

Test Report

Applicant: Qingdao Magene Intelligence Technology Co., Ltd.

Product Name: Smart GPS Bike Computer

Product Model: P0101373, P0101447

Brand Name: Magene

Test standard: MIC public notice 88:2004, annex 43 and annex 1, Article 2, Paragraph 1, Item 19

Date of Issue: 2025-12-08

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RF TEST REPORT

According to

**MIC public notice 88:2004, annex 43 and annex 1, Article 2,
Paragraph 1, Item 19**

Applicant:	Qingdao Magene Intelligence Technology Co., Ltd.
Address:	No.126 Shuyu Road, Chengyang District, Qingdao, Shandong, China.
Manufacturer:	Qingdao Magene Intelligence Technology Co., Ltd.
Address:	No.126 Shuyu Road, Chengyang District, Qingdao, Shandong, China.
Factory:	Qingdao Magene Intelligence Technology Co., Ltd.
Address:	No.126 Shuyu Road, Chengyang District, Qingdao, Shandong, China.
Sample No:	1000069747
Product Name:	Smart GPS Bike Computer
Brand Name:	Magene
Product Model:	P0101373, P0101447
Test No.:	P0101373

Date of Receipt:	2025-11-08
Date of Test:	2025-11-09 ~ 2025-12-08
Issued Date:	2025-12-08
Testing Lab:	TIRT

Note:

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- 3, This document may be altered or revised by Beijing TIRT Technology Service Co.,Ltd Shenzhen branch laboratory Personnel only, and shall be noted in the revision section of the document. The test results of this report relate only to the tested sample identified in this report.

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History of the test report

Report No.	Version	Description	Issued Date	Note
ITEZA2-202500649RF1	V1.0	Original Report.	2025-12-08	Valid



1. General Information

1.1. Description of Device (EUT)

EUT	: Smart GPS Bike Computer
Model No.	: P0101373, P0101447
Power supply	: DC 3.8V from Lithium battery or DC 5V from Type-C port
Radio Technology	: 2.4G WiFi
Operation frequency	: 2412MHz-2472MHz for IEEE 802.11 b, g, n/HT20 2422MHz-2462MHz for IEEE 802.11 n/HT40
Number of channels	: 802.11b/802.11g /802.11n(HT20): 13CH 802.11n(HT40): 9CH
Modulation	: IEEE 802.11b: DSSS(CCK,DQPSK,DBPSK) IEEE 802.11g: OFDM(64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n:OFDM(64QAM, 16QAM, QPSK, BPSK)
Stated power	: 3mW/MHz for 802.11b 1mW/MHz for 802.11g /802.11n(HT20)/802.11n(HT40)
Antenna Type	: PCB Antenna, max gain -1.5dBi Antenna information is provided by applicant. Testing lab is not responsible for the accuracy of the information.
Software Version	: V1.950
Hardware version	: V1.0

1.2. Accessories of Device (EUT)

Accessories : /
Manufacturer : /
Model : /
Ratings : /

1.3. Ancillary Equipment Details

No.	Description	Manufacturer	Model	Note
1	PC	DELL	3511	N/A
2	USB TO TTL	N/A	N/A	N/A

1.4. Additions, Deviations and Exclusions from Standards

None

1.5. Model differences

The screen components are different, but everything else is the same



2. Summary of test

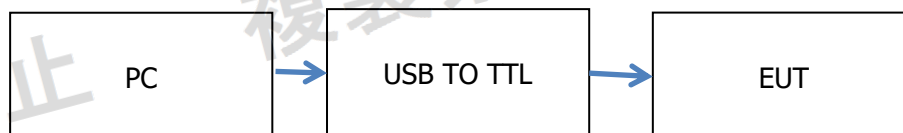
2.1. Summary of test result

CLAUSE	TEST PARAMETER	RESULTS
Transmitter Parameters		
3.2 (2)	Antenna Power	Pass
3.2 (3)	Tolerances for Antenna Power	Pass
3.2 (4)	Frequency Tolerance	Pass
3.2 (7)	Occupied Frequency Bandwidth	Pass
3.2 (6)	Spurious Emissions	Pass
/	Equivalent Isotropic Radiated Power	Pass
/	3dB Beam Bandwidth	N/A
/	Interference prevention function	Pass
/	Carrier Sensing function	N/A
Receiver Parameters		
3.3 (1)	Secondary Radiated Emissions	Pass
N/A is an abbreviation for Not Applicable.		

2.2. The standard of Calibration Equipment

- Calibration conducted by the National institute of information and Communications Technology NICT or a designated calibration agency under Article 102-18 paragraph.
 - 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.
 - 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.
- The all calibration corresponds to c) described above.

2.3. Block Diagram



2.4. Test mode

The test software is used to control the operation of the EUT in the continuous transmission mode, and select the test channel and wireless mode:

Tested mode, channel, and data rate information			
Mode	Data rate (Mbps) (see Note)	Channel	Frequency (MHz)
IEEE 802.11b	1	Low :CH1	2412
	1	Middle: CH7	2442
	1	High: CH13	2472
IEEE 802.11g	6	Low :CH1	2412
	6	Middle: CH7	2442
	6	High: CH13	2472
IEEE 802.11n HT20	6.5	Low :CH1	2412
	6.5	Middle: CH7	2442
	6.5	High: CH13	2472
IEEE 802.11n HT40	6.5	Low :CH3	2422
	6.5	Middle: CH7	2442
	6.5	High: CH11	2462
Carrier Tx Mode	/	Low :CH1	2412
	/	Low :CH3	2422
	/	Middle: CH7	2442
	/	High: CH11	2462
	/	High: CH13	2472

Note: 1 According exploratory test, EUT will have maximum output power in those data rate, so those data rate were used for all test.
2 Antenna Connector Impedance: 50Ω, Cable Loss: 1.0 dB

2.5. Test Conditions

Temperature range	5-35℃
Humidity range	45-85%
Pressure range	86-106kPa

2.6. Test Voltage

Voltage mode	Input Voltage	Radio Unit Voltage
DC	DC 3.2V	DC 3.3V
	DC 3.3V	DC 3.3V
	DC 3.6V	DC 3.3V

Note: 1 The radio unit Voltage with the IC regulator.
2 The radio unit less than 1%, so the test only rated voltage (Normal voltage DC 3.3V).

2.7. Test Facility

Company:	Beijing TIRT Technology Service Co.,Ltd Shenzhen Branch
Address:	1st Floor, South Flat, Building 7, Tongfuyu Industrial Zone, Xinhe Avenue, Gonghe Community, Shajing Street, BaoAn District, Shenzhen, Guangdong, China
CNAS Registration Number:	CNAS L14158
A2LA Registration Number:	6049.01
FCC Designation Number:	CN1366
Test Firm Registration Number:	820690
Telephone:	+86-0755-27087573

2.8. Measurement Uncertainty (95% confidence levels, $k=2$)

Item	MU
Frequency Error	$\pm 1.9\%$
Antenna Power	$\pm 0.743\text{dB}$
Occupied Bandwidth	$\pm 0.0196\%$
Spread Bandwidth	$\pm 0.0196\%$
Transmitter Spurious Emission Strength and Unwanted Emission Intensity	30MHz-1GHz: $\pm 0.746\text{dB}$ 1GHz-13GHz: $\pm 1.328\text{dB}$
Receiver Spurious Emission and Unwanted Emission Intensity	30MHz-1GHz: $\pm 0.746\text{dB}$ 1GHz-26GHz: $\pm 1.328\text{dB}$
Dwell Time	$\pm 0.028\%$
Frequency Error	$\pm 1.9\%$



3. Antenna Power

3.1. Test Equipment

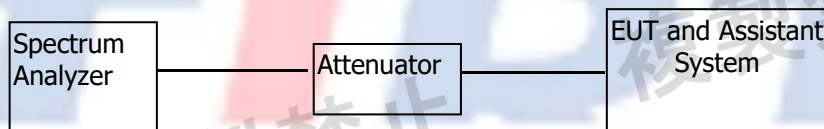
Item	Type	Manufacturer	Model No.	Serial No.	Last Calibration	Due Calibration
1	Spectrum analyzer	Agilent	N9020A	MY54488989	2025/11/10	2026/11/09
2	Spectrum analyzer	ROHDE&SCHWARZ	FSU26	200732	2025/11/10	2026/11/09
3	Attenuator	SCHWARZBECK	DGA 9552N	3161	2025/10/17	2026/10/16
4	Automatic RF control unit	Tonscend	JS0806-1	19K8060206	2025/11/12	2026/11/11

Note: The test equipment is calibrated by Huajue Medical Testing and Metrology (Shenzhen) Co., Ltd. Calibration standard: Article 24-2, Paragraph 4 of the Radio Act, method c

3.2. Limit

Type	Limit
OFDM OBW<26MHz, DS	10mW/MHz
OFDM OBW 26-40MHz	5mW/MHz
Tolerance	+20%, No Low Limit

3.3. Block diagram of test setup



3.4. Test Procedure

Step 1:

Search Frequency of Peak Power

Test Frequency: test channel,

RBW=1MHz, VBW=1MHz, Span=2*nominal bandwidth, Sweep time=Auto, Detector mode=Positive peak

Step 2:

Measure of average burst power

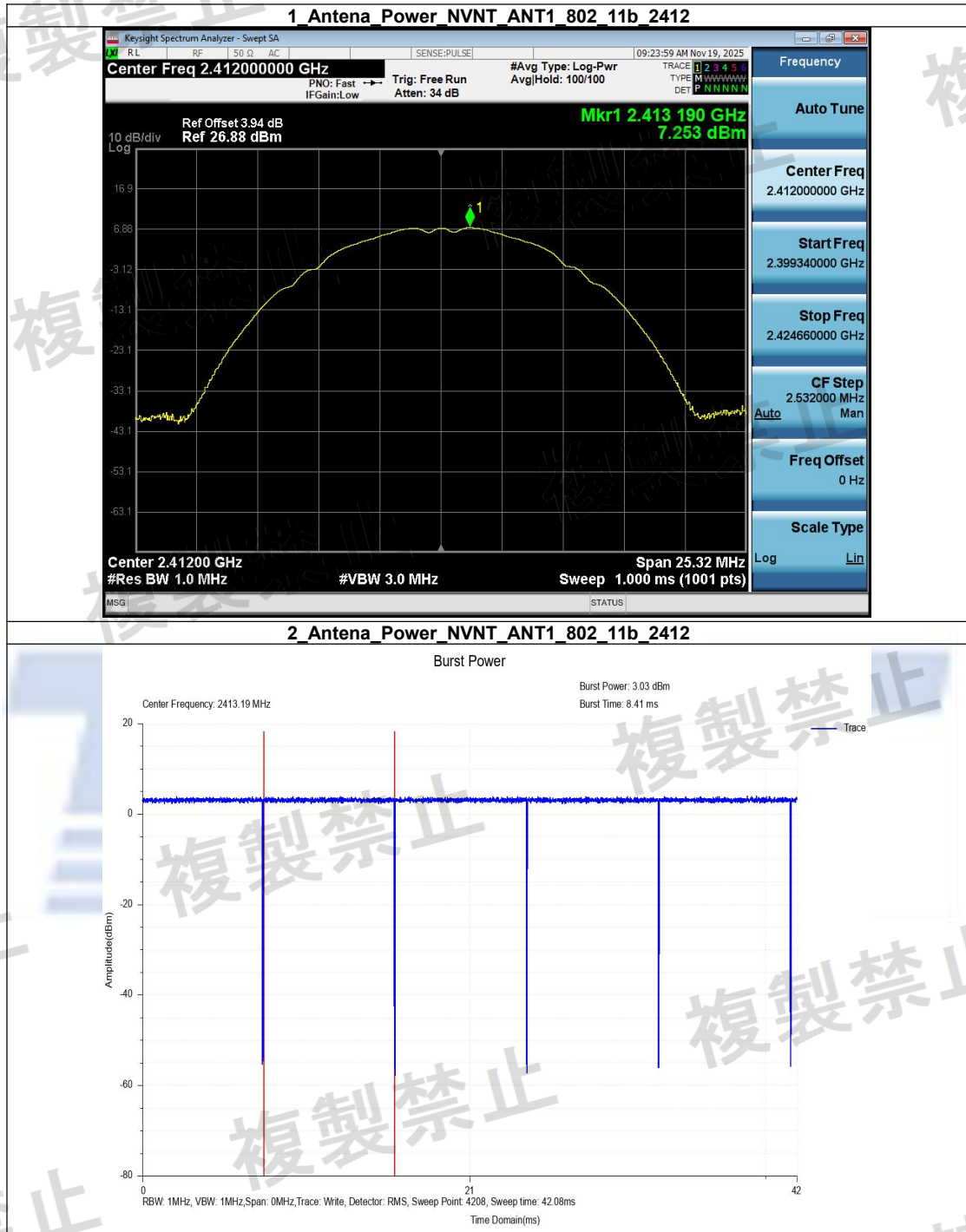
Test Frequency: frequency of peak power

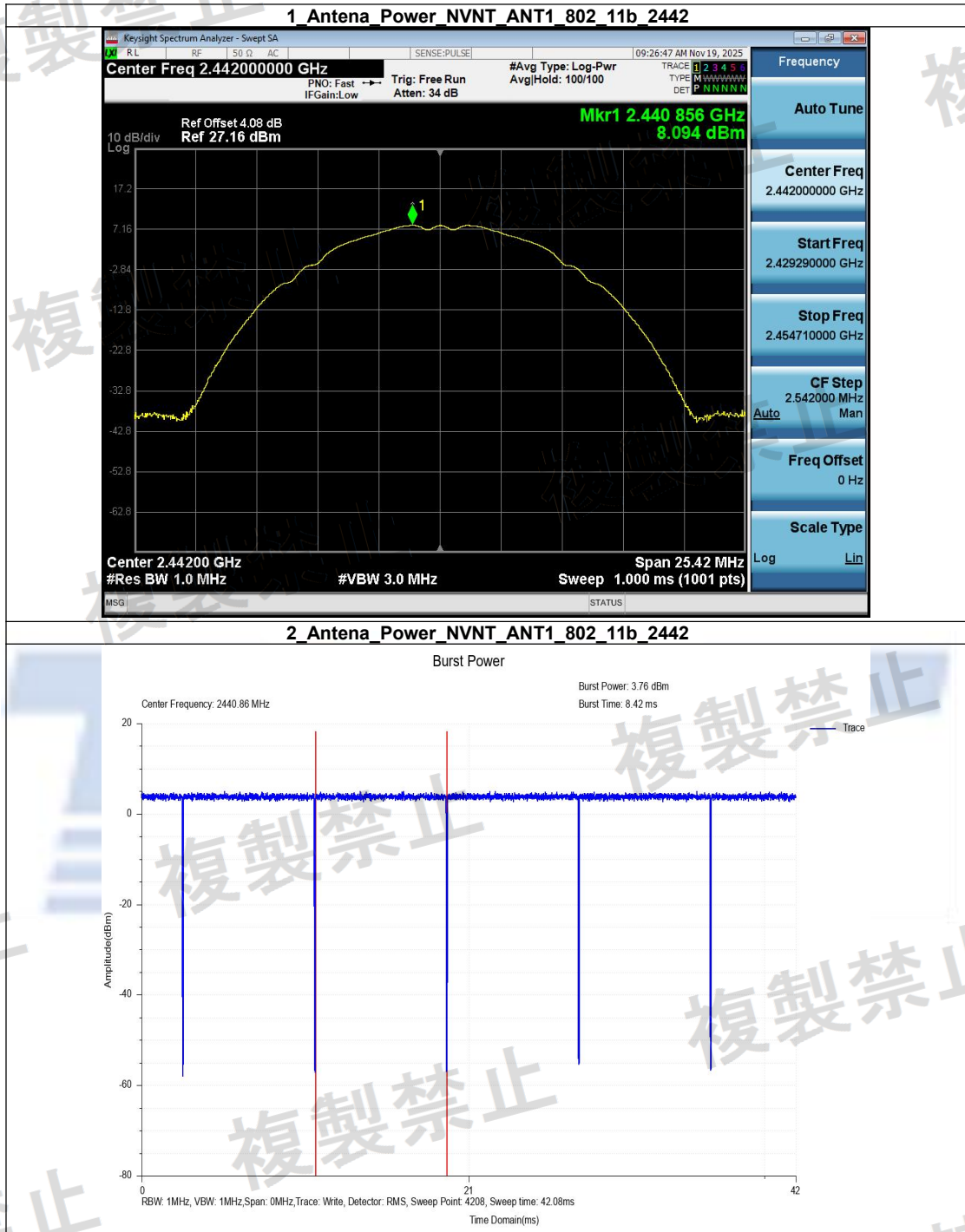
RBW=1MHz, VBW=1MHz, Span=0Hz, Sweep time=Auto, Detector mode=Peak

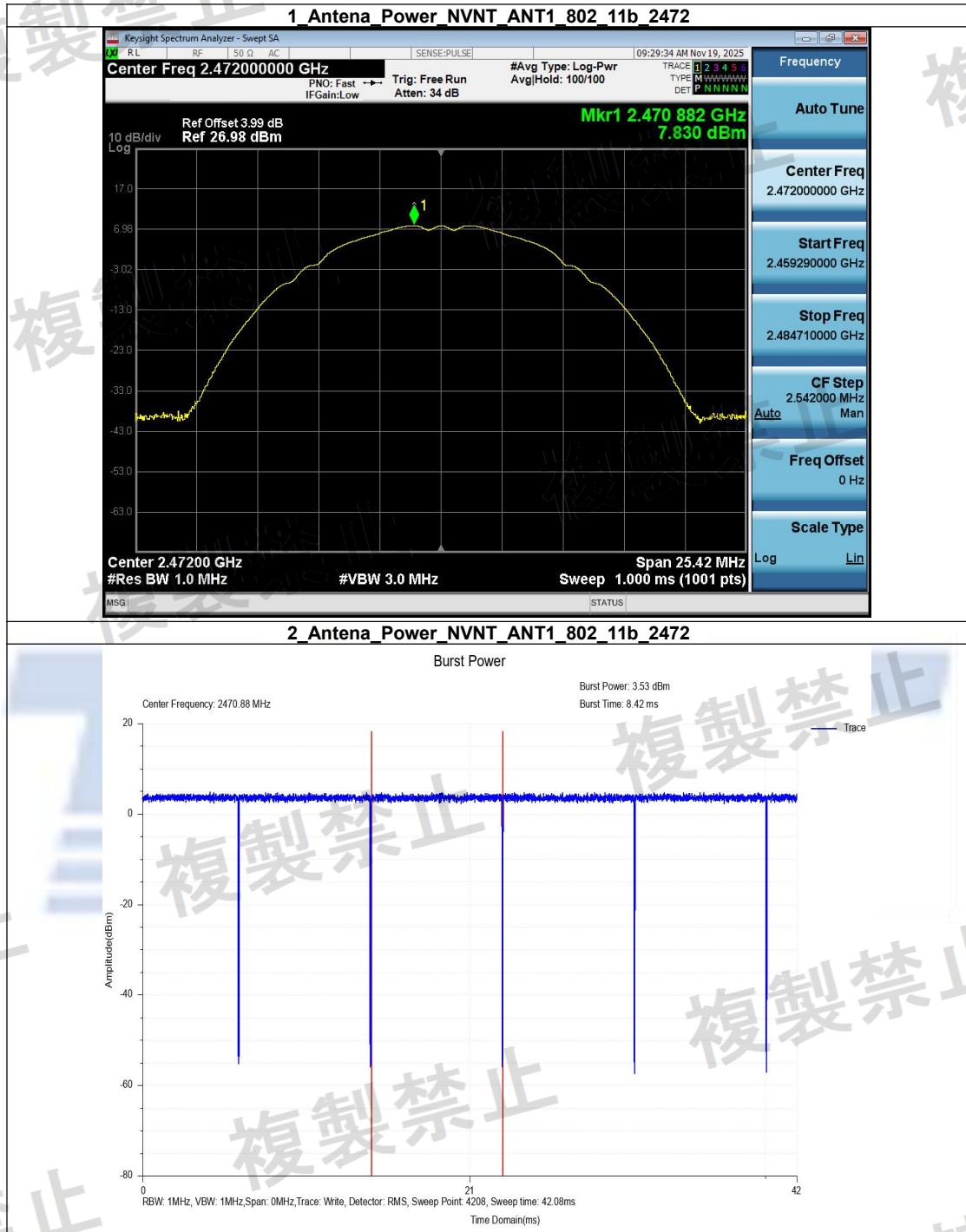
Antenna power= Peak burst power

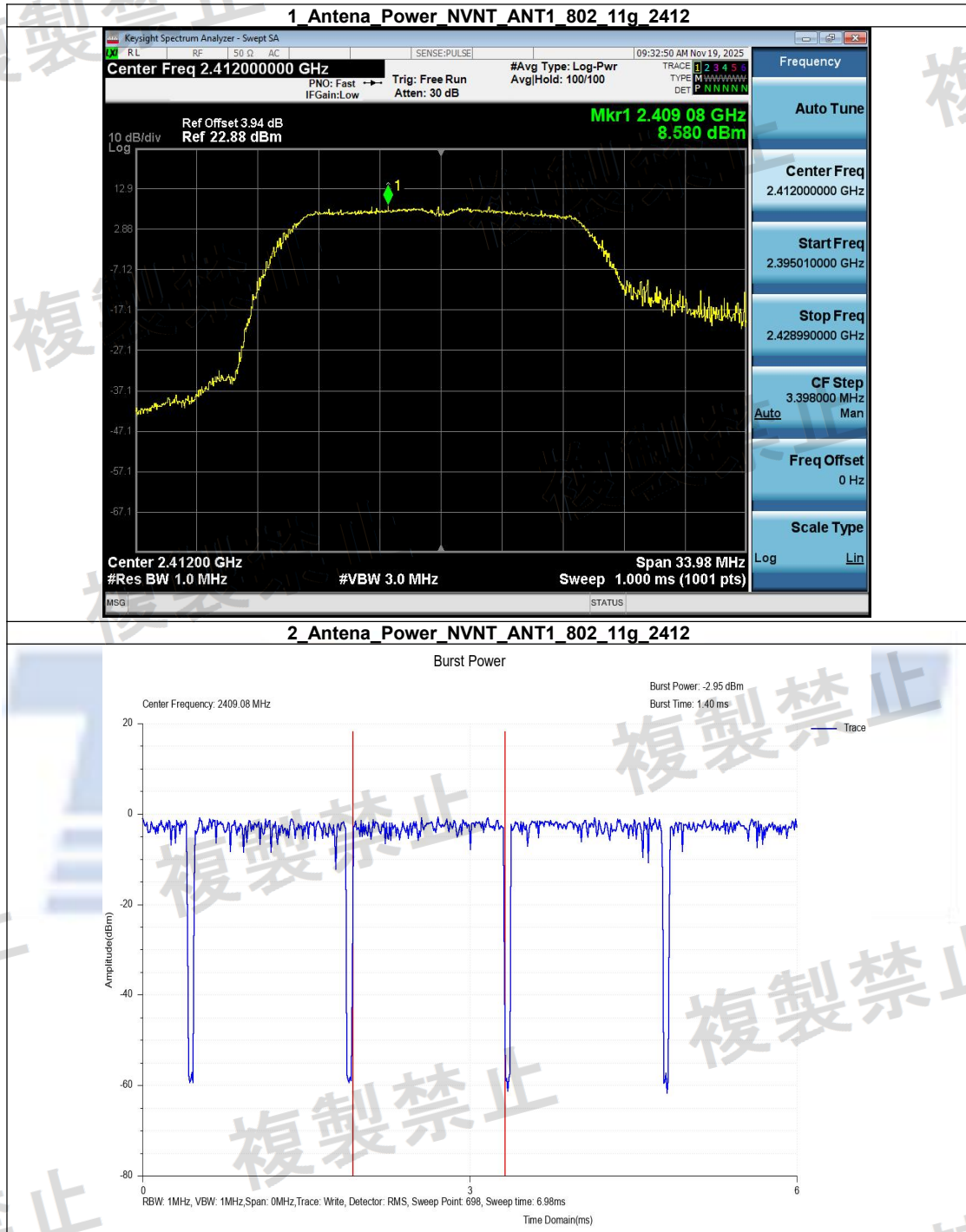
3.5. Test result

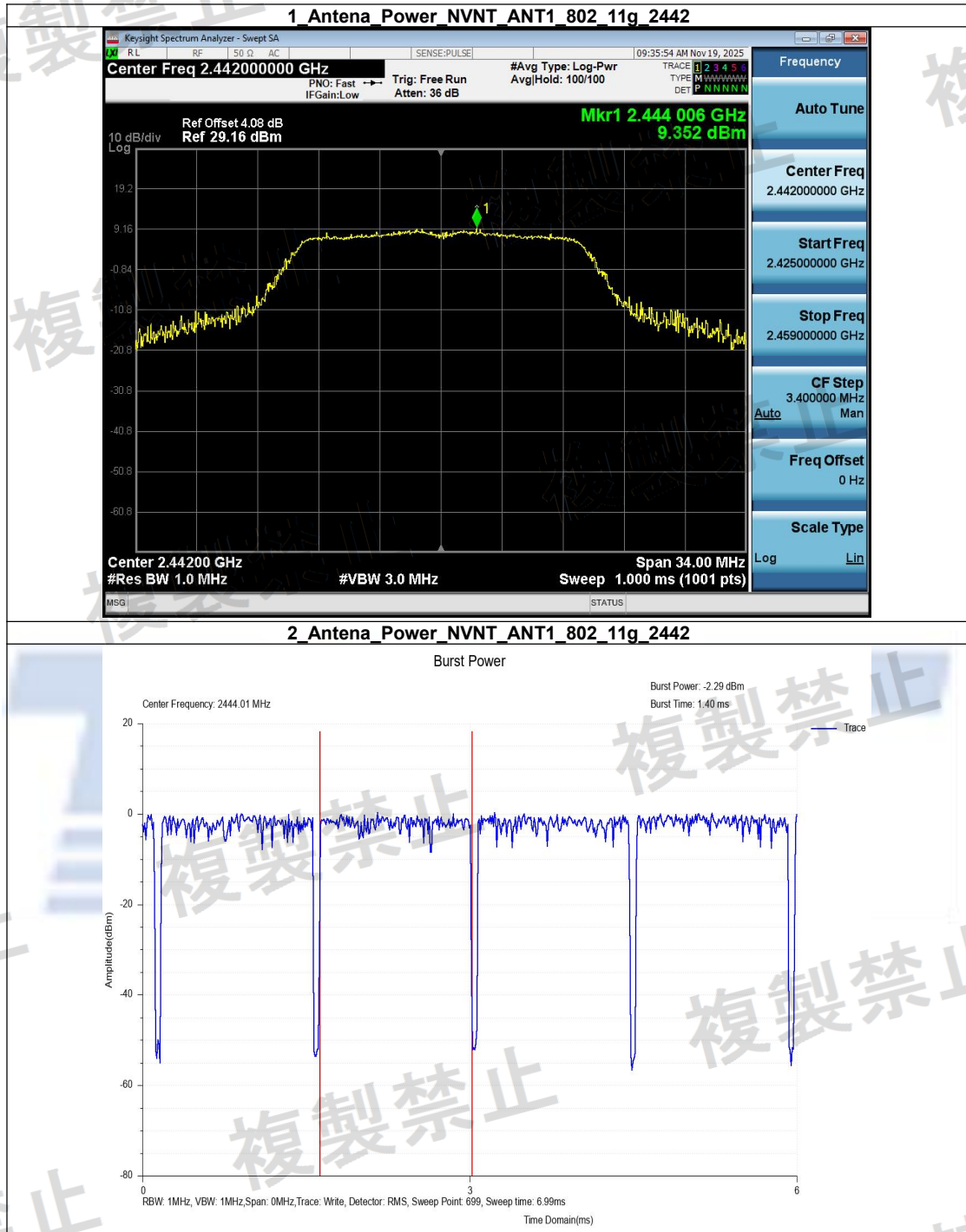
Condition	Antenna	Mode	Frequency	Measured Power (dBm)	Antenna Power (mW/MHz)	Rated Power (mW/MHz)	Power Limit (mW/MHz)	Power Tolerance (%)	Tolerance Limit(%)	Result
NVNT	ANT1	802.11b	2412.00	3.03	2.01	3.00	10.00	-33.10	+20	Pass
NVNT	ANT1	802.11b	2442.00	3.76	2.37	3.00	10.00	-20.84	+20	Pass
NVNT	ANT1	802.11b	2472.00	3.53	2.25	3.00	10.00	-24.84	+20	Pass
NVNT	ANT1	802.11g	2412.00	-2.95	0.51	1.00	10.00	-49.31	+20	Pass
NVNT	ANT1	802.11g	2442.00	-2.29	0.59	1.00	10.00	-40.94	+20	Pass
NVNT	ANT1	802.11g	2472.00	-2.47	0.57	1.00	10.00	-43.32	+20	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	-3.55	0.44	1.00	10.00	-55.84	+20	Pass
NVNT	ANT1	802.11n(HT20)	2442.00	-3.14	0.49	0.50	10.00	-2.97	+20	Pass
NVNT	ANT1	802.11n(HT20)	2472.00	-3.84	0.41	1.00	10.00	-58.65	+20	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	-7.18	0.19	1.00	5.00	-80.88	+20	Pass
NVNT	ANT1	802.11n(HT40)	2442.00	-5.91	0.26	1.00	5.00	-74.38	+20	Pass
NVNT	ANT1	802.11n(HT40)	2462.00	-6.70	0.21	1.00	5.00	-78.61	+20	Pass

