

RF Test Report

For

Applicant name: Shanghai Huace Navigation Technology Ltd.
Address: 577 Songying Road, Qingpu District, 201706 Shanghai, China
EUT name: Surveying System
Brand name: N/A
Model number: TL4
Series model number: N/A

Issued By

Company name: BTF Testing Lab (Shenzhen) Co., Ltd.
Address: Plant 101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, Guangdong, China

Report number: BTF260525R00102
Test standards: Article 2-1, Item 19-3
Test conclusion: Pass

Date of sample receipt: 2026-03-02
Test date: 2026-03-03 to 2026-04-10
Date of issue: 2026-06-04

Prepared by:

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Chris Liu / Project engineer

Approved by:



Ryan.CJ / EMC Manager

Note: All the test results in this report only related to the testing samples. Which can be duplicated completely for the legal use with approval of applicant; it shall not be reproduced except in full without the written approval of BTF Testing Lab (Shenzhen) Co., Ltd., All the objections should be raised within thirty days from the date of issue. To validate the report, you can contact us.

Revision History		
Version	Issue Date	Revisions Content
R_V0	2026-06-04	This report is based on the report No. BTF260310R00901. The applicant, manufacturer, factory and model name information have been changed. Additionally, the appearance color has been altered, but all other details remain the same.
<i>Note:</i> Once the revision has been made, then previous versions reports are invalid.		

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1 Introduction

1.1 Laboratory Location

Test location:	BTF Testing Lab (Shenzhen) Co., Ltd.
Address:	Plant 101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, Guangdong, China
Phone number:	+86-0755-23146130
Fax number:	+86-0755-23146130

1.2 Identification of the Responsible Testing Location

Test Location:	BTF Testing Lab (Shenzhen) Co., Ltd.
Address:	Plant 101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, Guangdong, China
Description:	All measurement facilities used to collect the measurement data are located at F101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, China

1.3 Laboratory Facility

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

- **FCC - Designation No.: CN1409**
BTF Testing Lab (Shenzhen) Co., Ltd. has been accredited as a testing laboratory by FCC (Federal Communications Commission). The test firm Registration No. is 695374.
- **CNAS - Registration No.: CNAS L17568**
BTF Testing Lab (Shenzhen) Co., Ltd. is accredited to ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration laboratories for the competence of testing. The Registration No. is CNAS L17568.
- **A2LA - Registration No.: 6660.01**
BTF Testing Lab (Shenzhen) Co., Ltd. is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories.
- **VCCI - Registration No.: C-20122, G-20157, R-20166**
EMC LAB: Certificated by VCCI, Japan
Registration No.: C-20122, G-20157, R-20166
Date of Registration: June 20, 2025
This Certificate is valid until June 19, 2028

1.4 Announcement

- (1) The test report reference to the report template version v0.
- (2) The test report is invalid if not marked with the signatures of the persons responsible for preparing, reviewing and approving the test report.
- (3) The test report is invalid if there is any evidence and/or falsification.
- (4) This document may not be altered or revised in any way unless done so by BTF and all revisions are duly noted in the revisions section.
- (5) Content of the test report, in part or in full, cannot be used for publicity and/or promotional purposes without prior written approval from the laboratory.
- (6) The laboratory is only responsible for the data released by the laboratory, except for the part provided by the applicant.
- (7) All entrusted information in this report is provided by the client and has been confirmed through consultation with the client; The testing items for this report have been discussed and confirmed with the client, and our company is only responsible for the content reflected in the report.

2 Product Information

2.1 Application Information

Company name:	Shanghai Huace Navigation Technology Ltd.
Address:	577 Songying Road, Qingpu District, 201706 Shanghai, China

2.2 Manufacturer Information

Company name:	Shanghai Huace Navigation Technology Ltd.
Address:	577 Songying Road, Qingpu District, 201706 Shanghai, China

2.3 Factory Information

Company name:	Shanghai Huace Navigation Technology Ltd.
Address:	577 Songying Road, Qingpu District, 201706 Shanghai, China

2.4 General Description of Equipment under Test (EUT)

EUT name:	Surveying System
Under test model name:	TL4
Series model name:	N/A
Description of model name differentiation:	N/A
Ratings:	Input: 17 - 30V 5A

2.5 Technical Information

Operation Frequency:	W52: 802.11ac(VHT20): 5180MHz to 5240MHz; 802.11ac(VHT80): 5210MHz;
Channel numbers:	W52: 802.11ac(VHT20): 4; 802.11ac(VHT80): 1;
Channel separation:	802.11ac(VHT20): 20MHz; 802.11ac(VHT80): 80MHz;
Modulation technology:	802.11ac: OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM)
Max. E.I.R.P Power:	0.66mW/MHz
Antenna type:	Internal
Antenna gain:	3.58dBi

3 Summary of Test Results

3.1 Test Standards

The tests were performed according to following standards:
Article 2-1, Item 19-3 : 5G WIFI

3.2 Uncertainty of Test

Measurement	Value
Radio Frequency	$\pm 1.2 \times 10^{-9}$
Occupied Channel Bandwidth	$\pm 5 \%$
RF output power, conducted	$\pm 1.5 \text{ dB}$
Unwanted Emissions, conducted	$\pm 3.0 \text{ dB}$
RF output power, conducted	$\pm 1.5 \text{ dB}$
Time	$\pm 5 \%$
The following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.	

3.3 Summary of Test Result

Item	Standard	Requirement	Result
Tolerance of Frequency	Article 2-1, Item 19-3	Article 2-1, Item 19-3	Pass
Occupied Bandwidth (99%)	Article 2-1, Item 19-3	Article 2-1, Item 19-3	Pass
Antenna Power and Tolerance	Article 2-1, Item 19-3	Article 2-1, Item 19-3	Pass
E.I.R.P	Article 2-1, Item 19-3	Article 2-1, Item 19-3	Pass
Out of Band Emission	Article 2-1, Item 19-3	Article 2-1, Item 19-3	Pass
Adjacent Channel Emitted Power	Article 2-1, Item 19-3	Article 2-1, Item 19-3	Pass
Spurious Emission Intensity	Article 2-1, Item 19-3	Article 2-1, Item 19-3	Pass
Secondary Radiated Emissions	Article 2-1, Item 19-3	Article 2-1, Item 19-3	Pass
Carrier Sensing 1	Article 2-1, Item 19-3	Article 2-1, Item 19-3	Pass
Interference Prevention Function	Article 2-1, Item 19-3	Article 2-1, Item 19-3	Pass
Transmission Burst Length	Article 2-1, Item 19-3	Article 2-1, Item 19-3	Pass
Remark: 1. Pass: Meet the requirements. 2. N/A: not applicable.			

3.4 Additions to, deviations, or exclusions from the method

None

4 Test Configuration

4.1 Test Equipment List

RF Conducted Test					
Test Equipment	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
Test Software	TST Pass	/	Version: 2.0	/	/
Cell Site Test Set	HP	8921A	US35010158	2025-10-17	2026-10-16
Spectrum Analyzer	Keysight	N9020A	MY50410020	2025-10-17	2026-10-16
ESG Vector Signal Generator	Agilent	E4438C	MY45094854	2025-10-17	2026-10-16
MXG Vector Signal Generator	Agilent	N5182A	MY46240163	2025-10-17	2026-10-16
Wideband Radio Communication Tester	Rohde&Schwarz	CMW500	161997	2025-10-17	2026-10-16
Programmable Constant Temperature And Humidity Test Chamber	ZZCKONG	ZZ-K02A	20210928007	2025-10-17	2026-10-16
DC Power Supply	Tongmen	etm-6050c	20211026123	2025-10-17	2026-10-16
RF Control Unit	Techy	TR1029-1	/	2025-10-17	2026-10-16
RF Sensor Unit	Techy	TR1029-2	/	2025-10-17	2026-10-16
RF shielding box	Yinuoxin Electronics	50*50*50 cm	/	2025-05-26	2026-05-25

4.2 Test Auxiliary Equipment

Description	Manufacturer	Model	Serial No.	Length	Description
Auto Range DC Power Supply	ITECH	IT6721	/	/	/

4.3 Environment Condition

ENV	Temperature (°C)	Voltage (VDC)
NTLV	25	21.6
NTNV	25	24
NTHV	25	26.4

Voltage fluctuation test:

The RF unit is supplied DC 3.3V. The fluctuation of input voltage to the circuit of RF unit of test equipment is under $\pm 1\%$, when input voltage DC 24V is fluctuated $\pm 10\%$, so all measurement has been conducted by only rated voltage.

DC Input	RF_IC Input	Rate of fluctuation(%)
24	3.3V	0.0
26.4	3.3V	0.0
21.6	3.3V	0.0

4.4 Test Modes

No.	Test Modes
TM1	802.11ac(VHT20) mode
TM2	802.11ac(VHT80) mode
TM3	Receiving mode (20MHz)
TM4	Receiving mode (80MHz)
TM5	Normal mode

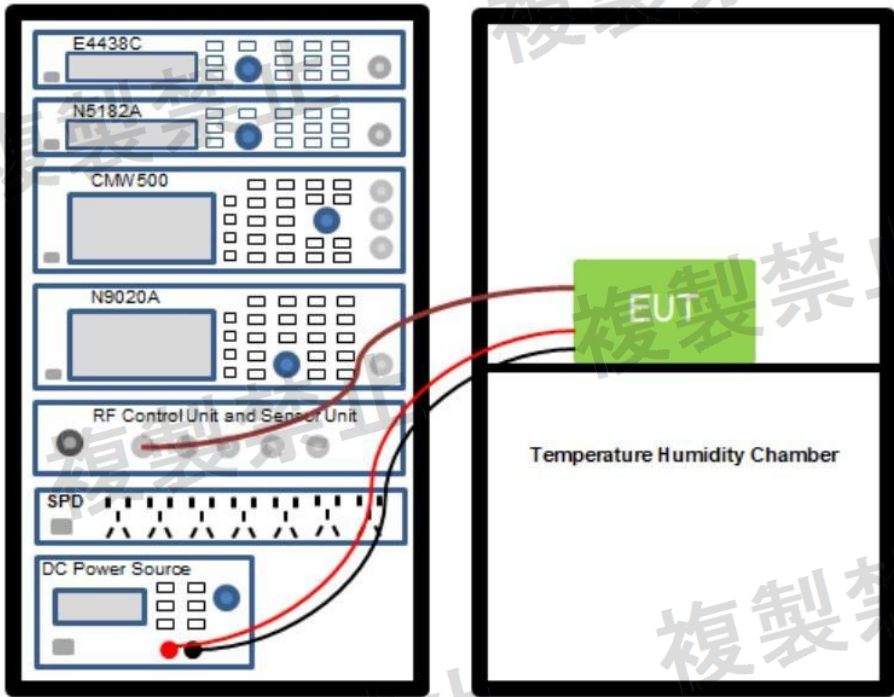
4.5 Test Channel of EUT

Operation Band: 5150~5250MHz

Bandwidth (MHz)	Lowest Channel (LCH) (MHz)	Middle Channel (MCH) (MHz)	Highest Channel (HCH) (MHz)
20	5180	5200	5240
80	/	5210	/

5 Radio Spectrum Matter Test Results (RF)

5.1 Tolerance of Frequency

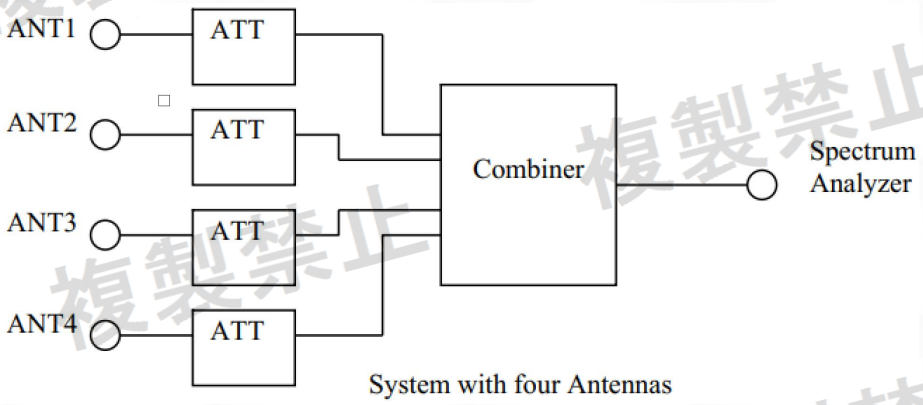
Test Requirement:	Article 2-1, Item 19-3	
Test Method:	Center frequency:	Test frequency
	Span:	1 MHz
	RBW:	10 kHz
	VBW:	10 kHz
	Sweep data points:	1001 or greater
	Sweep time:	Auto
	Detector mode:	Positive peak
	Indication mode:	Max hold
Test Limit:	± 20ppm	
Procedure:	(1) Find the peak carrier signal and measure its frequency (2) For multiple antenna systems each antenna shall be measured (3) For an EUT with multiple antennas it is permissible to test a single antenna only, provided all the antenna measurement values are expected to be same for either of the following reasons: a) The frequency of all antenna transmissions are phase-synchronized to a common (fundamental) oscillator b) The antenna transmissions share a common clock signal	
Test Setup:		
Operating Environment:		
Temperature:	22.8 °C	
Humidity:	47.4 %	

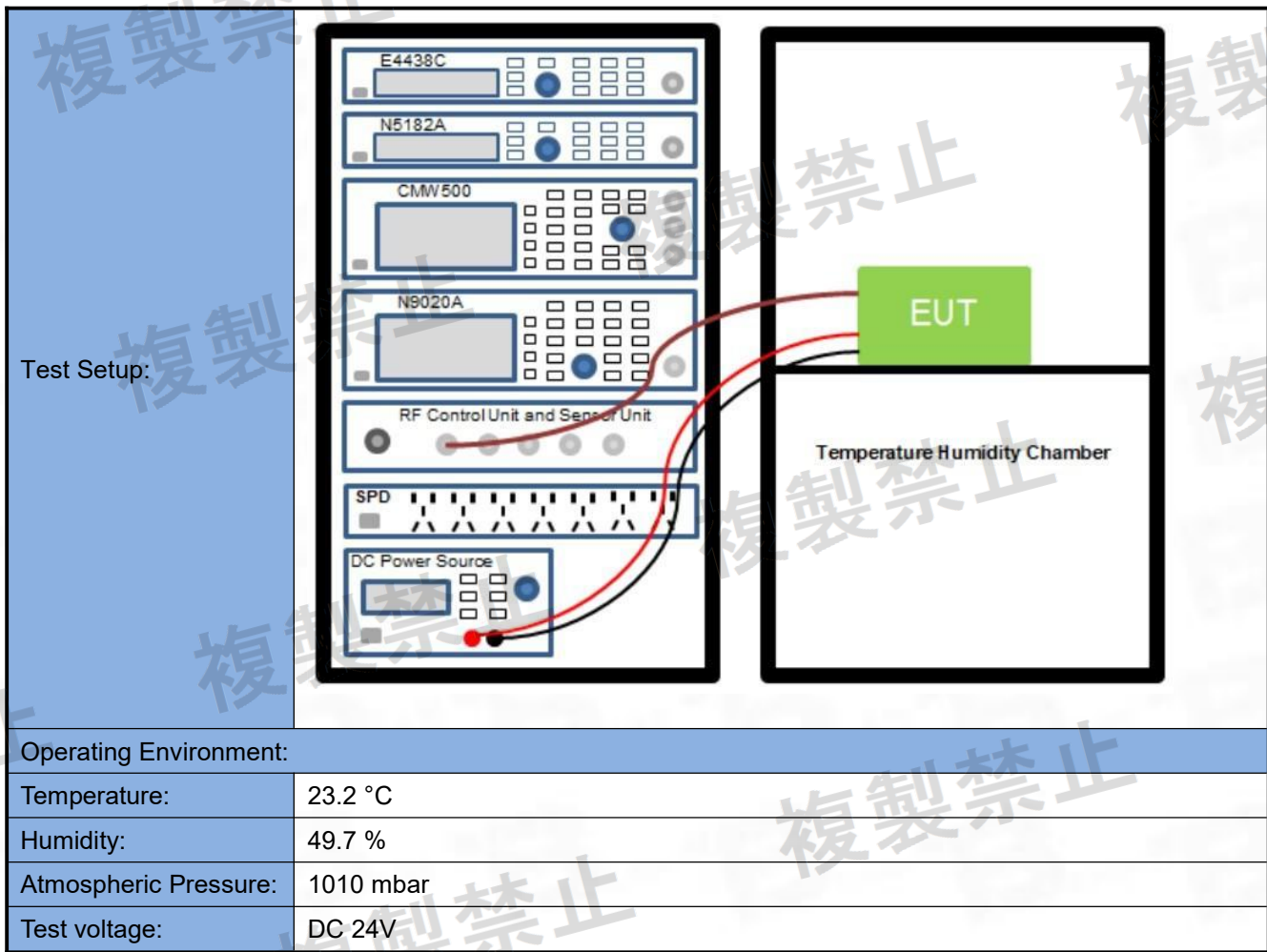
Atmospheric Pressure:	1010 mbar
Test voltage:	DC 24V

5.1.1 Test Data

Please Refer to Appendix for Details.

5.2 Occupied Bandwidth (99%)

Test Requirement:	Article 2-1, Item 19-3	
Test Method:	[Occupied Bandwidth (99%)]	
	Center Frequency:	Test frequency
	Span:	2 – 3.5 times the technical standard
	RBW:	Within 3% of the technical standard
	VBW:	Same as RBW
	Sweep time:	Auto
	Sweep data points:	1001 or greater
	Detector mode:	Positive peak
	Indication mode:	Max hold
	BW setting:	99%
Test Limit:	DSSS: 18MHz OFDM:20/40/80/160MHz	
Procedure:	(1) Measure the signal bandwidth using a spectrum analyzer (2) For multiple antenna systems: a) Each antenna shall be individually measured b) If the measured occupied bandwidth for any antenna exceeds [(Occupied Bandwidth Limit) – 100kHz] then, in addition, the occupied bandwidth shall be measured with all antennas combined – see diagram below:	
	 System with four Antennas	

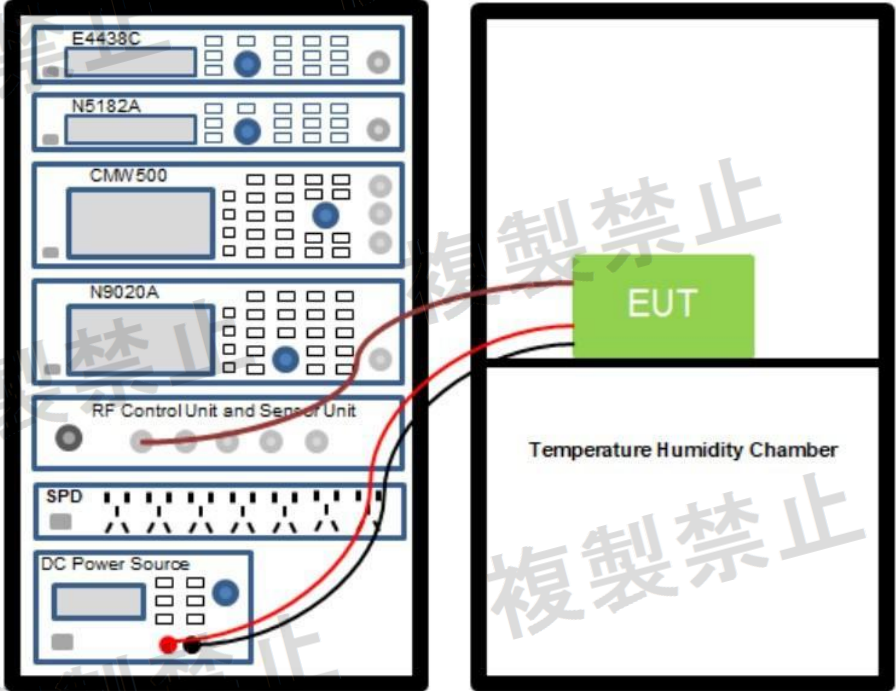


5.2.1 Test Data

Please Refer to Appendix for Details.

5.3 Antenna Power and Tolerance

Test Requirement:	Article 2-1, Item 19-3
Test Method:	[Setting 1] – Search for peak power frequency
	Center Frequency: Test frequency
	Span: Approximately twice the occupied bandwidth
	RBW: 1MHz
	VBW: Approximately three times the RBW
	Sweep time: Auto
	Sweep data points: 1001 or greater
	Detector mode: Positive peak
	Indication mode: Max hold
	[Setting 2] – Measurement of average antenna power for FHSS, DSSS, OFDM
	Frequency: Frequency of peak power found using [Setting 1]
	Span: 0 Hz
	RBW: 3 MHz (FHSS in 7.4.1.1) 1MHz (DSSS, OFDM, FHSS in 7.4.1.2)
	Detector mode: Sample
	Sweep: Minimum time required to make an accurate measurement.
	For burst type (intermittent) transmission sweep time shall be greater than one burst interval
	Sweep data points: 1001 or greater
	[Setting 3] – Measurement of average antenna power other than for FHSS, DSSS, OFDM
	Frequency: Frequency of peak power found using [Setting 1]
	Span: 0 Hz
	RBW: Bandwidth sufficient to cover that occupied by the carrier
	VBW: Bandwidth sufficient to cover that occupied by the carrier
	Detector mode: Sample
	Sweep: Minimum time required to make an accurate measurement.
	For burst type (intermittent) transmission sweep time shall be greater than one burst interval
	Sweep data points: 1001 or greater
Test Limit:	10 mW/MHz or less for DSSS and OFDM 20MHz Bandwidth; 5mW/MHz or less for OFDM 40MHz Bandwidth; 2.5mW/MHz or less for OFDM 80MHz Bandwidth; 1.25mW/MHz or less for OFDM 80+80MHz or 160MHz Bandwidth; Antenna power tolerance: -80% ~ +20% for 5150~5250MHz and 5250~5350MHz; -50% ~ +50% for 5470~5725MHz;

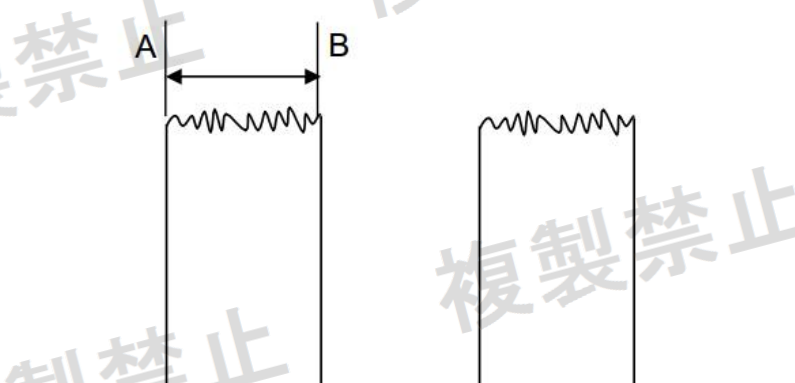
Procedure:	(1) After configuring the spectrum analyzer to [Setting 1], find the frequency of maximum transmitted power (2) After configuring the spectrum analyzer to [Setting 2], measure the Average Burst Power of the frequency found in (1) Antenna Power (W/MHz) = Average Burst Power (3) If the EUT has an 80+80MHz bandwidth system then antenna power shall be measured separately, on each channel, but with both 80MHz transmitters simultaneously enabled.
Test Setup:	
Operating Environment:	
Temperature:	25 °C
Humidity:	49.8 %
Atmospheric Pressure:	1010 mbar
Test voltage:	DC 24V

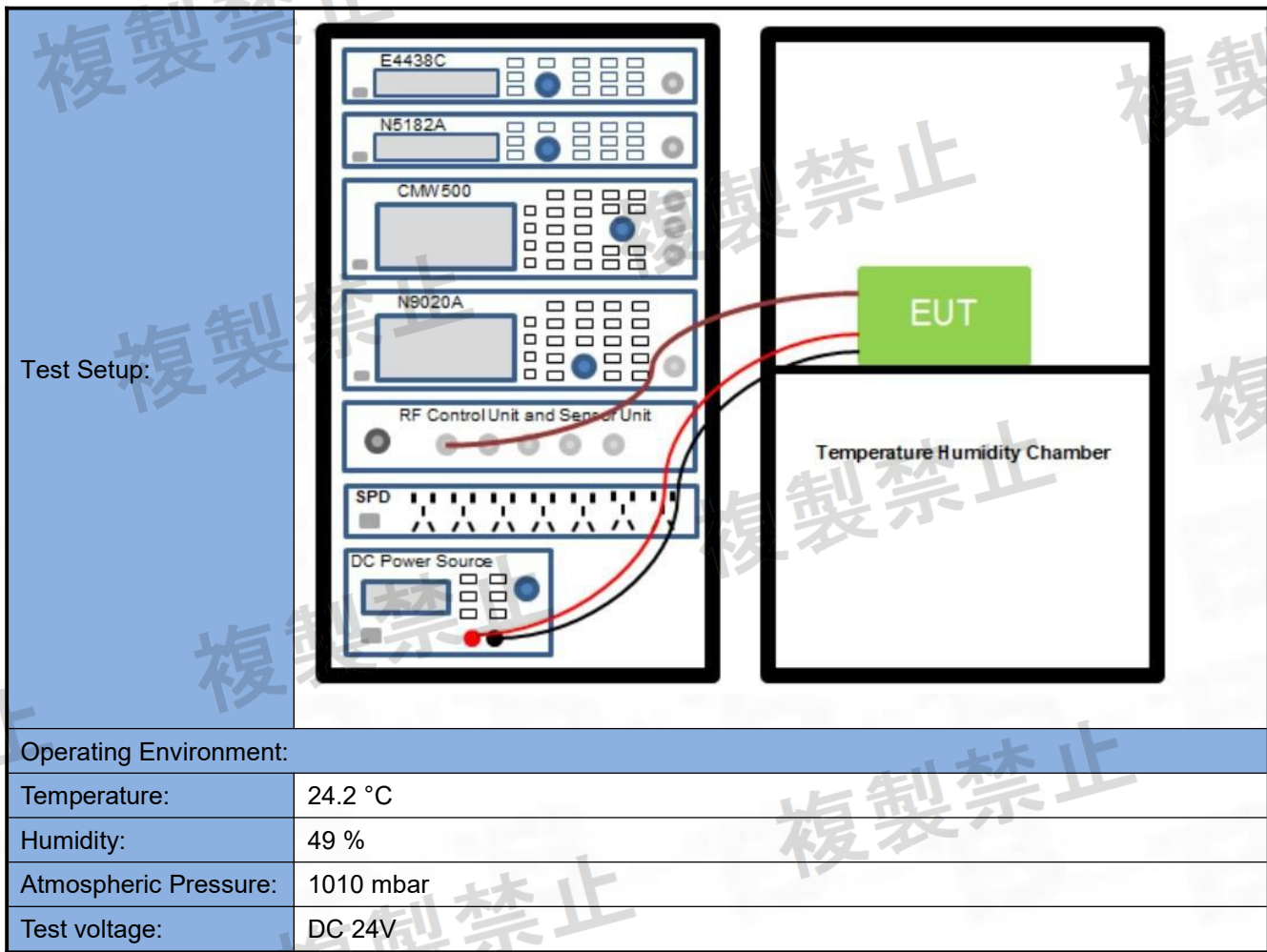
5.3.1 Test Data

Please Refer to Appendix for Details.

