

RF TEST REPORT

For

Kashimura Co., Ltd.

Product Name: Smart Projector

Test Model(s): KD-287

Report Reference No. : DACE260126001RF004

Applicant's Name : Kashimura Co., Ltd.

Address : 6-9-28, Ayase, Adachi-ku, Tokyo, Japan

Testing Laboratory : Shenzhen DACE Testing Technology Co., Ltd.

Address : 102, Building H1, & 1/F., Building H, Hongfa Science & Technology Park,
Tangtou Community, Shiyan Subdistrict, Bao'an District, Shenzhen,
Guangdong, China

Test Specification Standard : Article 2-1, Item 19-3

Date of Receipt : January 26, 2026

Date of Test : January 26, 2026 to February 26, 2026

Date of Issue : February 26, 2026

Result : Pass

Note: This report shall not be reproduced except in full, without the written approval of Shenzhen DACE Testing Technology Co., Ltd. This document may be altered or revised by Shenzhen DACE Testing Technology Co., Ltd. personnel only, and shall be noted in the revision section of the document. The test results in the report only apply to the tested sample



Apply for company information

Applicant's Name	:	Kashimura Co., Ltd.
Address	:	6-9-28, Ayase, Adachi-ku, Tokyo, Japan
Product Name	:	Smart Projector
Test Model(s)	:	KD-287
Series Model(s)	:	NKD-287
Test Specification Standard(s)	:	Article 2-1, Item 19-3

NOTE1:

The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards.

Compiled by:

Lucy Mo

Lucy Mo / Test Engineer

February 26, 2026

Supervised by:

Arron Liu

Arron Liu / Project Engineer

February 26, 2026

Approved by:

Tom Chen

Tom Chen / Manager

February 26, 2026

Revision History Of Report

Version	Description	REPORT No.	Issue Date
V1.0	Original	DACE260126001RF004	February 26, 2026

CONTENTS

1	TEST SUMMARY	6
1.1	TEST STANDARDS	6
1.2	SUMMARY OF TEST RESULT	6
2	GENERAL INFORMATION	7
2.1	CLIENT INFORMATION	7
2.2	DESCRIPTION OF DEVICE (EUT)	7
2.3	DESCRIPTION OF TEST MODES	7
2.4	DESCRIPTION OF SUPPORT UNITS	8
2.5	CHANNEL LIST:	8
2.6	TEST ENVIRONMENTAL CONDITIONS	8
2.7	DESCRIPTION OF SUPPORT UNITS	8
2.8	EQUIPMENTS USED DURING THE TEST	9
2.9	STATEMENT OF THE MEASUREMENT UNCERTAINTY	10
3	RADIO SPECTRUM MATTER TEST RESULTS (RF)	11
3.1	TOLERANCE OF FREQUENCY	11
3.1.1	E.U.T. Operation:	11
3.1.2	Test Setup Diagram:	11
3.1.3	Test Data:	11
3.2	OCCUPIED BANDWIDTH (99%)	12
3.2.1	E.U.T. Operation:	12
3.2.2	Test Setup Diagram:	13
3.2.3	Test Data:	13
3.3	ANTENNA POWER AND TOLERANCE	14
3.3.1	E.U.T. Operation:	15
3.3.2	Test Setup Diagram:	15
3.3.3	Test Data:	15
3.4	E.I.R.P.	16
3.4.1	E.U.T. Operation:	17
3.4.2	Test Setup Diagram:	18
3.4.3	Test Data:	18
3.5	OUT OF BAND EMISSION	19
3.5.1	E.U.T. Operation:	20
3.5.2	Test Setup Diagram:	21
3.5.3	Test Data:	21
3.6	ADJACENT CHANNEL EMITTED POWER	22
3.6.1	E.U.T. Operation:	23
3.6.2	Test Setup Diagram:	23
3.6.3	Test Data:	23
3.7	SPURIOUS EMISSION INTENSITY	24
3.7.1	E.U.T. Operation:	25
3.7.2	Test Setup Diagram:	26
3.7.3	Test Data:	26
3.8	SECONDARY RADIATED EMISSIONS	27
3.8.1	E.U.T. Operation:	27
3.8.2	Test Setup Diagram:	28
3.8.3	Test Data:	28
3.9	CARRIER SENSING 1	29

3.9.1	E.U.T. Operation:.....	29
3.9.2	Test Setup Diagram:.....	30
3.9.3	Test Data:	30
3.10	INTERFERENCE PREVENTION FUNCTION	31
3.10.1	E.U.T. Operation:.....	31
3.10.2	Test Setup Diagram:.....	31
3.10.3	Test Data:	31
3.11	TRANSMISSION BURST LENGTH	32
3.11.1	E.U.T. Operation:	32
3.11.2	Test Setup Diagram:	32
3.11.3	Test Data:.....	32
4	TEST SETUP PHOTOS	33
5	PHOTOS OF THE EUT	34
	APPENDIX	35
1.	Occupied Frequency Bandwidth	36
2.	Spread Spectrum Bandwidth	44
3.	Burst Length	52
4.	RF output power && E.I.R.P(Without TPC)	60
5.	Spurious Emissions.....	75
6.	ACP Measure	94
7.	Frequency Tolerance.....	102
8.	Secondary emission of radio wave	124

1 TEST SUMMARY

1.1 Test Standards

The tests were performed according to following standards:

Article 2-1, Item 19-3 : 5G WIFI

1.2 Summary of Test Result

Item	Standard	Method	Requirement	Result
Tolerance of Frequency	Article 2-1, Item 19-3	Notification No.88 of MIC, 2004, Appendix NO.45	Article 2-1, Item 19-3	Pass
Occupied Bandwidth (99%)	Article 2-1, Item 19-3	Notification No.88 of MIC, 2004, Appendix NO.45	Article 2-1, Item 19-3	Pass
Antenna Power and Tolerance	Article 2-1, Item 19-3	Notification No.88 of MIC, 2004, Appendix NO.45	Article 2-1, Item 19-3	Pass
E.I.R.P	Article 2-1, Item 19-3	Notification No.88 of MIC, 2004, Appendix NO.45	Article 2-1, Item 19-3	Pass
Out of Band Emission	Article 2-1, Item 19-3	Notification No.88 of MIC, 2004, Appendix NO.45	Article 2-1, Item 19-3	Pass
Adjacent Channel Emitted Power	Article 2-1, Item 19-3	Notification No.88 of MIC, 2004, Appendix NO.45	Article 2-1, Item 19-3	Pass
Spurious Emission Intensity	Article 2-1, Item 19-3	Notification No.88 of MIC, 2004, Appendix NO.45	Article 2-1, Item 19-3	Pass
Secondary Radiated Emissions	Article 2-1, Item 19-3	Notification No.88 of MIC, 2004, Appendix NO.45	Article 2-1, Item 19-3	Pass
Carrier Sensing 1	Article 2-1, Item 19-3	Notification No.88 of MIC, 2004, Appendix NO.45	Article 2-1, Item 19-3	Pass
Interference Prevention Function	Article 2-1, Item 19-3	Notification No.88 of MIC, 2004, Appendix NO.45	Article 2-1, Item 19-3	Pass
Transmission Burst Length	Article 2-1, Item 19-3	Notification No.88 of MIC, 2004, Appendix NO.45	Article 2-1, Item 19-3	Pass

Note: 1. N/A-- Not applicable to the this test clause.

2. The results of all conduction method include cable loss.

2 GENERAL INFORMATION

2.1 Client Information

Applicant's Name : Kashimura Co., Ltd.
Address : 6-9-28, Ayase, Adachi-ku, Tokyo, Japan

Manufacturer : Shenzhen Hotack Technology Co., Ltd.
Address : 901, Building No. 4, Hongchuang High-Tech Center, Xikeng Community, Fucheng Street, Longhua District, Shenzhen, Guangdong, 518000 China

2.2 Description of Device (EUT)

Product Name:	Smart Projector
Model/Type reference:	KD-287
Series Model:	NKD-287
Model Difference:	All the model are the same circuit and RF module, only the model name and appearance color are different. Test sample model: KD-287
Trade Mark:	
Power Supply:	Input: 36V=0.95A, 12V=0.7A (Simultaneous Input)
Operation Frequency:	W52: 802.11a/n(HT20)/ac(VHT20): 5180MHz to 5240MHz; 802.11n(HT40)/ac(VHT40): 5190MHz to 5230MHz; 802.11ac(VHT80): 5210MHz
Number of Channels:	W52: 802.11a/n(HT20)/ac(VHT20): 4; 802.11n(HT40)/ac(VHT40): 2; 802.11ac(VHT80): 1
Modulation Type:	802.11a: OFDM(BPSK, QPSK, 16QAM, 64QAM); 802.11n: OFDM (BPSK, QPSK, 16QAM, 64QAM); 802.11ac: OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM)
Antenna Type:	Internal Antenna
Antenna Gain:	3.5dBi
Hardware Version:	LCD_2C-H726
Software Version:	Android 14

2.3 Description of Test Modes

No	Title	Description
TM1	5.2GWIFI TX mode	Keep the EUT in 802.11a/n(HT20/HT40)/ac(VHT20/VHT40/VHT80) transmitting mode.
TM2	5.2GWIFI RX mode	Keep the EUT in 802.11a/n(HT20/HT40)/ac(VHT20/VHT40/VHT80) receiving mode.
Test Environment		Normal Voltage(AC): 100V

2.4 Description of Support Units

Title	Manufacturer	Model No.	Serial No.
AC/DC ADAPTER	Guangdong Mingxin Power Technologies Co.,Ltd.	MX60WB-3600950U-1201000U	/

2.5 Channel list:

CH	Frequency (MHz)	CH	Frequency (MHz)	CH	Frequency (MHz)	CH	Frequency (MHz)
36	5180	38	5190	40	5200	42	5210
44	5220	46	5230	48	5240	/	/

The Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

Test channel	802.11a/n/ac/ax20	802.11n/ac/ax40	802.11ac/ax80
	Frequency (MHz)	Frequency (MHz)	Frequency (MHz)
Lowest channel	5180MHz	5190MHz	/
Middle channel	5200MHz	/	5210MHz
Highest channel	5240MHz	5230MHz	/

2.6 Test Environmental conditions

During the measurement the environmental conditions were within the listed ranges:

Temperature	Normal Temperature:	25°C
Voltage	Normal Voltage	AC: 100V
	Low Voltage	AC: 90V
	High Voltage	AC: 110V
Other	Relative Humidity	54 %
	Air Pressure	101 kPa

When the external power supply voltage is normal Voltage/ low Voltage/ high Voltage, in the RF circuit, monitor the WIFI chip power supply voltage, the voltage is as follows:

External power supply	module input power	RF chip voltage	Tolerance (%)
AC: 100V	DC 3.3V	DC 3.3V	0
AC: 90V	DC 3.3V	DC 3.3V	0
AC: 110V	DC 3.3V	DC 3.3V	0

Note: The power supply supplies the voltage rating and the voltage rating $\pm 10\%$. However, when it can be confirmed that the change of the input voltage to the wireless part circuit of the testing machine is $\pm 1\%$ or less when the input voltage to the testing machine from the external source changes at $\pm 10\%$, examines it only by the voltage rating.

2.7 Description of Support Units

The EUT was tested as an independent device.

2.8 Equipments Used During The Test

Interference Prevention Function
 Transmission Burst Length
 Antenna Power and Tolerance
 Adjacent Channel Emitted Power
 Spurious Emission Intensity
 Tolerance of Frequency
 Occupied Bandwidth (99%)
 E.I.R.P
 Out of Band Emission
 Secondary Radiated Emissions
 Carrier Sensing 1

Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
RF Test Software	Tachoy Information Technology(she nzen) Co.,Ltd.	RTS-01	V1.0.0	/	/
RF Sensor Unit	Tachoy Information Technology(she nzen) Co.,Ltd.	TR1029-2	000001	/	/
Wideband radio communication tester	R&S	CMW500	113410	2025-04-25	2026-04-24
Vector Signal Generator	Keysight	N5181A	MY50143455	2025-12-02	2026-12-01
Signal Generator	Keysight	N5182A	MY48180415	2025-12-02	2026-12-01
Spectrum Analyzer	Keysight	N9020A	MY53420323	2025-12-02	2026-12-01

2.9 Statement Of The Measurement Uncertainty

Test Item	Measurement Uncertainty
Radio Frequency	$\pm 2 \times 10^{-7}$
Occupied Bandwidth	$\pm 3.63\%$
RF conducted power	$\pm 0.733\text{dB}$
Conducted Spurious emissions	$\pm 1.98\text{dB}$
RF conducted power	$\pm 0.733\text{dB}$
Duty cycle	$\pm 3.1\%$

Note: (1) This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.

3 Radio Spectrum Matter Test Results (RF)

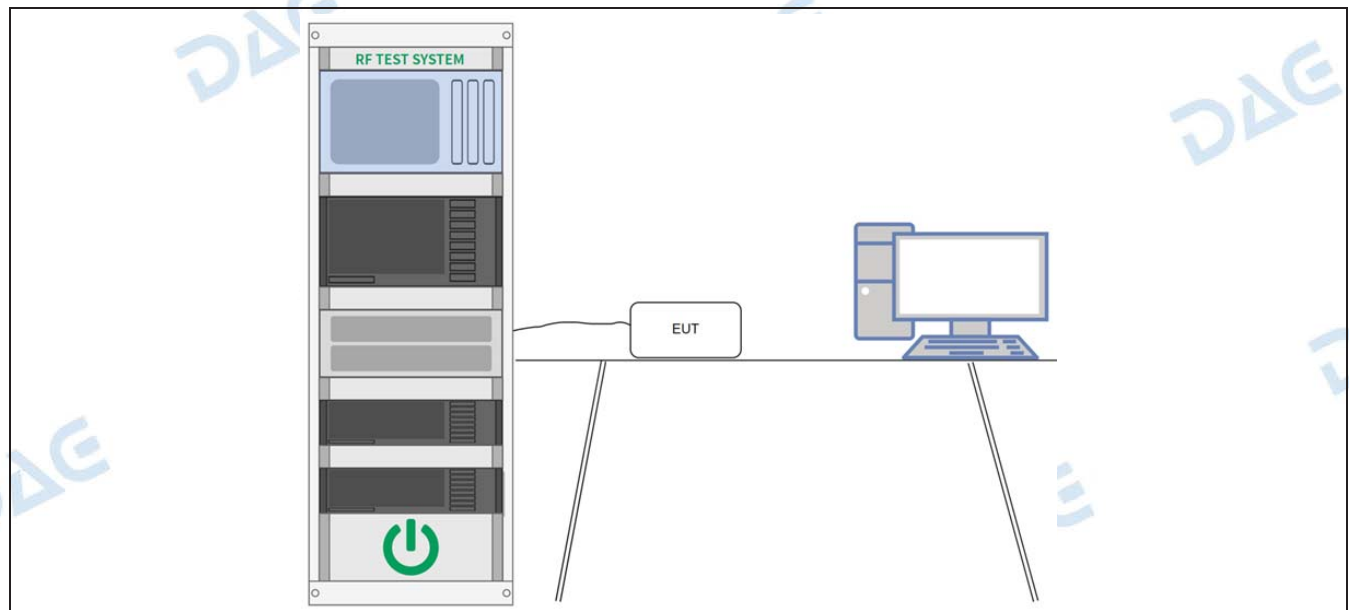
3.1 Tolerance of Frequency

Test Requirement:	Article 2-1, Item 19-3		
Test Limit:	± 20ppm		
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	
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		

3.1.1 E.U.T. Operation:

Operating Environment:						
Temperature:	24 °C		Humidity:	51 %	Atmospheric Pressure:	101.6 kPa
Pretest mode:		TM1				
Final test mode:		TM1				

3.1.2 Test Setup Diagram:



3.1.3 Test Data:

Please Refer to Appendix for Details.

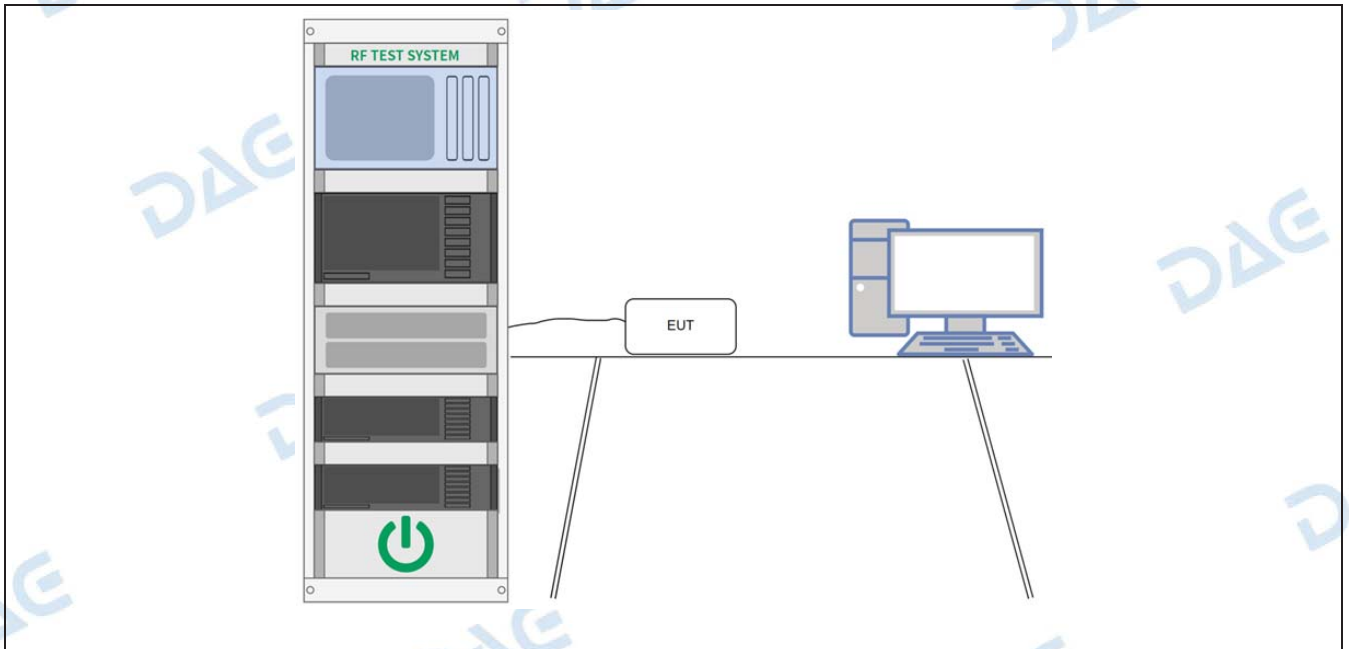
3.2 Occupied Bandwidth (99%)

Test Requirement:	Article 2-1, Item 19-3		
Test Limit:	DSSS: 18MHz OFDM:20/40/80/160MHz		
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%	
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:		
	ANT1 ○ — ATT — ANT2 ○ — ATT — ANT3 ○ — ATT — ANT4 ○ — ATT — Combiner — ○ Spectrum Analyzer System with four Antennas		

3.2.1 E.U.T. Operation:

Operating Environment:					
Temperature:	22.1 °C	Humidity:	55 %	Atmospheric Pressure:	101.6 kPa
Pretest mode:	TM1				
Final test mode:	TM1				

3.2.2 Test Setup Diagram:



3.2.3 Test Data:

Please Refer to Appendix for Details.

3.3 Antenna Power and Tolerance

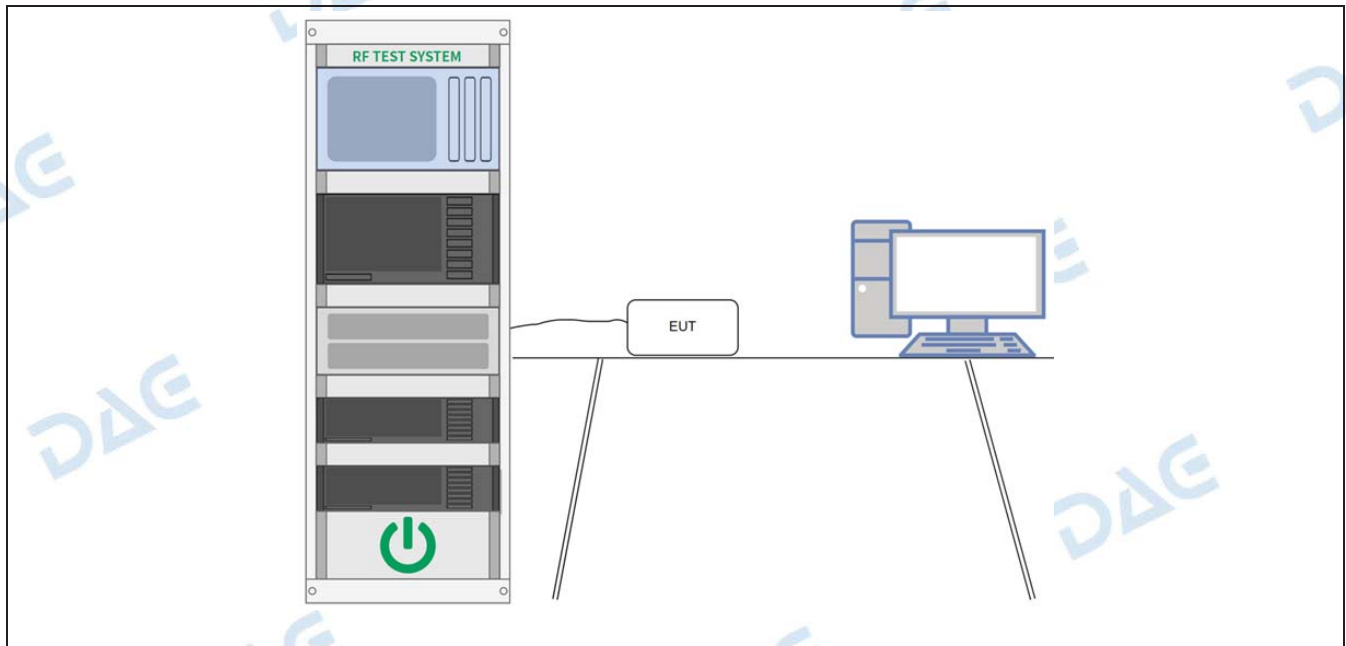
Test Requirement:	Article 2-1, Item 19-3	
Test Limit:	10 mW/MHz or less for DSSS and OFDM 20MHz Bandwidth; 5mW/MHz or less for OFDM 40MHz Bandwidth; 2.5mW/MHz or less for OFDM 80MHz Bandwidth; 1.25mW/MHz or less for OFDM 80+80MHz or 160MHz Bandwidth; Antenna power tolerance: -80% ~ +20% for 5150~5250MHz and 5250~5350MHz; -50% ~ +50% for 5470~5725MHz;	
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
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) $\text{Antenna Power (W/MHz)} = \text{Average Burst Power}$ (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.
--	--

3.3.1 E.U.T. Operation:

Operating Environment:					
Temperature:	23.1 °C	Humidity:	47 %	Atmospheric Pressure:	101.6 kPa
Pretest mode:	TM1				
Final test mode:	TM1				

3.3.2 Test Setup Diagram:

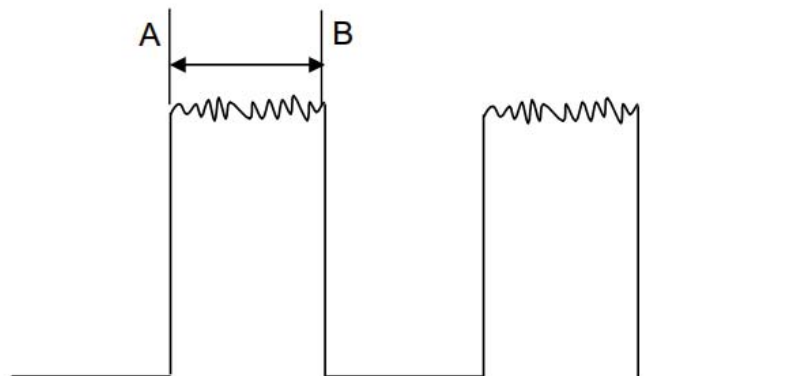


3.3.3 Test Data:

Please Refer to Appendix for Details.

3.4 E.I.R.P

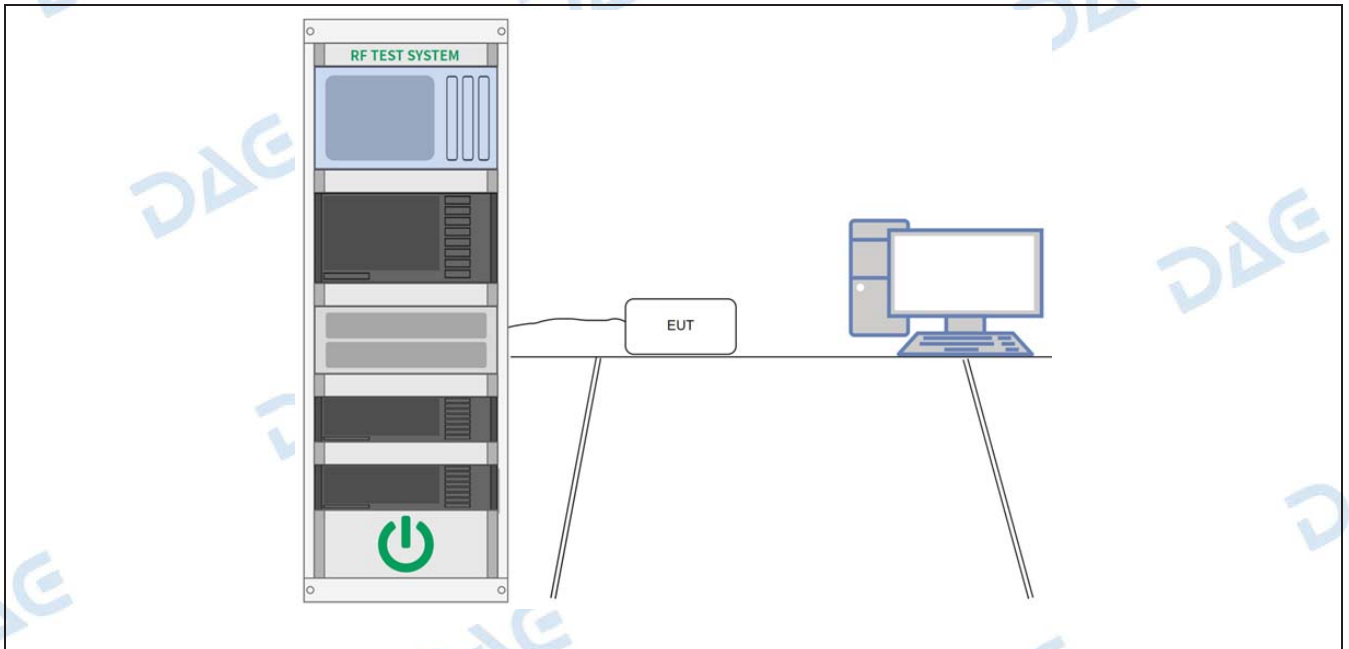
Test Requirement:	Article 2-1, Item 19-3																																													
Test Limit:	5150~5250MHz: 10mW/MHz for DSS and OFDM 20MHz; 5mW/MHz for OFDM 40MHz; 2.5mW/MHz for OFDM 80MHz; 1.25mW/MHz for OFDM 80+80MHz and 160MHz; 5250~5350MHz with TPC: 10mW/MHz for DSS and OFDM 20MHz; 5mW/MHz for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

3.4.1 E.U.T. Operation:

Operating Environment:					
Temperature:	22.9 °C	Humidity:	46 %	Atmospheric Pressure:	101.6 kPa
Pretest mode:	TM1				
Final test mode:	TM1				

3.4.2 Test Setup Diagram:



3.4.3 Test Data:

Please Refer to Appendix for Details.

3.5 Out of Band Emission

Test Requirement:	Article 2-1, Item 19-3																																																																																																																																																														
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 : $10^{12} \sim 10^{11}$ mW/MHz</td><td>5.250 ~ 5.251 MHz : $10^{12} \sim 10^{11}$ mW/MHz</td><td>5.250 ~ 5.251 MHz : $10^{12} \sim 10^{11}$ mW/MHz</td><td>5.250 ~ 5.251 MHz : $10^{12} \sim 10^{11}$ mW/MHz</td></tr><tr><td>5.251 ~ 5.260 MHz : $10^{11} \sim 10^{10}$ mW/MHz</td><td>5.251 ~ 5.260 MHz : $10^{11} \sim 10^{10}$ mW/MHz</td><td>5.251 ~ 5.270 MHz : $10^{11} \sim 10^{10}$ mW/MHz</td><td>5.251 ~ 5.290 MHz : $10^{11} \sim 10^{10}$ mW/MHz</td></tr><tr><td>5.260 ~ 5.266.7 MHz : $10^{10} \sim 10^{9}$ mW/MHz</td><td>5.260 ~ 5.266.7 MHz : $10^{10} \sim 10^{9}$ mW/MHz</td><td>5.270 ~ 5.278.4 MHz : $10^{10} \sim 10^{9}$ mW/MHz</td><td>5.290 ~ 5.296.7 MHz : $10^{10} \sim 10^{9}$ 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> <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 : $10^{11} \sim 10^{10}$ mW/MHz</td><td>5.233.3 ~ 5.240 MHz : $10^{11} \sim 10^{10}$ mW/MHz</td><td>5.221.6 ~ 5.230 MHz : $10^{11} \sim 10^{10}$ mW/MHz</td><td>5.203.3 ~ 5.210 MHz : $10^{11} \sim 10^{10}$ mW/MHz</td></tr><tr><td>5.240 ~ 5.249 MHz : $10^{10} \sim 10^{9}$ mW/MHz</td><td>5.240 ~ 5.249 MHz : $10^{10} \sim 10^{9}$ mW/MHz</td><td>5.230 ~ 5.249 MHz : $10^{10} \sim 10^{9}$ mW/MHz</td><td>5.210 ~ 5.249 MHz : $10^{10} \sim 10^{9}$ mW/MHz</td></tr><tr><td>5.249 ~ 5.250 MHz : $10^{10} \sim 10^{9}$ mW/MHz</td><td>5.249 ~ 5.250 MHz : $10^{10} \sim 10^{9}$ mW/MHz</td><td>5.249 ~ 5.250 MHz : $10^{10} \sim 10^{9}$ mW/MHz</td><td>5.249 ~ 5.250 MHz : $10^{10} \sim 10^{9}$ mW/MHz</td></tr><tr><td>5.350 MHz or more : 2.5 μW/MHz</td><td>5.249.8 ~ 5.250 MHz : $10^{10} \sim 10^{9}$ mW/MHz</td><td>5.350 ~ 5.358.4 MHz : 15 μW/MHz</td><td>5.350 ~ 5.378.8 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 5290 (MHz)</td></tr></table> <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> <table><tr><th colspan="2">W52 + W53</th><th colspan="2">W56</th></tr><tr><th colspan="2">160MHz system</th><th colspan="2"></th></tr><tr><td>5.099.6 MHz or less : 2.5 μW/MHz</td><td>5.418.6 MHz or less : 12.5 μW/MHz</td><td colspan="2" rowspan="4">* A rated value is defined by the E.I.R.P. * Measurement range: 30MHz to 26GHz</td></tr><tr><td>5.099.6 ~ 5.150 MHz : 15 μW/MHz</td><td>5.419.6 ~ 5.470 MHz : 50 μW/MHz</td></tr><tr><td>5.350 ~ 5.400.4 MHz : 15 μW/MHz</td><td>5.725 MHz or more : 12.5 μW/MHz</td></tr><tr><td>5.400.4 MHz or more : 2.5 μW/MHz</td><td></td></tr></table> <table><tr><th>5.21GHz & (5.53GHz, 5.61GHz or 5.69GHz)</th><th>5.29GHz & (5.53GHz, 5.61GHz or 5.69GHz)</th><th>5.53GHz & 5.69GHz</th></tr><tr><td colspan="3">80MHz + 80MHz system (Not adjacent radio)</td></tr><tr><td>5.134.8 MHz or less : 2.5 μW/MHz</td><td>5.214.8 MHz or less : 2.5 μW/MHz</td><td>5.419.6 MHz or less : 12.5 μW/MHz</td></tr><tr><td>5.134.8 ~ 5.150 MHz : 162.5 μW/MHz</td><td>5.214.8 ~ 5.249 MHz : $10^{11} \sim 10^{10}$ mW/MHz</td><td>5.419.6 ~ 5.470 MHz : 50 μW/MHz</td></tr><tr><td>5.250 ~ 5.251 MHz : $10^{12} \sim 10^{11}$ mW/MHz</td><td>5.249 ~ 5.250 MHz : $10^{12} \sim 10^{11}$ mW/MHz</td><td>5.419.6 ~ 5.470 MHz : 50 μW/MHz</td></tr><tr><td>5.251 ~ 5.265.2 MHz : $10^{11} \sim 10^{10}$ mW/MHz</td><td>5.350 ~ 5.365.2 MHz : 15 μW/MHz</td><td>5.770 MHz or more : 15 μW/MHz</td></tr><tr><td>5.265.2 ~ 5.370 MHz : 2.5 μW/MHz</td><td>5.365.2 ~ 5.410 MHz : 2.5 μW/MHz</td><td></td></tr><tr><td>2.5 μW/MHz (When used)</td><td>5.410 ~ 5.454.8 MHz : 2.5 μW/MHz</td><td></td></tr><tr><td>5.370 ~ 5.454.8 MHz simultaneously with a 5.2GHz band high-power radio station : 12.5 μW/MHz</td><td></td><td></td></tr><tr><td>15 μW/MHz (When used simultaneously)</td><td></td><td></td></tr><tr><td>5.454.8 ~ 5.470 MHz with a 5.2GHz band high-power radio station : 50 μW/MHz</td><td>5.454.8 ~ 5.470 MHz : 15 μW/MHz</td><td></td></tr><tr><td>5.730 MHz or more : 15 μW/MHz</td><td>5.730 MHz or more : 15 μW/MHz</td><td></td></tr><tr><td>(When used 5000MHz)</td><td>(When used 5000MHz)</td><td></td></tr><tr><td>5.770 MHz or more : 15 μW/MHz</td><td>5.770 MHz or more : 15 μW/MHz</td><td></td></tr><tr><td>f = MHz, Difference from 5210 (MHz)</td><td>f = MHz, Difference from 5230 (MHz)</td><td></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 : $10^{12} \sim 10^{11}$ mW/MHz	5.250 ~ 5.251 MHz : $10^{12} \sim 10^{11}$ mW/MHz	5.250 ~ 5.251 MHz : $10^{12} \sim 10^{11}$ mW/MHz	5.250 ~ 5.251 MHz : $10^{12} \sim 10^{11}$ mW/MHz	5.251 ~ 5.260 MHz : $10^{11} \sim 10^{10}$ mW/MHz	5.251 ~ 5.260 MHz : $10^{11} \sim 10^{10}$ mW/MHz	5.251 ~ 5.270 MHz : $10^{11} \sim 10^{10}$ mW/MHz	5.251 ~ 5.290 MHz : $10^{11} \sim 10^{10}$ mW/MHz	5.260 ~ 5.266.7 MHz : $10^{10} \sim 10^{9}$ mW/MHz	5.260 ~ 5.266.7 MHz : $10^{10} \sim 10^{9}$ mW/MHz	5.270 ~ 5.278.4 MHz : $10^{10} \sim 10^{9}$ mW/MHz	5.290 ~ 5.296.7 MHz : $10^{10} \sim 10^{9}$ 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		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 : $10^{11} \sim 10^{10}$ mW/MHz	5.233.3 ~ 5.240 MHz : $10^{11} \sim 10^{10}$ mW/MHz	5.221.6 ~ 5.230 MHz : $10^{11} \sim 10^{10}$ mW/MHz	5.203.3 ~ 5.210 MHz : $10^{11} \sim 10^{10}$ mW/MHz	5.240 ~ 5.249 MHz : $10^{10} \sim 10^{9}$ mW/MHz	5.240 ~ 5.249 MHz : $10^{10} \sim 10^{9}$ mW/MHz	5.230 ~ 5.249 MHz : $10^{10} \sim 10^{9}$ mW/MHz	5.210 ~ 5.249 MHz : $10^{10} \sim 10^{9}$ mW/MHz	5.249 ~ 5.250 MHz : $10^{10} \sim 10^{9}$ mW/MHz	5.249 ~ 5.250 MHz : $10^{10} \sim 10^{9}$ mW/MHz	5.249 ~ 5.250 MHz : $10^{10} \sim 10^{9}$ mW/MHz	5.249 ~ 5.250 MHz : $10^{10} \sim 10^{9}$ mW/MHz	5.350 MHz or more : 2.5 μ W/MHz	5.249.8 ~ 5.250 MHz : $10^{10} \sim 10^{9}$ mW/MHz	5.350 ~ 5.358.4 MHz : 15 μ W/MHz	5.350 ~ 5.378.8 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 5290 (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		160MHz system				5.099.6 MHz or less : 2.5 μ W/MHz	5.418.6 MHz or less : 12.5 μ W/MHz	* A rated value is defined by the E.I.R.P. * Measurement range: 30MHz to 26GHz		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)	5.53GHz & 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 : $10^{11} \sim 10^{10}$ mW/MHz	5.419.6 ~ 5.470 MHz : 50 μ W/MHz	5.250 ~ 5.251 MHz : $10^{12} \sim 10^{11}$ mW/MHz	5.249 ~ 5.250 MHz : $10^{12} \sim 10^{11}$ mW/MHz	5.419.6 ~ 5.470 MHz : 50 μ W/MHz	5.251 ~ 5.265.2 MHz : $10^{11} \sim 10^{10}$ mW/MHz	5.350 ~ 5.365.2 MHz : 15 μ W/MHz	5.770 MHz or more : 15 μ W/MHz	5.265.2 ~ 5.370 MHz : 2.5 μ W/MHz	5.365.2 ~ 5.410 MHz : 2.5 μ W/MHz		2.5 μ W/MHz (When used)	5.410 ~ 5.454.8 MHz : 2.5 μ W/MHz		5.370 ~ 5.454.8 MHz simultaneously with a 5.2GHz band high-power radio station : 12.5 μ W/MHz			15 μ W/MHz (When used simultaneously)			5.454.8 ~ 5.470 MHz 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 5000MHz)	(When used 5000MHz)		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 5230 (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 : $10^{12} \sim 10^{11}$ mW/MHz	5.250 ~ 5.251 MHz : $10^{12} \sim 10^{11}$ mW/MHz	5.250 ~ 5.251 MHz : $10^{12} \sim 10^{11}$ mW/MHz	5.250 ~ 5.251 MHz : $10^{12} \sim 10^{11}$ mW/MHz																																																																																																																																																												
5.251 ~ 5.260 MHz : $10^{11} \sim 10^{10}$ mW/MHz	5.251 ~ 5.260 MHz : $10^{11} \sim 10^{10}$ mW/MHz	5.251 ~ 5.270 MHz : $10^{11} \sim 10^{10}$ mW/MHz	5.251 ~ 5.290 MHz : $10^{11} \sim 10^{10}$ mW/MHz																																																																																																																																																												
5.260 ~ 5.266.7 MHz : $10^{10} \sim 10^{9}$ mW/MHz	5.260 ~ 5.266.7 MHz : $10^{10} \sim 10^{9}$ mW/MHz	5.270 ~ 5.278.4 MHz : $10^{10} \sim 10^{9}$ mW/MHz	5.290 ~ 5.296.7 MHz : $10^{10} \sim 10^{9}$ 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		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 : $10^{11} \sim 10^{10}$ mW/MHz	5.233.3 ~ 5.240 MHz : $10^{11} \sim 10^{10}$ mW/MHz	5.221.6 ~ 5.230 MHz : $10^{11} \sim 10^{10}$ mW/MHz	5.203.3 ~ 5.210 MHz : $10^{11} \sim 10^{10}$ mW/MHz																																																																																																																																																												
5.240 ~ 5.249 MHz : $10^{10} \sim 10^{9}$ mW/MHz	5.240 ~ 5.249 MHz : $10^{10} \sim 10^{9}$ mW/MHz	5.230 ~ 5.249 MHz : $10^{10} \sim 10^{9}$ mW/MHz	5.210 ~ 5.249 MHz : $10^{10} \sim 10^{9}$ mW/MHz																																																																																																																																																												
5.249 ~ 5.250 MHz : $10^{10} \sim 10^{9}$ mW/MHz	5.249 ~ 5.250 MHz : $10^{10} \sim 10^{9}$ mW/MHz	5.249 ~ 5.250 MHz : $10^{10} \sim 10^{9}$ mW/MHz	5.249 ~ 5.250 MHz : $10^{10} \sim 10^{9}$ mW/MHz																																																																																																																																																												
5.350 MHz or more : 2.5 μ W/MHz	5.249.8 ~ 5.250 MHz : $10^{10} \sim 10^{9}$ mW/MHz	5.350 ~ 5.358.4 MHz : 15 μ W/MHz	5.350 ~ 5.378.8 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 5290 (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																																																																																																																																																													
160MHz system																																																																																																																																																															
5.099.6 MHz or less : 2.5 μ W/MHz	5.418.6 MHz or less : 12.5 μ W/MHz	* A rated value is defined by the E.I.R.P. * Measurement range: 30MHz to 26GHz																																																																																																																																																													
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)	5.53GHz & 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 : $10^{11} \sim 10^{10}$ mW/MHz	5.419.6 ~ 5.470 MHz : 50 μ W/MHz																																																																																																																																																													
5.250 ~ 5.251 MHz : $10^{12} \sim 10^{11}$ mW/MHz	5.249 ~ 5.250 MHz : $10^{12} \sim 10^{11}$ mW/MHz	5.419.6 ~ 5.470 MHz : 50 μ W/MHz																																																																																																																																																													
5.251 ~ 5.265.2 MHz : $10^{11} \sim 10^{10}$ mW/MHz	5.350 ~ 5.365.2 MHz : 15 μ W/MHz	5.770 MHz or more : 15 μ W/MHz																																																																																																																																																													
5.265.2 ~ 5.370 MHz : 2.5 μ W/MHz	5.365.2 ~ 5.410 MHz : 2.5 μ W/MHz																																																																																																																																																														
2.5 μ W/MHz (When used)	5.410 ~ 5.454.8 MHz : 2.5 μ W/MHz																																																																																																																																																														
5.370 ~ 5.454.8 MHz simultaneously with a 5.2GHz band high-power radio station : 12.5 μ W/MHz																																																																																																																																																															
15 μ W/MHz (When used simultaneously)																																																																																																																																																															
5.454.8 ~ 5.470 MHz 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 5000MHz)	(When used 5000MHz)																																																																																																																																																														
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 5230 (MHz)																																																																																																																																																														
Test Method:	<table><tr><td colspan="2">[Setting 1]</td></tr><tr><td>Frequency range:</td><td>Test frequency range as required</td></tr><tr><td>RBW:</td><td>1 MHz</td></tr><tr><td>VBW:</td><td>1 MHz</td></tr><tr><td>Sweep time:</td><td>Minimum time required to make an accurate measurement</td></tr><tr><td>Sweep Data Points:</td><td>1001 or greater</td></tr><tr><td>Detector mode:</td><td>Positive peak</td></tr><tr><td>Indication mode:</td><td>Max hold (see Note 1)</td></tr><tr><td>Note 1:</td><td>Sweep shall be repeated until the max hold waveform is stable.</td></tr><tr><td colspan="2"> </td></tr><tr><td colspan="2">[Setting 2]</td></tr><tr><td>Center frequency:</td><td>Frequency of spurious emission found using [Setting 1]</td></tr><tr><td>Span:</td><td>0 Hz</td></tr><tr><td>RBW:</td><td>1 MHz</td></tr><tr><td>VBW:</td><td>1 MHz</td></tr><tr><td>Sweep time:</td><td>Minimum time required to make an accurate measurement. For burst type (intermittent) spurious emissions, sweep time shall be greater than one burst interval</td></tr></table>				[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																																																																																																																											
[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																																																																																																																																																														

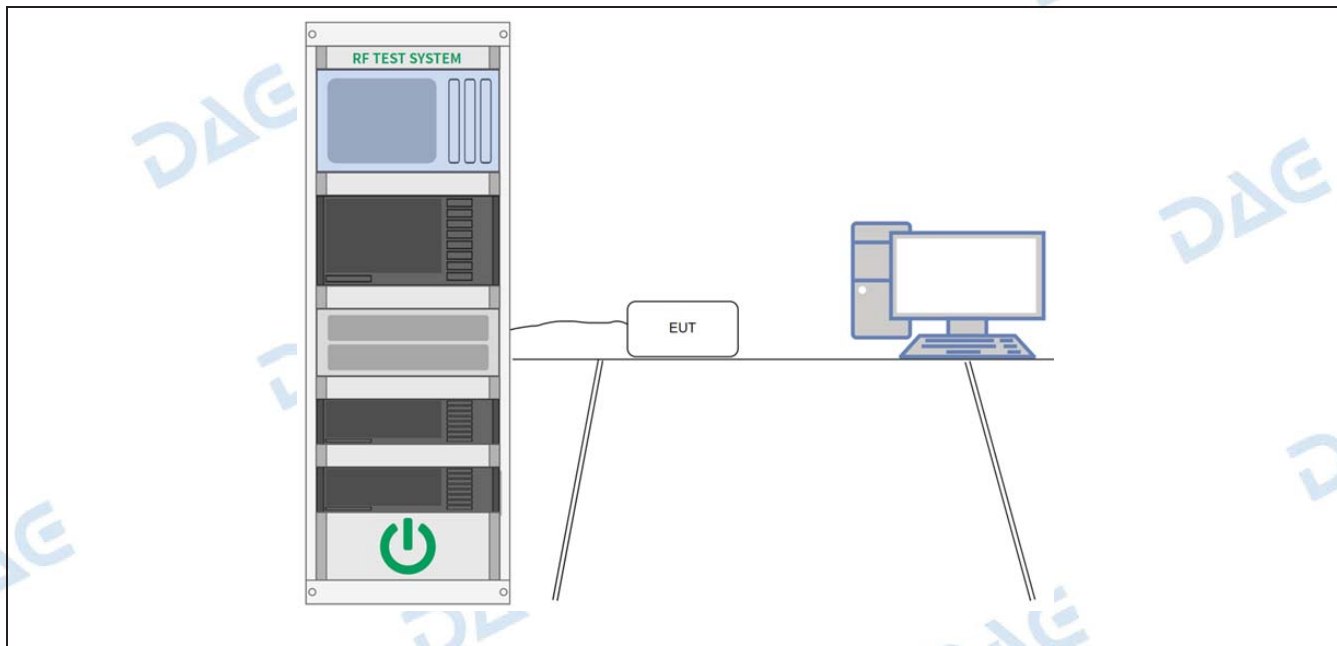
	Sweep Data Points:	1001 or greater
	Detector mode:	Sample
Procedure:	(1) After configuring the spectrum analyzer to [Setting 1], search for spurious emissions from 30 MHz to 12.5 GHz. If the sweep range does not cover the required measurement frequency range then the measurement range will need to be 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	

3.5.1 E.U.T. Operation:

Operating Environment:					
Temperature:	23.9 °C	Humidity:	53 %	Atmospheric Pressure:	101.6 kPa
Pretest mode:	TM1				

Final test mode:	TM1
------------------	-----

3.5.2 Test Setup Diagram:



3.5.3 Test Data:

Please Refer to Appendix for Details.

3.6 Adjacent Channel Emitted Power

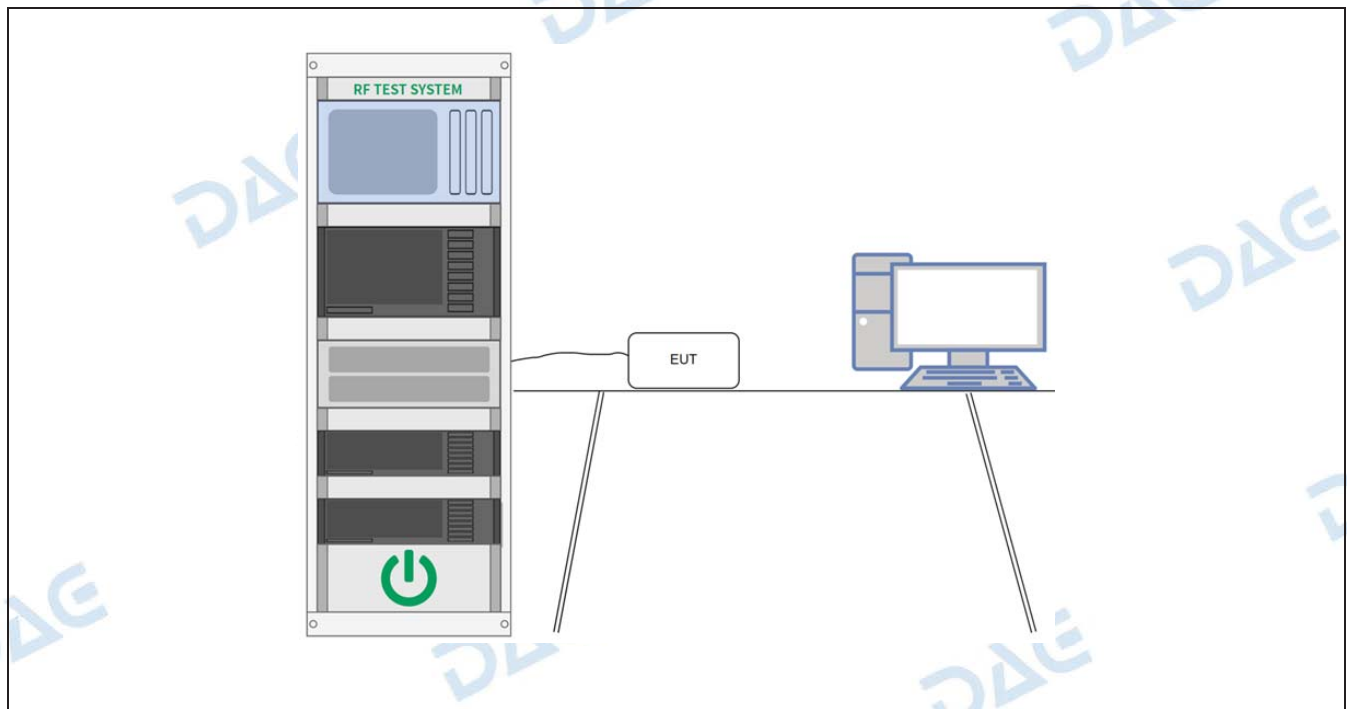
Test Requirement:	Article 2-1, Item 19-3
Test Limit:	For Bandwidth equal to 20MHz and 40MHz: $F_c \pm 20\text{MHz} : -25\text{dBc}$ $F_c \pm 40\text{MHz} : -40\text{dBc}$ For Bandwidth above 40MHz: $F_c \pm 80\text{MHz} : -25\text{dBc}$
Test Method:	Center Frequency: Test Frequency Span: (see Note1) 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
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

3.6.1 E.U.T. Operation:

Operating Environment:					
Temperature:	23.3 °C	Humidity:	46 %	Atmospheric Pressure:	101.6 kPa
Pretest mode:	TM1				
Final test mode:	TM1				

3.6.2 Test Setup Diagram:



3.6.3 Test Data:

Please Refer to Appendix for Details.

3.7 Spurious Emission Intensity

Test Requirement:	Article 2-1, Item 19-3																																																																																																																																																													
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 μV/MHz</td><td>5.142 MHz or less : 2.5 μV/MHz</td><td>5.141.6 MHz or less : 2.5 μV/MHz</td><td>5.123.2 MHz or less : 2.5 μV/MHz</td></tr><tr><td>5.142 - 5.150 MHz : 15 μV/MHz</td><td>5.142 - 5.150 MHz : 15 μV/MHz</td><td>5.141.6 - 5.150 MHz : 15 μV/MHz</td><td>5.123.2 - 5.150 MHz : 15 μV/MHz</td></tr><tr><td>5.250 - 5.251 MHz : $10^{-12} \cdot f^{+1}$ mW/MHz</td><td>5.250.2 - 5.251 MHz : $10^{-12} \cdot f^{+1}$ mW/MHz</td><td>5.250 - 5.251 MHz : $10^{-12} \cdot f^{+1}$ mW/MHz</td><td>5.250 - 5.251 MHz : $10^{-12} \cdot f^{+1}$ mW/MHz</td></tr><tr><td>5.251 - 5.260 MHz : $10^{-11} \cdot f^{+1}$ mW/MHz</td><td>5.251 - 5.260 MHz : $10^{-11} \cdot f^{+1}$ mW/MHz</td><td>5.251 - 5.270 MHz : $10^{-10} \cdot f^{+1}$ mW/MHz</td><td>5.251 - 5.290 MHz : $10^{-10} \cdot f^{+1}$ mW/MHz</td></tr><tr><td>5.260 - 5.266.7 MHz : $10^{-10} \cdot f^{+1}$ mW/MHz</td><td>5.260 - 5.266.7 MHz : $10^{-10} \cdot f^{+1}$ mW/MHz</td><td>5.270 - 5.278.4 MHz : $10^{-10} \cdot f^{+1}$ mW/MHz</td><td>5.290 - 5.296.7 MHz : $10^{-10} \cdot f^{+1}$ mW/MHz</td></tr><tr><td>5.266.7 MHz or more : 2.5 μV/MHz</td><td>5.266.7 MHz or more : 2.5 μV/MHz</td><td>5.278.4 MHz or more : 2.5 μV/MHz</td><td>5.296.7 MHz or more : 2.5 μV/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> <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 μV/MHz</td><td>5.233.3 MHz or less : 2.5 μV/MHz</td><td>5.221.6 MHz or less : 2.5 μV/MHz</td><td>5.203.3 MHz or less : 2.5 μV/MHz</td></tr><tr><td>5.233.3 - 5.240 MHz : $10^{-10} \cdot f^{+1}$ mW/MHz</td><td>5.233.3 - 5.240 MHz : $10^{-10} \cdot f^{+1}$ mW/MHz</td><td>5.221.6 - 5.230 MHz : $10^{-10} \cdot f^{+1}$ mW/MHz</td><td>5.203.3 - 5.210 MHz : $10^{-10} \cdot f^{+1}$ mW/MHz</td></tr><tr><td>5.240 - 5.249 MHz : $10^{-10} \cdot f^{+1}$ mW/MHz</td><td>5.240 - 5.249 MHz : $10^{-10} \cdot f^{+1}$ mW/MHz</td><td>5.230 - 5.249 MHz : $10^{-10} \cdot f^{+1}$ mW/MHz</td><td>5.210 - 5.249 MHz : $10^{-10} \cdot f^{+1}$ mW/MHz</td></tr><tr><td>5.249 - 5.250 MHz : $10^{-10} \cdot f^{+1}$ mW/MHz</td><td>5.249 - 5.250 MHz : $10^{-10} \cdot f^{+1}$ mW/MHz</td><td>5.249 - 5.250 MHz : $10^{-10} \cdot f^{+1}$ mW/MHz</td><td>5.249 - 5.250 MHz : $10^{-10} \cdot f^{+1}$ mW/MHz</td></tr><tr><td>5.350 MHz or more : 2.5 μV/MHz</td><td>5.249.8 - 5.250 MHz : $10^{-10} \cdot f^{+1}$ mW/MHz</td><td>5.350 - 5.358.4 MHz : 15 μV/MHz</td><td>5.350 - 5.378.8 MHz : 15 μV/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 5290 (MHz)</td></tr></table> <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 μV/MHz</td><td>5.460 MHz or less : 2.5 μV/MHz</td><td>5.460 MHz or less : 12.5 μV/MHz</td><td>5.460 MHz or less : 12.5 μV/MHz</td></tr><tr><td></td><td>5.460 - 5.470 MHz : 12.5 μV/MHz</td><td>5.460 - 5.470 MHz : 50 μV/MHz</td><td>5.460 - 5.469.5 MHz : 50 μV/MHz</td></tr><tr><td>5.730 MHz or more : 12.5 μV/MHz</td><td>5.745 - 5.765 MHz : 12.5 μV/MHz</td><td>5.770 MHz or more : 12.5 μV/MHz</td><td>5.469.5 - 5.470 MHz : 51.2 μV/MHz</td></tr><tr><td></td><td>Over 5.765 MHz : 2.5 μV/MHz</td><td></td><td>5.770 MHz or more : 12.5 μV/MHz</td></tr></table> <table><tr><th colspan="2">W52 + W53</th><th colspan="2">W56</th></tr><tr><th colspan="2">160MHz system</th><th colspan="2"></th></tr><tr><td>5.099.6 MHz or less : 2.5 μV/MHz</td><td>5.419.6 MHz or less : 12.5 μV/MHz</td><td colspan="2" rowspan="5">* A rated value is defined by the E.I.R.P. . * Measurement range: 30MHz to 26GHz</td></tr><tr><td>5.099.6 - 5.150 MHz : 15 μV/MHz</td><td>5.419.6 - 5.470 MHz : 50 μV/MHz</td></tr><tr><td>5.350 - 5.400.4 MHz : 15 μV/MHz</td><td>5.725 MHz or more : 12.5 μV/MHz</td></tr><tr><td>5.400.4 MHz or more : 2.5 μV/MHz</td><td></td></tr><tr><td></td><td></td></tr></table> <table><tr><th>5.21GHz & (5.53GHz, 5.61GHz or 5.69GHz)</th><th>5.29GHz & (5.53GHz, 5.61GHz or 5.69GHz)</th><th>5.53GHz & 5.69GHz</th></tr><tr><td colspan="3">80MHz + 80MHz system (Not adjacent radio)</td></tr><tr><td>5.134.8 MHz or less : 2.5 μV/MHz</td><td>5.214.8 MHz or less : 2.5 μV/MHz</td><td>5.419.6 MHz or less : 12.5 μV/MHz</td></tr><tr><td>5.134.8 - 5.150 MHz : 162.5 μV/MHz</td><td>5.214.8 - 5.249 MHz : $10^{-10} \cdot f^{+1}$ mW/MHz</td><td>5.419.6 - 5.470 MHz : 50 μV/MHz</td></tr><tr><td>5.250 - 5.251 MHz : $10^{-12} \cdot f^{+1}$ mW/MHz</td><td>5.249 - 5.250 MHz : $10^{-10} \cdot f^{+1}$ mW/MHz</td><td></td></tr><tr><td>5.251 - 5.265.2 MHz : $10^{-10} \cdot f^{+1}$ mW/MHz</td><td>5.350 - 5.365.2 MHz : 15 μV/MHz</td><td>5.770 MHz or more : 15 μV/MHz</td></tr><tr><td>5.265.2 - 5.370 MHz : 2.5 μV/MHz</td><td>5.365.2 - 5.410 MHz : 2.5 μV/MHz</td><td></td></tr><tr><td colspan="3">: 2.5 μV/MHz (When used)</td></tr><tr><td>5.370 - 5.454.8 MHz simultaneously with a 5.2GHz band high-power radio station : 12.5 μV/MHz</td><td>5.410 - 5.454.8 MHz : 2.5 μV/MHz</td><td></td></tr><tr><td colspan="3">: 15 μV/MHz (When used simultaneously)</td></tr><tr><td>5.454.8 - 5.470 MHz with a 5.2GHz band high-power radio station : 50 μV/MHz</td><td>5.454.8 - 5.470 MHz : 15 μV/MHz</td><td></td></tr><tr><td>5.730 MHz or more : 15 μV/MHz</td><td>5.730 MHz or more : 15 μV/MHz</td><td></td></tr><tr><td>5.770 MHz or more : 15 μV/MHz</td><td>5.770 MHz or more : 15 μV/MHz</td><td></td></tr><tr><td>f = MHz, Difference from 5210 (MHz)</td><td>f = MHz, Difference from 5230 (MHz)</td><td></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 μV/MHz	5.142 MHz or less : 2.5 μV/MHz	5.141.6 MHz or less : 2.5 μV/MHz	5.123.2 MHz or less : 2.5 μV/MHz	5.142 - 5.150 MHz : 15 μV/MHz	5.142 - 5.150 MHz : 15 μV/MHz	5.141.6 - 5.150 MHz : 15 μV/MHz	5.123.2 - 5.150 MHz : 15 μV/MHz	5.250 - 5.251 MHz : $10^{-12} \cdot f^{+1}$ mW/MHz	5.250.2 - 5.251 MHz : $10^{-12} \cdot f^{+1}$ mW/MHz	5.250 - 5.251 MHz : $10^{-12} \cdot f^{+1}$ mW/MHz	5.250 - 5.251 MHz : $10^{-12} \cdot f^{+1}$ mW/MHz	5.251 - 5.260 MHz : $10^{-11} \cdot f^{+1}$ mW/MHz	5.251 - 5.260 MHz : $10^{-11} \cdot f^{+1}$ mW/MHz	5.251 - 5.270 MHz : $10^{-10} \cdot f^{+1}$ mW/MHz	5.251 - 5.290 MHz : $10^{-10} \cdot f^{+1}$ mW/MHz	5.260 - 5.266.7 MHz : $10^{-10} \cdot f^{+1}$ mW/MHz	5.260 - 5.266.7 MHz : $10^{-10} \cdot f^{+1}$ mW/MHz	5.270 - 5.278.4 MHz : $10^{-10} \cdot f^{+1}$ mW/MHz	5.290 - 5.296.7 MHz : $10^{-10} \cdot f^{+1}$ mW/MHz	5.266.7 MHz or more : 2.5 μV/MHz	5.266.7 MHz or more : 2.5 μV/MHz	5.278.4 MHz or more : 2.5 μV/MHz	5.296.7 MHz or more : 2.5 μV/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		W53		OBW : 18MHz or less	OBW : 18 - 20 MHz	40MHz system	80MHz system	5.233.3 MHz or less : 2.5 μV/MHz	5.233.3 MHz or less : 2.5 μV/MHz	5.221.6 MHz or less : 2.5 μV/MHz	5.203.3 MHz or less : 2.5 μV/MHz	5.233.3 - 5.240 MHz : $10^{-10} \cdot f^{+1}$ mW/MHz	5.233.3 - 5.240 MHz : $10^{-10} \cdot f^{+1}$ mW/MHz	5.221.6 - 5.230 MHz : $10^{-10} \cdot f^{+1}$ mW/MHz	5.203.3 - 5.210 MHz : $10^{-10} \cdot f^{+1}$ mW/MHz	5.240 - 5.249 MHz : $10^{-10} \cdot f^{+1}$ mW/MHz	5.240 - 5.249 MHz : $10^{-10} \cdot f^{+1}$ mW/MHz	5.230 - 5.249 MHz : $10^{-10} \cdot f^{+1}$ mW/MHz	5.210 - 5.249 MHz : $10^{-10} \cdot f^{+1}$ mW/MHz	5.249 - 5.250 MHz : $10^{-10} \cdot f^{+1}$ mW/MHz	5.249 - 5.250 MHz : $10^{-10} \cdot f^{+1}$ mW/MHz	5.249 - 5.250 MHz : $10^{-10} \cdot f^{+1}$ mW/MHz	5.249 - 5.250 MHz : $10^{-10} \cdot f^{+1}$ mW/MHz	5.350 MHz or more : 2.5 μV/MHz	5.249.8 - 5.250 MHz : $10^{-10} \cdot f^{+1}$ mW/MHz	5.350 - 5.358.4 MHz : 15 μV/MHz	5.350 - 5.378.8 MHz : 15 μV/MHz	f = MHz, Difference from 5260 (MHz)	f = MHz, Difference from 5260 (MHz)	f = MHz, Difference from 5270 (MHz)	f = MHz, Difference from 5290 (MHz)	20MHz system		W56		DSSS, etc.	OFDM	40MHz system	80MHz system	5.470 MHz or less : 12.5 μV/MHz	5.460 MHz or less : 2.5 μV/MHz	5.460 MHz or less : 12.5 μV/MHz	5.460 MHz or less : 12.5 μV/MHz		5.460 - 5.470 MHz : 12.5 μV/MHz	5.460 - 5.470 MHz : 50 μV/MHz	5.460 - 5.469.5 MHz : 50 μV/MHz	5.730 MHz or more : 12.5 μV/MHz	5.745 - 5.765 MHz : 12.5 μV/MHz	5.770 MHz or more : 12.5 μV/MHz	5.469.5 - 5.470 MHz : 51.2 μV/MHz		Over 5.765 MHz : 2.5 μV/MHz		5.770 MHz or more : 12.5 μV/MHz	W52 + W53		W56		160MHz system				5.099.6 MHz or less : 2.5 μV/MHz	5.419.6 MHz or less : 12.5 μV/MHz	* A rated value is defined by the E.I.R.P. . * Measurement range: 30MHz to 26GHz		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)	5.53GHz & 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 : $10^{-10} \cdot f^{+1}$ mW/MHz	5.419.6 - 5.470 MHz : 50 μV/MHz	5.250 - 5.251 MHz : $10^{-12} \cdot f^{+1}$ mW/MHz	5.249 - 5.250 MHz : $10^{-10} \cdot f^{+1}$ mW/MHz		5.251 - 5.265.2 MHz : $10^{-10} \cdot f^{+1}$ mW/MHz	5.350 - 5.365.2 MHz : 15 μV/MHz	5.770 MHz or more : 15 μV/MHz	5.265.2 - 5.370 MHz : 2.5 μV/MHz	5.365.2 - 5.410 MHz : 2.5 μV/MHz		: 2.5 μV/MHz (When used)			5.370 - 5.454.8 MHz simultaneously with a 5.2GHz band high-power radio station : 12.5 μV/MHz	5.410 - 5.454.8 MHz : 2.5 μV/MHz		: 15 μV/MHz (When used simultaneously)			5.454.8 - 5.470 MHz 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		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 5230 (MHz)	
20MHz system		W52																																																																																																																																																												
OBW : 18MHz or less	OBW : 18 - 20 MHz	40MHz system	80MHz system																																																																																																																																																											
5.142 MHz or less : 2.5 μV/MHz	5.142 MHz or less : 2.5 μV/MHz	5.141.6 MHz or less : 2.5 μV/MHz	5.123.2 MHz or less : 2.5 μV/MHz																																																																																																																																																											
5.142 - 5.150 MHz : 15 μV/MHz	5.142 - 5.150 MHz : 15 μV/MHz	5.141.6 - 5.150 MHz : 15 μV/MHz	5.123.2 - 5.150 MHz : 15 μV/MHz																																																																																																																																																											
5.250 - 5.251 MHz : $10^{-12} \cdot f^{+1}$ mW/MHz	5.250.2 - 5.251 MHz : $10^{-12} \cdot f^{+1}$ mW/MHz	5.250 - 5.251 MHz : $10^{-12} \cdot f^{+1}$ mW/MHz	5.250 - 5.251 MHz : $10^{-12} \cdot f^{+1}$ mW/MHz																																																																																																																																																											
5.251 - 5.260 MHz : $10^{-11} \cdot f^{+1}$ mW/MHz	5.251 - 5.260 MHz : $10^{-11} \cdot f^{+1}$ mW/MHz	5.251 - 5.270 MHz : $10^{-10} \cdot f^{+1}$ mW/MHz	5.251 - 5.290 MHz : $10^{-10} \cdot f^{+1}$ mW/MHz																																																																																																																																																											
5.260 - 5.266.7 MHz : $10^{-10} \cdot f^{+1}$ mW/MHz	5.260 - 5.266.7 MHz : $10^{-10} \cdot f^{+1}$ mW/MHz	5.270 - 5.278.4 MHz : $10^{-10} \cdot f^{+1}$ mW/MHz	5.290 - 5.296.7 MHz : $10^{-10} \cdot f^{+1}$ mW/MHz																																																																																																																																																											
5.266.7 MHz or more : 2.5 μV/MHz	5.266.7 MHz or more : 2.5 μV/MHz	5.278.4 MHz or more : 2.5 μV/MHz	5.296.7 MHz or more : 2.5 μV/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		W53																																																																																																																																																												
OBW : 18MHz or less	OBW : 18 - 20 MHz	40MHz system	80MHz system																																																																																																																																																											
5.233.3 MHz or less : 2.5 μV/MHz	5.233.3 MHz or less : 2.5 μV/MHz	5.221.6 MHz or less : 2.5 μV/MHz	5.203.3 MHz or less : 2.5 μV/MHz																																																																																																																																																											
5.233.3 - 5.240 MHz : $10^{-10} \cdot f^{+1}$ mW/MHz	5.233.3 - 5.240 MHz : $10^{-10} \cdot f^{+1}$ mW/MHz	5.221.6 - 5.230 MHz : $10^{-10} \cdot f^{+1}$ mW/MHz	5.203.3 - 5.210 MHz : $10^{-10} \cdot f^{+1}$ mW/MHz																																																																																																																																																											
5.240 - 5.249 MHz : $10^{-10} \cdot f^{+1}$ mW/MHz	5.240 - 5.249 MHz : $10^{-10} \cdot f^{+1}$ mW/MHz	5.230 - 5.249 MHz : $10^{-10} \cdot f^{+1}$ mW/MHz	5.210 - 5.249 MHz : $10^{-10} \cdot f^{+1}$ mW/MHz																																																																																																																																																											
5.249 - 5.250 MHz : $10^{-10} \cdot f^{+1}$ mW/MHz	5.249 - 5.250 MHz : $10^{-10} \cdot f^{+1}$ mW/MHz	5.249 - 5.250 MHz : $10^{-10} \cdot f^{+1}$ mW/MHz	5.249 - 5.250 MHz : $10^{-10} \cdot f^{+1}$ mW/MHz																																																																																																																																																											
5.350 MHz or more : 2.5 μV/MHz	5.249.8 - 5.250 MHz : $10^{-10} \cdot f^{+1}$ mW/MHz	5.350 - 5.358.4 MHz : 15 μV/MHz	5.350 - 5.378.8 MHz : 15 μV/MHz																																																																																																																																																											
f = MHz, Difference from 5260 (MHz)	f = MHz, Difference from 5260 (MHz)	f = MHz, Difference from 5270 (MHz)	f = MHz, Difference from 5290 (MHz)																																																																																																																																																											
20MHz system		W56																																																																																																																																																												
DSSS, etc.	OFDM	40MHz system	80MHz system																																																																																																																																																											
5.470 MHz or less : 12.5 μV/MHz	5.460 MHz or less : 2.5 μV/MHz	5.460 MHz or less : 12.5 μV/MHz	5.460 MHz or less : 12.5 μV/MHz																																																																																																																																																											
	5.460 - 5.470 MHz : 12.5 μV/MHz	5.460 - 5.470 MHz : 50 μV/MHz	5.460 - 5.469.5 MHz : 50 μV/MHz																																																																																																																																																											
5.730 MHz or more : 12.5 μV/MHz	5.745 - 5.765 MHz : 12.5 μV/MHz	5.770 MHz or more : 12.5 μV/MHz	5.469.5 - 5.470 MHz : 51.2 μV/MHz																																																																																																																																																											
	Over 5.765 MHz : 2.5 μV/MHz		5.770 MHz or more : 12.5 μV/MHz																																																																																																																																																											
W52 + W53		W56																																																																																																																																																												
160MHz system																																																																																																																																																														
5.099.6 MHz or less : 2.5 μV/MHz	5.419.6 MHz or less : 12.5 μV/MHz	* A rated value is defined by the E.I.R.P. . * Measurement range: 30MHz to 26GHz																																																																																																																																																												
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)	5.53GHz & 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 : $10^{-10} \cdot f^{+1}$ mW/MHz	5.419.6 - 5.470 MHz : 50 μV/MHz																																																																																																																																																												
5.250 - 5.251 MHz : $10^{-12} \cdot f^{+1}$ mW/MHz	5.249 - 5.250 MHz : $10^{-10} \cdot f^{+1}$ mW/MHz																																																																																																																																																													
5.251 - 5.265.2 MHz : $10^{-10} \cdot f^{+1}$ mW/MHz	5.350 - 5.365.2 MHz : 15 μV/MHz	5.770 MHz or more : 15 μV/MHz																																																																																																																																																												
5.265.2 - 5.370 MHz : 2.5 μV/MHz	5.365.2 - 5.410 MHz : 2.5 μV/MHz																																																																																																																																																													
: 2.5 μV/MHz (When used)																																																																																																																																																														
5.370 - 5.454.8 MHz simultaneously with a 5.2GHz band high-power radio station : 12.5 μV/MHz	5.410 - 5.454.8 MHz : 2.5 μV/MHz																																																																																																																																																													
: 15 μV/MHz (When used simultaneously)																																																																																																																																																														
5.454.8 - 5.470 MHz 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																																																																																																																																																													
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 5230 (MHz)																																																																																																																																																													
Test Method:	<table><tr><td colspan="2">[Setting 1]</td></tr><tr><td>Frequency range:</td><td>Test frequency range as required</td></tr><tr><td>RBW:</td><td>1 MHz</td></tr><tr><td>VBW:</td><td>1 MHz</td></tr><tr><td>Sweep time:</td><td>Minimum time required to make an accurate measurement</td></tr><tr><td>Sweep Data Points:</td><td>1001 or greater</td></tr><tr><td>Detector mode:</td><td>Positive peak</td></tr><tr><td>Indication mode:</td><td>Max hold (see Note 1)</td></tr><tr><td>Note 1:</td><td>Sweep shall be repeated until the max hold waveform is stable.</td></tr><tr><td colspan="2"> </td></tr><tr><td colspan="2">[Setting 2]</td></tr><tr><td>Center frequency:</td><td>Frequency of spurious emission found using [Setting 1]</td></tr><tr><td>Span:</td><td>0 Hz</td></tr><tr><td>RBW:</td><td>1 MHz</td></tr><tr><td>VBW:</td><td>1 MHz</td></tr><tr><td>Sweep time:</td><td>Minimum time required to make an accurate measurement. For burst type (intermittent) spurious emissions, sweep time shall be greater than one burst interval</td></tr></table>				[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																																																																																																																										
[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																																																																																																																																																													

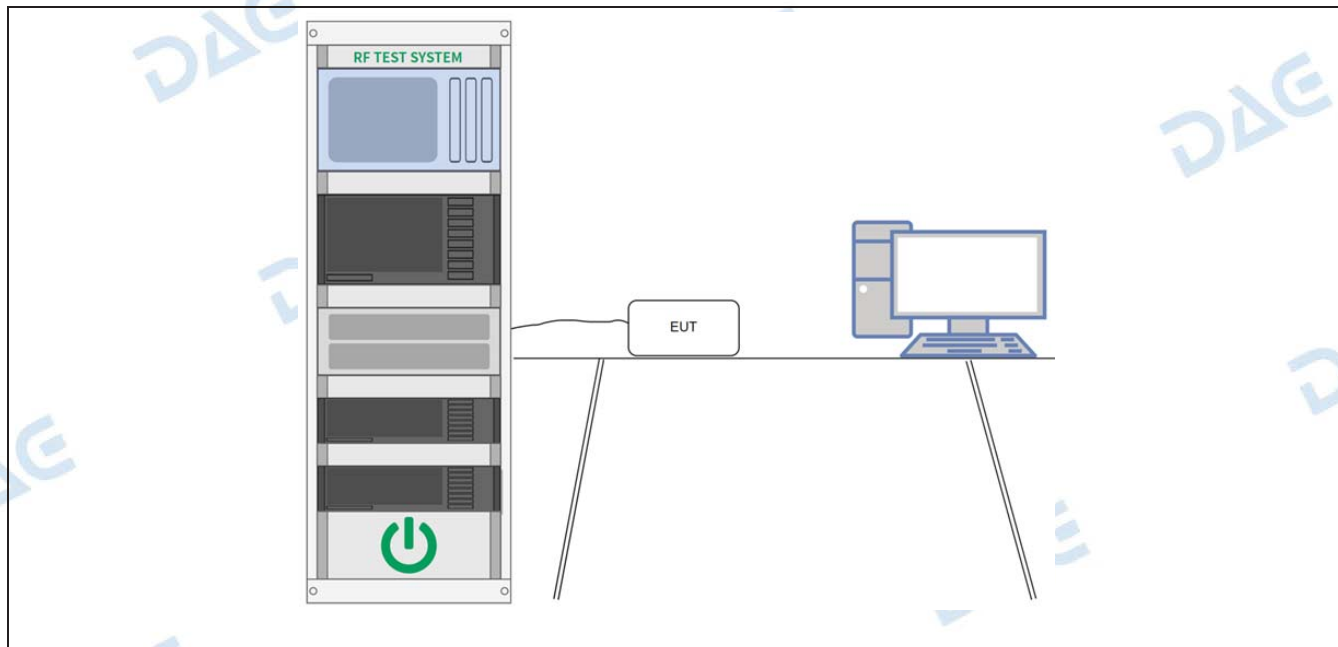
	Sweep Data Points:	1001 or greater
	Detector mode:	Sample
Procedure:	(1) After configuring the spectrum analyzer to [Setting 1], search for spurious emissions from 30 MHz to 12.5 GHz. If the sweep range does not cover the required measurement frequency range then the measurement range will need to be 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	

3.7.1 E.U.T. Operation:

Operating Environment:

Temperature:	23.1 °C	Humidity:	54 %	Atmospheric Pressure:	101.6 kPa
Pretest mode:	TM1				
Final test mode:	TM1				

3.7.2 Test Setup Diagram:



3.7.3 Test Data:

Please Refer to Appendix for Details.

