

TEST REPORT

Application No.: SZCR2603001108HS
Applicant: Vesync Japan Corporation
Address of Applicant: (101-0052) 9F, 3-2-1, Kanda Ogawa-Cho, Chiyoda City, Tokyo, Japan
Manufacturer: Vesync Japan Corporation
Address of Manufacturer: (101-0052) 9F, 3-2-1, Kanda Ogawa-Cho, Chiyoda City, Tokyo, Japan
Equipment Under Test (EUT):
EUT Name: levoit vital™ Pet Pro Air Purifier
Model No.: LAP-P501S-WJP
Trade Mark: Levoit, Levoit Vital
Standard(s) : MIC Item 19 of Article 2 Paragraph 1, Radio Equipment Regulation Article 49-20
Date of Receipt: 2026-03-20
Date of Test: 2026-03-27 to 2026-06-03
Date of Issue: 2026-06-04

Test Result:	Pass*
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* In the configuration tested, the EUT complied with the standards specified above.

Keny Xu
Ken Xu
EMC Laboratory Manager



SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

SZEMC-TRF-01 Rev. A/2

Report No.: SZCR260300110802

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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2026-06-04		Original

Authorized for issue by:			
		Martin Tang	
		Martin Tang/Project Engineer	
		Eric Fu	
		Eric Fu/Reviewer	



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Shenzhen Branch (Shenzhen) Laboratory

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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, Radio Equipment Regulation Article 49-20	N/A	MIC Item 19 of Article 2 Paragraph 1	Pass
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, Radio Equipment Regulation Article 49-20	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
Carrier sense capability		MIC Notice No.88 Appendix No.43	MIC Item 19 of Article 2 Paragraph 1	Pass

Remark:

Model No.: LAP-P501S-WJP

Only the model LAP-P501S-WJP (with adapter 1, motor 1) was tested in this report.

Additionally, based on the model LAP-P501S-WJP changed the adapter and motor.

Considering to the difference, There is no impact on RF performance. According to an evaluation based on the detailed difference and the same RF module show that the RF performance should be the same.



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3 General Information

3.1 Details of E.U.T.

Power Supply:	Input: DC 24V,2A via AC/DC adapter; Rated power:39W Adapter 1 model: GQ48-240200-BJ Input:AC100-240V,50/60Hz,1.5A Max; Output: DC 24.0V,2.0A Adapter 2 model:ZD060CB240200JP Input:AC100-240V,50/60Hz,1.5A; Output: DC 24.0V,2000mA
Cable(s):	Undetachable DC cable(adapter):about1.85m unshielded
Cable Loss (for RF conducted test):	0.5dB
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:	PCB Antenna
Antenna Gain:	0.9 dBi
Power Class:	test software setting 80211b:28 802.11g:16 802.11n(HT20):16 802.11n(HT40):16

Remark: The information in this section is provided by the applicant or manufacturer, SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.

3.2 Test Conditions

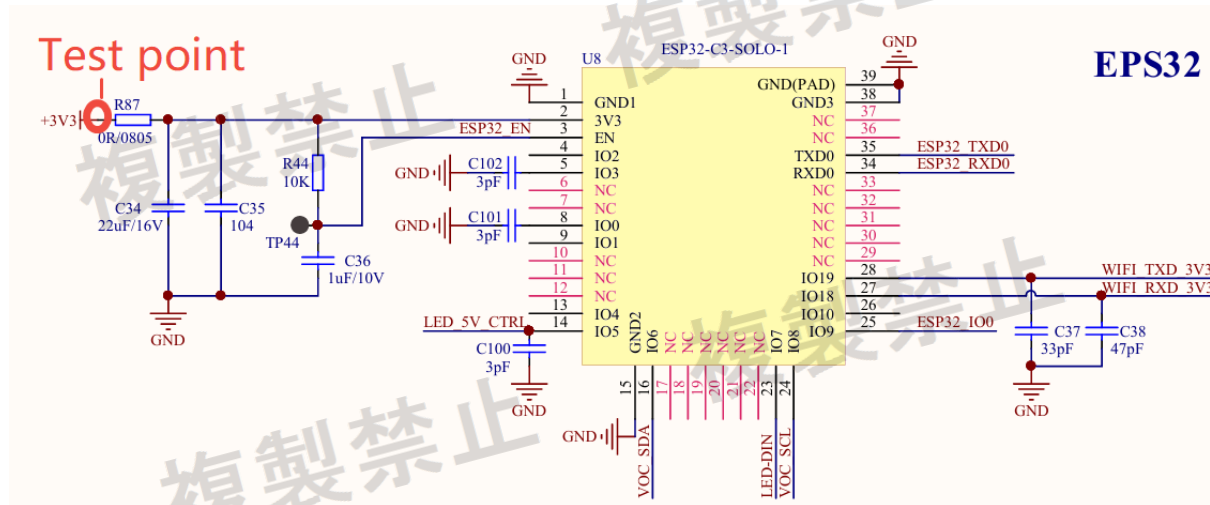
Power Supply AC 100V/50Hz

The RF unit is supplied DC 3.3V. The fluctuation of input voltage to the circuit of RF unit of test equipment is under $\pm 1\%$, when input voltage from AC 100V/50Hz to the test equipment is fluctuated by $\pm 10\%$. So, all measurement has been conducted by only rated voltage.

The measurement result of the voltage fluctuation at RF circuit when DC 100V +/- 10%.		
DC Input	input voltage to the circuit	Voltage Fluctuation (%)
110V	3.3V	0
100V	3.3V	0
90V	3.3V	0

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Temperature: 5-35 °C
Humidity: 45-85 % RH
Atmospheric Pressure: 1000 -1020 mbar

Note:

VN: Normal Voltage
TN: Normal Temperature
TL: Low Extreme Test Temperature
TH: High Extreme Test Temperature

Test Frequencies: If the EUT can be set to 3 or 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.

3.3 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
--	--	--	--
The EUT has been tested as an independent unit.			

3.4 Measurement Uncertainty

Test Item	Measurement Uncertainty
Frequency Error	$\pm 7.25E-8$
Occupied Bandwidth(99%)	$\pm 3\%$
Spread spectrum Bandwidth(90%)	$\pm 3\%$
Antenna Power	$\pm 0.75\text{dB}$
Spurious emission Intensity	$\pm 0.75\text{dB}$
Limit of secondary radiated emissions	$\pm 0.75\text{dB}$

Remark:

The U_{lab} (lab Uncertainty) is less than $U_{\text{CISPR/ETSI}}$ (CISPR/ETSI Uncertainty), so the test results
– compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;
– non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.

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3.5 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen Branch

No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China. 518057.

Tel: +86 755 2601 2053 Fax: +86 755 2671 0594

No tests were sub-contracted.

3.6 Test Facility

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

• **A2LA (Certificate No. 3816.01)**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation (A2LA). Certificate No. 3816.01.

• **VCCI (Member No. 1937)**

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen EMC laboratory have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

• **FCC –Designation Number: CN1336**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1336. Test Firm Registration Number: 787754.

• **Innovation, Science and Economic Development Canada**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006.

IC#: 4620C.

3.7 Deviation from Standards

None

3.8 Abnormalities from Standard Conditions

None



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4 Equipment List

Equipment list								
Equipment	Manufacturer	Model No	Serial No	Inventory No	Cal Date	Cal Due Date	Calibration body	Classification
DC Power Supply	Chroma	62012P-80-60	62012PD01784	SEM011-11	2025-07-24	2026-07-23	SGS	(c)
MXA Signal Analyzer	KEYSIGHT	N9010B	MY47191130	SEM004-27	2025-09-09	2026-09-08	CEPREI	(c)
MXA Signal Analyzer(10Hz-26.5GHz)	KEYSIGHT	N9020A	MY53300619	SEM004-21	2026-02-03	2027-02-02	CEPREI	(c)
Signal Generator	KEYSIGHT	N5173B	MY53270267	SEM006-05	2025-09-10	2026-09-09	SGS	(c)
Multimeter	FLUKE	Fluke 87	27900002	SEM022-07	2026-02-03	2027-02-02	SGS	(c)
Universal Radio Communication Tester	Rohde & Schwarz	CMW500	152272	SEM010-03	2026-02-03	2027-02-02	CEPREI	(c)
Humidity/Temperature Indicator	deli	8838	8838	SEM002-44	2025-07-23	2026-07-22	SGS	(c)
Barometer	Changchun Meteorological Industry Factory	DYM3	62012PD01784	SEM002-01	2026-02-14	2027-02-13	SGS	(c)
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A	N/A	N/A	N/A
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								

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5.2 Interference prevention capability

5.2.1 Test Requirement:

MIC Item 19 of Article 2 Paragraph 1

Limit:

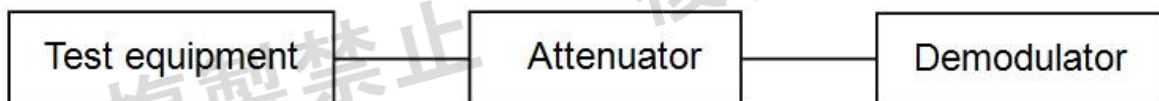
Interference prevention function

The function specified in Article 9-4 of the Ordinance Regulating Radio Equipment

Regulation for Enforcement of the Radio Act / Article 6-2

a function of radio equipment of radio station used within the same premises mainly, which automatically transmits or receives an identification code.

5.2.2 Test Setup Diagram



5.2.3 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:

40:F4:C9:76:99:2D

The unit does meet the requirements (Good).



5.3 RF accessibility

5.3.1 Test Requirement:

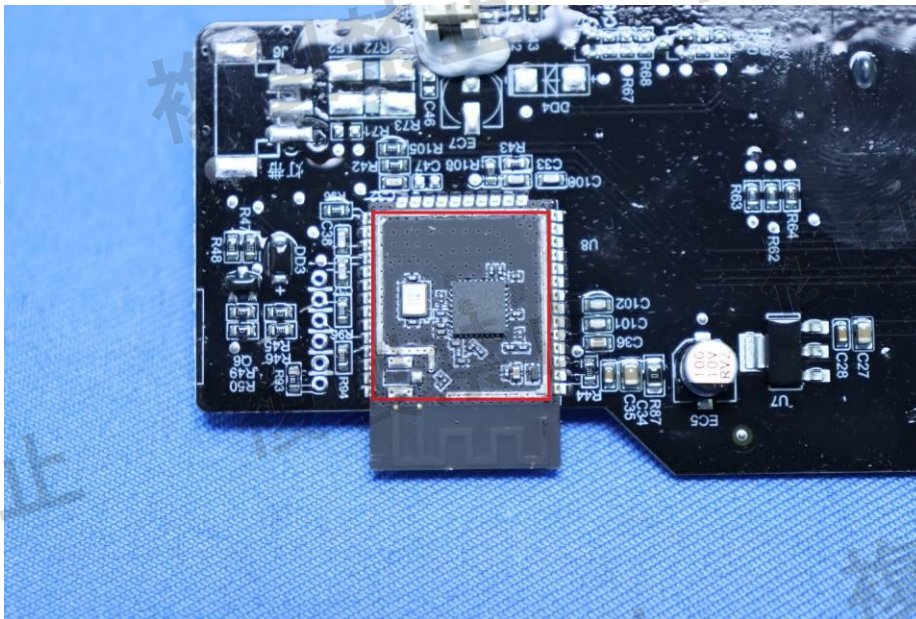
MIC Item 19 of Article 2 Paragraph 1

5.3.2 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:



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.



6 Radio Spectrum Matter Test Results

6.1 Frequency Error

Test Requirement MIC Item 19 of Article 2 Paragraph 1
Test Method: MIC Notice No.88 Appendix No.43
Test Engineer: Mingli Hu

6.1.1 E.U.T. Operation

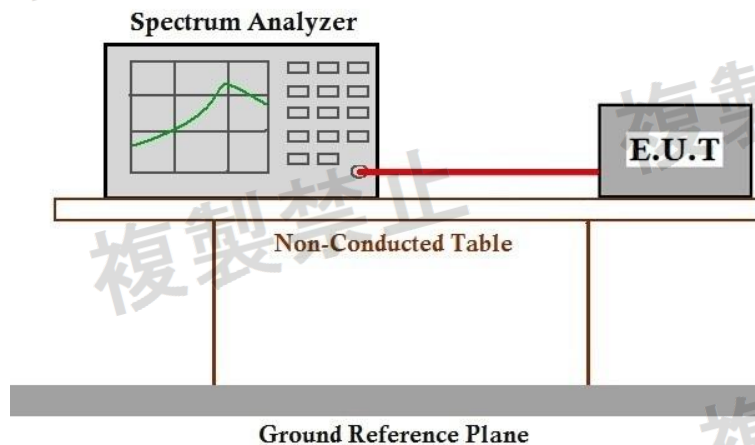
Operating Environment:

Temperature: 23.4 °C Humidity: 47.3 % RH Atmospheric Pressure: 1020 mbar

6.1.1 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	04	TX mode_Keep the EUT(LAP-P501S-WJP with motor 1) 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); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40). Only the data of worst case is recorded in the report(powered by adapter 1).

6.1.2 Test Setup Diagram



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6.1.3 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



6.2 Occupied Bandwidth(99%)

Test Requirement MIC Item 19 of Article 2 Paragraph 1
Test Method: MIC Notice No.88 Appendix No.43
Test Engineer: Mingli Hu

Limit:

FH: 83.5MHz or less

OFDM: 40MHz or less

Others: 26MHz or less

6.2.1 E.U.T. Operation

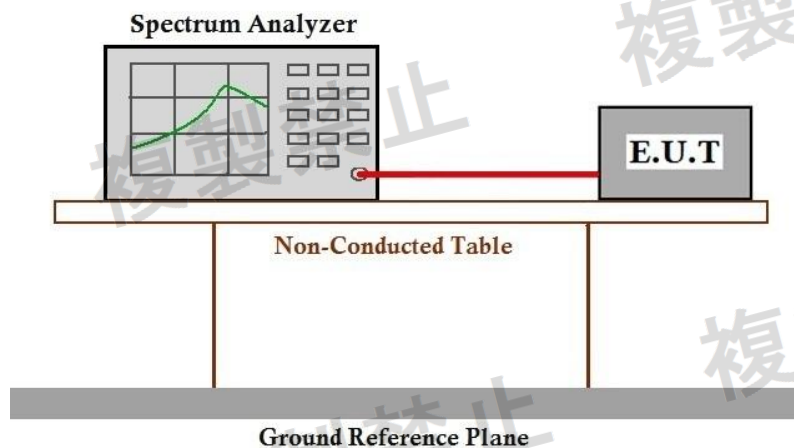
Operating Environment:

Temperature: 23.4 °C Humidity: 47.3 % RH Atmospheric Pressure: 1020 mbar

6.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	04	TX mode_Keep the EUT(LAP-P501S-WJP with motor 1) 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); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40). Only the data of worst case is recorded in the report(powered by adapter 1).

6.2.3 Test Setup Diagram



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6.2.4 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



6.3 Spread spectrum Bandwidth(90%)

Test Requirement MIC Item 19 of Article 2 Paragraph 1
Test Method: MIC Notice No.88 Appendix No.43
Test Engineer: Mingli Hu

6.3.1 E.U.T. Operation

Operating Environment:

Temperature: 23.4 °C

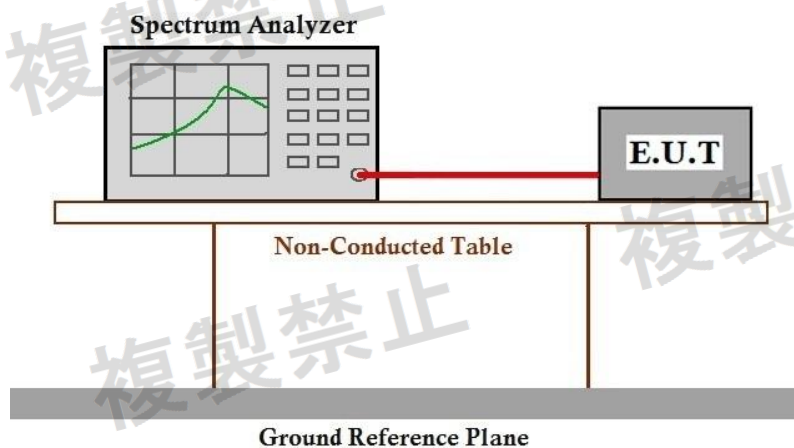
Humidity: 47.3 % RH

Atmospheric Pressure: 1020 mbar

6.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	04	TX mode_Keep the EUT(LAP-P501S-WJP with motor 1) 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); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40). Only the data of worst case is recorded in the report(powered by adapter 1).

6.3.3 Test Setup Diagram



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6.3.4 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%

Spreading Factor= spread bandwidth / (frequency equal to the transmission rate of the modulation signal)

Frequency equal to the transmission rate of the modulation signal:

BPSK,QPSK: 1MHz

CCK: 1.375MHz

Please Refer to Appendix for Details



6.4 Antenna Power

Test Requirement MIC Item 19 of Article 2 Paragraph 1
Test Method: MIC Notice No.88 Appendix No.43
Test Engineer: Mingli Hu

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%

6.4.1 E.U.T. Operation

Operating Environment:

Temperature: 23.4 °C Humidity: 47.3 % RH Atmospheric Pressure: 1020 mbar

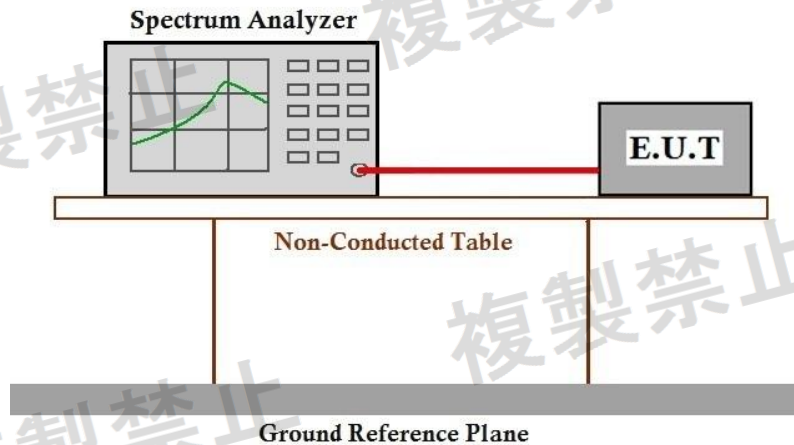
6.4.1 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	04	TX mode Keep the EUT(LAP-P501S-WJP with motor 1) 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); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40). Only the data of worst case is recorded in the report(powerd by adapter 1).

