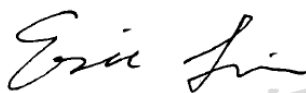


TEST REPORT

Application No.: KSCR2212002440AT
Applicant: Hangzhou Hikvision Digital Technology Co., Ltd
Address of Applicant: No.555 Qianmo Road, Binjiang District, Hangzhou 310052, China
Manufacturer: Hangzhou Hikvision Digital Technology Co., Ltd
Address of Manufacturer: No.555 Qianmo Road, Binjiang District, Hangzhou 310052, China
Factory:
1. Hangzhou Hikvision Technology Co., Ltd.
2. Hangzhou Hikvision Electronics Co., Ltd.
3. Chongqing Hikvision technology Co., Ltd.
Address of Factory:
1. No.700, Dongliu Road, Binjiang District, Hangzhou City, Zhejiang, 310052, China.
2. No.299, Qiushi Road, Tonglu Economic Development Zone, Tonglu County, Hangzhou, Zhejiang, 311500, China.
3. No. 118, Haikang Road, Area C, Jianqiao Industrial Park, Dadukou District, Chongqing, 401325, China.
Equipment Under Test (EUT):
EUT Name: NETWORK CAMERA
Model No.: DS-2CV1043G2-LIDW; IPC-B140HA-LD/W; HWI-B140HA-LD/W ♣
♣ Please refer to section 2 of this report which indicates which model was actually tested and which were electrically identical.
Standard(s) : MIC Item 19 of Article 2 Paragraph 1
Date of Receipt: 2022-12-08
Date of Test: 2022-12-27 to 2022-12-27
Date of Issue: 2023-01-03

Test Result:**Pass***

* In the configuration tested, the EUT complied with the standards specified above.



Eric Lin
Laboratory Manager



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Revision Record

Version	Description	Date	Remark
00	Original	2023-01-03	/

Authorized for issue by:

Damon Zhou

Damon Zhou/Project Engineer

Eric Lin

Eric Lin /Reviewer

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2 Test Summary

Radio Spectrum Technical Requirement				
Item	Standard	Method	Requirement	Result
Antenna Requirement	MIC Item 19 of Article 2 Paragraph 1	N/A	MIC Item 19 of Article 2 Paragraph 1	
Interference prevention capability		MIC Notice No.88 Appendix No.43	MIC Item 19 of Article 2 Paragraph 1	Pass
RF accessibility		N/A	MIC Item 19 of Article 2 Paragraph 1	Pass

Radio Spectrum Matter Part				
Item	Standard	Method	Requirement	Result
Frequency Error	MIC Item 19 of Article 2 Paragraph 1	MIC Notice No.88 Appendix No.43	MIC Item 19 of Article 2 Paragraph 1	Pass
Occupied Bandwidth(99%)		MIC Notice No.88 Appendix No.43	MIC Item 19 of Article 2 Paragraph 1	Pass
Spread spectrum Bandwidth(90%)		MIC Notice No.88 Appendix No.43	MIC Item 19 of Article 2 Paragraph 1	Pass
Antenna Power		MIC Notice No.88 Appendix No.43	MIC Item 19 of Article 2 Paragraph 1	Pass
Spurious emission Intensity		MIC Notice No.88 Appendix No.43	MIC Item 19 of Article 2 Paragraph 1	Pass
Limit of secondary radiated emissions		MIC Notice No.88 Appendix No.43	MIC Item 19 of Article 2 Paragraph 1	Pass

Declaration of EUT Family Grouping:

There are series models mentioned in this report, and they are the identical in electrical and electronic characters. Only the model DS-2CV1043G2-LIDW was tested since their differences are the model number.

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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221200244001

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4 General Information

4.1 Details of E.U.T.

Power supply:	DC 12V
Operation Frequency:	802.11b/g/n(HT20): 2412MHz to 2472MHz, 802.11n(HT40): 2422MHz to 2462MHz
Modulation Type:	802.11b: DSSS (CCK, DQPSK, DBPSK), 802.11g/n: OFDM (64QAM, 16QAM, QPSK, BPSK)
Channel Spacing:	5MHz
Number of Channels:	802.11b/g/n(HT20): 13, 802.11n(HT40):9
Antenna Type:	Dipole Antenna
Antenna Gain:	Ant 1:2.15dBi (Provided by the manufacturer) Ant 2:2.15dBi (Provided by the manufacturer)

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Notebook	Lenovo	/	/
AC Adapter	DVE	/	/

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4.3 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Radio Frequency	8.4×10^{-8}
2	Timeout	2s
3	Duty Cycle	0.37%
4	Occupied Bandwidth	3%
5	RF Conducted Power	0.6dB
6	RF Power Density	2.9dB
7	Conducted Spurious Emissions	0.75dB
8	RF Radiated Power	5.2dB (Below 1GHz)
		5.9dB (Above 1GHz)
9	Radiated Spurious Emission Test	4.2dB (Below 30MHz)
		4.5dB (30MHz-1GHz)
		5.1dB (1GHz-18GHz)
		5.4dB (Above 18GHz)
10	Temperature Test	1°C
11	Humidity Test	3%
12	Supply Voltages	1.5%
13	Time	3%

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



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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221200244001

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4.4 Test Location

All tests were performed at:

Compliance Certification Services (Kunshan) Inc.

No.10 Weiye Rd, Innovation park, Eco&Tec, Development Zone, Kunshan City, Jiangsu, China.

Tel: +86 512 5735 5888 Fax: +86 512 5737 0818

No tests were sub-contracted.

Note:

1. SGS is not responsible for wrong test results due to incorrect information (e.g., max. internal working frequency, antenna gain, cable loss, etc) is provided by the applicant. (If applicable).
2. SGS is not responsible for the authenticity, integrity and the validity of the conclusion based on results of the data provided by applicant. (If applicable).

4.5 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

- **A2LA**

Compliance Certification Services (Kunshan) Inc. is accredited by the American Association for Laboratory Accreditation (A2LA). Certificate No. 2541.01.

- **FCC**

Compliance Certification Services (Kunshan) Inc. has been recognized as an accredited testing laboratory. Designation Number: CN1172.

- **ISED**

Compliance Certification Services (Kunshan) Inc. has been recognized by Innovation, Science and Economic Development Canada (ISED) as an accredited testing laboratory. Company Number: 2324E

- **VCCI**

The 3m and 10m Semi-anechoic chamber and Shielded Room of Compliance Certification Services (Kunshan) Inc. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-20134, R-11600, C-11707, T-11499, G-10216 respectively.

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None



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5 Equipment List

Item	Equipment	Manufacturer	Model	Inventory No	Cal Date	Cal.Due Date	Cal body	Certifier
RF Radiated Test								
1	Spectrum Analyzer	R&S	FSV40	KUS1806E003	08/22/2022	08/21/2023	JEPSI*	(c)
2	Universal Radio Communication Tester	R&S	CMW500	KSEM009-1	04/01/2022	03/31/2023	JEPSI*	(c)
3	Signal Generator	Agilent	E8257C	KS301066	08/22/2022	08/21/2023	JEPSI*	(c)
4	Loop Antenna	COM-POWER	AL-130R	KUS1806E001	04/13/2021	04/12/2023	JEPSI*	(c)
5	Bilog Antenna	TESEQ	CBL 6112D	KUS1806E005	06/29/2021	06/28/2023	JEPSI*	(c)
6	Bilog Antenna	SCHWARZBECK	VULB9160	CZ301016	04/13/2021	04/12/2024	JEPSI*	(c)
7	Horn-antenna(1-18GHz)	Schwarzbeck	BBHA9120D	KS301079	04/02/2022	04/01/2024	JEPSI*	(c)
8	Horn-antenna(1-18GHz)	ETS-LINDGREN	3117	KS301186	02/22/2021	02/21/2023	JEPSI*	(c)
9	Horn Antenna(18-40GHz)	Schwarzbeck	BBHA9170	CZ301058	03/17/2022	03/16/2023	JEPSI*	(c)
10	Amplifier(30MHz~18GHz)	PANSHAN TECHNOLOGY	LNA:1~18G	KSEM010-1	01/22/2022	01/21/2023	JEPSI*	(c)
11	Amplifier(18~40GHz)	COM-POWER	PAM-840A	KUS1710E001	01/22/2022	01/21/2023	JEPSI*	(c)
12	RE Test Cable	REBES MICROWAVE	/	CZ301097	11/12/2022	11/11/2023	JEPSI*	(c)
13	Temperature & Humidity Recorder	Renke Control	RS-WS-N01-6J	KSEM024-4	01/04/2022	31/03/2023	JEPSI*	(c)
14	Software	Faratronic	EZ EMC-v3A1	/	N/A	N/A	JEPSI*	(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

Notice: Calibration duration for above equipments is 1 year.



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6 Radio Spectrum Technical Requirement

6.1 Radio Technical Requirements Specification

Table 1: Radio Technical Requirements Specification for 2.4 GHz band wide-band low-power data communication system (Item 19 of Article 2-1)

Items	Technical standard
Assigned frequency or designated frequency	2400-2483.5MHz
Communication method	One-way communication, simplex, semi-duplex, or duplex operation of digital signal transmission including spread spectrum
Tolerance of frequency ($\times 10^{-6}$)	± 50
Tolerance of occupied bandwidth	FH: 83.5MHz or less FH + DS: 83.5MHz or less FH + OFDM: 83.5MHz or less OFDM: 40MHz or less Others: 26MHz or less
Antenna power	Designated value (1) FH, FH+DS, FH+OFDM: 3mW (used in the range of 2427 - 2470.75 MHz) (2) OFDM, DS other than (1) 10mW (3) Other than (1) & (2) 10mW (4) OFDM OBW 26 - 40MHz: 5mW ,Tolerance:+20%,-80%
Antenna gain	1) 12.14 dBi or less in principle 2) In case of directional antenna (1) FH, FH+DS or FH+OFDM using 2427-2470.75 MHz EIRP $\leq$ 16.91 dBm/MHz (2) OFDM or DS other than (1) EIRP $\leq$ 22.14 dBm/MHz (3) Other than (1) and (2): 22.14 dBm or less (4) OFDM OBW 26 - 40MHz: 19.14dBm/MHz (5) Half-power angle of directional antenna (e) in case of the item 2):e $\leq$ 360/A (The A is 10 in maximum.)
Tolerance of spurious emission intensity	(1) Below 2387 MHz: 2.5 μ W (2) 2387 to 2400 MHz: 25 μ W (3) 2483.5 through 2496.5 MHz: 25 μ W (4) Over 2496.5 MHz: 2.5 μ W
Spreading bandwidth	DS, FH, FH+DS, FH+OFDM: 500kHz or more
Spreading rate of spectrum	For DS system:(Spreading bandwidth) / (Frequency corresponding to transmission rate) $\geq$ 5
Limit of secondary radiated emissions	(1) Below 1 GHz: 4nW (2) 1 GHz or higher: 20nW
Interference prevention function	Shall have the function of automatic transmission and reception of identification sign.
Structure	Shall be of the structure that the RF and modulator sections excluding antenna cannot easily be opened.
Note	DS: Direct spread FH: Frequency hopping OFDM: Orthogonal frequency division multiplexing



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6.2 E.U.T. test conditions

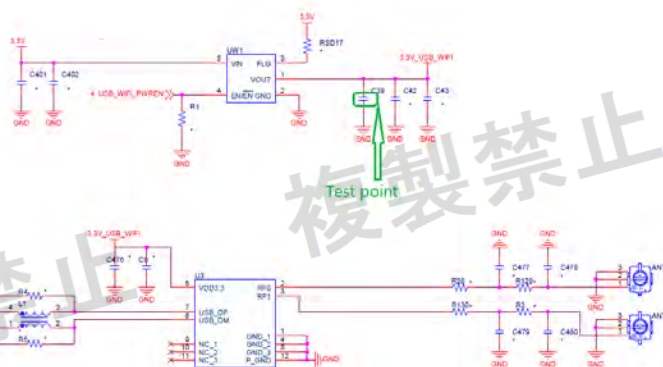
Environment:

Temperature:	5 -35.0 °C
Humidity:	45-85 % RH
Atmospheric Pressure:	99.0 -102.0 kPa

Power supply:

Test Voltage: rated voltage and $\pm 10\%$ of the rated voltage.

The product is supplied by DC 12V. The fluctuation of input voltage to the circuit of RF unit of test equipment is under $\pm 1\%$, when input voltage to the test equipment is fluctuated by $\pm 1.0\%$. So, all measurement has been conducted by only rated voltage DC 12V.



Test Mode Classify	Power Supply	Measured Value
TM 1	DC 12V	DC 3.30V
TM 2	DC 10.8V	DC 3.30V
TM 3	DC 13.2V	DC 3.31V

Test frequencies: If the EUT can be set to 3 of more different (carrier) frequencies in 1 allocated band, testing shall be performed using the Lowest, Middle and the Highest frequency (L, M and H). If there are 2 or fewer frequencies, testing shall be performed with the available frequencies.

EUT channels and frequencies list:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2412	8	2447
2	2417	9	2452
3	2422	10	2457
4	2427	11	2462

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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221200244001

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5	2432	12	2467
6	2437	13	2472
7	2442		

Using test software was control EUT work in continuous transmitter mode. And select test channel as below:

Through Preliminary tests were performed in all tests in different data rata and antenna configurations at lowest channel, the data rates of worse case as above were chosen for final test.

Channel	802.11 b/g/n(HT20)/ n(HT40)					
	No.	Frequency	Data rate			
			b	g	n20	n40
Lowest	CH01	2412MHz	1Mbps	6Mbps	MCS0	MCS0
Middle	CH07	2442MHz	1Mbps	6Mbps	MCS0	MCS0
Highest	CH13	2472MHz	1Mbps	6Mbps	MCS0	MCS0

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6.3 Antenna Requirement

6.3.1 Test Requirement:

MIC Item 19 of Article 2 Paragraph 1

6.3.2 Conclusion

Standard requirement:

Applicable for equipment with an antenna terminal, including testing terminals. If an antenna connector is available, all relevant tests will be carried out conducted. If not, tests will be carried out in an anechoic room or with a suitable test-fixture.

EUT Details:

The antenna is Dipole antenna and no consideration of replacement.



Result:

As the antenna and circuits can be separated on the microstrip, all relevant tests are measured on the conducted sample.

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6.4 Interference prevention capability

6.4.1 Test Requirement:

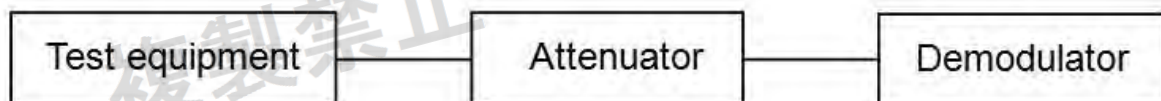
MIC Item 19 of Article 2 Paragraph 1

Limit:

Article 2, Item (19) Notice 88 Appendix 43, 44, 45

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.

6.4.2 Test Setup Diagram



6.4.3 Conclusion

Standard Requirement:

1) Measurement system diagram as shown above and test equipment keep transmitting identification code.

2) Condition of measuring instrument

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

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

4) Measuring operation procedure

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

A) Transmit the predetermined identification code from test equipment.

B) Confirm the transmitted identification code by demodulator.

EUT Details:

The unit does meet the requirements ().

wlan0 Link encap:Ethernet HWaddr C8:02:8F:DC:80:08



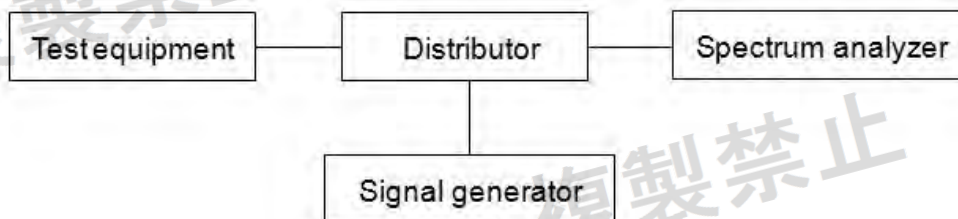
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6.5 Carrier sense capability

6.5.1 Test Requirement:

MIC Item 19 of Article 2 Paragraph 1

6.5.2 Test Setup Diagram



6.5.3 Conclusion

Standard Requirement:

1. Measurement system diagram

(1) Test with test equipment only

2. Condition of measuring instrument

(1) Set the standard signal generator as follows:

Carrier frequency: Center frequency of receiving frequency band of test equipment.

Modulation: No modulation.(note1)

Output level: regulated level on antenna input of test equipment

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

(2) Set the spectrum analyzer as follows:

Center frequency: Center frequency of the bandwidth used.(note2)

Sweep frequency band: 50MHz(note2)

Resolution bandwidth: Approximately 1 MHz

Video bandwidth: Comparable level with resolution bandwidth

Trigger condition: Free-run

Detective mode: positive peak

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

3. Condition of test equipment

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

4. Measuring operation procedure

(1) Test with test equipment only:

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

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

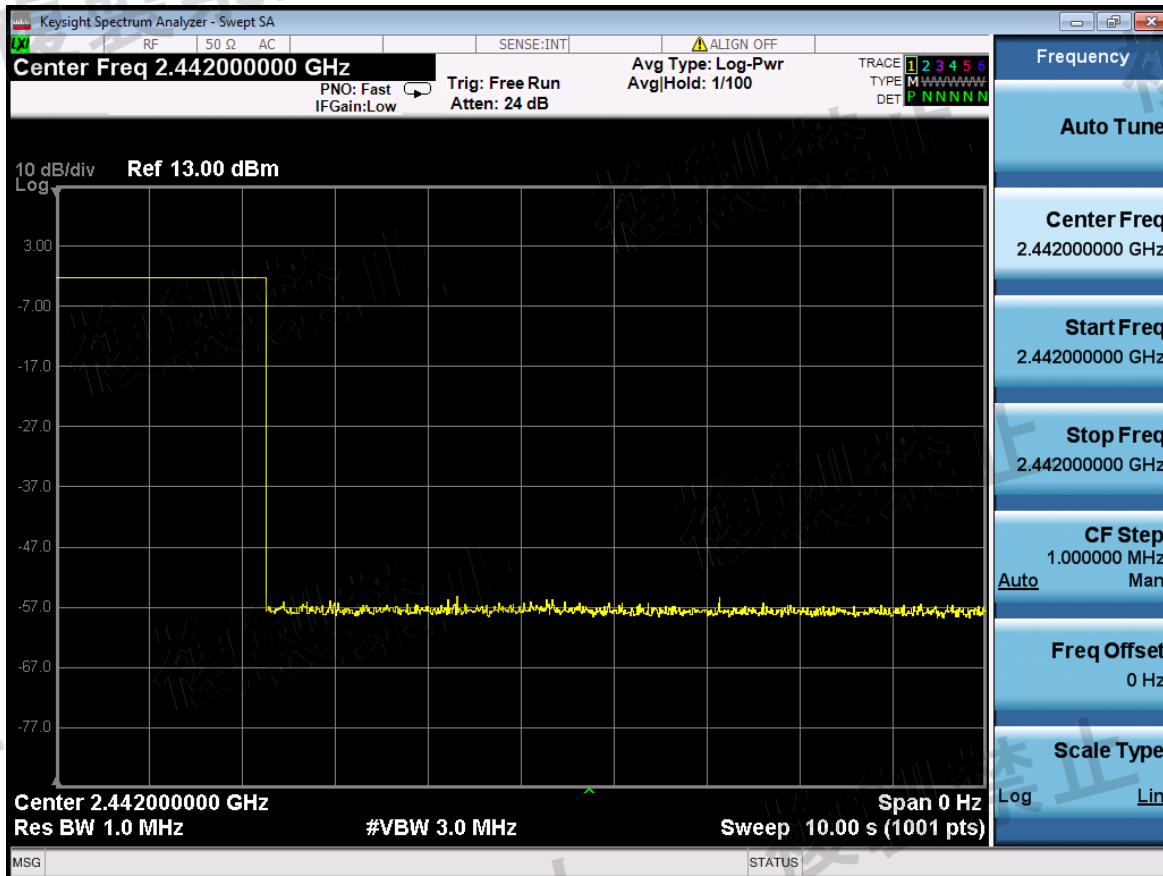


spectrum analyzer.

c. Set the test equipment to the receiving mode.

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

EUT Details:



The unit does meet the requirements (Good).

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6.6 RF accessibility

6.6.1 Test Requirement:

MIC Item 19 of Article 2 Paragraph 1

6.6.2 Conclusion

Standard Requirement:

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.

EUT Details:

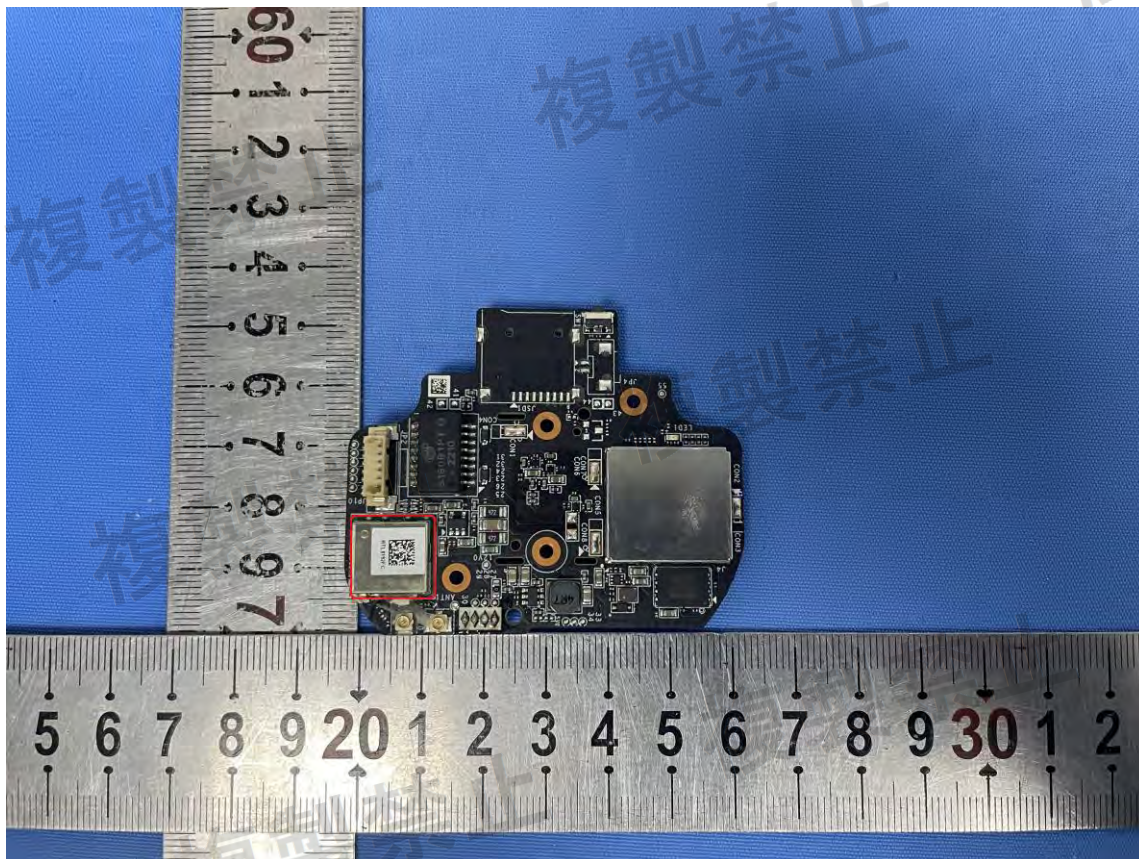
Protective Structure:

☐	1.Sealed with special screws.
☐	2.Plastic chassis is being welded using ultrasonic waves.
☐	3.Chassis is glued using a special adhesive.
☐	4.Metal covers are spot-fused.
☐	5.Cover is specially interlocked
☒	6.RF and Modulation components are covered with shielding case and this shielding case is soldered.
☐	7.Shield case is welded at RF and modulation parts, and ID-ROM is welded using the BGA Method.
☐	8.Shield case is welded at RF and modulation parts, and ID-ROM is glued at its lead with a special adhesive.
☐	9.Shield case is welded at RF and modulation parts, and ID-ROM is glued with a non-transparent laminating agent.
☐	10.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.

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7 Radio Spectrum Matter Test Results

7.1 Frequency Error

Test Requirement MIC Item 19 of Article 2 Paragraph 1

Test Method: MIC Notice No.88 Appendix No.43

Limit:

Tolerance of frequency: $\pm 50\text{E-}6$

7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 20.8 °C

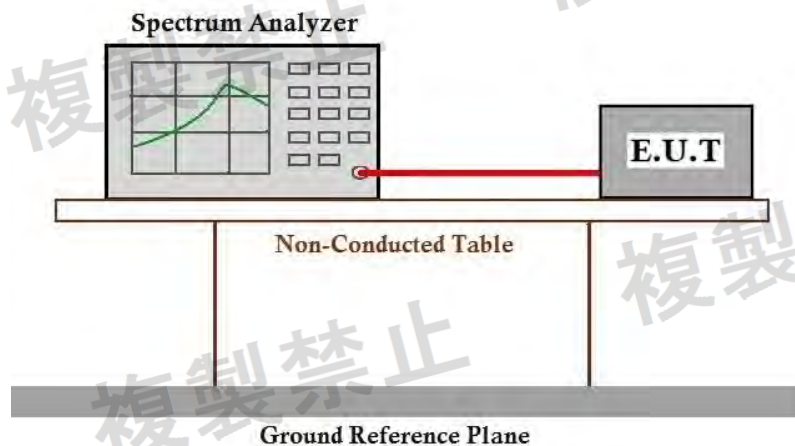
Humidity: 47.6 % RH

Atmospheric Pressure: 1010 mbar

7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); Only the data of worst case is recorded in the report.

7.1.3 Test Setup Diagram



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7.1.4 Measurement Procedure and Data

1. Test Conditions:

Spectrum Analyzer is used for measurement.

2. EUT conditions:

Modulation/Spread/Hopping OFF, CW Tx

3. Spectrum Analyzer conditions:

Frequency: Test Frequency

Span 1MHz

RBW 10 kHz (Modulation OFF),

VBW 10 kHz (Modulation OFF),

Sweep Time Auto

Detector mode Positive peak

Indication mode Max hold

Alternative method:

Frequency: Test Frequency

Span 2 times channel bandwidth

RBW 100 kHz (Modulation ON),

VBW 100 kHz (Modulation ON),

Sweep Time Auto

Detector mode Positive peak

Indication mode Max hold

Please Refer to Appendix for Details



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7.2 Occupied Bandwidth(99%)

Test Requirement MIC Item 19 of Article 2 Paragraph 1

Test Method: MIC Notice No.88 Appendix No.43

Limit:

FH: 83.5MHz or less

OFDM: 40MHz or less

Others: 26MHz or less

7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 20.5 °C

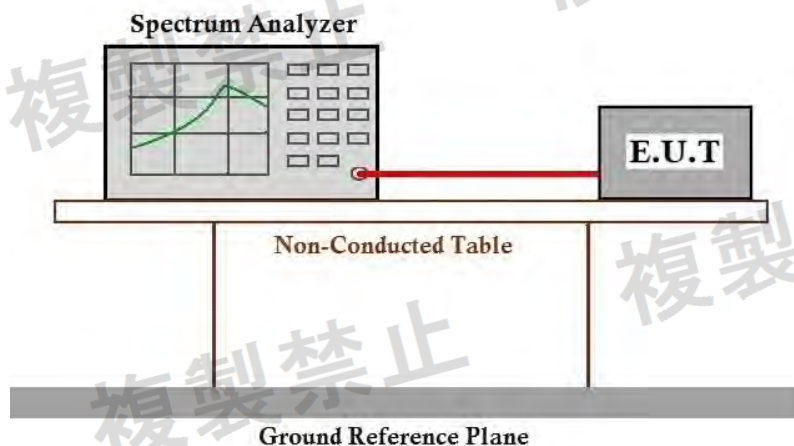
Humidity: 47.5 % RH

Atmospheric Pressure: 1010 mbar

7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); Only the data of worst case is recorded in the report.

7.2.3 Test Setup Diagram



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t(86-512)57355888

f(86-512)57370818

www.sgsgroup.com.cn

t(86-512)57355888

f(86-512)57370818

sgs.china@sgs.com

7.2.4 Measurement Procedure and Data

1. Test Conditions:

Spectrum Analyzer is used for measurement.

2. EUT conditions:

Modulation/Spread/Hopping ON, Modulation Tx

For equipment using diffusion code, set to the test diffusion code and modulate with standard coding test signal.

3. Spectrum Analyzer conditions:

Frequency: Test Frequency

Span 83.5 MHz (FHSS); 40/60 MHz (OFDM; DSSS); 2-5 times OBW (Others)

RBW 1 MHz (FHSS); 300kHz (OFDM; DSSS); 3% OBW (Others)

VBW 1 MHz (FHSS); 300kHz (OFDM; DSSS); 3 times RBW (Others)

Sweep Time Auto

detector mode Positive peak

Indication mode Max hold

OBW 99%

Please Refer to Appendix for Details



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7.3 Spread spectrum Bandwidth(90%)

Test Requirement MIC Item 19 of Article 2 Paragraph 1

Test Method: MIC Notice No.88 Appendix No.43

Limit:

DS, FH, FH+DS, FH+OFDM: 500kHz or more

For DS system;(Spreading bandwidth) / (Frequency corresponding to transmission rate) ≥ 5

7.3.1 E.U.T. Operation

Operating Environment:

Temperature: 20.6 °C

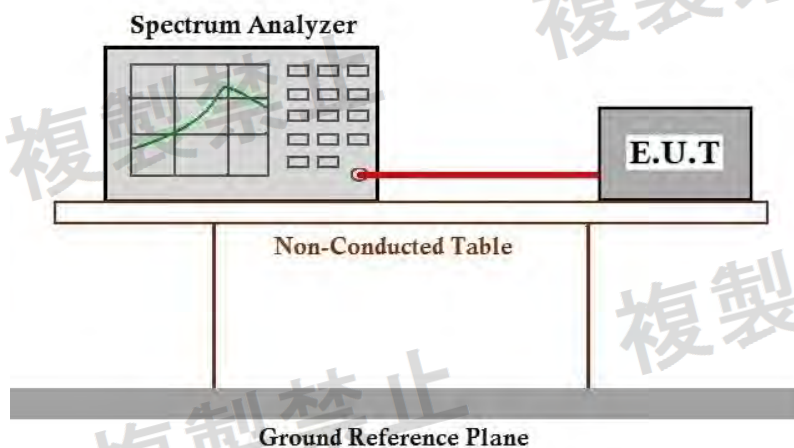
Humidity: 47.5 % RH

Atmospheric Pressure: 1010 mbar

7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); Only the data of worst case is recorded in the report.

7.3.3 Test Setup Diagram



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7.3.4 Measurement Procedure and Data

1. Test Conditions:

Spectrum Analyzer is used for measurement.

2. EUT conditions:

Modulation/Spread/Hopping ON, Modulation Tx

For equipment using diffusion code, set to the test diffusion code and modulate with standard coding test signal.

3. Spectrum Analyzer conditions:

Frequency: Test Frequency

Span 83.5 MHz (FHSS); 40/60 MHz (OFDM; DSSS)

RBW 1 MHz (FHSS); 300kHz (OFDM; DSSS)

VBW 1 MHz (FHSS); 300kHz (OFDM; DSSS)

Sweep Time Auto

detector mode Positive peak

Indication mode Max hold

OBW 90%

Please Refer to Appendix for Details



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7.4 Antenna Power

Test Requirement MIC Item 19 of Article 2 Paragraph 1

Test Method: MIC Notice No.88 Appendix No.43

Limit:

Designated value

(1) FH, FH+DS, FH+OFDM: 3mW/MHz

(used in the range of 2427 - 2470.75 MHz)

(2) OFDM, DS other than (1) 10mW/MHz

(3) Other than (1) & (2) 10mW

(4) OFDM OBW 26 - 40MHz: 5mW/MHz

Tolerance: +20%, -80%

7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 20.5 °C

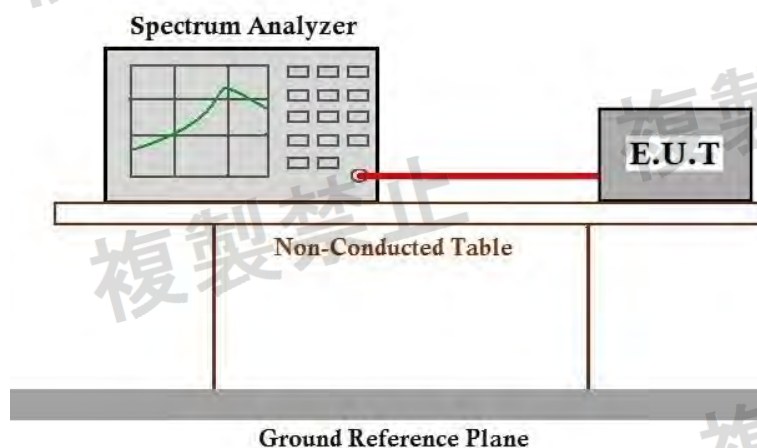
Humidity: 48.0 % RH

Atmospheric Pressure: 1010 mbar

7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); Only the data of worst case is recorded in the report.

7.4.3 Test Setup Diagram



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7.4.4 Measurement Procedure and Data

1. Test Conditions:

Spectrum Analyzer is used for measurement.

2. EUT conditions:

Modulation/Spread/Hopping ON, Modulation Tx

For equipment using diffusion code, set to the test diffusion code and modulate with standard coding test signal.

3. Spectrum Analyzer conditions:

Frequency: Test Frequency

Span 25 MHz(FHSS); 40/60 MHz (OFDM; DSSS); Enough to capture the emission (Others)

RBW 1 MHz (FHSS; OFDM; DSSS); More than OBW (Others)

VBW 1 MHz (FHSS; OFDM; DSSS); More than RBW (Others)

Sweep Time Auto

detector mode RMS

Indication mode Max hold

Please Refer to Appendix for Details



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7.5 Spurious emission Intensity

Test Requirement MIC Item 19 of Article 2 Paragraph 1

Test Method: MIC Notice No.88 Appendix No.43

Limit:

(1) Below 2387 MHz: $2.5 \mu\text{W/MHz}$

(2) 2387 to 2400 MHz: $25 \mu\text{W/MHz}$

(3) 2483.5 through 2496.5 MHz: $25 \mu\text{W/MHz}$

(4) Over 2496.5 MHz: $2.5 \mu\text{W/MHz}$

7.5.1 E.U.T. Operation

Operating Environment:

Temperature: 20.5°C

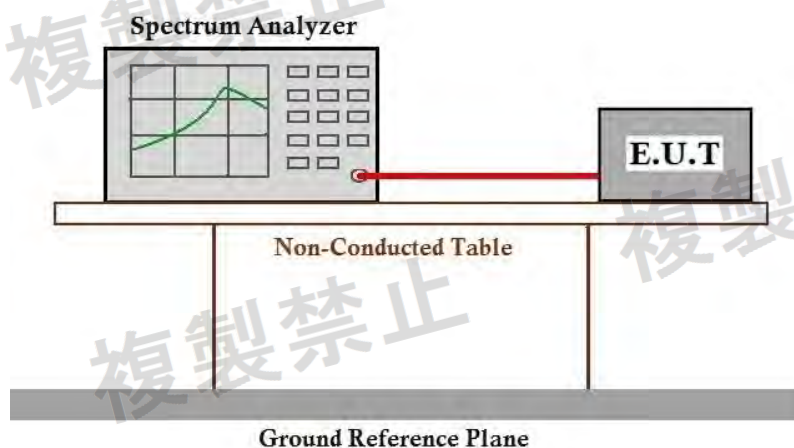
Humidity: 47.8 % RH

Atmospheric Pressure: 1010 mbar

7.5.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); Only the data of worst case is recorded in the report.

7.5.3 Test Setup Diagram



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7.5.4 Measurement Procedure and Data

1. Test Conditions:

Spectrum Analyzer is used for measurement.

2. EUT conditions:

Modulation/Spread/Hopping ON, , Modulation Tx

For equipment using diffusion code, set to the test diffusion code and modulate with standard coding test signal.

3. Spectrum Analyzer conditions:

Step 1

All spurious are measured from 30 MHz to 13 GHz by peak mode.

Step 2

IF the value measured by Step1 is 2 dB or less, measure in average mode.

Test setup for Step 1:

Frequency: 30 MHz - 2400 MHz , 2483.5 MHz -13 GHz

RBW 1 MHz

VBW 1 MHz

Sweep Time Auto

detector mode Positive peak

Indication mode Max hold

Test setup for Step 2:

Frequency: Spurious Frequency

RBW 1 MHz

VBW 1 MHz

Sweep Time Auto

detector mode Sample

Indication mode Max hold

Please Refer to Appendix for Details



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7.6 Limit of secondary radiated emissions

Test Requirement MIC Item 19 of Article 2 Paragraph 1

Test Method: MIC Notice No.88 Appendix No.43

Limit:

(1) Below 1 GHz : 4 nW or less

(2) 1 GHz and over : 20 nW or less

7.6.1 E.U.T. Operation

Operating Environment:

Temperature: 20.6 °C

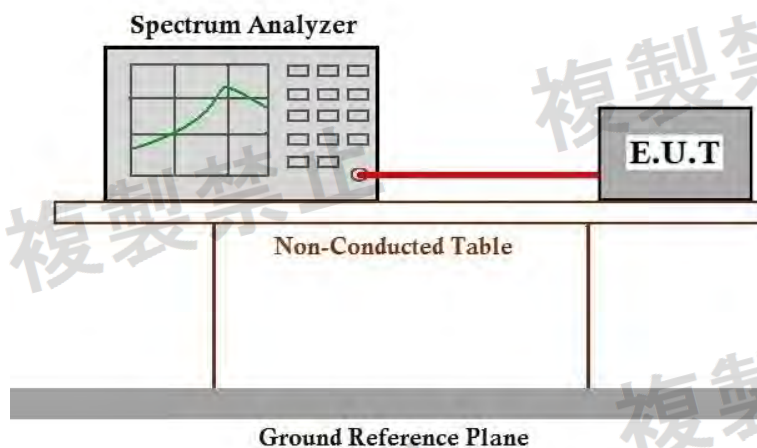
Humidity: 47.5 % RH

Atmospheric Pressure: 1010 mbar

7.6.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	RX mode_Keep the EUT in receiving mode. Only the 20MHz channel plan was tested and recorded in the report.

7.6.3 Test Setup Diagram



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f(86-512)57370818

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7.6.4 Measurement Procedure and Data

1. Test Conditions:

Spectrum Analyzer is used for measurement.

2. EUT conditions:

Modulation/Spread/Hopping ON

For equipment using diffusion code, set to the test diffusion code and modulate with standard coding test signal.

3. Spectrum Analyzer conditions:

Step 1

All spurious are measured from 30 MHz to 13 GHz by peak mode.

Step 2

IF the value measured by Step1 is 2 dB or less, measure in average mode.

