



FCC LISTED, REGISTRATION
NUMBER: 2764.01

ISED LISTED REGISTRATION
NUMBER: 23595-1

Test Report No:

3809ERM.003A2

Test report

USA FCC Part 15.407 (U-NII), 15.209; & CANADA RSS-247, RSS-Gen
Unlicensed National Information Infrastructure Devices. General technical requirements.
Licence-Exempt Radio Apparatus (All Frequency Bands): Category I Equipment.
General Requirements and Information for the Certification of Radio Apparatus.

(*) Identification of item tested	Telematics Control Unit
(*) Trademark	Zoox L5 TCU
(*) Model and /or type reference	L5 TCU
Other identification of the product	FCC ID: 2AHPN-BE2873 HW version: C3 SW version: S7.8
(*) Features	UMTS, LTE, 4G, WiFi (802.11 b, g, n, ac, ax)
Manufacturer	Harman International 30001 Cabot Drive. Novi, MI 48377, USA
Test method requested, standard	USA FCC Part 15.407 (07-02-21 Edition): Unlicensed National Information Infrastructure Devices. General technical requirements. USA FCC Part 15.209 (10-1-20 Edition): Radiated emission limits; general requirements. CANADA RSS-247 Issue 3 (August 2023). CANADA RSS-Gen Issue 5 (April 2018). 789033 D02 General UNII Test Procedures New Rules v02r01 Guidance for Compliance Testing of Unlicensed National Information Infrastructure (U-NII) Devices ANSI C63.10-2013: American National Standard for Testing Unlicensed Wireless Devices.
Summary	IN COMPLIANCE
Approved by (name / position & signature)	Domingo Galvez EMC&RF Lab Manager
Date of issue	02-29-2024
Report template No	FDT08_23 (*) "Data provided by the client"

INDEX	2
ACRONYMS	3
COMPETENCES AND GUARANTEES	3
GENERAL CONDITIONS	3
UNCERTAINTY	4
DATA PROVIDED BY THE CLIENT	4
USAGE OF SAMPLES	5
TEST SAMPLE DESCRIPTION	6
IDENTIFICATION OF THE CLIENT	7
TESTING PERIOD AND PLACE	7
DOCUMENT HISTORY	8
ENVIRONMENTAL CONDITIONS	8
REMARKS AND COMMENTS	8
TESTING VERDICTS	9
SUMMARY	9
LIST OF EQUIPMENT USED DURING THE TEST	11
APPENDIX A: TESTS RESULTS	12

Acronyms

Acronym ID	Acronym Description
Avg Power	Maximum Average Conducted Output Power
DC	Duty Cycle
Ebw	Emission Bandwidth
Freq	Frequency
Inband Peak Lvl	Inband Peak Level
Lvl	Level
MP	Measurement Point
Max EIRP	Maximum Burst EIRP
Mod	Modulation
Mode	MIMO Mode
Occ Ch BW	Occupied Channel Bandwidth
Operation Band	Operation Band
PSD	Power Spectrum Density
Port	Active Port
TPC	TPC

Competences and guarantees

DEKRA Certification Inc. is a testing laboratory accredited by A2LA (The American Association for Laboratory Accreditation), to perform the tests indicated in the Certificate 2764.01

DEKRA Certification Inc. is a testing laboratory competent to carry out the tests described in this report.

In order to assure the traceability to other national and international laboratories, DEKRA Certification Inc. has a calibration and maintenance program for its measurement equipment.

DEKRA Certification Inc. guarantees the reliability of the data presented in this report, which is the result of the measurements and the tests performed to the item under test on the date and under the conditions stated on the report and, it is based on the knowledge and technical facilities available at DEKRA Certification at the time of performance of the test.

DEKRA Certification Inc. is liable to the client for the maintenance of the confidentiality of all information related to the item under test and the results of the test.

The results presented in this Test Report apply only to the particular item under test established in this document.

IMPORTANT: No parts of this report may be reproduced or quoted out of context, in any form or by any means, except in full, without the previous written permission of DEKRA Certification Inc.

General conditions

1. This report is only referred to the item that has undergone the test.
2. This report does not constitute or imply on its own an approval of the product by the Certification Bodies or competent Authorities.
3. This document is only valid if complete; no partial reproduction can be made without previous written permission of DEKRA Certification Inc.
4. This test report cannot be used partially or in full for publicity and/or promotional purposes without previous written permission of DEKRA Certification Inc. and the Accreditation Bodies.

Uncertainty

Uncertainty (factor k=2) was calculated according to the DEKRA Certification internal document PODT000.

Test case	Frequency (MHz)	U (k=2)	Units
RF Power and PSD	5150-5850	0.88	dB
Occupied Bandwidth		1.87	%
Band Edge	30-7000	0.64	dB
Radiated Spurious Emission	30-180	4.27	dB
	180-1000	3.14	dB
	1000-18000	3.30	dB
	18000-40000	3.49	dB

Data provided by the client

The following data has been provided by the client:

1. Information relating to the description of the sample ("Identification of the item tested", "Trademark", "Model and/or type reference tested").
2. The sample consists of a Telematics control unit developed by Harman for Zoox. Enables connectivity to the Zoox robotaxi.

DEKRA declines any responsibility with respect to the information provided by the client and that may affect the validity of results.

Usage of samples

Samples used for test have been selected by: The client.

Sample S/01 is composed of the following elements, accessories and auxiliary equipment:

Id	Control Number	Description	Manufacturer/ Model	Serial N°	Date of Reception	Application
S/01	3809/56	Telematics Control Unit	-	23219-00019	8/17/2023	Element Under Test
S/01	3809/1	Mohawk Module Antenna 1	-	S23013-00009	6/2/2023	Element Under Test
S/01	3809/3	BTWLAN Antenna 1	-	21104-00032	6/2/2023	Element Under Test
S/01	3809/4	BTWLAN Antenna 2	-	21104-00034	6/2/2023	Element Under Test
S/01	3809/12	ZOOX 20WAY Main Test Harness 4	-	-	6/2/2023	Accessory
S/01	3809/18	WLAN DUAL FAKRA TEST HARNESS 4	-	-	6/2/2023	Element Under Test
S/01	3809/33	1pcs MATEnet 9-2302454-9 to H-MTD Ethernet Cable H	-	-	8/7/2023	Accessory
S/01	3809/37	RJ45 Ethernet cable	5E	-	8/7/2023	Accessory
S/01	3809/49	BR to ETH converter	-	-	8/11/2023	Accessory
S/01	3809/55	USB Type A (male) to USB Mini (male) cable 1M	-	-	8/11/2023	Accessory
S/02	1484	Laptop	LENOVO / V14 G2 ITL	PF3Q2NKL	-	Auxiliary Element

Notes referenced to samples during the project:

Id	Type	Note
S/01	Radiated	All Radiated test(s) indicated in appendix A

Sample S/02 is composed of the following elements and accessories:

Id	Control Number	Description	Manufacturer/ Model	Serial N°	Date of Reception	Application
S/02	3809/57	Telematics Control Unit	-	23221-00073	8/17/2023	Element Under Test
S/02	3809/10	ZOOX 20WAY Main Test Harness 2	-	S23013-00009	6/2/2023	Accessory
S/02	3809/19	WLAN DUAL FAKRA TEST HARNESS 5	-	21104-00032	6/2/2023	Accessory
S/02	3809/28	USB Type A (male) to USB Mini (male) cable 1M	-	21104-00034	8/7/2023	Accessory
S/02	3809/32	1pcs MATEnet 9-2302454-9 to H-MTD Ethernet Cable H	-	-	8/7/2023	Accessory
S/02	3809/36	RJ45 Ethernet cable	5E	-	8/7/2023	Accessory
S/02	3809/42	Laptop	T470	PF126CFQ	8/8/2023	Accessory
S/02	3809/44	BR to ETH converter	5E	-	8/11/2023	Accessory

Notes referenced to samples during the project:

Id	Type	Note
S/02	Conducted	All Conducted test(s) indicated in appendix A

Test sample description

Test Sample description (compulsory information for EMC and RF testing services)

Ports..... :	Port name and description	Cable					
		Specified max length [m]	Attached during test	Shielded	Coupled to patient ⁽³⁾		
	Dual FAKRA Coax connector, White	<5m	[X]	[X]	[]		
	Dual FAKRA Coax connector, Purple	<5m	[X]	[X]	[]		
	Nano MQS 20pol Main connector	<5m	[X]	[X]	[]		
	Ethernet connector, Turquoise	<5m	[X]	[X]	[]		
			[]	[]	[]		
.....		[]	[]	[]			
Supplementary information to the ports..... :							
Rated power supply	Voltage and Frequency		Reference poles				
			L1	L2	L3	N	PE
	[]	AC:	[]	[]	[]	[]	[]
	[]	AC:	[]	[]	[]	[]	[]
	[X]	DC: 12V nominal Car Battery, 6V to 16V max					
[]	DC:						
Rated Power	12V DC, 1A max						
Clock frequencies.....	32,768 Hz, 12.288 MHz, 25 MHz, 26 MHz						
Other parameters							
Software version	S7.8						
Hardware version	C3						
Dimensions in cm (W x H x D)	Approximate dimensions -- 203x135x23. See mechanical drawing for details.						
Mounting position	[]	Table top equipment					
	[]	Wall/Ceiling mounted equipment					
	[]	Floor standing equipment					
	[]	Hand-held equipment					
	[X]	Other: Automotive Telematics control Unit					
Modules/parts.....	Module/parts of test item		Type	Manufacturer			
							
							
							
							

Accessories (not part of the test item)	Description	Type	Manufacturer
	Cable Harness		
	Antenna		
			
			
			
			
Documents as provided by the applicant	Description	File name	Issue date
	Technical description		
			
			
			

Copy of marking plate:



Identification of the client

Harman International
30001 Cabot Drive. Novi, MI 48377, USA

Testing period and place

Test Location	DEKRA Certification Inc.
Date (start)	08-31-2023
Date (finish)	10-30-2023

Document history

Report number	Date	Description
3809ERM.003	11-22-2023	First release.
3809ERM.003A1	01-23-2024	Second release. Antenna gain values were updated in Appendix A. This modified test report cancels and replaces the test report 3809ERM.003.
3809ERM.003A2	02-29-2024	Third release. Antenna gain and EIRP values were added in Maximum Average Conducted Output Power sections, test information was updated in Emissions compliance (Transmitter) – Radiated section of Appendix A. This modified test report cancels and replaces the test report 3809ERM.003A1.

Environmental conditions

In the control chamber, the following limits were not exceeded during the test:

Temperature	Min. = 15 °C Max. = 35 °C
Relative humidity	Min. = 30 % Max. = 75 %
Air pressure	Min. = 860mbar Max. = 1060mbar

In the semianechoic chamber, the following limits were not exceeded during the test.

Temperature	Min. = 15 °C Max. = 35 °C
Relative humidity	Min. = 30 % Max. = 75 %
Air pressure	Min. = 860mbar Max. = 1060mbar

In the chamber for conducted measurements, the following limits were not exceeded during the test:

Temperature	Min. = 15 °C Max. = 35 °C
Relative humidity	Min. = 30 % Max. = 75 %
Air pressure	Min. = 860mbar Max. = 1060mbar

Remarks and comments

The tests have been performed by the technical personnel: Juliana Cherry, Ivy Yousuf Moutushi, Qi Zhang, Yuqi Wang, Koji Nishimoto, and Victor Albrecht.

Testing verdicts

Fail	F
Inconclusive	I
Not applicable	N/A
Not measured	N/M
Pass	P

Summary

Annex A.1: SISO A - 802.11 a/n/ac/ax

Requirement – Test case	FCC PART 15 PARAGRAPH / RSS-247	Verdict	Remark
FCC 15.407 (a) / RSS-247 6.2	Power Limits. Maximum Output Power	Pass	N/A
FCC 15.407 (a) / RSS-247 6.2	Maximum Power Spectral Density	Pass	N/A
FCC 15.407 (e) / RSS 247 6.2.4.1	6 dB Emission Bandwidth	Pass	Refer 1
FCC 15.407 (b) / RSS-247 6.2	Band-edge Conducted Emissions	Pass	N/A
FCC 2.1049 / RSS-Gen 6.7	99% Occupied Bandwidth	Pass	N/A
FCC 15.403 / RSS-Gen 6.7	26 dB Emission Bandwidth	Pass	N/A
FCC 15.407 (b), 15.205 & 15.209 / RSS-Gen 8.9 & 8.10	Undesirable radiated emissions	Pass	N/A
Supplementary information and remarks: 1. Only applicable to sub-band U-NII-3: 5.725 - 5.85 GHz.			

Annex A.2: SISO B - 802.11 a/n/ac/ax

Requirement – Test case	FCC PART 15 PARAGRAPH / RSS-247	Verdict	Remark
FCC 15.407 (a) / RSS-247 6.2	Power Limits. Maximum Output Power	Pass	N/A
FCC 15.407 (a) / RSS-247 6.2	Maximum Power Spectral Density	Pass	N/A
FCC 15.407 (e) / RSS 247 6.2.4.1	6 dB Emission Bandwidth	Pass	Refer 2
FCC 15.407 (b) / RSS-247 6.2	Band-edge Conducted Emissions	Pass	N/A
FCC 2.1049 / RSS-Gen 6.7	99% Occupied Bandwidth	Pass	N/A
FCC 15.403 / RSS-Gen 6.7	26 dB Emission Bandwidth	Pass	N/A
FCC 15.407 (b), 15.205 & 15.209 / RSS-Gen 8.9 & 8.10	Undesirable radiated emissions	N/M	Refer 1
Supplementary information and remarks: - This test case was performed in worst case. - Only applicable to sub-band U-NII-3: 5.725 - 5.85 GHz.			

Annex A.3: MIMO - 802.11 a/n/ac/ax

Requirement – Test case	FCC PART 15 PARAGRAPH / RSS-247	Verdict	Remark
FCC 15.407 (a) / RSS-247 6.2	Power Limits. Maximum Output Power	Pass	N/A
FCC 15.407 (a) / RSS-247 6.2	Maximum Power Spectral Density	Pass	N/A
FCC 15.407 (e) / RSS 247 6.2.4.1	6 dB Emission Bandwidth	Pass	Refer 1
FCC 15.407 (b) / RSS-247 6.2	Band-edge Conducted Emissions	Pass	N/A
FCC 2.1049 / RSS-Gen 6.7	99% Occupied Bandwidth	Pass	N/A
FCC 15.403 / RSS-Gen 6.7	26 dB Emission Bandwidth	Pass	N/A
FCC 15.407 (b), 15.205 & 15.209 / RSS-Gen 8.9 & 8.10	Undesirable radiated emissions	Pass	N/A
Supplementary information and remarks: Only applicable to sub-band U-NII-3: 5.725 - 5.85 GHz.			

List of equipment used during the test

Conducted Measurements

Control Num	Equipment	Manufacturer	Serial	Model	Next calibration
897	Power supply	AMETEK	1707A01906	PROG-DC-PS	N/A
1039	FSV40 Signal Analyzer 40GHz	Rohde & Schwarz	101627	FSV40	2024-10-31
1107	Ethernet SNMP Thermometer	HW Group	60038026952	HWg-STE Plain	2024-10-17
1313	Wireless Measurement Software R&S WMS32	Rohde & Schwarz	---	---	---
1397	Signal Analyzer 85GHz	Rohde & Schwarz	101311	FSW85	2024-05-25

Radiated Measurements

Control Num	Equipment	Manufacturer	Serial	Model	Next calibration
878	AMETEK PROG DC Power supply	AMETEK	1707A01783	PROG-DC-PS	N/A
1012	ESR26 EMI Test Receiver	Rohde & Schwarz	101478	ESR26	2024-04-12
1014	FSV40 Signal Analyzer 40GHz	Rohde & Schwarz	101626	FSV40	2024-08-01
1055	3116C Double-Ridged Waveguide Horn Antenna 18-40 GHz	ETS Lindgren	213179	3116C	2026-02-06
1057	3115 Double-Ridged Waveguide Horn Antenna 1-18 GHz	ETS Lindgren	211373	3115	2026-07-18
1064	3142E Biconilog Antenna	ETS Lindgren	208600	3142E	2024-12-13
1108	Ethernet SNMP Thermometer- CR Room	HW Group	60038026954	HWg-STE Plain	2024-10-18
1111	Ethernet SNMP Thermometer- SAC	HW Group	60038026577	HWg-STE Plain	2024-10-18
1179	Semi anechoic Absorber Lined Chamber	Frankonia	F169021	SAC 3plus 'L'	N/A
1314	Wireless Measurement Software R&S EMC32	Rohde & Schwarz	1040-OT102236	-	N/A
1461	Low Noise Preamplifier	Bonn Elektronik	2213857B	BLMA0118-4A	2024-06-01

Appendix A: Tests results

Appendix A

PRODUCT INFORMATION 14

TEST CONDITIONS 15

APPENDIX A.1: TEST RESULTS – SISO A 20

APPENDIX A.2: TEST RESULTS – SISO B 322

APPENDIX A.3: TEST RESULTS – MIMO 611

PRODUCT INFORMATION

The following information is provided by the client:

Information	Description	
Modulation	OFDM	
Maximum RF Output Power	17.2 dBm	
Operation mode		
- Operating Frequency Range	5150 - 5825 MHz	
- Nominal Channel Bandwidth	WLAN 5 GHz: 20/40/80 MHz BW	
Extreme operating conditions		
- Temperature range	15 °C to +35 °C	
Antenna type	External Antenna	
Antenna gain	BTWLAN Antenna	Mohawk Module Antenna
	3.8 dBi for SISO A 3.8 dBi for SISO B (UNI-1)	2.0 dBi for SISO A 2.0 dBi for SISO B (UNI-1)
	3.5 dBi for SISO A 3.5 dBi for SISO B (UNI-3)	4.0 dBi for SISO A 2.1 dBi for SISO B (UNI-3)
	3.8 dBi for MIMO (UNI-1) 3.5 dBi for MIMO (UNI-3)	2.0 dBi for MIMO (UNI-1) 3.2 dBi for MIMO (UNI-3)
	MIMO Antenna gain values are calculated based on SISO A & SISO B values according to KDB 662911 D02(F)	
Nominal Voltage		
- Supply Voltage	12 Vdc	
- Type of power source	DC voltage	
Equipment type	Wi-Fi 5 GHz a/n/ac/ax	

TEST CONDITIONS

(*): Data provided by the client.

TEST CONDITIONS	DESCRIPTION
TC#01 ⁽¹⁾ (ac mode)	<u>Power supply (V):</u> $V_{nominal} = 12\text{ Vdc}$ <u>Channel Bandwidth:</u> 20 MHz <u>Test Frequencies for Conducted/Radiated tests:</u> <u>UNII-1:</u> Lowest channel: 5180 MHz Middle channel: 5200 MHz Highest channel: 5240 MHz <u>UNII-3:</u> Lowest channel: 5745 MHz Middle channel: 5785 MHz Highest channel: 5825 MHz <u>Channel Bandwidth:</u> 40 MHz <u>Test Frequencies for Conducted/Radiated tests:</u> <u>UNII-1:</u> Lowest channel: 5190 MHz Highest channel: 5230 MHz <u>UNII-3:</u> Lowest channel: 5755 MHz Highest channel: 5795 MHz <u>Channel Bandwidth:</u> 80 MHz <u>Test Frequencies for Conducted/Radiated tests:</u> <u>UNII-1:</u> Lowest channel: 5210 MHz <u>UNII-3:</u> Lowest channel: 5775 MHz

TEST CONDITIONS	DESCRIPTION
TC#02 ⁽¹⁾ (ax mode)	<u>Power supply (V):</u> $V_{\text{nominal}} = 12 \text{ Vdc}$ <u>Channel Bandwidth: 20 MHz</u> <u>Test Frequencies for Conducted/Radiated tests:</u> <u>UNII-1:</u> Lowest channel: 5180 MHz Middle channel: 5200 MHz Highest channel: 5240 MHz <u>UNII-3:</u> Lowest channel: 5745 MHz Middle channel: 5785 MHz Highest channel: 5825 MHz <u>Channel Bandwidth: 40 MHz</u> <u>Test Frequencies for Conducted/Radiated tests:</u> <u>UNII-1:</u> Lowest channel: 5190 MHz Highest channel: 5230 MHz <u>UNII-3:</u> Lowest channel: 5755 MHz Highest channel: 5795 MHz <u>Channel Bandwidth: 80 MHz</u> <u>Test Frequencies for Conducted/Radiated tests:</u> <u>UNII-1:</u> Lowest channel: 5210 MHz <u>UNII-3:</u> Lowest channel: 5775 MHz
TC#03 ⁽¹⁾ (a mode)	<u>Power supply (V):</u> $V_{\text{nominal}} = 12 \text{ Vdc}$ <u>Channel Bandwidth: 20 MHz</u> <u>Test Frequencies for Conducted/Radiated tests:</u> <u>UNII-1:</u> Lowest channel: 5180 MHz Middle channel: 5200 MHz Highest channel: 5240 MHz <u>UNII-3:</u> Lowest channel: 5745 MHz Middle channel: 5785 MHz Highest channel: 5825 MHz

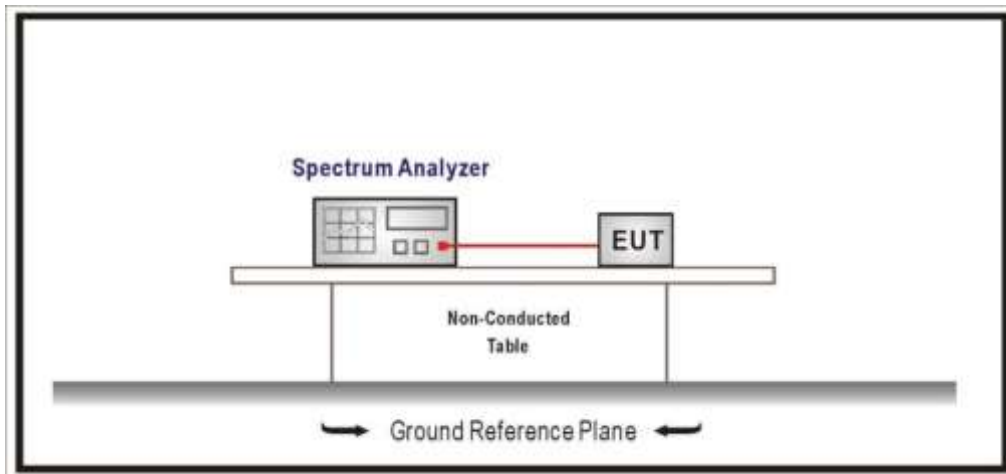
TEST CONDITIONS	DESCRIPTION
TC#04 ⁽¹⁾ (n mode)	<u>Power supply (V):</u> $V_{\text{nominal}} = 12 \text{ Vdc}$ <u>Channel Bandwidth:</u> 20 MHz <u>Test Frequencies for Conducted/Radiated tests:</u> <u>UNII-1:</u> Lowest channel: 5180 MHz Middle channel: 5200 MHz Highest channel: 5240 MHz <u>UNII-3:</u> Lowest channel: 5745 MHz Middle channel: 5785 MHz Highest channel: 5825 MHz <u>Channel Bandwidth:</u> 40 MHz <u>Test Frequencies for Conducted/Radiated tests:</u> <u>UNII-1:</u> Lowest channel: 5190 MHz Highest channel: 5230 MHz <u>UNII-3:</u> Lowest channel: 5755 MHz Highest channel: 5795 MHz

Note (1): The test set-up was made in accordance to the general provisions of FCC Unlicensed National Information Infrastructure (U-NII) Devices 789033 D02 General U-NII Test Procedures New Rules v02r01 dated Dec 14, 2017.

The EUT was tested in the following operating mode:

- Continuously transmitting with a modulated carrier at maximum power in all required channels using the supported data rates/modulation types.
- Preliminary tests for 26 dB and Occupied bandwidth determined the MIMO worst case.
- For spurious emissions for OFDM modes 802.11a, 802.11n20/40, 802.11ac20/40/80, and 11ax20/40/80 a preliminary scan was performed to determine worst case. The following tables and plots show the results for the worst case for MIMO in 802.11ac and ax mode.
- The worst cases for testing were identified for output power and spurious levels at the band edges which were selected based on preliminary testing that correspond to next data rates: 802.11 a20: 6 Mbps, 802.11 n HT20: MCS0, 802.11 n HT40: MCS0, 802.11 ac VHT20: MCS0, 802.11 ac VHT40: MCS0, 802.11 ac VHT80: MCS0, 802.11 ax VHT20: MCS0, 802.11 ax VHT40: MCS0, 802.11 ax VHT80: MCS0.
- For all modes, the EUT was configured in test mode using a software application. The application was used to enable a continuous transmission and to select the test channels as required. The client supplied instructions to configure the EUT. The customer supplied a document containing the setup instructions.

CONDUCTED MEASUREMENTS:



RADIATED MEASUREMENTS:

All radiated tests were performed in a semi-anechoic chamber. The measurement antenna is situated at 3 m for the frequency range 30-1000 MHz (Bi-log antenna) and 1-18 GHz Double ridge horn antennas, and 1m for the frequency range 18 GHz- 26 GHz Double ridge horn antenna.

For radiated emissions in the range 18 - 26 GHz that is performed at a distance closer than the specified distance, an inverse proportionality factor of 20 dB per decade is used to normalize the measured data for determining compliance.

The equipment under test was set up on a non-conductive platform above the ground plane and the situation and orientation was varied to find the maximum radiated emission. It was also rotated 360° and the antenna height was varied from 1 to 4 meters to find the maximum radiated emission.

Measurements were made in both horizontal and vertical planes of polarization.

The field strength is calculated by adding correction factor to the measured level from the spectrum analyzer. This correction factor includes antenna factor, cable loss and pre-amplifiers gain.

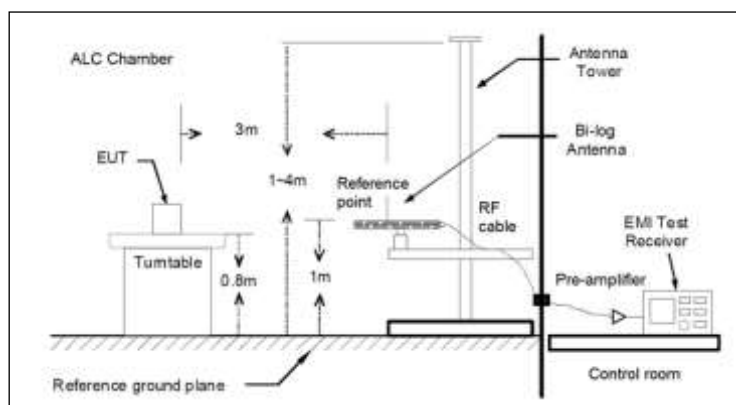


Fig A1: Radiated measurements Setup $f < 1$ GHz

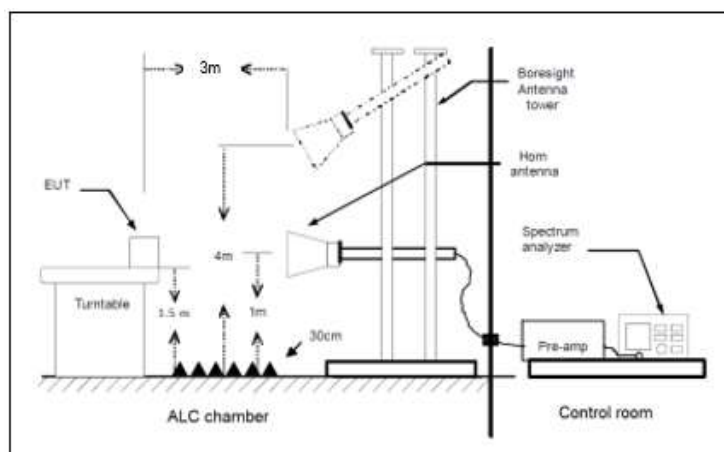


Fig A2: Radiated measurements setup $f > 1-18$ GHz

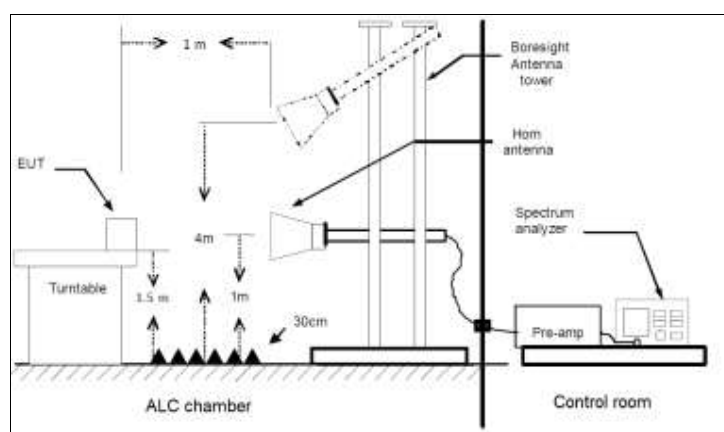


Fig A3: Radiated measurements setup $f > 18$ GHz

Appendix A.1: Test results – SISO A

APPENDIX A.1: TEST RESULTS – SISO A	20
APPENDIX A.1	21
TEST CASES DETAILS	22
FCC 15.407 (a) / RSS-247 6.2 Power Limits. Maximum Output Power	22
FCC 15.407 (a) / RSS-247 6.2 Maximum Power Spectral Density	51
FCC 15.407 (e) / RSS 247 6.2.4.1 6 dB Emission Bandwidth	100
FCC 15.407 (b) / RSS-247 6.2 Band-edge Conducted Emissions.....	129
RSS-Gen 6.6 / RSS-247 6.2. [99dBW] Transmitter 99% Occupied Bandwidth	211
FCC 15.403 / RSS-Gen 6.7 26 dB Emission Bandwidth	260
FCC 15.407 (b), 15.205 & 15.209 / RSS-Gen 8.9 & 8.10 Undesirable radiated emissions	309

TEST CASES DETAILS

FCC 15.407 (a) / RSS-247 6.2 Power Limits. Maximum Output Power

Limits

FCC 15.407: For the band 5.725-5.850 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W.

RSS-247: The maximum conducted output power shall not exceed 1 W.

Modulation: 802.11ac VHT20 SS1 (OFDM MCS0)

MIMO Mode: SISO

Results

Maximum declared BTWLAN Antenna gain: 3.8 dBi for UNI-1, 3.5 dBi for UNI-3

Operation Band (MHz)	Port	Freq (MHz)	Avg Power (dBm)	Max EIRP (dBm)
[5150, 5850]	1	5180.00000	11.5	15.3
		5200.00000	11.3	15.1
		5240.00000	12.3	16.1
		5745.00000	12.1	15.6
		5785.00000	11.3	14.8
		5825.00000	11.1	14.6

Maximum declared Mohawk Module Antenna gain: 2.0 dBi for UNI-1, 4.0 dBi for UNI-3

Operation Band (MHz)	Port	Freq (MHz)	Avg Power (dBm)	Max EIRP (dBm)
[5150, 5850]	1	5180.00000	11.5	13.5
		5200.00000	11.3	13.3
		5240.00000	12.3	14.3
		5745.00000	12.1	16.1
		5785.00000	11.3	15.3
		5825.00000	11.1	15.1

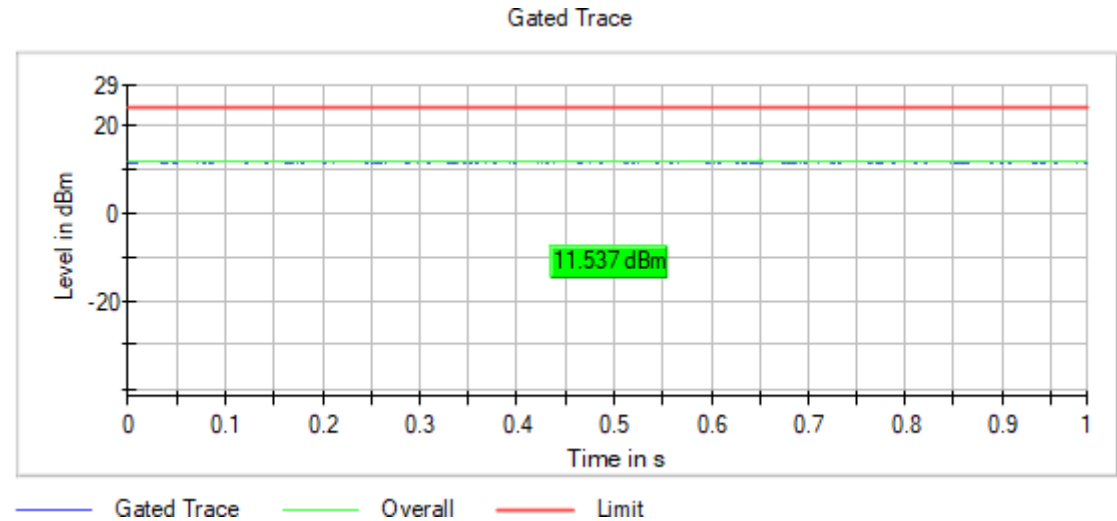
Verdict

Pass

Attachments

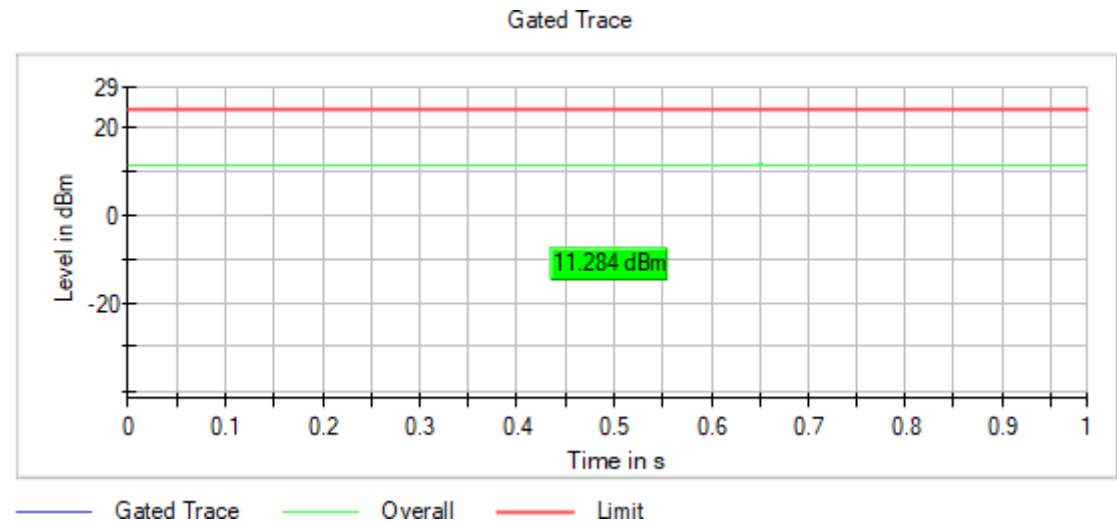
Operation Band MHz = [5150, 5850] Active Port = 1
Frequency MHz = 5180.00000 Modulation = 802.11ac VHT20 SS1 (OFDM MCS0)
TPC = No MIMO Mode = SISO

Images:



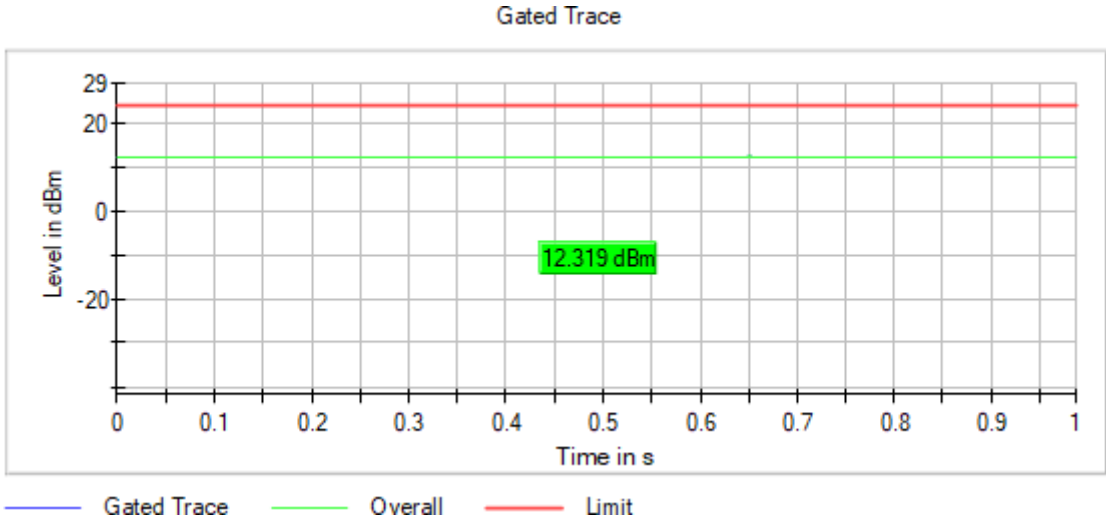
Operation Band MHz = [5150, 5850] Active Port = 1
Frequency MHz = 5200.00000 Modulation = 802.11ac VHT20 SS1 (OFDM MCS0)
TPC = No MIMO Mode = SISO

Images:



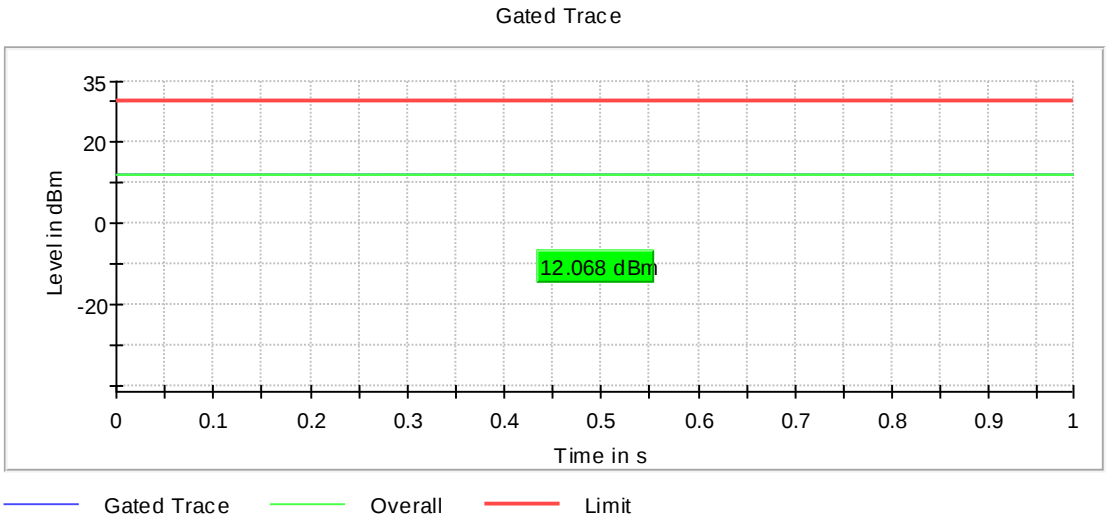
Operation Band MHz = [5150, 5850] Active Port = 1
Frequency MHz = 5240.00000 Modulation = 802.11ac VHT20 SS1 (OFDM MCS0)
TPC = No MIMO Mode = SISO

Images:



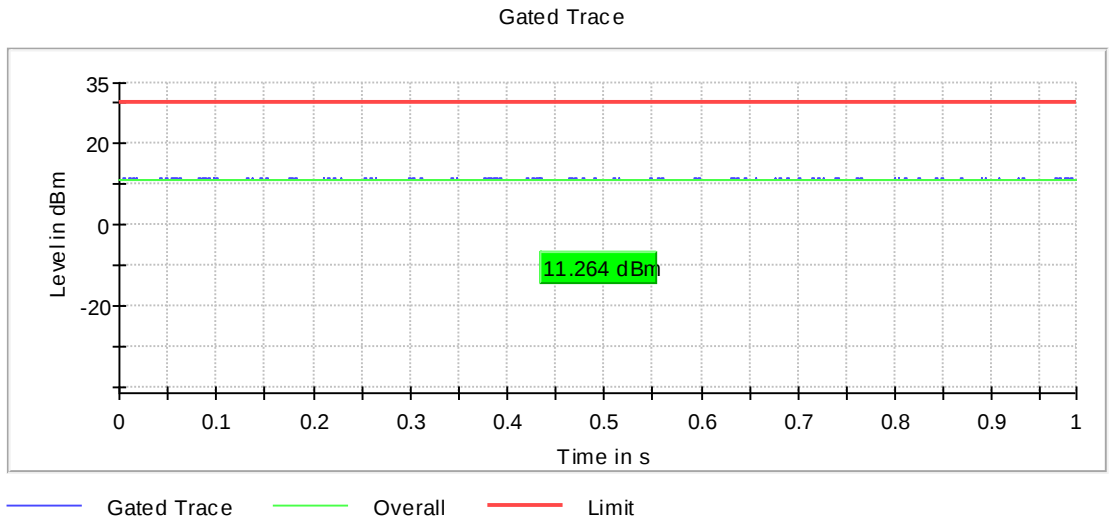
Operation Band MHz = [5150, 5850] Active Port = 1
Frequency MHz = 5745.00000 Modulation = 802.11ac VHT20 SS1 (OFDM MCS0)
TPC = No MIMO Mode = SISO

Images:



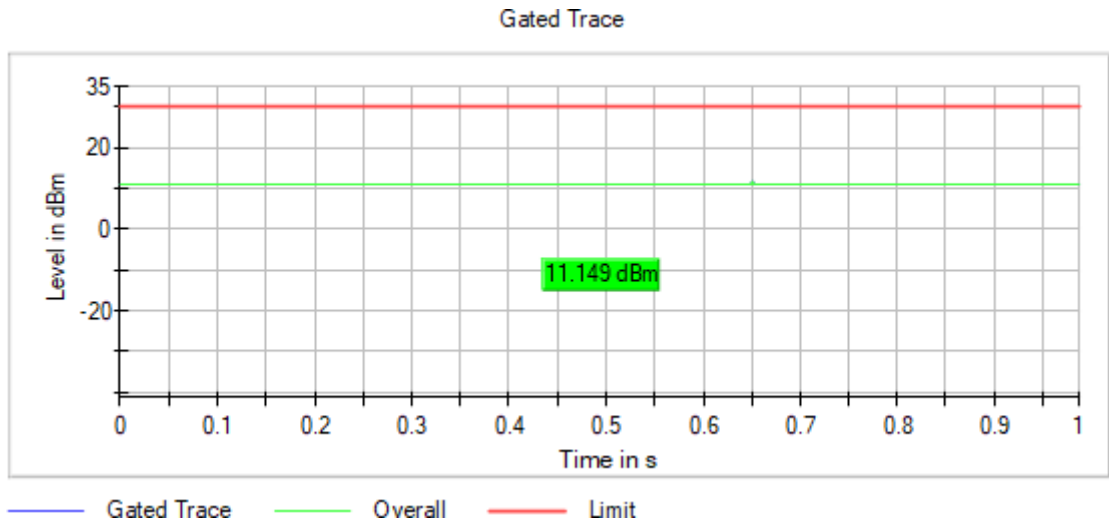
Operation Band MHz = [5150, 5850] Active Port = 1
Frequency MHz = 5785.00000 Modulation = 802.11ac VHT20 SS1 (OFDM MCS0)
TPC = No MIMO Mode = SISO

Images:



Operation Band MHz = [5150, 5850] Active Port = 1
Frequency MHz = 5825.00000 Modulation = 802.11ac VHT20 SS1 (OFDM MCS0)
TPC = No MIMO Mode = SISO

Images:



Tables:

Power Meter Settings

Setting	Instrument Value	Target Value
Measurement Time	1.000 s	1.000 s
Points	1000000	1000000
Time resolution	1.000 μs	1.000 μs

Modulation: 802.11ax HE20 SS1 (OFDMA MCS0)

MIMO Mode: SISO

Results

Maximum declared BTWLAN Antenna gain: 3.8 dBi for UNI-1, 3.5 dBi for UNI-3

Operation Band (MHz)	Port	Freq (MHz)	Avg Power (dBm)	Max EIRP (dBm)
[5150, 5850]	1	5180.00000	13.4	17.2
		5200.00000	14.3	18.1
		5240.00000	14.4	18.2
		5745.00000	12.3	15.8
		5785.00000	11.6	15.1
		5825.00000	13.7	17.2

Maximum declared Mohawk Module Antenna gain: 2.0 dBi for UNI-1, 4.0 dBi for UNI-3

Operation Band (MHz)	Port	Freq (MHz)	Avg Power (dBm)	Max EIRP (dBm)
[5150, 5850]	1	5180.00000	13.4	15.4
		5200.00000	14.3	16.3
		5240.00000	14.4	16.4
		5745.00000	12.3	16.3
		5785.00000	11.6	15.6
		5825.00000	13.7	17.7

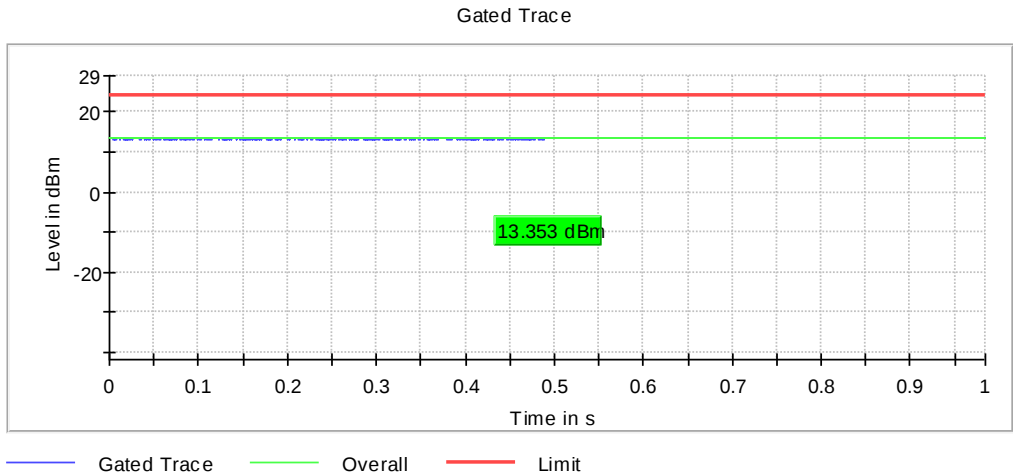
Verdict

Pass

Attachments

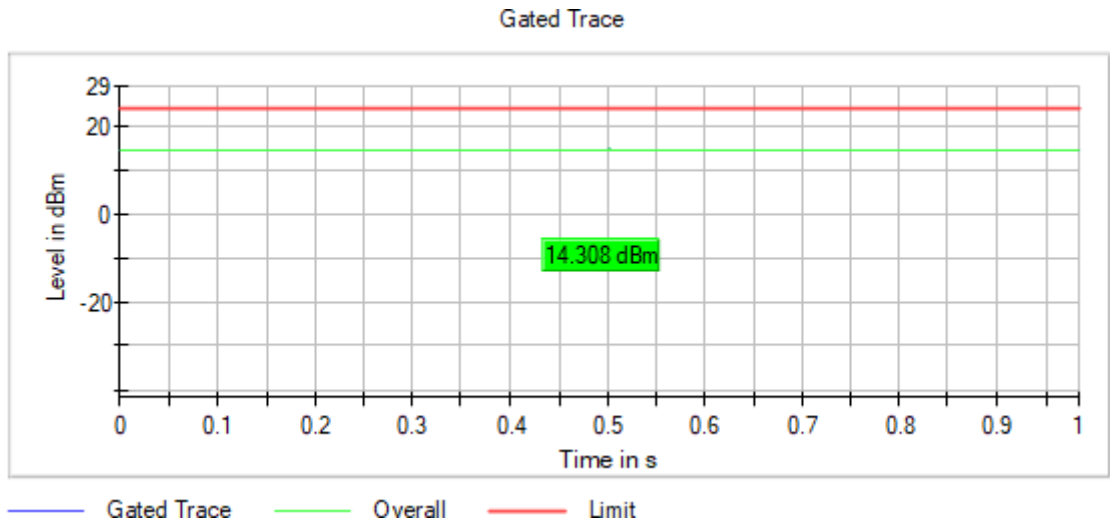
Operation Band MHz = [5150, 5850] Active Port = 1
Frequency MHz = 5180.00000 Modulation = 802.11ax HE20 SS1 (OFDMA MCS0)
TPC = No MIMO Mode = SISO

Images:



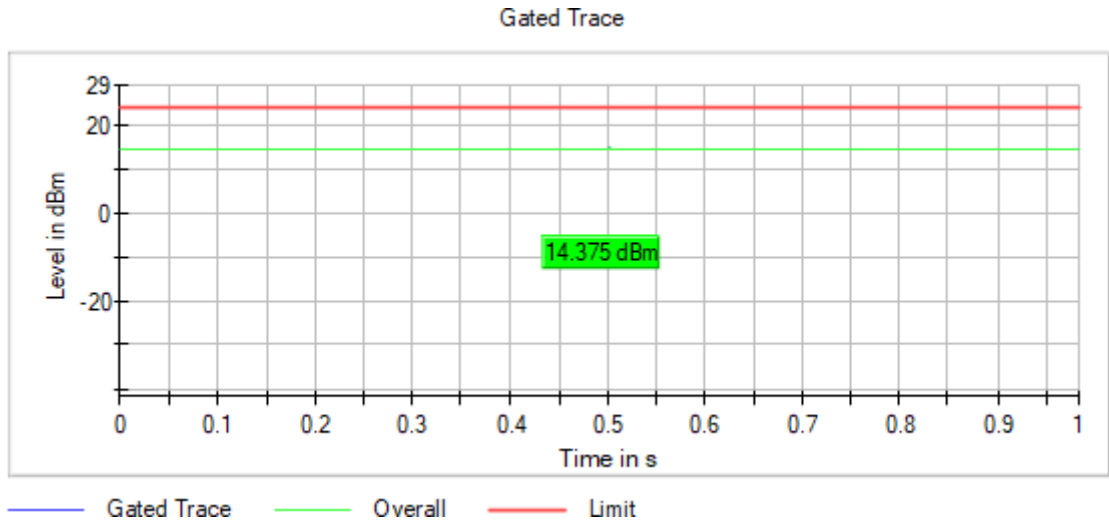
Operation Band MHz = [5150, 5850] Active Port = 1
Frequency MHz = 5200.00000 Modulation = 802.11ax HE20 SS1 (OFDMA MCS0)
TPC = No MIMO Mode = SISO

Images:



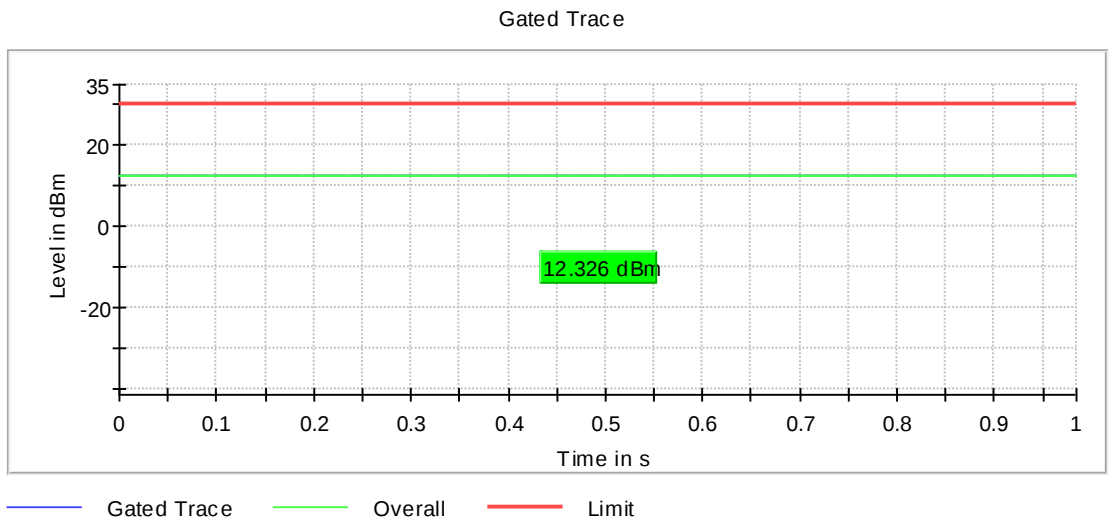
Operation Band MHz = [5150, 5850] Active Port = 1
Frequency MHz = 5240.00000 Modulation = 802.11ax HE20 SS1 (OFDMA MCS0)
TPC = No MIMO Mode = SISO

Images:



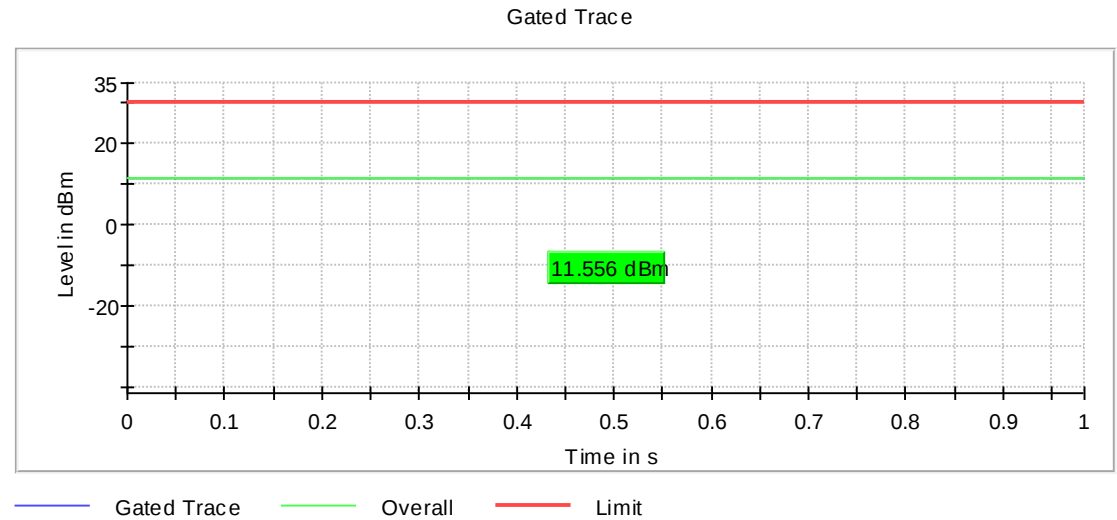
Operation Band MHz = [5150, 5850] Active Port = 1
Frequency MHz = 5745.00000 Modulation = 802.11ax HE20 SS1 (OFDMA MCS0)
TPC = No MIMO Mode = SISO

Images:



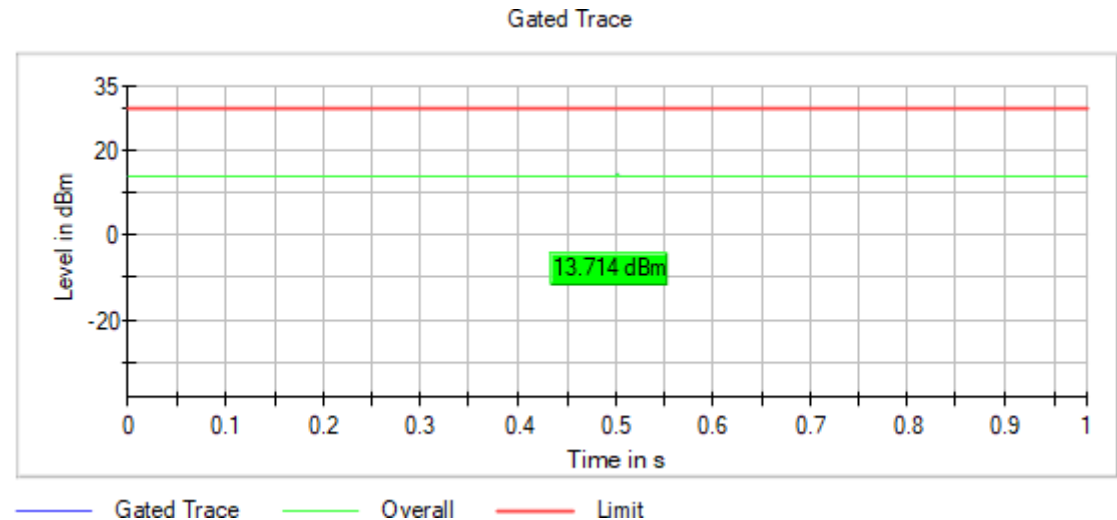
Operation Band MHz = [5150, 5850] Active Port = 1
Frequency MHz = 5785.00000 Modulation = 802.11ax HE20 SS1 (OFDMA MCS0)
TPC = No MIMO Mode = SISO

Images:



Operation Band MHz = [5150, 5850] Active Port = 1
Frequency MHz = 5825.00000 Modulation = 802.11ax HE20 SS1 (OFDMA MCS0)
TPC = No MIMO Mode = SISO

Images:



Tables:

Power Meter Settings

Setting	Instrument Value	Target Value
Measurement Time	1.000 s	1.000 s
Points	1000000	1000000
Time resolution	1.000 μs	1.000 μs

Modulation: 802.11ac VHT40 SS1 (OFDM MCS0)

MIMO Mode: SISO

Results

Maximum declared BTWLAN Antenna gain: 3.8 dBi for UNI-1, 3.5 dBi for UNI-3

Operation Band (MHz)	Port	Freq (MHz)	Avg Power (dBm)	Max EIRP (dBm)
[5150, 5850]	1	5190.00000	11.4	15.2
		5230.00000	11.8	15.6
		5755.00000	12.7	16.2
		5795.00000	12.6	16.1

Maximum declared Mohawk Module Antenna gain: 2.0 dBi for UNI-1, 4.0 dBi for UNI-3

Operation Band (MHz)	Port	Freq (MHz)	Avg Power (dBm)	Max EIRP (dBm)
[5150, 5850]	1	5190.00000	11.4	13.4
		5230.00000	11.8	13.8
		5755.00000	12.7	16.7
		5795.00000	12.6	16.6

Verdict

Pass

Attachments

Operation Band MHz = [5150, 5850] Active Port = 1

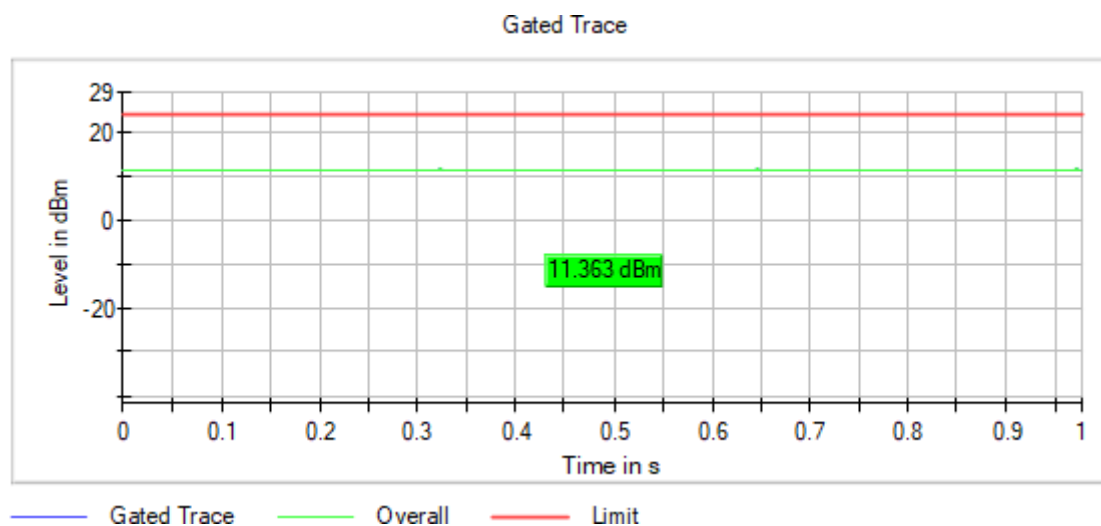
Frequency MHz = 5190.00000

Modulation = 802.11ac VHT40 SS1 (OFDM MCS0)

TPC = No

MIMO Mode = SISO

Images:



Operation Band MHz = [5150, 5850] Active Port = 1

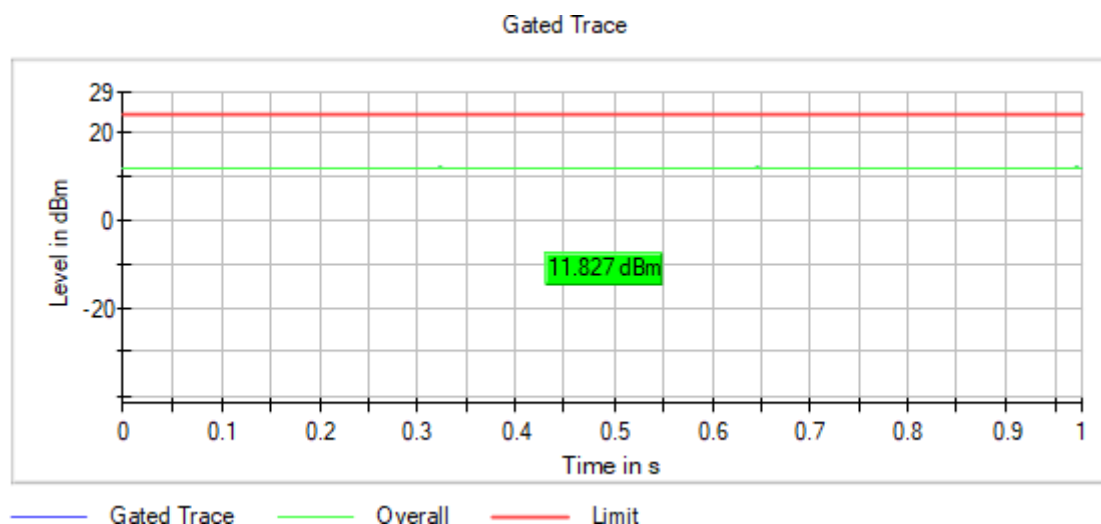
Frequency MHz = 5230.00000

Modulation = 802.11ac VHT40 SS1 (OFDM MCS0)

TPC = No

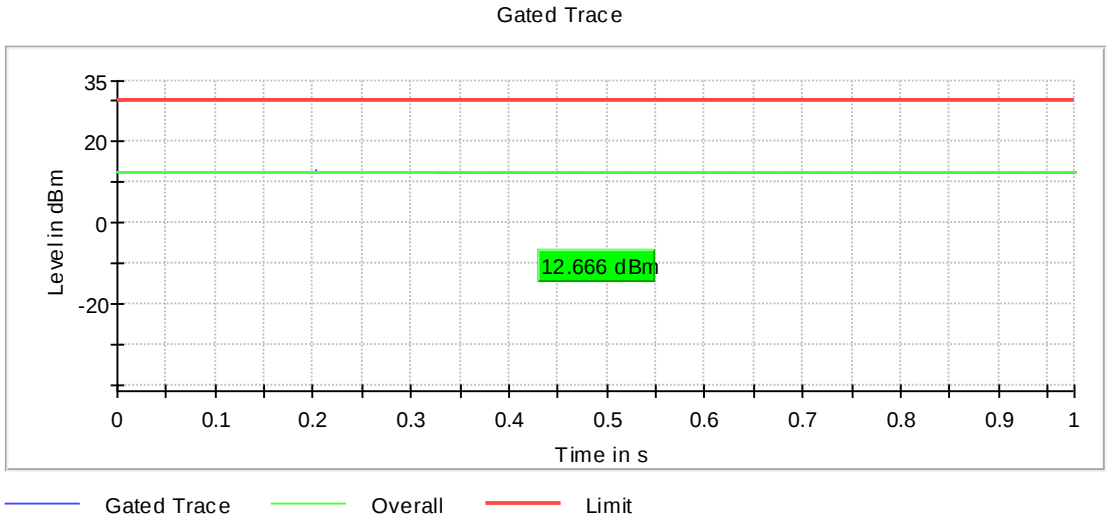
MIMO Mode = SISO

Images:



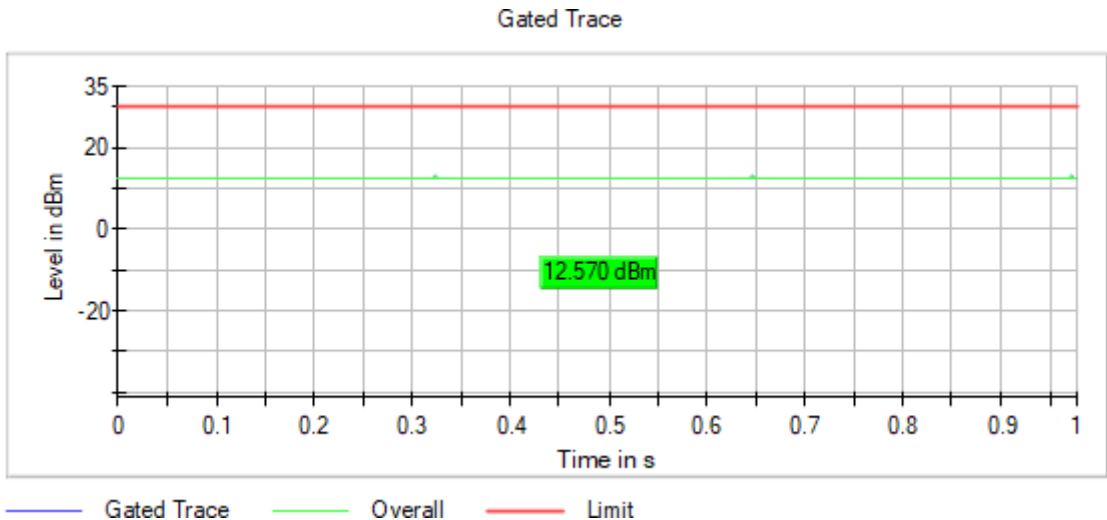
Operation Band MHz = [5150, 5850] Active Port = 1
Frequency MHz = 5755.00000 Modulation = 802.11ac VHT40 SS1 (OFDM MCS0)
TPC = No MIMO Mode = SISO

Images:



Operation Band MHz = [5150, 5850] Active Port = 1
Frequency MHz = 5795.00000 Modulation = 802.11ac VHT40 SS1 (OFDM MCS0)
TPC = No MIMO Mode = SISO

Images:



Tables:

Power Meter Settings

Setting	Instrument Value	Target Value
Measurement Time	1.000 s	1.000 s
Points	1000000	1000000
Time resolution	1.000 μs	1.000 μs

Modulation: 802.11ax HE40 SS1 (OFDMA MCS0)

MIMO Mode: SISO

Results

Maximum declared BTWLAN Antenna gain: 3.8 dBi for UNI-1, 3.5 dBi for UNI-3

Operation Band (MHz)	Port	Freq (MHz)	Avg Power (dBm)	Max EIRP (dBm)
[5150, 5850]	1	5190.00000	12.4	16.2
		5230.00000	11.3	15.1
		5755.00000	12.1	15.6
		5795.00000	14.0	17.5

Maximum declared Mohawk Module Antenna gain: 2.0 dBi for UNI-1, 4.0 dBi for UNI-3

Operation Band (MHz)	Port	Freq (MHz)	Avg Power (dBm)	Max EIRP (dBm)
[5150, 5850]	1	5190.00000	12.4	14.4
		5230.00000	11.3	13.3
		5755.00000	12.1	16.1
		5795.00000	14.0	18.0

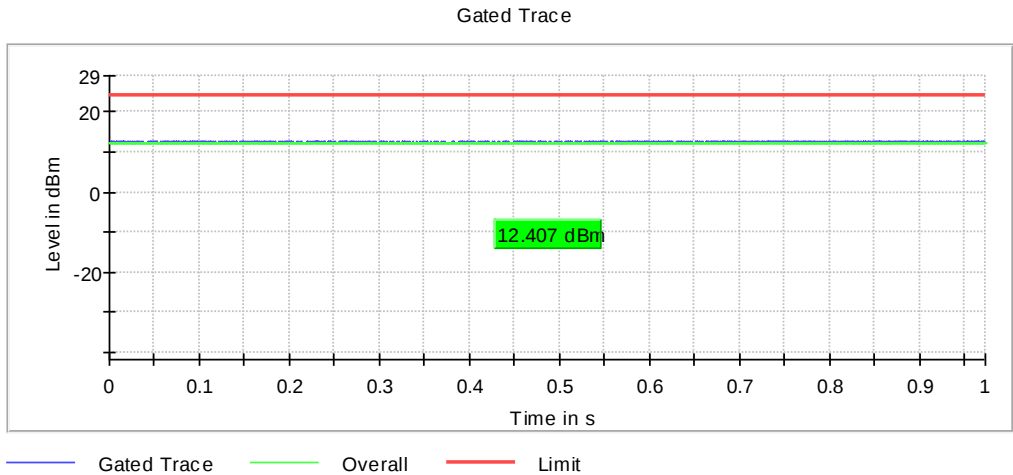
Verdict

Pass

Attachments

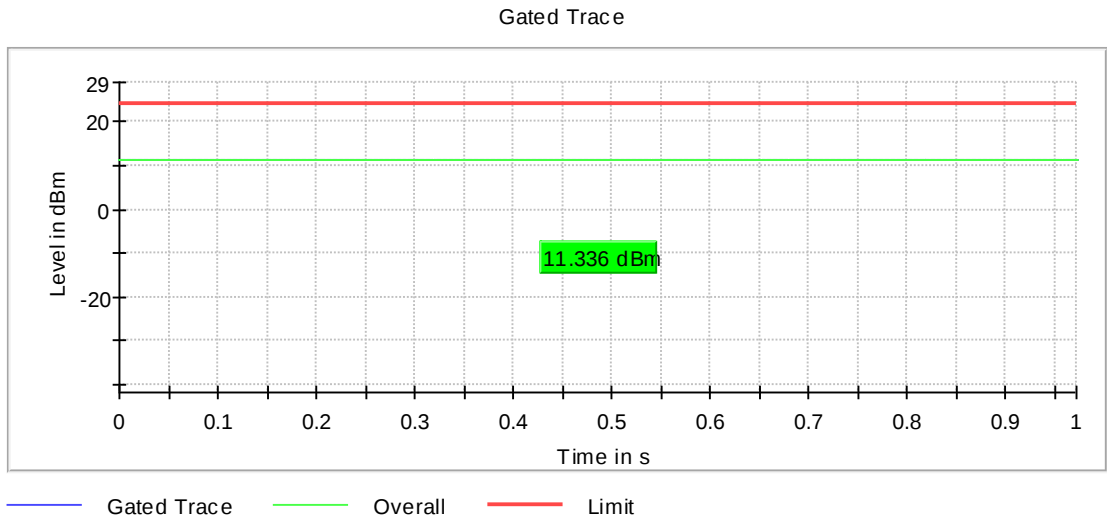
Operation Band MHz = [5150, 5850] Active Port = 1
Frequency MHz = 5190.00000 Modulation = 802.11ax HE40 SS1 (OFDMA MCS0)
TPC = No MIMO Mode = SISO

Images:



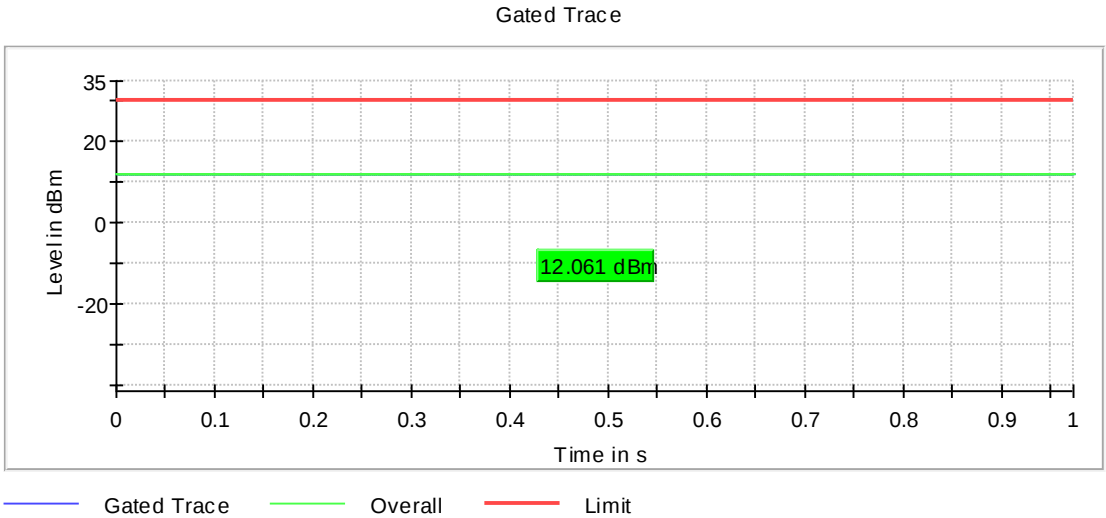
Operation Band MHz = [5150, 5850] Active Port = 1
Frequency MHz = 5230.00000 Modulation = 802.11ax HE40 SS1 (OFDMA MCS0)
TPC = No MIMO Mode = SISO

Images:



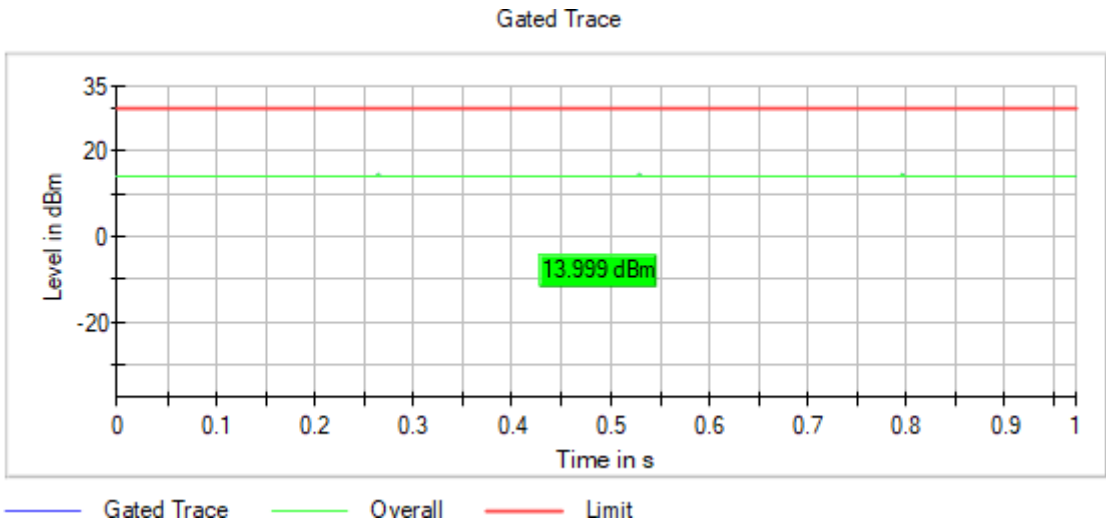
Operation Band MHz = [5150, 5850] Active Port = 1
Frequency MHz = 5755.00000 Modulation = 802.11ax HE40 SS1 (OFDMA MCS0)
TPC = No MIMO Mode = SISO

Images:



Operation Band MHz = [5150, 5850] Active Port = 1
Frequency MHz = 5795.00000 Modulation = 802.11ax HE40 SS1 (OFDMA MCS0)
TPC = No MIMO Mode = SISO

Images:



Tables:

Power Meter Settings

Setting	Instrument Value	Target Value
Measurement Time	1.000 s	1.000 s
Points	1000000	1000000
Time resolution	1.000 μs	1.000 μs

Modulation: 802.11ac VHT80 SS1 (OFDM MCS0)

MIMO Mode: SISO

Results

Maximum declared BTWLAN Antenna gain: 3.8 dBi for UNI-1, 3.5 dBi for UNI-3

Operation Band (MHz)	Port	Freq (MHz)	Avg Power (dBm)	Max EIRP (dBm)
[5150, 5850]	1	5210.00000	11.9	15.7
		5775.00000	13.1	16.6

Maximum declared Mohawk Module Antenna gain: 2.0 dBi for UNI-1, 4.0 dBi for UNI-3

Operation Band (MHz)	Port	Freq (MHz)	Avg Power (dBm)	Max EIRP (dBm)
[5150, 5850]	1	5210.00000	11.9	13.9
		5775.00000	13.1	17.1