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6.4.2 Test Setup Diagram



6.4.3 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



6.5 Spurious emission Intensity

Test Requirement MIC Item 19 of Article 2 Paragraph 1

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

Test Engineer: Mingli Hu

Limit:

- (1) Below 2387 MHz: 2.5 μ W/MHz
- (2) 2387 to 2400 MHz: 25 μ W/MHz
- (3) 2483.5 through 2496.5 MHz: 25 μ W/MHz
- (4) Over 2496.5 MHz: 2.5 μ W/MHz

6.5.1 E.U.T. Operation

Operating Environment:

Temperature: 23.4 °C

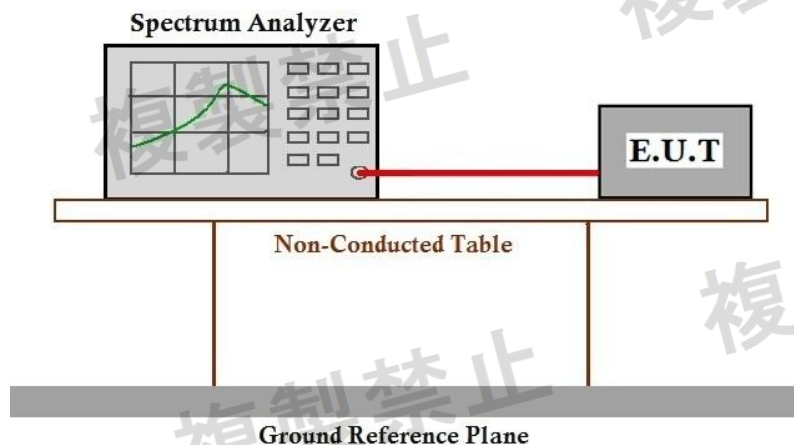
Humidity: 47.3 % RH

Atmospheric Pressure: 1020 mbar

6.5.1 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	04	TX mode_Keep the EUT(LAP-P501S-WJP with motor 1) 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); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40). Only the data of worst case is recorded in the report(powered by adapter 1).

6.5.2 Test Setup Diagram



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6.5.3 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



6.6 Limit of secondary radiated emissions

Test Requirement MIC Item 19 of Article 2 Paragraph 1

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

Test Engineer: Mingli Hu

Limit:

(1) Below 1 GHz : 4 nW or less

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

6.6.1 E.U.T. Operation

Operating Environment:

Temperature: 23.4 °C

Humidity: 47.3 % RH

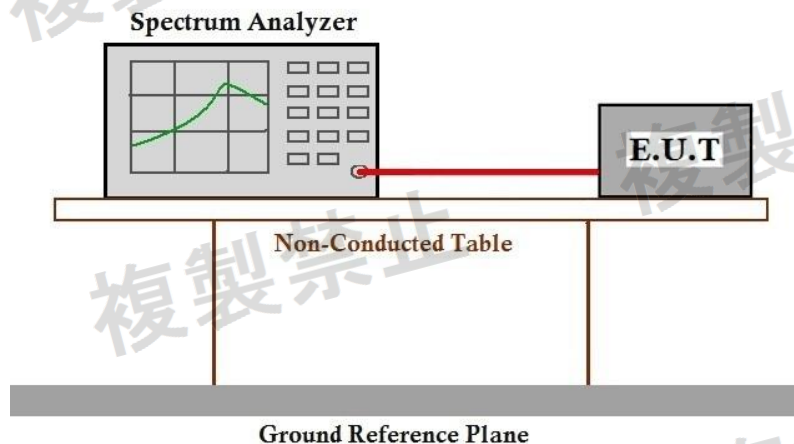
Atmospheric Pressure: 1020 mbar

6.6.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	05	RX_Keep the EUT(LAP-P501S-WJP with motor 1)in receiving mode with all modulation types. Only the data of worst case for 20MHz bandwidth and 40MHz bandwidth is recorded in the report(powered by adapter 1).

6.6.3 Test Setup Diagram

6.6.4



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6.6.5 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



6.7 Carrier sense capability

Test Requirement MIC Item 19 of Article 2 Paragraph 1
Test Method: N/A
Test Engineer: Mingli Hu

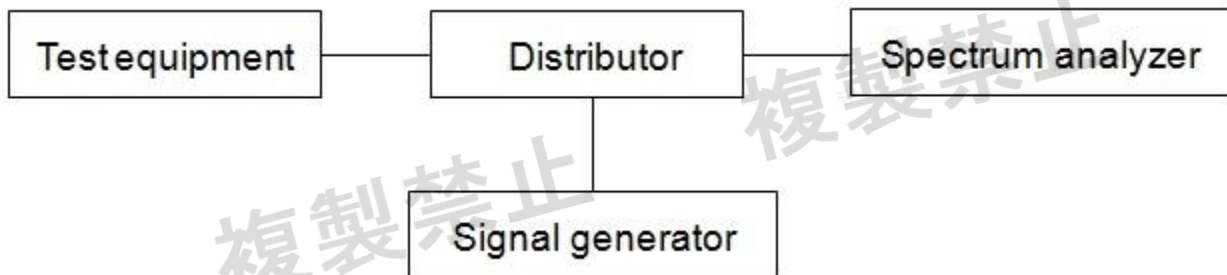
6.7.1 E.U.T. Operation

Operating Environment:
Temperature: 23.3 °C Humidity: 47.9 % RH Atmospheric Pressure: 1020 mbar

6.7.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	06	Normal operating_Keep the EUT communication with the companion device.

6.7.3 Test Setup Diagram



6.7.4 Measurement Procedure and Data

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.

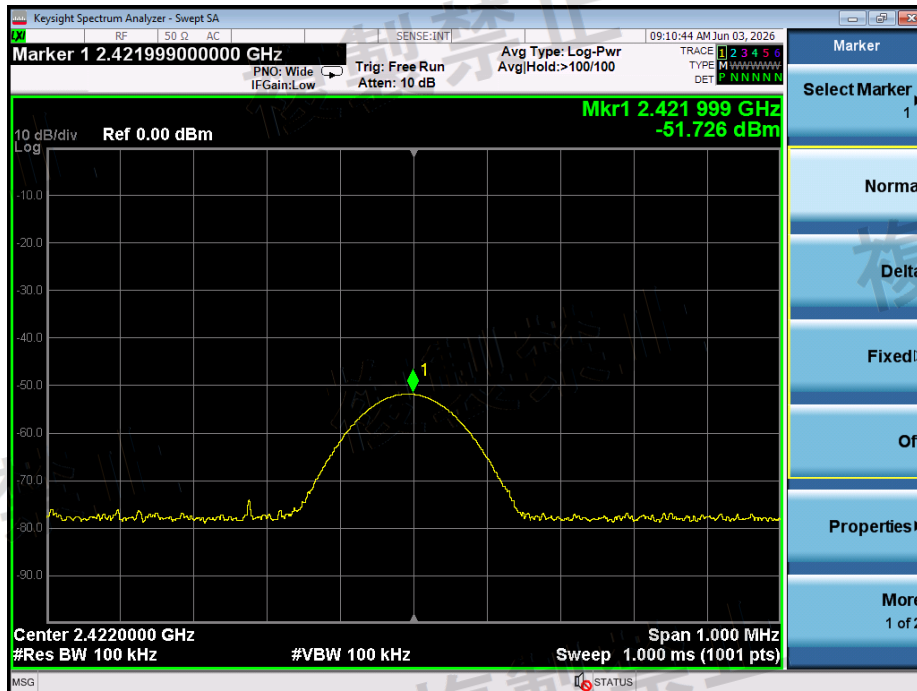
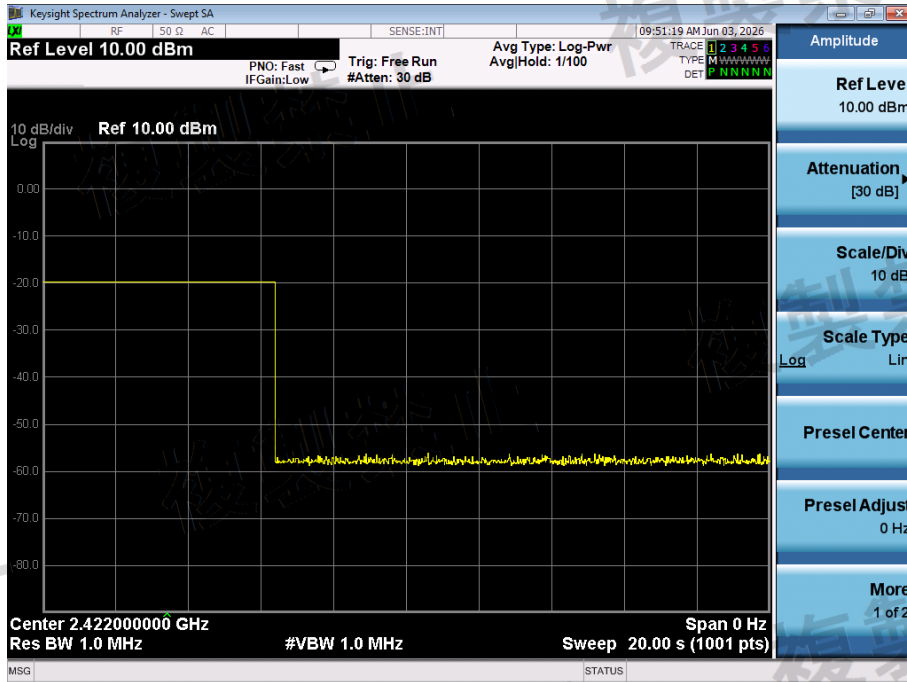
d. With the output of standard signal generator ON, set the test equipment to the transmitting operation, and confirm that it does not emit over 26MHz occupied frequency bandwidth OFDM radio wave, by using spectrum analyzer.

EUT Details:

The unit does meet the requirements (Good).



Test channel: 2422MHz



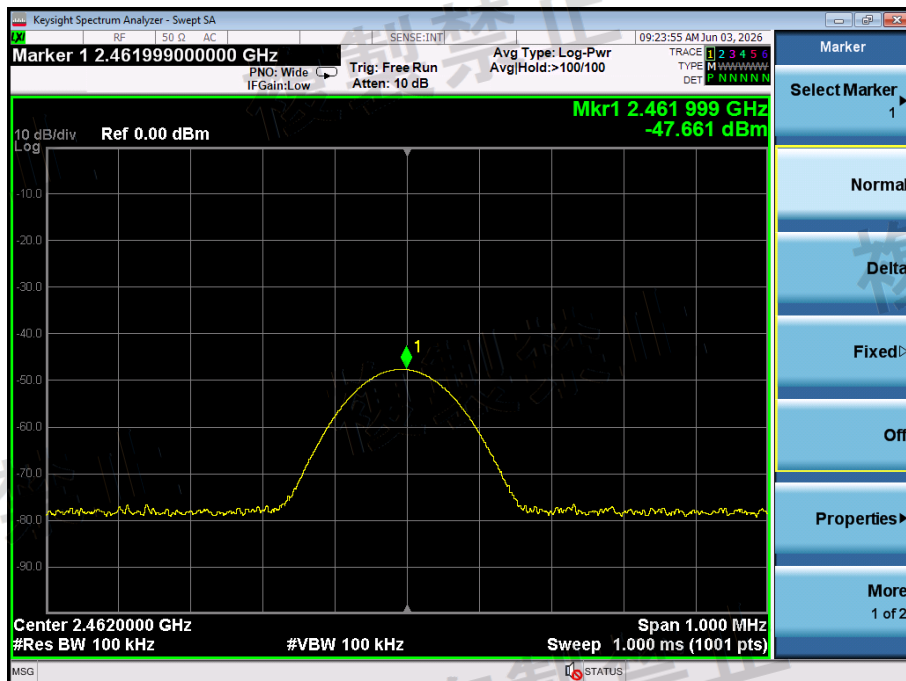
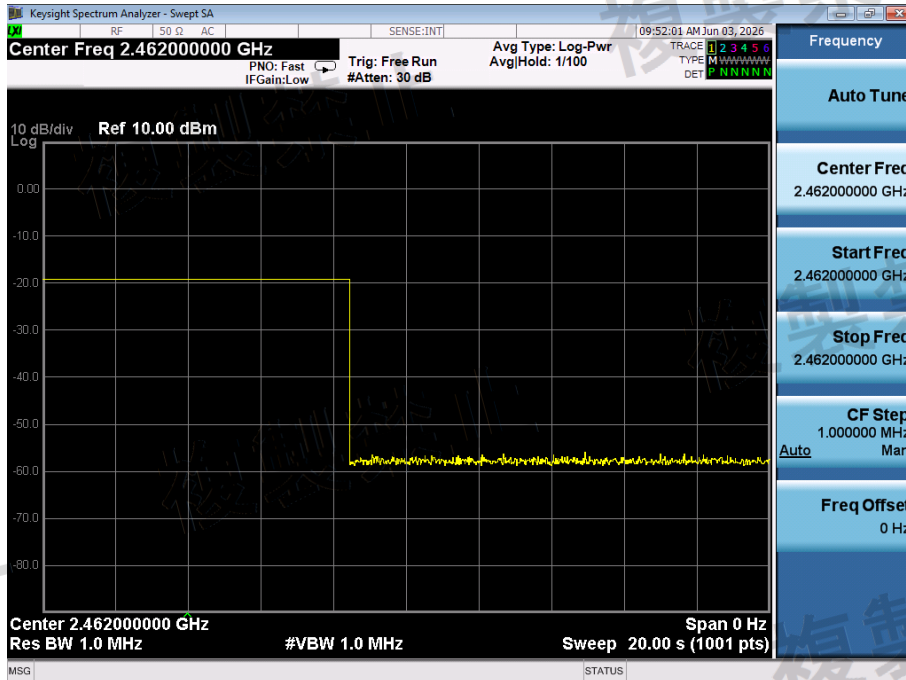
SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

SZEMC-TRF-01 Rev. A/2

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Test channel: 2462MHz



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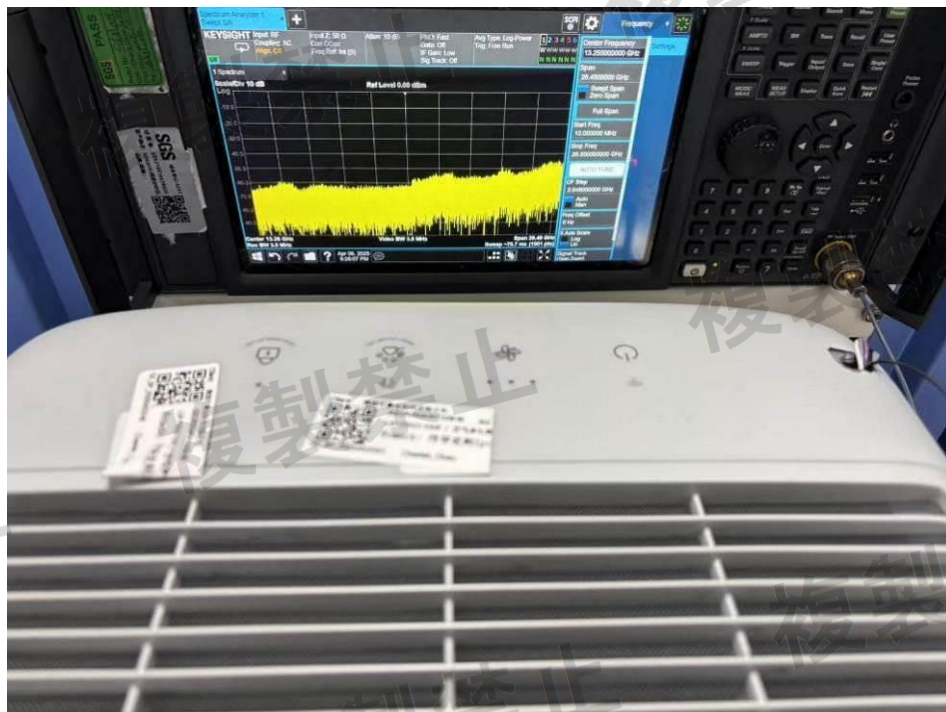
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Shenzhen Branch

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中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057

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7 Test Setup Photo



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8 EUT Constructional Details (EUT Photos)

Refer to Appendix_Photos of EUT Constructional Details for SZCR2603001108HS



9 Appendix

1. Frequency Error

1.1 Test Result

1.1.1 Ant1

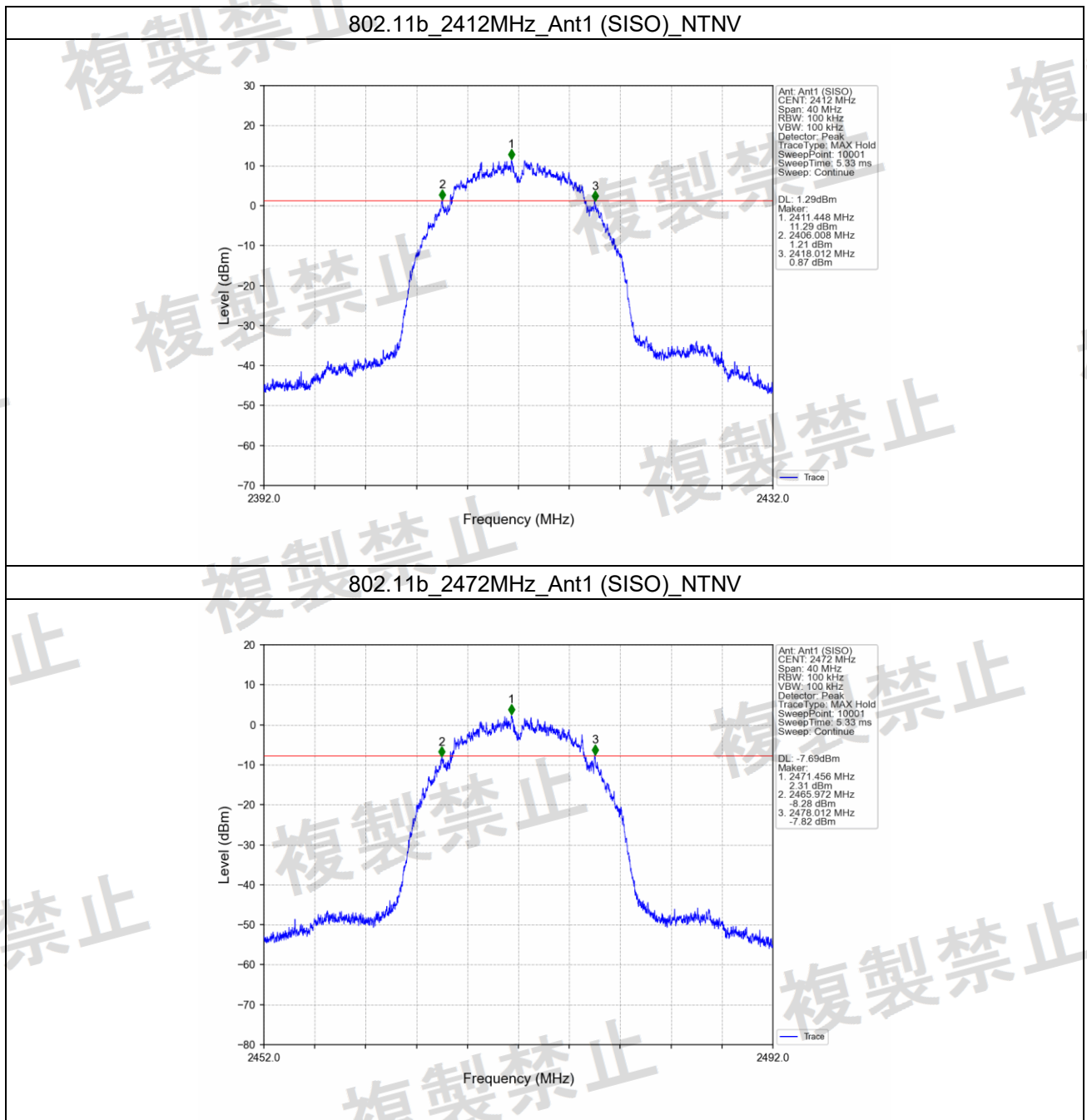
Ant1							
ENV	Mode	TX Type	Frequency (MHz)	Measured Frequency (MHz)	Tolerance (ppm)		Verdict
					Result	Limit	
NTNV	802.11b	SISO	2412	2412.010	4.146	-50 to 50	Pass
			2472	2471.992	-3.236	-50 to 50	Pass
	802.11g	SISO	2412	2412.000	0.000	-50 to 50	Pass
			2472	2471.996	-1.618	-50 to 50	Pass
	802.11n (HT20)	SISO	2412	2411.988	-4.975	-50 to 50	Pass
			2472	2471.994	-2.488	-50 to 50	Pass
	802.11n (HT40)	SISO	2422	2421.972	-11.561	-50 to 50	Pass
			2462	2461.988	-4.874	-50 to 50	Pass

