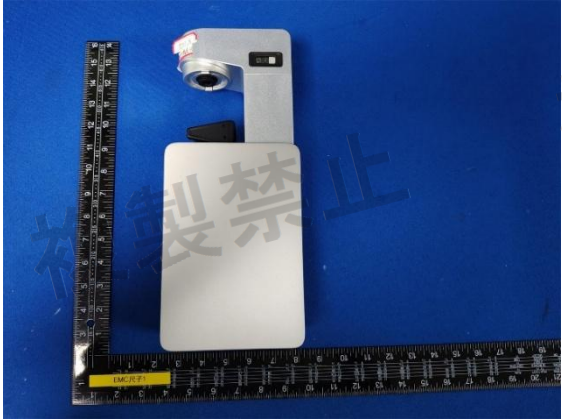


Prüfbericht-Nr.: Test report no.:	CN26NHPF 001	Auftrags-Nr.: Order no.:	27243155	Seite 1 von 23 Page 1 of 23
Kunden-Referenz-Nr.: Client reference no.:	N/A	Auftragsdatum: Order date:	2026-01-24	
Auftraggeber: Client:	Shining 3D Tech Co., Ltd. No. 1398 Xiangbin Road, Wenyan Street, Xiaoshan District, Hangzhou, Zhejiang, 311258, P.R China			
Prüfgegenstand: Test item:	3D Printer			
Bezeichnung / Typ-Nr.: Identification / Type no.:	Ceramix-Nano			
Auftrags-Inhalt: Order content:	Test Report			
Prüfgrundlage: Test specification:	Article 2 Section 1 Item 19			
Wareneingangsdatum: Date of sample receipt:	2026-04-01			
Prüfmuster-Nr.: Test sample no.:	A004240480-001 A004243109-001-003			
Prüfzeitraum: Testing period:	2026-06-18 - 2026-06-22			
Ort der Prüfung: Place of testing:	Shenzhen PSI Testing Co., Ltd.			
Prüflaboratorium: Testing laboratory:	TÜV Rheinland (Shenzhen) Co., Ltd.			
Prüfergebnis*: Test result*:	Pass			
geprüft von: tested by:	X <u>Breeze Jiang</u>		genehmigt von: authorized by:	X <u>Bell Hu</u>
Datum: Date:	2026-07-13	Ausstellungsdatum: Issue date:		2026-07-13
Stellung / Position:		Stellung / Position:		
Sachverständige(r)/Expert		Sachverständige(r)/Expert		
Sonstiges / Other:	This report is for 2.4GHz Wi-Fi.			
Zustand des Prüfgegenstandes bei Anlieferung: Condition of the test item at delivery:		Prüfmuster vollständig und unbeschädigt Test item complete and undamaged		
* Legende: P(ass) = entspricht o.g. Prüfgrundlage(n) F(ail) = entspricht nicht o.g. Prüfgrundlage(n) N/A = nicht anwendbar N/T = nicht getestet * Legend: P(ass) = passed a.m. test specification(s) F(ail) = failed a.m. test specification(s) N/A = not applicable N/T = not tested				
Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens. <i>This test report only relates to the above mentioned test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.</i>				

Prüfbericht-Nr.: CN26NHPF 001
Test report no.:

Seite 2 von 23
Page 2 of 23

Anmerkungen
Remarks

1	Alle eingesetzten Prüfmittel waren zum angegebenen Prüfzeitraum gemäß eines festgelegten Kalibrierungsprogramms unseres Prüfhauses kalibriert. Sie entsprechen den in den Prüfprogrammen hinterlegten Anforderungen. Die Rückverfolgbarkeit der eingesetzten Prüfmittel ist durch die Einhaltung der Regelungen unseres Managementsystems gegeben. Detaillierte Informationen bezüglich Prüfkonditionen, Prüfequipment und Messunsicherheiten sind im Prüflabor vorhanden und können auf Wunsch bereitgestellt werden. <i>The equipment used during the specified testing period was calibrated according to our test laboratory calibration program. The equipment fulfils the requirements included in the relevant standards. The traceability of the test equipment used is ensured by compliance with the regulations of our management system. Detailed information regarding test conditions, equipment and measurement uncertainty is available in the test laboratory and could be provided on request.</i>
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3	Prüfklausel mit der Note * wurden an qualifizierte Unterauftragnehmer vergeben und sind unter der jeweiligen Prüfklausel des Berichts beschrieben. Abweichungen von Prüfspezifikation(en) oder Kundenanforderungen sind in der jeweiligen Prüfklausel im Bericht aufgeführt. <i>Test clauses with remark of * are subcontracted to qualified subcontractors and described under the respective test clause in the report.</i> <i>Deviations of testing specification(s) or customer requirements are listed in specific test clause in the report.</i>
4	Die Entscheidungsregel für Konformitätserklärungen basierend auf numerischen Messergebnissen in diesem Prüfbericht basiert auf der "Null-Grenzwert-Regel" und der "Einfachen Akzeptanz" gemäß ILAC G8:2019 und IEC Guide 115:2023, es sei denn, in der auf Seite 1 dieses Berichts genannten angewandten Norm ist etwas anderes festgelegt oder vom Kunden gewünscht. Dies bedeutet, dass die Messunsicherheit nicht berücksichtigt wird und daher auch nicht im Prüfbericht angegeben wird. Zu weiteren Informationen bezüglich des Risikos durch diese Entscheidungsregel siehe ILAC G8:2019. <i>The decision rule for statements of conformity, based on numerical measurement results, in this test report is based on the "Zero Guard Band Rule" and "Simple Acceptance" in accordance with ILAC G8:2019 and IEC Guide 115:2023, unless otherwise specified in the applied standard mentioned on Page 1 of this report or requested by the customer. This means that measurement uncertainty is not taken in account and hence also not declared in the test report. For additional information to the resulting risk based of this decision rule please refer to ILAC G8:2019.</i>

Prüfbericht - Nr.: CN26NHPF 001
Test Report No.:

Seite 3 von 23
Page 3 of 23

Contents

1	GENERAL REMARKS	5
1.1	COMPLEMENTARY MATERIALS	5
2	TEST SITES	6
2.1	TEST FACILITIES	6
2.2	LIST OF TEST AND MEASUREMENT INSTRUMENTS.....	6
2.3	UNCERTAINTY OF MEASUREMENT	6
3	GENERAL PRODUCT INFORMATION	7
3.1	PRODUCT FUNCTION AND INTENDED USE.....	7
3.2	RATINGS AND SYSTEM DETAILS	7
3.3	ANTENNA SPECIFICATIONS.....	8
3.3.1	Antenna Gain	8
3.3.2	Antenna Pattern	8
3.4	NOISE GENERATING AND NOISE SUPPRESSING PARTS.....	8
3.5	SUBMITTED DOCUMENTS.....	8
4	TEST SET-UP AND OPERATION MODES	9
4.1	PRINCIPLE OF CONFIGURATION SELECTION	9
4.2	TEST OPERATION AND TEST SOFTWARE	9
4.3	SPECIAL ACCESSORIES AND AUXILIARY EQUIPMENT	9
4.4	COUNTERMEASURES TO ACHIEVE EMC COMPLIANCE	9
5	TEST RESULTS	10
5.1	FREQUENCY TOLERANCE MEASUREMENT.....	10
5.1.1	Limits of Frequency Tolerance Measurement.....	10
5.1.2	Test Setup	10
5.1.3	Condition of Measuring Instrument	10
5.1.4	Condition of Test Equipment.....	10
5.1.5	Measurement Procedure.....	10
5.1.6	Test Results	10
5.2	OCCUPIED BANDWIDTH MEASUREMENT (99% POWER BANDWIDTH).....	11
5.2.1	Limits of Occupied Bandwidth Measurement.....	11
5.2.2	Test Setup	11
5.2.3	Measuring Instrument Conditions	11
5.2.4	Test Results	11
5.3	SPREADING BANDWIDTH MEASUREMENT (90% POWER BANDWIDTH).....	12
5.3.1	Limits of Spreading Bandwidth and Spreading Factor.....	12
5.3.2	Test Setup	12
5.3.3	Measuring Instrument Conditions	12
5.3.4	Test Results	12
5.4	SPURIOUS EMISSIONS FOR TRANSMITTER MEASUREMENT	13
5.4.1	Limits of Spurious Emissions	13
5.4.2	Test Setup	13
5.4.3	Conditions of The Measuring Instrument.....	13
5.4.4	Others.....	13

Prüfbericht - Nr.: CN26NHPF 001
Test Report No.:

Seite 4 von 23
Page 4 of 23

5.4.5	Conditions of the measuring instrument.....	14
5.4.6	Test Results	14
5.5	ANTENNA POWER MEASUREMENT	15
5.5.1	Limits of Antenna Power	15
5.5.2	Test Setup	15
5.5.3	Condition of Measuring Instrument	15
5.5.4	Condition of Test Equipment	16
5.5.5	Measurement Procedure	16
5.5.6	Test Results	17
5.6	SPURIOUS EMISSIONS FOR RECEIVER	18
5.6.1	Limits of Spurious Emissions for Receiver	18
5.6.2	Test Setup	18
5.6.3	Measurement Procedure	18
5.6.4	Test Results	18
5.7	INTERFERENCE PREVENTION FUNCTION	19
5.7.1	Limits of Interference Prevention Function	19
5.7.2	Test Setup	19
5.7.3	Condition of Measuring Instrument	19
5.7.4	Measurement procedure	19
5.7.5	How to describe test results	20
5.7.6	Test Results	20
5.8	CARRIER SENSING	21
5.8.1	Test Setup	21
5.8.2	Measurement procedure	21
5.8.3	Test Results	21
6	PHOTOGRAPHS OF THE TEST SET-UP	22
7	LIST OF TABLES	23
8	LIST OF PHOTOGRAPHS	23

Prüfbericht - Nr.: CN26NHPF 001
Test Report No.:

Seite 5 von 23
Page 5 of 23

1 General Remarks

1.1 Complementary Materials

All attachments are integral parts of this test report. This applies especially to the following appendix:
Appendix A: Test result of WI-FI 2.4GHz Band.

Prüfbericht - Nr.: CN26NHPF 001
Test Report No.:

Seite 6 von 23
Page 6 of 23

2 Test Sites

2.1 Test Facilities

Shenzhen PSI Testing Co., Ltd.

1-2F, Building 5, Yudafu Industrial Park, No. 10, Xingye West Road, Shajing Street, Bao'an District, Shenzhen, Guangdong, China 518104
A2LA Certificate Number: 6975.01
CNAS Registration Number: CNAS L19010

The tests at the test sites have been conducted under the supervision of a TÜV engineer.

2.2 List of Test and Measurement Instruments

Table 1: List of Test and Measurement Equipment

JRF							
Equipment	Manufacturer	Model	Serial No.	Cal. Date	Cal. until	Calibration Body	Calibration Method*
Spectrum analyzer	Agilent	N9020A	MY51281067	2025.12.18	2026.12.17	CCIC*	c
RF Power Probe	Rohde&Schwarz	NRP-Z11	1138.3004.02-1111533-Fz	2025.12.18	2026.12.17	CCIC	c
Vector Signal Generator	Agilent	N5182A	MY47420724	2025.12.18	2026.12.17	CCIC	c

Calibration Method:

- Calibration conducted by the National Institute of Information and Communications Technology (NICT) (hereinafter referred to as "NICT") or a designated calibration agency under Article 102-18 paragraph (1)
- Correction conducted pursuant to the provisions of Article 135 or Article 144 of the Measurement Law (Law No. 51 of 1992)
- Calibration conducted in foreign countries, which shall be equivalent to the calibration conducted by the NICT or a designated calibration agency under Article 102-18 paragraph (1)
- Calibration conducted by using measuring instruments and other equipment listed in the right column of Table No. 3 attached hereto, which shall have been given any of calibration, etc. listed above from a) to c)

* China Certification & Inspection (Group) Co., Ltd. (CCIC)

2.3 Uncertainty of Measurement

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

Table 2: Measurement Uncertainty

Parameter	Uncertainty
Uncertainty for Radio Frequency	48.24KHz
Uncertainty for Conducted RF Power	0.41dB
Uncertainty for Power Spectral Density	0.39 dB
Occupied-Bandwidth	968Hz
Conducted-Spurious Emission	1.26dB

Prüfbericht - Nr.: **CN26NHPF 001**
Test Report No.:

Seite 7 von 23
Page 7 of 23

3 General Product Information

3.1 Product Function and Intended Use

The product is 3D Printer. It supports 5GHz Wi-Fi and 2.4GHz Wi-Fi functions.
This report is for 2.4GHz Wi-Fi operation.

For details refer to the User Manual, Technical Description and Circuit Diagram.

3.2 Ratings and System Details

Table 3: Technical Specification of EUT

General Information of EUT	Description
Kind of Equipment:	3D Printer
Type Designation:	Ceramix-Nano
Trademark:	SHINING 3D
Operating Voltage:	DC 20V Via AC/DC Adapter
Operating Temperature Range:	+18 °C ~ +32 °C
Adapter:	Manufacturer: Yingyuan Power Supply(suzhou) Co, Ltd. Model: TYPE-C1001C Input: 100-240V AC Output: DC 20V/50A, 100W Max
Hardware release No.:	V1.3
Software release No.:	4.1.80.108
MIC ID:	201-260500
Technical Specification of 2.4GHz Wi-Fi	
Characteristic	Description
Frequency Range:	2412 - 2472 MHz for 802.11b/g/n(HT20) 2422 - 2462 MHz for 802.11n(HT40)
Type of Modulation:	DSSS, OFDM
Data Rate:	1/2/5.5/11 Mbps for 802.11b 6/9/12/18/24/36/48/54 Mbps for 802.11g MCS0 ~ MCS7 for 802.11n (All data rates considered, only the Worst-cases reported)
Channel Number:	13 channels for 802.11b/g/n(HT20) 9 channels for 802.11n(HT40)
Channel Separation:	5 MHz
Antenna Type:	Integral Antenna
Antenna Number:	2Tx2Rx
Antenna Gain:	4.15dBi for Antenna 1; 3.23dBi for Antenna 2; Max (Provided by the Client)
rated RF output power:	Please refer to Note 1
Conducted RF output power:	Please refer to Note 1
EIRP output power:	Please refer to Note 1

Prüfbericht - Nr.: CN26NHPF 001
Test Report No.:

Seite 8 von 23
Page 8 of 23

Note: The correctness of all data provided by customer in the test report is ensured and responsible of the customer. Any misjudgment of the test results caused by the use of incorrect data provided by customer shall be borne by the customer.

Note 1: The power table as below table:

2.4GHz Wi-Fi			
Test mode	Rated power density (mW/MHz)	Conducted power density (mW/MHz)	EIRP power density (mW/MHz)
802.11 b	10.00	1.26	3.27
802.11 g	10.00	1.69	4.25
802.11 n(HT20)	10.00	3.37	8.77
802.11 n(HT40)	5.00	1.79	4.67

Table 4: RF Channel and Frequency

Technologies	Bandwidth	Test Channels (MHz)
2.4GHz Wi-Fi	20MHz	L/M/H: 2412, 2442, 2472
	40MHz	L/M/H: 2422, 2442, 2462

3.3 Antenna Specifications

3.3.1 Antenna Gain

Ant. Type	Connector Type	Highest Peak Gain (dBi) 2.4GHz ~ 2.5GHz
Integral Antenna	N/A	4.15dBi for Antenna 1; 3.23dBi for Antenna 2;

3.3.2 Antenna Pattern

Please refer to the attached file (Antenna report).

3.4 Noise Generating and Noise Suppressing Parts

For details refer to the Circuit Diagram.

3.5 Submitted Documents

- Application Form
- User Manual
- Operation Description
- Rating Label

4 Test Set-up and Operation Modes

4.1 Principle of Configuration Selection

Emission: The equipment under test (EUT) was configured to measure its highest possible radiation level. The test modes were adapted accordingly in reference to the instructions for use.

Radio Spectrum: The equipment under test (EUT) was configured at its highest power output in order to measure its highest possible radiation and conducted level. The test modes were adapted accordingly in reference to the instructions for use.

4.2 Test Operation and Test Software

Test operation refers to test setup in chapter 5 and chapter 6.

According to clause 3.1, all tests were performed on model *Ceramix-Nano* in this report.

The RF circuits are located inside of the EUT. The RF circuit was covered by metal shielding case, also it won't be easy to be opened. Frequency Band, channels and modulation parameters are fixed inside the module. They cannot be edited or modified by end-user.

Table 5: Test Conditions

Test conditions	Unit
Voltage _{normal}	3.3V dc
Voltage _{max}	3.3V dc
Voltage _{min}	3.3V dc
Temperature	24 deg.C
Humidity	56 %

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

4.3 Special Accessories and Auxiliary Equipment

Table 6: List of Accessories and Auxiliary Equipment

Description	Manufacturer	Model	S/N
Laptop	hp	--	--

4.4 Countermeasures to Achieve EMC Compliance

The test sample which has been tested contained the noise suppression parts as described in the Technical Construction File (TCF).

No additional measures were employed to achieve compliance.

Prüfbericht - Nr.: **CN26NHPF 001**
Test Report No.:

Seite 10 von 23
Page 10 of 23

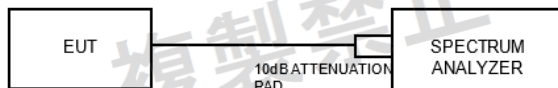
5 Test Results

5.1 Frequency Tolerance Measurement

5.1.1 Limits of Frequency Tolerance Measurement

Tolerance of frequency shall be +/- 50ppm

5.1.2 Test Setup



5.1.3 Condition of Measuring Instrument

- (1) As a frequency meter, use a frequency counter or spectrum analyzer (with a synthesizer type local oscillator).
- (2) The measurement accuracy of the frequency meter shall be 1/10 or less of the allowable value specified in the Equipment Regulations.
- (3) When measuring burst waves, set the gate open time to the time that allows the entire burst section to be measured.

5.1.4 Condition of Test Equipment

- (1) Set the test frequency and transmit.
- (2) Stop modulation and continuously transmit non-modulated waves. However, if modulation is stopped and continuous transmission of unmodulated waves cannot be performed, continuous burst transmission of unmodulated waves or a modulation state that produces a characteristic frequency spectrum whose frequency can be measured by a spectrum analyzer is used.

5.1.5 Measurement Procedure

- (1) In the case of unmodulated waves (continuous or continuous burst), measure directly with a frequency meter.
- (2) In the case of burst waves, measure for the time period when sufficient accuracy is obtained, calculate the average value, and use it as the measured value.
- (3) If the test mode produces a characteristic frequency spectrum, measure the frequency of that spectrum with a spectrum analyzer.

5.1.6 Test Results

Result **PASS**

For the measurement records, refer to the appendix A.

Prüfbericht - Nr.: **CN26NHPF 001**
Test Report No.:

Seite 11 von 23
Page 11 of 23

5.2 Occupied Bandwidth Measurement (99% Power Bandwidth)

5.2.1 Limits of Occupied Bandwidth Measurement

Item	Limit	Remark
Occupied bandwidth	shall be 83.5MHz or less	FHSS
Occupied bandwidth	<26MHz	For 20M
Occupied bandwidth	<40MHz	For 40M

5.2.2 Test Setup



5.2.3 Measuring Instrument Conditions

Set the spectrum analyzer as follows.

Center frequency: Test frequency

Sweep frequency width From about 2 times to about 3.5 times the allowable value specified in the equipment regulations

Resolution bandwidth: 3% or less of the allowable value specified in the equipment regulations

Video bandwidth: Same as resolution bandwidth

Input level : The level at which the carrier wave level can be measured without being affected by the noise level of the spectrum analyzer.

Sweep time: Minimum time for guaranteed measurement accuracy

(In the case of burst waves, when more than 1 burst per sample)

Sweep mode: Continuous sweep

Detection mode: Positive peak (Note)

Display mode: Max hold (Note)

Note: For OFDM and other than burst waves, the following shall apply.

Average processing times 10 times or more

Detection mode sample

5.2.4 Test Results

Result **PASS**

For the measurement records, refer to the appendix A.

Prüfbericht - Nr.: **CN26NHPF 001**
Test Report No.:

Seite 12 von 23
Page 12 of 23

5.3 Spreading Bandwidth Measurement (90% Power Bandwidth)

5.3.1 Limits of Spreading Bandwidth and Spreading Factor

Item	Limit	Remark
Spreading Bandwidth	$\geq 500\text{kHz}$	(For DSSS, FHSS)
Spreading Factor	≥ 5	Operating frequency 2400 to 2483MHz
	≥ 10	Operating frequency 2471 to 2497MHz

5.3.2 Test Setup



5.3.3 Measuring Instrument Conditions

Set the spectrum analyzer as follows.

Center frequency: Test frequency

Sweep frequency width: From about 2 times to about 3.5 times the allowable value specified in the equipment regulations

Resolution bandwidth: 3% or less of the allowable value specified in the equipment regulations

Video bandwidth: Same as resolution bandwidth

Input level: The level at which the carrier wave level can be measured without being affected by the noise level of the spectrum analyzer.

Sweep time: Minimum time for guaranteed measurement accuracy
(In the case of burst waves, when more than 1 burst per sample)

Sweep mode: Continuous sweep

Detection mode: Positive peak (Note)

Display mode: Max hold (Note)

Note: For OFDM and other than burst waves, the following shall apply.

Average processing times 10 times or more

Detection mode sample

5.3.4 Test Results

Result **PASS**

For the measurement records, refer to the appendix A.

Prüfbericht - Nr.: **CN26NHPF 001**
Test Report No.:

Seite 13 von 23
Page 13 of 23

5.4 Spurious Emissions for Transmitter Measurement

5.4.1 Limits of Spurious Emissions

Frequencies (MHz)	Limit
Operating frequency 2400 to 2483.5MHz	
30.0MHz to 2387MHz	$\leq 2.5\mu\text{W/MHz}$
2387.0MHz to 2400.0MHz	$\leq 25\mu\text{W/MHz}$
2483.5MHz to 2496.5MHz	$\leq 25\mu\text{W/MHz}$
2496.5MHz to 12500.0MHz	$\leq 2.5\mu\text{W/MHz}$

5.4.2 Test Setup



5.4.3 Conditions of The Measuring Instrument.

- (1) The spectrum analyzer when searching for **unwanted emissions** is set as follows.
 - Sweep frequency width: 30MHz to 26GHz (Note)
 - Resolution bandwidth: 1MHz
 - Video bandwidth: Same as resolution bandwidth
 - Y-axis scale: 10dB/Div
 - Input level: Maximum dynamic range value
 - Sweep time: The minimum time for which measurement accuracy is guaranteed (in the case of burst waves, it can be longer than the time obtained by "(sweep frequency width (MHz)/resolution Bandwidth (MHz)) × burst period (s)".) It can be longer than the time required
 - Number of data points: 400 or more data points
 - Sweep mode: Single sweep
 - Detection mode: positive peak
- (2) Set the spectrum analyzer as follows when measuring unwanted emission amplitude.
 - Center frequency: Unwanted emission frequency (searched frequency)
 - Sweep frequency width: 0Hz
 - Resolution bandwidth: 1MHz
 - Video bandwidth: Same as resolution bandwidth
 - Y-axis scale: 10dB/Div
 - Input level Maximum dynamic range value
 - Sweep time; The minimum time for which the measurement accuracy is guaranteed (in the case of burst waves, the duration of one burst or more)
 - Number of data points: 400 or more data points
 - Sweep mode: Single sweep
 - Detection mode: sample

5.4.4 Others

- (1) In 2(2), the detection mode of the spectrum analyzer at the time of amplitude measurement can use RMS (referred to as the true value of power) instead of sampling.
- (2) In (1), if the burst time rate (Note) of unwanted emission is obtained for each unwanted emission frequency, the sweep frequency width can be set to about 10 MHz in (2).

Note: Burst time rate = time during which radio waves are emitted/burst period

Prüfbericht - Nr.: CN26NHPF 001
Test Report No.:

Seite 14 von 23
Page 14 of 23

5.4.5 Conditions of the measuring instrument

- (1) Use a carrier suppression filter as necessary.
 - (2) The settings of the spectrum analyzer when searching for spurious are as follows.
Sweep frequency width: Search for spurious from the lowest possible frequency to three times or more of the carrier frequency.
Resolution bandwidth: 100 kHz below 1 GHz, 1 MHz above 1 GHz
Video bandwidth: Same as resolution bandwidth
Y-axis scale: 10dB/Div
Input level: Maximum dynamic range value
Sweep time: Minimum time for guaranteed measurement accuracy
Number of data points: 400 or more data points
Sweep mode: Single sweep
Detection mode: positive peak
 - (3) Set the spectrum analyzer for spurious measurement as follows.
Center frequency: Searched spurious frequency
Sweep frequency: 0Hz
Resolution bandwidth: 10 kHz below 30 MHz, 100 kHz between 30 MHz and 1 GHz, 1 MHz above 1 GHz
Video bandwidth: Same as resolution bandwidth
Y-axis scale: 10dB/Div
Input level: Set the amplitude of the carrier wave near the maximum in the linear region of the mixer.
Sweep time: Minimum time for guaranteed measurement accuracy
Number of data points: 400 or more data points
Sweep mode: Single sweep
Detection mode: sample
- Spurious Emission
- (1) Set the spectrum analyzer as follows when searching.
Sweep frequency width: 30MHz to 5 times the carrier frequency
Resolution bandwidth: 100 kHz for frequencies below 1 GHz, 1 MHz for frequencies above 1 GHz
Video bandwidth: Same as resolution bandwidth
Sweep time: Minimum time for guaranteed measurement accuracy
Sweep mode: Single sweep
Detection mode: positive peak
 - (2) Set the spectrum analyzer for secondary emission measurement as follows.
Center frequency: Secondary emission frequency
Sweep frequency width: 0Hz
Resolution bandwidth: 100 kHz for frequencies below 1 GHz, 1 MHz for frequencies above 1 GHz
Video bandwidth: Same as resolution bandwidth
Sweep time: Minimum time for guaranteed measurement accuracy
Sweep mode: Single sweep
Detection mode: sample

5.4.6 Test Results

Result

PASS

For the measurement records, refer to the appendix A.

5.5 Antenna Power Measurement

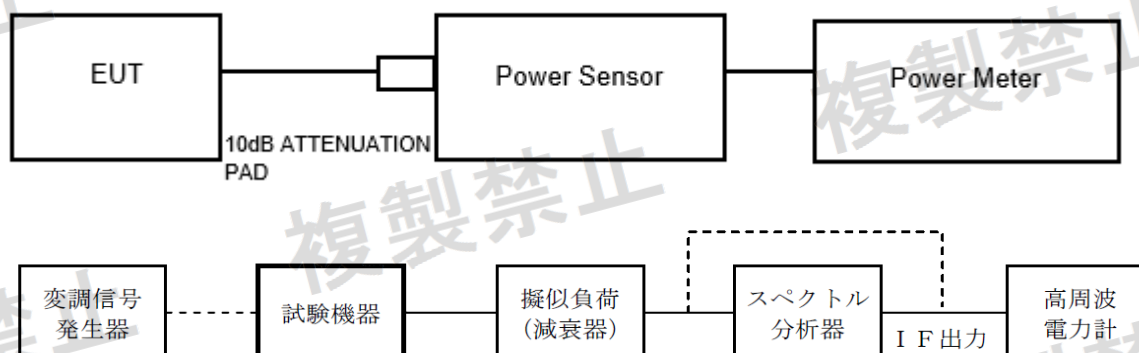
5.5.1 Limits of Antenna Power

Modulation system	Frequency band used	Antenna power (max.)	EIRP (max)	
			Omni-directional case	Directional case
FHSS	2,400 – 2,4835 MHz	3mW/MHz	--	--
DS.OFDM (Narrow-Band)	2,400 – 2,4835 MHz	10mW/MHz	12.14 dBm/MHz (16.367 mW/MHz)	22.14 dBm/MHz (163.682 mW/MHz)
OFDM (Wide-Band)	2,400 – 2,4835 MHz	5mW/MHz	9.13dBm/MHz (8.185mW/MHz)	19.13dBm/MHz (81.846mW/MHz)
DTS	2,400 – 2,4835 MHz	10mW	12.14 dBm (16.367 mW)	22.14 dBm (163.682 mW)

Tolerance of antenna power shall be +20% (upper value) and –80% (lower value).

According article 49.20 f(2) The angular width of the principal radiation in the horizontal and vertical planes of the transmitting antenna shall not exceed the value obtained by the following expression. $360/A$ degree
A represents the value determined by dividing an equivalent isotropically radiated power by the value obtained by applying an antenna power with the mean power of 10 mW to the transmitting antenna with its absolute gain being 2.14 dB, and shall be 1 when it is lower than 1.

5.5.2 Test Setup



Note: A high-frequency power meter is directly connected to the output of a dummy load (attenuator) when measuring the total power of a system other than the orthogonal frequency division multiplexing system or the spread spectrum system using direct spreading.

5.5.3 Condition of Measuring Instrument

- (1) Measure the equivalent noise bandwidth at the resolution bandwidth of 1 MHz of the spectrum analyzer, correct the bandwidth to the 1 MHz equivalent bandwidth, and read the displayed value. However, when the spread bandwidth is 1 MHz or less, correction shall be performed only when "spread bandwidth (MHz)/equivalent noise bandwidth (MHz)" exceeds 1.
- (2) The attenuation of the dummy load (attenuator) shall be the value that gives the optimum operating input level to the spectrum analyzer.
- (3) Set the spectrum analyzer as follows when searching for the frequency that gives the maximum antenna power.

Prüfbericht - Nr.: CN26NHPF 001
Test Report No.:

Seite 16 von 23
Page 16 of 23

Center frequency:	Test frequency
Sweep frequency width:	About twice the occupied frequency bandwidth
Resolution bandwidth:	1MHz
Video bandwidth:	About three times the resolution bandwidth
Sweep time:	Minimum time for guaranteed measurement accuracy
(In the case of burst waves, the time at which one or more bursts are included per sample)	
Trigger condition:	Free run
Sweep mode:	Continuous sweep
Detection mode:	positive peak
Display mode:	Max hold

- (4) Set the spectrum analyzer as follows when measuring the antenna power.
- | | |
|------------------------|---|
| Center frequency | The frequency that gives the maximum power (searched frequency) |
| Sweep frequency width: | 0Hz |
| Resolution bandwidth: | 1MHz |
| Video bandwidth : | Same as resolution bandwidth |
| Sweep mode: | Continuous sweep |

5.5.4 Condition of Test Equipment

- (1) Set to the test frequency and enter the continuous transmission state or continuous burst transmission state.
- (2) If a spread code is used, set it to the test spread code and modulate it with the standard coded test signal.
- (3) If the orthogonal frequency division multiplexing system is used, it shall be in a burst transmission state and in a modulation state in which the proportion of time in which the number of subcarriers is the smallest is maximized. At this time, it is performed within a range that can occur continuously in the actual operation. However, when the modulation cannot be set, it can be performed in continuous burst transmission state or continuous transmission state.

5.5.5 Measurement Procedure

(1) Those using frequency hopping method (including DSSS or composite method with OFDM)

- a. Confirming in the submitted document that the frequency hopping intervals in the frequency distribution of frequency hopping are equal intervals of 1 MHz or less, and that the probability of occurrence at each hopping frequency is uniform, and that the probability of occurrence at each hopping frequency is uniform. If it is, it is implemented by the following method.
- (a) Connect a high frequency power meter to the output of the dummy load (attenuator) and measure the total power.
- (b) Divide the total power by the spreading bandwidth to calculate the average power per 1 MHz.
- (c) Antenna power shall be as follows.
- A Value of (b) for continuous wave
- B For burst wave Average power in burst is calculated from the value of (b) and the transmission time rate.
- b. If the frequency distribution of frequency hopping or the probability of occurrence at each hopping frequency is not uniform, set the spectrum analyzer as in 2(3) to search for the frequency that gives the maximum antenna power, and then perform spectrum analysis. Set the device as in 2(4), and measure the antenna power at the frequency that gives the maximum power.

(2) In the case of those using OFDM or DSSS

- a. Set the spectrum analyzer as in 2(3).
- b. After repeating the sweep until no change is observed in the display, measure the frequency at which the power per 1 MHz gives the maximum value.
- c. Set the spectrum analyzer as in 2(4).
- d. Connect the high frequency power meter to the IF output terminal of the spectrum analyzer.
- e. Antenna power shall be as follows.
- (a) For continuous wave: The value corrected by 2(1) from the indication of the high-frequency power meter
- (b) Burst wave: Calculated average power in a burst from values corrected in the same way as for continuous waves and the transmission time rate

Prüfbericht - Nr.: CN26NHPF 001
Test Report No.:

Seite 17 von 23
Page 17 of 23

f. In the case of using the orthogonal frequency division multiplexing system, when there are multiple subcarrier modulation systems, measure the antenna power at each time and take the largest value as the measured value.

(3) In the case of items using other methods

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

(b) Antenna power shall be as follows.

a. Value of a for continuous wave

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

5.5.6 Test Results

Result **PASS**

For the measurement records, refer to the appendix A.

Prüfbericht - Nr.: **CN26NHPF 001**
Test Report No.:

Seite 18 von 23
Page 18 of 23

5.6 Spurious Emissions for Receiver

5.6.1 Limits of Spurious Emissions for Receiver

Frequencies (MHz)	Limit
Below 1GHz	$\leq 4\text{nW}$ (-54dBm)
Above 1GHz	$\leq 20\text{nW}$ (-47dBm)

5.6.2 Test Setup



5.6.3 Measurement Procedure

- (1) Set the spectrum analyzer as follows when searching.
Sweep frequency width: 30MHz to 5 times the carrier frequency
Resolution bandwidth: 100 kHz for frequencies below 1 GHz, 1 MHz for frequencies above 1 GHz
Video bandwidth: Same as resolution bandwidth
Sweep time: Minimum time for guaranteed measurement accuracy
Sweep mode: Single sweep
Detection mode: positive peak
- (2) Set the spectrum analyzer for secondary emission measurement as follows.
Center frequency: Secondary emission frequency
Sweep frequency width: 0Hz
Resolution bandwidth: 100 kHz for frequencies below 1 GHz, 1 MHz for frequencies above 1 GHz
Video bandwidth: Same as resolution bandwidth
Sweep time: Minimum time for guaranteed measurement accuracy
Sweep mode: Single sweep
Detection mode: sample

5.6.4 Test Results

Result **PASS**

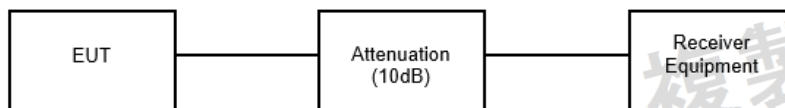
For the measurement records, refer to the appendix A.

5.7 Interference Prevention Function

5.7.1 Limits of Interference Prevention Function

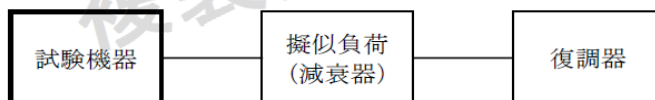
Applicable interference-prevention requirement

5.7.2 Test Setup

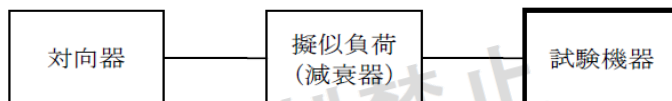


Measurement system diagram

(1) When sending an identification code



(2) When receiving an identification code



5.7.3 Condition of Measuring Instrument

- (1) The demodulator shall be able to demodulate the transmission signal sent by EUT and display the content of the identification code.
- (2) The counterpart device shall be capable of transmitting the same identification code as the transmission signal transmitted by EUT.
- (3) Condition of test equipment
Normal use condition.

5.7.4 Measurement procedure

- (1) When EUT has a function to automatically transmit an identification code
 - a) Transmit the identification code specified in the Equipment Regulations from the test equipment.
 - b) Check the identification code sent by the demodulator.
- (2) When the test equipment has a function to automatically receive the identification code
 - a) Transmit the identification code specified in the Equipment Regulations from the counterpart device.
 - b) Confirm that communication is performed with the EUT using the dedicated jig.
 - c) Transmit a code different from the identification code specified in the Equipment Regulations from the counterpart device.
 - d) Confirm that EUT stops transmission or displays that the identification code is different.

Prüfbericht - Nr.: CN26NHPF 001
Test Report No.:

Seite 20 von 23
Page 20 of 23

5.7.5 How to describe test results

- (1) When EUT has a function to automatically transmit an identification code
If the code stipulated in the equipment rule and the demodulated code are the same, it is described as "passed", and if they are different, it is described as "failed".
- (2) When the test equipment has a function to automatically receive the identification code
If the received code is the code stipulated in the equipment regulations, normal reception is performed, and if the code is different from the code stipulated in the equipment regulations, a message indicating that the code is different is displayed. "No" shall be entered in other case.

5.7.6 Test Results

Result **PASS**

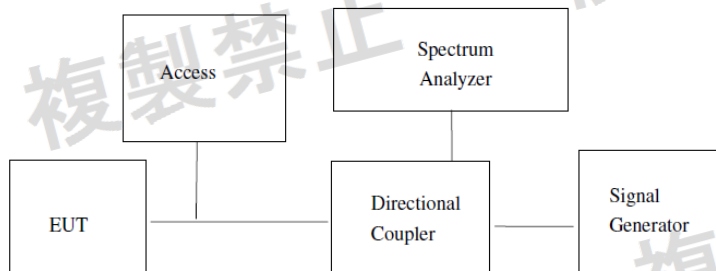
For the measurement records, refer to the appendix A.

Prüfbericht - Nr.: **CN26NHPF 001**
Test Report No.:

Seite 21 von 23
Page 21 of 23

5.8 Carrier Sensing

5.8.1 Test Setup



5.8.2 Measurement procedure

- (a) Link EUT and Access Point to Directional Coupler input port.
 - (b) Link Signal Generator and Spectrum Analyzer to test port and output port in the Directional Coupler separately.
 - (c) A positive Peak Detector function in Spectrum Analyzer must be used.
 - (d) Set the Span to Zero.
- Press the Signal Generator on and it will output the Carrier Signal. When the Link breaks off, wait a minute and press the Signal Generator off. After a while, reset the Link and done the test.

