

Japan - TEST REPORTReport Number : **68.950.21.0138.01** Date of Issue: **March 01, 2021**Model : **AirEngine5761-21**Product Type : **Wireless LAN Access Point**Applicant : **Huawei Technologies Co., Ltd.**Address : **Administration Building, Headquarters of Huawei Technologies
Co., Ltd., Bantian, Longgang District
518129 Shenzhen, PEOPLE'S REPUBLIC OF CHINA**Production Facility : **Huawei Technologies Co., Ltd.**Address : **Administration Building, Headquarters of Huawei Technologies
Co., Ltd., Bantian, Longgang District
518129 Shenzhen, PEOPLE'S REPUBLIC OF CHINA**Test Result : ☒ **Positive** ☐ **Negative**Total pages including
Appendices : **75**

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1 General Information

1.1 Notes

TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch is a subcontractor to TÜV SÜD Product Service GmbH according to the principles outlined in ISO 17025.

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Prepared by
Project Engineer

2021-03-01

Date

Mark Chen

Name

Signature



Approved by
Project Manager

2021-03-01

Date

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Signature

1.2 Testing Laboratory

Address of Test Laboratory:

Site 1 :

TÜV SÜD Certification and Testing (China) Co., Ltd. – Shenzhen Branch
Address: Building 12&13, Zhiheng Wisdomland Business Park,
Nantou Checkpoint Road 2, Nanshan District,
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1.3 Details of Applicant

Applicant: Huawei Technologies Co., Ltd.

Address: Administration Building, Headquarters of Huawei Technologies Co., Ltd., Bantian,
Longgang District, 518129 Shenzhen, PEOPLE'S REPUBLIC OF CHINA

Product Description: Wireless LAN Access Point

Manufacturers Model No.: AirEngine5761-21

1.4 Application Details

Date of receipt of order: January 15, 2021

Date of receipt of test item: January 15, 2021

Date of test: January 15, 2021-February 18, 2021

1.5 Test Item

Refer to table 1

1.6 Applied Standard

APPLIED PRODUCT STANDARD

ARIB STD-T66 Version 3.7/2014-10

1.7 Test Summary

Table 1. Summary of results

Conformance requirement according to ARIB STD-T66 Version 3.7/2014-10		Result	Test Site
Essential parameter	Corresponding technical requirements		
Transmitter requirements	3.2 (2) Antenna Power	PASS	Site 1
	3.2 (3) Tolerances for Antenna Power	PASS	Site 1
	3.2 (4) Frequency Tolerance	PASS	Site 1
	3.2 (5) Transmission Rate	PASS	Site 1
	3.2 (7) Occupied Frequency Bandwidth	PASS	Site 1
	3.2 (8) Spread Bandwidth	PASS	Site 1
	3.2 (9) Process Gain	PASS	Site 1
	3.2 (10) Number of Carriers	PASS	N/A*
	3.2 (11) Dwell Time	PASS	N/A*
	3.2 (6) Spurious Emissions	PASS	Site 1
Receiver requirements	3.5 (1) Secondary Radiated Emissions	PASS	Site 1
	3.4 (1) Interference prevention function	PASS	Site 1

NOTE 1: Measurement taken is within the measurement uncertainty of measurement system.

NOTE 2: "*" N/A is an abbreviation for Not Applicable.

2 Equipment Specification

2.1 General Description

AirEngine5761-21 is a Wireless LAN Access Point with Bluetooth LE, 2.4 GHz Wi-Fi, 5G Wi-Fi.

1. 2 antennas Transmit simultaneously, 2 antennas receive simultaneously for 2.4G Wi-Fi.
4 antennas Transmit simultaneously, 4 antennas receive simultaneously for 5G Wi-Fi.

This report is for 2.4GHz WIFI only.

2.2 Technical Data

Description	Wireless LAN Access Point
Model	AirEngine5761-21
Radio Specification	IEEE 802.11a/b/g/ac/ax Wave 2
Operation frequency	802.11b: 2412MHz-2472MHz 802.11g: 2412MHz-2472MHz 802.11n HT20, HT40: 2412MHz-2472MHz 802.11ax20, ax40: 2412MHz-2472MHz 802.11a 20MHz, 802.11n 20MHz, 802.11ac/ax 20MHz W52: 5180MHz - 5240MHz, W53: 5260MHz - 5320MHz, W56: 5500MHz - 5700MHz 802.11n 40MHz, 802.11ac/ax 40MHz W52: 5190MHz - 5230MHz, W53: 5270MHz - 5310MHz W56: 5510MHz - 5670MHz 802.11ac/ax 80MHz W52: 5210MHz, W53: 5290MHz, W56: 5530MHz-5610MHz 802.11ac/ax 160MHz W52, W53: 5250MHz, W56:5570MHz
WIFI Antenna type	Built-in dual-band combined antenna
BT Antenna type	Built-in antenna
Antenna gain	BLE: 4dBi Wi-Fi 2.4G: 2dBi Beamforming gain: 1dBi Wi-Fi 5G: 3dBi Beamforming gain: 1dBi
Smart Antenna System	MIMO, MIMO+Beamforming
Channel rate supported	802.11b: 1, 2, 5.5, and 11 Mbps 802.11a/g: 6, 9, 12, 18, 24, 36, 48, and 54 Mps 802.11n: up to 300 Mbps 802.11ax up to 574Mbps for 2.4G Wi-Fi 802.11ac up to 866.6Mbps for 5G Wi-Fi 802.11ax up to 1.2Gbps for 5G Wi-Fi
Rated Input	DC 12V from external AC Adapter DC -48V from PoE power supply
Modulation	DBPSK/DQPSK/CCK(DSSS)BPSK/QPSK/16QAM/64QAM/ 256QAM(OFDM)/1024QAM(OFDMA)/GFSK

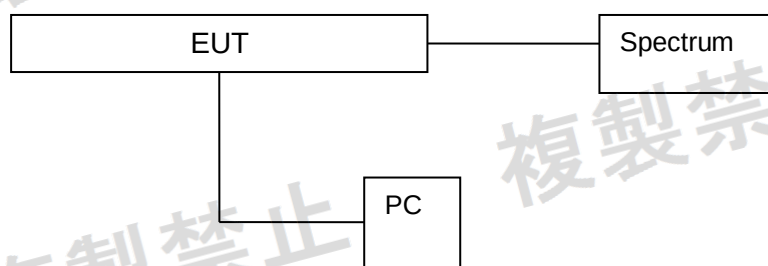
2.3 Test conditions and test Connections

2.3.1 Test Conditions

The EUT will be connected to test system in order to simulate normal operating conditions (with reference to the guidance given in the standard for this type of equipment).

The EUT is supplied by an external POE adapter, so $\pm 10\%$ of the rated voltage test is not required. All test items were performed at normal voltage.

2.3.2 Test Connections



Test Configuration

2.4 Auxiliary Equipment Used during Test

Table 3. Auxiliary Equipment Used during Test

Description	Manufacturer	Model no.	Serial no.	CAL. DUE DATE
PC	X240	LENOVO	---	---

2.5 Lists of Test Instruments

Table 4. Lists of Test Instruments

Description	Manufacturer	Model no.	Equipment ID	Serial no.	cal interval (year)	cal. due date
Signal Generator	Rohde & Schwarz	SMB100A	68-4-48-14-001	108272	1	2021-6-21
Vector Signal Generator	Rohde & Schwarz	SMBV100A	68-4-48-18-001	262825	1	2021-6-21
Communication Synthetical Test Instrument	Rohde & Schwarz	CMW 270	68-4-48-18-003	101251	1	2021-6-21
Signal Analyzer	Rohde & Schwarz	FSV40	68-4-74-14-004	101030	1	2021-6-21
Vector Signal Generator	Rohde & Schwarz	SMU 200A	68-4-48-14-003	105324	1	2021-6-22
RF Switch Module	Rohde & Schwarz	OSP120/OS P-B157	68-4-93-14-003	101226/100851	1	2021-6-21
Power Splitter	Weinschel	1580	68-4-85-14-001	SC319	1	2021-7-16
10dB Attenuator	Weinschel	4M-10	68-4-81-14-003	43152	1	2021-6-21
10dB Attenuator	R&S	DNF	68-4-81-14-004	DNF-001	1	2021-6-21
10dB Attenuator	R&S	DNF	68-4-81-14-005	DNF-002	1	2021-6-21
10dB Attenuator	R&S	DNF	68-4-81-14-006	DNF-003	1	2021-6-21
10dB Attenuator	R&S	DNF	68-4-81-14-007	DNF-004	1	2021-6-21
Test software	Rohde & Schwarz	EMC32	68-4-48-14-003-A10	Version 10.60.10	N/A	N/A
Test software	Tonscend	System for BT/WIFI	68-4-74-14-006-A13	Version 2.6.77.0518	N/A	N/A

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

Test Item	Uncertainty
Uncertainty for Conducted RF test	RF Power Conducted: 1.31dB Frequency test involved: 0.6×10^{-7} or 1%
Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.	

3 Measurements Result

3.1 Antenna Power

3.1.1 Test condition

Test position:	Transmitting
Ambient temperature:	23.1°C
Relative humidity:	51.3%
Atmosphere Pressure:	101.8KPa

3.1.2 Limit (ARIB STD-T66, Clause 3.2 (2)-a)

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

Note 1: The absolute gain of the transmitting antenna shall be 12.14dB or less. However, when the equivalent isotropic radiated power is equal to or less than the value obtained by applying an antenna power with the mean power of 10mW with its absolute gain being 12.14dB.

Note 2: The half-power beam width (angle between two points at which radiated power becomes 1/2) of the transmitting antenna's horizontal and vertical planes shall not exceed the value as determined by the following formula: $360 / A$ [degrees]. As the Antenna specification report, the value should be less than 90° , so the limit with beamforming of Max EIRP should be 18.14dBm.

3.1.3 Test result

2*2 TX &RX

11b

Antenna	Frequency (MHz)	Voltage (VDC)	Result Antenna Power (mW/MHz)	Limit Antenna Power (mW/MHz)	Result EIRP (dBm/MHz)	Limit EIRP (dBm/MHz)
Ant 1	2412	48VDC	5.398	10.00	7.988	12.14
Ant 2	2412	48VDC	4.089	10.00	10.944	12.14
Ant 1	2442	48VDC	5.451	10.00	8.298	12.14
Ant 2	2442	48VDC	4.644	10.00	11.188	12.14
Ant 1	2472	48VDC	5.660	10.00	8.155	12.14
Ant 2	2472	48VDC	3.942	10.00	10.844	12.14
Conclusion: PASS						

2*2 TX &RX

11g

Antenna	Frequency (MHz)	Voltage (VDC)	Result Antenna Power (mW/MHz)	Limit Antenna Power (mW/MHz)	Result EIRP (dBm/MHz)	Limit EIRP (dBm/MHz)
Ant 1	2412	48VDC	2.525	10.00	6.02	12.14
Ant 2	2412	48VDC	5.019	10.00	9.01	12.14
Ant 1	2442	48VDC	2.837	10.00	6.53	12.14
Ant 2	2442	48VDC	5.397	10.00	9.32	12.14
Ant 1	2472	48VDC	2.662	10.00	6.25	12.14
Ant 2	2472	48VDC	5.426	10.00	9.34	12.14
Conclusion: PASS						

2*2 MIMO

11nHT20

Antenna	Frequency (MHz)	Voltage (VDC)	Result Antenna Power (mW/MHz)	Limit Antenna Power (mW/MHz)	Result EIRP (dBm/MHz)	Limit EIRP (dBm/MHz)
Ant 1	2412	48VDC	1.397	10.00	3.45	12.14
Ant 2	2412	48VDC	2.862	10.00	6.57	12.14
Total	2412	48VDC	4.26	10.00	8.29	12.14
Ant 1	2442	48VDC	1.550	10.00	3.90	12.14
Ant 2	2442	48VDC	3.015	10.00	6.79	12.14
Total	2442	48VDC	4.57	10.00	8.60	12.14
Ant 1	2472	48VDC	1.480	10.00	3.70	12.14
Ant 2	2472	48VDC	2.968	10.00	6.72	12.14
Total	2472	48VDC	4.45	10.00	8.48	12.14
Conclusion: PASS						

2*2 MIMO

11nHT40

Antenna	Frequency (MHz)	Voltage (VDC)	Result Antenna Power (mW/MHz)	Limit Antenna Power (mW/MHz)	Result EIRP (dBm/MHz)	Limit EIRP (dBm/MHz)
Ant 1	2422	48VDC	1.763	10.00	4.46	12.14
Ant 2	2422	48VDC	3.501	10.00	7.44	12.14
Total	2422	48VDC	5.26	10.00	9.21	12.14
Ant 1	2442	48VDC	1.423	10.00	3.53	12.14
Ant 2	2442	48VDC	2.904	10.00	6.63	12.14
Total	2442	48VDC	4.33	10.00	8.36	12.14
Ant 1	2462	48VDC	1.426	10.00	3.54	12.14
Ant 2	2462	48VDC	2.765	10.00	6.42	12.14
Total	2462	48VDC	4.19	10.00	8.22	12.14
Conclusion: PASS						

11ax20

Antenna	Frequency (MHz)	Voltage (VDC)	Result Antenna Power (mW/MHz)	Limit Antenna Power (mW/MHz)	Result EIRP (dBm/MHz)	Limit EIRP (dBm/MHz)
Ant 1	2412	48VDC	1.053	10.00	2.22	12.14
Ant 2	2412	48VDC	1.985	10.00	4.98	12.14
Total	2412	48VDC	3.04	10.00	6.83	12.14
Ant 1	2442	48VDC	1.097	10.00	2.40	12.14
Ant 2	2442	48VDC	2.093	10.00	5.21	12.14
Total	2442	48VDC	3.19	10.00	7.04	12.14
Ant 1	2472	48VDC	1.075	10.00	2.31	12.14
Ant 2	2472	48VDC	2.017	10.00	5.05	12.14
Total	2472	48VDC	3.09	10.00	6.90	12.14
Conclusion: PASS						

2*2 MIMO

11ax40

Antenna	Frequency (MHz)	Voltage (VDC)	Result Antenna Power (mW/MHz)	Limit Antenna Power (mW/MHz)	Result EIRP (dBm/MHz)	Limit EIRP (dBm/MHz)
Ant 1	2422	48VDC	0.926	10.00	1.67	12.14
Ant 2	2422	48VDC	1.907	10.00	4.80	12.14
Total	2422	48VDC	2.83	10.00	6.52	12.14
Ant 1	2442	48VDC	0.995	10.00	1.98	12.14
Ant 2	2442	48VDC	1.918	10.00	4.83	12.14
Total	2442	48VDC	2.91	10.00	6.64	12.14
Ant 1	2462	48VDC	0.932	10.00	1.69	12.14
Ant 2	2462	48VDC	1.894	10.00	4.77	12.14
Total	2462	48VDC	2.83	10.00	6.52	12.14
Conclusion: PASS						

2*2 MIMO Beamforming

11nHT20

Antenna	Frequency (MHz)	Voltage (VDC)	Result Antenna Power (mW/MHz)	Limit Antenna Power (mW/MHz)	Result EIRP (dBm/MHz)	Limit EIRP (dBm/MHz)
Ant 1	2412	48VDC	1.397	10.00	4.45	22.14
Ant 2	2412	48VDC	2.862	10.00	7.57	22.14
Total	2412	48VDC	4.26	10.00	9.29	22.14
Ant 1	2442	48VDC	1.550	10.00	4.90	22.14
Ant 2	2442	48VDC	3.015	10.00	7.79	22.14
Total	2442	48VDC	4.57	10.00	9.60	22.14
Ant 1	2472	48VDC	1.480	10.00	4.70	22.14
Ant 2	2472	48VDC	2.968	10.00	7.72	22.14
Total	2472	48VDC	4.45	10.00	9.48	22.14
Conclusion: PASS						

2*2 MIMO**11nHT40**

Antenna	Frequency (MHz)	Voltage (VDC)	Result Antenna Power (mW/MHz)	Limit Antenna Power (mW/MHz)	Result EIRP (dBm/MHz)	Limit EIRP (dBm/MHz)
Ant 1	2422	48VDC	1.763	10.00	5.46	22.14
Ant 2	2422	48VDC	3.501	10.00	8.44	22.14
Total	2422	48VDC	5.26	10.00	10.21	22.14
Ant 1	2442	48VDC	1.423	10.00	4.53	22.14
Ant 2	2442	48VDC	2.904	10.00	7.63	22.14
Total	2442	48VDC	4.33	10.00	9.36	22.14
Ant 1	2462	48VDC	1.426	10.00	4.54	22.14
Ant 2	2462	48VDC	2.765	10.00	7.42	22.14
Total	2462	48VDC	4.19	10.00	9.22	22.14
Conclusion: PASS						

11ax20

Antenna	Frequency (MHz)	Voltage (VDC)	Result Antenna Power (mW/MHz)	Limit Antenna Power (mW/MHz)	Result EIRP (dBm/MHz)	Limit EIRP (dBm/MHz)
Ant 1	2412	48VDC	1.053	10.00	3.22	22.14
Ant 2	2412	48VDC	1.985	10.00	5.98	22.14
Total	2412	48VDC	3.04	10.00	7.83	22.14
Ant 1	2442	48VDC	1.097	10.00	3.40	22.14
Ant 2	2442	48VDC	2.093	10.00	6.21	22.14
Total	2442	48VDC	3.19	10.00	8.04	22.14
Ant 1	2472	48VDC	1.075	10.00	3.31	22.14
Ant 2	2472	48VDC	2.017	10.00	6.05	22.14
Total	2472	48VDC	3.09	10.00	7.90	22.14
Conclusion: PASS						

2*2 MIMO**11ax40**

Antenna	Frequency (MHz)	Voltage (VDC)	Result Antenna Power (mW/MHz)	Limit Antenna Power (mW/MHz)	Result EIRP (dBm/MHz)	Limit EIRP (dBm/MHz)
Ant 1	2422	48VDC	0.926	10.00	2.67	22.14
Ant 2	2422	48VDC	1.907	10.00	5.80	22.14
Total	2422	48VDC	2.83	10.00	7.52	22.14
Ant 1	2442	48VDC	0.995	10.00	2.98	22.14
Ant 2	2442	48VDC	1.918	10.00	5.83	22.14
Total	2442	48VDC	2.91	10.00	7.64	22.14
Ant 1	2462	48VDC	0.932	10.00	2.69	22.14
Ant 2	2462	48VDC	1.894	10.00	5.77	22.14
Total	2462	48VDC	2.83	10.00	7.52	22.14
Conclusion: PASS						

3.1.4 Result

The equipment met the requirement of this clause.

3.2 Tolerances for Antenna Power

3.2.1 Test condition

Test position:	Transmitting
Ambient temperature:	23.1°C
Relative humidity:	51.3%
Atmosphere Pressure:	101.8KPa

3.2.2 Limit (ARIB STD-T66, Clause 3.2 (3))

Upper and lower limits of the tolerance for antenna power shall be 20% and 80%, respectively. Note that they represent the tolerance for the maximum rated antenna power and that no upper and lower limits of the tolerance are regulated in the case of antenna power reduction for communications reasons.

3.2.3 Test result

11b

Antenna	Frequency (MHz)	Voltage (VDC)	Declared Output Power (mW/MHz)	Result (mW/MHz)	Tolerances (%)	Limit (%)
Ant 1	2412	48VDC	6	5.398	-10.03	+20%~-80%
Ant 2	2412	48VDC	6	4.089	-31.85	+20%~-80%
Ant 1	2442	48VDC	6	5.451	-9.15	+20%~-80%
Ant 2	2442	48VDC	6	4.644	-22.60	+20%~-80%
Ant 1	2472	48VDC	6	5.660	-5.67	+20%~-80%
Ant 2	2472	48VDC	6	3.942	-34.30	+20%~-80%
Conclusion: PASS						

11g

Antenna	Frequency (MHz)	Voltage (VDC)	Declared Output Power (mW/MHz)	Result (mW/MHz)	Tolerances (%)	Limit (%)
Ant 1	2412	48VDC	5	2.525	-49.50	+20%~-80%
Ant 2	2412	48VDC	5	5.019	0.38	+20%~-80%
Ant 1	2442	48VDC	5	2.837	-43.26	+20%~-80%
Ant 2	2442	48VDC	5	5.397	7.94	+20%~-80%
Ant 1	2472	48VDC	5	2.662	-46.76	+20%~-80%
Ant 2	2472	48VDC	5	5.426	8.52	+20%~-80%
Conclusion: PASS						

11nHT20 MIMO

Antenna	Frequency (MHz)	Voltage (VDC)	Declared Output Power (mW/MHz)	Result (mW/MHz)	Tolerances (%)	Limit (%)
Ant 1	2412	48VDC	3	1.397	-53.43	+20%~-80%
Ant 2	2412	48VDC	3	2.862	-4.60	+20%~-80%
Total	2412	48VDC	6	4.26	-29.00	+20%~-80%
Ant 1	2442	48VDC	3	1.550	-48.33	+20%~-80%
Ant 2	2442	48VDC	3	3.015	0.50	+20%~-80%
Total	2442	48VDC	6	4.57	-23.83	+20%~-80%
Ant 1	2472	48VDC	3	1.480	-50.67	+20%~-80%
Ant 2	2472	48VDC	3	2.968	-1.07	+20%~-80%

Total	2472	48VDC	6	4.45	-25.83	+20%~-80%
Conclusion: PASS						

11nHT40 MIMO

Antenna	Frequency (MHz)	Voltage (VDC)	Declared Output Power (mW/MHz)	Result (mW/MHz)	Tolerances (%)	Limit (%)
Ant 1	2422	48VDC	3	1.763	-41.23	+20%~-80%
Ant 2	2422	48VDC	3	3.501	16.70	+20%~-80%
Total	2422	48VDC	6	5.26	-12.33	+20%~-80%
Ant 1	2442	48VDC	3	1.423	-52.57	+20%~-80%
Ant 2	2442	48VDC	3	2.904	-3.20	+20%~-80%
Total	2442	48VDC	6	4.33	-27.83	+20%~-80%
Ant 1	2462	48VDC	3	1.426	-52.47	+20%~-80%
Ant 2	2462	48VDC	3	2.765	-7.83	+20%~-80%
Total	2462	48VDC	6	4.19	-30.17	+20%~-80%

Conclusion: PASS

11ax20 MIMO

Antenna	Frequency (MHz)	Voltage (VDC)	Declared Output Power (mW/MHz)	Result (mW/MHz)	Tolerances (%)	Limit (%)
Ant 1	2412	48VDC	2	1.053	-47.35	+20%~-80%
Ant 2	2412	48VDC	2	1.985	-0.75	+20%~-80%
Total	2412	48VDC	4	3.04	-24.00	+20%~-80%
Ant 1	2442	48VDC	2	1.097	-45.15	+20%~-80%
Ant 2	2442	48VDC	2	2.093	4.65	+20%~-80%
Total	2442	48VDC	4	3.19	-20.25	+20%~-80%
Ant 1	2472	48VDC	2	1.075	-46.25	+20%~-80%
Ant 2	2472	48VDC	2	2.017	0.85	+20%~-80%
Total	2472	48VDC	4	3.09	-22.75	+20%~-80%

Conclusion: PASS

11ax40 MIMO

Antenna	Frequency (MHz)	Voltage (VDC)	Declared Output Power (mW/MHz)	Result (mW/MHz)	Tolerances (%)	Limit (%)
Ant 1	2422	48VDC	2	0.926	-53.70	+20%~-80%
Ant 2	2422	48VDC	2	1.907	-4.65	+20%~-80%
Total	2422	48VDC	4	2.83	-29.25	+20%~-80%
Ant 1	2442	48VDC	2	0.995	-50.25	+20%~-80%
Ant 2	2442	48VDC	2	1.918	-4.10	+20%~-80%
Total	2442	48VDC	4	2.91	-27.25	+20%~-80%
Ant 1	2462	48VDC	2	0.932	-53.40	+20%~-80%
Ant 2	2462	48VDC	2	1.894	-5.30	+20%~-80%
Total	2462	48VDC	4	2.83	-29.25	+20%~-80%

Conclusion: PASS

Note: Deviation = (Output power – Declared Output Power) / Declared Output Power * 100%

3.2.4 Result

The equipment met the requirement of this clause.

3.3 Frequency Tolerance

3.3.1 Test condition

Test position:	Transmitting
Ambient temperature:	23.1°C
Relative humidity:	51.3%
Atmosphere Pressure:	101.8KPa

3.3.2 Limit (ARIB STD-T66, Clause 3.2 (4))

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

3.3.3 Test Result

Test Frequency (MHz)	Voltage (VDC)	Result (MHz)	Tolerance (kHz)	Tolerance (ppm)	Limit (ppm)
2412	48VDC	2411.995	5	-2.07297	± 50
2422	48VDC	2421.995	5	-2.04750	± 50
2442	48VDC	2441.995	5	-2.02265	± 50
2462	48VDC	2461.995	5	-2.06441	± 50
2472	48VDC	2471.995	5	-2.03087	± 50
Conclusion: PASS					

3.3.4 Result

The equipment met the requirement of this clause.