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1.2 Test Graph

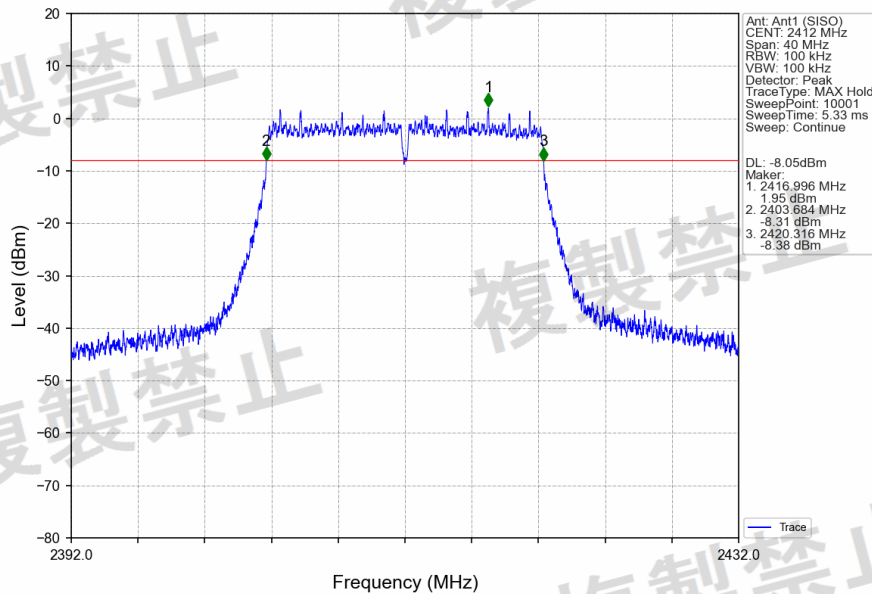
1.2.1 Ant1



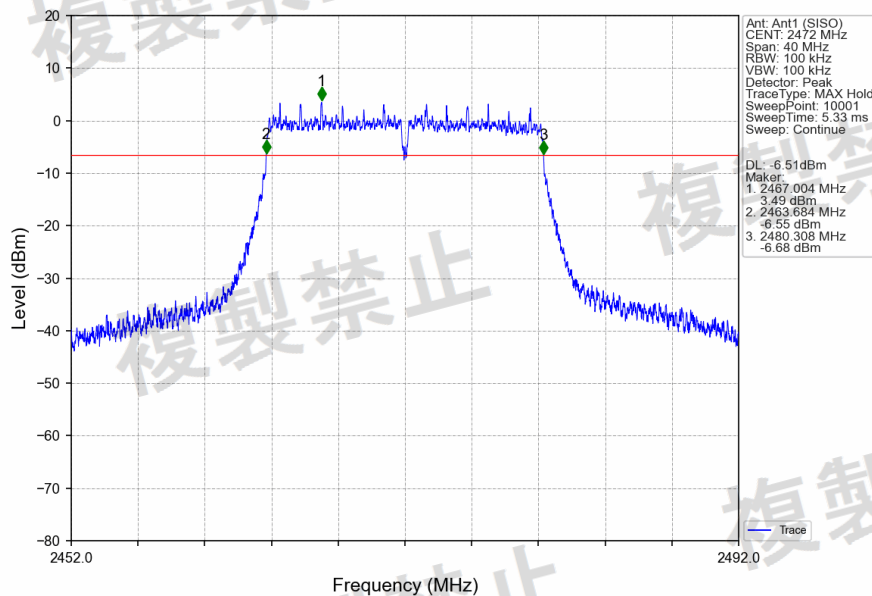
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802.11g_2412MHz_Ant1 (SISO)_NTNV



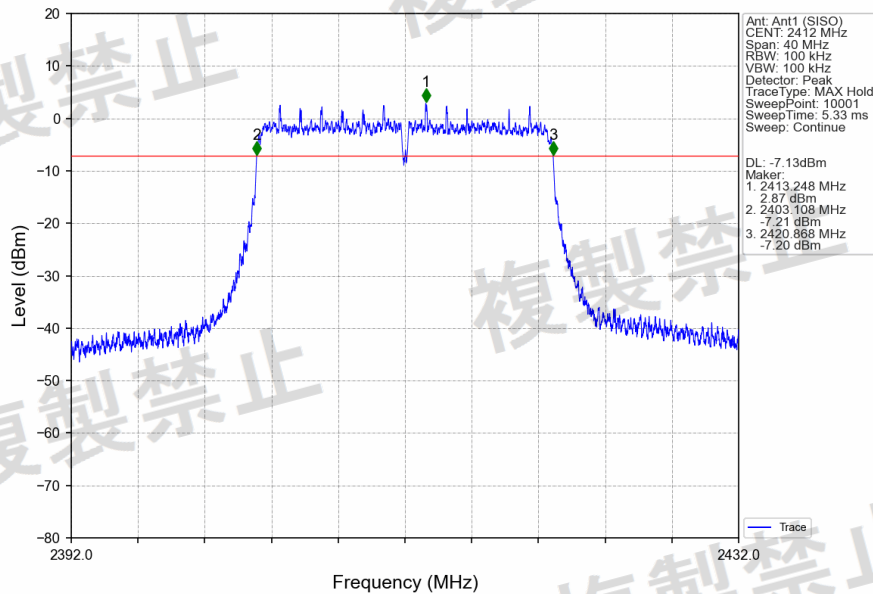
802.11g_2472MHz_Ant1 (SISO)_NTNV



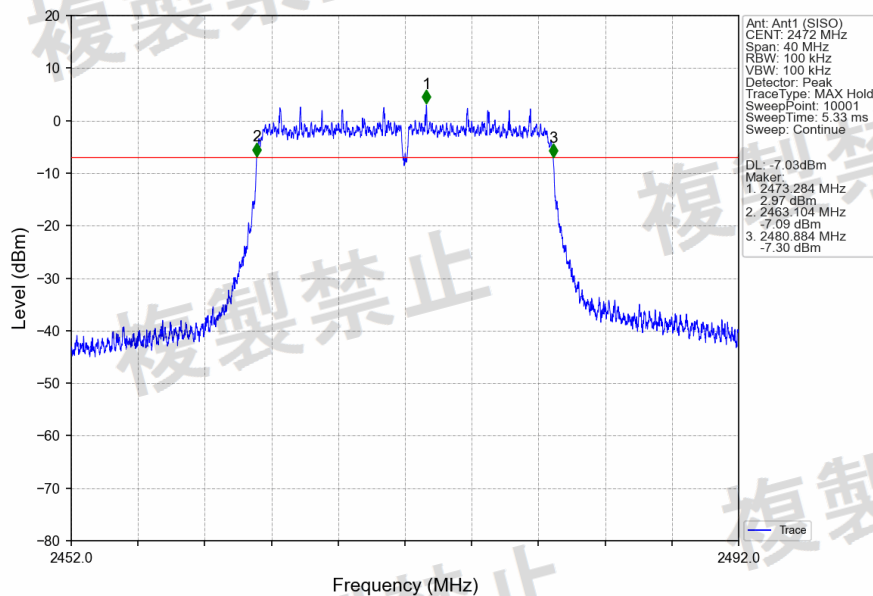
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802.11n(HT20)_2412MHz_Ant1 (SISO)_NTNV



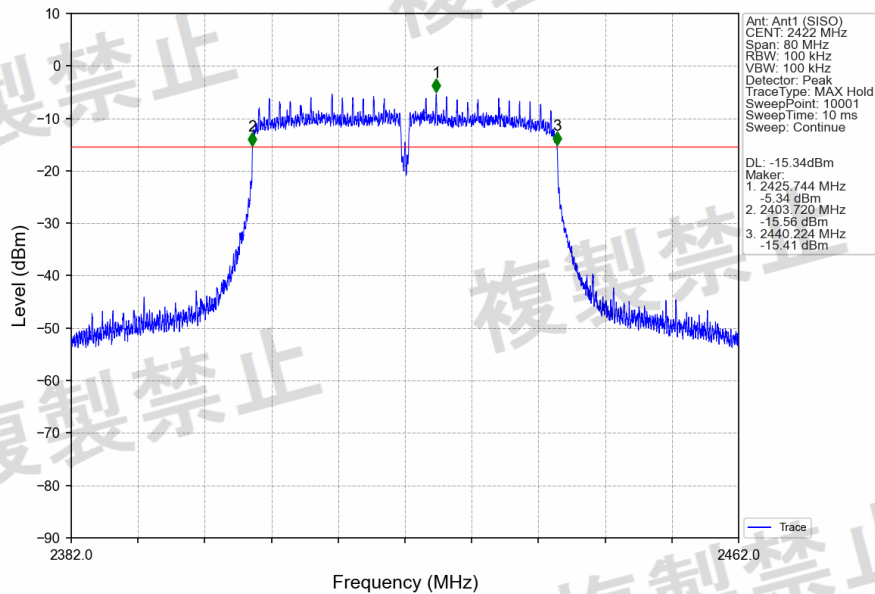
802.11n(HT20)_2472MHz_Ant1 (SISO)_NTNV



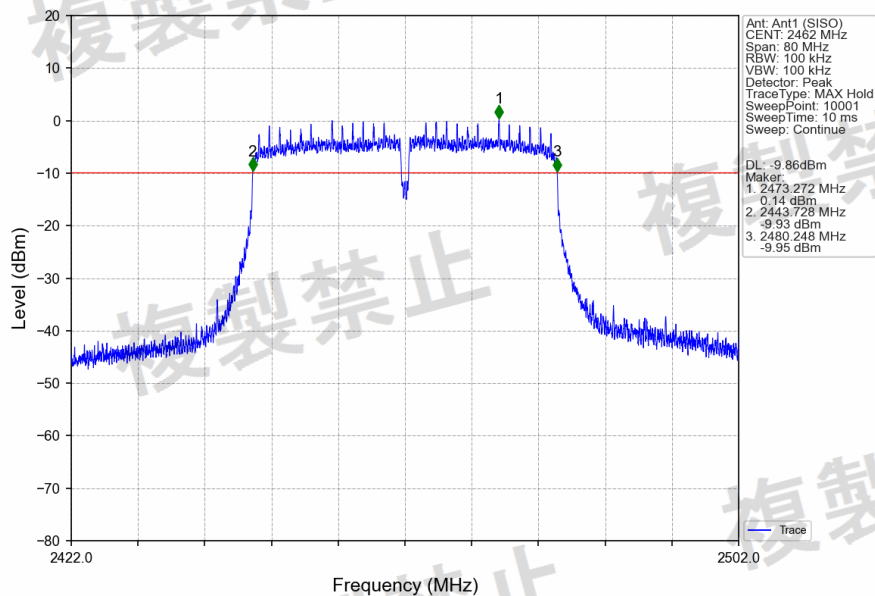
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802.11n(HT40)_2422MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_2462MHz_Ant1 (SISO)_NTNV



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2. Occupied Bandwidth

2.1 Test Result

2.1.1 OBW

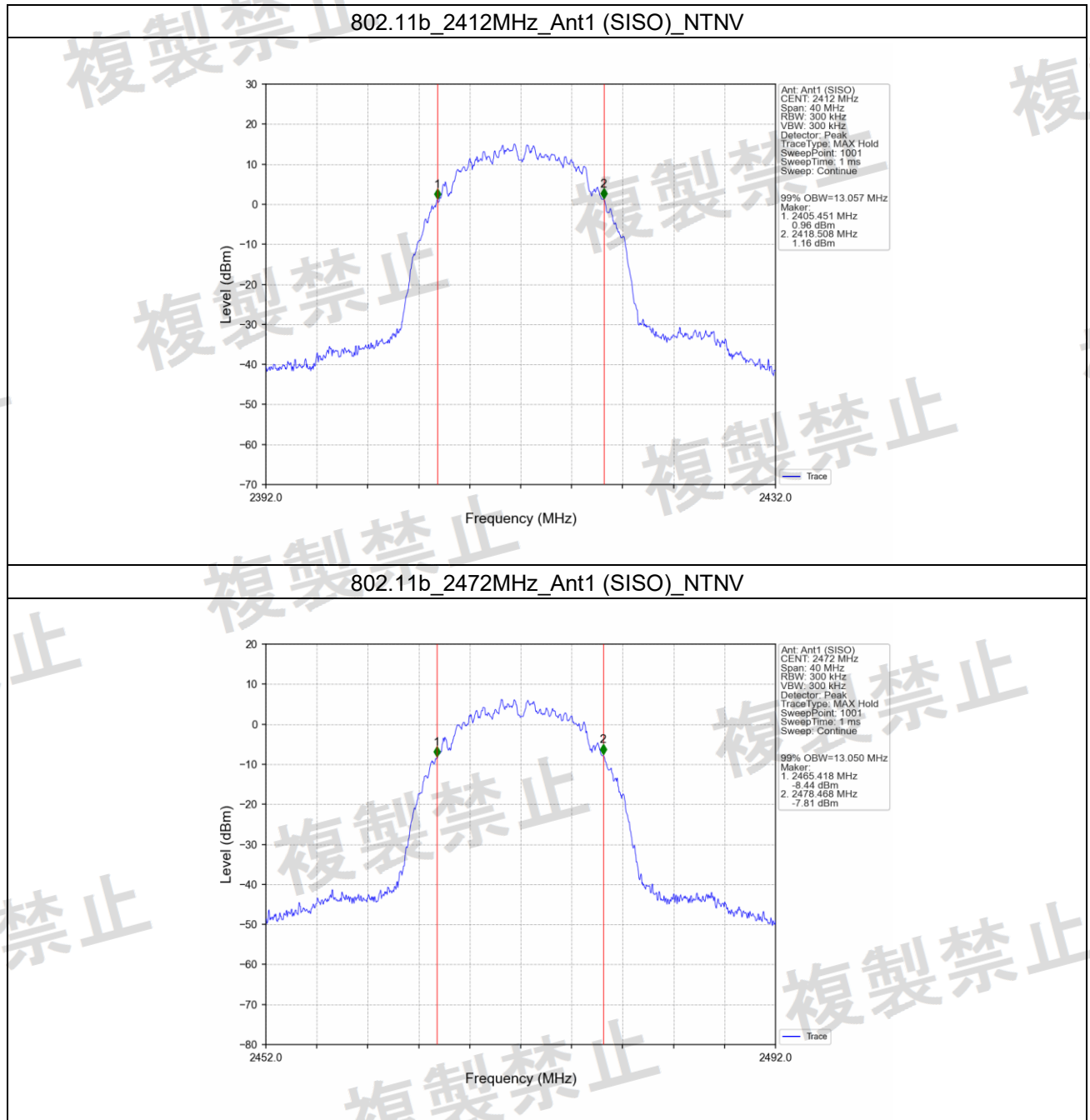
ENV	Mode	TX Type	Frequency (MHz)	99% Occupied Bandwidth (MHz)		Verdict
				ANT1	Limit	
NTNV	802.11b	SISO	2412	13.057	<=26	Pass
			2472	13.050	<=26	Pass
	802.11g	SISO	2412	16.722	<=26	Pass
			2472	16.713	<=26	Pass
	802.11n (HT20)	SISO	2412	17.545	<=26	Pass
			2472	17.547	<=26	Pass
	802.11n (HT40)	SISO	2422	35.972	<=40	Pass
			2462	35.976	<=40	Pass

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2.2 Test Graph

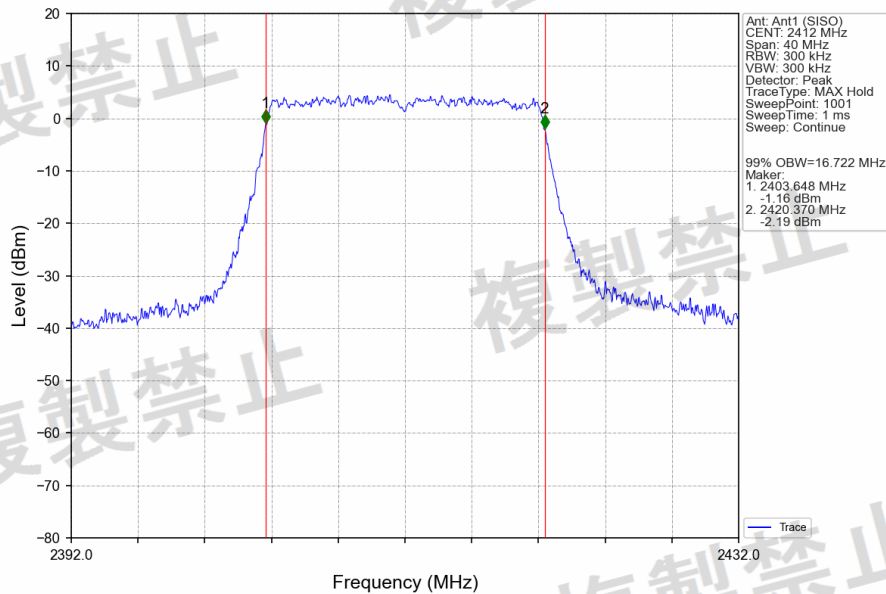
2.2.1 OBW



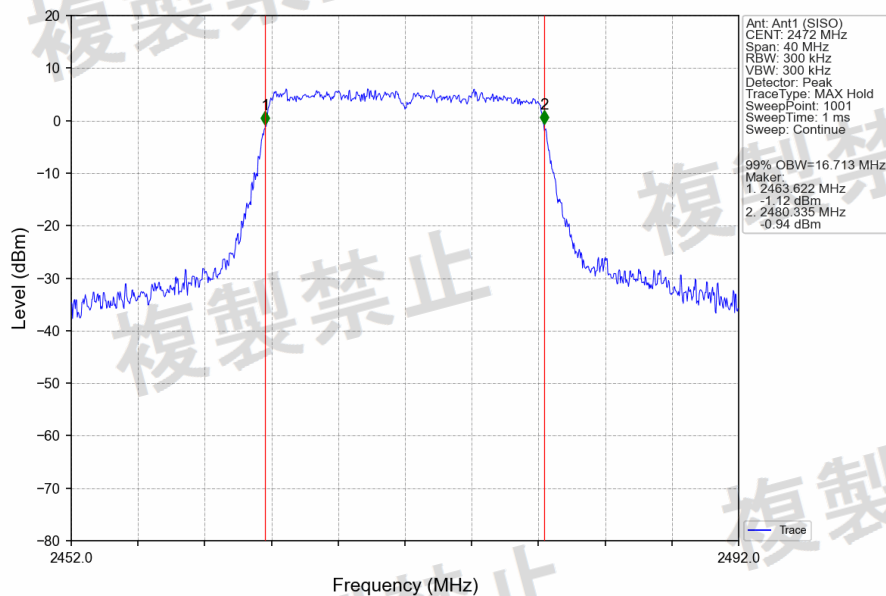
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802.11g_2412MHz_Ant1 (SISO)_NTNV