5.4 E.I.R.P

Test Requirement:	Article 2-1, Item 19-3
Test Method:	[Setting 1] – Search for peak power frequency
	Center Frequency: Test frequency
	Span: Approximately twice the occupied bandwidth
	RBW: 1MHz
	VBW: Approximately three times the RBW
	Sweep time: Auto
	Sweep data points: 1001 or greater
	Detector mode: Positive peak
	Indication mode: Max hold
	[Setting 2] – Measurement of average antenna power for FHSS, DSSS, OFDM
	Frequency: Frequency of peak power found using [Setting 1]
	Span: 0 Hz
	RBW: 3 MHz (FHSS in 7.4.1.1) 1MHz (DSSS, OFDM, FHSS in 7.4.1.2)
	Detector mode: Sample
	Sweep: Minimum time required to make an accurate measurement.
	For burst type (intermittent) transmission sweep time shall be greater than one burst interval
	Sweep data points: 1001 or greater
	[Setting 3] – Measurement of average antenna power other than for FHSS, DSSS, OFDM
	Frequency: Frequency of peak power found using [Setting 1]
	Span: 0 Hz
	RBW: Bandwidth sufficient to cover that occupied by the carrier
	VBW: Bandwidth sufficient to cover that occupied by the carrier
	Detector mode: Sample
	Sweep: Minimum time required to make an accurate measurement.
	For burst type (intermittent) transmission sweep time shall be greater than one burst interval
	Sweep data points: 1001 or greater
Test Limit:	5150~5250MHz: 10mW/MHz for DSS and OFDM 20MHz; 5mW/MHz for OFDM 40MHz; 2.5mW/MHz for OFDM 80MHz; 1.25mW/MHz for OFDM 80+80MHz and 160MHz; 5250~5350MHz with TPC: 10mW/MHz for DSS and OFDM 20MHz; 5mW/MHz for OFDM 40MHz; 2.5mW/MHz for OFDM 80MHz; 1.25mW/MHz for OFDM 80+80MHz and 160MHz;

	5250~5350MHz without TPC: 5mW/MHz for DSS and OFDM 20MHz; 2.5mW/MHz for OFDM 40MHz; 1.25mW/MHz for OFDM 80MHz; 0.625mW/MHz for OFDM 80+80MHz and 160MHz; 5470~5725MHz with TPC: 50mW/MHz for DSS and OFDM 20MHz; 25mW/MHz for OFDM 40MHz; 12.5mW/MHz for OFDM 80MHz; 1.25mW/MHz for OFDM 80+80MHz; 6.25mW/MHz for and 160MHz; 5250~5350MHz without TPC: 25mW/MHz for DSS and OFDM 20MHz; 12.5mW/MHz for OFDM 40MHz; 6.25mW/MHz for OFDM 80MHz; 0.625mW/MHz for OFDM 80+80MHz; 3.125mW/MHz for and 160MHz;
Procedure:	- A hopping transmission separation of 1MHz or less with a constant transmission interval - The transmission probability is equal for all hopping frequencies Procedure: (1) After configuring the spectrum analyzer to [Setting 1], find the frequency of maximum transmitted power (2) After configuring the spectrum analyzer to [Setting 2], measure the Average Burst Power of the frequency found in (1) Note: Measure the period A-B in the figure below:  Measurement of Average Burst Power (A to B) (3) Calculate Antenna Power using the following formula: $\text{Antenna Power (W/MHz)} = \text{Average Burst Power (W)} / \text{Spread Bandwidth (MHz)}$ [Note] Spread Bandwidth in the formula above is derived from the data collected in section 5 (Occupied Bandwidth (99%)) (4) If the EUT has multiple antennas then each antenna power output shall be measured individually – the sum of these individual measurements shall represent the power output value (1) After configuring the spectrum analyzer to [Setting 1], find the frequency of maximum transmitted power (2) After configuring the spectrum analyzer to [Setting 2], measure the Average Burst Power of the frequency found in (1) $\text{Antenna Power (W/MHz)} = \text{Average Burst Power}$



5.4.1 Test Data

Please Refer to Appendix for Details.

5.5 Out of Band Emission

Test Requirement:	Article 2-1, Item 19-3																																						
Test Method:	[Setting 1]																																						
	Frequency range:	Test frequency range as required																																					
	RBW:	1 MHz																																					
	VBW:	1 MHz																																					
	Sweep time:	Minimum time required to make an accurate measurement																																					
	Sweep Data Points:	1001 or greater																																					
	Detector mode:	Positive peak																																					
	Indication mode:	Max hold (see Note 1)																																					
	Note 1:	Sweep shall be repeated until the max hold waveform is stable.																																					
	[Setting 2]																																						
	Center frequency:	Frequency of spurious emission found using [Setting 1]																																					
	Span:	0 Hz																																					
	RBW:	1 MHz																																					
	VBW:	1 MHz																																					
	Sweep time:	Minimum time required to make an accurate measurement. For burst type (intermittent) spurious emissions, sweep time shall be greater than one burst interval																																					
	Sweep Data Points:	1001 or greater																																					
	Detector mode:	Sample																																					
Test Limit:	<table><tr><th colspan="2">20MHz system</th><th colspan="2">W52</th></tr><tr><th>OBW: 18MHz or less</th><th>OBW: 18 - 20 MHz</th><th>40MHz system</th><th>80MHz system</th></tr><tr><td>5.142 MHz or less: 2.5 μW/MHz</td><td>5.142 MHz or less: 2.5 μW/MHz</td><td>5.141.6 MHz or less: 2.5 μW/MHz</td><td>5.123.2 MHz or less: 2.5 μW/MHz</td></tr><tr><td>5.142 - 5.150 MHz: 15 μW/MHz</td><td>5.142 - 5.150 MHz: 15 μW/MHz</td><td>5.141.6 - 5.150 MHz: 15 μW/MHz</td><td>5.123.2 - 5.150 MHz: 15 μW/MHz</td></tr><tr><td>5.250 - 5.251 MHz: $10^{-12} \cdot f^{(2)}$ mW/MHz</td><td>5.250 - 5.251 MHz: $10^{-12} \cdot f^{(2)}$ mW/MHz</td><td>5.250 - 5.251 MHz: $10^{-12} \cdot f^{(2)}$ mW/MHz</td><td>5.250 - 5.251 MHz: $10^{-12} \cdot f^{(2)}$ mW/MHz</td></tr><tr><td>5.251 - 5.260 MHz: $10^{-12} \cdot f^{(2)}$ mW/MHz</td><td>5.251 - 5.260 MHz: $10^{-12} \cdot f^{(2)}$ mW/MHz</td><td>5.251 - 5.270 MHz: $10^{-12} \cdot f^{(2)}$ mW/MHz</td><td>5.251 - 5.260 MHz: $10^{-12} \cdot f^{(2)}$ mW/MHz</td></tr><tr><td>5.260 - 5.266.7 MHz: $10^{-12} \cdot f^{(2)}$ mW/MHz</td><td>5.260 - 5.266.7 MHz: $10^{-12} \cdot f^{(2)}$ mW/MHz</td><td>5.270 - 5.278.4 MHz: $10^{-12} \cdot f^{(2)}$ mW/MHz</td><td>5.290 - 5.296.7 MHz: $10^{-12} \cdot f^{(2)}$ mW/MHz</td></tr><tr><td>5.266.7 MHz or more: 2.5 μW/MHz</td><td>5.266.7 MHz or more: 2.5 μW/MHz</td><td>5.278.4 MHz or more: 2.5 μW/MHz</td><td>5.296.7 MHz or more: 2.5 μW/MHz</td></tr><tr><td>f = MHz, Difference from 5240 (MHz)</td><td>f = MHz, Difference from 5240 (MHz)</td><td>f = MHz, Difference from 5230 (MHz)</td><td>f = MHz, Difference from 5210 (MHz)</td></tr></table>			20MHz system		W52		OBW: 18MHz or less	OBW: 18 - 20 MHz	40MHz system	80MHz system	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 - 5.150 MHz: 15 μ W/MHz	5.142 - 5.150 MHz: 15 μ W/MHz	5.141.6 - 5.150 MHz: 15 μ W/MHz	5.123.2 - 5.150 MHz: 15 μ W/MHz	5.250 - 5.251 MHz: $10^{-12} \cdot f^{(2)}$ mW/MHz	5.250 - 5.251 MHz: $10^{-12} \cdot f^{(2)}$ mW/MHz	5.250 - 5.251 MHz: $10^{-12} \cdot f^{(2)}$ mW/MHz	5.250 - 5.251 MHz: $10^{-12} \cdot f^{(2)}$ mW/MHz	5.251 - 5.260 MHz: $10^{-12} \cdot f^{(2)}$ mW/MHz	5.251 - 5.260 MHz: $10^{-12} \cdot f^{(2)}$ mW/MHz	5.251 - 5.270 MHz: $10^{-12} \cdot f^{(2)}$ mW/MHz	5.251 - 5.260 MHz: $10^{-12} \cdot f^{(2)}$ mW/MHz	5.260 - 5.266.7 MHz: $10^{-12} \cdot f^{(2)}$ mW/MHz	5.260 - 5.266.7 MHz: $10^{-12} \cdot f^{(2)}$ mW/MHz	5.270 - 5.278.4 MHz: $10^{-12} \cdot f^{(2)}$ mW/MHz	5.290 - 5.296.7 MHz: $10^{-12} \cdot f^{(2)}$ mW/MHz	5.266.7 MHz or more: 2.5 μ W/MHz	5.266.7 MHz or more: 2.5 μ W/MHz	5.278.4 MHz or more: 2.5 μ W/MHz	5.296.7 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)
	20MHz system		W52																																				
	OBW: 18MHz or less	OBW: 18 - 20 MHz	40MHz system	80MHz system																																			
	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 - 5.150 MHz: 15 μ W/MHz	5.142 - 5.150 MHz: 15 μ W/MHz	5.141.6 - 5.150 MHz: 15 μ W/MHz	5.123.2 - 5.150 MHz: 15 μ W/MHz																																			
	5.250 - 5.251 MHz: $10^{-12} \cdot f^{(2)}$ mW/MHz	5.250 - 5.251 MHz: $10^{-12} \cdot f^{(2)}$ mW/MHz	5.250 - 5.251 MHz: $10^{-12} \cdot f^{(2)}$ mW/MHz	5.250 - 5.251 MHz: $10^{-12} \cdot f^{(2)}$ mW/MHz																																			
	5.251 - 5.260 MHz: $10^{-12} \cdot f^{(2)}$ mW/MHz	5.251 - 5.260 MHz: $10^{-12} \cdot f^{(2)}$ mW/MHz	5.251 - 5.270 MHz: $10^{-12} \cdot f^{(2)}$ mW/MHz	5.251 - 5.260 MHz: $10^{-12} \cdot f^{(2)}$ mW/MHz																																			
	5.260 - 5.266.7 MHz: $10^{-12} \cdot f^{(2)}$ mW/MHz	5.260 - 5.266.7 MHz: $10^{-12} \cdot f^{(2)}$ mW/MHz	5.270 - 5.278.4 MHz: $10^{-12} \cdot f^{(2)}$ mW/MHz	5.290 - 5.296.7 MHz: $10^{-12} \cdot f^{(2)}$ mW/MHz																																			
	5.266.7 MHz or more: 2.5 μ W/MHz	5.266.7 MHz or more: 2.5 μ W/MHz	5.278.4 MHz or more: 2.5 μ W/MHz	5.296.7 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)																																			
	<table><tr><th colspan="2">20MHz system</th><th colspan="2">W53</th></tr><tr><th>OBW: 18MHz or less</th><th>OBW: 18 - 20 MHz</th><th>40MHz system</th><th>80MHz system</th></tr><tr><td>5.233.3 MHz or less: 2.5 μW/MHz</td><td>5.233.3 MHz or less: 2.5 μW/MHz</td><td>5.221.6 MHz or less: 2.5 μW/MHz</td><td>5.203.3 MHz or less: 2.5 μW/MHz</td></tr><tr><td>5.233.3 - 5.240 MHz: $10^{-12} \cdot f^{(2)}$ mW/MHz</td><td>5.233.3 - 5.240 MHz: $10^{-12} \cdot f^{(2)}$ mW/MHz</td><td>5.221.6 - 5.230 MHz: $10^{-12} \cdot f^{(2)}$ mW/MHz</td><td>5.203.3 - 5.210 MHz: $10^{-12} \cdot f^{(2)}$ mW/MHz</td></tr><tr><td>5.240 - 5.249 MHz: $10^{-12} \cdot f^{(2)}$ mW/MHz</td><td>5.240 - 5.249 MHz: $10^{-12} \cdot f^{(2)}$ mW/MHz</td><td>5.230 - 5.249 MHz: $10^{-12} \cdot f^{(2)}$ mW/MHz</td><td>5.210 - 5.249 MHz: $10^{-12} \cdot f^{(2)}$ mW/MHz</td></tr><tr><td>5.249 - 5.250 MHz: $10^{-12} \cdot f^{(2)}$ mW/MHz</td><td>5.249 - 5.250 MHz: $10^{-12} \cdot f^{(2)}$ mW/MHz</td><td>5.249 - 5.250 MHz: $10^{-12} \cdot f^{(2)}$ mW/MHz</td><td>5.249 - 5.250 MHz: $10^{-12} \cdot f^{(2)}$ mW/MHz</td></tr><tr><td>5.350 MHz or more: 2.5 μW/MHz</td><td>5.350 - 5.358.4 MHz: $10^{-12} \cdot f^{(2)}$ mW/MHz</td><td>5.350 - 5.358.4 MHz: 15 μW/MHz</td><td>5.350 - 5.376.8 MHz: 15 μW/MHz</td></tr><tr><td>f = MHz, Difference from 5260 (MHz)</td><td>f = MHz, Difference from 5260 (MHz)</td><td>f = MHz, Difference from 5270 (MHz)</td><td>f = MHz, Difference from 5250 (MHz)</td></tr></table>			20MHz system		W53		OBW: 18MHz or less	OBW: 18 - 20 MHz	40MHz system	80MHz system	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: $10^{-12} \cdot f^{(2)}$ mW/MHz	5.233.3 - 5.240 MHz: $10^{-12} \cdot f^{(2)}$ mW/MHz	5.221.6 - 5.230 MHz: $10^{-12} \cdot f^{(2)}$ mW/MHz	5.203.3 - 5.210 MHz: $10^{-12} \cdot f^{(2)}$ mW/MHz	5.240 - 5.249 MHz: $10^{-12} \cdot f^{(2)}$ mW/MHz	5.240 - 5.249 MHz: $10^{-12} \cdot f^{(2)}$ mW/MHz	5.230 - 5.249 MHz: $10^{-12} \cdot f^{(2)}$ mW/MHz	5.210 - 5.249 MHz: $10^{-12} \cdot f^{(2)}$ mW/MHz	5.249 - 5.250 MHz: $10^{-12} \cdot f^{(2)}$ mW/MHz	5.249 - 5.250 MHz: $10^{-12} \cdot f^{(2)}$ mW/MHz	5.249 - 5.250 MHz: $10^{-12} \cdot f^{(2)}$ mW/MHz	5.249 - 5.250 MHz: $10^{-12} \cdot f^{(2)}$ mW/MHz	5.350 MHz or more: 2.5 μ W/MHz	5.350 - 5.358.4 MHz: $10^{-12} \cdot f^{(2)}$ mW/MHz	5.350 - 5.358.4 MHz: 15 μ W/MHz	5.350 - 5.376.8 MHz: 15 μ W/MHz	f = MHz, Difference from 5260 (MHz)	f = MHz, Difference from 5260 (MHz)	f = MHz, Difference from 5270 (MHz)	f = MHz, Difference from 5250 (MHz)				
	20MHz system		W53																																				
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	5.249 - 5.250 MHz: $10^{-12} \cdot f^{(2)}$ mW/MHz	5.249 - 5.250 MHz: $10^{-12} \cdot f^{(2)}$ mW/MHz	5.249 - 5.250 MHz: $10^{-12} \cdot f^{(2)}$ mW/MHz	5.249 - 5.250 MHz: $10^{-12} \cdot f^{(2)}$ mW/MHz																																			
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f = MHz, Difference from 5260 (MHz)	f = MHz, Difference from 5260 (MHz)	f = MHz, Difference from 5270 (MHz)	f = MHz, Difference from 5250 (MHz)																																				
<table><tr><th colspan="2">20MHz system</th><th colspan="2">W56</th></tr><tr><th>DSSS, etc.</th><th>OFDM</th><th>40MHz system</th><th>80MHz system</th></tr><tr><td>5.470 MHz or less: 12.5 μW/MHz</td><td>5.460 MHz or less: 2.5 μW/MHz</td><td>5.460 MHz or less: 12.5 μW/MHz</td><td>5.460 MHz or less: 12.5 μW/MHz</td></tr><tr><td></td><td>5.460 - 5.470 MHz: 12.5 μW/MHz</td><td>5.460 - 5.470 MHz: 50 μW/MHz</td><td>5.460 - 5.469.5 MHz: 50 μW/MHz</td></tr><tr><td>5.730 MHz or more: 12.5 μW/MHz</td><td>5.745 - 5.765 MHz: 12.5 μW/MHz</td><td>5.770 MHz or more: 12.5 μW/MHz</td><td>5.469.5 - 5.470 MHz: 51.2 μW/MHz</td></tr><tr><td></td><td>Over 5.765 MHz: 2.5 μW/MHz</td><td></td><td>5.770 MHz or more: 12.5 μW/MHz</td></tr></table>			20MHz system		W56		DSSS, etc.	OFDM	40MHz system	80MHz system	5.470 MHz or less: 12.5 μ W/MHz	5.460 MHz or less: 2.5 μ W/MHz	5.460 MHz or less: 12.5 μ W/MHz	5.460 MHz or less: 12.5 μ W/MHz		5.460 - 5.470 MHz: 12.5 μ W/MHz	5.460 - 5.470 MHz: 50 μ W/MHz	5.460 - 5.469.5 MHz: 50 μ W/MHz	5.730 MHz or more: 12.5 μ W/MHz	5.745 - 5.765 MHz: 12.5 μ W/MHz	5.770 MHz or more: 12.5 μ W/MHz	5.469.5 - 5.470 MHz: 51.2 μ W/MHz		Over 5.765 MHz: 2.5 μ W/MHz		5.770 MHz or more: 12.5 μ W/MHz													
20MHz system		W56																																					
DSSS, etc.	OFDM	40MHz system	80MHz system																																				
5.470 MHz or less: 12.5 μ W/MHz	5.460 MHz or less: 2.5 μ W/MHz	5.460 MHz or less: 12.5 μ W/MHz	5.460 MHz or less: 12.5 μ W/MHz																																				
	5.460 - 5.470 MHz: 12.5 μ W/MHz	5.460 - 5.470 MHz: 50 μ W/MHz	5.460 - 5.469.5 MHz: 50 μ W/MHz																																				
5.730 MHz or more: 12.5 μ W/MHz	5.745 - 5.765 MHz: 12.5 μ W/MHz	5.770 MHz or more: 12.5 μ W/MHz	5.469.5 - 5.470 MHz: 51.2 μ W/MHz																																				
	Over 5.765 MHz: 2.5 μ W/MHz		5.770 MHz or more: 12.5 μ W/MHz																																				

W52 + W53	W56	* A related value is defined by the E.I.R.P. . * Measurement range: 30MHz to 26GHz
160MHz system		
5,099.6 MHz or less : 2.5 μ W/MHz	5,419.6 MHz or less : 12.5 μ W/MHz	
5,099.6 - 5,150 MHz : 15 μ W/MHz	5,419.6 - 5,470 MHz : 50 μ W/MHz	
5,350 - 5,400.4 MHz : 15 μ W/MHz	5,725 MHz or more : 12.5 μ W/MHz	
5,400.4 MHz or more : 2.5 μ W/MHz		
5.21GHz & (5.53GHz, 5.61GHz or 5.69GHz)	5.29GHz & (5.53GHz, 5.61GHz or 5.69GHz)	5.63GHz & 5.69GHz
80MHz + 80MHz system (Not adjacent radio)		
5,134.8 MHz or less : 2.5 μ W/MHz	5,214.8 MHz or less : 2.5 μ W/MHz	5,419.6 MHz or less : 12.5 μ W/MHz
5,134.8 - 5,150 MHz : 162.5 μ W/MHz	5,214.8 - 5,249 MHz : $10^{-10} \times (f - 5210)^2 \times 10^3$ mW/MHz	5,419.6 - 5,470 MHz : 50 μ W/MHz
5,250 - 5,251 MHz : $10^{-10} \times (f - 5250)^2 \times 10^3$ mW/MHz	5,249 - 5,250 MHz : $10^{-10} \times (f - 5250)^2 \times 10^3$ mW/MHz	
5,251 - 5,285.2 MHz : $10^{-10} \times (f - 5251)^2 \times 10^3$ mW/MHz	5,350 - 5,365.2 MHz : 15 μ W/MHz	5,770 MHz or more : 15 μ W/MHz
5,285.2 - 5,370 MHz : 2.5 μ W/MHz	5,365.2 - 5,410 MHz : 2.5 μ W/MHz	
5,370 - 5,454.8 MHz : 2.5 μ W/MHz (When used simultaneously with a 5.2GHz band high-power radio station : 12.5 μ W/MHz)	5,410 - 5,454.8 MHz : 2.5 μ W/MHz	
5,454.8 - 5,470 MHz : 15 μ W/MHz (When used simultaneously with a 5.2GHz band high-power radio station : 50 μ W/MHz)	5,454.8 - 5,470 MHz : 15 μ W/MHz	
5,730 MHz or more : 15 μ W/MHz	5,730 MHz or more : 15 μ W/MHz	
(*When used 5600MHz)	(*When used 5600MHz)	
5,770 MHz or more : 15 μ W/MHz	5,770 MHz or more : 15 μ W/MHz	
f = MHz, Difference from 5210 (MHz)	f = MHz, Difference from 5200 (MHz)	

(1) After configuring the spectrum analyzer to [Setting 1], search for spurious emissions from 30 MHz to 12.5 GHz. If the sweep range does not cover the required measurement frequency range then the measurement range will need to be divided into sufficient sections of size [RBW x Sweep Data Points]. If spurious emissions greater than [Limit - 3dB] are found, then more detailed measurements are required, go to step (2)

(2) Configure the spectrum analyzer using [Setting 2] and measure the average signal amplitude.
If the spurious emission is burst type (intermittent), then the average value shall not include signal OFF time.

(3) Calculate the spurious emission value (Calculated Value) using following the formula below:
Calculated Value = (Measured Value using (3) + 15.2dB)
Note: 15.2dB adjustment is derived from the Conversion Factor of RBW
Conversion Factor of RBW = 10 x Log (Reference Bandwidth / RBW of measurement) = 15.2 [dB] Where: Reference Bandwidth = 1 MHz
RBW of measurement = 30 kHz

(4) If the calculated value using (4) is over the Limit (section 6.7), go to (6)

(6) Configure the spectrum analyzer to [Setting 3] then make the following changes:
Frequency: Frequency of spurious emission
Span: 1 MHz

(6) After sweep, send the span data set to the PC

(7) Convert measured data from dBm to Watts

(8) Sum all the data using the formula below. If the sum is within the limit, the test result is Pass, otherwise, Fail

Procedure:

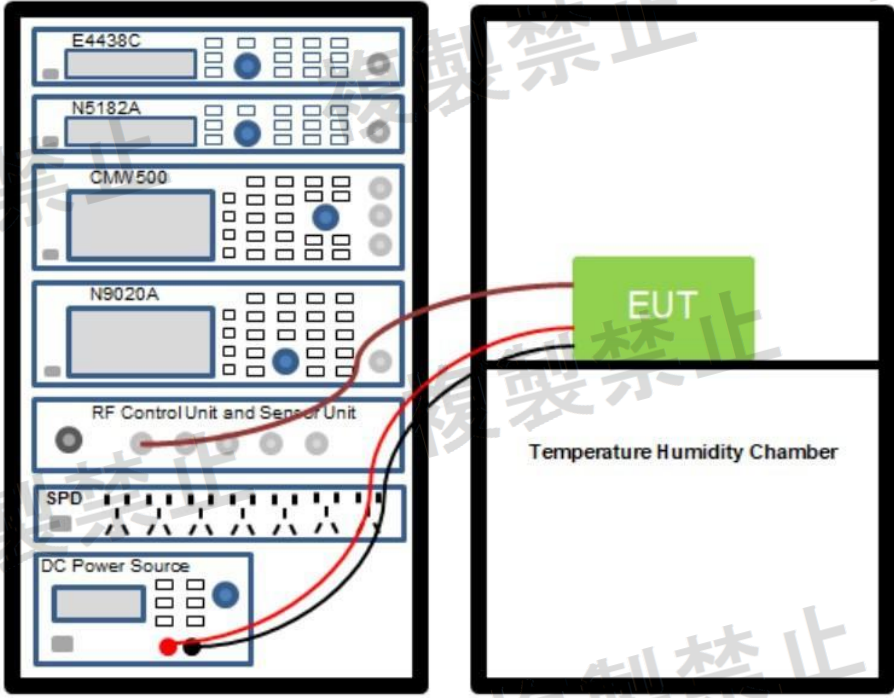
$$P_s = \left(\sum_{i=1}^n E_i \right) \times \frac{S_w}{RBW \times k \times n}$$

Ps: Sum (Watts)
Ei: Measured value at each point in the Span (Watts) Sw: Span (1MHz)
n: Number of measurement points in the Span
k: Correction factor for Equivalent Noise Bandwidth, specific to each spectrum analyzer, check the instrument user guide
RBW: Resolution Bandwidth (MHz).

(9) If the EUT has multiple antennas, measure the spurious emission form each individual antenna using steps (1) through (9)

(10) Convert the individual antenna spurious level measurements (step (10)) from dB to absolute values

(11) Combine (sum) the absolute values of the spurious measurements at each frequency for each antenna (to create a single composite spectrum of spurious emissions)

	(12) Ensure that the composite spectrum does not exceed the Limit defined in 6.7 (Technical Standard) (13) Configuring the spectrum analyzer using [Setting 3] and measure the spurious emissions with all the antennas electrically combined
Test Setup:	 The diagram illustrates the test setup. On the left, a rack of equipment includes: E4438C, N5182A, CMW500, N9020A, RF Control Unit and Sensor Unit, SPD, and DC Power Source. On the right, a Temperature Humidity Chamber contains the EUT (Equipment Under Test). Red and black cables connect the equipment to the chamber. Specifically, the RF Control Unit and Sensor Unit, SPD, and DC Power Source are connected to the EUT.
Operating Environment:	
Temperature:	23.3 °C
Humidity:	53.1 %
Atmospheric Pressure:	1010 mbar
Test voltage:	DC 24V

5.5.1 Test Data

Please Refer to Appendix for Details.