3.4 Occupied Frequency Bandwidth

3.4.1 Test condition

Test position:	Transmitting
Ambient temperature:	23.1°C
Relative humidity:	51.3%
Atmosphere Pressure:	101.8KPa

3.4.2 Limit (ARIB STD-T66, Clause 3.2 (7))

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

3.4.3 Test Result

11b

Test Frequency (MHz)	Voltage (VDC)	Result (MHz)	Limit (MHz)
2412	48VDC	12.827	<26MHz
2442	48VDC	12.907	<26MHz
2472	48VDC	13.027	<26MHz

11g

Test Frequency (MHz)	Voltage (VDC)	Result (MHz)	Limit (MHz)
2412	48VDC	16.384	<26MHz
2442	48VDC	16.384	<26MHz
2472	48VDC	16.424	<26MHz

11nHT20

Test Frequency (MHz)	Voltage (VDC)	Result (MHz)	Limit (MHz)
2412	48VDC	17.582	<26MHz
2442	48VDC	17.582	<26MHz
2472	48VDC	17.582	<26MHz

11nHT40

Test Frequency (MHz)	Voltage (VDC)	Result (MHz)	Limit (MHz)
2422	48VDC	35.964	<38MHz
2442	48VDC	36.044	<38MHz
2462	48VDC	36.044	<38MHz

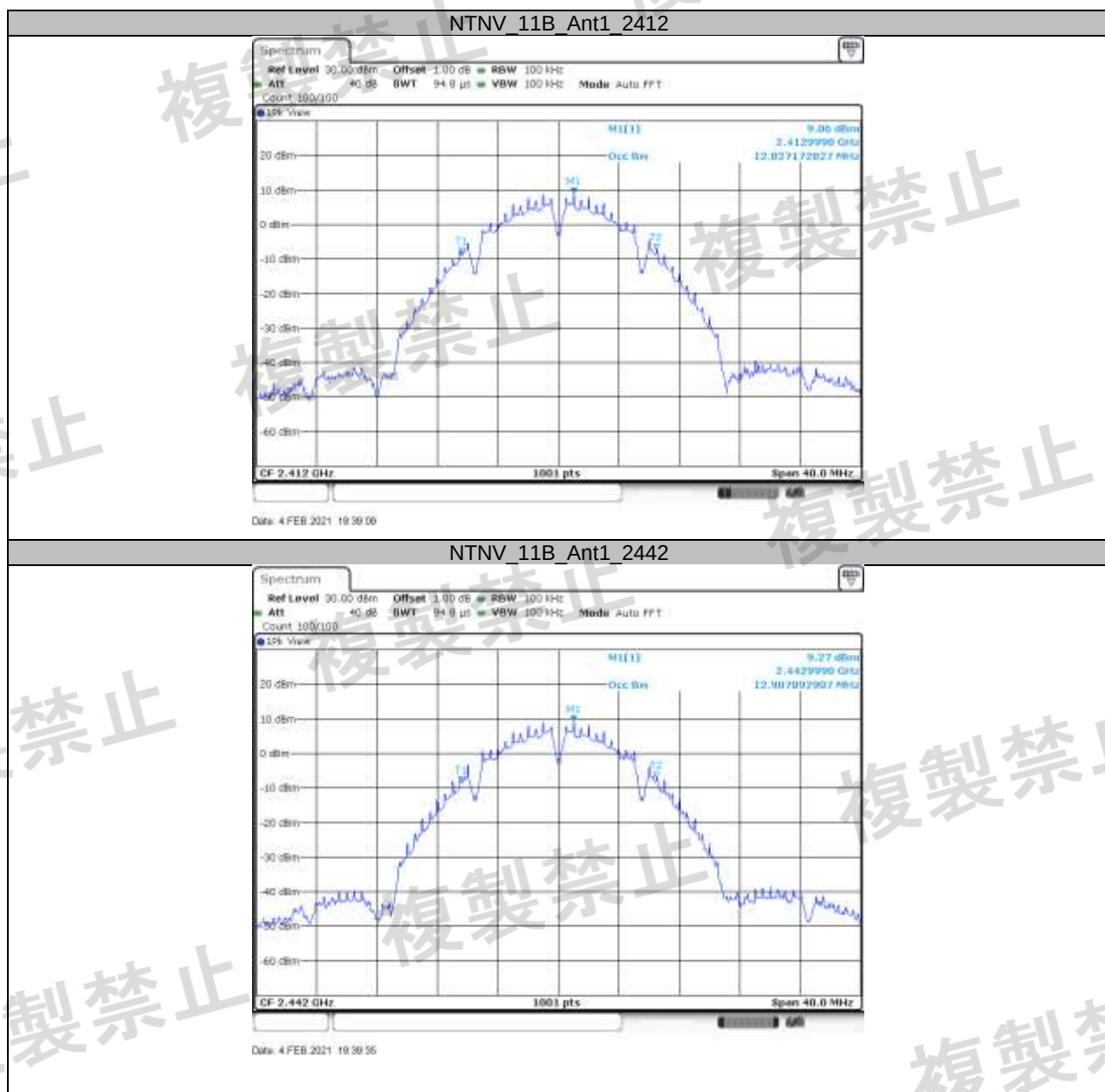
11ax20

Test Frequency (MHz)	Voltage (VDC)	Result (MHz)	Limit (MHz)
2412	48VDC	18.901	<26MHz
2442	48VDC	18.941	<26MHz
2472	48VDC	18.861	<26MHz

11ax40

Test Frequency (MHz)	Voltage (VDC)	Result (MHz)	Limit (MHz)
2422	48VDC	37.722	<38MHz
2442	48VDC	37.722	<38MHz
2462	48VDC	37.722	<38MHz

Test Graphs

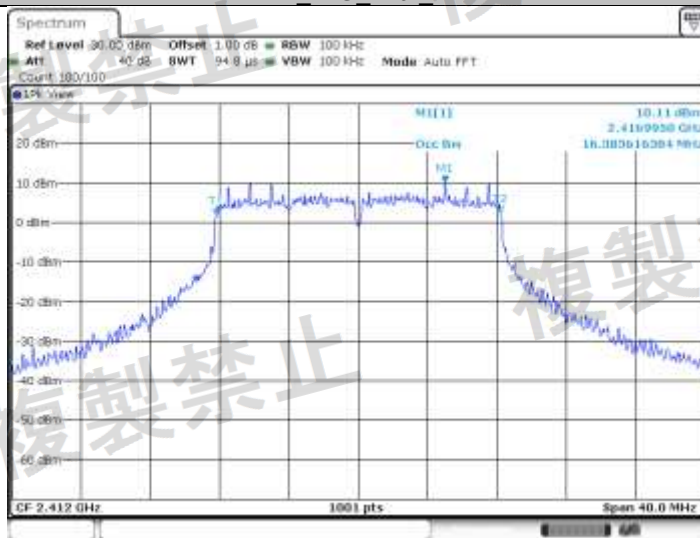


NTNV 11B Ant1 2472



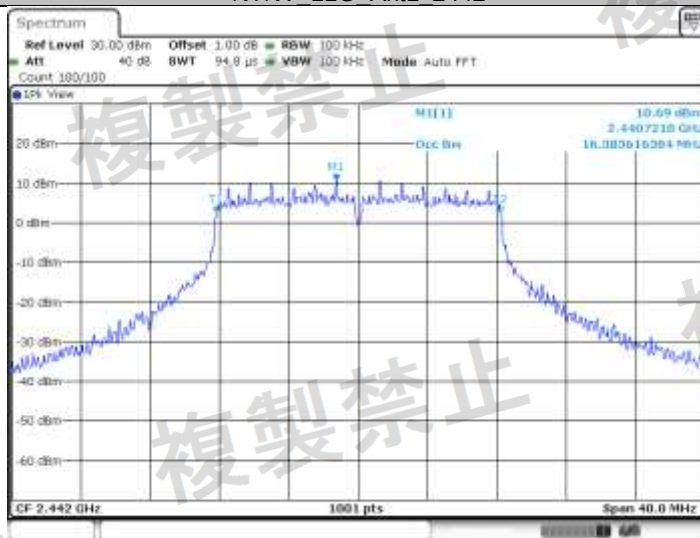
Date: 4 FEB 2021 19:40:55

NTNV 11G Ant1 2412



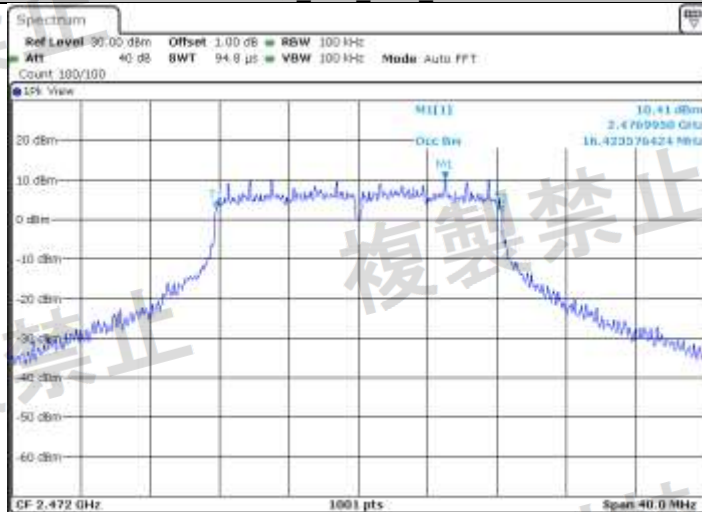
Date: 4 FEB 2021 19:42:19

NTNV 11G Ant1 2442



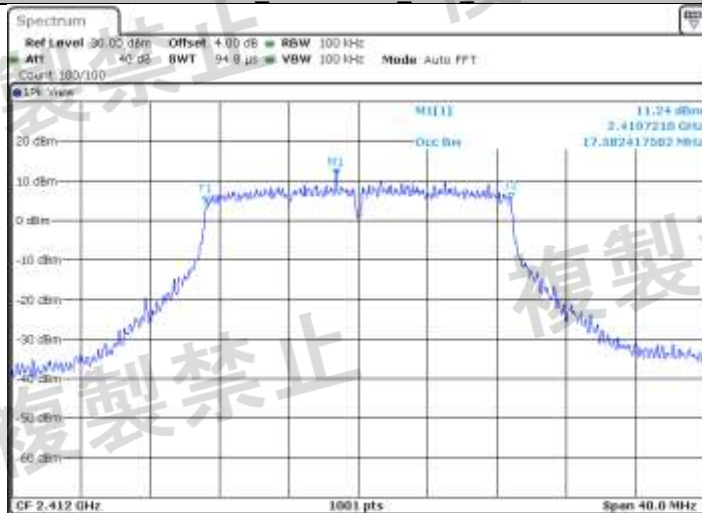
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NTNV_11G_Ant1_2472



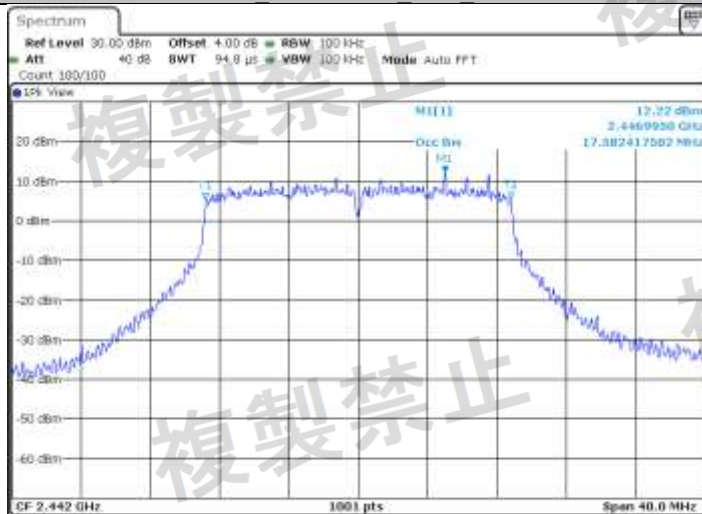
Date: 4 FEB 2021 19:44:59

NTNV_11N20SISO_Ant1_2412



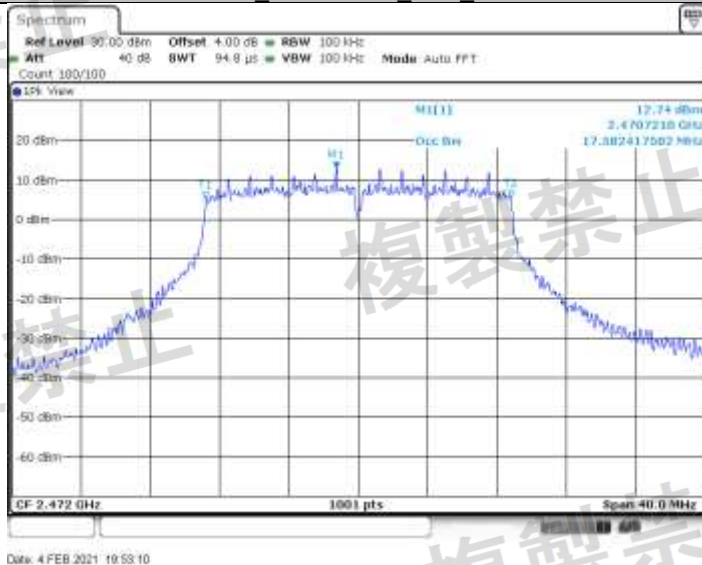
Date: 4 FEB 2021 19:50:21

NTNV_11N20SISO_Ant1_2442



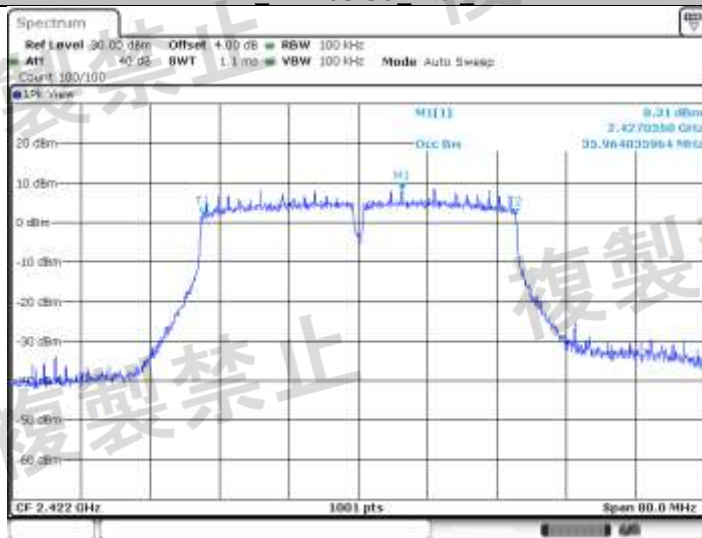
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NTNV_11N20SISO_Ant1_2472



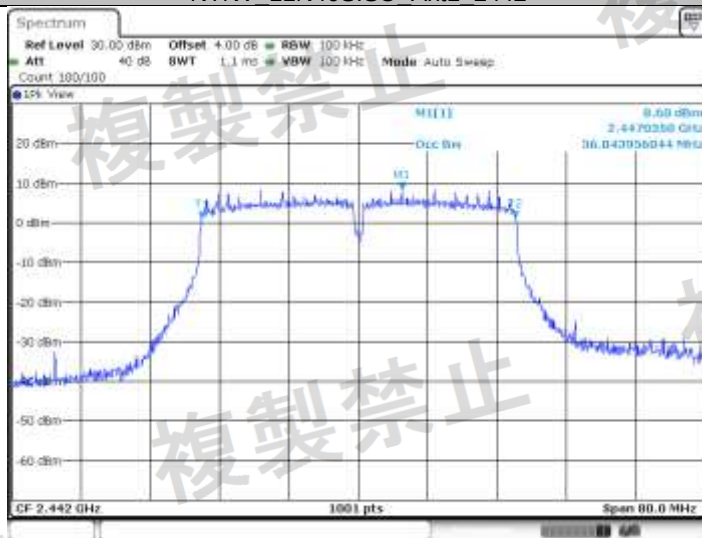
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NTNV_11N40SISO_Ant1_2422



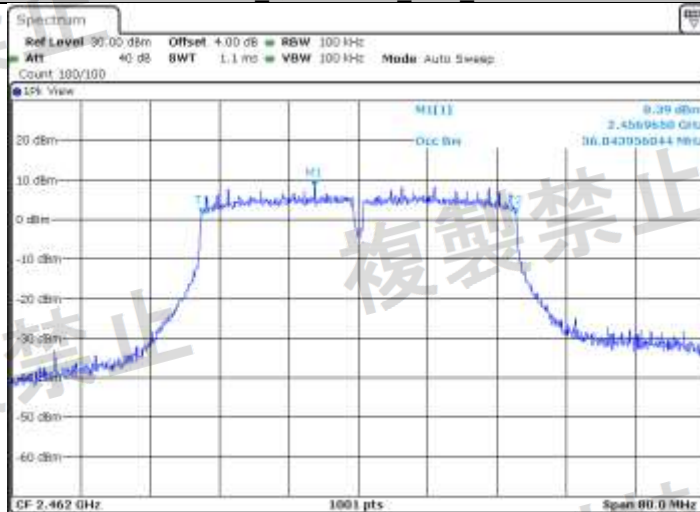
Date: 4 FEB 2021 20:00:17

NTNV_11N40SISO_Ant1_2442



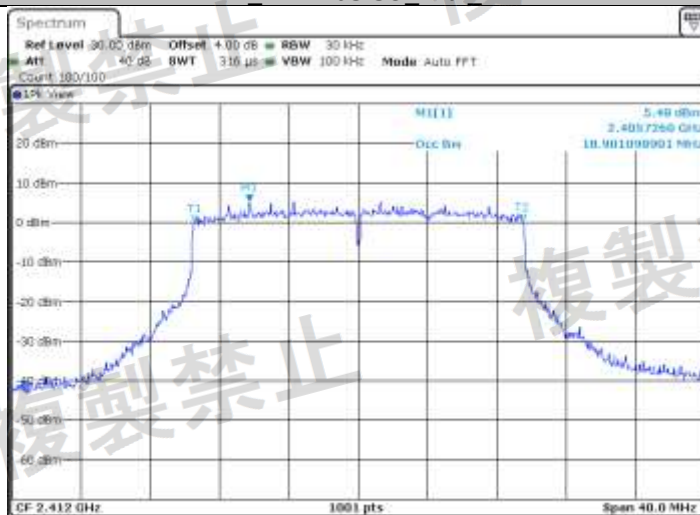
Date: 4 FEB 2021 20:02:18

NTNV_11N40SISO_Ant1_2462



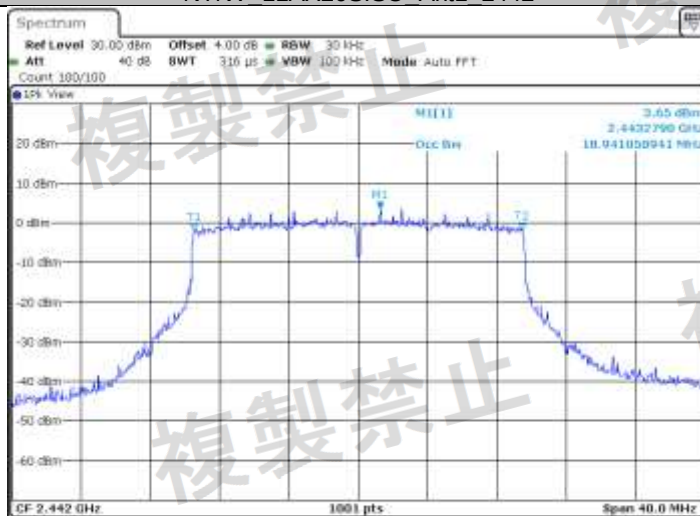
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NTNV_11AX20SISO_Ant1_2412



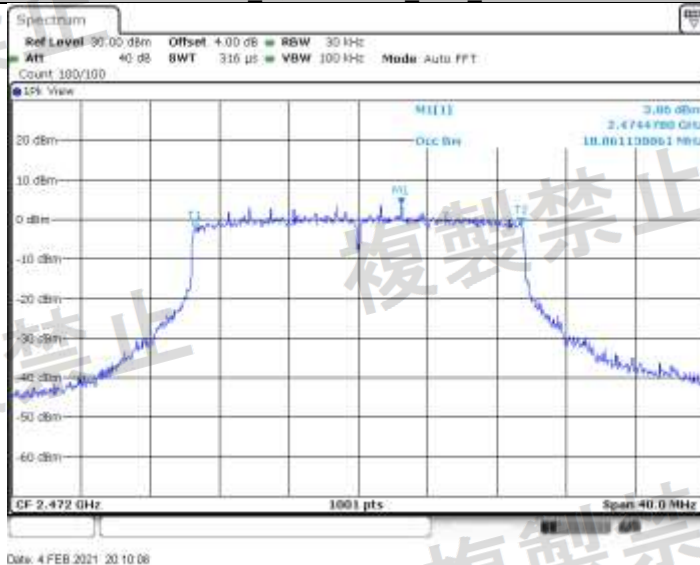
Date: 4 FEB 2021 20:08:56

NTNV_11AX20SISO_Ant1_2442

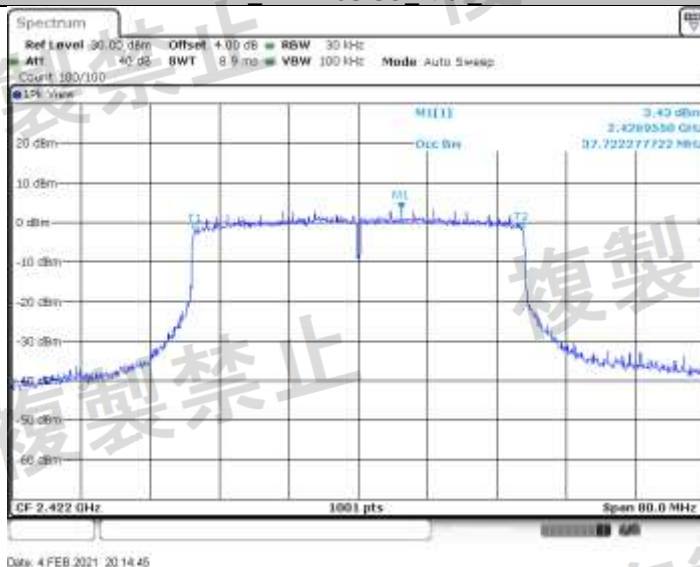


Date: 4 FEB 2021 20:08:51

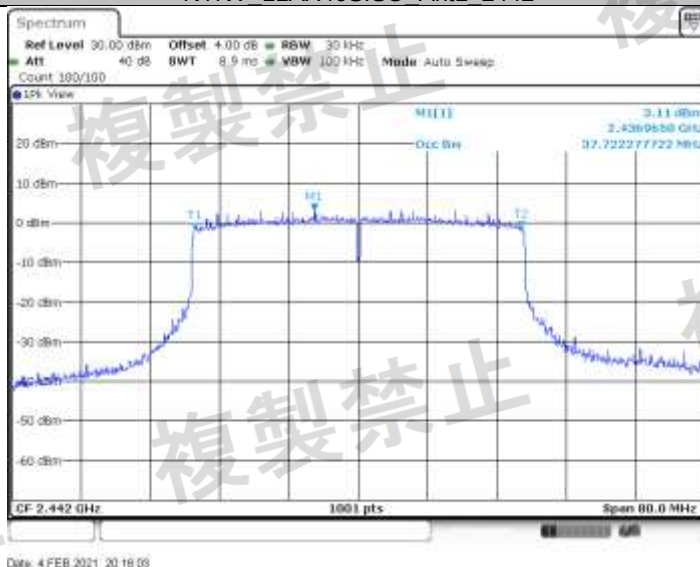
NTNV_11AX20SISO_Ant1_2472



NTNV_11AX40SISO_Ant1_2422



NTNV_11AX40SISO_Ant1_2442





3.4.4 Result

The equipment met the requirement of this clause.

3.5 Spread Bandwidth

3.5.1 Test condition

Test position:	Transmitting
Ambient temperature:	23.1°C
Relative humidity:	51.3%
Atmosphere Pressure:	101.8KPa

3.5.2 Limit (ARIB STD-T66, Clause 3.2 (8))

In spread spectrum systems, spread bandwidth (which refers to a frequency bandwidth with an upper limit and lower limit such that each of the mean powers radiated above the upper frequency limit and below the lower frequency limit is equal to 5 % of the total mean power radiated; this also applies hereafter) shall be 500 kHz or more

3.5.3 Test Result

11b

Test Frequency (MHz)	Voltage (VDC)	Result (MHz)	Limit (kHz)
2412	48VDC	8.032	>500
2442	48VDC	8.032	>500
2472	48VDC	8.072	>500

11g

Test Frequency (MHz)	Voltage (VDC)	Result (MHz)	Limit (kHz)
2412	48VDC	14.545	>500
2442	48VDC	14.545	>500
2472	48VDC	14.505	>500

11nHT20

Test Frequency (MHz)	Voltage (VDC)	Result (MHz)	Limit (kHz)
2412	48VDC	15.265	>500
2442	48VDC	15.584	>500
2472	48VDC	15.265	>500

11nHT40

Test Frequency (MHz)	Voltage (VDC)	Result (MHz)	Limit (kHz)
2422	48VDC	31.648	>500
2442	48VDC	31.648	>500
2462	48VDC	31.648	>500

11ax20

Test Frequency (MHz)	Voltage (VDC)	Result (MHz)	Limit (kHz)
2412	48VDC	16.583	>500
2442	48VDC	16.663	>500
2472	48VDC	16.663	>500

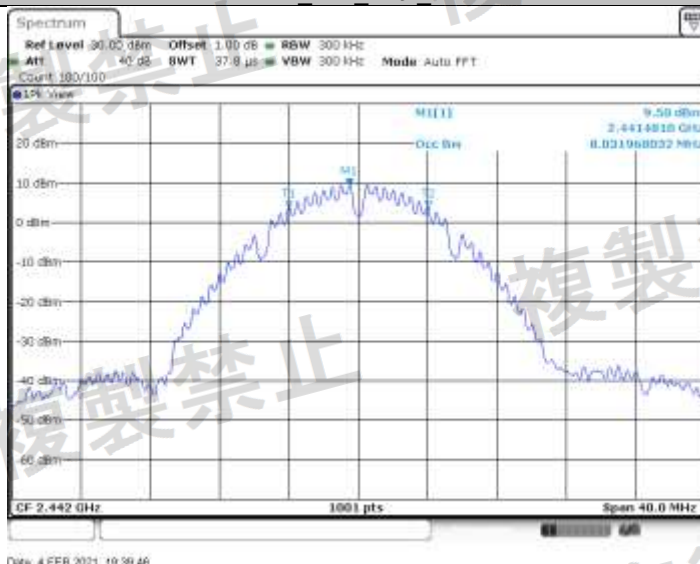
11ax40

Test Frequency (MHz)	Voltage (VDC)	Result (MHz)	Limit (kHz)
2422	48VDC	33.247	>500
2442	48VDC	33.167	>500
2462	48VDC	33.407	>500