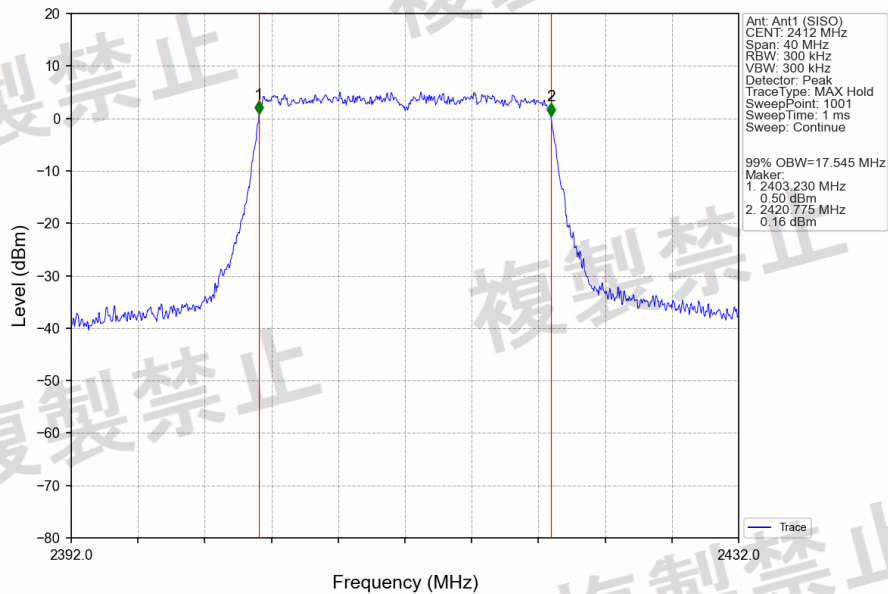
802.11g_2472MHz_Ant1 (SISO)_NTNV



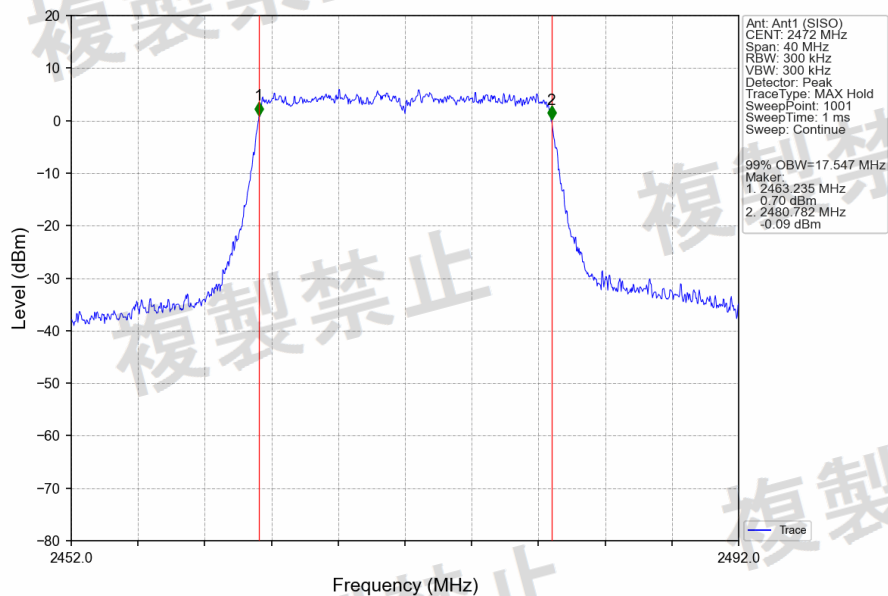
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802.11n(HT20)_2412MHz_Ant1 (SISO)_NTNV



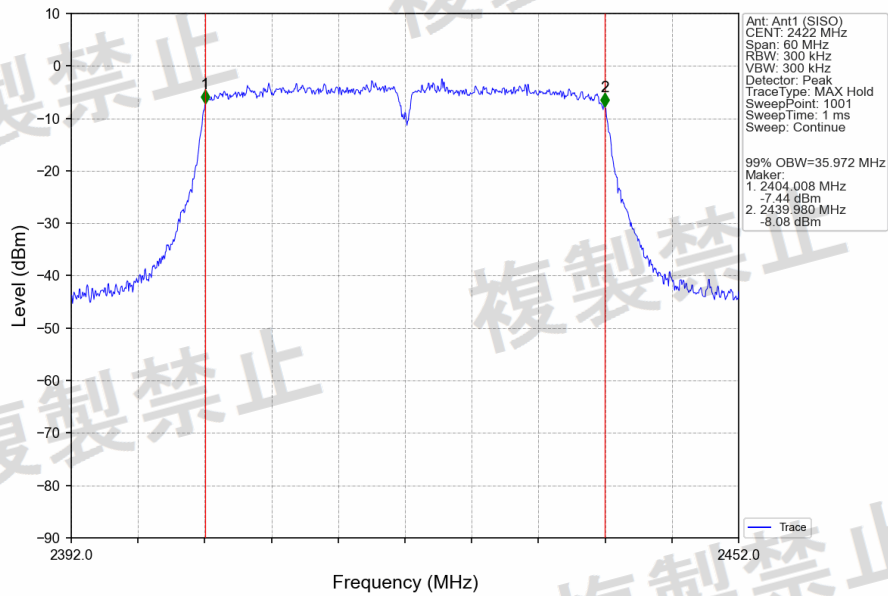
802.11n(HT20)_2472MHz_Ant1 (SISO)_NTNV



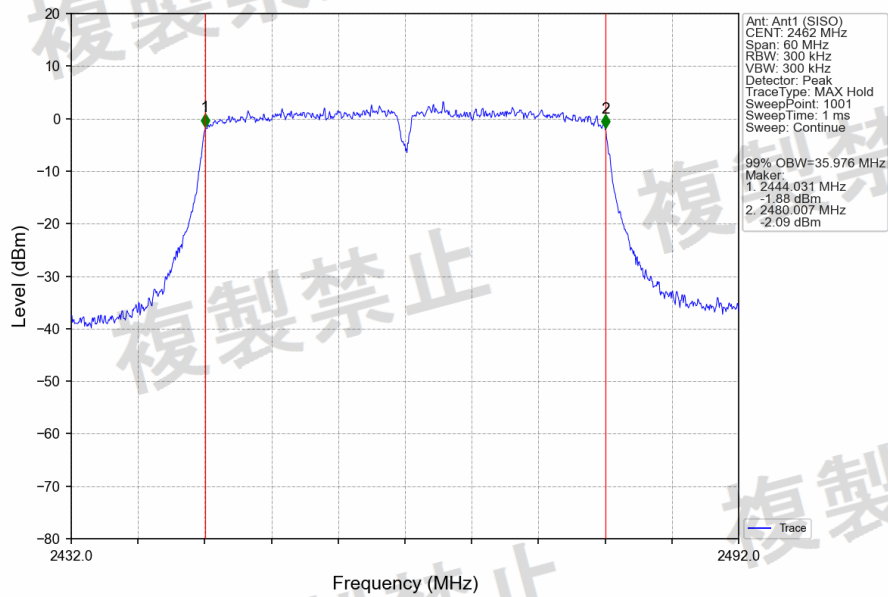
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802.11n(HT40)_2422MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_2462MHz_Ant1 (SISO)_NTNV



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3. Antenna Power

3.1 Test Result

3.1.1 Power

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	3.272	<=10.00	3.200	2.250	<=20	Pass
			2472	1	3.241	<=10.00	3.200	1.281	<=20	Pass
	802.11g	SISO	2412	1	2.148	<=10.00	2.100	2.286	<=20	Pass
			2472	1	2.155	<=10.00	2.100	2.619	<=20	Pass
	802.11n (HT20)	SISO	2412	1	0.709	<=10.00	0.710	-0.14	<=20	Pass
			2472	1	1.822	<=10.00	1.800	1.22	<=20	Pass
	802.11n (HT40)	SISO	2422	1	0.244	<=5.00	0.240	1.67	<=20	Pass
			2462	1	0.898	<=5.00	0.900	-0.22	<=20	Pass

3.1.2 EIRP

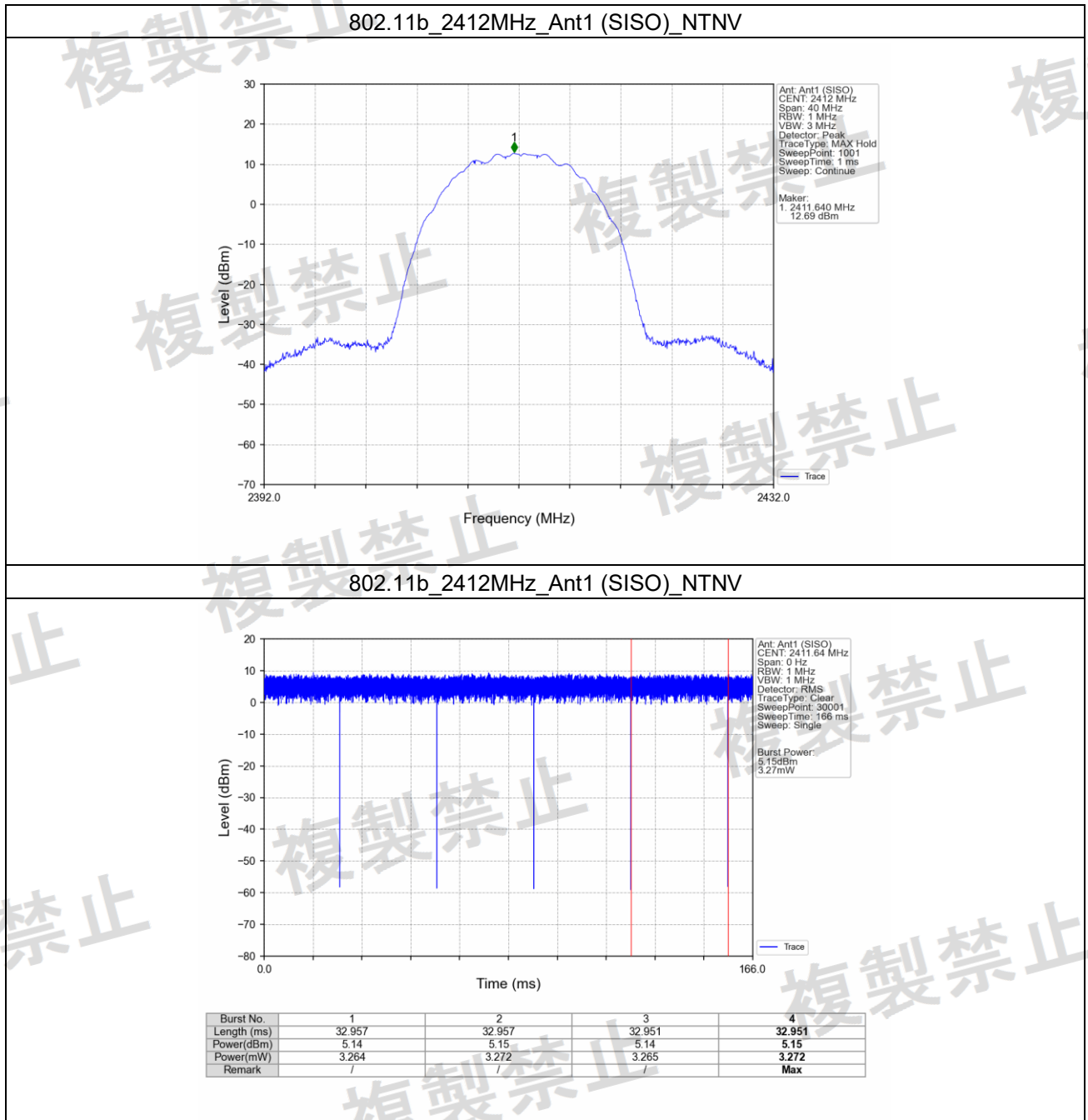
ENV	Mode	TX Type	Frequency (MHz)	ANT	Gain (dBi)	EIRP (mW/MHz)		Verdict
						Result	Limit	
NTNV	802.11b	SISO	2412	1	0.90	4.025	<=16.368	Pass
			2472	1	0.90	3.987	<=16.368	Pass
	802.11g	SISO	2412	1	0.90	2.643	<=16.368	Pass
			2472	1	0.90	2.651	<=16.368	Pass
	802.11n (HT20)	SISO	2412	1	0.90	0.872	<=16.368	Pass
			2472	1	0.90	2.242	<=16.368	Pass
	802.11n (HT40)	SISO	2422	1	0.90	0.300	<=8.184	Pass
			2462	1	0.90	1.105	<=8.184	Pass

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3.2 Test Graph

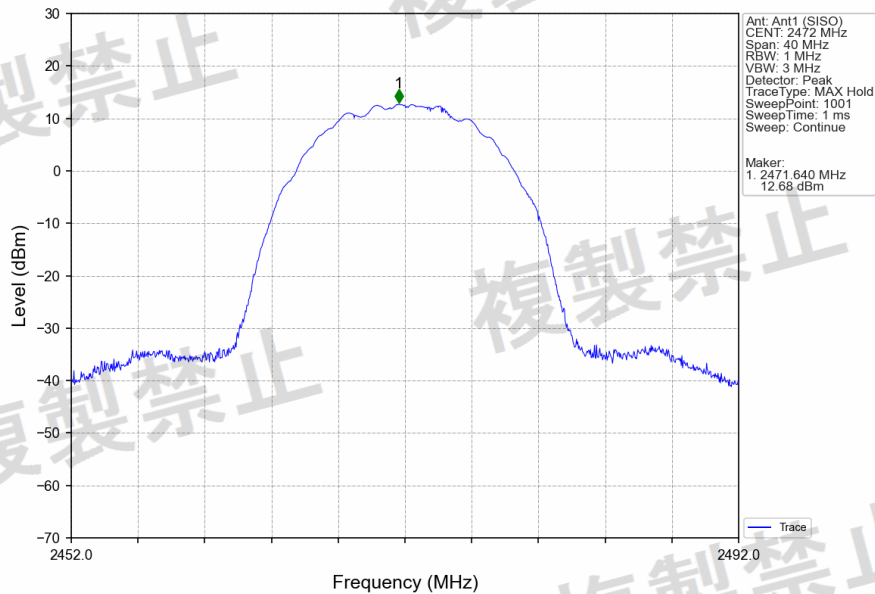
3.2.1 Power



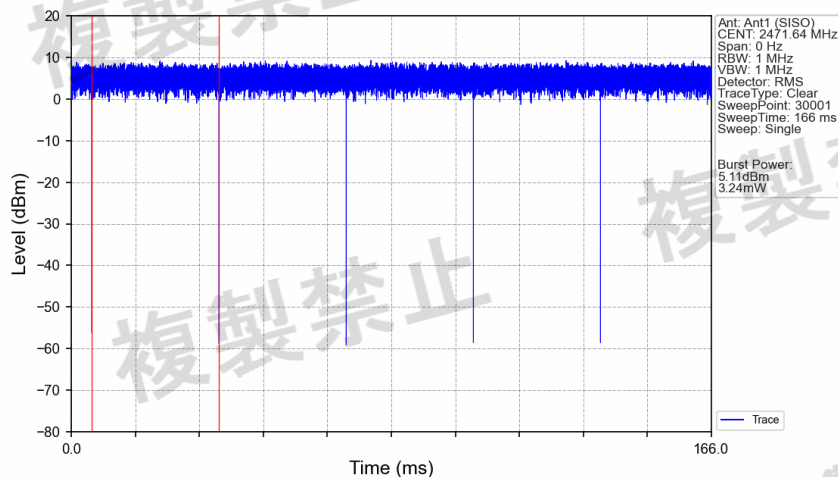
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802.11b_2472MHz_Ant1 (SISO)_NTNV



802.11b_2472MHz_Ant1 (SISO)_NTNV

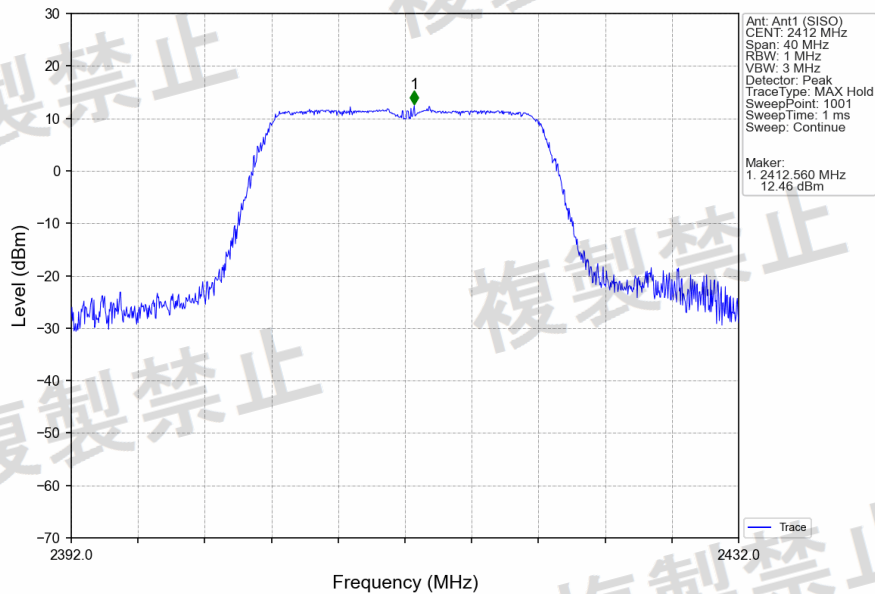


Burst No.	1	2	3	4
Length (ms)	32.957	32.951	32.951	32.951
Power(dBm)	5.11	5.10	5.11	5.10
Power(mW)	3.241	3.238	3.241	3.237
Remark	Max	/	/	/

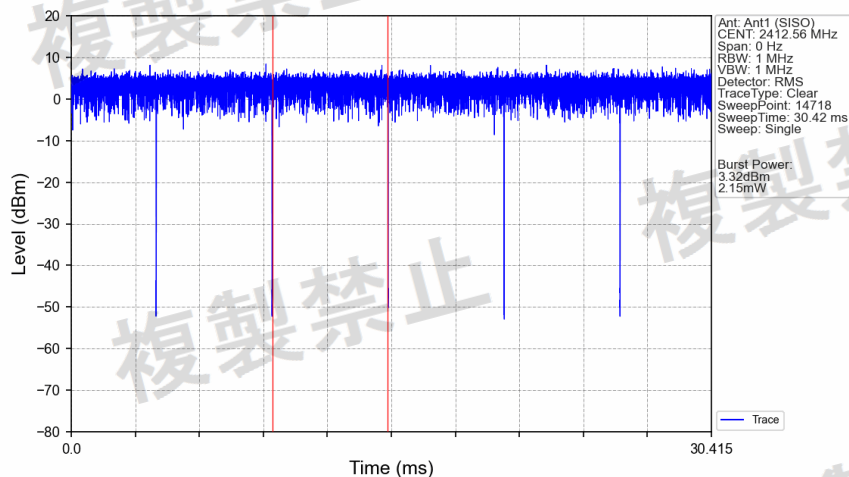
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802.11g_2412MHz_Ant1 (SISO)_NTNV