5.6 Adjacent Channel Emitted Power

Test Requirement:	Article 2-1, Item 19-3
Test Method:	Center Frequency: Test Frequency Span: (see Note1) RBW: 300kHz VBW: 300kHz Sweep time: Auto Sweep data points: 1001 or greater Detector mode: Sample (for Continuous Type) Positive peak (for Burst Type) Indication mode: Single sweep (for Continuous Type) Max hold (for Burst Type) Note1: 5.2GHz and 5.3GHz Band: OBW $\leq$ 18MHz: 18MHz 18MHz < OBW $\leq$ 19MHz: 19MHz 19MHz < OBW $\leq$ 38MHz: 38MHz 38MHz < OBW $\leq$ 78MHz: 78MHz 5.6GHz Band: OFDM: OBW $\leq$ 19.7MHz: 19MHz 19.7MHz < OBW $\leq$ 38MHz: 38MHz 38MHz < OBW $\leq$ 78MHz: 78MHz Others: 18MHz
Test Limit:	For Bandwidth equal to 20MHz and 40MHz: $F_c \pm 20\text{MHz}$: -25dBc $F_c \pm 40\text{MHz}$: -40dBc For Bandwidth above 40MHz: $F_c \pm 80\text{MHz}$: -25dBc
Procedure:	(1) Configure the spectrum analyzer to [Setting 1] and set the EUT to transmit mode (2) Measure the transmitter power (defined as P_C) using the procedure shown below: (a) Set the center of the span to the transmit frequency (b) After sweeping the entire span, send the span data set to the PC (c) Convert measured data from dBm to Watts (d) Sum all the data to derive the P_C (3) Measure the Upper Adjacent Channel Leakage Power (defined as P_U) using the procedure shown below. For measurement frequency, see Note2. (a) Set the center of the span to [Transmit Frequency + 20 MHz (or 40 MHz)] (b) Sweep the entire span, send the span data set to the PC (c) Convert measured data from dBm to Watts (d) Sum all the data to derive the P_U (e) After setting the center of the span to [Transmit Frequency + 40MHz (or 80 MHz)], repeat steps (b) through step (d) (4) Measure the Lower Adjacent Channel Leakage Power (defined as P_L) using the procedure shown below. For measurement frequency, see Note2. (a) Set the center of the span to [Transmit Frequency + 20 MHz (or 40 MHz)] (b) Sweep the entire span, send the span data set to the PC (c) Convert measured data from dBm to Watts (d) Sum all the data to derive the P_L (e) After setting the center of the span to [Transmit Frequency + 40MHz (or 80 MHz)], repeat steps (b) through step (d) (5) Derive all the Adjacent Channel Leakage Power Ratios using the formula shown

below:

- Upper Adjacent Channel Leakage Power Ratio = $10 \log (P_U / P_C)$

- Lower Adjacent Channel Leakage Power Ratio = $10 \log (P_L / P_C)$

(6) If the EUT has multiple antennas then the following steps shall be taken:

(a) Repeat steps (1) through step (5) for each individual antenna

(b) Repeat steps (1) through step (5) with all the antennas combined

(c) To derive the total P_C , sum the individual antenna P_C measurements from step (a)

(d) Derive the total P_U and total P_L using the same procedure as step (c)

(e) Calculate the Adjacent Channel Leakage Power Ratio using the total P_C , total P_U and total P_L using the formula in step (5)

(f) Note 2:

5.2 GHz and 5.3 GHz band:

OBW $\leq$ 18 MHz: Transmit frequency $\pm$ 20 MHz, $\pm$ 40 MHz

18MHz < OBW $\leq$ 19MHz: Transmit frequency $\pm$ 20 MHz, $\pm$ 40 MHz

19MHz < OBW $\leq$ 38MHz: Transmit frequency $\pm$ 40 MHz, $\pm$ 80 MHz

38MHz < OBW $\leq$ 78MHz: Transmit frequency $\pm$ 80 MHz

5.6GHz Band:

OFDM:

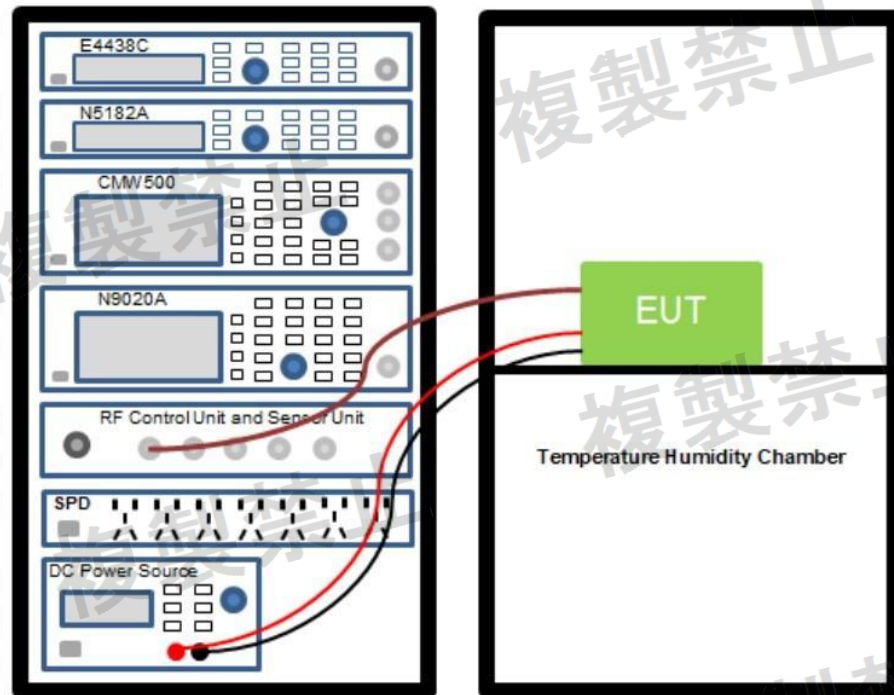
OBW $\leq$ 19.7MHz: Transmit frequency $\pm$ 20 MHz, $\pm$ 40 MHz

19.7MHz < OBW $\leq$ 38MHz: Transmit frequency $\pm$ 40 MHz, $\pm$ 80 MHz

38MHz < OBW $\leq$ 78MHz: Transmit frequency $\pm$ 80 MHz

Other than OFDM: Transmit frequency $\pm$ 20 MHz, $\pm$ 40 MHz

Test Setup:



Operating Environment:

Temperature: 22.1 °C

Humidity: 45.4 %

Atmospheric Pressure: 1010 mbar

Test voltage: DC 24V

5.6.1 Test Data

Please Refer to Appendix for Details.

5.7 Spurious Emission Intensity

Test Requirement:	Article 2-1, Item 19-3																																														
Test Method:	[Setting 1]																																														
	Frequency range:	Test frequency range as required																																													
	RBW:	1 MHz																																													
	VBW:	1 MHz																																													
	Sweep time:	Minimum time required to make an accurate measurement																																													
	Sweep Data Points:	1001 or greater																																													
	Detector mode:	Positive peak																																													
	Indication mode:	Max hold (see Note 1)																																													
	Note 1:	Sweep shall be repeated until the max hold waveform is stable.																																													
	[Setting 2]																																														
	Center frequency:	Frequency of spurious emission found using [Setting 1]																																													
	Span:	0 Hz																																													
	RBW:	1 MHz																																													
	VBW:	1 MHz																																													
	Sweep time:	Minimum time required to make an accurate measurement. For burst type (intermittent) spurious emissions, sweep time shall be greater than one burst interval																																													
	Sweep Data Points:	1001 or greater																																													
	Detector mode:	Sample																																													
Test Limit:	<table><tr><th colspan="4">W52</th></tr><tr><th colspan="2">20MHz system</th><th>40MHz system</th><th>80MHz system</th></tr><tr><td>OBW: 18MHz or less</td><td>OBW: 18 - 20 MHz</td><td></td><td></td></tr><tr><td>5.142 MHz or less: 2.5 μW/MHz</td><td>5.142 MHz or less: 2.5 μW/MHz</td><td>5.141.6 MHz or less: 2.5 μW/MHz</td><td>5.123.2 MHz or less: 2.5 μW/MHz</td></tr><tr><td>5.142 - 5.150 MHz: 15 μW/MHz</td><td>5.142 - 5.150 MHz: 15 μW/MHz</td><td>5.141.6 - 5.150 MHz: 15 μW/MHz</td><td>5.123.2 - 5.150 MHz: 15 μW/MHz</td></tr><tr><td></td><td>5.250 - 5.250.2 MHz: $10^{-(12-0.9\log(f-5.250))}$ mW/MHz</td><td></td><td></td></tr><tr><td>5.250 - 5.251 MHz: $10^{-(12-0.9\log(f-5.250))}$ mW/MHz</td><td>5.250.2 - 5.251 MHz: $10^{-(12-0.9\log(f-5.250))}$ mW/MHz</td><td>5.250 - 5.251 MHz: $10^{-(12-0.9\log(f-5.250))}$ mW/MHz</td><td>5.250 - 5.251 MHz: $10^{-(12-0.9\log(f-5.250))}$ mW/MHz</td></tr><tr><td>5.251 - 5.260 MHz: $10^{-(12-0.9\log(f-5.250))}$ mW/MHz</td><td>5.251 - 5.260 MHz: $10^{-(12-0.9\log(f-5.250))}$ mW/MHz</td><td>5.251 - 5.270 MHz: $10^{-(12-0.9\log(f-5.250))}$ mW/MHz</td><td>5.251 - 5.260 MHz: $10^{-(12-0.9\log(f-5.250))}$ mW/MHz</td></tr><tr><td>5.260 - 5.266.7 MHz: $10^{-(12-0.9\log(f-5.260))}$ mW/MHz</td><td>5.260 - 5.266.7 MHz: $10^{-(12-0.9\log(f-5.260))}$ mW/MHz</td><td>5.270 - 5.278.4 MHz: $10^{-(12-0.9\log(f-5.270))}$ mW/MHz</td><td>5.260 - 5.266.7 MHz: $10^{-(12-0.9\log(f-5.260))}$ mW/MHz</td></tr><tr><td>5.266.7 MHz or more: 2.5 μW/MHz</td><td>5.266.7 MHz or more: 2.5 μW/MHz</td><td>5.278.4 MHz or more: 2.5 μW/MHz</td><td>5.266.7 MHz or more: 2.5 μW/MHz</td></tr><tr><td>f = MHz, Difference from 5240 (MHz)</td><td>f = MHz, Difference from 5240 (MHz)</td><td>f = MHz, Difference from 5230 (MHz)</td><td>f = MHz, Difference from 5210 (MHz)</td></tr></table>			W52				20MHz system		40MHz system	80MHz system	OBW: 18MHz or less	OBW: 18 - 20 MHz			5.142 MHz or less: 2.5 μW/MHz	5.142 MHz or less: 2.5 μW/MHz	5.141.6 MHz or less: 2.5 μW/MHz	5.123.2 MHz or less: 2.5 μW/MHz	5.142 - 5.150 MHz: 15 μW/MHz	5.142 - 5.150 MHz: 15 μW/MHz	5.141.6 - 5.150 MHz: 15 μW/MHz	5.123.2 - 5.150 MHz: 15 μW/MHz		5.250 - 5.250.2 MHz: $10^{-(12-0.9\log(f-5.250))}$ mW/MHz			5.250 - 5.251 MHz: $10^{-(12-0.9\log(f-5.250))}$ mW/MHz	5.250.2 - 5.251 MHz: $10^{-(12-0.9\log(f-5.250))}$ mW/MHz	5.250 - 5.251 MHz: $10^{-(12-0.9\log(f-5.250))}$ mW/MHz	5.250 - 5.251 MHz: $10^{-(12-0.9\log(f-5.250))}$ mW/MHz	5.251 - 5.260 MHz: $10^{-(12-0.9\log(f-5.250))}$ mW/MHz	5.251 - 5.260 MHz: $10^{-(12-0.9\log(f-5.250))}$ mW/MHz	5.251 - 5.270 MHz: $10^{-(12-0.9\log(f-5.250))}$ mW/MHz	5.251 - 5.260 MHz: $10^{-(12-0.9\log(f-5.250))}$ mW/MHz	5.260 - 5.266.7 MHz: $10^{-(12-0.9\log(f-5.260))}$ mW/MHz	5.260 - 5.266.7 MHz: $10^{-(12-0.9\log(f-5.260))}$ mW/MHz	5.270 - 5.278.4 MHz: $10^{-(12-0.9\log(f-5.270))}$ mW/MHz	5.260 - 5.266.7 MHz: $10^{-(12-0.9\log(f-5.260))}$ mW/MHz	5.266.7 MHz or more: 2.5 μW/MHz	5.266.7 MHz or more: 2.5 μW/MHz	5.278.4 MHz or more: 2.5 μW/MHz	5.266.7 MHz or more: 2.5 μW/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)
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<table><tr><th colspan="4">W53</th></tr><tr><th colspan="2">20MHz system</th><th>40MHz system</th><th>80MHz system</th></tr><tr><td>OBW: 18MHz or less</td><td>OBW: 18 - 20 MHz</td><td></td><td></td></tr><tr><td>5.233.3 MHz or less: 2.5 μW/MHz</td><td>5.233.3 MHz or less: 2.5 μW/MHz</td><td>5.221.6 MHz or less: 2.5 μW/MHz</td><td>5.203.3 MHz or less: 2.5 μW/MHz</td></tr><tr><td>5.233.3 - 5.240 MHz: $10^{-(12-0.9\log(f-5.233))}$ mW/MHz</td><td>5.233.3 - 5.240 MHz: $10^{-(12-0.9\log(f-5.233))}$ mW/MHz</td><td>5.221.6 - 5.230 MHz: $10^{-(12-0.9\log(f-5.221))}$ mW/MHz</td><td>5.203.3 - 5.210 MHz: $10^{-(12-0.9\log(f-5.203))}$ mW/MHz</td></tr><tr><td>5.240 - 5.249 MHz: $10^{-(12-0.9\log(f-5.240))}$ mW/MHz</td><td>5.240 - 5.249 MHz: $10^{-(12-0.9\log(f-5.240))}$ mW/MHz</td><td>5.230 - 5.249 MHz: $10^{-(12-0.9\log(f-5.230))}$ mW/MHz</td><td>5.210 - 5.240 MHz: $10^{-(12-0.9\log(f-5.210))}$ mW/MHz</td></tr><tr><td>5.249 - 5.250 MHz: $10^{-(12-0.9\log(f-5.249))}$ mW/MHz</td><td>5.249 - 5.250 MHz: $10^{-(12-0.9\log(f-5.249))}$ mW/MHz</td><td>5.249 - 5.250 MHz: $10^{-(12-0.9\log(f-5.249))}$ mW/MHz</td><td>5.249 - 5.250 MHz: $10^{-(12-0.9\log(f-5.249))}$ mW/MHz</td></tr><tr><td>5.350 MHz or more: 2.5 μW/MHz</td><td>5.350 - 5.350 MHz: $10^{-(12-0.9\log(f-5.350))}$ mW/MHz</td><td>5.350 - 5.358.4 MHz: 15 μW/MHz</td><td>5.350 - 5.376.8 MHz: 15 μW/MHz</td></tr><tr><td>5.350 MHz or more: 2.5 μW/MHz</td><td>5.350 MHz or more: 2.5 μW/MHz</td><td>5.358.4 MHz or more: 2.5 μW/MHz</td><td>5.376.8 MHz or more: 2.5 μW/MHz</td></tr><tr><td>f = MHz, Difference from 5260 (MHz)</td><td>f = MHz, Difference from 5260 (MHz)</td><td>f = MHz, Difference from 5270 (MHz)</td><td>f = MHz, Difference from 5250 (MHz)</td></tr></table>			W53				20MHz system		40MHz system	80MHz system	OBW: 18MHz or less	OBW: 18 - 20 MHz			5.233.3 MHz or less: 2.5 μW/MHz	5.233.3 MHz or less: 2.5 μW/MHz	5.221.6 MHz or less: 2.5 μW/MHz	5.203.3 MHz or less: 2.5 μW/MHz	5.233.3 - 5.240 MHz: $10^{-(12-0.9\log(f-5.233))}$ mW/MHz	5.233.3 - 5.240 MHz: $10^{-(12-0.9\log(f-5.233))}$ mW/MHz	5.221.6 - 5.230 MHz: $10^{-(12-0.9\log(f-5.221))}$ mW/MHz	5.203.3 - 5.210 MHz: $10^{-(12-0.9\log(f-5.203))}$ mW/MHz	5.240 - 5.249 MHz: $10^{-(12-0.9\log(f-5.240))}$ mW/MHz	5.240 - 5.249 MHz: $10^{-(12-0.9\log(f-5.240))}$ mW/MHz	5.230 - 5.249 MHz: $10^{-(12-0.9\log(f-5.230))}$ mW/MHz	5.210 - 5.240 MHz: $10^{-(12-0.9\log(f-5.210))}$ mW/MHz	5.249 - 5.250 MHz: $10^{-(12-0.9\log(f-5.249))}$ mW/MHz	5.249 - 5.250 MHz: $10^{-(12-0.9\log(f-5.249))}$ mW/MHz	5.249 - 5.250 MHz: $10^{-(12-0.9\log(f-5.249))}$ mW/MHz	5.249 - 5.250 MHz: $10^{-(12-0.9\log(f-5.249))}$ mW/MHz	5.350 MHz or more: 2.5 μW/MHz	5.350 - 5.350 MHz: $10^{-(12-0.9\log(f-5.350))}$ mW/MHz	5.350 - 5.358.4 MHz: 15 μW/MHz	5.350 - 5.376.8 MHz: 15 μW/MHz	5.350 MHz or more: 2.5 μW/MHz	5.350 MHz or more: 2.5 μW/MHz	5.358.4 MHz or more: 2.5 μW/MHz	5.376.8 MHz or more: 2.5 μW/MHz	f = MHz, Difference from 5260 (MHz)	f = MHz, Difference from 5260 (MHz)	f = MHz, Difference from 5270 (MHz)	f = MHz, Difference from 5250 (MHz)					
W53																																															
20MHz system		40MHz system	80MHz system																																												
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5.240 - 5.249 MHz: $10^{-(12-0.9\log(f-5.240))}$ mW/MHz	5.240 - 5.249 MHz: $10^{-(12-0.9\log(f-5.240))}$ mW/MHz	5.230 - 5.249 MHz: $10^{-(12-0.9\log(f-5.230))}$ mW/MHz	5.210 - 5.240 MHz: $10^{-(12-0.9\log(f-5.210))}$ mW/MHz																																												
5.249 - 5.250 MHz: $10^{-(12-0.9\log(f-5.249))}$ mW/MHz	5.249 - 5.250 MHz: $10^{-(12-0.9\log(f-5.249))}$ mW/MHz	5.249 - 5.250 MHz: $10^{-(12-0.9\log(f-5.249))}$ mW/MHz	5.249 - 5.250 MHz: $10^{-(12-0.9\log(f-5.249))}$ mW/MHz																																												
5.350 MHz or more: 2.5 μW/MHz	5.350 - 5.350 MHz: $10^{-(12-0.9\log(f-5.350))}$ mW/MHz	5.350 - 5.358.4 MHz: 15 μW/MHz	5.350 - 5.376.8 MHz: 15 μW/MHz																																												
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f = MHz, Difference from 5260 (MHz)	f = MHz, Difference from 5260 (MHz)	f = MHz, Difference from 5270 (MHz)	f = MHz, Difference from 5250 (MHz)																																												
<table><tr><th colspan="4">W56</th></tr><tr><th colspan="2">20MHz system</th><th>40MHz system</th><th>80MHz system</th></tr><tr><td>DSSS, etc.</td><td>OFDM</td><td></td><td></td></tr><tr><td>5.470 MHz or less: 12.5 μW/MHz</td><td>5.460 MHz or less: 2.5 μW/MHz</td><td>5.460 MHz or less: 12.5 μW/MHz</td><td>5.460 MHz or less: 12.5 μW/MHz</td></tr><tr><td></td><td>5.460 - 5.470 MHz: 12.5 μW/MHz</td><td>5.460 - 5.470 MHz: 90 μW/MHz</td><td>5.460 - 5.469.5 MHz: 90 μW/MHz</td></tr><tr><td></td><td>5.470 - 5.475 MHz: 12.5 μW/MHz</td><td></td><td>5.469.5 - 5.470 MHz: 51.2 μW/MHz</td></tr><tr><td>5.730 MHz or more: 12.5 μW/MHz</td><td>Over 5.735 MHz: 2.5 μW/MHz</td><td>5.770 MHz or more: 12.5 μW/MHz</td><td>5.770 MHz or more: 12.5 μW/MHz</td></tr></table>			W56				20MHz system		40MHz system	80MHz system	DSSS, etc.	OFDM			5.470 MHz or less: 12.5 μW/MHz	5.460 MHz or less: 2.5 μW/MHz	5.460 MHz or less: 12.5 μW/MHz	5.460 MHz or less: 12.5 μW/MHz		5.460 - 5.470 MHz: 12.5 μW/MHz	5.460 - 5.470 MHz: 90 μW/MHz	5.460 - 5.469.5 MHz: 90 μW/MHz		5.470 - 5.475 MHz: 12.5 μW/MHz		5.469.5 - 5.470 MHz: 51.2 μW/MHz	5.730 MHz or more: 12.5 μW/MHz	Over 5.735 MHz: 2.5 μW/MHz	5.770 MHz or more: 12.5 μW/MHz	5.770 MHz or more: 12.5 μW/MHz																	
W56																																															
20MHz system		40MHz system	80MHz system																																												
DSSS, etc.	OFDM																																														
5.470 MHz or less: 12.5 μW/MHz	5.460 MHz or less: 2.5 μW/MHz	5.460 MHz or less: 12.5 μW/MHz	5.460 MHz or less: 12.5 μW/MHz																																												
	5.460 - 5.470 MHz: 12.5 μW/MHz	5.460 - 5.470 MHz: 90 μW/MHz	5.460 - 5.469.5 MHz: 90 μW/MHz																																												
	5.470 - 5.475 MHz: 12.5 μW/MHz		5.469.5 - 5.470 MHz: 51.2 μW/MHz																																												
5.730 MHz or more: 12.5 μW/MHz	Over 5.735 MHz: 2.5 μW/MHz	5.770 MHz or more: 12.5 μW/MHz	5.770 MHz or more: 12.5 μW/MHz																																												

W52 + W53	W56	* A related value is defined by the E.I.R.P. * Measurement range: 30MHz to 26GHz
160MHz system		
5,099.6 MHz or less : 2.5 μV/MHz	5,419.6 MHz or less : 12.5 μV/MHz	
5,099.6 - 5,150 MHz : 15 μV/MHz	5,419.6 - 5,470 MHz : 50 μV/MHz	
5,350 - 5,400.4 MHz : 15 μV/MHz	5,725 MHz or more : 12.5 μV/MHz	
5,400.4 MHz or more : 2.5 μV/MHz		
5.21GHz & (5.53GHz, 5.61GHz or 5.69GHz)	5.29GHz & (5.53GHz, 5.61GHz or 5.69GHz)	5.63GHz & 5.69GHz
80MHz + 80MHz system (Not adjacent radio)		
5,134.8 MHz or less : 2.5 μV/MHz	5,214.8 MHz or less : 2.5 μV/MHz	5,419.6 MHz or less : 12.5 μV/MHz
5,134.8 - 5,150 MHz : 162.5 μV/MHz	5,214.8 - 5,249 MHz : $10^{-10} \times (f - 5210)^{1.0} \text{ mV/MHz}$	5,419.6 - 5,470 MHz : 50 μV/MHz
5,250 - 5,251 MHz : $10^{-10} \times (f - 5250)^{1.0} \text{ mV/MHz}$	5,249 - 5,250 MHz : $10^{-10} \times (f - 5249)^{1.0} \text{ mV/MHz}$	
5,251 - 5,285.2 MHz : $10^{-10} \times (f - 5251)^{1.0} \text{ mV/MHz}$	5,350 - 5,365.2 MHz : 15 μV/MHz	5,770 MHz or more : 15 μV/MHz
5,285.2 - 5,370 MHz : 2.5 μV/MHz	5,365.2 - 5,410 MHz : 2.5 μV/MHz	
5,370 - 5,454.8 MHz : 2.5 μV/MHz (When used simultaneously with a 5.2GHz band high-power radio station : 12.5 μV/MHz)	5,410 - 5,454.8 MHz : 2.5 μV/MHz	
5,454.8 - 5,470 MHz : 15 μV/MHz (When used simultaneously with a 5.2GHz band high-power radio station : 50 μV/MHz)	5,454.8 - 5,470 MHz : 15 μV/MHz	
5,730 MHz or more : 15 μV/MHz	5,730 MHz or more : 15 μV/MHz	
(*When used 5600MHz)	(*When used 5600MHz)	
5,770 MHz or more : 15 μV/MHz	5,770 MHz or more : 15 μV/MHz	
f = MHz, Difference from 5210 (MHz)	f = MHz, Difference from 5200 (MHz)	

(1) After configuring the spectrum analyzer to [Setting 1], search for spurious emissions from 30 MHz to 12.5 GHz. If the sweep range does not cover the required measurement frequency range then the measurement range will need to be divided into sufficient sections of size [RBW x Sweep Data Points]. If spurious emissions greater than [Limit - 3dB] are found, then more detailed measurements are required, go to step (2)

(2) Configure the spectrum analyzer using [Setting 2] and measure the average signal amplitude.
If the spurious emission is burst type (intermittent), then the average value shall not include signal OFF time.