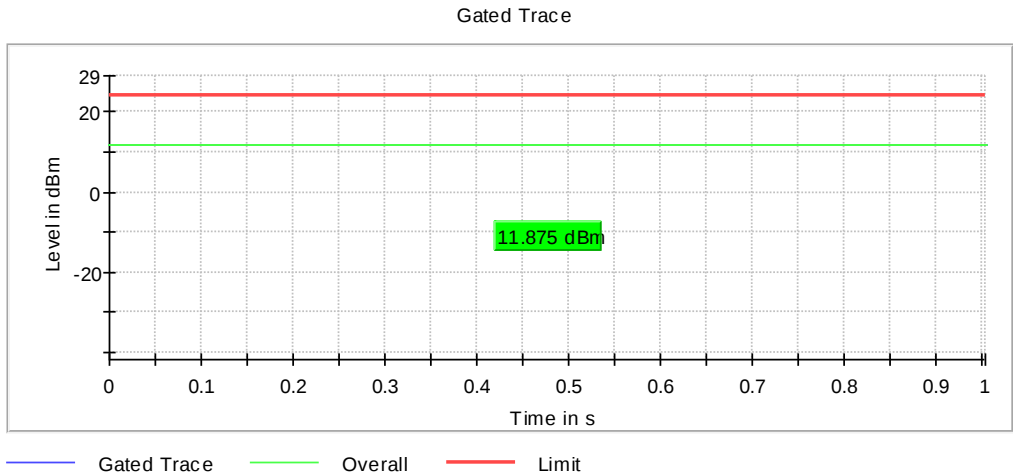
Verdict

Pass

Attachments

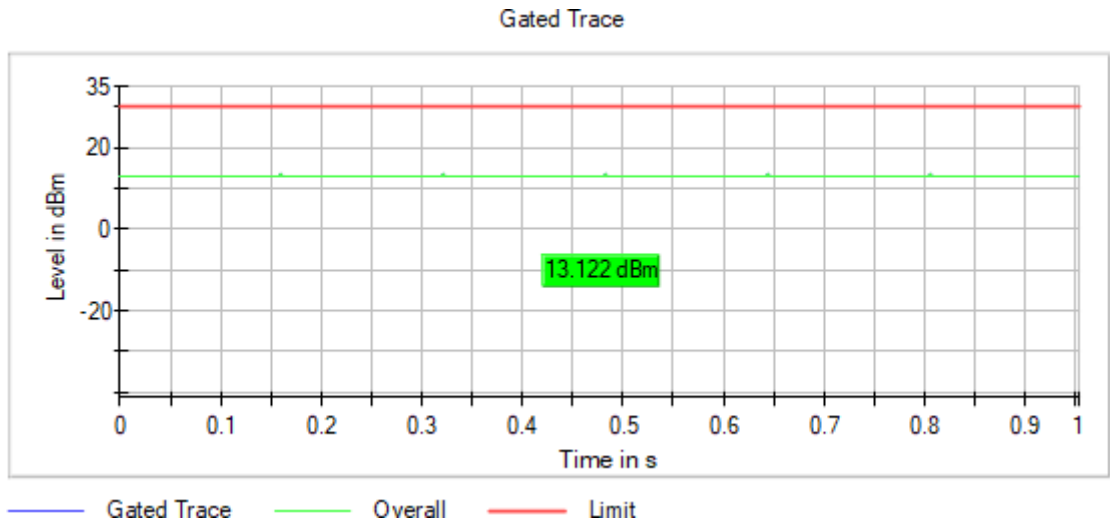
Operation Band MHz = [5150, 5850] Active Port = 1
Frequency MHz = 5210.00000 Modulation = 802.11ac VHT80 SS1 (OFDM MCS0)
TPC = No MIMO Mode = SISO

Images:



Operation Band MHz = [5150, 5850] Active Port = 1
Frequency MHz = 5775.00000 Modulation = 802.11ac VHT80 SS1 (OFDM MCS0)
TPC = No MIMO Mode = SISO

Images:



Tables:

Power Meter Settings

Setting	Instrument Value	Target Value
Measurement Time	1.000 s	1.000 s
Points	1000000	1000000
Time resolution	1.000 μs	1.000 μs

Modulation: 802.11ax HE80 SS1 (OFDMA MCS0)

MIMO Mode: SISO

Results

Maximum declared BTWLAN Antenna gain: 3.8 dBi for UNI-1, 3.5 dBi for UNI-3

Operation Band (MHz)	Port	Freq (MHz)	Avg Power (dBm)	Max EIRP (dBm)
[5150, 5850]	1	5210.00000	11.2	15.0
		5775.00000	14.6	18.1

Maximum declared Mohawk Module Antenna gain: 2.0 dBi for UNI-1, 4.0 dBi for UNI-3

Operation Band (MHz)	Port	Freq (MHz)	Avg Power (dBm)	Max EIRP (dBm)
[5150, 5850]	1	5210.00000	11.2	13.2
		5775.00000	14.6	18.6

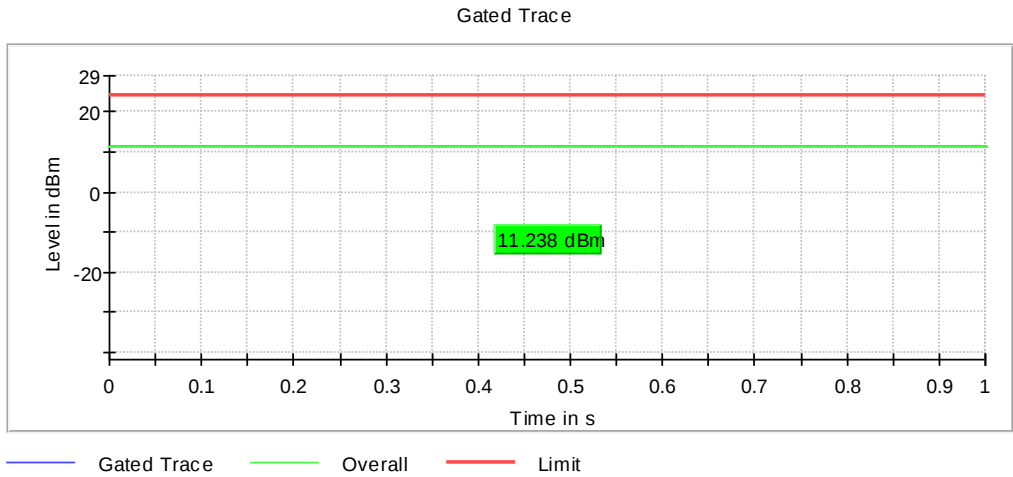
Verdict

Pass

Attachments

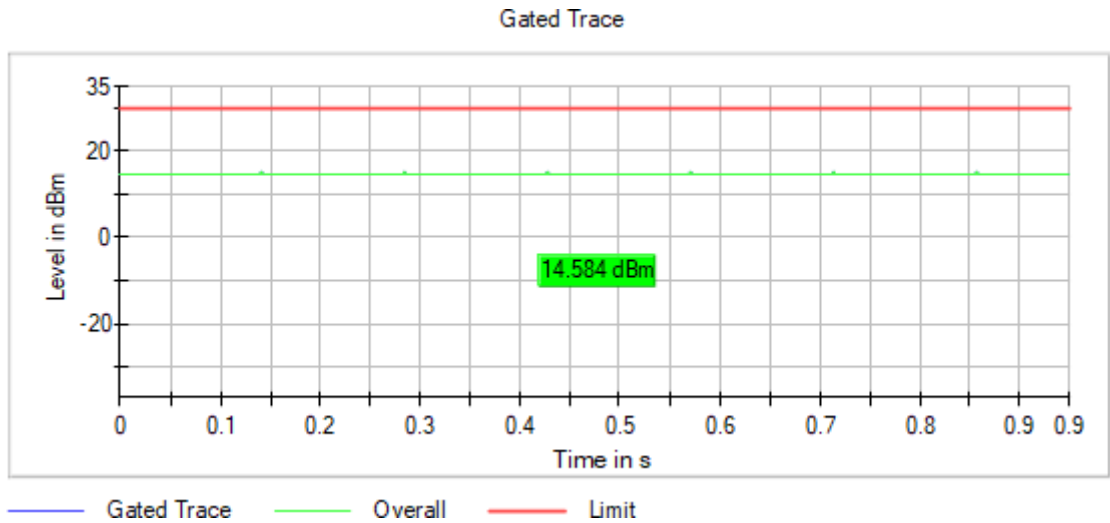
Operation Band MHz = [5150, 5850] Active Port = 1
Frequency MHz = 5210.00000 Modulation = 802.11ax HE80 SS1 (OFDMA MCS0)
TPC = No MIMO Mode = SISO

Images:



Operation Band MHz = [5150, 5850] Active Port = 1
Frequency MHz = 5775.00000 Modulation = 802.11ax HE80 SS1 (OFDMA MCS0)
TPC = No MIMO Mode = SISO

Images:



Tables:

Power Meter Settings

Setting	Instrument Value	Target Value
Measurement Time	1.000 s	1.000 s
Points	1000000	1000000
Time resolution	1.000 μs	1.000 μs

Modulation: 802.11a (OFDM 6 Mbit/s)

MIMO Mode: SISO

Maximum declared BTWLAN Antenna gain: 3.8 dBi for UNI-1, 3.5 dBi for UNI-3

Results

Operation Band (MHz)	Port	Freq (MHz)	Avg Power (dBm)	Max EIRP (dBm)
[5150, 5850]	1	5180.00000	13.7	17.5
		5200.00000	13.4	17.2
		5240.00000	14.6	18.4
		5745.00000	11.2	14.7
		5785.00000	12.4	15.9
		5825.00000	12.3	15.8

Maximum declared Mohawk Module Antenna gain: 2.0 dBi for UNI-1, 4.0 dBi for UNI-3

Operation Band (MHz)	Port	Freq (MHz)	Avg Power (dBm)	Max EIRP (dBm)
[5150, 5850]	1	5180.00000	13.7	15.7
		5200.00000	13.4	15.4
		5240.00000	14.6	16.6
		5745.00000	11.2	15.2
		5785.00000	12.4	16.4
		5825.00000	12.3	16.3

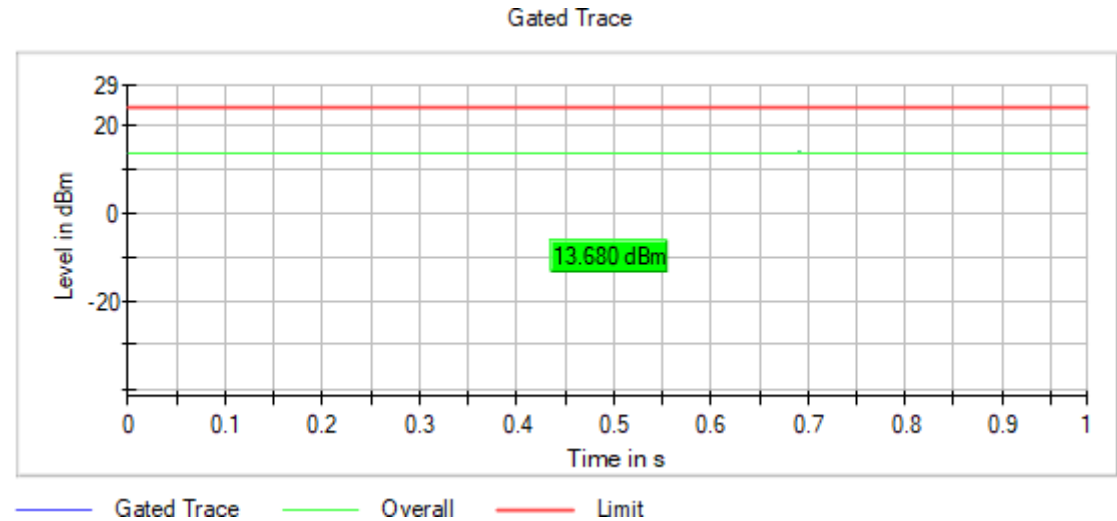
Verdict

Pass

Attachments

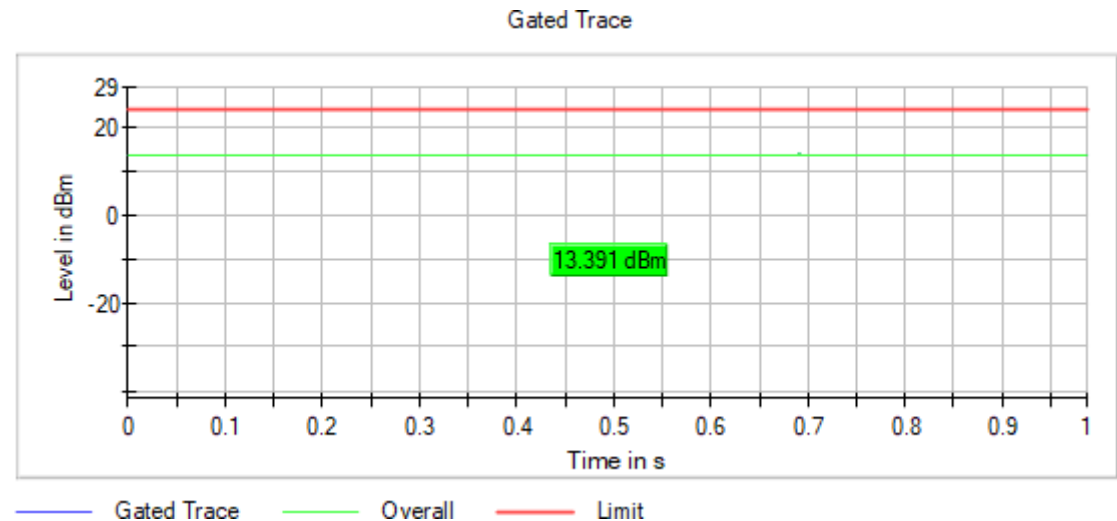
Operation Band MHz = [5150, 5850] Active Port = 1
Frequency MHz = 5180.00000 Modulation = 802.11a (OFDM 6 Mbit/s)
TPC = No MIMO Mode = SISO

Images:



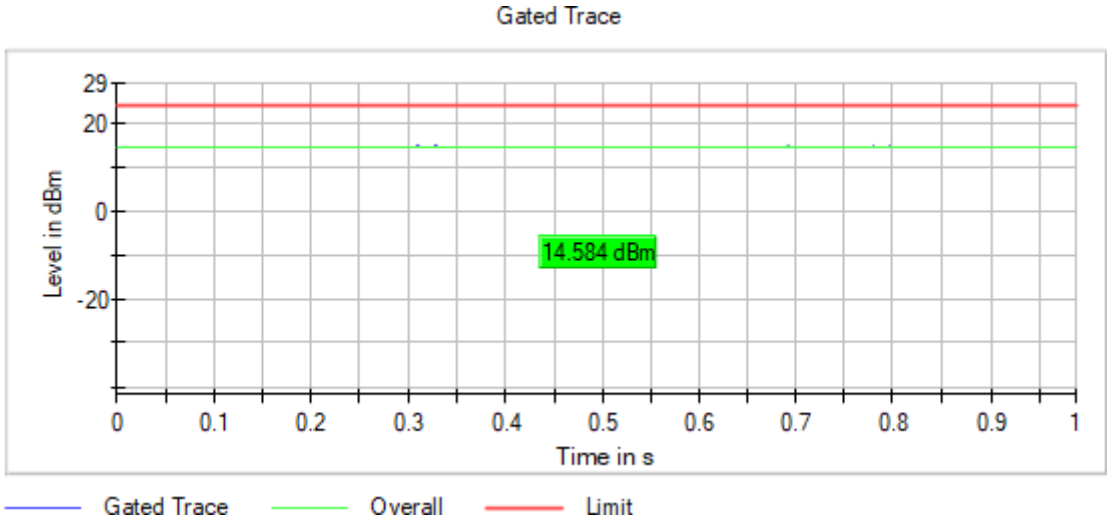
Operation Band MHz = [5150, 5850] Active Port = 1
Frequency MHz = 5200.00000 Modulation = 802.11a (OFDM 6 Mbit/s)
TPC = No MIMO Mode = SISO

Images:



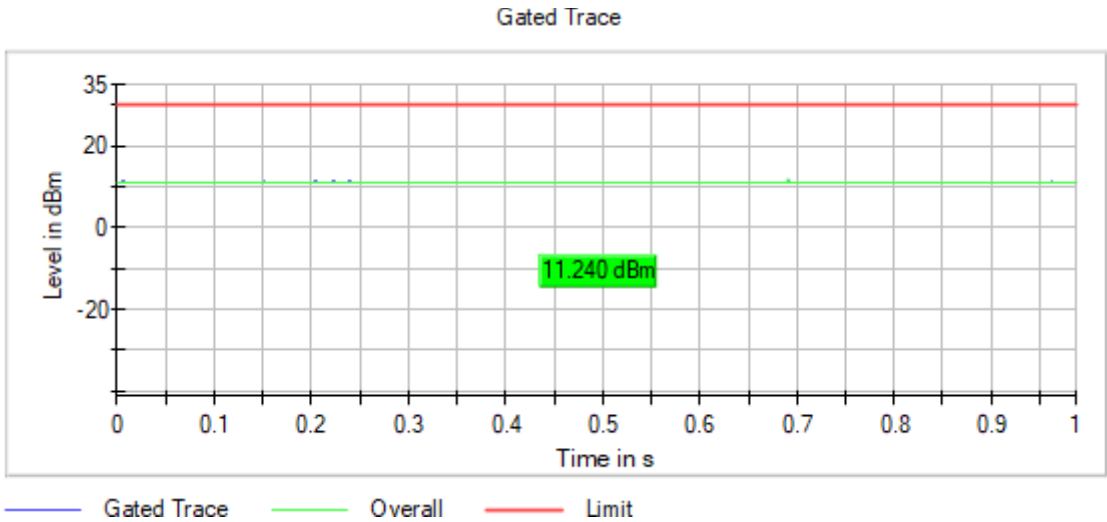
Operation Band MHz = [5150, 5850] Active Port = 1
Frequency MHz = 5240.00000 Modulation = 802.11a (OFDM 6 Mbit/s)
TPC = No MIMO Mode = SISO

Images:



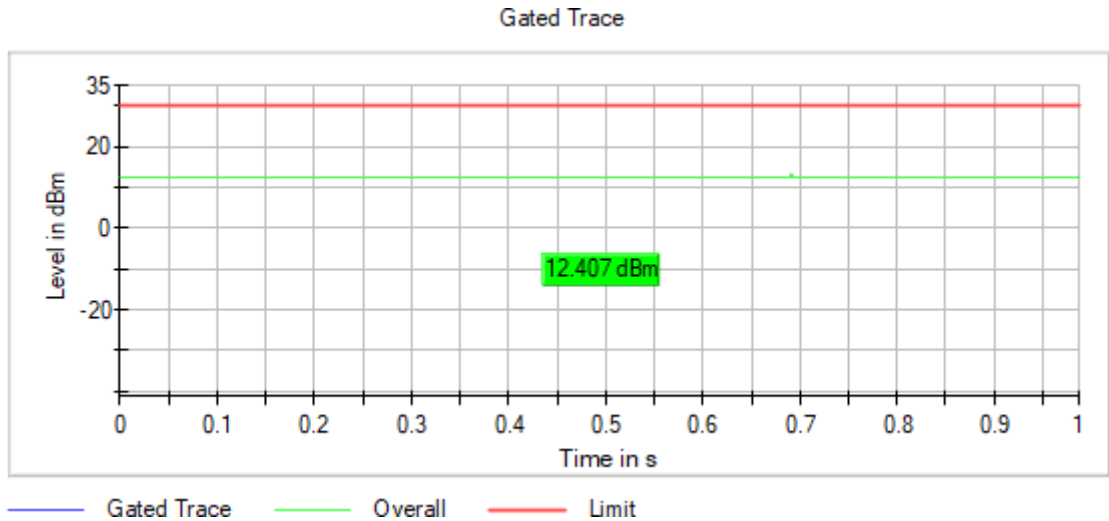
Operation Band MHz = [5150, 5850] Active Port = 1
Frequency MHz = 5745.00000 Modulation = 802.11a (OFDM 6 Mbit/s)
TPC = No MIMO Mode = SISO

Images:



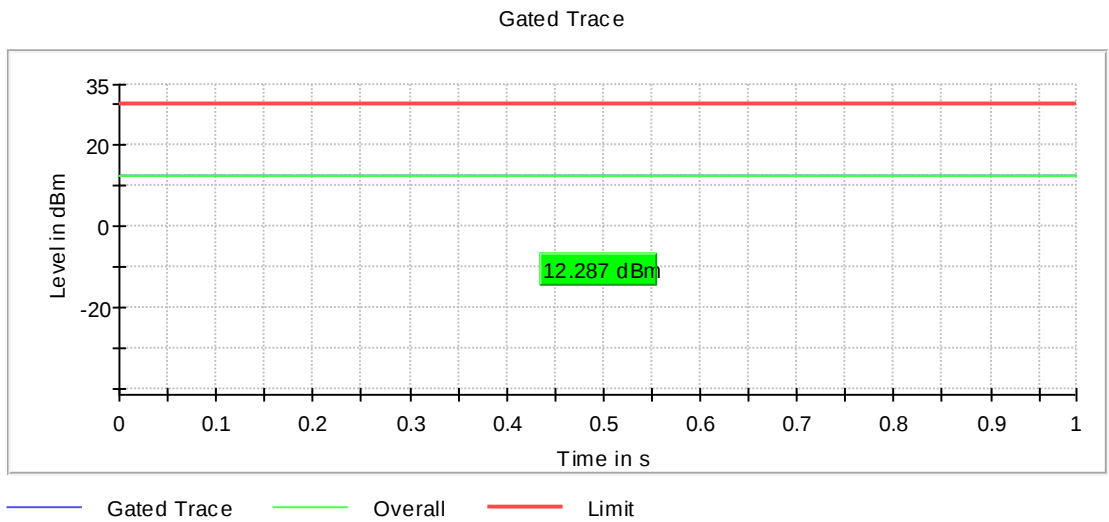
Operation Band MHz = [5150, 5850] Active Port = 1
Frequency MHz = 5785.00000 Modulation = 802.11a (OFDM 6 Mbit/s)
TPC = No MIMO Mode = SISO

Images:



Operation Band MHz = [5150, 5850] Active Port = 1
Frequency MHz = 5825.00000 Modulation = 802.11a (OFDM 6 Mbit/s)
TPC = No MIMO Mode = SISO

Images:



Tables:
Power Meter Settings

Setting	Instrument Value	Target Value
Measurement Time	1.000 s	1.000 s
Points	1000000	1000000
Time resolution	1.000 μs	1.000 μs

Modulation: 802.11n HT20 (OFDM MCS0)

MIMO Mode: SISO

Results

Maximum declared BTWLAN Antenna gain: 3.8 dBi for UNI-1, 3.5 dBi for UNI-3

Operation Band (MHz)	Port	Freq (MHz)	Avg Power (dBm)	Max EIRP (dBm)
[5150, 5850]	1	5180.00000	12.6	16.4
		5200.00000	12.3	16.1
		5240.00000	13.4	17.2
		5745.00000	11.0	14.5
		5785.00000	10.3	13.8
		5825.00000	10.2	13.7

Maximum declared Mohawk Module Antenna gain: 2.0 dBi for UNI-1, 4.0 dBi for UNI-3

Operation Band (MHz)	Port	Freq (MHz)	Avg Power (dBm)	Max EIRP (dBm)
[5150, 5850]	1	5180.00000	12.6	14.6
		5200.00000	12.3	14.3
		5240.00000	13.4	15.4
		5745.00000	11.0	15.0
		5785.00000	10.3	14.3
		5825.00000	10.2	14.2

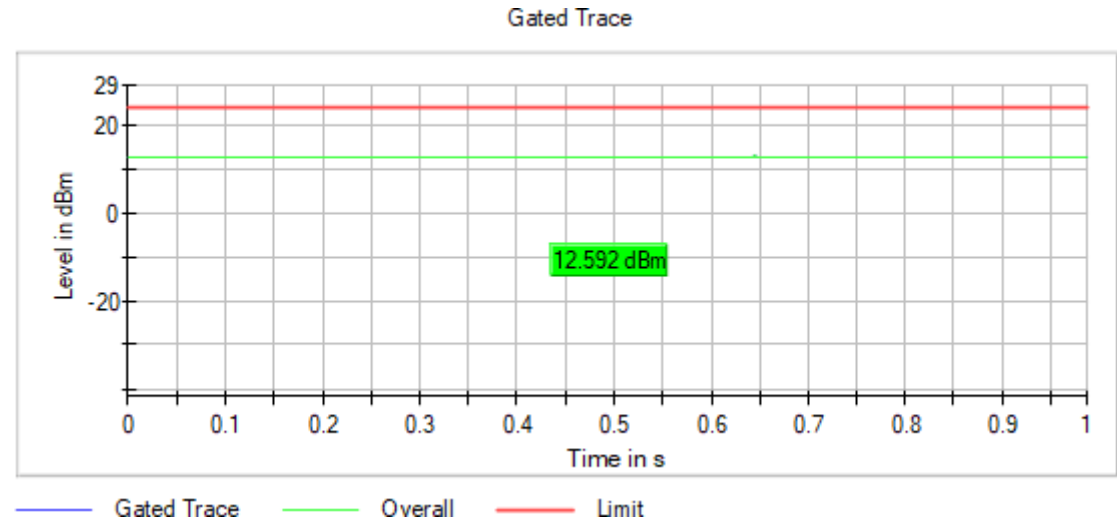
Verdict

Pass

Attachments

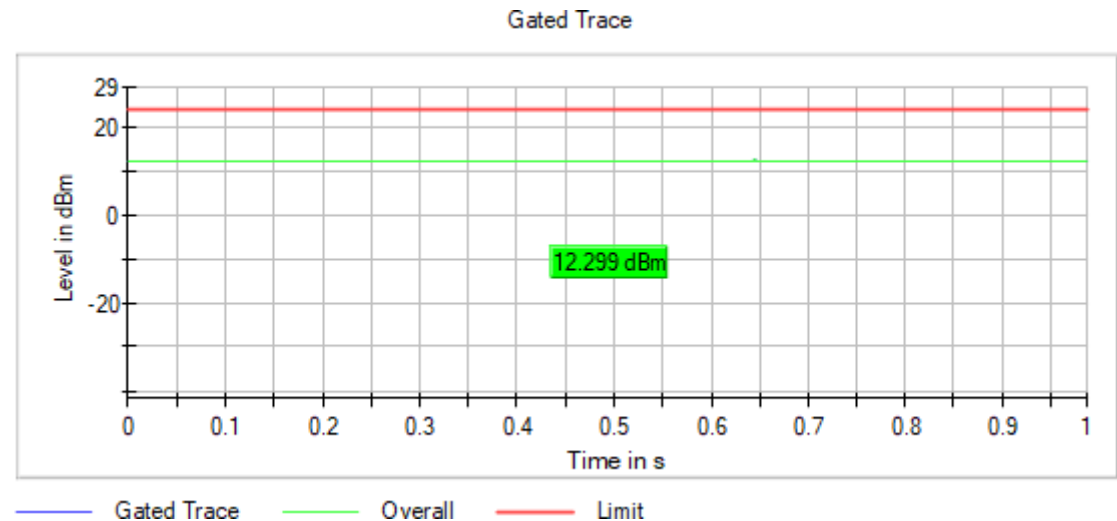
Operation Band MHz = [5150, 5850] Active Port = 1
Frequency MHz = 5180.00000 Modulation = 802.11n HT20 (OFDM MCS0)
TPC = No MIMO Mode = SISO

Images:



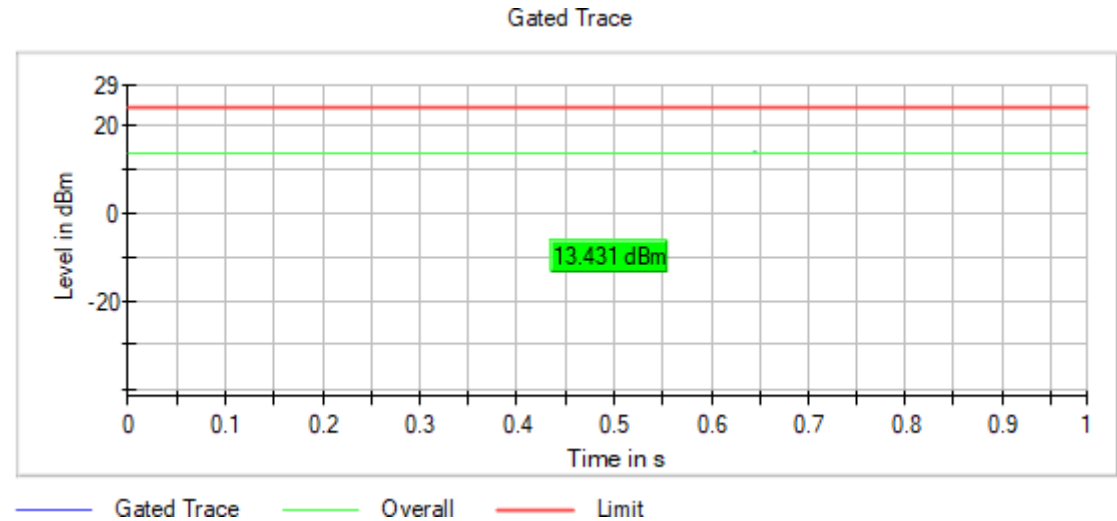
Operation Band MHz = [5150, 5850] Active Port = 1
Frequency MHz = 5200.00000 Modulation = 802.11n HT20 (OFDM MCS0)
TPC = No MIMO Mode = SISO

Images:



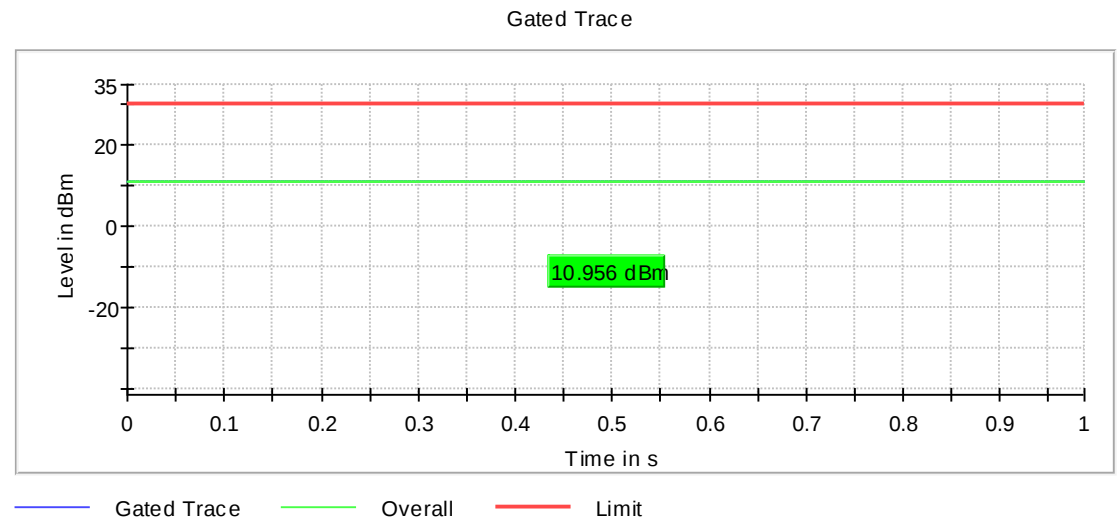
Operation Band MHz = [5150, 5850] Active Port = 1
Frequency MHz = 5240.00000 Modulation = 802.11n HT20 (OFDM MCS0)
TPC = No MIMO Mode = SISO

Images:



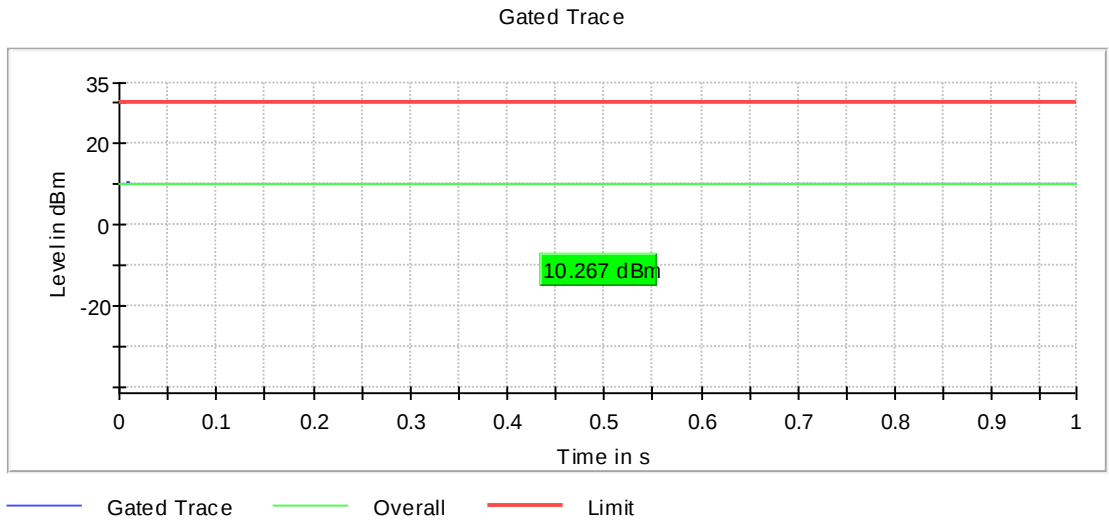
Operation Band MHz = [5150, 5850] Active Port = 1
Frequency MHz = 5745.00000 Modulation = 802.11n HT20 (OFDM MCS0)
TPC = No MIMO Mode = SISO

Images:



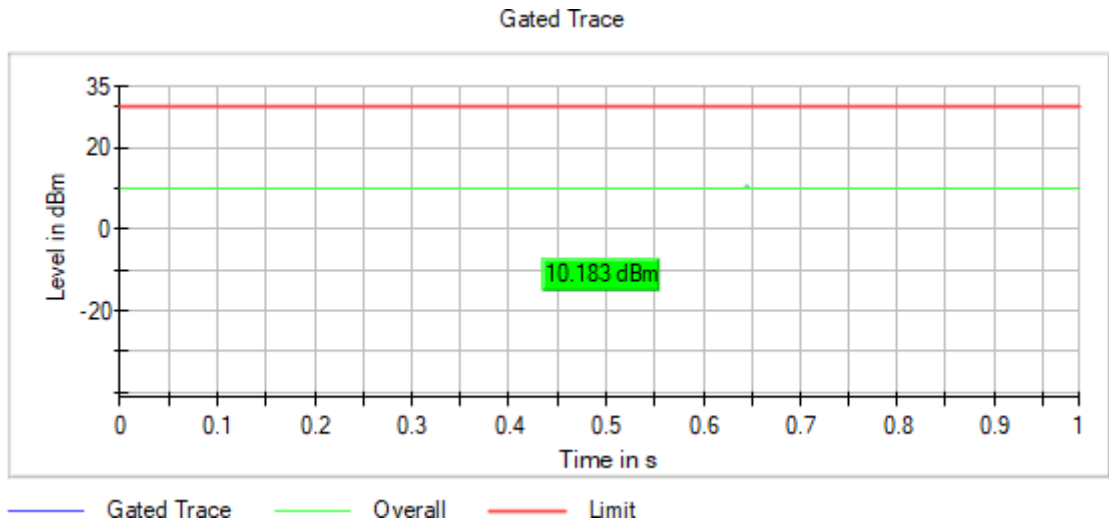
Operation Band MHz = [5150, 5850] Active Port = 1
Frequency MHz = 5785.00000 Modulation = 802.11n HT20 (OFDM MCS0)
TPC = No MIMO Mode = SISO

Images:



Operation Band MHz = [5150, 5850] Active Port = 1
Frequency MHz = 5825.00000 Modulation = 802.11n HT20 (OFDM MCS0)
TPC = No MIMO Mode = SISO

Images:



Tables:

Power Meter Settings

Setting	Instrument Value	Target Value
Measurement Time	1.000 s	1.000 s
Points	1000000	1000000
Time resolution	1.000 μs	1.000 μs

Modulation: 802.11n HT40 (OFDM MCS0)
MIMO Mode: SISO

Results

Maximum declared BTWLAN Antenna gain: 3.8 dBi for UNI-1, 3.5 dBi for UNI-3

Operation Band (MHz)	Port	Freq (MHz)	Avg Power (dBm)	Max EIRP (dBm)
[5150, 5850]	1	5190.00000	12.1	15.9
		5230.00000	11.3	15.1
		5755.00000	12.7	16.2
		5795.00000	14.1	17.6

Maximum declared Mohawk Module Antenna gain: 2.0 dBi for UNI-1, 4.0 dBi for UNI-3

Operation Band (MHz)	Port	Freq (MHz)	Avg Power (dBm)	Max EIRP (dBm)
[5150, 5850]	1	5190.00000	12.1	14.1
		5230.00000	11.3	13.3
		5755.00000	12.7	16.7
		5795.00000	14.1	18.1

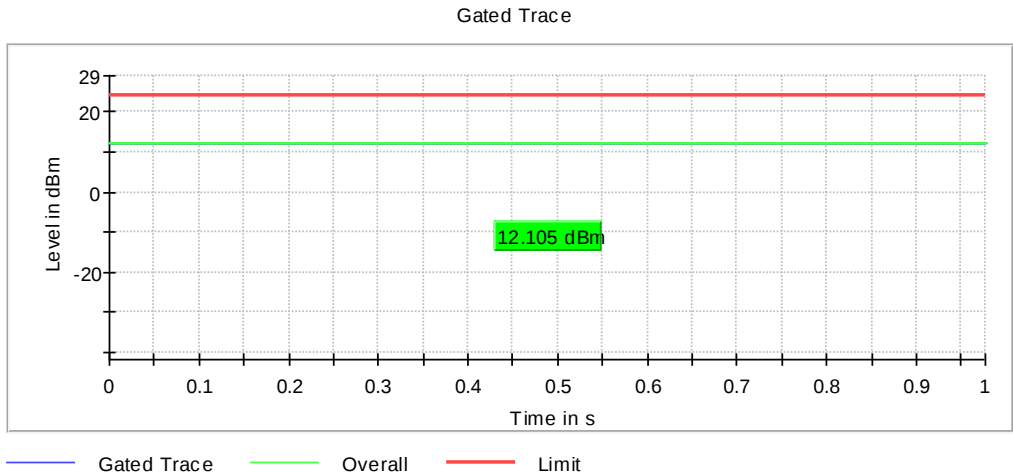
Verdict

Pass

Attachments

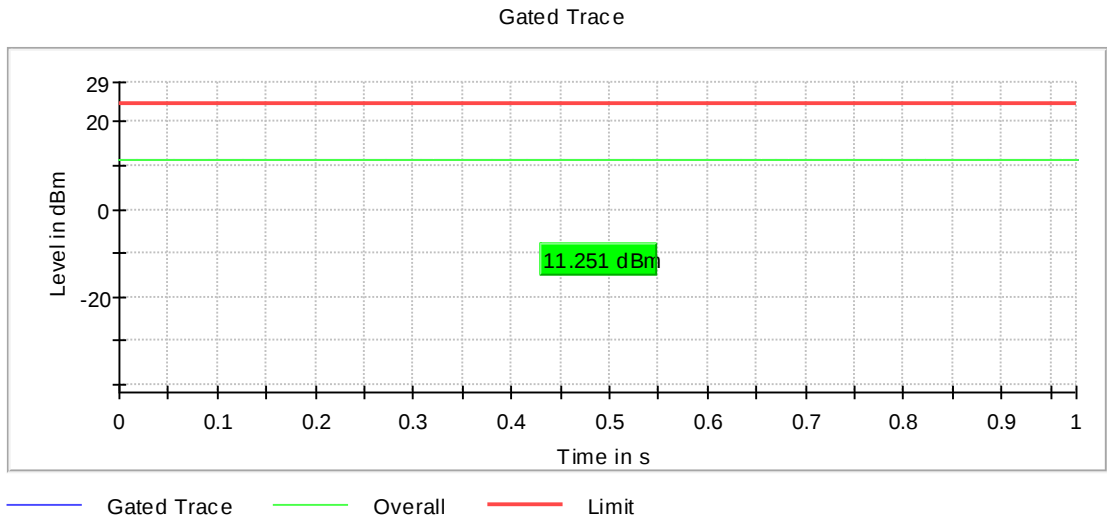
Operation Band MHz = [5150, 5850] Active Port = 1
Frequency MHz = 5190.00000 Modulation = 802.11n HT40 (OFDM MCS0)
TPC = No MIMO Mode = SISO

Images:



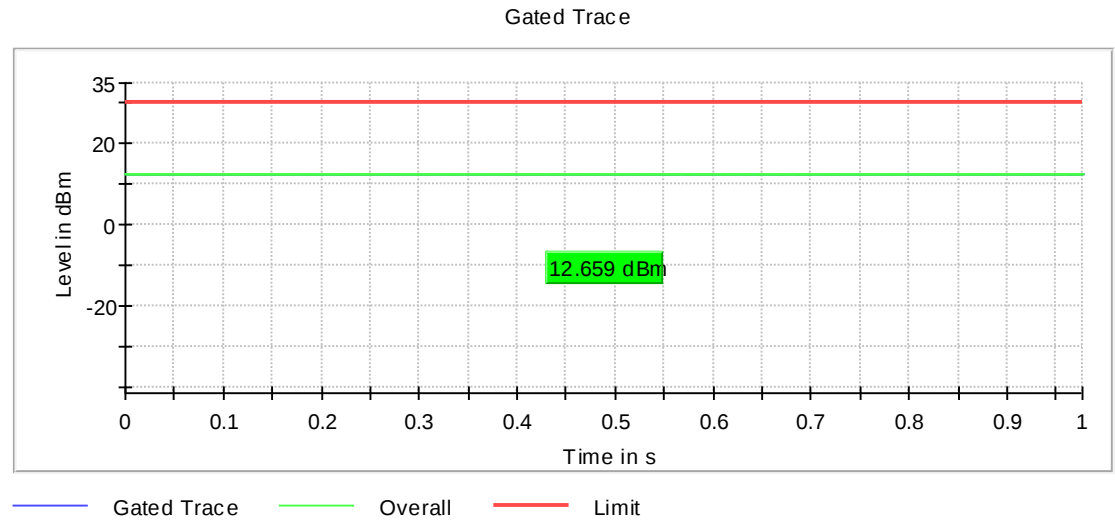
Operation Band MHz = [5150, 5850] Active Port = 1
Frequency MHz = 5230.00000 Modulation = 802.11n HT40 (OFDM MCS0)
TPC = No MIMO Mode = SISO

Images:



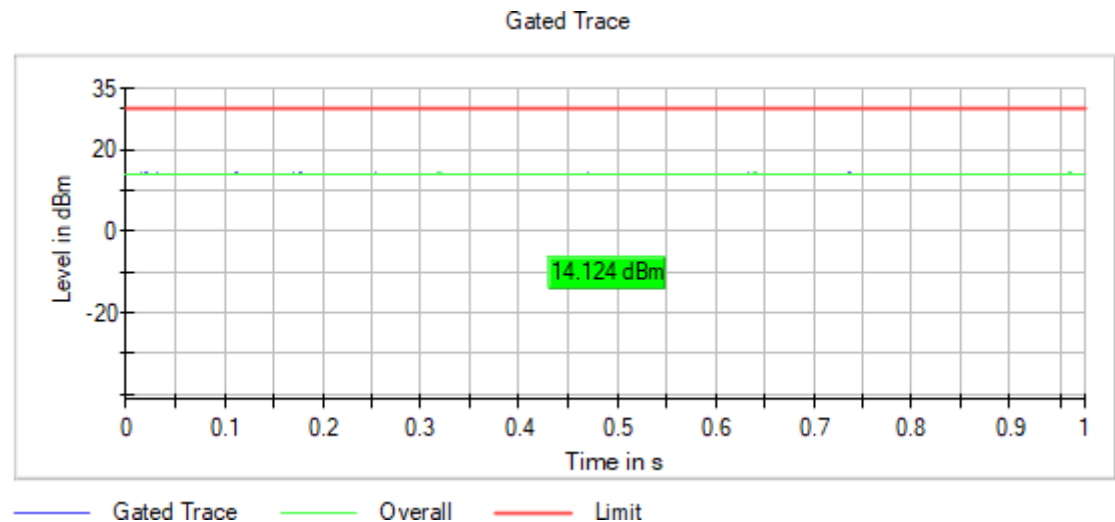
Operation Band MHz = [5150, 5850] Active Port = 1
Frequency MHz = 5755.00000 Modulation = 802.11n HT40 (OFDM MCS0)
TPC = No MIMO Mode = SISO

Images:



Operation Band MHz = [5150, 5850] Active Port = 1
Frequency MHz = 5795.00000 Modulation = 802.11n HT40 (OFDM MCS0)
TPC = No MIMO Mode = SISO

Images:



Tables:

Power Meter Settings

Setting	Instrument Value	Target Value
Measurement Time	1.000 s	1.000 s
Points	1000000	1000000
Time resolution	1.000 μs	1.000 μs

FCC 15.407 (a) / RSS-247 6.2 Maximum Power Spectral Density

Limits

FCC 15.407: The maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

RSS-247: The output power spectral density shall not exceed 30 dBm in any 500 kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the output power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Modulation: 802.11ac VHT20 SS1 (OFDM MCS0)

MIMO Mode: SISO

Results

Operation Band (MHz)	Port	Freq (MHz)	Marker Freq (MHz)	PSD (dBm)
[5150, 5850]	1	5180.00000	5177.227723	1.30
		5200.00000	5197.425743	0.96
		5240.00000	5242.178218	1.79
		5745.00000	5752.524752	-0.08
		5785.00000	5792.524752	-0.94
		5825.00000	5817.475248	-1.33

Verdict

Pass

Attachments

Operation Band MHz = [5150, 5850] Active Port = 1

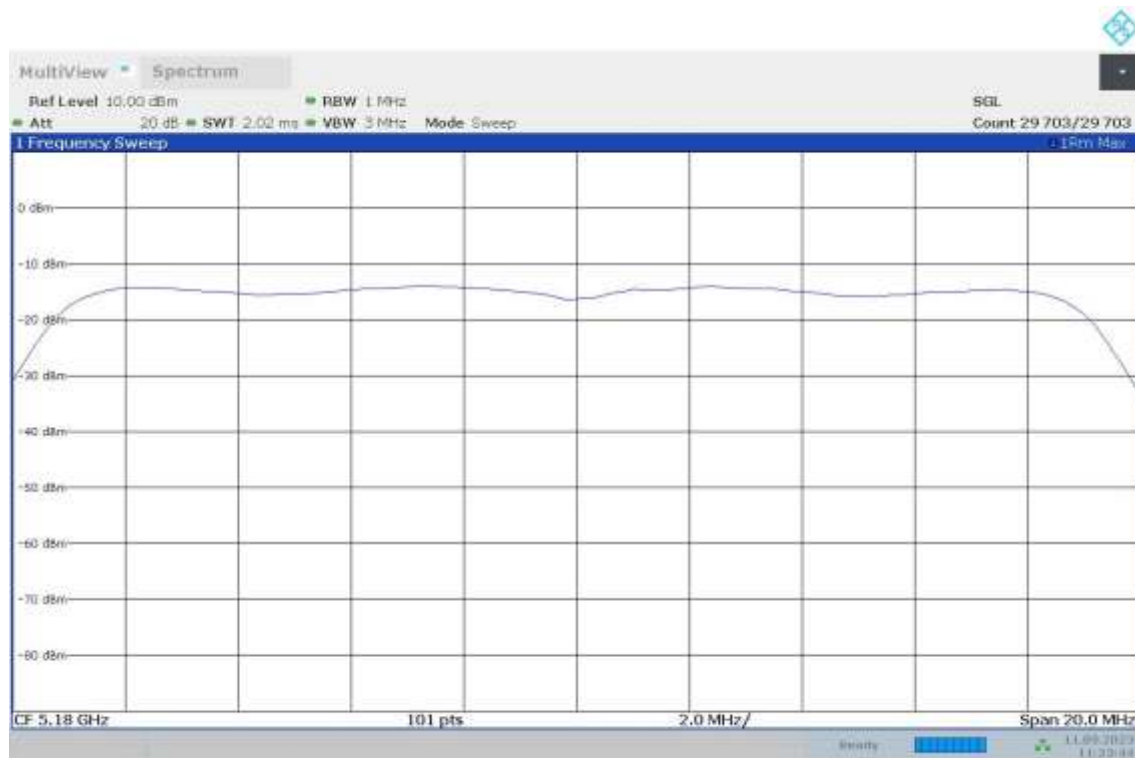
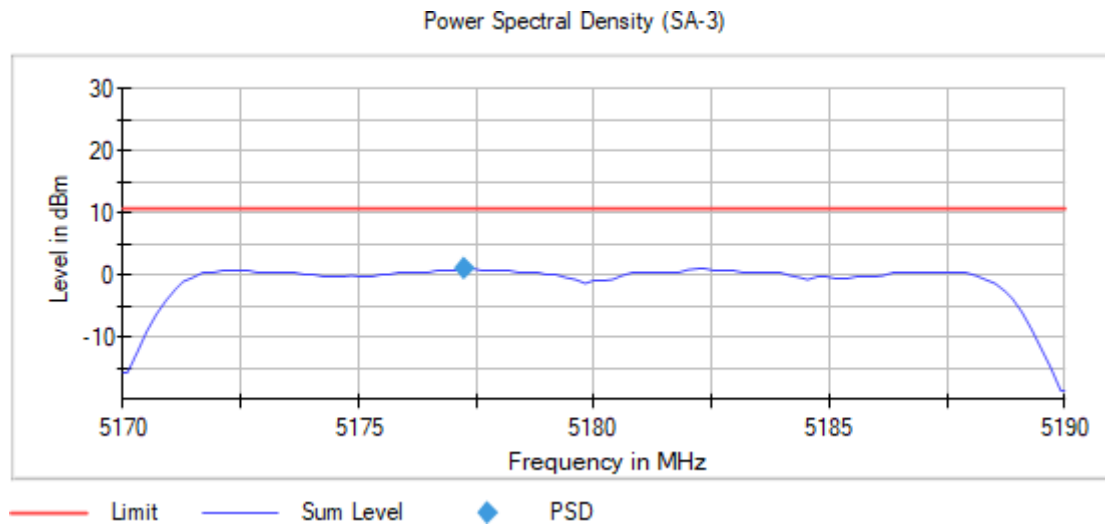
Frequency MHz = 5180.00000

Modulation = 802.11ac VHT20 SS1 (OFDM MCS0)

TPC = No

MIMO Mode = SISO

Images:



Operation Band MHz = [5150, 5850] Active Port = 1

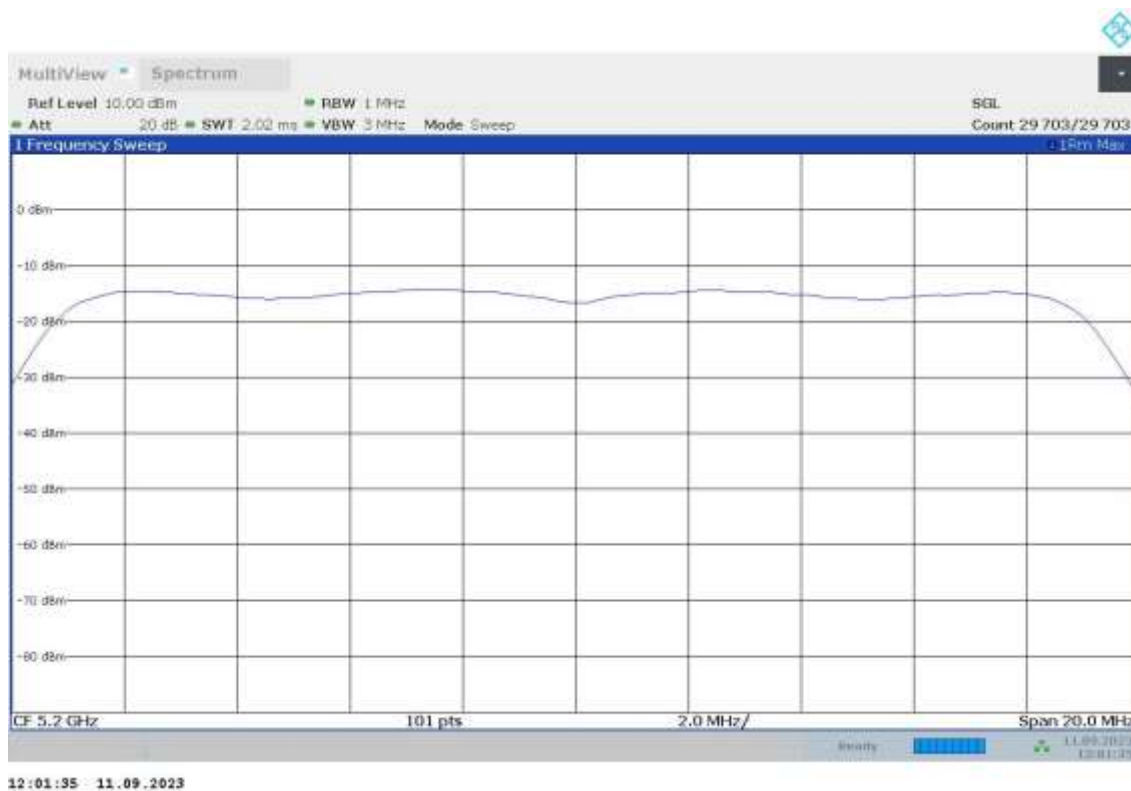
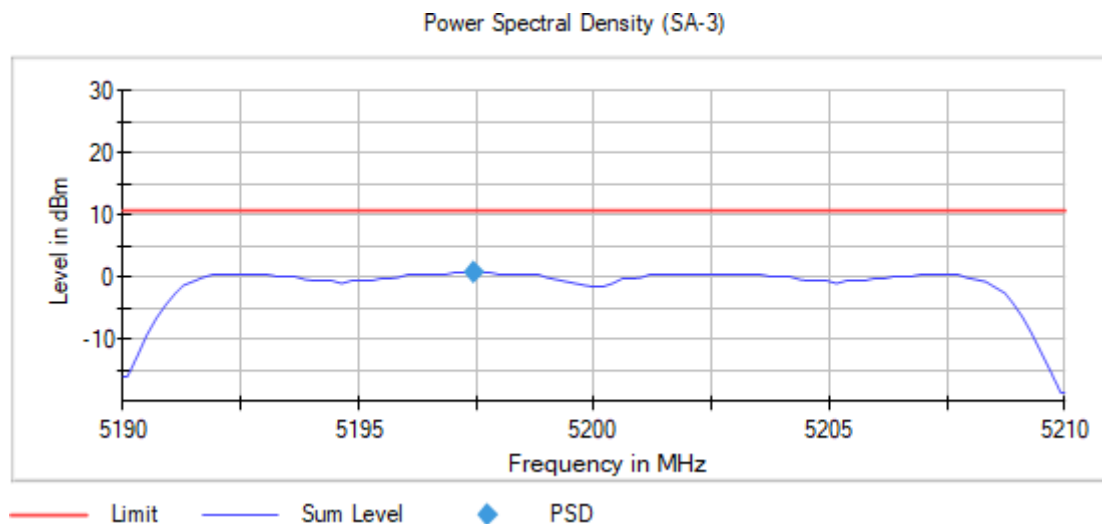
Frequency MHz = 5200.00000

Modulation = 802.11ac VHT20 SS1 (OFDM MCS0)

TPC = No

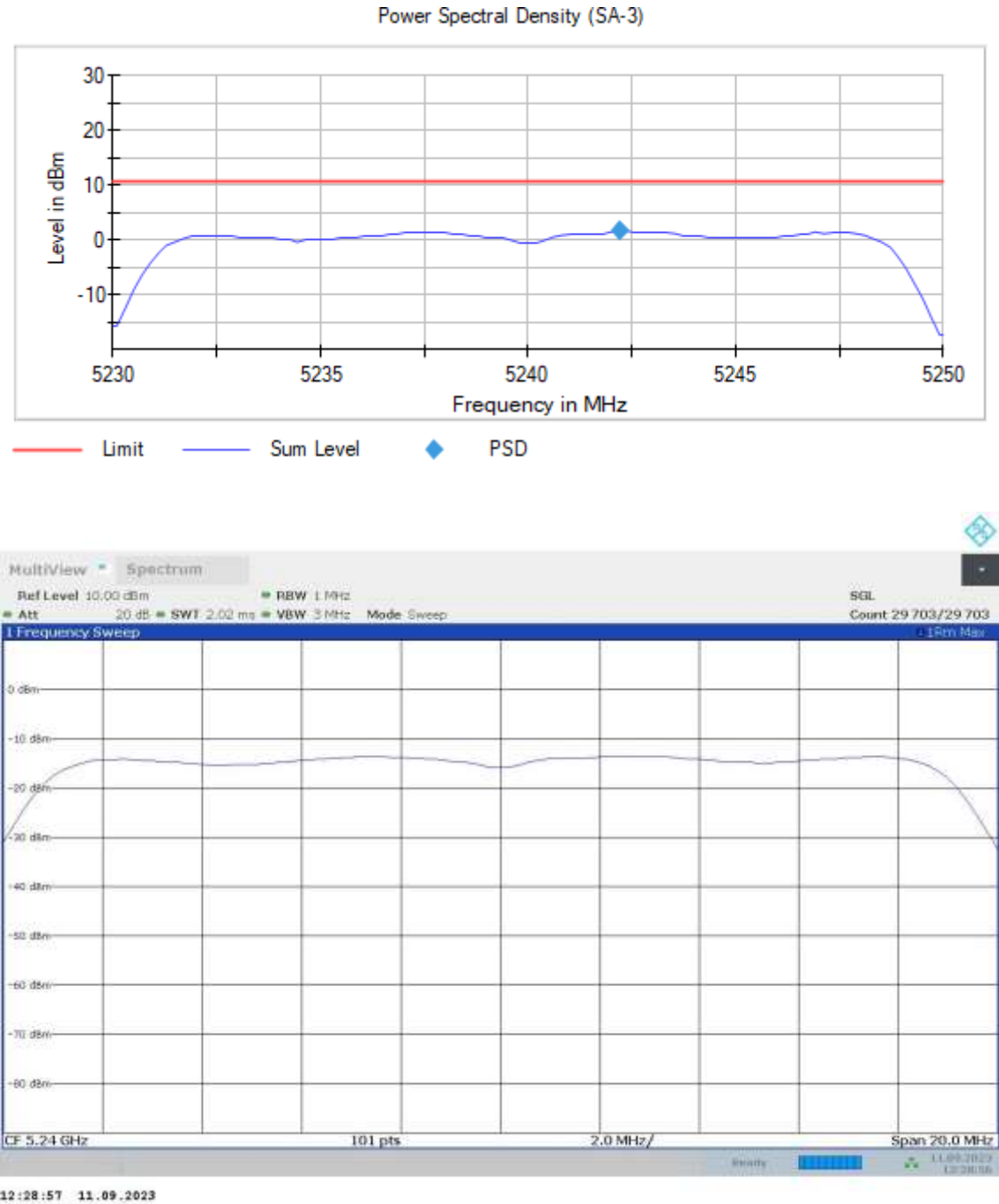
MIMO Mode = SISO

Images:



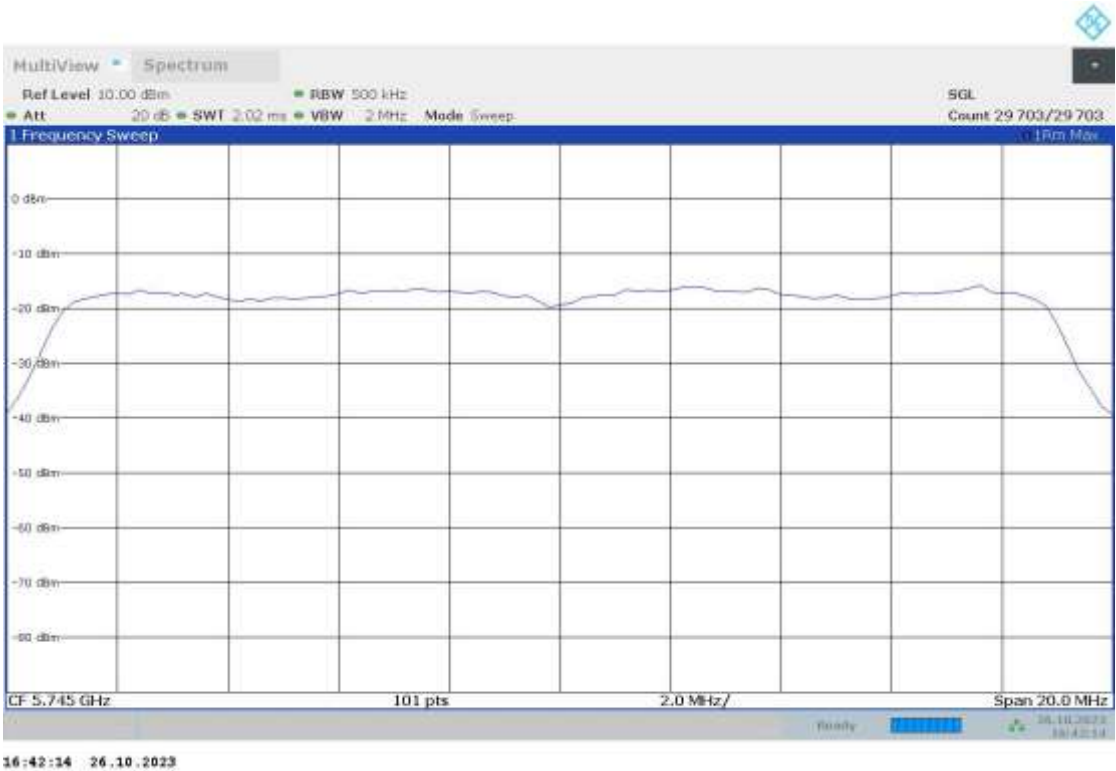
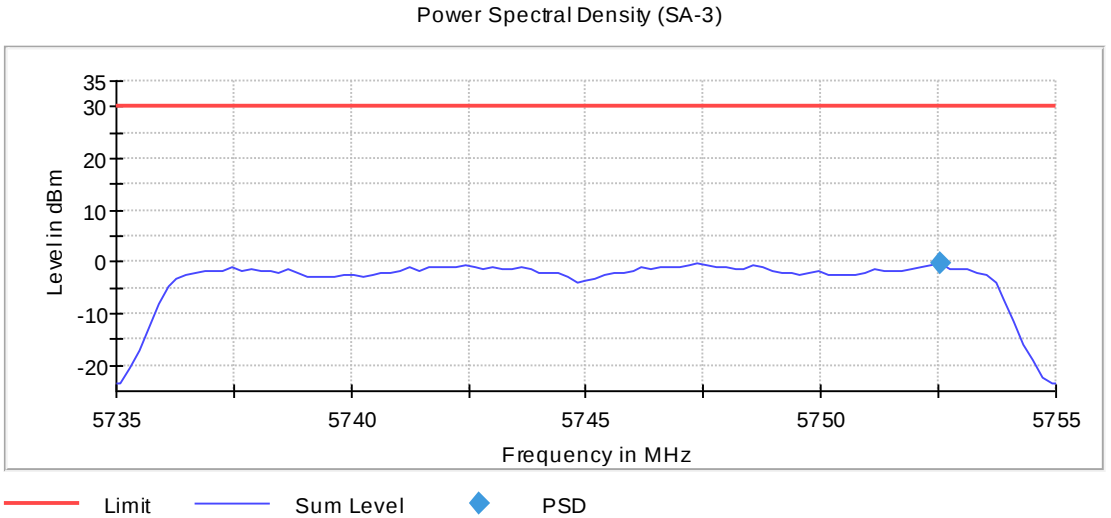
Operation Band MHz = [5150, 5850] Active Port = 1
Frequency MHz = 5240.00000 Modulation = 802.11ac VHT20 SS1 (OFDM MCS0)
TPC = No MIMO Mode = SISO

Images:



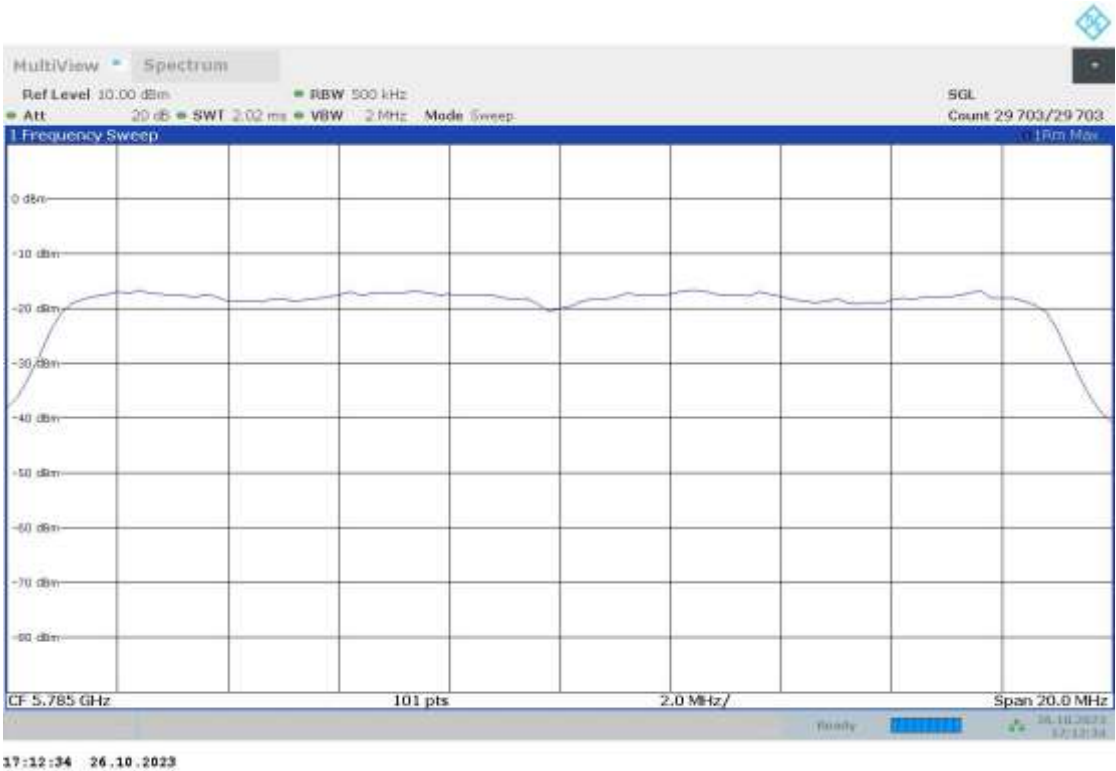
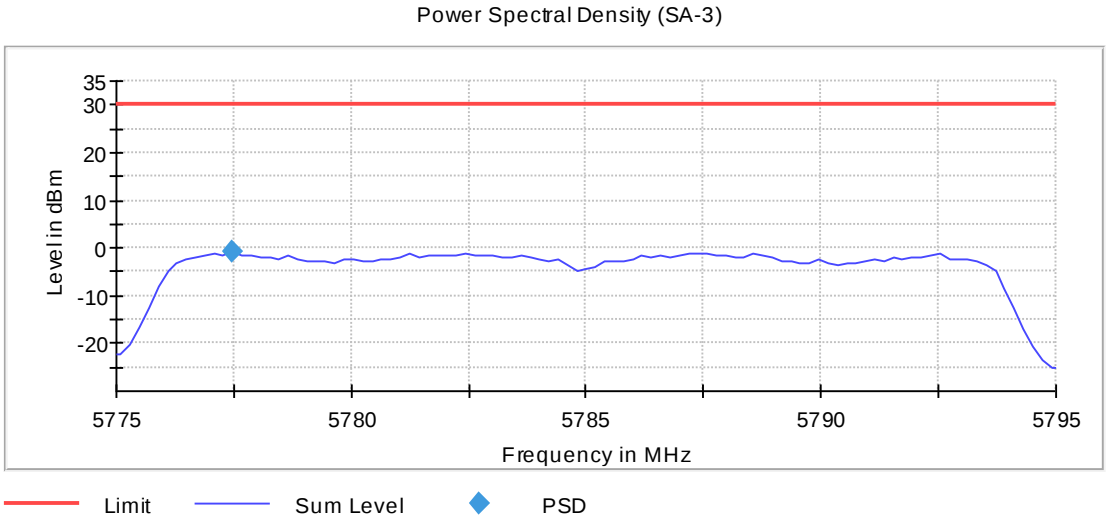
Operation Band MHz = [5150, 5850] Active Port = 1
Frequency MHz = 5745.00000 Modulation = 802.11ac VHT20 SS1 (OFDM MCS0)
TPC = No MIMO Mode = SISO

Images:



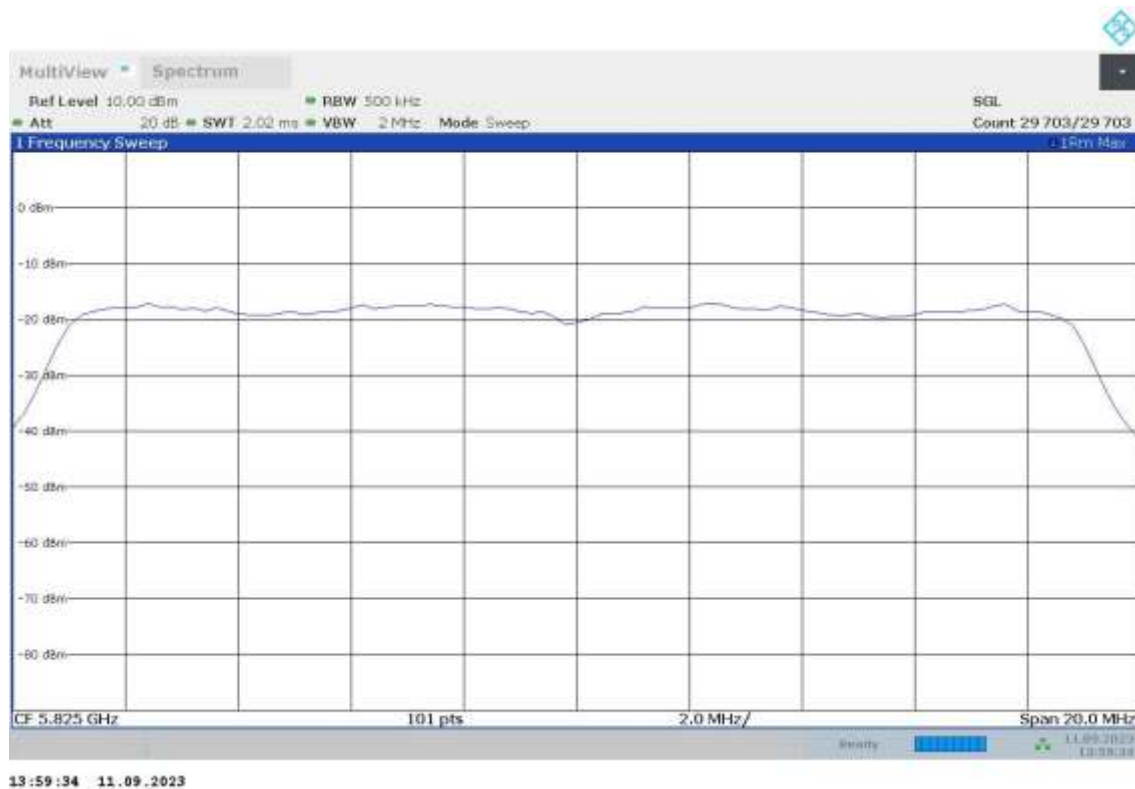
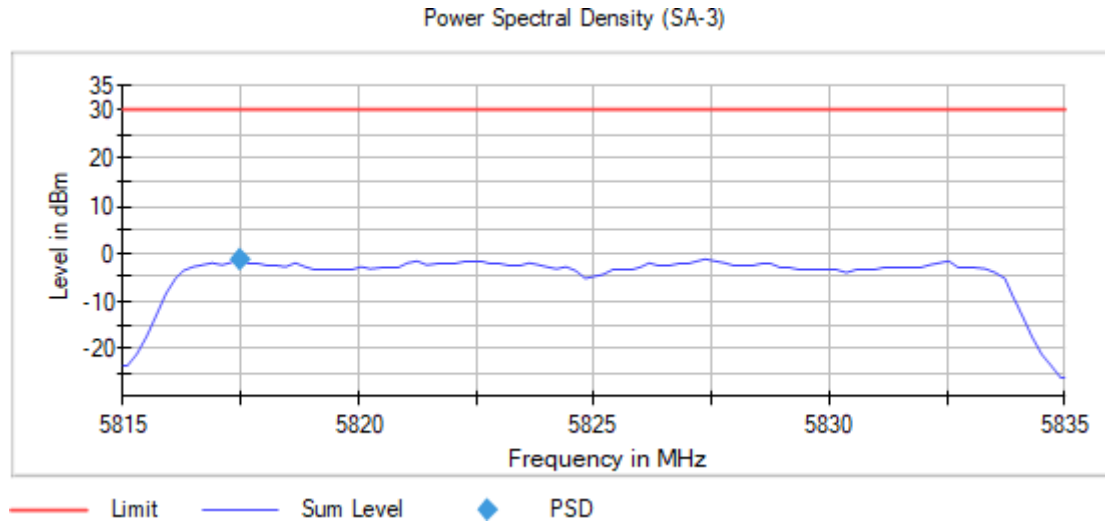
Operation Band MHz = [5150, 5850] Active Port = 1
Frequency MHz = 5785.00000 Modulation = 802.11ac VHT20 SS1 (OFDM MCS0)
TPC = No MIMO Mode = SISO

Images:



Operation Band MHz = [5150, 5850] Active Port = 1
Frequency MHz = 5825.00000 Modulation = 802.11ac VHT20 SS1 (OFDM MCS0)
TPC = No MIMO Mode = SISO

Images:



Modulation: 802.11ax HE20 SS1 (OFDMA MCS0)

MIMO Mode: SISO

Results

Operation Band (MHz)	Port	Freq (MHz)	Marker Freq (MHz)	PSD (dBm)
[5150, 5850]	1	5180.00000	5182.772277	3.49
		5200.00000	5202.574257	4.08
		5240.00000	5242.376238	3.91
		5745.00000	5747.574257	0.62
		5785.00000	5787.376238	-0.35
		5825.00000	5827.376238	1.72

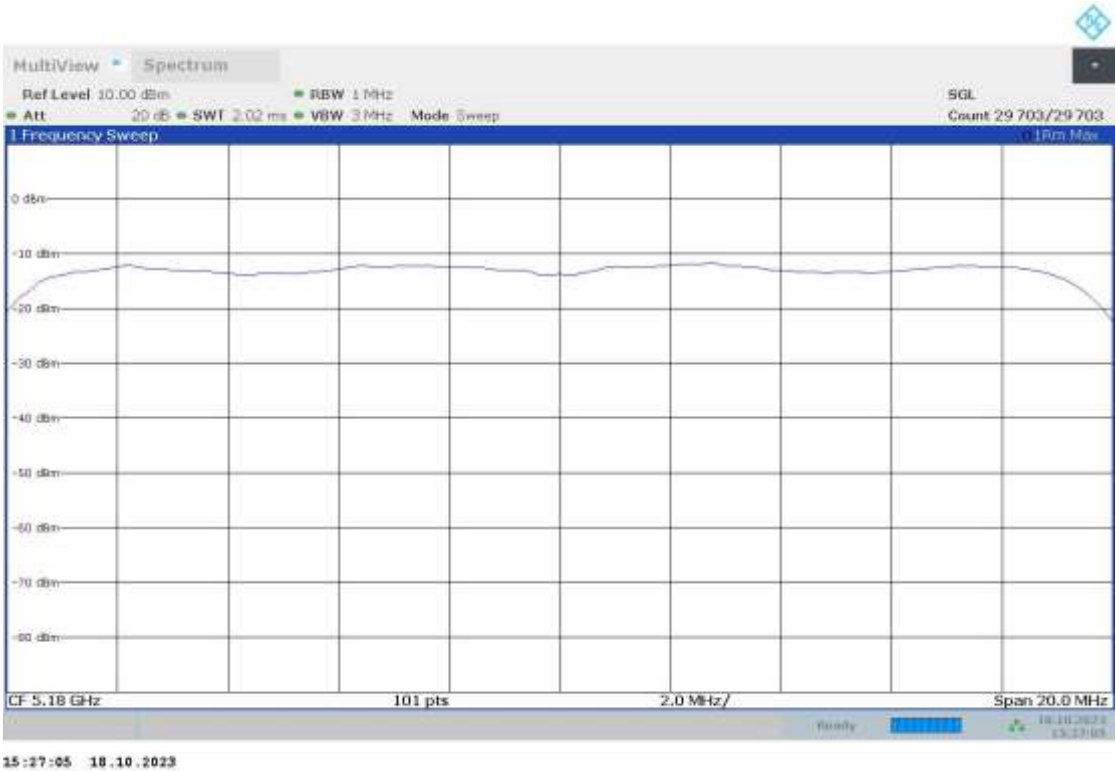
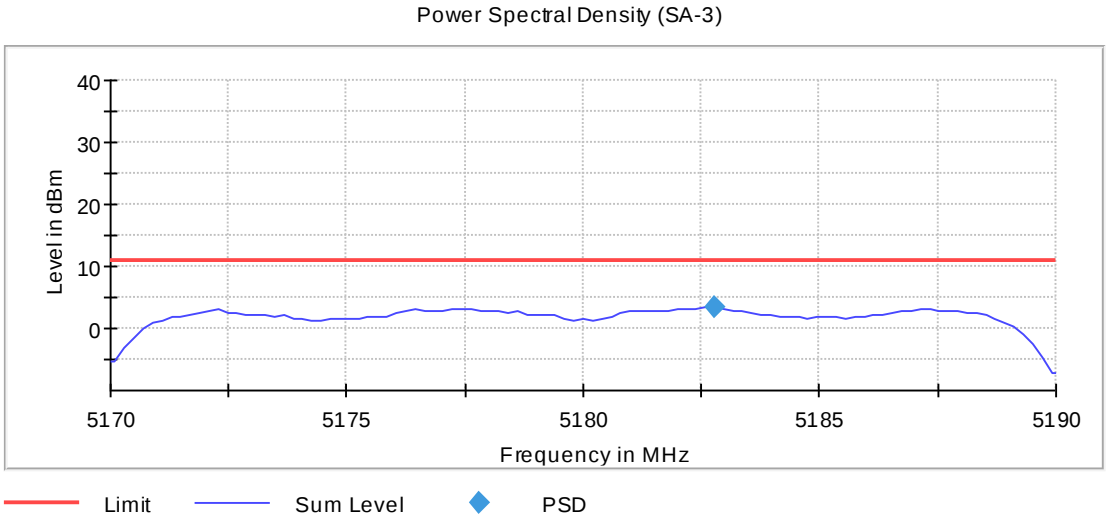
Verdict