Signal Generator Power Level (dBm) = $22.79 + G - 20\log(F)$
G: Antenna Gain
F: operation frequency

5.8.3 Test Results

Result **PASS**

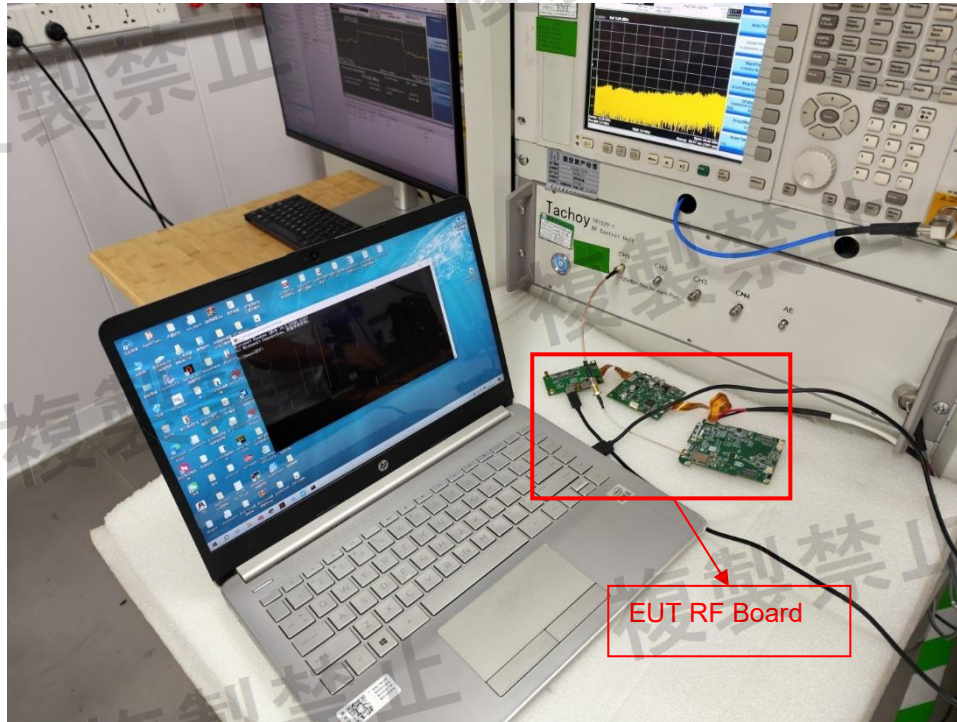
For the measurement records, refer to the appendix A.

Prüfbericht - Nr.: CN26NHPF 001
Test Report No.:

Seite 22 von 23
Page 22 of 23

6 Photographs of the Test Set-Up

Photograph 1: Set-up for Radio Spectrum Testing



Prüfbericht - Nr.: CN26NHPF 001
Test Report No.:

Seite 23 von 23
Page 23 of 23

7 List of Tables

Table 1: List of Test and Measurement Equipment.....	6
Table 2: Measurement Uncertainty.....	6
Table 3: Technical Specification of EUT.....	7
Table 4: RF Channel and Frequency.....	8
Table 5: Test Conditions.....	9
Table 6: List of Accessories and Auxiliary Equipment.....	9

8 List of Photographs

Photograph 1: Set-up for Radio Spectrum Testing	22
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Appendix A: Test Results of WI-FI 2.4 GHz Band

APPENDIX A.1: TEST RESULTS OF FREQUENCY TOLERANCE	2
Test Result	2
APPENDIX A.2: TEST RESULTS OF ANTENNA POWER	3
Test Result	3
APPENDIX A.3: TEST RESULTS OF OCCUPIED CHANNEL BANDWIDTH (99%)	5
Test Result	5
Test Graphs	6
APPENDIX A.4: TEST RESULTS OF SPREAD BANDWIDTH (90%)	18
Test Result	18
Test Graphs	19
APPENDIX A.5: TEST RESULTS OF SPURIOUS EMISSIONS FOR TRANSMITTER	31
Test Result	31
Test Graphs	36
APPENDIX A.6: TEST RESULTS OF SPURIOUS EMISSIONS FOR RECEIVER	48
Test Result	48
Test Graphs	50
APPENDIX A.7: TEST RESULTS OF CARRIER SENSING	62
Test Result	62
APPENDIX A.8: TEST RESULTS OF INTERFERENCE PREVENTION FUNCTION	63
Test Result	63

**Appendix A.1: Test Results of Frequency Tolerance***Test Result*

Condition	Antenna	Modulation	Frequency (MHz)	Test Frequency (MHz)	Frequency Tolerance (ppm)	Limit (ppm)	Result
NTNV	ANT1	un-modulation	2412.000000	2412.001	0.415	±50	Pass
NTNV	ANT2	un-modulation	2412.000000	2412.000	0.000	±50	Pass
NTNV	ANT1	un-modulation	2442.000000	2441.998	-0.819	±50	Pass
NTNV	ANT2	un-modulation	2442.000000	2441.998	-0.819	±50	Pass
NTNV	ANT1	un-modulation	2472.000000	2471.998	-0.809	±50	Pass
NTNV	ANT2	un-modulation	2472.000000	2471.997	-1.214	±50	Pass

Appendix A.2: Test Results of Antenna Power

Test Result

Condition	Antenna	Mode	Frequency	Measured Power (dBm/MHz)	Antenna Power (mW/MHz)	Rated Power (mW/MHz)	Power Limit (mW/MHz)	Power Tolerance (%)	Tolerance Limit (%)	Result
NVNT	ANT1	802.11b	2412.00	0.88	1.22	10.00	10.00	-86.76	+20	Pass
NVNT	ANT2	802.11b	2412.00	-0.17	0.96	10.00	10.00	-87.53	+20	Pass
NVNT	ANT1	802.11b	2442.00	-0.39	0.91	10.00	10.00	-87.67	+20	Pass
NVNT	ANT2	802.11b	2442.00	-0.79	0.83	10.00	10.00	-87.89	+20	Pass
NVNT	ANT1	802.11b	2472.00	0.99	1.26	10.00	10.00	-86.63	+20	Pass
NVNT	ANT2	802.11b	2472.00	-0.14	0.97	10.00	10.00	-87.50	+20	Pass
NVNT	ANT1	802.11g	2412.00	2.13	1.63	10.00	10.00	-85.45	+20	Pass
NVNT	ANT2	802.11g	2412.00	2.29	1.69	10.00	10.00	-85.24	+20	Pass
NVNT	ANT1	802.11g	2442.00	1.23	1.33	10.00	10.00	-86.42	+20	Pass
NVNT	ANT2	802.11g	2442.00	1.40	1.38	10.00	10.00	-86.26	+20	Pass
NVNT	ANT1	802.11g	2472.00	0.30	1.07	10.00	10.00	-87.21	+20	Pass
NVNT	ANT2	802.11g	2472.00	-0.41	0.91	10.00	10.00	-87.67	+20	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	2.46	1.76	10.00	10.00	-85.00	+20	Pass
NVNT	ANT2	802.11n(HT20)	2412.00	2.07	1.61	10.00	10.00	-85.51	+20	Pass
NVNT	MIMO_TX	802.11n(HT20)	2412.00	5.28	3.37	10.00	10.00	-78.27	+20	Pass
NVNT	ANT1	802.11n(HT20)	2442.00	1.61	1.45	10.00	10.00	-86.04	+20	Pass
NVNT	ANT2	802.11n(HT20)	2442.00	1.35	1.36	10.00	10.00	-86.32	+20	Pass
NVNT	MIMO_TX	802.11n(HT20)	2442.00	4.49	2.81	10.00	10.00	-80.90	+20	Pass
NVNT	ANT1	802.11n(HT20)	2472.00	0.51	1.13	10.00	10.00	-87.03	+20	Pass
NVNT	ANT2	802.11n(HT20)	2472.00	0.38	1.09	10.00	10.00	-87.15	+20	Pass
NVNT	MIMO_TX	802.11n(HT20)	2472.00	3.46	2.22	10.00	10.00	-83.33	+20	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	0.39	1.09	5.00	5.00	-74.29	+20	Pass
NVNT	ANT2	802.11n(HT40)	2422.00	-1.55	0.70	5.00	5.00	-76.50	+20	Pass
NVNT	MIMO_TX	802.11n(HT40)	2422.00	2.54	1.79	5.00	5.00	-69.80	+20	Pass
NVNT	ANT1	802.11n(HT40)	2442.00	-0.65	0.86	5.00	5.00	-75.62	+20	Pass
NVNT	ANT2	802.11n(HT40)	2442.00	-1.79	0.66	5.00	5.00	-76.72	+20	Pass
NVNT	MIMO_TX	802.11n(HT40)	2442.00	1.83	1.52	5.00	5.00	-71.62	+20	Pass
NVNT	ANT1	802.11n(HT40)	2462.00	-1.14	0.77	5.00	5.00	-76.12	+20	Pass
NVNT	ANT2	802.11n(HT40)	2462.00	-2.31	0.59	5.00	5.00	-86.76	+20	Pass
NVNT	MIMO_TX	802.11n(HT40)	2462.00	1.32	1.36	5.00	5.00	-87.53	+20	Pass

Condition	Antenna	Mode	Frequency	Measured Power (dBm/MHz)	Antenna Gain(dBi)	EIRP (dBm/MHz)	EIRP Limit (dBm/MHz)	Result
NVNT	ANT1	802.11b	2412.00	0.88	4.15	5.03	12.14	Pass
NVNT	ANT2	802.11b	2412.00	-0.17	3.23	3.06	12.14	Pass
NVNT	ANT1	802.11b	2442.00	-0.39	4.15	3.76	12.14	Pass
NVNT	ANT2	802.11b	2442.00	-0.79	3.23	2.44	12.14	Pass
NVNT	ANT1	802.11b	2472.00	0.99	4.15	5.14	12.14	Pass
NVNT	ANT2	802.11b	2472.00	-0.14	3.23	3.09	12.14	Pass
NVNT	ANT1	802.11g	2412.00	2.13	4.15	6.28	12.14	Pass
NVNT	ANT2	802.11g	2412.00	2.29	3.23	5.52	12.14	Pass
NVNT	ANT1	802.11g	2442.00	1.23	4.15	5.38	12.14	Pass
NVNT	ANT2	802.11g	2442.00	1.4	3.23	4.63	12.14	Pass
NVNT	ANT1	802.11g	2472.00	0.3	4.15	4.45	12.14	Pass
NVNT	ANT2	802.11g	2472.00	-0.41	3.23	2.82	12.14	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	2.46	4.15	6.61	12.14	Pass
NVNT	ANT2	802.11n(HT20)	2412.00	2.07	3.23	5.30	12.14	Pass
NVNT	MIMO_TX	802.11n(HT20)	2412.00	5.28	4.15	9.43	12.14	Pass
NVNT	ANT1	802.11n(HT20)	2442.00	1.61	4.15	5.76	12.14	Pass
NVNT	ANT2	802.11n(HT20)	2442.00	1.35	3.23	4.58	12.14	Pass
NVNT	MIMO_TX	802.11n(HT20)	2442.00	4.49	4.15	8.64	12.14	Pass
NVNT	ANT1	802.11n(HT20)	2472.00	0.51	4.15	4.66	12.14	Pass
NVNT	ANT2	802.11n(HT20)	2472.00	0.38	3.23	3.61	12.14	Pass
NVNT	MIMO_TX	802.11n(HT20)	2472.00	3.46	4.15	7.61	12.14	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	0.39	4.15	4.54	9.13	Pass
NVNT	ANT2	802.11n(HT40)	2422.00	-1.55	3.23	1.68	9.13	Pass
NVNT	MIMO_TX	802.11n(HT40)	2422.00	2.54	4.15	6.69	9.13	Pass
NVNT	ANT1	802.11n(HT40)	2442.00	-0.65	4.15	3.50	9.13	Pass
NVNT	ANT2	802.11n(HT40)	2442.00	-1.79	3.23	1.44	9.13	Pass
NVNT	MIMO_TX	802.11n(HT40)	2442.00	1.83	4.15	5.98	9.13	Pass
NVNT	ANT1	802.11n(HT40)	2462.00	-1.14	4.15	3.01	9.13	Pass
NVNT	ANT2	802.11n(HT40)	2462.00	-2.31	3.23	0.92	9.13	Pass
NVNT	MIMO_TX	802.11n(HT40)	2462.00	1.32	4.15	5.47	9.13	Pass

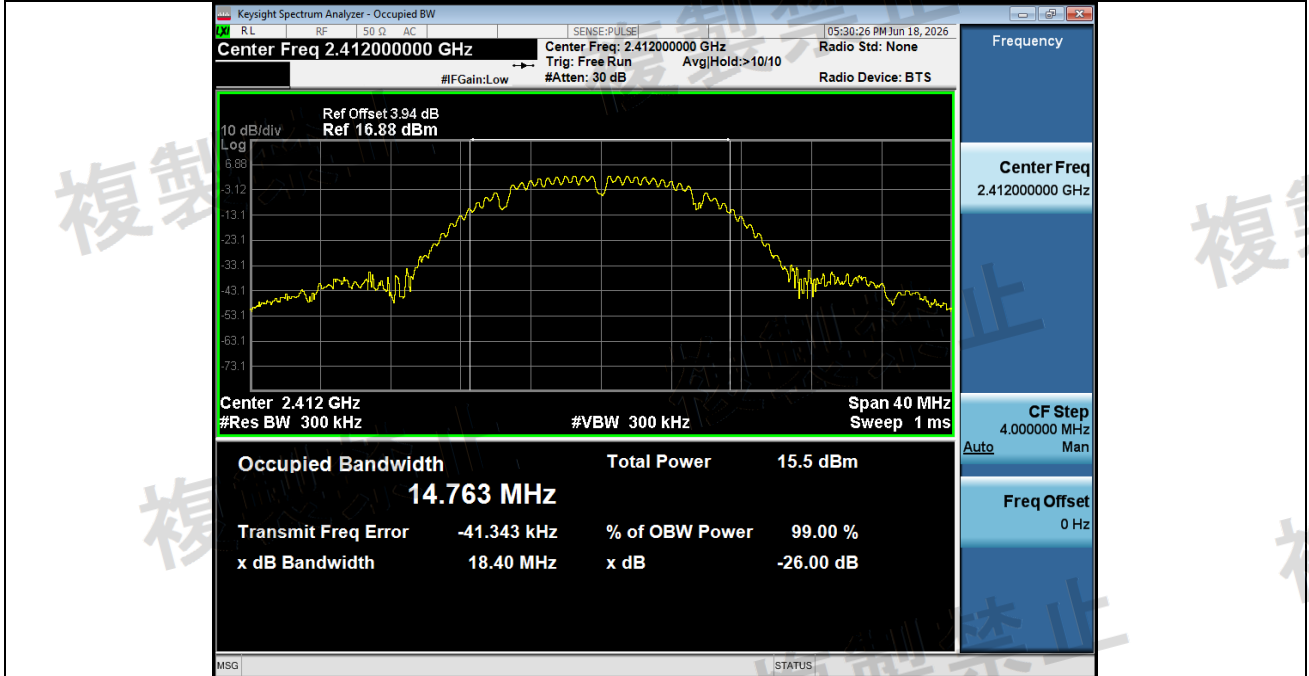
Appendix A.3: Test Results of Occupied Channel Bandwidth (99%)

Test Result

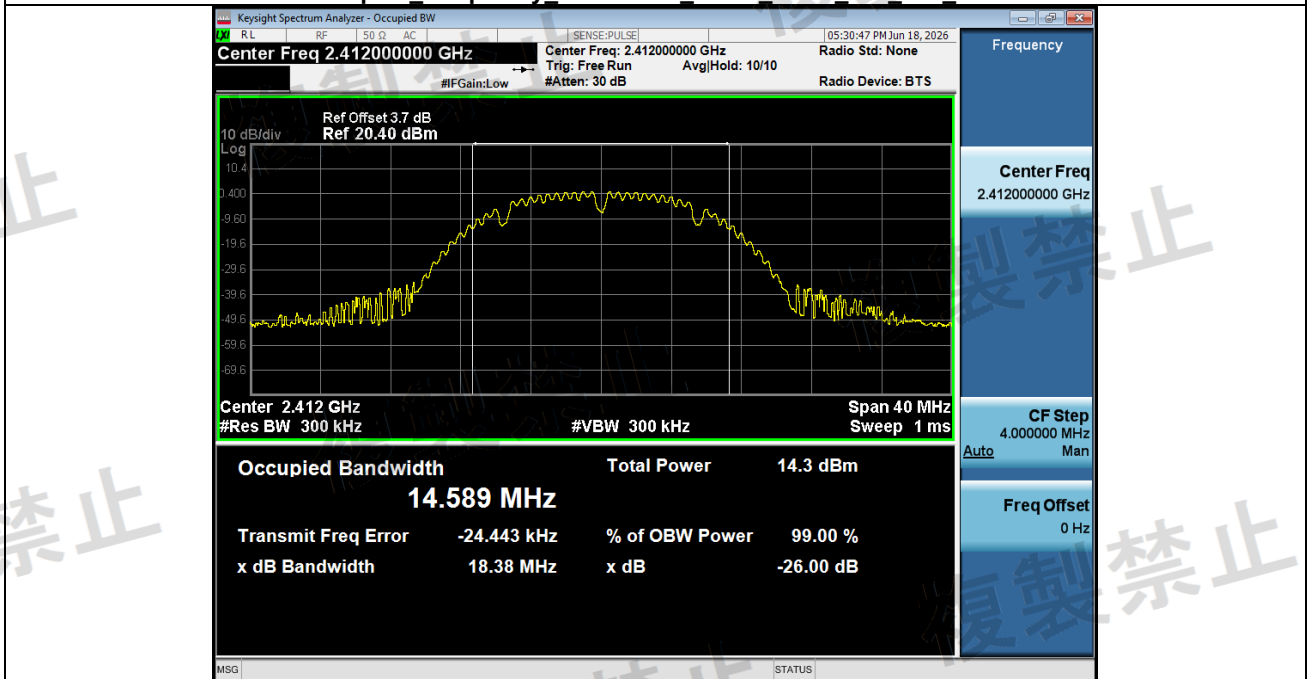
Condition	Antenna	Mode	Frequency (MHz)	Occupied Bandwidth (MHz)	Limit (MHz)	Result
NVNT	ANT1	802.11b	2412.00	14.76	<26	Pass
NVNT	ANT2	802.11b	2412.00	14.59	<26	Pass
NVNT	ANT1	802.11b	2442.00	14.76	<26	Pass
NVNT	ANT2	802.11b	2442.00	14.59	<26	Pass
NVNT	ANT1	802.11b	2472.00	14.80	<26	Pass
NVNT	ANT2	802.11b	2472.00	14.65	<26	Pass
NVNT	ANT1	802.11g	2412.00	16.65	<26	Pass
NVNT	ANT2	802.11g	2412.00	16.53	<26	Pass
NVNT	ANT1	802.11g	2442.00	16.63	<26	Pass
NVNT	ANT2	802.11g	2442.00	16.49	<26	Pass
NVNT	ANT1	802.11g	2472.00	16.45	<26	Pass
NVNT	ANT2	802.11g	2472.00	16.44	<26	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	16.69	<26	Pass
NVNT	ANT2	802.11n(HT20)	2412.00	16.55	<26	Pass
NVNT	ANT1	802.11n(HT20)	2442.00	16.63	<26	Pass
NVNT	ANT2	802.11n(HT20)	2442.00	16.54	<26	Pass
NVNT	ANT1	802.11n(HT20)	2472.00	16.40	<26	Pass
NVNT	ANT2	802.11n(HT20)	2472.00	16.43	<26	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	36.14	26~40	Pass
NVNT	ANT2	802.11n(HT40)	2422.00	36.09	26~40	Pass
NVNT	ANT1	802.11n(HT40)	2442.00	36.08	26~40	Pass
NVNT	ANT2	802.11n(HT40)	2442.00	36.05	26~40	Pass
NVNT	ANT1	802.11n(HT40)	2462.00	36.11	26~40	Pass
NVNT	ANT2	802.11n(HT40)	2462.00	36.11	26~40	Pass

Test Graphs

Occupied Frequency Bandwidth NVNT ANT1 802 11b 2412

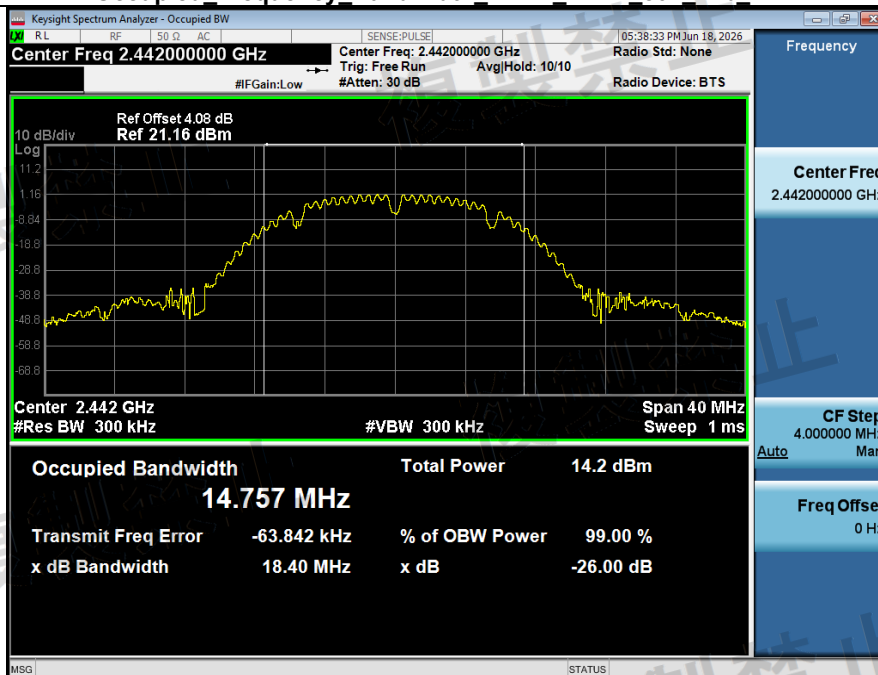


Occupied Frequency Bandwidth NVNT ANT2 802 11b 2412

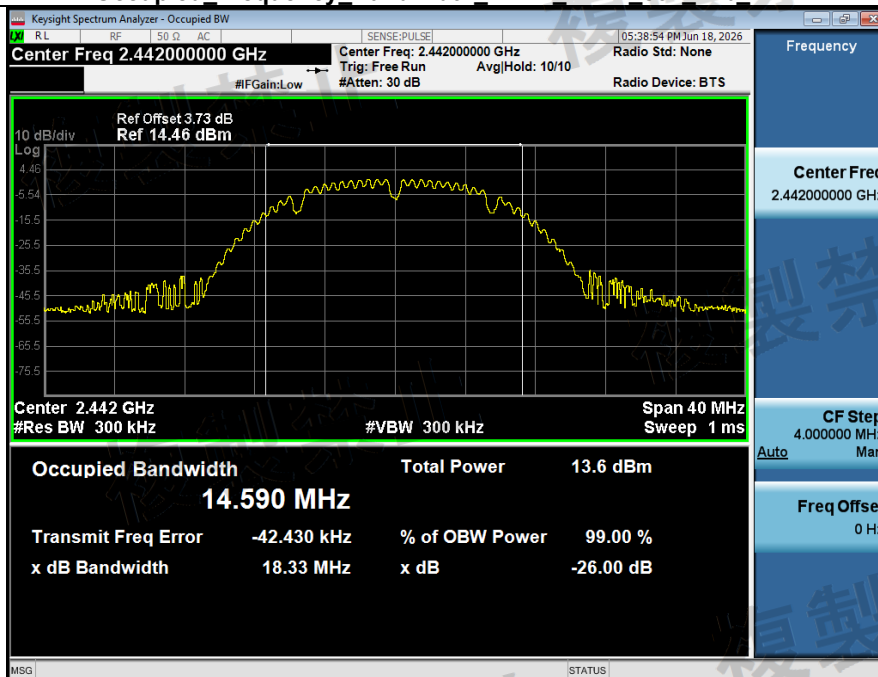




Occupied Frequency Bandwidth NVNT ANT1 802 11b 2442

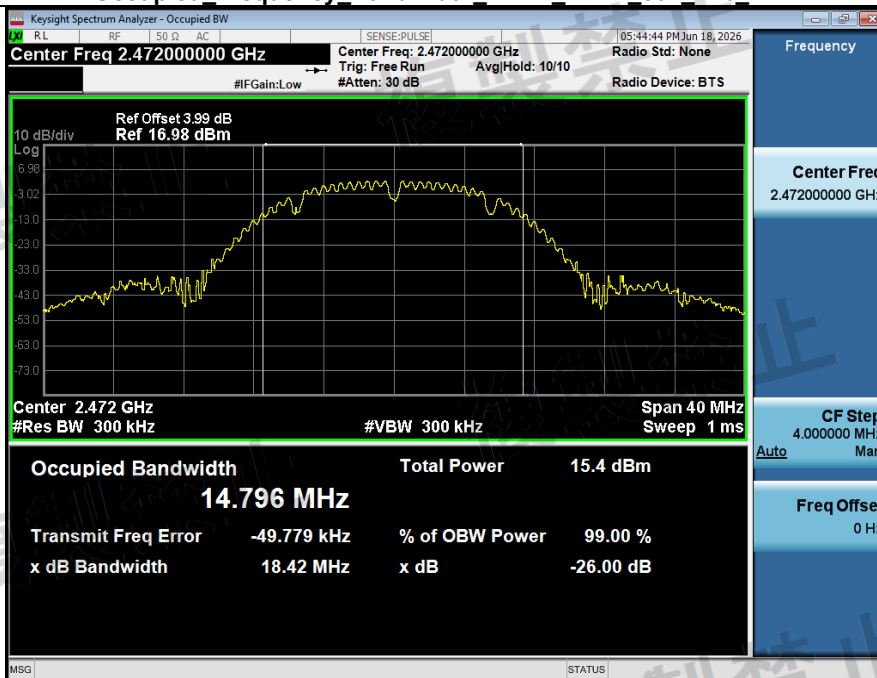


Occupied Frequency Bandwidth NVNT ANT2 802 11b 2442

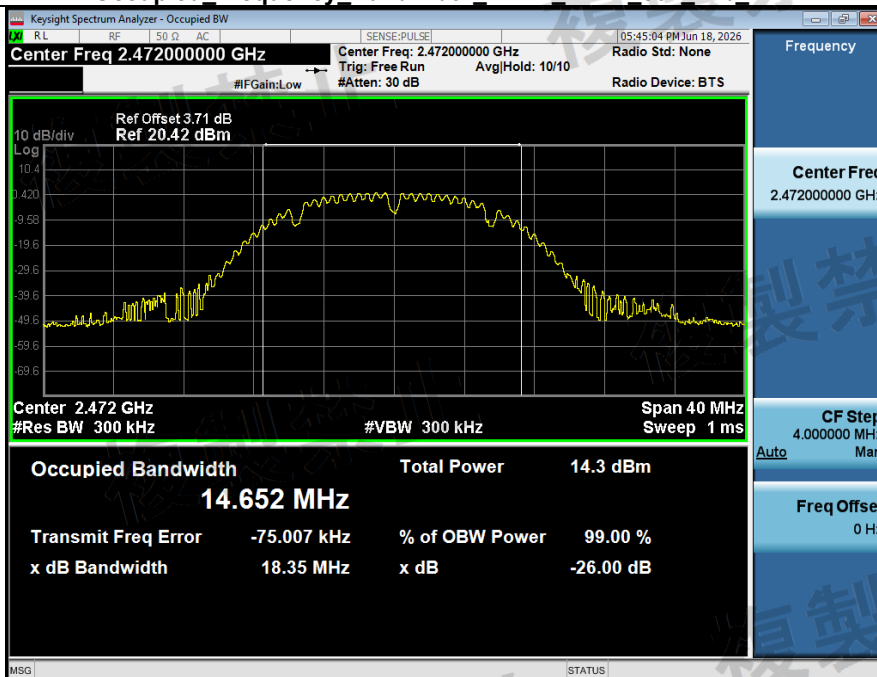




Occupied Frequency Bandwidth NVNT ANT1 802 11b 2472

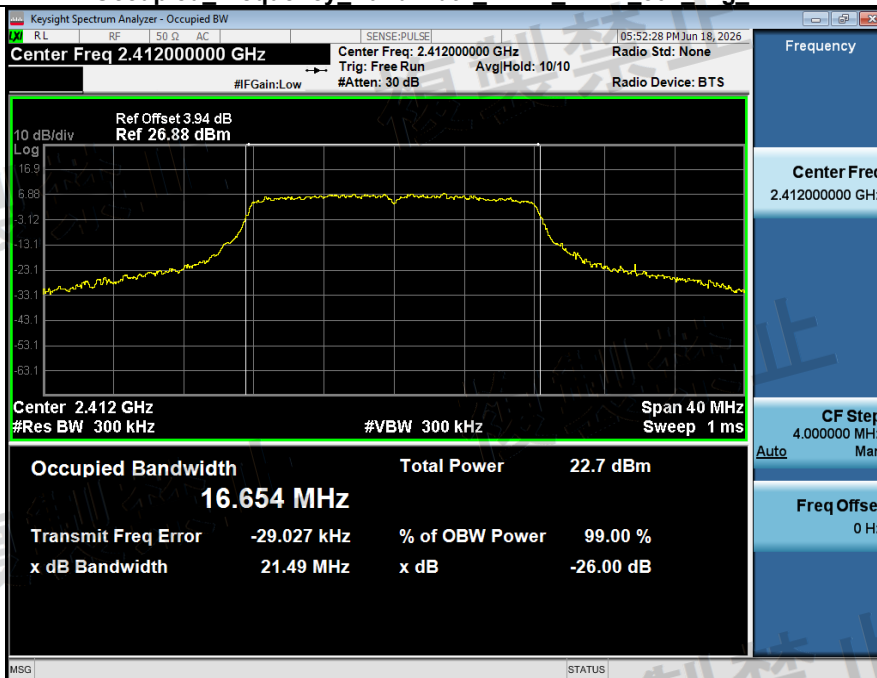


Occupied Frequency Bandwidth NVNT ANT2 802 11b 2472

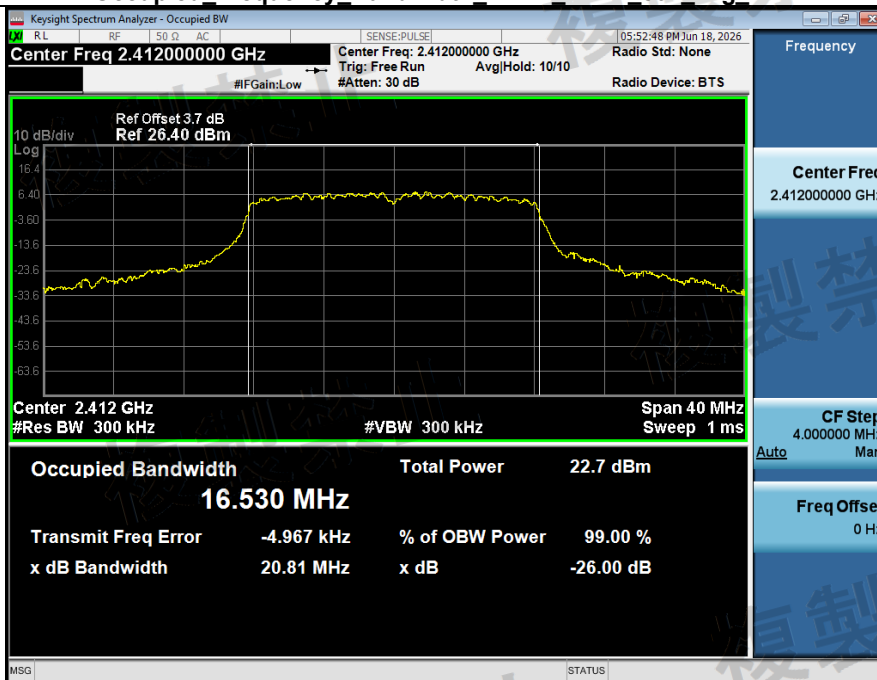




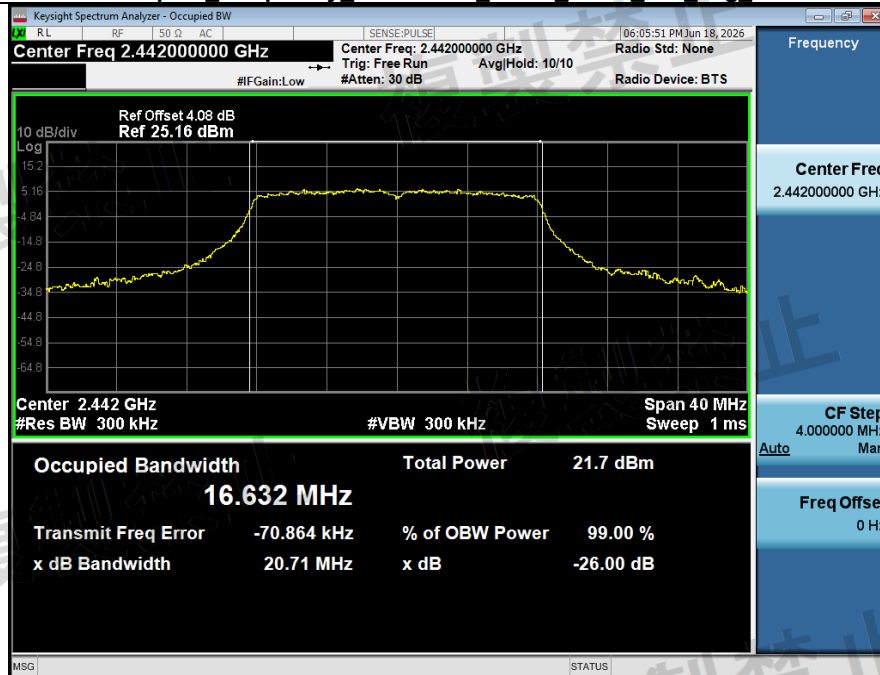
Occupied Frequency Bandwidth NVNT ANT1 802 11g 2412



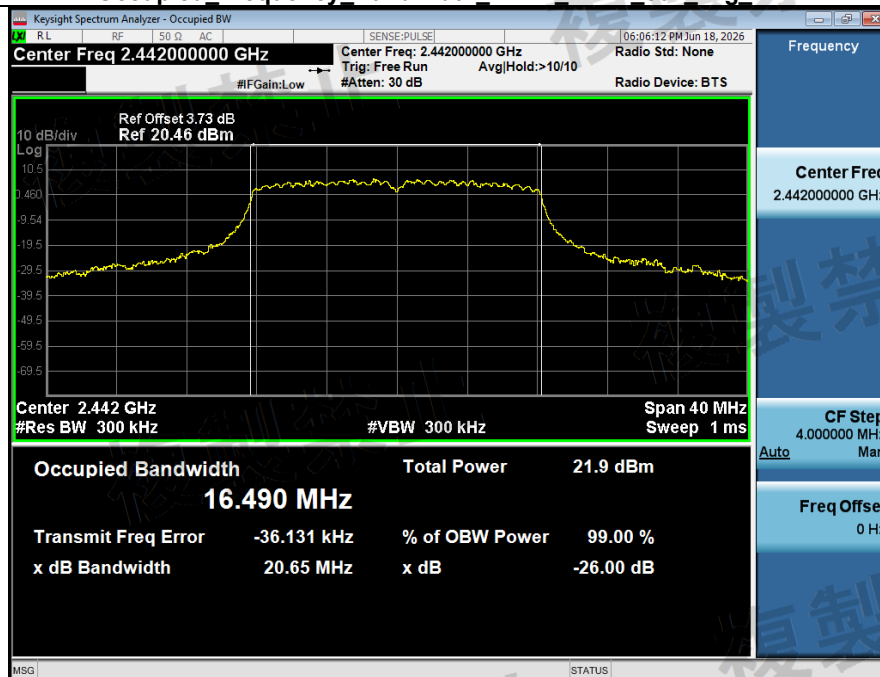
Occupied Frequency Bandwidth NVNT ANT2 802 11g 2412