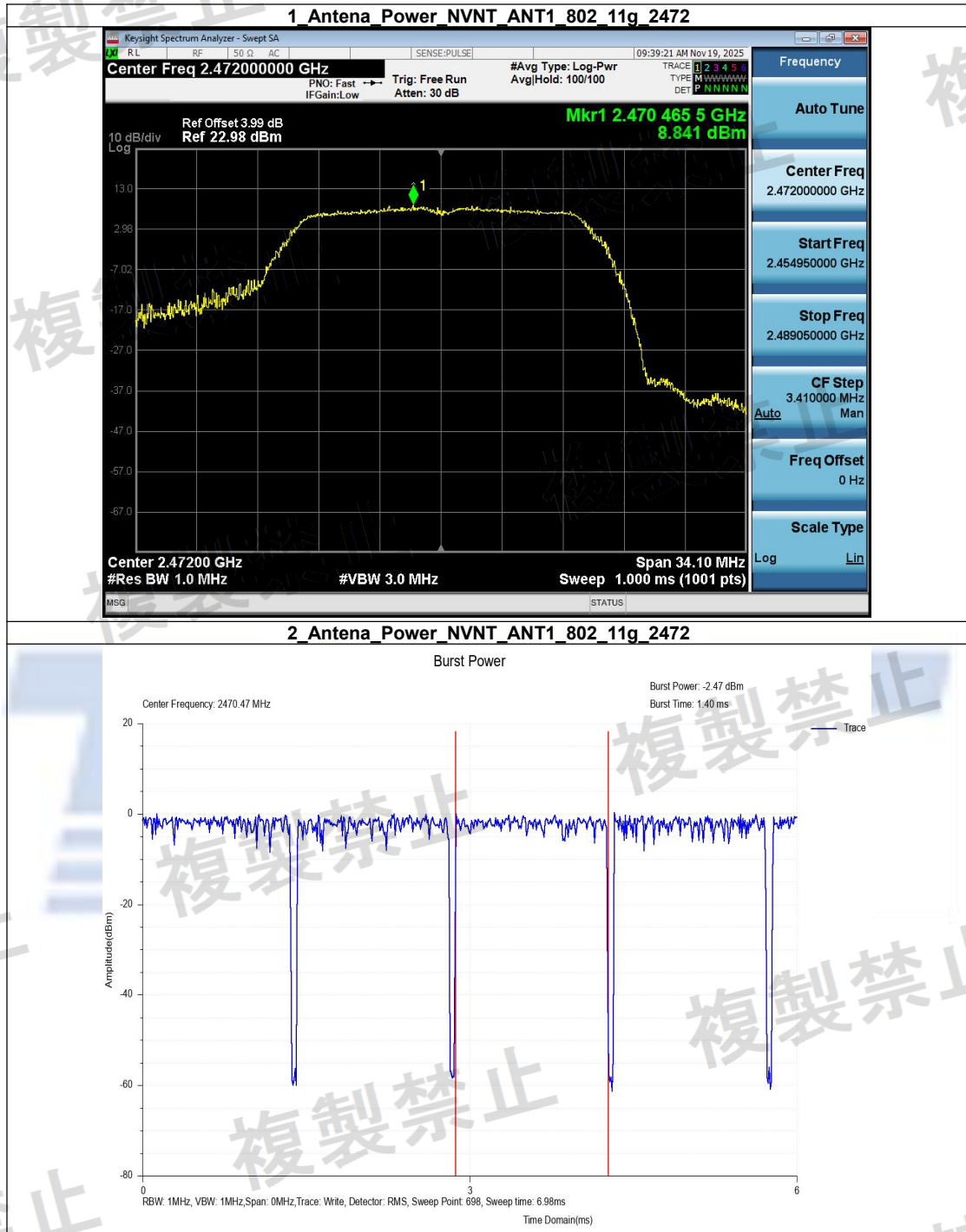


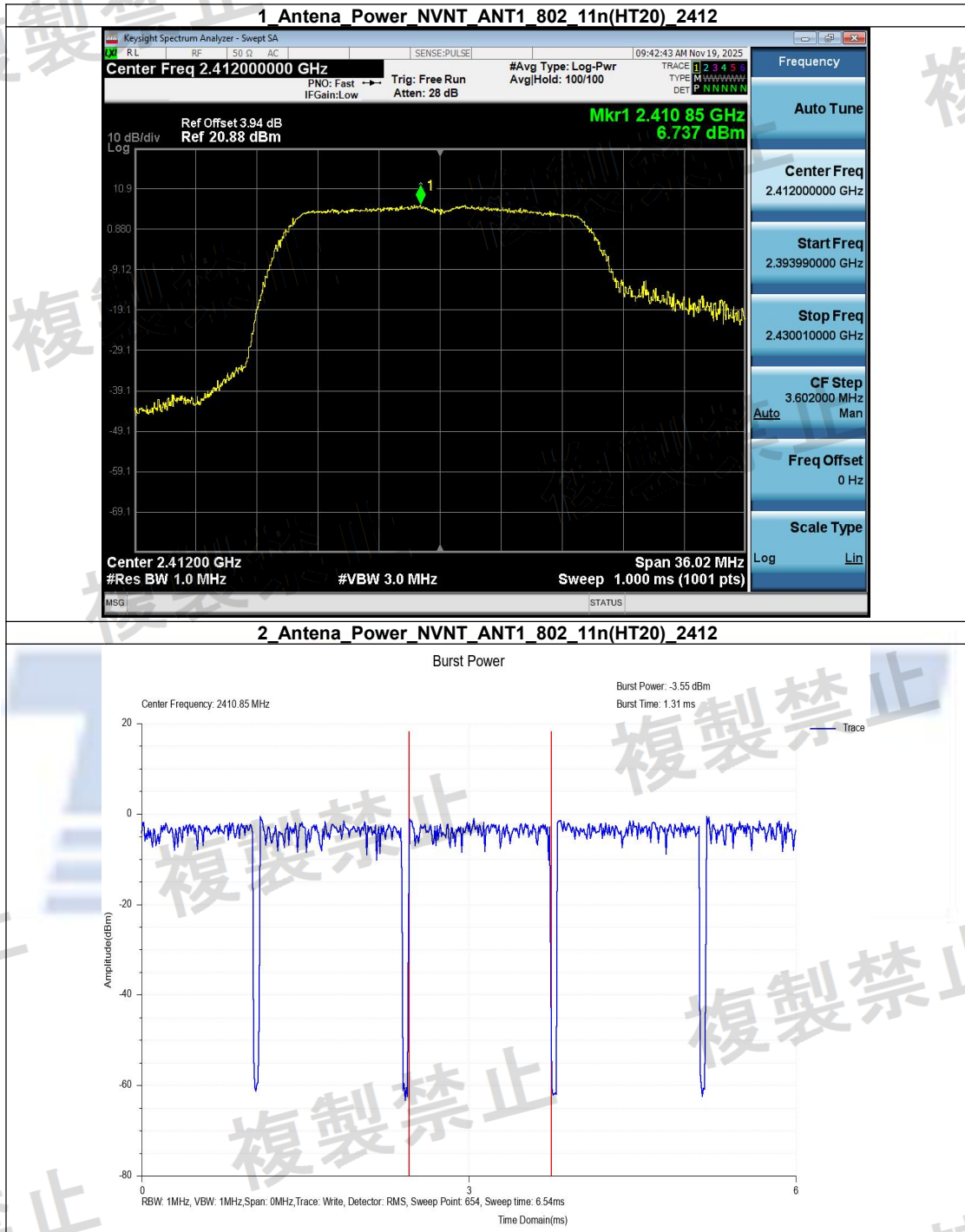


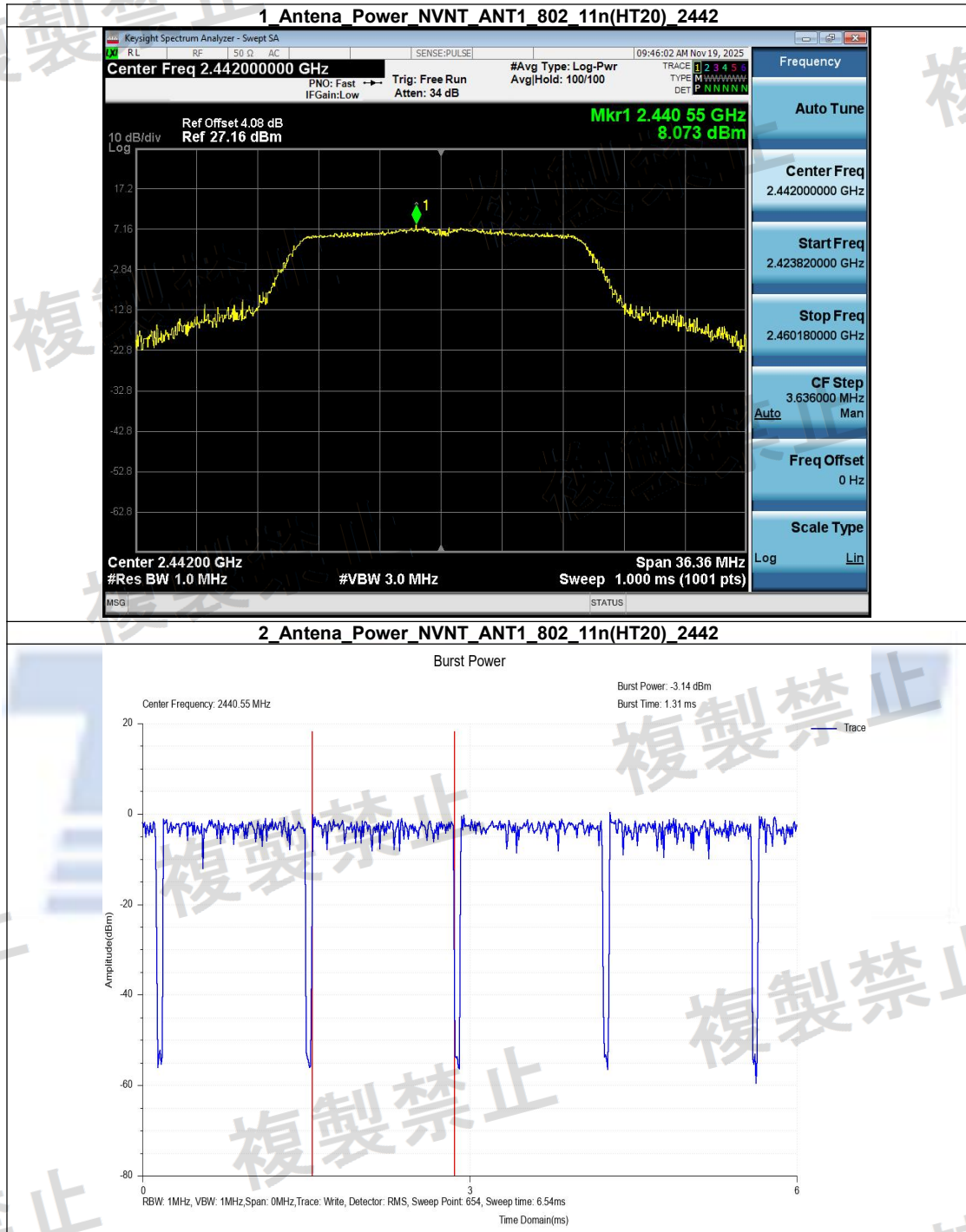


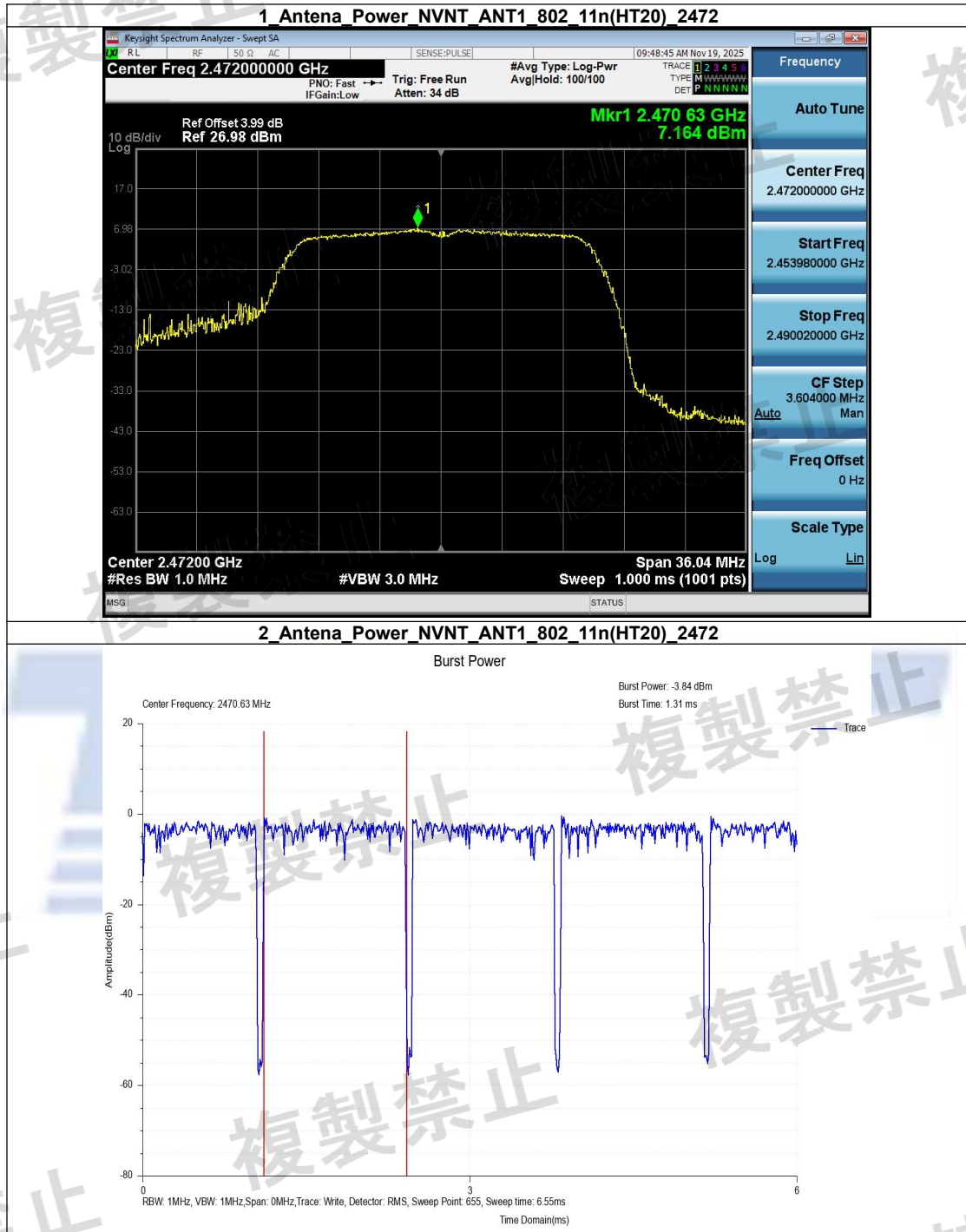


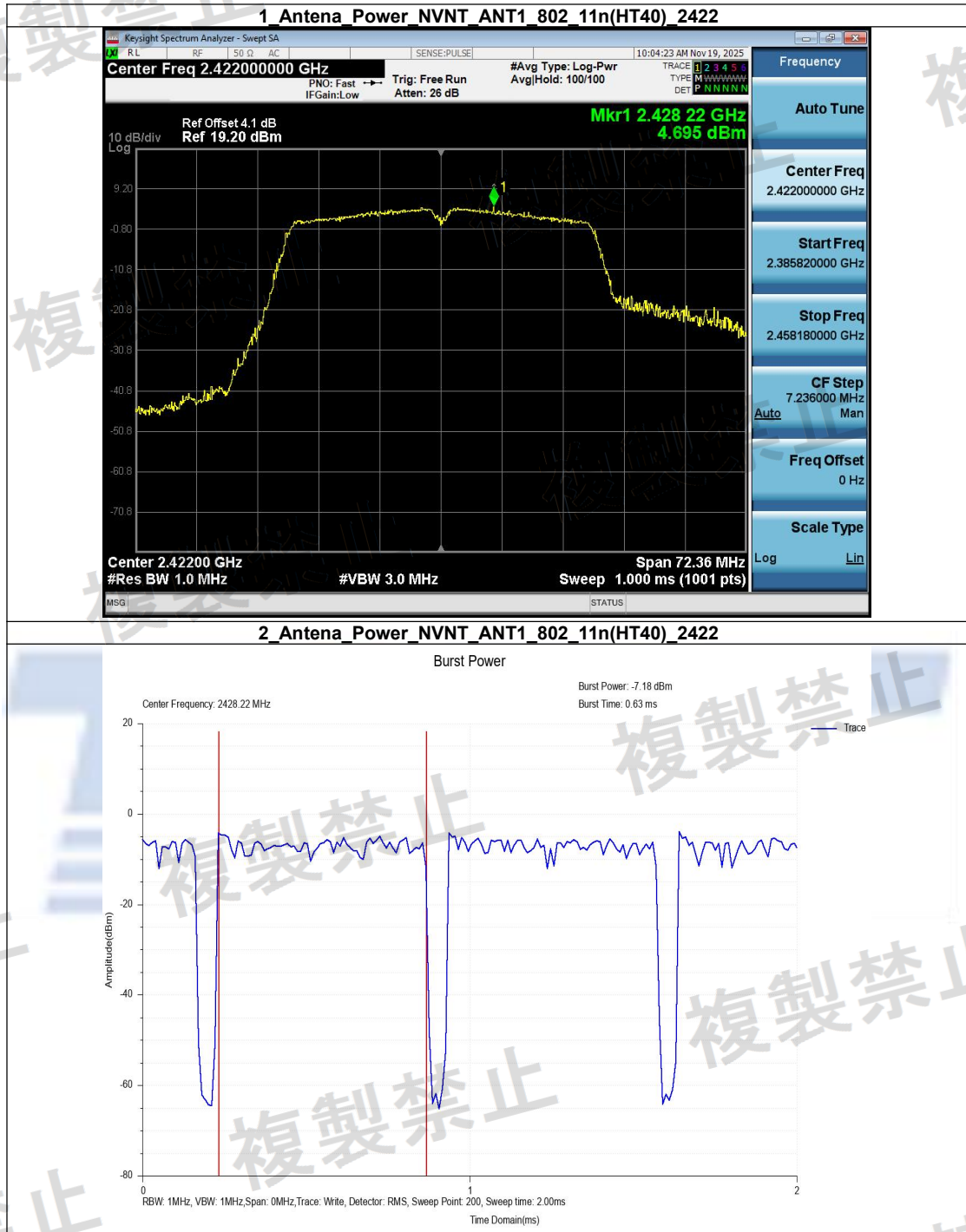


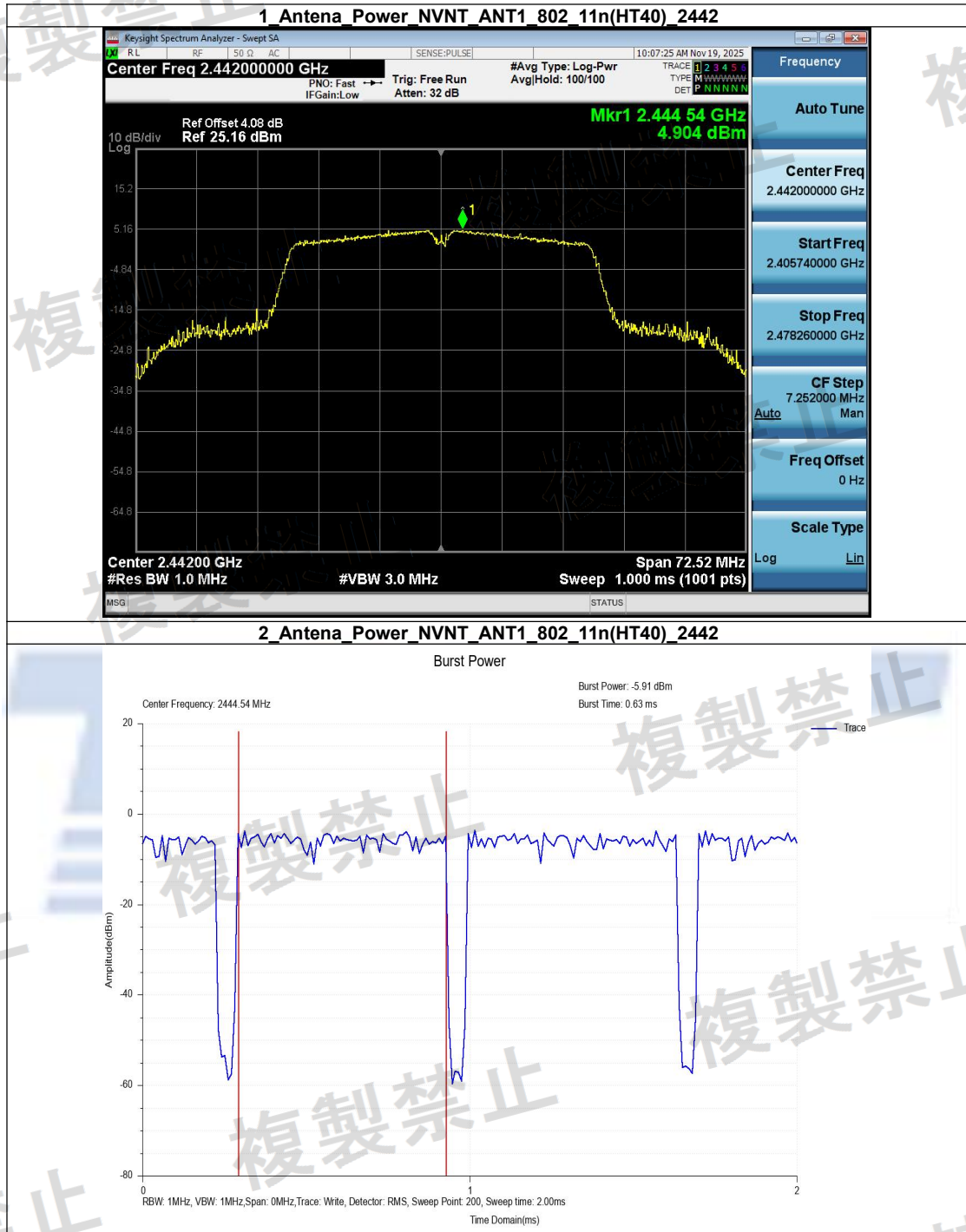


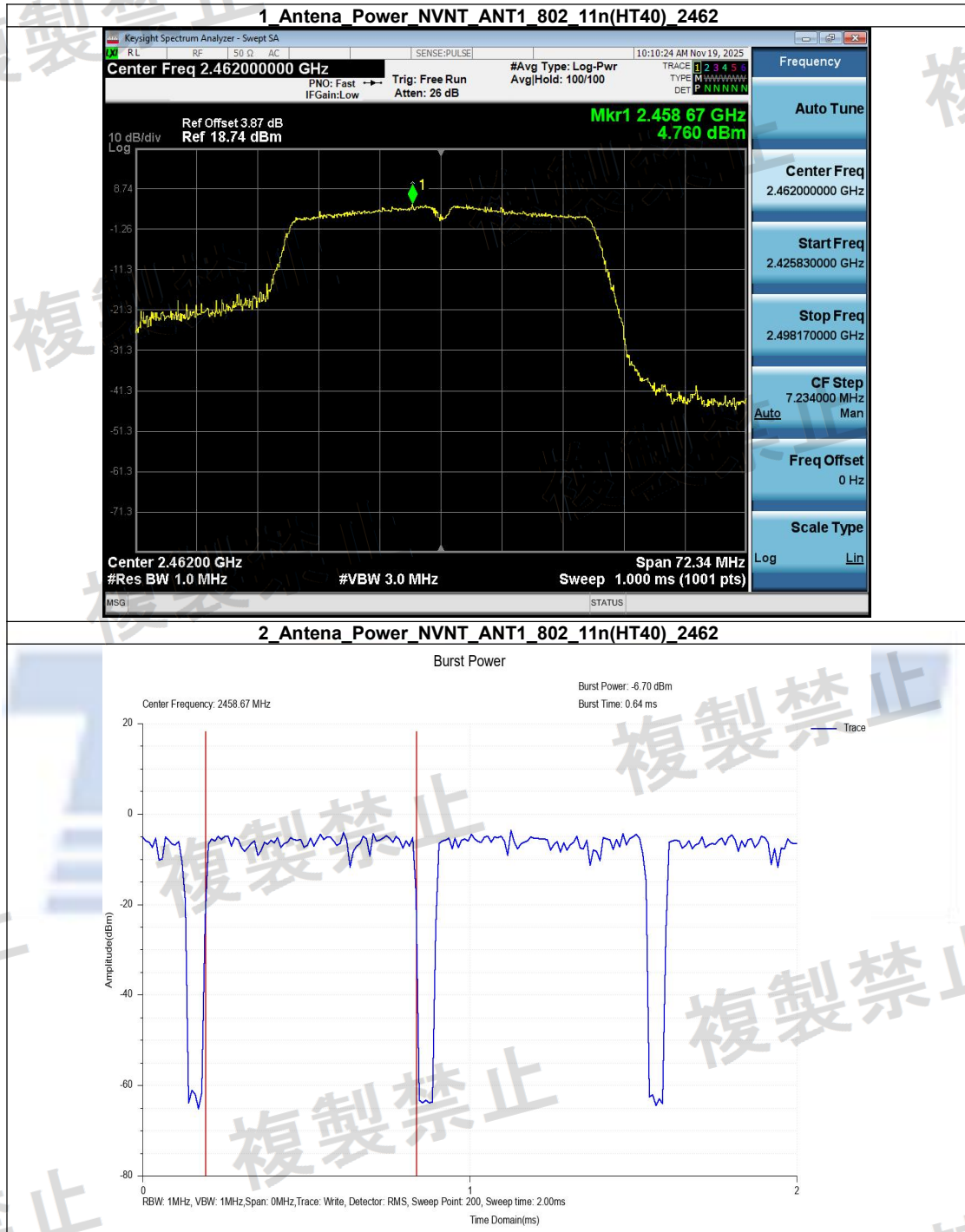












4. Frequency Tolerance

4.1. Test Equipment

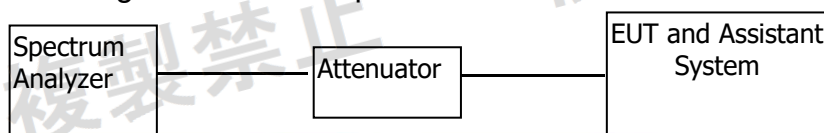
Item	Type	Manufacturer	Model No.	Serial No.	Last Calibration	Due Calibration
1	Spectrum analyzer	Agilent	N9020A	MY54488989	2025/11/10	2026/11/09
2	Spectrum analyzer	ROHDE&SCHWARZ	FSU26	200732	2025/11/10	2026/11/09
3	Attenuator	SCHWARZBECK	DGA 9552N	3161	2025/10/17	2026/10/16

Note: The test equipment is calibrated by Huajue Medical Testing and Metrology (Shenzhen) Co., Ltd. Calibration standard: Article 24-2, Paragraph 4 of the Radio Act, method c

4.2. Limit

+/- 50x 10⁻⁶ or less(50ppm)

4.3. Block diagram of test setup



4.4. Test Procedure

- (1) Configure EUT and assistant system according clause 2.3 and 4.3
- (2) Set EUT work in carrier Tx mode as described in clause 2.4
- (3) Connected the EUT's antenna port to the Spectrum Analyzer by suitable attenuator, set the Spectrum Analyzer as below:

Centre Frequency: The centre frequency of the channel under test.

Resolution BW: 10 KHz.

Video BW: 10 KHz.

Span: 1MHz.