Pass

Attachments

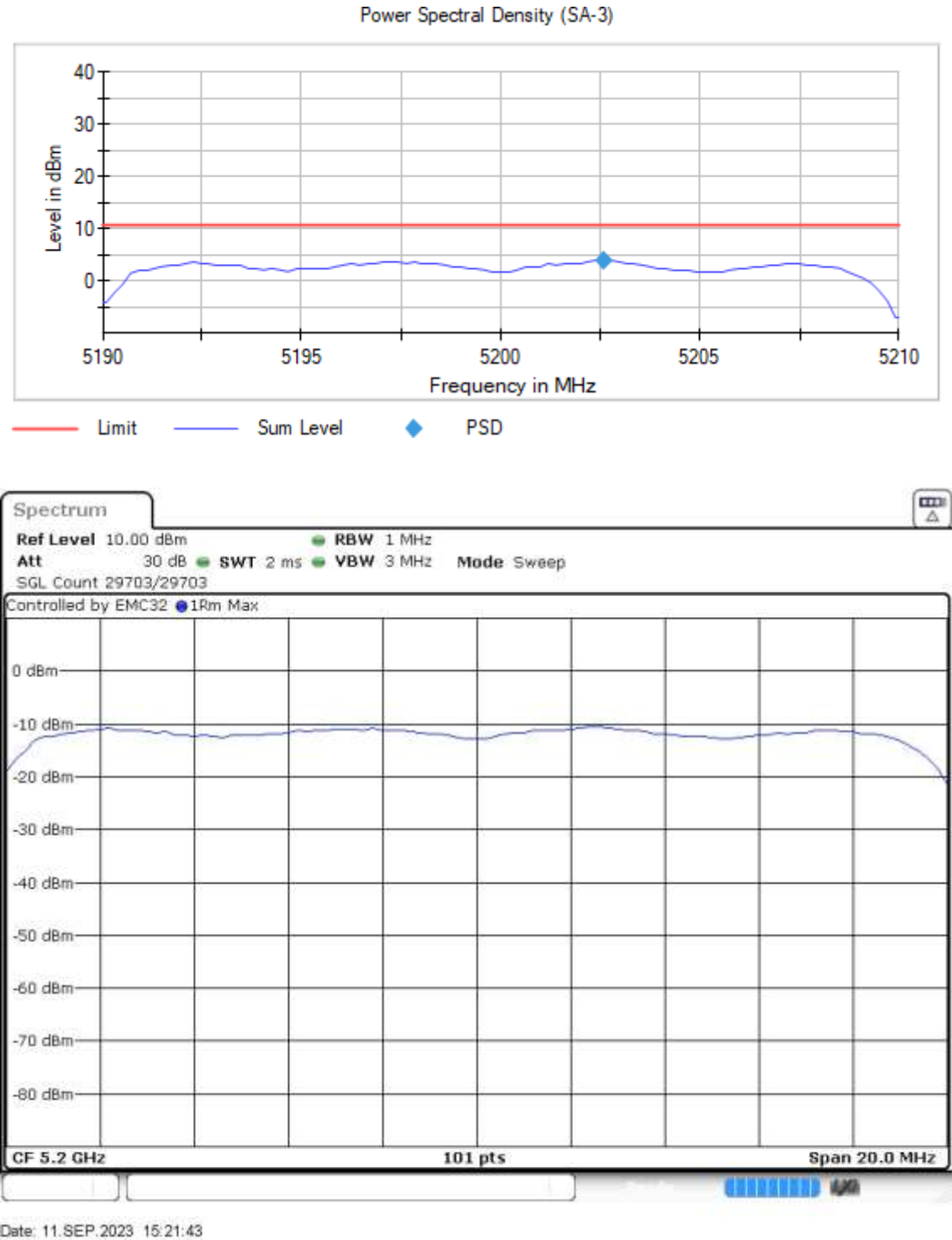
Operation Band MHz = [5150, 5850] Active Port = 1
Frequency MHz = 5180.00000 Modulation = 802.11ax HE20 SS1 (OFDMA MCS0)
TPC = No MIMO Mode = SISO

Images:



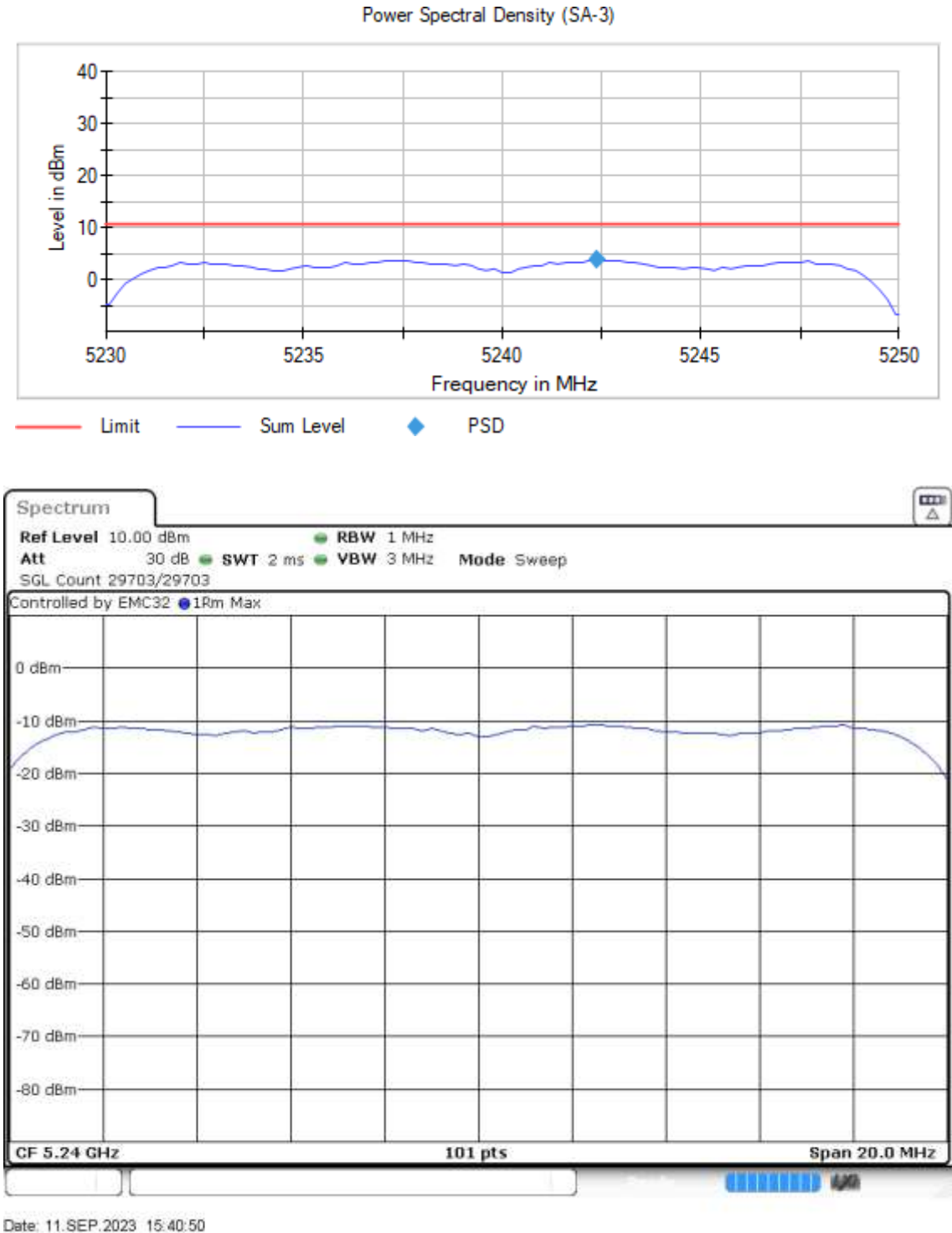
Operation Band MHz = [5150, 5850] Active Port = 1
Frequency MHz = 5200.00000 Modulation = 802.11ax HE20 SS1 (OFDMA MCS0)
TPC = No MIMO Mode = SISO

Images:



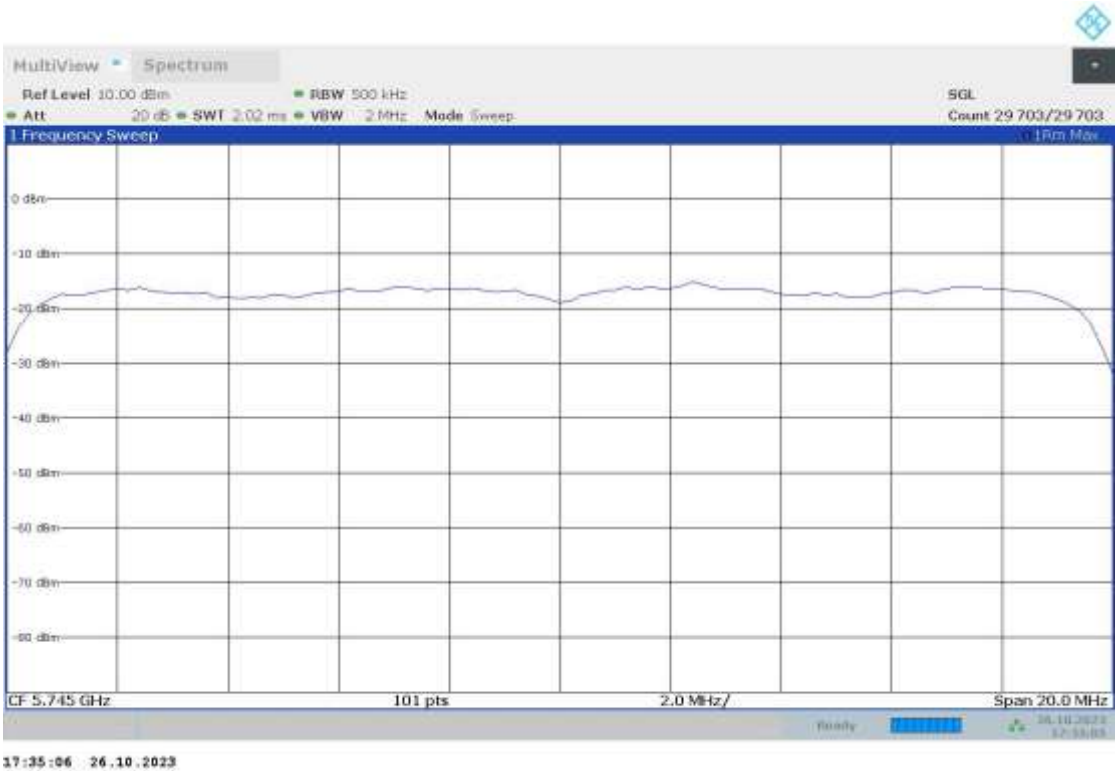
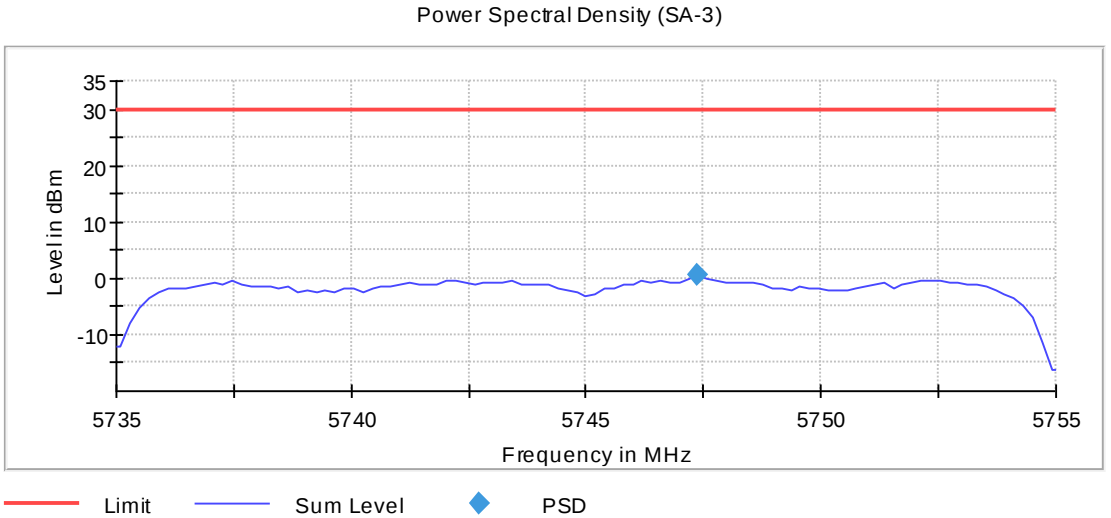
Operation Band MHz = [5150, 5850] Active Port = 1
Frequency MHz = 5240.00000 Modulation = 802.11ax HE20 SS1 (OFDMA MCS0)
TPC = No MIMO Mode = SISO

Images:



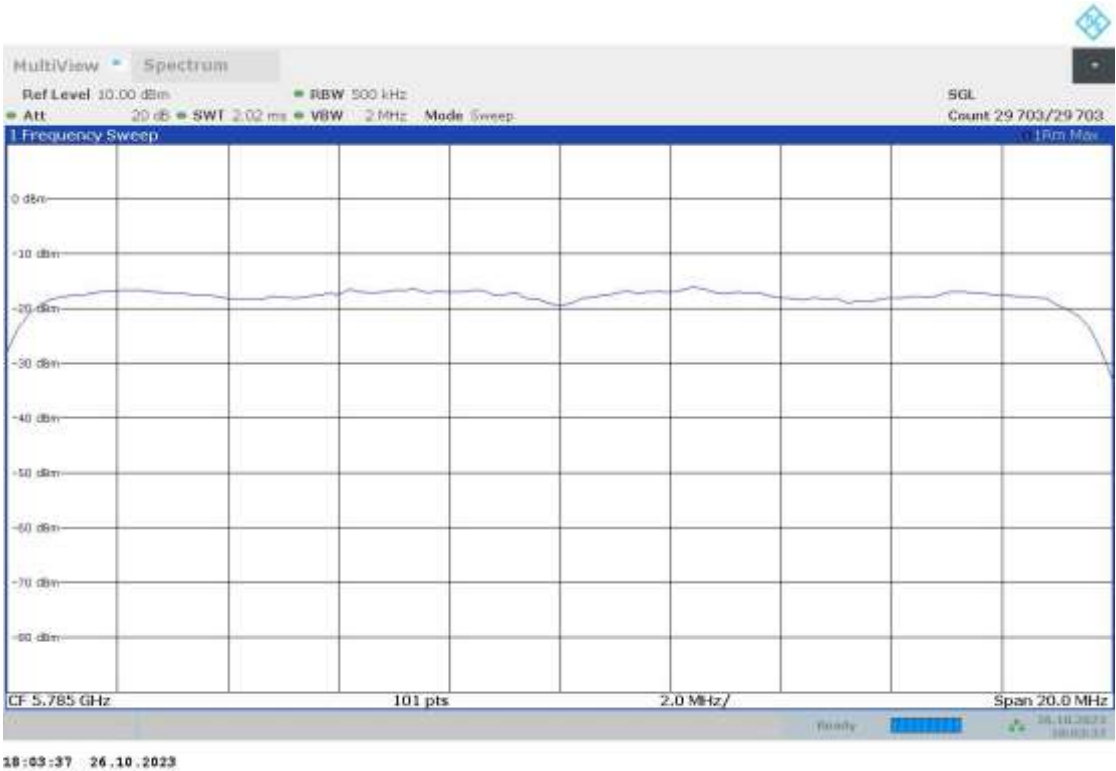
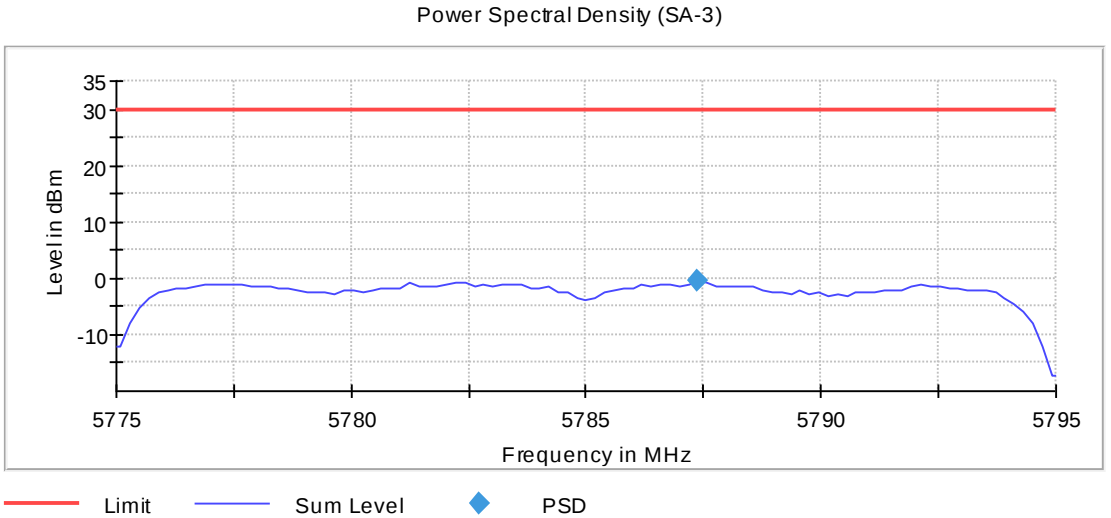
Operation Band MHz = [5150, 5850] Active Port = 1
Frequency MHz = 5745.00000 Modulation = 802.11ax HE20 SS1 (OFDMA MCS0)
TPC = No MIMO Mode = SISO

Images:



Operation Band MHz = [5150, 5850] Active Port = 1
Frequency MHz = 5785.00000 Modulation = 802.11ax HE20 SS1 (OFDMA MCS0)
TPC = No MIMO Mode = SISO

Images:



Operation Band MHz = [5150, 5850] Active Port = 1

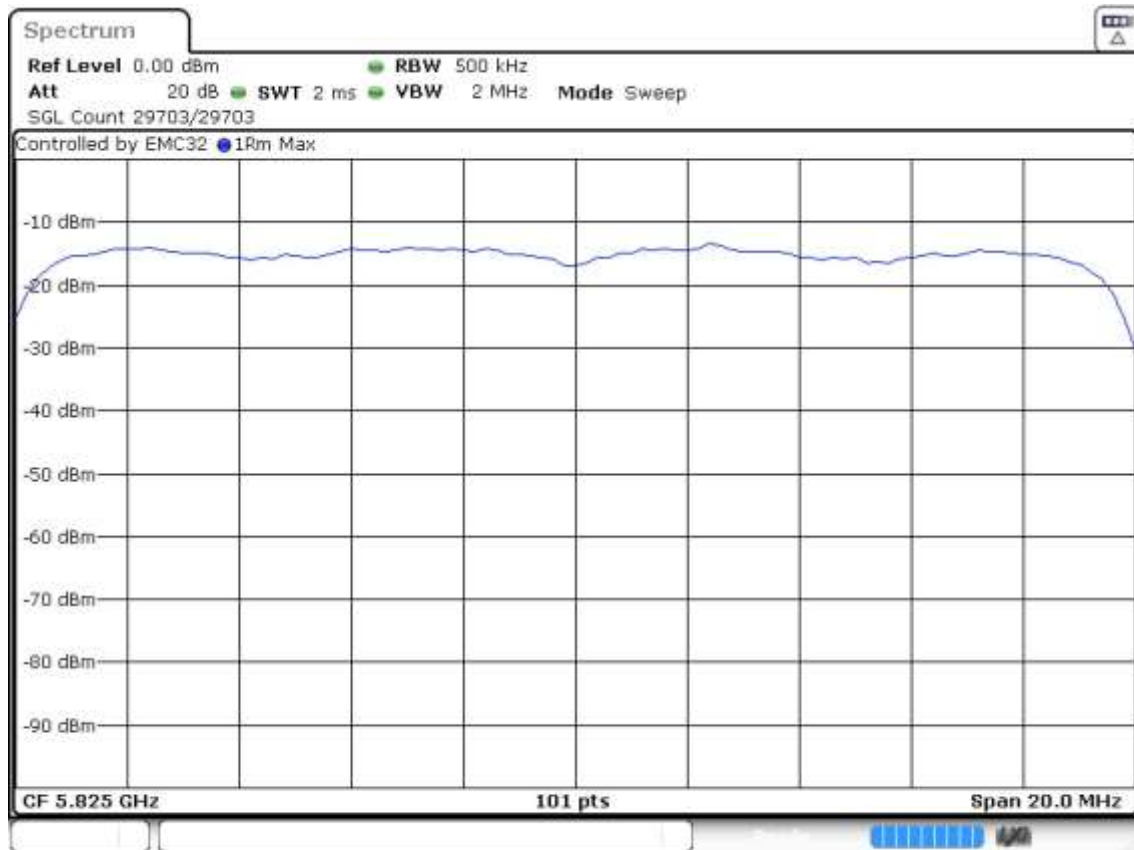
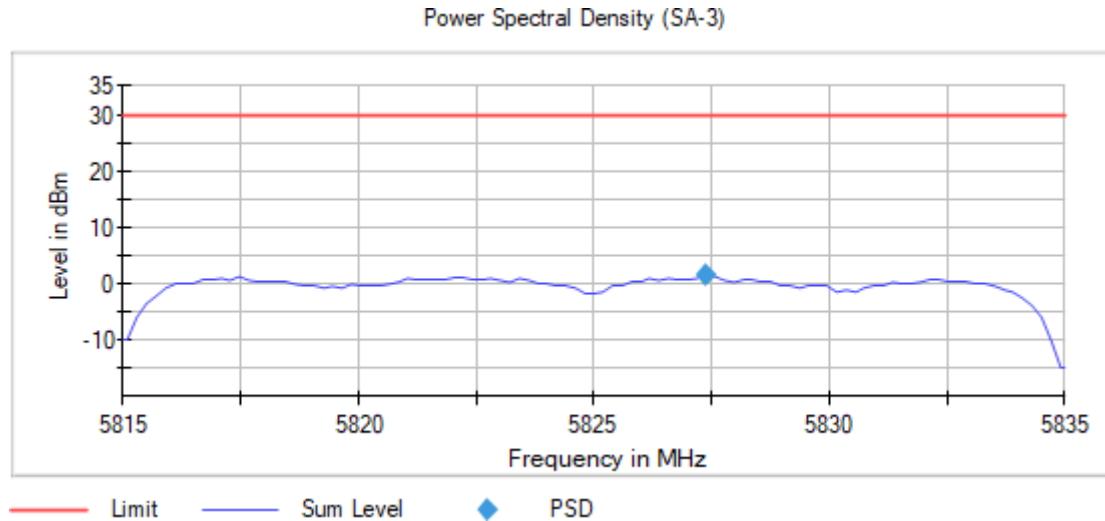
Frequency MHz = 5825.00000

Modulation = 802.11ax HE20 SS1 (OFDMA MCS0)

TPC = No

MIMO Mode = SISO

Images:



Date: 11.SEP.2023 16:53:30

Modulation: 802.11ac VHT40 SS1 (OFDM MCS0)

MIMO Mode: SISO

Results

Operation Band (MHz)	Port	Freq (MHz)	Marker Freq (MHz)	PSD (dBm)
[5150, 5850]	1	5190.00000	5173.762376	-1.51
		5230.00000	5245.049505	-1.21
		5755.00000	5758.875000	-2.40
		5795.00000	5798.875000	-2.35

Verdict

Pass

Attachments

Operation Band MHz = [5150, 5850] Active Port = 1

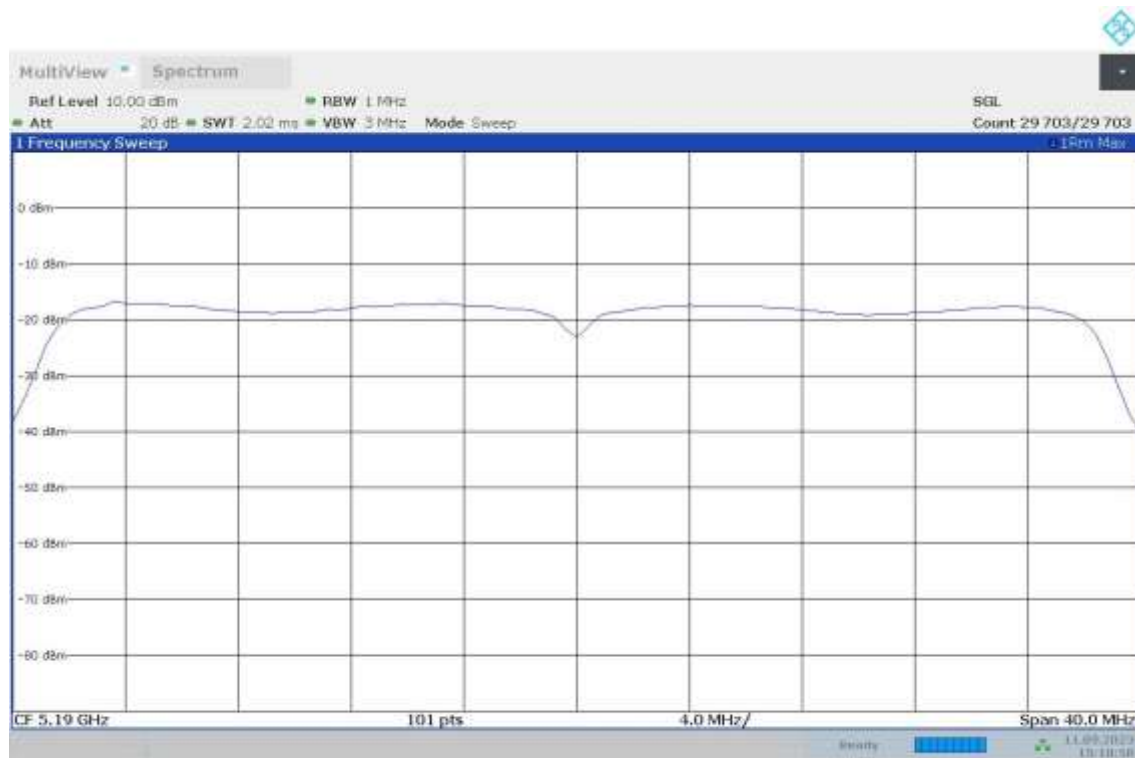
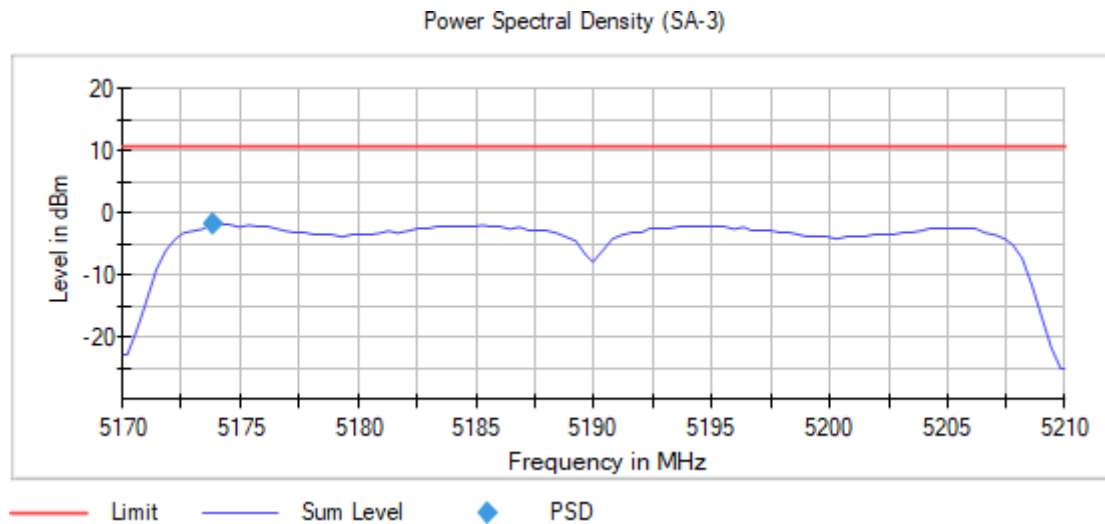
Frequency MHz = 5190.00000

Modulation = 802.11ac VHT40 SS1 (OFDM MCS0)

TPC = No

MIMO Mode = SISO

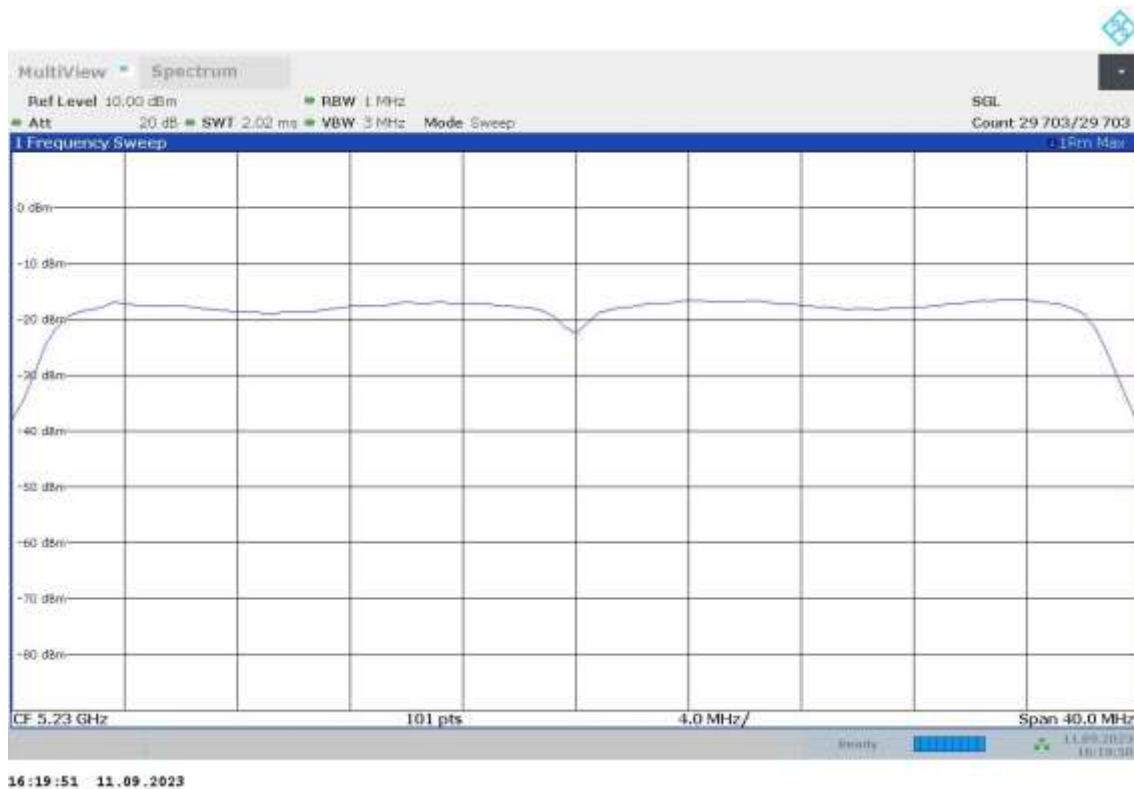
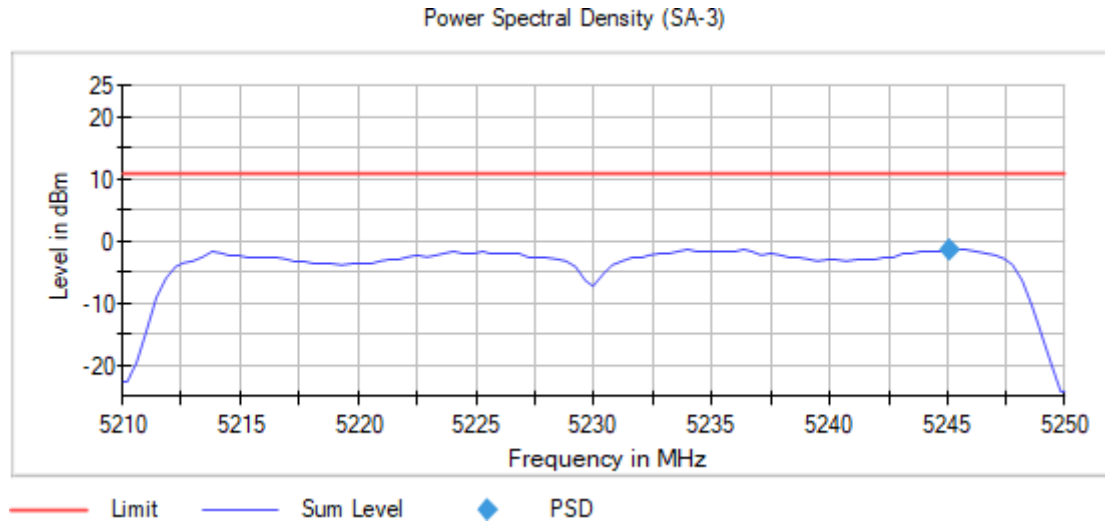
Images:



15:10:58 11.09.2023

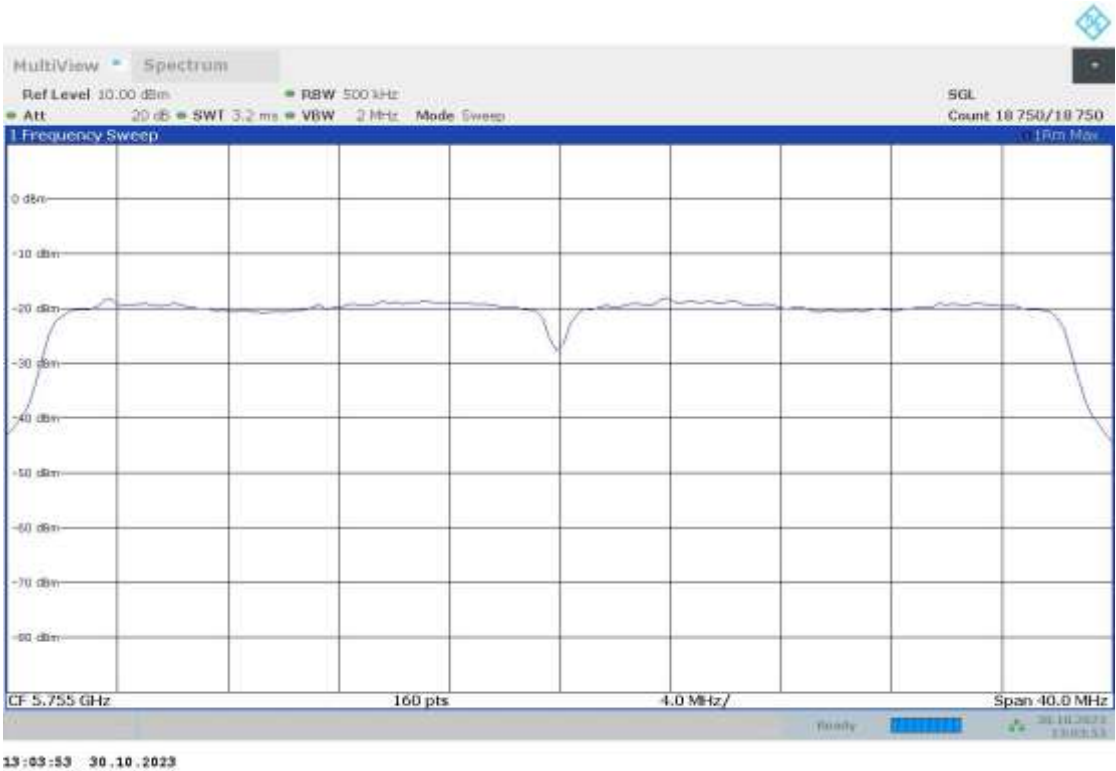
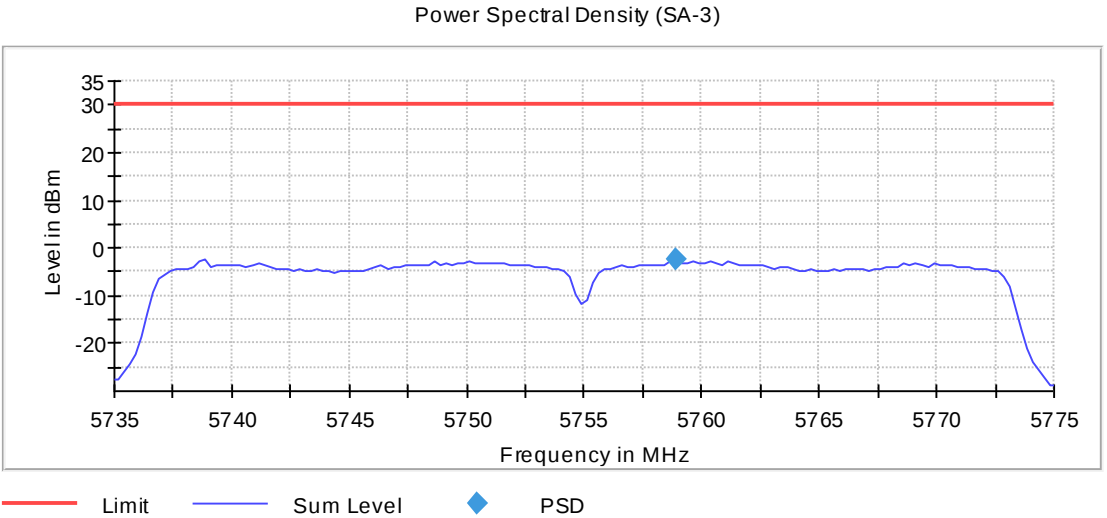
Operation Band MHz = [5150, 5850] Active Port = 1
Frequency MHz = 5230.00000 Modulation = 802.11ac VHT40 SS1 (OFDM MCS0)
TPC = No MIMO Mode = SISO

Images:



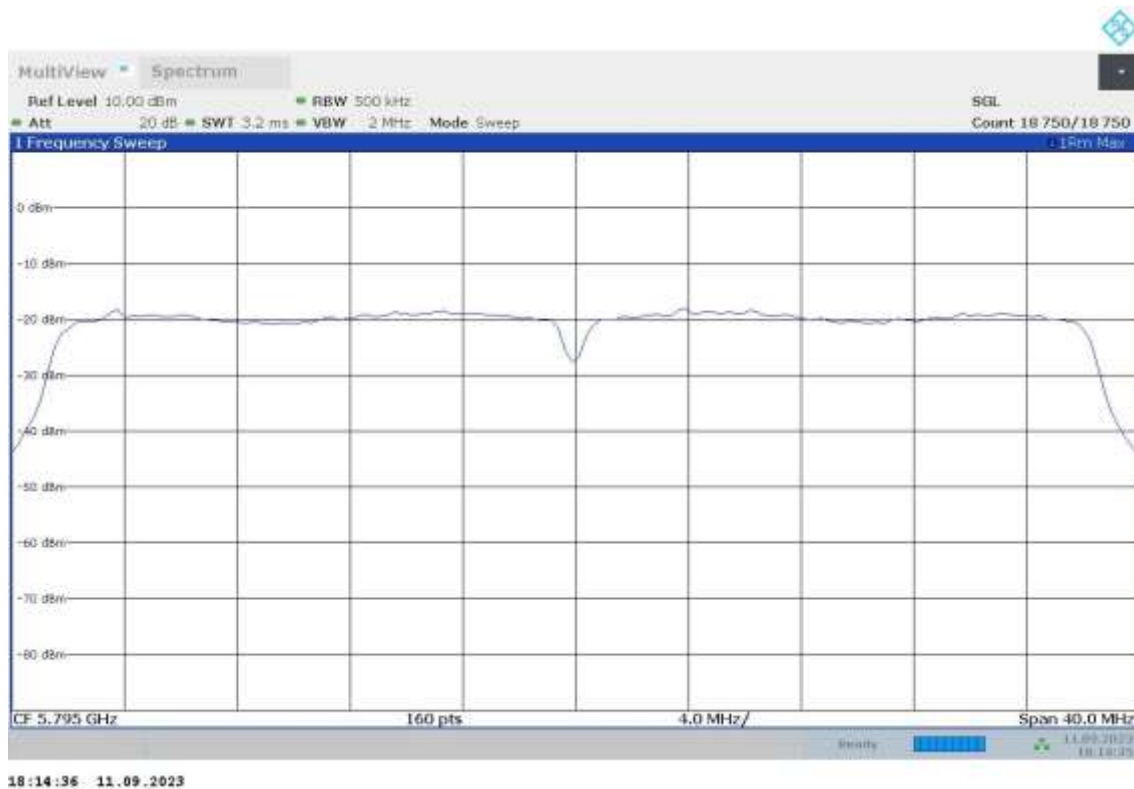
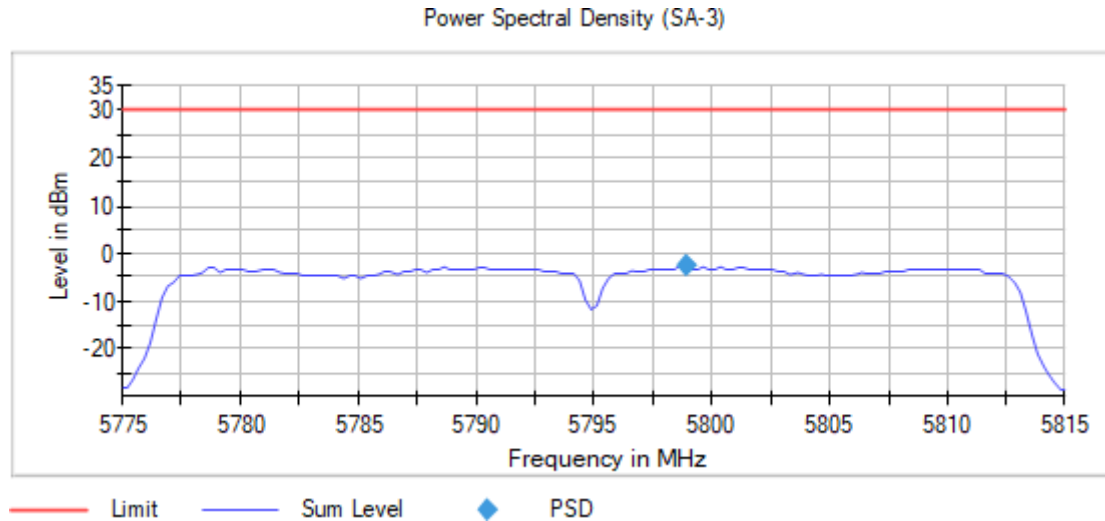
Operation Band MHz = [5150, 5850] Active Port = 1
Frequency MHz = 5755.00000 Modulation = 802.11ac VHT40 SS1 (OFDM MCS0)
TPC = No MIMO Mode = SISO

Images:



Operation Band MHz = [5150, 5850] Active Port = 1
Frequency MHz = 5795.00000 Modulation = 802.11ac VHT40 SS1 (OFDM MCS0)
TPC = No MIMO Mode = SISO

Images:



Modulation: 802.11ax HE40 SS1 (OFDMA MCS0)

MIMO Mode: SISO

Results

Operation Band (MHz)	Port	Freq (MHz)	Marker Freq (MHz)	PSD (dBm)
[5150, 5850]	1	5190.00000	5194.752475	-0.36
		5230.00000	5234.752475	-1.55
		5755.00000	5749.875000	-3.04
		5795.00000	5809.875000	-1.04

Verdict

Pass

Attachments

Operation Band MHz = [5150, 5850] Active Port = 1

Frequency MHz = 5190.00000

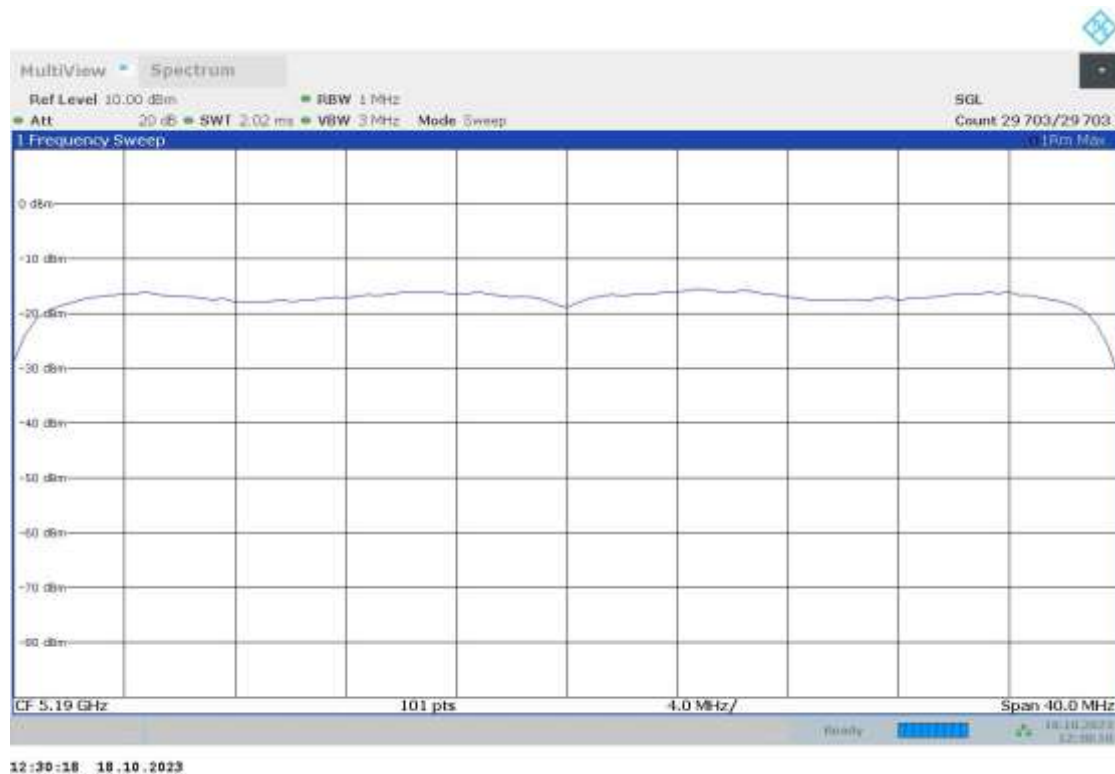
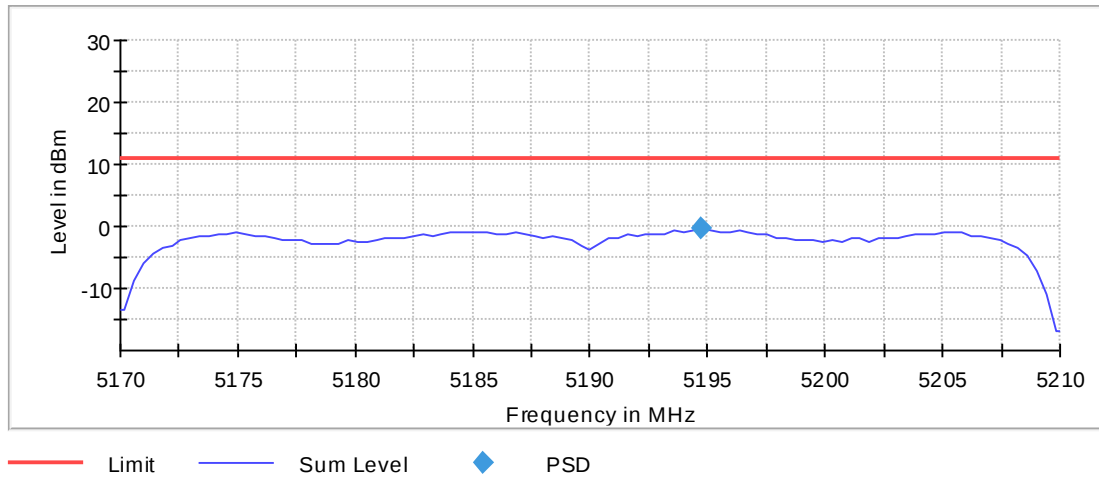
Modulation = 802.11ax HE40 SS1 (OFDMA MCS0)

TPC = No

MIMO Mode = SISO

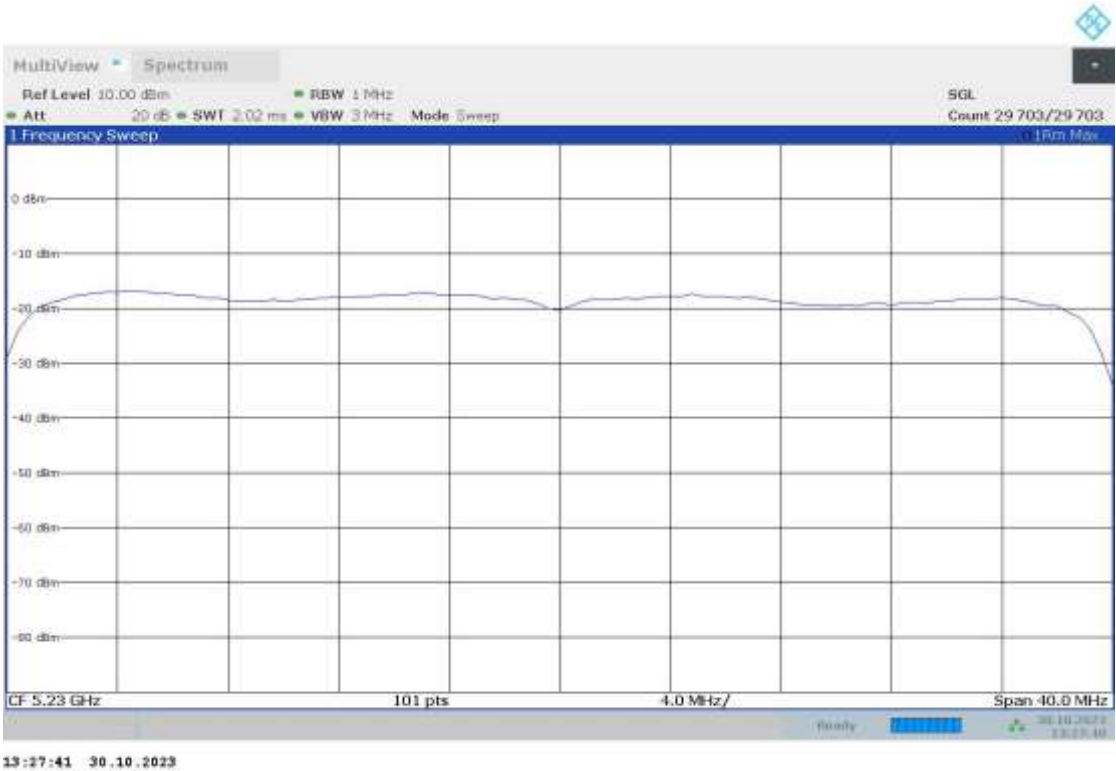
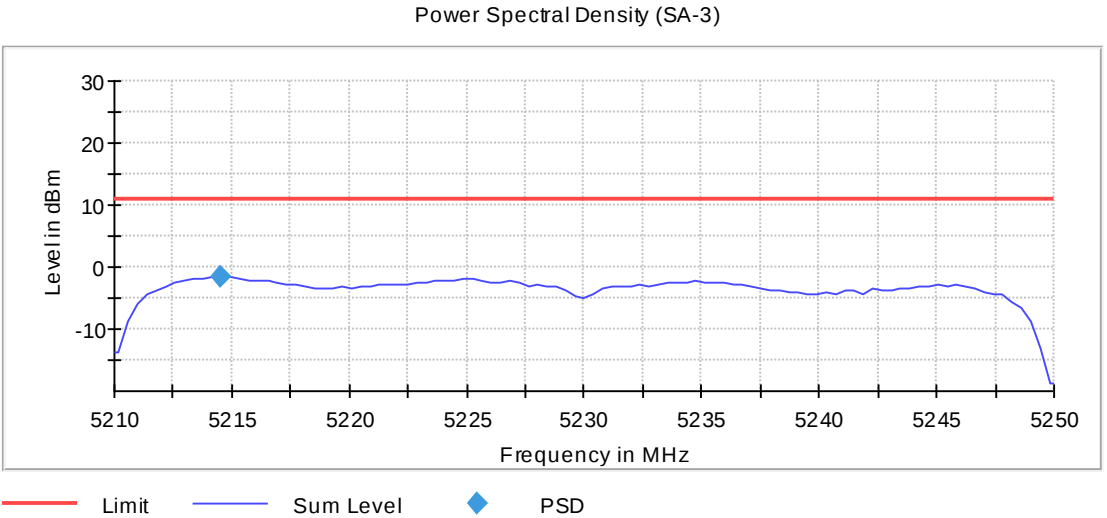
Images:

Power Spectral Density (SA-3)



Operation Band MHz = [5150, 5850] Active Port = 1
Frequency MHz = 5230.00000 Modulation = 802.11ax HE40 SS1 (OFDMA MCS0)
TPC = No MIMO Mode = SISO

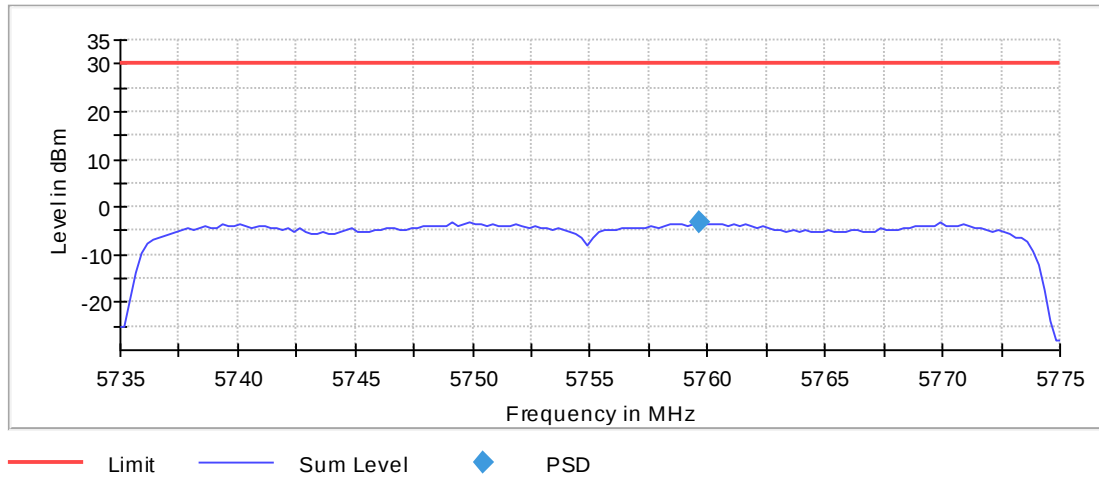
Images:



Operation Band MHz = [5150, 5850] Active Port = 1
Frequency MHz = 5755.00000 Modulation = 802.11ax HE40 SS1 (OFDMA MCS0)
TPC = No MIMO Mode = SISO

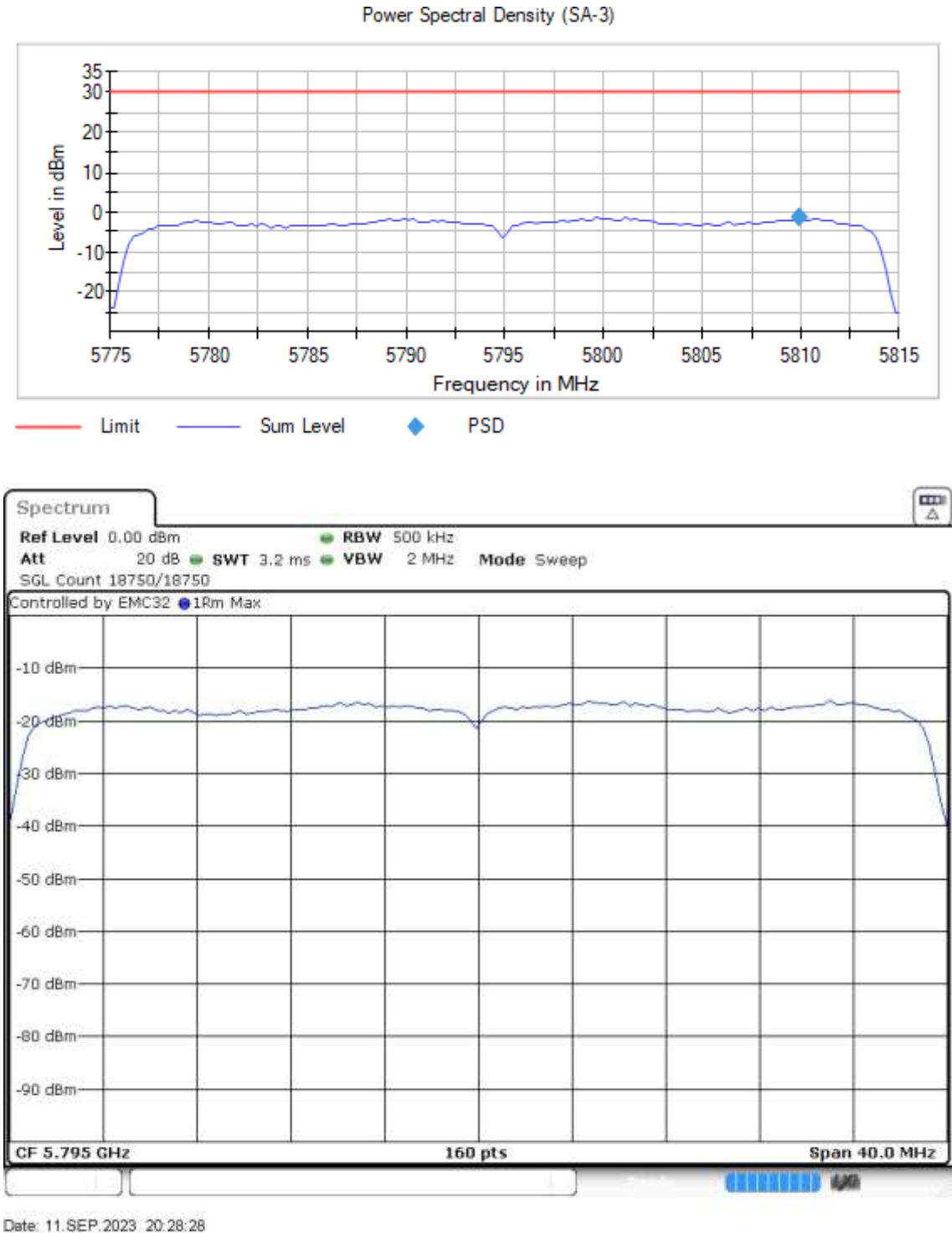
Images:

Power Spectral Density (SA-3)



Operation Band MHz = [5150, 5850] Active Port = 1
Frequency MHz = 5795.00000 Modulation = 802.11ax HE40 SS1 (OFDMA MCS0)
TPC = No MIMO Mode = SISO

Images:



Modulation: 802.11ac VHT80 SS1 (OFDM MCS0)

MIMO Mode: SISO

Results

Operation Band (MHz)	Port	Freq (MHz)	Marker Freq (MHz)	PSD (dBm)
[5150, 5850]	1	5210.00000	5198.250000	-4.77
		5775.00000	5787.375000	-4.99

Verdict

Pass

Attachments

Operation Band MHz = [5150, 5850] Active Port = 1

Frequency MHz = 5210.00000

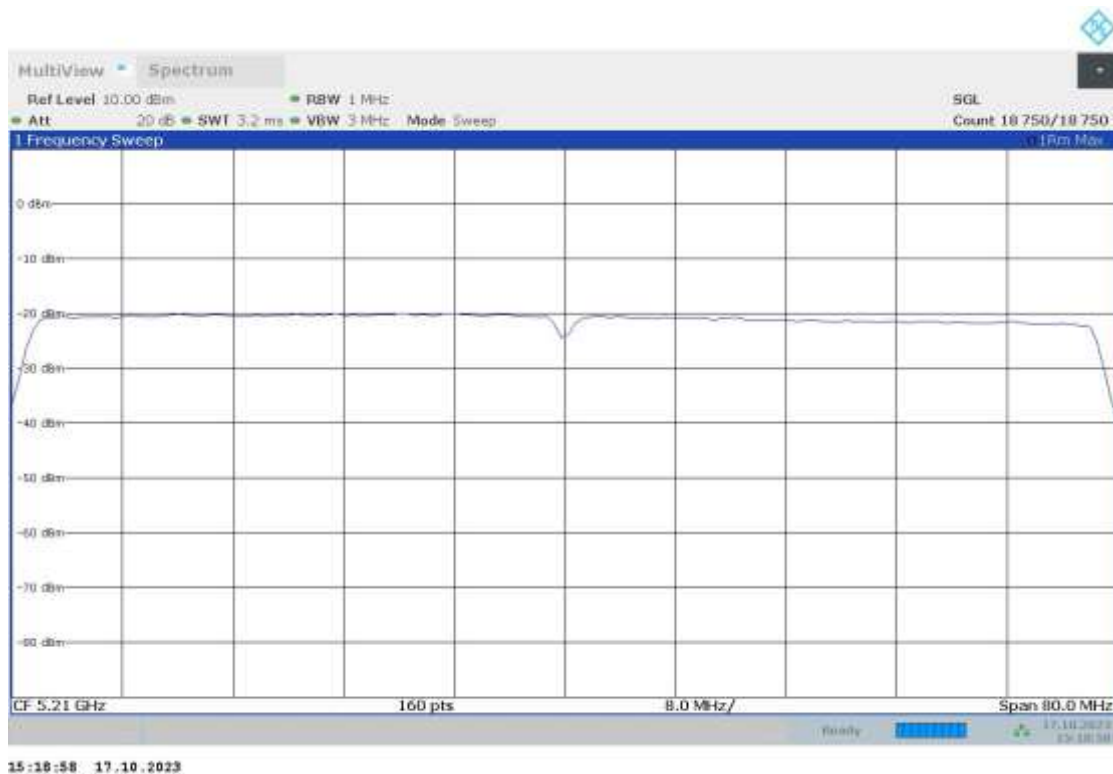
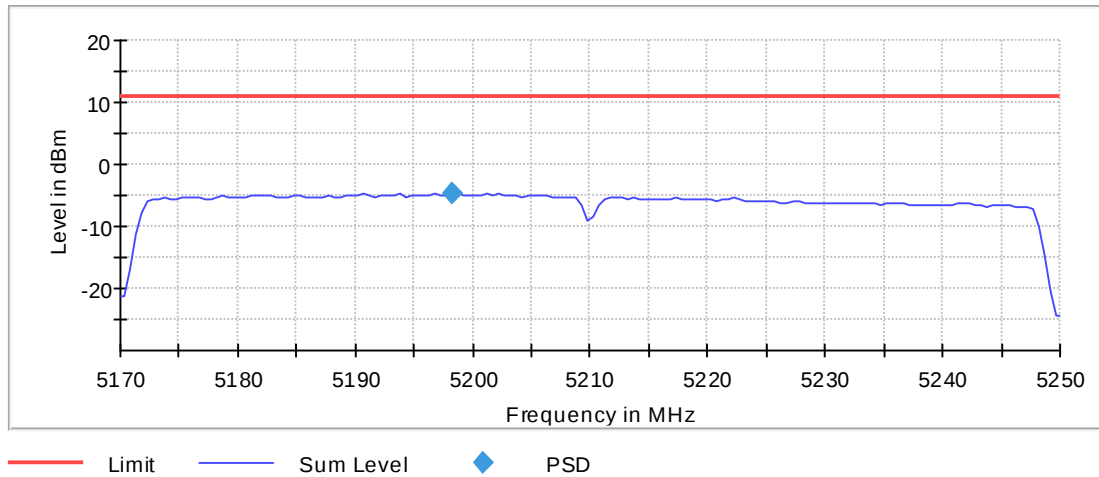
Modulation = 802.11ac VHT80 SS1 (OFDM MCS0)

TPC = No

MIMO Mode = SISO

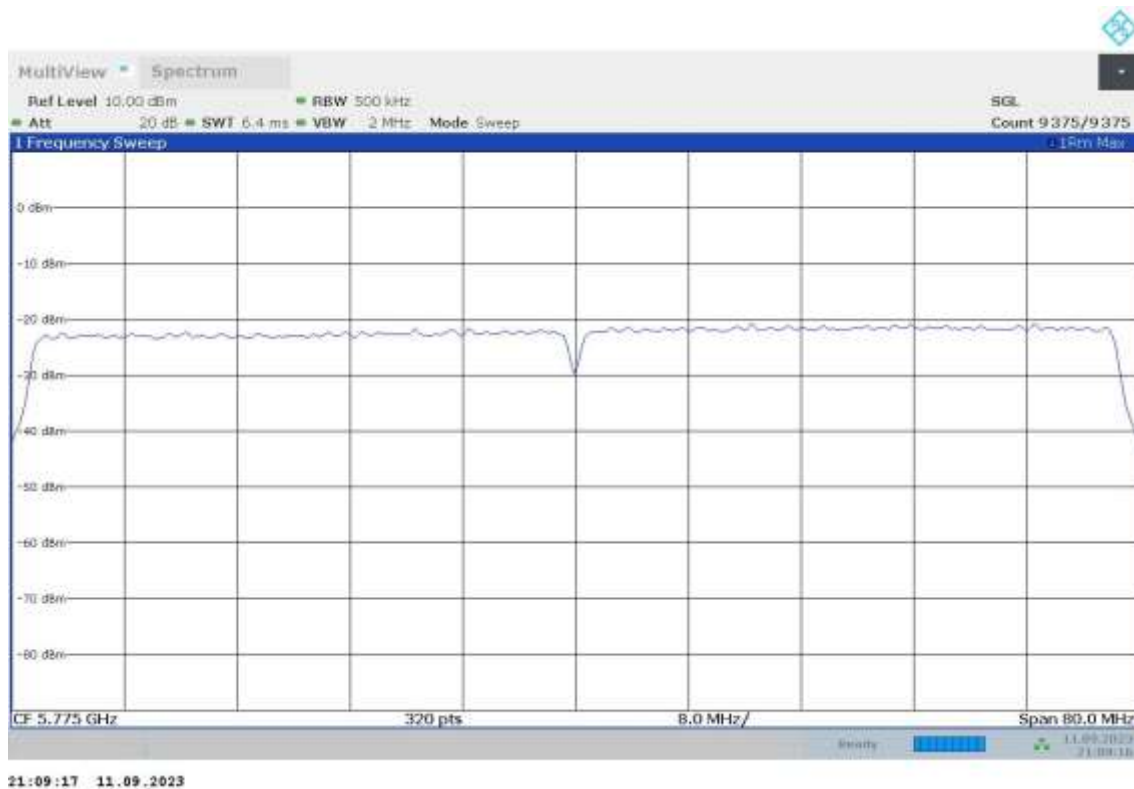
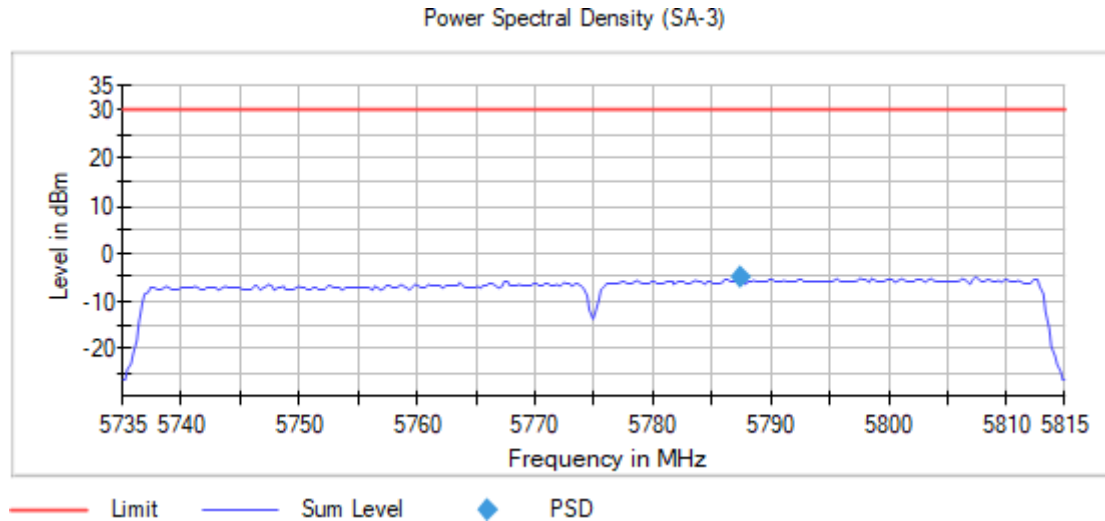
Images:

Power Spectral Density (SA-3)



Operation Band MHz = [5150, 5850] Active Port = 1
Frequency MHz = 5775.00000 Modulation = 802.11ac VHT80 SS1 (OFDM MCS0)
TPC = No MIMO Mode = SISO

Images:



Modulation: 802.11ax HE80 SS1 (OFDMA MCS0)

MIMO Mode: SISO

Results

Operation Band (MHz)	Port	Freq (MHz)	Marker Freq (MHz)	PSD (dBm)
[5150, 5850]	1	5210.00000	5194.750000	-4.13
		5775.00000	5797.375000	-2.65

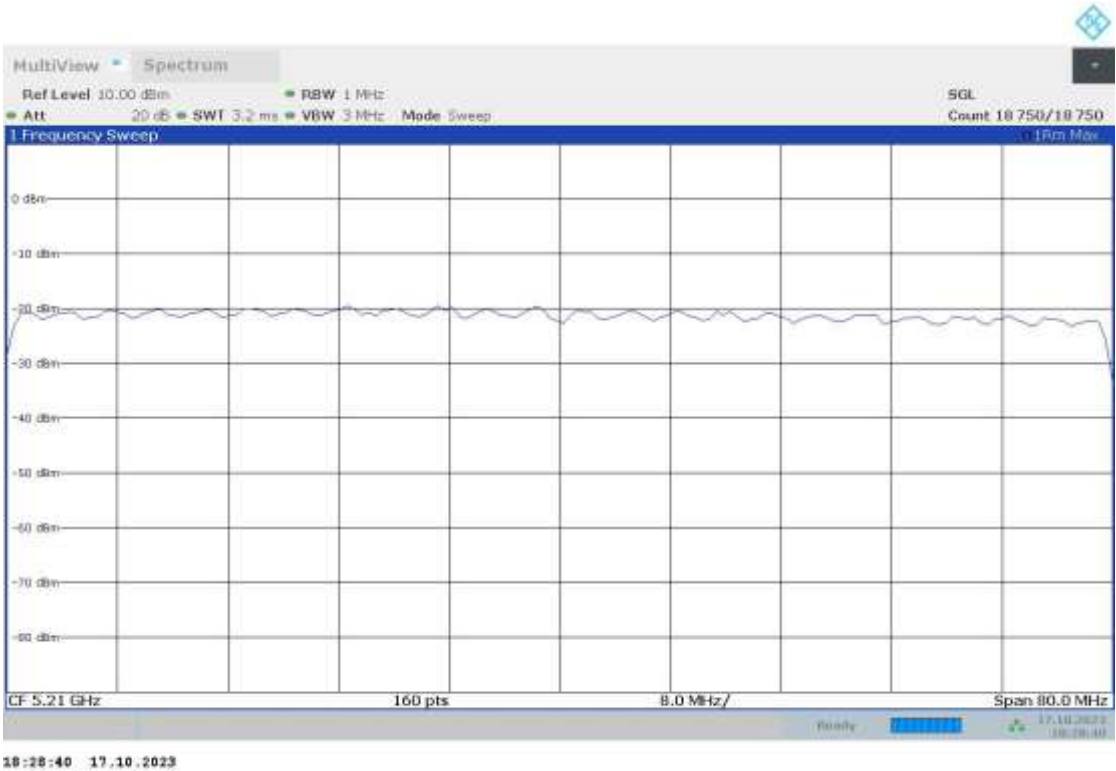
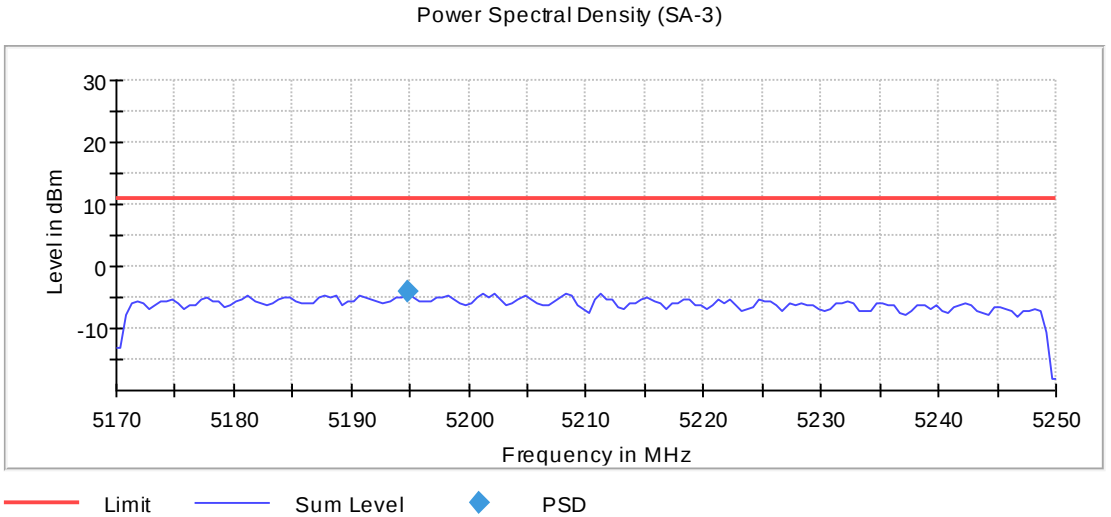
Verdict

Pass

Attachments

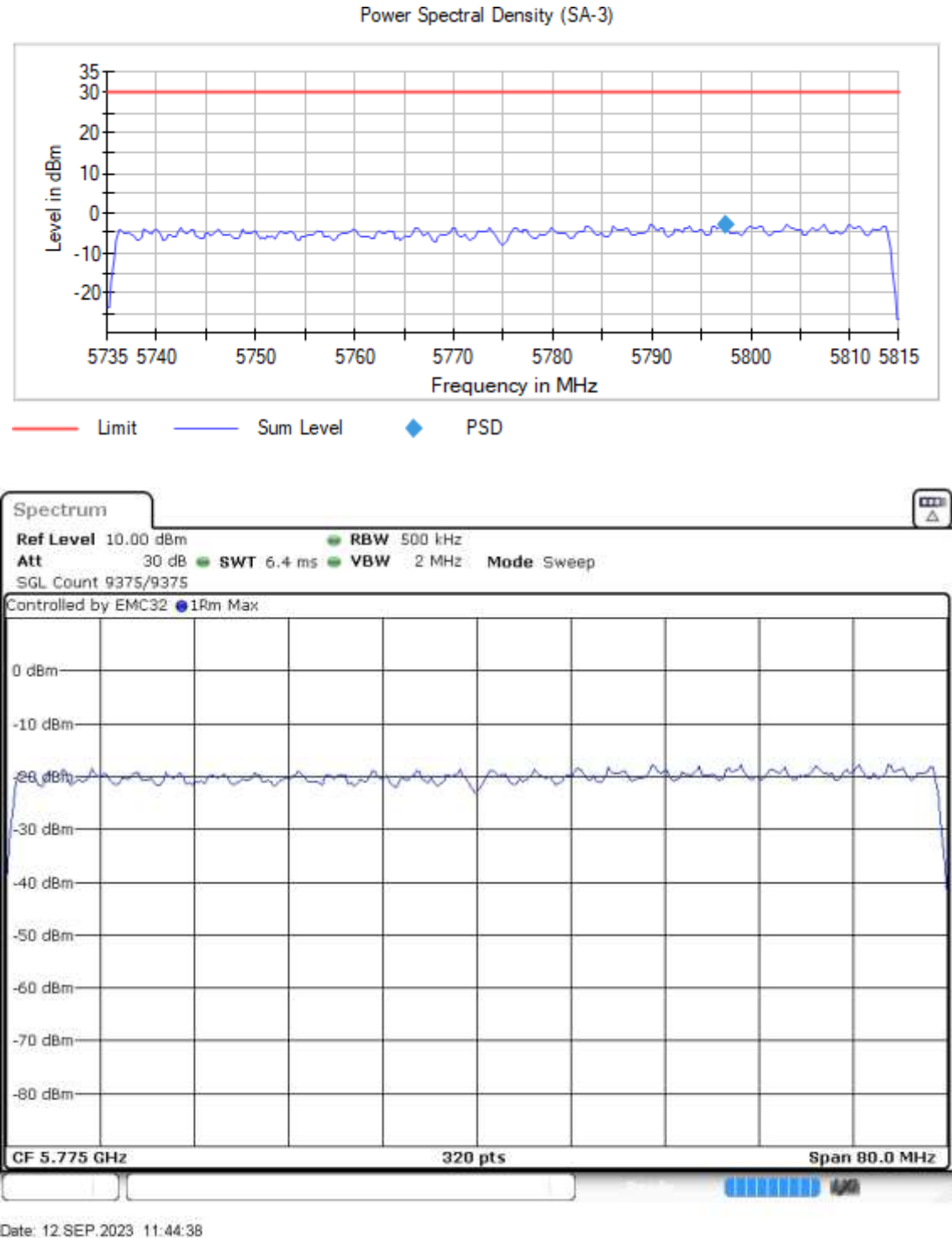
Operation Band MHz = [5150, 5850] Active Port = 1
Frequency MHz = 5210.00000 Modulation = 802.11ax HE80 SS1 (OFDMA MCS0)
TPC = No MIMO Mode = SISO

Images:



Operation Band MHz = [5150, 5850] Active Port = 1
Frequency MHz = 5775.00000 Modulation = 802.11ax HE80 SS1 (OFDMA MCS0)
TPC = No MIMO Mode = SISO

Images:



Modulation: 802.11a (OFDM 6 Mbit/s)

MIMO Mode: SISO

Results

Operation Band (MHz)	Port	Freq (MHz)	Marker Freq (MHz)	PSD (dBm)
[5150, 5850]	1	5180.00000	5177.227723	3.77
		5200.00000	5197.227723	3.39
		5240.00000	5242.772277	4.42
		5745.00000	5747.772277	-1.04
		5785.00000	5792.524752	0.30
		5825.00000	5822.425743	-0.15

Verdict

Pass

Attachments

Operation Band MHz = [5150, 5850] Active Port = 1

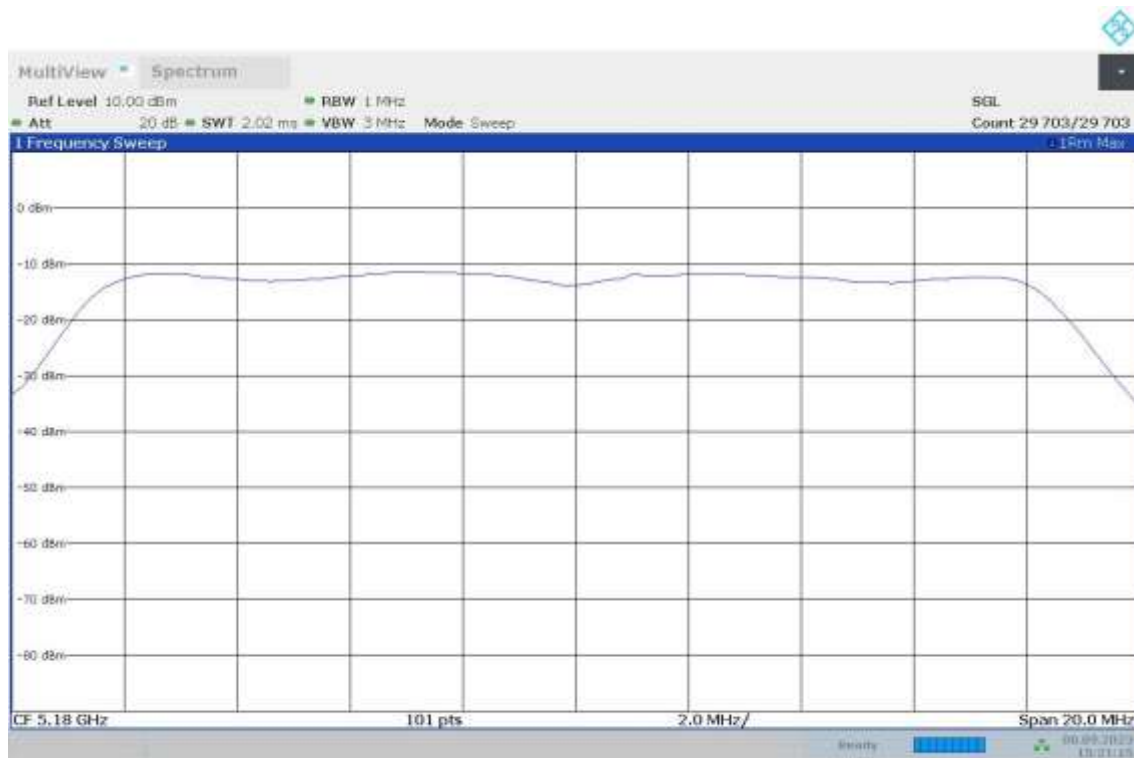
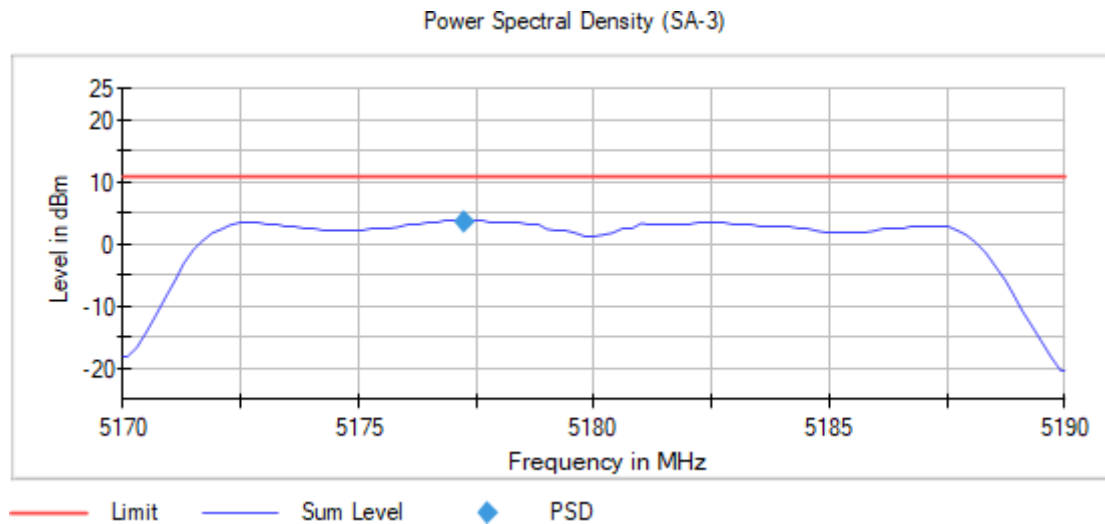
Frequency MHz = 5180.00000

Modulation = 802.11a (OFDM 6 Mbit/s)

TPC = No

MIMO Mode = SISO

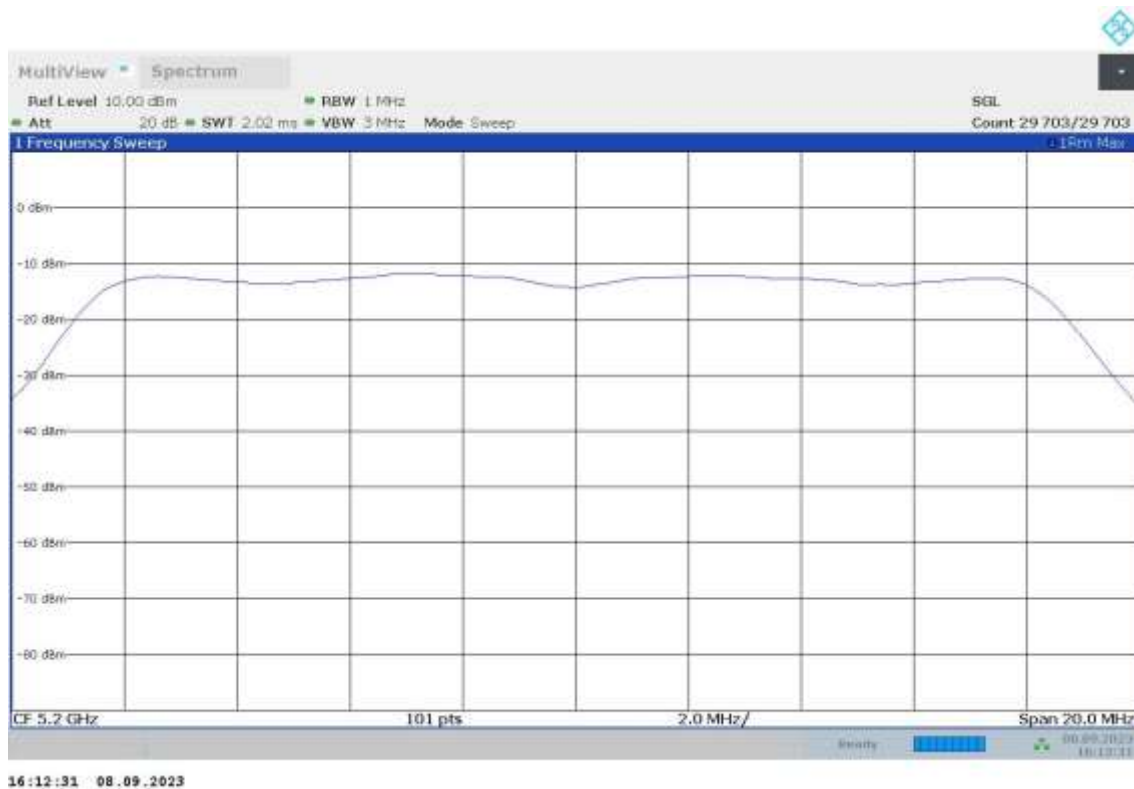
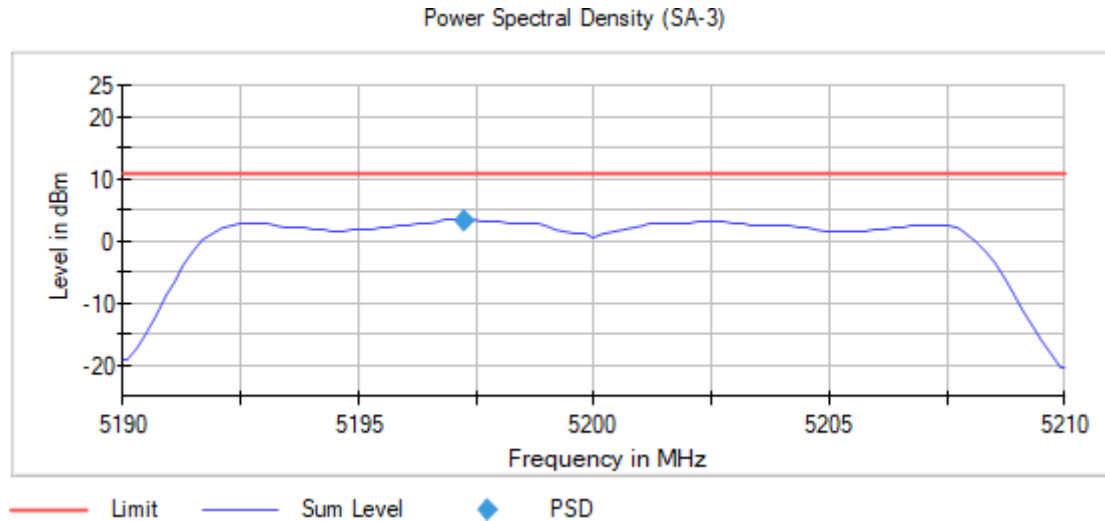
Images:



15:21:16 08.09.2023

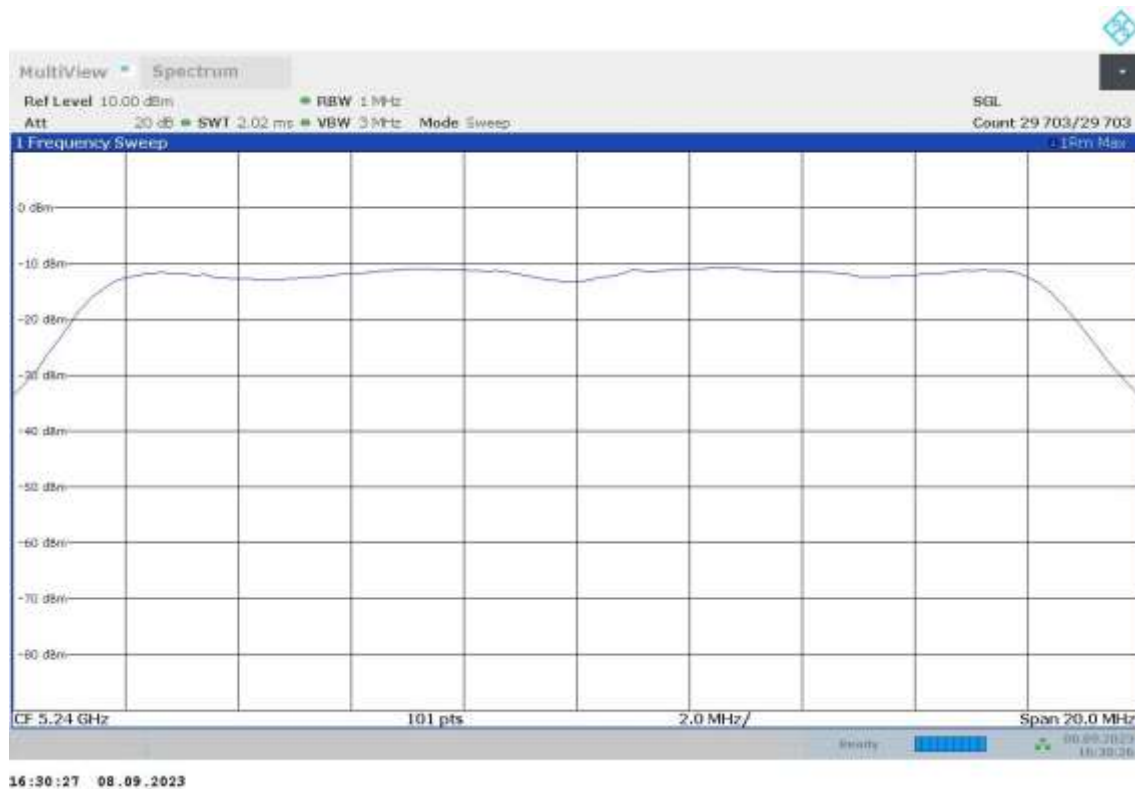
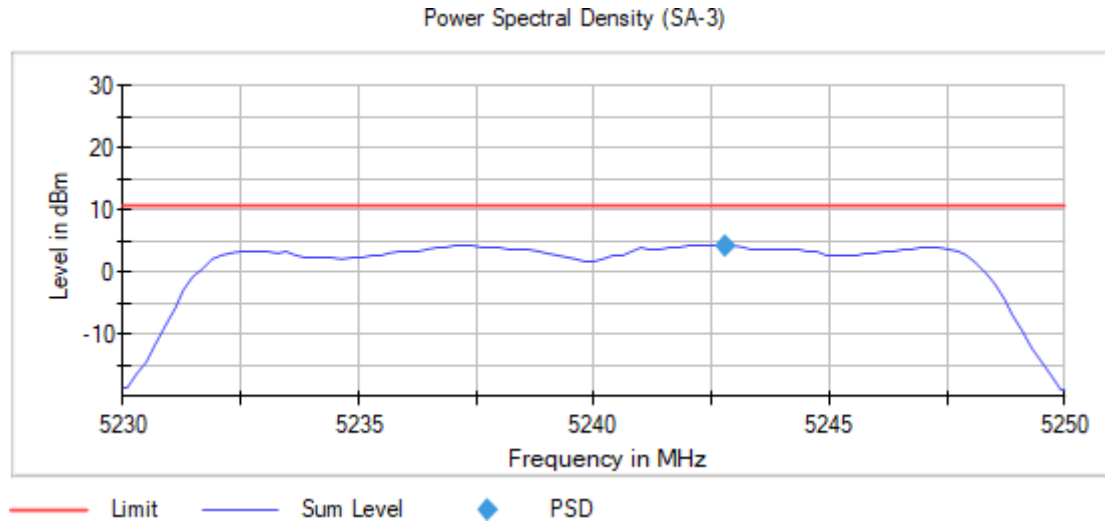
Operation Band MHz = [5150, 5850] Active Port = 1
Frequency MHz = 5200.00000 Modulation = 802.11a (OFDM 6 Mbit/s)
TPC = No MIMO Mode = SISO

Images:



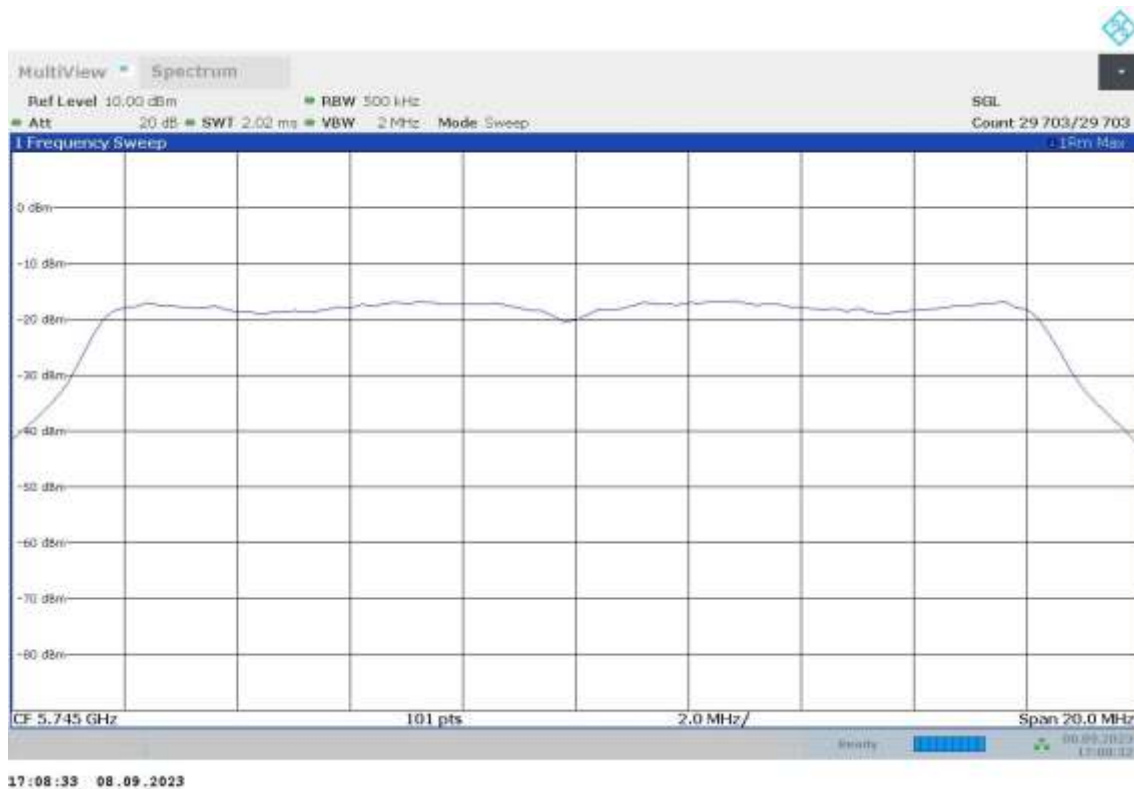
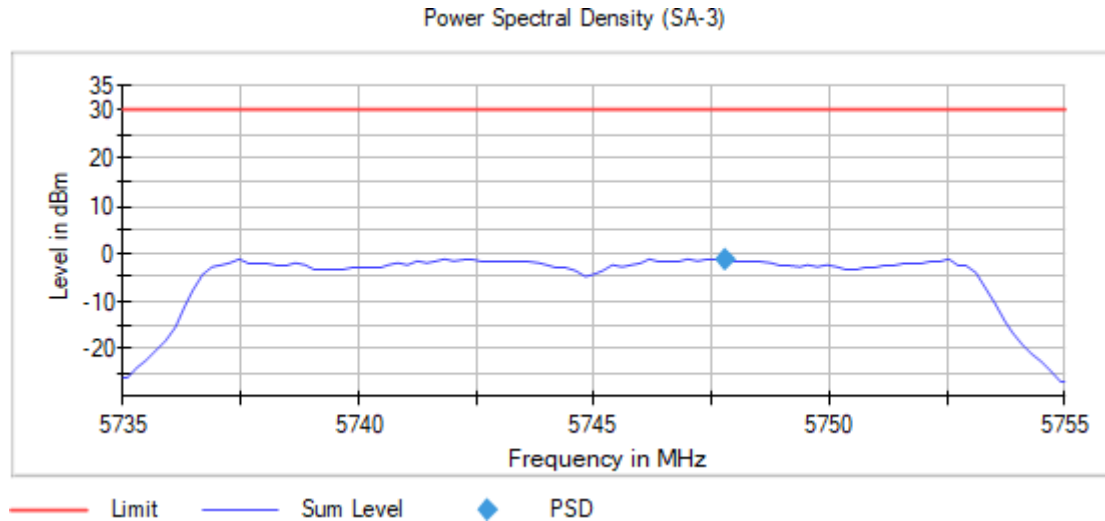
Operation Band MHz = [5150, 5850] Active Port = 1
Frequency MHz = 5240.00000 Modulation = 802.11a (OFDM 6 Mbit/s)
TPC = No MIMO Mode = SISO

Images:



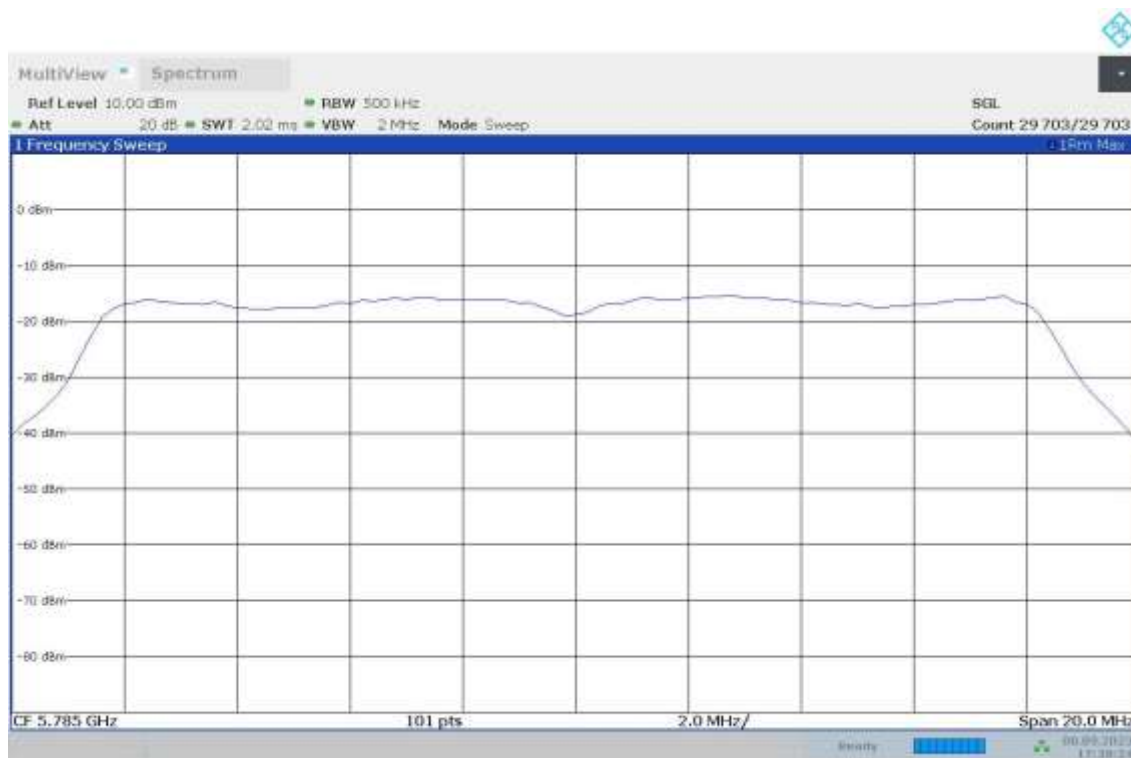
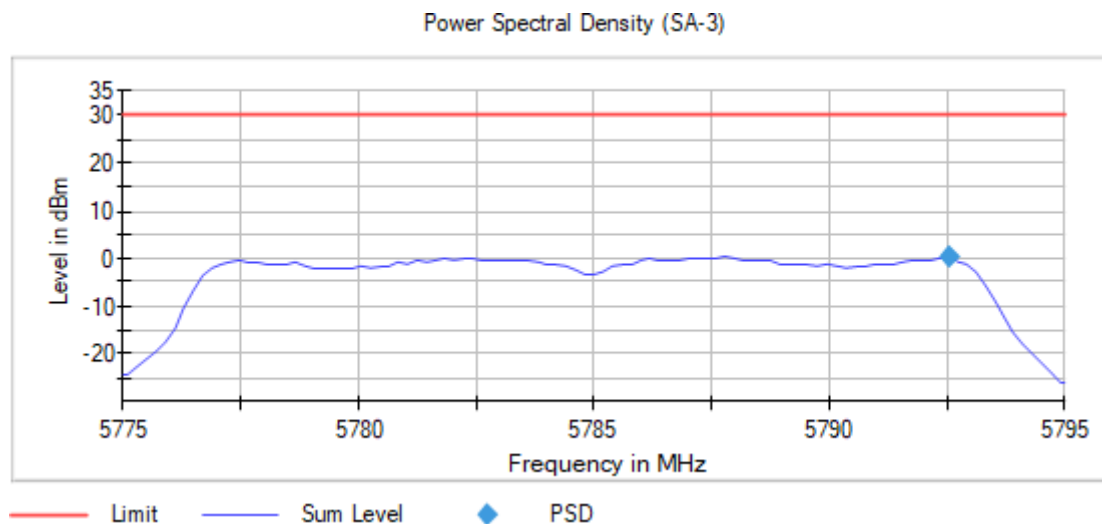
Operation Band MHz = [5150, 5850] Active Port = 1
Frequency MHz = 5745.00000 Modulation = 802.11a (OFDM 6 Mbit/s)
TPC = No MIMO Mode = SISO

Images:



Operation Band MHz = [5150, 5850] Active Port = 1
Frequency MHz = 5785.00000 Modulation = 802.11a (OFDM 6 Mbit/s)
TPC = No MIMO Mode = SISO

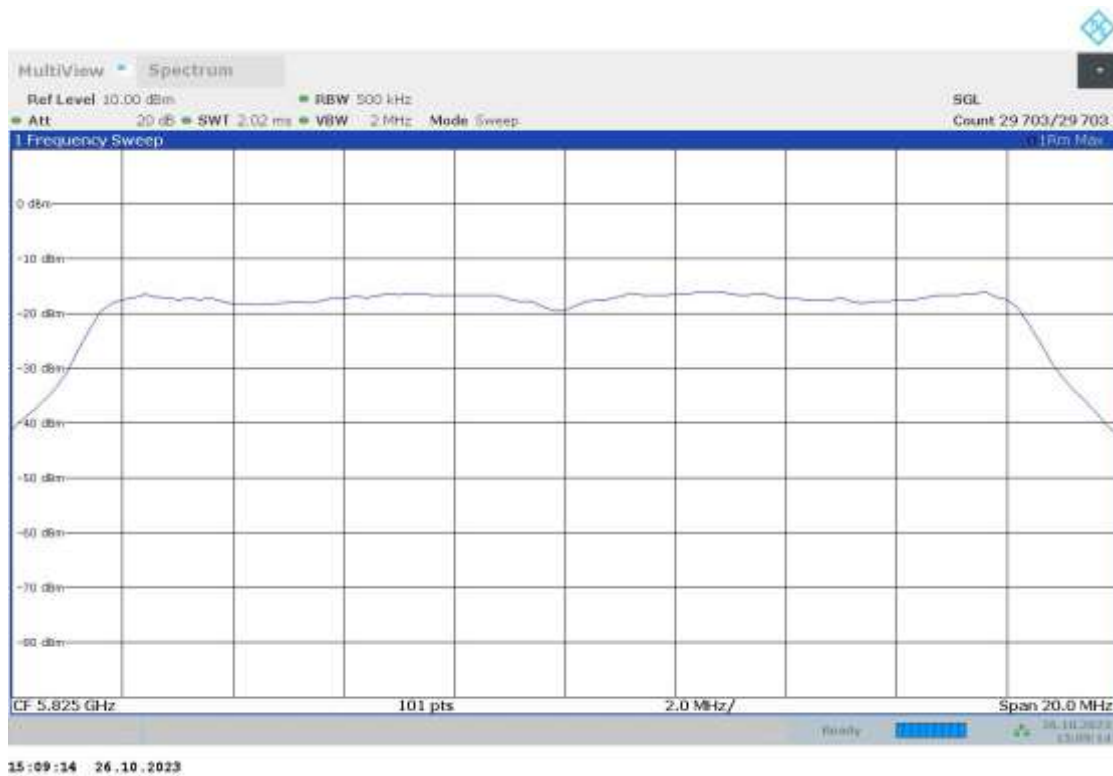
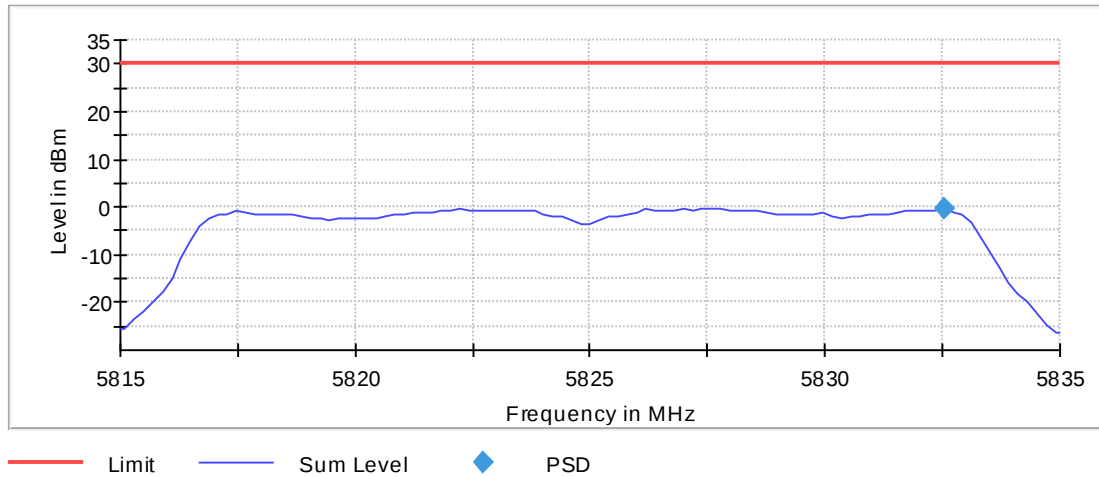
Images:



Operation Band MHz = [5150, 5850] Active Port = 1
Frequency MHz = 5825.00000 Modulation = 802.11a (OFDM 6 Mbit/s)
TPC = No MIMO Mode = SISO

Images:

Power Spectral Density (SA-3)



Modulation: 802.11n HT20 (OFDM MCS0)

MIMO Mode: SISO

Results

Operation Band (MHz)	Port	Freq (MHz)	Marker Freq (MHz)	PSD (dBm)
[5150, 5850]	1	5180.00000	5177.425743	2.38
		5200.00000	5197.425743	2.07
		5240.00000	5242.574257	3.29
		5745.00000	5747.376238	-1.38
		5785.00000	5787.376238	-1.81
		5825.00000	5817.475248	-1.97

Verdict

Pass

Attachments

Operation Band MHz = [5150, 5850] Active Port = 1

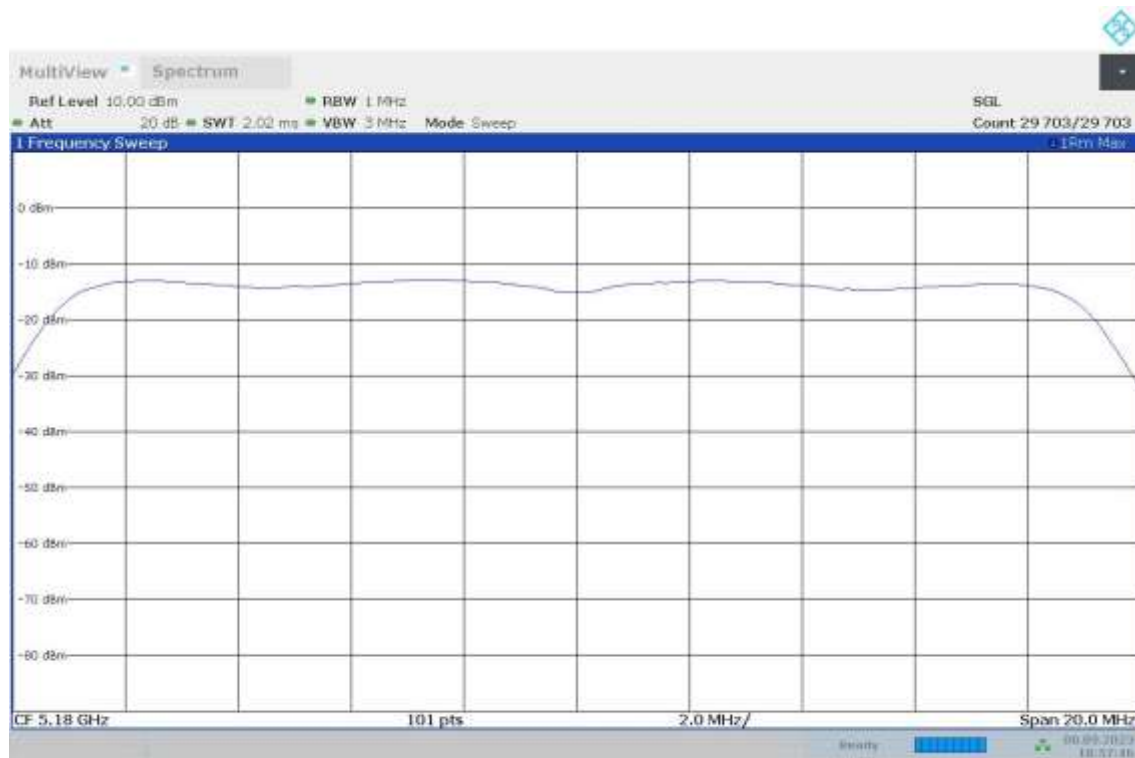
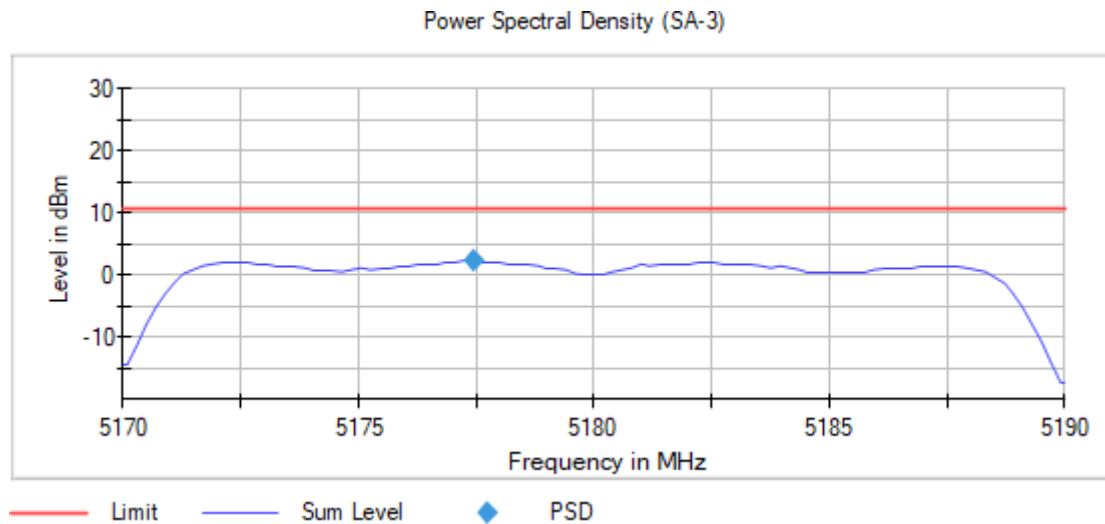
Frequency MHz = 5180.00000

Modulation = 802.11n HT20 (OFDM MCS0)

TPC = No

MIMO Mode = SISO

Images:



18:57:47 08.09.2023

Operation Band MHz = [5150, 5850] Active Port = 1

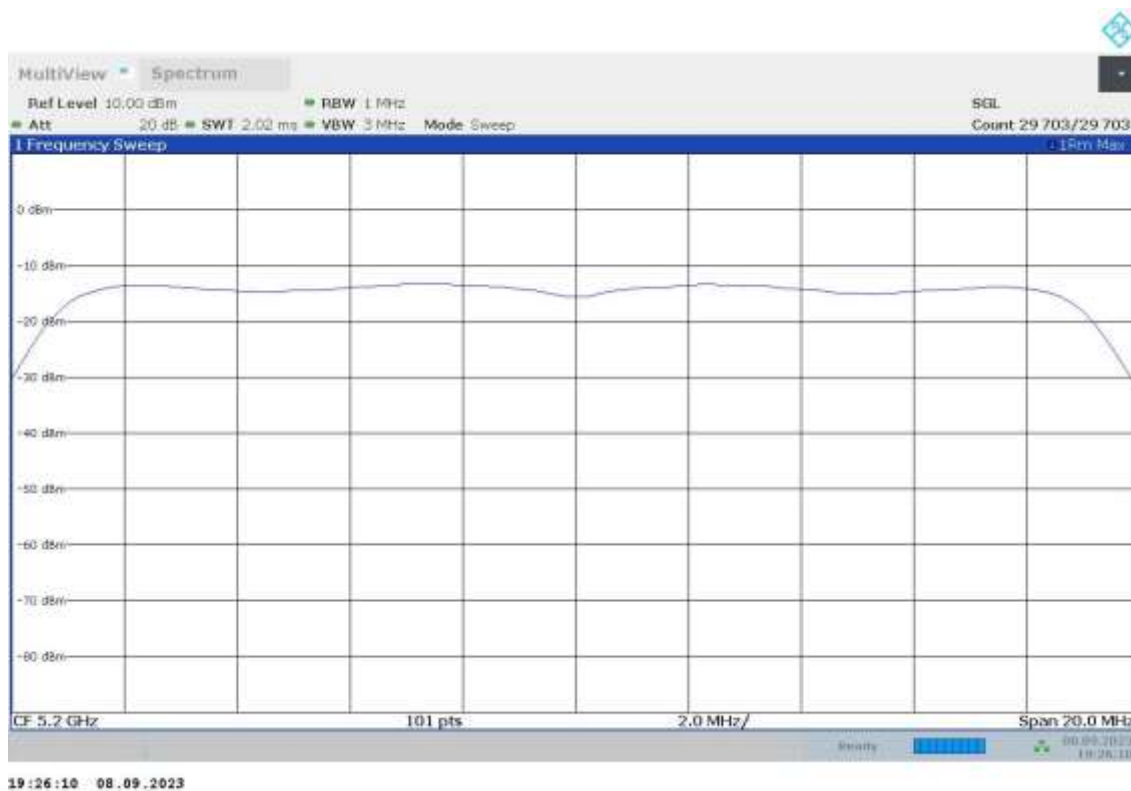
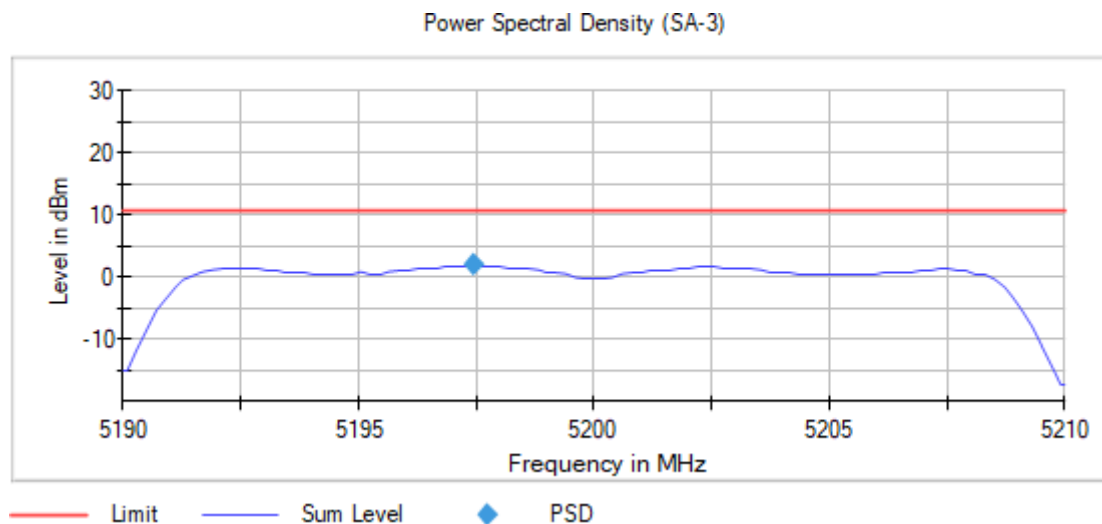
Frequency MHz = 5200.00000

Modulation = 802.11n HT20 (OFDM MCS0)

TPC = No

MIMO Mode = SISO

Images:



Operation Band MHz = [5150, 5850] Active Port = 1

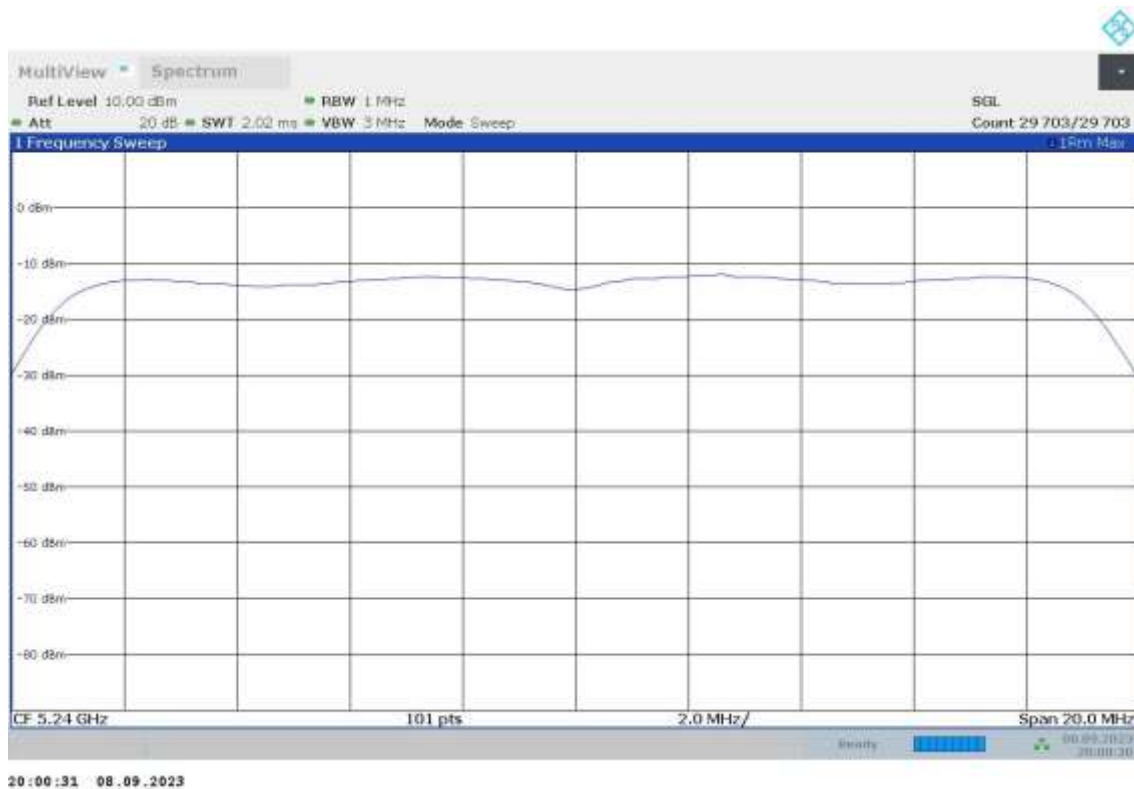
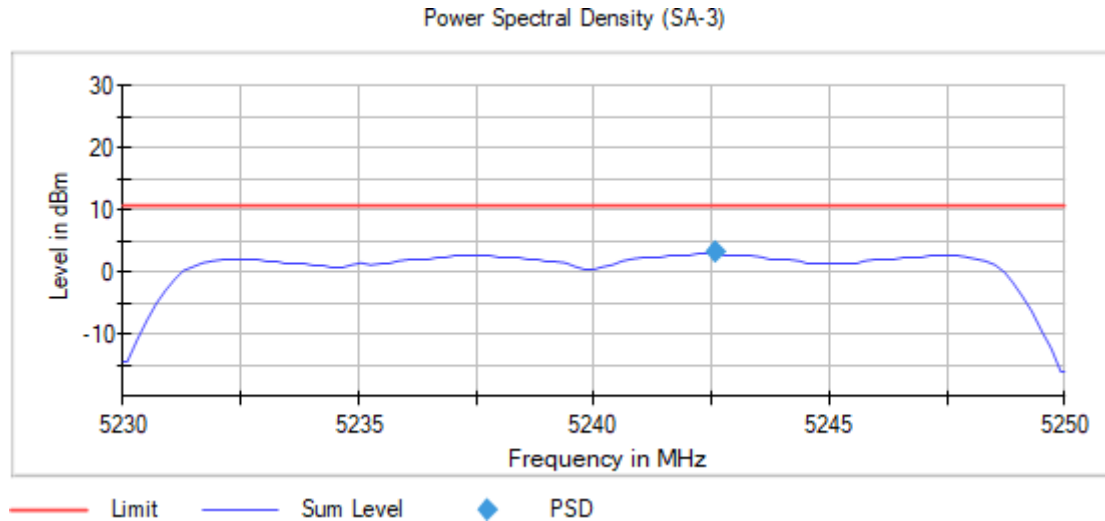
Frequency MHz = 5240.00000

Modulation = 802.11n HT20 (OFDM MCS0)

TPC = No

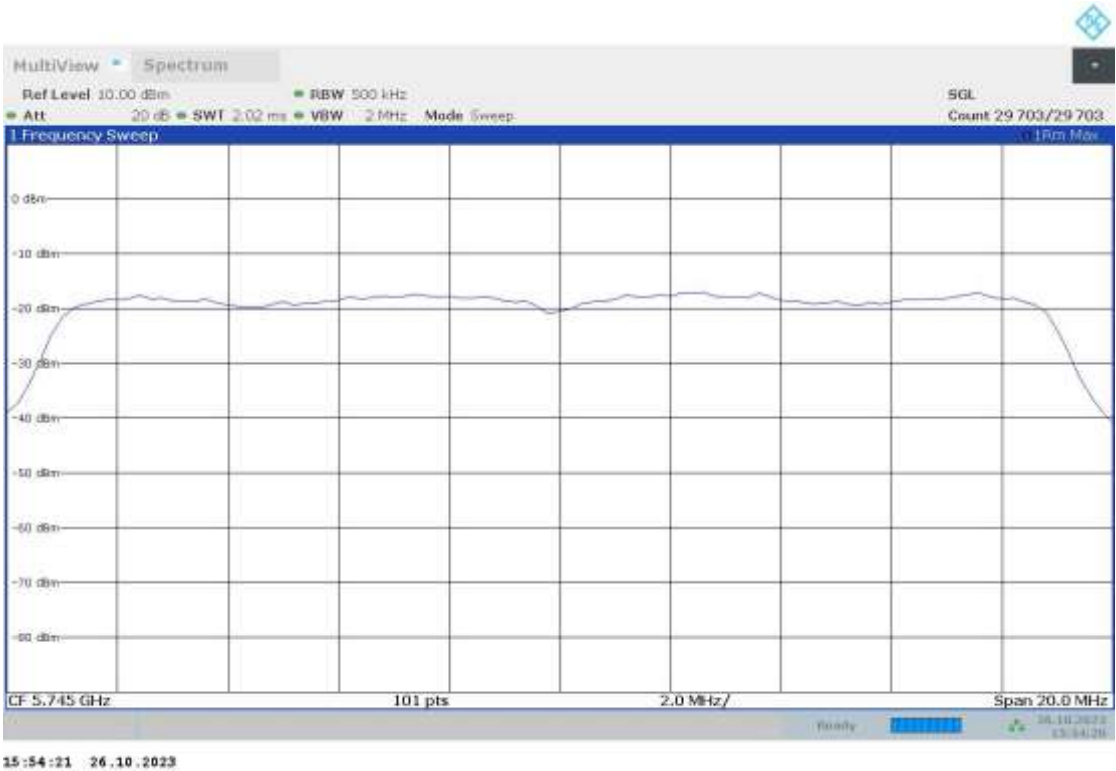
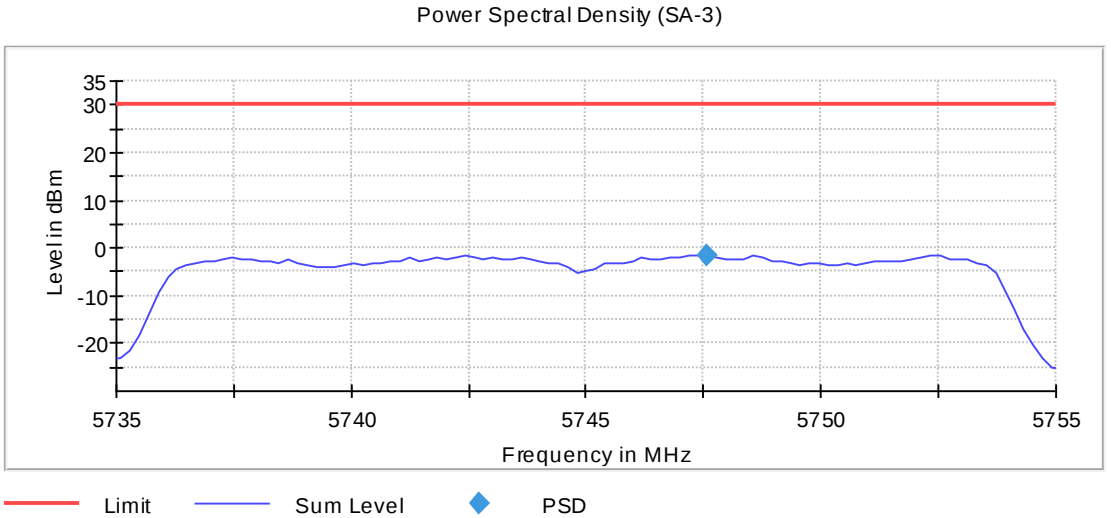
MIMO Mode = SISO

Images:



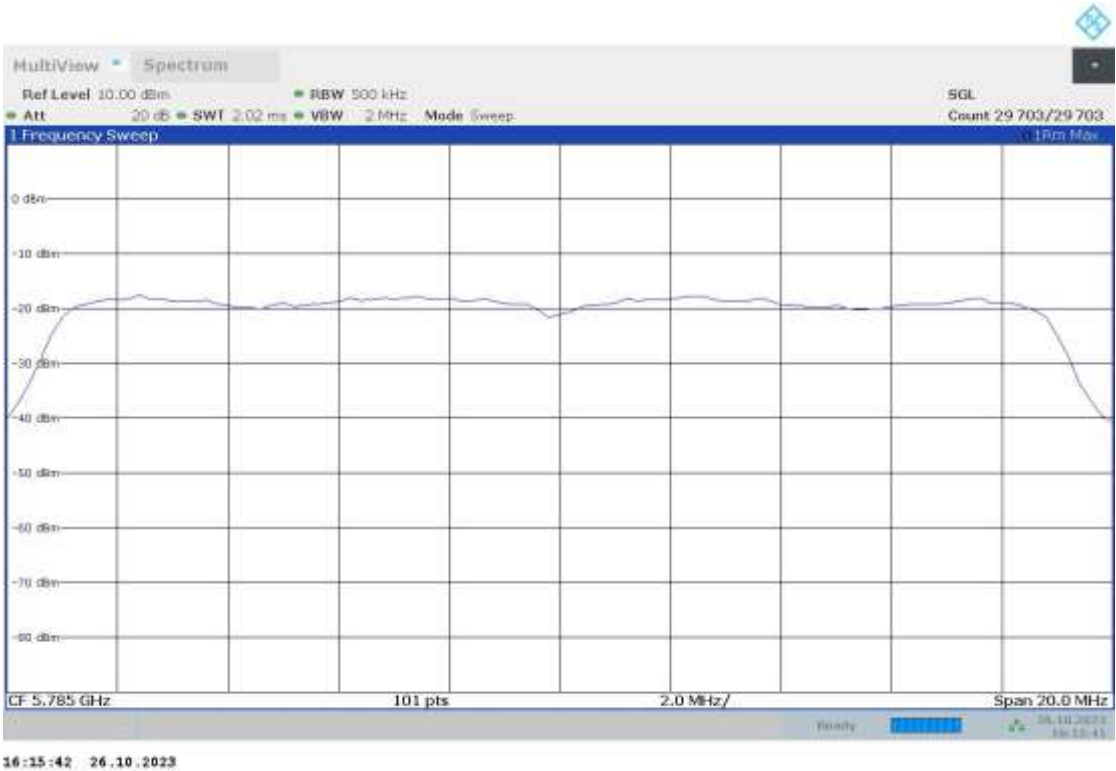
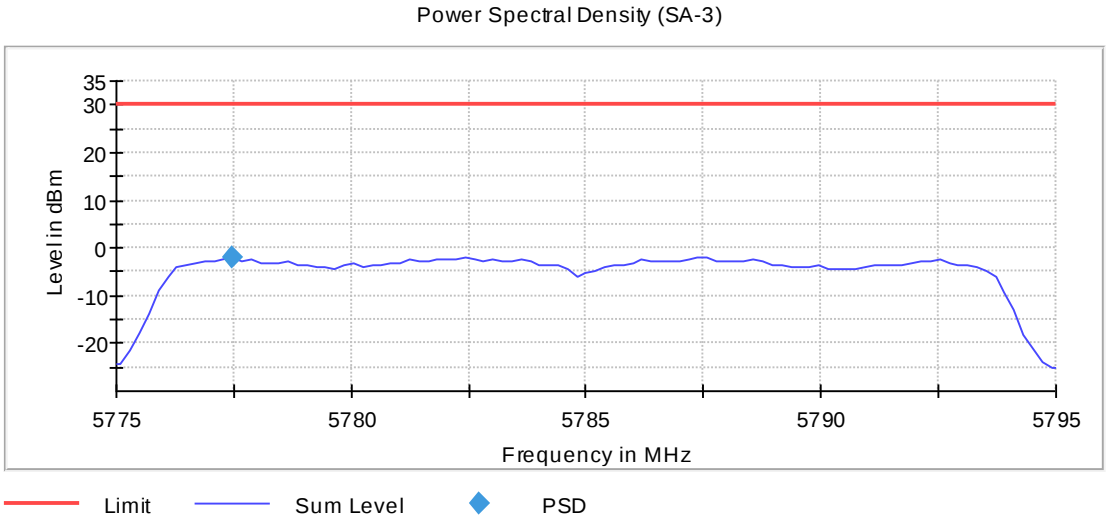
Operation Band MHz = [5150, 5850] Active Port = 1
Frequency MHz = 5745.00000 Modulation = 802.11n HT20 (OFDM MCS0)
TPC = No MIMO Mode = SISO

Images:



Operation Band MHz = [5150, 5850] Active Port = 1
Frequency MHz = 5785.00000 Modulation = 802.11n HT20 (OFDM MCS0)
TPC = No MIMO Mode = SISO

Images:



Operation Band MHz = [5150, 5850] Active Port = 1

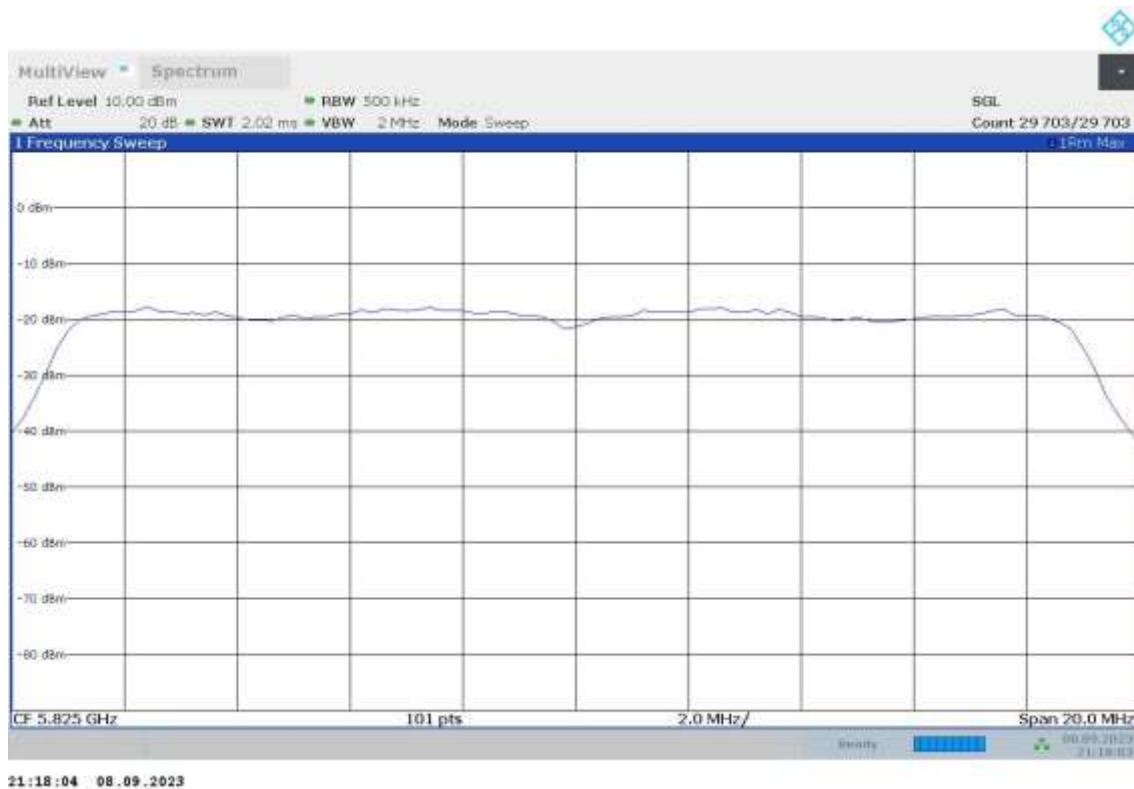
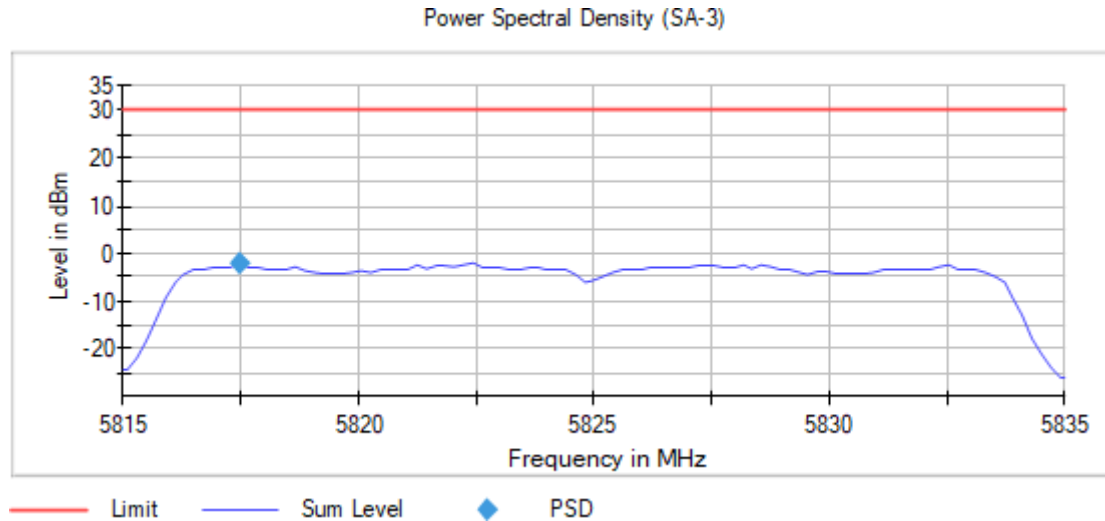
Frequency MHz = 5825.00000

Modulation = 802.11n HT20 (OFDM MCS0)

TPC = No

MIMO Mode = SISO

Images:



Modulation: 802.11n HT40 (OFDM MCS0)

MIMO Mode: SISO

Results

Operation Band (MHz)	Port	Freq (MHz)	Marker Freq (MHz)	PSD (dBm)
[5150, 5850]	1	5190.00000	5195.148515	-1.06
		5230.00000	5223.663366	-2.02
		5755.00000	5761.125000	-2.83
		5795.00000	5801.125000	-1.06

Verdict

Pass

Attachments

Operation Band MHz = [5150, 5850] Active Port = 1

Frequency MHz = 5190.00000

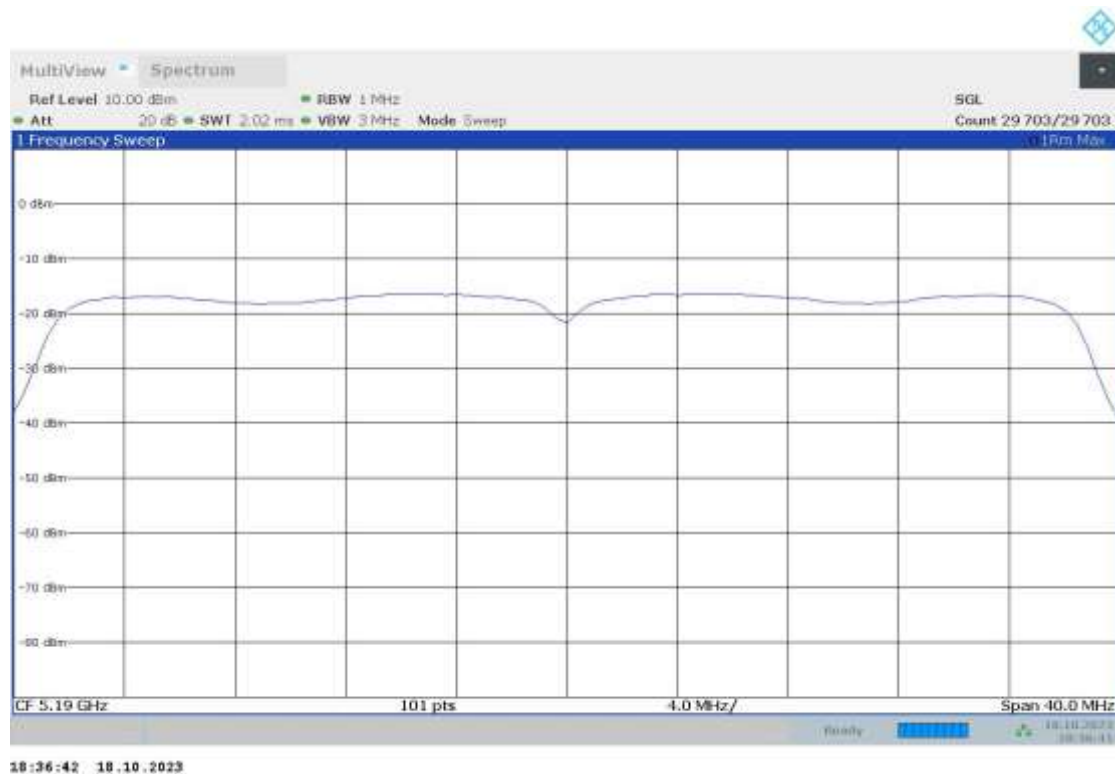
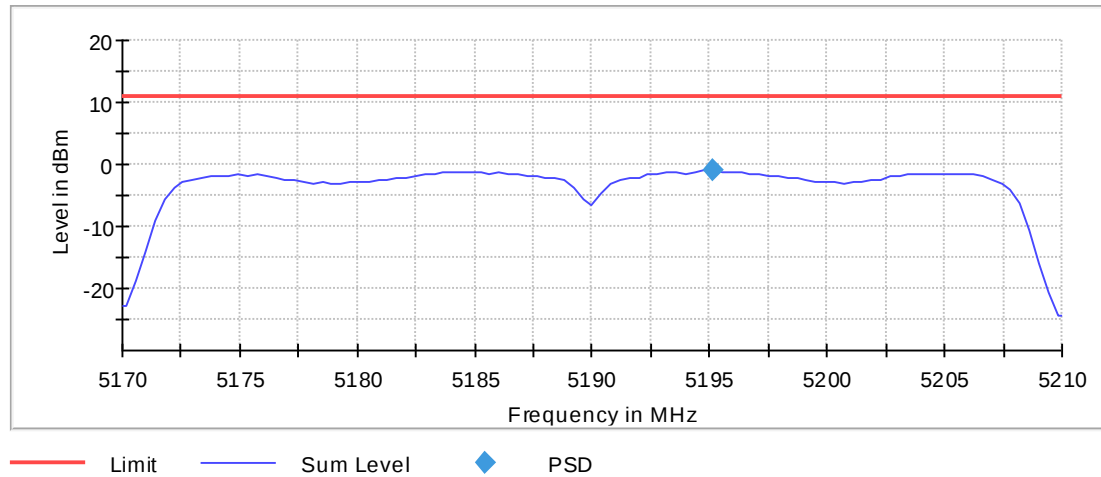
Modulation = 802.11n HT40 (OFDM MCS0)

TPC = No

MIMO Mode = SISO

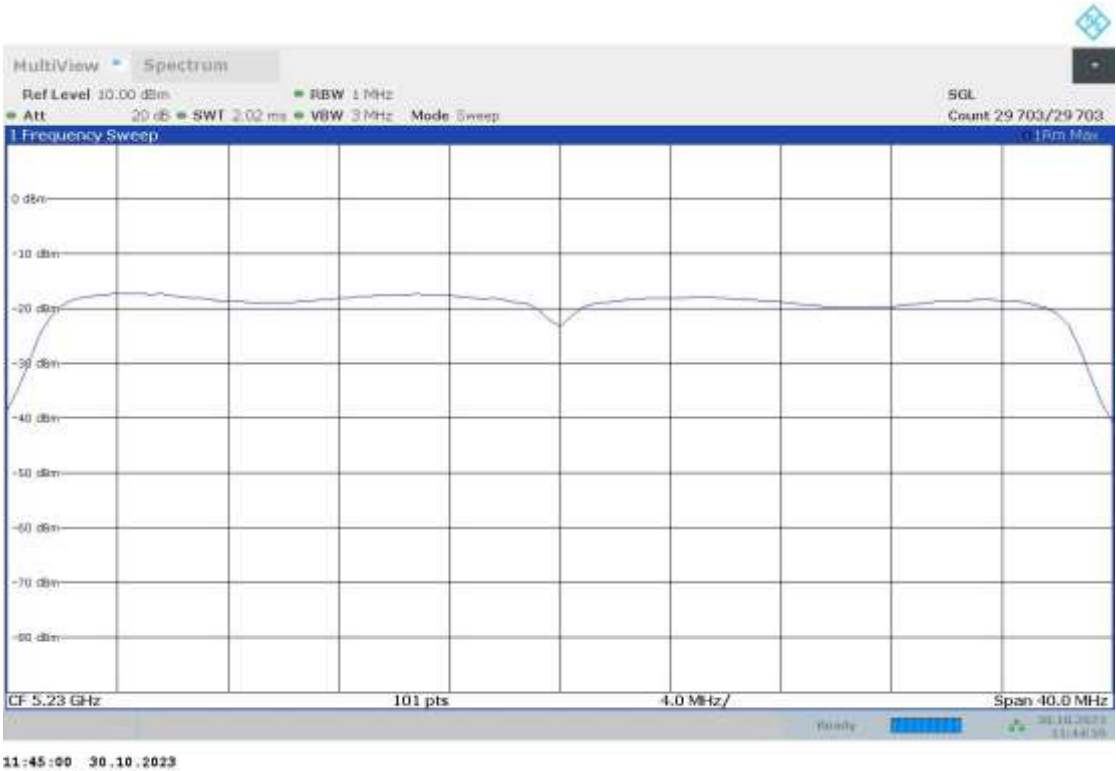
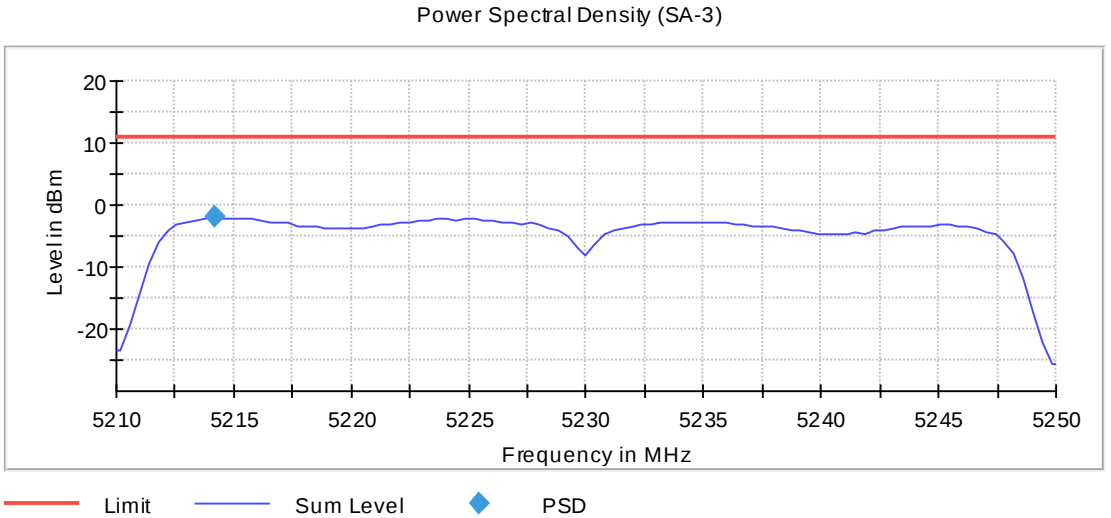
Images:

Power Spectral Density (SA-3)



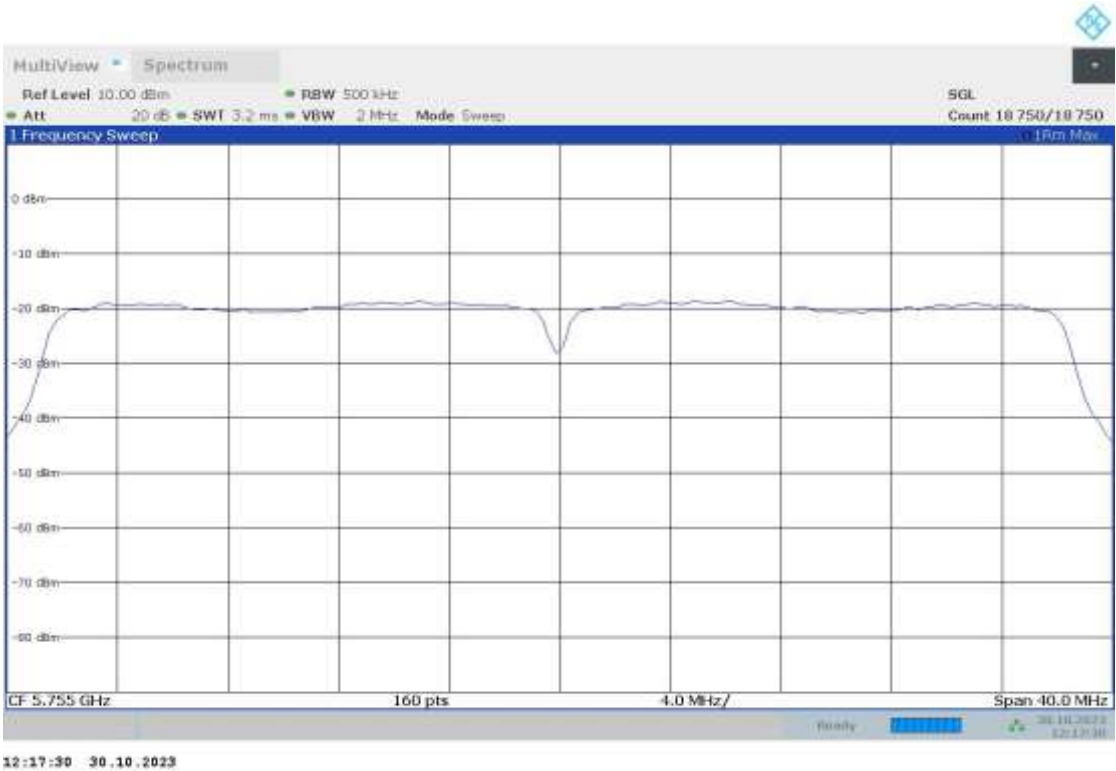
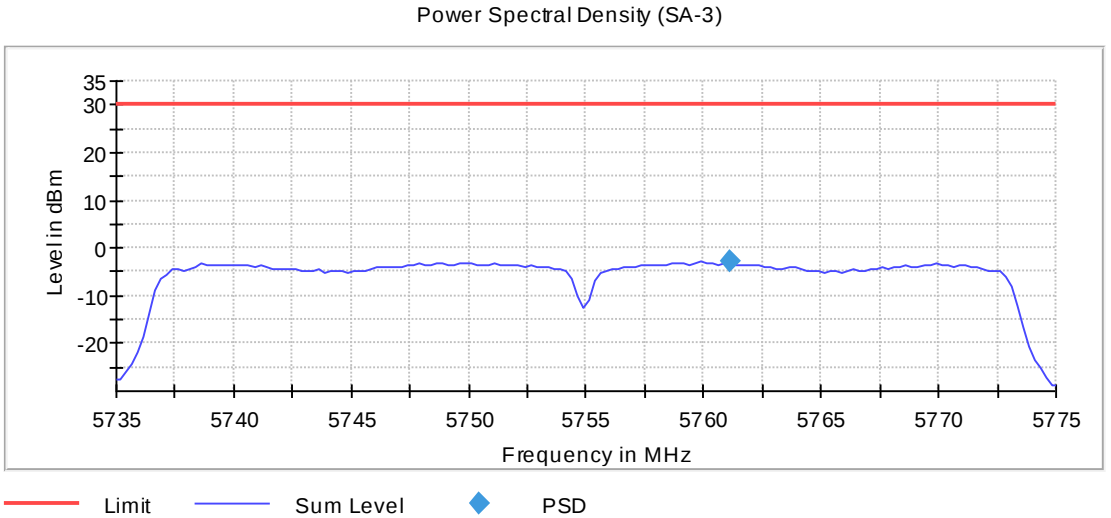
Operation Band MHz = [5150, 5850] Active Port = 1
Frequency MHz = 5230.00000 Modulation = 802.11n HT40 (OFDM MCS0)
TPC = No MIMO Mode = SISO

Images:



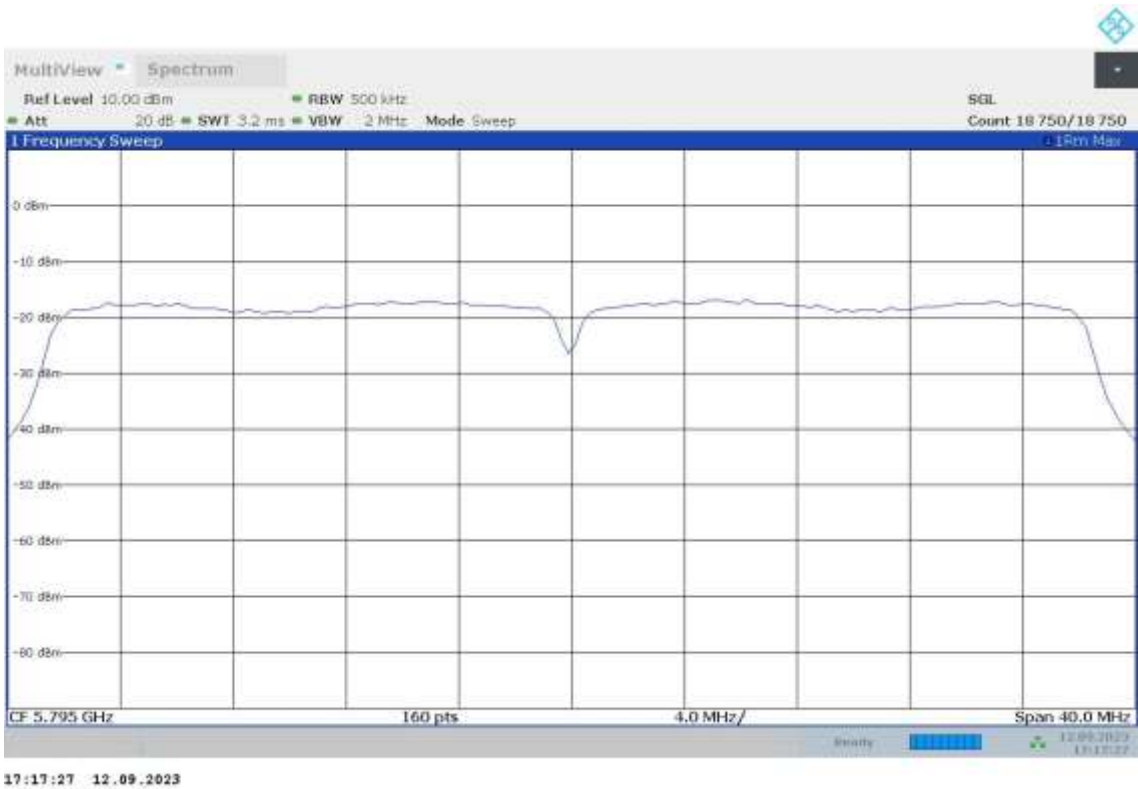
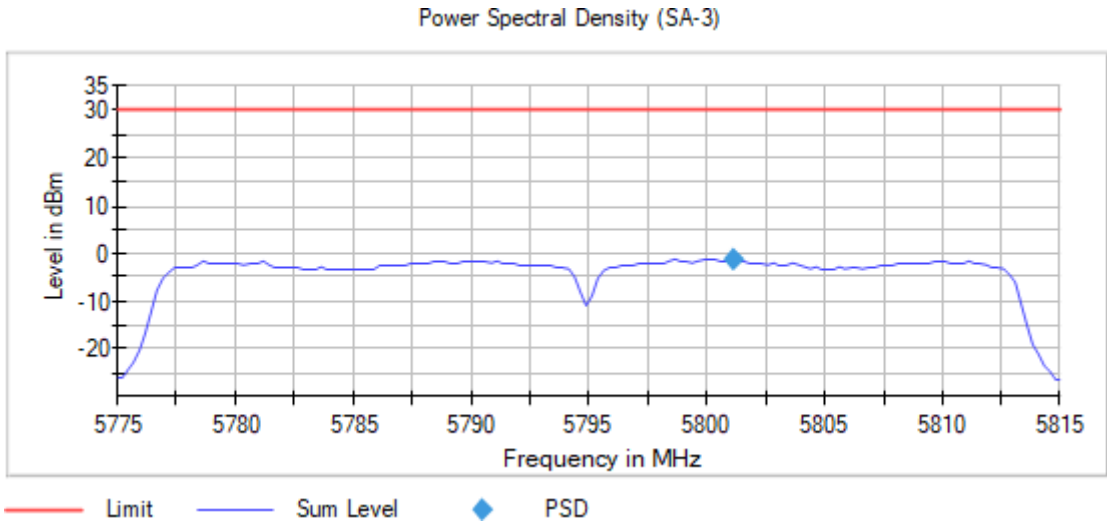
Operation Band MHz = [5150, 5850] Active Port = 1
Frequency MHz = 5755.00000 Modulation = 802.11n HT40 (OFDM MCS0)
TPC = No MIMO Mode = SISO

Images:



Operation Band MHz = [5150, 5850] Active Port = 1
Frequency MHz = 5795.00000 Modulation = 802.11n HT40 (OFDM MCS0)
TPC = No MIMO Mode = SISO

Images:



FCC 15.407 (e) / RSS 247 6.2.4.1 6 dB Emission Bandwidth

Limits

For equipment operating in the band 5725-5850 MHz, the minimum 6 dB bandwidth shall be at least 500 kHz.

