TEST REPORT

Product Name:	WIRELESS MEDIA TRANSMITTER
Trade Mark:	CRESTRON
Model No.:	M202106002
Report Number:	24110114414RFC-2
Specified Categories:	Item 19-3 of Article 2 Paragraph 1
Standard:	ARIB STD-T71 Version 6.2 MIC Notification No. 88 Appendix No.45
Test Result:	PASS
Date of Issue:	January 6, 2025

Prepared for:

CRESTRON ELECTRONICS, INC.
15 VOLVO DRIVE, ROCKLEIGH, NJ 07647, USA

Prepared by:

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Date: January 6, 2025

Version

Version No.	Date	Description
V1.0	January 6, 2025	Original

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1. GENERAL INFORMATION

1.1 CLIENT INFORMATION

Applicant:	CRESTRON ELECTRONICS, INC.
Address of Applicant:	15 VOLVO DRIVE, ROCKLEIGH, NJ 07647, USA
Manufacturer:	CRESTRON ELECTRONICS, INC.
Address of Manufacturer:	15 VOLVO DRIVE, ROCKLEIGH, NJ 07647, USA

1.2 EUT INFORMATION

1.2.1 General Description of EUT

Product Name:	WIRELESS MEDIA TRANSMITTER		
Model No.:	M202106002		
Trade Mark:	CRESTRON		
DUT Stage:	Identical Prototype		
EUT Supports Function: (Provided by the customer)	2.4 GHz ISM Band:	IEEE 802.11b/g/n/ax	
	5 GHz U-NII Bands:	5 150 MHz to 5 250 MHz	IEEE 802.11a/n/ac/ax
		5 250 MHz to 5 350 MHz	IEEE 802.11a/n/ac/ax
		5 470 MHz to 5 730 MHz	IEEE 802.11a/n/ac/ax
Software Version:	0.22.9.15 (Provided by the customer)		
Hardware Version:	V1.5 (Provided by the customer)		
Sample Received Date:	November 1, 2024		
Sample Tested Date:	November 5, 2024 to November 21, 2024		
Remark: The above EUT's information was provided by customer. Please refer to the specifications or user's manual for more detailed description.			

1.2.2 Description of Accessories

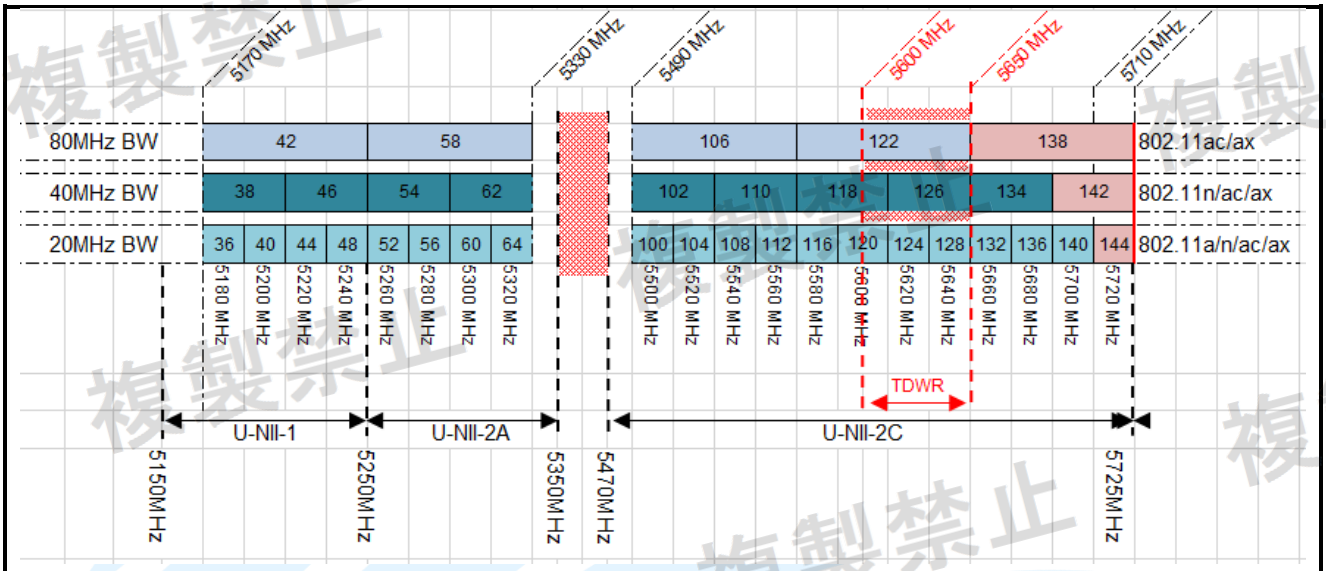
HDMI Cable	
Description:	HDMI Cable
Connector:	HDMI-A to HDMI-A
Cable Type:	Shielded without ferrite
Length:	2.0 Meter

USB Cable	
Description:	USB Cable
Connector:	USB Type-A to USB Type-C
Cable Type:	Shielded without ferrite
Length:	2.745 Meter

USB Cable	
Description:	USB Cable
Connector:	USB Type-C to USB Type-C
Cable Type:	Shielded without ferrite
Length:	2.0 Meter

1.3 PRODUCT SPECIFICATION SUBJECTIVE TO THIS STANDARD

Frequency Band:	5150 MHz to 5250 MHz	
	5250 MHz to 5350 MHz	
	5470 MHz to 5730 MHz	
Frequency Range:	5180 MHz to 5240 MHz	
	5260 MHz to 5320 MHz	
	5500 MHz to 5720 MHz	
Radio Technique:	IEEE 802.11a/n/ac/ax	
TPC Function:	Not Support	
DFS Operational mode:	Slave without radar Interference detection function	
Modulation Technique:	DSSS, OFDM, OFDMA	
Type of Modulation:	IEEE 802.11a: OFDM(64QAM, 16QAM, QPSK, BPSK)	
	IEEE 802.11n: OFDM(64QAM, 16QAM, QPSK, BPSK)	
	IEEE 802.11ac: OFDM(256QAM, 64QAM, 16QAM, QPSK, BPSK)	
	IEEE 802.11ax: ☑ OFDM (1024QAM, 256QAM, 64QAM, 16QAM, QPSK, BPSK) ☑ OFDMA (1024QAM, 256QAM, 64QAM, 16QAM, QPSK, BPSK)	
Channel Spacing:	IEEE 802.11a/n-HT20/ac-VHT20/ax-HE20: 20 MHz (Please see NOTE 1)	
	IEEE 802.11n-HT40/ac-VHT40/ax-HE40: 40 MHz (Please see NOTE 1)	
	IEEE 802.11ac-VHT80/ax-HE80: 80 MHz (Please see NOTE 1)	
Data Rate:	IEEE 802.11a: Up to 54 Mbps	
	IEEE 802.11n-HT20: Up to MCS15	
	IEEE 802.11n-HT40: Up to MCS15	
	IEEE 802.11ac-VHT20: Up to MCS8	
	IEEE 802.11ac-VHT40: Up to MCS9	
	IEEE 802.11ac-VHT80: Up to MCS9	
	IEEE 802.11ax-HE20/HE40/HE80: Up to MCS11	
RF Output Power:	Please see NOTE 2	
Antenna Type: (Provided by the customer)	Dipole Antenna	
Antenna Gain: (Provided by the customer)	5150 MHz to 5250 MHz	Antenna 1: 3.5 dBi Antenna 2: 3.5 dBi
	5250 MHz to 5350 MHz	Antenna 1: 3.5 dBi Antenna 2: 3.5 dBi
	5470 MHz to 5730 MHz	Antenna 1: 3.5 dBi Antenna 2: 3.5 dBi
Test Voltage:	Please see NOTE 3	
NOTE: 1. Operation frequency each of channel		



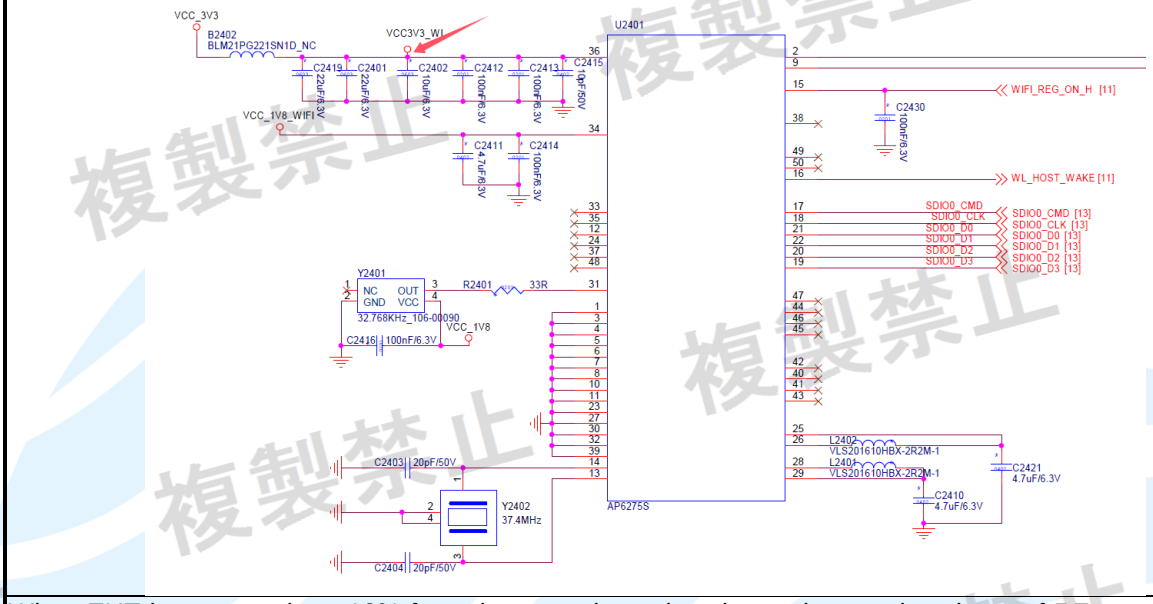
2. The RF output power as below table:

Mode	Conducted RF output power density (mW/MHz)					
	Ant.1 or Ant.2			Total		
	W52	W53	W56	W52	W53	W56
IEEE 802.11a	1.3459	0.5901	0.9094	/	/	/
IEEE 802.11n-HT20	1.2532	0.5488	0.7828	2.4333	0.9879	1.5637
IEEE 802.11n-HT40	0.8944	0.3766	0.5158	1.6056	0.7030	0.9519
IEEE 802.11ac-VHT20	1.2178	0.5250	0.7703	2.3040	0.9658	1.5058
IEEE 802.11ac-VHT40	0.9055	0.3925	0.4472	1.5627	0.7002	0.8251
IEEE 802.11ac-VHT80	0.4430	0.2319	0.2365	0.7994	0.4313	0.4587
IEEE 802.11ax-HE20	1.2269	0.5393	0.7685	2.2151	0.9764	1.5237
IEEE 802.11ax-HE40	0.9286	0.4151	0.4651	1.6710	0.7552	0.8930
IEEE 802.11ax-HE80	0.4730	0.2567	0.2645	0.8805	0.5029	0.4933

Mode	Radiated RF output power density (mW/MHz)					
	Ant.1 or Ant.2			Total		
	W52	W53	W56	W52	W53	W56
IEEE 802.11a	3.0130	1.3210	2.0358	/	/	/
IEEE 802.11n-HT20	2.8055	1.2287	1.7525	5.4475	2.2115	3.5007
IEEE 802.11n-HT40	2.0024	0.8432	1.1548	3.5945	1.5738	2.1311
IEEE 802.11ac-VHT20	2.7263	1.1752	1.7245	5.1580	2.1621	3.3710
IEEE 802.11ac-VHT40	2.0272	0.8786	1.0012	3.4986	1.5675	1.8471
IEEE 802.11ac-VHT80	0.9918	0.5191	0.5296	1.7896	0.9655	1.0268
IEEE 802.11ax-HE20	2.7467	1.2073	1.7205	4.9589	2.1858	3.4112
IEEE 802.11ax-HE40	2.0790	0.9292	1.0413	3.7408	1.6907	1.9992
IEEE 802.11ax-HE80	1.0589	0.5747	0.5922	1.9711	1.1258	1.1044

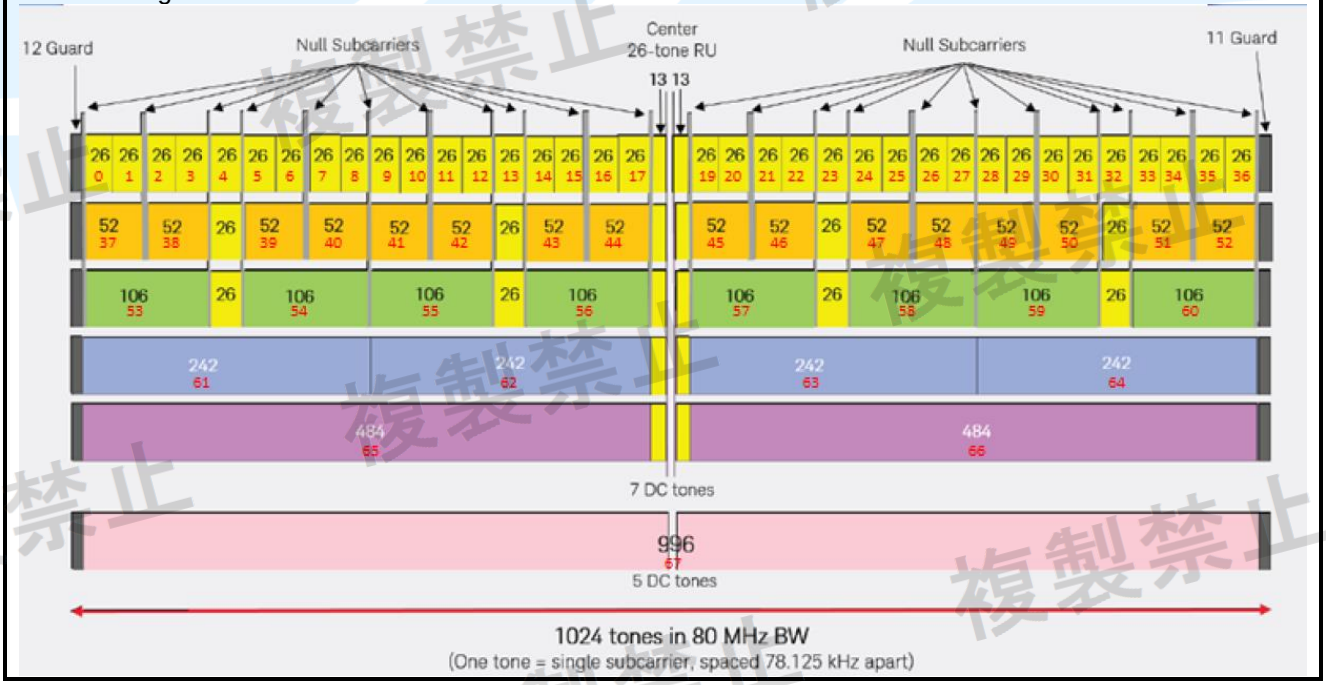
3. Test voltage as below table:

	Normal Voltage	Low Extreme Voltage	High Extreme Voltage
Operating Voltage (V)	100 V	90 V	110 V
Measuring Voltage (V)	3.3 V	3.3 V	3.3 V
Tolerance (%)	--	0.00 %	0.00 %



When EUT be operated at ±10% from the normal supply voltage, the supply voltage of RF part was varied within ±1%. All test cases were done under the normal supply voltage.

4. RU Configuration:



1.4 OTHER INFORMATION

None.

1.5 GENERAL DESCRIPTION OF APPLIED STANDARDS

The EUT is a RF product, according to the specifications of the manufacturers. It must comply with the requirements of the following standards:

Item 19-3 of Article 2 Paragraph 1,
ARIB STD-T71 Version 6.2,
MIC Notification No. 88 Appendix No.45

All test items have been performed and recorded as per the above standards

1.6 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested with associated equipment below.

1) Support Equipment

Description	Manufacturer	Model No.	Serial Number	Supplied by
N/A	N/A	N/A	N/A	N/A

2) Support Cable

Cable No.	Description	Connector	Length	Supplied by
1	Antenna Cable	SMA	0.3 Meter	UnionTrust

1.7 TEST LOCATION

All tests were performed at:

Shenzhen UnionTrust Quality and Technology Co., Ltd.

Address: 16/F, Block A, Building 6th, Baoneng Science and Technology Park, Longhua Street, Longhua District, Shenzhen, China
Telephone: +86 (0) 755 2823 0888
Fax: +86 (0) 755 2823 0886

1.8 TEST FACILITY

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

CNAS-Lab Code: L9069
The measuring equipment utilized to perform the tests documented in this report has been calibrated once a year or in accordance with the manufacturer's recommendations, and is traceable under the ISO/IEC 17025 to international or national standards. Equipment has been calibrated by accredited calibration laboratories.

A2LA-Lab Certificate No.: 4312.01
Shenzhen UnionTrust Quality and Technology Co., Ltd. has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

ISED Wireless Device Testing Laboratories
CAB identifier: CN0032

FCC Accredited Lab.
Designation Number: CN1194
Test Firm Registration Number: 259480

1.9 DEVIATION FROM STANDARDS

None.

1.10 ABNORMALITIES FROM STANDARD CONDITIONS

None.

1.11 OTHER INFORMATION REQUESTED BY THE CUSTOMER

None.

1.12 MEASUREMENT UNCERTAINTY

No.	Item	Measurement Uncertainty
1	Radio frequency	±6.5 x 10^{-8}
2	Occupied Channel Bandwidth	±1.86%
3	RF output power, conducted	±0.9 dB
4	Power Spectral Density	±0.6 dB
5	Spurious emissions, conducted	±2.7 dB
6	Supply voltages	±0.68 %
7	Time	±0.19 %
8	Adjacent Channel Power	±1.3 dB
Remark: 95% Confidence Levels, k=2.		

2. TEST SUMMARY

Item	Notice 88 Appendix 45 Reference	ARIB STD-T71 Reference	Report reference	Result
GENERAL PROVISIONS				
Frequency Tolerance	C	3.1.2 (4)	5.3	PASS
Occupied bandwidth	D	3.1.2 (11)	5.4	PASS
Spurious emissions	E	3.1.2 (8)	5.5	PASS
TRANSMITTING EQUIPMENT				
Antenna power	F	3.1.2 (2)	5.6	PASS
SAR	--	--	--	N/A
TRANSMITTING ANTENNA				
Type, configuration, etc. of transmitting antenna	--	--	1.3, 5.2	PASS
Direction pattern of transmitting antenna	--	--	5.2	PASS
RECEIVING EQUIPMENT				
Spurious emissions of receiver	H	3.1.3 (1)	5.10	PASS
Refer to all articles for transmitting antenna	--	--	5.2	PASS
OPERATING FREQUENCY (5150-5350MHZ, 5470-5730MHZ)				
High Frequency/modulation section cannot be opened easily	--	3.1.8 (1)	5.12	PASS
Communication method	--	3.1.1 (1)	1.3	PASS
Modulation method	--	3.1.2 (1)	1.3	PASS
Signal transmission rate	--	3.1.2 (6)	1.3	PASS
Transmission burst length	--	3.1.2 (7)	5.7	PASS
Antenna power	--	3.1.2 (2)	5.6	PASS
Isotropically radiated power	--	3.1.2 (5)	5.6	PASS
Number of carriers	--	3.1.2 (1)	1.3	PASS
Spreading factor	--	--	--	N/A
Out-band leakage power	--	3.1.2 (10)	5.8	PASS
Adjacent Channel Emitted Power	--	3.1.2 (9)	5.9	PASS
Comply with the technical conditions	--	--	--	PASS
Carrier Sense Capability	--	3.1.5	5.11	PASS
Interference Prevention Function	--	--	5.12	PASS
Dynamic frequency selection	--	--	5.13	PASS

Note:

1) N/A: In this whole report not applicable.

Disclaimer and Explanations:

The declared of product specification and data (e.g., antenna gain, RF specification, etc) for EUT presented in the report are provided by the customer, and the customer takes all the responsibilities for the accuracy of product specification.

3. EQUIPMENT LIST

Used	Equipment	Manufacturer	Model No.	Serial Number	Cal. date	Cal. Due date
☑	EXA Spectrum Analyzer	KEYSIGHT	N9020A	MY51286807	25-Oct-2024	24-Oct-2025
☑	USB Wideband Power Sensor	KEYSIGHT	U2021XA	MY55430035	25-Oct-2024	24-Oct-2025
☑	MXG X-Series RF Vector Signal Generator	KEYSIGHT	N5182B	MY51350267	25-Oct-2024	24-Oct-2025
☐	Wideband Radio Communication Tester	R&S	CMW500	120932	29-Mar-2024	28-Mar-2025
☐	DC Source	KIKUSUI	PWR400L	LK003024	19-July-2024	18-July-2025
☑	Digital multimeter	FLUKE	15B+	30701460WS 15	29-Oct-2024	28-Oct-2025

Note 1: Calibration Method

a) Calibration conducted by the National Institute of Information and Communications Technology NICT or a designated calibration agency under Article 102-18 paragraph

b) Correction conducted pursuant to the provisions of Article 135 or Article 144 of the Measurement Law (Law No. 51 of 1992)

c) Calibration conducted in foreign countries, which shall be equivalent to the calibration conducted by the NICT or a designated calibration agency under Article 102-18 paragraph

d) Calibration, etc. conducted by using measuring instruments and other equipment listed in the right column of appended table No. 3, which shall have been given any type of calibration, etc. listed above from (a) to

The all calibration corresponds to c) described above.

Note 2: Calibration information

Calibration Agency: Guangzhou LiSai Metrology & Test Co., Ltd.

Address: No.8, South Street Shi Ji Institute Guangzhou, Guangdong, China

4. TEST CONFIGURATION

4.1 ENVIRONMENTAL CONDITIONS FOR TESTING

4.1.1 Normal or Extreme Test Conditions

Environment Parameter	Selected Values During Tests		
Test Condition	Ambient		
	Temperature (°C)	Voltage (V)	Relative Humidity (%)
TN/VN	+15 to +35	100	20 to 75
TN/VL		90	
TN/VH		110	

Remark:
1) VN: Normal Voltage; TN: Normal Temperature;
2) VL: Low Extreme Test Voltage; VH: High Extreme Test Voltage.
3) The operating voltage range of this device declared by client is 90V to 110 V.

4.1.2 Record of Normal Environment and Test Sample

Test Item	Temp. (°C)	Relative Humidity (%)	Pressure (kPa)	Sample No.	Tested by
Frequency Tolerance	23.3	46.6	100.4	S202411014567-ZJA02/2	Allen Zhou
Occupied bandwidth & Spreading bandwidth					
Spurious emissions					
Antenna power					
Spurious emissions of receiver					
Out-band leakage power					
Adjacent Channel power tolerance					

4.2 TEST CHANNELS

Mode	Tx/Rx Frequency	Test RF Channel Lists		
		Lowest(L)	Middle(M)	Highest(H)
IEEE 802.11a IEEE 802.11n-HT20 IEEE 802.11ac-VHT20 IEEE 802.11ax-HE20	5150 MHz to 5250 MHz	Channel 36	Channel 44	Channel 48
		5180 MHz	5220 MHz	5240 MHz
	5250 MHz to 5350 MHz	Channel 52	Channel 60	Channel 64
		5260 MHz	5300 MHz	5320 MHz
	5470 MHz to 5730 MHz	Channel 100	Channel 120	Channel 144
		5500 MHz	5600 MHz	5720 MHz
IEEE 802.11n-HT40 IEEE 802.11ac-VHT40 IEEE 802.11ax-HE40	5150 MHz to 5250 MHz	Channel 38	--	Channel 46
		5190 MHz	--	5230 MHz
	5250 MHz to 5350 MHz	Channel 54	--	Channel 62
		5270 MHz	--	5310 MHz
	5470 MHz to 5730 MHz	Channel 102	Channel 110	Channel 142
		5510 MHz	5550 MHz	5710 MHz
IEEE 802.11ac-VHT80 IEEE 802.11ax-HE80	5150 MHz to 5250 MHz	--	Channel 42	--
		--	5210 MHz	--
	5250 MHz to 5350 MHz	--	Channel 58	--
		--	5290 MHz	--

	5470 MHz to 5730 MHz	Channel 106	Channel 122	Channel 138
		5530 MHz	5610 MHz	5690 MHz

4.3 EUT TEST STATUS

Mode	Tx/Rx Function	Description
IEEE 802.11a	1Tx/1Rx	Keep the EUT in continuously transmitting or receiving with modulation and data rates test single. Keep the equipment in normal operation and achieve a certain throughput.
IEEE 802.11n/ac/ax	2Tx/2Rx	

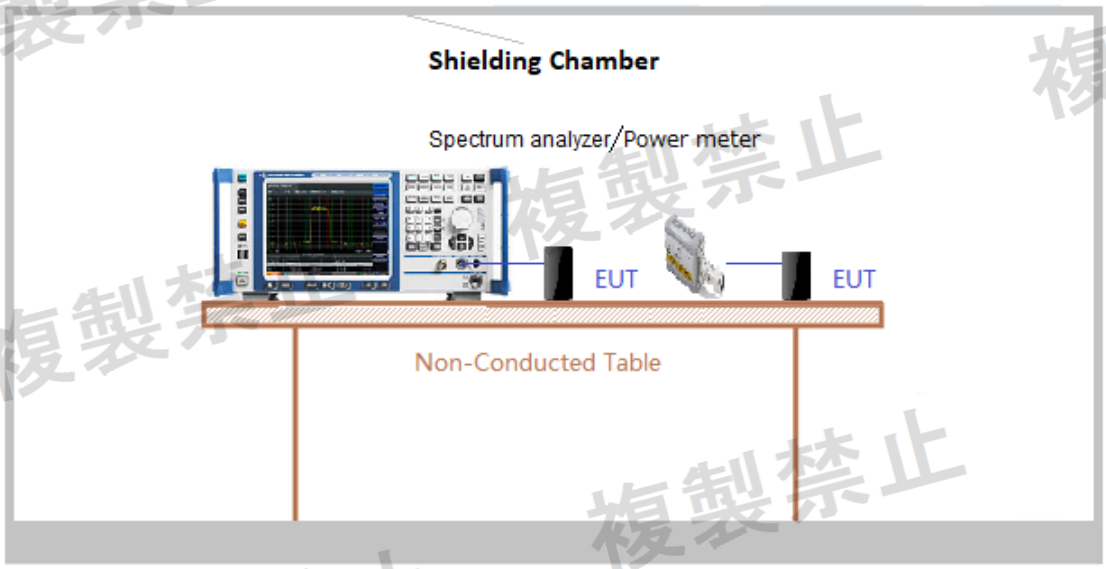
Power Setting (Provided by the customer)			
	Band 1	Band 2	Band 3
IEEE 802.11a	default	default	default
IEEE 802.11n-HT20	default	default	default
IEEE 802.11n-HT40	default	default	default
IEEE 802.11ac-VHT20	default	default	default
IEEE 802.11ac-VHT40	default	default	default
IEEE 802.11ac-VHT80	default	default	default
IEEE 802.11ax-HE20	default	default	default
IEEE 802.11ax-HE40	default	default	default
IEEE 802.11ax-HE80	default	default	default

Test Software (Provided by the customer)
Command.

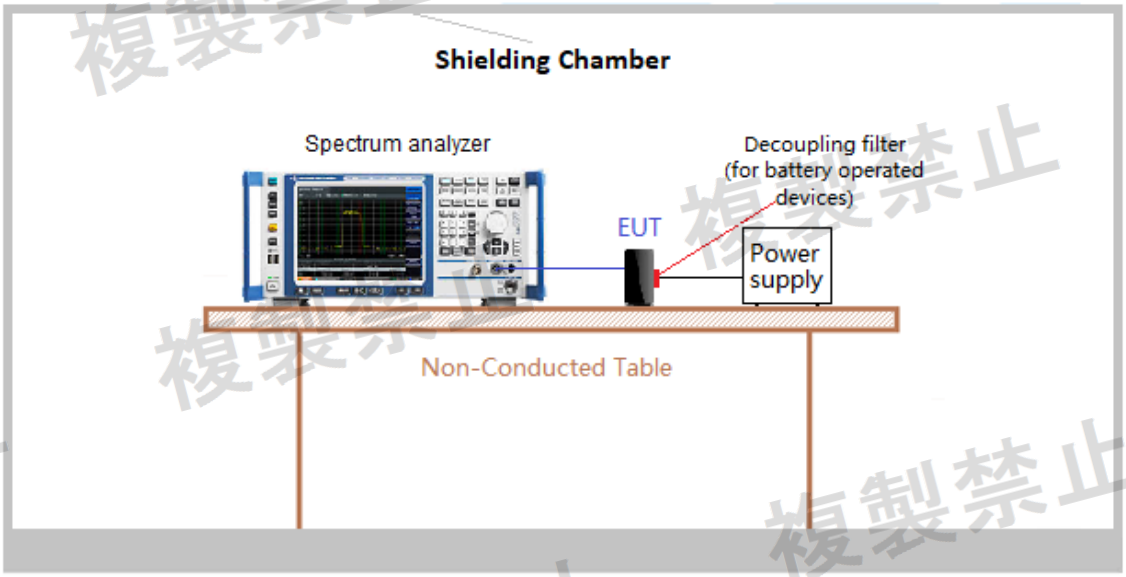
4.4 WORST-CASE DATA RATES

Mode	Worst-case data rates
IEEE 802.11a	1 Mbps
IEEE 802.11n-HT20 IEEE 802.11ac-VHT20 IEEE 802.11ax-HE20	MCS0
IEEE 802.11n-HT40 IEEE 802.11ac-VHT40 IEEE 802.11ax-HE40	MCS0
IEEE 802.11ac-VHT80 IEEE 802.11ax-HE80	MCS0

4.5 TEST SETUP



Normal Environment



Extreme Environment

5. RADIO TECHNICAL REQUIREMENTS SPECIFICATION

5.1 REFERENCE DOCUMENTS FOR TESTING

Item 19-3 of Article 2 Paragraph 1: Low power data communications system in the 5.2, 5.3, 5.6GHz band

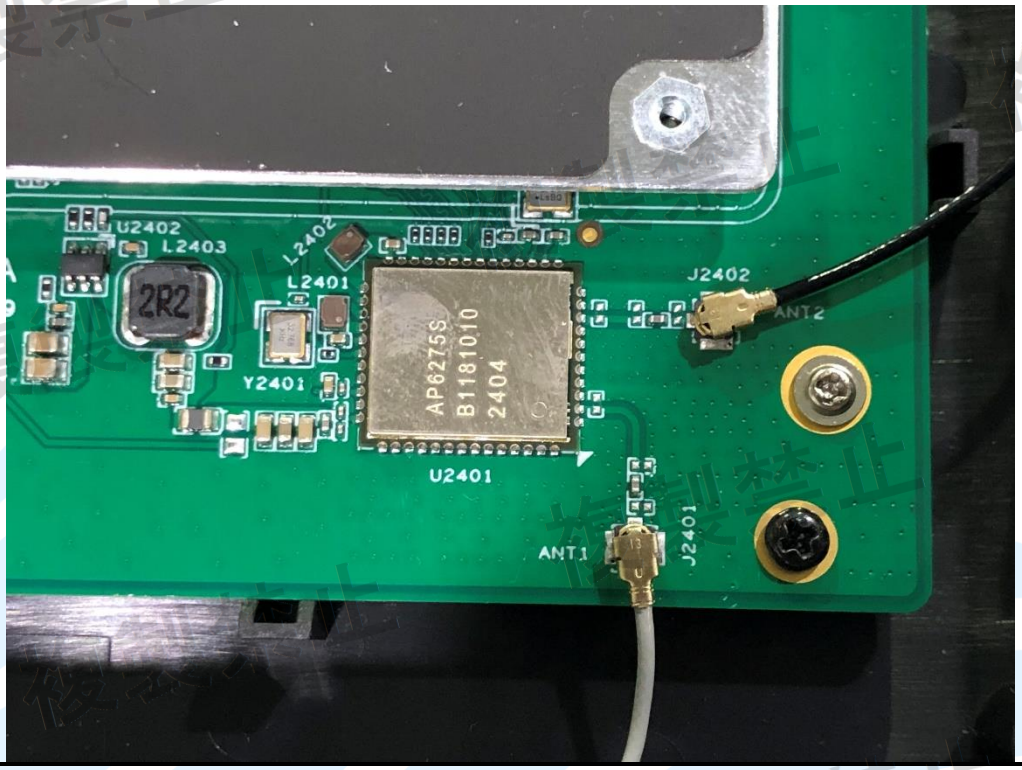
ARIB STD-T71 Version 6.2: Broadband Mobile Access Communication System (CSMA)

MIC Notification No. 88 Appendix No.45

5.2 ANTENNA REQUIREMENT

Standard Requirement
Applicable for equipment with an antenna terminal, including testing terminals) If an antenna connector is available, all relevant tests will be carried out conducted. If not, tests will be carried out in an anechoic room or with a suitable test-fixture.
EUT Antenna
The antenna is installed inside the EUT and no consideration of replacement. The best-case gain of the antenna is 3.5 dBi, for more antenna details, refer to the antenna report.

Result: An antenna connector is available, all relevant tests will be carried out conducted.



5.3 FREQUENCY TOLERANCE

5.3.1 Limit

Tolerance of frequency shall be +/- 20ppm.

5.3.2 Test Setup

Refer to section 4.5 for details.

5.3.3 Instruments Used

Refer to section 3 for details

5.3.4 Test Procedures

Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.

CW tone method

Use the following spectrum analyzer settings:

1. Center Frequency = test frequency
2. RBW = 10kHz, VBW = 10kHz;
3. Sweep = auto;
4. Detector function = peak
5. Trace = max hold
6. The frequency tolerance test case is directly measured using spectrum analyzer. Then the frequency error formula is (f-fc)/fc×10^6 ppm and the limit is less than ±20ppm.

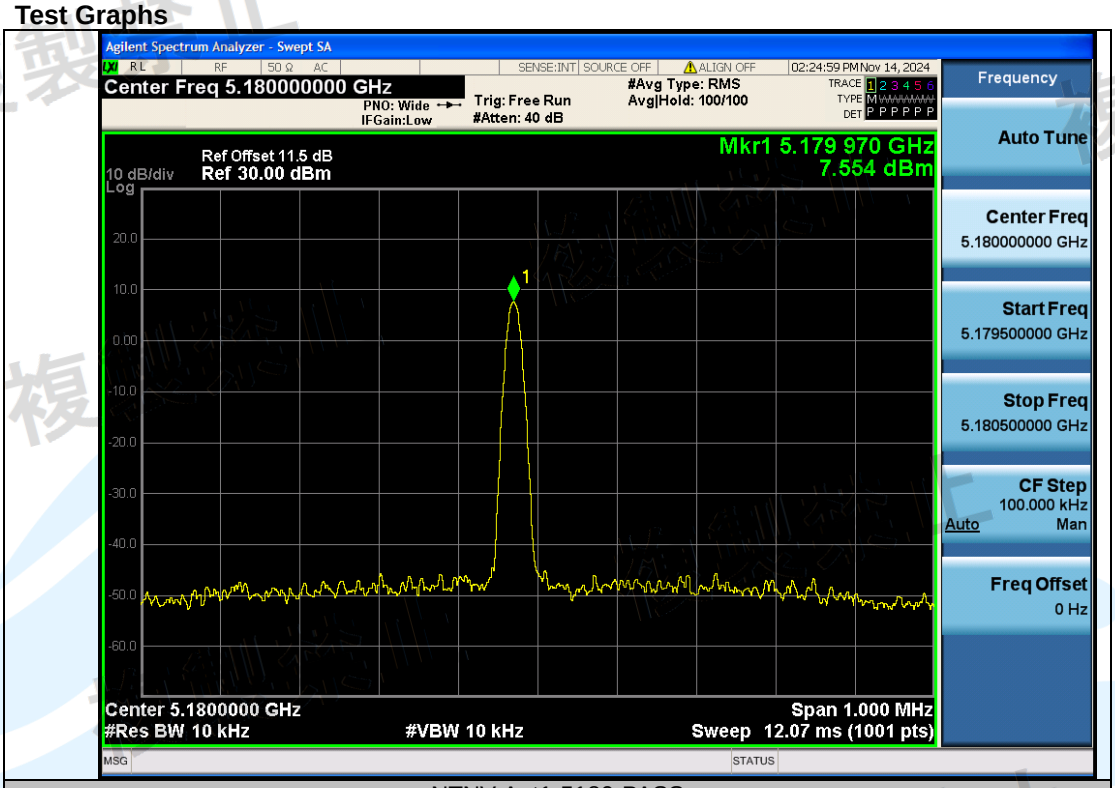
10dB down method

1. Center Frequency = test frequency
2. RBW = 100kHz, VBW = 100kHz;
3. Sweep = auto;
4. Detector function = peak
5. Trace = max hold
6. Display line level = Max. level – 10dB to place markers, highest (fH) and lowest (fL) frequency.
7. Determine measuring frequency f = (fH - fL) / 2.
8. The frequency tolerance test case is directly measured using spectrum analyzer. Then the frequency error formula is (f-fc)/fc×10^6 ppm and the limit is less than ±20ppm.

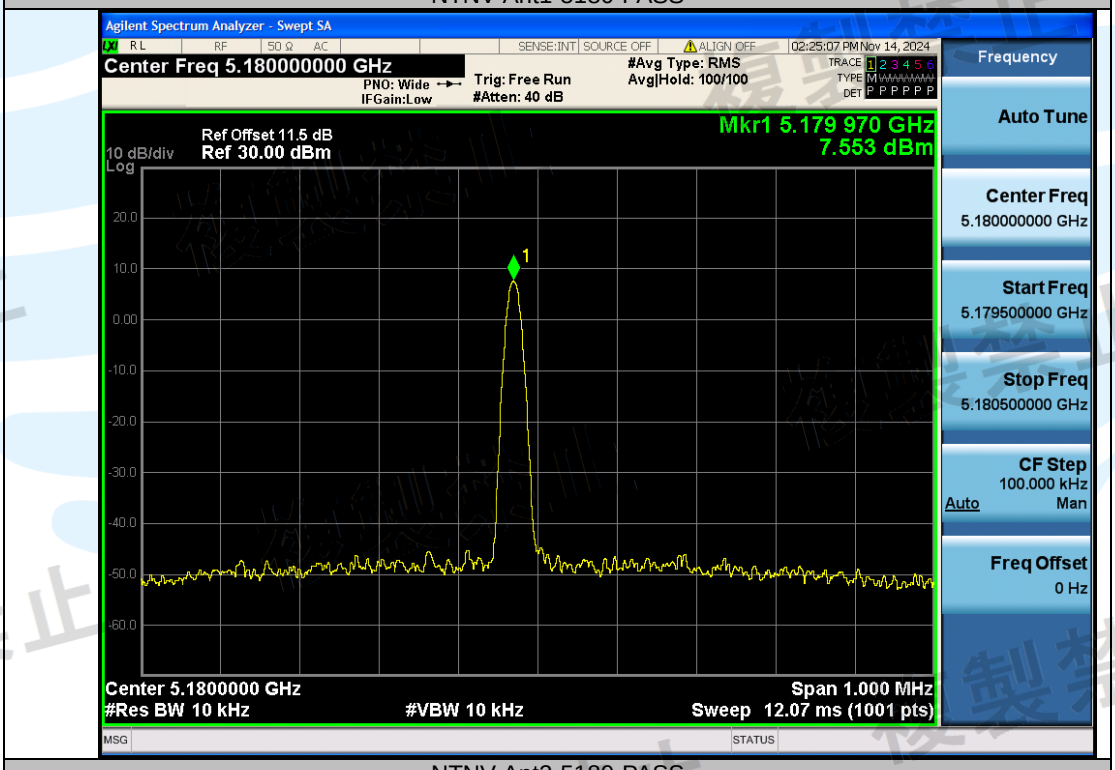
5.3.5 Test Result

Test Condition	Test Mode	Antenna	Frequency [MHz]	Center Freq [MHz]	Result [ppm]	Limit [ppm]	Verdict
NTNV	20MHz	Ant1	5180	5179.97	-5.79151	±20	PASS
NTNV	20MHz	Ant2	5180	5179.97	-5.79151	±20	PASS
NTNV	20MHz	Ant1	5220	5219.969	-5.93870	±20	PASS
NTNV	20MHz	Ant2	5220	5219.969	-5.93870	±20	PASS
NTNV	20MHz	Ant1	5240	5239.969	-5.91603	±20	PASS
NTNV	20MHz	Ant2	5240	5239.969	-5.91603	±20	PASS
NTNV	20MHz	Ant1	5260	5259.969	-5.89354	±20	PASS
NTNV	20MHz	Ant2	5260	5259.969	-5.89354	±20	PASS
NTNV	20MHz	Ant1	5300	5299.969	-5.84906	±20	PASS
NTNV	20MHz	Ant2	5300	5299.969	-5.84906	±20	PASS
NTNV	20MHz	Ant1	5320	5319.97	-5.63910	±20	PASS
NTNV	20MHz	Ant2	5320	5319.97	-5.63910	±20	PASS
NTNV	20MHz	Ant1	5500	5499.969	-5.63636	±20	PASS
NTNV	20MHz	Ant2	5500	5499.969	-5.63636	±20	PASS
NTNV	20MHz	Ant1	5600	5599.968	-5.71429	±20	PASS
NTNV	20MHz	Ant2	5600	5599.968	-5.71429	±20	PASS
NTNV	20MHz	Ant1	5720	5719.968	-5.59441	±20	PASS
NTNV	20MHz	Ant2	5720	5719.967	-5.76923	±20	PASS
NTNV	40MHz	Ant1	5190	5189.97	-5.78035	±20	PASS
NTNV	40MHz	Ant2	5190	5189.97	-5.78035	±20	PASS
NTNV	40MHz	Ant1	5230	5229.97	-5.73614	±20	PASS
NTNV	40MHz	Ant2	5230	5229.97	-5.73614	±20	PASS
NTNV	40MHz	Ant1	5270	5269.97	-5.69260	±20	PASS
NTNV	40MHz	Ant2	5270	5269.97	-5.69260	±20	PASS
NTNV	40MHz	Ant1	5310	5309.97	-5.64972	±20	PASS
NTNV	40MHz	Ant2	5310	5309.97	-5.64972	±20	PASS
NTNV	40MHz	Ant1	5510	5509.969	-5.62613	±20	PASS
NTNV	40MHz	Ant2	5510	5509.969	-5.62613	±20	PASS
NTNV	40MHz	Ant1	5550	5549.969	-5.58559	±20	PASS
NTNV	40MHz	Ant2	5550	5549.969	-5.58559	±20	PASS
NTNV	40MHz	Ant1	5710	5709.968	-5.60420	±20	PASS
NTNV	40MHz	Ant2	5710	5709.968	-5.60420	±20	PASS
NTNV	80MHz	Ant1	5210	5209.971	-5.56622	±20	PASS
NTNV	80MHz	Ant2	5210	5209.971	-5.56622	±20	PASS
NTNV	80MHz	Ant1	5290	5289.97	-5.67108	±20	PASS
NTNV	80MHz	Ant2	5290	5289.97	-5.67108	±20	PASS
NTNV	80MHz	Ant1	5530	5529.969	-5.60579	±20	PASS
NTNV	80MHz	Ant2	5530	5529.969	-5.60579	±20	PASS
NTNV	80MHz	Ant1	5610	5609.968	-5.70410	±20	PASS
NTNV	80MHz	Ant2	5610	5609.968	-5.70410	±20	PASS
NTNV	80MHz	Ant1	5690	5689.967	-5.79965	±20	PASS
NTNV	80MHz	Ant2	5690	5689.967	-5.79965	±20	PASS

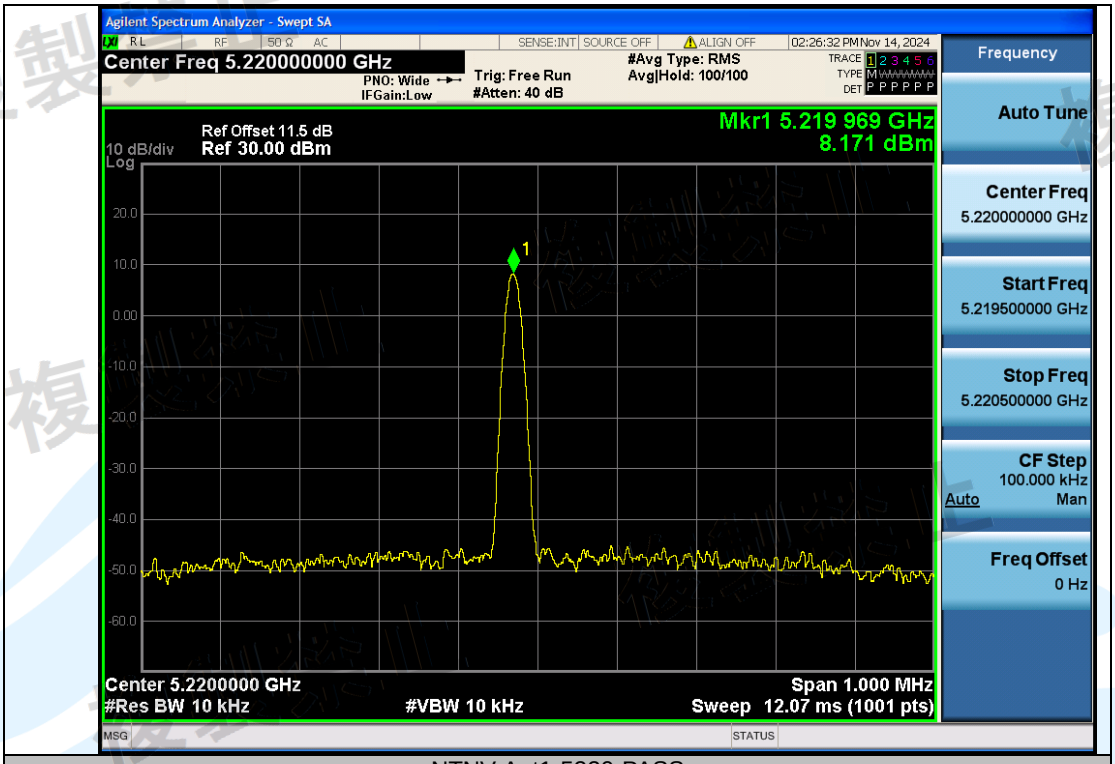
Test Graphs



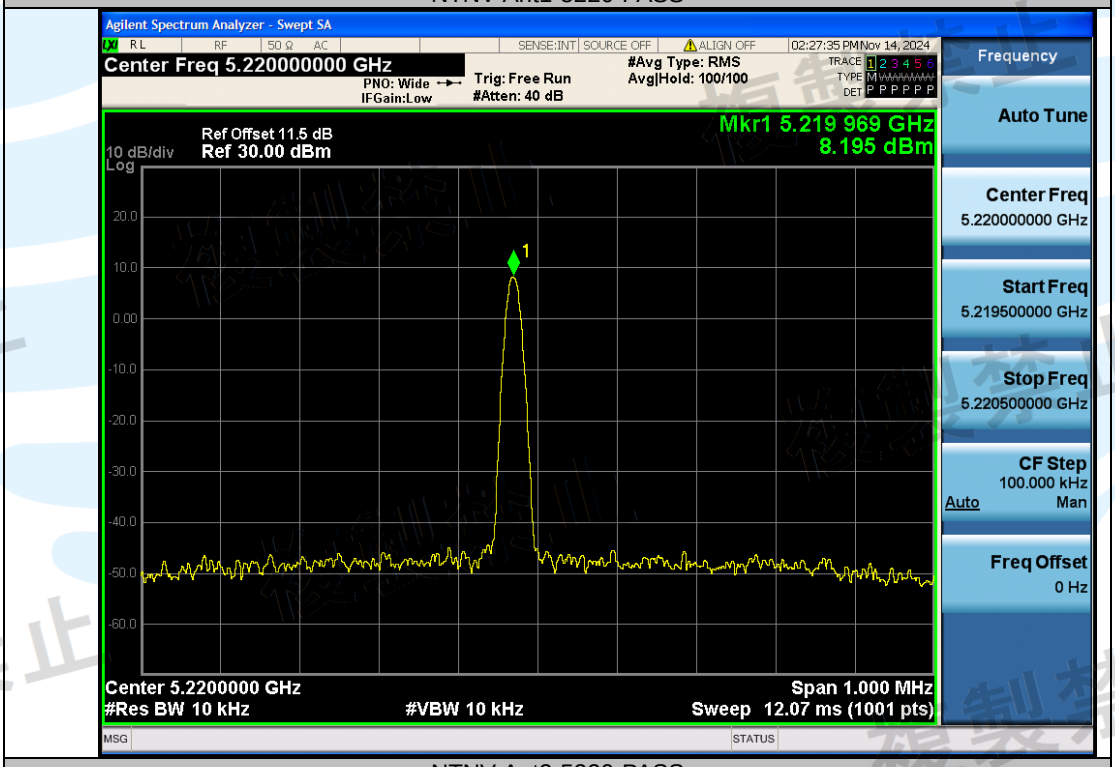
NTNV-Ant1-5180-PASS



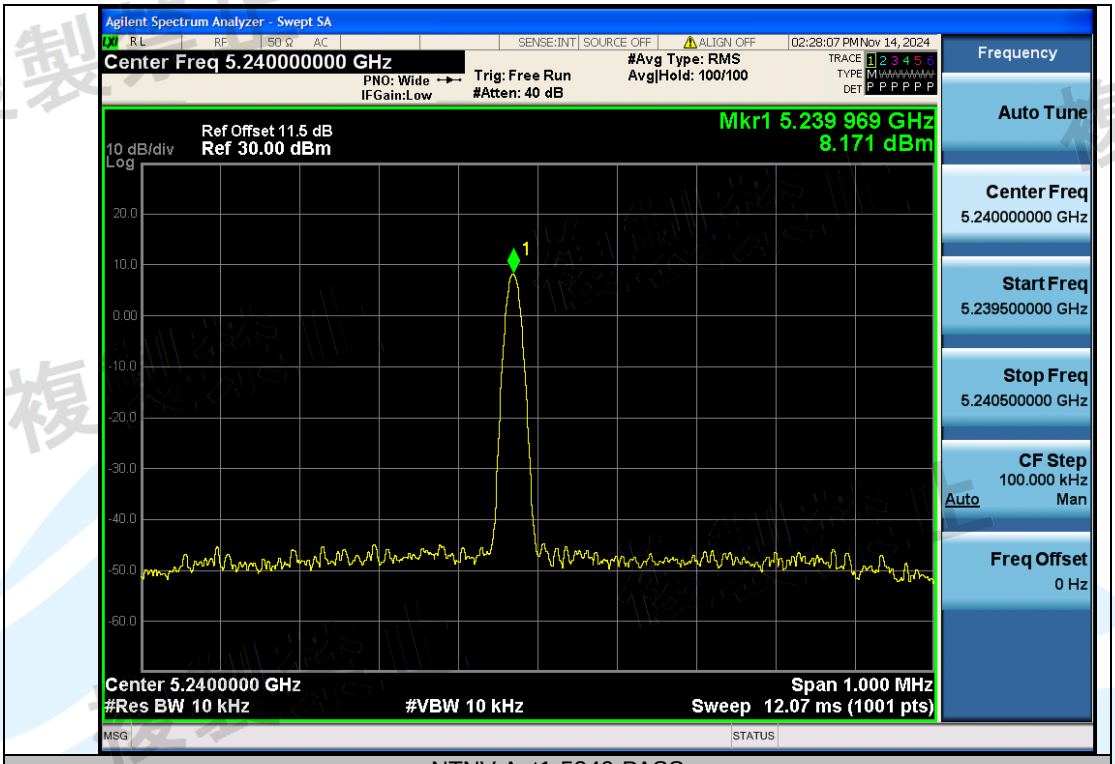
NTNV-Ant2-5180-PASS



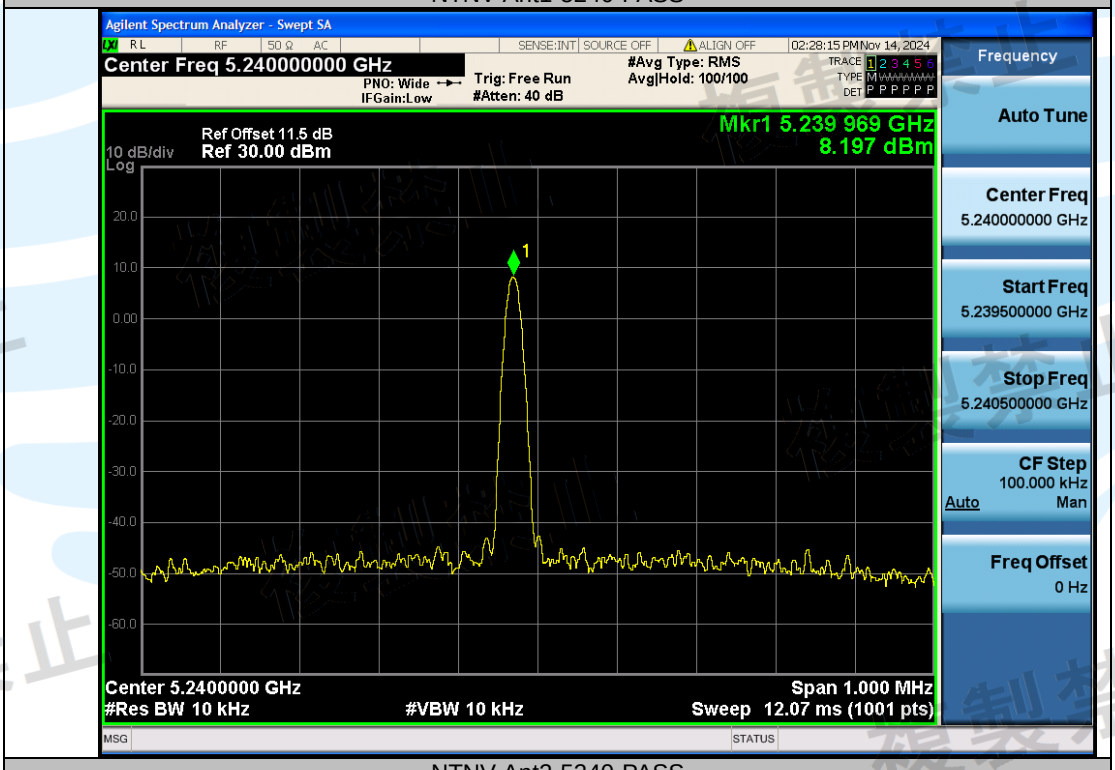
NTNV-Ant1-5220-PASS



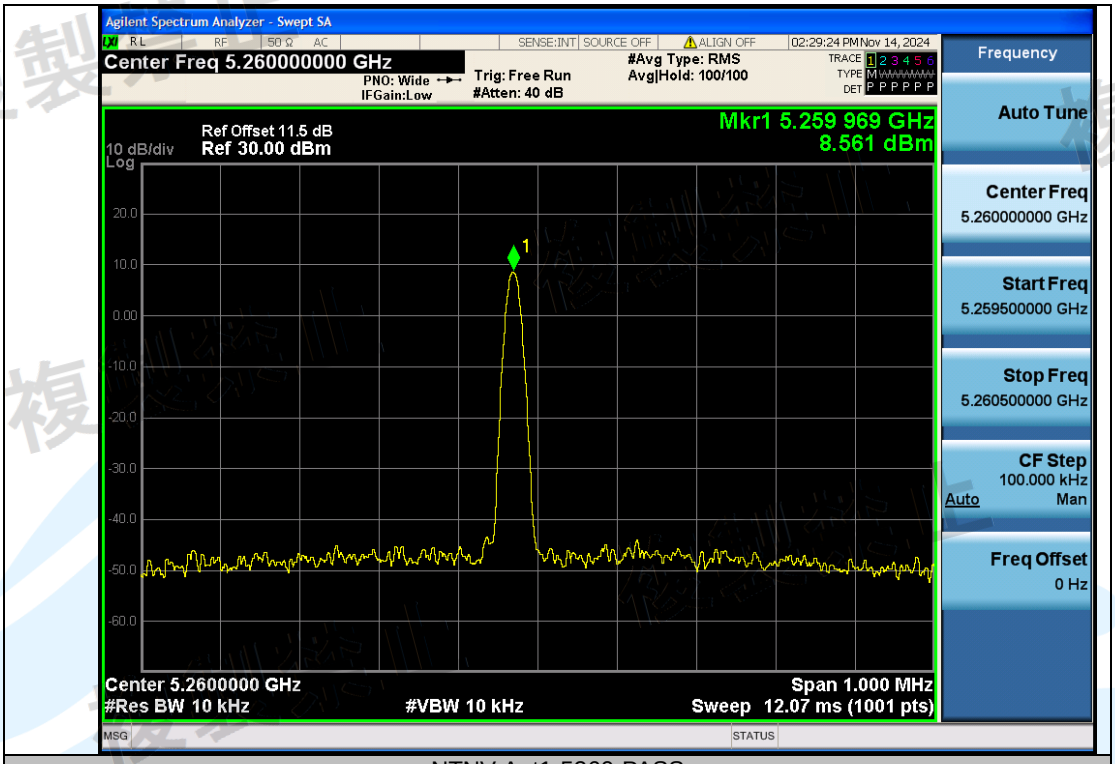
NTNV-Ant2-5220-PASS



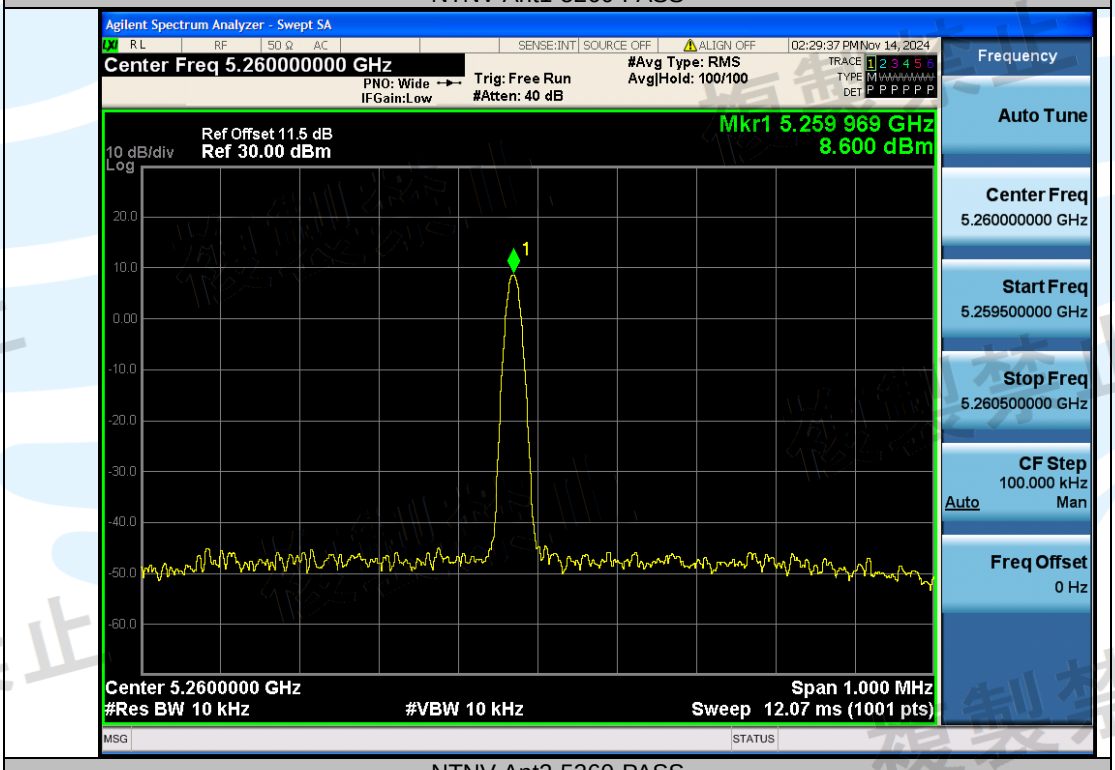
NTNV-Ant1-5240-PASS



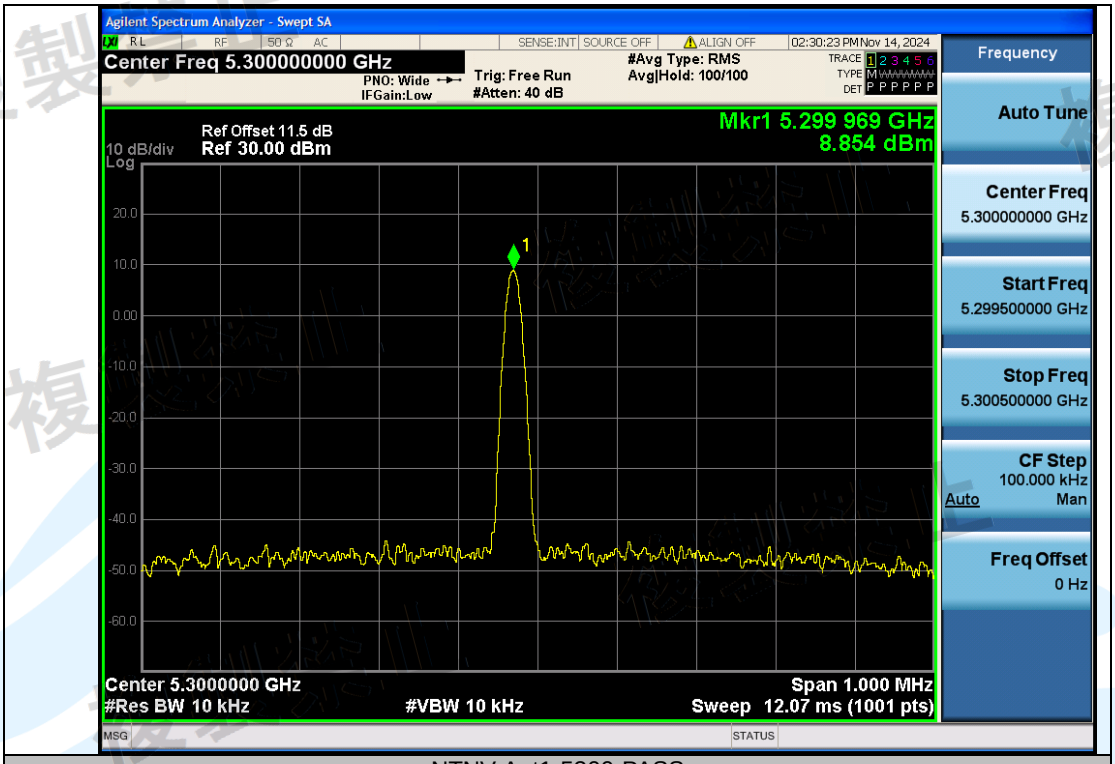
NTNV-Ant2-5240-PASS



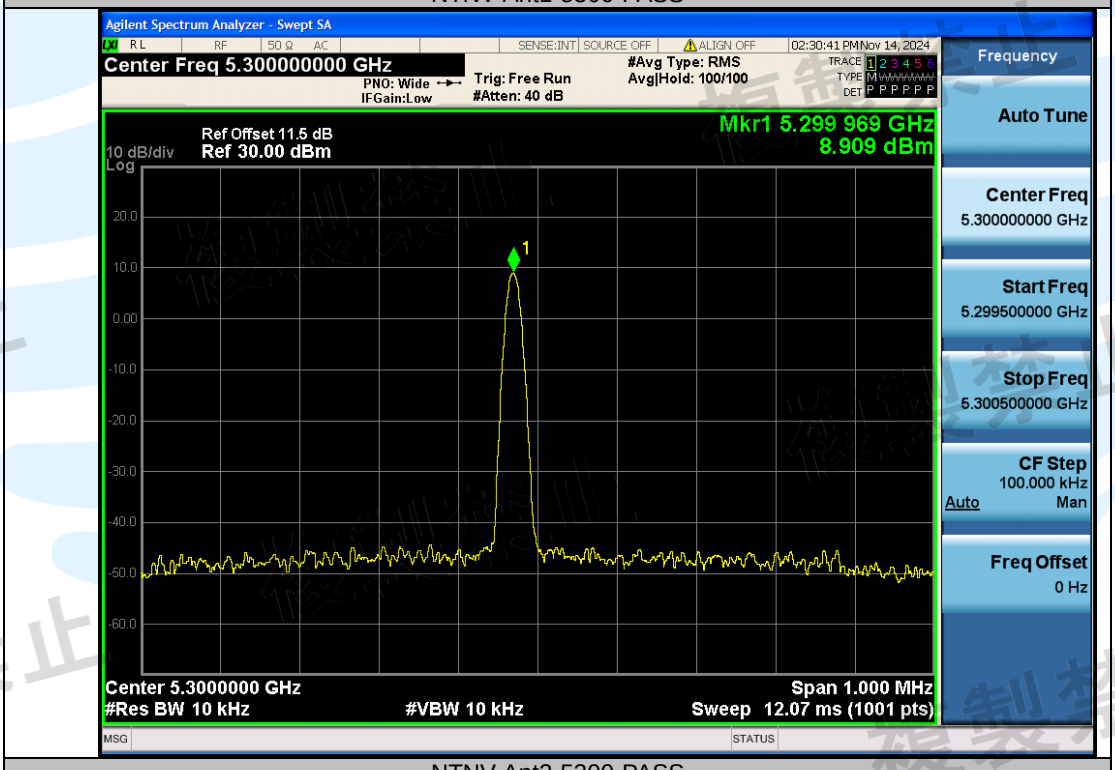
NTNV-Ant1-5260-PASS



NTNV-Ant2-5260-PASS



NTNV-Ant1-5300-PASS



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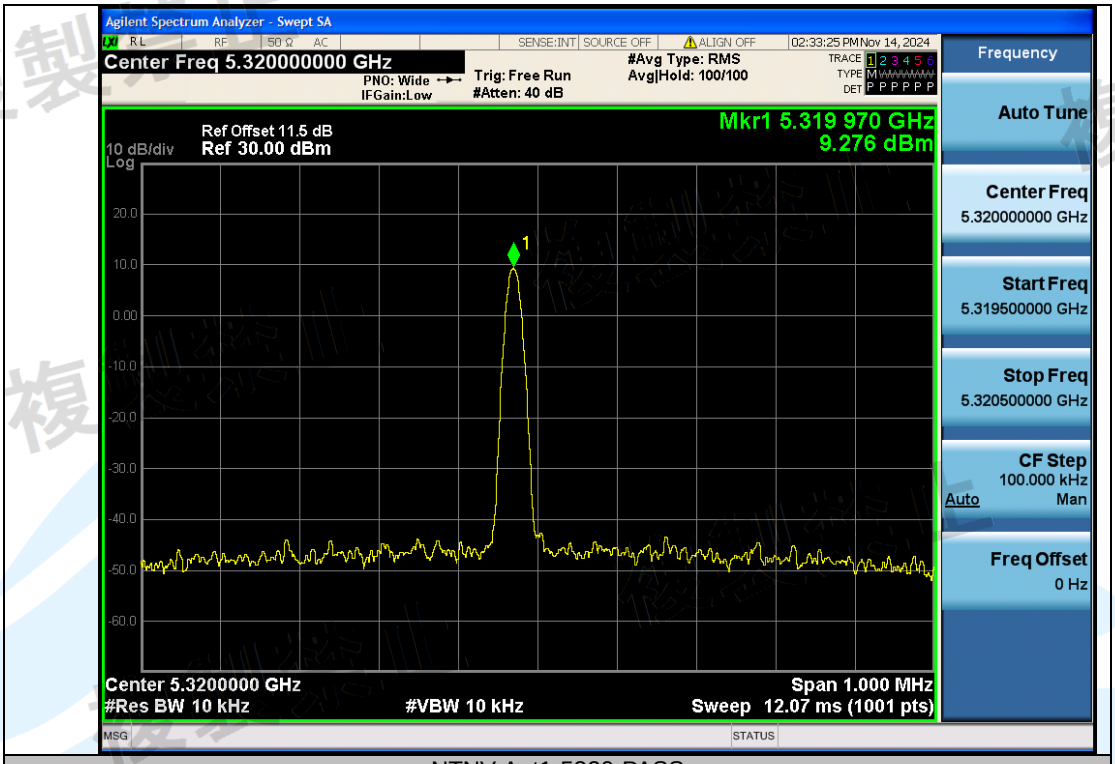
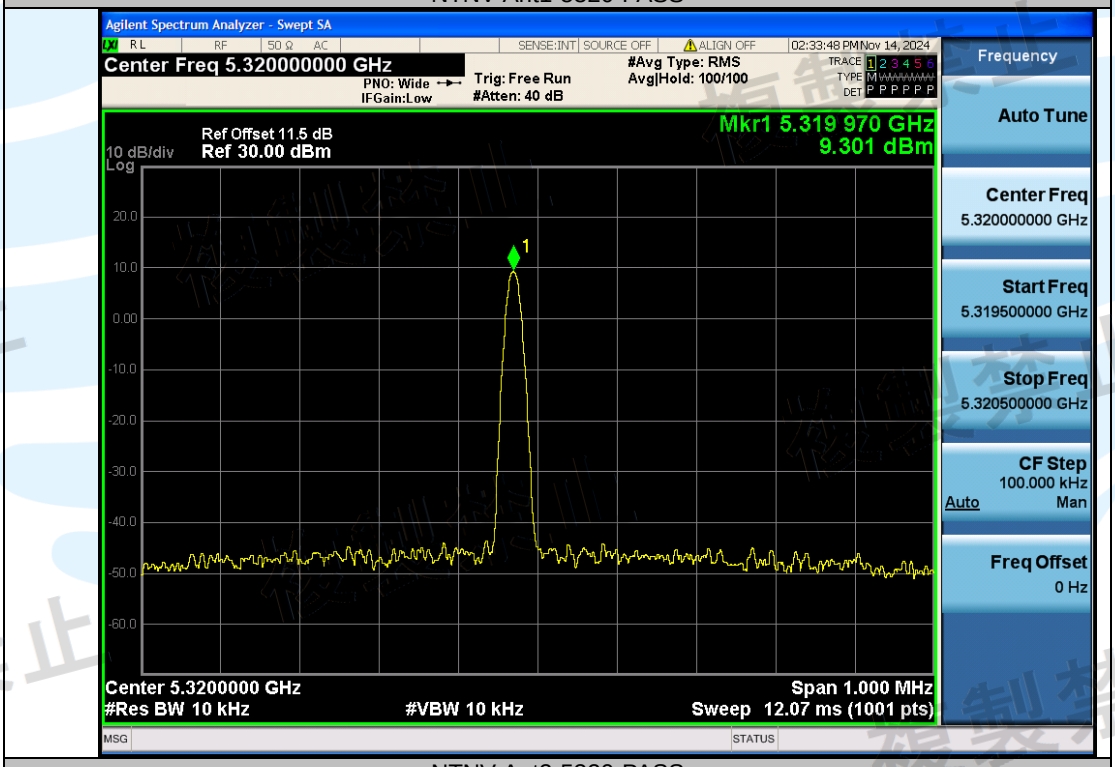
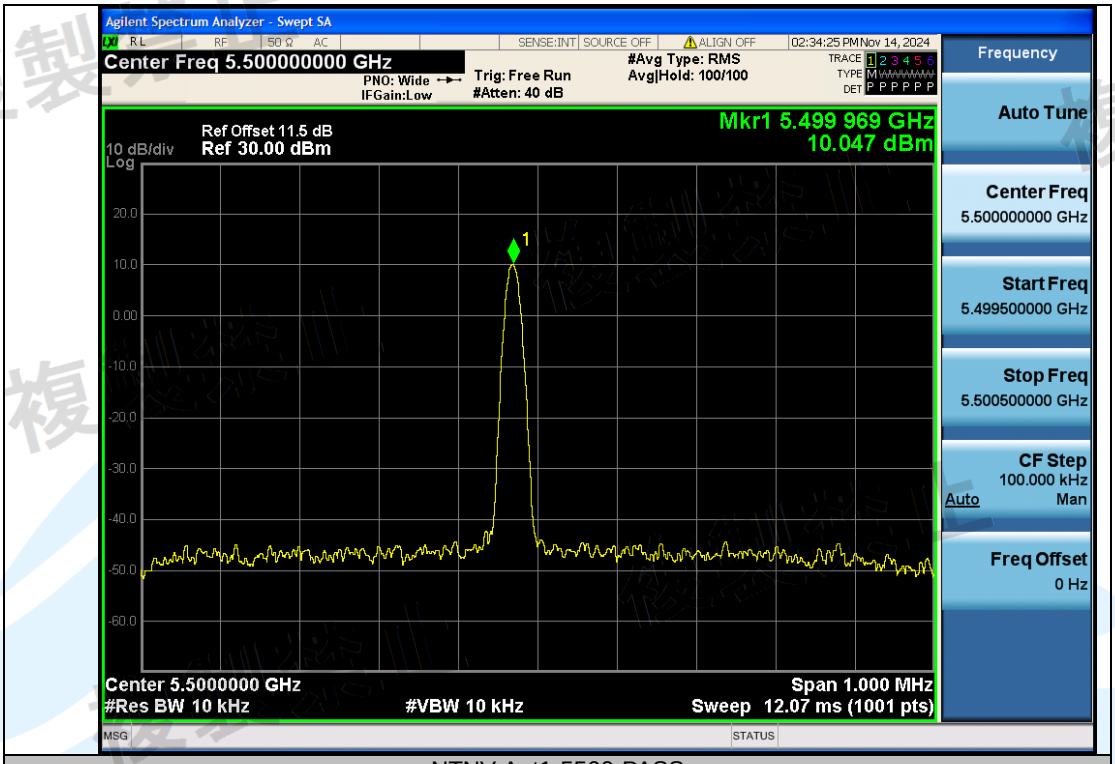