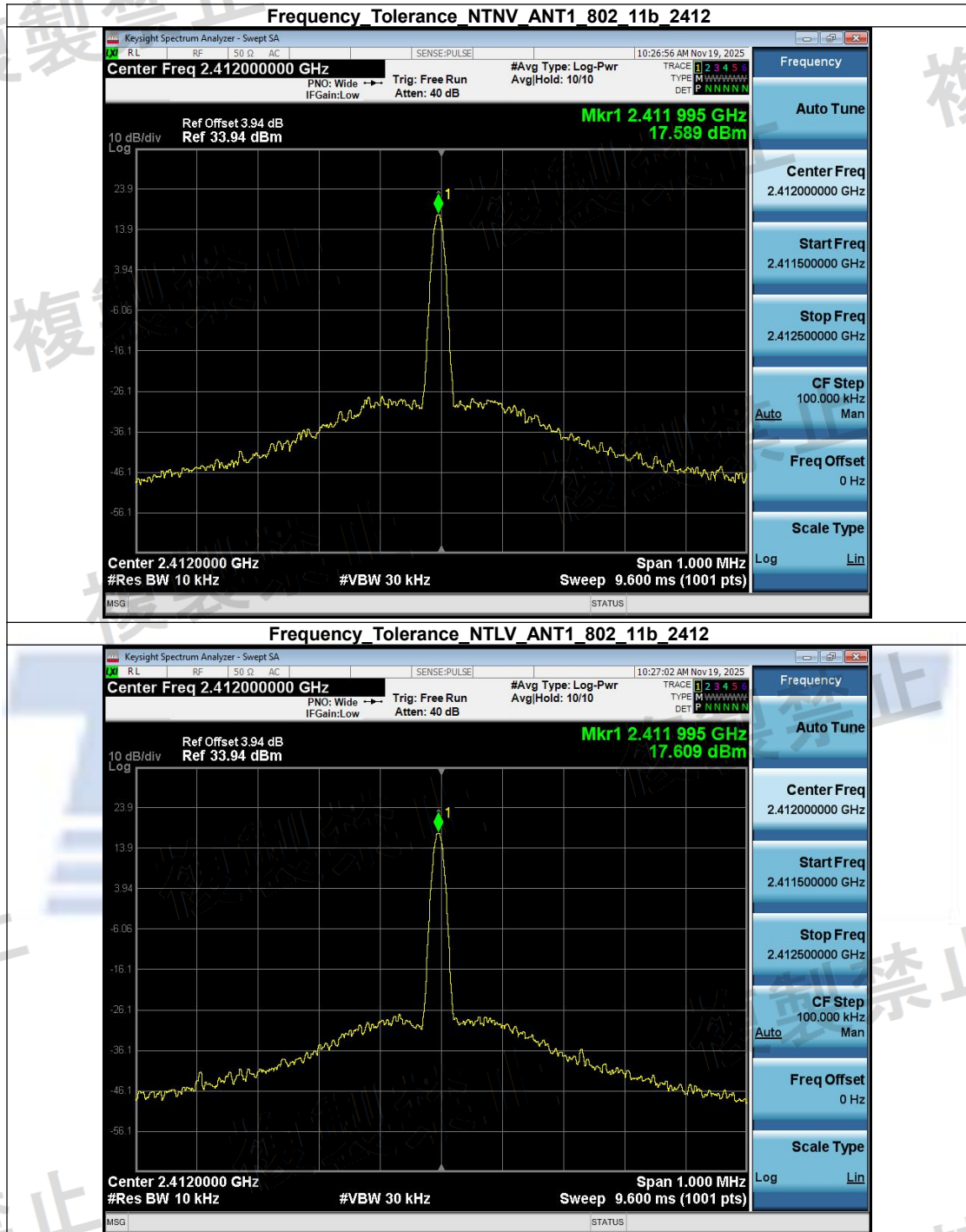
Detector: Peak.

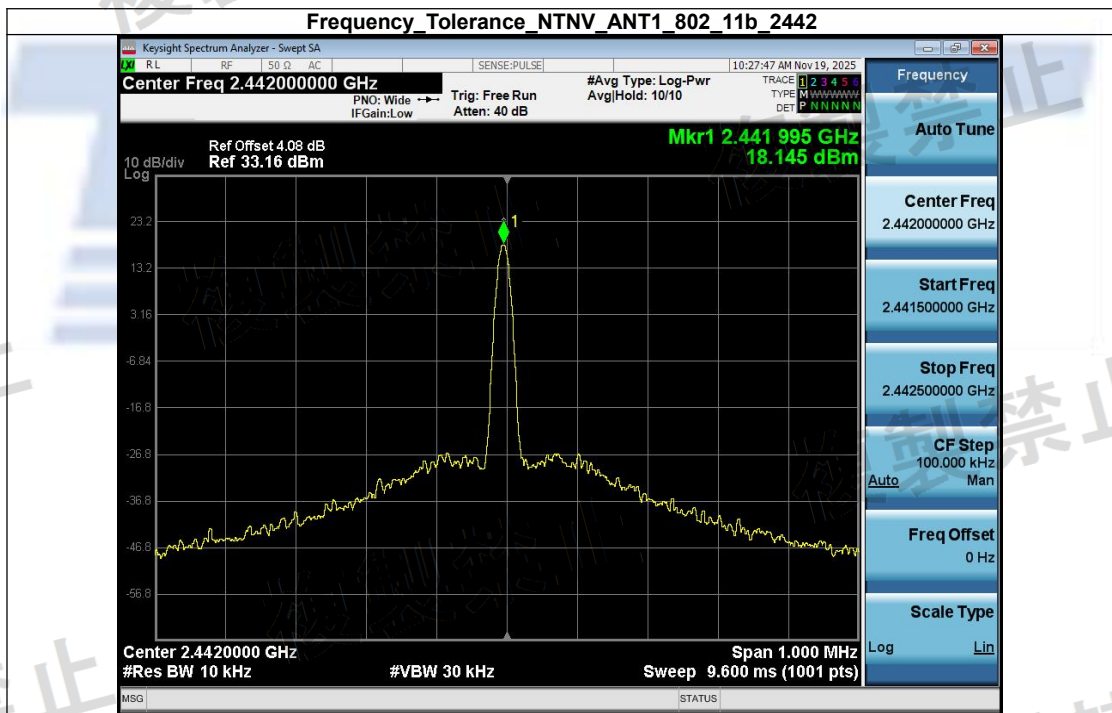
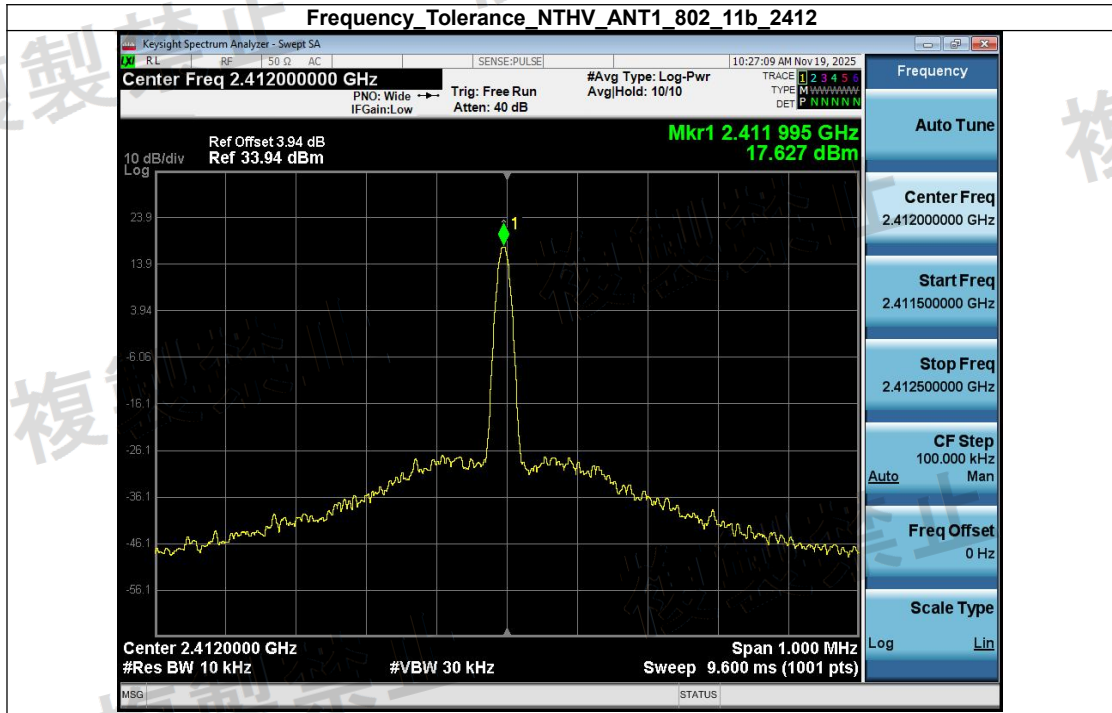
Trace Mode: Max Hold.

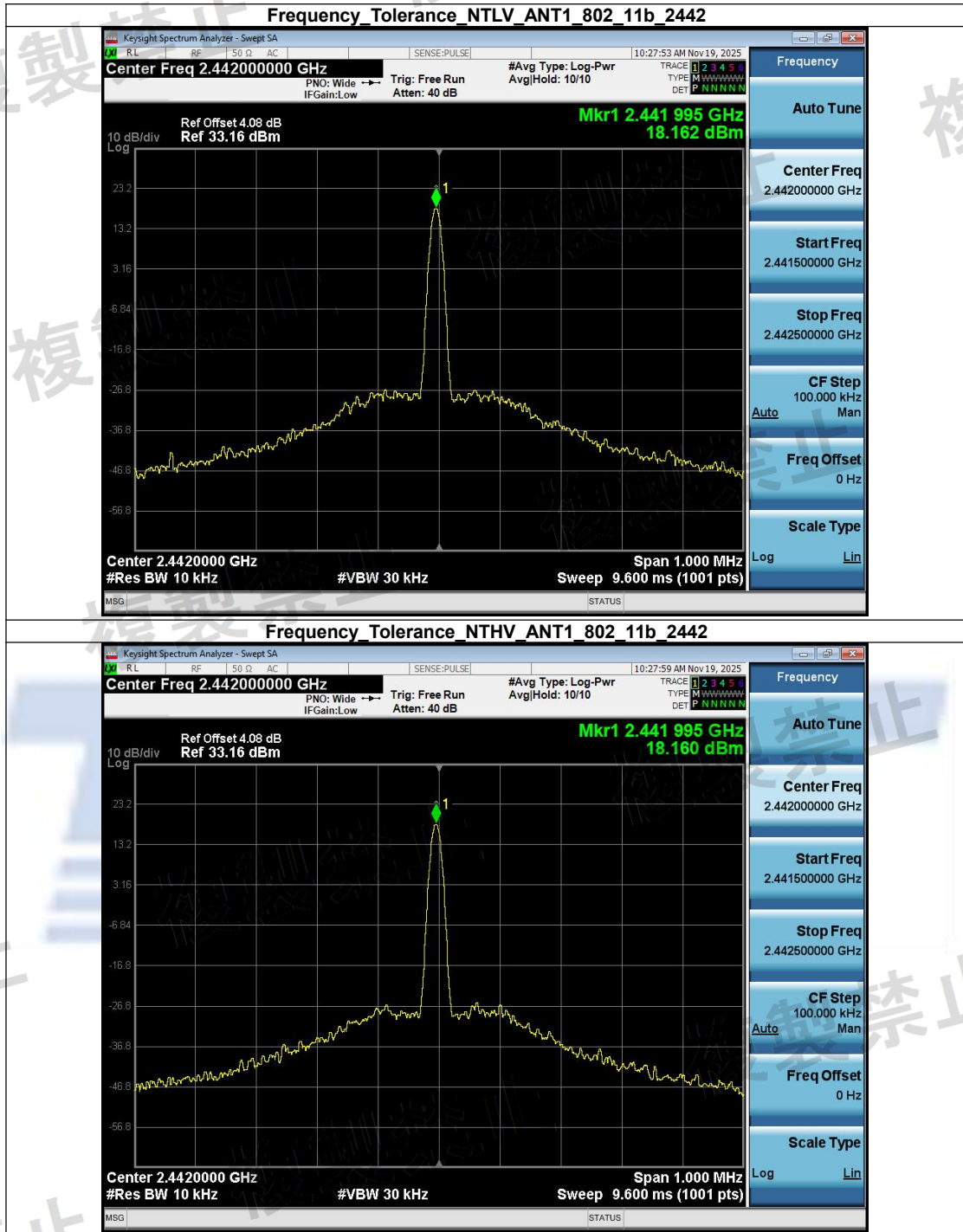
- (4)When the trace is complete, find the peak value of the power envelope and record the frequency.

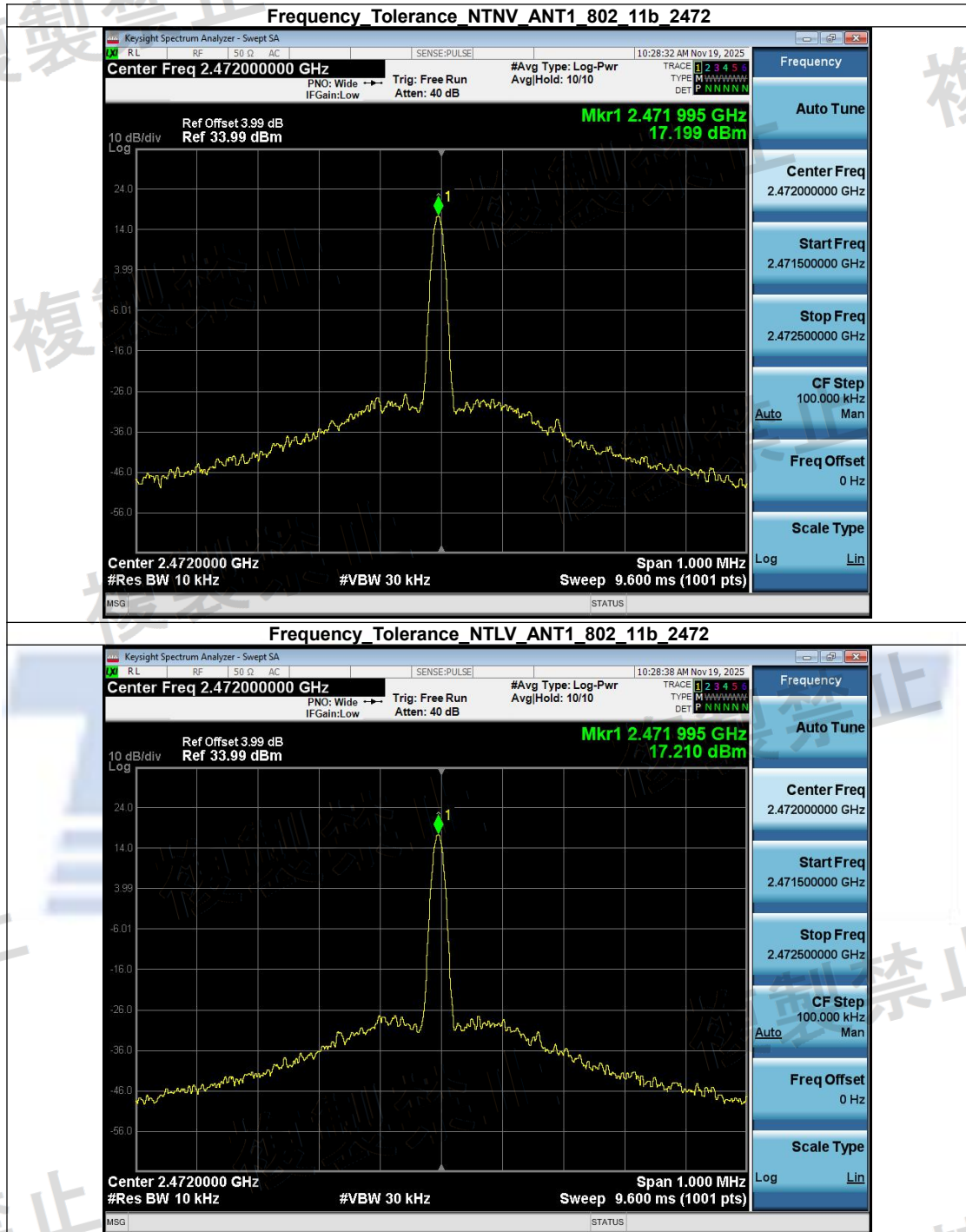
4.5. Test result

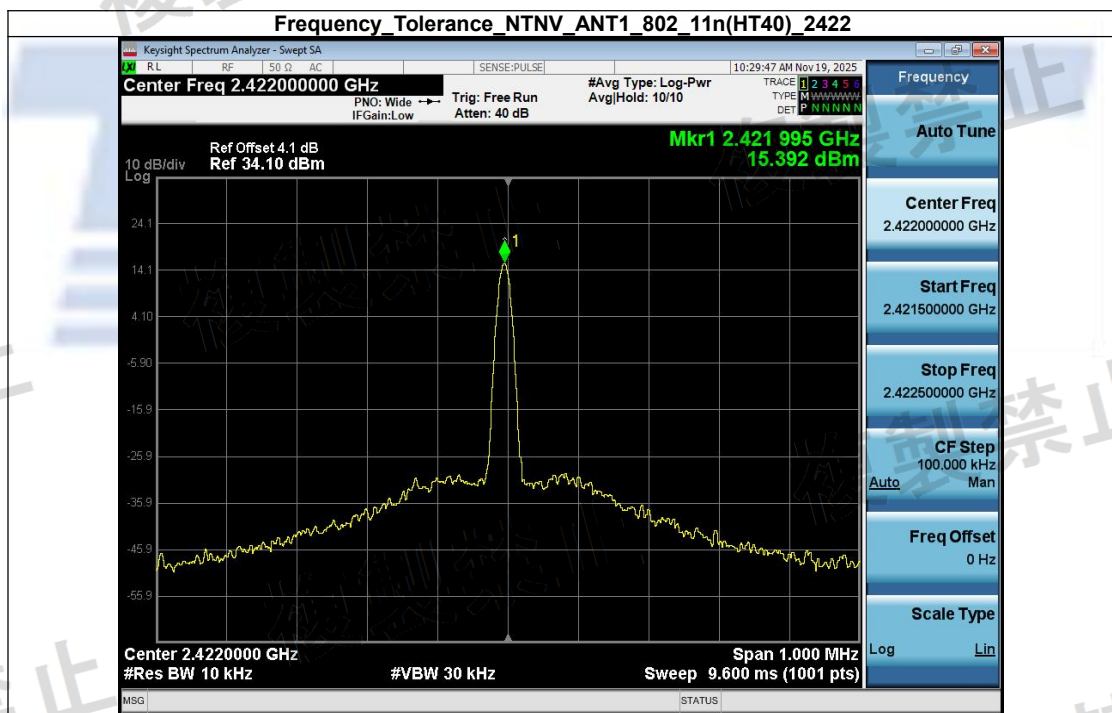
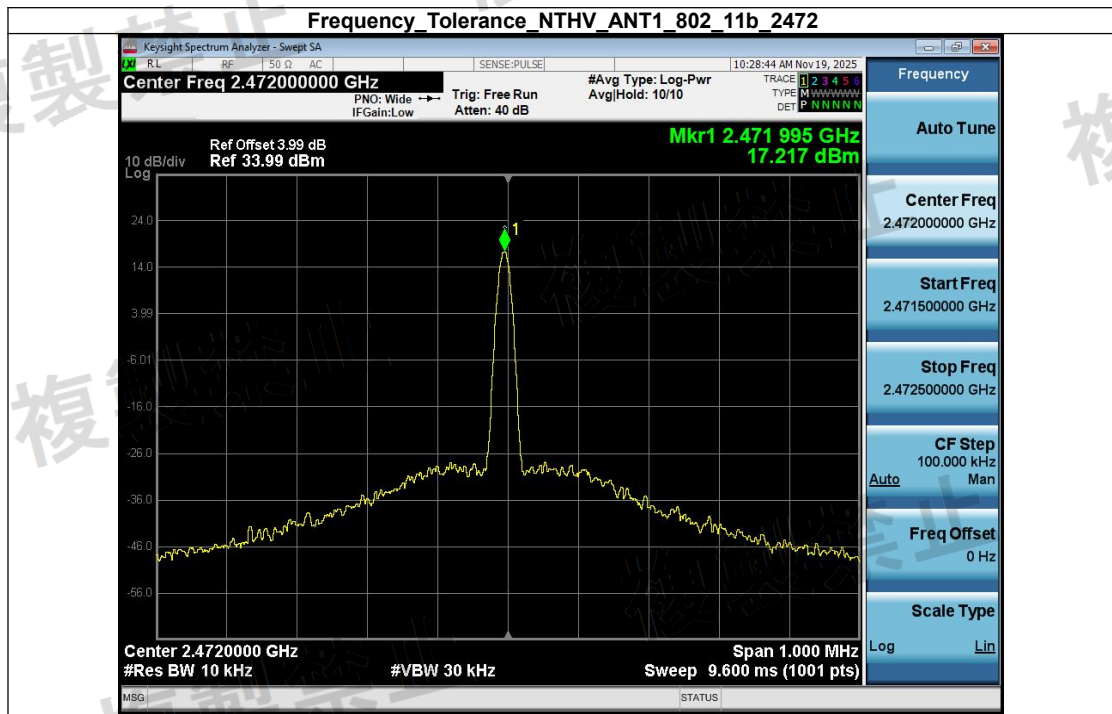
Condition	Antenna	Modulation	Frequency (MHz)	Test Frequency(MHz)	Frequency Tolerance(ppm)	Limit(ppm)	Result
NTNV	ANT1	un-modulation	2412.000000	2411.995	-2.073	±50	Pass
NTLV	ANT1	un-modulation	2412.000000	2411.995	-2.073	±50	Pass
NTHV	ANT1	un-modulation	2412.000000	2411.995	-2.073	±50	Pass
NTNV	ANT1	un-modulation	2442.000000	2441.995	-2.048	±50	Pass
NTLV	ANT1	un-modulation	2442.000000	2441.995	-2.048	±50	Pass
NTHV	ANT1	un-modulation	2442.000000	2441.995	-2.048	±50	Pass
NTNV	ANT1	un-modulation	2472.000000	2471.995	-2.023	±50	Pass
NTLV	ANT1	un-modulation	2472.000000	2471.995	-2.023	±50	Pass
NTHV	ANT1	un-modulation	2472.000000	2471.995	-2.023	±50	Pass
NTNV	ANT1	un-modulation	2422.000000	2421.995	-2.064	±50	Pass
NTLV	ANT1	un-modulation	2422.000000	2421.995	-2.064	±50	Pass
NTHV	ANT1	un-modulation	2422.000000	2421.995	-2.064	±50	Pass
NTNV	ANT1	un-modulation	2442.000000	2441.995	-2.048	±50	Pass
NTLV	ANT1	un-modulation	2442.000000	2441.995	-2.048	±50	Pass
NTHV	ANT1	un-modulation	2442.000000	2441.995	-2.048	±50	Pass
NTNV	ANT1	un-modulation	2462.000000	2461.995	-2.031	±50	Pass
NTLV	ANT1	un-modulation	2462.000000	2461.995	-2.031	±50	Pass
NTHV	ANT1	un-modulation	2462.000000	2461.995	-2.031	±50	Pass