Occupied Frequency Bandwidth NVNT ANT1 802 11g 2442

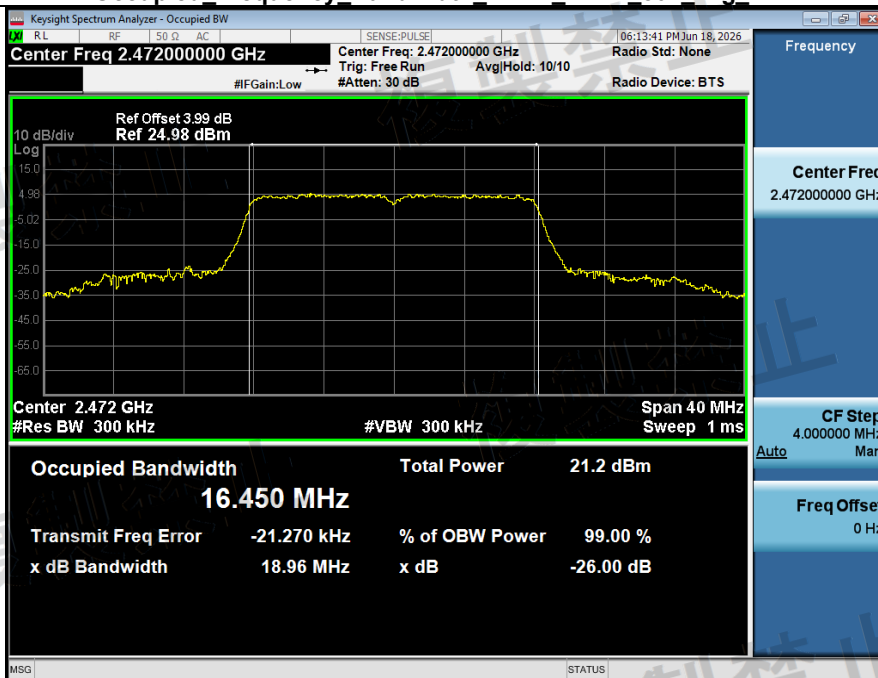


Occupied Frequency Bandwidth NVNT ANT2 802 11g 2442

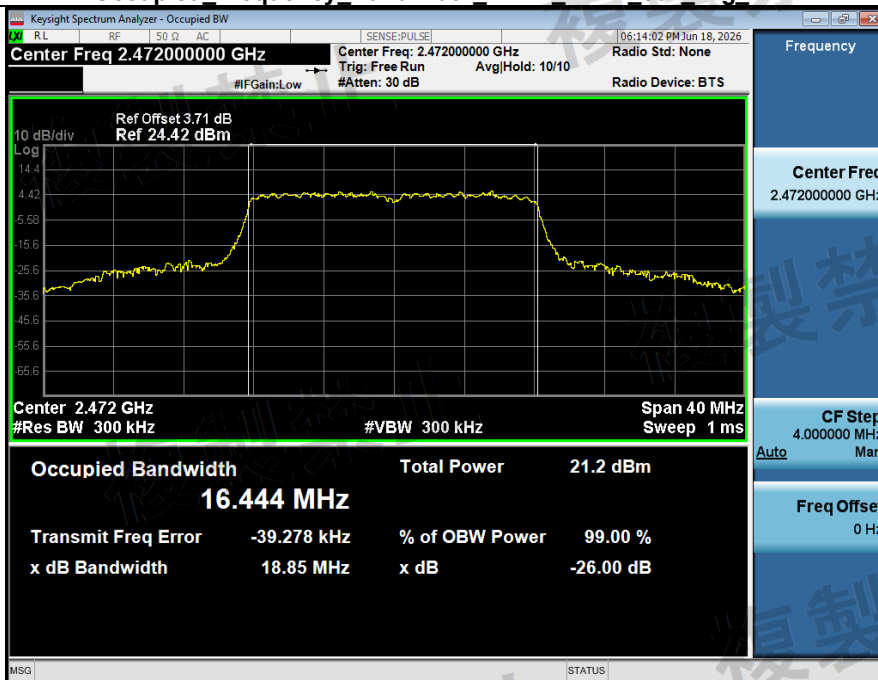




Occupied Frequency Bandwidth NVNT ANT1 802 11g 2472

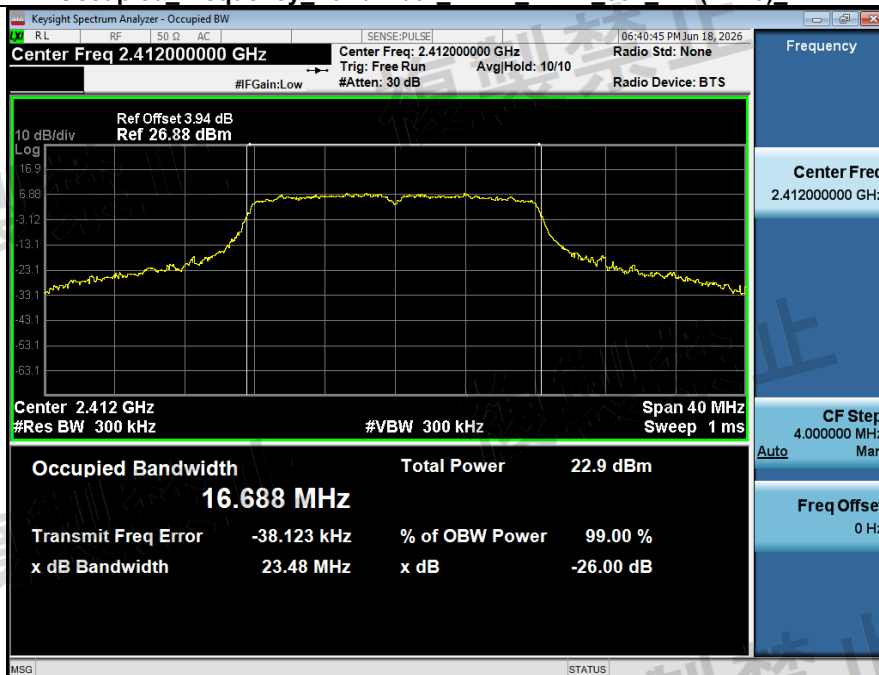


Occupied Frequency Bandwidth NVNT ANT2 802 11g 2472

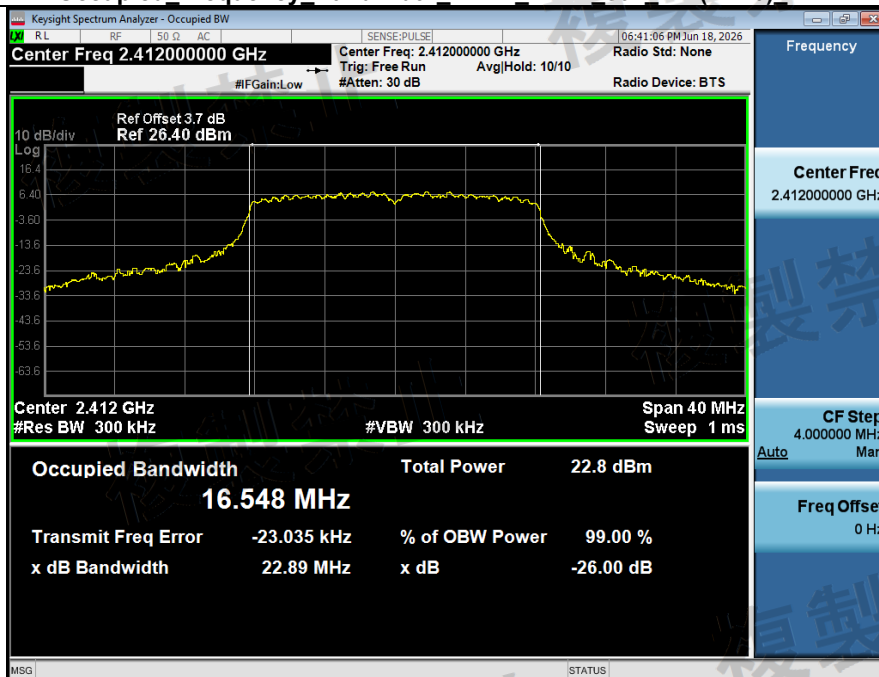




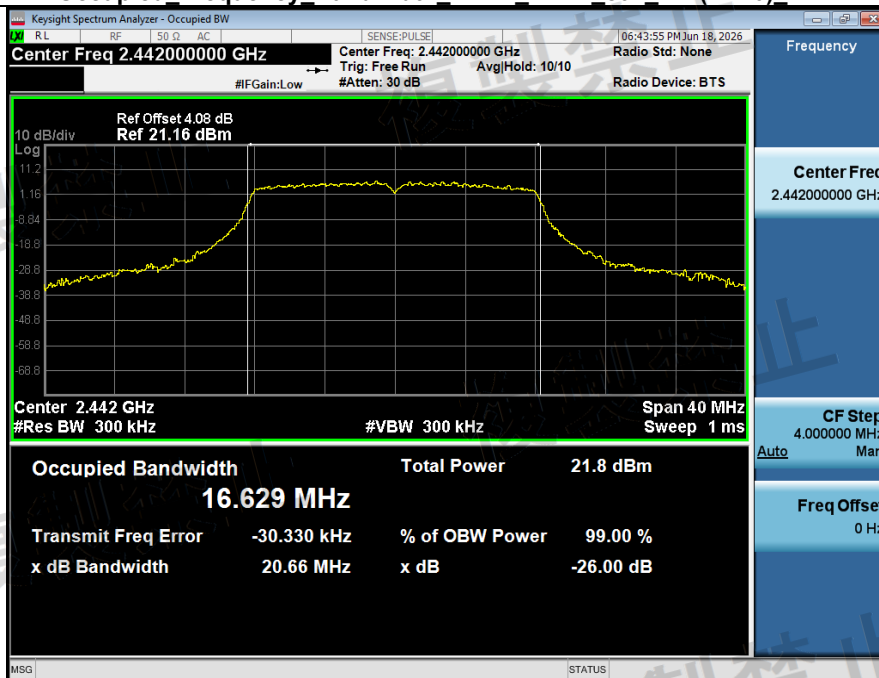
Occupied Frequency Bandwidth NVNT_ANT1_802_11n(HT20)_2412



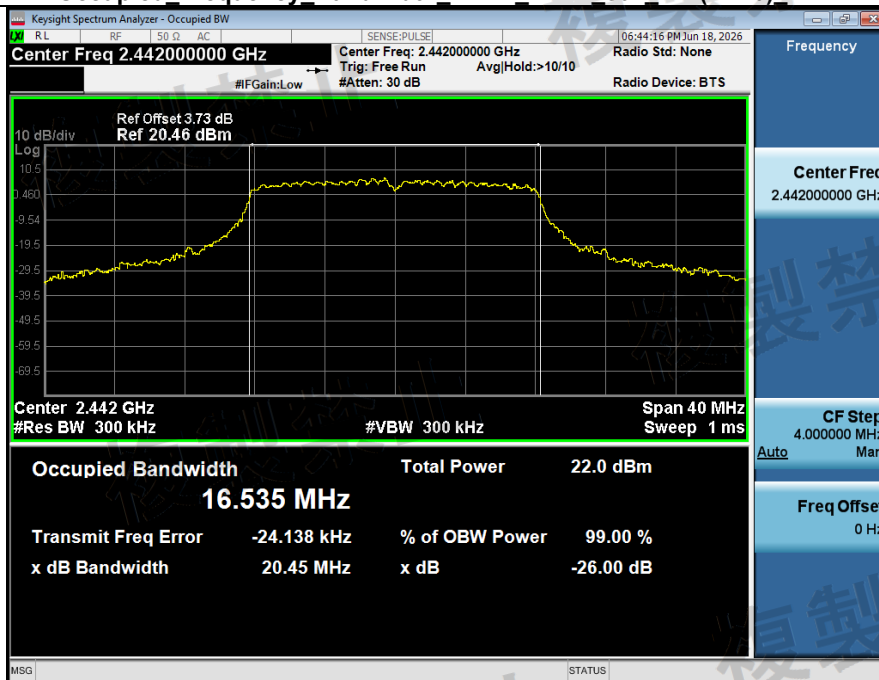
Occupied Frequency Bandwidth NVNT_ANT2_802_11n(HT20)_2412



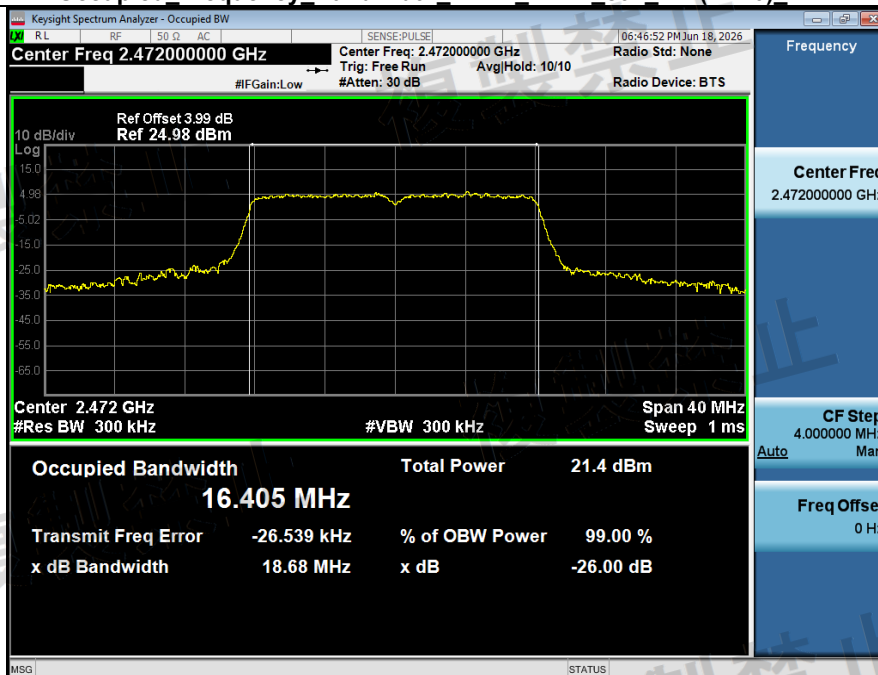
Occupied Frequency Bandwidth NVNT_ANT1_802_11n(HT20)_2442



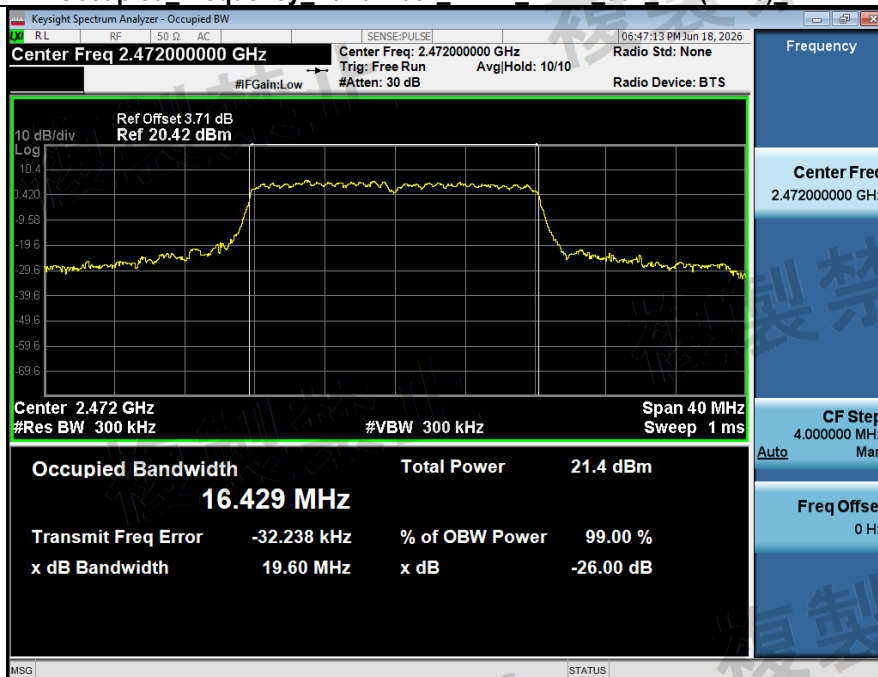
Occupied Frequency Bandwidth NVNT_ANT2_802_11n(HT20)_2442



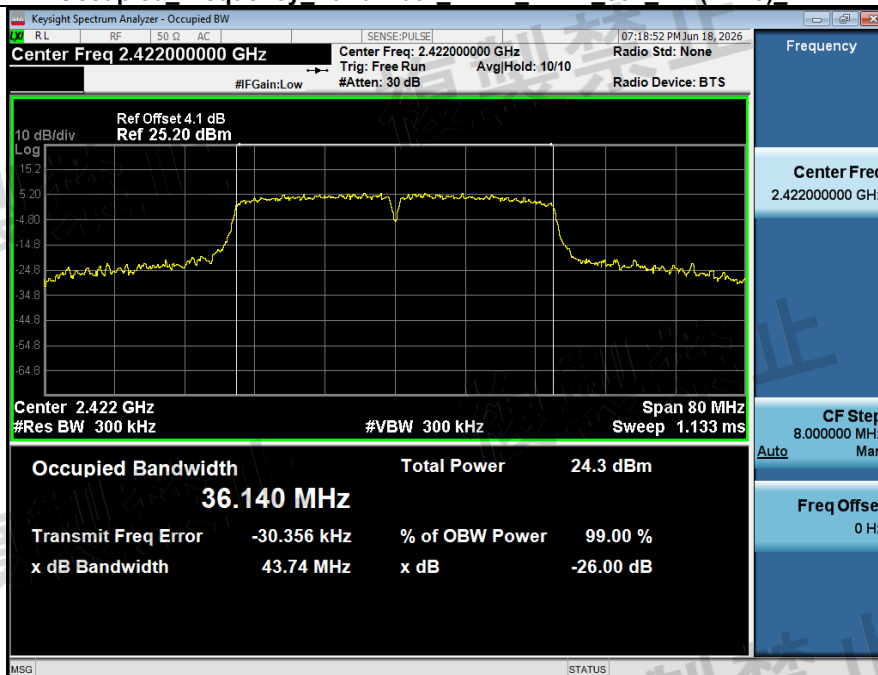
Occupied Frequency Bandwidth NVNT_ANT1_802_11n(HT20)_2472



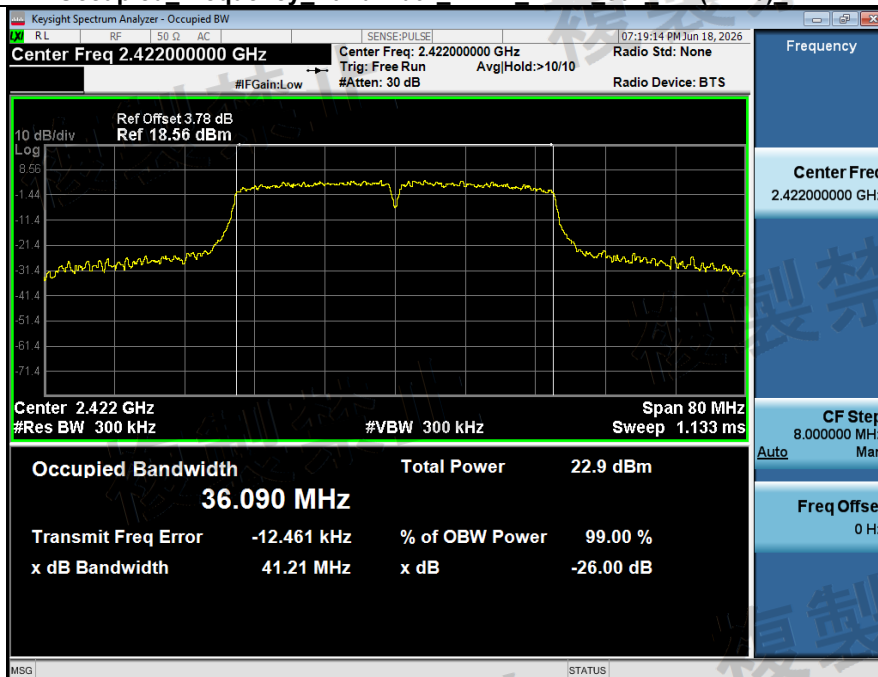
Occupied Frequency Bandwidth NVNT_ANT2_802_11n(HT20)_2472



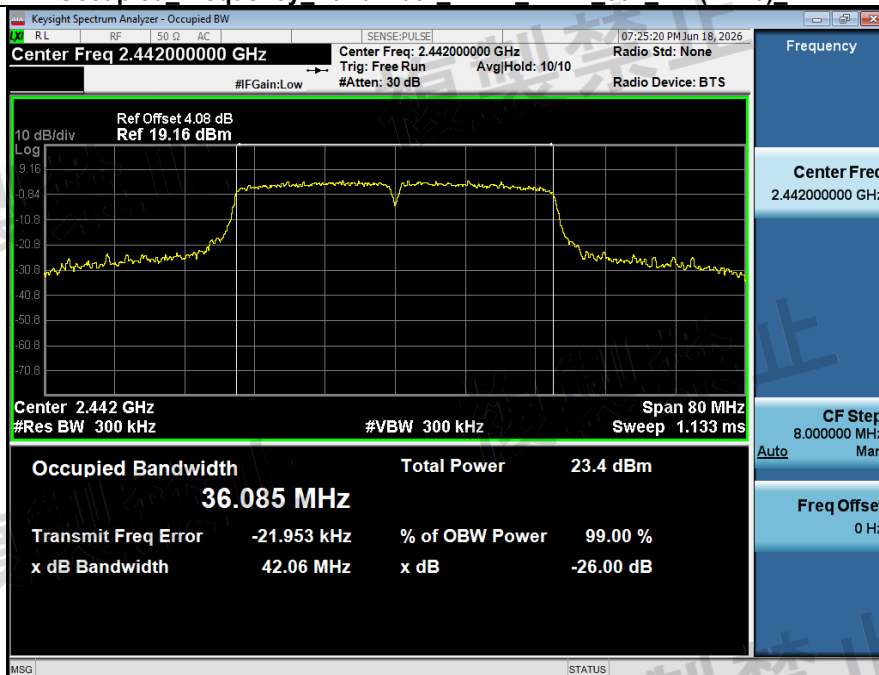
Occupied Frequency Bandwidth NVNT_ANT1_802_11n(HT40)_2422



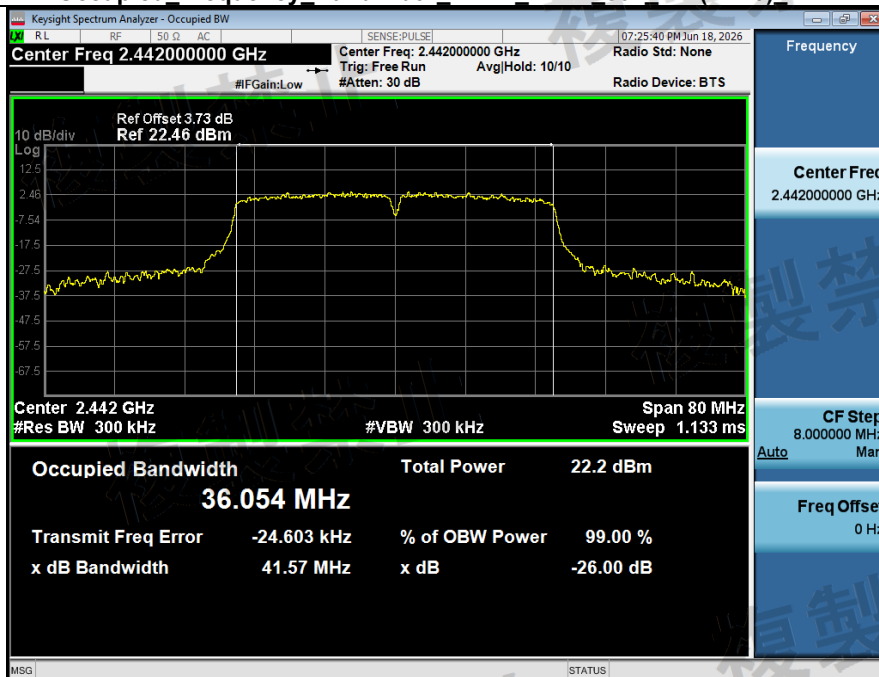
Occupied Frequency Bandwidth NVNT_ANT2_802_11n(HT40)_2422



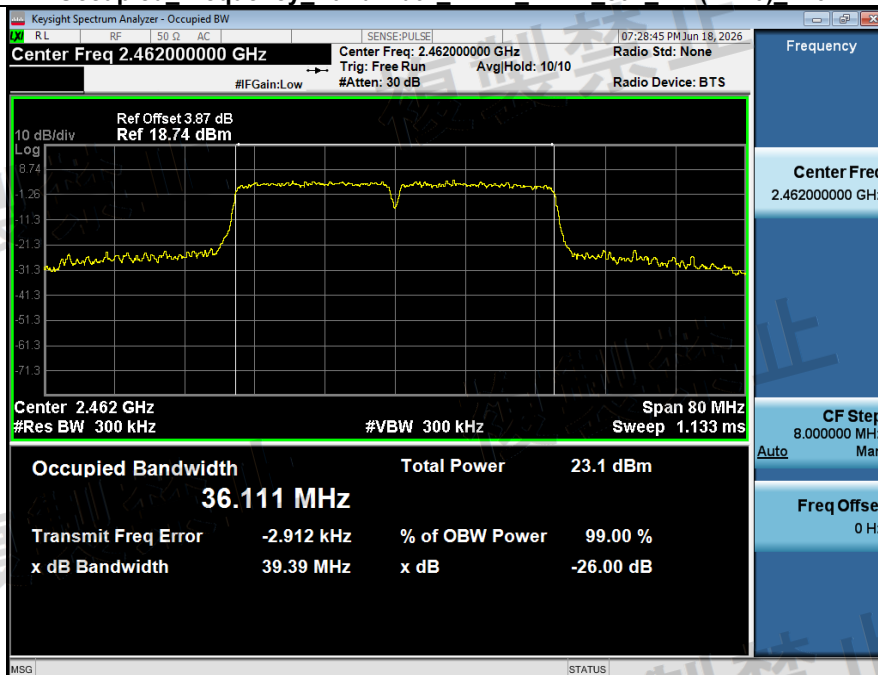
Occupied Frequency Bandwidth NVNT_ANT1_802_11n(HT40)_2442



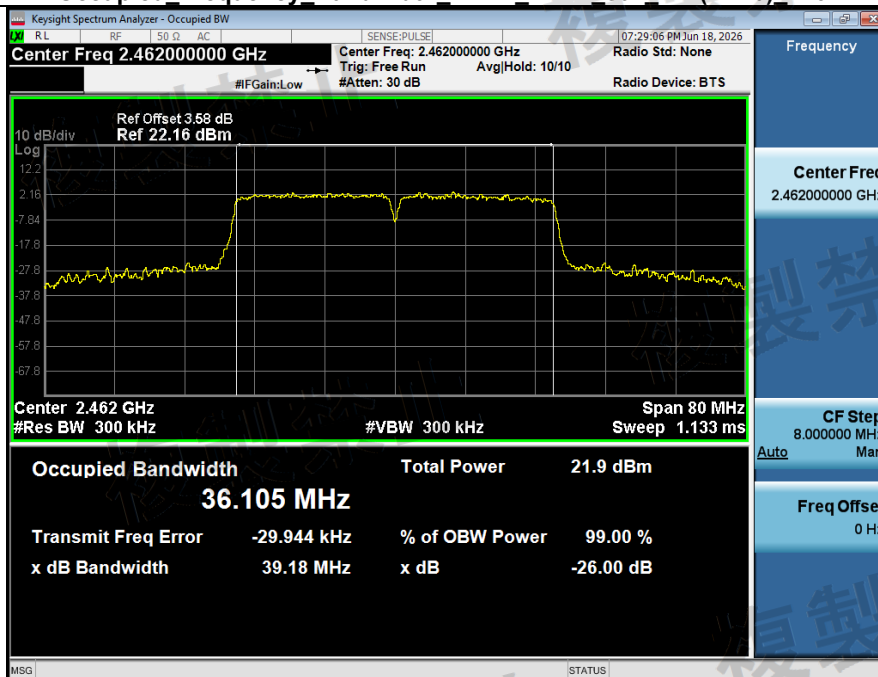
Occupied Frequency Bandwidth NVNT_ANT2_802_11n(HT40)_2442



Occupied Frequency Bandwidth NVNT_ANT1_802_11n(HT40)_2462



Occupied Frequency Bandwidth NVNT_ANT2_802_11n(HT40)_2462





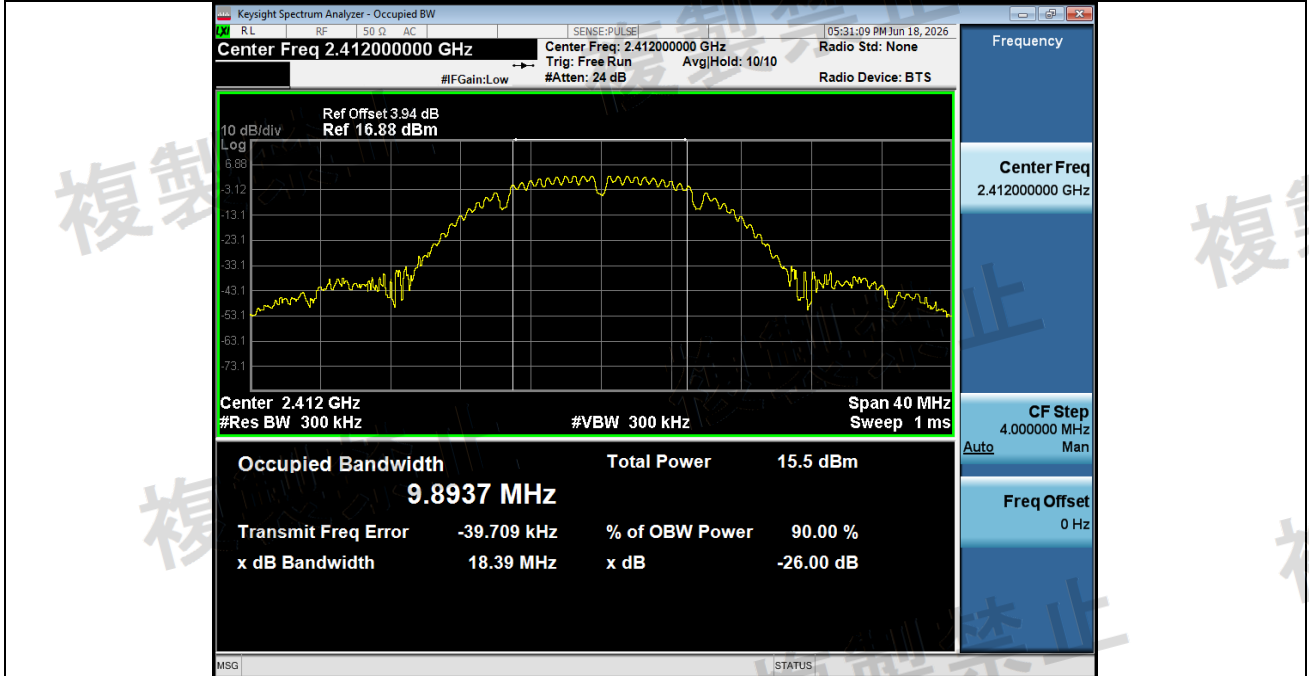
Appendix A.4: Test Results of Spread Bandwidth (90%)

Test Result

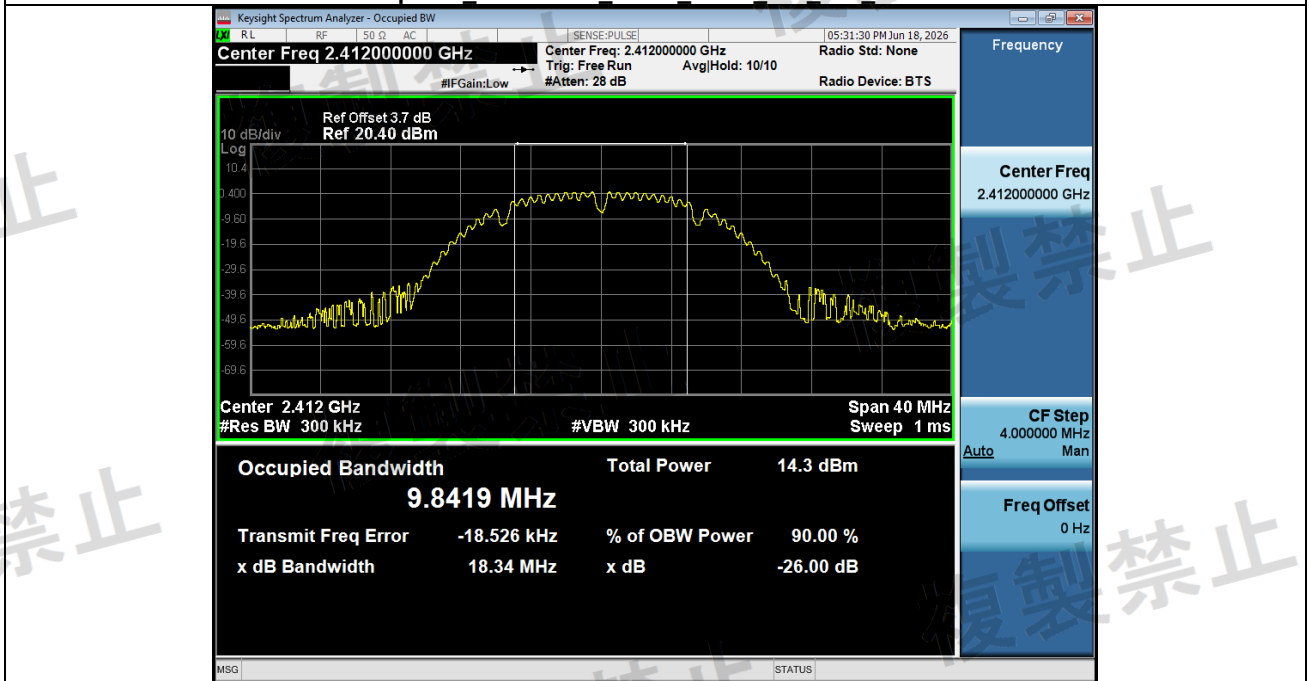
Condition	Antenna	Mode	Frequency (MHz)	Spread Bandwidth (MHz)
NVNT	ANT1	802.11b	2412.00	9.89
NVNT	ANT2	802.11b	2412.00	9.84
NVNT	ANT1	802.11b	2442.00	9.89
NVNT	ANT2	802.11b	2442.00	9.85
NVNT	ANT1	802.11b	2472.00	9.91
NVNT	ANT2	802.11b	2472.00	9.86
NVNT	ANT1	802.11g	2412.00	14.32
NVNT	ANT2	802.11g	2412.00	14.22
NVNT	ANT1	802.11g	2442.00	14.36
NVNT	ANT2	802.11g	2442.00	14.20
NVNT	ANT1	802.11g	2472.00	14.53
NVNT	ANT2	802.11g	2472.00	14.49
NVNT	ANT1	802.11n(HT20)	2412.00	14.28
NVNT	ANT2	802.11n(HT20)	2412.00	14.19
NVNT	ANT1	802.11n(HT20)	2442.00	14.32
NVNT	ANT2	802.11n(HT20)	2442.00	14.29
NVNT	ANT1	802.11n(HT20)	2472.00	14.49
NVNT	ANT2	802.11n(HT20)	2472.00	14.55
NVNT	ANT1	802.11n(HT40)	2422.00	31.18
NVNT	ANT2	802.11n(HT40)	2422.00	31.20
NVNT	ANT1	802.11n(HT40)	2442.00	31.50
NVNT	ANT2	802.11n(HT40)	2442.00	31.35
NVNT	ANT1	802.11n(HT40)	2462.00	32.08
NVNT	ANT2	802.11n(HT40)	2462.00	32.05

