

TEST REPORT

Specific Wireless Devices

for

Products Name: Meeting Room Display Tablet

Model No.: WA1099T

Report No.: SST2604E281

Issued Date: 2026-4-30

Issued for

Johnson Controls International

1101 E Whitaker Mill Rd suite 220, Raleigh, NC 27604, USA

Issued by

Dongguan Qiyang Testing Technology Co., Ltd.

Room 101-1, Building 1, No.19, Tianxin Butterfly 1st Road, Huangjiang, Dongguan, Guangdong, China

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1. Basic Introduction

Applicant's name :	Johnson Controls International	
Address	1101 E Whitaker Mill Rd suite 220, Raleigh, NC 27604, USA	
Manufacturer's name	Johnson Controls International	
Address	1101 E Whitaker Mill Rd suite 220, Raleigh, NC 27604, USA	
Factory's name	Shenzhen Electron Technology Co., Ltd	
Address	Bld 2, Yingfeng Industrial Zone, Tantou Community, Songgang Street, Bao'an, Shenzhen, Guangdong, P.R.China	
Products Name :	Meeting Room Display Tablet	
Model No. :	WA1099T	
Trade Mark	N/A	
Rating(s) :	Adapter Model: FJ-SW1202000N Input: 100-240V, 50/60Hz Output: DC 12.0V 24W or DC 48V, 0.5A by POE power supply	
Date of sample receipt :	2026-4-3	
Date of Test :	2026-4-3~2026-4-28	
Standard(s)	Article 2 paragraph 1 item(19)-3 MIC Notice No.88 Annex 1 MIC Notice No.88 Annex 45	
Tested by (+signature) :	Connor Ma	
Check by (+signature) :	Davis Zhou	
Approved by (+signature) :	Tiger Chen	



2. General description

2.1. EUT description

Products Name	Meeting Room Display Tablet	
Model No.	WA1099T	
Rating(s)	Adapter Model: FJ-SW1202000N Input: 100-240V, 50/60Hz Output: DC 12.0V 24W or DC 48V, 0.5A by POE power supply	
Software version	V1.0	
Hardware version	R160 V2.1A	
Operation frequency	5180-5240MHz (20MHz Bandwidth) 5190-5230MHz(40MHz Bandwidth) 5210MHz(80MHz Bandwidth)	
Modulation technology	802.11a/n/ac/ax Note : 802.11ax support full RU only	
DFS Function	Not applicable	
TPC Function	No	
Antenna type	FPC antenna	
Antenna Gain	2.98 dBi	
Cable	Name	Description
	C-C cable	☒ Shielded ☐ Unshielded ☒ Detachable ☐ Un-detachable ☐ No applicable ☐ Length: 1.5m

Note: 802.11ax not support partial RU mode, all test configurations are solely applicable to Full RU.

2.2. Serial model(s) and model difference

Main model(s)	WA1099T
Serial model(s)	/
Model difference	/

2.3. Auxiliary equipment

Support equipment list			
Description	Manufacturer	Model No.	Serial No.
PC	HP	Zhan 66P	/
Support cable list			
Description	Specified length(m)	Shielded	Unshielded
		☐	☐

2.4. Description of test modes and condition

Mode 1	Continuously transmit		
Mode 2	Receiver status		
Mode 3	Normal operation		
Temperature(°C):	23.9		
Humidity (%):	53		
Atmospheric pressure:	100.9kPa		
Power Supply			
Voltage Fluctuations Test	Normal voltage	Low voltage (-10%)	High voltage (+10%)
Input to EUT (DC,V)	12	10.8	13.2
To RF Module (DC, V)	3.3	3.3	3.3
Voltage Variation (%)	-	0	0

Note1: $\text{Voltage Variation}(\%) = (\text{Output high or Low Voltage} - \text{Output Normal Voltage}) / \text{Output Normal Voltage} * 100$.

Note2: After checking the fluctuation of input voltage to the circuit of the radio part (excluding the power supply) of the equipment to be tested, the fluctuation less than +/-1% when input voltage from an external supply into the equipment fluctuates +/-10%, therefore, the test is carried out only at the normal voltage.

2.5. Test environmental conditions

The climatic conditions during the tests are within the limits specified by the manufacturer for the operation of the EUT and the test equipment.		
The climatic conditions during the tests were within the following limits:		
Ambient temperature	Relative humidity	Atmospheric pressure
15 °C ~ 35 °C	30 % ~ 60 %	86 kPa ~ 106 kPa
If explicitly required in the basic standard or applied product standard the climatic values are recorded and documented separately in this test report.		

2.6. Statement of Measurement Uncertainty

Test Item	Uncertainty
Uncertainty for Conducted emissions	3.31 dB
Uncertainty for Radiated emission (30 MHz to 1 GHz)	4.53 dB
Uncertainty for Radiated emission (above 1 GHz)	4.80 dB

RF power, conducted	1.08 dB
Power Spectral Density, Conducted	1.46 dB
Spurious Emissions, Conducted	2.94 dB
Occupied bandwidth	57.74 kHz
Dwell Time	2%
Frequency	3%
Measurement Uncertainty Decision Rule Determination of conformity with the specification limits is based on the decision rule according to IEC Guide 115: 2023, clause 4.3.3 and 4.3.4.	

2.7. Report modification record

Report No.	Issue Date	Description
SST2604E281	2026-4-30	Original Report

2.8. Test Facility

The test facility is recognized, certified, or accredited by the following organizations:	
CNAS	Registration No.: L17883
Location	Dongguan Qiyang Testing Technology Co., Ltd. Room 101-1, Building 1, No.19, Tianxin Butterfly 1st Road, Huangjiang, Dongguan, Guangdong, China

2.9. Additional Instruction

Test Software	CMD
Power level setup	Default

2.10. Other information

The laboratory responsible for all the information provided in the report, except those information provided by the applicant.

The applicant shall fully responsible for the information they provided.

The report would be invalid without a stamp of test laboratory and the signatures of compiler and approver.

The laboratory has not been responsible for the sampling stage; the test report merely corresponds to the test sample received.

Any objection to the test report shall submitted to the test laboratory within 15 days from the date of receipt of the report.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

3. Verdict summary section

Requirement – Test case	Result
RF shielding method	Pass
Tolerance of Frequency	Pass
Antenna Power and EIRP	Pass
Occupied bandwidth	Pass
Adjacent Channel Power Tolerance	Pass
Burst Length Measurement	Pass
Spurious Emissions Intensity	Pass
Secondary radiated emissions	Pass
Interference Prevention Function	Pass
Number of carrier	Pass (This device has more than 1 subcarrier in 1MHz, compliances with the requirement.)

Test case verdicts	
- Test case does not apply to the test object	N/A
- Test object does meet the requirement	P (Pass)
- Test object does not meet the requirement	F (Fail)

4. List of Test Equipment

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Date	Cal. Due
RF conducted						
Spectrum Analyzer	keysight	N9020A	MY51280659	2025/04/16	2026/04/09	2027/04/09
Signal Generator	Agilent	N5181A	MY48180054	2025/04/16	2026/04/09	2027/04/09
Signal Generator	keysight	N5172B	MY57281610	2025/04/16	2026/04/09	2027/04/09
Spectrum Analyzer	R&S	FSV40-N	101791	2025/04/16	2026/04/09	2027/04/09
Wideband Radio Communication Tester	R&S	CMW500	123123	2025/04/16	2026/04/09	2027/04/09
RF Switch Box	TST PASS	TST V2	/	2025/04/16	2026/04/09	2027/04/09
Thermohygrometer	KTJ	TA218A	879032	2025/04/20	2026/04/09	2027/04/09
DC power supply	Lodestar	LPS6010D	LP2303371	/	/	/
Temperature and humidity chamber	Guangdong fenghe	FH-TH-1000	FH24032017	2025/04/26	2026/04/09	2027/04/09
Test Software	TST PASS	TST PASS	V2.0	/	/	/

Calibration Information (Article 24-2, Paragraph 4 of the Radio Act)

	a. Calibration conducted by the National Institute of Information and Communications Technology (NICT) or a designated calibration agency under Article 102-18-1 of the Radio Act
	b. Calibration conducted based on the regulations of Articles 135 or 144 of the measurement Act
✓	c. Calibration conducted in foreign countries, which is equivalent to calibration conducted by the NICT or a designated calibration agency under Article 102-18-1 of the Radio Act
	d. Calibration, etc. conducted by using measuring instruments and other facilities listed at the bottom of appended table 3 of the Radio Act, which is to have been calibrated as described in (a)through (c) above

5. Technical Requirement and Measurement Data

5.1. Cabinet

Requirement:

The high-frequency section and modulation section (except for the antenna system) shall not be capable of being opened easily

Shielding method:

Refer to SST2604E278 for details

5.2. Antenna Power

Limit

Antenna Power:

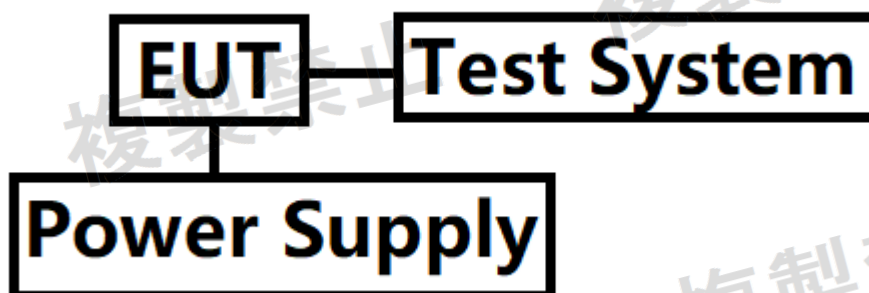
Tolerance: -80% ~ 20%(W52, W53); -50% ~ 50%(W56)

DSSS, etc.	OFDM		
DSSS: 10mW/MHz	20M system	40M system	80M system
etc.: 10mW	10mW/MHz	5mW/MHz	2.5mW/MHz

EIRP:

	20M system	40M system	80M system
W52	10mW/MHz	5mW/MHz	2.5mW/MHz
W53	10mW/MHz: with TPC	5mW/MHz: with TPC	2.5mW/MHz: with TPC
	5mW/MHz: without TPC	2.5mW/MHz: without TPC	1.25mW/MHz: with TPC
W56	50mW/MHz: with TPC	25mW/MHz: with TPC	12.5mW/MHz: with TPC
	25mW/MHz: without TPC	12.5mW/MHz: without TPC	6.25mW/MHz: with TPC

Block diagram of Test Setup



Test Setup

Test Frequency: centre Frequency

Span: Max allowed to capture the trace

RBW: 1MHz

VBW: 3MHz

Sweep Time: Auto

Detector: Peak

Trace: Max hold

Mark the highest peak value, then centre the frequency

Span: 0Hz

RBW: 1MHz

VBW: 1MHz

Sweep: Single

Detector: RMS

Measure the burst power.

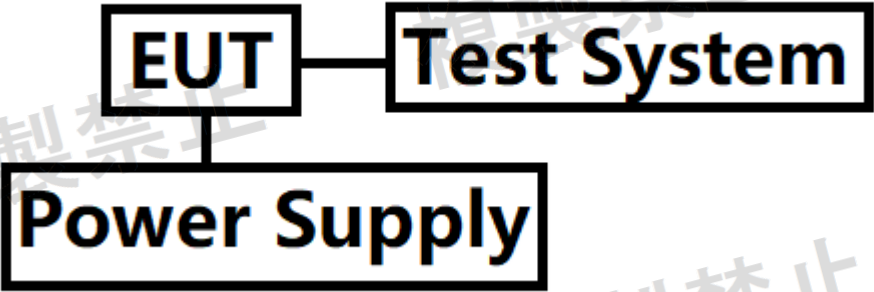
Verdict

Pass

5.2.1. Test Result

Refer to section 8 for details

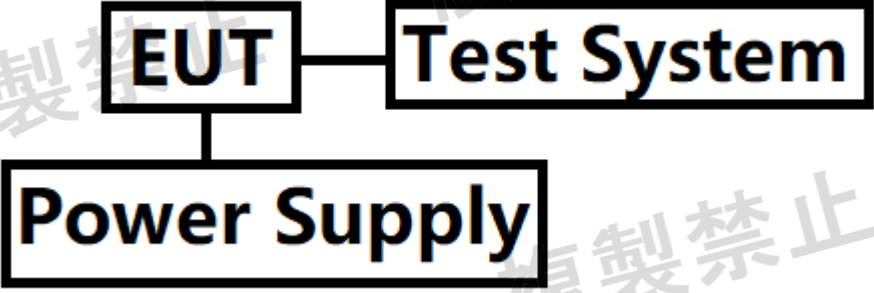
5.3. Frequency Tolerance

Limit
$\pm 20 \times 10^{-6}$
Block diagram of Test Setup
 <pre> graph TD PS[Power Supply] --> EUT[EUT] EUT --- TS[Test System] </pre>
Test Setup
Test Frequency: centre Frequency Span: 1MHz RBW: 10kHz VBW: =RBW Sweep Time: Auto Detector: Peak Trace: Max hold While the trace is stabilized, mark the highest transmit frequency
Verdict
Pass

5.3.1. Test Result

Refer to section 8 for details

5.4. Occupied Bandwidth

Limit
For 20MHz system: $\leq 20\text{MHz}$; For 40MHz system: $\leq 40\text{MHz}$; For 80MHz system: $\leq 80\text{MHz}$;
Block diagram of Test Setup
 <pre> graph TD PS[Power Supply] --- EUT[EUT] EUT --- TS[Test System] </pre>
Test Setup
Test Frequency: centre Frequency Span: Max allowed to capture hole trace RBW: 100kHz(for bandwidth less than 20M); or 300kHz(for bandwidth larger than 20M); VBW: =RBW Sweep Time: Auto Detector: Peak Trace: Max hold While the trace is stabilized, Use the 99 % bandwidth function of the spectrum analyser to measure the Occupied Channel Bandwidth of the UUT. This value shall be recorded. Mark lowest frequency FL of the 99% bandwidth and the highest Frequency FH of 99% bandwidth.
Verdict
Pass

5.4.1. Test Result

Refer to section 8 for details

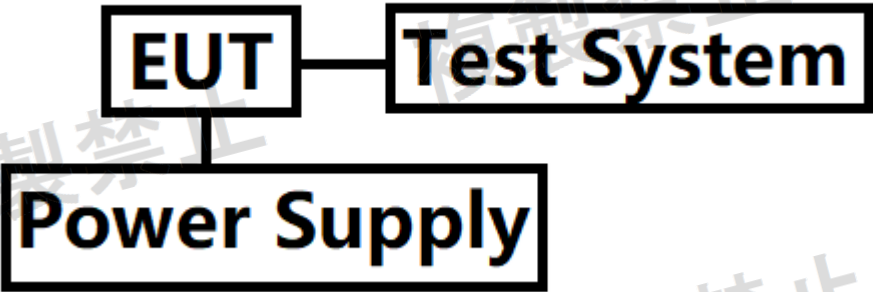
5.5. Spurious Emission Intensity

Limit			
W52			
20MHz system		40MHz system	80MHz system
OBW : 18MHz or less	OBW : 18 - 20 MHz		
5,142 MHz or less : 2.5 μ W/MHz	5,142 MHz or less : 2.5 μ W/MHz	5,141.6 MHz or less : 2.5 μ W/MHz	5,123.2 MHz or less : 2.5 μ W/MHz
5,142 - 5,160 MHz : 15 μ W/MHz	5,142 - 5,160 MHz : 15 μ W/MHz	5,141.6 - 5,160 MHz : 15 μ W/MHz	5,123.2 - 5,160 MHz : 15 μ W/MHz
5,260 - 5,261 MHz : $10^{-1-(f-52)/90}$ mW/MHz	5,260 - 5,261 MHz : $10^{-1-(f-52)/90}$ mW/MHz	5,260 - 5,261 MHz : $10^{-1-(f-52)/90}$ mW/MHz	5,260 - 5,261 MHz : $10^{-1-(f-52)/90}$ mW/MHz
5,261 - 5,262 MHz : $10^{-1-(f-52)/90}$ mW/MHz	5,261 - 5,262 MHz : $10^{-1-(f-52)/90}$ mW/MHz	5,261 - 5,270 MHz : $10^{-1-(f-52)/90}$ mW/MHz	5,261 - 5,262 MHz : $10^{-1-(f-52)/90}$ mW/MHz
5,262 - 5,267 MHz : $10^{-1-(f-52)/90}$ mW/MHz	5,262 - 5,267 MHz : $10^{-1-(f-52)/90}$ mW/MHz	5,270 - 5,278.4 MHz : $10^{-1-(f-52)/90}$ mW/MHz	5,262 - 5,267 MHz : $10^{-1-(f-52)/90}$ mW/MHz
5,267.7 MHz or more : 2.5 μ W/MHz	5,267.7 MHz or more : 2.5 μ W/MHz	5,278.4 MHz or more : 2.5 μ W/MHz	5,267.7 MHz or more : 2.5 μ W/MHz
f = MHz, Difference from 5240 (MHz)	f = MHz, Difference from 5240 (MHz)	f = MHz, Difference from 5230 (MHz)	f = MHz, Difference from 5210 (MHz)
W53			
20MHz system		40MHz system	80MHz system
OBW : 18MHz or less	OBW : 18 - 20 MHz		
5,233.3 MHz or less : 2.5 μ W/MHz	5,233.3 MHz or less : 2.5 μ W/MHz	5,221.6 MHz or less : 2.5 μ W/MHz	5,203.3 MHz or less : 2.5 μ W/MHz
5,233.3 - 5,240 MHz : $10^{-1-(f-53)/90}$ mW/MHz	5,233.3 - 5,240 MHz : $10^{-1-(f-53)/90}$ mW/MHz	5,221.6 - 5,230 MHz : $10^{-1-(f-53)/90}$ mW/MHz	5,203.3 - 5,210 MHz : $10^{-1-(f-53)/90}$ mW/MHz
5,240 - 5,249 MHz : $10^{-1-(f-53)/90}$ mW/MHz	5,240 - 5,249 MHz : $10^{-1-(f-53)/90}$ mW/MHz	5,230 - 5,249 MHz : $10^{-1-(f-53)/90}$ mW/MHz	5,210 - 5,249 MHz : $10^{-1-(f-53)/90}$ mW/MHz
5,249 - 5,250 MHz : $10^{-1-(f-53)/90}$ mW/MHz	5,249 - 5,250 MHz : $10^{-1-(f-53)/90}$ mW/MHz	5,249 - 5,250 MHz : $10^{-1-(f-53)/90}$ mW/MHz	5,249 - 5,250 MHz : $10^{-1-(f-53)/90}$ mW/MHz
5,250 MHz or more : 2.5 μ W/MHz	5,250 MHz or more : 2.5 μ W/MHz	5,250 - 5,259.4 MHz : 15 μ W/MHz	5,250 - 5,259.4 MHz : 15 μ W/MHz
f = MHz, Difference from 5200 (MHz)	f = MHz, Difference from 5200 (MHz)	f = MHz, Difference from 5270 (MHz)	f = MHz, Difference from 5290 (MHz)
Block diagram of Test Setup			
<pre> graph TD PS[Power Supply] --> TS[Test System] TS --> EUT[EUT] </pre>			
Test Setup			
Analyser frequency set to the wanted transmitting frequency Frequency Range: 30MHz ~ 26GHz RBW: 1MHz VBW: =RBW Sweep time: Auto Detector: Peak Trace: Max Hold Allow the trace to stabilize. Use mark-peak function to mark the highest emission level.			
Verdict			
Pass			

5.5.1. Test Result

Refer to section 8 for details

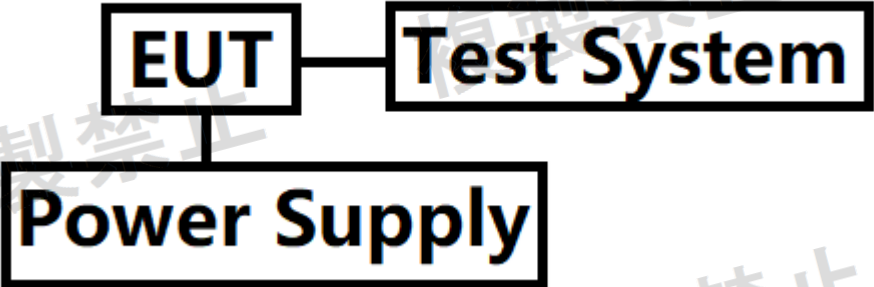
5.6. Second Radiated Emission

Limit
4nW or less at a frequency below 1 GHz and 20 nW or less at a frequency of 1 GHz or higher
Block diagram of Test Setup
 <pre> graph TD PS[Power Supply] --- EUT[EUT] EUT --- TS[Test System] </pre>
Test Setup
Analyser frequency set to the wanted transmitting frequency Frequency Range: 30MHz ~ 26GHz RBW: 100 kHz<1GHz; 1MHz>1GHz VBW:=RBW Sweep time: Auto Detector: Peak Trace: Max Hold Allow the trace to stabilize. Use mark-peak function to mark the highest emission level.
Verdict
Pass

5.6.1. Test Result

Refer to section 8 for details

5.7. Burst Length

Limit
≤8ms
Block diagram of Test Setup
 <pre> graph LR PS[Power Supply] --- EUT[EUT] EUT --- TS[Test System] </pre>
Test Setup
Analyser frequency set to the wanted transmitting frequency Test Frequency: Centre Frequency RBW: 8MHz VBW: =RBW Span: 0MHz Sweep time: Auto Detector: Peak Trace: Clear Sweep: Single
Verdict
Pass

5.7.1. Test Result

Refer to section 8 for details

5.8. Adjacent Channel Leakage Power

Limit

For OFDM, $OBW \leq 20\text{MHz}$

$\geq -25\text{dBc}$, $f_c \pm 20\text{MHz} \pm 10\text{MHz}$

$\geq -40\text{dBc}$, $f_c \pm 40\text{MHz} \pm 10\text{MHz}$

For OFDM, $20\text{MHz} \leq OBW \leq 40\text{MHz}$

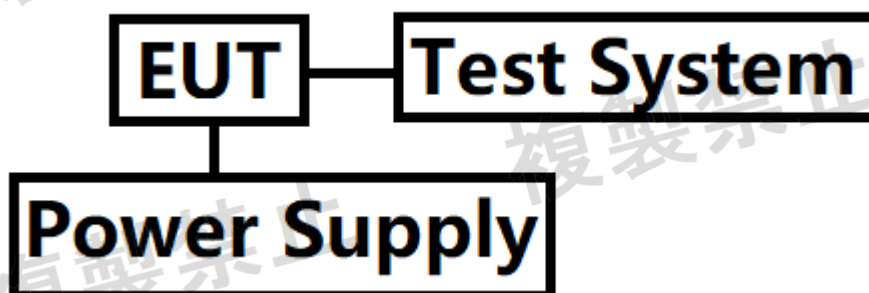
$\geq -25\text{dBc}$, $f_c \pm 40\text{MHz} \pm 20\text{MHz}$

$\geq -40\text{dBc}$, $f_c \pm 80\text{MHz} \pm 20\text{MHz}$

For OFDM, $40\text{MHz} \leq OBW \leq 80\text{MHz}$

$\geq -25\text{dBc}$, $f_c \pm 80\text{MHz} \pm 40\text{MHz}$

Block diagram of Test Setup



Test Setup

Analyser frequency set to the wanted transmitting frequency

Test Frequency: Centre Frequency

Span: Wide enough to capture whole trace

RBW: 300 kHz

VBW: =RBW

Sweep time: Auto

Detector: Peak

Trace: Max Hold

Allow the trace to stabilize.