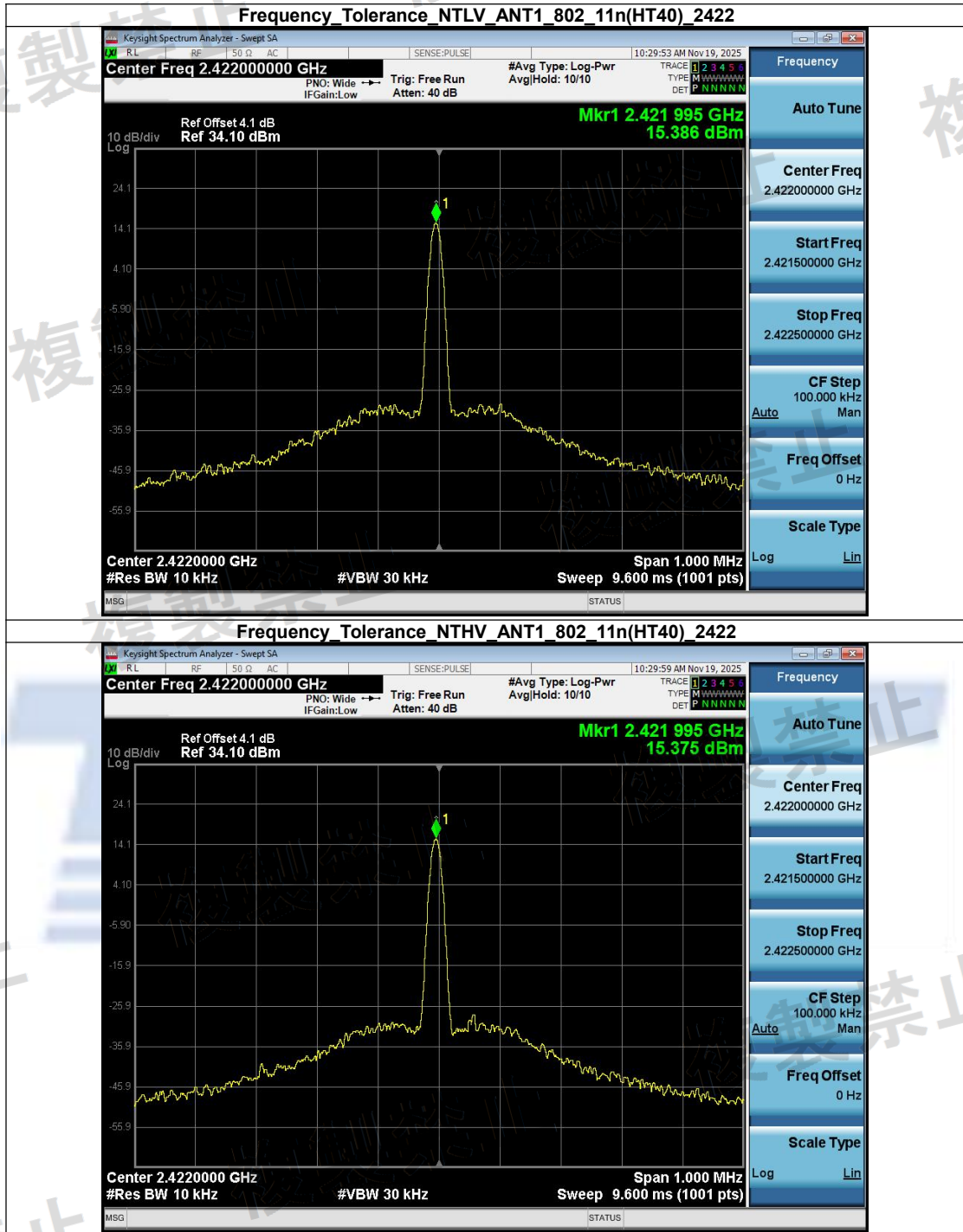


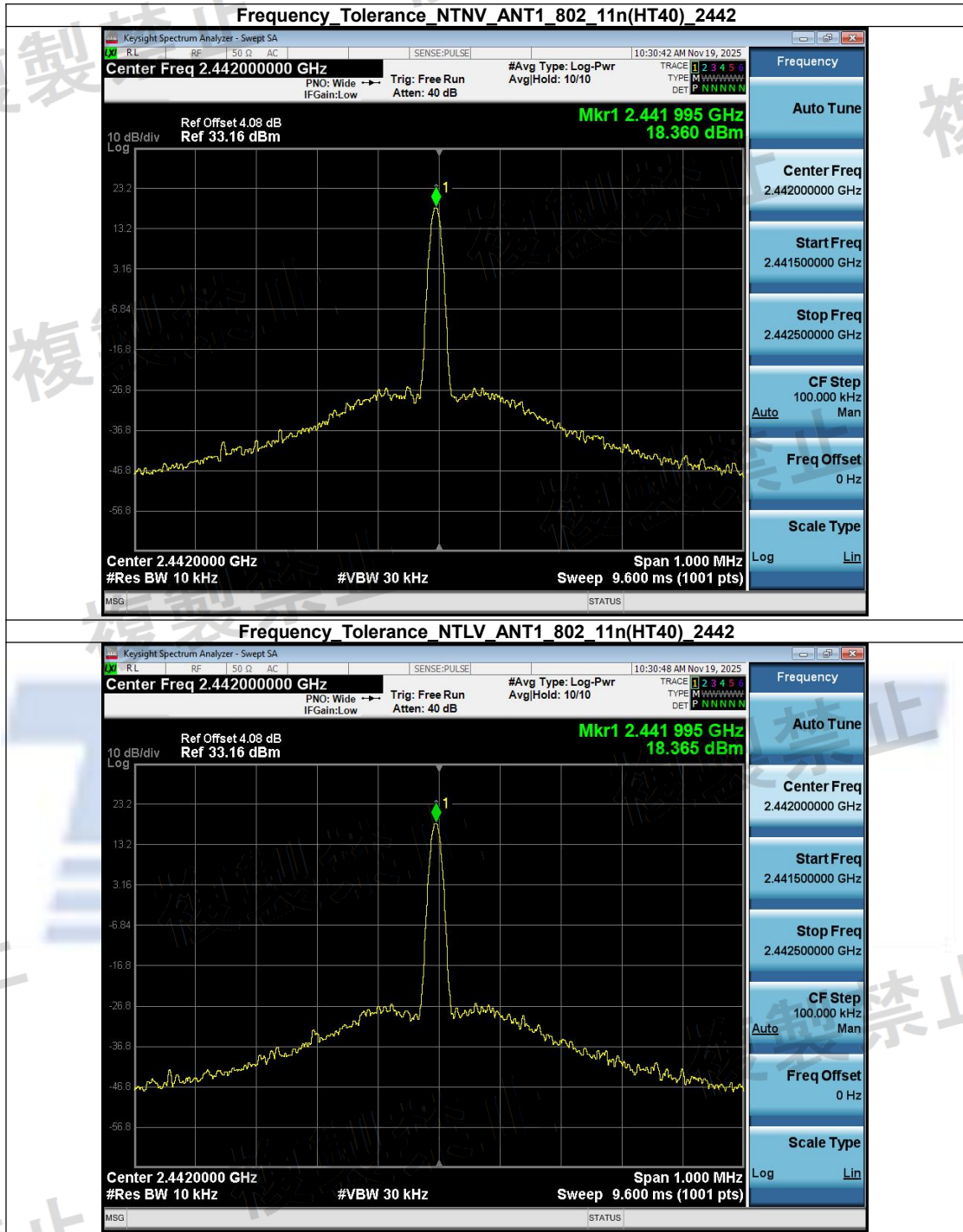


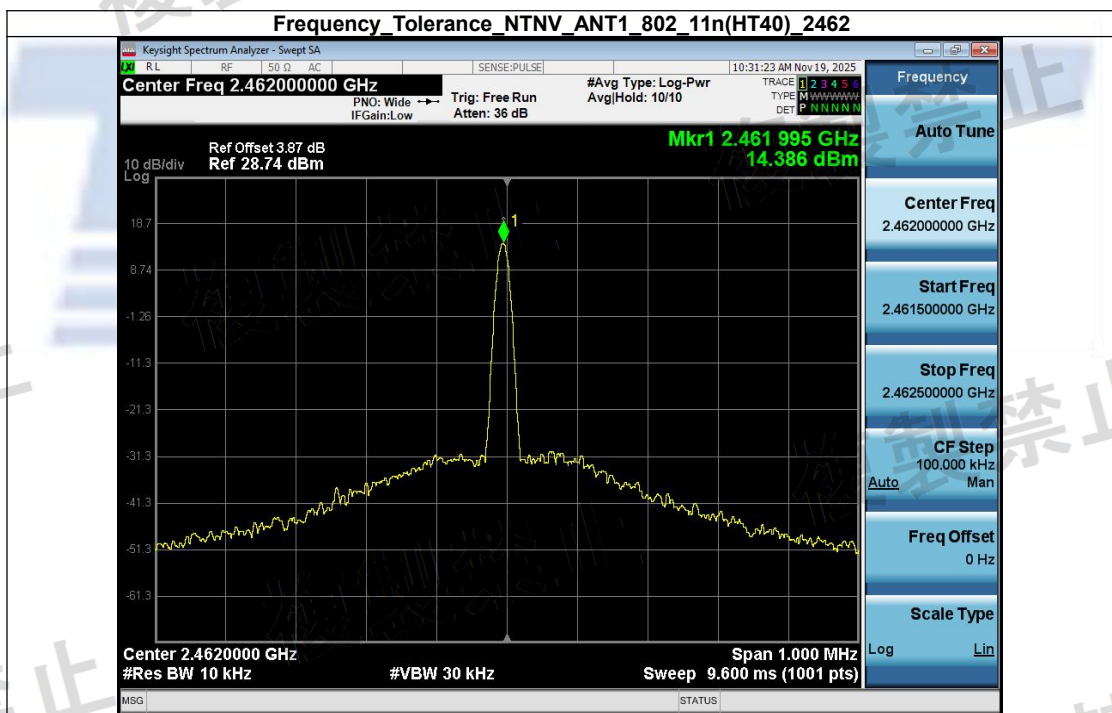
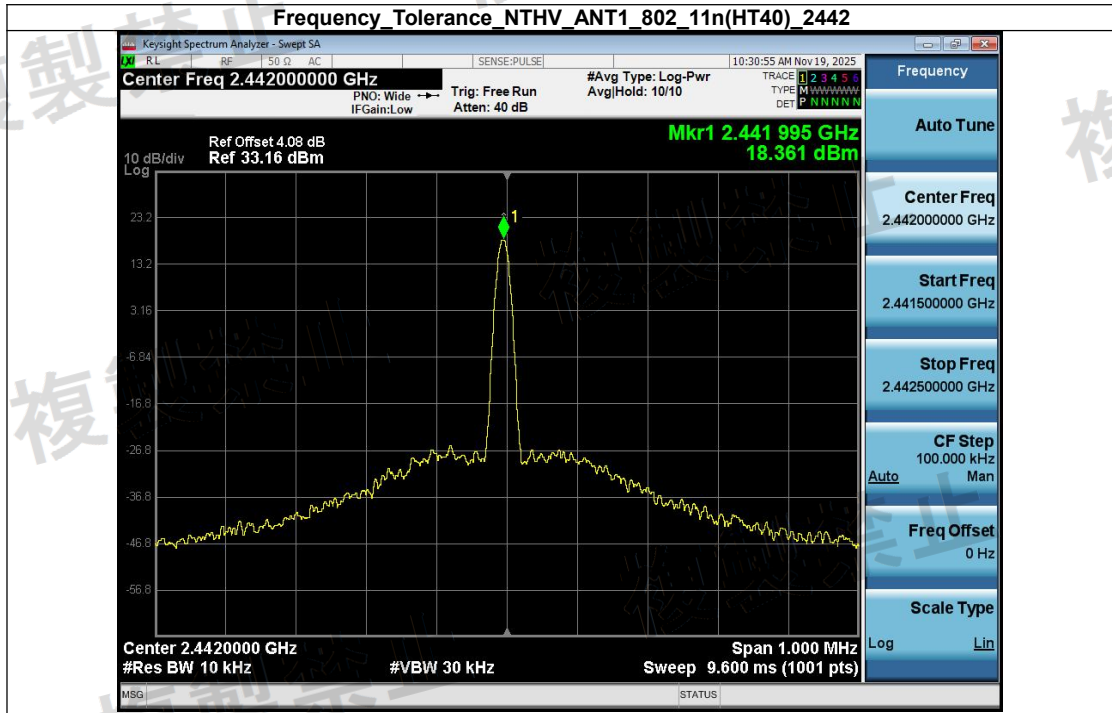


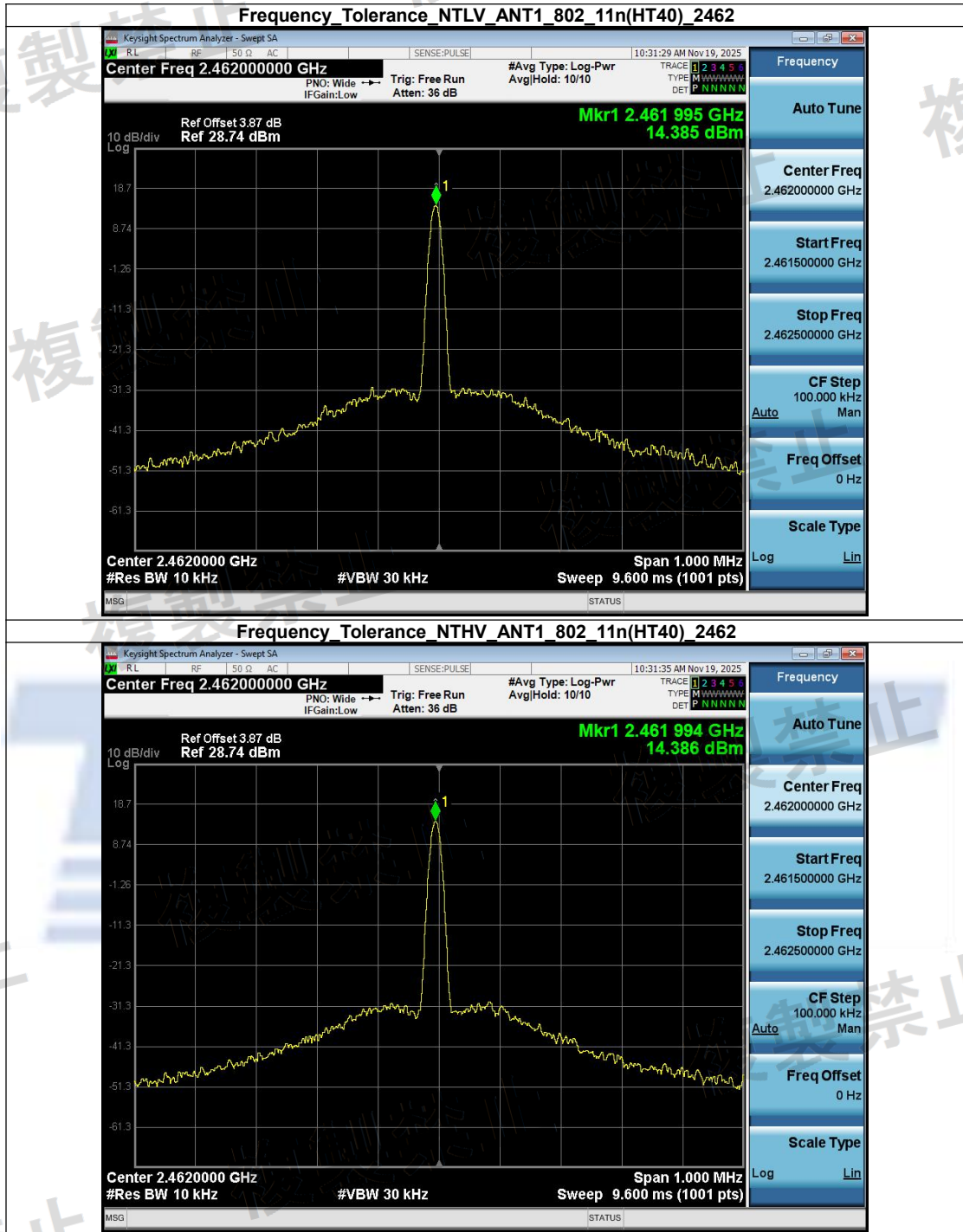












5. Occupied Frequency Bandwidth

5.1. Test Equipment

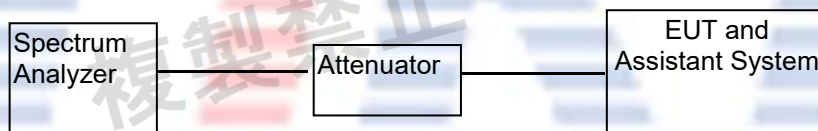
Item	Type	Manufacturer	Model No.	Serial No.	Last Calibration	Due Calibration
1	Spectrum analyzer	Agilent	N9020A	MY54488989	2025/11/10	2026/11/09
2	Spectrum analyzer	ROHDE&SCHWARZ	FSU26	200732	2025/11/10	2026/11/09
3	Attenuator	SCHWARZBECK	DGA 9552N	3161	2025/10/17	2026/10/16

Note: The test equipment is calibrated by Huajue Medical Testing and Metrology (Shenzhen) Co., Ltd. Calibration standard: Article 24-2, Paragraph 4 of the Radio Act, method c

5.2. Limit

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

5.3. Block diagram of test setup



5.4. Test Procedure

- (1) Configure EUT and assistant system according clause 2.3 and 5.3
- (2) Set EUT work in test mode as described in clause 2.4
- (3) Connected the EUT's antenna port to the Spectrum Analyzer by suitable attenuator, set the Spectrum Analyzer as below:

Centre Frequency: The centre frequency of the channel under test.

Resolution BW: 300 KHz

Video BW: 300 KHz

Span: Wide enough to cover the complete power envelope of the signal of the EUT.

Detector: Peak.

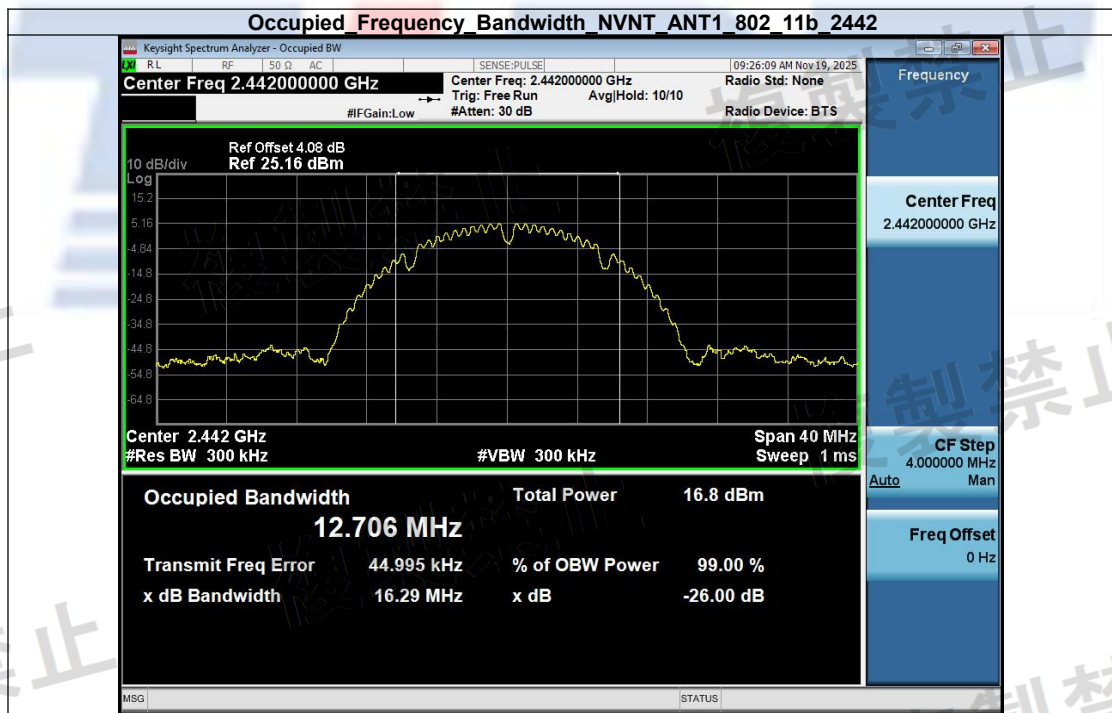
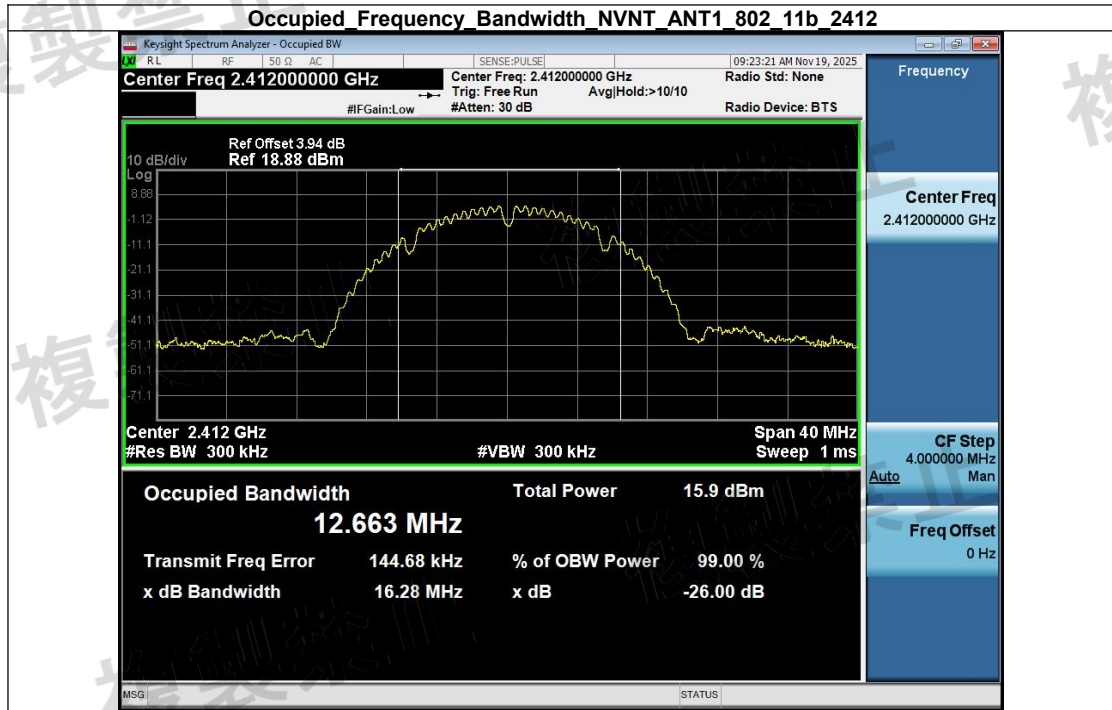
Trace Mode: Max Hold.

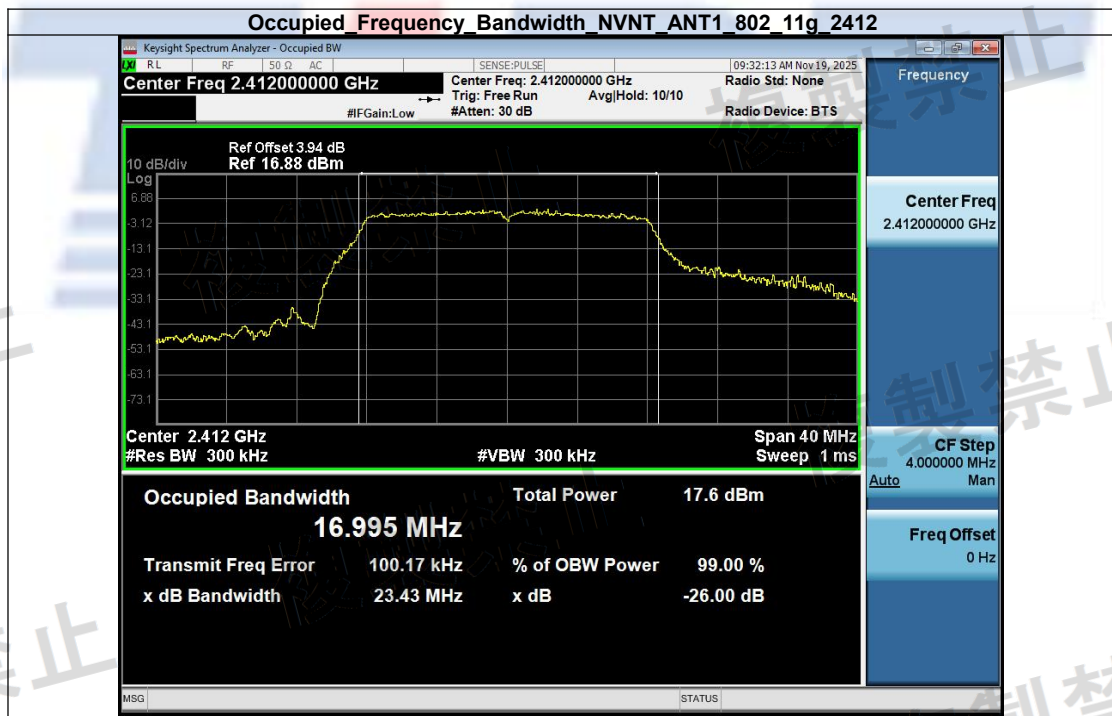
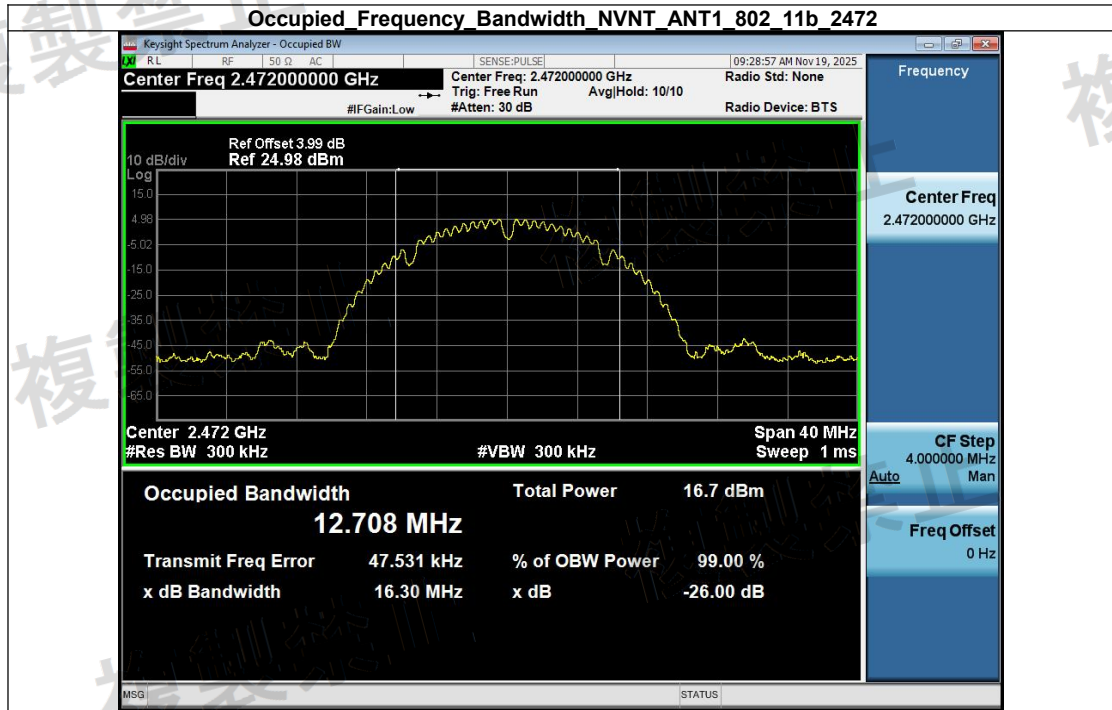
- (4) When the trace is complete, measure the occupied bandwidth (99% bandwidth) with spectrum analyzer's bandwidth measure function.

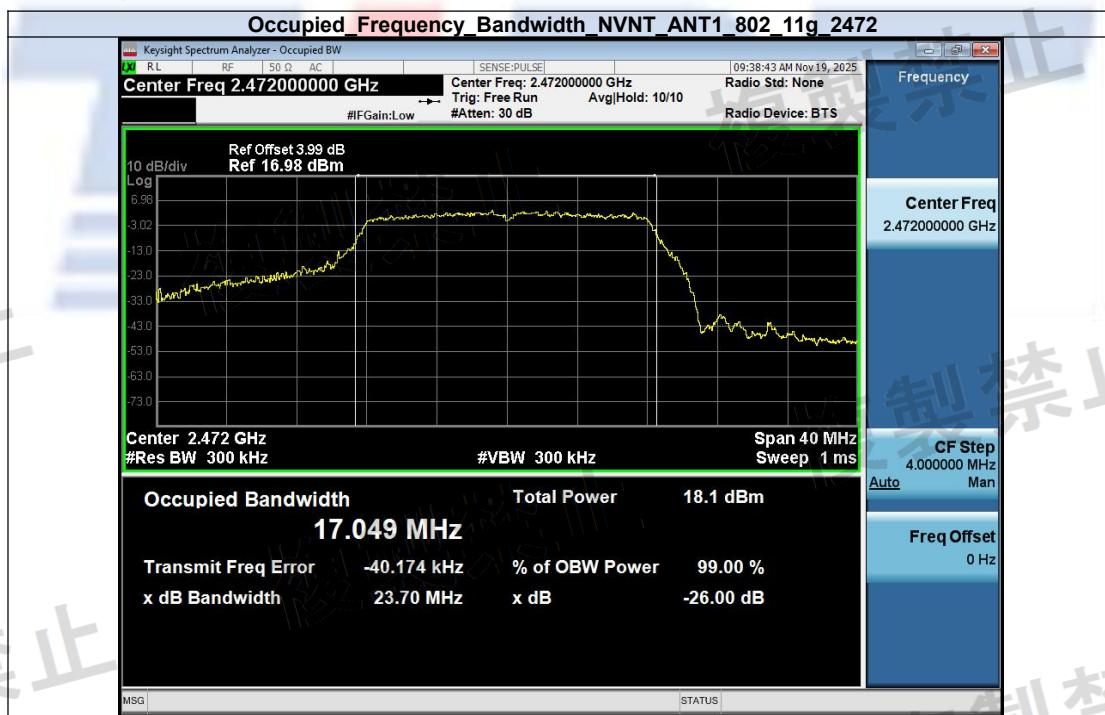
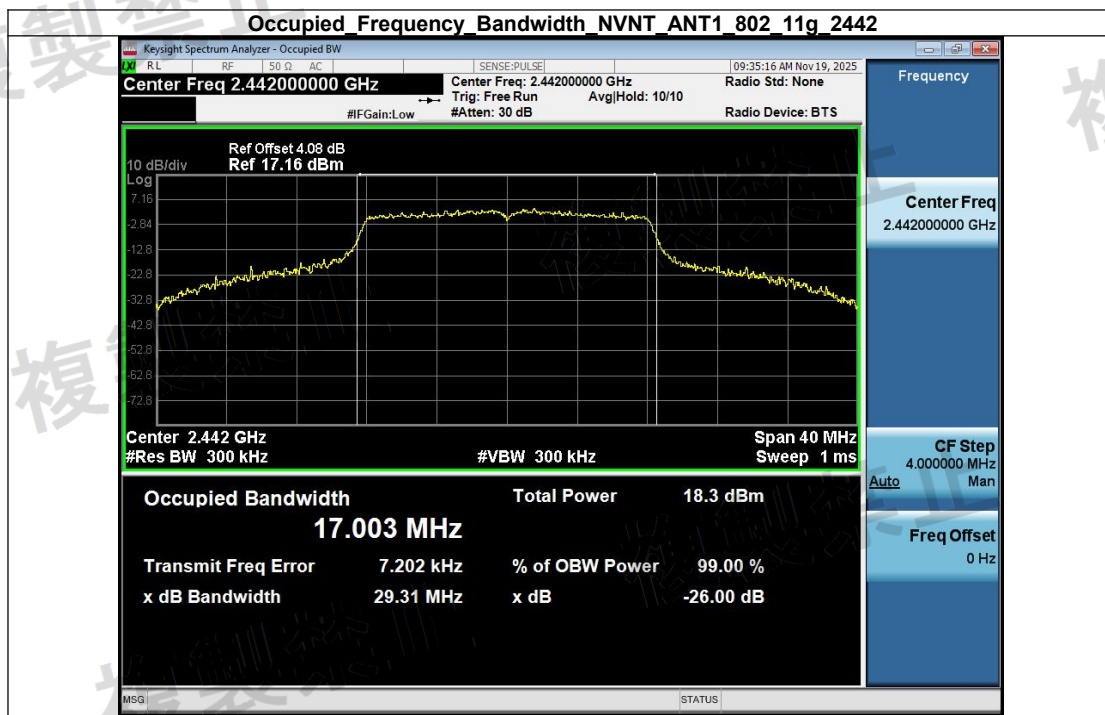
5.5. Test result

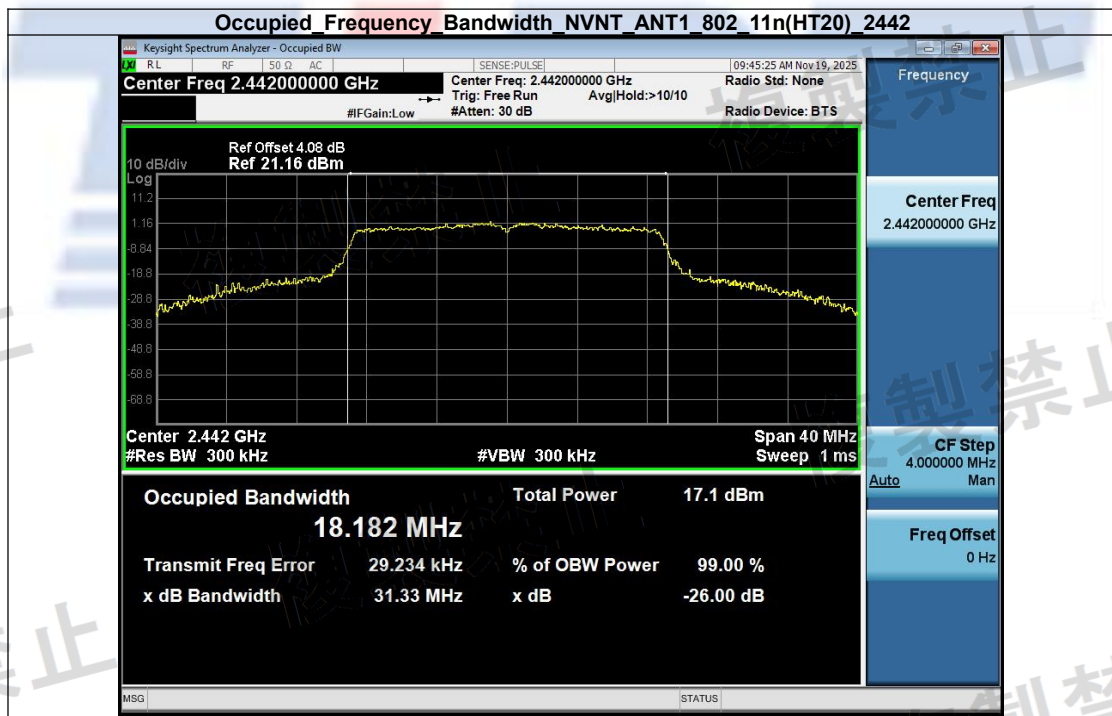
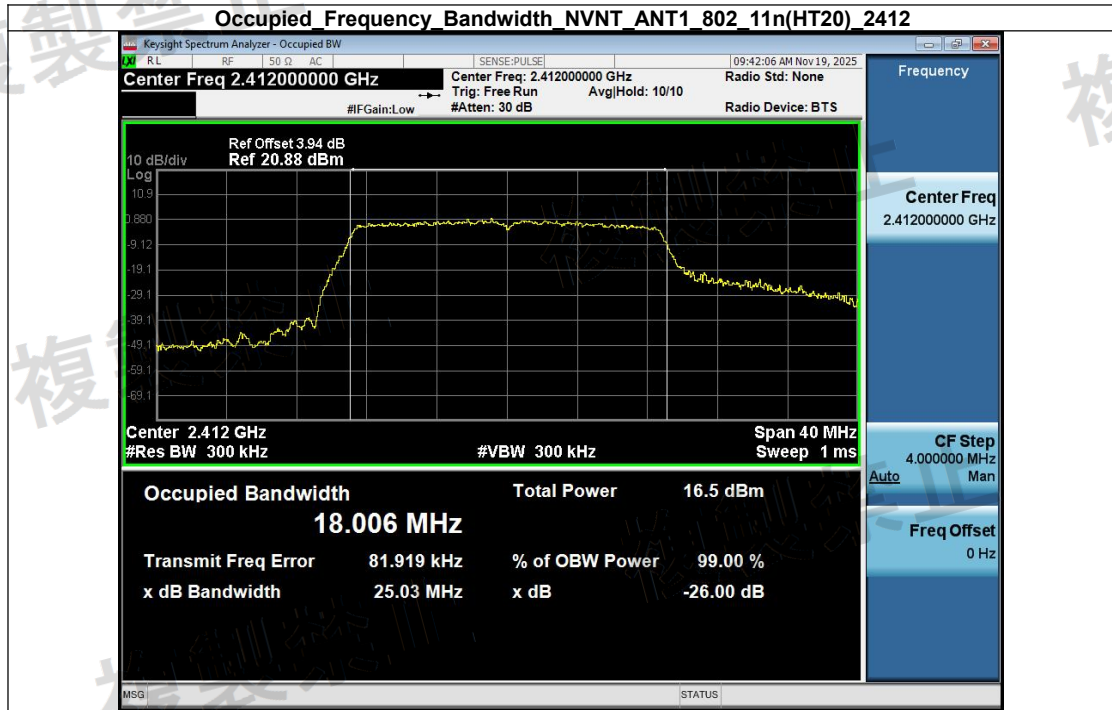
Condition	Antenna	Mode	Frequency(MHz)	Occupied Bandwidth(MHz)	Limit(MHz)	Result
NVNT	ANT1	802.11b	2412.00	12.66	<26	Pass
NVNT	ANT1	802.11b	2442.00	12.71	<26	Pass
NVNT	ANT1	802.11b	2472.00	12.71	<26	Pass
NVNT	ANT1	802.11g	2412.00	16.99	<26	Pass
NVNT	ANT1	802.11g	2442.00	17.00	<26	Pass
NVNT	ANT1	802.11g	2472.00	17.05	<26	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	18.01	<26	Pass
NVNT	ANT1	802.11n(HT20)	2442.00	18.18	<26	Pass
NVNT	ANT1	802.11n(HT20)	2472.00	18.02	<26	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	36.18	26~40	Pass
NVNT	ANT1	802.11n(HT40)	2442.00	36.26	26~40	Pass
NVNT	ANT1	802.11n(HT40)	2462.00	36.17	26~40	Pass