Test Graphs

Spread Bandwidth NVNT ANT1 802 11b 2412

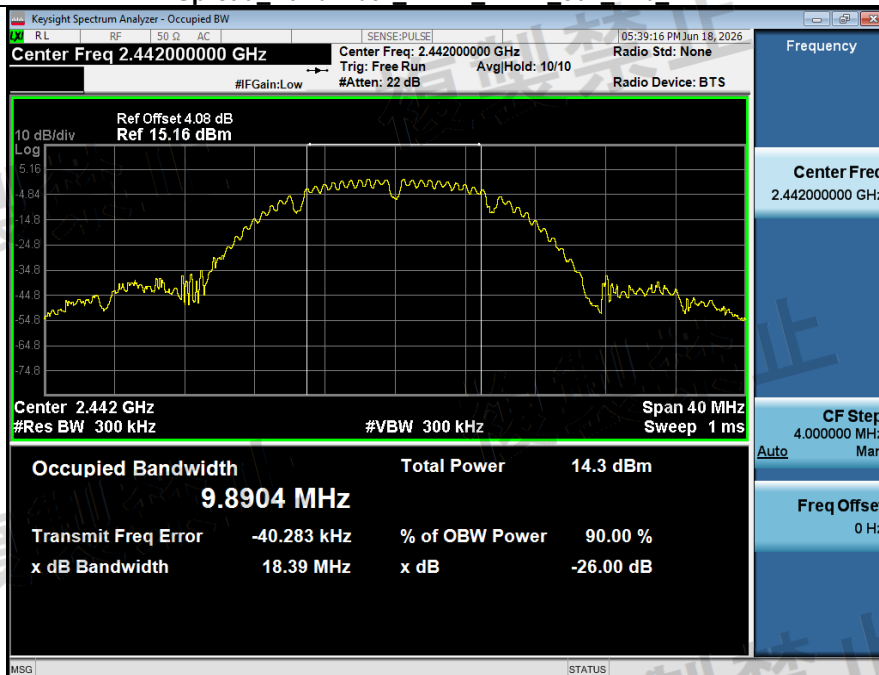


Spread Bandwidth NVNT ANT2 802 11b 2412

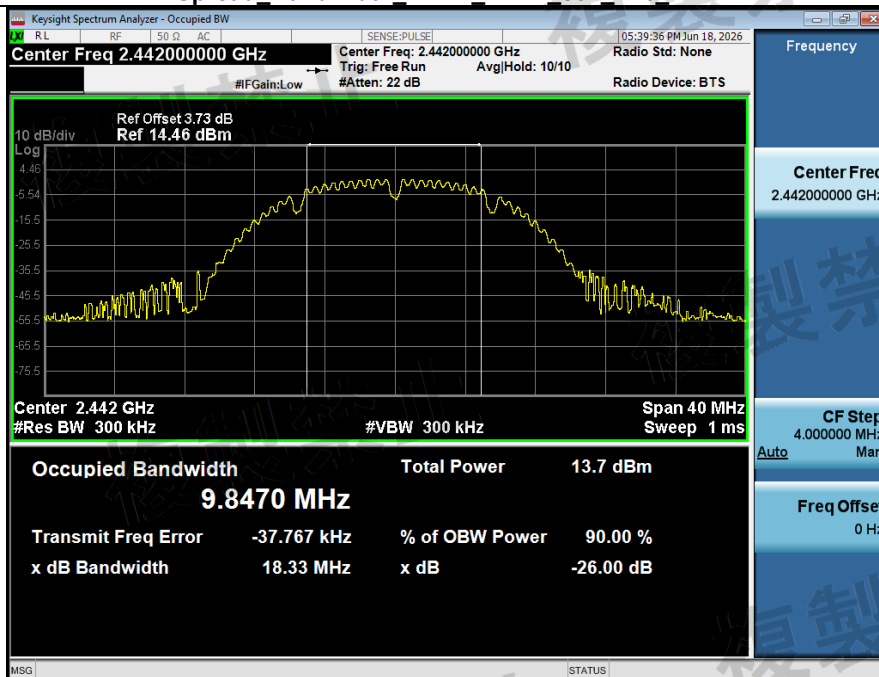




Spread Bandwidth NVNT ANT1 802 11b 2442



Spread Bandwidth NVNT ANT2 802 11b 2442

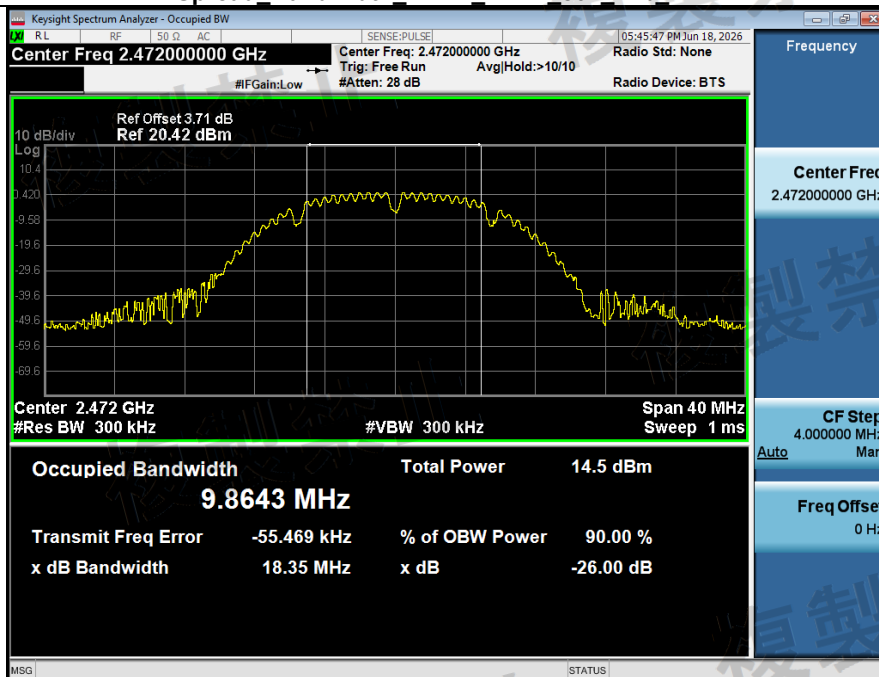




Spread Bandwidth NVNT ANT1 802 11b 2472

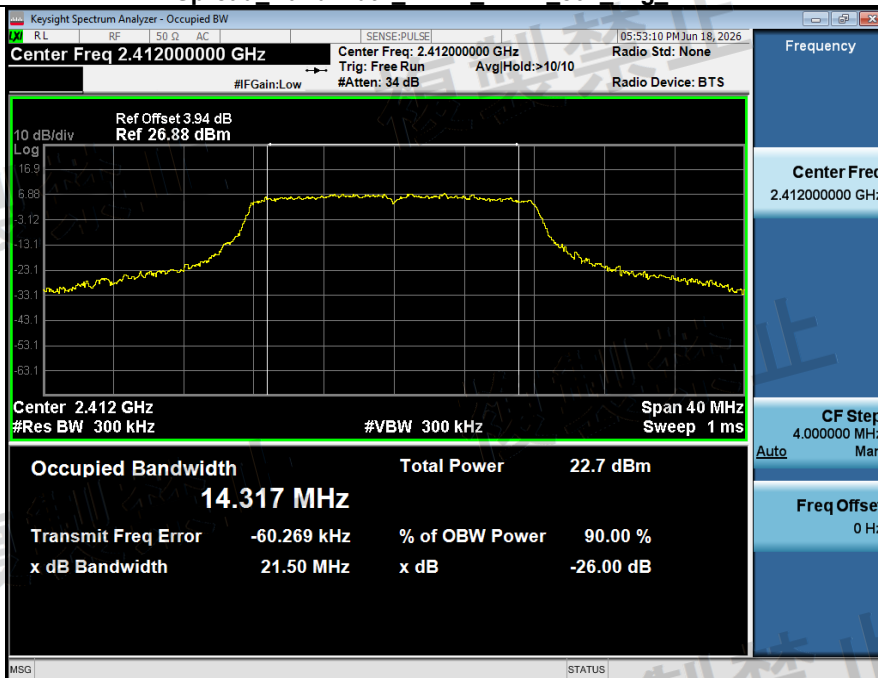


Spread Bandwidth NVNT ANT2 802 11b 2472

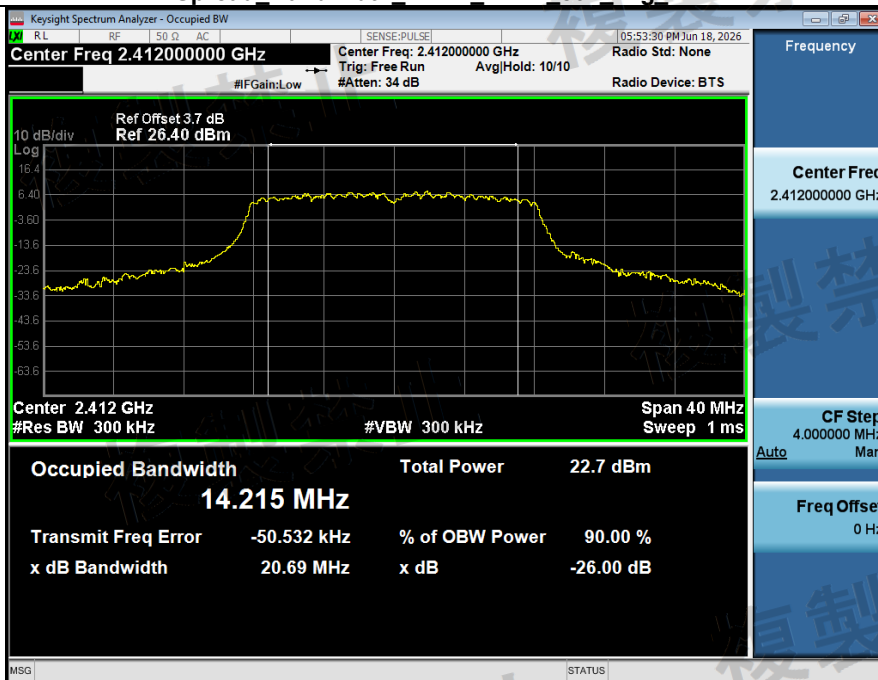




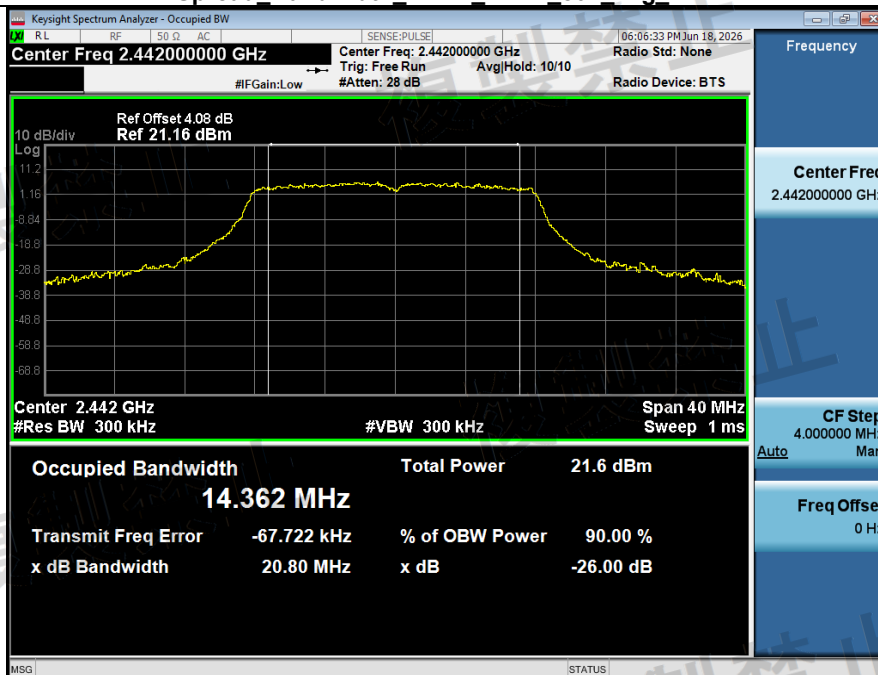
Spread Bandwidth NVNT ANT1_802_11g_2412



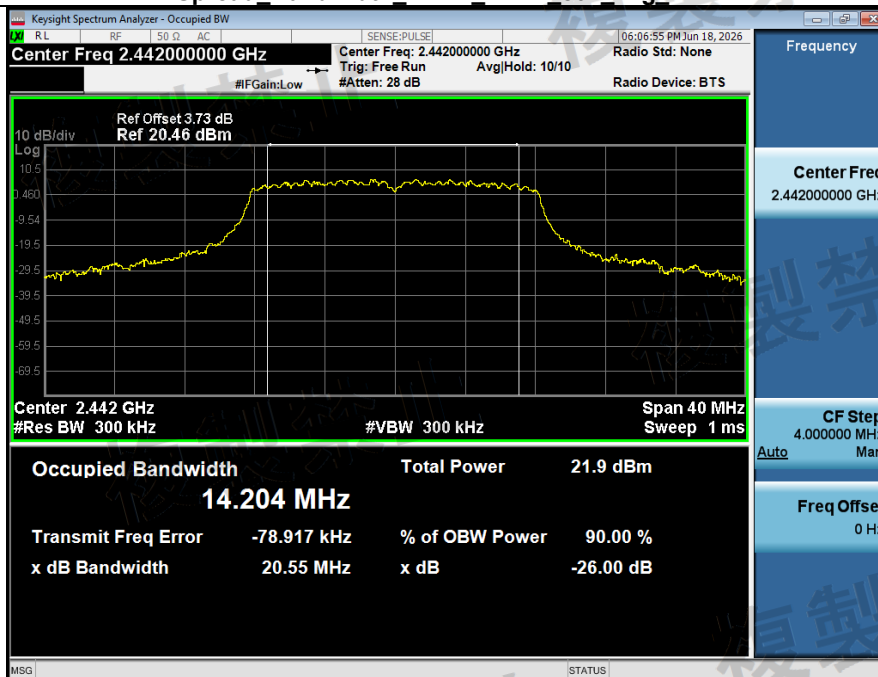
Spread Bandwidth NVNT ANT2_802_11g_2412



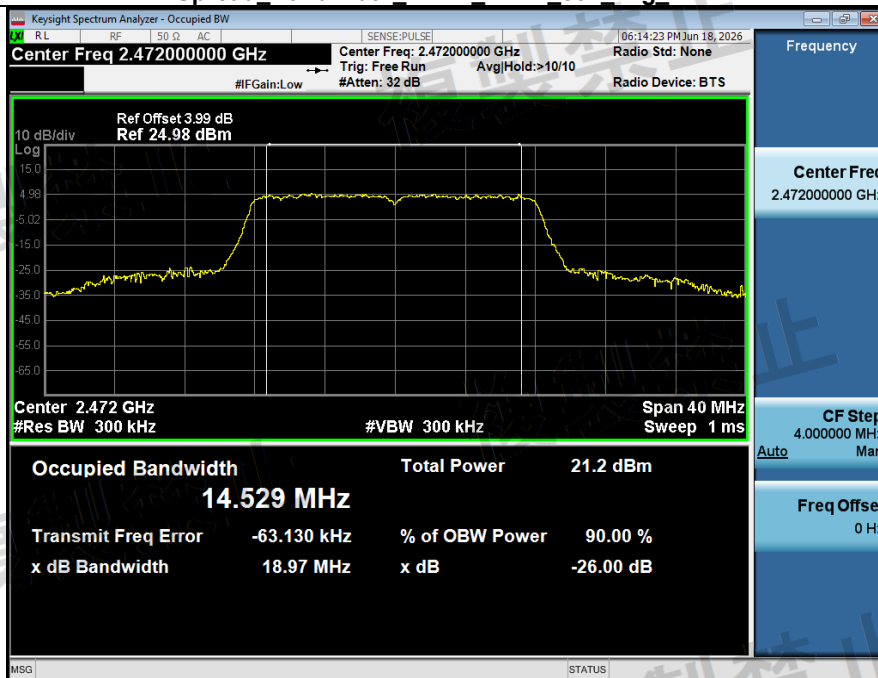
Spread Bandwidth NVNT ANT1_802_11g_2442



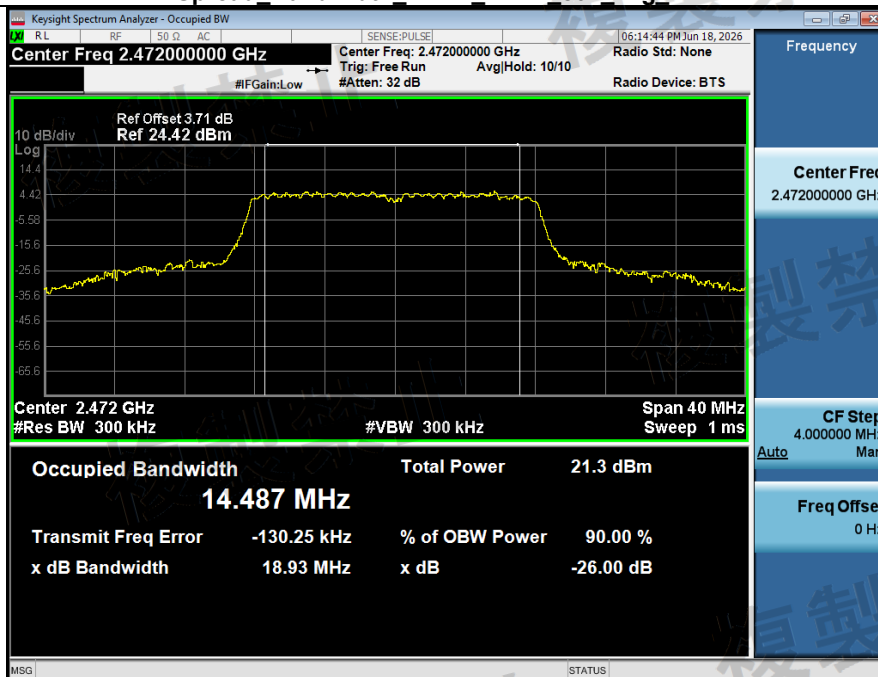
Spread Bandwidth NVNT ANT2_802_11g_2442



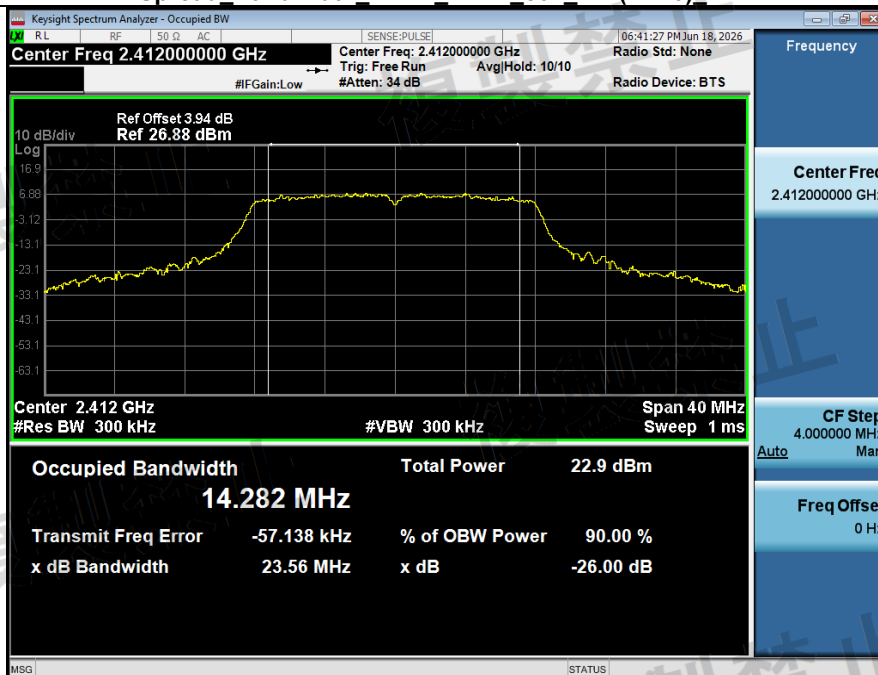
Spread Bandwidth NVNT ANT1_802_11g_2472



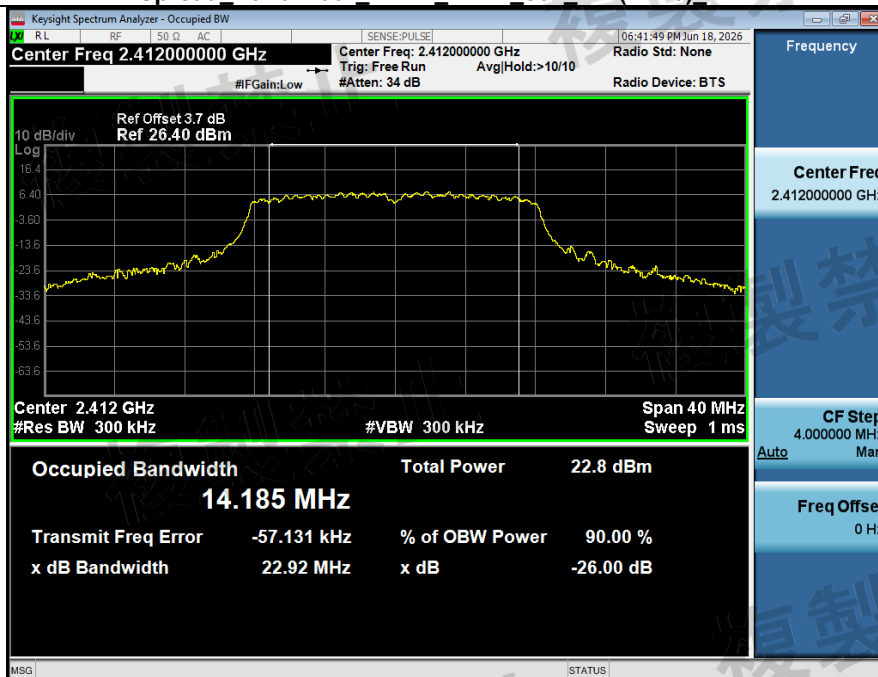
Spread Bandwidth NVNT ANT2_802_11g_2472



Spread Bandwidth_NVNT_ANT1_802_11n(HT20)_2412

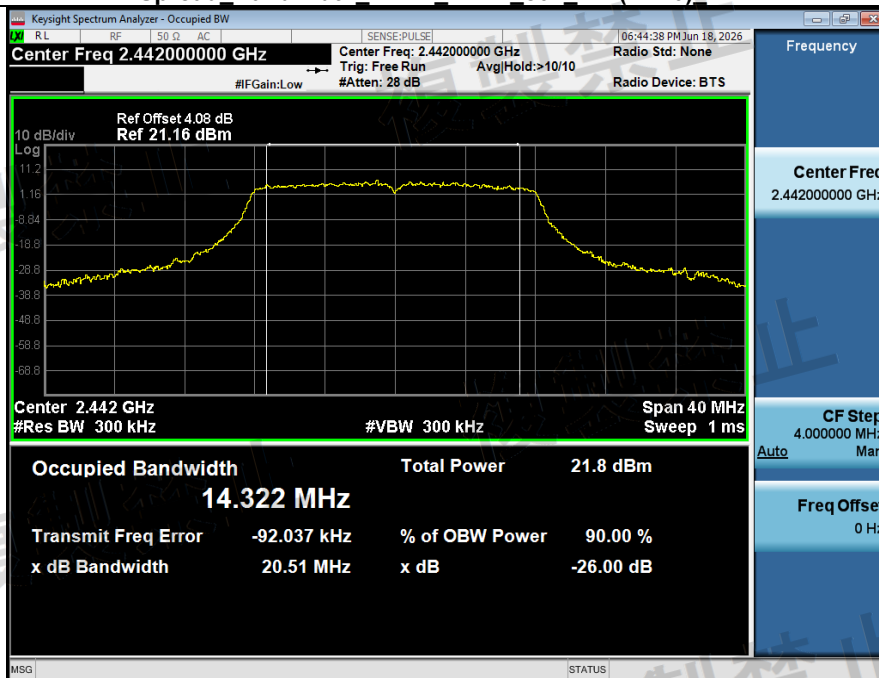


Spread Bandwidth_NVNT_ANT2_802_11n(HT20)_2412

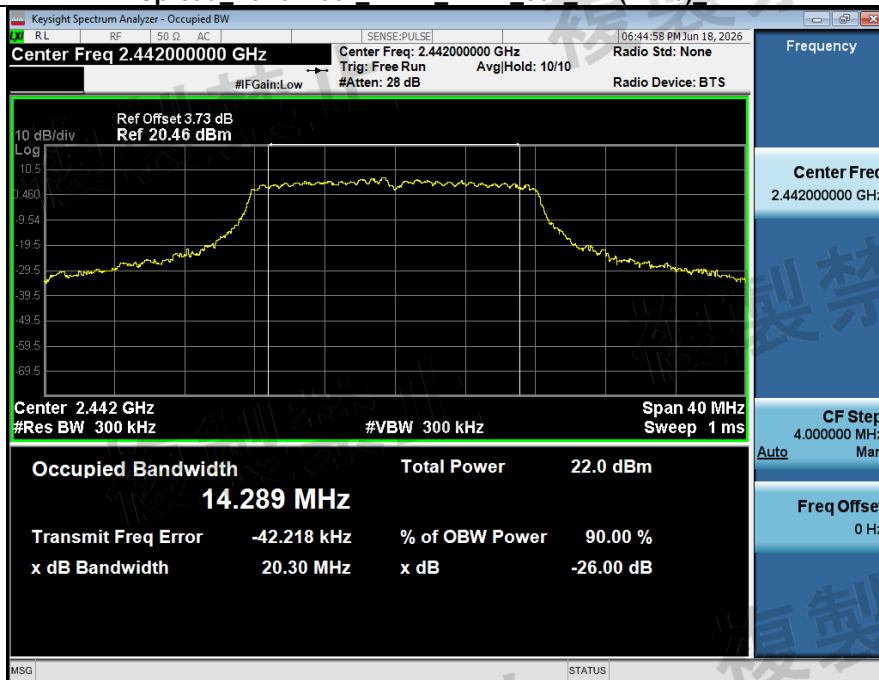




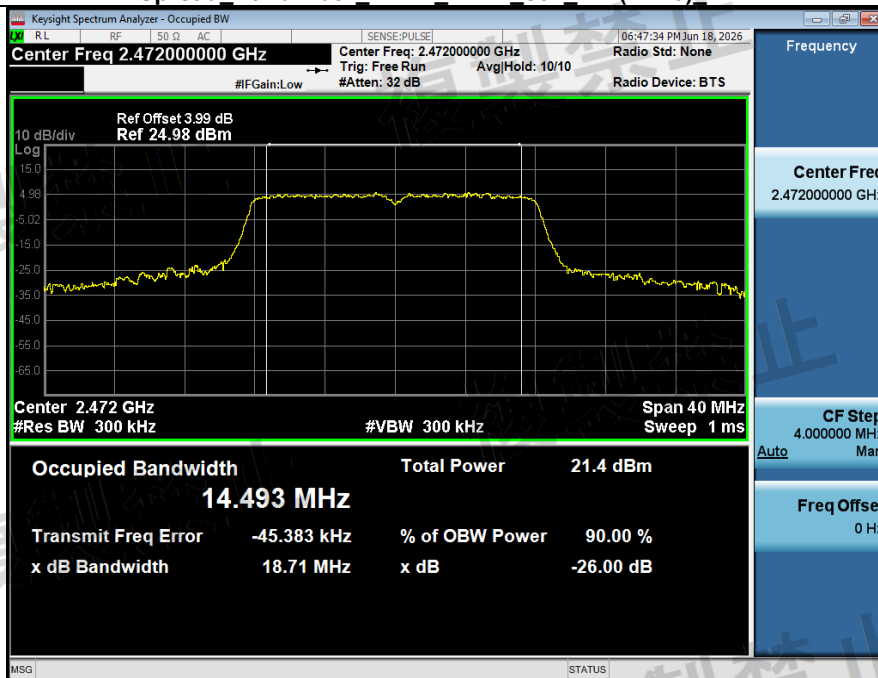
Spread Bandwidth_NVNT_ANT1_802_11n(HT20)_2442



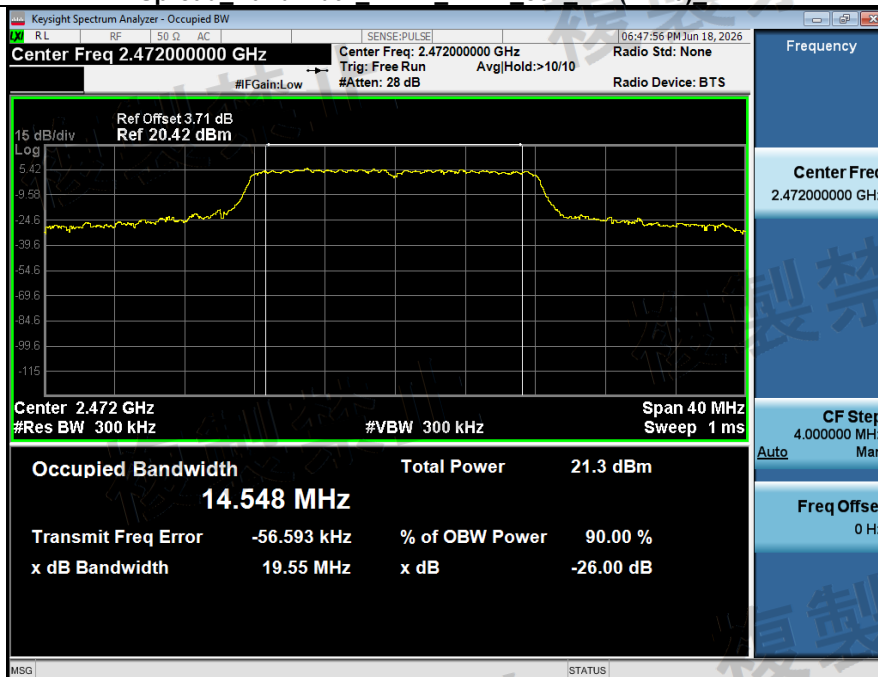
Spread Bandwidth_NVNT_ANT2_802_11n(HT20)_2442



Spread Bandwidth_NVNT_ANT1_802_11n(HT20)_2472

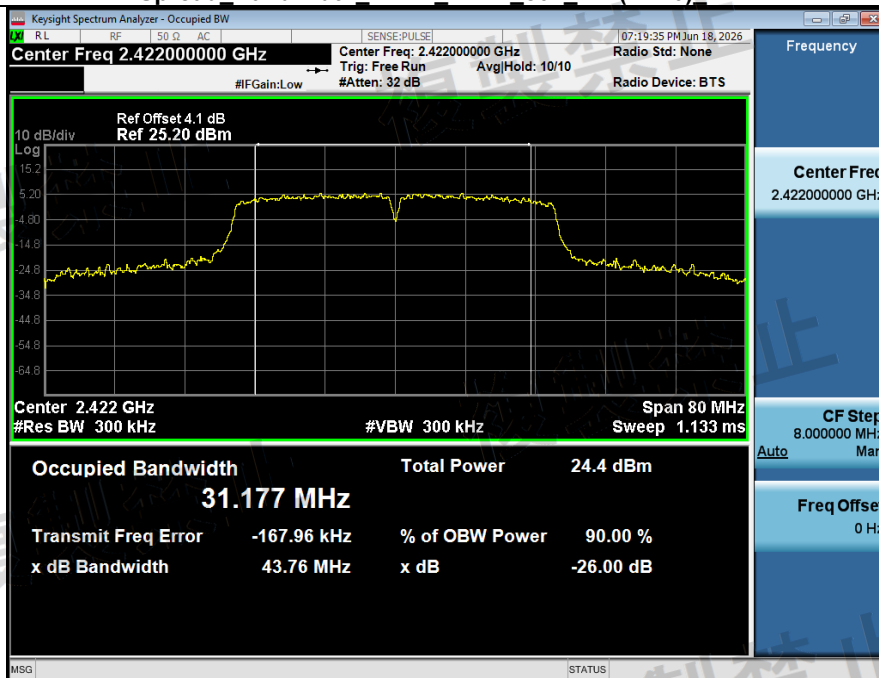


Spread Bandwidth_NVNT_ANT2_802_11n(HT20)_2472

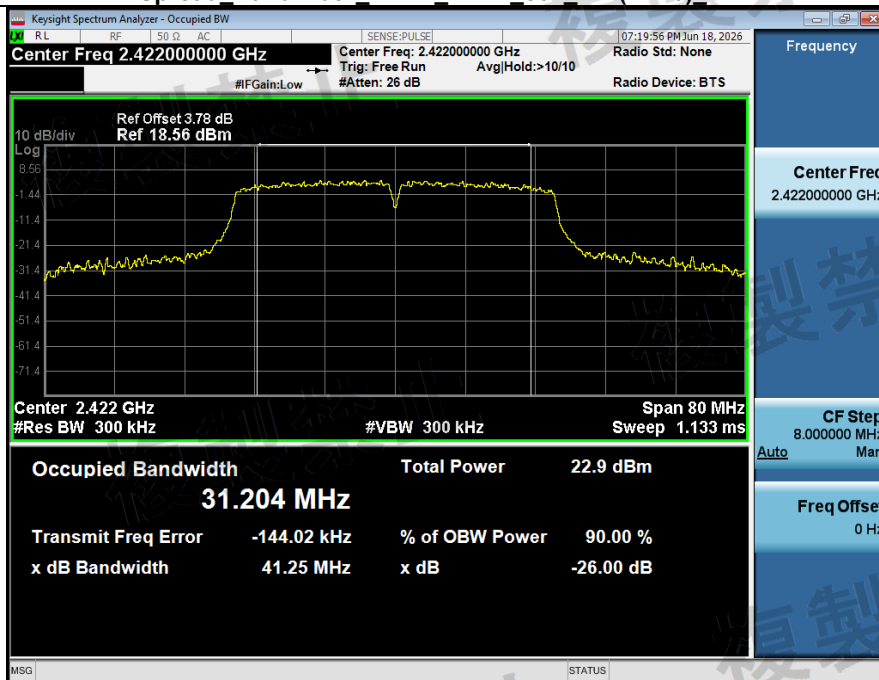




Spread Bandwidth_NVNT_ANT1_802_11n(HT40)_2422

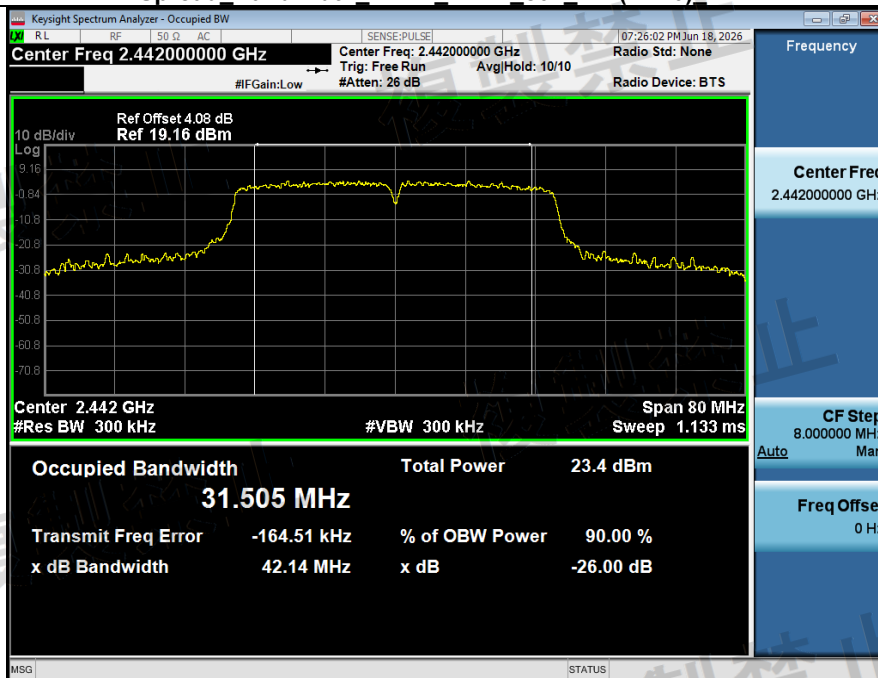


Spread Bandwidth_NVNT_ANT2_802_11n(HT40)_2422

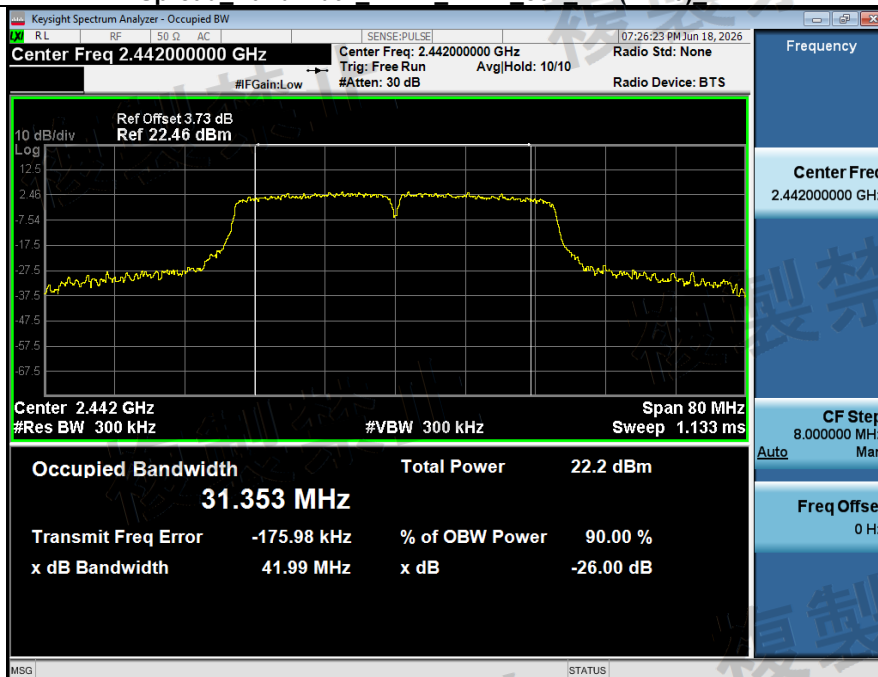




Spread Bandwidth_NVNT_ANT1_802_11n(HT40)_2442

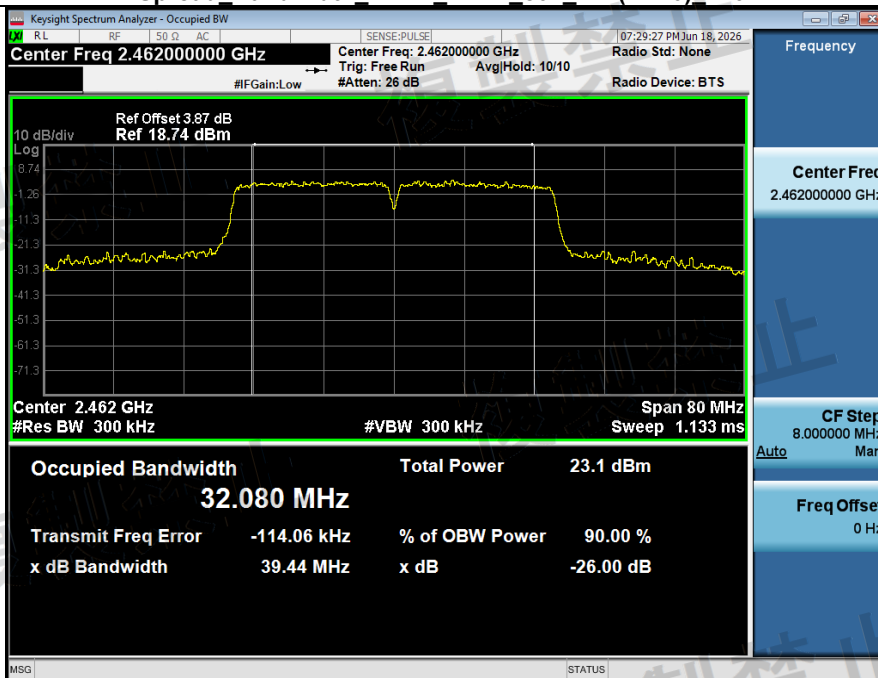


Spread Bandwidth_NVNT_ANT2_802_11n(HT40)_2442

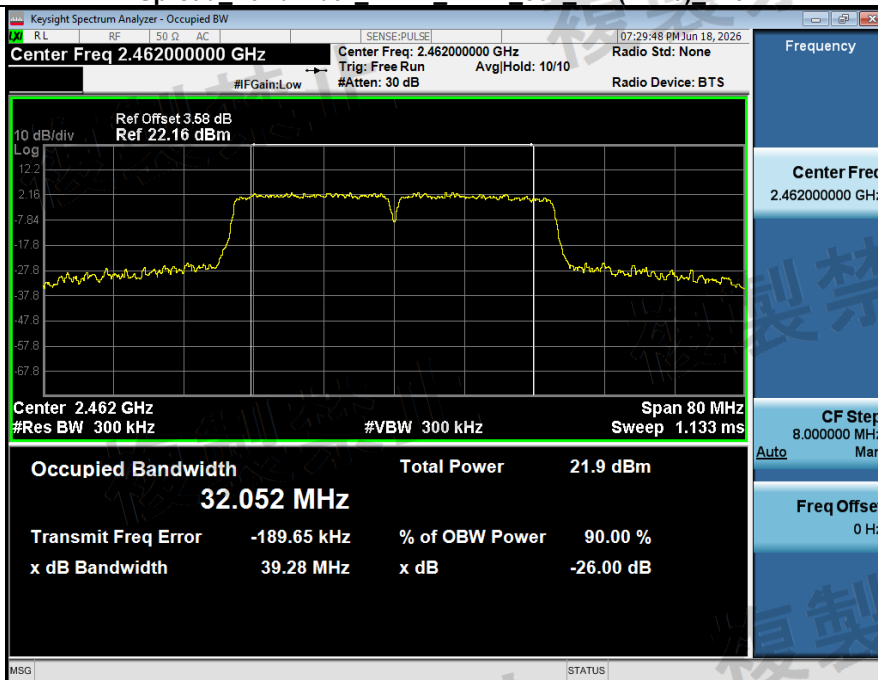




Spread Bandwidth_NVNT_ANT1_802_11n(HT40)_2462



Spread Bandwidth_NVNT_ANT2_802_11n(HT40)_2462



Appendix A.5: Test Results of Spurious Emissions for Transmitter

Test Result

Condition	Antenna	Mode	Frequency (MHz)	Frequency Area(MHz)	RBW (kHz)	Spur. Fre. (MHz)	Spur. Level (dBm/MHz)	Limit (dBm/MHz)	Spur. Level (μW/MHz)	Limit (μW/MHz)	Result
NVNT	ANT1	802.11b	2412.00	30.00~2387.00	1000	2252.65	-46.55	-26	0.0221	2.5	Pass
NVNT	ANT1	802.11b	2412.00	2387.00~2400.00	1000	2399.95	-26.75	-16	2.1137	25	Pass
NVNT	ANT1	802.11b	2412.00	2400.00~2483.50	/	/	/	/	/	/	/
NVNT	ANT1	802.11b	2412.00	2483.50~2496.50	1000	2491.49	-49.73	-16	0.0106	25	Pass
NVNT	ANT1	802.11b	2412.00	2496.50~13000.00	1000	2570.02	-49.42	-26	0.0114	2.5	Pass
NVNT	ANT2	802.11b	2412.00	30.00~2387.00	1000	2250.29	-47.37	-26	0.0183	2.5	Pass
NVNT	ANT2	802.11b	2412.00	2387.00~2400.00	1000	2399.78	-27.88	-16	1.6297	25	Pass
NVNT	ANT2	802.11b	2412.00	2400.00~2483.50	/	/	/	/	/	/	/
NVNT	ANT2	802.11b	2412.00	2483.50~2496.50	1000	2484.92	-51.73	-16	0.0067	25	Pass
NVNT	ANT2	802.11b	2412.00	2496.50~13000.00	1000	2570.02	-49.80	-26	0.0104	2.5	Pass
NVNT	ANT1	802.11b	2442.00	30.00~2387.00	1000	1769.47	-44.10	-26	0.0388	2.5	Pass
NVNT	ANT1	802.11b	2442.00	2387.00~2400.00	1000	2399.53	-49.92	-16	0.0101	25	Pass
NVNT	ANT1	802.11b	2442.00	2400.00~2483.50	/	/	/	/	/	/	/
NVNT	ANT1	802.11b	2442.00	2483.50~2496.50	1000	2486.98	-50.84	-16	0.0082	25	Pass
NVNT	ANT1	802.11b	2442.00	2496.50~13000.00	1000	5174.89	-48.92	-26	0.0128	2.5	Pass
NVNT	ANT2	802.11b	2442.00	30.00~2387.00	1000	192.63	-49.34	-26	0.0116	2.5	Pass
NVNT	ANT2	802.11b	2442.00	2387.00~2400.00	1000	2399.84	-50.50	-16	0.0089	25	Pass
NVNT	ANT2	802.11b	2442.00	2400.00~2483.50	/	/	/	/	/	/	/
NVNT	ANT2	802.11b	2442.00	2483.50~2496.50	1000	2485.39	-51.04	-16	0.0078	25	Pass
NVNT	ANT2	802.11b	2442.00	2496.50~13000.00	1000	2496.50	-52.89	-26	0.0051	2.5	Pass
NVNT	ANT1	802.11b	2472.00	30.00~2387.00	1000	2387.00	-51.39	-26	0.0072	2.5	Pass
NVNT	ANT1	802.11b	2472.00	2387.00~2400.00	1000	2389.60	-49.45	-16	0.0113	25	Pass
NVNT	ANT1	802.11b	2472.00	2400.00~2483.50	/	/	/	/	/	/	/
NVNT	ANT1	802.11b	2472.00	2483.50~2496.50	1000	2483.50	-25.65	-16	2.7217	25	Pass
NVNT	ANT1	802.11b	2472.00	2496.50~13000.00	1000	2496.50	-44.40	-26	0.0363	2.5	Pass
NVNT	ANT2	802.11b	2472.00	30.00~2387.00	1000	192.63	-50.11	-26	0.0097	2.5	Pass
NVNT	ANT2	802.11b	2472.00	2387.00~2400.00	1000	2399.99	-49.86	-16	0.0103	25	Pass
NVNT	ANT2	802.11b	2472.00	2400.00~2483.50	/	/	/	/	/	/	/
NVNT	ANT2	802.11b	2472.00	2483.50~2496.50	1000	2483.62	-26.27	-16	2.3613	25	Pass
NVNT	ANT2	802.11b	2472.00	2496.50~13000.00	1000	5185.40	-46.54	-26	0.0221	2.5	Pass
NVNT	ANT1	802.11g	2412.00	30.00~2387.00	1000	2387.00	-38.94	-26	0.1276	2.5	Pass
NVNT	ANT1	802.11g	2412.00	2387.00~2400.00	1000	2399.99	-20.07	-16	9.8382	25	Pass
NVNT	ANT1	802.11g	2412.00	2400.00~2483.50	/	/	/	/	/	/	/