Verdict

Pass

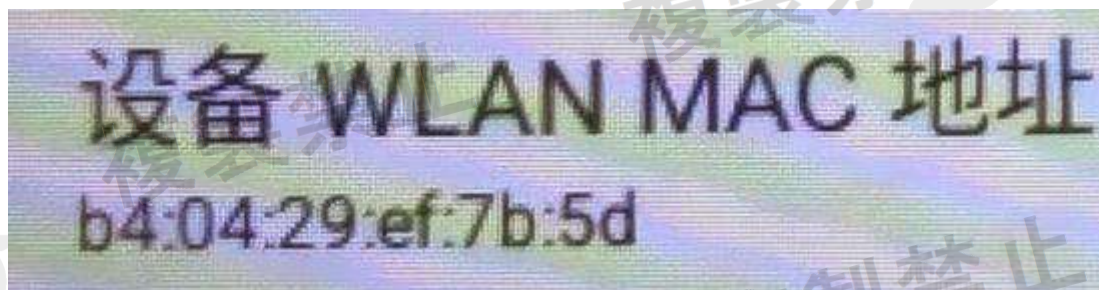
5.8.1. Test Result

Refer to section 8 for details

5.9. Interference Prevention Function

Limit		
a. Identification code transmission/reception: Radio equipment used mainly on the same premises and automatically transmits or receives identification code		
b. Frequency switching and other functions: Users shall be able to choose operating frequencies and halt emission.		
Block diagram of Test Setup		
	Radio equipment	Dummy load Attenuator
		Demodulator
Verdict		
Pass		

5.9.1. Test Result



5.10. Carrier Sense Capability

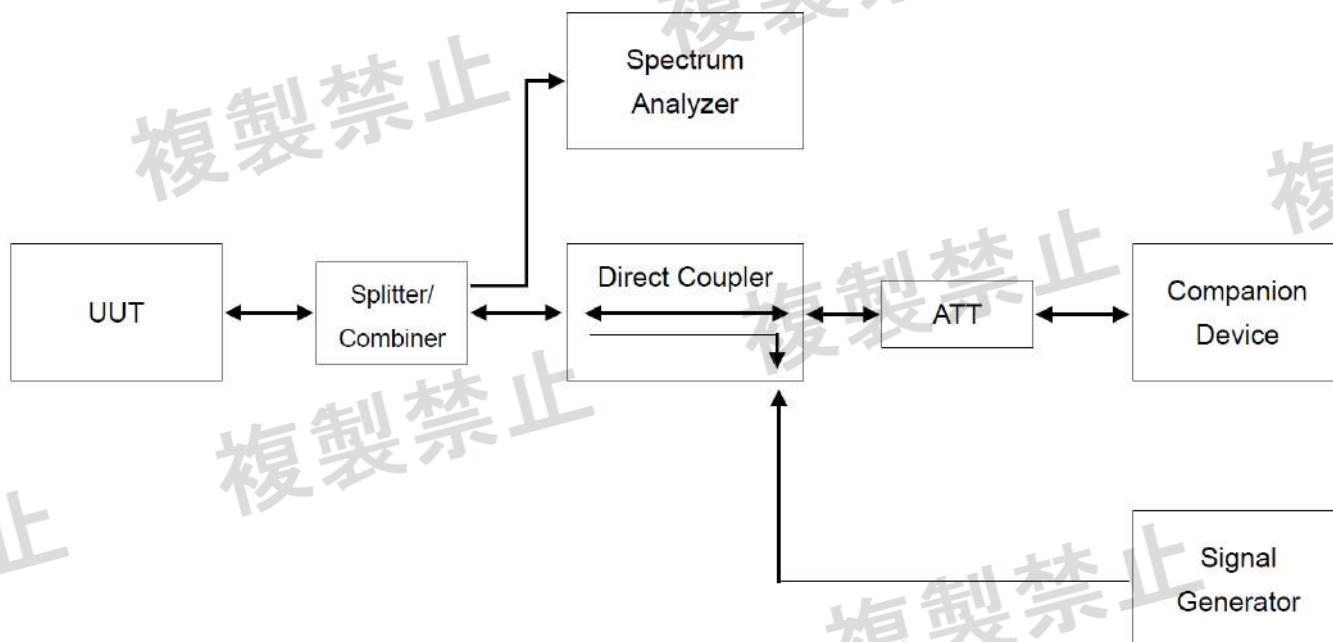
Limit

Stop transmission for interference signal level above 100mV/m (or level at $22.79 + Gr - 20 \cdot \log(f)$ [dBm])

f: indicated frequency in MHz

Gr: indicated the antenna gain in dBi

Block diagram of Test Setup



Test Procedures

1. SG adjusted the frequency as same as the EUT transmitted signal and emitted the absence of modulation from SG. Then turn off the RF signal of SG.
2. EUT have transmitted the maximum modulation signal and fixed channelize.
3. Set the Spectrum per the above form.
4. SG RF signal on, and adjust the signal level until the EUT stop transmission at the tested frequency. Record the signal level.
5. EUT shall be stop the transmission and SG RF signal off. Then EUT will be continuously transmitted signal.

Verdict

Pass, only worst case report.

5.10.1. Test Result

Test mode	Frequency (MHz)	Antenna Gain (dBi)	SG signal Level (dBm)	Carrier Sense Level (dBm)	Verdict
802.11ax(HEW80)	5210	2.98	-43	-48.6	PASS

6. Test setup photo

Refer to appendix I for details

7. Photo of the EUT

Refer to appendix II for details

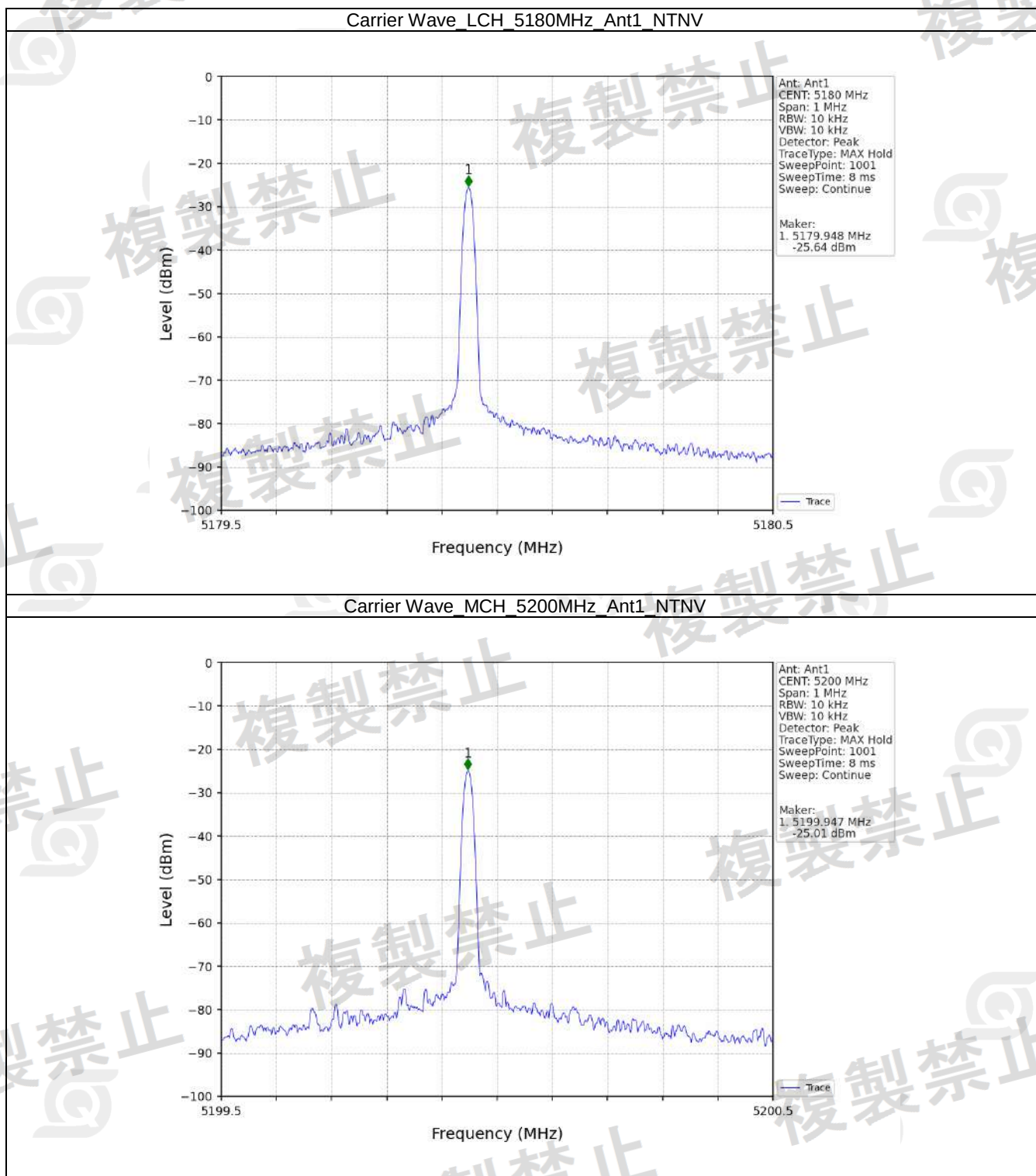
8. Test Result

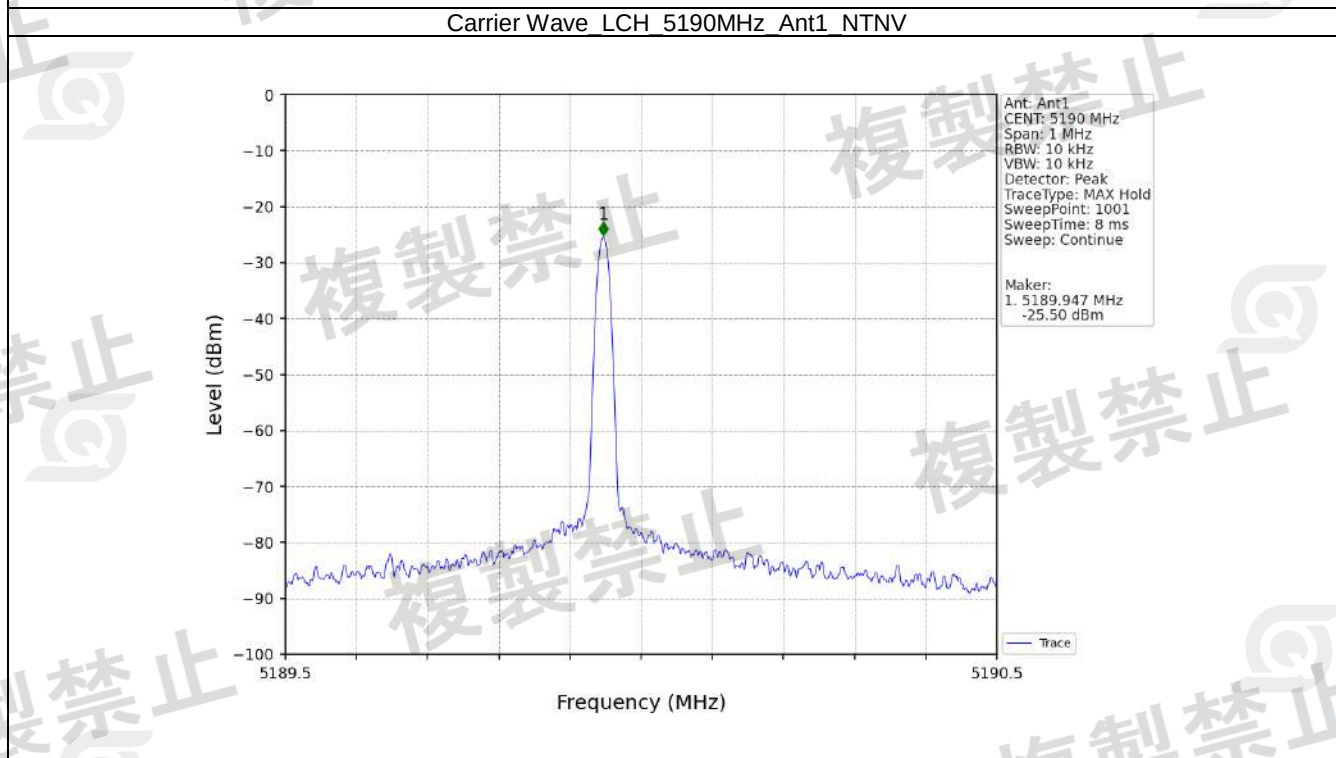
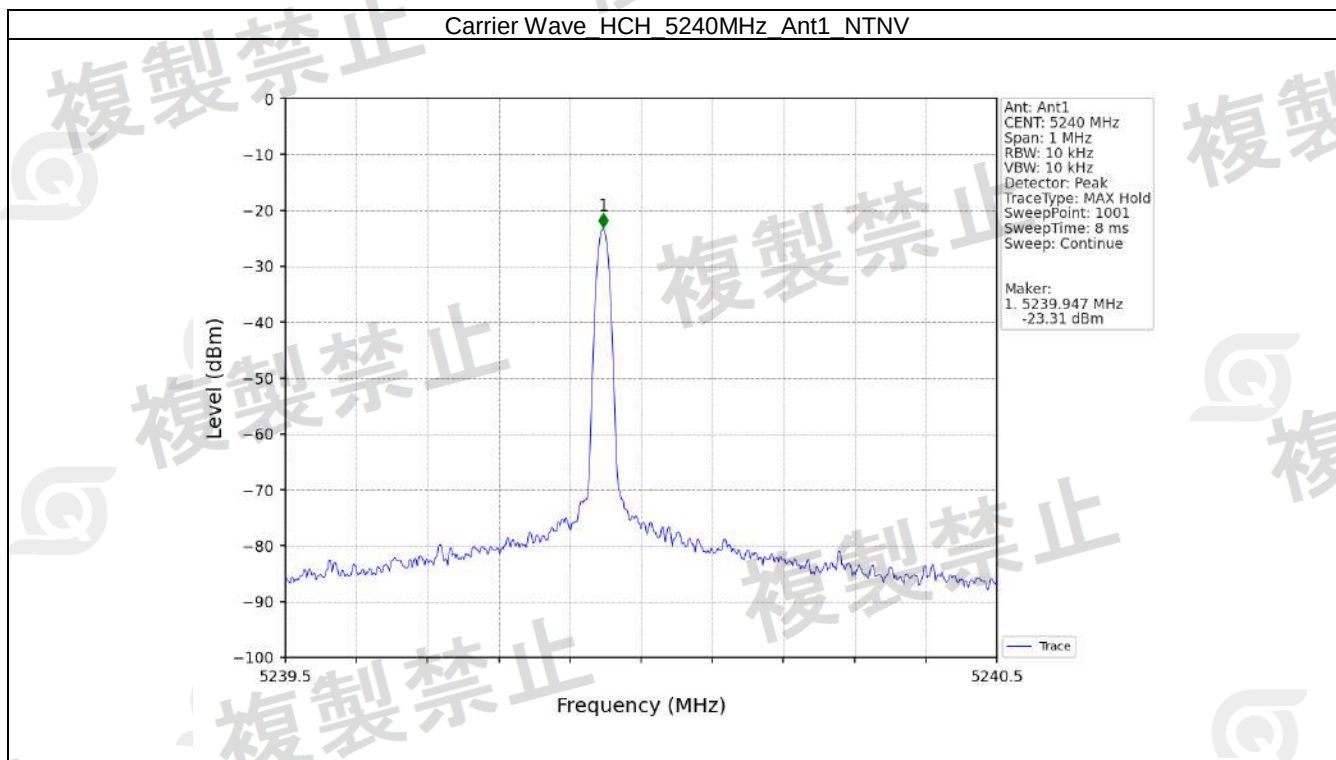
1. Frequency Error

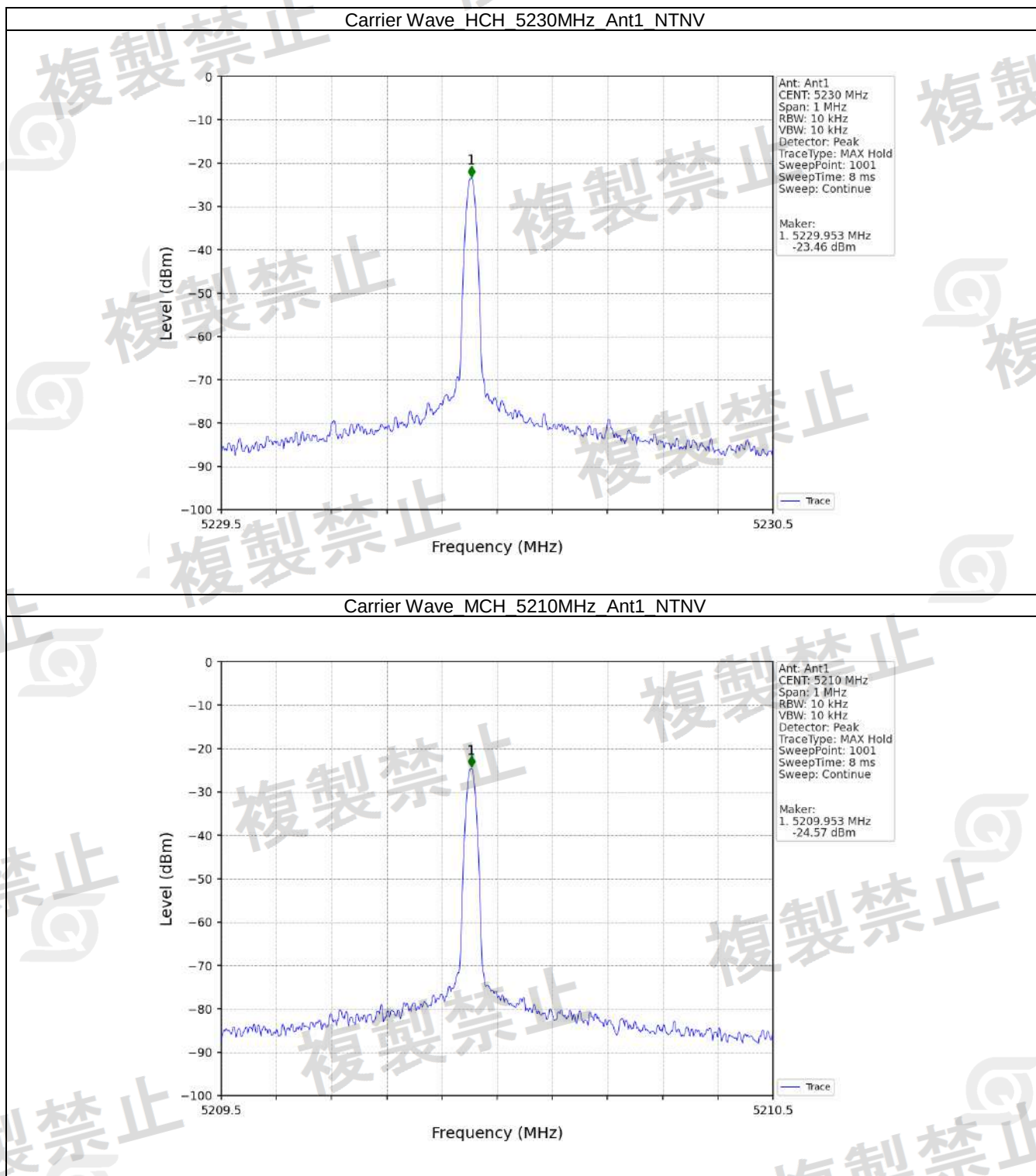
1.1 Test Result

Ant1							
ENV	Mode	TX Type	Frequency (MHz)	Measured Frequency (MHz)	Tolerance (ppm)		Verdict
					Result	Limit	
NTNV	Carrier Wave	SISO	5180	5179.948	-10.04	-20 to 20	Pass
			5200	5199.947	-10.19	-20 to 20	Pass
			5240	5239.947	-10.11	-20 to 20	Pass
			5190	5189.947	-10.21	-20 to 20	Pass
			5230	5229.953	-8.99	-20 to 20	Pass
			5210	5209.953	-9.02	-20 to 20	Pass

