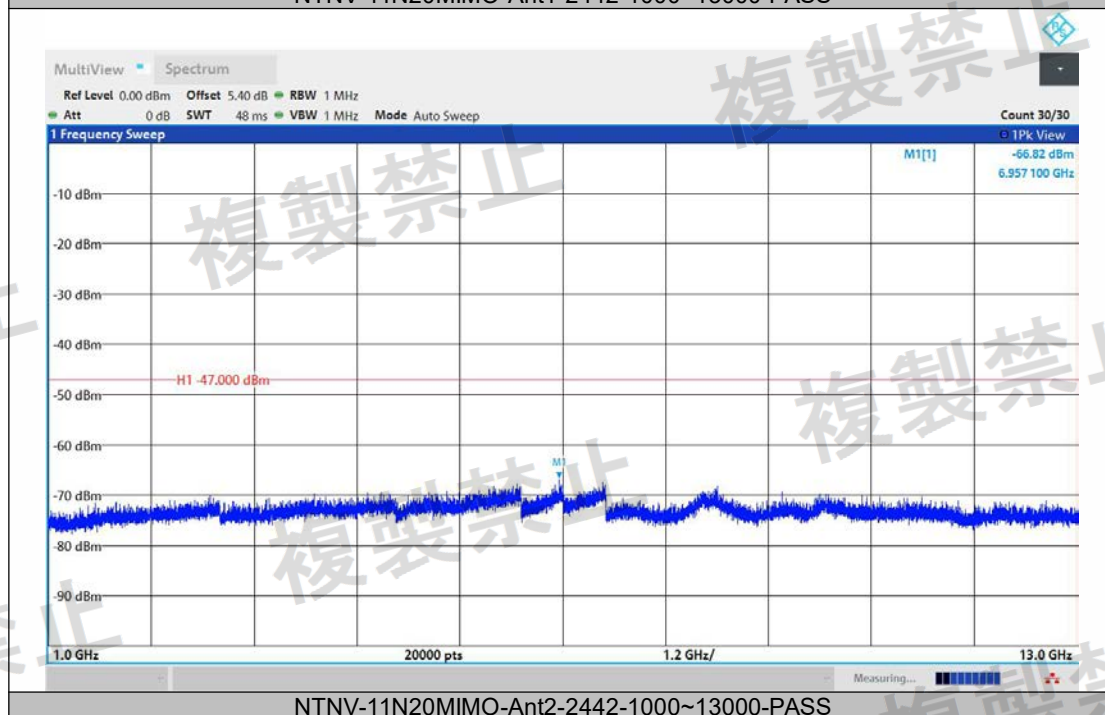
NTNV-11N20MIMO-Ant1-2442-30~1000-PASS



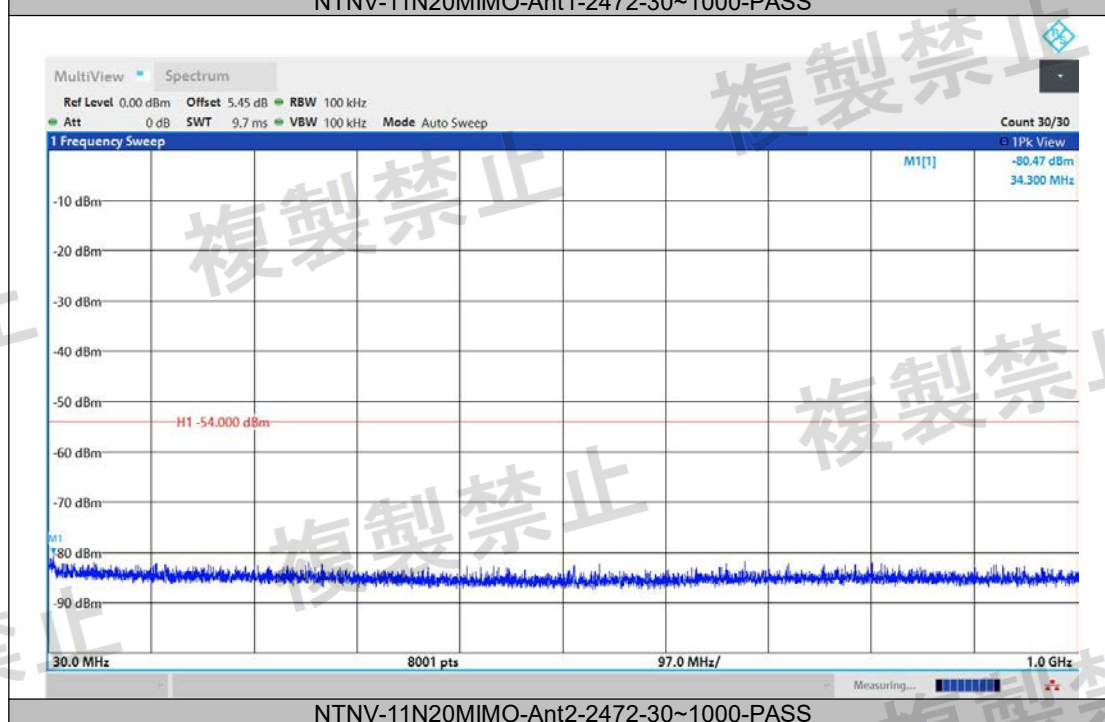
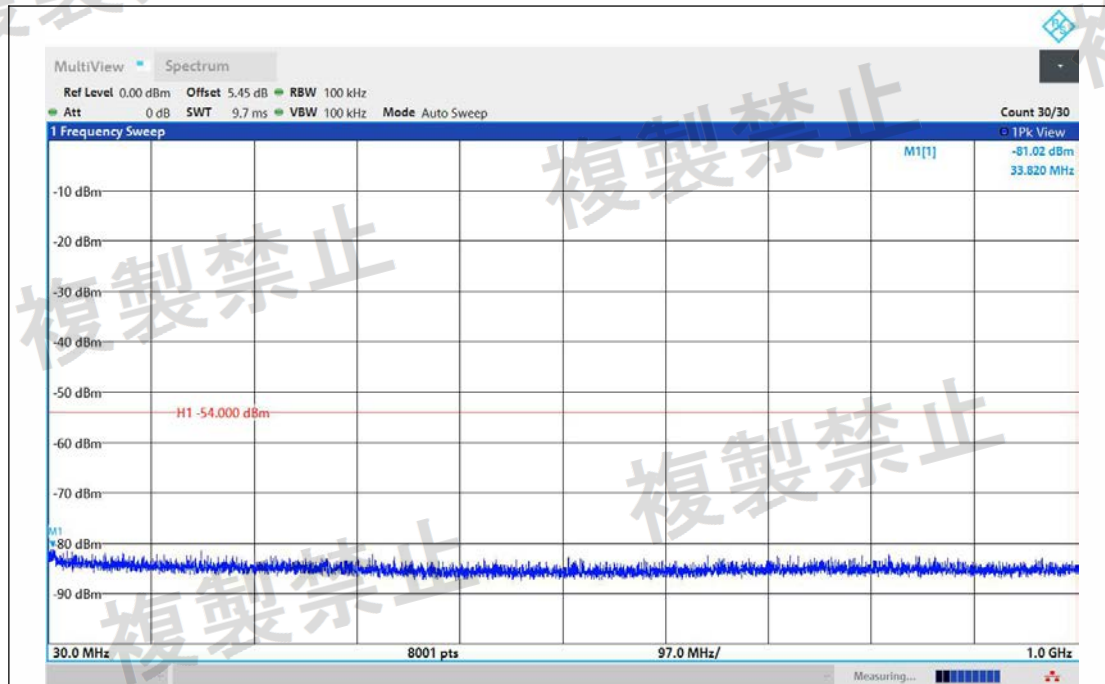
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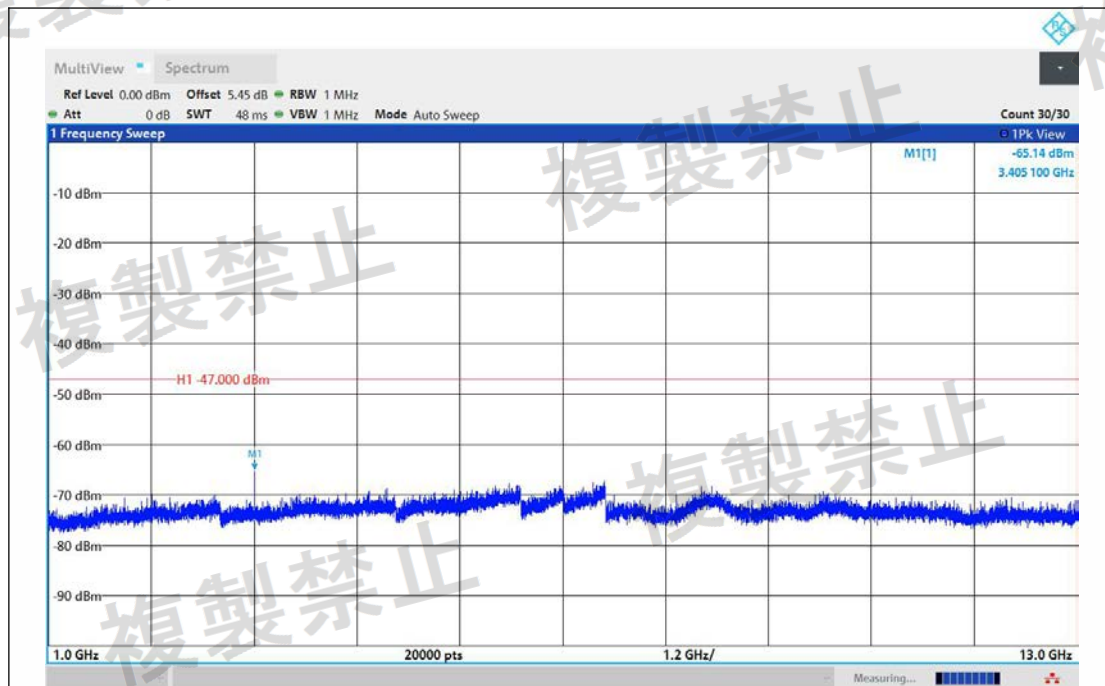


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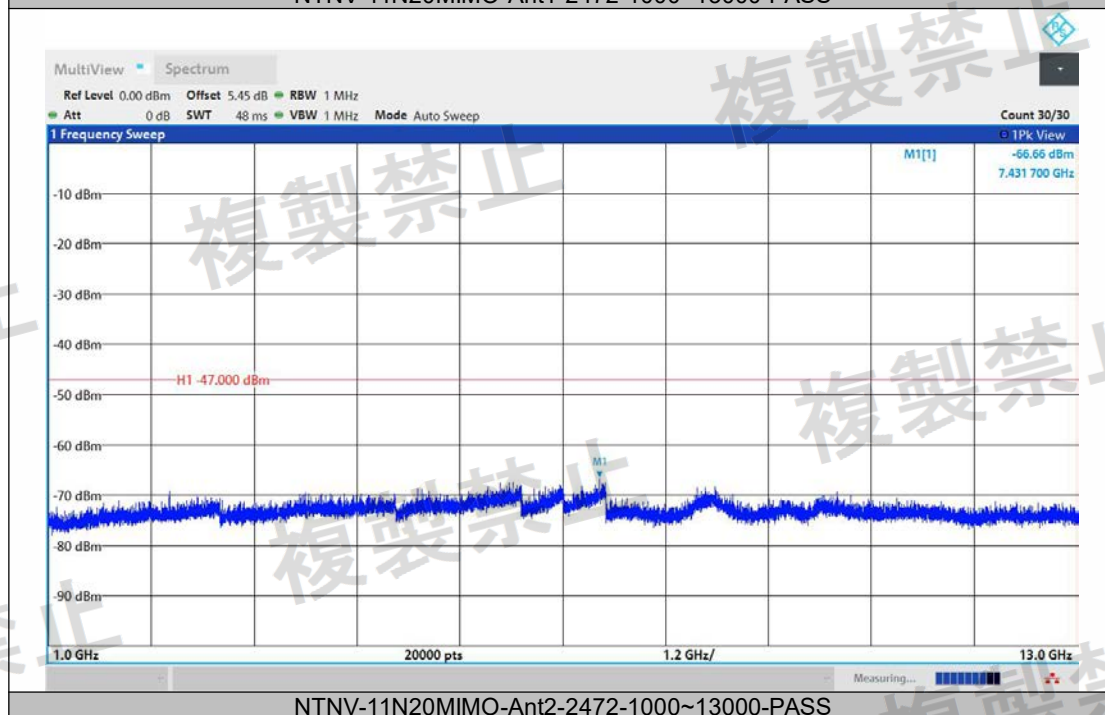