802.11g_2412MHz_Ant1 (SISO)_NTNV

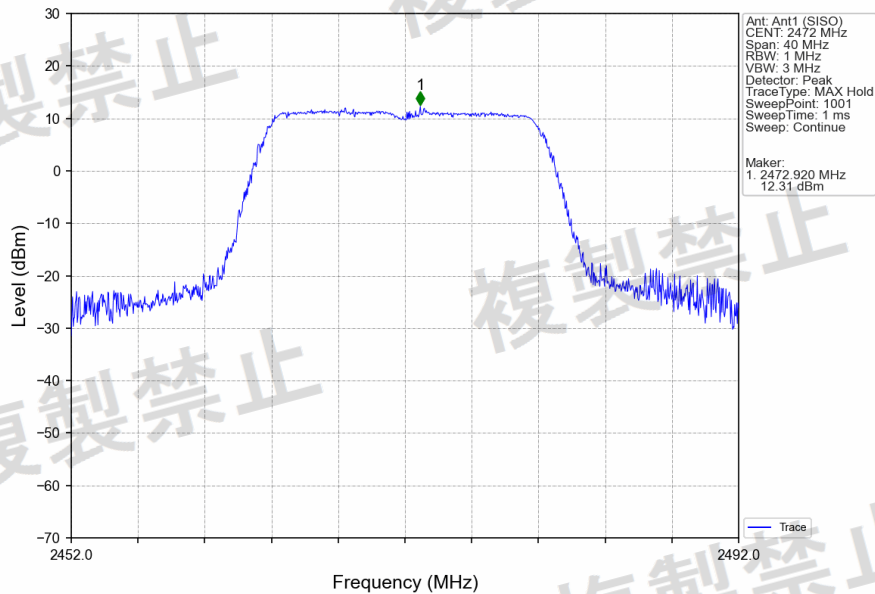


Burst No.	1	2	3	4
Length (ms)	5.485	5.485	5.485	5.485
Power(dBm)	3.32	3.32	3.32	3.32
Power(mW)	2.146	2.148	2.147	2.148
Remark	/	Max	/	/

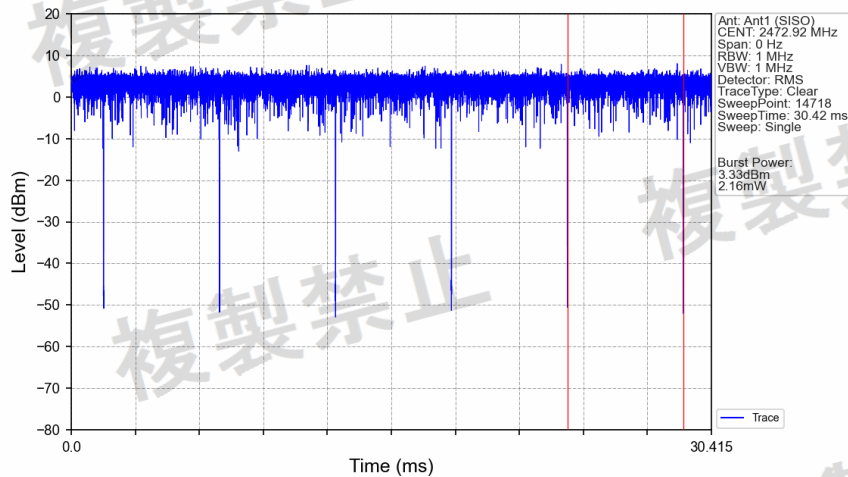
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802.11g_2472MHz_Ant1 (SISO)_NTNV



802.11g_2472MHz_Ant1 (SISO)_NTNV

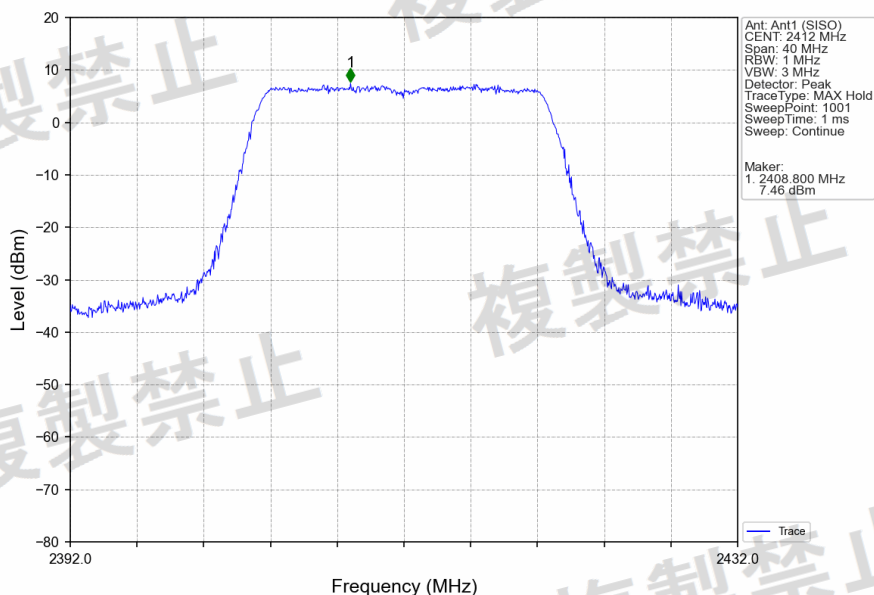


Burst No.	1	2	3	4	5
Length (ms)	5.485	5.485	5.485	5.485	5.485
Power(dBm)	3.33	3.33	3.33	3.33	3.33
Power(mW)	2.153	2.153	2.154	2.155	2.155
Remark	/	/	/	/	Max

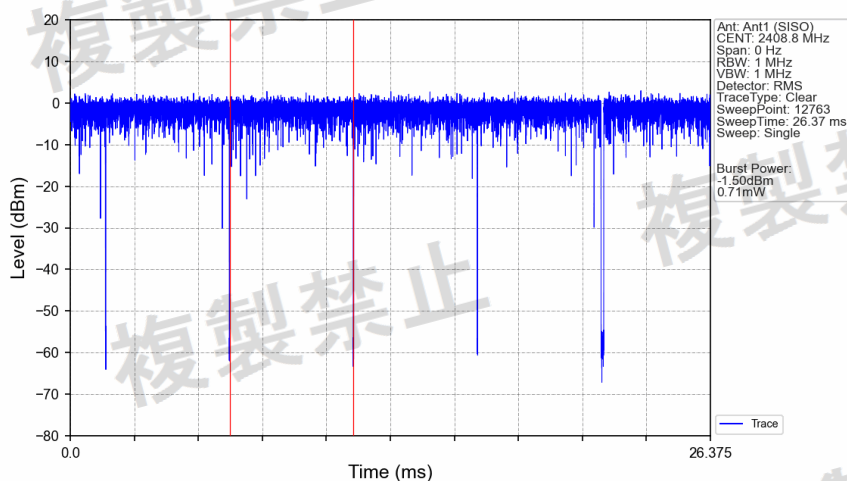
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802.11n(HT20)_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_2412MHz_Ant1 (SISO)_NTNV

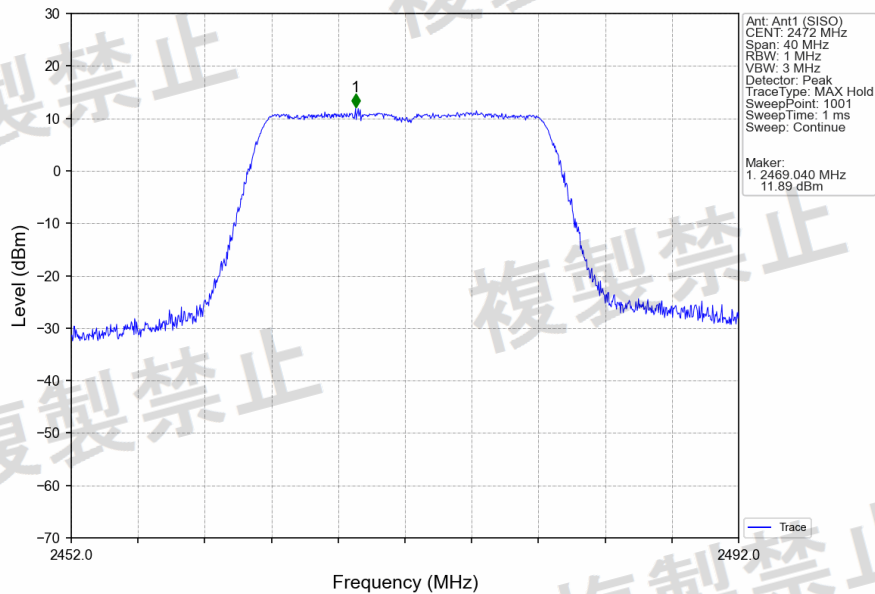


Burst No.	1	2	3	4
Length (ms)	5.080	5.080	5.082	5.080
Power(dBm)	-1.50	-1.50	-1.50	-1.50
Power(mW)	0.708	0.709	0.707	0.708
Remark	/	Max	/	/

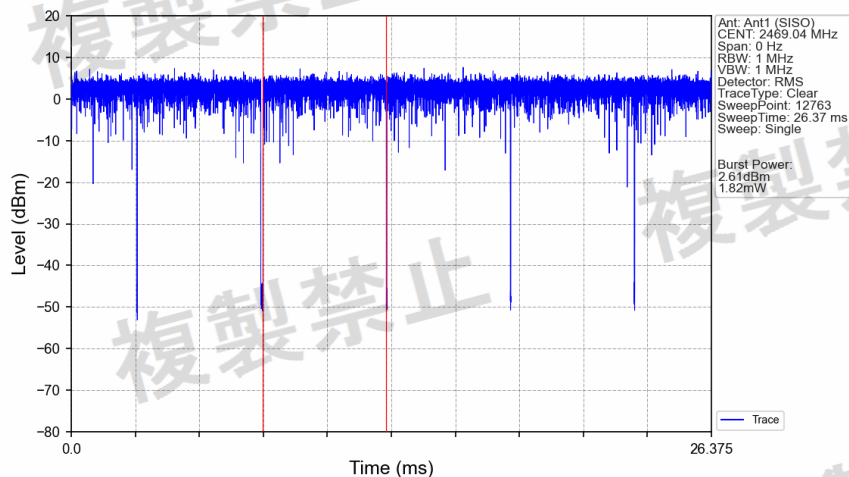
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802.11n(HT20)_2472MHz_Ant1 (SISO)_NTNV

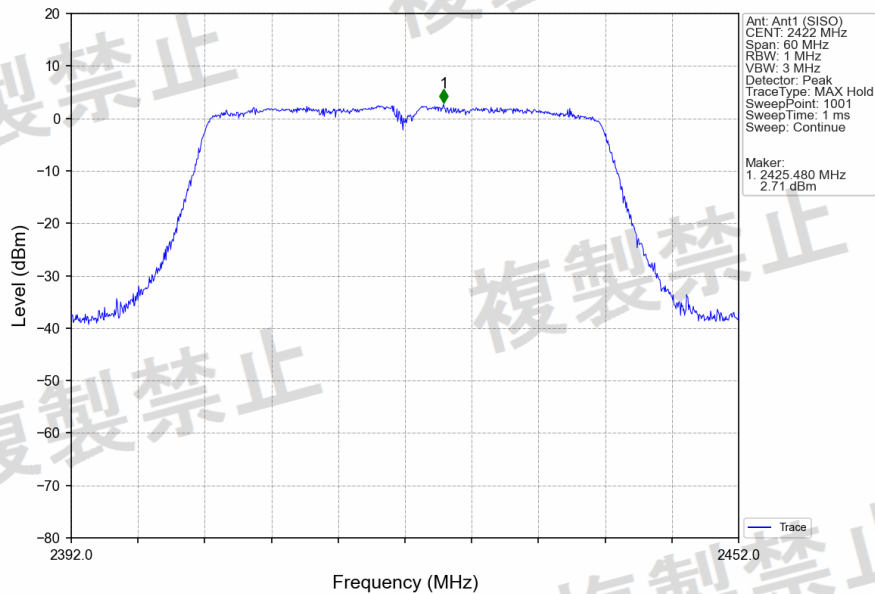


Burst No.	1	2	3	4
Length (ms)	5.082	5.080	5.082	5.080
Power(dBm)	2.60	2.61	2.60	2.60
Power(mW)	1.818	1.822	1.819	1.819
Remark	/	Max	/	/

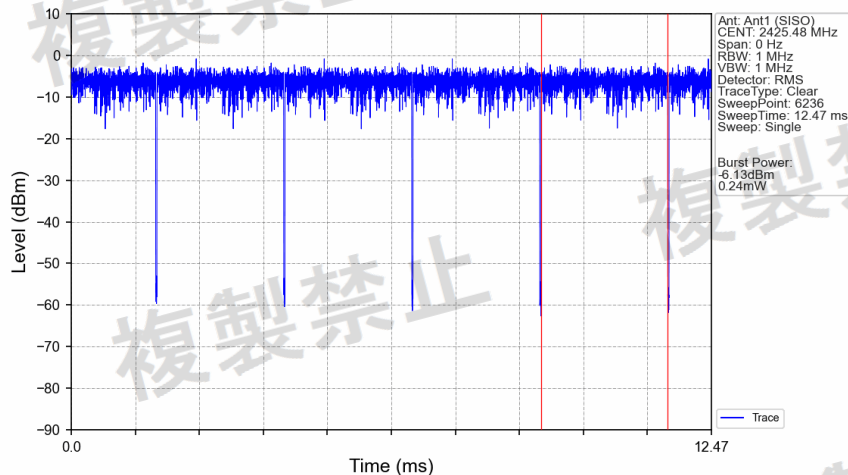
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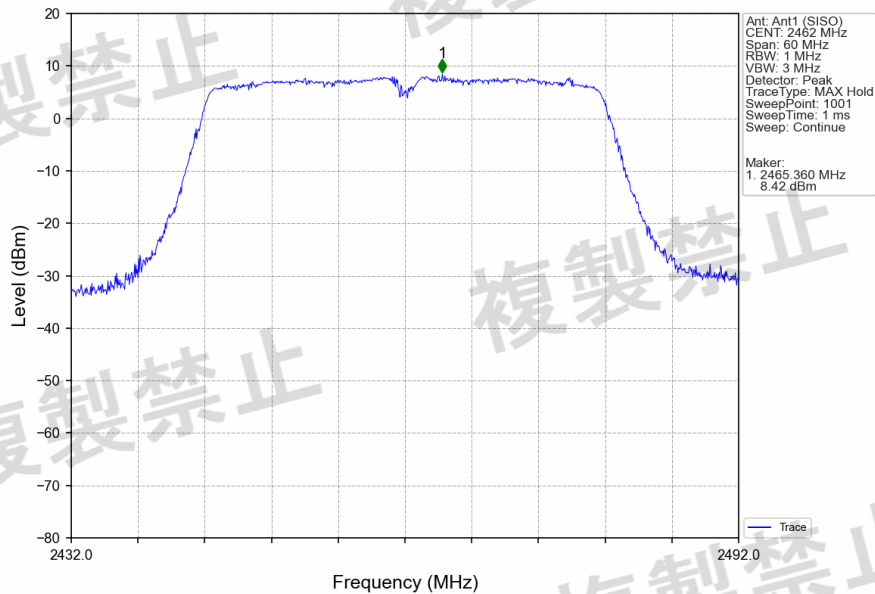


Burst No.	1	2	3	4
Length (ms)	2.468	2.468	2.468	2.468
Power(dBm)	-6.13	-6.13	-6.13	-6.13
Power(mW)	0.244	0.244	0.244	0.244
Remark	/	/	/	Max

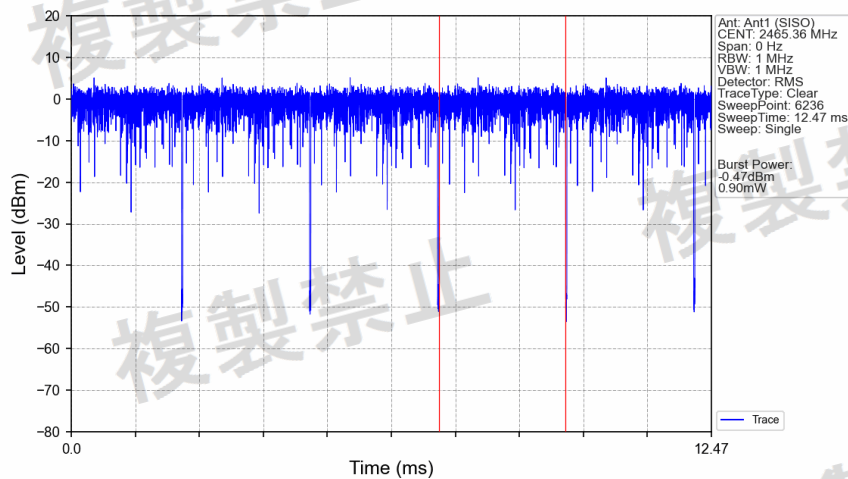
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802.11n(HT40)_2462MHz_Ant1 (SISO)_NTNV



Burst No.	1	2	3	4
Length (ms)	2.468	2.468	2.468	2.468
Power(dBm)	-0.47	-0.47	-0.47	-0.47
Power(mW)	0.898	0.897	0.898	0.898
Remark	/	/	Max	/

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4. Spurious Emission Intensity

4.1 Test Result

4.1.1 TxSe_NTNV

NTNV												
Mode	TX Type	Freq. (MHz)	ANT	Freq. Range		Marker					Limit (uW /MHz)	Verdict
				Start (MHz)	Stop (MHz)	Freq. (MHz)	PK Power (dBm /MHz)	PK Power (uW /MHz)	AV Power (dBm /MHz)	AV Power (uW /MHz)		
802.11b	SISO	2412	1	30	2387	2386.5	-40.60	0.087	/	/	2.5	Pass
				2387	2400	2396.633	-33.56	0.441	/	/	25	Pass
				2483.5	2496.5	2496.149	-42.55	0.056	/	/	25	Pass
				2496.5	12500	5409	-43.00	0.050	/	/	2.5	Pass
	SISO	2472	1	30	2387	2372	-40.50	0.089	/	/	2.5	Pass
				2387	2400	2392.083	-39.79	0.105	/	/	25	Pass
				2483.5	2496.5	2485.957	-33.81	0.416	/	/	25	Pass
				2496.5	12500	2513	-42.16	0.061	/	/	2.5	Pass
802.11g	SISO	2412	1	30	2387	2348	-32.80	0.525	/	/	2.5	Pass
				2387	2400	2399.883	-21.47	7.129	/	/	25	Pass
				2483.5	2496.5	2484.085	-35.17	0.304	/	/	25	Pass
				2496.5	12500	6282	-33.53	0.444	/	/	2.5	Pass
	SISO	2472	1	30	2387	2329	-33.36	0.461	/	/	2.5	Pass
				2387	2400	2393.188	-35.43	0.286	/	/	25	Pass
				2483.5	2496.5	2483.708	-17.46	17.947	-33.63	0.434	25	Pass
				2496.5	12500	5721	-33.91	0.406	/	/	2.5	Pass
802.11n (HT20)	SISO	2412	1	30	2387	2385.5	-41.21	0.076	/	/	2.5	Pass
				2387	2400	2399.831	-29.32	1.169	/	/	25	Pass
				2483.5	2496.5	2487.569	-43.04	0.050	/	/	25	Pass
				2496.5	12500	12215	-43.52	0.044	/	/	2.5	Pass
	SISO	2472	1	30	2387	2310	-32.46	0.568	/	/	2.5	Pass
				2387	2400	2396.919	-36.06	0.248	/	/	25	Pass
				2483.5	2496.5	2483.513	-20.87	8.185	/	/	25	Pass
				2496.5	12500	5928	-33.78	0.419	/	/	2.5	Pass
802.11n (HT40)	SISO	2422	1	30	2387	2386	-38.64	0.137	/	/	2.5	Pass
				2387	2400	2399.948	-27.71	1.694	/	/	25	Pass
				2483.5	2496.5	2495.369	-43.62	0.043	/	/	25	Pass

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SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