Test setup for Step 1:

Frequency: 30 MHz - 2400 MHz , 2483.5 MHz -13 GHz

RBW 100 kHz (30 - 1GHz) , 1 MHz (over 1GHz)

VBW 100 kHz (30 - 1GHz) , 1 MHz (over 1GHz)

Sweep Time Auto

detector mode Positive peak

Indication mode Max hold

Test setup for Step 2:

Frequency: Spurious Frequency

Span 0 Hz

RBW 100 kHz (30 - 1GHz) , 1 MHz (over 1GHz)

VBW 100 kHz (30 - 1GHz) , 1 MHz (over 1GHz)

Sweep Time Auto

detector mode Sample

Indication mode Max hold

Please Refer to Appendix for Details



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8 Test Setup Photo

Conducted test setup



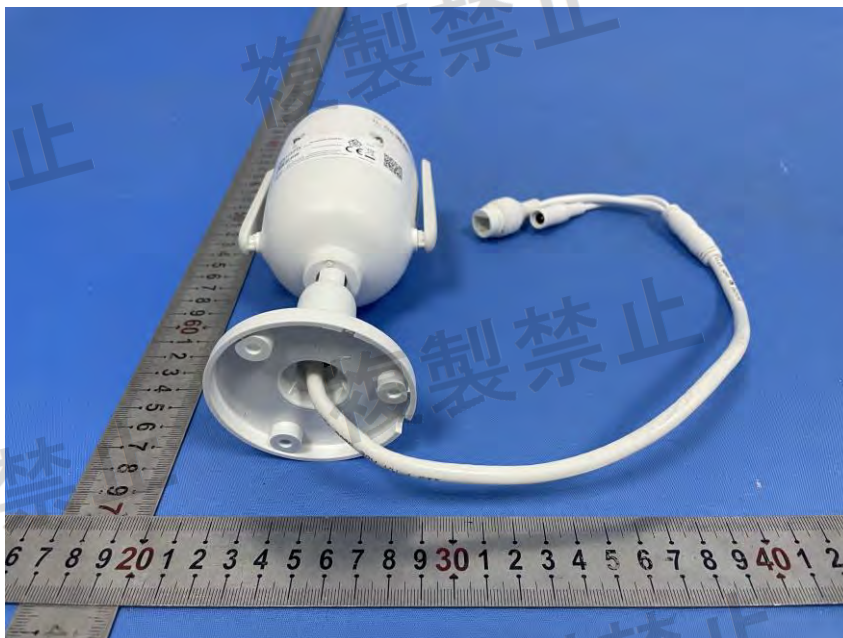
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9 EUT Constructional Details (EUT Photos)



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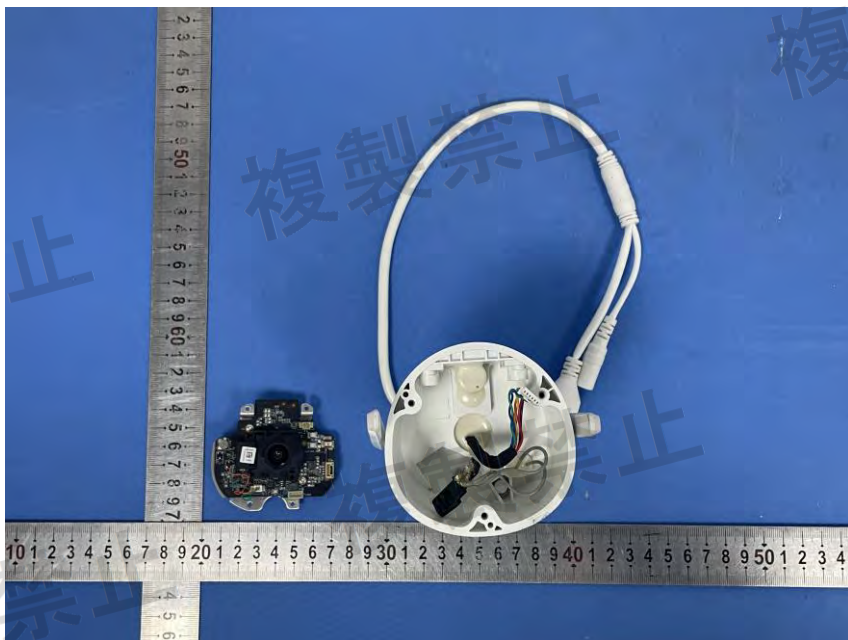


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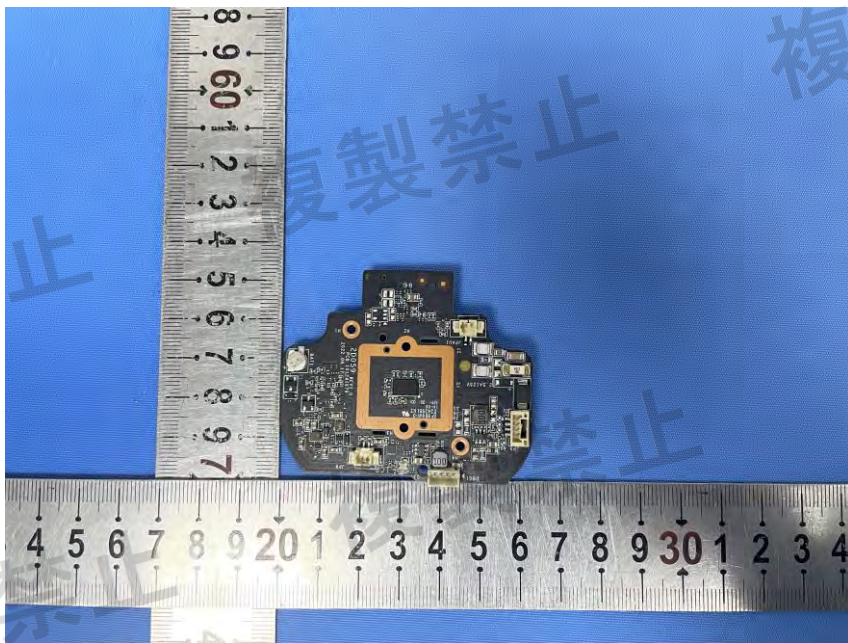
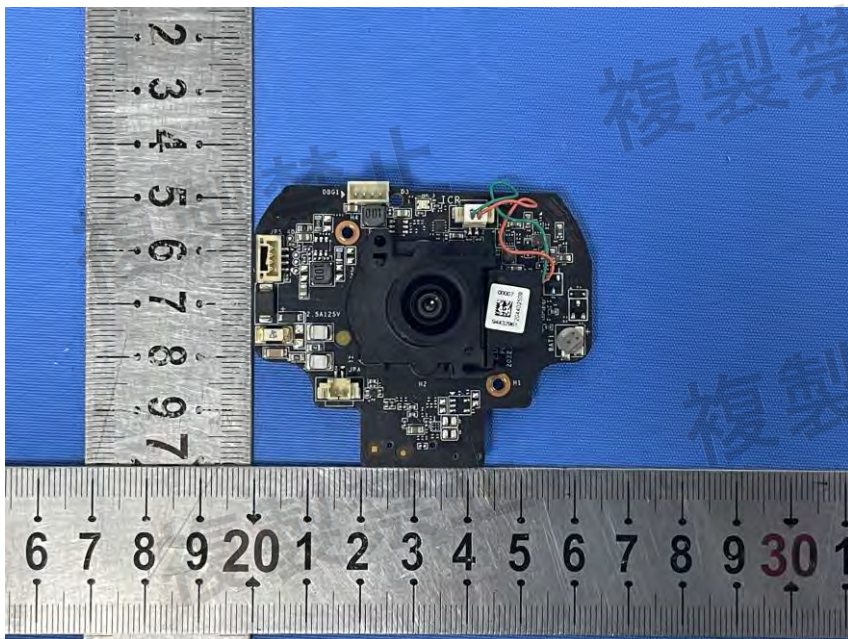


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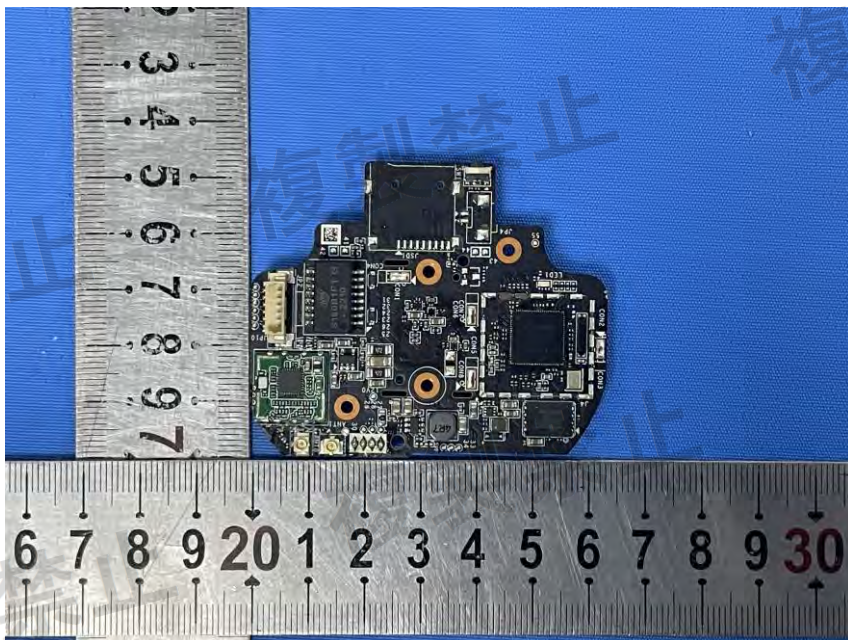
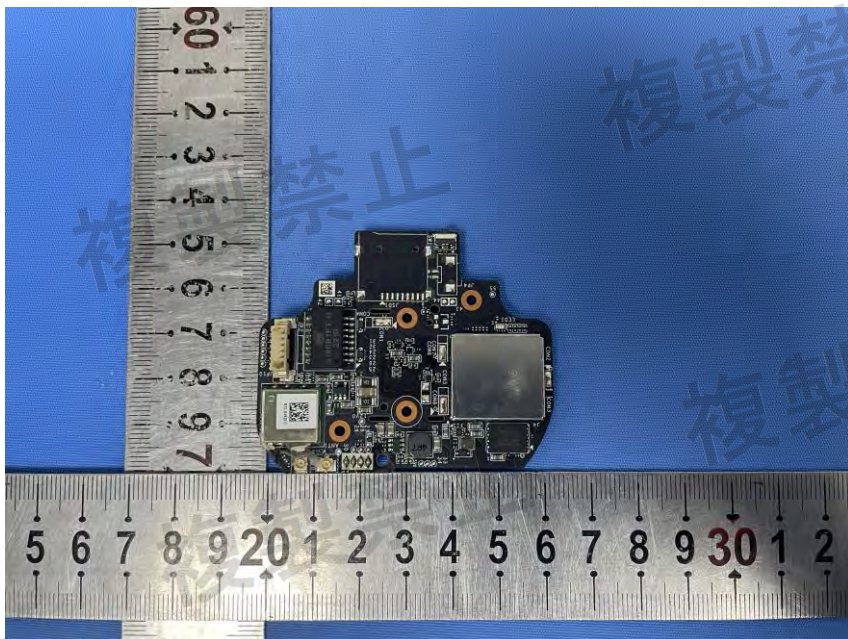
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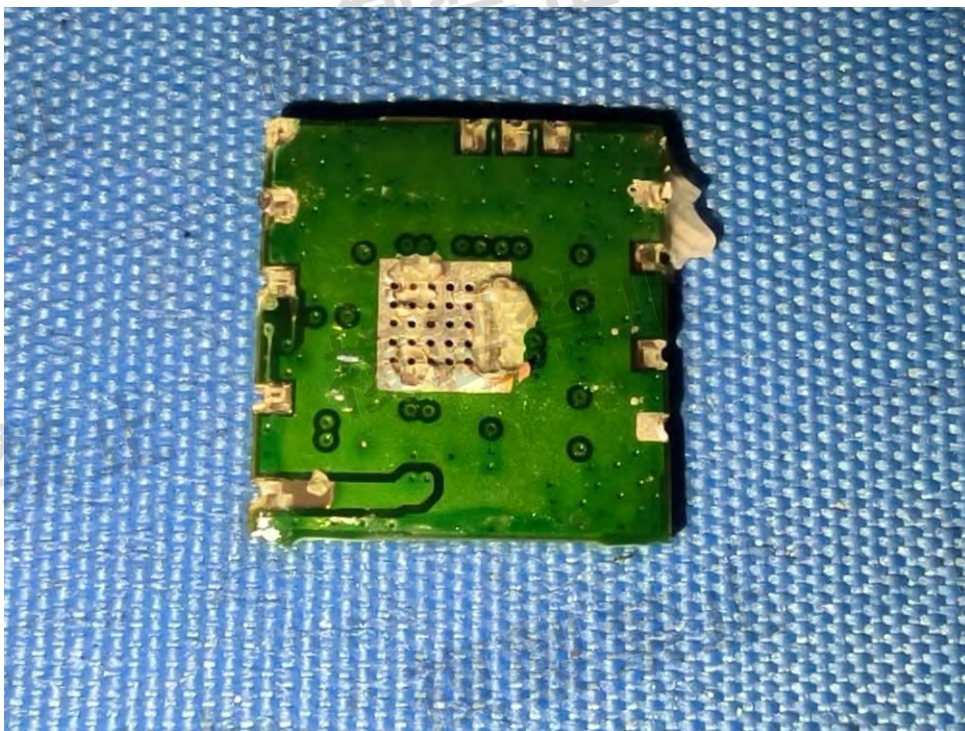
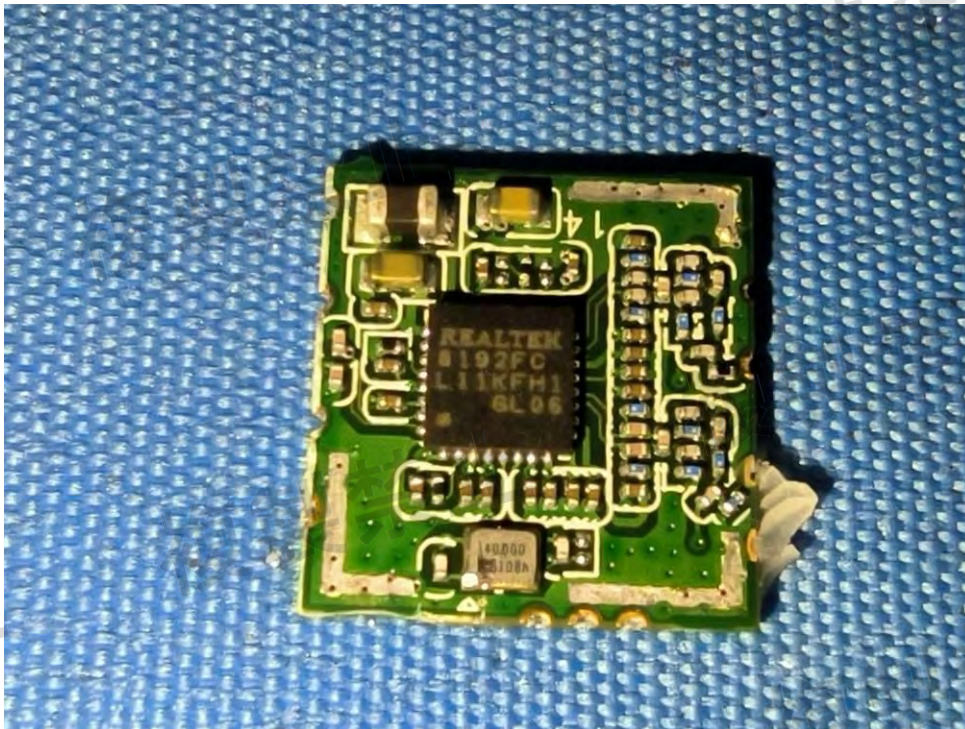
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10 Appendix

1. Frequency Error

1.1 Ant1

1.1.1 Test Result

Ant1							
ENV	Mode	TX Type	Frequency (MHz)	Measured Frequency (MHz)	Tolerance (ppm)		Verdict
					Result	Limit	
NTNV	802.11b	SISO	2412	2412.004	1.66	-50 to 50	Pass
			2442	2441.998	-0.82	-50 to 50	Pass
			2472	2471.998	-0.81	-50 to 50	Pass
	802.11g	SISO	2412	2412.004	1.66	-50 to 50	Pass
			2442	2441.998	-0.82	-50 to 50	Pass
			2472	2472.006	2.43	-50 to 50	Pass
	802.11n (HT20)	SISO	2412	2412.004	1.66	-50 to 50	Pass
			2442	2442.010	4.10	-50 to 50	Pass
			2472	2472.000	0.00	-50 to 50	Pass
	802.11n (HT40)	SISO	2422	2421.980	-8.26	-50 to 50	Pass
			2442	2441.992	-3.28	-50 to 50	Pass
			2462	2462.004	1.62	-50 to 50	Pass
	802.11n (HT20)	MIMO	2412	2412.004	1.66	-50 to 50	Pass
			2442	2442.012	4.91	-50 to 50	Pass
			2472	2471.996	-1.62	-50 to 50	Pass
	802.11n (HT40)	MIMO	2422	2421.984	-6.61	-50 to 50	Pass
			2442	2441.996	-1.64	-50 to 50	Pass
			2462	2462.008	3.25	-50 to 50	Pass

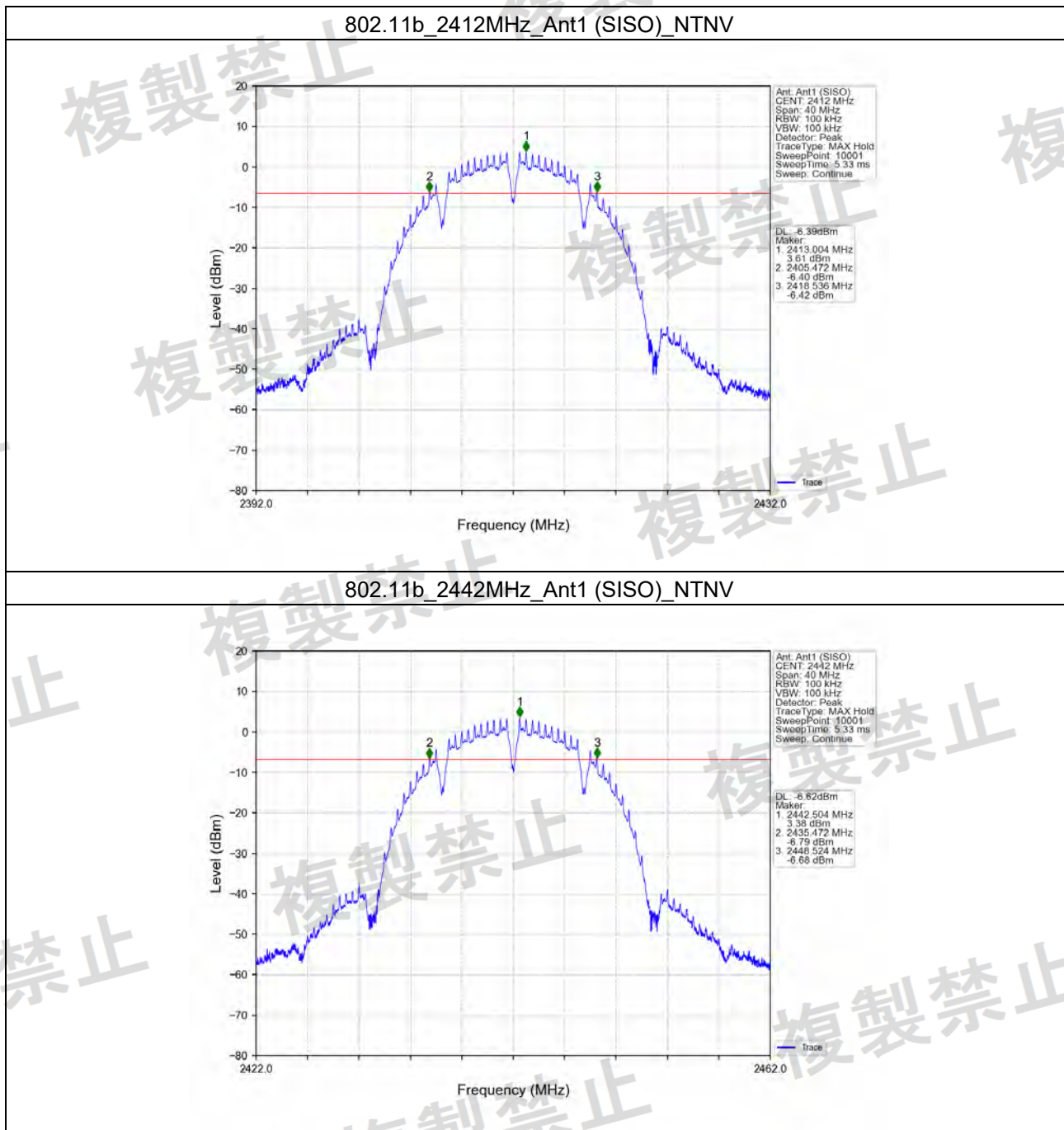
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1.1.2 Test Graph



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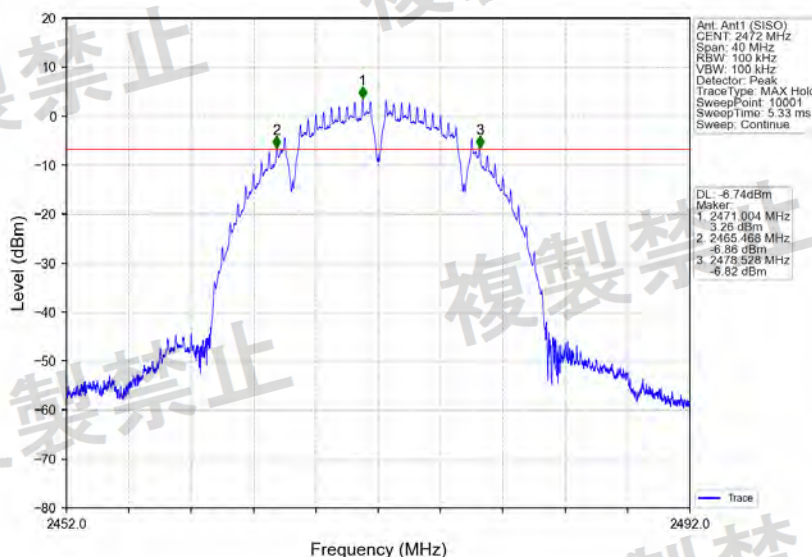
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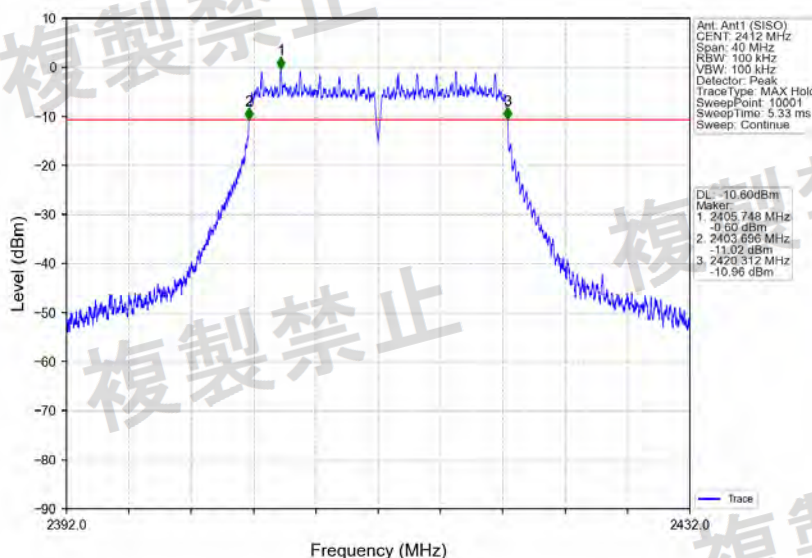
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802.11g_2412MHz_Ant1 (SISO)_NTNV



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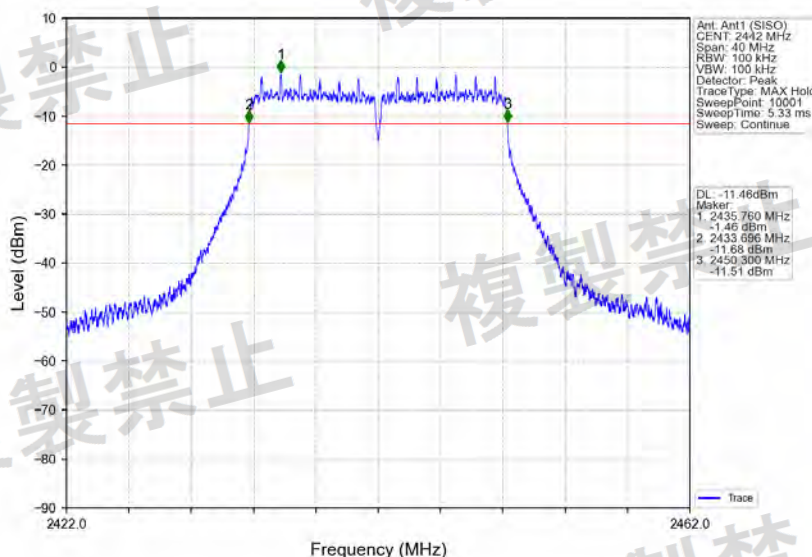
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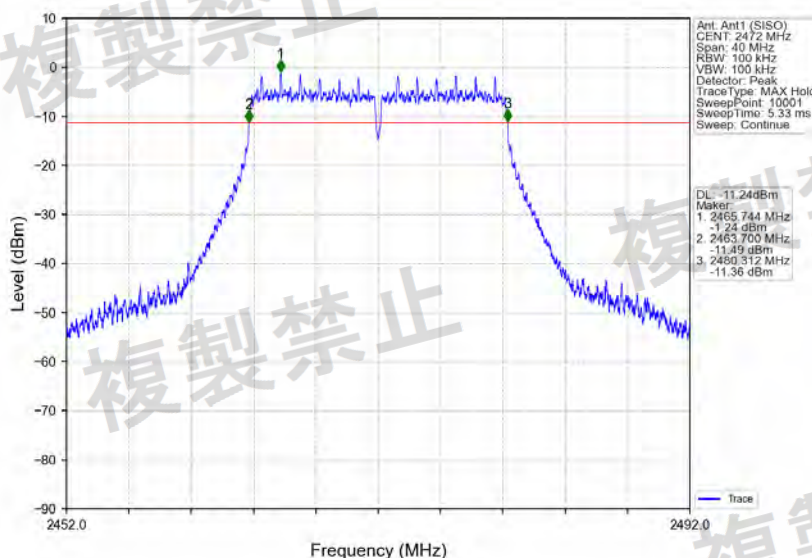
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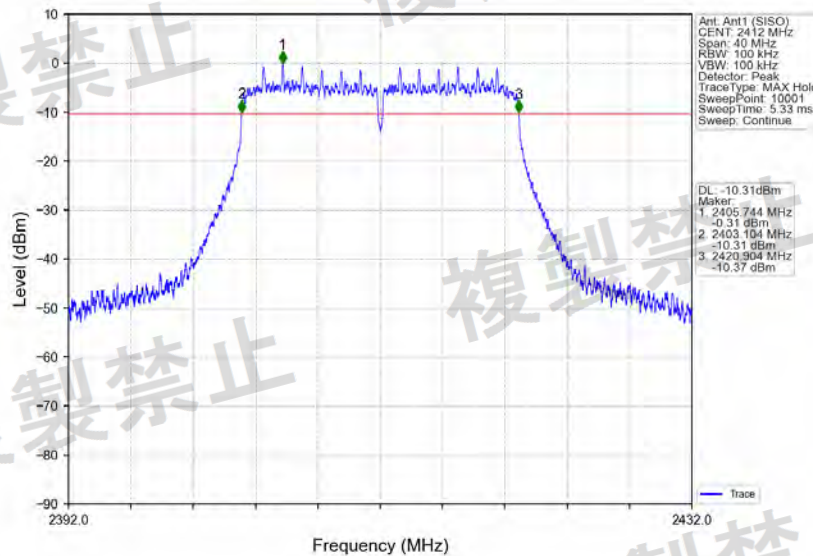
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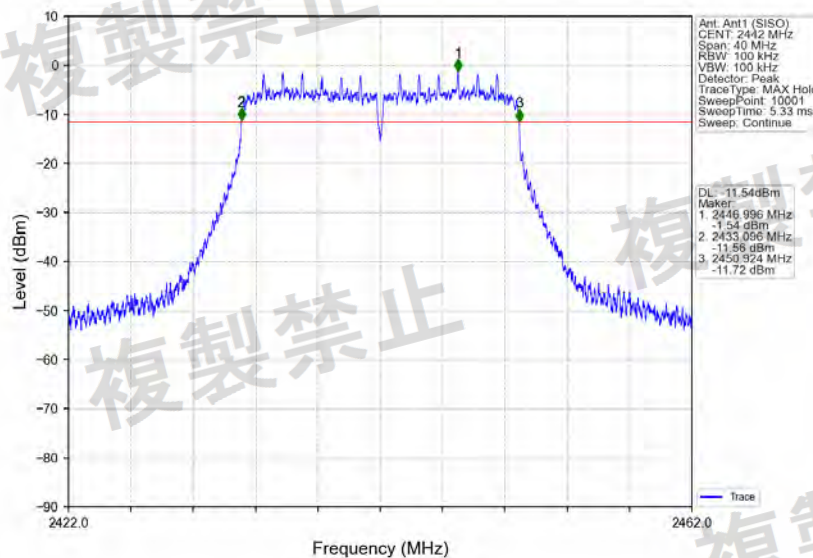
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802.11n(HT20)_2442MHz_Ant1 (SISO)_NTNV



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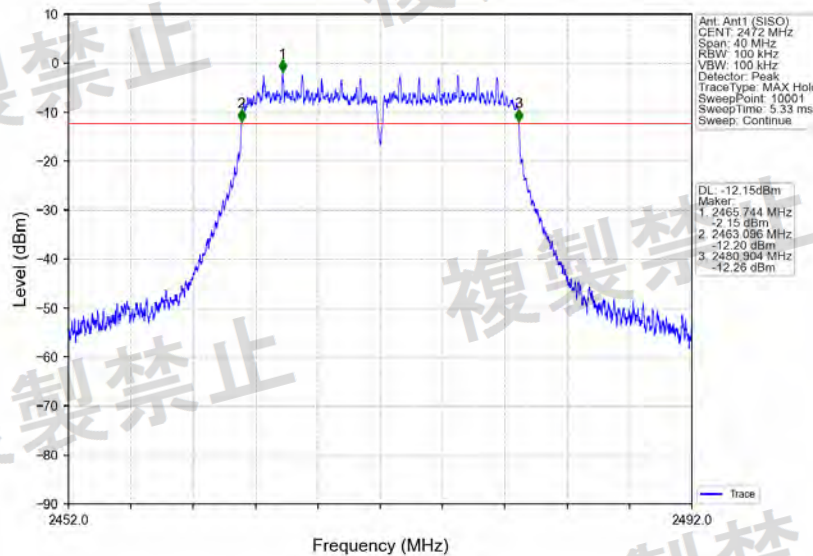
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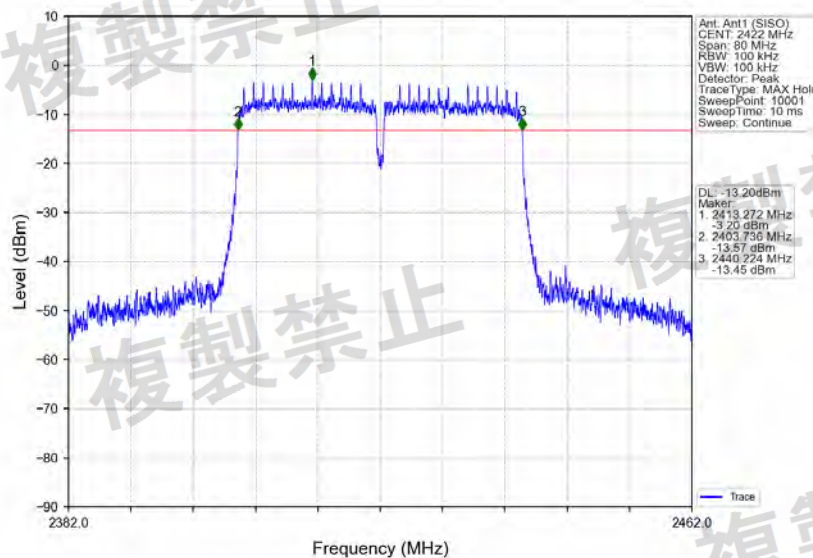
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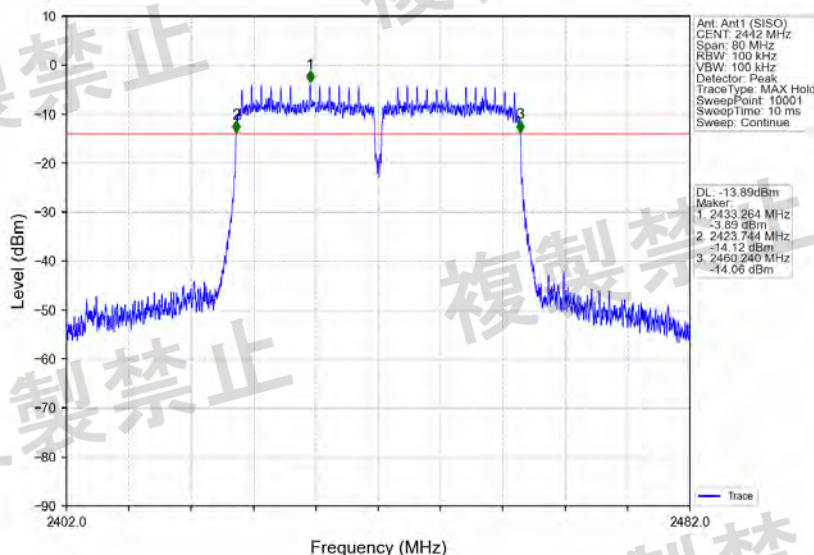
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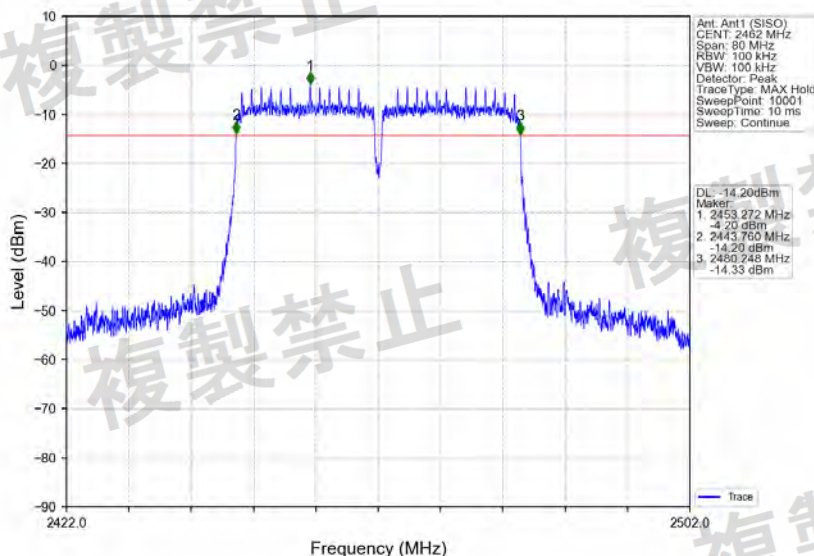
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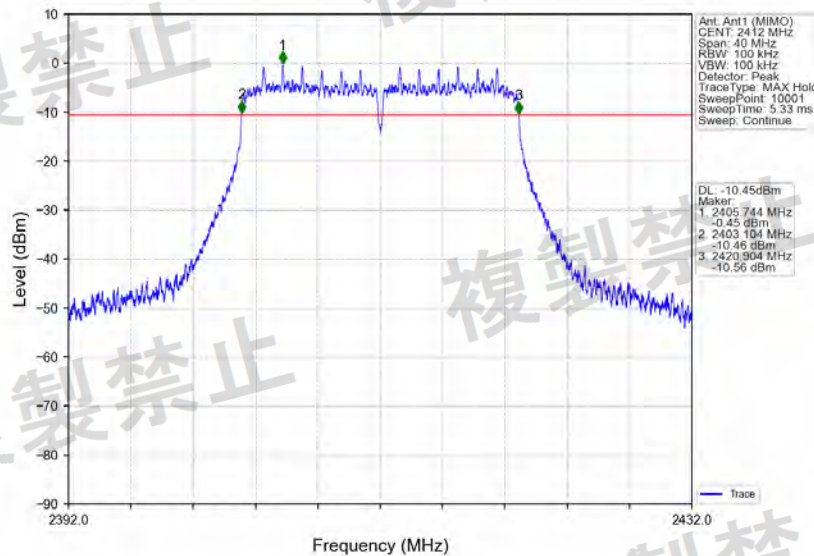
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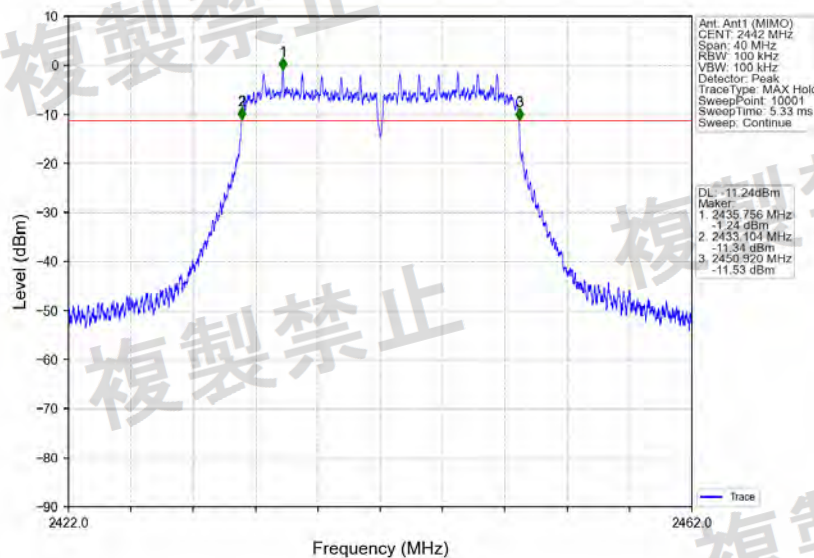
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802.11n(HT20)_2442MHz_Ant1 (MIMO)_NTNV



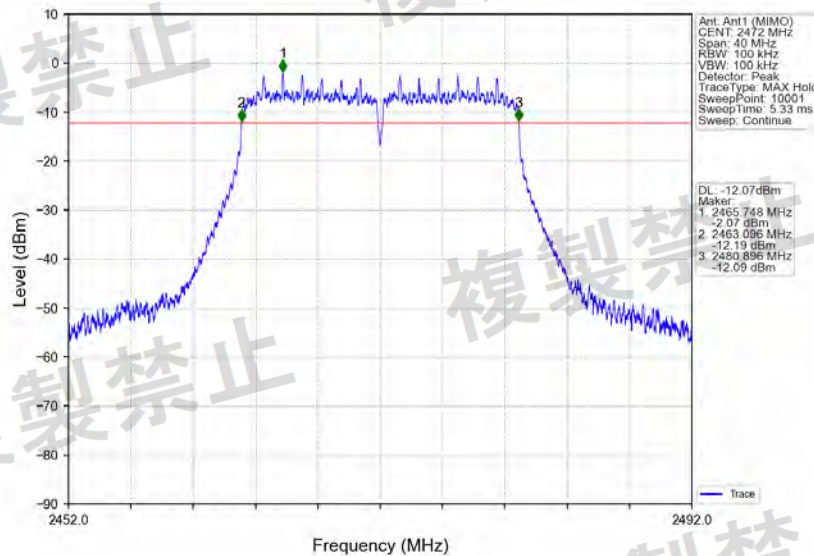
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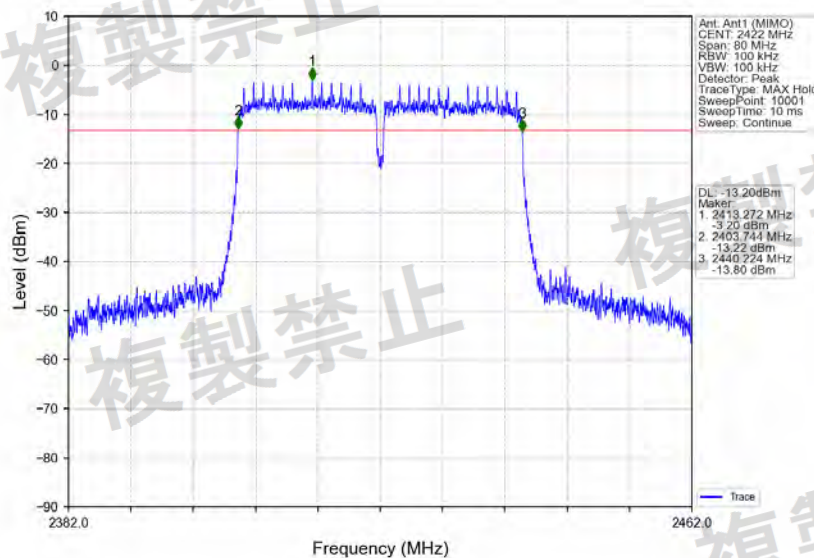
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802.11n(HT20)_2472MHz_Ant1 (MIMO)_NTNV



802.11n(HT40)_2422MHz_Ant1 (MIMO)_NTNV



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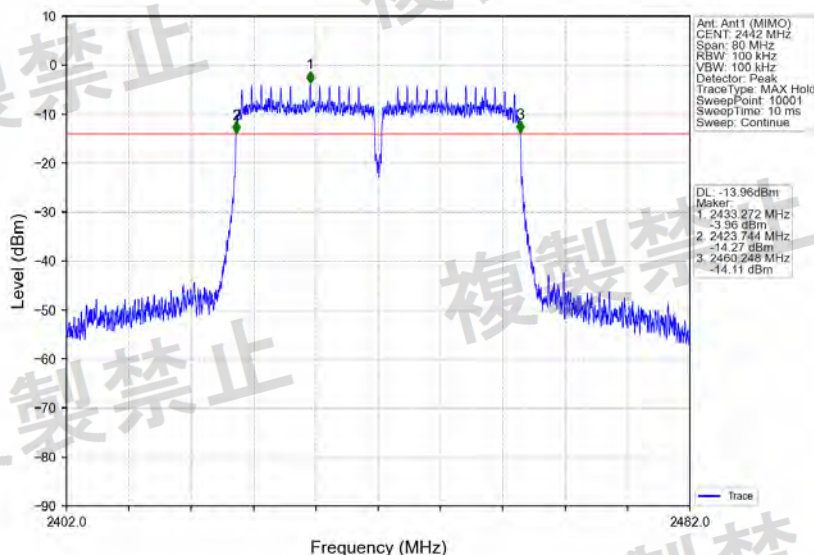
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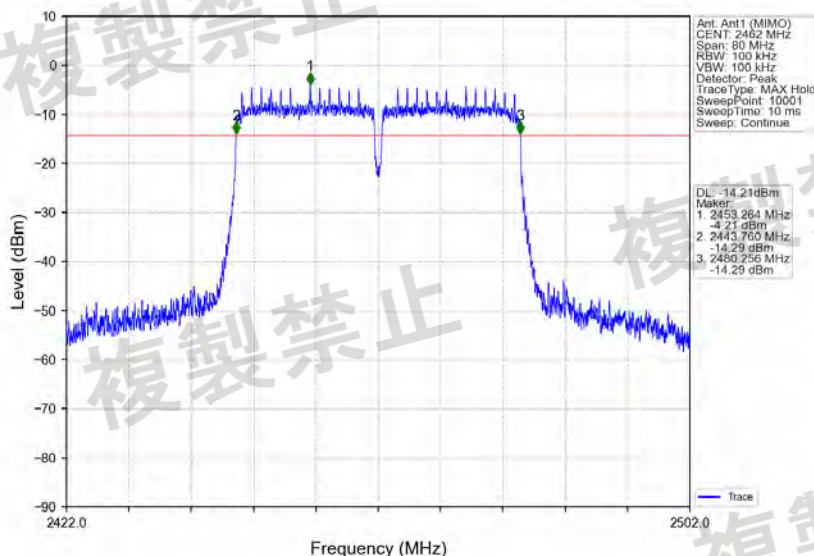
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802.11n(HT40)_2442MHz_Ant1 (MIMO)_NTNV



802.11n(HT40)_2462MHz_Ant1 (MIMO)_NTNV



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2. Occupied Bandwidth

2.1 OBW

2.1.1 Test Result

ENV	Mode	TX Type	Frequency (MHz)	99% Occupied Bandwidth (MHz)			Verdict
				ANT1	ANT2	Limit	
NTNV	802.11b	SISO	2412	14.951	14.921	≤ 26	Pass
			2442	14.964	14.929	≤ 26	Pass
			2472	15.121	15.098	≤ 26	Pass
	802.11g	SISO	2412	16.767	16.670	≤ 40	Pass
			2442	16.724	16.692	≤ 40	Pass
			2472	16.762	16.761	≤ 40	Pass
	802.11n (HT20)	SISO	2412	17.772	17.759	≤ 40	Pass
			2442	17.788	17.782	≤ 40	Pass
			2472	17.735	17.730	≤ 40	Pass
	802.11n (HT40)	SISO	2422	35.913	35.883	≤ 40	Pass
			2442	35.855	35.858	≤ 40	Pass
			2462	35.928	35.913	≤ 40	Pass
	802.11n (HT20)	MIMO	2412	17.773	17.745	≤ 40	Pass
			2442	17.797	17.772	≤ 40	Pass
			2472	17.726	17.728	≤ 40	Pass
	802.11n (HT40)	MIMO	2422	35.907	35.908	≤ 40	Pass
			2442	35.888	35.864	≤ 40	Pass
			2462	35.920	35.924	≤ 40	Pass

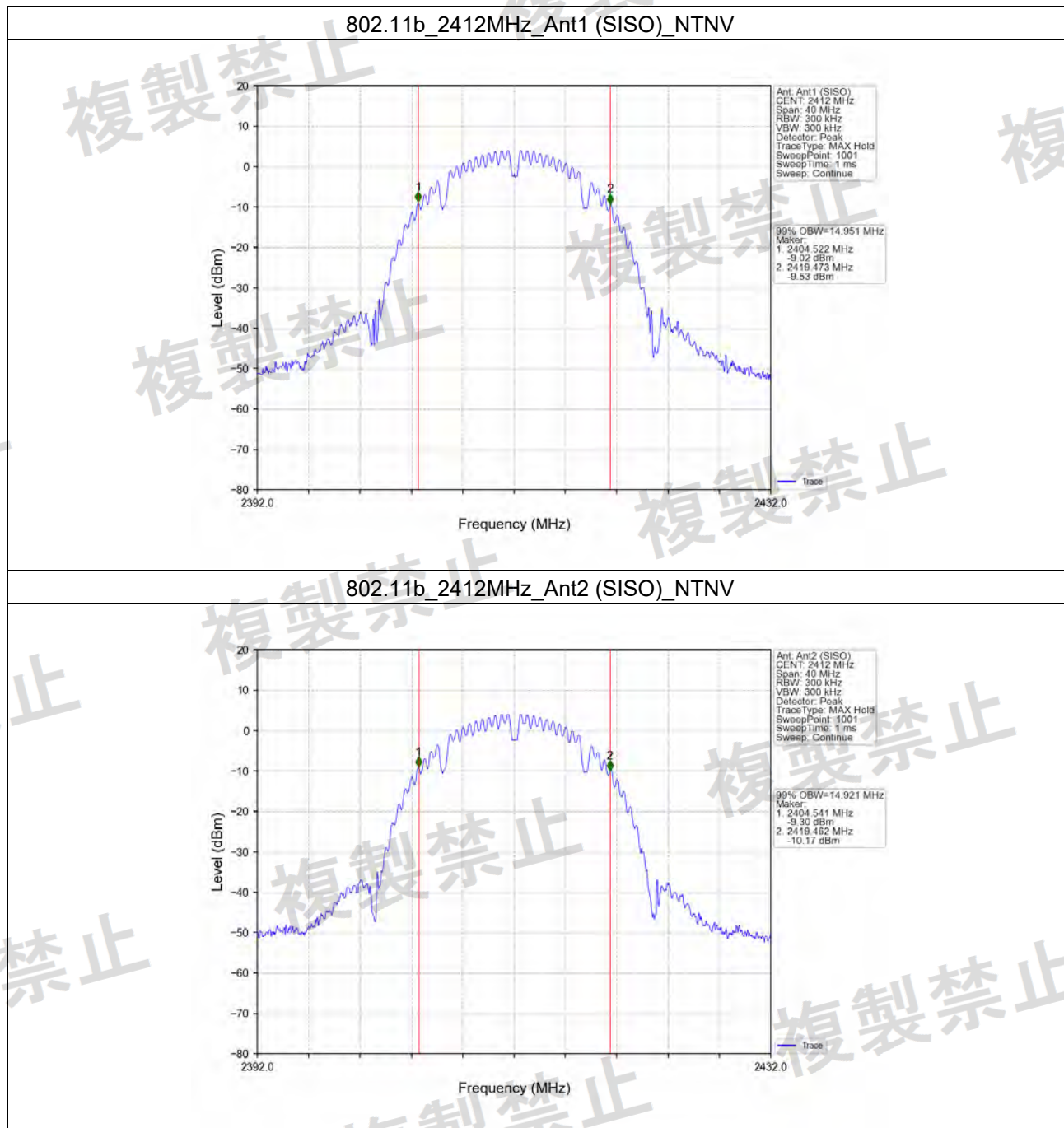
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2.1.2 Test Graph