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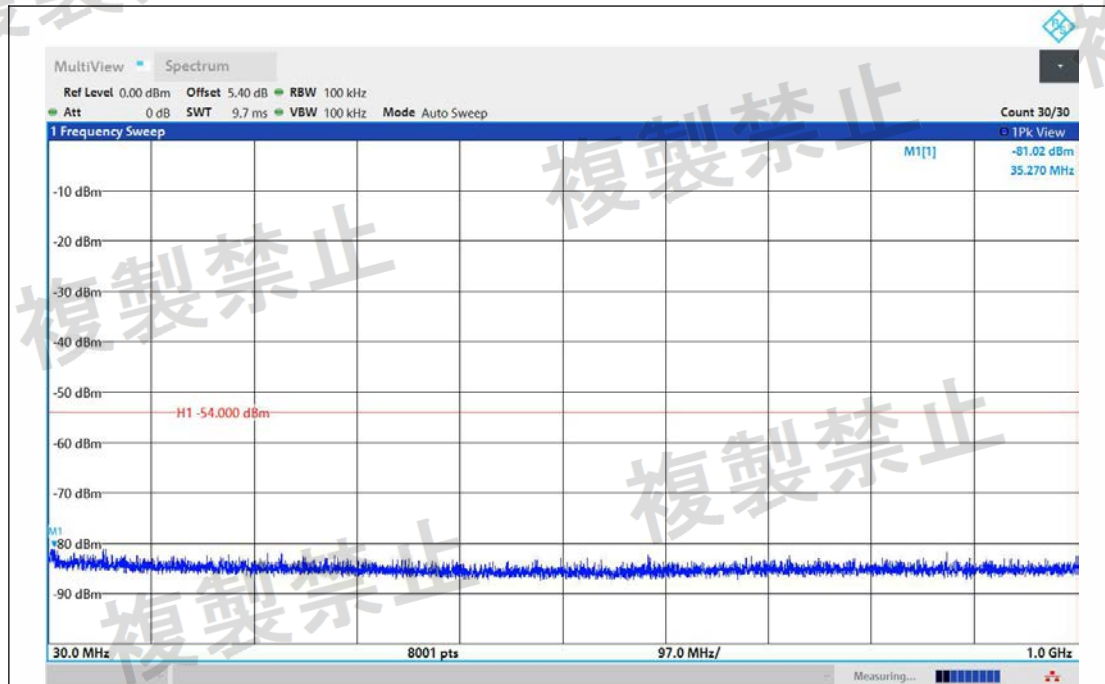