3.8 Secondary Radiated Emissions

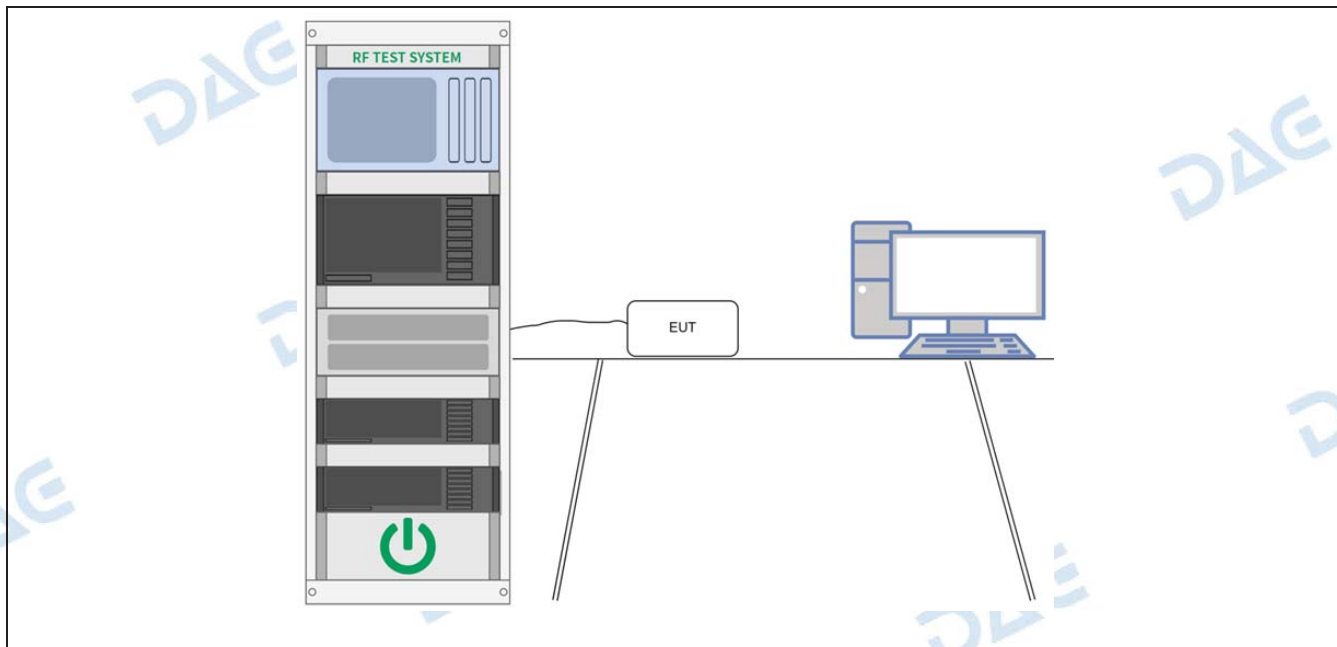
Test Requirement:	Article 2-1, Item 19-3																																												
Test Limit:	(1) Below 1 GHz: 4 nW (-54dBm) or less (2) Above 1 GHz: 20 nW (-47dBm) or less																																												
Test Method:	<table><tr><td colspan="2">[Setting 1]</td></tr><tr><td>Frequency range:</td><td>30 MHz ~ 12.5 GHz</td></tr><tr><td>RBW:</td><td>Below 1 GHz:100 kHz</td></tr><tr><td></td><td>Above 1 GHz:1 MHz</td></tr><tr><td>VBW:</td><td>Below 1 GHz:100 kHz</td></tr><tr><td></td><td>Above 1 GHz:1 MHz</td></tr><tr><td>Sweep time:</td><td>Auto</td></tr><tr><td>Sweep data points:</td><td>1001 or greater</td></tr><tr><td>Detector mode:</td><td>Positive peak</td></tr><tr><td>Indication mode:</td><td>Max hold</td></tr><tr><td colspan="2"></td></tr><tr><td colspan="2">[Setting 2]</td></tr><tr><td>Center Frequency:</td><td>Frequency of spurious emission found using [Setting 1]</td></tr><tr><td>Span:</td><td>0 Hz</td></tr><tr><td>RBW:</td><td>Below 1 GHz:100 kHz</td></tr><tr><td></td><td>Above 1 GHz:1 MHz</td></tr><tr><td>VBW:</td><td>Below 1 GHz:100 kHz</td></tr><tr><td></td><td>Above 1 GHz:1 MHz</td></tr><tr><td>Sweep time:</td><td>Auto</td></tr><tr><td>Sweep data points:</td><td>1001 or greater</td></tr><tr><td>Detector mode:</td><td>Sample</td></tr></table>			[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
[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																																												
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																																												

3.8.1 E.U.T. Operation:

Operating Environment:					
Temperature:	23.8 °C	Humidity:	48 %	Atmospheric Pressure:	101.6 kPa

Pretest mode:	TM2
Final test mode:	TM2

3.8.2 Test Setup Diagram:



3.8.3 Test Data:

Please Refer to Appendix for Details.

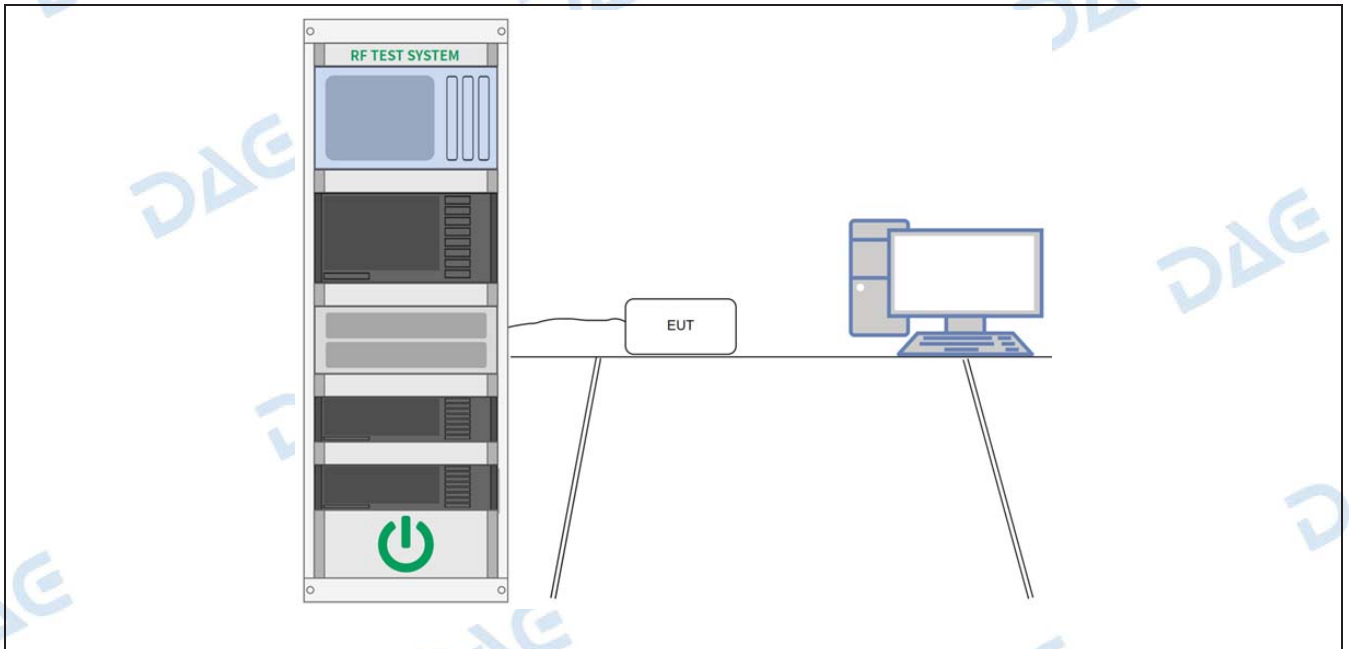
3.9 Carrier Sensing 1

Test Requirement:	Article 2-1, Item 19-3		
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.		
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	
	RBW:	1 MHz	
	VBW:	1 MHz	
	Trigger:	Free running	
	Detector:	Positive peak	
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		

3.9.1 E.U.T. Operation:

Operating Environment:					
Temperature:	23.5 °C	Humidity:	52 %	Atmospheric Pressure:	101.6 kPa
Pretest mode:	TM1				
Final test mode:	TM1				

3.9.2 Test Setup Diagram:



3.9.3 Test Data:

Please Refer to Appendix for Details.

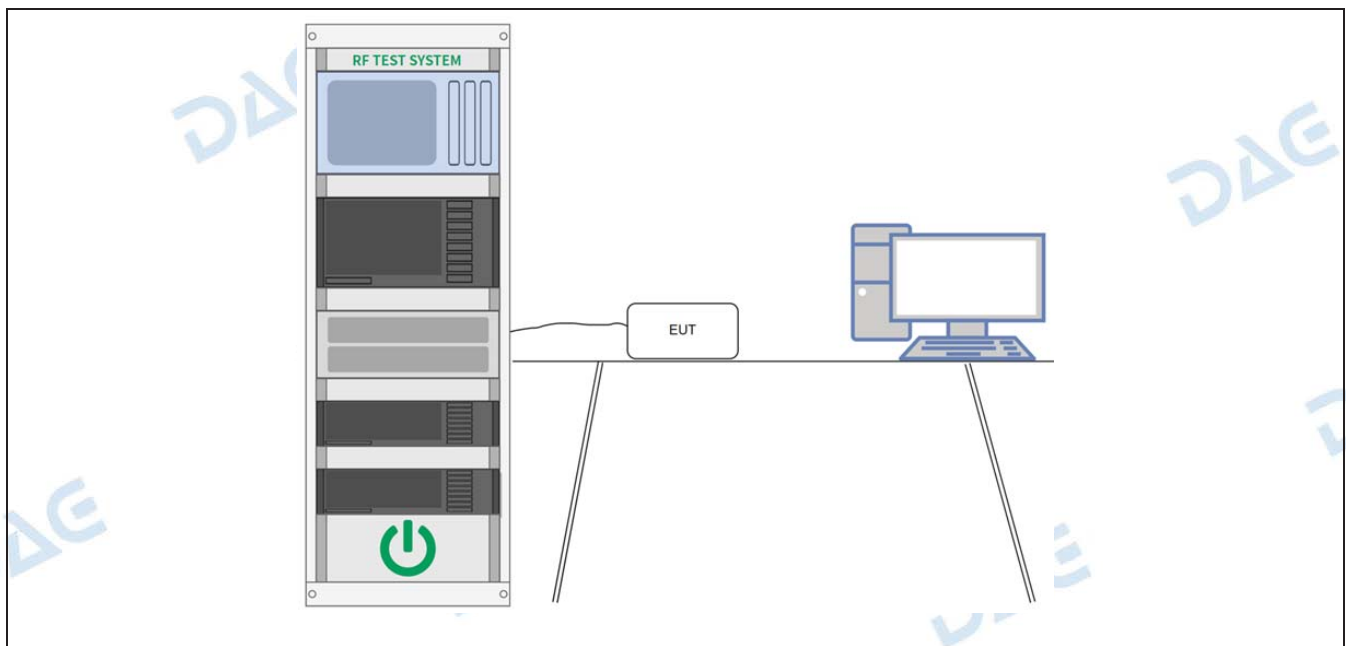
3.10 Interference Prevention Function

Test Requirement:	Article 2-1, Item 19-3
Test Limit:	The EUT shall support one of the following functions: - Automatic identification transmission - Automatic identification reception
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.
Procedure:	(1) For EUTs capable of automatically transmitting identification data a. Transmit identification data from EUT to Demodulator b. Confirm identification data is correctly received by Demodulator (2) For EUTs capable of automatically receiving identification data a. Transmit identification data from Link Partner to EUT b. Confirm communication link is established c. Link Partner shall respond by transmitting different identification data back to the EUT d. Confirm EUT stops transmitting, or confirm EUT recognizes that the two identification data are different

3.10.1 E.U.T. Operation:

Operating Environment:					
Temperature:	22.2 °C	Humidity:	52 %	Atmospheric Pressure:	101.6 kPa
Pretest mode:	TM1				
Final test mode:	TM1				

3.10.2 Test Setup Diagram:



3.10.3 Test Data:

Please Refer to Appendix for Details.

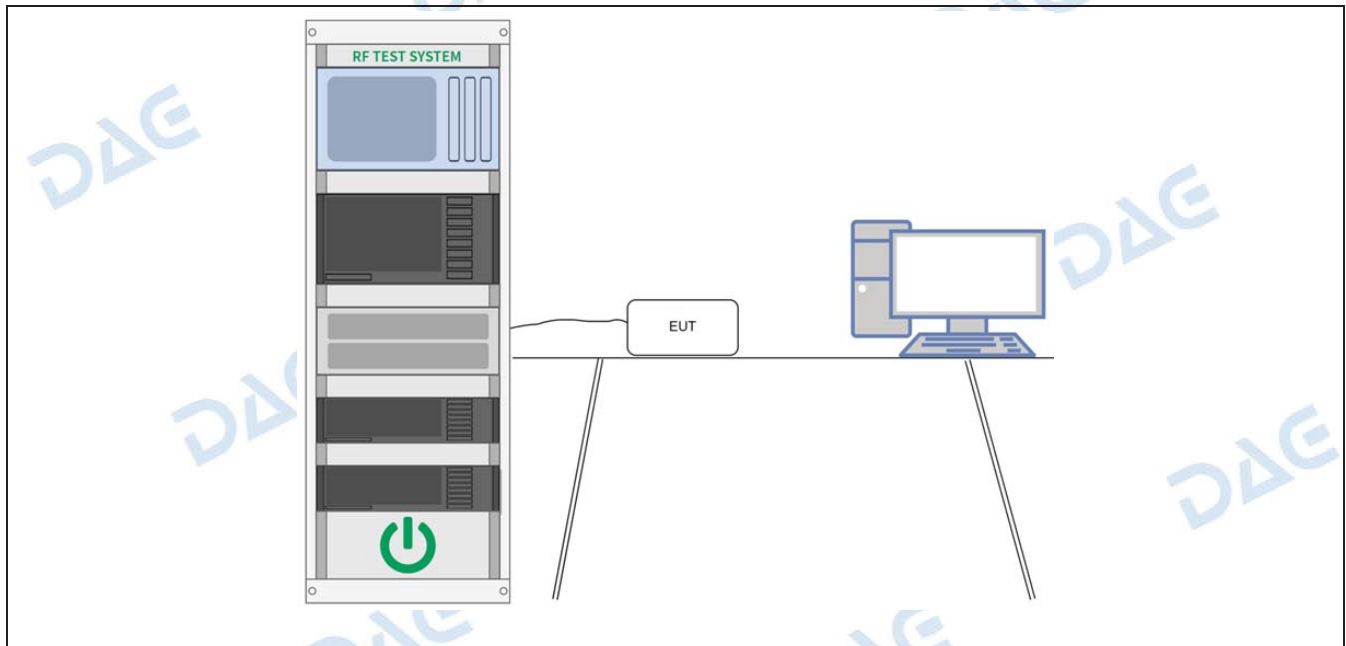
3.11 Transmission Burst Length

Test Requirement:	Article 2-1, Item 19-3
Test Limit:	8ms or less
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
Procedure:	Configure the spectrum analyzer to [Setting 1] and then search the max pulse, and measure the transmission time.

3.11.1 E.U.T. Operation:

Operating Environment:					
Temperature:	23 °C	Humidity:	48 %	Atmospheric Pressure:	101.6 kPa
Pretest mode:	TM1				
Final test mode:	TM1				

3.11.2 Test Setup Diagram:



3.11.3 Test Data:

Please Refer to Appendix for Details.

4 TEST SETUP PHOTOS



5 PHOTOS OF THE EUT

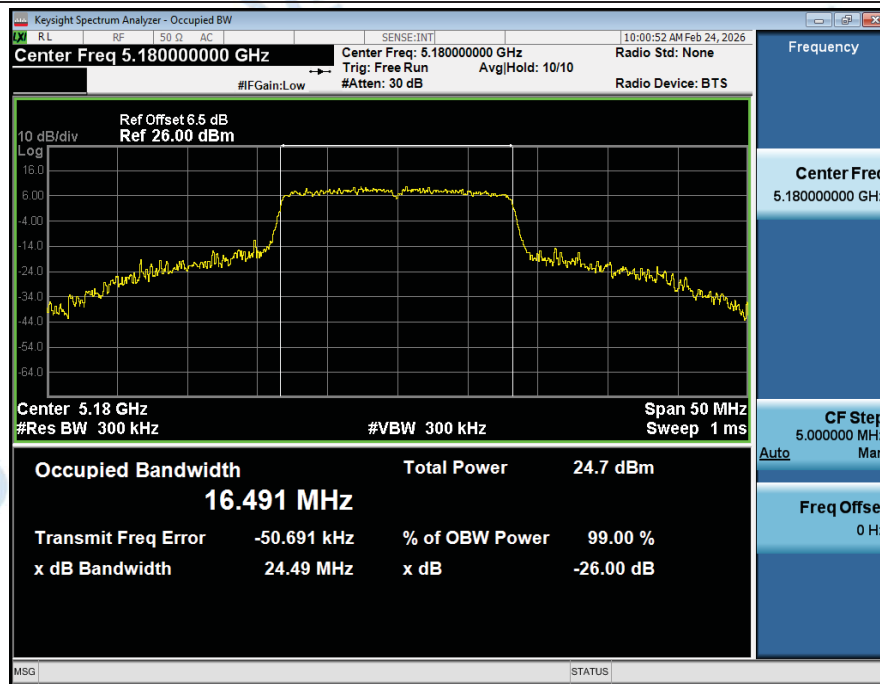
Refer to Appendix - EUT Photos for EUT External Photo and Internal Photo.

Appendix

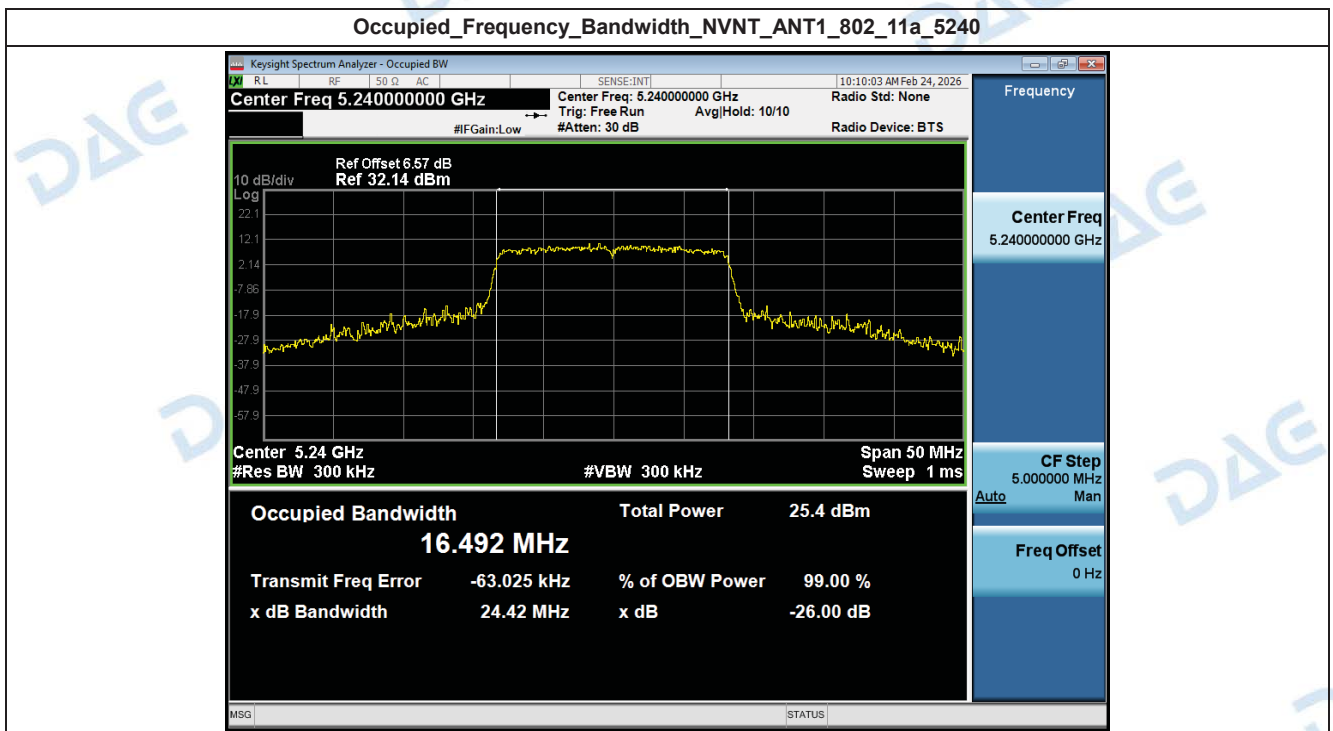
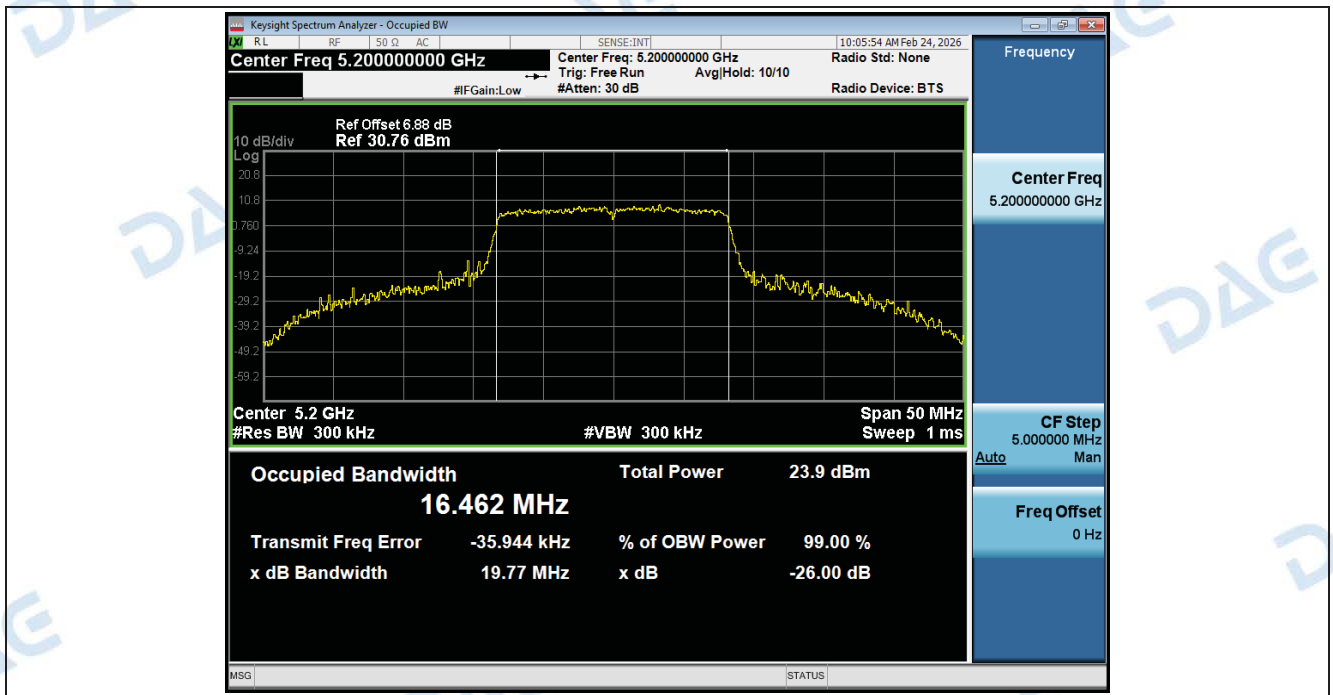
1. Occupied Frequency Bandwidth

Condition	Antenna	Mode	Frequency(MHz)	Occupied Bandwidth(MHz)	Limit(MHz)	Result
NVNT	ANT1	802.11a	5180.00	16.49	20	Pass
NVNT	ANT1	802.11a	5200.00	16.46	20	Pass
NVNT	ANT1	802.11a	5240.00	16.49	20	Pass
NVNT	ANT1	802.11n(HT20)	5180.00	17.58	20	Pass
NVNT	ANT1	802.11n(HT20)	5200.00	17.66	20	Pass
NVNT	ANT1	802.11n(HT20)	5240.00	17.61	20	Pass
NVNT	ANT1	802.11ac(VHT20)	5180.00	17.59	20	Pass
NVNT	ANT1	802.11ac(VHT20)	5200.00	17.63	20	Pass
NVNT	ANT1	802.11ac(VHT20)	5240.00	17.62	20	Pass
NVNT	ANT1	802.11n(HT40)	5190.00	35.95	40	Pass
NVNT	ANT1	802.11n(HT40)	5230.00	35.83	40	Pass
NVNT	ANT1	802.11ac(VHT40)	5190.00	35.97	40	Pass
NVNT	ANT1	802.11ac(VHT40)	5230.00	35.88	40	Pass
NVNT	ANT1	802.11ac(VHT80)	5210.00	75.24	80	Pass

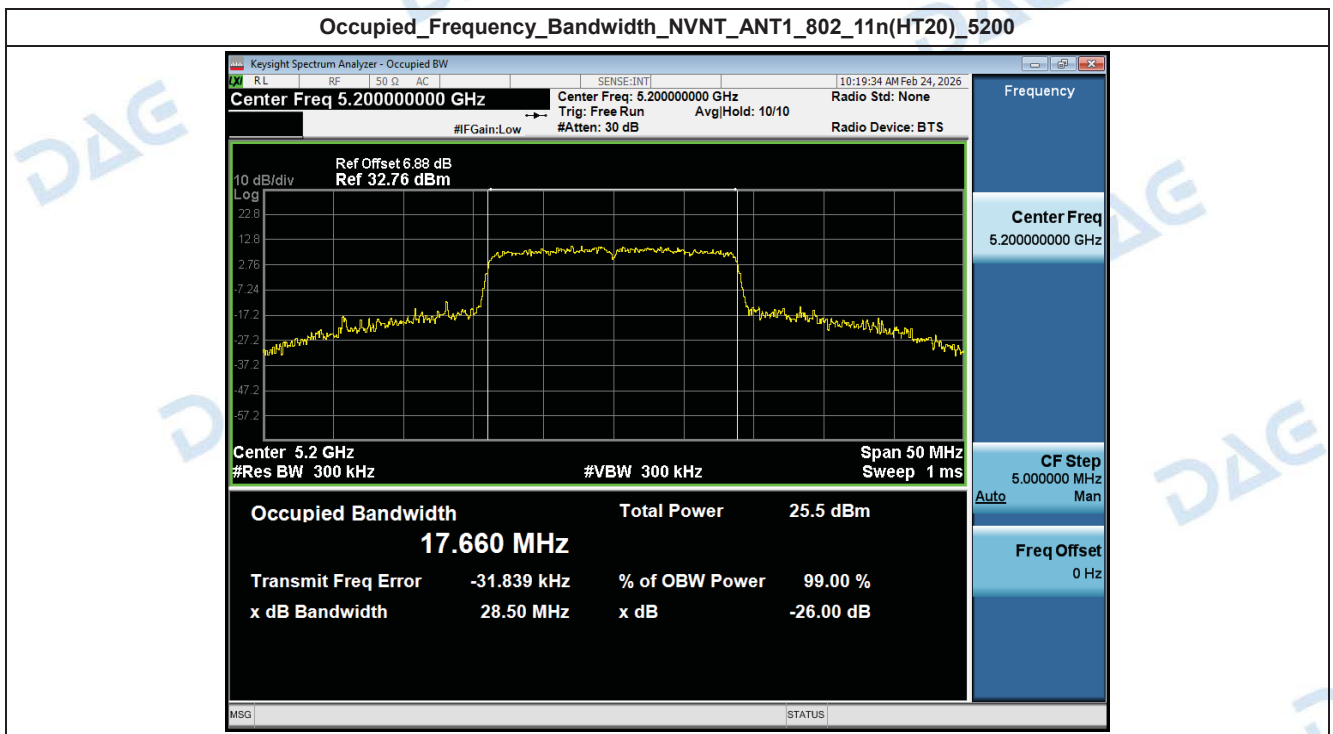
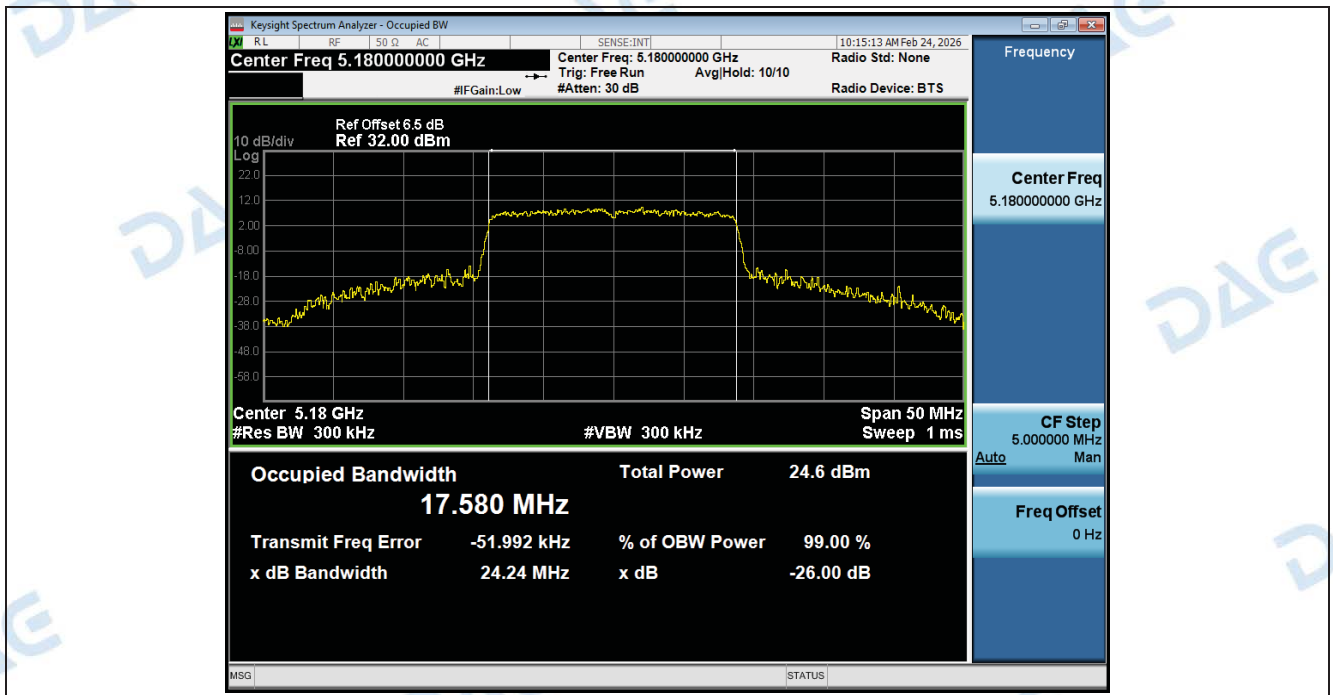
Occupied_Frequency_Bandwidth_NVNT_ANT1_802_11a_5180



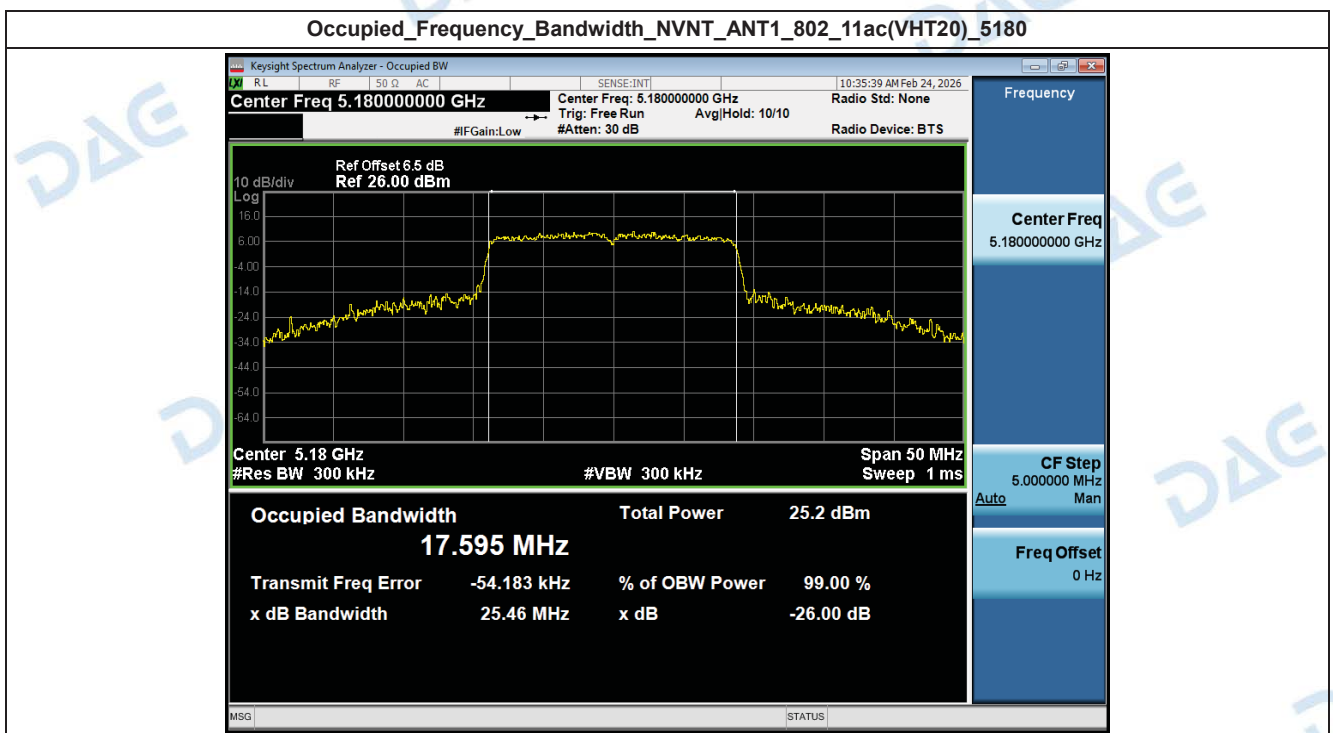
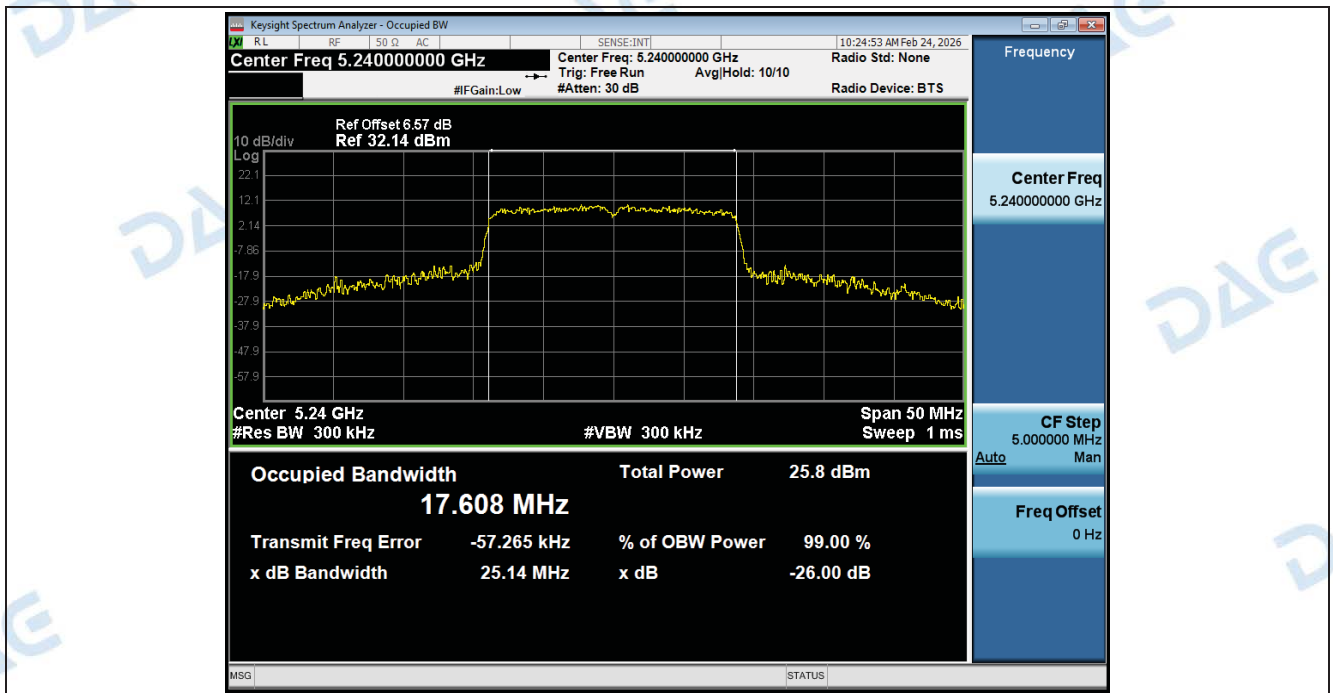
Occupied_Frequency_Bandwidth_NVNT_ANT1_802_11a_5200



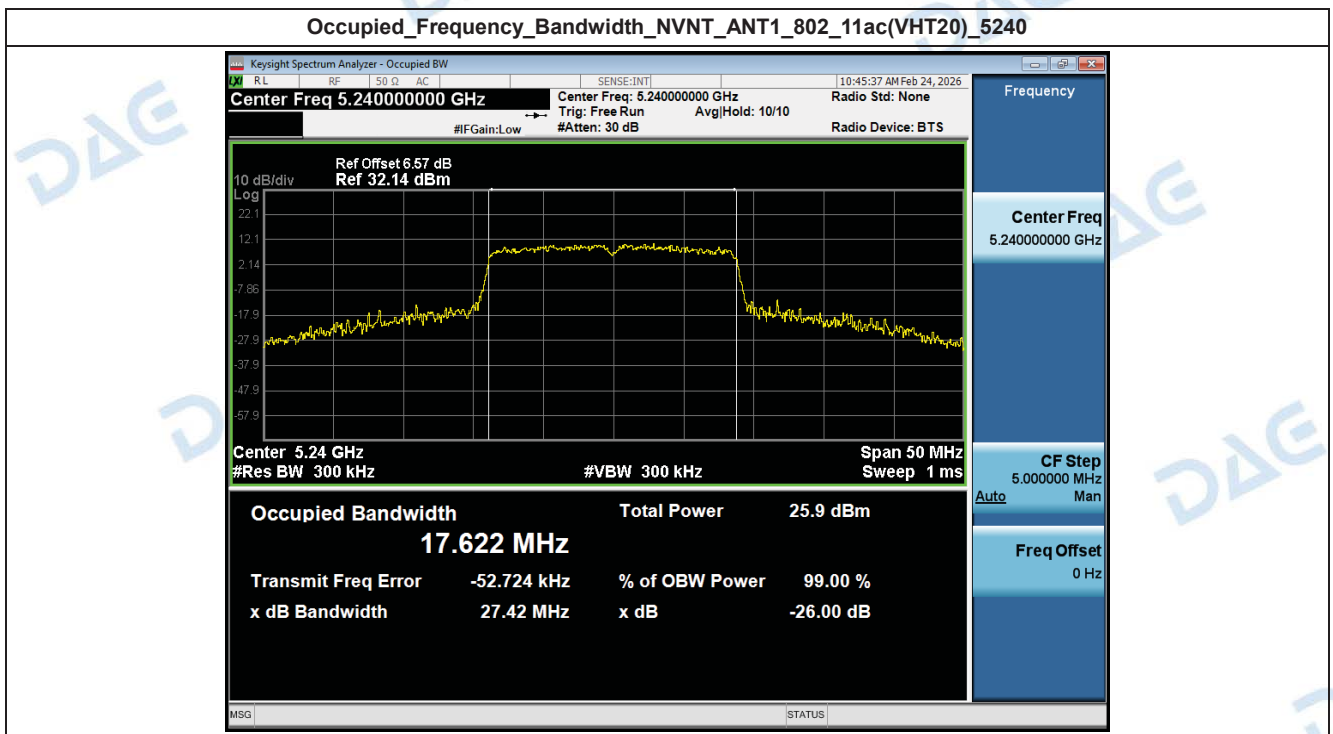
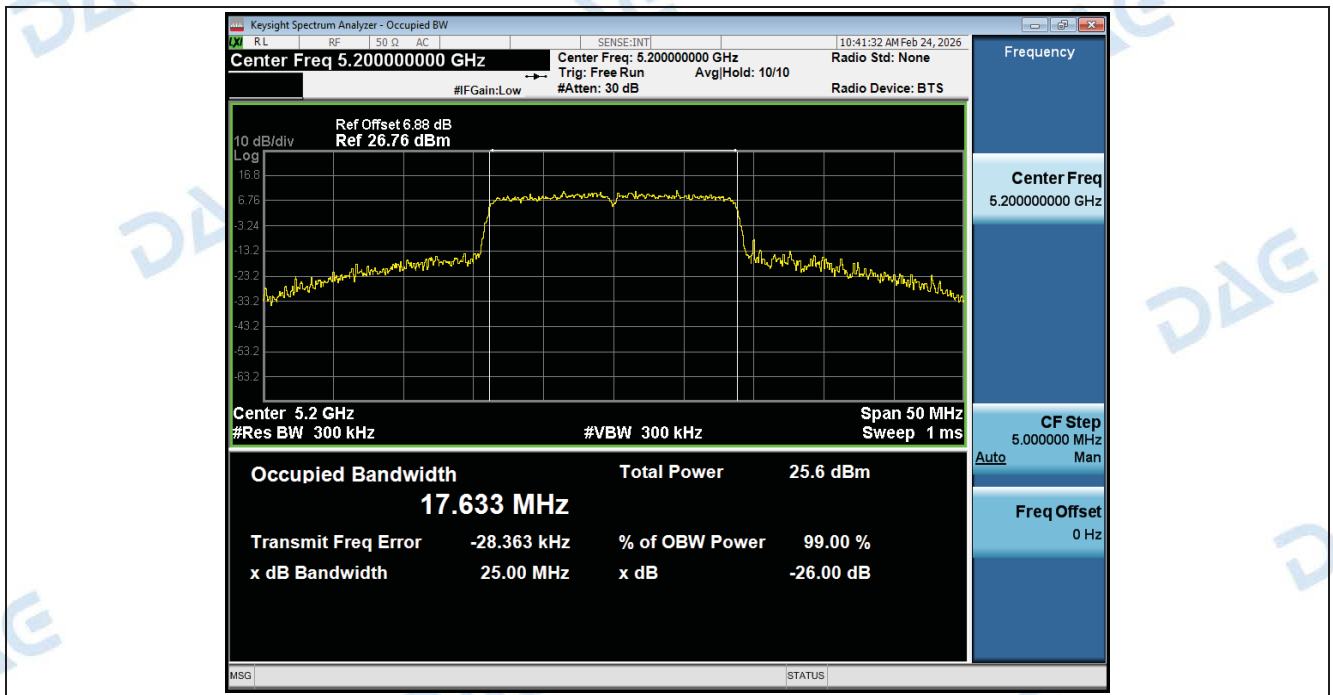
Occupied_Frequency_Bandwidth_NVNT_ANT1_802_11n(HT20)_5180



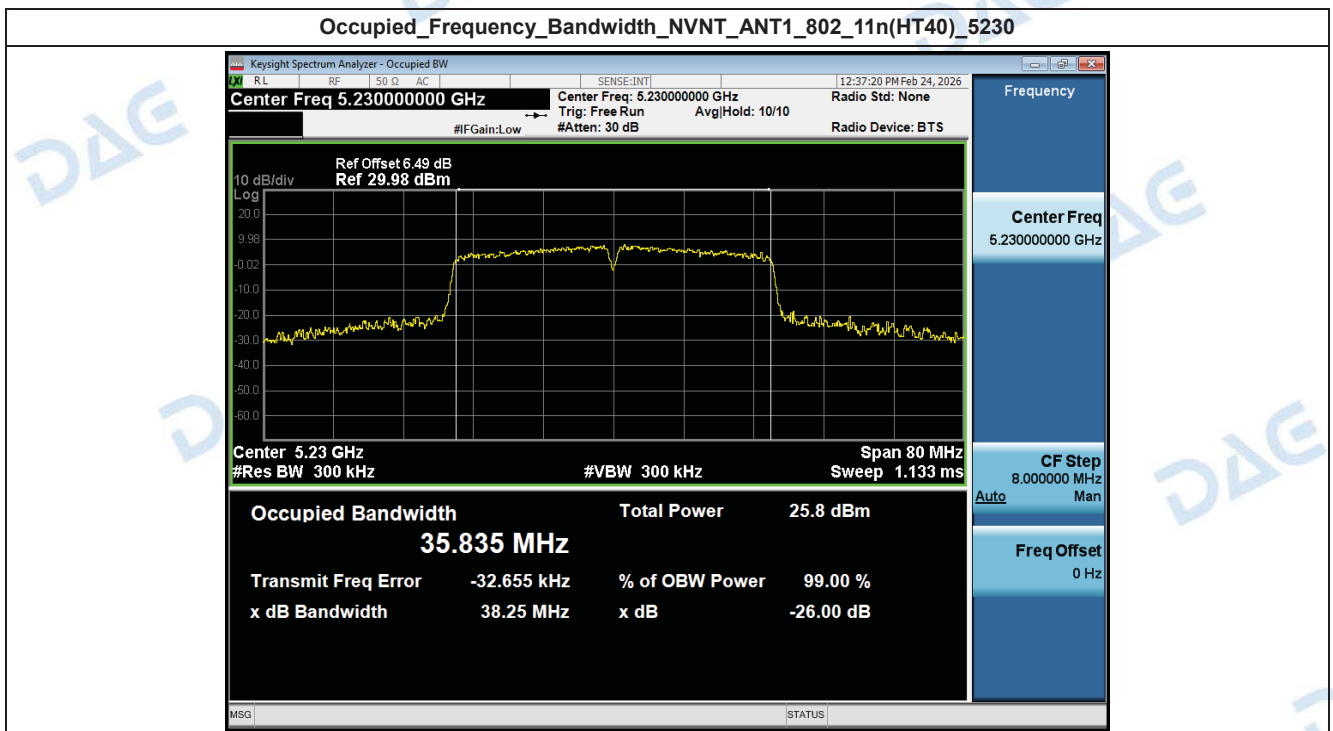
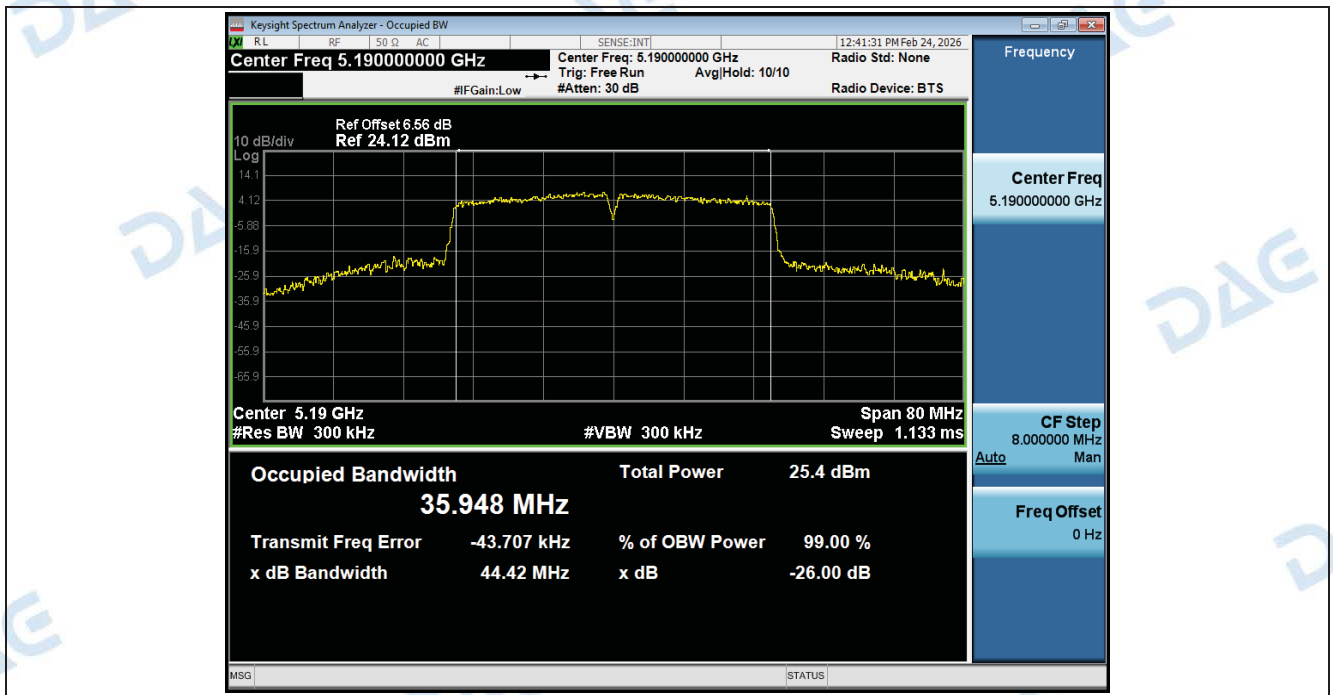
Occupied_Frequency_Bandwidth_NVNT_ANT1_802_11n(HT20)_5240



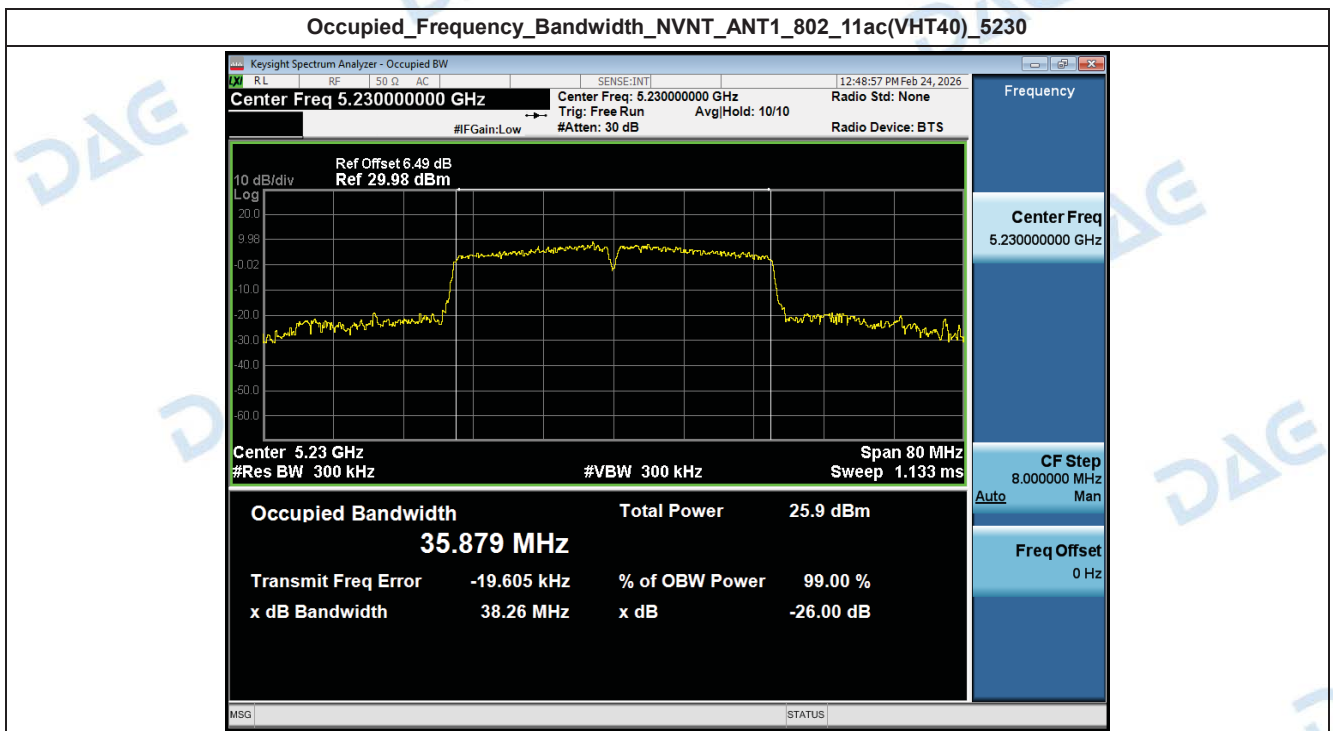
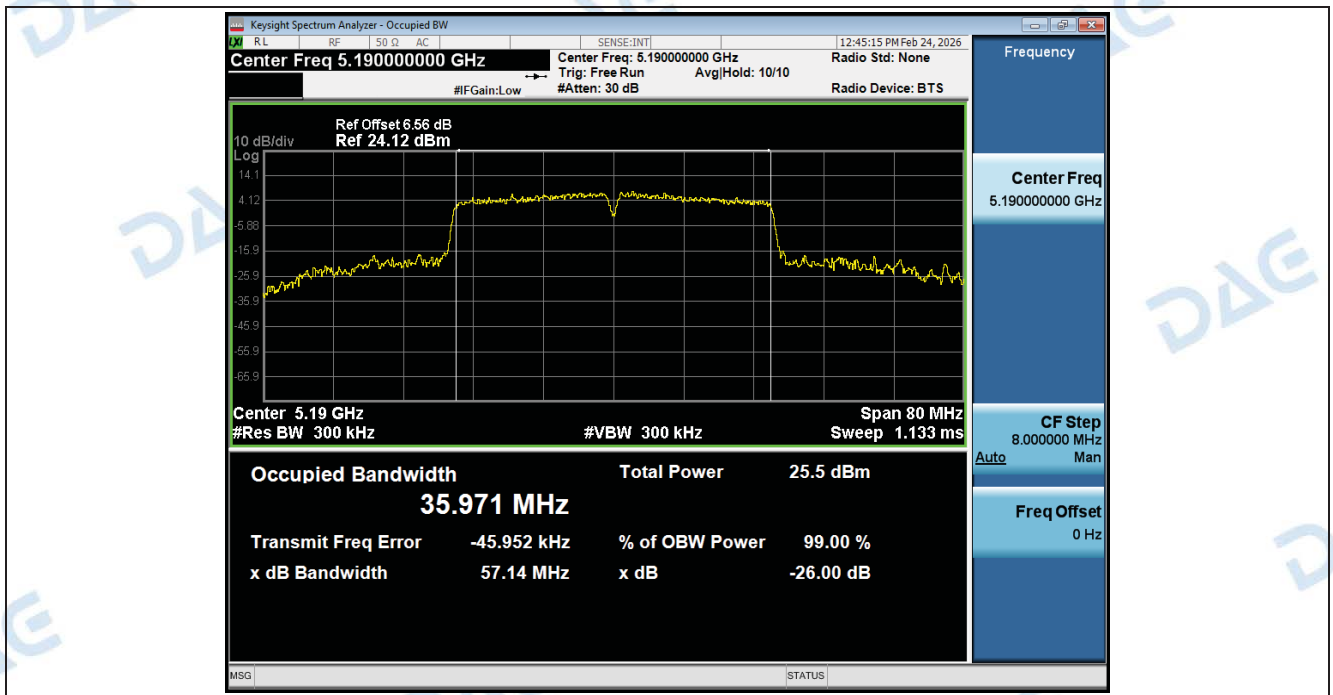
Occupied_Frequency_Bandwidth_NVNT_ANT1_802_11ac(VHT20)_5200



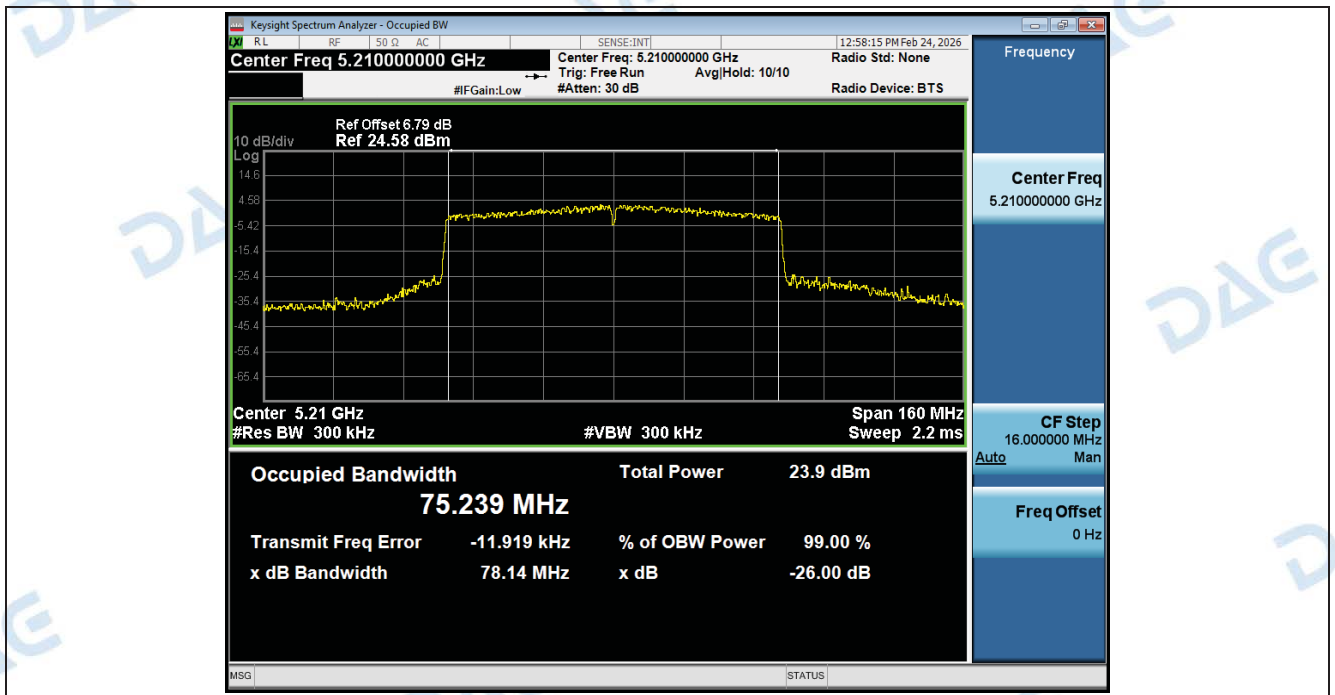
Occupied_Frequency_Bandwidth_NVNT_ANT1_802_11n(HT40)_5190



Occupied_Frequency_Bandwidth_NVNT_ANT1_802_11ac(VHT40)_5190



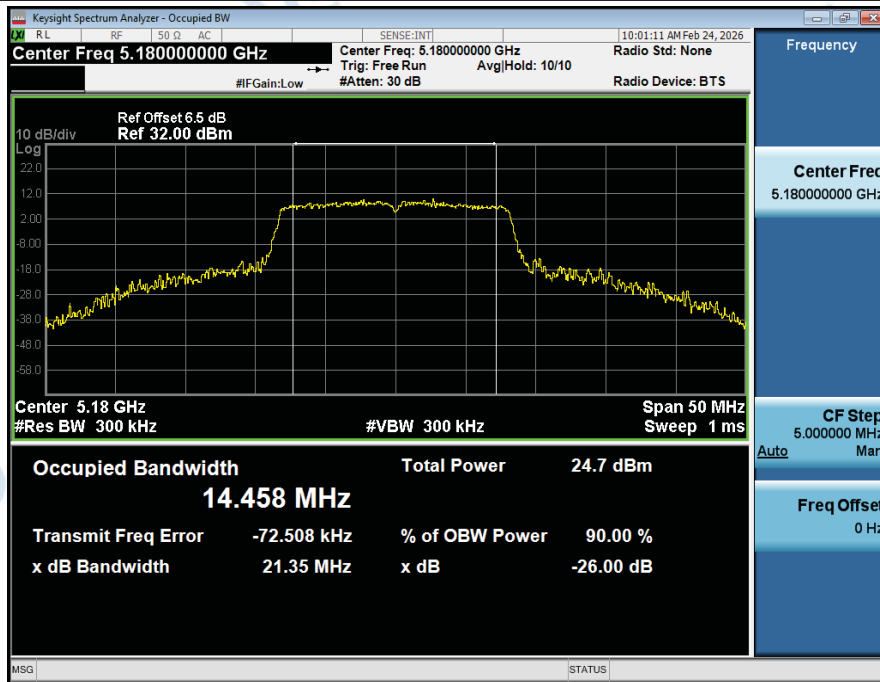
Occupied_Frequency_Bandwidth_NVNT_ANT1_802_11ac(VHT80)_5210



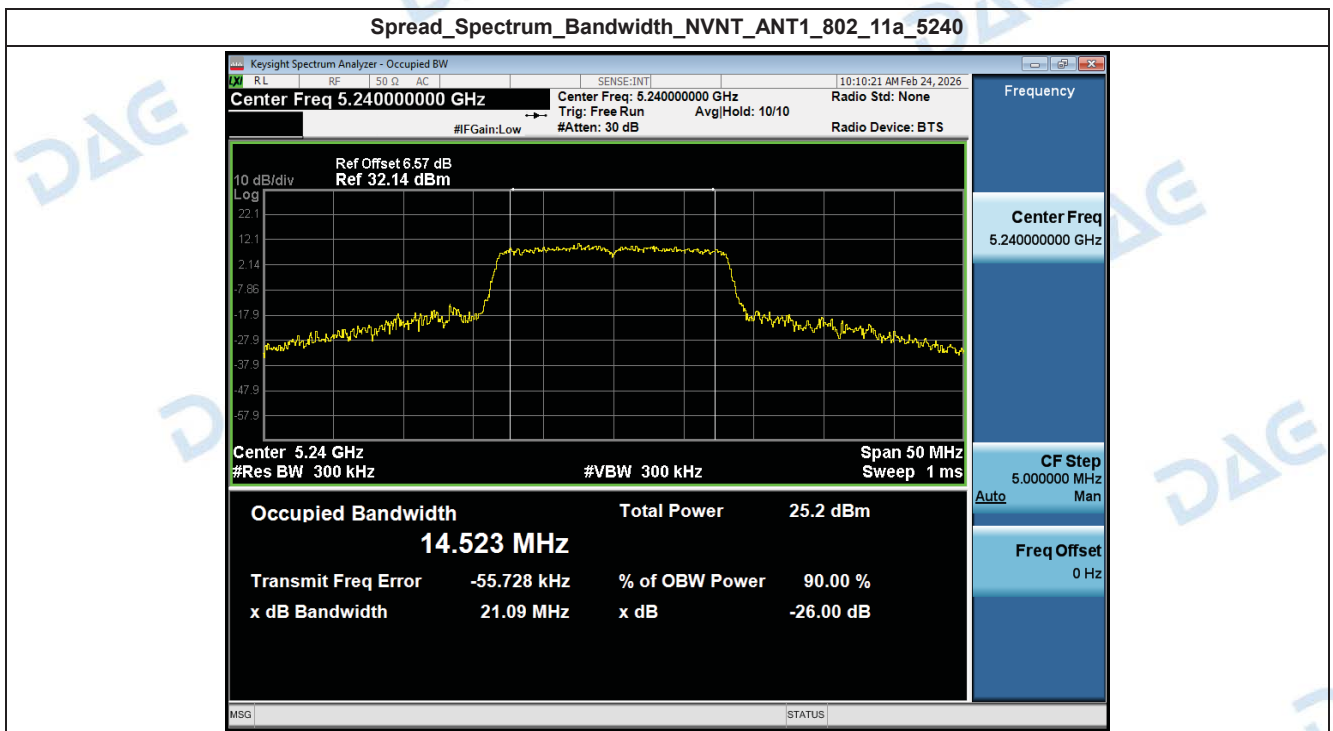
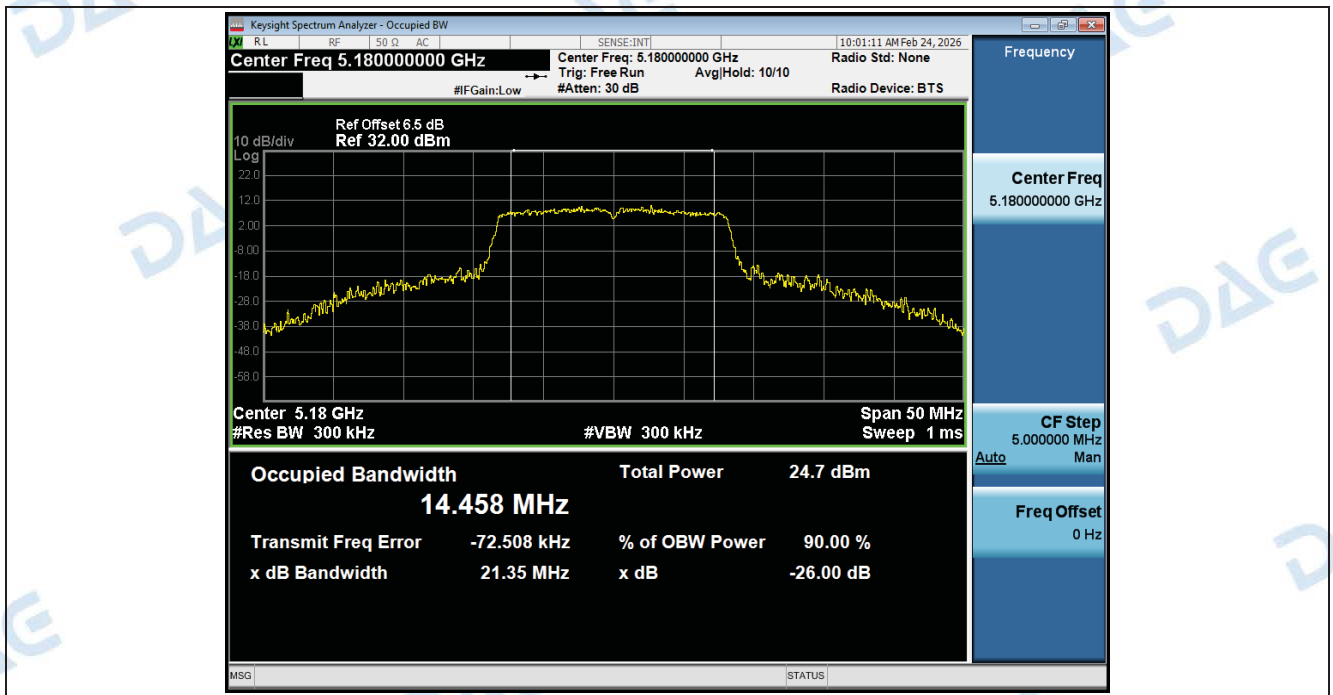
2. Spread Spectrum Bandwidth

Condition	Antenna	Mode	Frequency(MHz)	Spread Spectrum Bandwidth(MHz)
NVNT	ANT1	802.11a	5180.00	14.46
NVNT	ANT1	802.11a	5200.00	14.58
NVNT	ANT1	802.11a	5240.00	14.52
NVNT	ANT1	802.11n(HT20)	5180.00	15.41
NVNT	ANT1	802.11n(HT20)	5200.00	15.46
NVNT	ANT1	802.11n(HT20)	5240.00	15.40
NVNT	ANT1	802.11ac(VHT20)	5180.00	15.44
NVNT	ANT1	802.11ac(VHT20)	5200.00	15.44
NVNT	ANT1	802.11ac(VHT20)	5240.00	15.41
NVNT	ANT1	802.11n(HT40)	5190.00	30.83
NVNT	ANT1	802.11n(HT40)	5230.00	30.79
NVNT	ANT1	802.11ac(VHT40)	5190.00	31.02
NVNT	ANT1	802.11ac(VHT40)	5230.00	30.58
NVNT	ANT1	802.11ac(VHT80)	5210.00	64.86