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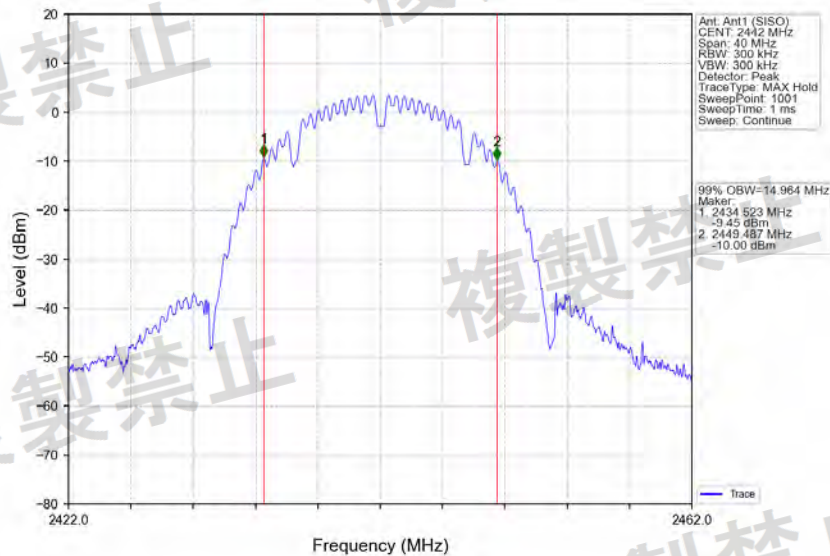
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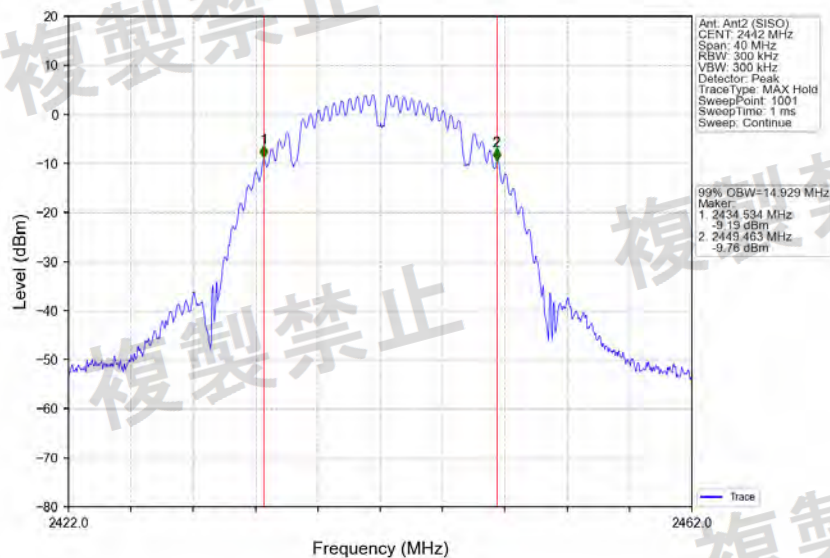
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802.11b_2442MHz_Ant2 (SISO)_NTNV



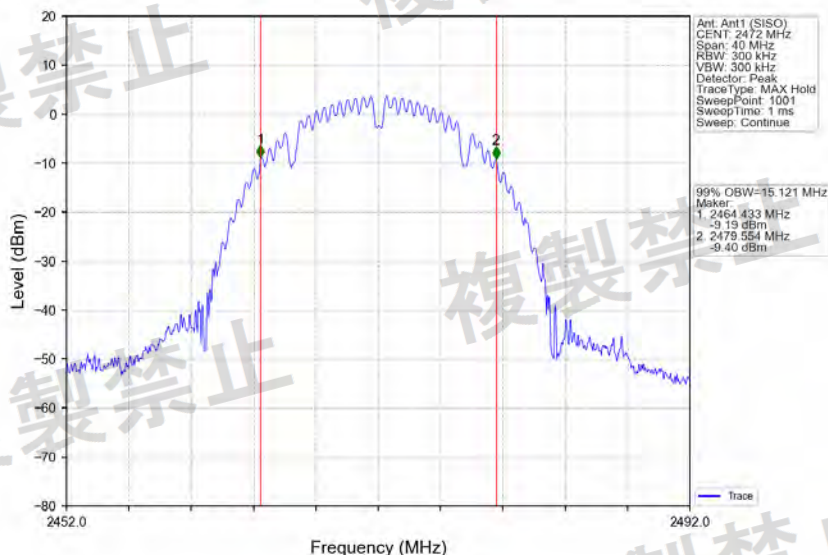
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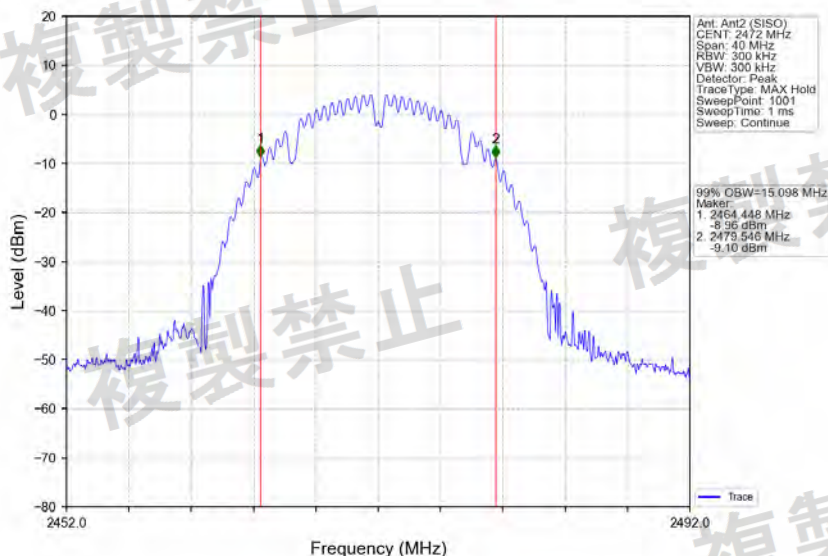
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802.11b_2472MHz_Ant2 (SISO)_NTNV



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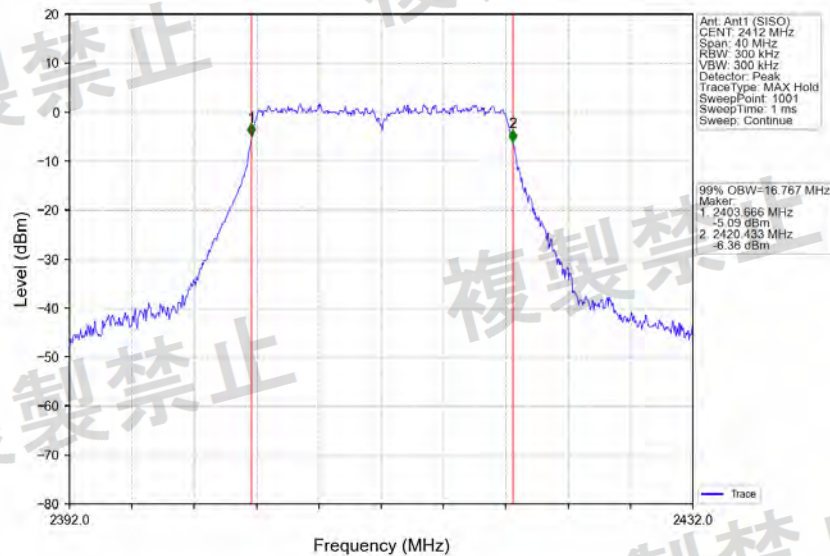
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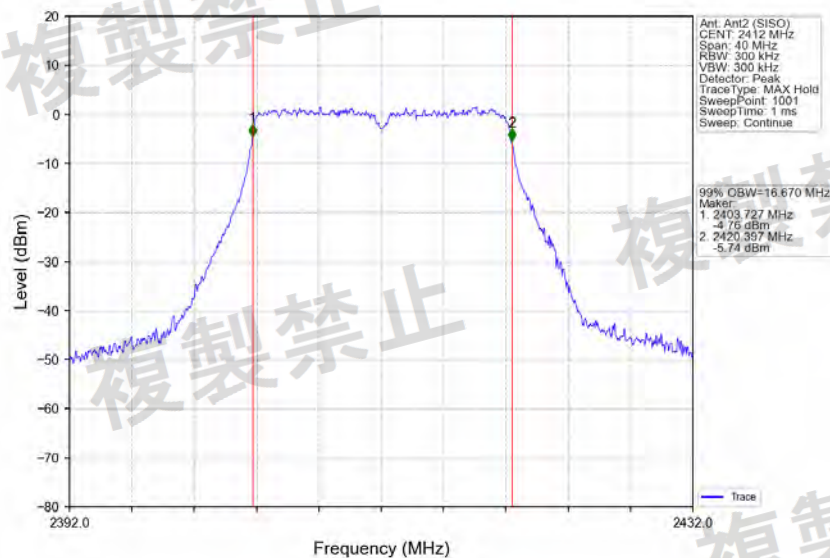
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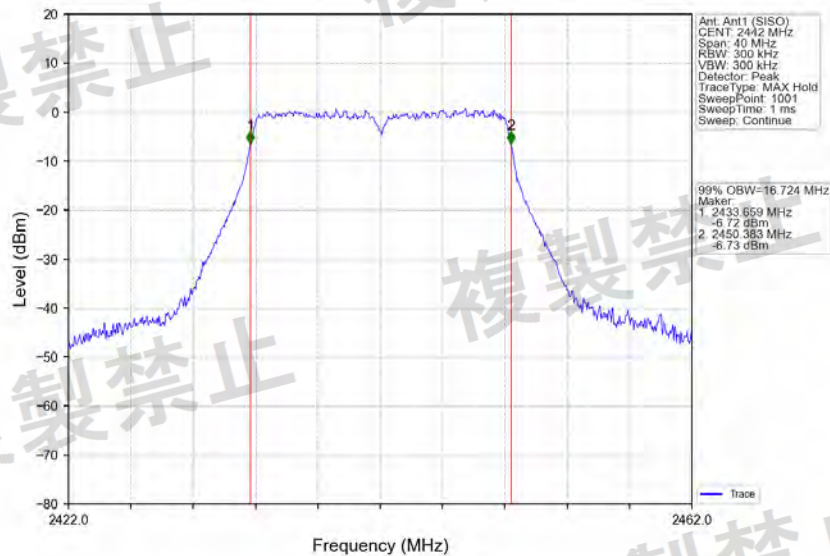
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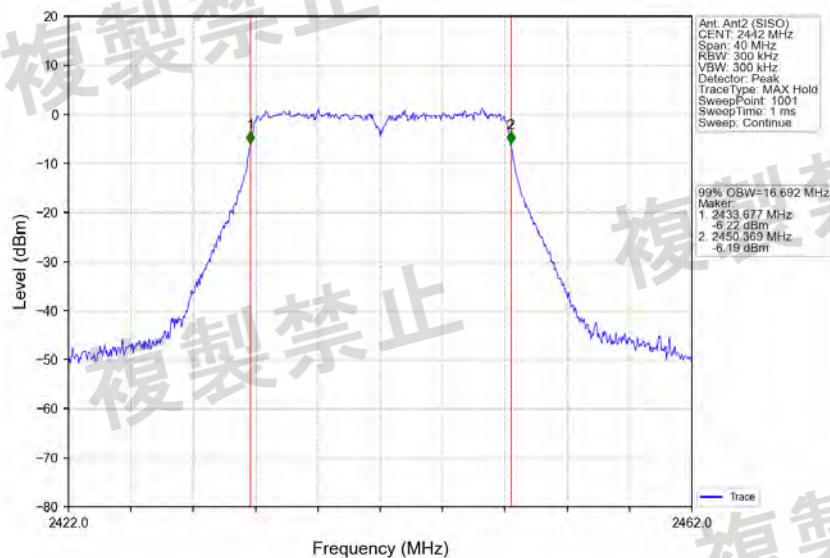
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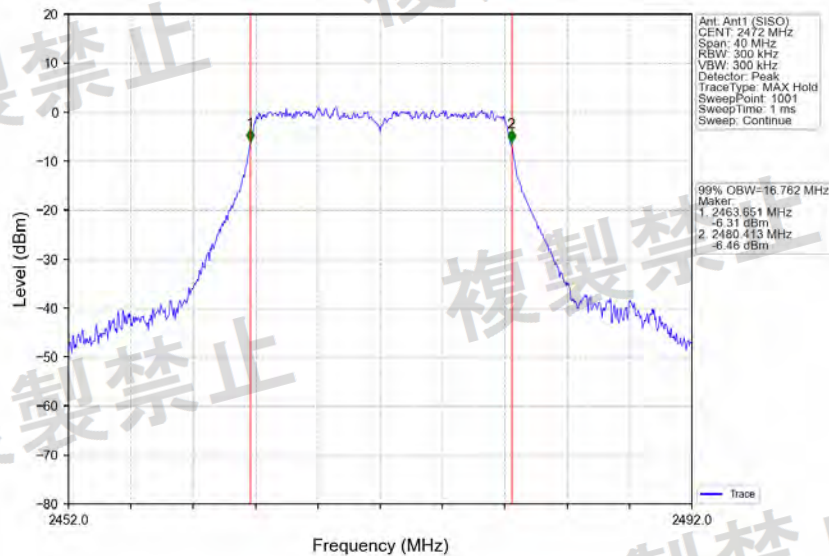
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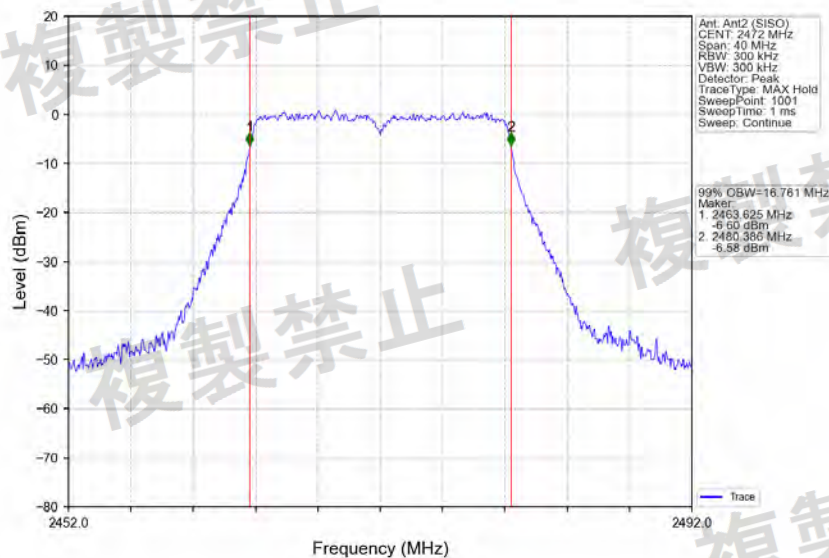
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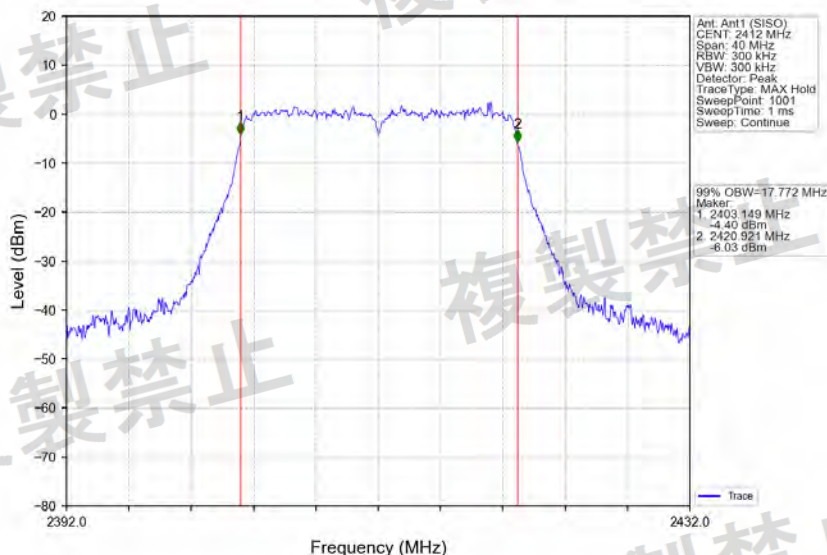
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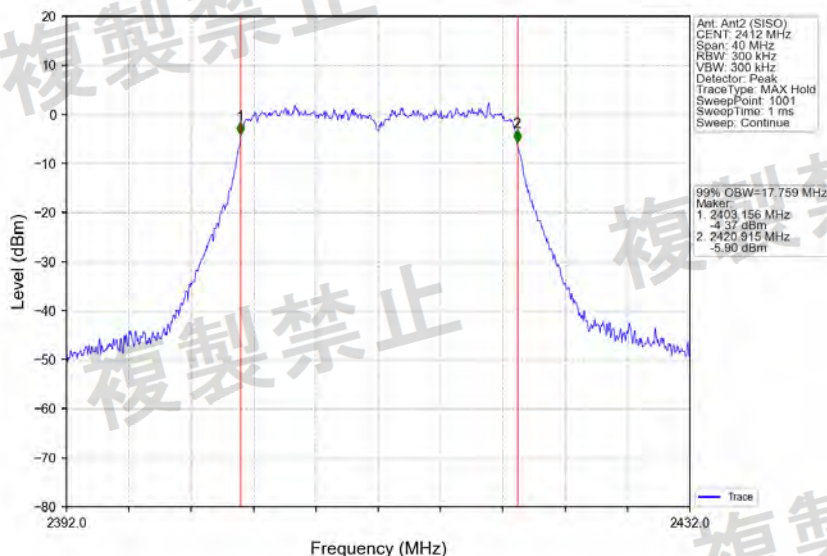
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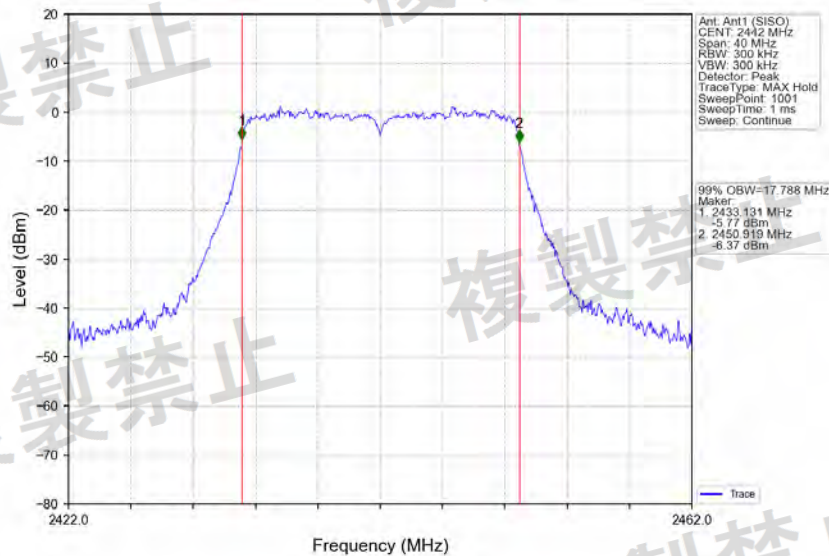
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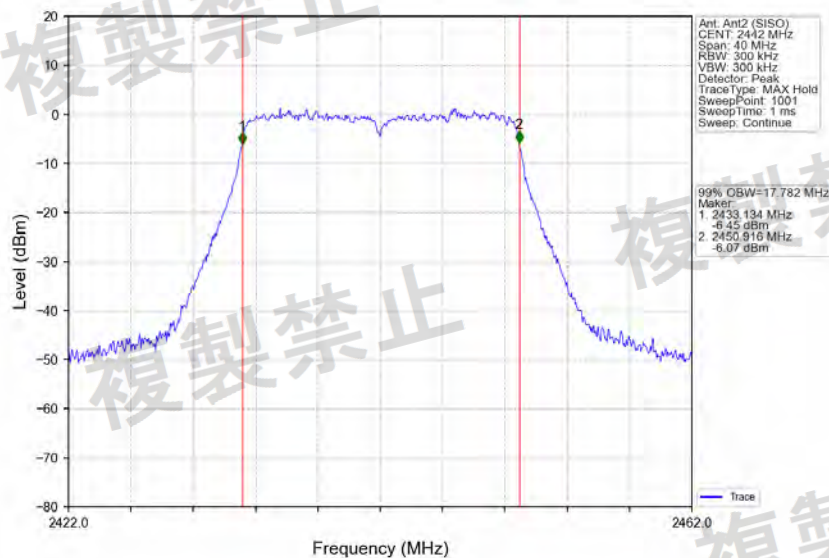
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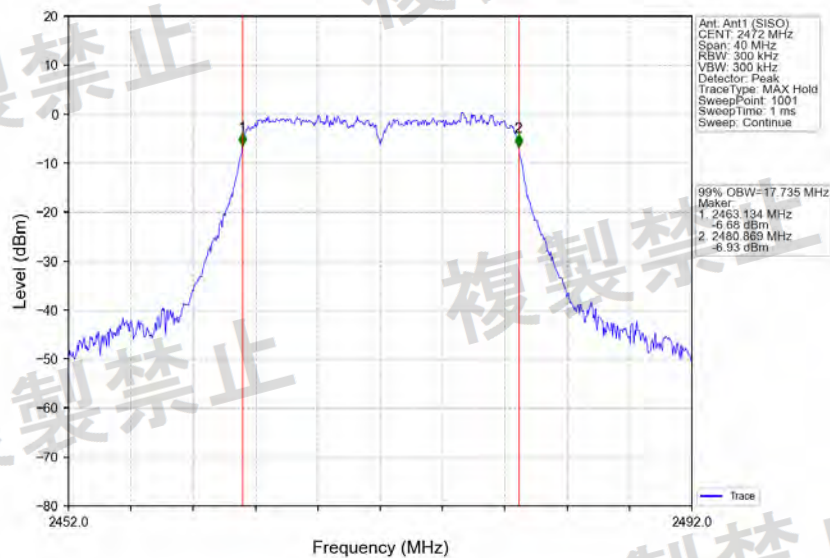
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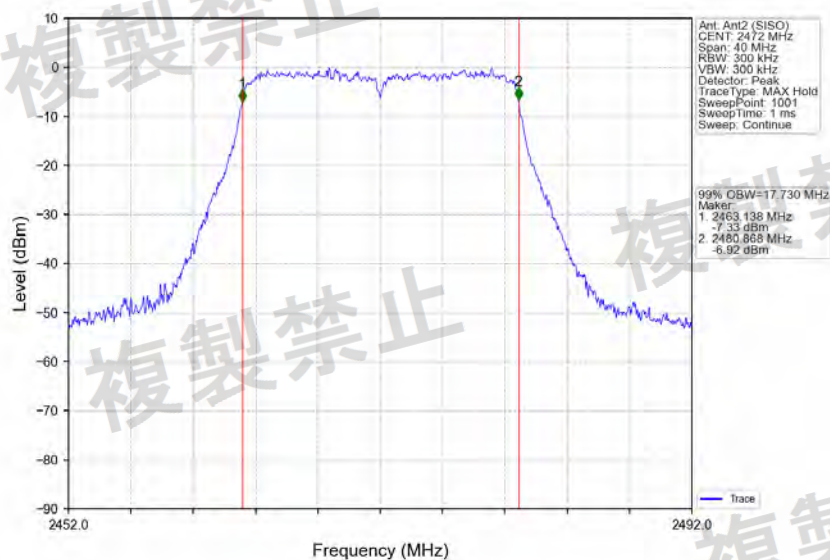
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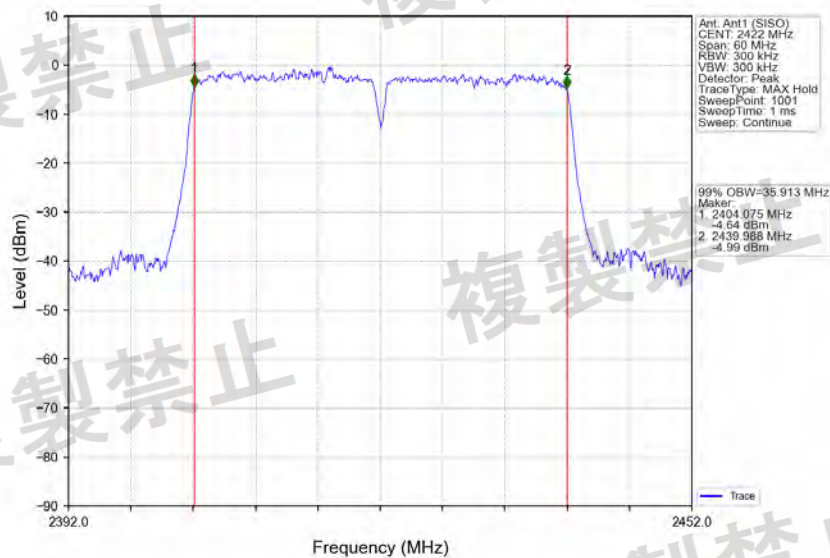
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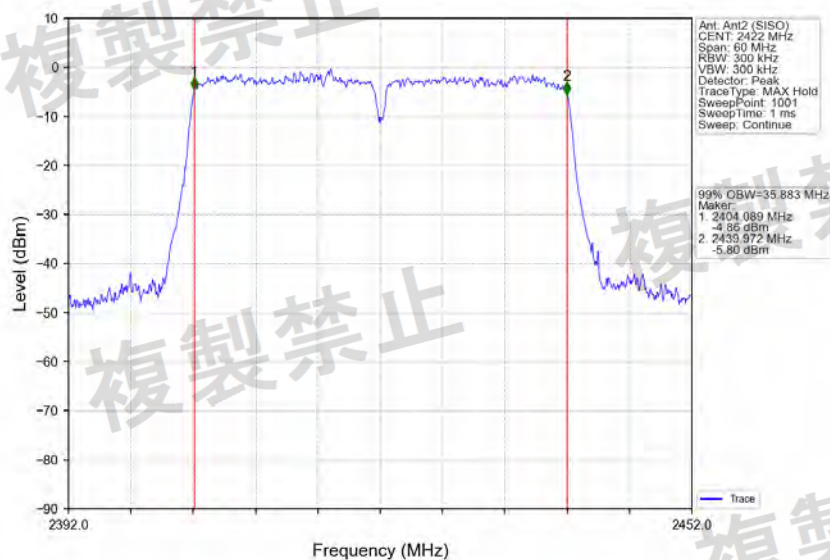
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802.11n(HT40)_2422MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_2422MHz_Ant2 (SISO)_NTNV



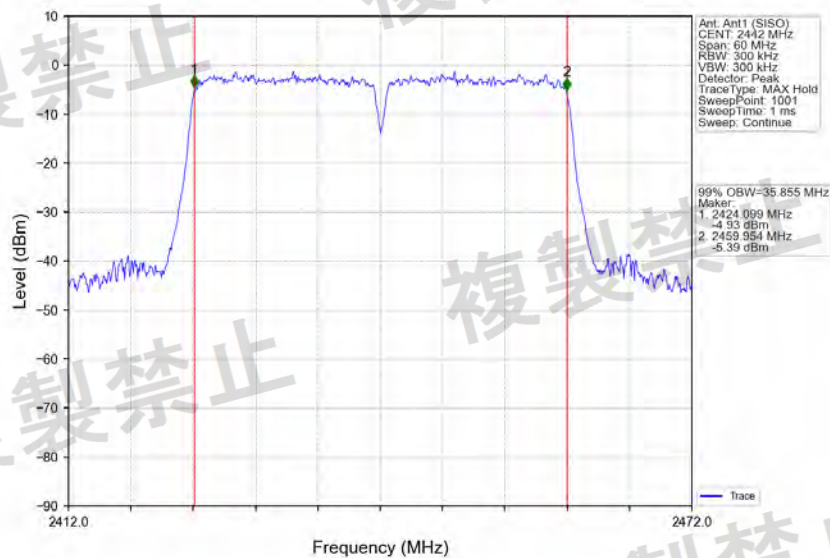
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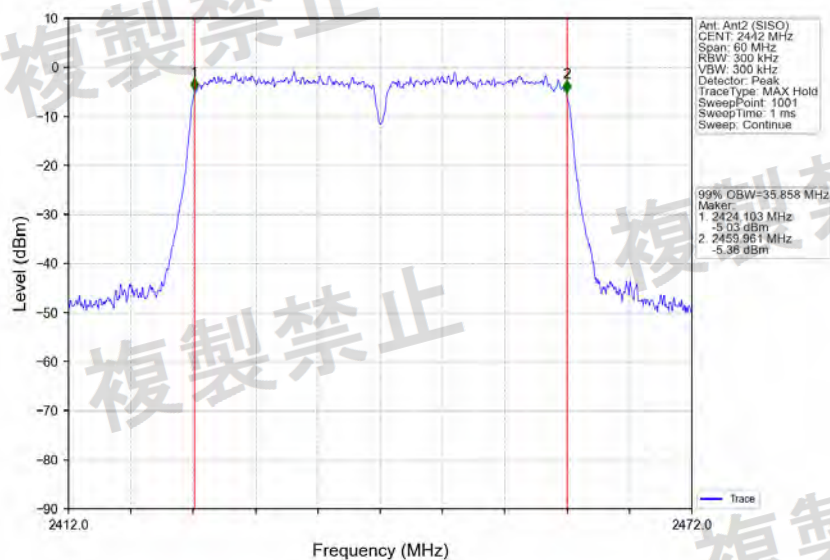
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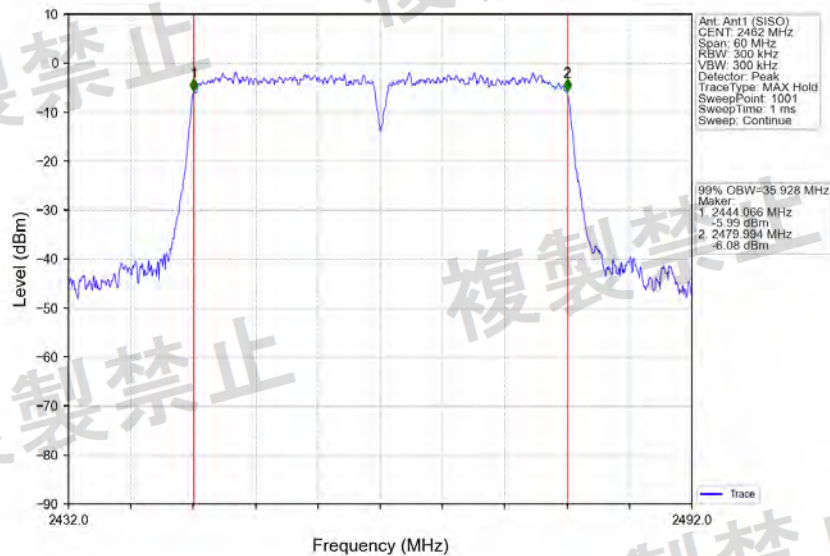
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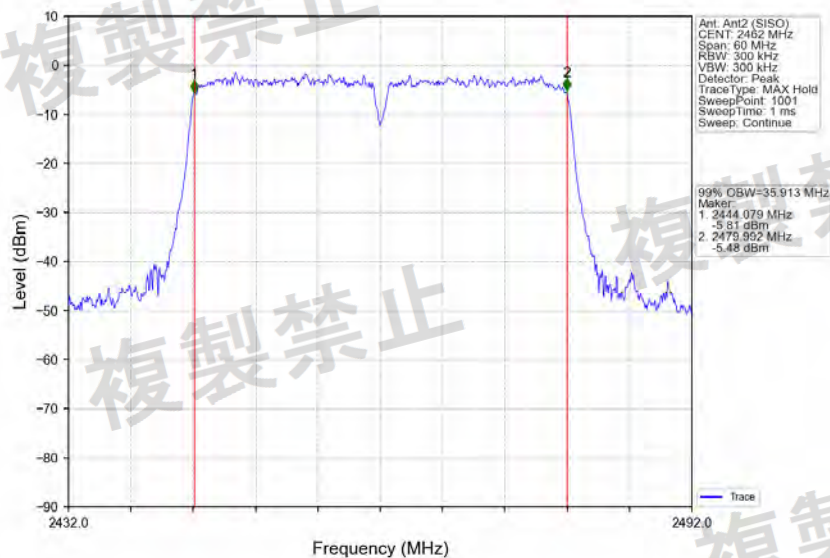
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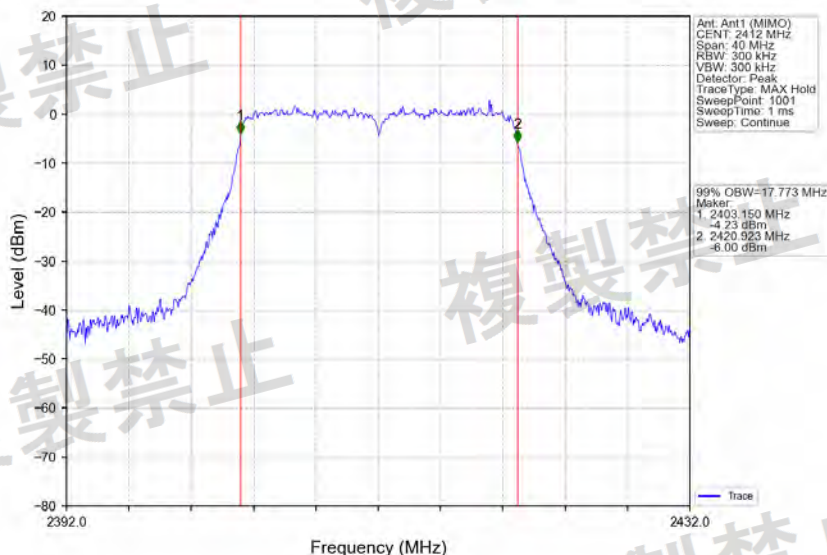
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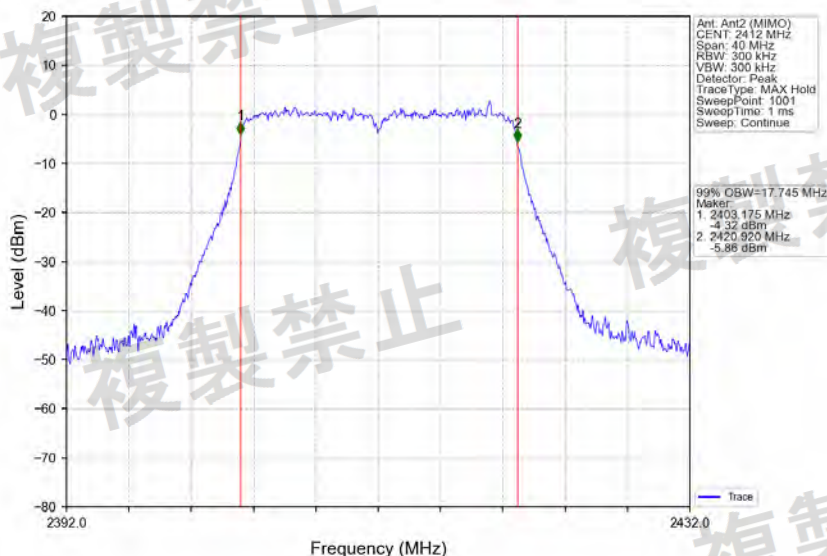
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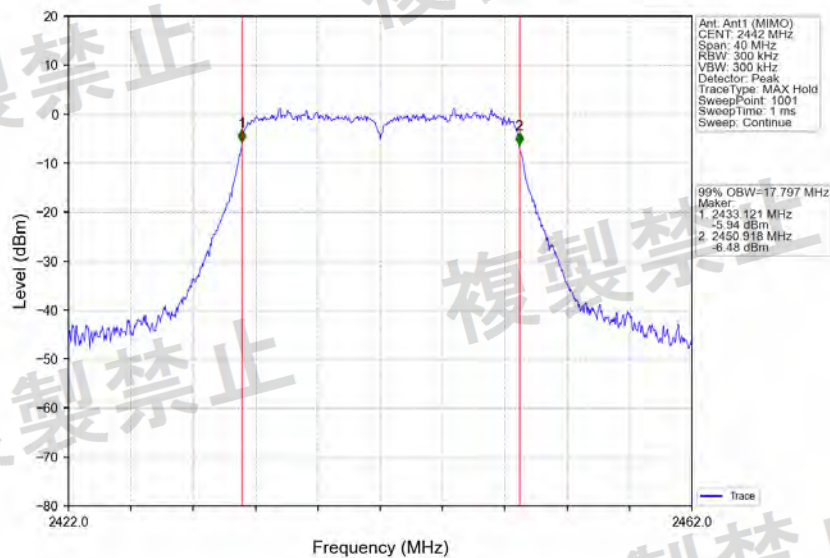
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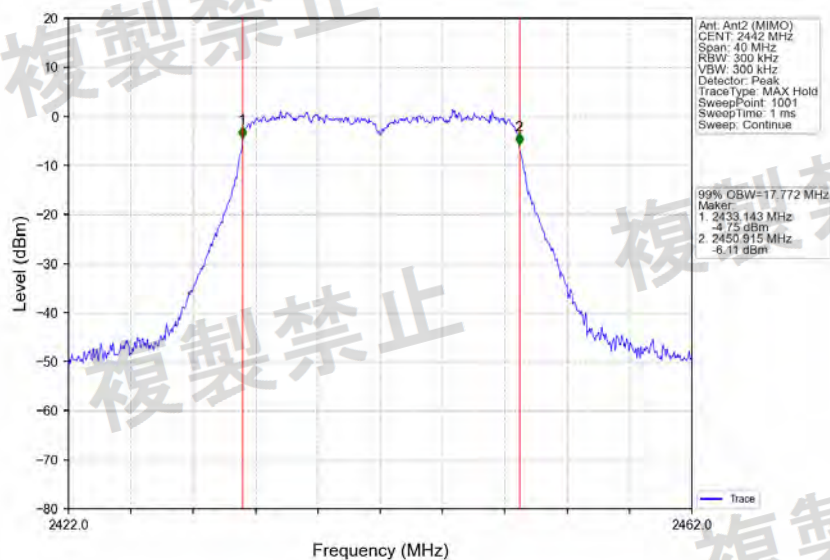
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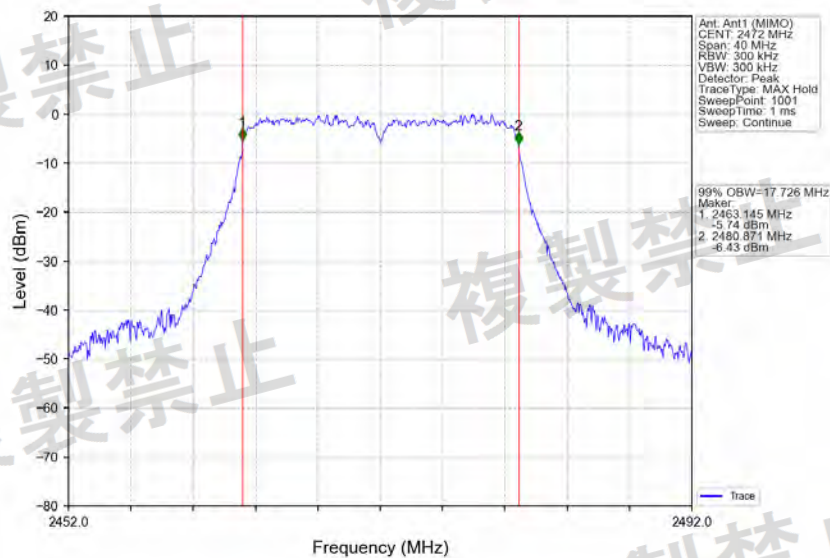
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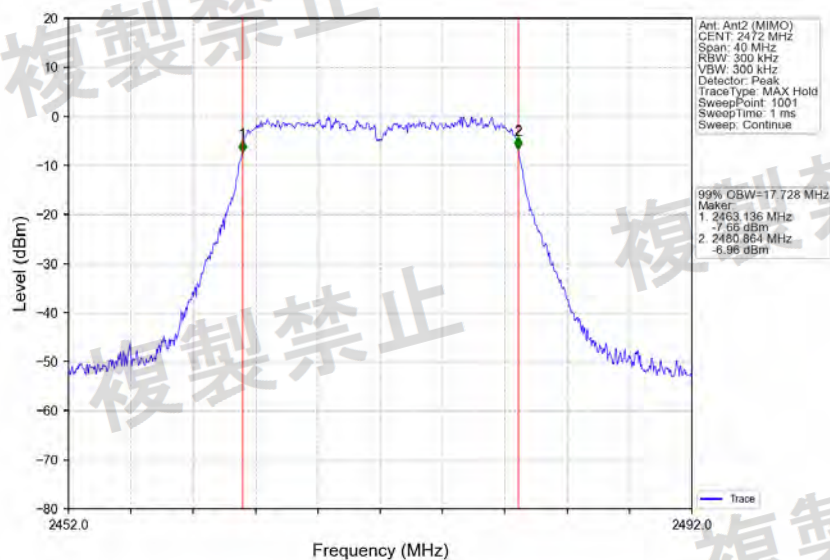
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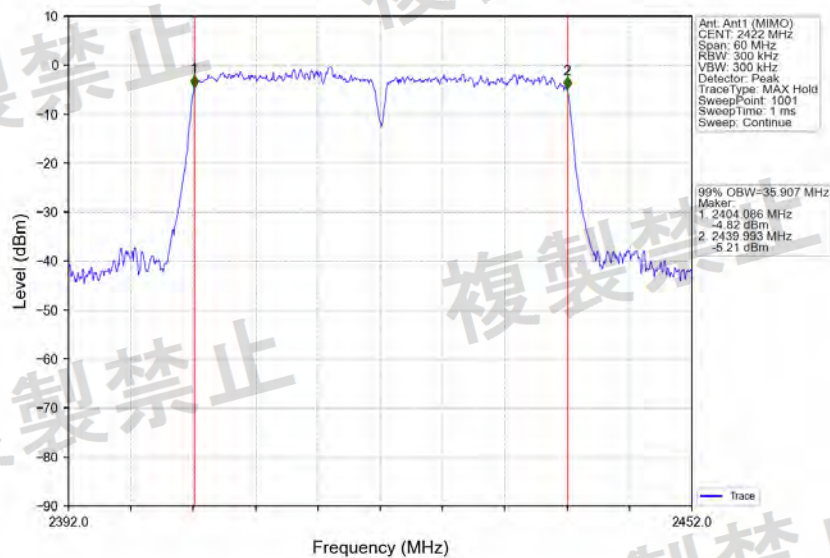
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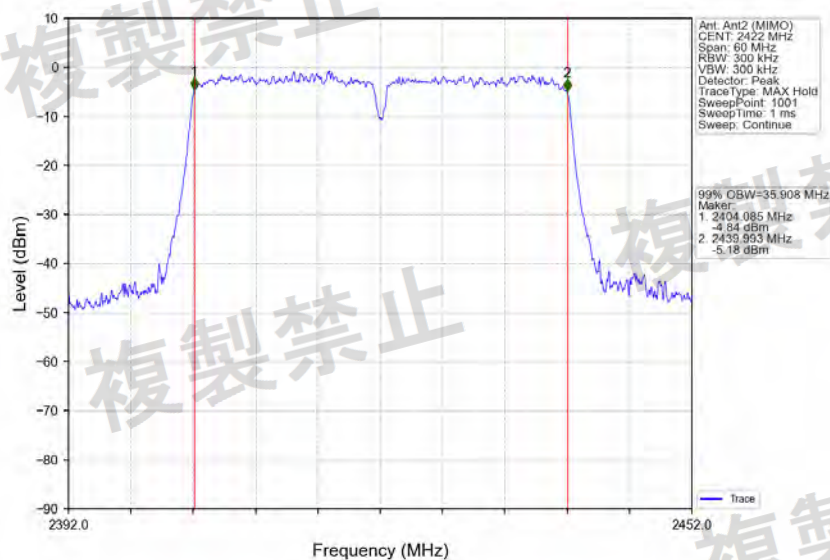
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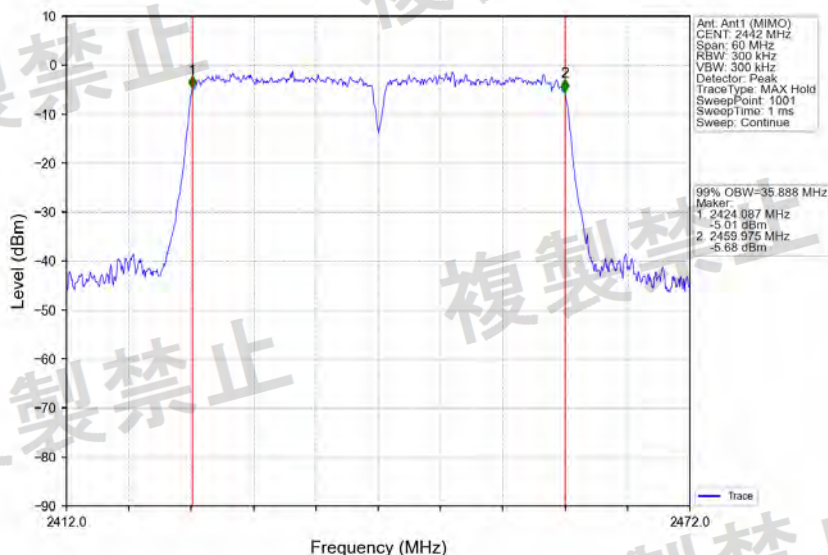
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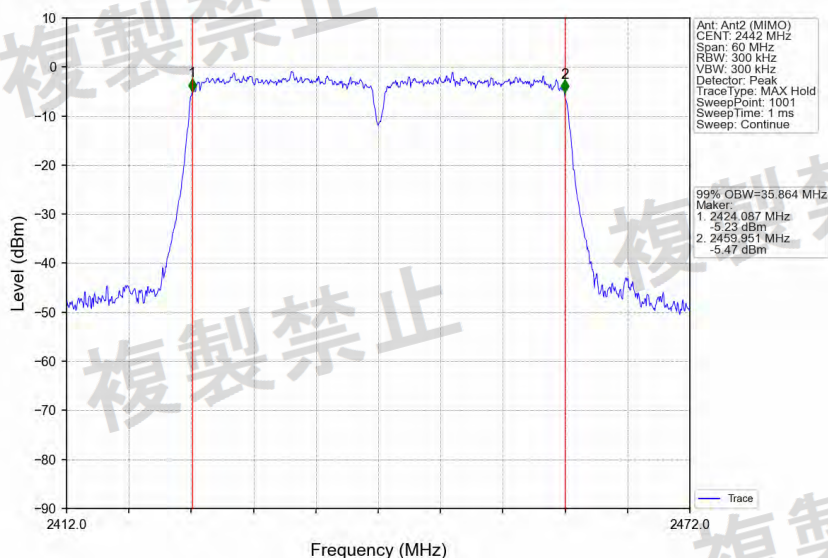
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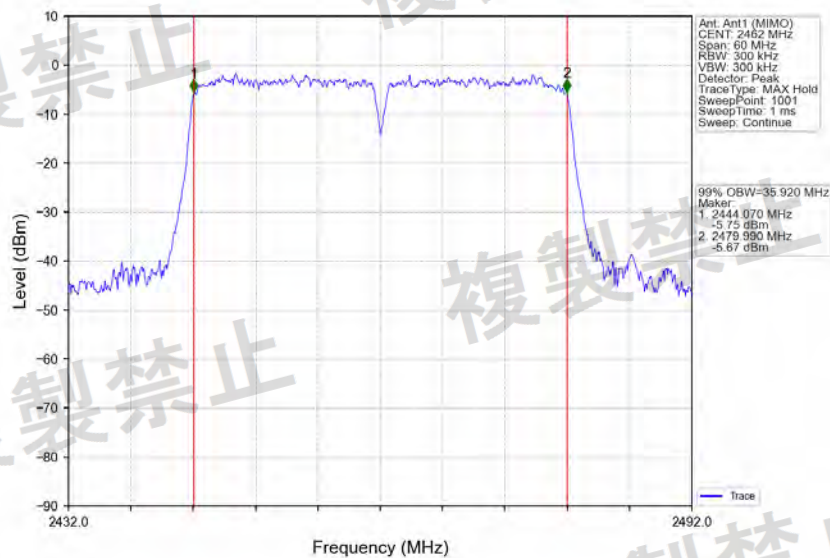
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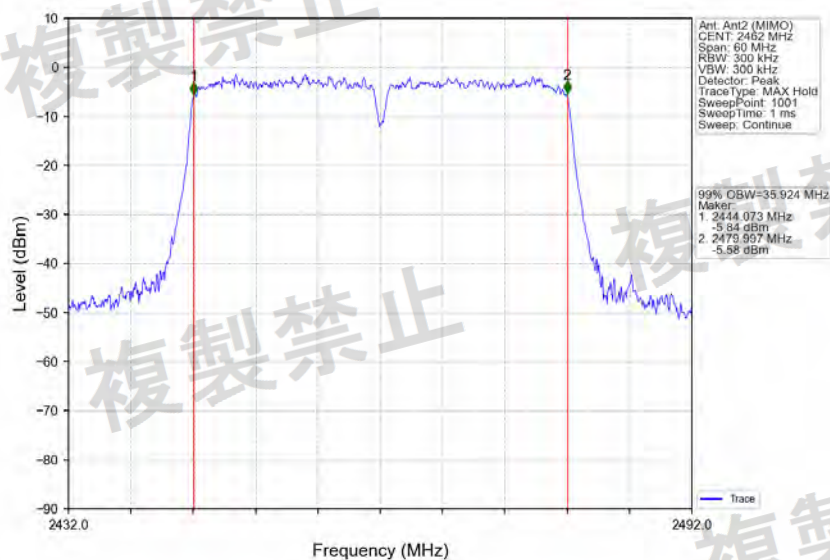
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3. Spread Bandwidth