1.2 Test Graph





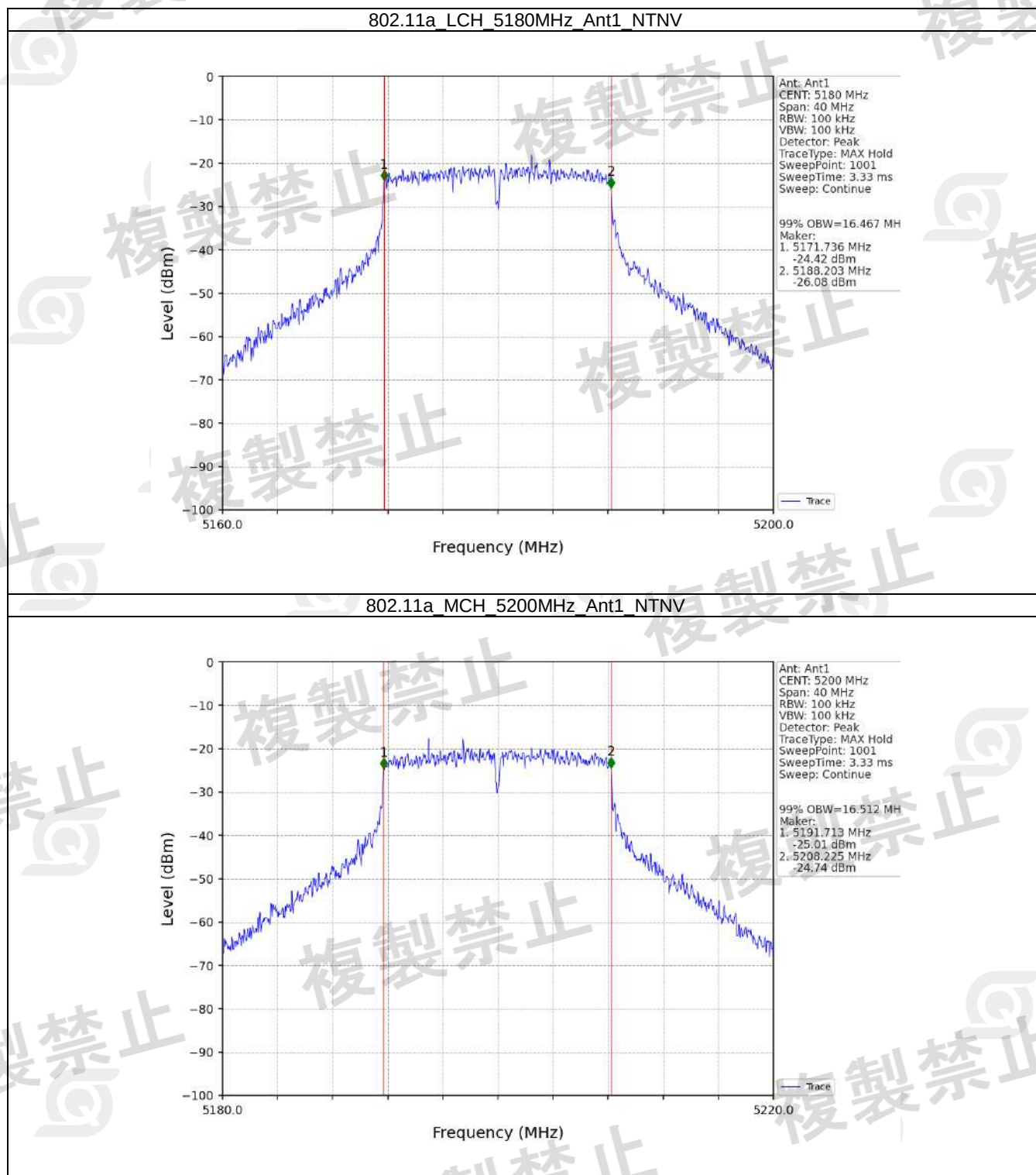


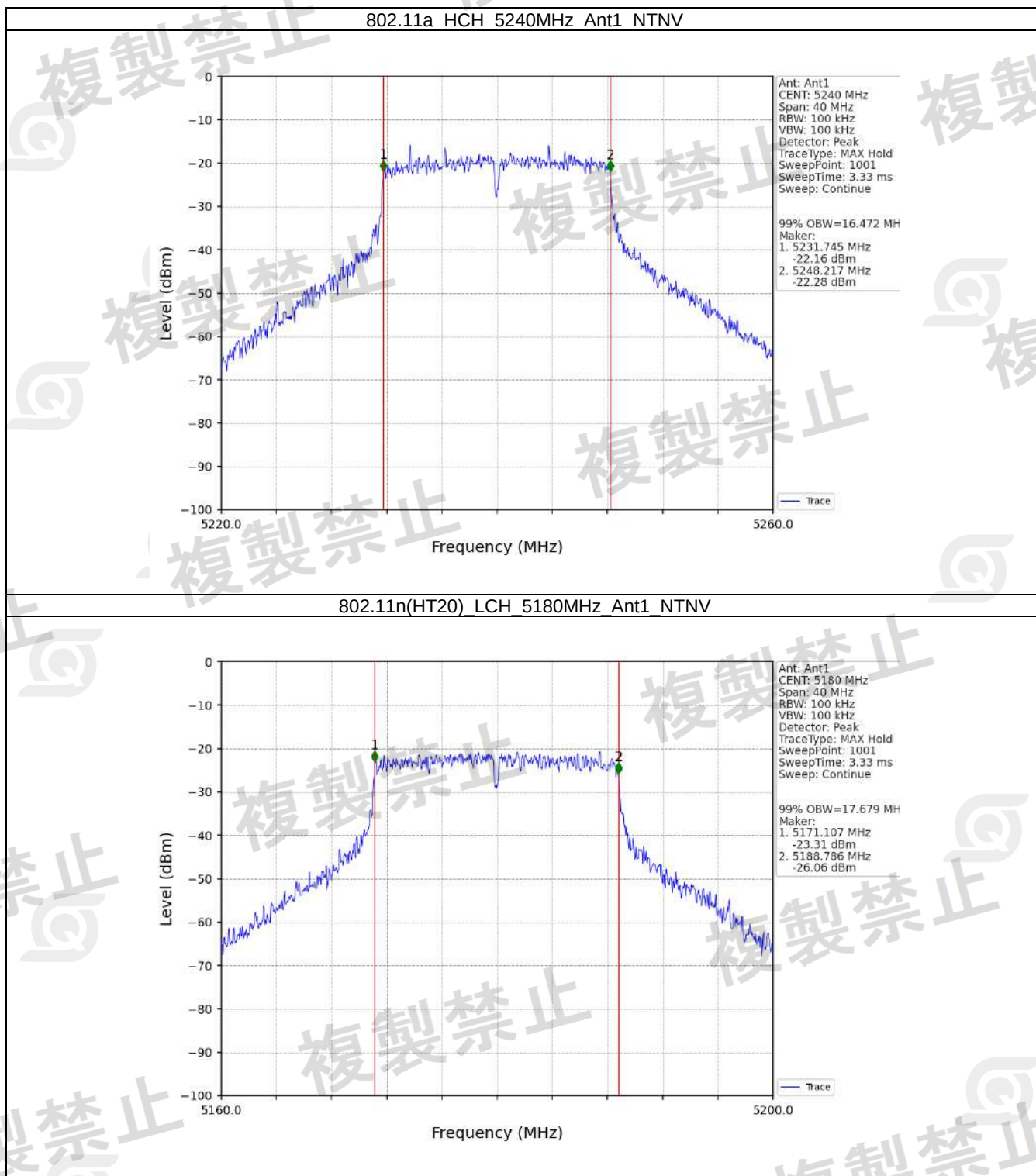
2. Occupied Bandwidth

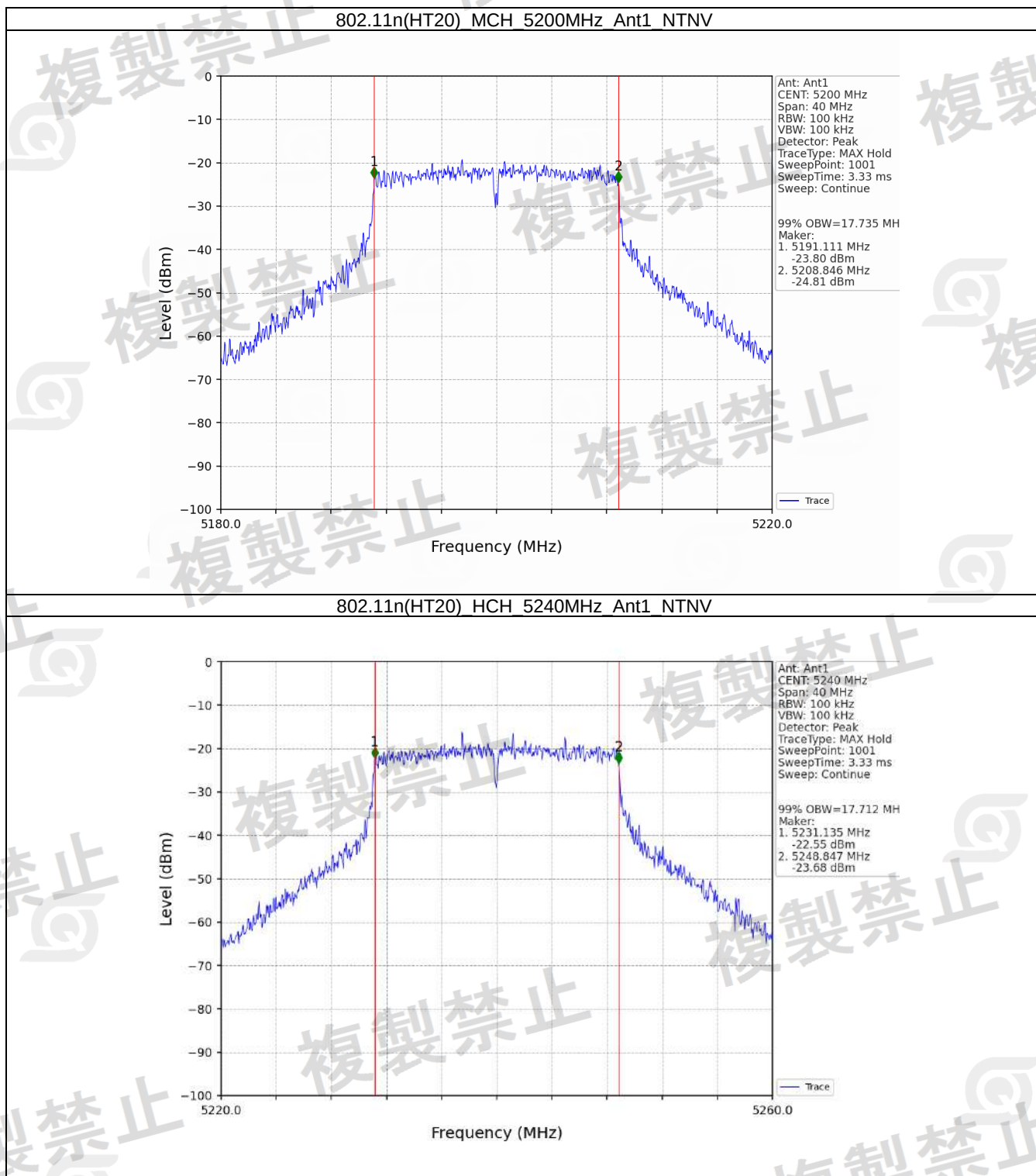
2.1 Test Result

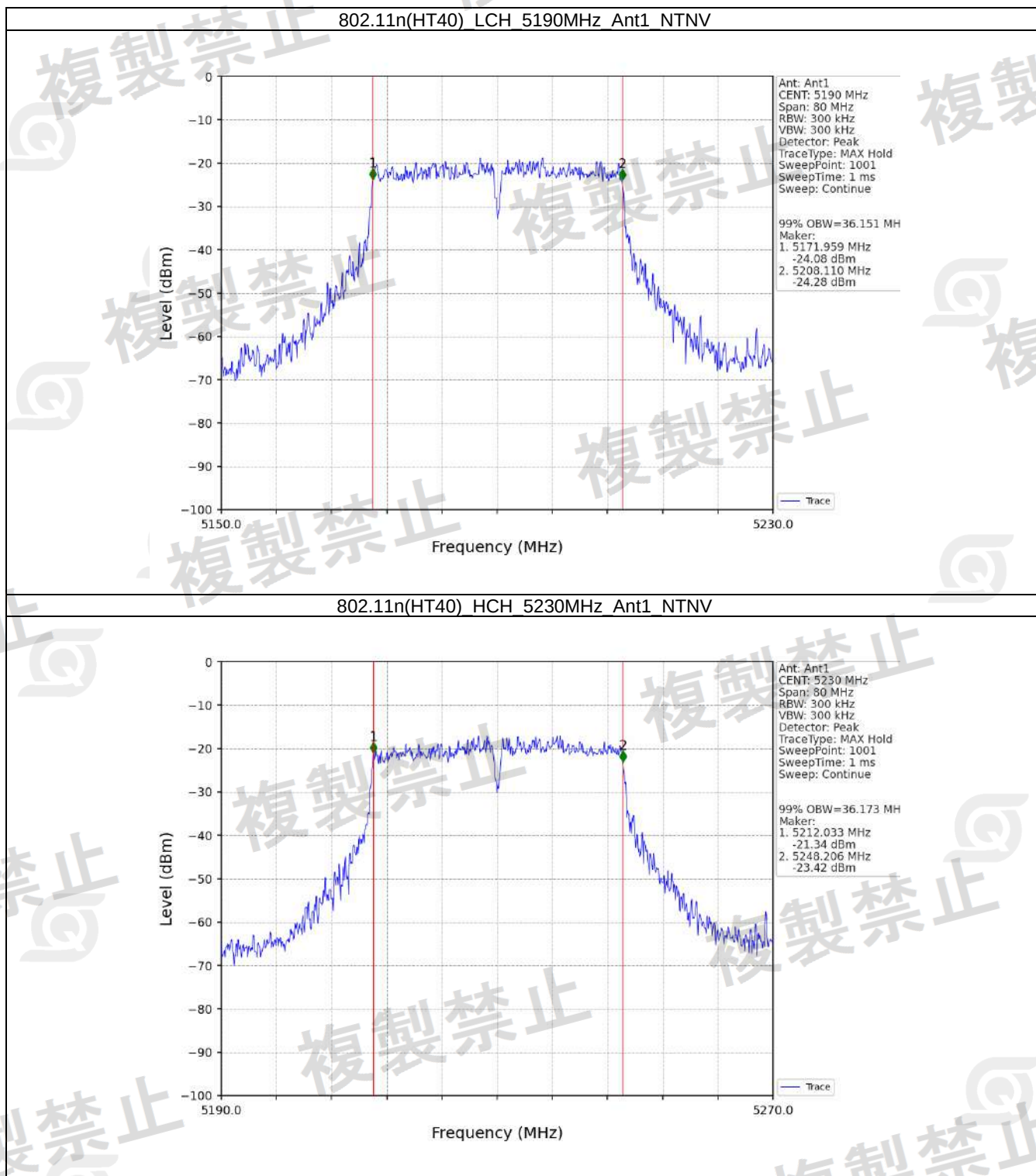
ENV	Mode	TX Type	Frequency (MHz)	RU	RU Pos	99% Occupied Bandwidth (MHz)		Verdict
						ANT1	Limit	
NTNV	802.11a	SISO	5180	/	/	16.467	<=20	Pass
			5200	/	/	16.512	<=20	Pass
			5240	/	/	16.472	<=20	Pass
	802.11n (HT20)	SISO	5180	/	/	17.679	<=20	Pass
			5200	/	/	17.735	<=20	Pass
			5240	/	/	17.712	<=20	Pass
	802.11n (HT40)	SISO	5190	/	/	36.151	<=40	Pass
			5230	/	/	36.173	<=40	Pass
	802.11ac (VHT20)	SISO	5180	/	/	17.698	<=20	Pass
			5200	/	/	17.669	<=20	Pass
			5240	/	/	17.690	<=20	Pass
	802.11ac (VHT40)	SISO	5190	/	/	36.231	<=40	Pass
			5230	/	/	36.280	<=40	Pass
	802.11ac (VHT80)	SISO	5210	/	/	75.504	<=80	Pass
	802.11ax (HEW20)	SISO	5180	SU	/	18.966	<=20	Pass
			5200	SU	/	18.959	<=20	Pass
			5240	SU	/	18.953	<=20	Pass
	802.11ax (HEW40)	SISO	5190	SU	/	37.899	<=40	Pass
			5230	SU	/	37.767	<=40	Pass
	802.11ax (HEW80)	SISO	5210	SU	/	77.275	<=80	Pass