(3) Calculate the spurious emission value (Calculated Value) using following the formula below:

Calculated Value = (Measured Value using (3) + 15.2dB)
Note: 15.2dB adjustment is derived from the Conversion Factor of RBW
Conversion Factor of RBW = 10 x Log (Reference Bandwidth / RBW of measurement) = 15.2 [dB] Where: Reference Bandwidth = 1 MHz
RBW of measurement = 30 kHz

(4) If the calculated value using (4) is over the Limit (section 6.7), go to (6)

(6) Configure the spectrum analyzer to [Setting 3] then make the following changes:
Frequency: Frequency of spurious emission
Span: 1 MHz

(6) After sweep, send the span data set to the PC

(7) Convert measured data from dBm to Watts

(8) Sum all the data using the formula below. If the sum is within the limit, the test result is Pass, otherwise, Fail

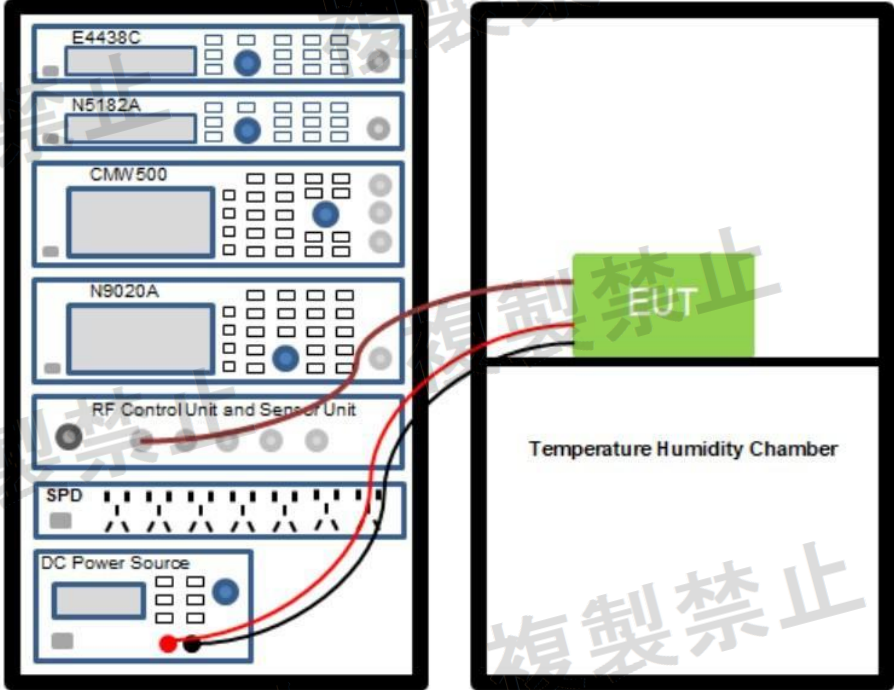
$$P_s = \left(\sum_{i=1}^n E_i \right) \times \frac{S_w}{RBW \times k \times n}$$

Ps: Sum (Watts)
Ei: Measured value at each point in the Span (Watts) Sw: Span (1MHz)
n: Number of measurement points in the Span
k: Correction factor for Equivalent Noise Bandwidth, specific to each spectrum analyzer, check the instrument user guide
RBW: Resolution Bandwidth (MHz).

(9) If the EUT has multiple antennas, measure the spurious emission form each individual antenna using steps (1) through (9)

(10) Convert the individual antenna spurious level measurements (step (10)) from dB to absolute values

(11) Combine (sum) the absolute values of the spurious measurements at each

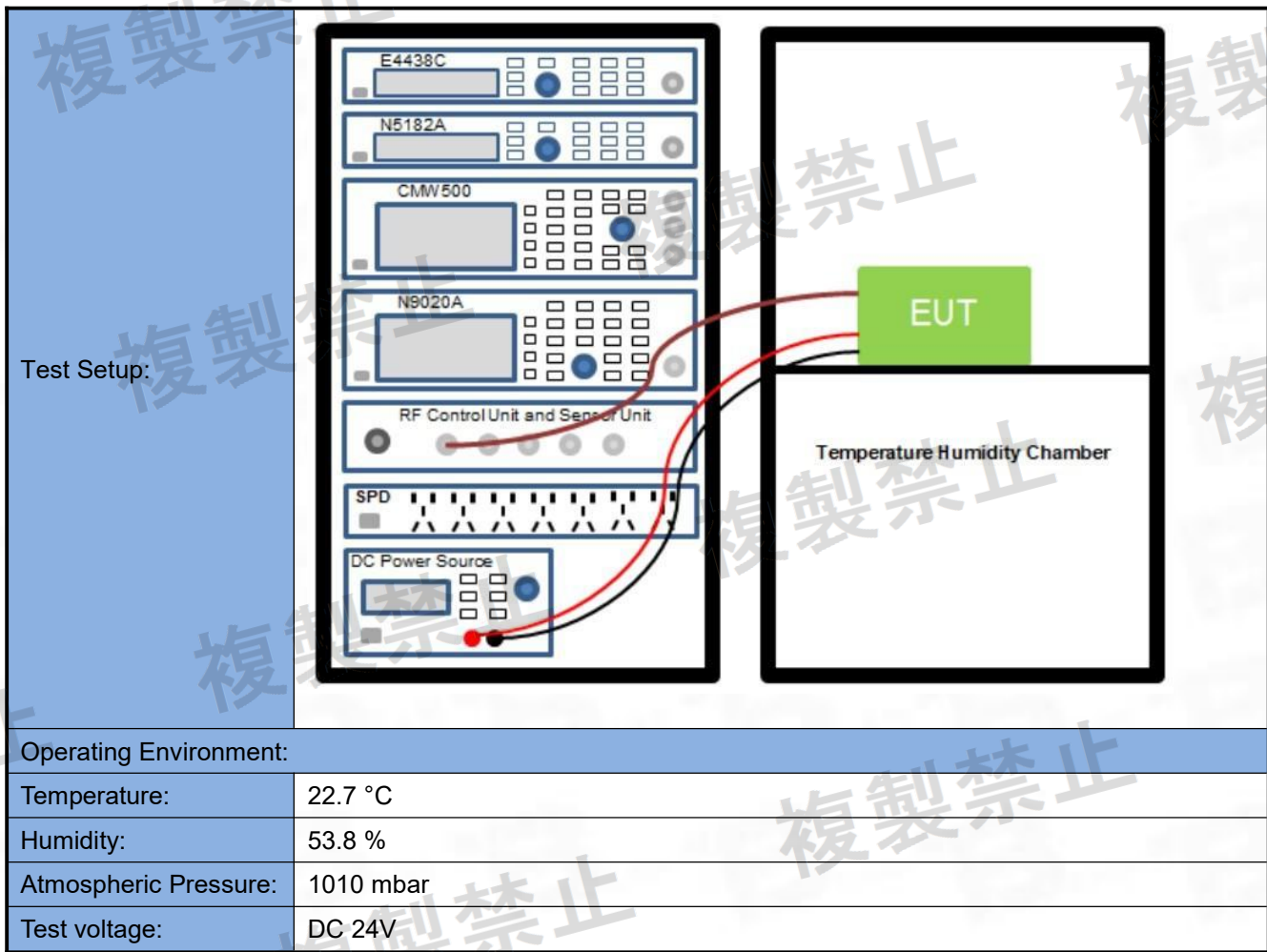
	frequency for each antenna (to create a single composite spectrum of spurious emissions) (12) Ensure that the composite spectrum does not exceed the Limit defined in 6.7 (Technical Standard) (13) Configuring the spectrum analyzer using [Setting 3] and measure the spurious emissions with all the antennas electrically combined
Test Setup:	
Operating Environment:	
Temperature:	24.1 °C
Humidity:	46.1 %
Atmospheric Pressure:	1010 mbar
Test voltage:	DC 24V

5.7.1 Test Data

Please Refer to Appendix for Details.

5.8 Secondary Radiated Emissions

Test Requirement:	Article 2-1, Item 19-3	
Test Method:	[Setting 1]	
	Frequency range:	30 MHz ~ 12.5 GHz
	RBW:	Below 1 GHz:100 kHz
		Above 1 GHz:1 MHz
	VBW:	Below 1 GHz:100 kHz
		Above 1 GHz:1 MHz
	Sweep time:	Auto
	Sweep data points:	1001 or greater
	Detector mode:	Positive peak
	Indication mode:	Max hold
	[Setting 2]	
	Center Frequency:	Frequency of spurious emission found using [Setting 1]
	Span:	0 Hz
	RBW:	Below 1 GHz:100 kHz
		Above 1 GHz:1 MHz
	VBW:	Below 1 GHz:100 kHz
		Above 1 GHz:1 MHz
	Sweep time:	Auto
	Sweep data points:	1001 or greater
	Detector mode:	Sample
Test Limit:	(1) Below 1 GHz: 4 nW (-54dBm) or less (2) Above 1 GHz: 20 nW (-47dBm) or less	
Procedure:	(1) Configure the spectrum analyzer to [Setting 1] and then search for spurious emissions in the range 30 MHz to 12.5GHz. If the sweep range does not cover the required measurement frequency range then the measurement range will need to be divided into sufficient sections of size [RBW x Sweep Data Points]. (2) If spurious emissions are found with an amplitude greater than [Limit - 10dB] then perform further detailed measurements as described in (3) (3) Configure the spectrum analyzer using [Setting 2] and measure the average signal amplitude. If the spurious emission is burst type (intermittent), then the average value shall not include signal OFF time Multiple Antenna Systems If the EUT has multiple antennas then emissions from each antenna shall be measured individually, as described below (4) For each antenna repeat steps (1) through (3). Convert all spurious level measurements from dB to absolute value (5) Combine (sum) the absolute values of the spurious measurements at each frequency for each antenna (to create a single composite spectrum of spurious emissions) (6) Ensure that the composite spectrum does not exceed the Limit	

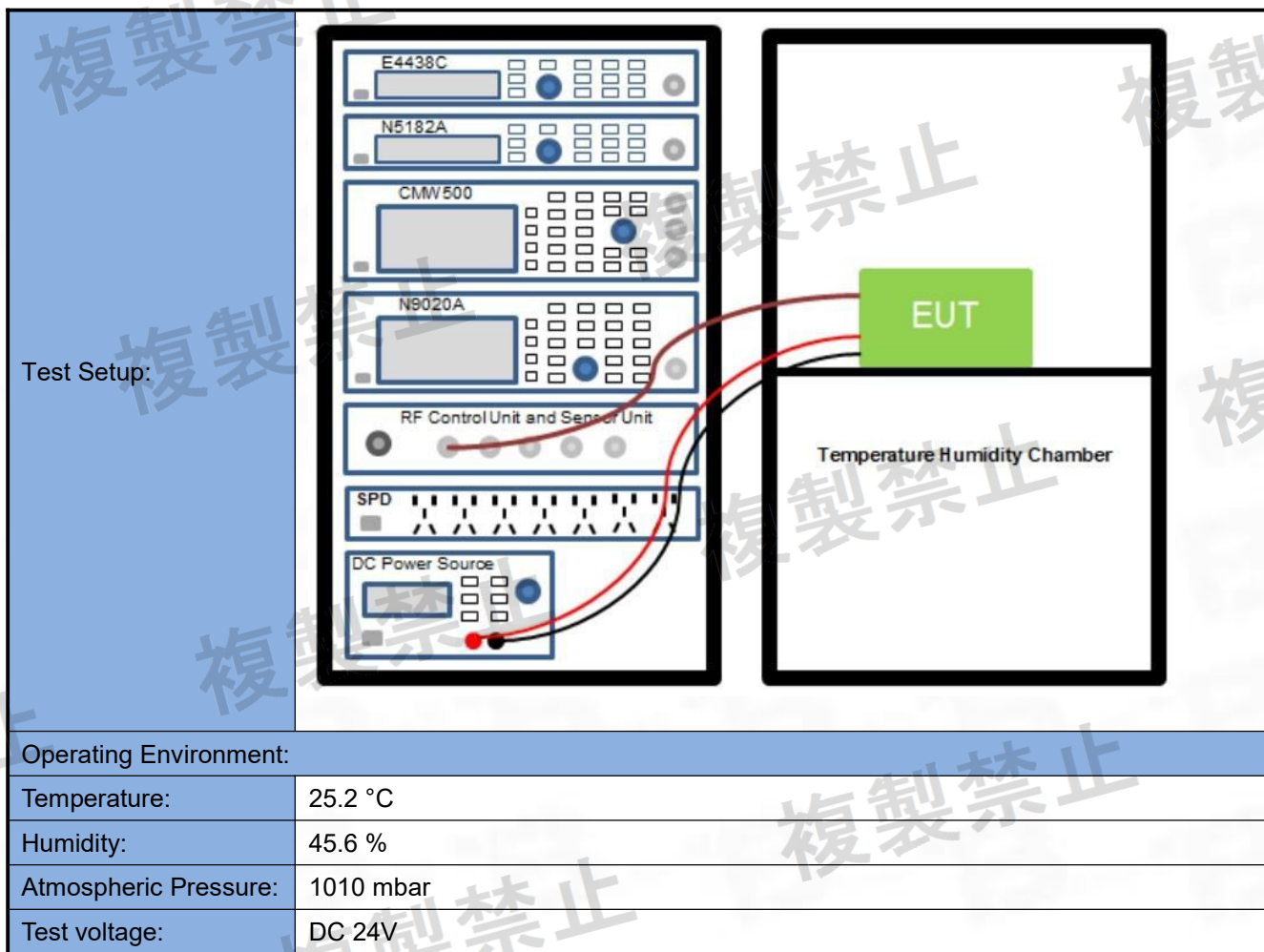


5.8.1 Test Data

Please Refer to Appendix for Details.

5.9 Carrier Sensing

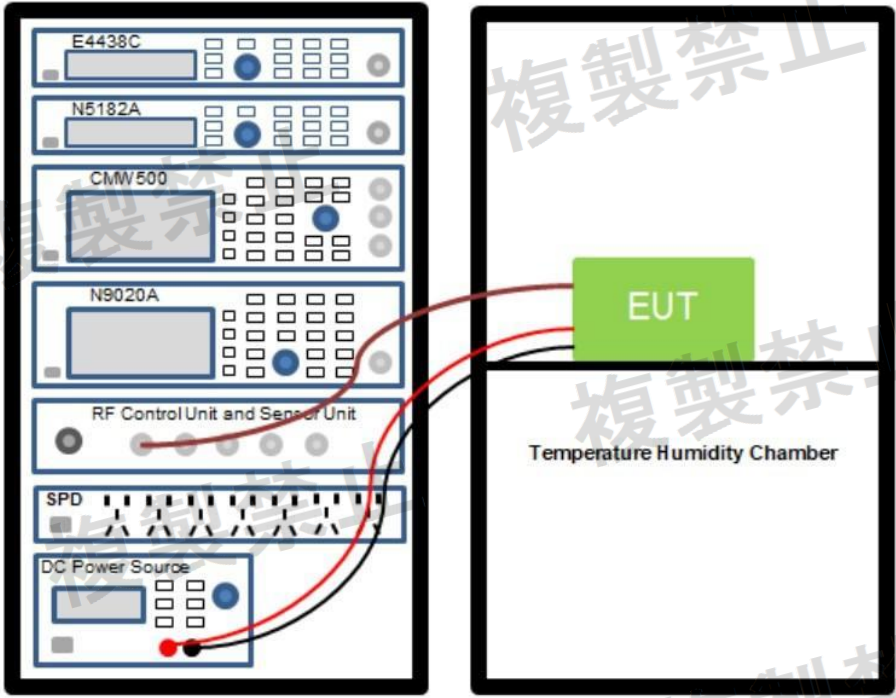
Test Requirement:	Article 2-1, Item 19-3
Test Method:	Signal Generator Settings
	[Setting 1]
	Output frequency: Center of test frequency
	Modulation: Un-modulated, see note
	Output level: The required level at the EUT antenna input, as defined by the applicant
	Note:
	If the EUT's carrier sensing cannot function with an un-modulated signal at the center of the test frequency, then the un-modulated signal can be moved away from the center.
	Spectrum Analyzer Settings
	[Setting 2]
	Frequency: Center of test frequency
	Span: 50 MHz
Test Limit:	RBW: 1 MHz
	VBW: 1 MHz
	Trigger: Free running
	Detector: Positive peak
Test Limit:	Field intensity in the direction of the maximum gain of a receiving antenna : 100mV/m
	*Start transmission after performing a carrier sense. However, when transmission and reception are controlled from other radio equipment, and when the radio equipment which performed transmission resumes transmission within 8 millisecond after a career sense, it can omit performing a career sense.
Procedure:	Testing without a Link Partner (1) Set the spectrum analyzer to [Setting 2] (2) With the signal generator OFF, set the EUT to transmit mode (3) Set the EUT to receive mode (4) First, set the signal generator output ON, then set the EUT to transmit mode and confirm that the EUT does NOT transmit a signal
	Testing with a Link Partner (1) Set the spectrum analyzer to [Setting 2] (2) Set the signal generator output to OFF (3) After establishing a connection between the EUT and the Link Partner, set the EUT to transmit mode (4) Set the EUT to receive mode (5) Set the signal generator output ON, then set the EUT to transmit mode and confirm that the EUT does NOT transmit a signal



5.9.1 Test Data

Please Refer to Appendix for Details.

5.10 Interference Prevention Function

Test Requirement:	Article 2-1, Item 19-3
Test Method:	- Demodulator A device capable of demodulating and displaying identification data transmitted by the EUT. - Link Partner A device capable of transmitting identification data suitable for reception by the EUT.
Test Limit:	The EUT shall support one of the following functions: - Automatic identification transmission - Automatic identification reception
Procedure:	(1) For EUTs capable of automatically transmitting identification data - Transmit identification data from EUT to Demodulator - Confirm identification data is correctly received by Demodulator (2) For EUTs capable of automatically receiving identification data - Transmit identification data from Link Partner to EUT - Confirm communication link is established - Link Partner shall respond by transmitting different identification data back to the EUT - Confirm EUT stops transmitting, or confirm EUT recognizes that the two identification data are different
Test Setup:	
Operating Environment:	
Temperature:	26 °C
Humidity:	54.9 %
Atmospheric Pressure:	1010 mbar
Test voltage:	DC 24V

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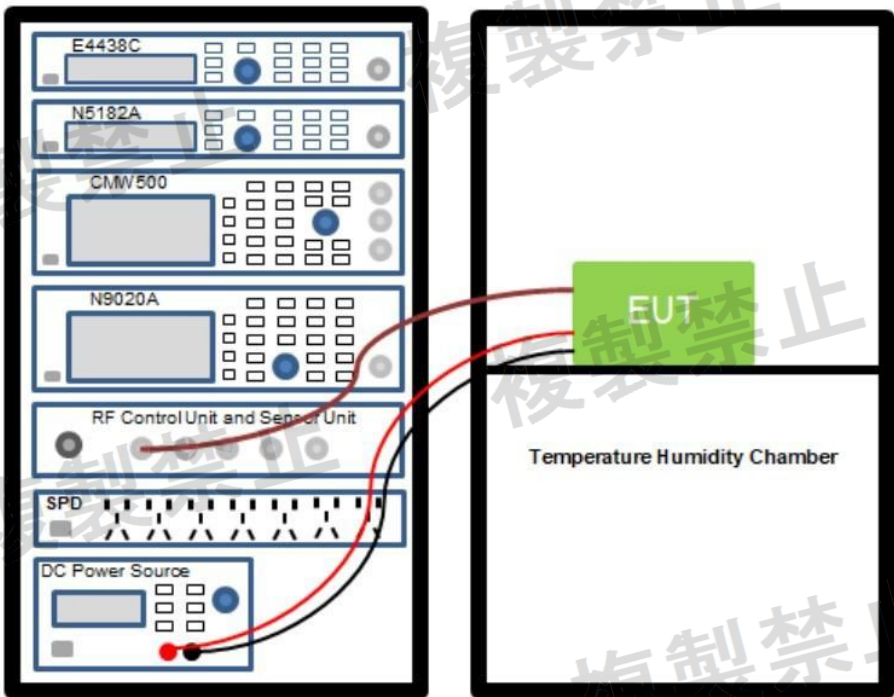
Version: 1/00

5.10.1 Test Data

The detected ID of the device is below:
05:18:65:5a:6c:45

Test result: The device meet the requirements
PASS

5.11 Transmission Burst Length

Test Requirement:	Article 2-1, Item 19-3
Test Method:	Frequency: Center of tested frequency Span: 0 Hz RBW: 1 MHz VBW: 1 MHz Sweep time: Auto Sweep data points: 1001 or greater Detector mode: Sample
Test Limit:	8ms or less
Procedure:	Configure the spectrum analyzer to [Setting 1] and then search the max pulse, and measure the transmission time.
Test Setup:	
Operating Environment:	
Temperature:	23.7 °C
Humidity:	45.2 %
Atmospheric Pressure:	1010 mbar
Test voltage:	DC 24V

5.11.1 Test Data

Please Refer to Appendix for Details.

6 Test Setup Photos

Please refer to Appendix I Test Setup Photos.

7 EUT Constructional Details (EUT Photos)

Please refer to Appendix II External Photos and Appendix III Internal Photos.

Appendix - 5G WIFI

1. Duty Cycle

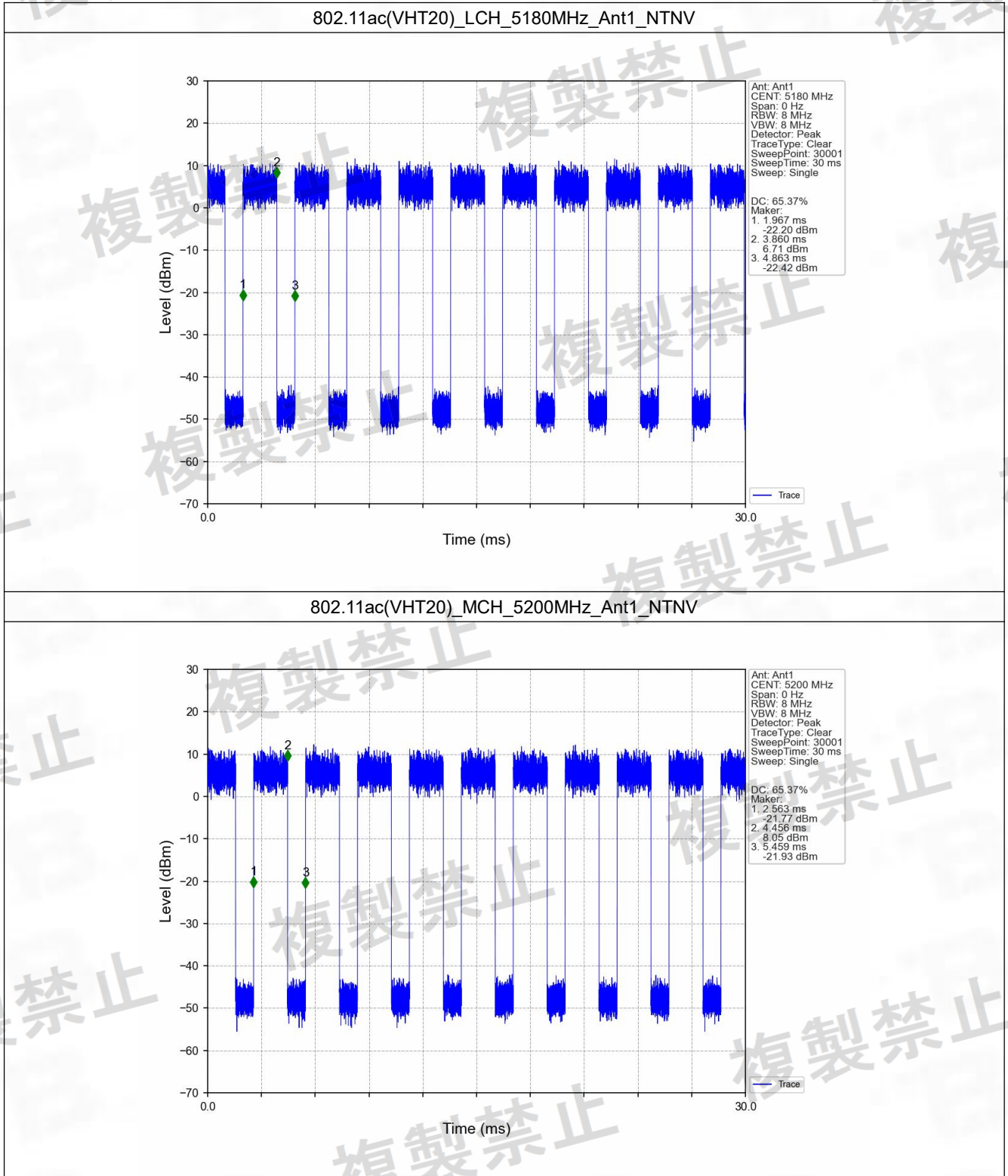
1.1 Test Result

1.1.1 Ant1

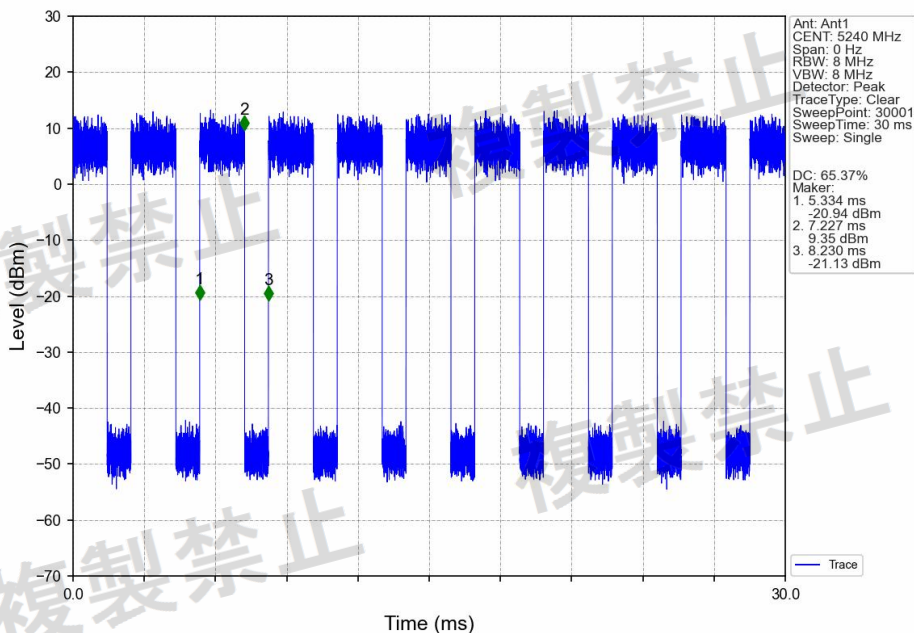
Ant1								
ENV	Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
NTNV	802.11ac (VHT20)	SISO	5180	1.893	2.896	65.37	1.85	0.01
			5200	1.893	2.896	65.37	1.85	0.03
			5240	1.893	2.896	65.37	1.85	0.03
	802.11ac (VHT80)	SISO	5210	0.453	1.457	31.09	5.07	0.02

