

FCC Radio Test Report

FCC ID : TVE-3518T01236

Equipment : Secured Wireless Access Point

Brand Name : FORTINET

Model Name : FortiAP 231Gxxxxxx, FORTIAP-231Gxxxxxx, FAP-231Gxxxxxx,
(where “x” can be used as “A-Z”, or “0-9”, or “-”, or blank for
software changes or marketing purposes only)

Applicant : Fortinet, Inc.
899 Kifer Road, Sunnyvale, CA 94086, USA

Manufacturer : Fortinet, Inc.
899 Kifer Road, Sunnyvale, CA 94086, USA

Standard : 47 CFR FCC Part 15.407

The product was received on Jun. 29, 2022, and testing was started from Aug. 08, 2022 and completed on Nov. 15, 2022. We, SPORTON INTERNATIONAL INC. Hsinhua Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC. Hsinhua Laboratory, the test report shall not be reproduced except in full.


Approved by: Jackson Tsai

SPORTON INTERNATIONAL INC. Hsinhua Laboratory

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Table of Contents

HISTORY OF THIS TEST REPORT	3
SUMMARY OF TEST RESULT	4
1 GENERAL DESCRIPTION	5
1.1 Information.....	5
1.2 Testing Applied Standards	10
1.3 Testing Location Information	10
1.4 Measurement Uncertainty	10
2 TEST CONFIGURATION OF EUT.....	11
2.1 Test Channel Mode	11
2.2 The Worst Case Measurement Configuration	20
2.3 Accessories	22
2.4 Support Equipment.....	22
2.5 Test Setup Diagram	23
3 TRANSMITTER TEST RESULT	24
3.1 AC Power-line Conducted Emissions	24
3.2 Emission Bandwidth	26
3.3 Maximum Conducted Output Power	27
3.4 Peak Power Spectral Density.....	29
3.5 Unwanted Emissions.....	31
4 TEST EQUIPMENT AND CALIBRATION DATA.....	35
APPENDIX A. TEST RESULTS OF AC POWER-LINE CONDUCTED EMISSIONS	
APPENDIX B. TEST RESULTS OF EMISSION BANDWIDTH	
APPENDIX C. TEST RESULTS OF MAXIMUM CONDUCTED OUTPUT POWER	
APPENDIX D. TEST RESULTS OF PEAK POWER SPECTRAL DENSITY	
APPENDIX E. TEST RESULTS OF UNWANTED EMISSIONS	
APPENDIX F. TEST RESULTS OF RADIATED EMISSION CO-LOCATION	
APPENDIX G. TEST PHOTOS	
PHOTOGRAPHS OF EUT V01	

History of this test report

[illegible]

Summary of Test Result

Report Clause	Ref. Std. Clause	Test Items	Result (PASS/FAIL)	Remark
1.1.2	15.203	Antenna Requirement	PASS	-
3.1	15.207	AC Power-line Conducted Emissions	PASS	-
3.2	15.407(a)	Emission Bandwidth	PASS	-
3.3	15.407(a)	Maximum Conducted Output Power	PASS	-
3.4	15.407(a)	Peak Power Spectral Density	PASS	-
3.5	15.407(b)	Unwanted Emissions	PASS	-

Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

Comments and explanations:

The EUT supports beamforming and CDD modes, and the CDD mode is the worst case. Therefore, all test items are evaluated in the report. The beamforming mode only evaluates the output power.

Reviewed by: Barry Hsiao

Report Producer: Jenny Yang

1 General Description

1.1 Information

1.1.1 RF General Information

Frequency Range (MHz)	IEEE Std. 802.11	Ch. Frequency (MHz)	Channel Number
5150-5250	a, n (HT20), ac (VHT20), ax (HEW20)	5180-5240	36-48 [4]
5725-5850		5745-5825	149-165 [5]
5150-5250	n (HT40), ac (VHT40), ax (HEW40)	5190-5230	38-46 [2]
5725-5850		5755-5795	151-159 [2]
5150-5250	ac (VHT80), ax (HEW80)	5210	42 [1]
5725-5850		5775	155 [1]