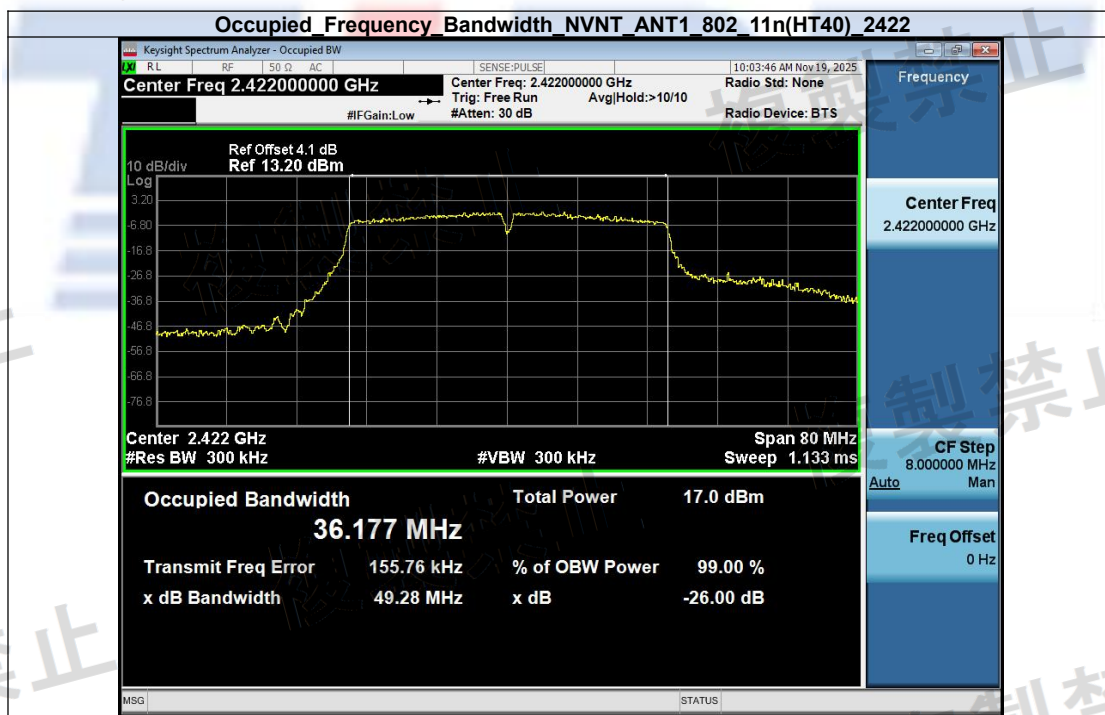
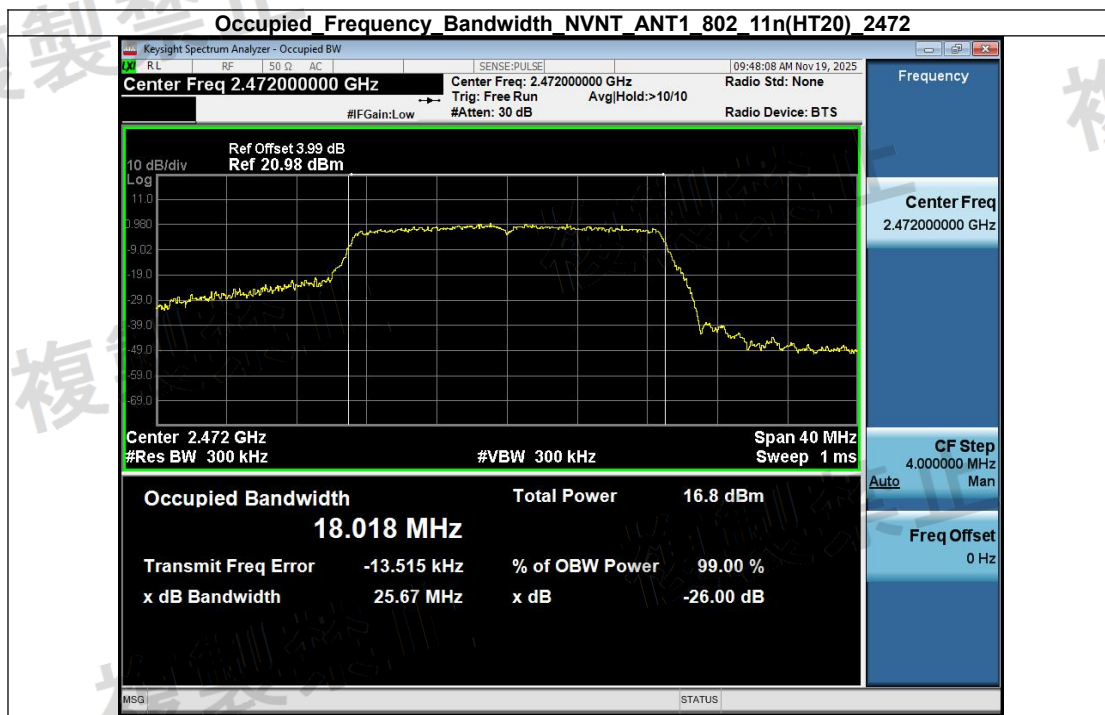


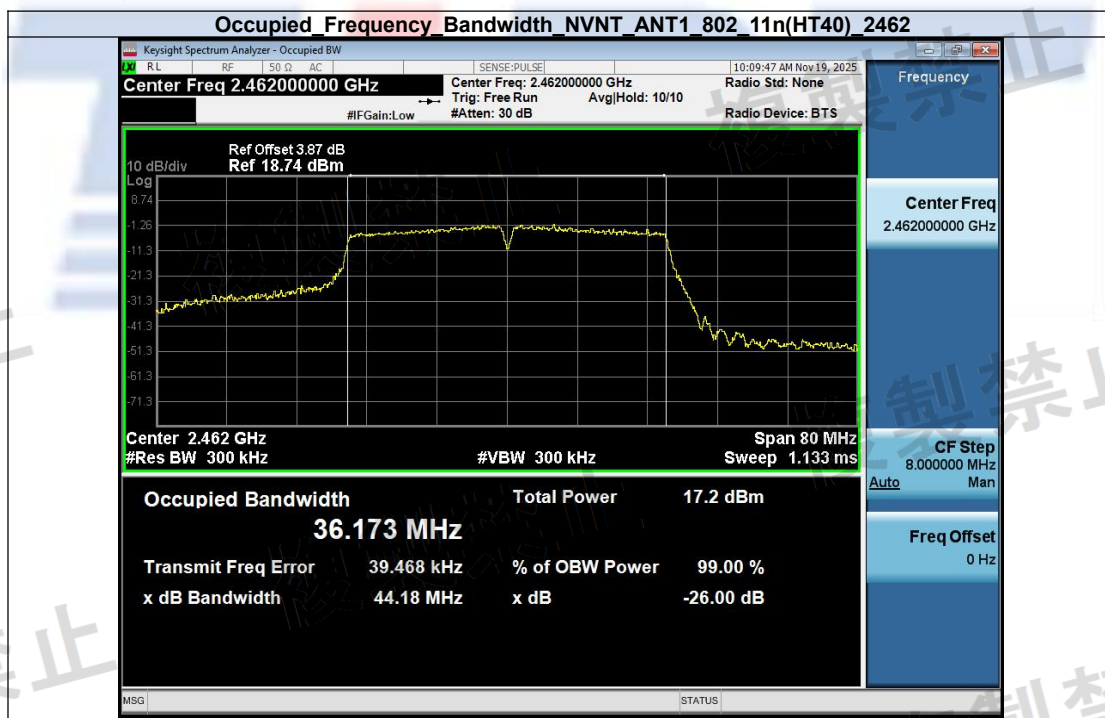
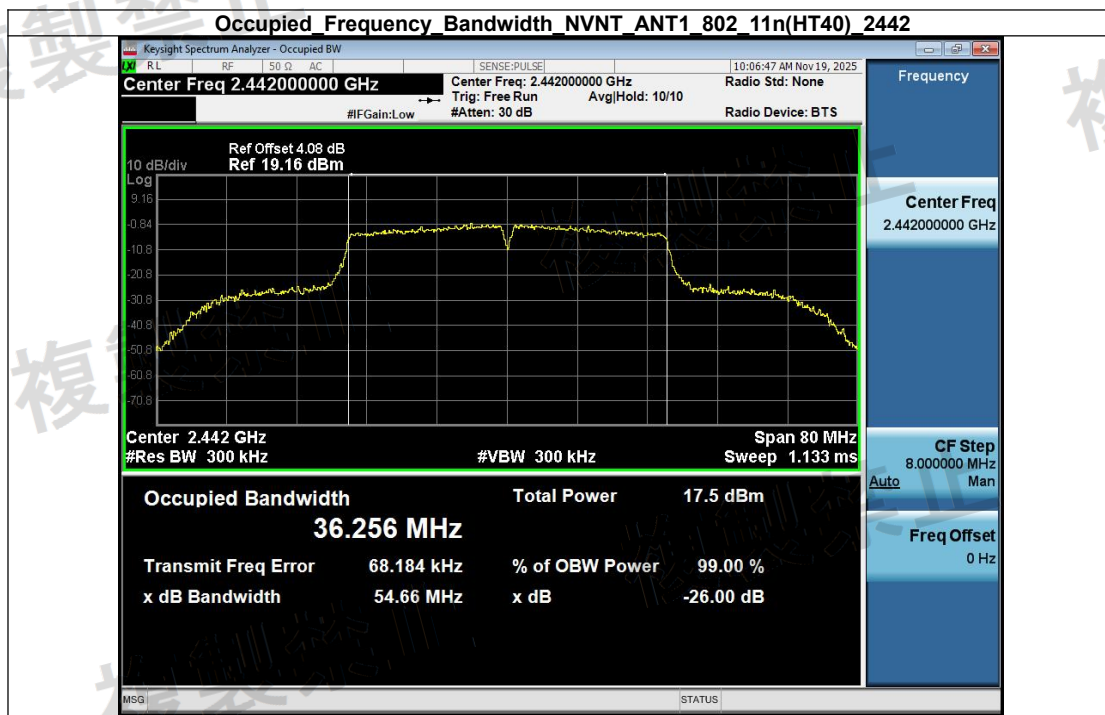












6. Transmitter Spurious Emissions (conducted)

6.1. Test Equipment

Item	Type	Manufacturer	Model No.	Serial No.	Last Calibration	Due Calibration
1	Spectrum analyzer	Agilent	N9020A	MY54488989	2025/11/10	2026/11/09
2	Spectrum analyzer	ROHDE&SCHWARZ	FSU26	200732	2025/11/10	2026/11/09
3	Attenuator	SCHWARZBECK	DGA 9552N	3161	2025/10/17	2026/10/16

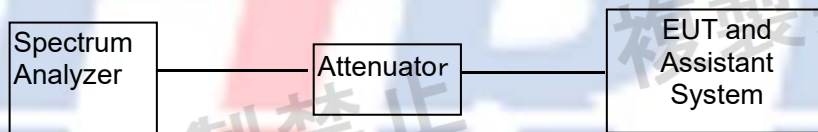
Note: The test equipment is calibrated by Huajue Medical Testing and Metrology (Shenzhen) Co., Ltd. Calibration standard: Article 24-2, Paragraph 4 of the Radio Act, method c

6.2. Limit

Permissible mean power of spurious emission of each frequency supplied to a feeder, that is, mean power of spurious emission in the 1 MHz bandwidth at frequency f other than frequency band used shall be as follows:

- $2,387\text{MHz} \leq f \leq 2,400\text{MHz}$ and $2,483.5\text{MHz} < f \leq 2,496.5\text{MHz}$ 25 μW or less
- $2,387\text{MHz} > f$ and $2,496.5\text{MHz} < f$ 2.5 μW or less

6.3. Block diagram of test setup



6.4. Test Procedure

- Configure EUT and assistant system according clause 2.3 and 7.3
- Set EUT work in test mode as described in clause 2.4
- Connected the EUT's antenna port to the Spectrum Analyzer by suitable attenuator, set the Spectrum Analyzer as below:

Below 1GHz: Resolution BW: 1MHz.
Video BW: 1MHz.
Detector: Peak.
Trace Mode: Max Hold.

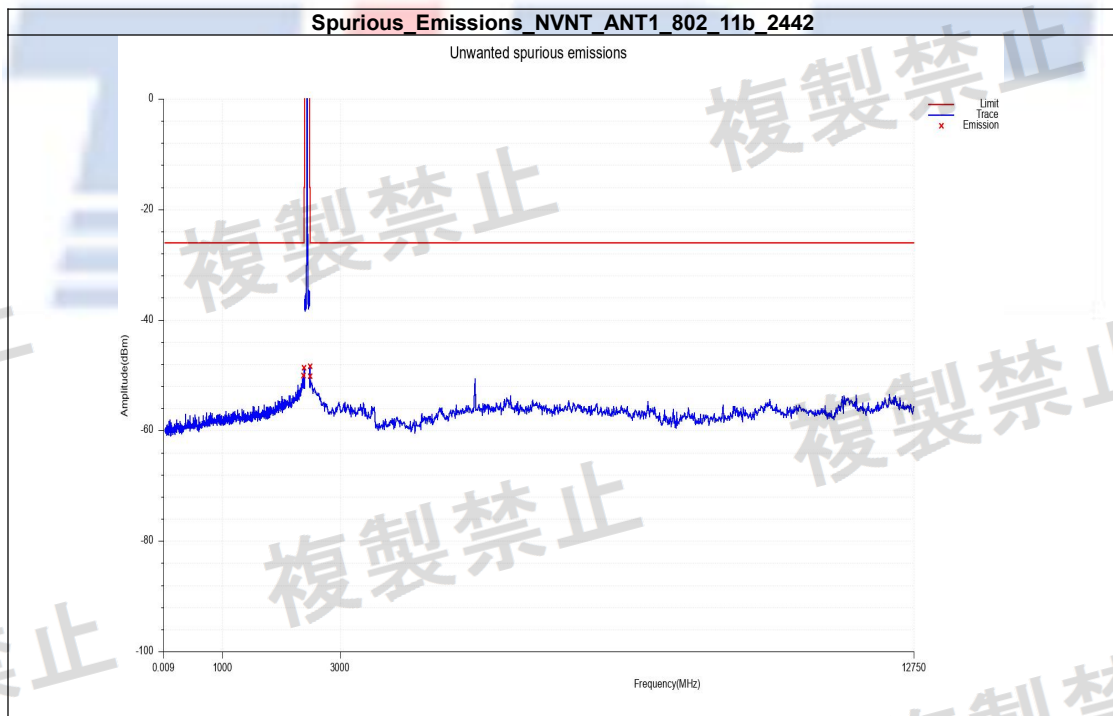
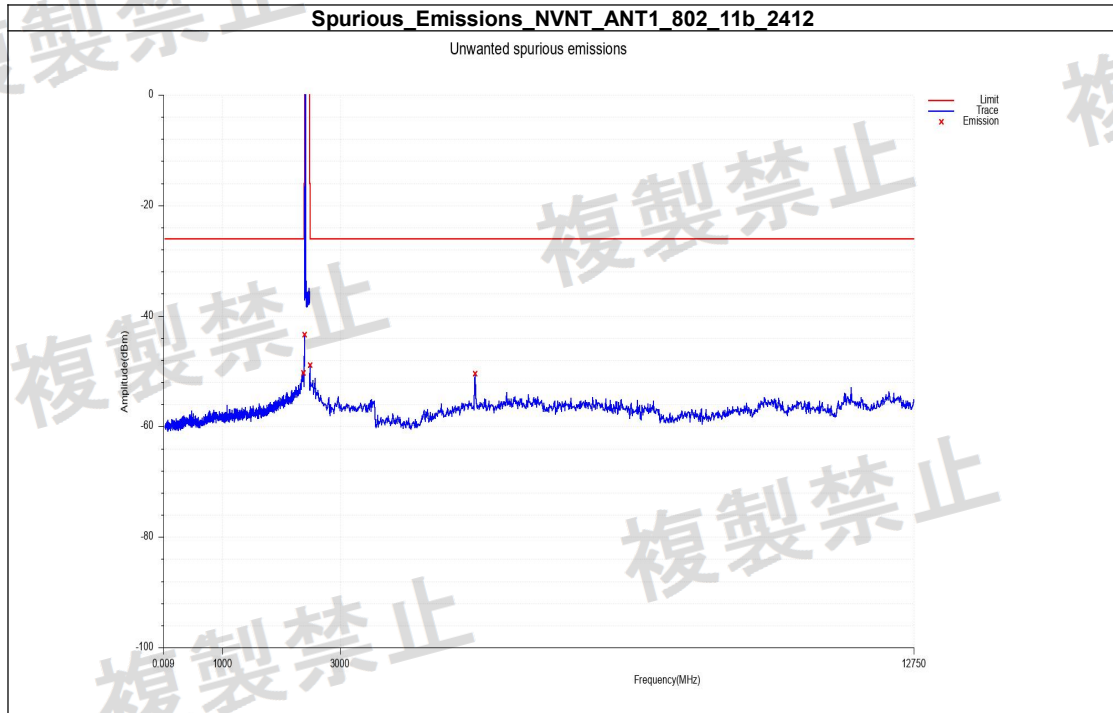
Above 1GHz: Resolution BW: 1MHz.
Video BW: 1MHz.
Detector: Peak.
Trace Mode: Max Hold.

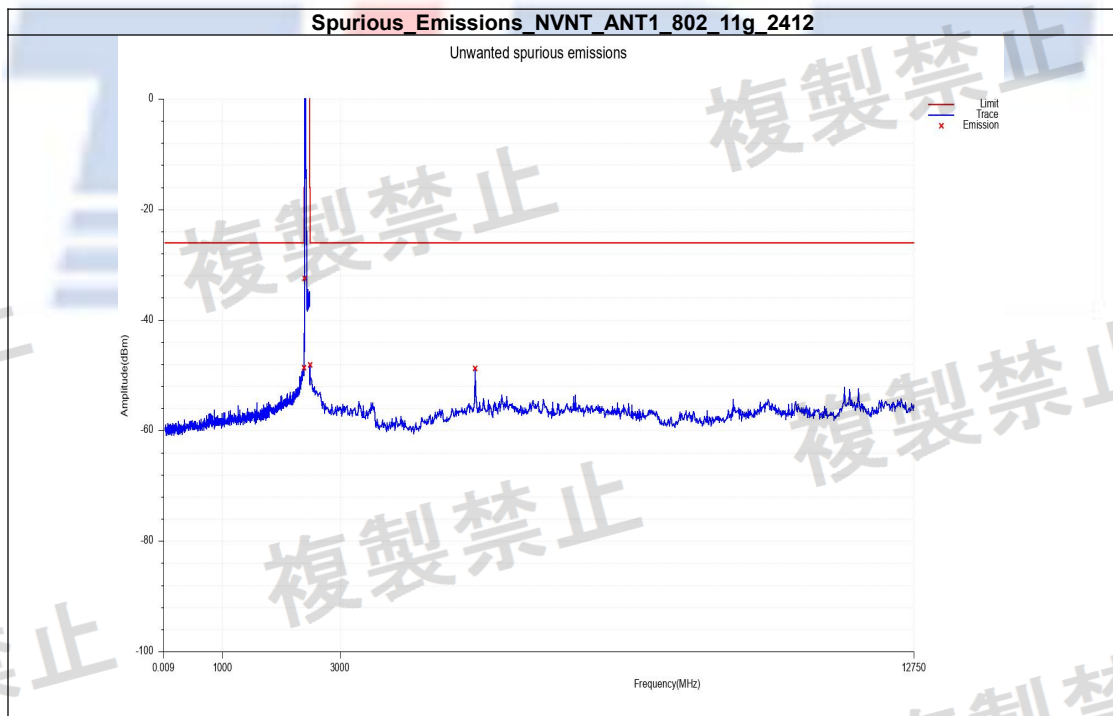
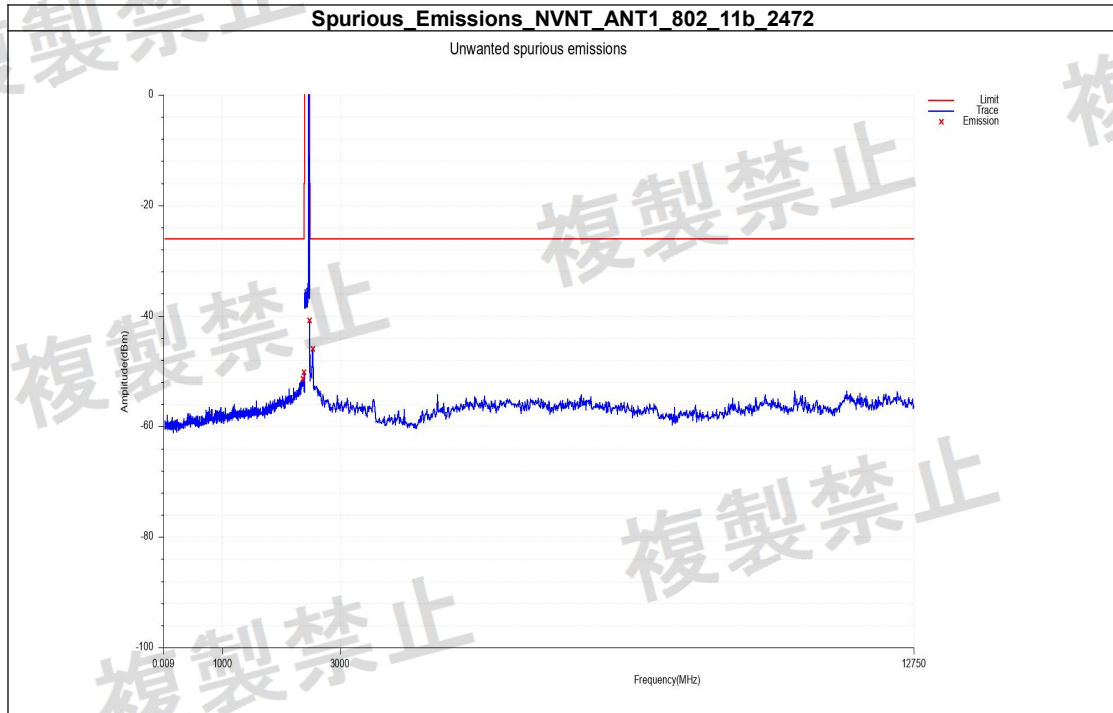
- All the emissions from 30MHz to 13GHz were measured and record.

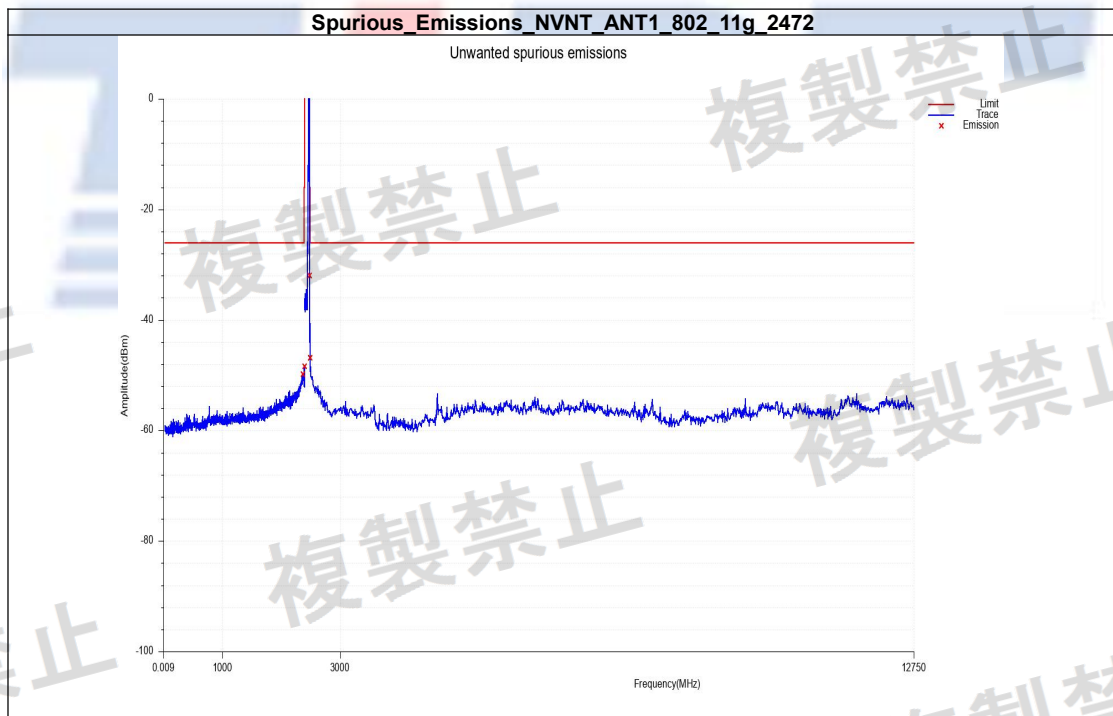
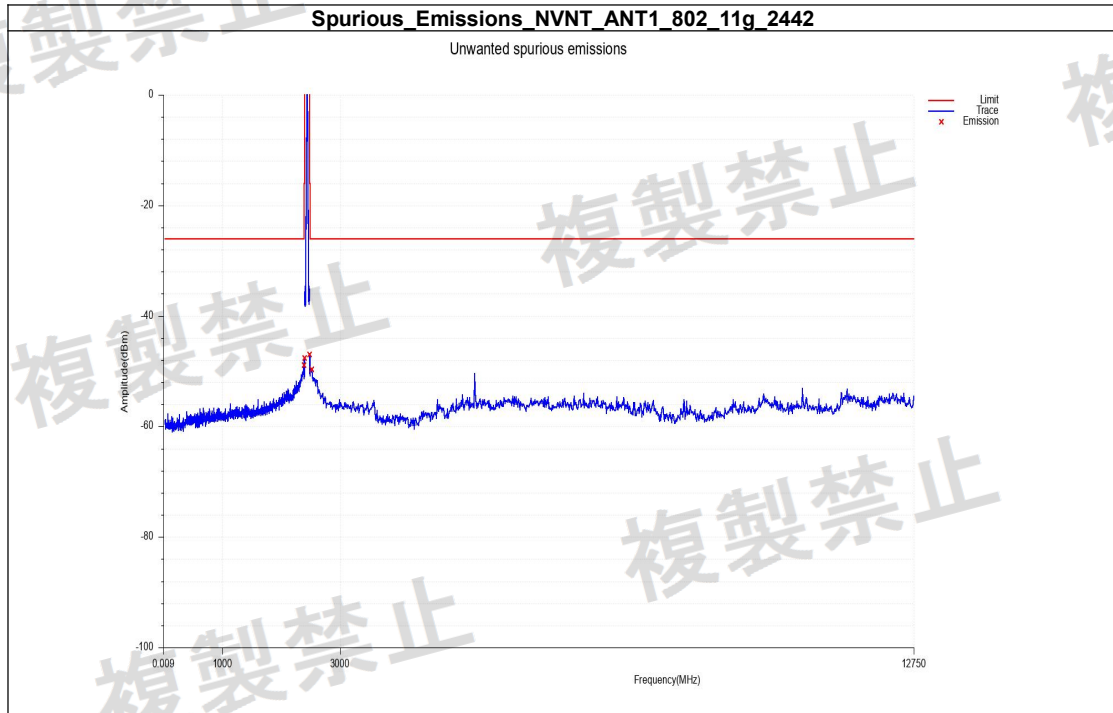
6.5. Test result