1.2 Test Graph

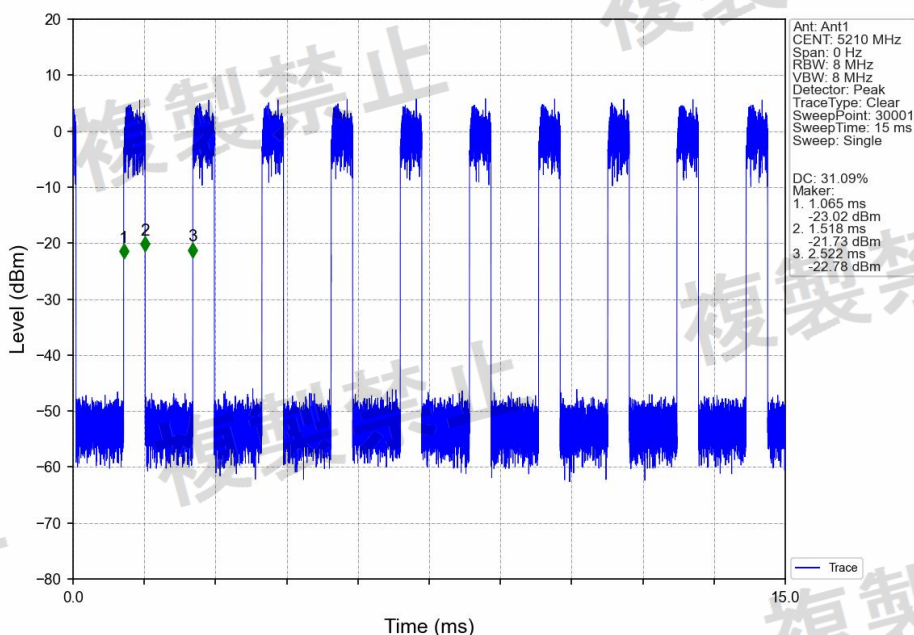
1.2.1 Ant1



802.11ac(VHT20)_HCH_5240MHz_Ant1_NTNV



802.11ac(VHT80)_MCH_5210MHz_Ant1_NTNV



2. Frequency Error

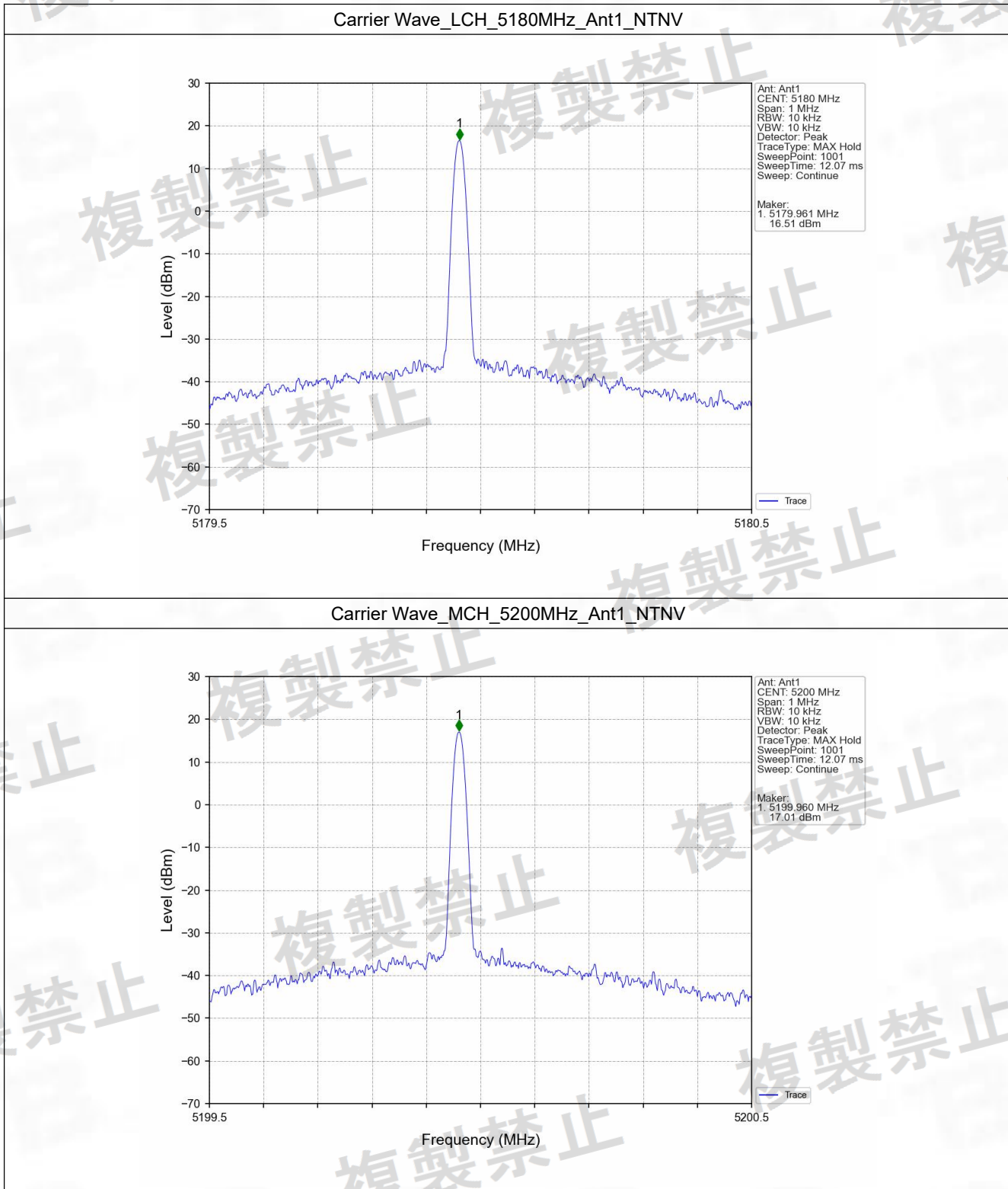
2.1 Test Result

2.1.1 Ant1

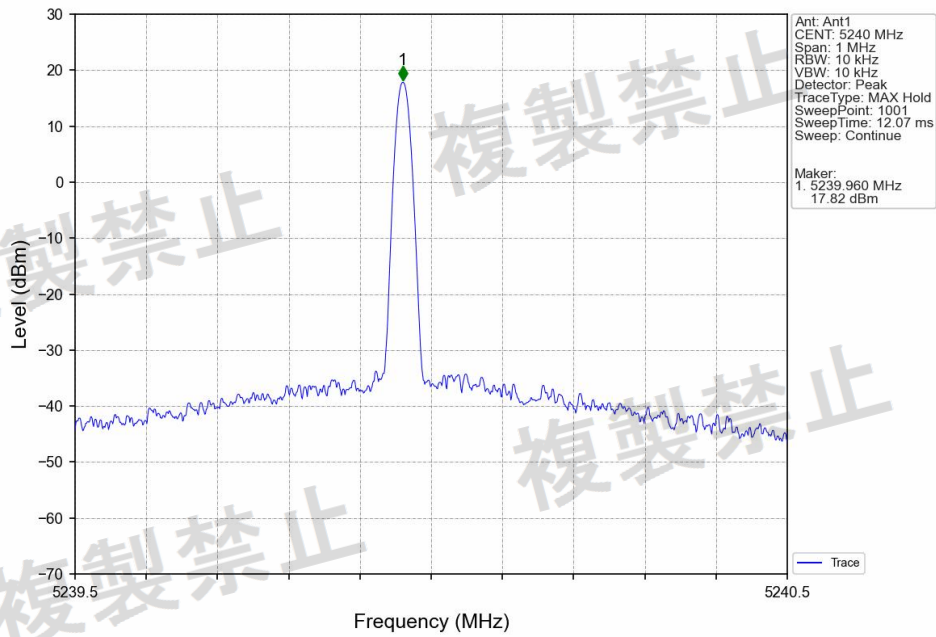
Ant1							
ENV	Mode	TX Type	Frequency (MHz)	Measured Frequency (MHz)	Tolerance (ppm)		Verdict
					Result	Limit	
NTNV	Carrier Wave	SISO	5180	5179.961	-7.53	-20 to 20	Pass
			5200	5199.960	-7.69	-20 to 20	Pass
			5240	5239.960	-7.63	-20 to 20	Pass
			5210	5209.961	-7.49	-20 to 20	Pass

2.2 Test Graph

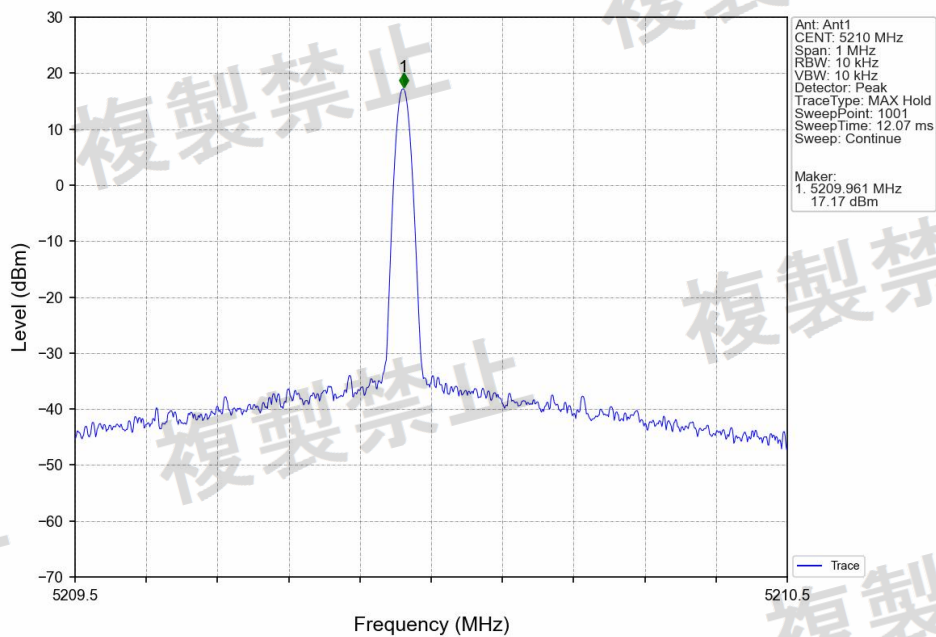
2.2.1 Ant1



Carrier Wave_HCH_5240MHz_Ant1_NTNV



Carrier Wave_MCH_5210MHz_Ant1_NTNV



3. Occupied Bandwidth

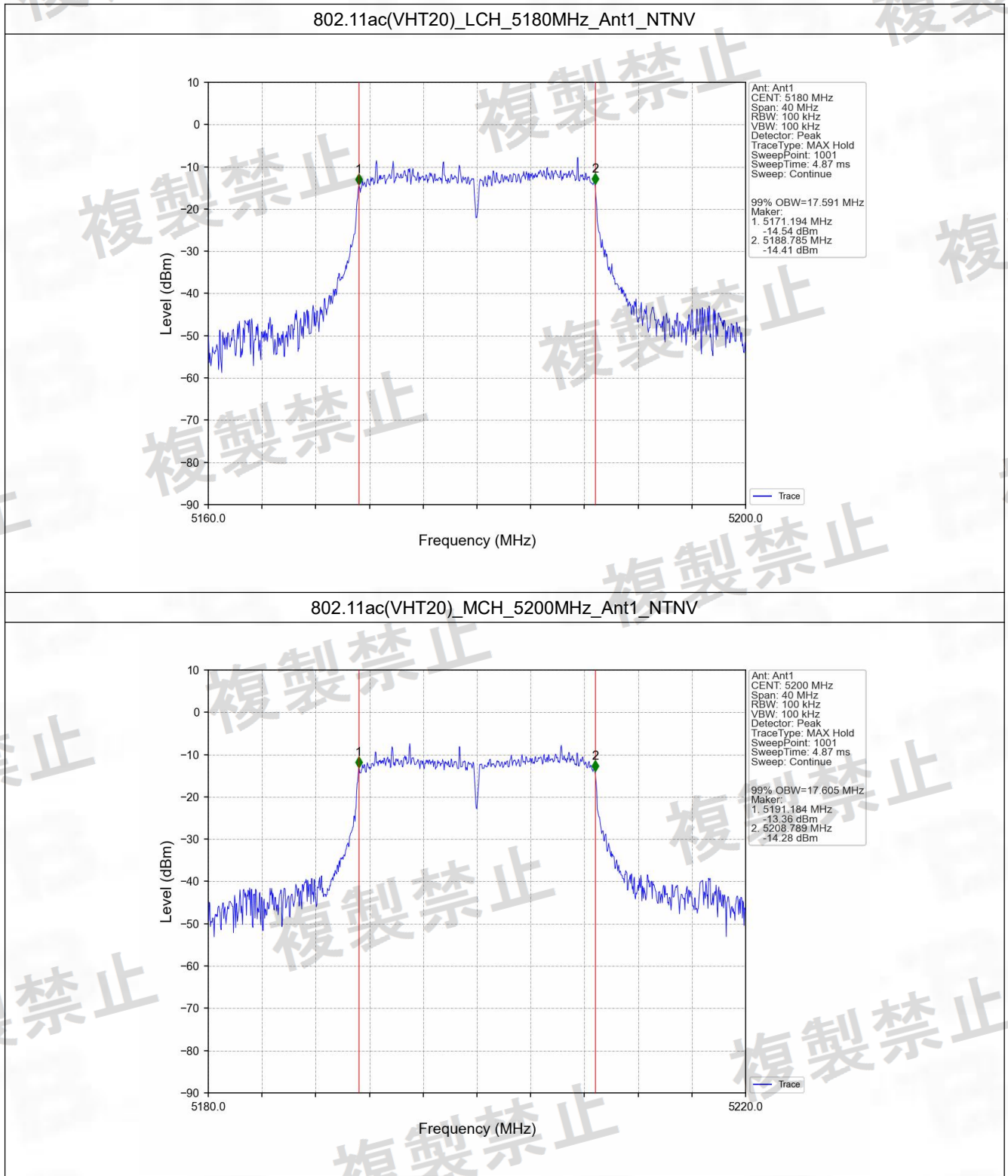
3.1 Test Result

3.1.1 OBW

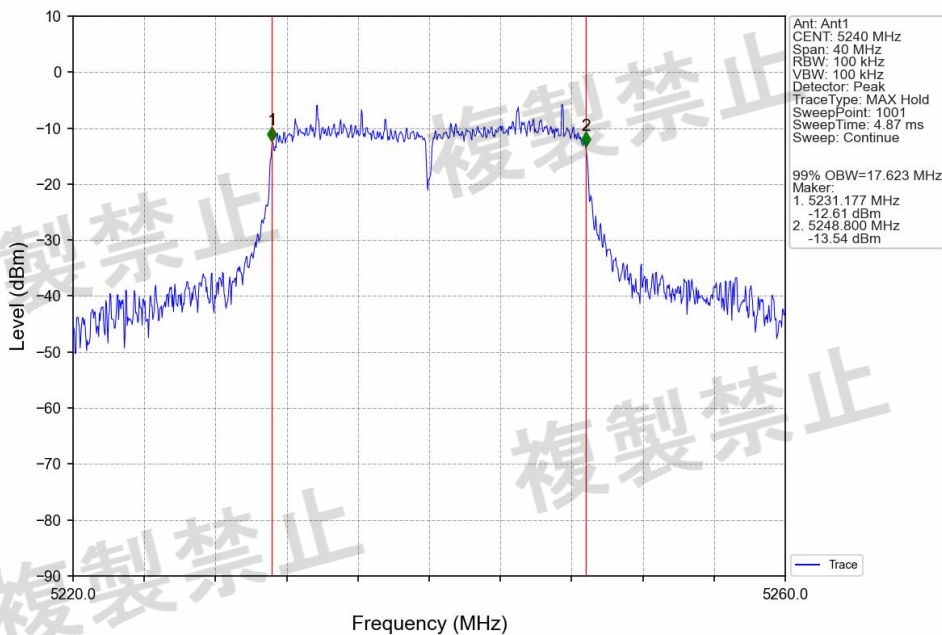
ENV	Mode	TX Type	Frequency (MHz)	99% Occupied Bandwidth (MHz)		Verdict
				ANT1	Limit	
NTNV	802.11ac (VHT20)	SISO	5180	17.591	≤ 20	Pass
			5200	17.605	≤ 20	Pass
			5240	17.623	≤ 20	Pass
	802.11ac (VHT80)	SISO	5210	75.556	≤ 80	Pass

3.2 Test Graph

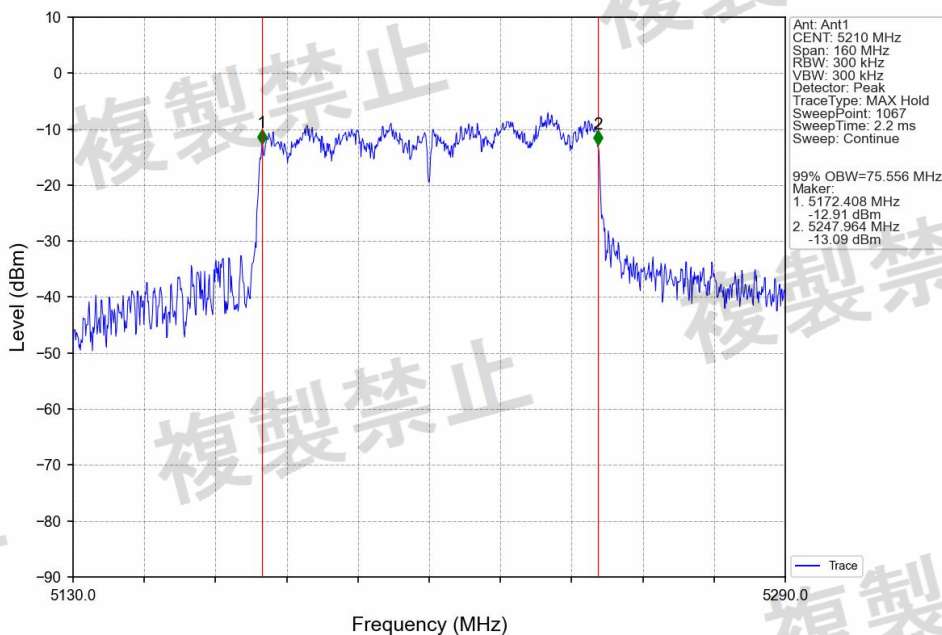
3.2.1 OBW



802.11ac(VHT20)_HCH_5240MHz_Ant1_NTNV



802.11ac(VHT80)_MCH_5210MHz_Ant1_NTNV



4. Antenna Power

4.1 Test Result

4.1.1 Power_NTNV

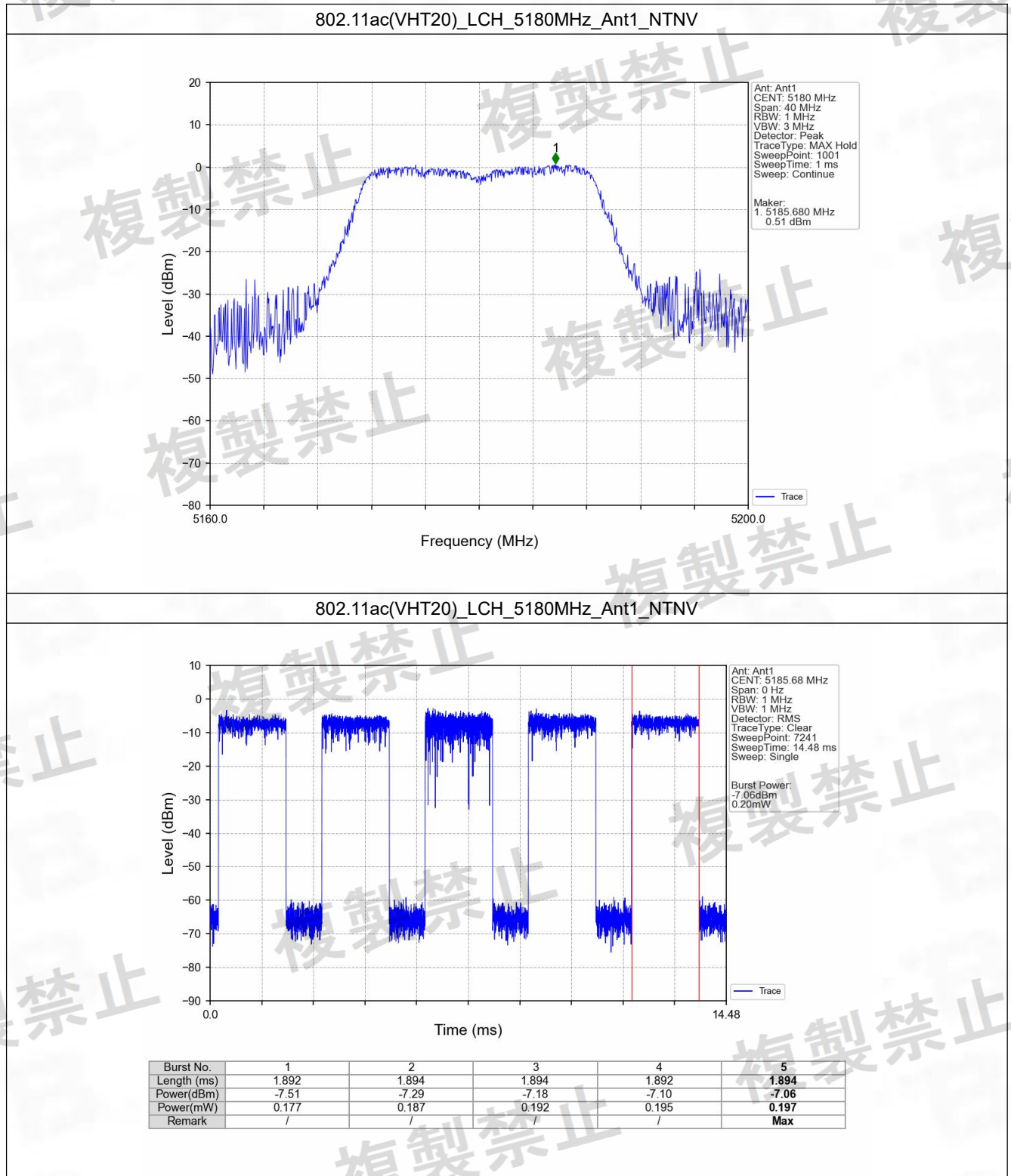
NTNV									
Mode	TX Type	Frequency (MHz)	ANT	Antenna Power (mW/MHz)		Nominal Power (mW/MHz)	Tolerance (%)		Verdict
				Measured	Limit		Measured	Limit	
802.11ac (VHT20)	SISO	5180	1	0.197	≤ 10.00	0.390	-49.49	-80 to 20	Pass
		5200	1	0.228	≤ 10.00	0.390	-41.54	-80 to 20	Pass
		5240	1	0.289	≤ 10.00	0.390	-25.90	-80 to 20	Pass
802.11ac (VHT80)	SISO	5210	1	0.107	≤ 2.50	0.110	-2.73	-80 to 20	Pass

4.1.2 EIRP_NTNV

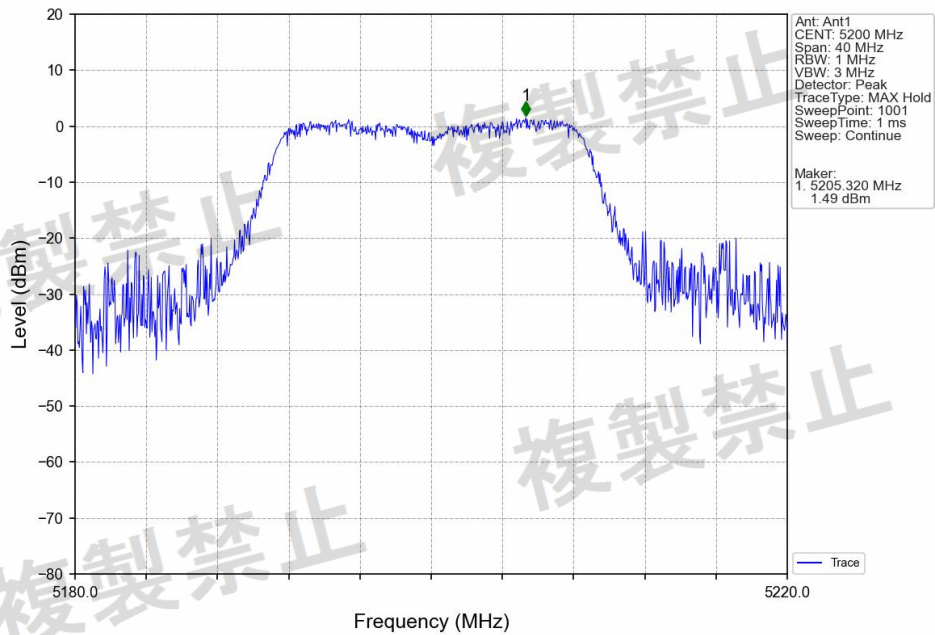
NTNV							
Mode	TX Type	Frequency (MHz)	ANT	Gain (dBi)	EIRP (mW/MHz)		Verdict
					Result	Limit	
802.11ac (VHT20)	SISO	5180	1	3.58	0.45	≤ 10	Pass
		5200	1	3.58	0.52	≤ 10	Pass
		5240	1	3.58	0.66	≤ 10	Pass
802.11ac (VHT80)	SISO	5210	1	3.58	0.24	≤ 2.5	Pass

4.2 Test Graph

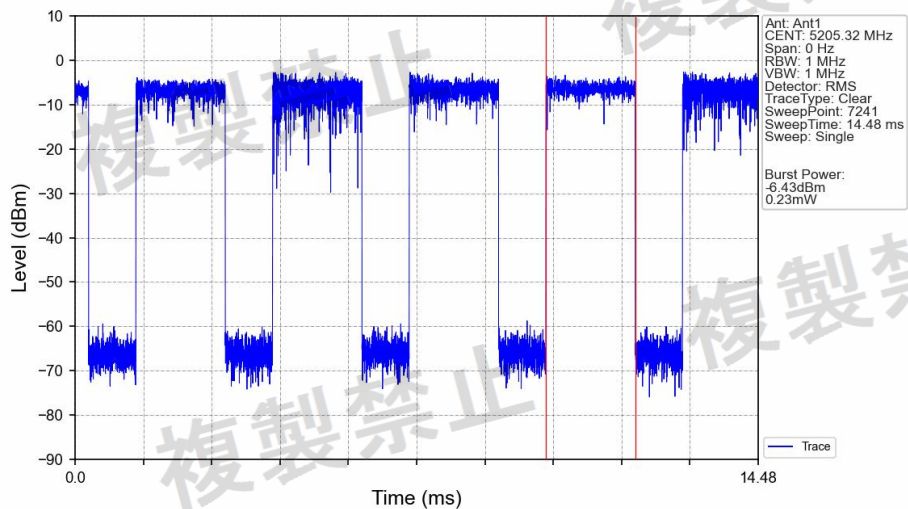
4.2.1 Power_NTNV



802.11ac(VHT20)_MCH_5200MHz_Ant1_NTNV

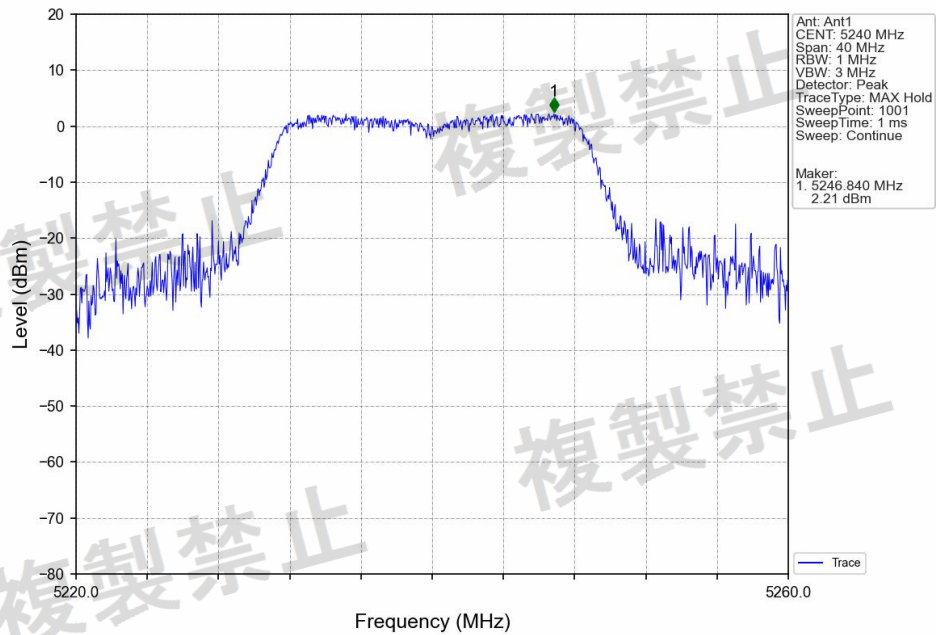


802.11ac(VHT20)_MCH_5200MHz_Ant1_NTNV

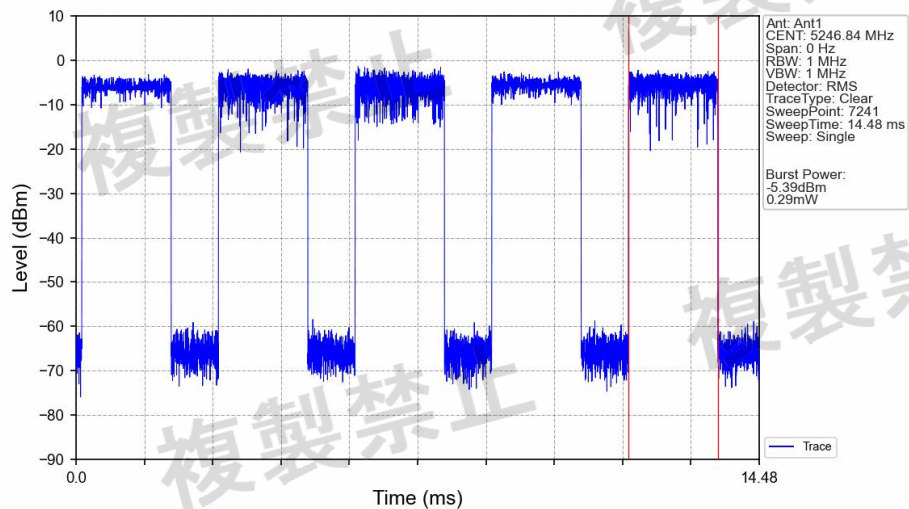


Burst No.	1	2	3	4
Length (ms)	1.894	1.894	1.892	1.894
Power(dBm)	-6.75	-6.58	-6.48	-6.43
Power(mW)	0.212	0.220	0.225	0.228
Remark	/	/	/	Max