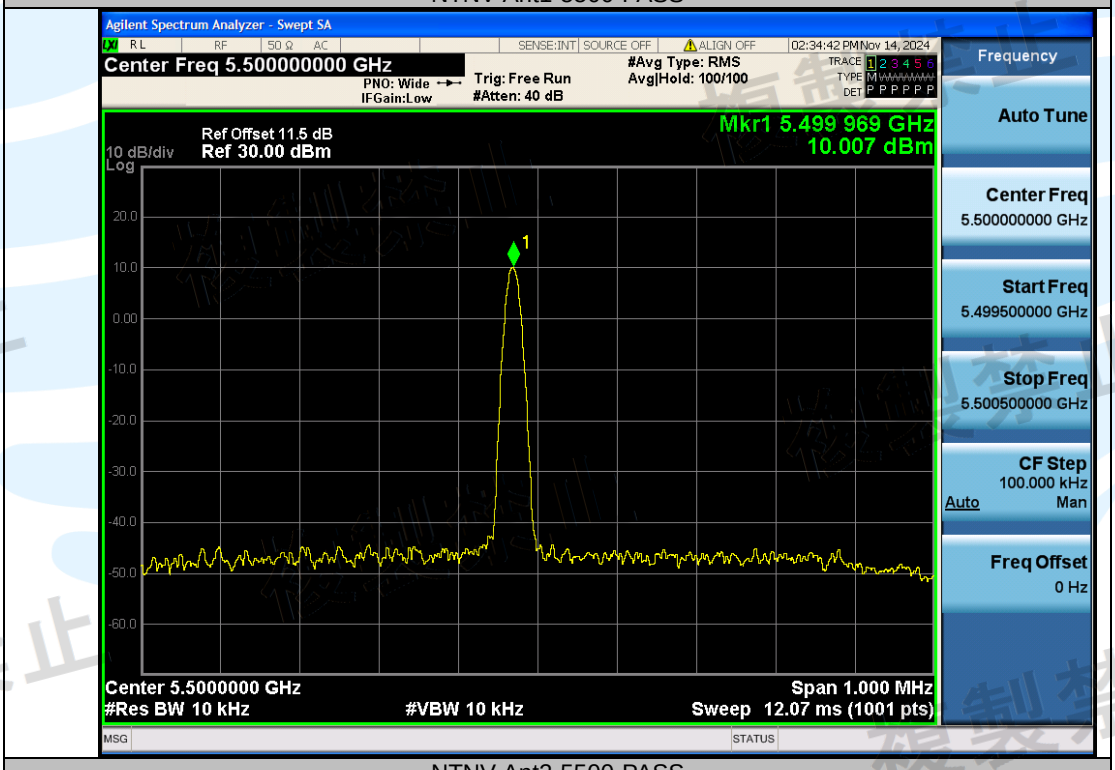
NTNV-Ant1-5320-PASS



NTNV-Ant2-5320-PASS



NTNV-Ant1-5500-PASS



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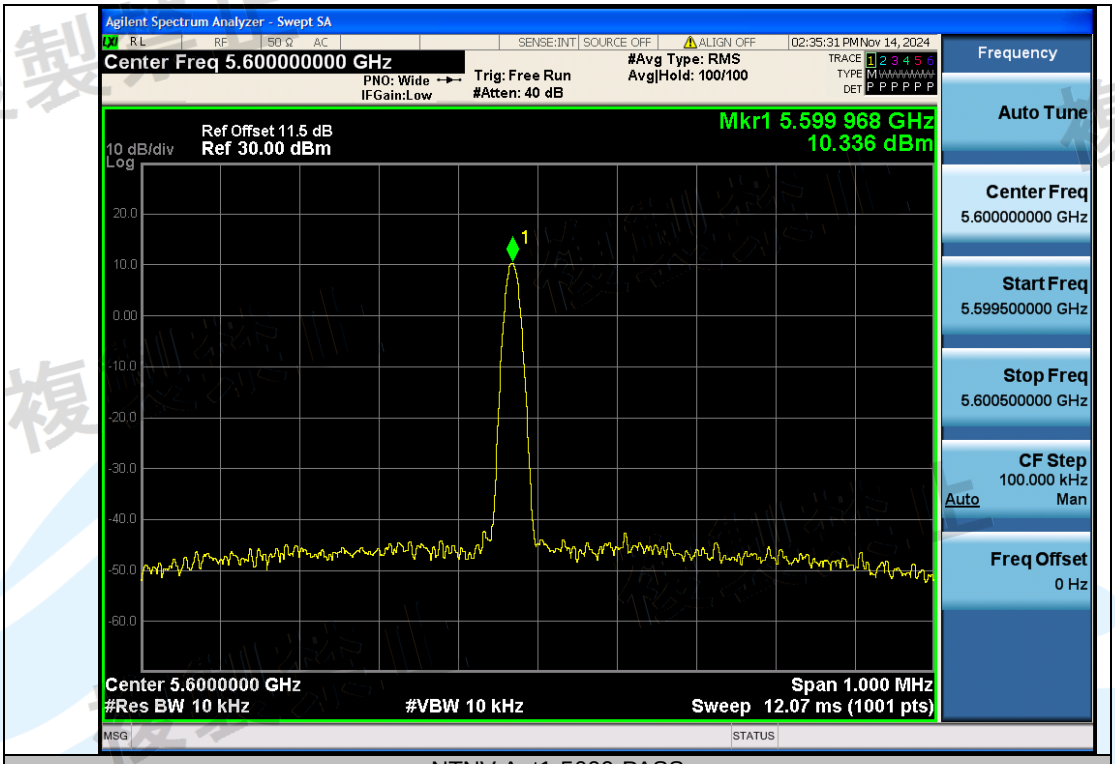
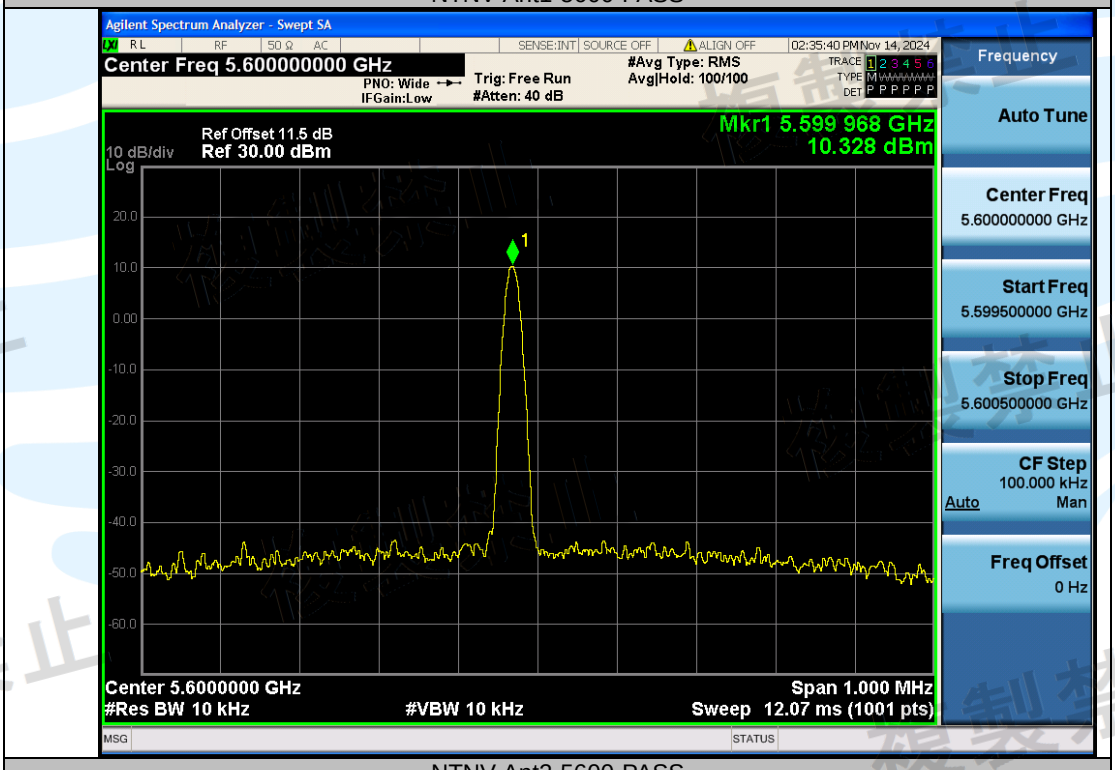
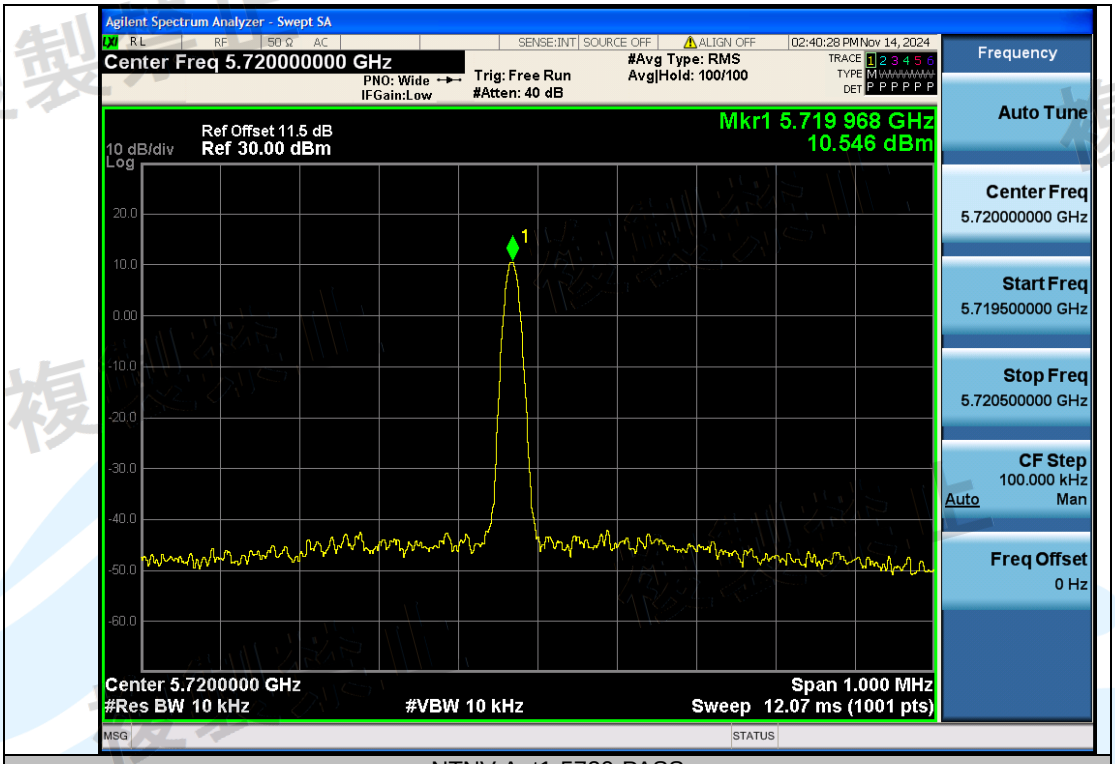


NTNV-Ant1-5600-PASS



NTNV-Ant2-5600-PASS



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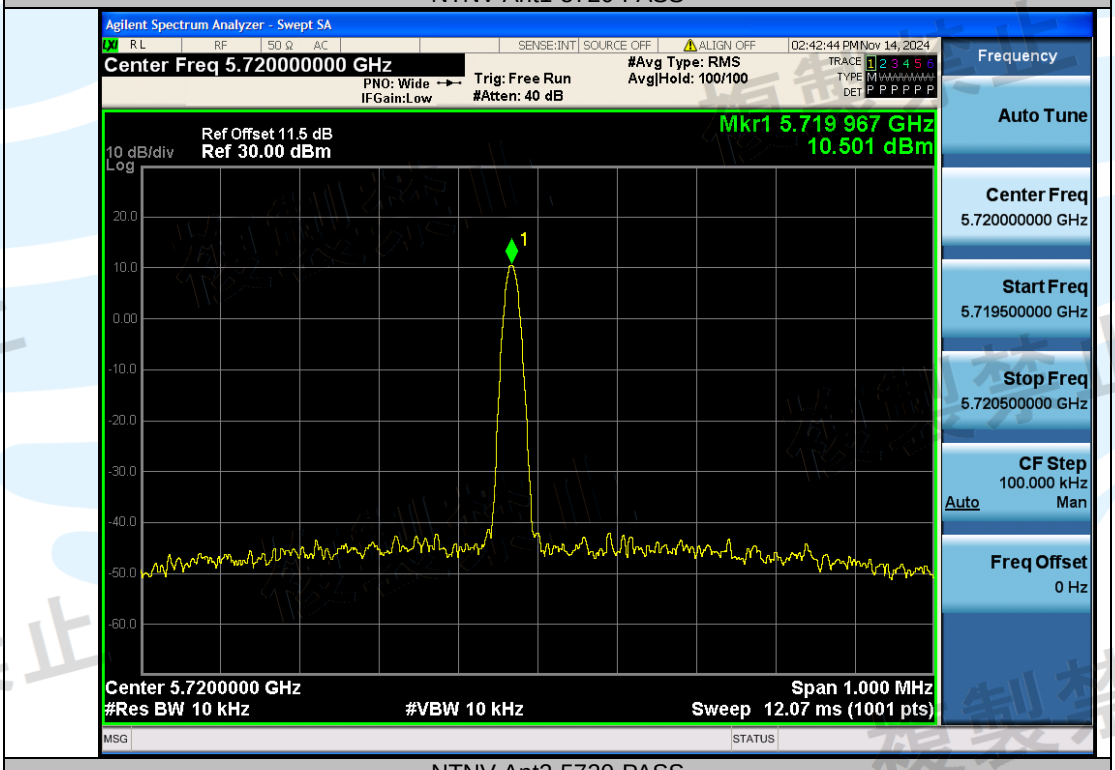
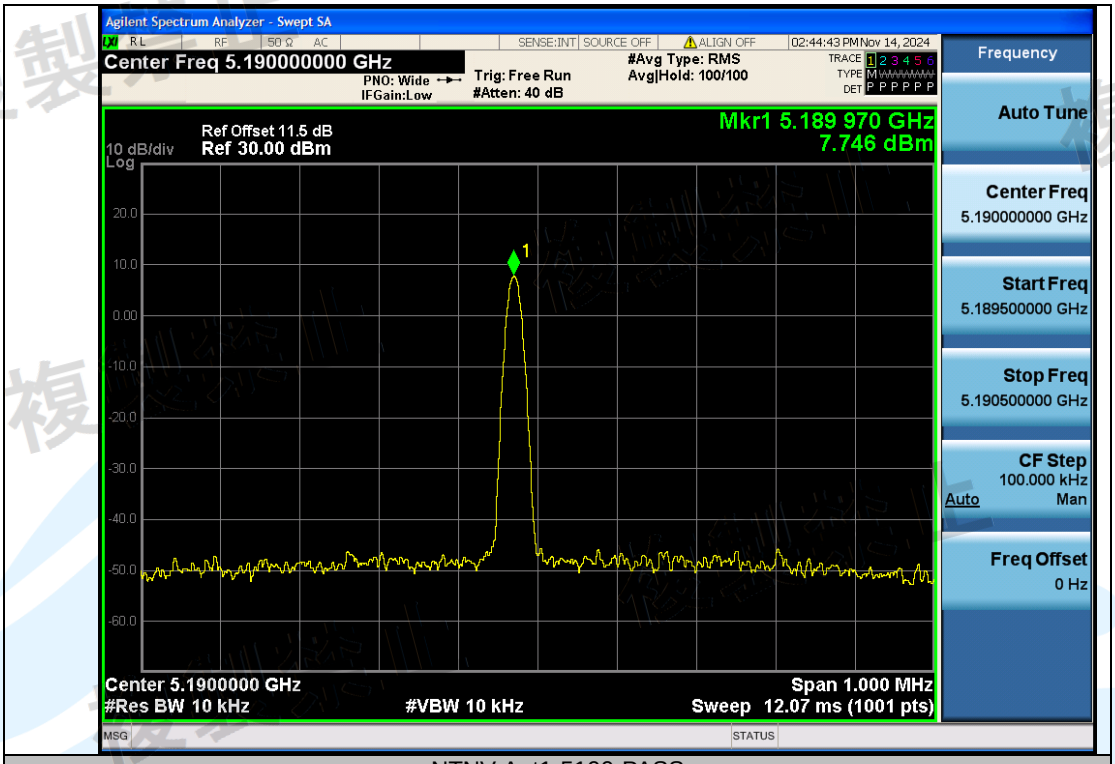
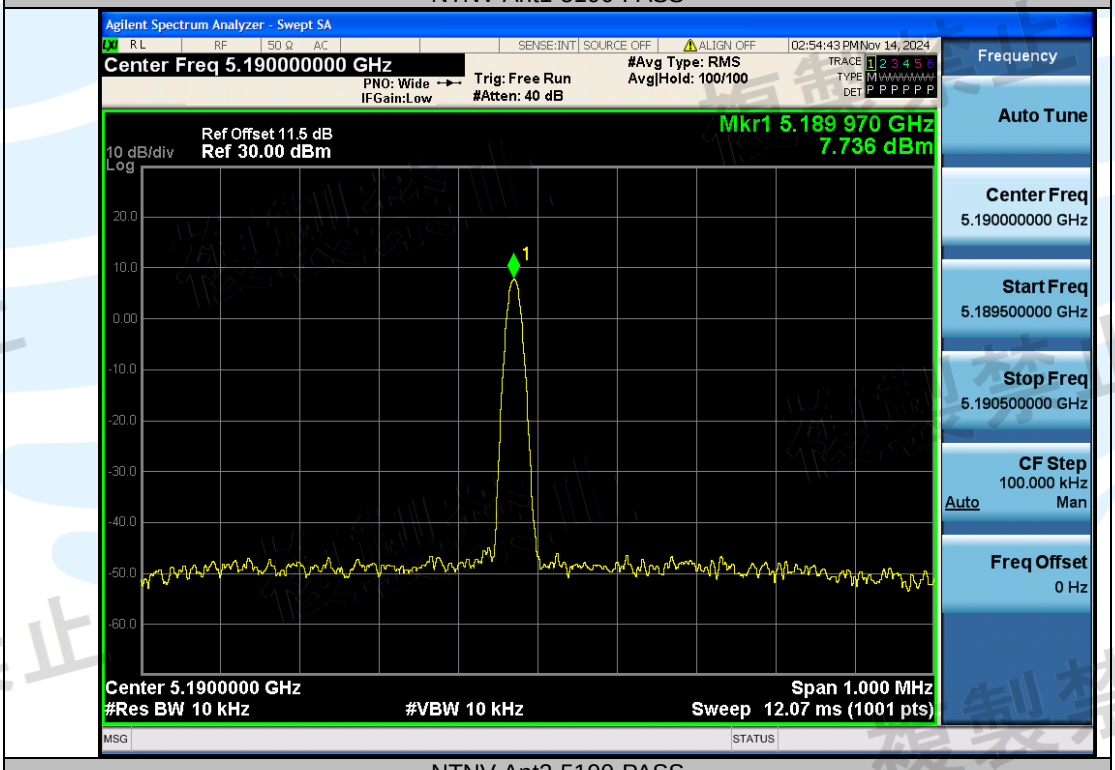