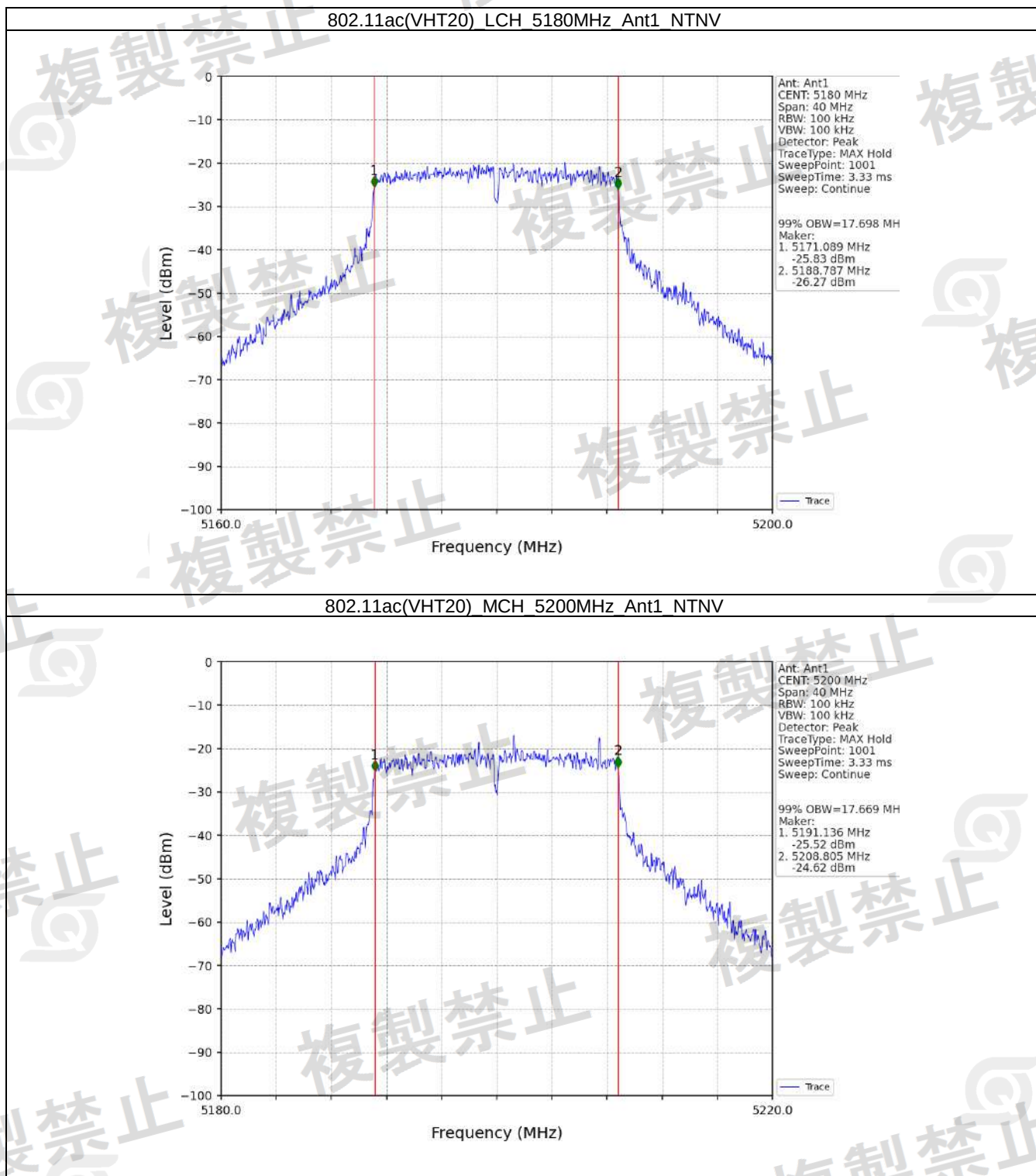
2.2 Test Graph

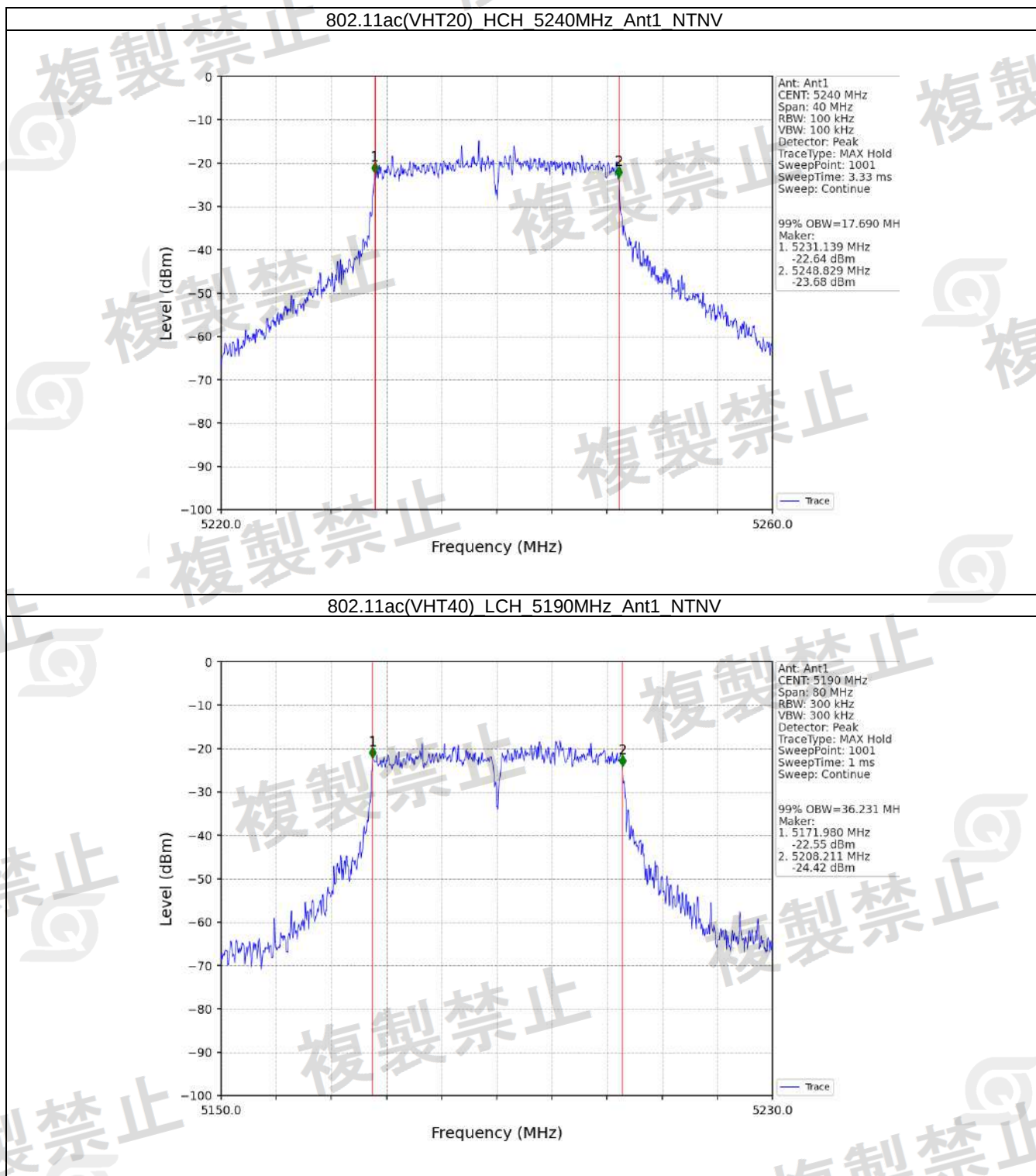


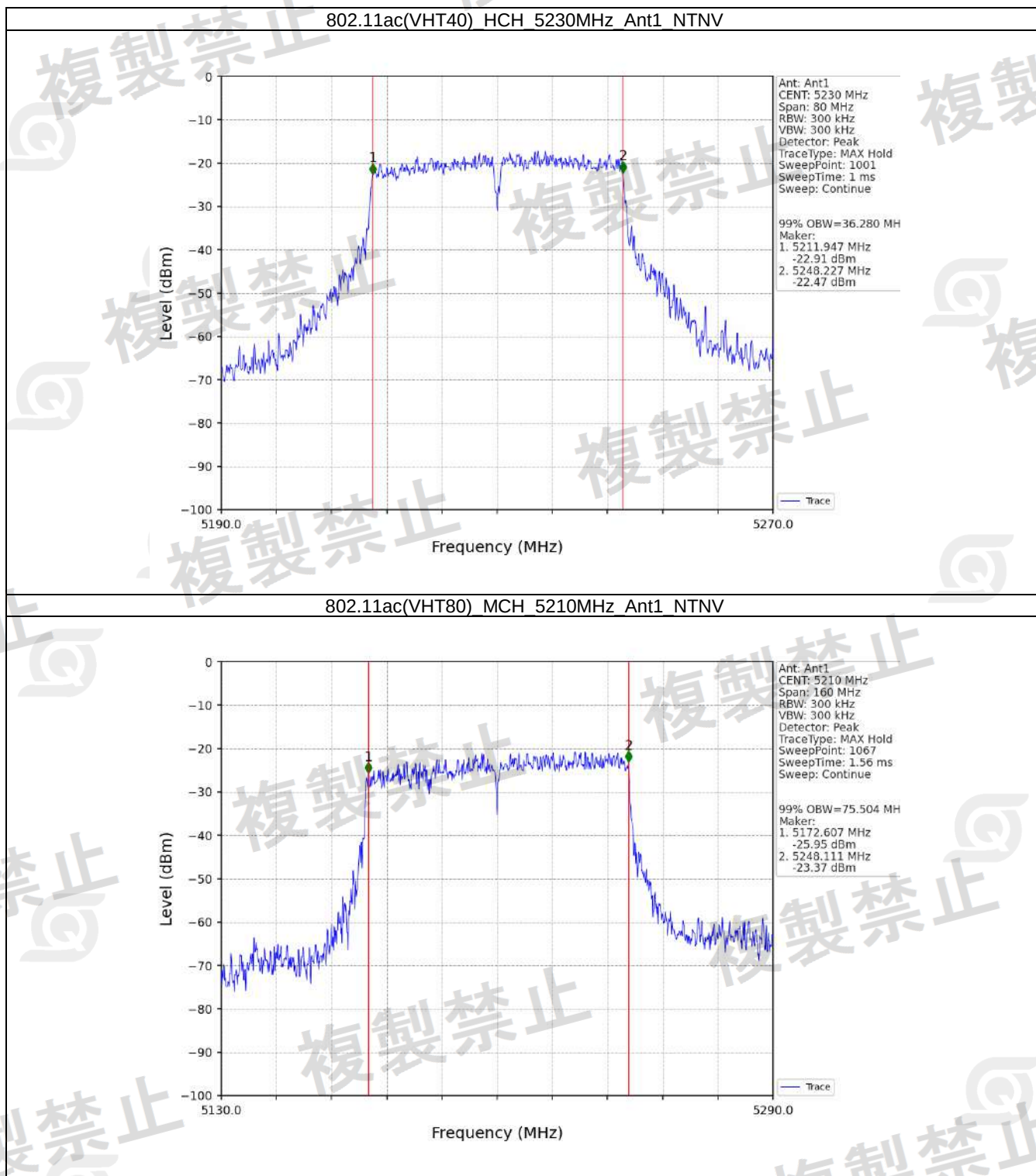


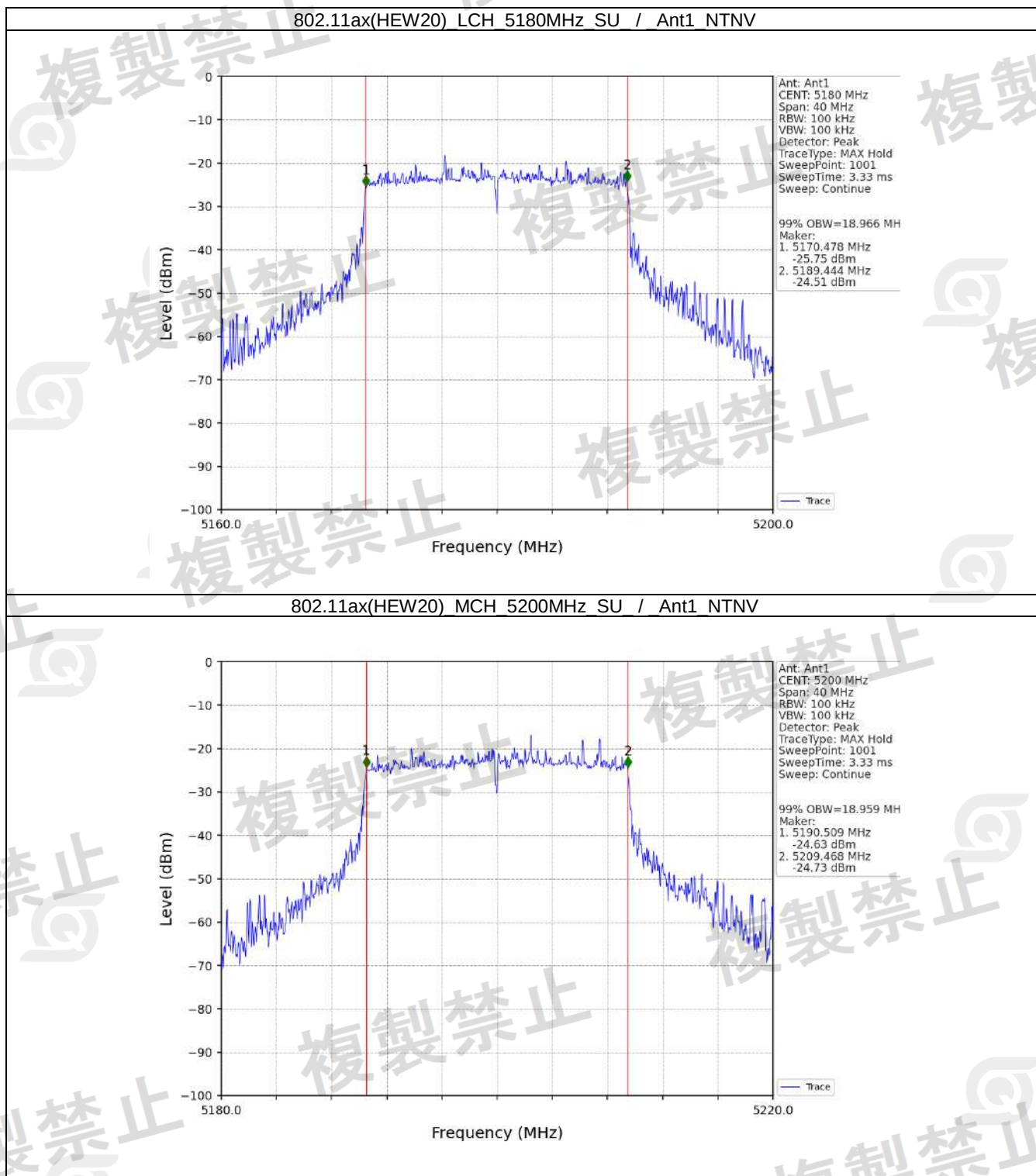


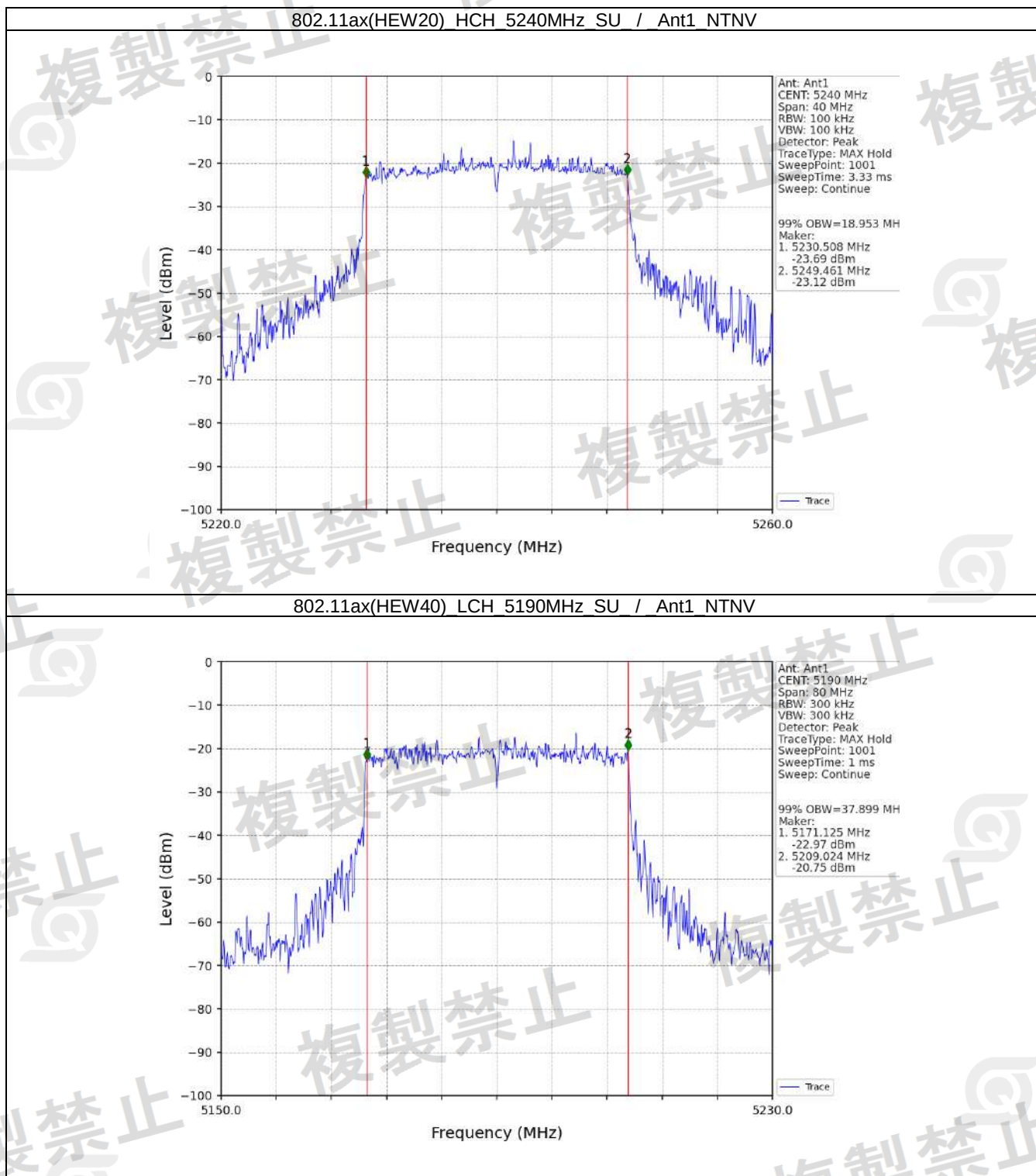


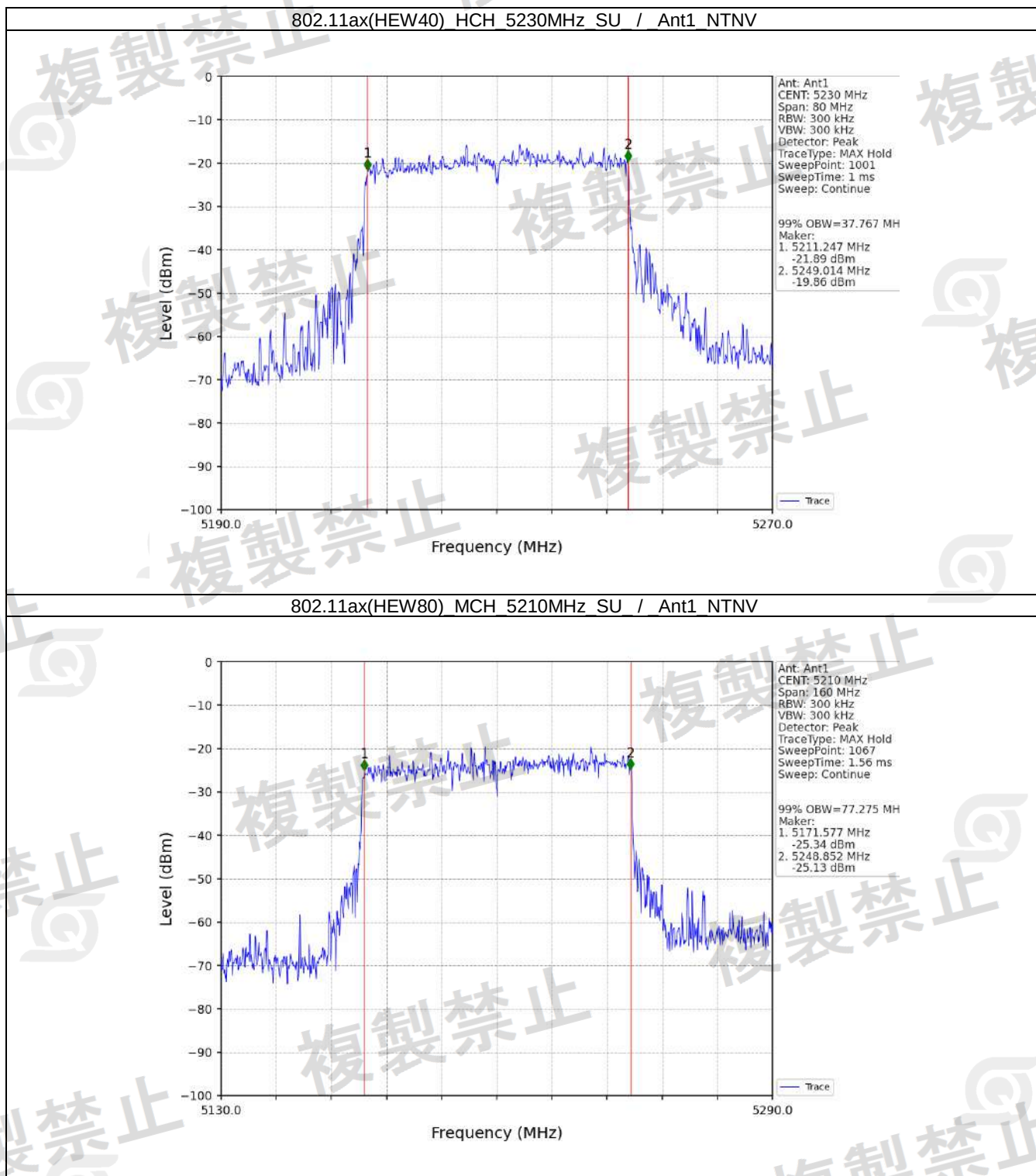












3. Antenna Power

3.1 Test Result

3.1.1 Power_NTNV

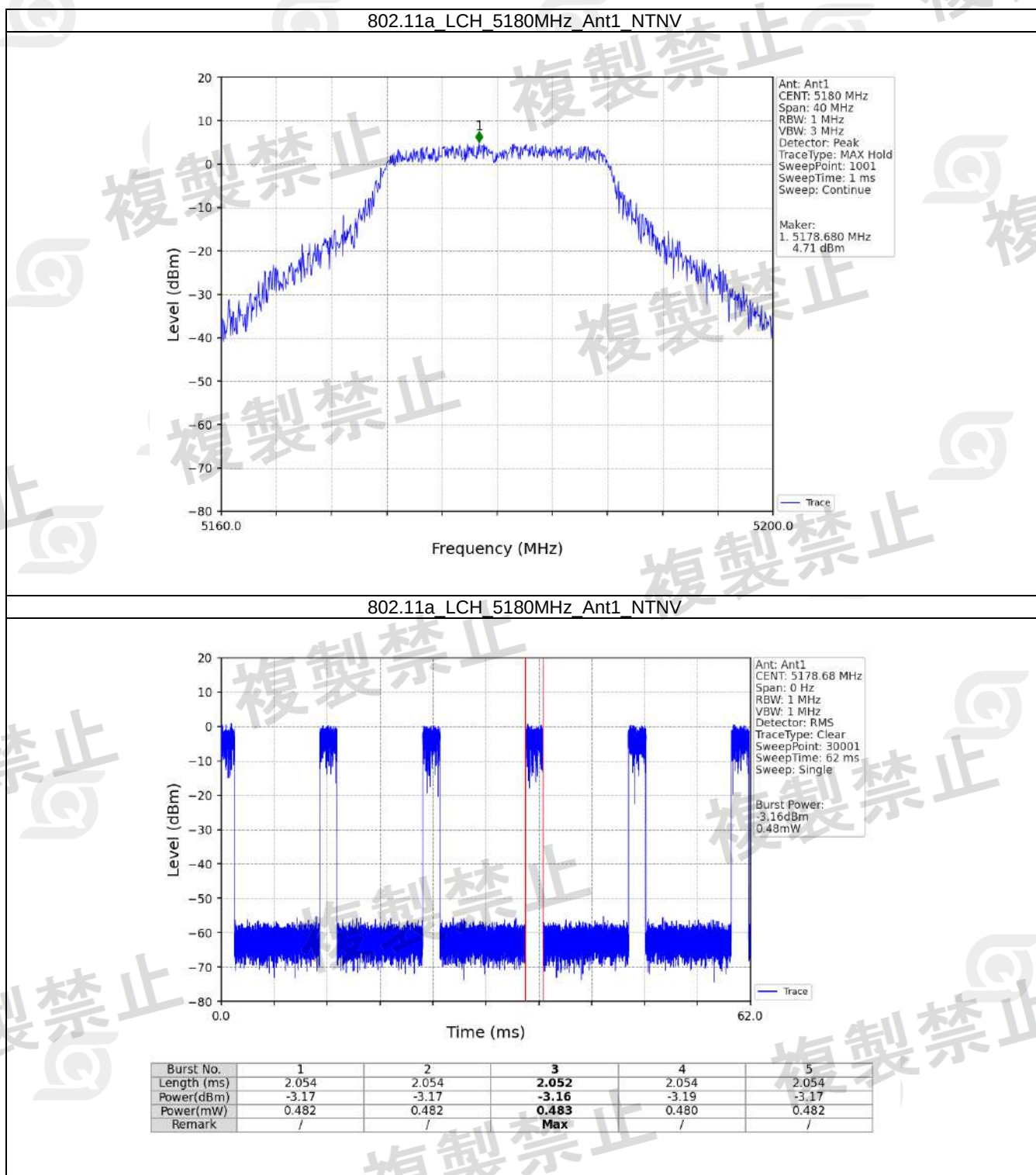
NTNV											
Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	Antenna Power (mW/MHz)		Nominal Power (mW/MHz)	Tolerance (%)		Verdict
						Measured	Limit		Measured	Limit	
802.11a	SISO	5180	/	/	1	0.483	<=10.00	0.5	-3.40	-80 to 20	Pass
		5200	/	/	1	0.532	<=10.00	0.5	6.40	-80 to 20	Pass
		5240	/	/	1	0.487	<=10.00	0.5	-2.60	-80 to 20	Pass
802.11n (HT20)	SISO	5180	/	/	1	0.427	<=10.00	0.5	-14.60	-80 to 20	Pass
		5200	/	/	1	0.468	<=10.00	0.5	-6.40	-80 to 20	Pass
		5240	/	/	1	0.431	<=10.00	0.5	-13.80	-80 to 20	Pass
802.11n (HT40)	SISO	5190	/	/	1	0.217	<=5.00	0.3	-27.67	-80 to 20	Pass
		5230	/	/	1	0.231	<=5.00	0.3	-23.00	-80 to 20	Pass
802.11ac (VHT20)	SISO	5180	/	/	1	0.428	<=10.00	0.5	-14.40	-80 to 20	Pass
		5200	/	/	1	0.463	<=10.00	0.5	-7.40	-80 to 20	Pass
		5240	/	/	1	0.455	<=10.00	0.5	-9.00	-80 to 20	Pass
802.11ac (VHT40)	SISO	5190	/	/	1	0.206	<=5.00	0.3	-31.33	-80 to 20	Pass
		5230	/	/	1	0.214	<=5.00	0.3	-28.67	-80 to 20	Pass
802.11ac (VHT80)	SISO	5210	/	/	1	0.114	<=2.50	0.1	14.00	-80 to 20	Pass
802.11ax (HEW20)	SISO	5180	SU	/	1	0.367	<=10.00	0.5	-26.60	-80 to 20	Pass
		5200	SU	/	1	0.417	<=10.00	0.5	-16.60	-80 to 20	Pass
		5240	SU	/	1	0.359	<=10.00	0.5	-28.20	-80 to 20	Pass
802.11ax (HEW40)	SISO	5190	SU	/	1	0.201	<=5.00	0.3	-33.00	-80 to 20	Pass
		5230	SU	/	1	0.230	<=5.00	0.3	-23.33	-80 to 20	Pass
802.11ax (HEW80)	SISO	5210	SU	/	1	0.093	<=2.50	0.1	-7.00	-80 to 20	Pass