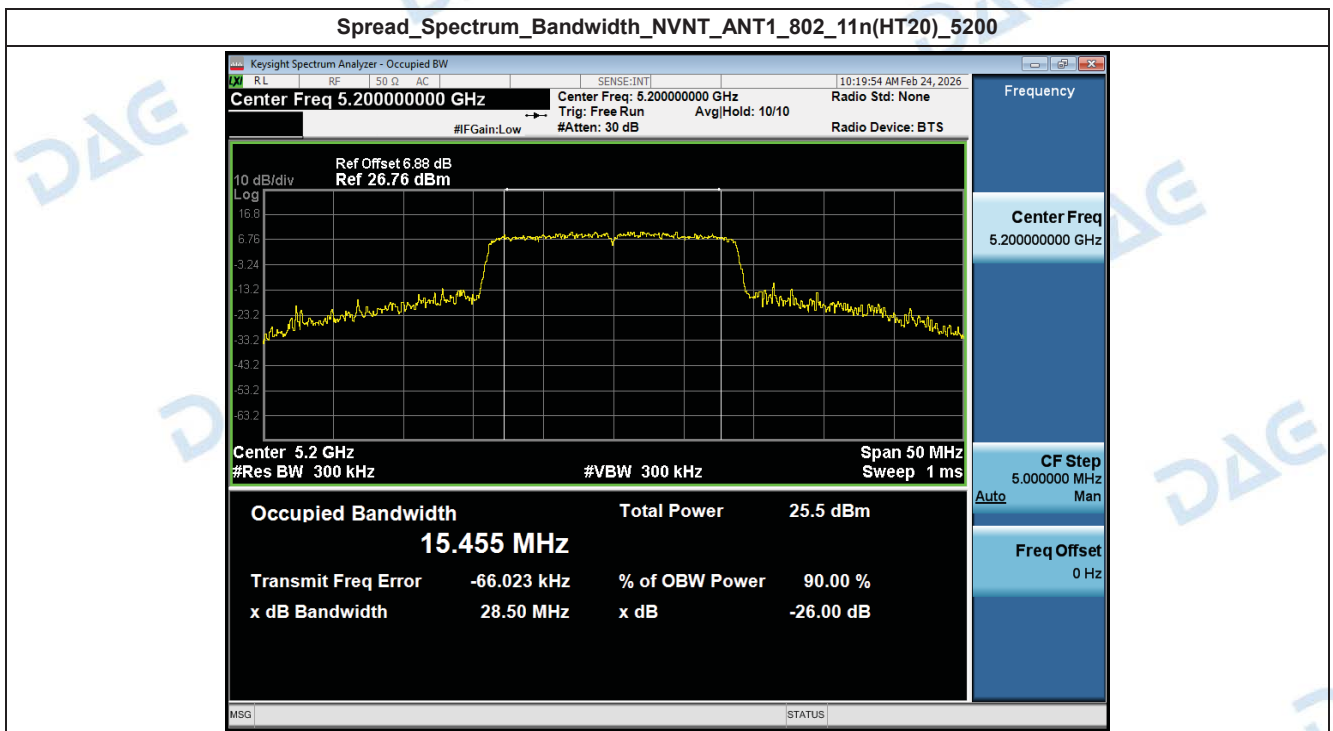
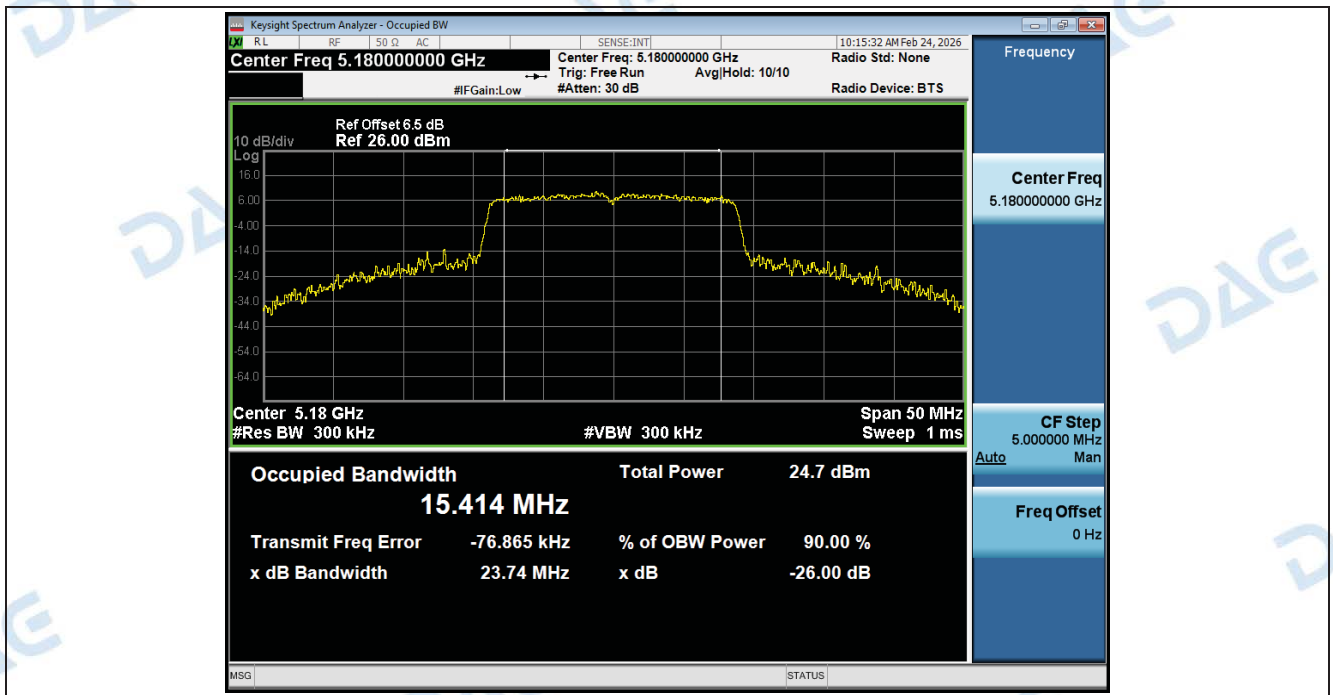
Spread_Spectrum_Bandwidth_NVNT_ANT1_802_11a_5180



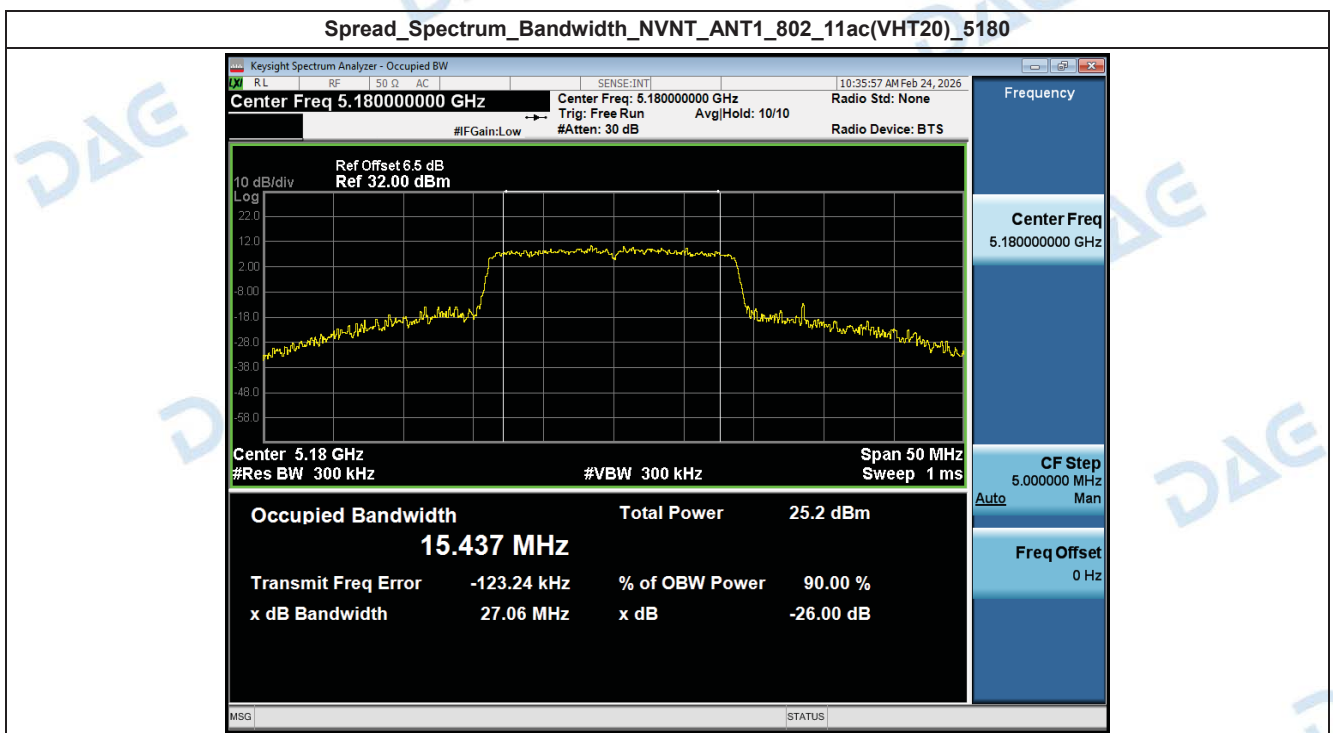
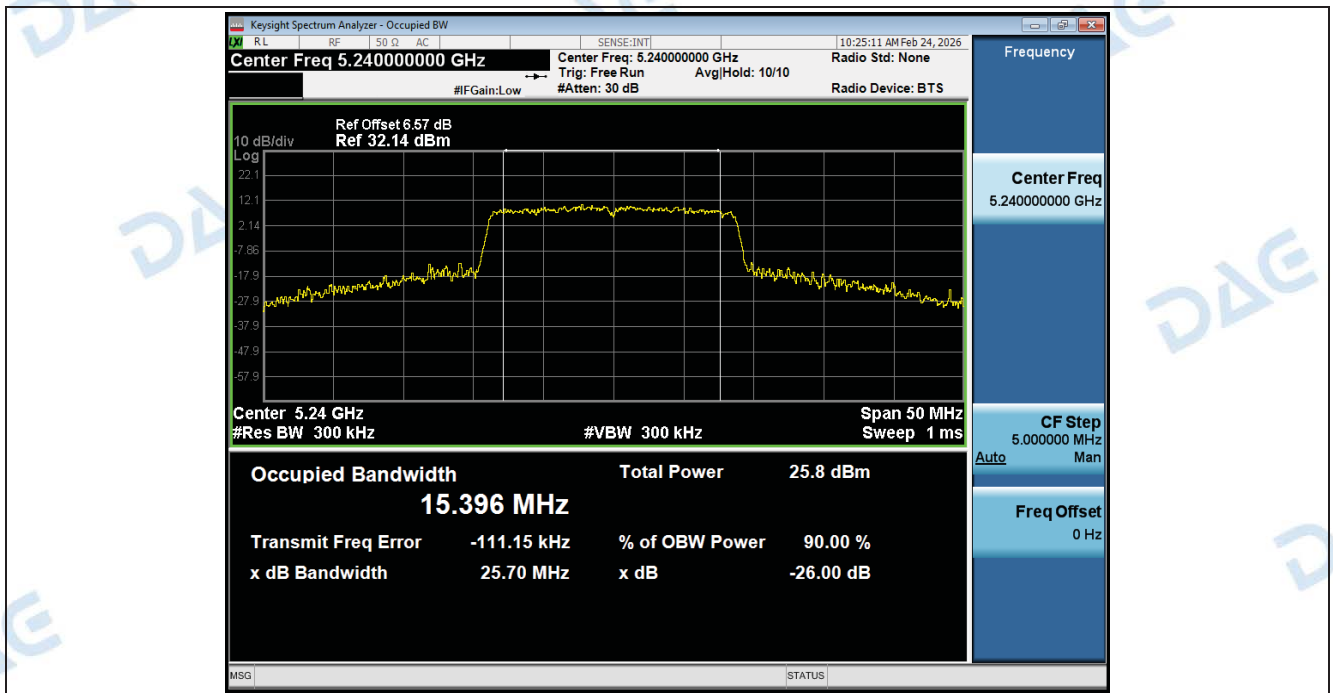
Spread_Spectrum_Bandwidth_NVNT_ANT1_802_11a_5200

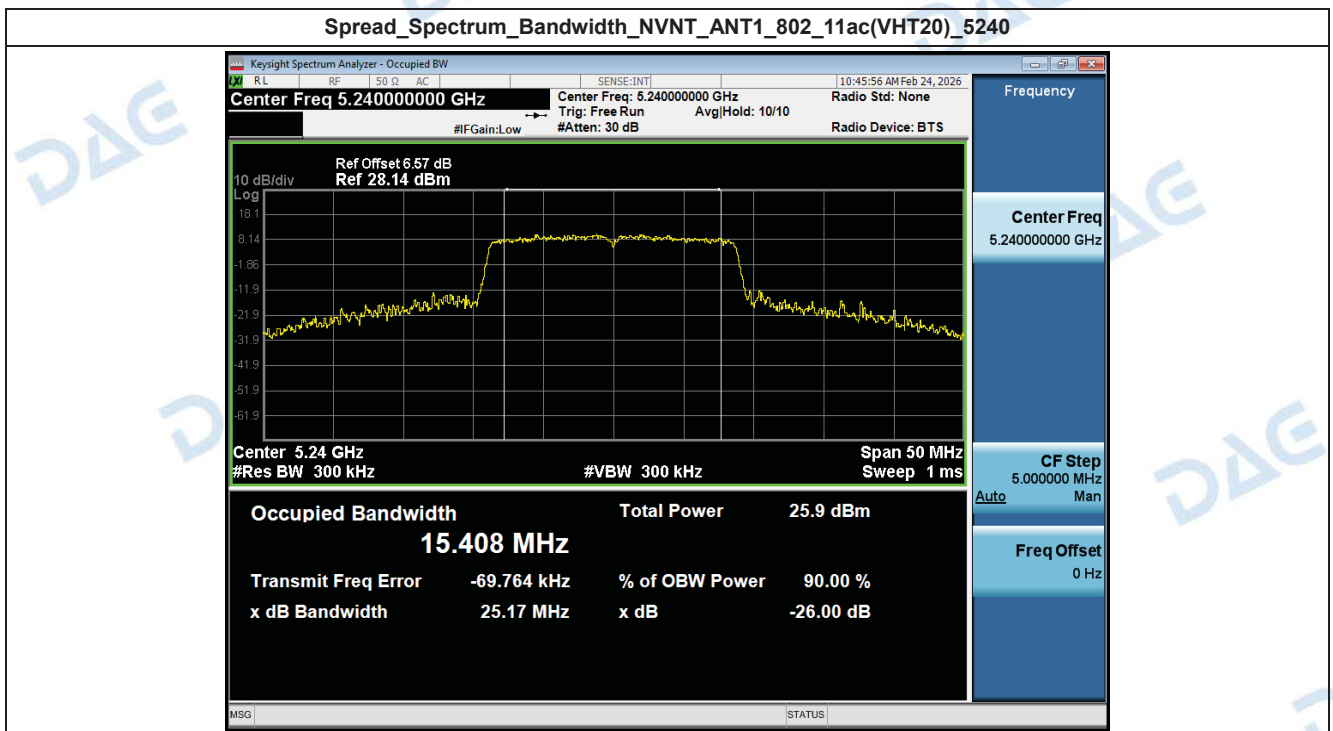
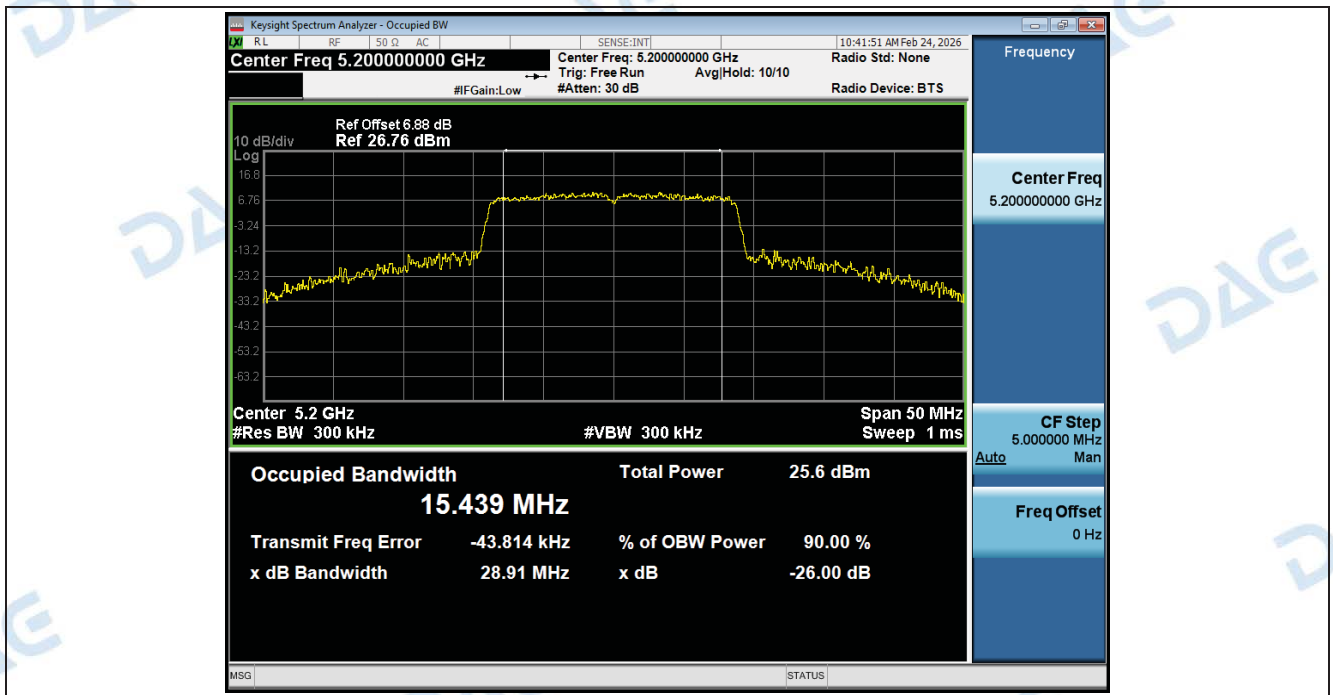


Spread_Spectrum_Bandwidth_NVNT_ANT1_802_11n(HT20)_5180

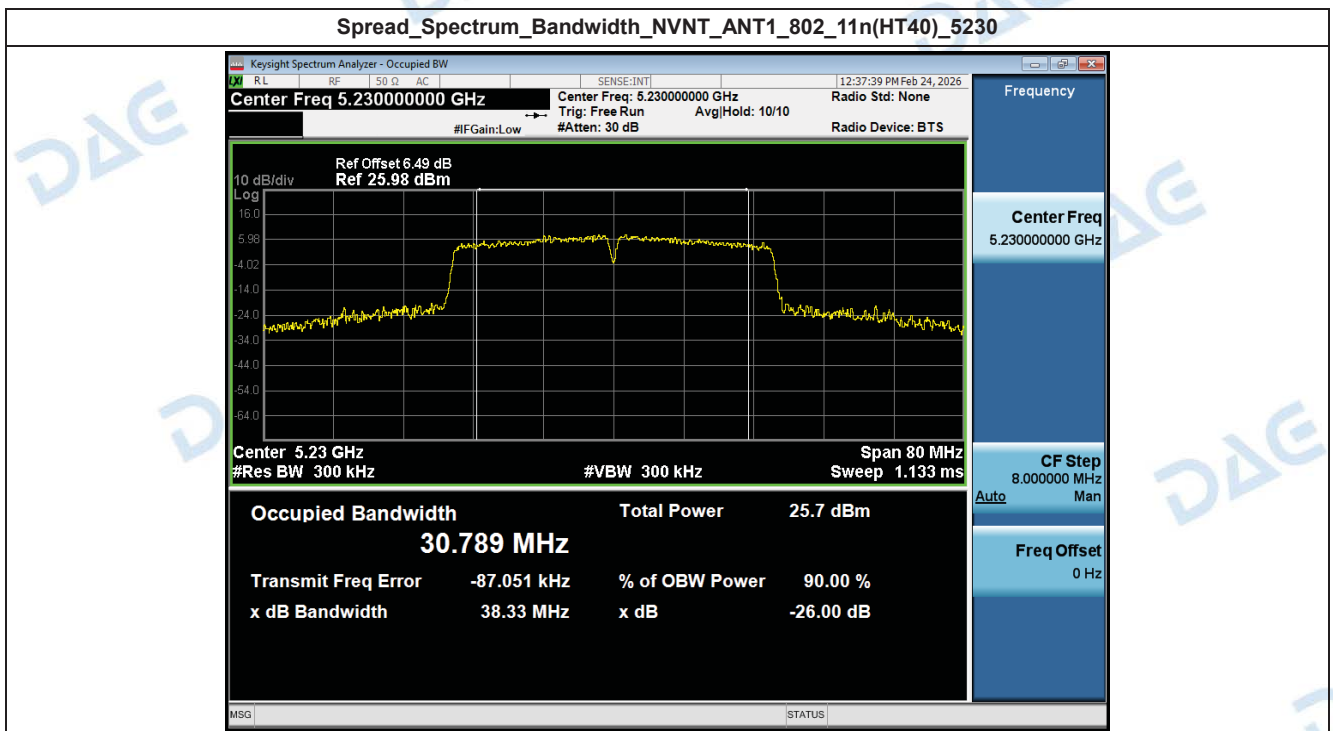
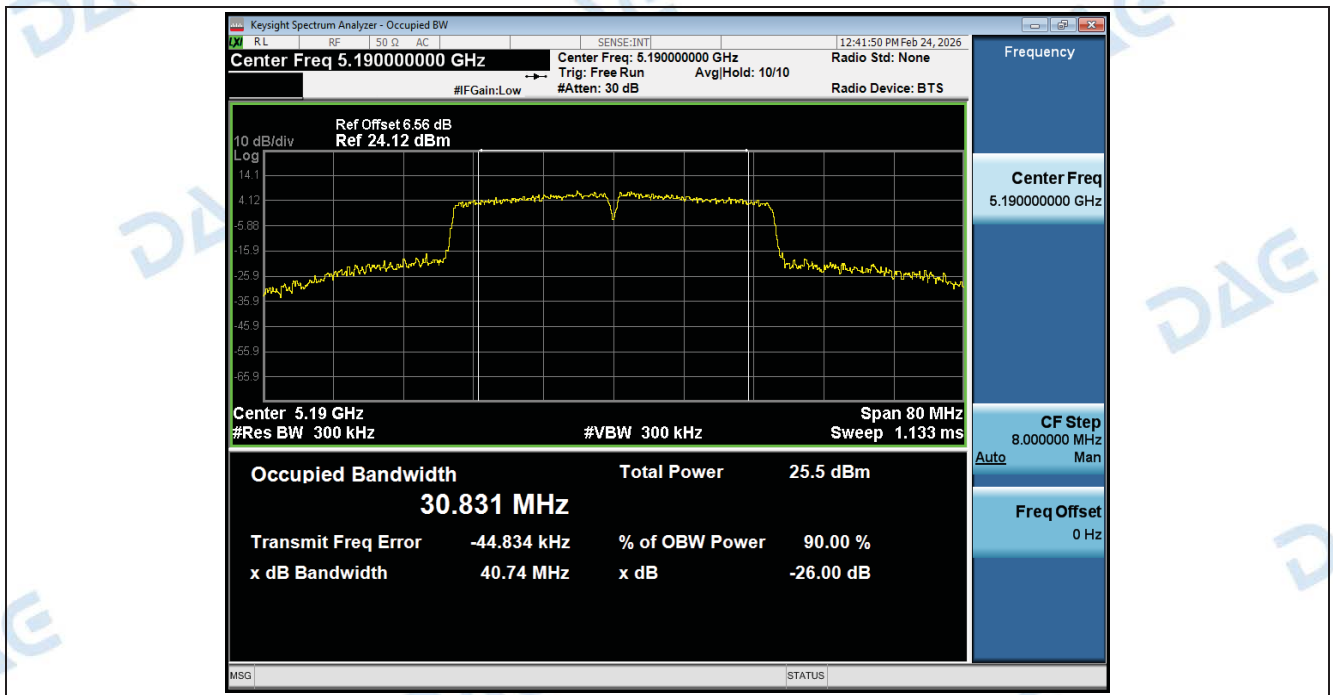


Spread_Spectrum_Bandwidth_NVNT_ANT1_802_11n(HT20)_5240

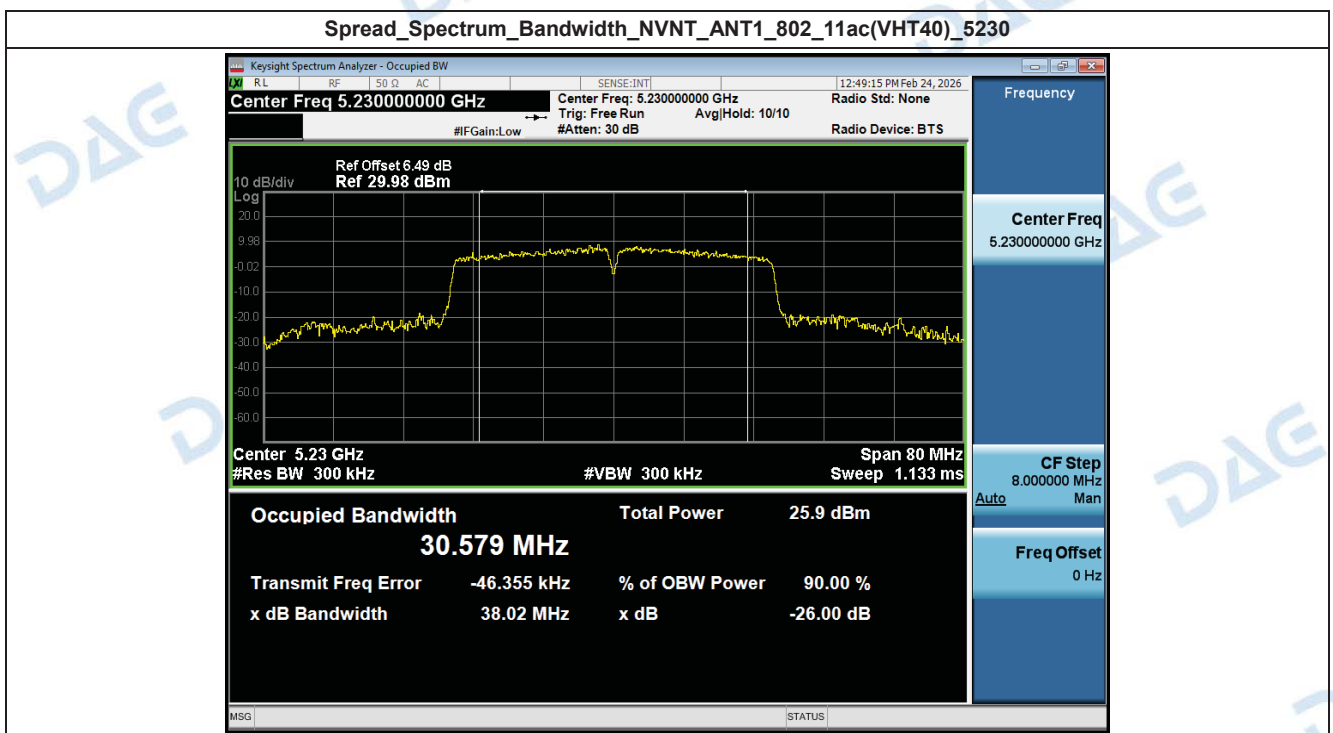
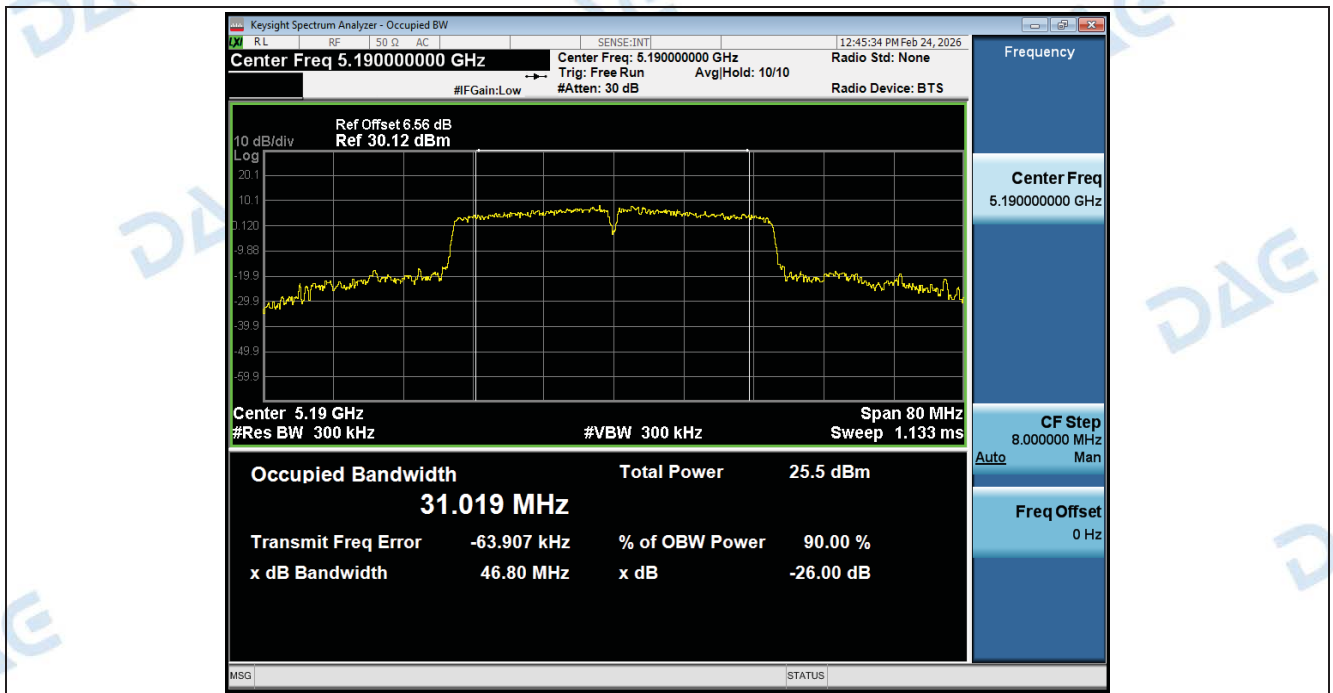




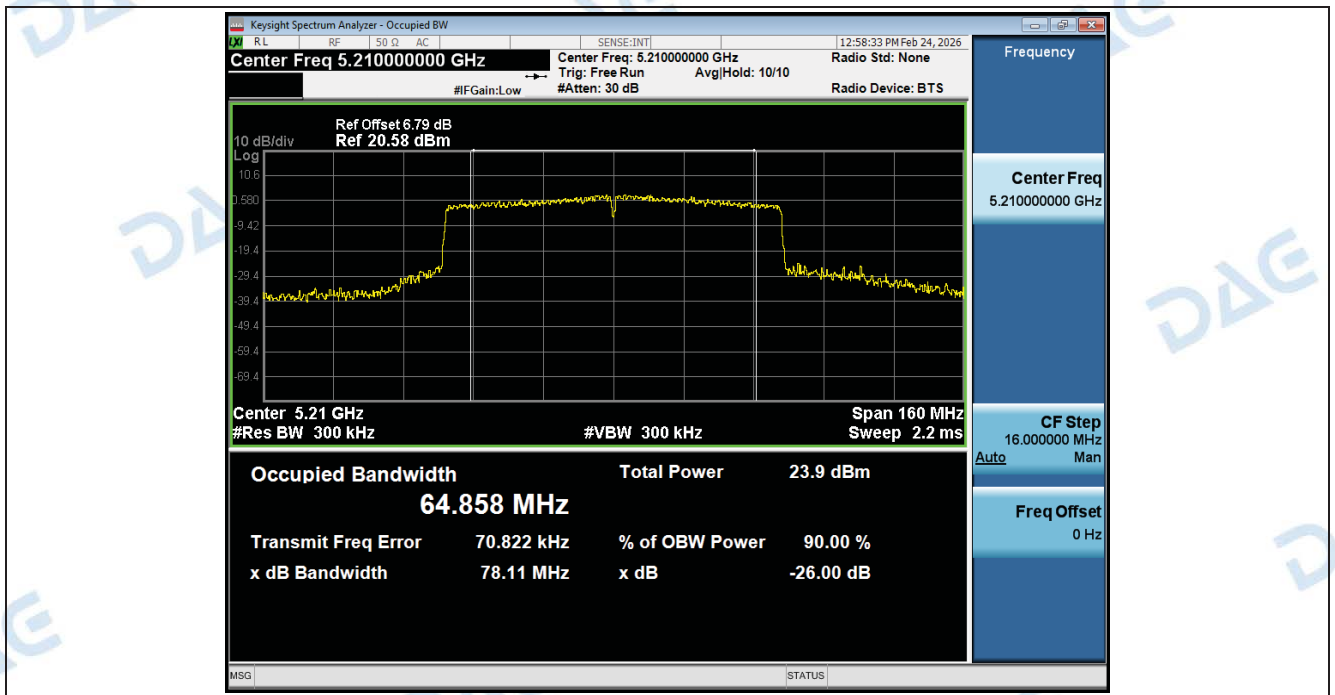
Spread_Spectrum_Bandwidth_NVNT_ANT1_802_11n(HT40)_5190



Spread_Spectrum_Bandwidth_NVNT_ANT1_802_11ac(VHT40)_5190



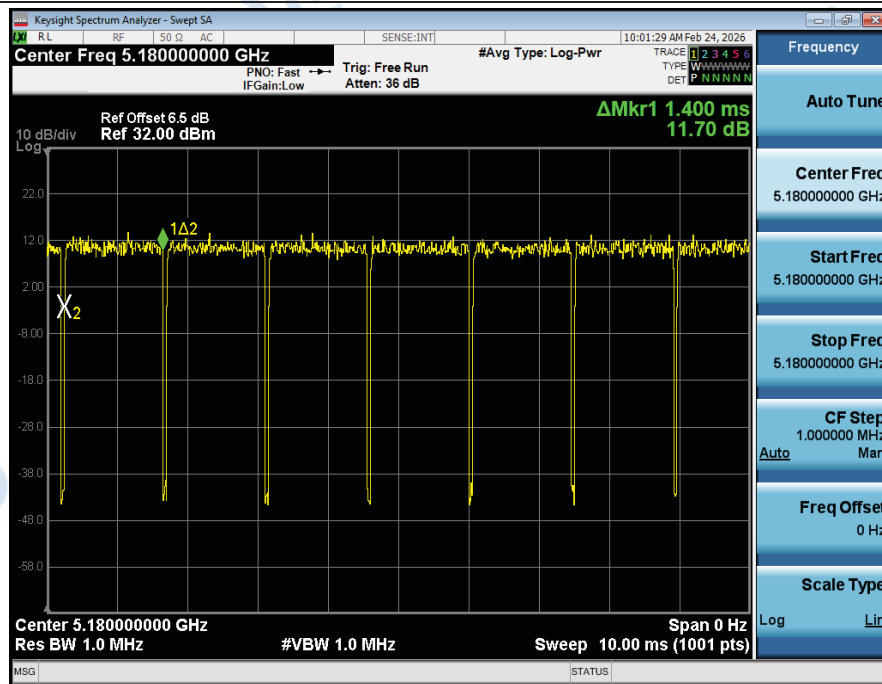
Spread_Spectrum_Bandwidth_NVNT_ANT1_802_11ac(VHT80)_5210



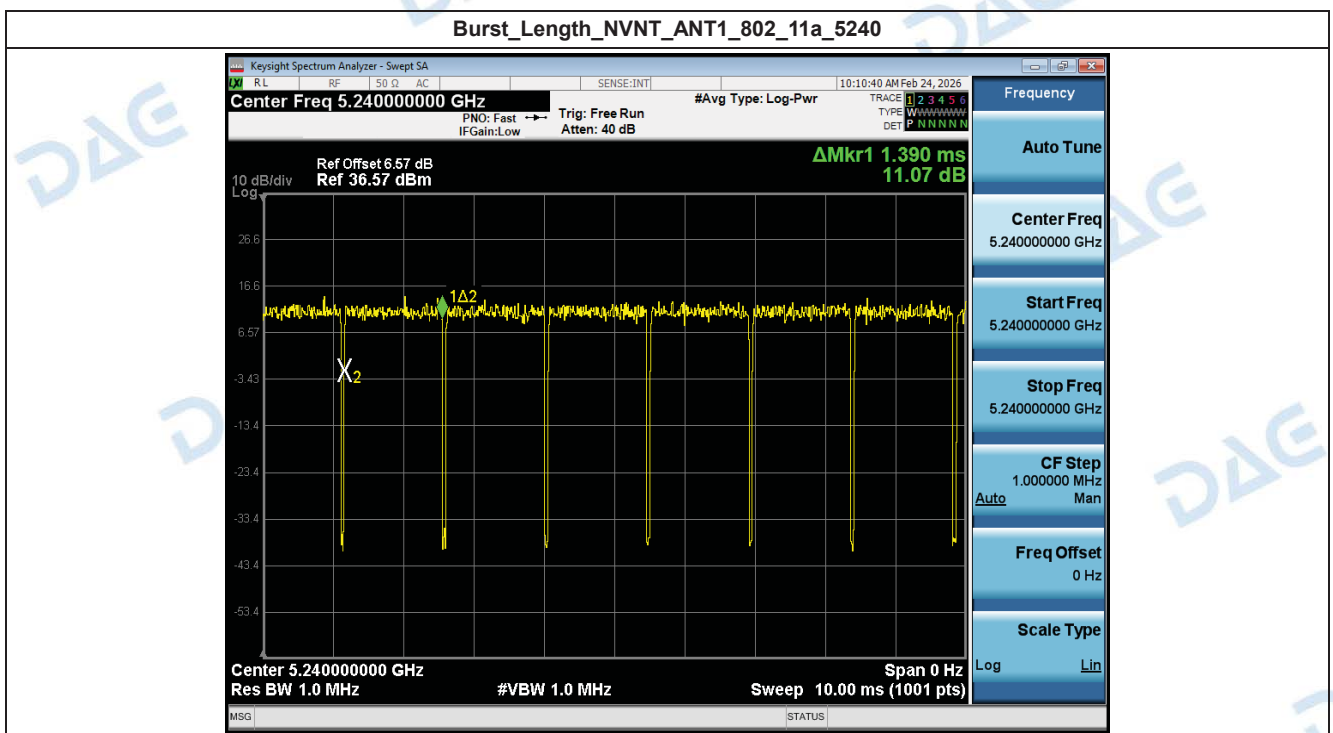
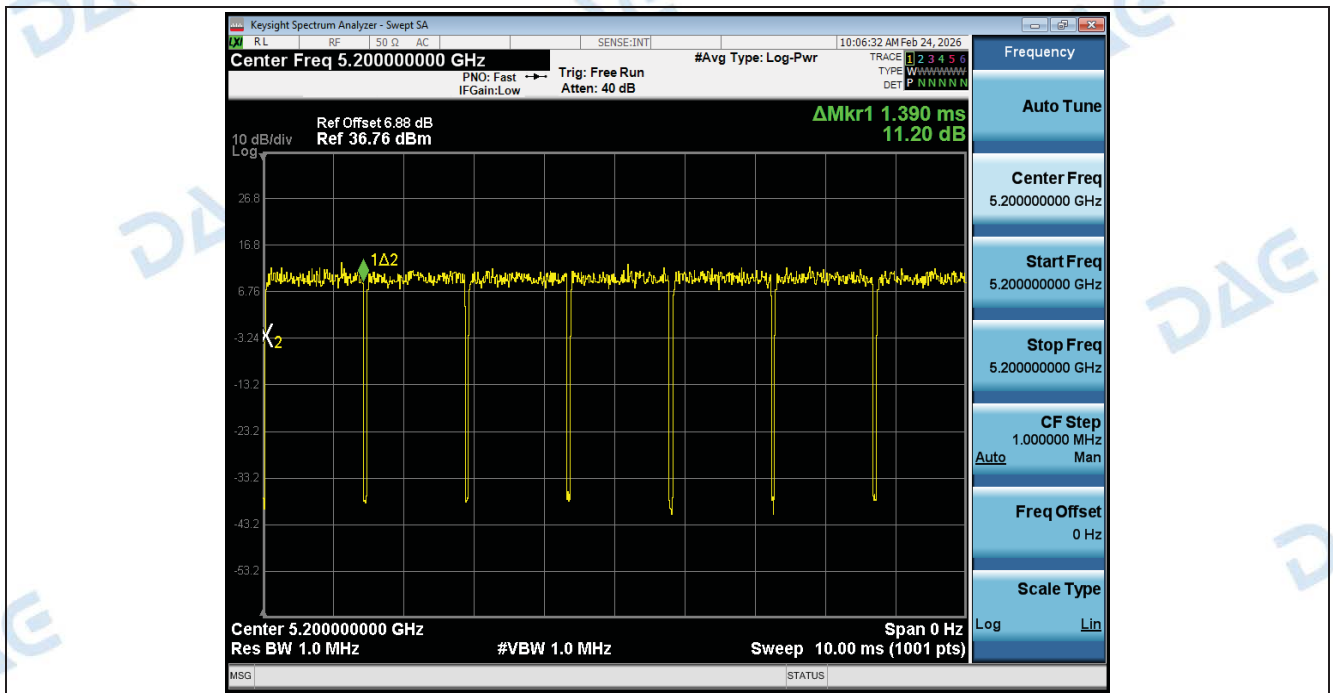
3. Burst Length

Condition	Antenna	Mode	Frequency	Burst_Length(ms)	Limit(ms)	Result
NVNT	ANT1	802.11a	5180.00	1.400	8	Pass
NVNT	ANT1	802.11a	5200.00	1.390	8	Pass
NVNT	ANT1	802.11a	5240.00	1.390	8	Pass
NVNT	ANT1	802.11n(HT20)	5180.00	1.310	8	Pass
NVNT	ANT1	802.11n(HT20)	5200.00	1.310	8	Pass
NVNT	ANT1	802.11n(HT20)	5240.00	1.310	8	Pass
NVNT	ANT1	802.11ac(VHT20)	5180.00	0.680	8	Pass
NVNT	ANT1	802.11ac(VHT20)	5200.00	0.690	8	Pass
NVNT	ANT1	802.11ac(VHT20)	5240.00	0.680	8	Pass
NVNT	ANT1	802.11n(HT40)	5190.00	0.650	8	Pass
NVNT	ANT1	802.11n(HT40)	5230.00	0.650	8	Pass
NVNT	ANT1	802.11ac(VHT40)	5190.00	0.360	8	Pass
NVNT	ANT1	802.11ac(VHT40)	5230.00	0.350	8	Pass
NVNT	ANT1	802.11ac(VHT80)	5210.00	0.190	8	Pass

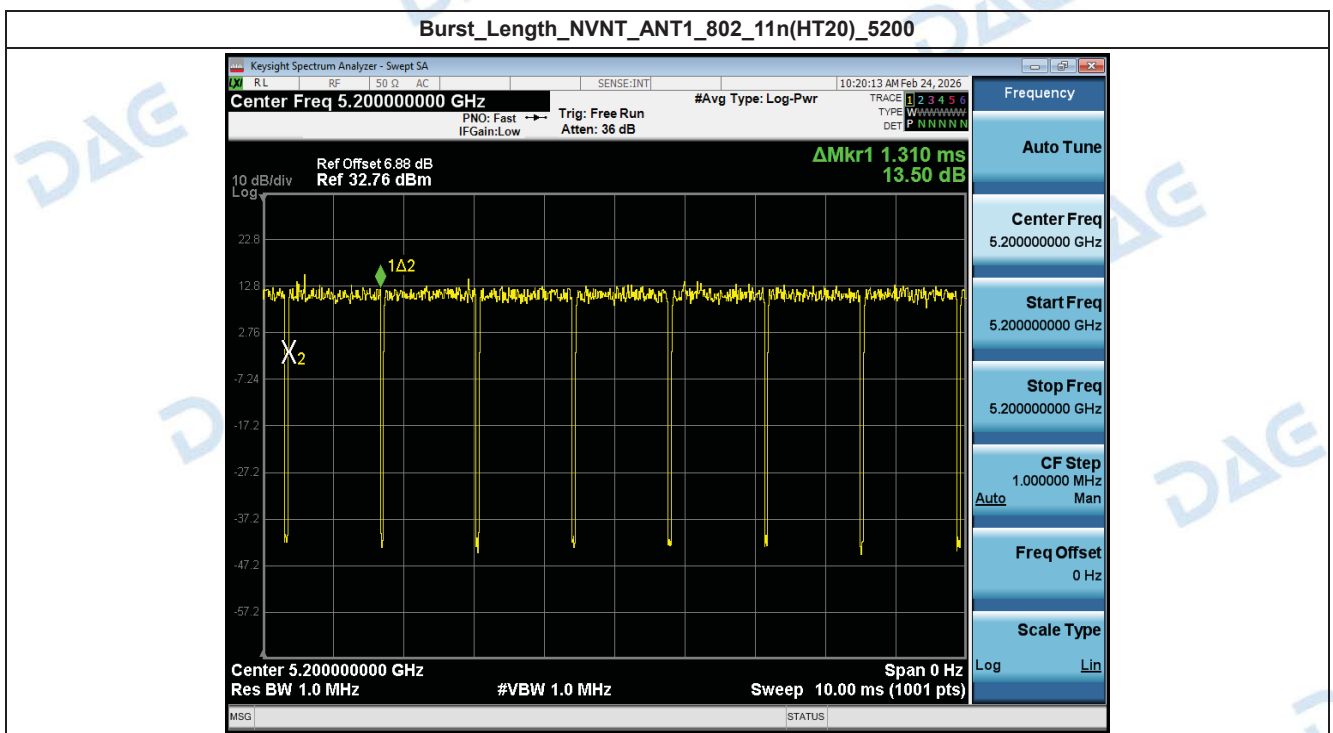
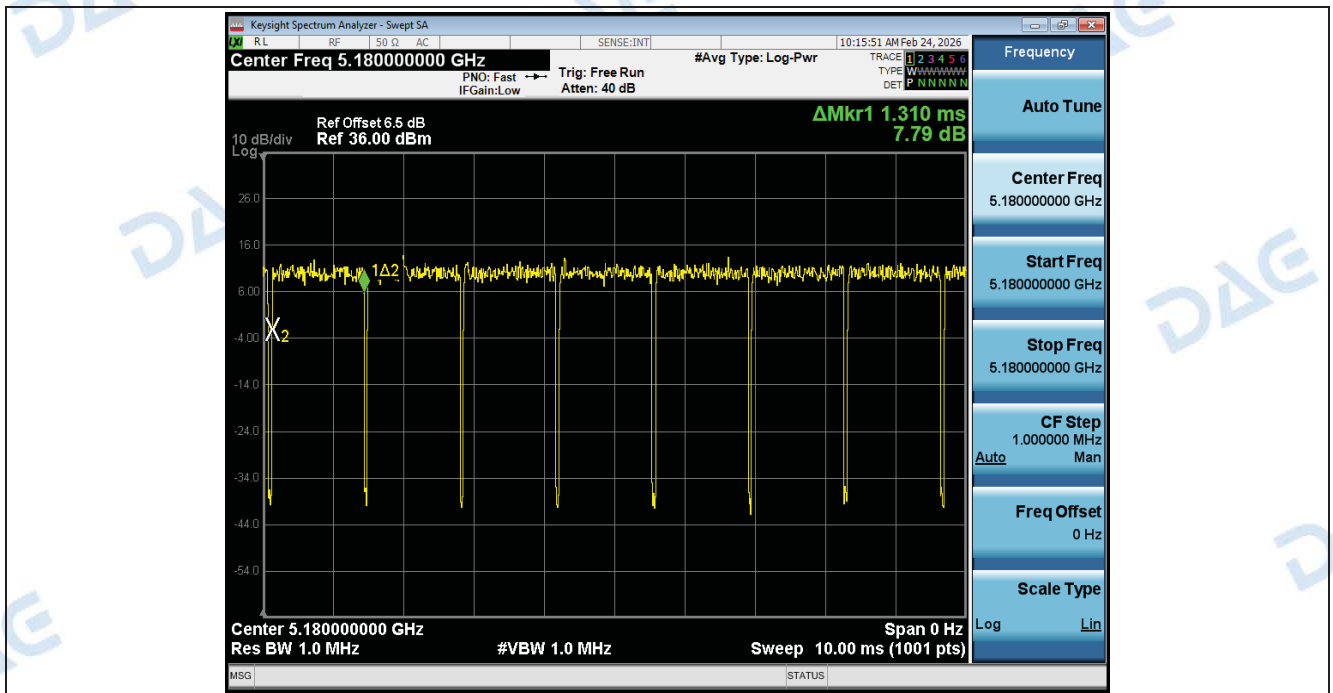
Burst_Length_NVNT_ANT1_802_11a_5180



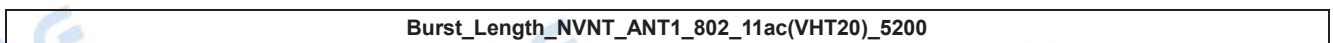
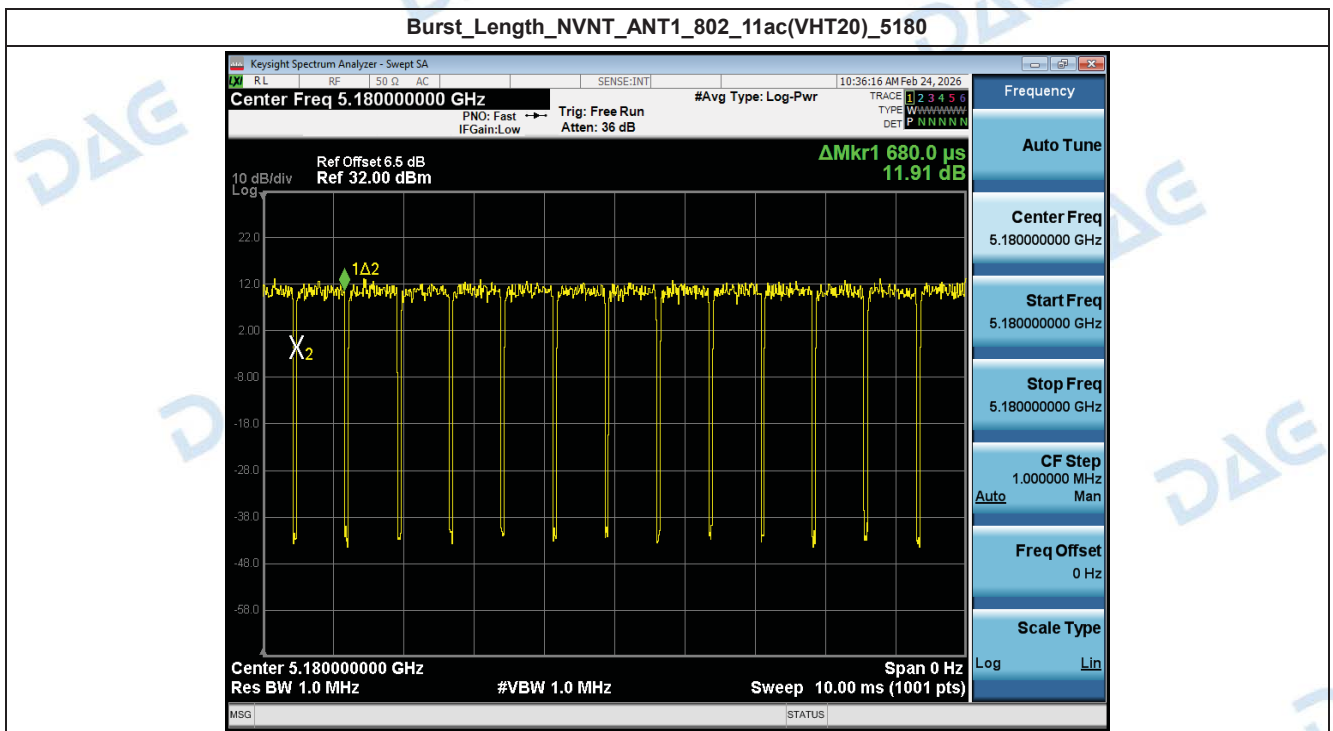
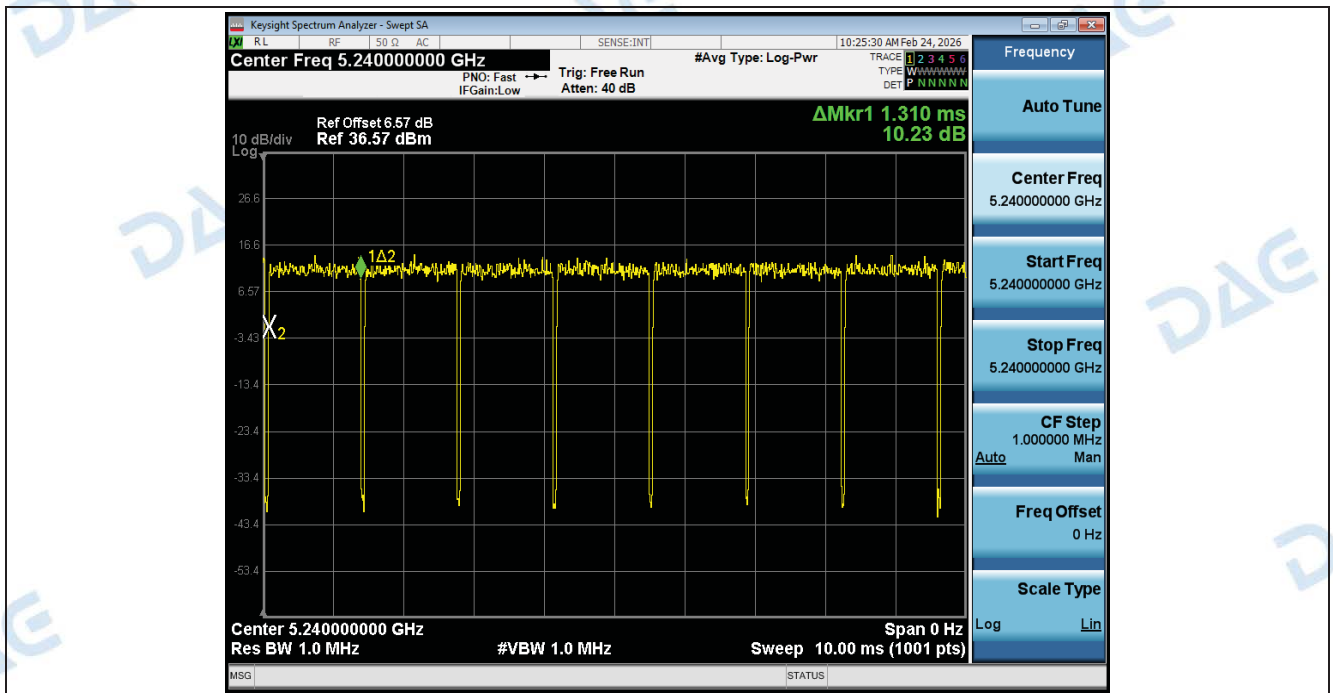
Burst_Length_NVNT_ANT1_802_11a_5200

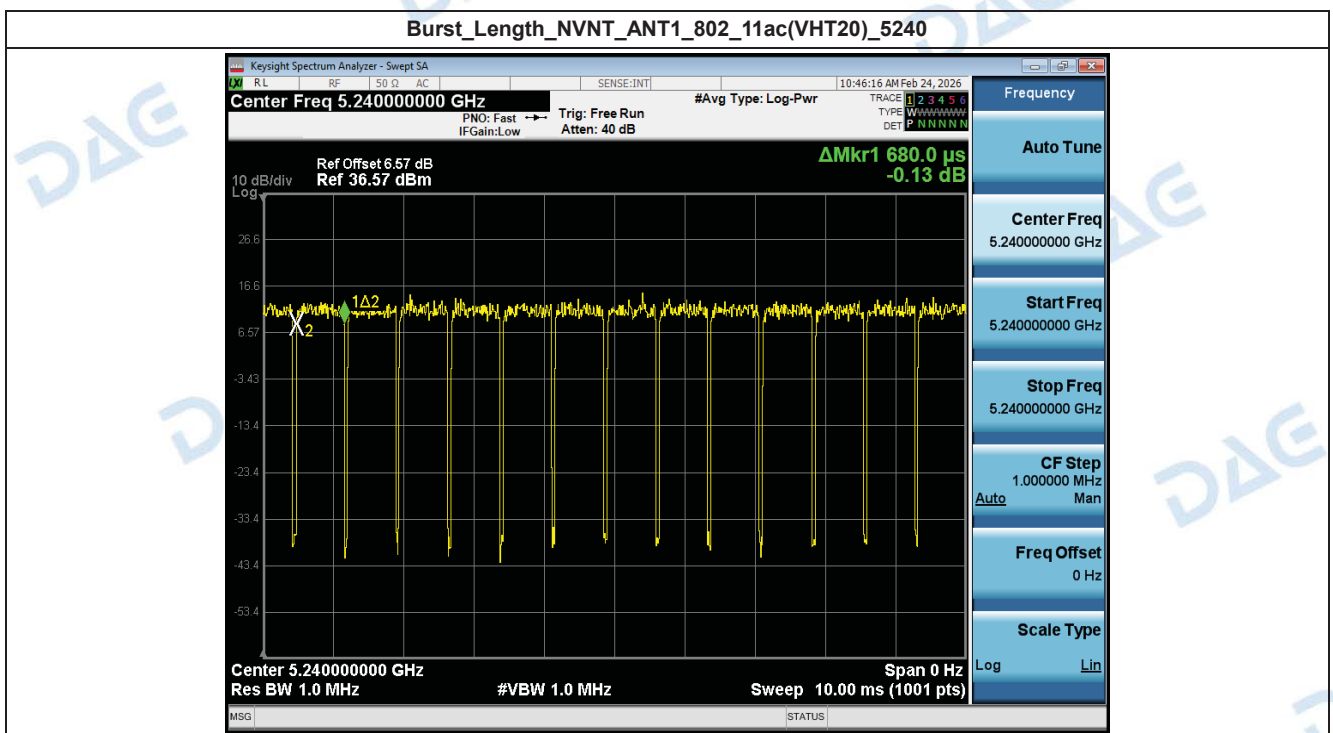
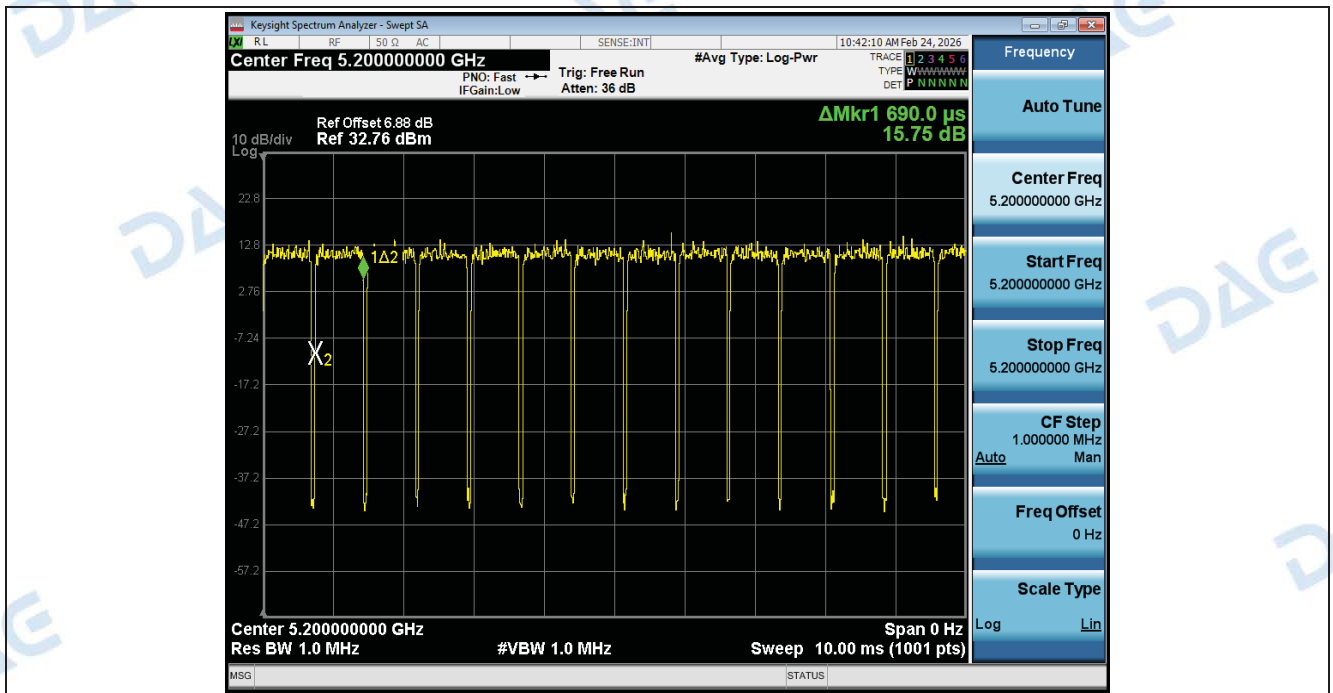


Burst_Length_NVNT_ANT1_802_11n(HT20)_5180

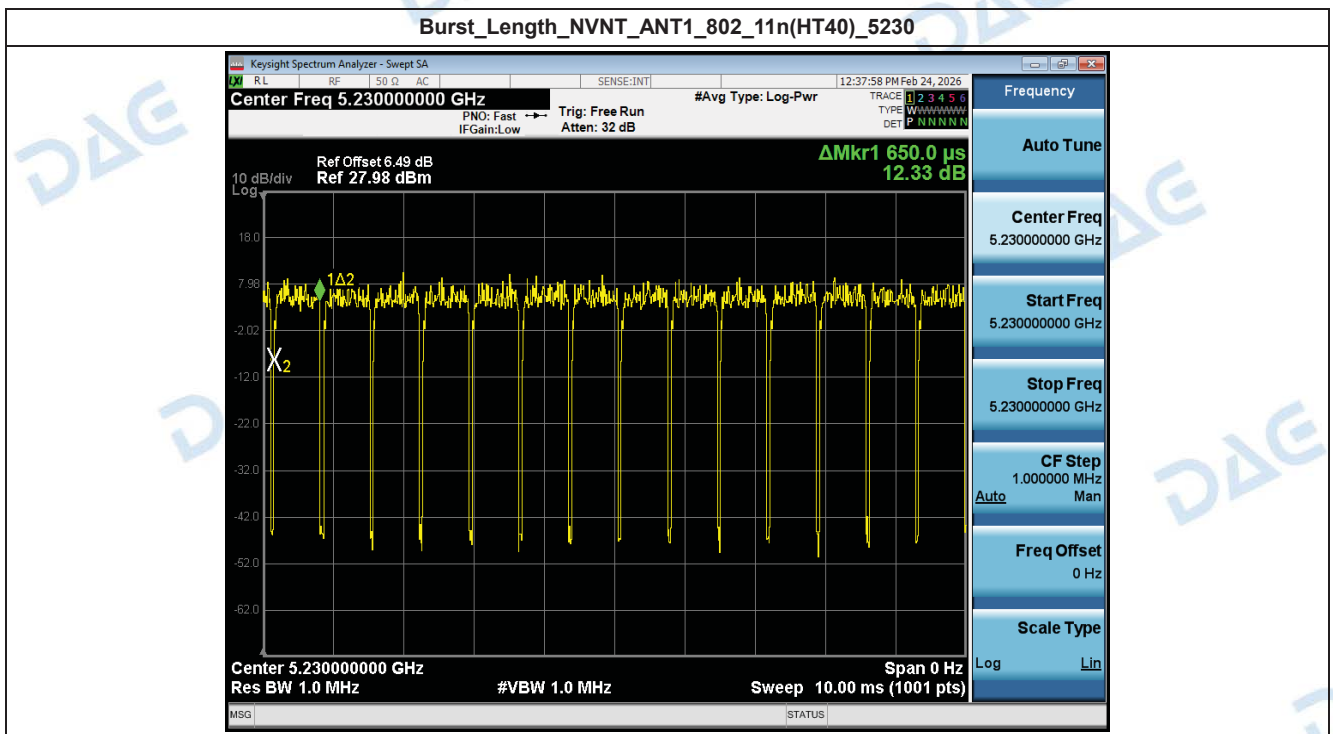
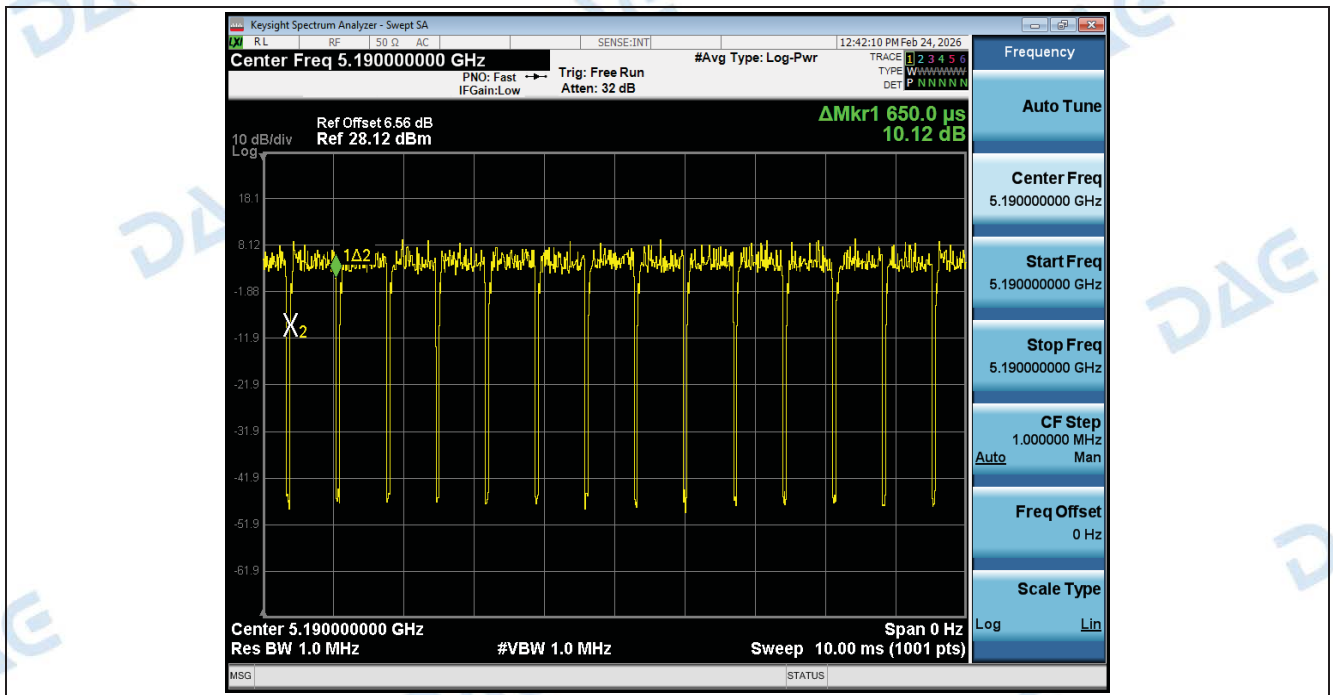


Burst_Length_NVNT_ANT1_802_11n(HT20)_5240

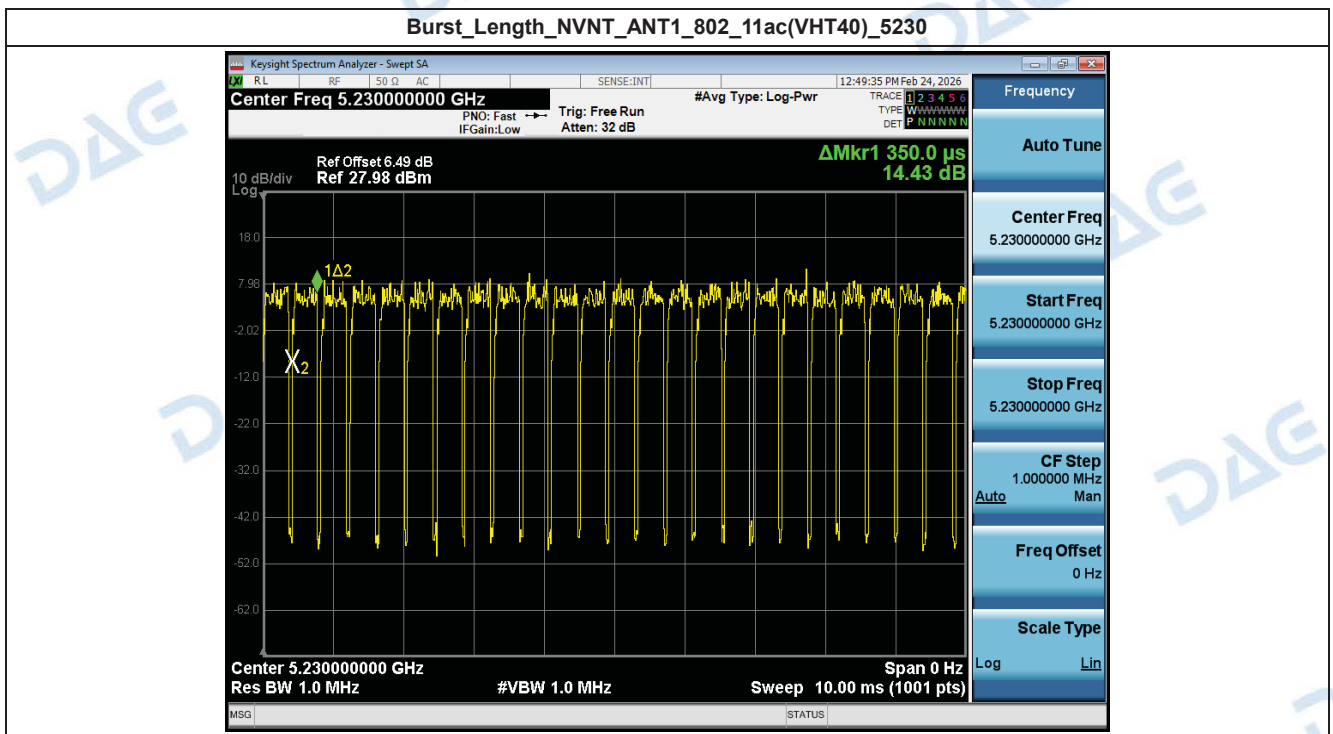
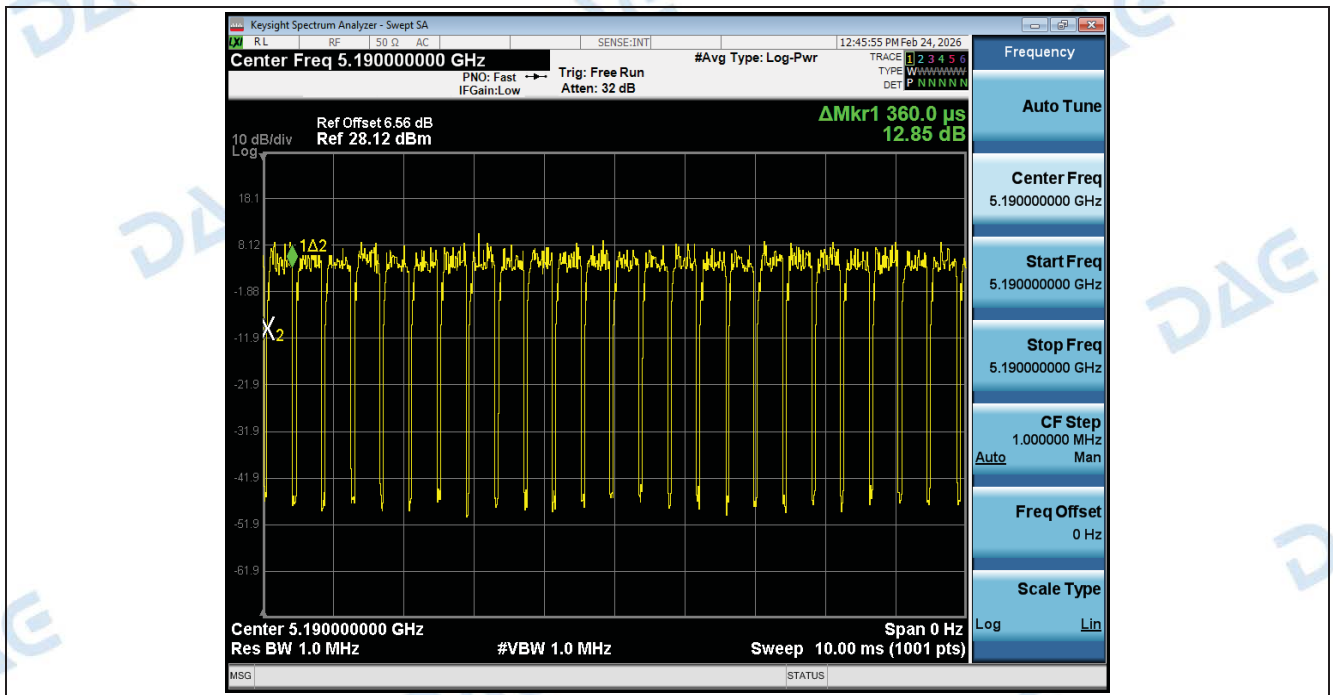




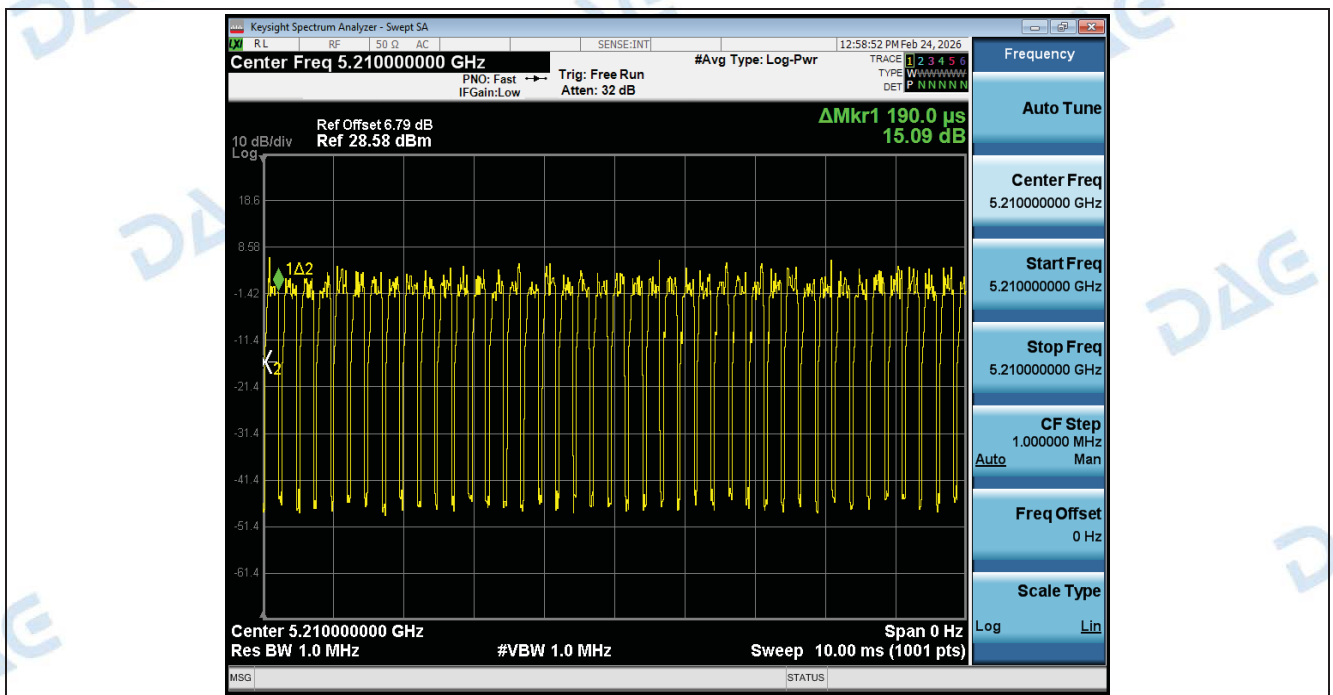
Burst_Length_NVNT_ANT1_802_11n(HT40)_5190