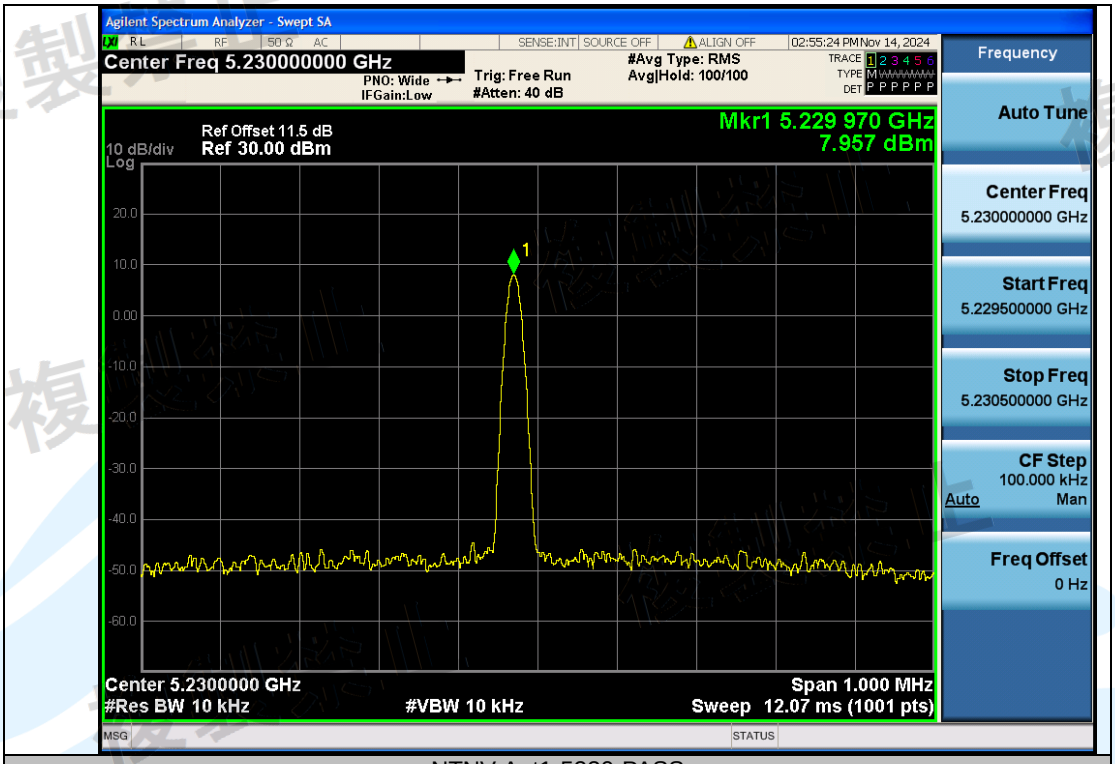
NTNV-Ant2-5720-PASS



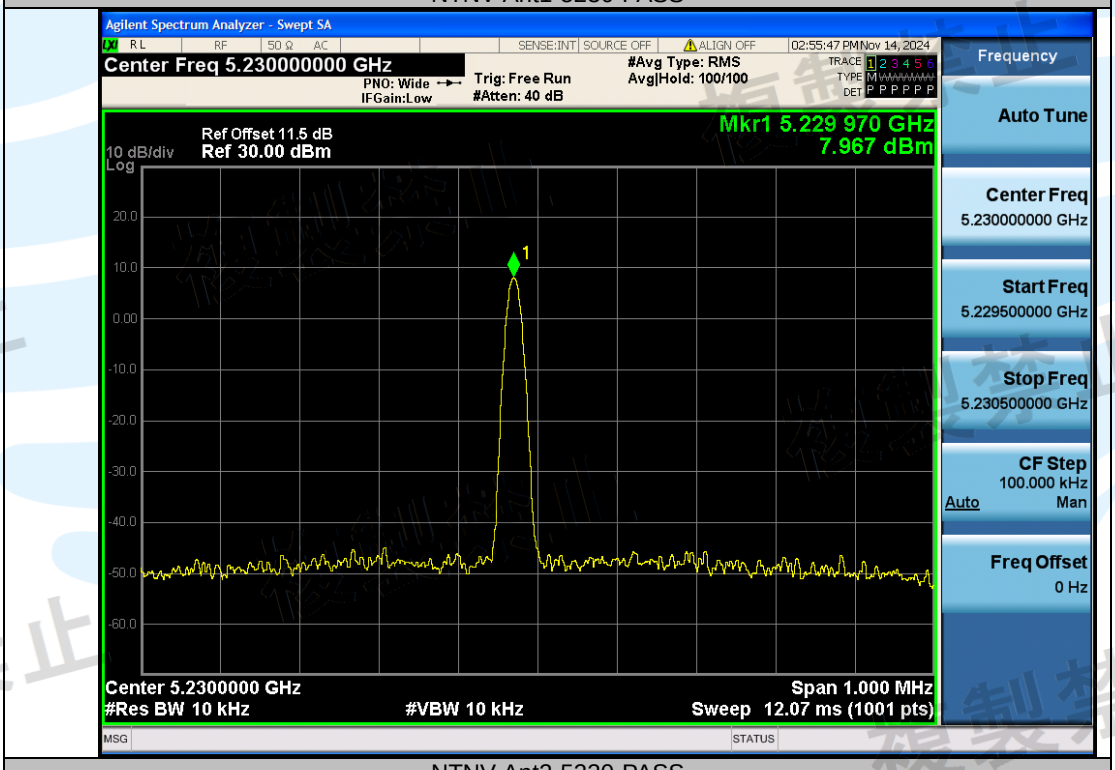
NTNV-Ant1-5190-PASS



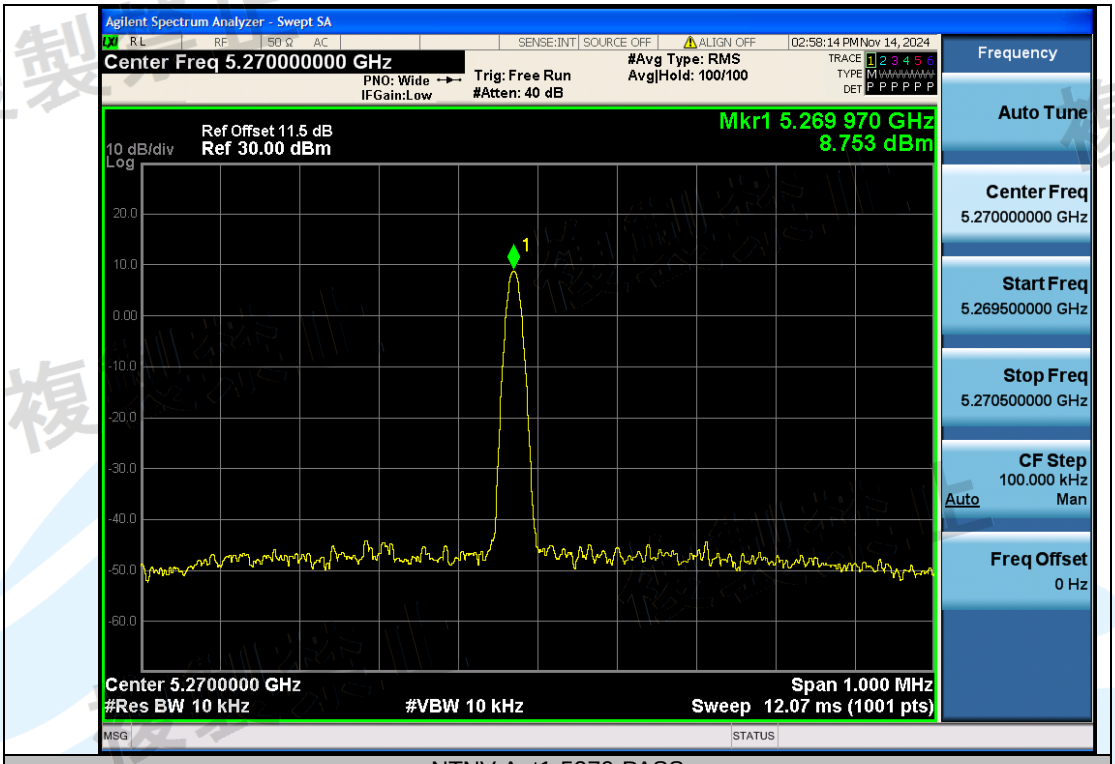
NTNV-Ant2-5190-PASS



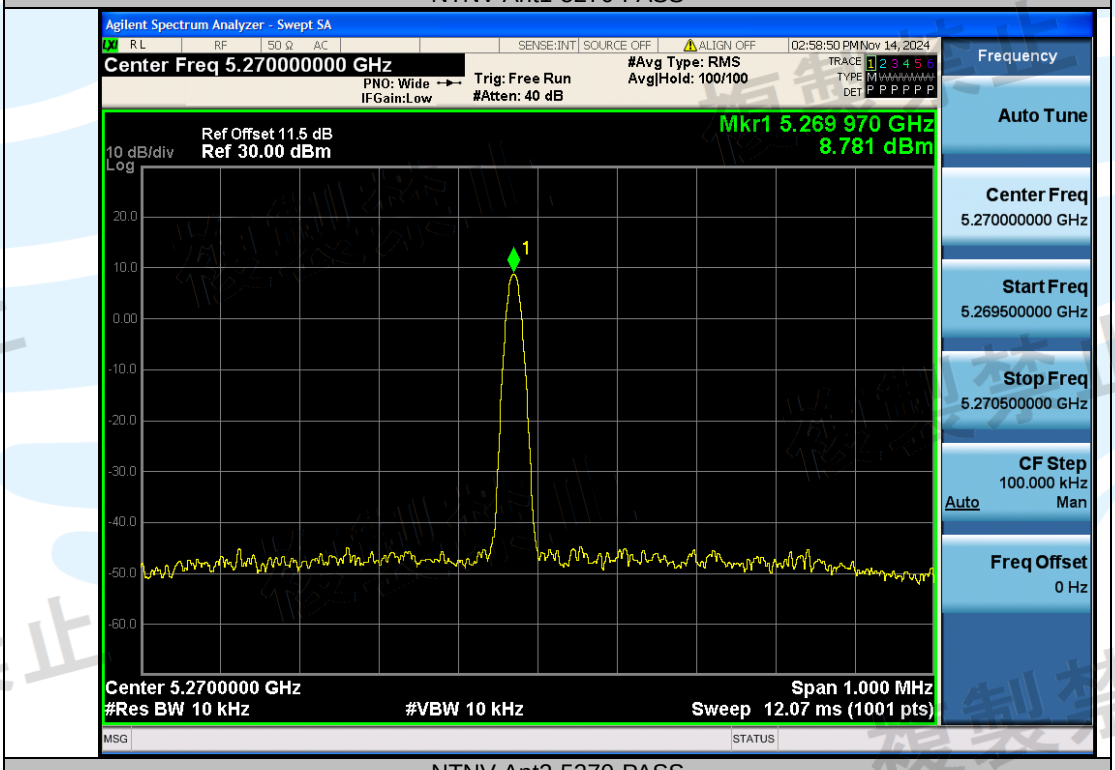
NTNV-Ant1-5230-PASS



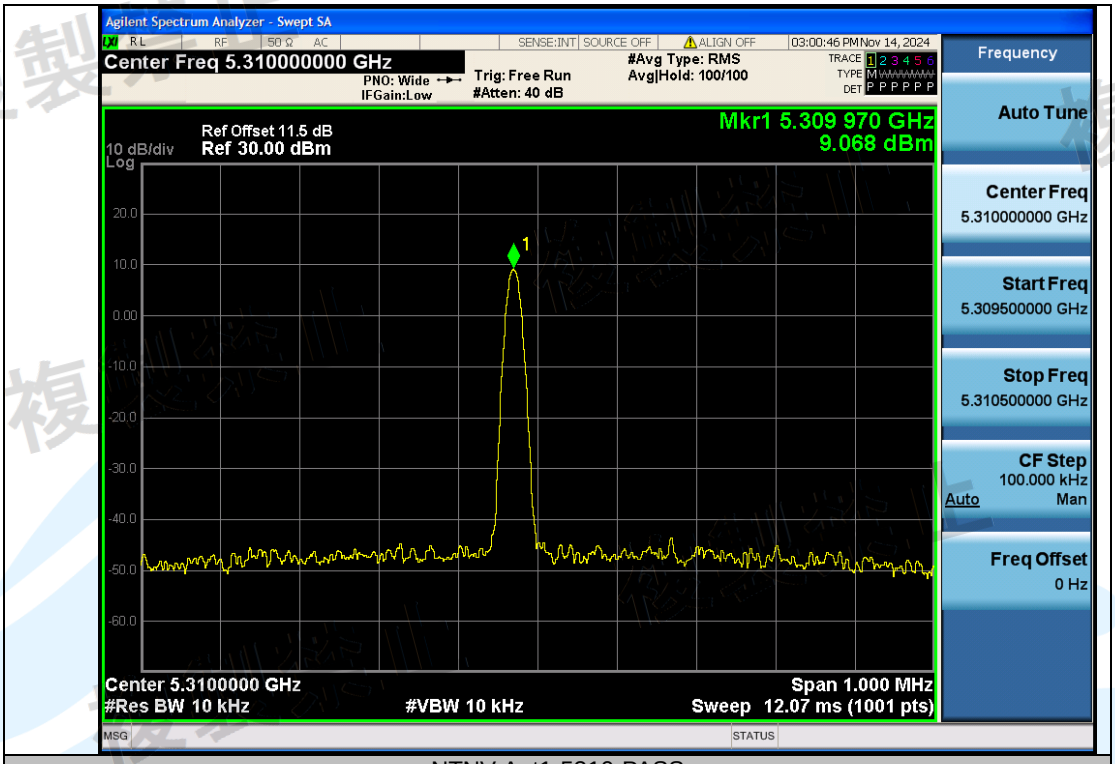
NTNV-Ant2-5230-PASS



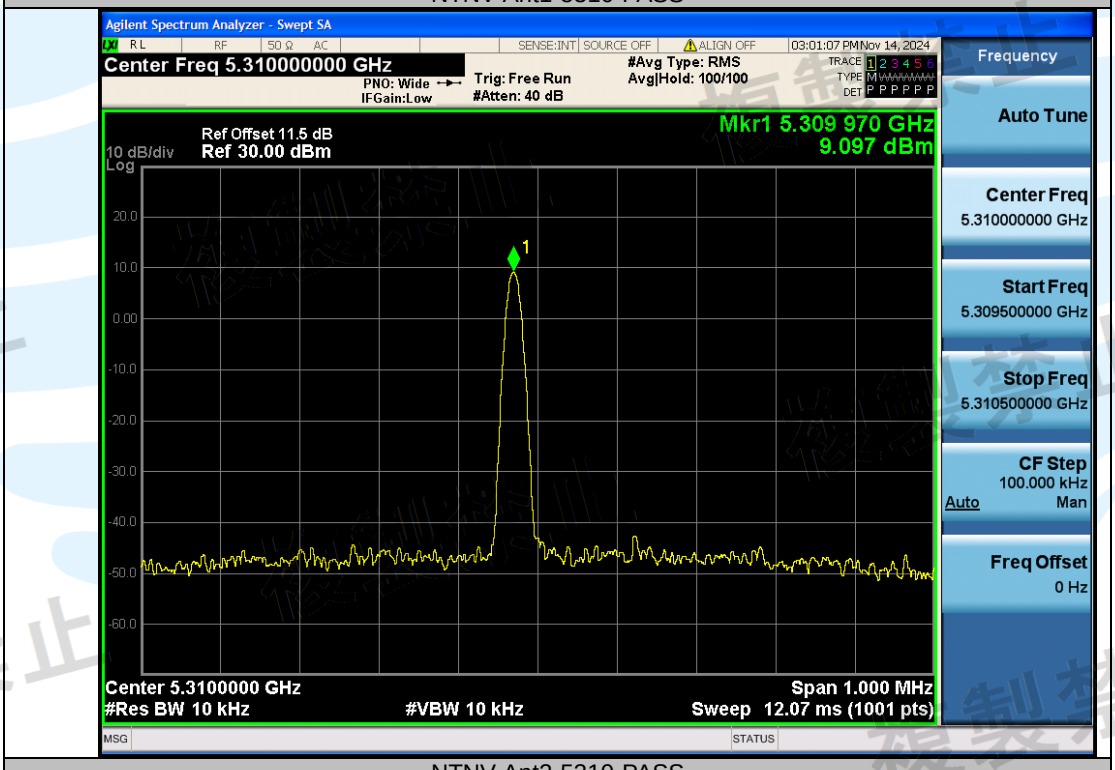
NTNV-Ant1-5270-PASS



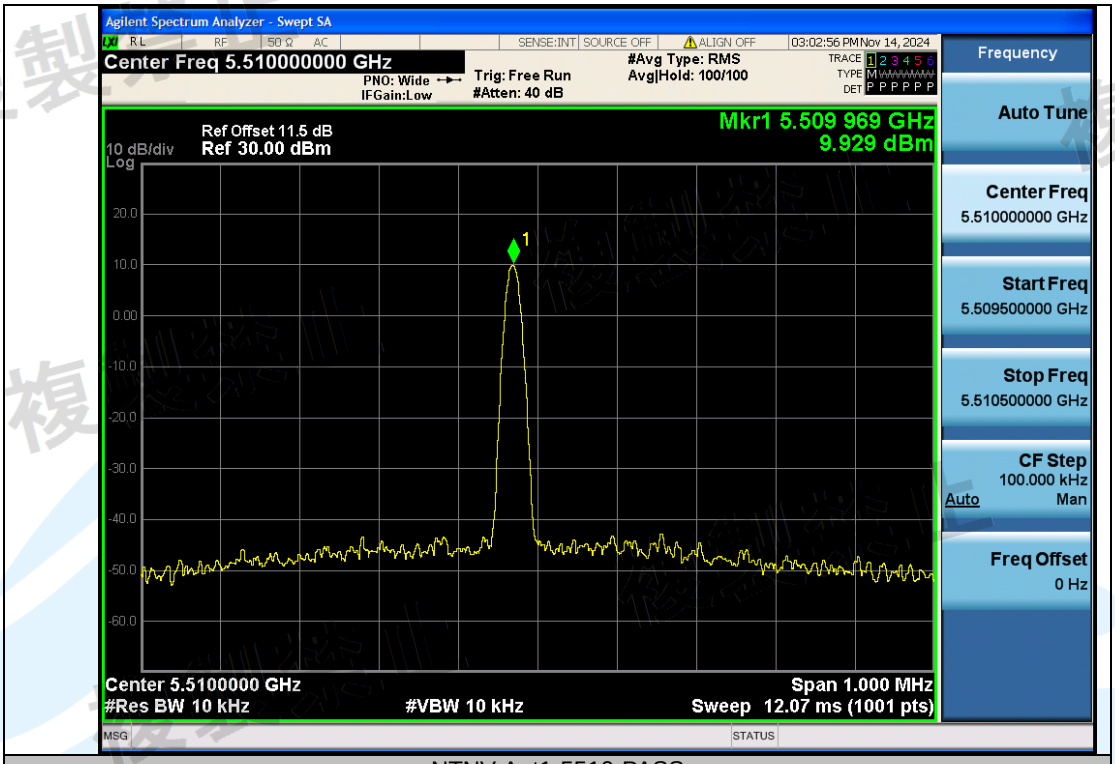
NTNV-Ant2-5270-PASS



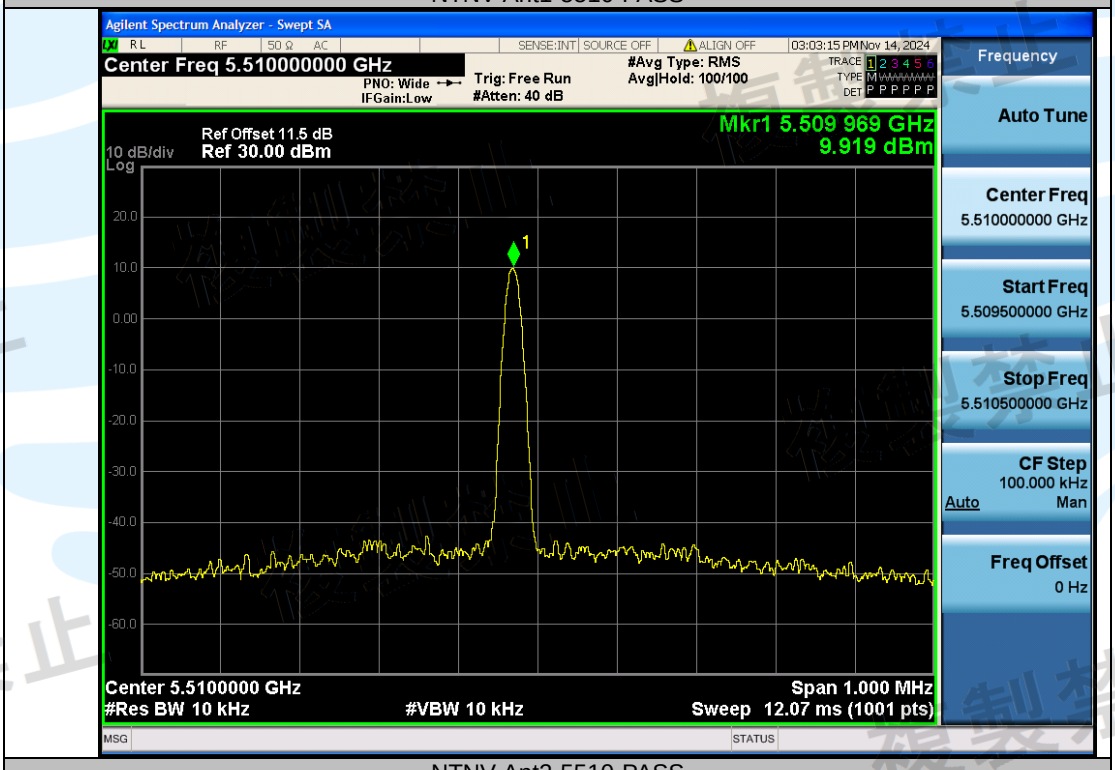
NTNV-Ant1-5310-PASS



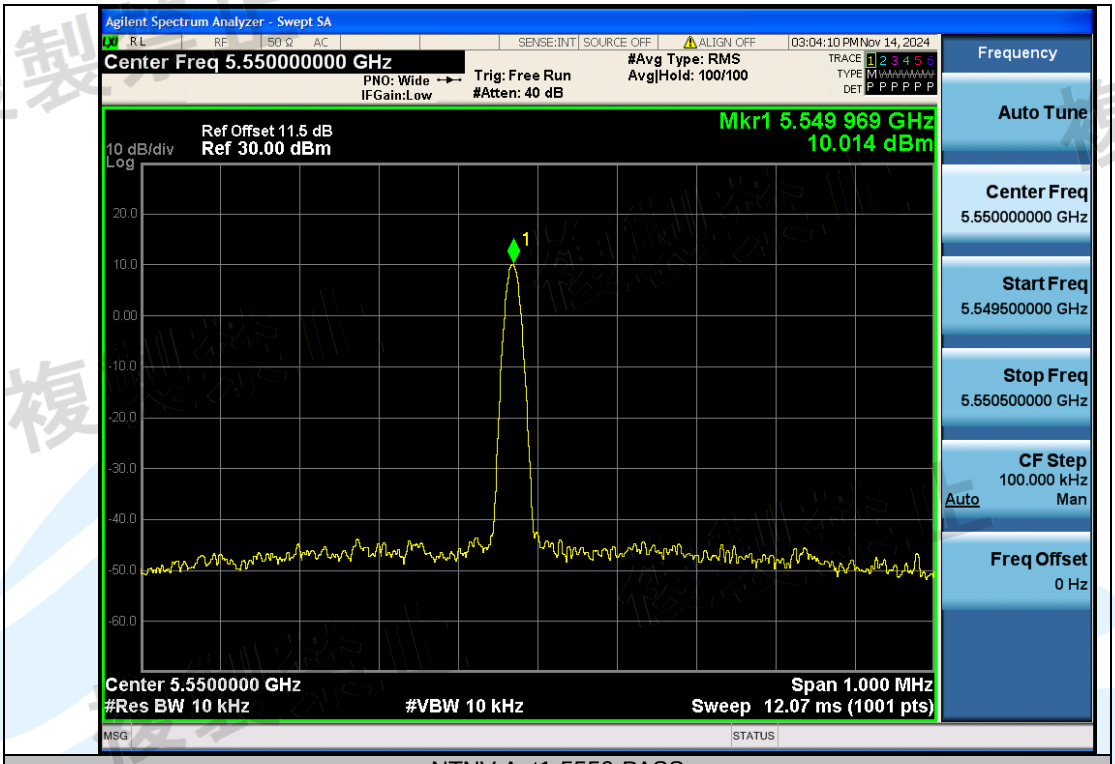
NTNV-Ant2-5310-PASS



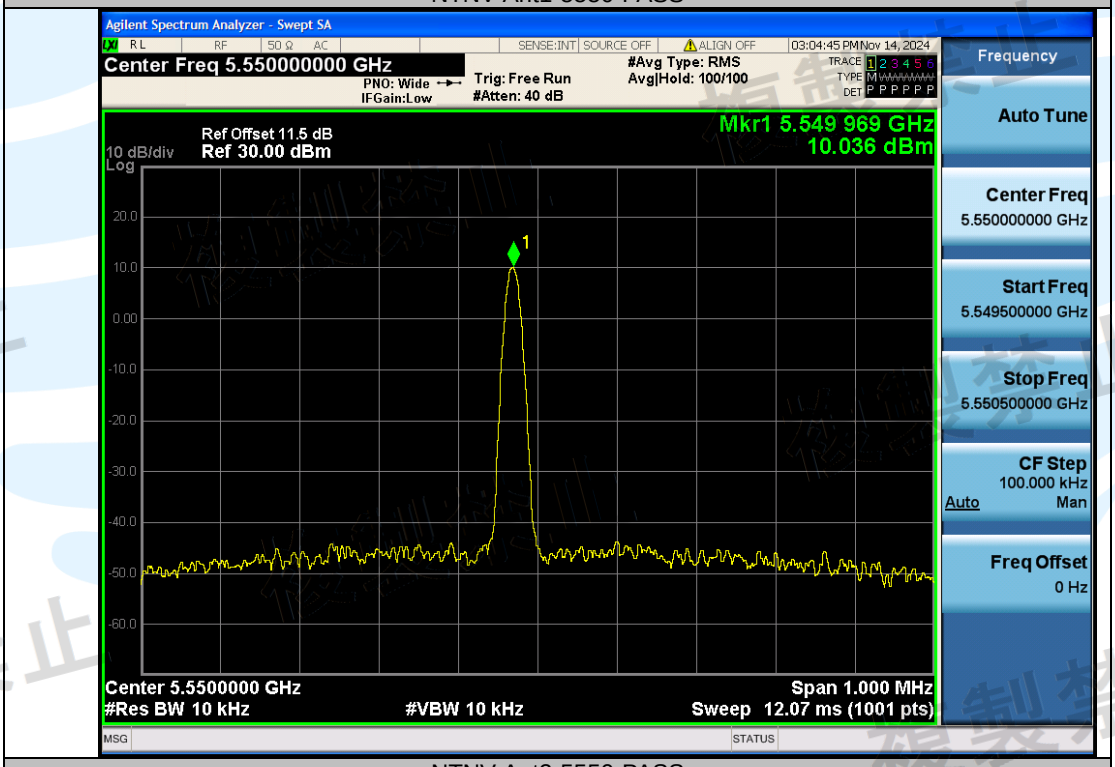
NTNV-Ant1-5510-PASS



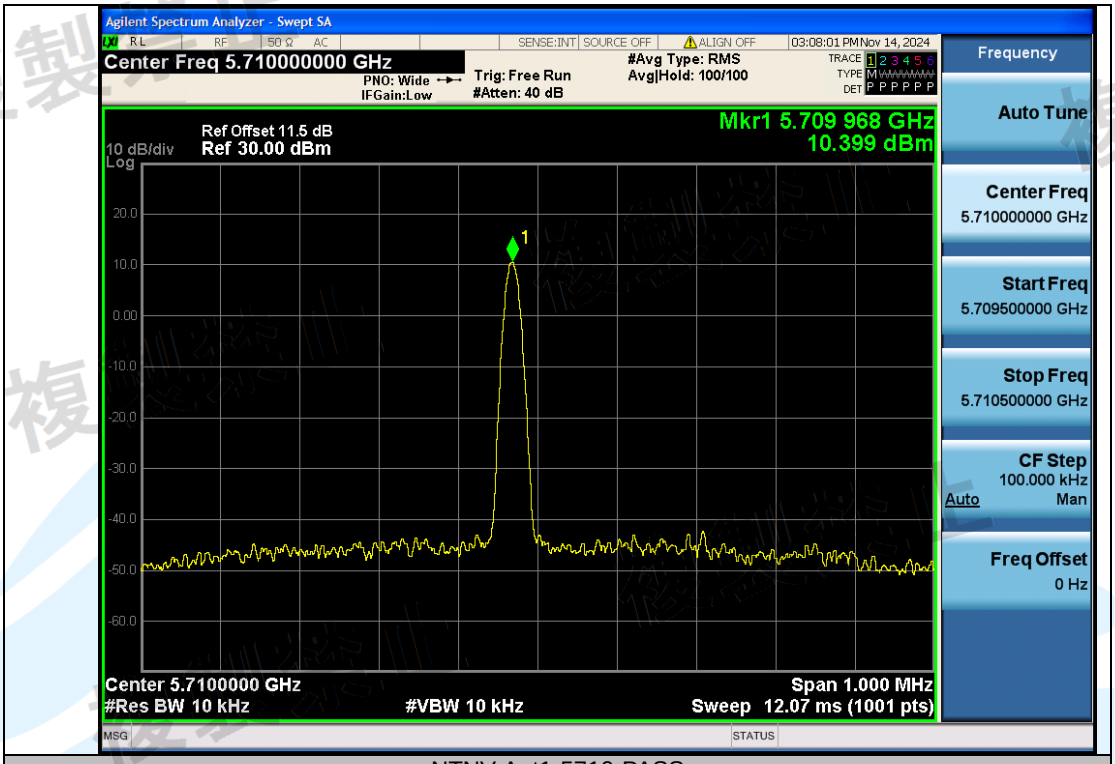
NTNV-Ant2-5510-PASS



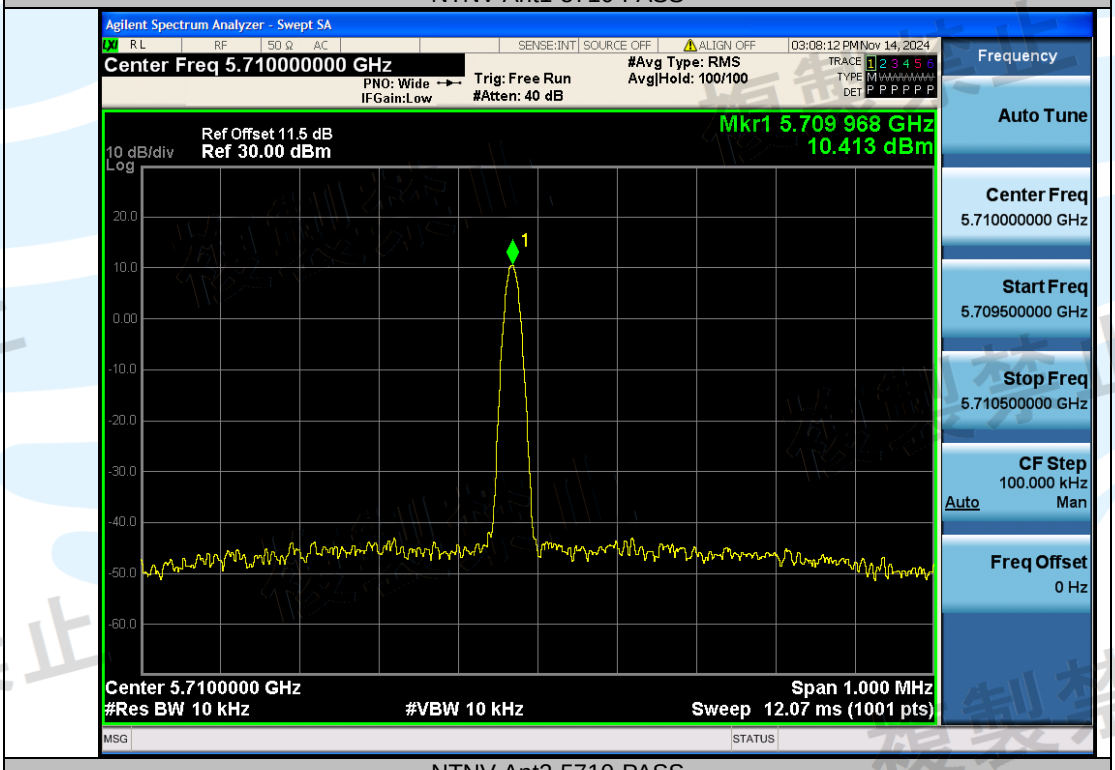
NTNV-Ant1-5550-PASS



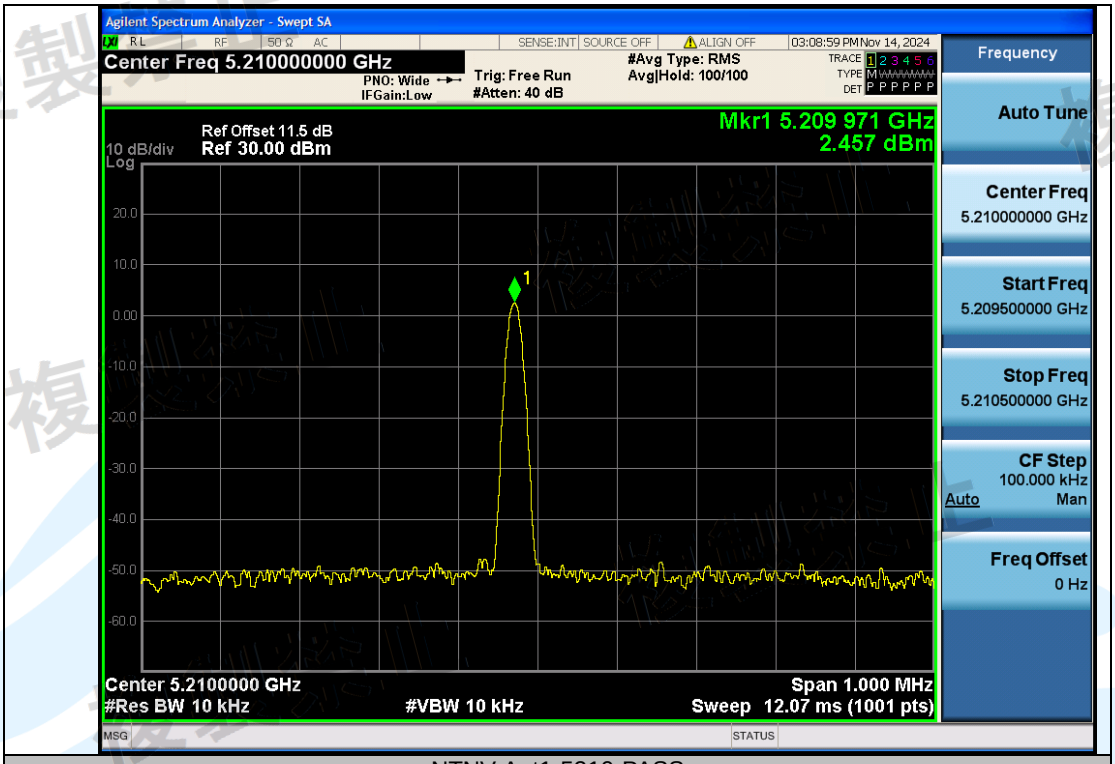
NTNV-Ant2-5550-PASS



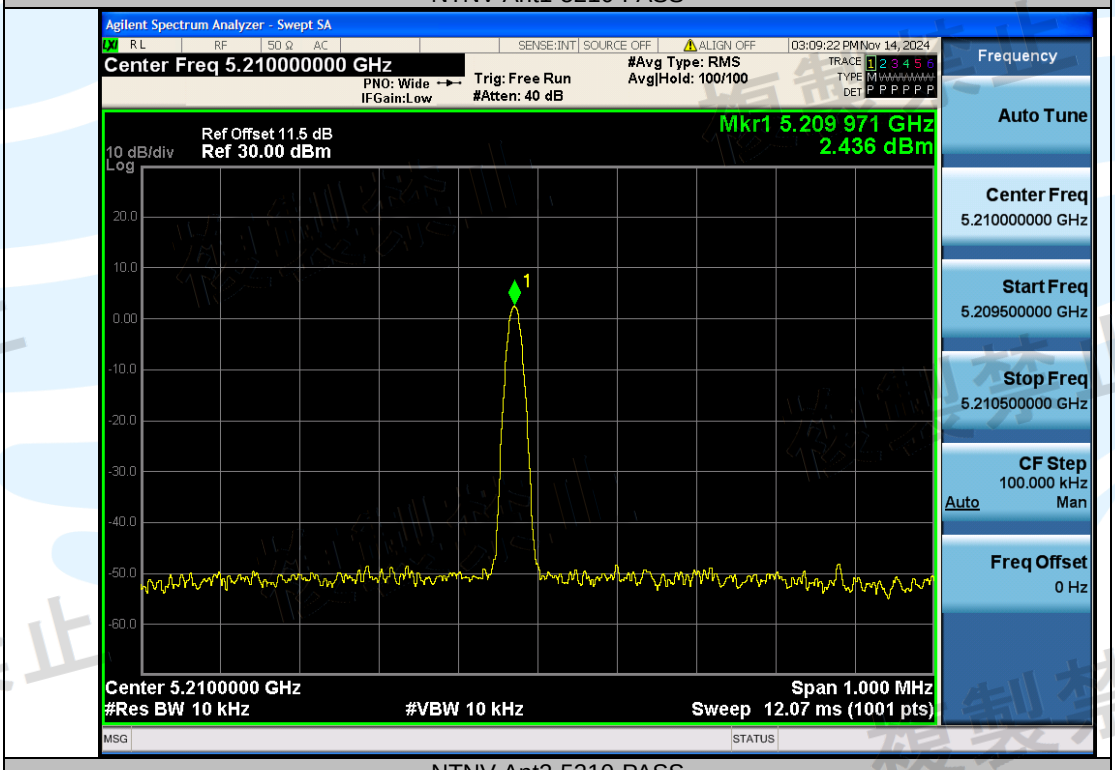
NTNV-Ant1-5710-PASS



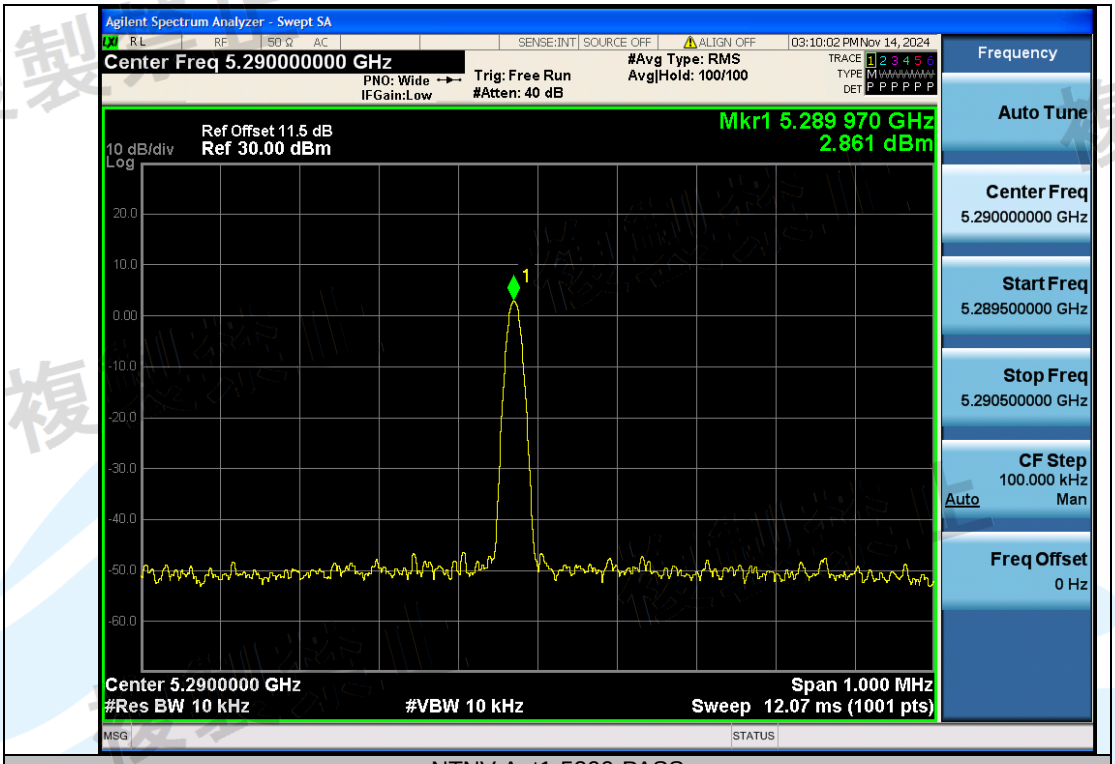
NTNV-Ant2-5710-PASS



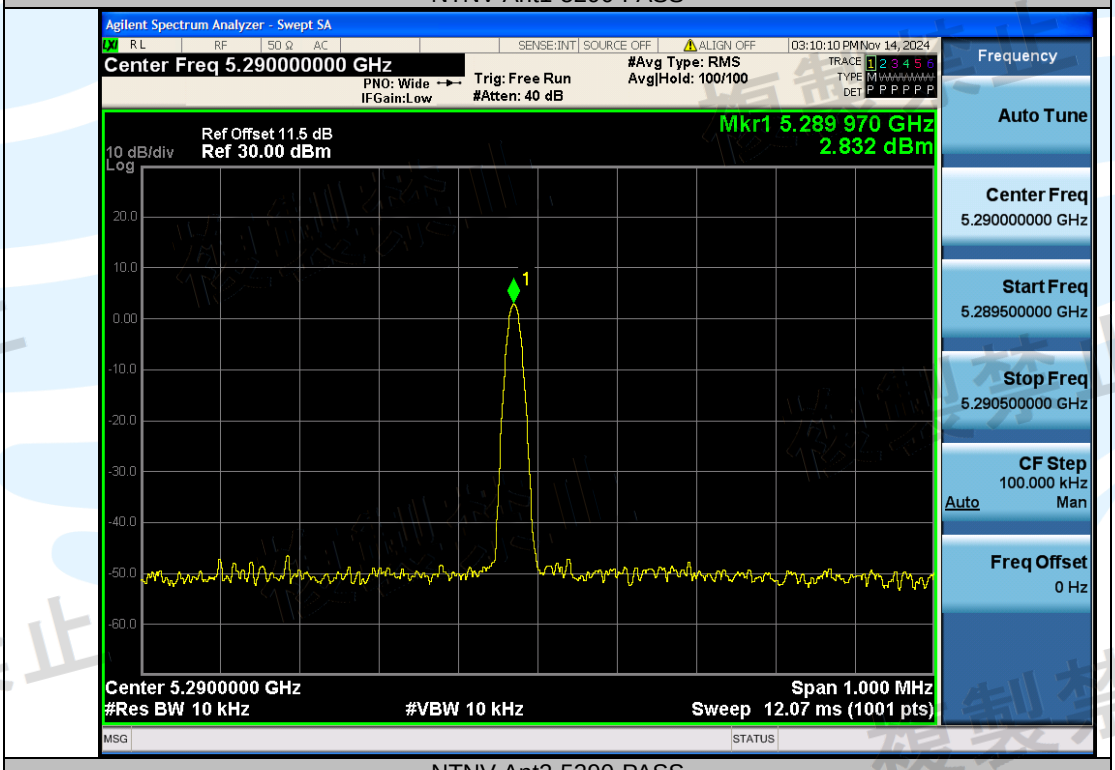
NTNV-Ant1-5210-PASS



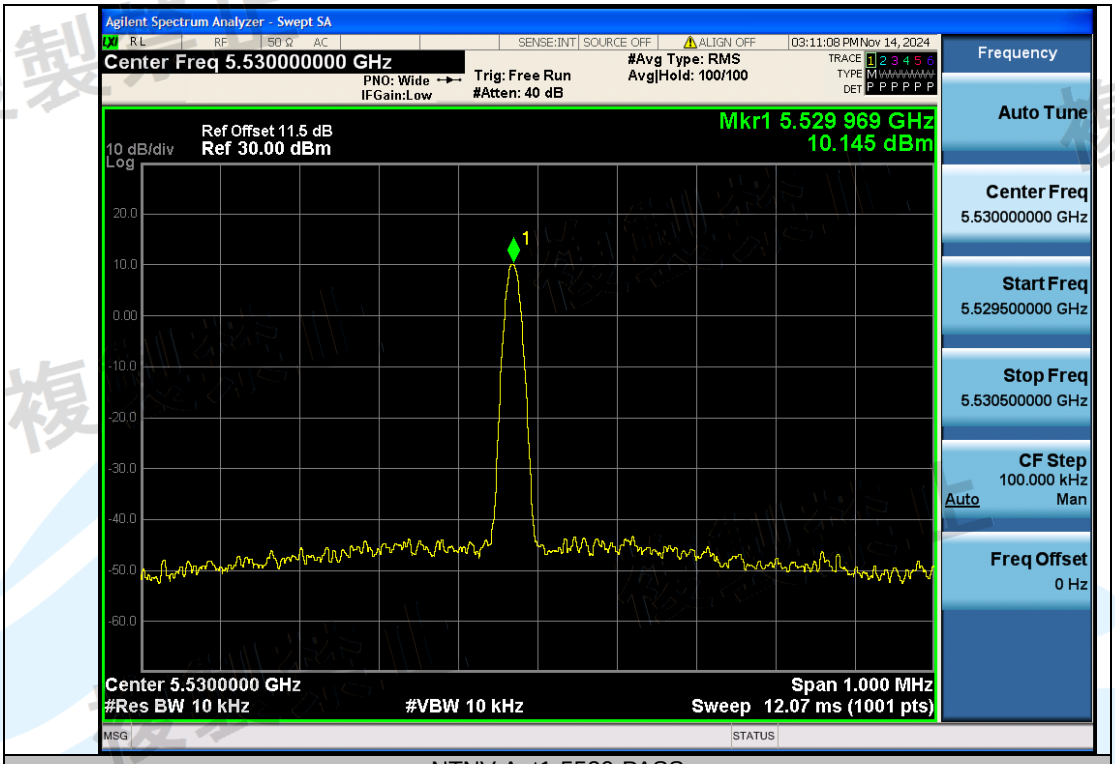
NTNV-Ant2-5210-PASS



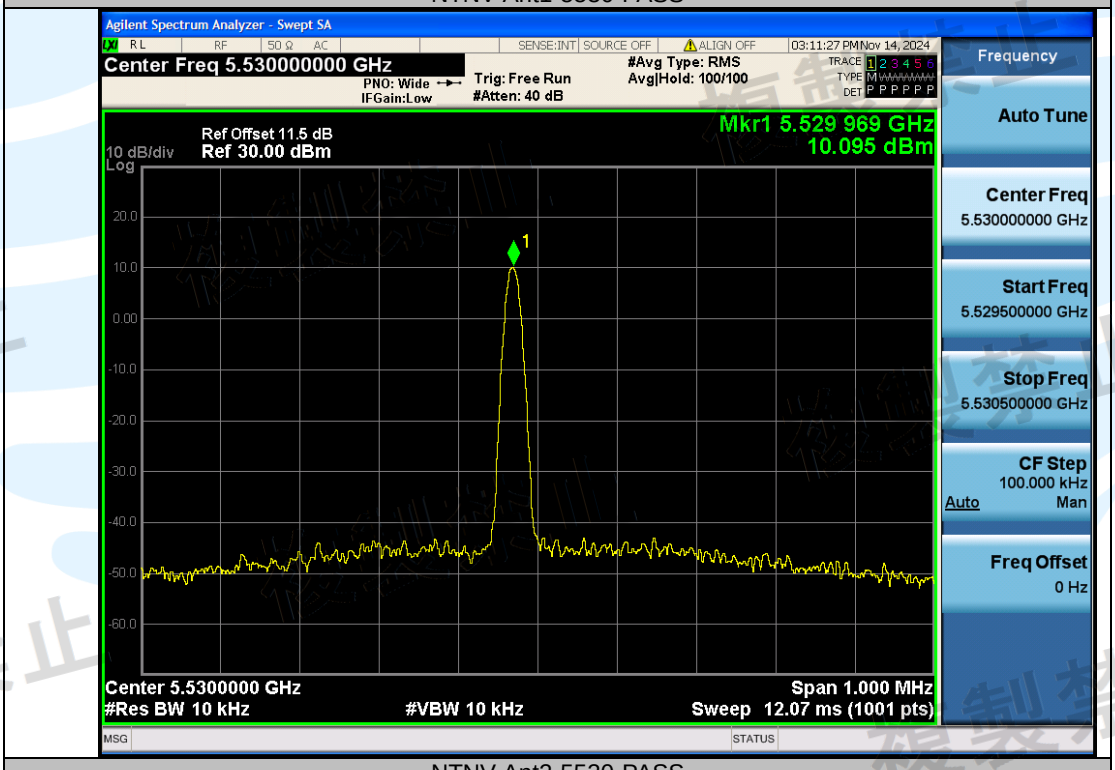
NTNV-Ant1-5290-PASS



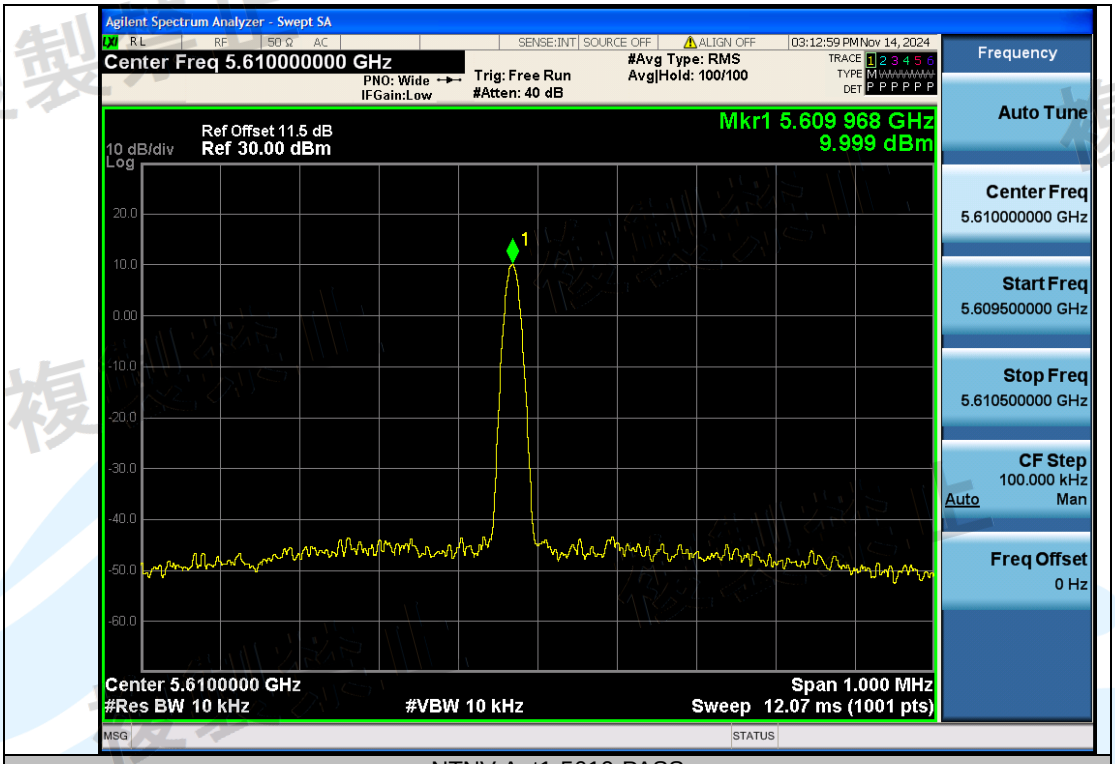
NTNV-Ant2-5290-PASS



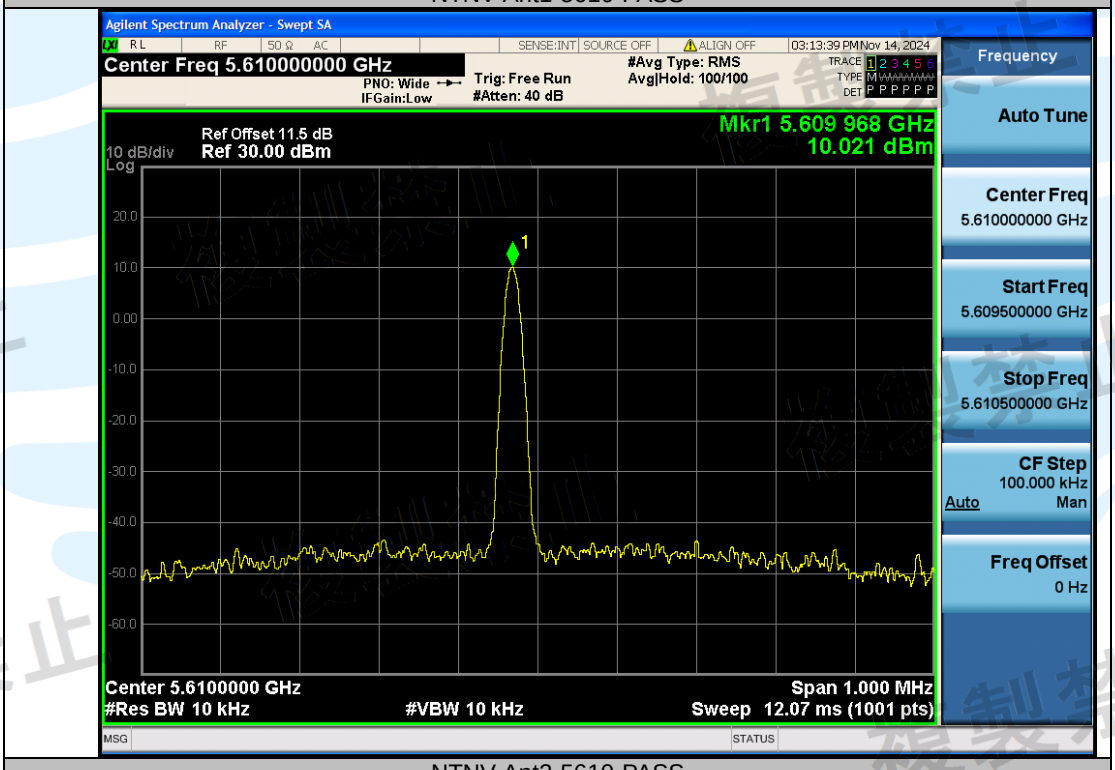
NTNV-Ant1-5530-PASS



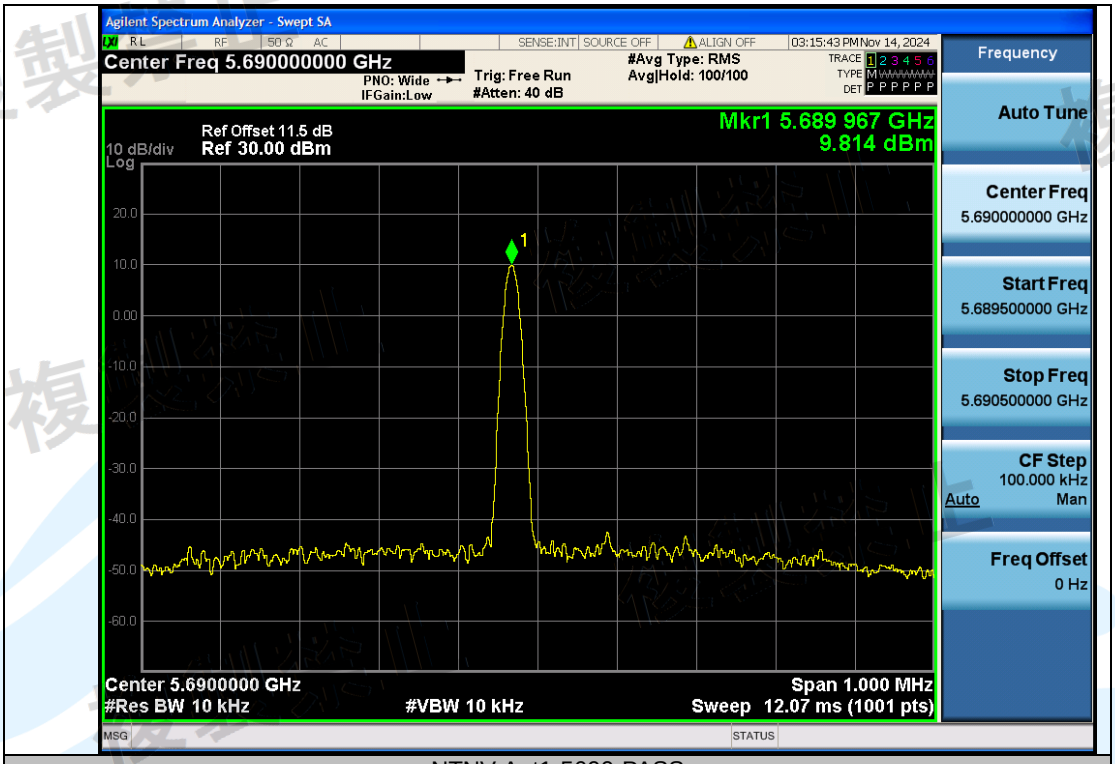
NTNV-Ant2-5530-PASS



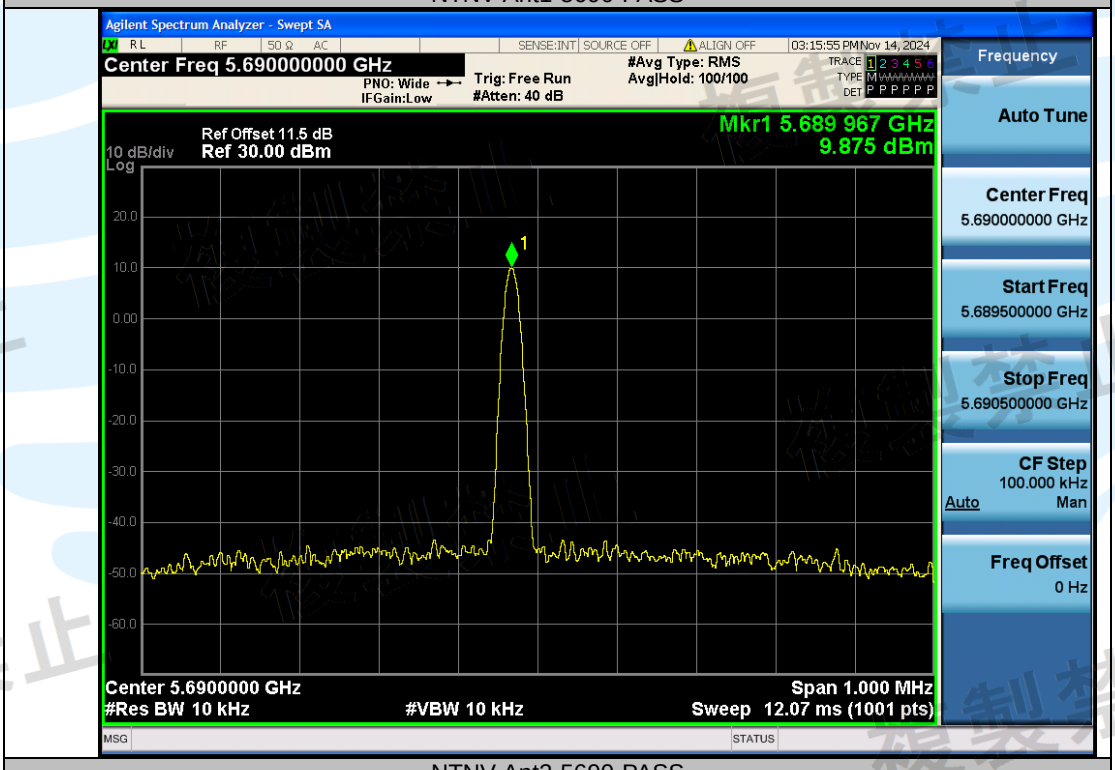
NTNV-Ant1-5610-PASS



NTNV-Ant2-5610-PASS



NTNV-Ant1-5690-PASS



NTNV-Ant2-5690-PASS

5.4 OCCUPIED BANDWIDTH (99% BW)

5.4.1 Limit

Item	Limits
Occupied Bandwidth	**For BW = 20MHz:** ≤ 20MHz
	For BW = 40MHz: ≤ 40MHz
	For BW = 80MHz: ≤ 80MHz

5.4.2 Test Setup

Refer to section 4.5 for details.

5.4.3 Instruments Used

Refer to section 3 for details

5.4.4 Test Procedures

Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.

Use the following spectrum analyzer settings:

1. Center Frequency = test frequency
2. Span = 2 to 3.5 times BW
3. RBW = 300kHz, VBW = 300kHz;
4. Sweep = auto;
5. Trace = max hold
6. Use the 99 % bandwidth function of the spectrum analyser to measure the Occupied Channel Bandwidth of the UUT. This value shall be recorded.

5.4.5 Test Result

Test Condition	Test Mode	Antenna	Frequency [MHz]	Result [MHz]	Limit [MHz]	Verdict
NTNV	11A	Ant1	5180	16.567	≤20	PASS
NTNV	11A	Ant2	5180	16.603	≤20	PASS
NTNV	11A	Ant1	5220	16.655	≤20	PASS
NTNV	11A	Ant2	5220	16.610	≤20	PASS
NTNV	11A	Ant1	5240	16.646	≤20	PASS
NTNV	11A	Ant2	5240	16.589	≤20	PASS
NTNV	11A	Ant1	5260	16.630	≤20	PASS
NTNV	11A	Ant2	5260	16.610	≤20	PASS
NTNV	11A	Ant1	5300	16.562	≤20	PASS
NTNV	11A	Ant2	5300	16.558	≤20	PASS
NTNV	11A	Ant1	5320	16.733	≤20	PASS
NTNV	11A	Ant2	5320	16.646	≤20	PASS
NTNV	11A	Ant1	5500	16.700	≤20	PASS
NTNV	11A	Ant2	5500	16.614	≤20	PASS
NTNV	11A	Ant1	5600	16.683	≤20	PASS
NTNV	11A	Ant2	5600	16.599	≤20	PASS
NTNV	11A	Ant1	5720	16.584	≤20	PASS
NTNV	11A	Ant2	5720	16.635	≤20	PASS
NTNV	11N20MIMO	Ant1	5180	17.753	≤20	PASS
NTNV	11N20MIMO	Ant2	5180	17.782	≤20	PASS
NTNV	11N20MIMO	Ant1	5220	17.864	≤20	PASS
NTNV	11N20MIMO	Ant2	5220	17.744	≤20	PASS
NTNV	11N20MIMO	Ant1	5240	17.701	≤20	PASS
NTNV	11N20MIMO	Ant2	5240	17.849	≤20	PASS
NTNV	11N20MIMO	Ant1	5260	17.847	≤20	PASS
NTNV	11N20MIMO	Ant2	5260	17.873	≤20	PASS
NTNV	11N20MIMO	Ant1	5300	17.735	≤20	PASS
NTNV	11N20MIMO	Ant2	5300	17.739	≤20	PASS
NTNV	11N20MIMO	Ant1	5320	17.745	≤20	PASS

Test Condition	Test Mode	Antenna	Frequency [MHz]	Result [MHz]	Limit [MHz]	Verdict
NTNV	11N20MIMO	Ant2	5320	17.833	≤20	PASS
NTNV	11N20MIMO	Ant1	5500	17.735	≤20	PASS
NTNV	11N20MIMO	Ant2	5500	17.702	≤20	PASS
NTNV	11N20MIMO	Ant1	5600	17.803	≤20	PASS
NTNV	11N20MIMO	Ant2	5600	17.830	≤20	PASS
NTNV	11N20MIMO	Ant1	5720	17.783	≤20	PASS
NTNV	11N20MIMO	Ant2	5720	17.850	≤20	PASS
NTNV	11N40MIMO	Ant1	5190	36.385	≤40	PASS
NTNV	11N40MIMO	Ant2	5190	36.264	≤40	PASS
NTNV	11N40MIMO	Ant1	5230	36.250	≤40	PASS
NTNV	11N40MIMO	Ant2	5230	36.333	≤40	PASS
NTNV	11N40MIMO	Ant1	5270	36.286	≤40	PASS
NTNV	11N40MIMO	Ant2	5270	36.267	≤40	PASS
NTNV	11N40MIMO	Ant1	5310	36.178	≤40	PASS
NTNV	11N40MIMO	Ant2	5310	36.208	≤40	PASS
NTNV	11N40MIMO	Ant1	5510	36.298	≤40	PASS
NTNV	11N40MIMO	Ant2	5510	36.243	≤40	PASS
NTNV	11N40MIMO	Ant1	5550	36.317	≤40	PASS
NTNV	11N40MIMO	Ant2	5550	36.306	≤40	PASS
NTNV	11N40MIMO	Ant1	5710	36.197	≤40	PASS
NTNV	11N40MIMO	Ant2	5710	36.298	≤40	PASS
NTNV	11AC20MIMO	Ant1	5180	17.769	≤20	PASS
NTNV	11AC20MIMO	Ant2	5180	17.750	≤20	PASS
NTNV	11AC20MIMO	Ant1	5220	17.812	≤20	PASS
NTNV	11AC20MIMO	Ant2	5220	17.854	≤20	PASS
NTNV	11AC20MIMO	Ant1	5240	17.724	≤20	PASS
NTNV	11AC20MIMO	Ant2	5240	17.797	≤20	PASS
NTNV	11AC20MIMO	Ant1	5260	17.821	≤20	PASS
NTNV	11AC20MIMO	Ant2	5260	17.838	≤20	PASS
NTNV	11AC20MIMO	Ant1	5300	17.808	≤20	PASS
NTNV	11AC20MIMO	Ant2	5300	17.756	≤20	PASS
NTNV	11AC20MIMO	Ant1	5320	17.754	≤20	PASS
NTNV	11AC20MIMO	Ant2	5320	17.818	≤20	PASS
NTNV	11AC20MIMO	Ant1	5500	17.858	≤20	PASS
NTNV	11AC20MIMO	Ant2	5500	17.828	≤20	PASS
NTNV	11AC20MIMO	Ant1	5600	17.751	≤20	PASS
NTNV	11AC20MIMO	Ant2	5600	17.831	≤20	PASS
NTNV	11AC20MIMO	Ant1	5720	17.791	≤20	PASS
NTNV	11AC20MIMO	Ant2	5720	17.905	≤20	PASS
NTNV	11AC40MIMO	Ant1	5190	36.255	≤40	PASS
NTNV	11AC40MIMO	Ant2	5190	36.368	≤40	PASS
NTNV	11AC40MIMO	Ant1	5230	36.212	≤40	PASS
NTNV	11AC40MIMO	Ant2	5230	36.229	≤40	PASS
NTNV	11AC40MIMO	Ant1	5270	36.169	≤40	PASS
NTNV	11AC40MIMO	Ant2	5270	36.226	≤40	PASS
NTNV	11AC40MIMO	Ant1	5310	36.150	≤40	PASS
NTNV	11AC40MIMO	Ant2	5310	36.215	≤40	PASS
NTNV	11AC40MIMO	Ant1	5510	36.194	≤40	PASS
NTNV	11AC40MIMO	Ant2	5510	36.240	≤40	PASS
NTNV	11AC40MIMO	Ant1	5550	36.272	≤40	PASS
NTNV	11AC40MIMO	Ant2	5550	36.272	≤40	PASS
NTNV	11AC40MIMO	Ant1	5710	36.323	≤40	PASS
NTNV	11AC40MIMO	Ant2	5710	36.402	≤40	PASS
NTNV	11AC80MIMO	Ant1	5210	75.830	≤80	PASS
NTNV	11AC80MIMO	Ant2	5210	75.800	≤80	PASS
NTNV	11AC80MIMO	Ant1	5290	75.712	≤80	PASS
NTNV	11AC80MIMO	Ant2	5290	75.870	≤80	PASS
NTNV	11AC80MIMO	Ant1	5530	75.894	≤80	PASS
NTNV	11AC80MIMO	Ant2	5530	75.862	≤80	PASS
NTNV	11AC80MIMO	Ant1	5610	75.619	≤80	PASS
NTNV	11AC80MIMO	Ant2	5610	75.807	≤80	PASS

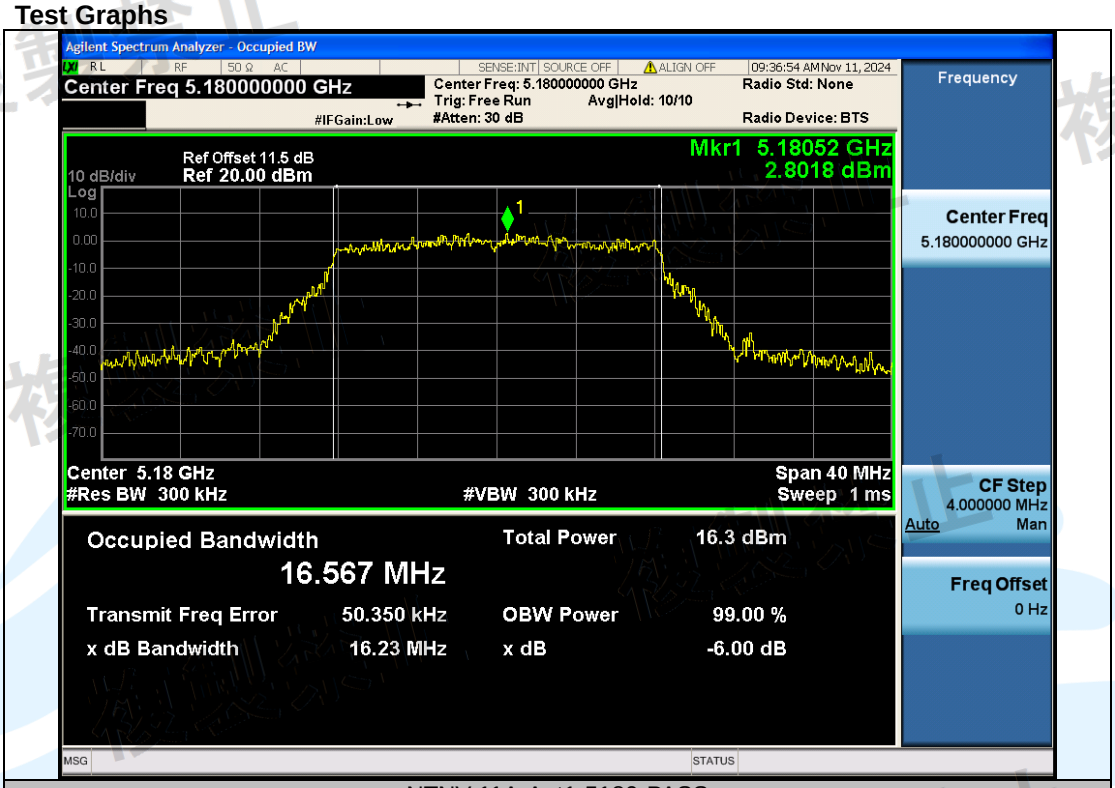
Test Condition	Test Mode	Antenna	Frequency [MHz]	Result [MHz]	Limit [MHz]	Verdict
NTNV	11AC80MIMO	Ant1	5690	75.808	≤80	PASS
NTNV	11AC80MIMO	Ant2	5690	76.188	≤80	PASS
NTNV	11AX20MIMO	Ant1	5180	18.799	≤20	PASS
NTNV	11AX20MIMO	Ant2	5180	19.075	≤20	PASS
NTNV	11AX20MIMO	Ant1	5220	18.818	≤20	PASS
NTNV	11AX20MIMO	Ant2	5220	18.952	≤20	PASS
NTNV	11AX20MIMO	Ant1	5240	18.940	≤20	PASS
NTNV	11AX20MIMO	Ant2	5240	18.917	≤20	PASS
NTNV	11AX20MIMO	Ant1	5260	18.873	≤20	PASS
NTNV	11AX20MIMO	Ant2	5260	18.923	≤20	PASS
NTNV	11AX20MIMO	Ant1	5300	18.857	≤20	PASS
NTNV	11AX20MIMO	Ant2	5300	18.943	≤20	PASS
NTNV	11AX20MIMO	Ant1	5320	18.865	≤20	PASS
NTNV	11AX20MIMO	Ant2	5320	18.908	≤20	PASS
NTNV	11AX20MIMO	Ant1	5500	18.919	≤20	PASS
NTNV	11AX20MIMO	Ant2	5500	18.949	≤20	PASS
NTNV	11AX20MIMO	Ant1	5600	18.804	≤20	PASS
NTNV	11AX20MIMO	Ant2	5600	18.931	≤20	PASS
NTNV	11AX20MIMO	Ant1	5720	18.897	≤20	PASS
NTNV	11AX20MIMO	Ant2	5720	18.908	≤20	PASS
NTNV	11AX40MIMO	Ant1	5190	37.723	≤40	PASS
NTNV	11AX40MIMO	Ant2	5190	37.589	≤40	PASS
NTNV	11AX40MIMO	Ant1	5230	37.682	≤40	PASS
NTNV	11AX40MIMO	Ant2	5230	37.546	≤40	PASS
NTNV	11AX40MIMO	Ant1	5270	37.572	≤40	PASS
NTNV	11AX40MIMO	Ant2	5270	37.472	≤40	PASS
NTNV	11AX40MIMO	Ant1	5310	37.499	≤40	PASS
NTNV	11AX40MIMO	Ant2	5310	37.482	≤40	PASS
NTNV	11AX40MIMO	Ant1	5510	37.533	≤40	PASS
NTNV	11AX40MIMO	Ant2	5510	37.470	≤40	PASS
NTNV	11AX40MIMO	Ant1	5550	37.559	≤40	PASS
NTNV	11AX40MIMO	Ant2	5550	37.690	≤40	PASS
NTNV	11AX40MIMO	Ant1	5710	37.659	≤40	PASS
NTNV	11AX40MIMO	Ant2	5710	37.716	≤40	PASS
NTNV	11AX80MIMO	Ant1	5210	77.040	≤80	PASS
NTNV	11AX80MIMO	Ant2	5210	76.974	≤80	PASS
NTNV	11AX80MIMO	Ant1	5290	77.214	≤80	PASS
NTNV	11AX80MIMO	Ant2	5290	77.093	≤80	PASS
NTNV	11AX80MIMO	Ant1	5530	77.027	≤80	PASS
NTNV	11AX80MIMO	Ant2	5530	77.176	≤80	PASS
NTNV	11AX80MIMO	Ant1	5610	76.986	≤80	PASS
NTNV	11AX80MIMO	Ant2	5610	77.221	≤80	PASS
NTNV	11AX80MIMO	Ant1	5690	77.210	≤80	PASS
NTNV	11AX80MIMO	Ant2	5690	76.938	≤80	PASS

Test Condition	Test Mode	Antenna	Frequency [MHz]	Ru Size	Ru Index	Result [MHz]	Limit [MHz]	Verdict
NTNV	11AX20MIMO	Ant1	5180	26Tone	RU0	18.339	≤20	PASS
NTNV	11AX20MIMO	Ant2	5180	26Tone	RU0	18.526	≤20	PASS
NTNV	11AX20MIMO	Ant1	5180	52Tone	RU37	18.216	≤20	PASS
NTNV	11AX20MIMO	Ant2	5180	52Tone	RU37	18.405	≤20	PASS
NTNV	11AX20MIMO	Ant1	5180	106Tone	RU53	18.290	≤20	PASS
NTNV	11AX20MIMO	Ant2	5180	106Tone	RU53	18.391	≤20	PASS
NTNV	11AX20MIMO	Ant1	5220	26Tone	RU4	17.091	≤20	PASS
NTNV	11AX20MIMO	Ant2	5220	26Tone	RU4	16.749	≤20	PASS
NTNV	11AX20MIMO	Ant1	5220	52Tone	RU39	17.366	≤20	PASS
NTNV	11AX20MIMO	Ant2	5220	52Tone	RU39	17.392	≤20	PASS
NTNV	11AX20MIMO	Ant1	5220	106Tone	RU54	18.679	≤20	PASS
NTNV	11AX20MIMO	Ant2	5220	106Tone	RU54	18.692	≤20	PASS
NTNV	11AX20MIMO	Ant1	5240	26Tone	RU8	18.706	≤20	PASS
NTNV	11AX20MIMO	Ant2	5240	26Tone	RU8	18.607	≤20	PASS
NTNV	11AX20MIMO	Ant1	5240	52Tone	RU40	18.648	≤20	PASS
NTNV	11AX20MIMO	Ant2	5240	52Tone	RU40	18.656	≤20	PASS
NTNV	11AX20MIMO	Ant1	5240	106Tone	RU53	18.366	≤20	PASS
NTNV	11AX20MIMO	Ant2	5240	106Tone	RU53	18.333	≤20	PASS
NTNV	11AX20MIMO	Ant1	5260	26Tone	RU0	18.517	≤20	PASS
NTNV	11AX20MIMO	Ant2	5260	26Tone	RU0	18.501	≤20	PASS
NTNV	11AX20MIMO	Ant1	5260	52Tone	RU37	18.432	≤20	PASS
NTNV	11AX20MIMO	Ant2	5260	52Tone	RU37	18.391	≤20	PASS
NTNV	11AX20MIMO	Ant1	5260	106Tone	RU54	18.658	≤20	PASS
NTNV	11AX20MIMO	Ant2	5260	106Tone	RU54	18.706	≤20	PASS
NTNV	11AX20MIMO	Ant1	5300	26Tone	RU4	17.087	≤20	PASS
NTNV	11AX20MIMO	Ant2	5300	26Tone	RU4	17.172	≤20	PASS
NTNV	11AX20MIMO	Ant1	5300	52Tone	RU39	17.394	≤20	PASS
NTNV	11AX20MIMO	Ant2	5300	52Tone	RU39	17.382	≤20	PASS
NTNV	11AX20MIMO	Ant1	5300	106Tone	RU53	18.373	≤20	PASS
NTNV	11AX20MIMO	Ant2	5300	106Tone	RU53	18.359	≤20	PASS
NTNV	11AX20MIMO	Ant1	5320	26Tone	RU8	18.350	≤20	PASS
NTNV	11AX20MIMO	Ant2	5320	26Tone	RU8	18.644	≤20	PASS
NTNV	11AX20MIMO	Ant1	5320	52Tone	RU40	18.536	≤20	PASS
NTNV	11AX20MIMO	Ant2	5320	52Tone	RU40	18.604	≤20	PASS
NTNV	11AX20MIMO	Ant1	5320	106Tone	RU54	18.682	≤20	PASS
NTNV	11AX20MIMO	Ant2	5320	106Tone	RU54	18.695	≤20	PASS
NTNV	11AX20MIMO	Ant1	5500	26Tone	RU0	18.506	≤20	PASS
NTNV	11AX20MIMO	Ant2	5500	26Tone	RU0	18.474	≤20	PASS
NTNV	11AX20MIMO	Ant1	5500	52Tone	RU37	18.422	≤20	PASS
NTNV	11AX20MIMO	Ant2	5500	52Tone	RU37	18.410	≤20	PASS
NTNV	11AX20MIMO	Ant1	5500	106Tone	RU53	18.357	≤20	PASS
NTNV	11AX20MIMO	Ant2	5500	106Tone	RU53	18.333	≤20	PASS
NTNV	11AX20MIMO	Ant1	5600	26Tone	RU4	17.273	≤20	PASS
NTNV	11AX20MIMO	Ant2	5600	26Tone	RU4	17.318	≤20	PASS
NTNV	11AX20MIMO	Ant1	5600	52Tone	RU39	17.410	≤20	PASS
NTNV	11AX20MIMO	Ant2	5600	52Tone	RU39	17.401	≤20	PASS
NTNV	11AX20MIMO	Ant1	5600	106Tone	RU54	18.688	≤20	PASS
NTNV	11AX20MIMO	Ant2	5600	106Tone	RU54	18.687	≤20	PASS
NTNV	11AX20MIMO	Ant1	5720	26Tone	RU0	18.493	≤20	PASS
NTNV	11AX20MIMO	Ant2	5720	26Tone	RU0	18.415	≤20	PASS
NTNV	11AX20MIMO	Ant1	5720	52Tone	RU37	18.469	≤20	PASS
NTNV	11AX20MIMO	Ant2	5720	52Tone	RU37	18.405	≤20	PASS
NTNV	11AX20MIMO	Ant1	5720	106Tone	RU54	18.692	≤20	PASS
NTNV	11AX20MIMO	Ant2	5720	106Tone	RU54	18.704	≤20	PASS
NTNV	11AX40MIMO	Ant1	5190	26Tone	RU0	17.911	≤40	PASS
NTNV	11AX40MIMO	Ant2	5190	26Tone	RU0	18.245	≤40	PASS
NTNV	11AX40MIMO	Ant1	5190	52Tone	RU37	18.167	≤40	PASS
NTNV	11AX40MIMO	Ant2	5190	52Tone	RU37	18.181	≤40	PASS
NTNV	11AX40MIMO	Ant1	5190	106Tone	RU53	18.264	≤40	PASS
NTNV	11AX40MIMO	Ant2	5190	106Tone	RU53	18.277	≤40	PASS
NTNV	11AX40MIMO	Ant1	5190	242Tone	RU61	19.179	≤40	PASS

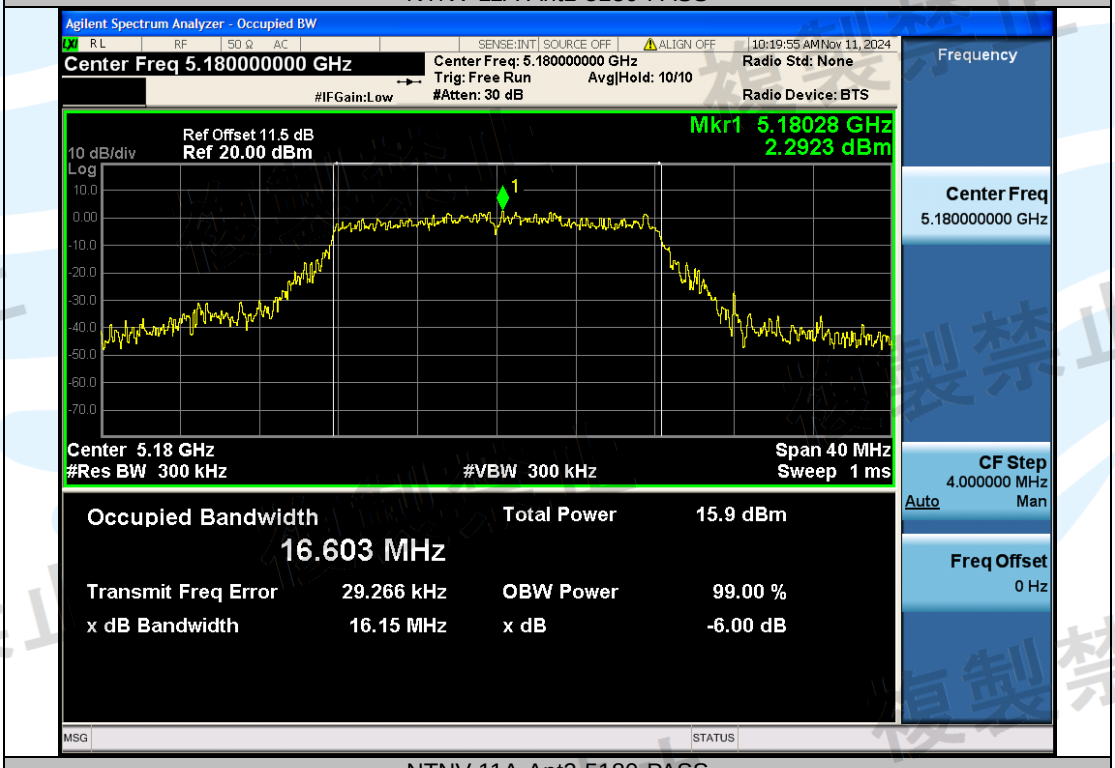
Test Condition	Test Mode	Antenna	Frequency [MHz]	Ru Size	Ru Index	Result [MHz]	Limit [MHz]	Verdict
NTNV	11AX40MIMO	Ant2	5190	242Tone	RU61	19.156	≤40	PASS
NTNV	11AX40MIMO	Ant1	5230	26Tone	RU17	18.049	≤40	PASS
NTNV	11AX40MIMO	Ant2	5230	26Tone	RU17	18.028	≤40	PASS
NTNV	11AX40MIMO	Ant1	5230	52Tone	RU44	18.048	≤40	PASS
NTNV	11AX40MIMO	Ant2	5230	52Tone	RU44	18.018	≤40	PASS
NTNV	11AX40MIMO	Ant1	5230	106Tone	RU56	18.097	≤40	PASS
NTNV	11AX40MIMO	Ant2	5230	106Tone	RU56	18.058	≤40	PASS
NTNV	11AX40MIMO	Ant1	5230	242Tone	RU62	19.257	≤40	PASS
NTNV	11AX40MIMO	Ant2	5230	242Tone	RU62	19.168	≤40	PASS
NTNV	11AX40MIMO	Ant1	5270	26Tone	RU0	17.892	≤40	PASS
NTNV	11AX40MIMO	Ant2	5270	26Tone	RU0	18.112	≤40	PASS
NTNV	11AX40MIMO	Ant1	5270	52Tone	RU37	18.119	≤40	PASS
NTNV	11AX40MIMO	Ant2	5270	52Tone	RU37	18.201	≤40	PASS
NTNV	11AX40MIMO	Ant1	5270	106Tone	RU53	18.350	≤40	PASS
NTNV	11AX40MIMO	Ant2	5270	106Tone	RU53	18.326	≤40	PASS
NTNV	11AX40MIMO	Ant1	5270	242Tone	RU61	19.278	≤40	PASS
NTNV	11AX40MIMO	Ant2	5270	242Tone	RU61	19.279	≤40	PASS
NTNV	11AX40MIMO	Ant1	5310	26Tone	RU17	18.101	≤40	PASS
NTNV	11AX40MIMO	Ant2	5310	26Tone	RU17	18.113	≤40	PASS
NTNV	11AX40MIMO	Ant1	5310	52Tone	RU44	18.036	≤40	PASS
NTNV	11AX40MIMO	Ant2	5310	52Tone	RU44	18.018	≤40	PASS
NTNV	11AX40MIMO	Ant1	5310	106Tone	RU56	18.336	≤40	PASS
NTNV	11AX40MIMO	Ant2	5310	106Tone	RU56	18.299	≤40	PASS
NTNV	11AX40MIMO	Ant1	5310	242Tone	RU62	19.287	≤40	PASS
NTNV	11AX40MIMO	Ant2	5310	242Tone	RU62	19.189	≤40	PASS
NTNV	11AX40MIMO	Ant1	5510	26Tone	RU0	18.219	≤40	PASS
NTNV	11AX40MIMO	Ant2	5510	26Tone	RU0	18.081	≤40	PASS
NTNV	11AX40MIMO	Ant1	5510	52Tone	RU37	18.190	≤40	PASS
NTNV	11AX40MIMO	Ant2	5510	52Tone	RU37	18.153	≤40	PASS
NTNV	11AX40MIMO	Ant1	5510	106Tone	RU53	18.342	≤40	PASS
NTNV	11AX40MIMO	Ant2	5510	106Tone	RU53	18.305	≤40	PASS
NTNV	11AX40MIMO	Ant1	5510	242Tone	RU61	19.251	≤40	PASS
NTNV	11AX40MIMO	Ant2	5510	242Tone	RU61	19.196	≤40	PASS
NTNV	11AX40MIMO	Ant1	5550	26Tone	RU17	18.025	≤40	PASS
NTNV	11AX40MIMO	Ant2	5550	26Tone	RU17	18.072	≤40	PASS
NTNV	11AX40MIMO	Ant1	5550	52Tone	RU44	17.984	≤40	PASS
NTNV	11AX40MIMO	Ant2	5550	52Tone	RU44	18.012	≤40	PASS
NTNV	11AX40MIMO	Ant1	5550	106Tone	RU56	18.059	≤40	PASS
NTNV	11AX40MIMO	Ant2	5550	106Tone	RU56	18.087	≤40	PASS
NTNV	11AX40MIMO	Ant1	5550	242Tone	RU62	19.113	≤40	PASS
NTNV	11AX40MIMO	Ant2	5550	242Tone	RU62	19.200	≤40	PASS
NTNV	11AX40MIMO	Ant1	5710	26Tone	RU17	18.046	≤40	PASS
NTNV	11AX40MIMO	Ant2	5710	26Tone	RU17	18.075	≤40	PASS
NTNV	11AX40MIMO	Ant1	5710	52Tone	RU44	18.027	≤40	PASS
NTNV	11AX40MIMO	Ant2	5710	52Tone	RU44	17.995	≤40	PASS
NTNV	11AX40MIMO	Ant1	5710	106Tone	RU56	18.071	≤40	PASS
NTNV	11AX40MIMO	Ant2	5710	106Tone	RU56	18.077	≤40	PASS
NTNV	11AX40MIMO	Ant1	5710	242Tone	RU62	19.112	≤40	PASS
NTNV	11AX40MIMO	Ant2	5710	242Tone	RU62	19.213	≤40	PASS
NTNV	11AX80MIMO	Ant1	5210	26Tone	RU0	18.143	≤80	PASS
NTNV	11AX80MIMO	Ant2	5210	26Tone	RU0	18.179	≤80	PASS
NTNV	11AX80MIMO	Ant1	5210	52Tone	RU37	18.036	≤80	PASS
NTNV	11AX80MIMO	Ant2	5210	52Tone	RU37	18.048	≤80	PASS
NTNV	11AX80MIMO	Ant1	5210	106Tone	RU53	18.021	≤80	PASS
NTNV	11AX80MIMO	Ant2	5210	106Tone	RU53	17.997	≤80	PASS
NTNV	11AX80MIMO	Ant1	5210	242Tone	RU61	19.574	≤80	PASS
NTNV	11AX80MIMO	Ant2	5210	242Tone	RU61	19.789	≤80	PASS
NTNV	11AX80MIMO	Ant1	5210	484Tone	RU65	37.583	≤80	PASS
NTNV	11AX80MIMO	Ant2	5210	484Tone	RU65	37.601	≤80	PASS
NTNV	11AX80MIMO	Ant1	5290	26Tone	RU36	18.496	≤80	PASS
NTNV	11AX80MIMO	Ant2	5290	26Tone	RU36	18.314	≤80	PASS

Test Condition	Test Mode	Antenna	Frequency [MHz]	Ru Size	Ru Index	Result [MHz]	Limit [MHz]	Verdict
NTNV	11AX80MIMO	Ant1	5290	52Tone	RU52	18.627	≤80	PASS
NTNV	11AX80MIMO	Ant2	5290	52Tone	RU52	18.519	≤80	PASS
NTNV	11AX80MIMO	Ant1	5290	106Tone	RU60	18.724	≤80	PASS
NTNV	11AX80MIMO	Ant2	5290	106Tone	RU60	18.732	≤80	PASS
NTNV	11AX80MIMO	Ant1	5290	242Tone	RU64	19.468	≤80	PASS
NTNV	11AX80MIMO	Ant2	5290	242Tone	RU64	19.564	≤80	PASS
NTNV	11AX80MIMO	Ant1	5290	484Tone	RU66	38.235	≤80	PASS
NTNV	11AX80MIMO	Ant2	5290	484Tone	RU66	38.322	≤80	PASS
NTNV	11AX80MIMO	Ant1	5530	26Tone	RU0	18.157	≤80	PASS
NTNV	11AX80MIMO	Ant2	5530	26Tone	RU0	17.895	≤80	PASS
NTNV	11AX80MIMO	Ant1	5530	52Tone	RU37	18.119	≤80	PASS
NTNV	11AX80MIMO	Ant2	5530	52Tone	RU37	18.058	≤80	PASS
NTNV	11AX80MIMO	Ant1	5530	106Tone	RU53	17.991	≤80	PASS
NTNV	11AX80MIMO	Ant2	5530	106Tone	RU53	18.035	≤80	PASS
NTNV	11AX80MIMO	Ant1	5530	242Tone	RU61	19.469	≤80	PASS
NTNV	11AX80MIMO	Ant2	5530	242Tone	RU61	19.410	≤80	PASS
NTNV	11AX80MIMO	Ant1	5530	484Tone	RU65	37.611	≤80	PASS
NTNV	11AX80MIMO	Ant2	5530	484Tone	RU65	37.648	≤80	PASS
NTNV	11AX80MIMO	Ant1	5610	26Tone	RU36	17.645	≤80	PASS
NTNV	11AX80MIMO	Ant2	5610	26Tone	RU36	18.470	≤80	PASS
NTNV	11AX80MIMO	Ant1	5610	52Tone	RU52	18.461	≤80	PASS
NTNV	11AX80MIMO	Ant2	5610	52Tone	RU52	18.518	≤80	PASS
NTNV	11AX80MIMO	Ant1	5610	106Tone	RU60	18.794	≤80	PASS
NTNV	11AX80MIMO	Ant2	5610	106Tone	RU60	18.761	≤80	PASS
NTNV	11AX80MIMO	Ant1	5610	242Tone	RU64	19.696	≤80	PASS
NTNV	11AX80MIMO	Ant2	5610	242Tone	RU64	19.687	≤80	PASS
NTNV	11AX80MIMO	Ant1	5610	484Tone	RU66	38.284	≤80	PASS
NTNV	11AX80MIMO	Ant2	5610	484Tone	RU66	38.294	≤80	PASS
NTNV	11AX80MIMO	Ant1	5690	26Tone	RU0	18.153	≤80	PASS
NTNV	11AX80MIMO	Ant2	5690	26Tone	RU0	18.182	≤80	PASS
NTNV	11AX80MIMO	Ant1	5690	52Tone	RU37	18.060	≤80	PASS
NTNV	11AX80MIMO	Ant2	5690	52Tone	RU37	17.985	≤80	PASS
NTNV	11AX80MIMO	Ant1	5690	106Tone	RU53	18.026	≤80	PASS
NTNV	11AX80MIMO	Ant2	5690	106Tone	RU53	17.993	≤80	PASS
NTNV	11AX80MIMO	Ant1	5690	242Tone	RU61	19.710	≤80	PASS
NTNV	11AX80MIMO	Ant2	5690	242Tone	RU61	19.613	≤80	PASS
NTNV	11AX80MIMO	Ant1	5690	484Tone	RU65	37.647	≤80	PASS
NTNV	11AX80MIMO	Ant2	5690	484Tone	RU65	37.632	≤80	PASS