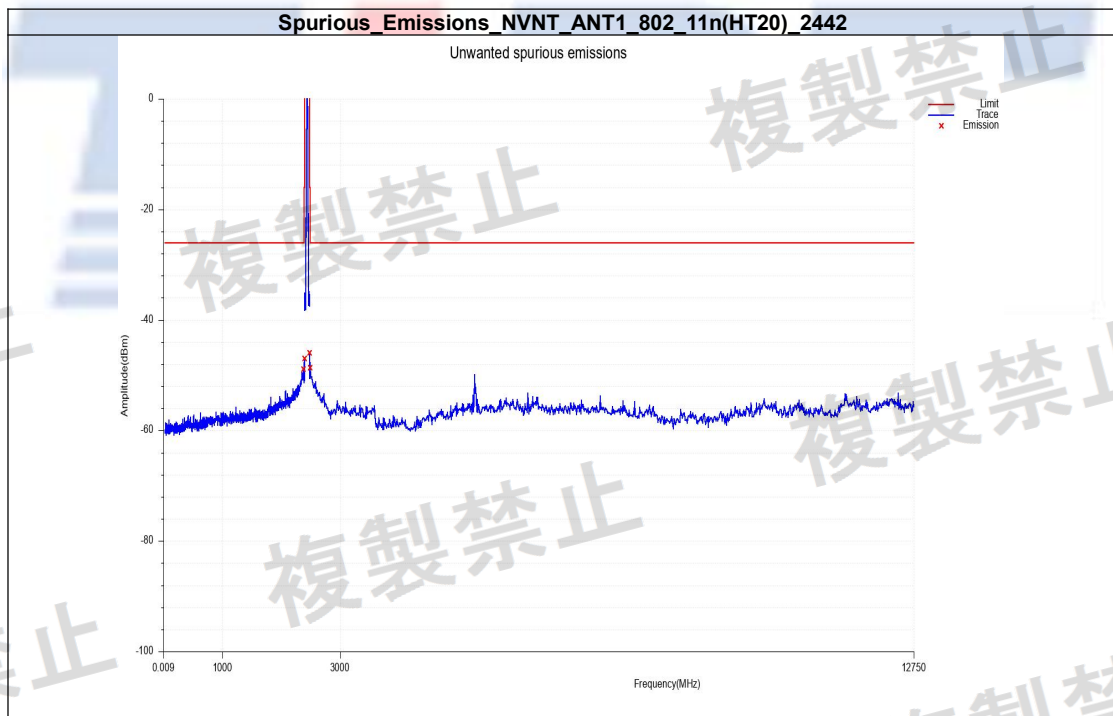
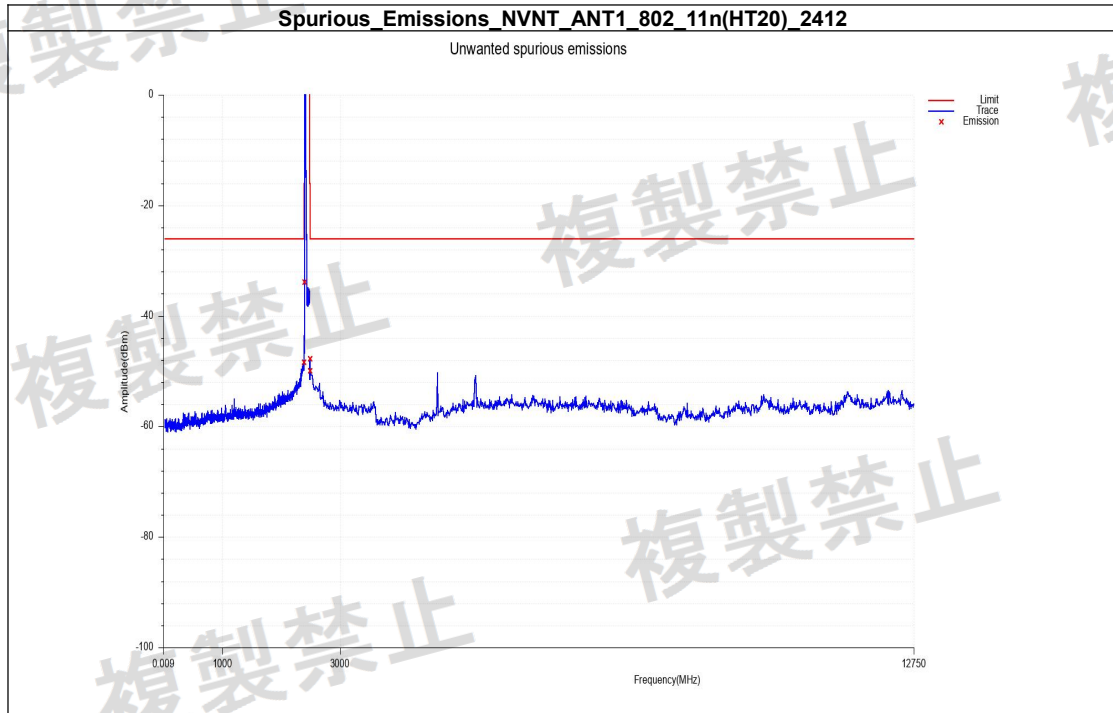
Condition	Antenna	Mode	Frequency (MHz)	Frequency Area(MHz)	RBW(kHz)	Spur. Fre. (MHz)	Spur. Level(dB m/MHz)	Limit(dB m/MHz)	Spur. Level	Llimit	Result
NVNT	ANT1	802.11b	2412.00	30.00~2387.00	1000	2384.64	-50.26	-26	0.0094 μ W/MHz	2.5 μ W/MHz	Pass
NVNT	ANT1	802.11b	2412.00	2387.00~2400.00	1000	2398.69	-43.44	-16	0.0452 μ W/MHz	25 μ W/MHz	Pass
NVNT	ANT1	802.11b	2412.00	2400.00~2483.50	/	/	/	/	/	/	/
NVNT	ANT1	802.11b	2412.00	2483.50~2496.50	1000	2492.03	-48.97	-16	0.0126 μ W/MHz	25 μ W/MHz	Pass
NVNT	ANT1	802.11b	2412.00	2496.50~13000.00	1000	5300.93	-50.42	-26	0.0090 μ W/MHz	2.5 μ W/MHz	Pass
NVNT	ANT1	802.11b	2442.00	30.00~2387.00	1000	2384.64	-50.11	-26	0.0097 μ W/MHz	2.5 μ W/MHz	Pass
NVNT	ANT1	802.11b	2442.00	2387.00~2400.00	1000	2392.66	-48.68	-16	0.0135 μ W/MHz	25 μ W/MHz	Pass
NVNT	ANT1	802.11b	2442.00	2400.00~2483.50	/	/	/	/	/	/	/
NVNT	ANT1	802.11b	2442.00	2483.50~2496.50	1000	2493.16	-48.44	-16	0.0143 μ W/MHz	25 μ W/MHz	Pass
NVNT	ANT1	802.11b	2442.00	2496.50~13000.00	1000	2496.50	-50.24	-26	0.0094 μ W/MHz	2.5 μ W/MHz	Pass
NVNT	ANT1	802.11b	2472.00	30.00~2387.00	1000	2375.22	-51.41	-26	0.0072 μ W/MHz	2.5 μ W/MHz	Pass
NVNT	ANT1	802.11b	2472.00	2387.00~2400.00	1000	2387.83	-50.21	-16	0.0095 μ W/MHz	25 μ W/MHz	Pass
NVNT	ANT1	802.11b	2472.00	2400.00~2483.50	/	/	/	/	/	/	/
NVNT	ANT1	802.11b	2472.00	2483.50~2496.50	1000	2485.33	-40.86	-16	0.0820 μ W/MHz	25 μ W/MHz	Pass
NVNT	ANT1	802.11b	2472.00	2496.50~13000.00	1000	2538.51	-46.00	-26	0.0251 μ W/MHz	2.5 μ W/MHz	Pass
NVNT	ANT1	802.11g	2412.00	30.00~2387.00	1000	2387.00	-48.65	-26	0.0136 μ W/MHz	2.5 μ W/MHz	Pass
NVNT	ANT1	802.11g	2412.00	2387.00~2400.00	1000	2399.88	-32.44	-16	0.5708 μ W/MHz	25 μ W/MHz	Pass
NVNT	ANT1	802.11g	2412.00	2400.00~2483.50	/	/	/	/	/	/	/
NVNT	ANT1	802.11g	2412.00	2483.50~2496.50	1000	2491.87	-48.16	-16	0.0152 μ W/MHz	25 μ W/MHz	Pass
NVNT	ANT1	802.11g	2412.00	2496.50~13000.00	1000	5300.93	-48.73	-26	0.0133 μ W/MHz	2.5 μ W/MHz	Pass
NVNT	ANT1	802.11g	2442.00	30.00~2387.00	1000	2387.00	-48.86	-26	0.0129 μ W/MHz	2.5 μ W/MHz	Pass
NVNT	ANT1	802.11g	2442.00	2387.00~2400.00	1000	2397.27	-47.63	-16	0.0172 μ W/MHz	25 μ W/MHz	Pass
NVNT	ANT1	802.11g	2442.00	2400.00~2483.50	/	/	/	/	/	/	/
NVNT	ANT1	802.11g	2442.00	2483.50~2496.50	1000	2485.37	-46.97	-16	0.0201 μ W/MHz	25 μ W/MHz	Pass
NVNT	ANT1	802.11g	2442.00	2496.50~13000.00	1000	2517.51	-49.63	-26	0.0108 μ W/MHz	2.5 μ W/MHz	Pass
NVNT	ANT1	802.11g	2472.00	30.00~2387.00	1000	2375.22	-49.81	-26	0.0104 μ W/MHz	2.5 μ W/MHz	Pass
NVNT	ANT1	802.11g	2472.00	2387.00~2400.00	1000	2399.34	-48.43	-16	0.0143 μ W/MHz	25 μ W/MHz	Pass
NVNT	ANT1	802.11g	2472.00	2400.00~2483.50	/	/	/	/	/	/	/
NVNT	ANT1	802.11g	2472.00	2483.50~2496.50	1000	2484.12	-32.03	-16	0.6270 μ W/MHz	25 μ W/MHz	Pass
NVNT	ANT1	802.11g	2472.00	2496.50~13000.00	1000	2496.50	-46.89	-26	0.0204 μ W/MHz	2.5 μ W/MHz	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	30.00~2387.00	1000	2387.00	-48.35	-26	0.0146 μ W/MHz	2.5 μ W/MHz	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	2387.00~2400.00	1000	2399.80	-33.89	-16	0.4084 μ W/MHz	25 μ W/MHz	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	2400.00~2483.50	/	/	/	/	/	/	/
NVNT	ANT1	802.11n(HT20)	2412.00	2483.50~2496.50	1000	2489.18	-47.78	-16	0.0166 μ W/MHz	25 μ W/MHz	Pass

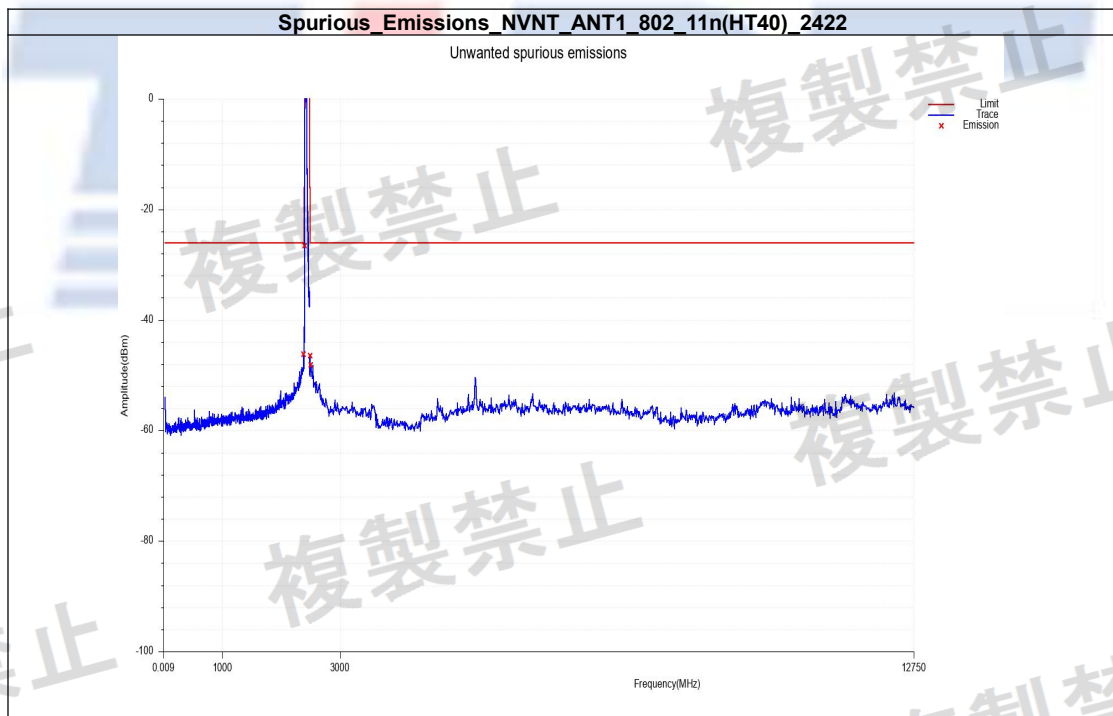
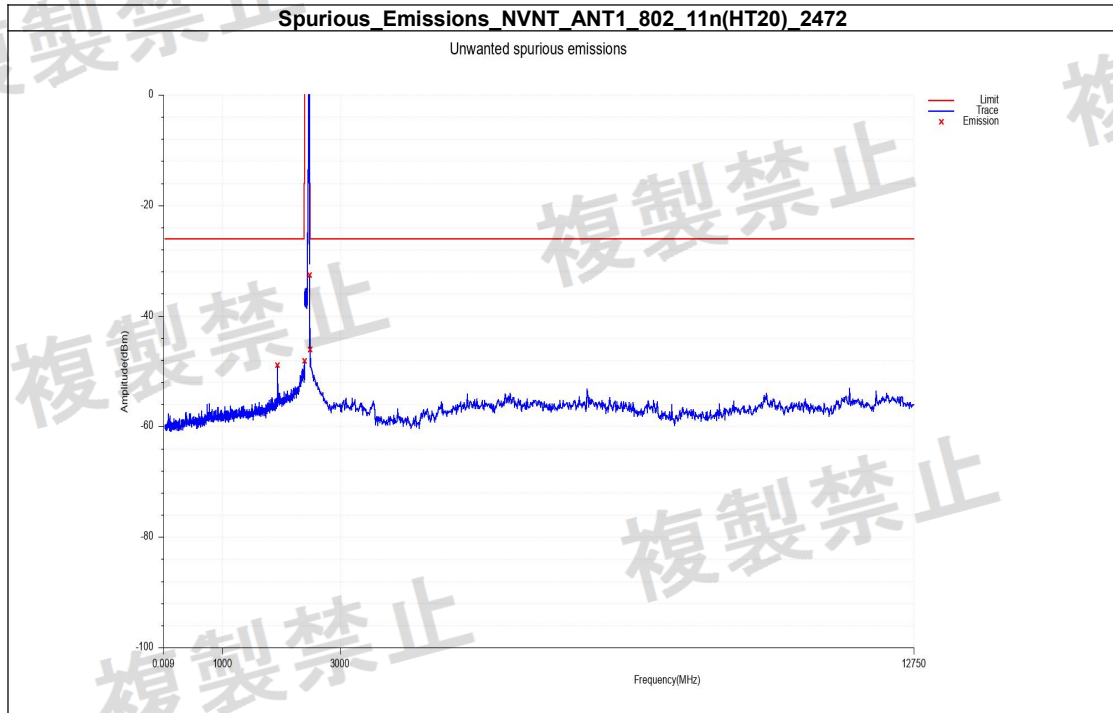
NVNT	ANT1	802.11n(HT20)	2412.00	2496.50~13000.00	1000	2496.50	-49.91	-26	0.0102 μ W/MHz	2.5 μ W/MHz	Pass
NVNT	ANT1	802.11n(HT20)	2442.00	30.00~2387.00	1000	2384.64	-48.96	-26	0.0127 μ W/MHz	2.5 μ W/MHz	Pass
NVNT	ANT1	802.11n(HT20)	2442.00	2387.00~2400.00	1000	2396.06	-47.03	-16	0.0198 μ W/MHz	25 μ W/MHz	Pass
NVNT	ANT1	802.11n(HT20)	2442.00	2400.00~2483.50	/	/	/	/	/	/	/
NVNT	ANT1	802.11n(HT20)	2442.00	2483.50~2496.50	1000	2483.73	-45.96	-16	0.0253 μ W/MHz	25 μ W/MHz	Pass
NVNT	ANT1	802.11n(HT20)	2442.00	2496.50~13000.00	1000	2496.50	-48.69	-26	0.0135 μ W/MHz	2.5 μ W/MHz	Pass
NVNT	ANT1	802.11n(HT20)	2472.00	30.00~2387.00	1000	1941.53	-48.91	-26	0.0128 μ W/MHz	2.5 μ W/MHz	Pass
NVNT	ANT1	802.11n(HT20)	2472.00	2387.00~2400.00	1000	2397.70	-48.16	-16	0.0152 μ W/MHz	25 μ W/MHz	Pass
NVNT	ANT1	802.11n(HT20)	2472.00	2400.00~2483.50	/	/	/	/	/	/	/
NVNT	ANT1	802.11n(HT20)	2472.00	2483.50~2496.50	1000	2483.71	-32.57	-16	0.5532 μ W/MHz	25 μ W/MHz	Pass
NVNT	ANT1	802.11n(HT20)	2472.00	2496.50~13000.00	1000	2496.50	-46.08	-26	0.0246 μ W/MHz	2.5 μ W/MHz	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	30.00~2387.00	1000	2384.64	-46.22	-26	0.0238 μ W/MHz	2.5 μ W/MHz	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	2387.00~2400.00	1000	2399.88	-26.52	-16	2.2290 μ W/MHz	25 μ W/MHz	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	2400.00~2483.50	/	/	/	/	/	/	/
NVNT	ANT1	802.11n(HT40)	2422.00	2483.50~2496.50	1000	2489.62	-46.45	-16	0.0226 μ W/MHz	25 μ W/MHz	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	2496.50~13000.00	1000	2507.00	-48.08	-26	0.0155 μ W/MHz	2.5 μ W/MHz	Pass
NVNT	ANT1	802.11n(HT40)	2442.00	30.00~2387.00	1000	2368.14	-47.62	-26	0.0172 μ W/MHz	2.5 μ W/MHz	Pass
NVNT	ANT1	802.11n(HT40)	2442.00	2387.00~2400.00	1000	2398.09	-45.97	-16	0.0253 μ W/MHz	25 μ W/MHz	Pass
NVNT	ANT1	802.11n(HT40)	2442.00	2400.00~2483.50	/	/	/	/	/	/	/
NVNT	ANT1	802.11n(HT40)	2442.00	2483.50~2496.50	1000	2488.84	-45.57	-16	0.0277 μ W/MHz	25 μ W/MHz	Pass
NVNT	ANT1	802.11n(HT40)	2442.00	2496.50~13000.00	1000	2496.50	-47.81	-26	0.0165 μ W/MHz	2.5 μ W/MHz	Pass
NVNT	ANT1	802.11n(HT40)	2462.00	30.00~2387.00	1000	2387.00	-48.74	-26	0.0133 μ W/MHz	2.5 μ W/MHz	Pass
NVNT	ANT1	802.11n(HT40)	2462.00	2387.00~2400.00	1000	2387.59	-47.66	-16	0.0171 μ W/MHz	25 μ W/MHz	Pass
NVNT	ANT1	802.11n(HT40)	2462.00	2400.00~2483.50	/	/	/	/	/	/	/
NVNT	ANT1	802.11n(HT40)	2462.00	2483.50~2496.50	1000	2483.55	-26.51	-16	2.2318 μ W/MHz	25 μ W/MHz	Pass
NVNT	ANT1	802.11n(HT40)	2462.00	2496.50~13000.00	1000	2496.50	-44.38	-26	0.0364 μ W/MHz	2.5 μ W/MHz	Pass

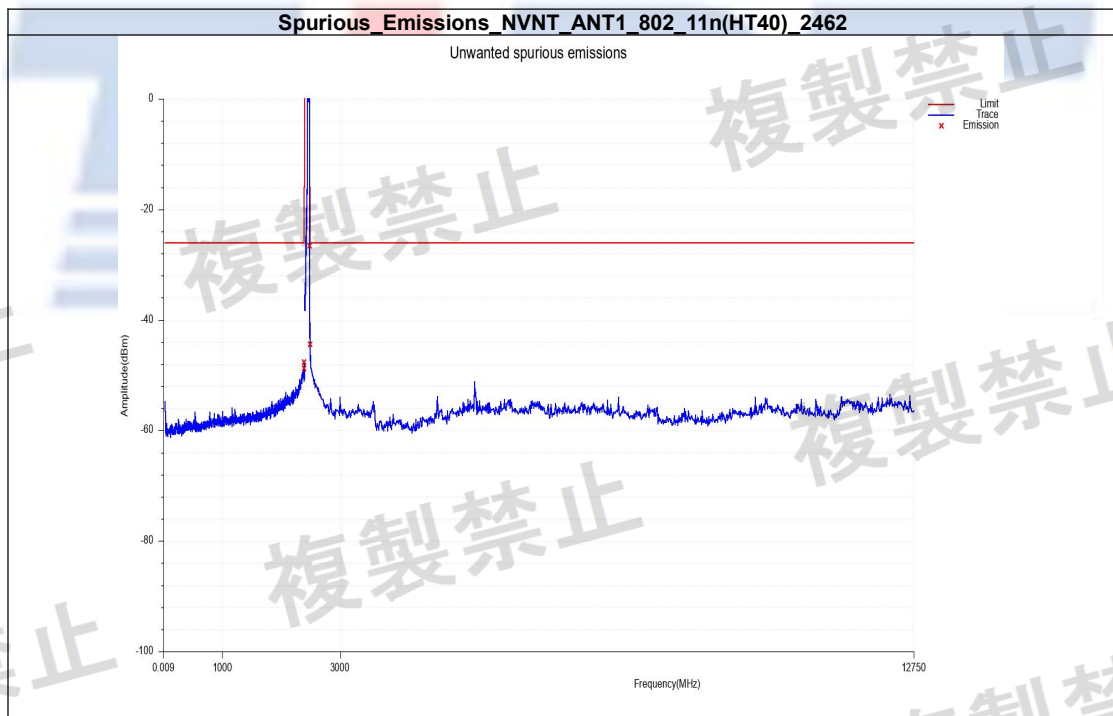
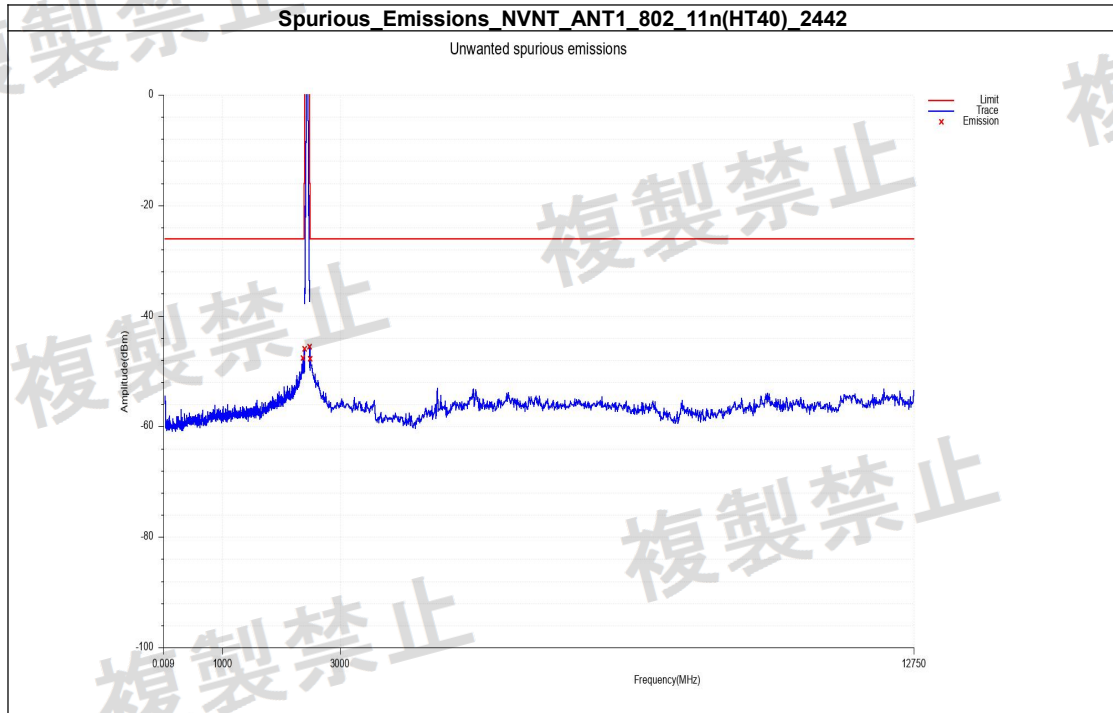












7. Interference prevention function

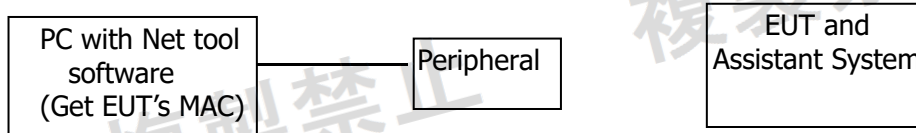
7.1. Limit

Item	Limits
Identification	≥48 bits

7.2. Measuring ID Code Software

Item	Limits
MAC IP List	MAC Scan

7.3. Block diagram of test setup



7.4. Test Procedure

- In the case that the EUT has the function of automatically transmitting the identification code: a. Transmit the predetermined identification codes from EUT. b. Check the transmitted identification codes with the demodulator.
- In the case of receiving the identification code: a. Transmit the predetermined identification codes from the counterpart. b. Check if communication is normal. c. Transmit the signals other than predetermined ID codes from the counterpart. d. Check if the EUT stops the transmission, or if it displays that identification codes are different from the predetermined ones.

7.5. Test result

EUT:	Smart GPS Bike Computer	Tested by:	Aaron Long
Temperature:	24℃	MAC address:	aa:83:c5:6c:90:1b
Humidity:	56%RH		
Test result:	Conform		

8. Carrier sensing function

8.1. Limit

EUT stop RF transmission signal after carrier inject to EUT.

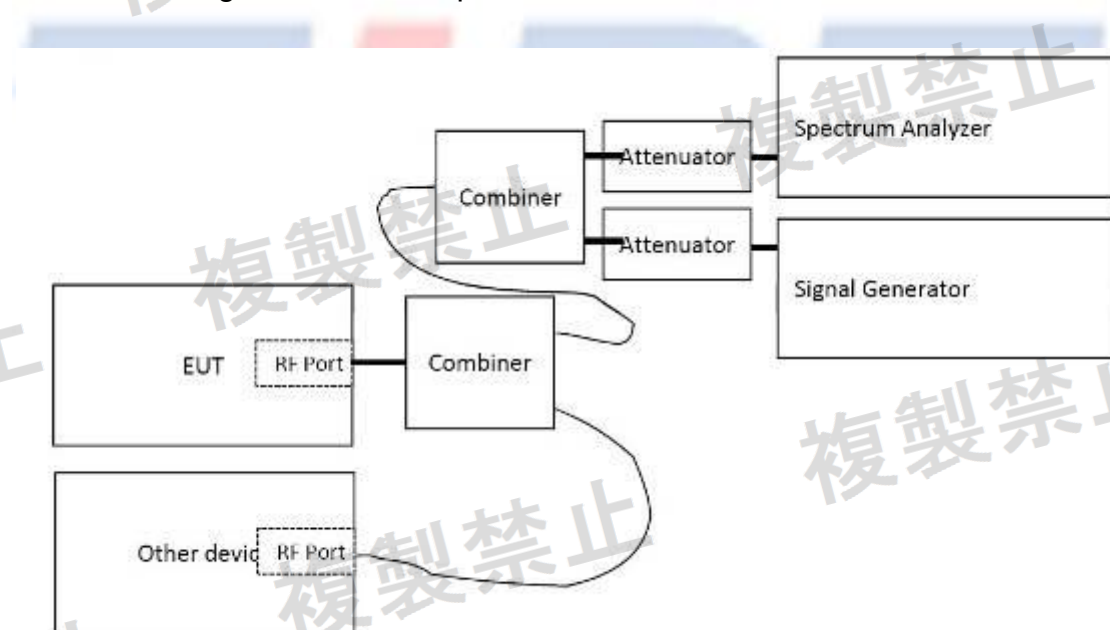
(On $22.79 + Gr - 20 \cdot \log(f) [dBm]$ ($Gr: dBi$; $f: MHz$) or $100 mV/m$)

8.2. Test Equipment

Item	Type	Manufacturer	Model No.	Serial No.	Last Calibration	Due Calibration
1	Spectrum analyzer	Agilent	N9020A	MY54488989	2025/11/10	2026/11/09
2	Spectrum analyzer	ROHDE&SCHWARZ	FSU26	200732	2025/11/10	2026/11/09
3	Attenuator	SCHWARZBECK	DGA 9552N	3161	2025/10/17	2026/10/16

Note: The test equipment is calibrated by Huajue Medical Testing and Metrology (Shenzhen) Co., Ltd. Calibration standard: Article 24-2, Paragraph 4 of the Radio Act, method c

8.3. Block diagram of test setup



8.4. Test Procedure

12.3.1. SG adjusted the frequency as same as the EUT transmitted signal and emitted the absence of modulation from SG and power level is $(on\ 22.79 + G - 20 \cdot \log(f) dBm)$ (G is the antenna gain, f is the test frequency).