SZEMC-TRF-01 Rev. A/2

Report No.: SZCR260300110802

Page: 52 of 70

				2496.5	12500	5979.5	-43.46	0.045	/	/	2.5	Pass
				30	2387	2378.5	-33.20	0.479	/	/	2.5	Pass
				2387	2400	2399.688	-34.87	0.326	/	/	25	Pass
				2483.5	2496.5	2483.63	-19.71	10.691	/	/	25	Pass
				2496.5	12500	2502.5	-32.86	0.518	/	/	2.5	Pass



SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch Inspection & Testing Laboratory

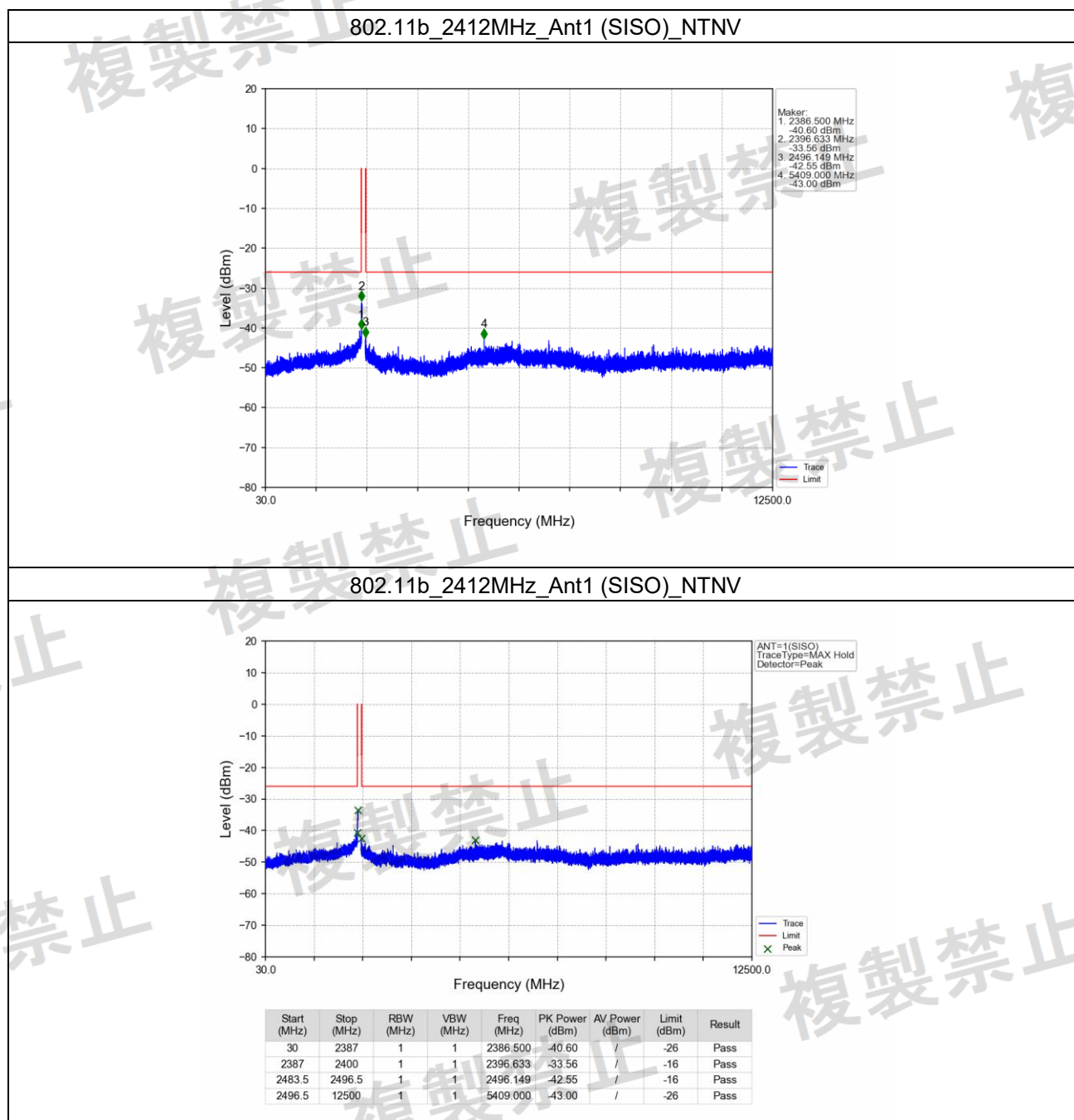
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中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

4.2 Test Graph

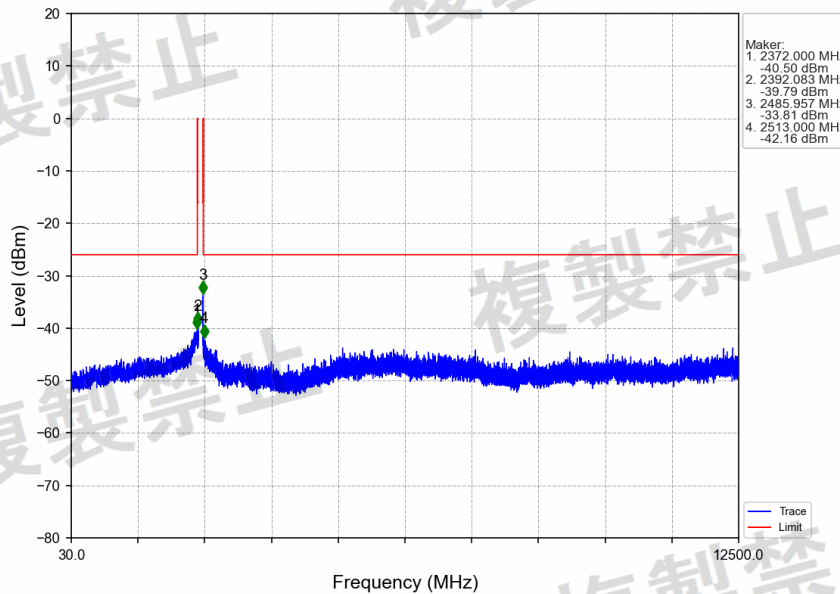
4.2.1 TxSe_NTNV



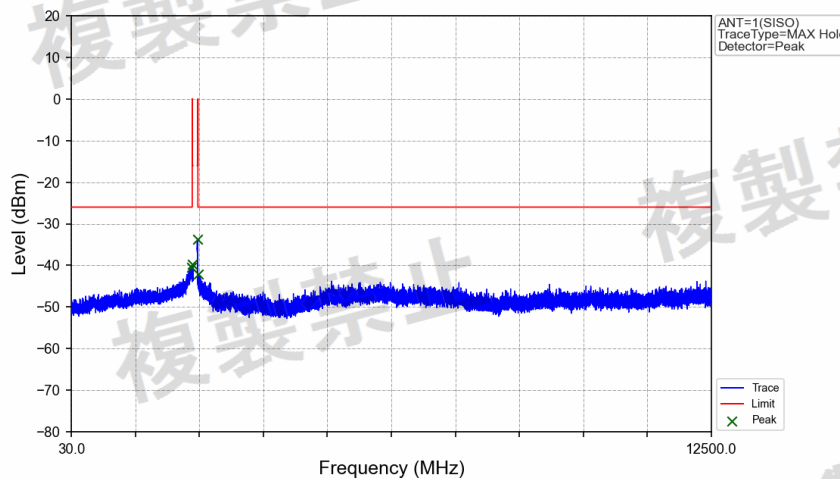
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802.11b_2472MHz_Ant1 (SISO)_NTNV



802.11b_2472MHz_Ant1 (SISO)_NTNV

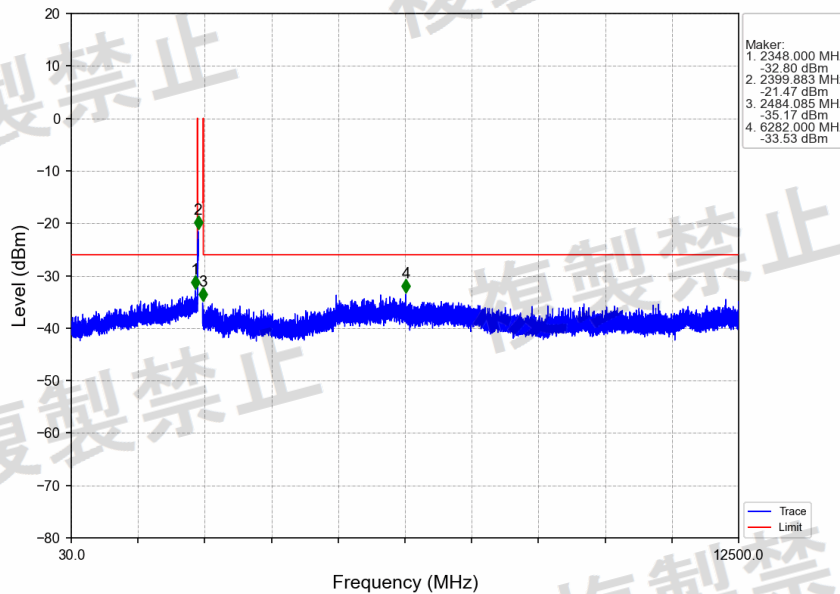


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	2387	1	1	2372.000	-40.50	/	-26	Pass
2387	2400	1	1	2392.083	-39.79	/	-16	Pass
2483.5	2496.5	1	1	2485.957	-33.81	/	-16	Pass
2496.5	12500	1	1	2513.000	-42.16	/	-26	Pass

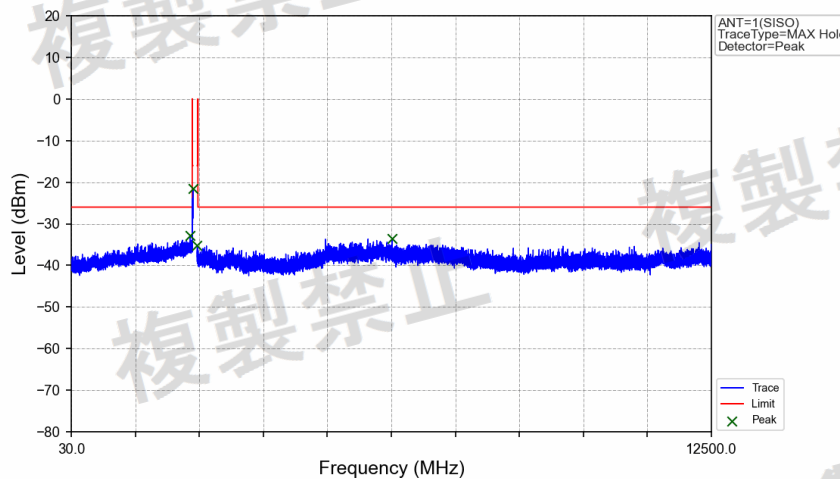
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802.11g_2412MHz_Ant1 (SISO)_NTNV



802.11g_2412MHz_Ant1 (SISO)_NTNV

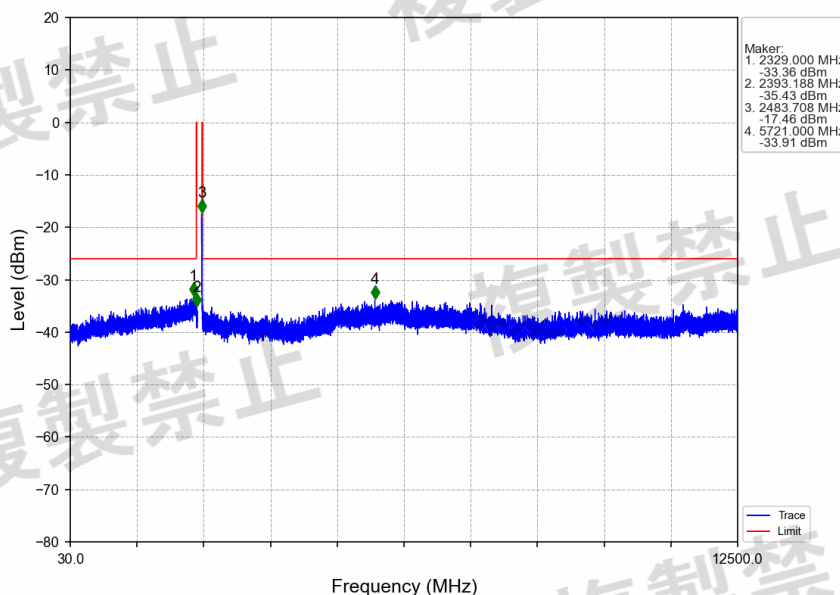


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	2387	1	1	2348.000	-32.80	/	-26	Pass
2387	2400	1	1	2399.883	-21.47	/	-16	Pass
2483.5	2496.5	1	1	2484.085	-35.17	/	-16	Pass
2496.5	12500	1	1	6282.000	-33.53	/	-26	Pass

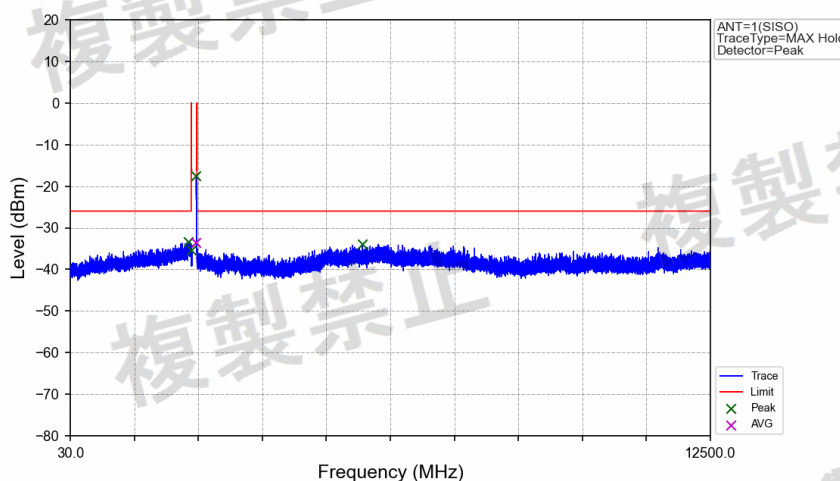
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802.11g_2472MHz_Ant1 (SISO)_NTNV



802.11g_2472MHz_Ant1 (SISO)_NTNV

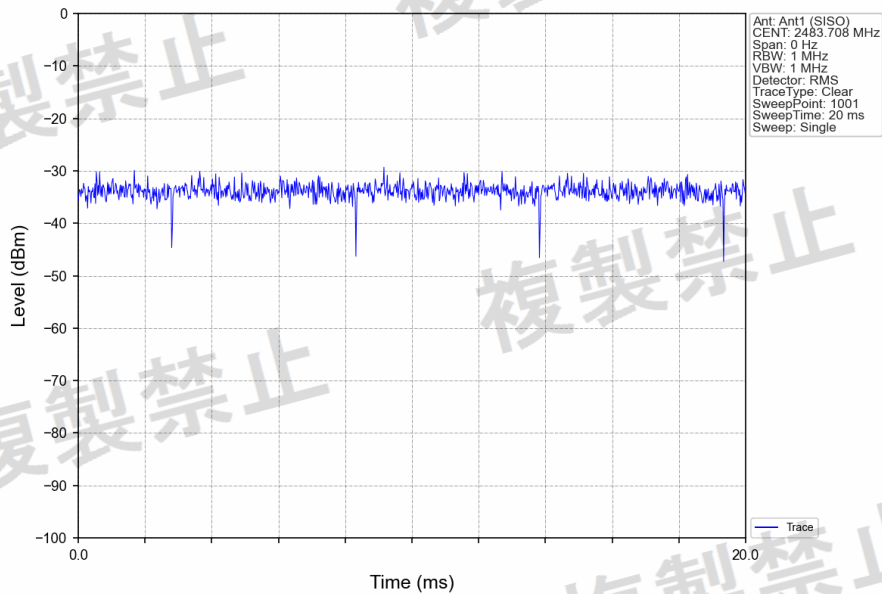


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	2387	1	1	2329.000	-33.36	/	-26	Pass
2387	2400	1	1	2393.188	-35.43	/	-16	Pass
2483.5	2496.5	1	1	2483.708	-17.46	-33.63	-16	Pass
2496.5	12500	1	1	5721.000	-33.91	/	-26	Pass

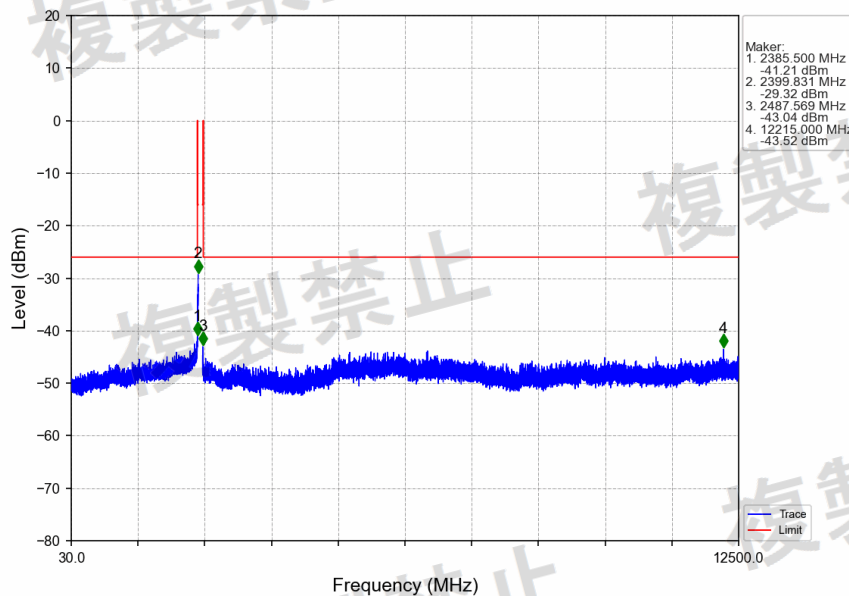
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802.11g_2472MHz_Ant1 (SISO)_NTNV



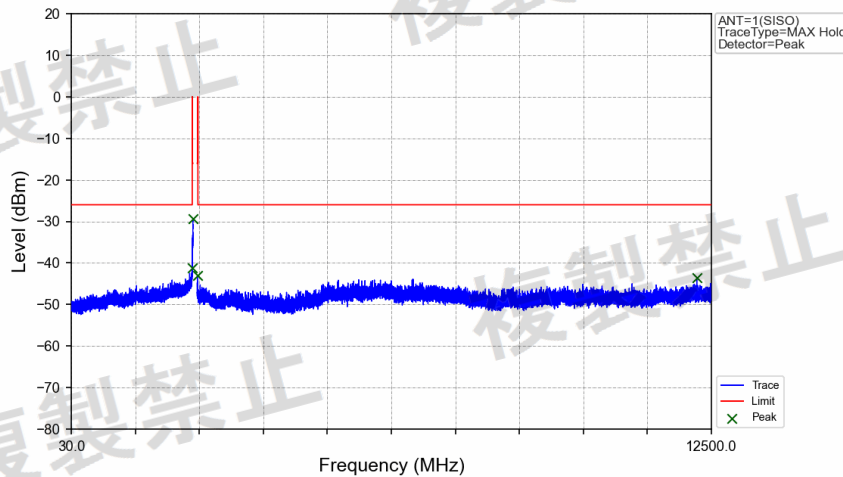
802.11n(HT20)_2412MHz_Ant1 (SISO)_NTNV



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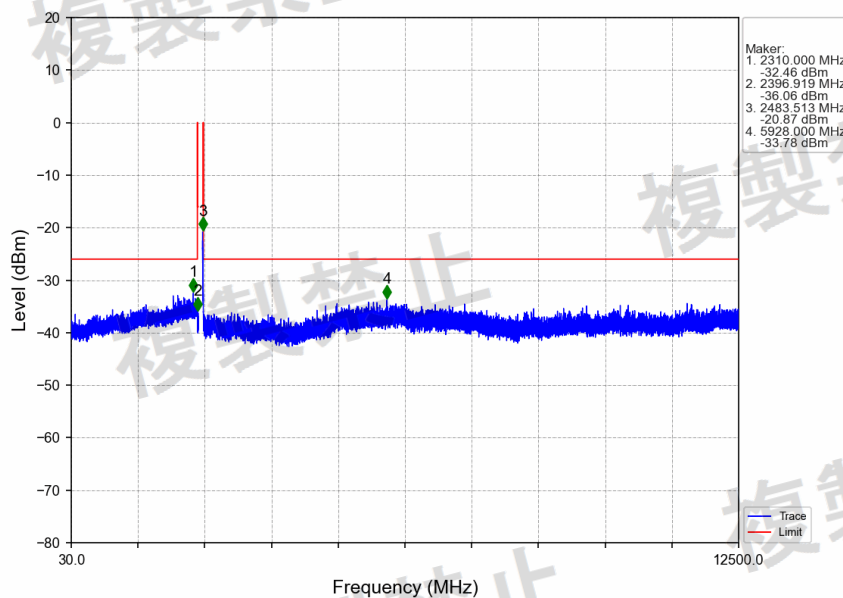
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802.11n(HT20)_2412MHz_Ant1 (SISO)_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	2387	1	1	2385.500	-41.21	/	-26	Pass
2387	2400	1	1	2399.831	-29.32	/	-16	Pass
2483.5	2496.5	1	1	2487.569	-43.04	/	-16	Pass
2496.5	12500	1	1	12215.000	-43.52	/	-26	Pass