3.1.4 EIRP_NTNV

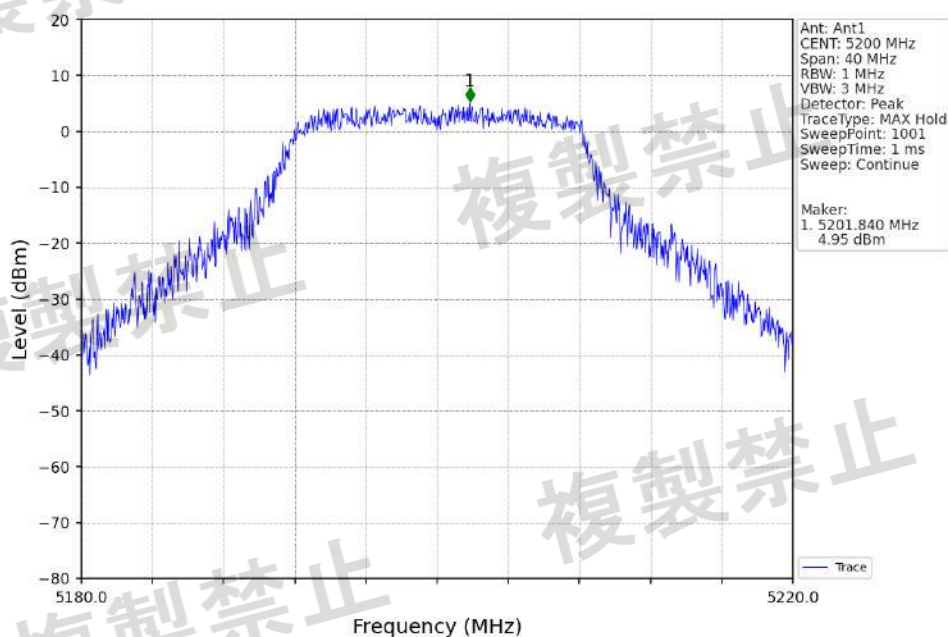
NTNV									
Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	Gain (dBi)	EIRP (mW/MHz)		Verdict
							Result	Limit	
802.11a	SISO	5180	/	/	1	2.98	-0.18	<=10	Pass
		5200	/	/	1	2.98	0.24	<=10	Pass
		5240	/	/	1	2.98	-0.14	<=10	Pass
802.11n (HT20)	SISO	5180	/	/	1	2.98	-0.72	<=10	Pass
		5200	/	/	1	2.98	-0.32	<=10	Pass
		5240	/	/	1	2.98	-0.68	<=10	Pass
802.11n (HT40)	SISO	5190	/	/	1	2.98	-3.66	<=5	Pass
		5230	/	/	1	2.98	-3.38	<=5	Pass
802.11ac (VHT20)	SISO	5180	/	/	1	2.98	-0.71	<=10	Pass
		5200	/	/	1	2.98	-0.36	<=10	Pass
		5240	/	/	1	2.98	-0.44	<=10	Pass
802.11ac (VHT40)	SISO	5190	/	/	1	2.98	-3.88	<=5	Pass
		5230	/	/	1	2.98	-3.72	<=5	Pass
802.11ac (VHT80)	SISO	5210	/	/	1	2.98	-6.45	<=2.5	Pass
802.11ax (HEW20)	SISO	5180	SU	/	1	2.98	-1.37	<=10	Pass
		5200	SU	/	1	2.98	-0.82	<=10	Pass
		5240	SU	/	1	2.98	-1.47	<=10	Pass
802.11ax (HEW40)	SISO	5190	SU	/	1	2.98	-3.99	<=5	Pass
		5230	SU	/	1	2.98	-3.40	<=5	Pass
802.11ax (HEW80)	SISO	5210	SU	/	1	2.98	-7.34	<=2.5	Pass

4.2 Test Graph

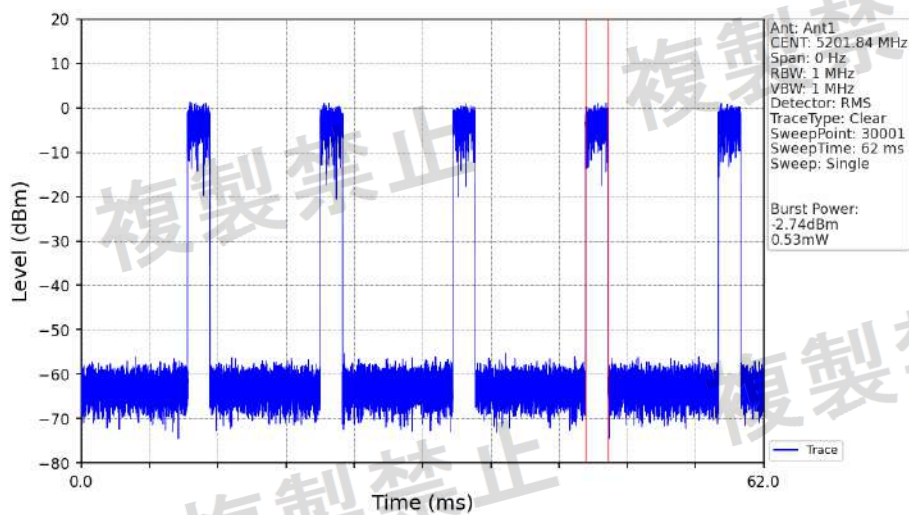
4.2.1 Power_NTNV



802.11a MCH 5200MHz Ant1 NTNV

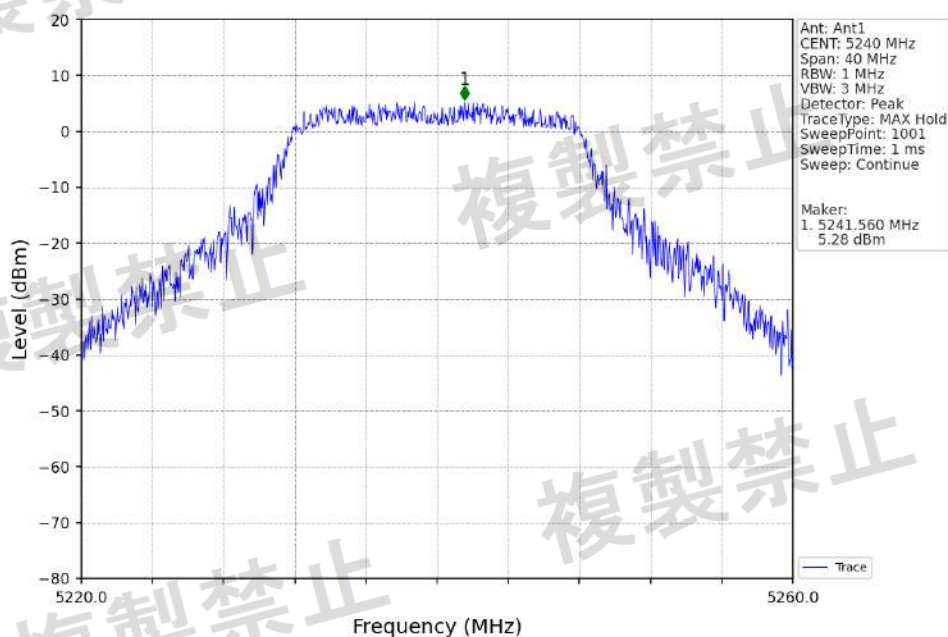


802.11a MCH 5200MHz Ant1 NTNV

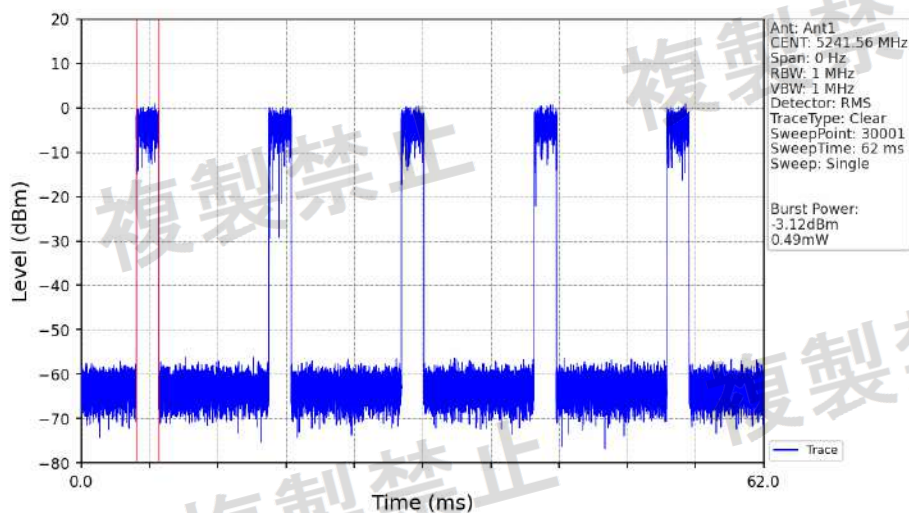


Burst No.	1	2	3	4	5
Length (ms)	2.034	2.034	2.034	2.032	2.032
Power(dBm)	-2.86	-2.84	-2.80	-2.74	-2.77
Power(mW)	0.518	0.520	0.524	0.532	0.528
Remark	/	/	/	Max	/

802.11a HCH 5240MHz Ant1 NTVN

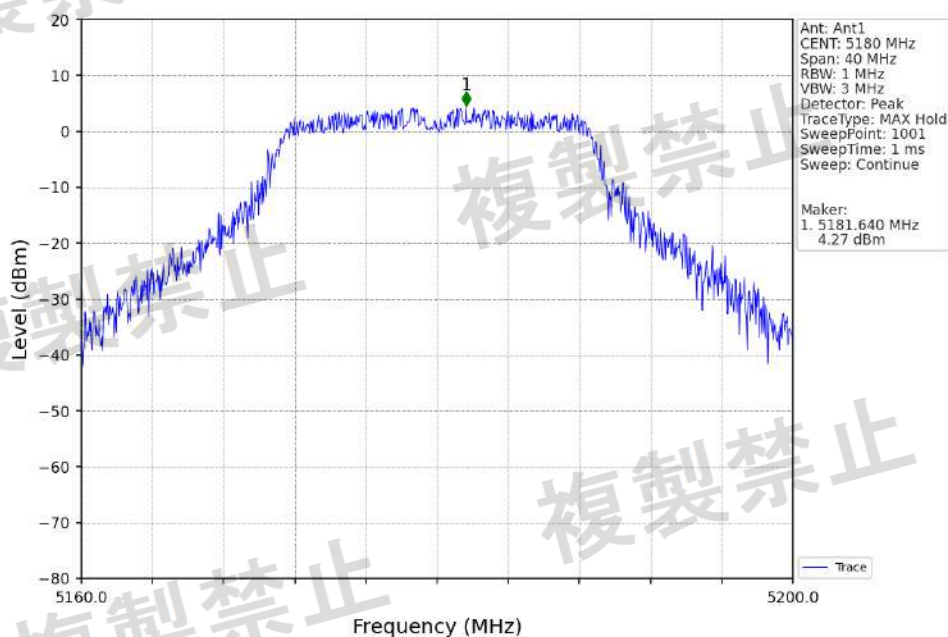


802.11a HCH 5240MHz Ant1 NTVN

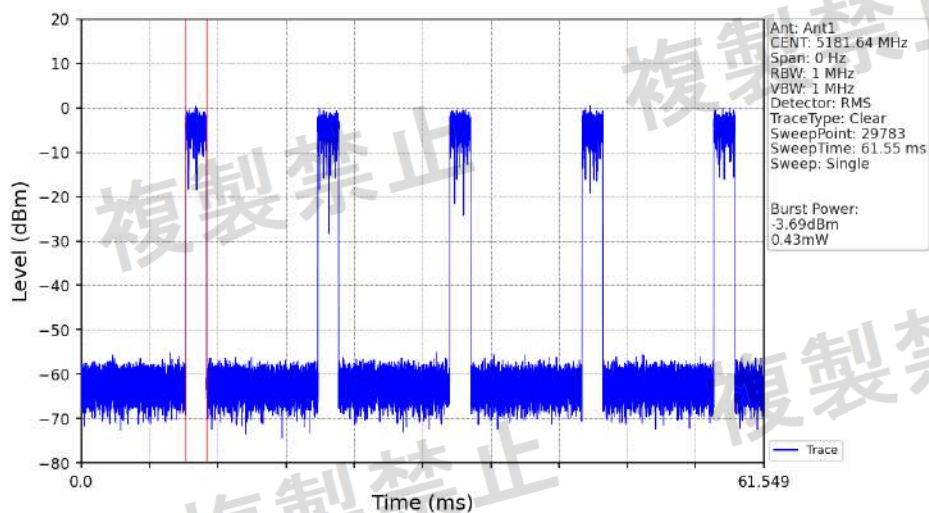


Burst No.	1	2	3	4	5
Length (ms)	2.034	2.034	2.032	2.034	2.034
Power(dBm)	-3.12	-3.37	-3.27	-3.20	-3.15
Power(mW)	0.487	0.460	0.471	0.479	0.484
Remark	Max	/	/	/	/

802.11n(HT20) LCH 5180MHz Ant1 NTVN

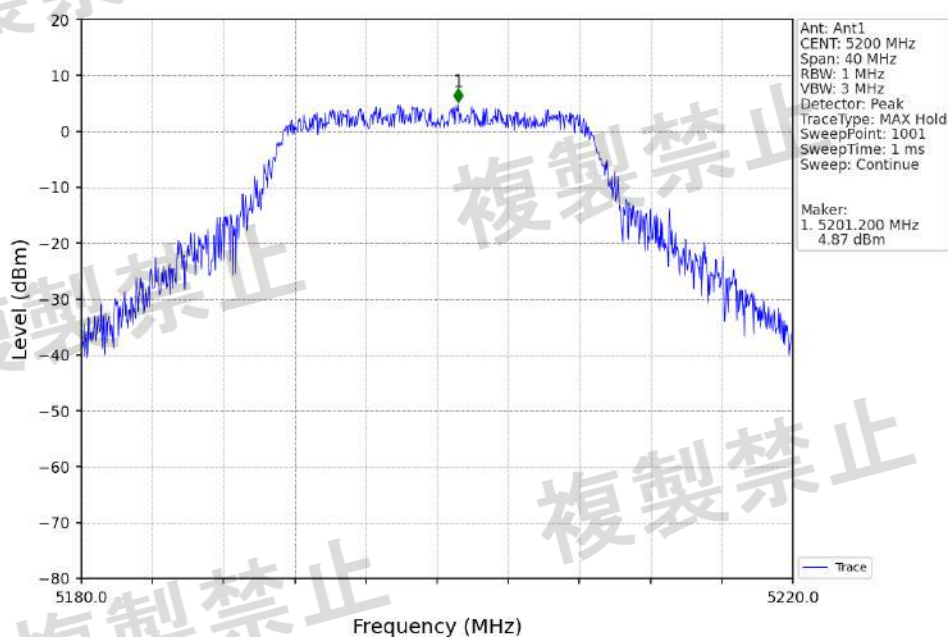


802.11n(HT20) LCH 5180MHz Ant1 NTVN

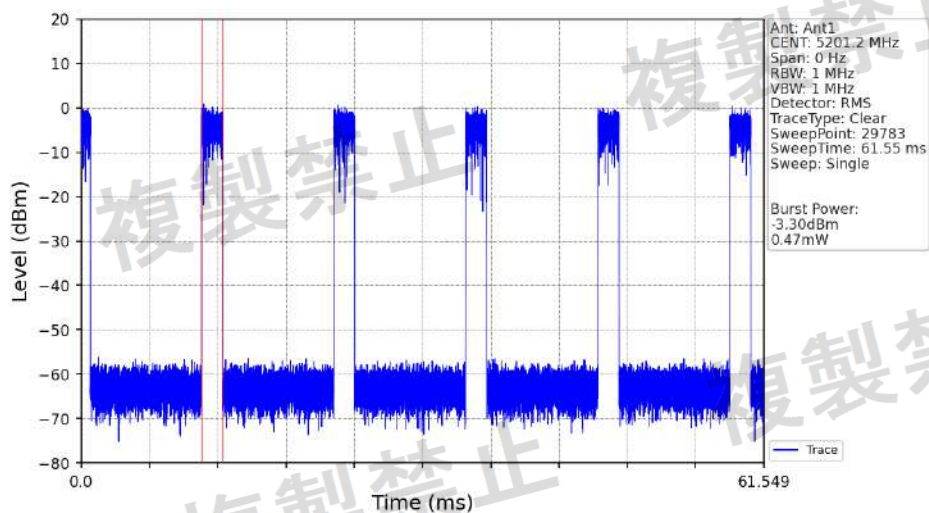


Burst No.	1	2	3	4	5
Length (ms)	1.893	1.893	1.893	1.893	1.895
Power(dBm)	-3.69	-3.77	-3.71	-3.78	-3.83
Power(mW)	0.427	0.419	0.426	0.419	0.414
Remark	Max	/	/	/	/

802.11n(HT20) MCH 5200MHz Ant1 NTN

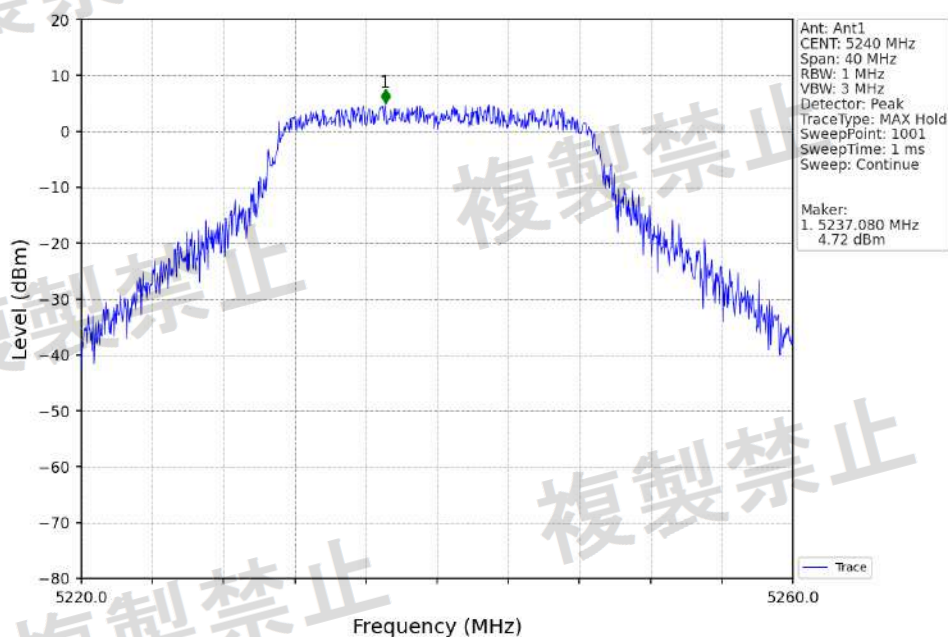


802.11n(HT20) MCH 5200MHz Ant1 NTN

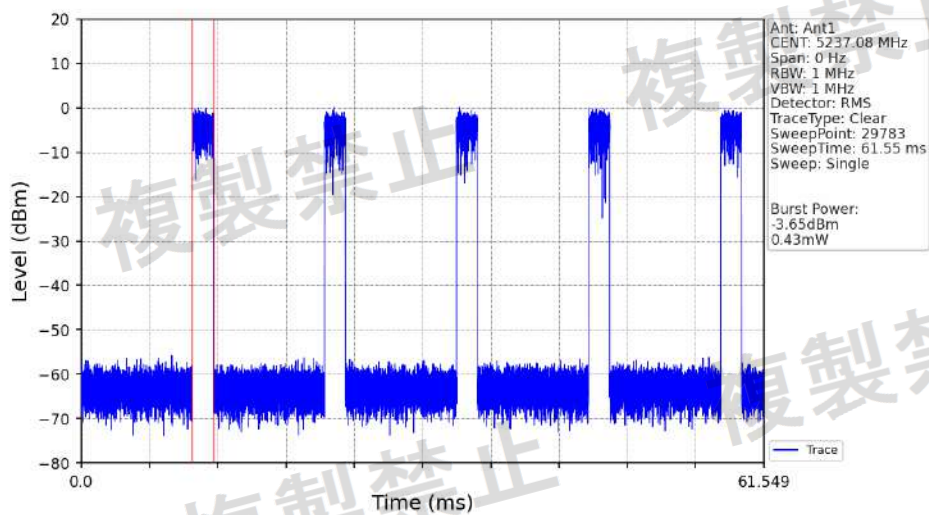


Burst No.	1	2	3	4	5
Length (ms)	1.893	1.893	1.893	1.893	1.893
Power(dBm)	-3.30	-3.33	-3.47	-3.49	-3.56
Power(mW)	0.468	0.464	0.450	0.447	0.440
Remark	Max	/	/	/	/