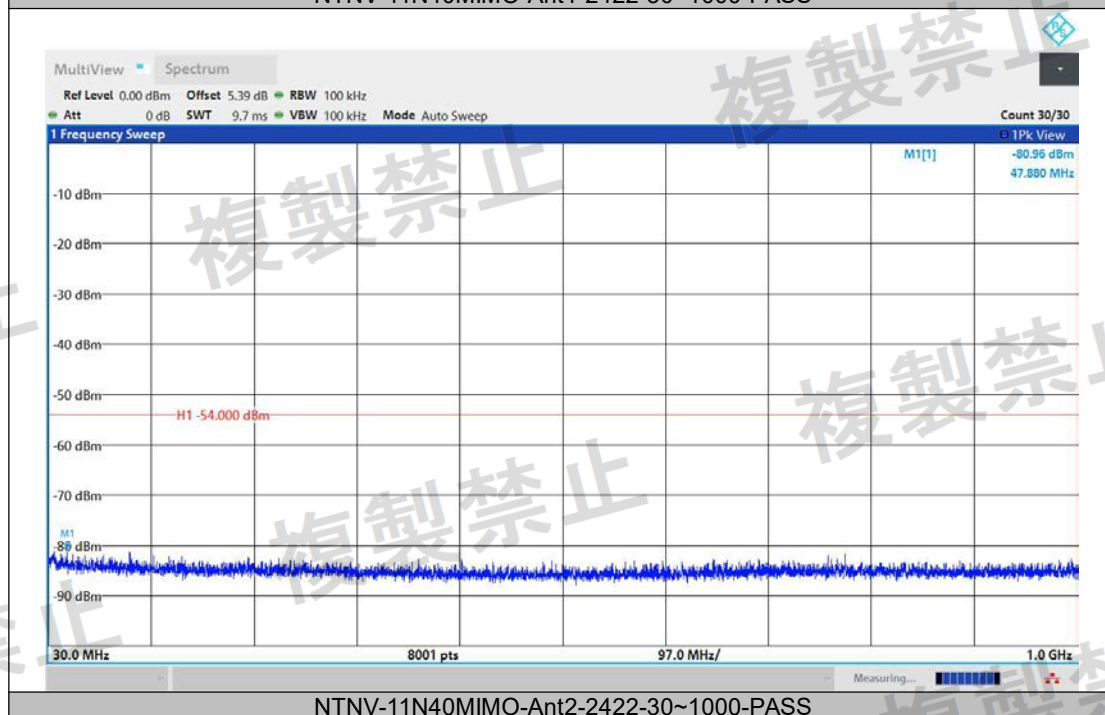
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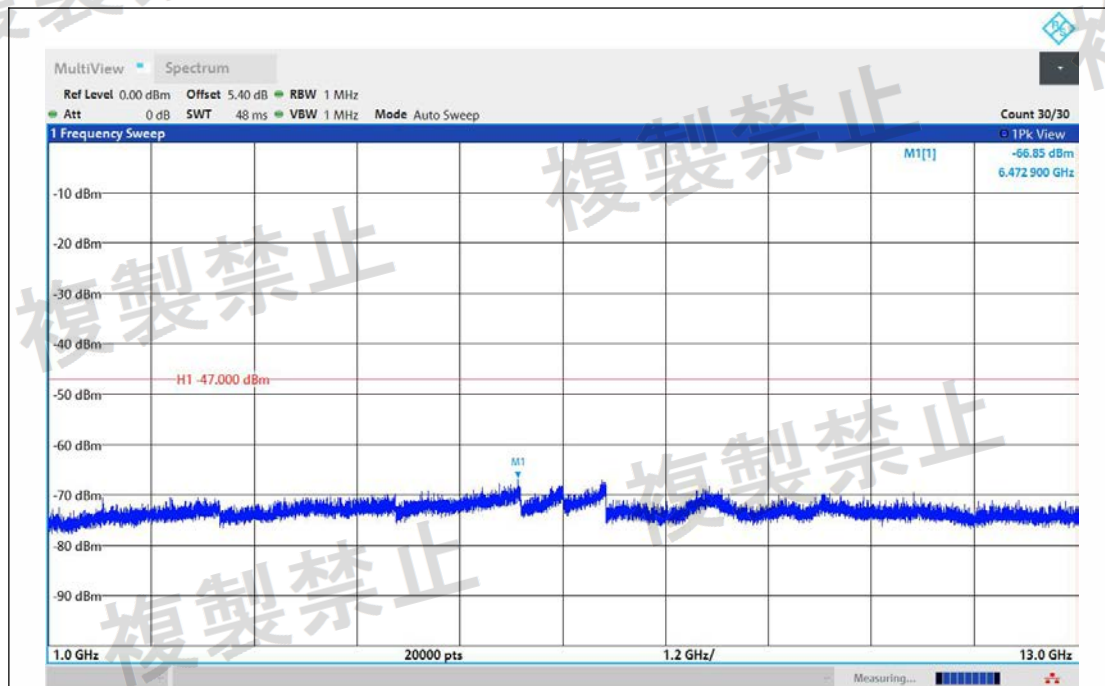
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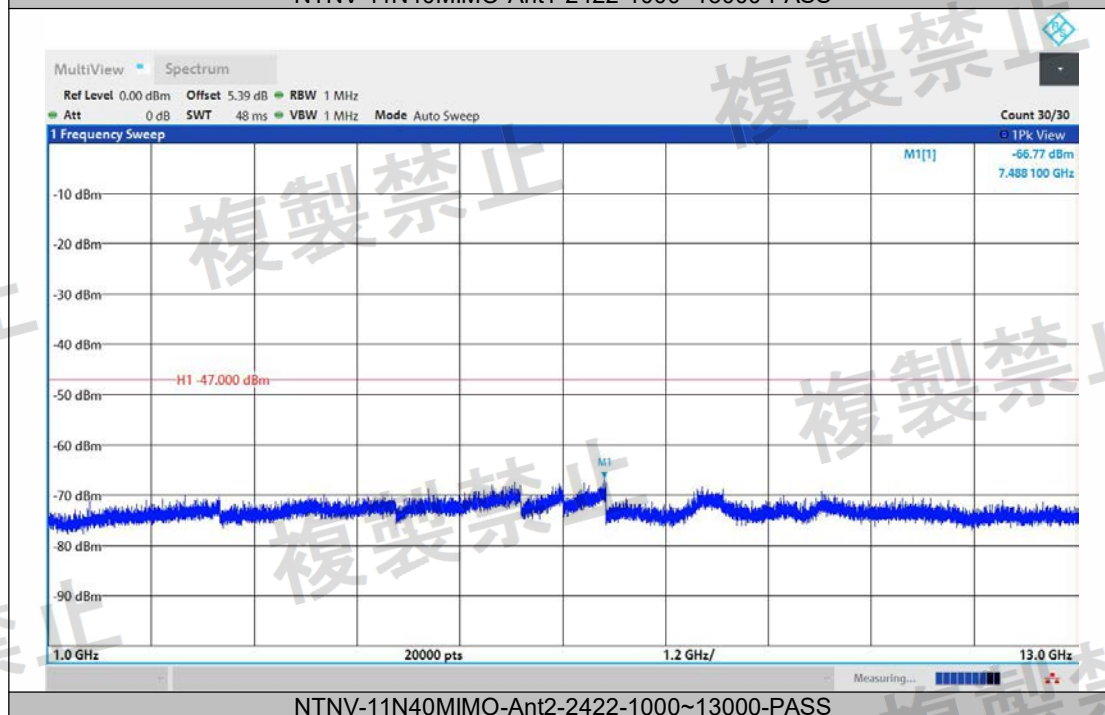
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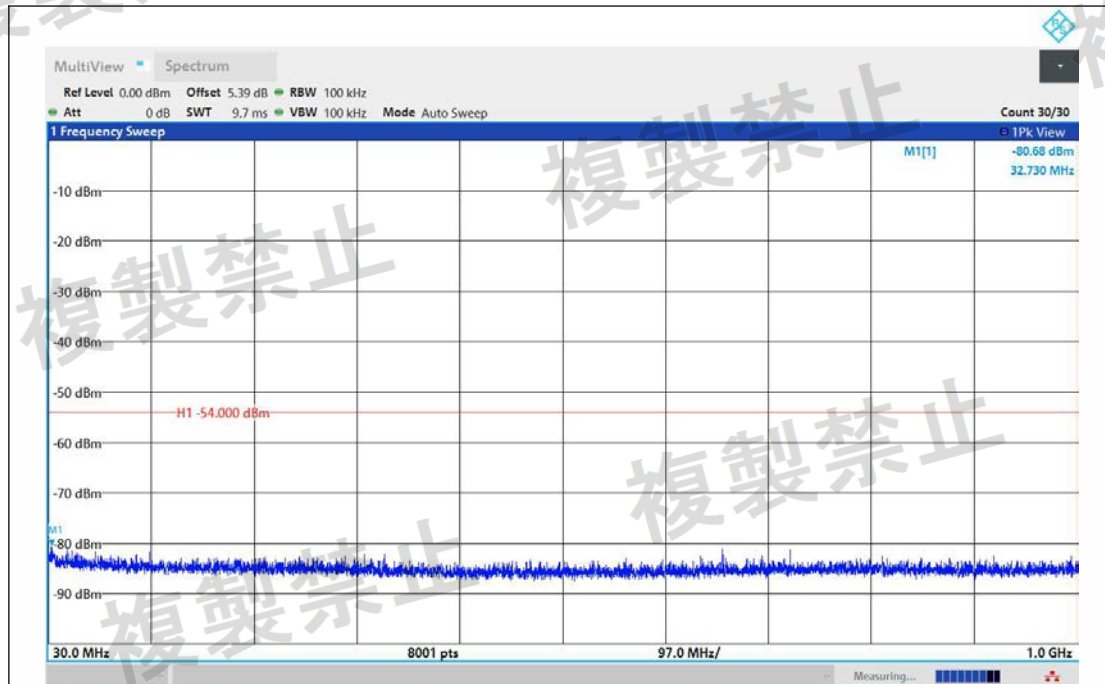
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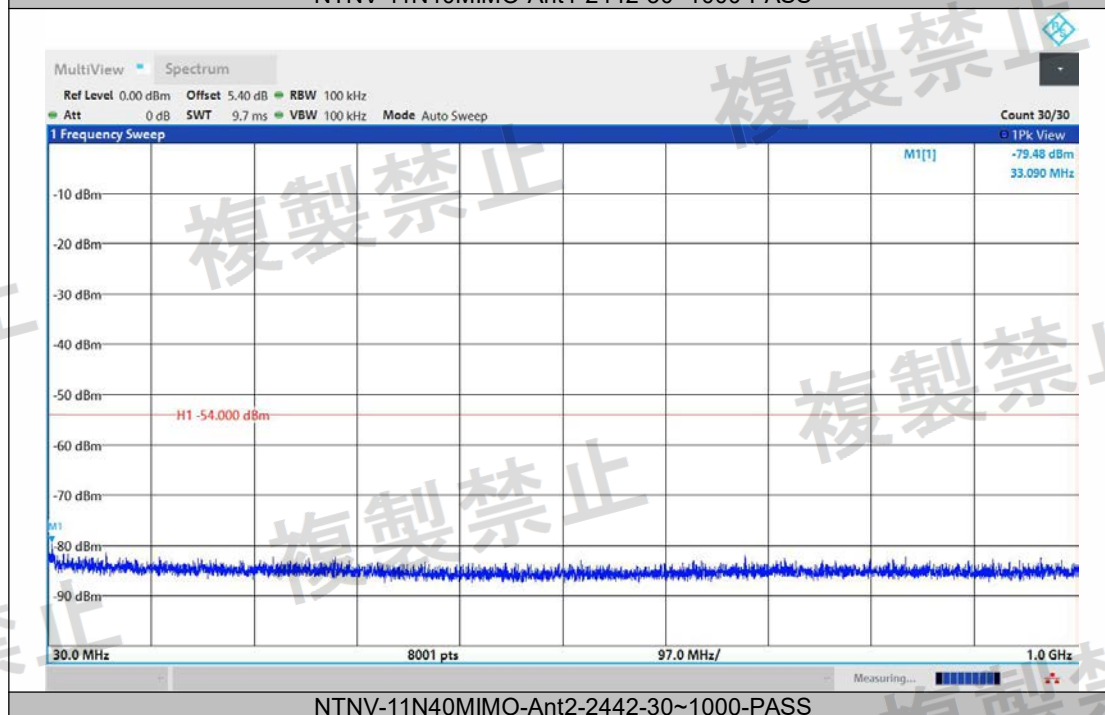
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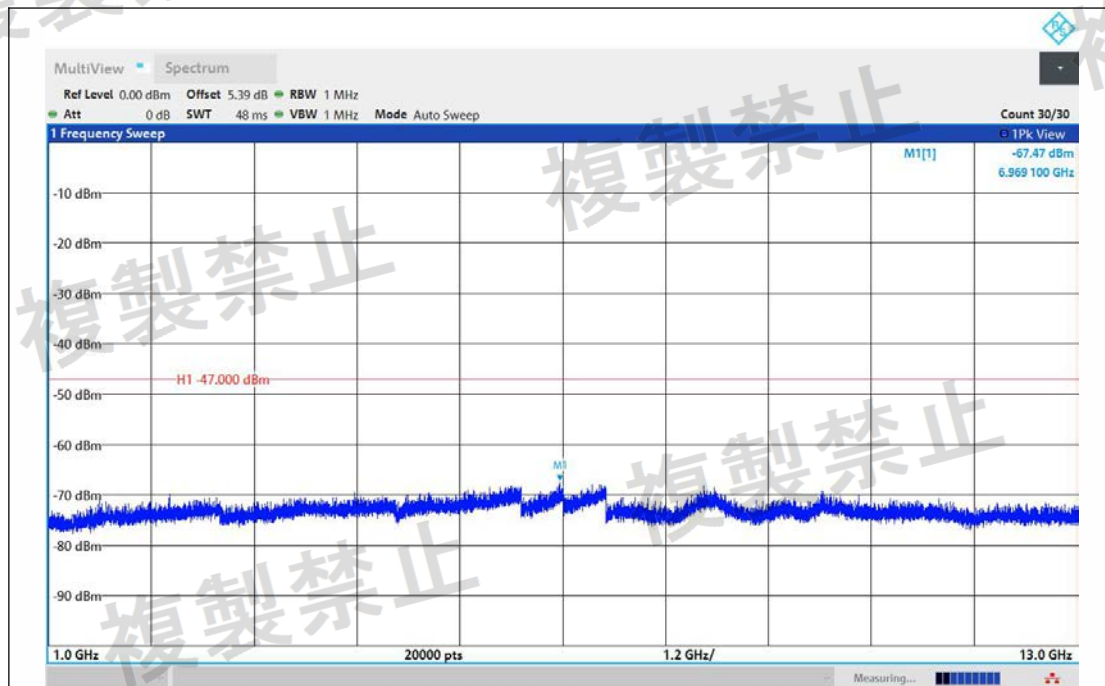
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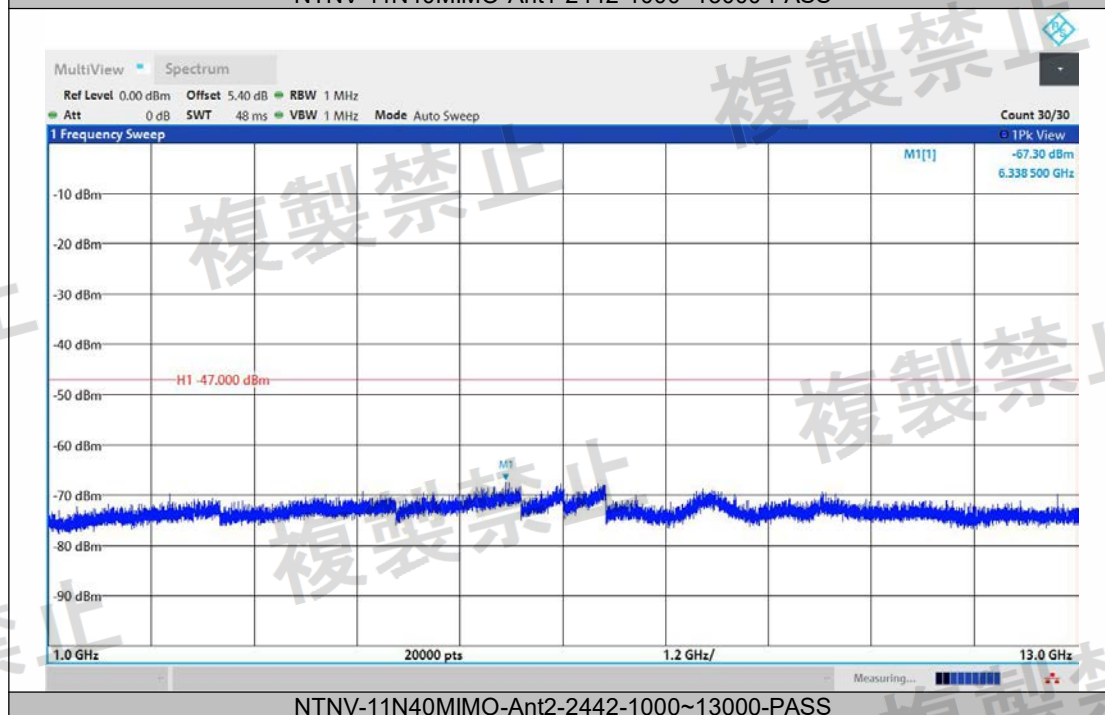
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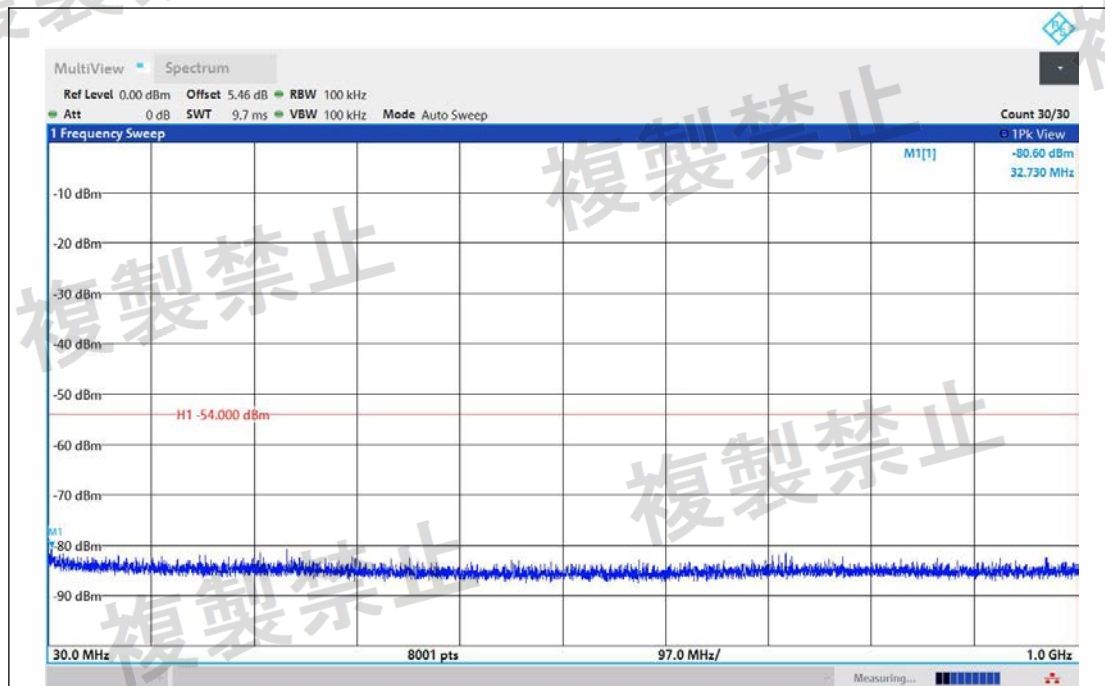
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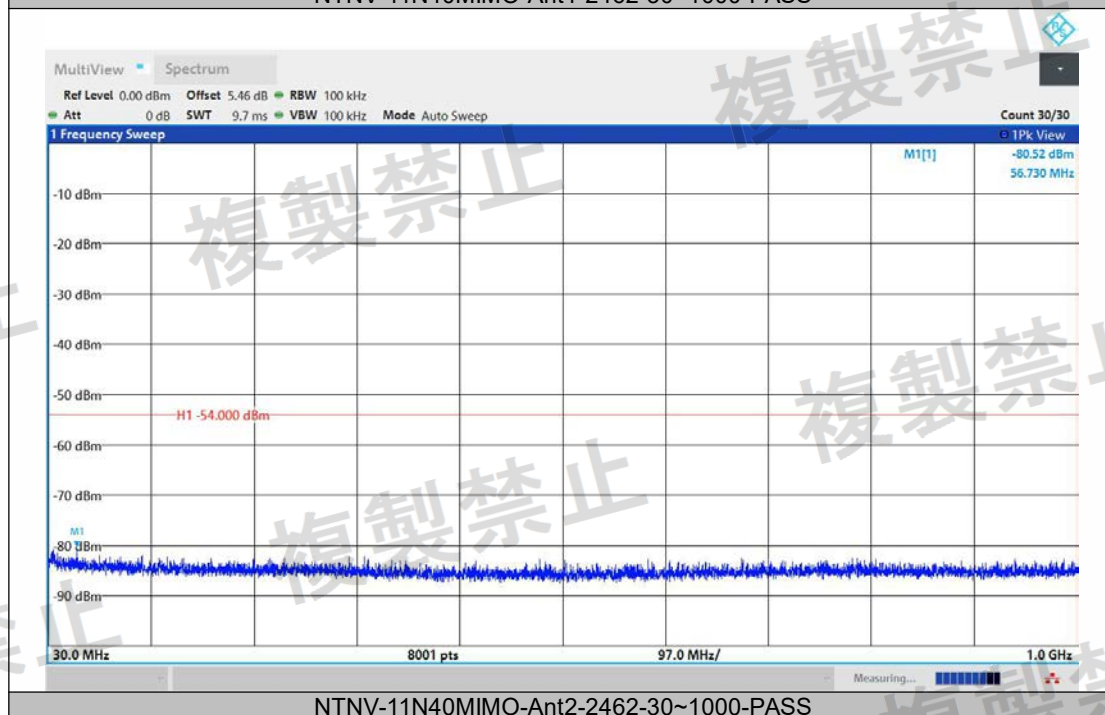
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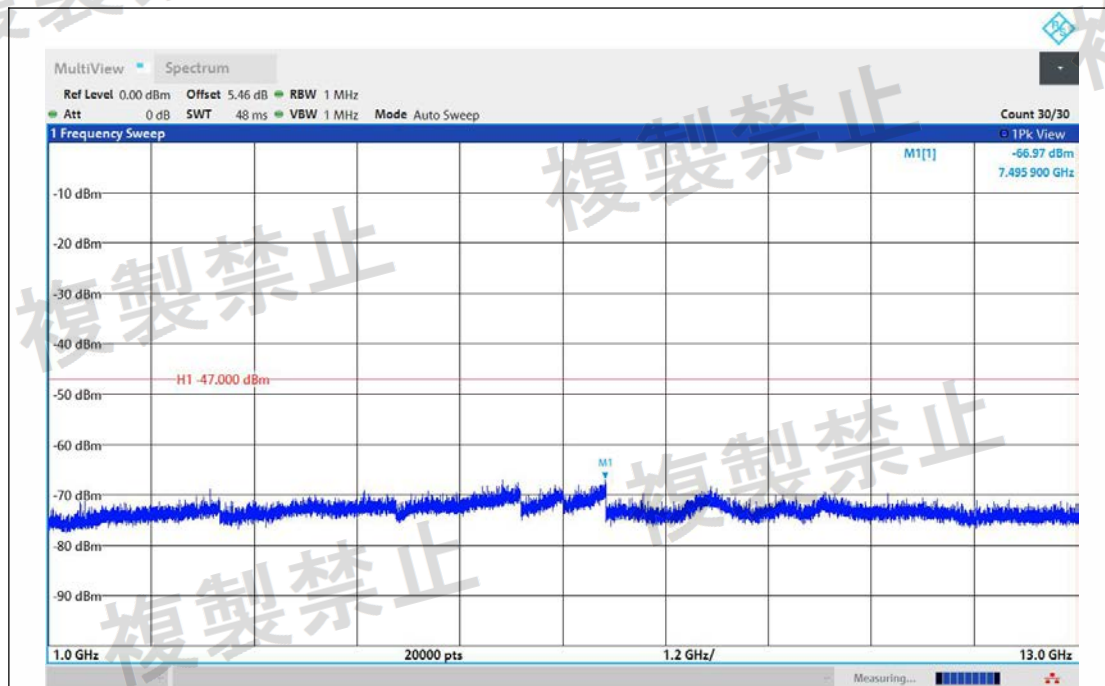
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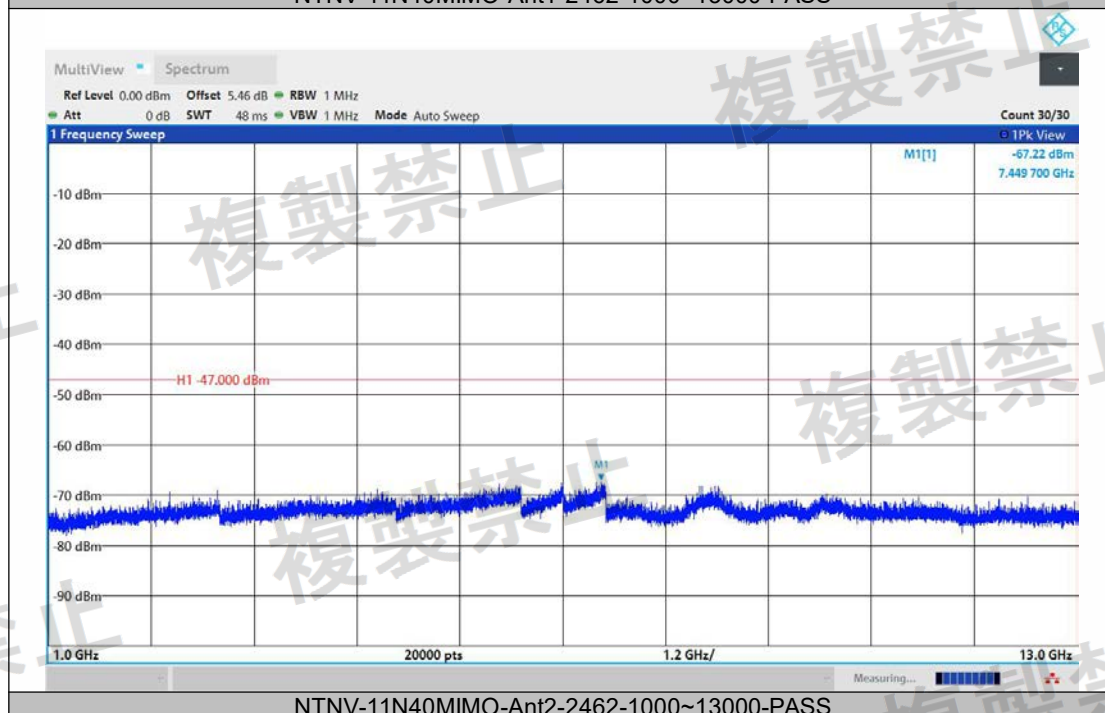
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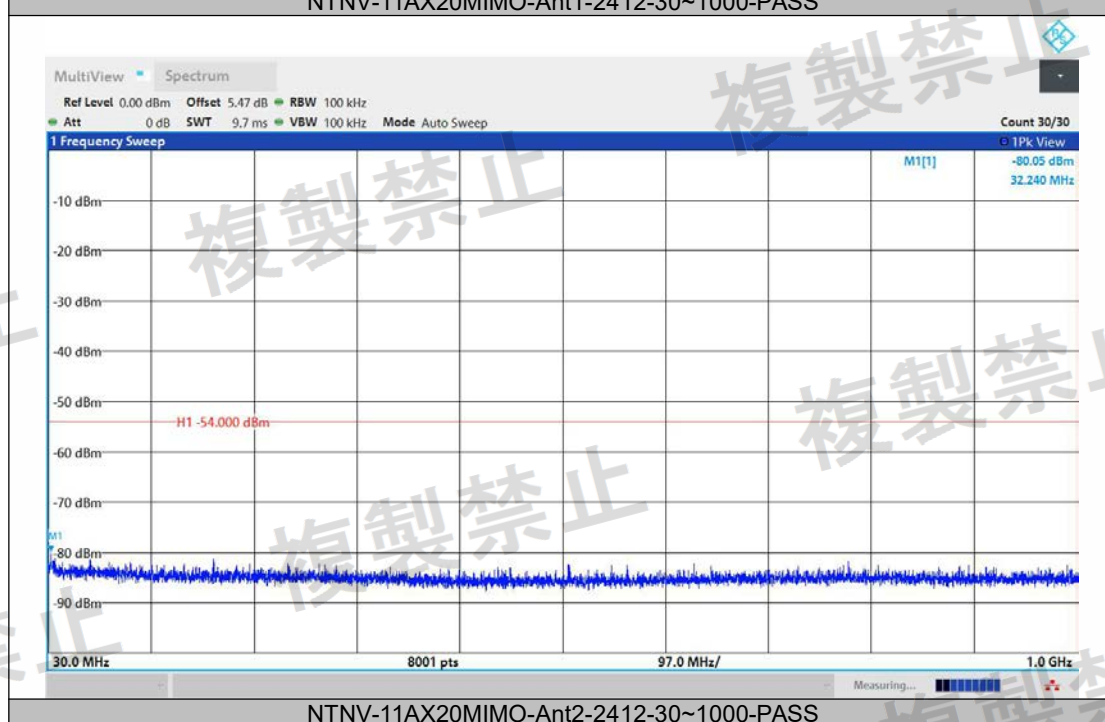
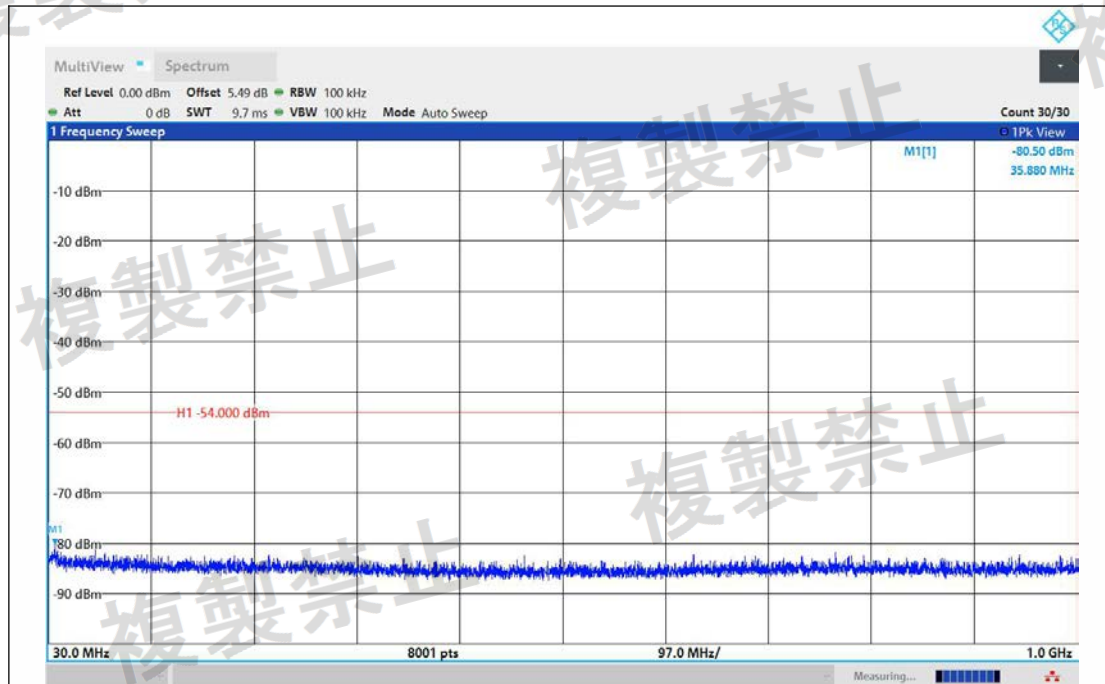
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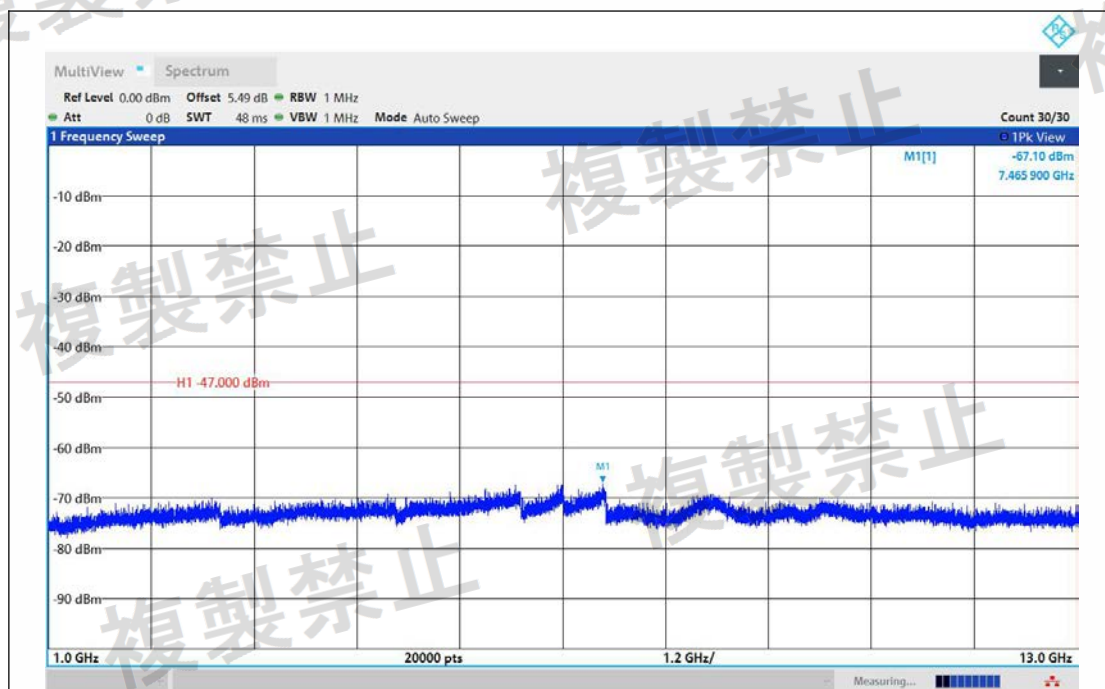