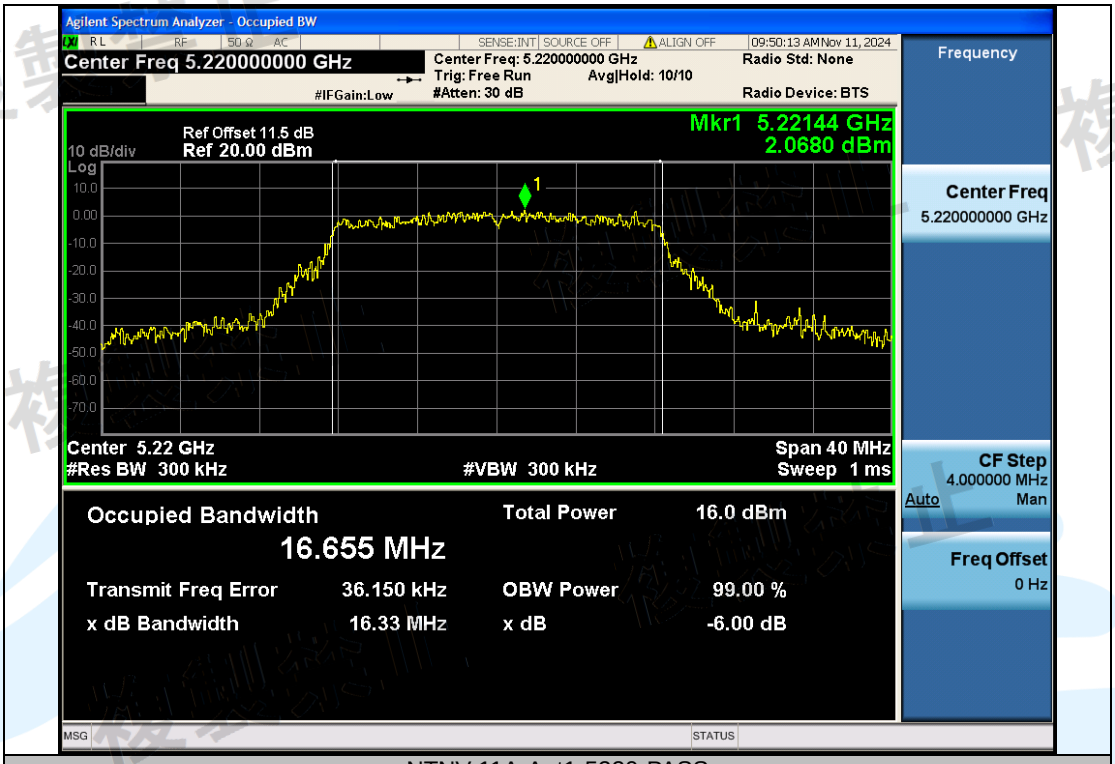
Test Graphs



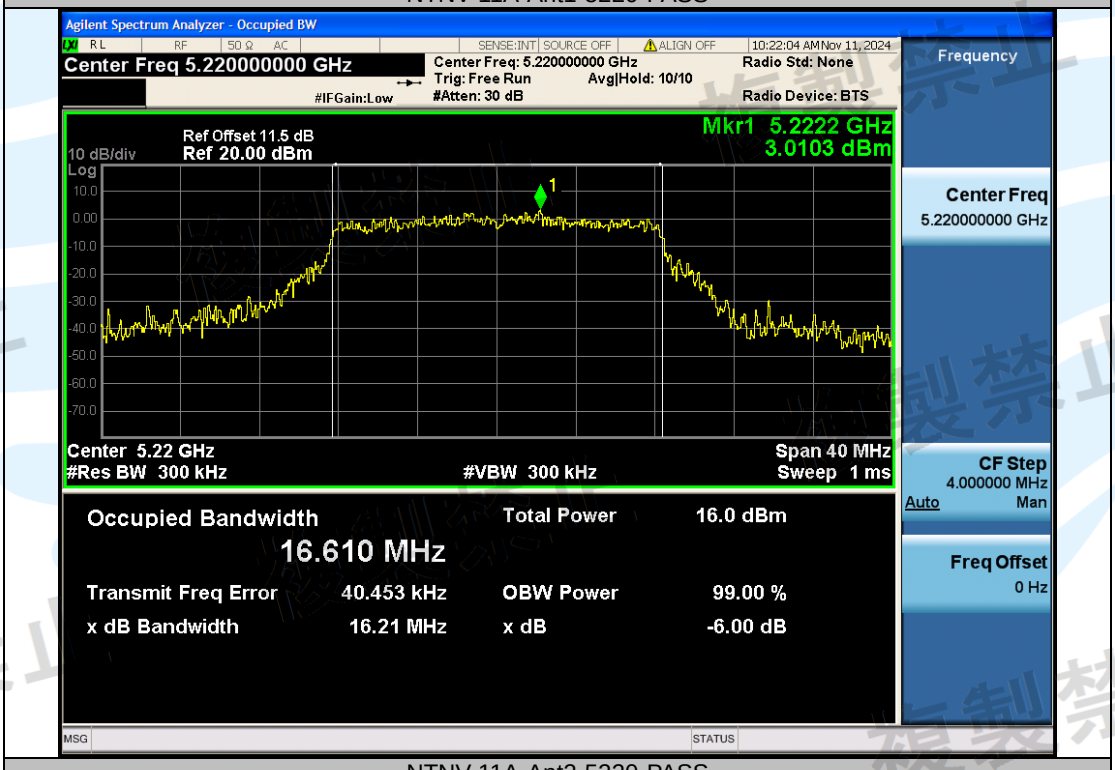
NTNV-11A-Ant1-5180-PASS



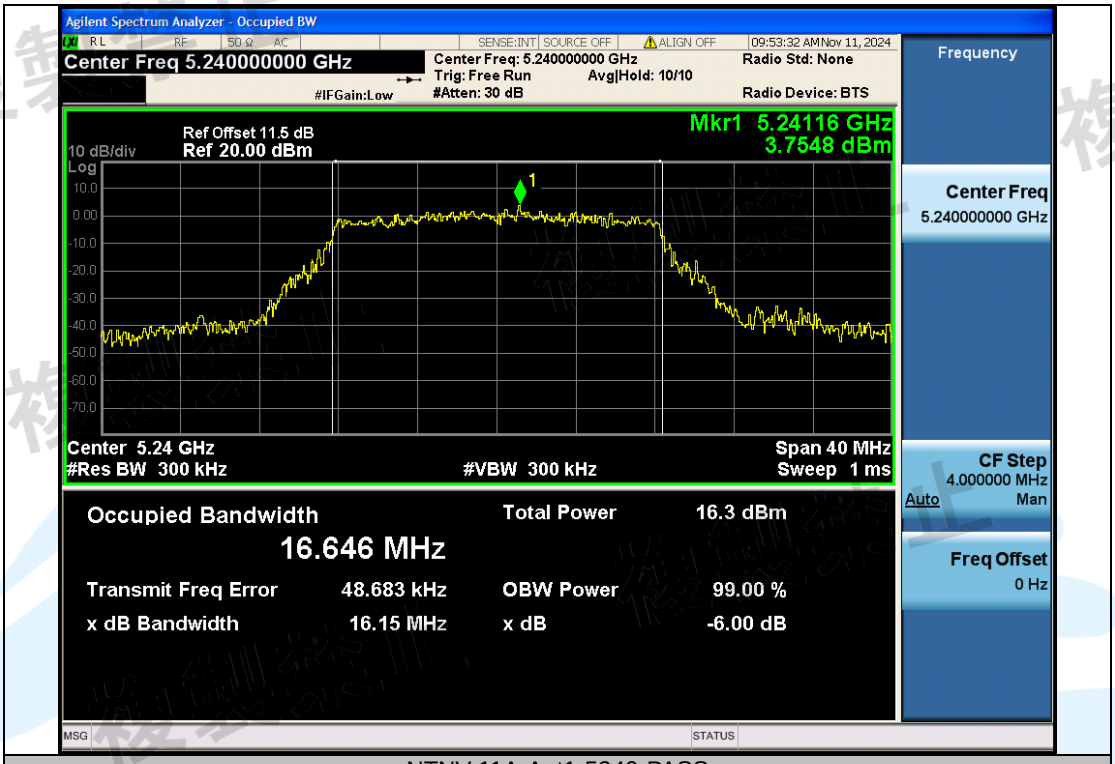
NTNV-11A-Ant2-5180-PASS



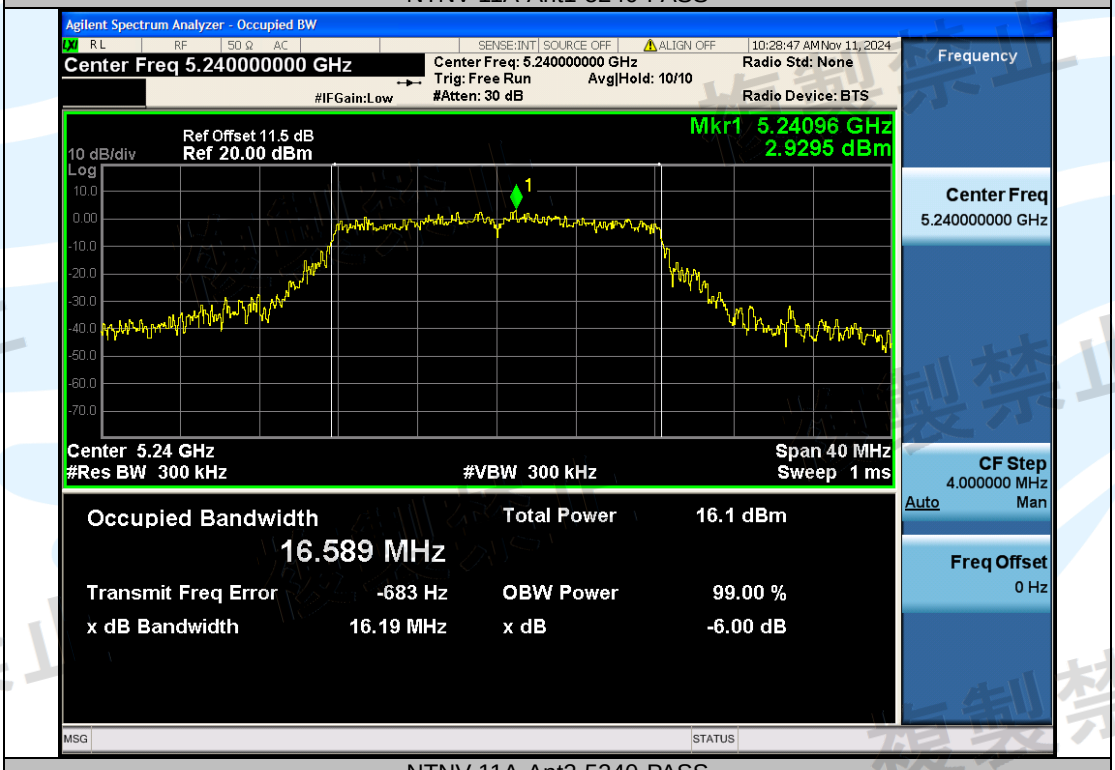
NTNV-11A-Ant1-5220-PASS



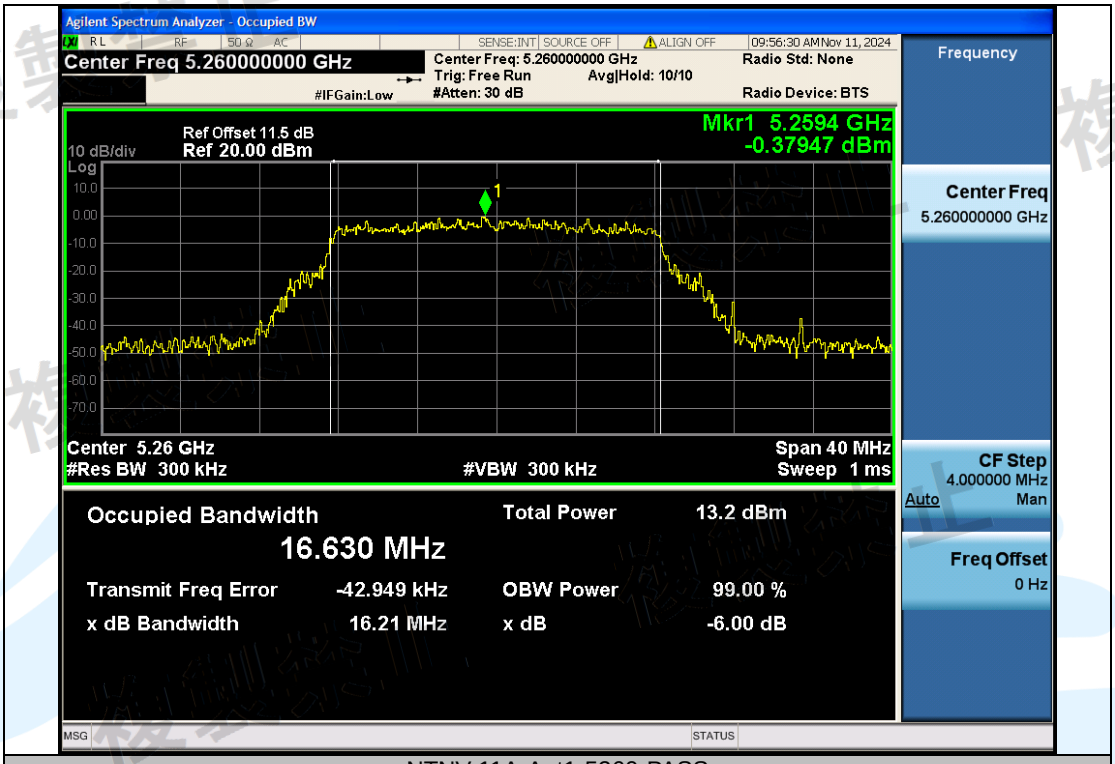
NTNV-11A-Ant2-5220-PASS



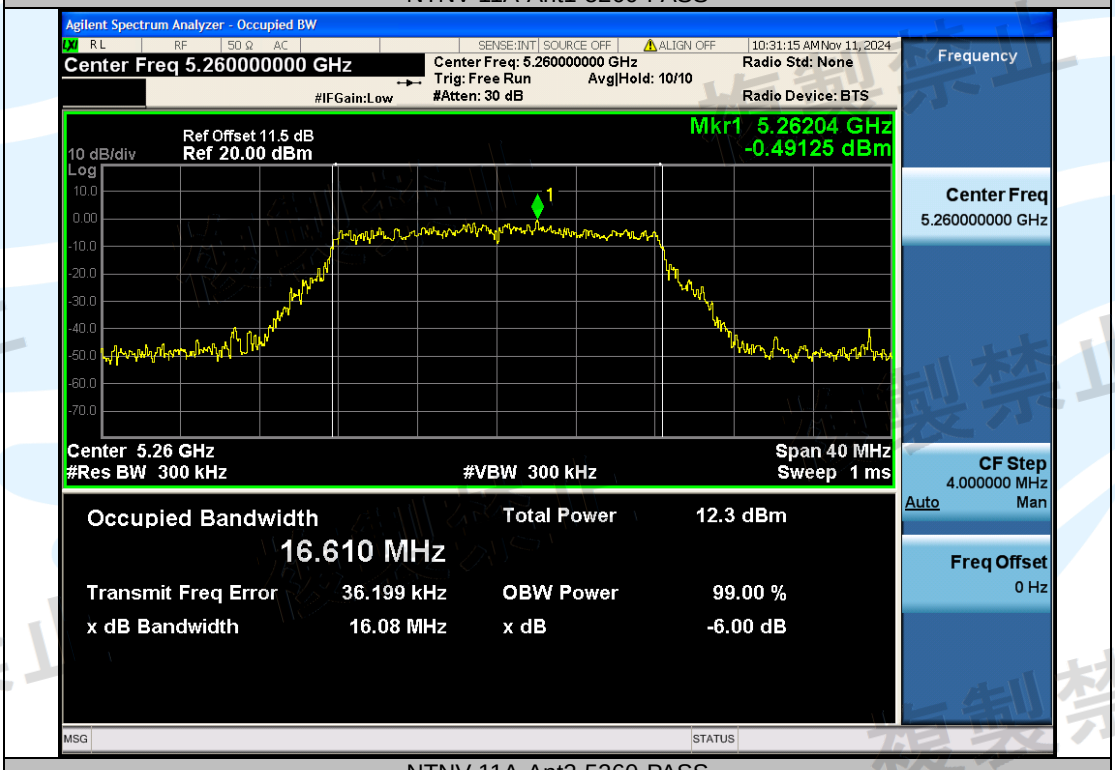
NTNV-11A-Ant1-5240-PASS



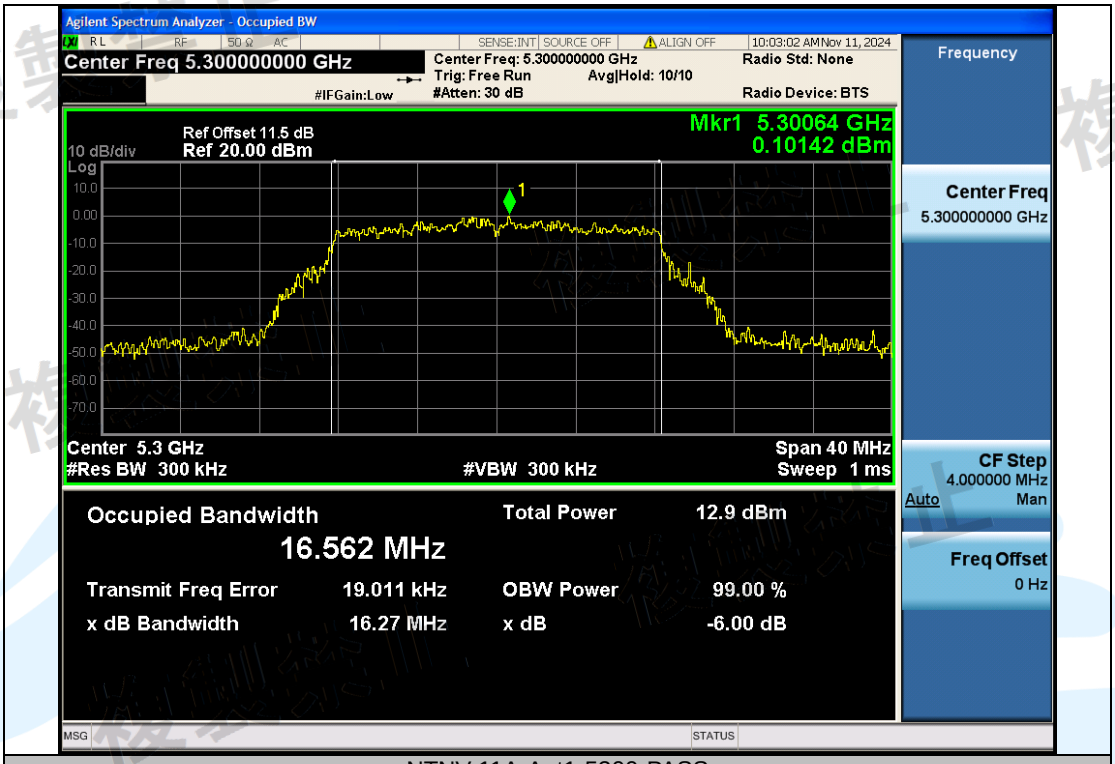
NTNV-11A-Ant2-5240-PASS



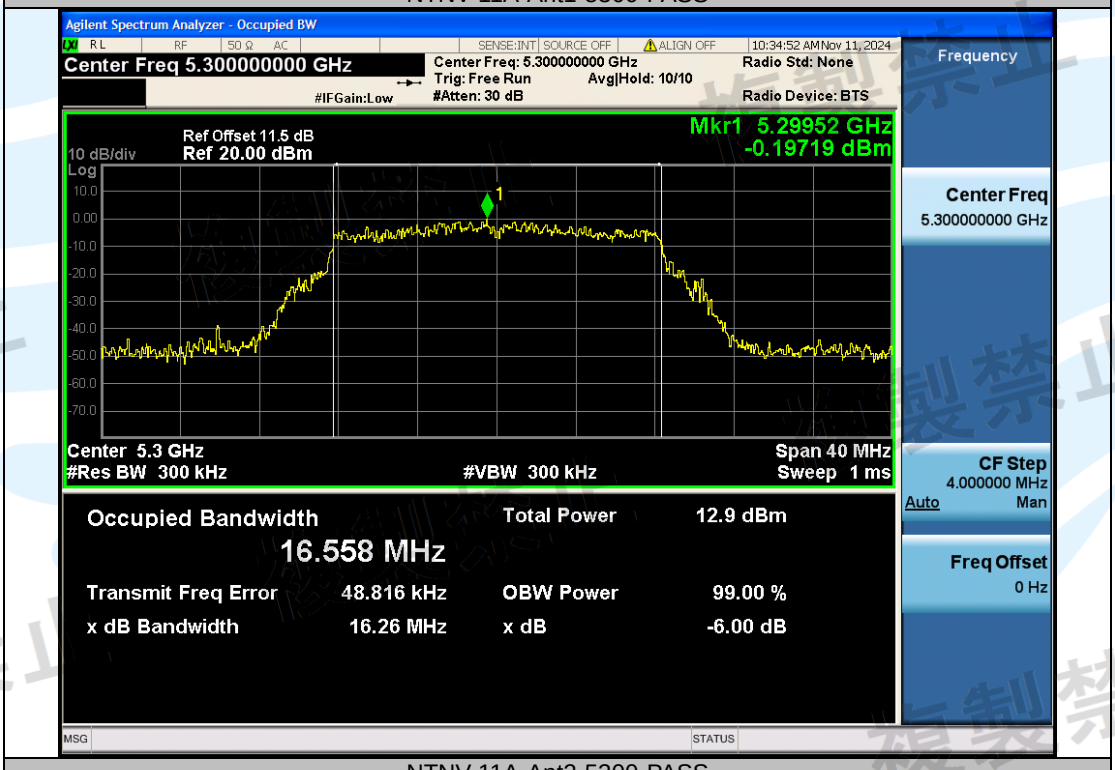
NTNV-11A-Ant1-5260-PASS



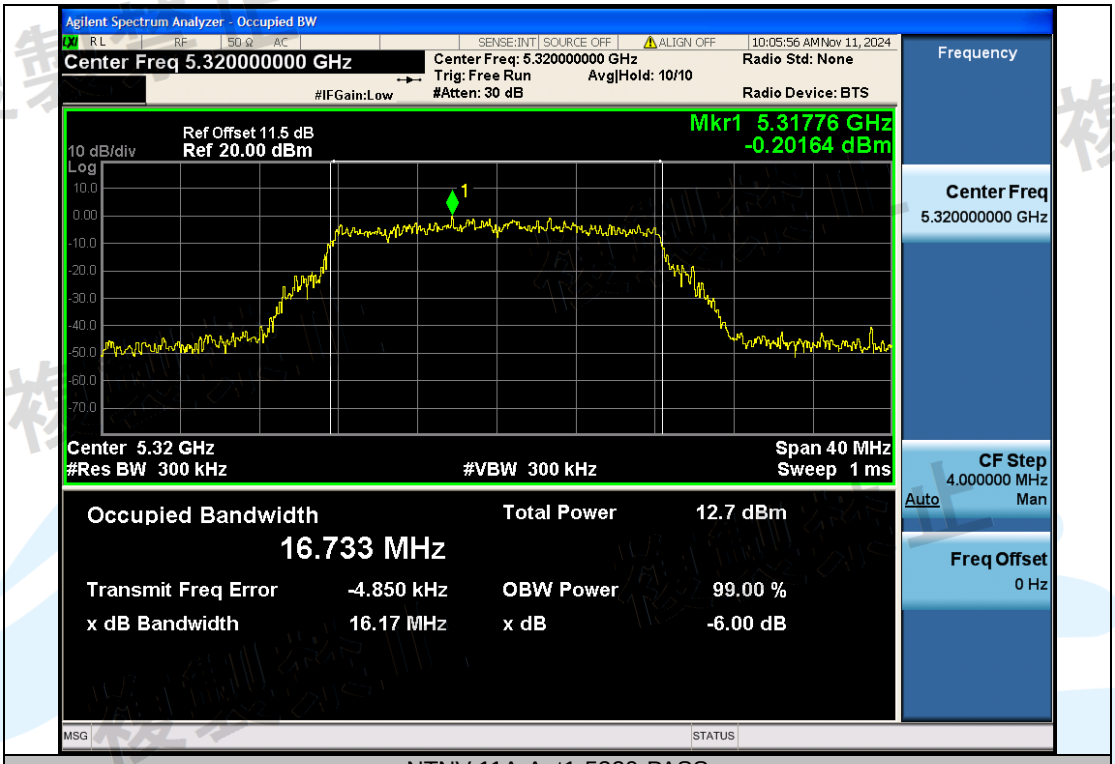
NTNV-11A-Ant2-5260-PASS



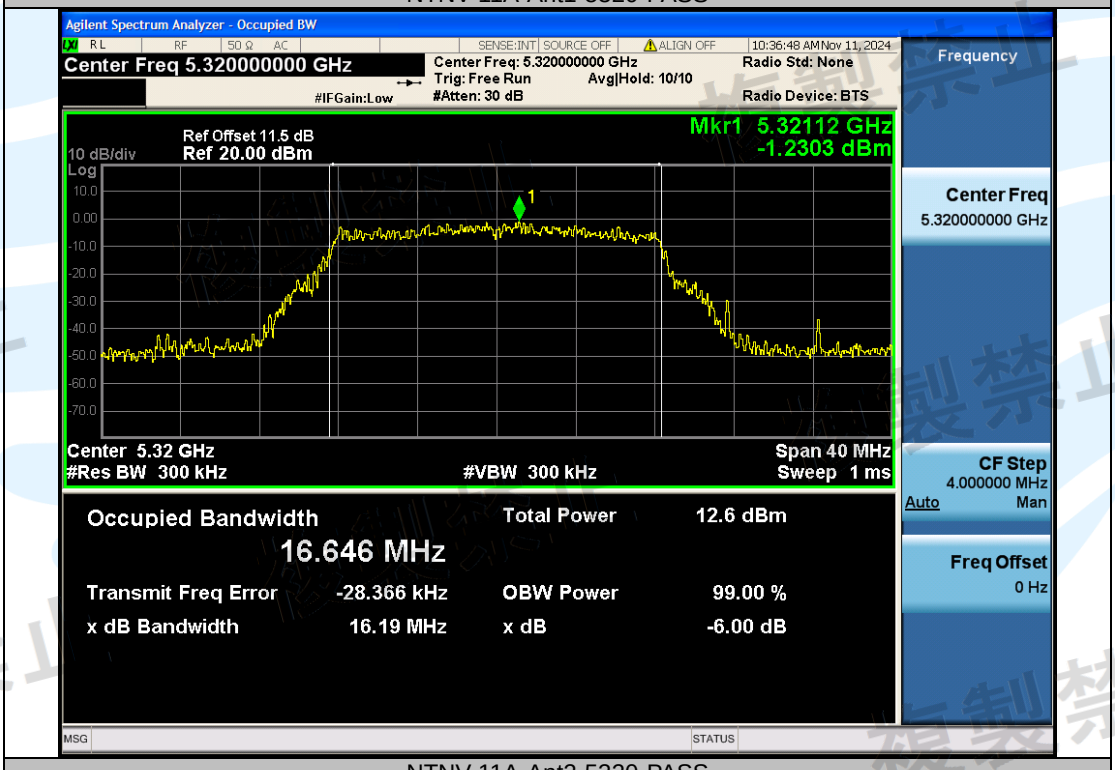
NTNV-11A-Ant1-5300-PASS



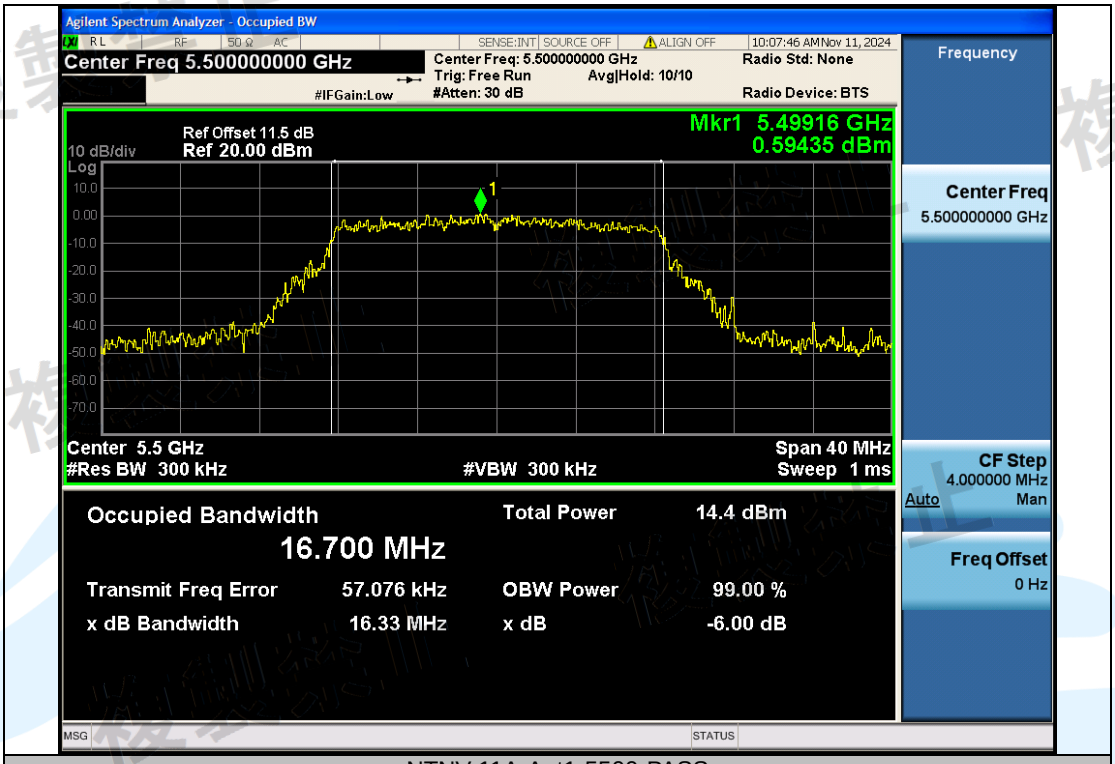
NTNV-11A-Ant2-5300-PASS



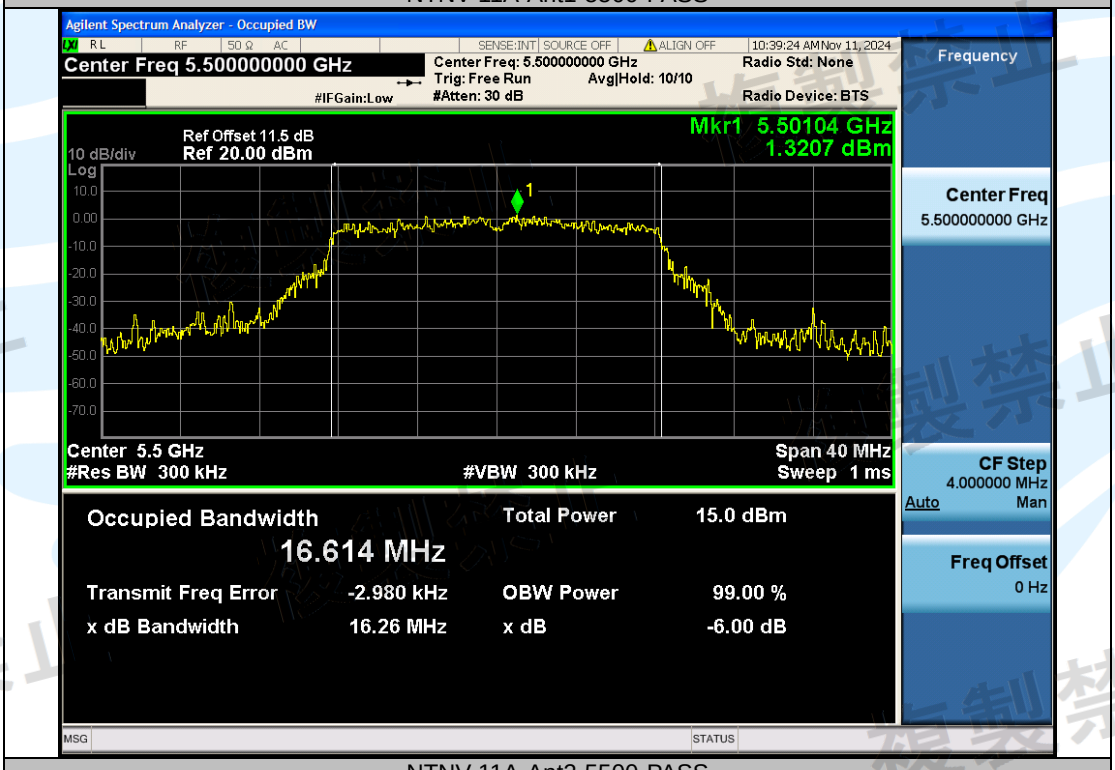
NTNV-11A-Ant1-5320-PASS



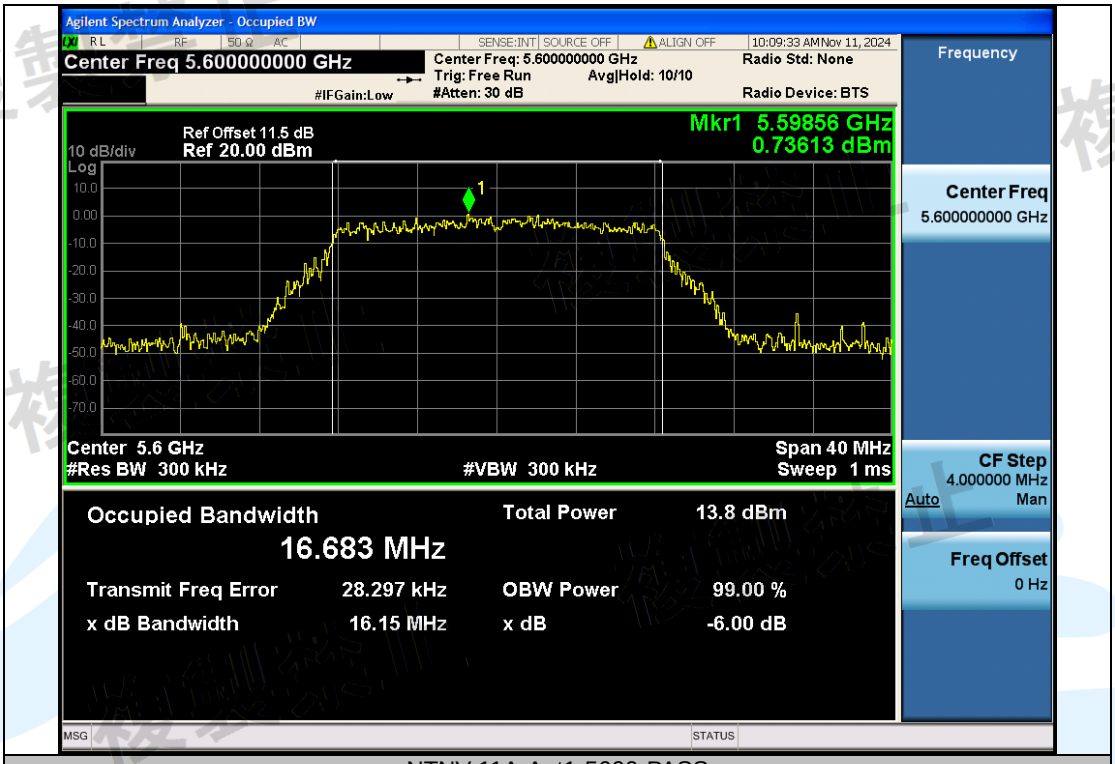
NTNV-11A-Ant2-5320-PASS



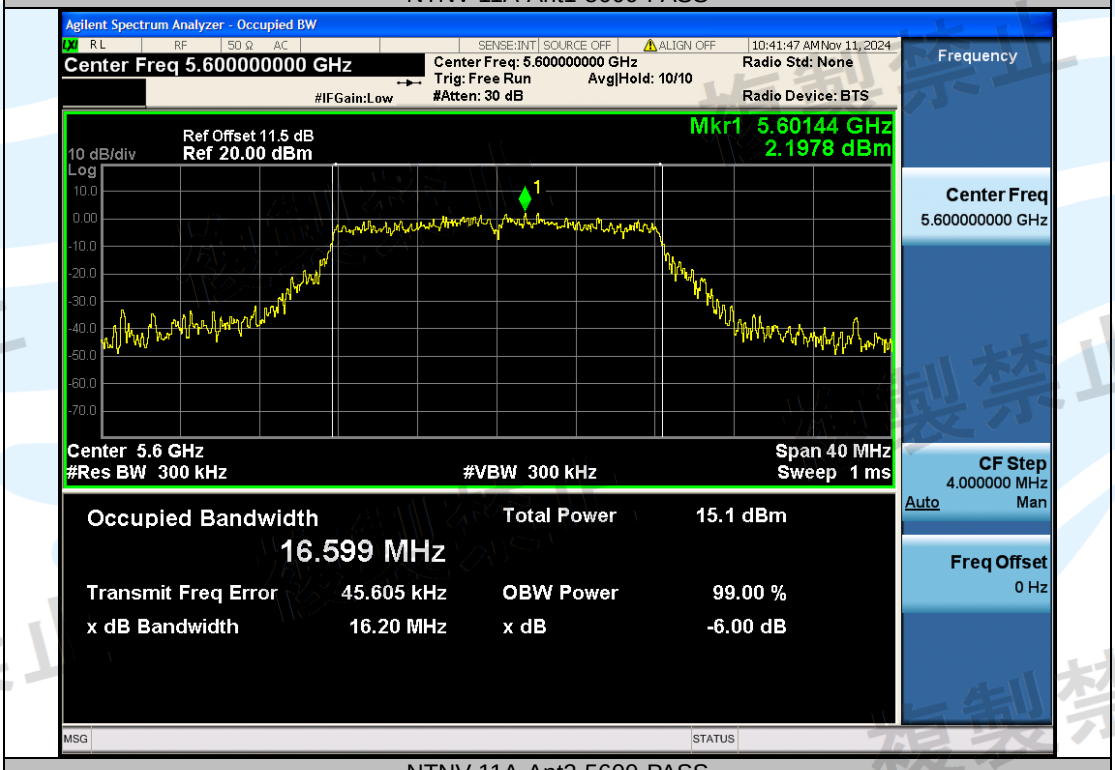
NTNV-11A-Ant1-5500-PASS



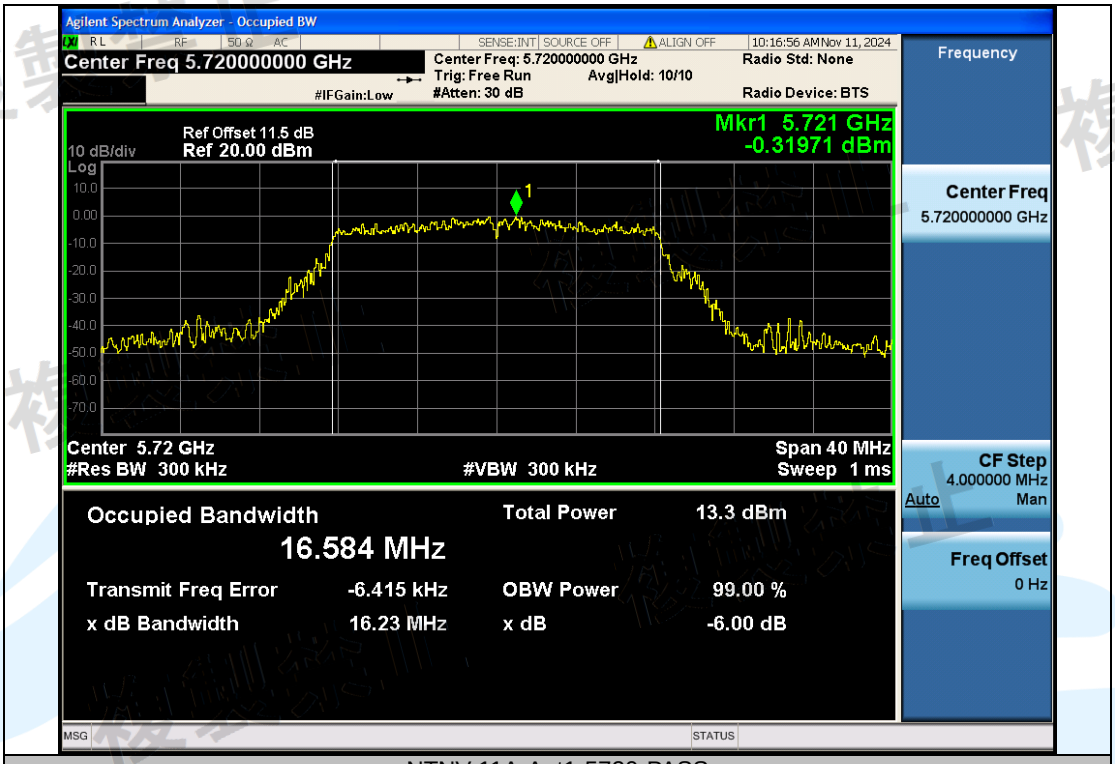
NTNV-11A-Ant2-5500-PASS



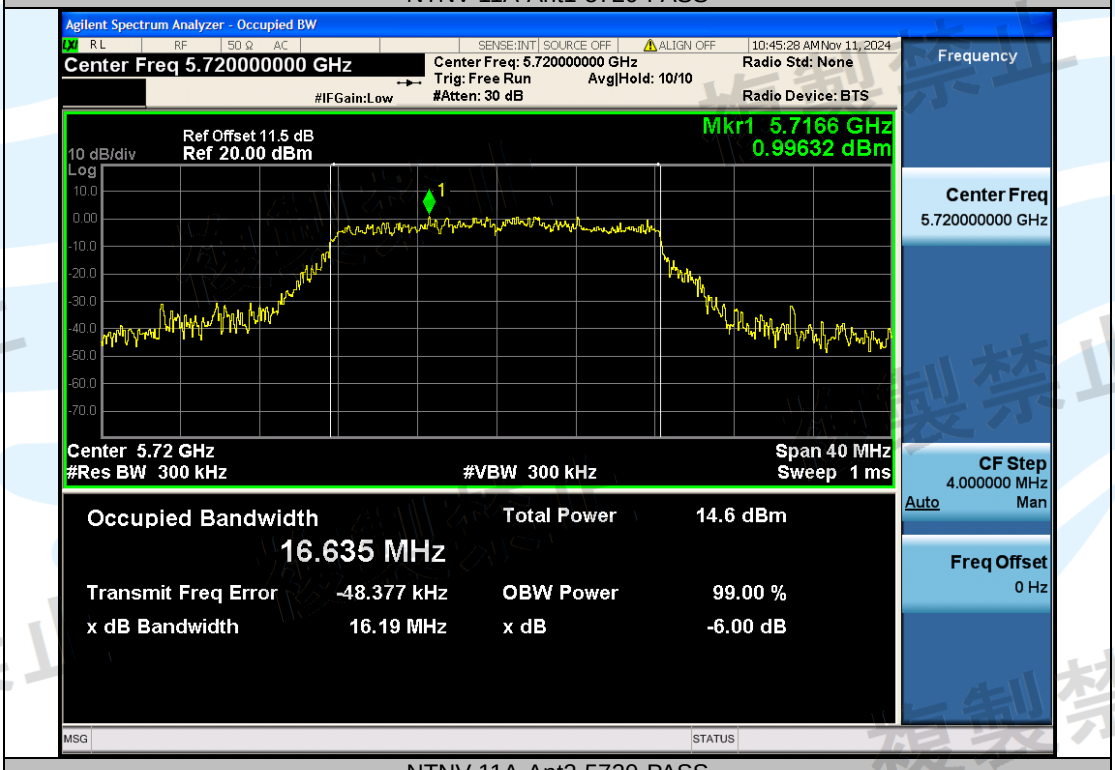
NTNV-11A-Ant1-5600-PASS



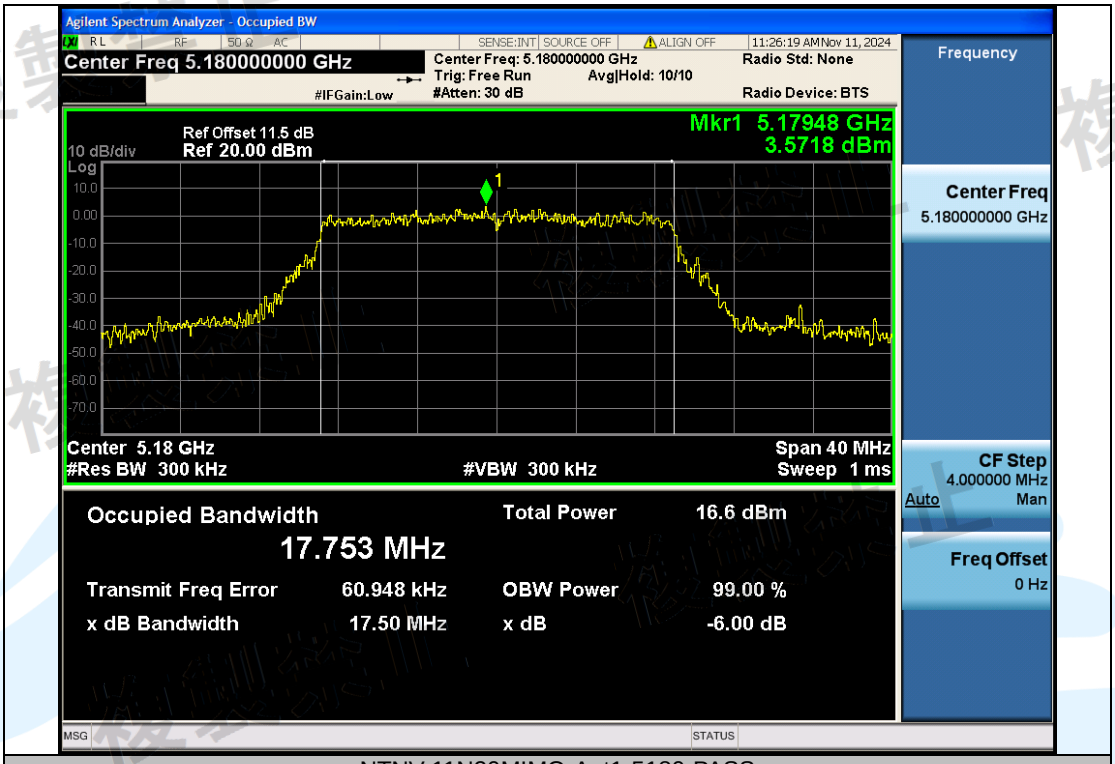
NTNV-11A-Ant2-5600-PASS



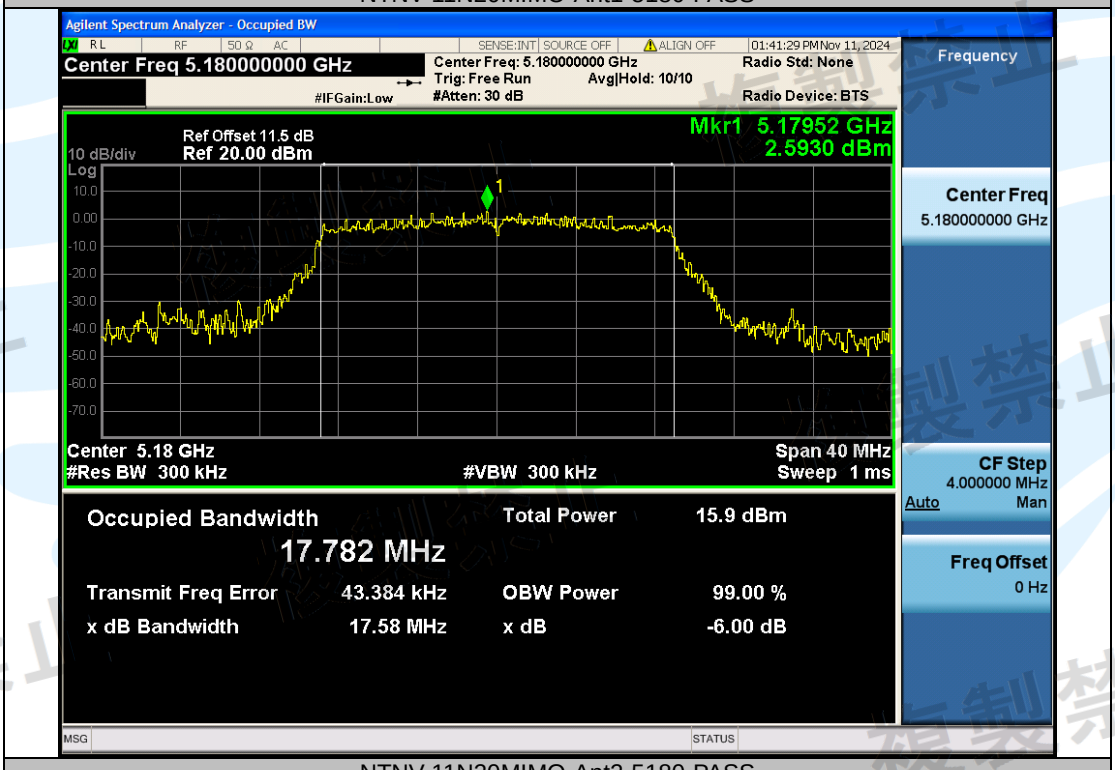
NTNV-11A-Ant1-5720-PASS



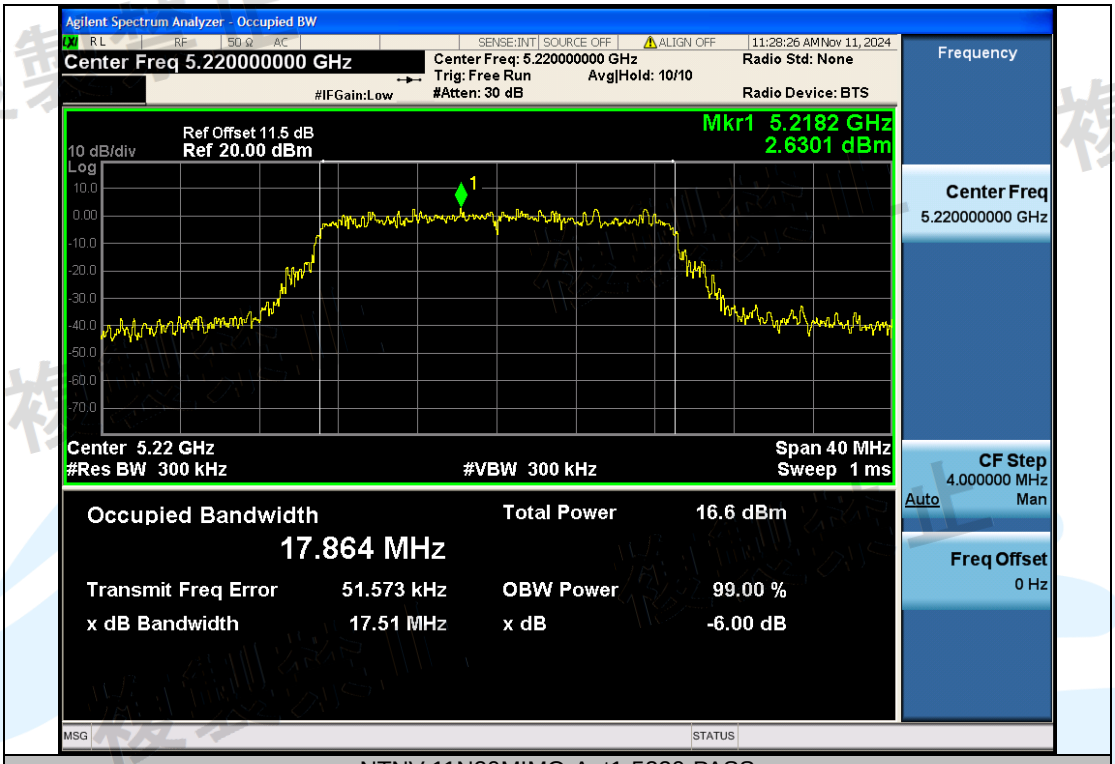
NTNV-11A-Ant2-5720-PASS



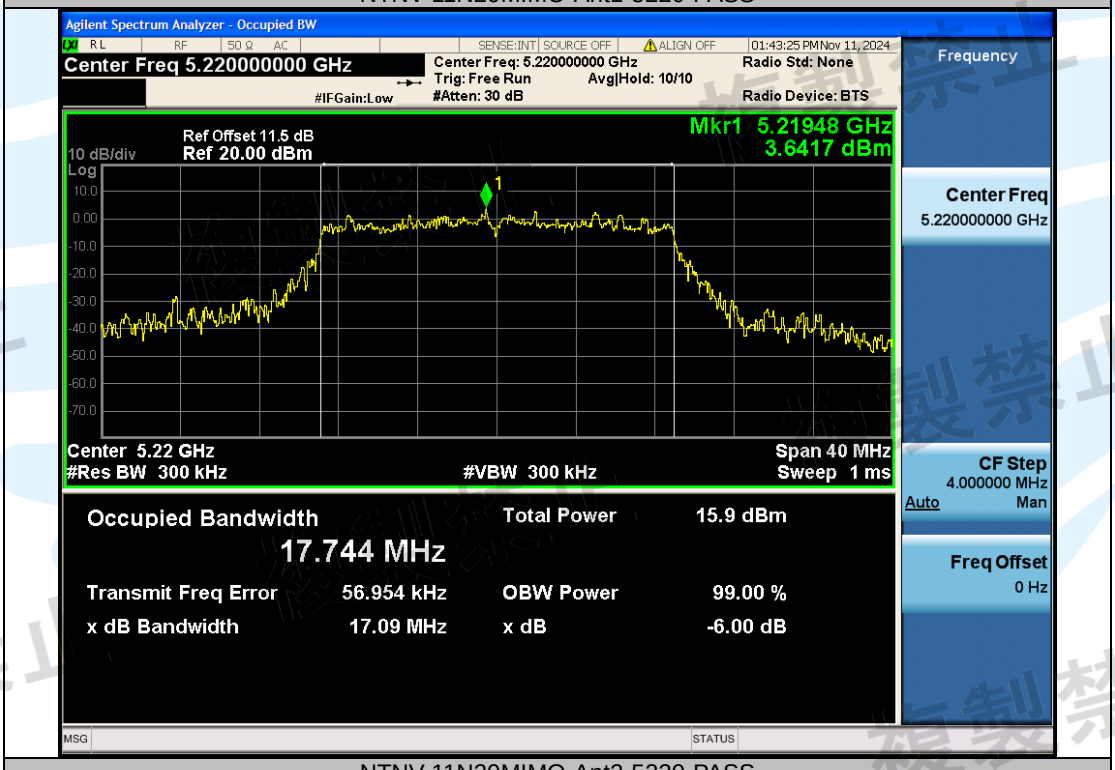
NTNV-11N20MIMO-Ant1-5180-PASS



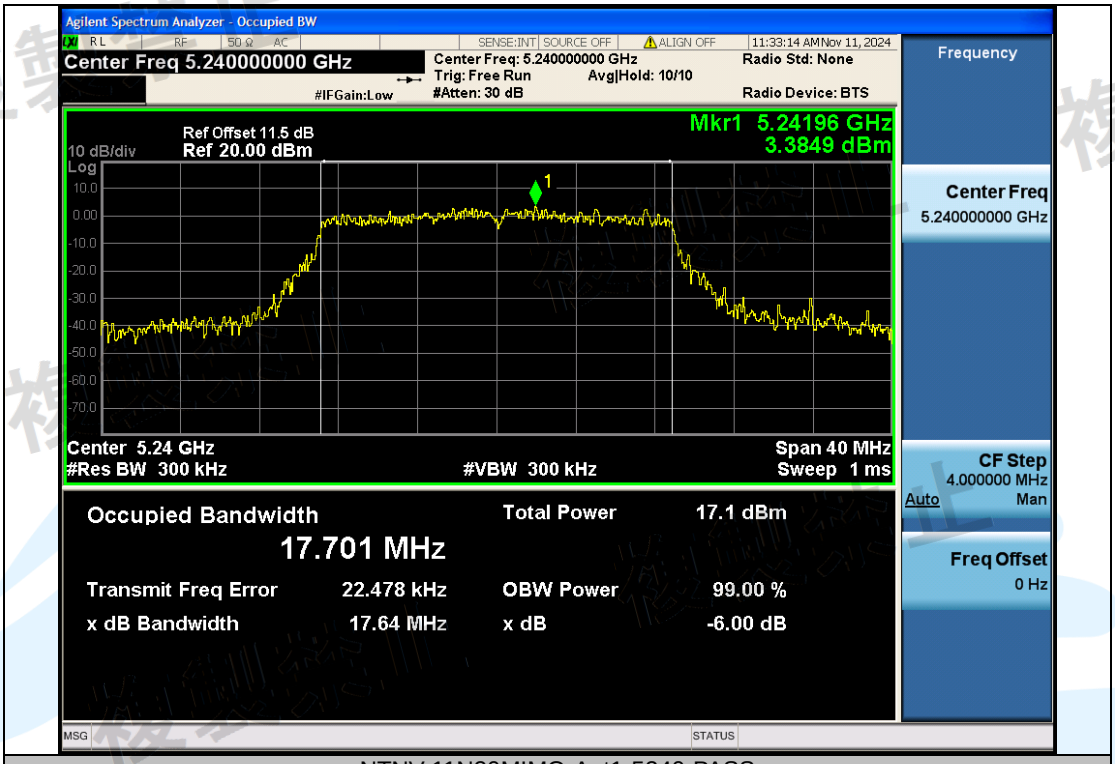
NTNV-11N20MIMO-Ant2-5180-PASS



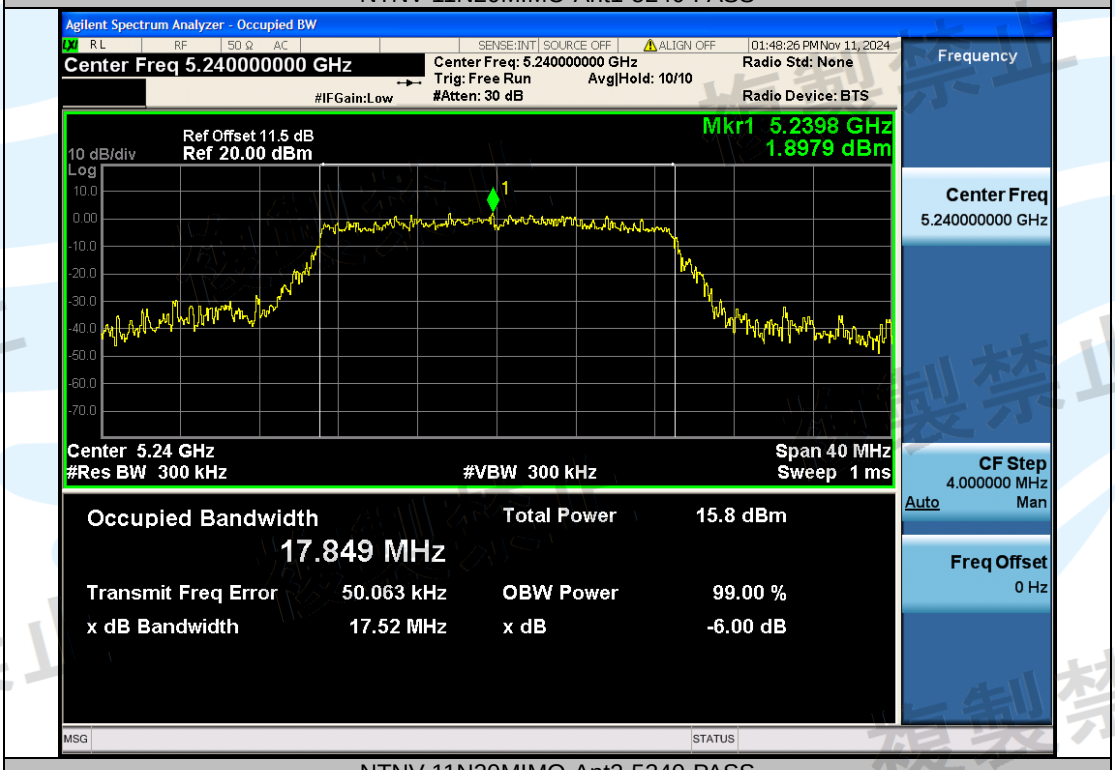
NTNV-11N20MIMO-Ant1-5220-PASS



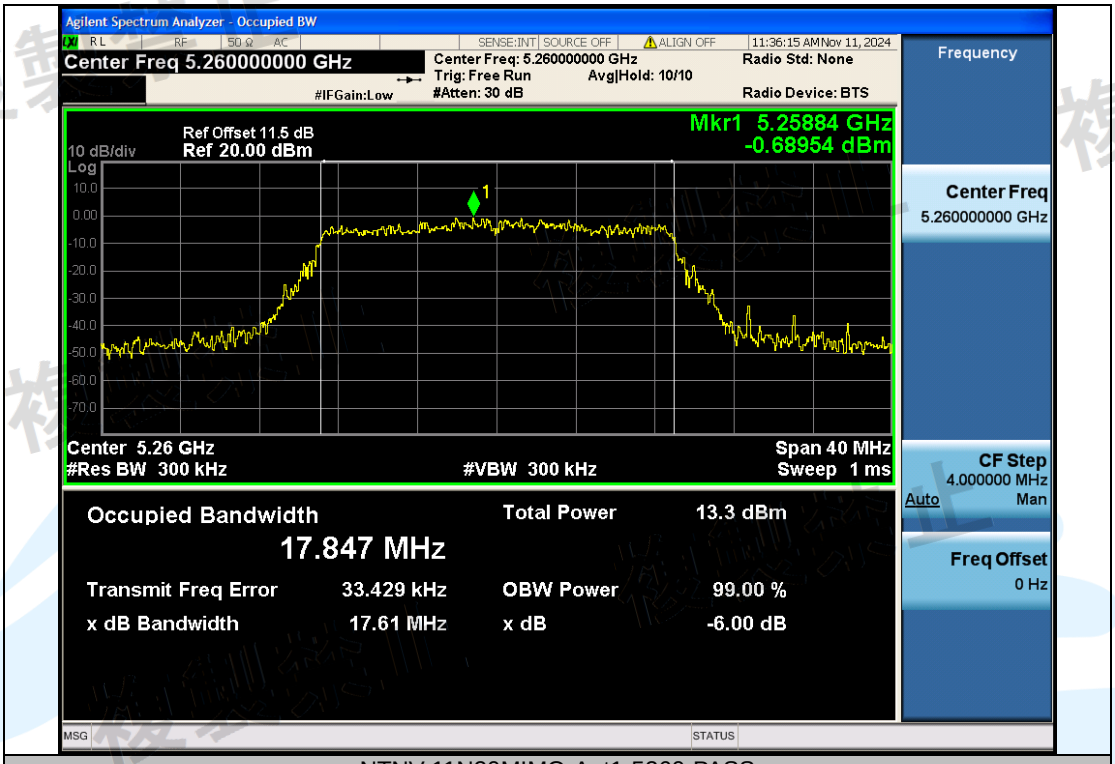
NTNV-11N20MIMO-Ant2-5220-PASS



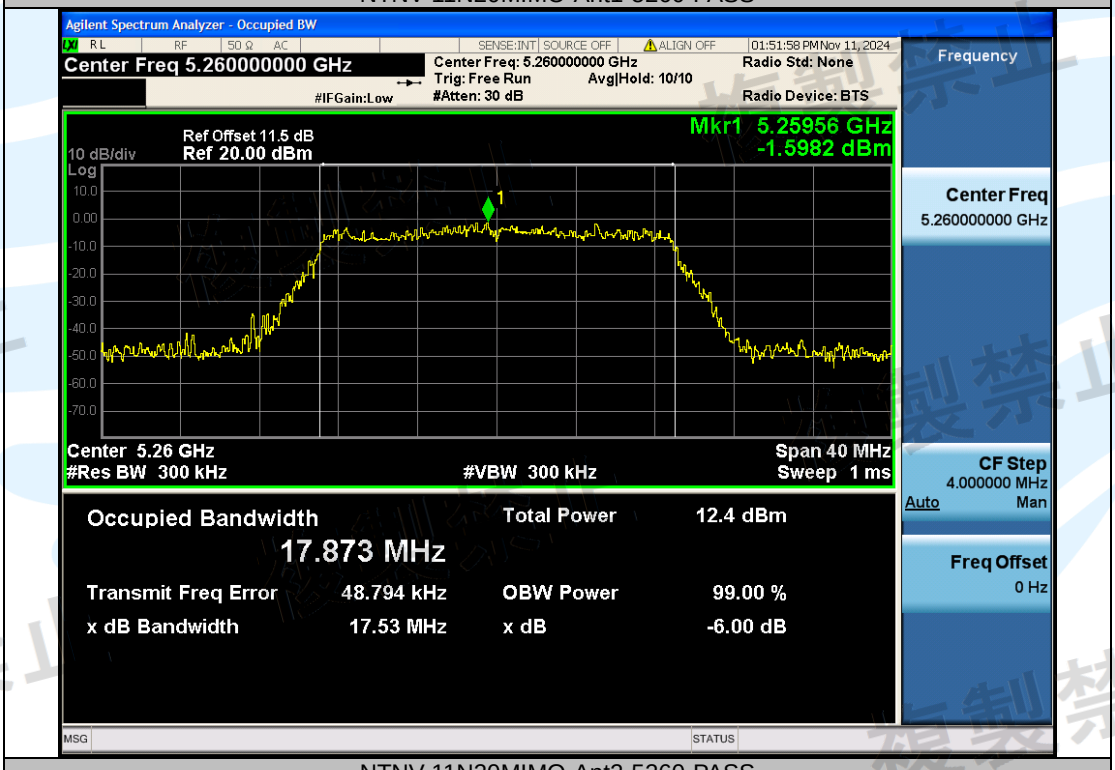
NTNV-11N20MIMO-Ant1-5240-PASS



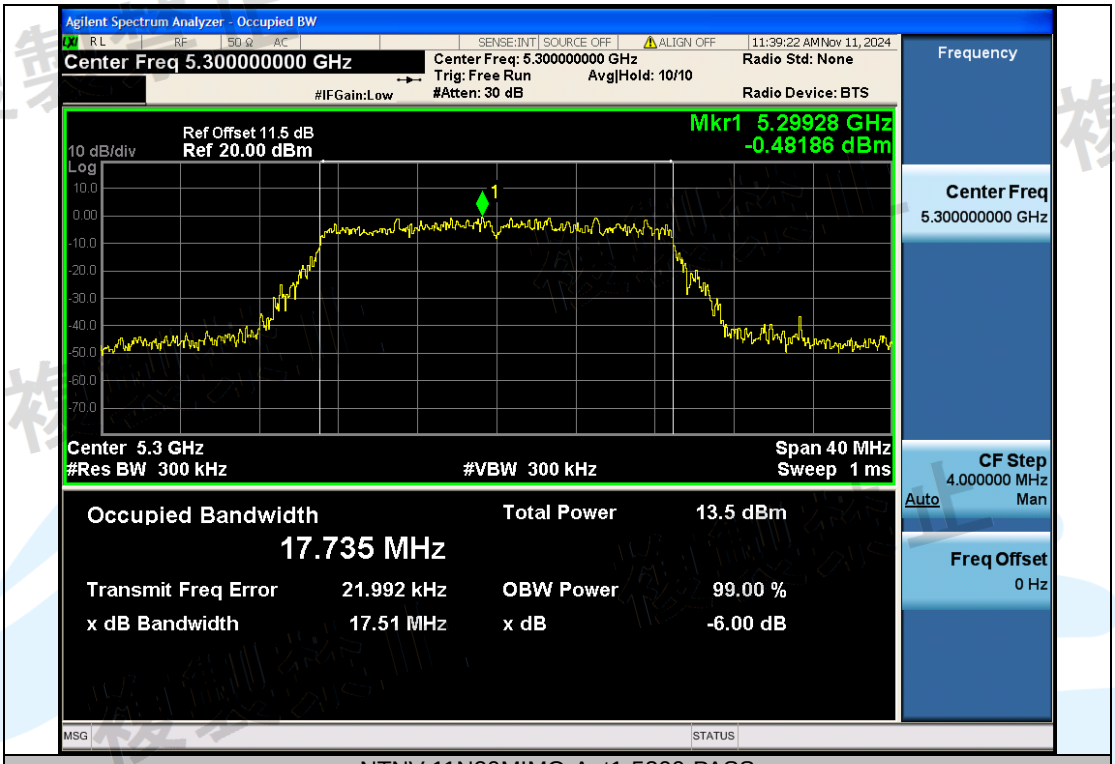
NTNV-11N20MIMO-Ant2-5240-PASS



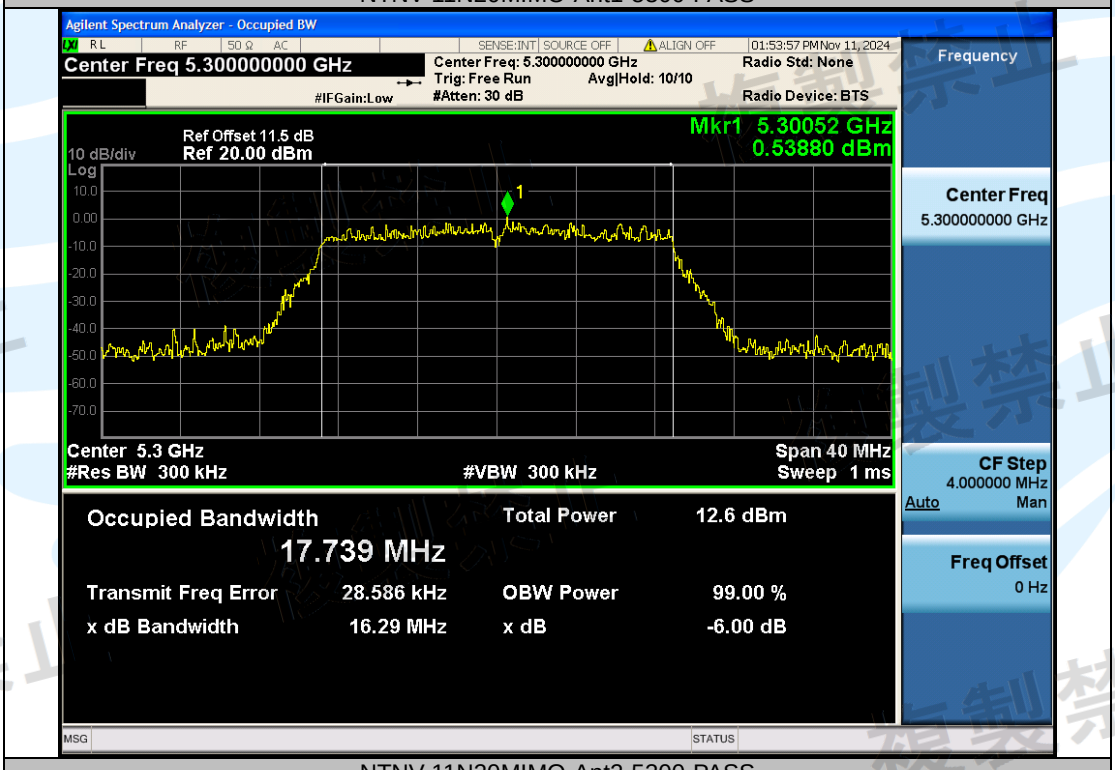
NTNV-11N20MIMO-Ant1-5260-PASS



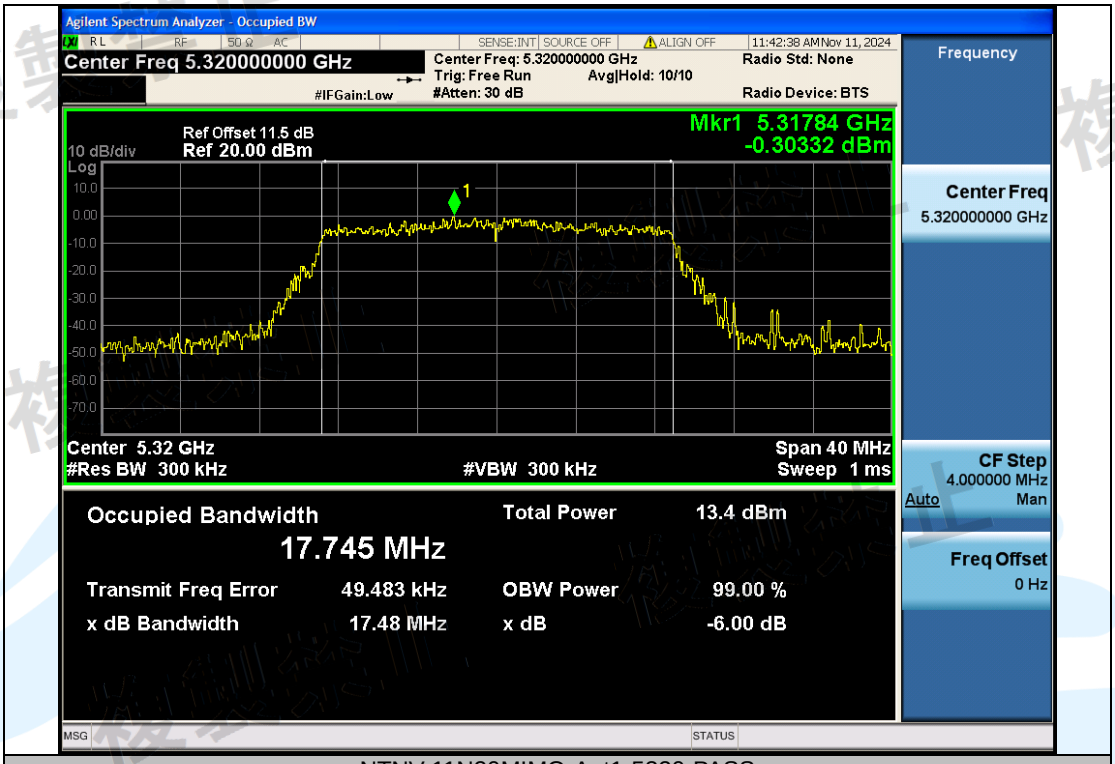