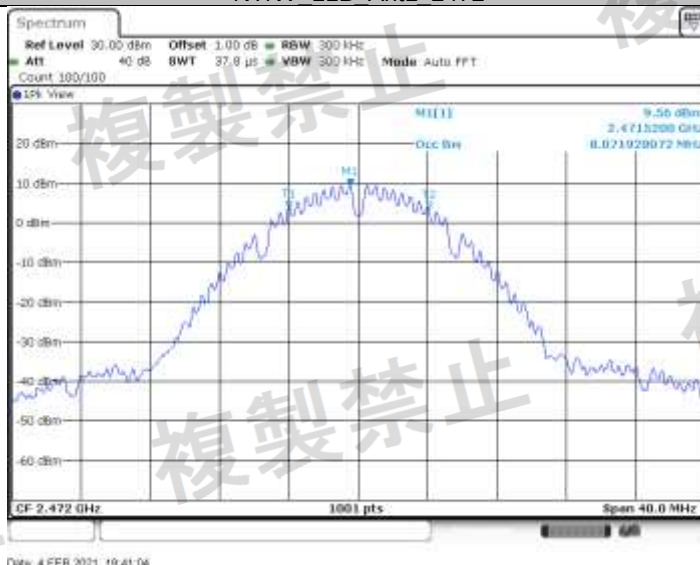
NTNV 11B_Ant1_2412



NTNV 11B_Ant1_2442



NTNV 11B_Ant1_2472

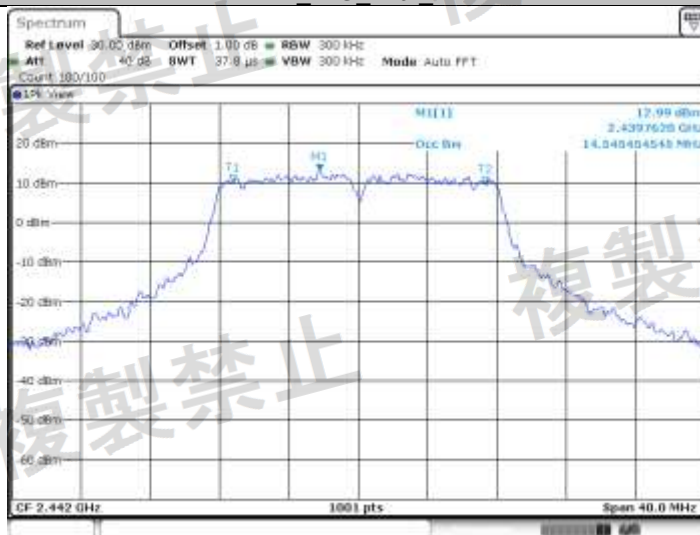


NTNV_11G_Ant1_2412



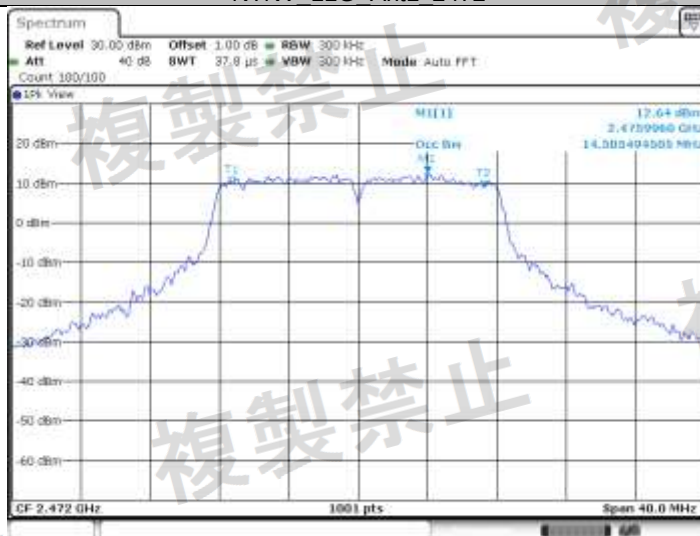
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NTNV_11G_Ant1_2442



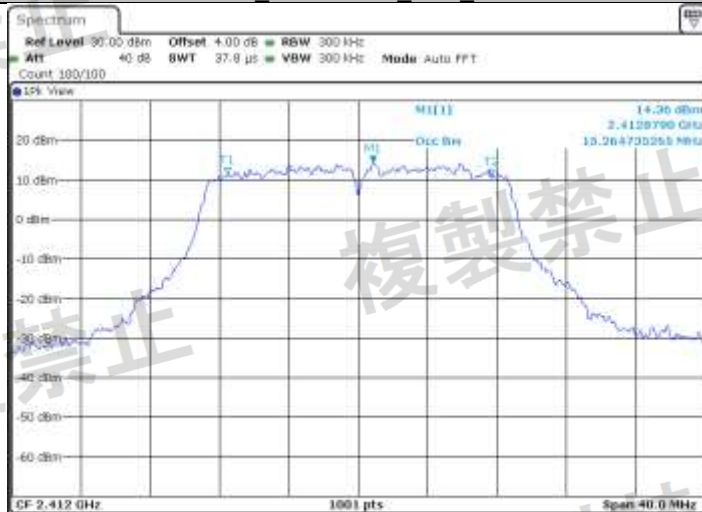
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NTNV_11G_Ant1_2472



Date: 4 FEB 2021 19:45:10

NTNV_11N20SISO_Ant1_2412



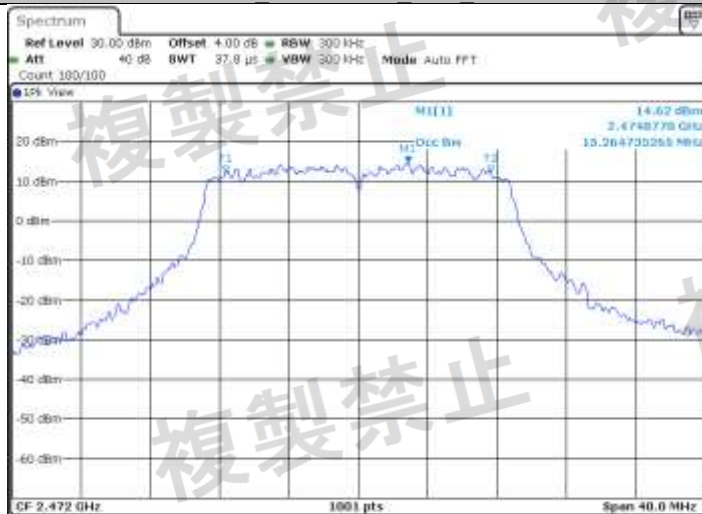
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NTNV_11N20SISO_Ant1_2442



Date: 4 FEB 2021 19:51:46

NTNV_11N20SISO_Ant1_2472



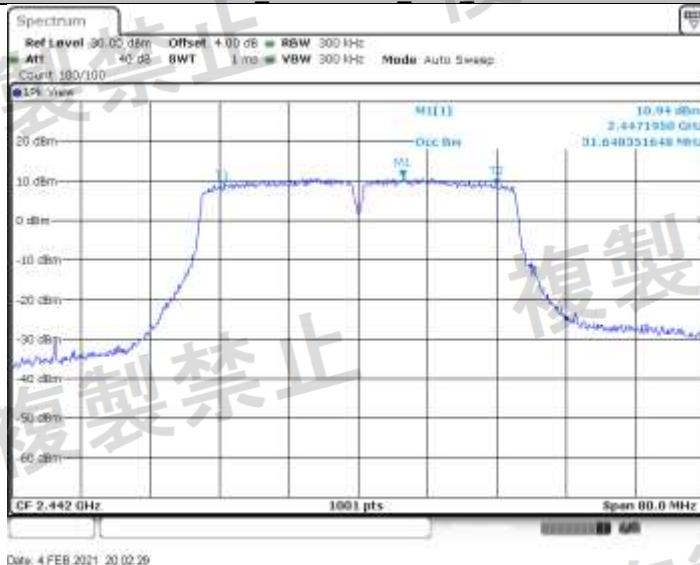
Date: 4 FEB 2021 19:53:22

NTNV_11N40SISO_Ant1_2422



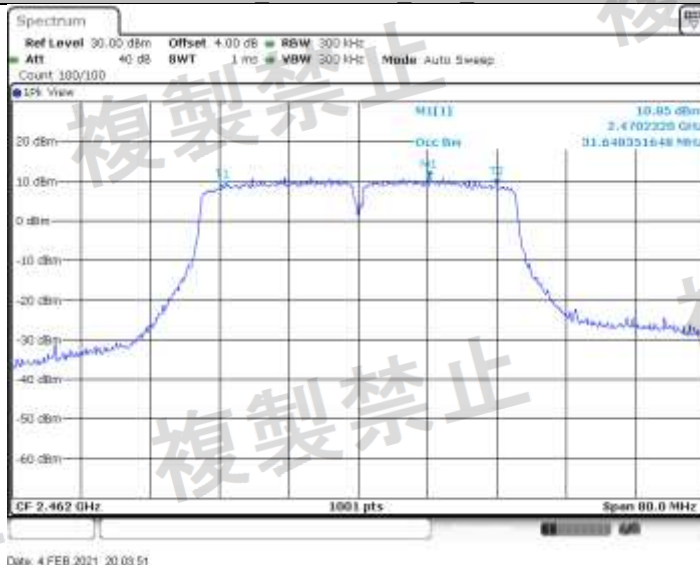
Date: 4 FEB 2021 20:00:29

NTNV_11N40SISO_Ant1_2442



Date: 4 FEB 2021 20:02:29

NTNV_11N40SISO_Ant1_2462



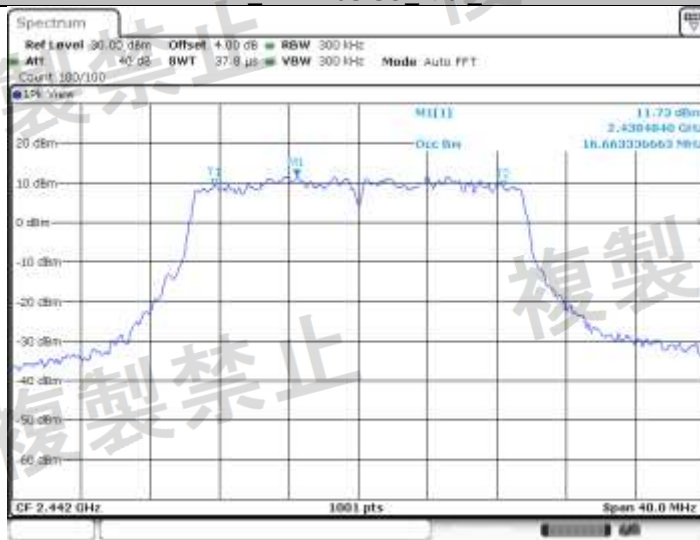
Date: 4 FEB 2021 20:03:51

NTNV_11AX20SISO_Ant1_2412



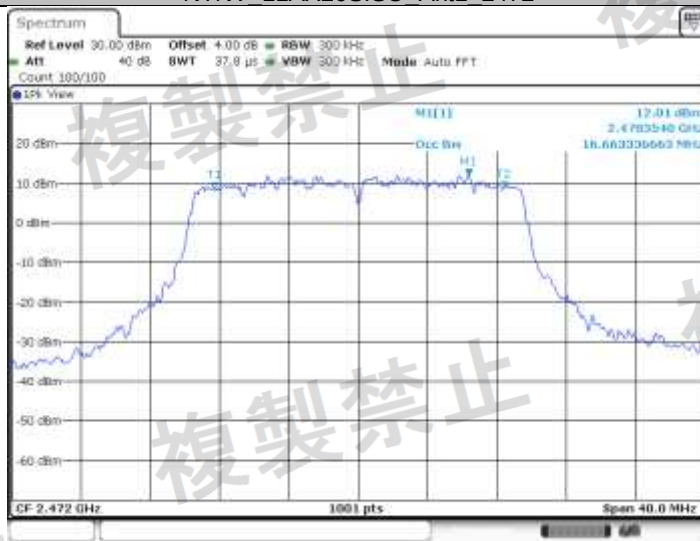
Date: 4 FEB 2021 20:07:07

NTNV_11AX20SISO_Ant1_2442



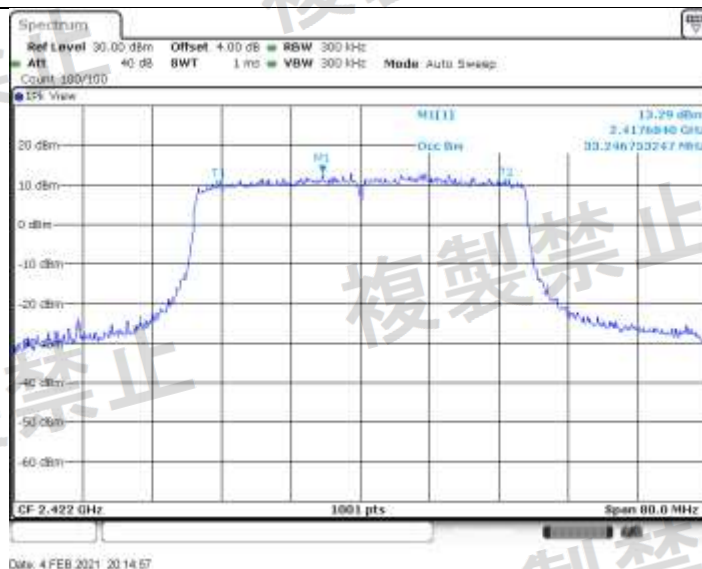
Date: 4 FEB 2021 20:09:02

NTNV_11AX20SISO_Ant1_2472

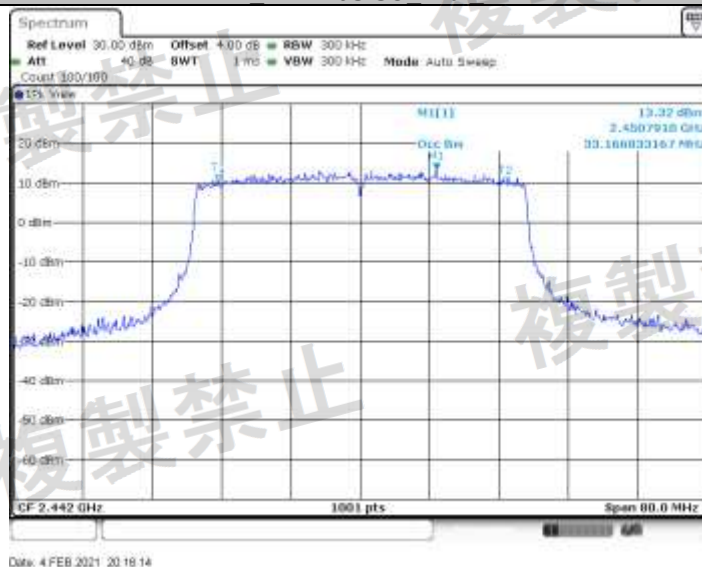


Date: 4 FEB 2021 20:10:20

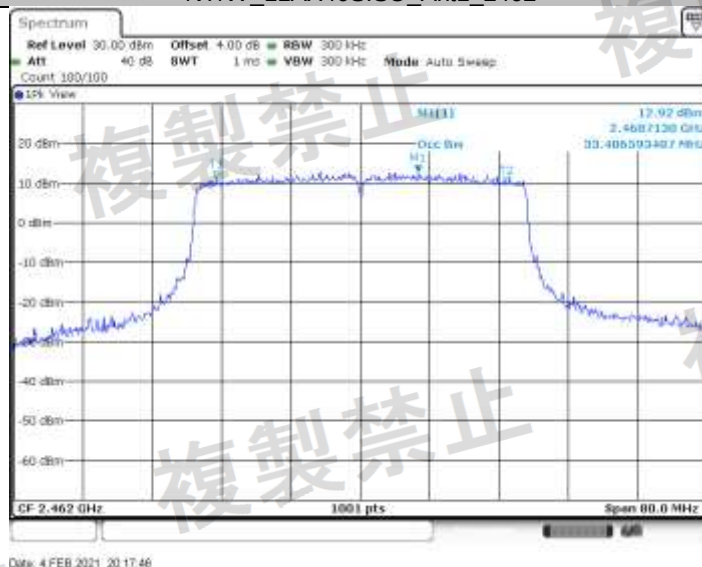
NTNV_11AX40SISO_Ant1_2422



NTNV_11AX40SISO_Ant1_2442



NTNV_11AX40SISO_Ant1_2462



3.5.4 Result

The equipment met the requirement of this clause

3.6 Process Gain & Transmission Rate

3.6.1 Test condition

Test position:	Transmitting
Ambient temperature:	23.1°C
Relative humidity:	51.3%
Atmosphere Pressure:	101.8KPa

3.6.2 Limit (ARIB STD-T66, Clause 3.2 (9))

Process gain (value obtained by dividing the spread bandwidth by a frequency equal to the transmission rate of the modulation signal; this also applies hereafter) in the spread spectrum system shall be 5 or more.

3.6.3 Test Result

Modulation	Channel	Voltage (DC)	Spread Bandwidth (MHz)	Symbol rate (Mbps)	Result	Limit
11b	2412	48	8.032	1.375	5.84	≥5
	2442	48	8.032	1.375	5.84	≥5
	2472	48	8.072	1.375	5.87	≥5
11g	2412	48	14.545	1.5	9.70	≥5
	2442	48	14.545	1.5	9.70	≥5
	2472	48	14.505	1.5	9.67	≥5
11nHT20	2412	48	15.265	1.5	10.18	≥5
	2442	48	15.584	1.5	10.39	≥5
	2472	48	15.265	1.5	10.18	≥5
11nHT40	2422	48	31.648	3	10.55	≥5
	2442	48	31.648	3	10.55	≥5
	2462	48	31.648	3	10.55	≥5
11ax20	2412	48	16.583	1.5	11.06	≥5
	2442	48	16.663	1.5	11.11	≥5
	2472	48	16.663	1.5	11.11	≥5
11ax40	2422	48	33.247	3	11.08	≥5
	2442	48	33.167	3	11.06	≥5
	2462	48	33.407	3	11.14	≥5

The equipment met the requirement of this clause.

3.7 Transmitter Spurious Emissions (Conducted) (For transmitter)

3.7.1 Test condition

Test position:	Transmitting
Ambient temperature:	23.1°C
Relative humidity:	51.3%
Atmosphere Pressure:	101.8KPa

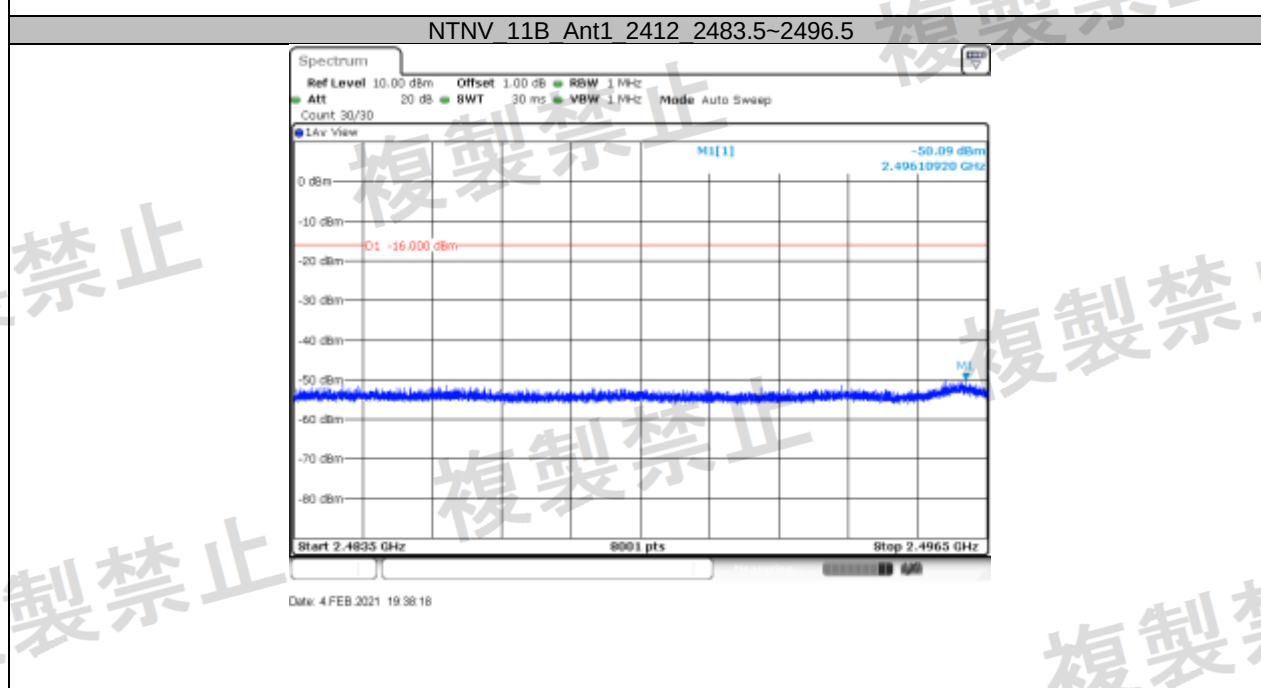
3.7.2 Limit (ARIB STD-T66, Clause 3.2 (6))

Permissible mean power of spurious emission of each frequency supplied to a feeder, that is, mean power of spurious emission in the 1 MHz bandwidth at frequency f other than frequency band used shall be as follows: a. $2,387\text{MHz} \leq f \leq 2,400\text{MHz}$ and $2,483.5\text{MHz} < f \leq 2,496.5\text{MHz}$ 25 μW or less b. $2,387\text{MHz} > f$ and $2,496.5\text{MHz} < f$ 2.5 μW or less

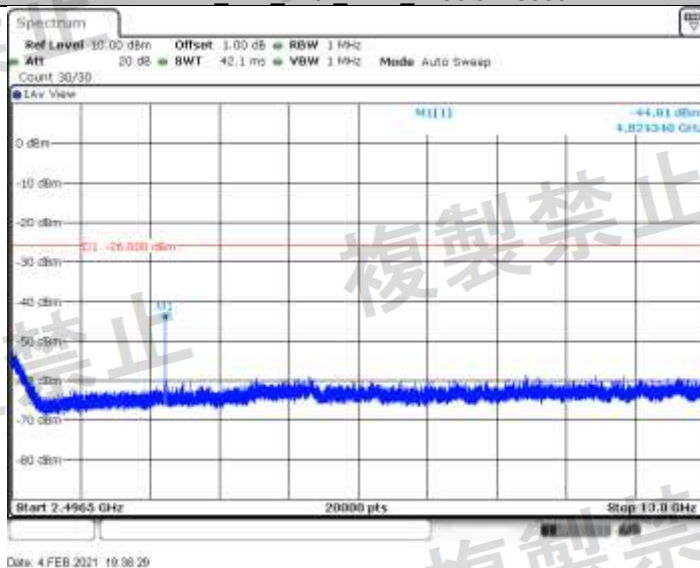
3.7.3 Test Result without beamforming

TestCondition	TestMode	Antenna	Channel	Freq.Range	Result	Limit	Verdict
NTNV	11B	Ant1	2412	30~2387	-53.07	<=-26	PASS
				2387~2400	-38.94	<=-16	PASS
				2483.5~2496.5	-50.09	<=-16	PASS
				2496.5~13000	-44.81	<=-26	PASS
			2442	30~2387	-53.6	<=-26	PASS
				2387~2400	-52.38	<=-16	PASS
				2483.5~2496.5	-50.22	<=-16	PASS
				2496.5~13000	-43.45	<=-26	PASS
			2472	30~2387	-54.6	<=-26	PASS
				2387~2400	-54.02	<=-16	PASS
				2483.5~2496.5	-34.26	<=-16	PASS
				2496.5~13000	-44.17	<=-26	PASS
	11G	Ant1	2412	30~2387	-41.65	<=-26	PASS
				2387~2400	-22.47	<=-16	PASS
				2483.5~2496.5	-50.63	<=-16	PASS
				2496.5~13000	-46.13	<=-26	PASS
			2442	30~2387	-54.55	<=-26	PASS
				2387~2400	-51.93	<=-16	PASS
				2483.5~2496.5	-47.19	<=-16	PASS
				2496.5~13000	-42.87	<=-26	PASS
			2472	30~2387	-54.69	<=-26	PASS
				2387~2400	-53.11	<=-16	PASS
				2483.5~2496.5	-17.43	<=-16	PASS
				2496.5~13000	-40.41	<=-26	PASS

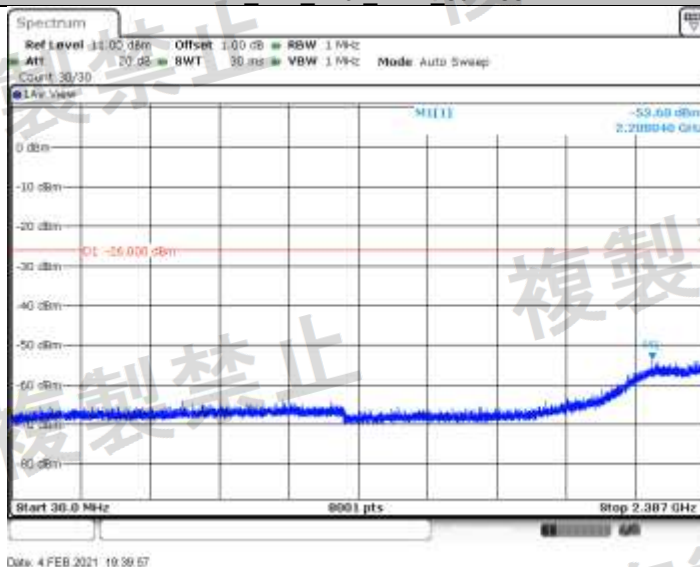
Note: we test all antenna ports for 802.11b/g respectively and only WORSE case (Ant 1) recorded in this report.