Non-Beamforming

Band	Mode	BWch (MHz)	Nant
5.15-5.25GHz	802.11a	20	2TX
5.725-5.85GHz	802.11a	20	2TX
5.15-5.25GHz	802.11n HT20	20	2TX
5.725-5.85GHz	802.11n HT20	20	2TX
5.15-5.25GHz	802.11n HT40	40	2TX
5.725-5.85GHz	802.11n HT40	40	2TX
5.15-5.25GHz	802.11ac VHT20	20	2TX
5.725-5.85GHz	802.11ac VHT20	20	2TX
5.15-5.25GHz	802.11ac VHT40	40	2TX
5.725-5.85GHz	802.11ac VHT40	40	2TX
5.15-5.25GHz	802.11ac VHT80	80	2TX
5.725-5.85GHz	802.11ac VHT80	80	2TX
5.15-5.25GHz	802.11ax HEW20	20	2TX
5.725-5.85GHz	802.11ax HEW20	20	2TX
5.15-5.25GHz	802.11ax HEW40	40	2TX
5.725-5.85GHz	802.11ax HEW40	40	2TX
5.15-5.25GHz	802.11ax HEW80	80	2TX
5.725-5.85GHz	802.11ax HEW80	80	2TX

Beamforming

Band	Mode	BWch (MHz)	Nant
5.15-5.25GHz	802.11ax HEW20-BF	20	2TX
5.725-5.85GHz	802.11ax HEW20-BF	20	2TX
5.15-5.25GHz	802.11ax HEW40-BF	40	2TX
5.725-5.85GHz	802.11ax HEW40-BF	40	2TX
5.15-5.25GHz	802.11ax HEW80-BF	80	2TX
5.725-5.85GHz	802.11ax HEW80-BF	80	2TX

Note:

- ♦ 11a, HT20 and HT40 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM modulation.
- ♦ VHT20, VHT40, VHT80 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM, 256QAM modulation.
- ♦ HEW20, HEW40, HEW80 use a combination of OFDMA-BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM modulation.
- ♦ BWch is the nominal channel bandwidth.

1.1.2 Antenna Information

Ant.	Brand	Model Name	Antenna Type	Connector	Support
1	SENAO	5718A0675300	PIFA	I-Pex	2.4G+5G
2	SENAO	5718A0677300	PIFA	I-Pex	2.4G+5G
3	SENAO	5718A0678300	PIFA	I-Pex	2.4G+5G+6G
4	SENAO	5718A0676300	PIFA	I-Pex	2.4G+5G+6G
5	SENAO	5718A0679300	PIFA	I-Pex	BT & Zigbee

Ant.	Port	Gain (dBi)				Remark	
		2.4G	5G	6G	BT & Zigbee		
1	1	4.5	5.3	-	-	Radio 1 2.4G 2*2 & Radio2 5G 2*2	Radio 2 5G Low Band+ Radio 3 5G High Band 2*2
2	2	4.3	5.3	-	-		
3	1	4.3	5.2	5.3	-	Radio 3 2.4G/5G/6G 2*2	
4	2	4.4	5.3	5.2	-		
5	1	-	-	-	5.1	-	

Note 1: The EUT has five antennas.

For 2.4GHz function:

For IEEE 802.11 b/g/n/VHT/ax mode (2TX/2RX)

Ant. 1 (port 1) and Ant. 2 (port 2) could transmit/receive simultaneously.

Ant. 3 (port 1) and Ant. 4 (port 2) could transmit/receive simultaneously.

For BT function:

For IEEE 802.15.1 Bluetooth mode (1TX/1RX)

Only Ant.5 (port 1) can be used as transmitting/receiving.

For 5GHz function:

For IEEE 802.11 a/n/ac/ax mode (2TX/2RX)

Ant. 1 (port 1) and Ant. 2 (port 2) could transmit/receive simultaneously.

Ant. 3 (port 1) and Ant. 4 (port 2) could transmit/receive simultaneously.

For 6GHz function:

For IEEE 802.11 a/n/ac/ax mode (2TX/2RX)

Ant. 3 (port 1) and Ant. 4 (port 2) could transmit/receive simultaneously.