NTNV-11N20MIMO-Ant2-5260-PASS



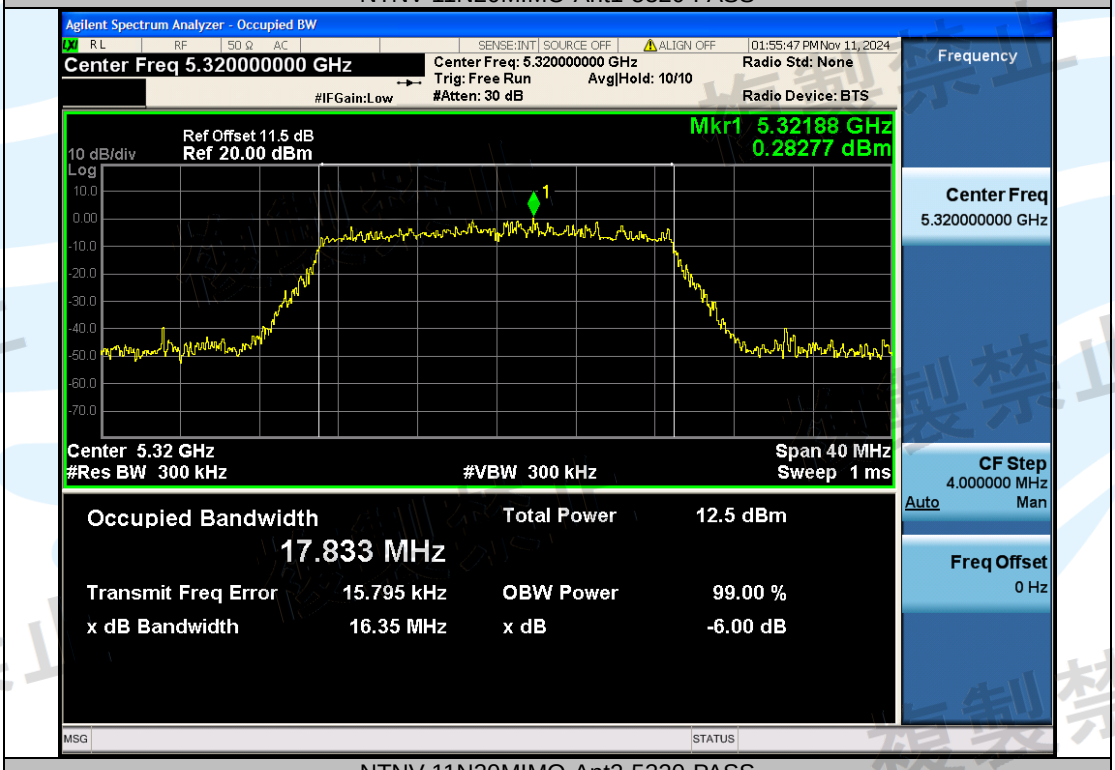
NTNV-11N20MIMO-Ant1-5300-PASS



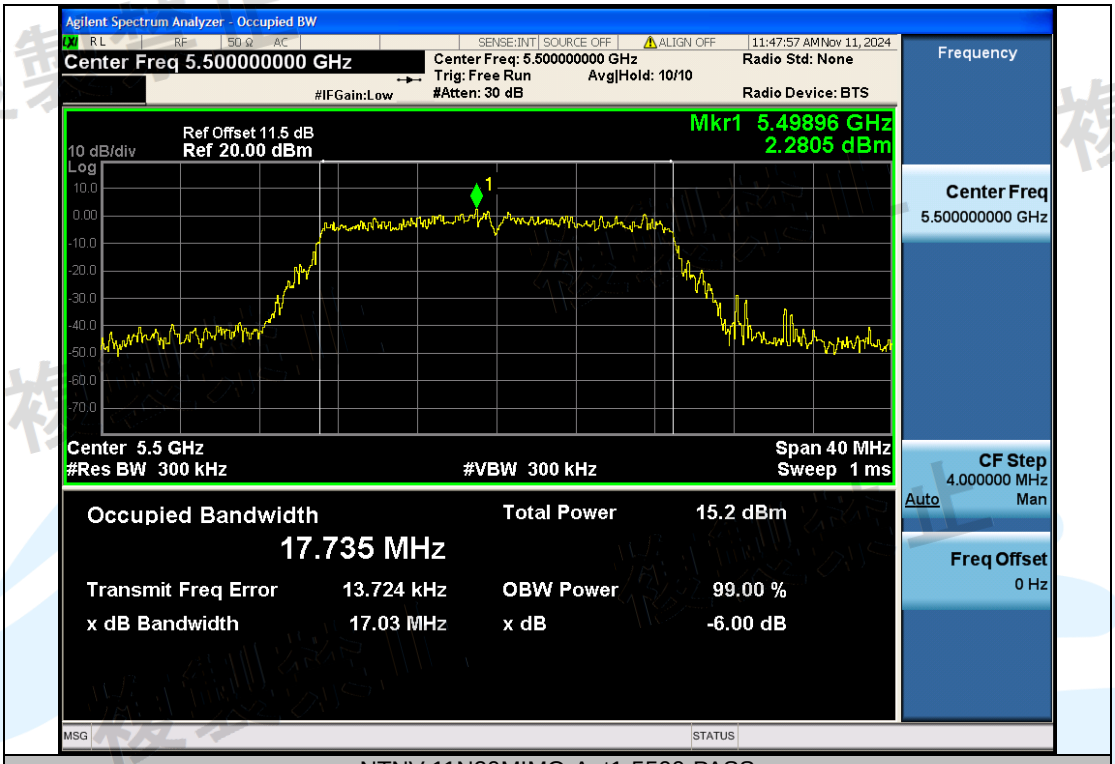
NTNV-11N20MIMO-Ant2-5300-PASS



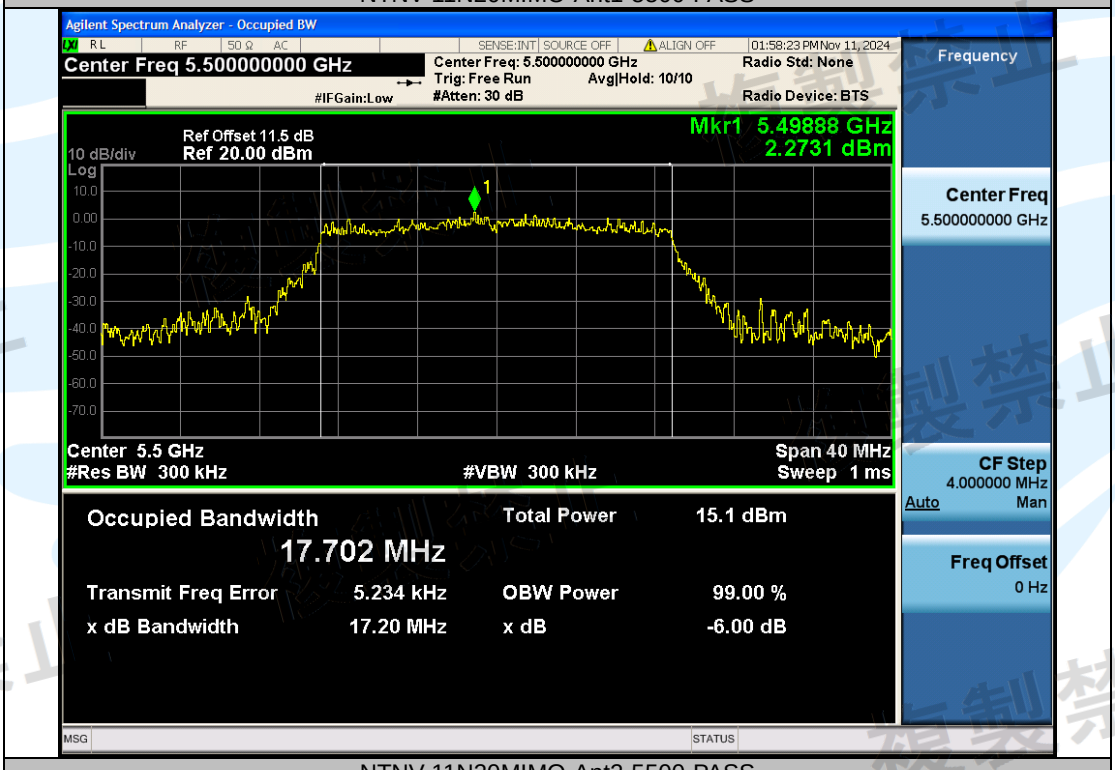
NTNV-11N20MIMO-Ant1-5320-PASS



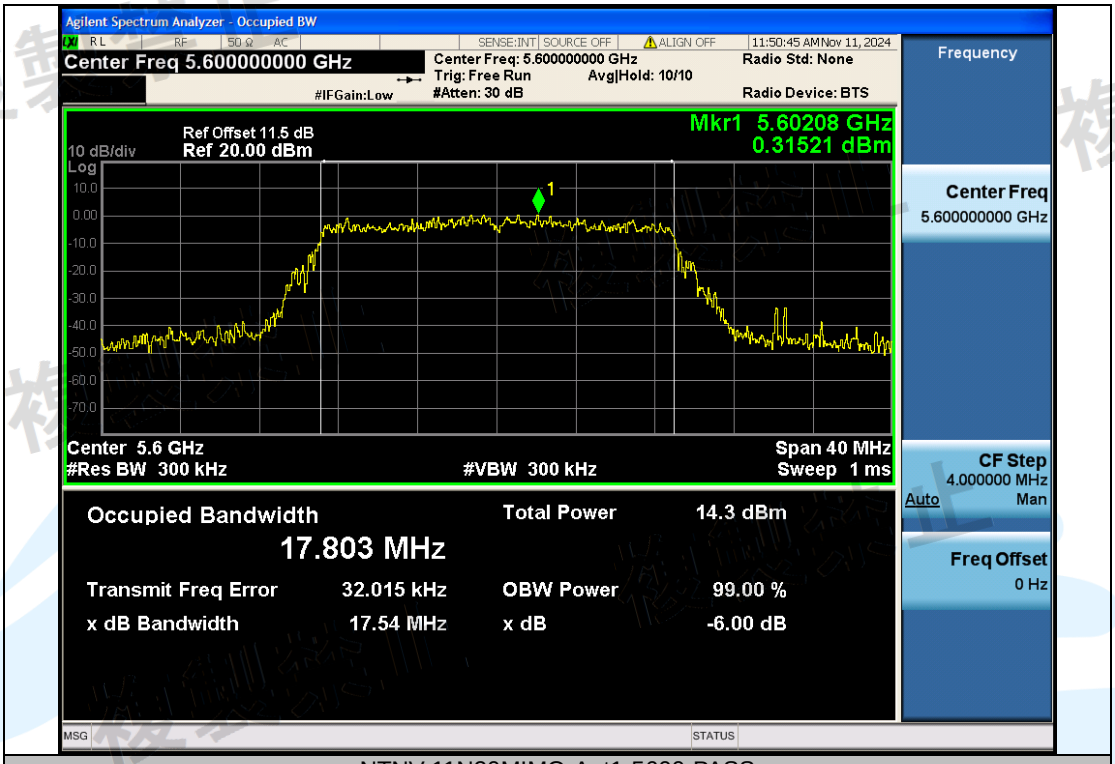
NTNV-11N20MIMO-Ant2-5320-PASS



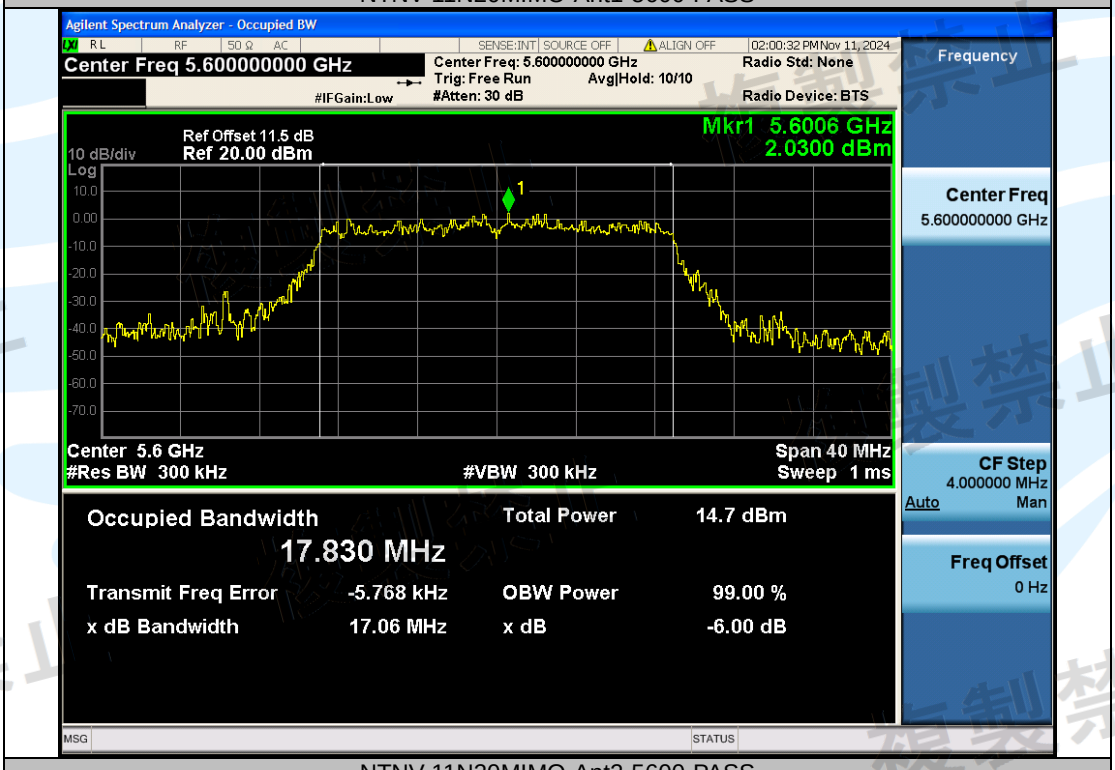
NTNV-11N20MIMO-Ant1-5500-PASS



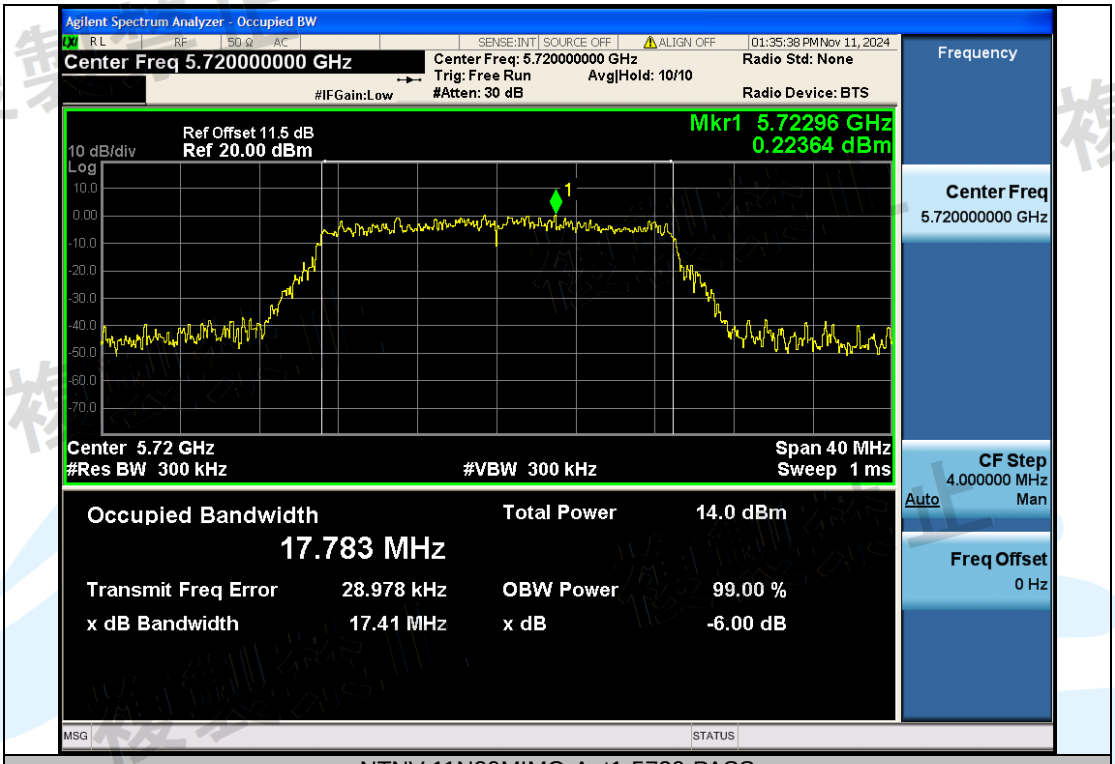
NTNV-11N20MIMO-Ant2-5500-PASS



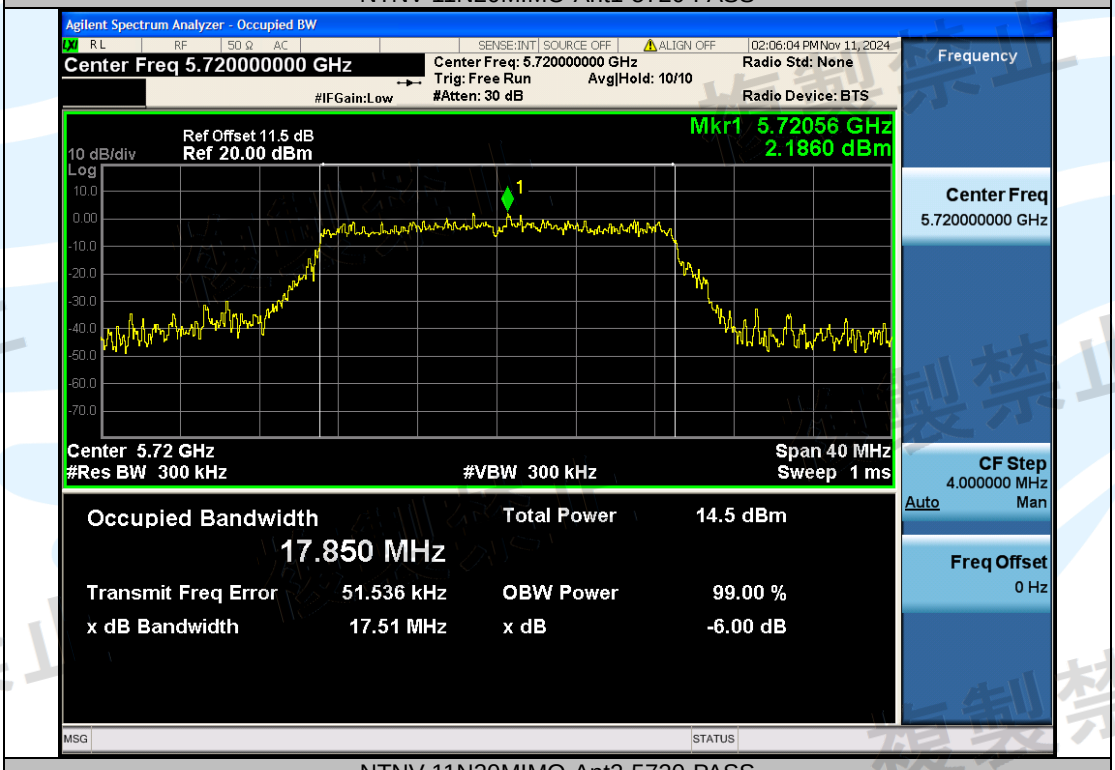
NTNV-11N20MIMO-Ant1-5600-PASS



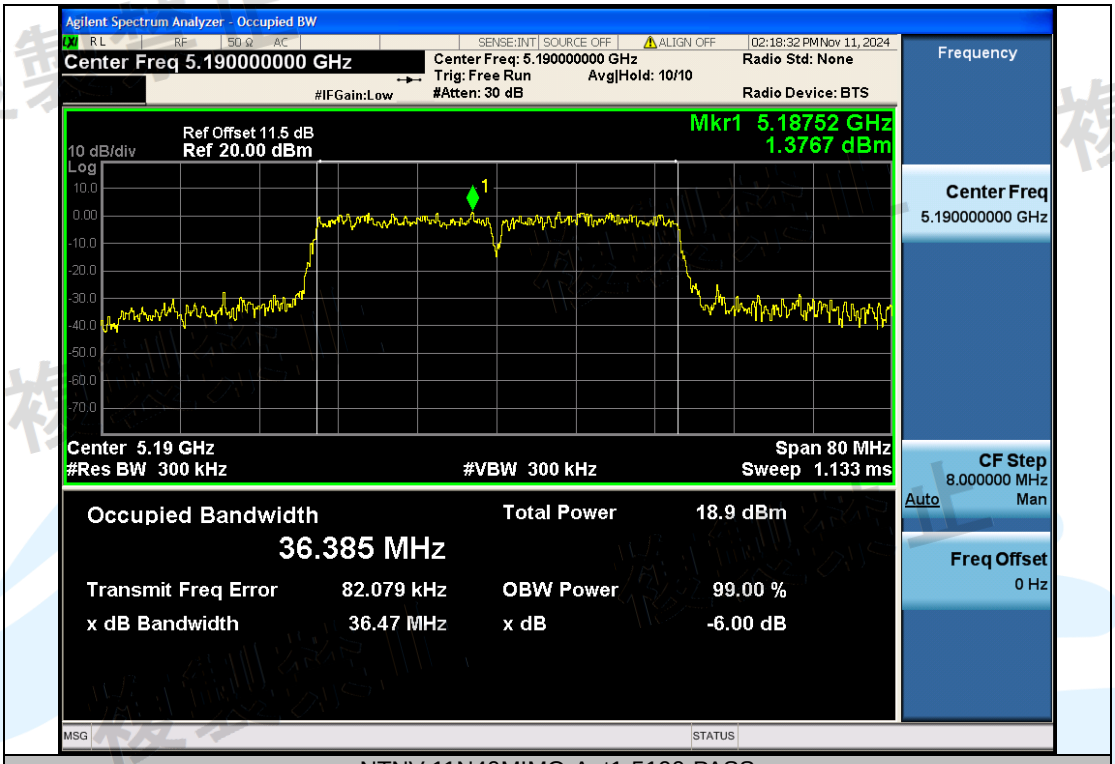
NTNV-11N20MIMO-Ant2-5600-PASS



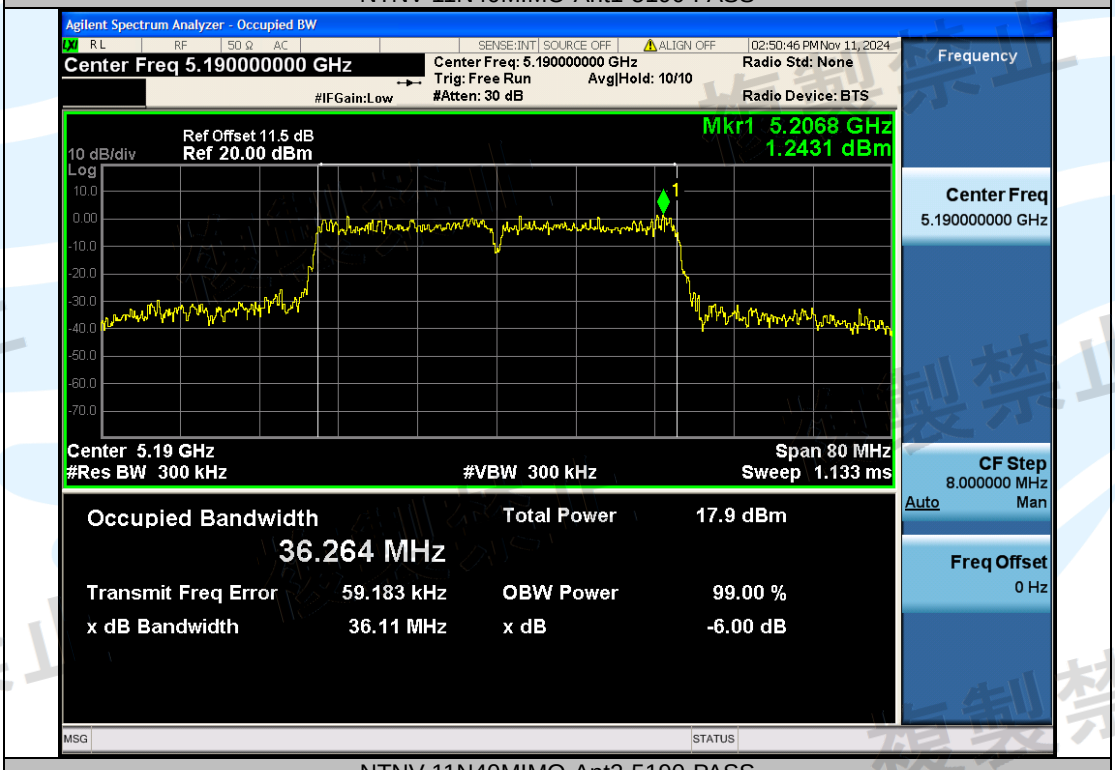
NTNV-11N20MIMO-Ant1-5720-PASS



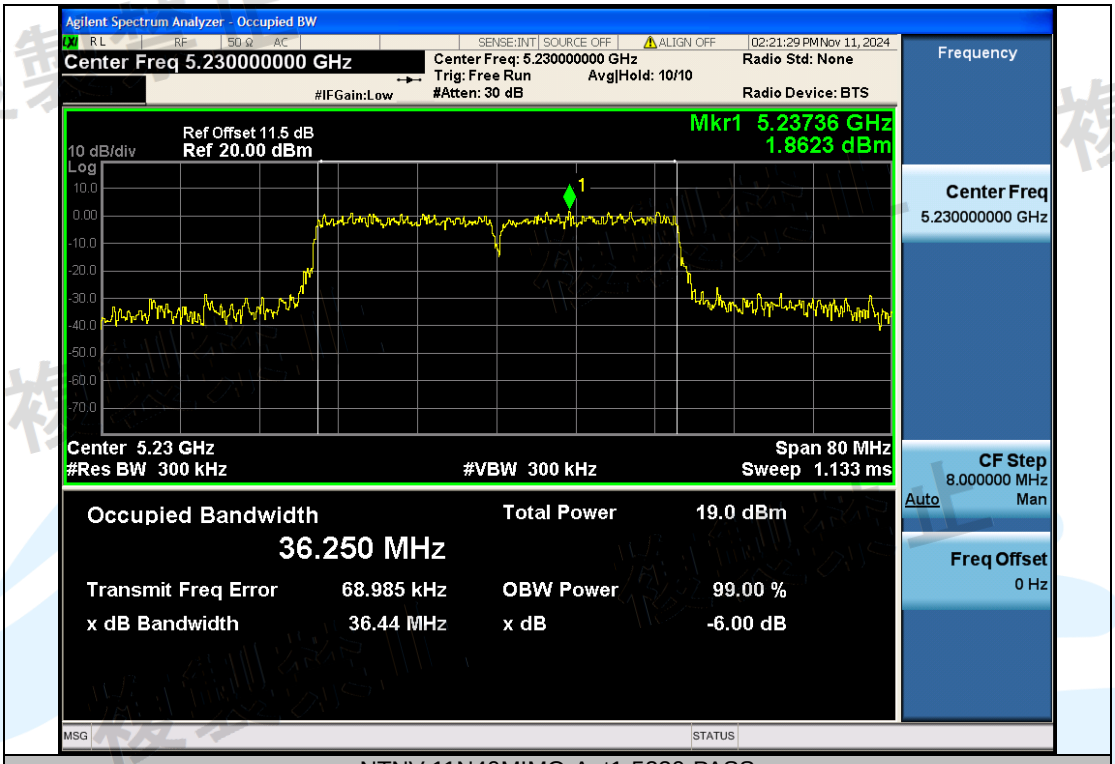
NTNV-11N20MIMO-Ant2-5720-PASS



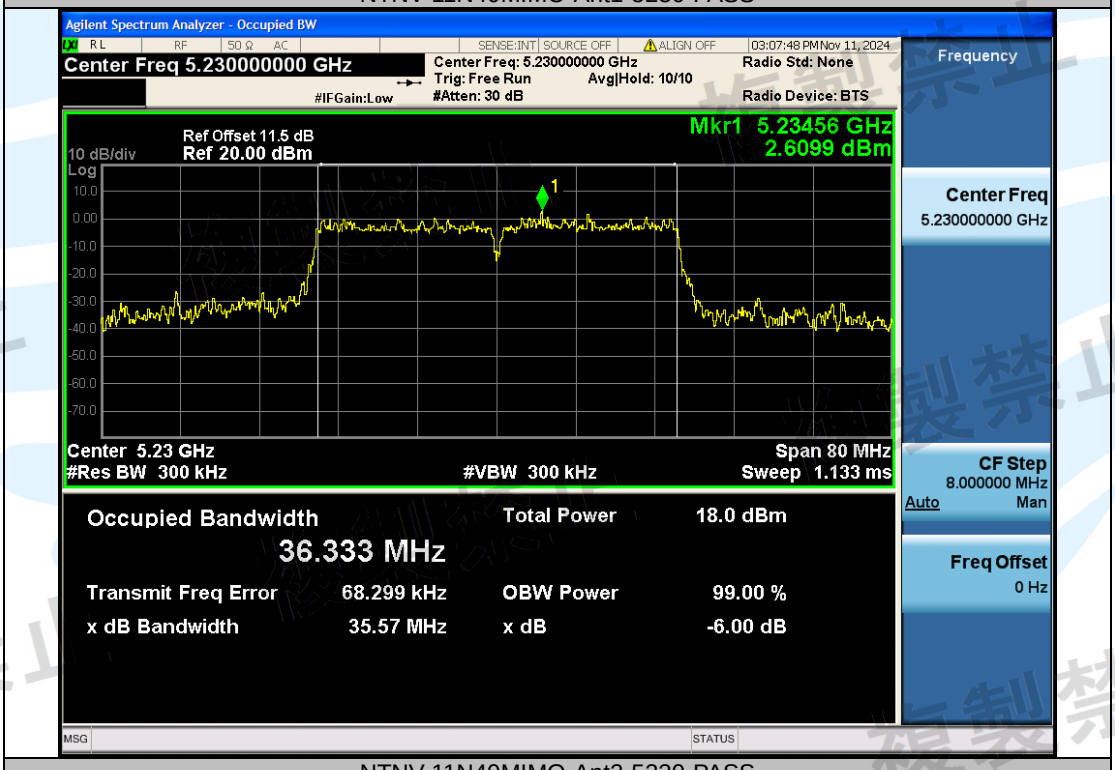
NTNV-11N40MIMO-Ant1-5190-PASS



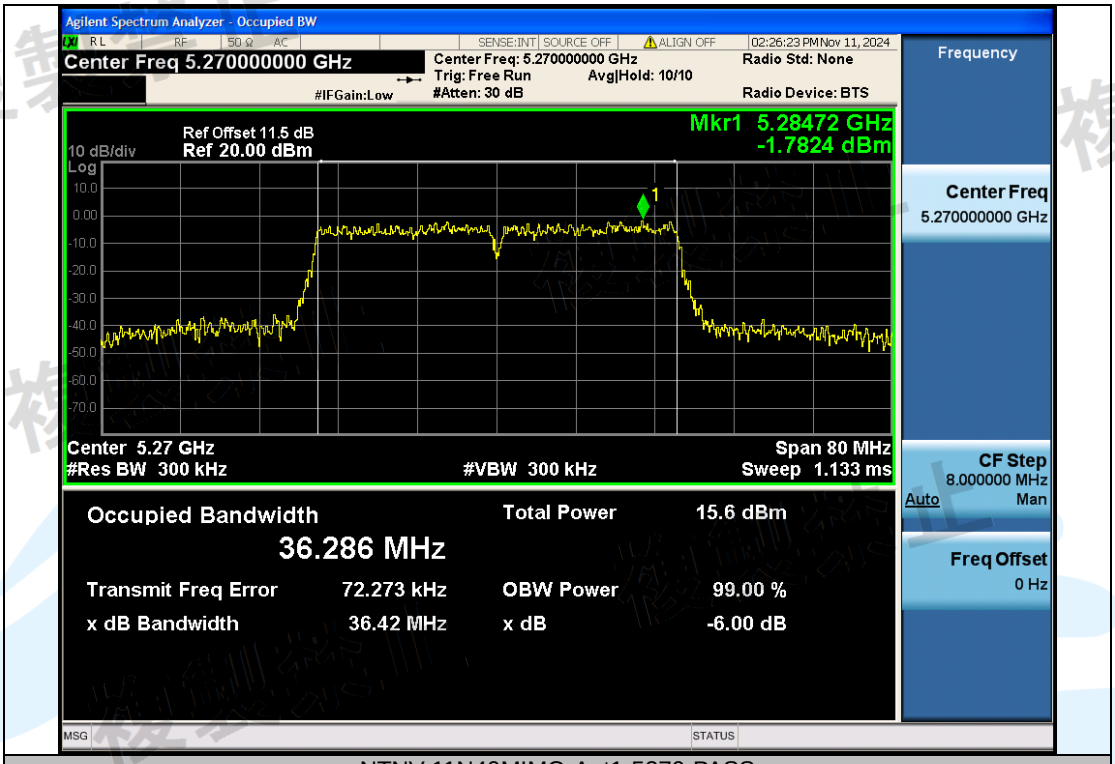
NTNV-11N40MIMO-Ant2-5190-PASS



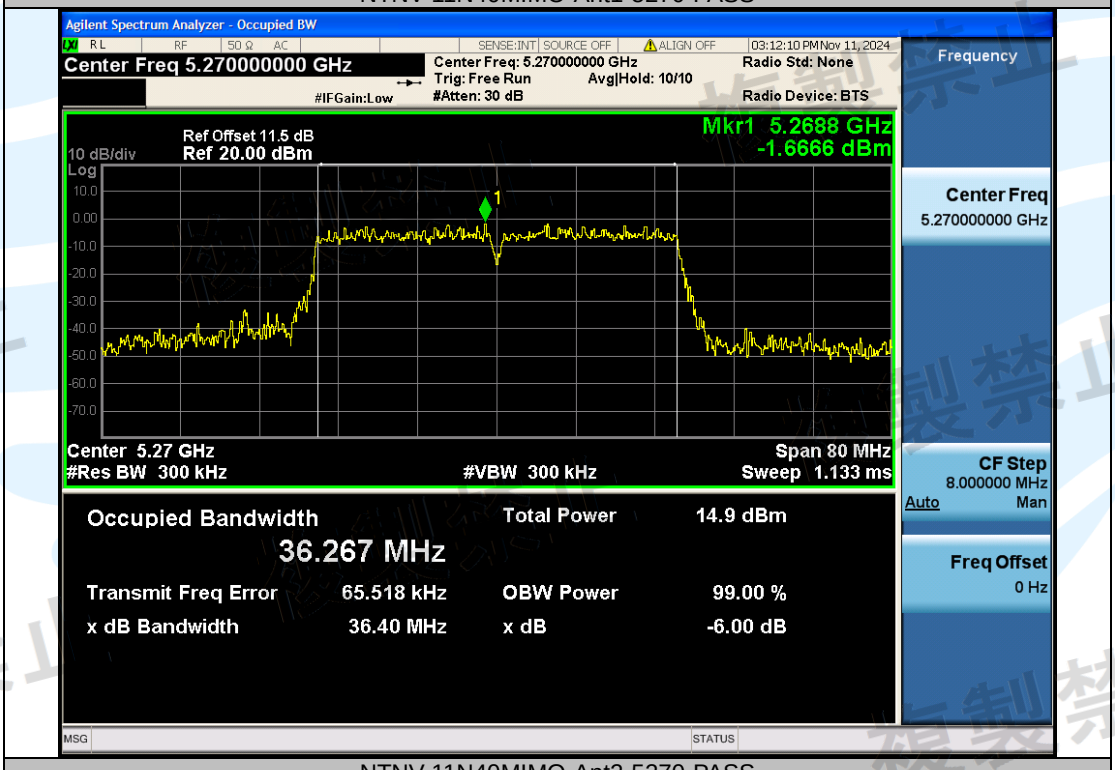
NTNV-11N40MIMO-Ant1-5230-PASS



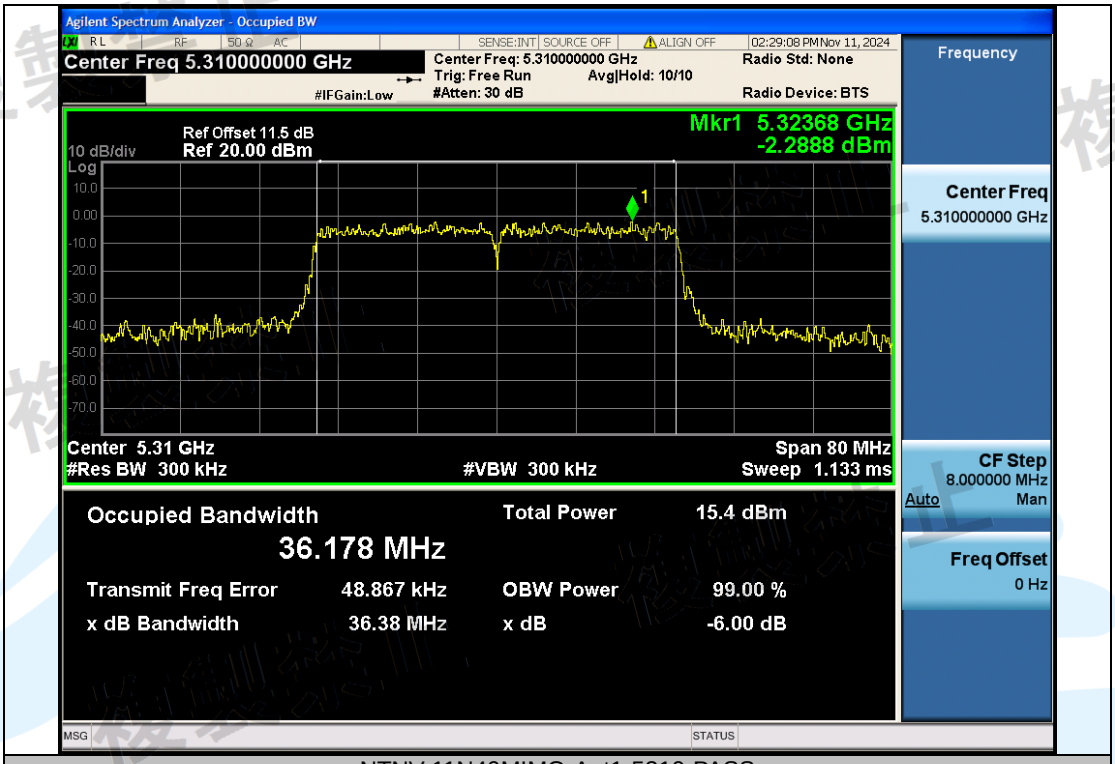
NTNV-11N40MIMO-Ant2-5230-PASS



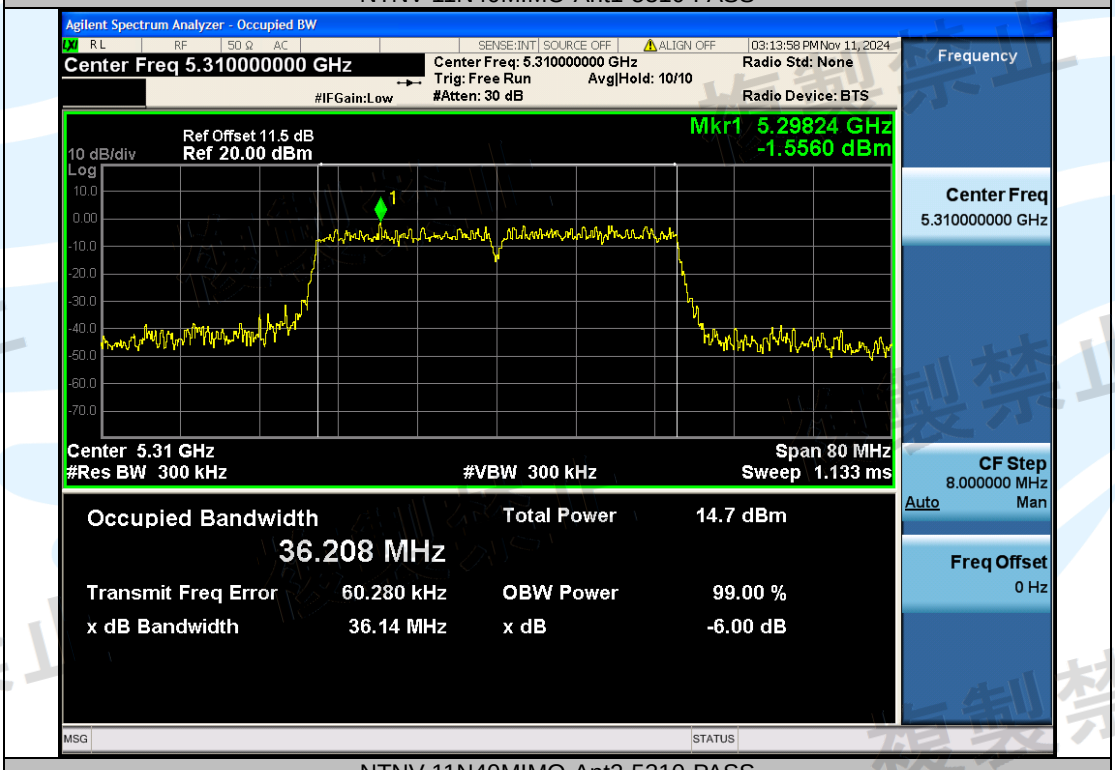
NTNV-11N40MIMO-Ant1-5270-PASS



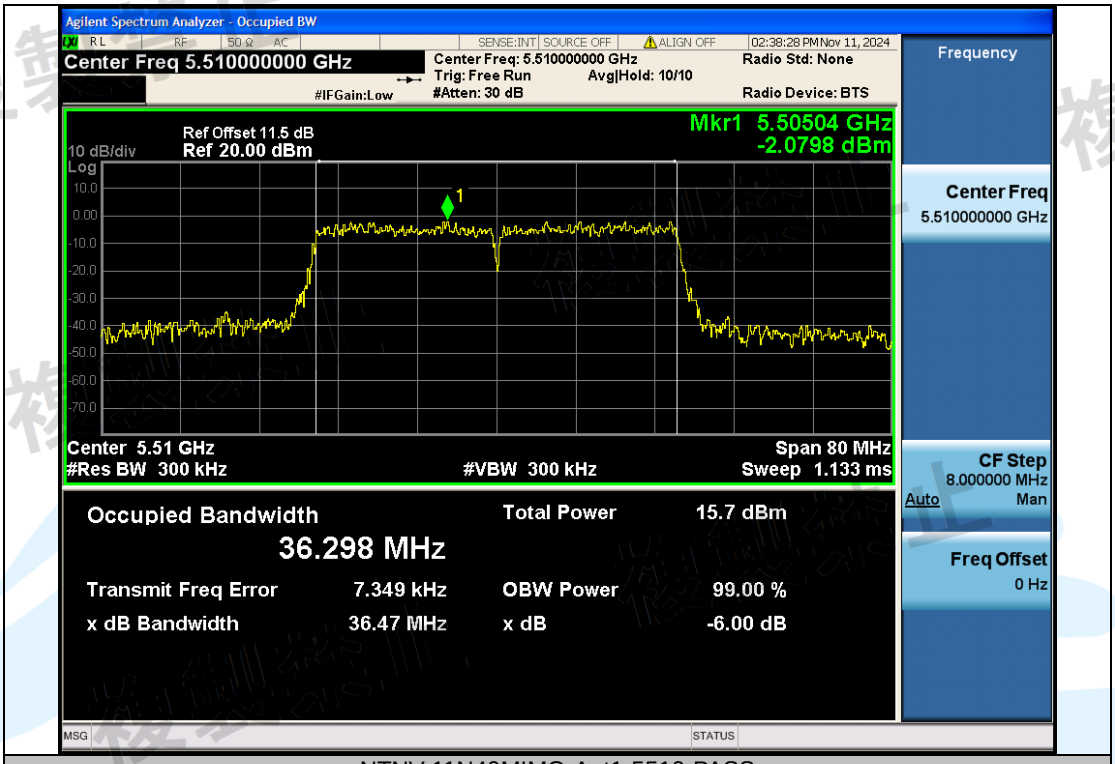
NTNV-11N40MIMO-Ant2-5270-PASS



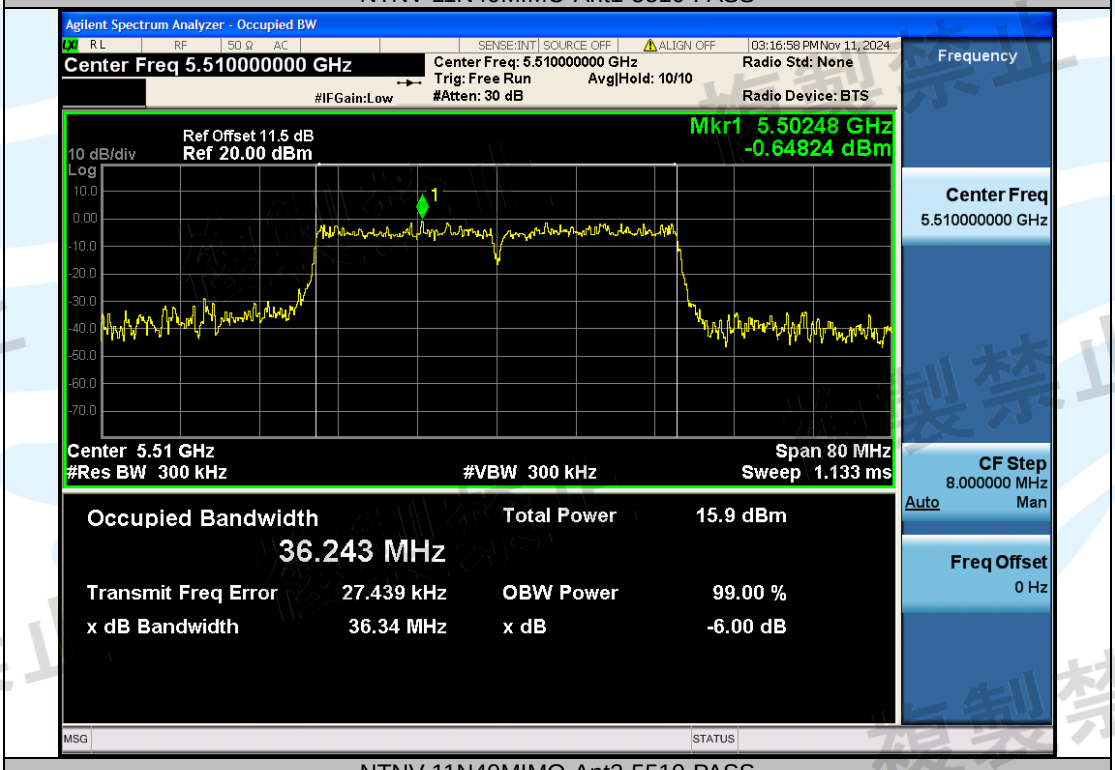
NTNV-11N40MIMO-Ant1-5310-PASS



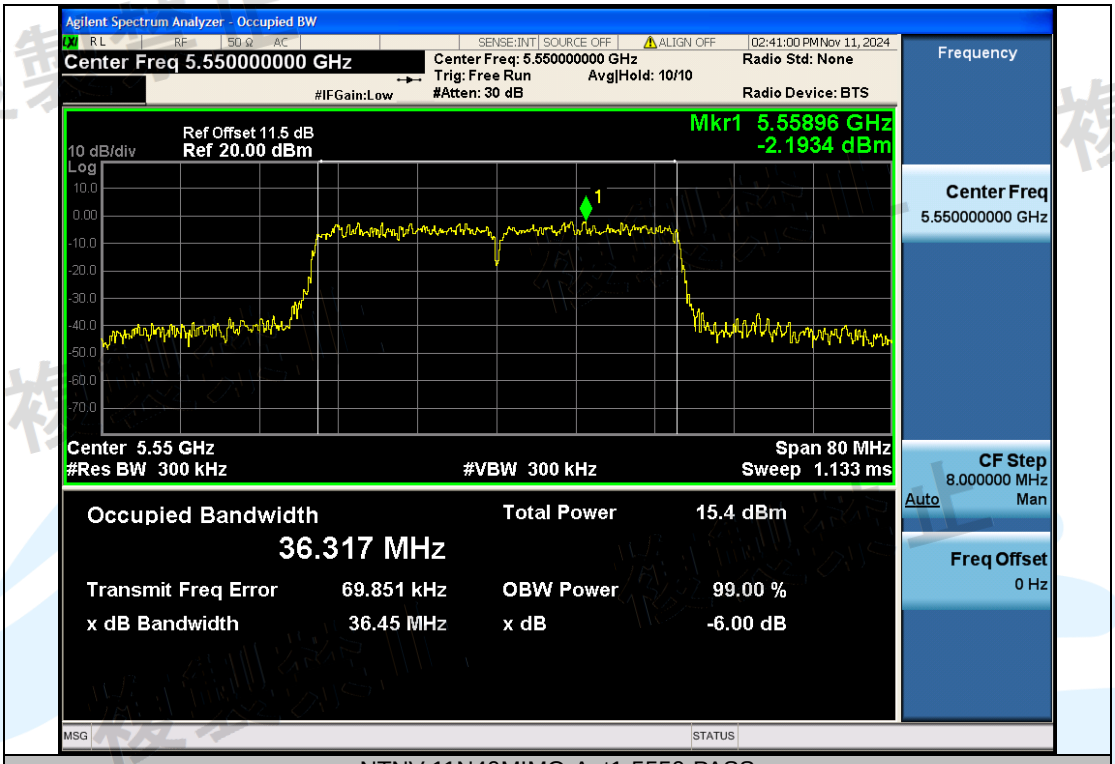
NTNV-11N40MIMO-Ant2-5310-PASS



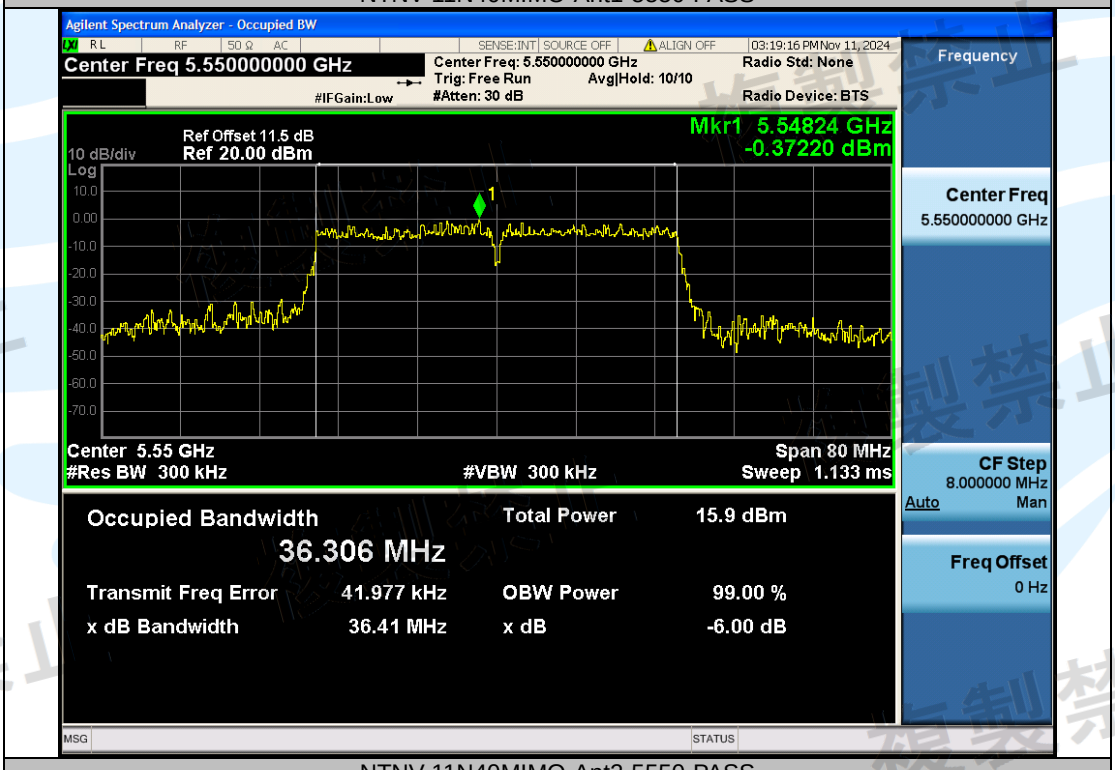
NTNV-11N40MIMO-Ant1-5510-PASS



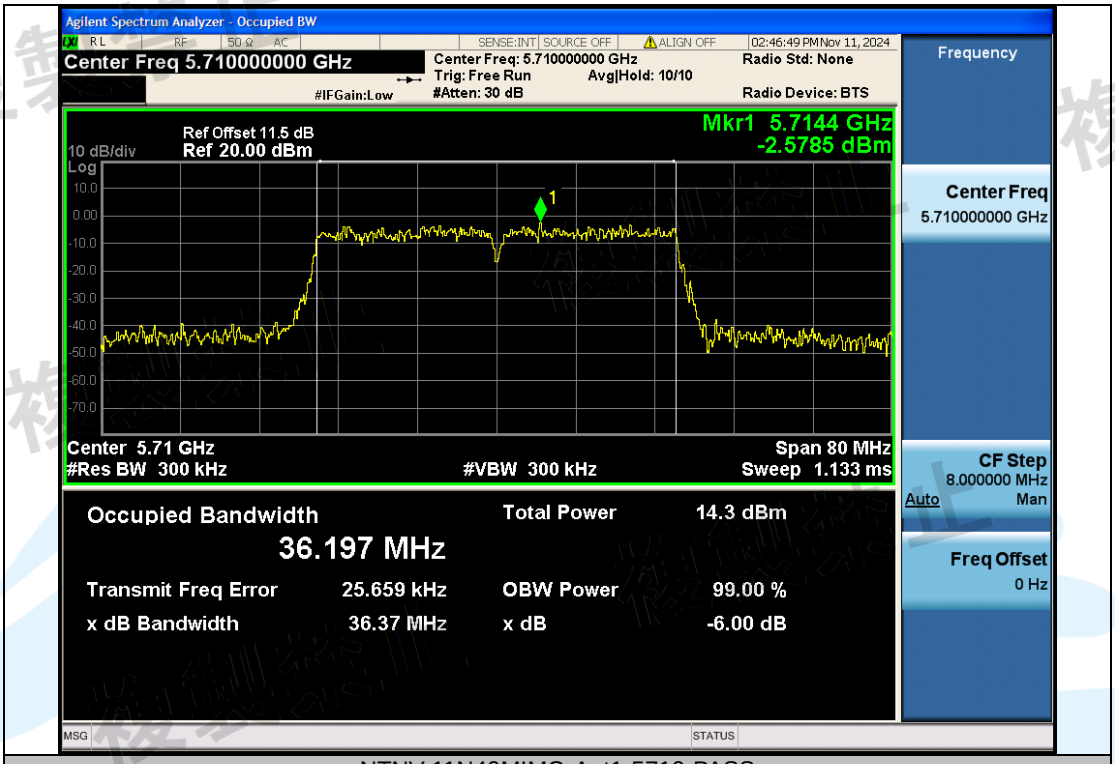
NTNV-11N40MIMO-Ant2-5510-PASS



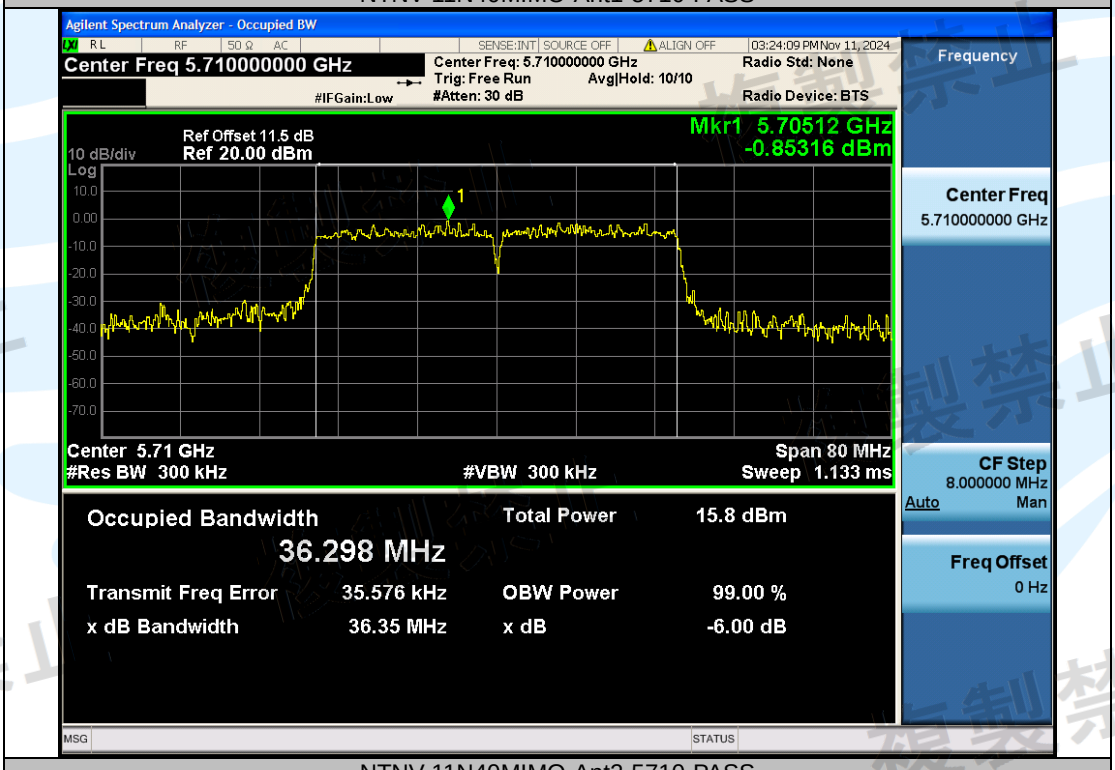
NTNV-11N40MIMO-Ant1-5550-PASS



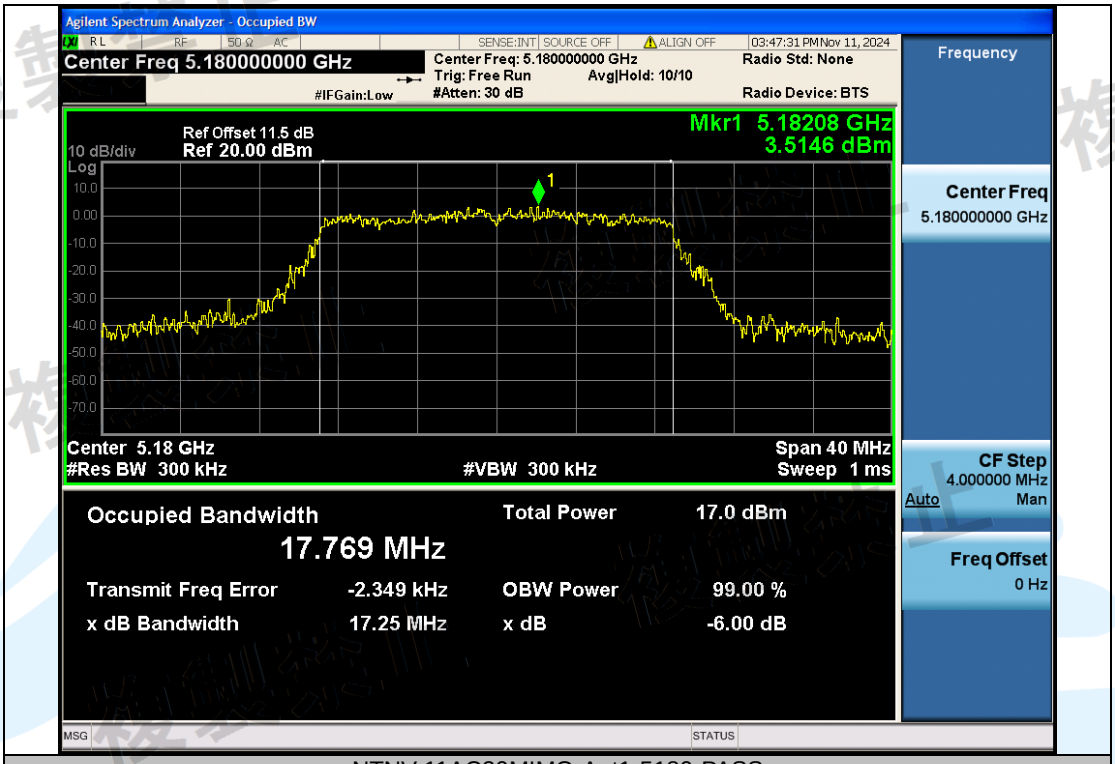
NTNV-11N40MIMO-Ant2-5550-PASS



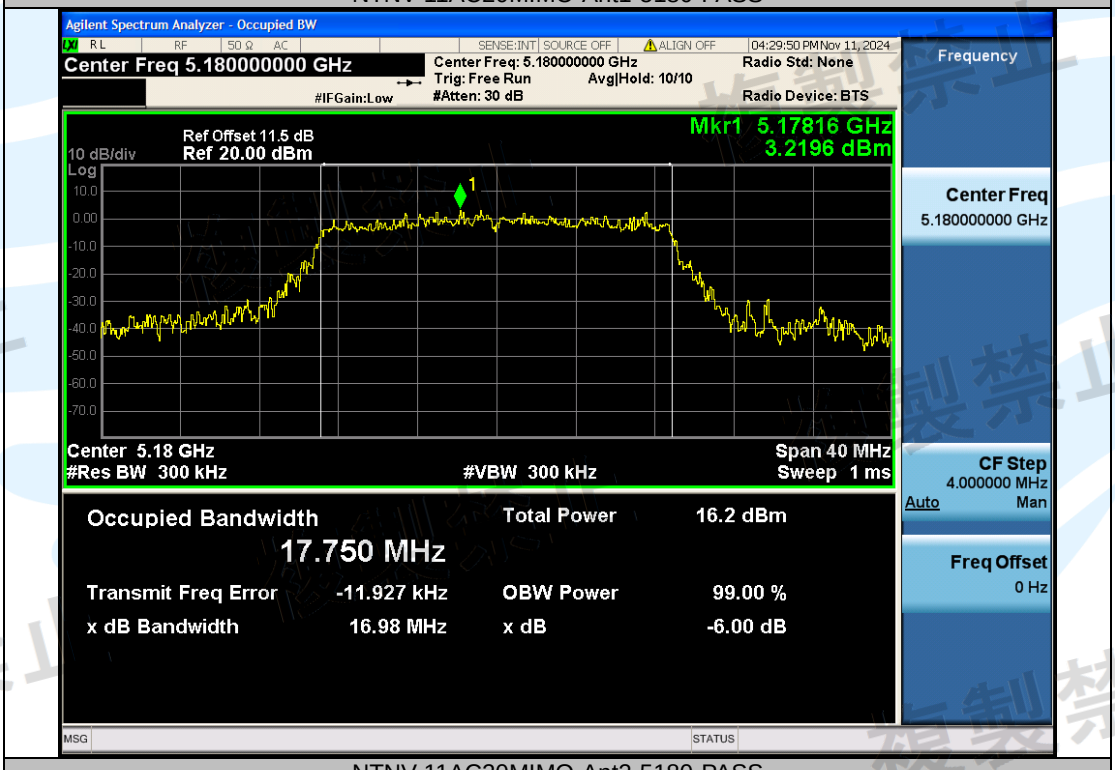
NTNV-11N40MIMO-Ant1-5710-PASS



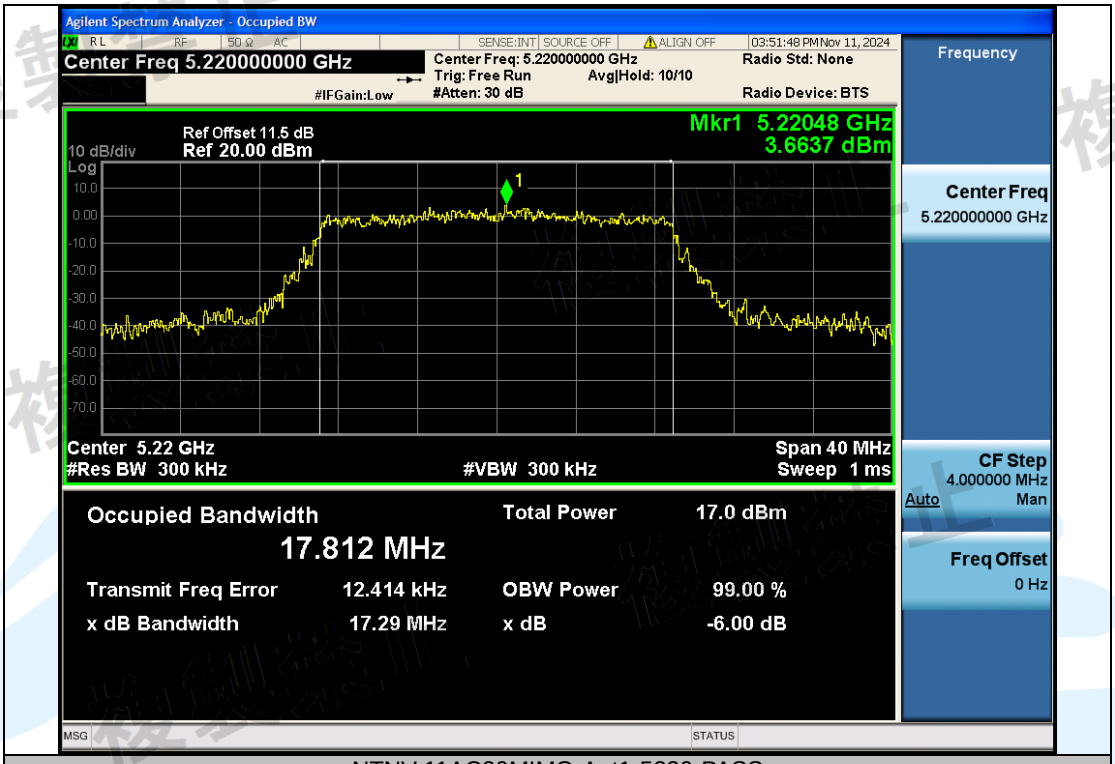
NTNV-11N40MIMO-Ant2-5710-PASS



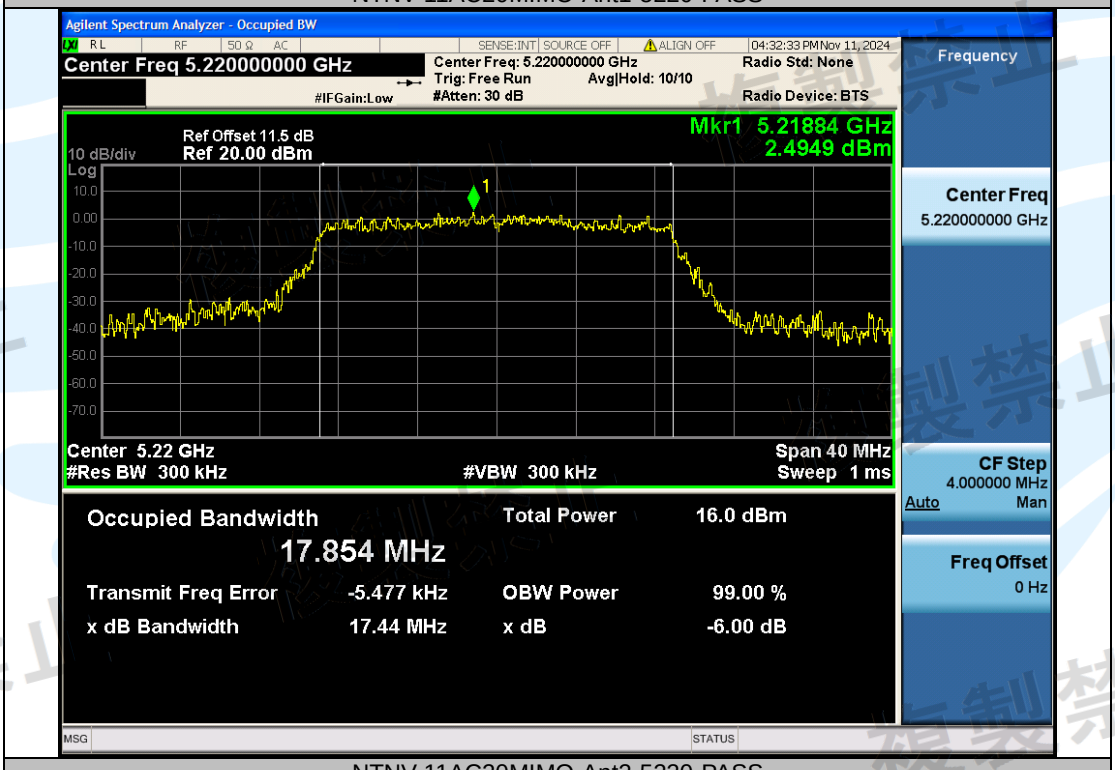