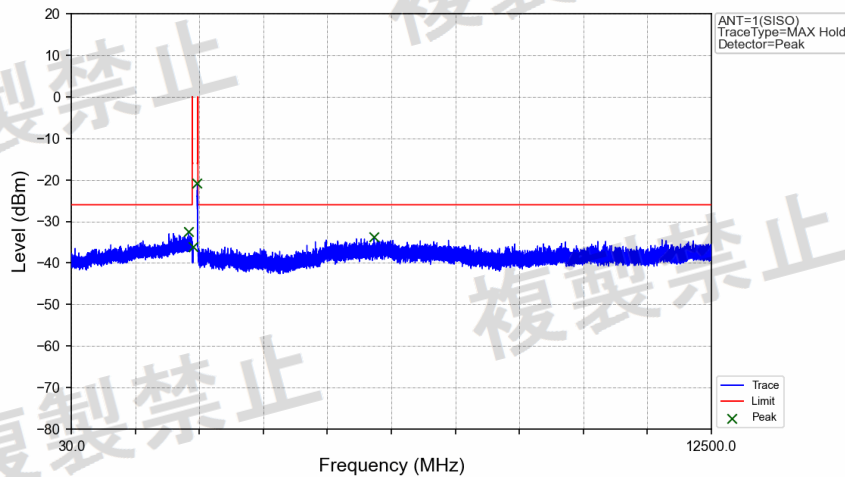
802.11n(HT20)_2472MHz_Ant1 (SISO)_NTNV



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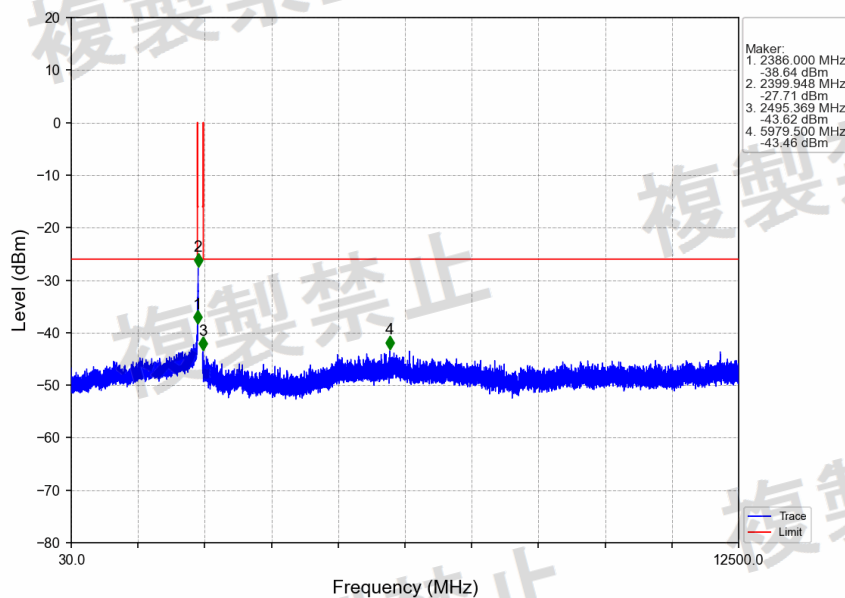
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802.11n(HT20)_2472MHz_Ant1 (SISO)_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	2387	1	1	2310.000	-32.46	/	-26	Pass
2387	2400	1	1	2396.919	-36.06	/	-16	Pass
2483.5	2496.5	1	1	2483.513	-20.87	/	-16	Pass
2496.5	12500	1	1	5928.000	-33.78	/	-26	Pass

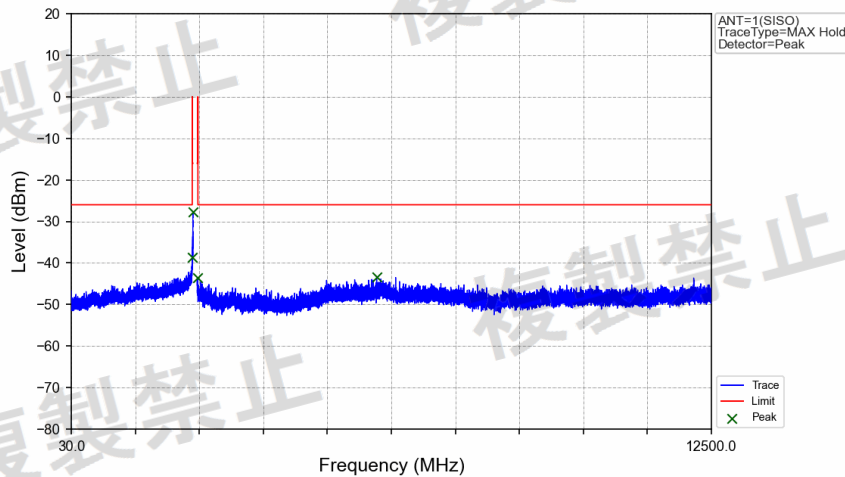
802.11n(HT40)_2422MHz_Ant1 (SISO)_NTNV



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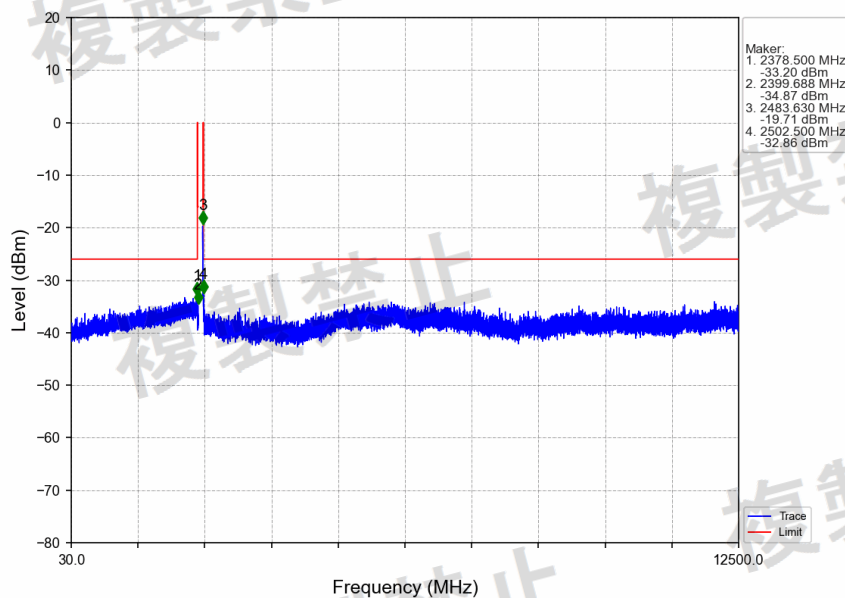
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802.11n(HT40)_2422MHz_Ant1 (SISO)_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	2387	1	1	2386.000	-38.64	/	-26	Pass
2387	2400	1	1	2399.948	-27.71	/	-16	Pass
2483.5	2496.5	1	1	2495.369	-43.62	/	-16	Pass
2496.5	12500	1	1	5979.500	-43.46	/	-26	Pass

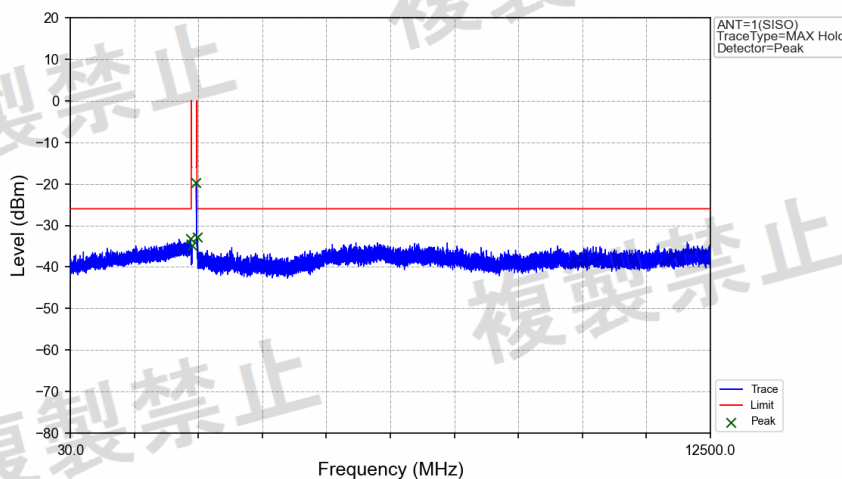
802.11n(HT40)_2462MHz_Ant1 (SISO)_NTNV



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802.11n(HT40)_2462MHz_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	2378.500	-33.20	/	-26	Pass
2387	2400	1	1	2399.688	-34.87	/	-16	Pass
2483.5	2496.5	1	1	2483.630	-19.71	/	-16	Pass
2496.5	12500	1	1	2502.500	-32.86	/	-26	Pass

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5. Secondary Radiated Emission

5.1 Test Result

5.1.1 RxSe_NTNV

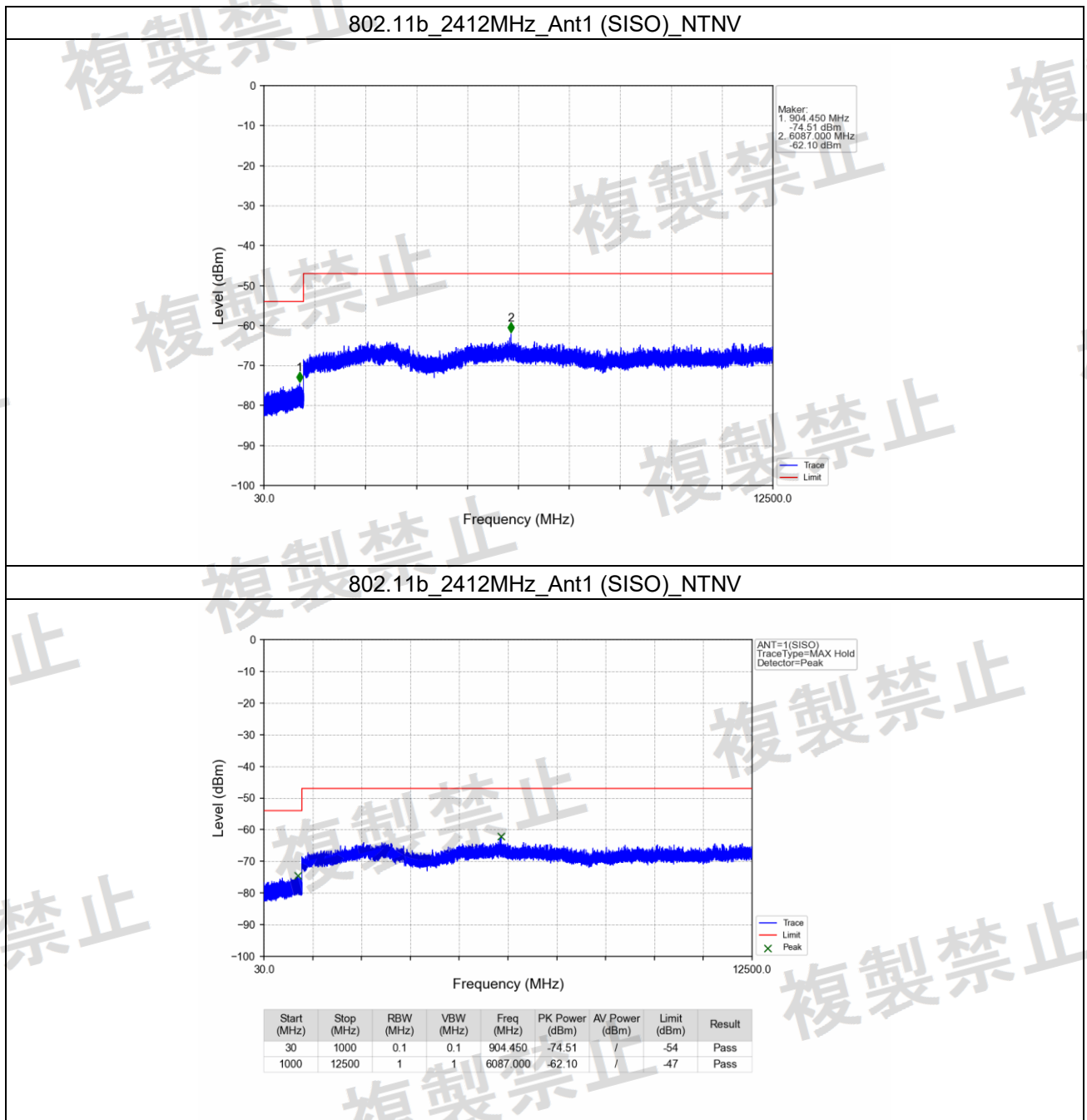
NTNV												
Mode	TX Type	Freq. (MHz)	ANT	Freq. Range		Marker					Limit (nW)	Verdict
				Start (MHz)	Stop (MHz)	Freq. (MHz)	PK Power (dBm)	PK Power (nW)	AV Power (dBm)	AV Power (nW)		
802.11b	SISO	2412	1	30	1000	904.45	-74.51	0.035	/	/	4	Pass
				1000	12500	6087	-62.10	0.617	/	/	20	Pass
		2472	1	30	1000	921.65	-73.88	0.041	/	/	4	Pass
				1000	12500	5641	-63.39	0.458	/	/	20	Pass
802.11g	SISO	2412	1	30	1000	875.55	-74.36	0.037	/	/	4	Pass
				1000	12500	6068	-63.06	0.494	/	/	20	Pass
		2472	1	30	1000	845	-75.21	0.030	/	/	4	Pass
				1000	12500	6235.5	-63.88	0.409	/	/	20	Pass
802.11n (HT20)	SISO	2412	1	30	1000	798.35	-74.15	0.038	/	/	4	Pass
				1000	12500	5485.5	-63.14	0.485	/	/	20	Pass
		2472	1	30	1000	499	-74.38	0.036	/	/	4	Pass
				1000	12500	6031	-63.68	0.429	/	/	20	Pass
802.11n (HT40)	SISO	2422	1	30	1000	928.1	-74.82	0.033	/	/	4	Pass
				1000	12500	3192.5	-62.41	0.574	/	/	20	Pass
		2462	1	30	1000	731.95	-74.16	0.038	/	/	4	Pass
				1000	12500	2694.5	-63.17	0.482	/	/	20	Pass

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5.2 Test Graph

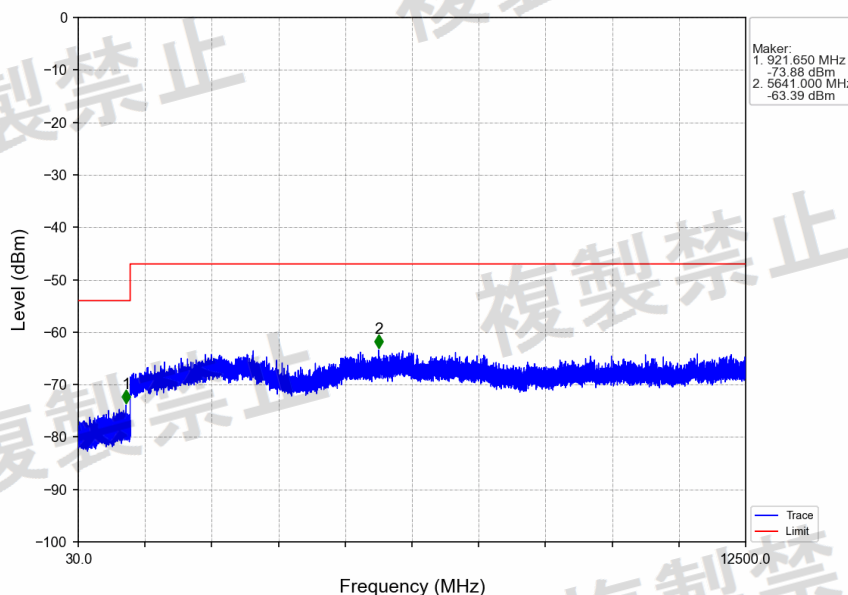
5.2.1 RxSe_NTNV



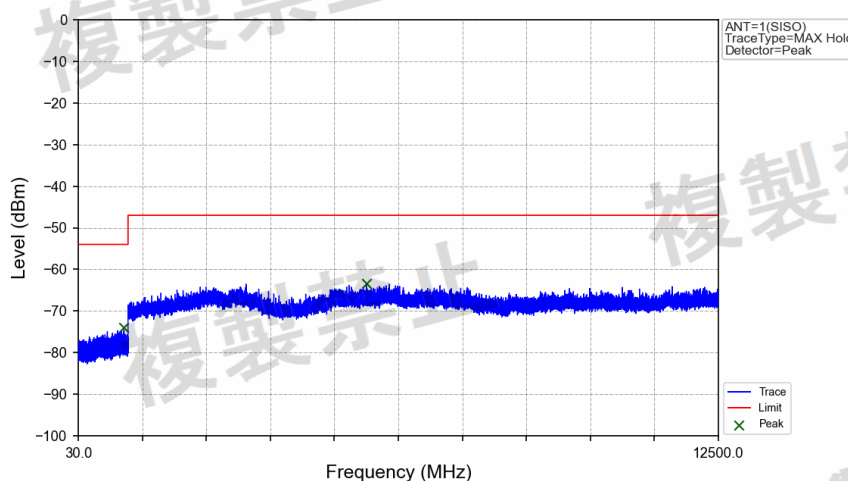
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802.11b_2472MHz_Ant1 (SISO)_NTNV