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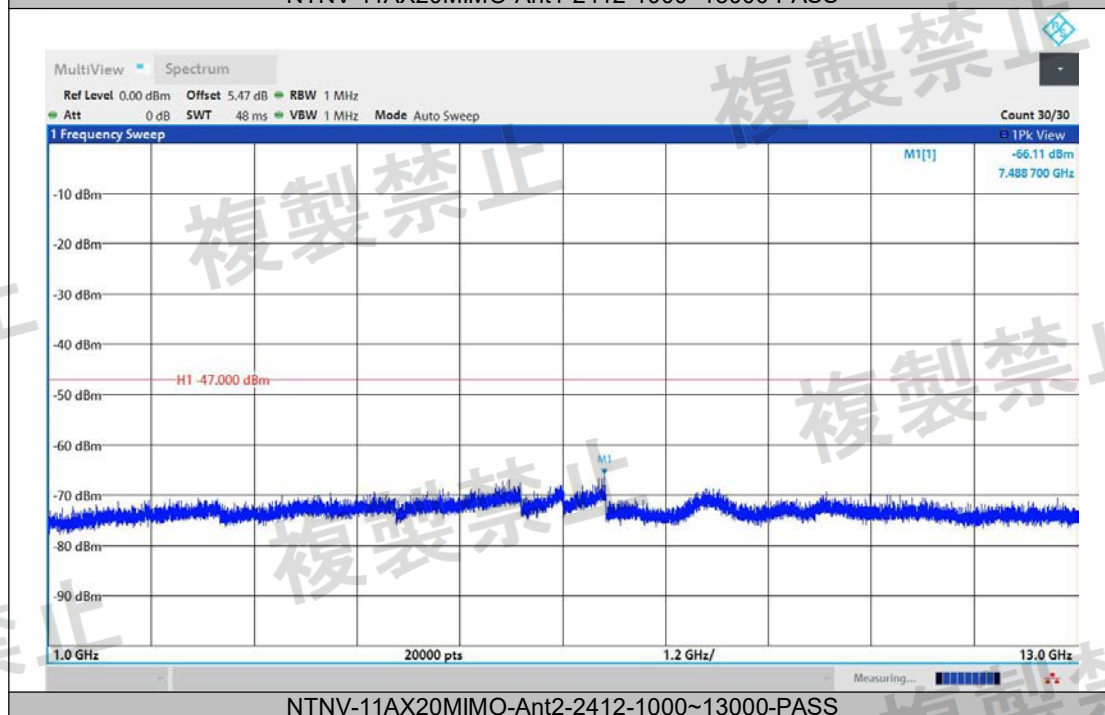