12.3.2. turn off the RF signal of the SG.

12.3.3. EUT have transmitted the maximum modulation signal and fixed channelize.

12.3.4. Setting of SA :RBW/VBW=1MHz/1MHz, Span=50MHz, Sweep time=auto, Sweep mode=continuous, Detect mode=positive peak

12.3.5. SG RF signal on.

12.3.6. EUT shall be stop the transmitted any signal and SG RF signal off, the EUT will be continuous

8.5. Test result

Not applicable

EUT:	Smart GPS Bike Computer		Tested by:	Aaron Long
Temperature:	24°C		Antenna gain:	-1.5dBi
Test result:	/			
Mode	Frequency (MHz)	Interference power		Result
/	/	/		/
/	/	/		/
/	/	/		/



9. Secondary Radiated Emissions

9.1. Test Equipment

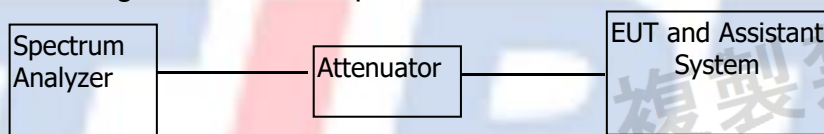
Item	Type	Manufacturer	Model No.	Serial No.	Last Calibration	Due Calibration
1	Spectrum analyzer	Agilent	N9020A	MY54488989	2025/11/10	2026/11/09
2	Spectrum analyzer	ROHDE&SCHWARZ	FSU26	200732	2025/11/10	2026/11/09
3	Attenuator	SCHWARZBECK	DGA 9552N	3161	2025/10/17	2026/10/16

Note: The test equipment is calibrated by Huajue Medical Testing and Metrology (Shenzhen) Co., Ltd. Calibration standard: Article 24-2, Paragraph 4 of the Radio Act, method c

9.2. Limit

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

9.3. Block diagram of test setup



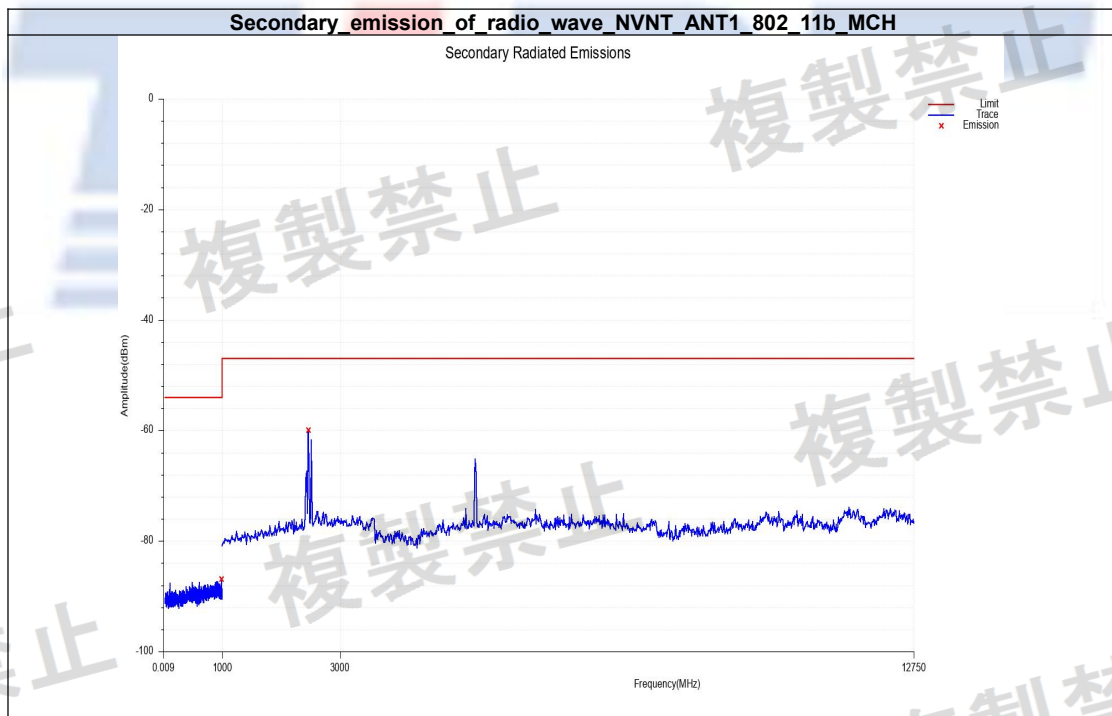
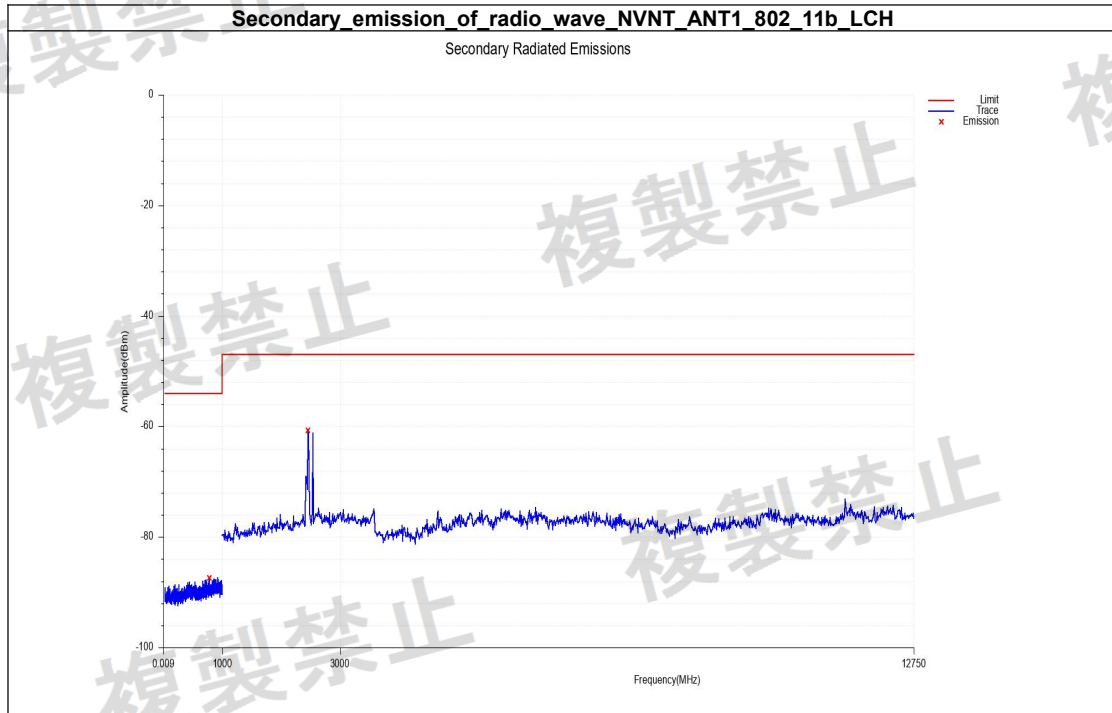
9.4. Test Procedure

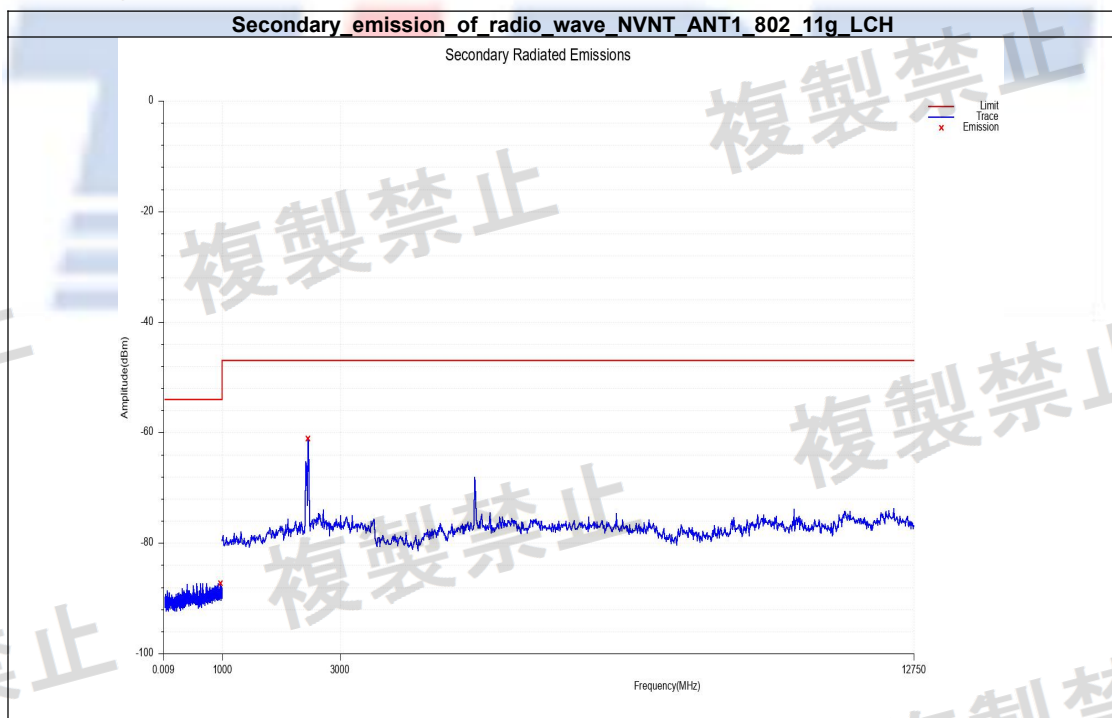
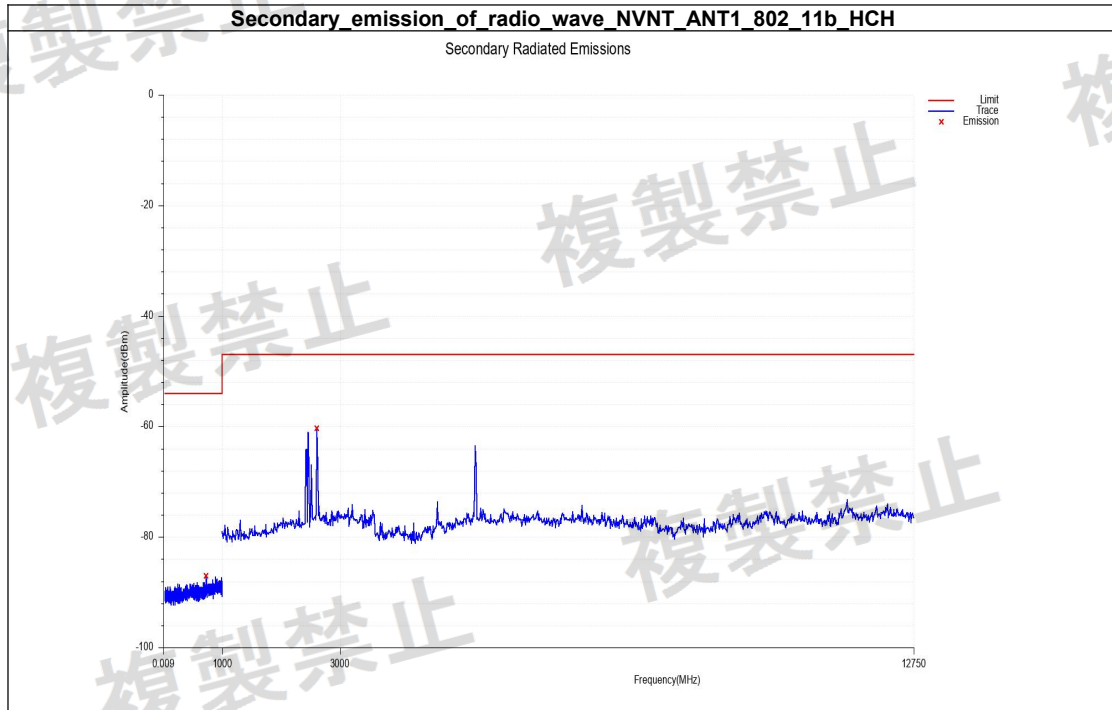
- (1) Configure EUT and assistant system according clause 2.3 and 13.3
- (2) Set EUT work in test mode as described in clause 2.4
- (3) Connected the EUT's antenna port to the Spectrum Analyzer by suitable attenuator, set the Spectrum Analyzer as below:
 Resolution BW: 100 KHz for frequency below 1GHz and 1MHz for frequency above 1GHz
 Video BW: 100 KHz for frequency below 1GHz and 1MHz for frequency above 1GHz
 Detector: Peak.
 Trace Mode: Max Hold.
- (4) All the emissions from 30MHz to 13GHz were measured and record.

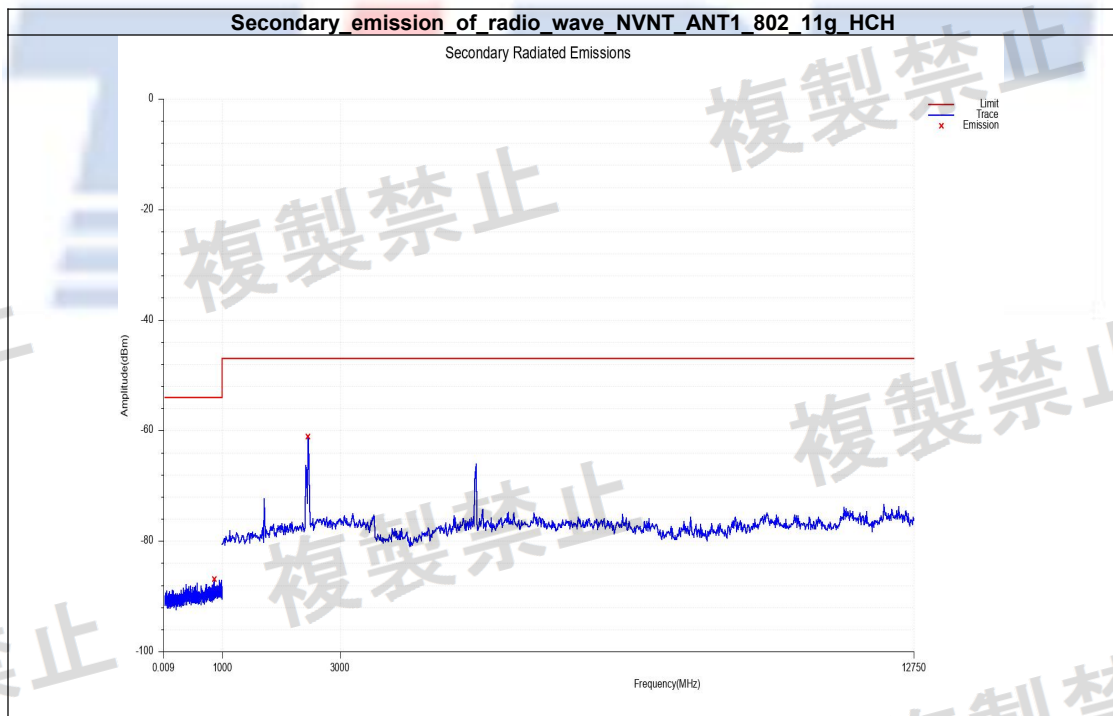
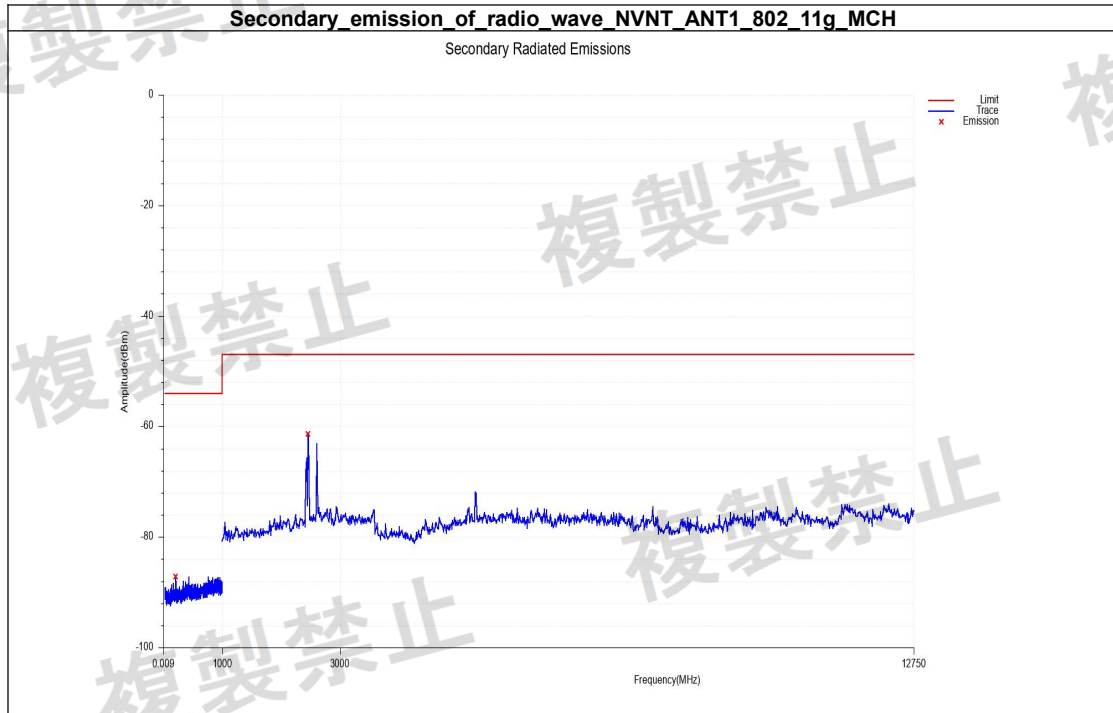
9.5. Test result

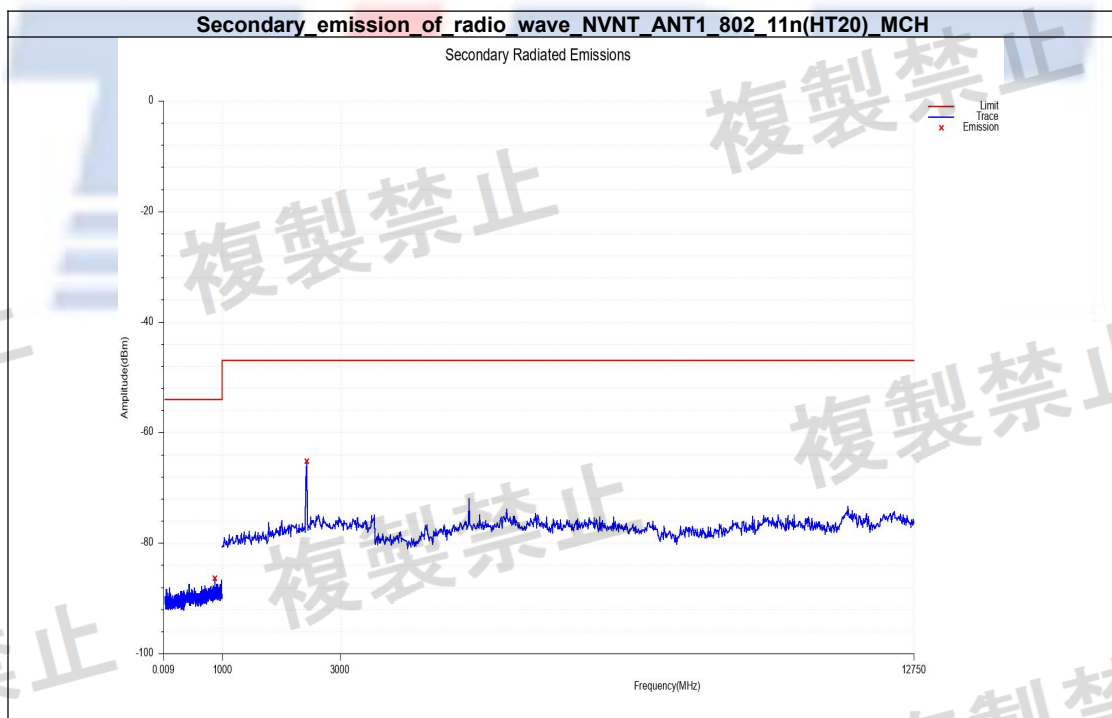
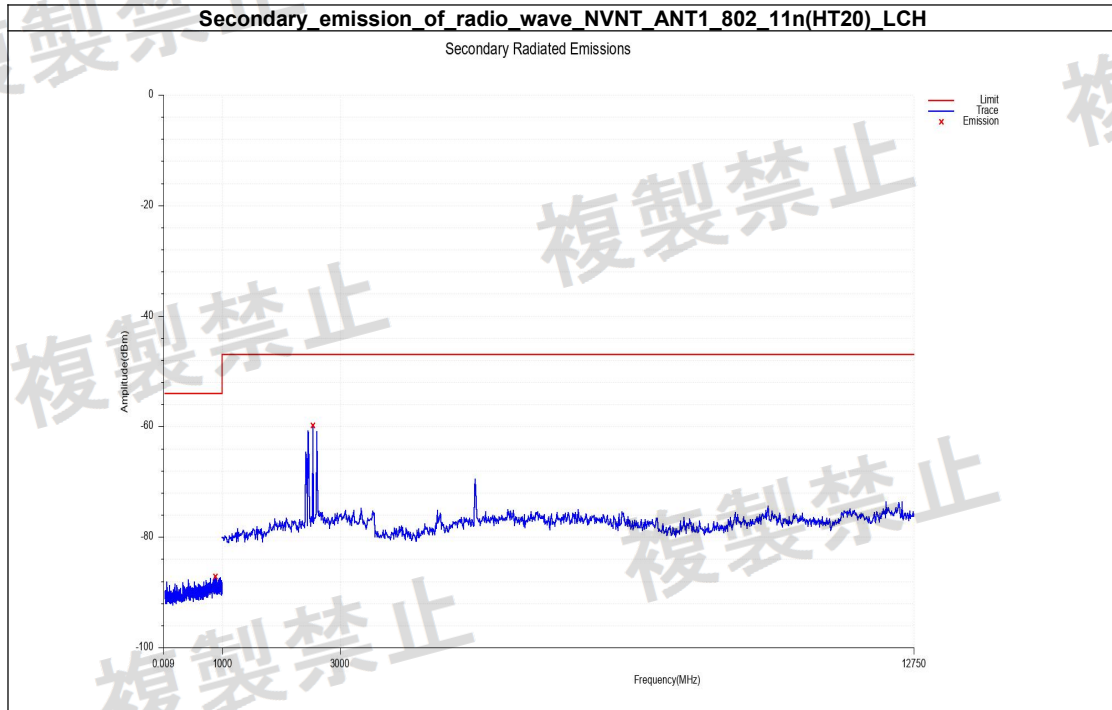
Pass. (See below original test data)

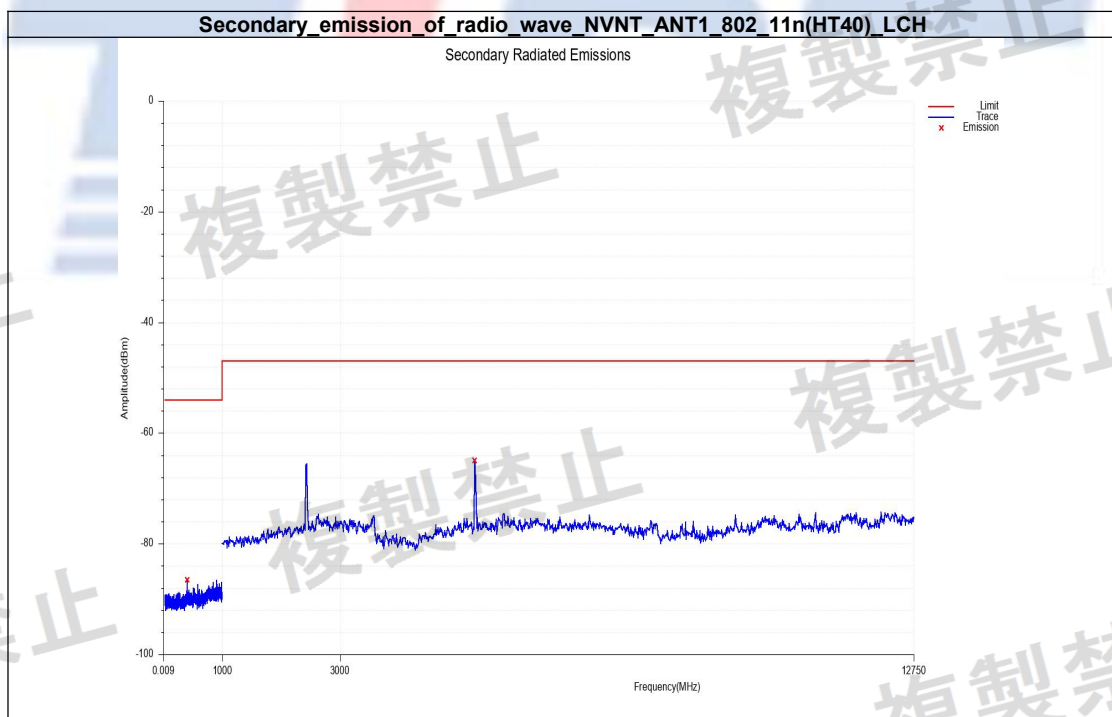
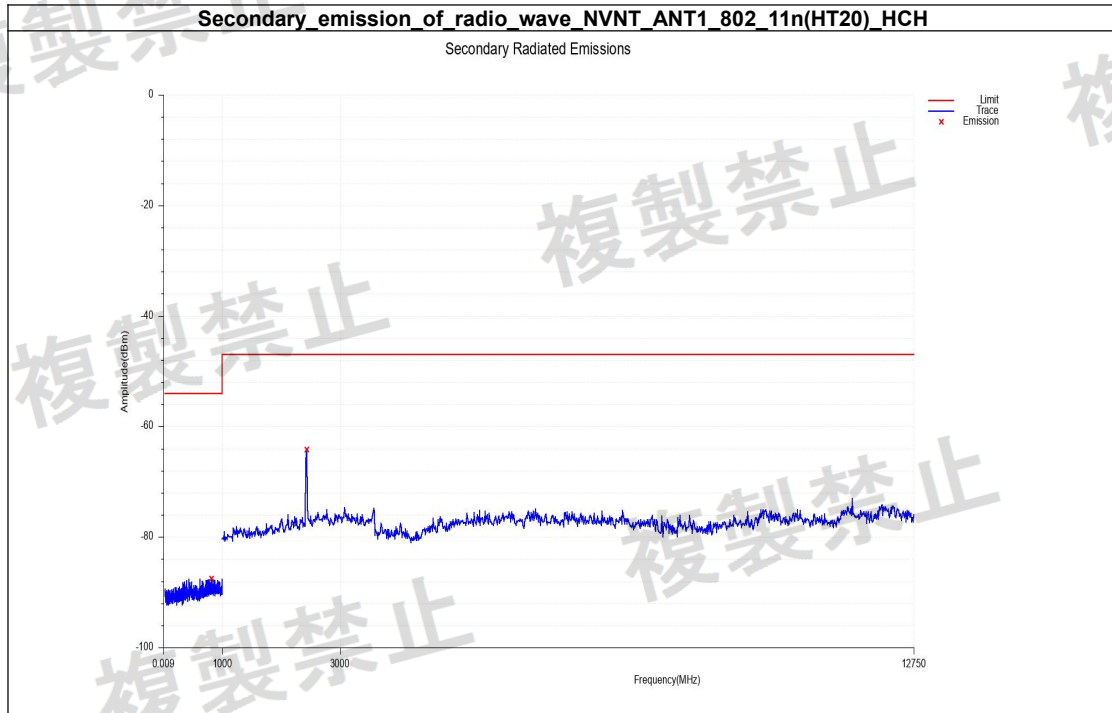
Condition	ANT	Mode	Channel	Range(MHz)	RBW(kHz)	Spur. Freq. (MHz)	Spur. Lev. (dBm)	Spur. Lev	Limit	Over 1/10 Limit	Read Lev.(dBm)	Read Lev.	Result
NVNT	ANT1	802.11b	LCH	30.0~1000.0	100	784.66	-87.36	0.0018 nW	4nW	NO	/	/	Pass
NVNT	ANT1	802.11b	LCH	1000.0~1275.0	1000	2457.00	-60.66	0.8592 nW	20nW	NO	/	/	Pass
NVNT	ANT1	802.11b	MCH	30.0~1000.0	100	990.30	-86.88	0.0020 nW	4nW	NO	/	/	Pass
NVNT	ANT1	802.11b	MCH	1000.0~1275.0	1000	2468.75	-60.00	0.9989 nW	20nW	NO	/	/	Pass
NVNT	ANT1	802.11b	HCH	30.0~1000.0	100	726.46	-87.05	0.0019 nW	4nW	NO	/	/	Pass
NVNT	ANT1	802.11b	HCH	1000.0~1275.0	1000	2609.75	-60.33	0.9258 nW	20nW	NO	/	/	Pass
NVNT	ANT1	802.11g	LCH	30.0~1000.0	100	973.81	-87.24	0.0018 nW	4nW	NO	/	/	Pass
NVNT	ANT1	802.11g	LCH	1000.0~1275.0	1000	2457.00	-61.08	0.7791 nW	20nW	NO	/	/	Pass
NVNT	ANT1	802.11g	MCH	30.0~1000.0	100	209.45	-87.14	0.0019 nW	4nW	NO	/	/	Pass
NVNT	ANT1	802.11g	MCH	1000.0~1275.0	1000	2457.00	-61.36	0.7303 nW	20nW	NO	/	/	Pass
NVNT	ANT1	802.11g	HCH	30.0~1000.0	100	861.29	-86.91	0.0020 nW	4nW	NO	/	/	Pass
NVNT	ANT1	802.11g	HCH	1000.0~1275.0	1000	2457.00	-61.10	0.7757 nW	20nW	NO	/	/	Pass
NVNT	ANT1	802.11n(HT 20)	LCH	30.0~1000.0	100	882.63	-87.21	0.0019 nW	4nW	NO	/	/	Pass
NVNT	ANT1	802.11n(HT 20)	LCH	1000.0~1275.0	1000	2539.25	-59.87	1.0311 nW	20nW	NO	/	/	Pass
NVNT	ANT1	802.11n(HT 20)	MCH	30.0~1000.0	100	879.72	-86.39	0.0022 nW	4nW	NO	/	/	Pass
NVNT	ANT1	802.11n(HT 20)	MCH	1000.0~1275.0	1000	2433.50	-65.24	0.2994 nW	20nW	NO	/	/	Pass
NVNT	ANT1	802.11n(HT 20)	HCH	30.0~1000.0	100	818.61	-87.57	0.0017 nW	4nW	NO	/	/	Pass
NVNT	ANT1	802.11n(HT 20)	HCH	1000.0~1275.0	1000	2433.50	-64.17	0.3831 nW	20nW	NO	/	/	Pass
NVNT	ANT1	802.11n(HT 40)	LCH	30.0~1000.0	100	403.45	-86.55	0.0022 nW	4nW	NO	/	/	Pass
NVNT	ANT1	802.11n(HT 40)	LCH	1000.0~1275.0	1000	5288.75	-64.93	0.3211 nW	20nW	NO	/	/	Pass
NVNT	ANT1	802.11n(HT 40)	MCH	30.0~1000.0	100	778.84	-87.43	0.0018 nW	4nW	NO	/	/	Pass
NVNT	ANT1	802.11n(HT 40)	MCH	1000.0~1275.0	1000	2421.75	-63.12	0.4871 nW	20nW	NO	/	/	Pass
NVNT	ANT1	802.11n(HT 40)	HCH	30.0~1000.0	100	909.79	-87.02	0.0019 nW	4nW	NO	/	/	Pass
NVNT	ANT1	802.11n(HT 40)	HCH	1000.0~1275.0	1000	2433.50	-62.13	0.6120 nW	20nW	NO	/	/	Pass