Modulation: 802.11ac VHT20 SS1 (OFDM MCS0)

MIMO Mode: SISO

Results

Operation Band (MHz)	Port	Freq (MHz)	Ebw (MHz)
[5150, 5850]	1	5745.00000	17.400
		5785.00000	17.400
		5825.00000	17.400

Verdict

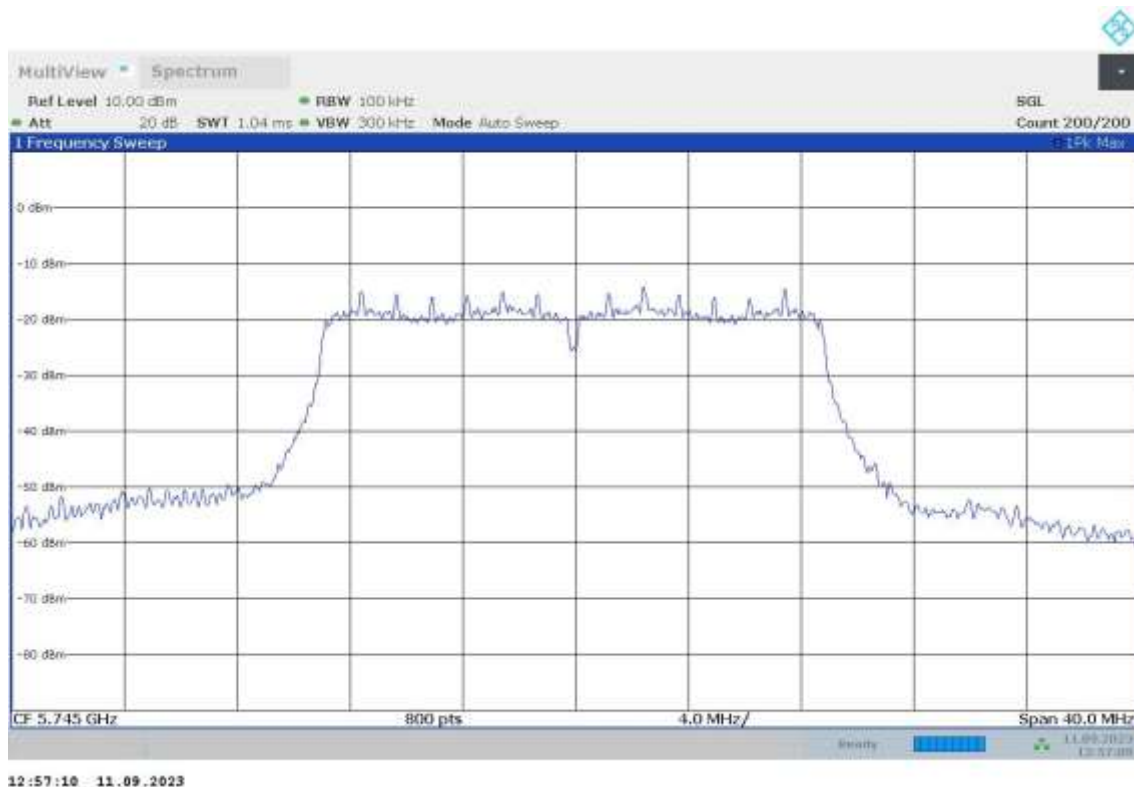
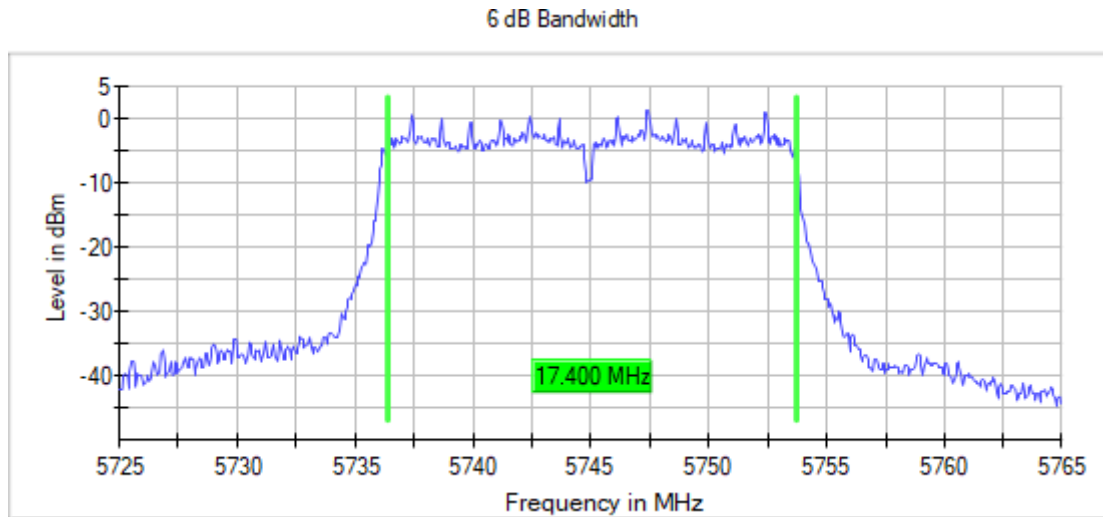
Pass

Operation Band MHz = [5150, 5850] Active Port = 1

Frequency MHz = 5745.00000 Modulation = 802.11ac VHT20 SS1 (OFDM MCS0)

MIMO Mode = SISO

Images:

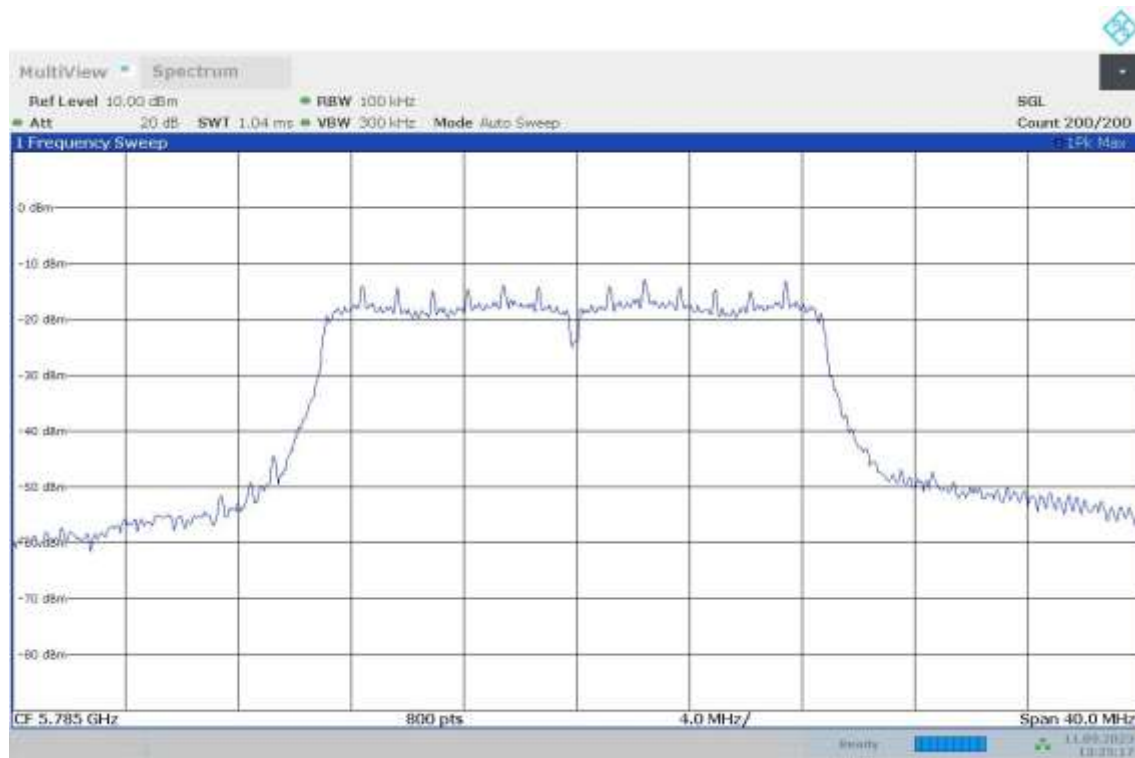
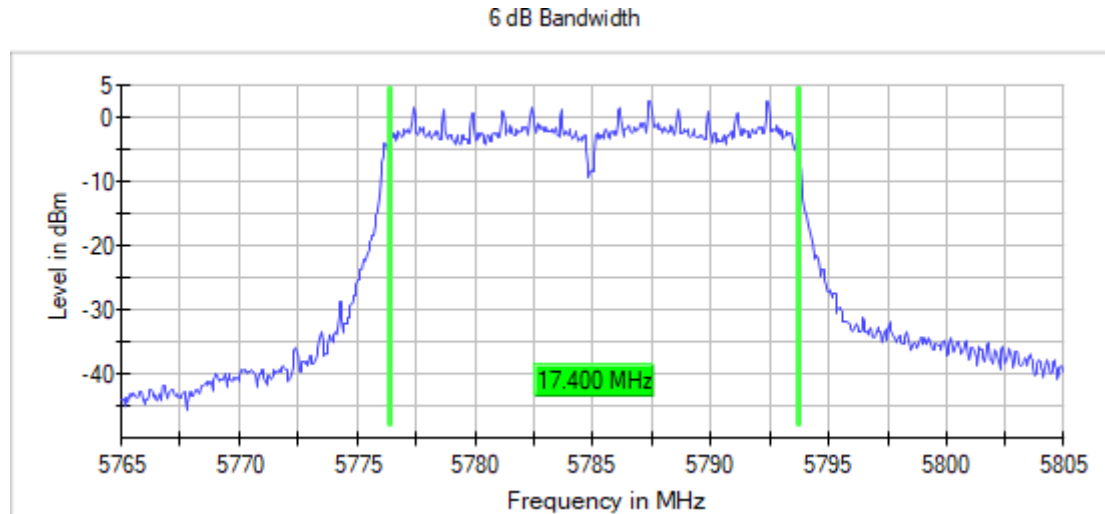


Operation Band MHz = [5150, 5850] Active Port = 1

Frequency MHz = 5785.00000 Modulation = 802.11ac VHT20 SS1 (OFDM MCS0)

MIMO Mode = SISO

Images:



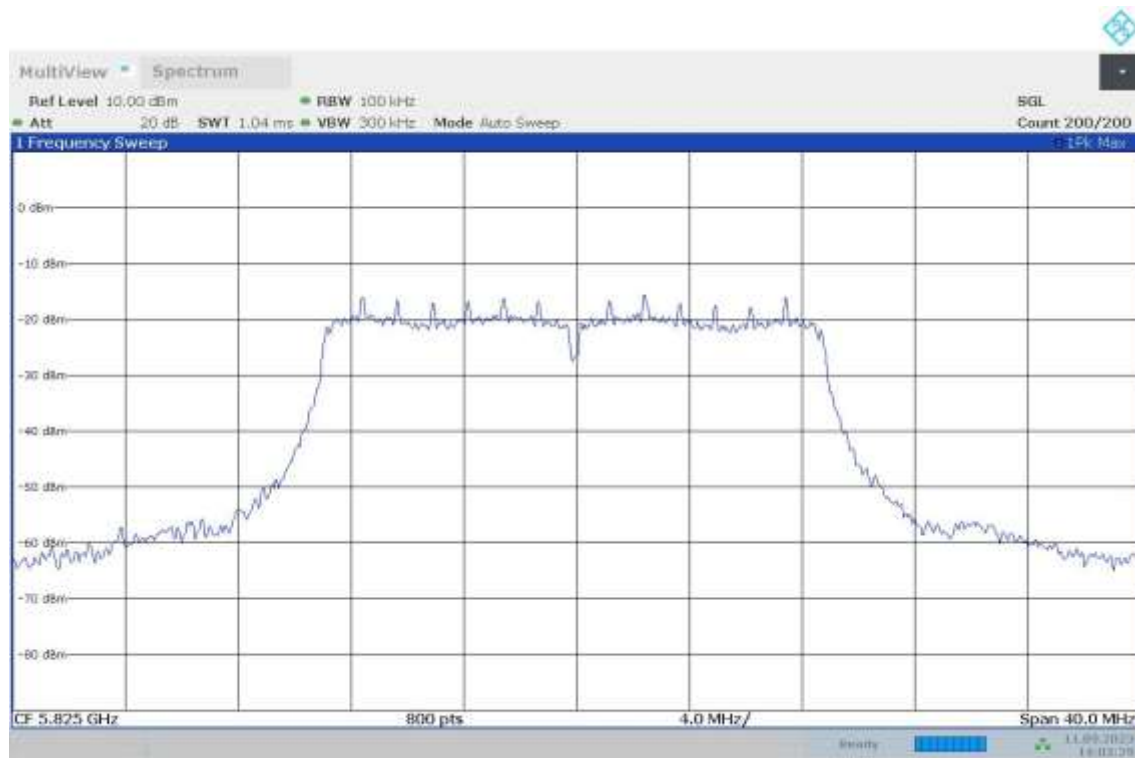
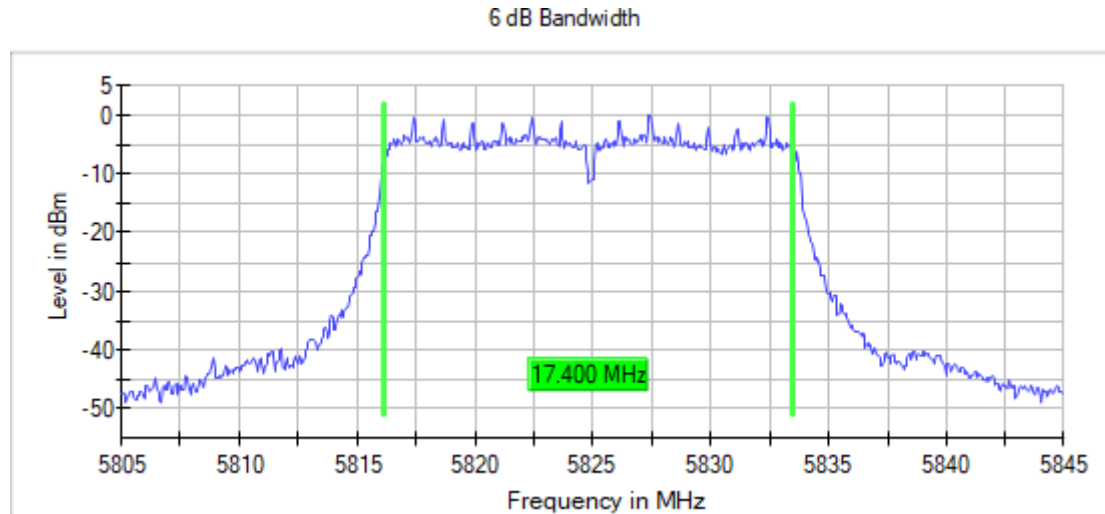
Operation Band MHz = [5150, 5850] Active Port = 1

Frequency MHz = 5825.00000

Modulation = 802.11ac VHT20 SS1 (OFDM MCS0)

MIMO Mode = SISO

Images:



14:02:30 11.09.2023

Modulation: 802.11ax HE20 SS1 (OFDMA MCS0)

MIMO Mode: SISO

Results

Operation Band (MHz)	Port	Freq (MHz)	Ebw (MHz)
[5150, 5850]	1	5745.00000	18.500
		5785.00000	18.500
		5825.00000	18.500

Verdict

Pass

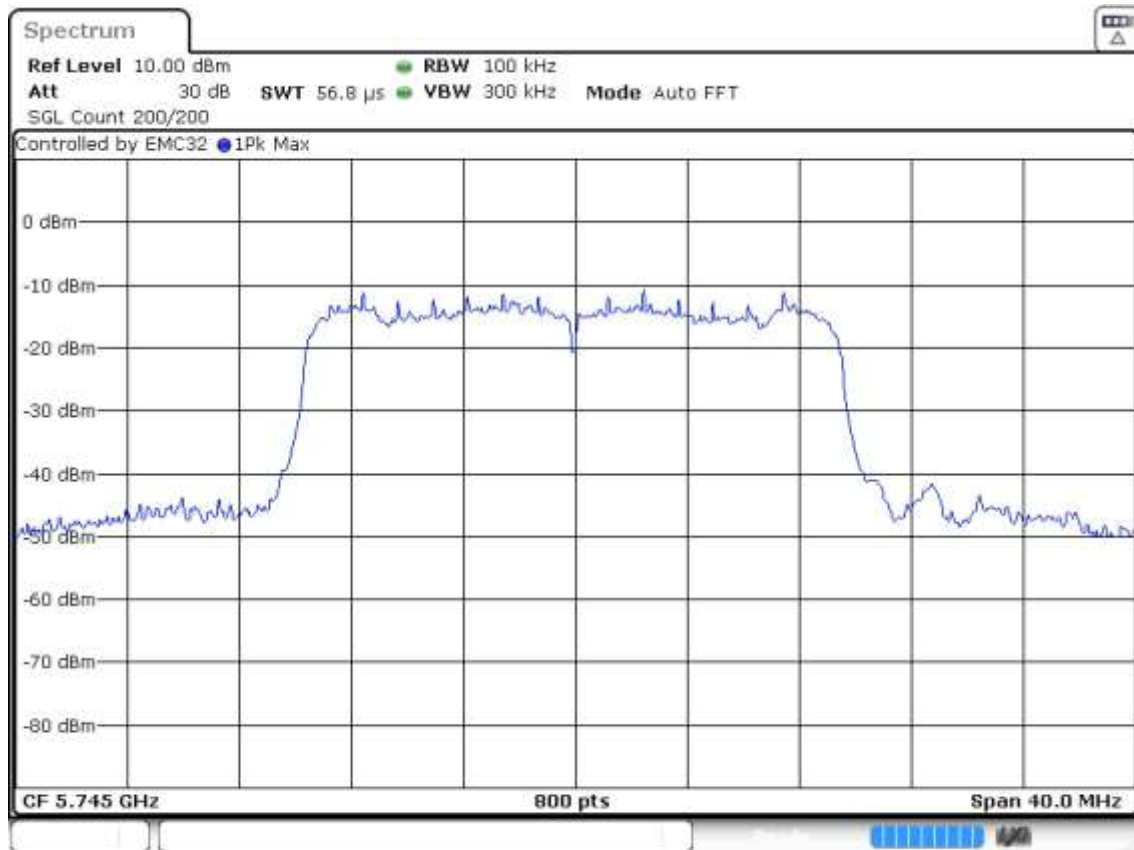
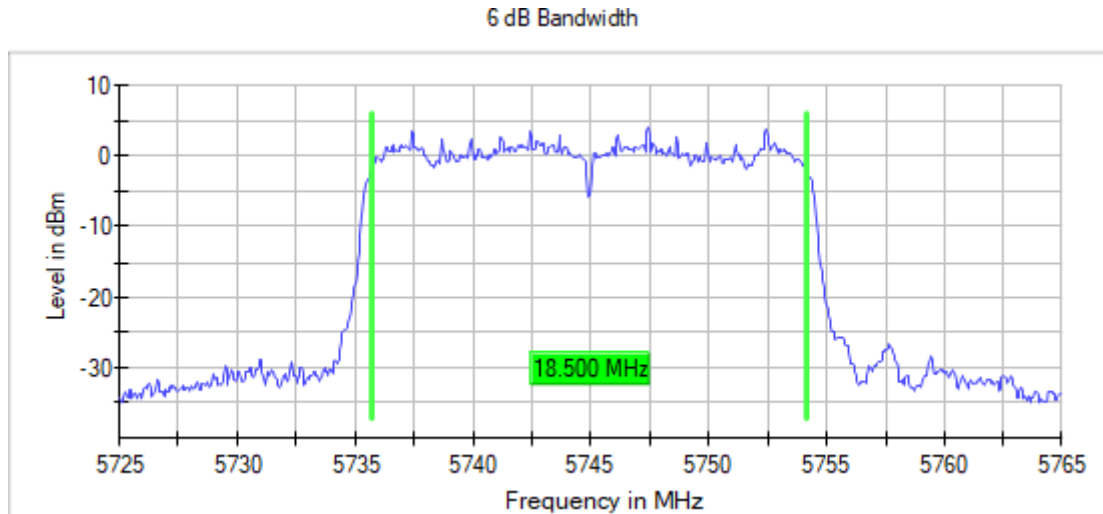
Operation Band MHz = [5150, 5850] Active Port = 1

Frequency MHz = 5745.00000

Modulation = 802.11ax HE20 SS1 (OFDMA MCS0)

MIMO Mode = SISO

Images:



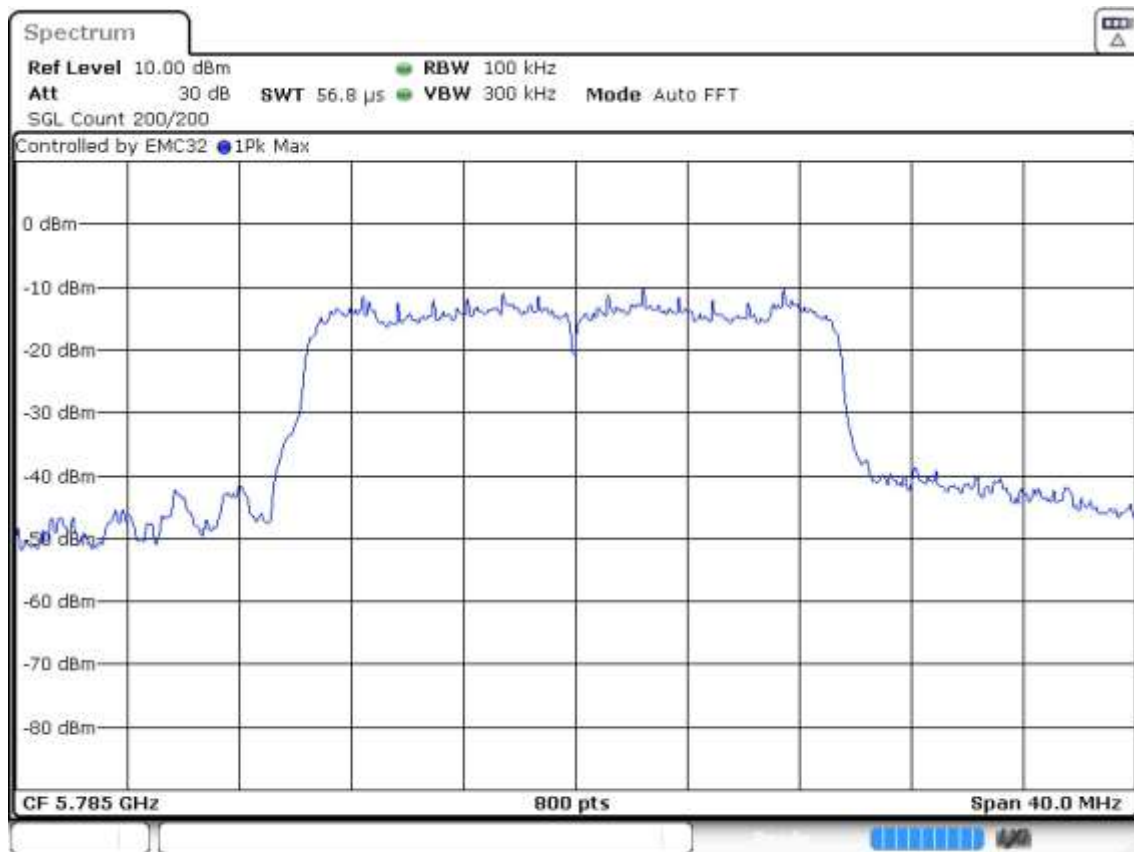
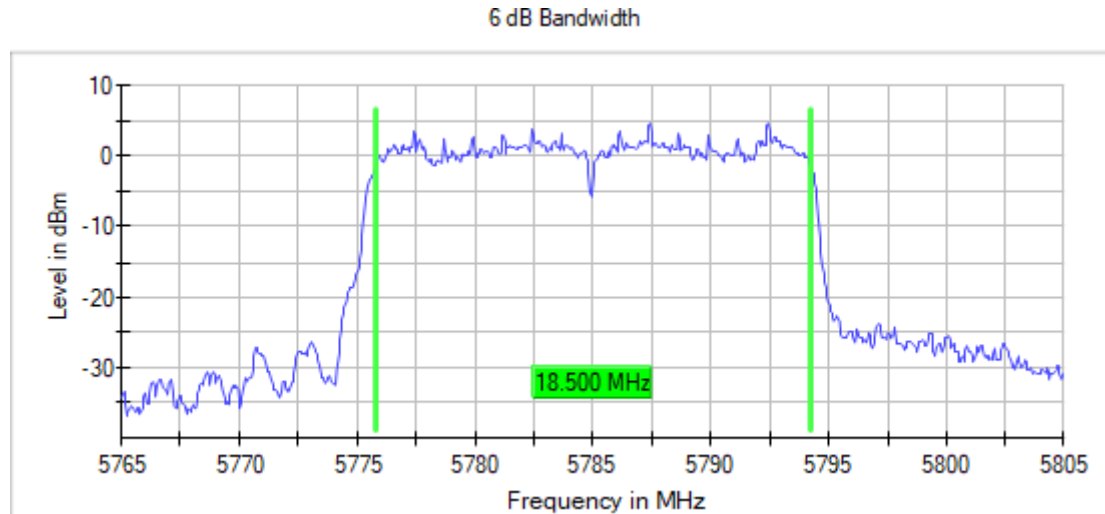
Date: 11.SEP.2023 16:23:30

Operation Band MHz = [5150, 5850] Active Port = 1

Frequency MHz = 5785.00000 Modulation = 802.11ax HE20 SS1 (OFDMA MCS0)

MIMO Mode = SISO

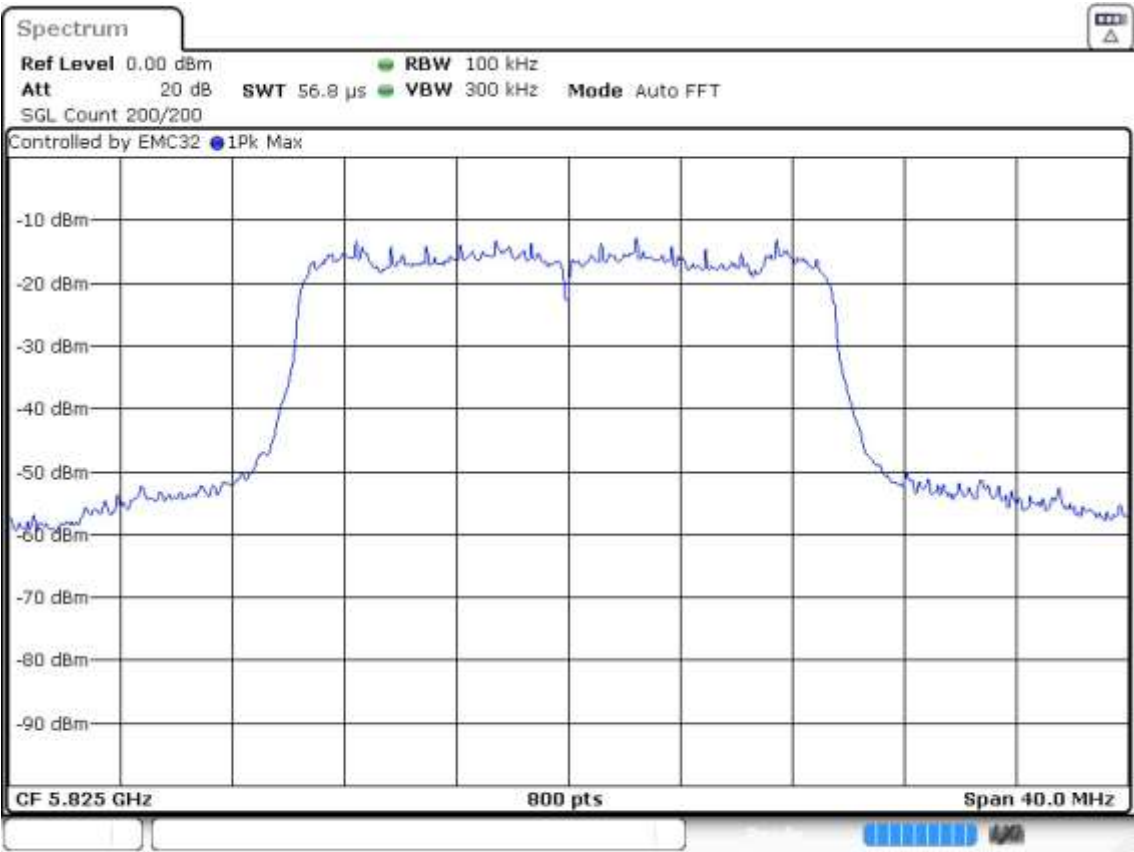
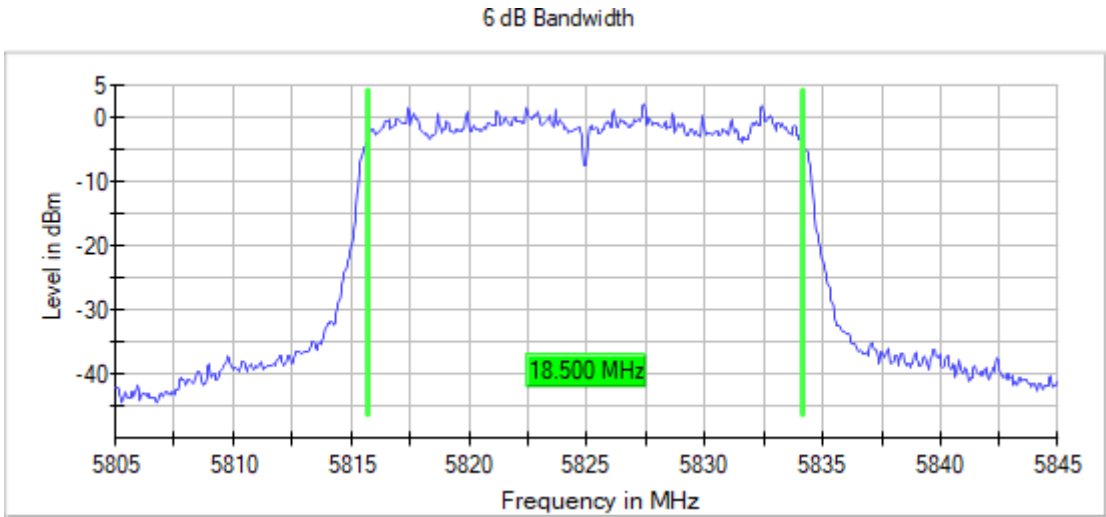
Images:



Date: 11.SEP.2023 16:41:36

Operation Band MHz = [5150, 5850] Active Port = 1
Frequency MHz = 5825.00000 Modulation = 802.11ax HE20 SS1 (OFDMA MCS0)
MIMO Mode = SISO

Images:



Date: 11.SEP.2023 16:55:53

Modulation: 802.11ac VHT40 SS1 (OFDM MCS0)

MIMO Mode: SISO

Results

Operation Band (MHz)	Port	Freq (MHz)	Ebw (MHz)
[5150, 5850]	1	5755.00000	35.800
		5795.00000	35.650

Verdict

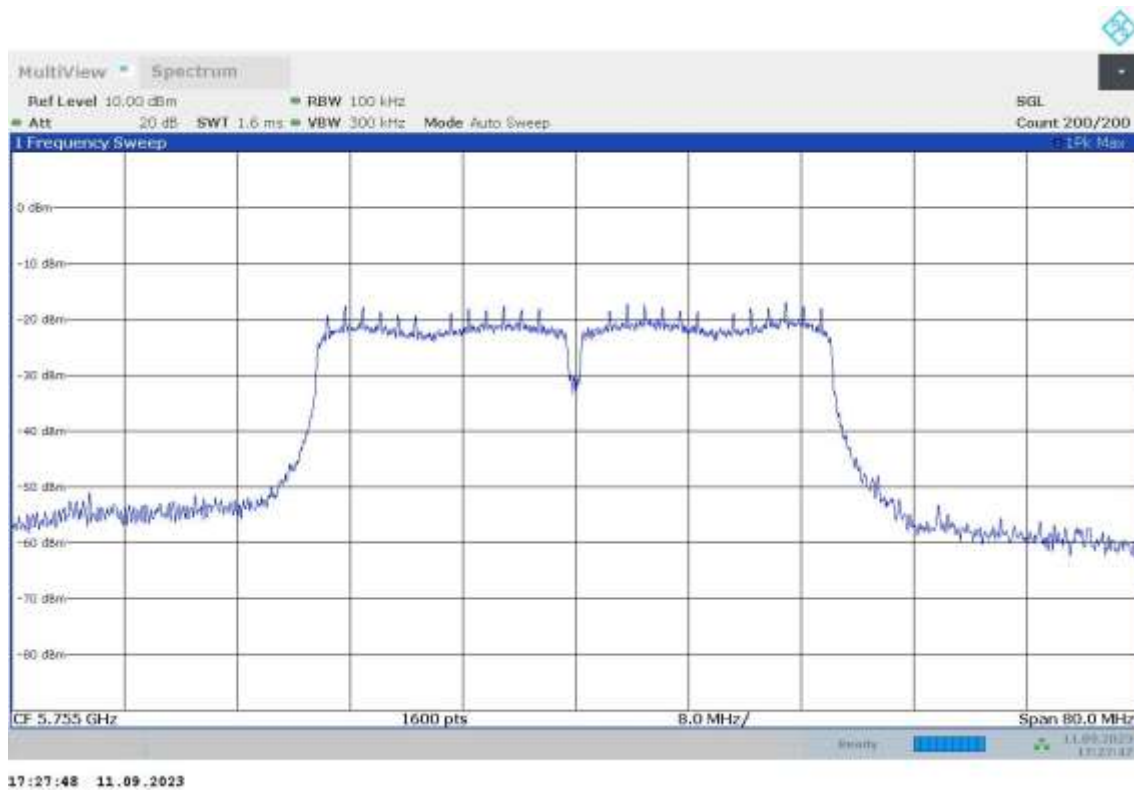
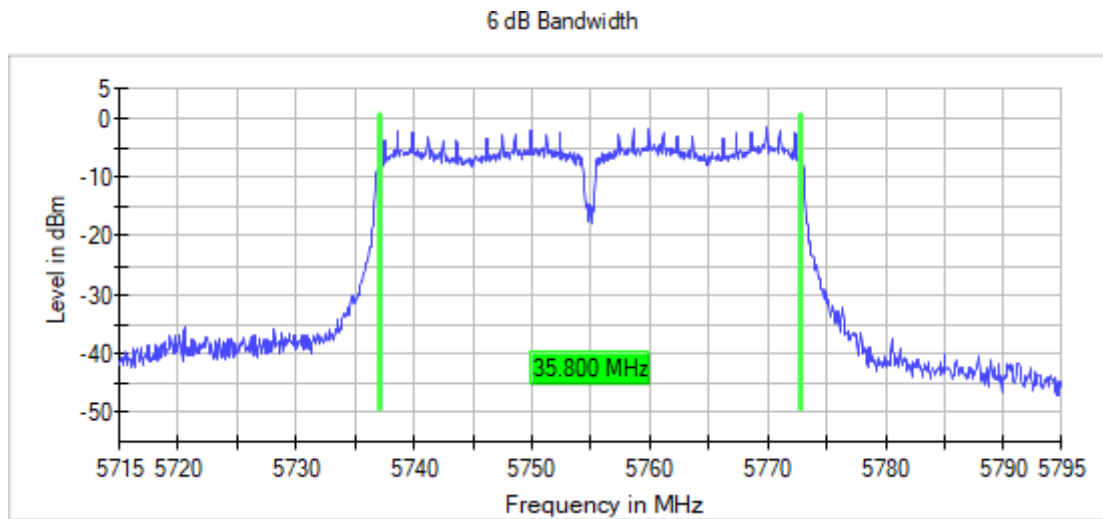
Pass

Operation Band MHz = [5150, 5850] Active Port = 1

Frequency MHz = 5755.00000 Modulation = 802.11ac VHT40 SS1 (OFDM MCS0)

MIMO Mode = SISO

Images:



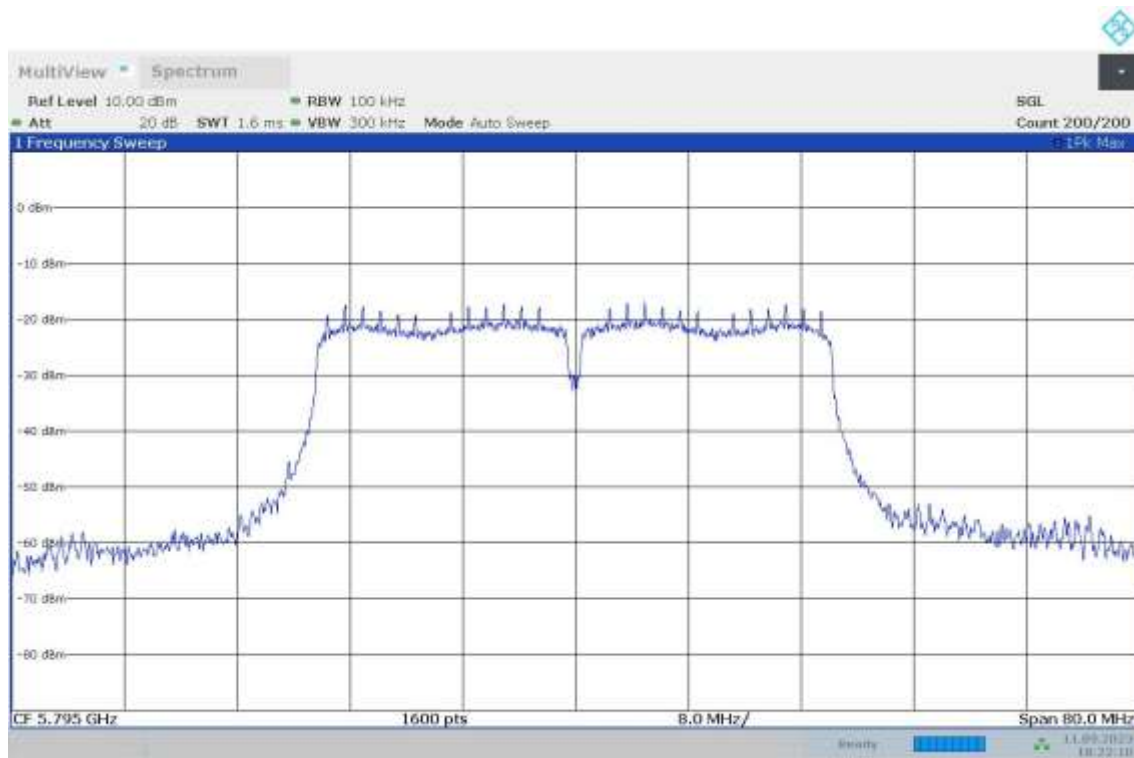
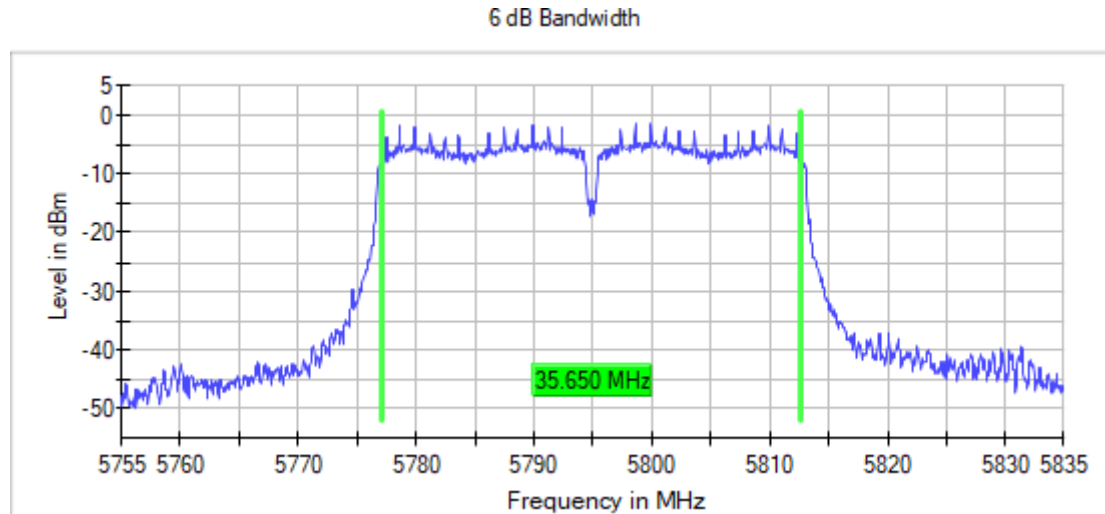
Operation Band MHz = [5150, 5850] Active Port = 1

Frequency MHz = 5795.00000

Modulation = 802.11ac VHT40 SS1 (OFDM MCS0)

MIMO Mode = SISO

Images:



18:22:10 11.09.2023

Modulation: 802.11ax HE40 SS1 (OFDMA MCS0)

MIMO Mode: SISO

Results

Operation Band (MHz)	Port	Freq (MHz)	Ebw (MHz)
[5150, 5850]	1	5755.00000	37.400
		5795.00000	37.200

Verdict

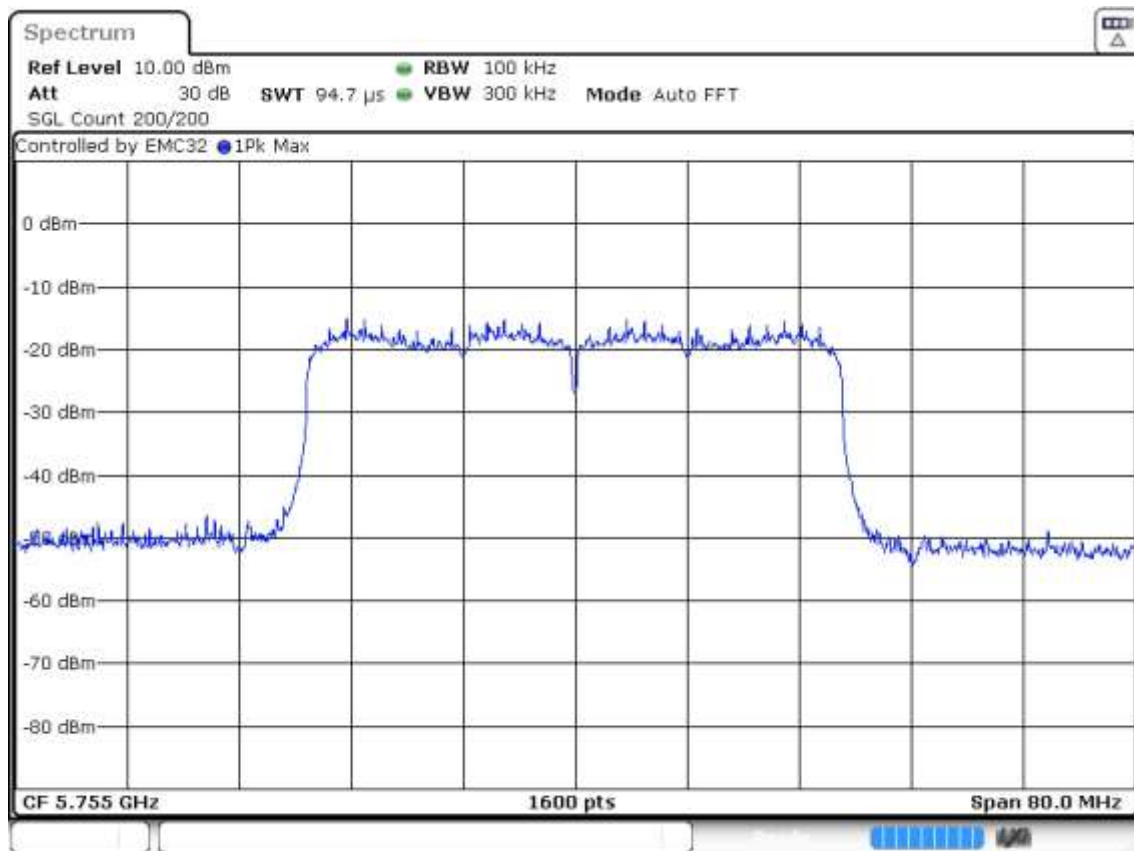
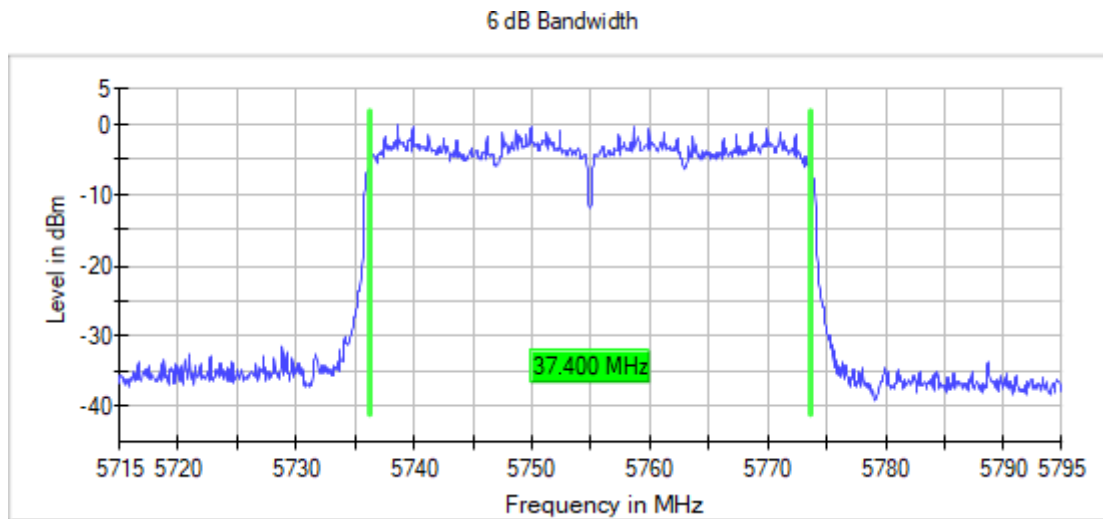
Pass

Operation Band MHz = [5150, 5850] Active Port = 1

Frequency MHz = 5755.00000 Modulation = 802.11ax HE40 SS1 (OFDMA MCS0)

MIMO Mode = SISO

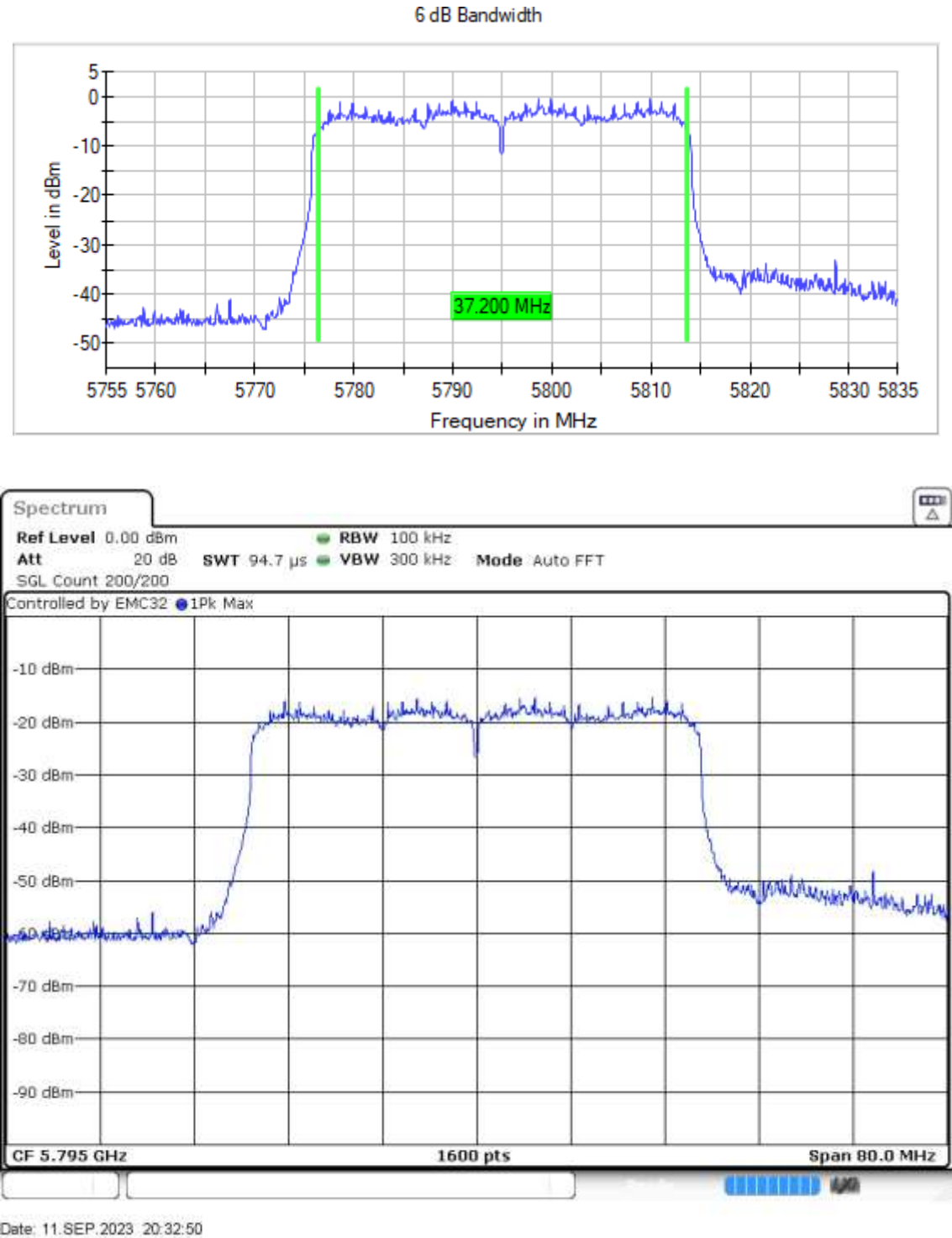
Images:



Date: 11.SEP.2023 19:53:15

Operation Band MHz = [5150, 5850] Active Port = 1
Frequency MHz = 5795.00000 Modulation = 802.11ax HE40 SS1 (OFDMA MCS0)
MIMO Mode = SISO

Images:



Modulation: 802.11ac VHT80 SS1 (OFDM MCS0)

MIMO Mode: SISO

Results

Operation Band (MHz)	Port	Freq (MHz)	Ebw (MHz)
[5150, 5850]	1	5775.00000	76.150

Verdict

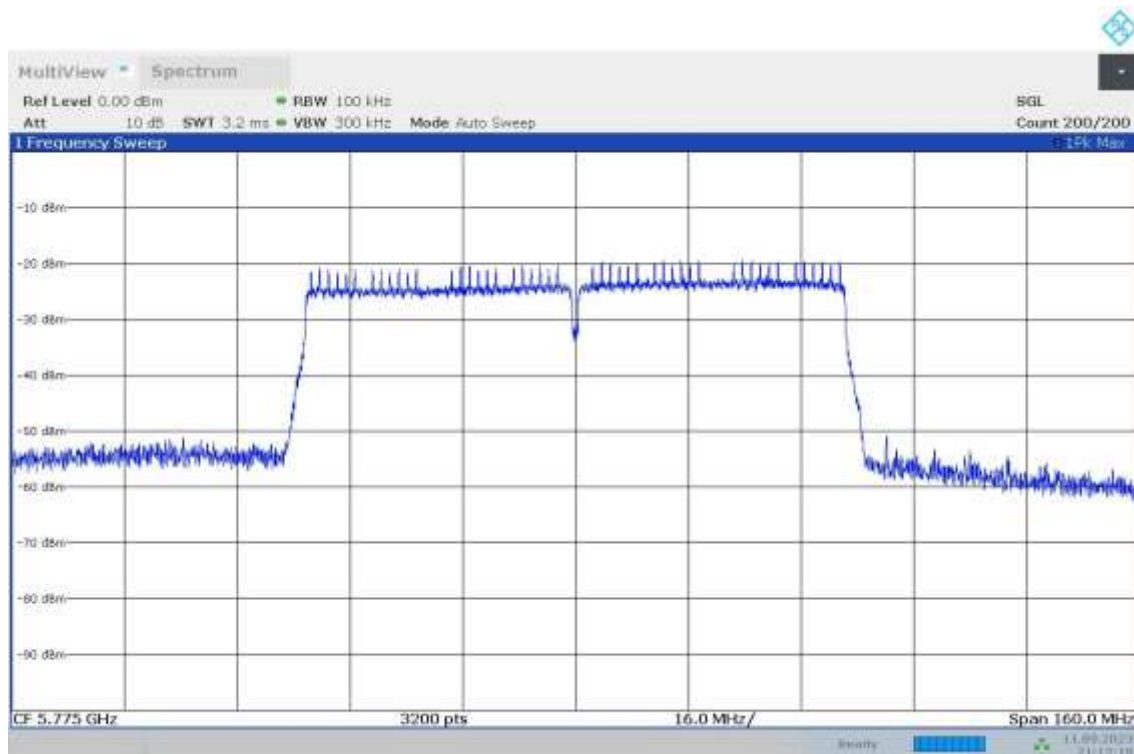
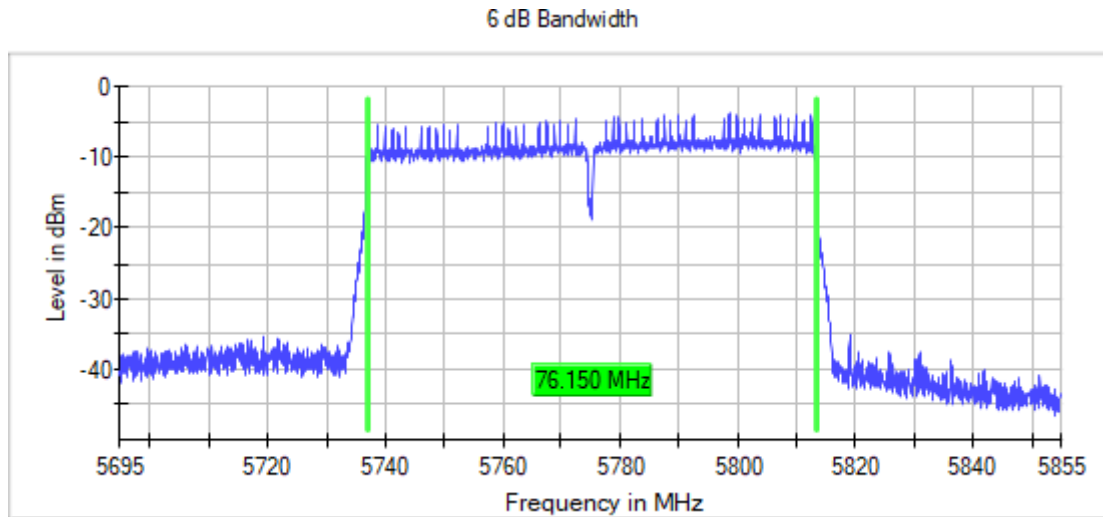
Pass

Operation Band MHz = [5150, 5850] Active Port = 1

Frequency MHz = 5775.00000 Modulation = 802.11ac VHT80 SS1 (OFDM MCS0)

MIMO Mode = SISO

Images:



Modulation: 802.11ax HE80 SS1 (OFDMA MCS0)

MIMO Mode: SISO

Results

Operation Band (MHz)	Port	Freq (MHz)	Ebw (MHz)
[5150, 5850]	1	5775.00000	78.150

Verdict

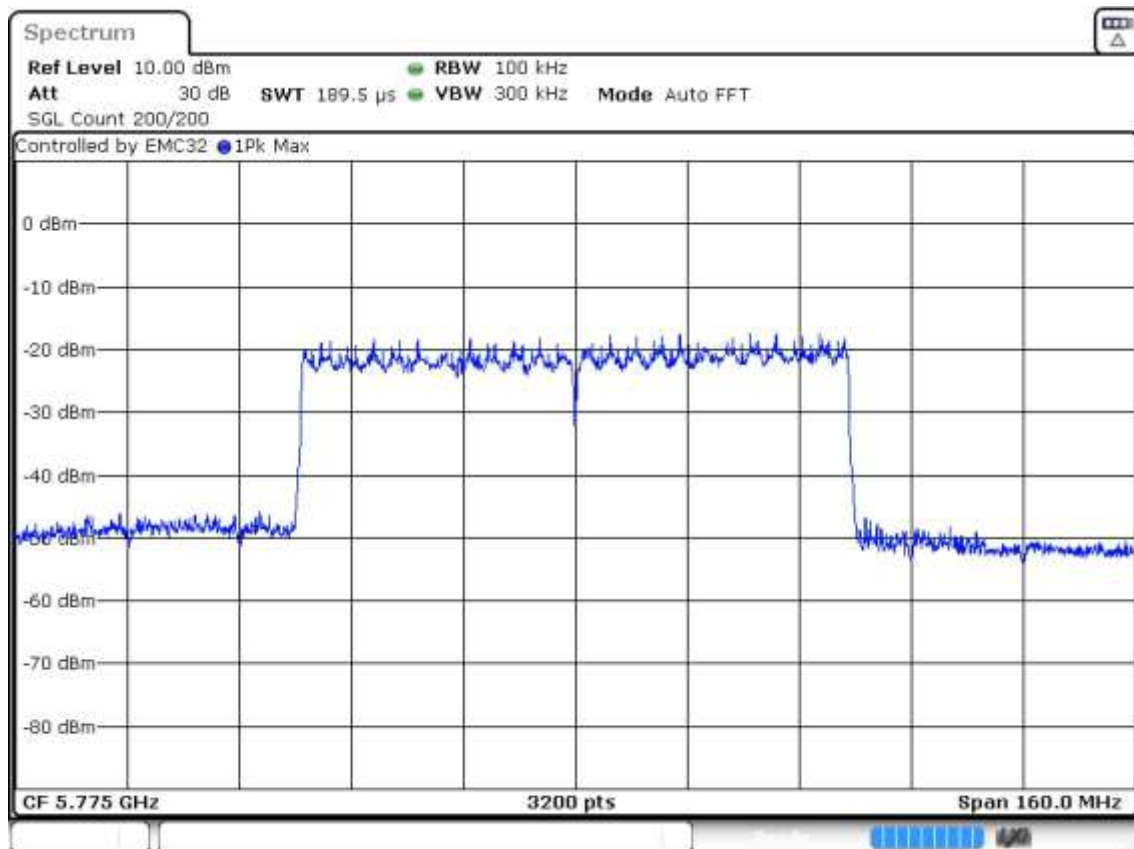
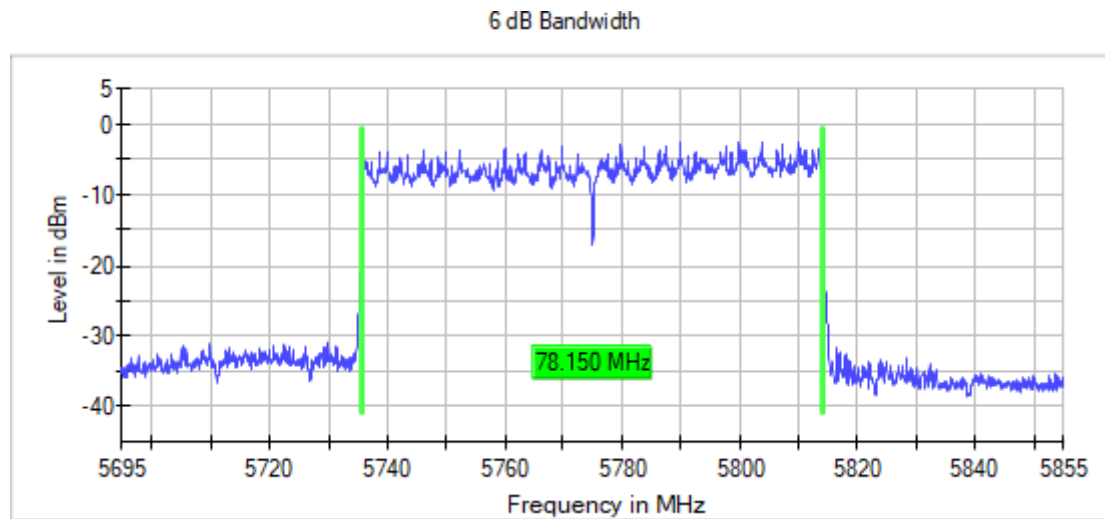
Pass

Operation Band MHz = [5150, 5850] Active Port = 1

Frequency MHz = 5775.00000 Modulation = 802.11ax HE80 SS1 (OFDMA MCS0)

MIMO Mode = SISO

Images:



Date: 12 SEP.2023 11:51:10

Modulation: 802.11a (OFDM 6 Mbit/s)

MIMO Mode: SISO

Results

Operation Band (MHz)	Port	Freq (MHz)	Ebw (MHz)
[5150, 5850]	1	5745.00000	16.450
		5785.00000	16.400
		5825.00000	16.450

Verdict

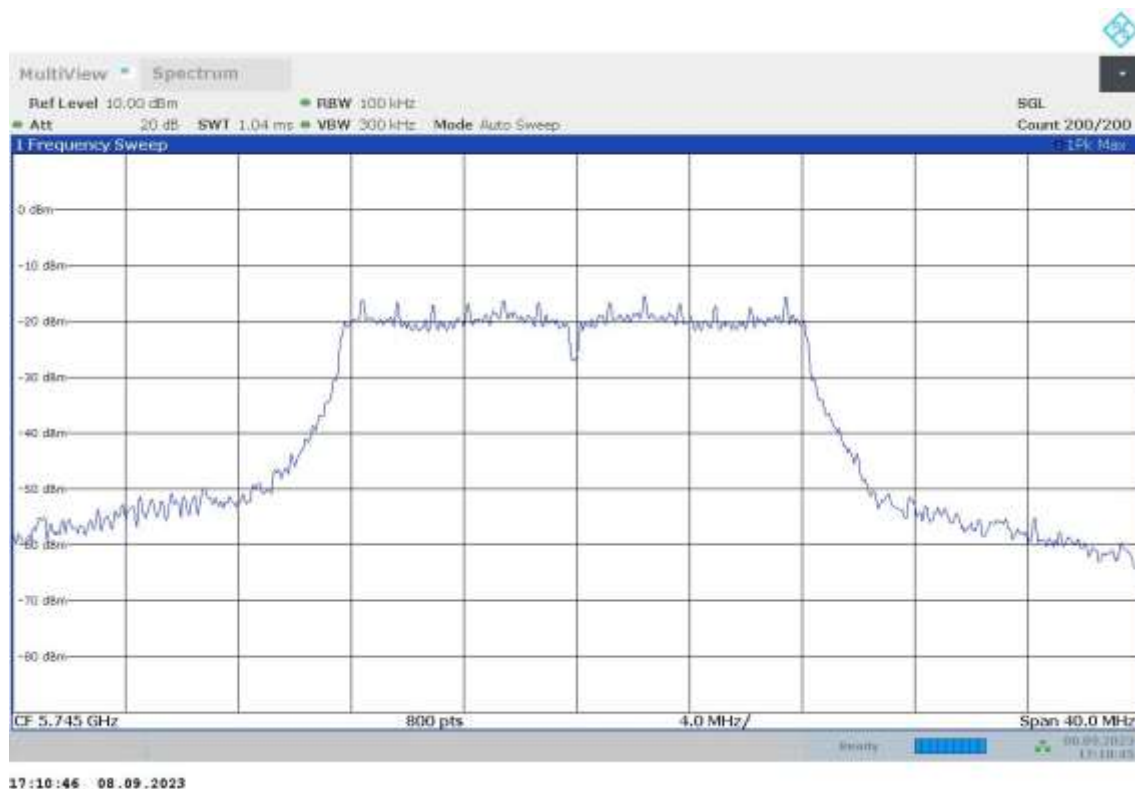
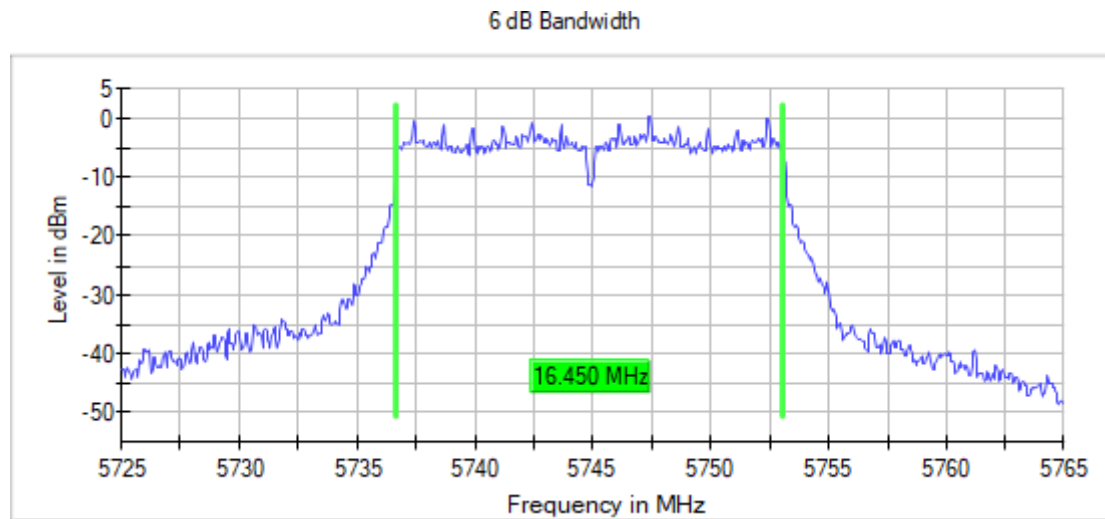
Pass

Operation Band MHz = [5150, 5850] Active Port = 1

Frequency MHz = 5745.00000 Modulation = 802.11a (OFDM 6 Mbit/s)

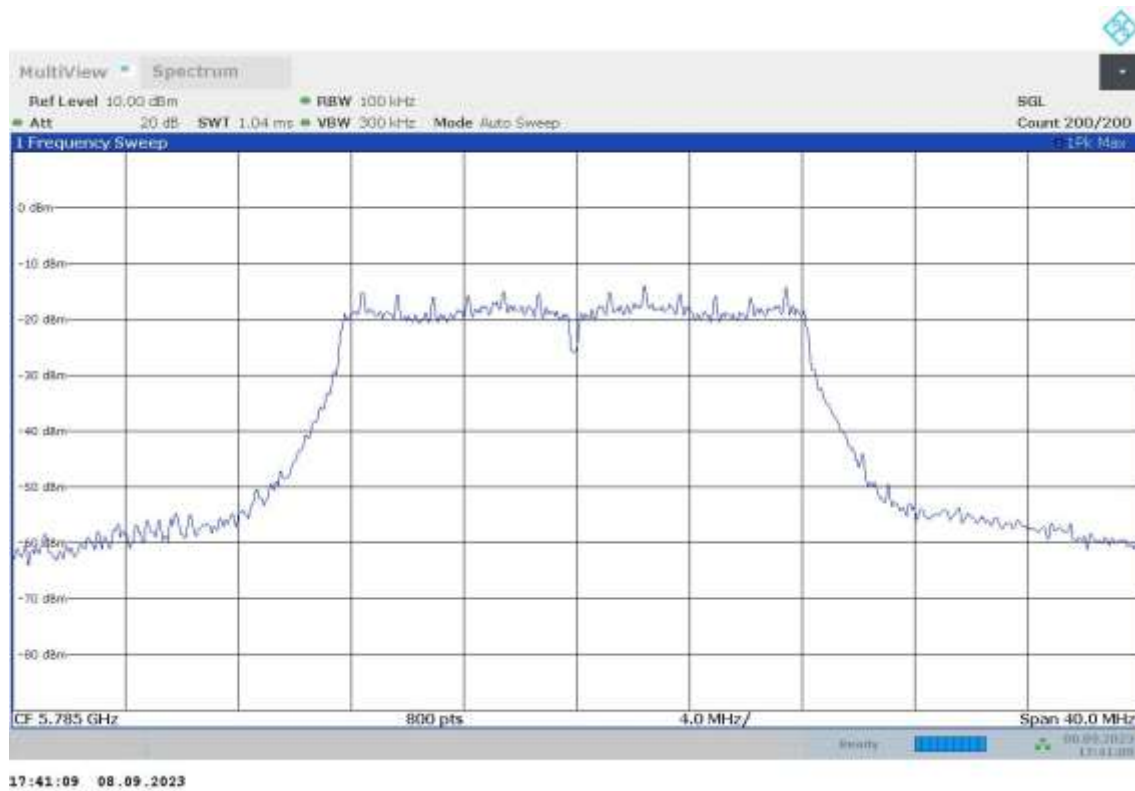
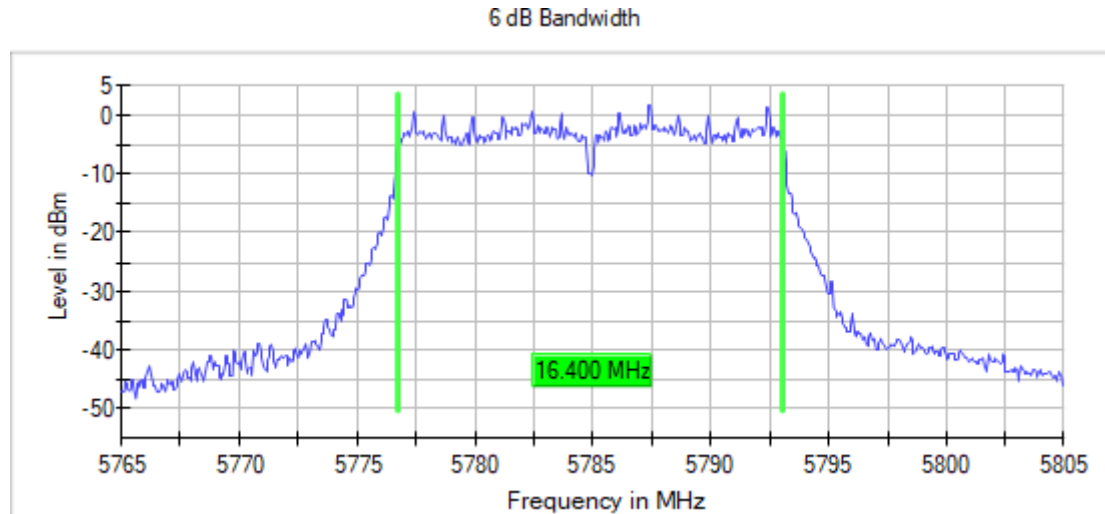
MIMO Mode = SISO

Images:



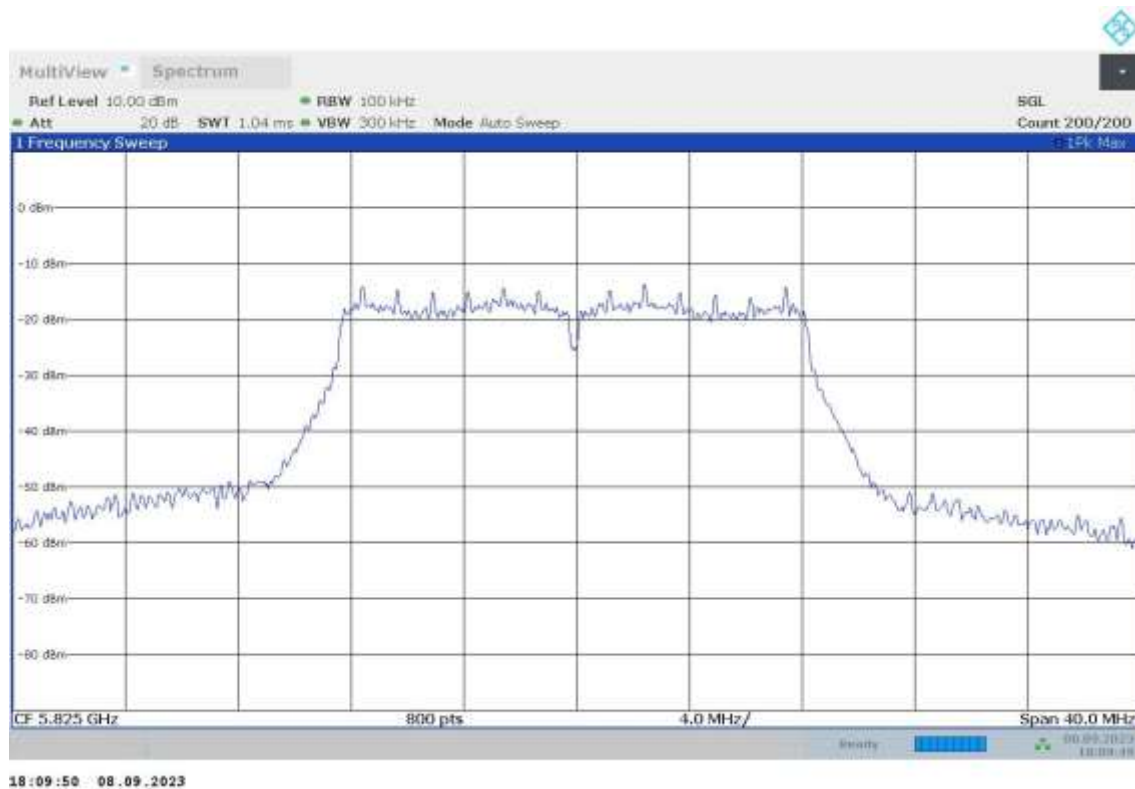
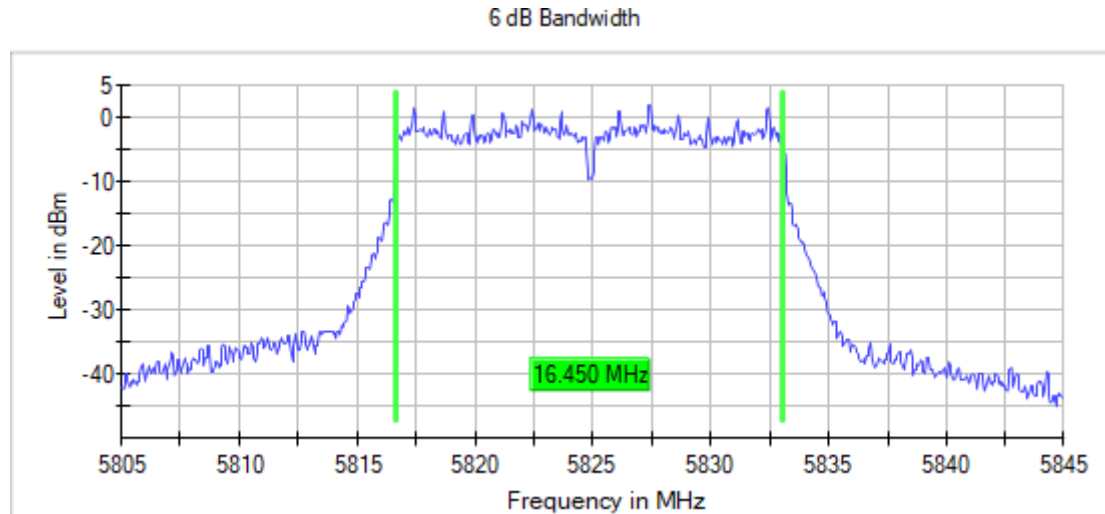
Operation Band MHz = [5150, 5850] Active Port = 1
Frequency MHz = 5785.00000 Modulation = 802.11a (OFDM 6 Mbit/s)
MIMO Mode = SISO

Images:



Operation Band MHz = [5150, 5850] Active Port = 1
Frequency MHz = 5825.00000 Modulation = 802.11a (OFDM 6 Mbit/s)
MIMO Mode = SISO

Images:



Modulation: 802.11n HT20 (OFDM MCS0)

MIMO Mode: SISO

Results

Operation Band (MHz)	Port	Freq (MHz)	Ebw (MHz)
[5150, 5850]	1	5745.00000	17.600
		5785.00000	17.400
		5825.00000	17.400