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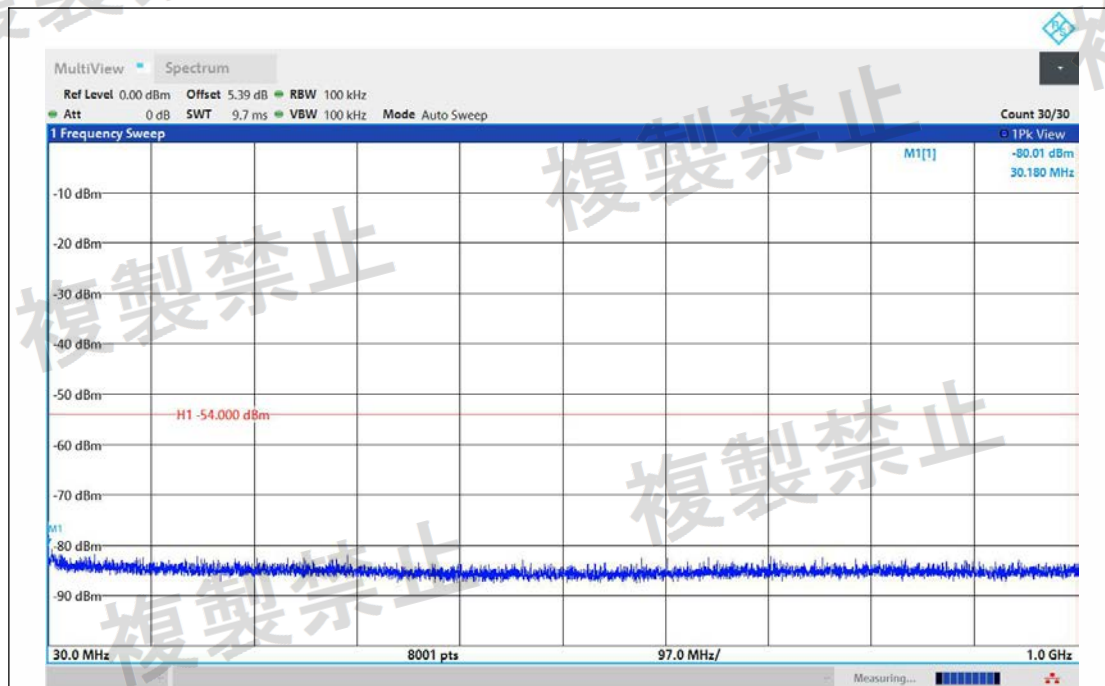




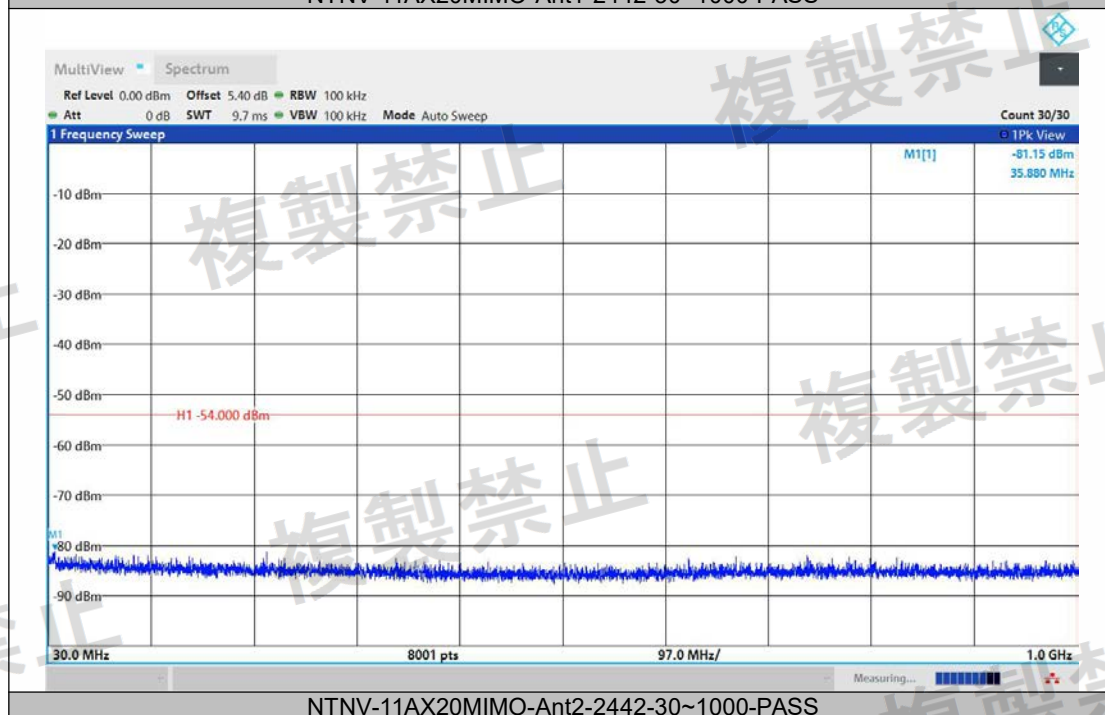
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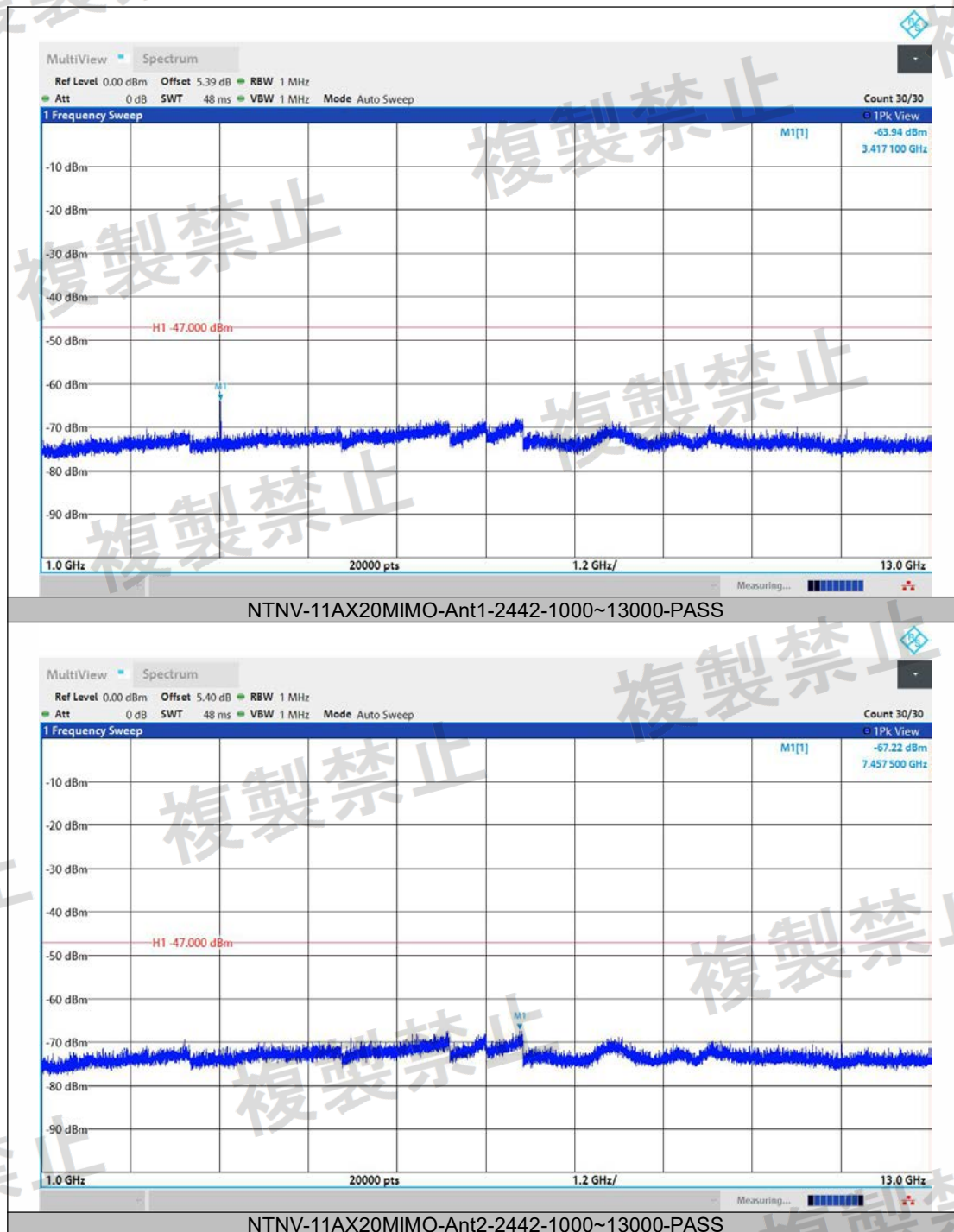
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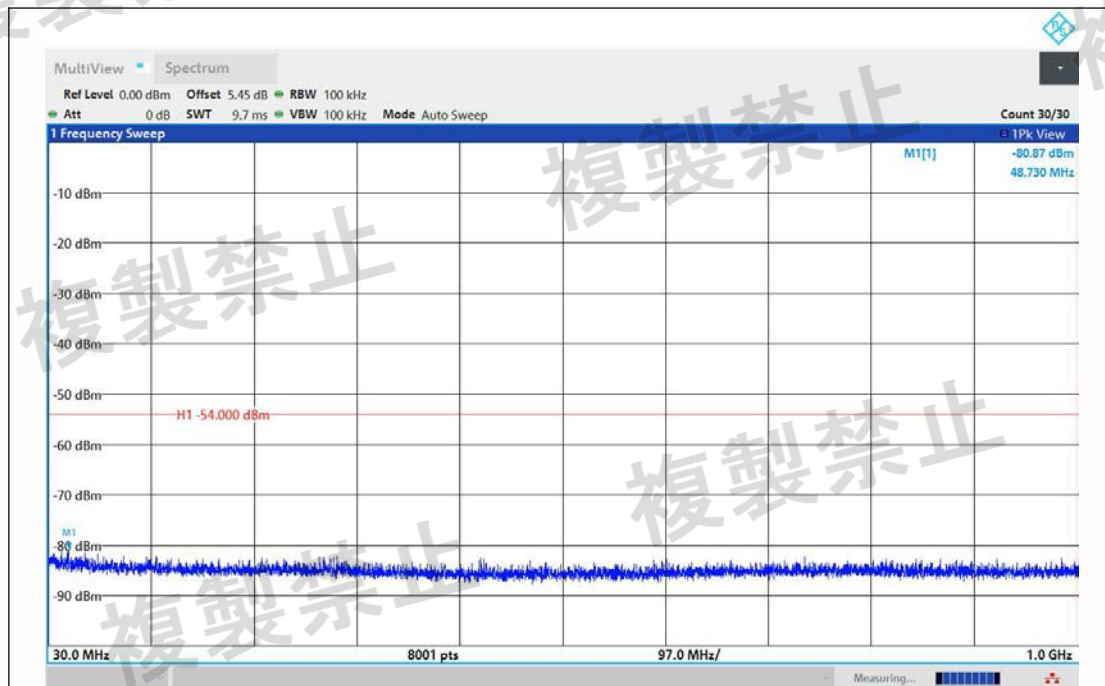


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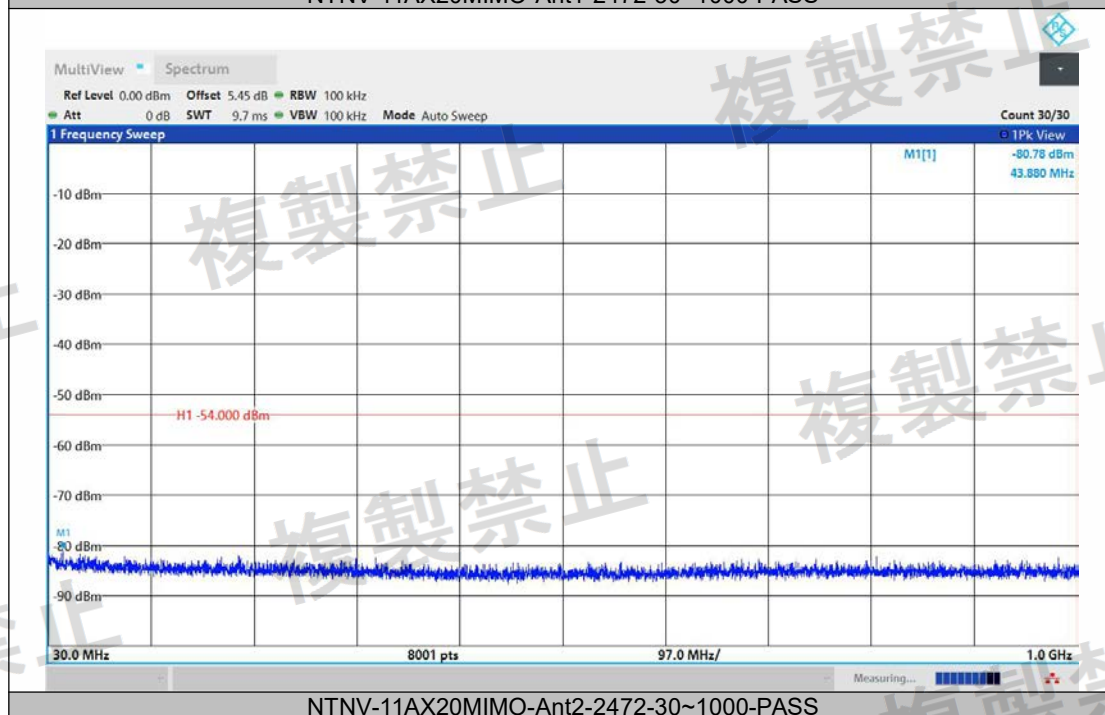