3.1 SPBW

3.1.1 Test Result

ENV	Mode	TX Type	Frequency (MHz)	Spread Bandwidth (MHz)			Verdict
				ANT1	ANT2	Limit	
NTNV	802.11b	SISO	2412	9.724	9.734	≥ 0.5	Pass
			2442	9.736	9.734	≥ 0.5	Pass
			2472	9.825	9.827	≥ 0.5	Pass



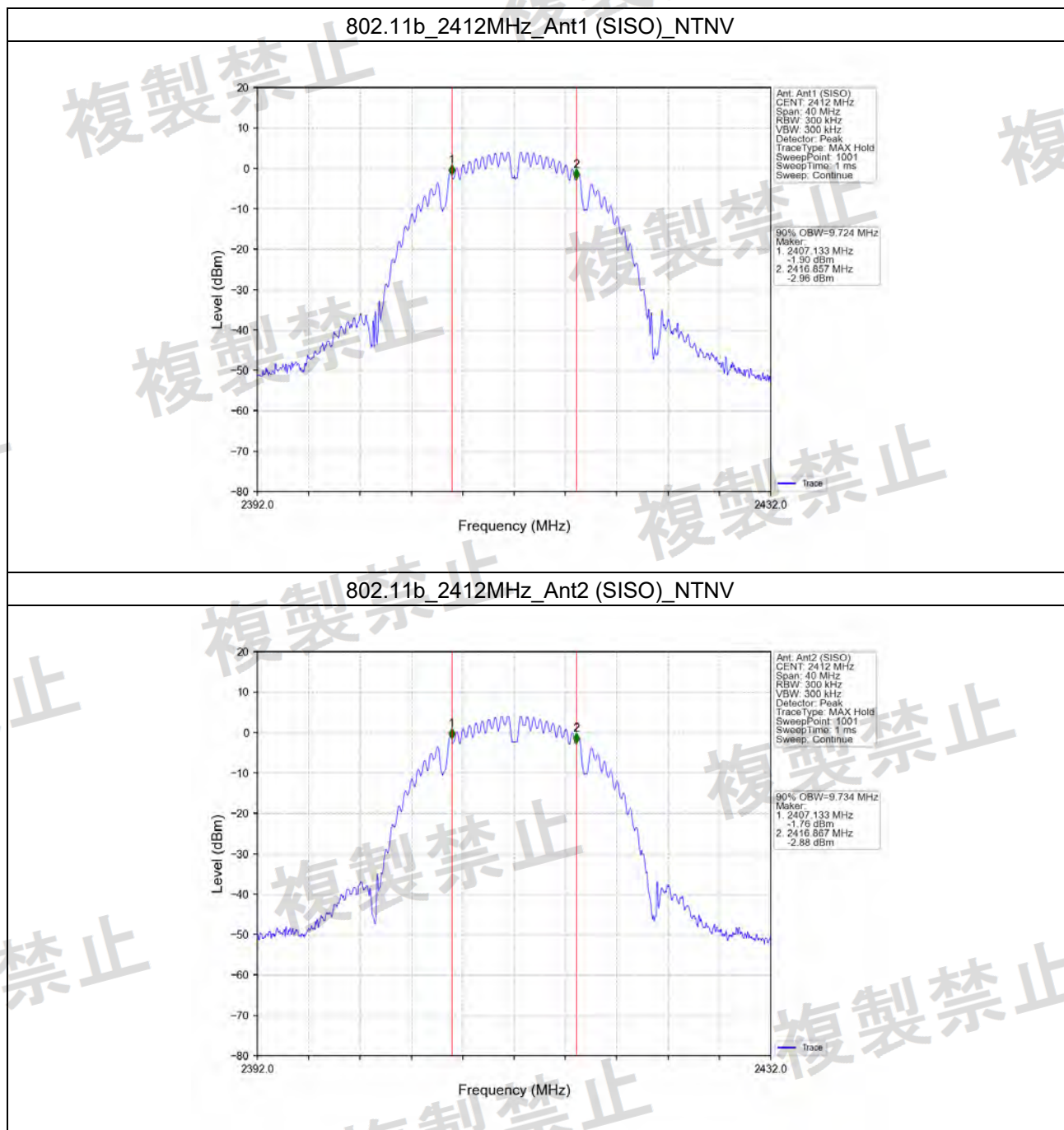
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3.1.2 Test Graph



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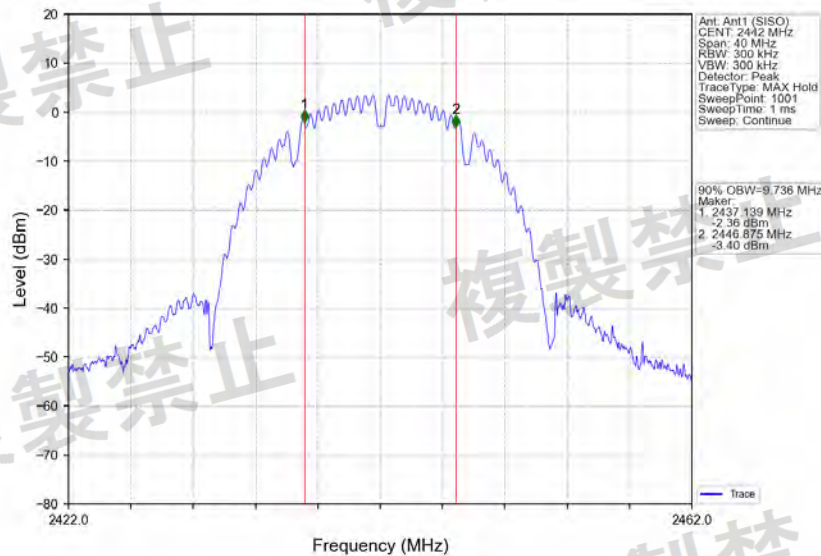
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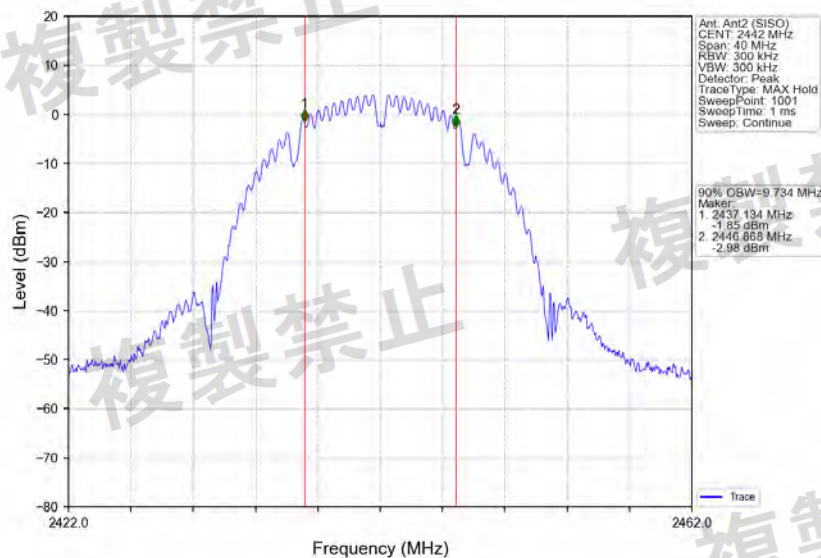
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802.11b_2442MHz_Ant1 (SISO)_NTNV



802.11b_2442MHz_Ant2 (SISO)_NTNV



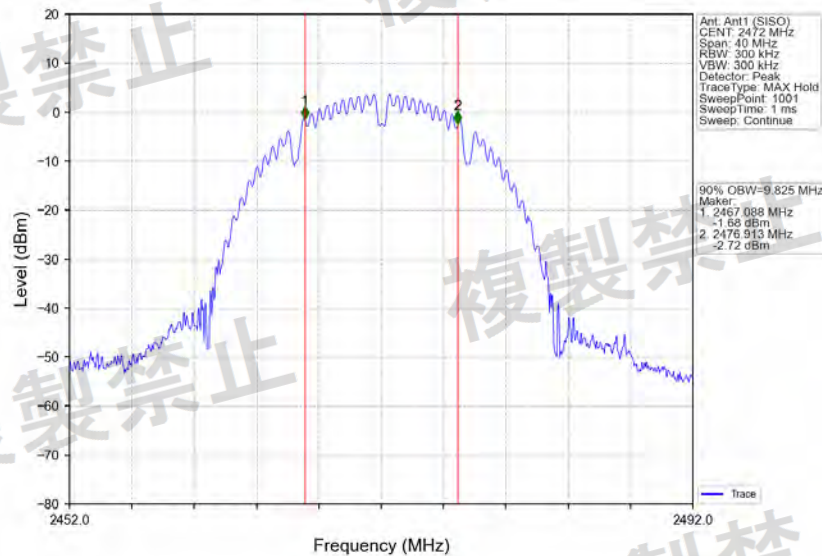
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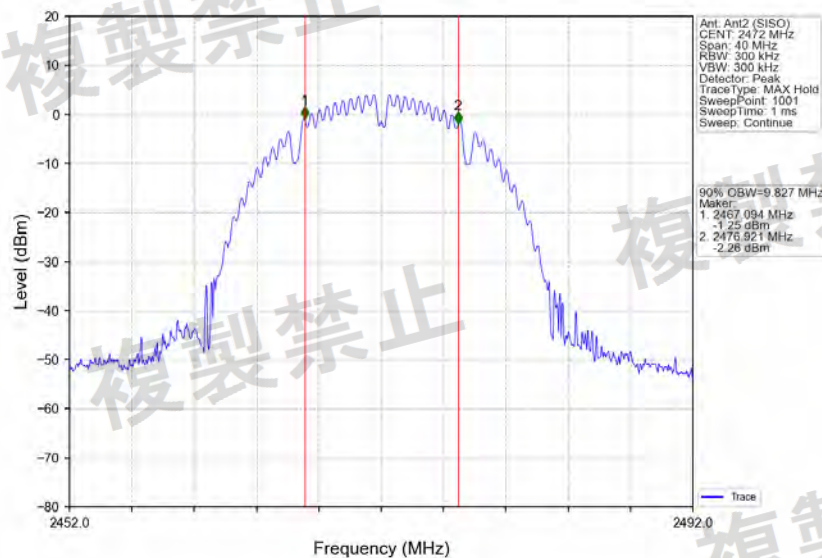
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802.11b_2472MHz_Ant1 (SISO)_NTNV



802.11b_2472MHz_Ant2 (SISO)_NTNV



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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221200244001

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3.2 Spread Factor

3.2.1 Test Result

ENV	Mode	TX Type	Frequency (MHz)	Spread Factor			Verdict
				ANT1	ANT2	Limit	
NTNV	802.11b	SISO	2412	7.070	7.080	>=5	Pass
			2442	7.080	7.080	>=5	Pass
			2472	7.150	7.150	>=5	Pass

4. Antenna Power

4.1 Power

4.1.1 Test Result

ENV	Mode	TX Type	Frequency (MHz)	ANT	Antenna Power (mW/MHz)		Nominal Power (mW/MHz)	Tolerance (%)		Verdict
					Measured	Limit		Measured	Limit	
NTNV	802.11b	SISO	2412	1	1.447	<=10.00	1.400	3.36	-80 to 20	Pass
				2	1.472	<=10.00	1.400	5.14	-80 to 20	Pass
			2442	1	1.296	<=10.00	1.400	-7.43	-80 to 20	Pass
				2	1.439	<=10.00	1.400	2.79	-80 to 20	Pass
			2472	1	1.311	<=10.00	1.400	-6.36	-80 to 20	Pass
				2	1.467	<=10.00	1.400	4.79	-80 to 20	Pass
	802.11g	SISO	2412	1	0.858	<=10.00	0.860	-0.23	-80 to 20	Pass
				2	0.775	<=10.00	0.860	-9.88	-80 to 20	Pass
			2442	1	0.691	<=10.00	0.860	-19.65	-80 to 20	Pass
				2	0.784	<=10.00	0.860	-8.84	-80 to 20	Pass
			2472	1	0.658	<=10.00	0.860	-23.49	-80 to 20	Pass
				2	0.650	<=10.00	0.860	-24.42	-80 to 20	Pass
	802.11n (HT20)	SISO	2412	1	0.780	<=10.00	0.780	0.00	-80 to 20	Pass
				2	0.790	<=10.00	0.780	1.28	-80 to 20	Pass
			2442	1	0.662	<=10.00	0.780	-15.13	-80 to 20	Pass
				2	0.694	<=10.00	0.780	-11.03	-80 to 20	Pass
			2472	1	0.543	<=10.00	0.780	-30.38	-80 to 20	Pass
				2	0.516	<=10.00	0.780	-33.85	-80 to 20	Pass
	802.11n (HT40)	SISO	2422	1	0.405	<=5.00	0.410	-1.22	-80 to 20	Pass
				2	0.397	<=5.00	0.410	-3.17	-80 to 20	Pass



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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221200244001

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			2442	1	0.375	<=5.00	0.410	-8.54	-80 to 20	Pass
				2	0.394	<=5.00	0.410	-3.90	-80 to 20	Pass
			2462	1	0.323	<=5.00	0.410	-21.22	-80 to 20	Pass
				2	0.327	<=5.00	0.410	-20.24	-80 to 20	Pass
	802.11n (HT20)	MIMO	2412	1	0.777	<=10.00	/	/	/	/
				2	0.784	<=10.00	/	/	/	/
				MIMO	1.561	<=10.00	1.800	-13.28	-80 to 20	Pass
			2442	1	0.675	<=10.00	/	/	/	/
				2	0.699	<=10.00	/	/	/	/
				MIMO	1.374	<=10.00	1.800	-23.67	-80 to 20	Pass
			2472	1	0.539	<=10.00	/	/	/	/
				2	0.519	<=10.00	/	/	/	/
				MIMO	1.058	<=10.00	1.800	-41.22	-80 to 20	Pass
	802.11n (HT40)	MIMO	2422	1	0.405	<=5.00	/	/	/	/
				2	0.396	<=5.00	/	/	/	/
				MIMO	0.801	<=5.00	0.930	-13.87	-80 to 20	Pass
			2442	1	0.375	<=5.00	/	/	/	/
				2	0.359	<=5.00	/	/	/	/
				MIMO	0.734	<=5.00	0.930	-21.08	-80 to 20	Pass
			2462	1	0.316	<=5.00	/	/	/	/
				2	0.333	<=5.00	/	/	/	/
				MIMO	0.649	<=5.00	0.930	-30.22	-80 to 20	Pass

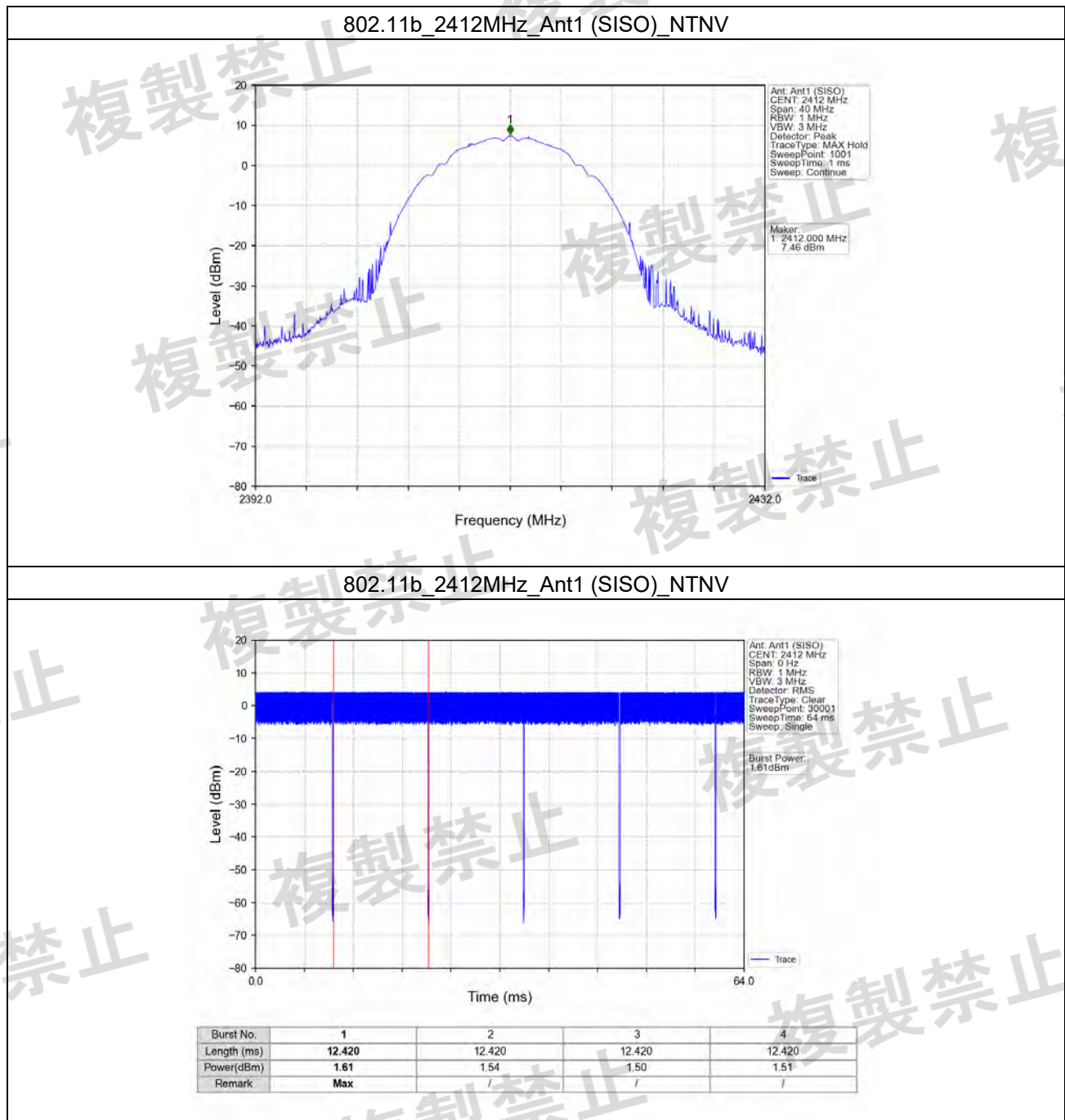
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4.1.2 Test Graph



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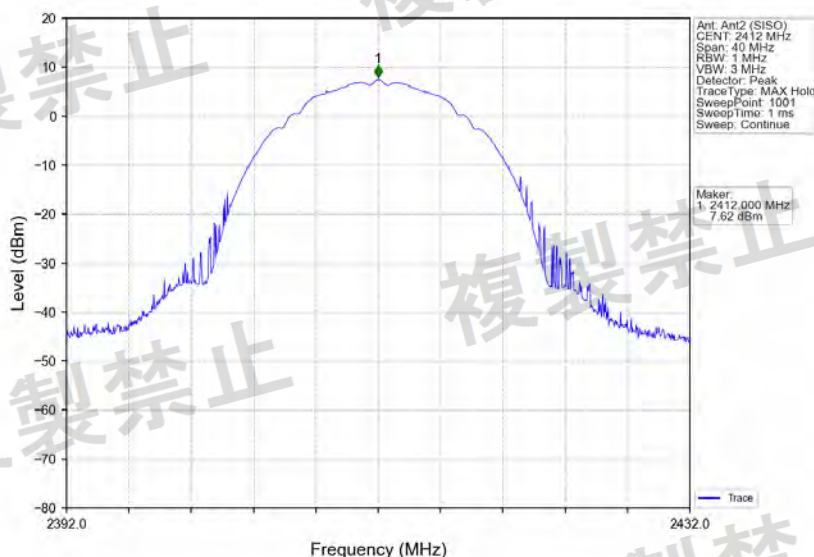
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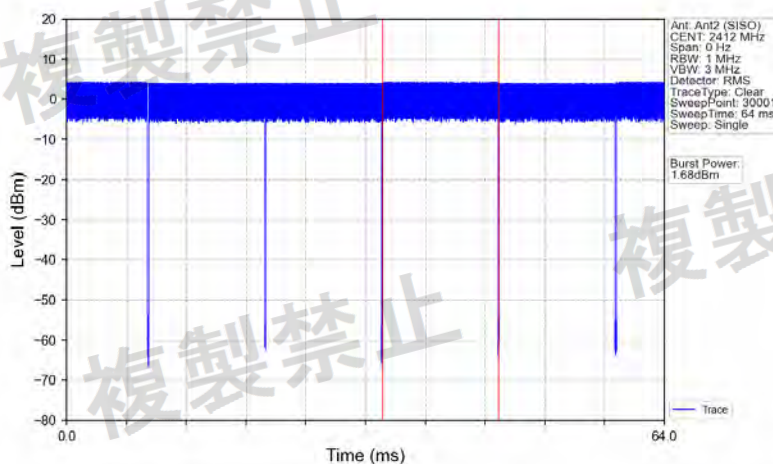
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802.11b_2412MHz_Ant2 (SISO)_NTNV



802.11b_2412MHz_Ant2 (SISO)_NTNV



Burst No.	1	2	3	4
Length (ms)	12.420	12.420	12.422	12.420
Power(dBm)	1.37	1.39	1.68	1.41
Remark	/	/	Max	

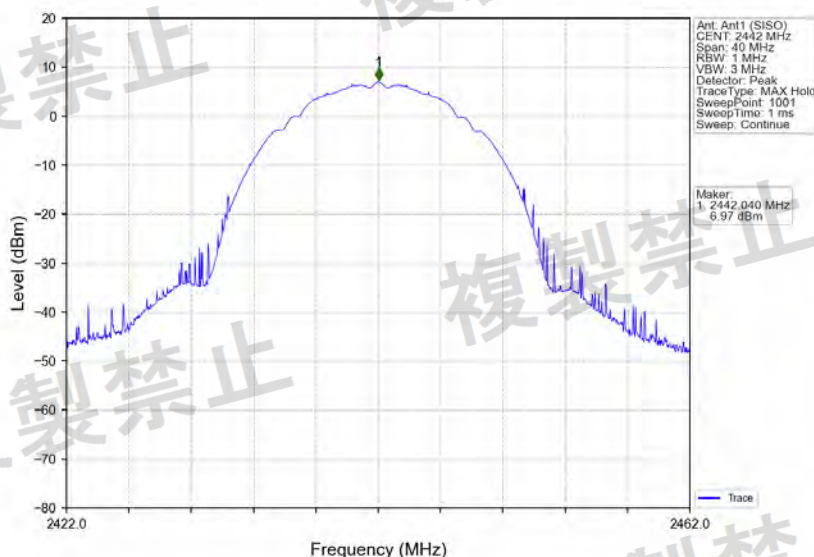
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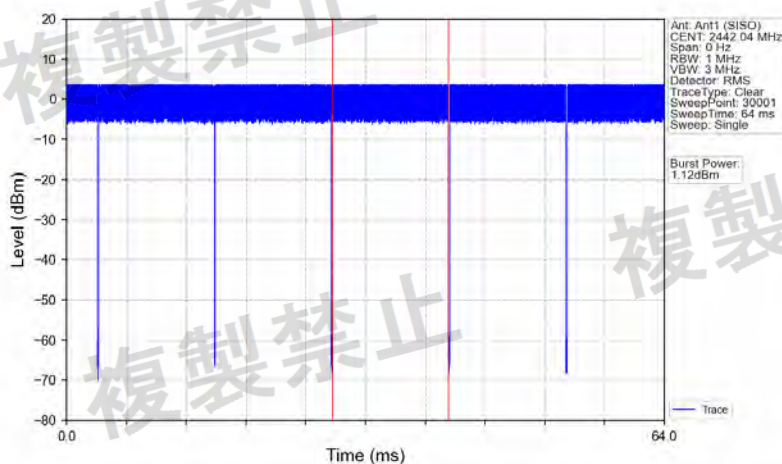
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802.11b_2442MHz_Ant1 (SISO)_NTNV



802.11b_2442MHz_Ant1 (SISO)_NTNV



Burst No.	1	2	3	4
Length (ms)	12.429	12.429	12.429	12.429
Power(dBm)	1.09	1.08	1.12	1.08
Remark	/	/	Max	

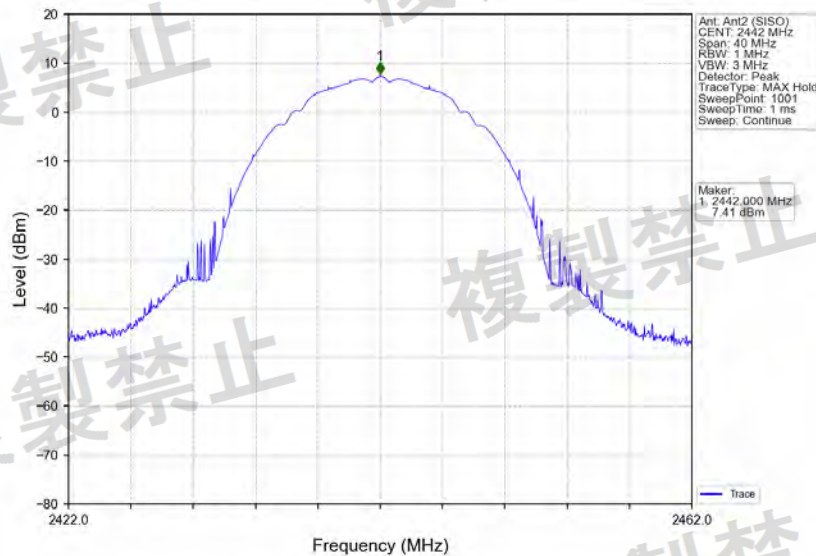
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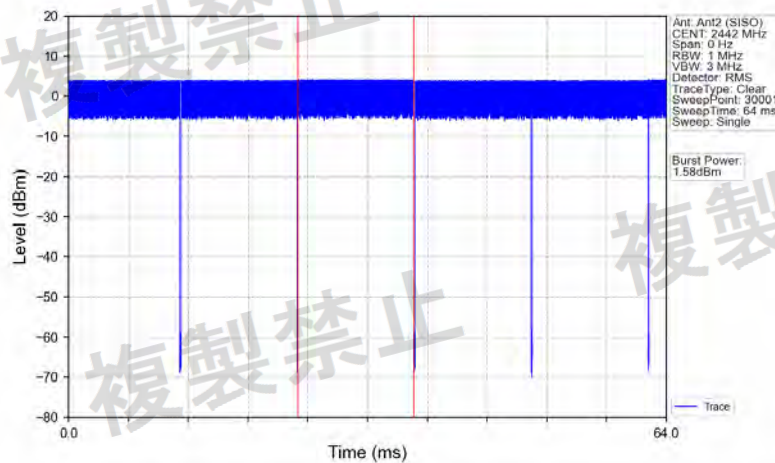
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802.11b_2442MHz_Ant2 (SISO)_NTNV



802.11b_2442MHz_Ant2 (SISO)_NTNV



Burst No.	1	2	3	4
Length (ms)	12.420	12.420	12.420	12.420
Power(dBm)	1.36	1.58	1.30	1.38
Remark	/	Max	/	

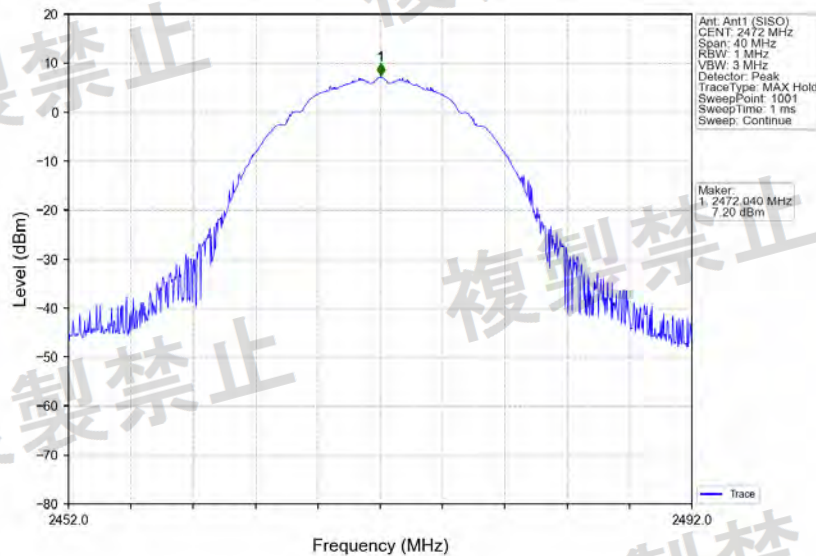
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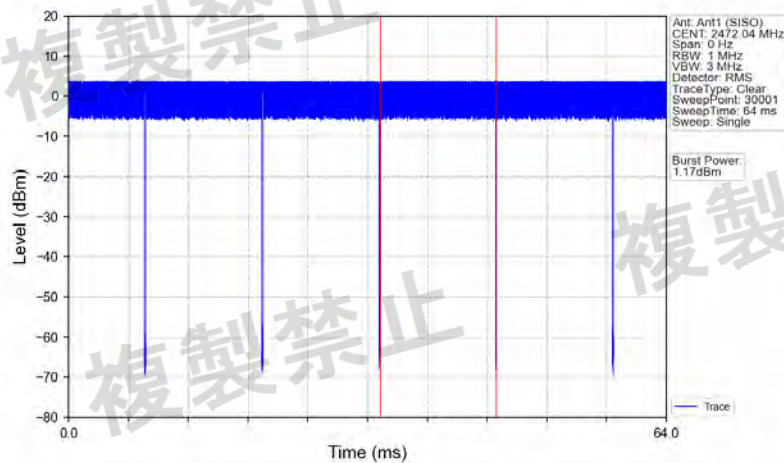
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802.11b_2472MHz_Ant1 (SISO)_NTNV



802.11b_2472MHz_Ant1 (SISO)_NTNV



Burst No.	1	2	3	4
Length (ms)	12.420	12.420	12.420	12.420
Power(dBm)	1.11	1.14	1.17	1.12
Remark	/	/	Max	

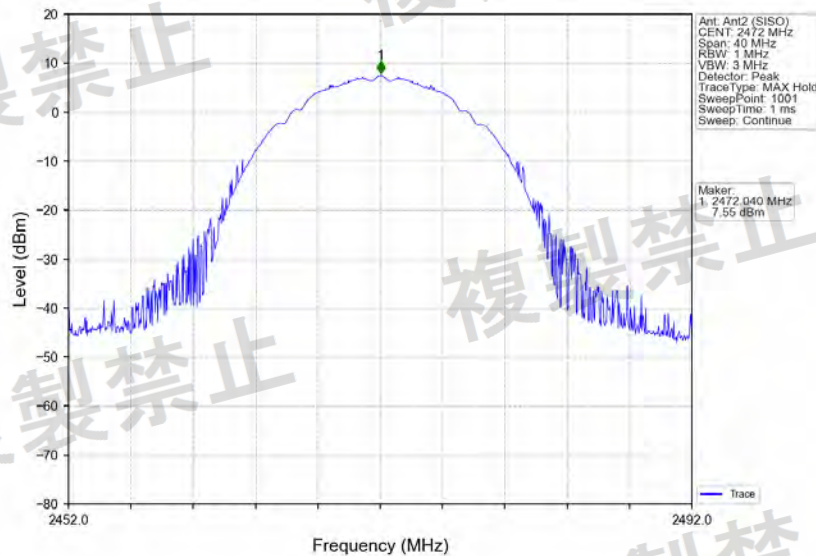
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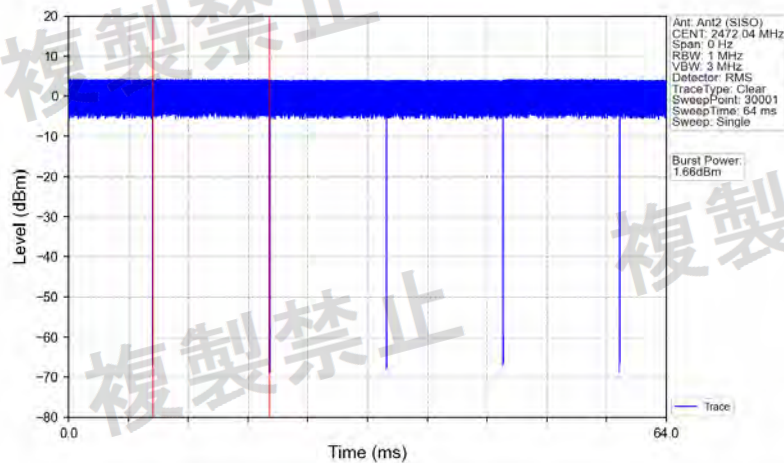
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802.11b_2472MHz_Ant2 (SISO)_NTNV



802.11b_2472MHz_Ant2 (SISO)_NTNV



Burst No.	1	2	3	4
Length (ms)	12.420	12.420	12.420	12.420
Power(dBm)	1.66	1.43	1.50	1.64
Remark	Max	/	/	/

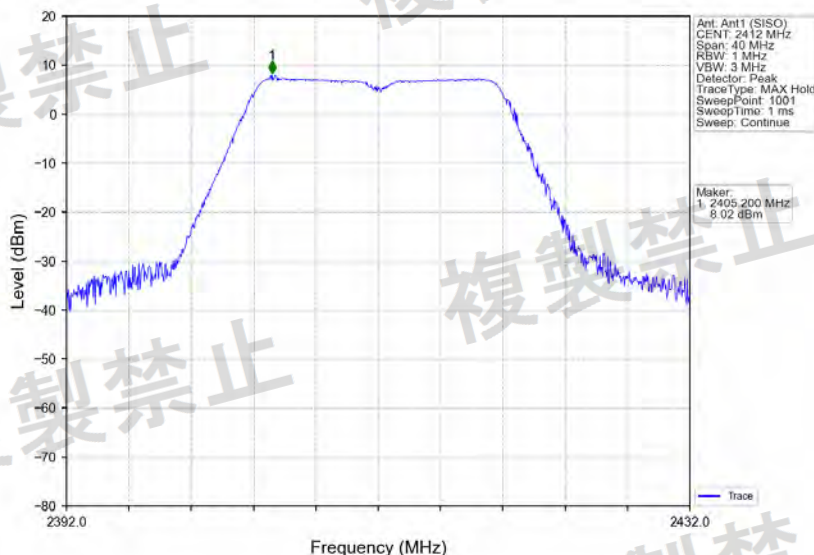
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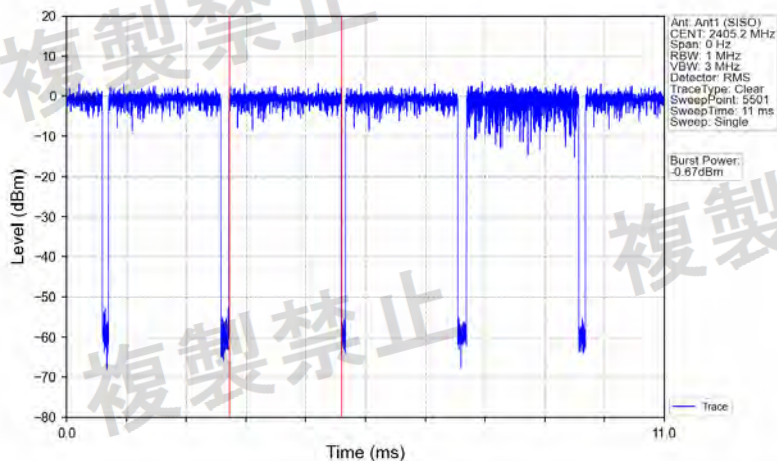
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802.11g_2412MHz_Ant1 (SISO)_NTNV



802.11g_2412MHz_Ant1 (SISO)_NTNV



Burst No.	1	2	3	4
Length (ms)	2.064	2.064	2.064	2.066
Power(dBm)	-0.68	-0.67	-0.79	-0.79
Remark	/	Max	/	/

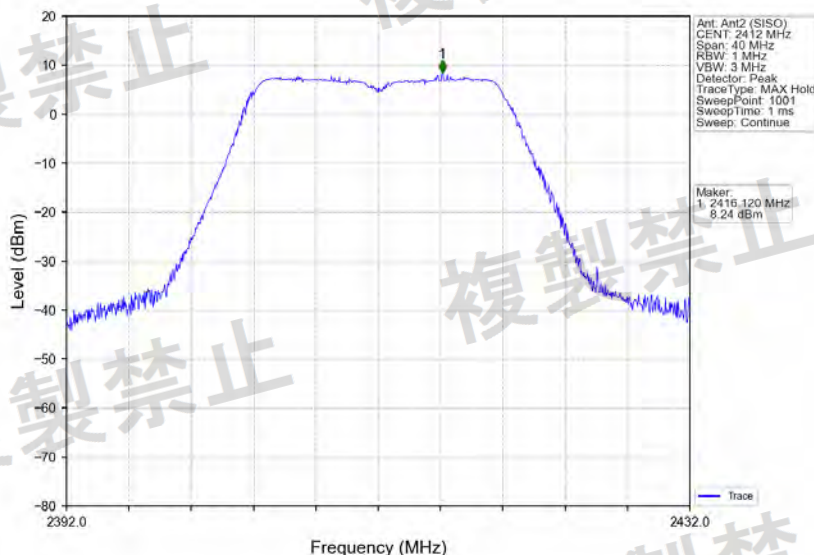
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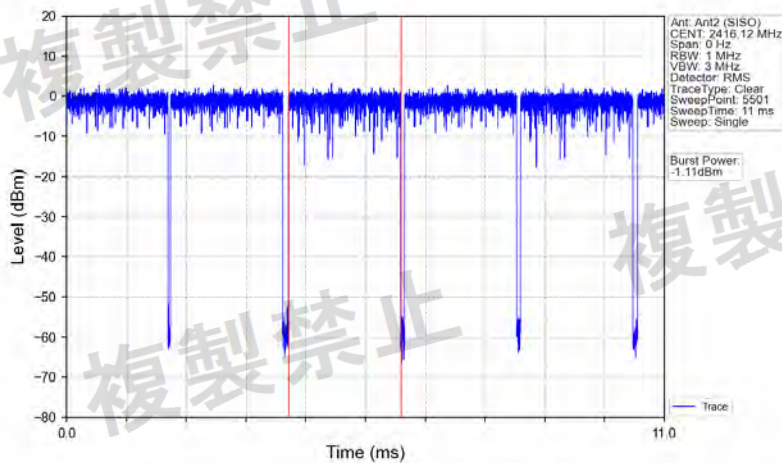
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802.11g_2412MHz_Ant2 (SISO)_NTNV