802.11ac(VHT20)_HCH_5240MHz_Ant1_NTNV

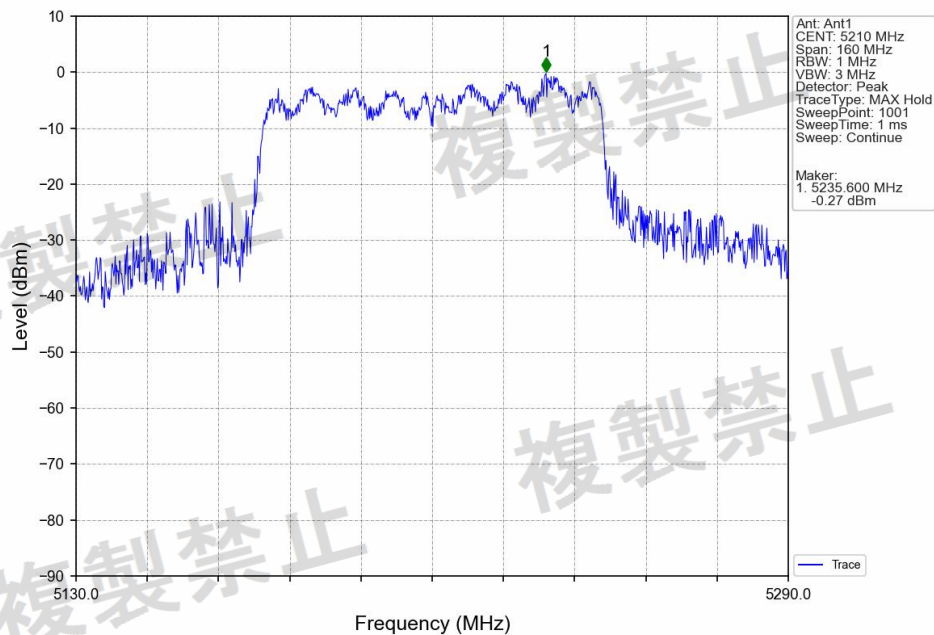


802.11ac(VHT20)_HCH_5240MHz_Ant1_NTNV

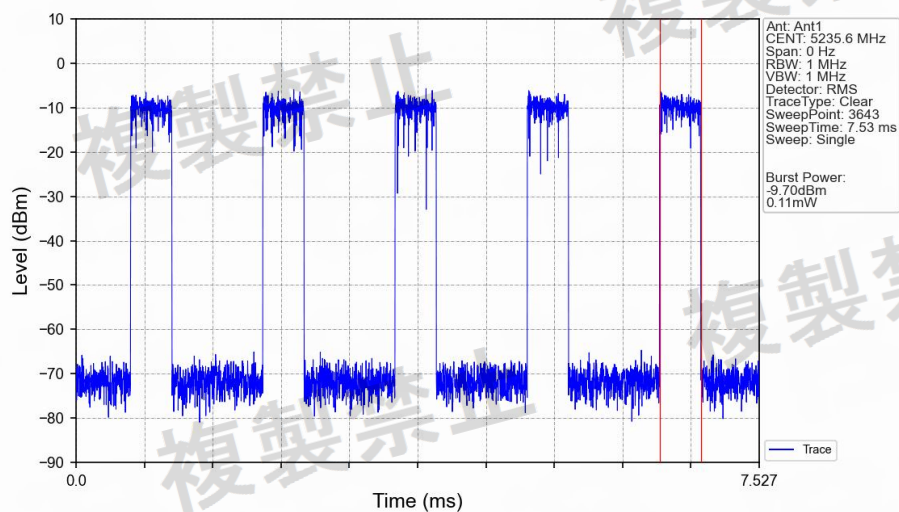


Burst No.	1	2	3	4	5
Length (ms)	1.894	1.894	1.892	1.892	1.894
Power(dBm)	-5.90	-5.64	-5.51	-5.43	-5.39
Power(mW)	0.257	0.273	0.281	0.286	0.289
Remark	/	/	/	/	Max

802.11ac(VHT80)_MCH_5210MHz_Ant1_NTNV



802.11ac(VHT80)_MCH_5210MHz_Ant1_NTNV



Burst No.	1	2	3	4	5
Length (ms)	0.455	0.453	0.453	0.453	0.453
Power(dBm)	-10.09	-9.92	-9.82	-9.74	-9.70
Power(mW)	0.098	0.102	0.104	0.106	0.107
Remark	/	/	/	/	Max

5. Adjacent Channel Leakage Power

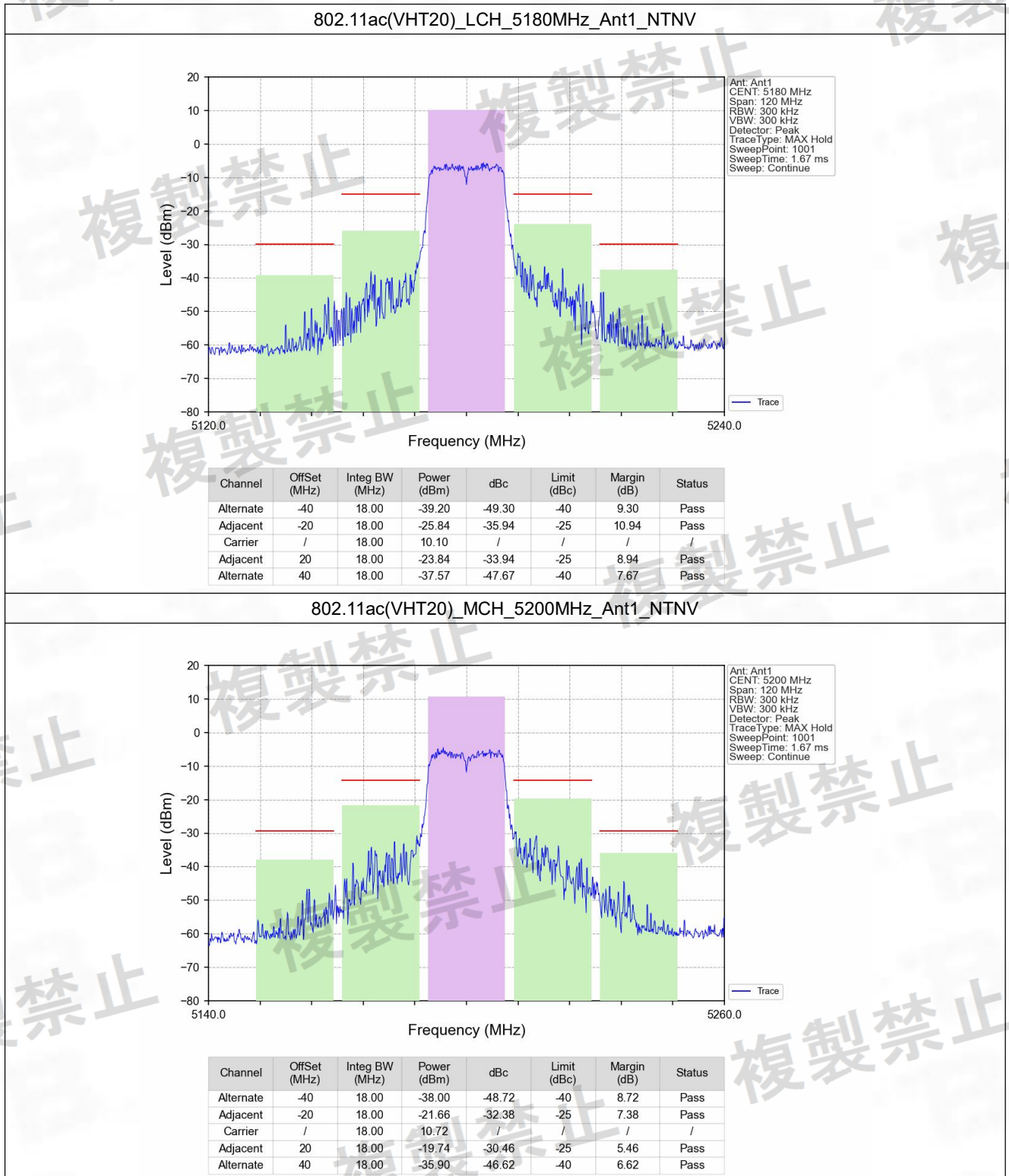
5.1 Test Result

5.1.1 ACLR_NTNV

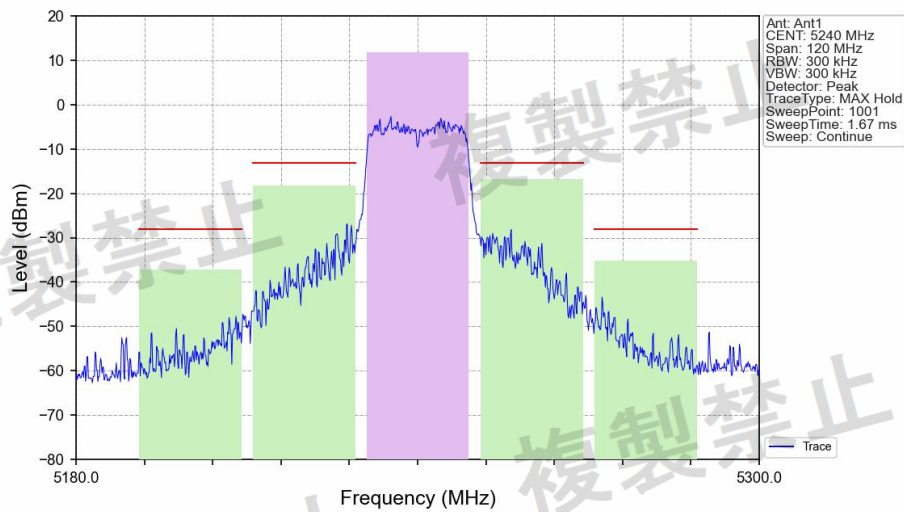
NTNV									
Mode	TX Type	Frequency (MHz)	ANT	Offset (MHz)	Integ BW (MHz)	Power (dBm)	Result (dBc)	Limit (dBc)	Verdict
802.11ac (VHT20)	SISO	5180	1	-40	18	-39.20	-49.30	<=-40	Pass
				-20	18	-25.84	-35.94	<=-25	Pass
				0	18	10.10	/	/	/
				20	18	-23.84	-33.94	<=-25	Pass
				40	18	-37.57	-47.67	<=-40	Pass
		5200	1	-40	18	-38.00	-48.72	<=-40	Pass
				-20	18	-21.66	-32.38	<=-25	Pass
				0	18	10.72	/	/	/
				20	18	-19.74	-30.46	<=-25	Pass
				40	18	-35.90	-46.62	<=-40	Pass
		5240	1	-40	18	-37.13	-49.02	<=-40	Pass
				-20	18	-18.24	-30.13	<=-25	Pass
				0	18	11.89	/	/	/
				20	18	-16.83	-28.72	<=-25	Pass
				40	18	-35.16	-47.05	<=-40	Pass
802.11ac (VHT80)	SISO	5210	1	-80	80	-18.64	-30.78	<=-25	Pass
				0	80	12.14	/	/	/
				80	80	-14.50	-26.64	<=-25	Pass

5.2 Test Graph

5.2.1 ACLR_NTNV

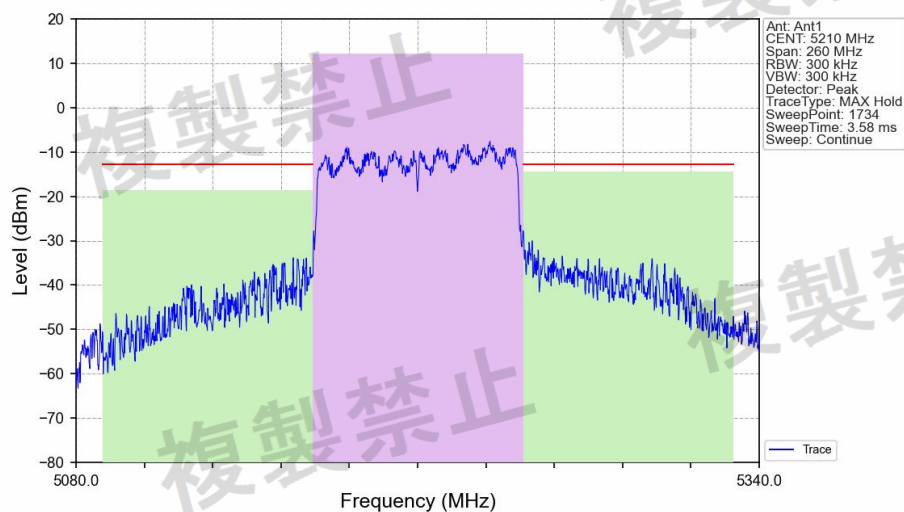


802.11ac(VHT20)_HCH_5240MHz_Ant1_NTNV



Channel	OffSet (MHz)	Integ BW (MHz)	Power (dBm)	dBc	Limit (dBc)	Margin (dB)	Status
Alternate	-40	18.00	-37.13	-49.02	-40	9.02	Pass
Adjacent	-20	18.00	-18.24	-30.13	-25	5.13	Pass
Carrier	/	18.00	11.89	/	/	/	/
Adjacent	20	18.00	-16.83	-28.72	-25	3.72	Pass
Alternate	40	18.00	-35.16	-47.05	-40	7.05	Pass

802.11ac(VHT80)_MCH_5210MHz_Ant1_NTNV



Channel	OffSet (MHz)	Integ BW (MHz)	Power (dBm)	dBc	Limit (dBc)	Margin (dB)	Status
Adjacent	-80	80.00	-18.64	-30.78	-25	5.78	Pass
Carrier	/	80.00	12.14	/	/	/	/
Adjacent	80	80.00	-14.50	-26.64	-25	1.64	Pass

6. Out Of Bands Leakage Power

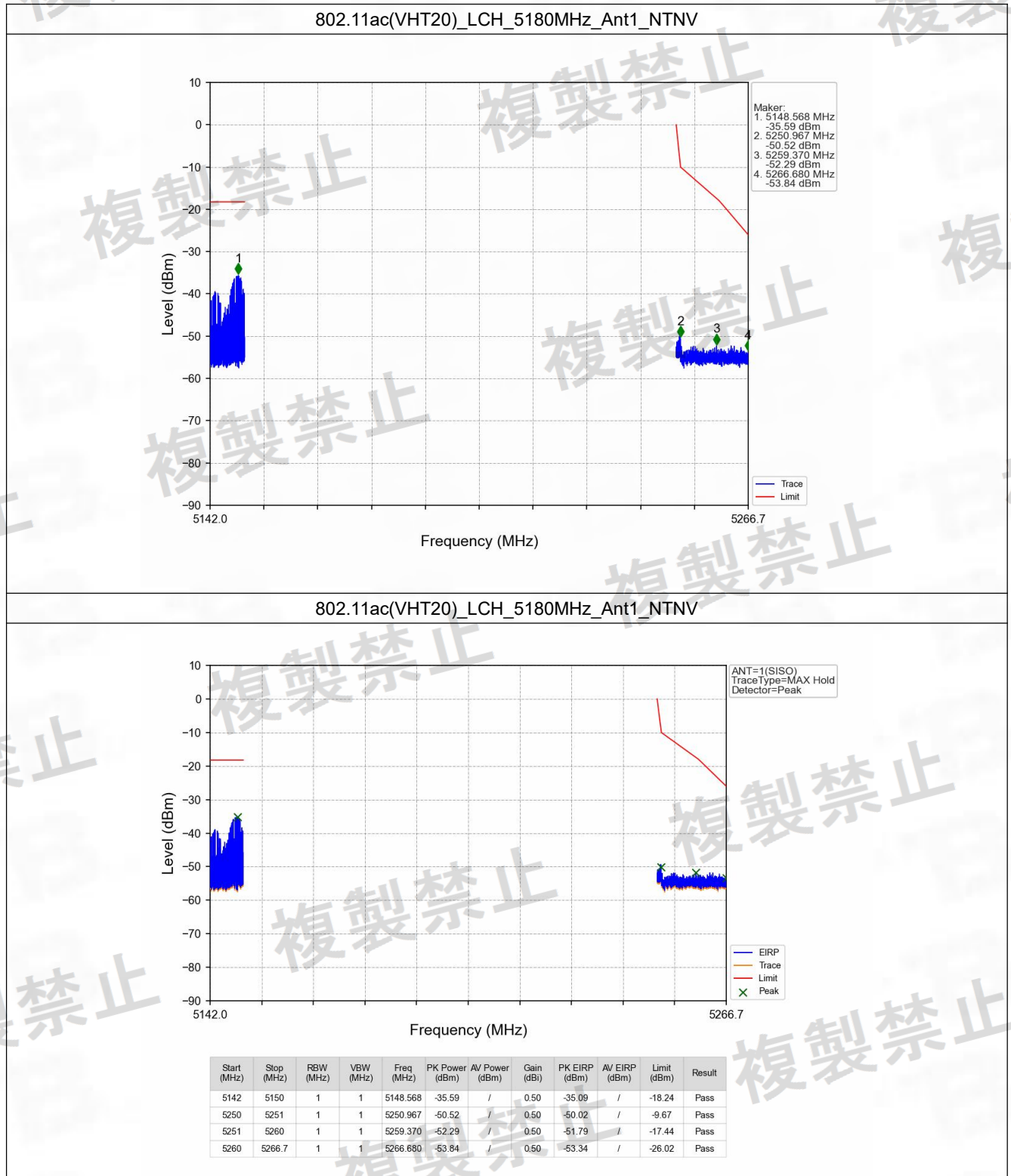
6.1 Test Result

6.1.1 OOB_NTNV

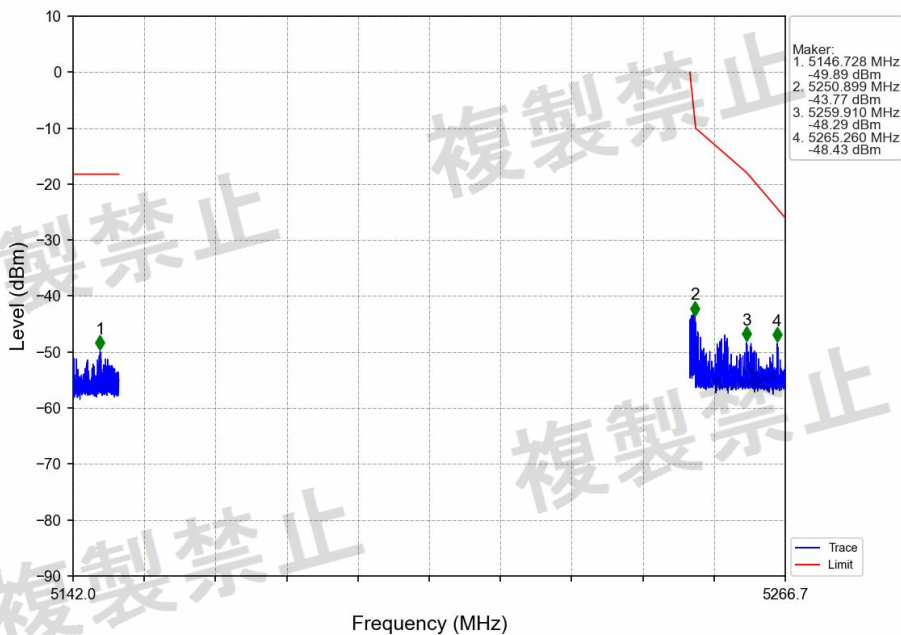
NTNV												
Mode	TX Type	Freq. (MHz)	ANT	Freq. Range		Marker					Limit (uW /MHz)	Verdict
				Start (MHz)	Stop (MHz)	Freq. (MHz)	PK EIRP (dBm /MHz)	PK EIRP (uW /MHz)	AV EIRP (dBm /MHz)	AV EIRP (uW /MHz)		
802.11ac (VHT20)	SISO	5180	1	5142	5150	5148.568	-35.09	0.310	/	/	15	Pass
				5250	5251	5250.967	-50.02	0.010	/	/	107.895	Pass
				5251	5260	5259.37	-51.79	0.007	/	/	18.03	Pass
				5260	5266.7	5266.68	-53.34	0.005	/	/	2.503	Pass
		5200	1	5142	5150	5146.728	-49.39	0.012	/	/	15	Pass
				5250	5251	5250.899	-43.27	0.047	/	/	126.183	Pass
				5251	5260	5259.91	-47.79	0.017	/	/	16.144	Pass
				5260	5266.7	5265.26	-47.93	0.016	/	/	3.705	Pass
		5240	1	5142	5150	5142.416	-53.39	0.005	/	/	15	Pass
				5250	5251	5250.991	-17.73	16.866	/	/	102.094	Pass
				5251	5260	5257.147	-17.98	15.922	/	/	28.418	Pass
				5260	5266.7	5262.332	-22.03	6.266	/	/	8.321	Pass
802.11ac (VHT80)	SISO	5210	1	5123.2	5150	5149.035	-29.56	1.107	/	/	15	Pass
				5250	5251	5250.995	-18.48	14.191	/	/	25.289	Pass
				5251	5290	5251.117	-19.63	10.889	/	/	24.862	Pass
				5290	5296.7	5294.931	-26.27	2.360	/	/	2.818	Pass

6.2 Test Graph

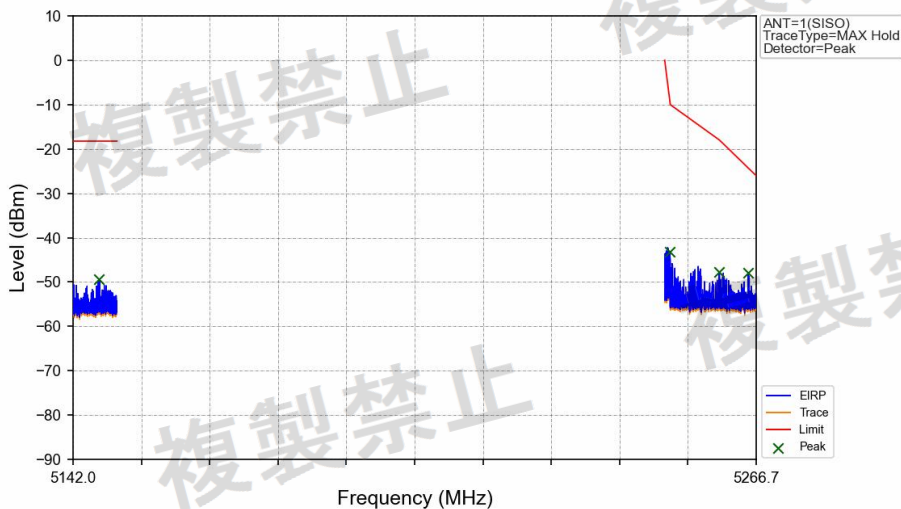
6.2.1 OOB_NTNV



802.11ac(VHT20)_MCH_5200MHz_Ant1_NTNV

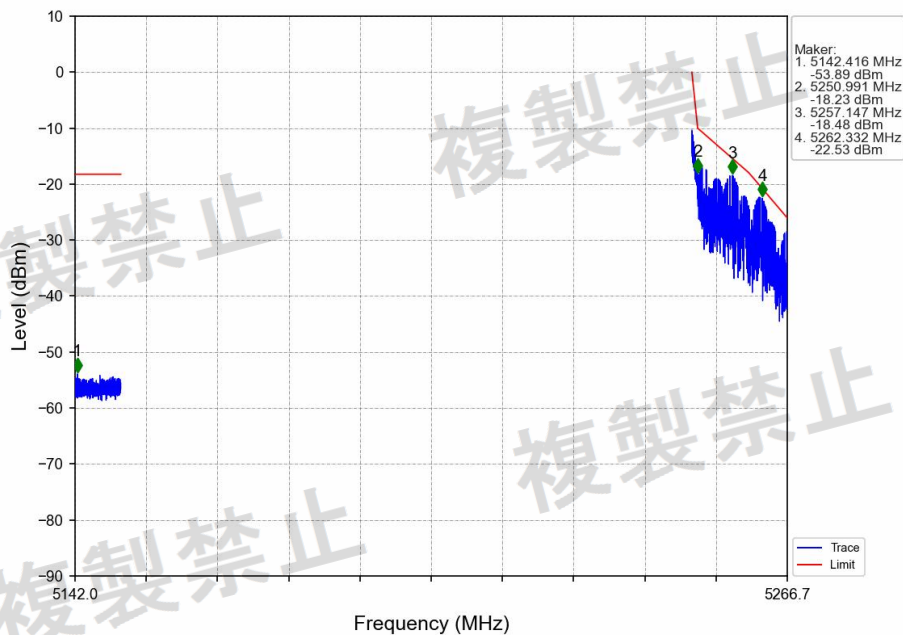


802.11ac(VHT20)_MCH_5200MHz_Ant1_NTNV

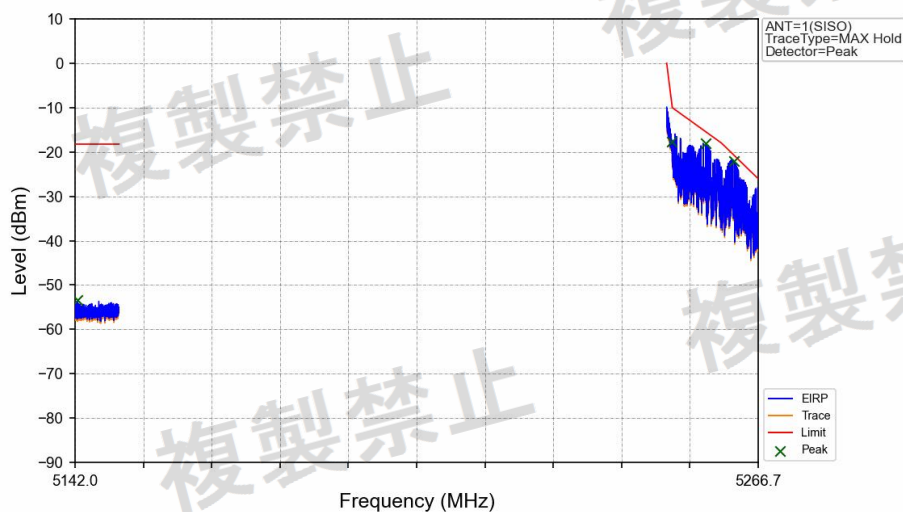


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Gain (dB)	PK EIRP (dBm)	AV EIRP (dBm)	Limit (dBm)	Result
5142	5150	1	1	5146.728	-49.89	/	0.50	-49.39	/	-18.24	Pass
5250	5251	1	1	5250.899	-43.77	/	0.50	-43.27	/	-8.99	Pass
5251	5260	1	1	5259.910	-48.29	/	0.50	-47.79	/	-17.92	Pass
5260	5266.7	1	1	5265.260	-48.43	/	0.50	-47.93	/	-24.31	Pass