Burst_Length_NVNT_ANT1_802_11ac(VHT40)_5190



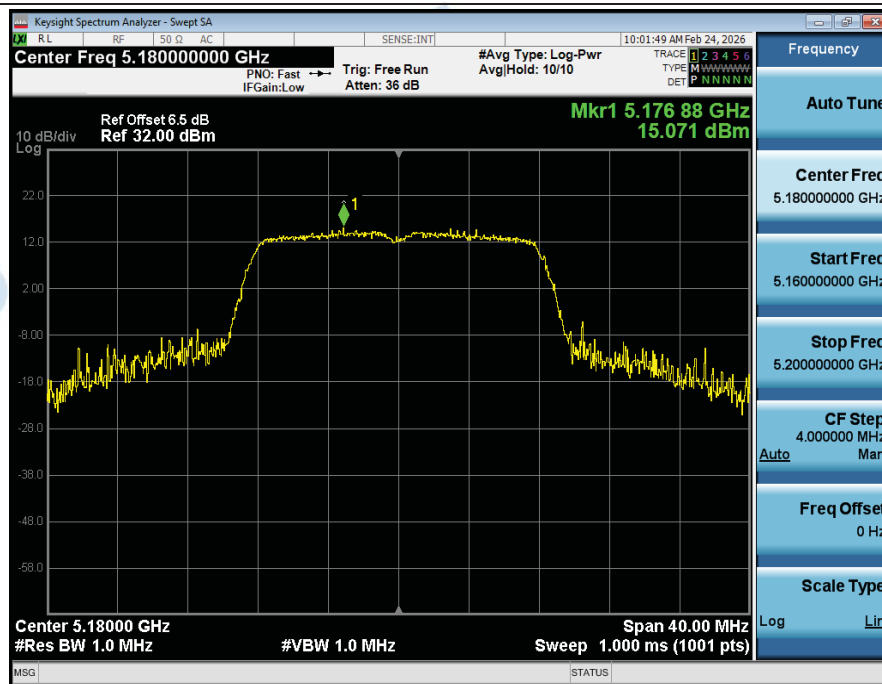
Burst_Length_NVNT_ANT1_802_11ac(VHT80)_5210



4. RF output power & E.I.R.P(Without TPC)

Condition	Antenna	Mode	Frequency	Measured Power(dBm)	Antenna Power(mW/MHz)	Rated Power(mW/MHz)	Power Limit(mW/MHz)	Power Tolerance(%)	Tolerance Limit(%)	Result
NVNT	ANT1	802.11a	5180.00	4.44	2.78	3	10	-7.34	-80~+20	Pass
NVNT	ANT1	802.11a	5200.00	4.70	2.95	3	10	-1.63	-80~+20	Pass
NVNT	ANT1	802.11a	5240.00	4.79	3.01	3	10	0.43	-80~+20	Pass
NVNT	ANT1	802.11n(HT20)	5180.00	4.97	3.14	4	10	-21.49	-80~+20	Pass
NVNT	ANT1	802.11n(HT20)	5200.00	4.89	3.08	4	10	-22.92	-80~+20	Pass
NVNT	ANT1	802.11n(HT20)	5240.00	5.66	3.68	4	10	-7.97	-80~+20	Pass
NVNT	ANT1	802.11ac(VHT20)	5180.00	4.50	2.82	3	10	-6.05	-80~+20	Pass
NVNT	ANT1	802.11ac(VHT20)	5200.00	4.73	2.97	3	10	-0.94	-80~+20	Pass
NVNT	ANT1	802.11ac(VHT20)	5240.00	4.50	2.82	3	10	-6.05	-80~+20	Pass
NVNT	ANT1	802.11n(HT40)	5190.00	2.14	1.64	2	5	-18.16	-80~+20	Pass
NVNT	ANT1	802.11n(HT40)	5230.00	2.62	1.83	2	5	-8.59	-80~+20	Pass
NVNT	ANT1	802.11ac(VHT40)	5190.00	2.75	1.88	2	5	-5.82	-80~+20	Pass
NVNT	ANT1	802.11ac(VHT40)	5230.00	2.71	1.87	2	5	-6.68	-80~+20	Pass
NVNT	ANT1	802.11ac(VHT80)	5210.00	-1.28	0.74	1	2.5	-25.53	-80~+20	Pass

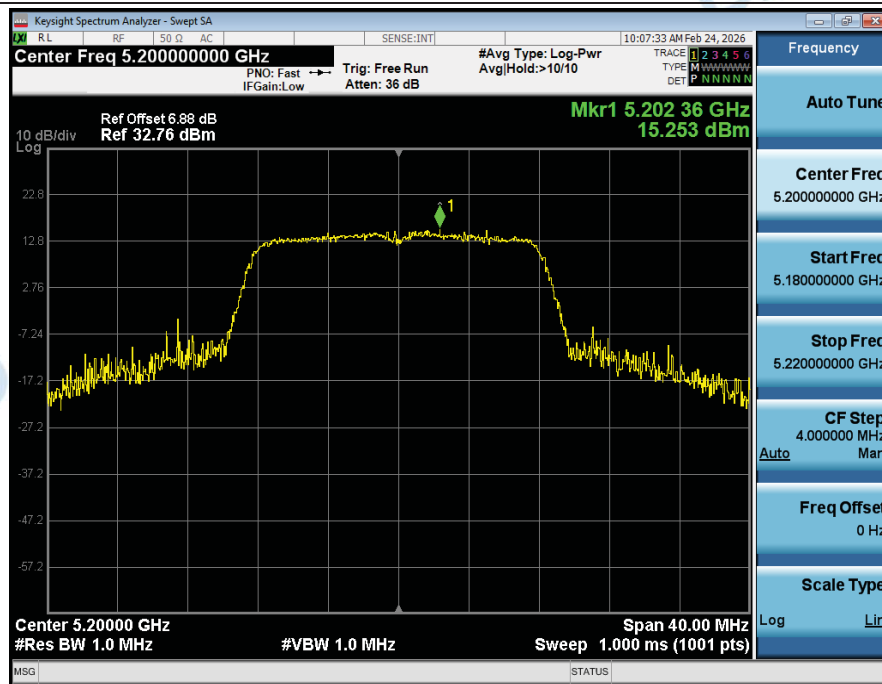
1_Conducted_Power_Frequency_NVNT_ANT1_802_11a_5180



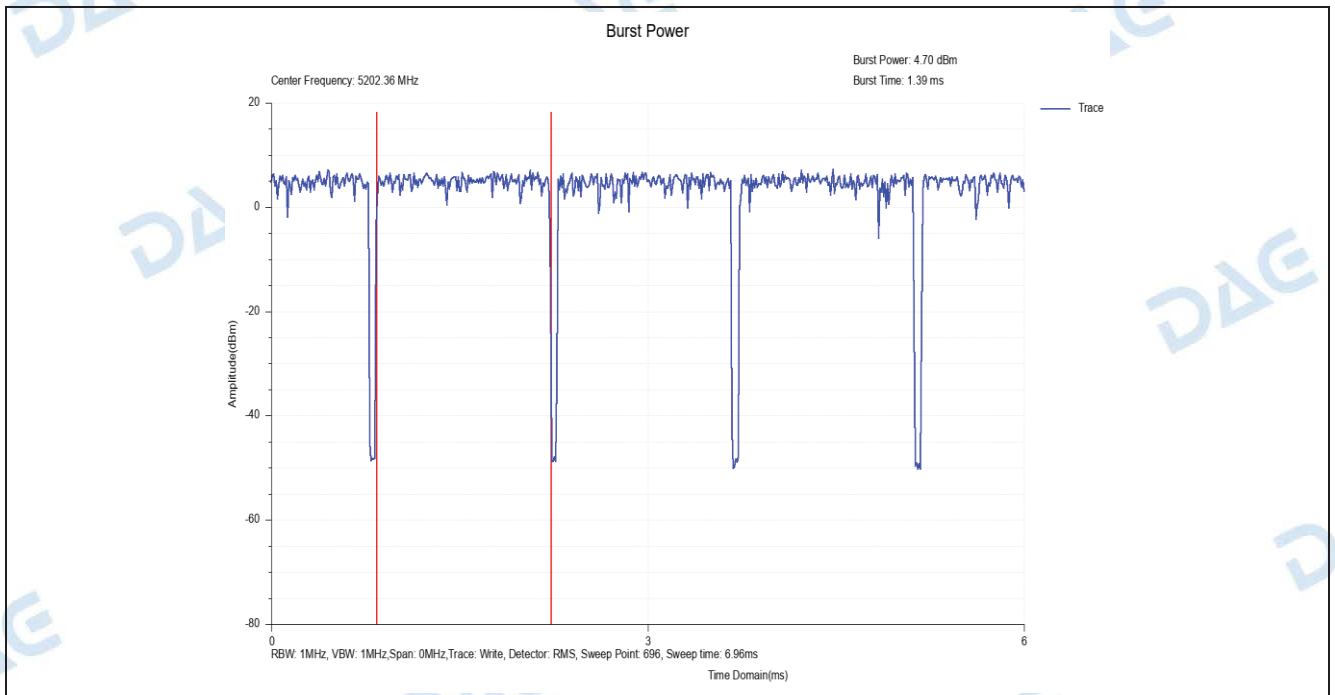
2_RF_output_power_& E_I_R_P(Without_TPC)_NVNT_ANT1_802_11a_5180



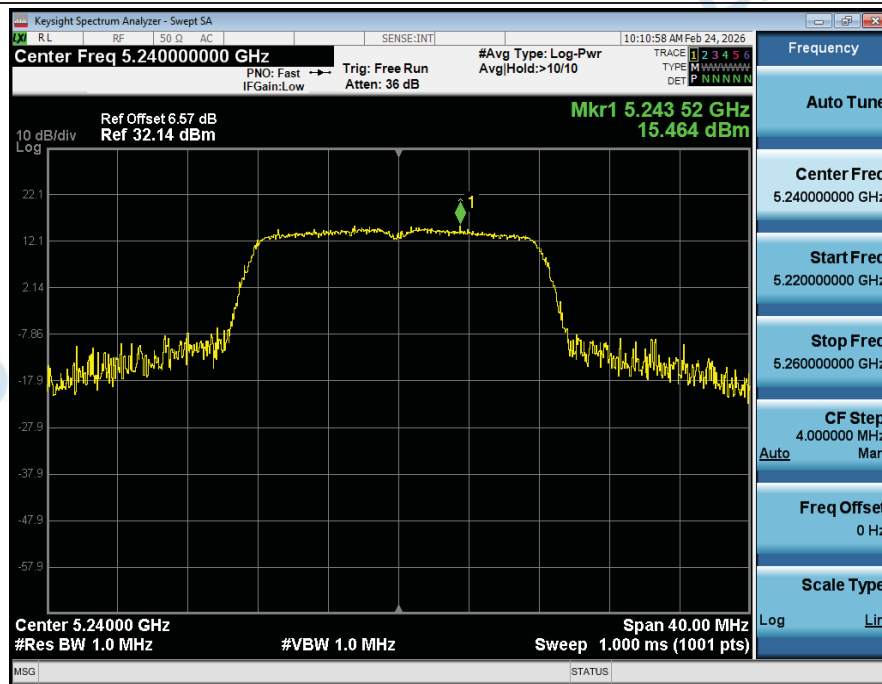
1_Conducted_Power_Frequency_NVNT_ANT1_802_11a_5200



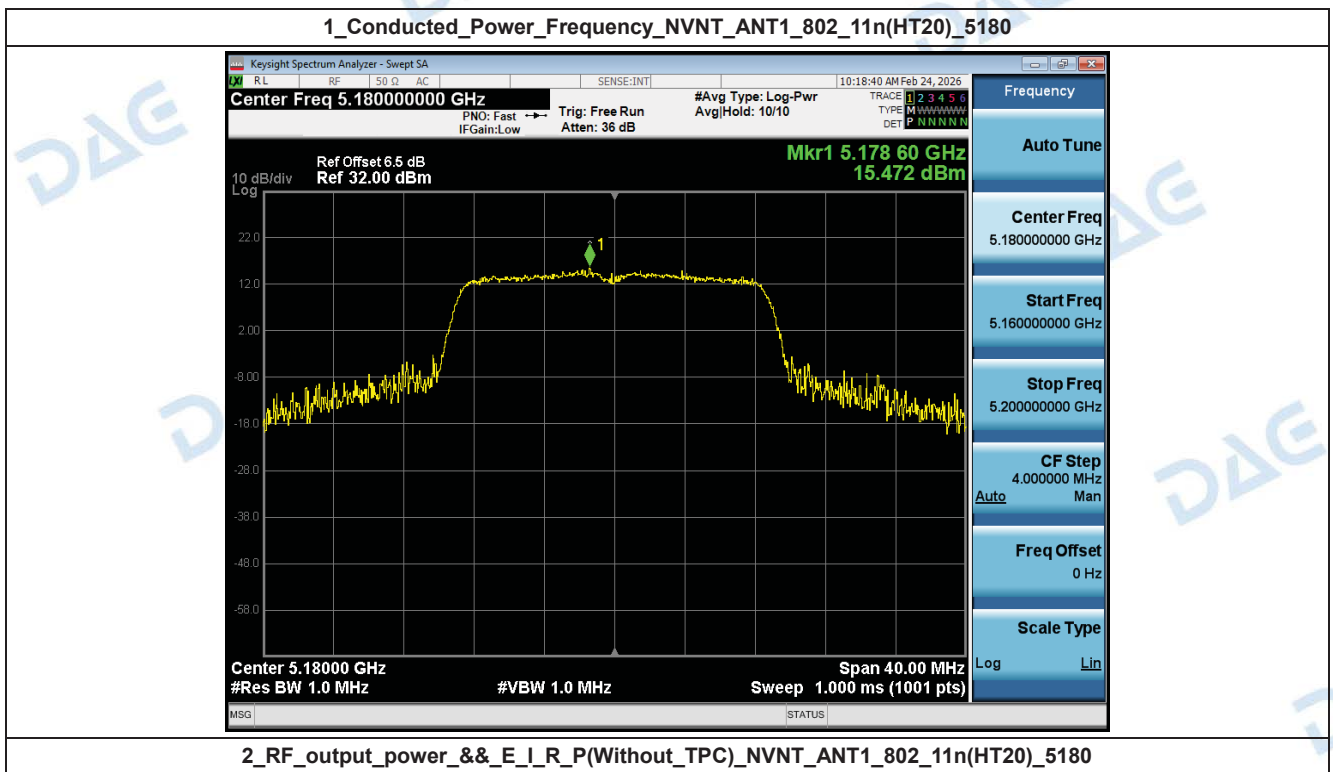
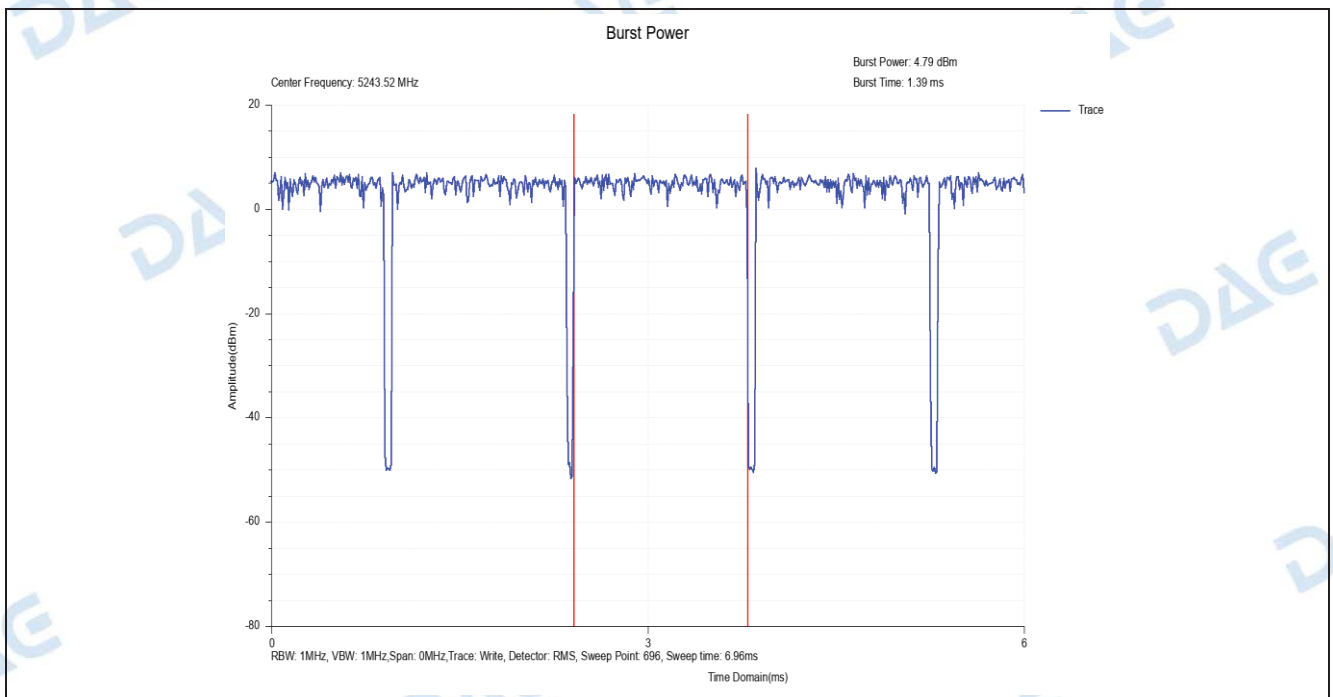
2_RF_output_power_&&_E_I_R_P(Without_TPC)_NVNT_ANT1_802_11a_5200

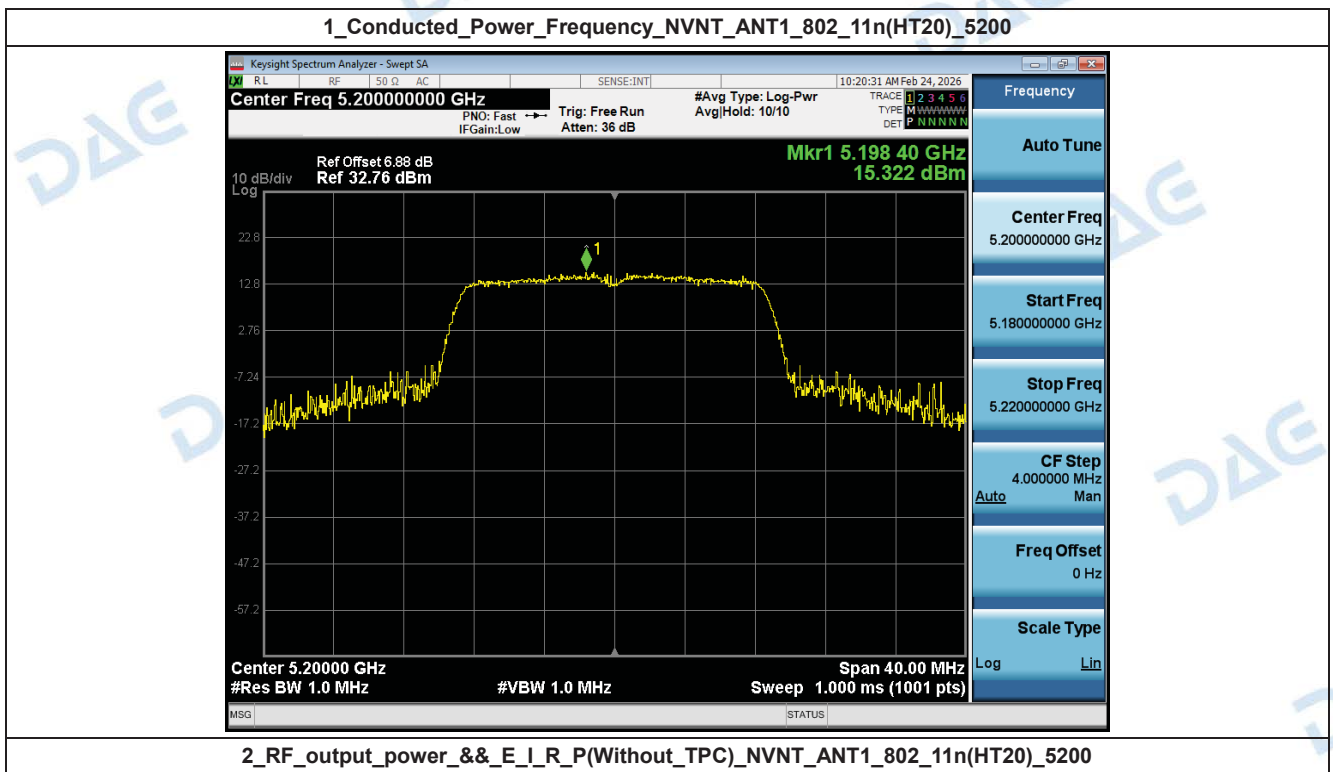
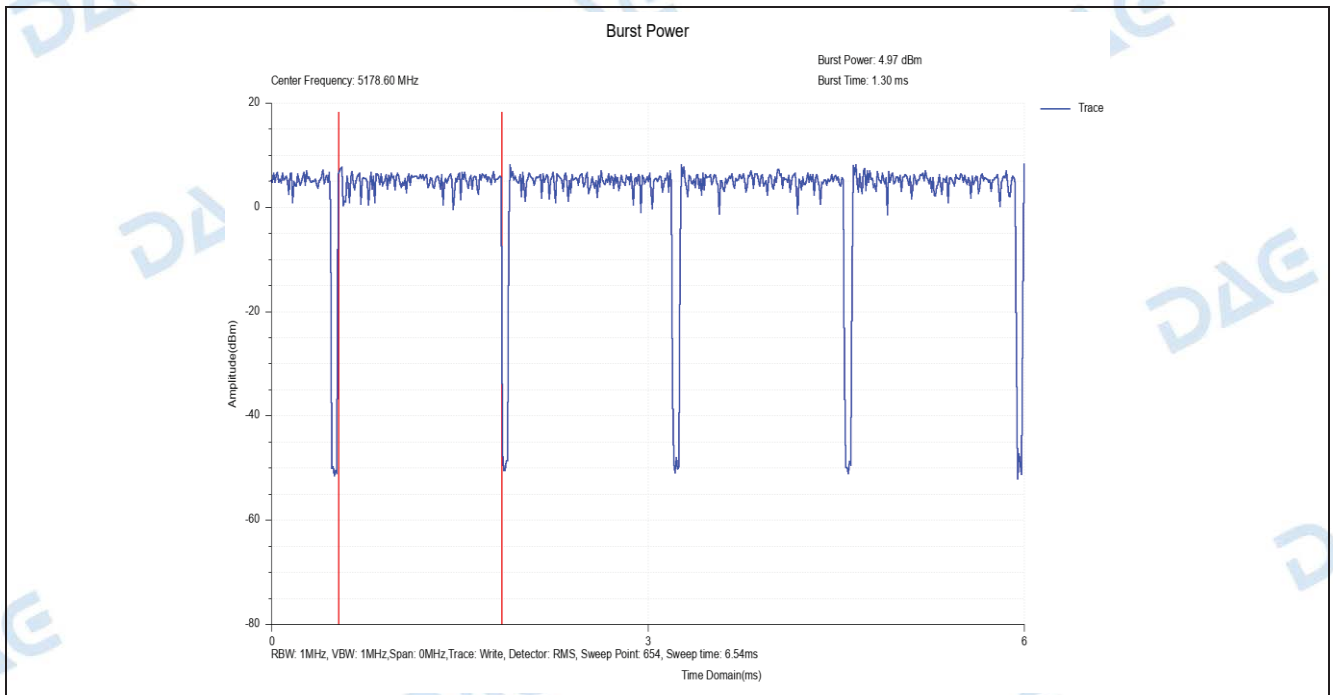


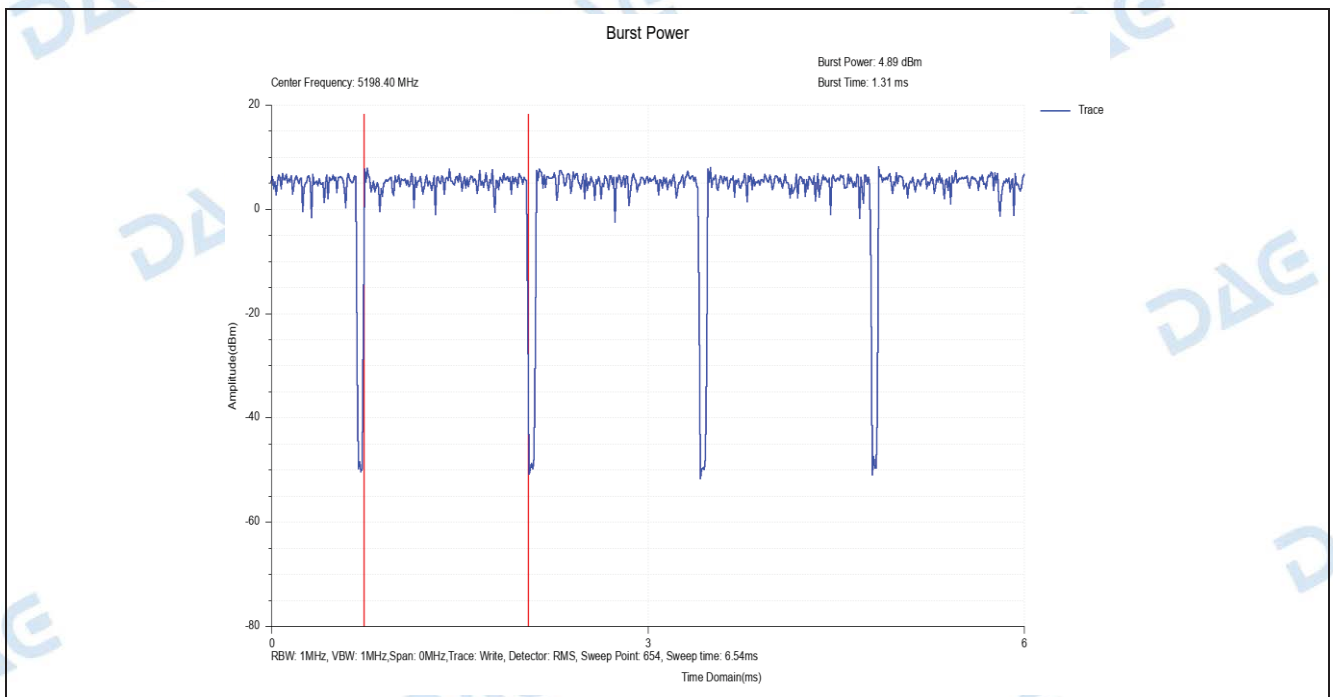
1_Conducted_Power_Frequency_NVNT_ANT1_802_11a_5240



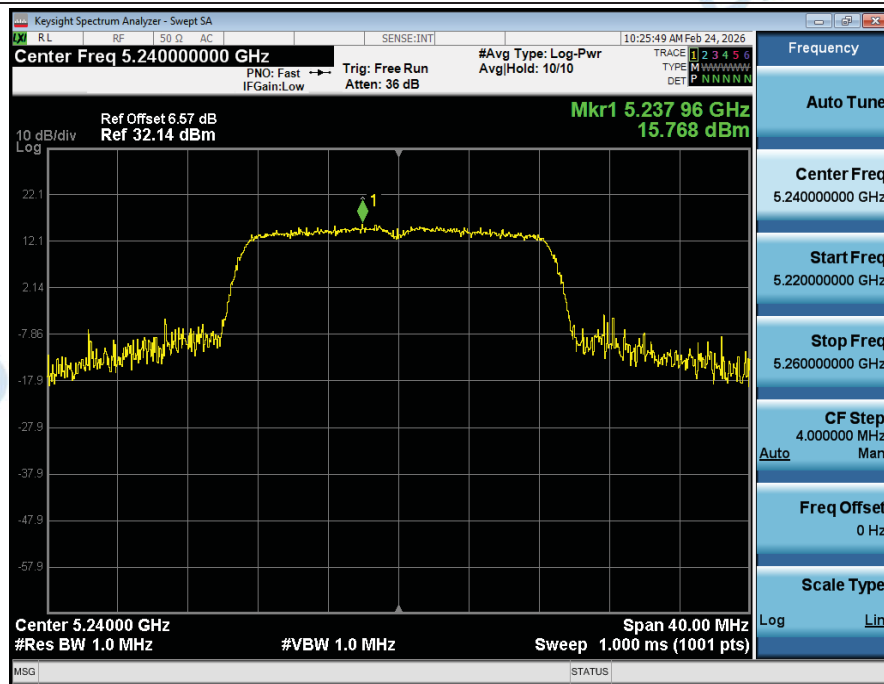
2_RF_output_power_&&_E_I_R_P(Without_TPC)_NVNT_ANT1_802_11a_5240



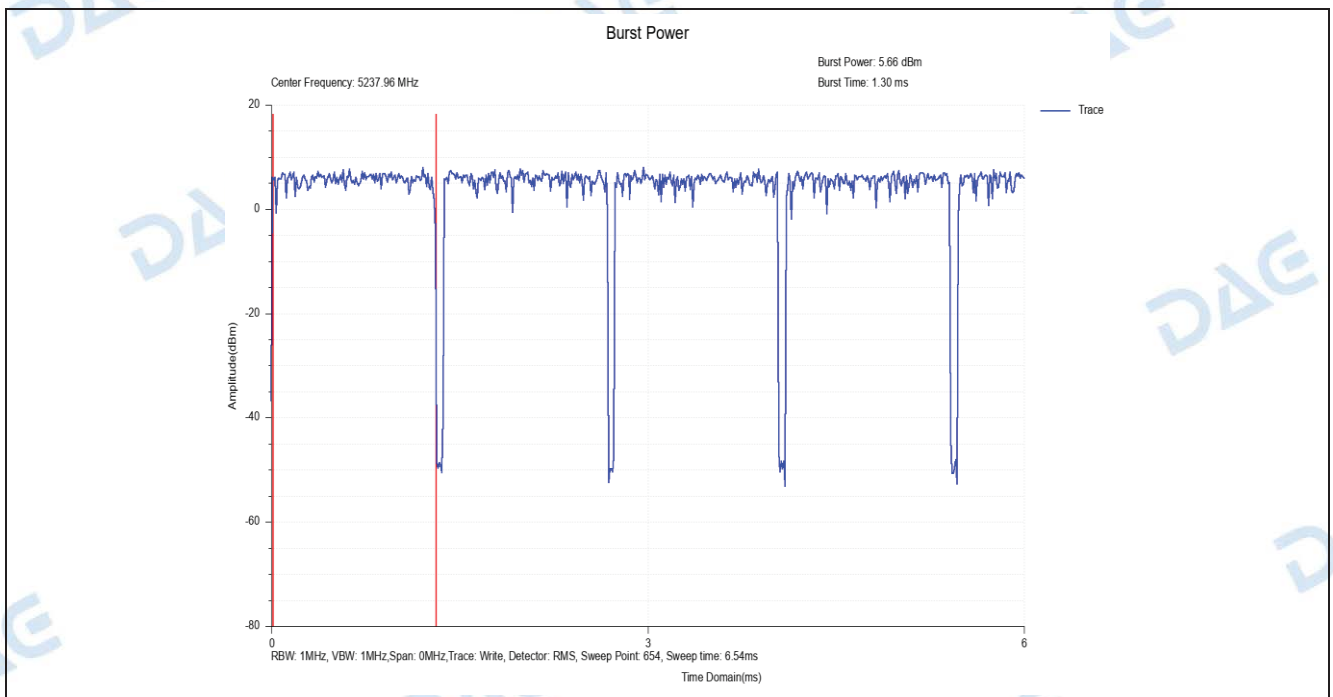




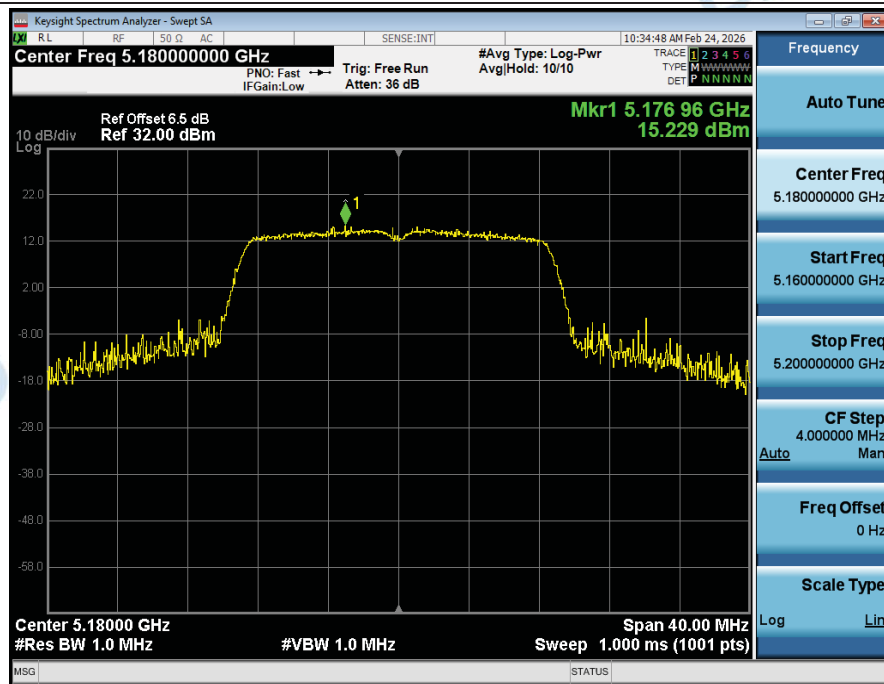
1_Conducted_Power_Frequency_NVNT_ANT1_802_11n(HT20)_5240



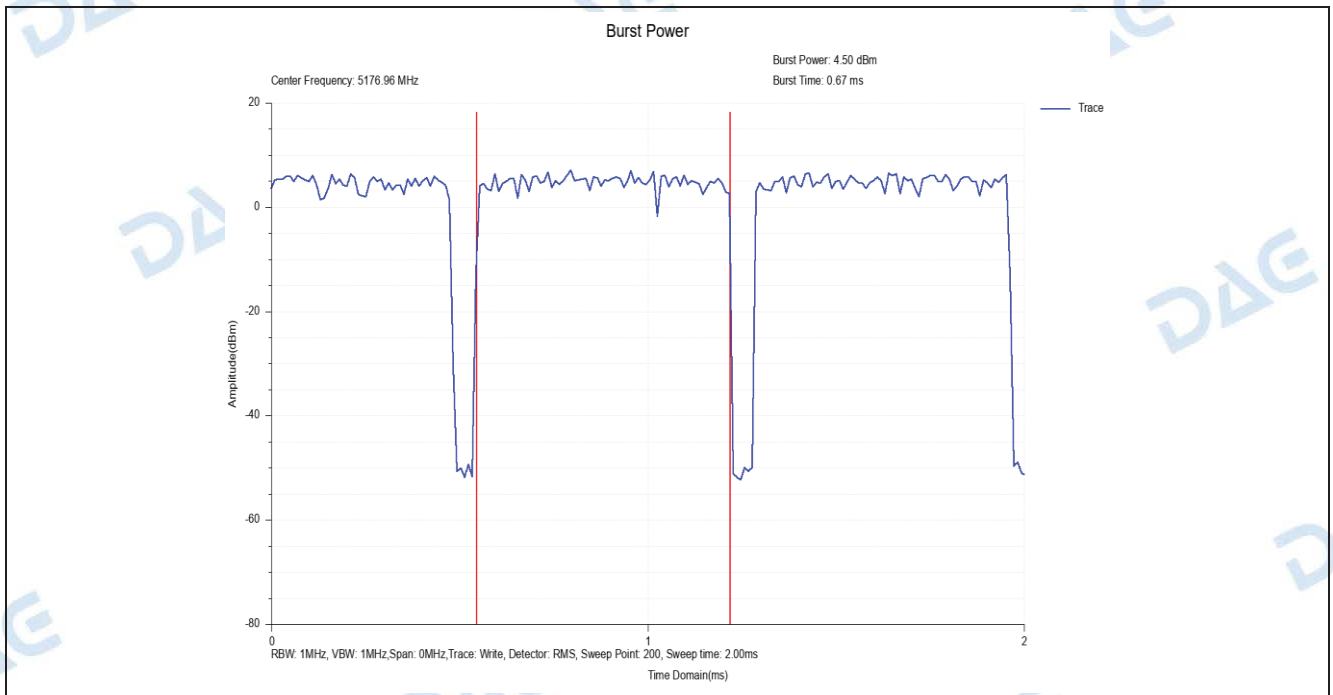
2_RF_output_power_&&_E_I_R_P(Without_TPC)_NVNT_ANT1_802_11n(HT20)_5240



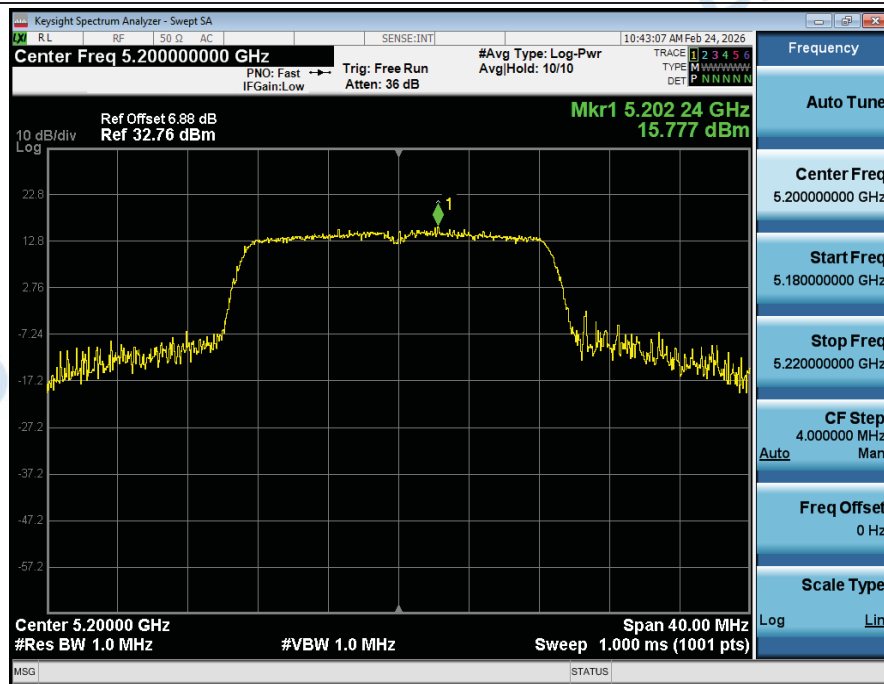
1_Conducted_Power_Frequency_NVNT_ANT1_802_11ac(VHT20)_5180



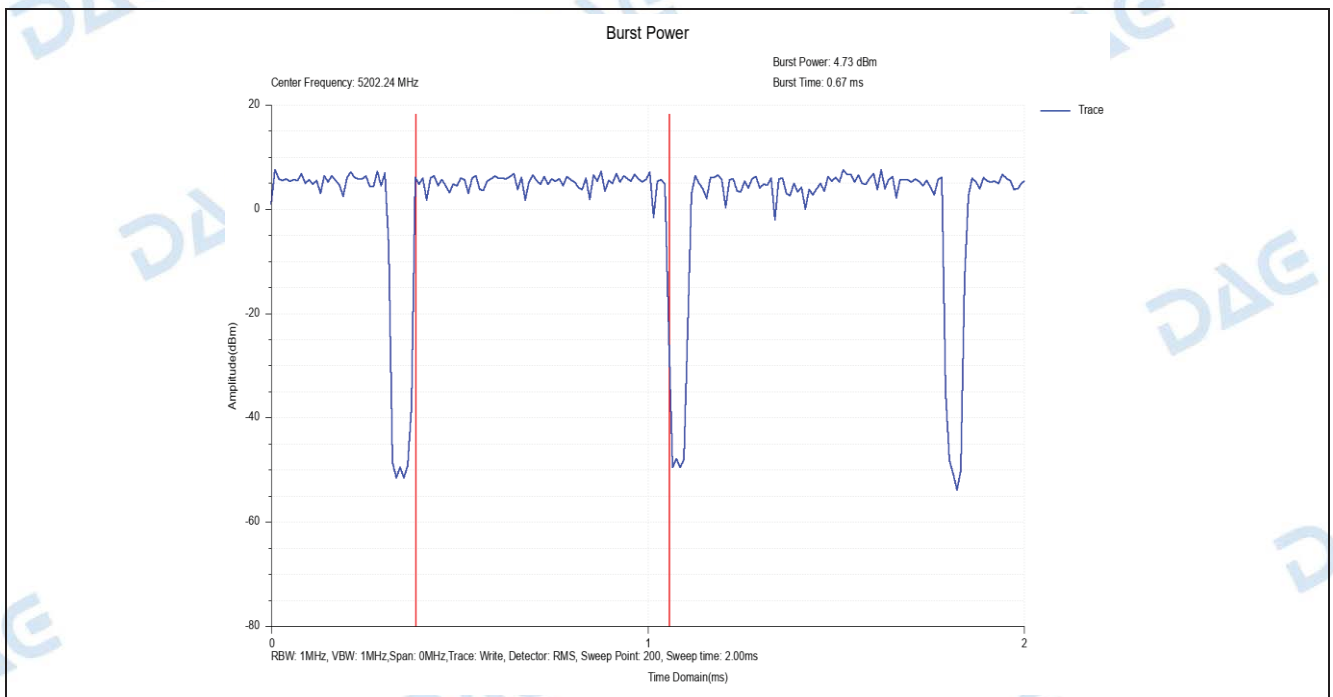
2_RF_output_power_&&_E_I_R_P(Without_TPC)_NVNT_ANT1_802_11ac(VHT20)_5180



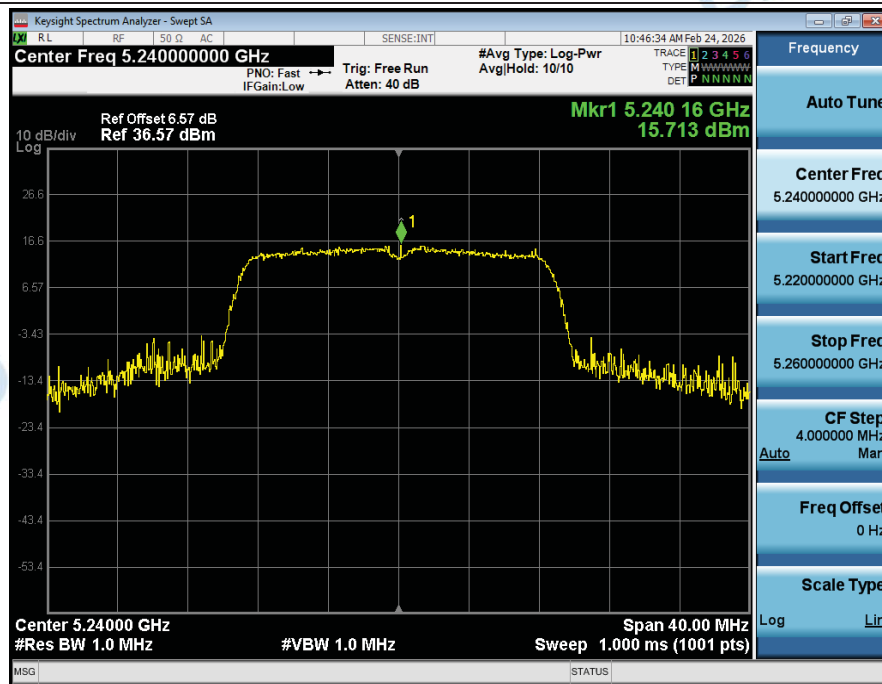
1_Conducted_Power_Frequency_NVNT_ANT1_802_11ac(VHT20)_5200



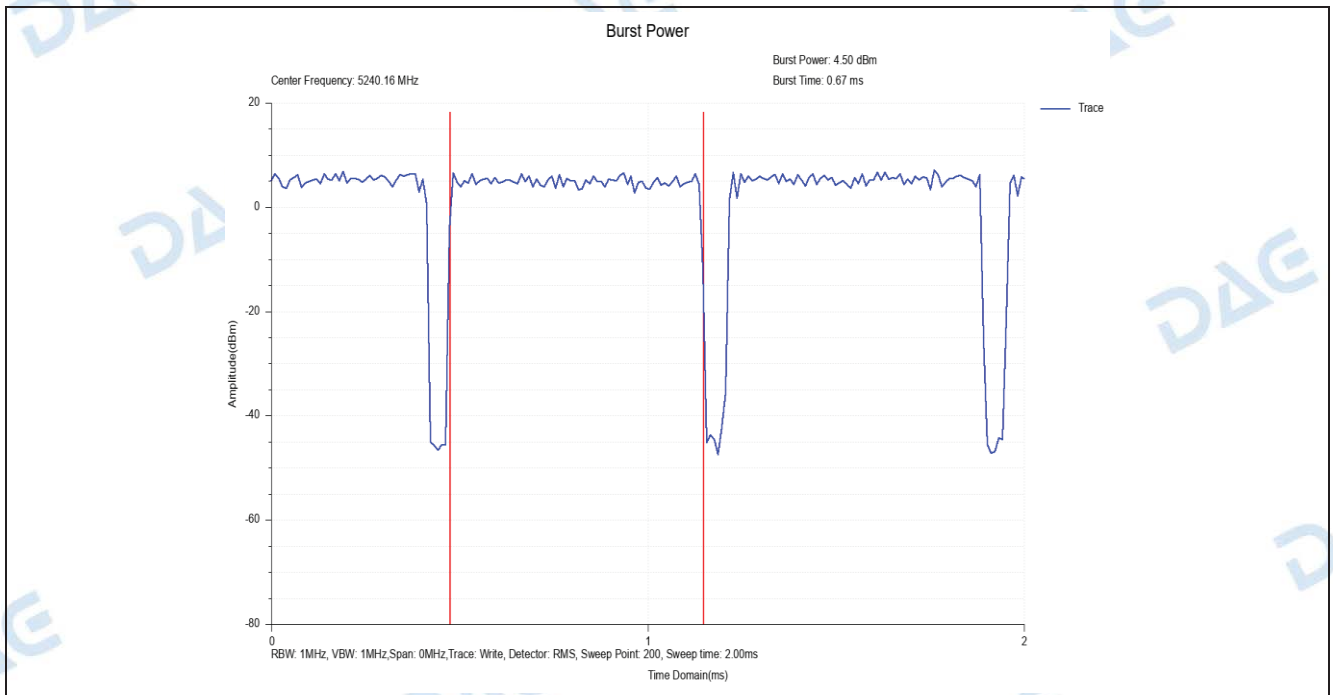
2_RF_output_power_&&_E_I_R_P(Without_TPC)_NVNT_ANT1_802_11ac(VHT20)_5200



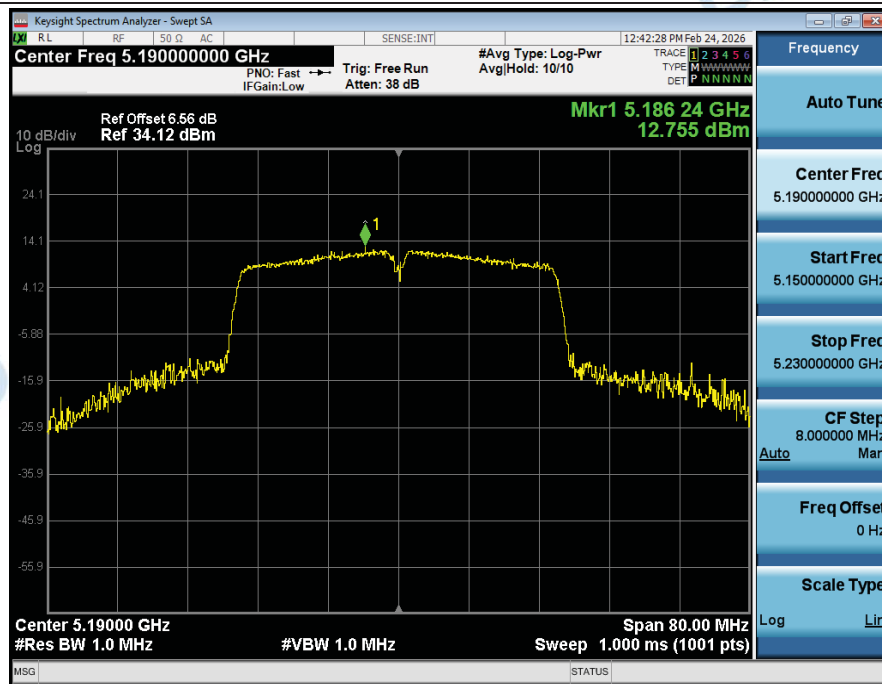
1_Conducted_Power_Frequency_NVNT_ANT1_802_11ac(VHT20)_5240



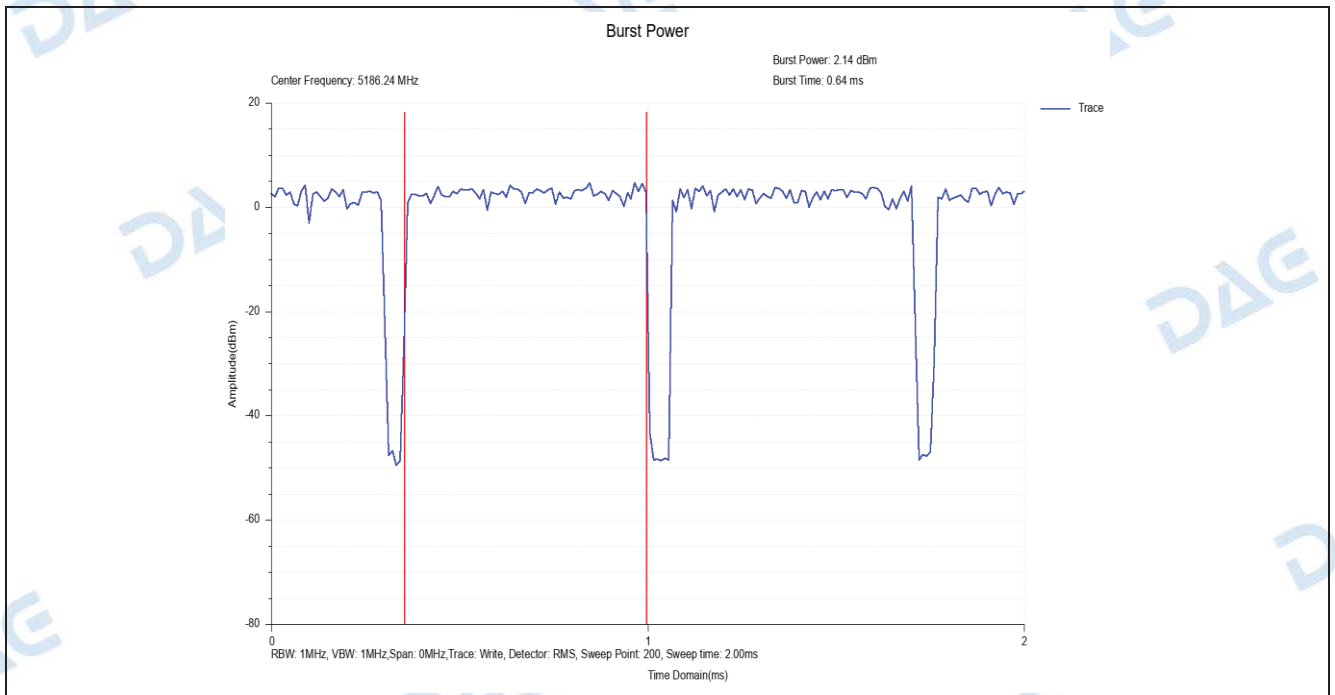
2_RF_output_power_&&_E_I_R_P(Without_TPC)_NVNT_ANT1_802_11ac(VHT20)_5240



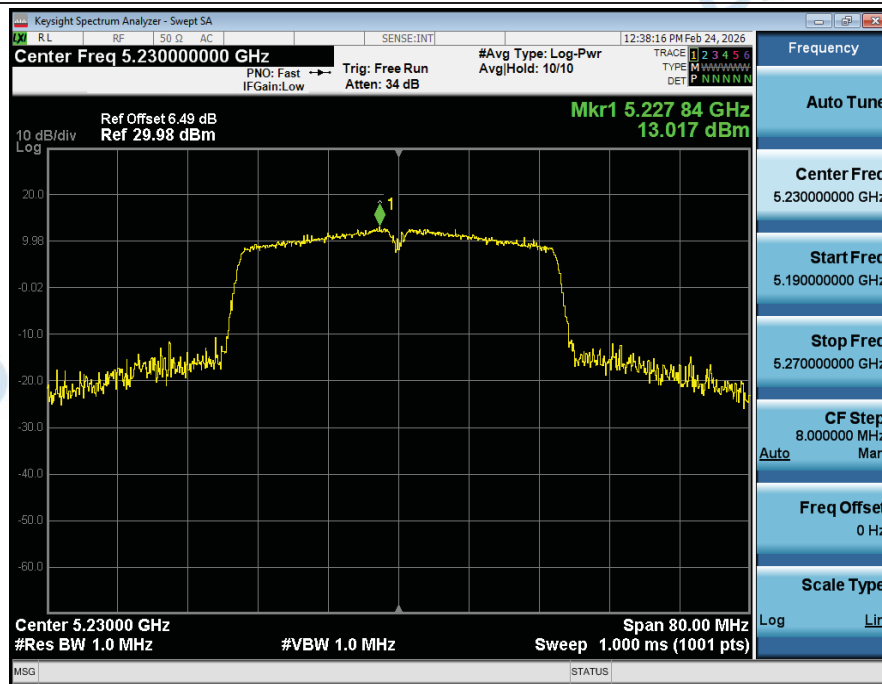
1_Conducted_Power_Frequency_NVNT_ANT1_802_11n(HT40)_5190



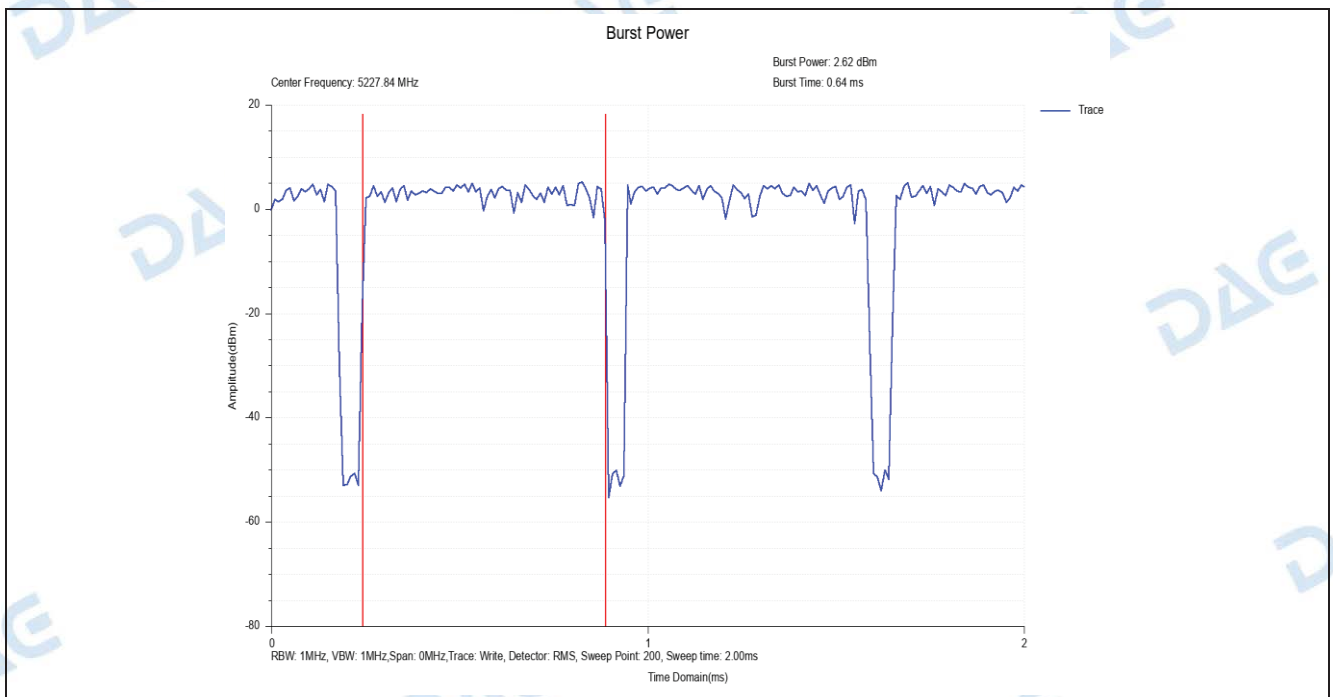
2_RF_output_power_&&_E_I_R_P(Without_TPC)_NVNT_ANT1_802_11n(HT40)_5190



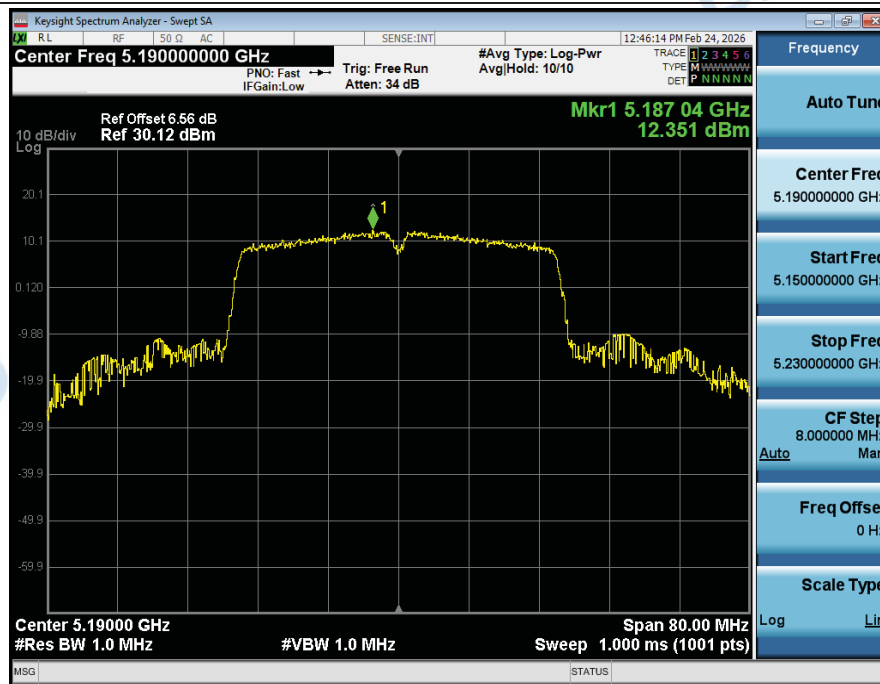
1_Conducted_Power_Frequency_NVNT_ANT1_802_11n(HT40)_5230



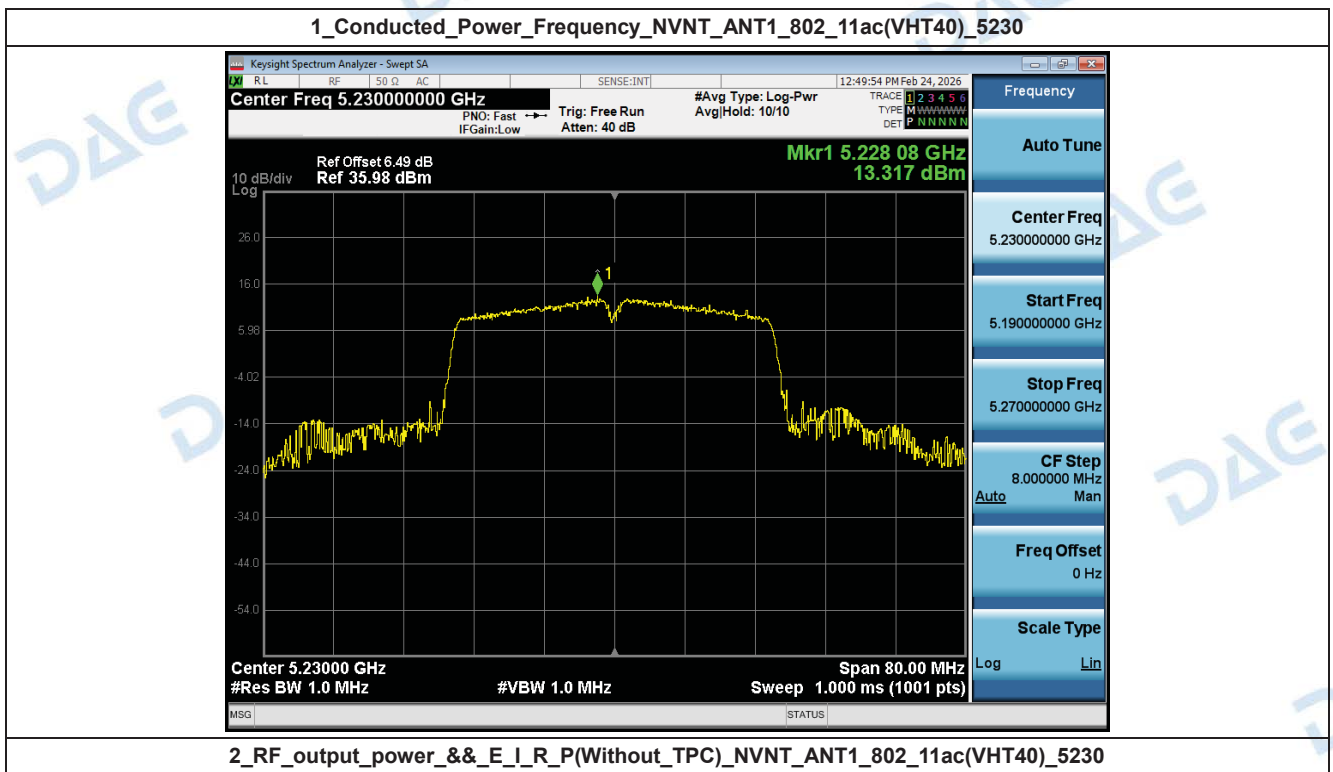
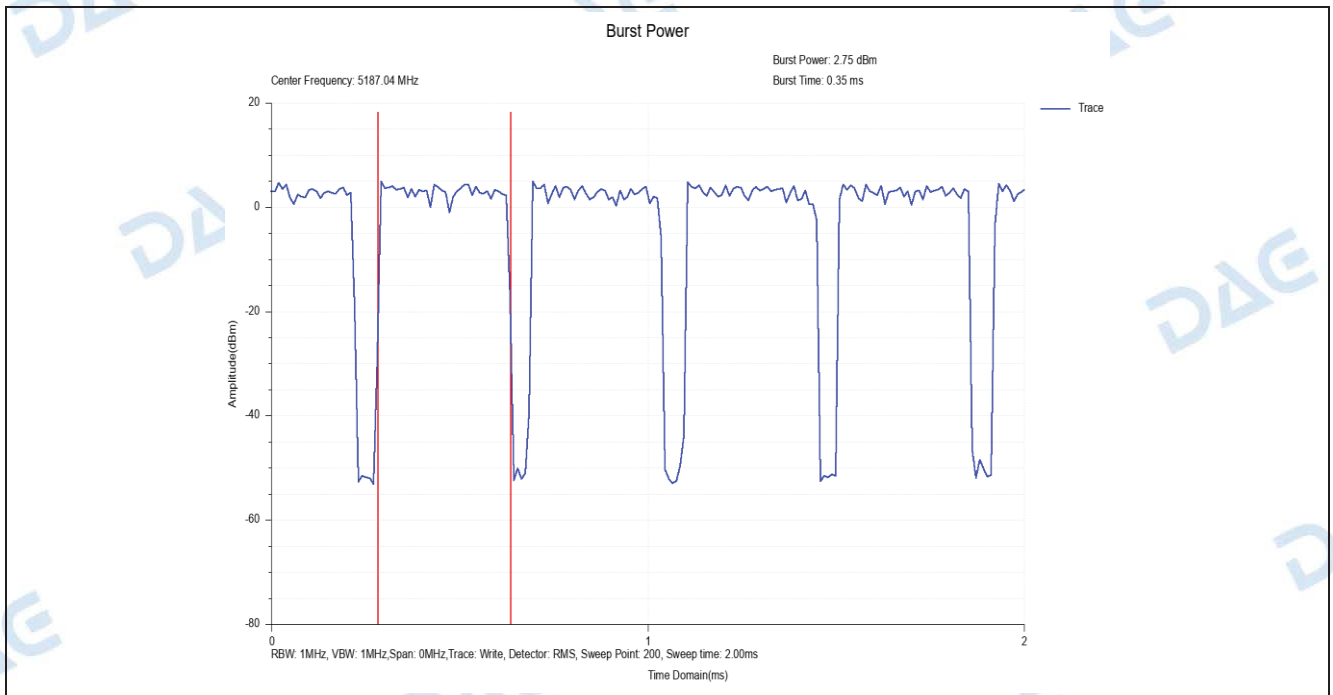
2_RF_output_power_&&_E_I_R_P(Without_TPC)_NVNT_ANT1_802_11n(HT40)_5230

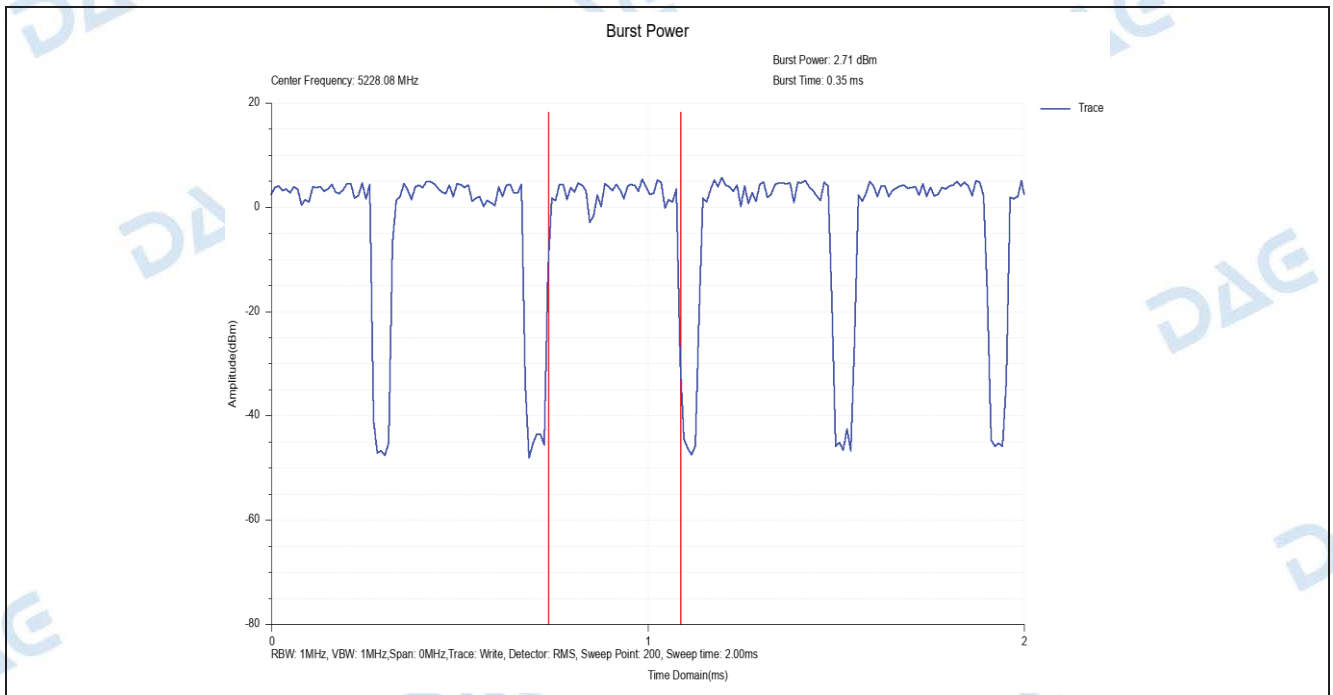


1_Conducted_Power_Frequency_NVNT_ANT1_802_11ac(VHT40)_5190



2_RF_output_power_&&_E_I_R_P(Without_TPC)_NVNT_ANT1_802_11ac(VHT40)_5190

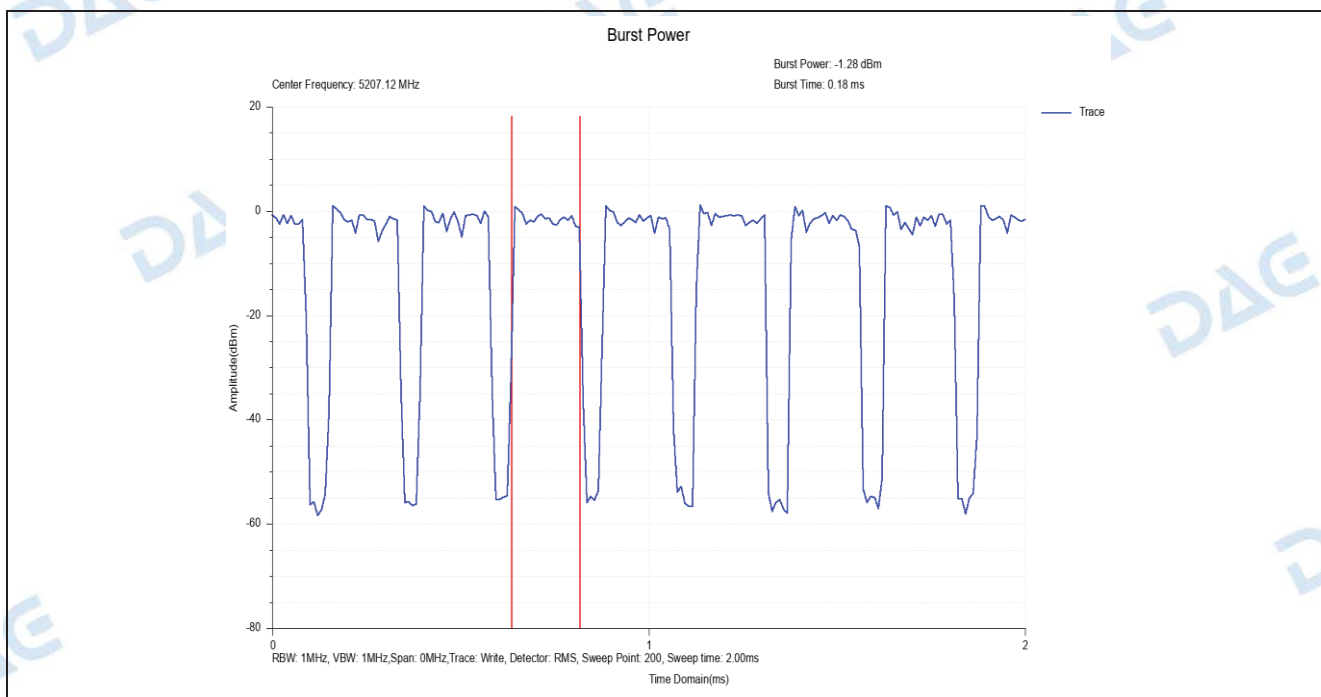




1_Conducted_Power_Frequency_NVNT_ANT1_802_11ac(VHT80)_5210



2_RF_output_power_&&_E_I_R_P(Without_TPC)_NVNT_ANT1_802_11ac(VHT80)_5210



Condition	Antenna	Mode	Frequency	Measured Power(dBm/MHz)	Antenna Gain(dBi)	EIRP(mW/MHz)	EIRP Limit(mW/MHz)	Result
NVNT	ANT1	802.11a	5180.00	4.44	3.5	6.22	10.00	Pass
NVNT	ANT1	802.11a	5200.00	4.70	3.5	6.61	10.00	Pass
NVNT	ANT1	802.11a	5240.00	4.79	3.5	6.75	10.00	Pass
NVNT	ANT1	802.11n(HT20)	5180.00	4.97	3.5	7.03	10.00	Pass
NVNT	ANT1	802.11n(HT20)	5200.00	4.89	3.5	6.90	10.00	Pass
NVNT	ANT1	802.11n(HT20)	5240.00	5.66	3.5	8.24	10.00	Pass
NVNT	ANT1	802.11ac(VHT20)	5180.00	4.50	3.5	6.31	10.00	Pass
NVNT	ANT1	802.11ac(VHT20)	5200.00	4.73	3.5	6.65	10.00	Pass
NVNT	ANT1	802.11ac(VHT20)	5240.00	4.50	3.5	6.31	10.00	Pass
NVNT	ANT1	802.11n(HT40)	5190.00	2.14	3.5	3.66	5.00	Pass
NVNT	ANT1	802.11n(HT40)	5230.00	2.62	3.5	4.09	5.00	Pass
NVNT	ANT1	802.11ac(VHT40)	5190.00	2.75	3.5	4.22	5.00	Pass
NVNT	ANT1	802.11ac(VHT40)	5230.00	2.71	3.5	4.18	5.00	Pass
NVNT	ANT1	802.11ac(VHT80)	5210.00	-1.28	3.5	1.67	2.50	Pass