NVNT	ANT1	802.11g	2412.00	2483.50~2496.5 0	1000	2492.0 8	-47.46	-16	0.0179	25	Pass
NVNT	ANT1	802.11g	2412.00	2496.50~13000. 00	1000	2496.5 0	-50.06	-26	0.0098	2.5	Pass
NVNT	ANT2	802.11g	2412.00	30.00~2387.00	1000	2387.0 0	-41.47	-26	0.0712	2.5	Pass
NVNT	ANT2	802.11g	2412.00	2387.00~2400.0 0	1000	2399.9 6	-21.85	-16	6.5275	25	Pass
NVNT	ANT2	802.11g	2412.00	2400.00~2483.5 0	/	/	/	/	/	/	/
NVNT	ANT2	802.11g	2412.00	2483.50~2496.5 0	1000	2487.0 0	-50.20	-16	0.0095	25	Pass
NVNT	ANT2	802.11g	2412.00	2496.50~13000. 00	1000	2507.0 0	-52.92	-26	0.0051	2.5	Pass
NVNT	ANT1	802.11g	2442.00	30.00~2387.00	1000	2365.7 9	-46.91	-26	0.0203	2.5	Pass
NVNT	ANT1	802.11g	2442.00	2387.00~2400.0 0	1000	2399.8 4	-40.58	-16	0.0875	25	Pass
NVNT	ANT1	802.11g	2442.00	2400.00~2483.5 0	/	/	/	/	/	/	/
NVNT	ANT1	802.11g	2442.00	2483.50~2496.5 0	1000	2484.4 1	-42.74	-16	0.0532	25	Pass
NVNT	ANT1	802.11g	2442.00	2496.50~13000. 00	1000	5185.4 0	-46.79	-26	0.0209	2.5	Pass
NVNT	ANT2	802.11g	2442.00	30.00~2387.00	1000	2384.6 4	-46.97	-26	0.0200	2.5	Pass
NVNT	ANT2	802.11g	2442.00	2387.00~2400.0 0	1000	2399.9 5	-41.57	-16	0.0695	25	Pass
NVNT	ANT2	802.11g	2442.00	2400.00~2483.5 0	/	/	/	/	/	/	/
NVNT	ANT2	802.11g	2442.00	2483.50~2496.5 0	1000	2483.6 2	-45.40	-16	0.0288	25	Pass
NVNT	ANT2	802.11g	2442.00	2496.50~13000. 00	1000	2496.5 0	-49.18	-26	0.0120	2.5	Pass
NVNT	ANT1	802.11g	2472.00	30.00~2387.00	1000	2387.0 0	-50.39	-26	0.0091	2.5	Pass
NVNT	ANT1	802.11g	2472.00	2387.00~2400.0 0	1000	2399.9 1	-48.17	-16	0.0152	25	Pass
NVNT	ANT1	802.11g	2472.00	2400.00~2483.5 0	/	/	/	/	/	/	/
NVNT	ANT1	802.11g	2472.00	2483.50~2496.5 0	1000	2483.5 4	-26.47	-16	2.2527	25	Pass
NVNT	ANT1	802.11g	2472.00	2496.50~13000. 00	1000	2496.5 0	-39.40	-26	0.1148	2.5	Pass
NVNT	ANT2	802.11g	2472.00	30.00~2387.00	1000	192.63	-49.40	-26	0.0114	2.5	Pass
NVNT	ANT2	802.11g	2472.00	2387.00~2400.0 0	1000	2399.9 3	-48.43	-16	0.0143	25	Pass
NVNT	ANT2	802.11g	2472.00	2400.00~2483.5 0	/	/	/	/	/	/	/
NVNT	ANT2	802.11g	2472.00	2483.50~2496.5 0	1000	2483.5 3	-26.17	-16	2.4137	25	Pass
NVNT	ANT2	802.11g	2472.00	2496.50~13000. 00	1000	2496.5 0	-37.71	-26	0.1695	2.5	Pass
NVNT	ANT1	802.11n(HT2 0)	2412.00	30.00~2387.00	1000	2387.0 0	-38.56	-26	0.1392	2.5	Pass
NVNT	ANT1	802.11n(HT2 0)	2412.00	2387.00~2400.0 0	1000	2400.0 0	-19.92	-16	10.1868	25	Pass
NVNT	ANT1	802.11n(HT2 0)	2412.00	2400.00~2483.5 0	/	/	/	/	/	/	/
NVNT	ANT1	802.11n(HT2 0)	2412.00	2483.50~2496.5 0	1000	2492.2 5	-47.03	-16	0.0198	25	Pass
NVNT	ANT1	802.11n(HT2 0)	2412.00	2496.50~13000. 00	1000	5174.8 9	-44.77	-26	0.0333	2.5	Pass
NVNT	ANT2	802.11n(HT2 0)	2412.00	30.00~2387.00	1000	2387.0 0	-40.94	-26	0.0805	2.5	Pass
NVNT	ANT2	802.11n(HT2 0)	2412.00	2387.00~2400.0 0	1000	2400.0 0	-21.38	-16	7.2698	25	Pass
NVNT	ANT2	802.11n(HT2 0)	2412.00	2400.00~2483.5 0	/	/	/	/	/	/	/
NVNT	ANT2	802.11n(HT2 0)	2412.00	2483.50~2496.5 0	1000	2485.3 9	-49.89	-16	0.0102	25	Pass
NVNT	ANT2	802.11n(HT2 0)	2412.00	2496.50~13000. 00	1000	5174.8	-48.17	-26	0.0152	2.5	Pass

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NVNT	ANT1	802.11n(HT2 0)	2442.00	30.00~2387.00	1000	1776.5 4	-47.60	-26	0.0173	2.5	Pass
NVNT	ANT1	802.11n(HT2 0)	2442.00	2387.00~2400.0 0	1000	2399.5 5	-46.41	-16	0.0228	25	Pass
NVNT	ANT1	802.11n(HT2 0)	2442.00	2400.00~2483.5 0	/	/	/	/	/	/	/
NVNT	ANT1	802.11n(HT2 0)	2442.00	2483.50~2496.5 0	1000	2483.9 7	-47.60	-16	0.0173	25	Pass
NVNT	ANT1	802.11n(HT2 0)	2442.00	2496.50~13000. 00	1000	4544.6 8	-51.11	-26	0.0077	2.5	Pass
NVNT	ANT2	802.11n(HT2 0)	2442.00	30.00~2387.00	1000	2368.1 4	-49.68	-26	0.0107	2.5	Pass
NVNT	ANT2	802.11n(HT2 0)	2442.00	2387.00~2400.0 0	1000	2399.7 8	-46.79	-16	0.0209	25	Pass
NVNT	ANT2	802.11n(HT2 0)	2442.00	2400.00~2483.5 0	/	/	/	/	/	/	/
NVNT	ANT2	802.11n(HT2 0)	2442.00	2483.50~2496.5 0	1000	2485.1 6	-48.98	-16	0.0126	25	Pass
NVNT	ANT2	802.11n(HT2 0)	2442.00	2496.50~13000. 00	1000	5174.8 9	-43.43	-26	0.0454	2.5	Pass
NVNT	ANT1	802.11n(HT2 0)	2472.00	30.00~2387.00	1000	2384.6 4	-50.33	-26	0.0092	2.5	Pass
NVNT	ANT1	802.11n(HT2 0)	2472.00	2387.00~2400.0 0	1000	2399.0 6	-48.27	-16	0.0148	25	Pass
NVNT	ANT1	802.11n(HT2 0)	2472.00	2400.00~2483.5 0	/	/	/	/	/	/	/
NVNT	ANT1	802.11n(HT2 0)	2472.00	2483.50~2496.5 0	1000	2483.5 0	-26.50	-16	2.2370	25	Pass
NVNT	ANT1	802.11n(HT2 0)	2472.00	2496.50~13000. 00	1000	2496.5 0	-37.96	-26	0.1598	2.5	Pass
NVNT	ANT2	802.11n(HT2 0)	2472.00	30.00~2387.00	1000	2361.0 7	-50.30	-26	0.0093	2.5	Pass
NVNT	ANT2	802.11n(HT2 0)	2472.00	2387.00~2400.0 0	1000	2399.9 1	-47.99	-16	0.0158	25	Pass
NVNT	ANT2	802.11n(HT2 0)	2472.00	2400.00~2483.5 0	/	/	/	/	/	/	/
NVNT	ANT2	802.11n(HT2 0)	2472.00	2483.50~2496.5 0	1000	2483.5 9	-25.63	-16	2.7362	25	Pass
NVNT	ANT2	802.11n(HT2 0)	2472.00	2496.50~13000. 00	1000	2496.5 0	-41.39	-26	0.0726	2.5	Pass
NVNT	ANT1	802.11n(HT4 0)	2422.00	30.00~2387.00	1000	2384.6 4	-32.86	-26	0.5177	2.5	Pass
NVNT	ANT1	802.11n(HT4 0)	2422.00	2387.00~2400.0 0	1000	2399.9 9	-19.85	-16	10.3444	25	Pass
NVNT	ANT1	802.11n(HT4 0)	2422.00	2400.00~2483.5 0	/	/	/	/	/	/	/
NVNT	ANT1	802.11n(HT4 0)	2422.00	2483.50~2496.5 0	1000	2486.5 2	-44.59	-16	0.0347	25	Pass
NVNT	ANT1	802.11n(HT4 0)	2422.00	2496.50~13000. 00	1000	5174.8 9	-45.79	-26	0.0263	2.5	Pass
NVNT	ANT2	802.11n(HT4 0)	2422.00	30.00~2387.00	1000	2387.0 0	-37.83	-26	0.1646	2.5	Pass
NVNT	ANT2	802.11n(HT4 0)	2422.00	2387.00~2400.0 0	1000	2399.2 2	-23.33	-16	4.6437	25	Pass
NVNT	ANT2	802.11n(HT4 0)	2422.00	2400.00~2483.5 0	/	/	/	/	/	/	/
NVNT	ANT2	802.11n(HT4 0)	2422.00	2483.50~2496.5 0	1000	2486.7 8	-46.34	-16	0.0232	25	Pass
NVNT	ANT2	802.11n(HT4 0)	2422.00	2496.50~13000. 00	1000	5185.4 0	-43.74	-26	0.0422	2.5	Pass
NVNT	ANT1	802.11n(HT4 0)	2442.00	30.00~2387.00	1000	2377.5 7	-43.01	-26	0.0500	2.5	Pass
NVNT	ANT1	802.11n(HT4 0)	2442.00	2387.00~2400.0 0	1000	2399.8 3	-36.54	-16	0.2218	25	Pass
NVNT	ANT1	802.11n(HT4 0)	2442.00	2400.00~2483.5 0	/	/	/	/	/	/	/
NVNT	ANT1	802.11n(HT4 0)	2442.00	2483.50~2496.5 0	1000	2484.1 5	-38.43	-16	0.1435	25	Pass
NVNT	ANT1	802.11n(HT4 0)	2442.00	2496.50~13000. 00	1000	5174.8 9	-45.29	-26	0.0296	2.5	Pass
NVNT	ANT2	802.11n(HT4 0)	2442.00	30.00~2387.00	1000	2384.6	-47.38	-26	0.0182	2.5	Pass

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NVNT	ANT2	802.11n(HT4 0)	2442.00	2387.00~2400.0 0	1000	2398.2 4	-39.81	-16	0.1044	25	Pass
NVNT	ANT2	802.11n(HT4 0)	2442.00	2400.00~2483.5 0	/	/	/	/	/	/	/
NVNT	ANT2	802.11n(HT4 0)	2442.00	2483.50~2496.5 0	1000	2486.1 4	-43.03	-16	0.0497	25	Pass
NVNT	ANT2	802.11n(HT4 0)	2442.00	2496.50~13000. 00	1000	2496.5 0	-46.86	-26	0.0205	2.5	Pass
NVNT	ANT1	802.11n(HT4 0)	2462.00	30.00~2387.00	1000	2387.0 0	-47.59	-26	0.0174	2.5	Pass
NVNT	ANT1	802.11n(HT4 0)	2462.00	2387.00~2400.0 0	1000	2398.1 9	-40.00	-16	0.0999	25	Pass
NVNT	ANT1	802.11n(HT4 0)	2462.00	2400.00~2483.5 0	/	/	/	/	/	/	/
NVNT	ANT1	802.11n(HT4 0)	2462.00	2483.50~2496.5 0	1000	2484.0 6	-32.99	-16	0.5028	25	Pass
NVNT	ANT1	802.11n(HT4 0)	2462.00	2496.50~13000. 00	1000	2496.5 0	-38.99	-26	0.1262	2.5	Pass
NVNT	ANT2	802.11n(HT4 0)	2462.00	30.00~2387.00	1000	2370.5 0	-47.85	-26	0.0163	2.5	Pass
NVNT	ANT2	802.11n(HT4 0)	2462.00	2387.00~2400.0 0	1000	2399.8 4	-44.19	-16	0.0381	25	Pass
NVNT	ANT2	802.11n(HT4 0)	2462.00	2400.00~2483.5 0	/	/	/	/	/	/	/
NVNT	ANT2	802.11n(HT4 0)	2462.00	2483.50~2496.5 0	1000	2485.6 4	-37.99	-16	0.1588	25	Pass
NVNT	ANT2	802.11n(HT4 0)	2462.00	2496.50~13000. 00	1000	2507.0 0	-45.19	-26	0.0302	2.5	Pass

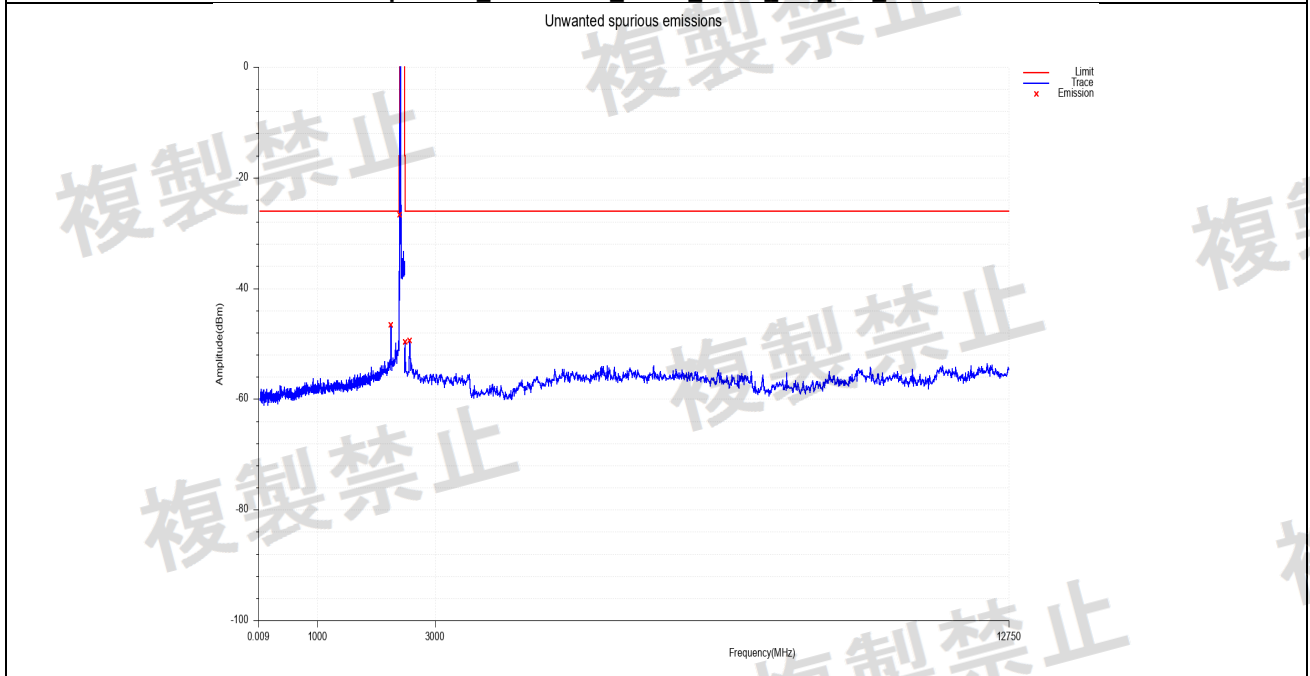
MOMO Mode(1/2 Limit)

Antenna	Mode	Frequency (MHz)	Frequency Area(MHz)	RBW (kHz)	Spur. Fre.(MHz)	Spur. Level(dBm)	1/2 Limit (dBm)	Spur. Level (uW/MHz)	1/2 Limit (uW/MHz)	Result
ANT1	802.11n(HT20)	2412.00	30.00~2387.00	1000	2387.00	-38.56	-29.03	0.1392	1.25	Pass
ANT1	802.11n(HT20)	2412.00	2387.00~2400.00	1000	2400.00	-19.92	-19.03	10.1868	12.5	Pass
ANT1	802.11n(HT20)	2412.00	2400.00~2483.50	/	/	/	/	/	/	/
ANT1	802.11n(HT20)	2412.00	2483.50~2496.50	1000	2492.25	-47.03	-19.03	0.0198	12.5	Pass
ANT1	802.11n(HT20)	2412.00	2496.50~13000.00	1000	5174.89	-44.77	-29.03	0.0333	1.25	Pass
ANT2	802.11n(HT20)	2412.00	30.00~2387.00	1000	2387.00	-40.94	-29.03	0.0805	1.25	Pass
ANT2	802.11n(HT20)	2412.00	2387.00~2400.00	1000	2400.00	-21.38	-19.03	7.2698	12.5	Pass
ANT2	802.11n(HT20)	2412.00	2400.00~2483.50	/	/	/	/	/	/	/
ANT2	802.11n(HT20)	2412.00	2483.50~2496.50	1000	2485.39	-49.89	-19.03	0.0102	12.5	Pass
ANT2	802.11n(HT20)	2412.00	2496.50~13000.00	1000	5174.89	-48.17	-29.03	0.0152	1.25	Pass
ANT1	802.11n(HT20)	2442.00	30.00~2387.00	1000	1776.54	-47.60	-29.03	0.0173	1.25	Pass
ANT1	802.11n(HT20)	2442.00	2387.00~2400.00	1000	2399.55	-46.41	-19.03	0.0228	12.5	Pass
ANT1	802.11n(HT20)	2442.00	2400.00~2483.50	/	/	/	/	/	/	/
ANT1	802.11n(HT20)	2442.00	2483.50~2496.50	1000	2483.97	-47.60	-19.03	0.0173	12.5	Pass
ANT1	802.11n(HT20)	2442.00	2496.50~13000.00	1000	4544.68	-51.11	-29.03	0.0077	1.25	Pass
ANT2	802.11n(HT20)	2442.00	30.00~2387.00	1000	2368.14	-49.68	-29.03	0.0107	1.25	Pass
ANT2	802.11n(HT20)	2442.00	2387.00~2400.00	1000	2399.78	-46.79	-19.03	0.0209	12.5	Pass
ANT2	802.11n(HT20)	2442.00	2400.00~2483.50	/	/	/	/	/	/	/
ANT2	802.11n(HT20)	2442.00	2483.50~2496.50	1000	2485.16	-48.98	-19.03	0.0126	12.5	Pass
ANT2	802.11n(HT20)	2442.00	2496.50~13000.00	1000	5174.89	-43.43	-29.03	0.0454	1.25	Pass
ANT1	802.11n(HT20)	2472.00	30.00~2387.00	1000	2384.64	-50.33	-29.03	0.0092	1.25	Pass
ANT1	802.11n(HT20)	2472.00	2387.00~2400.00	1000	2399.06	-48.27	-19.03	0.0148	12.5	Pass
ANT1	802.11n(HT20)	2472.00	2400.00~2483.50	/	/	/	/	/	/	/
ANT1	802.11n(HT20)	2472.00	2483.50~2496.50	1000	2483.50	-26.50	-19.03	2.2370	12.5	Pass
ANT1	802.11n(HT20)	2472.00	2496.50~13000.00	1000	2496.50	-37.96	-29.03	0.1598	1.25	Pass
ANT2	802.11n(HT20)	2472.00	30.00~2387.00	1000	2361.07	-50.30	-29.03	0.0093	1.25	Pass
ANT2	802.11n(HT20)	2472.00	2387.00~2400.00	1000	2399.91	-47.99	-19.03	0.0158	12.5	Pass
ANT2	802.11n(HT20)	2472.00	2400.00~2483.50	/	/	/	/	/	/	/
ANT2	802.11n(HT20)	2472.00	2483.50~2496.50	1000	2483.59	-25.63	-19.03	2.7362	12.5	Pass
ANT2	802.11n(HT20)	2472.00	2496.50~13000.00	1000	2496.50	-41.39	-29.03	0.0726	1.25	Pass
ANT1	802.11n(HT40)	2422.00	30.00~2387.00	1000	2384.64	-32.86	-29.03	0.5177	1.25	Pass
ANT1	802.11n(HT40)	2422.00	2387.00~2400.00	1000	2399.99	-19.85	-19.03	10.3444	12.5	Pass
ANT1	802.11n(HT40)	2422.00	2400.00~2483.50	/	/	/	/	/	/	/
ANT1	802.11n(HT40)	2422.00	2483.50~2496.50	1000	2486.52	-44.59	-19.03	0.0347	12.5	Pass
ANT1	802.11n(HT40)	2422.00	2496.50~13000.00	1000	5174.89	-45.79	-29.03	0.0263	1.25	Pass
ANT2	802.11n(HT40)	2422.00	30.00~2387.00	1000	2387.00	-37.83	-29.03	0.1646	1.25	Pass
ANT2	802.11n(HT40)	2422.00	2387.00~2400.00	1000	2399.22	-23.33	-19.03	4.6437	12.5	Pass
ANT2	802.11n(HT40)	2422.00	2400.00~2483.50	/	/	/	/	/	/	/
ANT2	802.11n(HT40)	2422.00	2483.50~2496.50	1000	2486.78	-46.34	-19.03	0.0232	12.5	Pass
ANT2	802.11n(HT40)	2422.00	2496.50~13000.00	1000	5185.40	-43.74	-29.03	0.0422	1.25	Pass
ANT1	802.11n(HT40)	2442.00	30.00~2387.00	1000	2377.57	-43.01	-29.03	0.0500	1.25	Pass
ANT1	802.11n(HT40)	2442.00	2387.00~2400.00	1000	2399.83	-36.54	-19.03	0.2218	12.5	Pass
ANT1	802.11n(HT40)	2442.00	2400.00~2483.50	/	/	/	/	/	/	/
ANT1	802.11n(HT40)	2442.00	2483.50~2496.50	1000	2484.15	-38.43	-19.03	0.1435	12.5	Pass
ANT1	802.11n(HT40)	2442.00	2496.50~13000.00	1000	5174.89	-45.29	-29.03	0.0296	1.25	Pass
ANT2	802.11n(HT40)	2442.00	30.00~2387.00	1000	2384.64	-47.38	-29.03	0.0182	1.25	Pass
ANT2	802.11n(HT40)	2442.00	2387.00~2400.00	1000	2398.24	-39.81	-19.03	0.1044	12.5	Pass
ANT2	802.11n(HT40)	2442.00	2400.00~2483.50	/	/	/	/	/	/	/
ANT2	802.11n(HT40)	2442.00	2483.50~2496.50	1000	2486.14	-43.03	-19.03	0.0497	12.5	Pass
ANT2	802.11n(HT40)	2442.00	2496.50~13000.00	1000	2496.50	-46.86	-29.03	0.0205	1.25	Pass
ANT1	802.11n(HT40)	2462.00	30.00~2387.00	1000	2387.00	-47.59	-29.03	0.0174	1.25	Pass
ANT1	802.11n(HT40)	2462.00	2387.00~2400.00	1000	2398.19	-40.00	-19.03	0.0999	12.5	Pass
ANT1	802.11n(HT40)	2462.00	2400.00~2483.50	/	/	/	/	/	/	/
ANT1	802.11n(HT40)	2462.00	2483.50~2496.50	1000	2484.06	-32.99	-19.03	0.5028	12.5	Pass
ANT1	802.11n(HT40)	2462.00	2496.50~13000.00	1000	2496.50	-38.99	-29.03	0.1262	1.25	Pass
ANT2	802.11n(HT40)	2462.00	30.00~2387.00	1000	2370.50	-47.85	-29.03	0.0163	1.25	Pass
ANT2	802.11n(HT40)	2462.00	2387.00~2400.00	1000	2399.84	-44.19	-19.03	0.0381	12.5	Pass
ANT2	802.11n(HT40)	2462.00	2400.00~2483.50	/	/	/	/	/	/	/
ANT2	802.11n(HT40)	2462.00	2483.50~2496.50	1000	2485.64	-37.99	-19.03	0.1588	12.5	Pass
ANT2	802.11n(HT40)	2462.00	2496.50~13000.00	1000	2507.00	-45.19	-29.03	0.0302	1.25	Pass

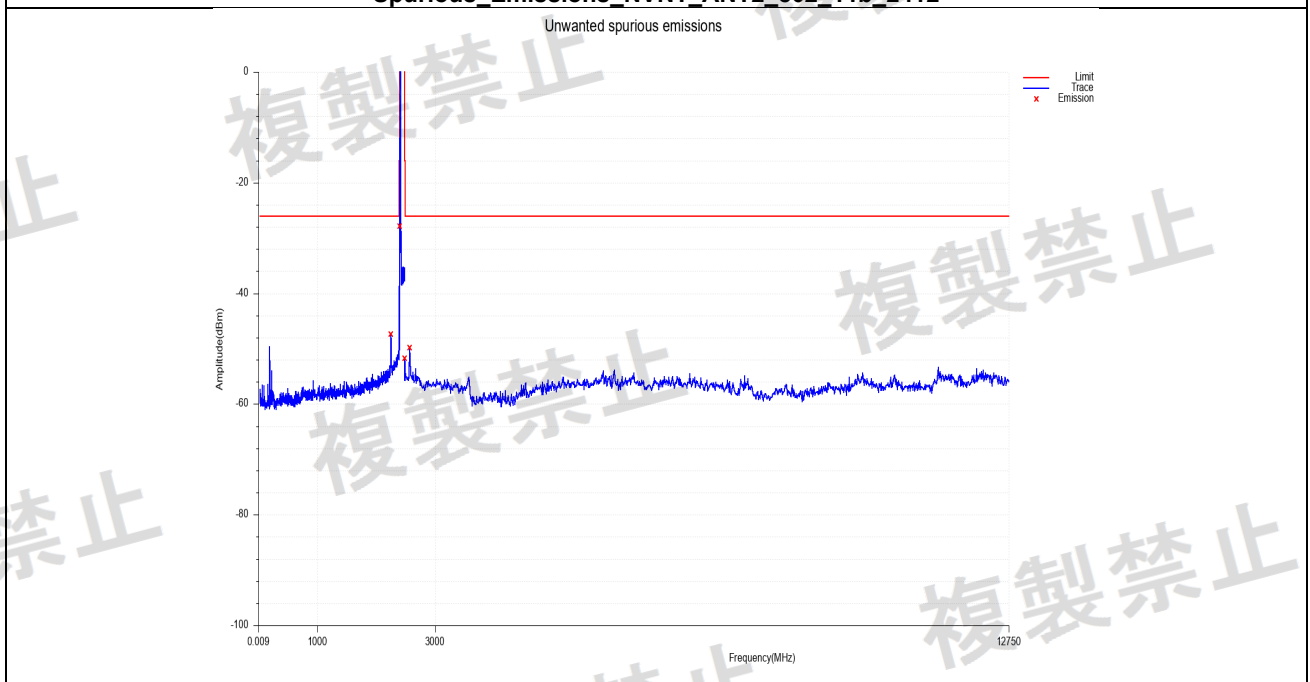


Test Graphs

Spurious Emissions_NVNT_ANT1_802_11b_2412



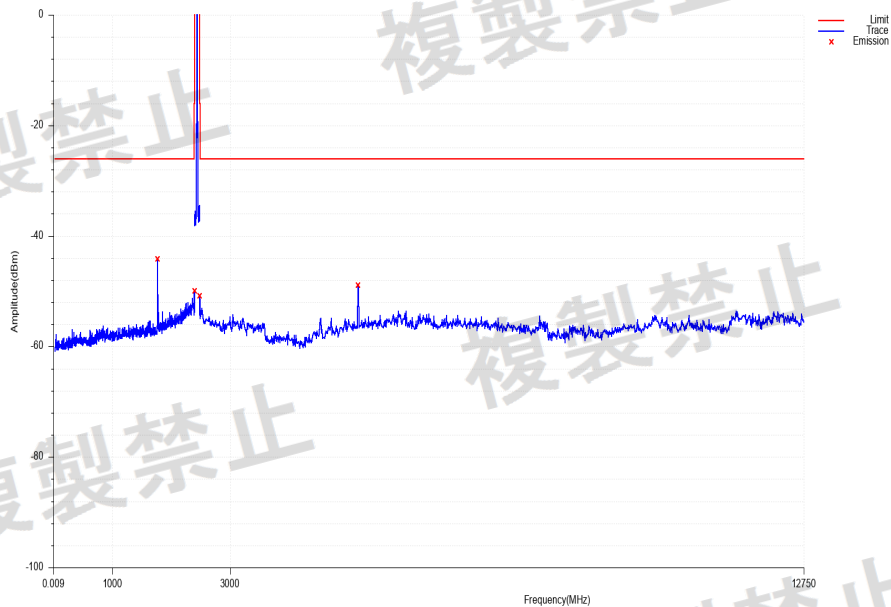
Spurious Emissions_NVNT_ANT2_802_11b_2412





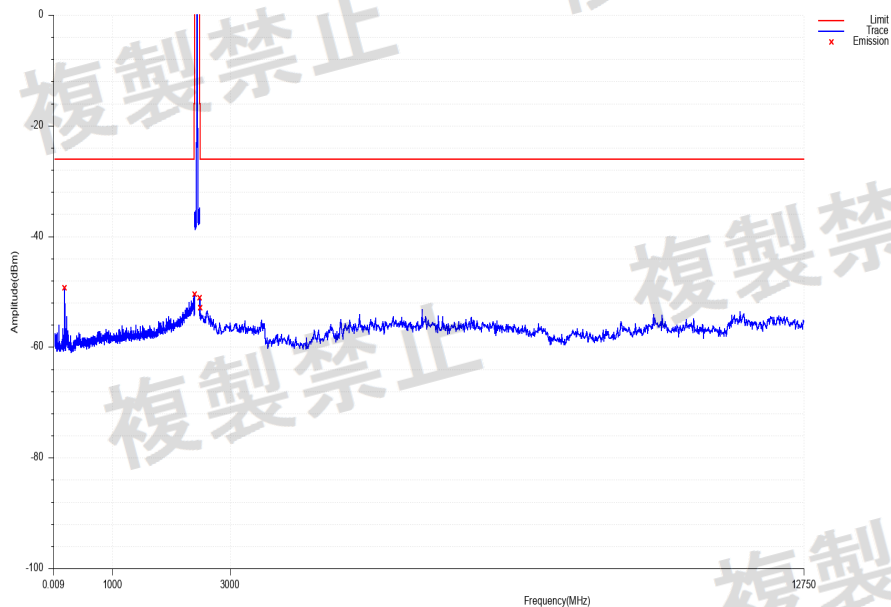
Spurious Emissions_NVNT_ANT1_802_11b_2442