802.11ac(VHT20)_HCH_5240MHz_Ant1_NTNV

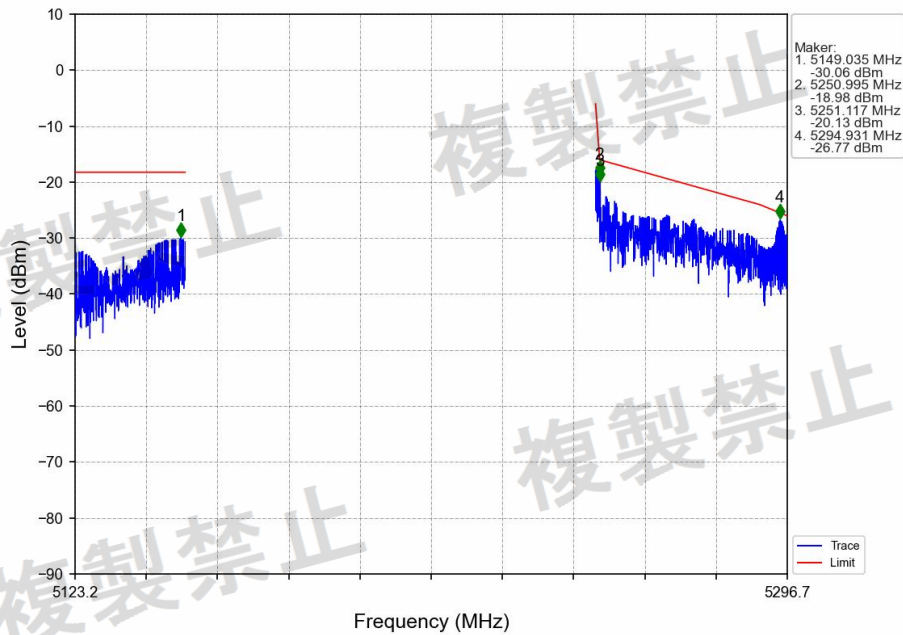


802.11ac(VHT20)_HCH_5240MHz_Ant1_NTNV

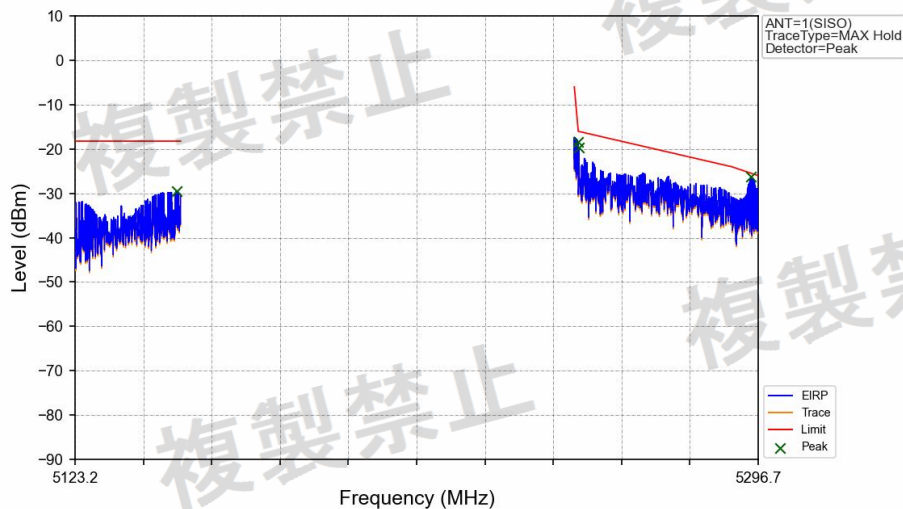


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Gain (dB)	PK EIRP (dBm)	AV EIRP (dBm)	Limit (dBm)	Result
5142	5150	1	1	5142.416	-53.89	/	0.50	-53.39	/	-18.24	Pass
5250	5251	1	1	5250.991	-18.23	/	0.50	-17.73	/	-9.91	Pass
5251	5260	1	1	5257.147	-18.48	/	0.50	-17.98	/	-15.46	Pass
5260	5266.7	1	1	5262.332	-22.53	/	0.50	-22.03	/	-20.8	Pass

802.11ac(VHT80)_MCH_5210MHz_Ant1_NTNV



802.11ac(VHT80)_MCH_5210MHz_Ant1_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Gain (dB)	PK EIRP (dBm)	AV EIRP (dBm)	Limit (dBm)	Result
5123.2	5150	1	1	5149.035	-30.06	/	0.50	-29.56	/	-18.24	Pass
5250	5251	1	1	5250.995	-18.98	/	0.50	-18.48	/	-15.97	Pass
5251	5290	1	1	5251.117	-20.13	/	0.50	-19.63	/	-16.04	Pass
5290	5296.7	1	1	5294.931	-26.77	/	0.50	-26.27	/	-25.5	Pass

7. Transmission Burst Length

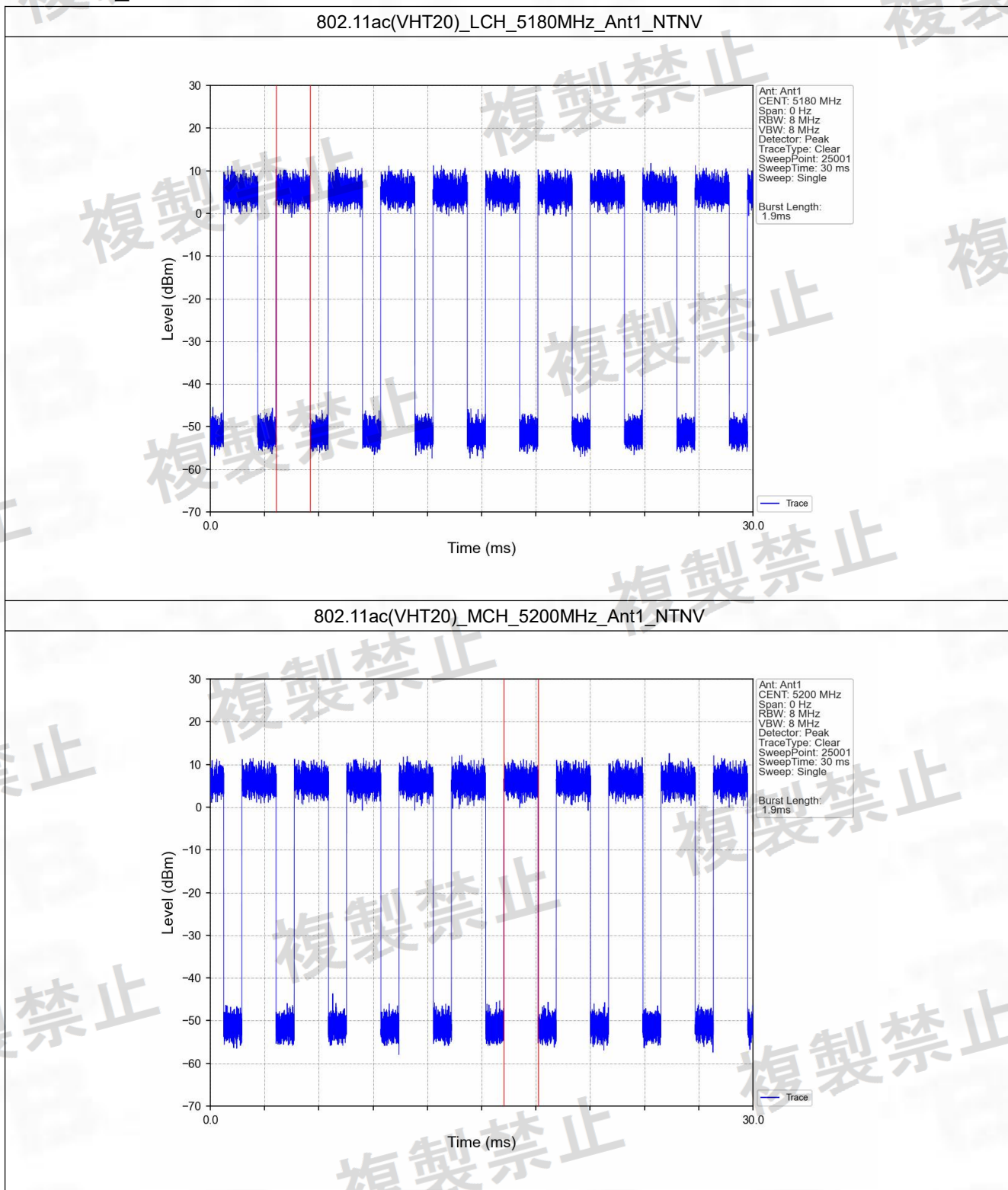
7.1 Test Result

7.1.1 Ant1_NTNV

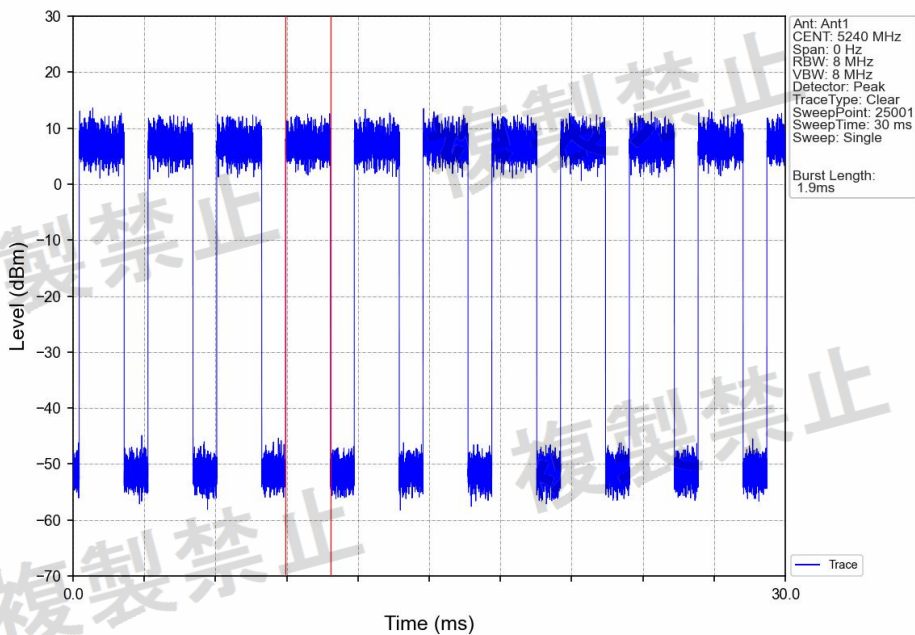
Ant1_NTNV					
Mode	TX Type	Frequency (MHz)	Burst Length (ms)		Verdict
			Result	Limit	
802.11ac (VHT20)	SISO	5180	1.896	<=8	Pass
		5200	1.896	<=8	Pass
		5240	1.896	<=8	Pass
802.11ac (VHT80)	SISO	5210	0.455	<=8	Pass

7.2 Test Graph

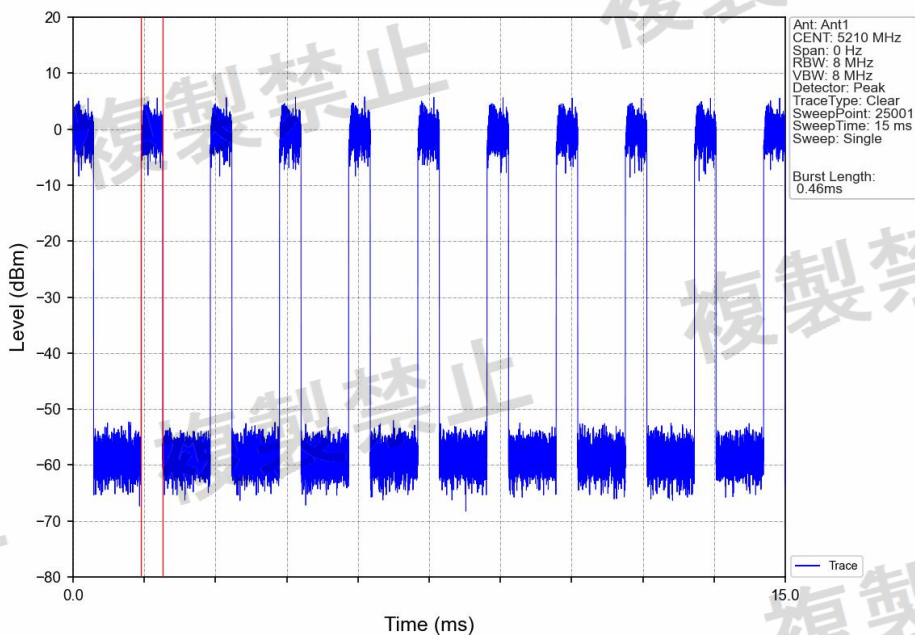
7.2.1 Ant1_NTNV



802.11ac(VHT20)_HCH_5240MHz_Ant1_NTNV



802.11ac(VHT80)_MCH_5210MHz_Ant1_NTNV



8. Spurious Emission Intensity

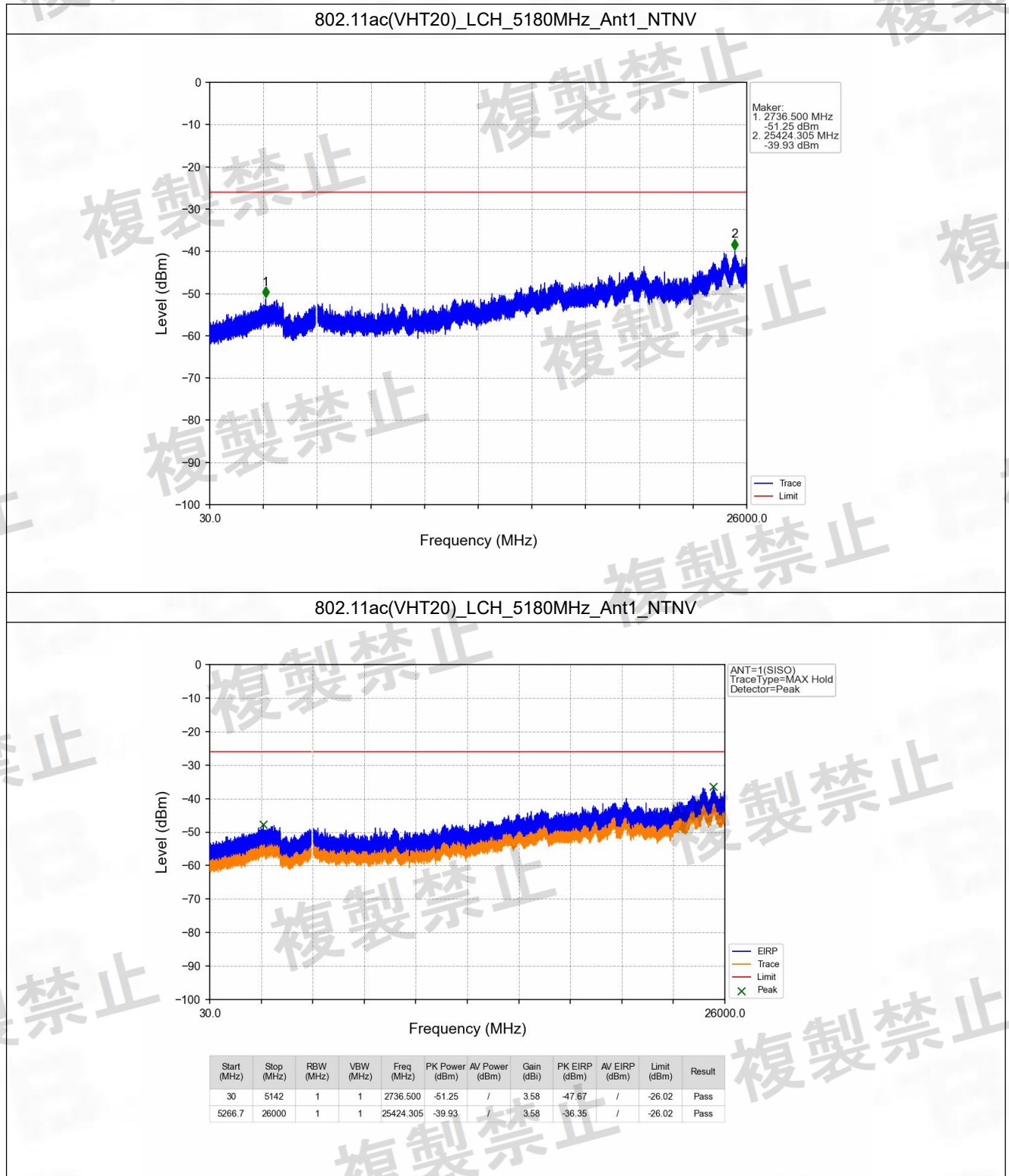
8.1 Test Result

8.1.1 TxSe_NTNV

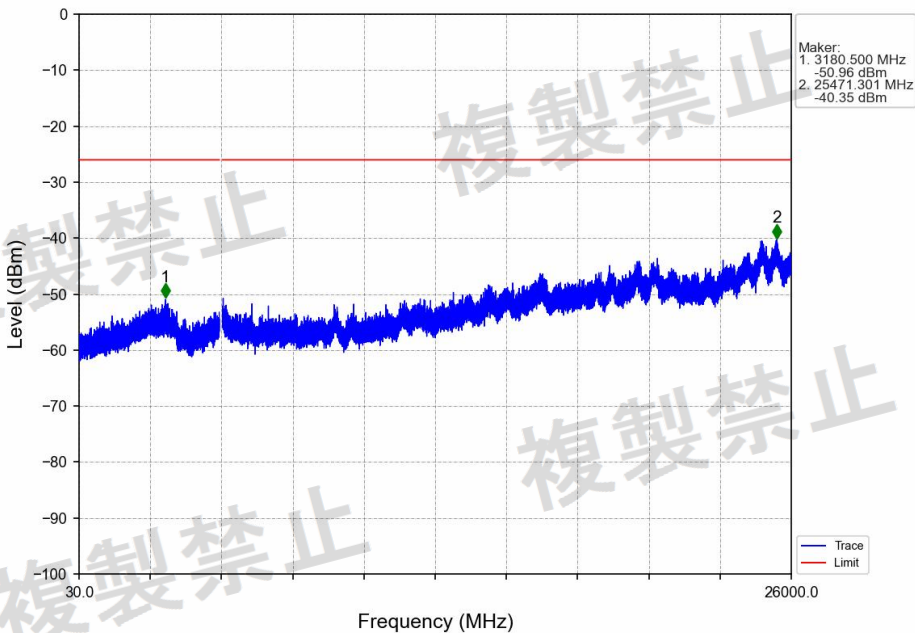
NTNV												
Mode	TX Type	Freq. (MHz)	ANT	Freq. Range		Marker					Limit (uW /MHz)	Verdict
				Start (MHz)	Stop (MHz)	Freq. (MHz)	PK EIRP (dBm /MHz)	PK EIRP (uW /MHz)	AV EIRP (dBm /MHz)	AV EIRP (uW /MHz)		
802.11ac (VHT20)	SISO	5180	1	30	5142	2736.5	-47.67	0.017	/	/	2.5	Pass
				5266.7	26000	25424.305	-36.35	0.232	/	/	2.5	Pass
		5200	1	30	5142	3180.5	-47.38	0.018	/	/	2.5	Pass
				5266.7	26000	25471.301	-36.77	0.210	/	/	2.5	Pass
		5240	1	30	5142	2697	-47.01	0.020	/	/	2.5	Pass
				5266.7	26000	5267.391	-32.76	0.530	/	/	2.5	Pass
802.11ac (VHT80)	SISO	5210	1	30	5123.2	5123.2	-39.35	0.116	/	/	2.5	Pass
				5296.7	26000	5300.151	-23.66	4.305	-42.55	0.056	2.5	Pass

8.2 Test Graph

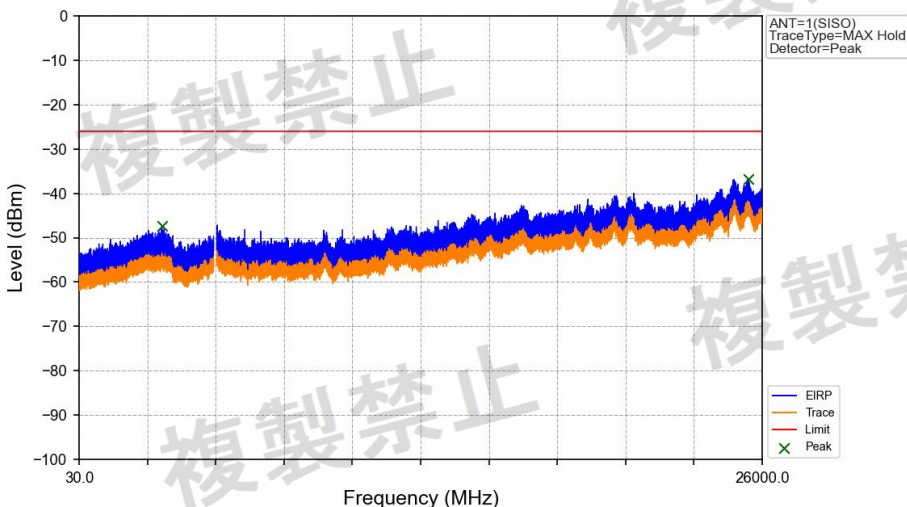
8.2.1 TxSe_NTNV



802.11ac(VHT20)_MCH_5200MHz_Ant1_NTNV

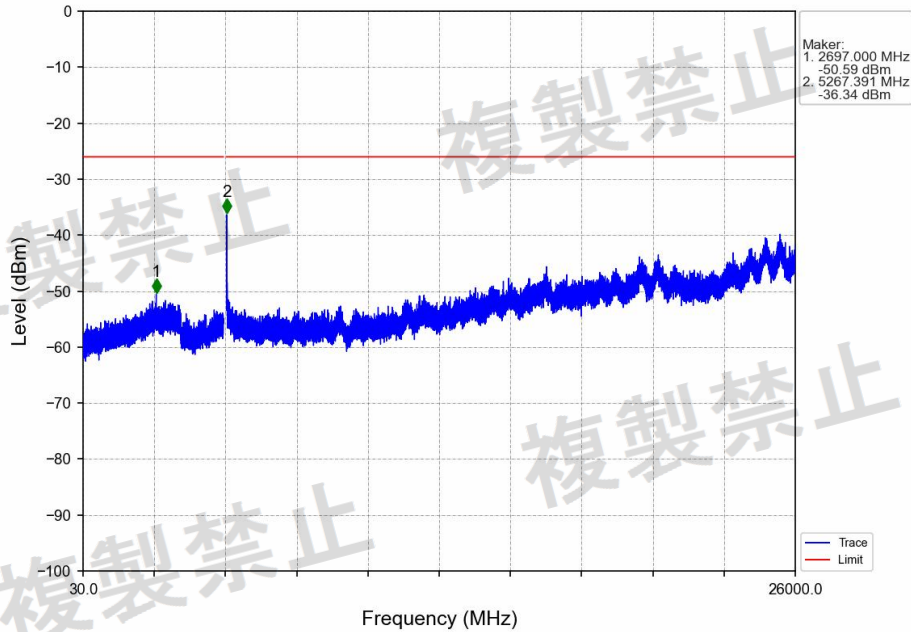


802.11ac(VHT20)_MCH_5200MHz_Ant1_NTNV

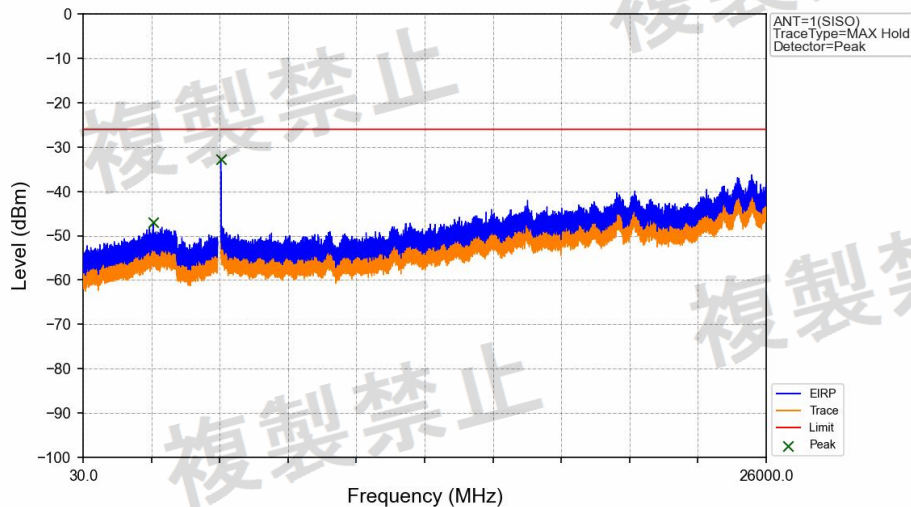


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Gain (dBi)	PK EIRP (dBm)	AV EIRP (dBm)	Limit (dBm)	Result
30	5142	1	1	3180.500	-50.96	/	3.58	-47.38	/	-26.02	Pass
5266.7	26000	1	1	25471.301	-40.35	/	3.58	-36.77	/	-26.02	Pass