802.11g_2412MHz_Ant2 (SISO)_NTNV



Burst No.	1	2	3	4
Length (ms)	2.064	2.066	2.064	2.066
Power(dBm)	-1.11	-1.11	-1.20	-1.21
Remark	/	Max	/	

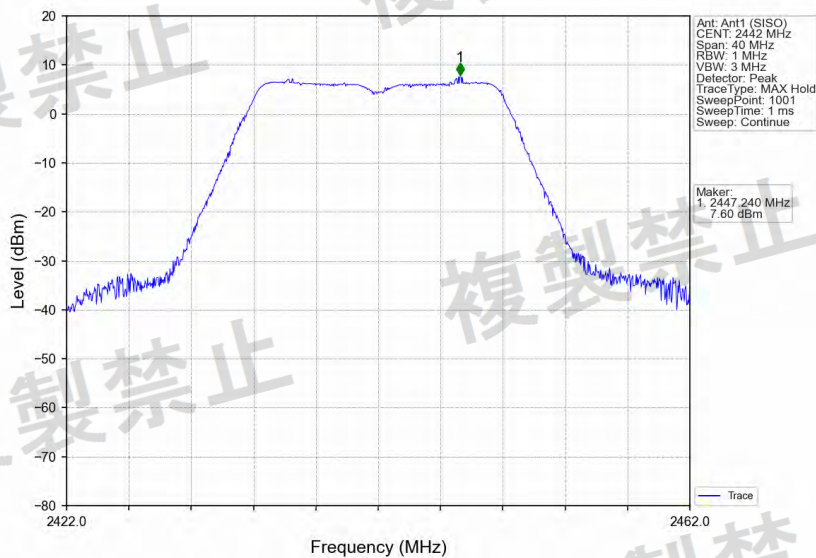
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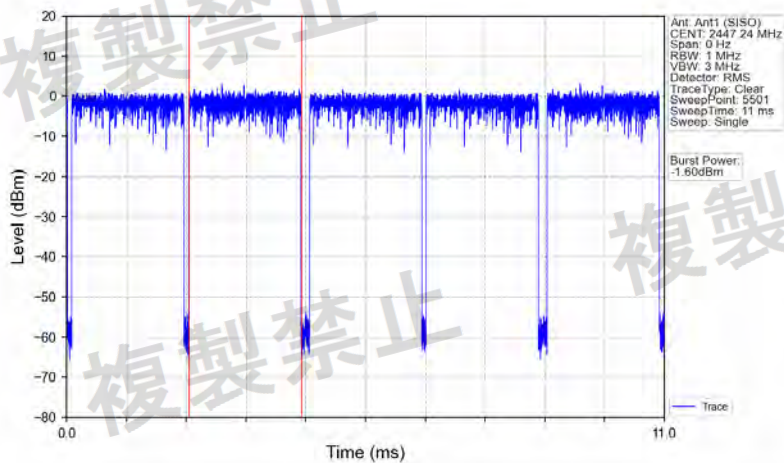
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802.11g_2442MHz_Ant1 (SISO)_NTNV



802.11g_2442MHz_Ant1 (SISO)_NTNV



Burst No.	1	2	3	4	5
Length (ms)	2.066	2.064	2.066	2.066	2.064
Power(dBm)	-1.71	-1.60	-1.71	-1.71	-1.71
Remark	/	Max	/	/	/

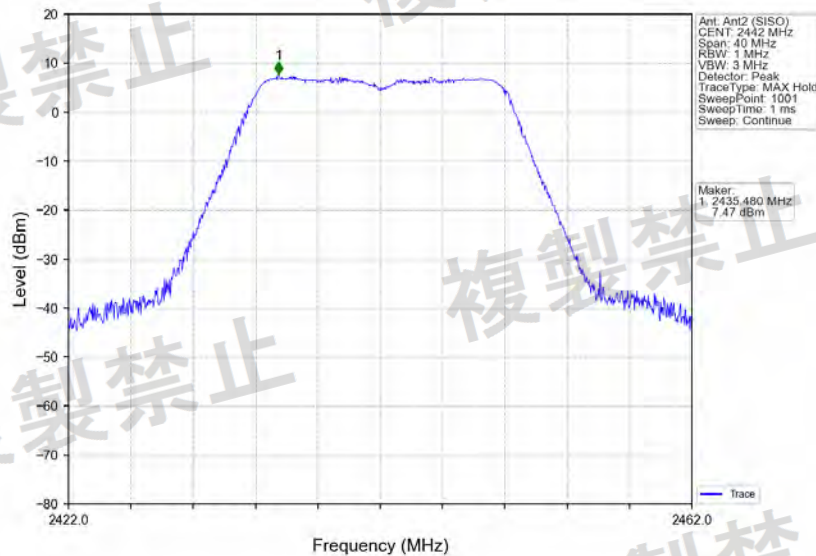
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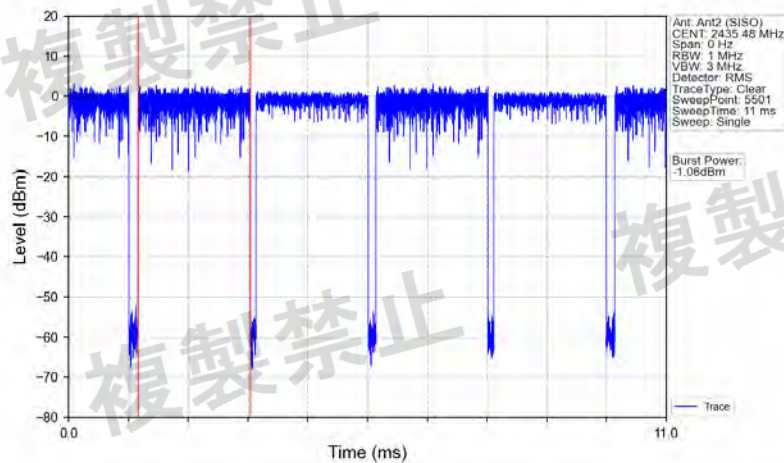
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802.11g_2442MHz_Ant2 (SISO)_NTNV



802.11g_2442MHz_Ant2 (SISO)_NTNV



Burst No.	1	2	3	4
Length (ms)	2.064	2.066	2.064	2.066
Power (dBm)	-1.06	-1.07	-1.06	-1.18
Remark	Max	/	/	/

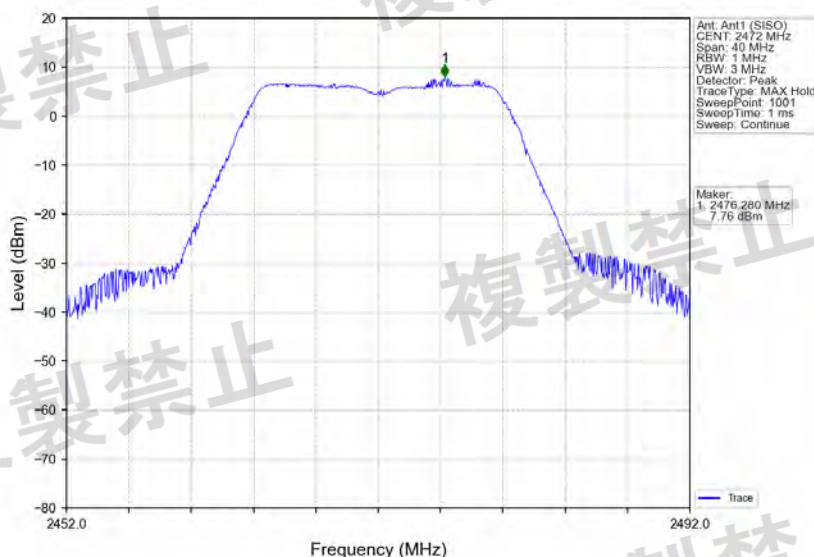
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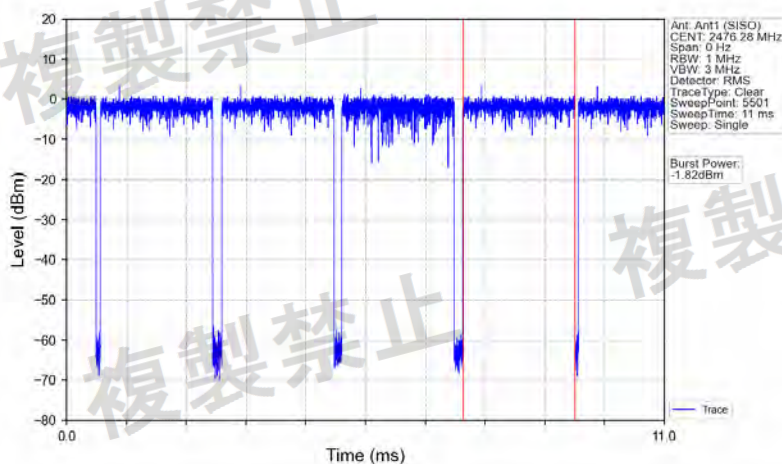
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802.11g_2472MHz_Ant1 (SISO)_NTNV



802.11g_2472MHz_Ant1 (SISO)_NTNV



Burst No.	1	2	3	4
Length (ms)	2.064	2.064	2.066	2.064
Power(dBm)	-1.91	-1.82	-1.82	-1.82
Remark	/	/	/	Max

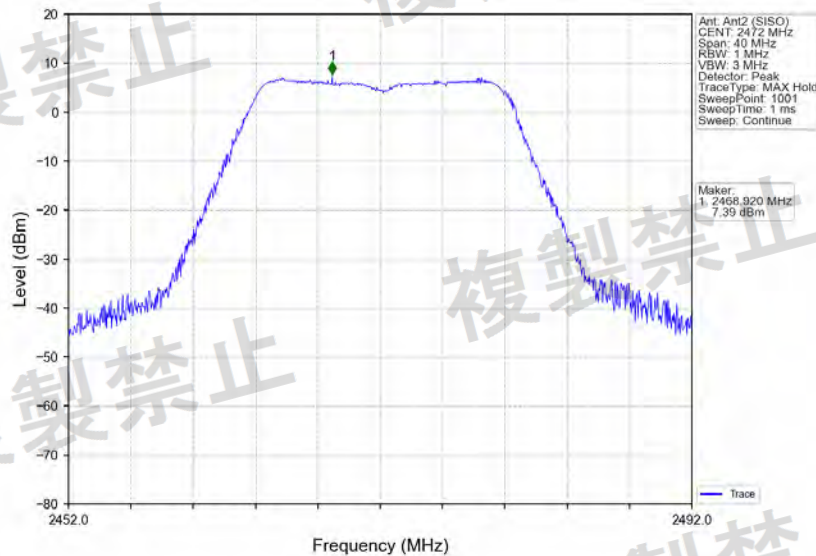
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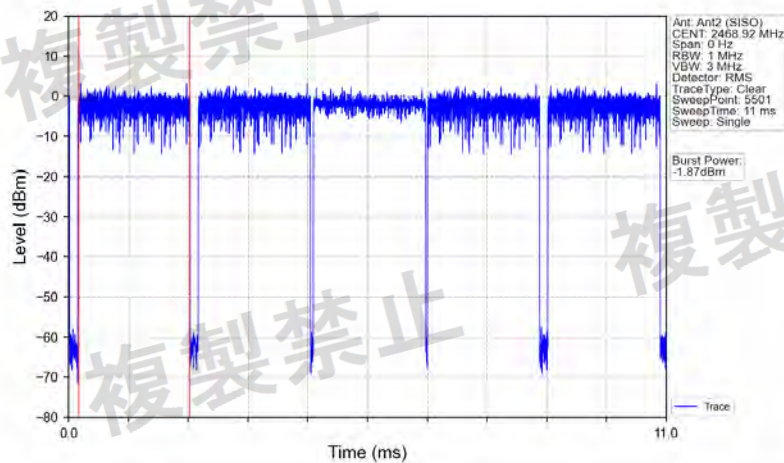
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802.11g_2472MHz_Ant2 (SISO)_NTNV



802.11g_2472MHz_Ant2 (SISO)_NTNV



Burst No.	1	2	3	4	5
Length (ms)	2.038	2.038	2.040	2.038	2.038
Power(dBm)	-1.87	-1.87	-1.88	-2.03	-1.87
Remark	Max	/	/	/	/

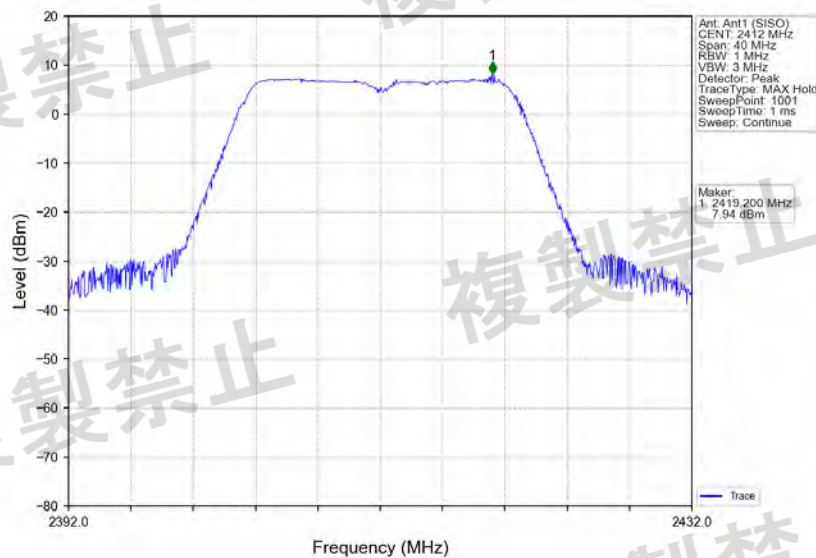
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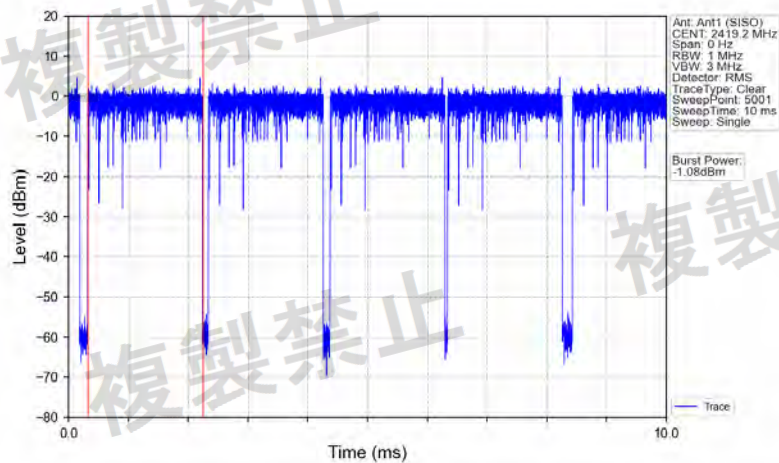
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802.11n(HT20)_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_2412MHz_Ant1 (SISO)_NTNV



Burst No.	1	2	3	4
Length (ms)	1.922	1.922	1.922	1.922
Power(dBm)	-1.08	-1.10	-1.10	-1.11
Remark	Max	/	/	/

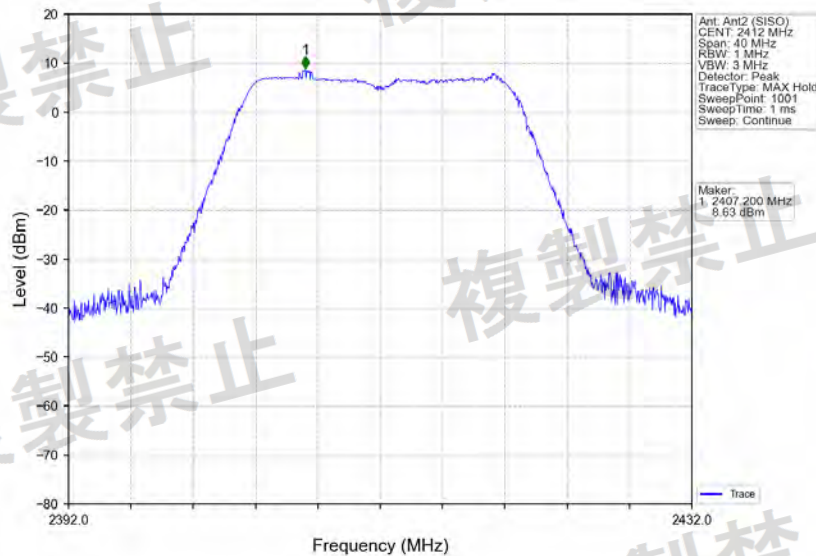
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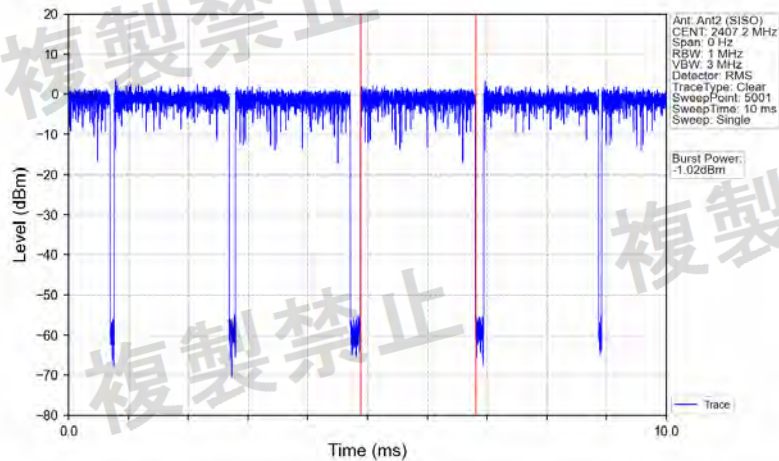
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802.11n(HT20)_2412MHz_Ant2 (SISO)_NTNV



802.11n(HT20)_2412MHz_Ant2 (SISO)_NTNV



Burst No.	1	2	3	4
Length (ms)	1.920	1.922	1.922	1.920
Power(dBm)	-1.03	-1.31	-1.02	-1.29
Remark	/	/	Max	

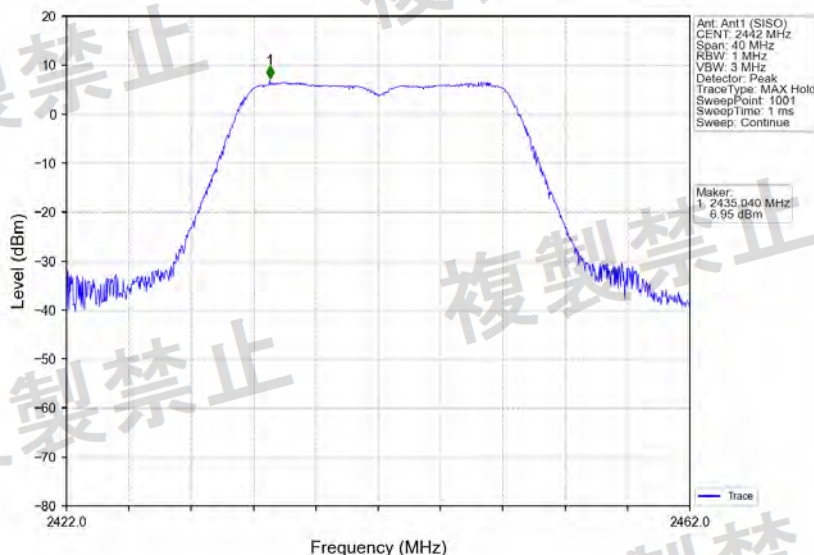
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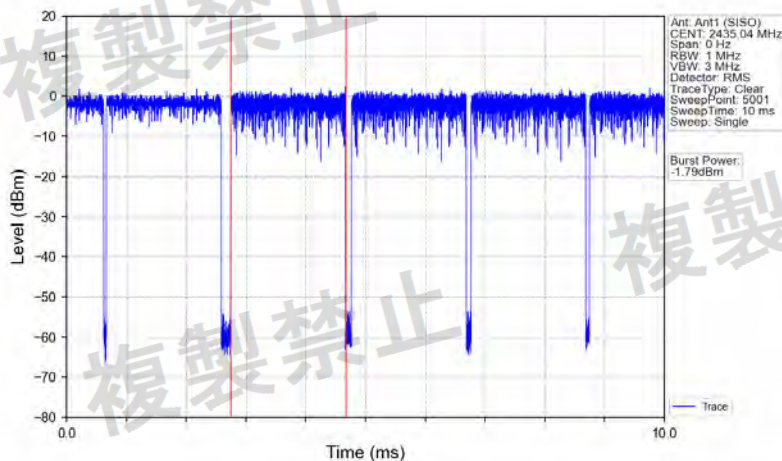
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802.11n(HT20)_2442MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_2442MHz_Ant1 (SISO)_NTNV



Burst No.	1	2	3	4
Length (ms)	1.920	1.922	1.922	1.922
Power(dBm)	-1.81	-1.79	-1.81	-1.80
Remark	/	Max	/	/

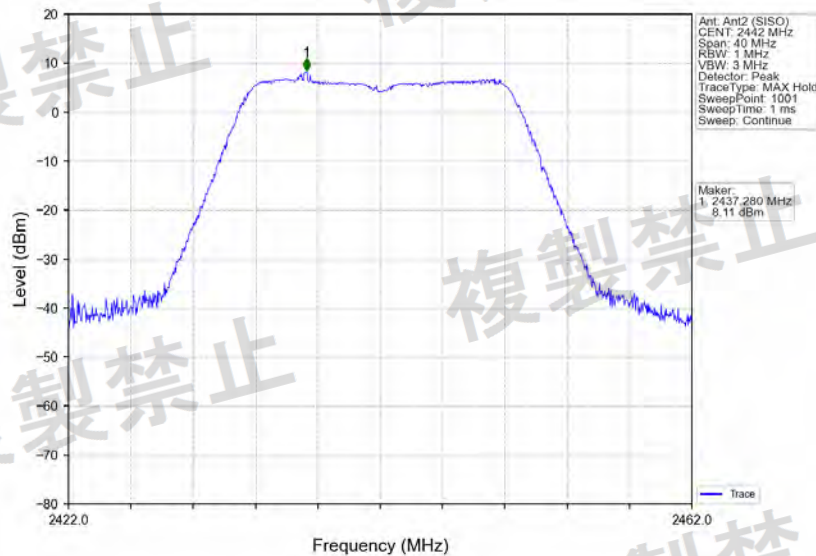
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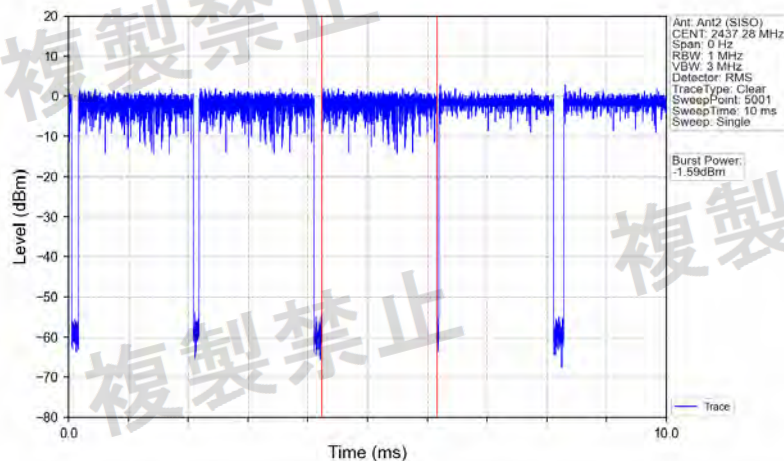
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802.11n(HT20)_2442MHz_Ant2 (SISO)_NTNV



802.11n(HT20)_2442MHz_Ant2 (SISO)_NTNV



Burst No.	1	2	3	4
Length (ms)	1.930	1.930	1.930	1.928
Power(dBm)	-1.82	-1.59	-1.59	-1.59
Remark	/	/	Max	

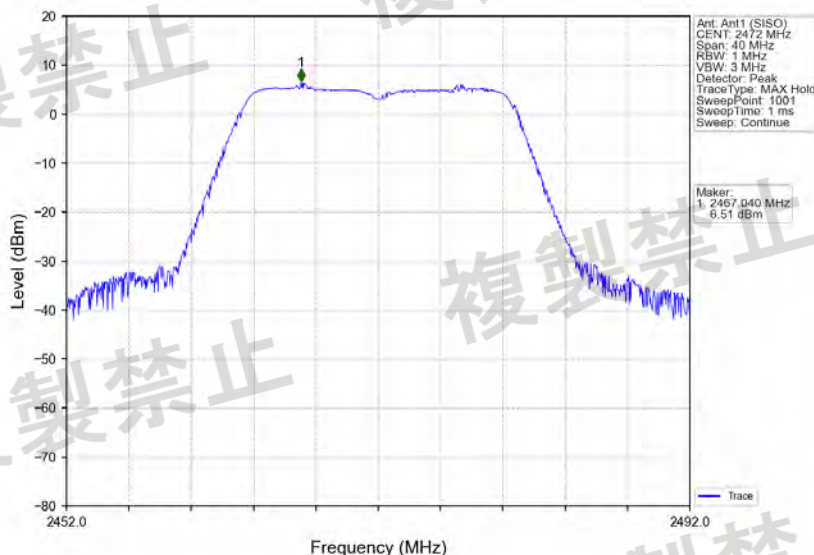
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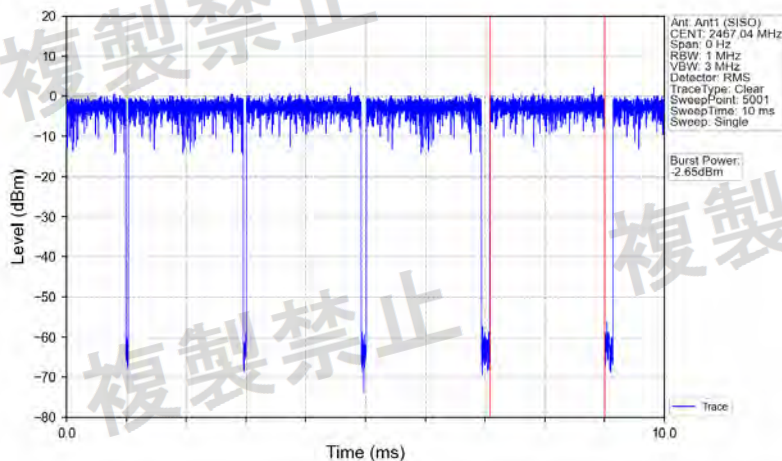
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802.11n(HT20)_2472MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_2472MHz_Ant1 (SISO)_NTNV



Burst No.	1	2	3	4
Length (ms)	1.922	1.920	1.922	1.920
Power(dBm)	-2.67	-2.71	-2.66	-2.65
Remark	/	/	/	Max

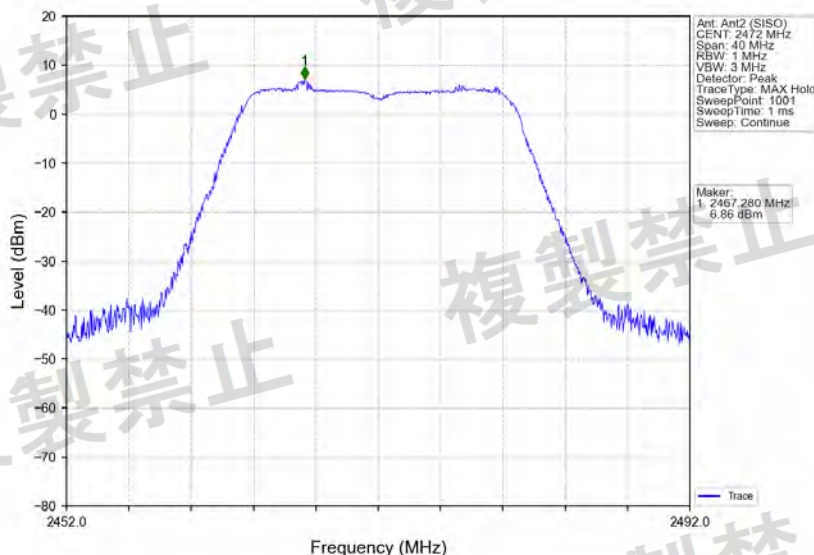
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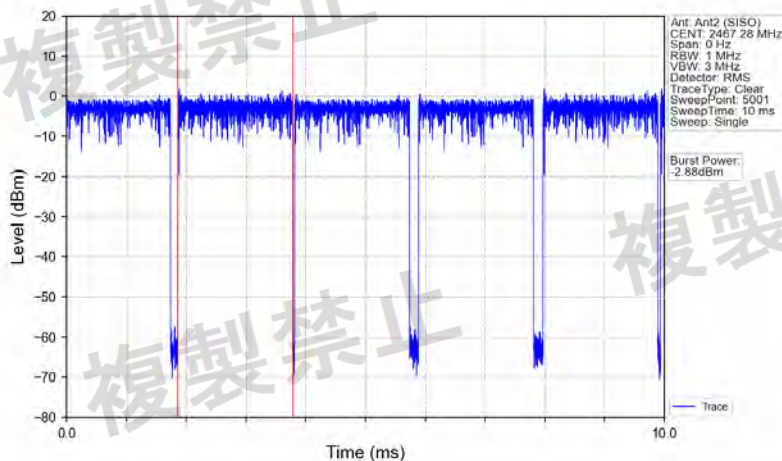
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802.11n(HT20)_2472MHz_Ant2 (SISO)_NTNV



802.11n(HT20)_2472MHz_Ant2 (SISO)_NTNV



Burst No.	1	2	3	4
Length (ms)	1.928	1.930	1.930	1.928
Power(dBm)	-2.88	-3.09	-3.09	-2.88
Remark	Max	/	/	

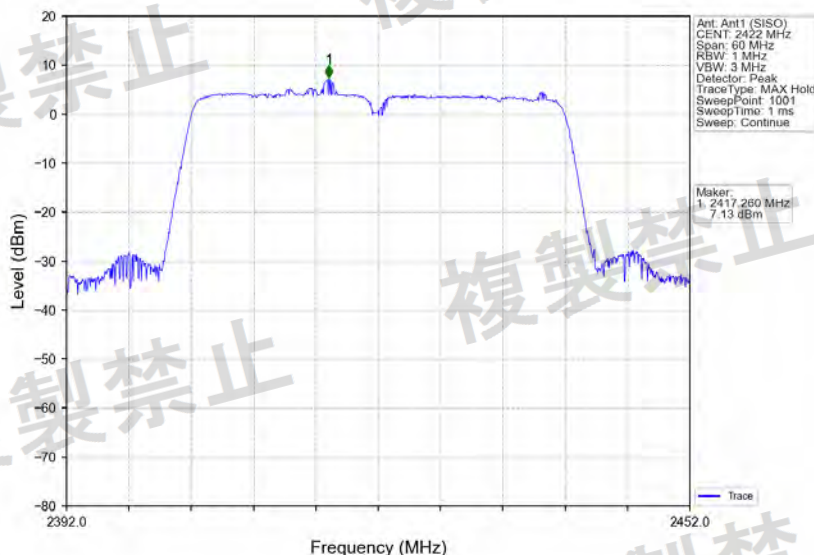
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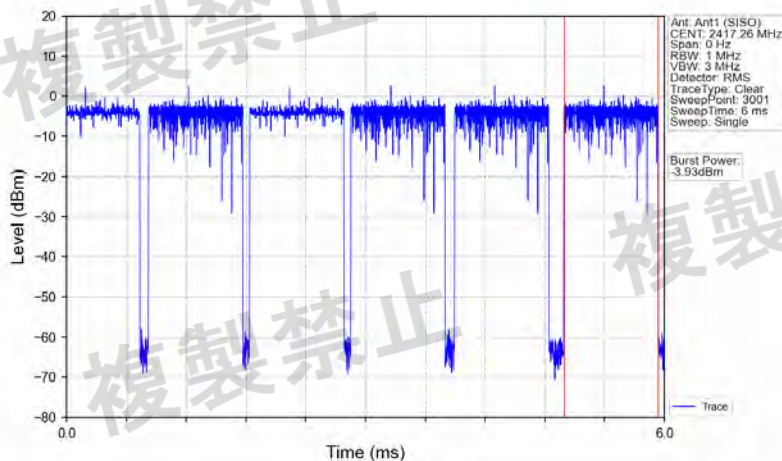
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802.11n(HT40)_2422MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_2422MHz_Ant1 (SISO)_NTNV



Burst No.	1	2	3	4	5
Length (ms)	0.946	0.946	0.946	0.946	0.946
Power(dBm)	-3.95	-3.95	-3.94	-3.93	-3.93
Remark	/	/	/	/	Max

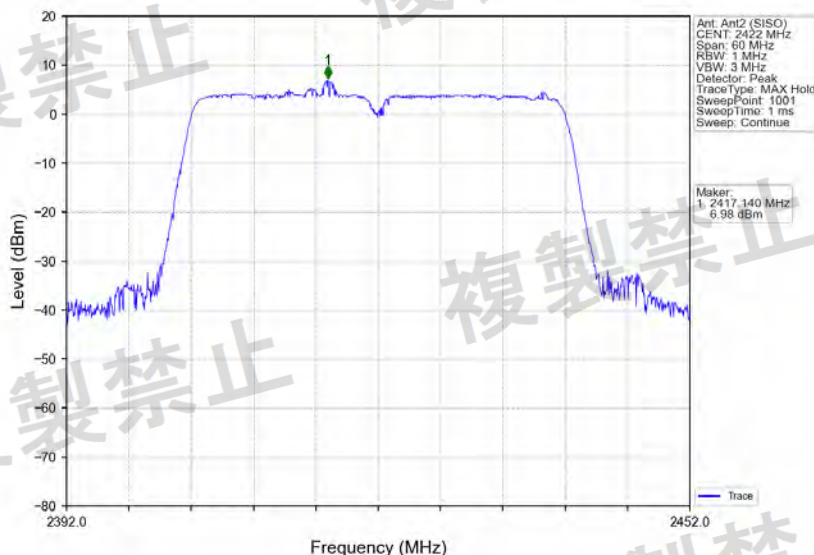
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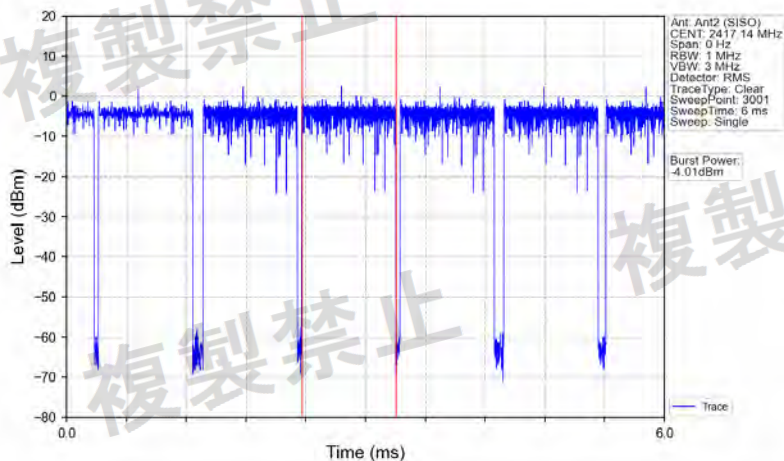
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802.11n(HT40)_2422MHz_Ant2 (SISO)_NTNV



802.11n(HT40)_2422MHz_Ant2 (SISO)_NTNV



Burst No.	1	2	3	4	5
Length (ms)	0.946	0.944	0.944	0.944	0.944
Power(dBm)	-4.27	-4.26	-4.01	-4.27	-4.27
Remark	/	/	Max	/	/

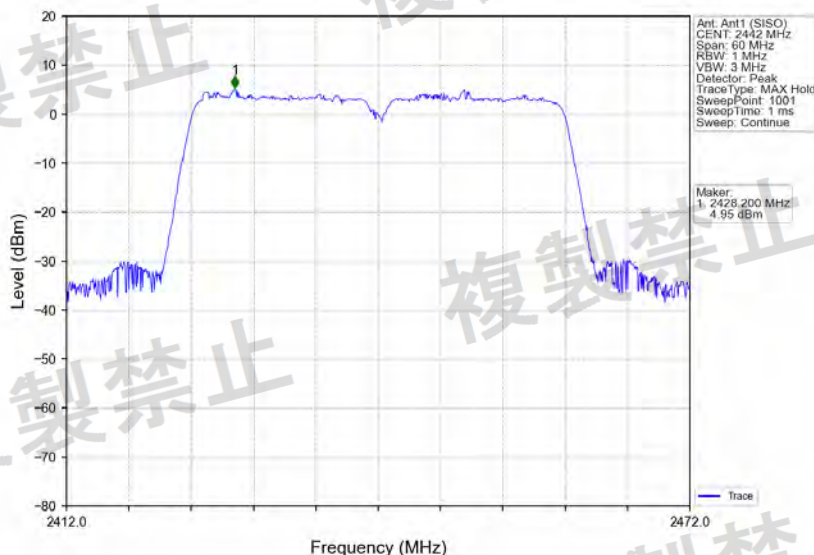
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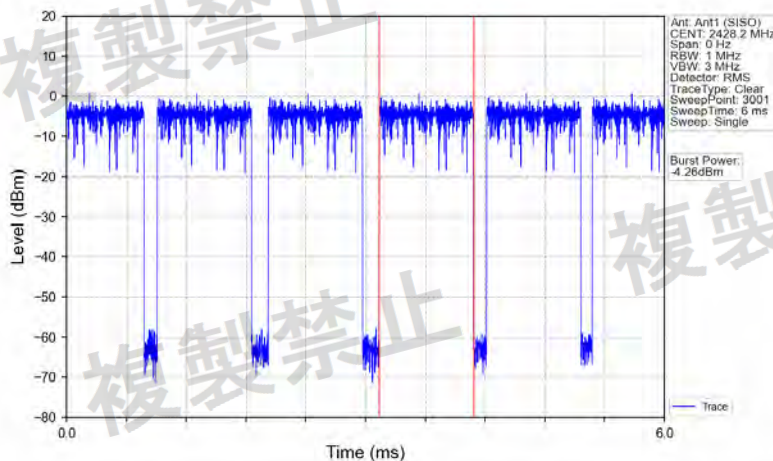
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802.11n(HT40)_2442MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_2442MHz_Ant1 (SISO)_NTNV



Burst No.	1	2	3	4
Length (ms)	0.946	0.946	0.946	0.946
Power (dBm)	-4.27	-4.26	-4.26	-4.26
Remark	/	/	Max	

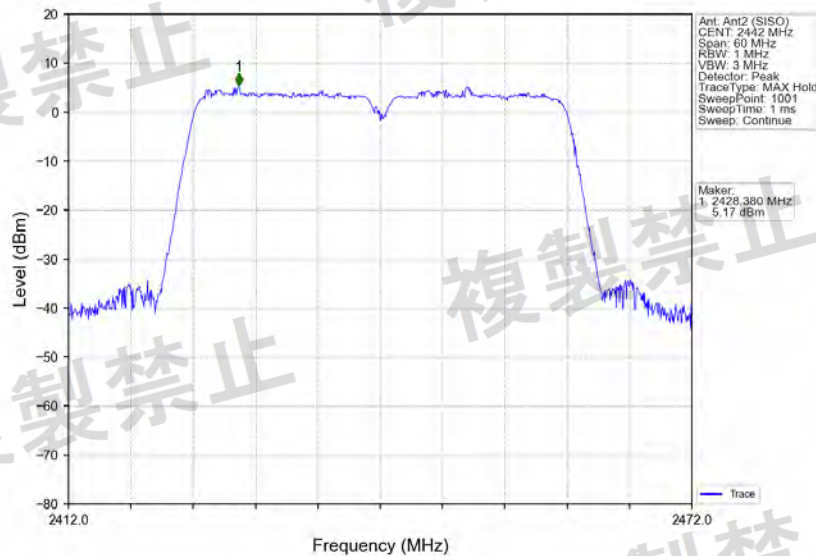
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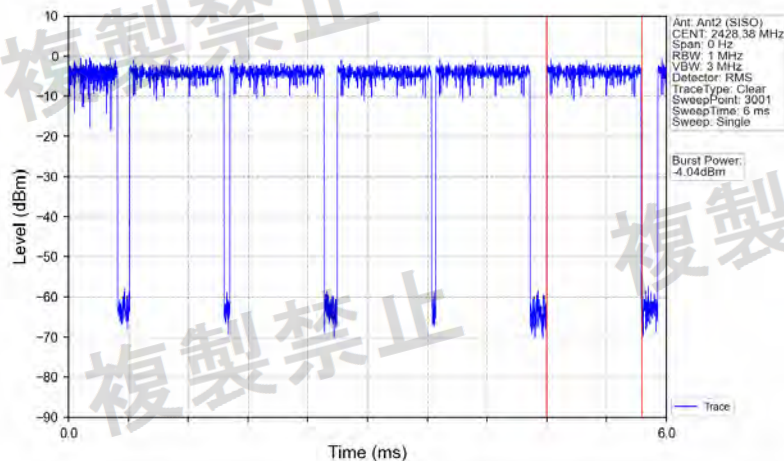
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802.11n(HT40)_2442MHz_Ant2 (SISO)_NTNV



802.11n(HT40)_2442MHz_Ant2 (SISO)_NTNV



Burst No.	1	2	3	4	5
Length (ms)	0.954	0.954	0.954	0.954	0.954
Power(dBm)	-4.29	-4.06	-4.29	-4.06	-4.04
Remark	/	/	/	/	Max

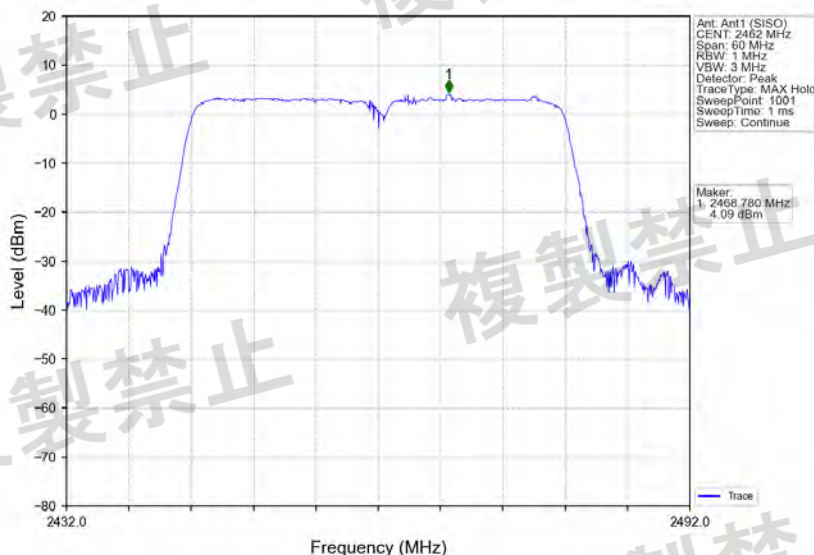
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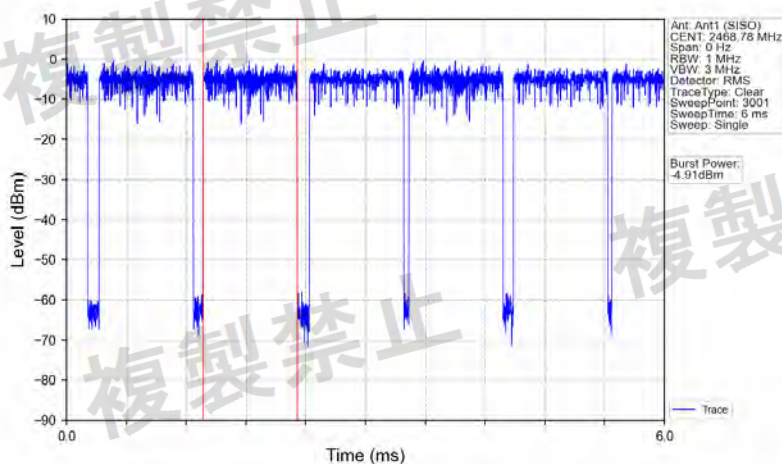
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802.11n(HT40)_2462MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_2462MHz_Ant1 (SISO)_NTNV



Burst No.	1	2	3	4	5
Length (ms)	0.944	0.944	0.946	0.944	0.946
Power(dBm)	-4.95	-4.91	-4.95	-4.95	-4.95
Remark	/	Max	/	/	/