Verdict

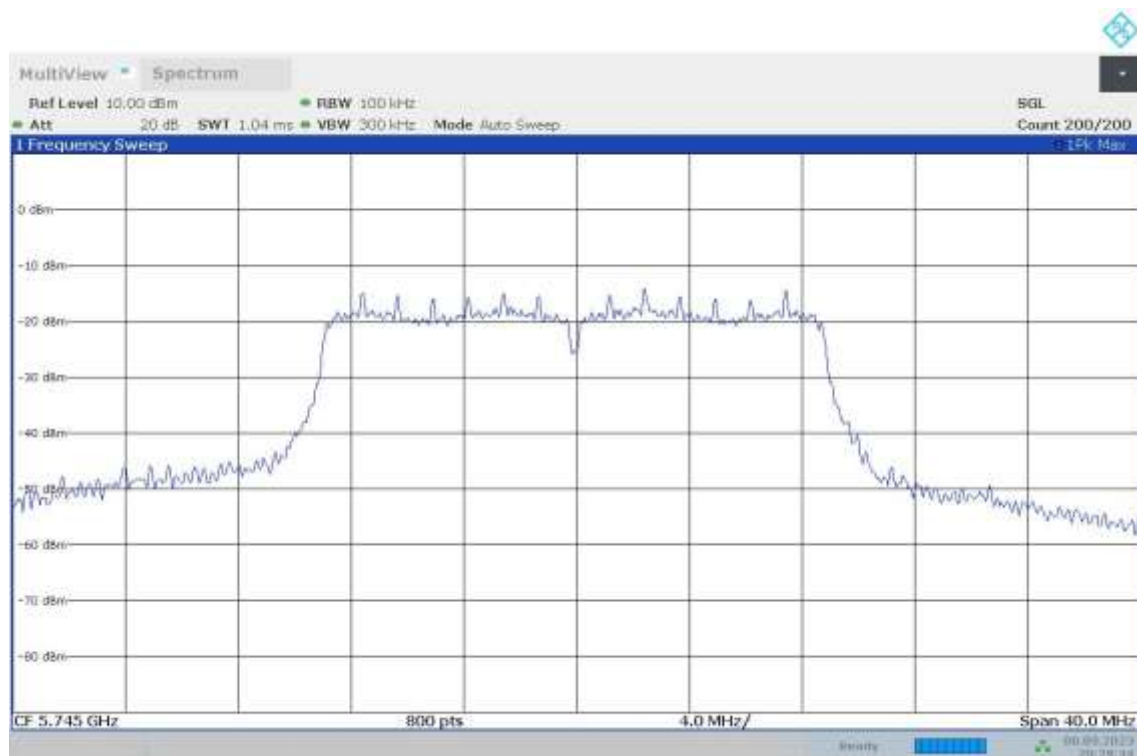
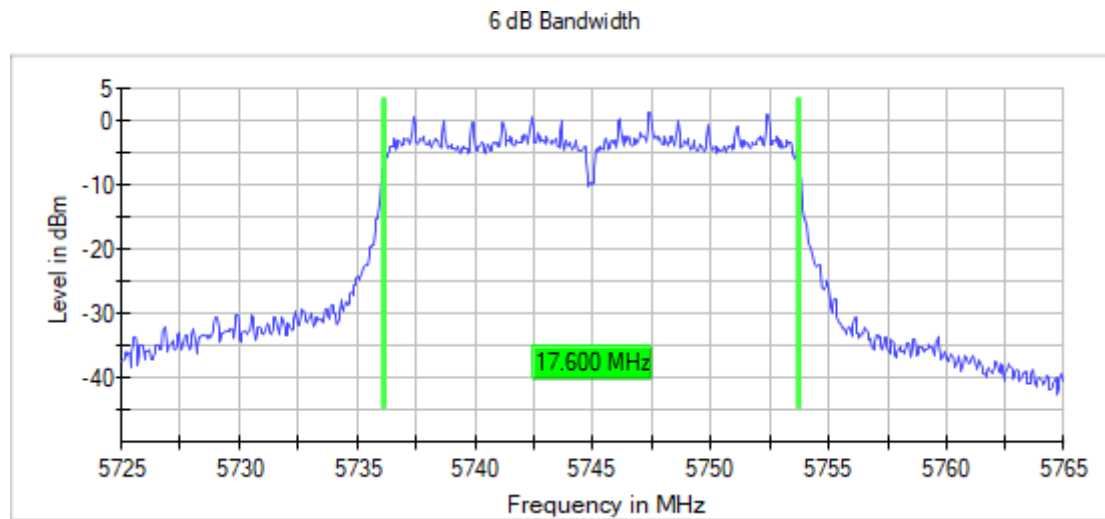
Pass

Operation Band MHz = [5150, 5850] Active Port = 1

Frequency MHz = 5745.00000 Modulation = 802.11n HT20 (OFDM MCS0)

MIMO Mode = SISO

Images:



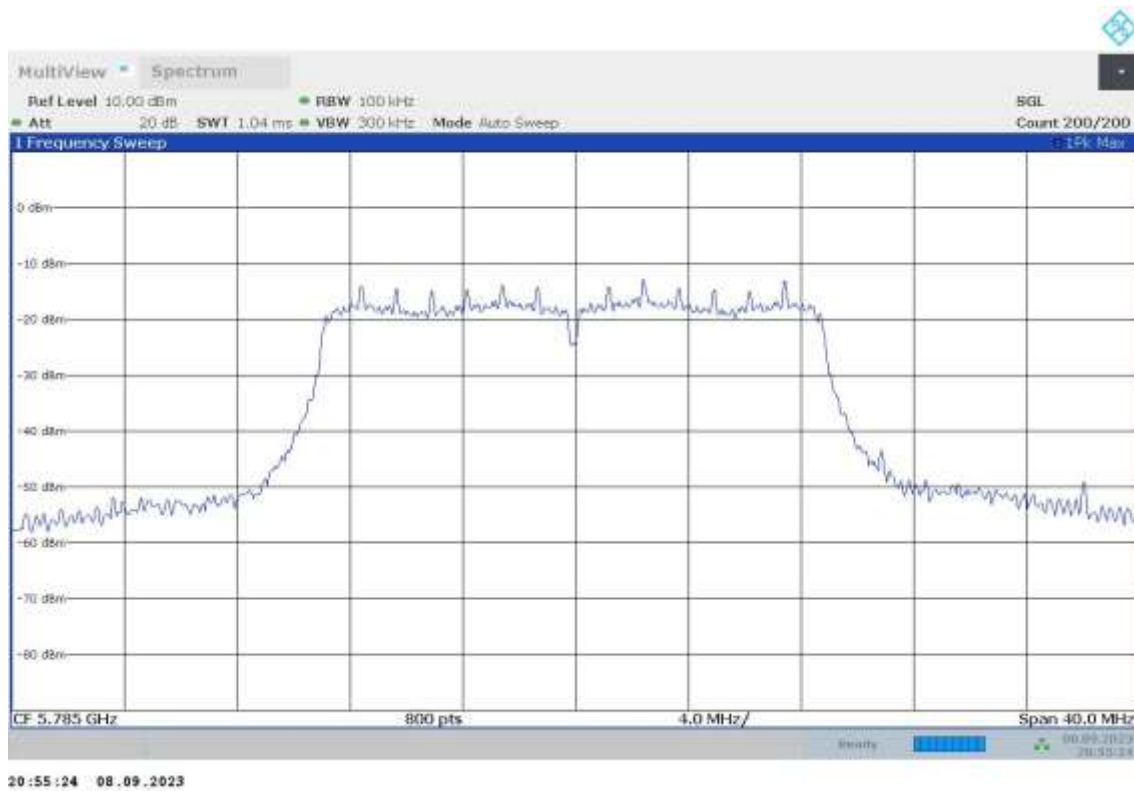
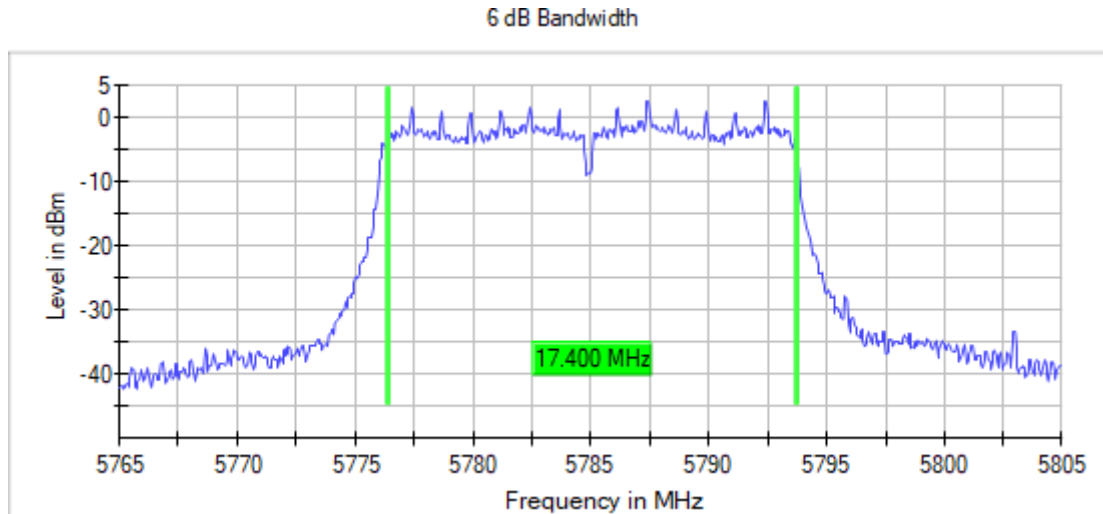
Operation Band MHz = [5150, 5850] Active Port = 1

Frequency MHz = 5785.00000

Modulation = 802.11n HT20 (OFDM MCS0)

MIMO Mode = SISO

Images:



Operation Band MHz = [5150, 5850] Active Port = 1

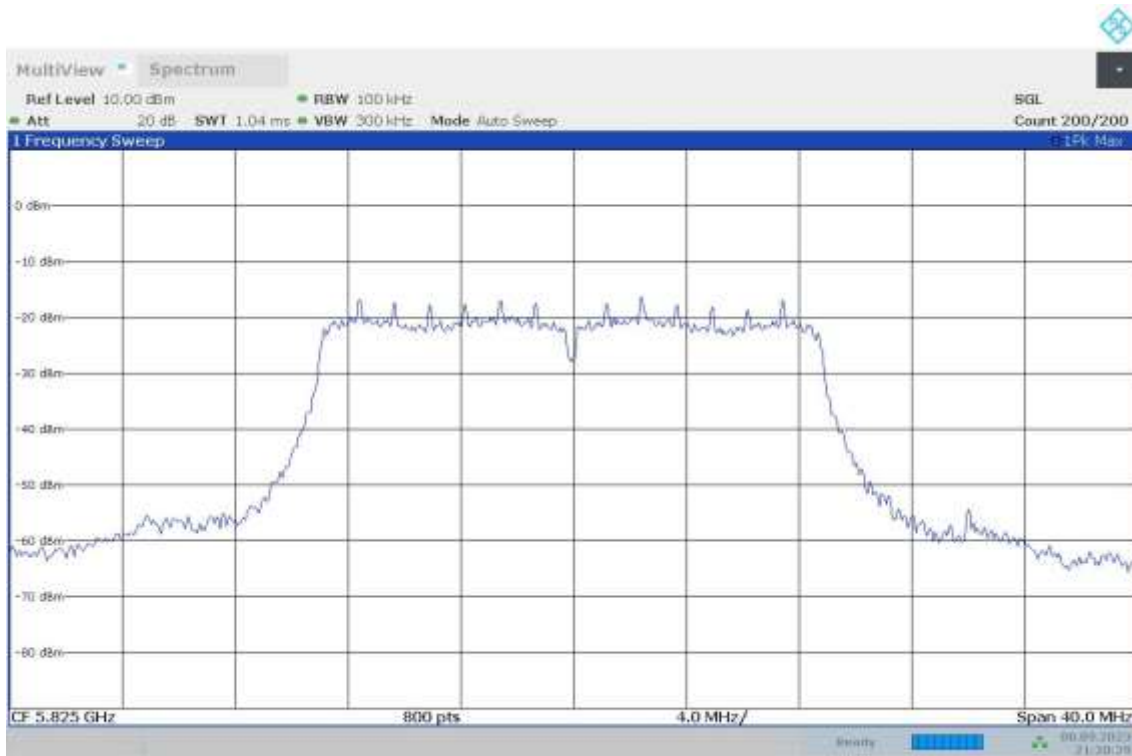
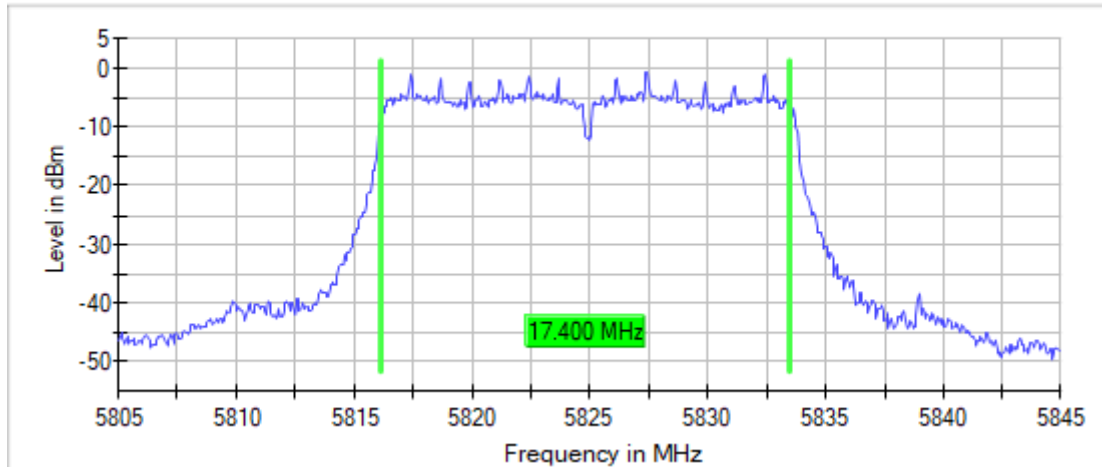
Frequency MHz = 5825.00000

Modulation = 802.11n HT20 (OFDM MCS0)

MIMO Mode = SISO

Images:

6 dB Bandwidth



21:20:29 08.09.2023

Modulation: 802.11n HT40 (OFDM MCS0)

MIMO Mode: SISO

Results

Operation Band (MHz)	Port	Freq (MHz)	Ebw (MHz)
[5150, 5850]	1	5755.00000	35.900
		5795.00000	35.750

Verdict

Pass

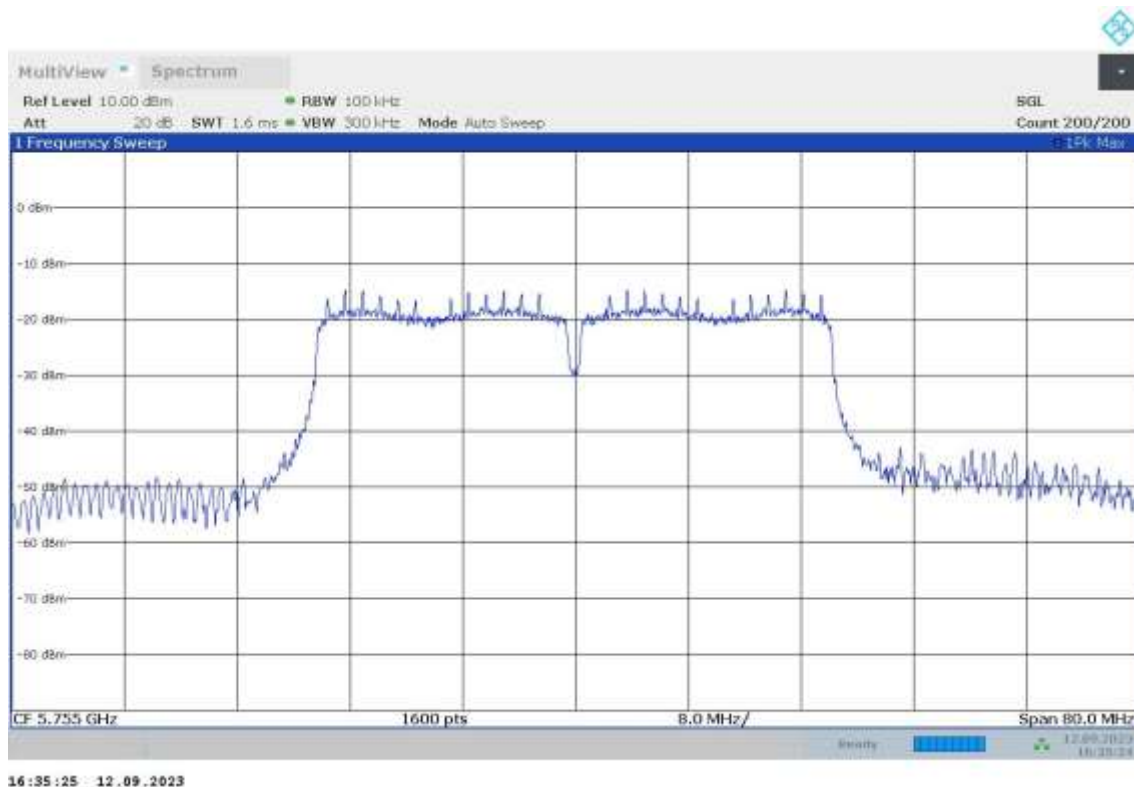
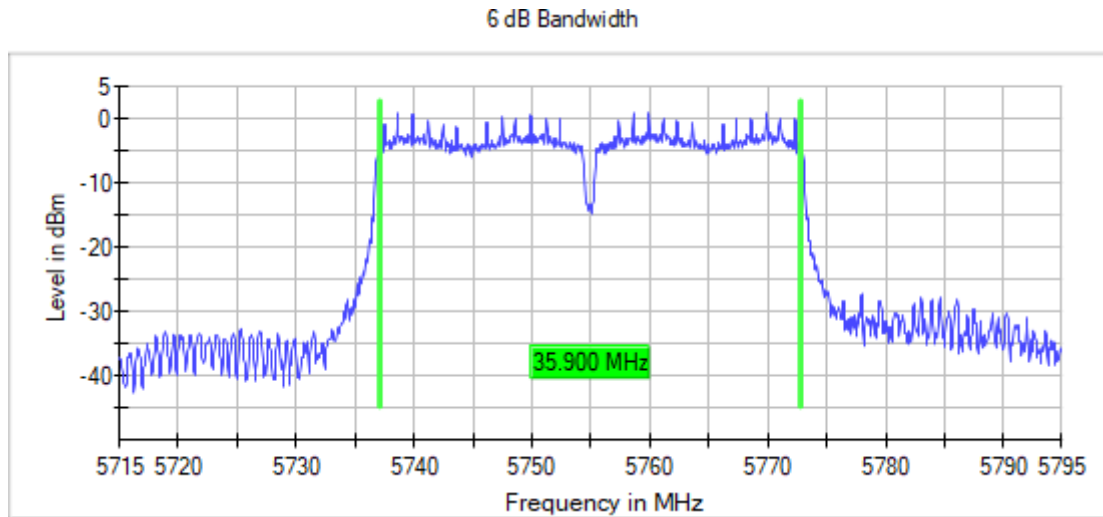
Operation Band MHz = [5150, 5850] Active Port = 1

Frequency MHz = 5755.00000

Modulation = 802.11n HT40 (OFDM MCS0)

MIMO Mode = SISO

Images:



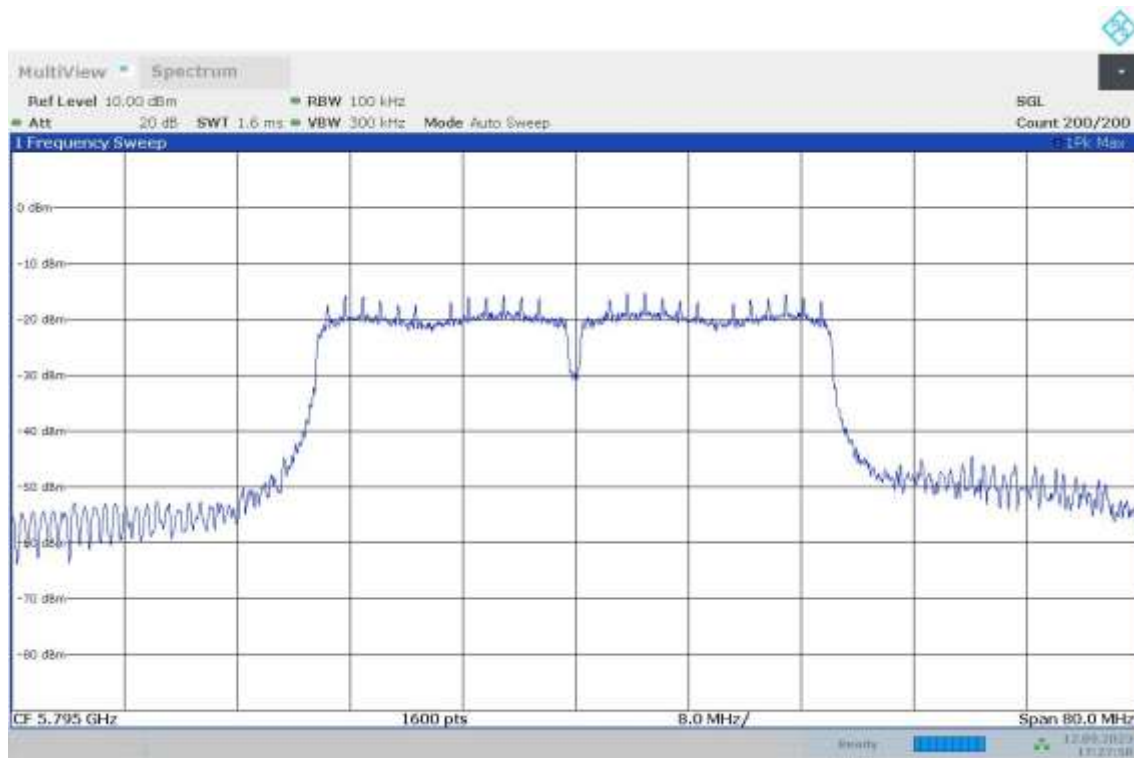
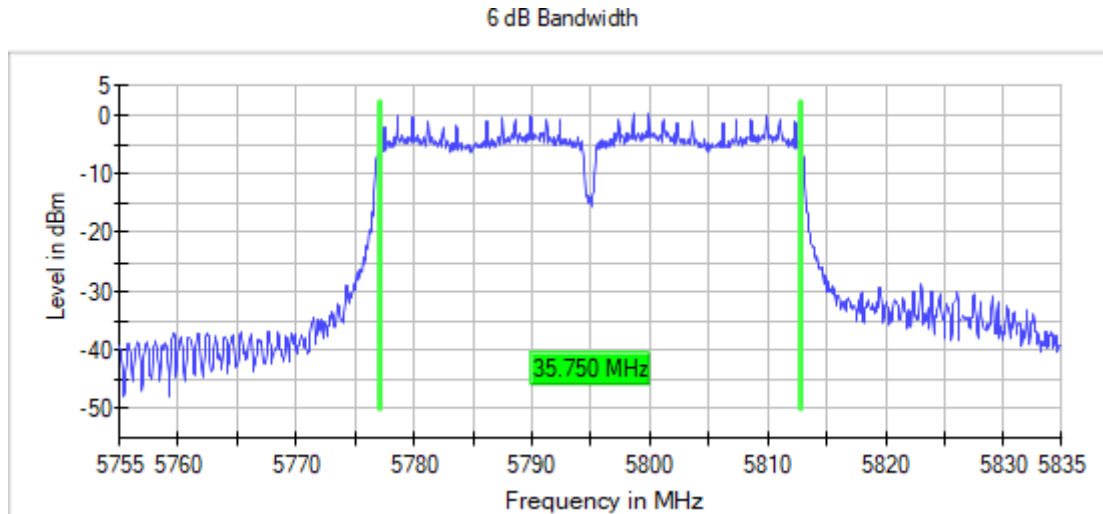
Operation Band MHz = [5150, 5850] Active Port = 1

Frequency MHz = 5795.00000

Modulation = 802.11n HT40 (OFDM MCS0)

MIMO Mode = SISO

Images:



FCC 15.407 (b) / RSS-247 6.2 Band-edge Conducted Emissions

Limits

For transmitters operating in the 5.725–5.85 GHz band:
All emissions shall be limited to a level of –27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

Modulation: 802.11ac VHT20 SS1 (OFDM MCS0)

MIMO Mode: SISO

Results

U-NII-1

DUT Frequency	Result
5180.000000	PASS

DUT Frequency	Result
5240.000000	PASS

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
5148.250000	-42.2	15.2	-27.0	PASS
5149.250000	-42.5	15.5	-27.0	PASS
5148.750000	-43.1	16.1	-27.0	PASS
5147.250000	-43.6	16.6	-27.0	PASS
5147.750000	-43.6	16.6	-27.0	PASS
5145.250000	-43.9	16.9	-27.0	PASS
5149.750000	-44.0	17.0	-27.0	PASS
5146.750000	-44.1	17.1	-27.0	PASS
5139.750000	-44.2	17.2	-27.0	PASS
5145.750000	-44.2	17.2	-27.0	PASS
5140.250000	-44.2	17.2	-27.0	PASS
5134.250000	-44.3	17.3	-27.0	PASS
5144.250000	-44.4	17.4	-27.0	PASS
5143.750000	-44.5	17.5	-27.0	PASS
5146.250000	-44.5	17.5	-27.0	PASS

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
5367.250000	-53.1	26.1	-27.0	PASS
5378.750000	-53.2	26.2	-27.0	PASS
5373.750000	-53.3	26.3	-27.0	PASS
5379.250000	-53.4	26.4	-27.0	PASS
5365.750000	-53.5	26.5	-27.0	PASS
5377.250000	-53.5	26.5	-27.0	PASS
5363.750000	-53.6	26.6	-27.0	PASS
5374.750000	-53.6	26.6	-27.0	PASS
5365.250000	-53.7	26.7	-27.0	PASS
5355.750000	-53.8	26.8	-27.0	PASS
5366.250000	-53.9	26.9	-27.0	PASS
5366.750000	-54.1	27.1	-27.0	PASS
5376.750000	-54.2	27.2	-27.0	PASS
5356.750000	-54.3	27.3	-27.0	PASS
5358.250000	-54.3	27.3	-27.0	PASS

U-NII-3

DUT Frequency	Result
5745.000000	PASS

DUT Frequency	Result
5825.000000	PASS

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
5649.750000	-51.8	24.8	-27.0	PASS
5649.250000	-51.9	24.9	-27.0	PASS
5639.250000	-52.4	25.4	-27.0	PASS
5638.750000	-52.6	25.6	-27.0	PASS
5644.750000	-52.7	25.7	-27.0	PASS
5645.750000	-52.7	25.7	-27.0	PASS
5638.250000	-52.7	25.7	-27.0	PASS
5647.250000	-52.9	25.9	-27.0	PASS
5646.250000	-52.9	25.9	-27.0	PASS
5645.250000	-53.1	26.1	-27.0	PASS
5647.750000	-53.4	26.4	-27.0	PASS
5630.750000	-53.4	26.4	-27.0	PASS
5642.750000	-53.4	26.4	-27.0	PASS
5627.250000	-53.5	26.5	-27.0	PASS
5646.750000	-53.6	26.6	-27.0	PASS

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
5942.750000	-53.2	26.2	-27.0	PASS
6005.750000	-53.2	26.2	-27.0	PASS
5931.250000	-53.3	26.3	-27.0	PASS
5991.250000	-53.3	26.3	-27.0	PASS
5980.250000	-53.5	26.5	-27.0	PASS
5925.750000	-53.5	26.5	-27.0	PASS
5965.750000	-53.6	26.6	-27.0	PASS
5928.750000	-53.6	26.6	-27.0	PASS
5927.250000	-53.7	26.7	-27.0	PASS
5925.250000	-53.7	26.7	-27.0	PASS
5930.250000	-53.7	26.7	-27.0	PASS
5928.250000	-53.7	26.7	-27.0	PASS
5990.250000	-53.8	26.8	-27.0	PASS
5949.750000	-53.8	26.8	-27.0	PASS
5951.750000	-53.8	26.8	-27.0	PASS

Verdict

Pass

Attachments

Operation Band MHz = [5150, 5850] Active Port = 1

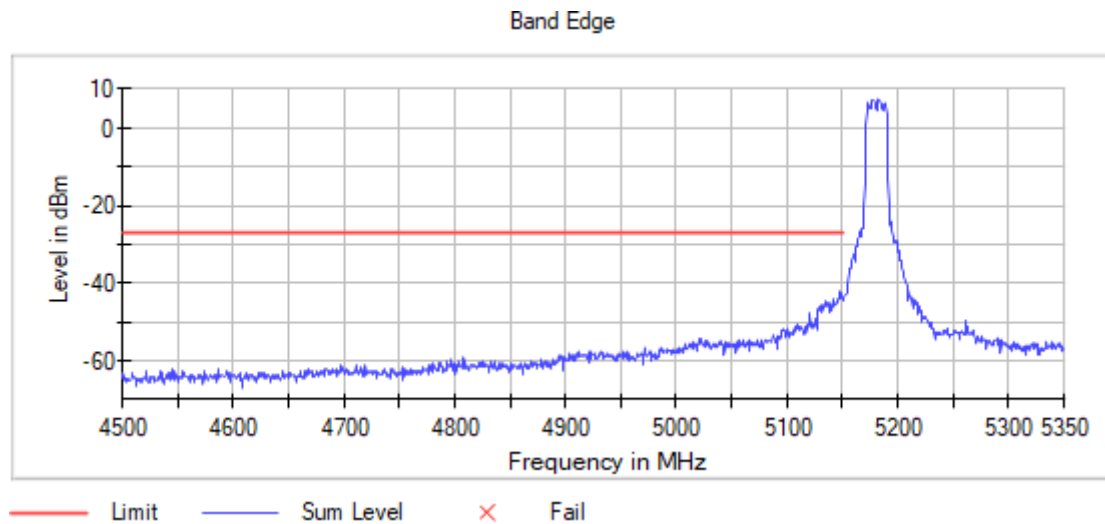
Frequency MHz = 5180.00000

Modulation = 802.11ac VHT20 SS1 (OFDM MCS0)

MIMO Mode = SISO

Measurement Point = 1

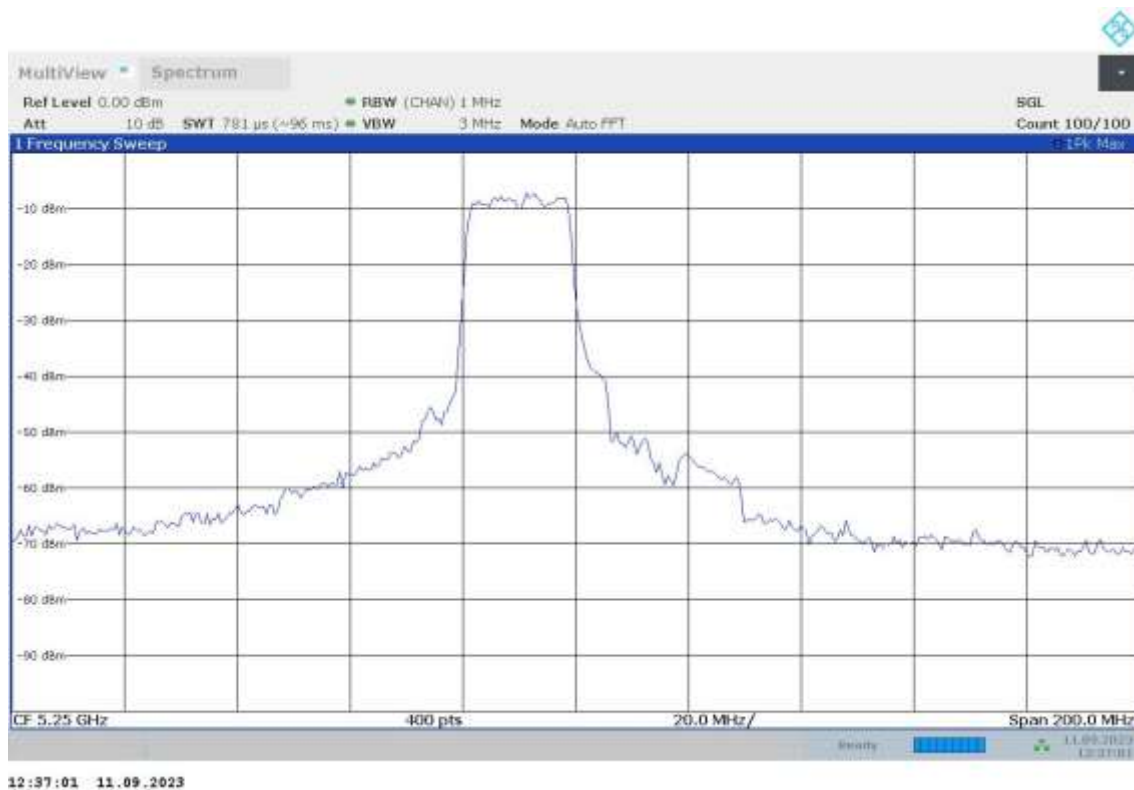
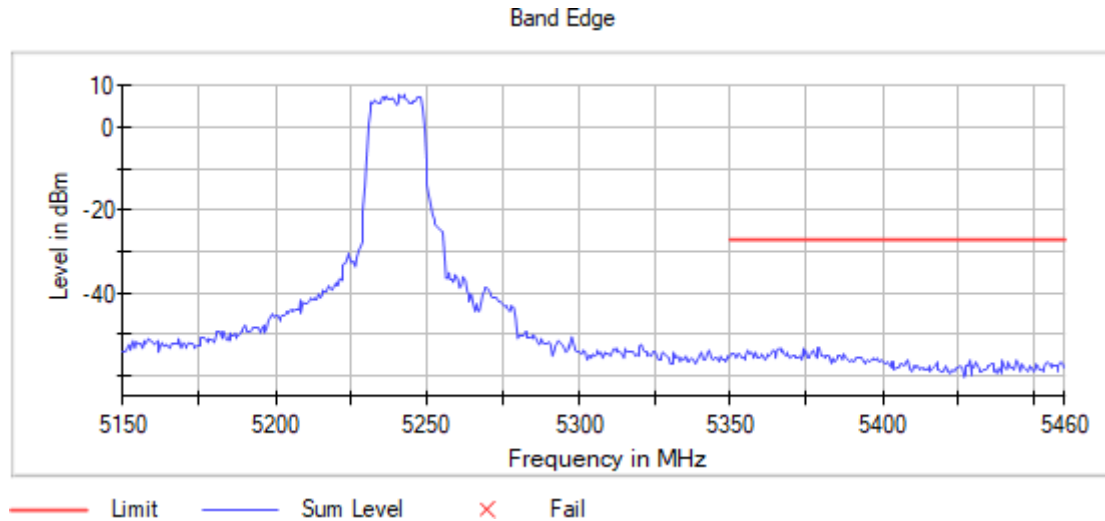
Images:

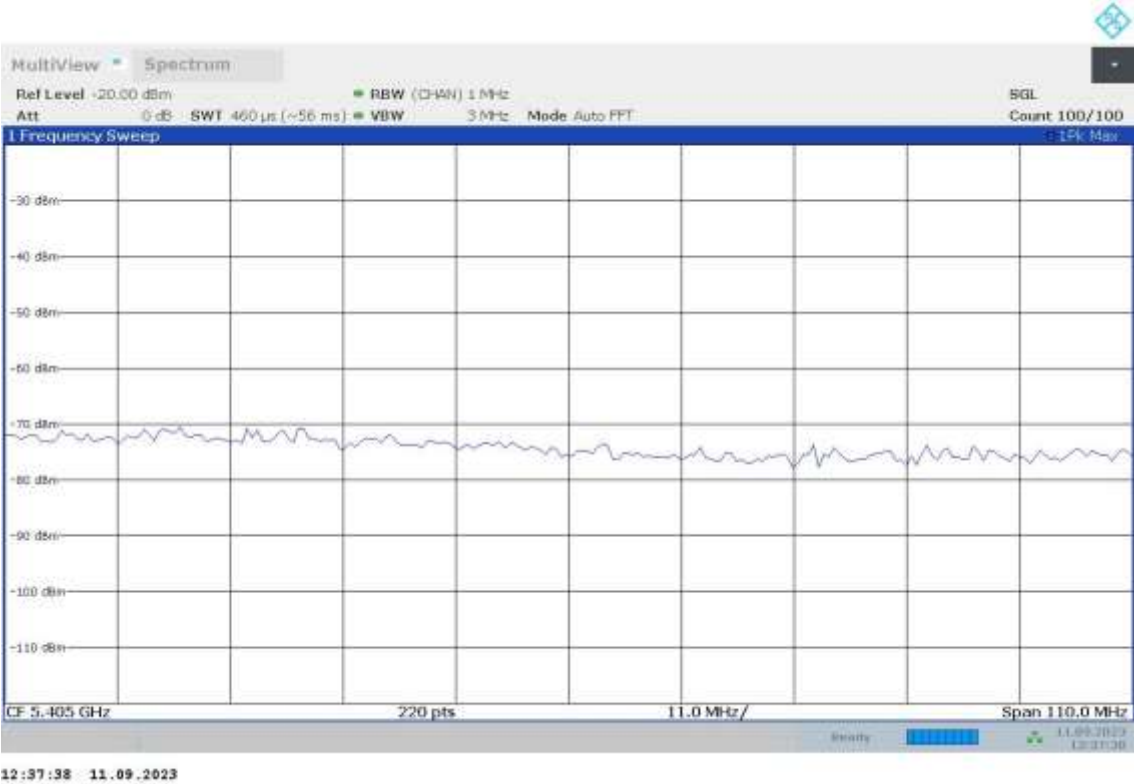




Operation Band MHz = [5150, 5850] Active Port = 1
Frequency MHz = 5240.00000 Modulation = 802.11ac VHT20 SS1 (OFDM MCS0)
MIMO Mode = SISO Measurement Point = 1

Images:





Operation Band MHz = [5150, 5850] Active Port = 1

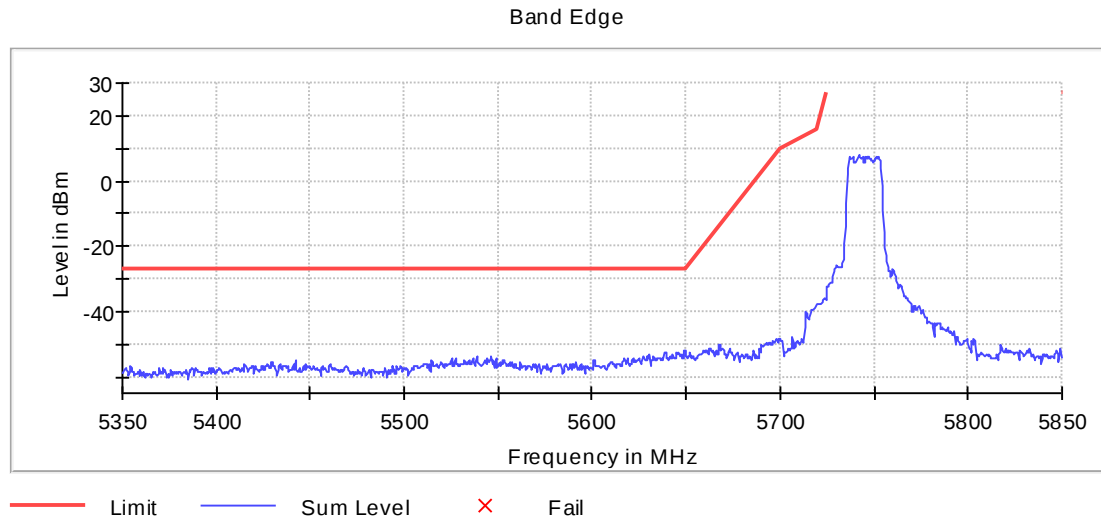
Frequency MHz = 5745.00000

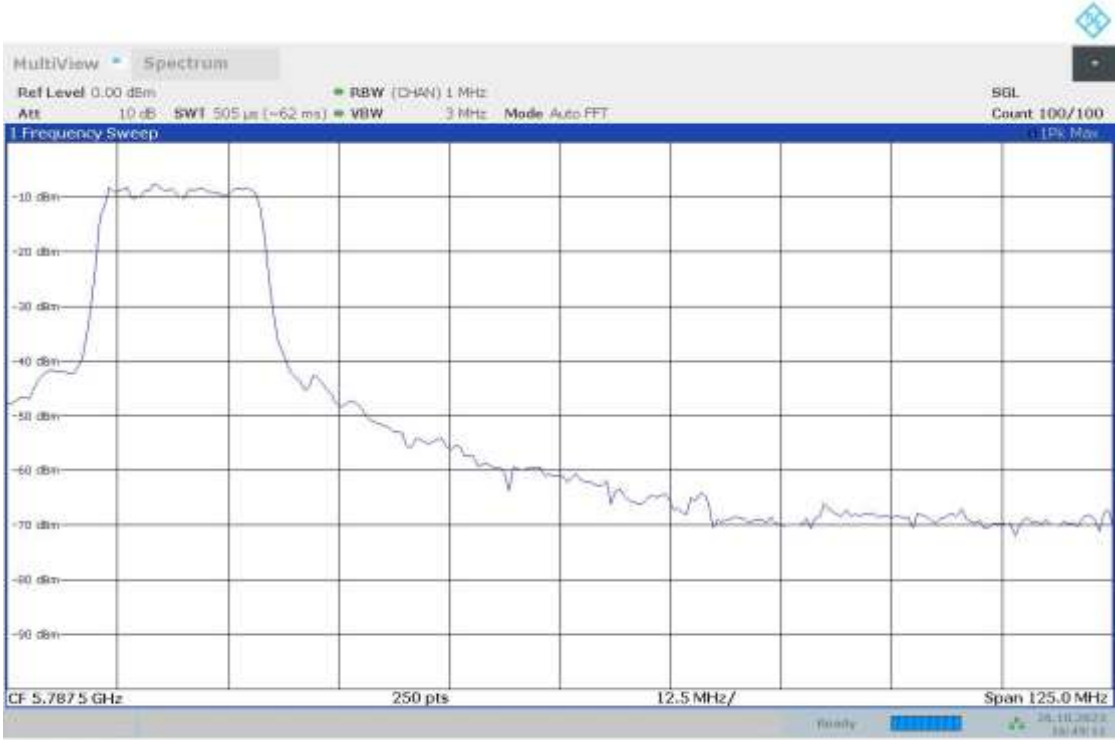
Modulation = 802.11ac VHT20 SS1 (OFDM MCS0)

MIMO Mode = SISO

Measurement Point = 1

Images:

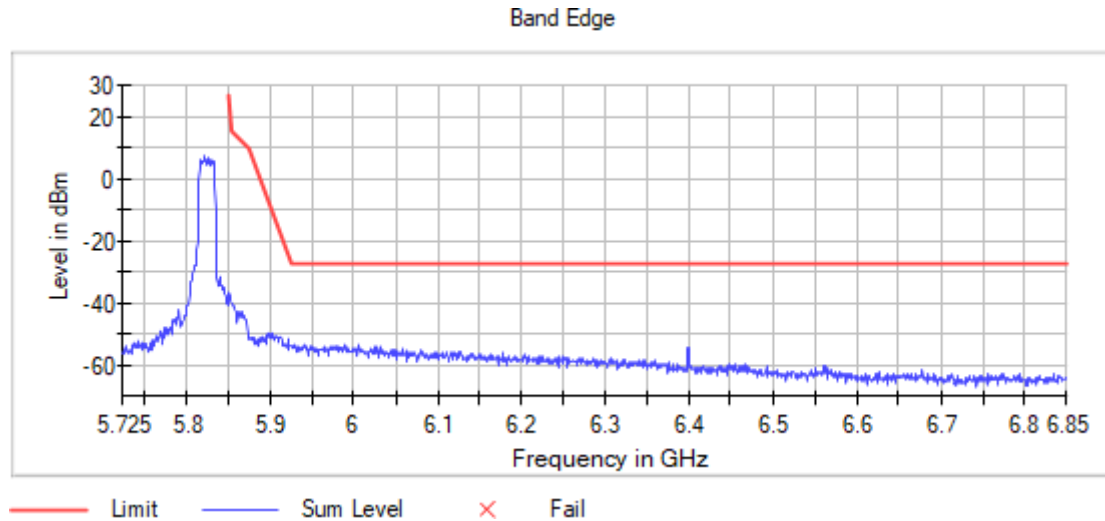


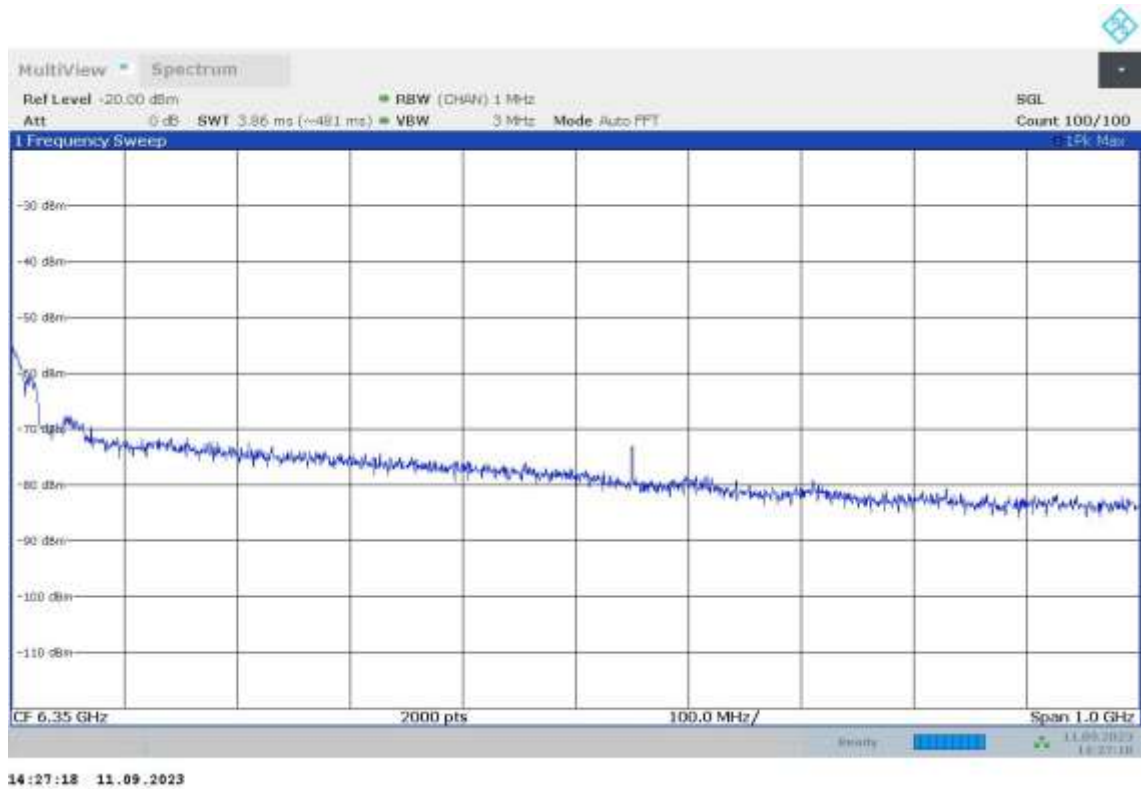


16:49:11 26.10.2023

Operation Band MHz = [5150, 5850] Active Port = 1
Frequency MHz = 5825.00000 Modulation = 802.11ac VHT20 SS1 (OFDM MCS0)
MIMO Mode = SISO Measurement Point = 1

Images:





Modulation: 802.11ax HE20 SS1 (OFDMA MCS0)

MIMO Mode: SISO

Results

U-NII-1

DUT Frequency	Result
5180.000000	PASS

DUT Frequency	Result
5240.000000	PASS

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
5148.750000	-40.5	13.5	-27.0	PASS
5149.250000	-40.7	13.7	-27.0	PASS
5146.750000	-40.8	13.8	-27.0	PASS
5148.250000	-40.9	13.9	-27.0	PASS
5149.750000	-41.1	14.1	-27.0	PASS
5147.250000	-41.7	14.7	-27.0	PASS
5147.750000	-41.7	14.7	-27.0	PASS
5146.250000	-41.9	14.9	-27.0	PASS
5145.250000	-42.0	15.0	-27.0	PASS
5145.750000	-42.1	15.1	-27.0	PASS
5143.750000	-42.4	15.4	-27.0	PASS
5143.250000	-42.5	15.5	-27.0	PASS
5142.750000	-42.7	15.7	-27.0	PASS
5141.750000	-42.8	15.8	-27.0	PASS
5144.750000	-42.9	15.9	-27.0	PASS

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
5402.750000	-53.2	26.2	-27.0	PASS
5403.250000	-53.8	26.8	-27.0	PASS
5394.750000	-54.1	27.1	-27.0	PASS
5413.250000	-54.2	27.2	-27.0	PASS
5396.250000	-54.3	27.3	-27.0	PASS
5403.750000	-54.3	27.3	-27.0	PASS
5424.250000	-54.4	27.4	-27.0	PASS
5423.750000	-54.5	27.5	-27.0	PASS
5400.750000	-54.5	27.5	-27.0	PASS
5395.750000	-54.6	27.6	-27.0	PASS
5400.250000	-54.6	27.6	-27.0	PASS
5426.250000	-54.7	27.7	-27.0	PASS
5362.750000	-54.7	27.7	-27.0	PASS
5369.250000	-54.7	27.7	-27.0	PASS
5369.750000	-54.8	27.8	-27.0	PASS

U-NII-3

DUT Frequency	Result
5745.000000	PASS

DUT Frequency	Result
5825.000000	PASS

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
5632.250000	-52.1	25.1	-27.0	PASS
5639.750000	-52.3	25.3	-27.0	PASS
5640.250000	-52.5	25.5	-27.0	PASS
5640.750000	-52.6	25.6	-27.0	PASS
5634.750000	-52.8	25.8	-27.0	PASS
5633.750000	-53.0	26.0	-27.0	PASS
5633.250000	-53.1	26.1	-27.0	PASS
5632.750000	-53.2	26.2	-27.0	PASS
5643.750000	-53.3	26.3	-27.0	PASS
5636.750000	-53.4	26.4	-27.0	PASS
5635.750000	-53.5	26.5	-27.0	PASS
5647.750000	-53.5	26.5	-27.0	PASS
5644.250000	-53.6	26.6	-27.0	PASS
5635.250000	-53.6	26.6	-27.0	PASS
5634.250000	-53.7	26.7	-27.0	PASS

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
5985.750000	-49.4	22.4	-27.0	PASS
5987.750000	-49.4	22.4	-27.0	PASS
6400.250000	-49.4	22.4	-27.0	PASS
5930.250000	-49.4	22.4	-27.0	PASS
5925.250000	-49.5	22.5	-27.0	PASS
5935.250000	-49.6	22.6	-27.0	PASS
6399.750000	-49.6	22.6	-27.0	PASS
5980.250000	-49.7	22.7	-27.0	PASS
5989.250000	-49.7	22.7	-27.0	PASS
5955.250000	-49.7	22.7	-27.0	PASS
5977.250000	-49.8	22.8	-27.0	PASS
5986.250000	-49.8	22.8	-27.0	PASS
5958.250000	-49.8	22.8	-27.0	PASS
5992.250000	-49.9	22.9	-27.0	PASS
5926.250000	-49.9	22.9	-27.0	PASS

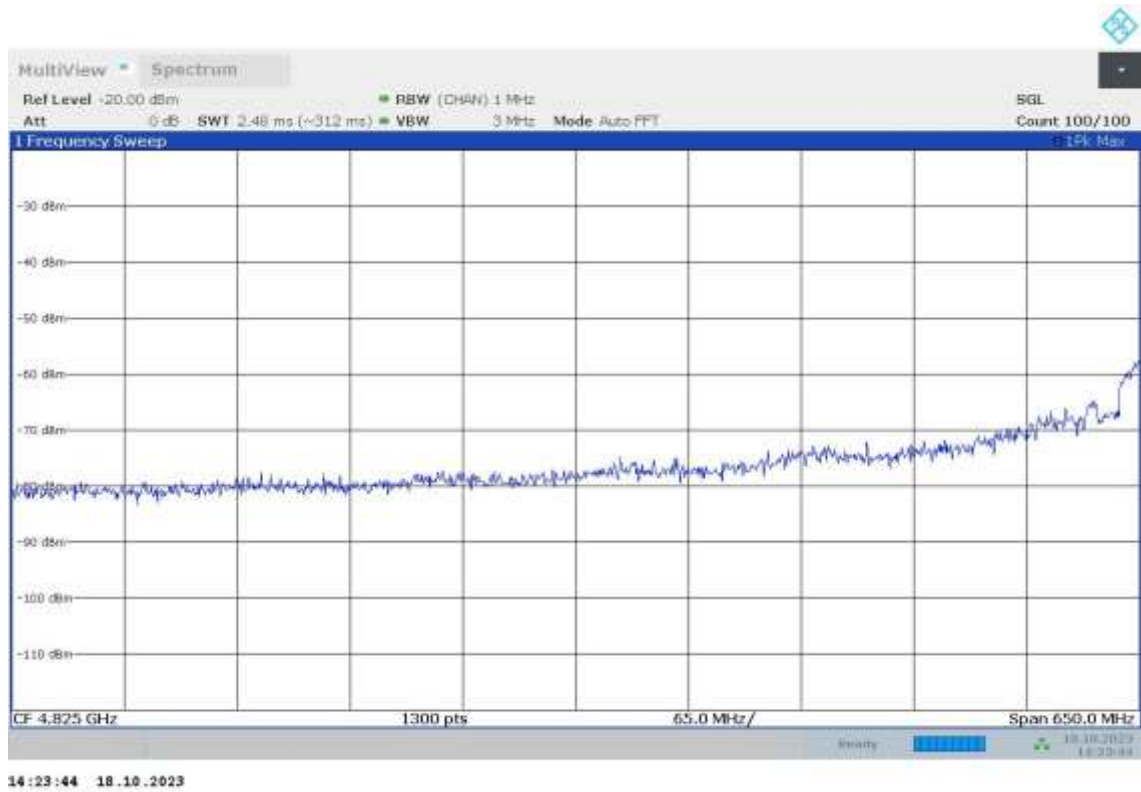
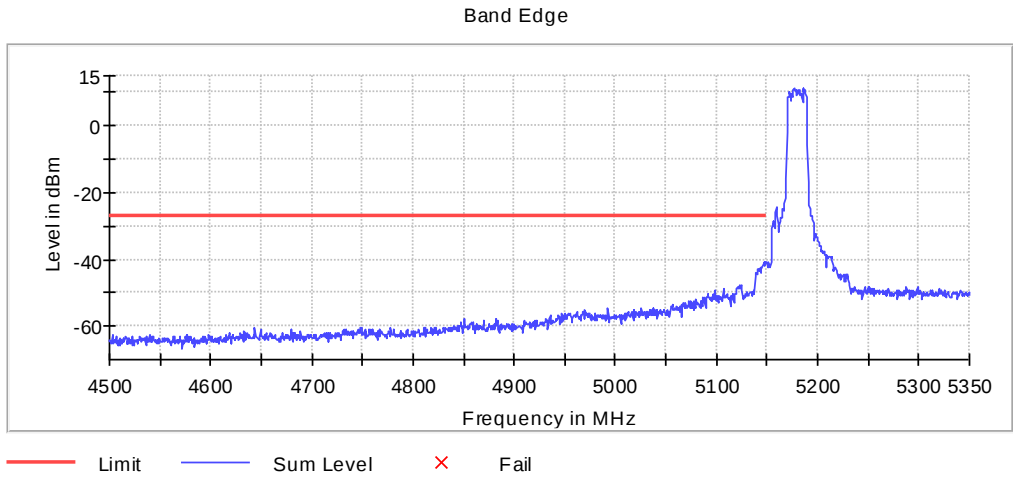
Verdict

Pass

Attachments

Operation Band MHz = [5150, 5850] Active Port = 1
Frequency MHz = 5180.00000 Modulation = 802.11ax HE20 SS1 (OFDMA MCS0)
MIMO Mode = SISO Measurement Point = 1

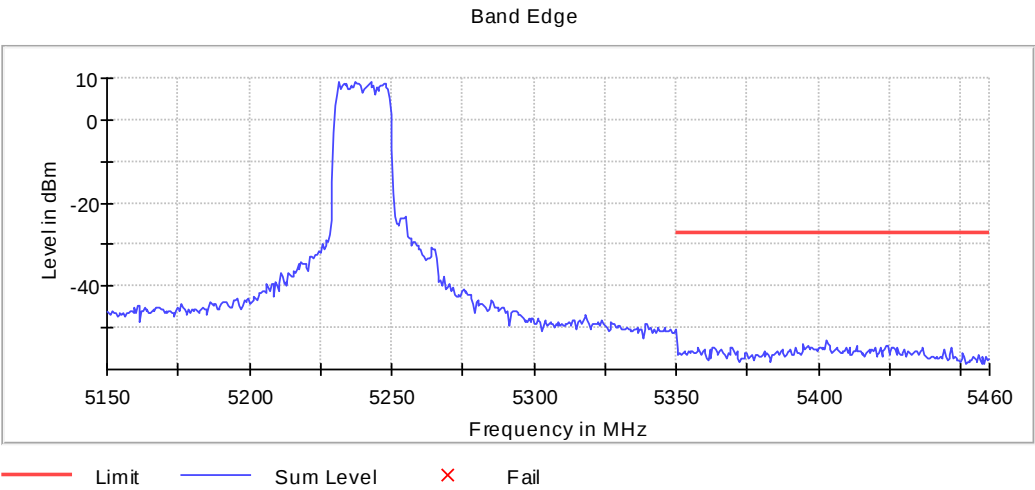
Images:





Operation Band MHz = [5150, 5850] Active Port = 1
Frequency MHz = 5240.00000 Modulation = 802.11ax HE20 SS1 (OFDMA MCS0)
MIMO Mode = SISO Measurement Point = 1

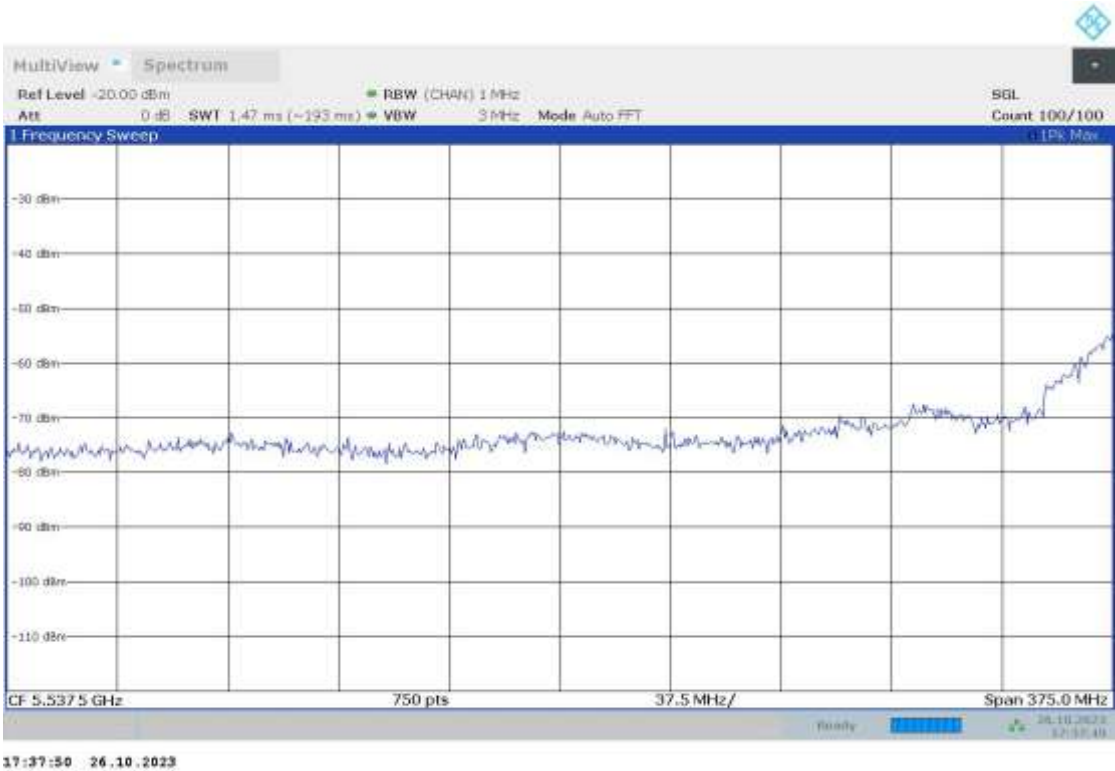
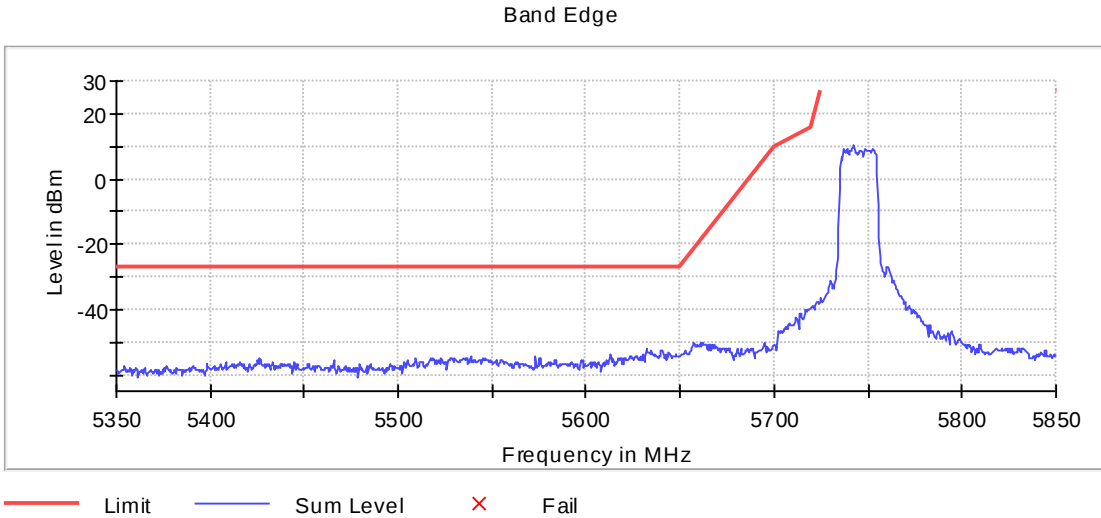
Images:

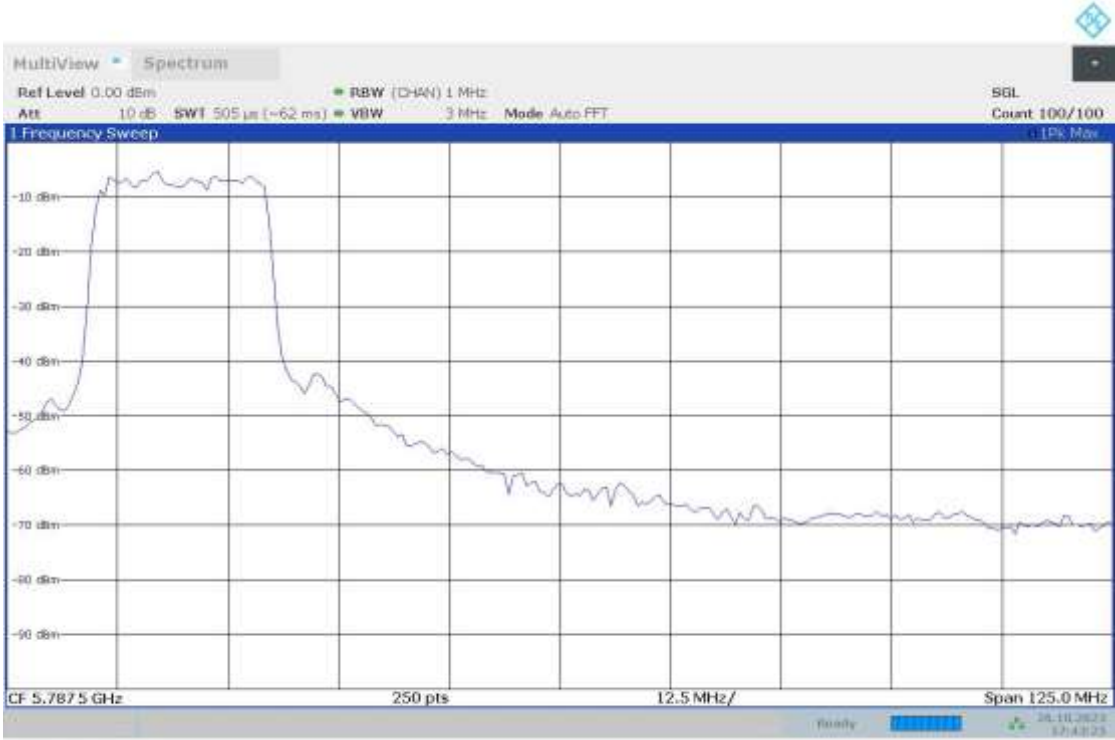




Operation Band MHz = [5150, 5850] Active Port = 1
Frequency MHz = 5745.00000 Modulation = 802.11ax HE20 SS1 (OFDMA MCS0)
MIMO Mode = SISO Measurement Point = 1

Images:

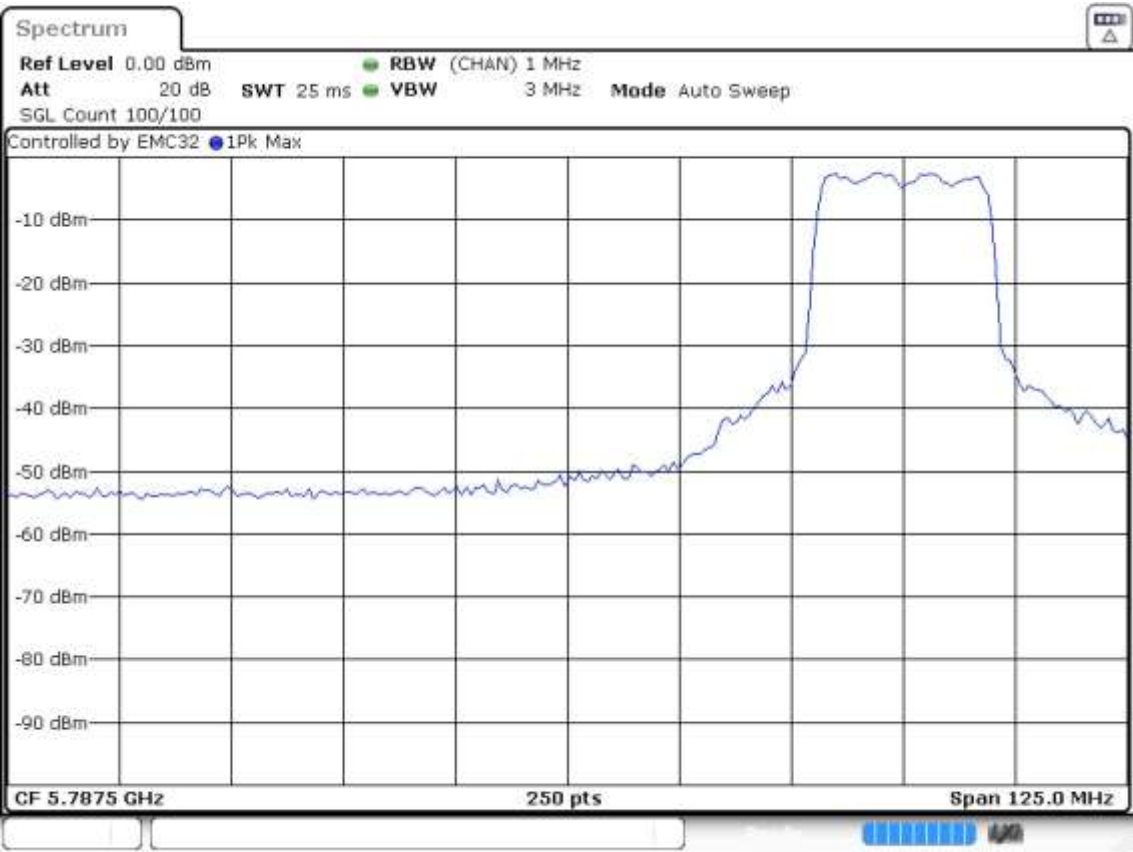
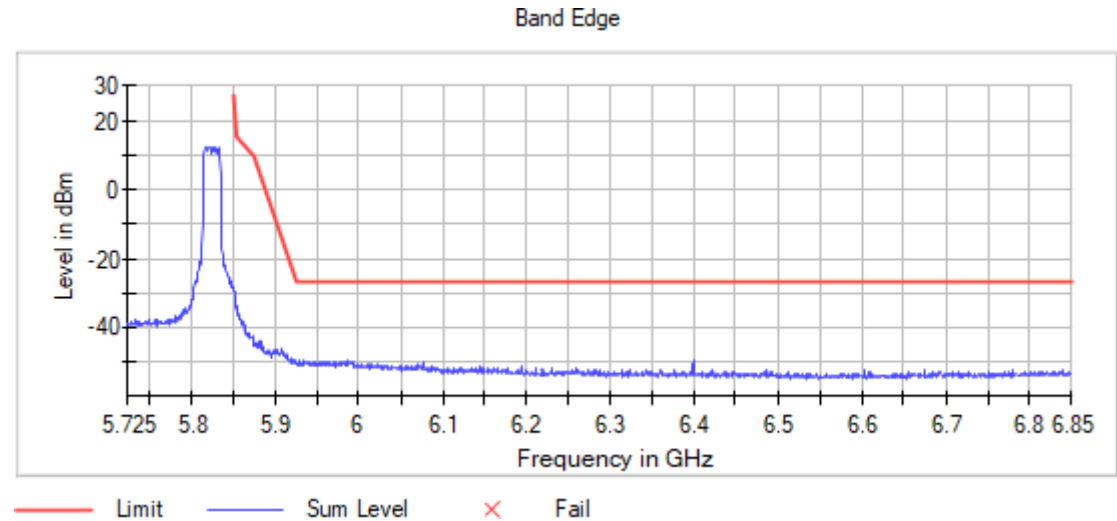




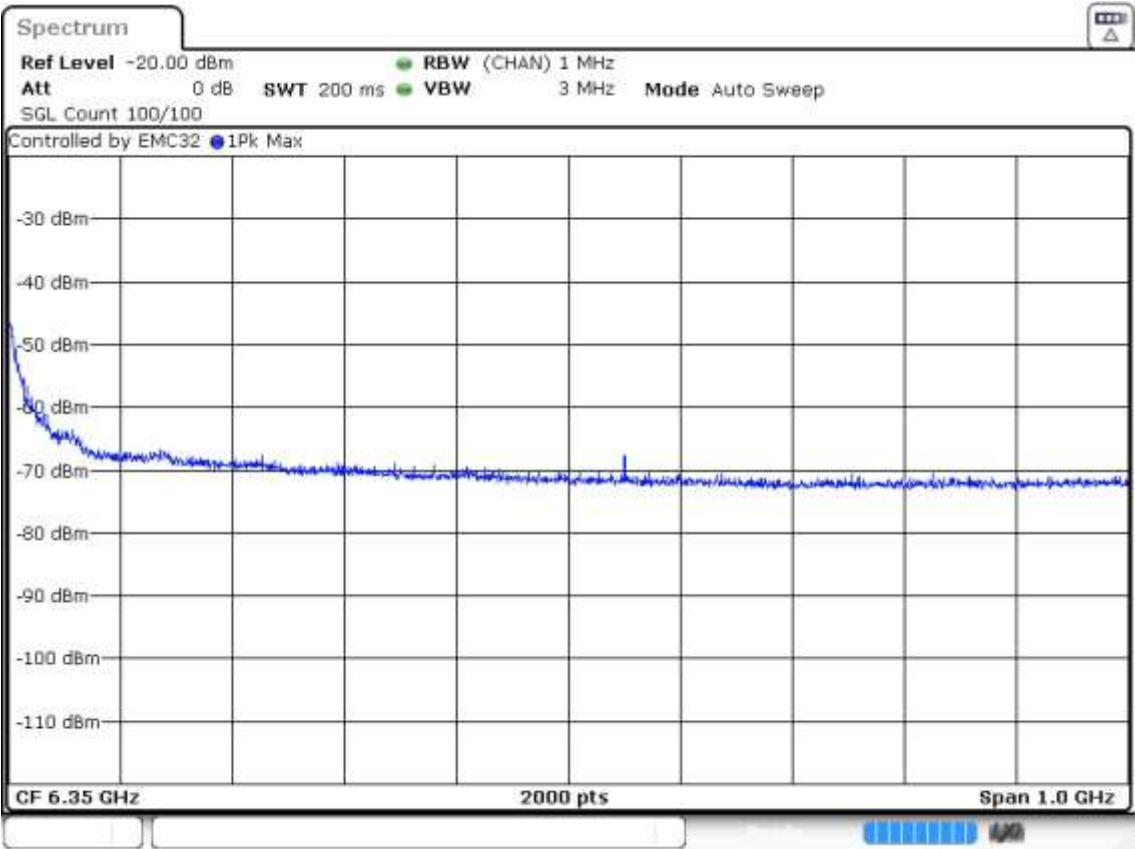
17:43:26 26.10.2023

Operation Band MHz = [5150, 5850] Active Port = 1
Frequency MHz = 5825.00000 Modulation = 802.11ax HE20 SS1 (OFDMA MCS0)
MIMO Mode = SISO Measurement Point = 1

Images:



Date: 11.SEP.2023 16:59:27



Date: 11.SEP.2023 17:04:31

Modulation: 802.11ac VHT40 SS1 (OFDM MCS0)

MIMO Mode: SISO

Results

U-NII-1

DUT Frequency	Result
5190.000000	PASS

DUT Frequency	Result
5230.000000	PASS

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
5149.750000	-35.2	8.2	-27.0	PASS
5149.250000	-35.8	8.8	-27.0	PASS
5148.750000	-35.9	8.9	-27.0	PASS
5146.750000	-36.1	9.1	-27.0	PASS
5148.250000	-36.5	9.5	-27.0	PASS
5147.250000	-36.8	9.8	-27.0	PASS
5145.750000	-37.0	10.0	-27.0	PASS
5146.250000	-37.1	10.1	-27.0	PASS
5147.750000	-37.2	10.2	-27.0	PASS
5145.250000	-37.4	10.4	-27.0	PASS
5144.750000	-38.9	11.9	-27.0	PASS
5142.750000	-39.1	12.1	-27.0	PASS
5143.250000	-39.4	12.4	-27.0	PASS
5144.250000	-39.7	12.7	-27.0	PASS
5140.750000	-39.8	12.8	-27.0	PASS

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
5360.250000	-52.7	25.7	-27.0	PASS
5351.750000	-52.9	25.9	-27.0	PASS
5363.750000	-52.9	25.9	-27.0	PASS
5363.250000	-53.0	26.0	-27.0	PASS
5353.250000	-53.0	26.0	-27.0	PASS
5358.250000	-53.1	26.1	-27.0	PASS
5352.250000	-53.1	26.1	-27.0	PASS
5366.750000	-53.2	26.2	-27.0	PASS
5358.750000	-53.2	26.2	-27.0	PASS
5355.750000	-53.2	26.2	-27.0	PASS
5368.750000	-53.2	26.2	-27.0	PASS
5355.250000	-53.3	26.3	-27.0	PASS
5372.750000	-53.3	26.3	-27.0	PASS
5359.750000	-53.3	26.3	-27.0	PASS
5376.750000	-53.4	26.4	-27.0	PASS

U-NII-3

DUT Frequency	Result
5755.000000	PASS

DUT Frequency	Result
5795.000000	PASS

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
5646.750000	-49.6	22.6	-27.0	PASS
5645.750000	-50.0	23.0	-27.0	PASS
5647.250000	-50.1	23.1	-27.0	PASS
5650.250000	-50.0	23.2	-26.8	PASS
5649.750000	-50.4	23.4	-27.0	PASS
5648.750000	-50.6	23.6	-27.0	PASS
5648.250000	-50.7	23.7	-27.0	PASS
5645.250000	-50.7	23.7	-27.0	PASS
5641.750000	-50.8	23.8	-27.0	PASS
5649.250000	-51.0	24.0	-27.0	PASS
5647.750000	-51.2	24.2	-27.0	PASS
5636.750000	-51.3	24.3	-27.0	PASS
5642.250000	-51.4	24.4	-27.0	PASS
5632.250000	-51.4	24.4	-27.0	PASS
5639.250000	-51.6	24.6	-27.0	PASS

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
5928.750000	-51.9	24.9	-27.0	PASS
5929.250000	-52.4	25.4	-27.0	PASS
5925.750000	-52.7	25.7	-27.0	PASS
5938.250000	-52.7	25.7	-27.0	PASS
5934.250000	-52.8	25.8	-27.0	PASS
5937.750000	-52.8	25.8	-27.0	PASS
5931.750000	-53.0	26.0	-27.0	PASS
5962.250000	-53.0	26.0	-27.0	PASS
5929.750000	-53.0	26.0	-27.0	PASS
5927.250000	-53.0	26.0	-27.0	PASS
5926.250000	-53.0	26.0	-27.0	PASS
5930.750000	-53.0	26.0	-27.0	PASS
5938.750000	-53.1	26.1	-27.0	PASS
5927.750000	-53.1	26.1	-27.0	PASS
5924.750000	-52.9	26.1	-26.8	PASS