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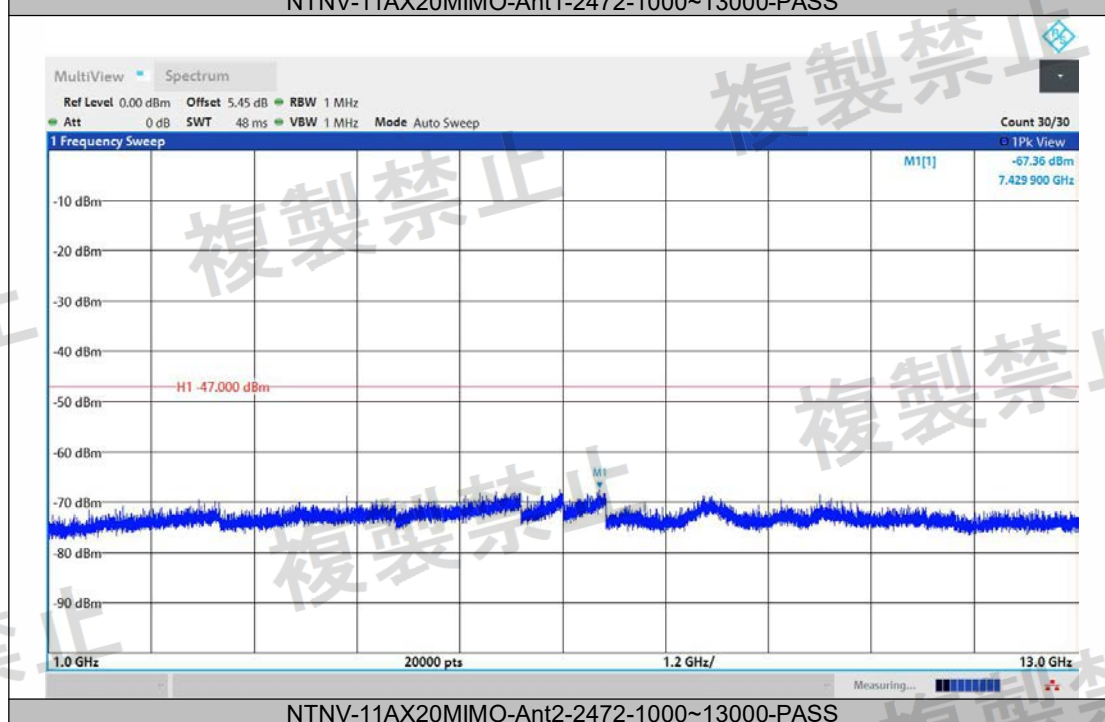
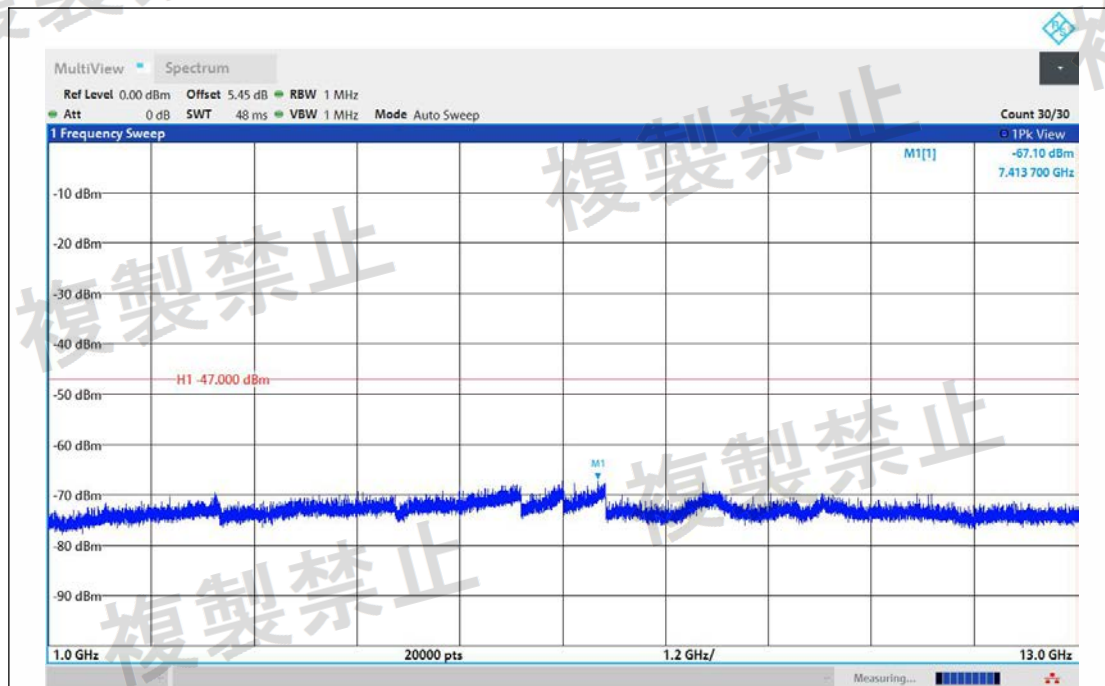


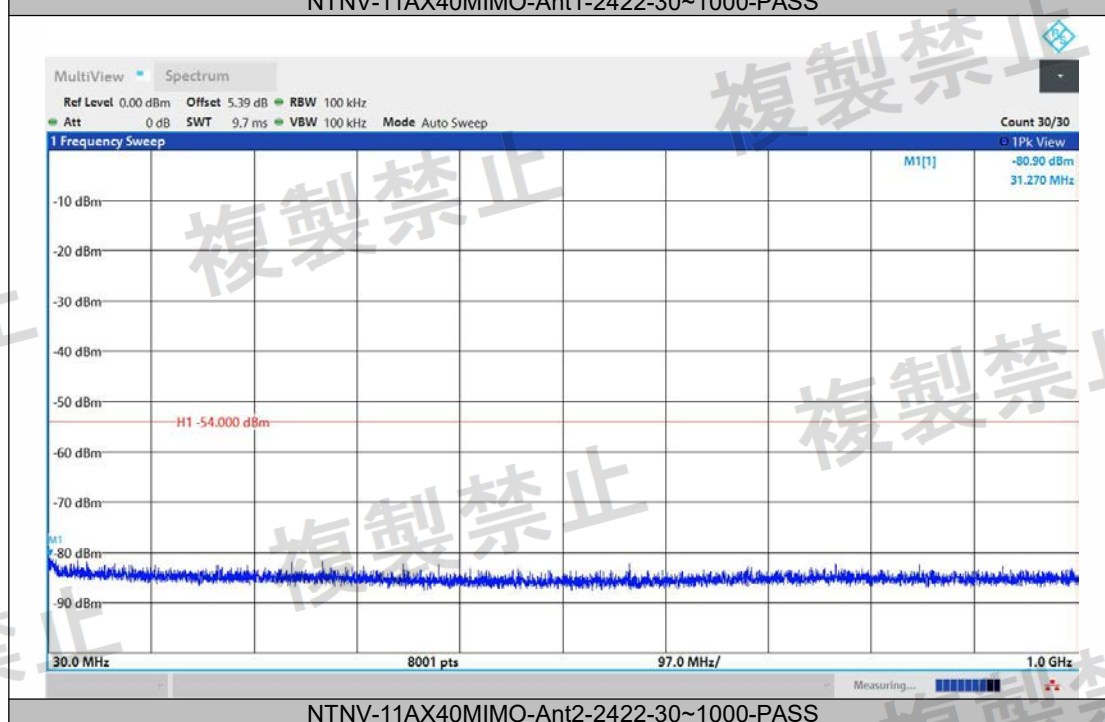
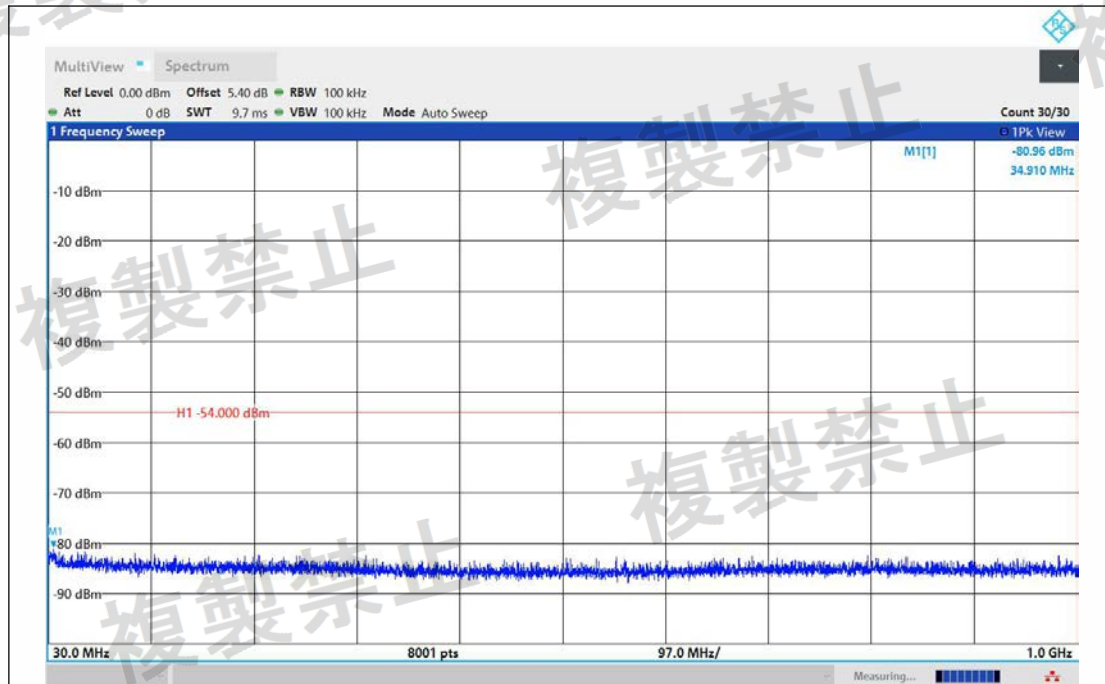


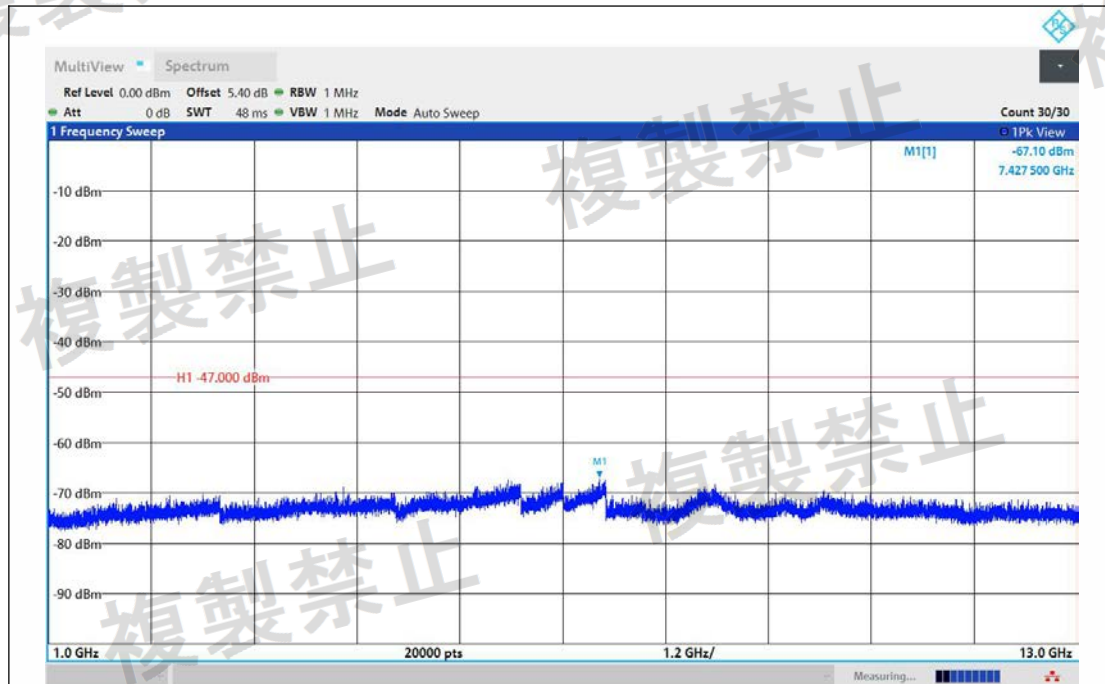
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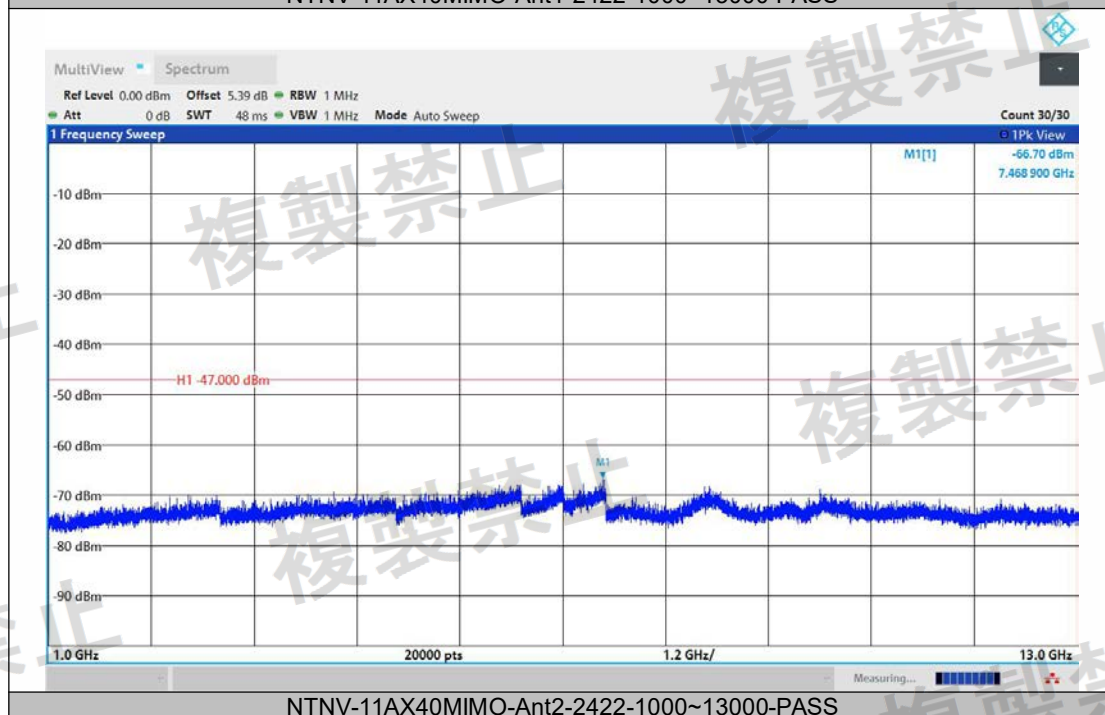
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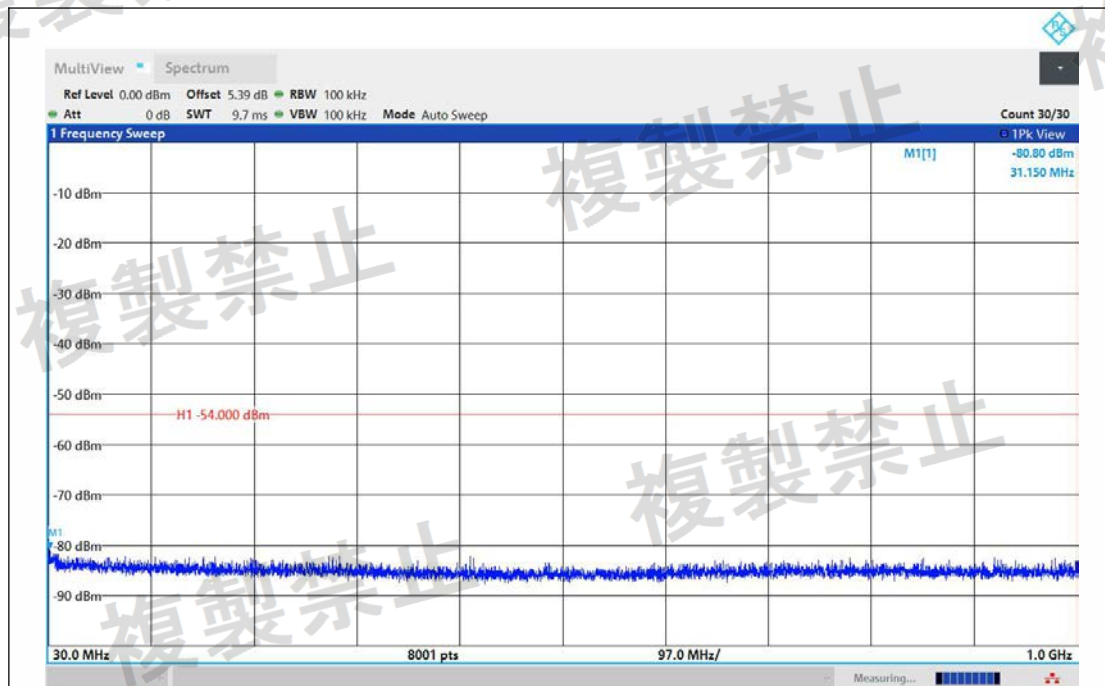