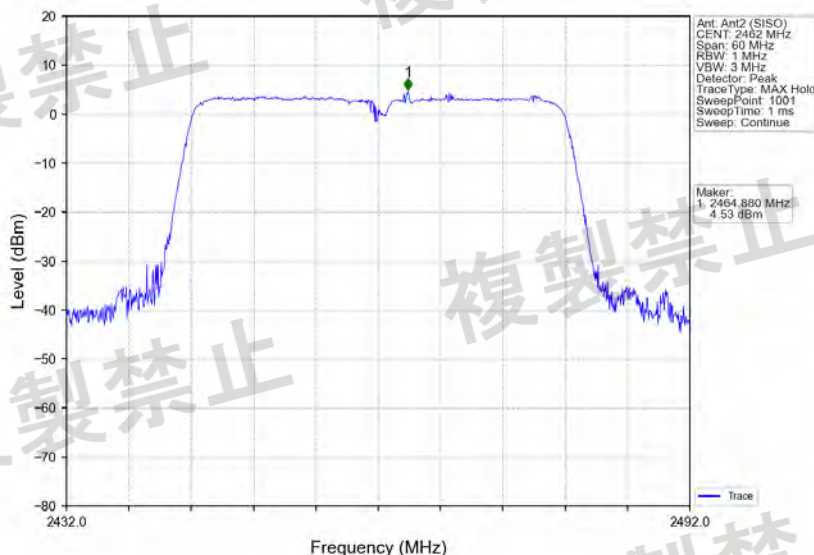
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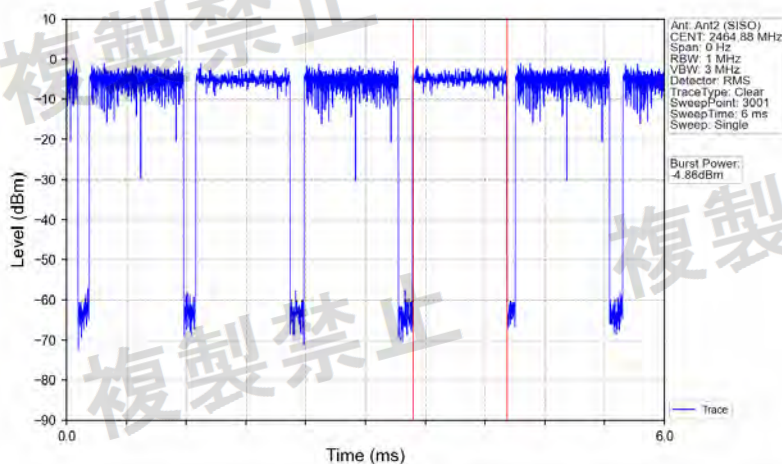
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802.11n(HT40)_2462MHz_Ant2 (SISO)_NTNV



802.11n(HT40)_2462MHz_Ant2 (SISO)_NTNV



Burst No.	1	2	3	4	5
Length (ms)	0.946	0.946	0.946	0.946	0.946
Power(dBm)	-4.87	-5.05	-5.05	-4.86	-4.86
Remark	/	/	/	Max	/

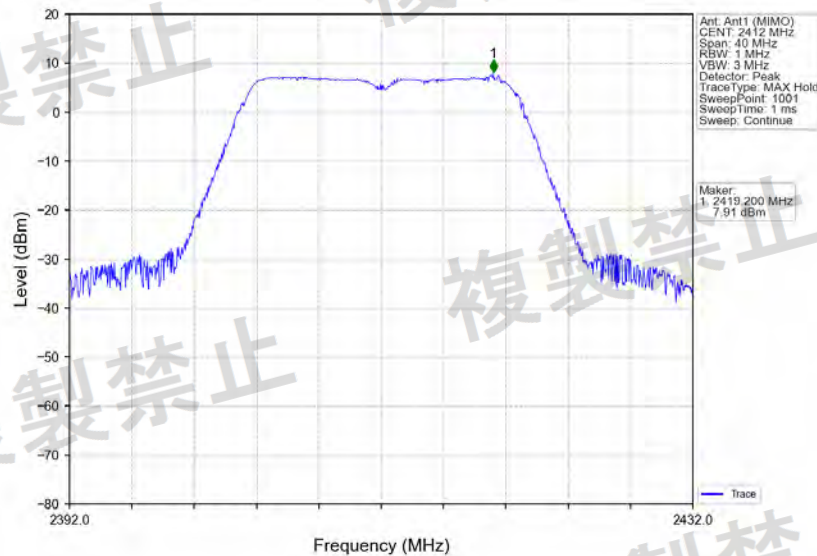
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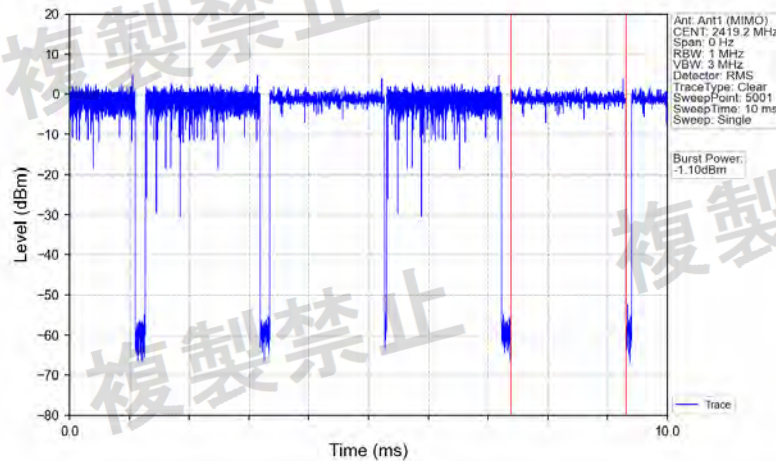
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802.11n(HT20)_2412MHz_Ant1 (MIMO)_NTNV



802.11n(HT20)_2412MHz_Ant1 (MIMO)_NTNV



Burst No.	1	2	3	4
Length (ms)	1.930	1.930	1.930	1.928
Power(dBm)	-1.11	-1.11	-1.11	-1.10
Remark	/	/	/	Max

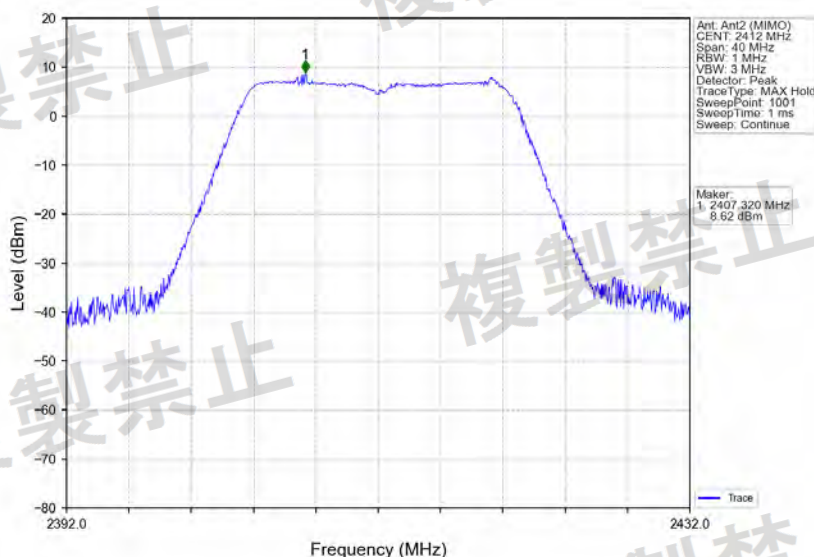
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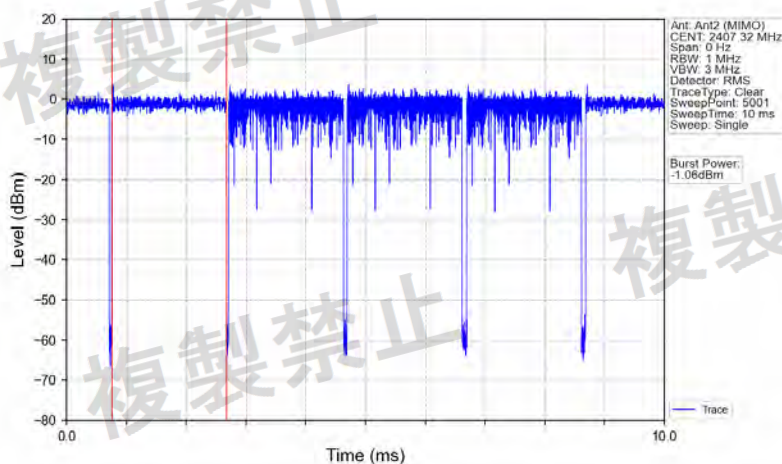
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802.11n(HT20)_2412MHz_Ant2 (MIMO)_NTNV



802.11n(HT20)_2412MHz_Ant2 (MIMO)_NTNV



Burst No.	1	2	3	4
Length (ms)	1.920	1.922	1.922	1.922
Power(dBm)	-1.06	-1.34	-1.06	-1.34
Remark	Max	/	/	/

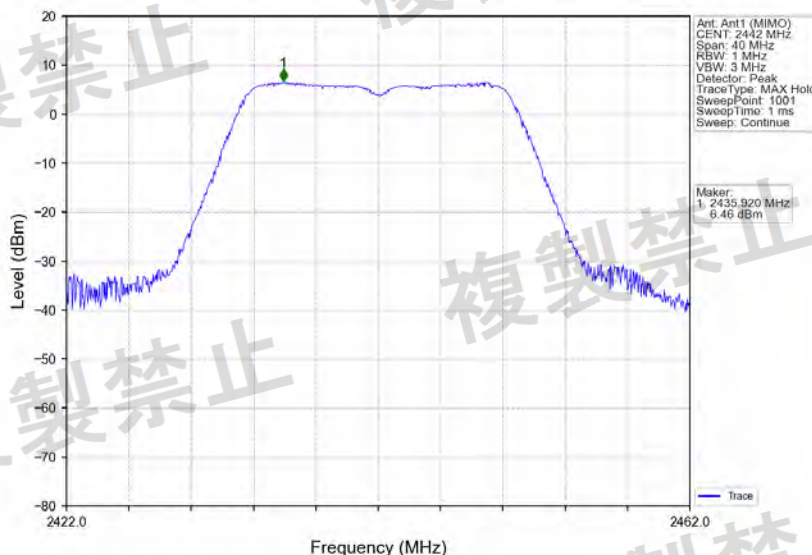
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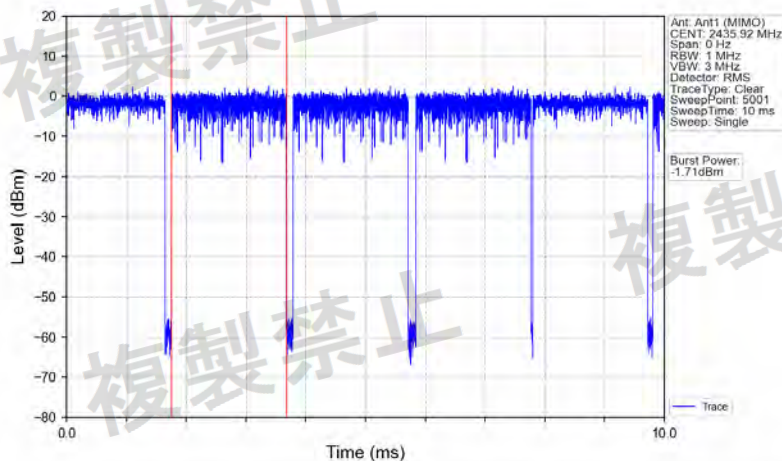
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802.11n(HT20)_2442MHz_Ant1 (MIMO)_NTNV



802.11n(HT20)_2442MHz_Ant1 (MIMO)_NTNV



Burst No.	1	2	3	4
Length (ms)	1.922	1.922	1.922	1.920
Power(dBm)	-1.71	-1.72	-1.72	-1.72
Remark	Max	/	/	/

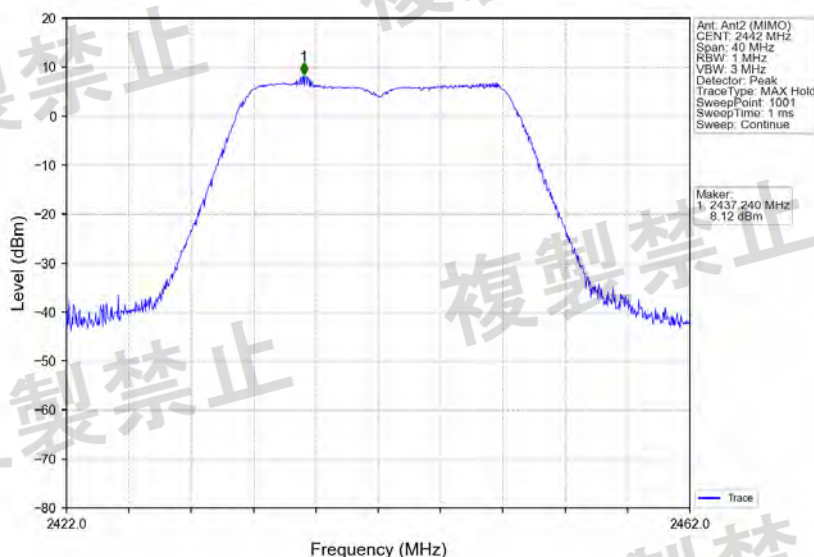
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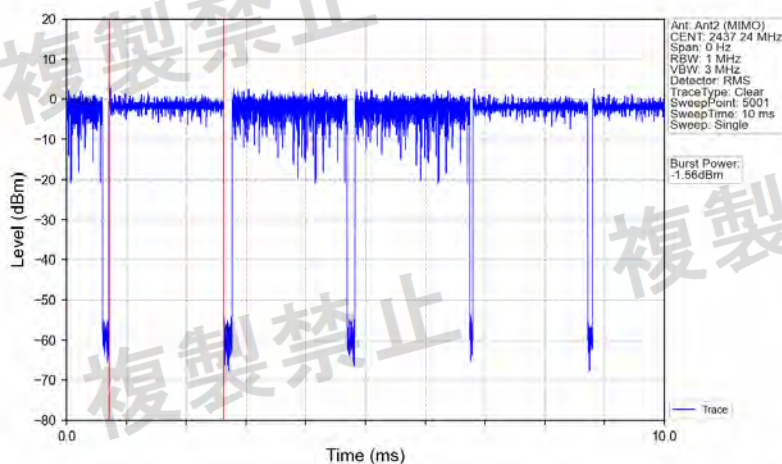
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802.11n(HT20)_2442MHz_Ant2 (MIMO)_NTNV



802.11n(HT20)_2442MHz_Ant2 (MIMO)_NTNV



Burst No.	1	2	3	4
Length (ms)	1.920	1.922	1.922	1.920
Power(dBm)	-1.56	-1.56	-1.79	-1.79
Remark	Max	/	/	/

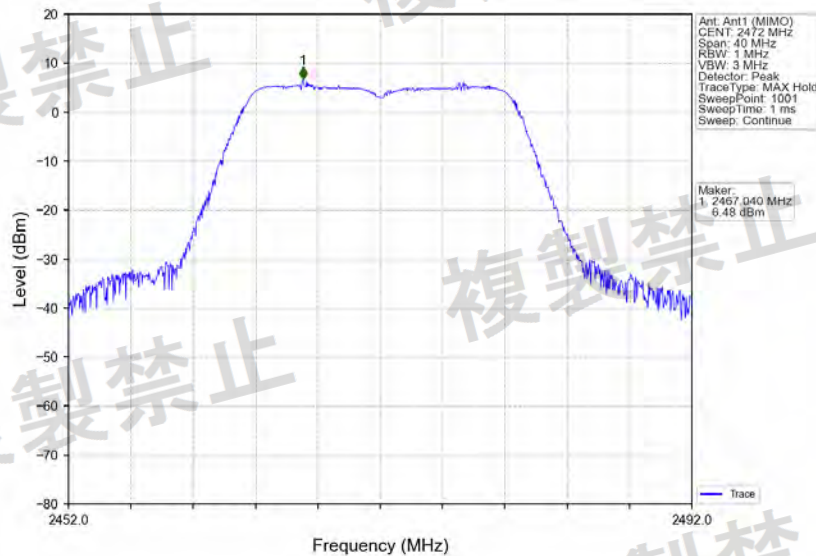
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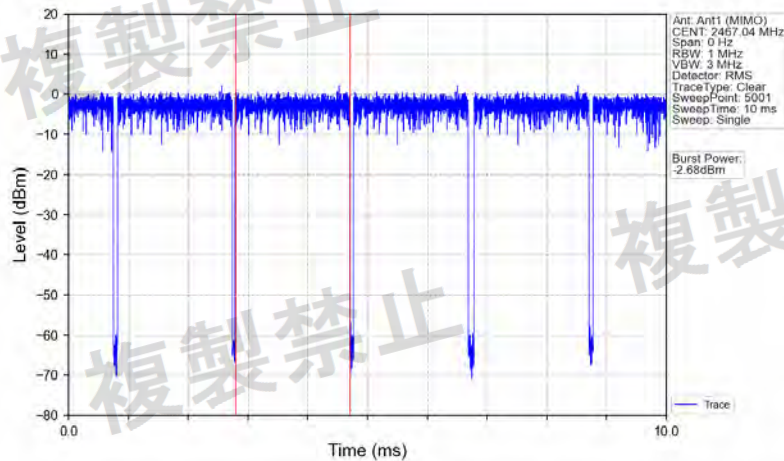
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802.11n(HT20)_2472MHz_Ant1 (MIMO)_NTNV



802.11n(HT20)_2472MHz_Ant1 (MIMO)_NTNV



Burst No.	1	2	3	4
Length (ms)	1.920	1.920	1.920	1.920
Power(dBm)	-2.73	-2.68	-2.73	-2.73
Remark	/	Max	/	/

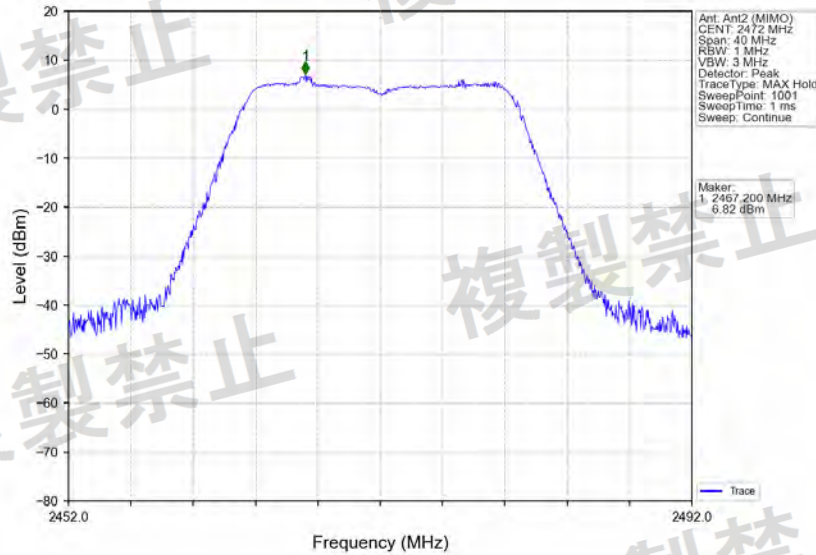
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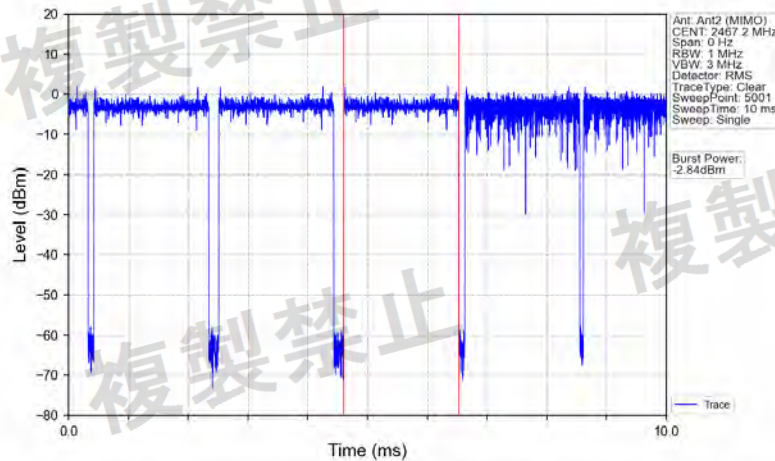
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802.11n(HT20)_2472MHz_Ant2 (MIMO)_NTNV



802.11n(HT20)_2472MHz_Ant2 (MIMO)_NTNV



Burst No.	1	2	3	4
Length (ms)	1.920	1.922	1.922	1.922
Power(dBm)	-3.06	-2.85	-2.84	-3.06
Remark	/	/	Max	

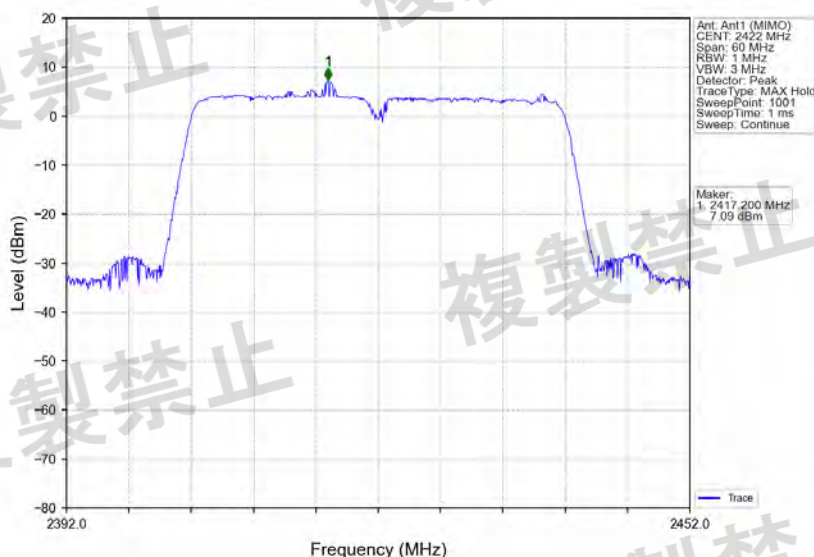
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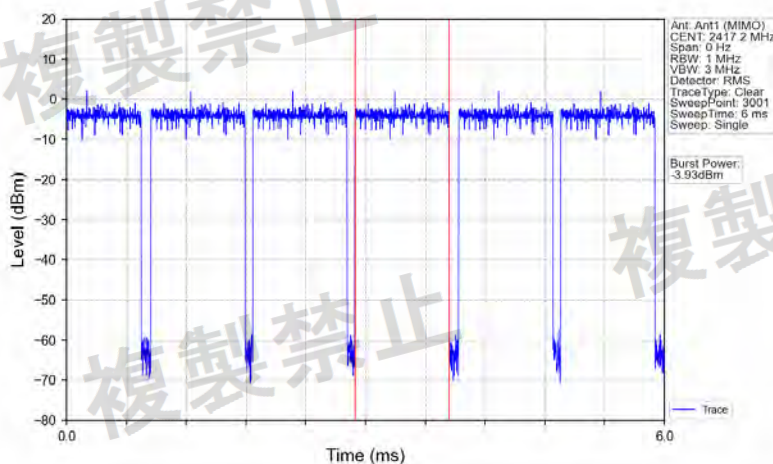
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802.11n(HT40)_2422MHz_Ant1 (MIMO)_NTNV



802.11n(HT40)_2422MHz_Ant1 (MIMO)_NTNV



Burst No.	1	2	3	4	5
Length (ms)	0.946	0.946	0.946	0.946	0.946
Power(dBm)	-3.94	-3.93	-3.93	-3.93	-3.95
Remark	/	/	Max	/	/

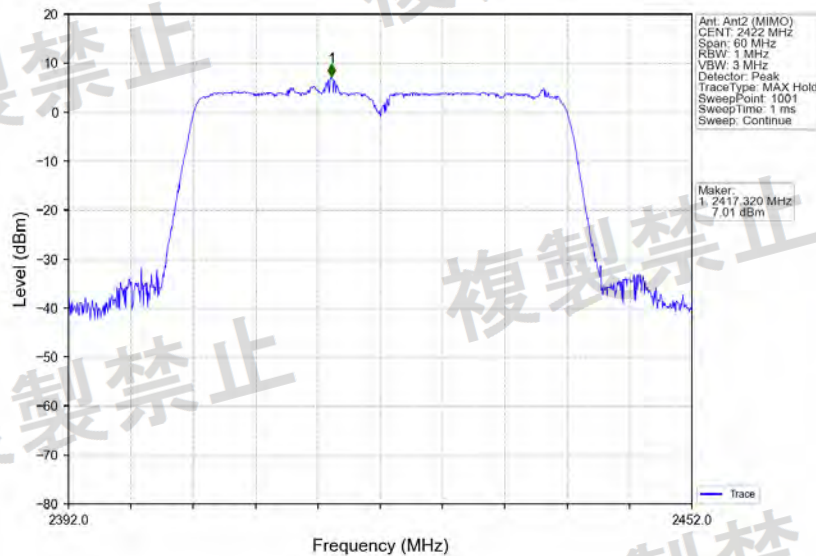
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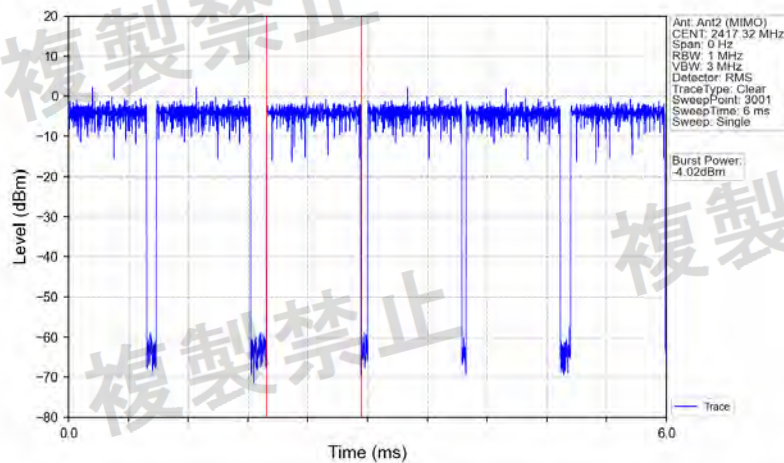
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802.11n(HT40)_2422MHz_Ant2 (MIMO)_NTNV



802.11n(HT40)_2422MHz_Ant2 (MIMO)_NTNV



Burst No.	1	2	3	4
Length (ms)	0.952	0.950	0.952	0.950
Power(dBm)	-4.03	-4.02	-4.03	-4.30
Remark	/	Max	/	

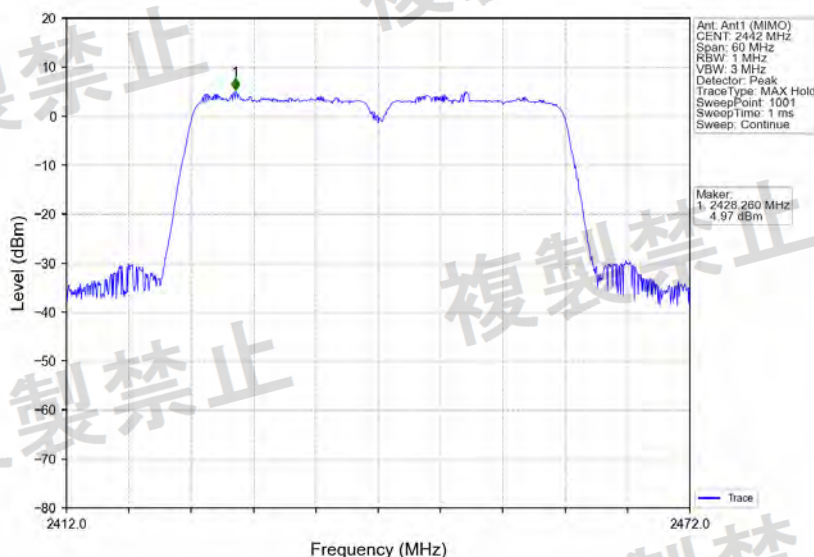
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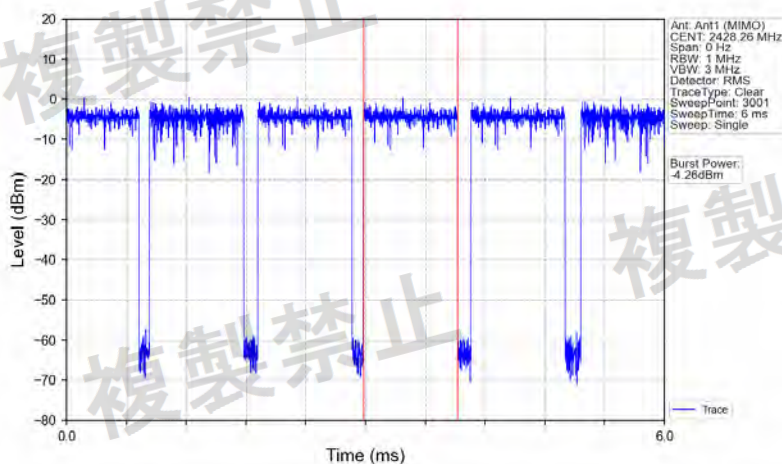
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802.11n(HT40)_2442MHz_Ant1 (MIMO)_NTNV



802.11n(HT40)_2442MHz_Ant1 (MIMO)_NTNV



Burst No.	1	2	3	4
Length (ms)	0.946	0.944	0.944	0.944
Power(dBm)	-4.28	-4.27	-4.26	-4.26
Remark	/	/	Max	

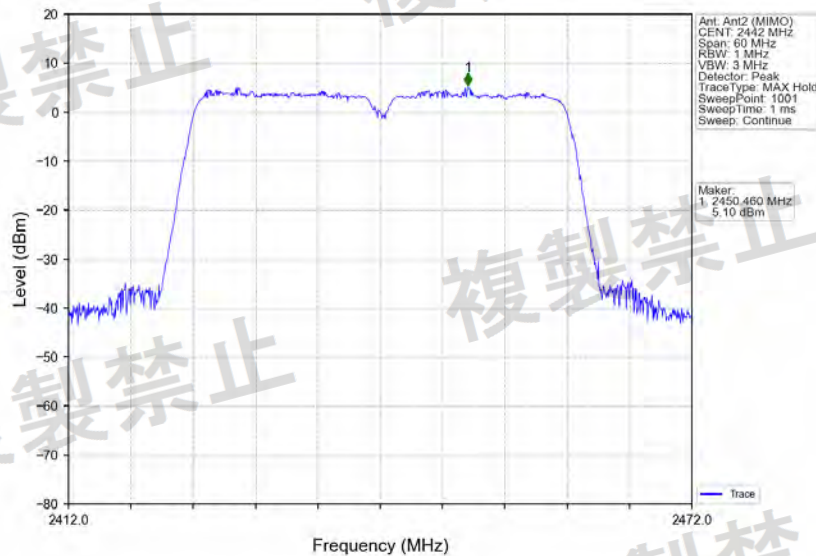
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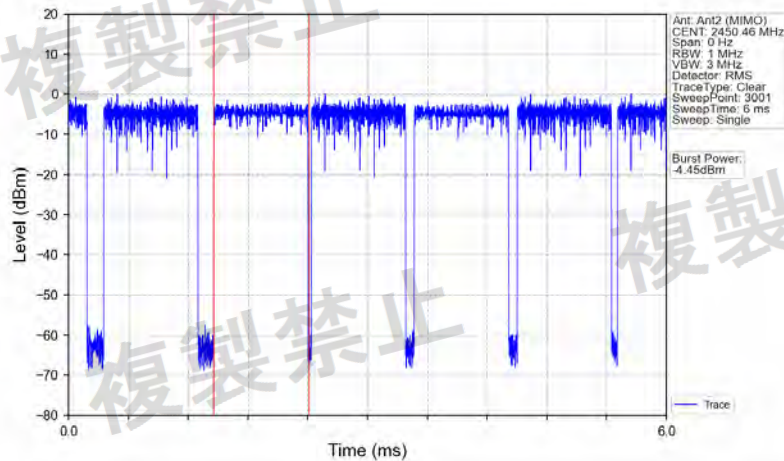
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802.11n(HT40)_2442MHz_Ant2 (MIMO)_NTNV



802.11n(HT40)_2442MHz_Ant2 (MIMO)_NTNV



Burst No.	1	2	3	4	5
Length (ms)	0.952	0.954	0.952	0.954	0.952
Power(dBm)	-4.65	-4.45	-4.46	-4.67	-4.46
Remark	/	Max	/	/	/

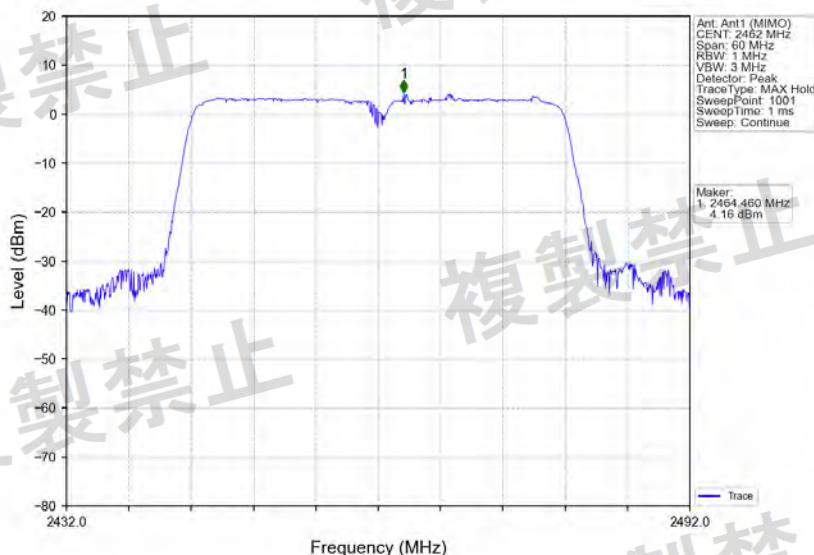
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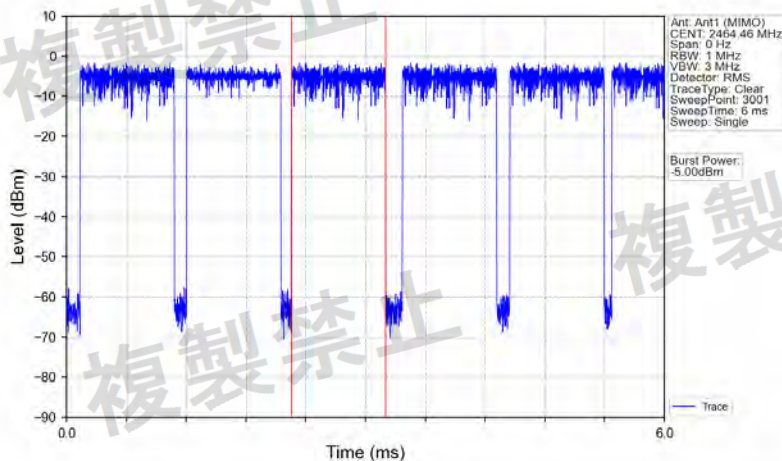
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802.11n(HT40)_2462MHz_Ant1 (MIMO)_NTNV



802.11n(HT40)_2462MHz_Ant1 (MIMO)_NTNV



Burst No.	1	2	3	4	5
Length (ms)	0.946	0.944	0.946	0.946	0.946
Power(dBm)	-5.04	-5.03	-5.00	-5.03	-5.03
Remark	/	/	Max	/	/

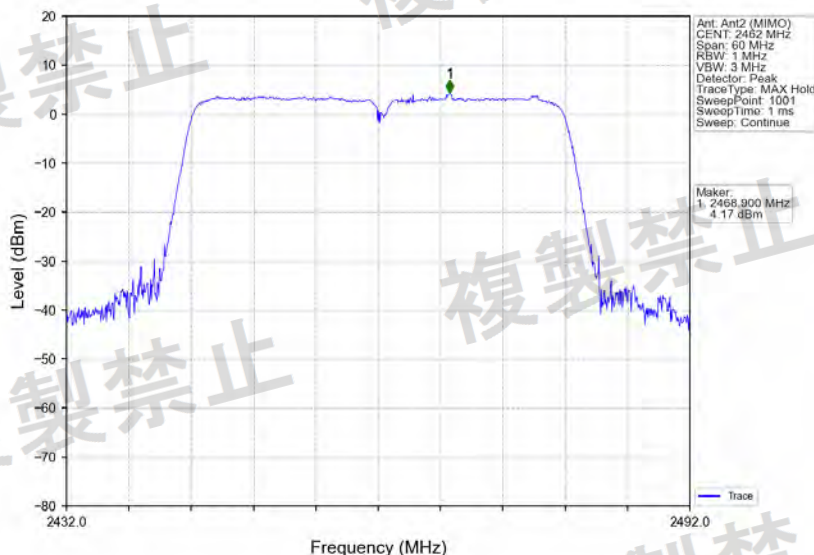
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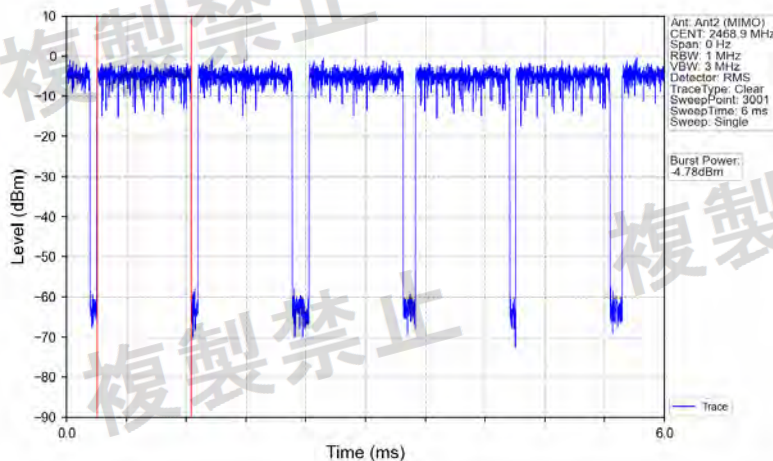
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802.11n(HT40)_2462MHz_Ant2 (MIMO)_NTNV



802.11n(HT40)_2462MHz_Ant2 (MIMO)_NTNV



Burst No.	1	2	3	4	5
Length (ms)	0.946	0.944	0.944	0.946	0.946
Power(dBm)	-4.78	-4.96	-4.94	-4.96	-4.78
Remark	Max	/	/	/	/

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Report No.: KSCR221200244001

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4.2 EIRP

4.2.1 Test Result

ENV	Mode	TX Type	Frequency (MHz)	ANT	Gain (dbi)	EIRP (mW/MHz)		Verdict
						Result	Limit	
NTNV	802.11b	SISO	2412	1	2.15	2.374	Only For Report	Pass
				2	2.15	2.415	Only For Report	Pass
			2442	1	2.15	2.126	Only For Report	Pass
				2	2.15	2.361	Only For Report	Pass
			2472	1	2.15	2.151	Only For Report	Pass
				2	2.15	2.407	Only For Report	Pass
	802.11g	SISO	2412	1	2.15	1.408	Only For Report	Pass
				2	2.15	1.271	Only For Report	Pass
			2442	1	2.15	1.134	Only For Report	Pass
				2	2.15	1.286	Only For Report	Pass
			2472	1	2.15	1.080	Only For Report	Pass
				2	2.15	1.066	Only For Report	Pass
	802.11n (HT20)	SISO	2412	1	2.15	1.280	Only For Report	Pass
				2	2.15	1.296	Only For Report	Pass
			2442	1	2.15	1.086	Only For Report	Pass
				2	2.15	1.139	Only For Report	Pass
			2472	1	2.15	0.891	Only For Report	Pass
				2	2.15	0.847	Only For Report	Pass
	802.11n (HT40)	SISO	2422	1	2.15	0.664	Only For Report	Pass
				2	2.15	0.651	Only For Report	Pass
			2442	1	2.15	0.615	Only For Report	Pass
				2	2.15	0.646	Only For Report	Pass
			2462	1	2.15	0.530	Only For Report	Pass
				2	2.15	0.536	Only For Report	Pass
	802.11n (HT20)	MIMO	2412	1	2.15	1.275	Only For Report	Pass
				2	2.15	1.286	Only For Report	Pass
				MIMO	0.00	2.561	Only For Report	Pass
			2442	1	2.15	1.107	Only For Report	Pass
				2	2.15	1.147	Only For Report	Pass
				MIMO	0.00	2.254	Only For Report	Pass
			2472	1	2.15	0.884	Only For Report	Pass
				2	2.15	0.851	Only For Report	Pass
				MIMO	0.00	1.735	Only For Report	Pass

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	802.11n (HT40)	MIMO	2422	1	2.15	0.664	Only For Report	Pass
				2	2.15	0.650	Only For Report	Pass
				MIMO	0.00	1.314	Only For Report	Pass
			2442	1	2.15	0.615	Only For Report	Pass
				2	2.15	0.589	Only For Report	Pass
				MIMO	0.00	1.204	Only For Report	Pass
			2462	1	2.15	0.518	Only For Report	Pass
				2	2.15	0.546	Only For Report	Pass
				MIMO	0.00	1.064	Only For Report	Pass

5. Spurious Emission Intensity

5.1 TXSE

5.1.1 Test Result

ENV	Mode	TX Type	Frequency (MHz)	ANT	Test Result	Limit	Verdict
NTNV	802.11b	SISO	2412	1	Refer To Test Graph		Pass
				2	Refer To Test Graph		Pass
			2442	1	Refer To Test Graph		Pass
				2	Refer To Test Graph		Pass
			2472	1	Refer To Test Graph		Pass
				2	Refer To Test Graph		Pass
	802.11g	SISO	2412	1	Refer To Test Graph		Pass
				2	Refer To Test Graph		Pass
			2442	1	Refer To Test Graph		Pass
				2	Refer To Test Graph		Pass
			2472	1	Refer To Test Graph		Pass
				2	Refer To Test Graph		Pass
	802.11n (HT20)	SISO	2412	1	Refer To Test Graph		Pass
				2	Refer To Test Graph		Pass
			2442	1	Refer To Test Graph		Pass
				2	Refer To Test Graph		Pass
			2472	1	Refer To Test Graph		Pass
				2	Refer To Test Graph		Pass
	802.11n (HT40)	SISO	2422	1	Refer To Test Graph		Pass
				2	Refer To Test Graph		Pass
			2442	1	Refer To Test Graph		Pass
				2	Refer To Test Graph		Pass

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	802.11n (HT20)	MIMO	2462	1	Refer To Test Graph	Pass
				2	Refer To Test Graph	Pass
			2412	MIMO	Refer To Test Graph	Pass
			2442	MIMO	Refer To Test Graph	Pass
	802.11n (HT40)	MIMO	2472	MIMO	Refer To Test Graph	Pass
			2422	MIMO	Refer To Test Graph	Pass
			2442	MIMO	Refer To Test Graph	Pass
			2462	MIMO	Refer To Test Graph	Pass