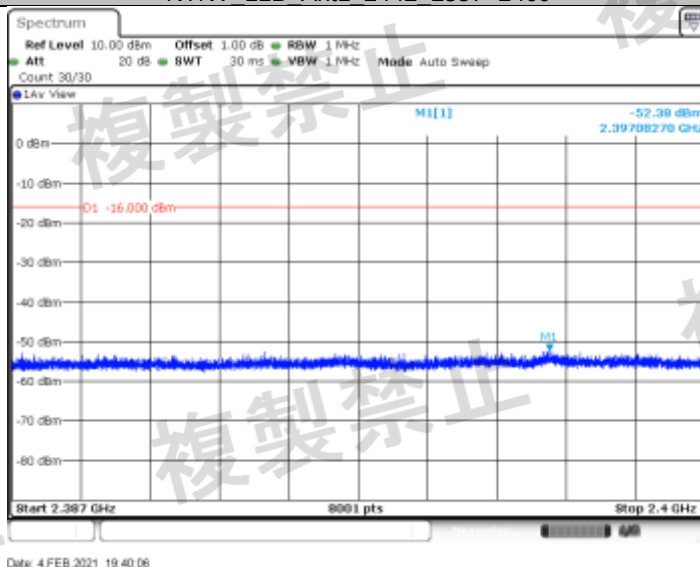
NTNV_11B_Ant1_2412_2496.5~13000



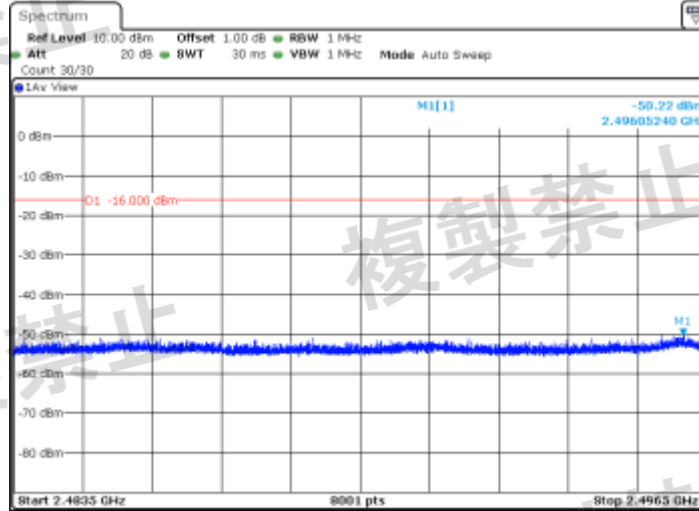
NTNV_11B_Ant1_2442_30~2387



NTNV_11B_Ant1_2442_2387~2400

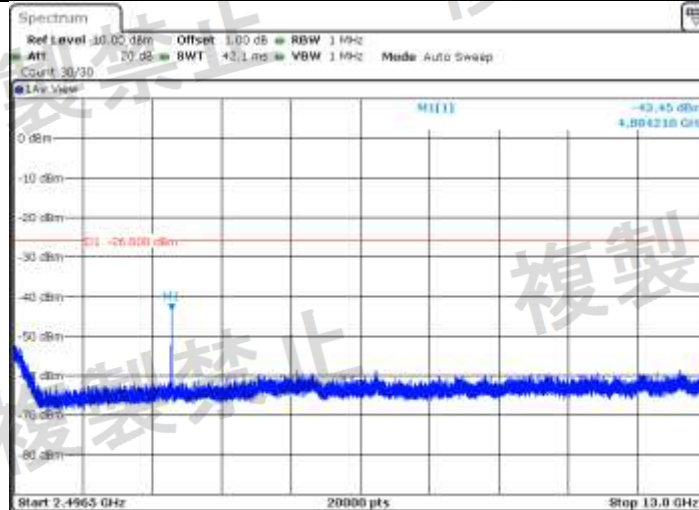


NTNV_11B_Ant1_2442_2483.5~2496.5



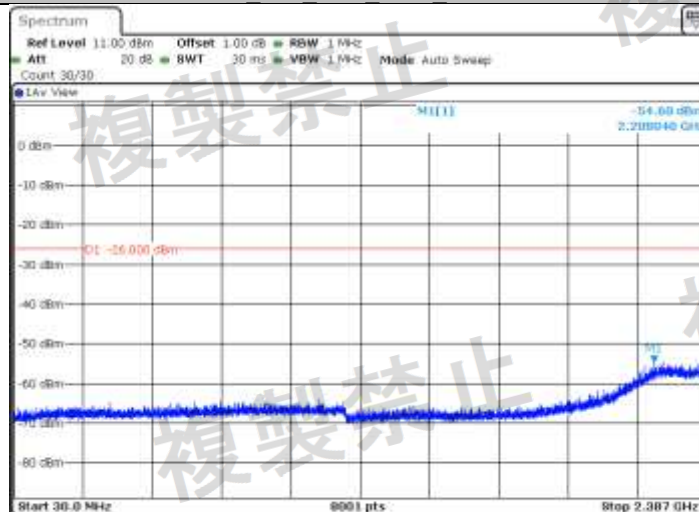
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NTNV_11B_Ant1_2442_2496.5~13000



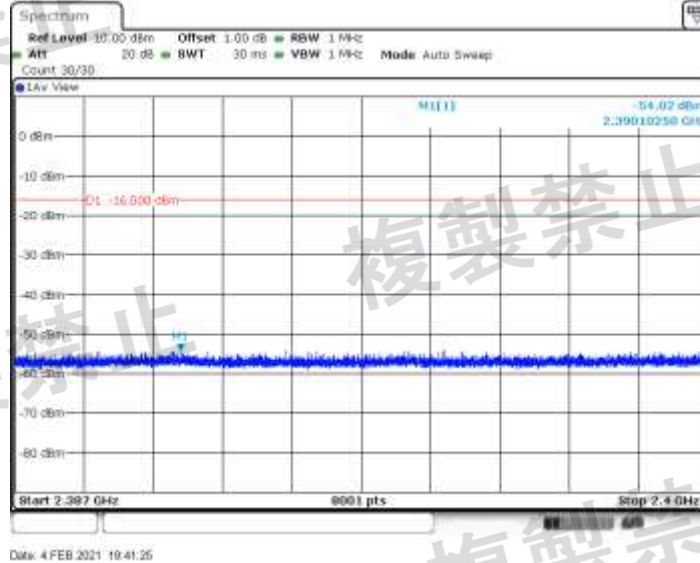
Date: 4 FEB 2021 19:40:20

NTNV_11B_Ant1_2472_30~2387

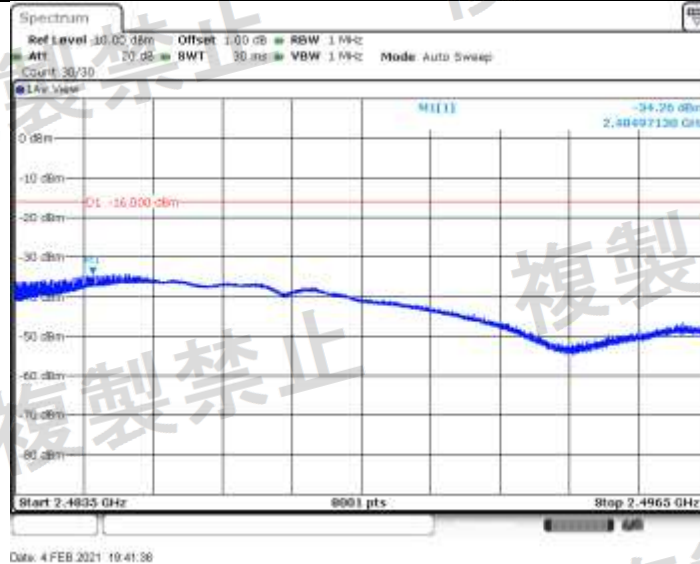


Date: 4 FEB 2021 19:41:15

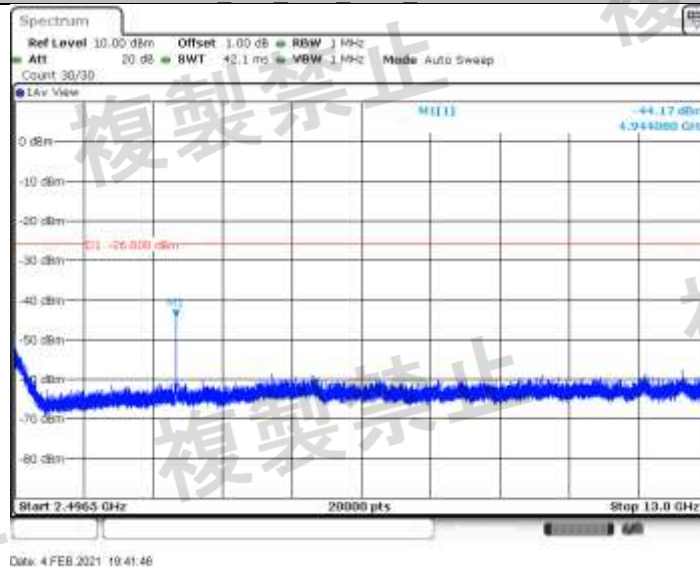
NTNV 11B Ant1 2472 2387~2400



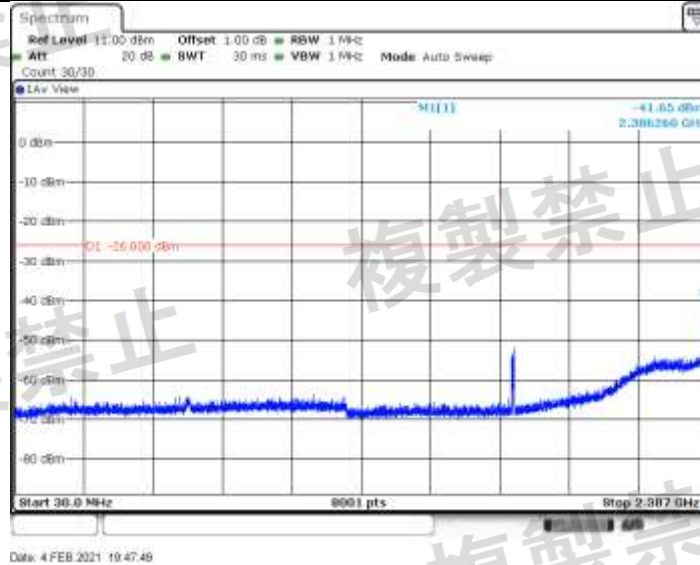
NTNV 11B Ant1 2472 2483.5~2496.5



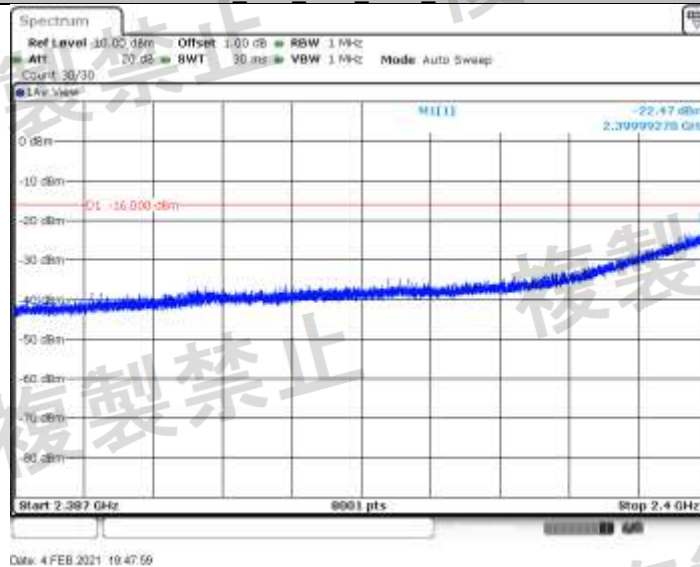
NTNV 11B Ant1 2472 2496.5~13000



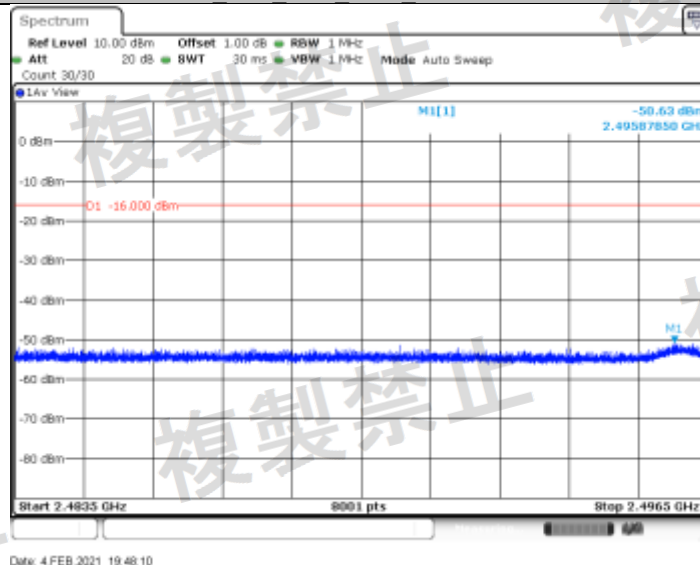
NTNV 11G Ant1 2412 30~2387



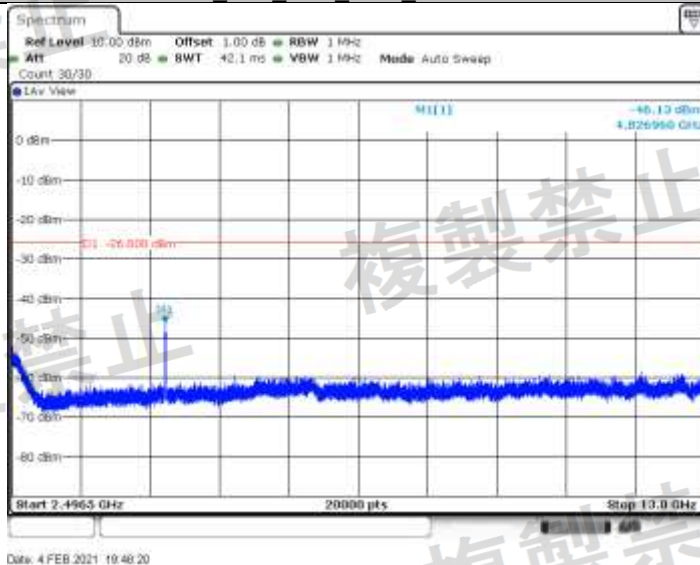
NTNV 11G Ant1 2412 2387~2400



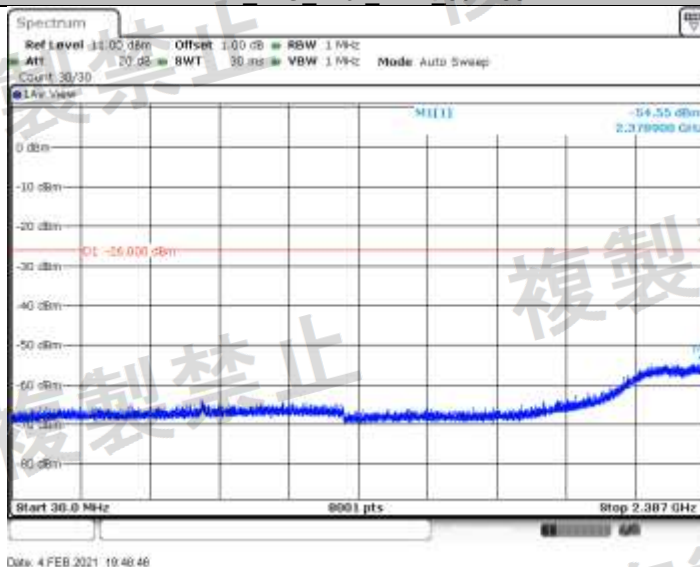
NTNV 11G Ant1 2412 2483.5~2496.5



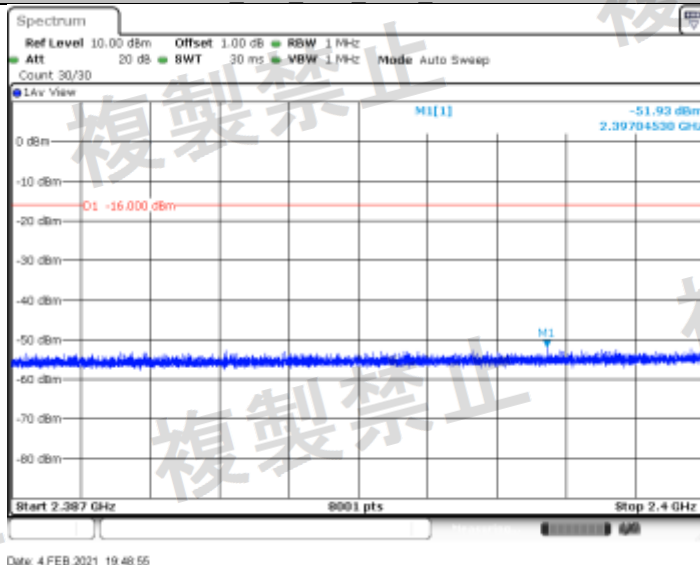
NTNV_11G_Ant1_2412_2496.5~13000



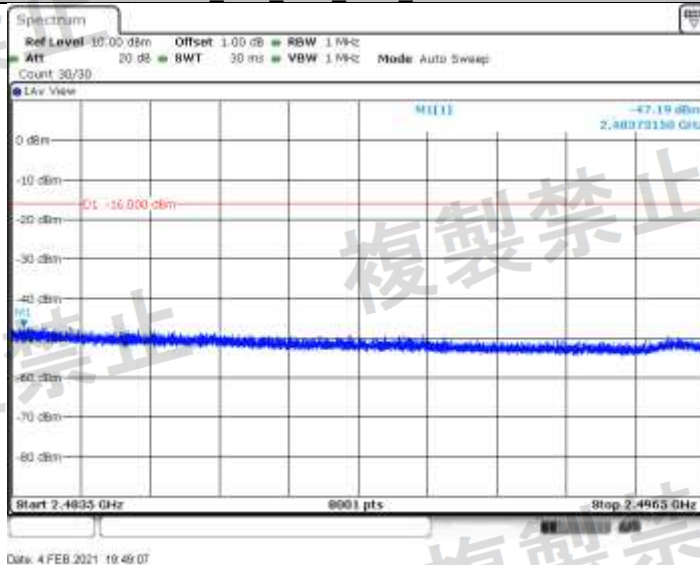
NTNV_11G_Ant1_2442_30~2387



NTNV_11G_Ant1_2442_2387~2400

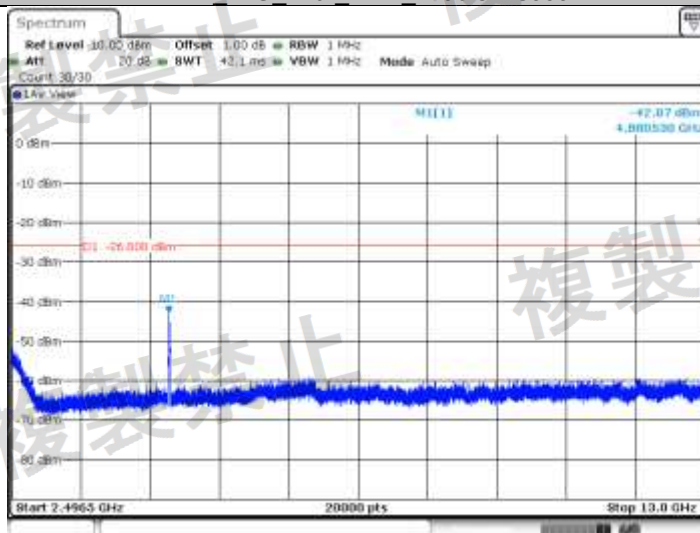


NTNV 11G Ant1 2442 2483.5~2496.5



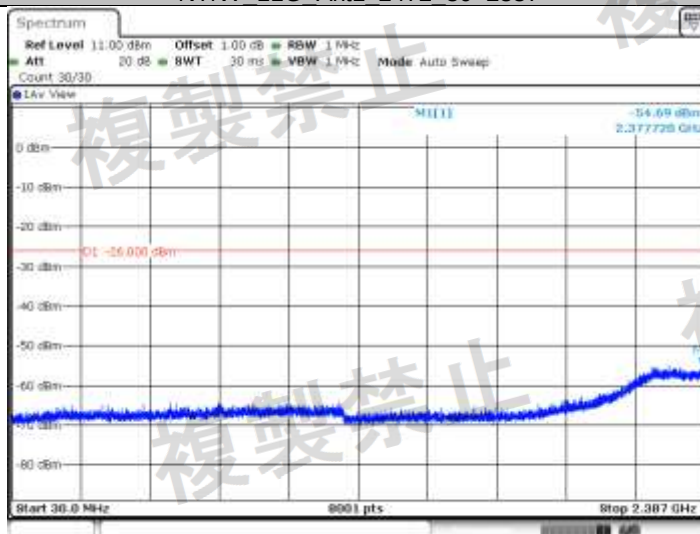
Date: 4 FEB 2021 19:49:07

NTNV 11G Ant1 2442 2496.5~13000



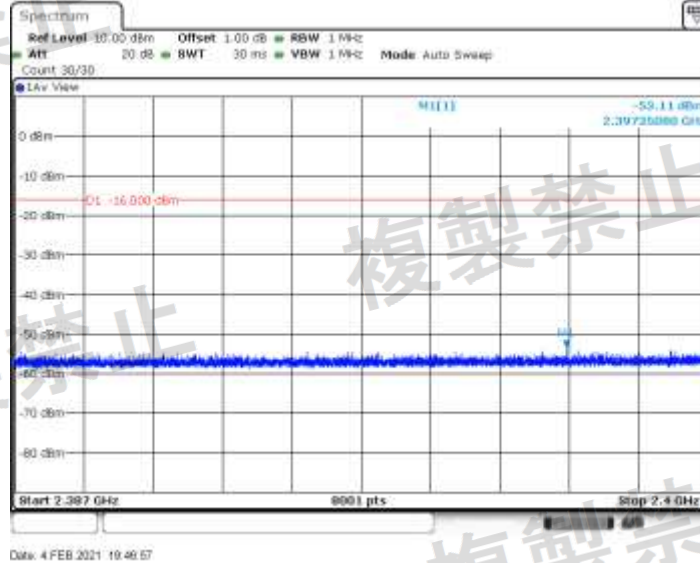
Date: 4 FEB 2021 19:49:17

NTNV 11G Ant1 2472 30~2387

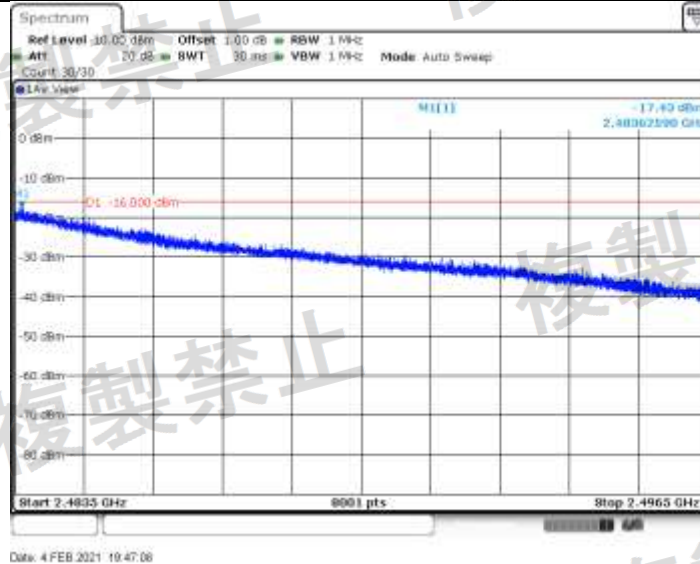


Date: 4 FEB 2021 19:49:46

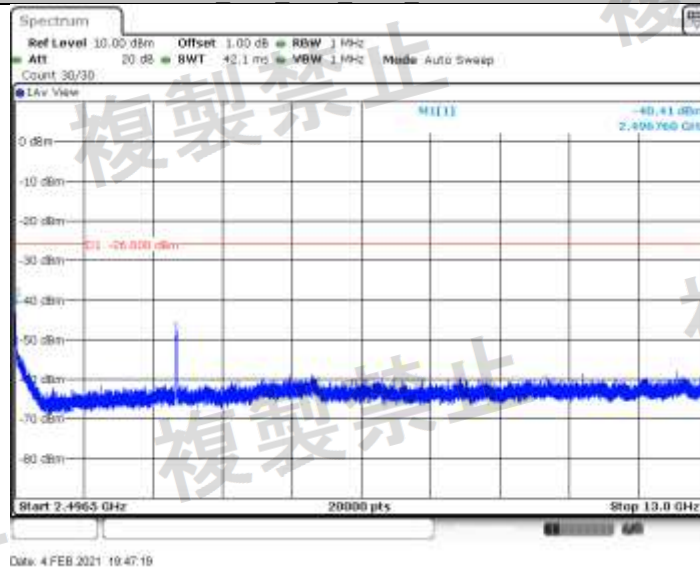
NTNV_11G_Ant1_2472_2387~2400



NTNV_11G_Ant1_2472_2483.5~2496.5



NTNV_11G_Ant1_2472_2496.5~13000

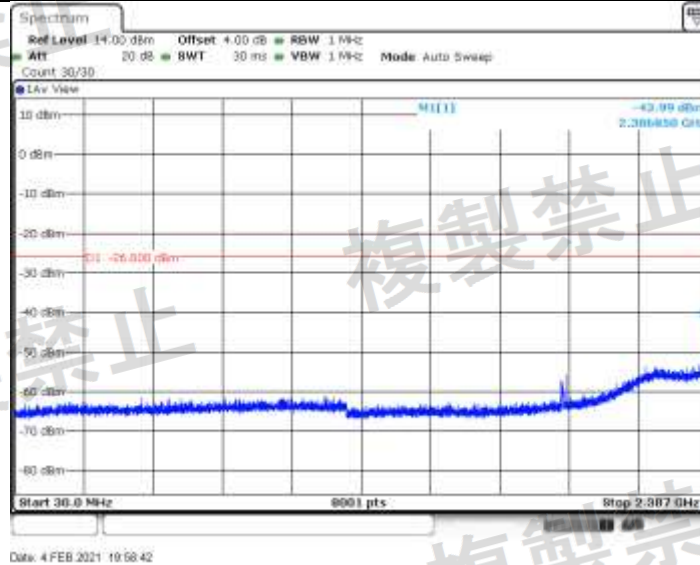


3.7.4 Test Result with beamforming

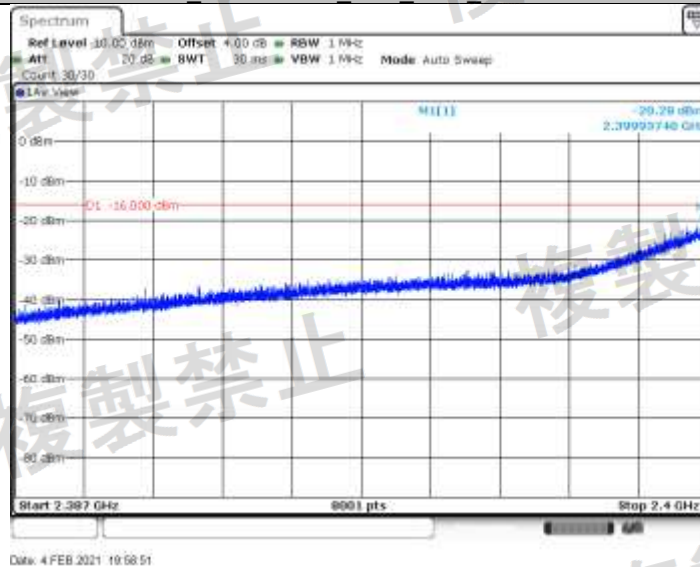
TestCondition	TestMode	Channel	Freq.Range	Result	Limit	Verdict
NTNV	11N20	2412	30~2387	-43.99	<=-26	PASS
			2387~2400	-20.28	<=-16	PASS
			2483.5~2496.5	-51.19	<=-16	PASS
			2496.5~13000	-46.01	<=-26	PASS
		2442	30~2387	-50.56	<=-26	PASS
			2387~2400	-48.17	<=-16	PASS
			2483.5~2496.5	-41.38	<=-16	PASS
			2496.5~13000	-40.34	<=-26	PASS
		2472	30~2387	-52.15	<=-26	PASS
			2387~2400	-51.2	<=-16	PASS
			2483.5~2496.5	-16.24	<=-16	PASS
			2496.5~13000	-38.64	<=-26	PASS
	11N40	2422	30~2387	-34.25	<=-26	PASS
			2387~2400	-21.36	<=-16	PASS
			2483.5~2496.5	-37.68	<=-16	PASS
			2496.5~13000	-41.77	<=-26	PASS
		2442	30~2387	-39.6	<=-26	PASS
			2387~2400	-35.28	<=-16	PASS
			2483.5~2496.5	-28.37	<=-16	PASS
			2496.5~13000	-38.31	<=-26	PASS
		2462	30~2387	-47.97	<=-26	PASS
			2387~2400	-42.32	<=-16	PASS
			2483.5~2496.5	-16.43	<=-16	PASS
			2496.5~13000	-26.77	<=-26	PASS