802.11b_2472MHz_Ant1 (SISO)_NTNV

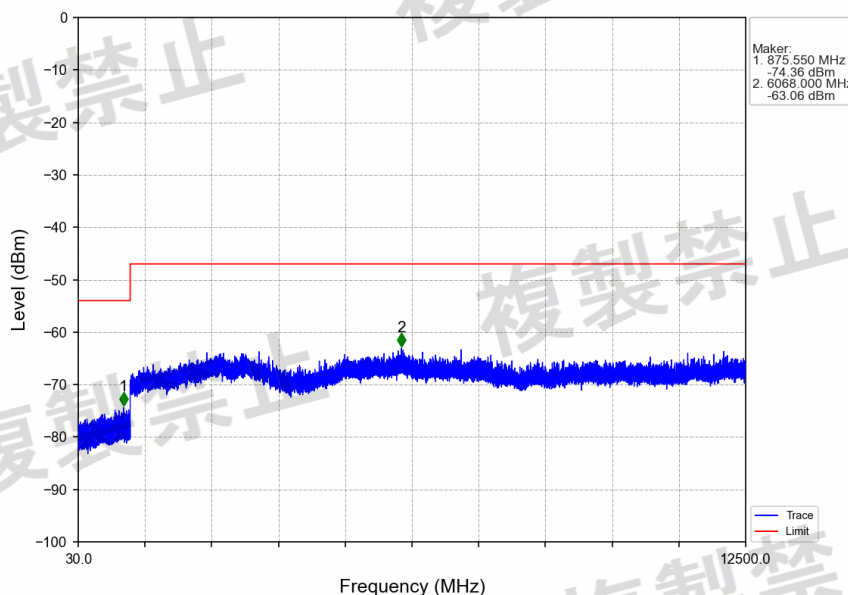


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	1000	0.1	0.1	921.650	-73.88	/	-54	Pass
1000	12500	1	1	5641.000	-63.39	/	-47	Pass

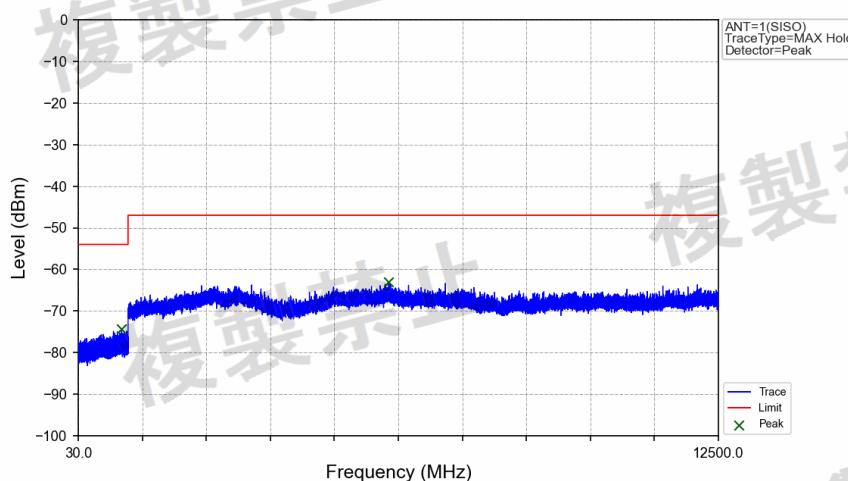
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802.11g_2412MHz_Ant1 (SISO)_NTNV



802.11g_2412MHz_Ant1 (SISO)_NTNV

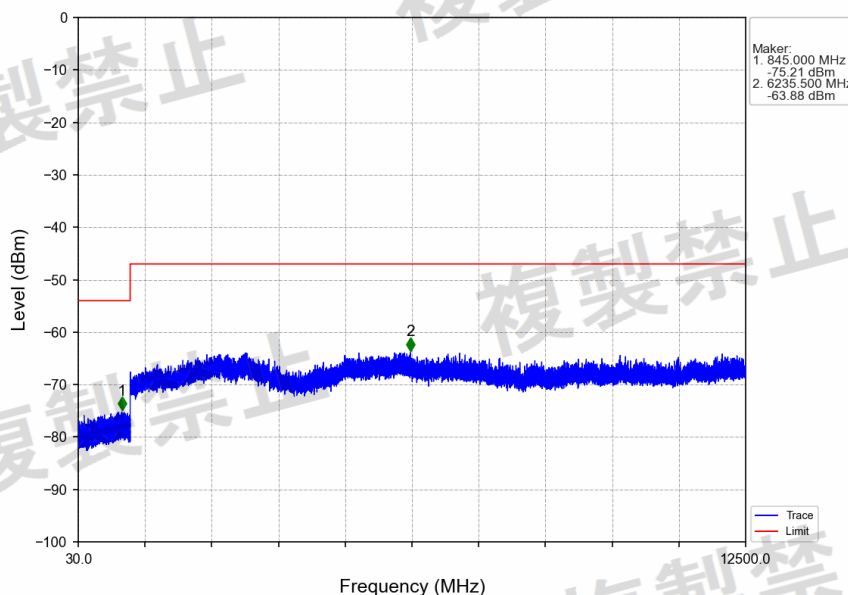


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	1000	0.1	0.1	875.550	-74.36	/	-54	Pass
1000	12500	1	1	6068.000	-63.06	/	-47	Pass

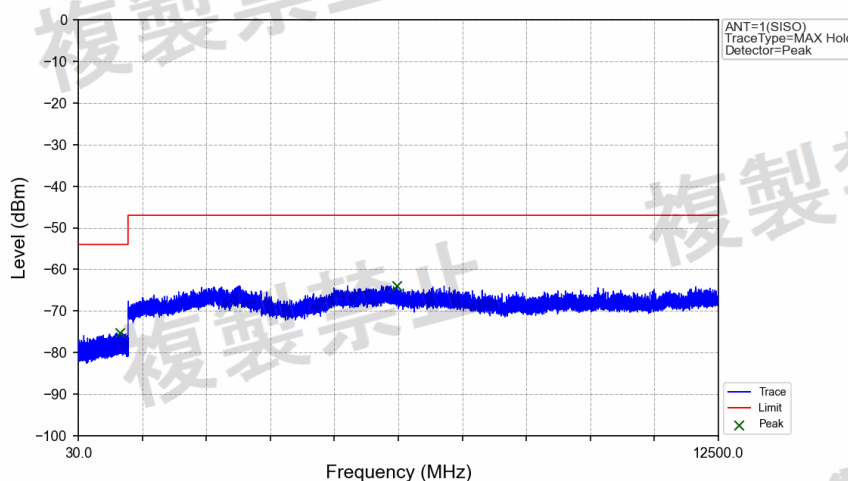
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802.11g_2472MHz_Ant1 (SISO)_NTNV



802.11g_2472MHz_Ant1 (SISO)_NTNV

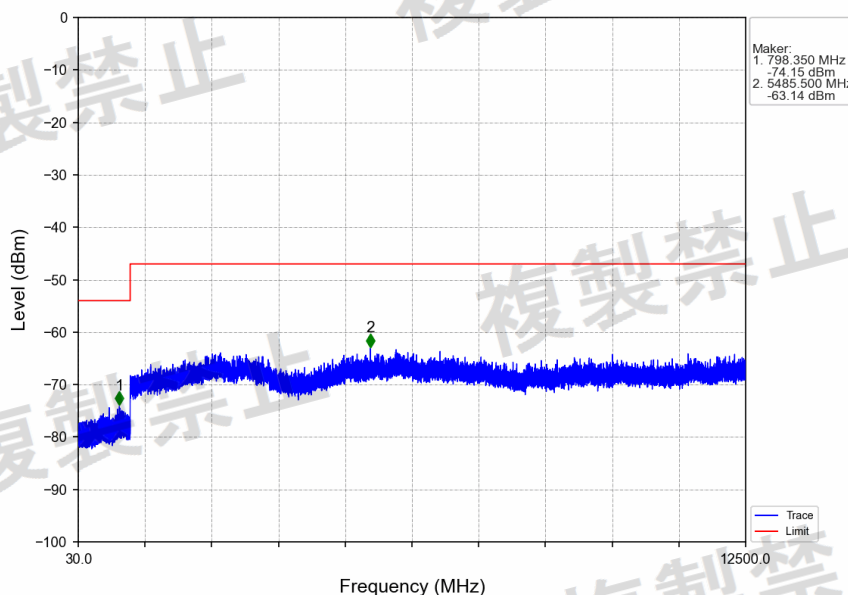


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	1000	0.1	0.1	845.000	-75.21	/	-54	Pass
1000	12500	1	1	6235.500	-63.88	/	-47	Pass

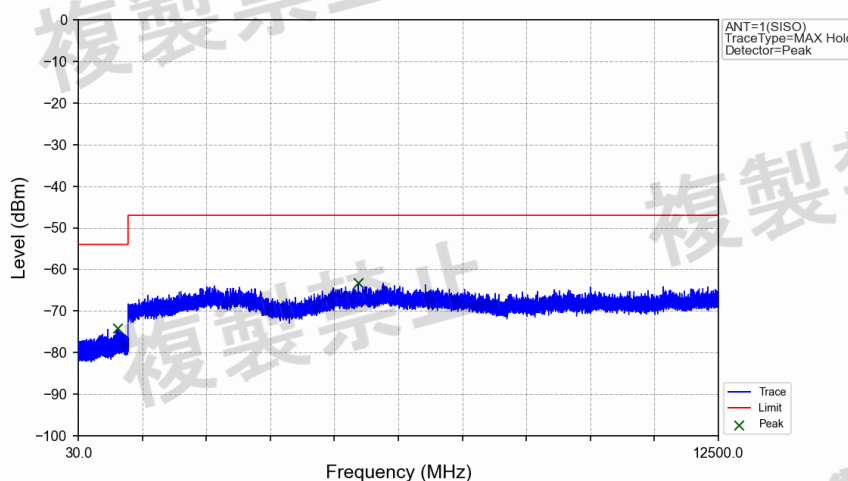
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802.11n(HT20)_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_2412MHz_Ant1 (SISO)_NTNV

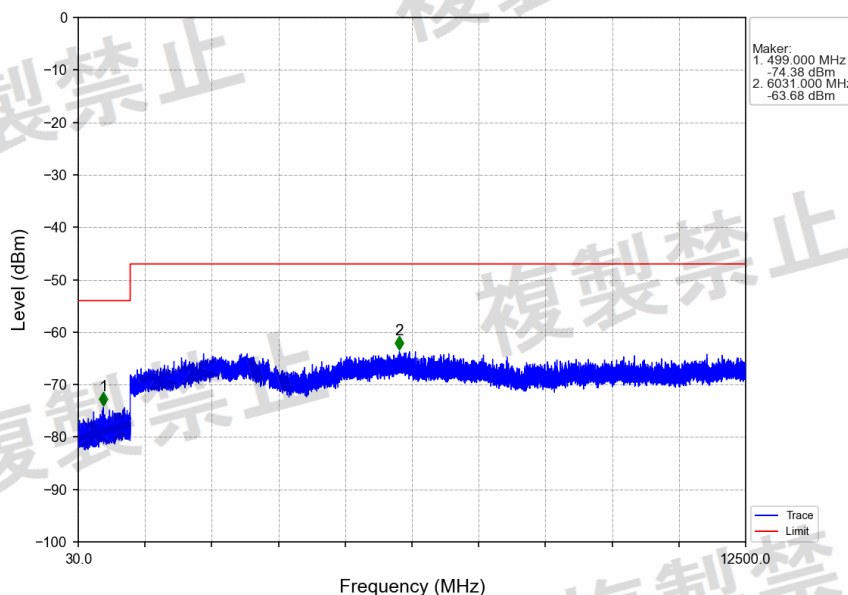


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	1000	0.1	0.1	798.350	-74.15	/	-54	Pass
1000	12500	1	1	5485.500	-63.14	/	-47	Pass

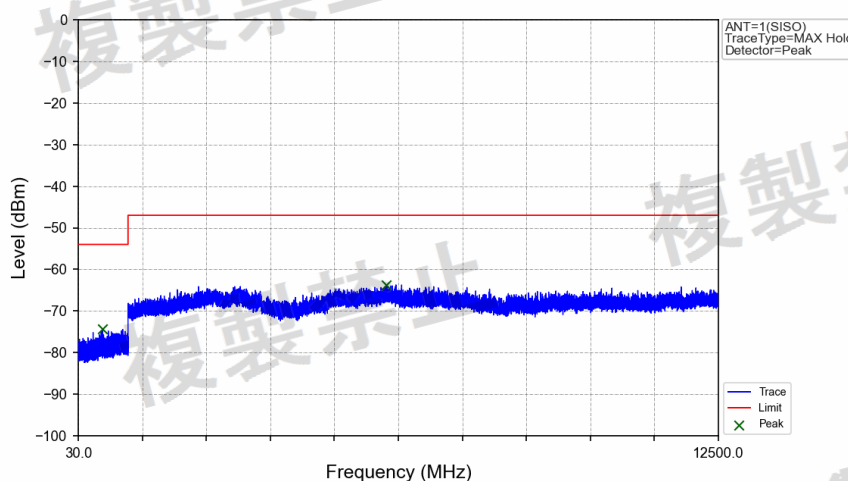
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802.11n(HT20)_2472MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_2472MHz_Ant1 (SISO)_NTNV

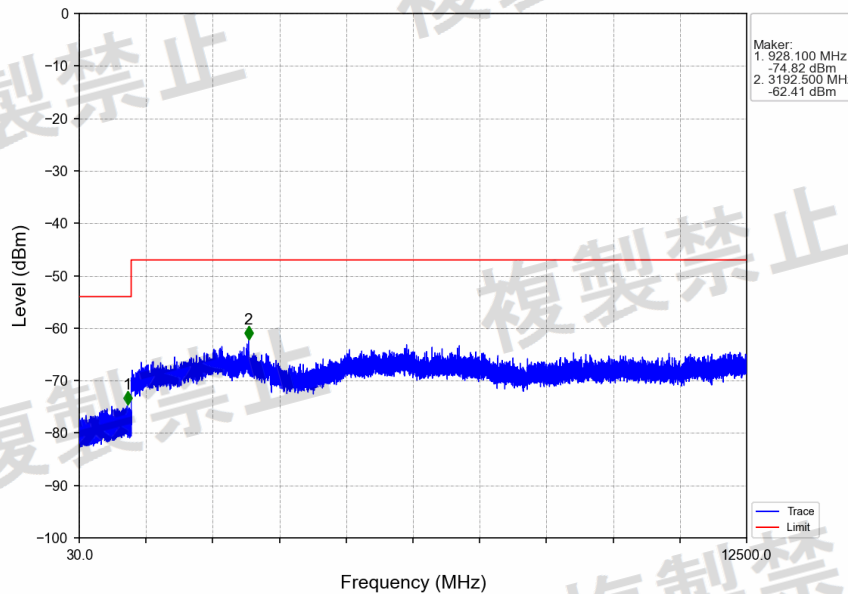


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	1000	0.1	0.1	499.000	-74.38	/	-54	Pass
1000	12500	1	1	6031.000	-63.68	/	-47	Pass

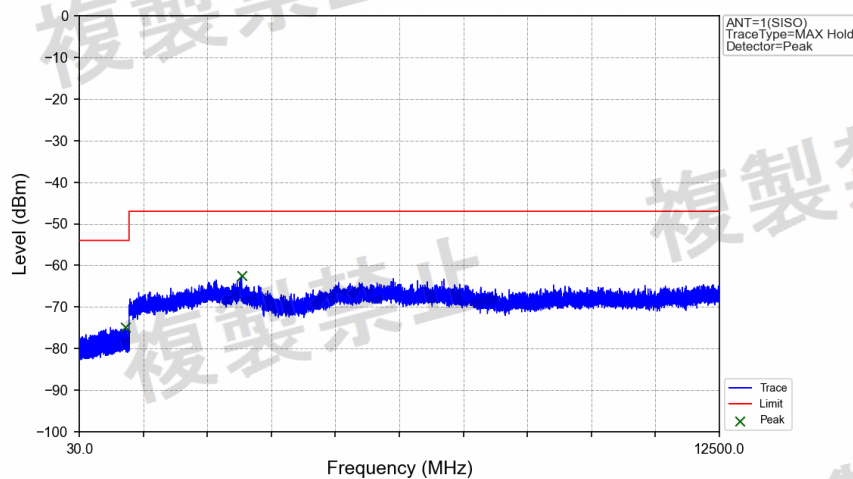
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802.11n(HT40)_2422MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_2422MHz_Ant1 (SISO)_NTNV

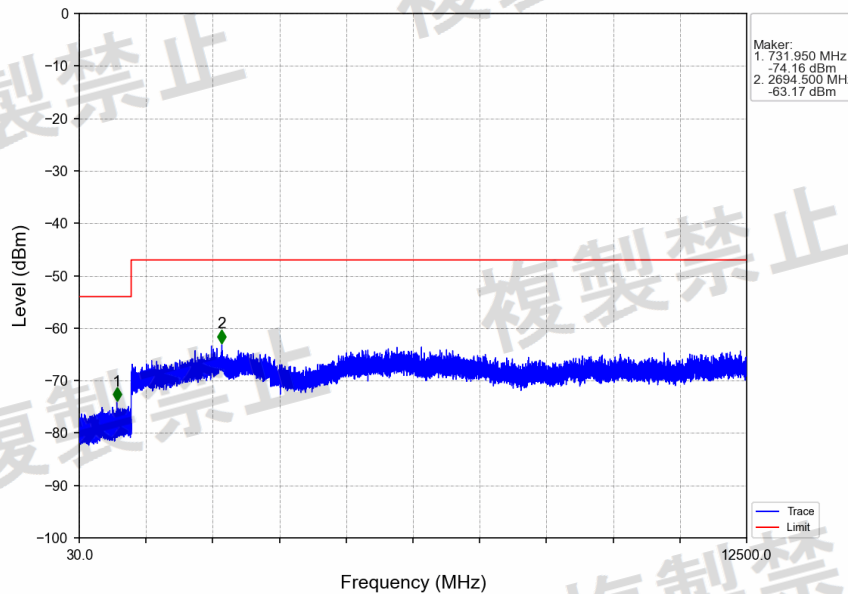


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	1000	0.1	0.1	928.100	-74.82	/	-54	Pass
1000	12500	1	1	3192.500	-62.41	/	-47	Pass

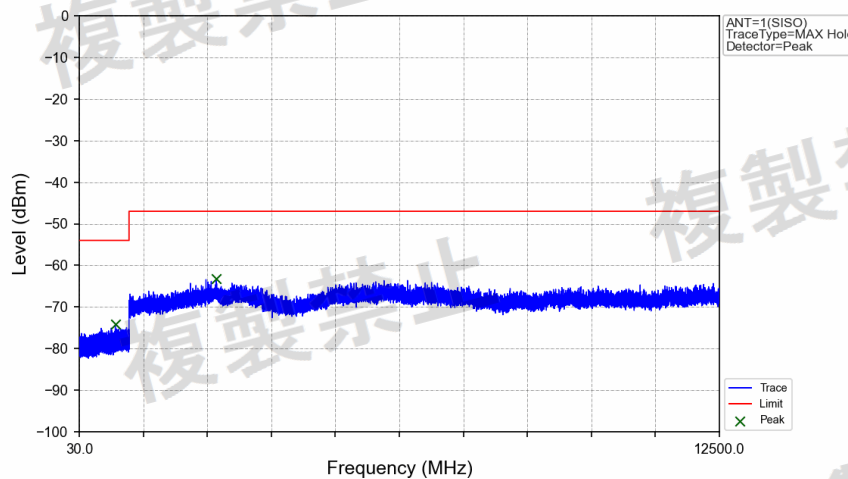
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802.11n(HT40)_2462MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_2462MHz_Ant1 (SISO)_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	1000	0.1	0.1	731.950	-74.16	/	-54	Pass
1000	12500	1	1	2694.500	-63.17	/	-47	Pass

- End of the Report -

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