802.11n(HT20) HCH 5240MHz Ant1 NTN

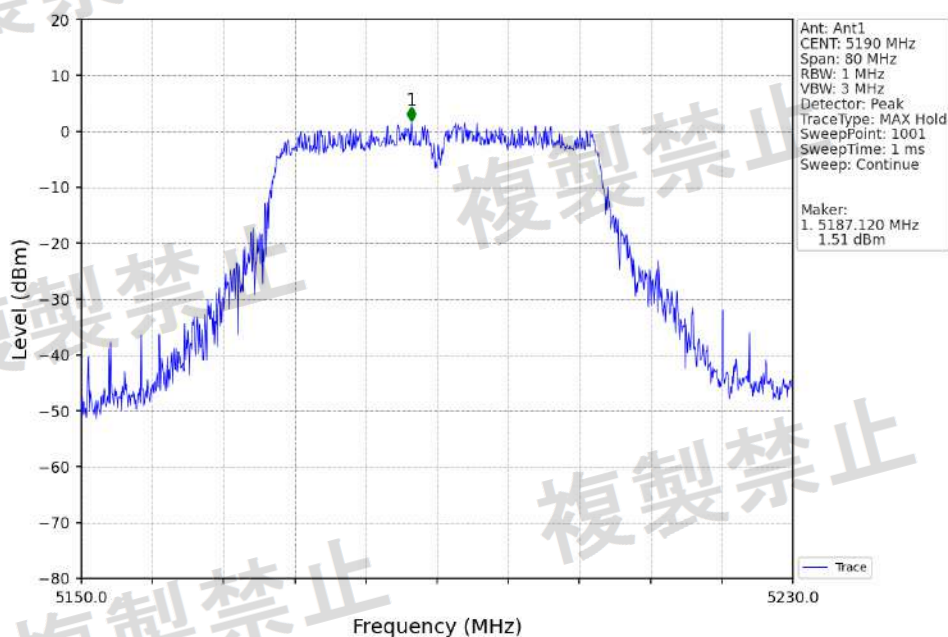


802.11n(HT20) HCH 5240MHz Ant1 NTN

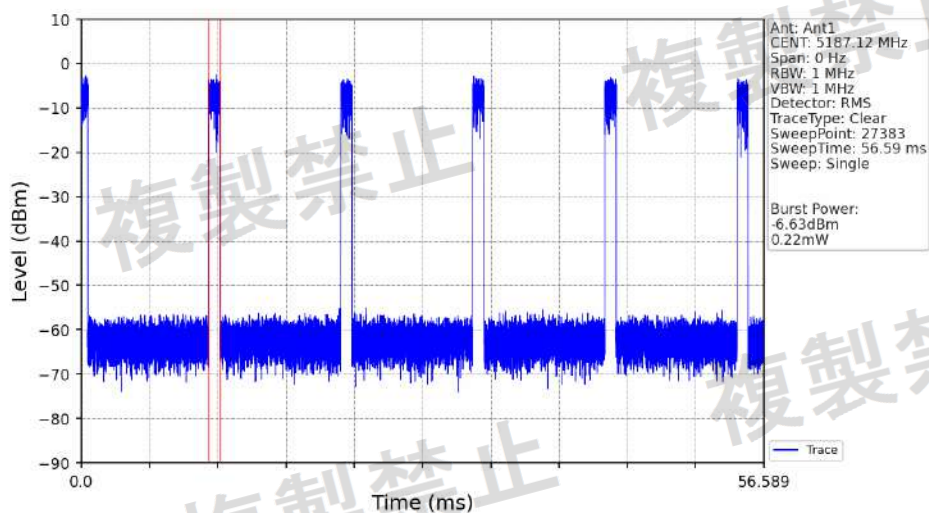


Burst No.	1	2	3	4	5
Length (ms)	1.893	1.893	1.893	1.893	1.893
Power(dBm)	-3.65	-3.92	-3.85	-3.86	-3.82
Power(mW)	0.431	0.406	0.412	0.411	0.415
Remark	Max	/	/	/	/

802.11n(HT40) LCH 5190MHz Ant1 NTVN

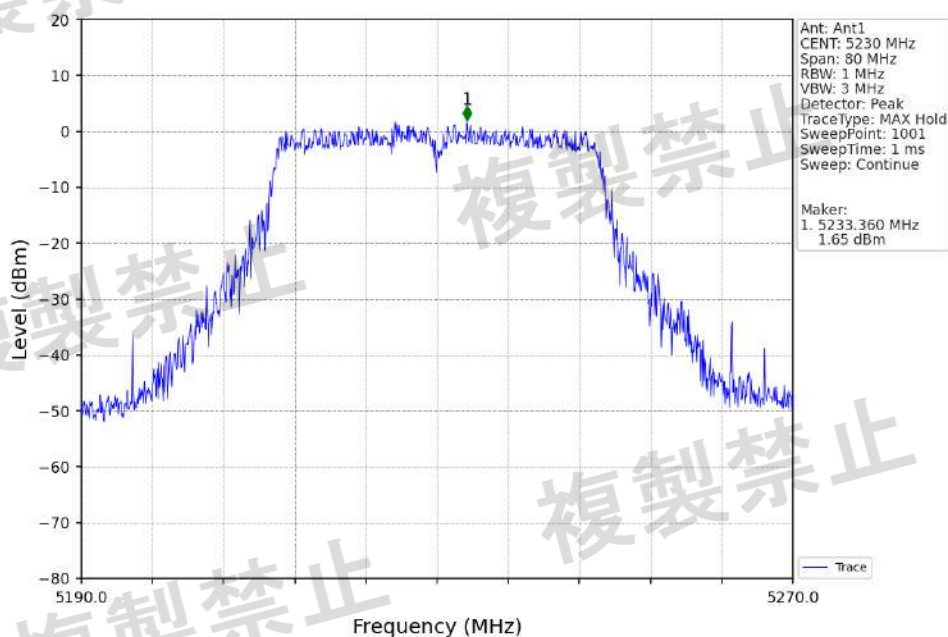


802.11n(HT40) LCH 5190MHz Ant1 NTVN

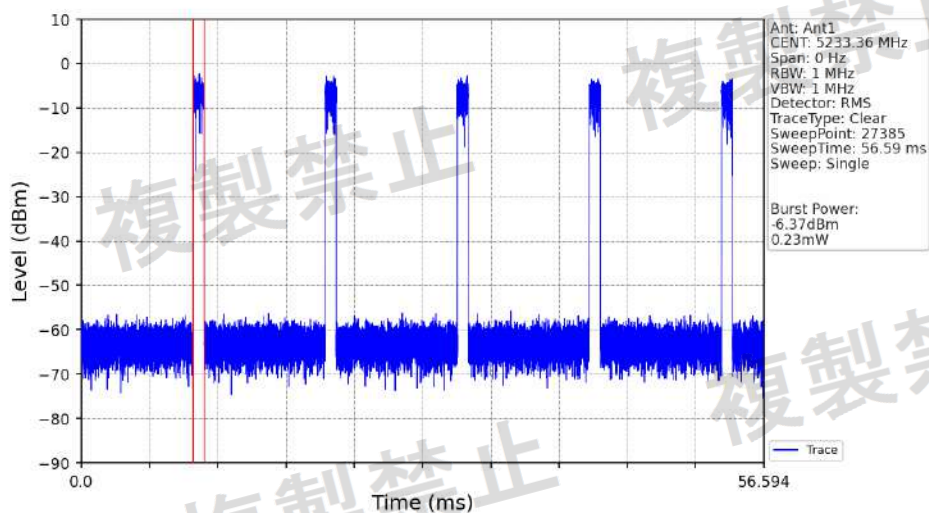


Burst No.	1	2	3	4	5
Length (ms)	0.932	0.934	0.934	0.932	0.932
Power(dBm)	-6.63	-6.65	-6.67	-6.69	-6.73
Power(mW)	0.217	0.216	0.215	0.214	0.212
Remark	Max	/	/	/	/

802.11n(HT40) HCH 5230MHz Ant1 NTN

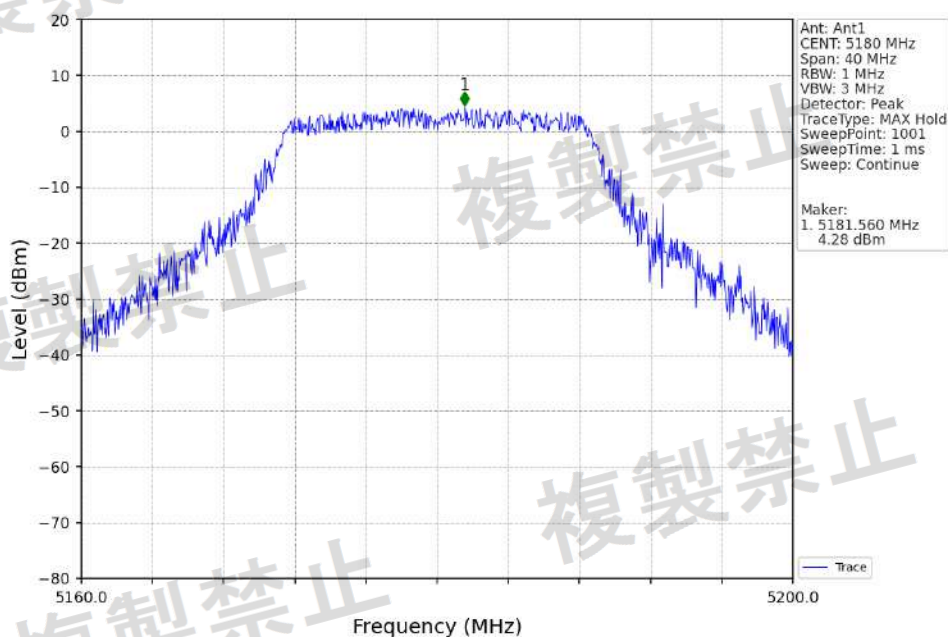


802.11n(HT40) HCH 5230MHz Ant1 NTN

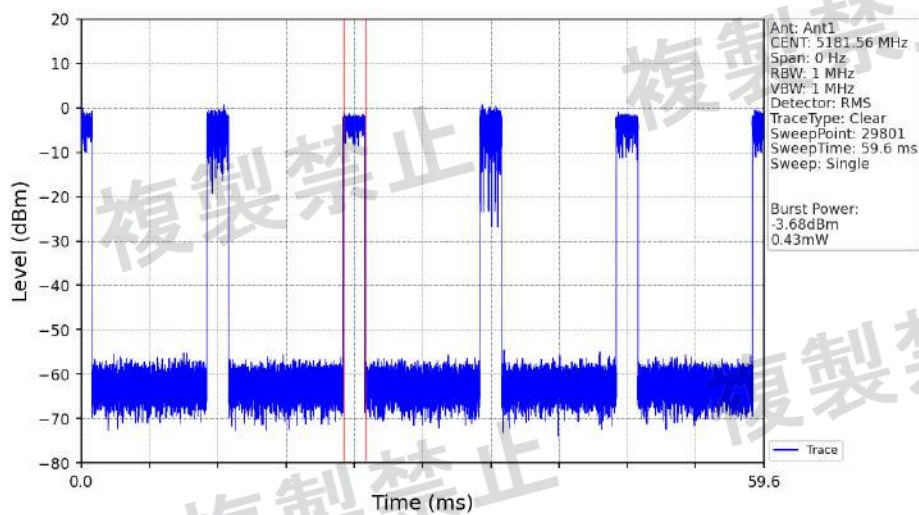


Burst No.	1	2	3	4	5
Length (ms)	0.932	0.932	0.934	0.932	0.932
Power(dBm)	-6.37	-6.61	-6.58	-6.58	-6.60
Power(mW)	0.231	0.218	0.220	0.220	0.219
Remark	Max	/	/	/	/

802.11ac(VHT20) LCH 5180MHz Ant1 NTV

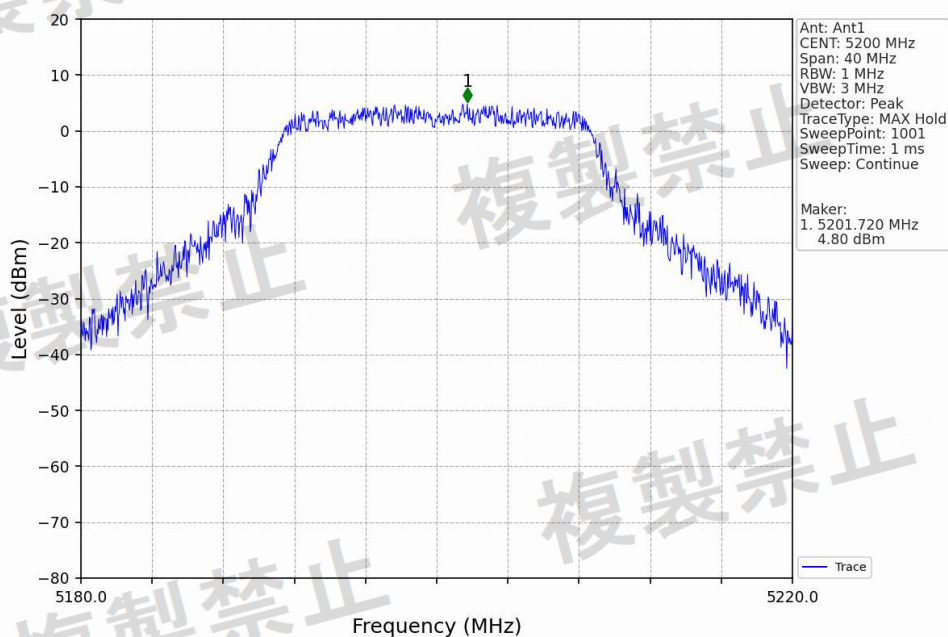


802.11ac(VHT20) LCH 5180MHz Ant1 NTV

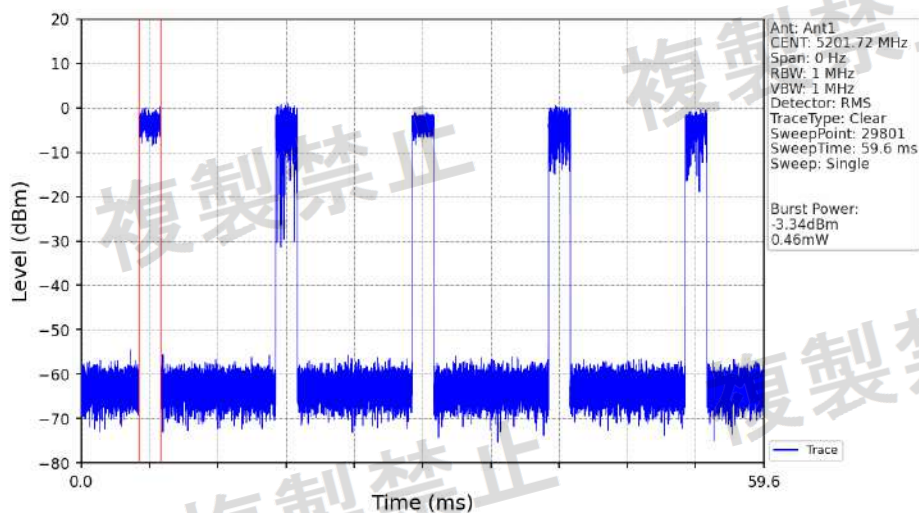


Burst No.	1	2	3	4
Length (ms)	1.902	1.902	1.900	1.902
Power(dBm)	-3.72	-3.68	-3.73	-3.73
Power(mW)	0.425	0.428	0.424	0.423
Remark	/	Max	/	/

802.11ac(VHT20) MCH 5200MHz Ant1 NTV

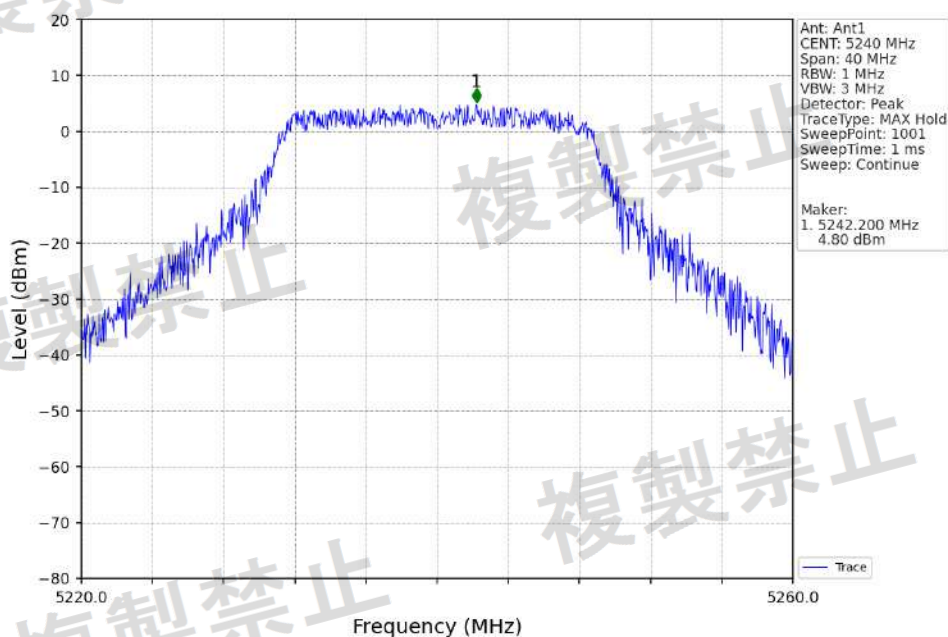


802.11ac(VHT20) MCH 5200MHz Ant1 NTV

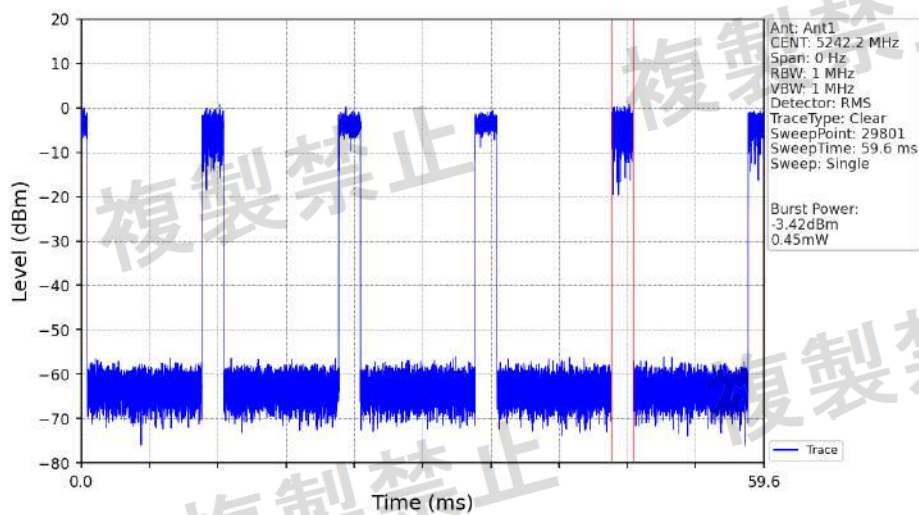


Burst No.	1	2	3	4	5
Length (ms)	1.902	1.900	1.902	1.900	1.902
Power(dBm)	-3.34	-3.42	-3.58	-3.56	-3.66
Power(mW)	0.463	0.455	0.438	0.441	0.431
Remark	Max	/	/	/	/

802.11ac(VHT20) HCH 5240MHz Ant1 NTV

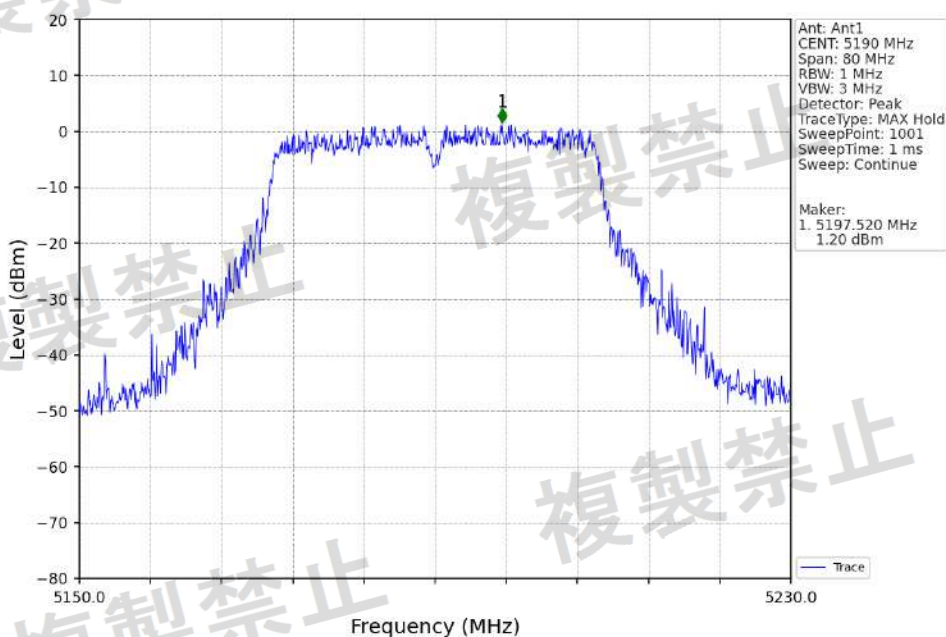


802.11ac(VHT20) HCH 5240MHz Ant1 NTV

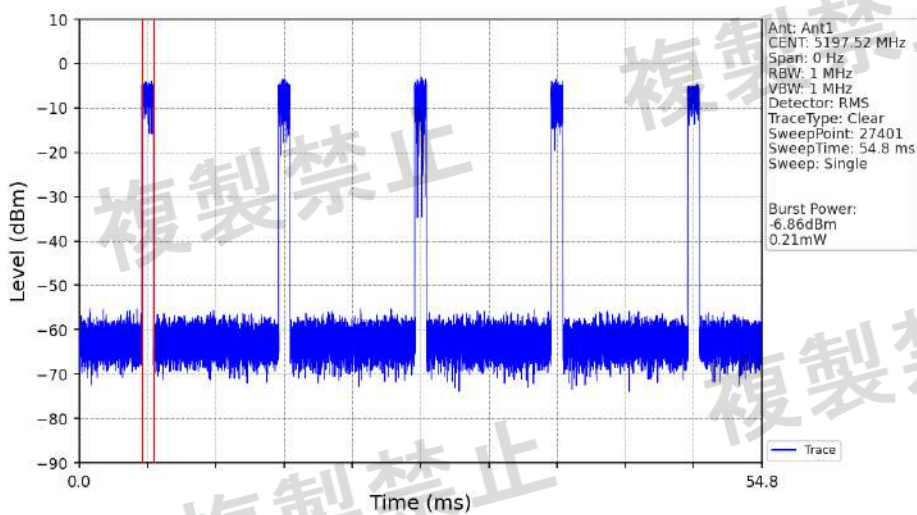


Burst No.	1	2	3	4
Length (ms)	1.902	1.900	1.902	1.900
Power(dBm)	-3.78	-3.60	-3.51	-3.42
Power(mW)	0.419	0.437	0.446	0.455
Remark	/	/	/	Max