NTNV-11AC20MIMO-Ant1-5180-PASS



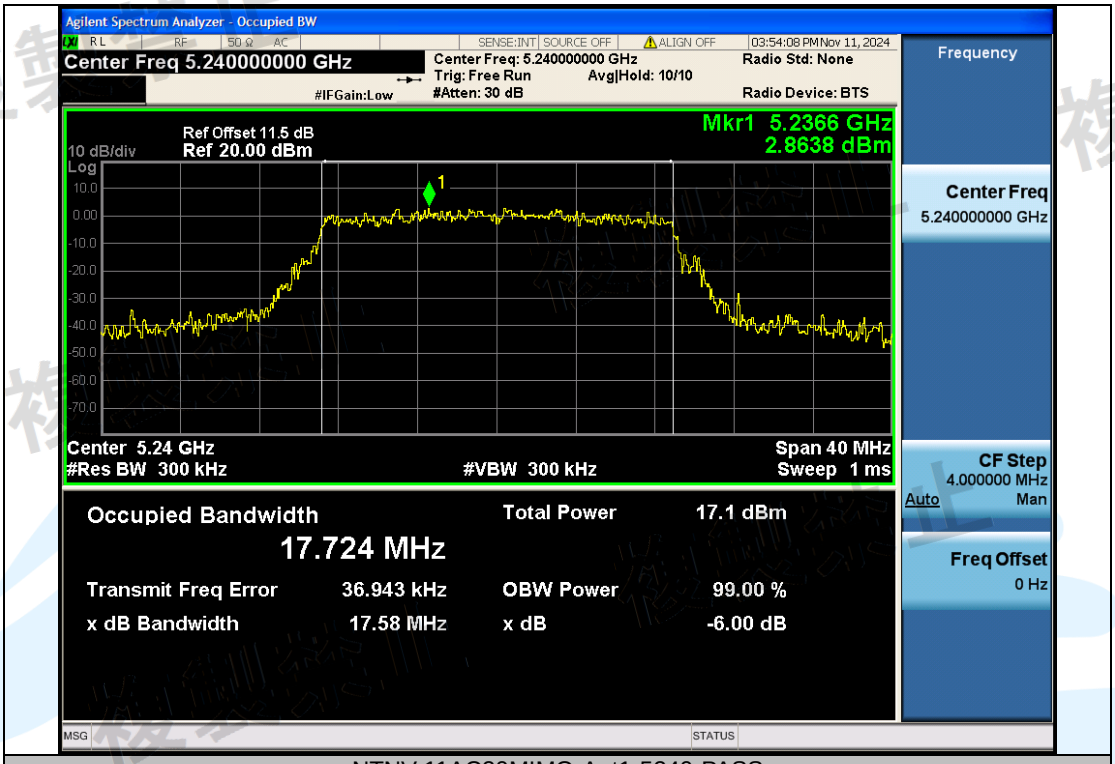
NTNV-11AC20MIMO-Ant2-5180-PASS



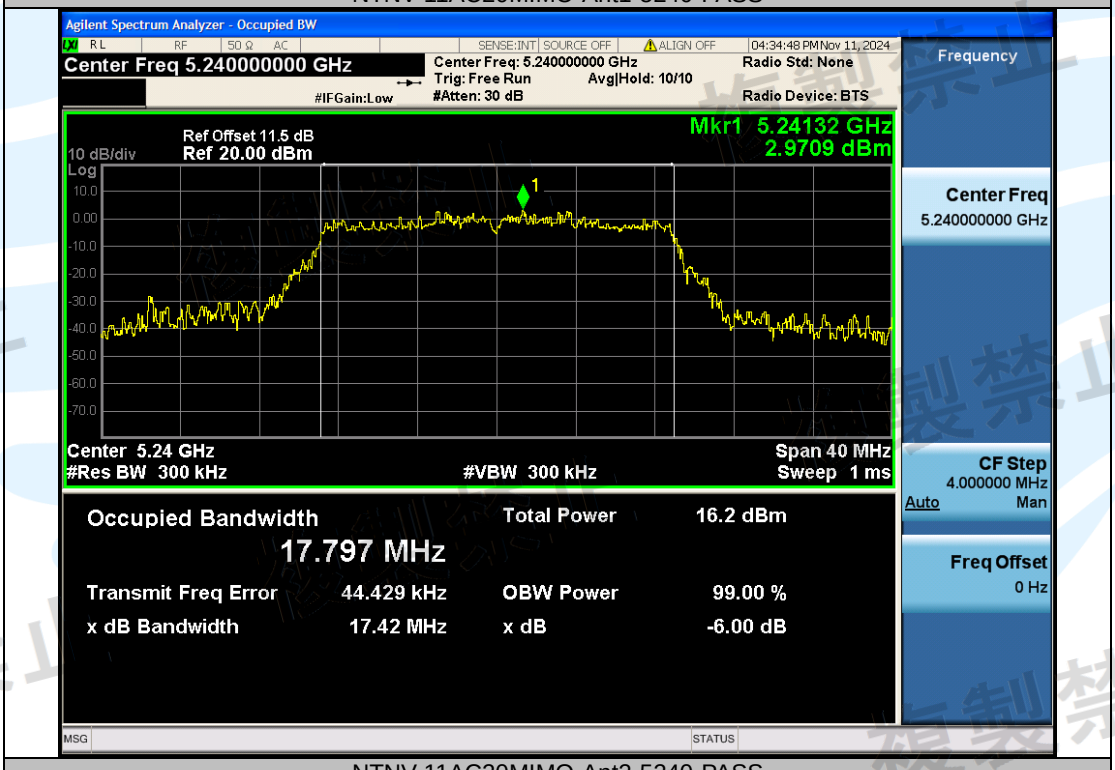
NTNV-11AC20MIMO-Ant1-5220-PASS



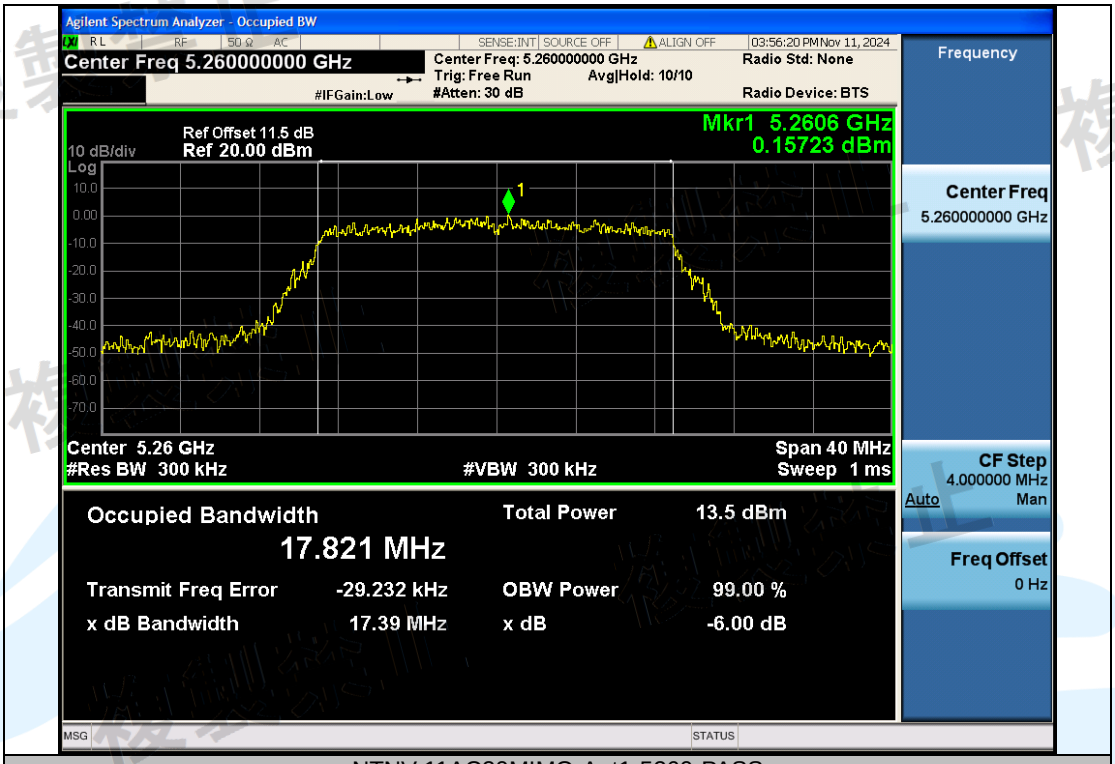
NTNV-11AC20MIMO-Ant2-5220-PASS



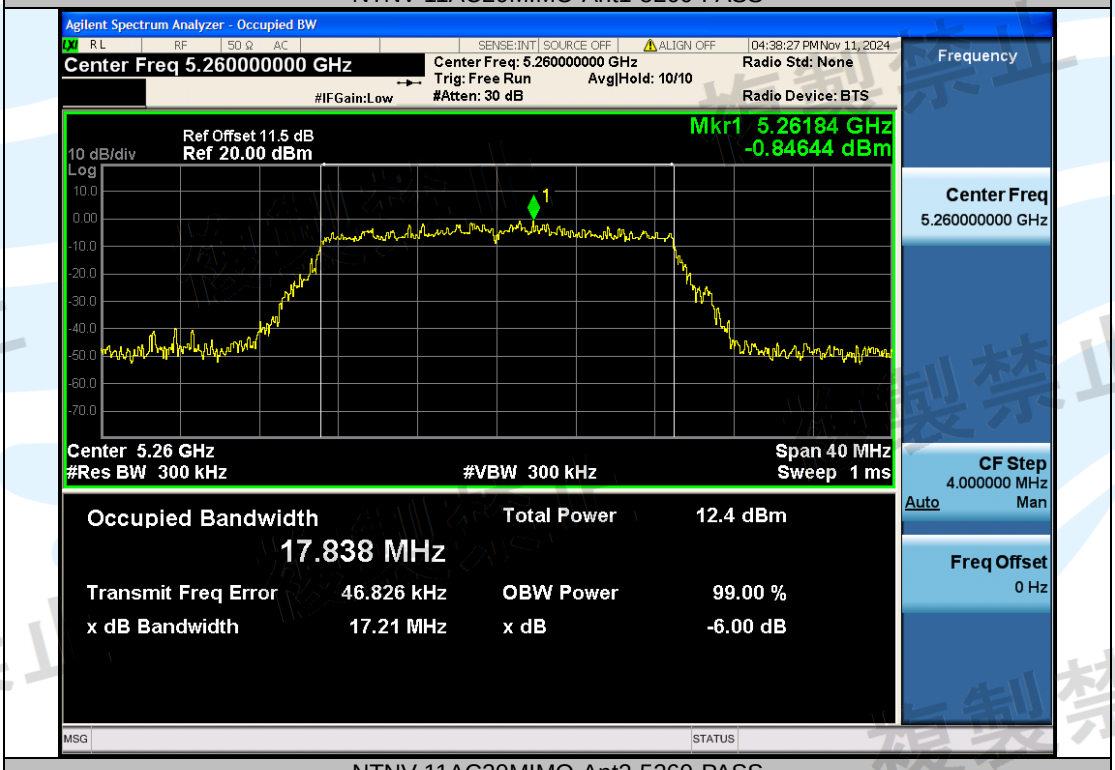
NTNV-11AC20MIMO-Ant1-5240-PASS



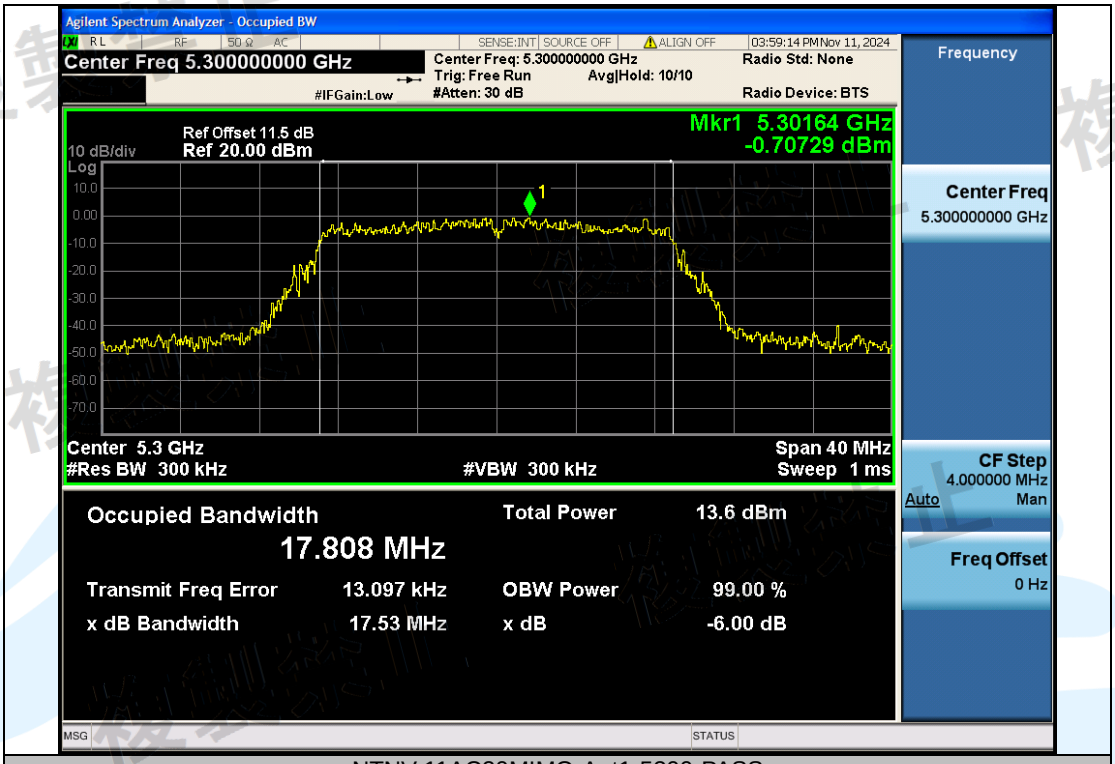
NTNV-11AC20MIMO-Ant2-5240-PASS



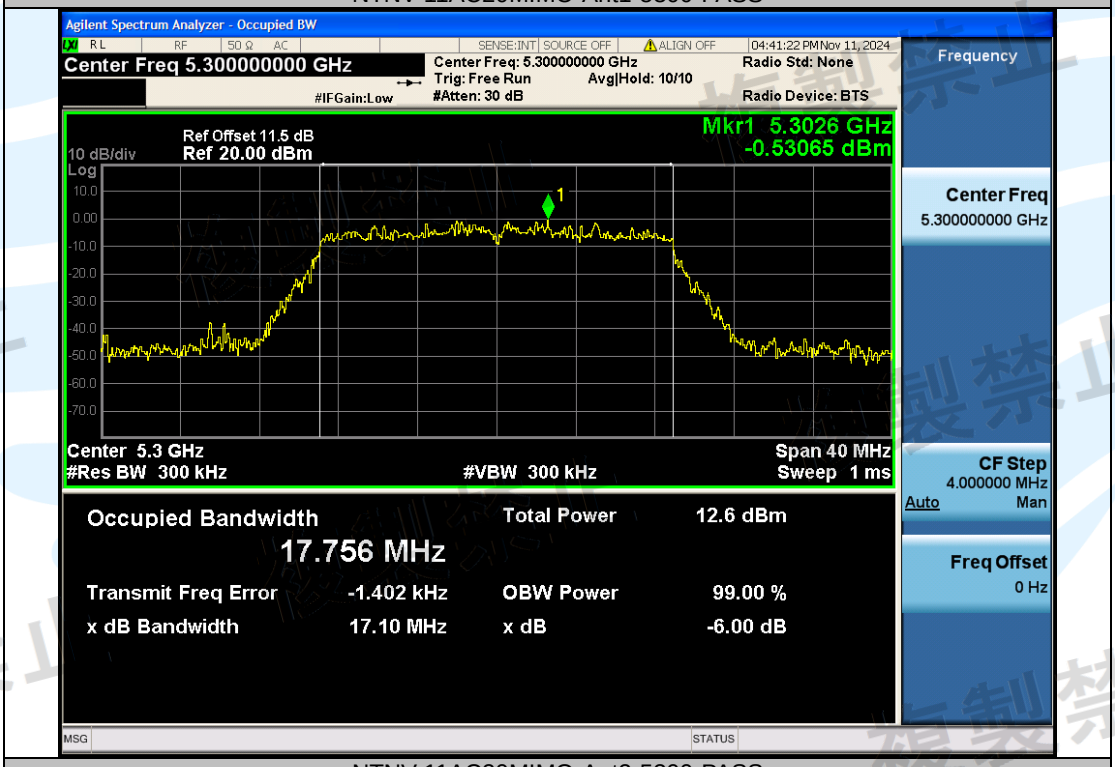
NTNV-11AC20MIMO-Ant1-5260-PASS



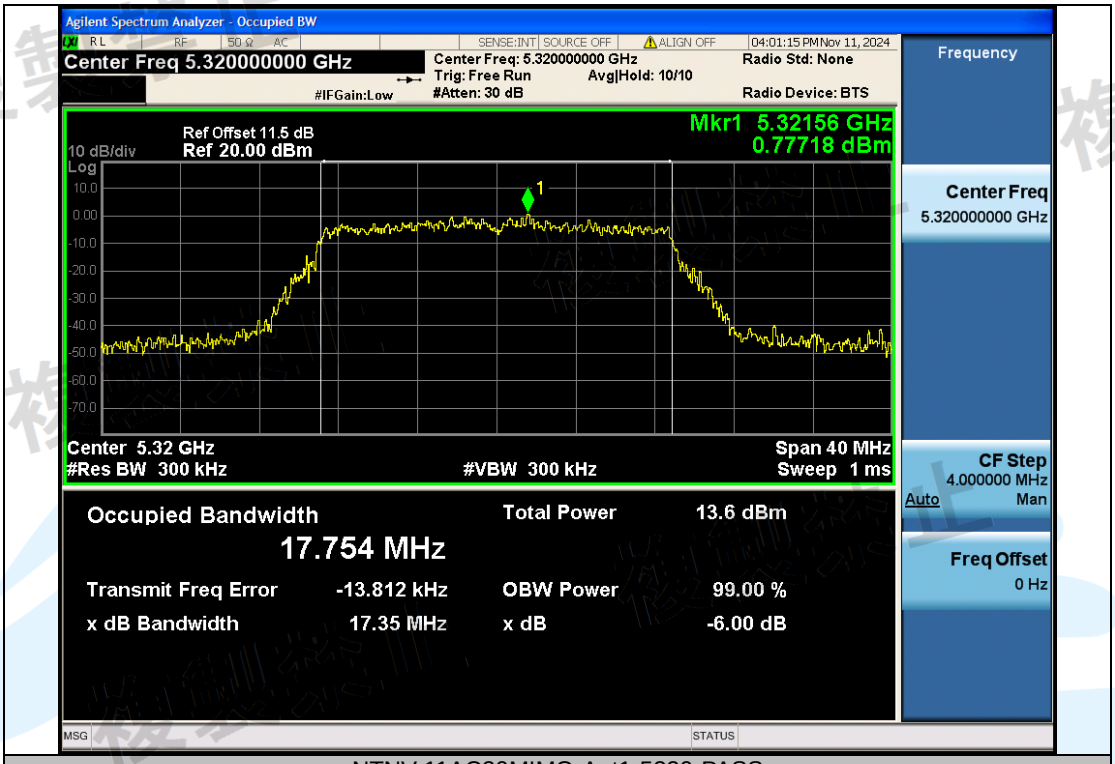
NTNV-11AC20MIMO-Ant2-5260-PASS



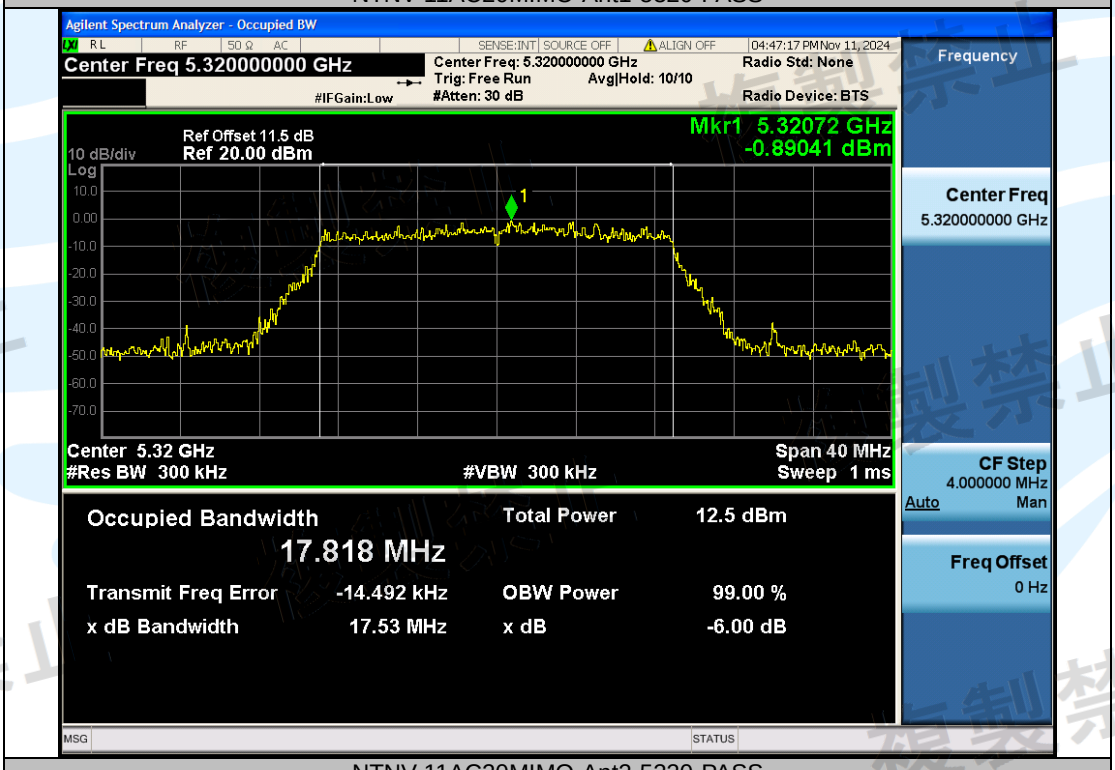
NTNV-11AC20MIMO-Ant1-5300-PASS



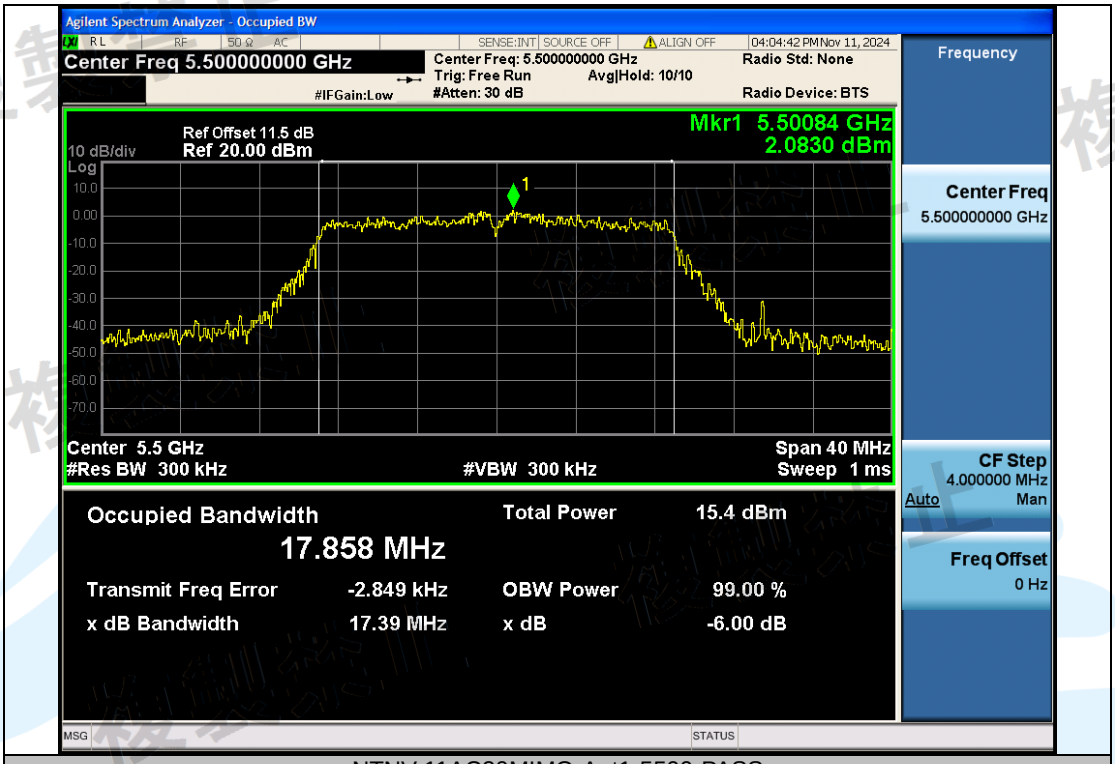
NTNV-11AC20MIMO-Ant2-5300-PASS



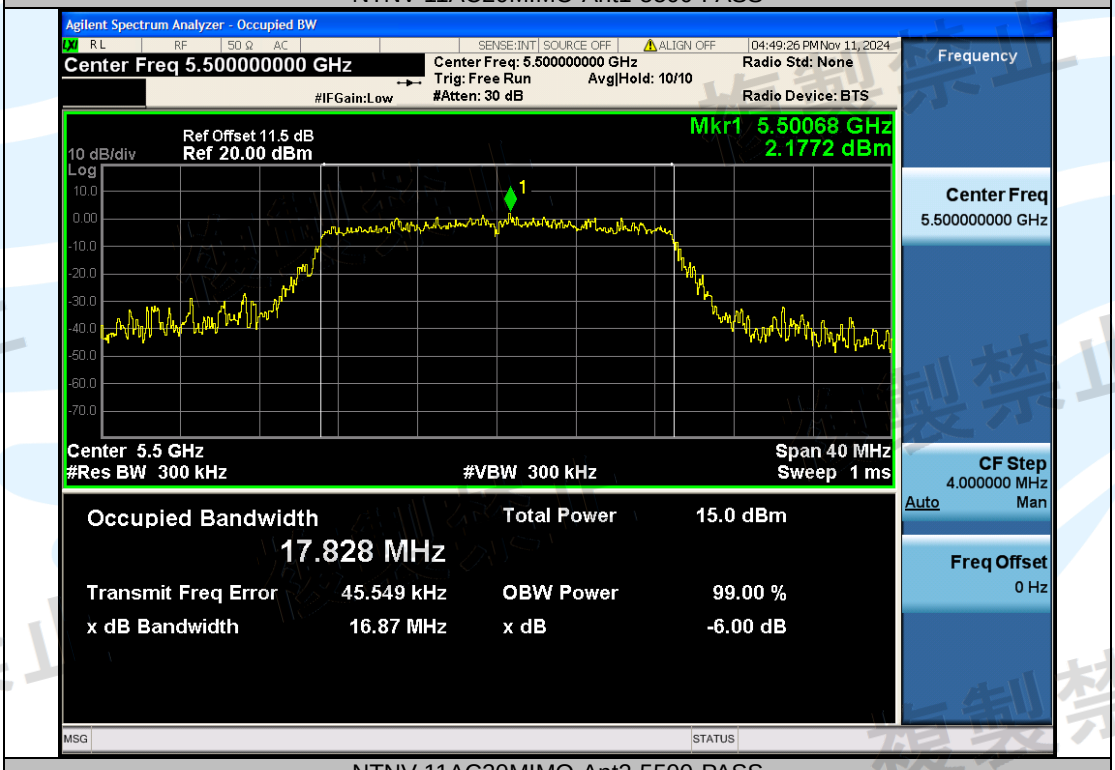
NTNV-11AC20MIMO-Ant1-5320-PASS



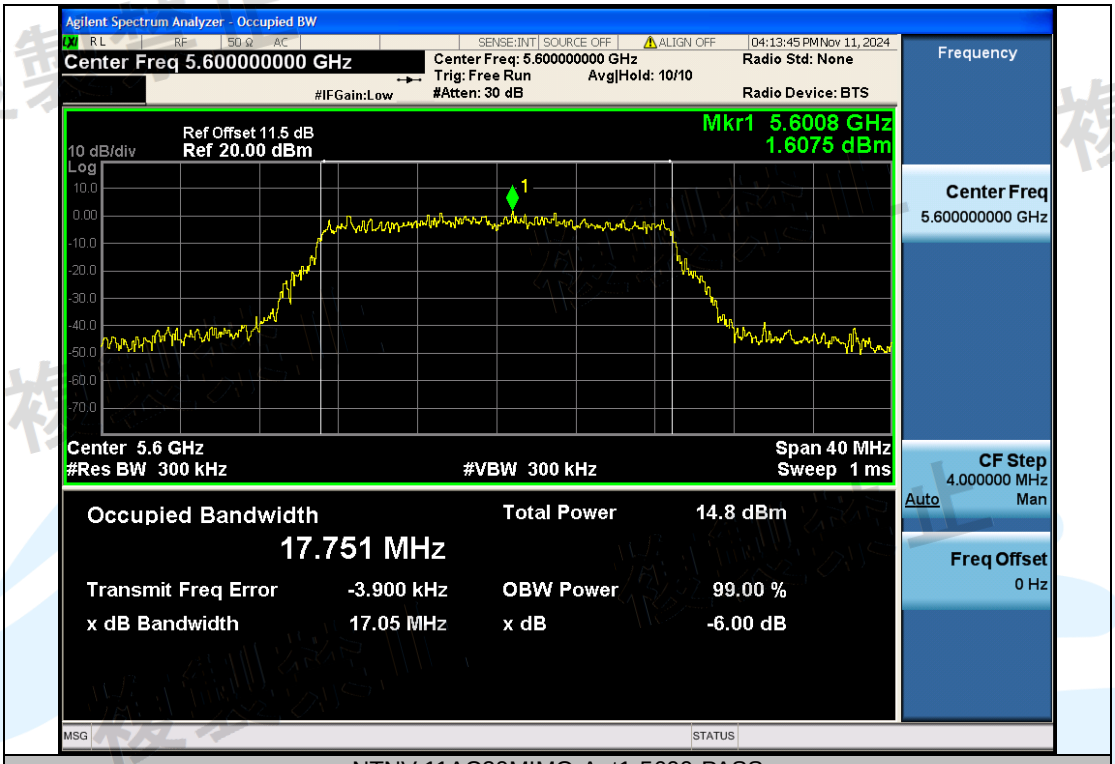
NTNV-11AC20MIMO-Ant2-5320-PASS



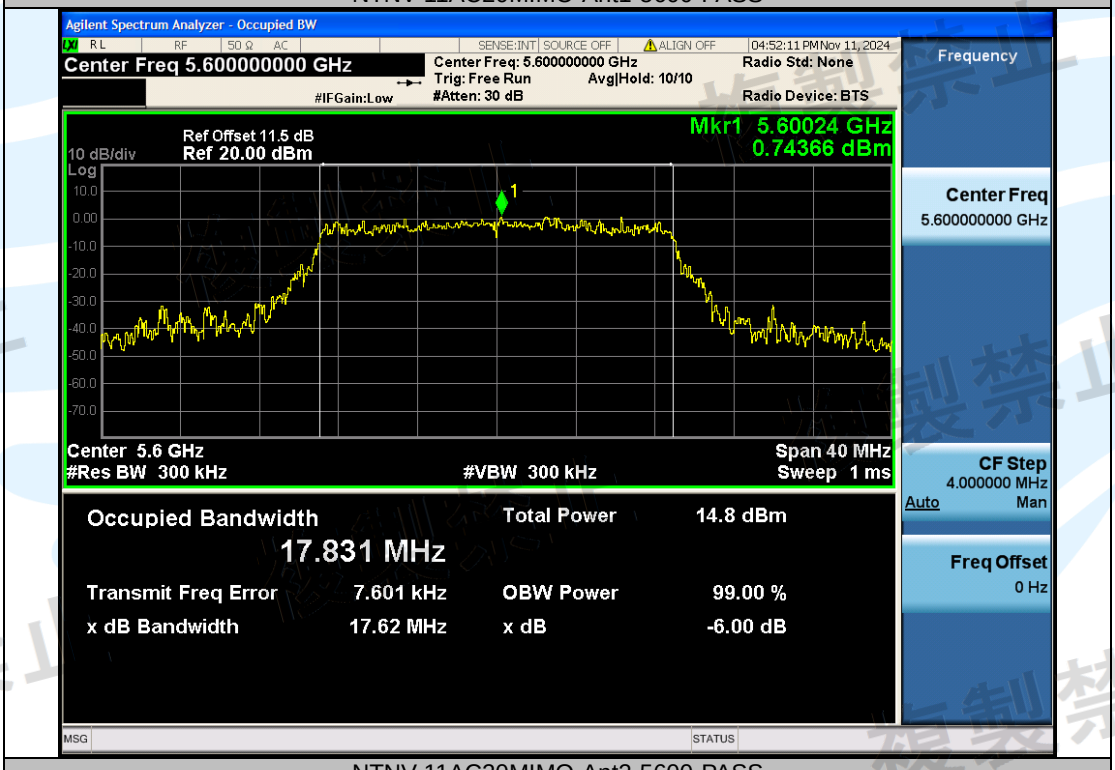
NTNV-11AC20MIMO-Ant1-5500-PASS



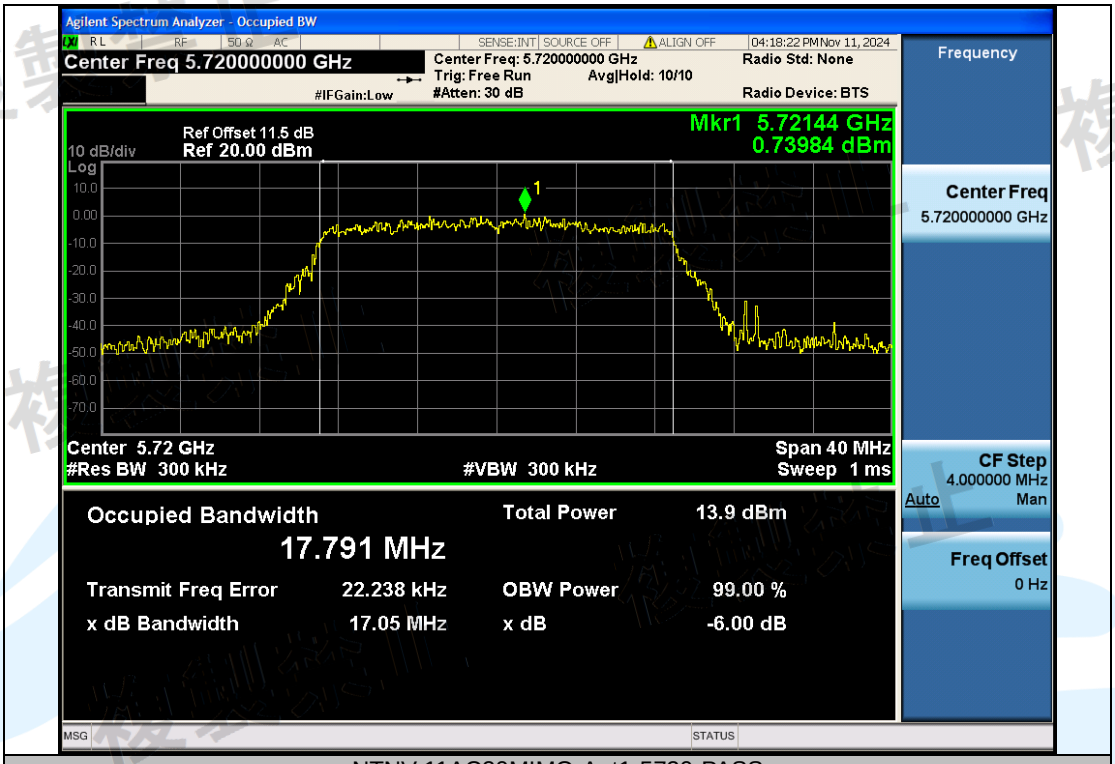
NTNV-11AC20MIMO-Ant2-5500-PASS



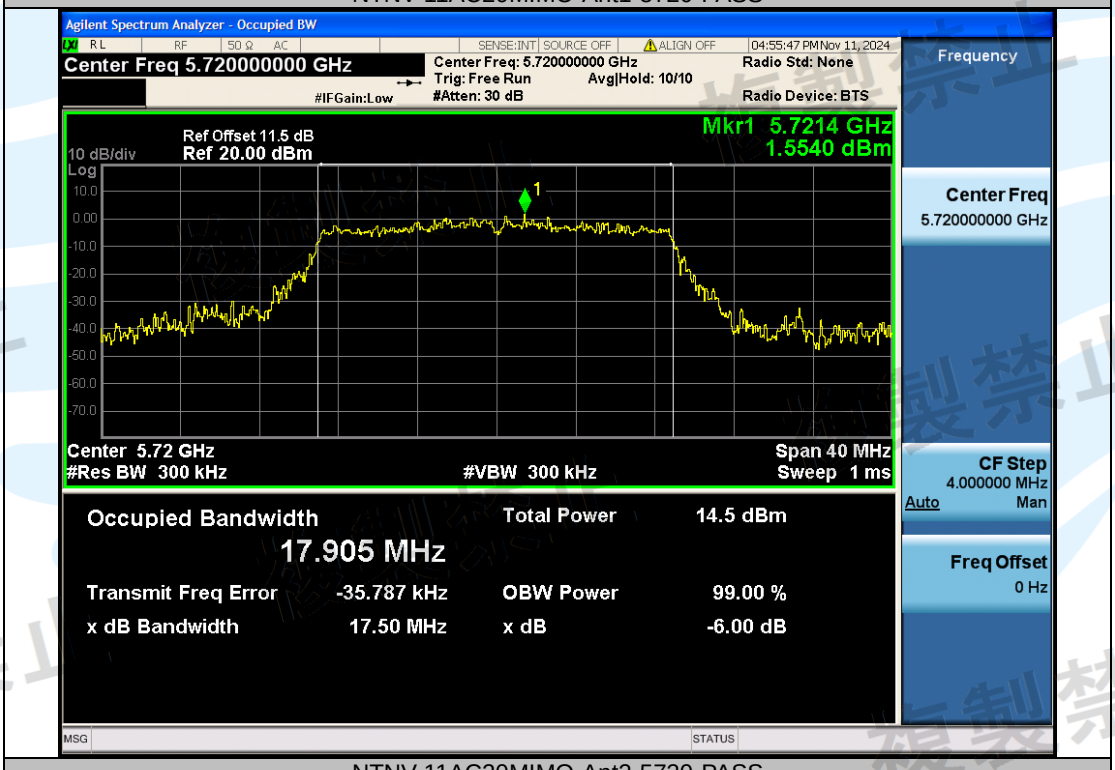
NTNV-11AC20MIMO-Ant1-5600-PASS



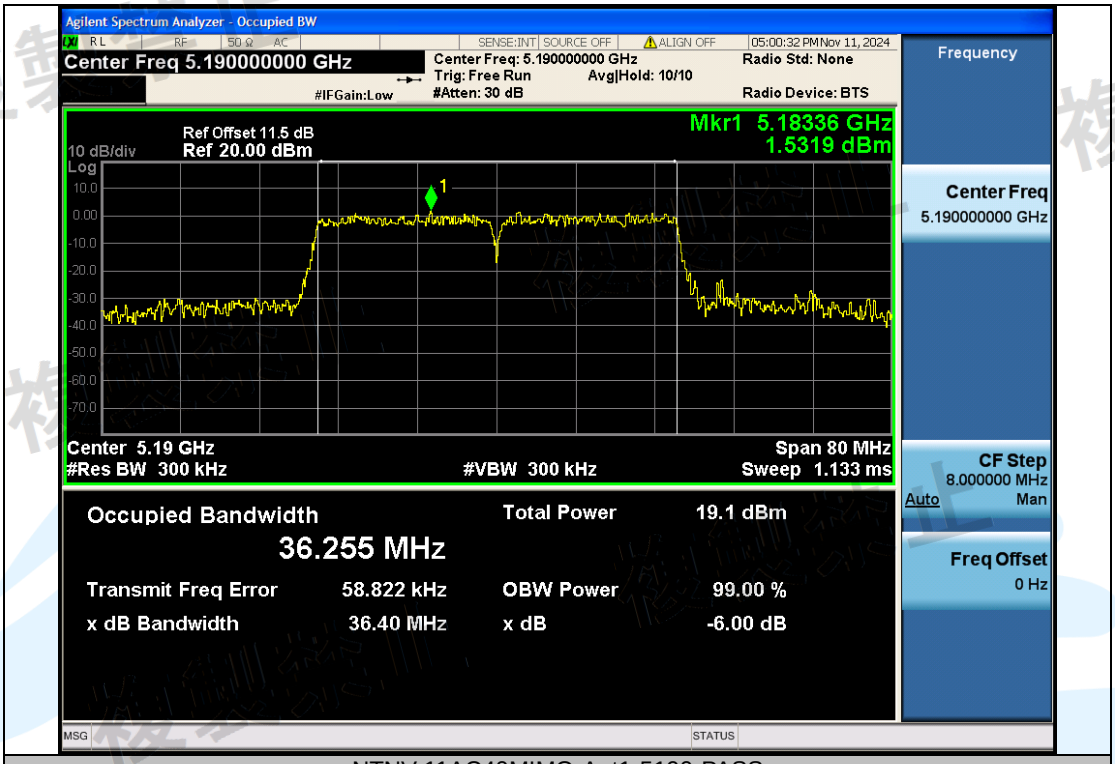
NTNV-11AC20MIMO-Ant2-5600-PASS



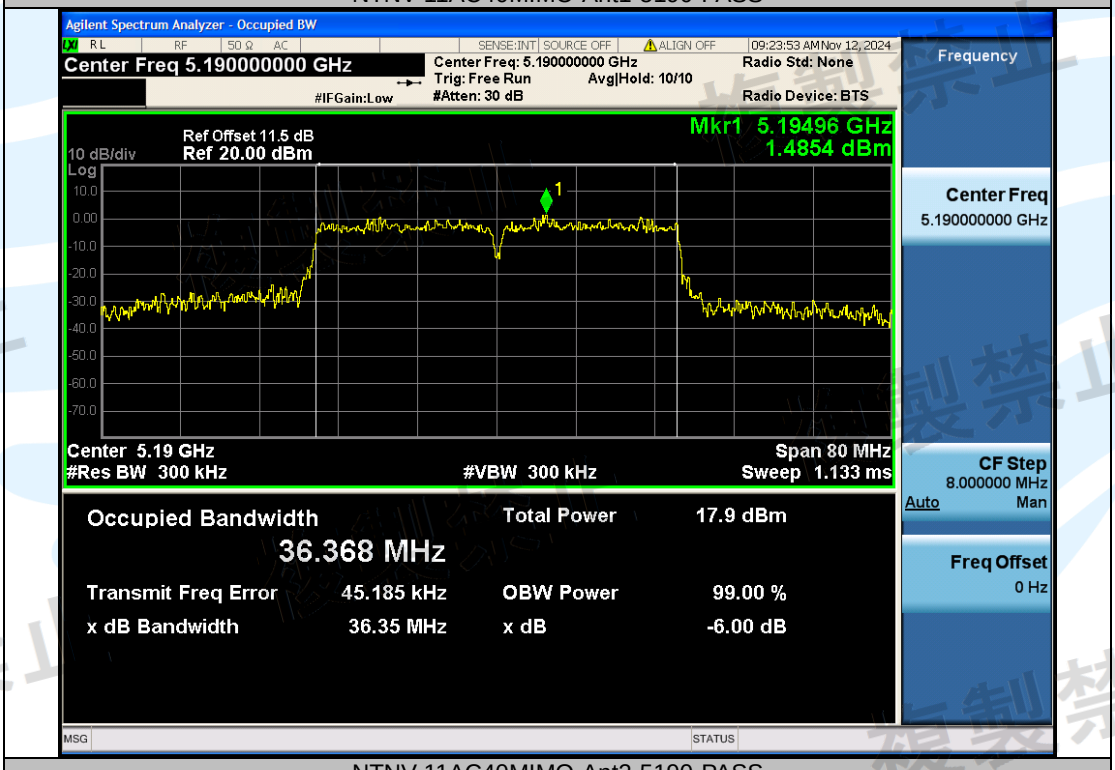
NTNV-11AC20MIMO-Ant1-5720-PASS



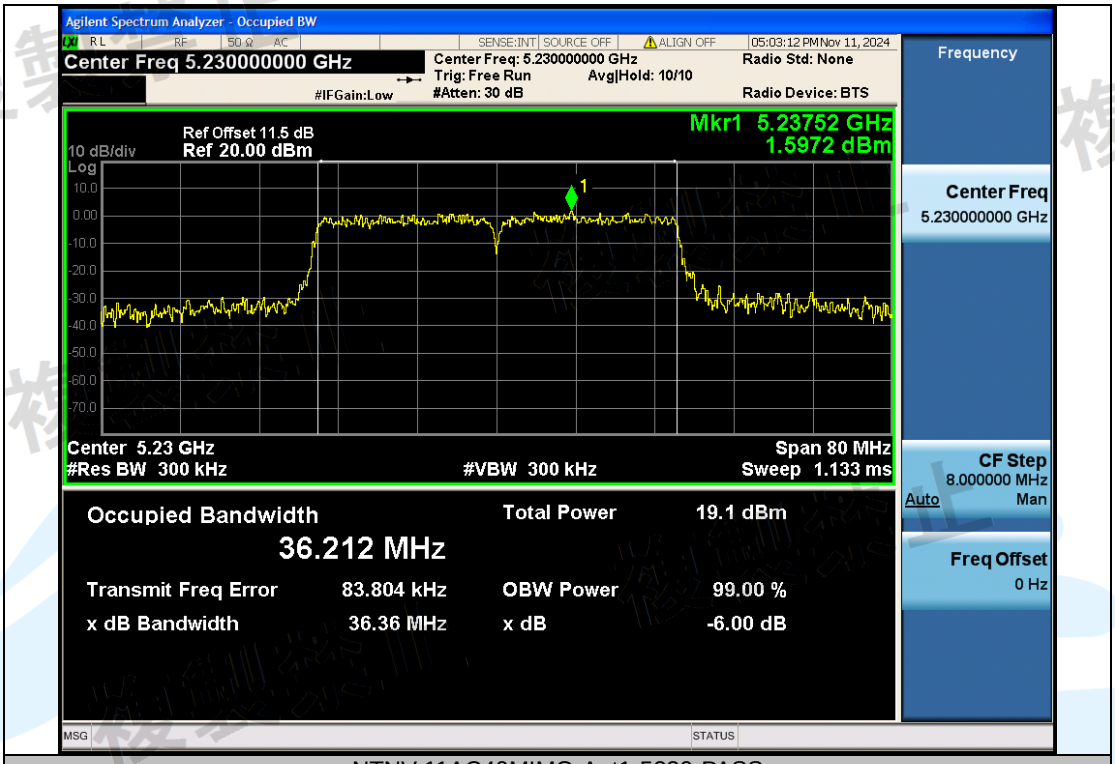
NTNV-11AC20MIMO-Ant2-5720-PASS



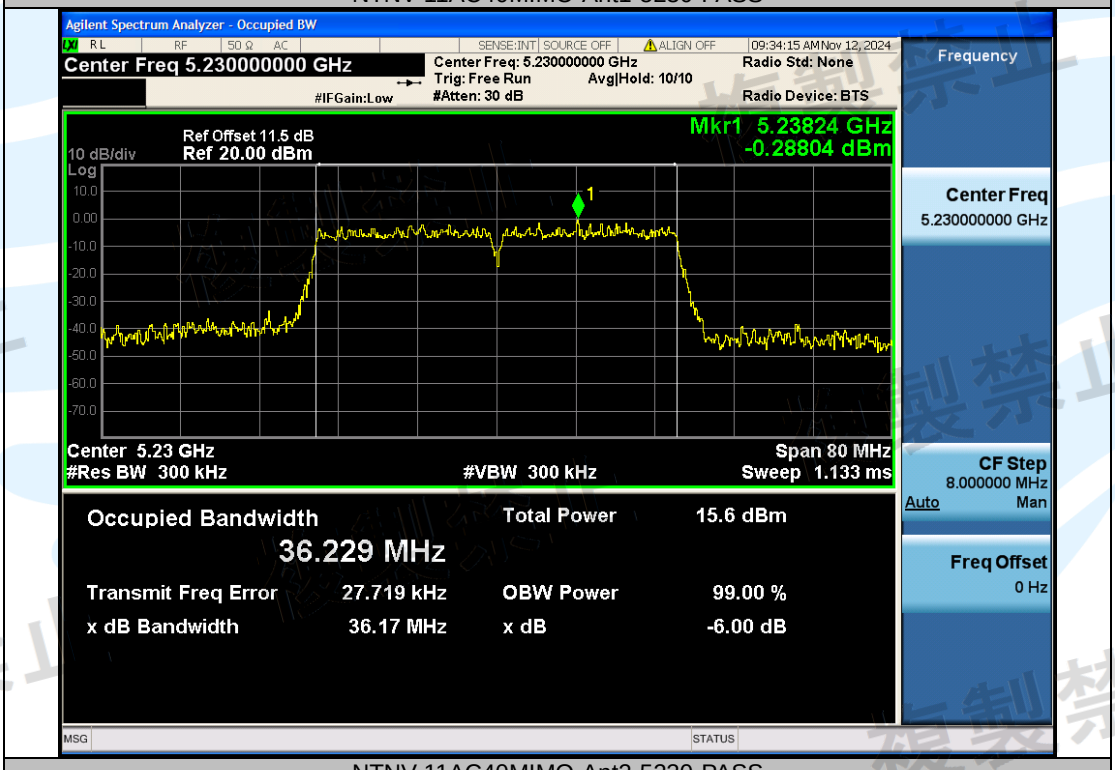
NTNV-11AC40MIMO-Ant1-5190-PASS



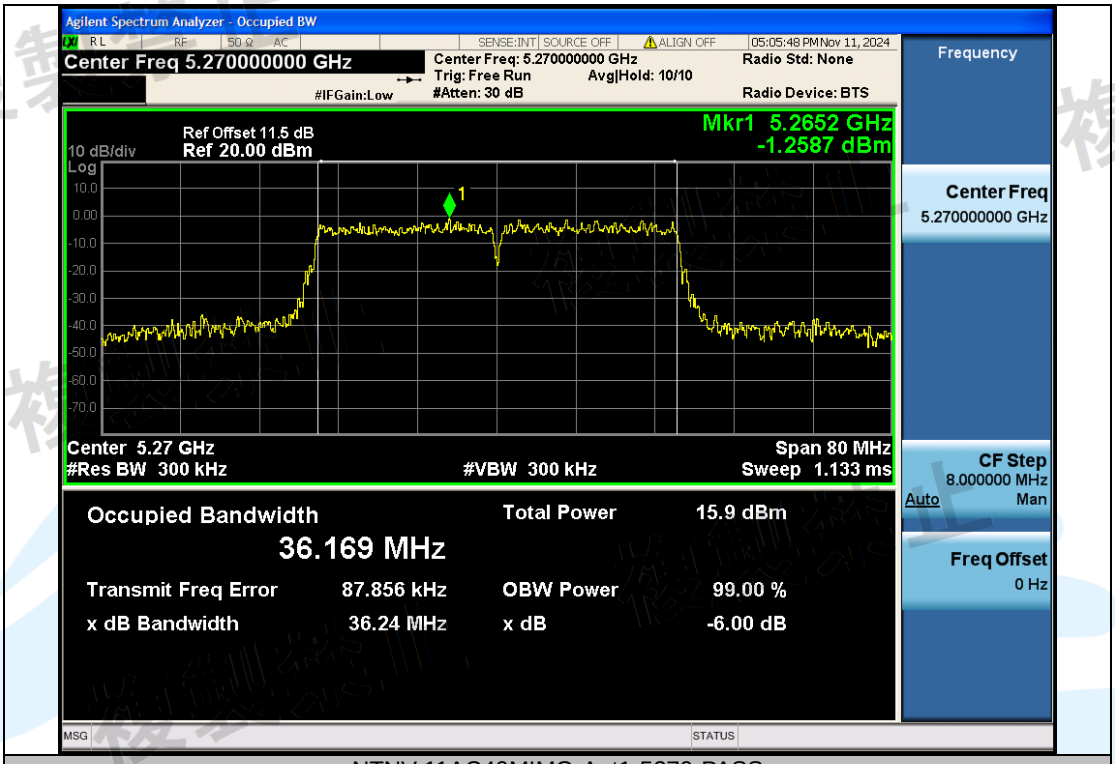
NTNV-11AC40MIMO-Ant2-5190-PASS



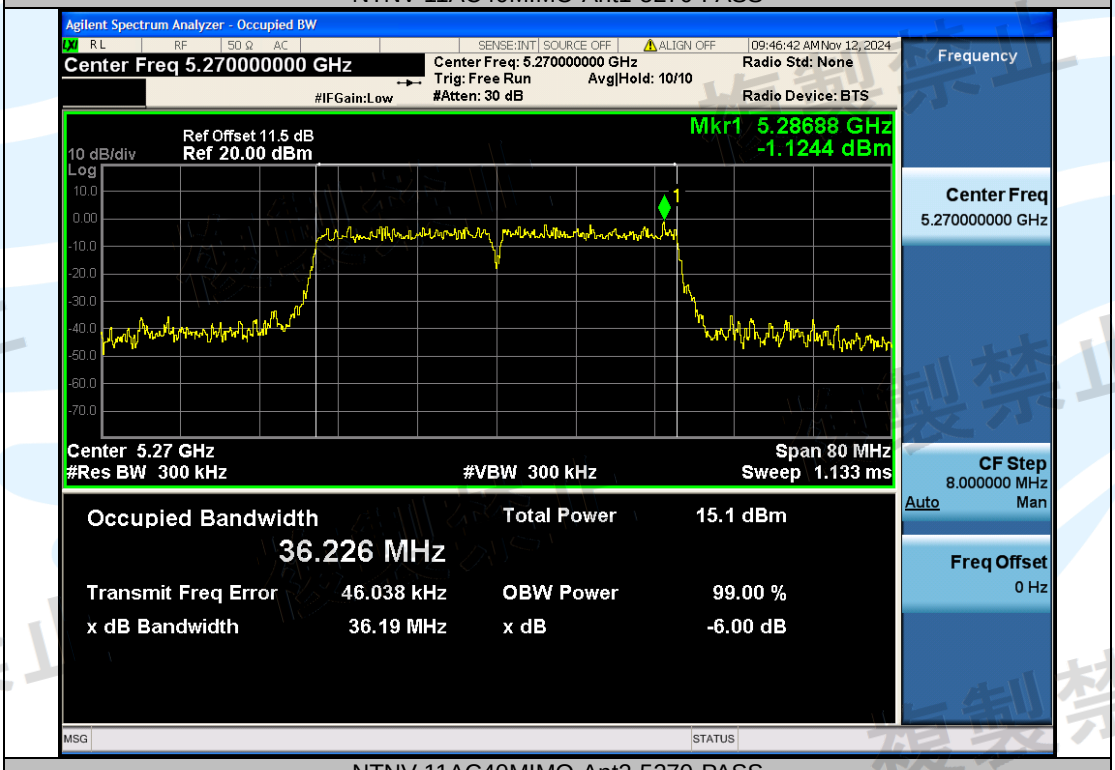
NTNV-11AC40MIMO-Ant1-5230-PASS



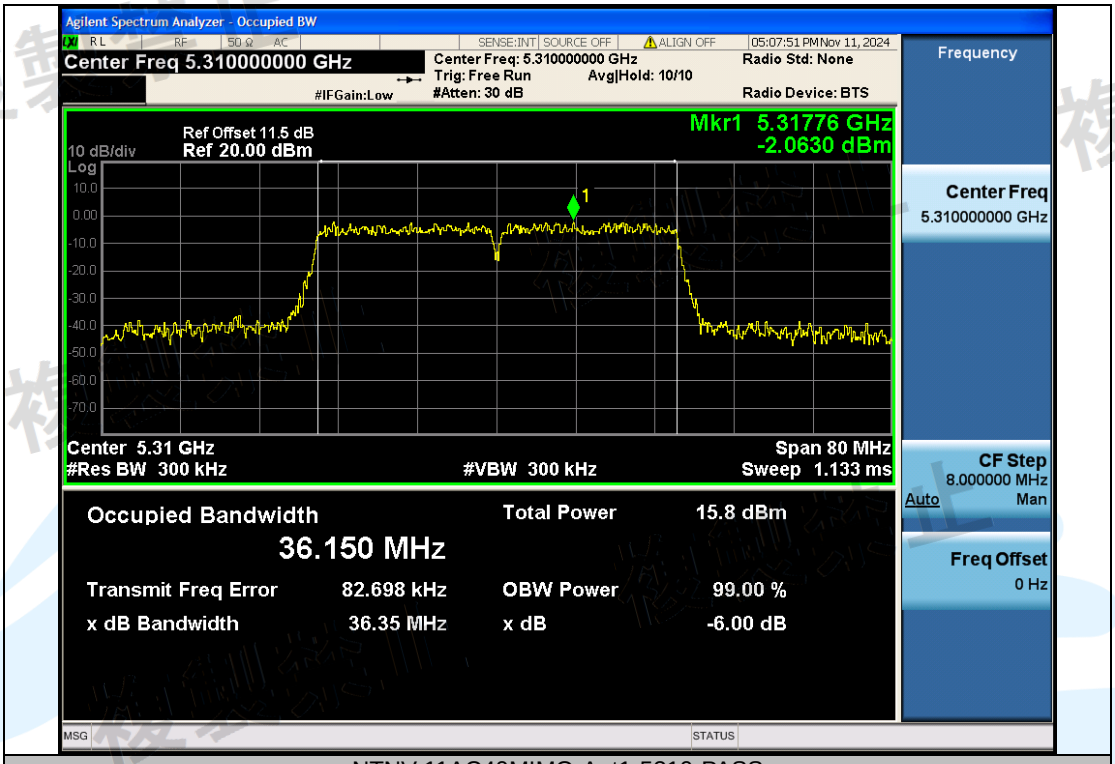
NTNV-11AC40MIMO-Ant2-5230-PASS



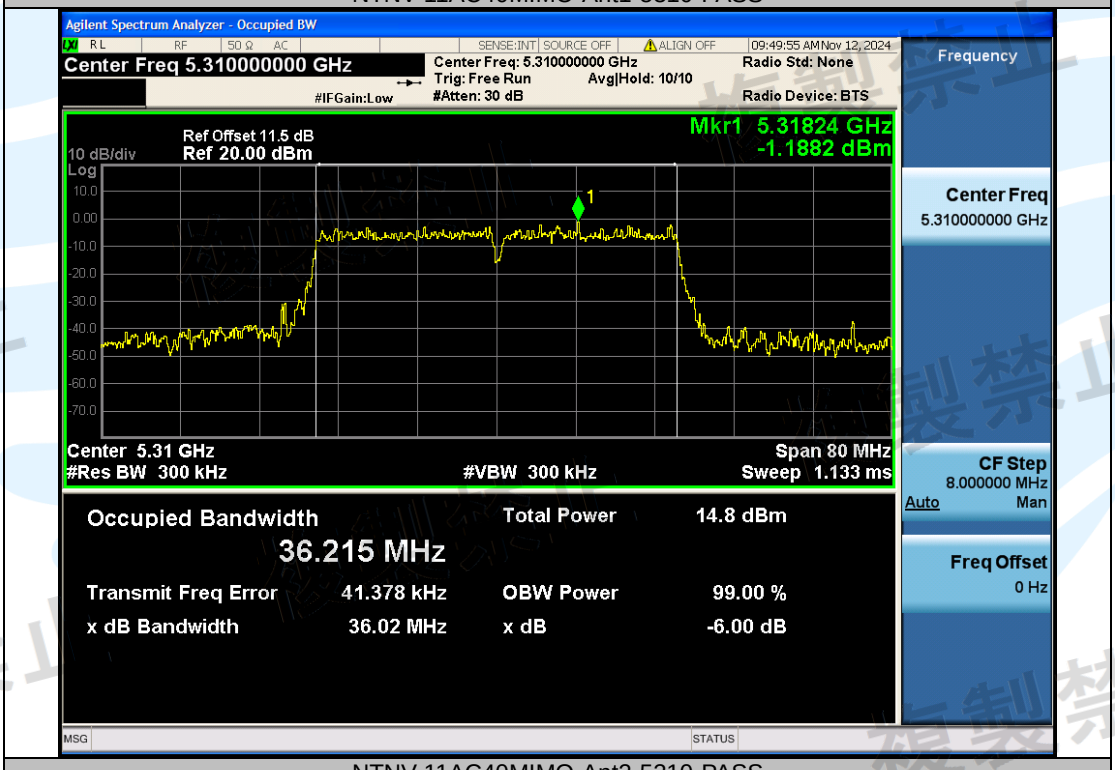
NTNV-11AC40MIMO-Ant1-5270-PASS



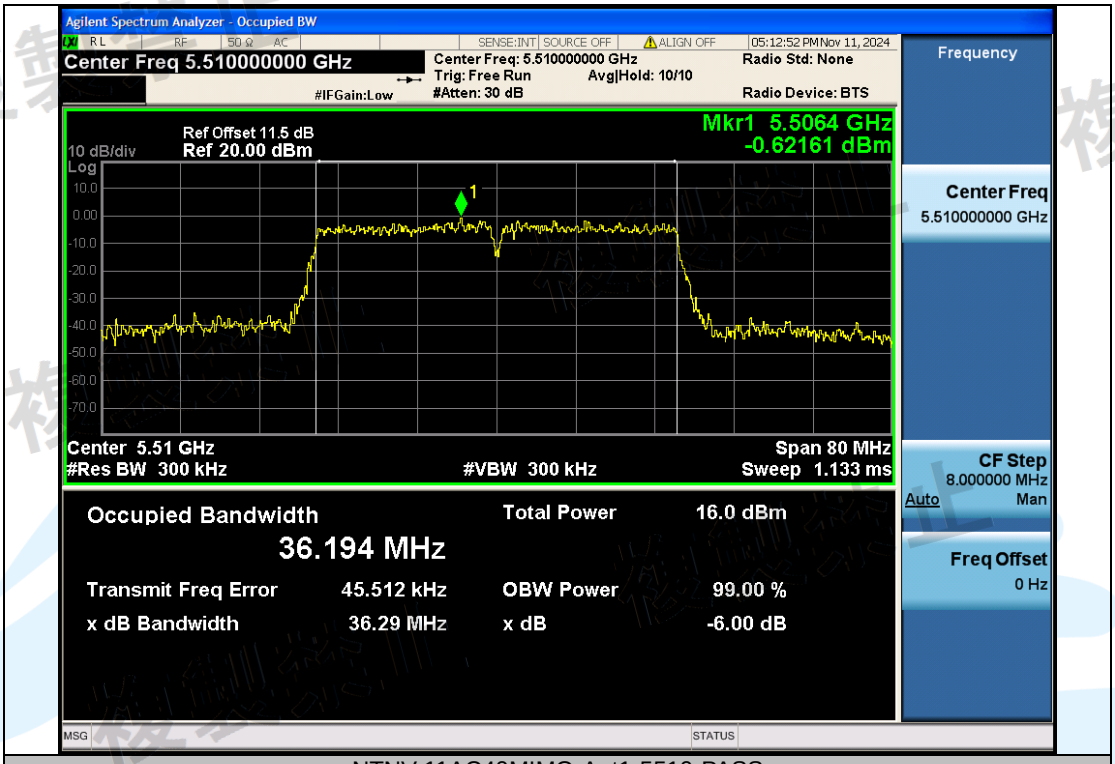
NTNV-11AC40MIMO-Ant2-5270-PASS



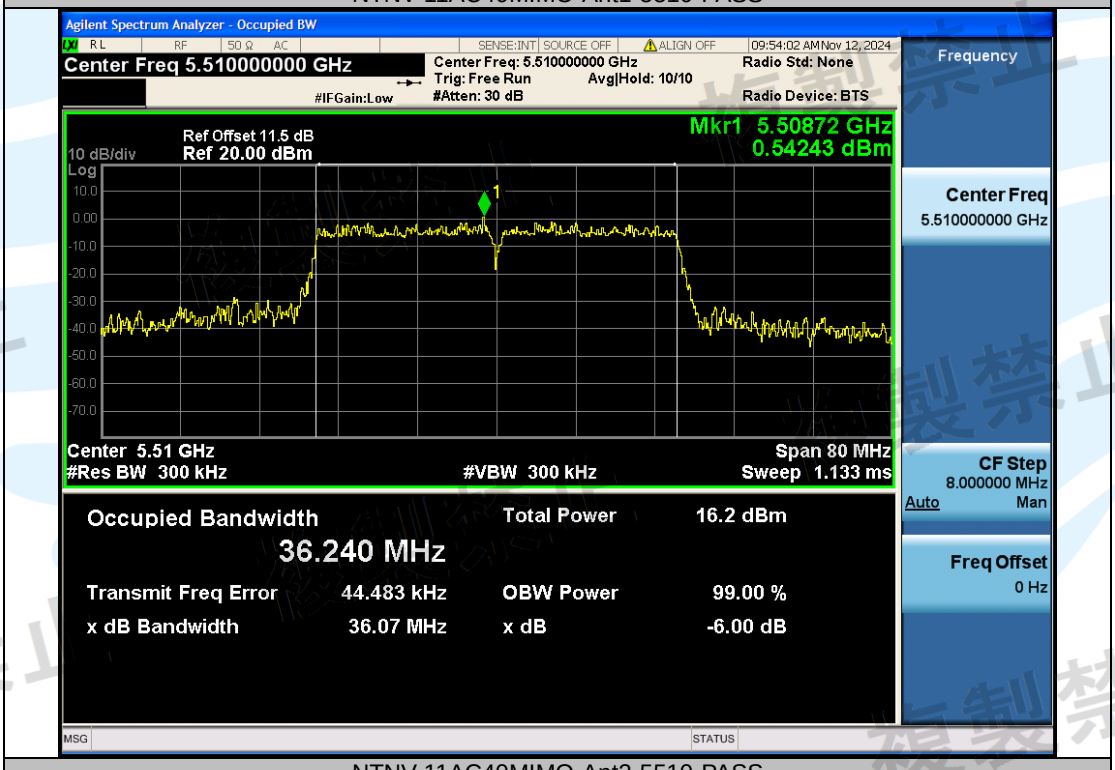
NTNV-11AC40MIMO-Ant1-5310-PASS