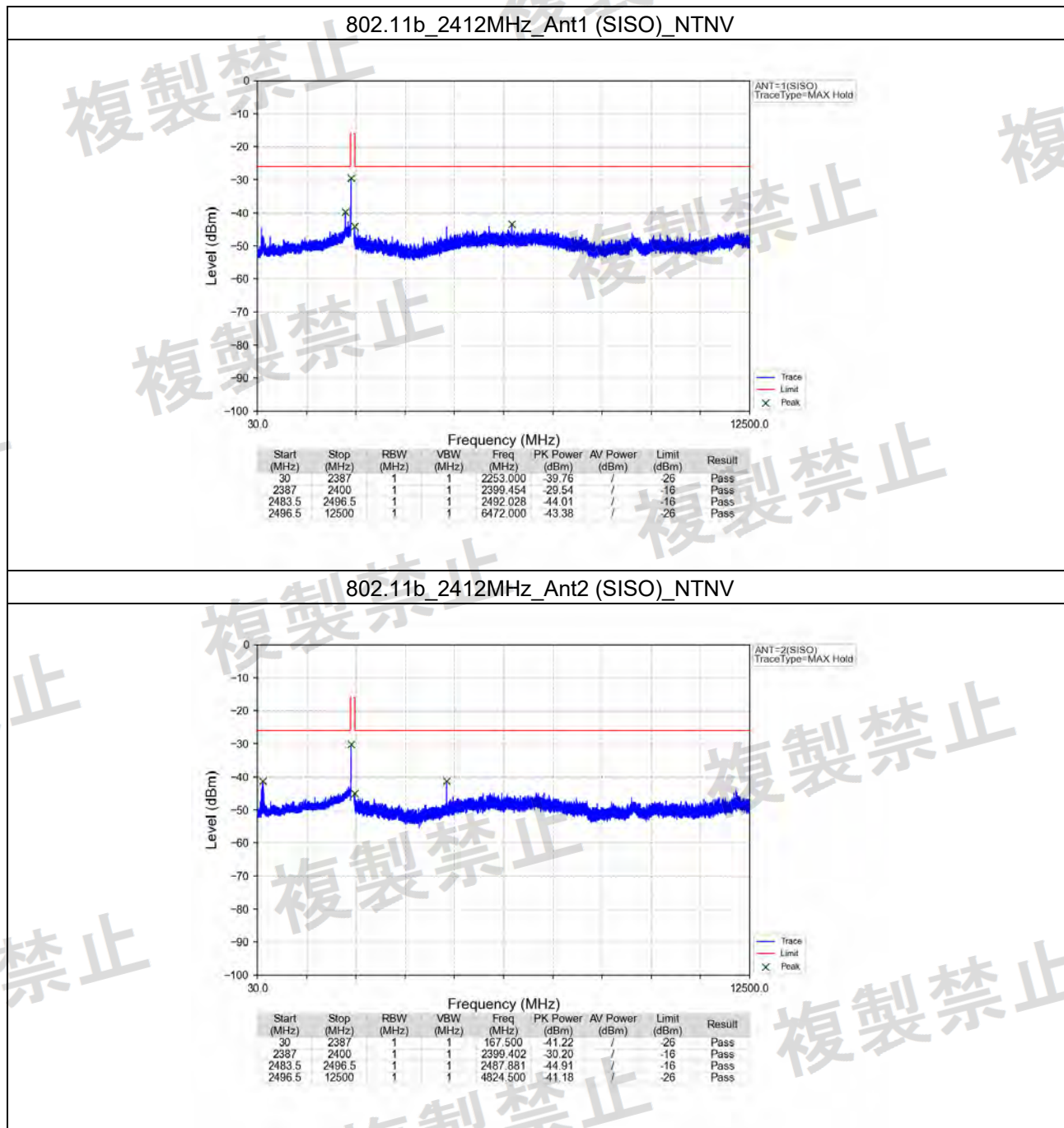
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5.1.2 Test Graph



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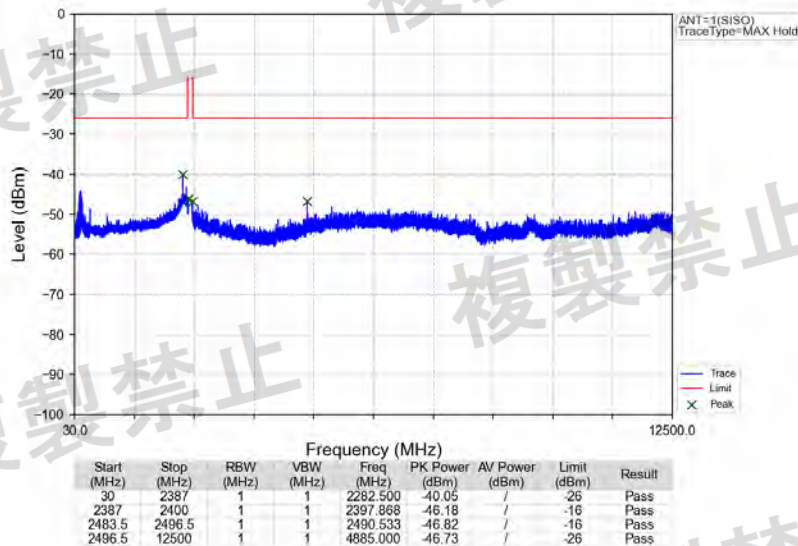
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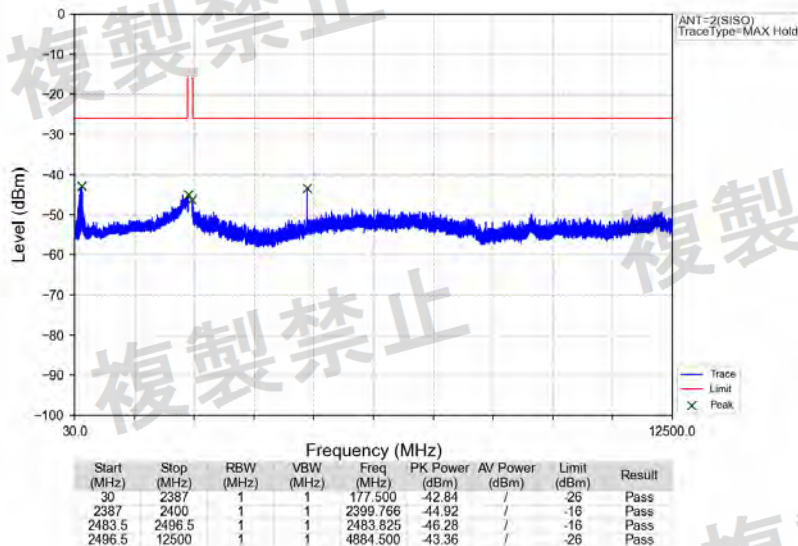
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802.11b_2442MHz_Ant1 (SISO)_NTNV



802.11b_2442MHz_Ant2 (SISO)_NTNV



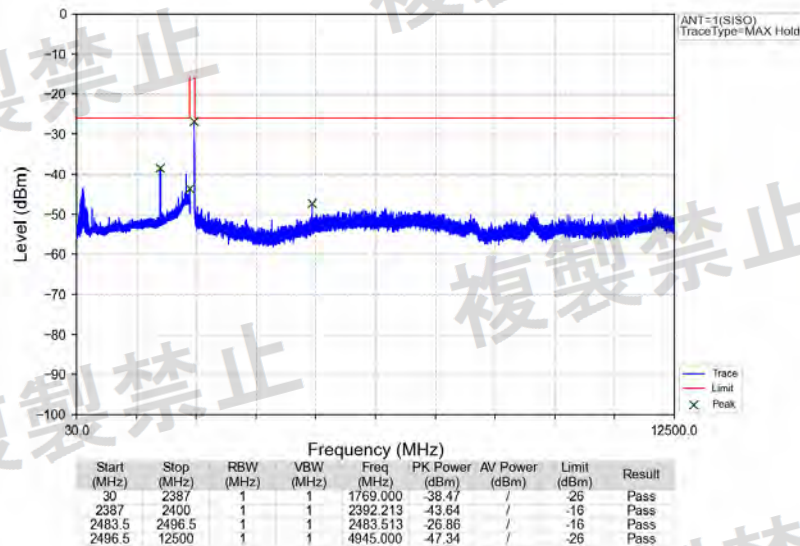
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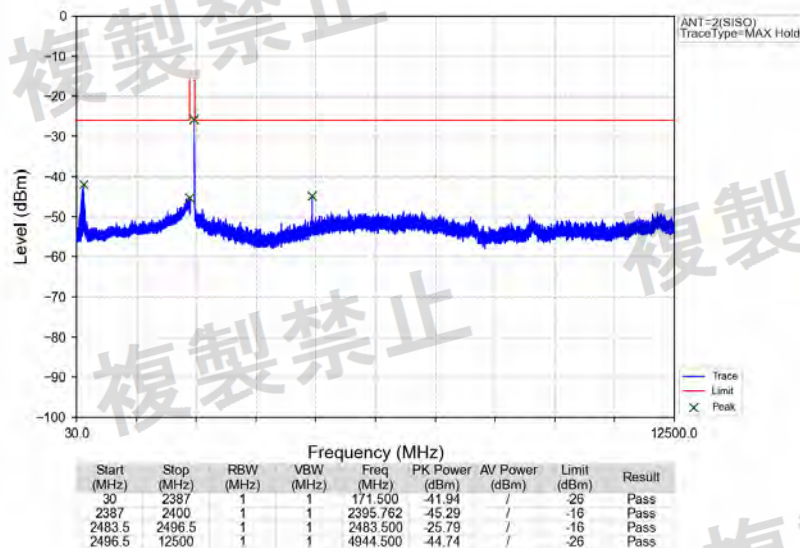
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802.11b_2472MHz_Ant1 (SISO)_NTNV



802.11b_2472MHz_Ant2 (SISO)_NTNV



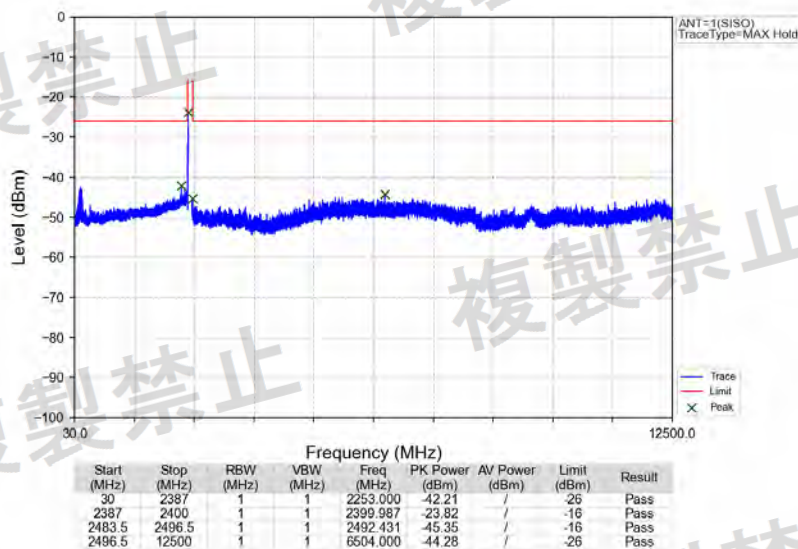
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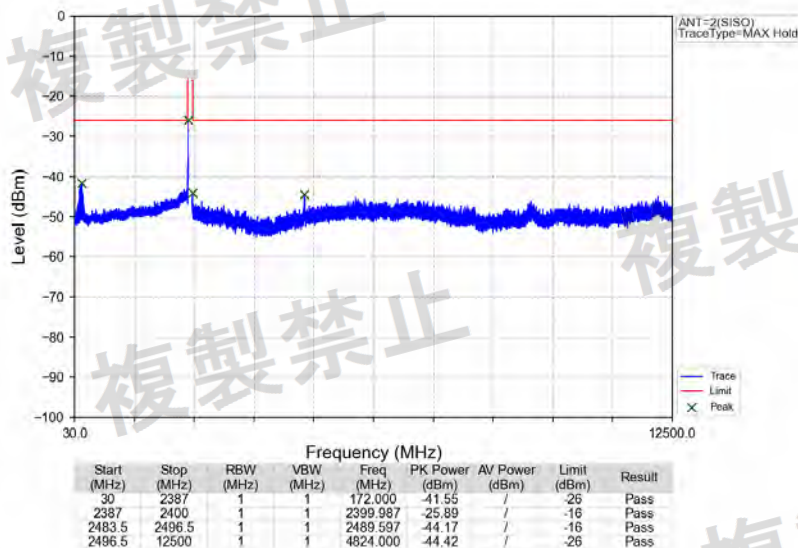
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802.11g_2412MHz_Ant1 (SISO)_NTNV



802.11g_2412MHz_Ant2 (SISO)_NTNV



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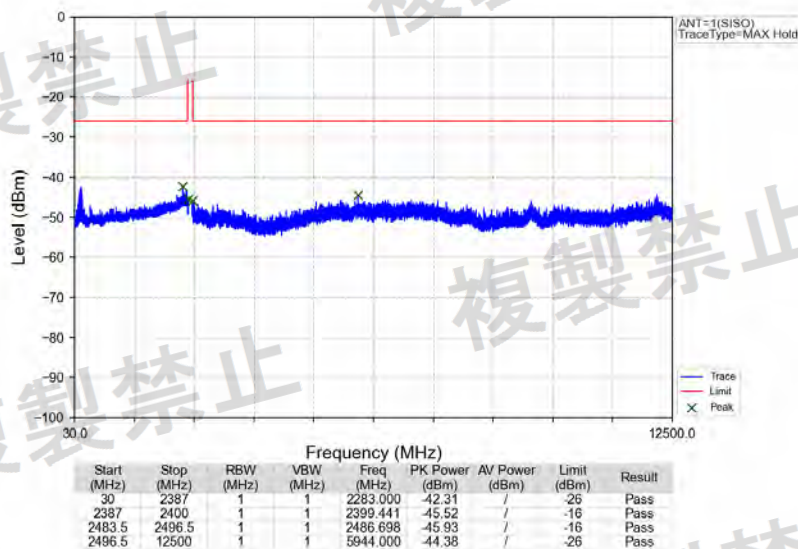
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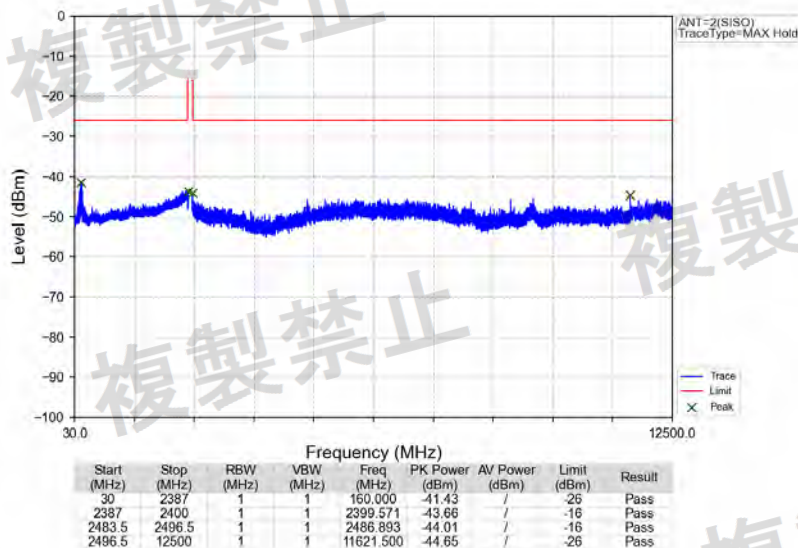
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802.11g_2442MHz_Ant1 (SISO)_NTNV



802.11g_2442MHz_Ant2 (SISO)_NTNV



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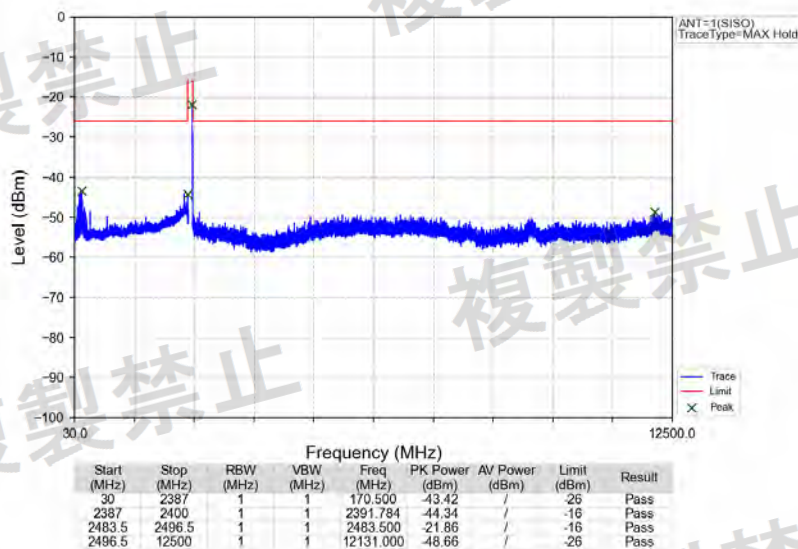
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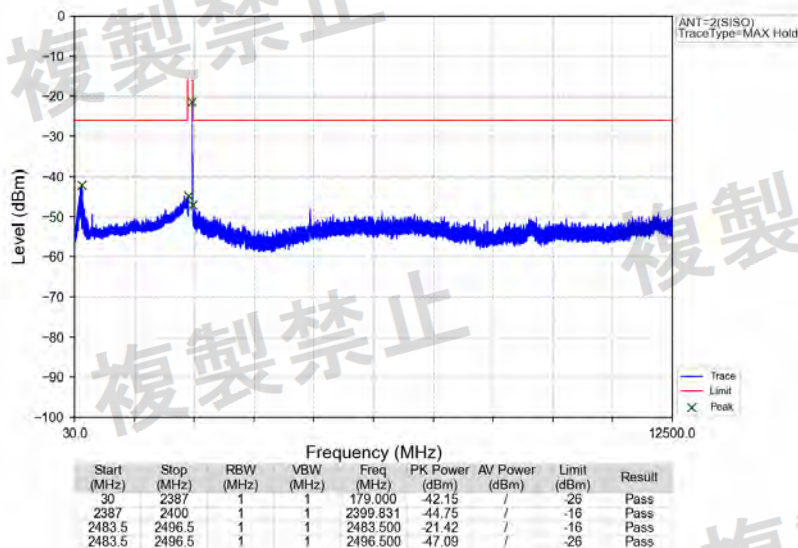
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802.11g_2472MHz_Ant1 (SISO)_NTNV



802.11g_2472MHz_Ant2 (SISO)_NTNV



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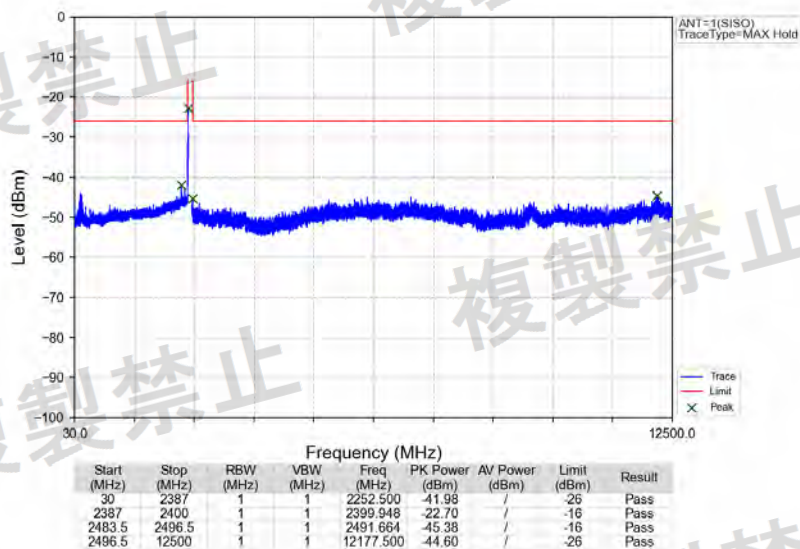
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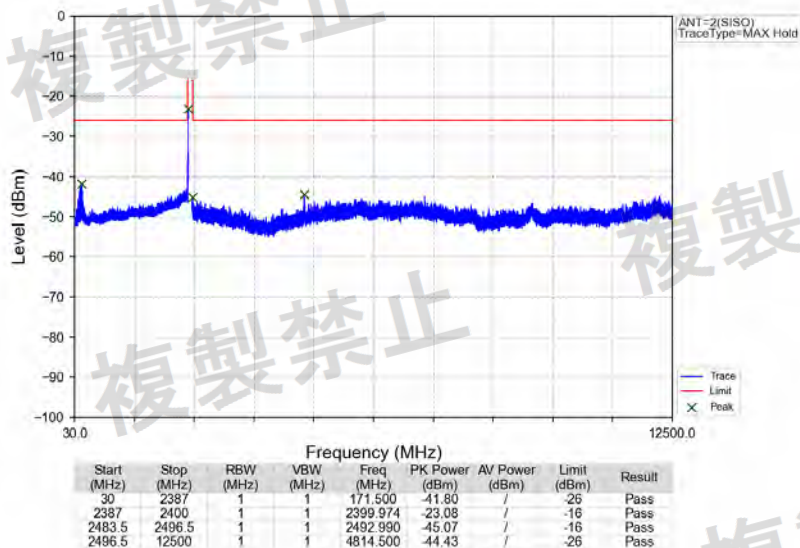
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802.11n(HT20)_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_2412MHz_Ant2 (SISO)_NTNV



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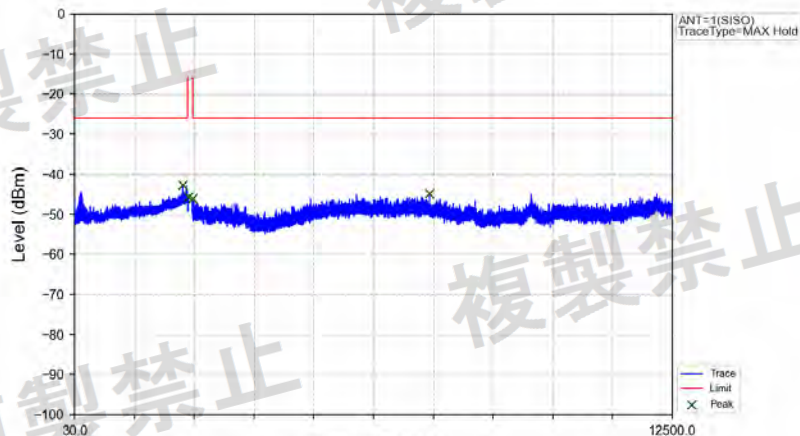
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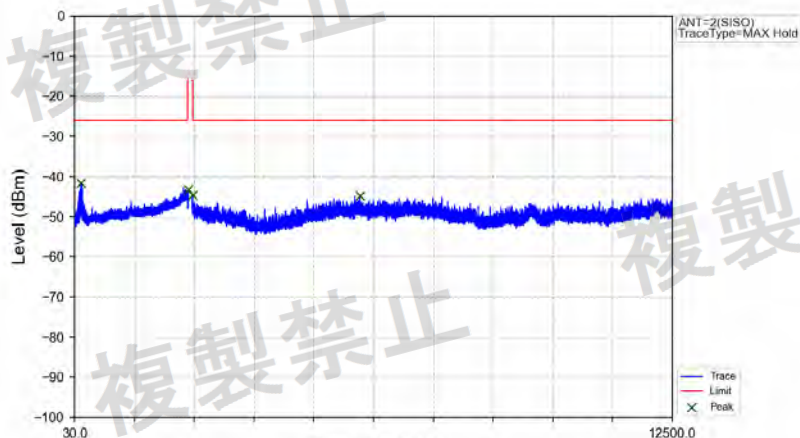
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802.11n(HT20)_2442MHz_Ant1 (SISO)_NTNV



Frequency (MHz)									
Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result	
30	2387	1	1	2283.000	-42.65	/	-26	Pass	
2387	2400	1	1	2397.114	-45.73	/	-16	Pass	
2483.5	2496.5	1	1	2486.581	-45.98	/	-16	Pass	
2496.5	12500	1	1	7435.500	-44.85	/	-26	Pass	

802.11n(HT20)_2442MHz_Ant2 (SISO)_NTNV



Frequency (MHz)									
Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result	
30	2387	1	1	166.500	-41.59	/	-26	Pass	
2387	2400	1	1	2399.584	-43.13	/	-16	Pass	
2483.5	2496.5	1	1	2486.581	-44.70	/	-16	Pass	
2496.5	12500	1	1	5981.000	-44.73	/	-26	Pass	

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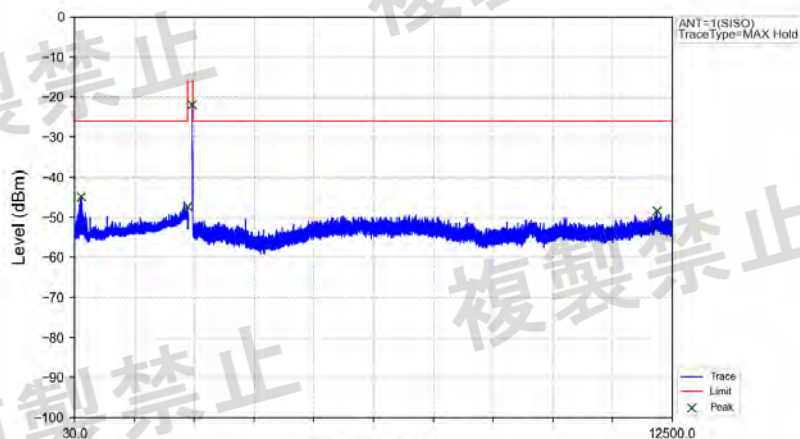
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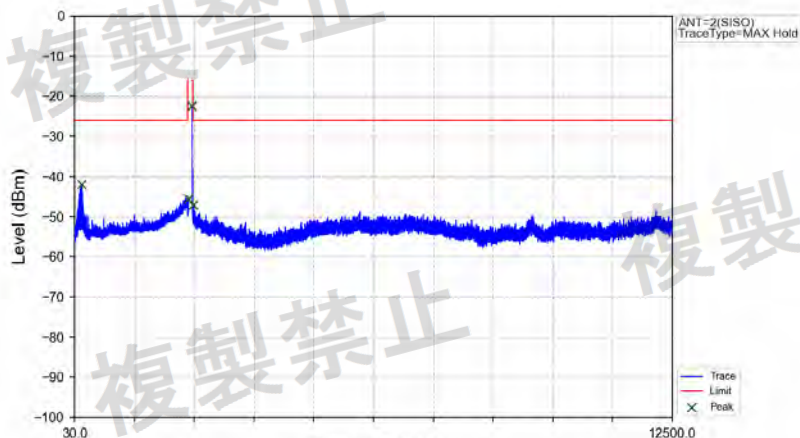
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802.11n(HT20)_2472MHz_Ant1 (SISO)_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	2387	1	1	159.500	44.86	/	-26	Pass
2387	2400	1	1	2392.044	47.31	/	-16	Pass
2483.5	2496.5	1	1	2483.500	21.85	/	-16	Pass
2496.5	12500	1	1	12173.000	48.28	/	-26	Pass

802.11n(HT20)_2472MHz_Ant2 (SISO)_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	2387	1	1	173.000	41.95	/	-26	Pass
2387	2400	1	1	2399.493	45.46	/	-16	Pass
2483.5	2496.5	1	1	2483.526	22.31	/	-16	Pass
2496.5	12500	1	1	2504.500	47.16	/	-26	Pass

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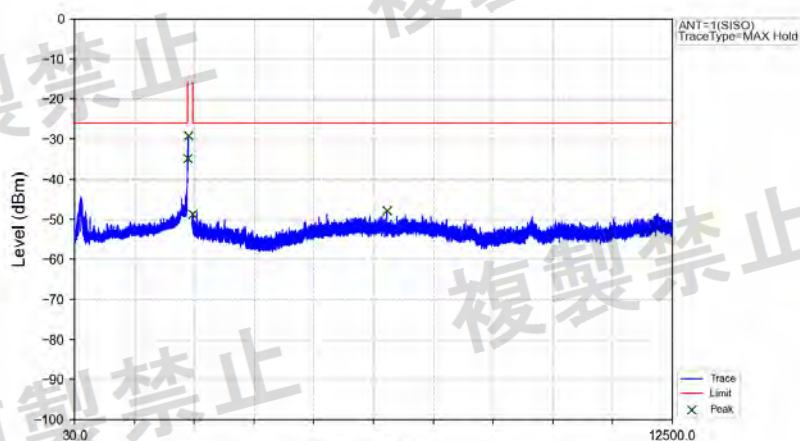
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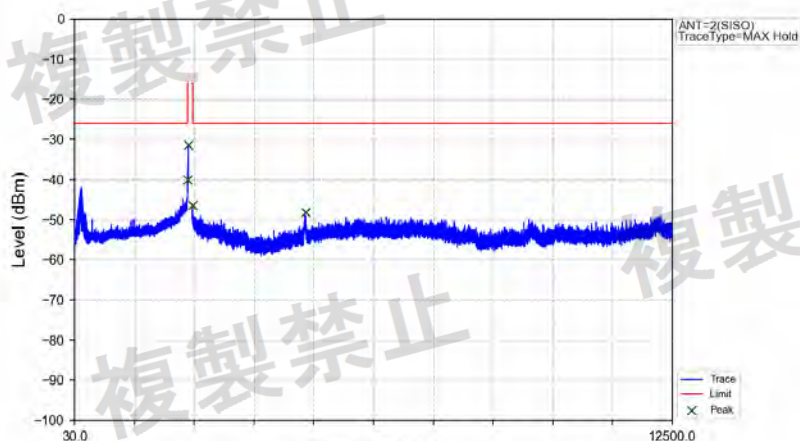
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802.11n(HT40)_2422MHz_Ant1 (SISO)_NTNV



Frequency (MHz)									
Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result	
30	2387	1	1	2386.500	-34.74	/	-26	Pass	
2387	2400	1	1	2397.517	-29.11	/	-16	Pass	
2483.5	2496.5	1	1	2484.215	-48.64	/	-16	Pass	
2496.5	12500	1	1	6547.000	-47.76	/	-26	Pass	

802.11n(HT40)_2422MHz_Ant2 (SISO)_NTNV



Frequency (MHz)									
Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result	
30	2387	1	1	2387.000	-39.98	/	-26	Pass	
2387	2400	1	1	2399.610	-31.35	/	-16	Pass	
2483.5	2496.5	1	1	2487.751	-46.30	/	-16	Pass	
2496.5	12500	1	1	4843.000	-48.16	/	-26	Pass	

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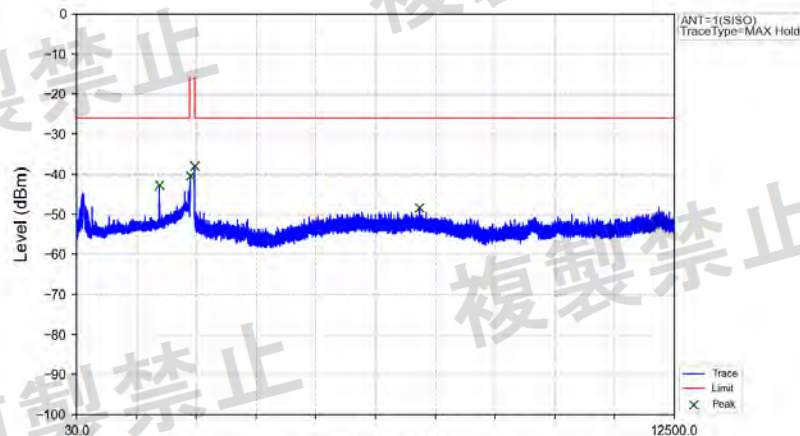
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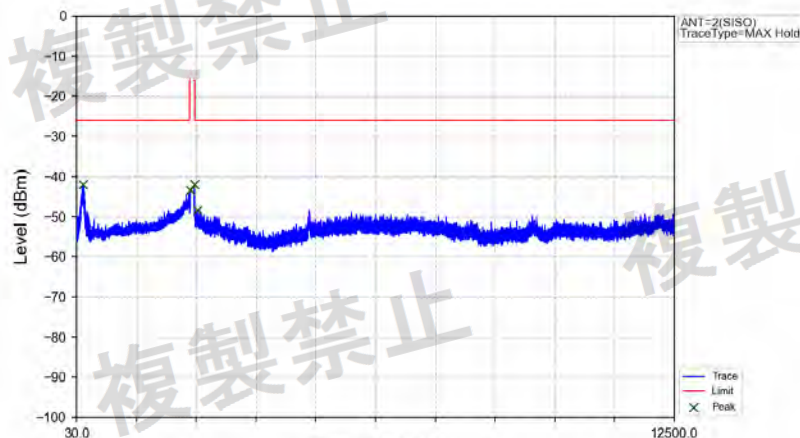
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802.11n(HT40)_2442MHz_Ant1 (SISO)_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	2387	1	1	1753.000	-42.67	/	-26	Pass
2387	2400	1	1	2399.981	-40.43	/	-16	Pass
2483.5	2496.5	1	1	2486.516	-37.84	/	-16	Pass
2496.5	12500	1	1	7185.500	-48.36	/	-26	Pass

802.11n(HT40)_2442MHz_Ant2 (SISO)_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	2387	1	1	167.500	-42.00	/	-26	Pass
2387	2400	1	1	2399.935	-43.38	/	-16	Pass
2483.5	2496.5	1	1	2485.879	-41.99	/	-16	Pass
2496.5	12500	1	1	2548.500	-48.24	/	-26	Pass

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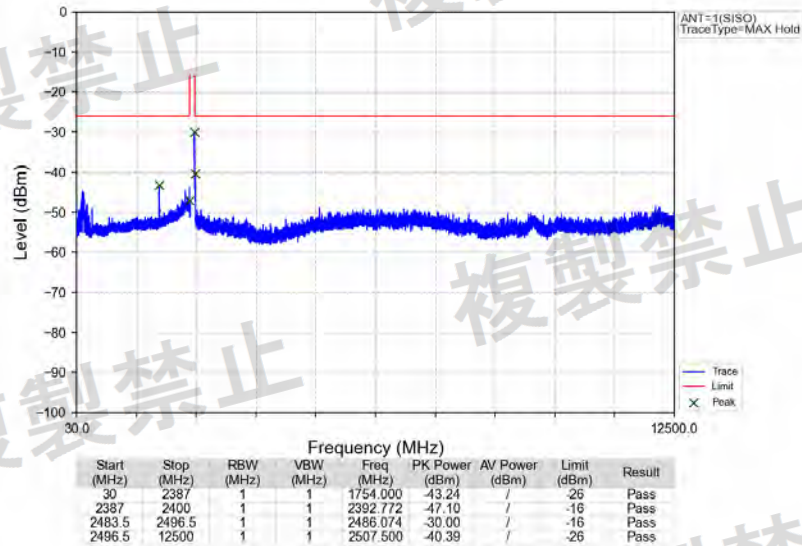
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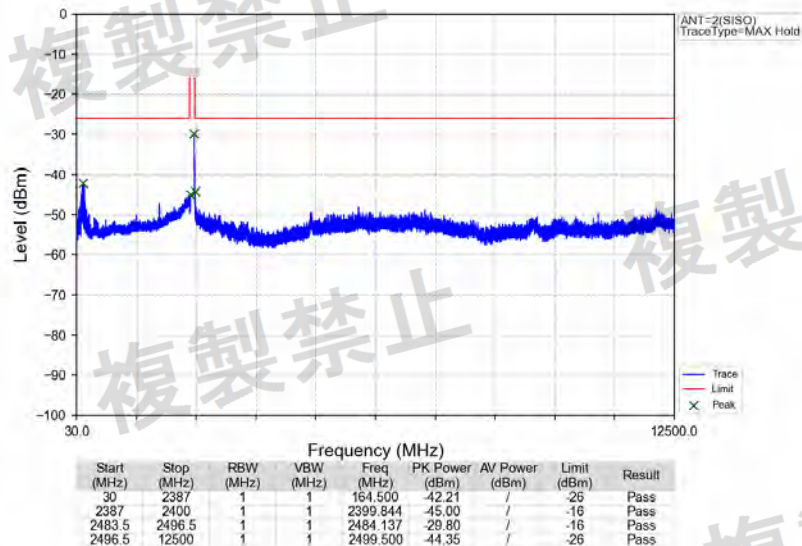
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802.11n(HT40)_2462MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_2462MHz_Ant2 (SISO)_NTNV



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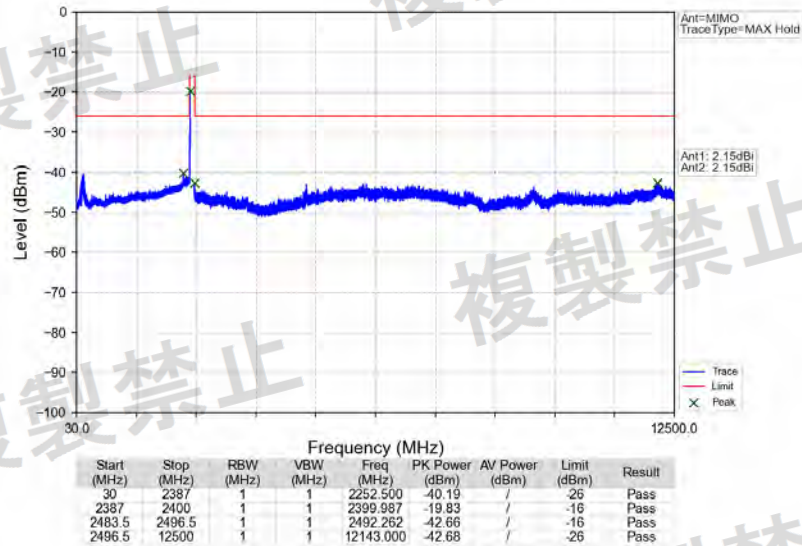
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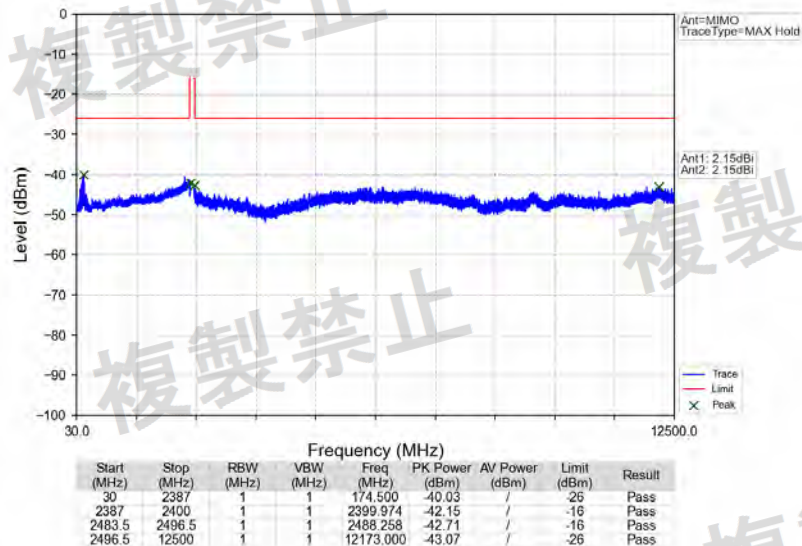
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802.11n(HT20)_2412MHz_MIMO_NTNV



802.11n(HT20)_2442MHz_MIMO_NTNV



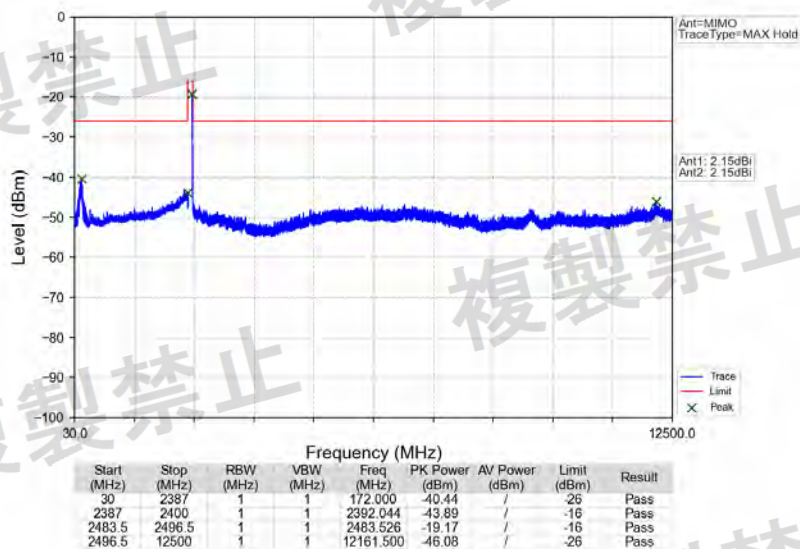
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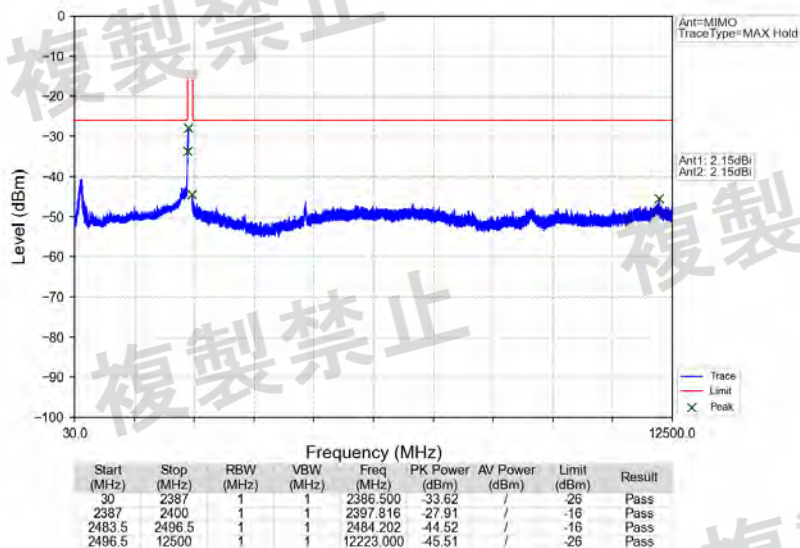
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802.11n(HT20)_2472MHz_MIMO_NTNV



802.11n(HT40)_2422MHz_MIMO_NTNV



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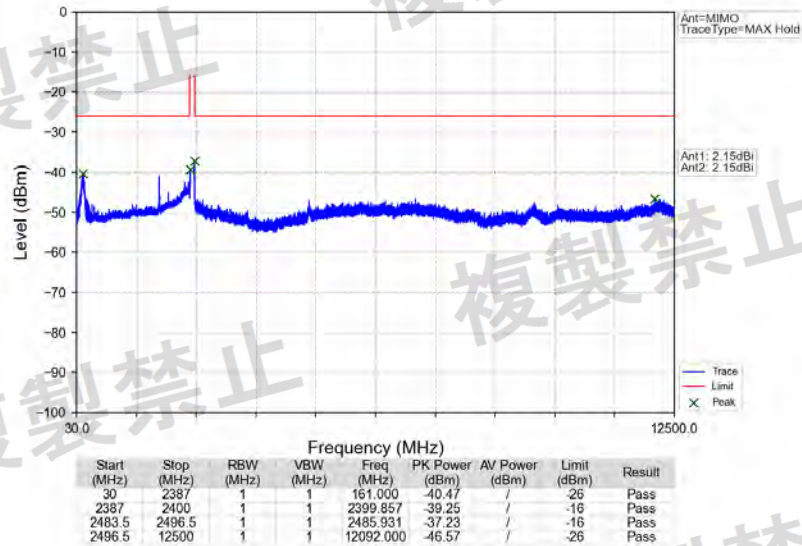
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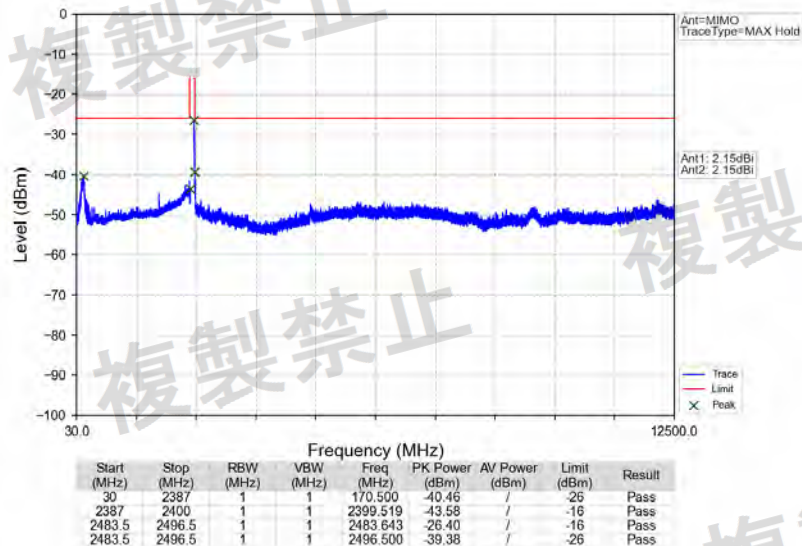
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802.11n(HT40)_2442MHz_MIMO_NTNV



802.11n(HT40)_2462MHz_MIMO_NTNV



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6. Secondary Radiated Emission