5. Spurious Emissions

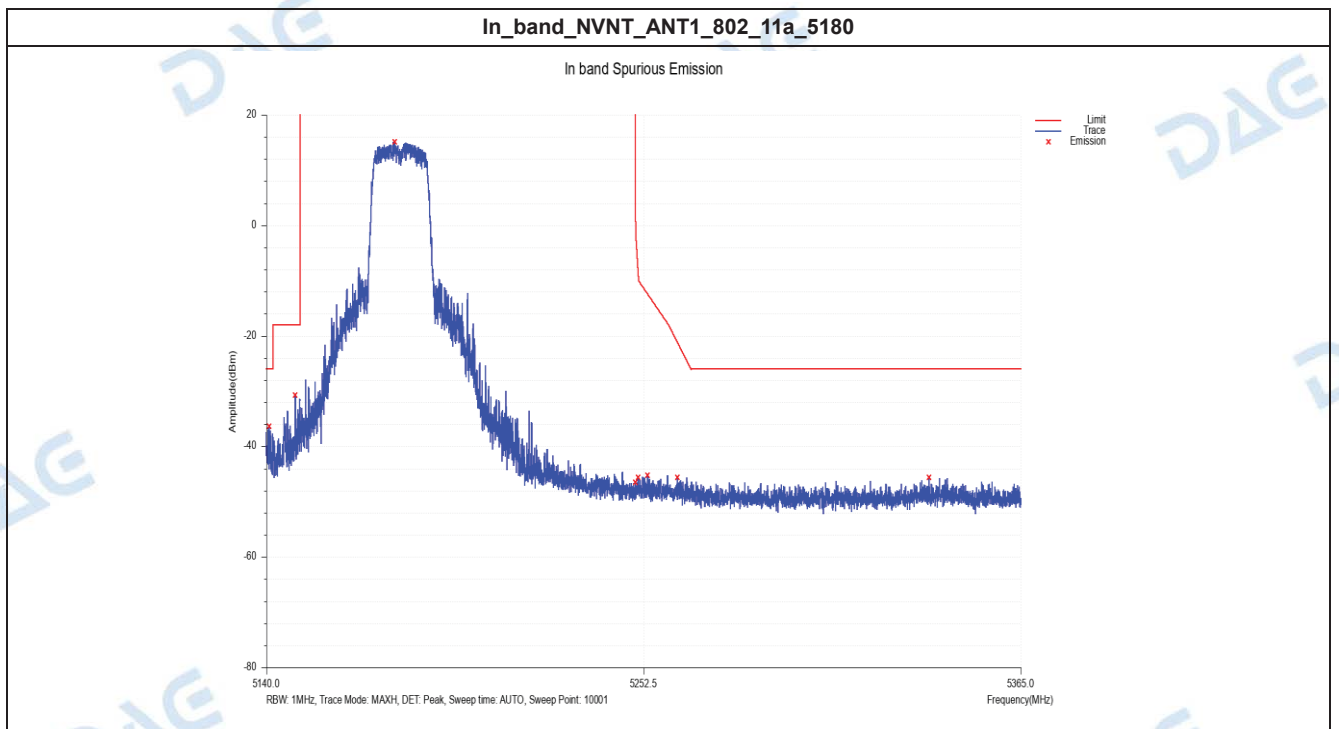
Condition	Antenna	Mode	TX Freq.(MHz)	Freq Range(MHz)	Spur. Freq.(MHz)	Amplitude(dBm/MHz)	Limit(dBm/MHz)	Spur. Level	Limit	Result
NVNT	ANT1	802.11a	5180.00	5140.0~5142.0	5140.743	-36.36	-26.00	0.2312μW/MHz	2.5μW/MHz	Pass
NVNT	ANT1	802.11a	5180.00	5142.0~5150.0	5148.640	-30.65	-18.00	0.8615μW/MHz	15μW/MHz	Pass
NVNT	ANT1	802.11a	5180.00	5250.0~5250.2	5250.047	-46.45	2.07	0.000023mW/MHz	1.609410mW/MHz	Pass
NVNT	ANT1	802.11a	5180.00	5250.2~5251.0	5250.925	-45.65	-9.25	0.000027mW/MHz	0.118850mW/MHz	Pass
NVNT	ANT1	802.11a	5180.00	5251.0~5260.0	5253.715	-45.23	-12.41	0.000030mW/MHz	0.057368mW/MHz	Pass
NVNT	ANT1	802.11a	5180.00	5260.0~5266.7	5262.580	-45.60	-21.10	0.000028mW/MHz	0.007770mW/MHz	Pass
NVNT	ANT1	802.11a	5180.00	5266.7~5365.0	5337.640	-45.54	-26.00	0.0279μW/MHz	2.5μW/MHz	Pass
NVNT	ANT1	802.11a	5180.00	30.0~5140.0	5139.625	-40.95	-26.00	0.0803μW/MHz	2.5μW/MHz	Pass
NVNT	ANT1	802.11a	5180.00	5365.0~10000.0	7096.736	-45.57	-26.00	0.0277μW/MHz	2.5μW/MHz	Pass
NVNT	ANT1	802.11a	5180.00	10000.0~26000.0	10366.400	-41.85	-26.00	0.0653μW/MHz	2.5μW/MHz	Pass
NVNT	ANT1	802.11a	5200.00	5140.0~5142.0	5141.417	-43.08	-26.00	0.0491μW/MHz	2.5μW/MHz	Pass
NVNT	ANT1	802.11a	5200.00	5142.0~5150.0	5143.870	-40.27	-18.00	0.0940μW/MHz	15μW/MHz	Pass
NVNT	ANT1	802.11a	5200.00	5250.0~5250.2	5250.002	-44.40	3.27	0.000036mW/MHz	2.121615mW/MHz	Pass
NVNT	ANT1	802.11a	5200.00	5250.2~5251.0	5250.318	-42.62	-3.18	0.000055mW/MHz	0.481393mW/MHz	Pass
NVNT	ANT1	802.11a	5200.00	5251.0~5260.0	5256.955	-42.32	-15.29	0.000059mW/MHz	0.029557mW/MHz	Pass
NVNT	ANT1	802.11a	5200.00	5260.0~5266.7	5262.377	-44.52	-20.85	0.000035mW/MHz	0.008217mW/MHz	Pass
NVNT	ANT1	802.11a	5200.00	5266.7~5365.0	5274.932	-44.18	-26.00	0.0381μW/MHz	2.5μW/MHz	Pass
NVNT	ANT1	802.11a	5200.00	30.0~5140.0	5138.628	-42.61	-26.00	0.0547μW/MHz	2.5μW/MHz	Pass
NVNT	ANT1	802.11a	5200.00	5365.0~10000.0	7109.697	-45.29	-26.00	0.0295μW/MHz	2.5μW/MHz	Pass
NVNT	ANT1	802.11a	5200.00	10000.0~26000.0	10404.800	-38.12	-26.00	0.1541μW/MHz	2.5μW/MHz	Pass
NVNT	ANT1	802.11a	5240.00	5140.0~5142.0	5140.675	-46.36	-26.00	0.0231μW/MHz	2.5μW/MHz	Pass
NVNT	ANT1	802.11a	5240.00	5142.0~5150.0	5143.375	-46.70	-18.00	0.0213μW/MHz	15μW/MHz	Pass
NVNT	ANT1	802.11a	5240.00	5250.0~5250.2	5250.002	-18.45	3.27	0.014294mW/MHz	2.121615mW/MHz	Pass
NVNT	ANT1	802.11a	5240.00	5250.2~5251.0	5250.880	-23.32	-8.80	0.004658mW/MHz	0.131826mW/MHz	Pass
NVNT	ANT1	802.11a	5240.00	5251.0~5260.0	5251.757	-19.42	-10.67	0.011428mW/MHz	0.085638mW/MHz	Pass
NVNT	ANT1	802.11a	5240.00	5260.0~5266.7	5263.682	-32.33	-22.42	0.000584mW/MHz	0.005729mW/MHz	Pass
NVNT	ANT1	802.11a	5240.00	5266.7~5365.0	5272.727	-36.57	-26.00	0.2201μW/MHz	2.5μW/MHz	Pass
NVNT	ANT1	802.11a	5240.00	30.0~5140.0	5078.808	-44.43	-26.00	0.0360μW/MHz	2.5μW/MHz	Pass

NVNT	ANT1	802.11a	5240.00	5365.0~1000 0.0	5810.60 6	-45.04	-26.00	0.0313μW/M Hz	2.5μW/MHz	Pass
NVNT	ANT1	802.11a	5240.00	10000.0~260 00.0	10478.4 00	-41.35	-26.00	0.0733μW/M Hz	2.5μW/MHz	Pass
NVNT	ANT1	802.11n(HT2 0)	5180.00	5140.0~5142 .0	5141.77 8	-34.57	-26.00	0.3488μW/M Hz	2.5μW/MHz	Pass
NVNT	ANT1	802.11n(HT2 0)	5180.00	5142.0~5150 .0	5145.96 2	-32.20	-18.00	0.6022μW/M Hz	15μW/MHz	Pass
NVNT	ANT1	802.11n(HT2 0)	5180.00	5250.0~5250 .2	5250.04 7	-47.45	2.07	0.000018mW/ MHz	1.609410mW/ MHz	Pass
NVNT	ANT1	802.11n(HT2 0)	5180.00	5250.2~5251 .0	5250.74 5	-46.73	-7.45	0.000021mW/ MHz	0.179887mW/ MHz	Pass
NVNT	ANT1	802.11n(HT2 0)	5180.00	5251.0~5260 .0	5256.03 3	-45.18	-14.47	0.000030mW/ MHz	0.035700mW/ MHz	Pass
NVNT	ANT1	802.11n(HT2 0)	5180.00	5260.0~5266 .7	5264.08 7	-45.59	-22.90	0.000028mW/ MHz	0.005123mW/ MHz	Pass
NVNT	ANT1	802.11n(HT2 0)	5180.00	5266.7~5365 .0	5303.82 3	-45.29	-26.00	0.0296μW/M Hz	2.5μW/MHz	Pass
NVNT	ANT1	802.11n(HT2 0)	5180.00	30.0~5140.0	5139.62 5	-41.56	-26.00	0.0698μW/M Hz	2.5μW/MHz	Pass
NVNT	ANT1	802.11n(HT2 0)	5180.00	5365.0~1000 0.0	5747.79 5	-45.81	-26.00	0.0262μW/M Hz	2.5μW/MHz	Pass
NVNT	ANT1	802.11n(HT2 0)	5180.00	10000.0~260 00.0	10358.4 00	-41.81	-26.00	0.0658μW/M Hz	2.5μW/MHz	Pass
NVNT	ANT1	802.11n(HT2 0)	5200.00	5140.0~5142 .0	5141.82 3	-40.13	-26.00	0.0971μW/M Hz	2.5μW/MHz	Pass
NVNT	ANT1	802.11n(HT2 0)	5200.00	5142.0~5150 .0	5148.55 0	-36.43	-18.00	0.2275μW/M Hz	15μW/MHz	Pass
NVNT	ANT1	802.11n(HT2 0)	5200.00	5250.0~5250 .2	5250.09 2	-41.83	0.87	0.000066mW/ MHz	1.220862mW/ MHz	Pass
NVNT	ANT1	802.11n(HT2 0)	5200.00	5250.2~5251 .0	5250.81 3	-35.99	-8.13	0.000252mW/ MHz	0.153993mW/ MHz	Pass
NVNT	ANT1	802.11n(HT2 0)	5200.00	5251.0~5260 .0	5251.42 0	-37.91	-10.37	0.000162mW/ MHz	0.091763mW/ MHz	Pass
NVNT	ANT1	802.11n(HT2 0)	5200.00	5260.0~5266 .7	5262.37 7	-42.65	-20.85	0.000054mW/ MHz	0.008217mW/ MHz	Pass
NVNT	ANT1	802.11n(HT2 0)	5200.00	5266.7~5365 .0	5278.01 5	-43.87	-26.00	0.0410μW/M Hz	2.5μW/MHz	Pass
NVNT	ANT1	802.11n(HT2 0)	5200.00	30.0~5140.0	5139.62 5	-43.23	-26.00	0.0474μW/M Hz	2.5μW/MHz	Pass
NVNT	ANT1	802.11n(HT2 0)	5200.00	5365.0~1000 0.0	5873.41 7	-44.52	-26.00	0.0352μW/M Hz	2.5μW/MHz	Pass
NVNT	ANT1	802.11n(HT2 0)	5200.00	10000.0~260 00.0	10406.4 00	-38.62	-26.00	0.1374μW/M Hz	2.5μW/MHz	Pass
NVNT	ANT1	802.11n(HT2 0)	5240.00	5140.0~5142 .0	5141.98 0	-46.89	-26.00	0.0204μW/M Hz	2.5μW/MHz	Pass
NVNT	ANT1	802.11n(HT2 0)	5240.00	5142.0~5150 .0	5149.47 2	-44.26	-18.00	0.0374μW/M Hz	15μW/MHz	Pass
NVNT	ANT1	802.11n(HT2 0)	5240.00	5250.0~5250 .2	5250.04 7	-11.70	2.07	0.067554mW/ MHz	1.609410mW/ MHz	Pass
NVNT	ANT1	802.11n(HT2 0)	5240.00	5250.2~5251 .0	5250.22 7	-16.20	-2.27	0.023991mW/ MHz	0.592243mW/ MHz	Pass
NVNT	ANT1	802.11n(HT2 0)	5240.00	5251.0~5260 .0	5252.50 0	-17.86	-11.33	0.016385mW/ MHz	0.073564mW/ MHz	Pass
NVNT	ANT1	802.11n(HT2 0)	5240.00	5260.0~5266 .7	5261.29 7	-24.33	-19.56	0.003687mW/ MHz	0.011074mW/ MHz	Pass
NVNT	ANT1	802.11n(HT2 0)	5240.00	5266.7~5365 .0	5267.41 7	-29.71	-26.00	1.0681μW/M Hz	2.5μW/MHz	Pass
NVNT	ANT1	802.11n(HT2 0)	5240.00	30.0~5140.0	5058.86 8	-44.93	-26.00	0.0321μW/M Hz	2.5μW/MHz	Pass

NVNT	ANT1	802.11n(HT20)	5240.00	5365.0~10000.0	5925.261	-44.78	-26.00	0.0332μW/MHz	2.5μW/MHz	Pass
NVNT	ANT1	802.11n(HT20)	5240.00	10000.0~26000.0	10486.400	-40.23	-26.00	0.0947μW/MHz	2.5μW/MHz	Pass
NVNT	ANT1	802.11ac(VHT20)	5180.00	5140.0~5142.0	5141.125	-30.36	-26.00	0.9199μW/MHz	2.5μW/MHz	Pass
NVNT	ANT1	802.11ac(VHT20)	5180.00	5142.0~5150.0	5147.020	-26.93	-18.00	2.0281μW/MHz	15μW/MHz	Pass
NVNT	ANT1	802.11ac(VHT20)	5180.00	5250.0~5250.2	5250.182	-46.12	-1.53	0.000024mW/MHz	0.702533mW/MHz	Pass
NVNT	ANT1	802.11ac(VHT20)	5180.00	5250.2~5251.0	5250.745	-45.65	-7.45	0.000027mW/MHz	0.179887mW/MHz	Pass
NVNT	ANT1	802.11ac(VHT20)	5180.00	5251.0~5260.0	5259.835	-45.38	-17.85	0.000029mW/MHz	0.016393mW/MHz	Pass
NVNT	ANT1	802.11ac(VHT20)	5180.00	5260.0~5266.7	5260.915	-45.59	-19.10	0.000028mW/MHz	0.012308mW/MHz	Pass
NVNT	ANT1	802.11ac(VHT20)	5180.00	5266.7~5365.0	5300.583	-46.03	-26.00	0.0249μW/MHz	2.5μW/MHz	Pass
NVNT	ANT1	802.11ac(VHT20)	5180.00	30.0~5140.0	5135.637	-35.62	-26.00	0.2739μW/MHz	2.5μW/MHz	Pass
NVNT	ANT1	802.11ac(VHT20)	5180.00	5365.0~10000.0	5370.929	-45.64	-26.00	0.0273μW/MHz	2.5μW/MHz	Pass
NVNT	ANT1	802.11ac(VHT20)	5180.00	10000.0~26000.0	10363.200	-39.71	-26.00	0.1068μW/MHz	2.5μW/MHz	Pass
NVNT	ANT1	802.11ac(VHT20)	5200.00	5140.0~5142.0	5141.710	-41.89	-26.00	0.0647μW/MHz	2.5μW/MHz	Pass
NVNT	ANT1	802.11ac(VHT20)	5200.00	5142.0~5150.0	5146.255	-37.69	-18.00	0.1700μW/MHz	15μW/MHz	Pass
NVNT	ANT1	802.11ac(VHT20)	5200.00	5250.0~5250.2	5250.182	-42.80	-1.53	0.000053mW/MHz	0.702533mW/MHz	Pass
NVNT	ANT1	802.11ac(VHT20)	5200.00	5250.2~5251.0	5250.453	-41.51	-4.53	0.000071mW/MHz	0.352777mW/MHz	Pass
NVNT	ANT1	802.11ac(VHT20)	5200.00	5251.0~5260.0	5251.488	-40.47	-10.43	0.000090mW/MHz	0.090504mW/MHz	Pass
NVNT	ANT1	802.11ac(VHT20)	5200.00	5260.0~5266.7	5261.770	-43.87	-20.12	0.000041mW/MHz	0.009719mW/MHz	Pass
NVNT	ANT1	802.11ac(VHT20)	5200.00	5266.7~5365.0	5280.580	-43.19	-26.00	0.0479μW/MHz	2.5μW/MHz	Pass
NVNT	ANT1	802.11ac(VHT20)	5200.00	30.0~5140.0	5134.640	-41.30	-26.00	0.0742μW/MHz	2.5μW/MHz	Pass
NVNT	ANT1	802.11ac(VHT20)	5200.00	5365.0~10000.0	5411.806	-44.78	-26.00	0.0332μW/MHz	2.5μW/MHz	Pass
NVNT	ANT1	802.11ac(VHT20)	5200.00	10000.0~26000.0	10401.600	-38.68	-26.00	0.1354μW/MHz	2.5μW/MHz	Pass
NVNT	ANT1	802.11ac(VHT20)	5240.00	5140.0~5142.0	5140.113	-46.41	-26.00	0.0228μW/MHz	2.5μW/MHz	Pass
NVNT	ANT1	802.11ac(VHT20)	5240.00	5142.0~5150.0	5149.248	-45.36	-18.00	0.0291μW/MHz	15μW/MHz	Pass
NVNT	ANT1	802.11ac(VHT20)	5240.00	5250.0~5250.2	5250.002	-12.35	3.27	0.058144mW/MHz	2.121615mW/MHz	Pass
NVNT	ANT1	802.11ac(VHT20)	5240.00	5250.2~5251.0	5250.205	-16.29	-2.05	0.023518mW/MHz	0.623735mW/MHz	Pass
NVNT	ANT1	802.11ac(VHT20)	5240.00	5251.0~5260.0	5251.285	-18.54	-10.25	0.013994mW/MHz	0.094334mW/MHz	Pass
NVNT	ANT1	802.11ac(VHT20)	5240.00	5260.0~5266.7	5260.038	-31.84	-18.05	0.000655mW/MHz	0.015686mW/MHz	Pass
NVNT	ANT1	802.11ac(VHT20)	5240.00	5266.7~5365.0	5267.597	-35.64	-26.00	0.2729μW/MHz	2.5μW/MHz	Pass
NVNT	ANT1	802.11ac(VHT20)	5240.00	30.0~5140.0	5130.652	-45.69	-26.00	0.0269μW/MHz	2.5μW/MHz	Pass

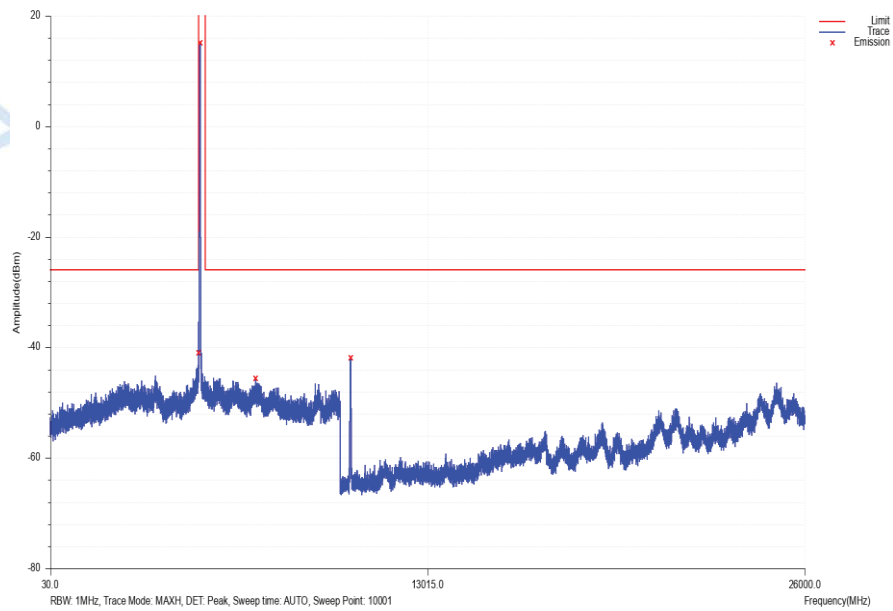
NVNT	ANT1	802.11ac(VH T20)	5240.00	5365.0~1000 0.0	7739.80 1	-45.51	-26.00	0.0281μW/M Hz	2.5μW/MHz	Pass
NVNT	ANT1	802.11ac(VH T20)	5240.00	10000.0~260 00.0	10475.2 00	-41.72	-26.00	0.0673μW/M Hz	2.5μW/MHz	Pass
NVNT	ANT1	802.11n(HT4 0)	5190.00	5100.0~5141 .6	5134.20 0	-27.79	-26.00	1.6621μW/M Hz	2.5μW/MHz	Pass
NVNT	ANT1	802.11n(HT4 0)	5190.00	5141.6~5150 .0	5147.25 0	-21.46	-18.00	7.1375μW/M Hz	15μW/MHz	Pass
NVNT	ANT1	802.11n(HT4 0)	5190.00	5250.0~5251 .0	5250.63 0	-30.40	-9.31	0.000912mW/ MHz	0.117211mW/ MHz	Pass
NVNT	ANT1	802.11n(HT4 0)	5190.00	5251.0~5270 .0	5251.53 0	-30.62	-13.23	0.000866mW/ MHz	0.047496mW/ MHz	Pass
NVNT	ANT1	802.11n(HT4 0)	5190.00	5270.0~5278 .4	5272.62 0	-40.74	-22.58	0.000084mW/ MHz	0.005518mW/ MHz	Pass
NVNT	ANT1	802.11n(HT4 0)	5190.00	5278.4~5400 .0	5280.90 0	-40.96	-26.00	0.0802μW/M Hz	2.5μW/MHz	Pass
NVNT	ANT1	802.11n(HT4 0)	5190.00	30.0~5100.0	5083.79 3	-40.04	-26.00	0.0990μW/M Hz	2.5μW/MHz	Pass
NVNT	ANT1	802.11n(HT4 0)	5190.00	5400.0~1000 0.0	5423.77 0	-45.63	-26.00	0.0273μW/M Hz	2.5μW/MHz	Pass
NVNT	ANT1	802.11n(HT4 0)	5190.00	10000.0~260 00.0	10371.2 00	-42.09	-26.00	0.0617μW/M Hz	2.5μW/MHz	Pass
NVNT	ANT1	802.11n(HT4 0)	5230.00	5100.0~5141 .6	5140.41 0	-39.49	-26.00	0.1123μW/MH z	2.5μW/MHz	Pass
NVNT	ANT1	802.11n(HT4 0)	5230.00	5141.6~5150 .0	5149.77 0	-36.11	-18.00	0.2451μW/M Hz	15μW/MHz	Pass
NVNT	ANT1	802.11n(HT4 0)	5230.00	5250.0~5251 .0	5250.21 0	-18.13	-5.11	0.015375mW/ MHz	0.308298mW/ MHz	Pass
NVNT	ANT1	802.11n(HT4 0)	5230.00	5251.0~5270 .0	5251.44 0	-14.87	-13.20	0.032586mW/ MHz	0.047912mW/ MHz	Pass
NVNT	ANT1	802.11n(HT4 0)	5230.00	5270.0~5278 .4	5273.52 0	-23.70	-23.12	0.004267mW/ MHz	0.004873mW/ MHz	Pass
NVNT	ANT1	802.11n(HT4 0)	5230.00	5278.4~5400 .0	5279.22 0	-28.95	-26.00	1.2744μW/M Hz	2.5μW/MHz	Pass
NVNT	ANT1	802.11n(HT4 0)	5230.00	30.0~5100.0	5081.79 9	-44.54	-26.00	0.0351μW/M Hz	2.5μW/MHz	Pass
NVNT	ANT1	802.11n(HT4 0)	5230.00	5400.0~1000 0.0	5770.72 6	-45.60	-26.00	0.0275μW/M Hz	2.5μW/MHz	Pass
NVNT	ANT1	802.11n(HT4 0)	5230.00	10000.0~260 00.0	10457.6 00	-40.78	-26.00	0.0836μW/M Hz	2.5μW/MHz	Pass
NVNT	ANT1	802.11ac(VH T40)	5190.00	5100.0~5141 .6	5136.75 0	-29.54	-26.00	1.1110μW/MH z	2.5μW/MHz	Pass
NVNT	ANT1	802.11ac(VH T40)	5190.00	5141.6~5150 .0	5148.42 0	-25.81	-18.00	2.6227μW/M Hz	15μW/MHz	Pass
NVNT	ANT1	802.11ac(VH T40)	5190.00	5250.0~5251 .0	5250.06 0	-34.84	-3.61	0.000328mW/ MHz	0.435482mW/ MHz	Pass
NVNT	ANT1	802.11ac(VH T40)	5190.00	5251.0~5270 .0	5259.81 0	-31.32	-16.72	0.000739mW/ MHz	0.021282mW/ MHz	Pass
NVNT	ANT1	802.11ac(VH T40)	5190.00	5270.0~5278 .4	5275.65 0	-38.05	-24.40	0.000157mW/ MHz	0.003631mW/ MHz	Pass
NVNT	ANT1	802.11ac(VH T40)	5190.00	5278.4~5400 .0	5278.53 0	-39.24	-26.00	0.1191μW/MH z	2.5μW/MHz	Pass
NVNT	ANT1	802.11ac(VH T40)	5190.00	30.0~5100.0	5099.74 5	-39.31	-26.00	0.1171μW/MH z	2.5μW/MHz	Pass
NVNT	ANT1	802.11ac(VH T40)	5190.00	5400.0~1000 0.0	6426.75 2	-45.25	-26.00	0.0298μW/M Hz	2.5μW/MHz	Pass
NVNT	ANT1	802.11ac(VH T40)	5190.00	10000.0~260 00.0	10380.8 00	-41.76	-26.00	0.0667μW/M Hz	2.5μW/MHz	Pass
NVNT	ANT1	802.11ac(VH T40)	5230.00	5100.0~5141 .6	5132.55 0	-38.88	-26.00	0.1292μW/M Hz	2.5μW/MHz	Pass

NVNT	ANT1	802.11ac(VH T40)	5230.00	5141.6~5150.0	5149.410	-36.27	-18.00	0.2363μW/MHz	15μW/MHz	Pass
NVNT	ANT1	802.11ac(VH T40)	5230.00	5250.0~5251.0	5250.060	-19.52	-3.61	0.011161mW/MHz	0.435482mW/MHz	Pass
NVNT	ANT1	802.11ac(VH T40)	5230.00	5251.0~5270.0	5255.670	-15.47	-14.98	0.028387mW/MHz	0.031794mW/MHz	Pass
NVNT	ANT1	802.11ac(VH T40)	5230.00	5270.0~5278.4	5271.030	-25.06	-21.63	0.003118mW/MHz	0.006873mW/MHz	Pass
NVNT	ANT1	802.11ac(VH T40)	5230.00	5278.4~5400.0	5280.480	-30.02	-26.00	0.9962μW/MHz	2.5μW/MHz	Pass
NVNT	ANT1	802.11ac(VH T40)	5230.00	30.0~5100.0	5076.814	-41.81	-26.00	0.0659μW/MHz	2.5μW/MHz	Pass
NVNT	ANT1	802.11ac(VH T40)	5230.00	5400.0~10000.0	5814.594	-45.18	-26.00	0.0303μW/MHz	2.5μW/MHz	Pass
NVNT	ANT1	802.11ac(VH T40)	5230.00	10000.0~26000.0	10457.600	-42.53	-26.00	0.0558μW/MHz	2.5μW/MHz	Pass
NVNT	ANT1	802.11ac(VH T80)	5210.00	5100.0~5123.2	5119.266	-31.38	-26.00	0.7274μW/MHz	2.5μW/MHz	Pass
NVNT	ANT1	802.11ac(VH T80)	5210.00	5123.2~5150.0	5141.686	-30.19	-18.00	0.9569μW/MHz	15μW/MHz	Pass
NVNT	ANT1	802.11ac(VH T80)	5210.00	5250.0~5251.0	5250.518	-20.16	-11.20	0.009641mW/MHz	0.075847mW/MHz	Pass
NVNT	ANT1	802.11ac(VH T80)	5210.00	5251.0~5290.0	5257.776	-17.94	-17.41	0.016072mW/MHz	0.018153mW/MHz	Pass
NVNT	ANT1	802.11ac(VH T80)	5210.00	5290.0~5296.7	5295.092	-28.05	-25.55	0.001566mW/MHz	0.002787mW/MHz	Pass
NVNT	ANT1	802.11ac(VH T80)	5210.00	5296.7~5480.0	5297.448	-30.34	-26.00	0.9238μW/MHz	2.5μW/MHz	Pass
NVNT	ANT1	802.11ac(VH T80)	5210.00	30.0~5100.0	5092.766	-37.56	-26.00	0.1754μW/MHz	2.5μW/MHz	Pass
NVNT	ANT1	802.11ac(VH T80)	5210.00	5480.0~10000.0	5812.600	-45.60	-26.00	0.0275μW/MHz	2.5μW/MHz	Pass
NVNT	ANT1	802.11ac(VH T80)	5210.00	10000.0~26000.0	10448.000	-44.44	-26.00	0.0360μW/MHz	2.5μW/MHz	Pass



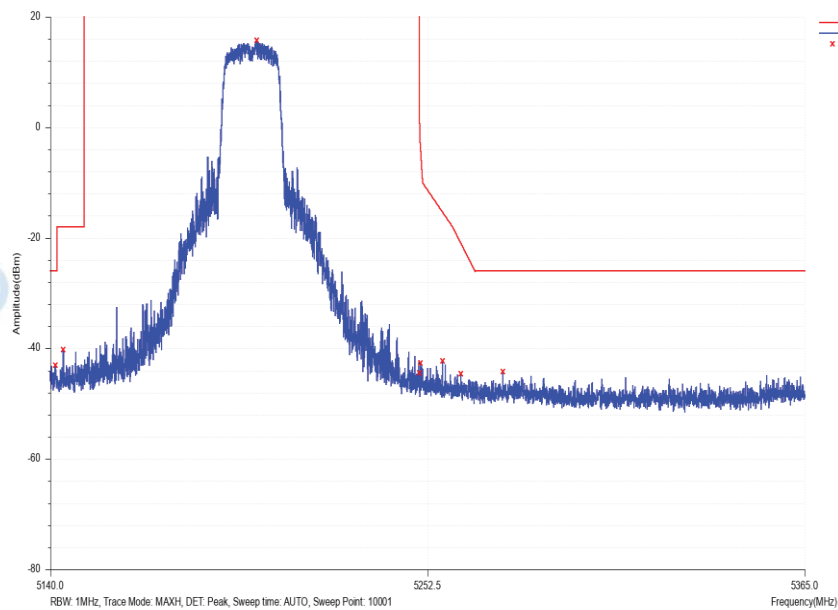
Out_of_band_NVNT_ANT1_802_11a_5180

In band Spurious Emission

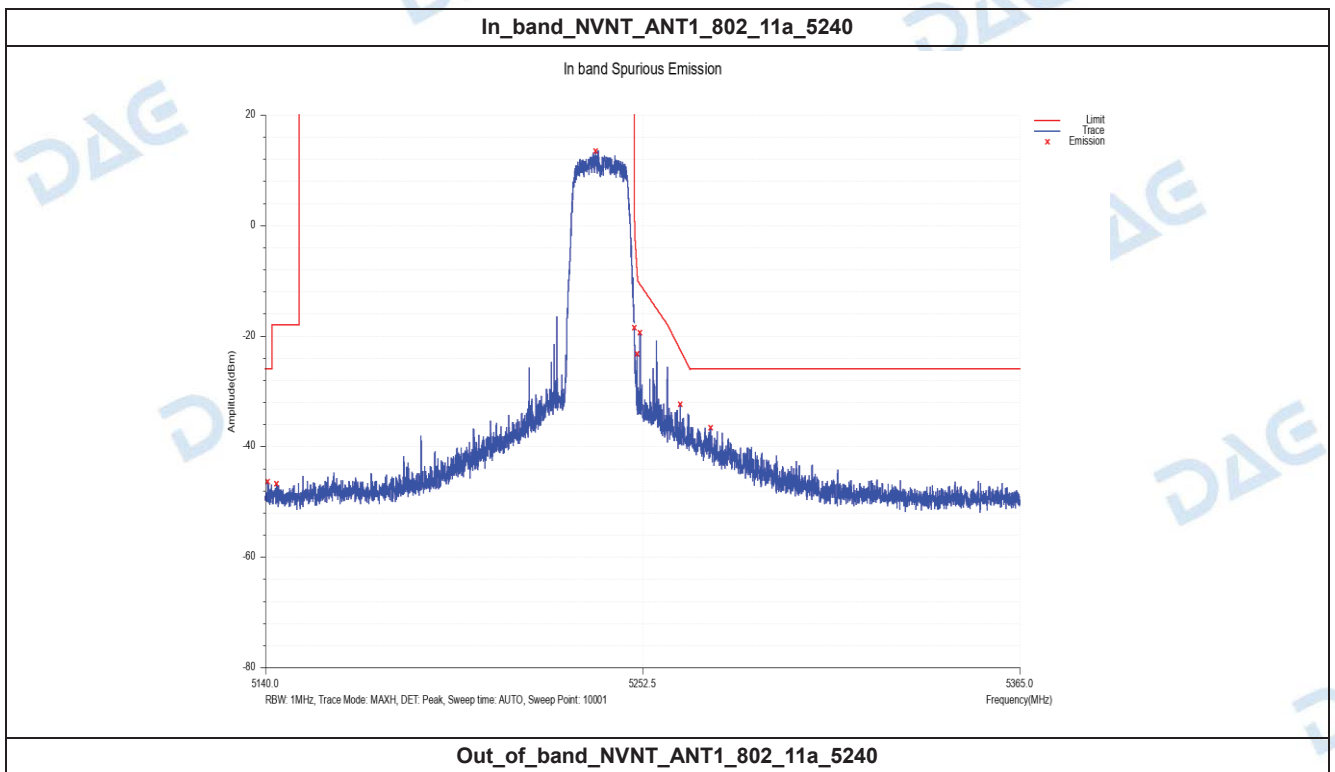
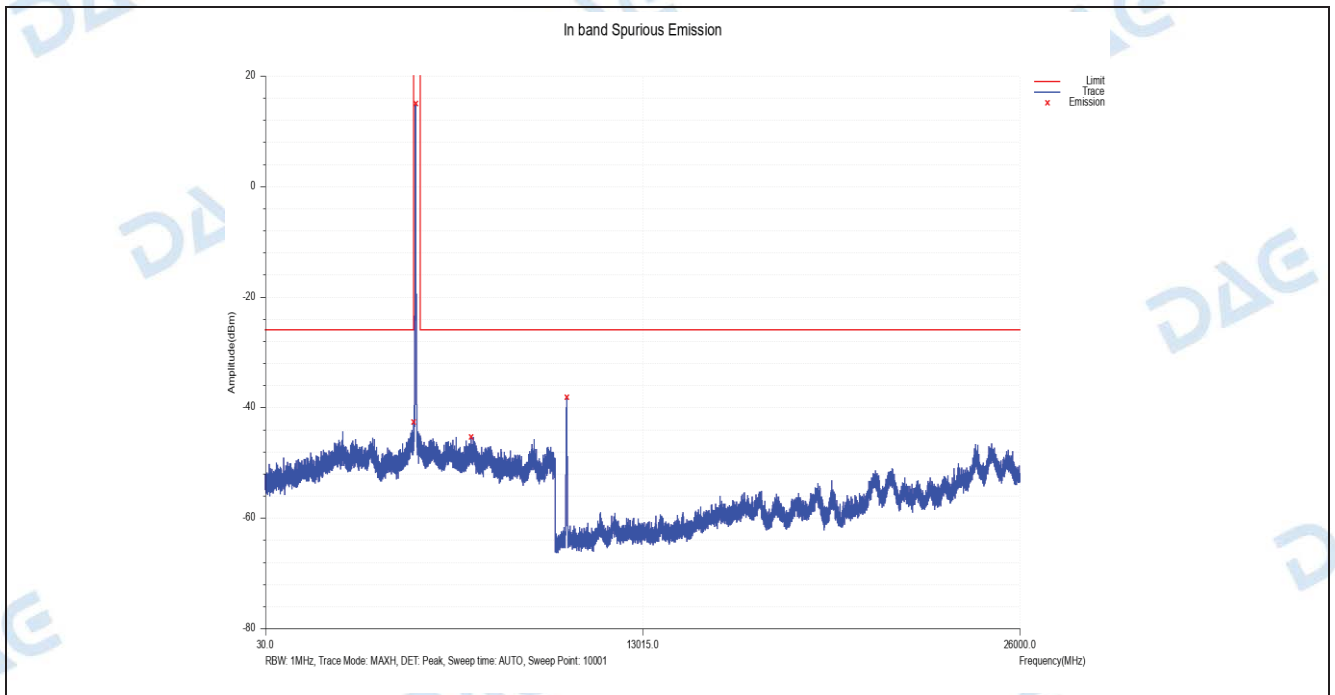


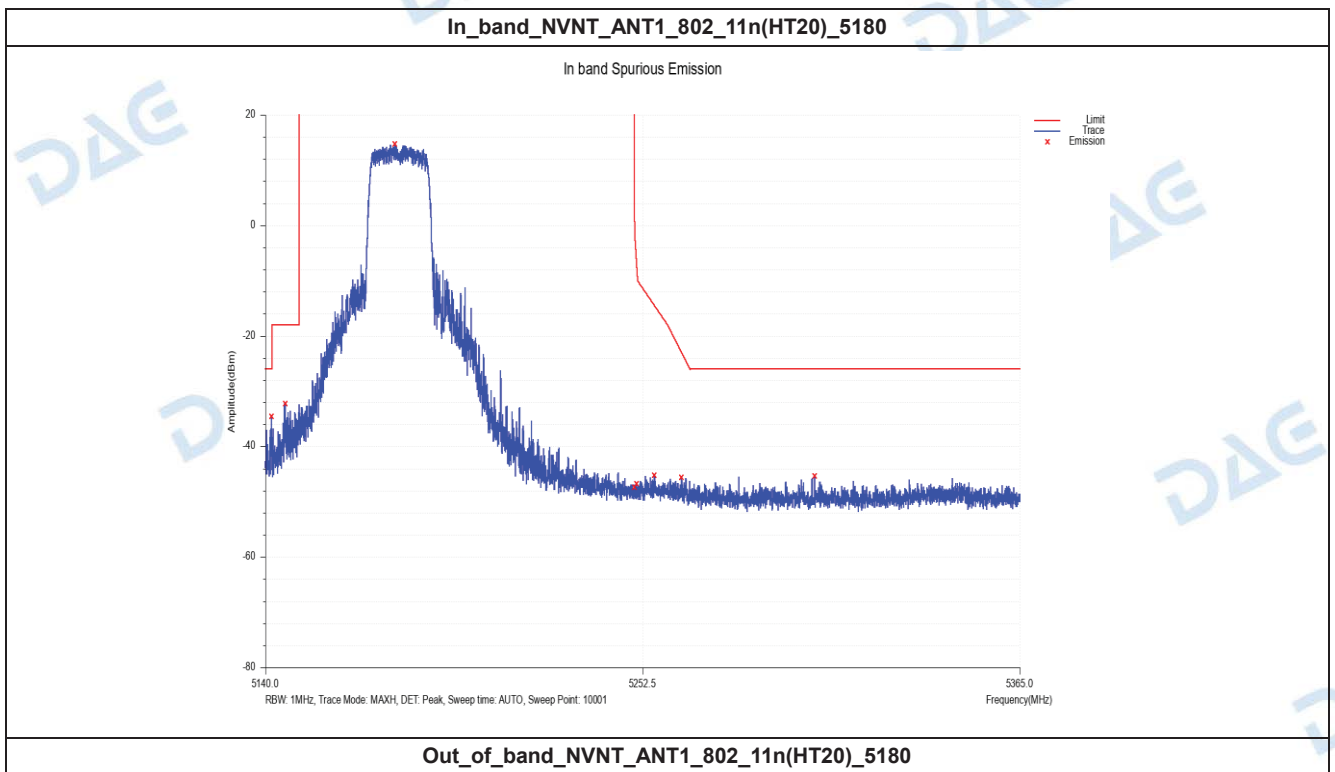
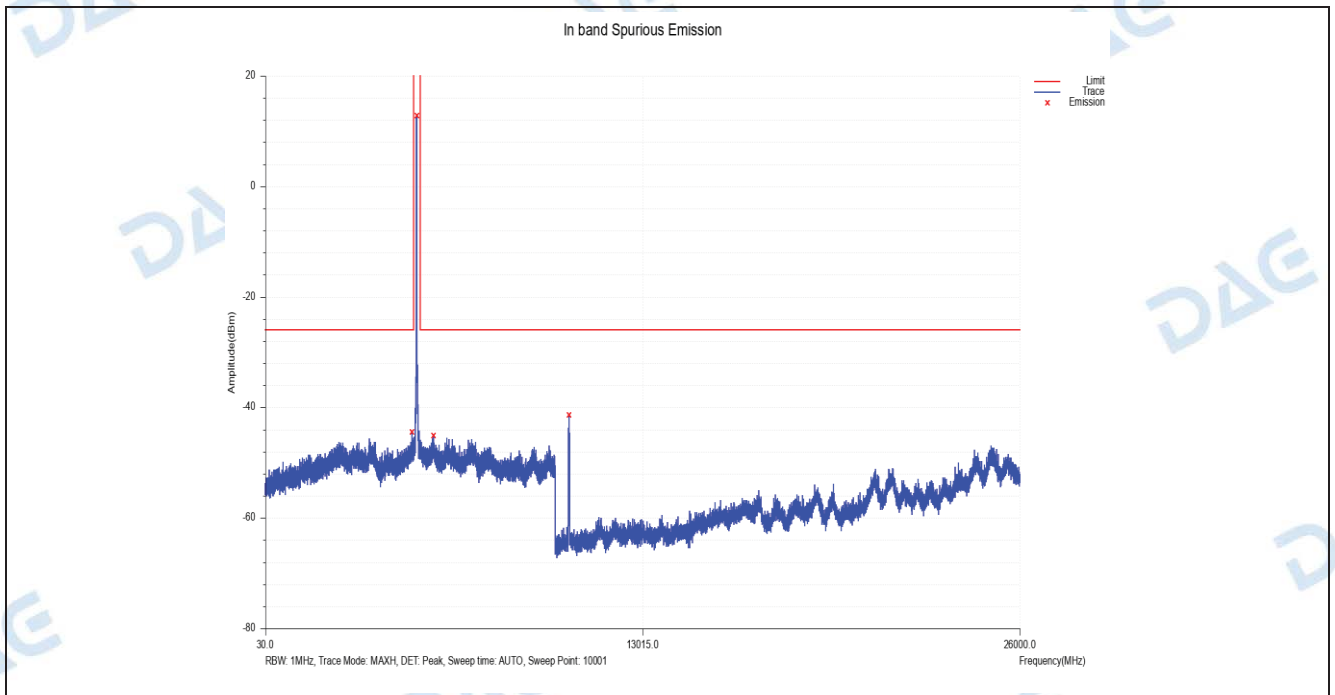
In_band_NVNT_ANT1_802_11a_5200

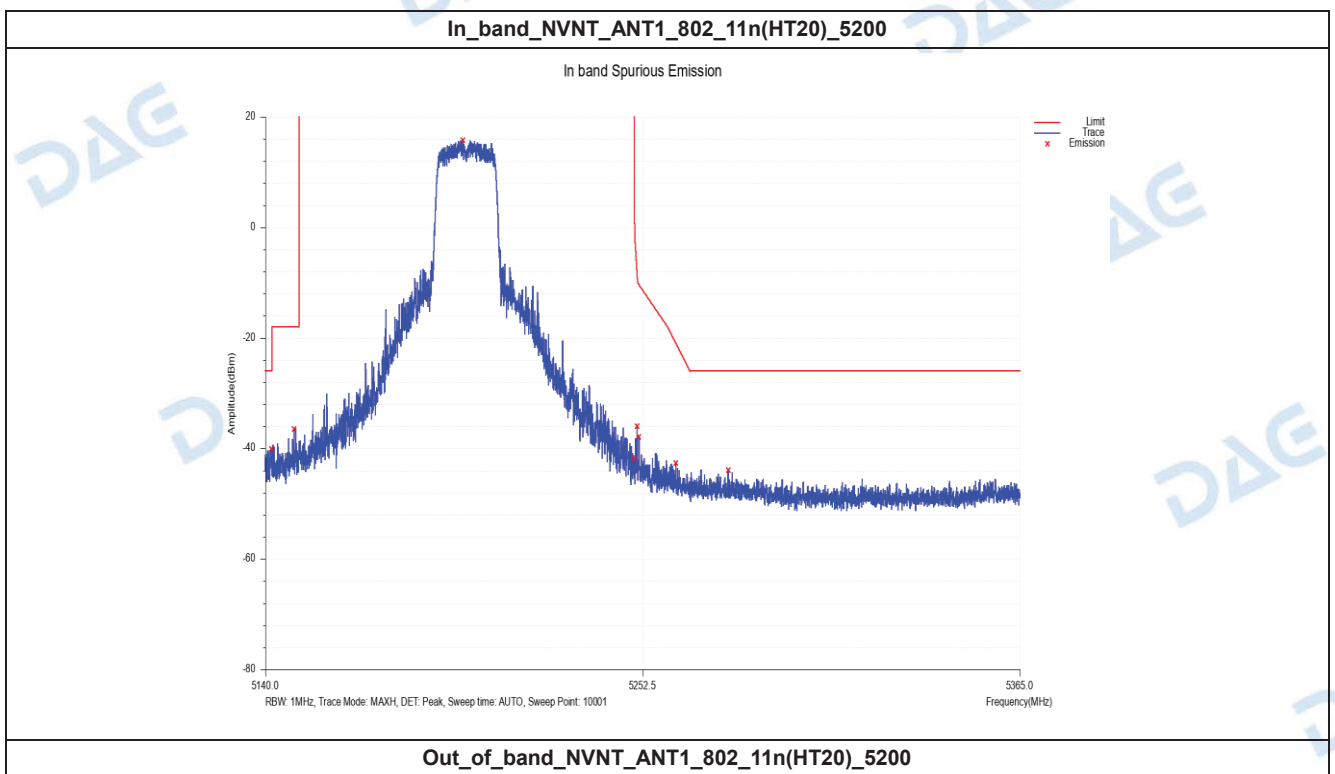
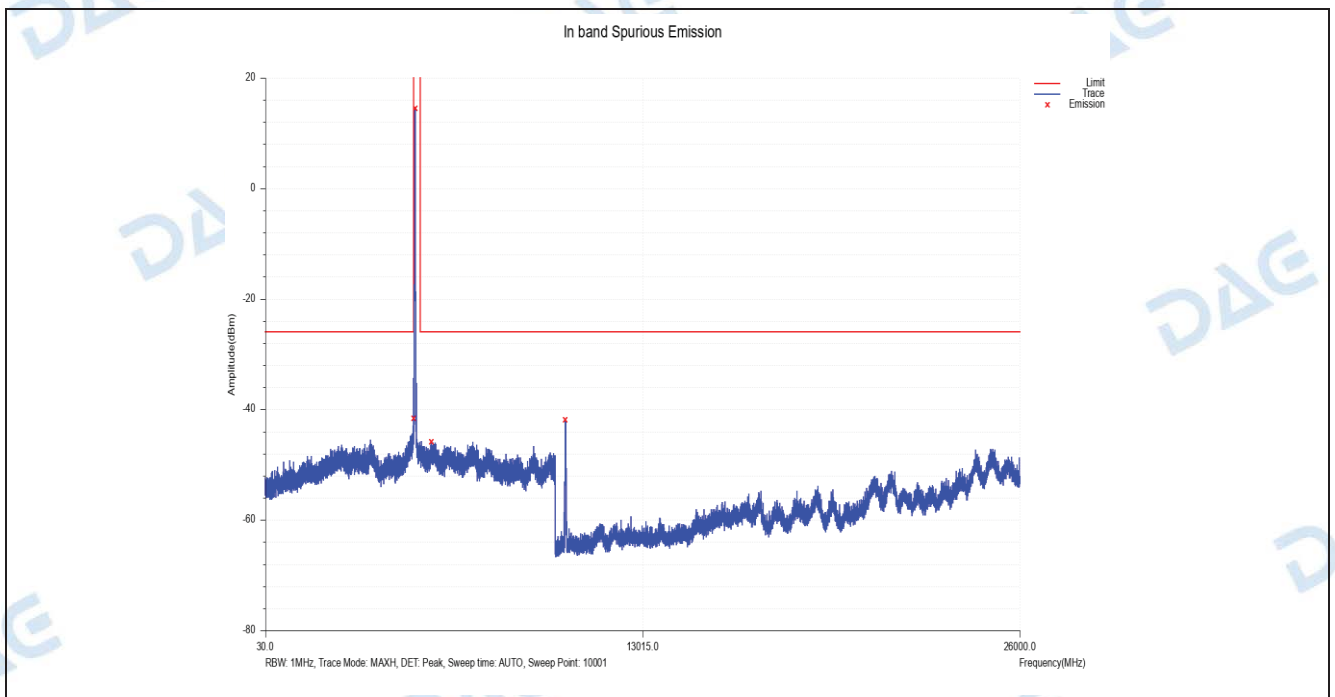
In band Spurious Emission

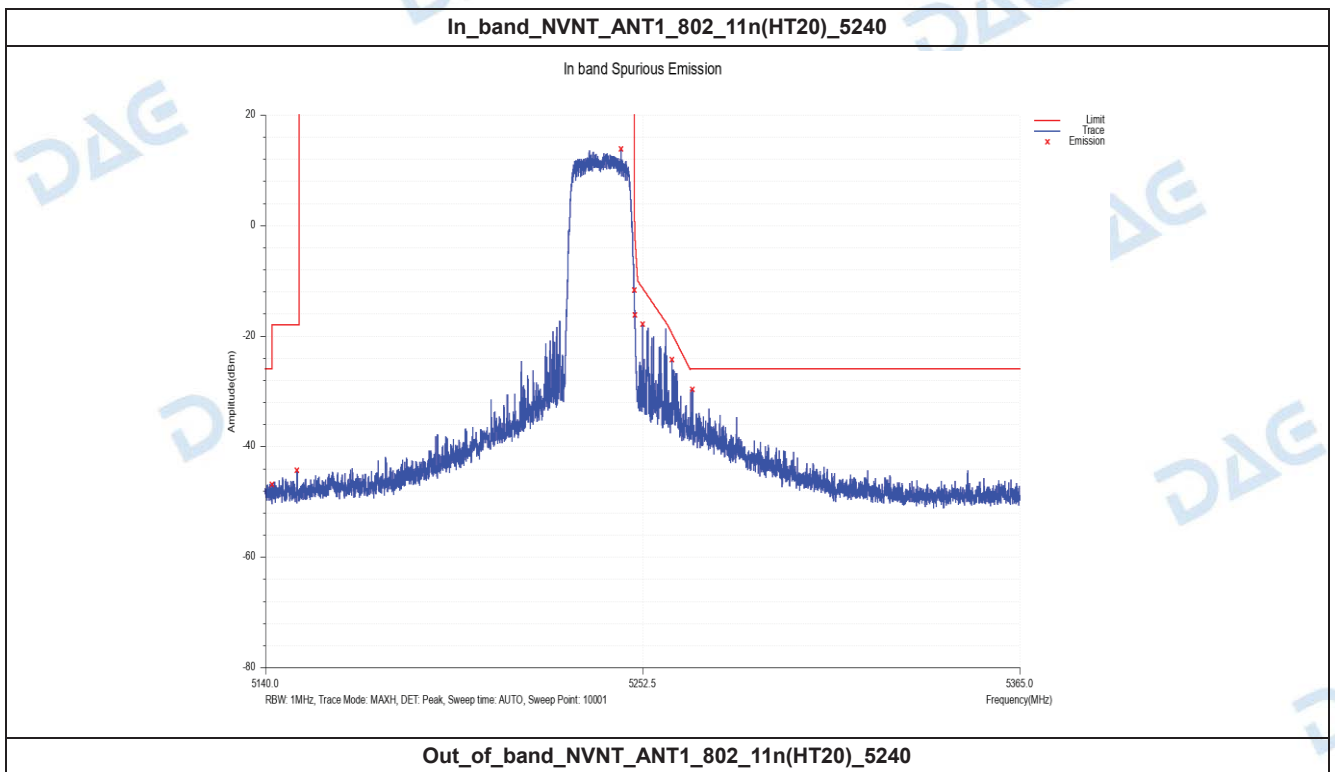
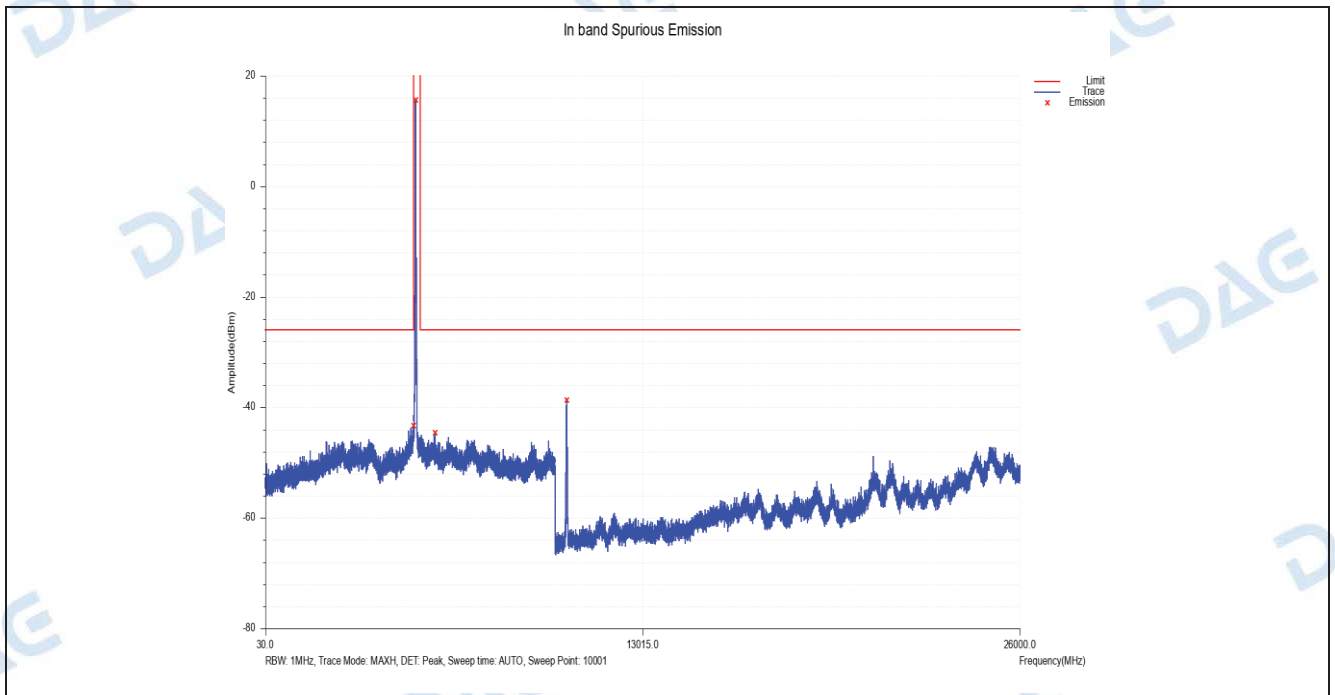


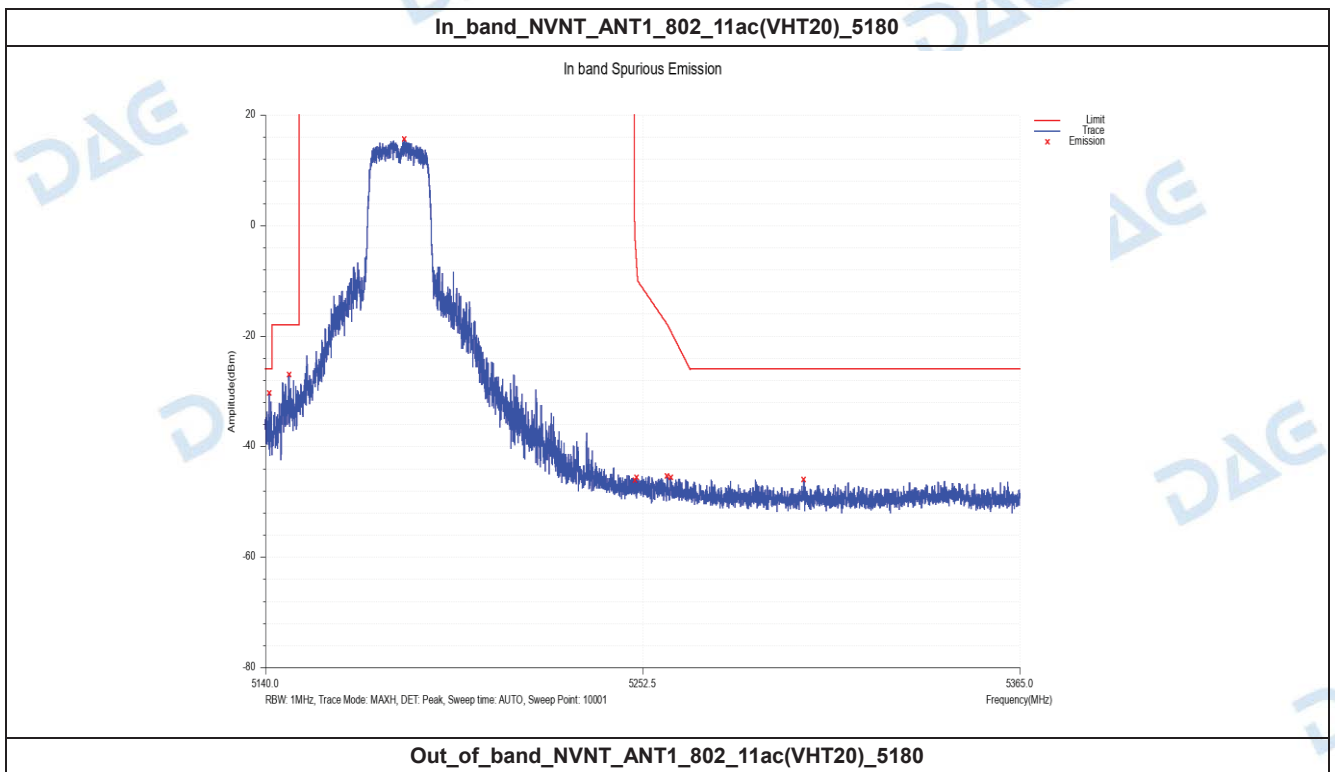
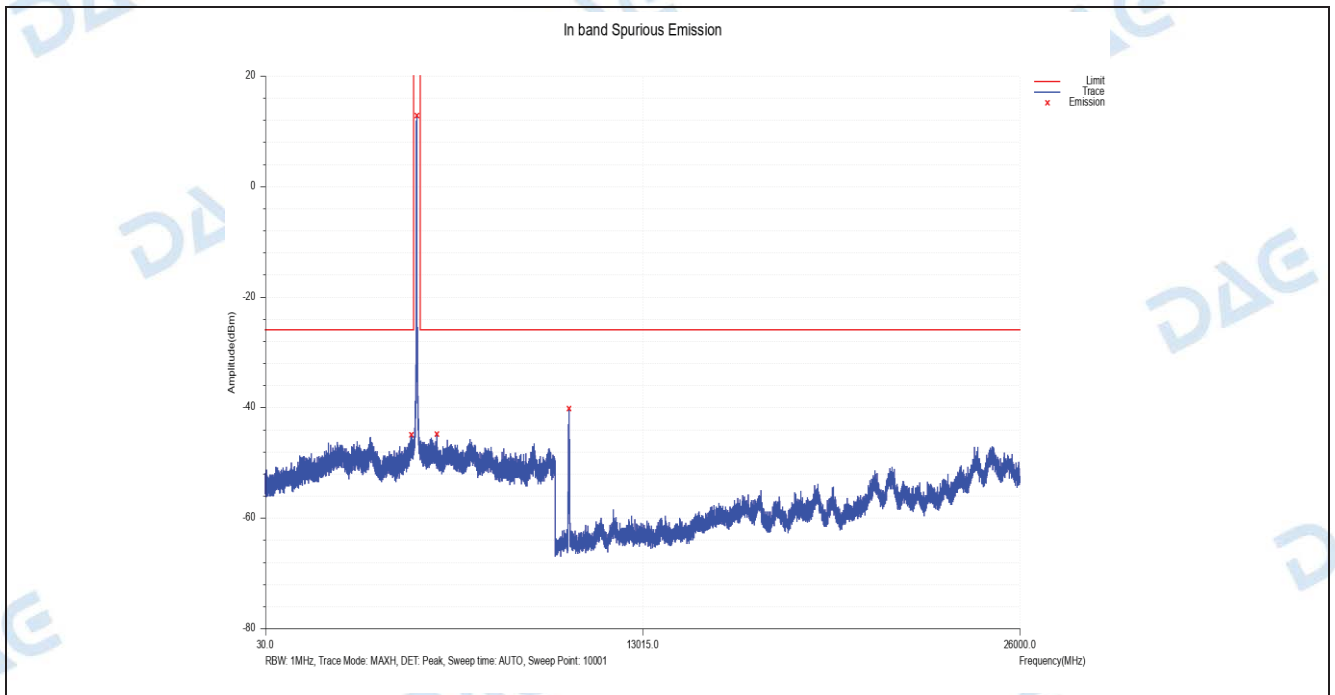
Out_of_band_NVNT_ANT1_802_11a_5200

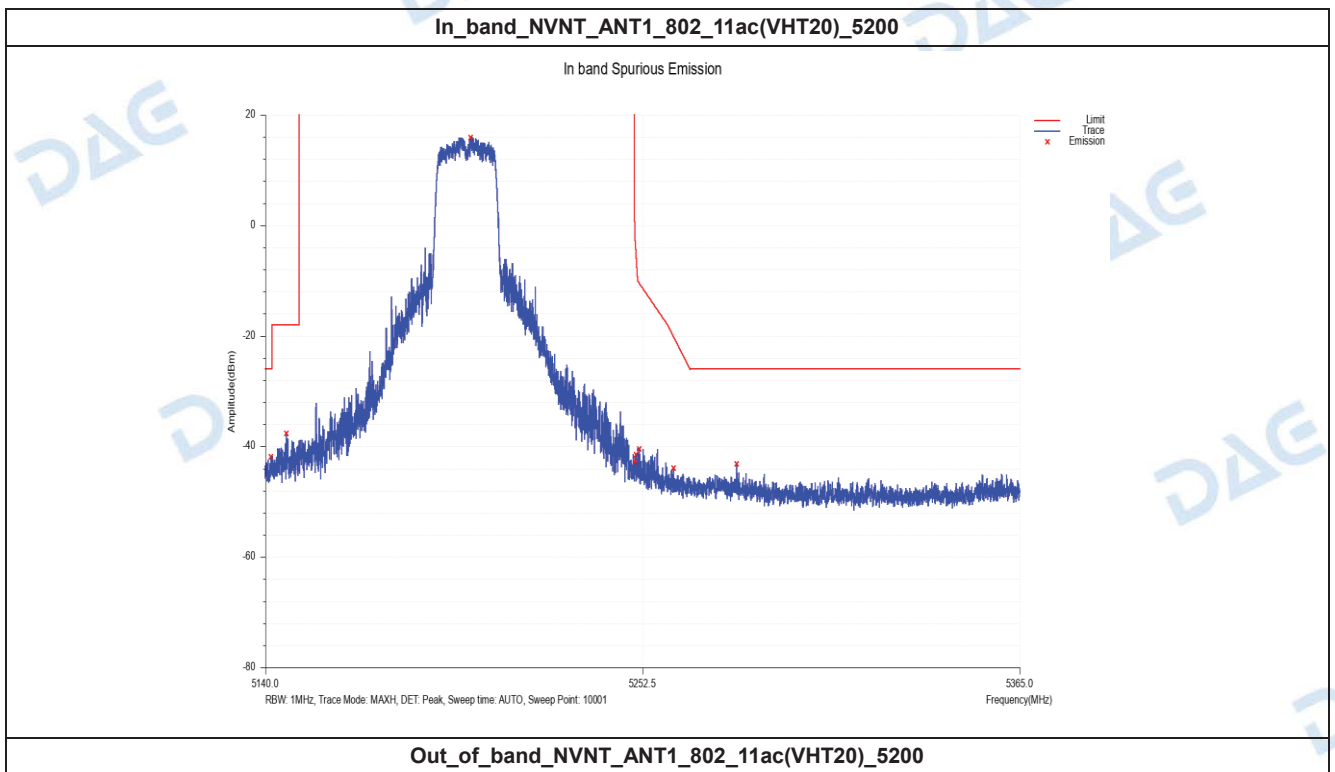
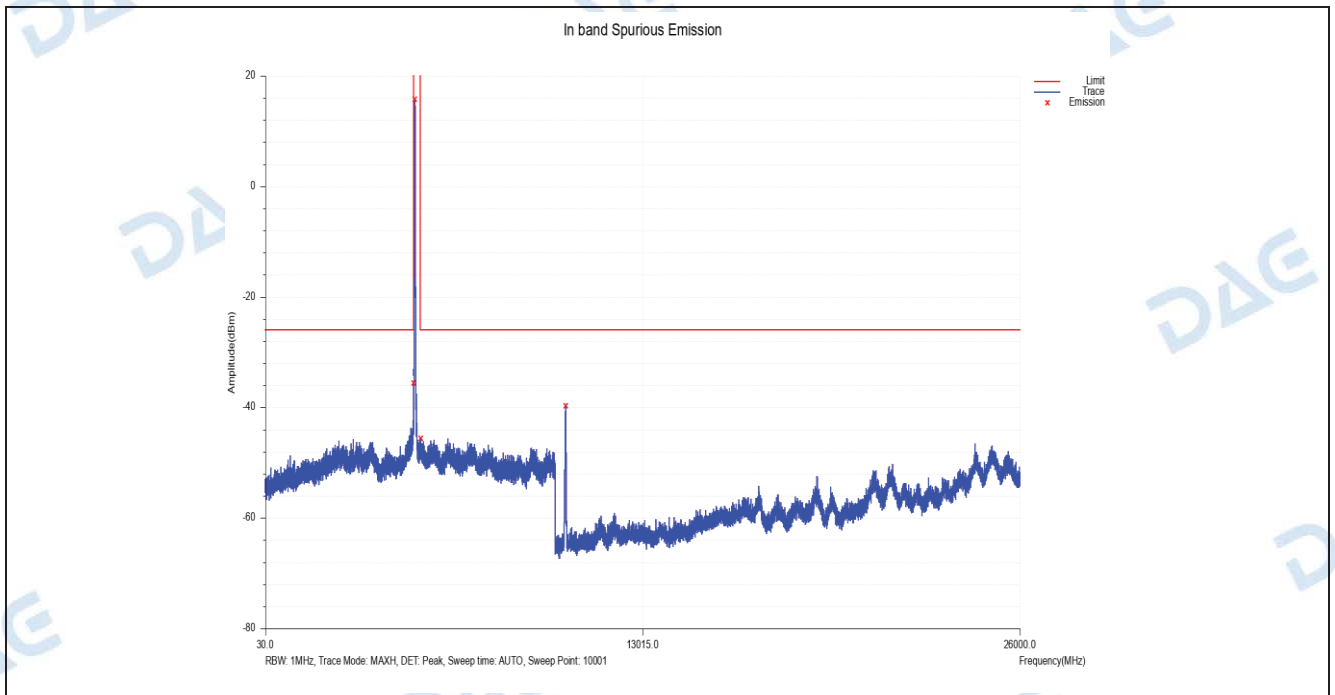


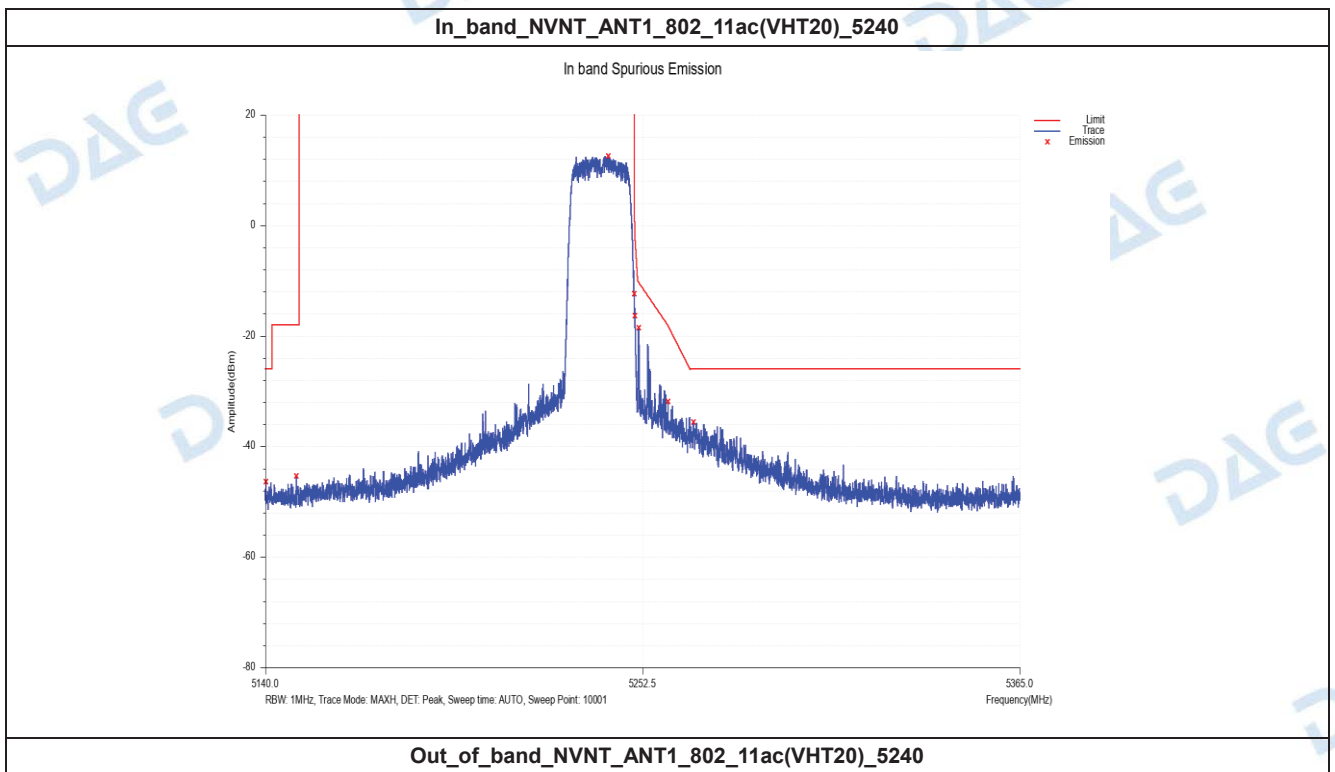
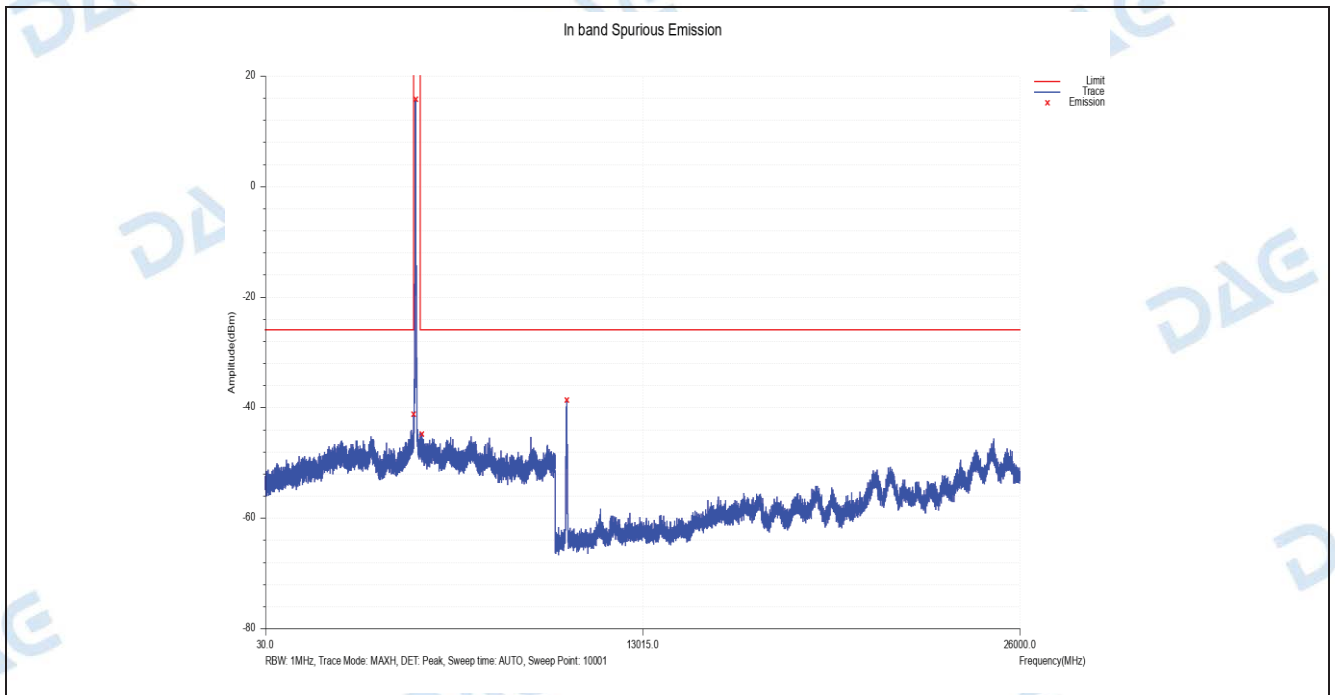