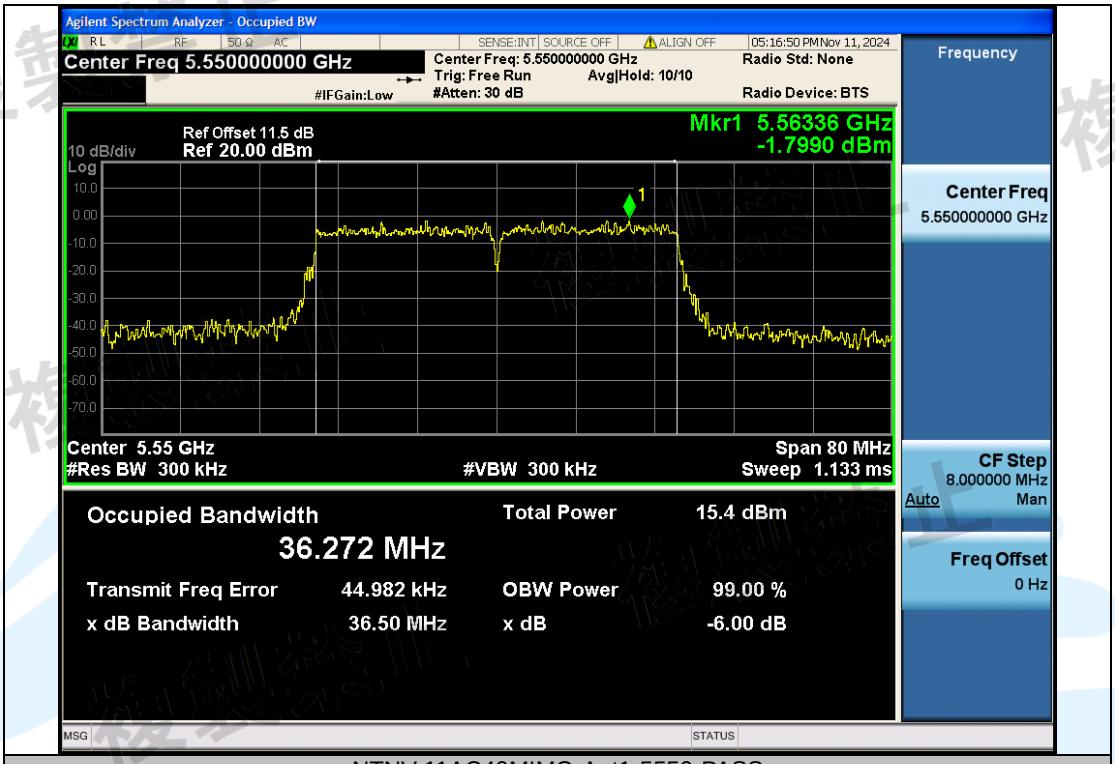
NTNV-11AC40MIMO-Ant2-5310-PASS



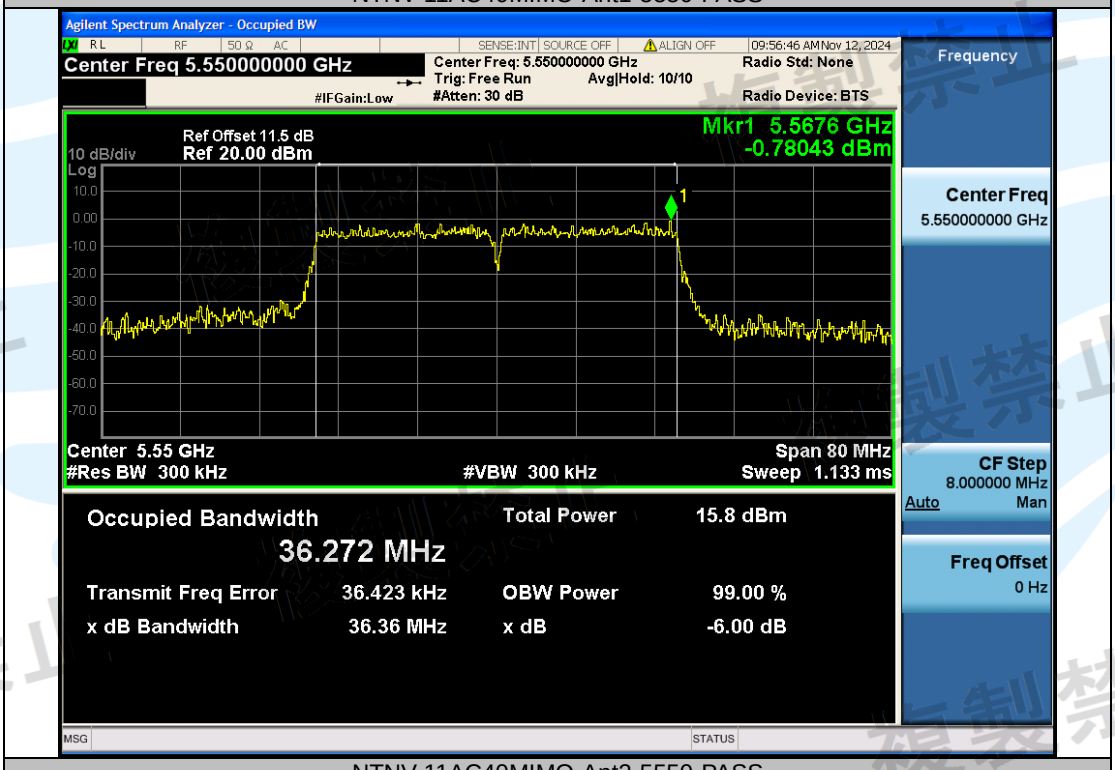
NTNV-11AC40MIMO-Ant1-5510-PASS



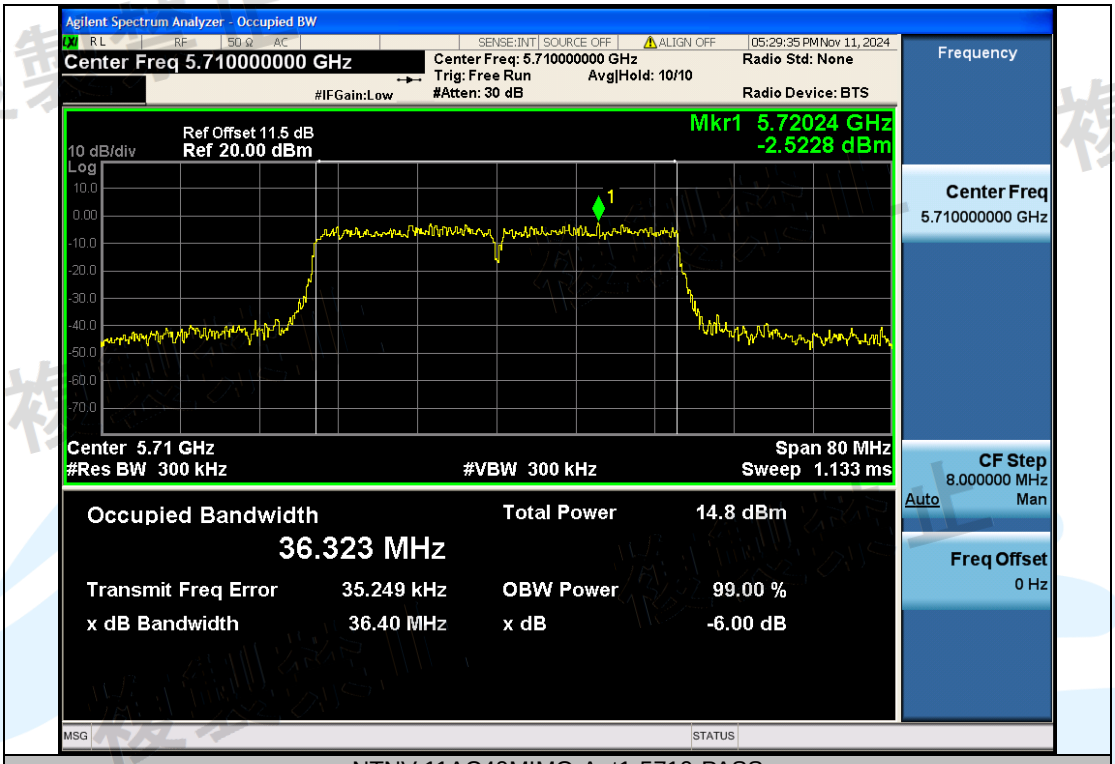
NTNV-11AC40MIMO-Ant2-5510-PASS



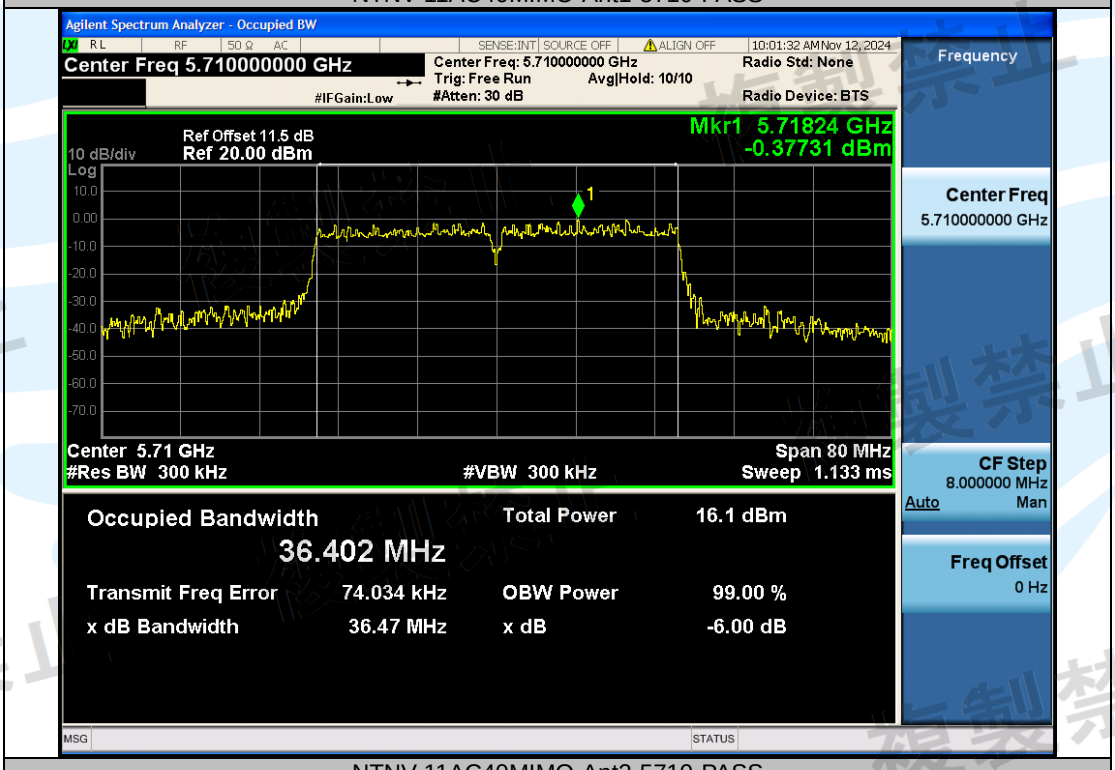
NTNV-11AC40MIMO-Ant1-5550-PASS



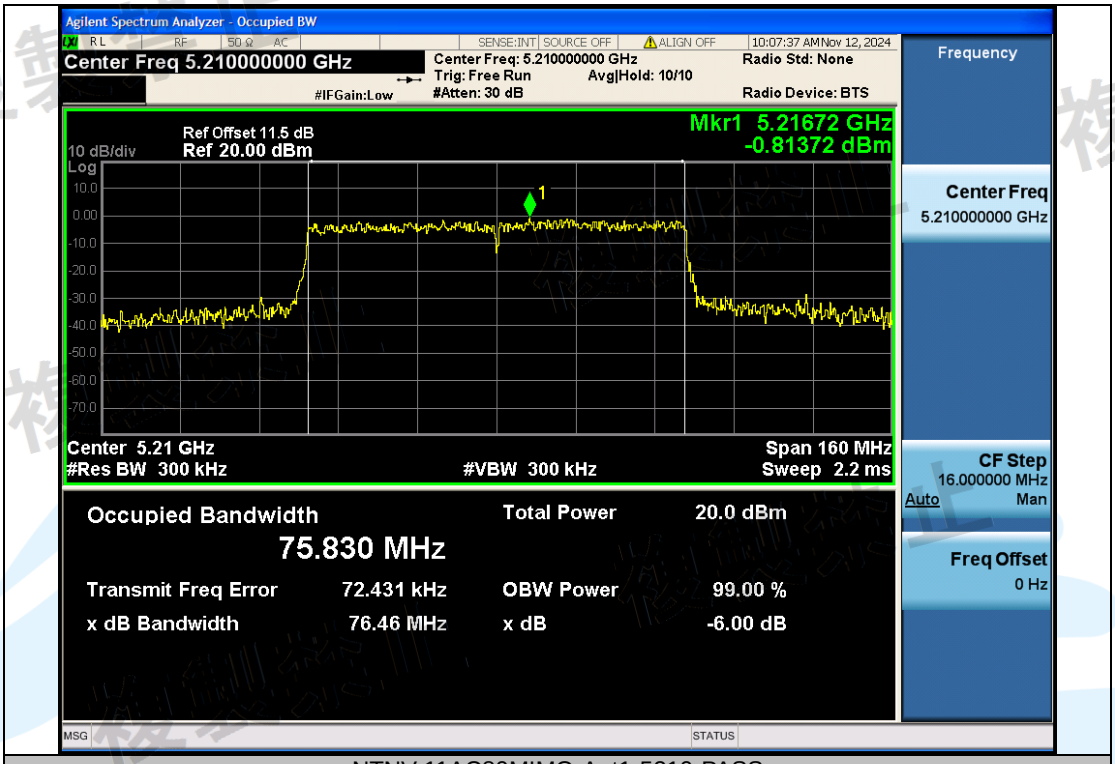
NTNV-11AC40MIMO-Ant2-5550-PASS



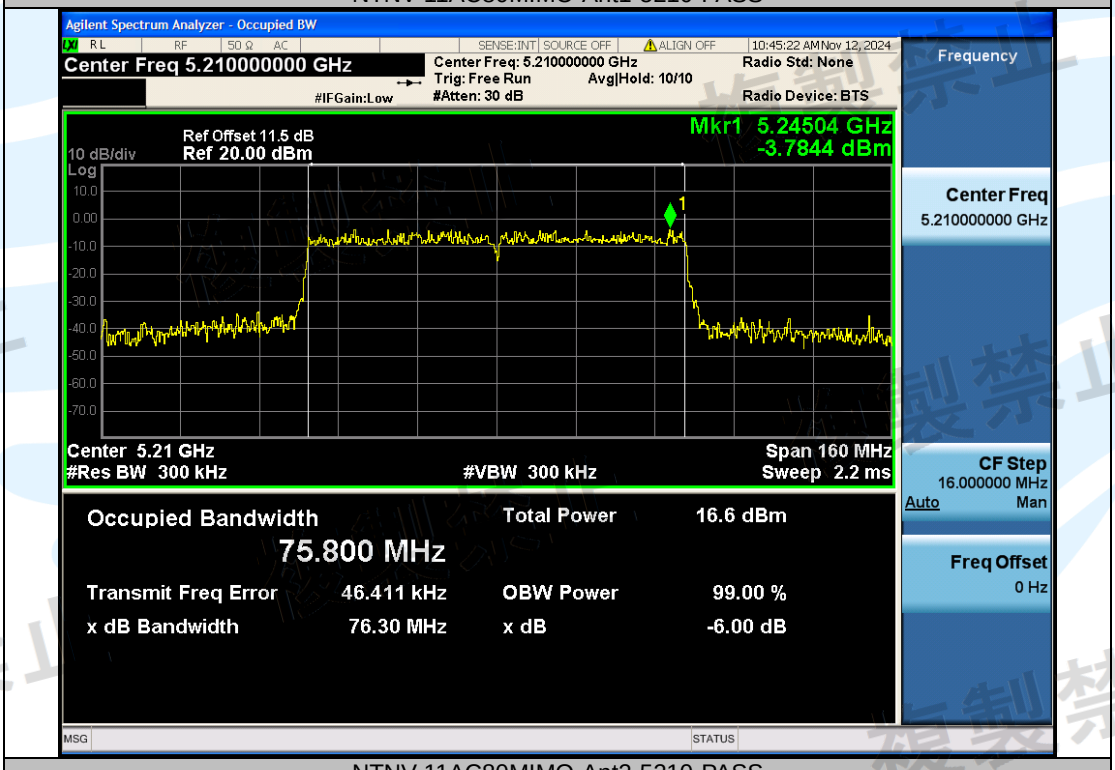
NTNV-11AC40MIMO-Ant1-5710-PASS



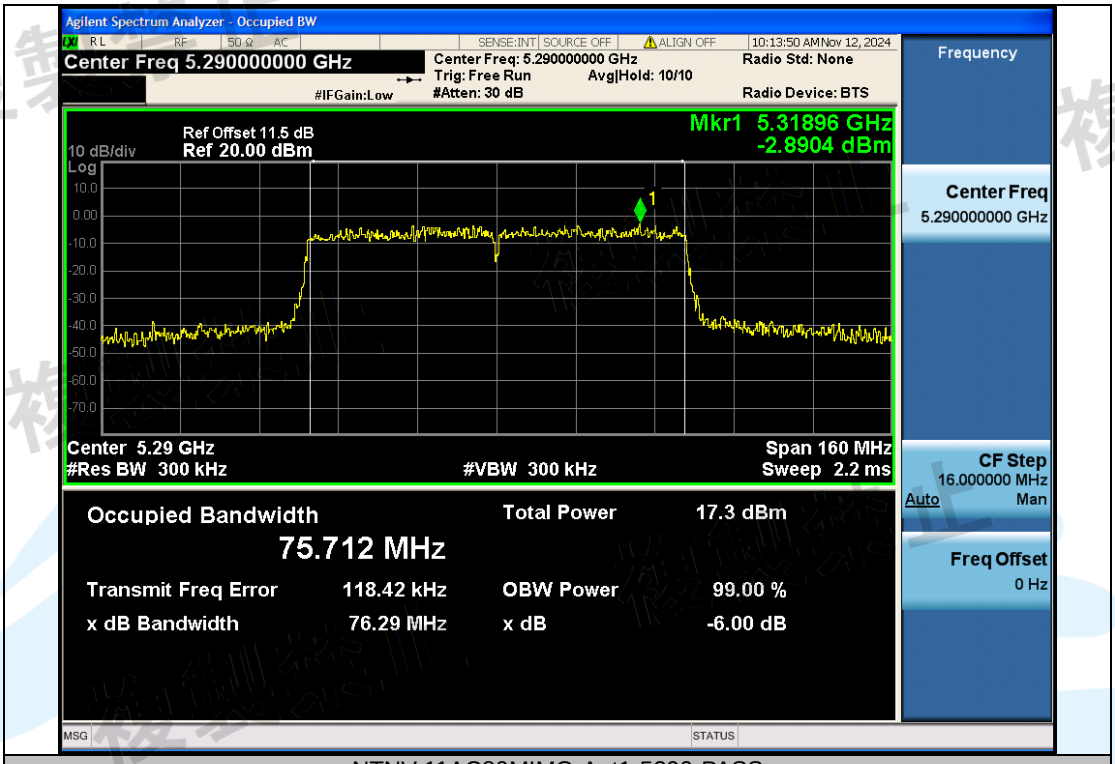
NTNV-11AC40MIMO-Ant2-5710-PASS



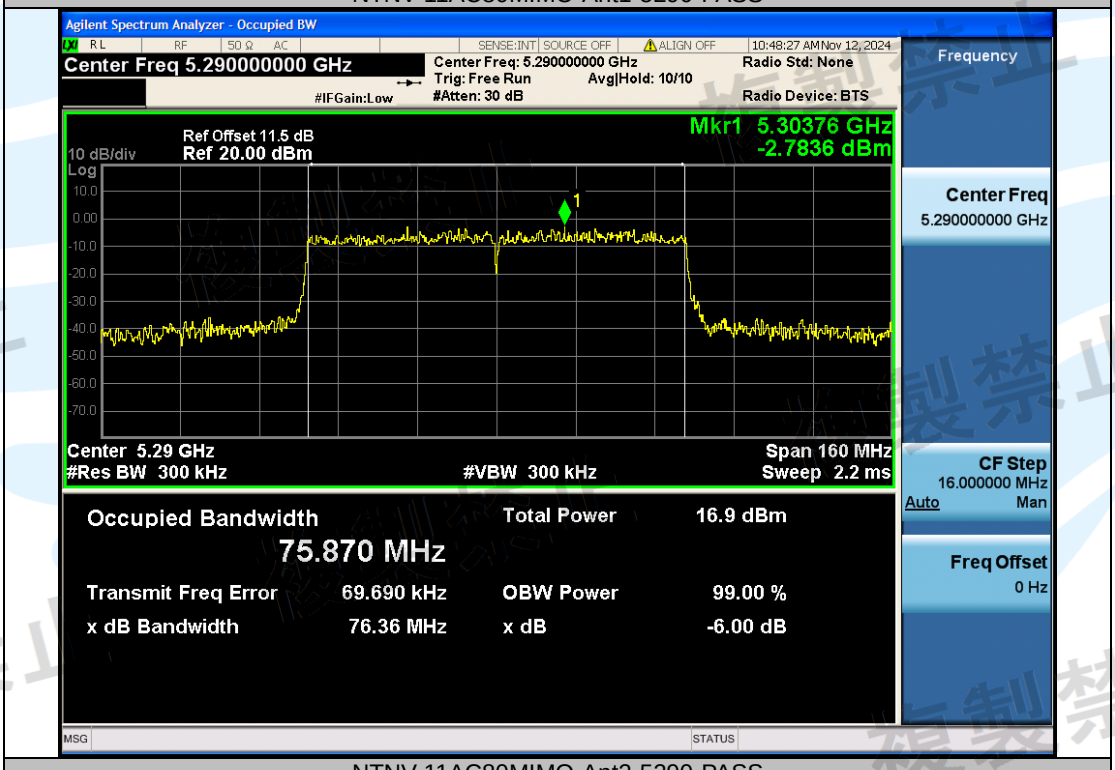
NTNV-11AC80MIMO-Ant1-5210-PASS



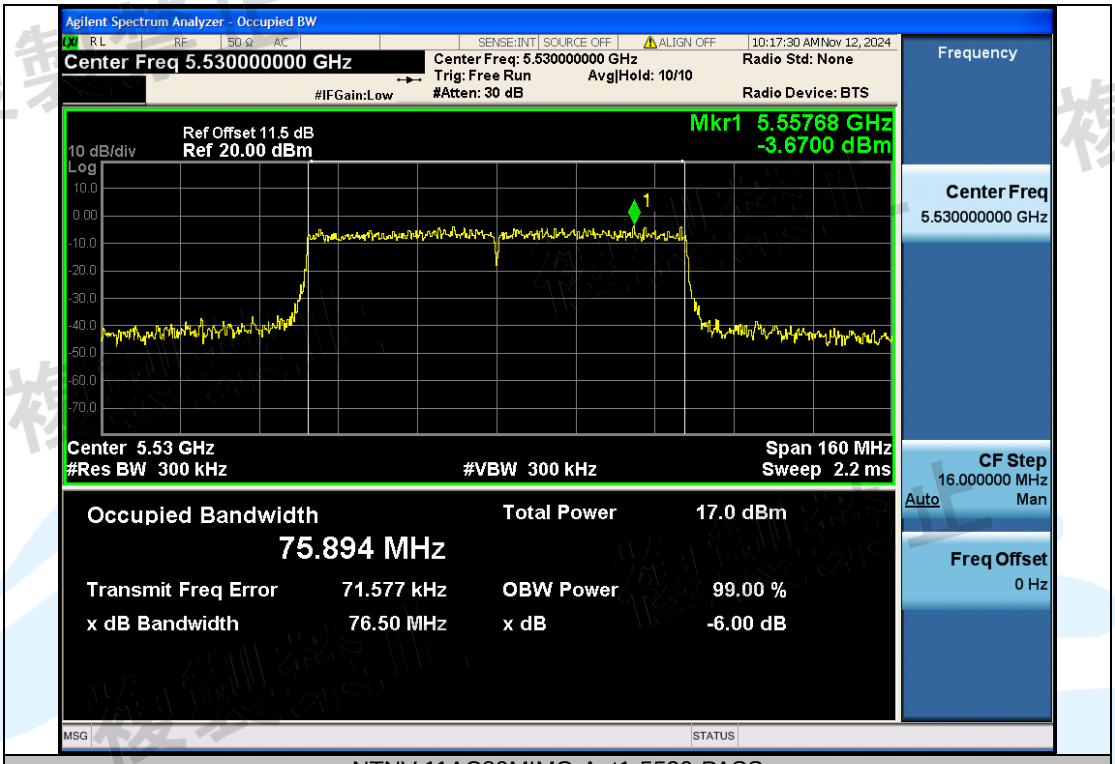
NTNV-11AC80MIMO-Ant2-5210-PASS



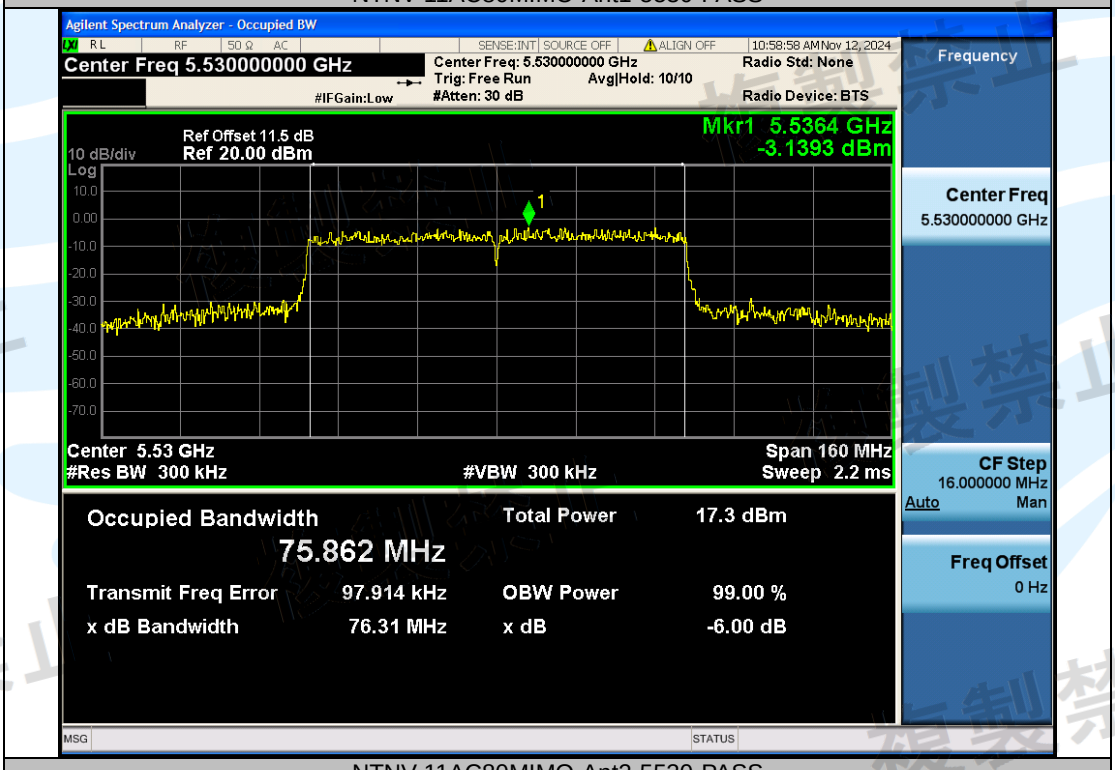
NTNV-11AC80MIMO-Ant1-5290-PASS



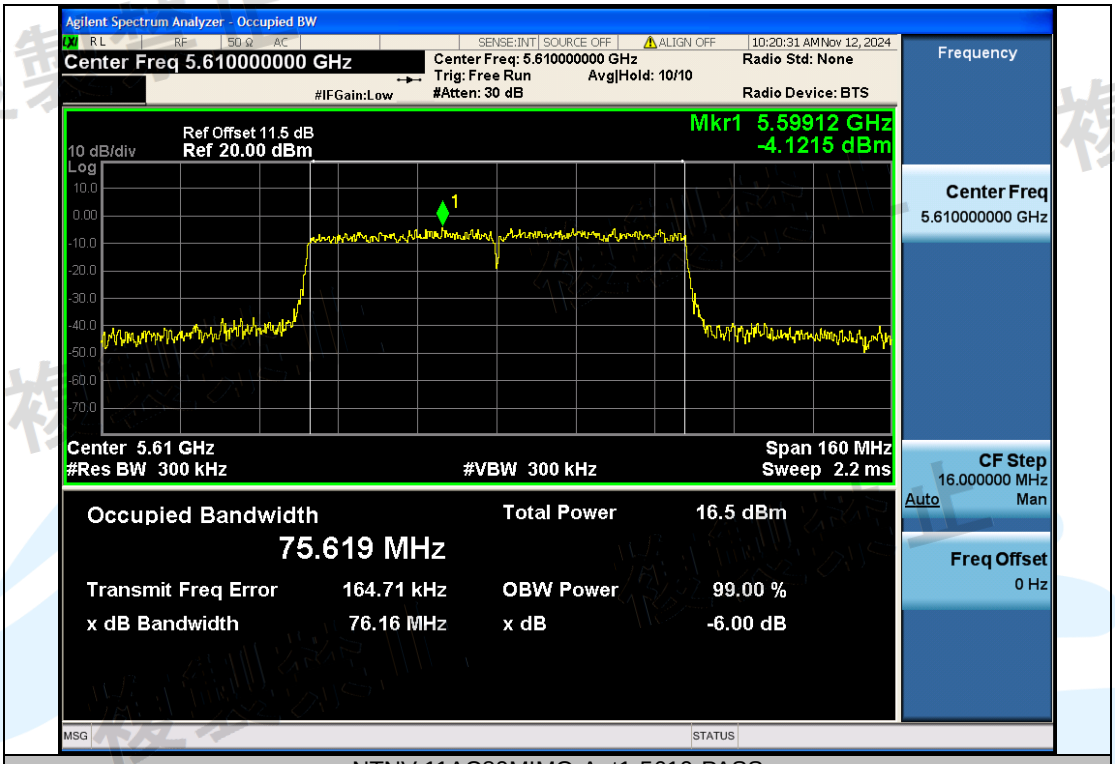
NTNV-11AC80MIMO-Ant2-5290-PASS



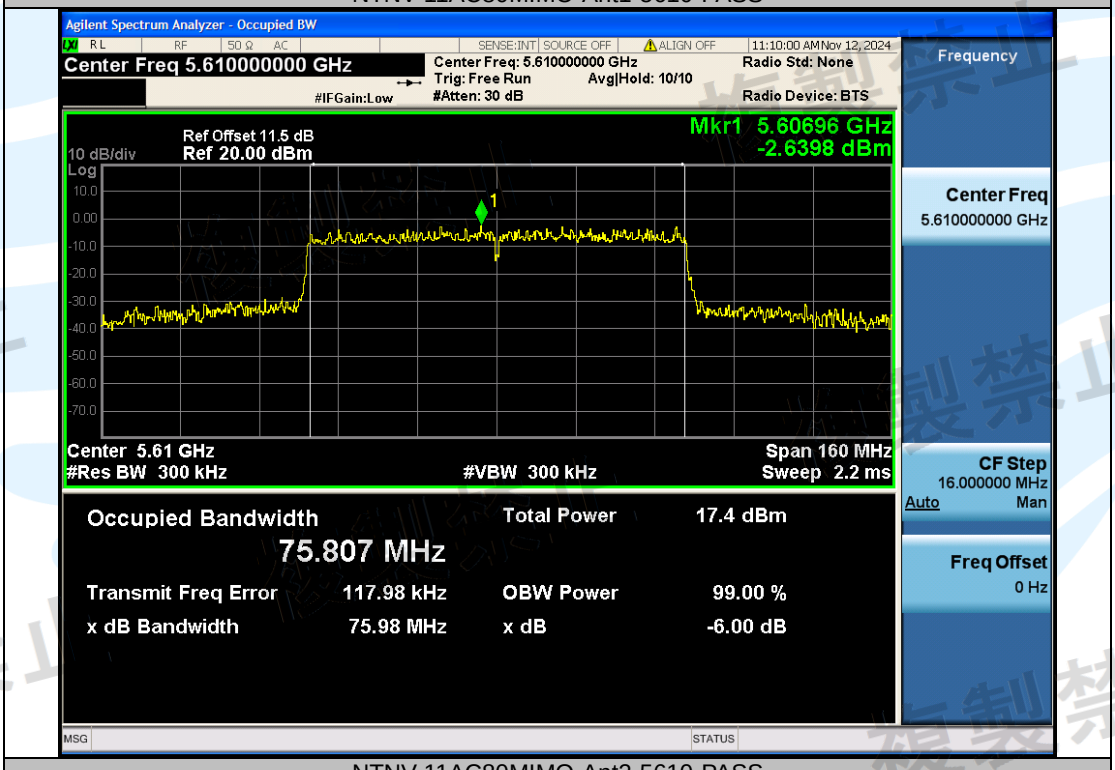
NTNV-11AC80MIMO-Ant1-5530-PASS



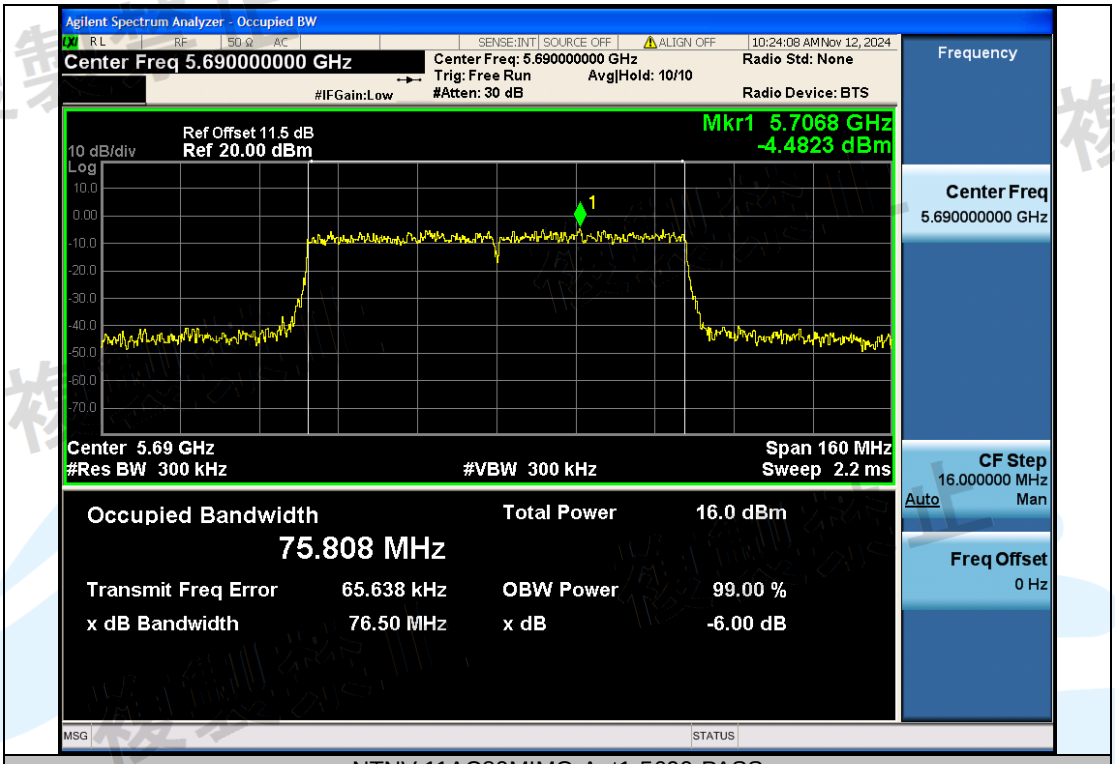
NTNV-11AC80MIMO-Ant2-5530-PASS



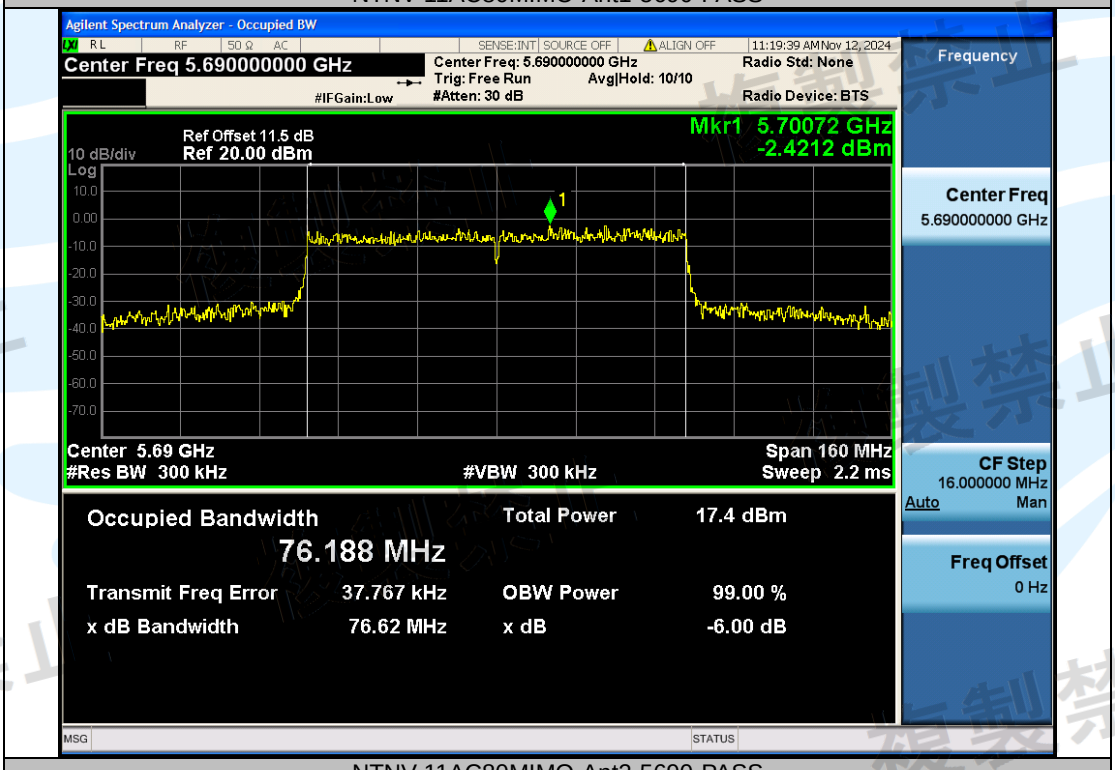
NTNV-11AC80MIMO-Ant1-5610-PASS



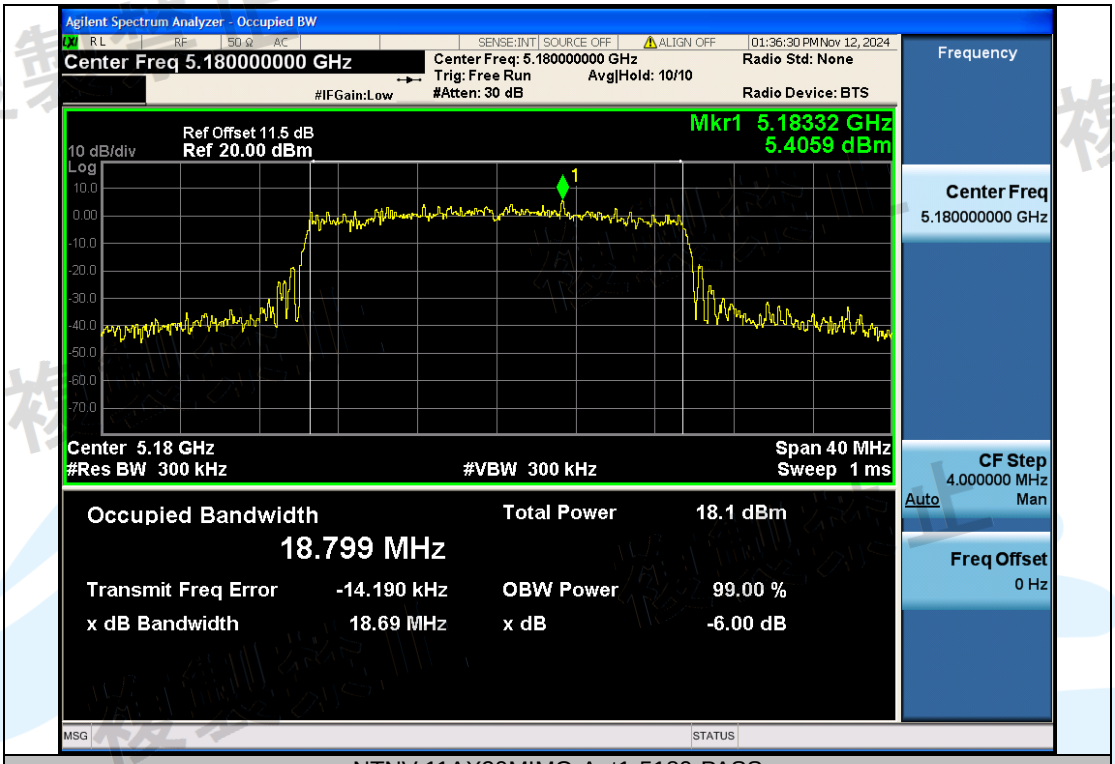
NTNV-11AC80MIMO-Ant2-5610-PASS



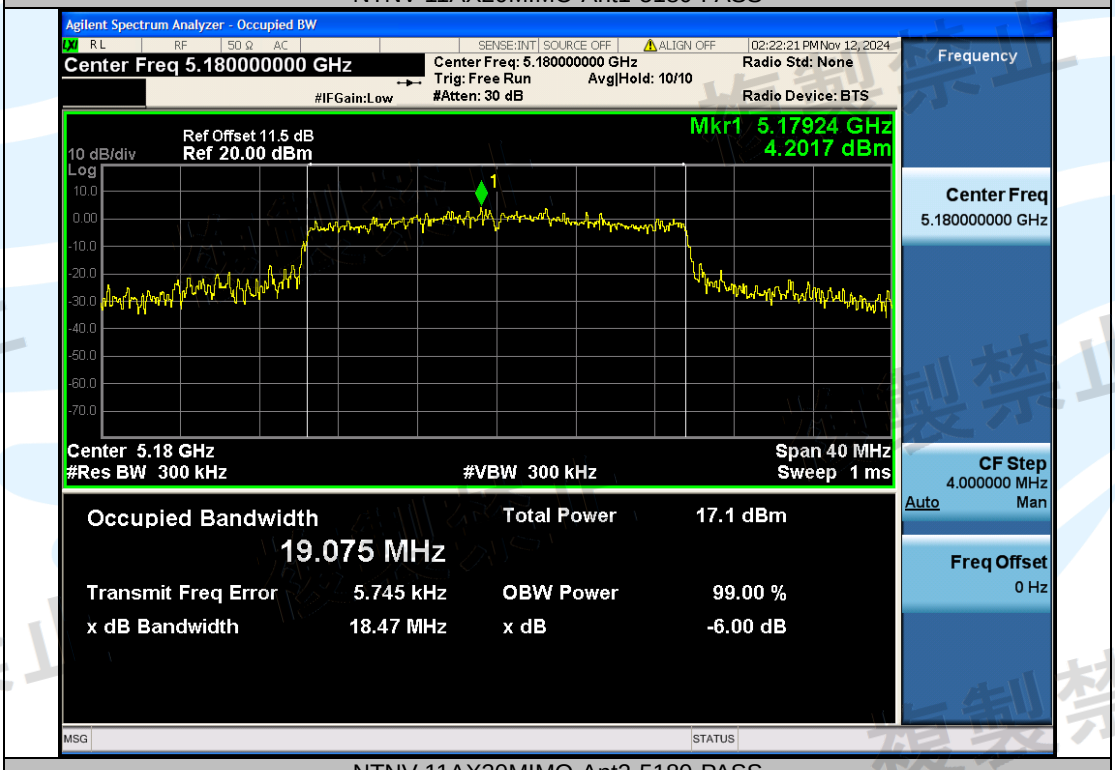
NTNV-11AC80MIMO-Ant1-5690-PASS



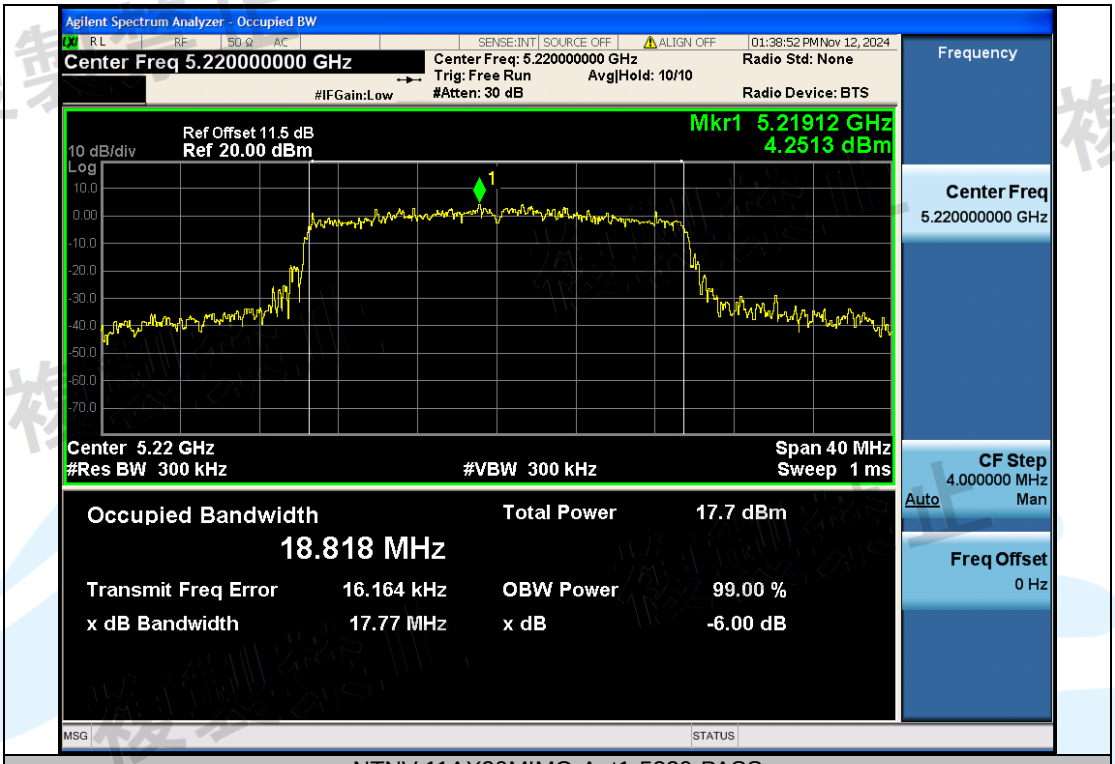
NTNV-11AC80MIMO-Ant2-5690-PASS



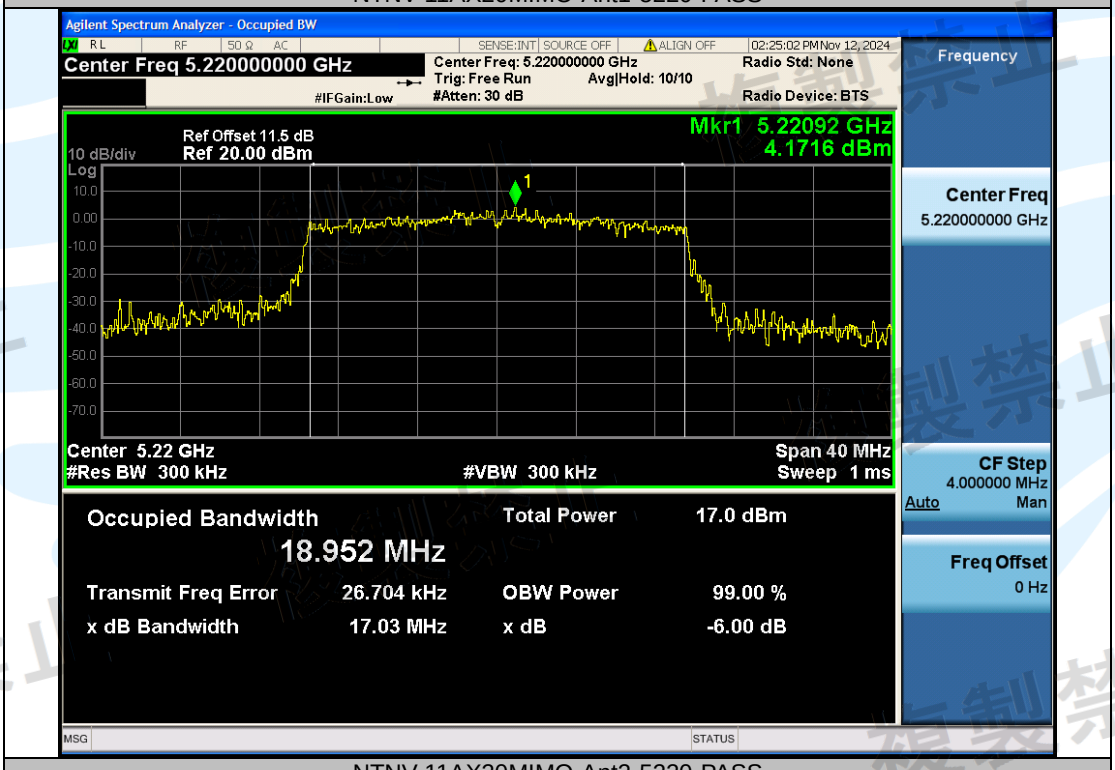
NTNV-11AX20MIMO-Ant1-5180-PASS



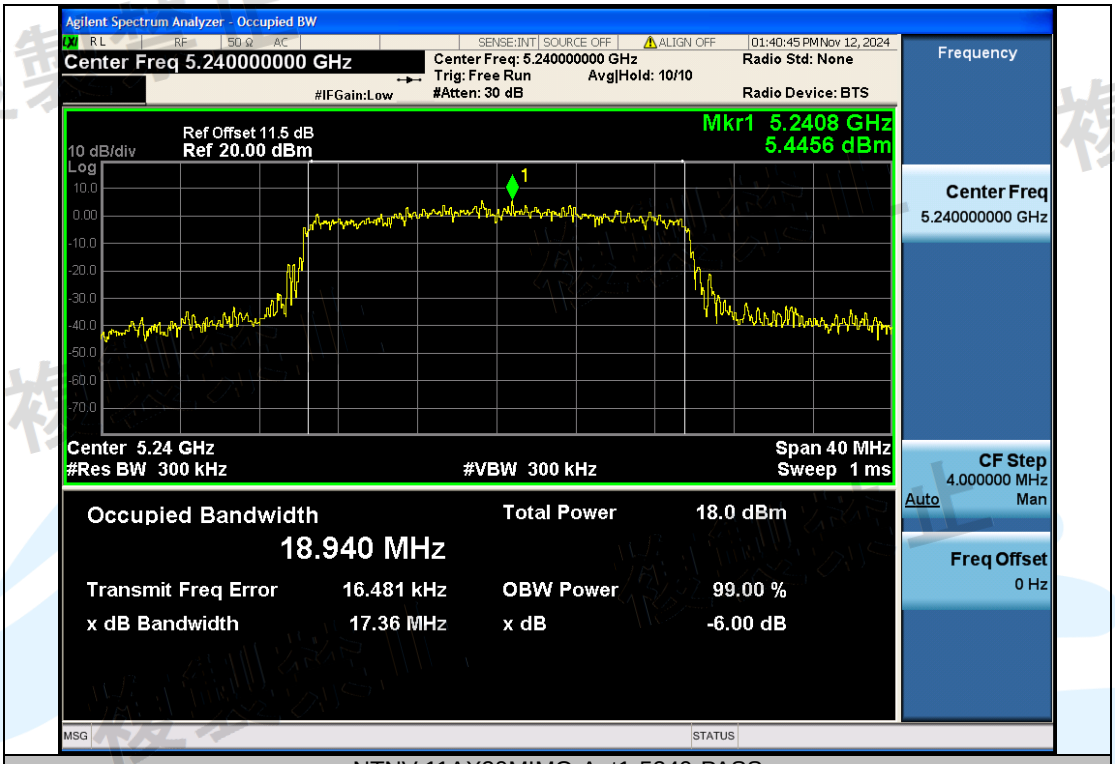
NTNV-11AX20MIMO-Ant2-5180-PASS



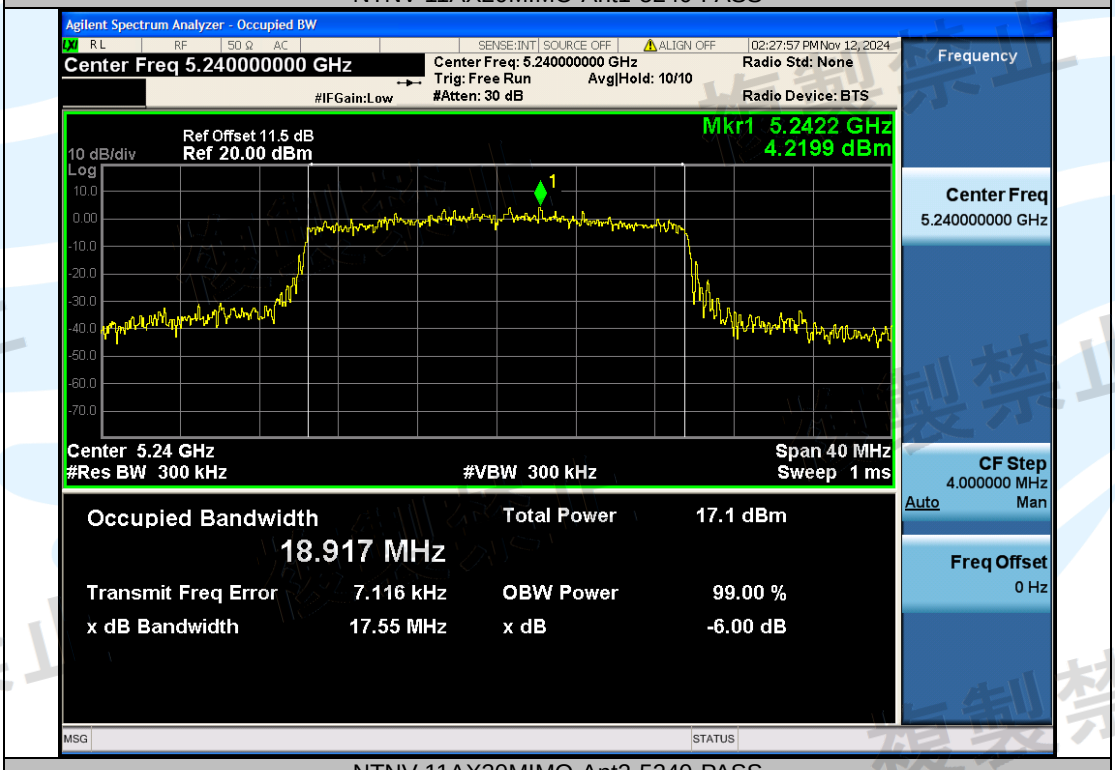
NTNV-11AX20MIMO-Ant1-5220-PASS



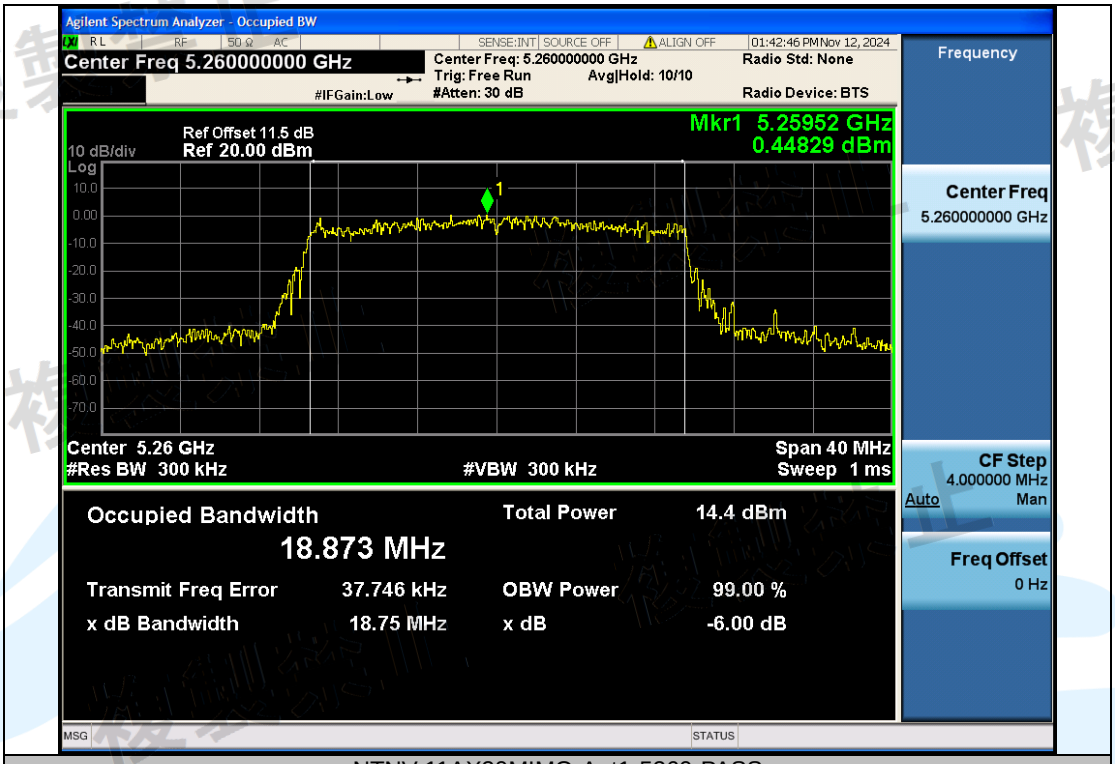
NTNV-11AX20MIMO-Ant2-5220-PASS



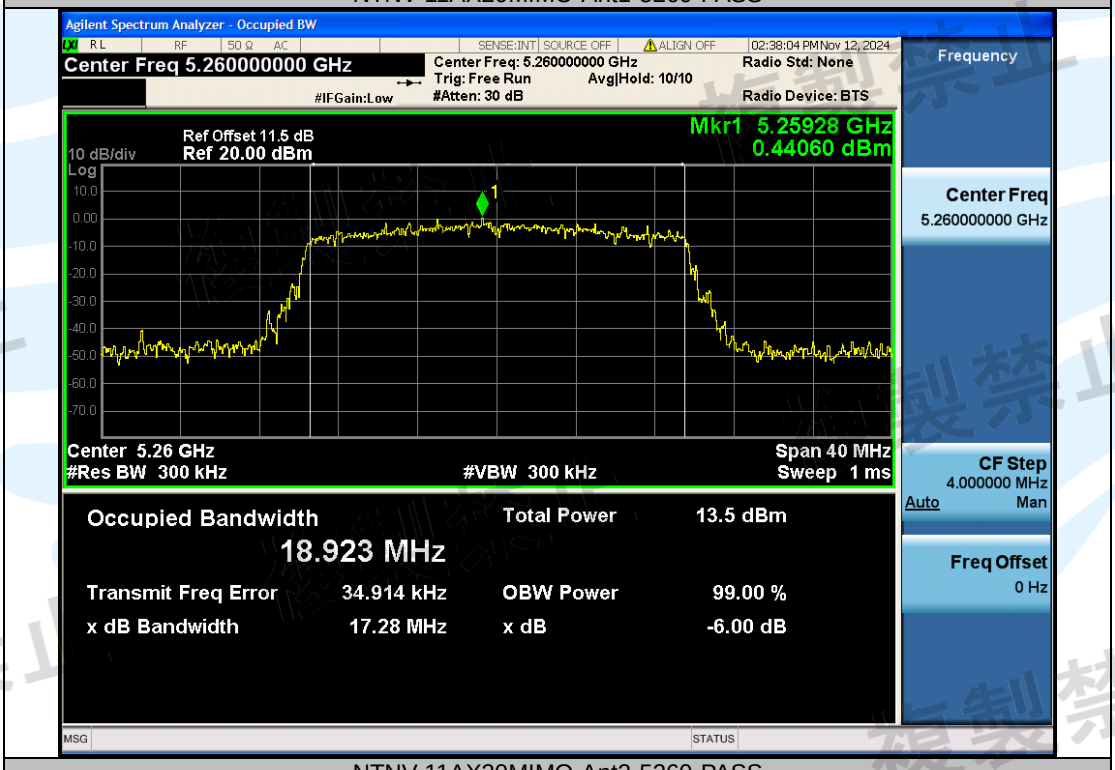
NTNV-11AX20MIMO-Ant1-5240-PASS



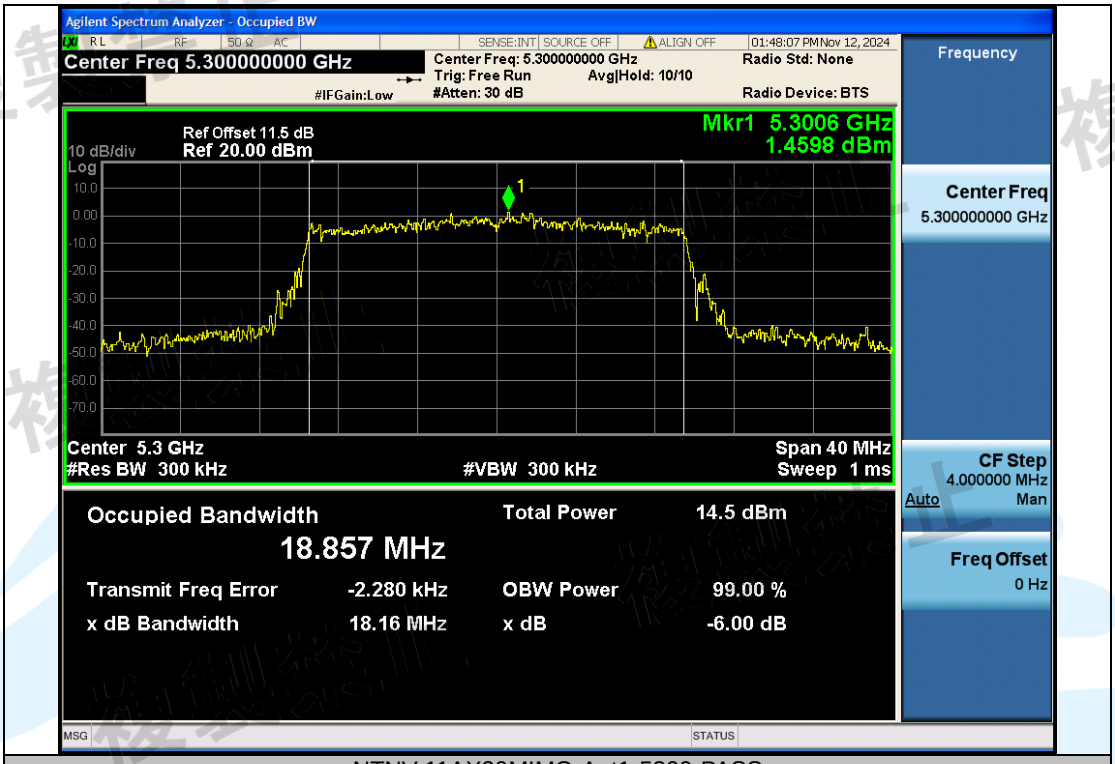
NTNV-11AX20MIMO-Ant2-5240-PASS



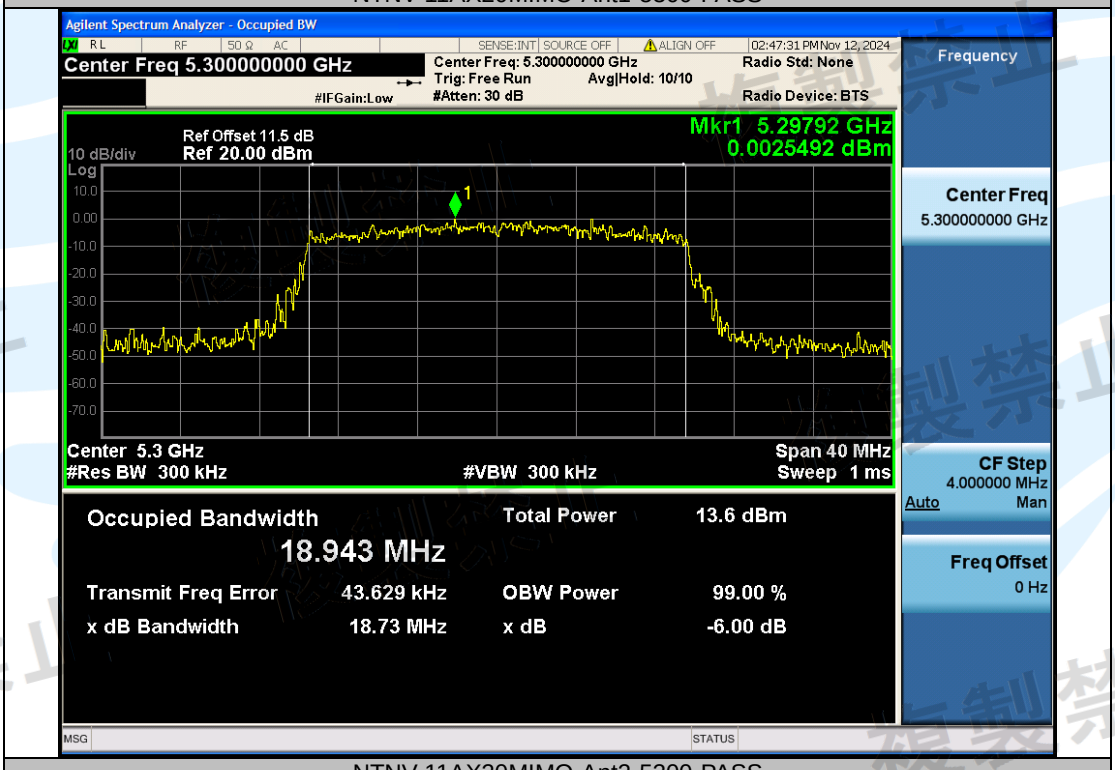
NTNV-11AX20MIMO-Ant1-5260-PASS



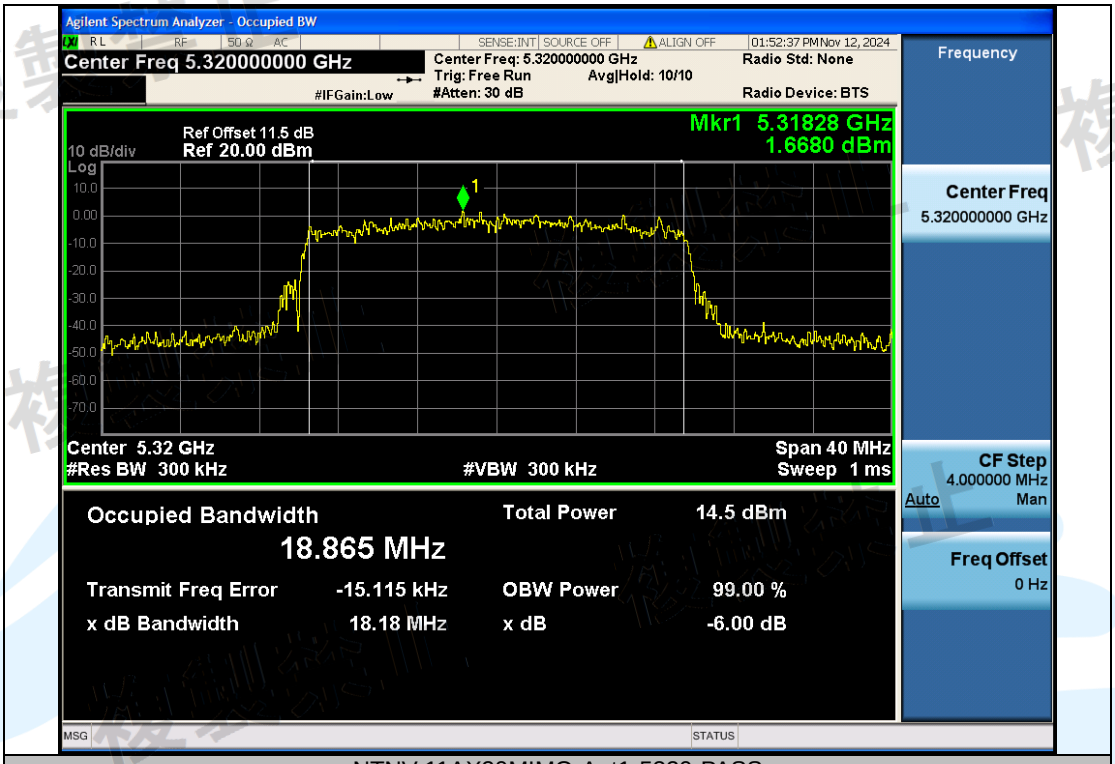