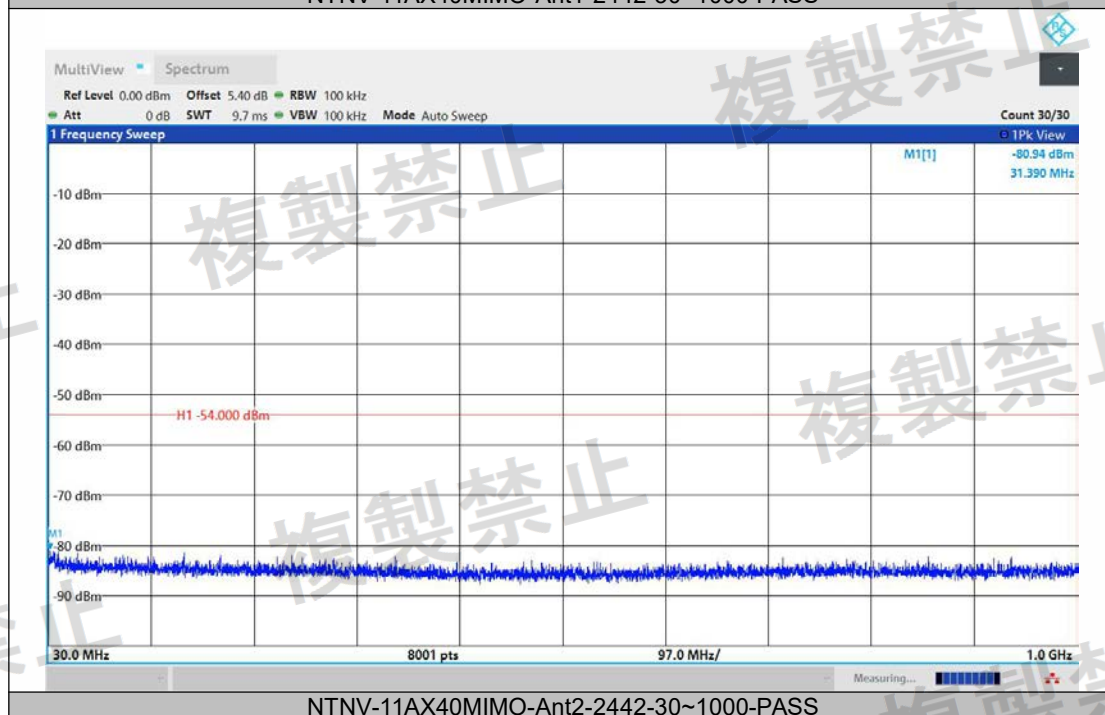
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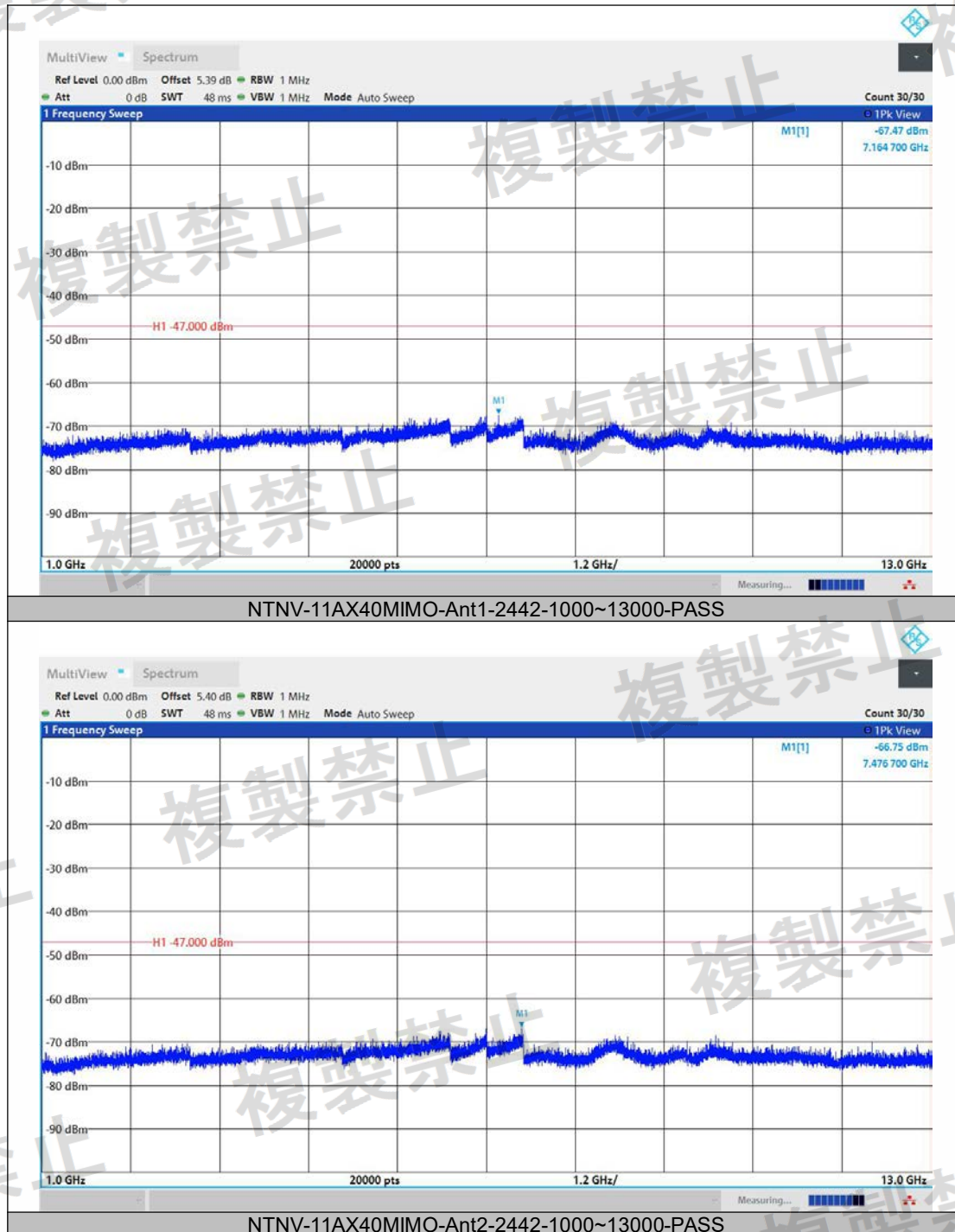
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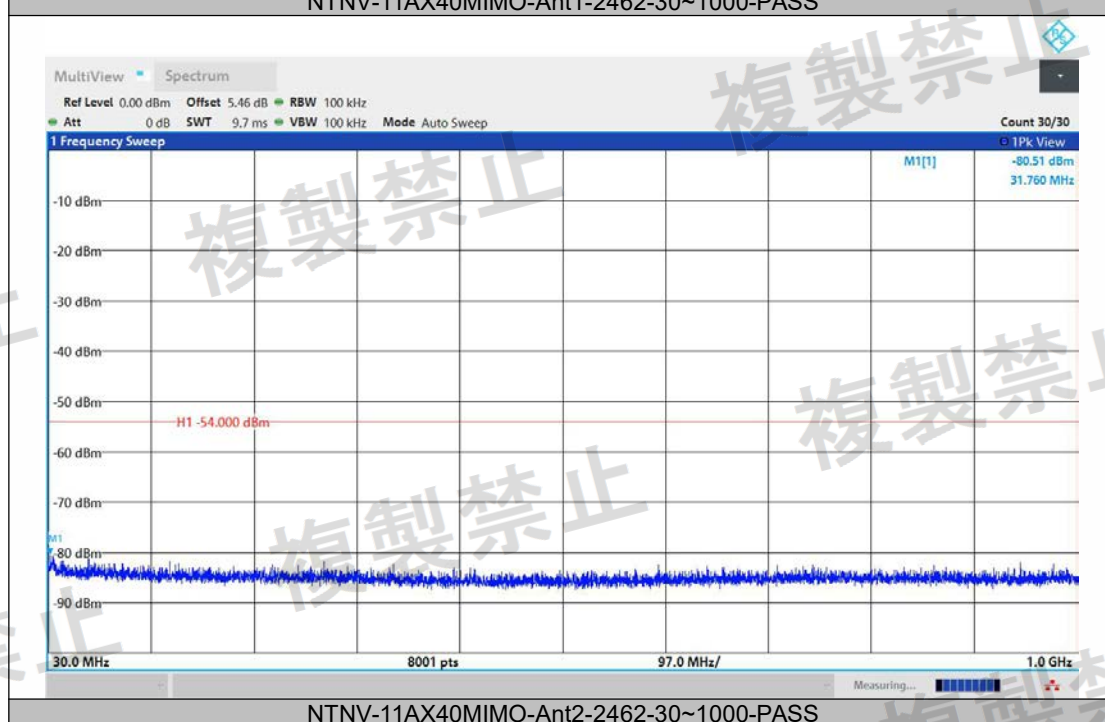
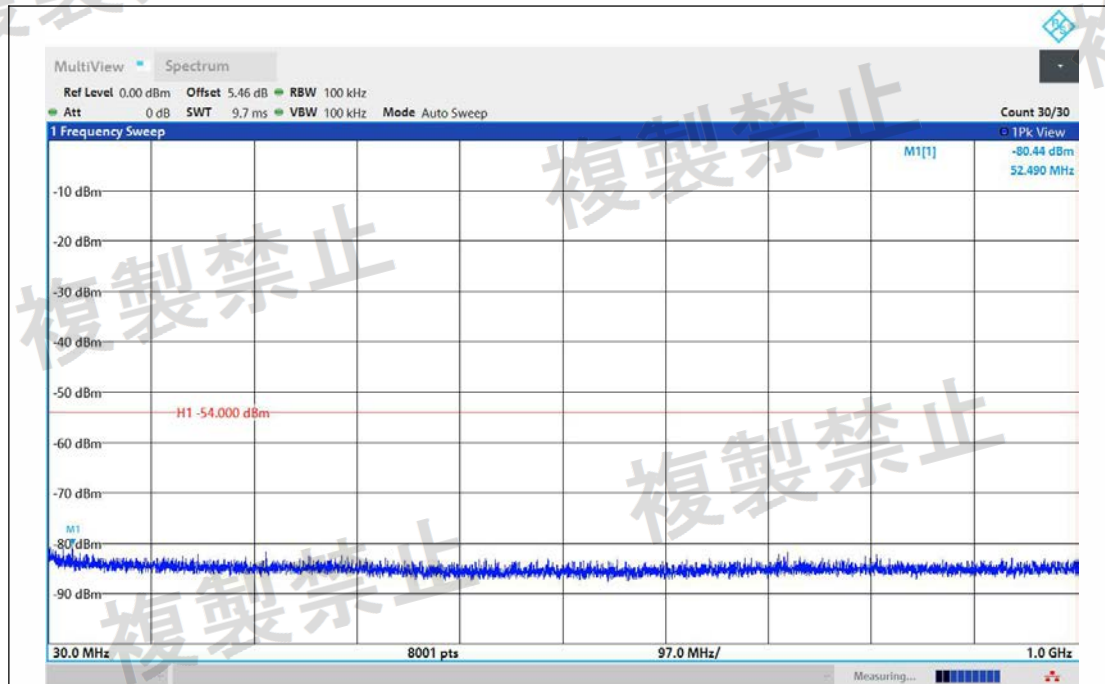