802.11ac(VHT20)_HCH_5240MHz_Ant1_NTNV

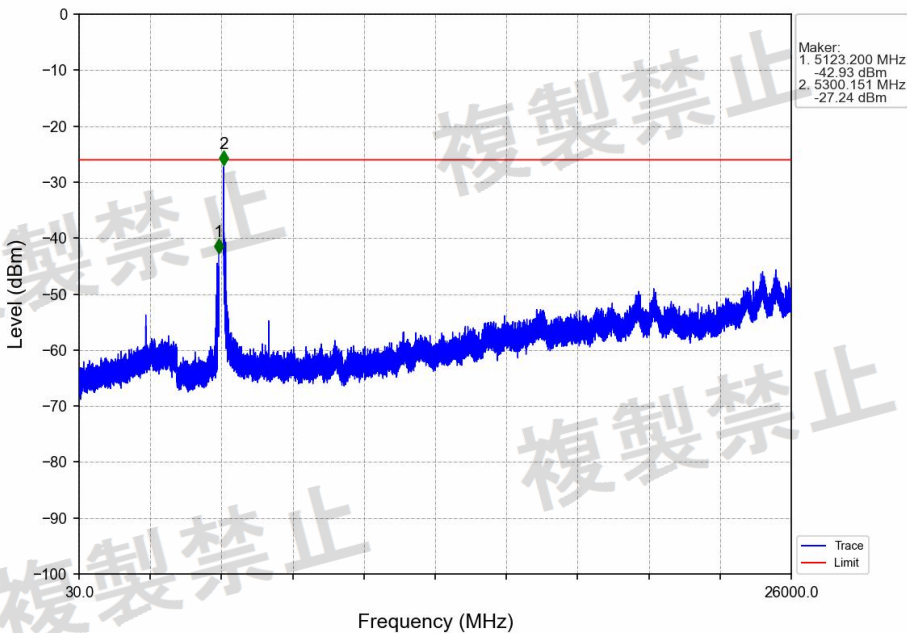


802.11ac(VHT20)_HCH_5240MHz_Ant1_NTNV

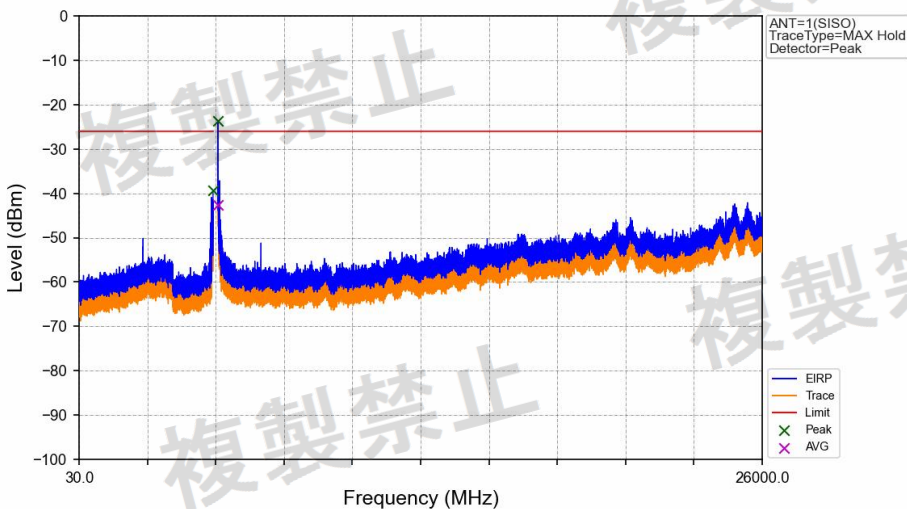


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Gain (dBi)	PK EIRP (dBm)	AV EIRP (dBm)	Limit (dBm)	Result
30	5142	1	1	2697.000	-50.59	/	3.58	-47.01	/	-26.02	Pass
5266.7	26000	1	1	5267.391	-36.34	/	3.58	-32.76	/	-26.02	Pass

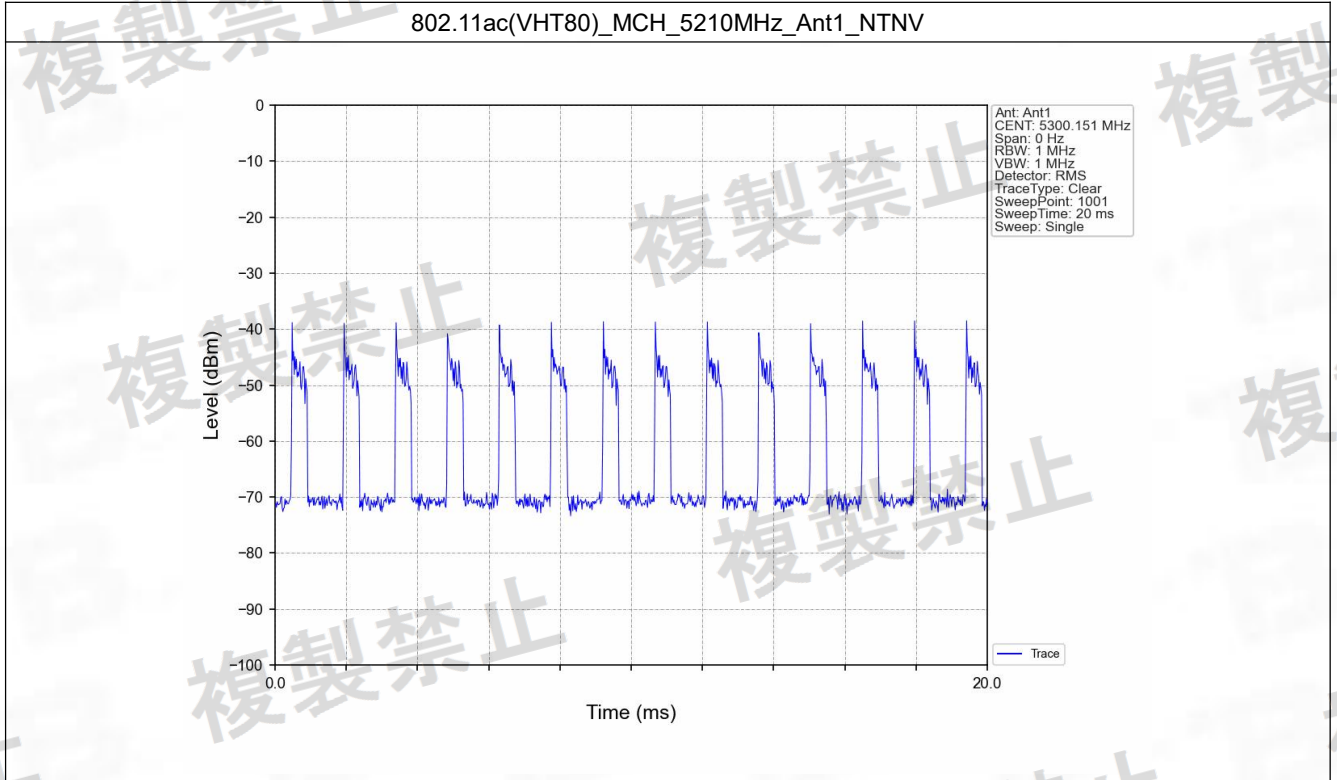
802.11ac(VHT80)_MCH_5210MHz_Ant1_NTNV



802.11ac(VHT80)_MCH_5210MHz_Ant1_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Gain (dBi)	PK EIRP (dBm)	AV EIRP (dBm)	Limit (dBm)	Result
30	5123.2	1	1	5123.200	-42.93	/	3.58	-39.35	/	-26.02	Pass
5296.7	26000	1	1	5300.151	-27.24	-46.13	3.58	-23.66	-42.55	-26.02	Pass



9. Secondary Radiated Emission

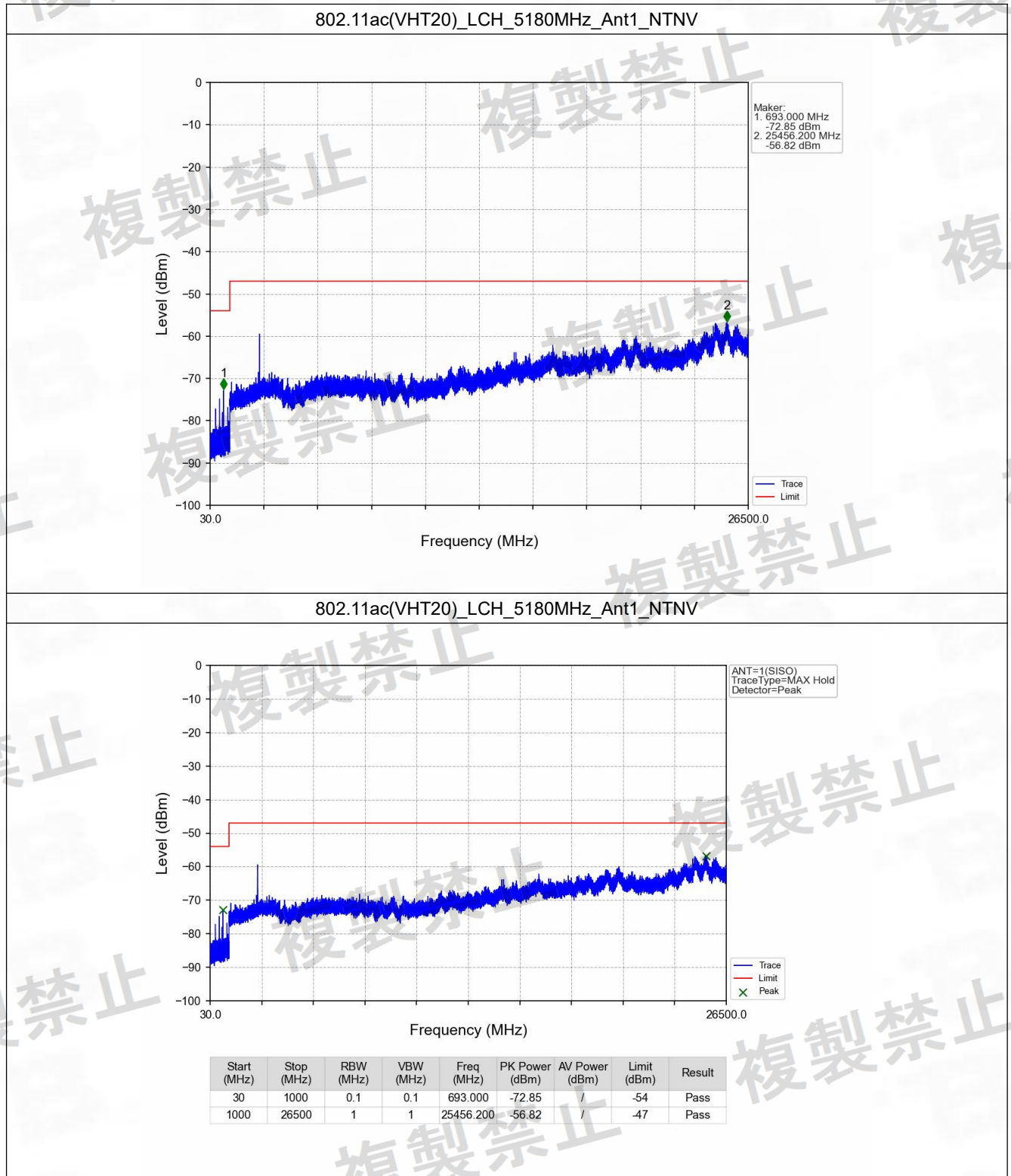
9.1 Test Result

9.1.1 RxSe_NTNV

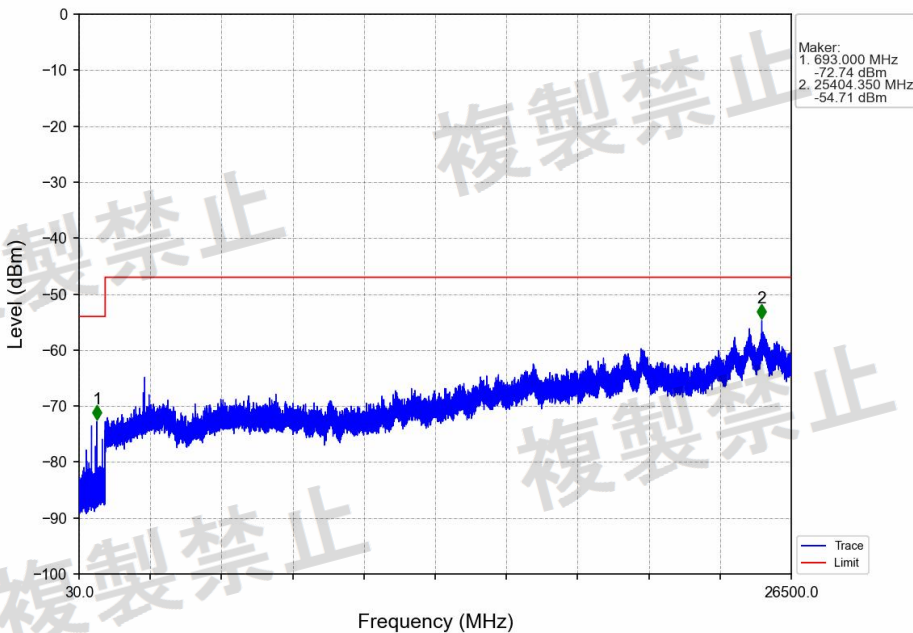
NTNV												
Mode	TX Type	Freq. (MHz)	ANT	Freq. Range		Marker					Limit (nW)	Verdict
				Start (MHz)	Stop (MHz)	Freq. (MHz)	PK Power (dBm)	PK Power (nW)	AV Power (dBm)	AV Power (nW)		
802.11ac (VHT20)	SISO	5180	1	30	1000	693	-72.85	0.052	/	/	4	Pass
				1000	26500	25456.2	-56.82	2.080	/	/	20	Pass
		5200	1	30	1000	693	-72.74	0.053	/	/	4	Pass
				1000	26500	25404.35	-54.71	3.381	/	/	20	Pass
		5240	1	30	1000	693	-72.89	0.051	/	/	4	Pass
				1000	26500	24910.5	-56.74	2.118	/	/	20	Pass
802.11ac (VHT80)	SISO	5210	1	30	1000	693	-72.96	0.051	/	/	4	Pass
				1000	26500	25451.95	-56.18	2.410	/	/	20	Pass

9.2 Test Graph

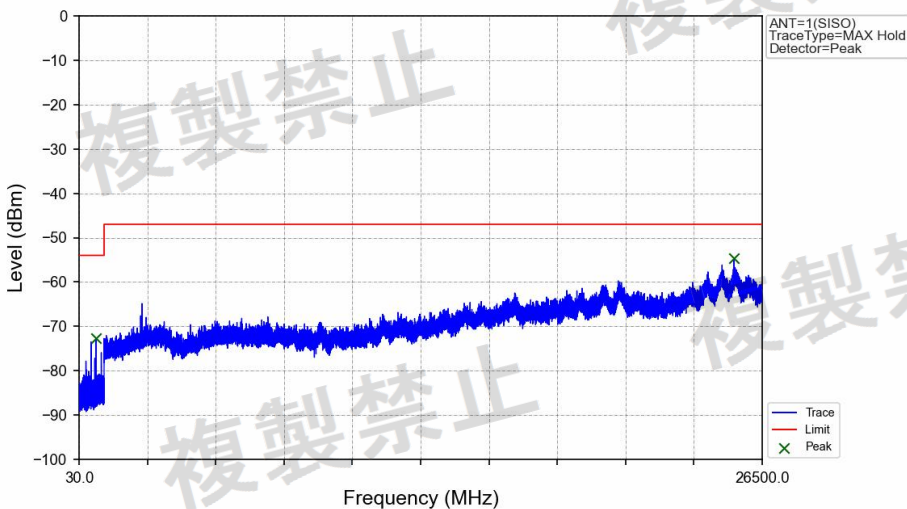
9.2.1 RxSe_NTNV



802.11ac(VHT20)_MCH_5200MHz_Ant1_NTNV

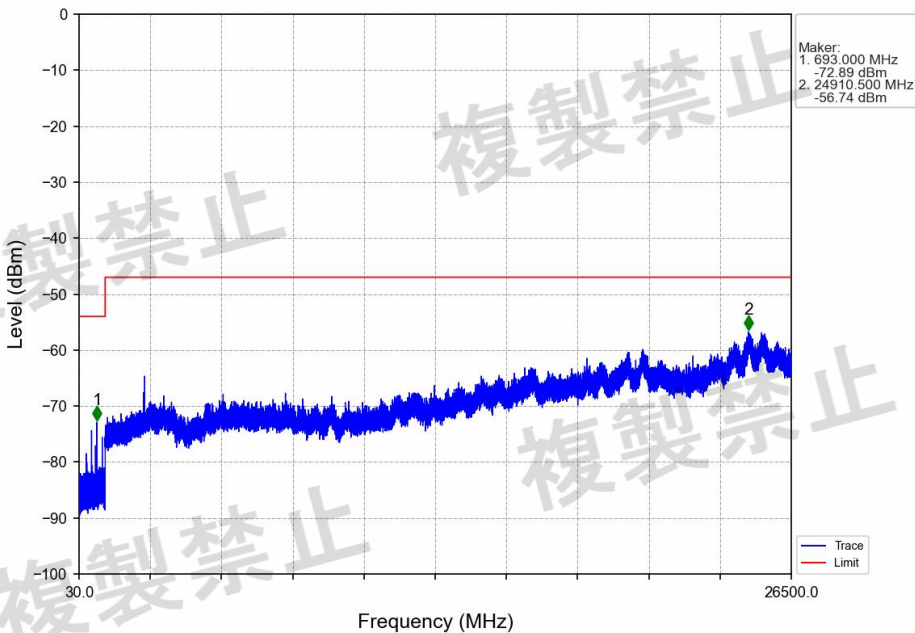


802.11ac(VHT20)_MCH_5200MHz_Ant1_NTNV

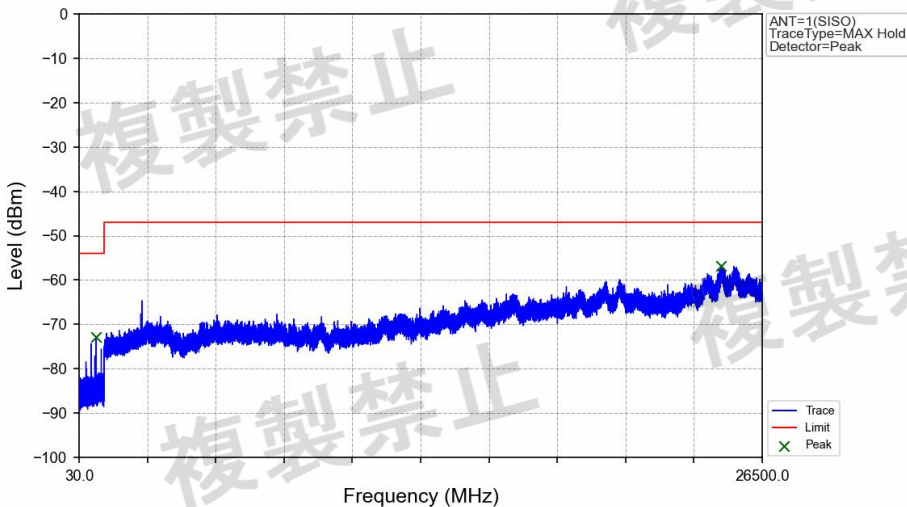


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	1000	0.1	0.1	693.000	-72.74	/	-54	Pass
1000	26500	1	1	25404.350	-54.71	/	-47	Pass

802.11ac(VHT20)_HCH_5240MHz_Ant1_NTNV

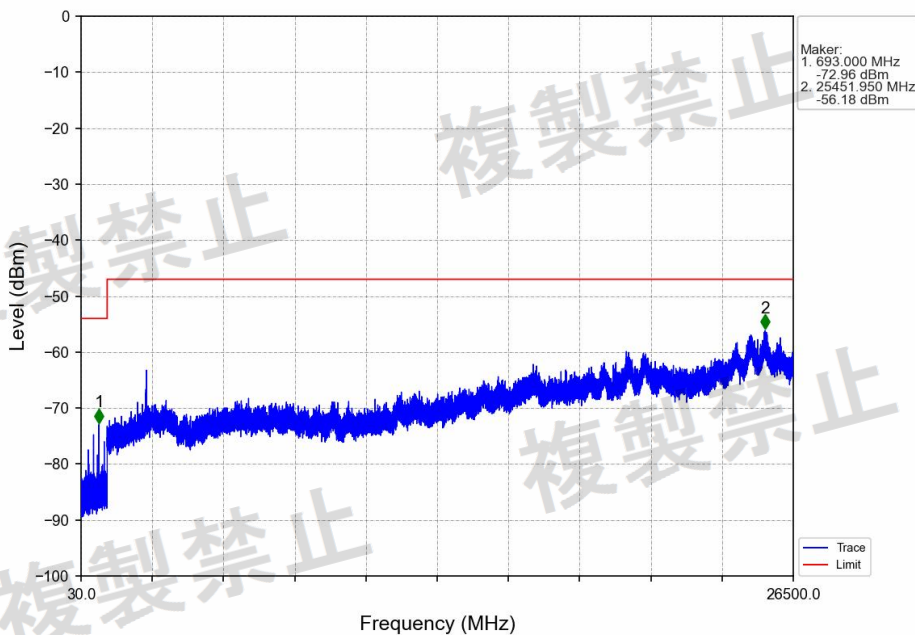


802.11ac(VHT20)_HCH_5240MHz_Ant1_NTNV

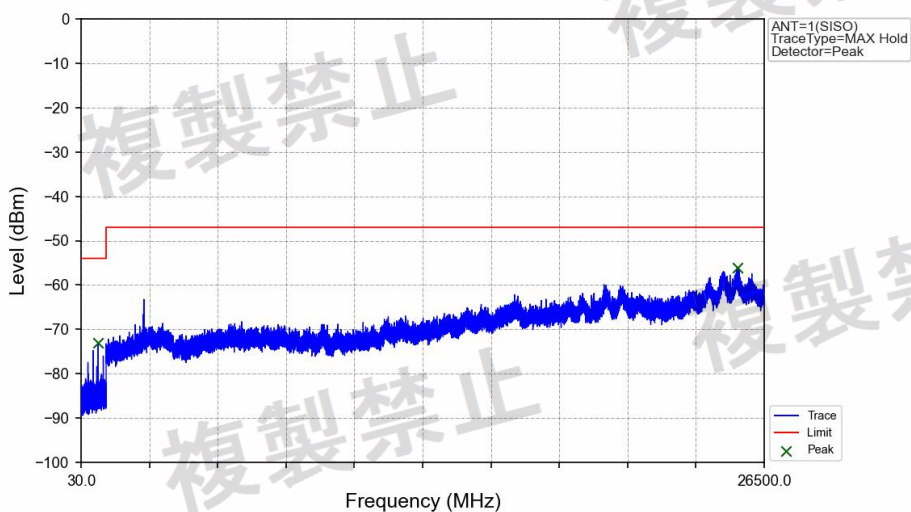


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	1000	0.1	0.1	693.000	-72.89	/	-54	Pass
1000	26500	1	1	24910.500	-56.74	/	-47	Pass

802.11ac(VHT80)_MCH_5210MHz_Ant1_NTNV



802.11ac(VHT80)_MCH_5210MHz_Ant1_NTNV

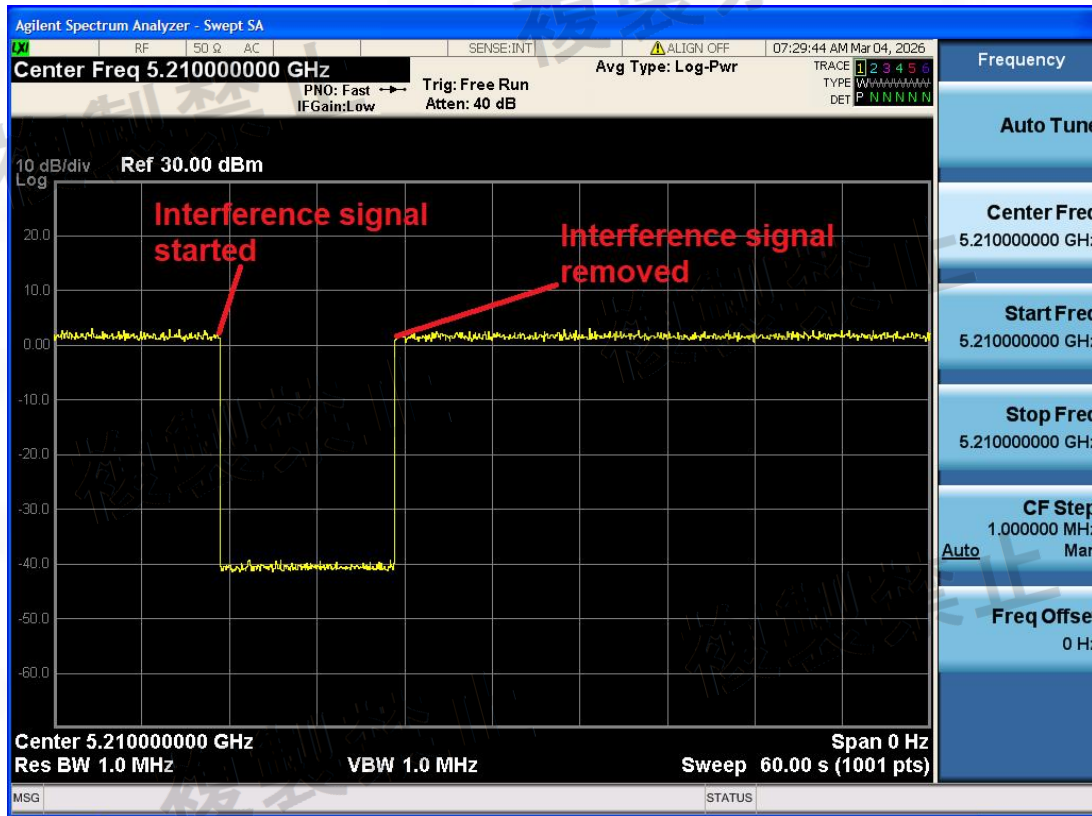


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	1000	0.1	0.1	693.000	-72.96	/	-54	Pass
1000	26500	1	1	25451.950	-56.18	/	-47	Pass

10.Carrier Sensing

Test Result of Carrier Sensing Function

Mode	CW Level(dBm)	Test Result
802.11ac(80)_5210MHz	20	Good





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-- END OF REPORT --