NTNV-11AX20MIMO-Ant2-5260-PASS



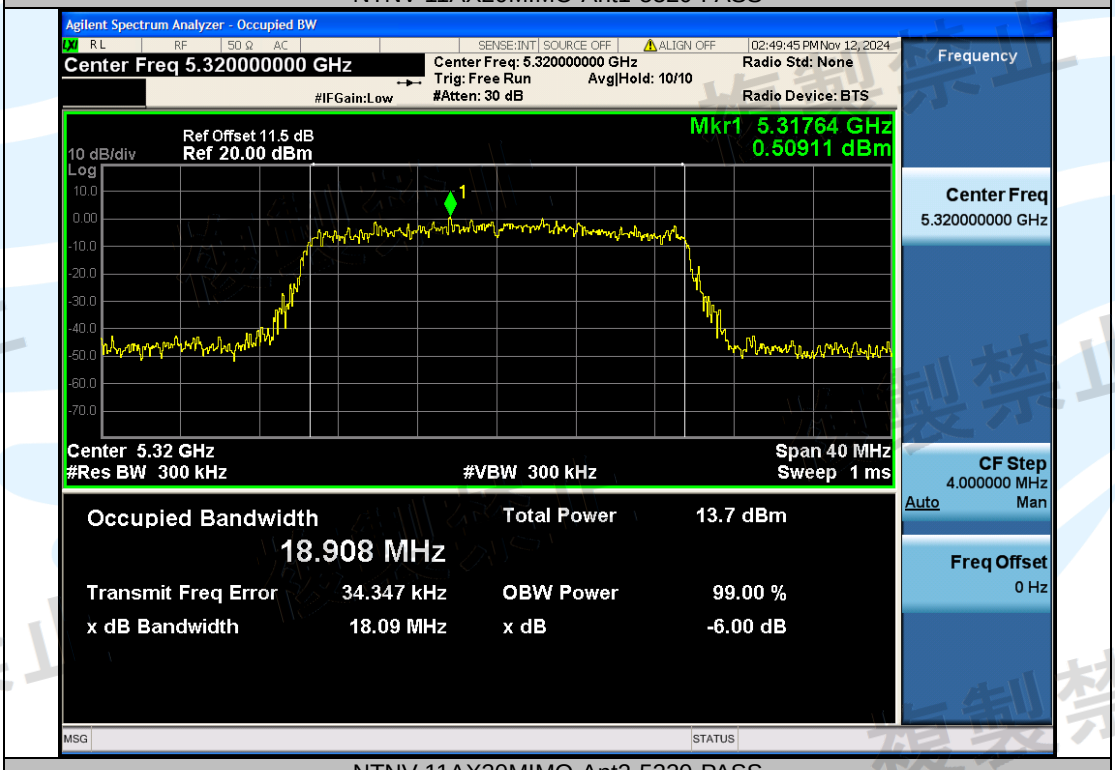
NTNV-11AX20MIMO-Ant1-5300-PASS



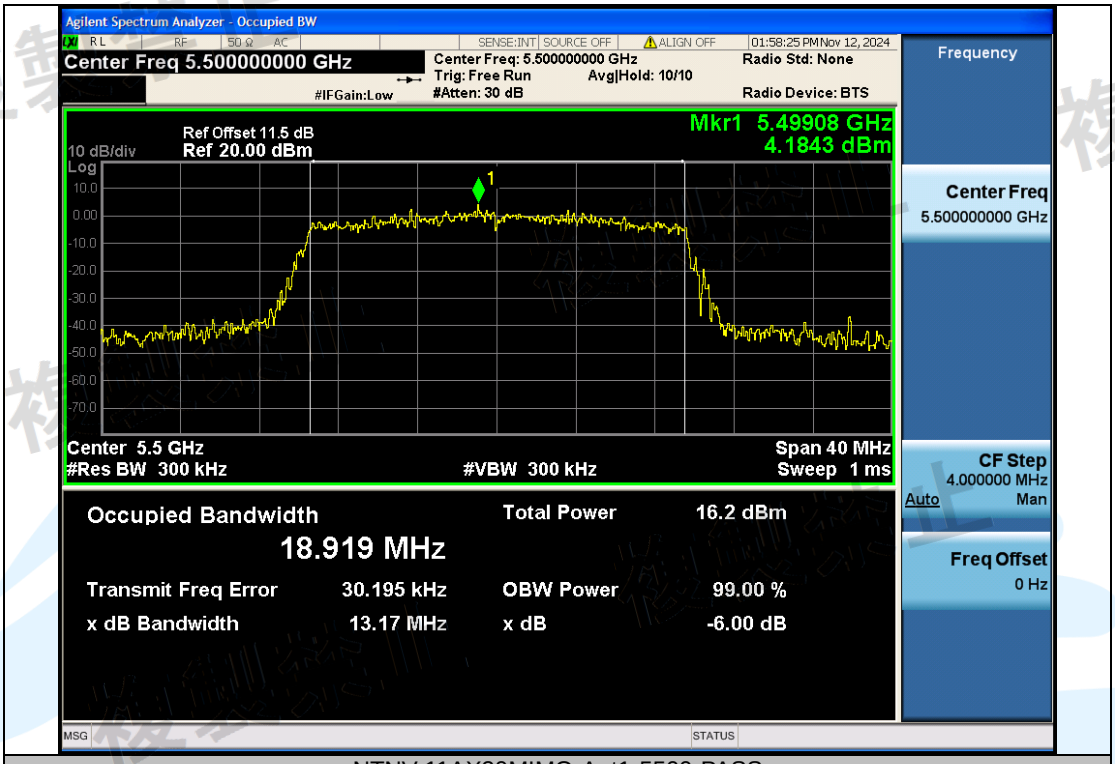
NTNV-11AX20MIMO-Ant2-5300-PASS



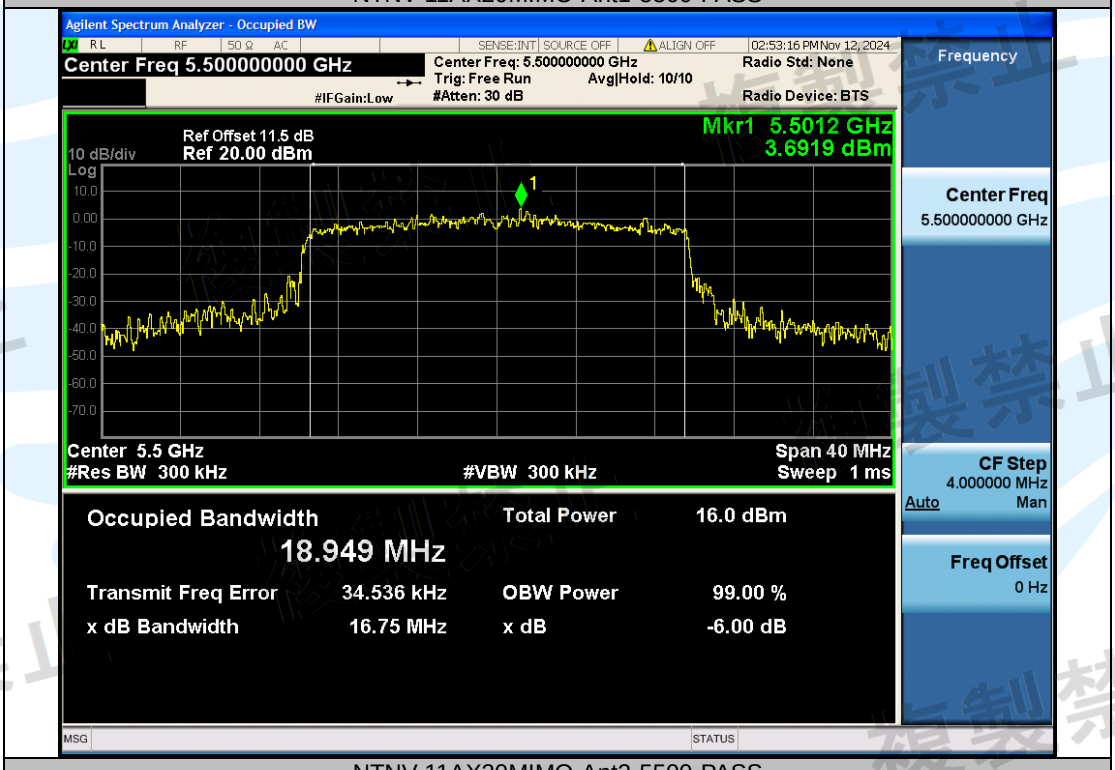
NTNV-11AX20MIMO-Ant1-5320-PASS



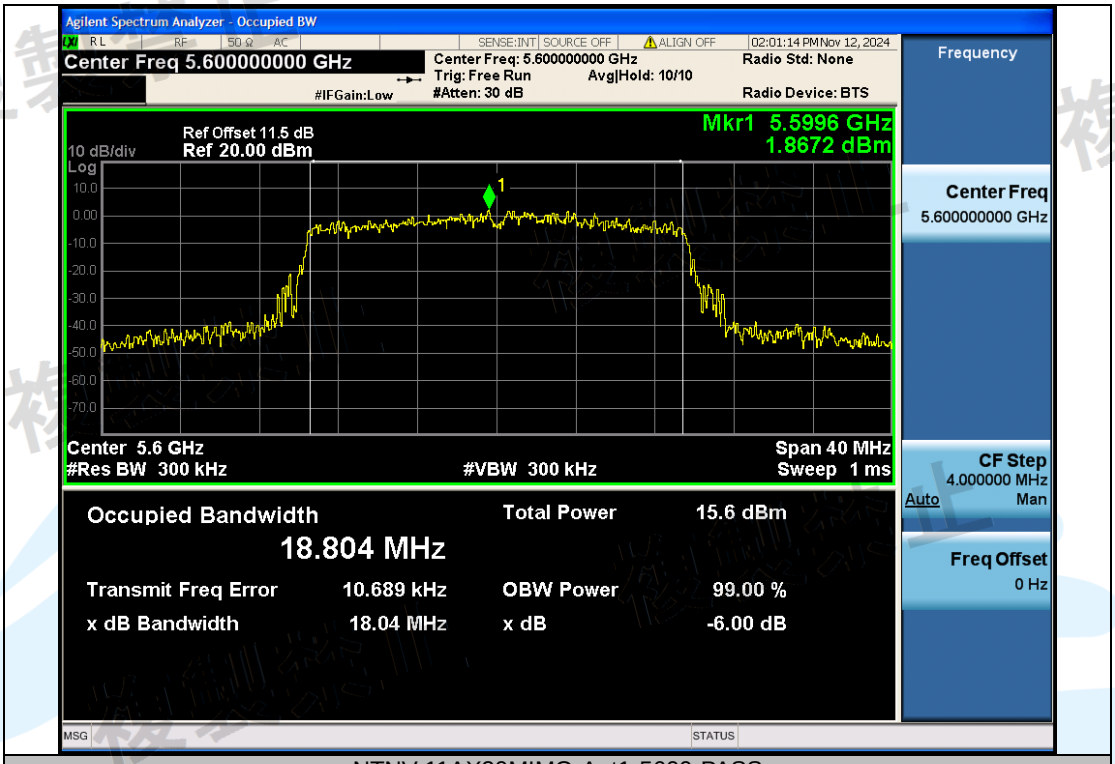
NTNV-11AX20MIMO-Ant2-5320-PASS



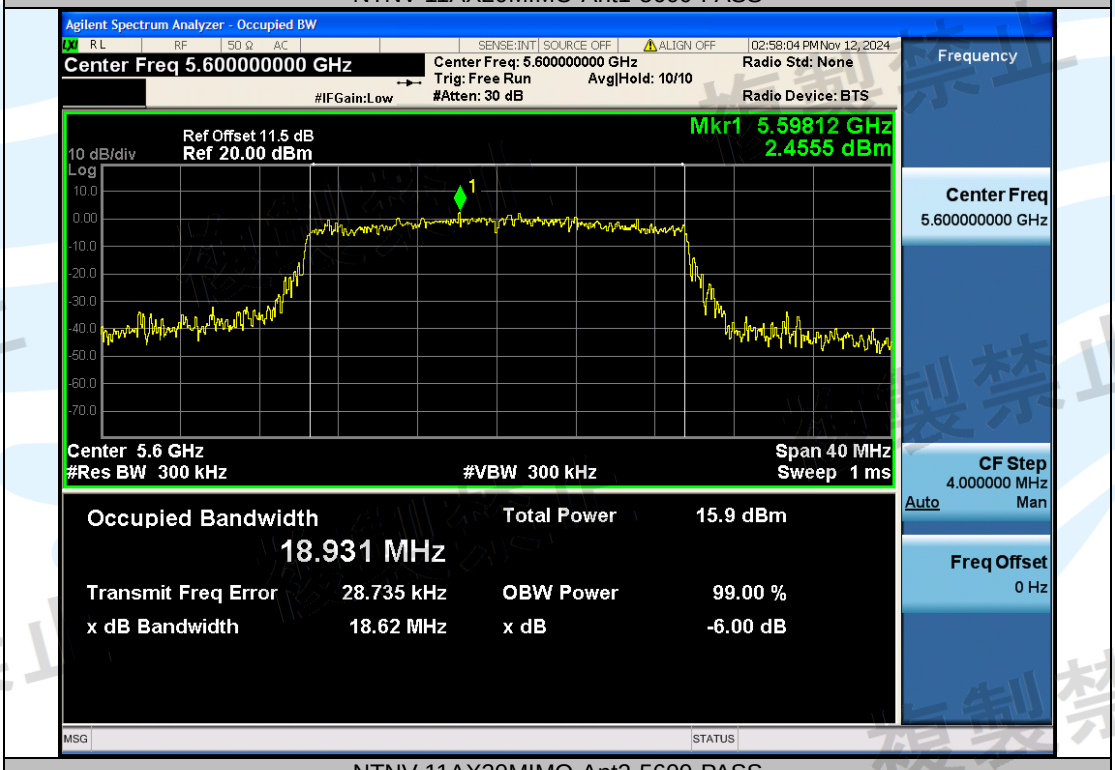
NTNV-11AX20MIMO-Ant1-5500-PASS



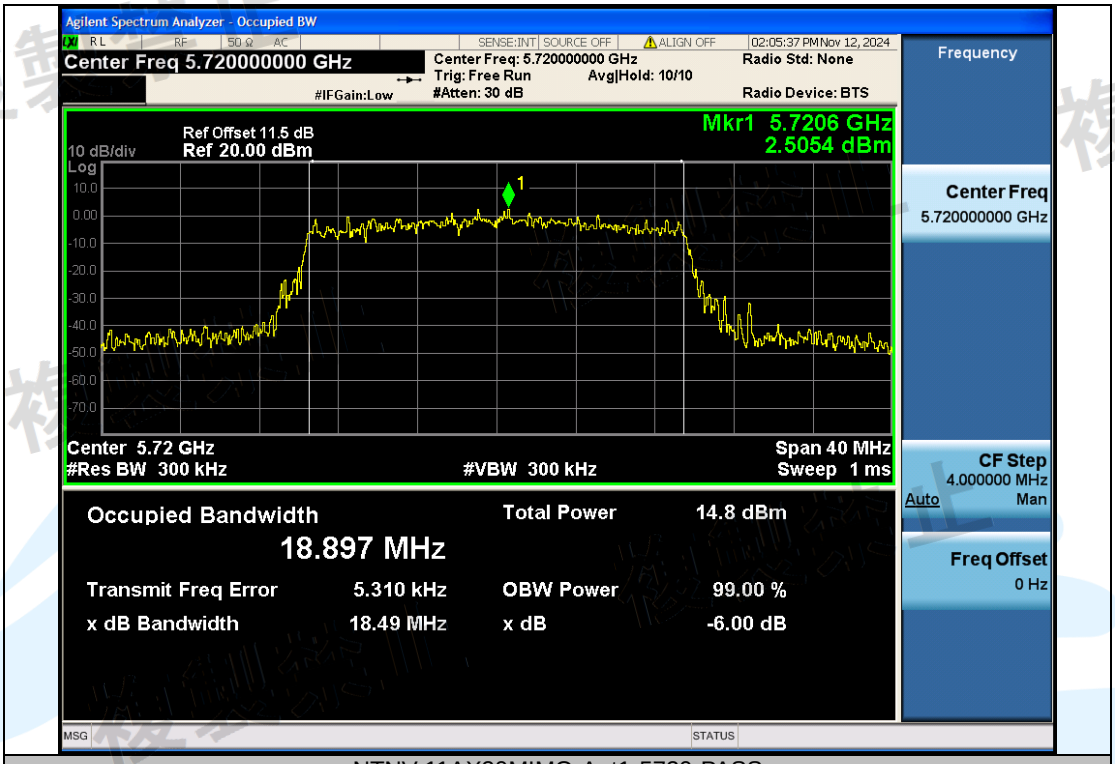
NTNV-11AX20MIMO-Ant2-5500-PASS



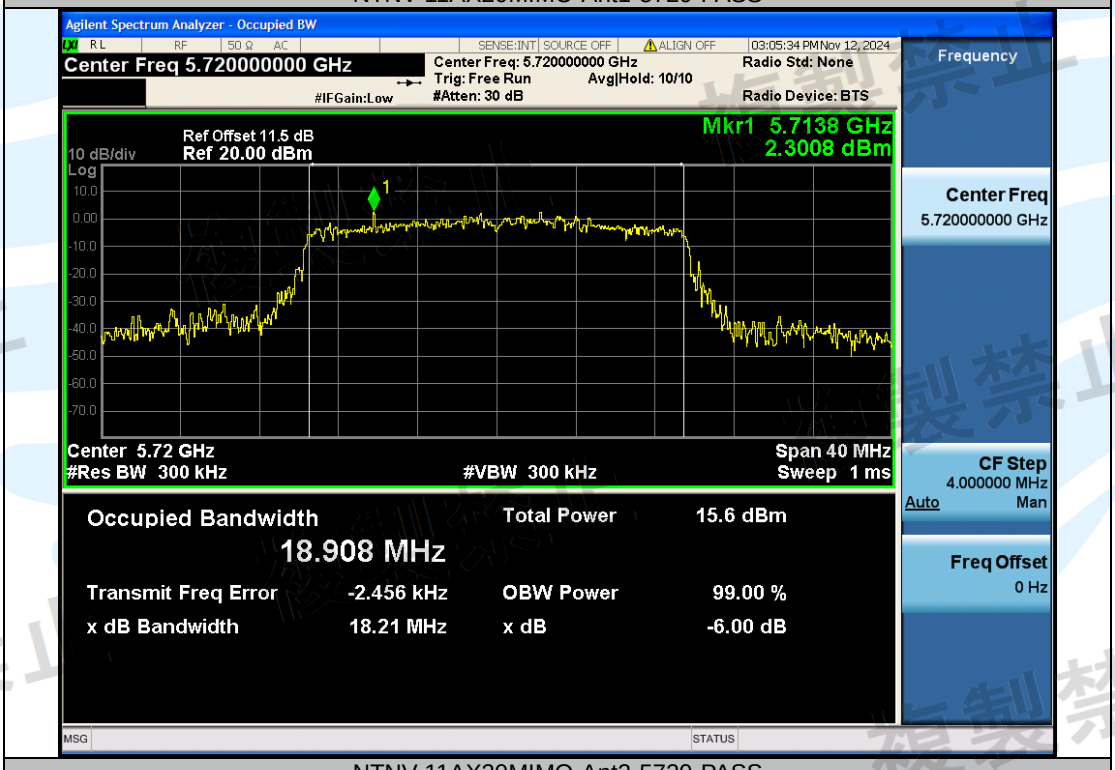
NTNV-11AX20MIMO-Ant1-5600-PASS



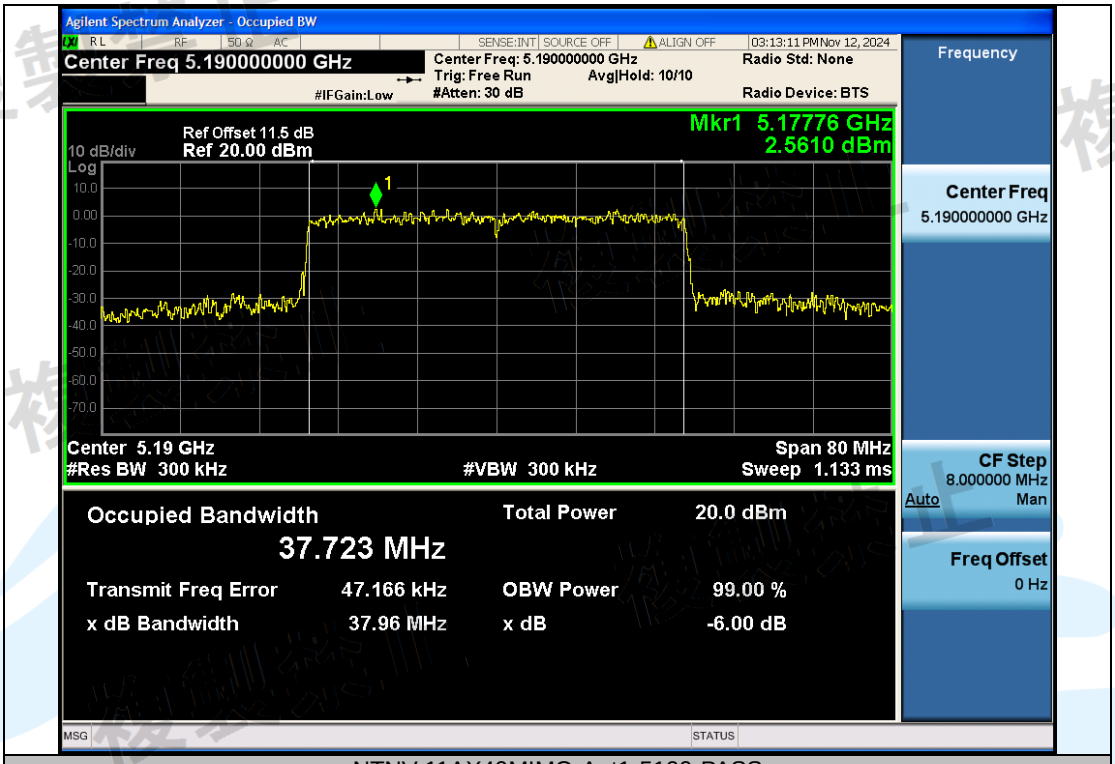
NTNV-11AX20MIMO-Ant2-5600-PASS



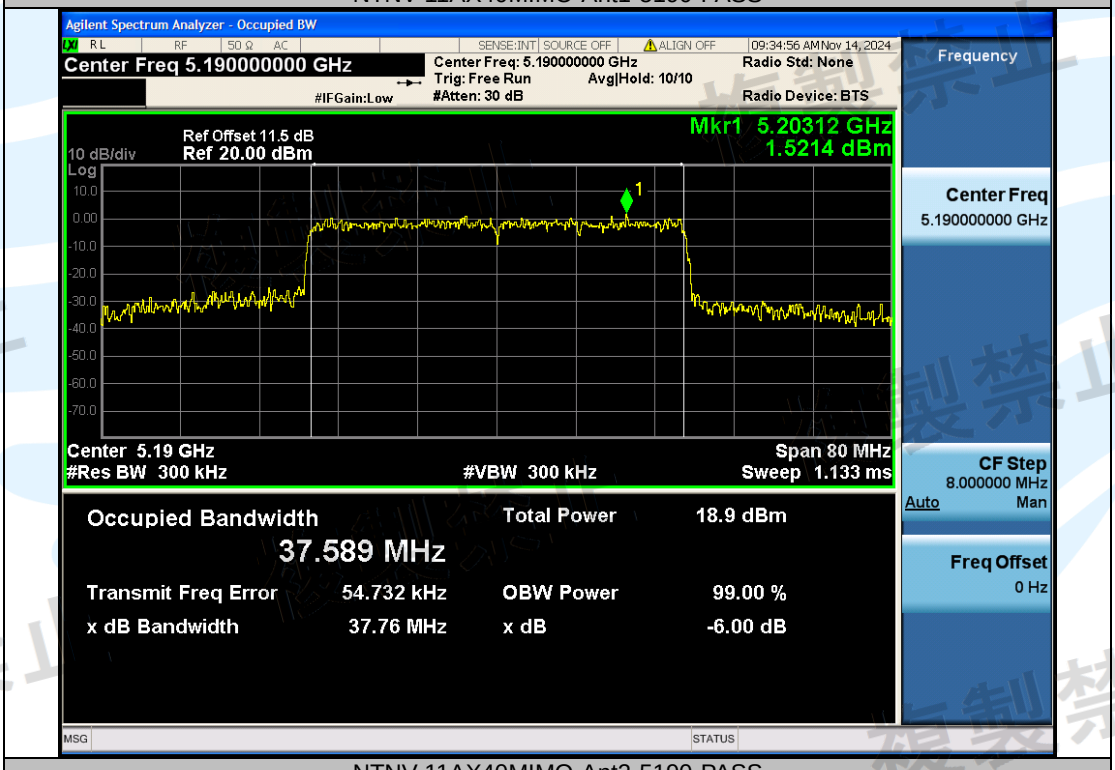
NTNV-11AX20MIMO-Ant1-5720-PASS



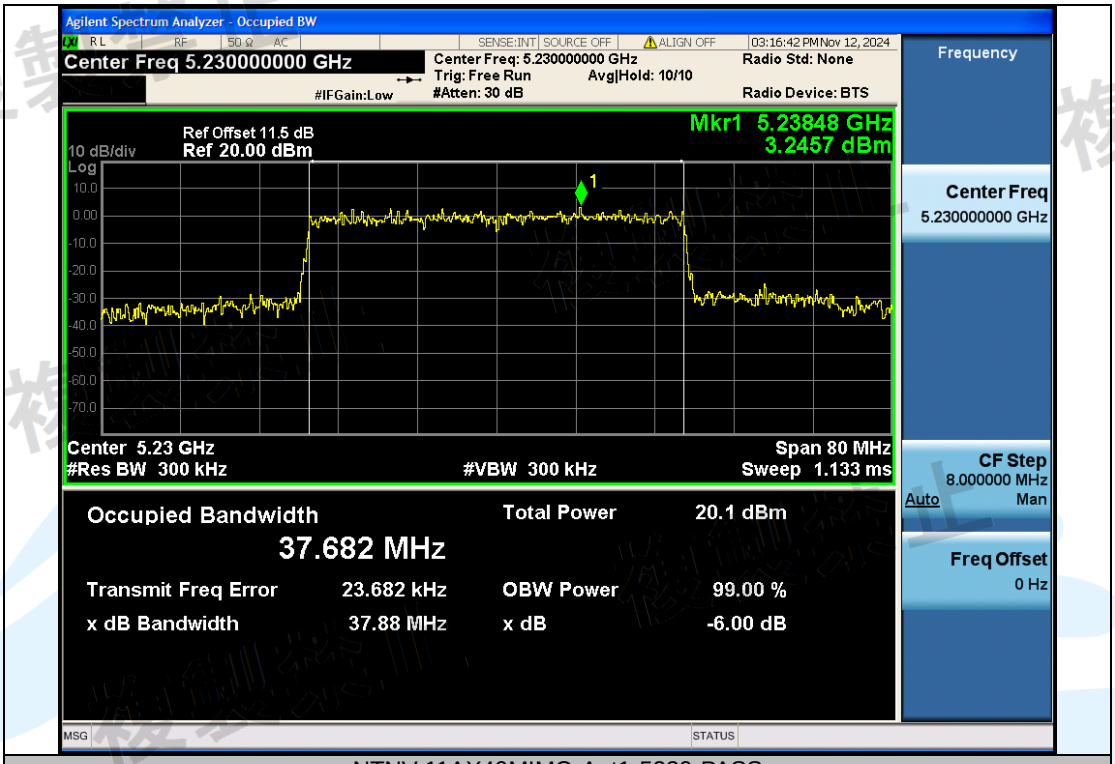
NTNV-11AX20MIMO-Ant2-5720-PASS



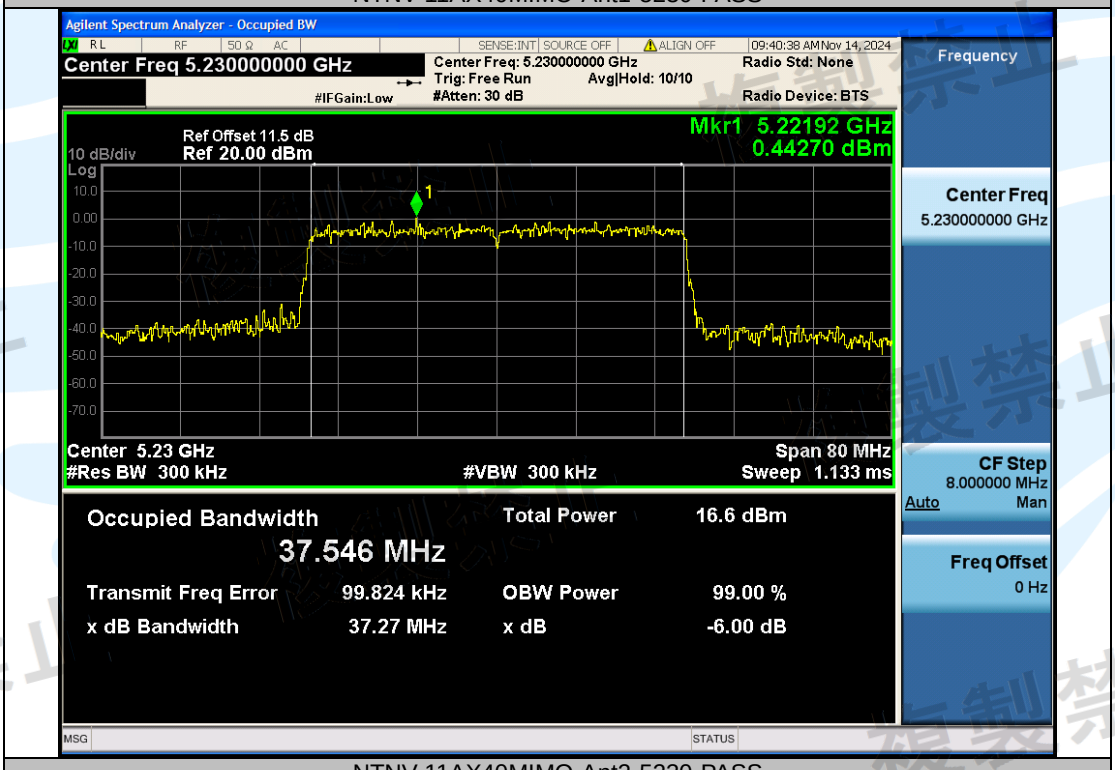
NTNV-11AX40MIMO-Ant1-5190-PASS



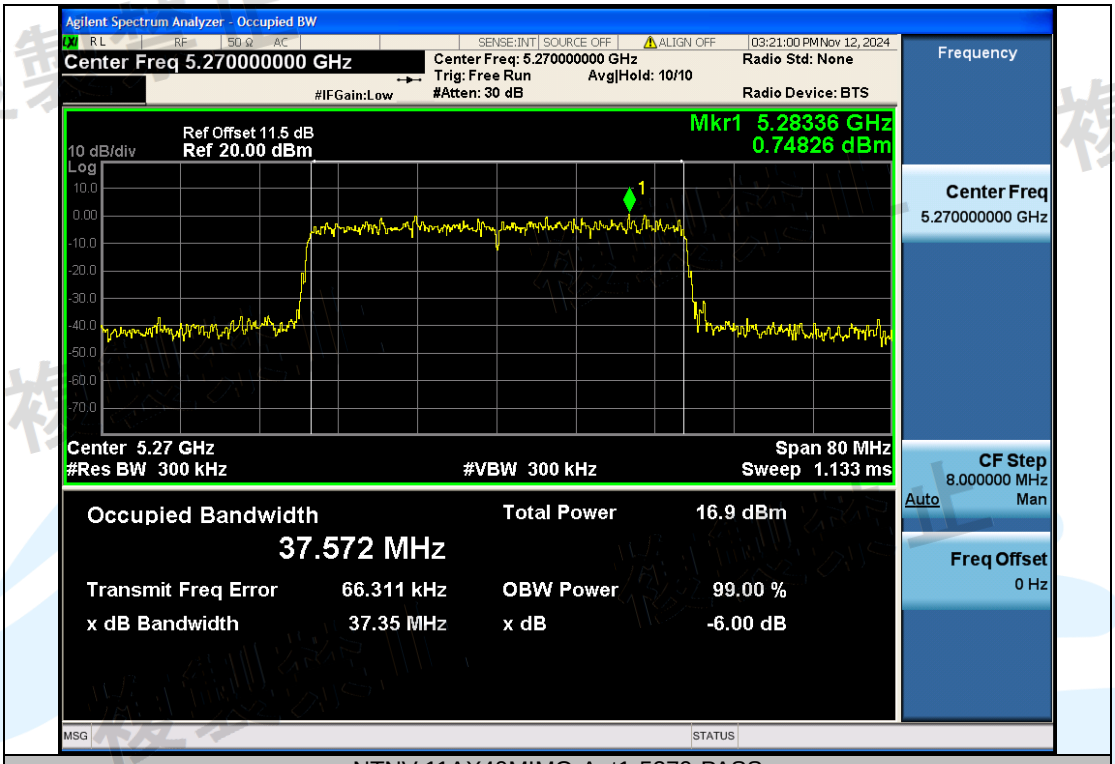
NTNV-11AX40MIMO-Ant2-5190-PASS



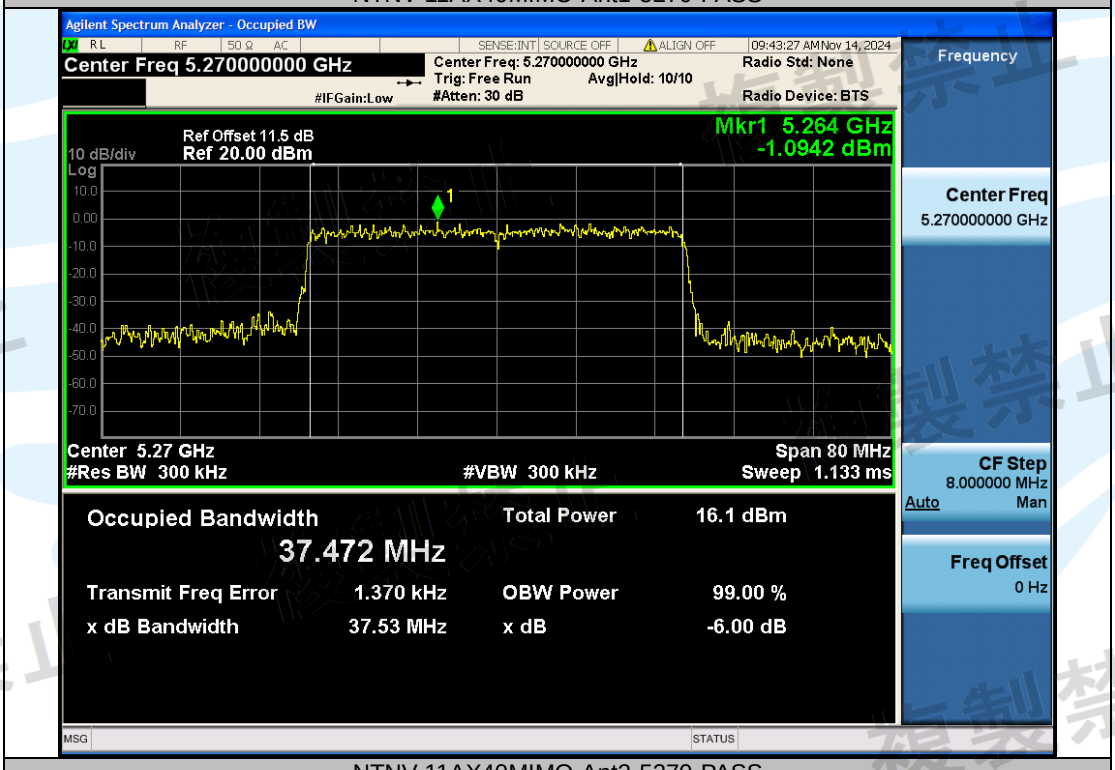
NTNV-11AX40MIMO-Ant1-5230-PASS



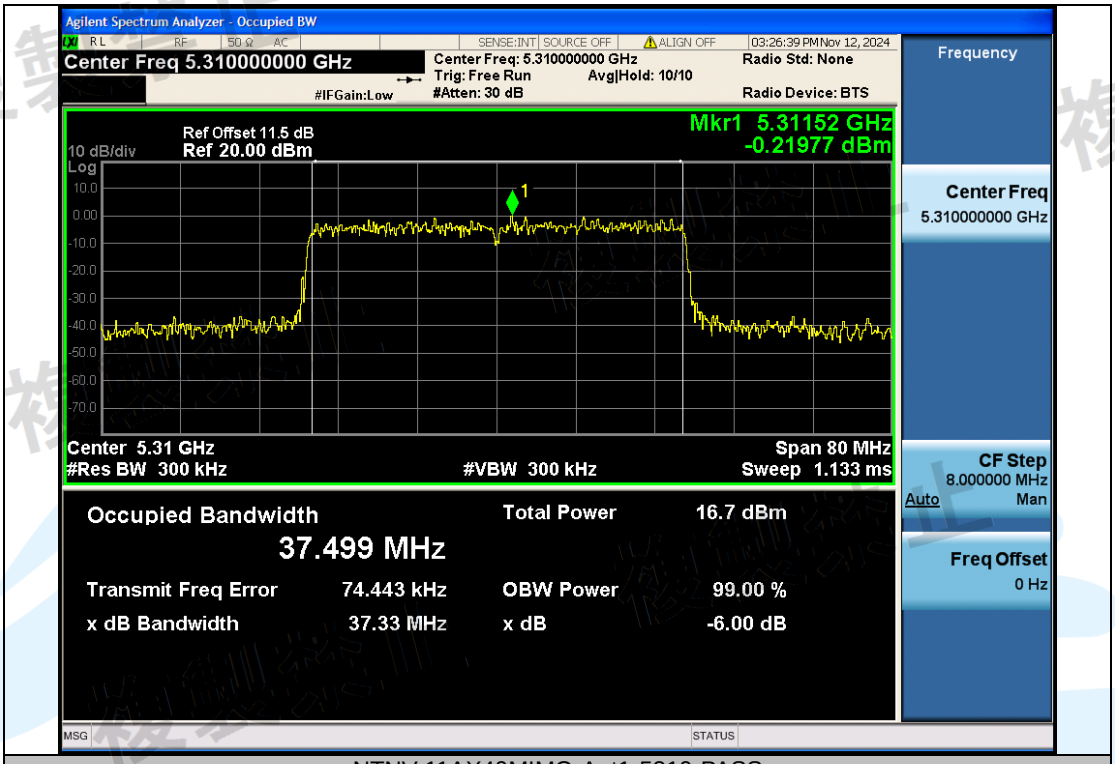
NTNV-11AX40MIMO-Ant2-5230-PASS



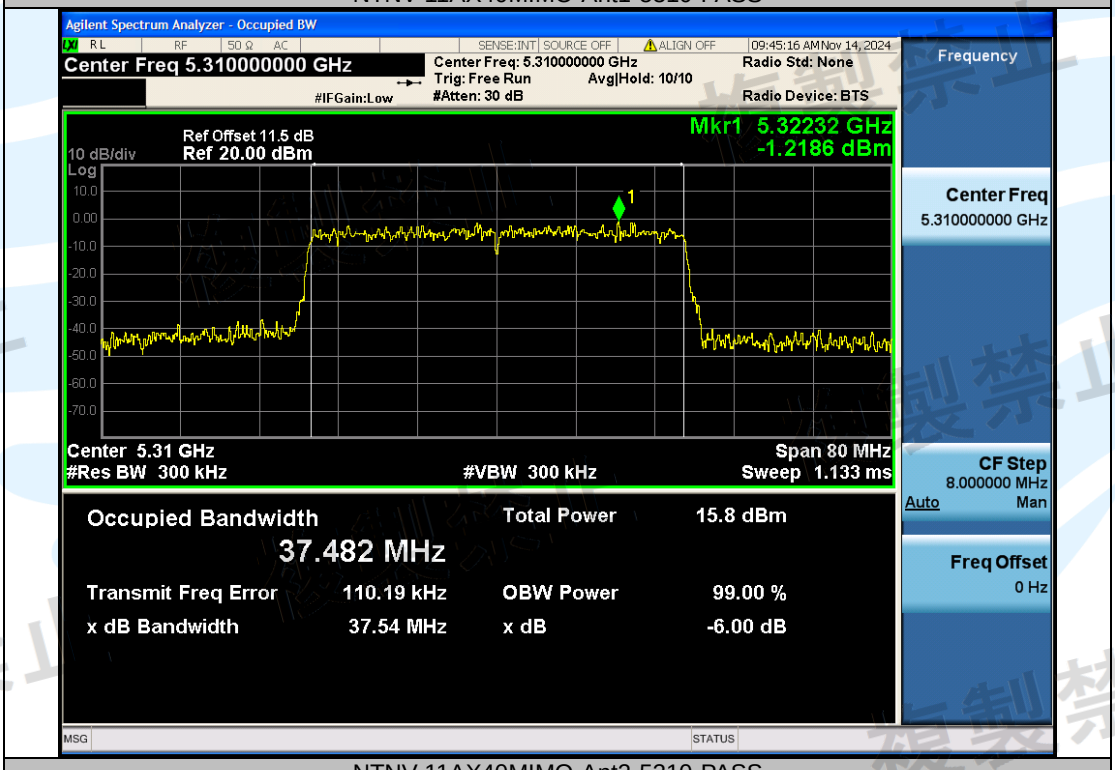
NTNV-11AX40MIMO-Ant1-5270-PASS



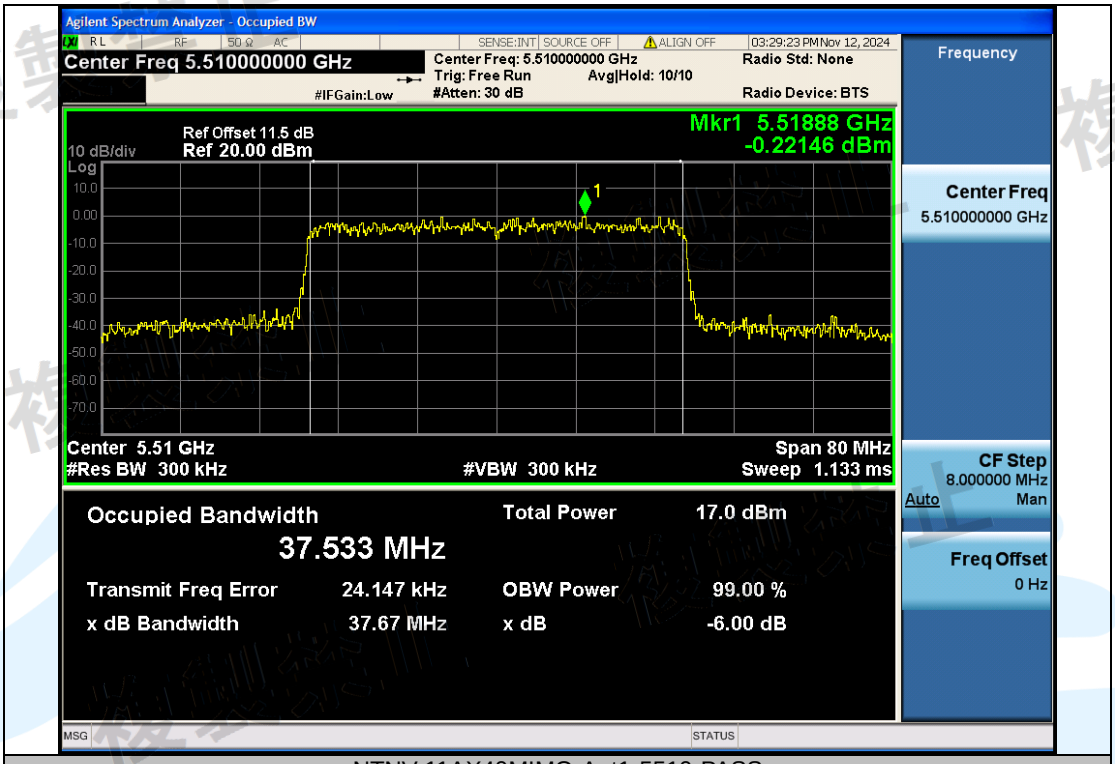
NTNV-11AX40MIMO-Ant2-5270-PASS



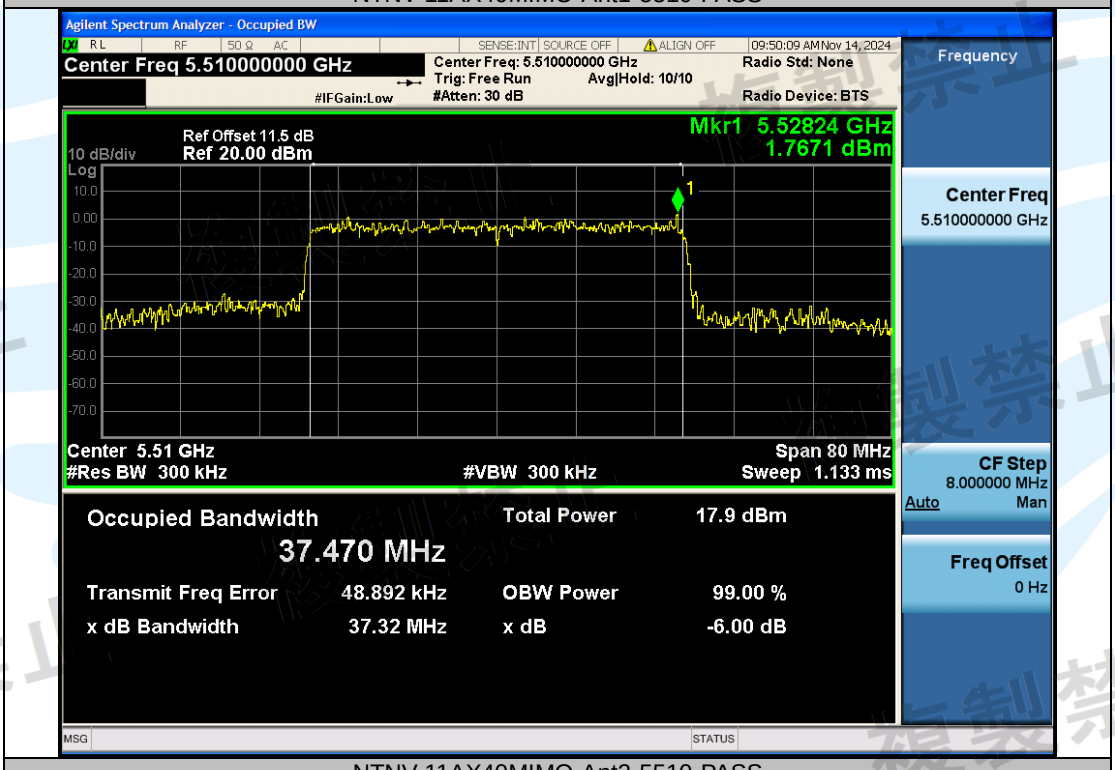
NTNV-11AX40MIMO-Ant1-5310-PASS



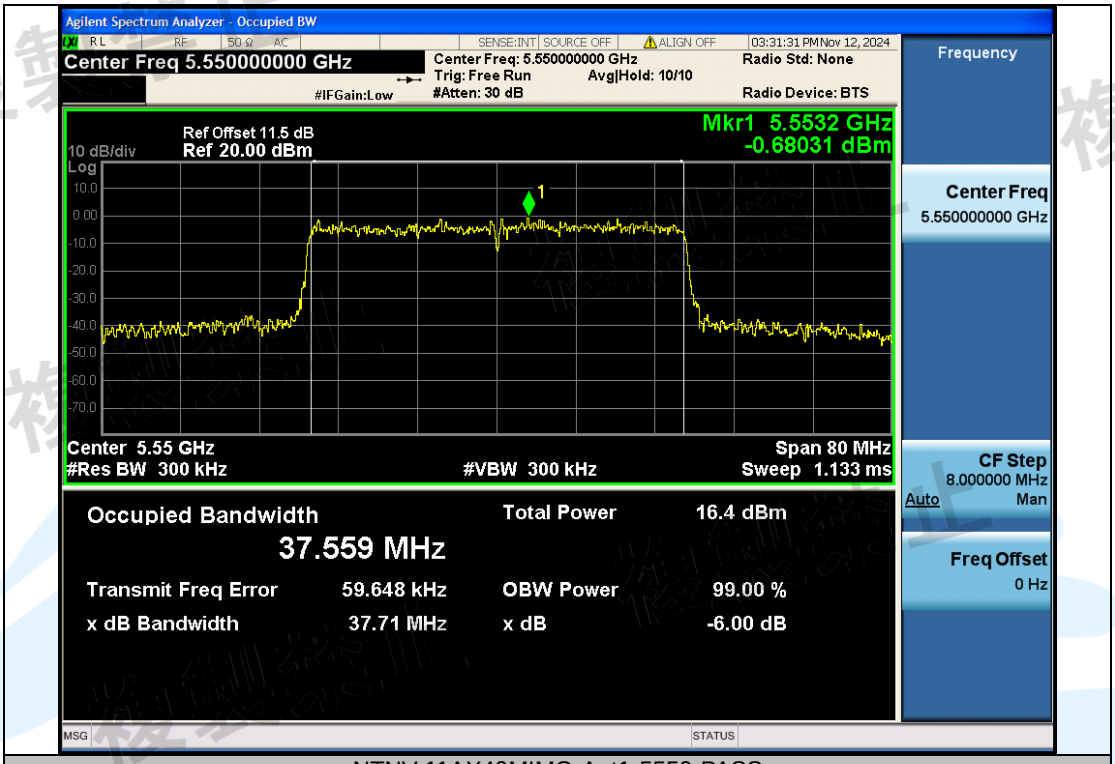
NTNV-11AX40MIMO-Ant2-5310-PASS



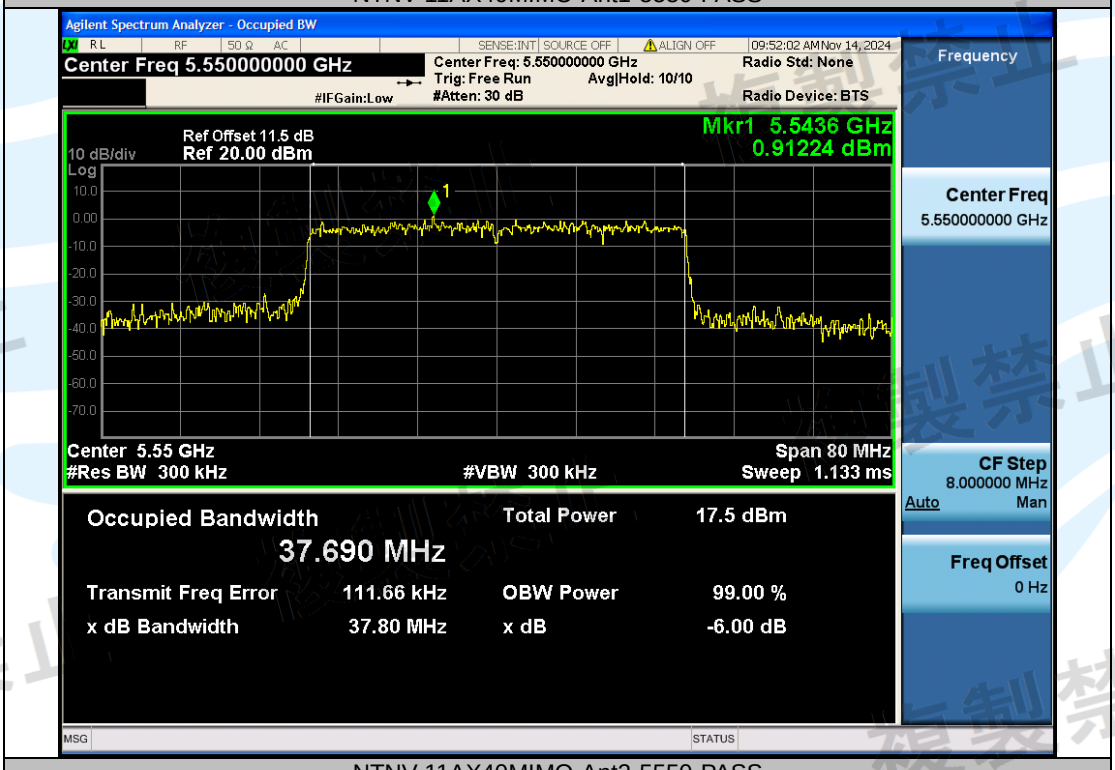
NTNV-11AX40MIMO-Ant1-5510-PASS



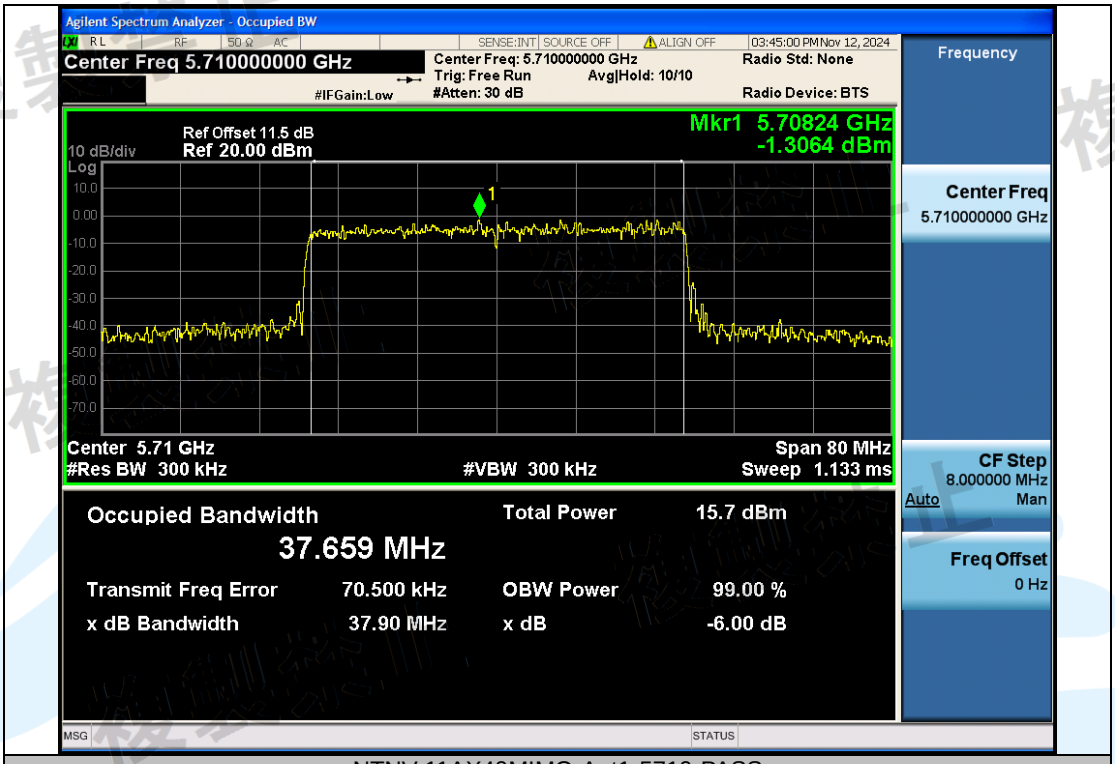
NTNV-11AX40MIMO-Ant2-5510-PASS



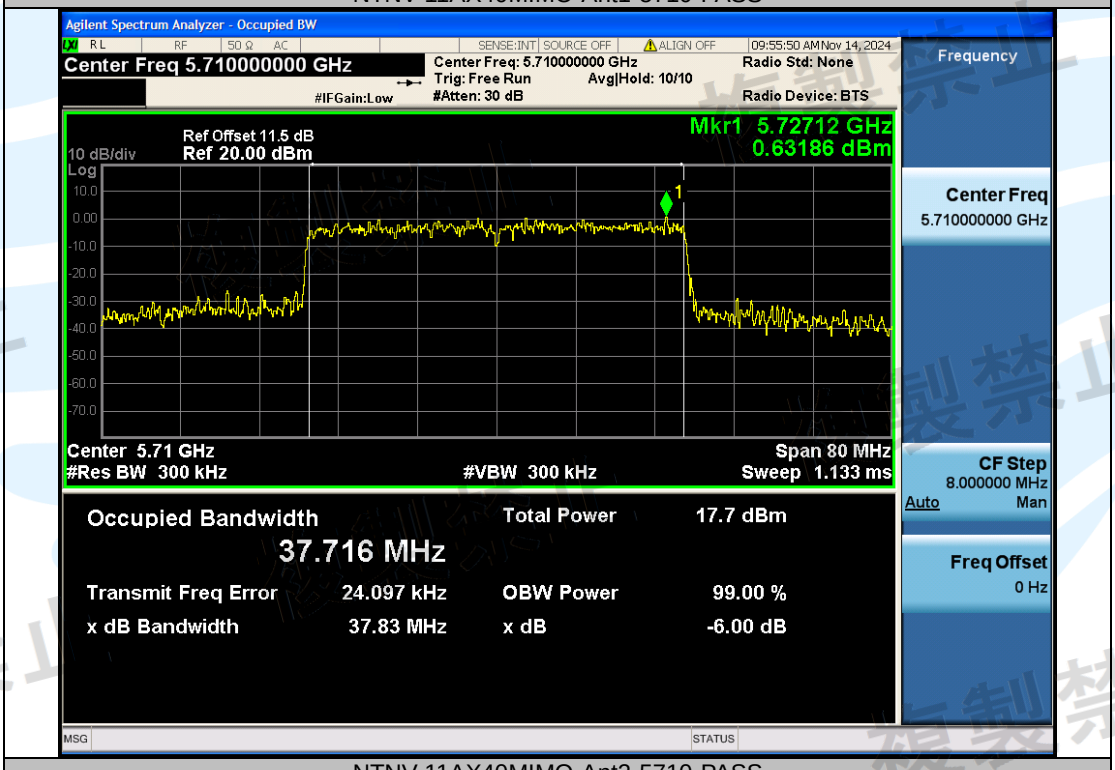
NTNV-11AX40MIMO-Ant1-5550-PASS



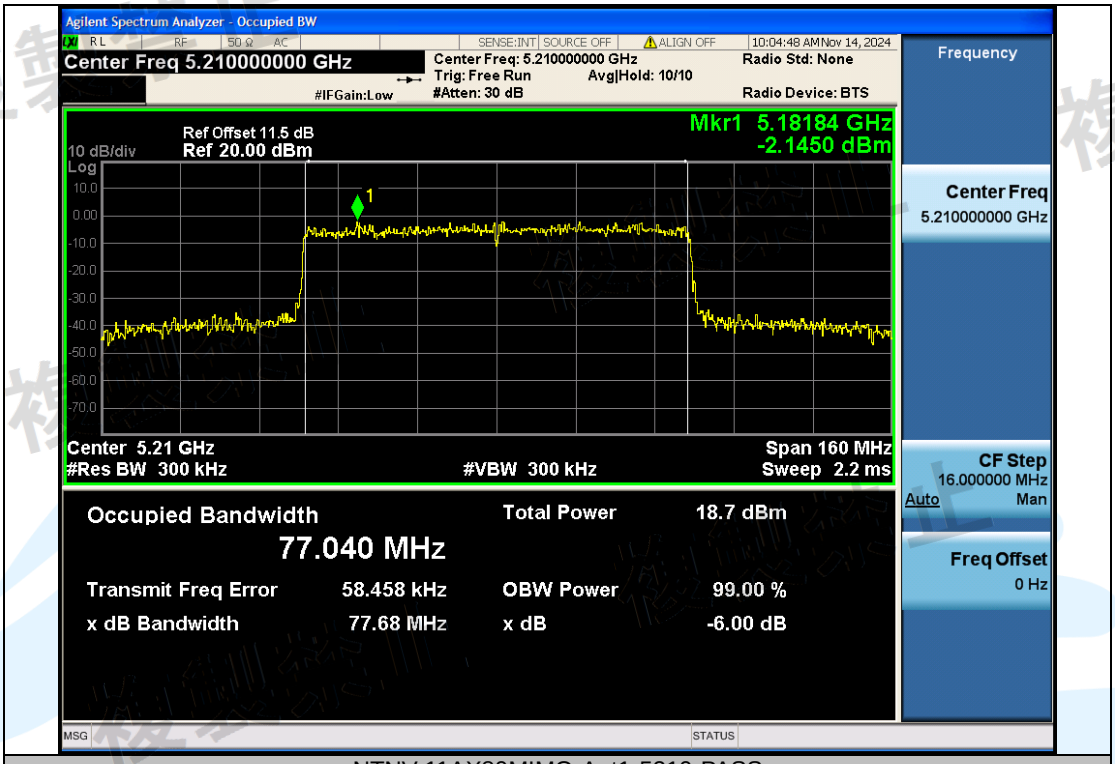
NTNV-11AX40MIMO-Ant2-5550-PASS



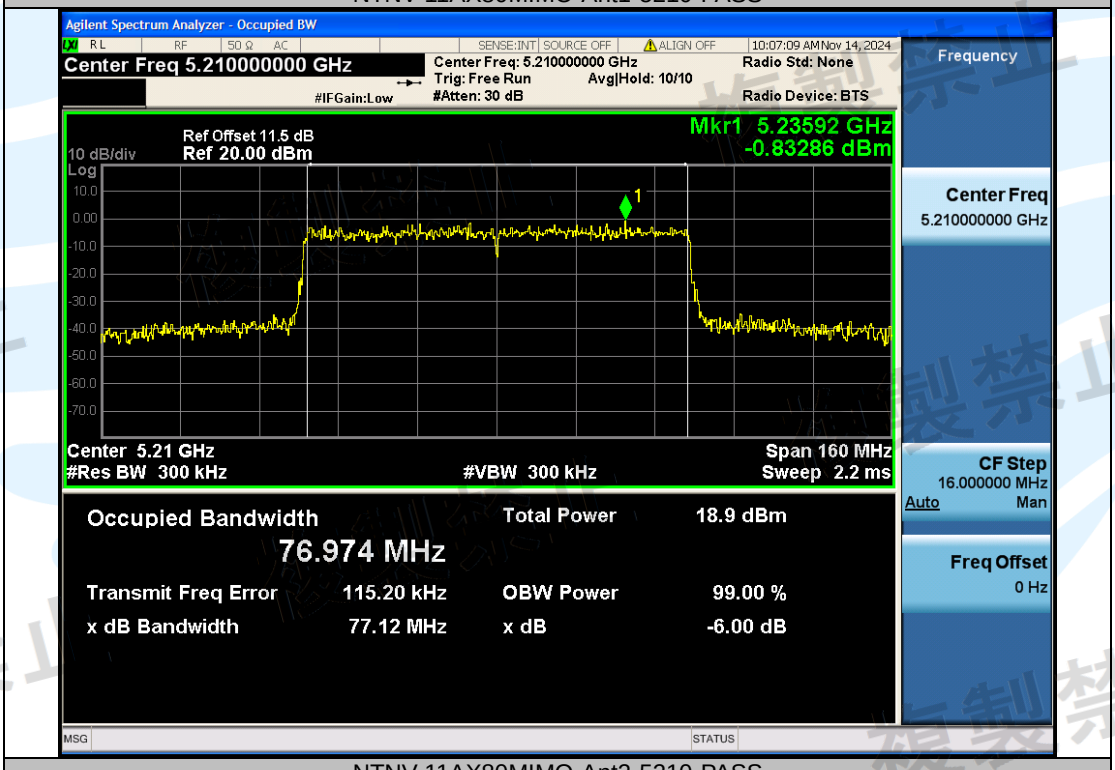
NTNV-11AX40MIMO-Ant1-5710-PASS



NTNV-11AX40MIMO-Ant2-5710-PASS



NTNV-11AX80MIMO-Ant1-5210-PASS



NTNV-11AX80MIMO-Ant2-5210-PASS