TestCondition	TestMode	Channel	Freq.Range	Result	Limit	Verdict
NTNV	11AX20	2412	30~2387	-44.79	<=-26	PASS
			2387~2400	-21.46	<=-16	PASS
			2483.5~2496.5	-51.11	<=-16	PASS
			2496.5~13000	-50.44	<=-26	PASS
		2442	30~2387	-53.29	<=-26	PASS
			2387~2400	-52.63	<=-16	PASS
			2483.5~2496.5	-47.77	<=-16	PASS
			2496.5~13000	-47.72	<=-26	PASS
		2472	30~2387	-54.33	<=-26	PASS
			2387~2400	-54.29	<=-16	PASS
			2483.5~2496.5	-17.49	<=-16	PASS
			2496.5~13000	-37.35	<=-26	PASS
	11AX40	2422	30~2387	-48.89	<=-26	PASS
			2387~2400	-44.98	<=-16	PASS
			2483.5~2496.5	-18.41	<=-16	PASS
			2496.5~13000	-29.74	<=-26	PASS
		2442	30~2387	-35.13	<=-26	PASS
			2387~2400	-30.32	<=-16	PASS
			2483.5~2496.5	-26.55	<=-16	PASS
			2496.5~13000	-36.64	<=-26	PASS
		2462	30~2387	-48.91	<=-26	PASS
			2387~2400	-43.83	<=-16	PASS
			2483.5~2496.5	-18.7	<=-16	PASS
			2496.5~13000	-29.05	<=-26	PASS