Unwanted spurious emissions



Spurious Emissions_NVNT_ANT2_802_11b_2442

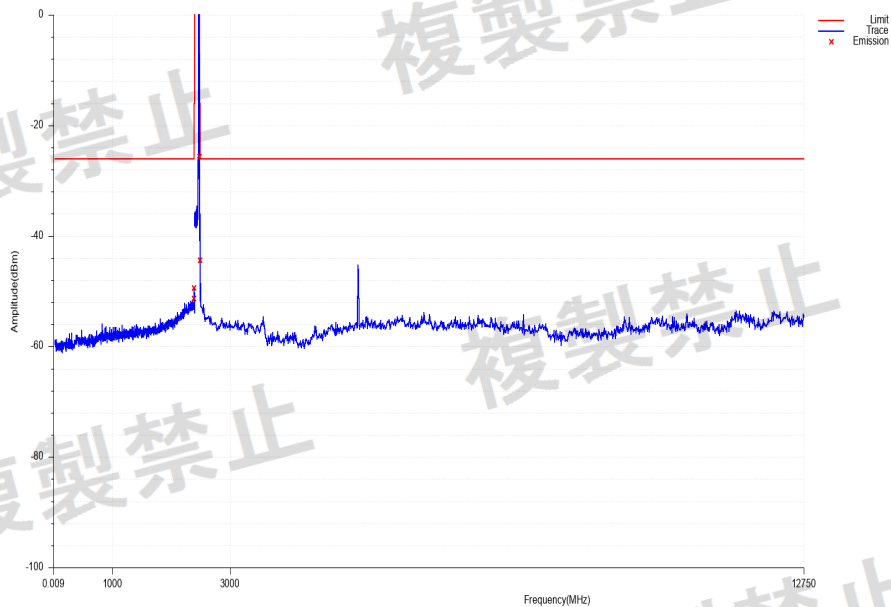
Unwanted spurious emissions





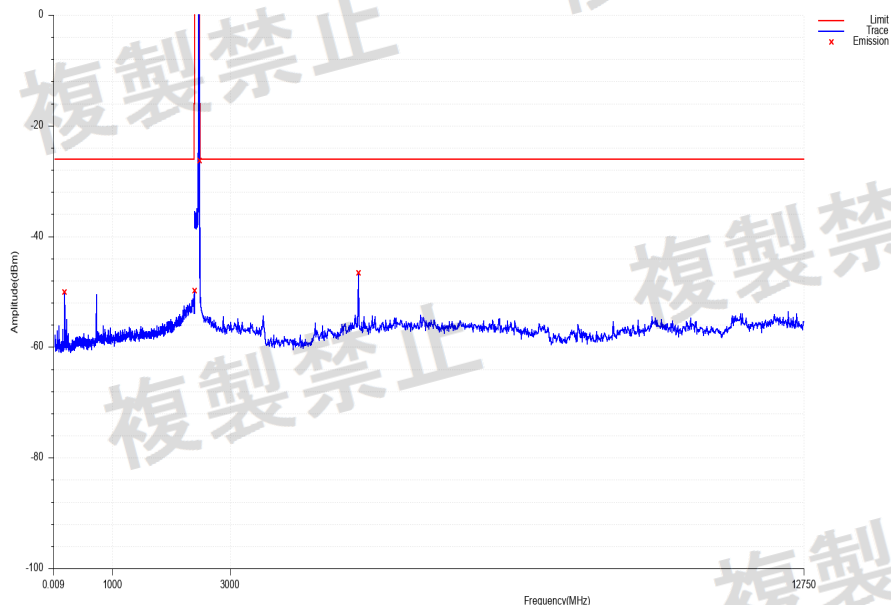
Spurious Emissions_NVNT_ANT1_802_11b_2472

Unwanted spurious emissions



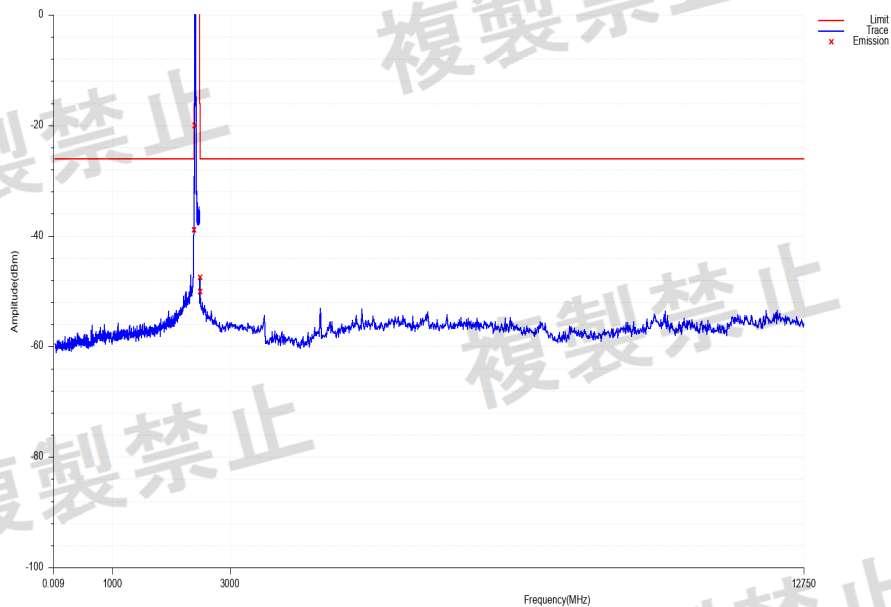
Spurious Emissions_NVNT_ANT2_802_11b_2472

Unwanted spurious emissions

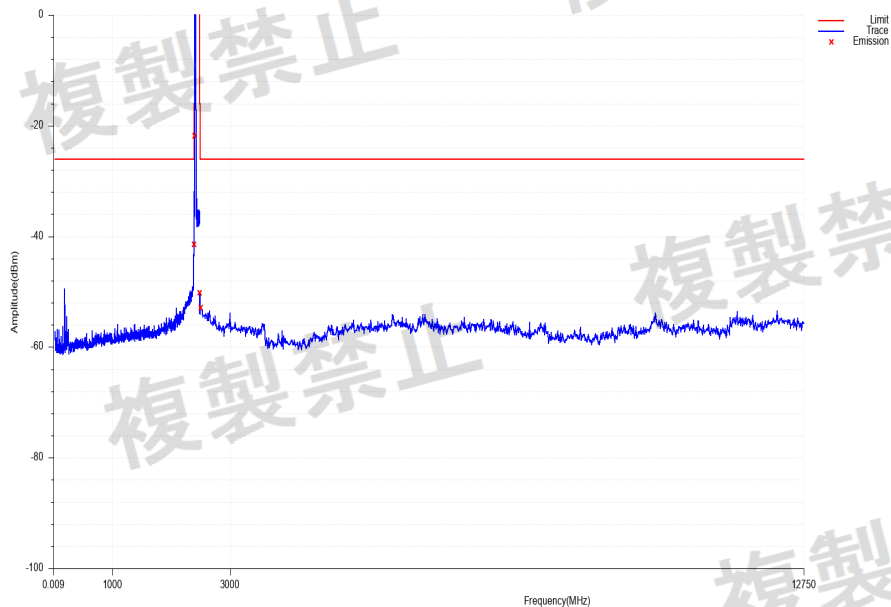


**Spurious Emissions_NVNT_ANT1_802_11g_2412**

Unwanted spurious emissions

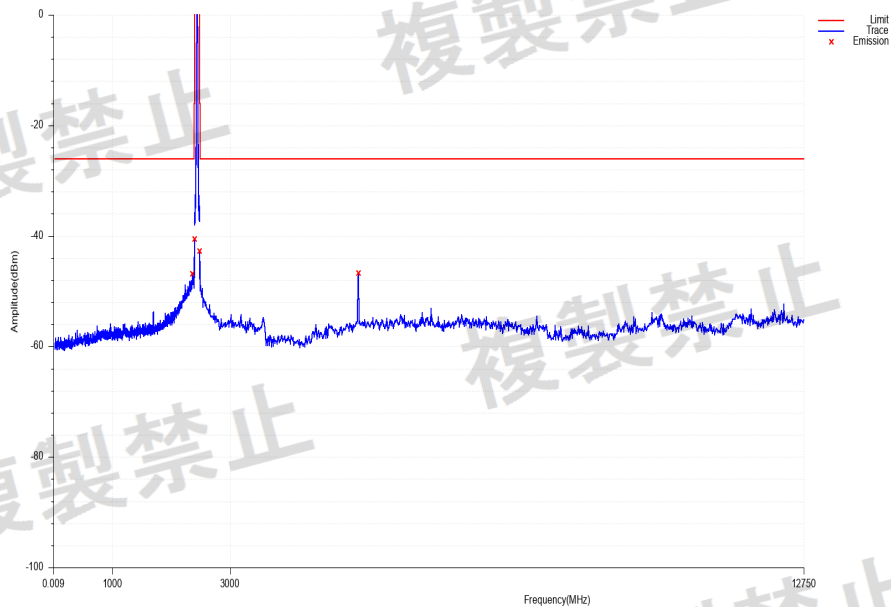
**Spurious Emissions_NVNT_ANT2_802_11g_2412**

Unwanted spurious emissions

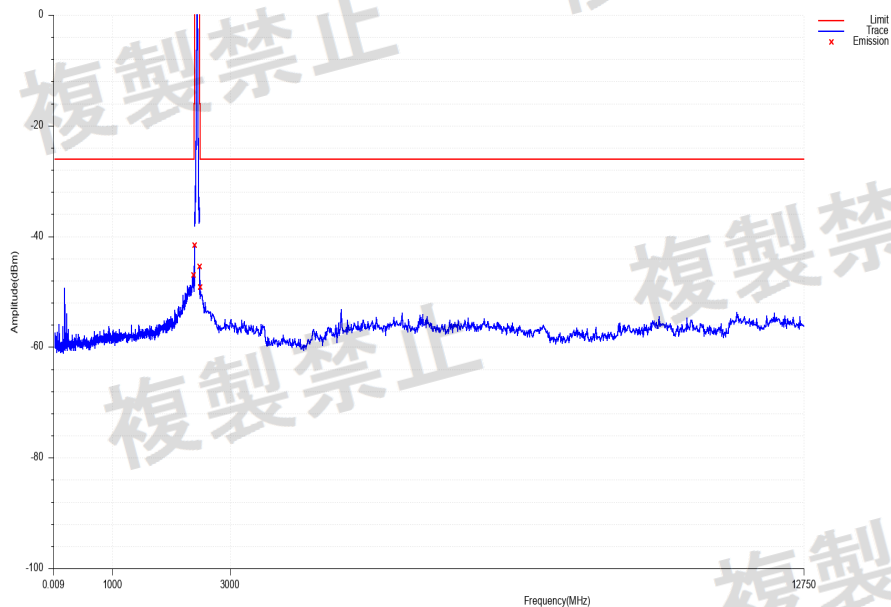


**Spurious Emissions_NVNT_ANT1_802_11g_2442**

Unwanted spurious emissions

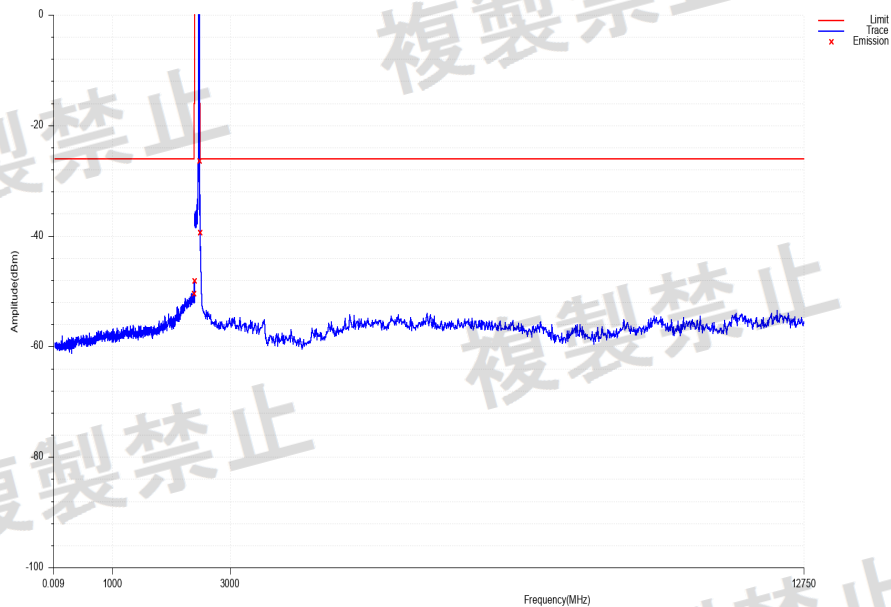
**Spurious Emissions_NVNT_ANT2_802_11g_2442**

Unwanted spurious emissions



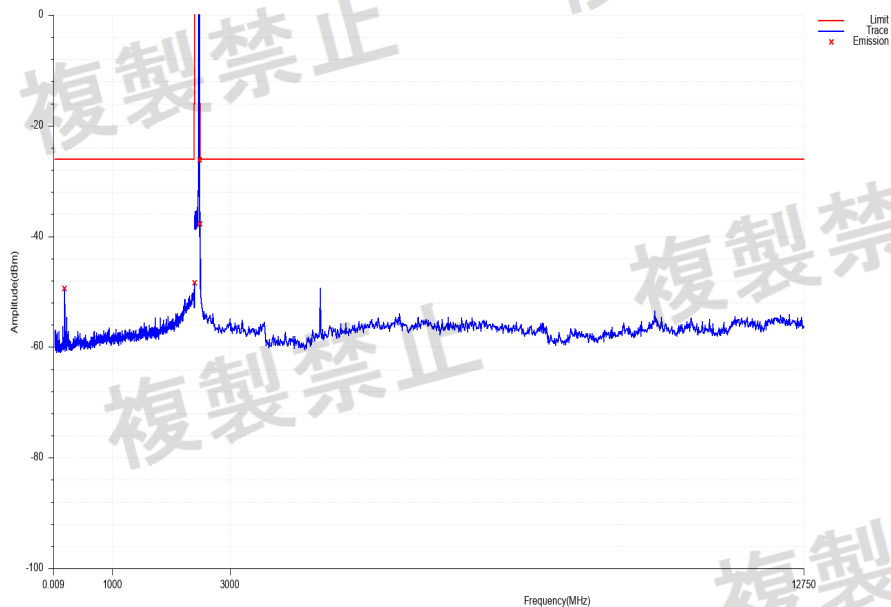
Spurious Emissions_NVNT_ANT1_802_11g_2472

Unwanted spurious emissions



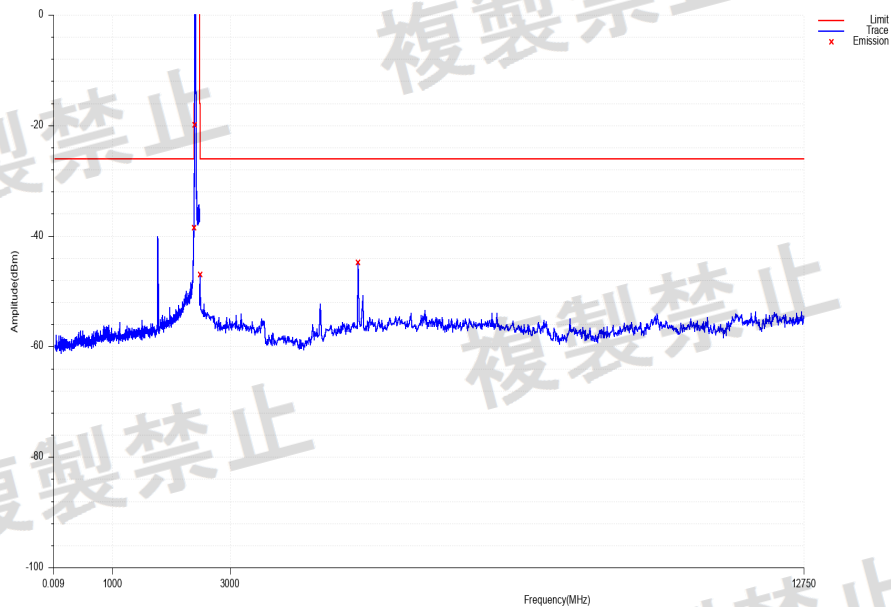
Spurious Emissions_NVNT_ANT2_802_11g_2472

Unwanted spurious emissions

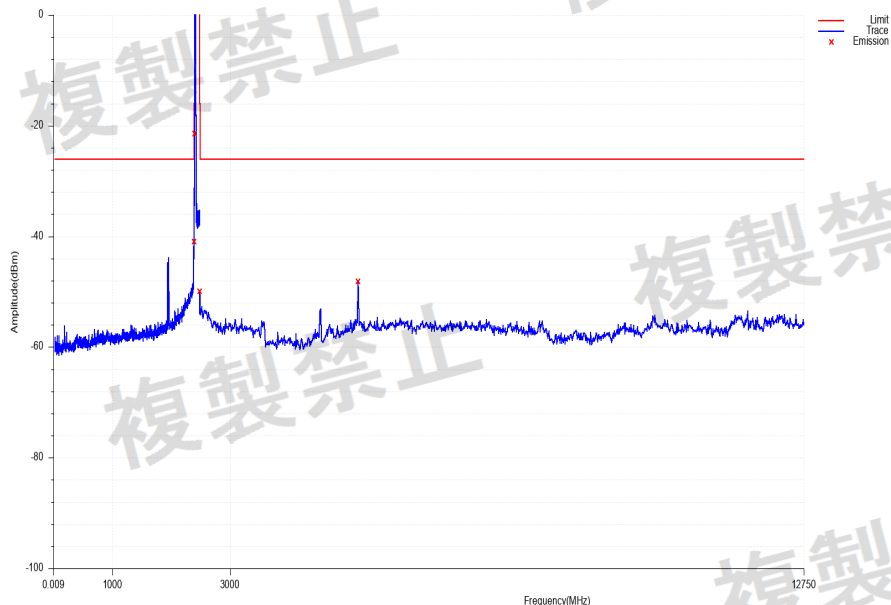


**Spurious_Emissions_NVNT_ANT1_802_11n(HT20)_2412**

Unwanted spurious emissions

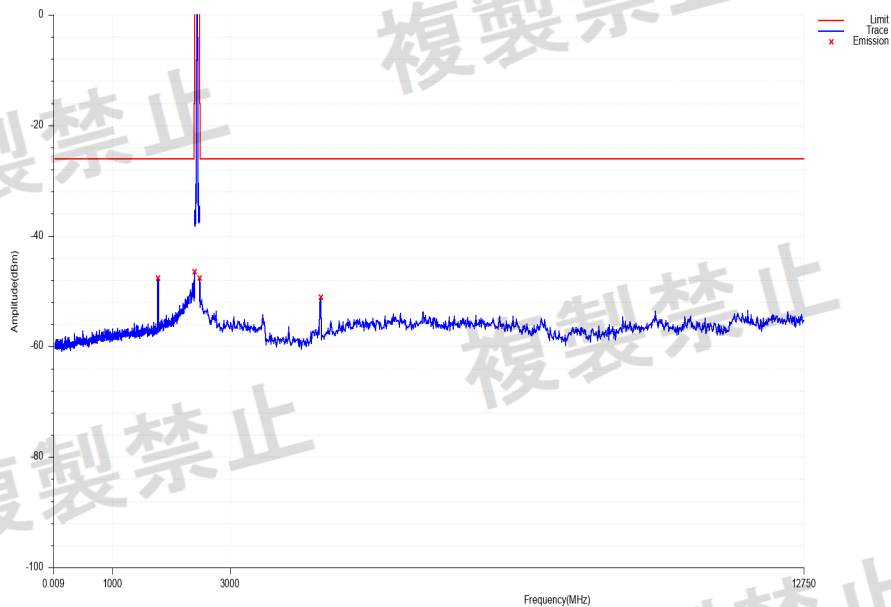
**Spurious_Emissions_NVNT_ANT2_802_11n(HT20)_2412**

Unwanted spurious emissions

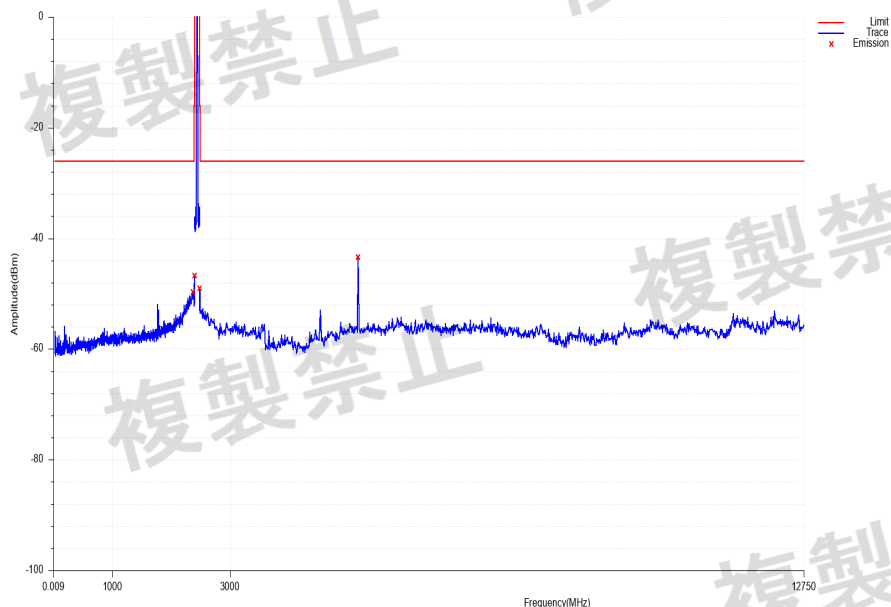


**Spurious Emissions NVNT_ANT1_802_11n(HT20)_2442**

Unwanted spurious emissions

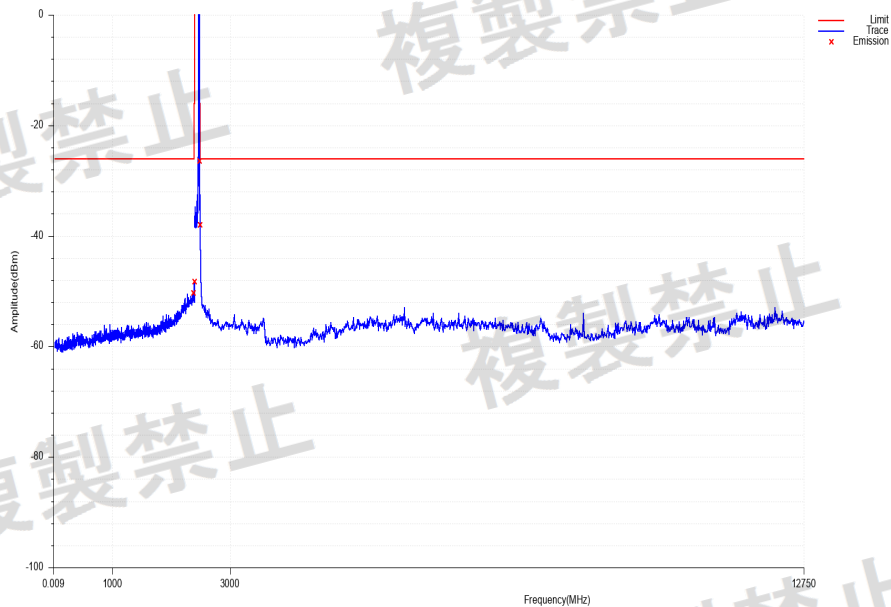
**Spurious Emissions NVNT_ANT2_802_11n(HT20)_2442**

Unwanted spurious emissions

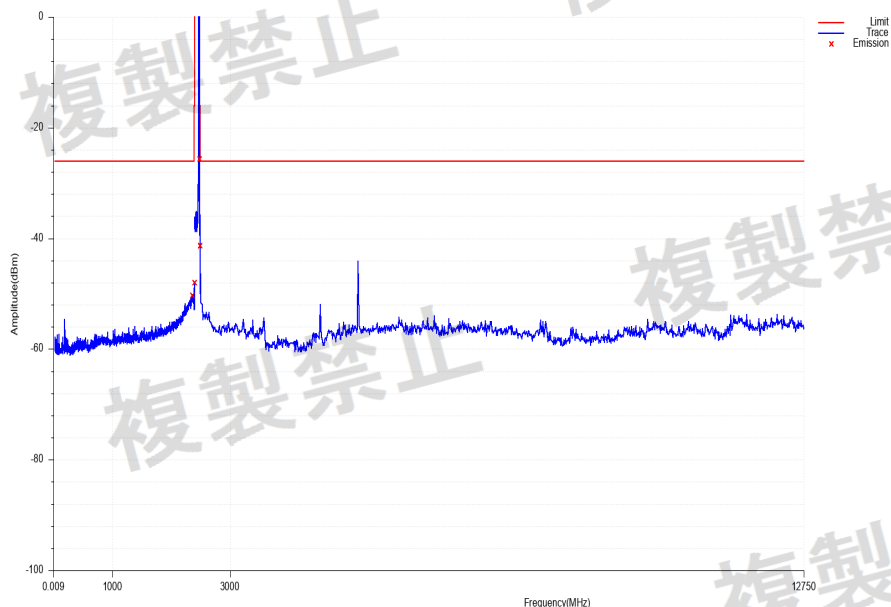


**Spurious_Emissions_NVNT_ANT1_802_11n(HT20)_2472**

Unwanted spurious emissions

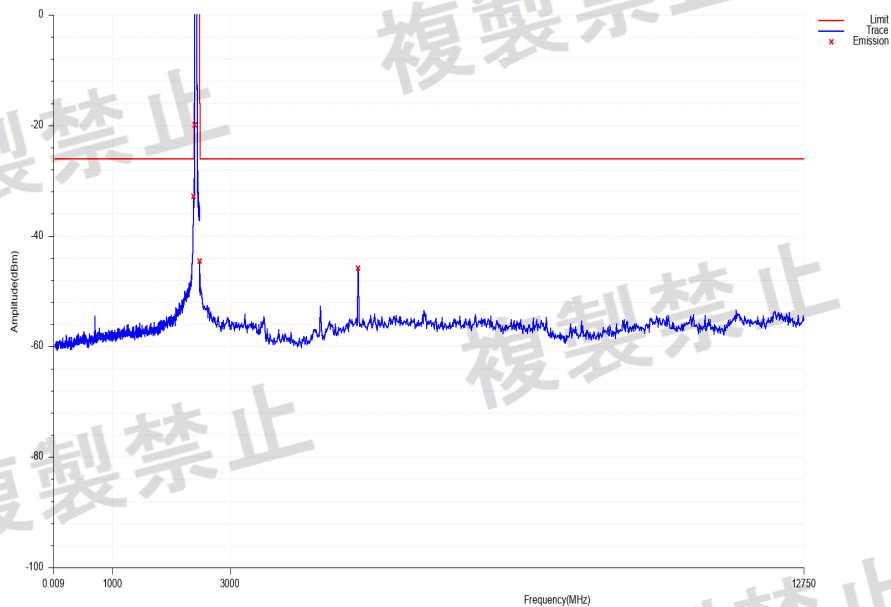
**Spurious_Emissions_NVNT_ANT2_802_11n(HT20)_2472**

Unwanted spurious emissions

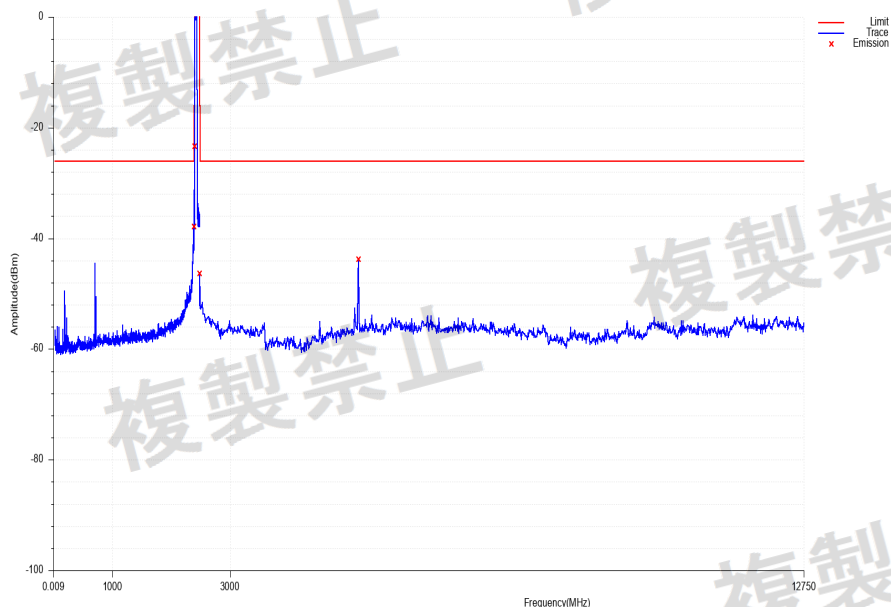


**Spurious_Emissions_NVNT_ANT1_802_11n(HT40)_2422**

Unwanted spurious emissions

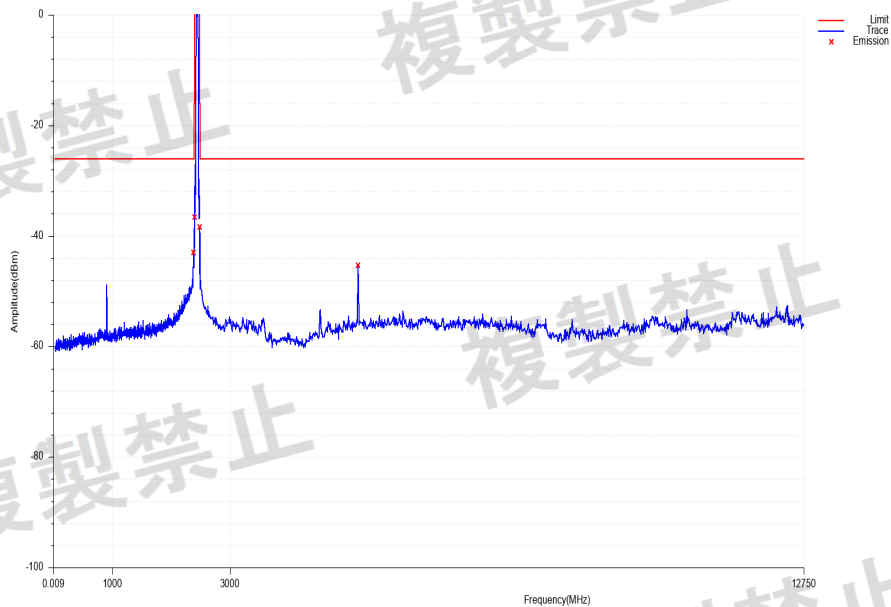
**Spurious_Emissions_NVNT_ANT2_802_11n(HT40)_2422**

Unwanted spurious emissions

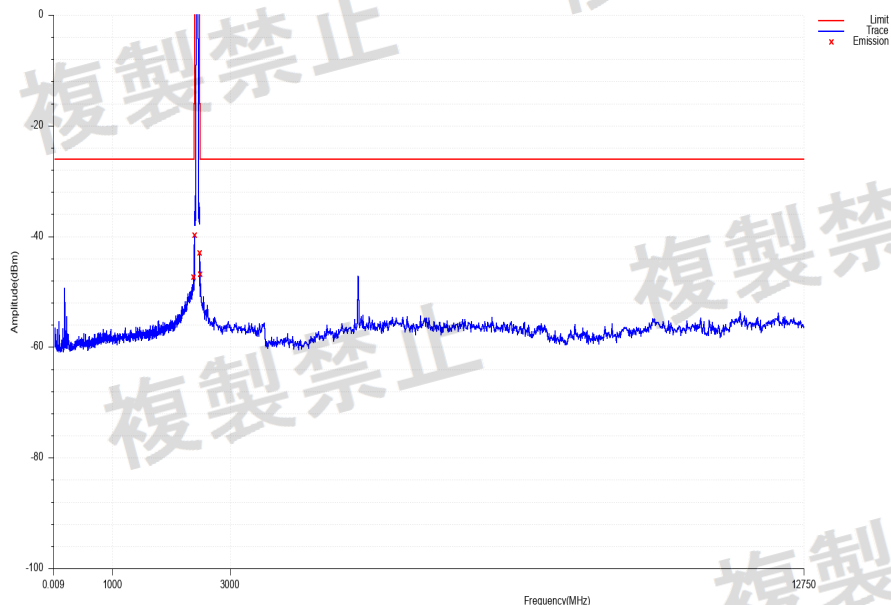


Spurious_Emissions_NVNT_ANT1_802_11n(HT40)_2442

Unwanted spurious emissions

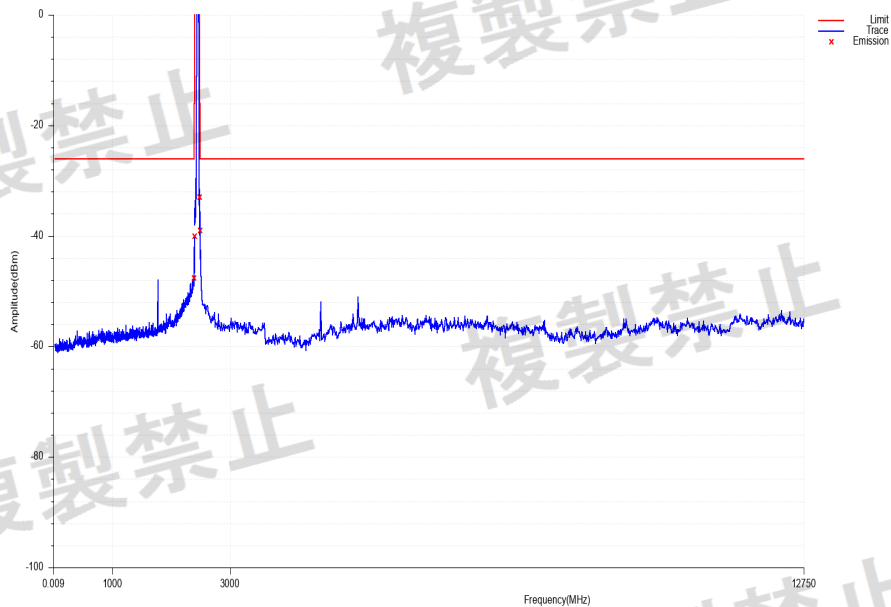
**Spurious_Emissions_NVNT_ANT2_802_11n(HT40)_2442**

Unwanted spurious emissions

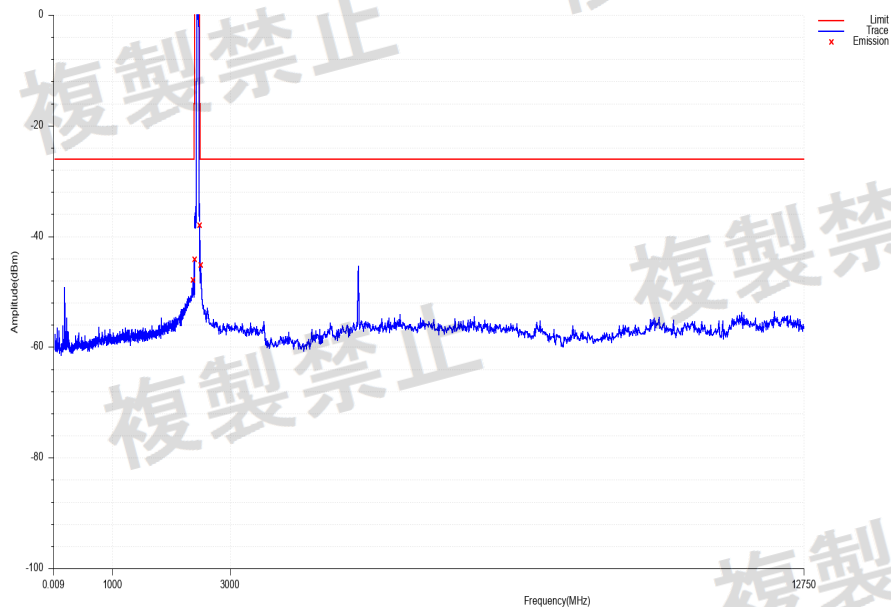


**Spurious_Emissions_NVNT_ANT1_802_11n(HT40)_2462**

Unwanted spurious emissions

**Spurious_Emissions_NVNT_ANT2_802_11n(HT40)_2462**

Unwanted spurious emissions



Appendix A.6: Test Results of Spurious Emissions for Receiver
Test Result

Condition	ANT	Mode	Channel	Range(MHz)	RBW (kHz)	Spur. Freq. (MHz)	Spur. Lev. (dBm)	Spur. Lev. (nW)	Limit (nW)	Over 1/10 Limit	Result
NVNT	ANT1	802.11b	LCH	30.0~1000.0	100	995.15	-87.30	0.0018	4	NO	Pass
NVNT	ANT1	802.11b	LCH	1000.0~12750.0	1000	2433.50	-64.19	0.3811	20	NO	Pass
NVNT	ANT2	802.11b	LCH	30.0~1000.0	100	975.75	-87.26	0.0018	4	NO	Pass
NVNT	ANT2	802.11b	LCH	1000.0~12750.0	1000	5171.25	-71.52	0.0705	20	NO	Pass
NVNT	ANT1	802.11b	MCH	30.0~1000.0	100	986.42	-87.01	0.0019	4	NO	Pass
NVNT	ANT1	802.11b	MCH	1000.0~12750.0	1000	2433.50	-66.26	0.2363	20	NO	Pass
NVNT	ANT2	802.11b	MCH	30.0~1000.0	100	765.26	-87.37	0.0018	4	NO	Pass
NVNT	ANT2	802.11b	MCH	1000.0~12750.0	1000	12432.75	-74.22	0.0378	20	NO	Pass
NVNT	ANT1	802.11b	HCH	30.0~1000.0	100	971.87	-86.76	0.0021	4	NO	Pass
NVNT	ANT1	802.11b	HCH	1000.0~12750.0	1000	2445.25	-65.84	0.2606	20	NO	Pass
NVNT	ANT2	802.11b	HCH	30.0~1000.0	100	953.44	-85.95	0.0025	4	NO	Pass
NVNT	ANT2	802.11b	HCH	1000.0~12750.0	1000	2445.25	-66.33	0.2330	20	NO	Pass
NVNT	ANT1	802.11g	LCH	30.0~1000.0	100	827.34	-86.80	0.0020	4	NO	Pass
NVNT	ANT1	802.11g	LCH	1000.0~12750.0	1000	2433.50	-66.59	0.2194	20	NO	Pass
NVNT	ANT2	802.11g	LCH	30.0~1000.0	100	915.61	-86.71	0.0021	4	NO	Pass
NVNT	ANT2	802.11g	LCH	1000.0~12750.0	1000	2445.25	-66.64	0.2167	20	NO	Pass
NVNT	ANT1	802.11g	MCH	30.0~1000.0	100	995.15	-87.03	0.0019	4	NO	Pass
NVNT	ANT1	802.11g	MCH	1000.0~12750.0	1000	2445.25	-65.41	0.2878	20	NO	Pass
NVNT	ANT2	802.11g	MCH	30.0~1000.0	100	323.91	-88.40	0.0014	4	NO	Pass
NVNT	ANT2	802.11g	MCH	1000.0~12750.0	1000	2445.25	-67.01	0.1988	20	NO	Pass
NVNT	ANT1	802.11g	HCH	30.0~1000.0	100	873.90	-86.02	0.0024	4	NO	Pass
NVNT	ANT1	802.11g	HCH	1000.0~12750.0	1000	2445.25	-68.64	0.1367	20	NO	Pass
NVNT	ANT2	802.11g	HCH	30.0~1000.0	100	779.81	-87.50	0.0017	4	NO	Pass
NVNT	ANT2	802.11g	HCH	1000.0~12750.0	1000	2433.50	-66.37	0.2306	20	NO	Pass
NVNT	ANT1	802.11n(HT20)	LCH	30.0~1000.0	100	768.17	-87.45	0.0017	4	NO	Pass
NVNT	ANT1	802.11n(HT20)	LCH	1000.0~12750.0	1000	2433.50	-64.19	0.3807	20	NO	Pass
NVNT	ANT2	802.11n(HT20)	LCH	30.0~1000.0	100	460.68	-87.09	0.0019	4	NO	Pass
NVNT	ANT2	802.11n(HT20)	LCH	1000.0~12750.0	1000	2445.25	-67.08	0.1957	20	NO	Pass
NVNT	ANT1	802.11n(HT20)	MCH	30.0~1000.0	100	553.80	-87.11	0.0019	4	NO	Pass
NVNT	ANT1	802.11n(HT20)	MCH	1000.0~12750.0	1000	2445.25	-66.39	0.2295	20	NO	Pass
NVNT	ANT2	802.11n(HT20)	MCH	30.0~1000.0	100	759.44	-86.73	0.0021	4	NO	Pass
NVNT	ANT2	802.11n(HT20)	MCH	1000.0~12750.0	1000	3585.00	-73.64	0.0432	20	NO	Pass
NVNT	ANT1	802.11n(HT20)	HCH	30.0~1000.0	100	891.36	-86.85	0.0020	4	NO	Pass
NVNT	ANT1	802.11n(HT20)	HCH	1000.0~12750.0	1000	2433.50	-69.11	0.1227	20	NO	Pass
NVNT	ANT2	802.11n(HT20)	HCH	30.0~1000.0	100	917.55	-86.51	0.0022	4	NO	Pass
NVNT	ANT2	802.11n(HT20)	HCH	1000.0~12750.0	1000	5183.00	-66.23	0.2384	20	NO	Pass
NVNT	ANT1	802.11n(HT40)	LCH	30.0~1000.0	100	942.77	-86.80	0.0020	4	NO	Pass
NVNT	ANT1	802.11n(HT40)	LCH	1000.0~12750.0	1000	3502.75	-58.35	1.4621	20	NO	Pass
NVNT	ANT2	802.11n(HT40)	LCH	30.0~1000.0	100	760.41	-87.23	0.0018	4	NO	Pass
NVNT	ANT2	802.11n(HT40)	LCH	1000.0~12750.0	1000	2445.25	-67.10	0.1949	20	NO	Pass
NVNT	ANT1	802.11n(HT40)	MCH	30.0~1000.0	100	909.79	-86.96	0.0020	4	NO	Pass
NVNT	ANT1	802.11n(HT40)	MCH	1000.0~12750.0	1000	2433.50	-64.23	0.3777	20	NO	Pass
NVNT	ANT2	802.11n(HT40)	MCH	30.0~1000.0	100	823.46	-87.44	0.0018	4	NO	Pass
NVNT	ANT2	802.11n(HT40)	MCH	1000.0~12750.0	1000	2433.50	-65.94	0.2549	20	NO	Pass
NVNT	ANT1	802.11n(HT40)	HCH	30.0~1000.0	100	911.73	-87.57	0.0017	4	NO	Pass
NVNT	ANT1	802.11n(HT40)	HCH	1000.0~12750.0	1000	2445.25	-67.46	0.1796	20	NO	Pass
NVNT	ANT2	802.11n(HT40)	HCH	30.0~1000.0	100	954.41	-87.26	0.0018	4	NO	Pass
NVNT	ANT2	802.11n(HT40)	HCH	1000.0~12750.0	1000	2445.25	-66.60	0.2187	20	NO	Pass