Verdict

Pass

Attachments

Operation Band MHz = [5150, 5850] Active Port = 1

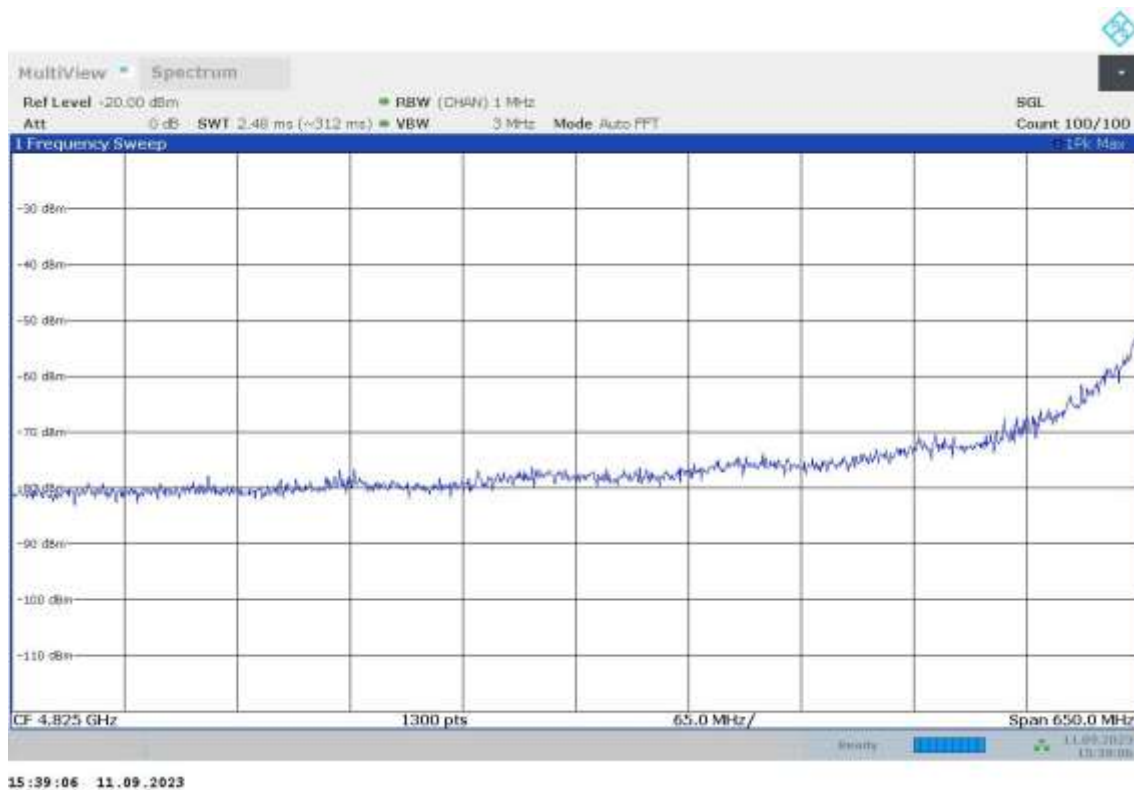
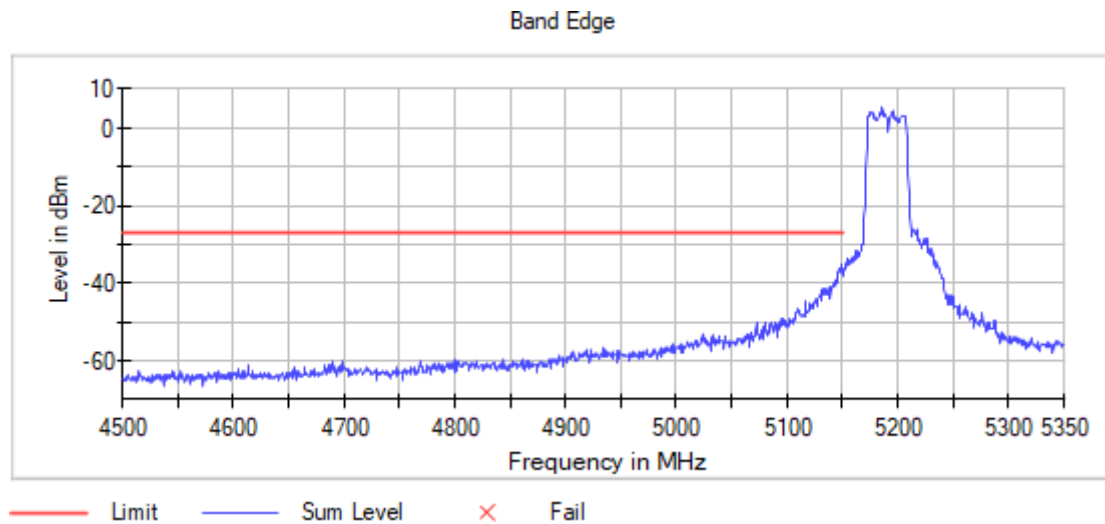
Frequency MHz = 5190.00000

Modulation = 802.11ac VHT40 SS1 (OFDM MCS0)

MIMO Mode = SISO

Measurement Point = 1

Images:





Operation Band MHz = [5150, 5850] Active Port = 1

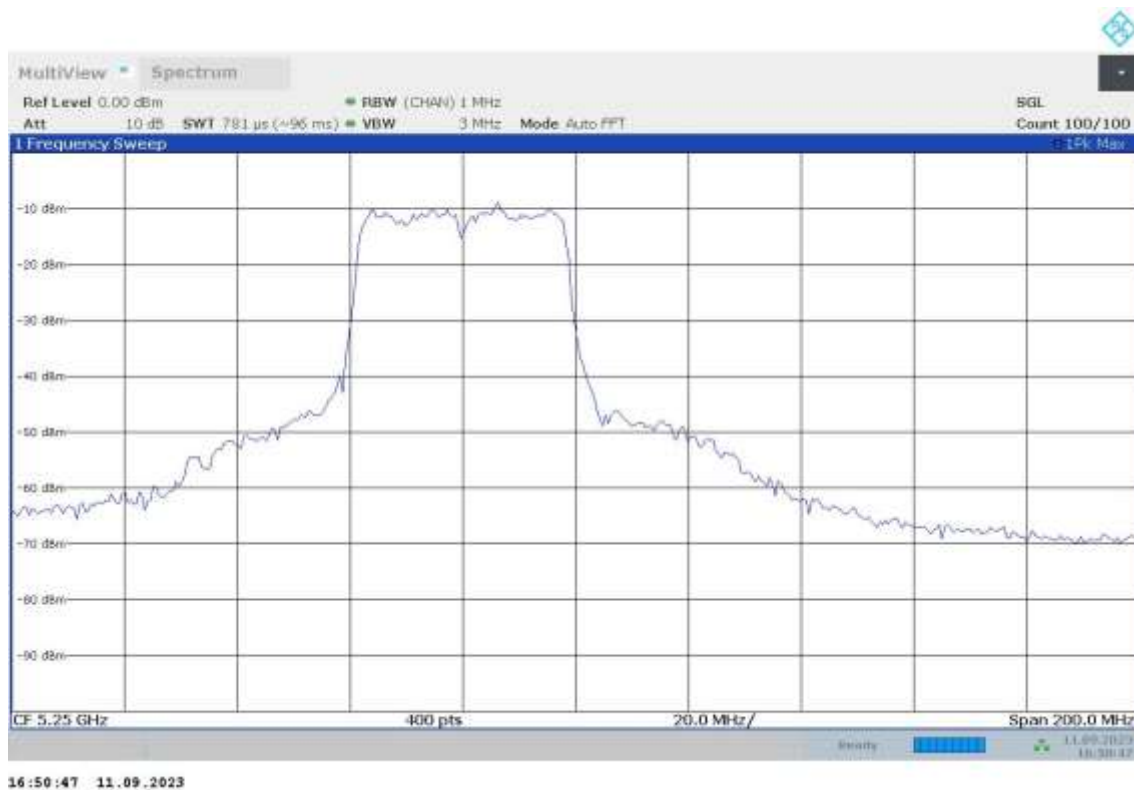
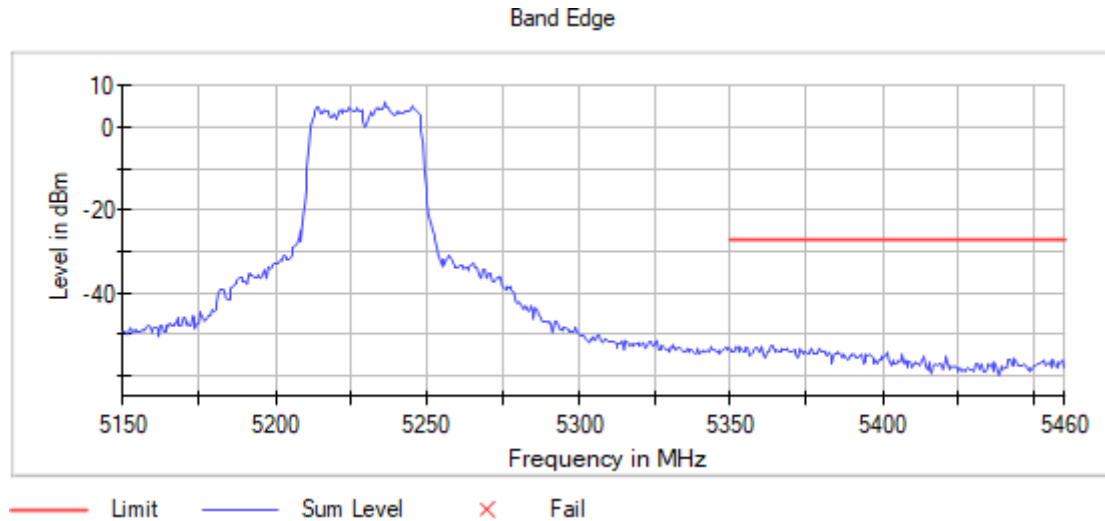
Frequency MHz = 5230.00000

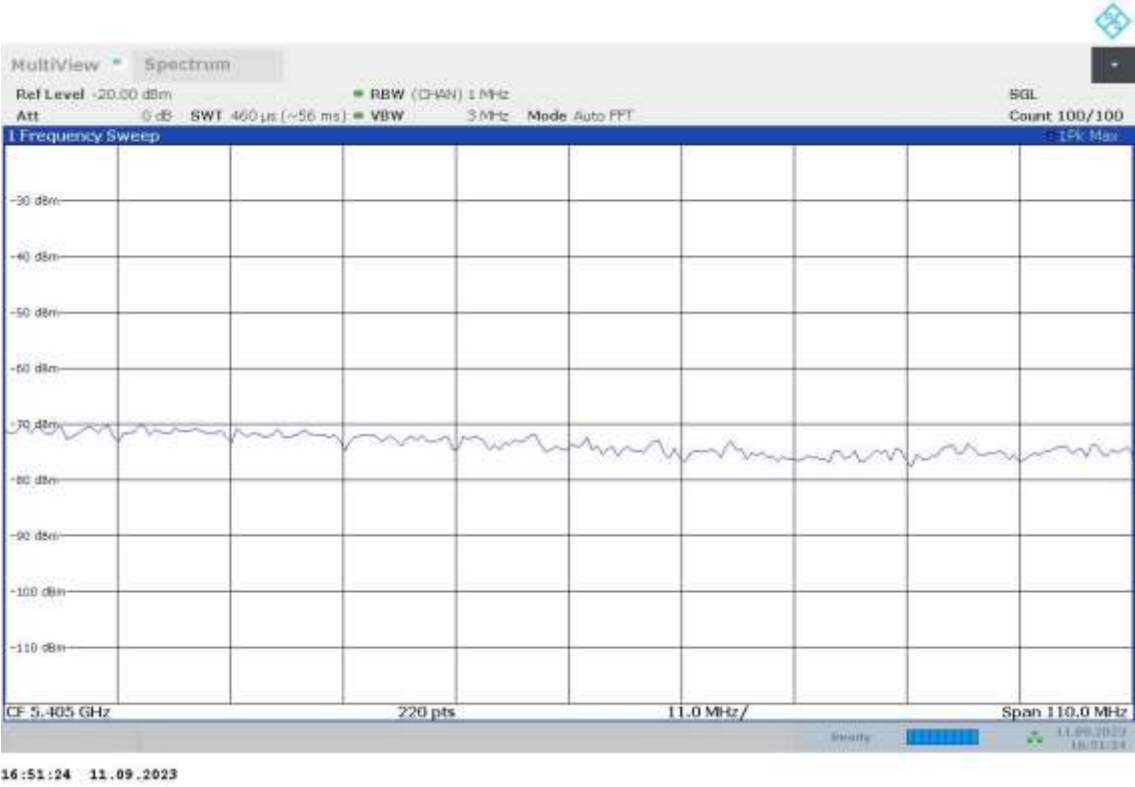
Modulation = 802.11ac VHT40 SS1 (OFDM MCS0)

MIMO Mode = SISO

Measurement Point = 1

Images:





Operation Band MHz = [5150, 5850] Active Port = 1

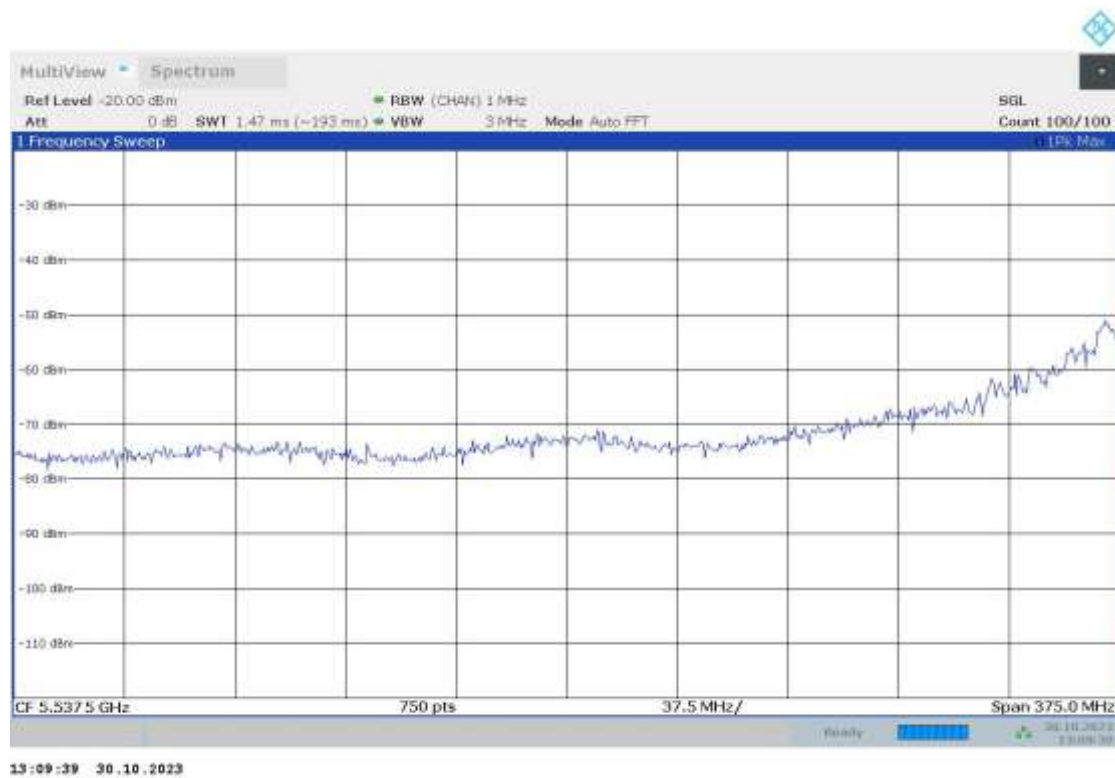
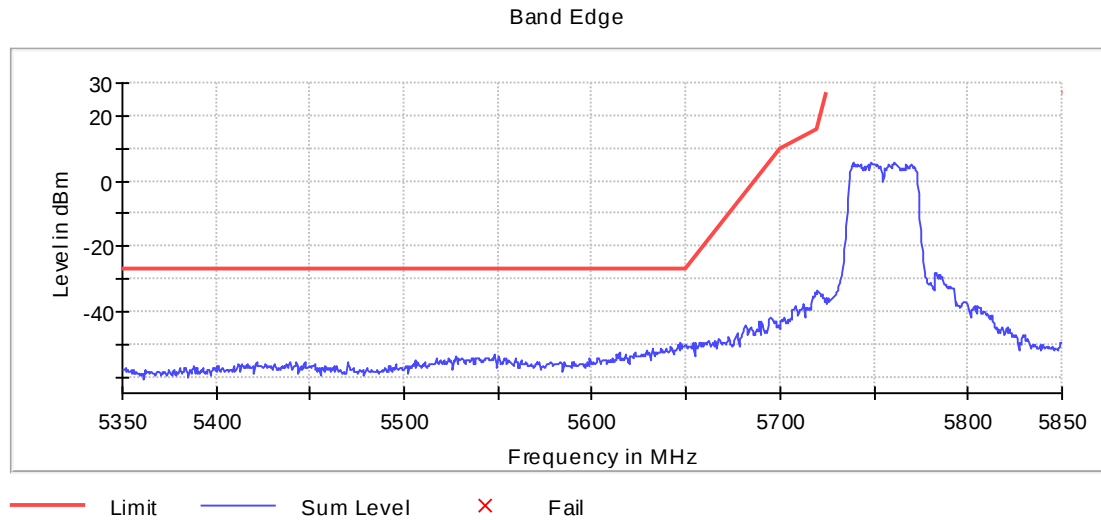
Frequency MHz = 5755.00000

Modulation = 802.11ac VHT40 SS1 (OFDM MCS0)

MIMO Mode = SISO

Measurement Point = 1

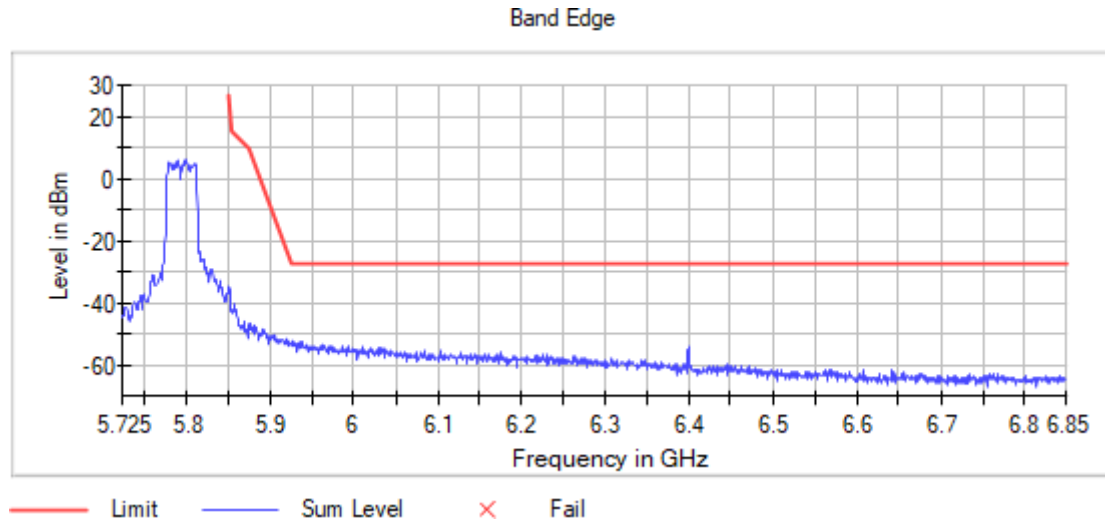
Images:

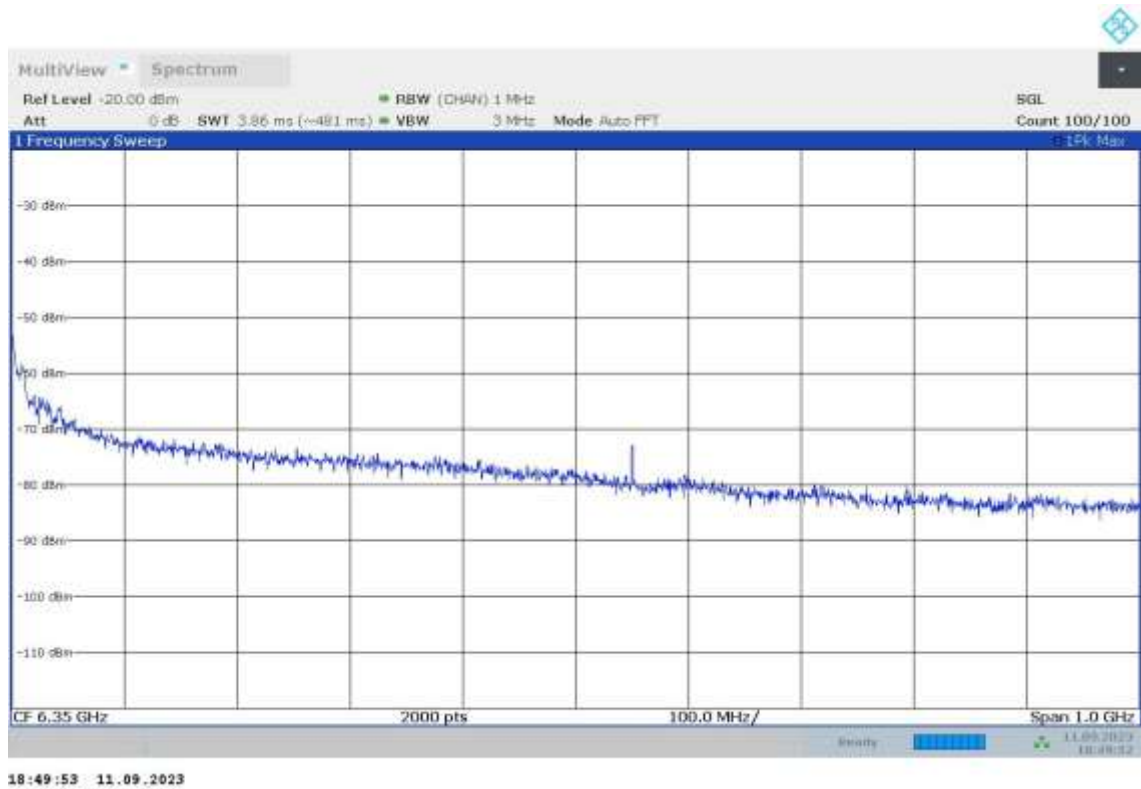




Operation Band MHz = [5150, 5850] Active Port = 1
Frequency MHz = 5795.00000 Modulation = 802.11ac VHT40 SS1 (OFDM MCS0)
MIMO Mode = SISO Measurement Point = 1

Images:





Modulation: 802.11ax HE40 SS1 (OFDMA MCS0)

MIMO Mode: SISO

Results

U-NII-1

DUT Frequency	Result
5190.000000	PASS

DUT Frequency	Result
5230.000000	PASS

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
5149.750000	-33.5	6.5	-27.0	PASS
5148.250000	-35.3	8.3	-27.0	PASS
5147.250000	-35.3	8.3	-27.0	PASS
5147.750000	-35.5	8.5	-27.0	PASS
5149.250000	-35.7	8.7	-27.0	PASS
5148.750000	-36.2	9.2	-27.0	PASS
5146.750000	-36.8	9.8	-27.0	PASS
5146.250000	-37.0	10.0	-27.0	PASS
5144.750000	-37.1	10.1	-27.0	PASS
5145.250000	-37.2	10.2	-27.0	PASS
5144.250000	-37.3	10.3	-27.0	PASS
5145.750000	-37.8	10.8	-27.0	PASS
5143.250000	-38.5	11.5	-27.0	PASS
5143.750000	-38.5	11.5	-27.0	PASS
5141.750000	-39.4	12.4	-27.0	PASS

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
5361.750000	-53.7	26.7	-27.0	PASS
5351.250000	-53.8	26.8	-27.0	PASS
5420.250000	-54.1	27.1	-27.0	PASS
5351.750000	-54.1	27.1	-27.0	PASS
5398.250000	-54.2	27.2	-27.0	PASS
5355.250000	-54.2	27.2	-27.0	PASS
5418.750000	-54.2	27.2	-27.0	PASS
5406.250000	-54.2	27.2	-27.0	PASS
5411.750000	-54.3	27.3	-27.0	PASS
5350.750000	-54.5	27.5	-27.0	PASS
5360.250000	-54.5	27.5	-27.0	PASS
5423.750000	-54.6	27.6	-27.0	PASS
5408.250000	-54.6	27.6	-27.0	PASS
5400.750000	-54.6	27.6	-27.0	PASS
5424.250000	-54.7	27.7	-27.0	PASS

U-NII-3

DUT Frequency	Result
5755.000000	PASS

DUT Frequency	Result
5795.000000	PASS

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
5638.750000	-50.2	23.2	-27.0	PASS
5647.250000	-50.3	23.3	-27.0	PASS
5639.250000	-50.4	23.4	-27.0	PASS
5647.750000	-50.4	23.4	-27.0	PASS
5643.750000	-50.5	23.5	-27.0	PASS
5648.250000	-50.5	23.5	-27.0	PASS
5644.250000	-50.6	23.6	-27.0	PASS
5645.250000	-50.7	23.7	-27.0	PASS
5645.750000	-50.7	23.7	-27.0	PASS
5641.750000	-50.9	23.9	-27.0	PASS
5644.750000	-50.9	23.9	-27.0	PASS
5646.750000	-50.9	23.9	-27.0	PASS
5646.250000	-51.0	24.0	-27.0	PASS
5642.250000	-51.1	24.1	-27.0	PASS
5638.250000	-51.1	24.1	-27.0	PASS

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
5928.250000	-48.7	21.7	-27.0	PASS
6399.250000	-48.9	21.9	-27.0	PASS
5959.250000	-49.1	22.1	-27.0	PASS
5974.250000	-49.2	22.2	-27.0	PASS
5926.750000	-49.2	22.2	-27.0	PASS
5925.750000	-49.3	22.3	-27.0	PASS
5925.250000	-49.3	22.3	-27.0	PASS
5933.750000	-49.3	22.3	-27.0	PASS
5942.750000	-49.3	22.3	-27.0	PASS
5924.750000	-49.2	22.3	-26.8	PASS
5964.750000	-49.4	22.4	-27.0	PASS
5956.750000	-49.4	22.4	-27.0	PASS
5929.250000	-49.4	22.4	-27.0	PASS
5931.750000	-49.6	22.6	-27.0	PASS
5927.250000	-49.6	22.6	-27.0	PASS

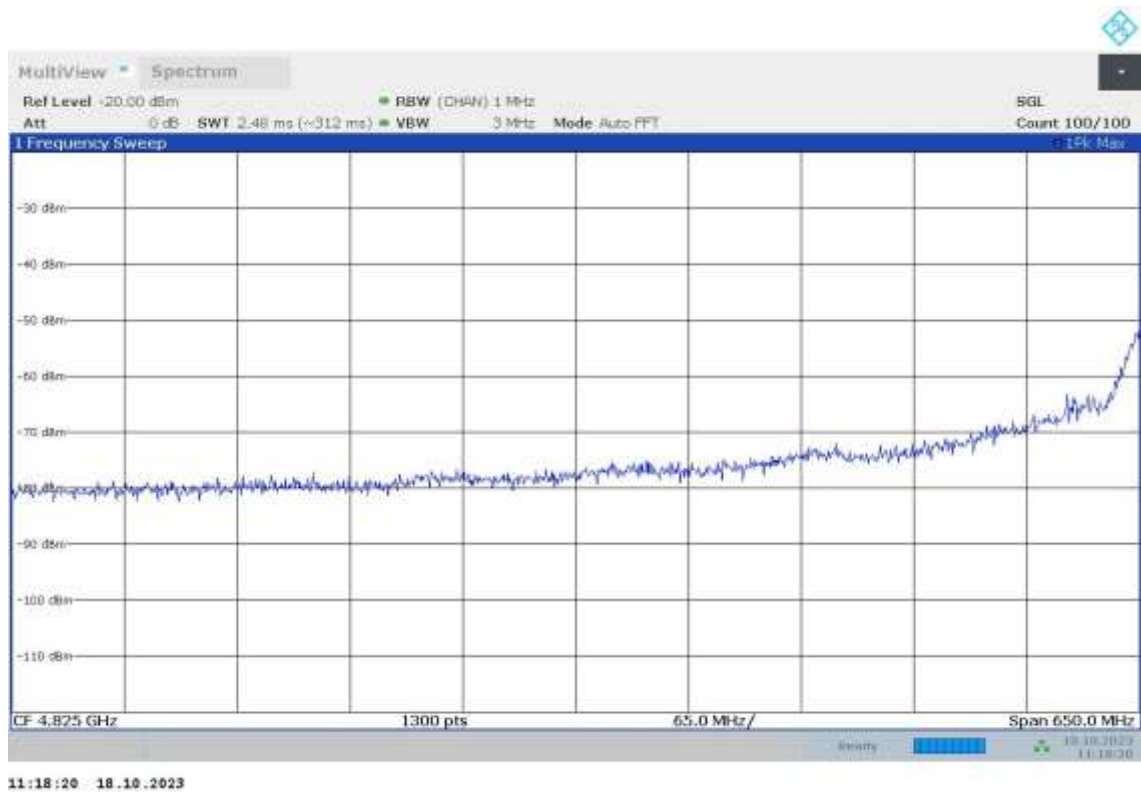
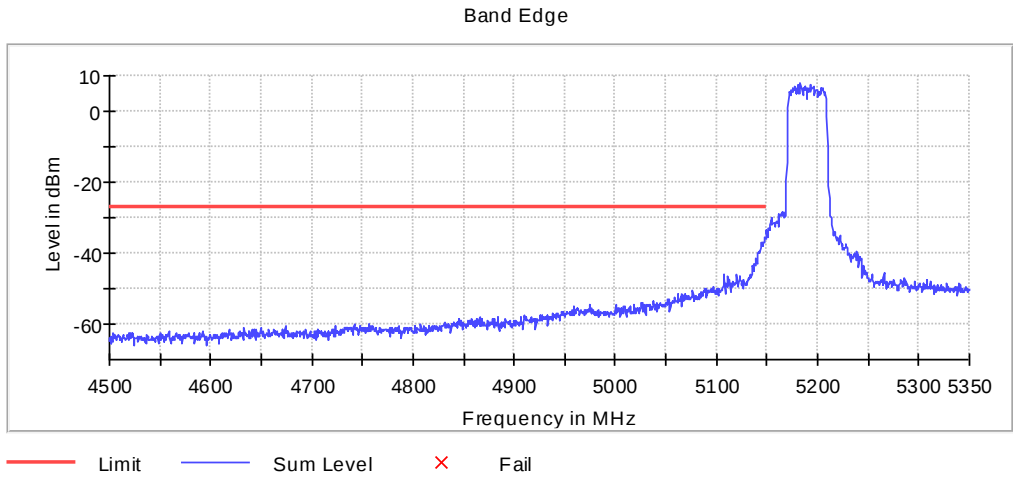
Verdict

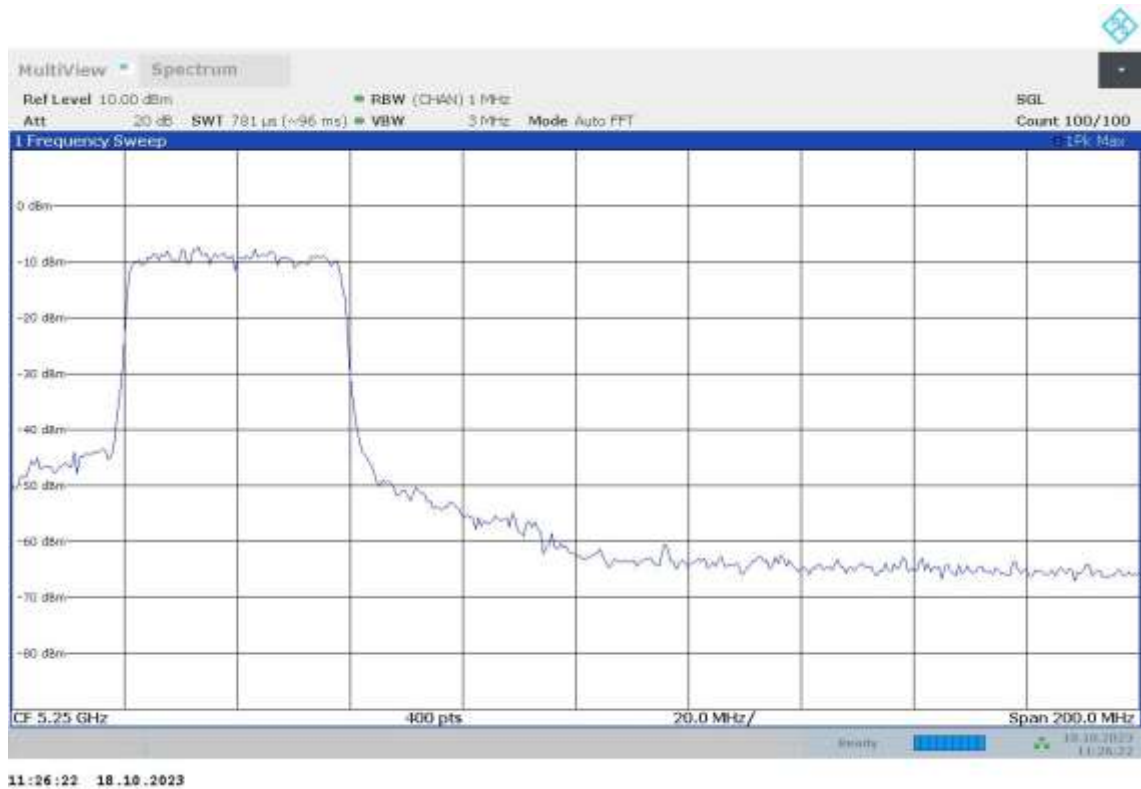
Pass

Attachments

Operation Band MHz = [5150, 5850] Active Port = 1
Frequency MHz = 5190.00000 Modulation = 802.11ax HE40 SS1 (OFDMA MCS0)
MIMO Mode = SISO Measurement Point = 1

Images:



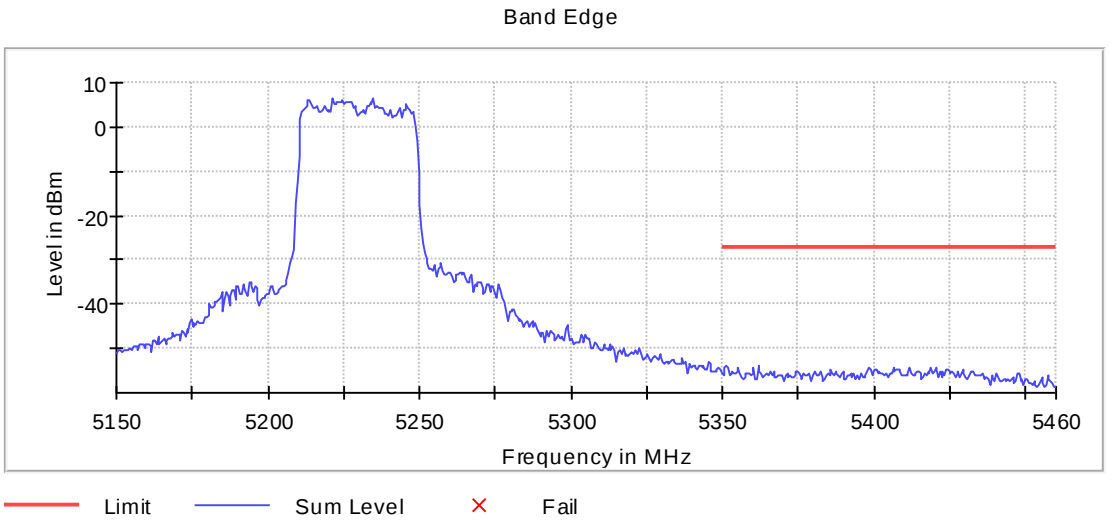


Operation Band MHz = [5150, 5850] Active Port = 1
Frequency MHz = 5230.00000 Modulation = 802.11ax HE40 SS1 (OFDMA MCS0)

MIMO Mode = SISO

Measurement Point = 1

Images:

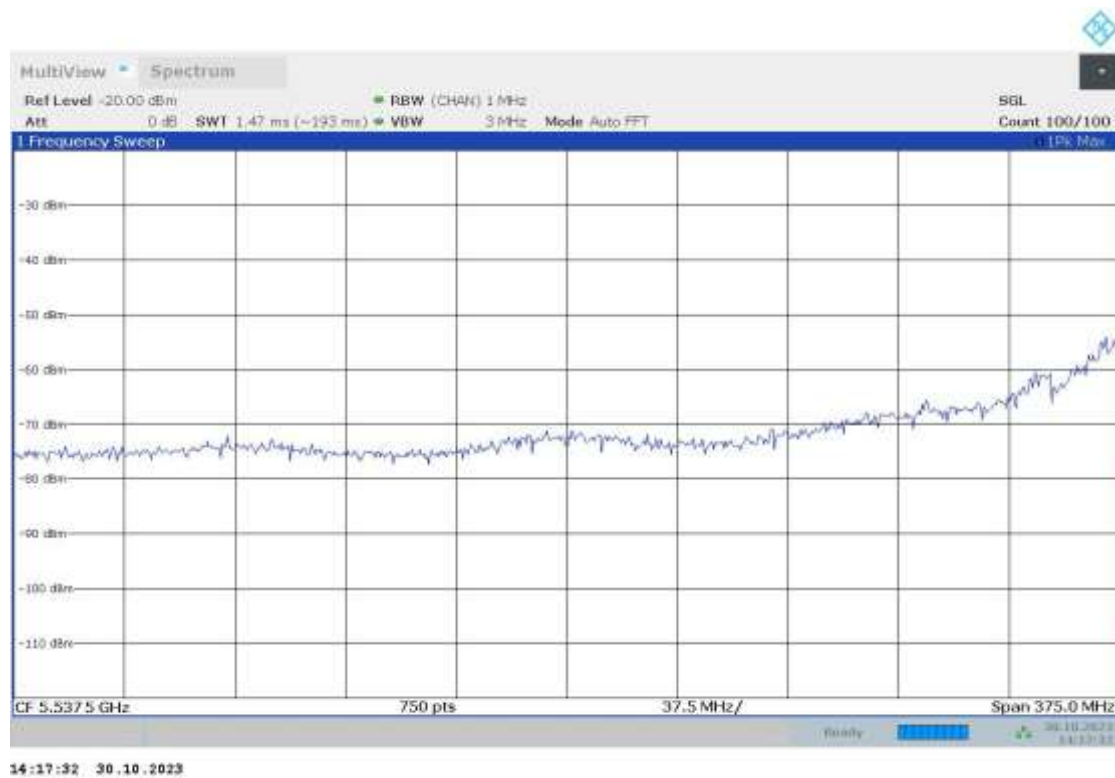
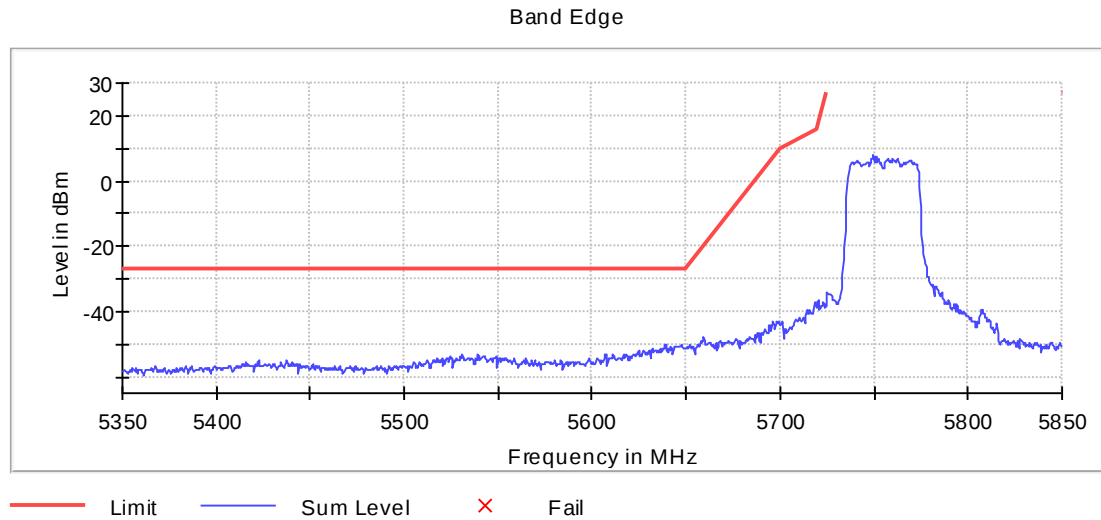




13:35:13 30.10.2023

Operation Band MHz = [5150, 5850] Active Port = 1
Frequency MHz = 5755.00000 Modulation = 802.11ax HE40 SS1 (OFDMA MCS0)
MIMO Mode = SISO Measurement Point = 1

Images:

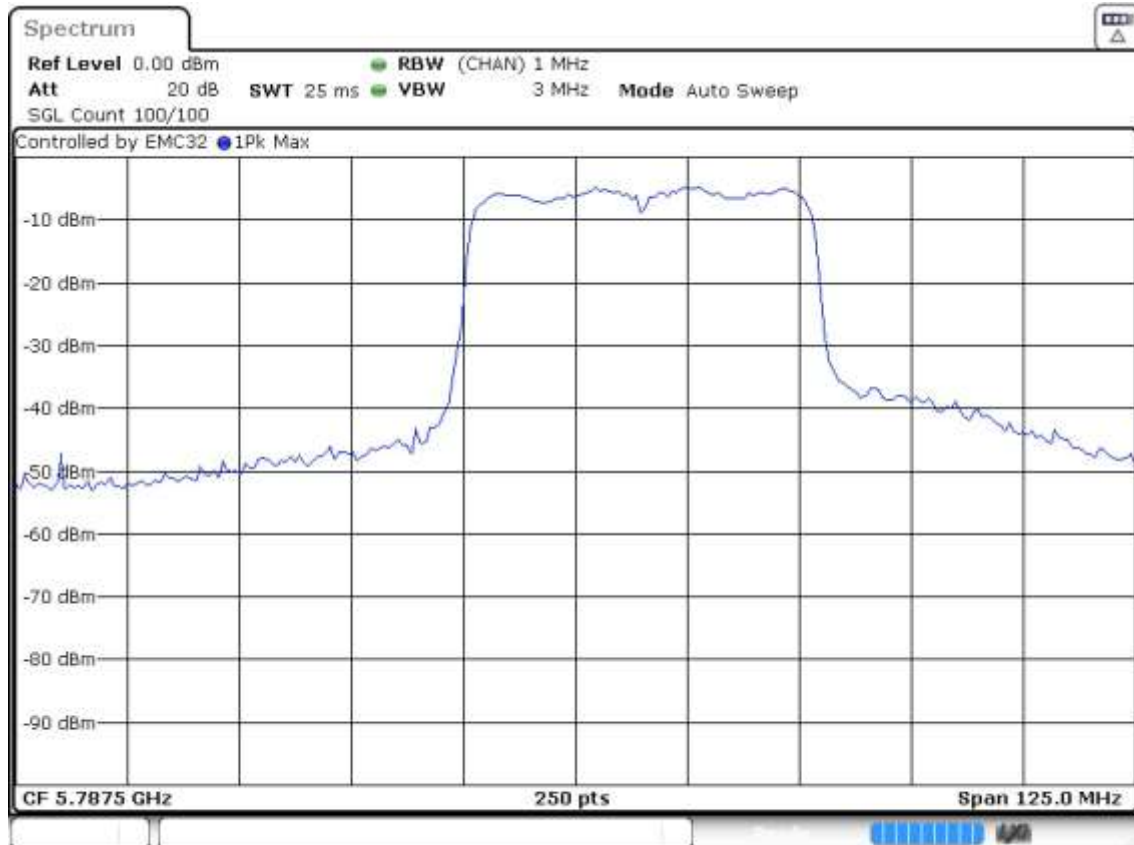
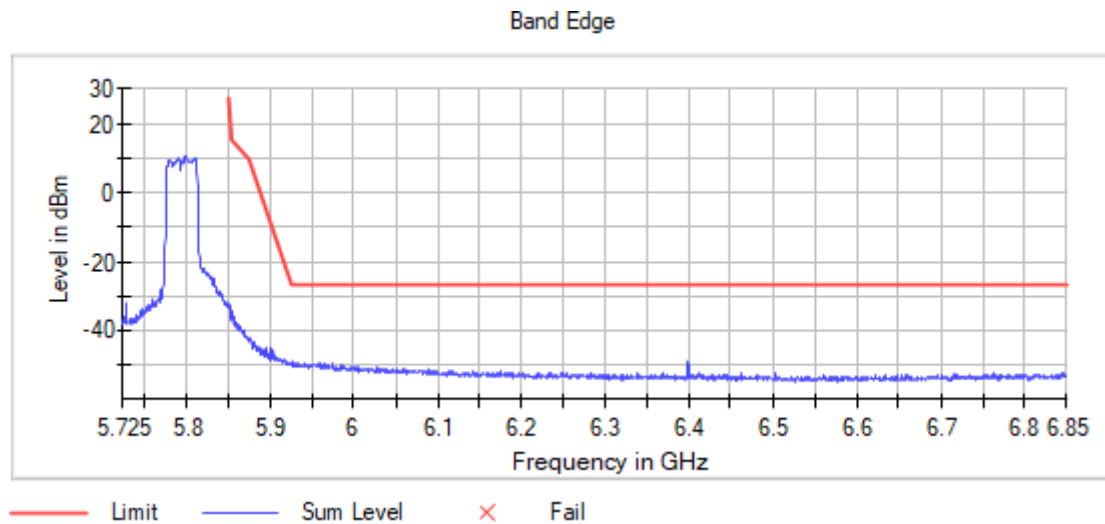




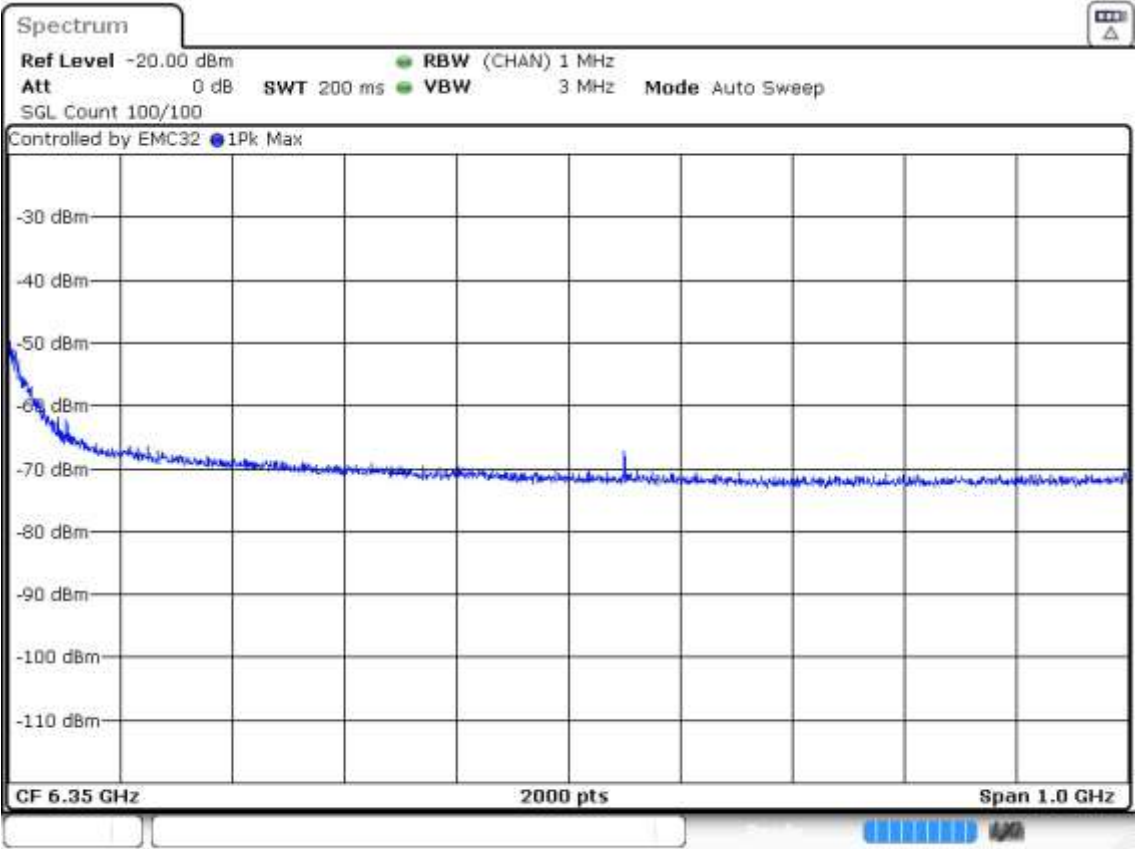
14:25:53 30.10.2023

Operation Band MHz = [5150, 5850] Active Port = 1
Frequency MHz = 5795.00000 Modulation = 802.11ax HE40 SS1 (OFDMA MCS0)
MIMO Mode = SISO Measurement Point = 1

Images:



Date: 11.SEP.2023 20:36:42



Date: 11.SEP.2023 20:43:33

Modulation: 802.11ac VHT80 SS1 (OFDM MCS0)

MIMO Mode: SISO

Results

U-NII-1

DUT Frequency	Result
5210.000000	PASS

DUT Frequency	Result
5210.000000	PASS

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
5149.250000	-31.5	4.5	-27.0	PASS
5142.750000	-32.3	5.3	-27.0	PASS
5143.250000	-32.3	5.3	-27.0	PASS
5138.750000	-32.4	5.4	-27.0	PASS
5139.750000	-32.6	5.6	-27.0	PASS
5124.250000	-32.6	5.6	-27.0	PASS
5138.250000	-32.7	5.7	-27.0	PASS
5139.250000	-32.7	5.7	-27.0	PASS
5128.750000	-32.8	5.8	-27.0	PASS
5123.750000	-32.8	5.8	-27.0	PASS
5136.250000	-32.9	5.9	-27.0	PASS
5129.250000	-32.9	5.9	-27.0	PASS
5135.750000	-32.9	5.9	-27.0	PASS
5145.250000	-33.0	6.0	-27.0	PASS
5148.750000	-33.0	6.0	-27.0	PASS

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
5354.250000	-48.9	21.9	-27.0	PASS
5353.750000	-50.0	23.0	-27.0	PASS
5357.250000	-50.3	23.3	-27.0	PASS
5357.750000	-50.5	23.5	-27.0	PASS
5353.250000	-50.8	23.8	-27.0	PASS
5350.750000	-51.1	24.1	-27.0	PASS
5352.750000	-51.3	24.3	-27.0	PASS
5350.250000	-51.3	24.3	-27.0	PASS
5352.250000	-51.3	24.3	-27.0	PASS
5354.750000	-51.4	24.4	-27.0	PASS
5356.750000	-51.5	24.5	-27.0	PASS
5411.750000	-51.8	24.8	-27.0	PASS
5351.750000	-51.9	24.9	-27.0	PASS
5351.250000	-51.9	24.9	-27.0	PASS
5359.250000	-52.2	25.2	-27.0	PASS

U-NII-3

DUT Frequency	Result
5775.000000	PASS

DUT Frequency	Result
5775.000000	PASS

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
5646.250000	-38.4	11.4	-27.0	PASS
5646.750000	-38.5	11.5	-27.0	PASS
5648.250000	-38.7	11.7	-27.0	PASS
5650.250000	-38.6	11.8	-26.8	PASS
5645.750000	-38.9	11.9	-27.0	PASS
5643.750000	-39.0	12.0	-27.0	PASS
5649.750000	-39.0	12.0	-27.0	PASS
5647.750000	-39.1	12.1	-27.0	PASS
5650.750000	-38.8	12.4	-26.4	PASS
5645.250000	-39.4	12.4	-27.0	PASS
5648.750000	-39.4	12.4	-27.0	PASS
5641.750000	-39.4	12.4	-27.0	PASS
5641.250000	-39.6	12.6	-27.0	PASS
5647.250000	-39.8	12.8	-27.0	PASS
5644.250000	-39.8	12.8	-27.0	PASS

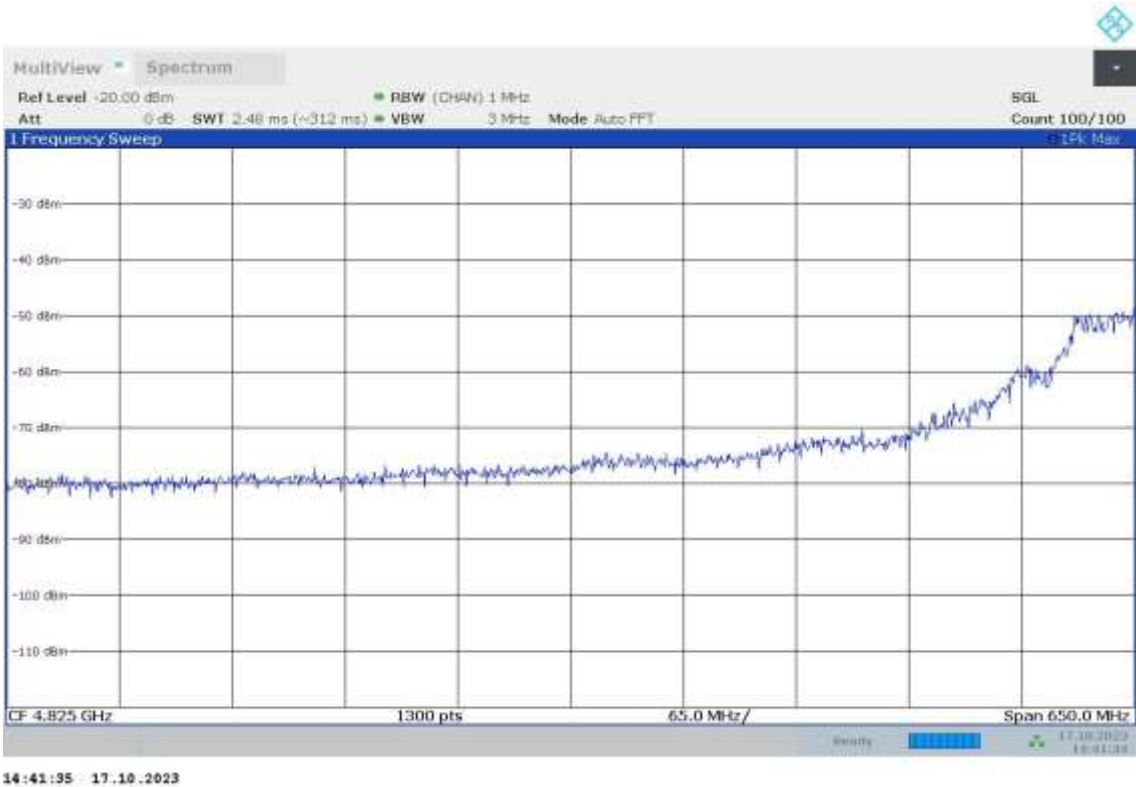
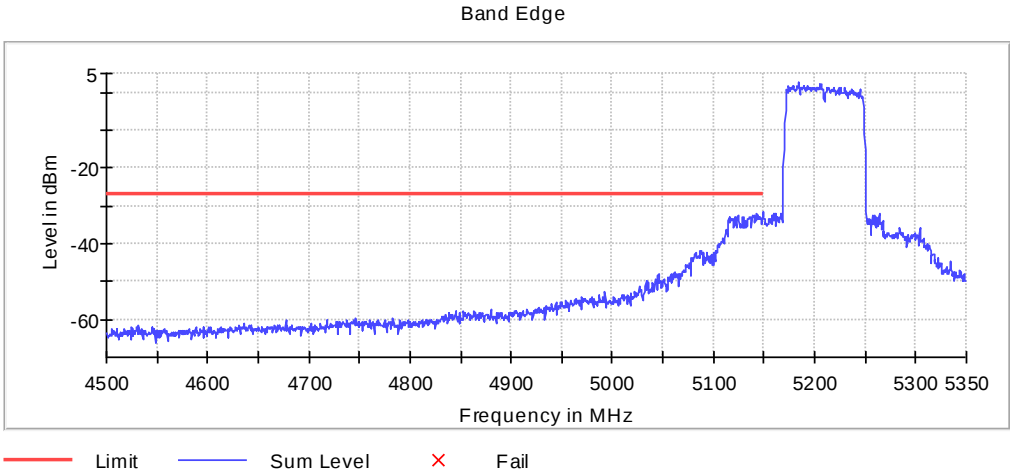
Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
5926.250000	-43.5	16.5	-27.0	PASS
5925.750000	-43.9	16.9	-27.0	PASS
5929.250000	-44.0	17.0	-27.0	PASS
5928.250000	-44.1	17.1	-27.0	PASS
5928.750000	-44.1	17.1	-27.0	PASS
5927.750000	-44.2	17.2	-27.0	PASS
5924.250000	-43.8	17.3	-26.4	PASS
5930.250000	-44.4	17.4	-27.0	PASS
5926.750000	-44.5	17.5	-27.0	PASS
5933.750000	-44.8	17.8	-27.0	PASS
5924.750000	-44.7	17.9	-26.8	PASS
5934.250000	-44.9	17.9	-27.0	PASS
5923.750000	-44.0	18.0	-26.1	PASS
5945.750000	-45.1	18.1	-27.0	PASS
5930.750000	-45.1	18.1	-27.0	PASS

Verdict

Pass

Operation Band MHz = [5150, 5850] Active Port = 1
Frequency MHz = 5210.00000 Modulation = 802.11ac VHT80 SS1 (OFDM MCS0)
MIMO Mode = SISO Measurement Point = 1

Images:





Attachments

Operation Band MHz = [5150, 5850] Active Port = 1

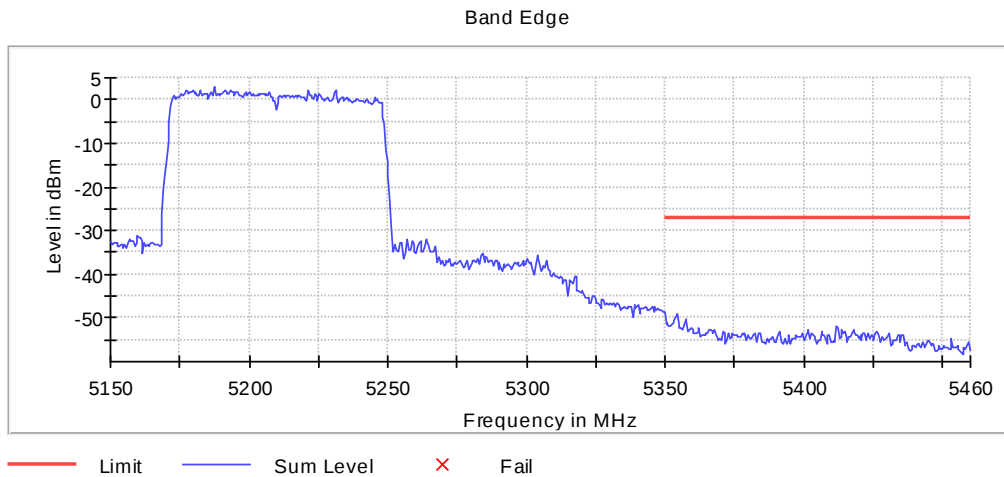
Frequency MHz = 5210.00000

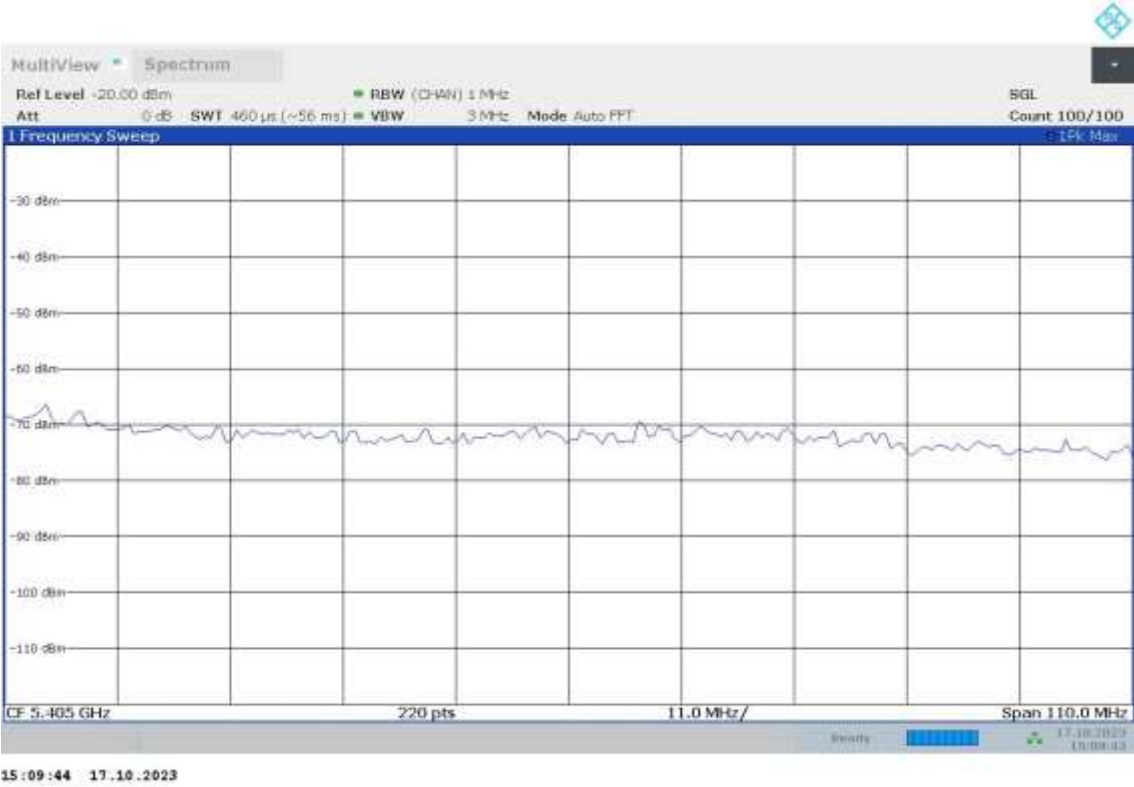
Modulation = 802.11ac VHT80 SS1 (OFDM MCS0)

MIMO Mode = SISO

Measurement Point = 1

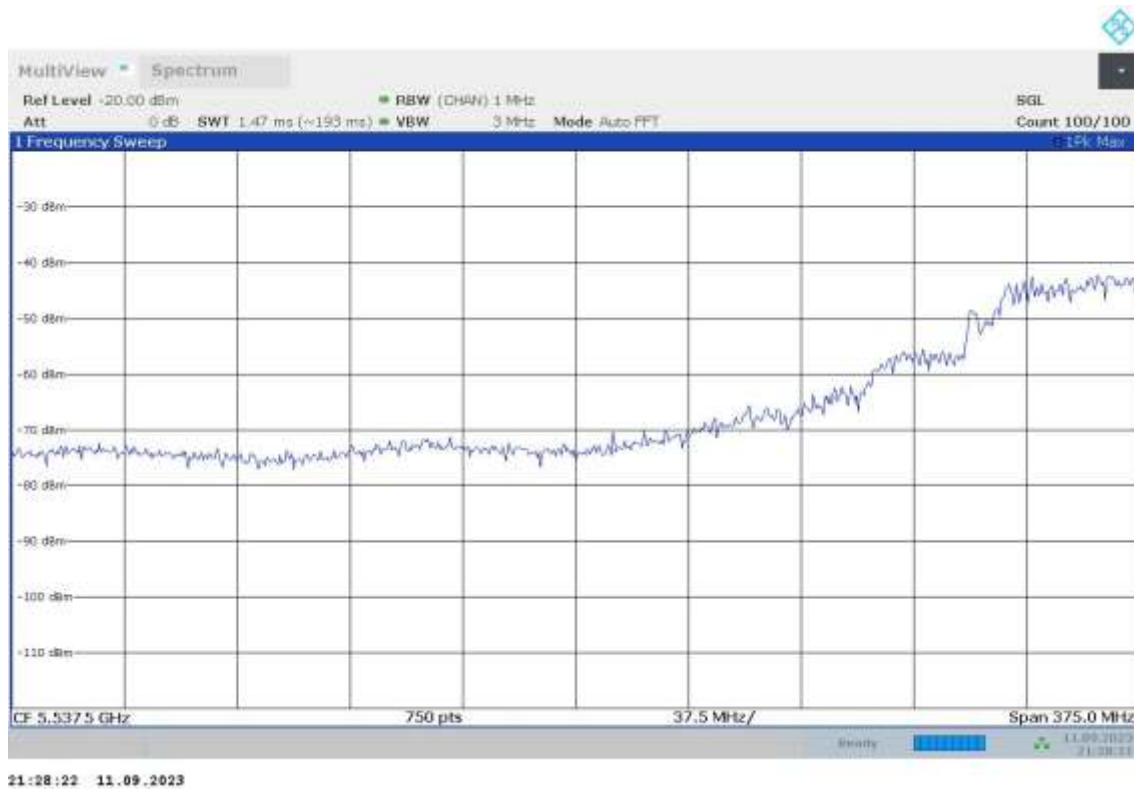
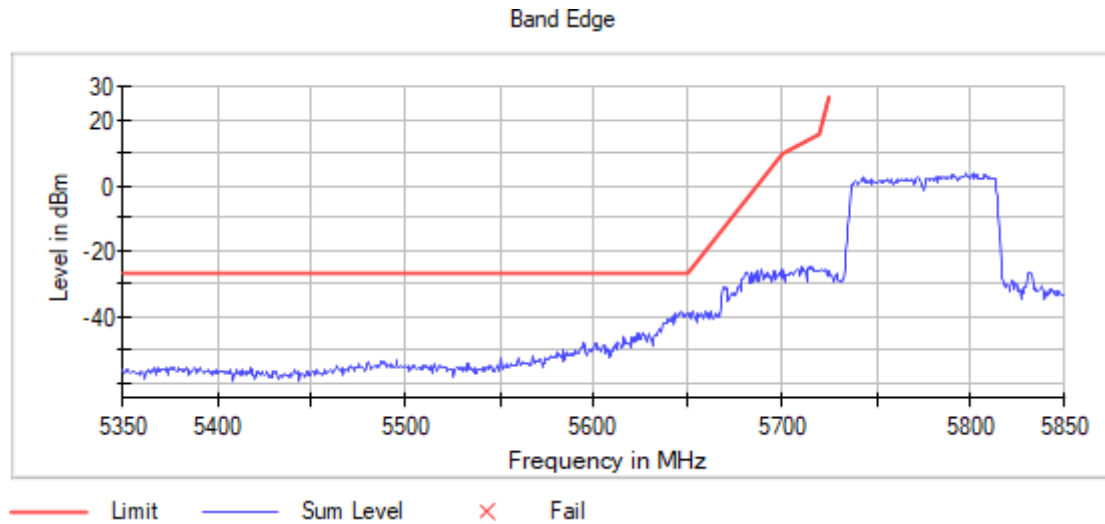
Images:





Operation Band MHz = [5150, 5850] Active Port = 1
Frequency MHz = 5775.00000 Modulation = 802.11ac VHT80 SS1 (OFDM MCS0)
MIMO Mode = SISO Measurement Point = 1

Images:





Operation Band MHz = [5150, 5850] Active Port = 1

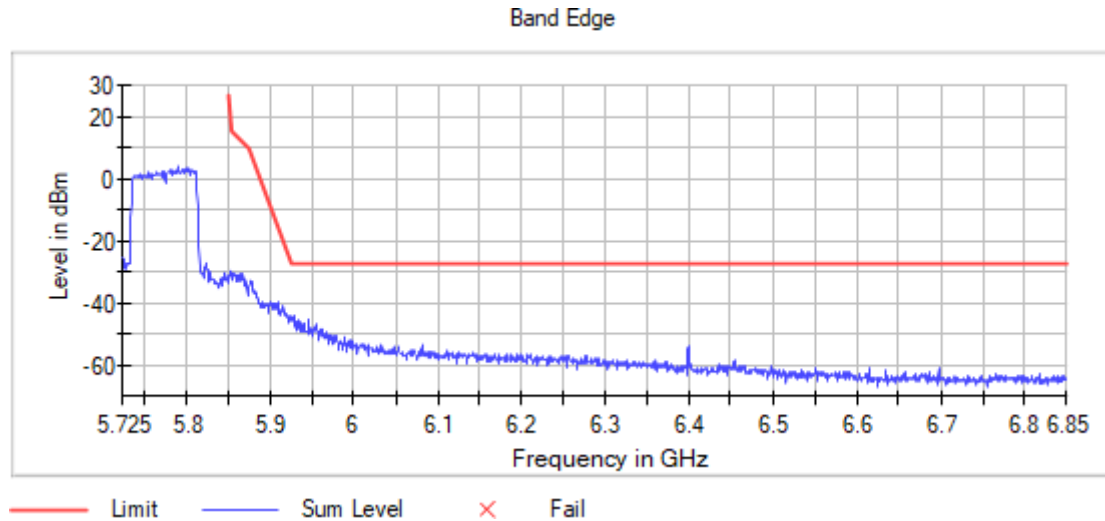
Frequency MHz = 5775.00000

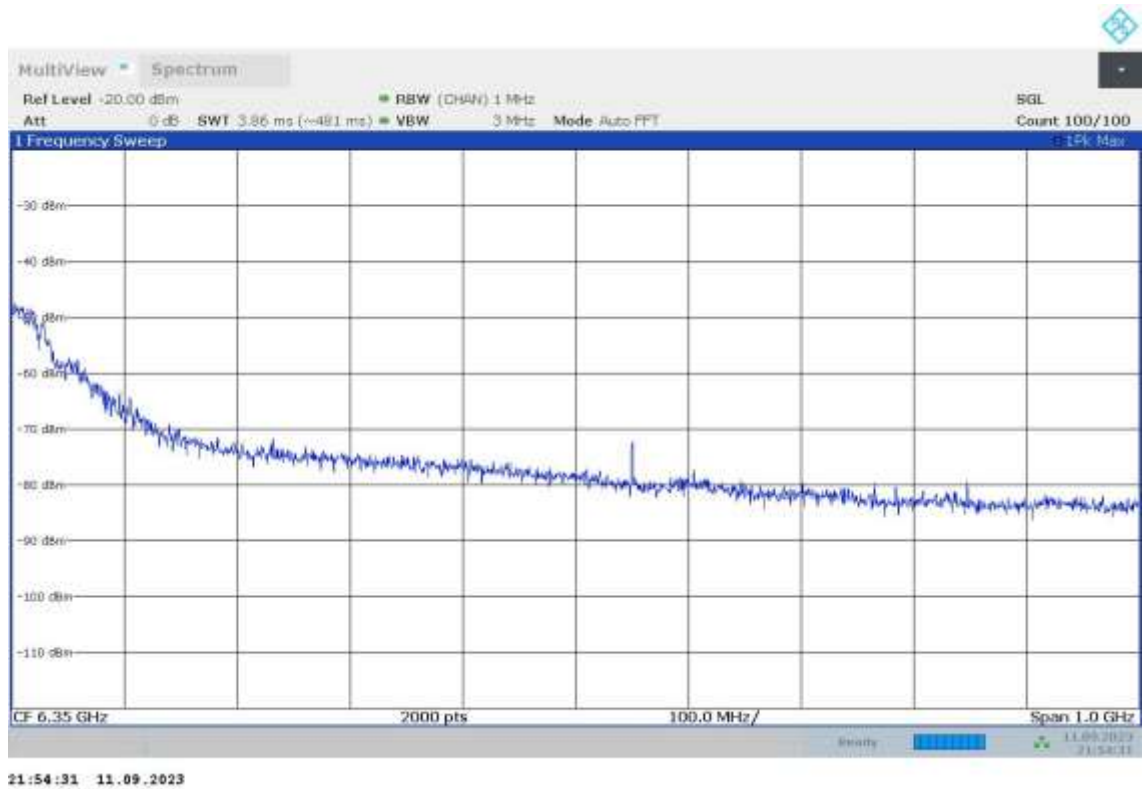
Modulation = 802.11ac VHT80 SS1 (OFDM MCS0)

MIMO Mode = SISO

Measurement Point = 1

Images:





Modulation: 802.11ax HE80 SS1 (OFDMA MCS0)

MIMO Mode: SISO

Results

U-NII-1

DUT Frequency	Result
5210.000000	PASS

DUT Frequency	Result
5210.000000	PASS

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
5140.250000	-33.6	6.6	-27.0	PASS
5126.750000	-34.1	7.1	-27.0	PASS
5127.250000	-34.3	7.3	-27.0	PASS
5140.750000	-34.5	7.5	-27.0	PASS
5145.250000	-34.5	7.5	-27.0	PASS
5131.250000	-34.7	7.7	-27.0	PASS
5138.750000	-34.8	7.8	-27.0	PASS
5130.750000	-34.8	7.8	-27.0	PASS
5118.750000	-34.8	7.8	-27.0	PASS
5149.250000	-34.8	7.8	-27.0	PASS
5122.750000	-34.8	7.8	-27.0	PASS
5144.750000	-34.9	7.9	-27.0	PASS
5139.750000	-35.0	8.0	-27.0	PASS
5111.250000	-35.2	8.2	-27.0	PASS
5139.250000	-35.4	8.4	-27.0	PASS

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
5354.250000	-50.3	23.3	-27.0	PASS
5354.750000	-50.4	23.4	-27.0	PASS
5352.250000	-52.2	25.2	-27.0	PASS
5351.750000	-52.5	25.5	-27.0	PASS
5350.250000	-52.7	25.7	-27.0	PASS
5364.750000	-53.1	26.1	-27.0	PASS
5356.250000	-53.1	26.1	-27.0	PASS
5362.250000	-53.1	26.1	-27.0	PASS
5350.750000	-53.2	26.2	-27.0	PASS
5353.750000	-53.2	26.2	-27.0	PASS
5352.750000	-53.3	26.3	-27.0	PASS
5355.250000	-53.3	26.3	-27.0	PASS
5366.250000	-53.3	26.3	-27.0	PASS
5421.750000	-53.3	26.3	-27.0	PASS
5351.250000	-53.3	26.3	-27.0	PASS

U-NII-3

DUT Frequency	Result
5775.000000	PASS

DUT Frequency	Result
5775.000000	PASS

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
5649.750000	-31.2	4.2	-27.0	PASS
5650.250000	-31.1	4.3	-26.8	PASS
5650.750000	-30.9	4.5	-26.4	PASS
5649.250000	-31.6	4.6	-27.0	PASS
5643.750000	-31.8	4.8	-27.0	PASS
5644.250000	-32.3	5.3	-27.0	PASS
5643.250000	-32.4	5.4	-27.0	PASS
5646.750000	-32.5	5.5	-27.0	PASS
5647.250000	-32.7	5.7	-27.0	PASS
5646.250000	-32.8	5.8	-27.0	PASS
5647.750000	-32.8	5.8	-27.0	PASS
5648.750000	-32.9	5.9	-27.0	PASS
5642.750000	-32.9	5.9	-27.0	PASS
5653.250000	-30.7	6.1	-24.6	PASS
5627.750000	-33.2	6.2	-27.0	PASS