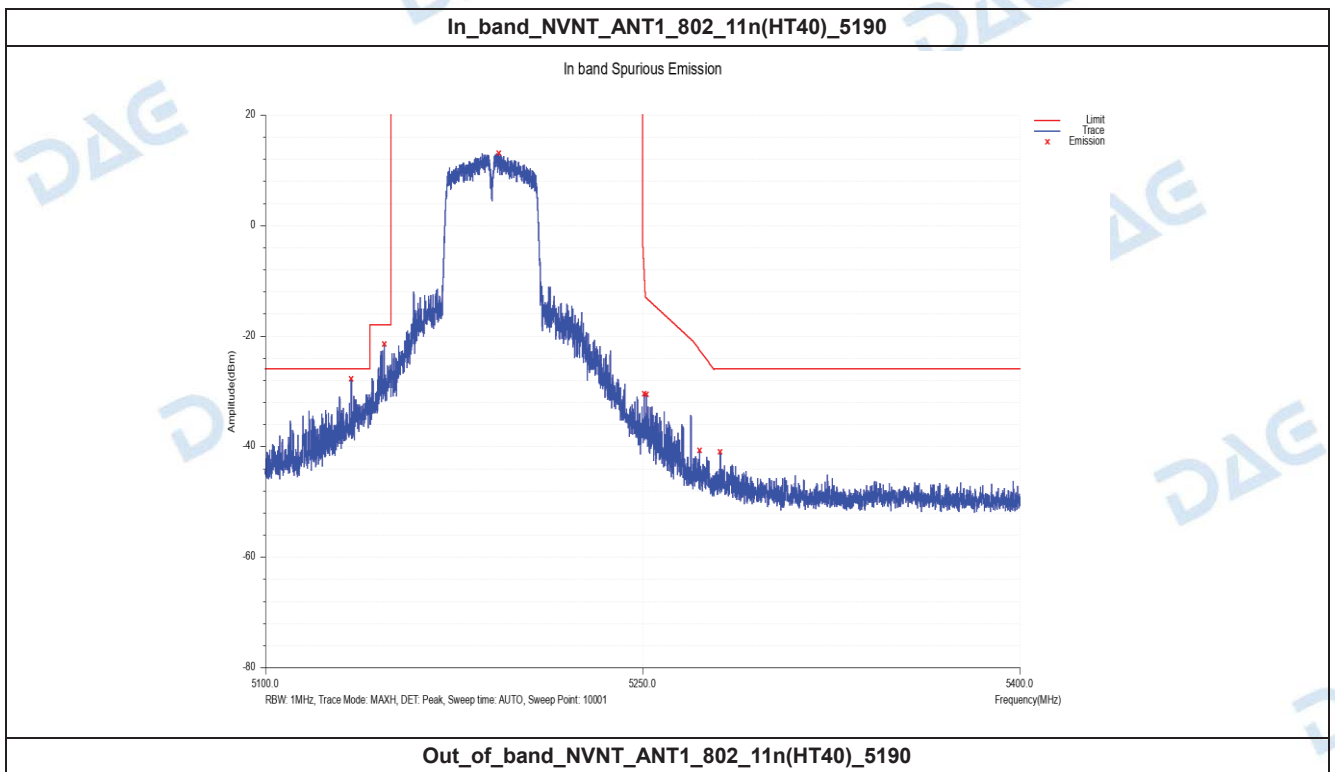
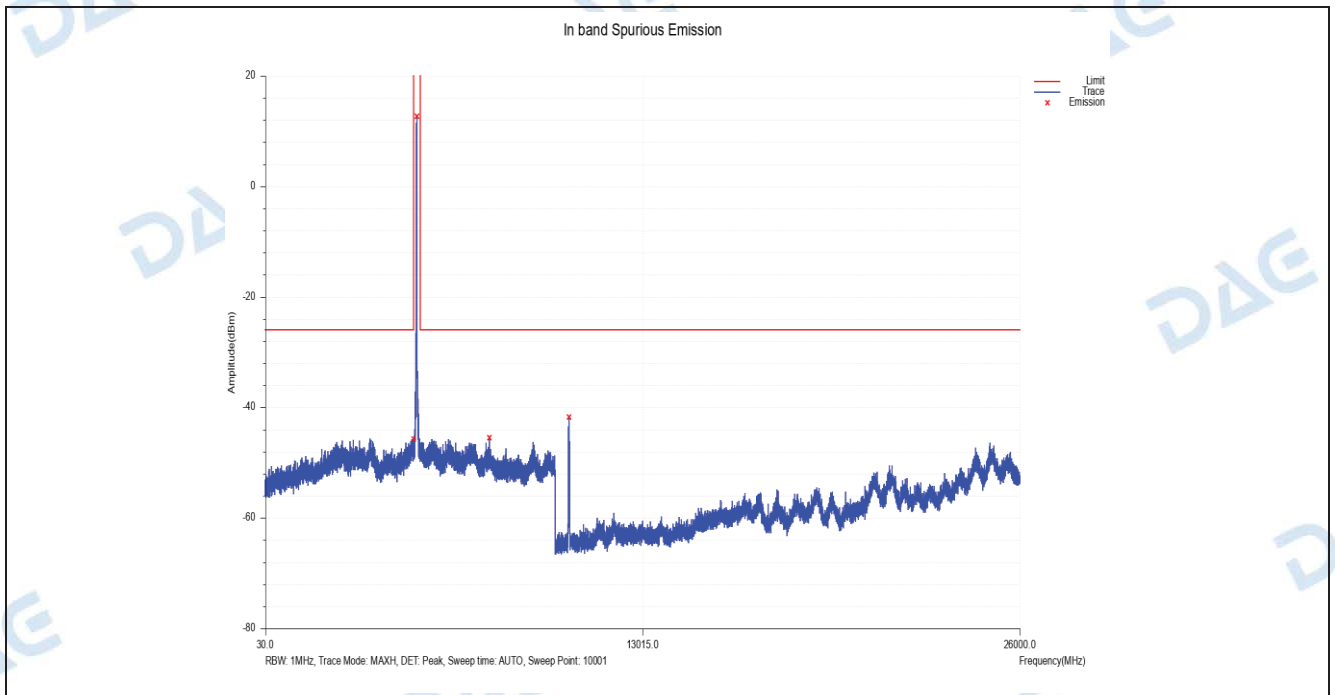


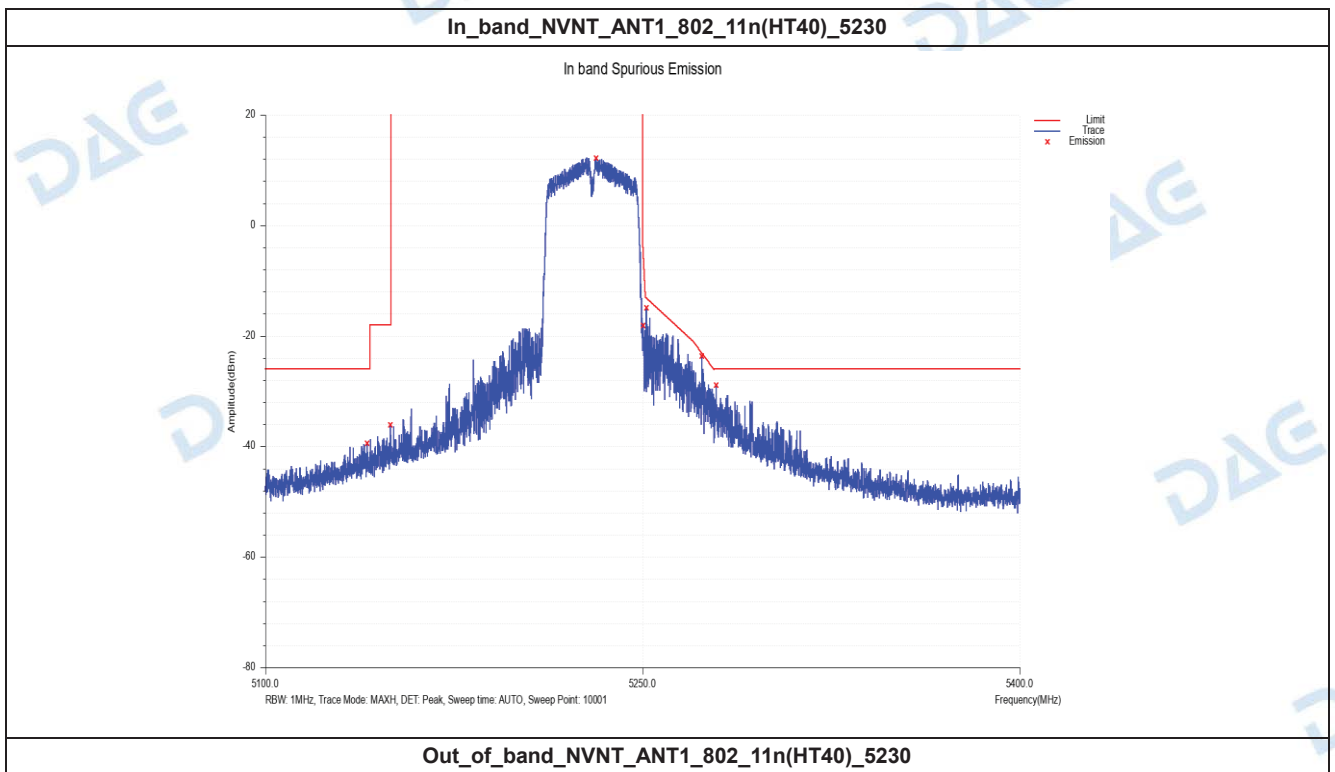
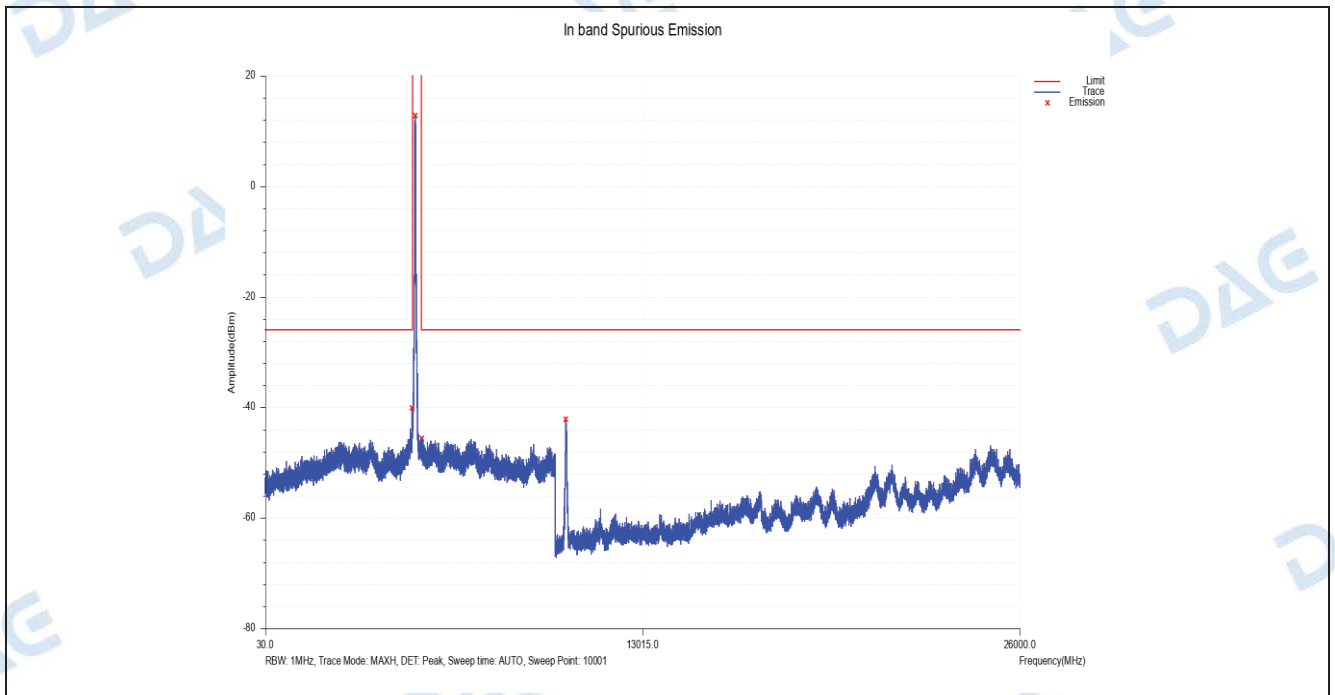


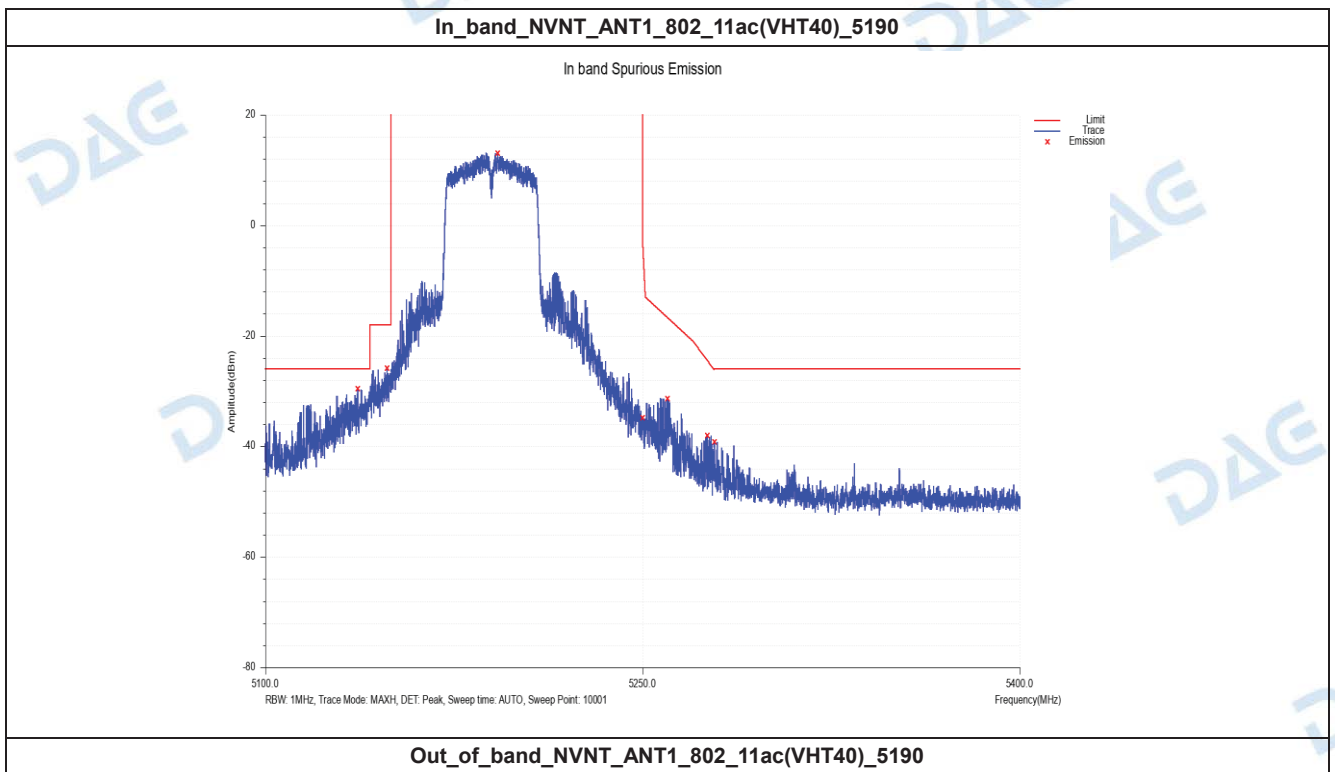
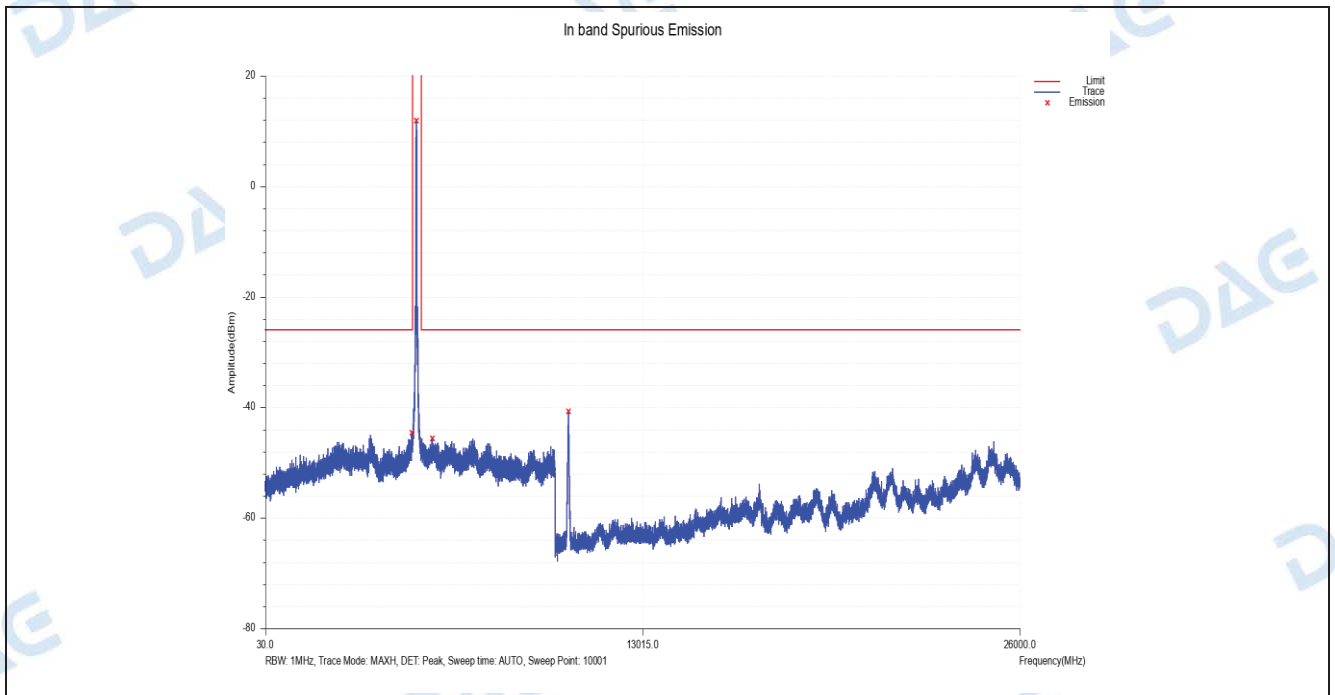


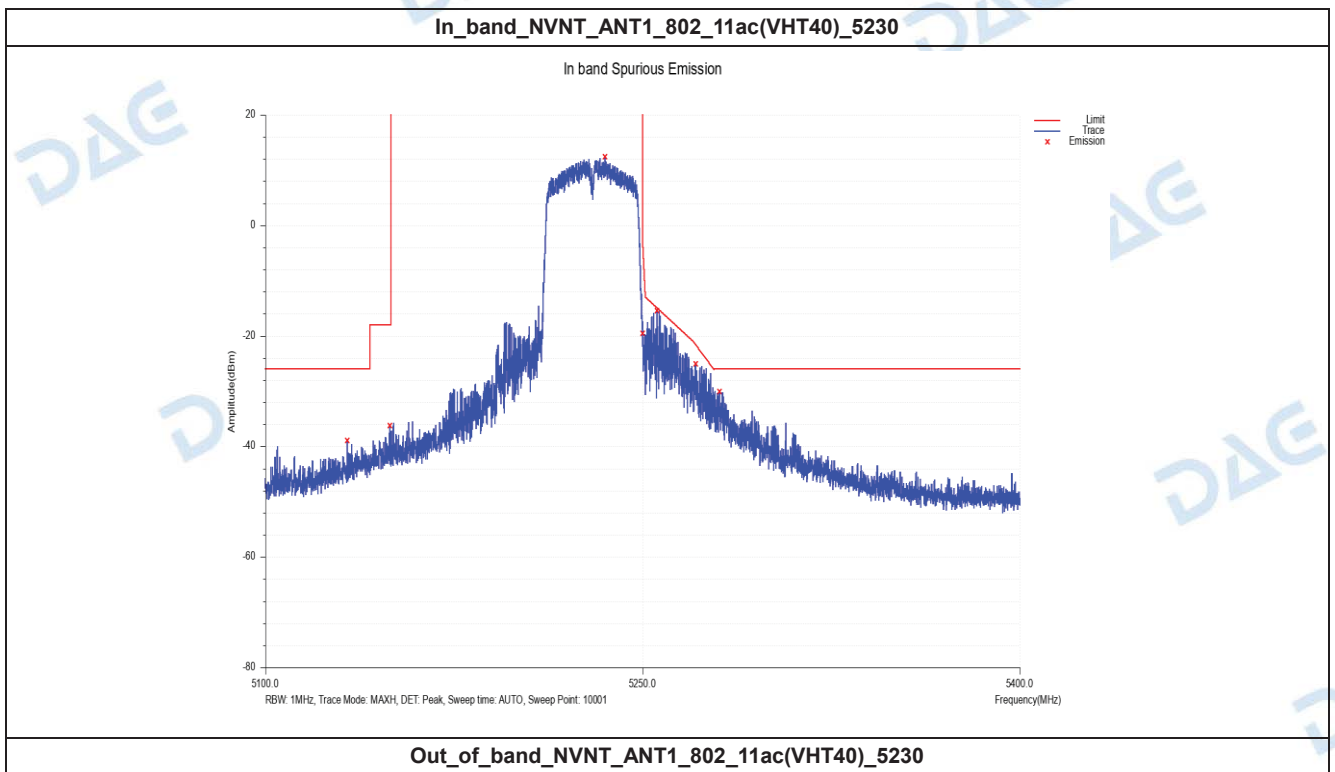
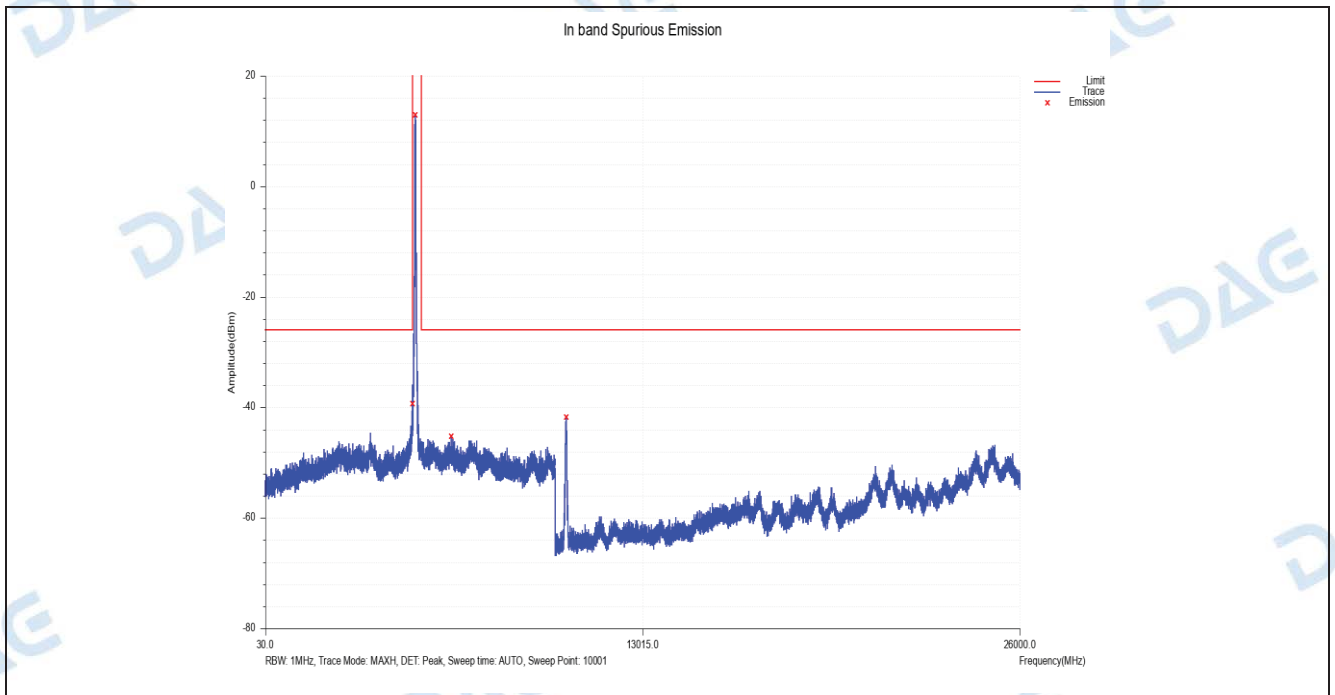


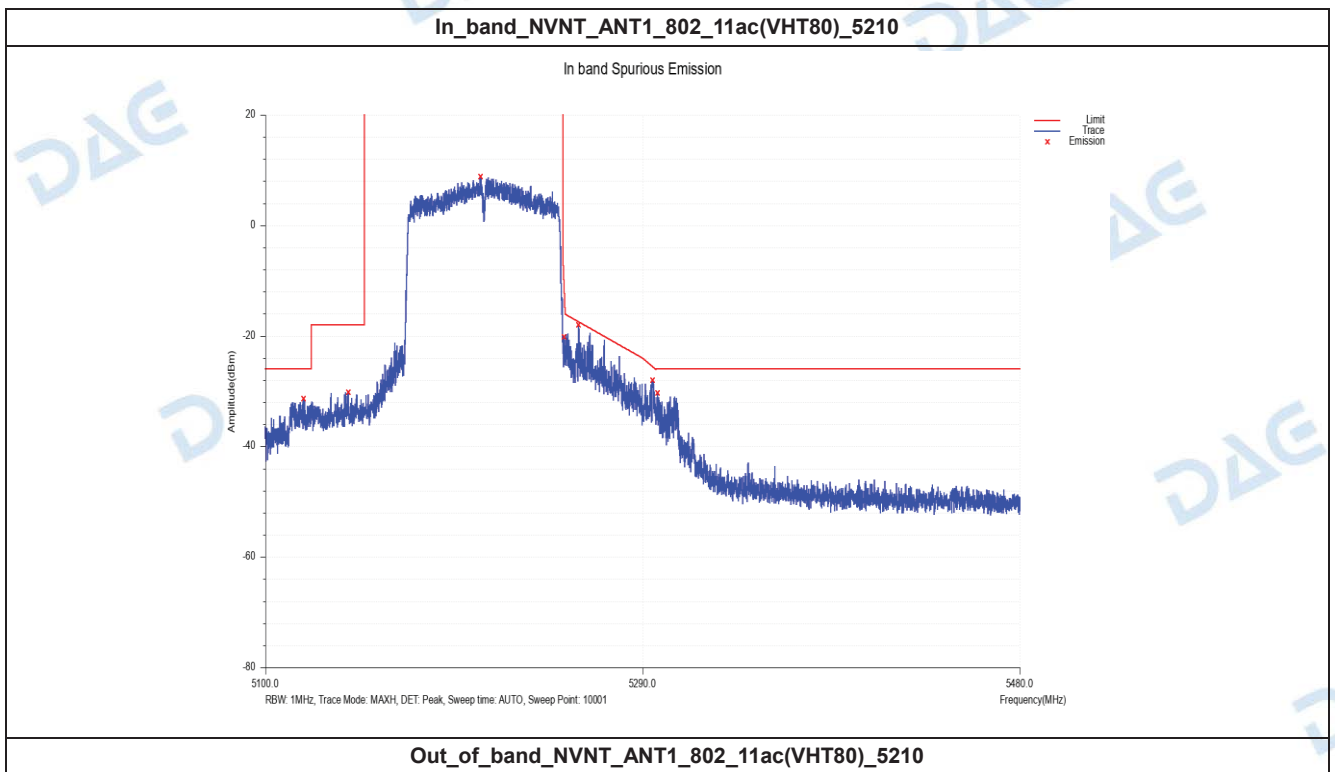
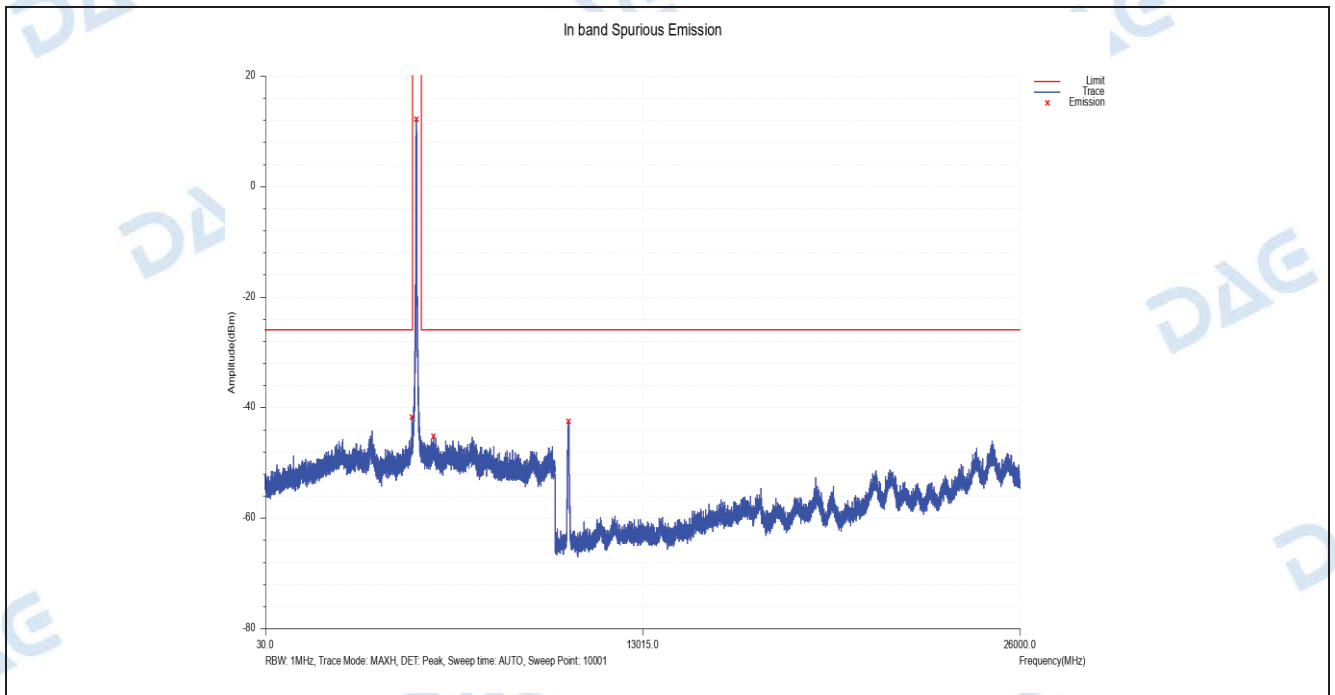


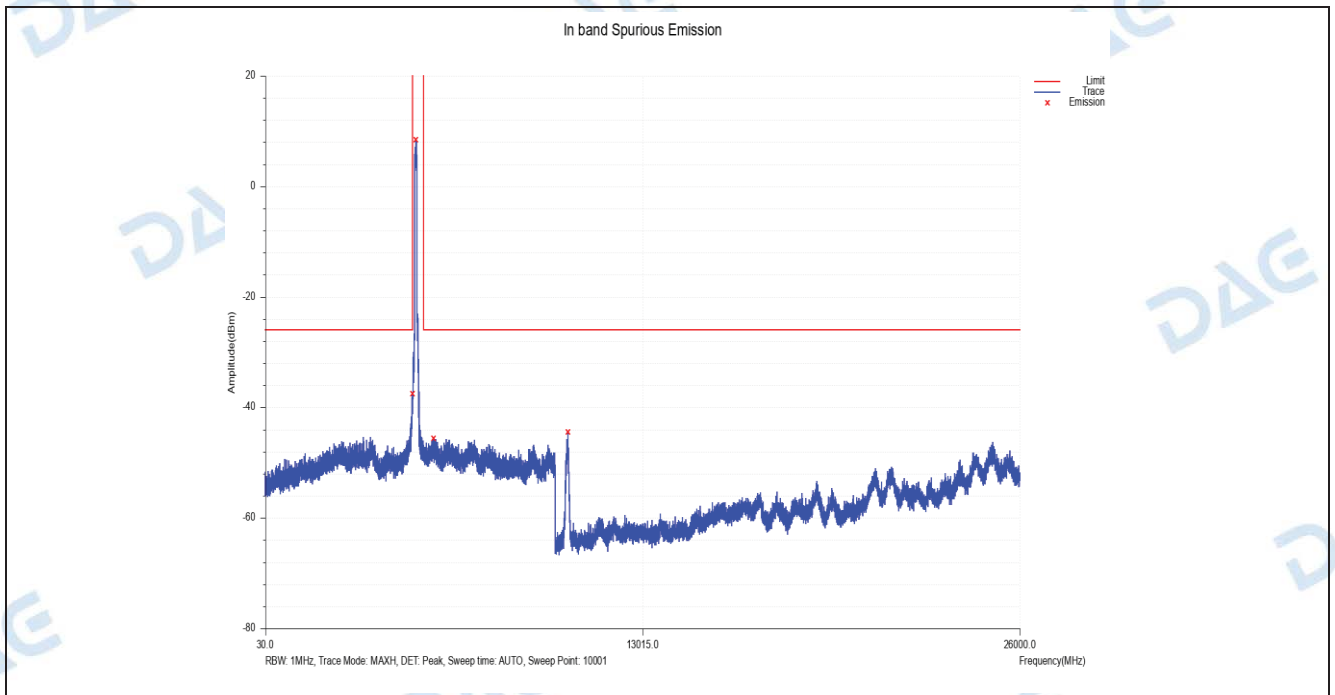








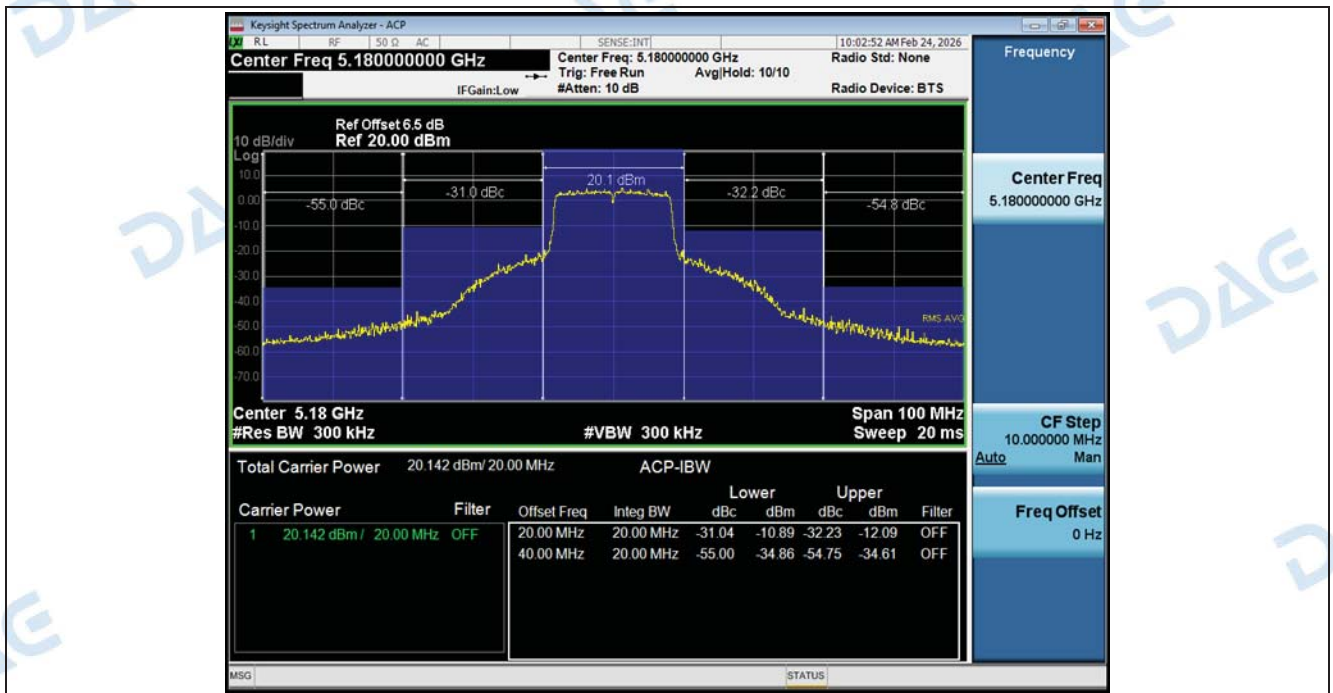




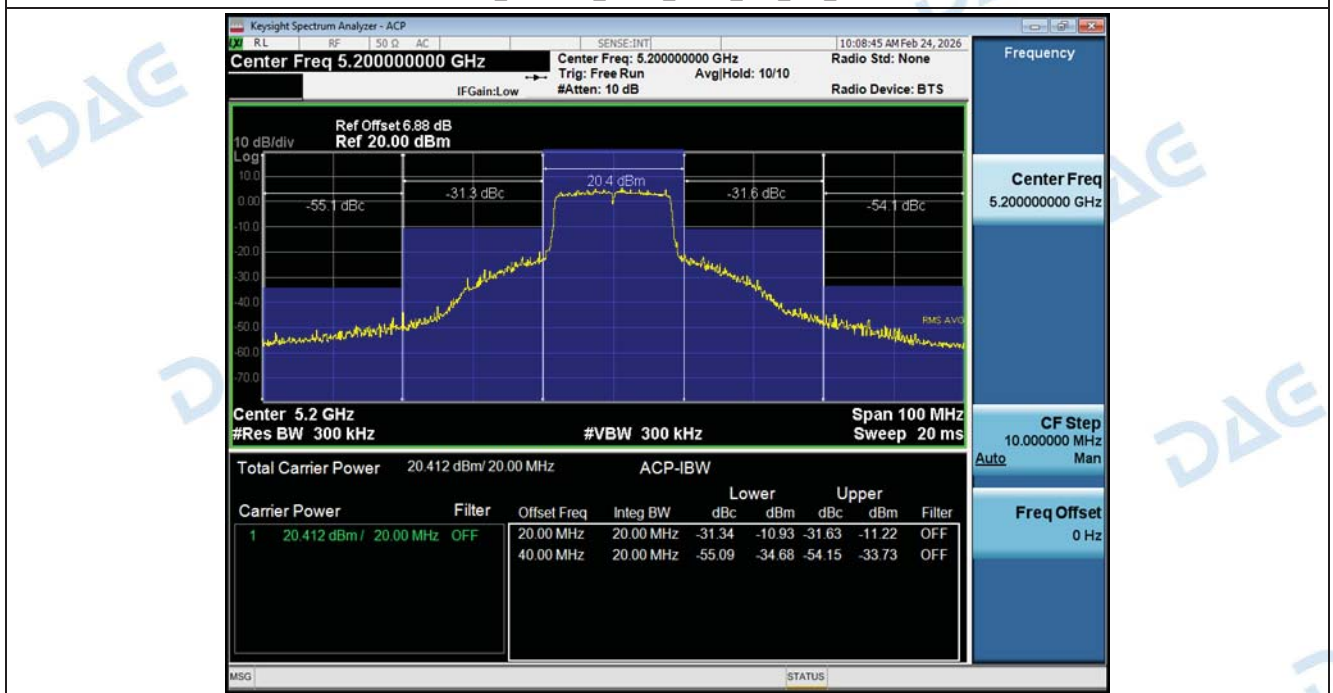
6. ACP Measure

Condition	Antenna	Mode	Frequency(MHz)	Frequency Offset(MHz)	Lower Level(dBc)	Upper Level(dBc)	Limit(dBc)	Result
NVNT	ANT1	802.11a	5180.00	20MHz	-31.04	-32.23	-25	Pass
NVNT	ANT1	802.11a	5180.00	40MHz	-55.00	-54.75	-40	Pass
NVNT	ANT1	802.11a	5200.00	20MHz	-31.34	-31.63	-25	Pass
NVNT	ANT1	802.11a	5200.00	40MHz	-55.09	-54.15	-40	Pass
NVNT	ANT1	802.11a	5240.00	20MHz	-31.10	-31.90	-25	Pass
NVNT	ANT1	802.11a	5240.00	40MHz	-47.93	-47.50	-40	Pass
NVNT	ANT1	802.11n(HT20)	5180.00	20MHz	-30.51	-31.31	-25	Pass
NVNT	ANT1	802.11n(HT20)	5180.00	40MHz	-54.28	-54.12	-40	Pass
NVNT	ANT1	802.11n(HT20)	5200.00	20MHz	-29.63	-29.69	-25	Pass
NVNT	ANT1	802.11n(HT20)	5200.00	40MHz	-50.41	-49.52	-40	Pass
NVNT	ANT1	802.11n(HT20)	5240.00	20MHz	-29.63	-30.08	-25	Pass
NVNT	ANT1	802.11n(HT20)	5240.00	40MHz	-46.15	-45.79	-40	Pass
NVNT	ANT1	802.11ac(VHT20)	5180.00	20MHz	-29.81	-30.52	-25	Pass
NVNT	ANT1	802.11ac(VHT20)	5180.00	40MHz	-50.24	-50.51	-40	Pass
NVNT	ANT1	802.11ac(VHT20)	5200.00	20MHz	-29.79	-29.83	-25	Pass
NVNT	ANT1	802.11ac(VHT20)	5200.00	40MHz	-51.21	-50.24	-40	Pass
NVNT	ANT1	802.11ac(VHT20)	5240.00	20MHz	-29.43	-29.85	-25	Pass
NVNT	ANT1	802.11ac(VHT20)	5240.00	40MHz	-46.15	-45.65	-40	Pass
NVNT	ANT1	802.11n(HT40)	5190.00	40MHz	-31.42	-31.60	-25	Pass
NVNT	ANT1	802.11n(HT40)	5190.00	80MHz	-51.85	-53.27	-40	Pass
NVNT	ANT1	802.11n(HT40)	5230.00	40MHz	-33.56	-33.74	-25	Pass
NVNT	ANT1	802.11n(HT40)	5230.00	80MHz	-48.48	-49.39	-40	Pass
NVNT	ANT1	802.11ac(VHT40)	5190.00	40MHz	-30.99	-30.98	-25	Pass
NVNT	ANT1	802.11ac(VHT40)	5190.00	80MHz	-51.28	-51.69	-40	Pass
NVNT	ANT1	802.11ac(VHT40)	5230.00	40MHz	-32.85	-32.59	-25	Pass
NVNT	ANT1	802.11ac(VHT40)	5230.00	80MHz	-47.69	-48.23	-40	Pass
NVNT	ANT1	802.11ac(VHT80)	5210.00	80MHz	-36.57	-34.45	-25	Pass

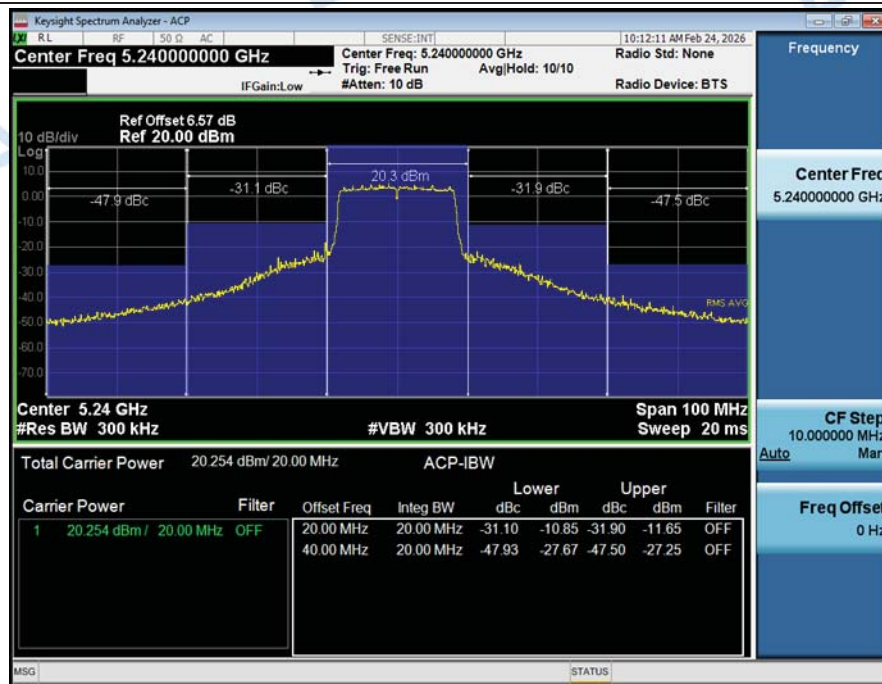
ACP_Measure_NVNT_ANT1_802_11a_5180



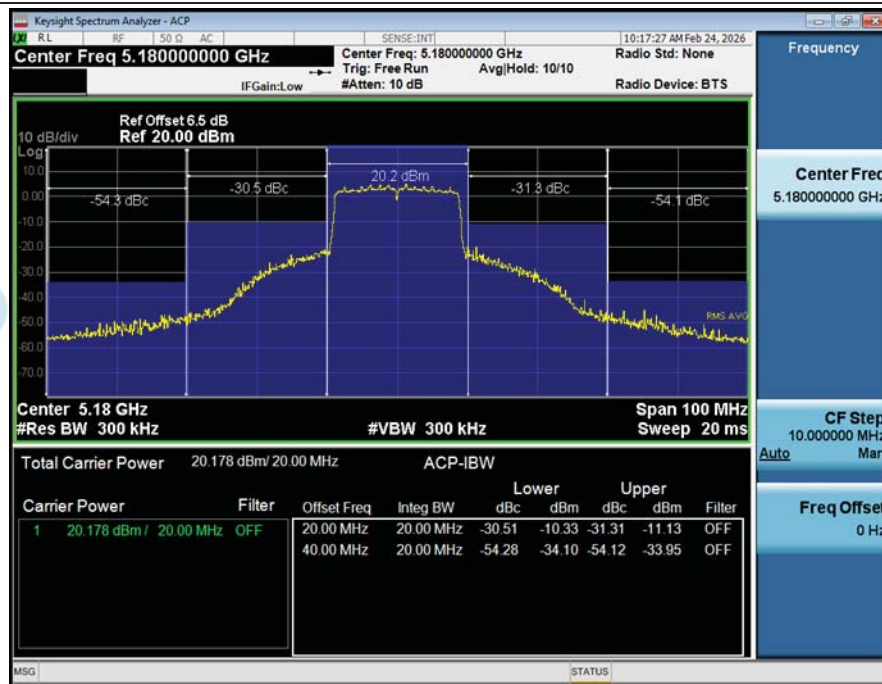
ACP_Measure_NVNT_ANT1_802_11a_5200



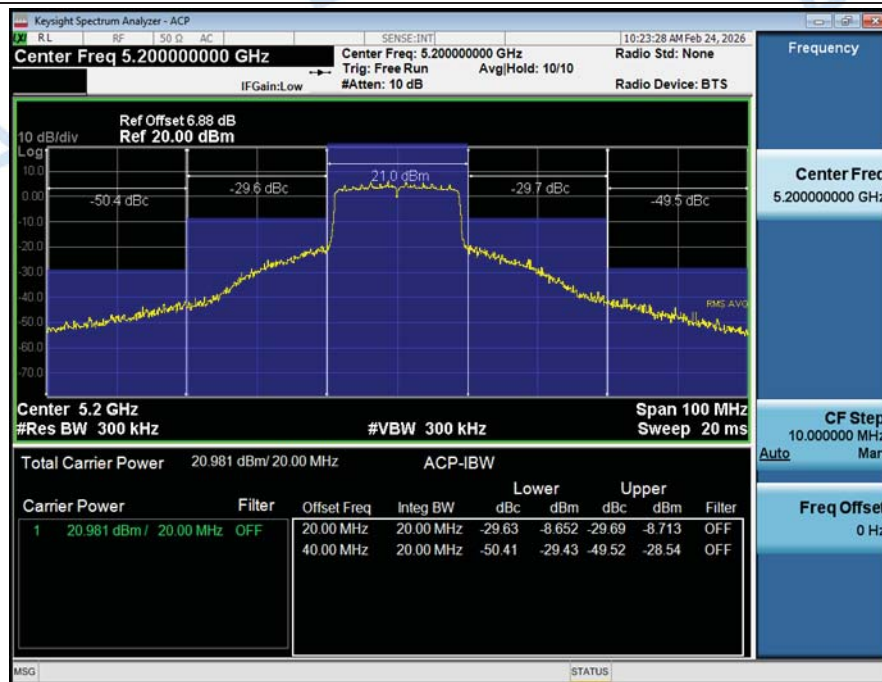
ACP_Measure_NVNT_ANT1_802_11a_5240



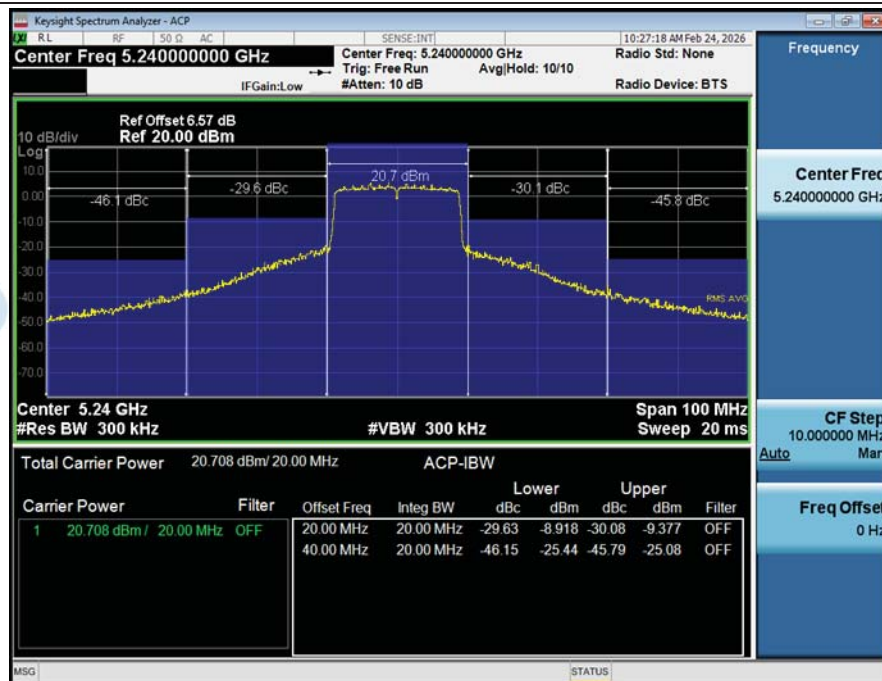
ACP_Measure_NVNT_ANT1_802_11n(HT20)_5180



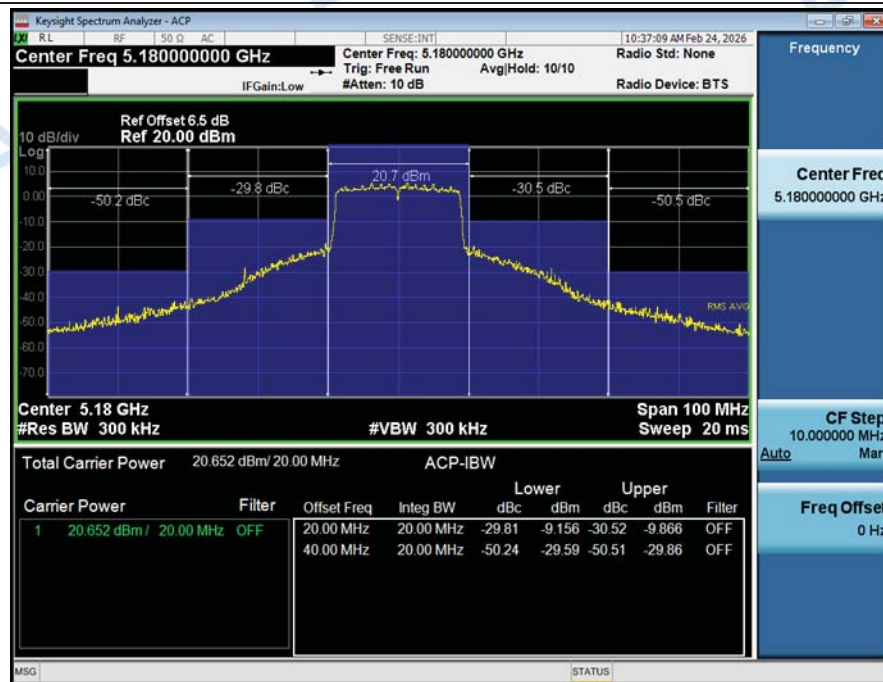
ACP_Measure_NVNT_ANT1_802_11n(HT20)_5200



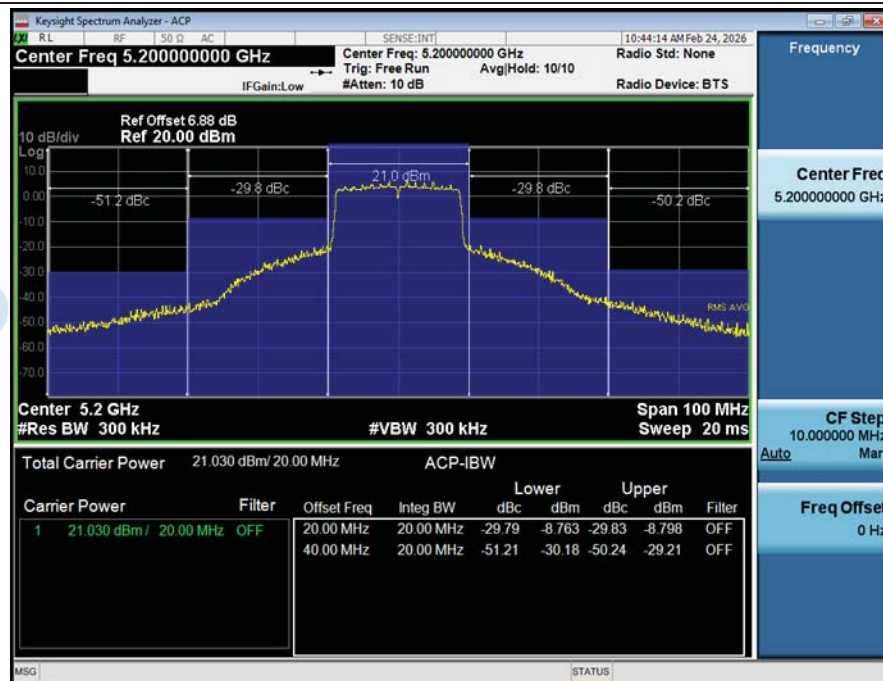
ACP_Measure_NVNT_ANT1_802_11n(HT20)_5240



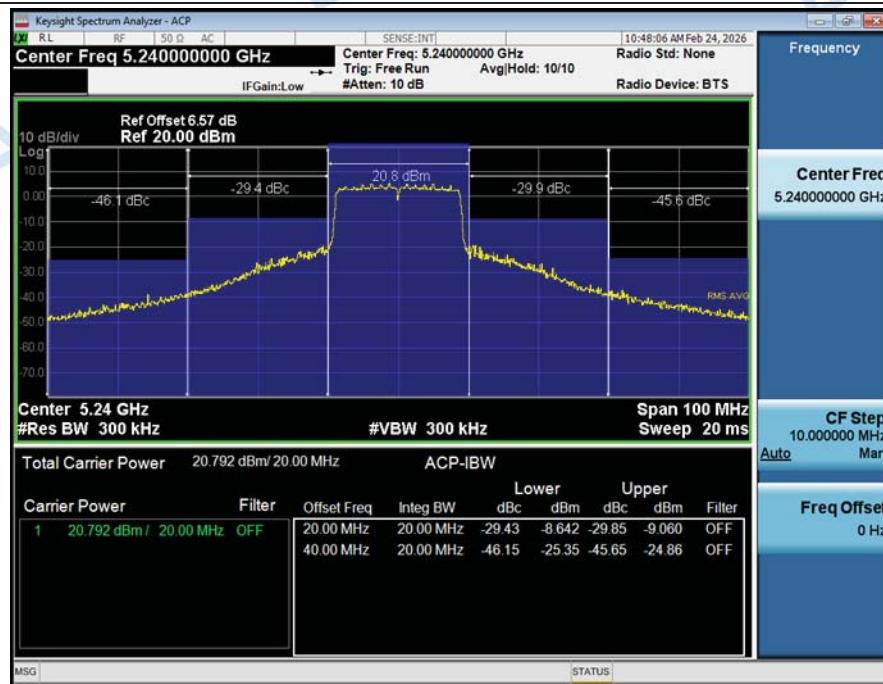
ACP_Measure_NVNT_ANT1_802_11ac(VHT20)_5180



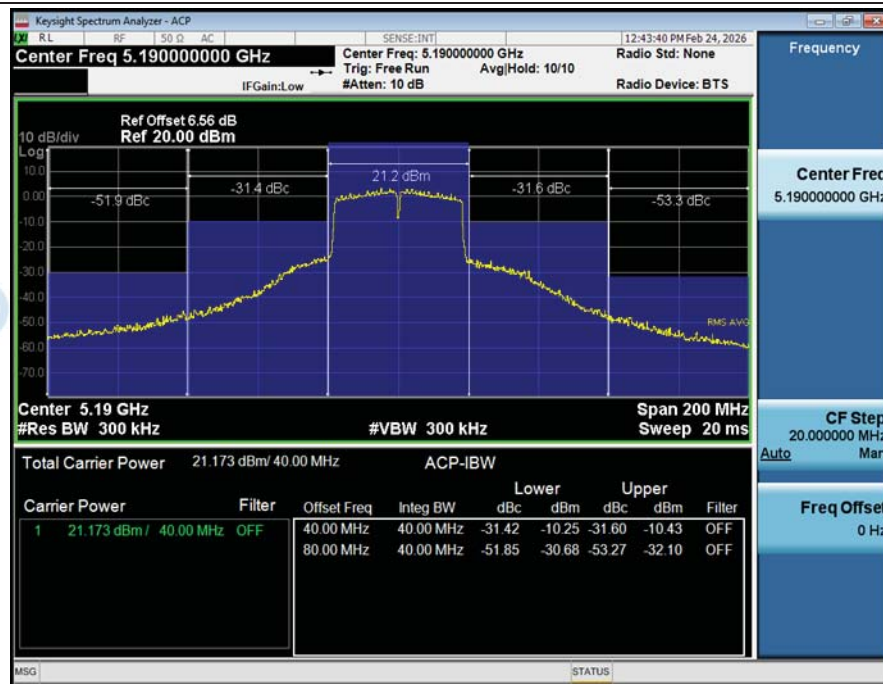
ACP_Measure_NVNT_ANT1_802_11ac(VHT20)_5200



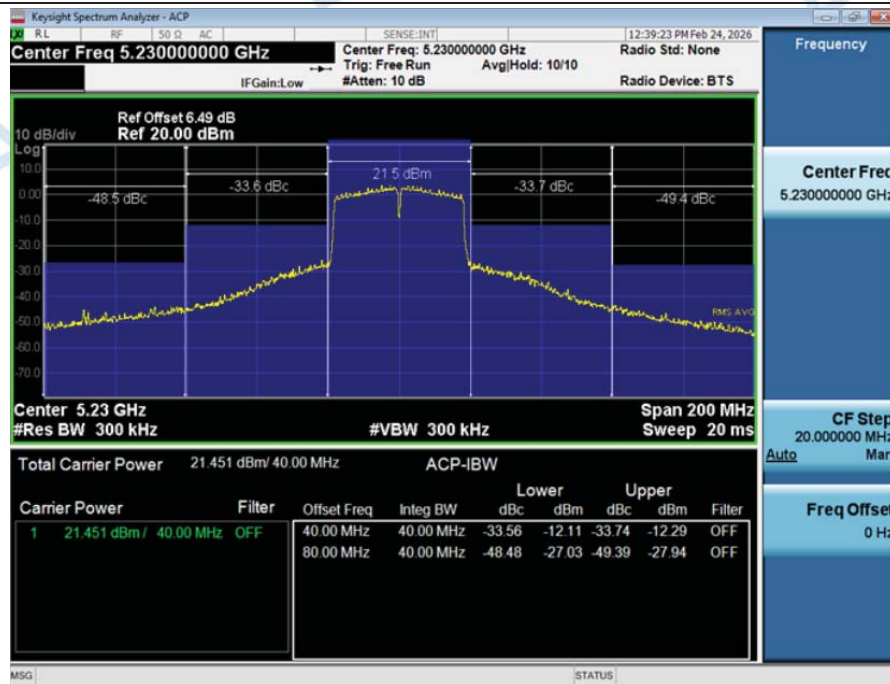
ACP_Measure_NVNT_ANT1_802_11ac(VHT20)_5240



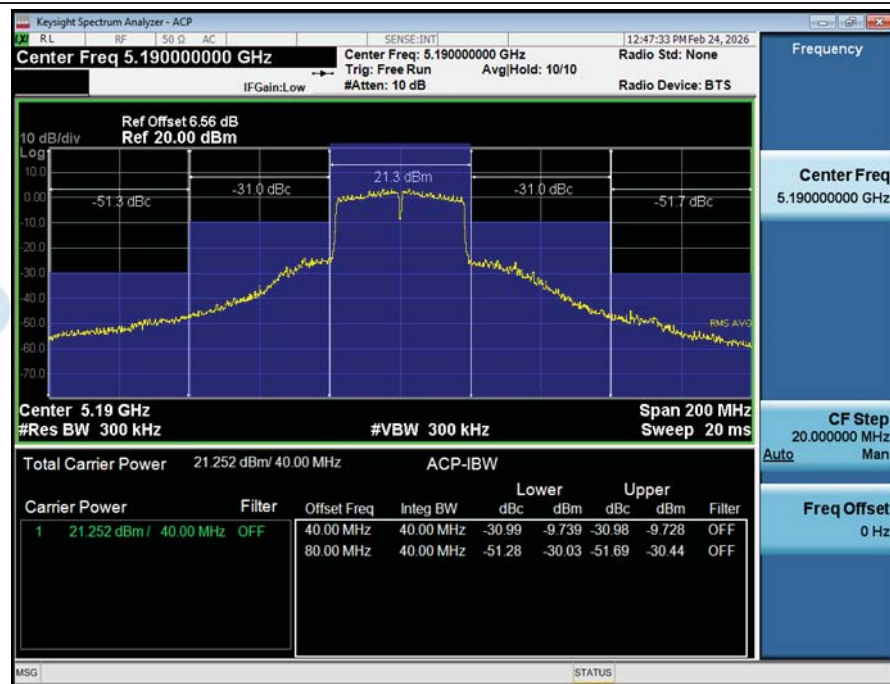
ACP_Measure_NVNT_ANT1_802_11n(HT40)_5190



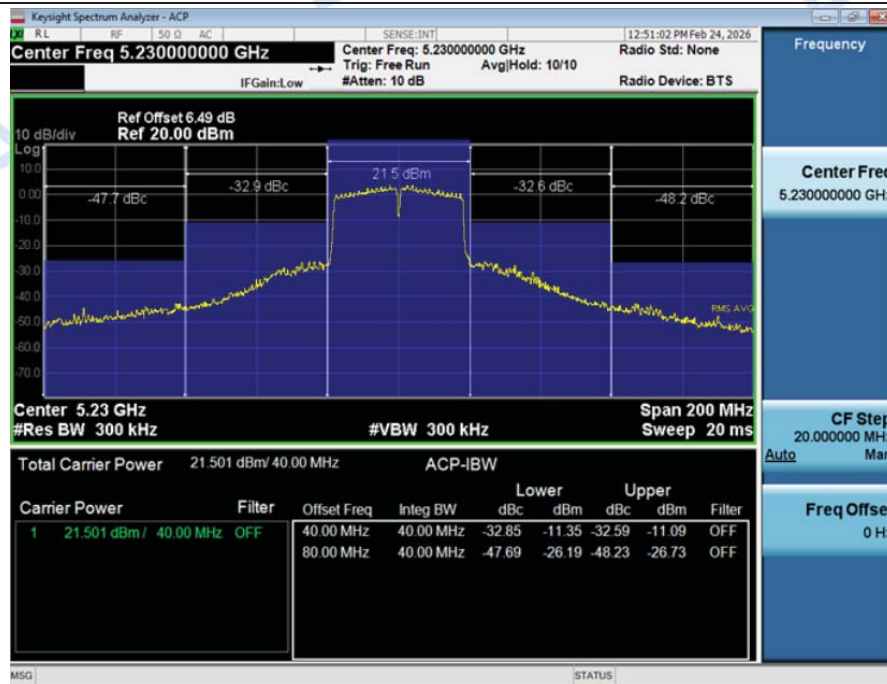
ACP_Measure_NVNT_ANT1_802_11n(HT40)_5230



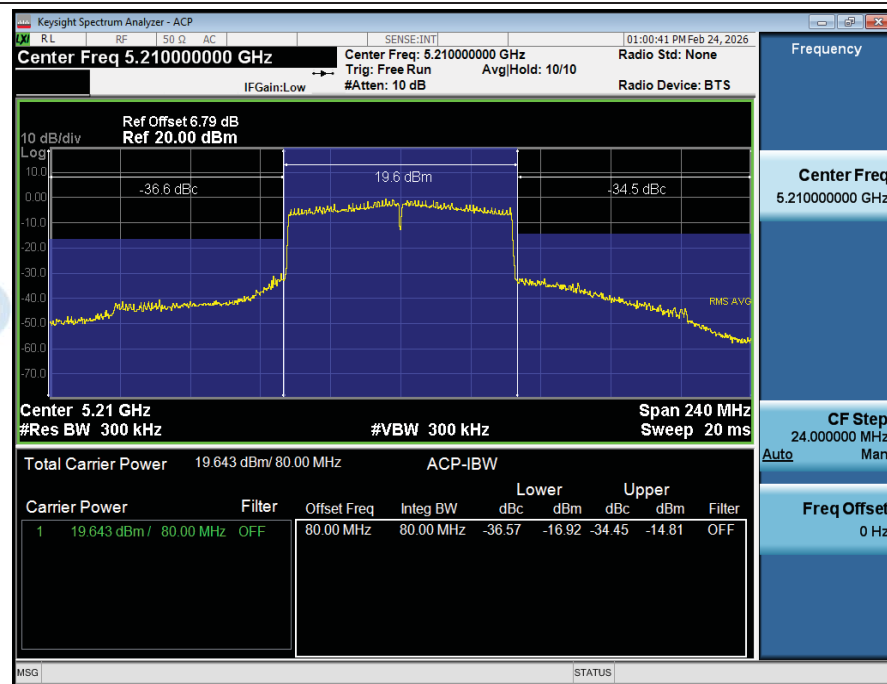
ACP_Measure_NVNT_ANT1_802_11ac(VHT40)_5190



ACP_Measure_NVNT_ANT1_802_11ac(VHT40)_5230



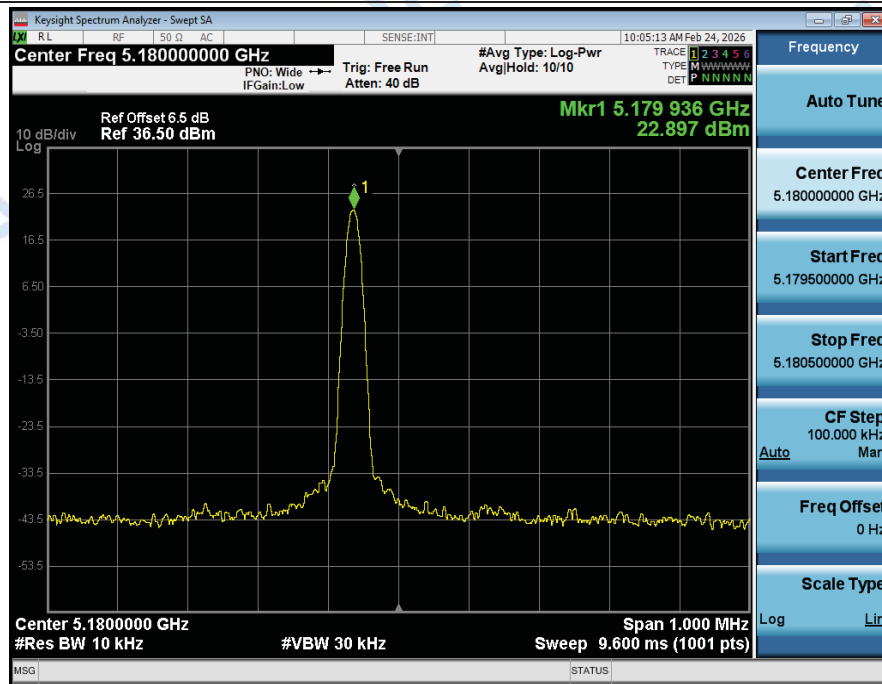
ACP_Measure_NVNT_ANT1_802_11ac(VHT80)_5210



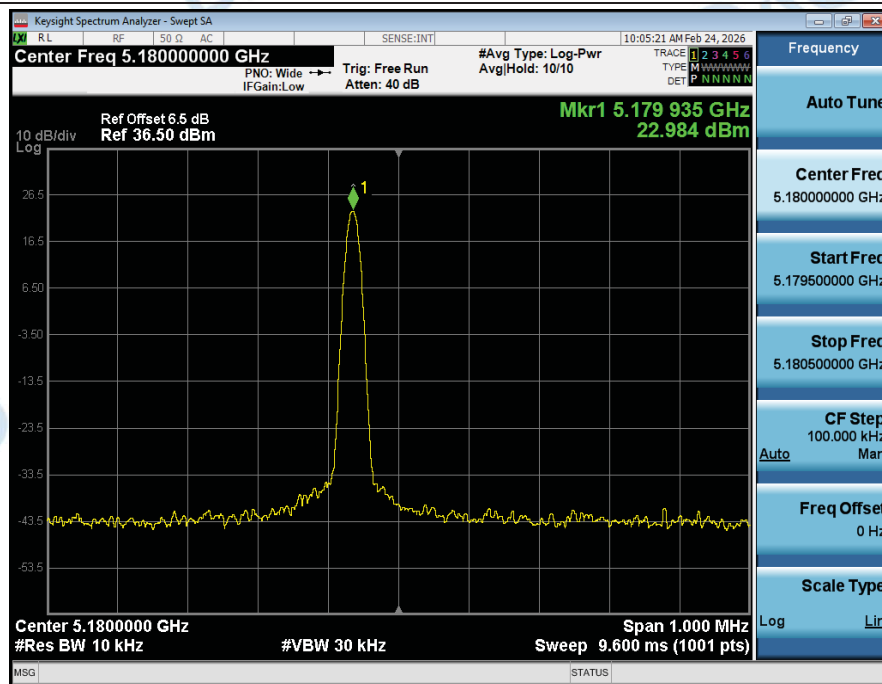
7. Frequency Tolerance

Condition	Antenna	Modulation	Frequency (MHz)	Test Frequency(MHz)	Frequency Tolerance(ppm)	Limit(ppm)	Result
NTNV	ANT1	802.11a	5180.00	5179.936	-12.355	±20	Pass
NTLV	ANT1	802.11a	5180.00	5179.935	-12.548	±20	Pass
NTHV	ANT1	802.11a	5180.00	5179.935	-12.548	±20	Pass
NTNV	ANT1	802.11a	5200.00	5199.937	-12.115	±20	Pass
NTLV	ANT1	802.11a	5200.00	5199.937	-12.115	±20	Pass
NTHV	ANT1	802.11a	5200.00	5199.937	-12.115	±20	Pass
NTNV	ANT1	802.11a	5240.00	5239.937	-12.023	±20	Pass
NTLV	ANT1	802.11a	5240.00	5239.937	-12.023	±20	Pass
NTHV	ANT1	802.11a	5240.00	5239.937	-12.023	±20	Pass
NTNV	ANT1	802.11n(HT20)	5180.00	5179.938	-11.969	±20	Pass
NTLV	ANT1	802.11n(HT20)	5180.00	5179.938	-11.969	±20	Pass
NTHV	ANT1	802.11n(HT20)	5180.00	5179.938	-11.969	±20	Pass
NTNV	ANT1	802.11n(HT20)	5200.00	5199.937	-12.115	±20	Pass
NTLV	ANT1	802.11n(HT20)	5200.00	5199.937	-12.115	±20	Pass
NTHV	ANT1	802.11n(HT20)	5200.00	5199.937	-12.115	±20	Pass
NTNV	ANT1	802.11n(HT20)	5240.00	5239.936	-12.214	±20	Pass
NTLV	ANT1	802.11n(HT20)	5240.00	5239.936	-12.214	±20	Pass
NTHV	ANT1	802.11n(HT20)	5240.00	5239.936	-12.214	±20	Pass
NTNV	ANT1	802.11ac(VHT20)	5180.00	5179.937	-12.162	±20	Pass
NTLV	ANT1	802.11ac(VHT20)	5180.00	5179.937	-12.162	±20	Pass
NTHV	ANT1	802.11ac(VHT20)	5180.00	5179.937	-12.162	±20	Pass
NTNV	ANT1	802.11ac(VHT20)	5200.00	5199.937	-12.115	±20	Pass
NTLV	ANT1	802.11ac(VHT20)	5200.00	5199.936	-12.308	±20	Pass
NTHV	ANT1	802.11ac(VHT20)	5200.00	5199.936	-12.308	±20	Pass
NTNV	ANT1	802.11ac(VHT20)	5240.00	5239.936	-12.214	±20	Pass
NTLV	ANT1	802.11ac(VHT20)	5240.00	5239.936	-12.214	±20	Pass
NTHV	ANT1	802.11ac(VHT20)	5240.00	5239.936	-12.214	±20	Pass
NTNV	ANT1	802.11n(HT40)	5190.00	5189.935	-12.524	±20	Pass
NTLV	ANT1	802.11n(HT40)	5190.00	5189.935	-12.524	±20	Pass
NTHV	ANT1	802.11n(HT40)	5190.00	5189.935	-12.524	±20	Pass
NTNV	ANT1	802.11n(HT40)	5230.00	5229.934	-12.620	±20	Pass
NTLV	ANT1	802.11n(HT40)	5230.00	5229.933	-12.811	±20	Pass
NTHV	ANT1	802.11n(HT40)	5230.00	5229.933	-12.811	±20	Pass
NTNV	ANT1	802.11ac(VHT40)	5190.00	5189.935	-12.524	±20	Pass
NTLV	ANT1	802.11ac(VHT40)	5190.00	5189.935	-12.524	±20	Pass
NTHV	ANT1	802.11ac(VHT40)	5190.00	5189.935	-12.524	±20	Pass
NTNV	ANT1	802.11ac(VHT40)	5230.00	5229.935	-12.428	±20	Pass
NTLV	ANT1	802.11ac(VHT40)	5230.00	5229.935	-12.428	±20	Pass
NTHV	ANT1	802.11ac(VHT40)	5230.00	5229.935	-12.428	±20	Pass
NTNV	ANT1	802.11ac(VHT80)	5210.00	5209.938	-11.900	±20	Pass
NTLV	ANT1	802.11ac(VHT80)	5210.00	5209.937	-12.092	±20	Pass
NTHV	ANT1	802.11ac(VHT80)	5210.00	5209.937	-12.092	±20	Pass