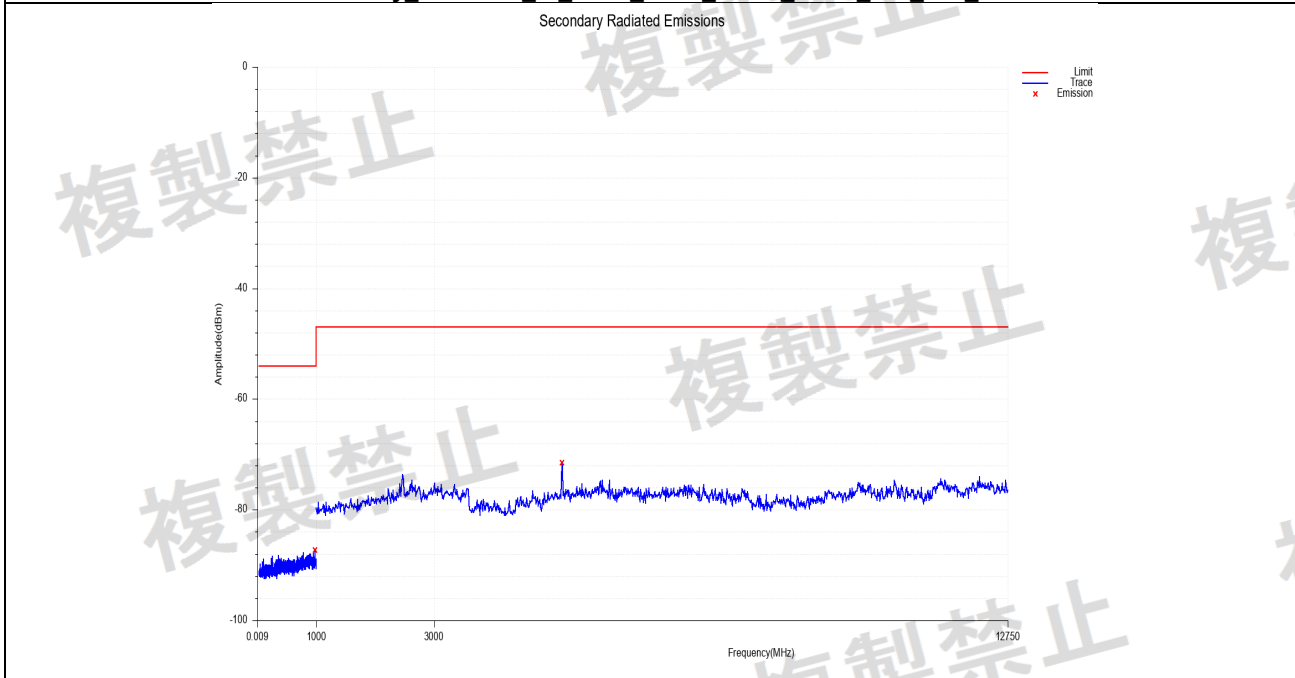
MOMO Mode(1/2 Limit)

ANT	Mode	Channel	Range(MHz)	RBW (kHz)	Spur. Freq. (MHz)	Spur. Lev. (dBm)	Spur. Lev (nW)	Limit (nW)	1/2 Limit (nW)	Result
ANT1	802.11n(HT20)	LCH	30.0~1000.0	100	963.14	-87.13	0.0019	4	2	Pass
ANT1	802.11n(HT20)	LCH	1000.0~12750.0	1000	2457.00	-69.45	0.1135	20	10	Pass
ANT2	802.11n(HT20)	LCH	30.0~1000.0	100	191.99	-60.49	0.8923	4	2	Pass
ANT2	802.11n(HT20)	LCH	1000.0~12750.0	1000	2468.75	-73.14	0.0485	20	10	Pass
ANT1	802.11n(HT20)	MCH	30.0~1000.0	100	954.41	-87.54	0.0017	4	2	Pass
ANT1	802.11n(HT20)	MCH	1000.0~12750.0	1000	11786.50	-74.02	0.0396	20	10	Pass
ANT2	802.11n(HT20)	MCH	30.0~1000.0	100	191.99	-60.47	0.8968	4	2	Pass
ANT2	802.11n(HT20)	MCH	1000.0~12750.0	1000	2457.00	-67.70	0.1698	20	10	Pass
ANT1	802.11n(HT20)	HCH	30.0~1000.0	100	758.47	-87.29	0.0018	4	2	Pass
ANT1	802.11n(HT20)	HCH	1000.0~12750.0	1000	2468.75	-70.13	0.0971	20	10	Pass
ANT2	802.11n(HT20)	HCH	30.0~1000.0	100	191.99	-60.50	0.8917	4	2	Pass
ANT2	802.11n(HT20)	HCH	1000.0~12750.0	1000	2457.00	-68.36	0.1459	20	10	Pass
ANT1	802.11n(HT40)	LCH	30.0~1000.0	100	942.77	-86.80	0.0020	4	2	Pass
ANT1	802.11n(HT40)	LCH	1000.0~12750.0	1000	3502.75	-58.35	1.4621	20	10	Pass
ANT2	802.11n(HT40)	LCH	30.0~1000.0	100	760.41	-87.23	0.0018	4	2	Pass
ANT2	802.11n(HT40)	LCH	1000.0~12750.0	1000	2445.25	-67.10	0.1949	20	10	Pass
ANT1	802.11n(HT40)	MCH	30.0~1000.0	100	909.79	-86.96	0.0020	4	2	Pass
ANT1	802.11n(HT40)	MCH	1000.0~12750.0	1000	2433.50	-64.23	0.3777	20	10	Pass
ANT2	802.11n(HT40)	MCH	30.0~1000.0	100	823.46	-87.44	0.0018	4	2	Pass
ANT2	802.11n(HT40)	MCH	1000.0~12750.0	1000	2433.50	-65.94	0.2549	20	10	Pass
ANT1	802.11n(HT40)	HCH	30.0~1000.0	100	911.73	-87.57	0.0017	4	2	Pass
ANT1	802.11n(HT40)	HCH	1000.0~12750.0	1000	2445.25	-67.46	0.1796	20	10	Pass
ANT2	802.11n(HT40)	HCH	30.0~1000.0	100	954.41	-87.26	0.0018	4	2	Pass
ANT2	802.11n(HT40)	HCH	1000.0~12750.0	1000	2445.25	-66.60	0.2187	20	10	Pass

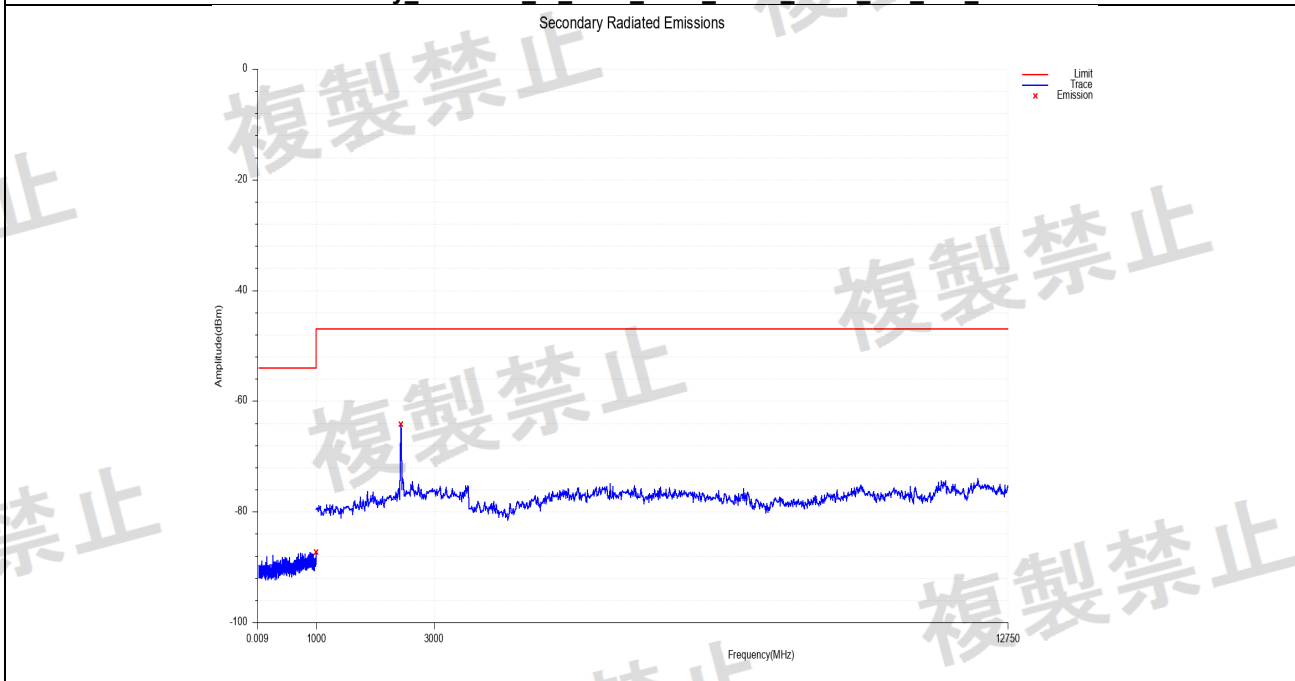


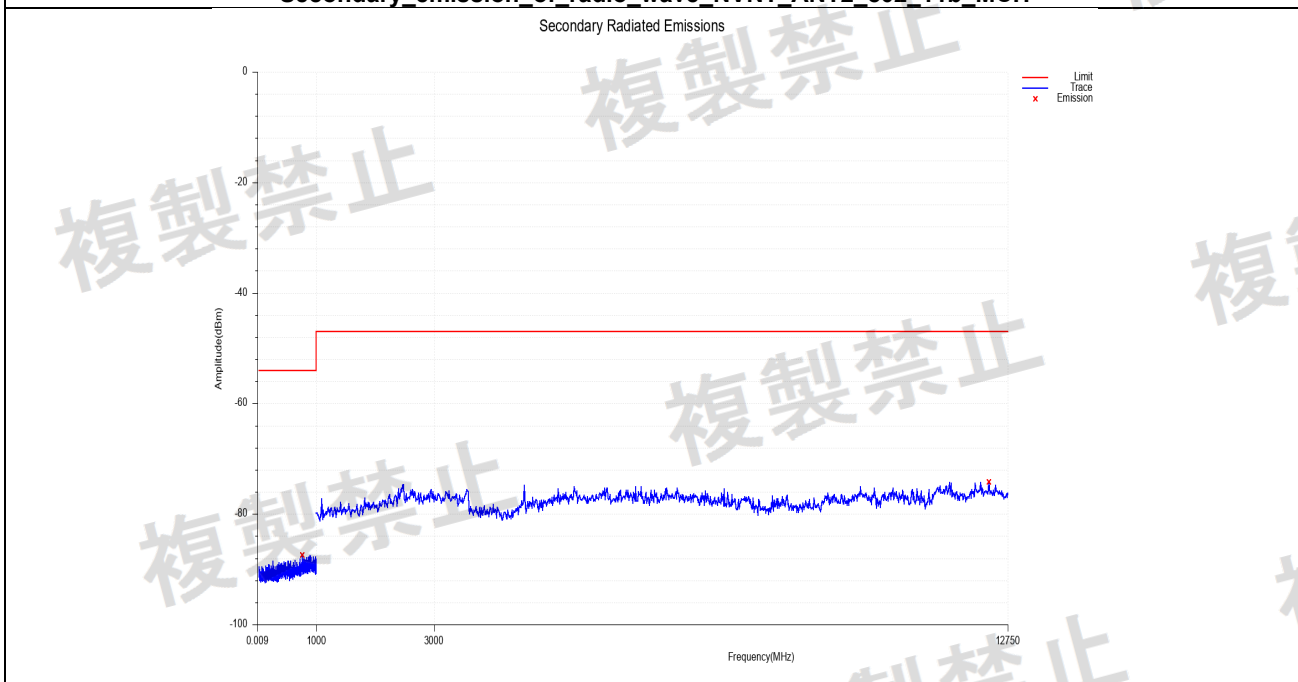
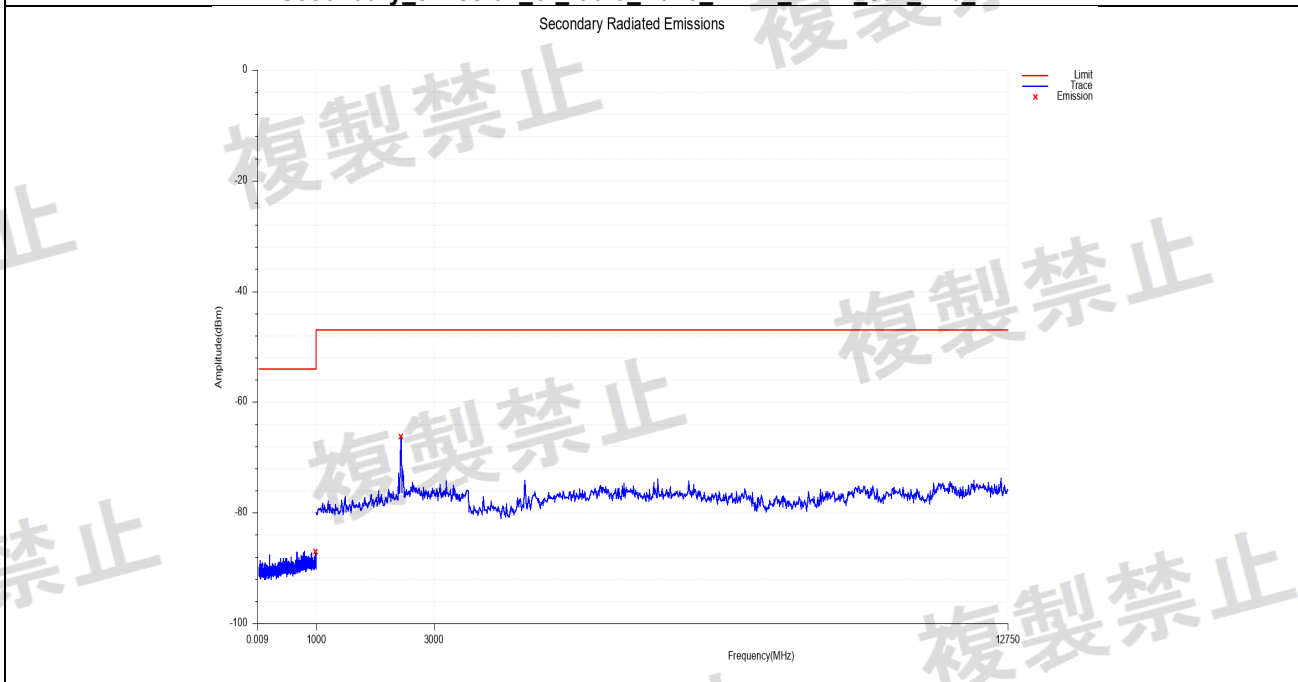
Test Graphs

Secondary emission of radio wave NVNT ANT2 802 11b LCH



Secondary emission of radio wave NVNT ANT1 802 11b LCH

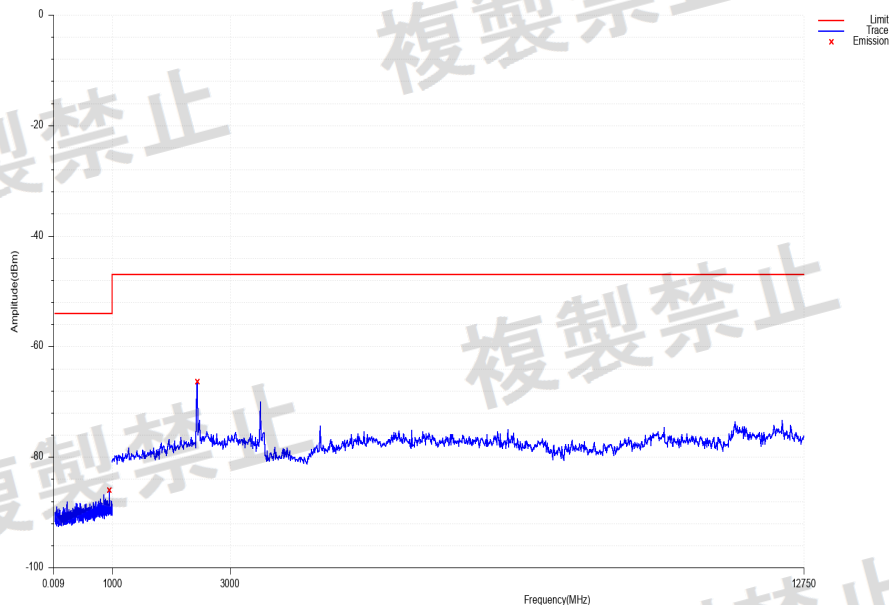


**Secondary emission of radio wave NVNT ANT2 802 11b MCH****Secondary emission of radio wave NVNT ANT1 802 11b MCH**



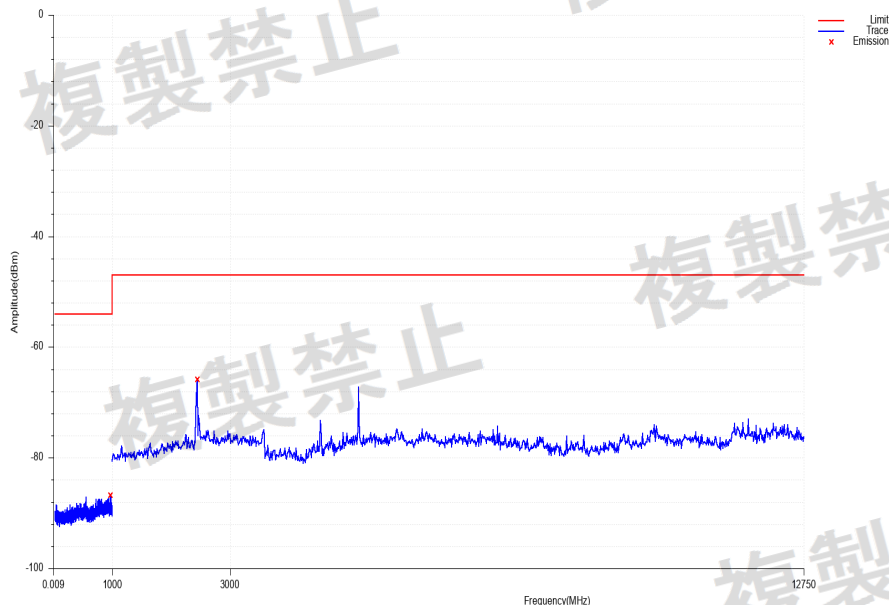
Secondary emission of radio wave NVNT ANT2 802 11b HCH

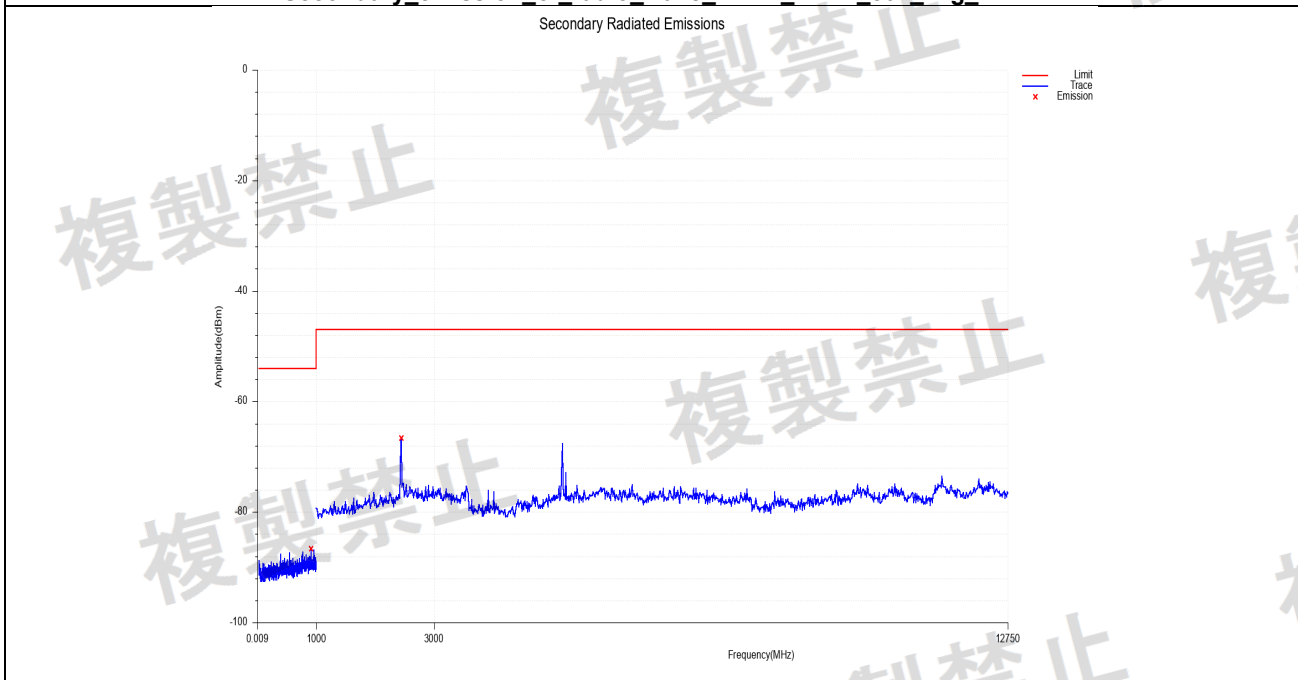
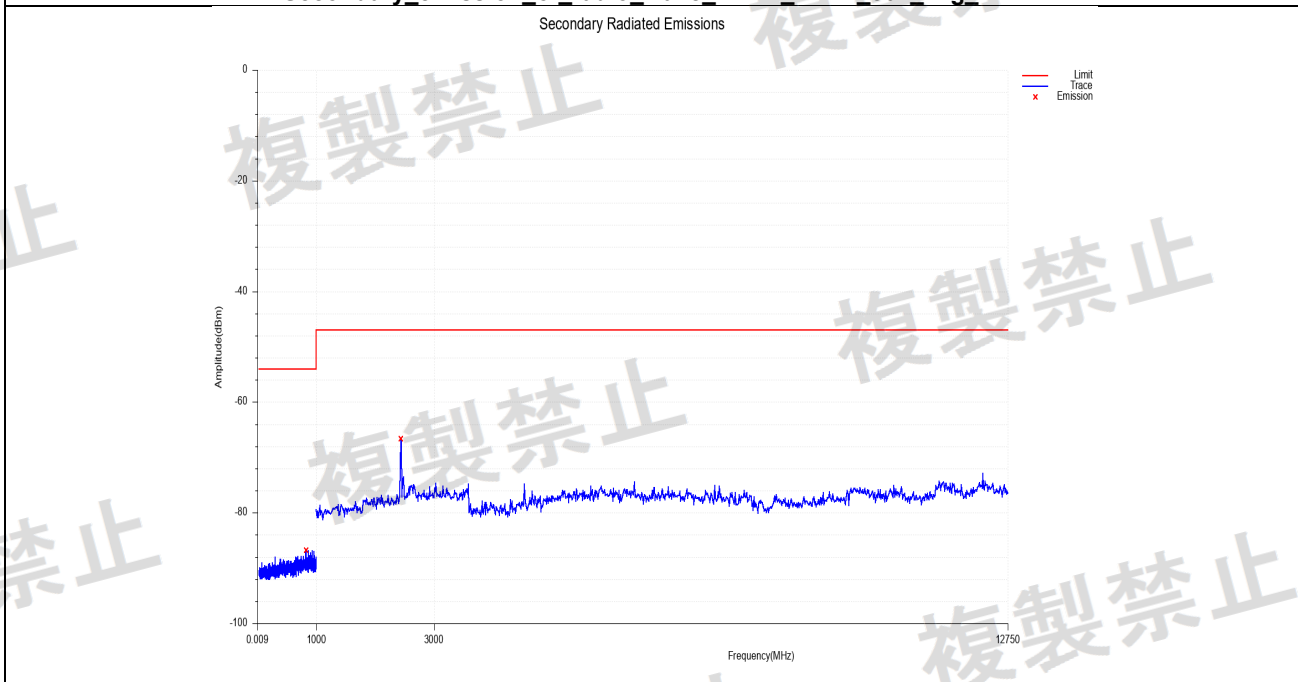
Secondary Radiated Emissions

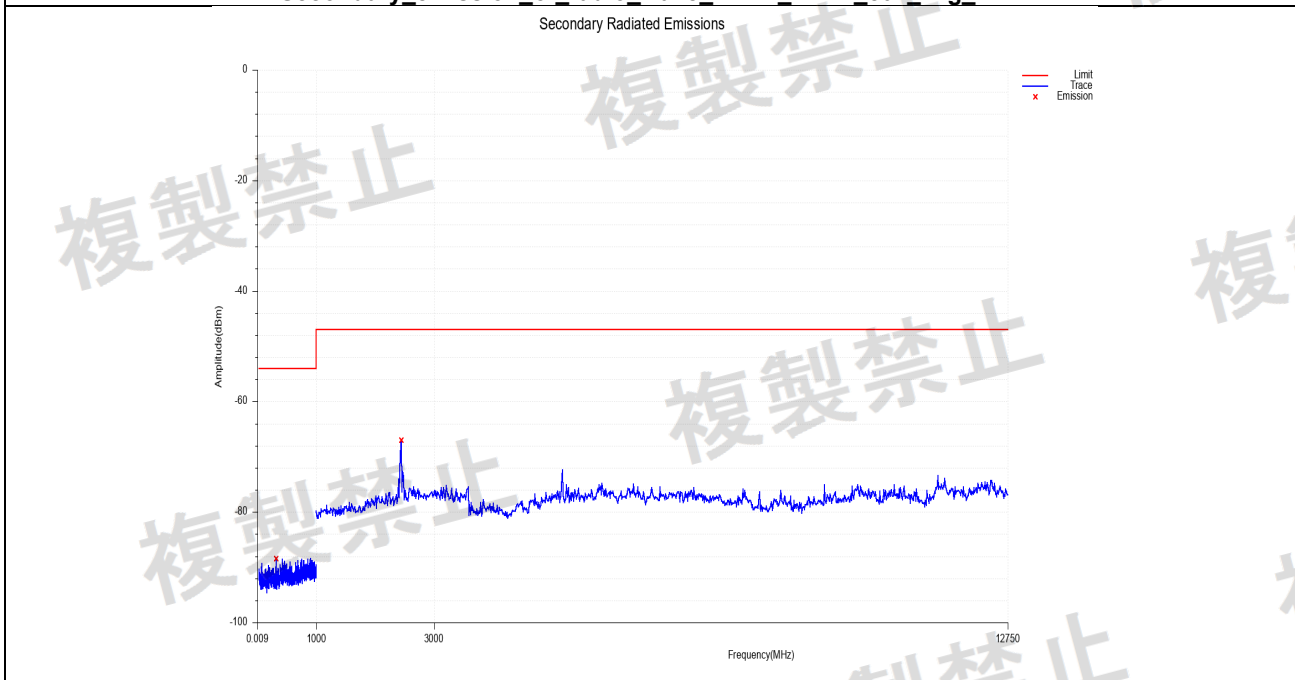
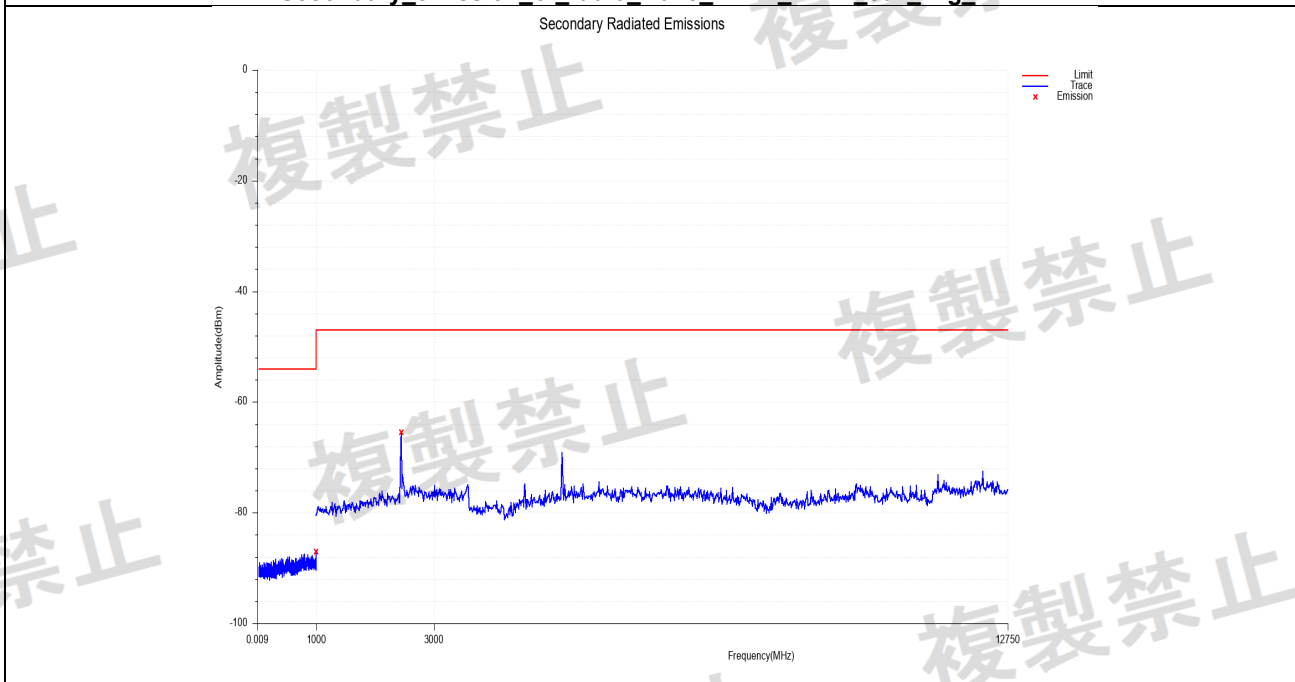


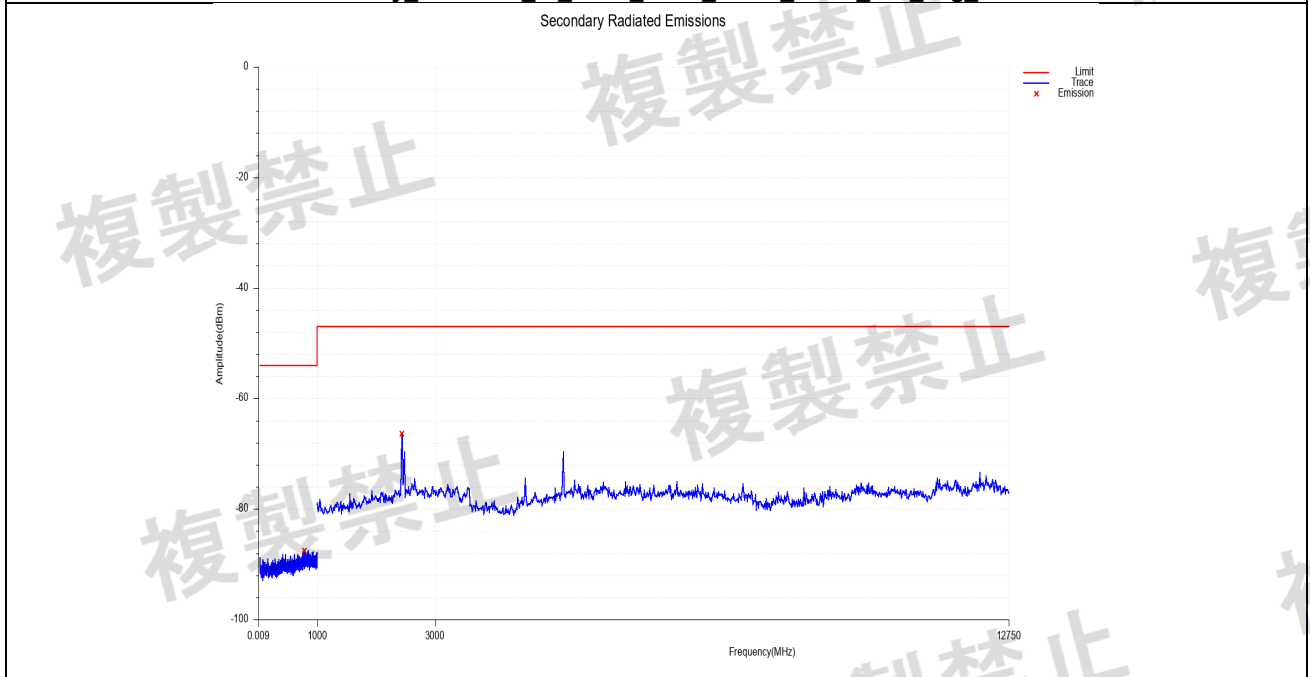
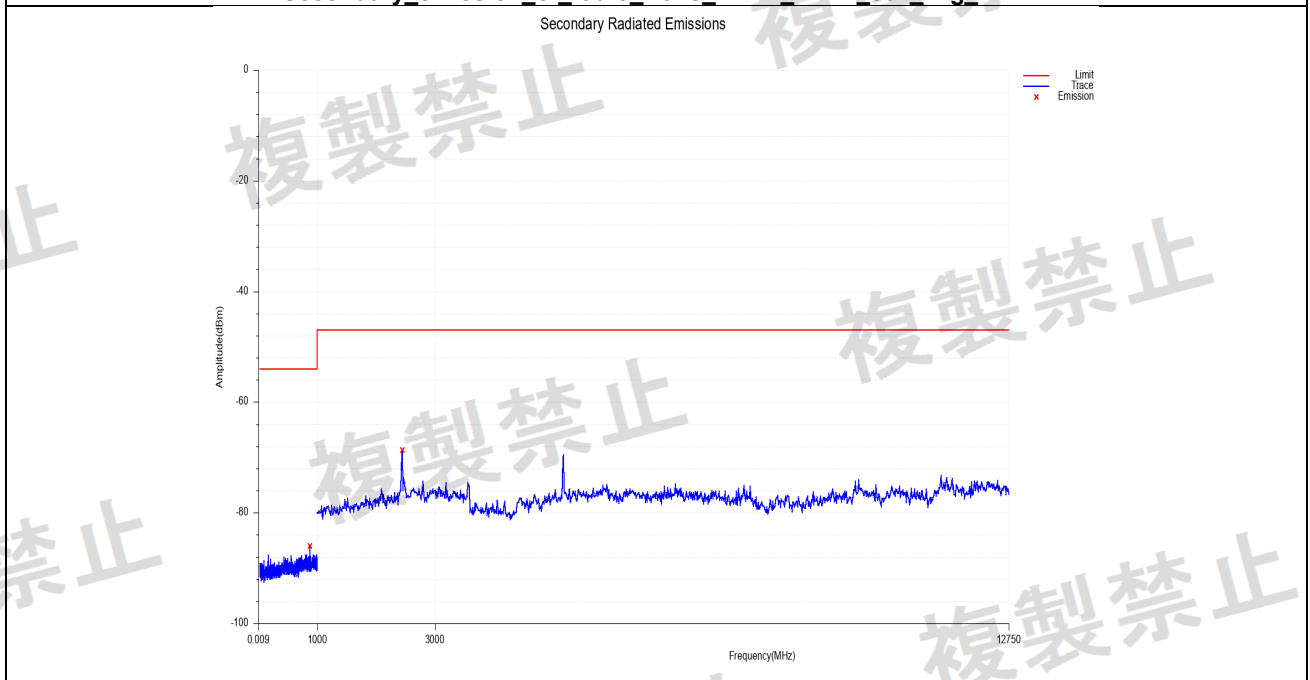
Secondary emission of radio wave NVNT ANT1 802 11b HCH