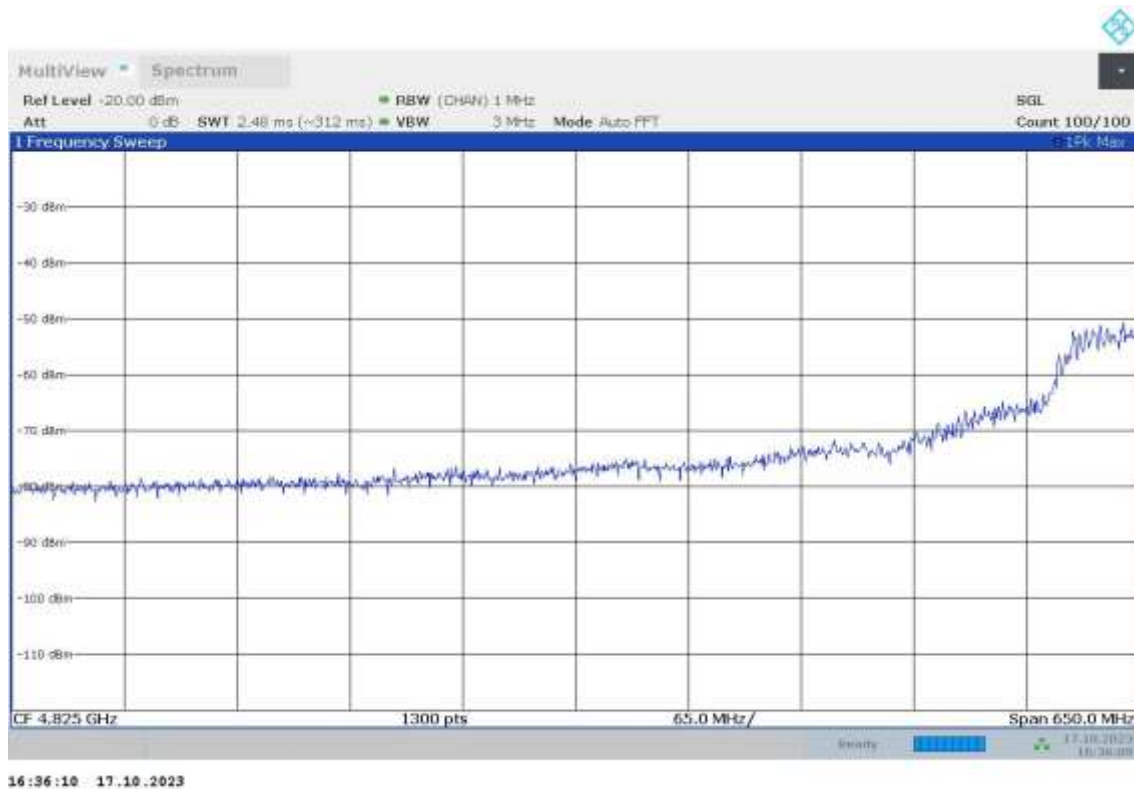
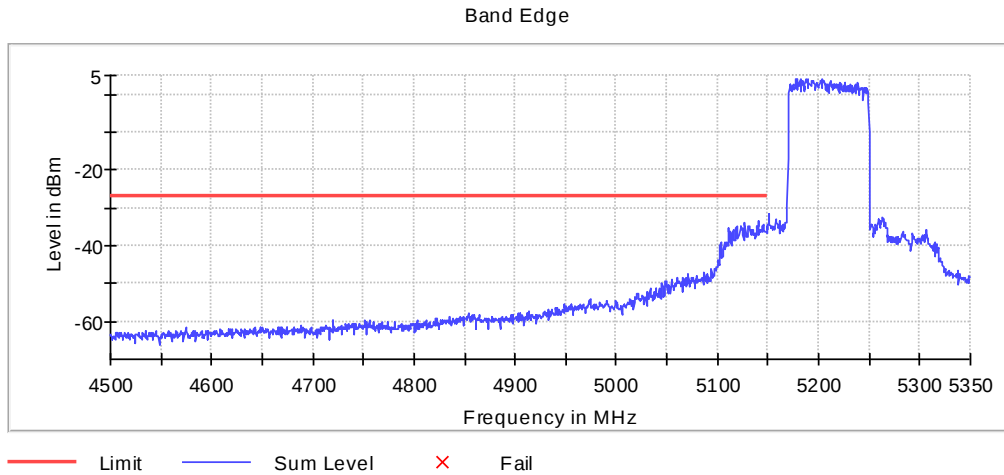
Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
5934.750000	-34.9	7.9	-27.0	PASS
5931.250000	-35.1	8.1	-27.0	PASS
5935.250000	-35.3	8.3	-27.0	PASS
5931.750000	-35.4	8.4	-27.0	PASS
5924.250000	-34.9	8.5	-26.4	PASS
5941.750000	-35.7	8.7	-27.0	PASS
5930.750000	-35.7	8.7	-27.0	PASS
5938.750000	-35.8	8.8	-27.0	PASS
5935.750000	-35.8	8.8	-27.0	PASS
5942.250000	-35.9	8.9	-27.0	PASS
5928.250000	-36.0	9.0	-27.0	PASS
5924.750000	-35.9	9.1	-26.8	PASS
5927.750000	-36.3	9.3	-27.0	PASS
5939.250000	-36.3	9.3	-27.0	PASS
5938.250000	-36.5	9.5	-27.0	PASS

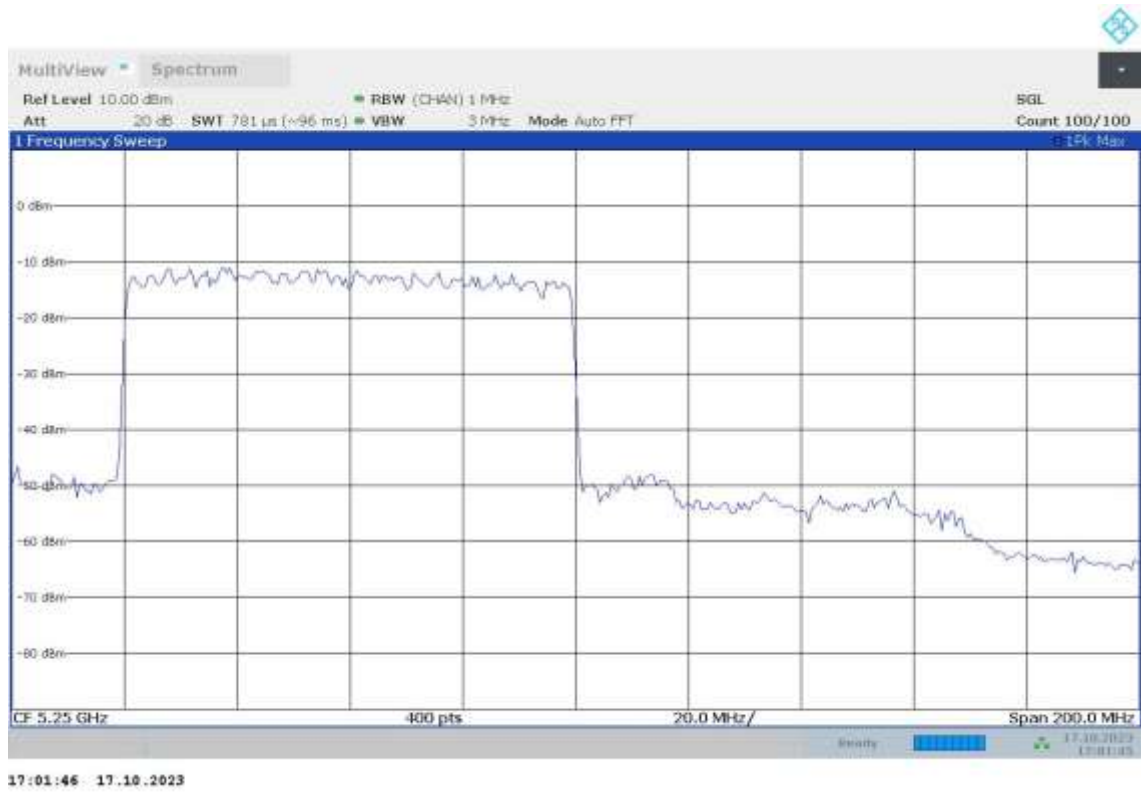
Verdict

Pass

Operation Band MHz = [5150, 5850] Active Port = 1
Frequency MHz = 5210.00000 Modulation = 802.11ax HE80 SS1 (OFDMA MCS0)
MIMO Mode = SISO Measurement Point = 1

Images:

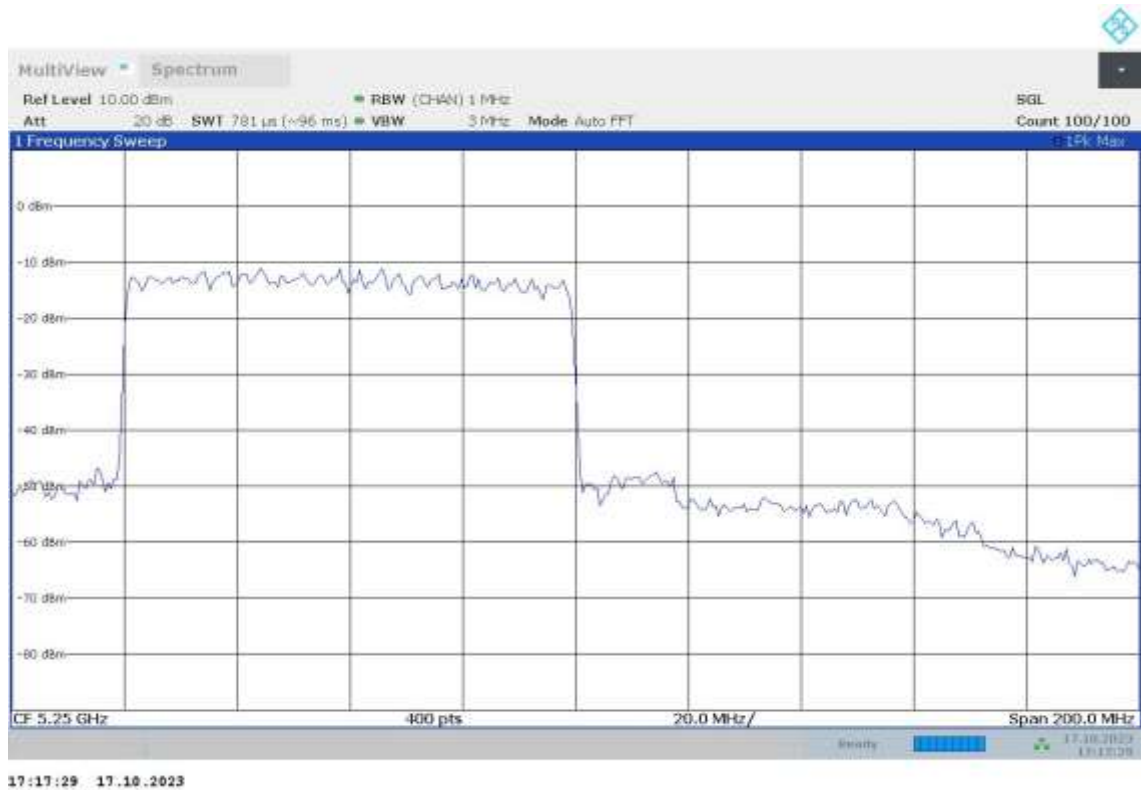
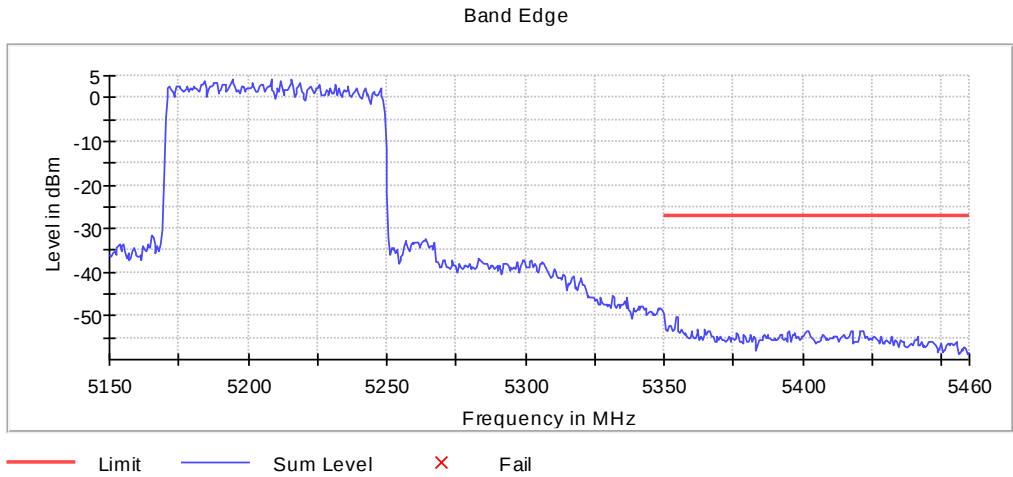




Attachments

Operation Band MHz = [5150, 5850] Active Port = 1
Frequency MHz = 5210.00000 Modulation = 802.11ax HE80 SS1 (OFDMA MCS0)
MIMO Mode = SISO Measurement Point = 1

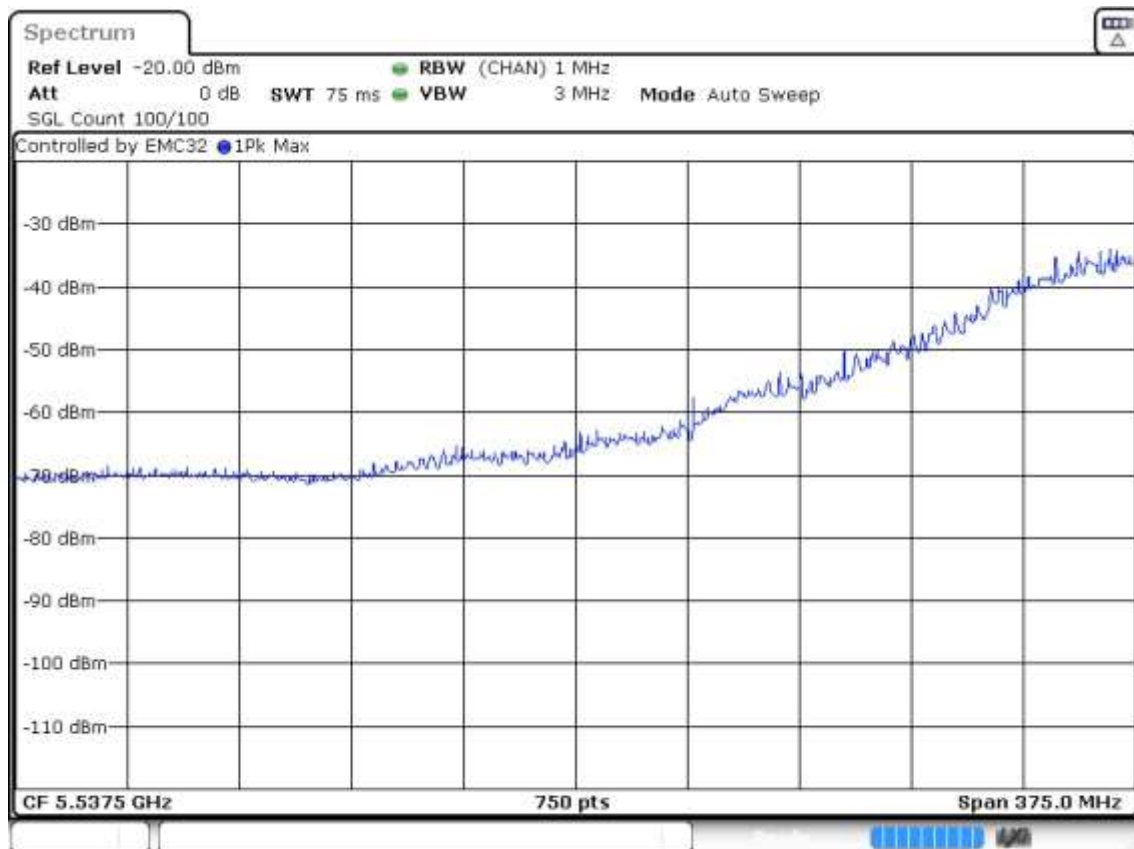
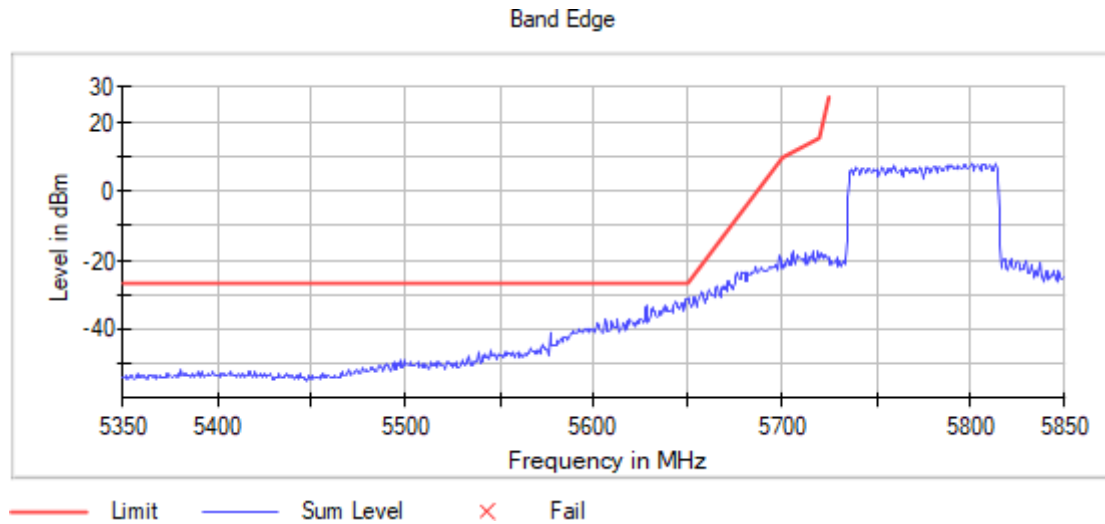
Images:



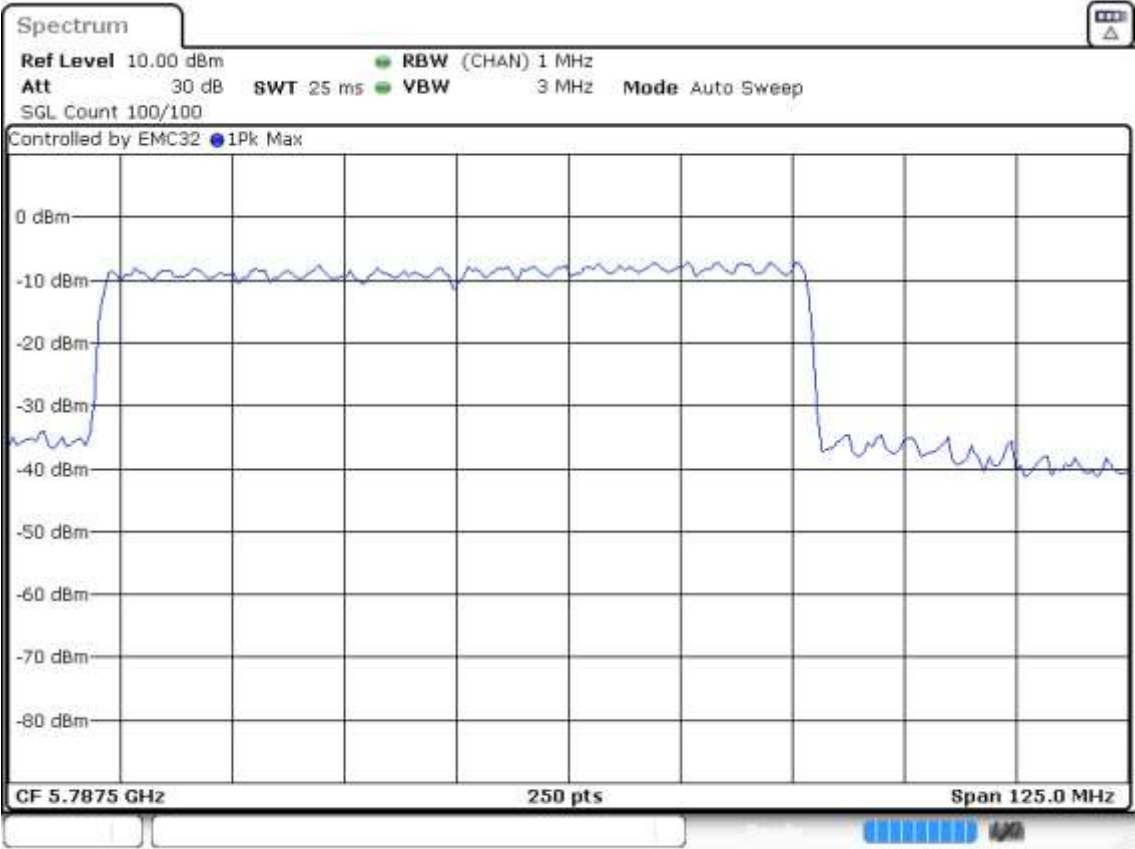


Operation Band MHz = [5150, 5850] Active Port = 1
Frequency MHz = 5775.00000 Modulation = 802.11ax HE80 SS1 (OFDMA MCS0)
MIMO Mode = SISO Measurement Point = 1

Images:



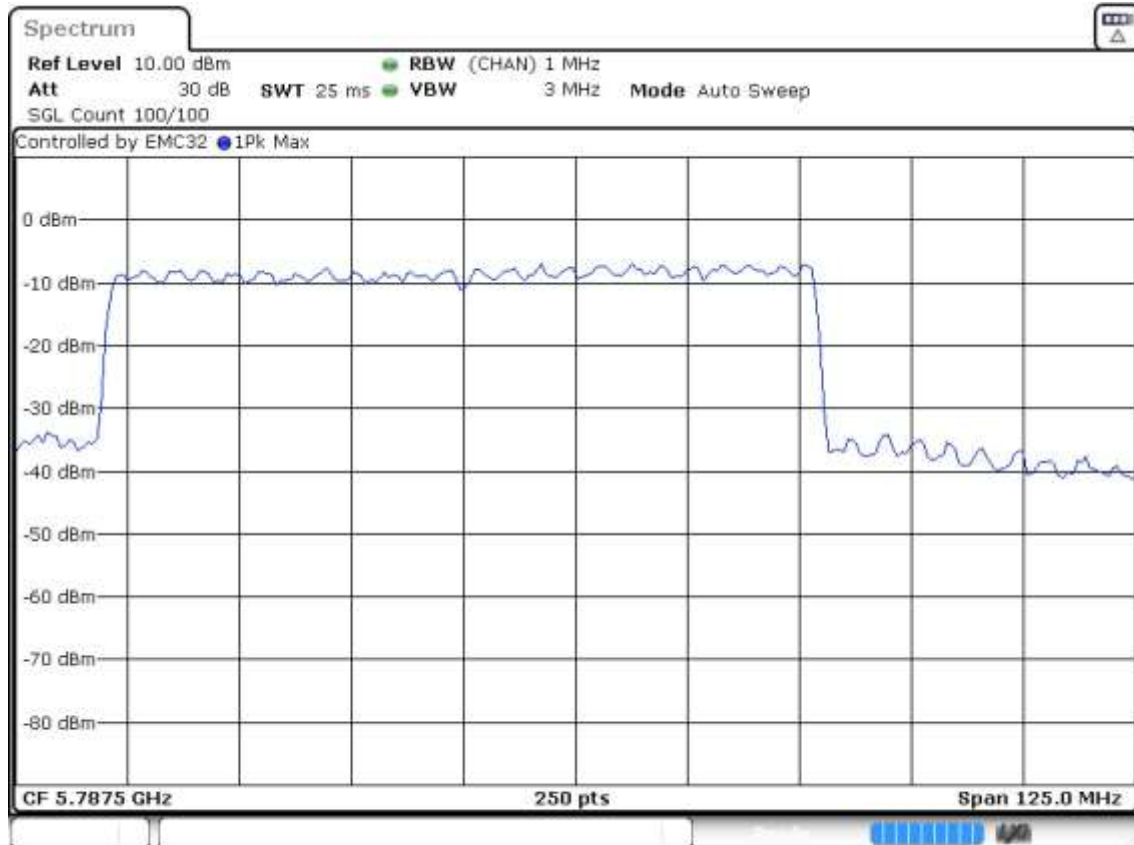
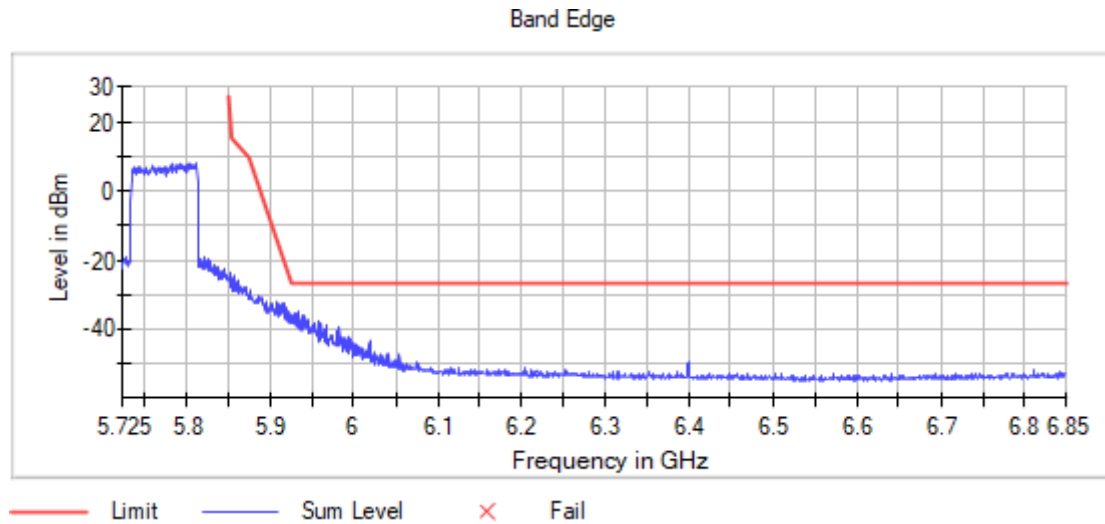
Date: 12 SEP.2023 11:58:29



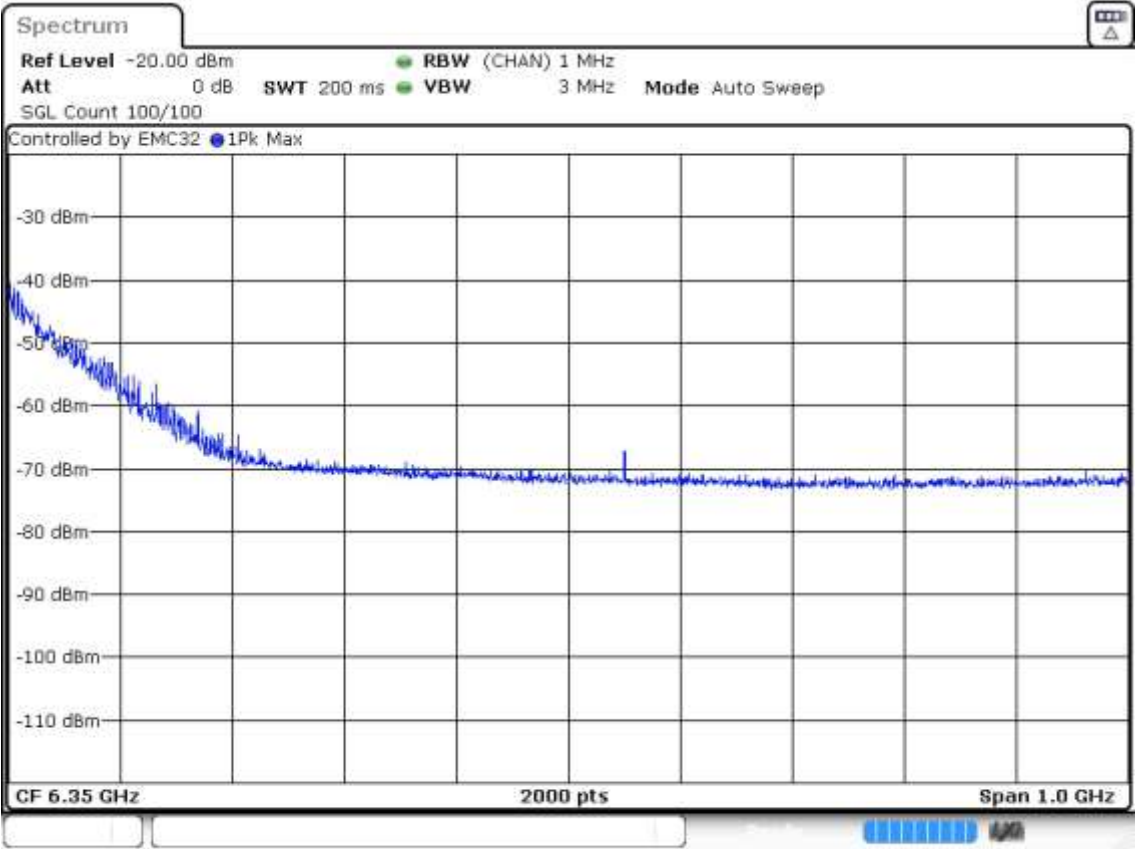
Date: 12 SEP.2023 11:59:28

Operation Band MHz = [5150, 5850] Active Port = 1
Frequency MHz = 5775.00000 Modulation = 802.11ax HE80 SS1 (OFDMA MCS0)
MIMO Mode = SISO Measurement Point = 1

Images:



Date: 12 SEP.2023 12:00:50



Date: 12 SEP.2023 12:07:19

Modulation: 802.11a (OFDM 6 Mbit/s)

MIMO Mode: SISO

Results

U-NII-1

DUT Frequency	Result
5180.000000	PASS

DUT Frequency	Result
5240.000000	PASS

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
5148.250000	-34.8	7.8	-27.0	PASS
5148.750000	-34.8	7.8	-27.0	PASS
5149.750000	-36.1	9.1	-27.0	PASS
5149.250000	-36.9	9.9	-27.0	PASS
5147.250000	-37.2	10.2	-27.0	PASS
5147.750000	-37.3	10.3	-27.0	PASS
5146.750000	-37.4	10.4	-27.0	PASS
5146.250000	-37.4	10.4	-27.0	PASS
5145.750000	-37.8	10.8	-27.0	PASS
5141.750000	-38.0	11.0	-27.0	PASS
5142.750000	-38.1	11.1	-27.0	PASS
5142.250000	-38.3	11.3	-27.0	PASS
5143.250000	-38.3	11.3	-27.0	PASS
5144.750000	-38.4	11.4	-27.0	PASS
5145.250000	-38.5	11.5	-27.0	PASS

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
5379.750000	-50.6	23.6	-27.0	PASS
5379.250000	-50.9	23.9	-27.0	PASS
5353.250000	-51.1	24.1	-27.0	PASS
5358.250000	-51.4	24.4	-27.0	PASS
5367.750000	-51.5	24.5	-27.0	PASS
5357.750000	-51.6	24.6	-27.0	PASS
5350.750000	-51.6	24.6	-27.0	PASS
5381.750000	-51.8	24.8	-27.0	PASS
5368.750000	-51.8	24.8	-27.0	PASS
5380.750000	-51.8	24.8	-27.0	PASS
5370.250000	-51.8	24.8	-27.0	PASS
5366.750000	-51.8	24.8	-27.0	PASS
5381.250000	-51.8	24.8	-27.0	PASS
5368.250000	-51.8	24.8	-27.0	PASS
5371.250000	-51.8	24.8	-27.0	PASS

U-NII-3

DUT Frequency	Result
5745.000000	PASS

DUT Frequency	Result
5825.000000	PASS

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
5647.750000	-53.1	26.1	-27.0	PASS
5650.250000	-53.3	26.5	-26.8	PASS
5589.750000	-53.6	26.6	-27.0	PASS
5606.750000	-53.7	26.7	-27.0	PASS
5650.750000	-53.2	26.8	-26.4	PASS
5588.250000	-53.8	26.8	-27.0	PASS
5582.750000	-53.9	26.9	-27.0	PASS
5586.750000	-54.0	27.0	-27.0	PASS
5588.750000	-54.0	27.0	-27.0	PASS
5639.250000	-54.0	27.0	-27.0	PASS
5580.750000	-54.1	27.1	-27.0	PASS
5595.750000	-54.1	27.1	-27.0	PASS
5592.250000	-54.1	27.1	-27.0	PASS
5583.750000	-54.1	27.1	-27.0	PASS
5649.750000	-54.1	27.1	-27.0	PASS

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
5942.250000	-50.6	23.6	-27.0	PASS
5941.750000	-50.6	23.6	-27.0	PASS
5957.750000	-52.3	25.3	-27.0	PASS
5952.250000	-52.3	25.3	-27.0	PASS
5932.750000	-52.4	25.4	-27.0	PASS
5927.250000	-52.6	25.6	-27.0	PASS
5950.750000	-52.6	25.6	-27.0	PASS
5927.750000	-52.7	25.7	-27.0	PASS
5926.250000	-52.7	25.7	-27.0	PASS
5967.250000	-52.8	25.8	-27.0	PASS
5937.250000	-52.8	25.8	-27.0	PASS
5985.250000	-52.8	25.8	-27.0	PASS
5966.750000	-52.9	25.9	-27.0	PASS
5985.750000	-52.9	25.9	-27.0	PASS
5938.750000	-53.0	26.0	-27.0	PASS

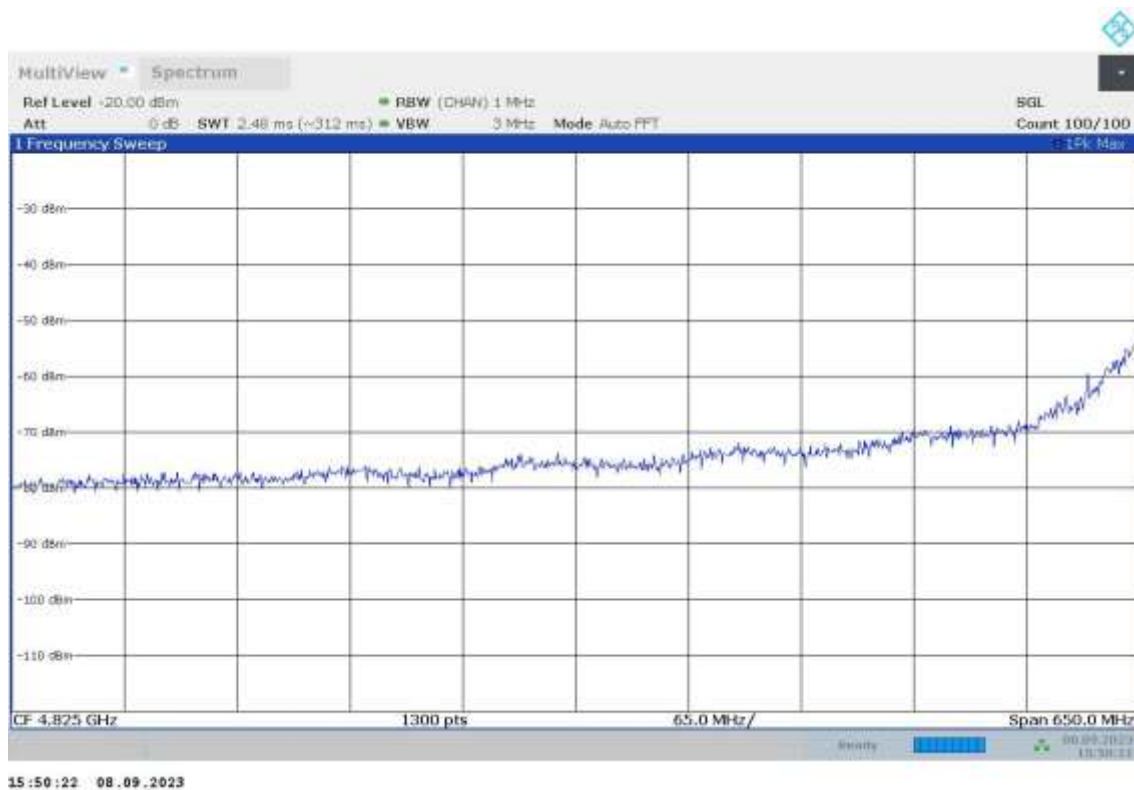
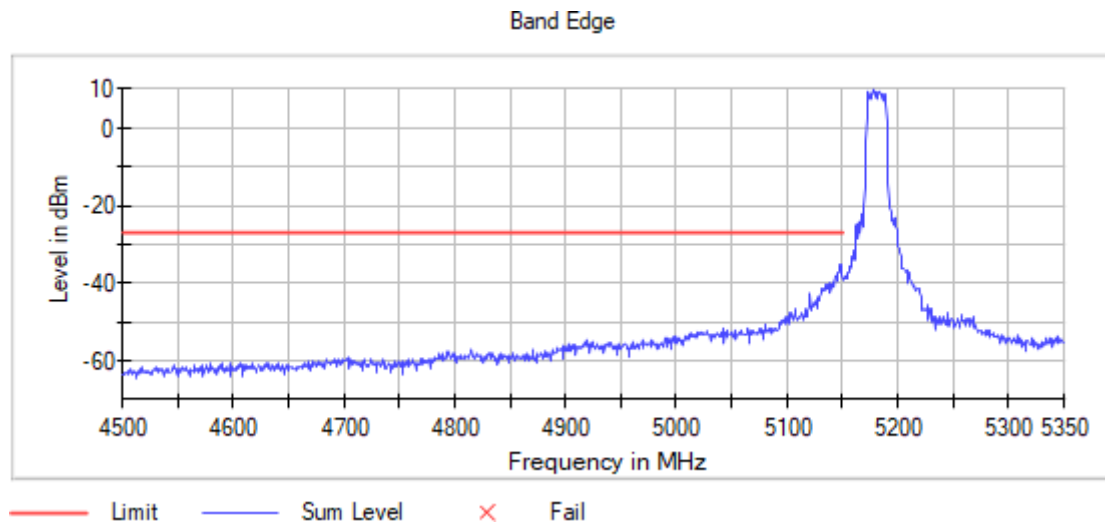
Verdict

Pass

Attachments

Operation Band MHz = [5150, 5850] Active Port = 1
Frequency MHz = 5180.00000 Modulation = 802.11a (OFDM 6 Mbit/s)
MIMO Mode = SISO Measurement Point = 1

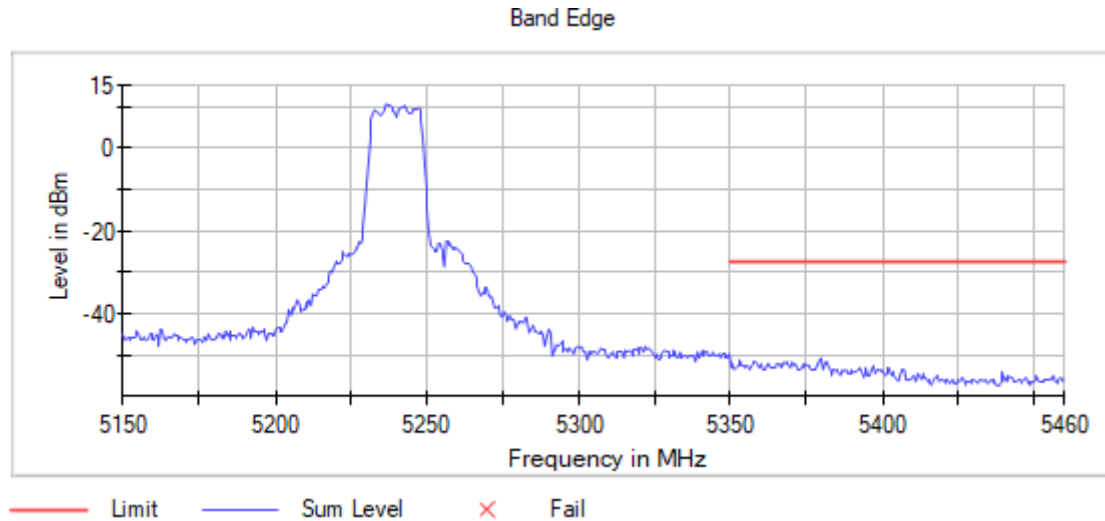
Images:

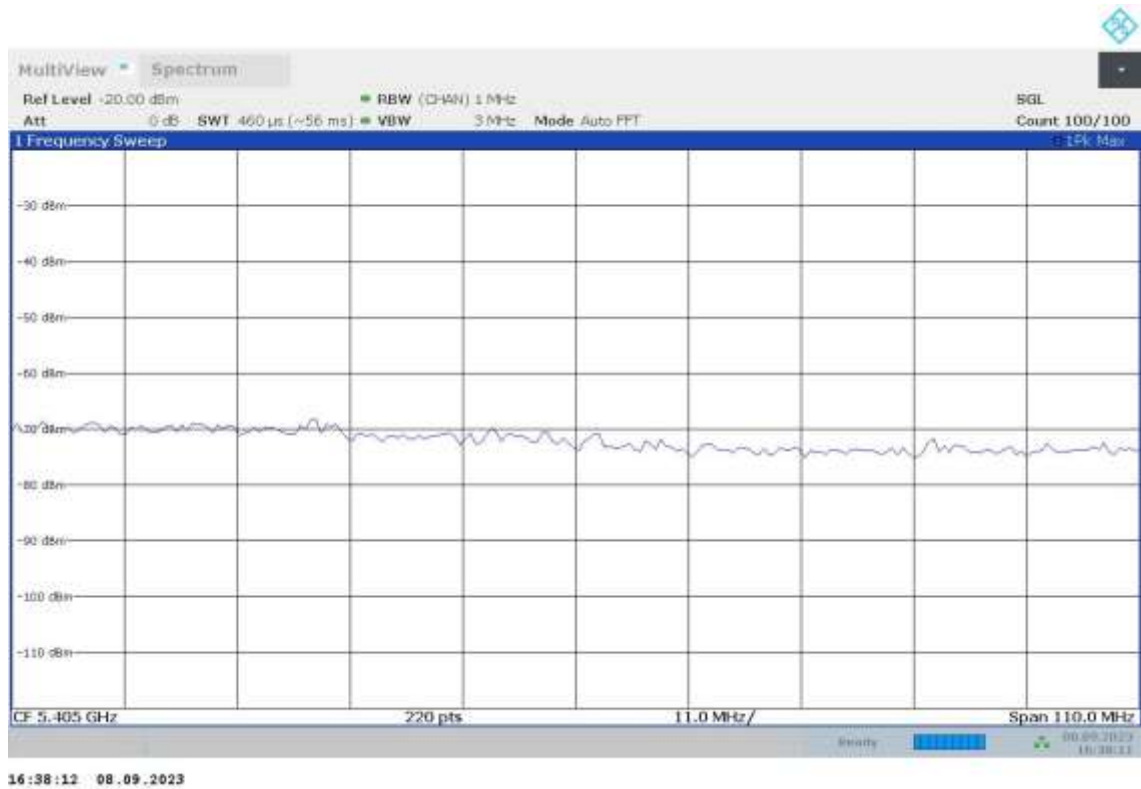




Operation Band MHz = [5150, 5850] Active Port = 1
Frequency MHz = 5240.00000 Modulation = 802.11a (OFDM 6 Mbit/s)
MIMO Mode = SISO Measurement Point = 1

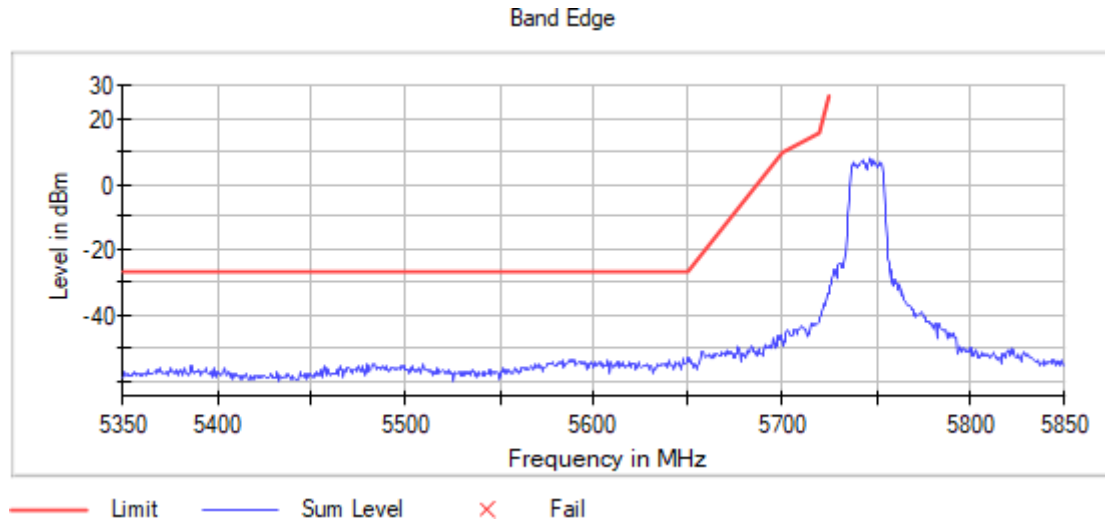
Images:





Operation Band MHz = [5150, 5850] Active Port = 1
Frequency MHz = 5745.00000 Modulation = 802.11a (OFDM 6 Mbit/s)
MIMO Mode = SISO Measurement Point = 1

Images:

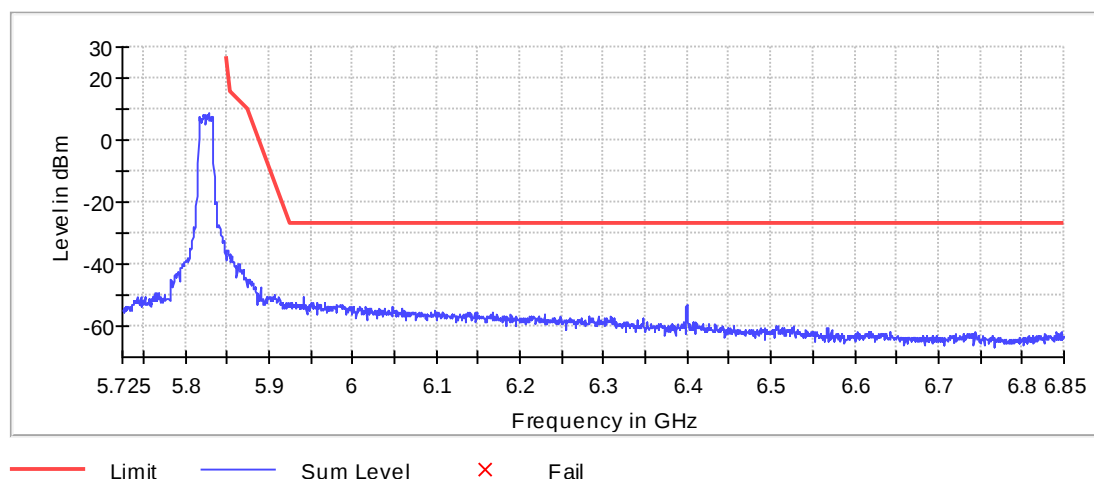


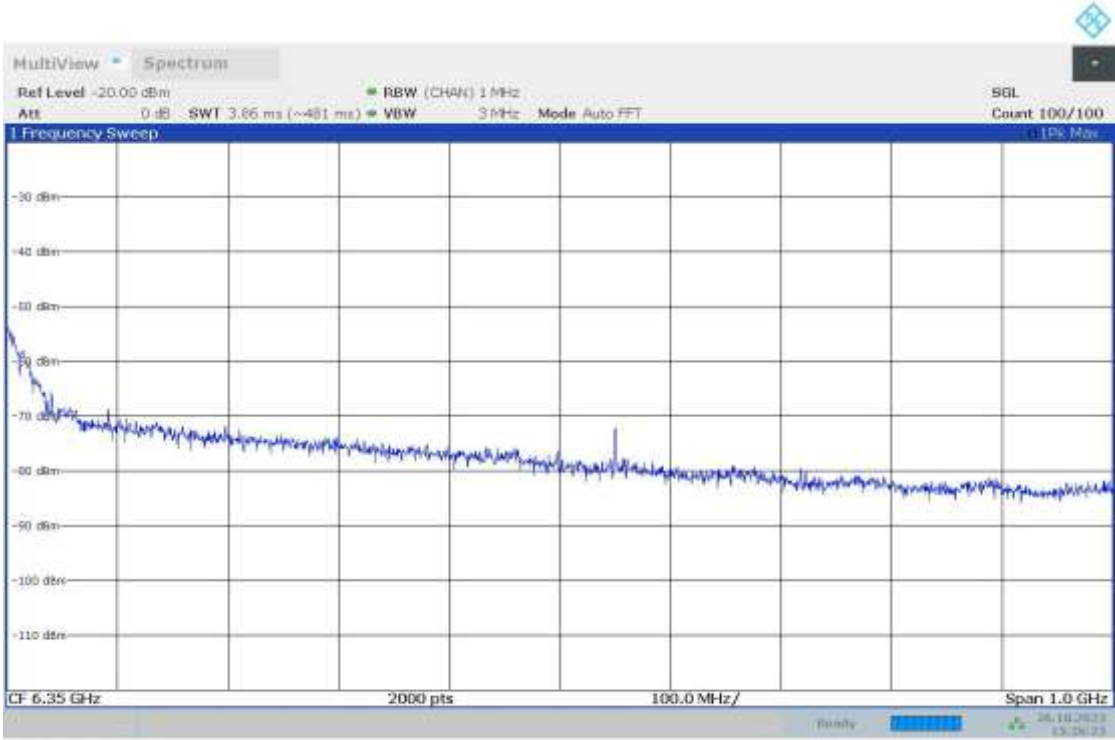


Operation Band MHz = [5150, 5850] Active Port = 1
Frequency MHz = 5825.00000 Modulation = 802.11a (OFDM 6 Mbit/s)
MIMO Mode = SISO Measurement Point = 1

Images:

Band Edge





15:26:25 26.10.2023

Modulation: 802.11n HT20 (OFDM MCS0)

MIMO Mode: SISO

Results

U-NII-1

DUT Frequency	Result
5180.000000	PASS

DUT Frequency	Result
5240.000000	PASS

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
5147.250000	-37.8	10.8	-27.0	PASS
5146.750000	-37.9	10.9	-27.0	PASS
5148.250000	-38.3	11.3	-27.0	PASS
5148.750000	-38.5	11.5	-27.0	PASS
5149.250000	-38.9	11.9	-27.0	PASS
5147.750000	-39.0	12.0	-27.0	PASS
5149.750000	-39.1	12.1	-27.0	PASS
5144.750000	-39.3	12.3	-27.0	PASS
5143.250000	-39.4	12.4	-27.0	PASS
5145.750000	-39.6	12.6	-27.0	PASS
5146.250000	-39.7	12.7	-27.0	PASS
5143.750000	-39.8	12.8	-27.0	PASS
5144.250000	-39.9	12.9	-27.0	PASS
5145.250000	-40.1	13.1	-27.0	PASS
5141.250000	-40.3	13.3	-27.0	PASS

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
5393.250000	-52.4	25.4	-27.0	PASS
5359.250000	-52.5	25.5	-27.0	PASS
5358.750000	-52.8	25.8	-27.0	PASS
5351.250000	-52.9	25.9	-27.0	PASS
5355.750000	-52.9	25.9	-27.0	PASS
5369.250000	-52.9	25.9	-27.0	PASS
5364.750000	-53.0	26.0	-27.0	PASS
5361.750000	-53.0	26.0	-27.0	PASS
5362.750000	-53.1	26.1	-27.0	PASS
5369.750000	-53.1	26.1	-27.0	PASS
5351.750000	-53.1	26.1	-27.0	PASS
5355.250000	-53.2	26.2	-27.0	PASS
5359.750000	-53.4	26.4	-27.0	PASS
5393.750000	-53.5	26.5	-27.0	PASS
5377.250000	-53.6	26.6	-27.0	PASS

U-NII-3

DUT Frequency	Result
5745.000000	PASS

DUT Frequency	Result
5825.000000	PASS

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
5639.750000	-52.3	25.3	-27.0	PASS
5639.250000	-52.6	25.6	-27.0	PASS
5640.250000	-53.1	26.1	-27.0	PASS
5647.750000	-53.2	26.2	-27.0	PASS
5634.750000	-53.6	26.6	-27.0	PASS
5632.750000	-53.7	26.7	-27.0	PASS
5635.250000	-53.8	26.8	-27.0	PASS
5538.250000	-53.8	26.8	-27.0	PASS
5528.250000	-53.9	26.9	-27.0	PASS
5643.750000	-54.0	27.0	-27.0	PASS
5651.250000	-53.1	27.0	-26.1	PASS
5628.750000	-54.1	27.1	-27.0	PASS
5648.250000	-54.1	27.1	-27.0	PASS
5635.750000	-54.1	27.1	-27.0	PASS
5555.750000	-54.1	27.1	-27.0	PASS

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
5992.250000	-52.2	25.2	-27.0	PASS
5981.750000	-52.3	25.3	-27.0	PASS
5991.750000	-52.4	25.4	-27.0	PASS
5925.750000	-52.5	25.5	-27.0	PASS
5990.750000	-52.5	25.5	-27.0	PASS
5990.250000	-52.6	25.6	-27.0	PASS
5964.250000	-52.8	25.8	-27.0	PASS
5926.250000	-52.9	25.9	-27.0	PASS
5924.750000	-52.9	26.1	-26.8	PASS
5989.250000	-53.2	26.2	-27.0	PASS
5991.250000	-53.2	26.2	-27.0	PASS
6399.750000	-53.2	26.2	-27.0	PASS
6399.250000	-53.3	26.3	-27.0	PASS
5982.250000	-53.3	26.3	-27.0	PASS
6012.750000	-53.4	26.4	-27.0	PASS

Verdict

Pass

Attachments

Operation Band MHz = [5150, 5850] Active Port = 1

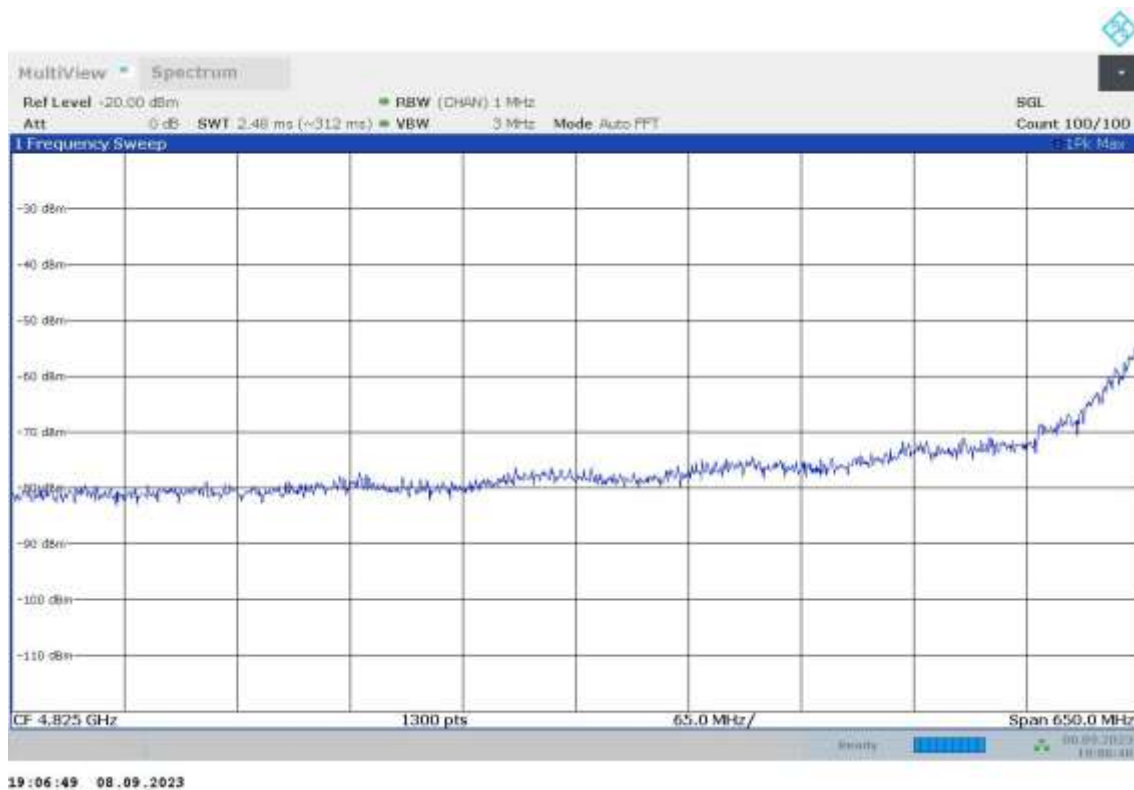
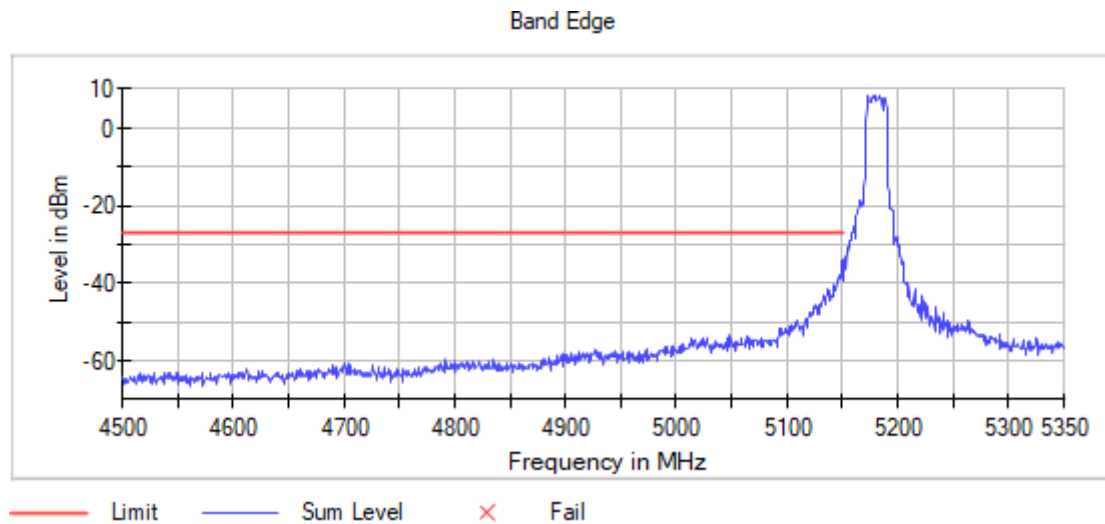
Frequency MHz = 5180.00000

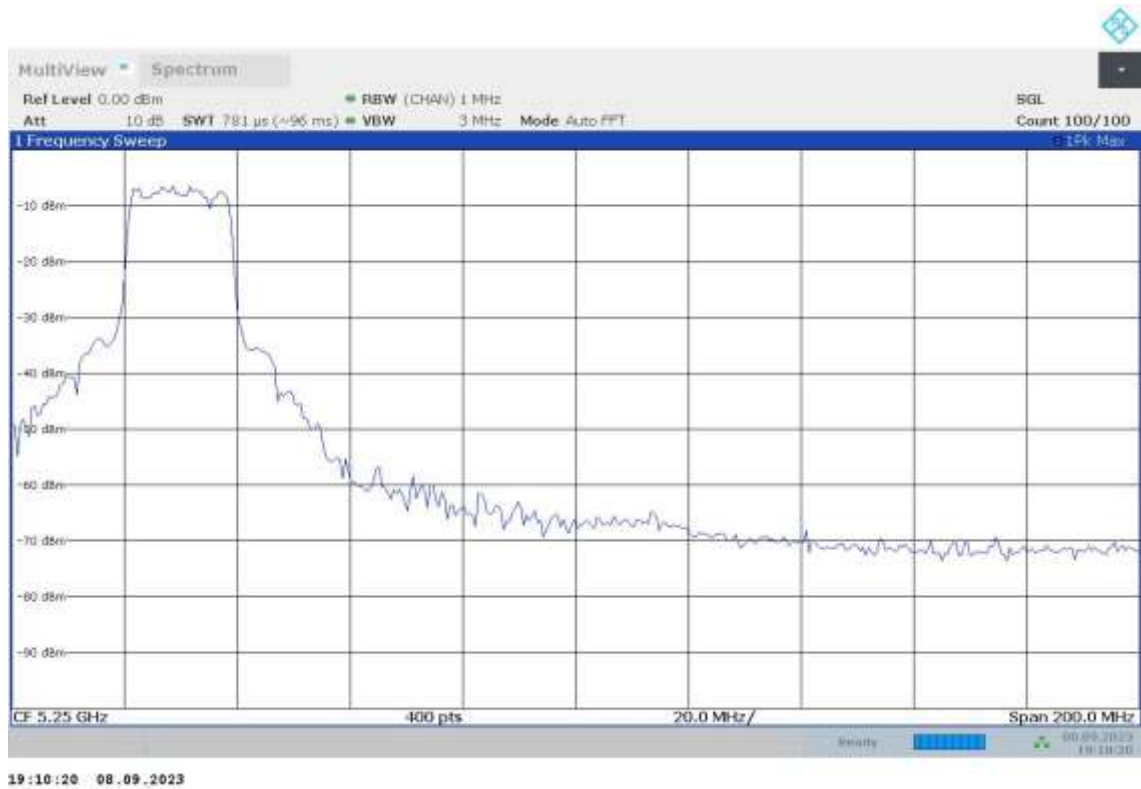
Modulation = 802.11n HT20 (OFDM MCS0)

MIMO Mode = SISO

Measurement Point = 1

Images:





Operation Band MHz = [5150, 5850] Active Port = 1

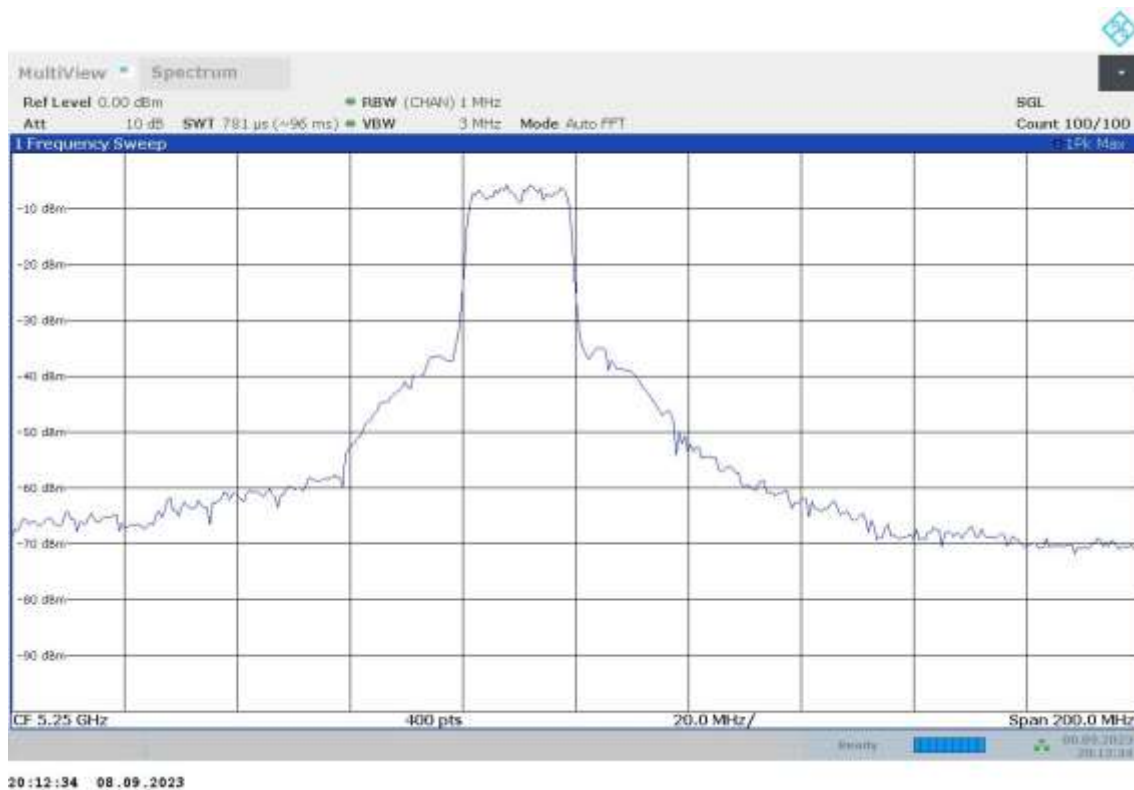
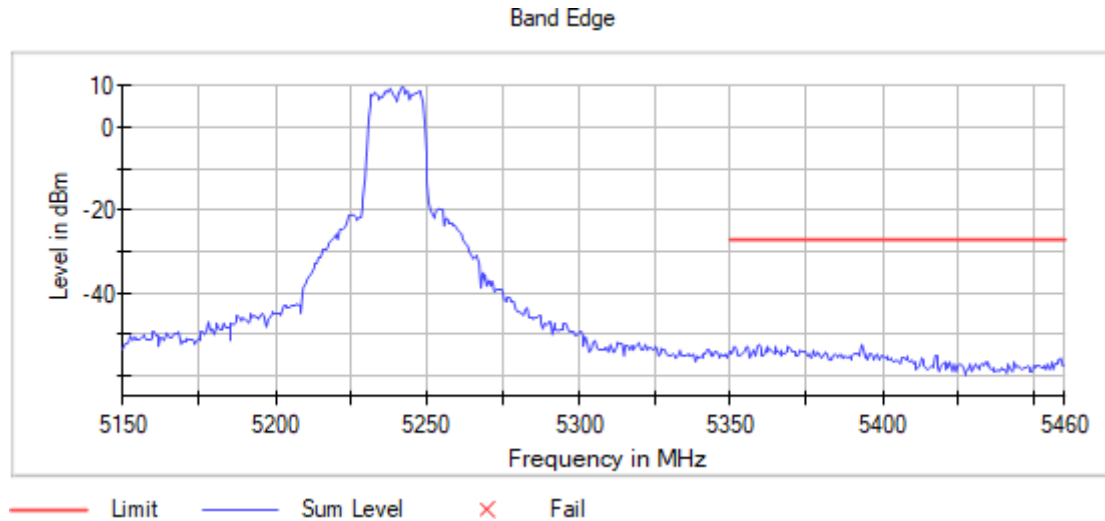
Frequency MHz = 5240.00000

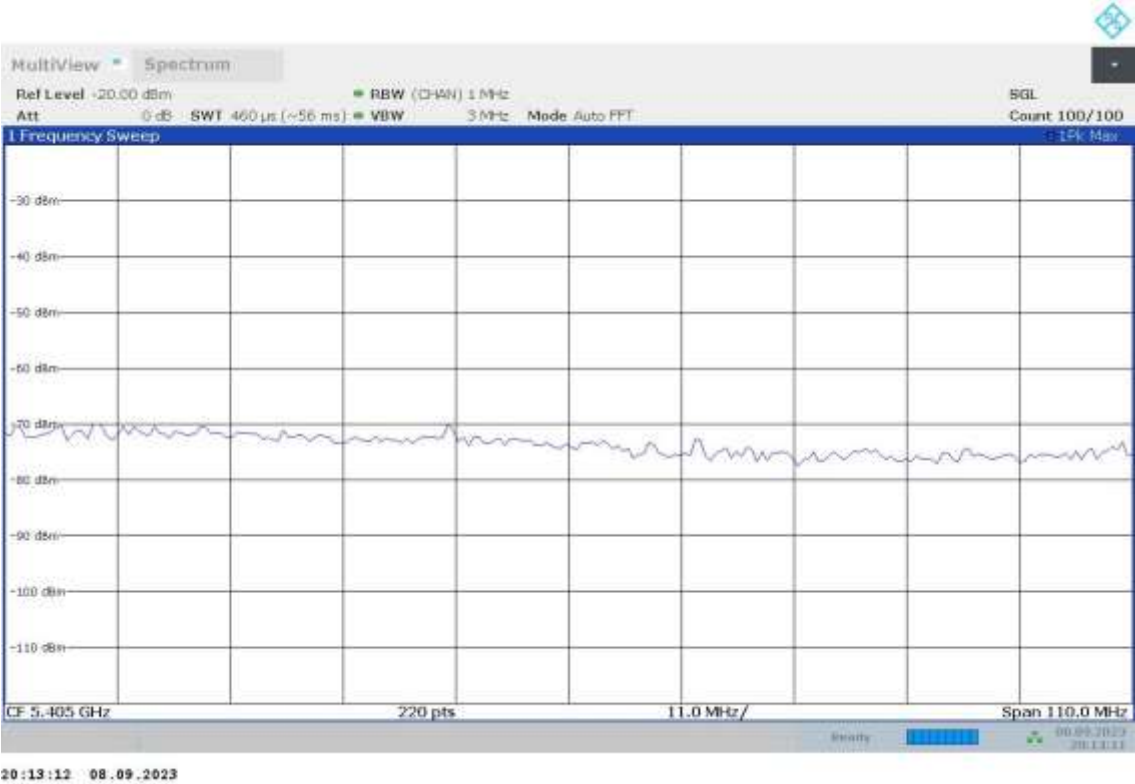
Modulation = 802.11n HT20 (OFDM MCS0)

MIMO Mode = SISO

Measurement Point = 1

Images:





Operation Band MHz = [5150, 5850] Active Port = 1

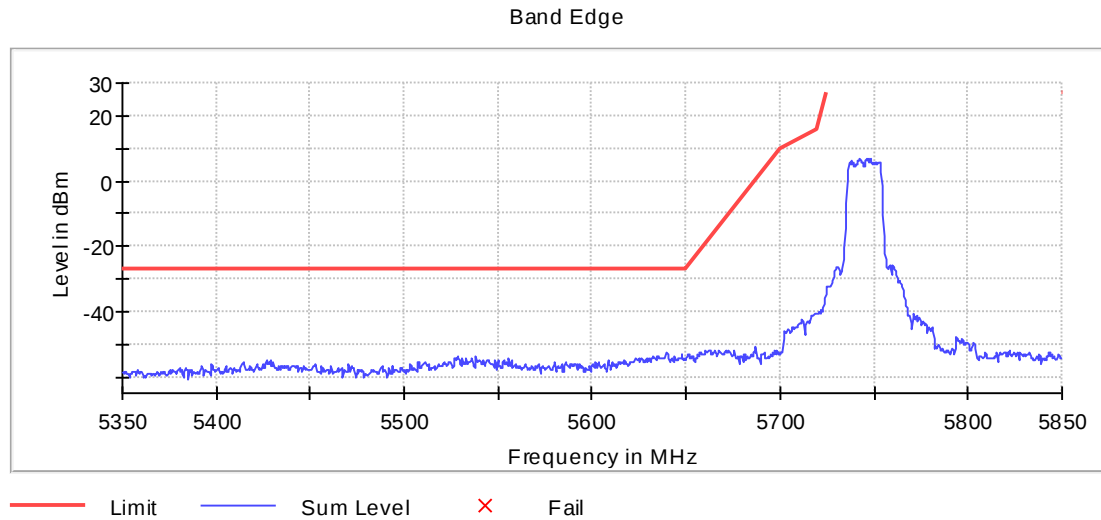
Frequency MHz = 5745.00000

Modulation = 802.11n HT20 (OFDM MCS0)

MIMO Mode = SISO

Measurement Point = 1

Images:





16:01:17 26.10.2023

Operation Band MHz = [5150, 5850] Active Port = 1

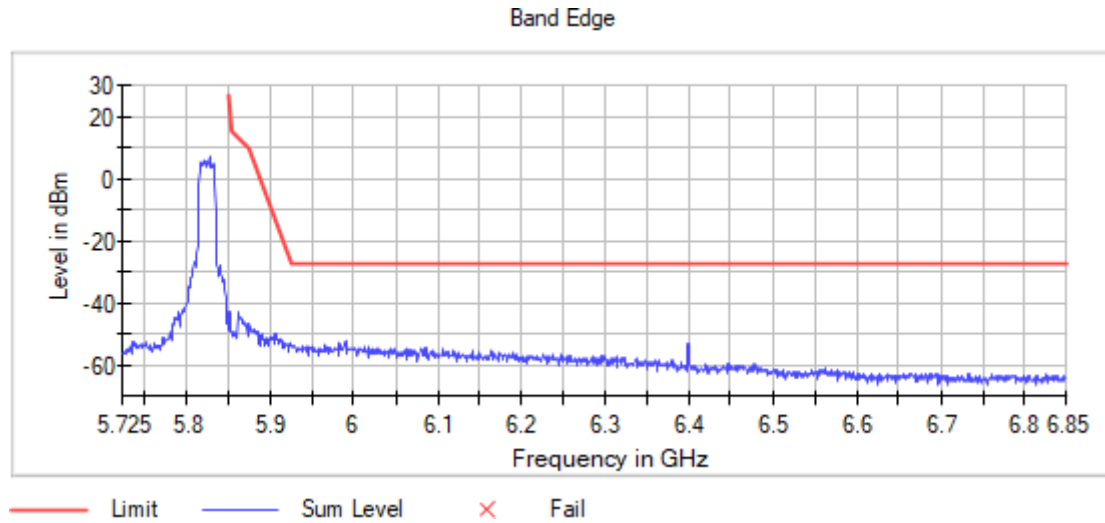
Frequency MHz = 5825.00000

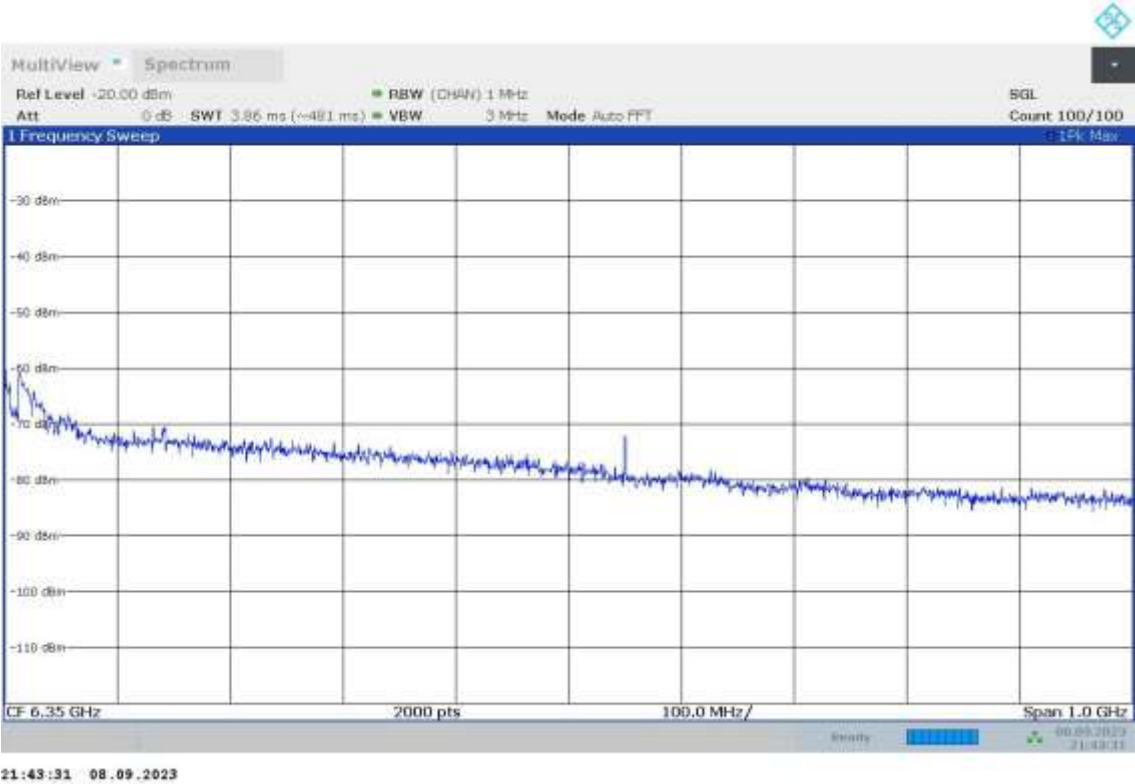
Modulation = 802.11n HT20 (OFDM MCS0)

MIMO Mode = SISO

Measurement Point = 1

Images:





Modulation: 802.11n HT40 (OFDM MCS0)

MIMO Mode: SISO

Results

U-NII-1

DUT Frequency	Result
5190.000000	PASS

DUT Frequency	Result
5230.000000	PASS

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
5149.250000	-34.6	7.6	-27.0	PASS
5149.750000	-34.7	7.7	-27.0	PASS
5148.750000	-35.7	8.7	-27.0	PASS
5145.250000	-36.1	9.1	-27.0	PASS
5146.250000	-36.4	9.4	-27.0	PASS
5145.750000	-36.4	9.4	-27.0	PASS
5143.750000	-36.4	9.4	-27.0	PASS
5147.250000	-36.5	9.5	-27.0	PASS
5144.250000	-36.6	9.6	-27.0	PASS
5144.750000	-36.6	9.6	-27.0	PASS
5131.750000	-36.7	9.7	-27.0	PASS
5147.750000	-36.8	9.8	-27.0	PASS
5146.750000	-37.0	10.0	-27.0	PASS
5134.250000	-37.1	10.1	-27.0	PASS
5148.250000	-37.2	10.2	-27.0	PASS

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
5386.250000	-53.5	26.5	-27.0	PASS
5406.750000	-53.5	26.5	-27.0	PASS
5387.250000	-53.6	26.6	-27.0	PASS
5399.750000	-53.7	26.7	-27.0	PASS
5372.750000	-53.7	26.7	-27.0	PASS
5443.250000	-54.2	27.2	-27.0	PASS
5401.750000	-54.2	27.2	-27.0	PASS
5370.250000	-54.3	27.3	-27.0	PASS
5396.750000	-54.4	27.4	-27.0	PASS
5401.250000	-54.4	27.4	-27.0	PASS
5386.750000	-54.5	27.5	-27.0	PASS
5427.750000	-54.6	27.6	-27.0	PASS
5399.250000	-54.6	27.6	-27.0	PASS
5372.250000	-54.6	27.6	-27.0	PASS
5405.750000	-54.6	27.6	-27.0	PASS

U-NII-3

DUT Frequency	Result
5755.000000	PASS

DUT Frequency	Result
5795.000000	PASS

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
5649.250000	-47.9	20.9	-27.0	PASS
5649.750000	-49.7	22.7	-27.0	PASS
5636.250000	-49.7	22.7	-27.0	PASS
5650.750000	-49.7	23.3	-26.4	PASS
5640.250000	-50.4	23.4	-27.0	PASS
5645.250000	-50.5	23.5	-27.0	PASS
5642.250000	-50.5	23.5	-27.0	PASS
5648.250000	-50.7	23.7	-27.0	PASS
5635.750000	-50.8	23.8	-27.0	PASS
5639.250000	-50.8	23.8	-27.0	PASS
5650.250000	-50.6	23.8	-26.8	PASS
5634.750000	-50.9	23.9	-27.0	PASS
5641.750000	-51.0	24.0	-27.0	PASS
5651.250000	-50.2	24.1	-26.1	PASS
5652.250000	-49.6	24.3	-25.3	PASS

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
5925.250000	-50.4	23.4	-27.0	PASS
5928.250000	-50.5	23.5	-27.0	PASS
5934.250000	-50.8	23.8	-27.0	PASS
5924.750000	-50.7	23.9	-26.8	PASS
5932.750000	-50.9	23.9	-27.0	PASS
5928.750000	-51.1	24.1	-27.0	PASS
5938.250000	-51.1	24.1	-27.0	PASS
5929.250000	-51.4	24.4	-27.0	PASS
5936.250000	-51.5	24.5	-27.0	PASS
5937.250000	-51.6	24.6	-27.0	PASS
5935.750000	-51.6	24.6	-27.0	PASS
5927.250000	-51.7	24.7	-27.0	PASS
5948.750000	-51.7	24.7	-27.0	PASS
5949.750000	-51.8	24.8	-27.0	PASS
5924.250000	-51.3	24.8	-26.4	PASS

Verdict

Pass