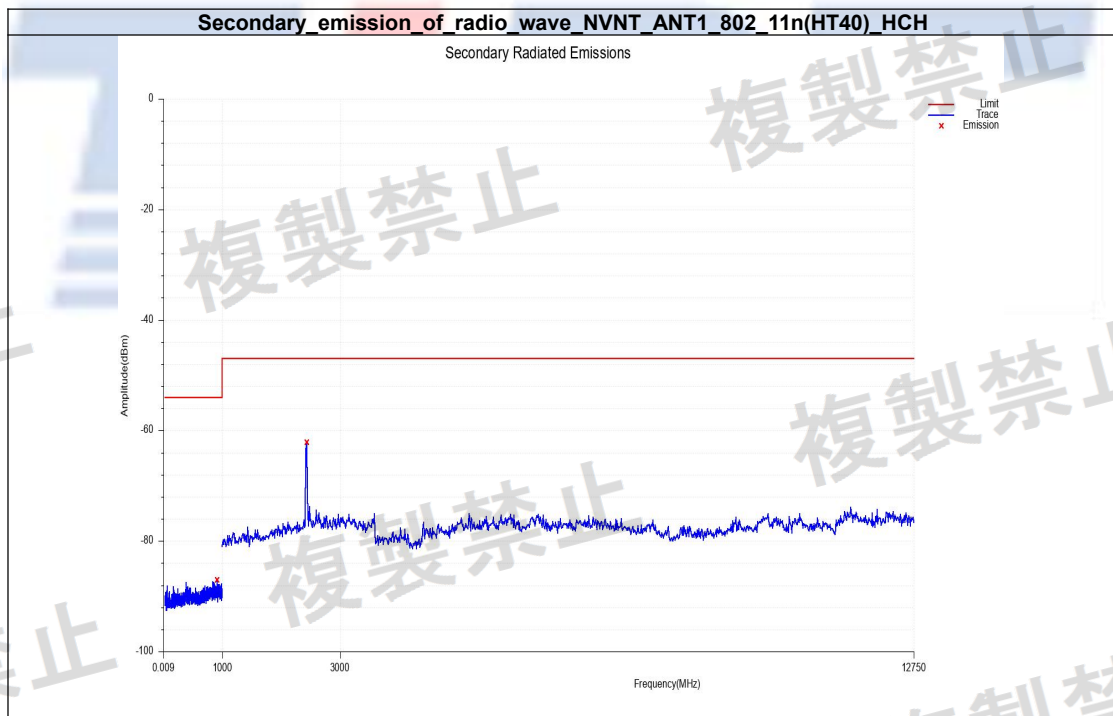
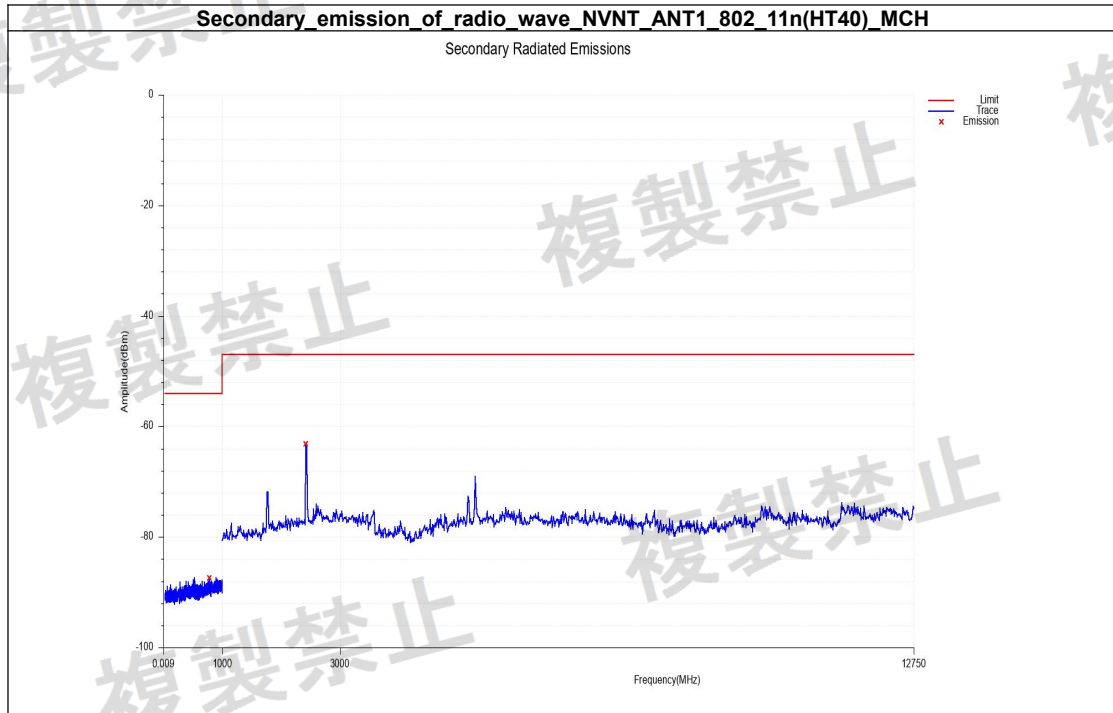












10.1. Test Equipment

Note: The test equipment is calibrated by Huajue Medical Testing and Metrology (Shenzhen) Co., Ltd. and GRG METROLOGY & TEST Calibration standard: Article 24-2, Paragraph 4 of the Radio Act, method c

Modulation system	Frequency band used	Antenna power(max.)	EIRP	
			Omnidirectional case	Directional case
DS	2400~2483.5MHz	10mW/MHz	12.14dBm/MHz	22.14dBm/MHz
OFDM1	2400~2483.5MHz	10mW/MHz	12.14dBm/MHz	22.14dBm/MHz
OFDM2	2400~2483.5MHz	5mW/MHz	9.13dBm/MHz	19.13dBm/MHz

The diagram illustrates the experimental setup for measuring the radiation pattern of a horn antenna. The setup is enclosed in a reverberant chamber, indicated by the zigzag lines representing the walls. A ground reference plane is shown at the bottom. A turntable, labeled (Turntable), holds two components: an Antenna Element (AE) and a Local Oscillator (LO). The turntable is 15cm high. A horn antenna is positioned 5m away from the turntable. The horn antenna is connected to an Antenna Tower. The Antenna Tower is connected to a Test Receiver, which is connected to a Pre-Amplifier and a Controller. The Controller is connected to the Antenna Tower. The Test Receiver is connected to the Pre-Amplifier, which is connected to the Controller. The Controller is connected to the Antenna Tower. The Antenna Tower is connected to the horn antenna.

Step 1

Set the test equipment at test frequency, and in continuous transmitting mode or intermittent burst mode (constant frequency and constant burst time). Stop the spread.

Step 2

Set the height and direction of test equipment and measurement antenna approximately facing each other.

Step 3

In the frequency derived in D), change the height of the measurement antenna from the ground by $\pm 50\text{cm}$ with a central focus on the antenna of test equipment. Search the location

that the power is maximum by adjusting the direction of measurement antenna. Set the indicator of spectrum analyzer at this point as “E”.

Step 4

Remove the test equipment from the turntable, set the opening of substitution antenna at the same location as the opening of the test equipment, and receive by outputting radio wave of the same frequency from the standard signal generator for substitution.

Step 5

Adjust at the maximum power point, turning the substitution antenna.

Step 6

Change the height of the measurement antenna from the ground by $\pm 50\text{cm}$ with a central focus on the substitution antenna, and adjust the direction of measurement antenna to the location that the received power is maximum.

Step 7

Adjust output of standard signal generator and record the power P_s that is equal to “E”. Or record P_s by counting backward from the difference with “E” as the close value to “E” (within $\pm 1\text{dB}$).

Step 8

EIRP is derived from the following calculating formula:

$$\text{EIRP} = G_s - L_F + P_s$$

G_s ; Absolute gain of substitution antenna (dBi).

L_F ; Loss of electric supply line between standard signal generator and substitution antenna (dB).

P_s ; Output of standard signal generator (dBm).

Step 9

Spectrum Analyzer as below:

Centre Frequency: The centre frequency of the channel under test.

Frequency Span: 0Hz

Resolution BW: 1MHz

Video BW: 3MHz

Detector: Peak.

Sweep mode: Continuous sweep

10.5. Test result

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	3.03	-1.5	1.53	12.14	Not Application
NVNT	ANT1	802.11b	2442.00	3.76	-1.5	2.26	12.14	Not Application
NVNT	ANT1	802.11b	2472.00	3.53	-1.5	2.03	12.14	Not Application
NVNT	ANT1	802.11g	2412.00	-2.95	-1.5	-4.45	12.14	Not Application
NVNT	ANT1	802.11g	2442.00	-2.29	-1.5	-3.79	12.14	Not Application
NVNT	ANT1	802.11g	2472.00	-2.47	-1.5	-3.97	12.14	Not Application
NVNT	ANT1	802.11n(HT20)	2412.00	-3.55	-1.5	-5.05	12.14	Not Application
NVNT	ANT1	802.11n(HT20)	2442.00	-3.14	-1.5	-4.64	12.14	Not Application
NVNT	ANT1	802.11n(HT20)	2472.00	-3.84	-1.5	-5.34	12.14	Not Application
NVNT	ANT1	802.11n(HT40)	2422.00	-7.18	-1.5	-8.68	9.13	Not Application
NVNT	ANT1	802.11n(HT40)	2442.00	-5.91	-1.5	-7.41	9.13	Not Application
NVNT	ANT1	802.11n(HT40)	2462.00	-6.70	-1.5	-8.2	9.13	Not Application

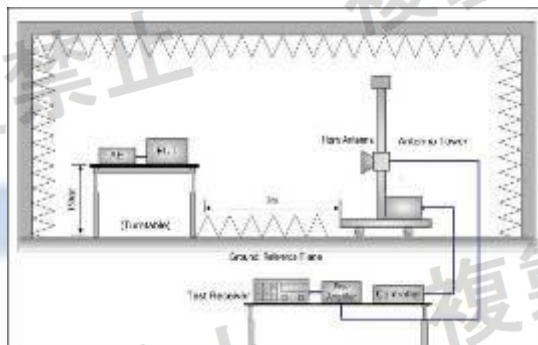
11.3dB Beam Bandwidth

11.1. Test Equipment

Item	Type	Manufacturer	Model No.	Serial No.	Last Calibration	Due Calibration
1	Spectrum analyzer	Agilent	N9020A	MY54488989	2025/11/10	2026/11/09
2	Spectrum analyzer	ROHDE&SCHWARZ	FSU26	200732	2025/11/10	2026/11/09
3	Attenuator	SCHWARZBECK	DGA 9552N	3161	2025/10/17	2026/10/16
4	Horn Antenna	SCHWARZBECK	BBHA 9120 D	03298	2025/11/18	2026/11/17

Note: The test equipment is calibrated by Huajue Medical Testing and Metrology (Shenzhen) Co., Ltd. and GRG METROLOGY & TEST Calibration standard: Article 24-2, Paragraph 4 of the Radio Act, method c

11.2. Block diagram of test setup



11.3. Test Procedure

Step 1

Set the test equipment at test frequency, and transmit.

Step 2

Stop the modulation, and make it “continuous transmission of unmodulated wave” in principle. If it is impossible, make it “intermittent burst transmission of unmodulated wave”

Step 3

Polarized wave side of measurement antenna is the same using mode as test equipment.

Step 4

Set the height and direction of test equipment and measurement antenna approximately facing each other.

Step 5

Set the spectrum analyzer according to “Spectrum set” and set as reference level and receive.

Step 6

Adjust at the maximum received power point, turning the test equipment horizontally and vertically.

Step 7

Change the height of the measurement antenna from the ground by $\pm 50\text{cm}$ with a central focus on the antenna of test equipment, and search the location that the power is maximum by adjusting the direction of measurement antenna. Set the indicator of spectrum analyzer at this point as “E”.

Step 8

By using EIRP (P_E) that is measured at 9, calculate allowed main beam angle (θ_0) between the horizontal plane and vertical plane of the test equipment as follows.

Allowed main beam angle (θ_0) = $360/A$

θ_0 : Allowed transmitter antenna beamwidth angle in degree of test equipment

P_E : EIRP of test equipment (dBm)

A: A is defined as EIRP divides by the summation of antenna gain 2.14dBi transmitter antenna and average power 10mW (In case of using OFDM, or DS, or FHSS, or DS and complex with FHSS, or OFDM and complex with FHSS, 10mW/MHz. However, in FHSS or DS and complex with FHSS, or OFDM and complex with FHSS, when using the frequency from 2,427MHz to 2,470.75MHz, 3mW/MHz) antenna power. In case the value is lower than 1, set A as 1.

Step 9

Turn the test equipment in horizontal direction, from main beam direction with the beam angle except main beam angle (θ_0) calculated by (step 8), over all surroundings as much as possible. Confirm that received power is decreased more than 3dB from the maximum point value of received power(E).

Step 10

Return the test equipment to position (step 6), incline the test equipment in vertical direction, from main beam direction with the beam angle except main beam angle (θ_0) calculated by (step 8), widely as much as possible (over 90 degrees. However, it is able to according to "6. other condition", too.) Confirm that received power is 3dB lower than the maximum point value of received power (E).

Step 9

Spectrum Analyzer as below:

Centre Frequency: The centre frequency of the channel under test.

Frequency Span: 0Hz

Resolution BW: 1MHz

Video BW: 1KHz

Y-Axis: 5dB/Div

Detector: Peak.

Sweep mode: Continuous sweep

Input level: the amplitude of transmission signal is set around max. line area of mixer.

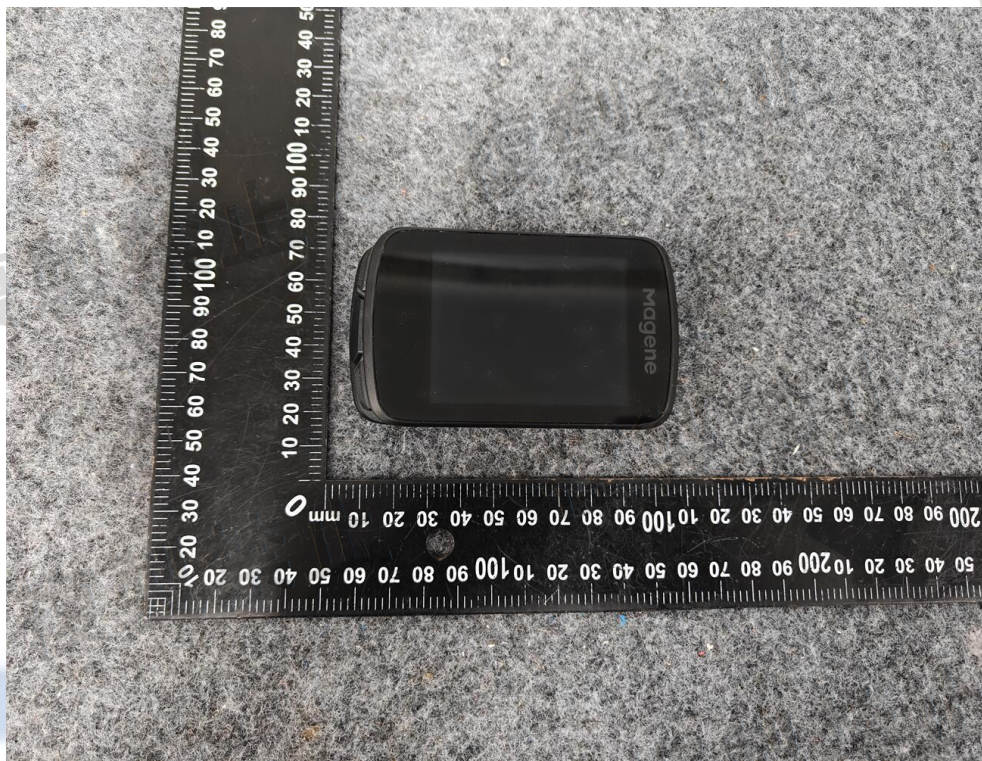
11.4. Test result

Not applicable (the EIRP less than 12.14dBm).

12. Photos of test setup



13. EUT Photo

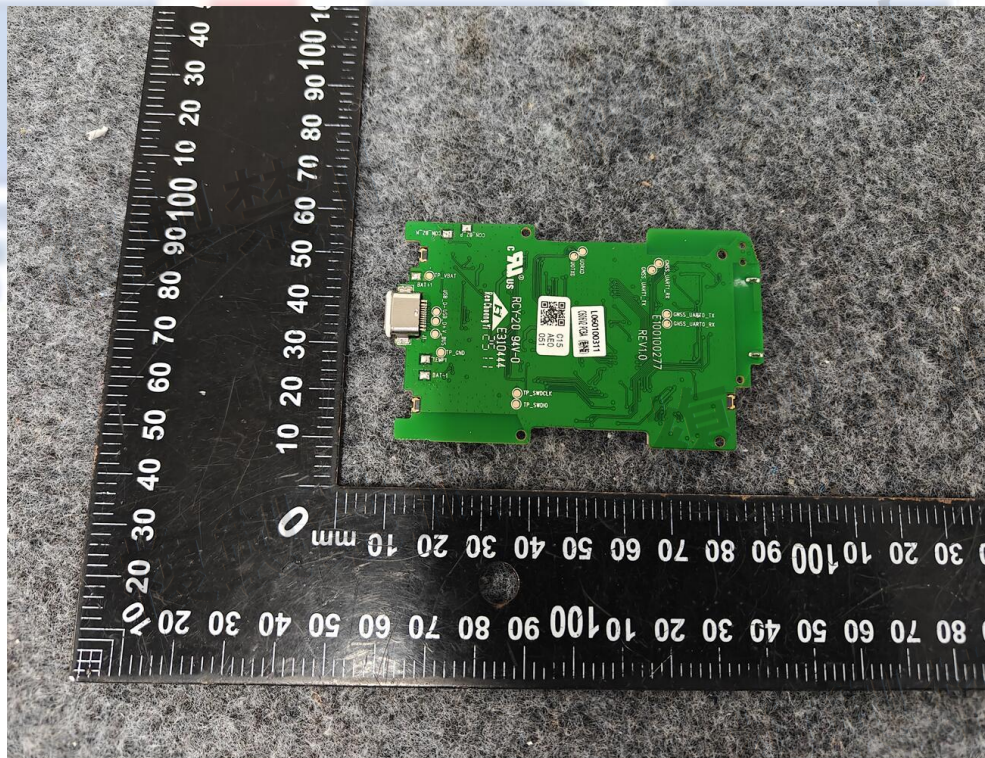
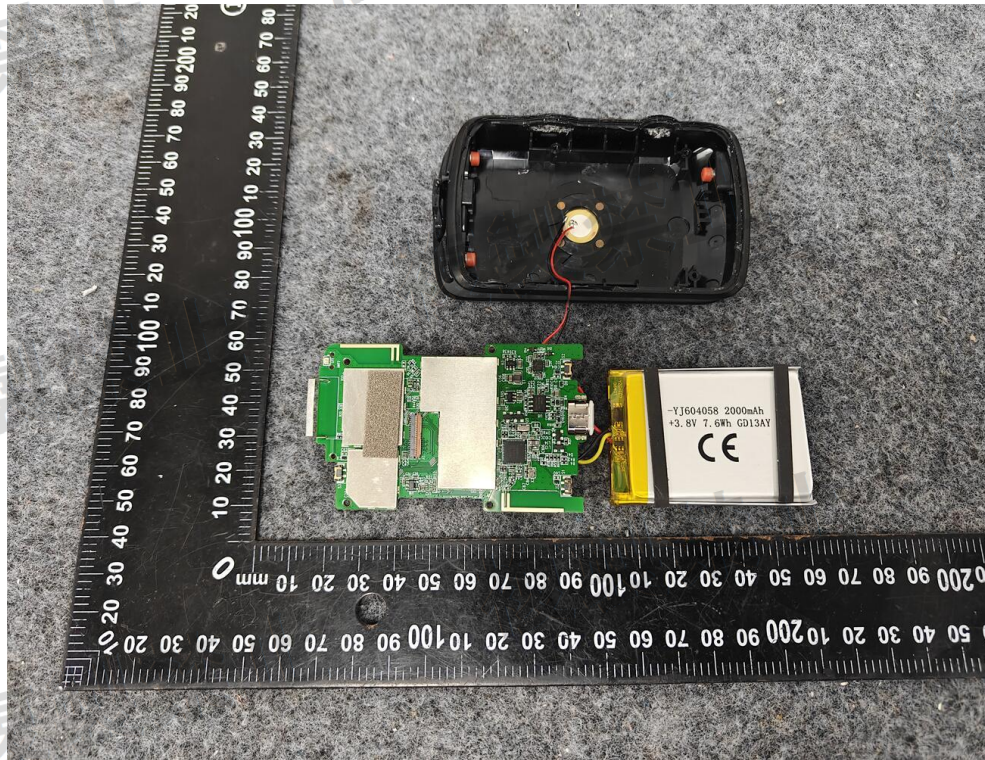


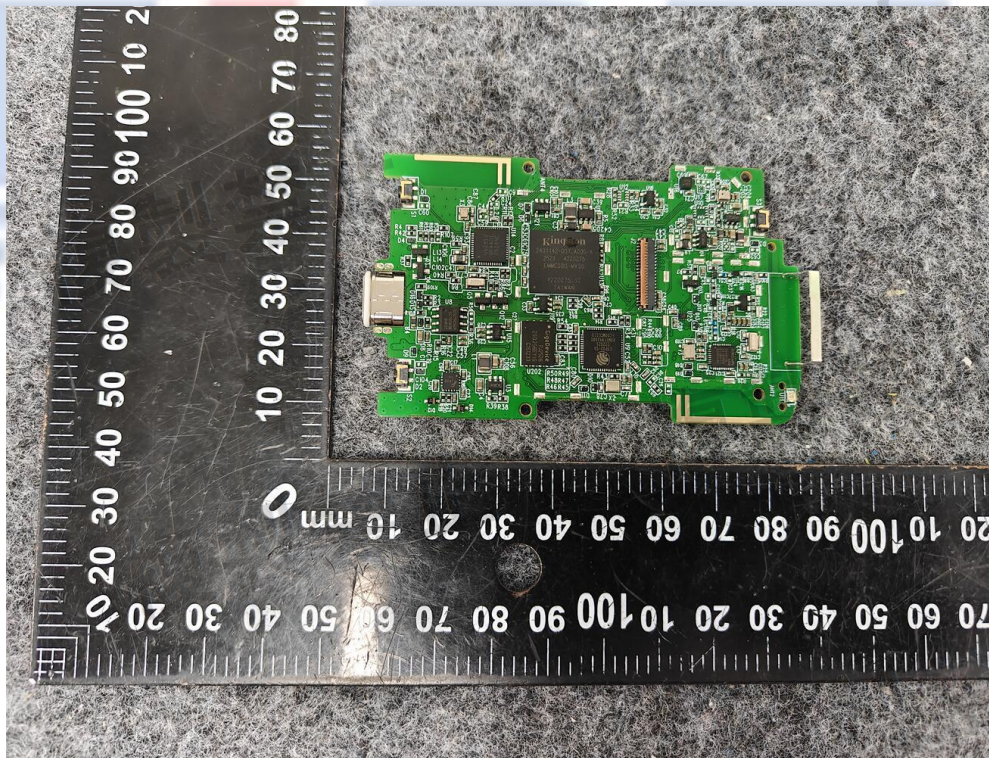
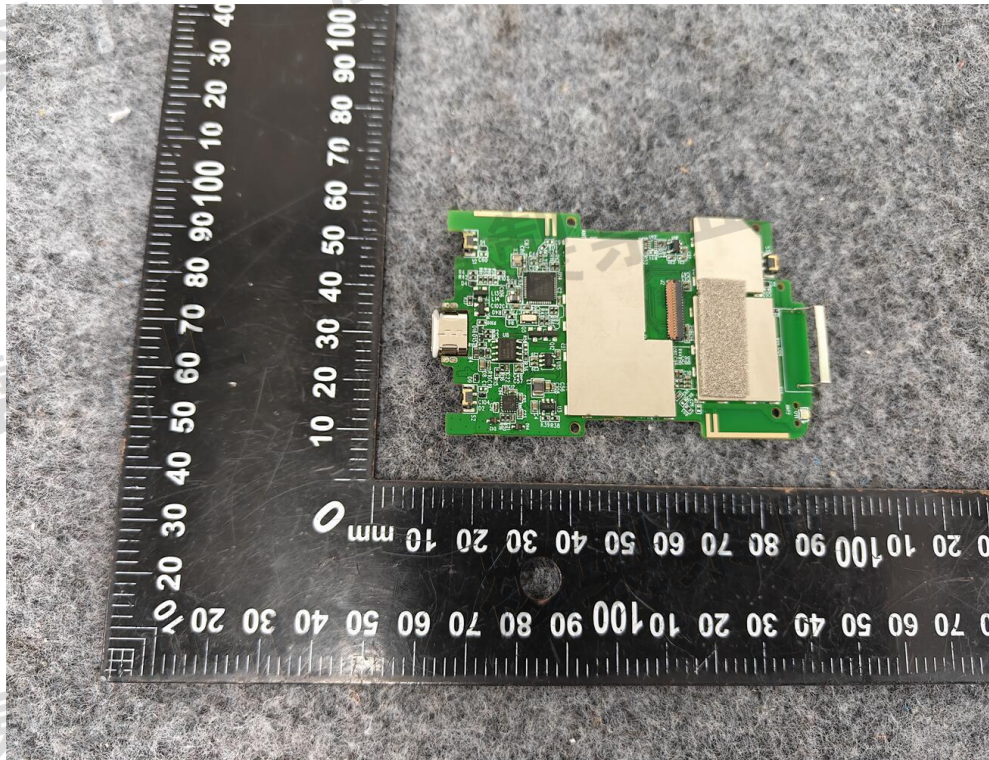












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