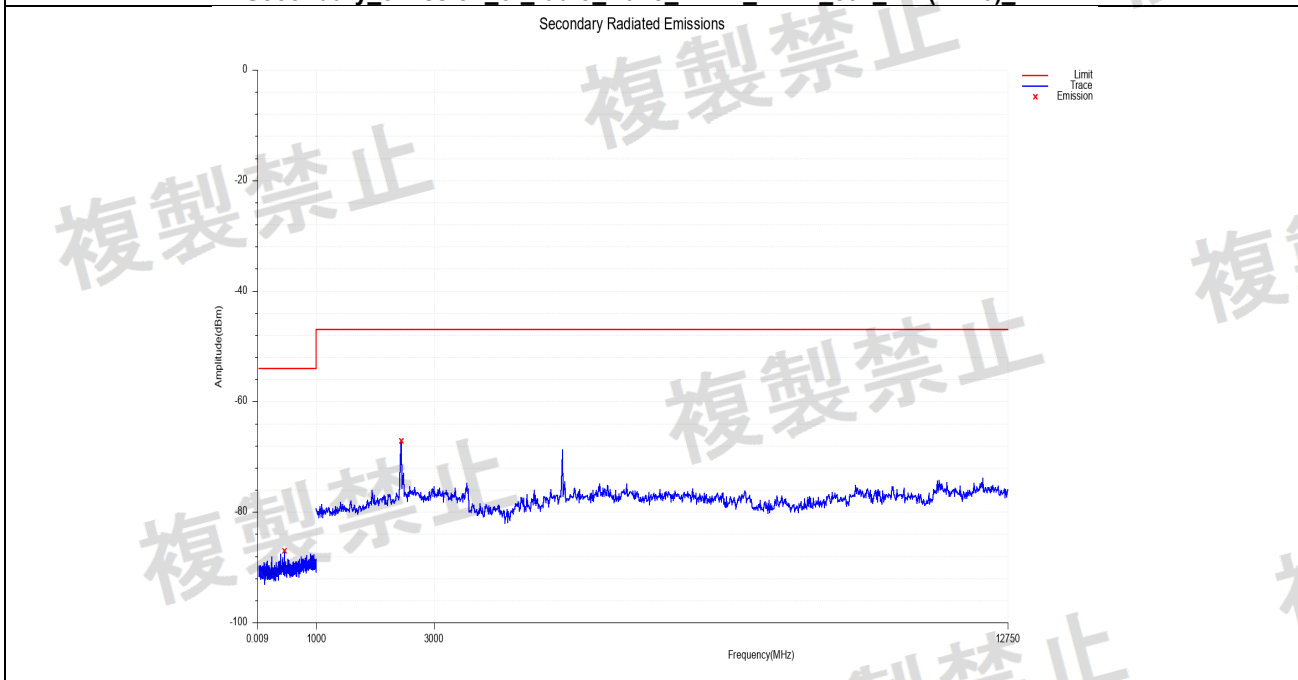
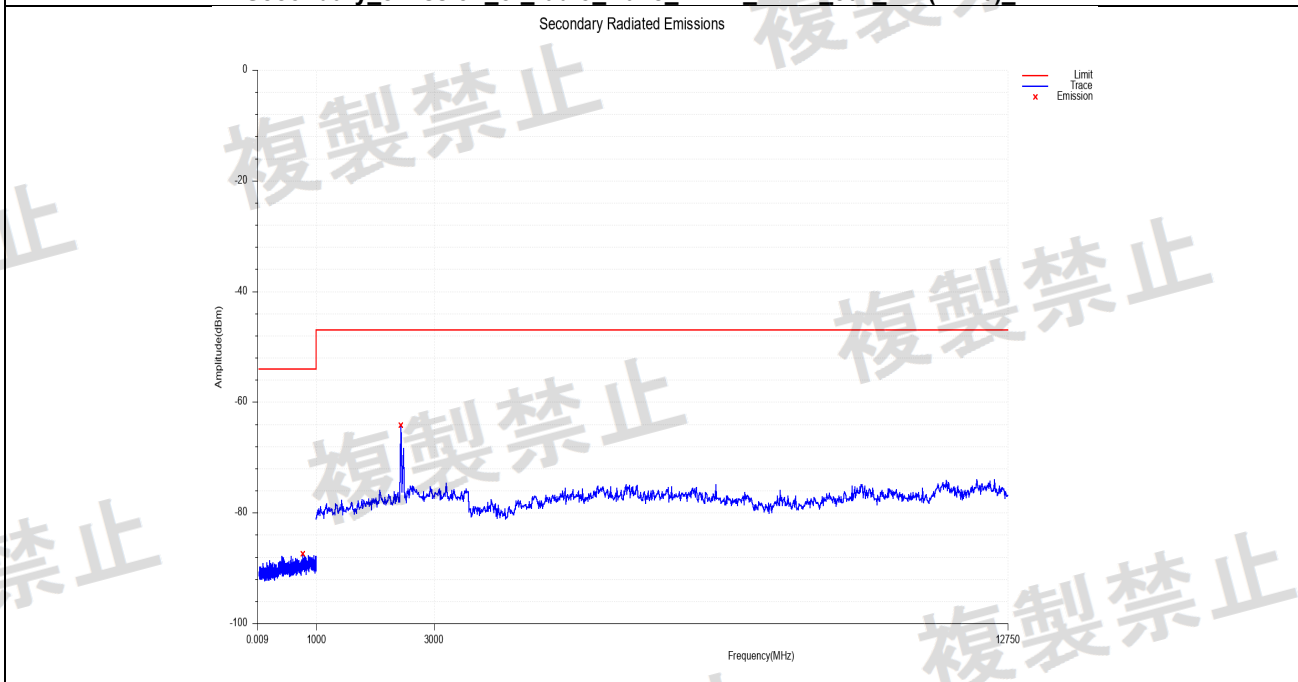
Secondary Radiated Emissions

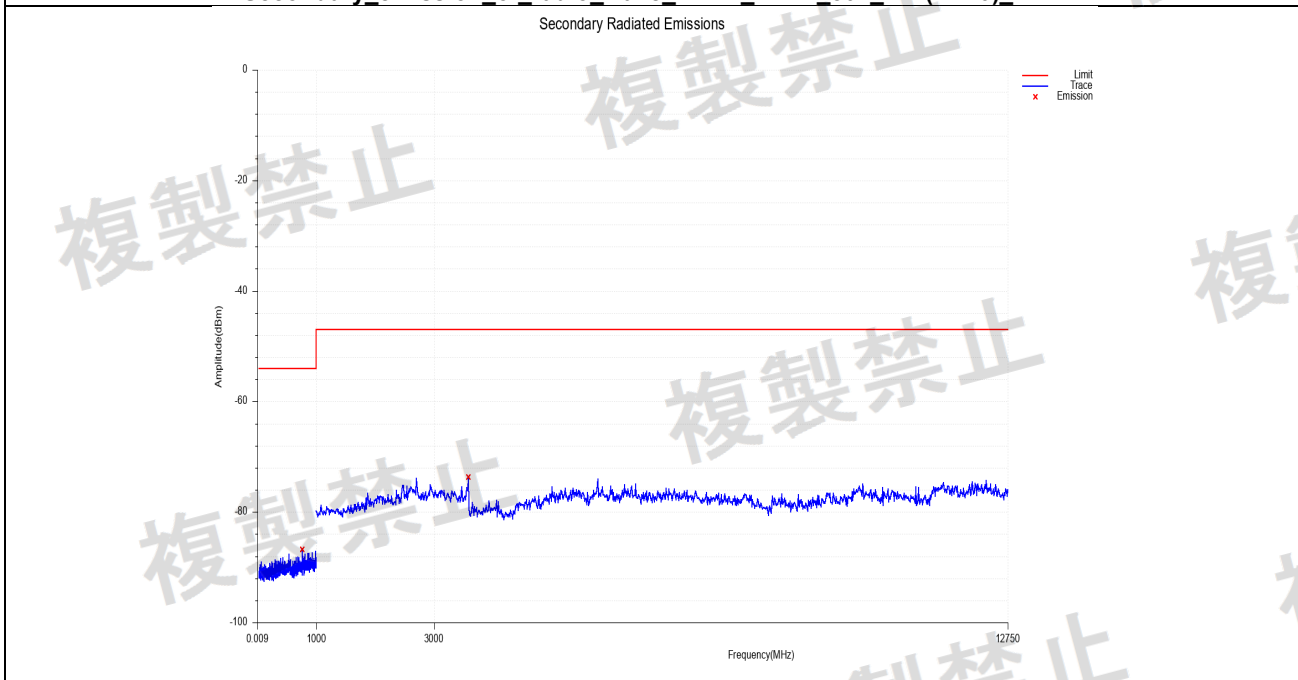
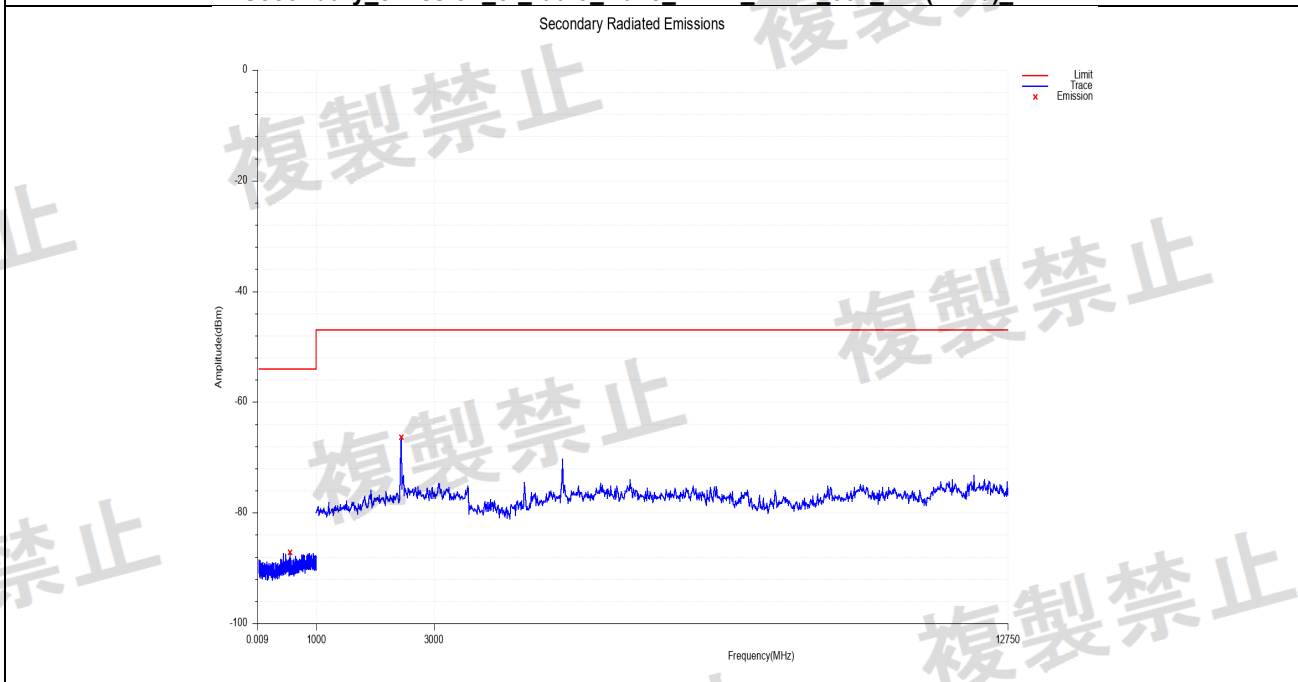


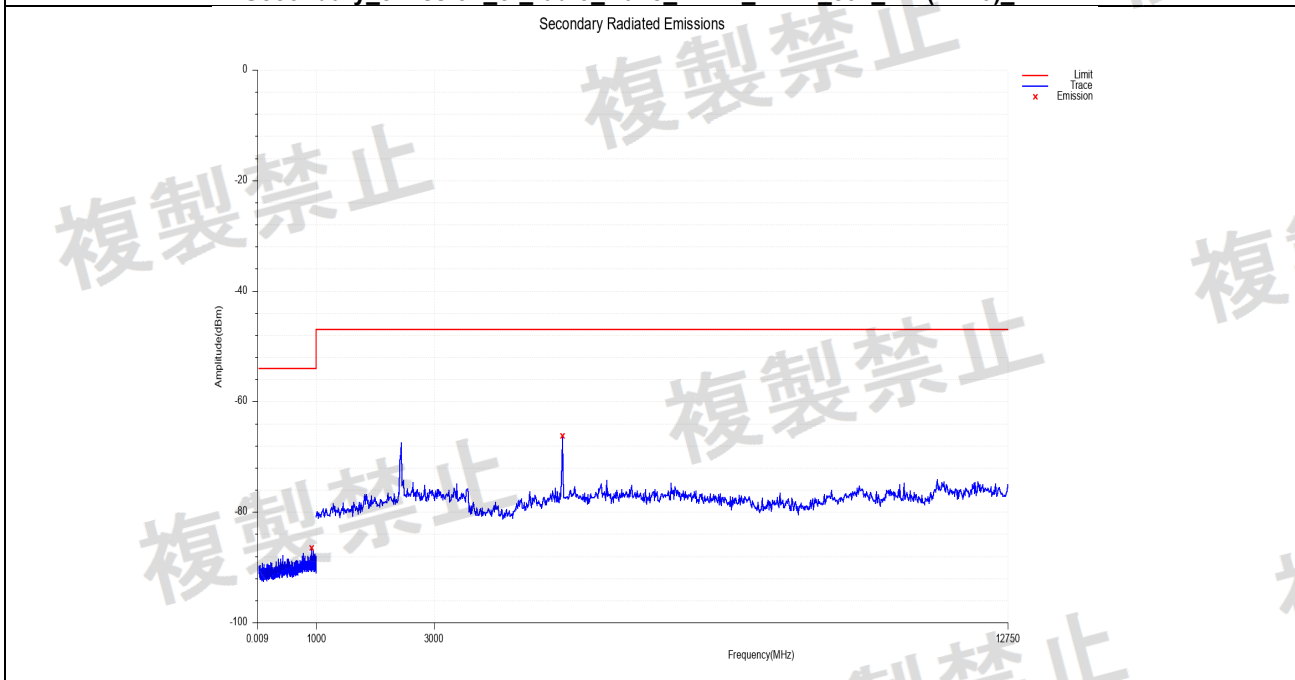
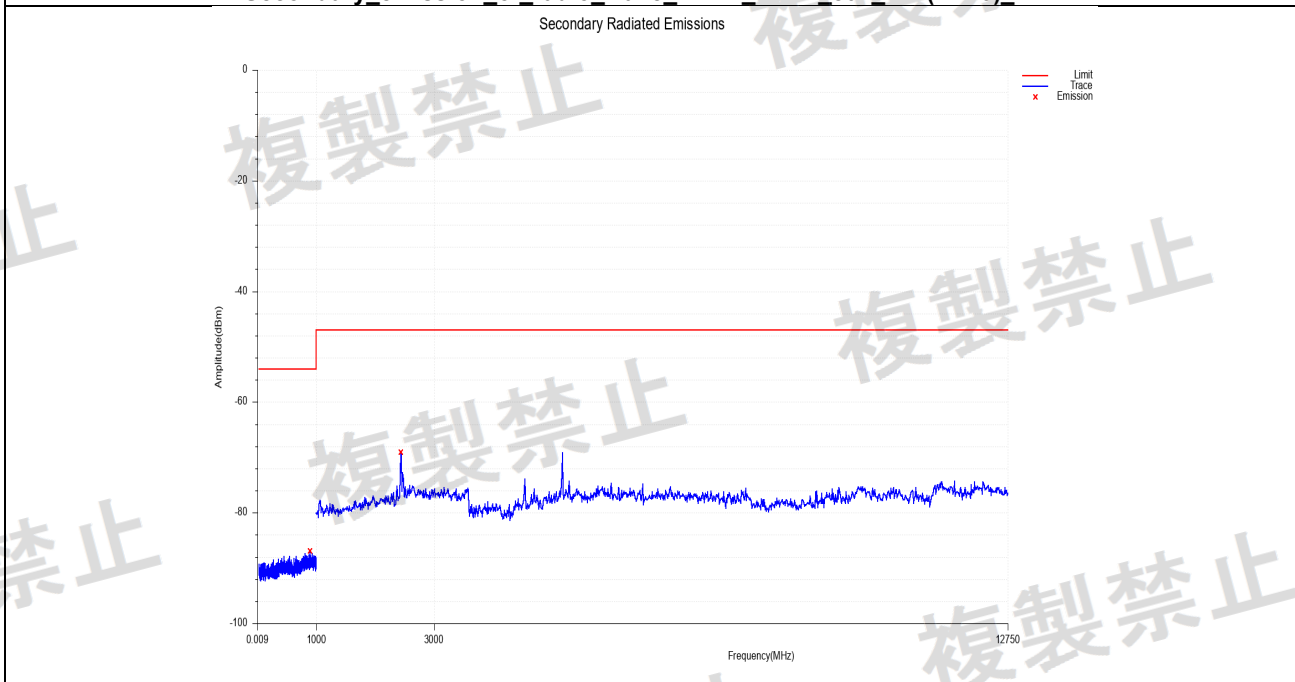
**Secondary emission of radio wave NVNT ANT2 802 11g LCH****Secondary emission of radio wave NVNT ANT1 802 11g LCH**

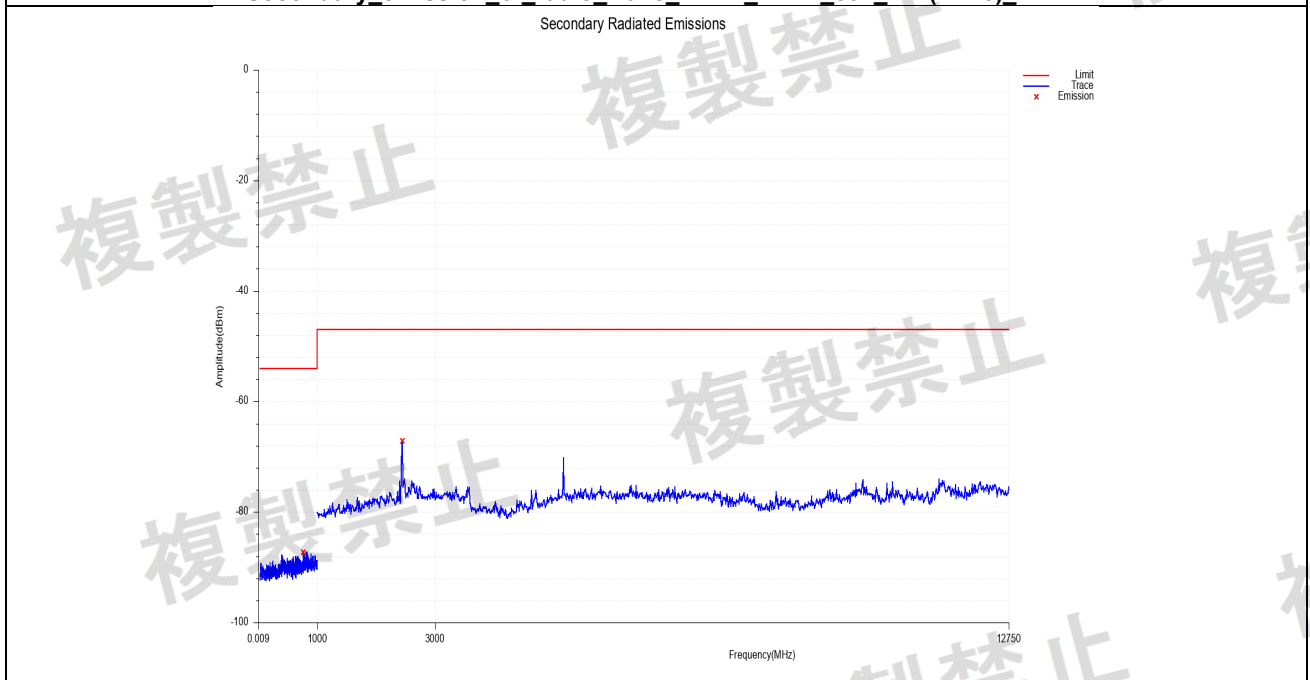
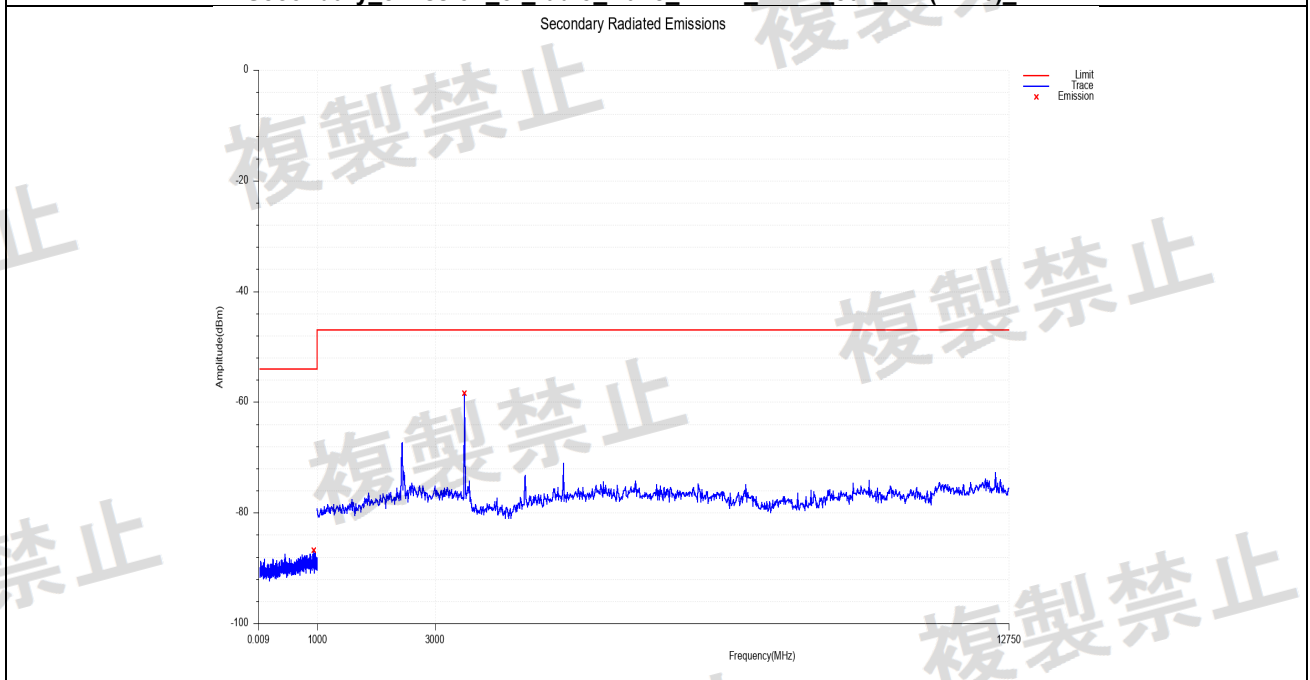
**Secondary emission of radio wave NVNT ANT2 802 11g MCH****Secondary emission of radio wave NVNT ANT1 802 11g MCH**

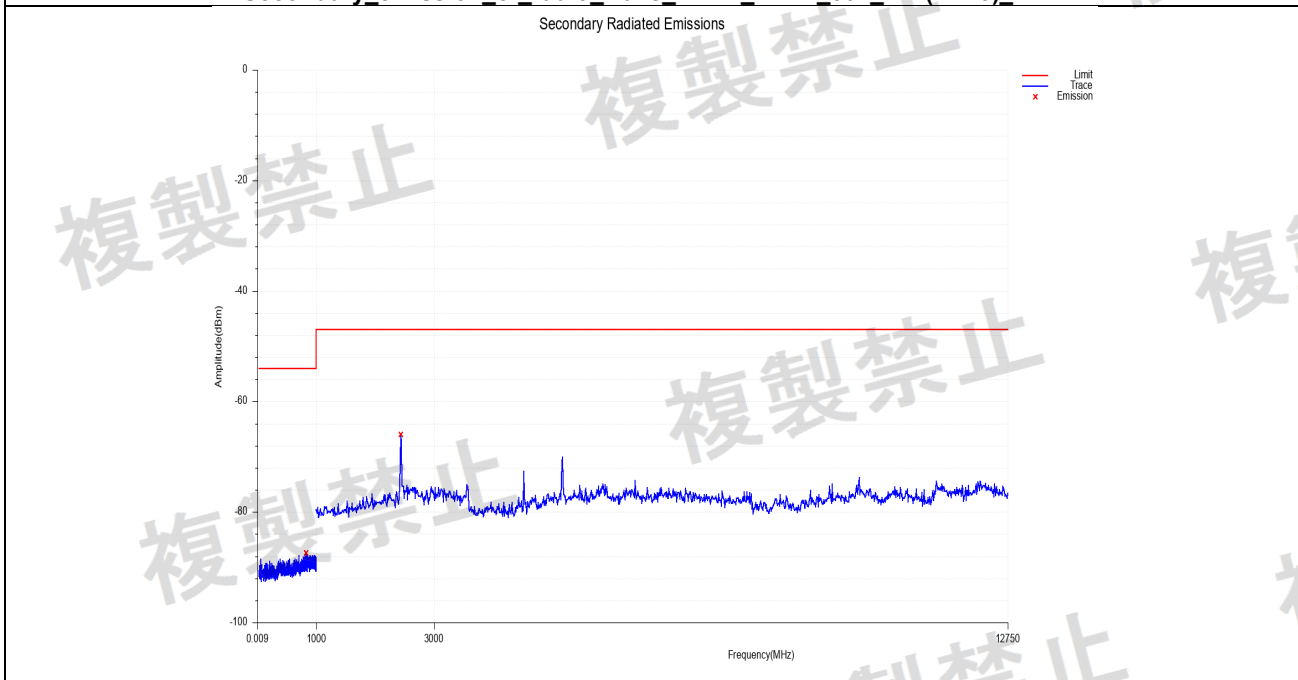
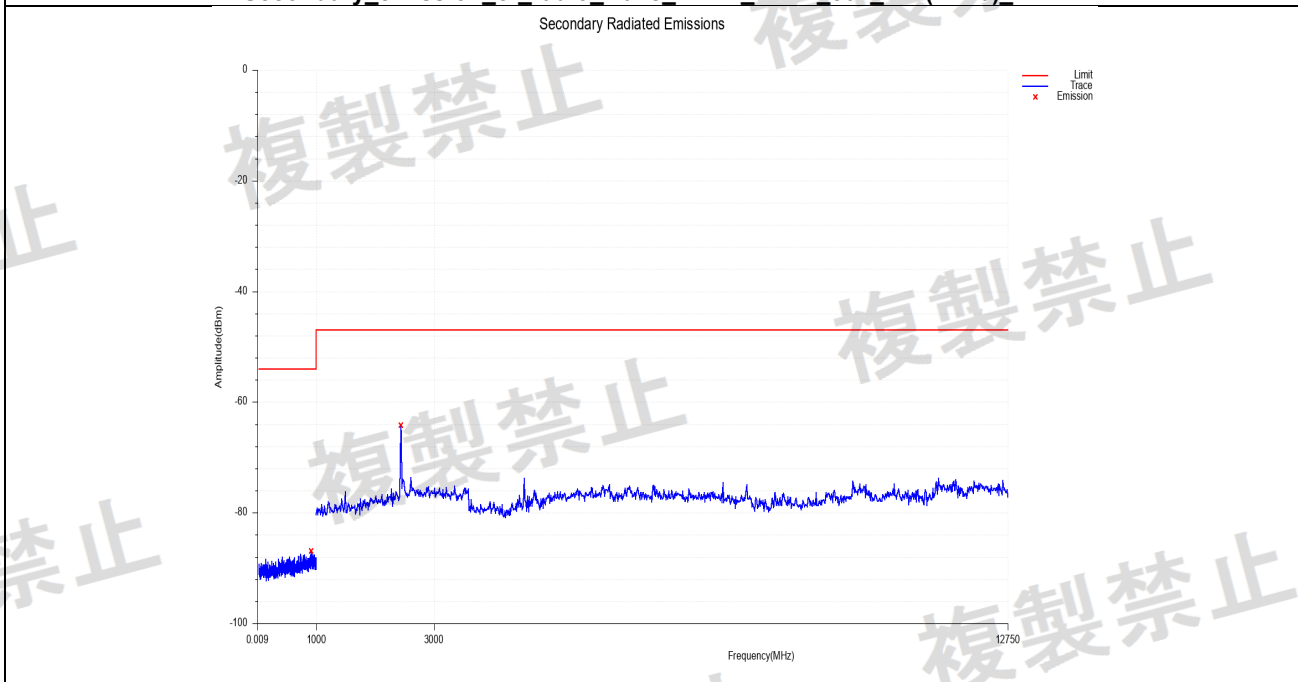
**Secondary emission of radio wave NVNT ANT2 802 11g HCH****Secondary emission of radio wave NVNT ANT1 802 11g HCH**

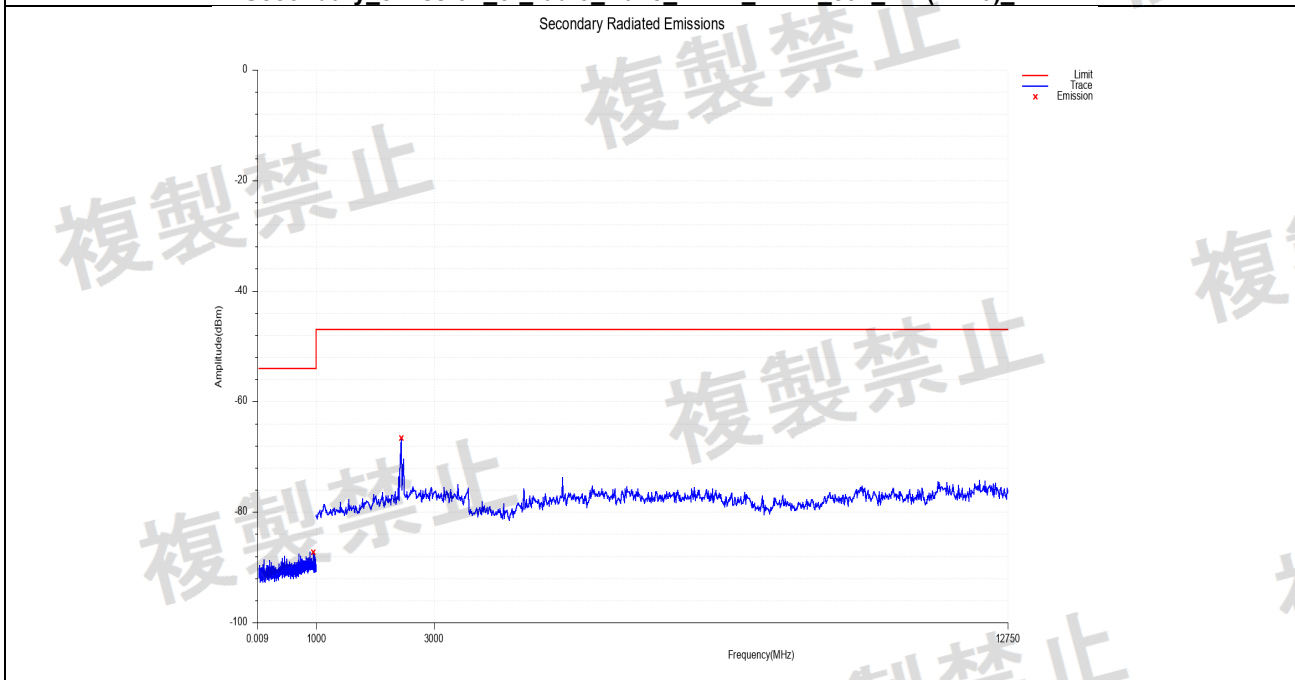
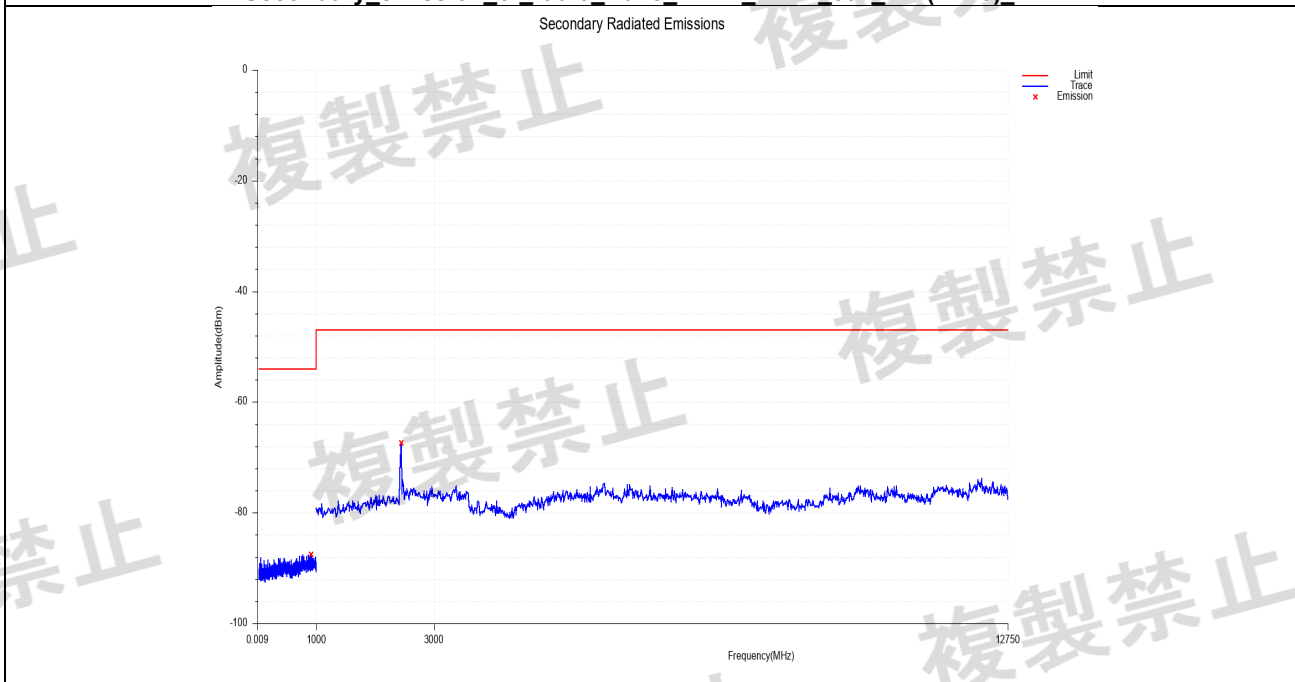
**Secondary emission of radio wave NVNT_ANT2_802_11n(HT20)_LCH****Secondary emission of radio wave NVNT_ANT1_802_11n(HT20)_LCH**

**Secondary emission of radio wave NVNT_ANT2_802_11n(HT20)_MCH****Secondary emission of radio wave NVNT_ANT1_802_11n(HT20)_MCH**

**Secondary emission of radio wave NVNT_ANT2_802_11n(HT20)_HCH****Secondary emission of radio wave NVNT_ANT1_802_11n(HT20)_HCH**

**Secondary emission of radio wave NVNT_ANT2_802_11n(HT40)_LCH****Secondary emission of radio wave NVNT_ANT1_802_11n(HT40)_LCH**

**Secondary emission of radio wave NVNT_ANT2_802_11n(HT40)_MCH****Secondary emission of radio wave NVNT_ANT1_802_11n(HT40)_MCH**

**Secondary emission of radio wave NVNT_ANT2_802_11n(HT40)_HCH****Secondary emission of radio wave NVNT_ANT1_802_11n(HT40)_HCH**

Appendix A.7: Test Results of Carrier Sensing

Test Result

Type	Test channel	Result
802.11n (HT40)	CH _L , CH _M , CH _H	Acceptance

Appendix A.8: Test Results of Interference Prevention Function

Test Result

Limits:	≥48 bits	Measuring	MAC Scan
Mac add:	18:ce:df:18:98:ef	Test result:	Conform