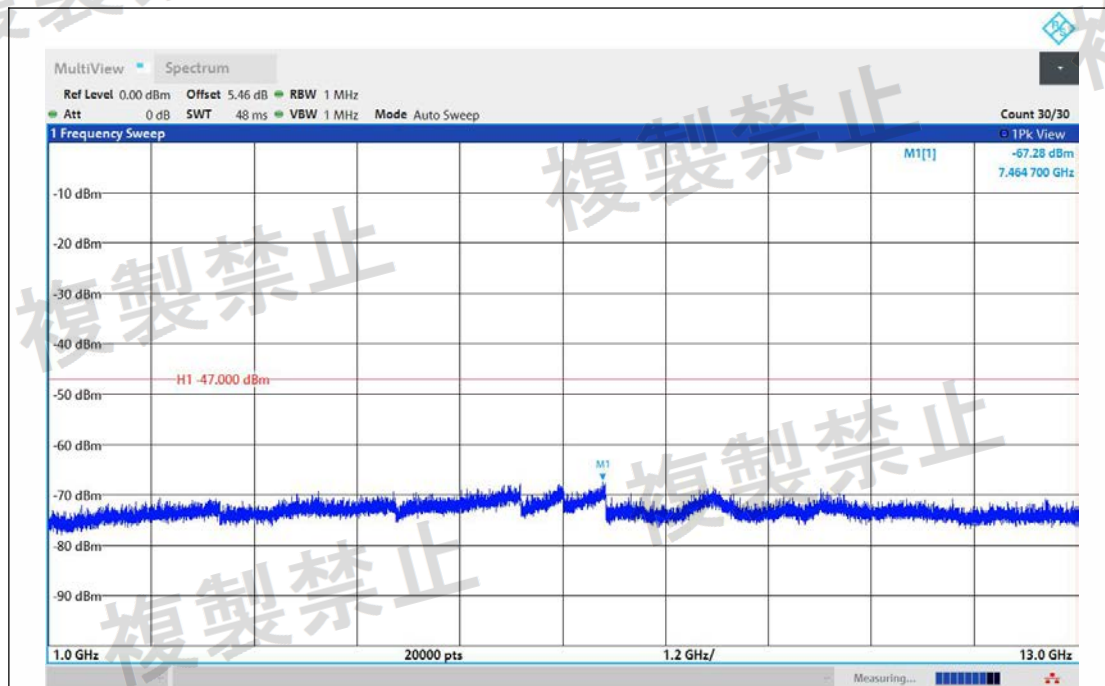
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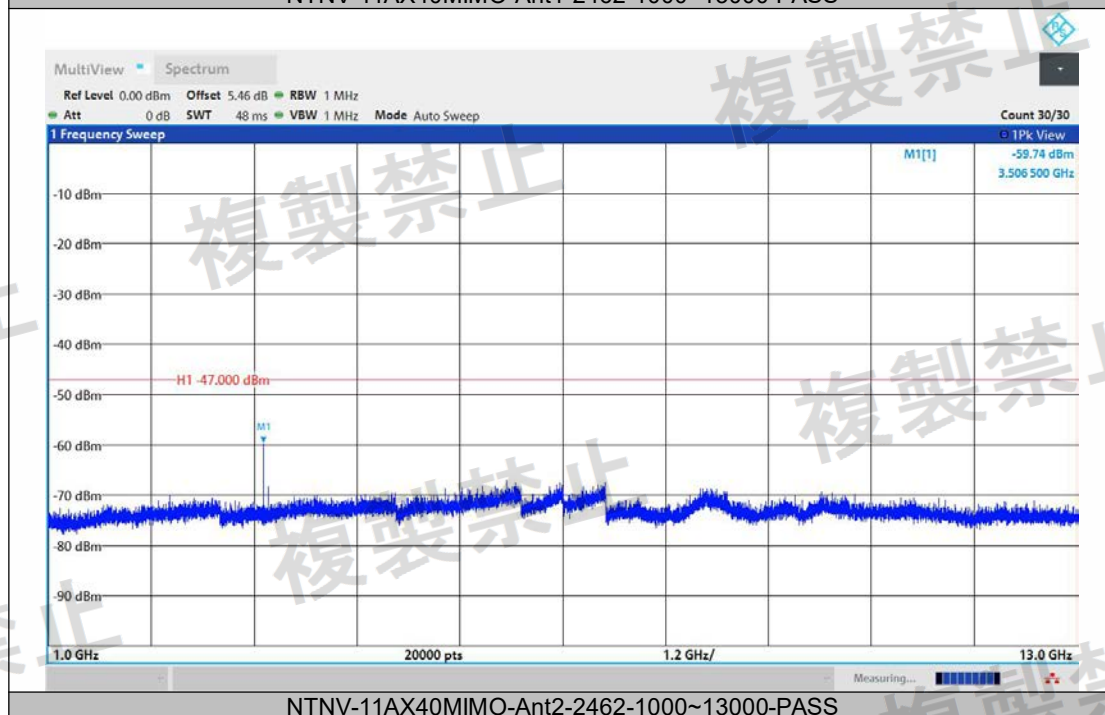
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NTNV-11AX40MIMO-Ant1-2462-1000~13000-PASS



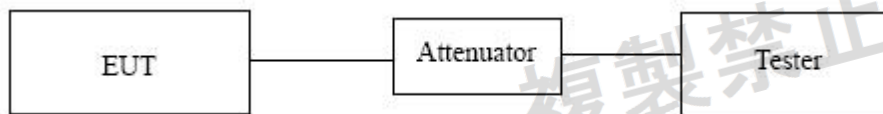
NTNV-11AX40MIMO-Ant2-2462-1000~13000-PASS

7.6 INTERFERENCE PREVENTION FUNCTION

7.6.1 Standard Applicable

According to Item 19 of Article 2 Paragraph 1. The device shall have the function of automatic transmission or reception of identification code.

7.6.2 Test Setup Block Diagram



7.6.3 Test Procedure

1. Set the EUT in the usual operation condition
2. The radio equipment with automatic transmitting function of identification code
 - A. Transmit the assigned identification code from the radio equipment.
 - B. Confirm the identification code received by the demodulator.
3. The radio equipment with automatic receiving function of identification code
 - A. Transmit the assigned identification code from the opposite equipment.
 - B. Confirm that the usual communication is available.
 - C. Transmit the identification code distinct from the assigned one from the opposite equipment.
 - D. Confirm that the radio equipment is stopped or an indication is displayed as the identification code is different.
4. The identification function shall be recorded with "Good" or "No".

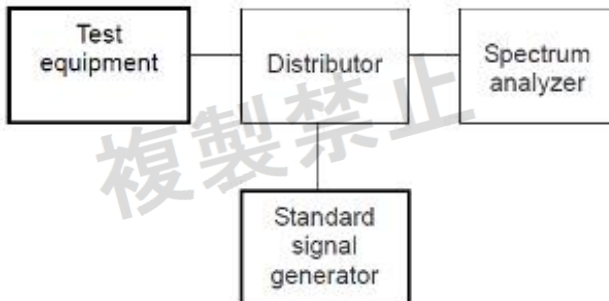
7.6.4 Summary of Test Results/Plots

Pass

Test Item	Test Result	Remark
Transmitting Function of Identification Code	Good	The device have the function of automatic transmission or reception of identification code
Receiving Function of Identification Code	Good	The device have the function of automatic transmission or reception of identification code

7.7 CARRIER SENSE CAPABILITY

7.7.1 Measurement system diagram



7.7.2 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.

7.7.3 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.

7.7.4 Measuring operation procedure

(1) Test with test equipment only:

A) Set the spectrum analyzer according to above (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.

7.7.5 Test result

The unit does meet the requirements (Good).

Test Condition	Test Mode	Antenna	Frequency[MHz]	Result
NTNV	11B	Ant1	2412	Pass
		Ant2	2412	Pass
		Ant1	2442	Pass
		Ant2	2442	Pass
		Ant1	2472	Pass
		Ant2	2472	Pass
	11G	Ant1	2412	Pass
		Ant2	2412	Pass
		Ant1	2442	Pass
		Ant2	2442	Pass
		Ant1	2472	Pass
		Ant2	2472	Pass
	11N20	Ant1	2412	Pass
		Ant2	2412	Pass
		Ant1	2442	Pass
		Ant2	2442	Pass
		Ant1	2472	Pass
		Ant2	2472	Pass
	11N40	Ant1	2422	Pass
		Ant2	2422	Pass
		Ant1	2442	Pass
		Ant2	2442	Pass
		Ant1	2462	Pass
		Ant2	2462	Pass
	11ax20	Ant1	2412	Pass
		Ant2	2412	Pass
		Ant1	2442	Pass
		Ant2	2442	Pass
		Ant1	2472	Pass
		Ant2	2472	Pass
	11ax40	Ant1	2422	Pass
		Ant2	2422	Pass
		Ant1	2442	Pass
		Ant2	2442	Pass
		Ant1	2462	Pass
		Ant2	2462	Pass

7.8 RF ACCESSIBILITY

Standard requirement

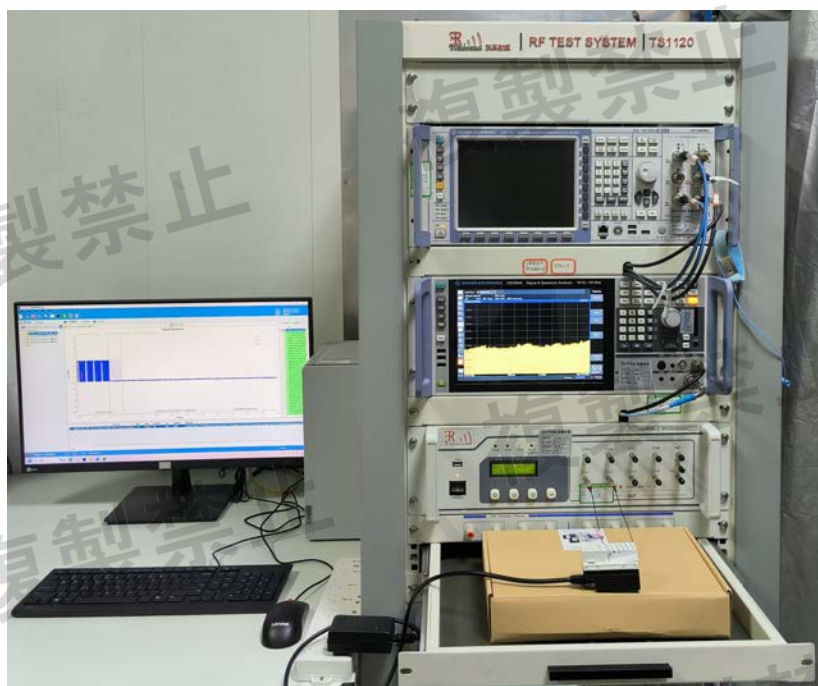
Article 49-20, paragraph 1 (a)

The EUT shall be constructed in such a way that sensitive RF parts, (like modulation and oscillator parts) cannot be reached easily by the user. These parts shall be covered by soldered metal caps or glue or by other mechanical covers. If the covers are fixed with screws, these shall be not the common type(s) like a Phillips, but special versions like Torx, so that the user cannot open the device with common tools.

☒	Sealed with special screws.
☐	Plastic chassis is being welded using ultrasonic waves.
☐	Chassis is glued using a special adhesive.
☐	Metal covers are spot-fused.
☐	Cover is specially interlocked.
☒	RF and Modulation components are covered with shielding case and this shielding case is soldered.
☐	Shield case is welded at RF and modulation parts, and ID-ROM is welded using the BGA Method.
☐	Shield case is welded at RF and modulation parts, and ID-ROM is glued at its lead with a special adhesive.
☐	Shield case is welded at RF and modulation parts, and ID-ROM is glued with anon-transparent laminating agent.
☐	RF and Modulation parts are mounted on PCB with surface mount technology, and there is no any adjustable parts on PCB or adjustable parts are not exposed.

Test result: Pass

8 APPENDIX PHOTOGRAPHS OF TEST SETUP



--- End of Report ---

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