6.1 RXSE

6.1.1 Test Result

ENV	Mode	TX Type	Frequency (MHz)	ANT	Test Result	Limit	Verdict
NTNV	802.11b	SISO	2412	1	Refer To Test Graph		Pass
				2	Refer To Test Graph		Pass
			2442	1	Refer To Test Graph		Pass
				2	Refer To Test Graph		Pass
			2472	1	Refer To Test Graph		Pass
				2	Refer To Test Graph		Pass
	802.11g	SISO	2412	1	Refer To Test Graph		Pass
				2	Refer To Test Graph		Pass
			2442	1	Refer To Test Graph		Pass
				2	Refer To Test Graph		Pass
			2472	1	Refer To Test Graph		Pass
				2	Refer To Test Graph		Pass
	802.11n (HT20)	SISO	2412	1	Refer To Test Graph		Pass
				2	Refer To Test Graph		Pass
			2442	1	Refer To Test Graph		Pass
				2	Refer To Test Graph		Pass
			2472	1	Refer To Test Graph		Pass
				2	Refer To Test Graph		Pass
	802.11n (HT40)	SISO	2422	1	Refer To Test Graph		Pass
				2	Refer To Test Graph		Pass
			2442	1	Refer To Test Graph		Pass
				2	Refer To Test Graph		Pass
			2462	1	Refer To Test Graph		Pass
				2	Refer To Test Graph		Pass
	802.11n (HT20)	MIMO	2412	MIMO	Refer To Test Graph		Pass
			2442	MIMO	Refer To Test Graph		Pass
			2472	MIMO	Refer To Test Graph		Pass
	802.11n (HT40)	MIMO	2422	MIMO	Refer To Test Graph		Pass
			2442	MIMO	Refer To Test Graph		Pass
			2462	MIMO	Refer To Test Graph		Pass



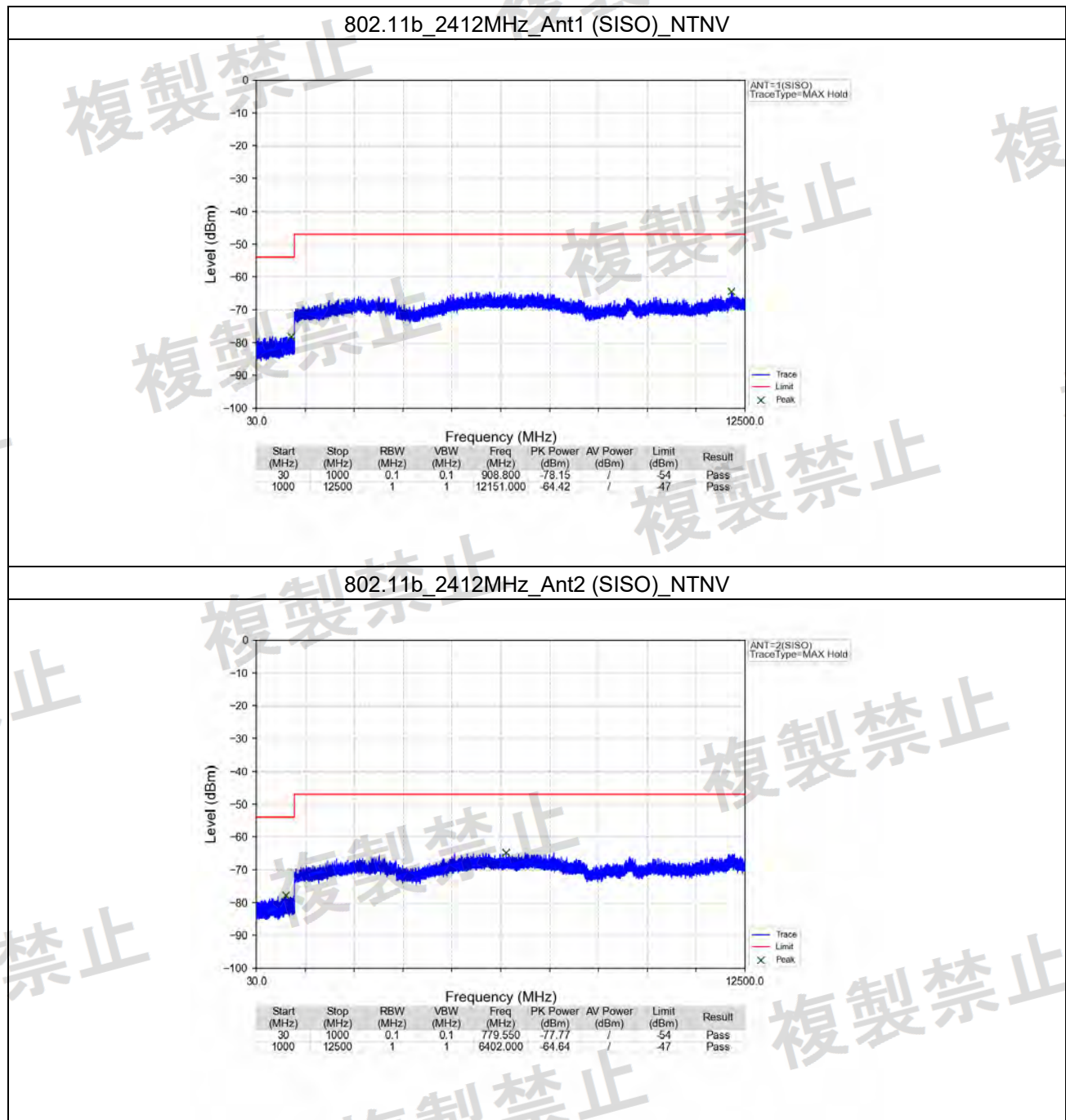
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6.1.2 Test Graph



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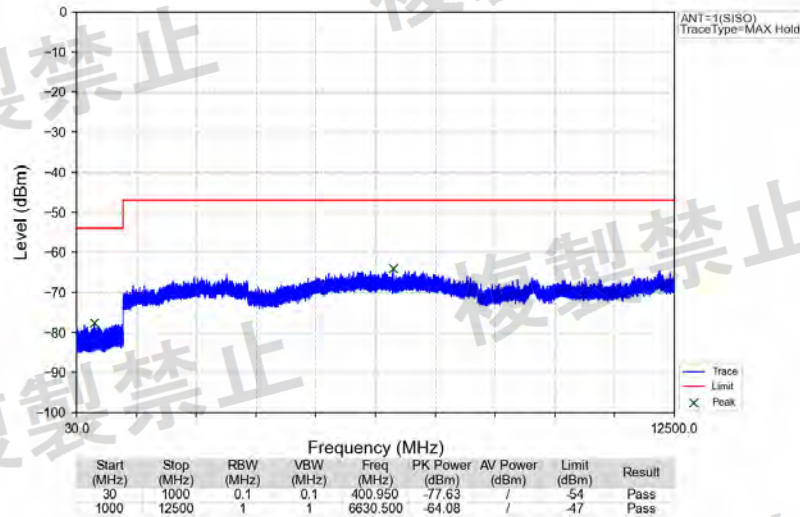
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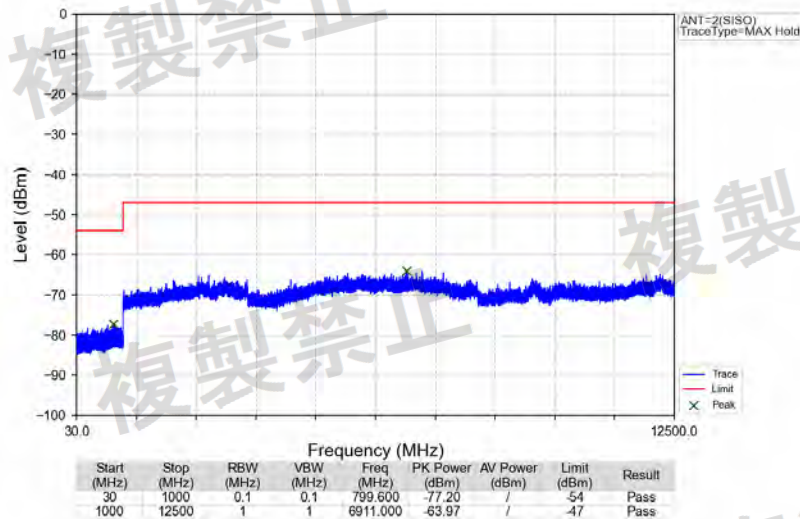
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802.11b_2442MHz_Ant1 (SISO)_NTNV



802.11b_2442MHz_Ant2 (SISO)_NTNV



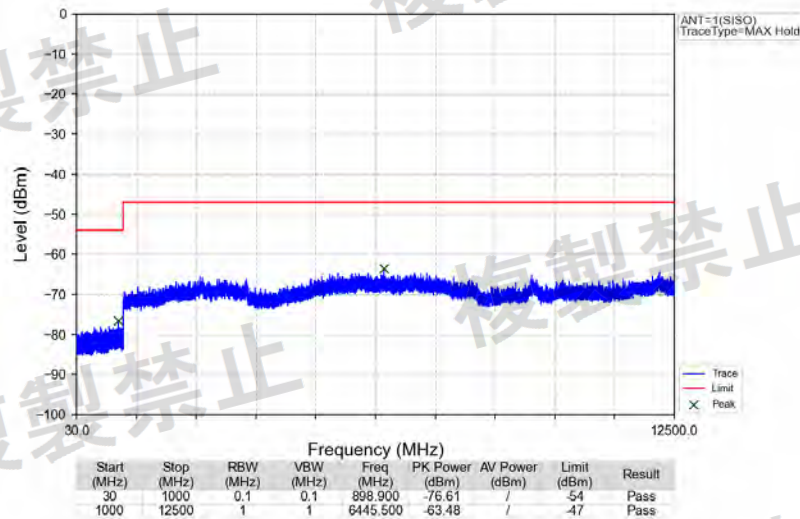
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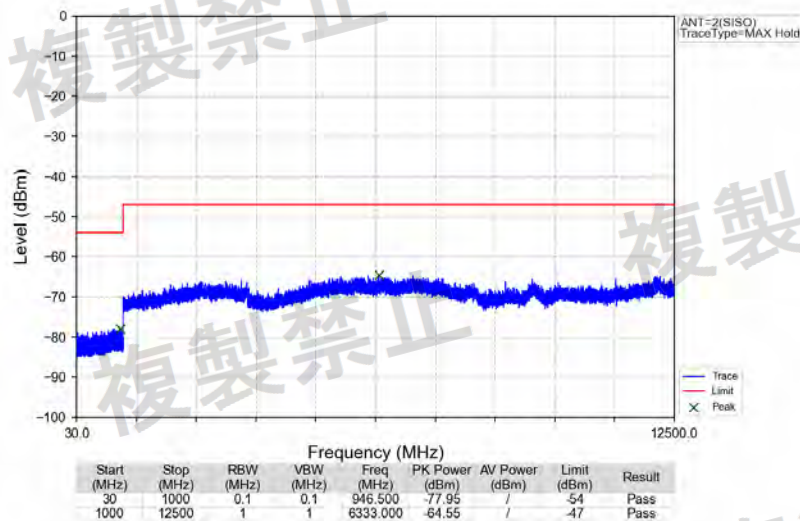
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802.11b_2472MHz_Ant2 (SISO)_NTNV



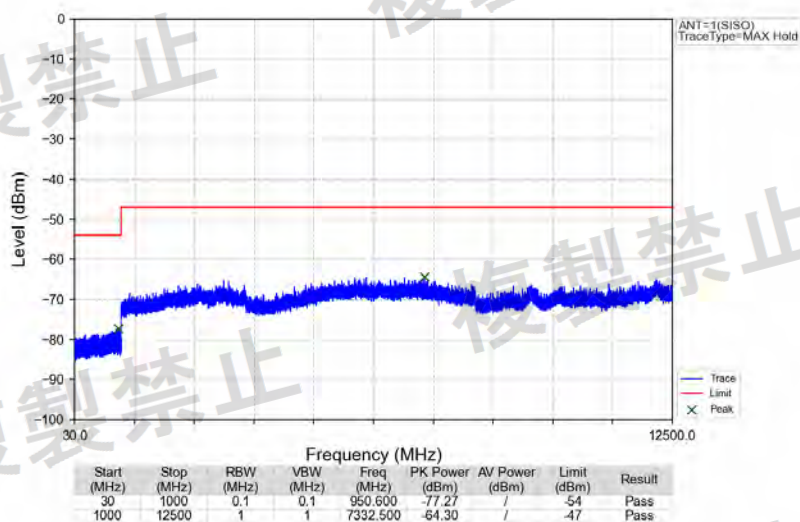
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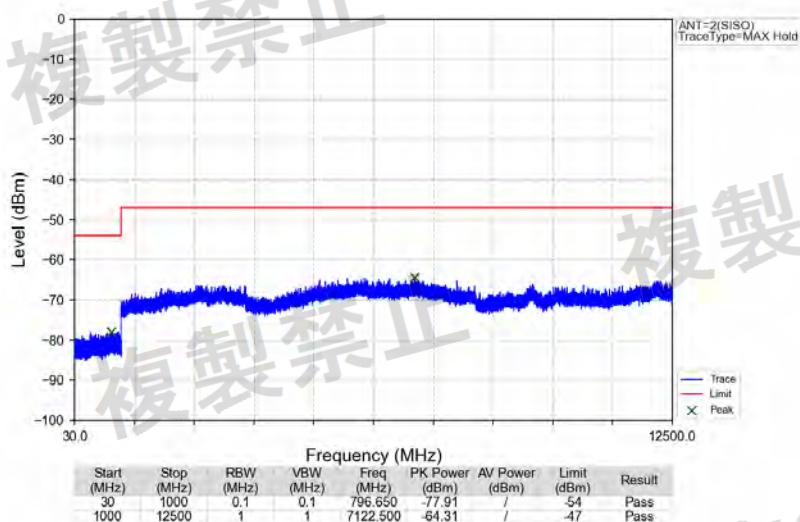
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802.11g_2412MHz_Ant2 (SISO)_NTNV



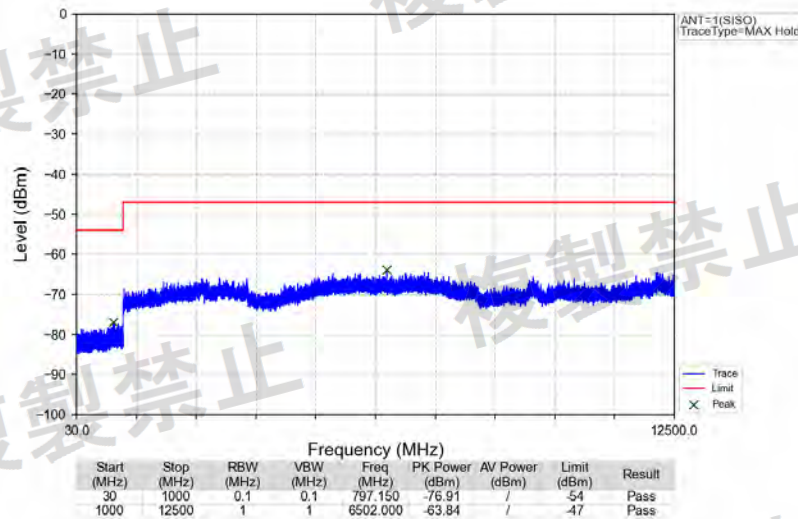
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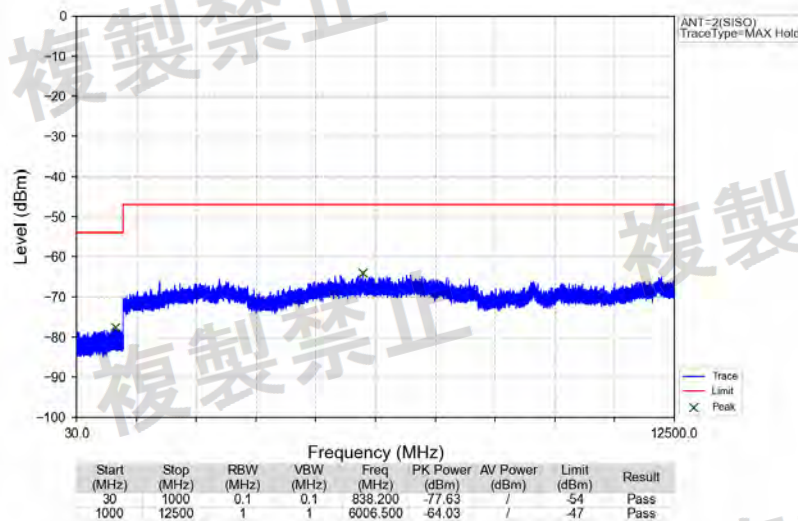
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802.11g_2442MHz_Ant2 (SISO)_NTNV



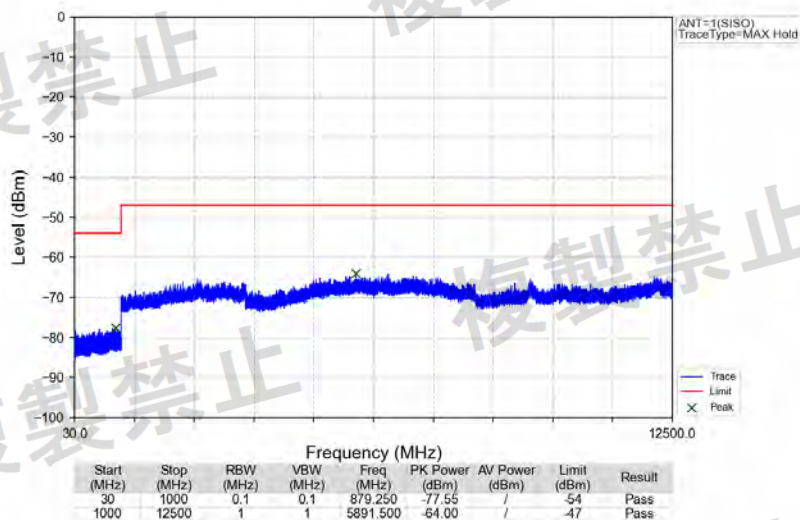
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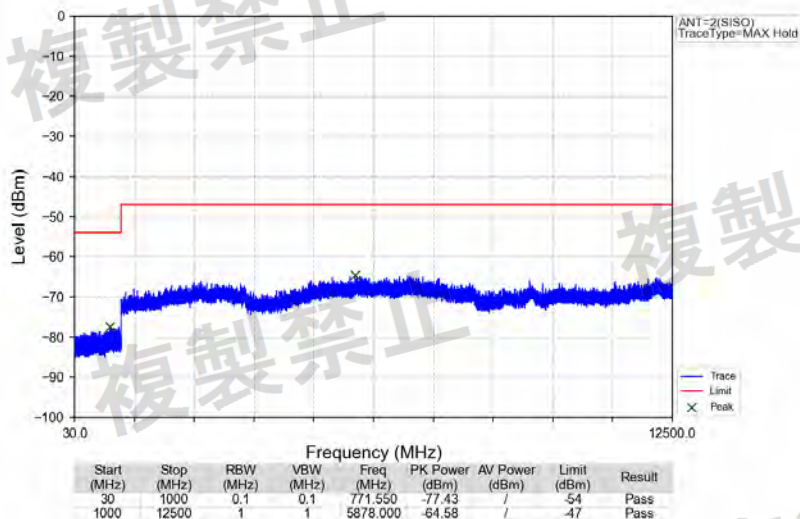
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802.11g_2472MHz_Ant2 (SISO)_NTNV



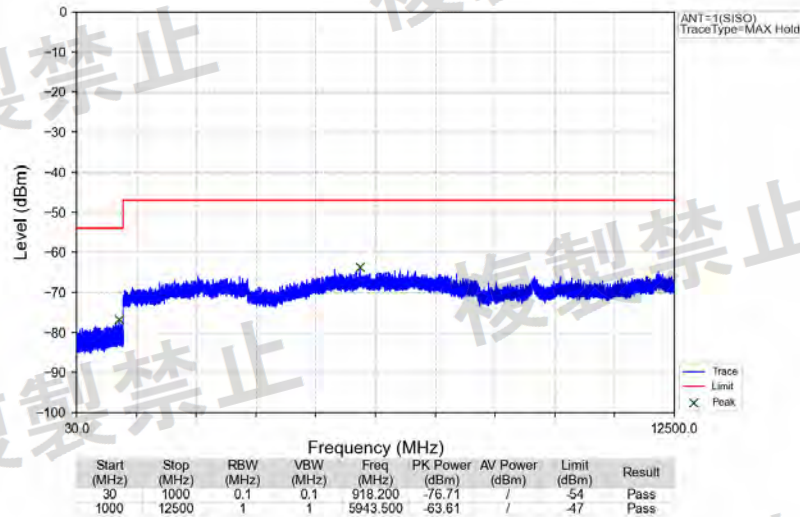
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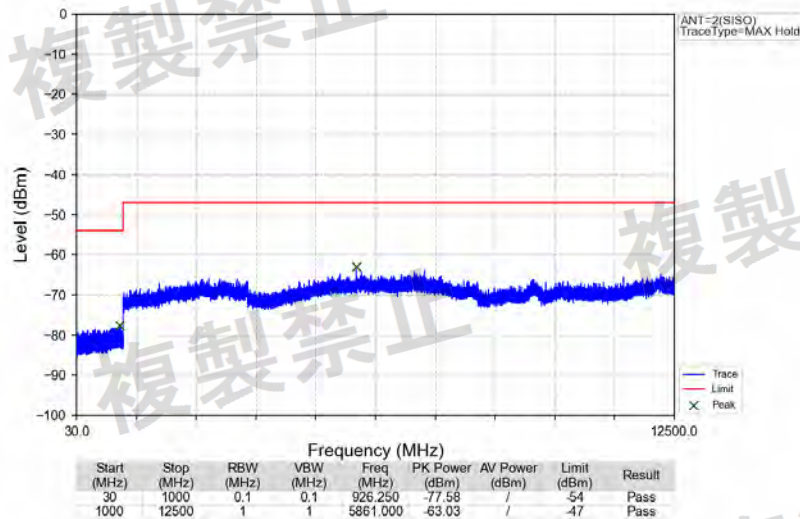
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802.11n(HT20)_2412MHz_Ant2 (SISO)_NTNV



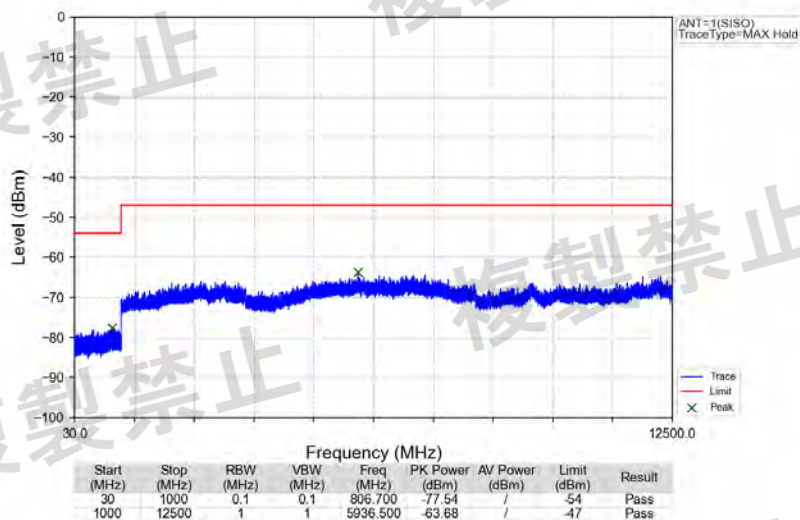
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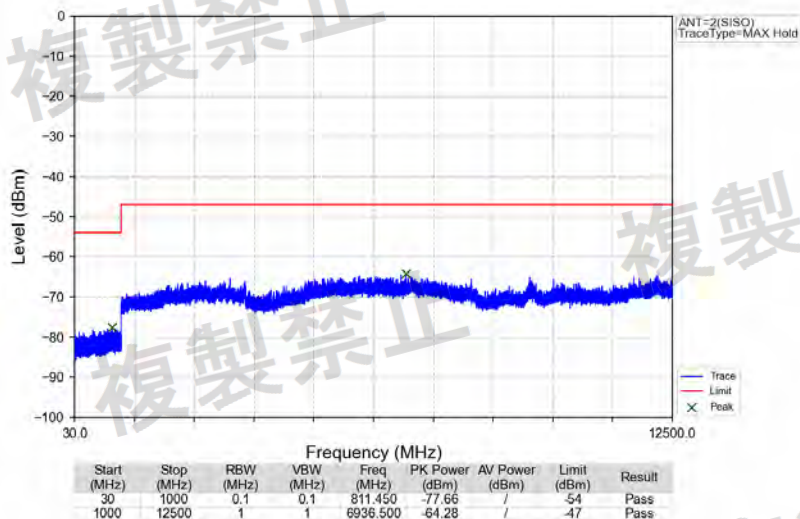
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802.11n(HT20)_2442MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_2442MHz_Ant2 (SISO)_NTNV



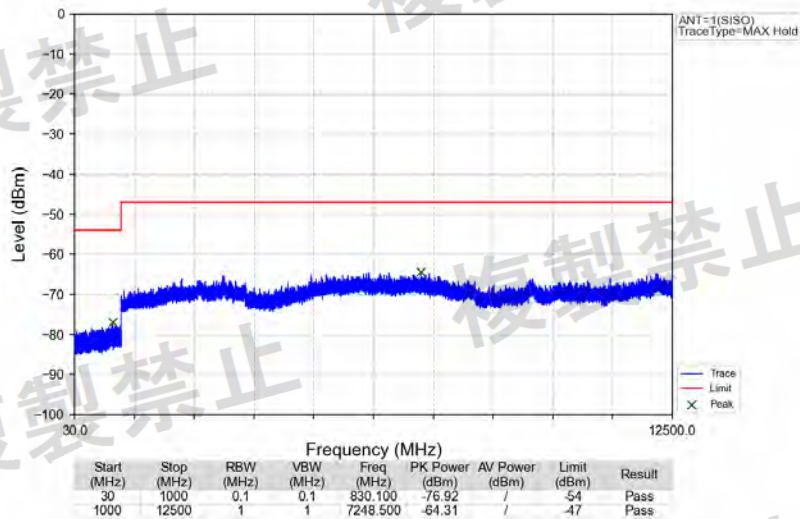
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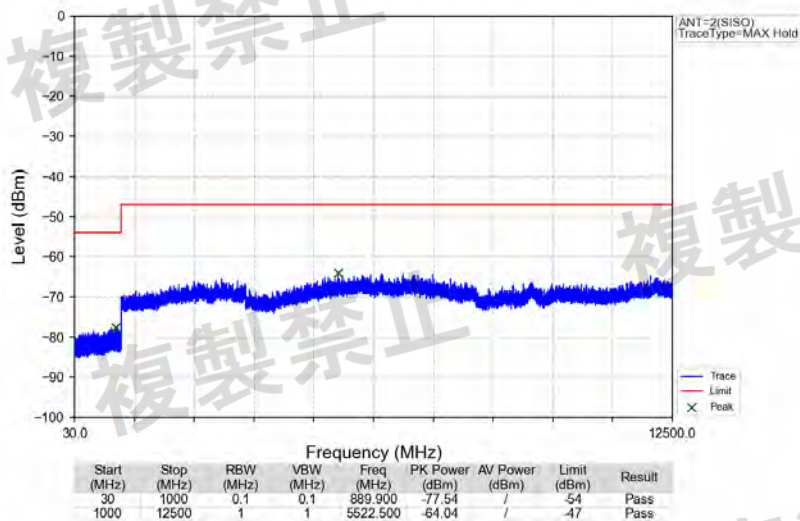
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802.11n(HT20)_2472MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_2472MHz_Ant2 (SISO)_NTNV



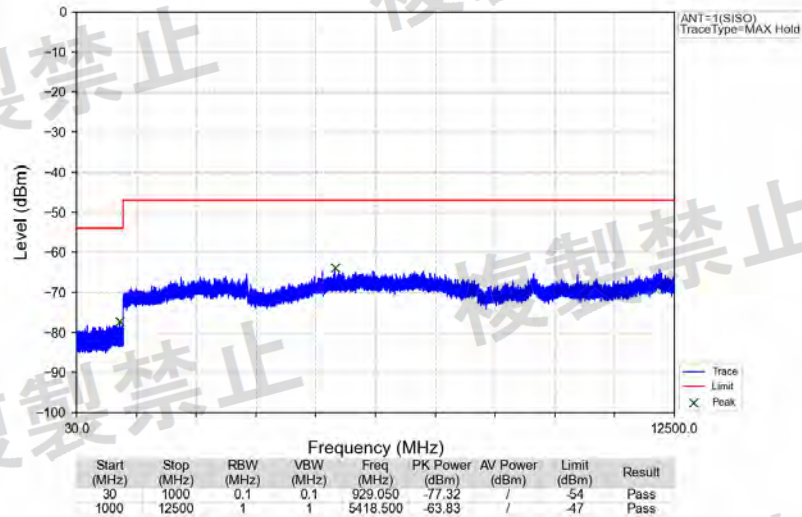
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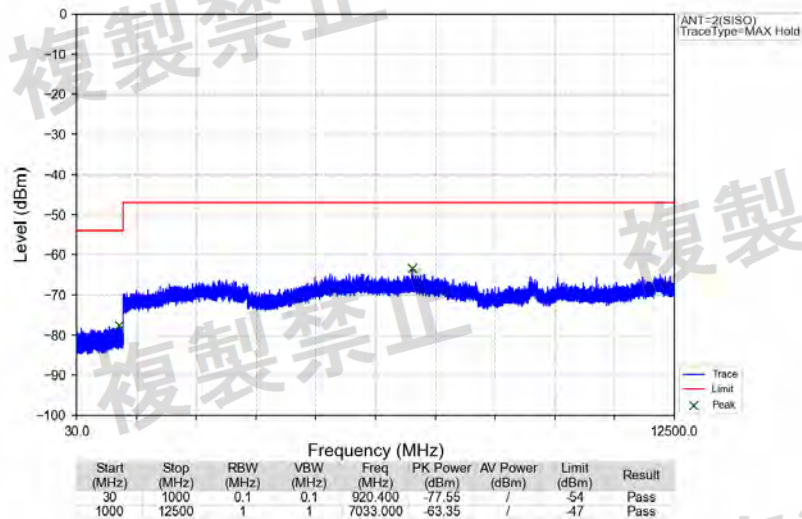
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802.11n(HT40)_2422MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_2422MHz_Ant2 (SISO)_NTNV



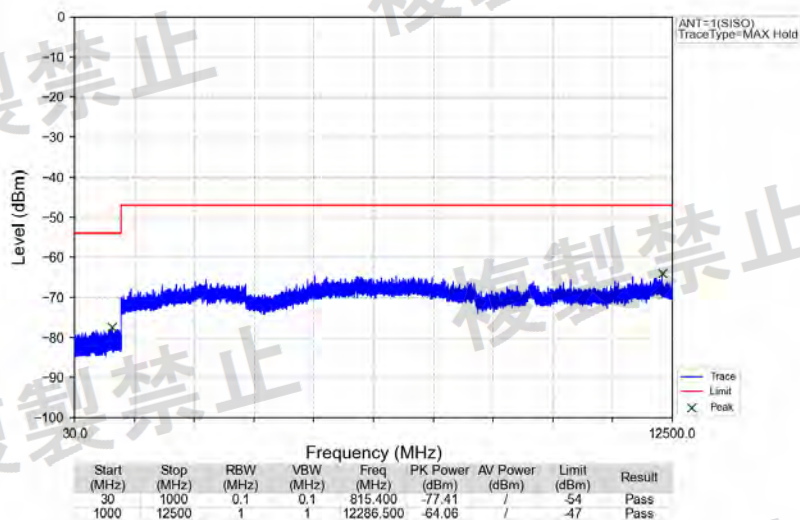
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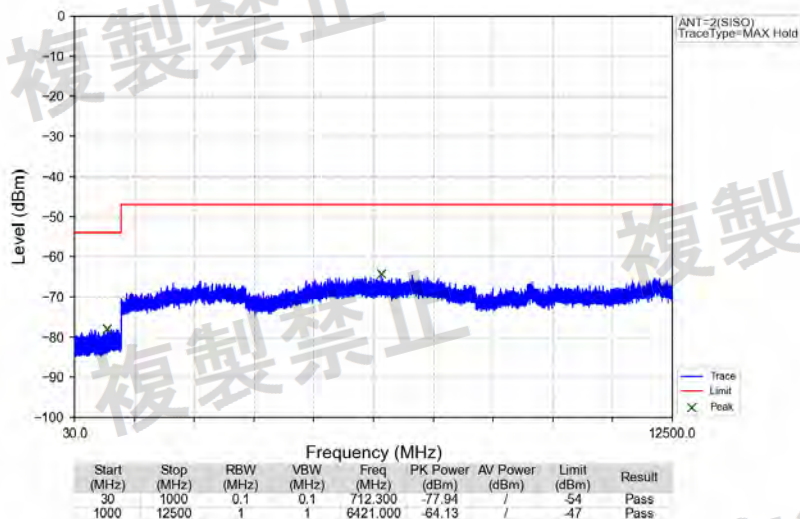
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802.11n(HT40)_2442MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_2442MHz_Ant2 (SISO)_NTNV



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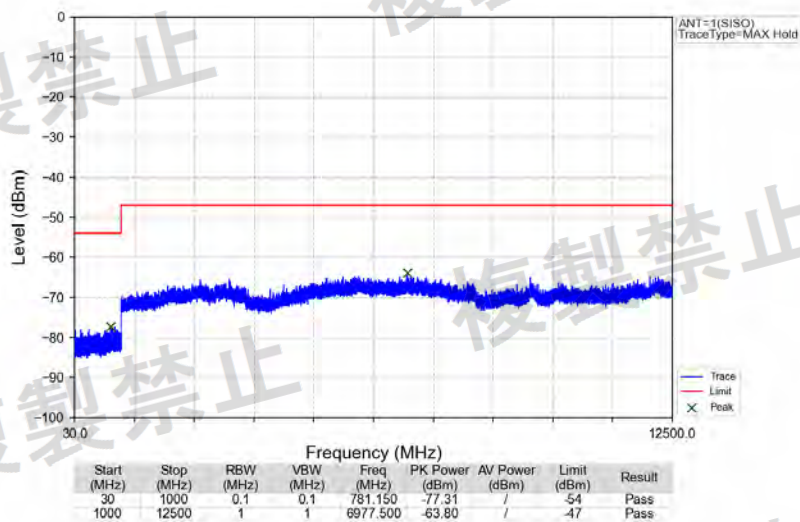
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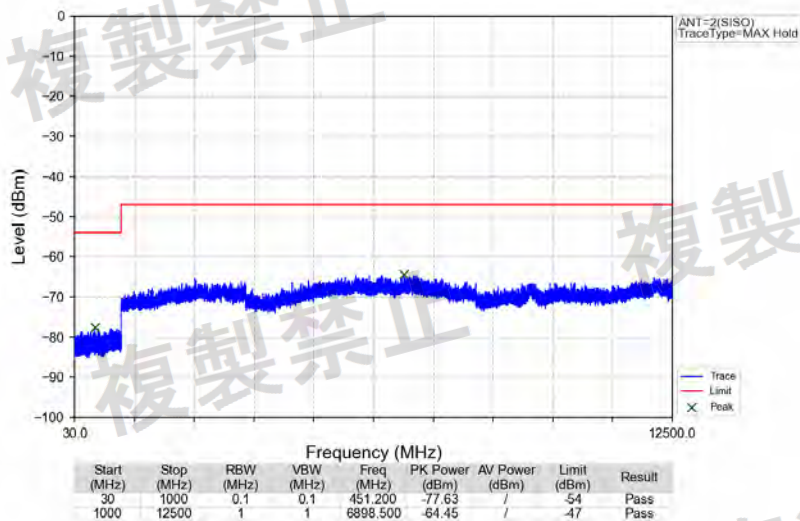
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802.11n(HT40)_2462MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_2462MHz_Ant2 (SISO)_NTNV



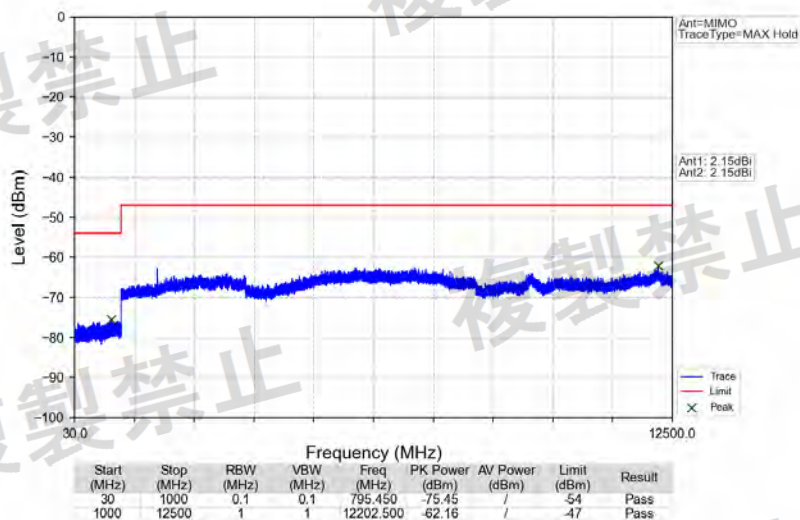
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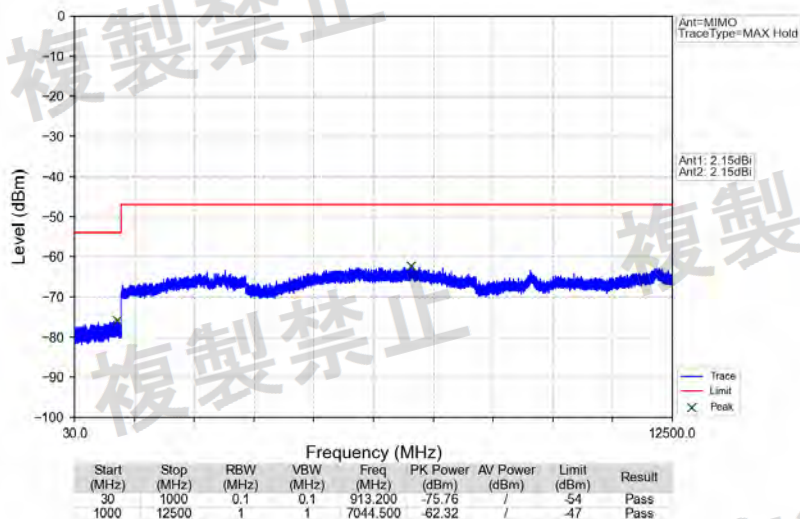
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802.11n(HT20)_2412MHz_MIMO_NTNV



802.11n(HT20)_2442MHz_MIMO_NTNV



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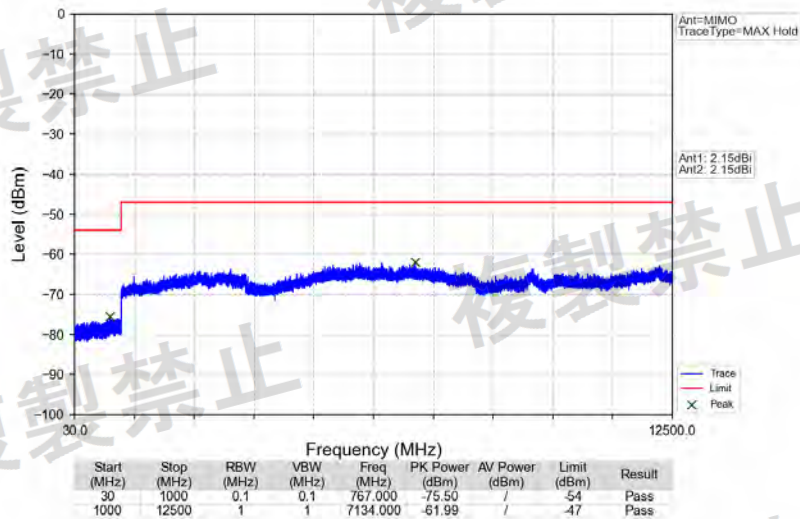
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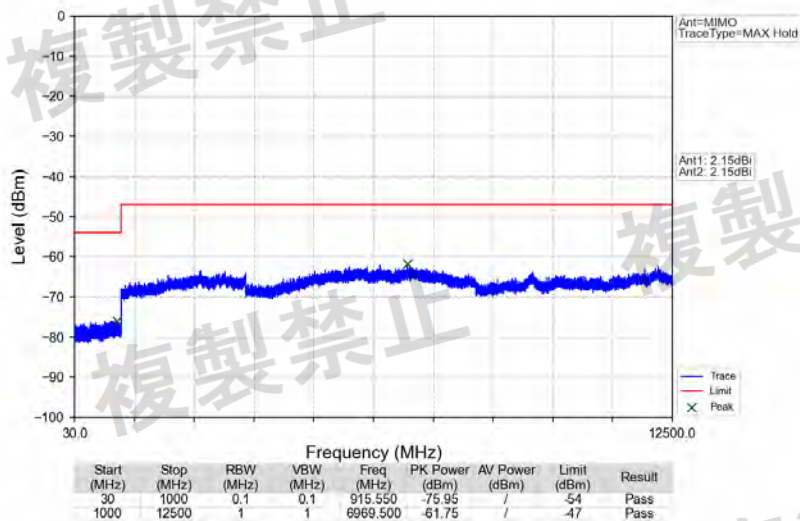
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802.11n(HT20)_2472MHz_MIMO_NTNV



802.11n(HT40)_2422MHz_MIMO_NTNV



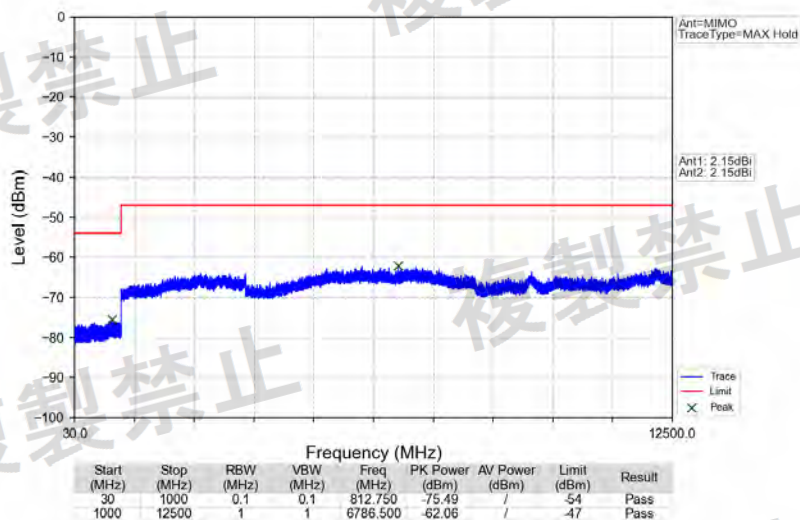
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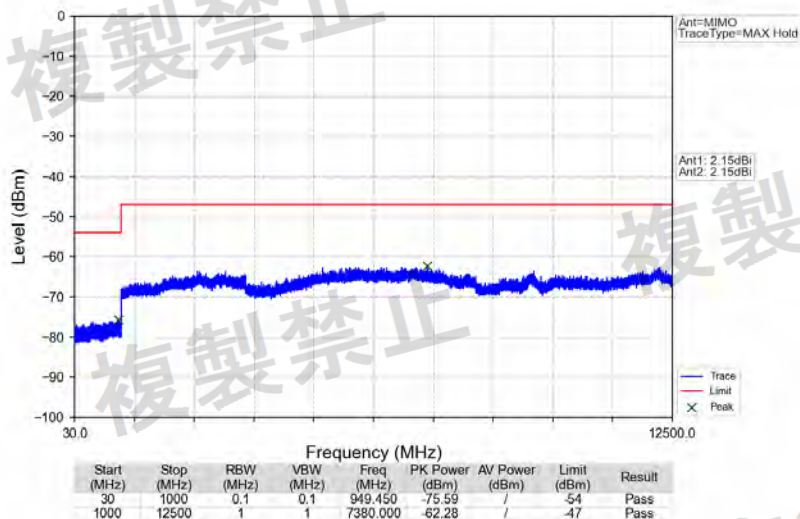
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- End of the Report -

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