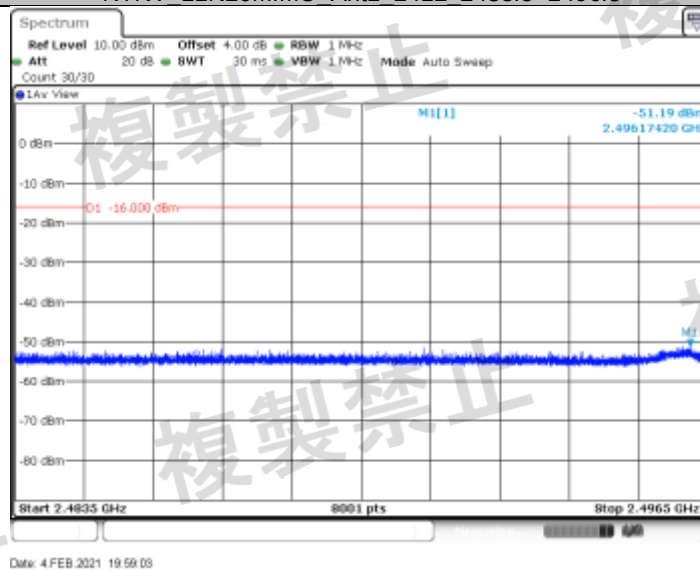
NTNV_11N20MIMO_Ant1_2412_30~2387



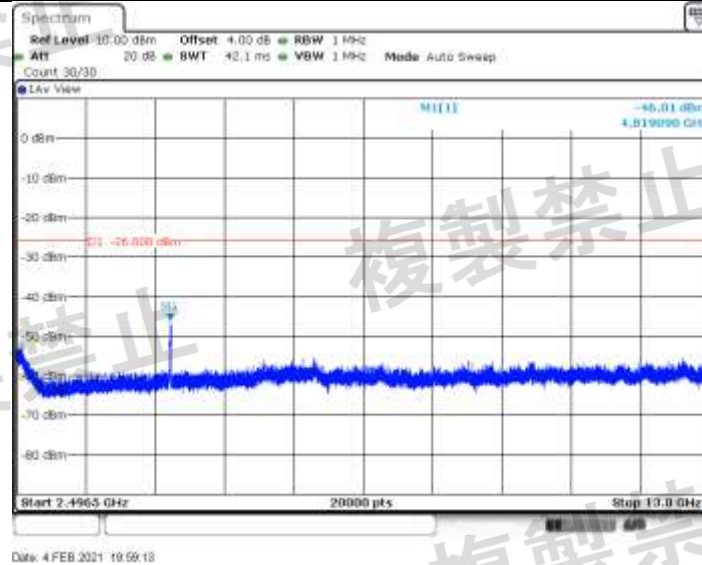
NTNV_11N20MIMO_Ant1_2412_2387~2400



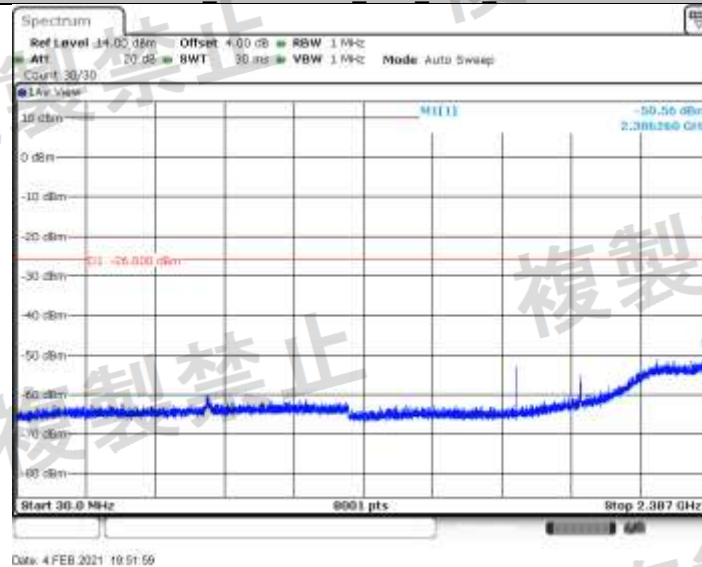
NTNV_11N20MIMO_Ant1_2412_2483.5~2496.5



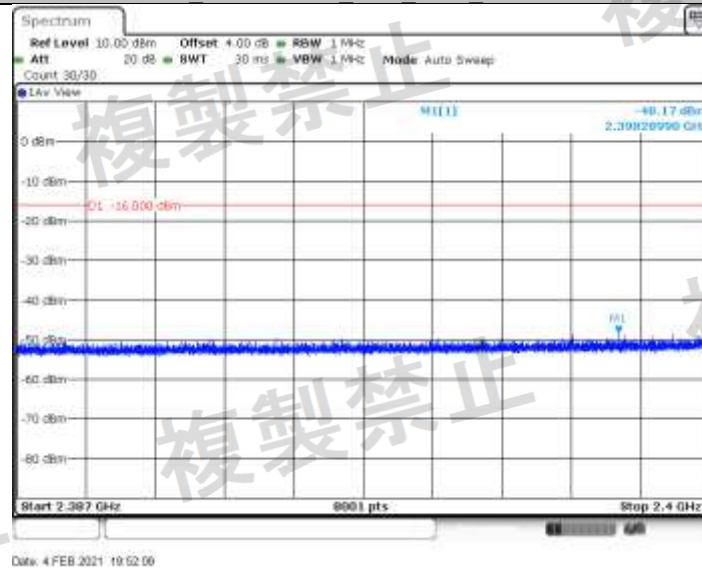
NTNV_11N20MIMO_Ant1_2412_2496.5~13000



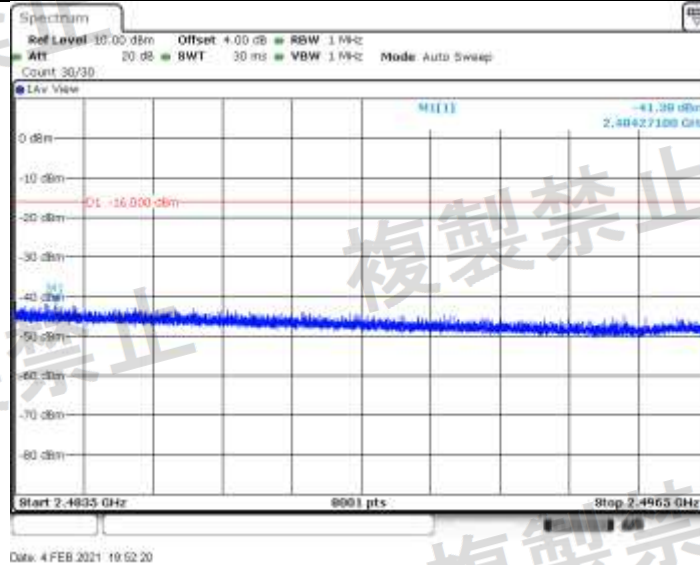
NTNV_11N20MIMO_Ant1_2442_30~2387



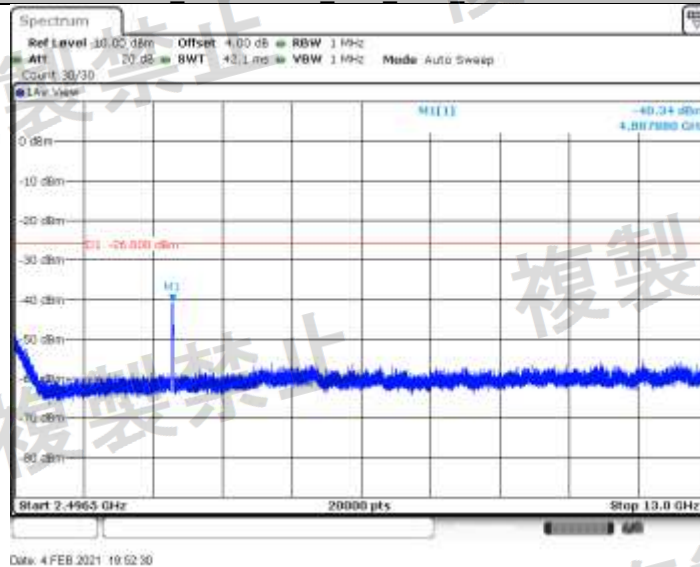
NTNV_11N20MIMO_Ant1_2442_2387~2400



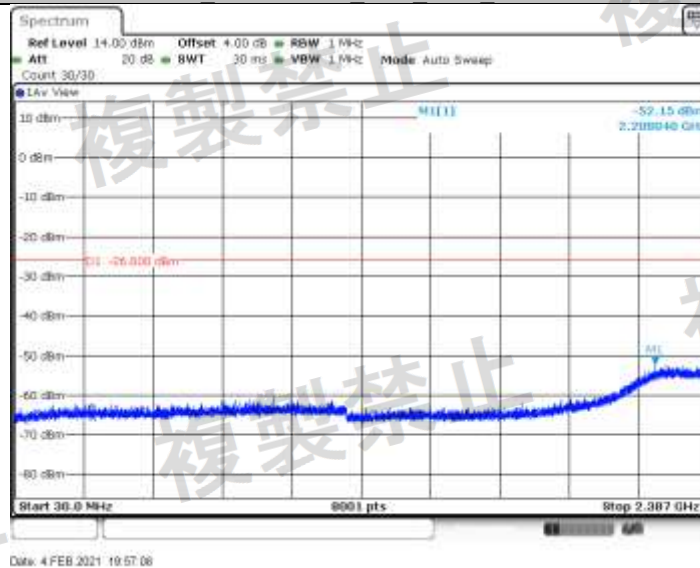
NTNV_11N20MIMO_Ant1_2442_2483.5~2496.5



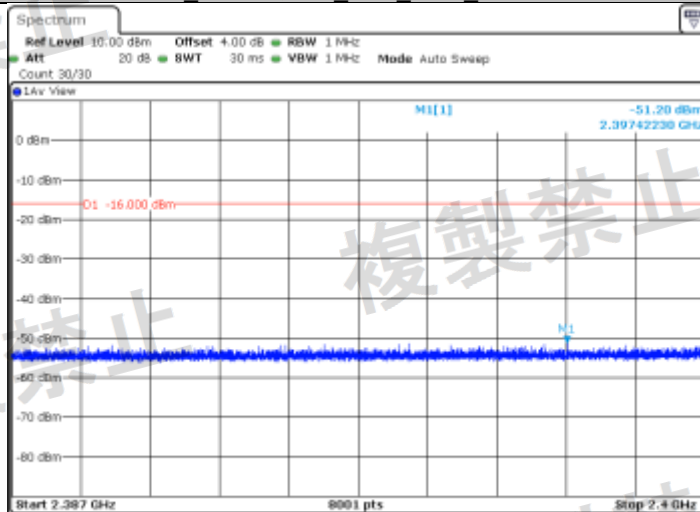
NTNV_11N20MIMO_Ant1_2496.5~13000



NTNV_11N20MIMO_Ant1_2472_30~2387

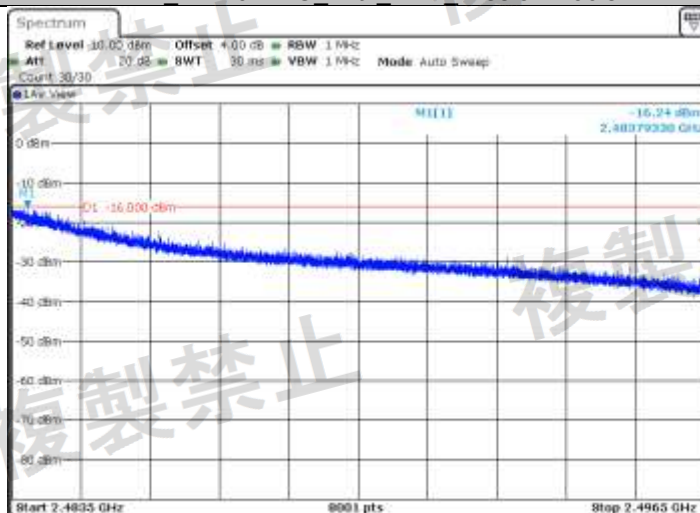


NTNV_11N20MIMO_Ant1_2472_2387~2400



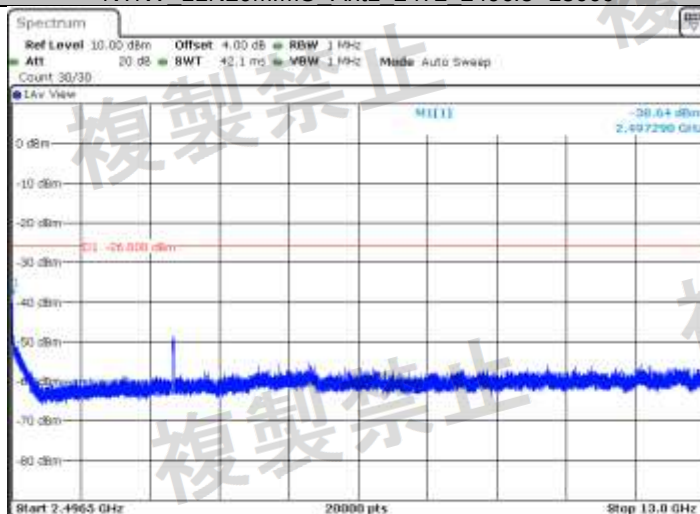
Date: 4 FEB 2021 19:57:17

NTNV_11N20MIMO_Ant1_2472_2483.5~2496.5



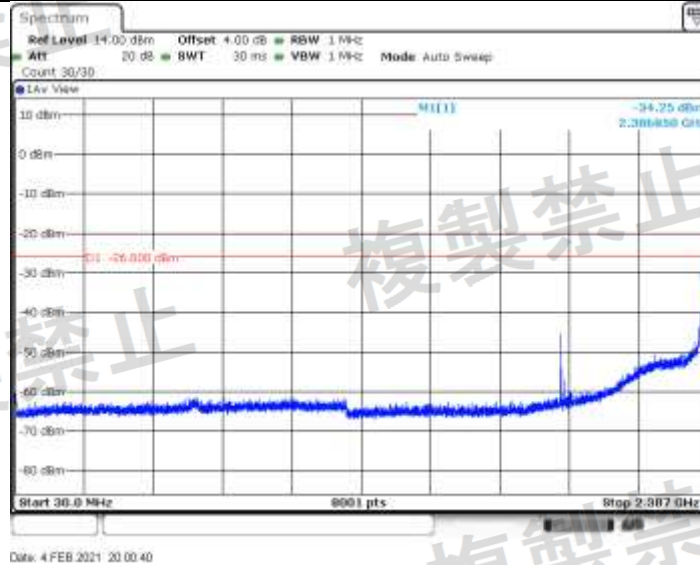
Date: 4 FEB 2021 19:57:29

NTNV_11N20MIMO_Ant1_2472_2496.5~13000

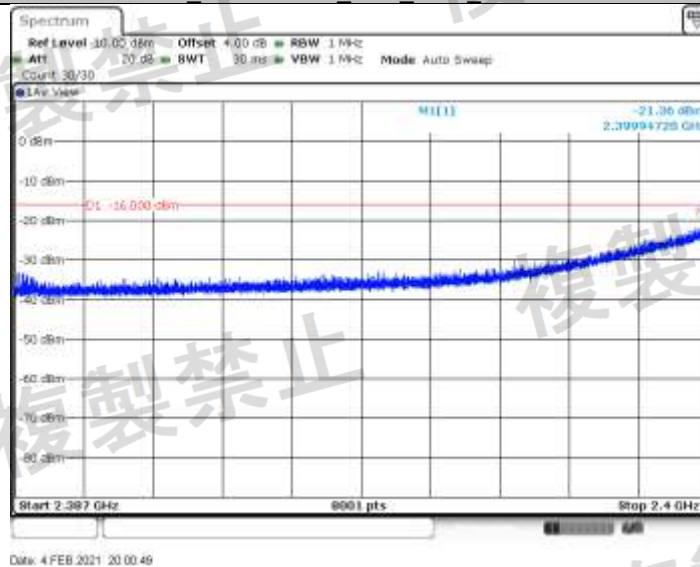


Date: 4 FEB 2021 19:57:39

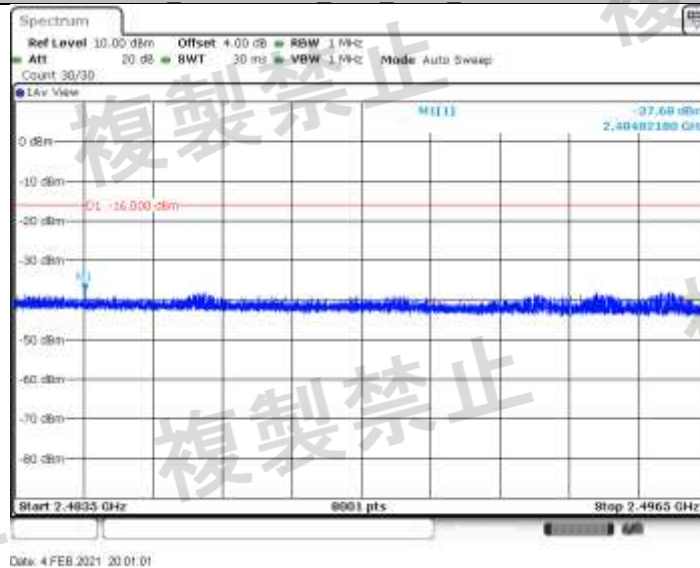
NTNV_11N40MIMO_Ant1_2422_30~2387



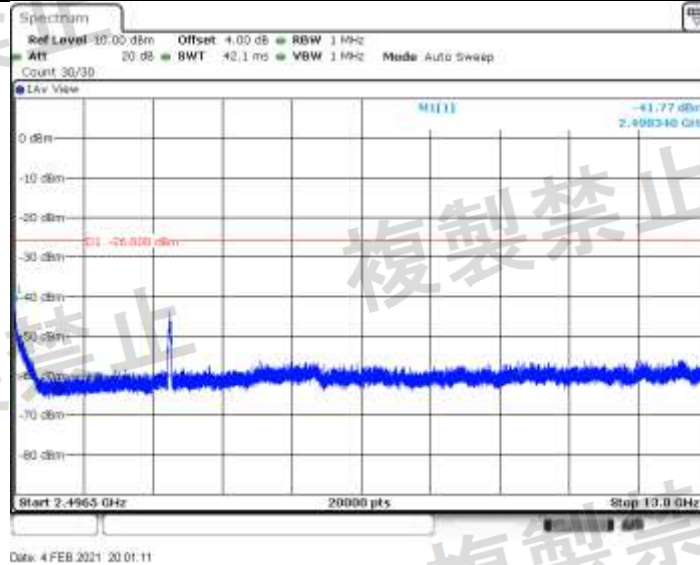
NTNV_11N40MIMO_Ant1_2422_2387~2400



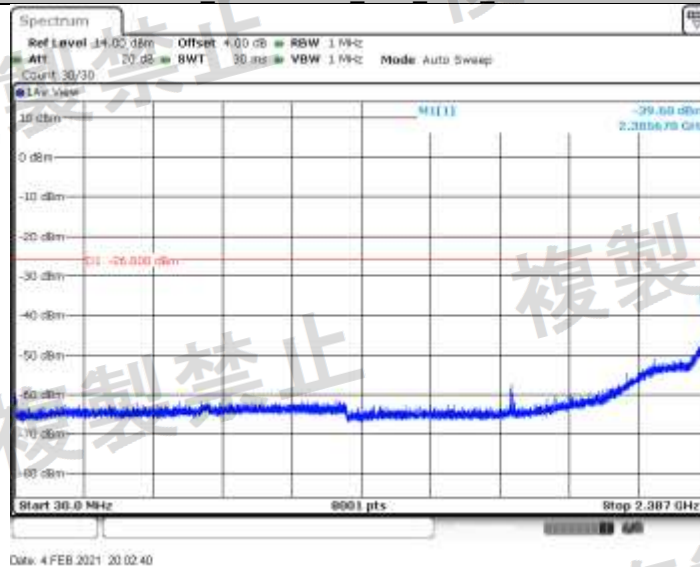
NTNV_11N40MIMO_Ant1_2422_2483.5~2496.5



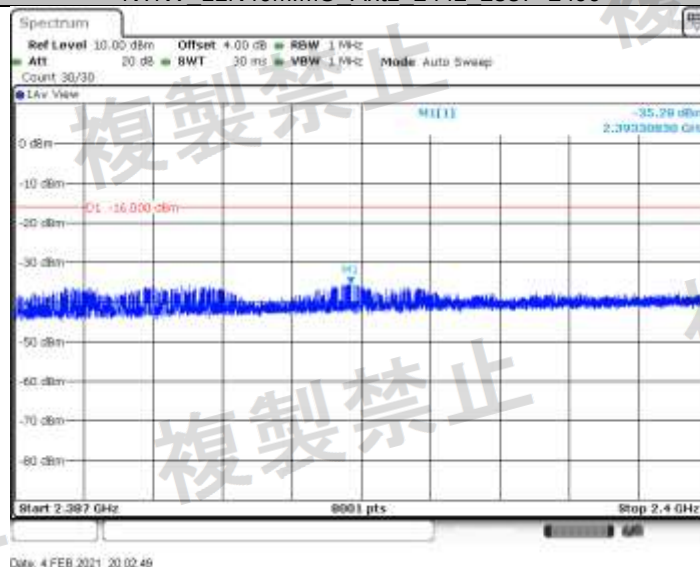
NTNV_11N40MIMO_Ant1_2422_2496.5~13000



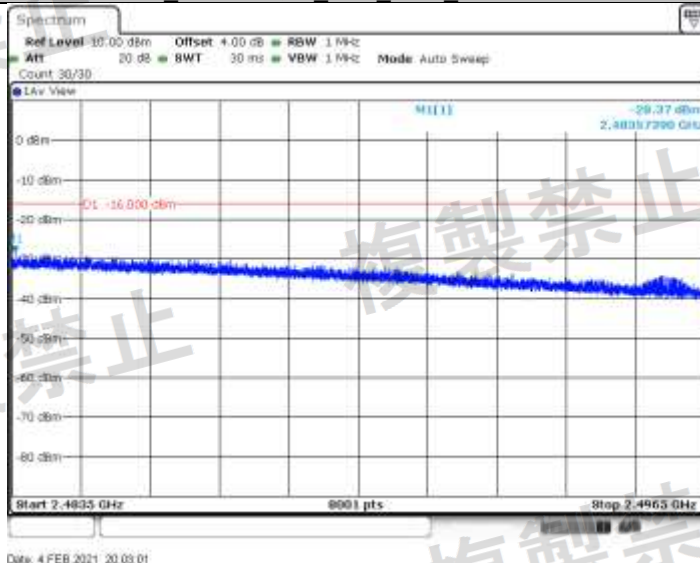
NTNV_11N40MIMO_Ant1_2442_30~2387



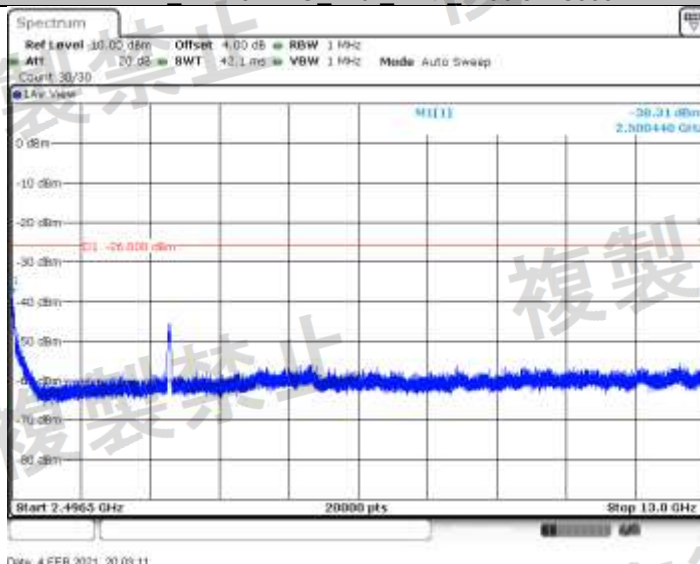
NTNV_11N40MIMO_Ant1_2442_2387~2400



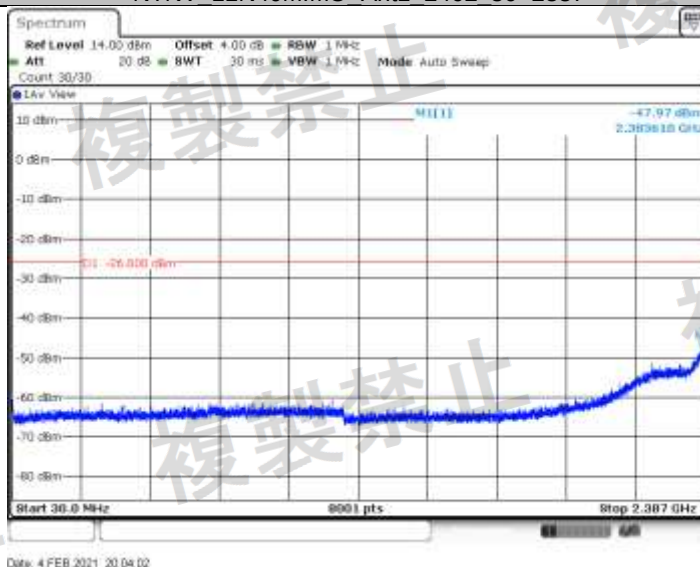
NTNV_11N40MIMO_Ant1_2442_2483.5~2496.5



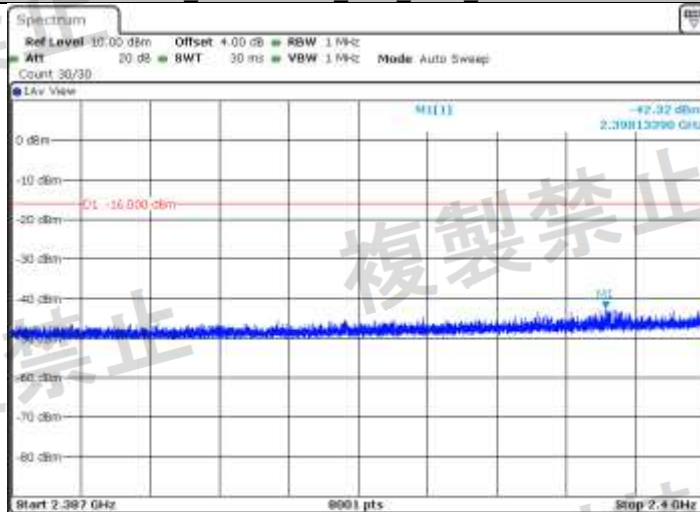
NTNV_11N40MIMO_Ant1_2496.5~13000



NTNV_11N40MIMO_Ant1_2462_30~2387

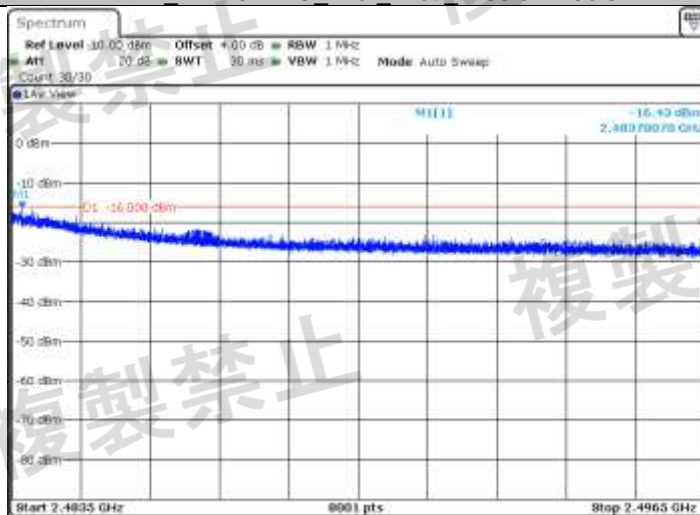


NTNV_11N40MIMO_Ant1_2462_2387~2400



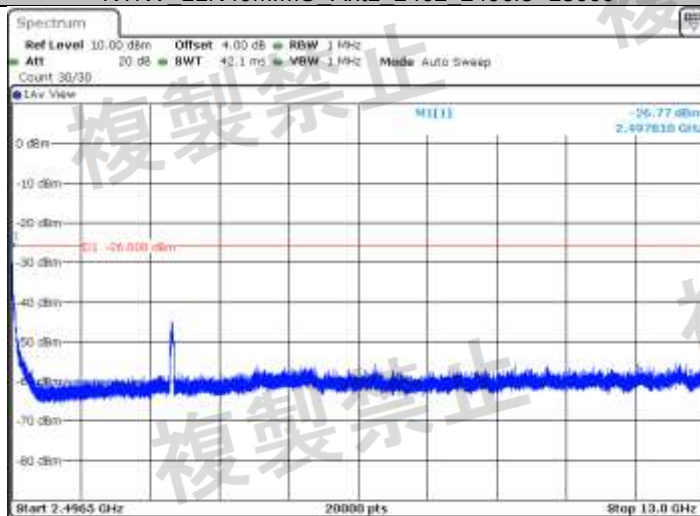
Date: 4 FEB 2021 20:04:11

NTNV_11N40MIMO_Ant1_2462_2483.5~2496.5



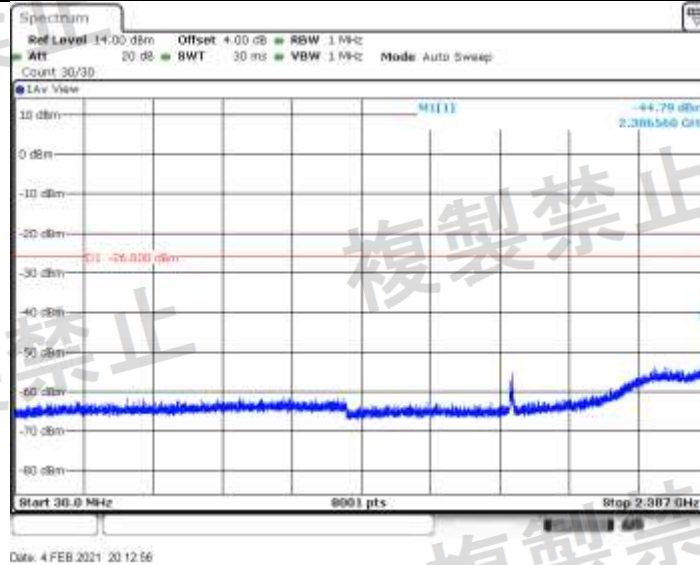
Date: 4 FEB 2021 20:04:22

NTNV_11N40MIMO_Ant1_2462_2496.5~13000

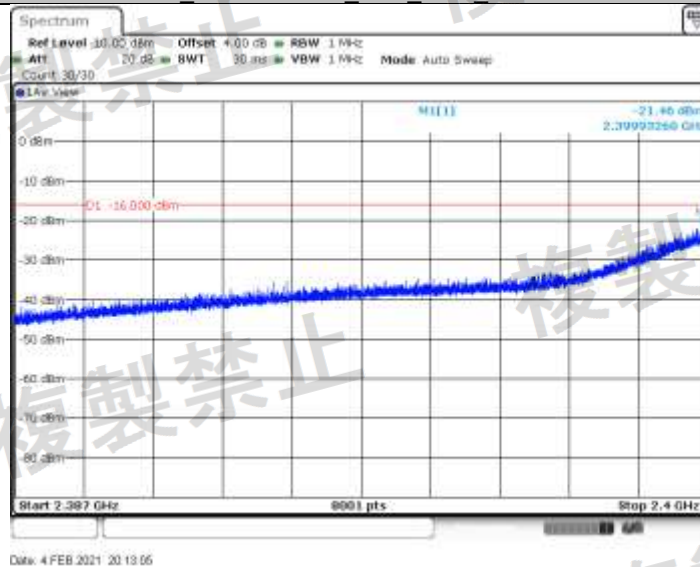


Date: 4 FEB 2021 20:04:33

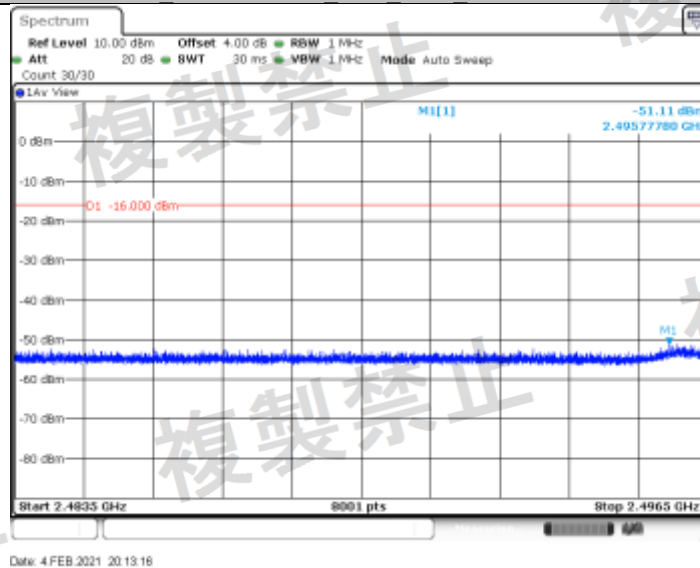
NTNV_11AX20MIMO_Ant1_2412_30~2387



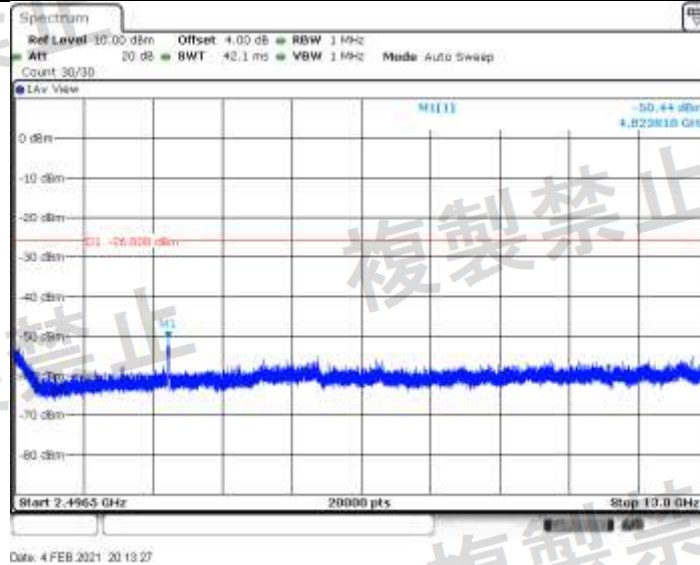
NTNV_11AX20MIMO_Ant1_2412_2387~2400



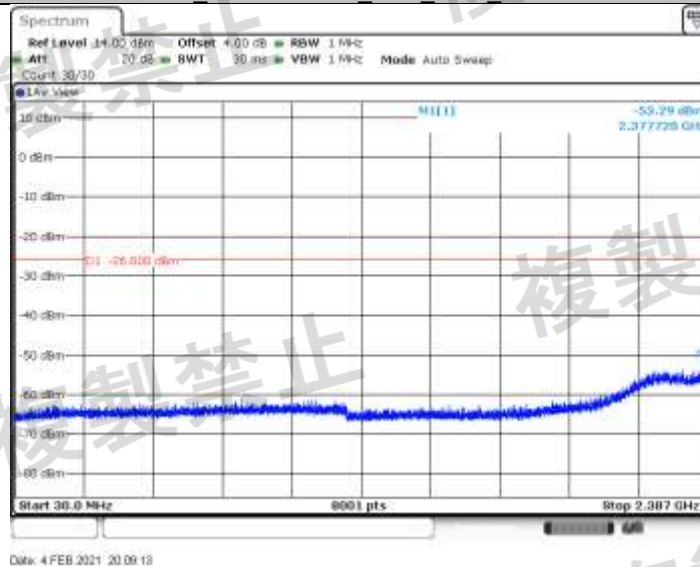
NTNV_11AX20MIMO_Ant1_2412_2483.5~2496.5



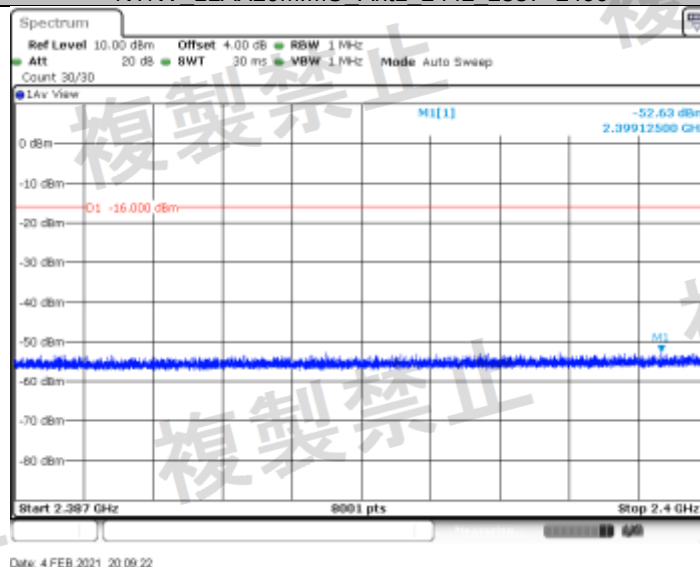
NTNV_11AX20MIMO_Ant1_2412_2496.5~13000



NTNV_11AX20MIMO_Ant1_2442_30~2387

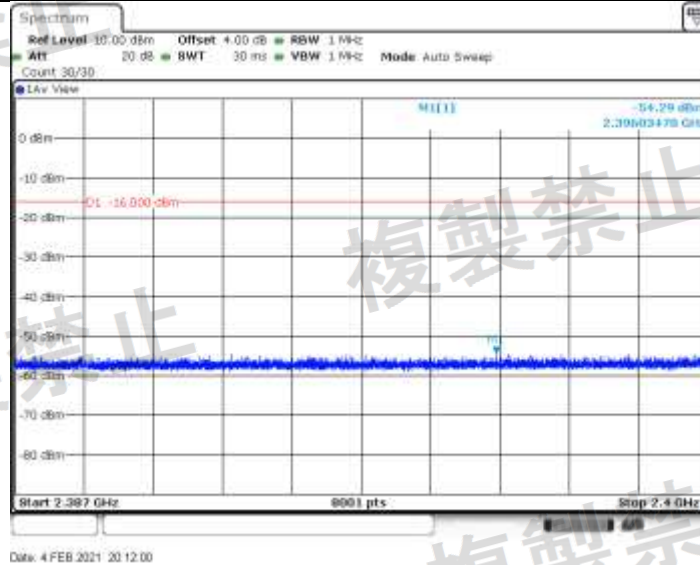


NTNV_11AX20MIMO_Ant1_2442_2387~2400

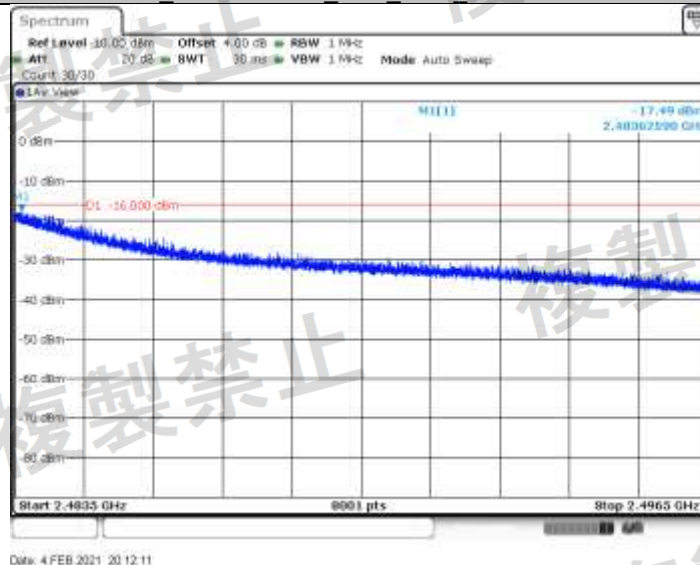




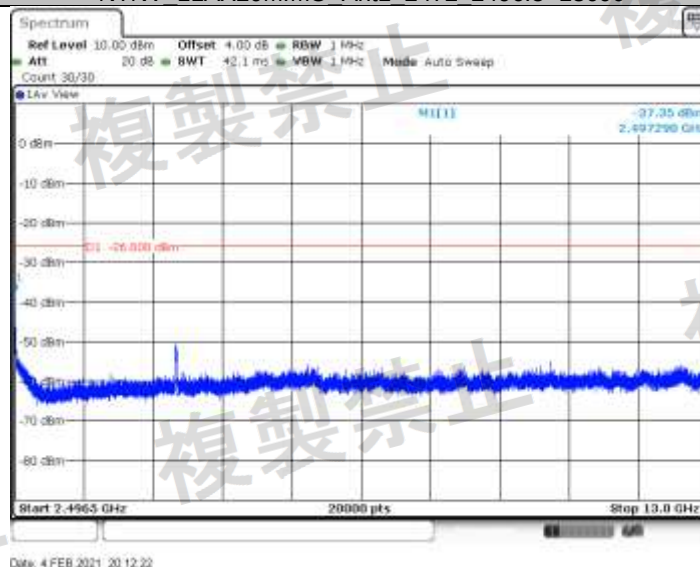
NTNV_11AX20MIMO_Ant1_2472_2387~2400



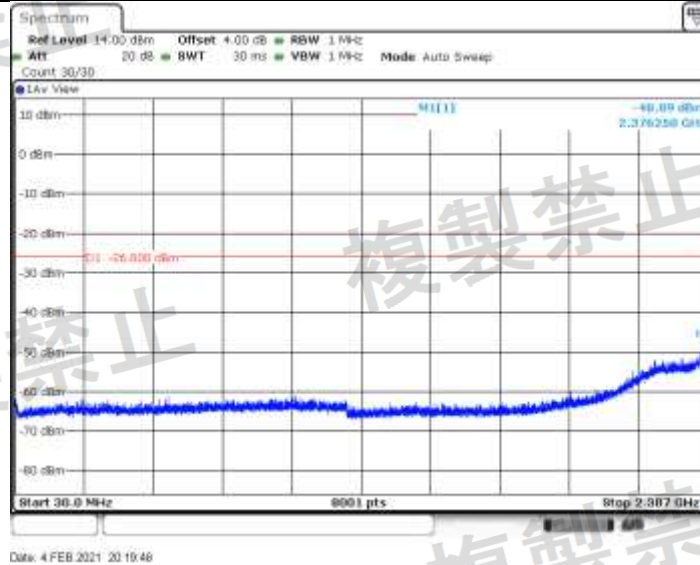
NTNV_11AX20MIMO_Ant1_2472_2483.5~2496.5



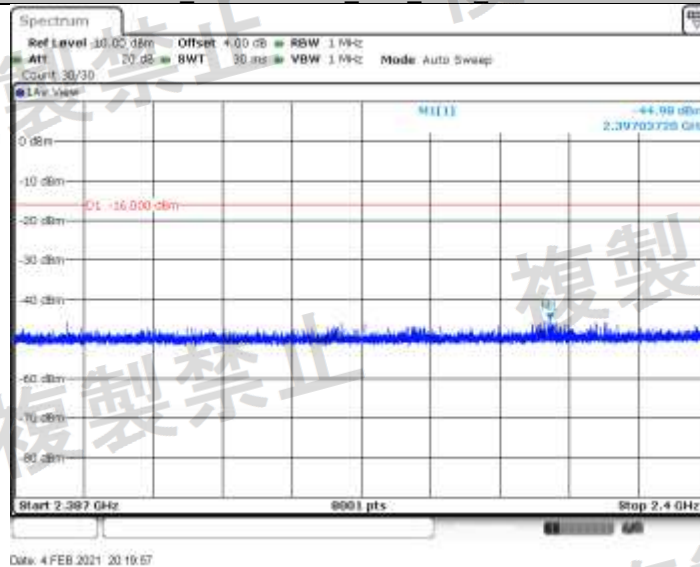
NTNV_11AX20MIMO_Ant1_2472_2496.5~13000



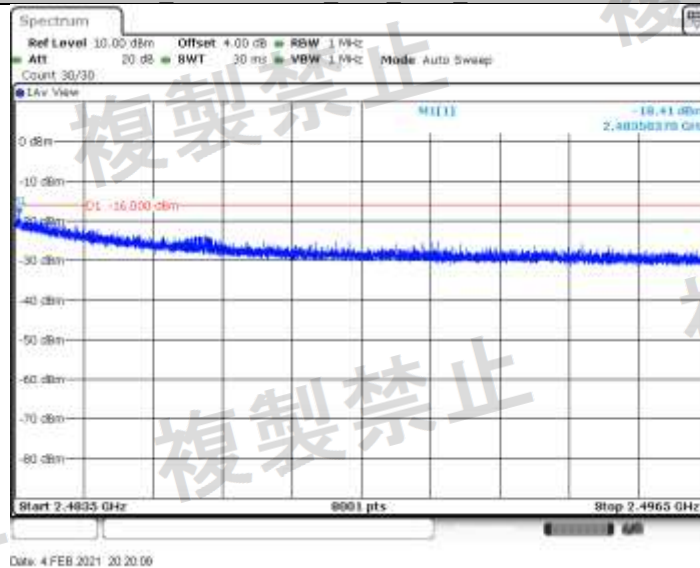
NTNV_11AX40MIMO_Ant1_2422_30~2387



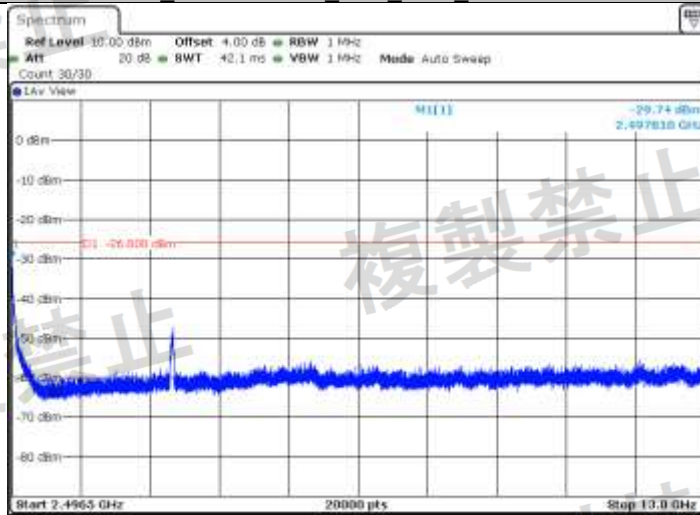
NTNV_11AX40MIMO_Ant1_2422_2387~2400



NTNV_11AX40MIMO_Ant1_2422_2483.5~2496.5

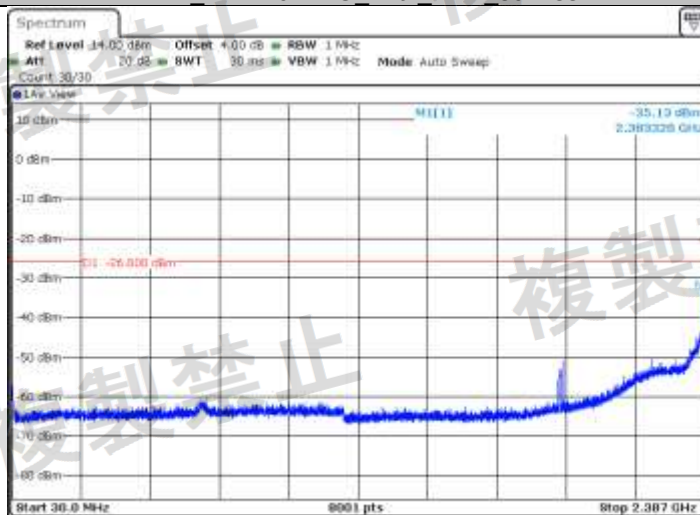


NTNV_11AX40MIMO_Ant1_2422_2496.5~13000



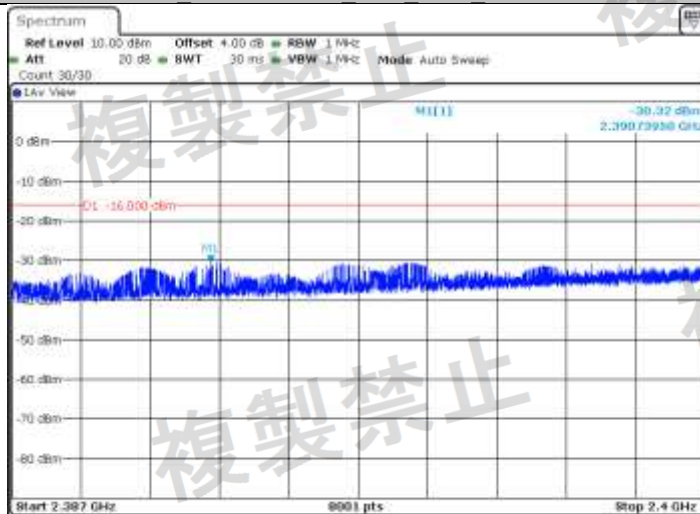
Date: 4 FEB 2021 20:20:19

NTNV_11AX40MIMO_Ant1_2442_30~2387



Date: 4 FEB 2021 20:18:25

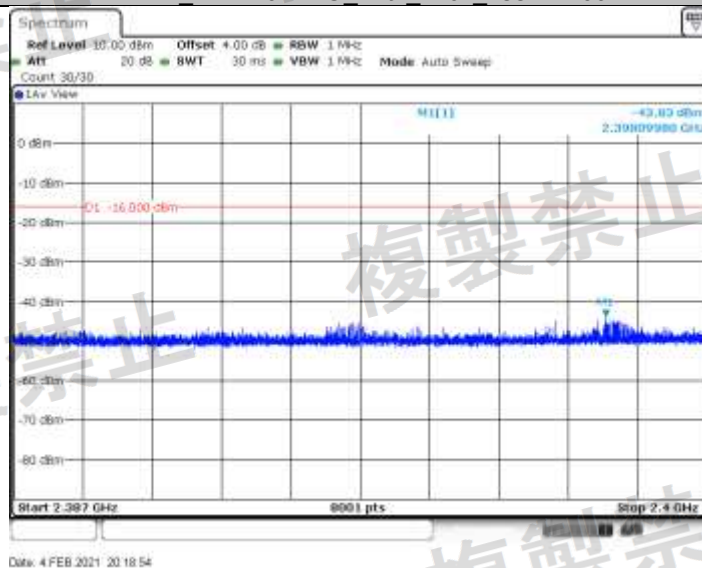
NTNV_11AX40MIMO_Ant1_2442_2387~2400



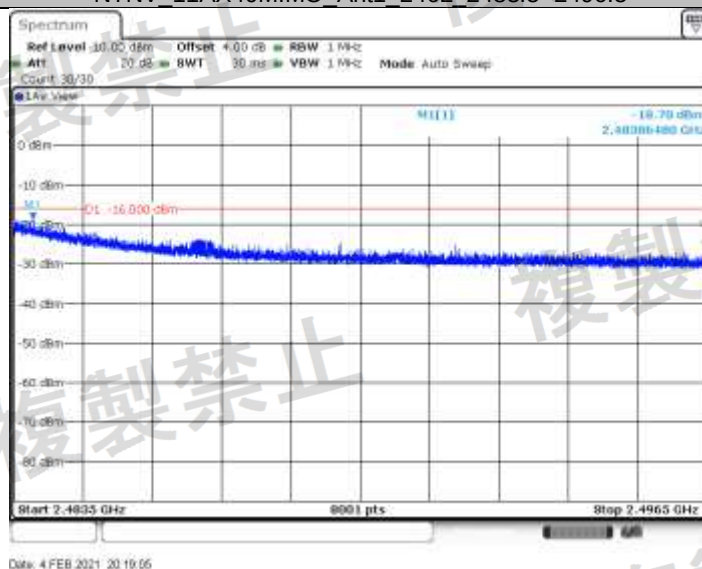
Date: 4 FEB 2021 20:18:55



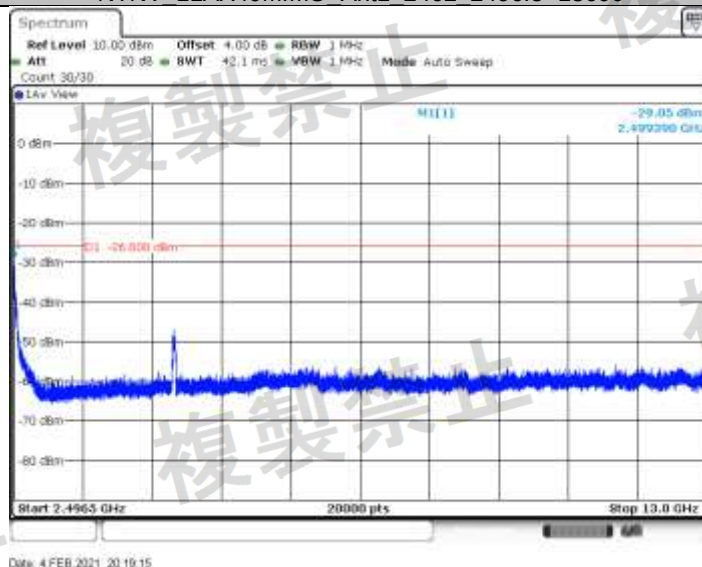
NTNV_11AX40MIMO_Ant1_2462_2387~2400



NTNV_11AX40MIMO_Ant1_2462_2483.5~2496.5



NTNV_11AX40MIMO_Ant1_2462_2496.5~13000



3.8 Secondary Radiated Emissions (Conducted) (For receiver)

3.8.1 Test condition

Test position:	Transmitting
Ambient temperature:	23.1°C
Relative humidity:	51.3%
Atmosphere Pressure:	101.8KPa

3.8.2 Limit (ARIB STD-T66, Clause 3.5 (1))

The limit on secondary emissions radiated from the receiving equipment within which the function of other radio equipment will not be impaired shall be, in terms of the power of a dummy antenna circuit that has the same electrical constant as the receiving antenna, 4 nW or less at a frequency below 1 GHz and 20 nW or less at a frequency of 1 GHz or higher as measured using the circuit.