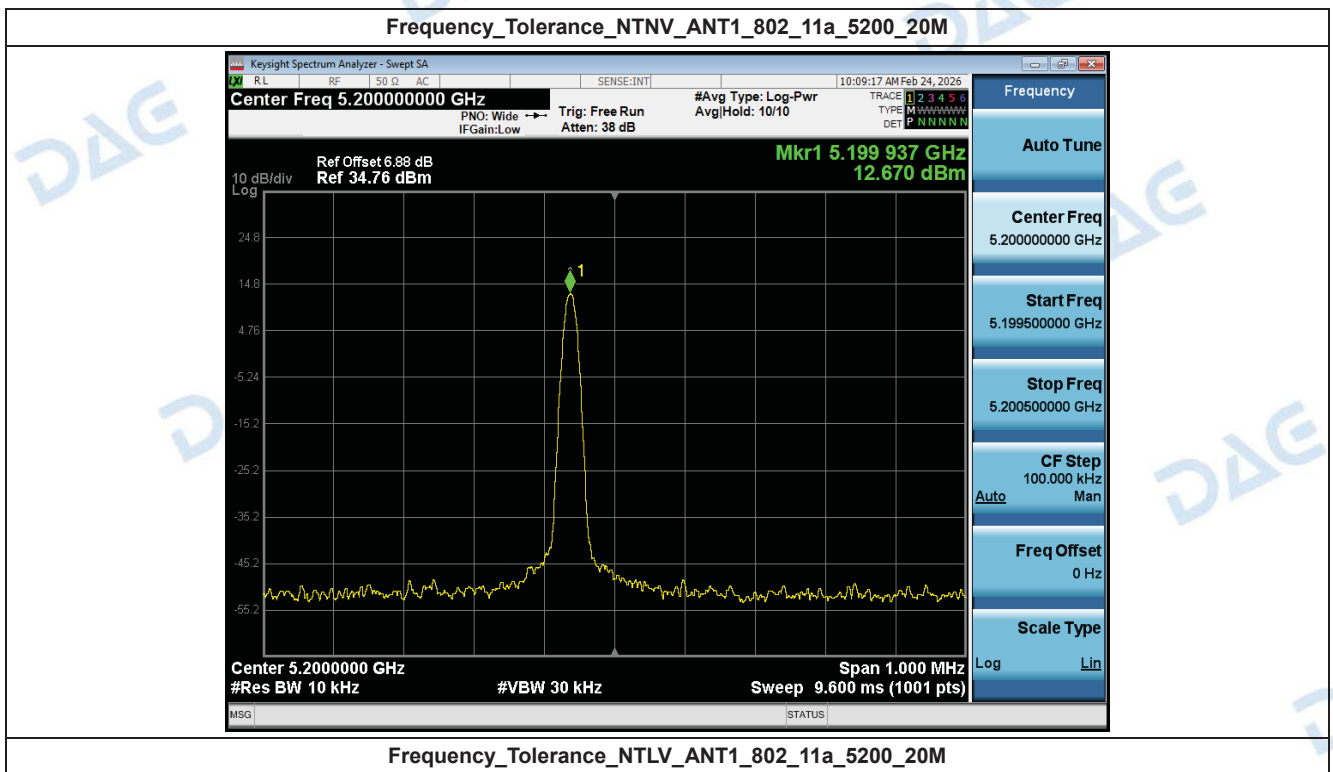
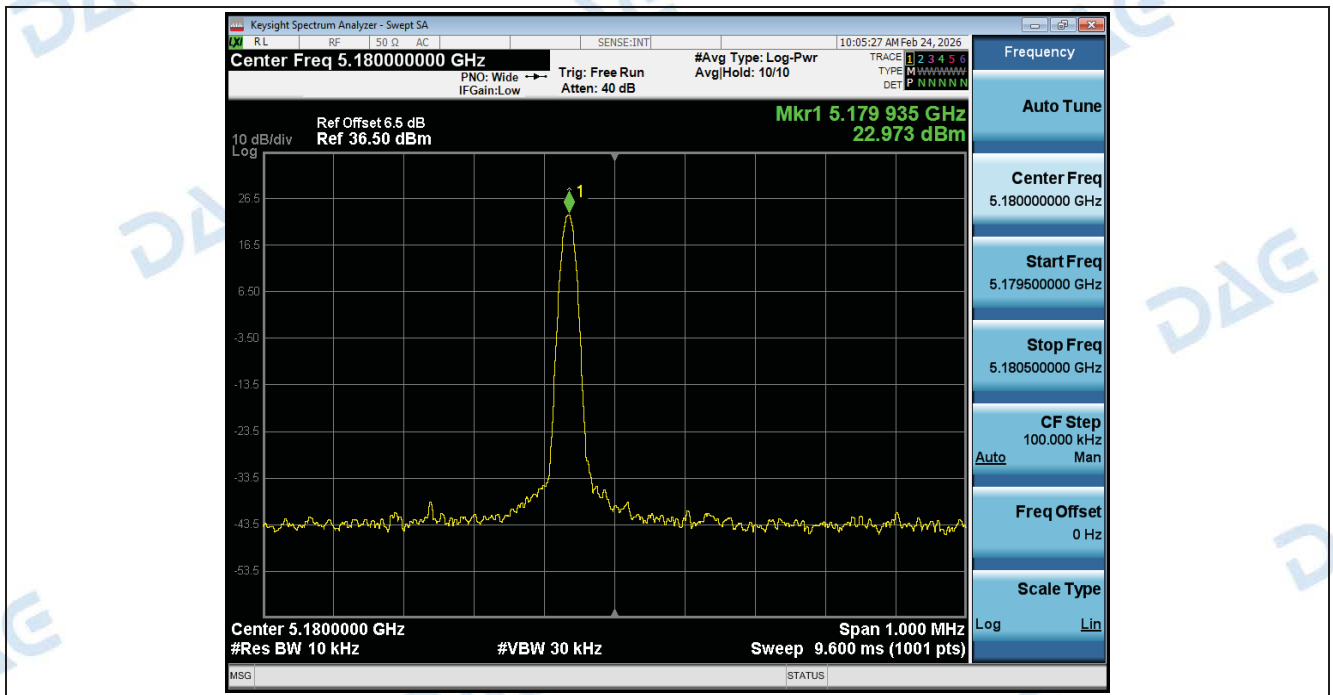
Frequency_Tolerance_NTNV_ANT1_802_11a_5180_20M

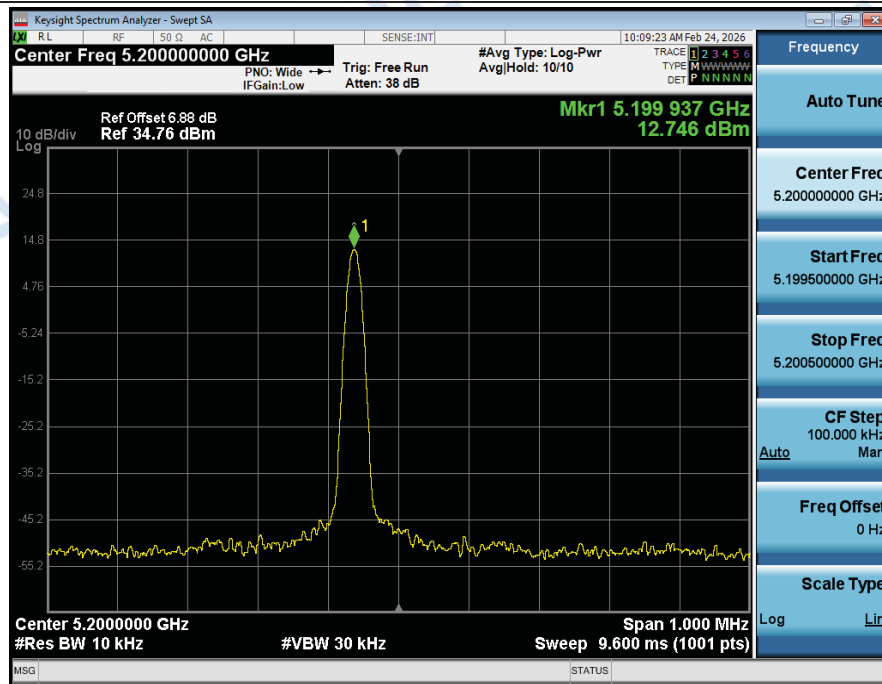


Frequency_Tolerance_NTLV_ANT1_802_11a_5180_20M

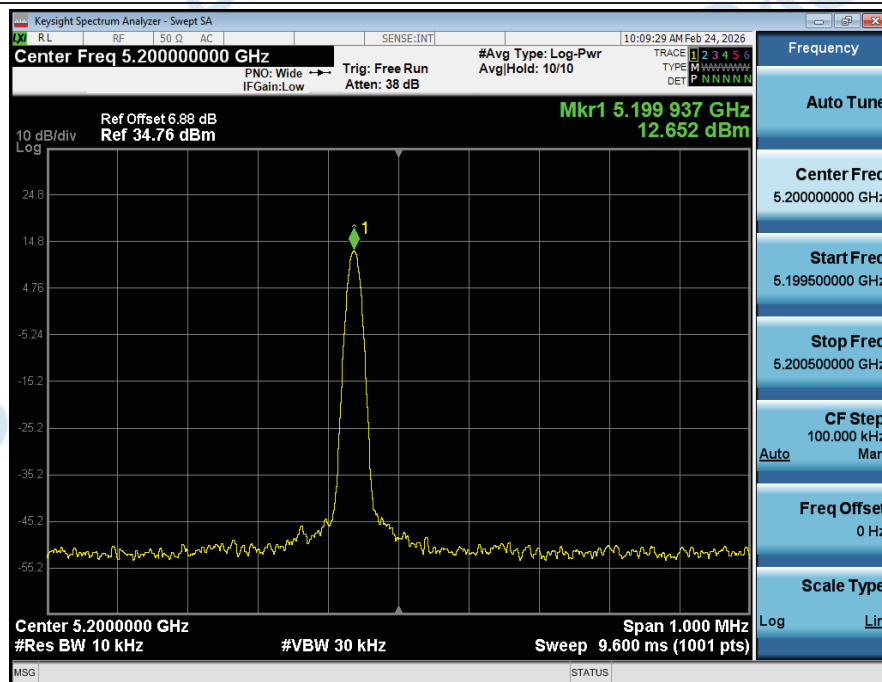


Frequency_Tolerance_NTHV_ANT1_802_11a_5180_20M

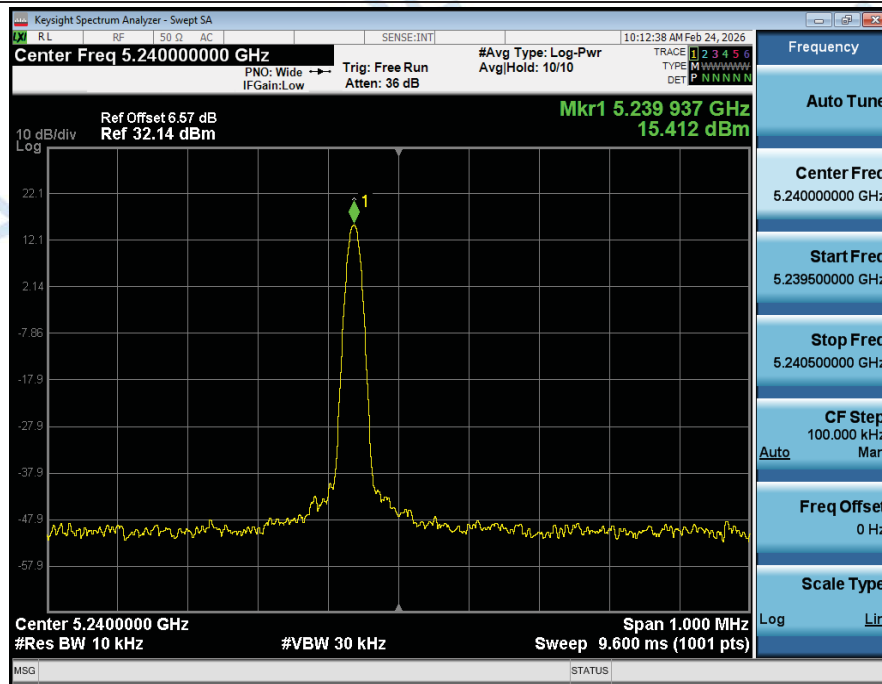




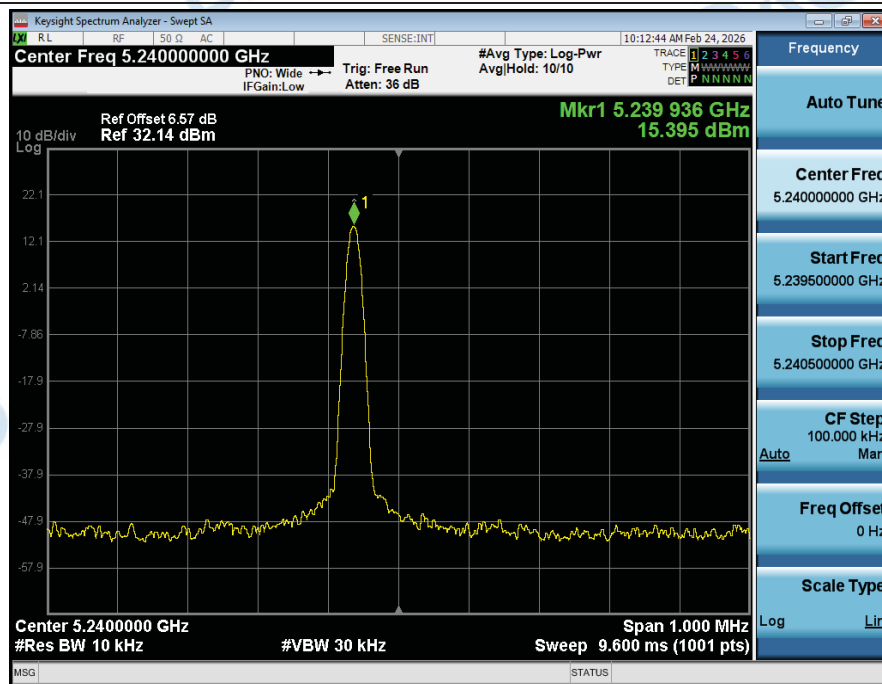
Frequency_Tolerance_NTHV_ANT1_802_11a_5200_20M



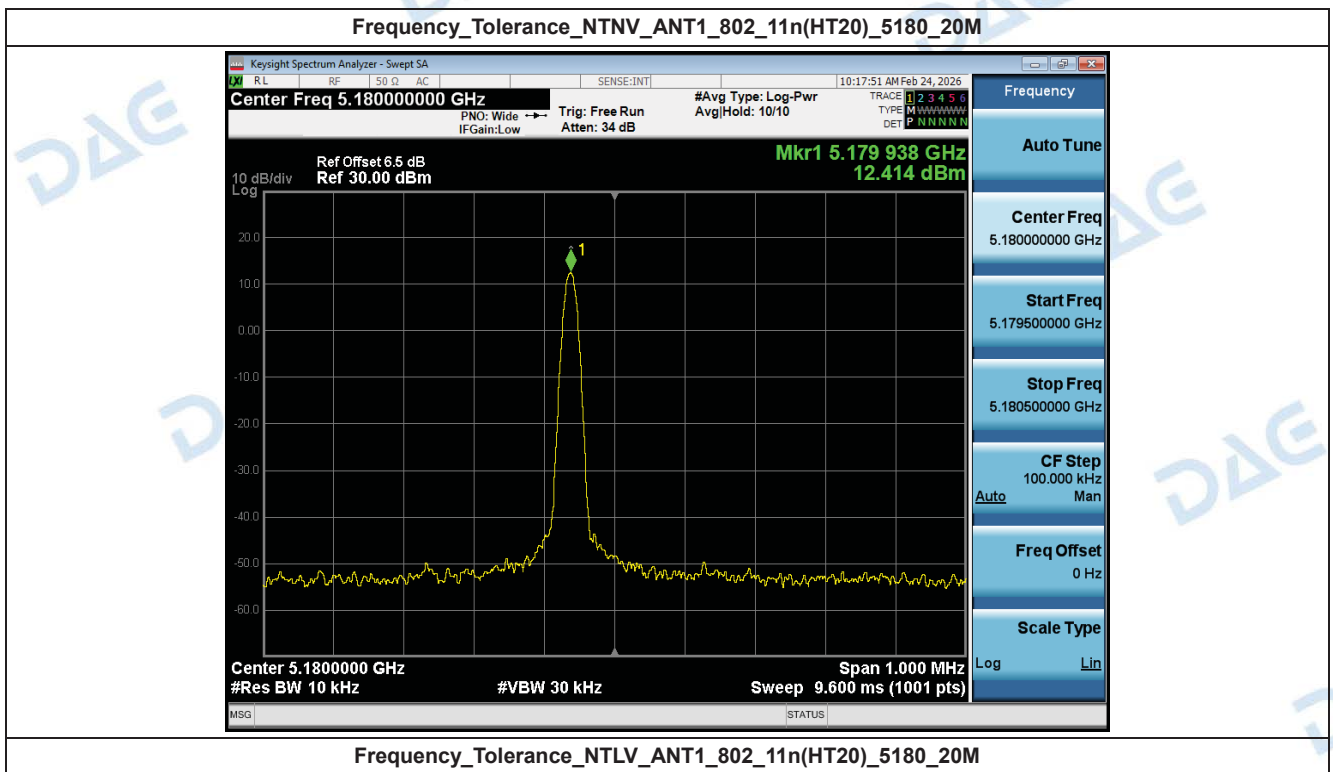
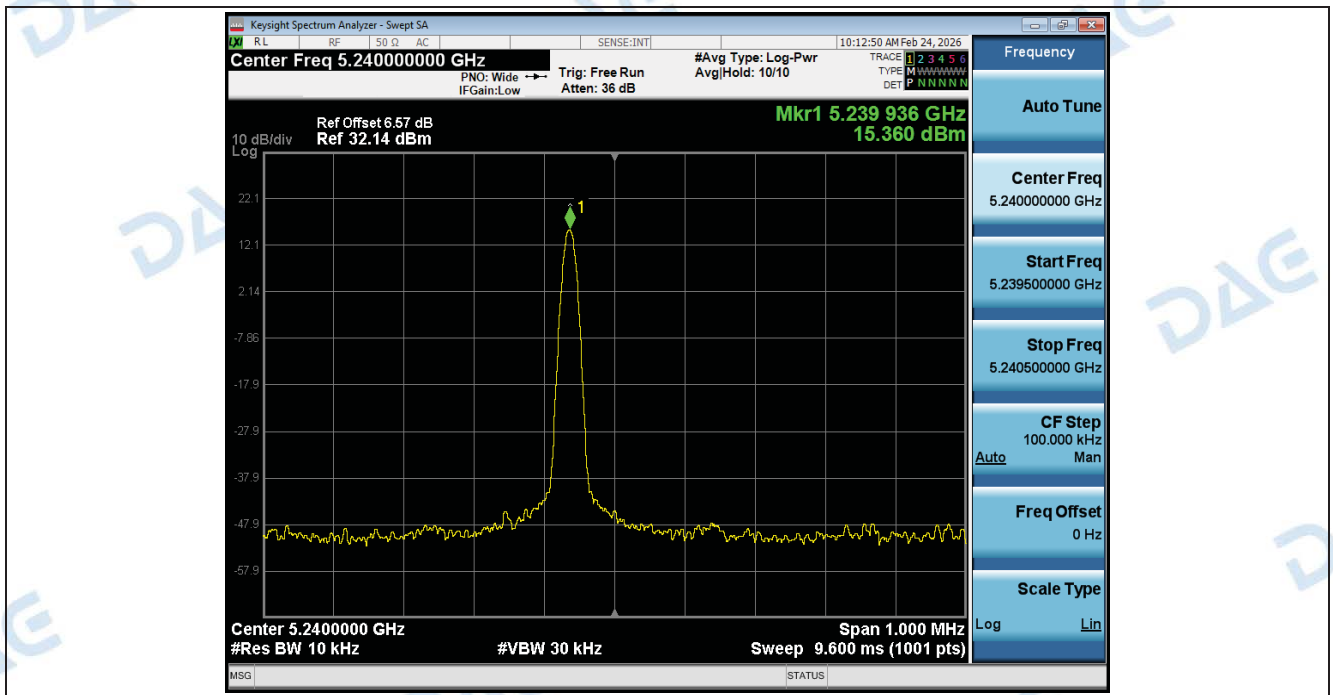
Frequency_Tolerance_NTNV_ANT1_802_11a_5240_20M

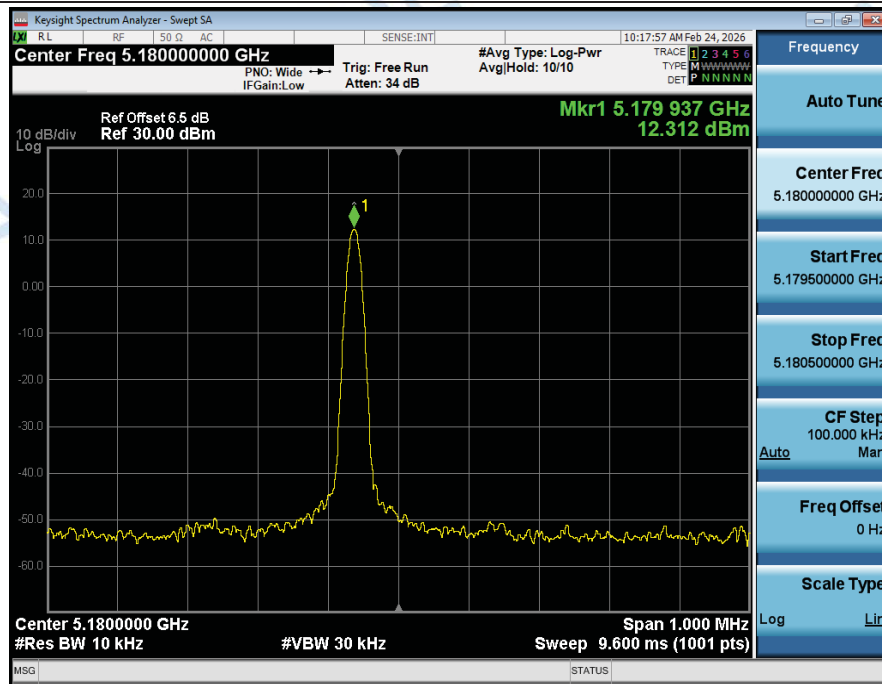


Frequency_Tolerance_NTLV_ANT1_802_11a_5240_20M

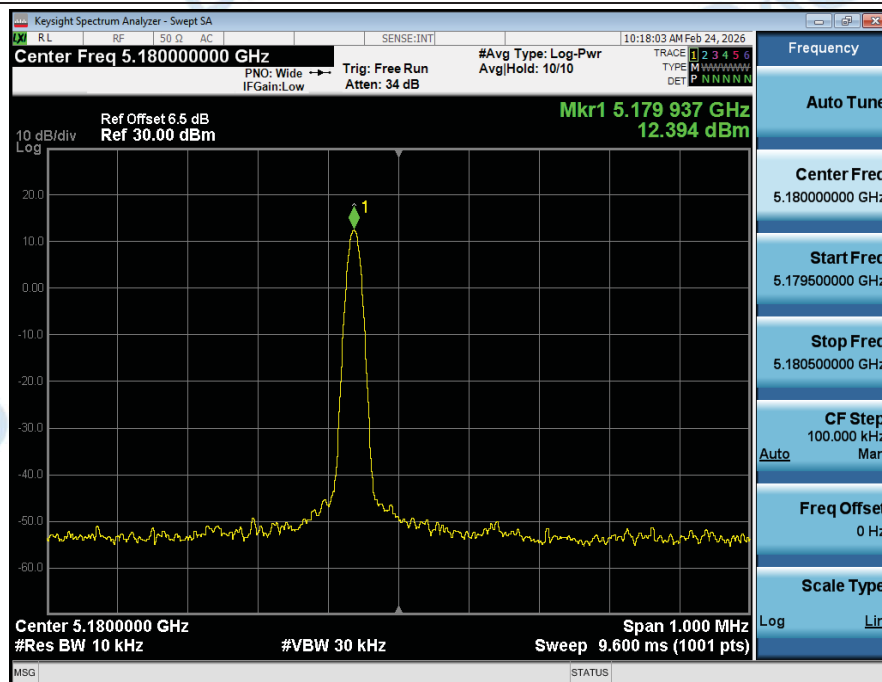


Frequency_Tolerance_NTHV_ANT1_802_11a_5240_20M

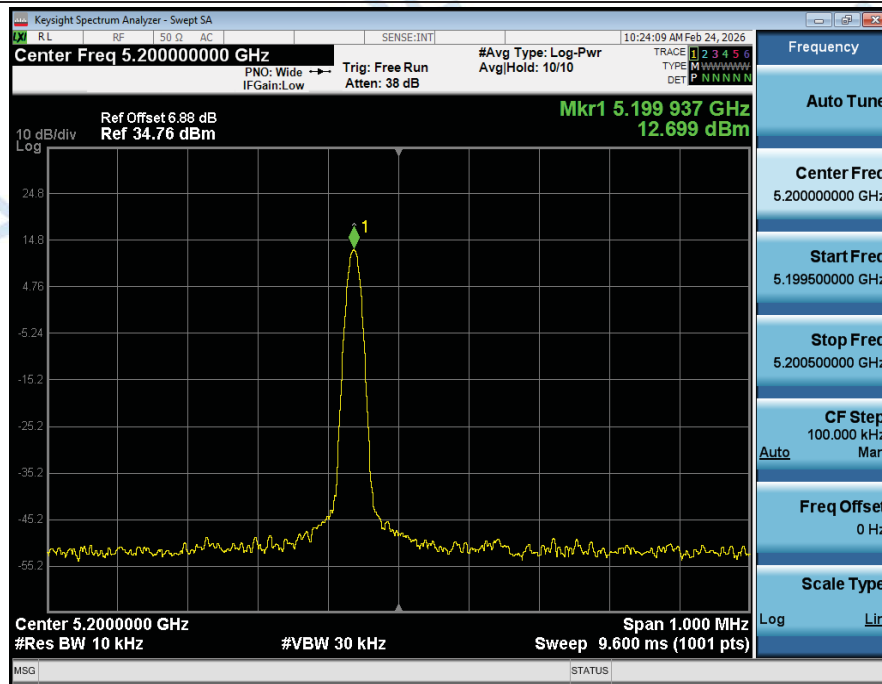




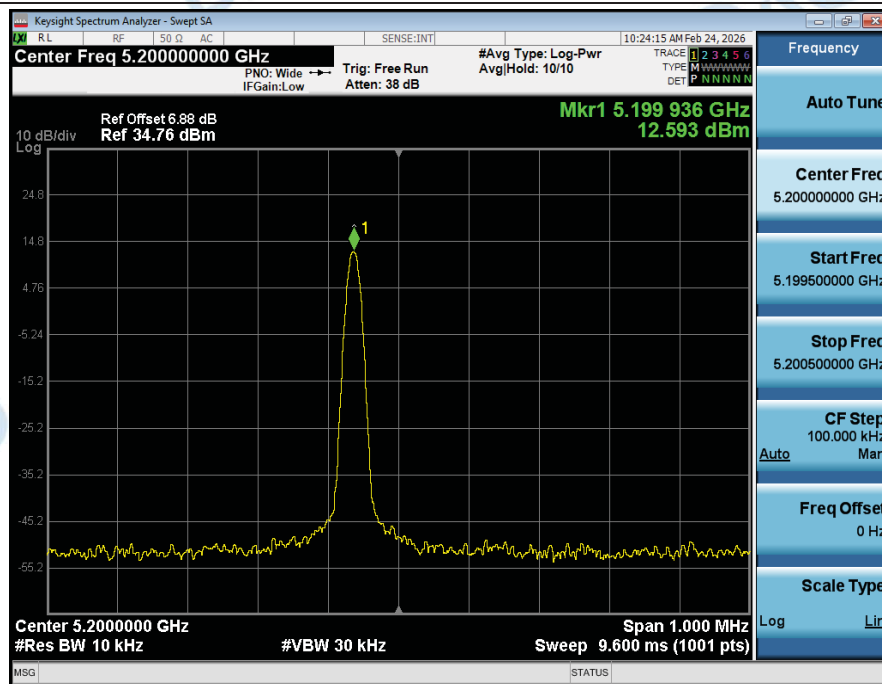
Frequency_Tolerance_NTHV_ANT1_802_11n(HT20)_5180_20M



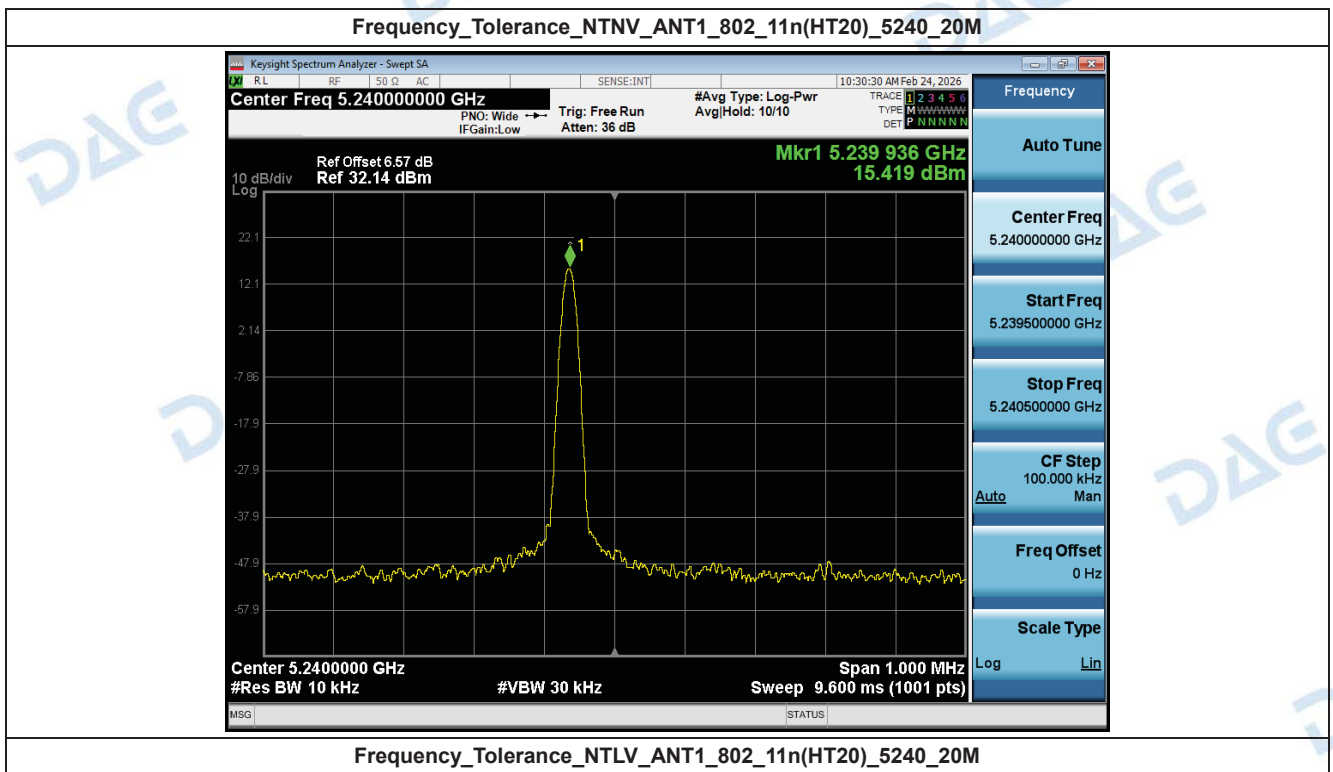
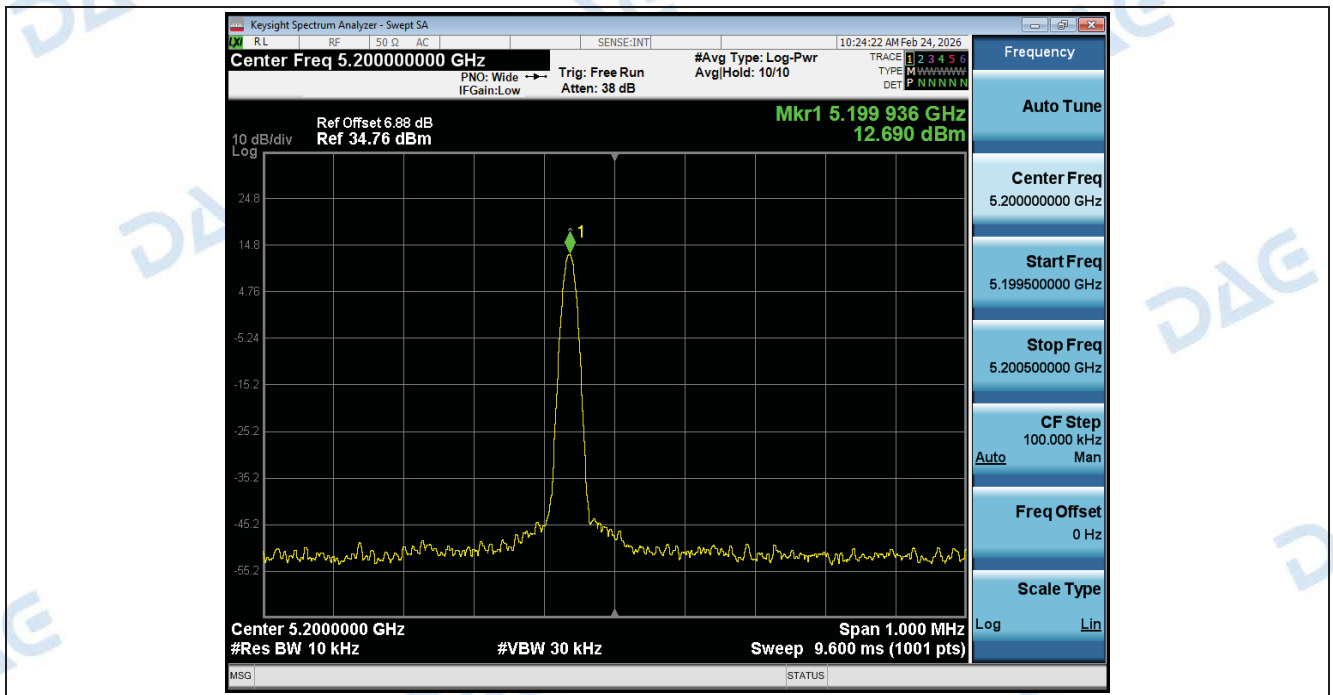
Frequency_Tolerance_NTNV_ANT1_802_11n(HT20)_5200_20M

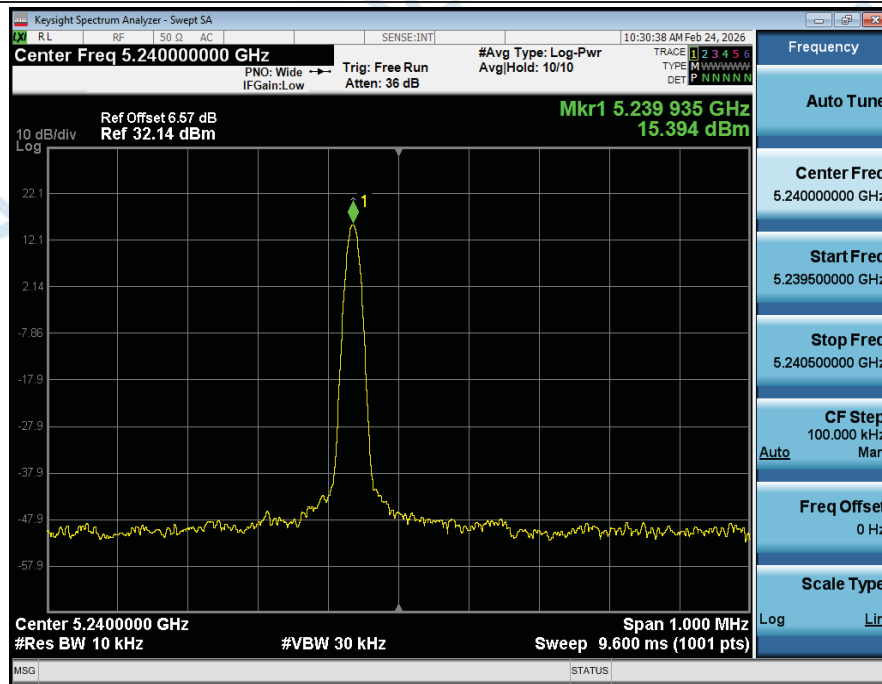


Frequency_Tolerance_NTLV_ANT1_802_11n(HT20)_5200_20M

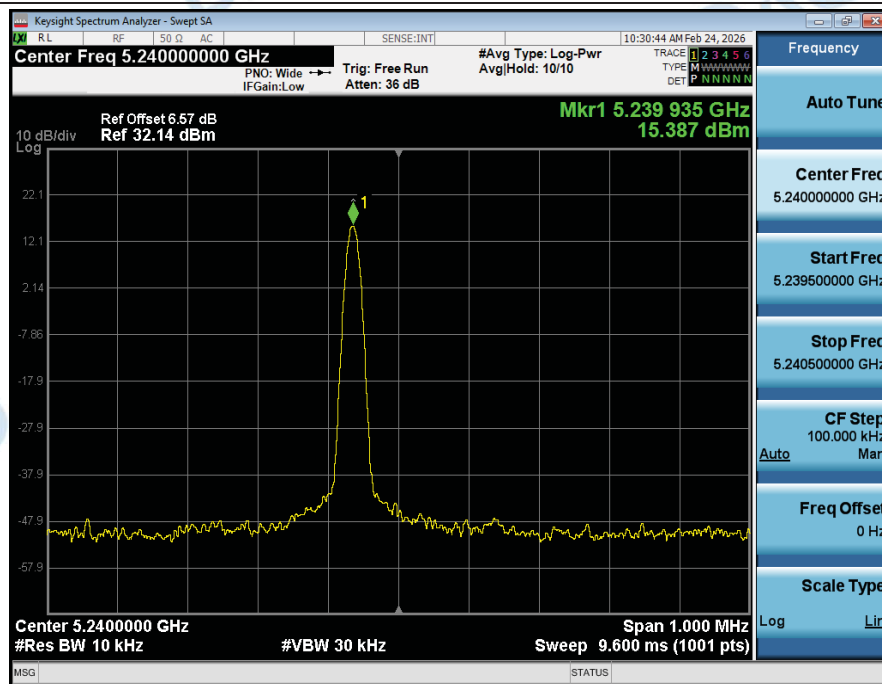


Frequency_Tolerance_NTHV_ANT1_802_11n(HT20)_5200_20M

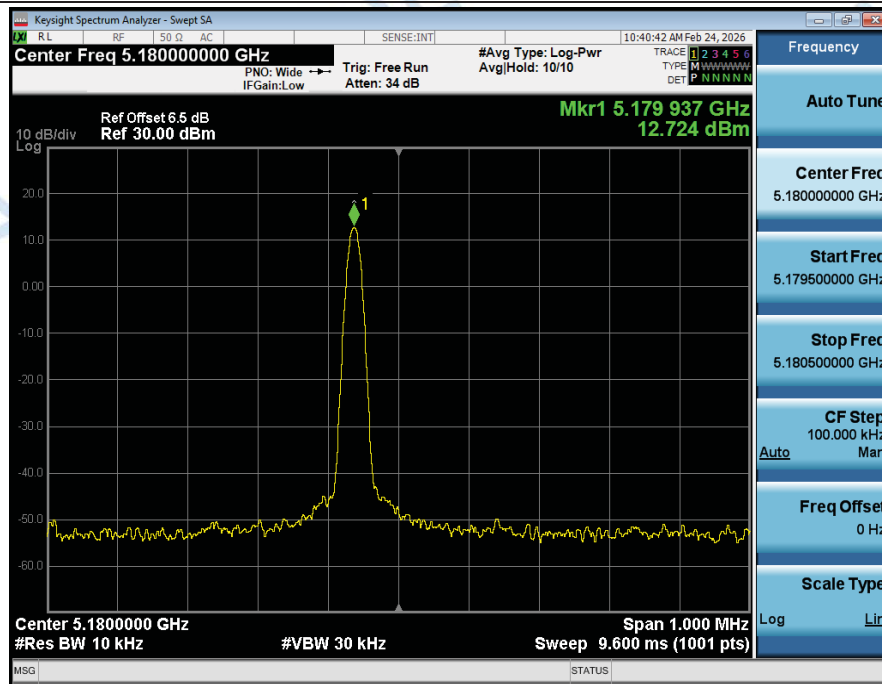




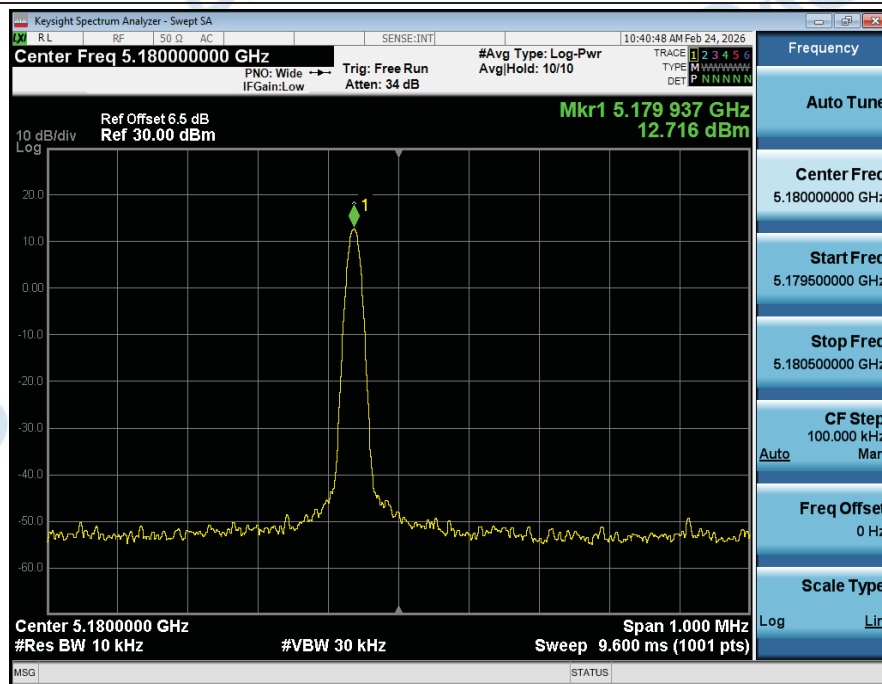
Frequency_Tolerance_NTHV_ANT1_802_11n(HT20)_5240_20M



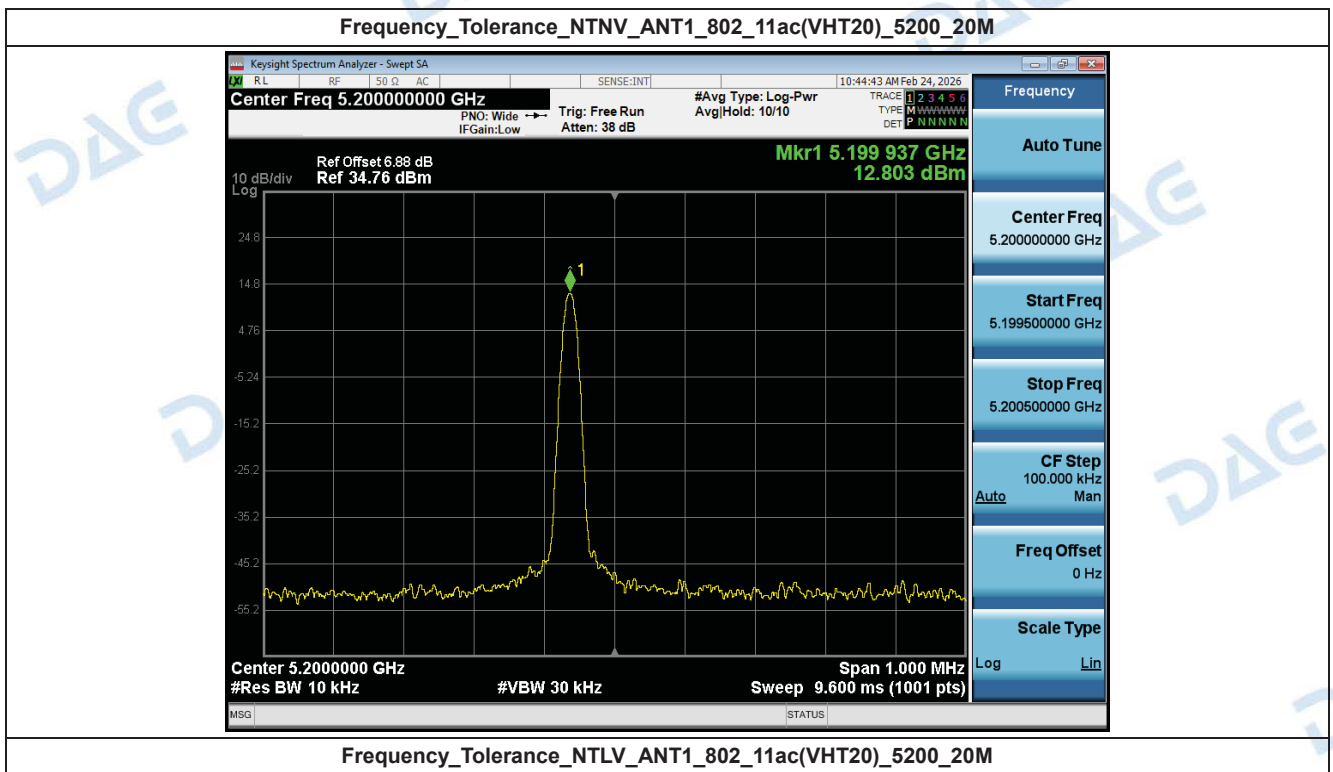
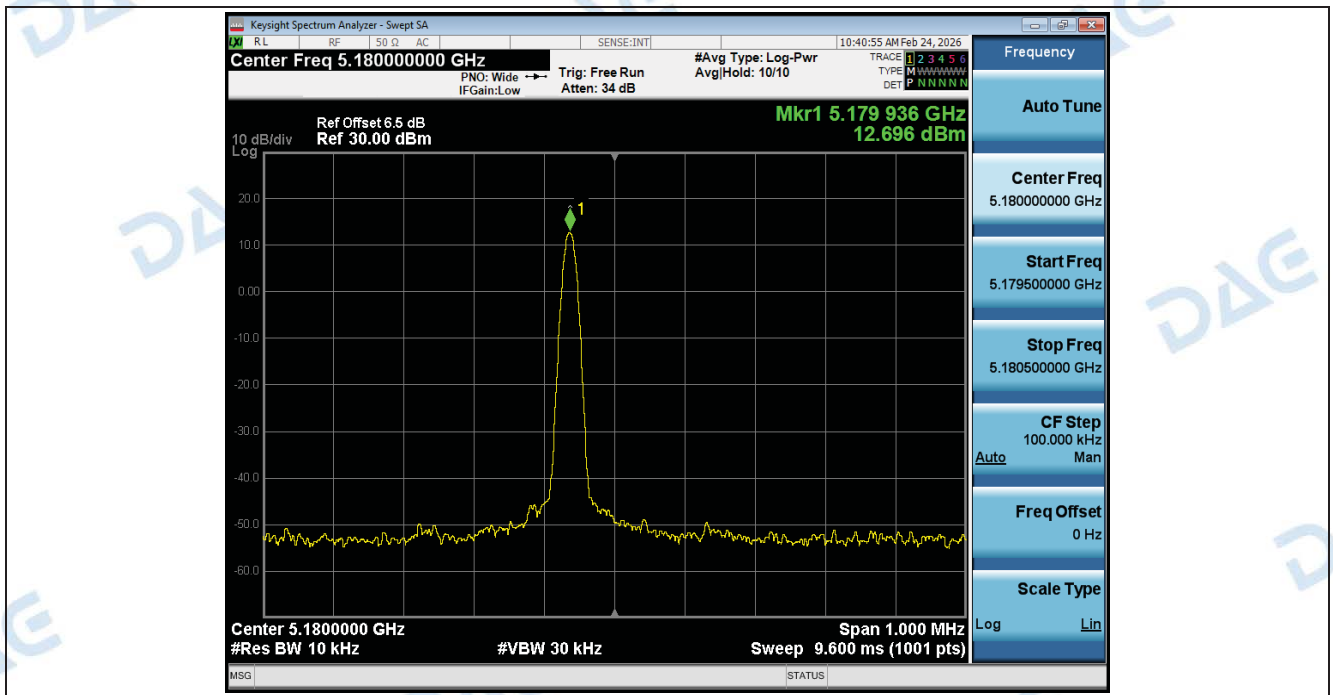
Frequency_Tolerance_NTNV_ANT1_802_11ac(VHT20)_5180_20M

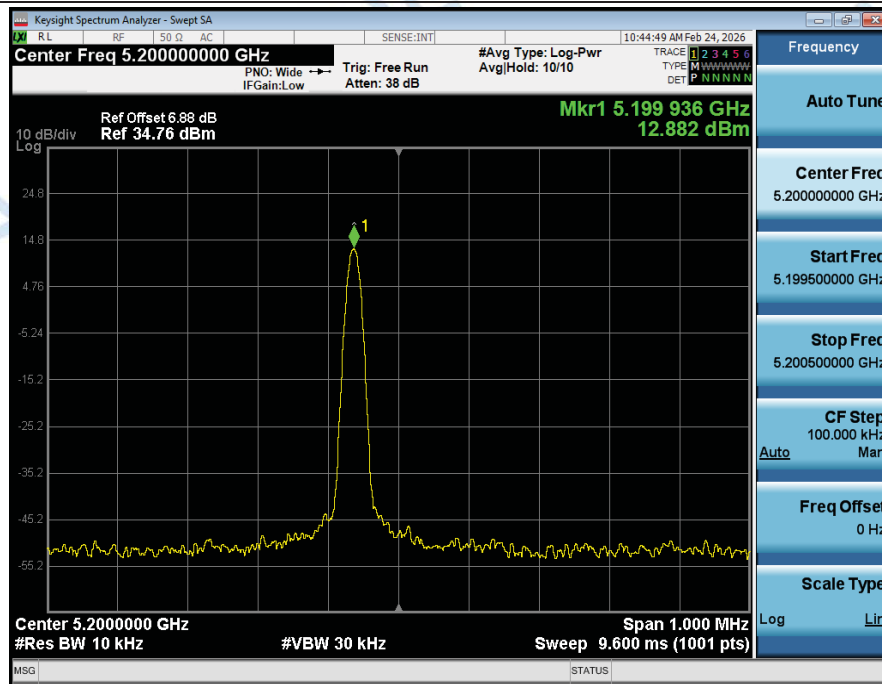


Frequency_Tolerance_NTLV_ANT1_802_11ac(VHT20)_5180_20M

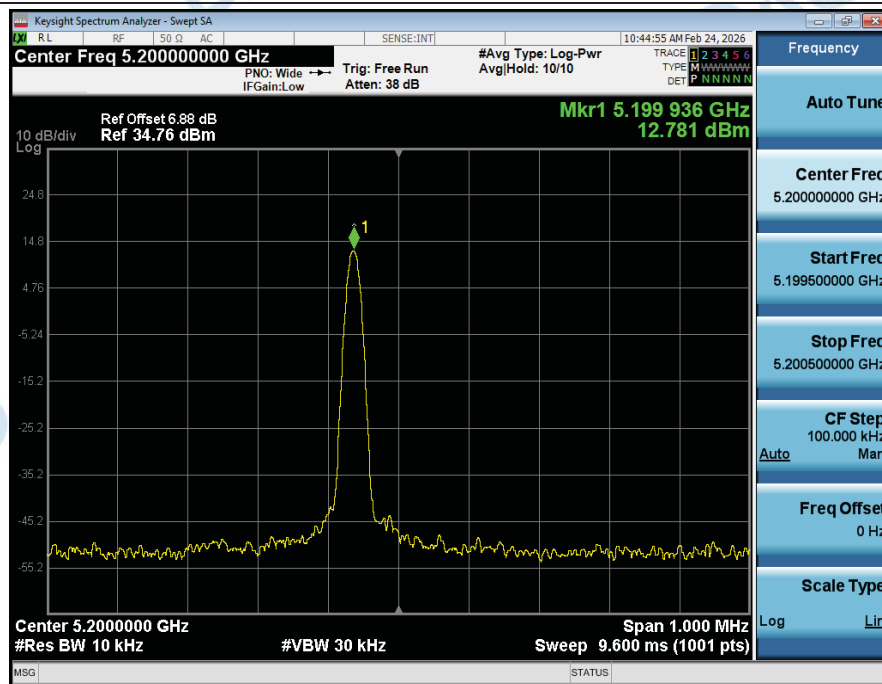


Frequency_Tolerance_NTHV_ANT1_802_11ac(VHT20)_5180_20M

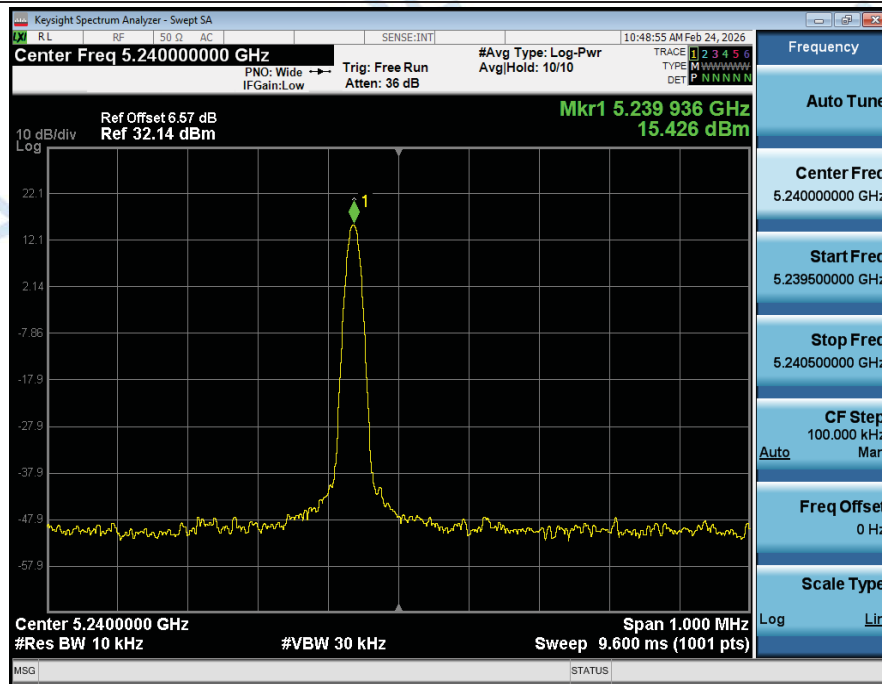




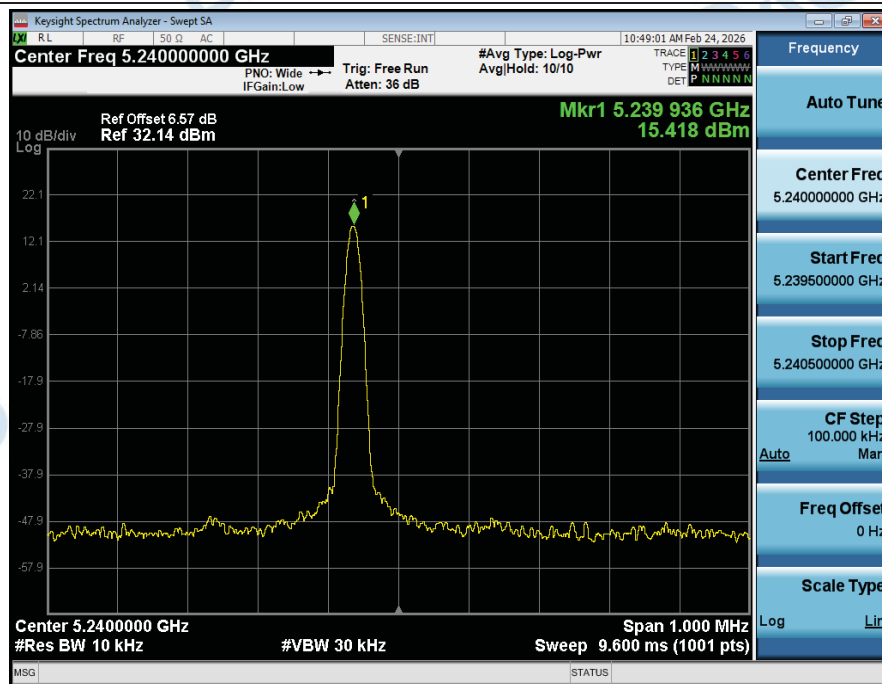
Frequency_Tolerance_NTHV_ANT1_802_11ac(VHT20)_5200_20M



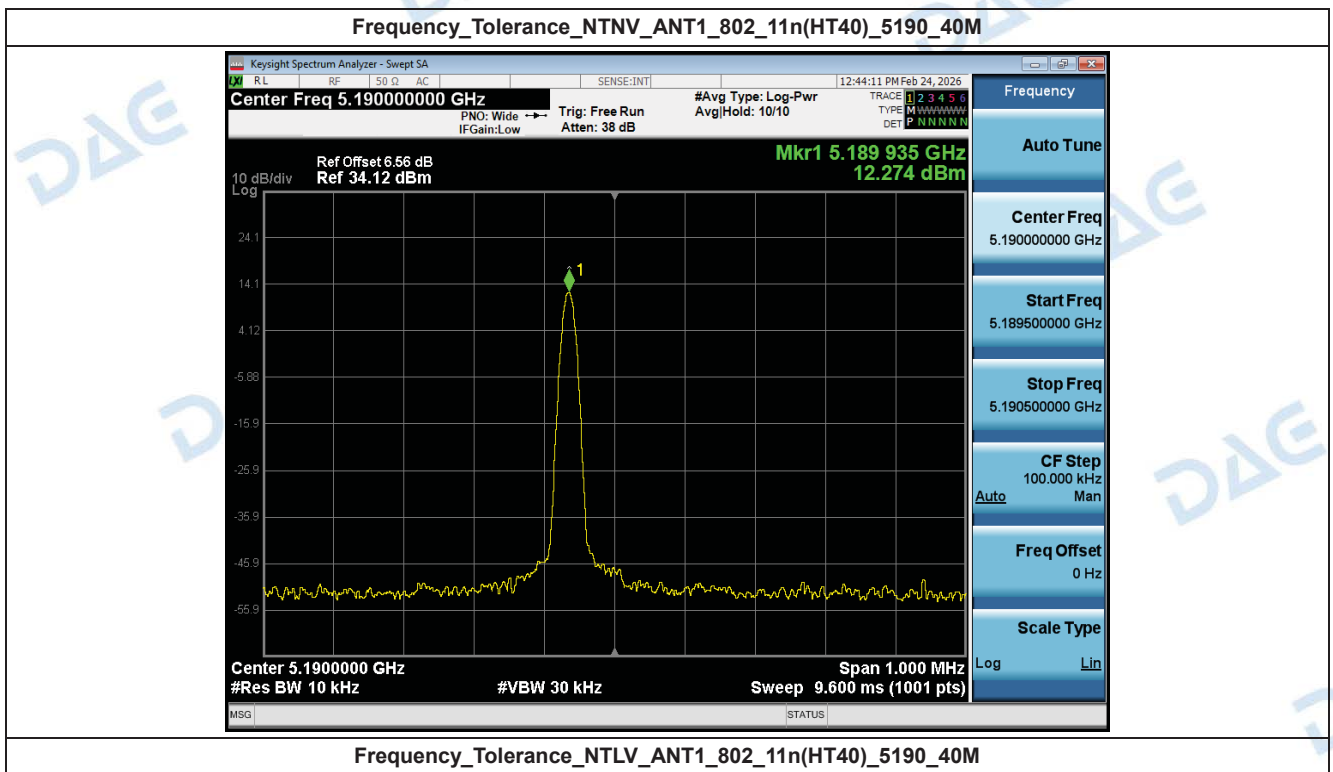
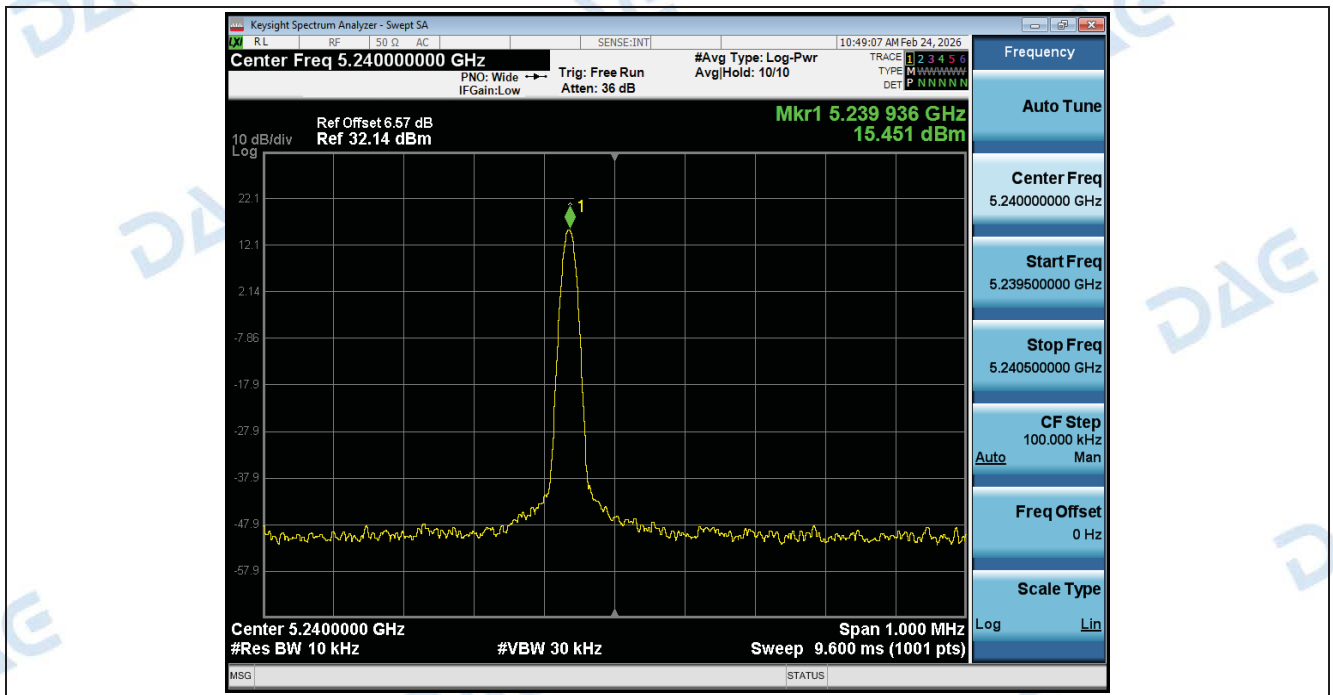
Frequency_Tolerance_NTNV_ANT1_802_11ac(VHT20)_5240_20M

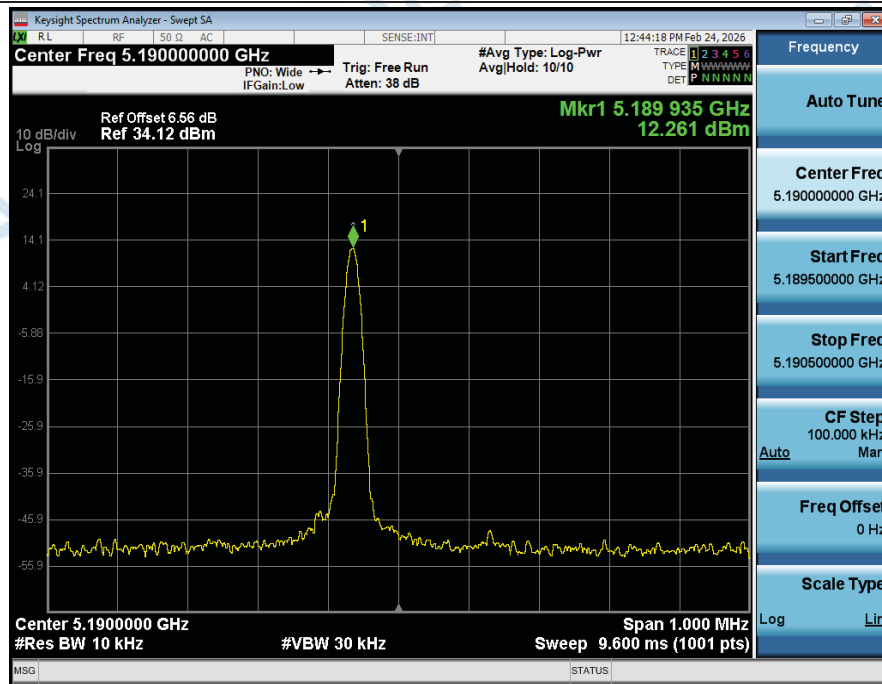


Frequency_Tolerance_NTLV_ANT1_802_11ac(VHT20)_5240_20M

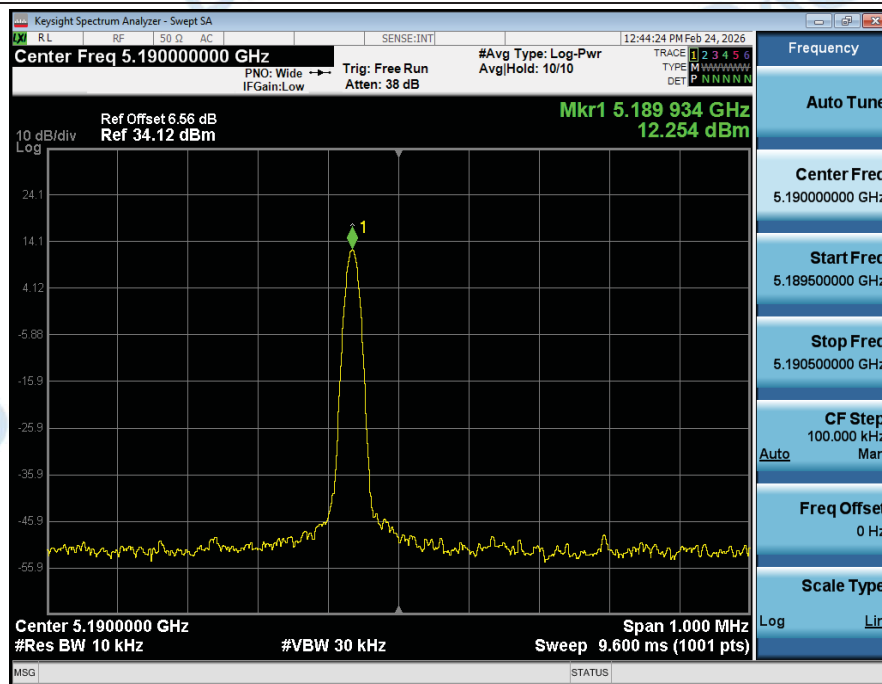


Frequency_Tolerance_NTHV_ANT1_802_11ac(VHT20)_5240_20M

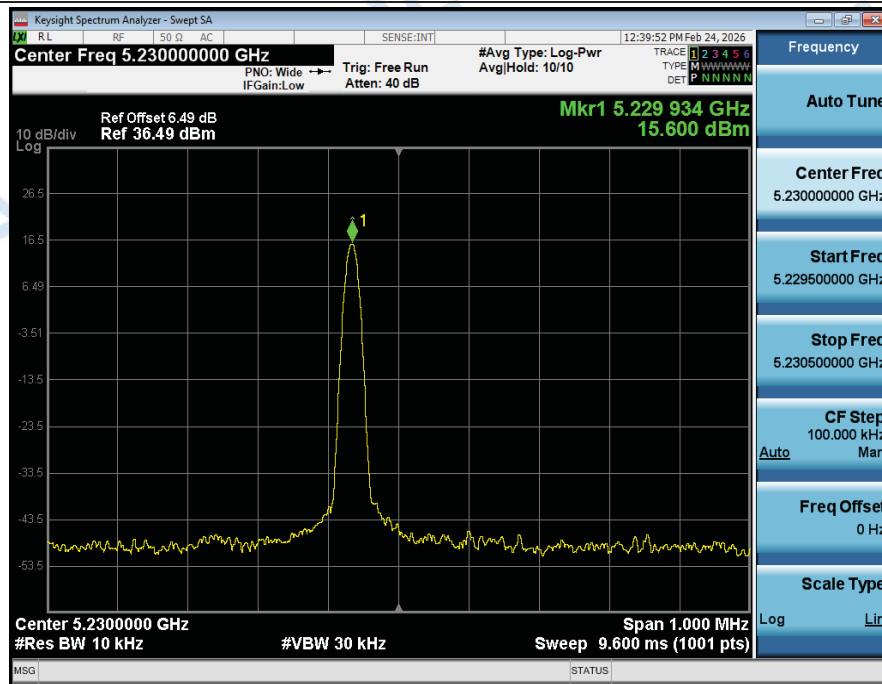




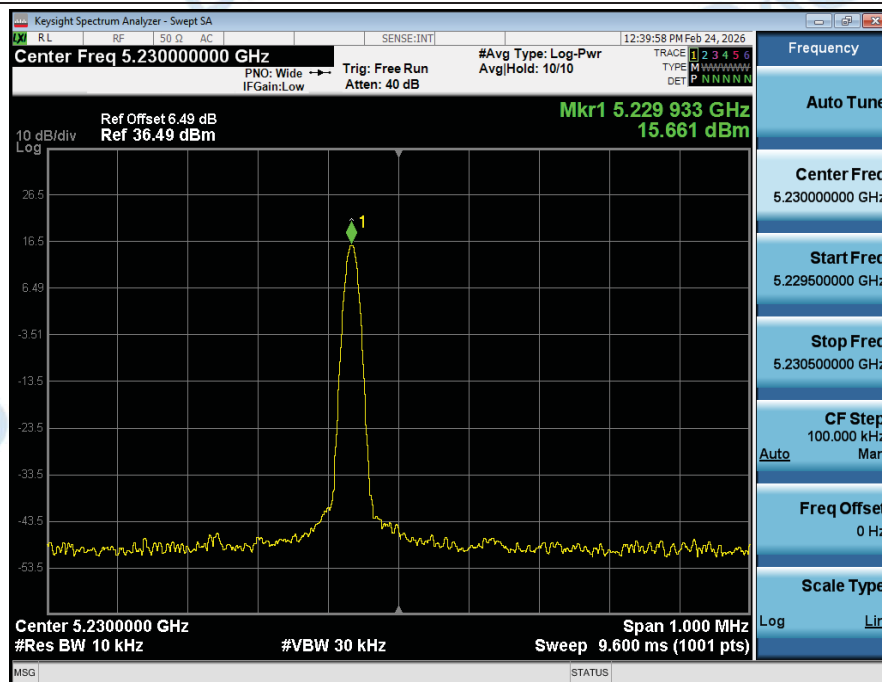
Frequency_Tolerance_NTHV_ANT1_802_11n(HT40)_5190_40M