802.11ac(VHT40) LCH 5190MHz Ant1 NTV

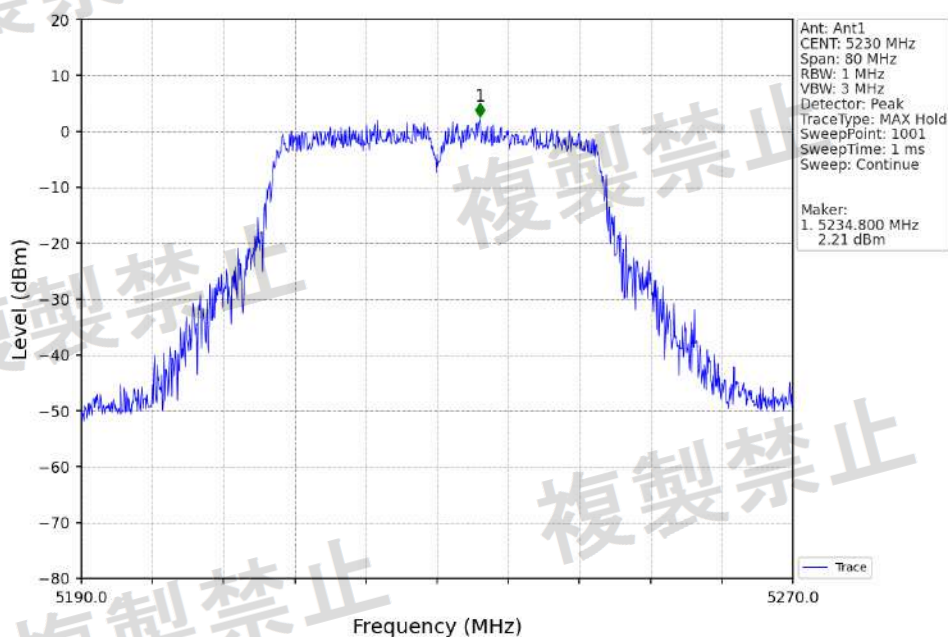


802.11ac(VHT40) LCH 5190MHz Ant1 NTV

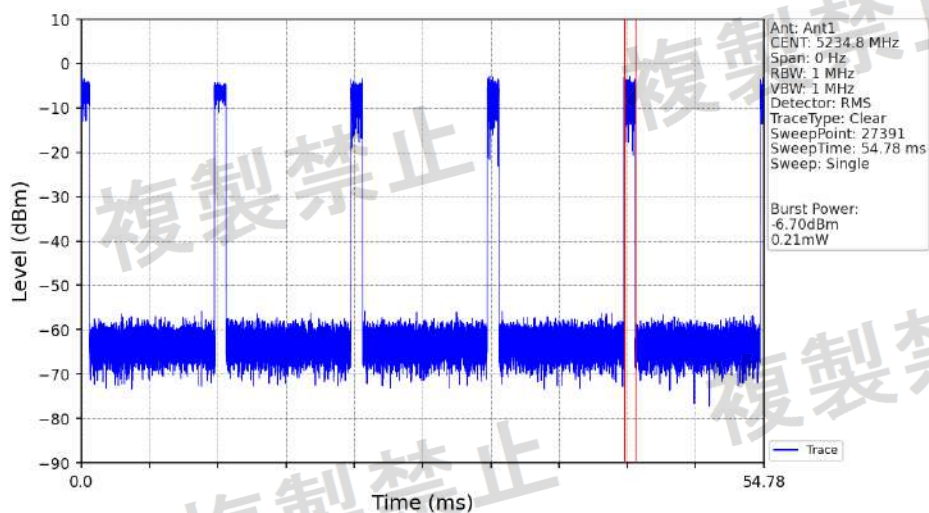


Burst No.	1	2	3	4	5
Length (ms)	0.938	0.938	0.936	0.936	0.938
Power(dBm)	-6.86	-6.93	-7.09	-7.16	-7.28
Power(mW)	0.206	0.203	0.196	0.192	0.187
Remark	Max	/	/	/	/

802.11ac(VHT40) HCH 5230MHz Ant1 NTV

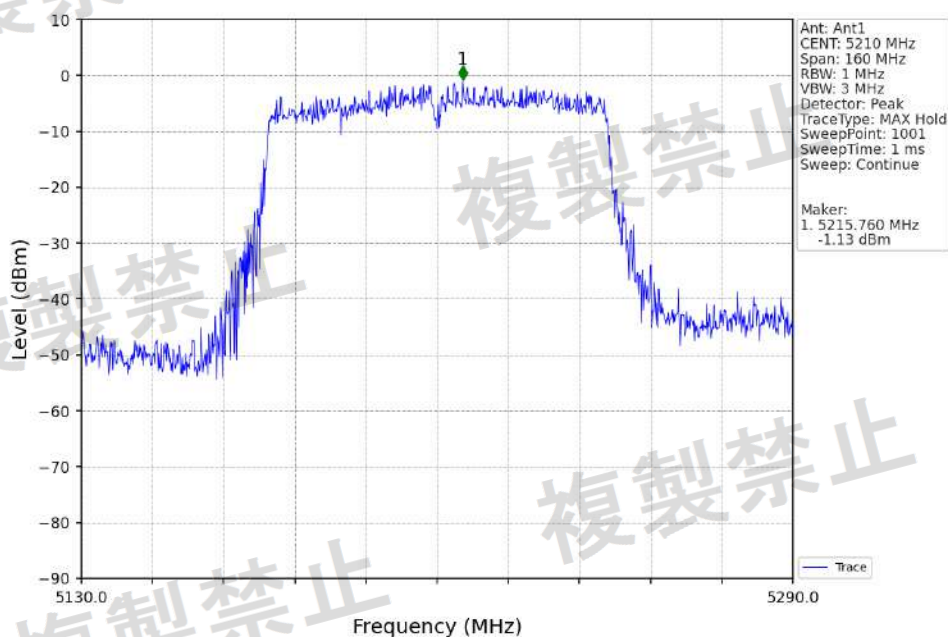


802.11ac(VHT40) HCH 5230MHz Ant1 NTV

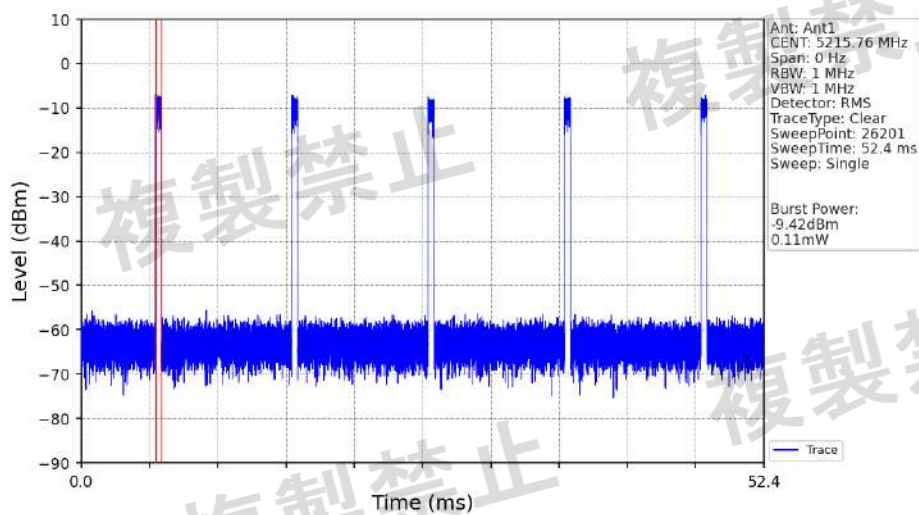


Burst No.	1	2	3	4
Length (ms)	0.938	0.938	0.938	0.936
Power(dBm)	-6.71	-6.78	-6.73	-6.70
Power(mW)	0.213	0.210	0.212	0.214
Remark	/	/	/	Max

802.11ac(VHT80) MCH 5210MHz Ant1 NTV

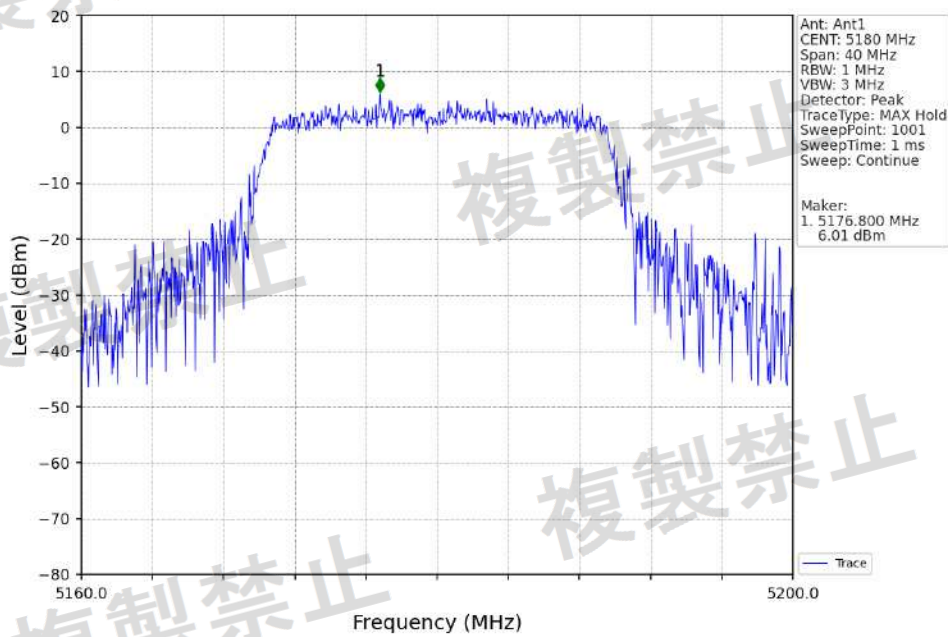


802.11ac(VHT80) MCH 5210MHz Ant1 NTV

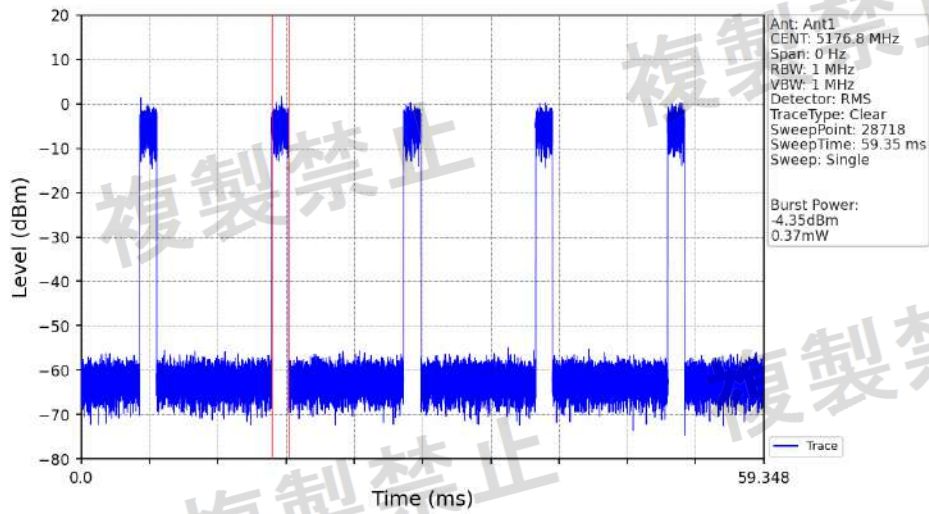


Burst No.	1	2	3	4	5
Length (ms)	0.458	0.458	0.458	0.458	0.458
Power(dBm)	-9.42	-9.59	-9.88	-9.85	-9.84
Power(mW)	0.114	0.110	0.103	0.103	0.104
Remark	Max	/	/	/	/

802.11ax(HEW20) LCH 5180MHz SU / Ant1 NTVN

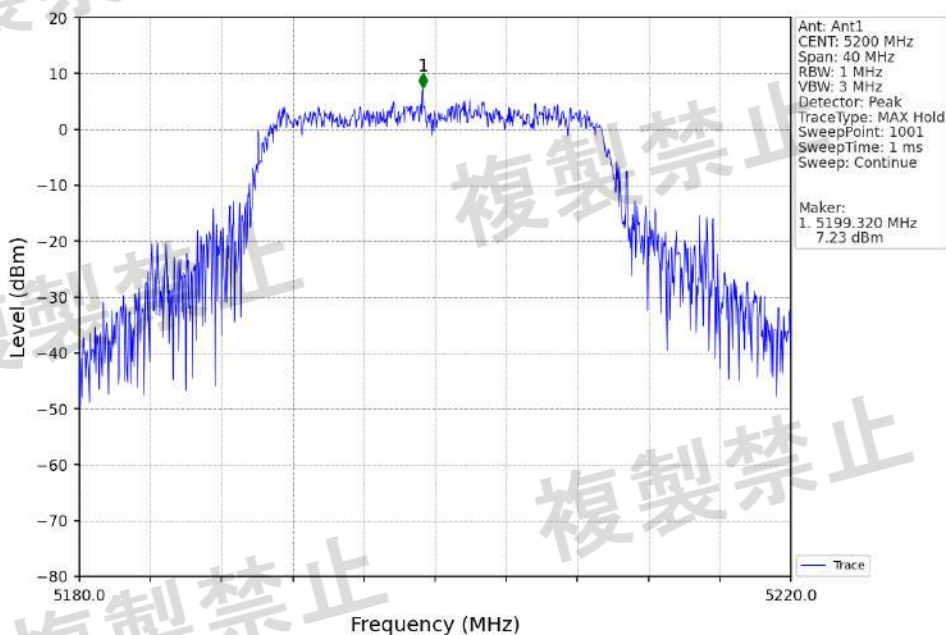


802.11ax(HEW20) LCH 5180MHz SU / Ant1 NTVN

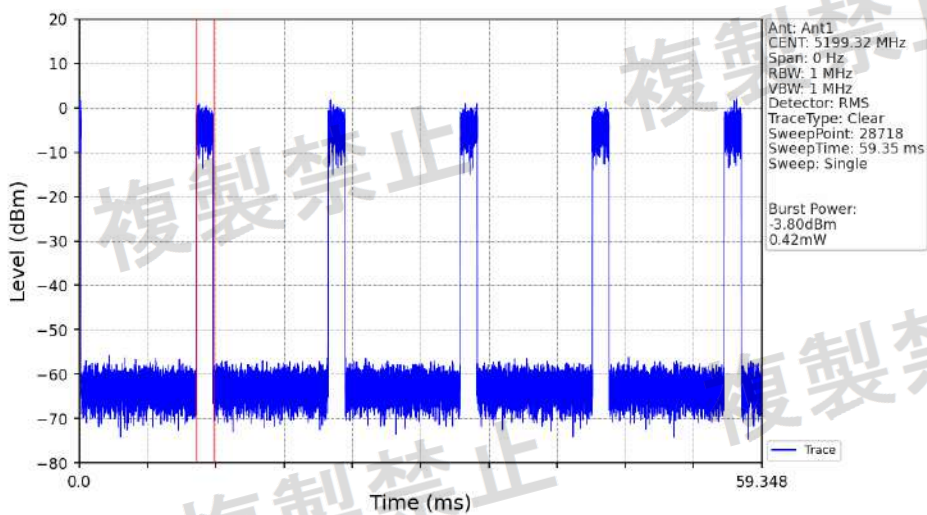


Burst No.	1	2	3	4	5
Length (ms)	1.461	1.463	1.463	1.463	1.461
Power(dBm)	-4.49	-4.35	-4.39	-4.46	-4.46
Power(mW)	0.356	0.367	0.364	0.358	0.358
Remark	/	Max	/	/	/

802.11ax(HEW20) MCH 5200MHz SU / Ant1 NTVN

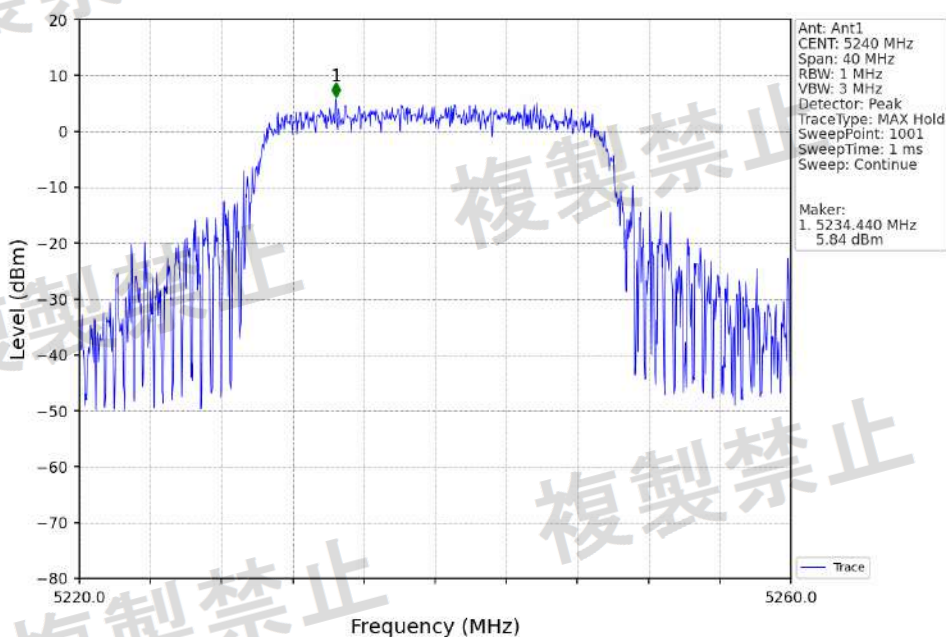


802.11ax(HEW20) MCH 5200MHz SU / Ant1 NTVN

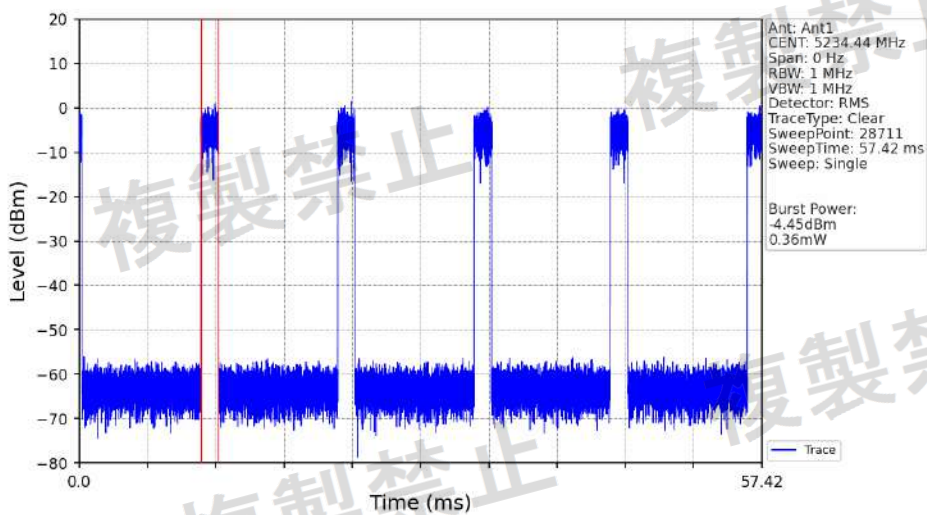


Burst No.	1	2	3	4	5
Length (ms)	1.463	1.463	1.465	1.465	1.463
Power(dBm)	-3.80	-3.94	-4.05	-4.09	-4.10
Power(mW)	0.417	0.404	0.394	0.390	0.389
Remark	Max	/	/	/	/

802.11ax(HEW20) HCH 5240MHz SU / Ant1 NTN

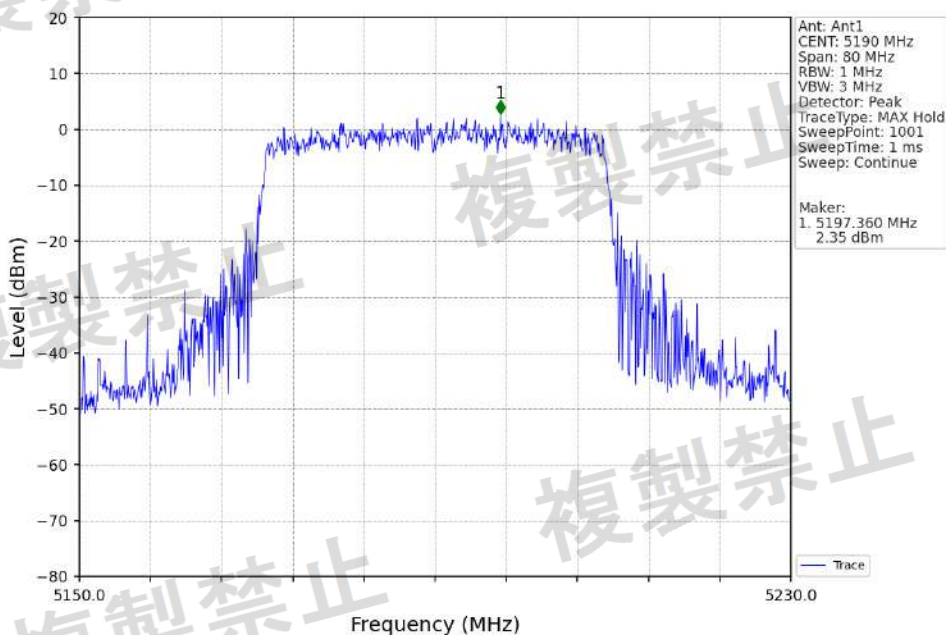


802.11ax(HEW20) HCH 5240MHz SU / Ant1 NTN

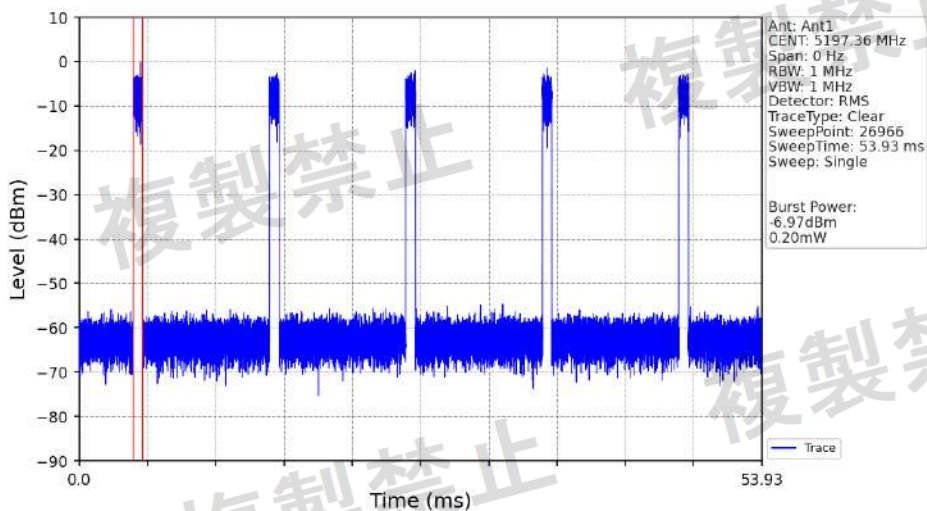


Burst No.	1	2	3	4
Length (ms)	1.462	1.462	1.462	1.464
Power(dBm)	-4.45	-4.63	-4.67	-4.63
Power(mW)	0.359	0.344	0.341	0.344
Remark	Max	/	/	/