3.8.3 Test Result

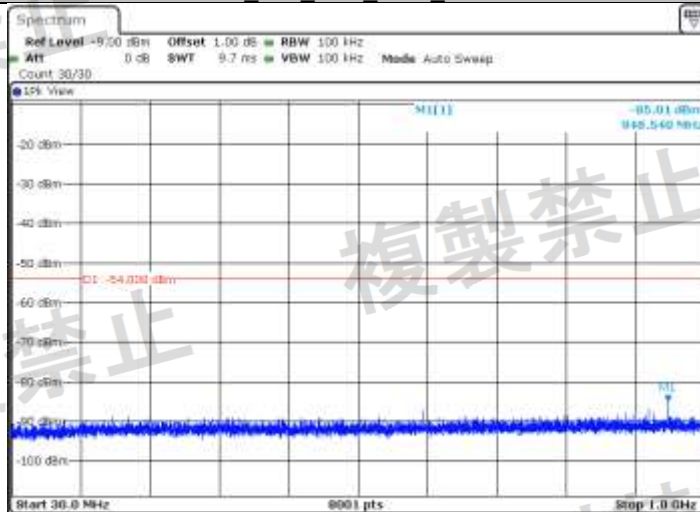
TestCondition	TestMode	Channel	Freq.Range	Result	Limit	Verdict
NTNV	11B	2412	30~1000	-85.01	<=-54	PASS
			1000~13000	-73.94	<=-47	PASS
		2442	30~1000	-85.32	<=-54	PASS
			1000~13000	-74.07	<=-47	PASS
		2472	30~1000	-85.03	<=-54	PASS
			1000~13000	-74.74	<=-47	PASS
	11G	2412	30~1000	-85.8	<=-54	PASS
			1000~13000	-69.81	<=-47	PASS
		2442	30~1000	-85.91	<=-54	PASS
			1000~13000	-71.11	<=-47	PASS
		2472	30~1000	-87.45	<=-54	PASS
			1000~13000	-72.06	<=-47	PASS

TestCondition	TestMode	Channel	Freq.Range	Result	Limit	Verdict
NTNV	11N20	2412	30~1000	-87.71	<=-54	PASS
			1000~13000	-72.9	<=-47	PASS
		2442	30~1000	-88.26	<=-54	PASS
			1000~13000	-71.86	<=-47	PASS
		2472	30~1000	-88.07	<=-54	PASS
			1000~13000	-62.21	<=-47	PASS
	11N40	2422	30~1000	-87.56	<=-54	PASS
			1000~13000	-74.43	<=-47	PASS
		2442	30~1000	-87.77	<=-54	PASS
			1000~13000	-64.62	<=-47	PASS
		2462	30~1000	-87.43	<=-54	PASS
			1000~13000	-74.91	<=-47	PASS

TestCondition	TestMode	Channel	Freq.Range	Result	Limit	Verdict
NTNV	11AX20	2412	30~1000	-87.92	<=-54	PASS
			1000~13000	-74.44	<=-47	PASS
		2442	30~1000	-87.5	<=-54	PASS
			1000~13000	-74.17	<=-47	PASS
		2472	30~1000	-87.33	<=-54	PASS
			1000~13000	-64.87	<=-47	PASS
	11AX40	2422	30~1000	-87.52	<=-54	PASS
			1000~13000	-74.3	<=-47	PASS
		2442	30~1000	-87.17	<=-54	PASS
			1000~13000	-74.27	<=-47	PASS
		2462	30~1000	-87.52	<=-54	PASS
			1000~13000	-69.01	<=-47	PASS

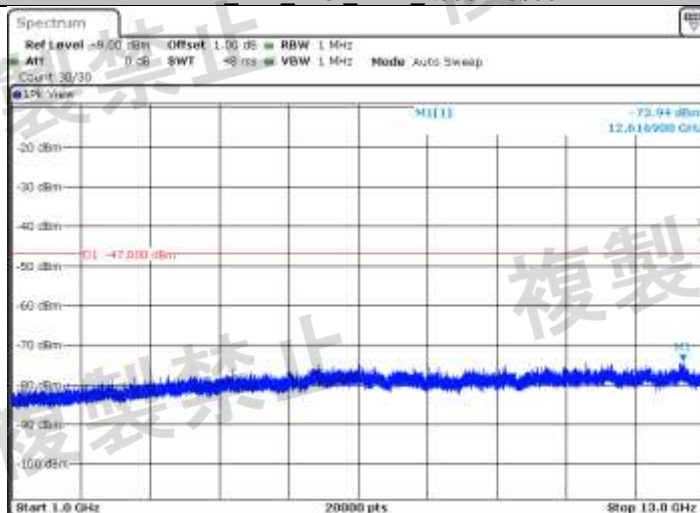
Note: we test all antenna ports for 802.11b/g respectively and only WORSE case (Ant 1) recorded in this report.

NTNV_11B_Ant1_2412_30~1000



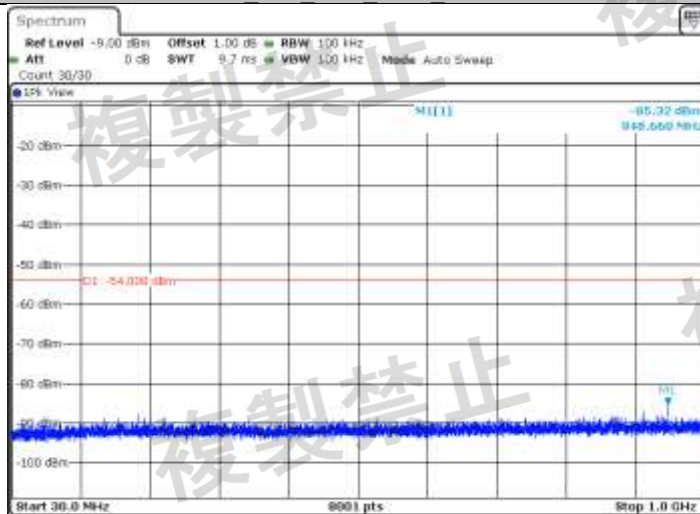
Date: 6 FEB 2021 20:21:15

NTNV_11B_Ant1_2412_1000~13000



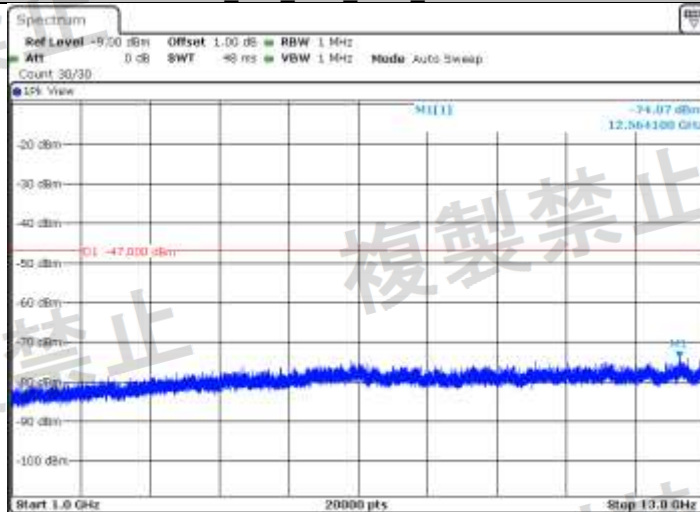
Date: 6 FEB 2021 20:21:26

NTNV_11B_Ant1_2442_30~1000



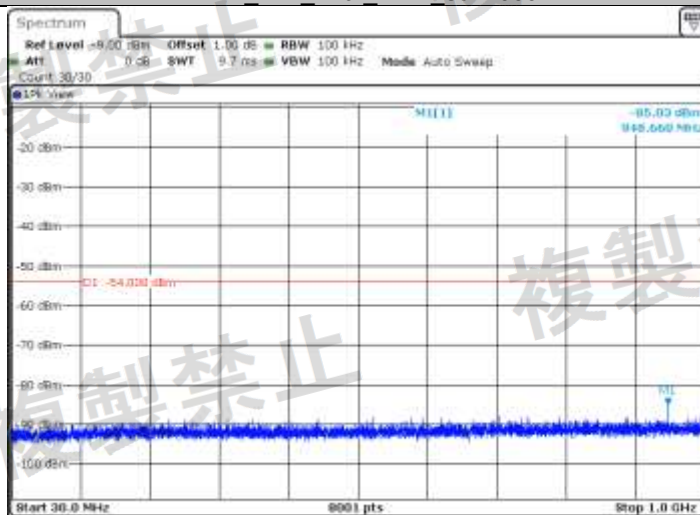
Date: 6 FEB 2021 20:21:37

NTNV_11B_Ant1_2442_1000~13000



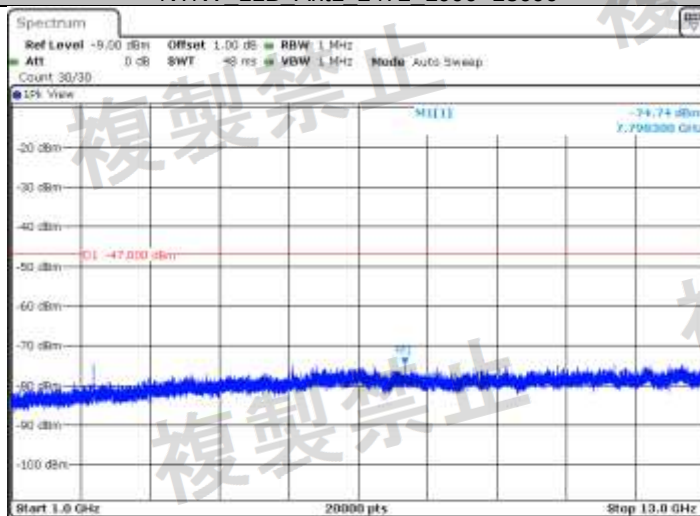
Date: 6 FEB 2021 20:21:47

NTNV_11B_Ant1_2472_30~1000



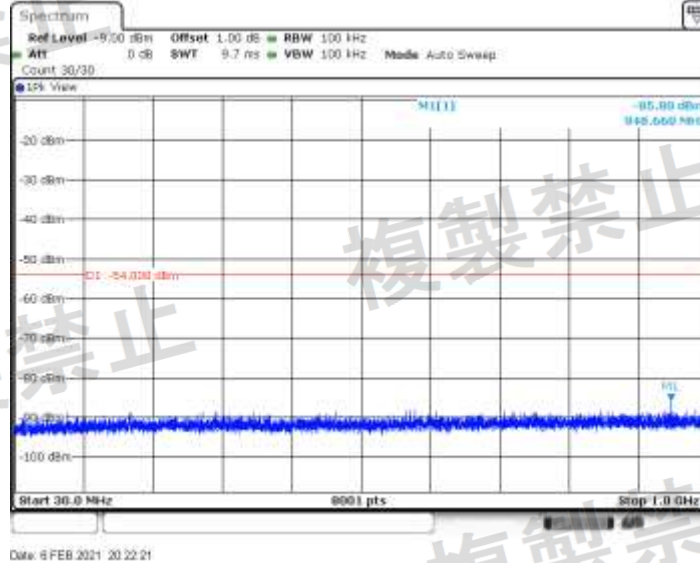
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NTNV_11B_Ant1_2472_1000~13000

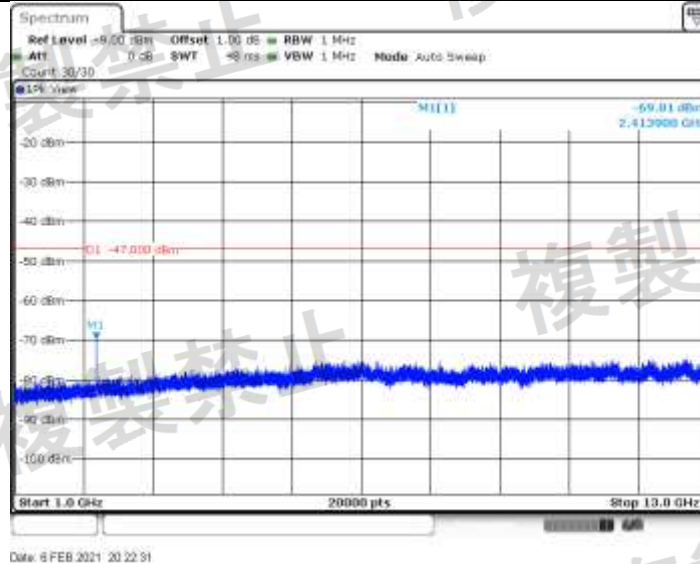


Date: 6 FEB 2021 20:22:06

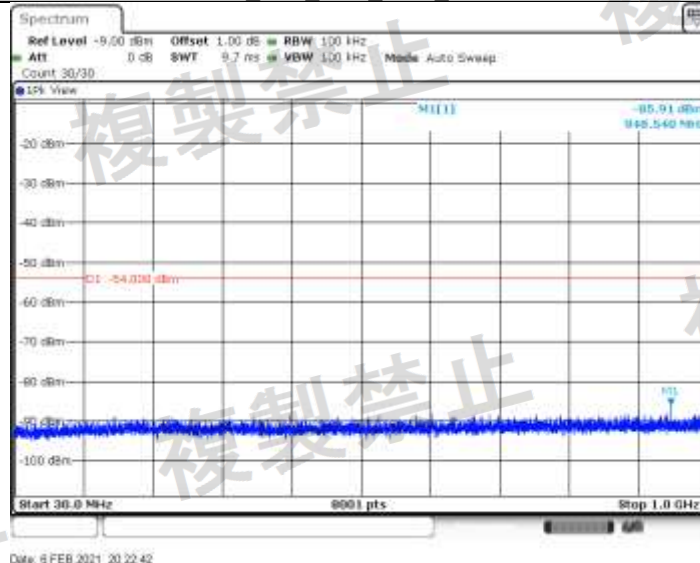
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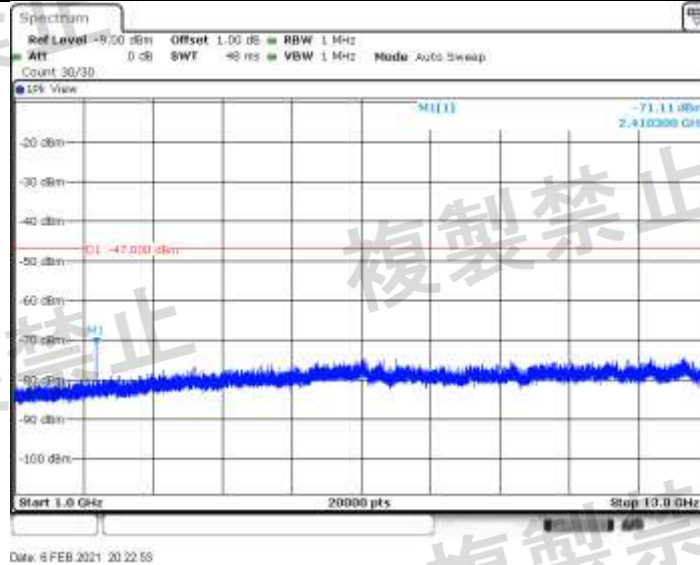
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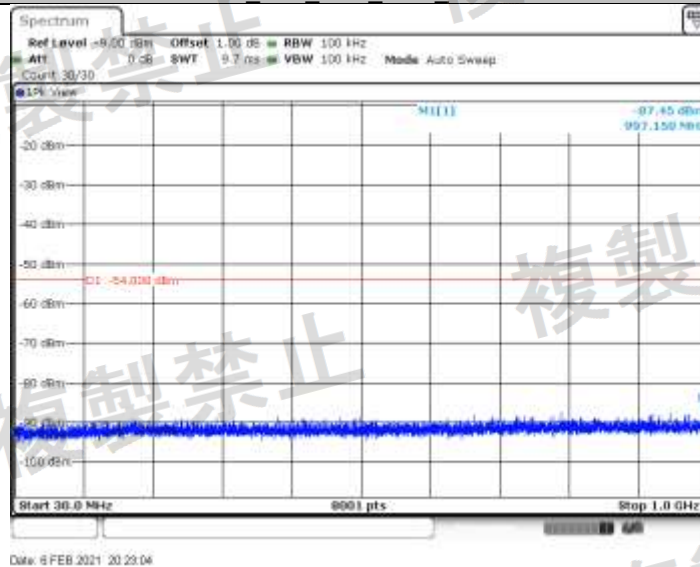
NTNV_11G_Ant1_2442_30~1000



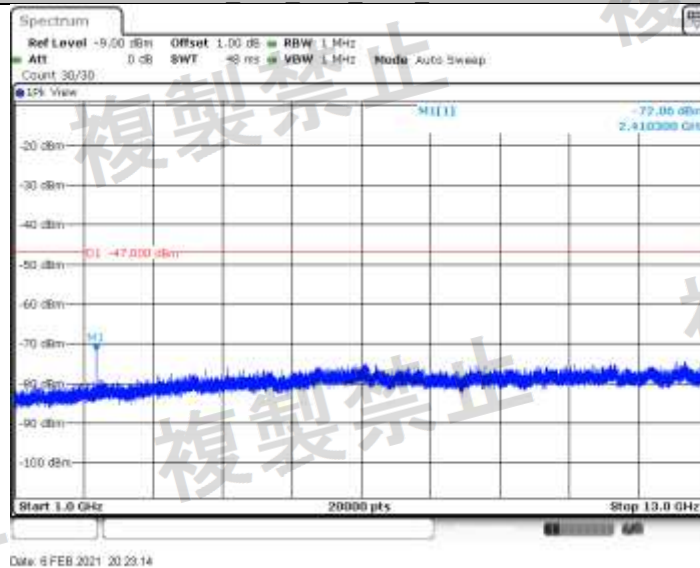
NTNV 11G Ant1 2442 1000~13000



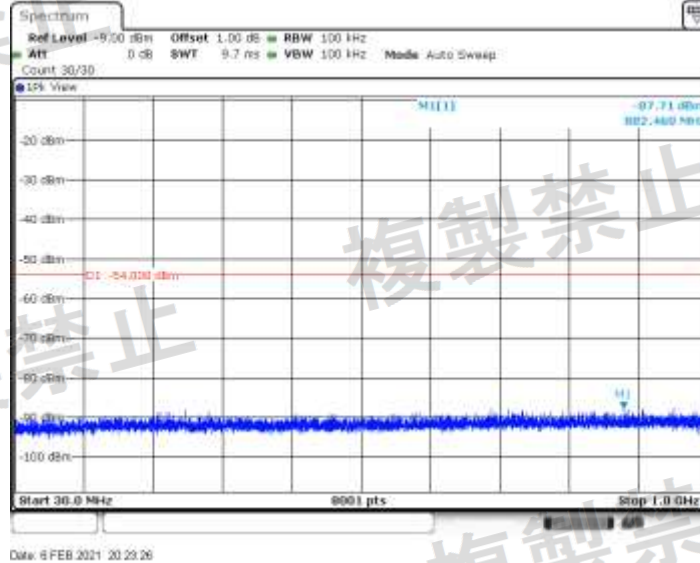
NTNV 11G Ant1 2472 30~1000



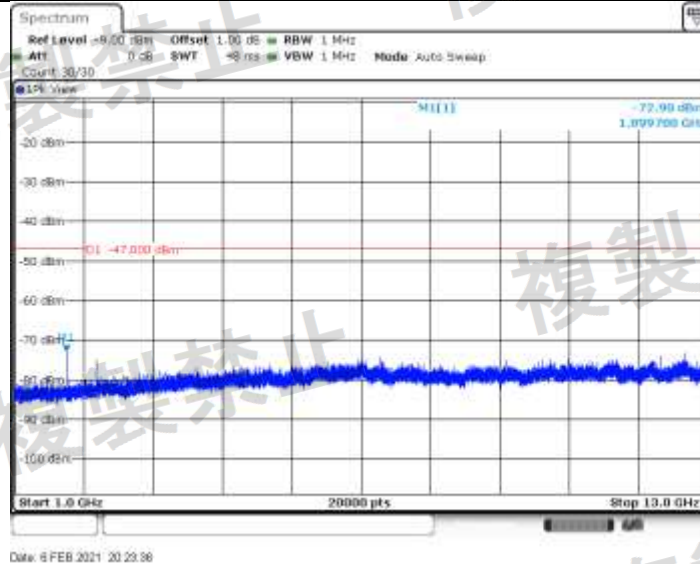
NTNV 11G Ant1 2472 1000~13000



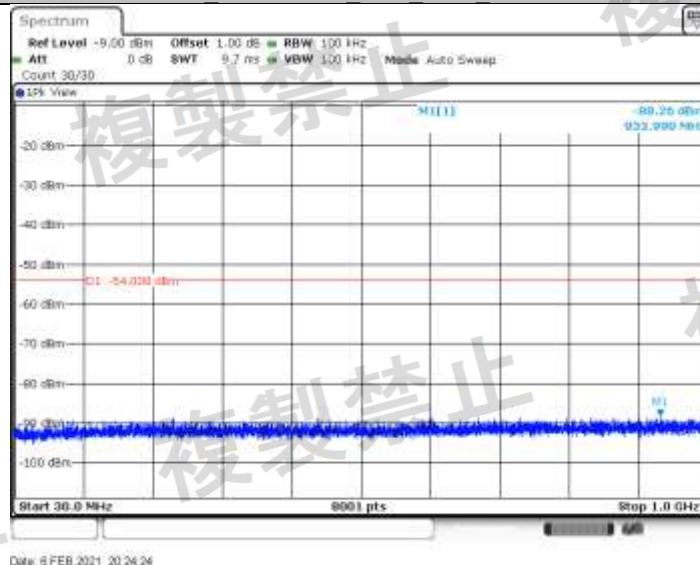
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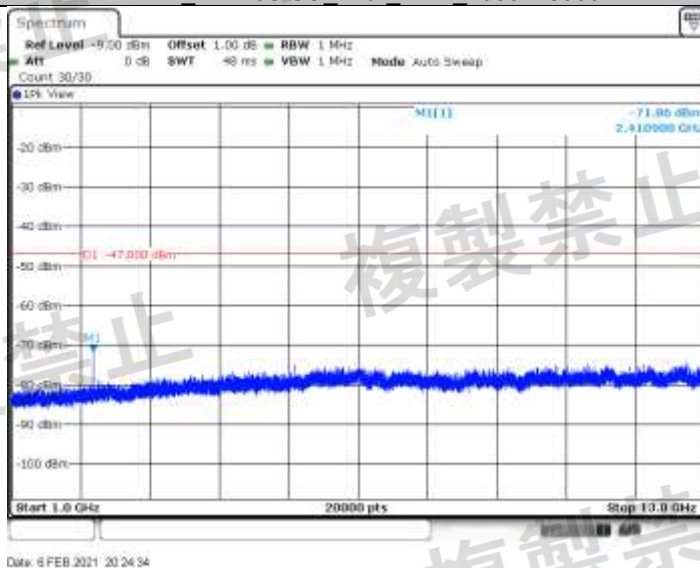
NTNV_11N20SISO_Ant1_2412_1000~13000



NTNV_11N20SISO_Ant1_2442_30~1000

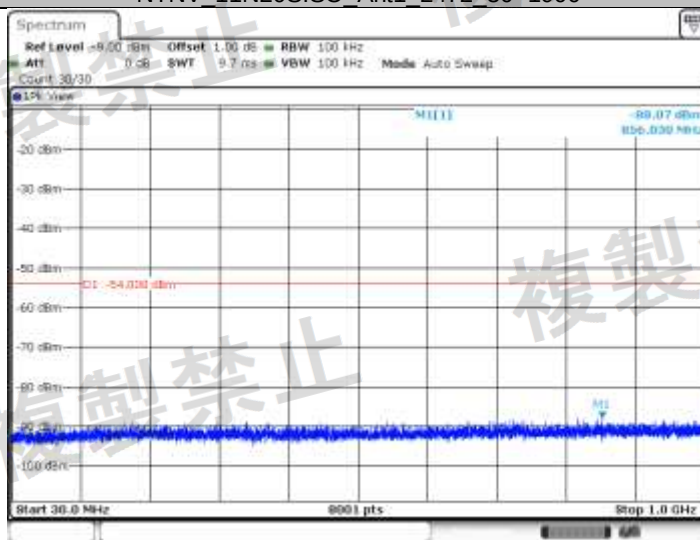


NTNV_11N20SISO_Ant1_2442_1000~13000



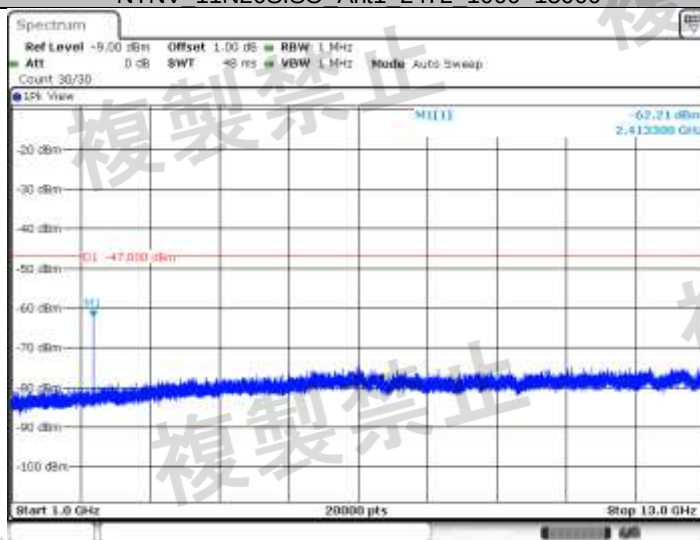
Date: 6 FEB 2021 20:24:34

NTNV_11N20SISO_Ant1_2472_30~1000



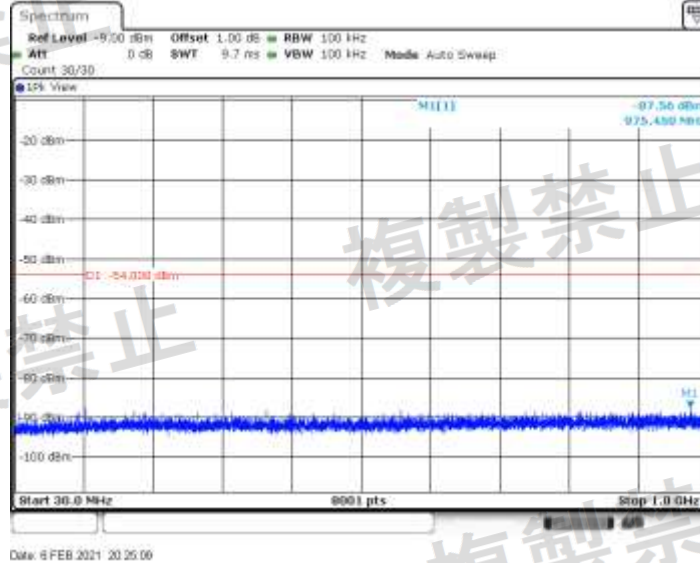
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NTNV_11N20SISO_Ant1_2472_1000~13000