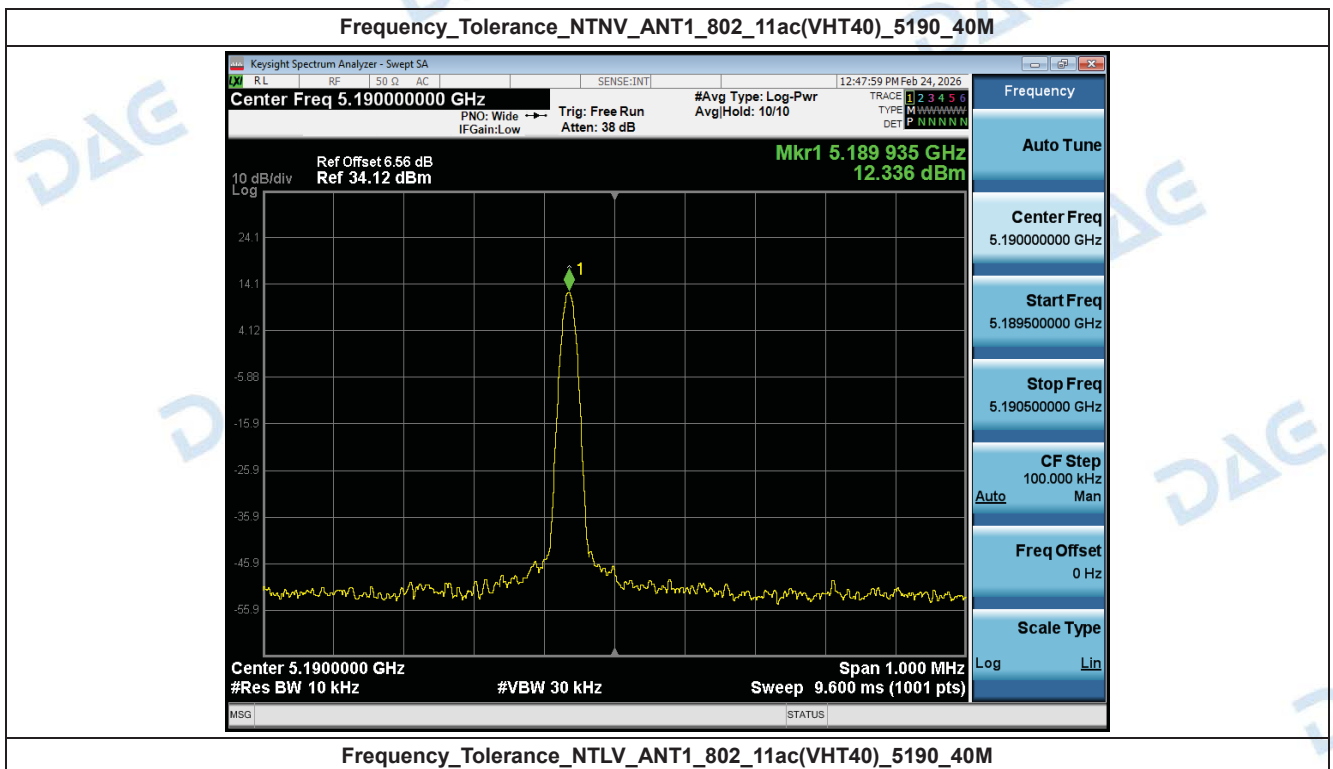
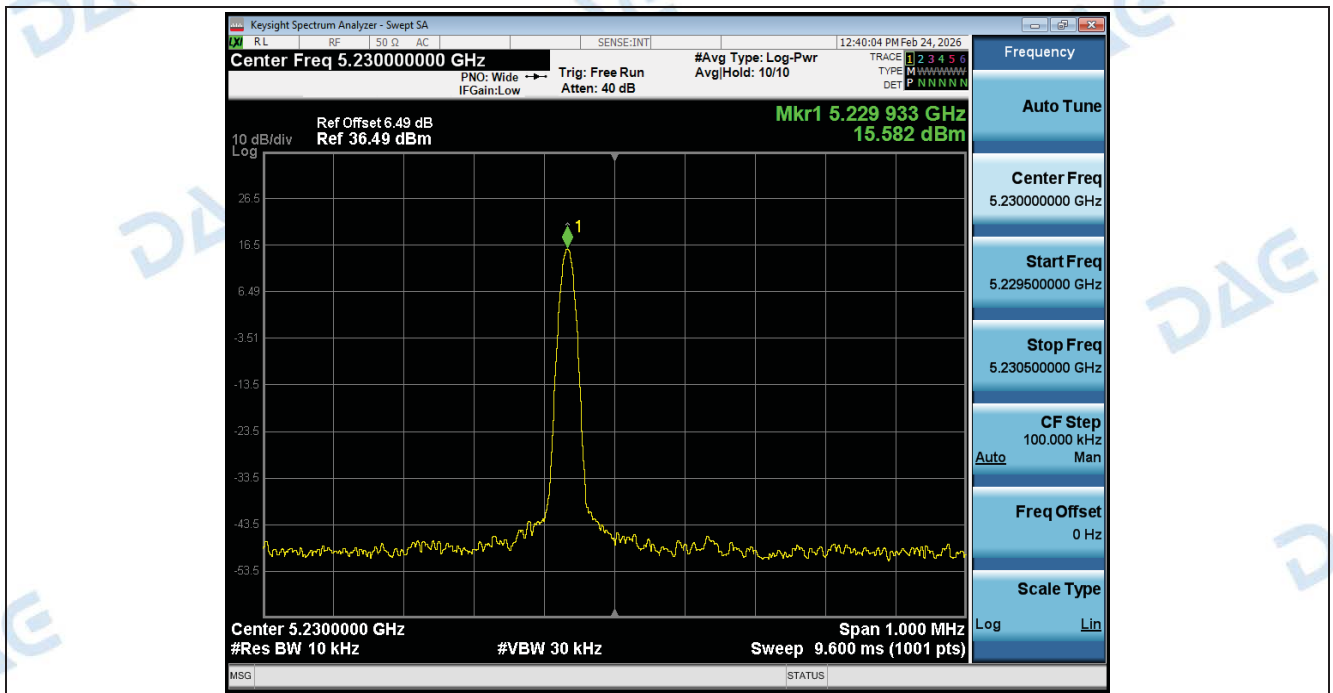
Frequency_Tolerance_NTNV_ANT1_802_11n(HT40)_5230_40M

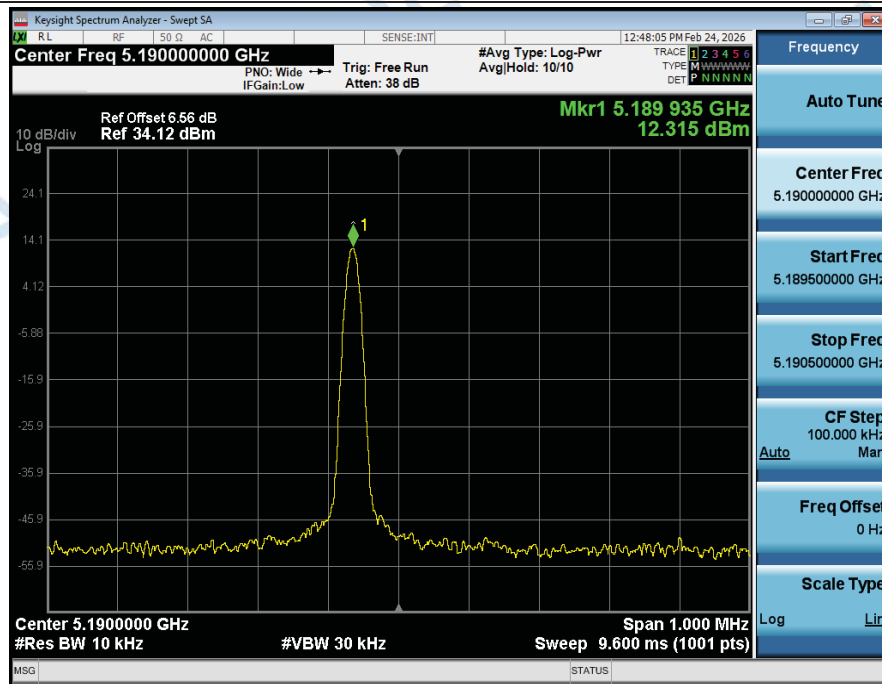


Frequency_Tolerance_NTLV_ANT1_802_11n(HT40)_5230_40M

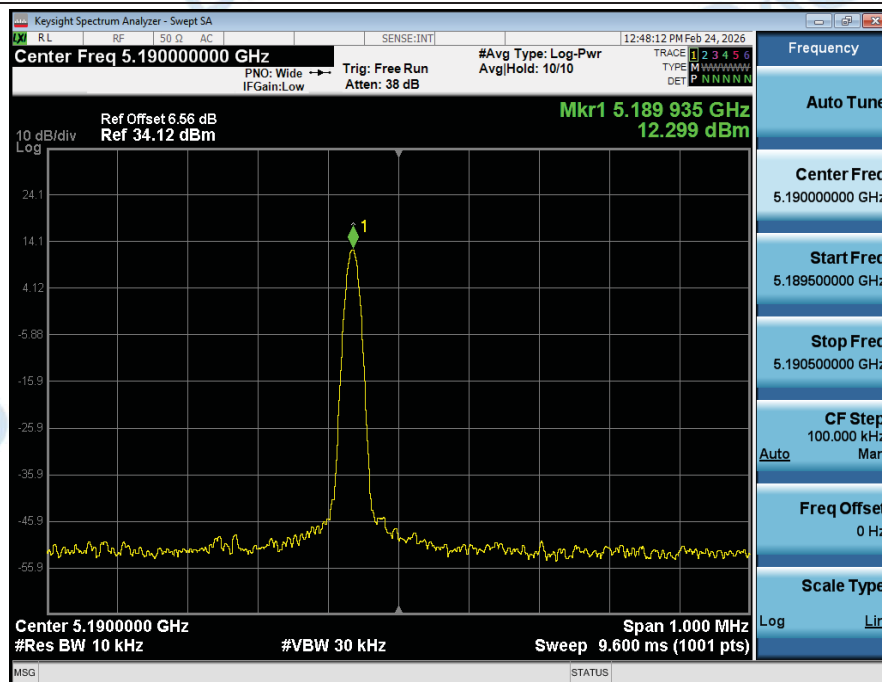


Frequency_Tolerance_NTHV_ANT1_802_11n(HT40)_5230_40M

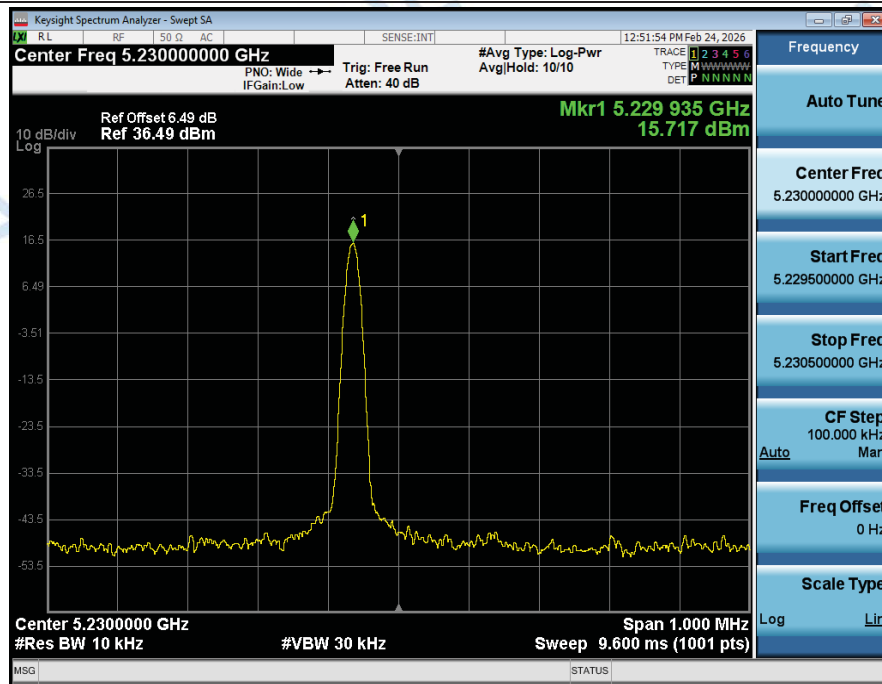




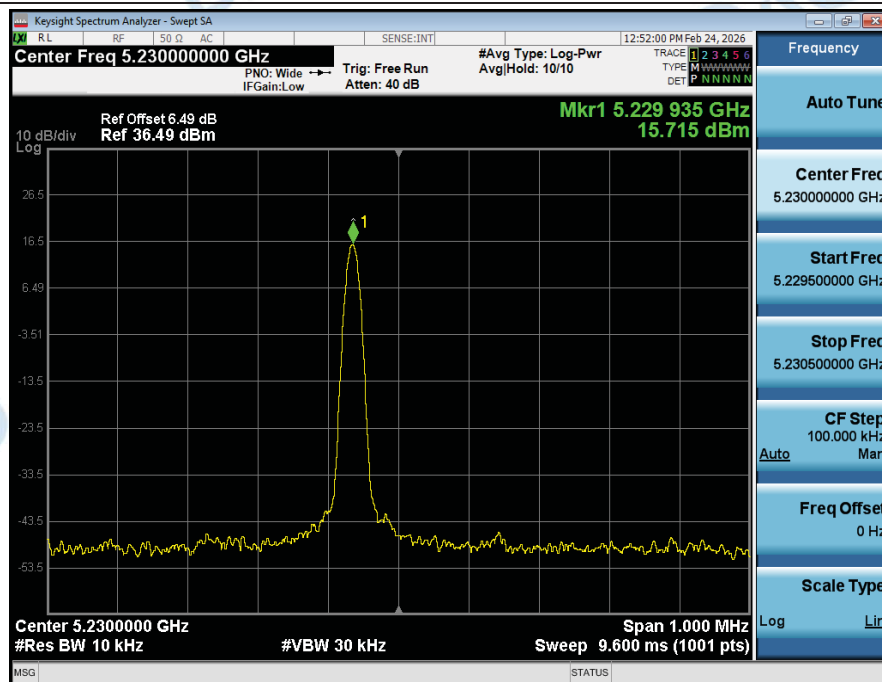
Frequency_Tolerance_NTHV_ANT1_802_11ac(VHT40)_5190_40M



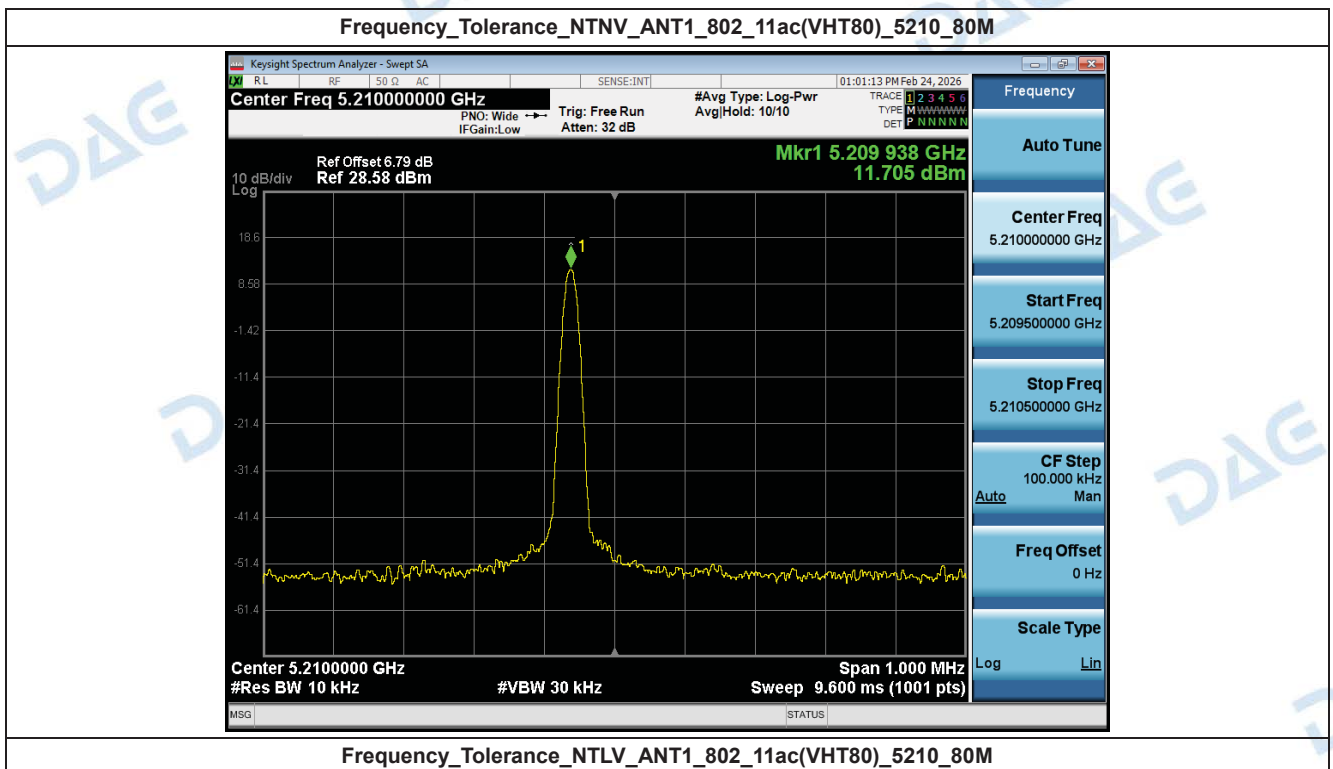
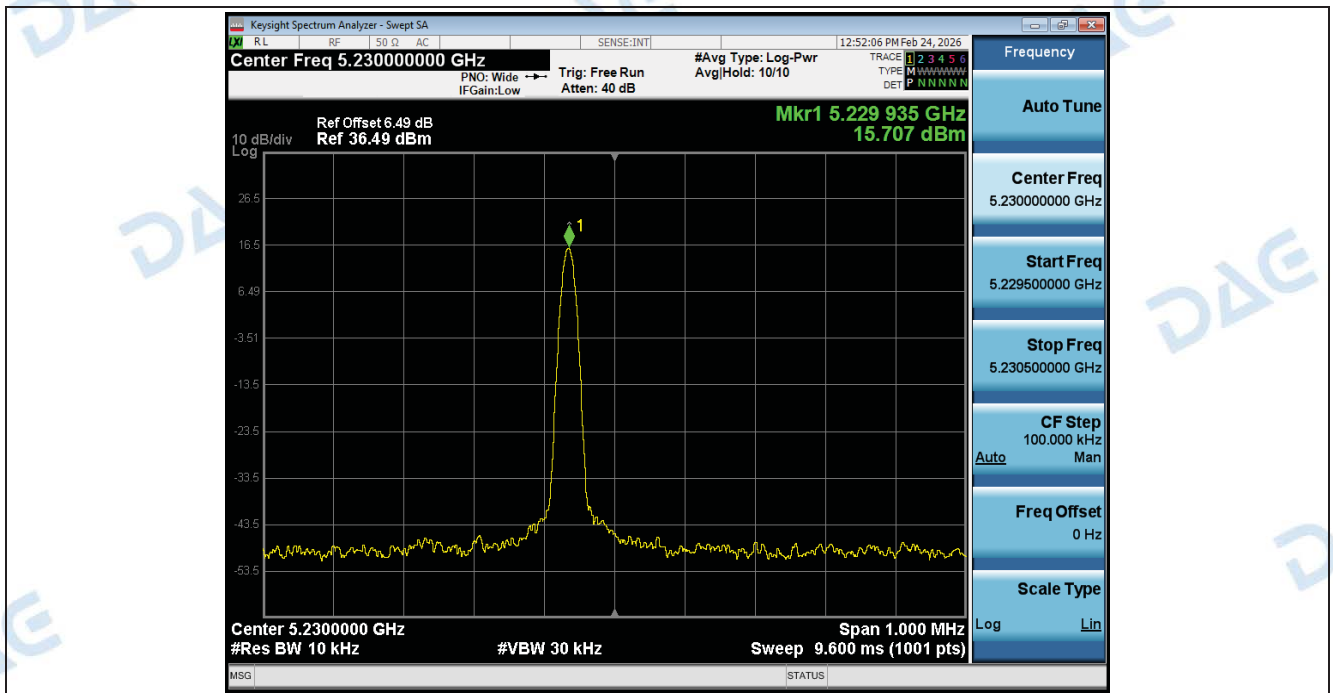
Frequency_Tolerance_NTNV_ANT1_802_11ac(VHT40)_5230_40M

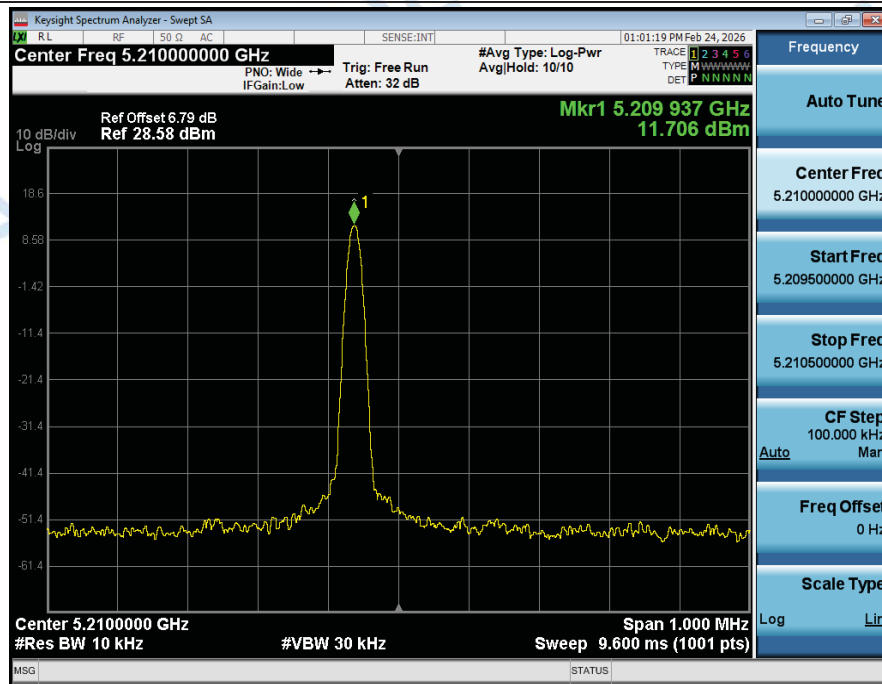


Frequency_Tolerance_NTLV_ANT1_802_11ac(VHT40)_5230_40M

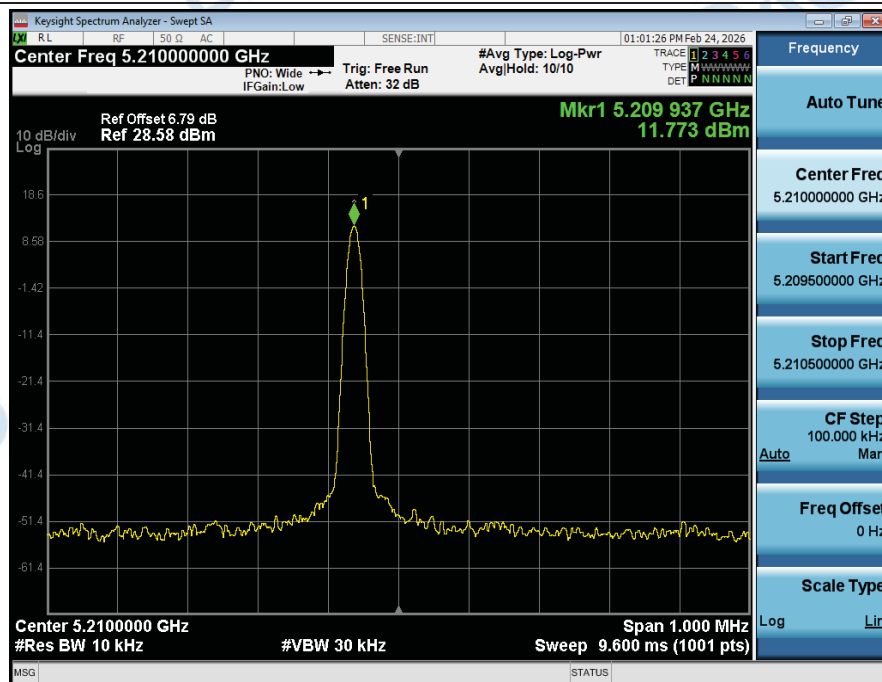


Frequency_Tolerance_NTHV_ANT1_802_11ac(VHT40)_5230_40M





Frequency_Tolerance_NTHV_ANT1_802_11ac(VHT80)_5210_80M

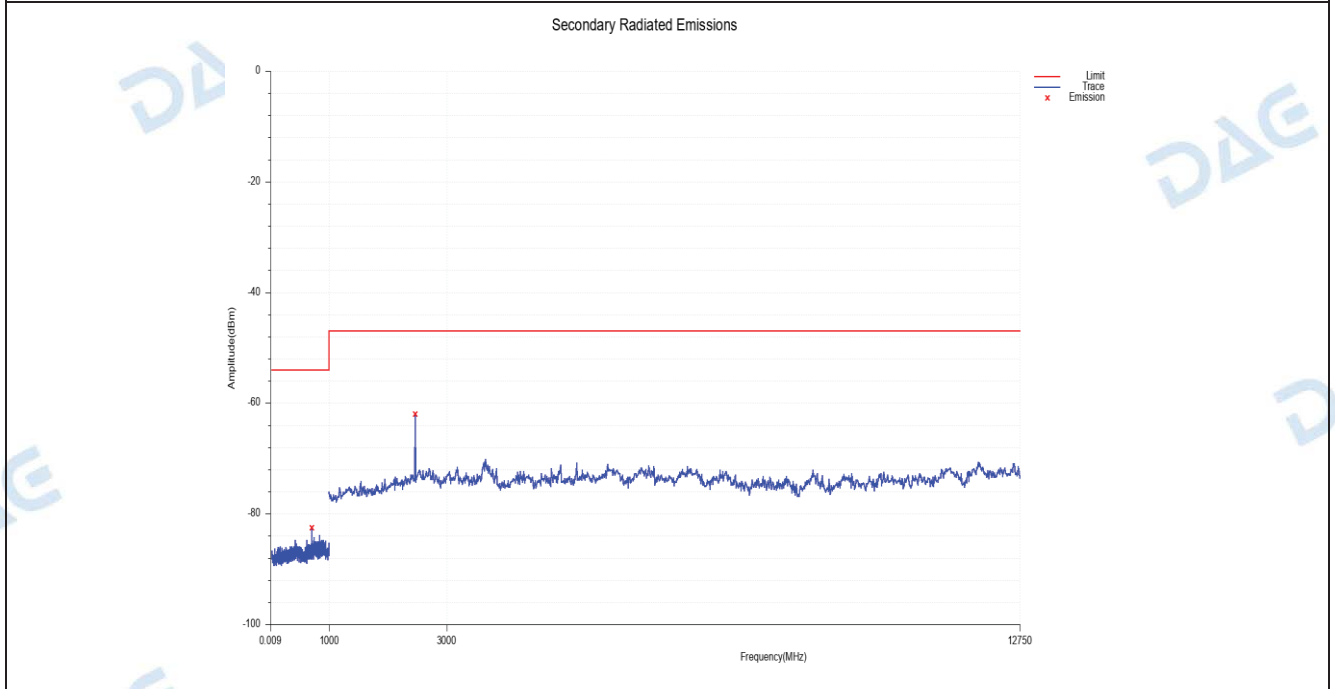


8. Secondary emission of radio wave

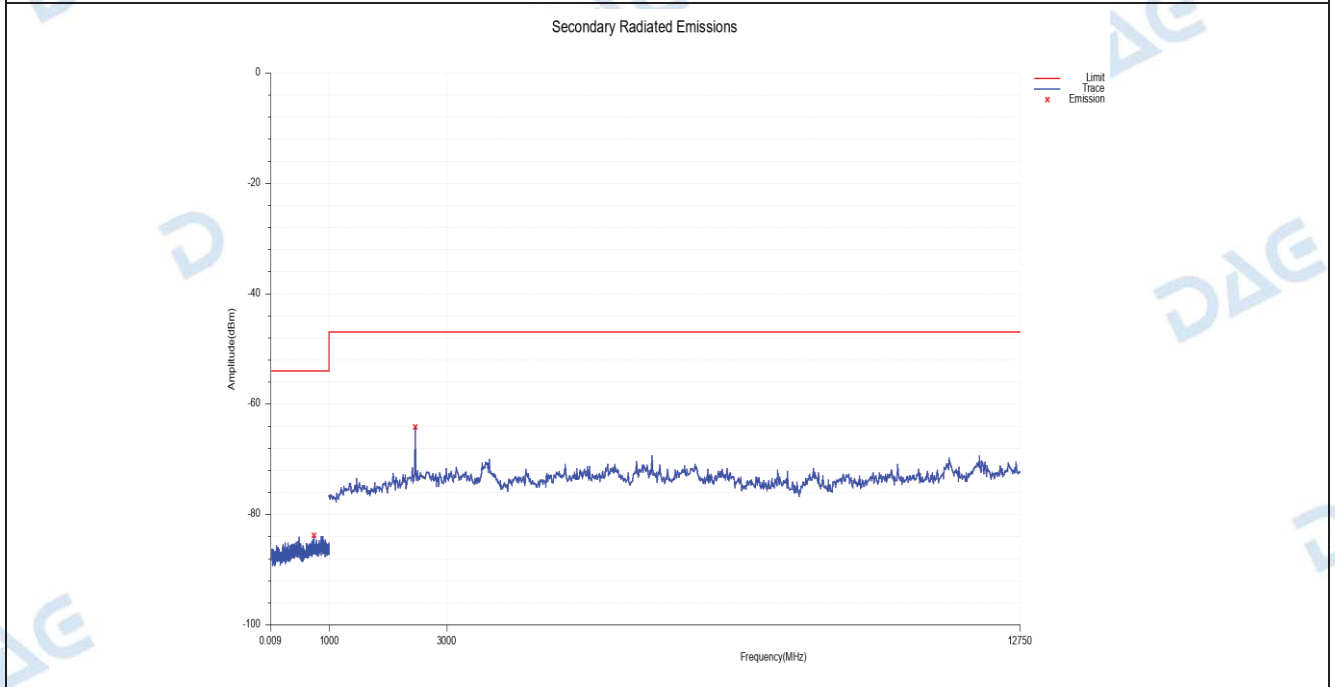
Condition	ANT	Mode	Channel	Range(MHz)	RBW(kHz)	Spur. Freq.(MHz)	Spur. Lev.(dBm)	Spur. Lev	Limit	Over 1/10 Limit	Read Lev.(dBm)	Read Lev.	Result
NVNT	ANT 1	802.11a	LCH	30.0~1000.0	100	709.00	-82.50	0.0056nW	4nW	NO	/	/	Pass
NVNT	ANT 1	802.11a	LCH	1000.0~1300.0	1000	2464.00	-62.00	0.6314nW	20nW	NO	/	/	Pass
NVNT	ANT 1	802.11a	MCH	30.0~1000.0	100	741.01	-83.83	0.0041nW	4nW	NO	/	/	Pass
NVNT	ANT 1	802.11a	MCH	1000.0~1300.0	1000	2464.00	-64.18	0.3823nW	20nW	NO	/	/	Pass
NVNT	ANT 1	802.11a	HCH	30.0~1000.0	100	856.44	-83.19	0.0047nW	4nW	NO	/	/	Pass
NVNT	ANT 1	802.11a	HCH	1000.0~1300.0	1000	2452.00	-63.61	0.4355nW	20nW	NO	/	/	Pass
NVNT	ANT 1	802.11n(HT20)	LCH	30.0~1000.0	100	344.28	-84.42	0.0036nW	4nW	NO	/	/	Pass
NVNT	ANT 1	802.11n(HT20)	LCH	1000.0~1300.0	1000	3640.00	-70.21	0.0952nW	20nW	NO	/	/	Pass
NVNT	ANT 1	802.11n(HT20)	MCH	30.0~1000.0	100	815.70	-83.47	0.0044nW	4nW	NO	/	/	Pass
NVNT	ANT 1	802.11n(HT20)	MCH	1000.0~1300.0	1000	1768.00	-57.95	1.6014nW	20nW	NO	/	/	Pass
NVNT	ANT 1	802.11n(HT20)	HCH	30.0~1000.0	100	690.57	-83.93	0.0040nW	4nW	NO	/	/	Pass
NVNT	ANT 1	802.11n(HT20)	HCH	1000.0~1300.0	1000	2464.00	-67.37	0.1833nW	20nW	NO	/	/	Pass
NVNT	ANT 1	802.11ac(VHT20)	LCH	30.0~1000.0	100	976.72	-84.09	0.0039nW	4nW	NO	/	/	Pass
NVNT	ANT 1	802.11ac(VHT20)	LCH	1000.0~1300.0	1000	2464.00	-64.63	0.3444nW	20nW	NO	/	/	Pass
NVNT	ANT 1	802.11ac(VHT20)	MCH	30.0~1000.0	100	982.54	-84.26	0.0037nW	4nW	NO	/	/	Pass
NVNT	ANT 1	802.11ac(VHT20)	MCH	1000.0~1300.0	1000	12028.00	-69.71	0.1069nW	20nW	NO	/	/	Pass
NVNT	ANT 1	802.11ac(VHT20)	HCH	30.0~1000.0	100	835.10	-84.40	0.0036nW	4nW	NO	/	/	Pass
NVNT	ANT 1	802.11ac(VHT20)	HCH	1000.0~1300.0	1000	12016.00	-70.45	0.0900nW	20nW	NO	/	/	Pass
NVNT	ANT 1	802.11n(HT40)	LCH	30.0~1000.0	100	844.80	-84.39	0.0036nW	4nW	NO	/	/	Pass
NVNT	ANT 1	802.11n(HT40)	LCH	1000.0~1300.0	1000	12052.00	-69.63	0.1087nW	20nW	NO	/	/	Pass
NVNT	ANT 1	802.11n(HT40)	HCH	30.0~1000.0	100	881.66	-84.53	0.0035nW	4nW	NO	/	/	Pass
NVNT	ANT 1	802.11n(HT40)	HCH	1000.0~1300.0	1000	2464.00	-61.68	0.6784nW	20nW	NO	/	/	Pass
NVNT	ANT 1	802.11ac(VHT40)	LCH	30.0~1000.0	100	718.70	-83.58	0.0043nW	4nW	NO	/	/	Pass
NVNT	ANT 1	802.11ac(VHT40)	LCH	1000.0~1300.0	1000	2404.00	-69.02	0.1253nW	20nW	NO	/	/	Pass
NVNT	ANT 1	802.11ac(VHT40)	HCH	30.0~1000.0	100	478.14	-84.75	0.0033nW	4nW	NO	/	/	Pass
NVNT	ANT 1	802.11ac(VHT40)	HCH	1000.0~1300.0	1000	2428.00	-69.55	0.1109nW	20nW	NO	/	/	Pass
NVNT	ANT 1	802.11ac(VHT80)	MCH	30.0~1000.0	100	678.93	-84.51	0.0035nW	4nW	NO	/	/	Pass

NVNT	ANT 1	802.11ac(VHT 80)	MCH	1000.0~1300 0.0	1000	12028.00	-69.93	0.1016n W	20n W	NO	/	/	Pass
------	-------	------------------	-----	-----------------	------	----------	--------	-----------	-------	----	---	---	------

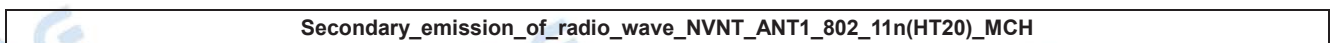
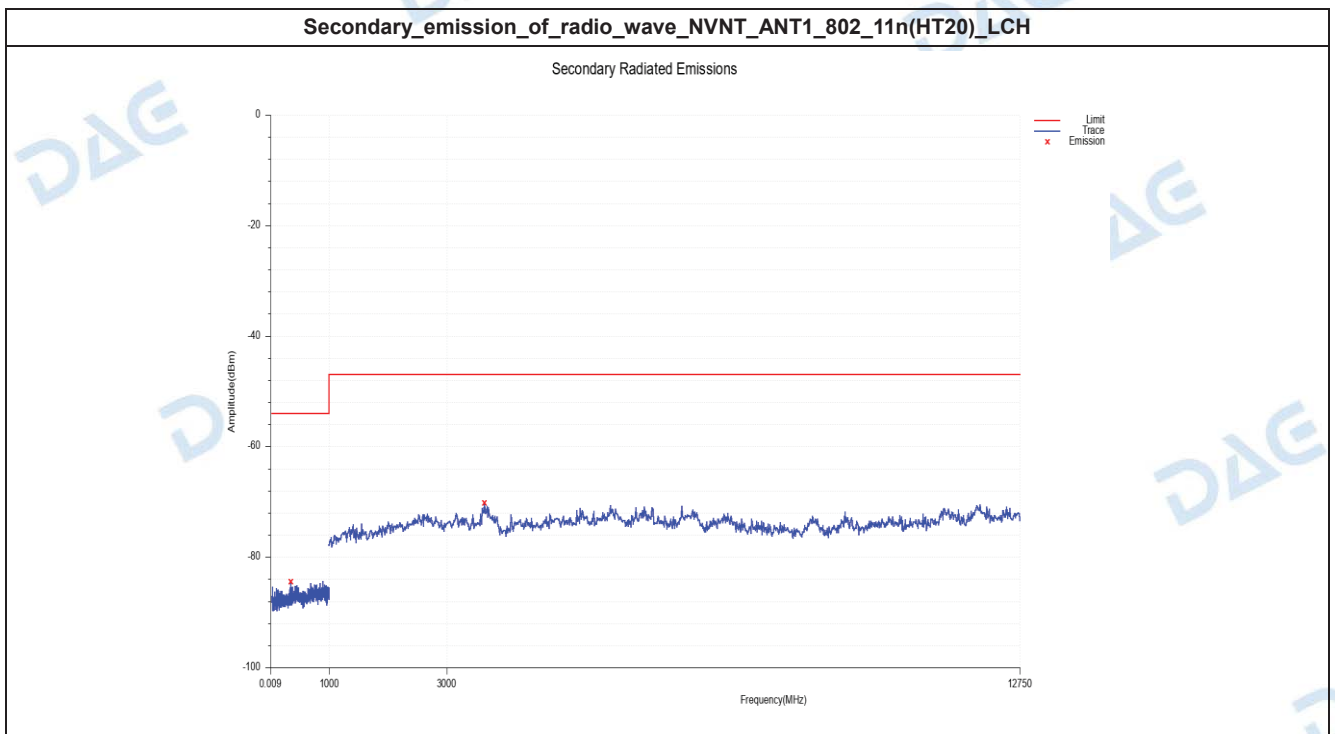
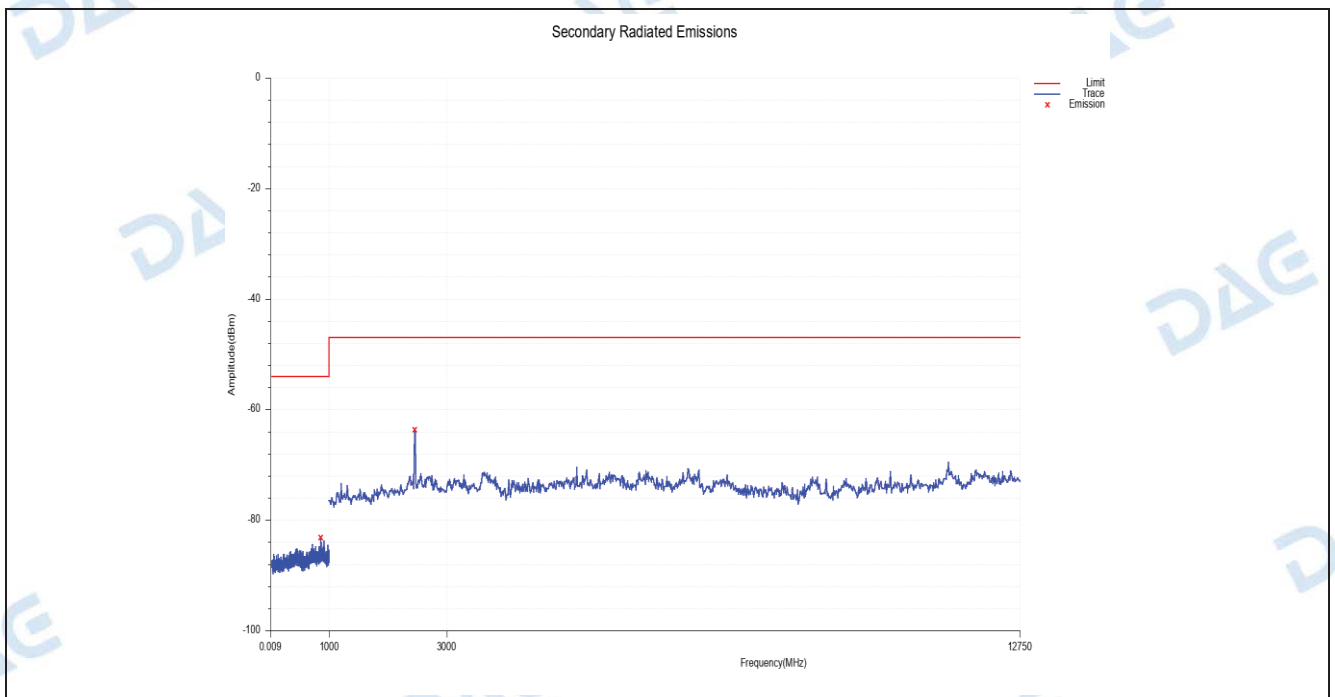
Secondary_emission_of_radio_wave_NVNT_ANT1_802_11a_LCH

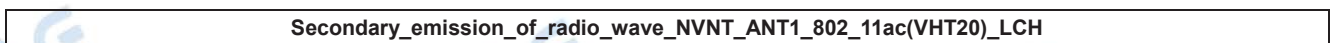
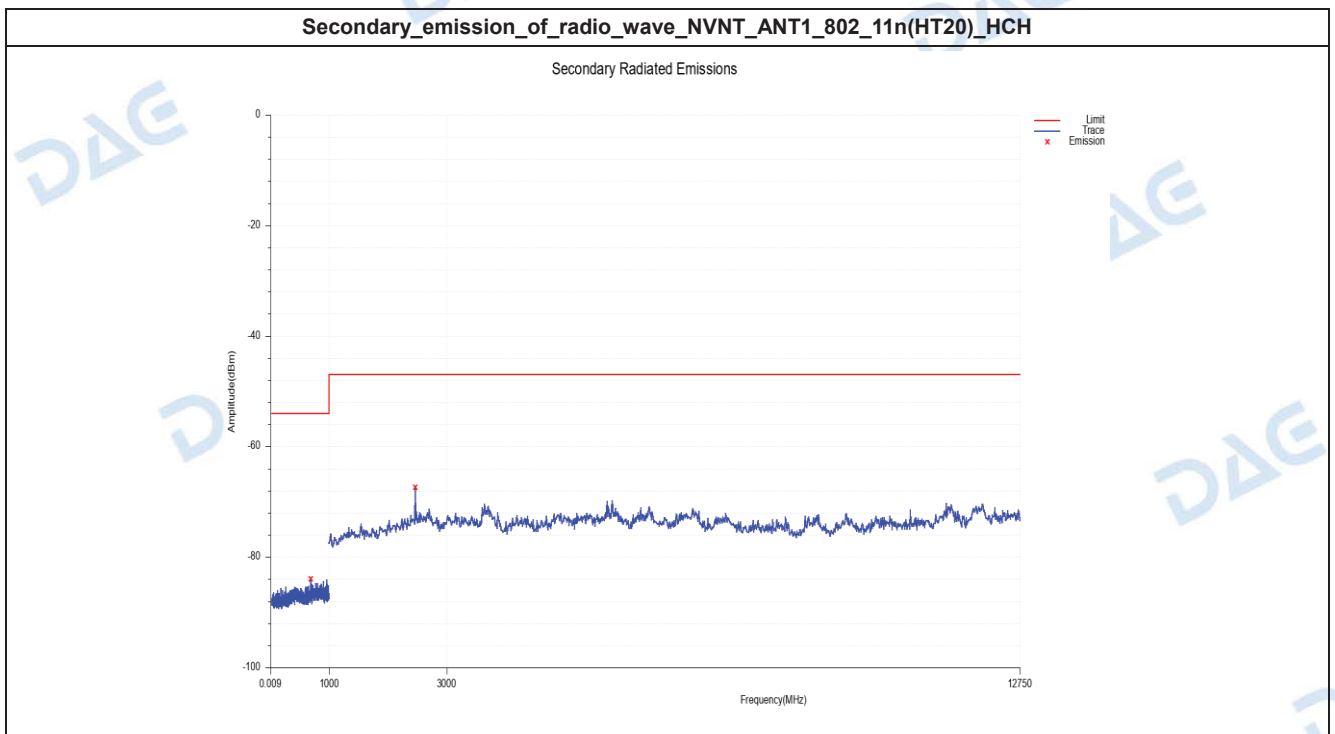
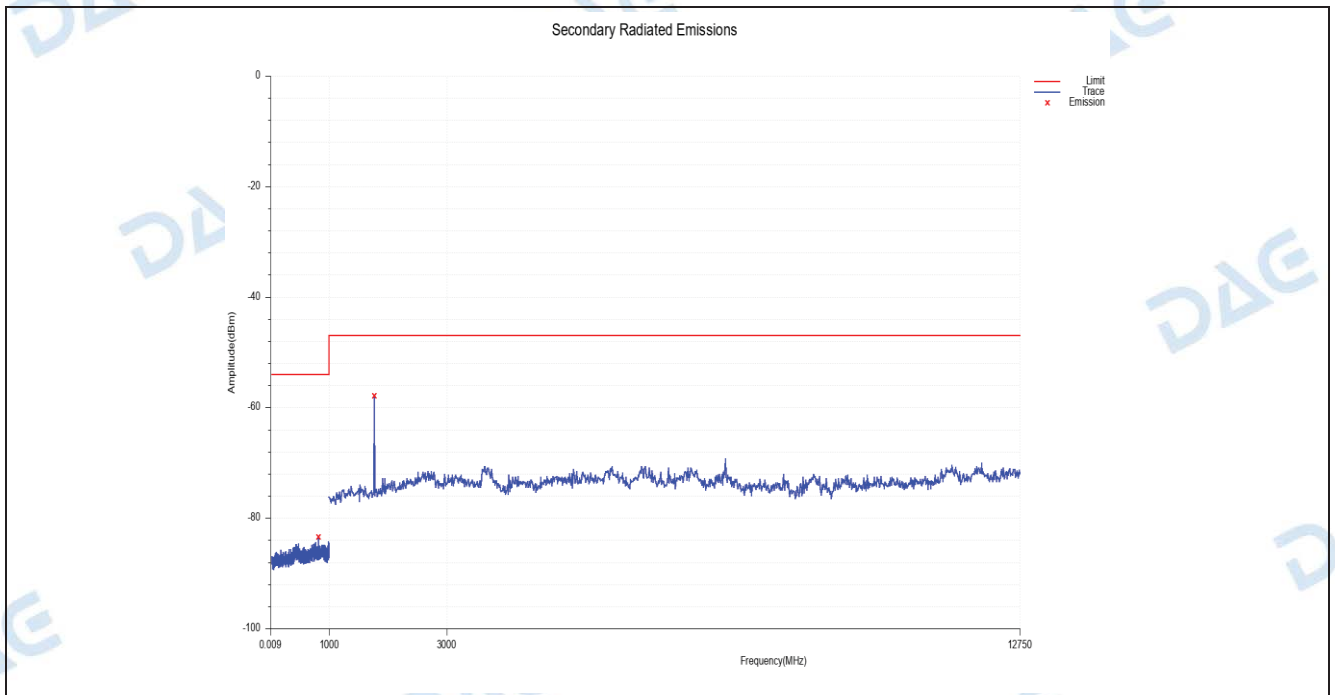


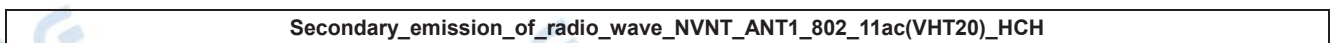
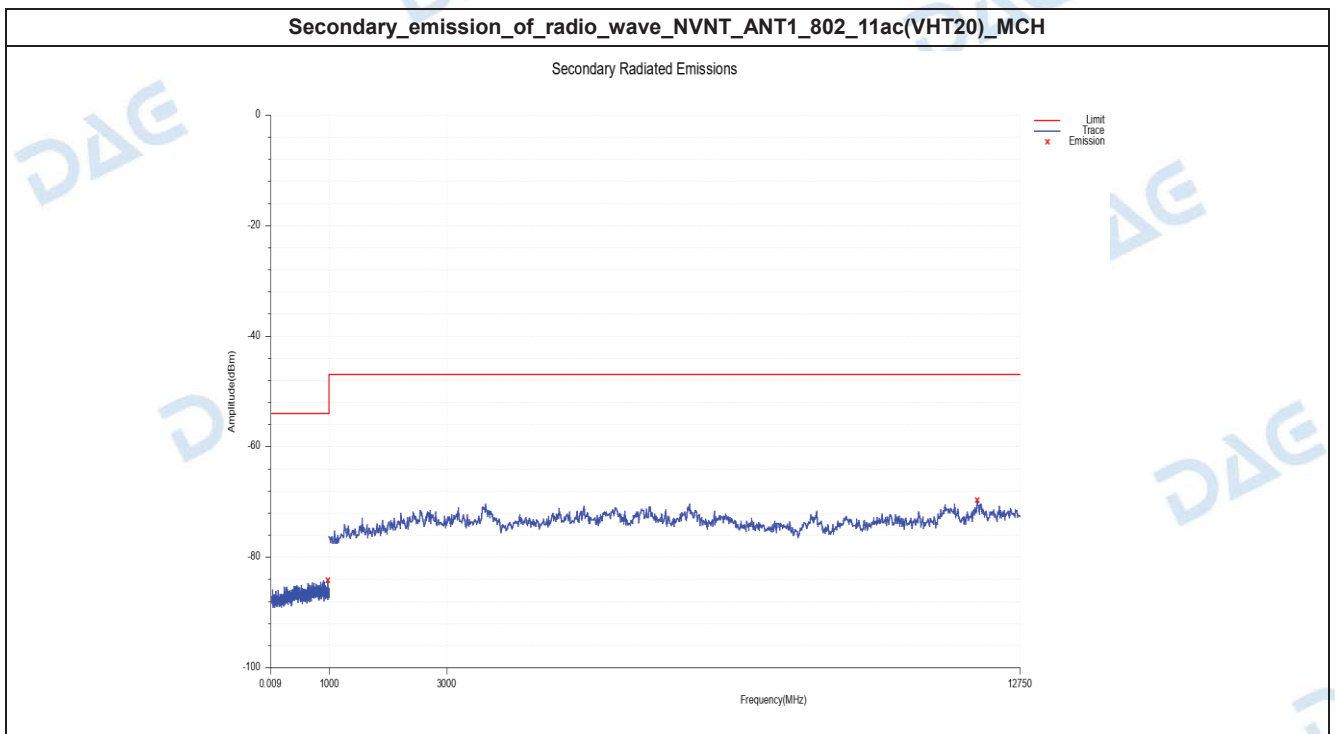
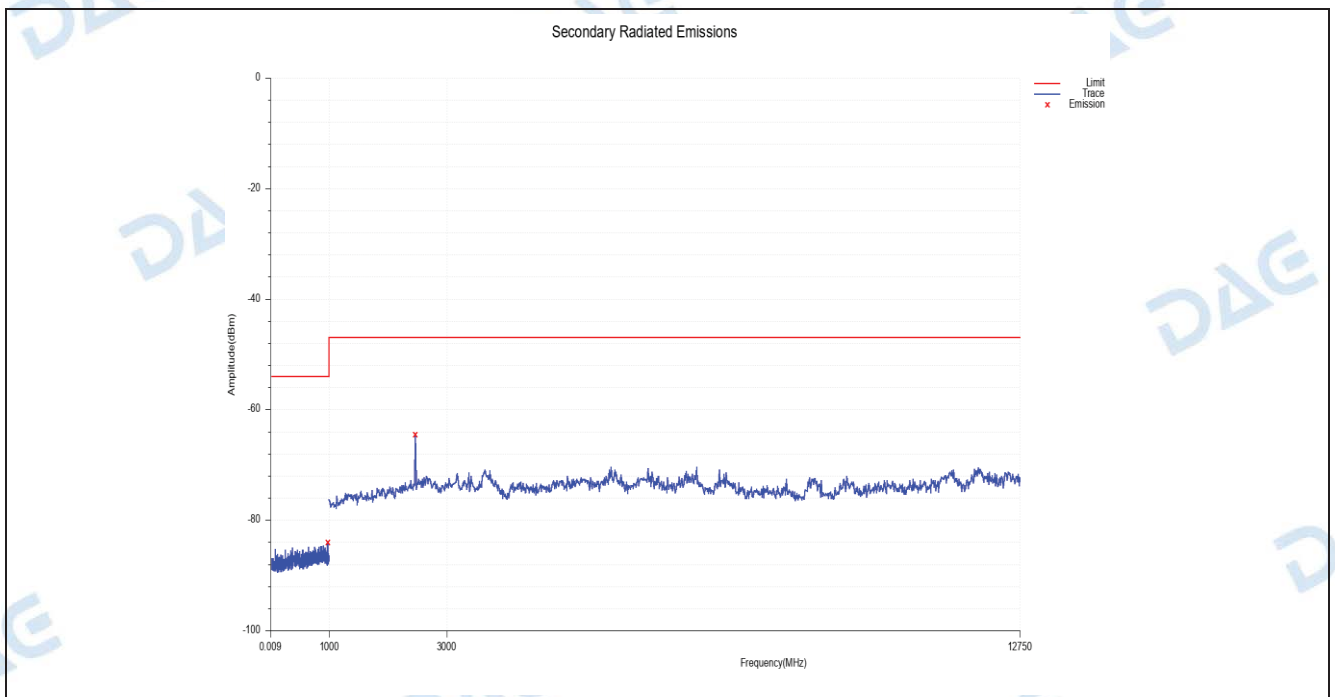
Secondary_emission_of_radio_wave_NVNT_ANT1_802_11a_MCH

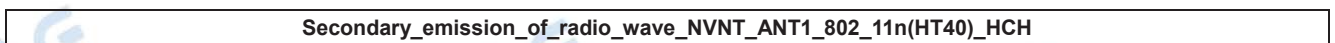
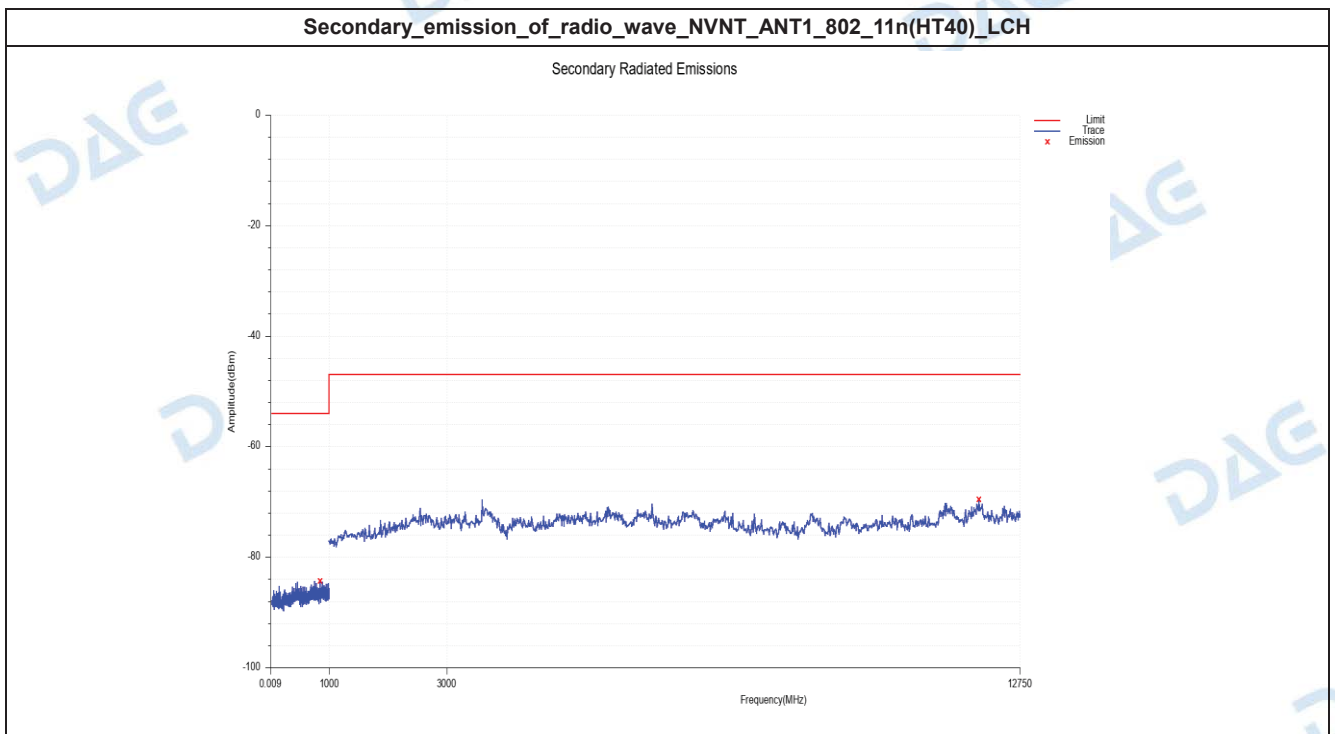
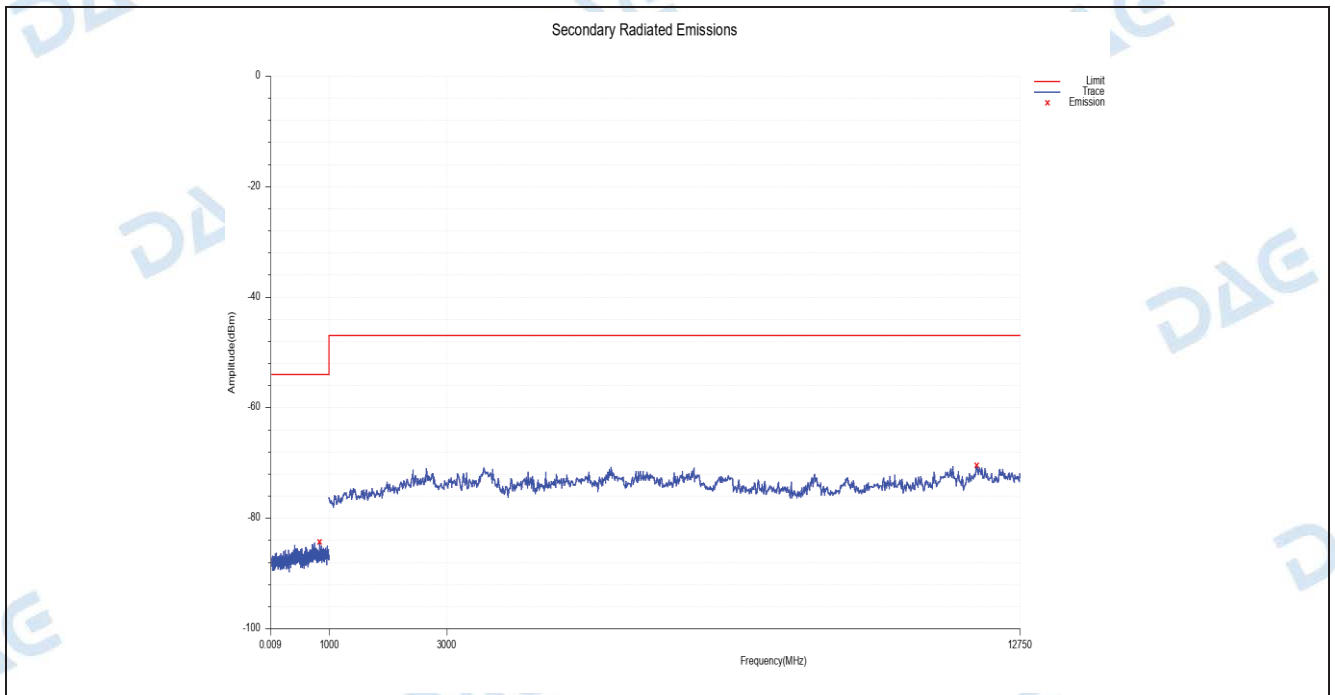


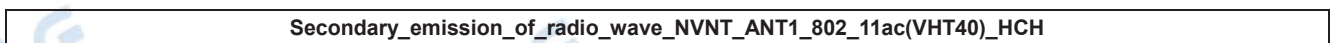
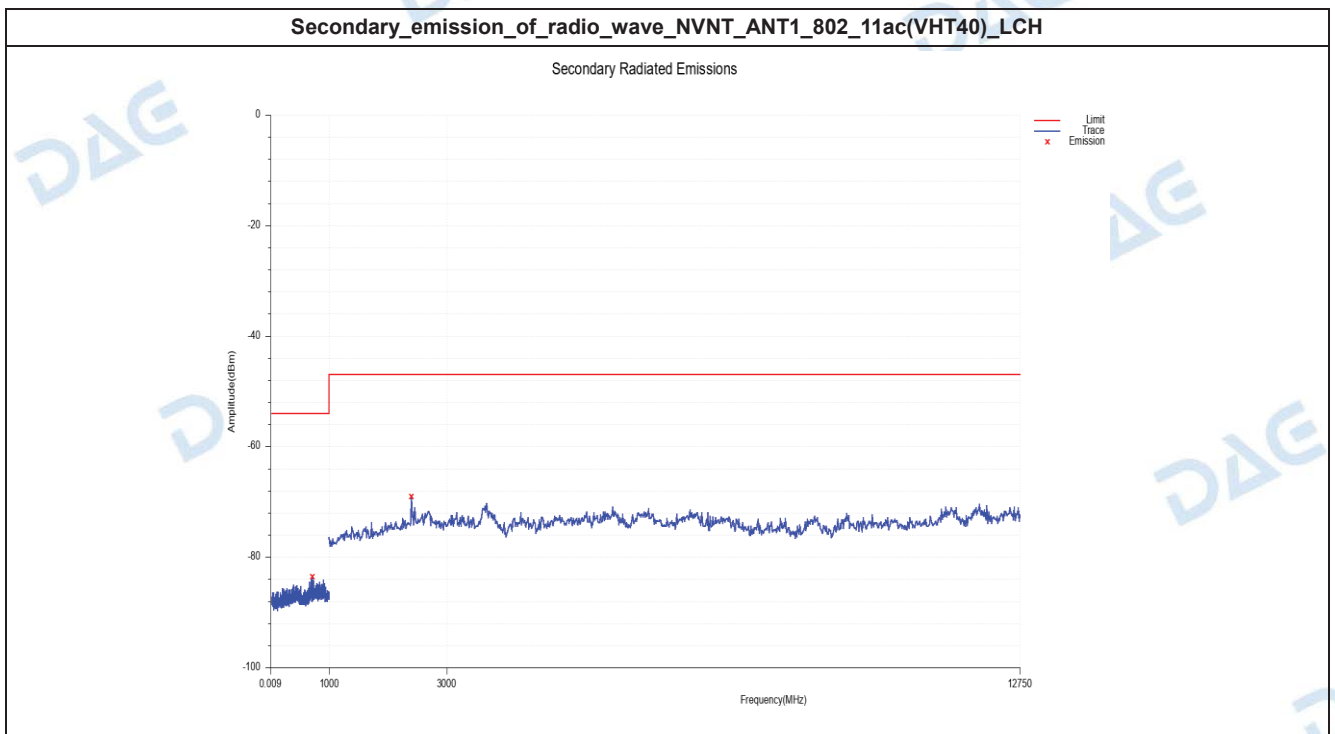
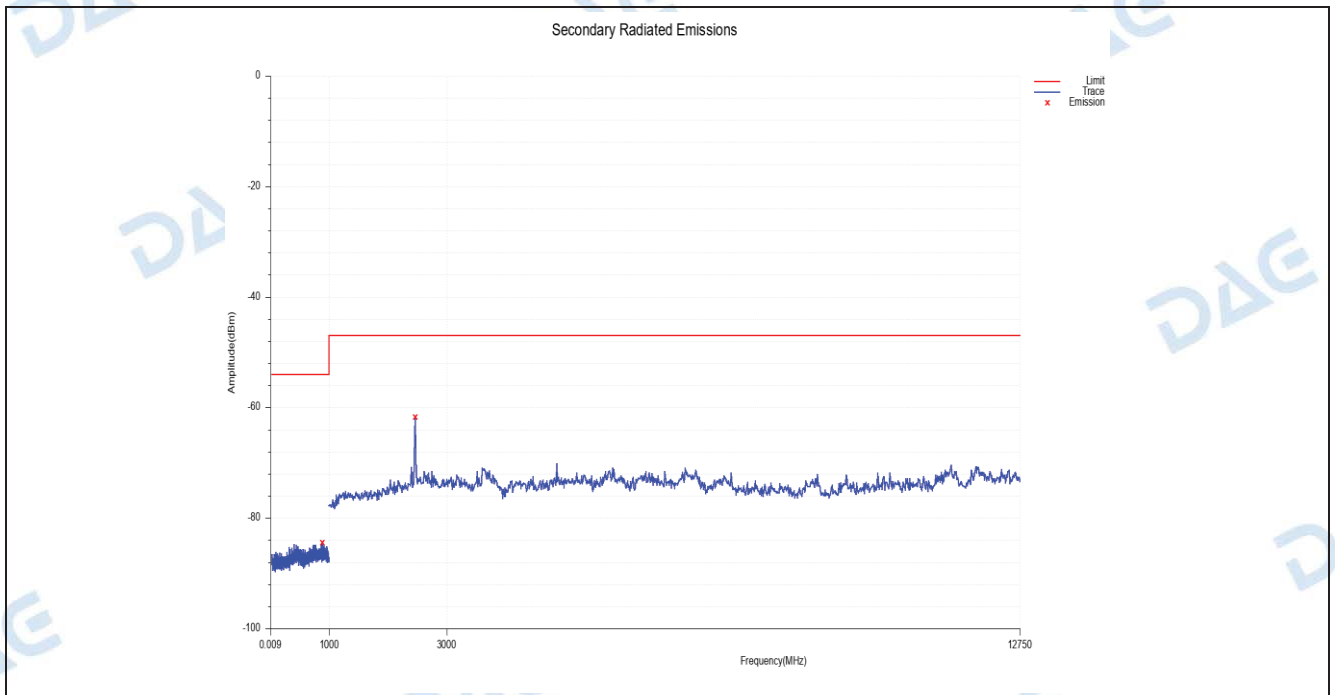
Secondary_emission_of_radio_wave_NVNT_ANT1_802_11a_HCH

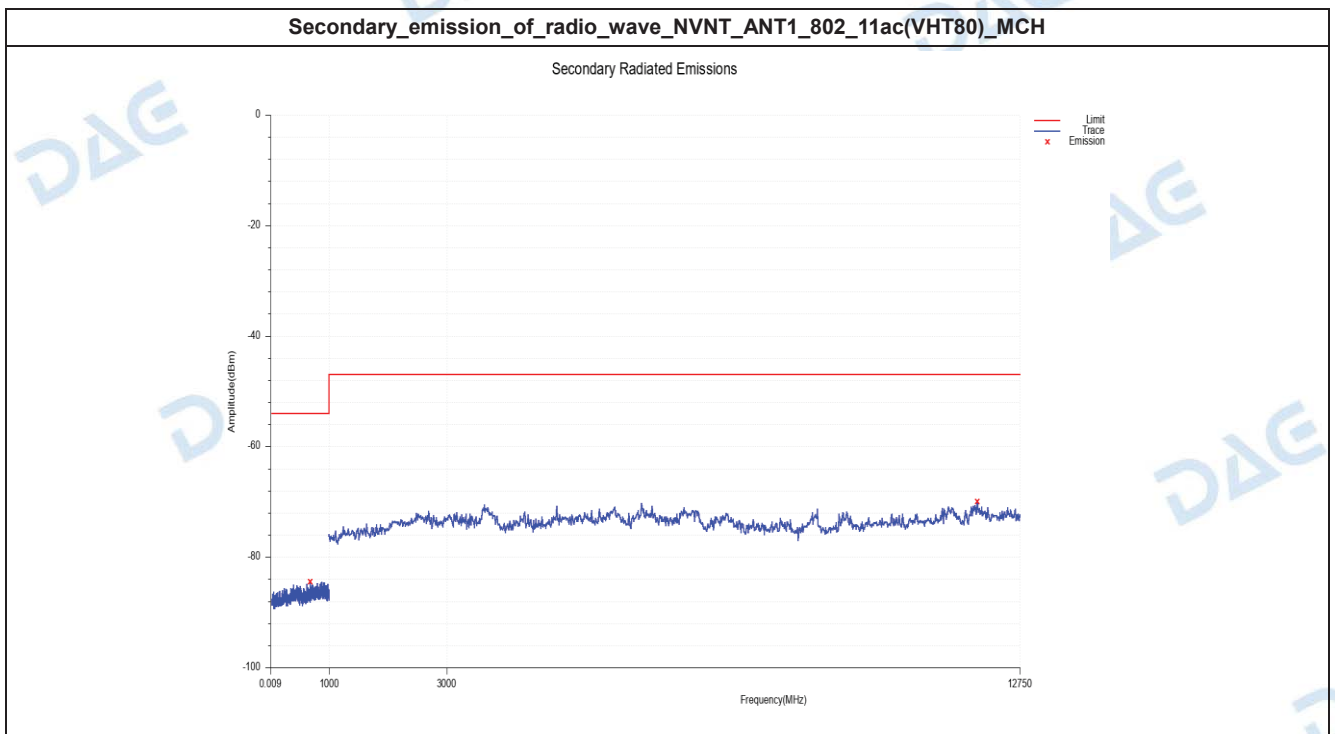
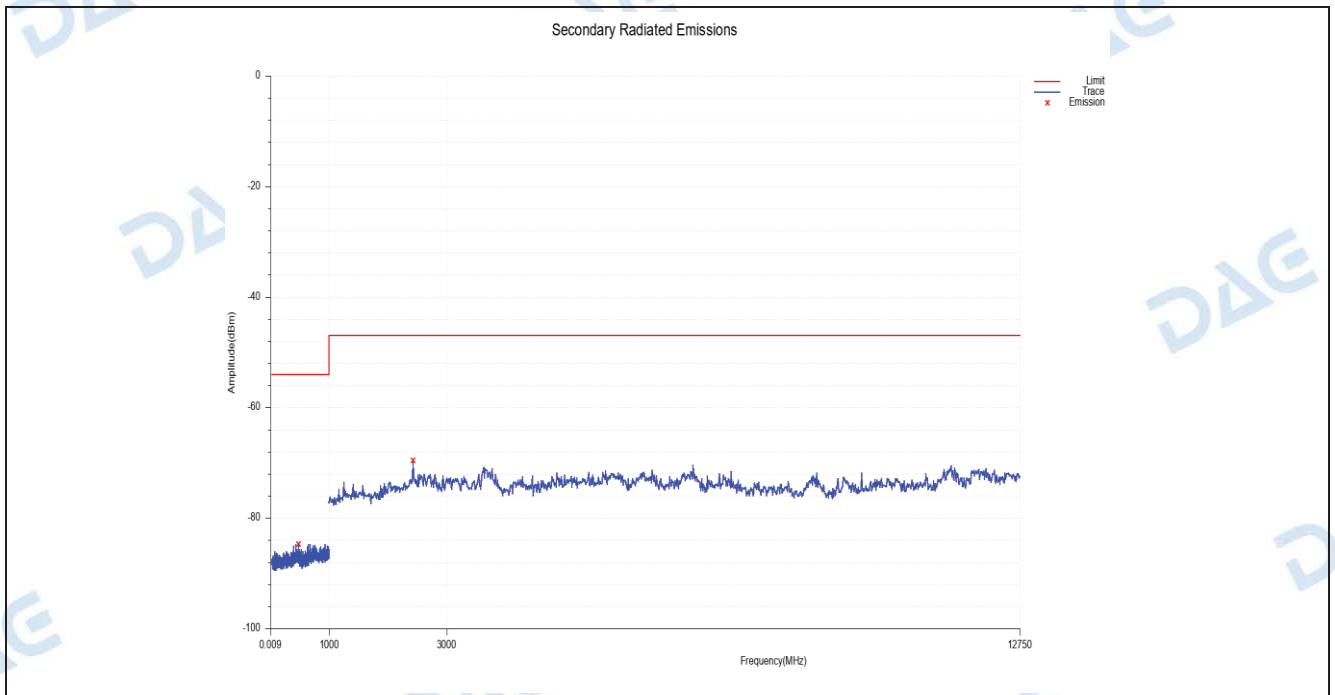












***** End of Report *****