802.11ax(HEW40) LCH 5190MHz SU / Ant1 NTVN

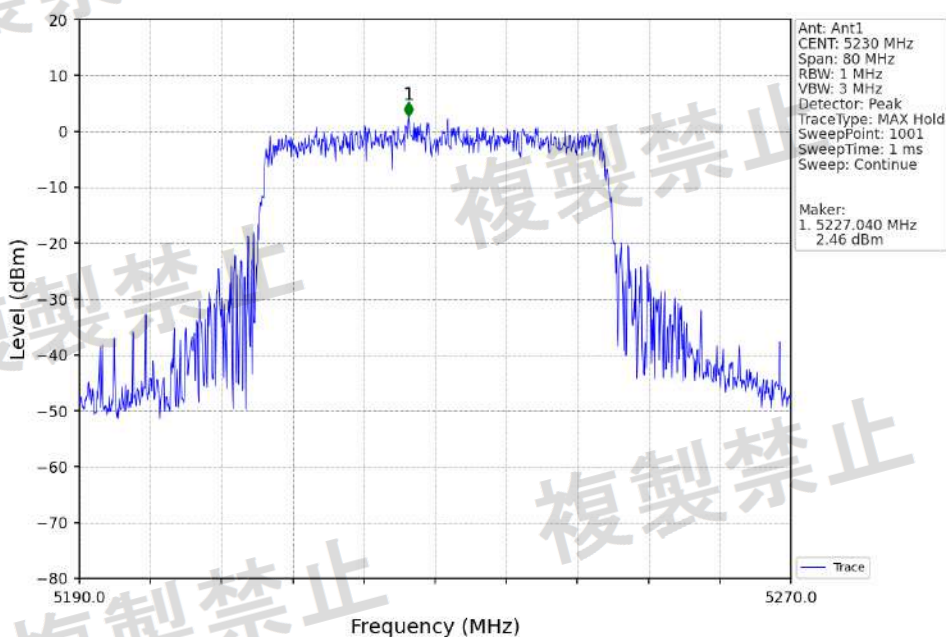


802.11ax(HEW40) LCH 5190MHz SU / Ant1 NTVN

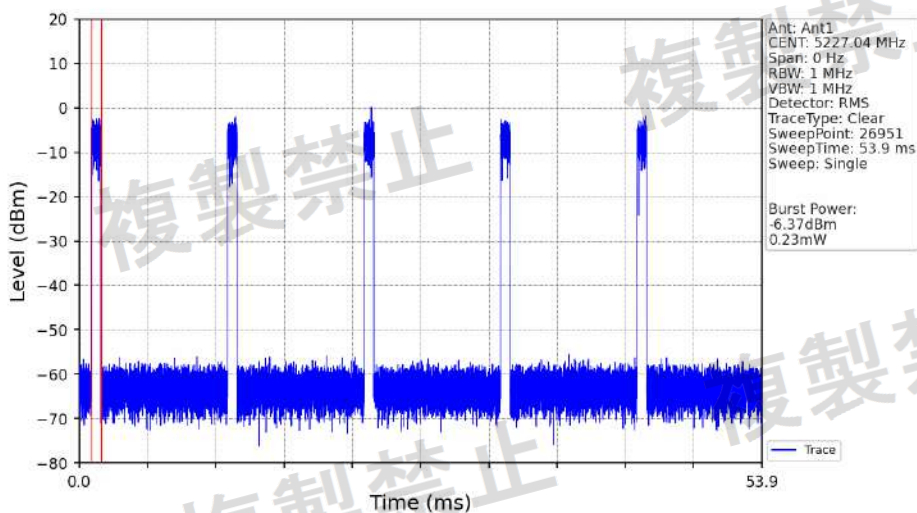


Burst No.	1	2	3	4	5
Length (ms)	0.764	0.762	0.764	0.764	0.764
Power(dBm)	-6.97	-7.04	-7.09	-7.18	-7.20
Power(mW)	0.201	0.198	0.196	0.191	0.191
Remark	Max	/	/	/	/

802.11ax(HEW40) HCH 5230MHz SU / Ant1 NTVN

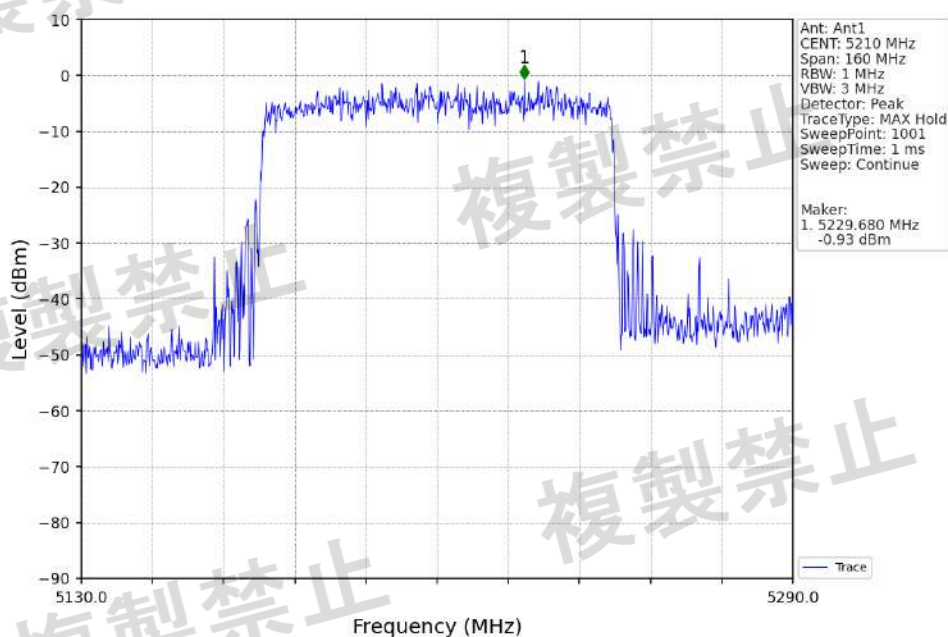


802.11ax(HEW40) HCH 5230MHz SU / Ant1 NTVN

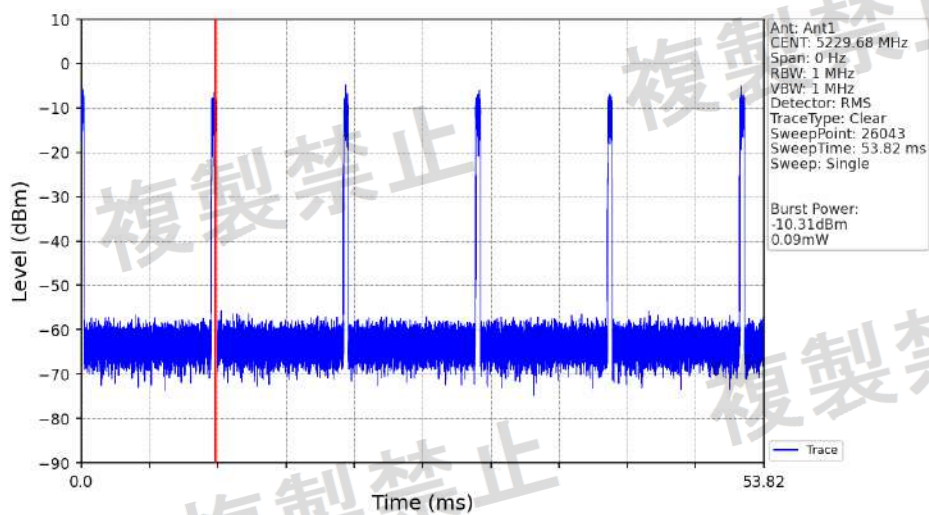


Burst No.	1	2	3	4	5
Length (ms)	0.764	0.764	0.762	0.764	0.762
Power(dBm)	-6.37	-6.74	-6.81	-6.88	-6.83
Power(mW)	0.230	0.212	0.209	0.205	0.208
Remark	Max	/	/	/	/

802.11ax(HEW80) MCH 5210MHz SU / Ant1 NTV



802.11ax(HEW80) MCH 5210MHz SU / Ant1 NTV



Burst No.	1	2	3	4	5	6
Length (ms)	0.180	0.180	0.362	0.364	0.364	0.362
Power(dBm)	-10.40	-10.31	-10.52	-10.51	-10.62	-10.59
Power(mW)	0.091	0.093	0.089	0.089	0.087	0.087
Remark	/	Max	/	/	/	/

4. Adjacent Channel Leakage Power

4.1 Test Result

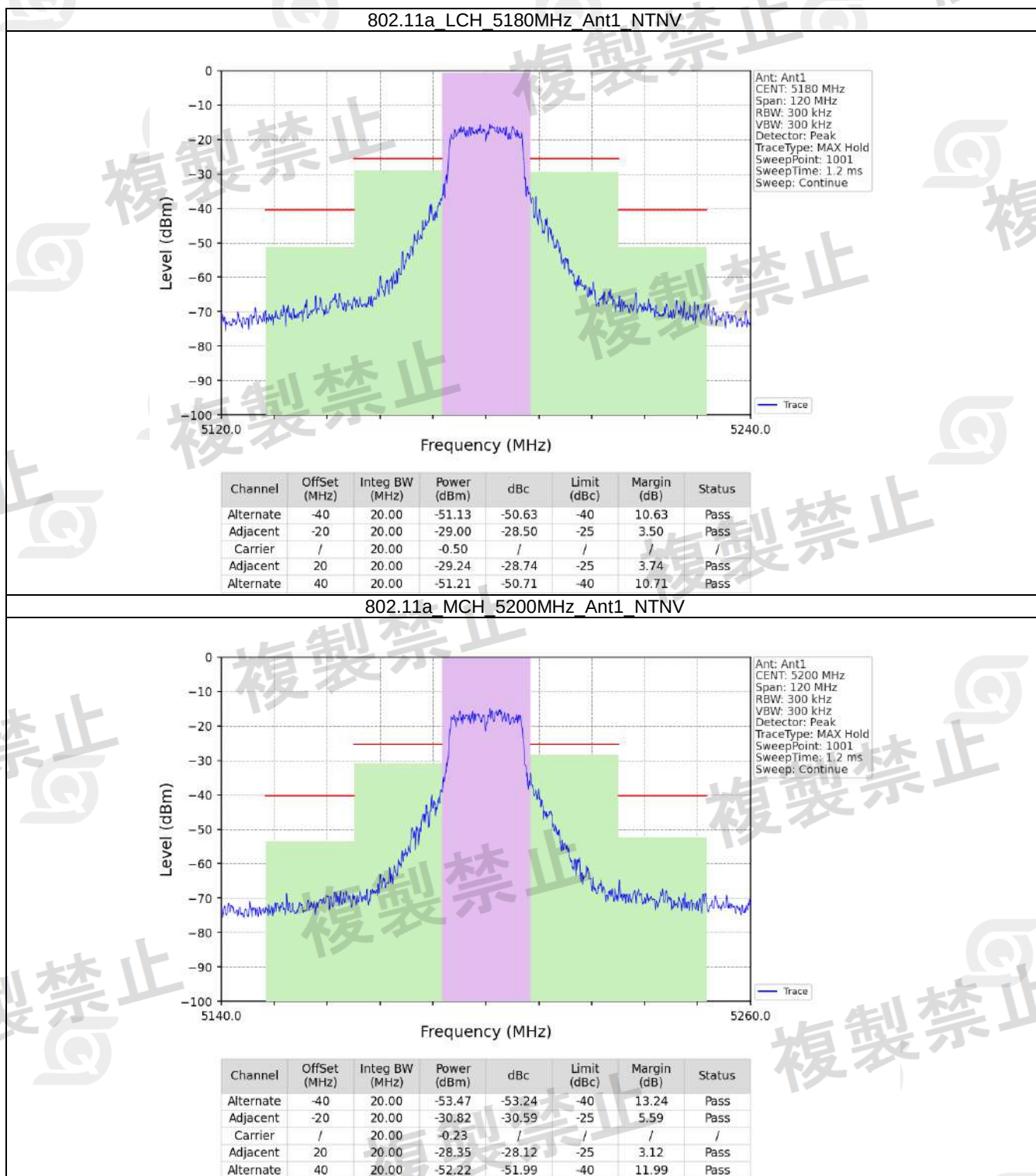
4.1.1 ACLR_NTNV

NTNV											
Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	Offset (MHz)	Integ BW (MHz)	Power (dBm)	Result (dBc)	Limit (dBc)	Verdict
802.11a	SISO	5180	/	/	1	-40	20	-51.13	-50.63	<=-40	Pass
						-20	20	-29.00	-28.50	<=-25	Pass
						0	20	-0.50	/	/	/
						20	20	-29.24	-28.74	<=-25	Pass
		5200	/	/	1	40	20	-51.21	-50.71	<=-40	Pass
						-40	20	-53.47	-53.24	<=-40	Pass
						-20	20	-30.82	-30.59	<=-25	Pass
						0	20	-0.23	/	/	/
		5240	/	/	1	20	20	-28.35	-28.12	<=-25	Pass
						40	20	-52.22	-51.99	<=-40	Pass
						-40	20	-49.92	-51.66	<=-40	Pass
						-20	20	-28.28	-30.02	<=-25	Pass
802.11n (HT20)	SISO	5180	/	/	1	0	20	1.74	/	/	/
						20	20	-27.22	-28.96	<=-25	Pass
						40	20	-48.96	-50.70	<=-40	Pass
						-40	20	-51.38	-51.02	<=-40	Pass
		5200	/	/	1	-20	20	-27.67	-27.31	<=-25	Pass
						0	20	-0.36	/	/	/
						20	20	-28.36	-28.00	<=-25	Pass
						40	20	-51.24	-50.88	<=-40	Pass
		5240	/	/	1	-40	20	-52.04	-51.74	<=-40	Pass
						-20	20	-27.62	-27.32	<=-25	Pass
						0	20	-0.30	/	/	/
						20	20	-27.15	-26.85	<=-25	Pass
802.11n (HT40)	SISO	5190	/	/	1	40	20	-51.06	-50.76	<=-40	Pass
						-40	20	-50.33	-52.04	<=-40	Pass
						-20	20	-26.71	-28.42	<=-25	Pass
						0	20	1.71	/	/	/
		5230	/	/	1	20	20	-26.02	-27.73	<=-25	Pass
						40	20	-49.43	-51.14	<=-40	Pass
						-80	40	-52.98	-51.92	<=-40	Pass
						-40	40	-34.92	-33.86	<=-25	Pass
		5200	/	/	1	80	40	-52.30	-51.24	<=-40	Pass
						-80	40	-53.27	-53.61	<=-40	Pass
						-40	40	-33.44	-33.78	<=-25	Pass
						0	40	0.34	/	/	/
802.11ac (VHT20)	SISO	5180	/	/	1	40	40	-30.90	-31.24	<=-25	Pass
						80	40	-51.26	-51.60	<=-40	Pass
						-40	20	-53.36	-52.55	<=-40	Pass
						-20	20	-28.04	-27.23	<=-25	Pass
		5200	/	/	1	0	20	-0.81	/	/	/
						20	20	-27.94	-27.13	<=-25	Pass
						40	20	-53.73	-52.92	<=-40	Pass
						-40	20	-53.82	-53.50	<=-40	Pass
		5240	/	/	1	-20	20	-28.12	-27.80	<=-25	Pass
						0	20	-0.32	/	/	/
						20	20	-27.98	-27.66	<=-25	Pass
						40	20	-52.10	-51.78	<=-40	Pass
					-40	20	-50.19	-51.84	<=-40	Pass	
					-20	20	-26.46	-28.11	<=-25	Pass	
					0	20	1.65	/	/	/	
					20	20	-25.48	-27.13	<=-25	Pass	

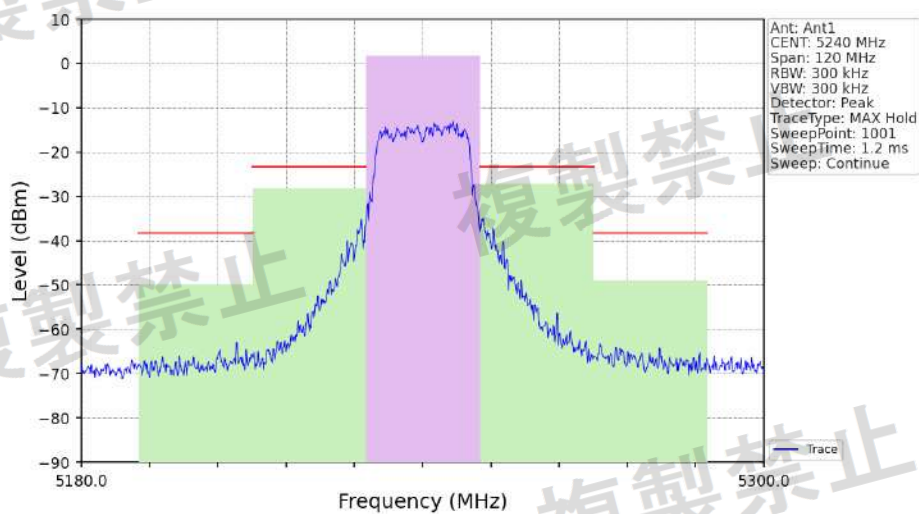
						40	20	-49.00	-50.65	<=-40	Pass
802.11ac (VHT40)	SISO	5190	/	/	1	-80	40	-52.85	-52.25	<=-40	Pass
						-40	40	-34.09	-33.49	<=-25	Pass
						0	40	-0.60	/	/	/
						40	40	-33.03	-32.43	<=-25	Pass
						80	40	-51.88	-51.28	<=-40	Pass
		5230	/	/	1	-80	40	-53.91	-54.10	<=-40	Pass
						-40	40	-34.04	-34.23	<=-25	Pass
						0	40	0.19	/	/	/
						40	40	-31.75	-31.94	<=-25	Pass
						80	40	-52.11	-52.30	<=-40	Pass
802.11ac (VHT80)	SISO	5210	/	/	1	-80	80	-38.41	-37.64	<=-25	Pass
						0	80	-0.77	/	/	/
						80	80	-35.18	-34.41	<=-25	Pass
802.11ax (HEW20)	SISO	5180	SU	/	1	-40	20	-51.68	-51.63	<=-40	Pass
						-20	20	-28.21	-28.16	<=-25	Pass
						0	20	-0.05	/	/	/
						20	20	-29.56	-29.51	<=-25	Pass
						40	20	-51.66	-51.61	<=-40	Pass
		5200	SU	/	1	-40	20	-51.82	-51.71	<=-40	Pass
						-20	20	-29.27	-29.16	<=-25	Pass
						0	20	-0.11	/	/	/
						20	20	-29.87	-29.76	<=-25	Pass
						40	20	-50.60	-50.49	<=-40	Pass
		5240	SU	/	1	-40	20	-50.61	-52.63	<=-40	Pass
						-20	20	-26.69	-28.71	<=-25	Pass
						0	20	2.02	/	/	/
						20	20	-25.75	-27.77	<=-25	Pass
802.11ax (HEW40)	SISO	5190	SU	/	1	40	20	-50.01	-52.03	<=-40	Pass
						-80	40	-53.15	-52.38	<=-40	Pass
						-40	40	-35.62	-34.85	<=-25	Pass
						0	40	-0.77	/	/	/
						40	40	-35.92	-35.15	<=-25	Pass
		5230	SU	/	1	80	40	-52.87	-52.10	<=-40	Pass
						-80	40	-53.73	-54.79	<=-40	Pass
						-40	40	-33.72	-34.78	<=-25	Pass
						0	40	1.06	/	/	/
						40	40	-33.04	-34.10	<=-25	Pass
802.11ax (HEW80)	SISO	5210	SU	/	1	80	40	-52.47	-53.53	<=-40	Pass
						-80	80	-39.48	-38.75	<=-25	Pass
						0	80	-0.73	/	/	/
						80	80	-37.27	-36.54	<=-25	Pass

4.2 Test Graph

4.2.1 ACLR_NTNV

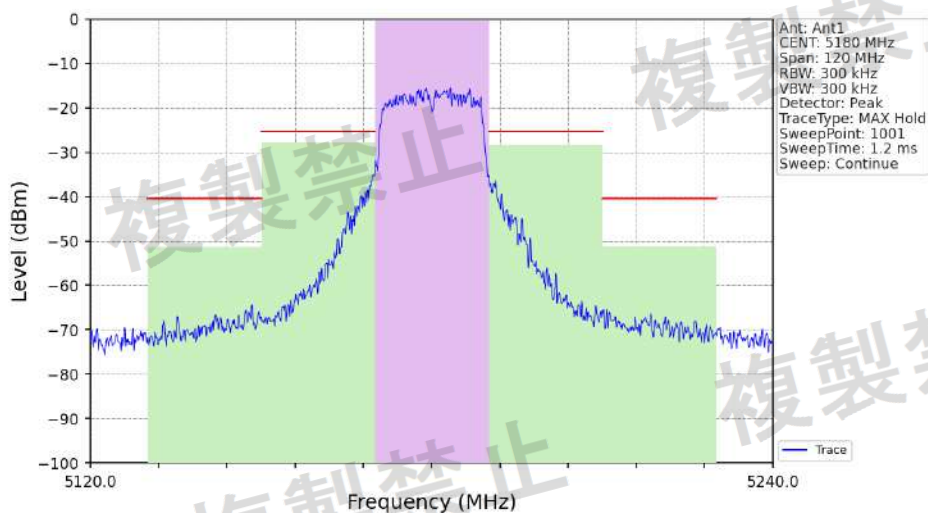


802.11a HCH 5240MHz Ant1 NTVN



Channel	Offset (MHz)	Integ BW (MHz)	Power (dBm)	dBc	Limit (dBc)	Margin (dB)	Status
Alternate	-40	20.00	-49.92	-51.66	-40	11.66	Pass
Adjacent	-20	20.00	-28.28	-30.02	-25	5.02	Pass
Carrier	/	20.00	1.74	/	/	/	/
Adjacent	20	20.00	-27.22	-28.96	-25	3.96	Pass
Alternate	40	20.00	-48.96	-50.70	-40	10.70	Pass

802.11n(HT20) LCH 5180MHz Ant1 NTVN



Channel	Offset (MHz)	Integ BW (MHz)	Power (dBm)	dBc	Limit (dBc)	Margin (dB)	Status
Alternate	-40	20.00	-51.38	-51.02	-40	11.02	Pass
Adjacent	-20	20.00	-27.67	-27.31	-25	2.31	Pass
Carrier	/	20.00	-0.36	/	/	/	/
Adjacent	20	20.00	-28.36	-28.00	-25	3.00	Pass
Alternate	40	20.00	-51.24	-50.88	-40	10.88	Pass