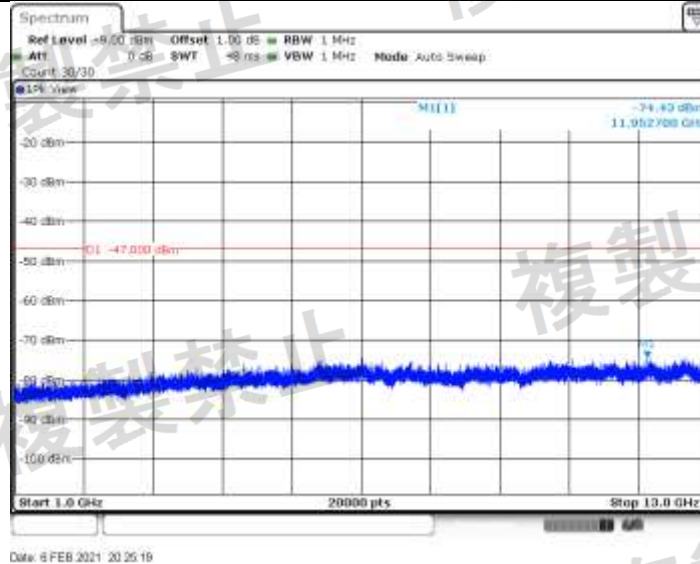


Date: 6 FEB 2021 20:24:56

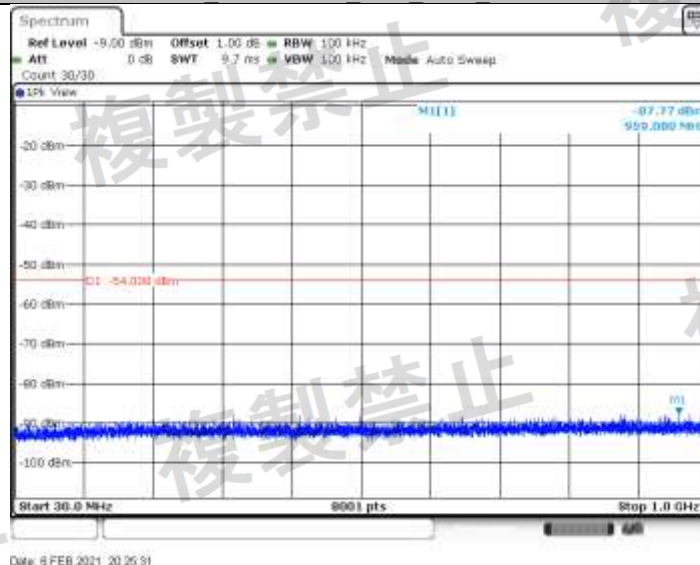
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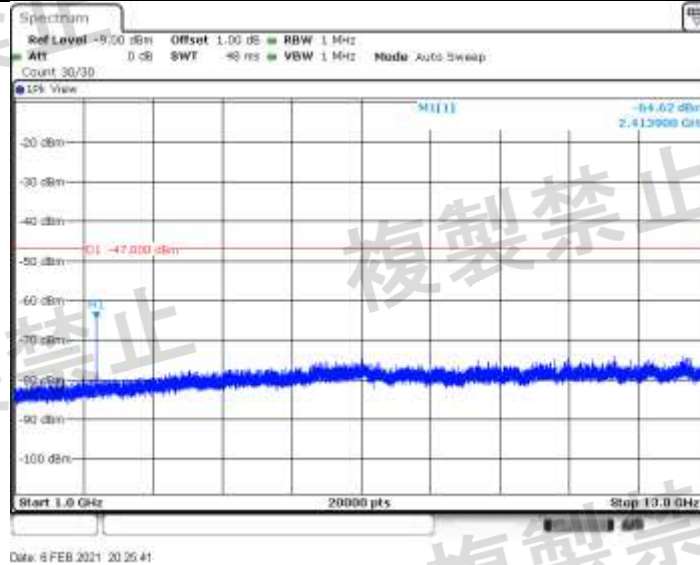
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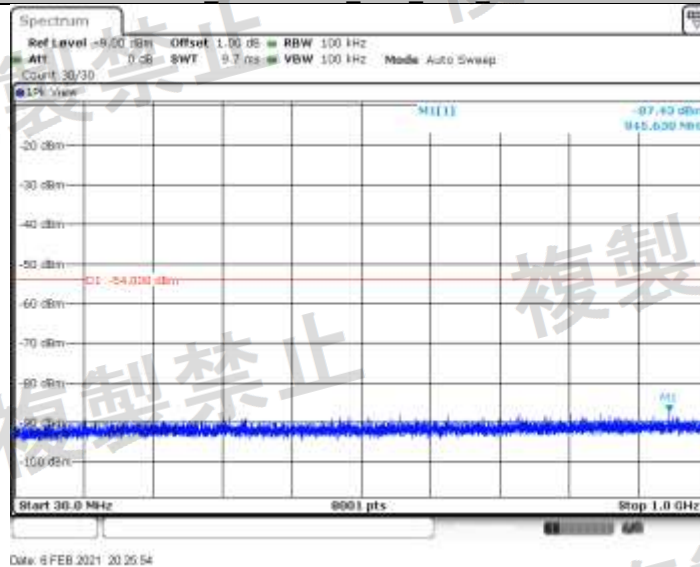
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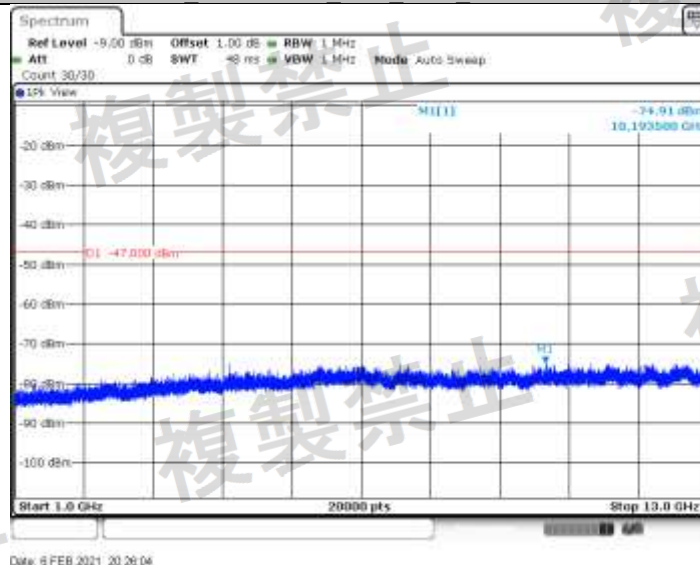
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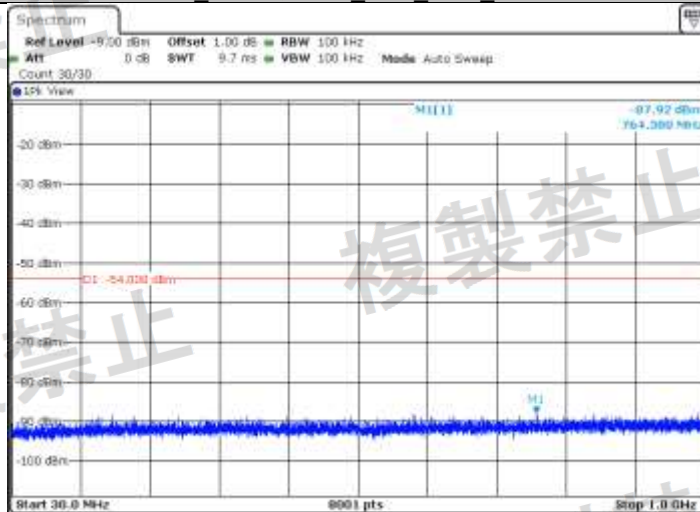
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NTNV_11N40SISO_Ant1_2462_1000~13000

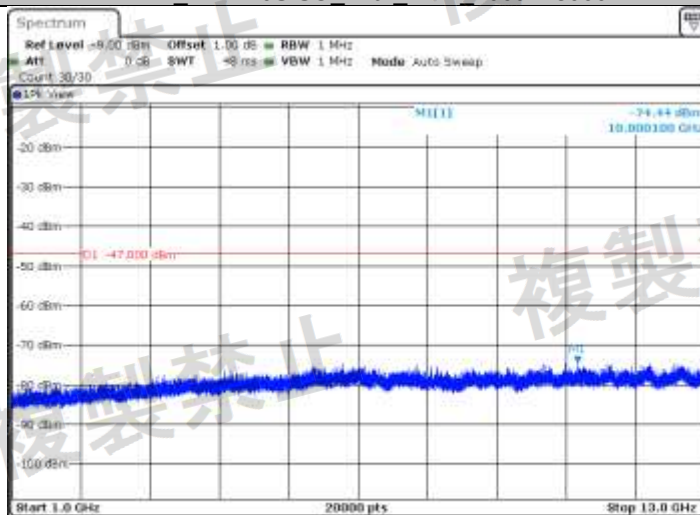


NTNV_11AX20SISO_Ant1_2412_30~1000



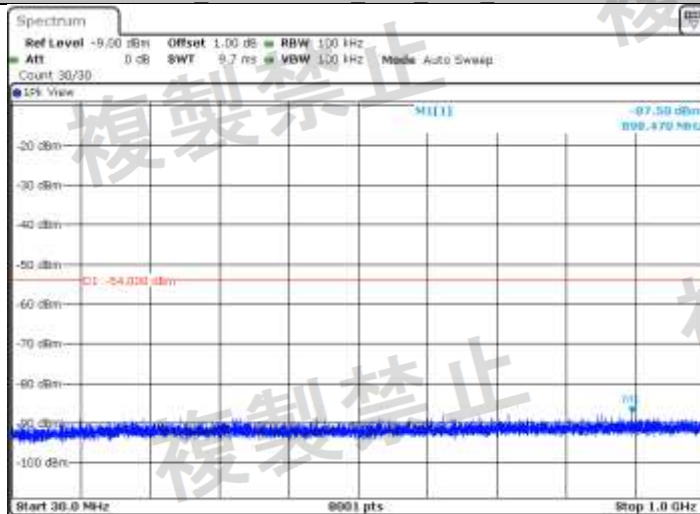
Date: 6 FEB 2021 20:26:17

NTNV_11AX20SISO_Ant1_2412_1000~13000



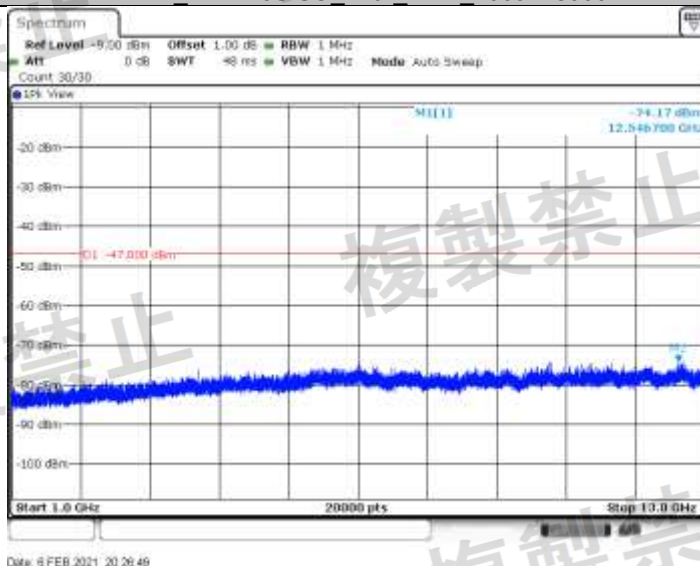
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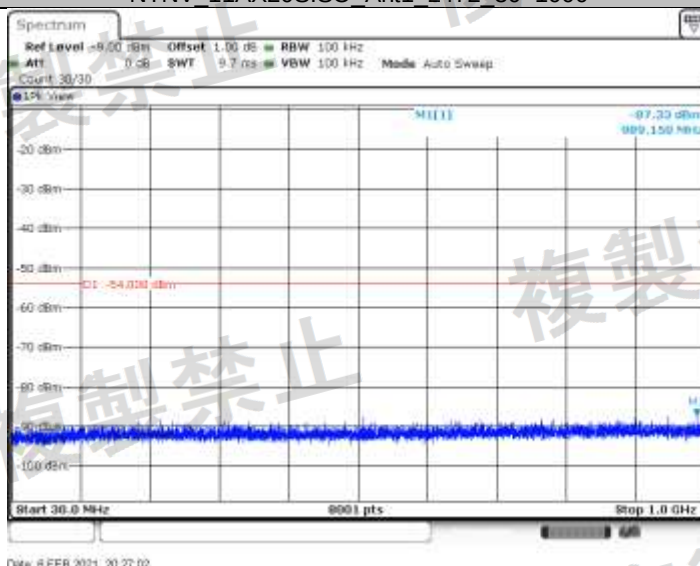


Date: 6 FEB 2021 20:26:39

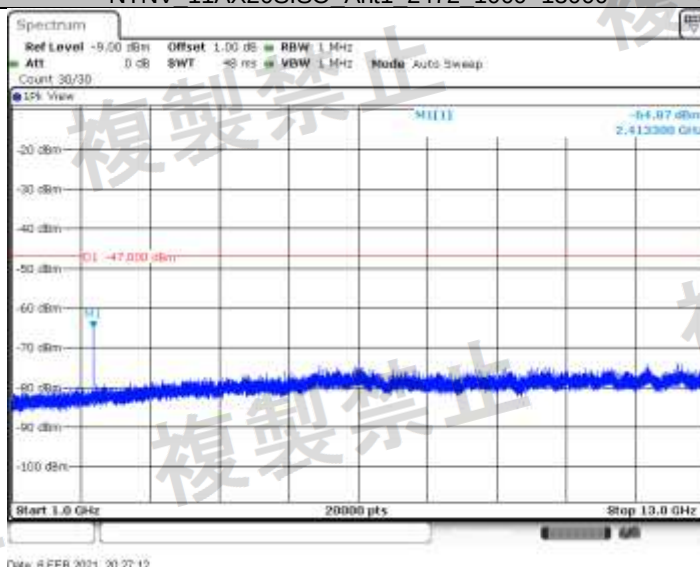
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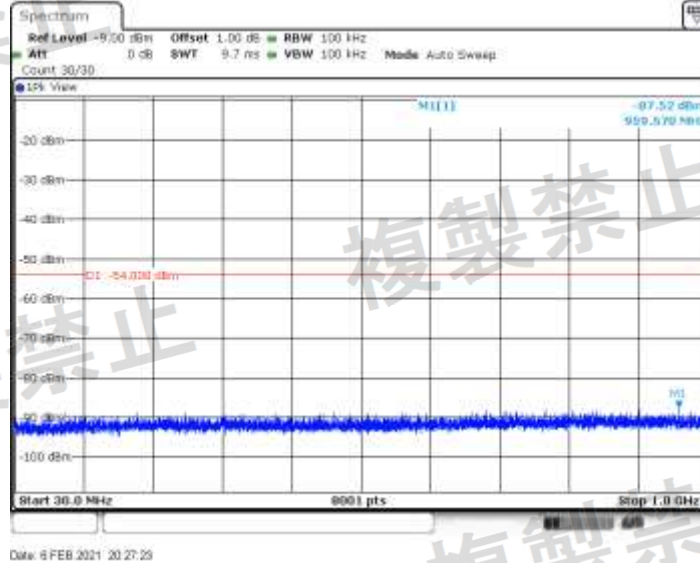
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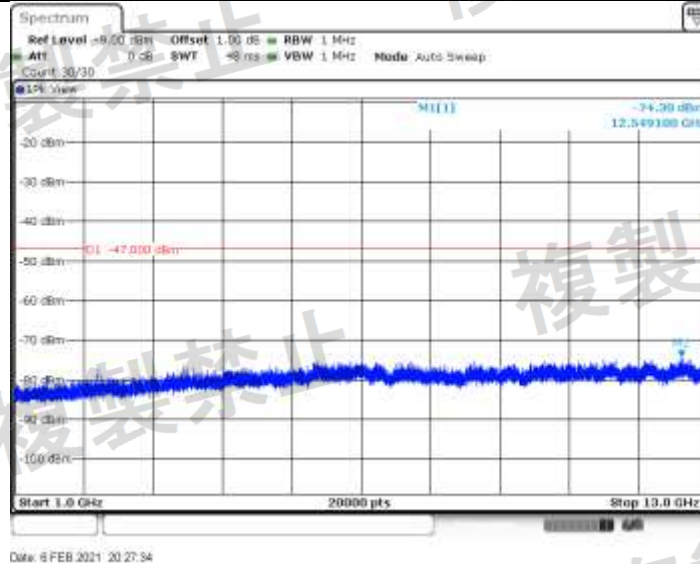
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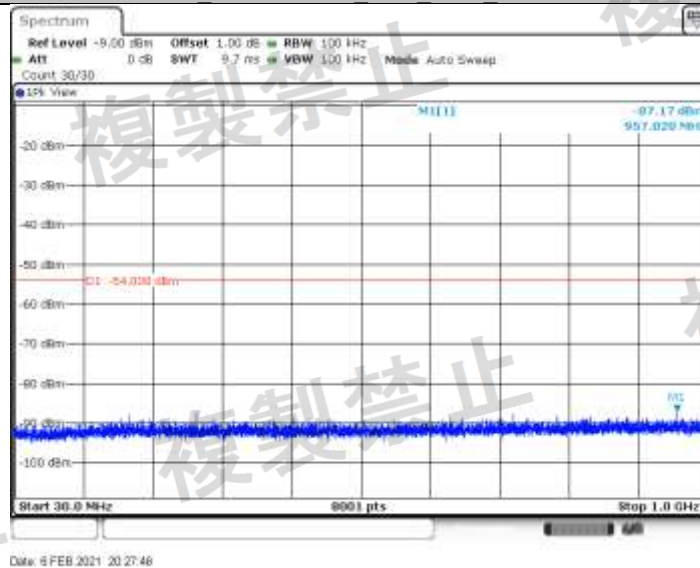
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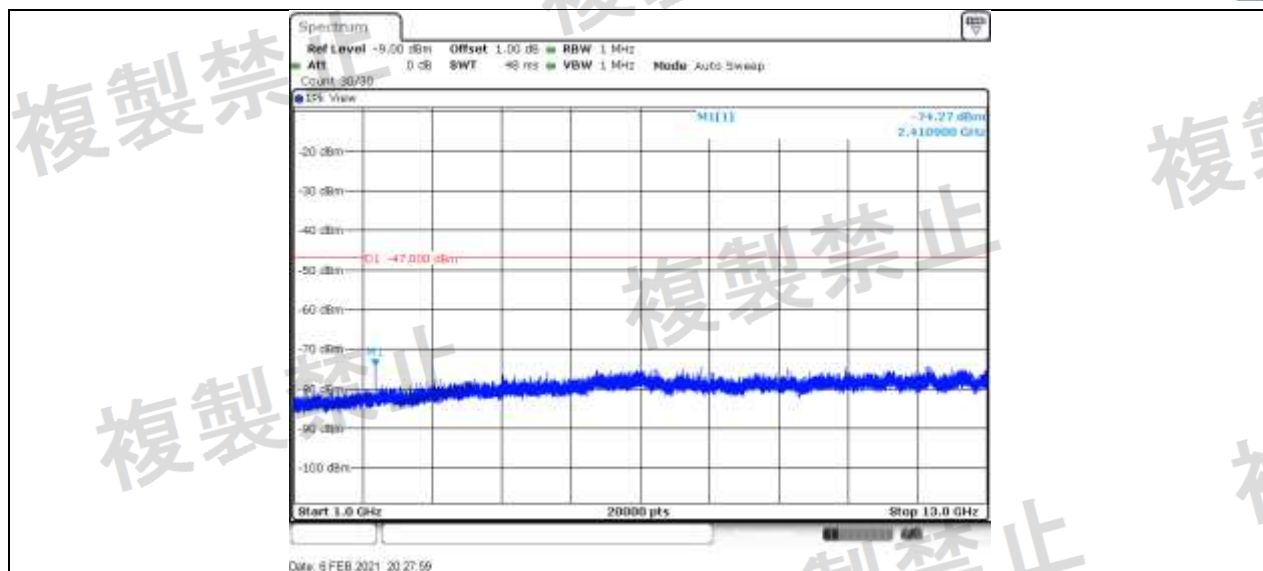
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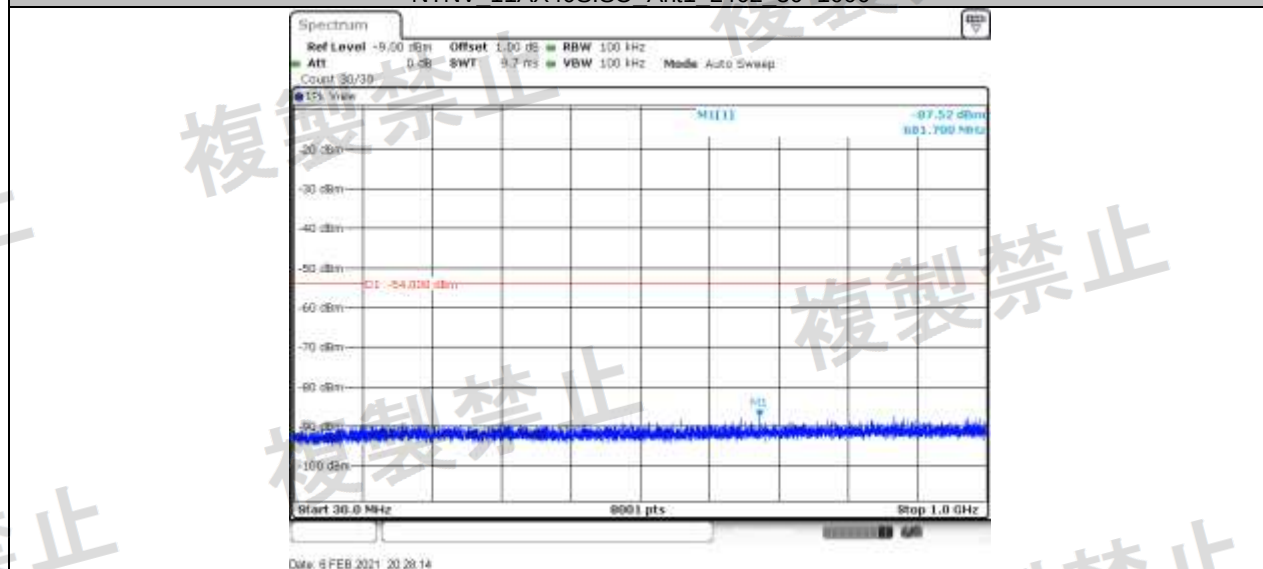
NTNV_11AX40SISO_Ant1_2442_30~1000



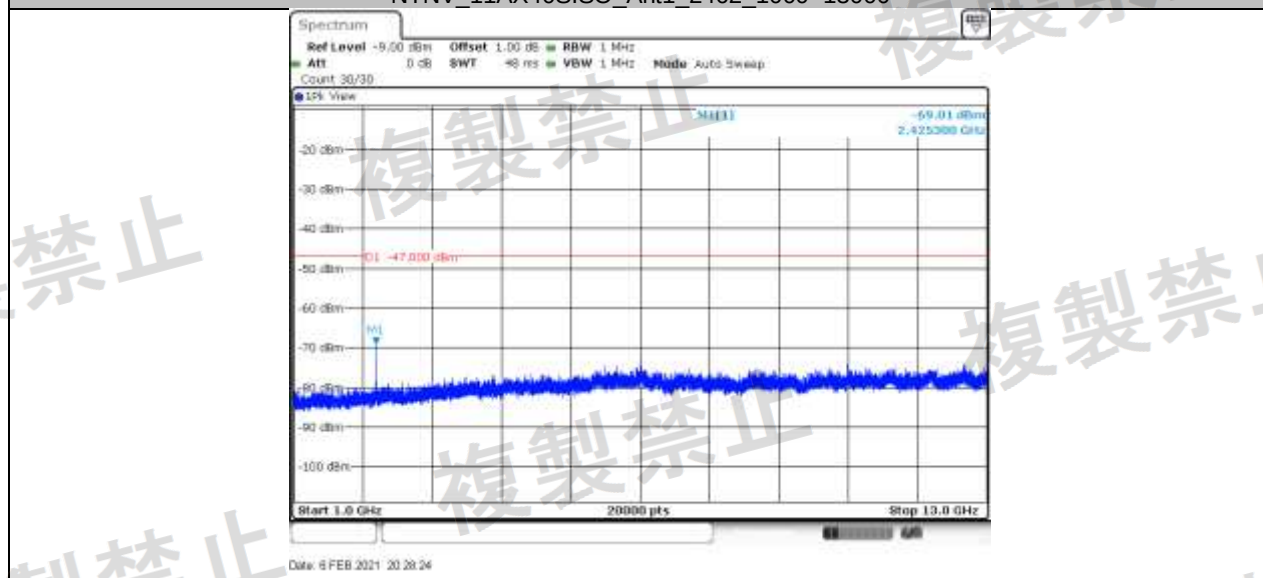
NTNV_11AX40SISO_Ant1_2442_1000~13000



NTNV_11AX40SISO_Ant1_2462_30~1000



NTNV_11AX40SISO_Ant1_2462_1000~13000



3.8.4 Result

The equipment met the requirement of this clause.

3.9 Interference prevention function

3.9.1 Test condition

Test position:	Transmitting
Ambient temperature:	22.5 °C
Relative humidity:	51.4 %
Atmosphere Pressure:	101.6 KPa

3.9.2 Limit

Item	Limits
Identification Code	≥48 bits

Measured Result:

Test Conditions	Operation Frequency				
	2412 MHz	2422 MHz	2442 MHz	2462 MHz	2472 MHz
Normal Voltage (48VDC)	48	48	48	48	48

3.9.3 Result

The equipment met the requirement of this clause.

4 Photographs of Test Set-ups