Note 2: Directional gain information

	Maximum Output Power	Power Spectral Density
Non-BF	Directional gain = Max.gain + array gain. For power measurements on IEEE 802.11 devices Array Gain = 0 dB (i.e., no array gain) for $N_{ANT} \leq 4$	$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{BS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$
BF	$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{BS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$	$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{BS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$

1.1.3 EUT Information

Operational Condition			
EUT Power Type	From AC Adapter / PoE		
EUT Function	☐	Outdoor AP	☒ Indoor AP
	☐	Fixed P2P AP	☐ Client
Beamforming Function	☒	With beamforming	☐ Without beamforming
Resource Unit(802.11ax)	☒	Full RU	☐ Partial RU
Type of EUT			
☒	Stand-alone		
☐	Combined (EUT where the radio part is fully integrated within another device)		
☐	Combined Equipment - Brand Name / Model No.: ...		
☐	Plug-in radio (EUT intended for a variety of host systems)		
☐	Host System - Brand Name / Model No.:		
☐	Other:		

1.1.4 Mode Test Duty Cycle

Non-Beamforming_Radio2

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq$ 1/T
802.11a_Nss1,(6Mbps)_2TX	0.939	0.27	1.977m	1k
802.11n HT20_Nss1,(MCS0)_2TX	0.941	0.26	5.428m	300
802.11n HT40_Nss1,(MCS0)_2TX	0.841	0.75	5.428m	300
802.11ac VHT20_Nss1,(MCS0)_2TX	0.944	0.25	5.428m	300
802.11ac VHT40_Nss1,(MCS0)_2TX	0.841	0.75	5.428m	300
802.11ac VHT80_Nss1,(MCS0)_2TX	0.903	0.44	5.429m	300
802.11ax HEW20_Nss1,(MCS0)_2TX	0.947	0.24	5.445m	300
802.11ax HEW40_Nss1,(MCS0)_2TX	0.936	0.29	5.445m	300
802.11ax HEW80_Nss1,(MCS0)_2TX	0.942	0.26	5.446m	300

Non-Beamforming_Radio2(Low Band)+Radio3(High Band)

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq$ 1/T
802.11a_Nss1,(6Mbps)_2TX	0.945	0.25	1.977m	1k
802.11n HT20_Nss1,(MCS0)_2TX	0.953	0.21	5.429m	300
802.11n HT40_Nss1,(MCS0)_2TX	0.901	0.45	5.429m	300
802.11ac VHT20_Nss1,(MCS0)_2TX	0.954	0.2	5.429m	300
802.11ac VHT40_Nss1,(MCS0)_2TX	0.917	0.38	5.429m	300
802.11ac VHT80_Nss1,(MCS0)_2TX	0.908	0.42	5.429m	300
802.11ax HEW20_Nss1,(MCS0)_2TX	0.944	0.25	5.446m	300
802.11ax HEW40_Nss1,(MCS0)_2TX	0.938	0.28	5.452m	300
802.11ax HEW80_Nss1,(MCS0)_2TX	0.941	0.26	5.452m	300

Non-Beamforming_Radio3

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq$ 1/T
802.11a_Nss1,(6Mbps)_2TX	0.949	0.23	1.977m	1k
802.11n HT20_Nss1,(MCS0)_2TX	0.886	0.53	5.429m	300
802.11n HT40_Nss1,(MCS0)_2TX	0.923	0.35	5.429m	300
802.11ac VHT20_Nss1,(MCS0)_2TX	0.84	0.76	5.429m	300
802.11ac VHT40_Nss1,(MCS0)_2TX	0.888	0.52	5.429m	300
802.11ac VHT80_Nss1,(MCS0)_2TX	0.915	0.39	5.429m	300
802.11ax HEW20_Nss1,(MCS0)_2TX	0.944	0.25	5.446m	300
802.11ax HEW40_Nss1,(MCS0)_2TX	0.938	0.28	5.452m	300
802.11ax HEW80_Nss1,(MCS0)_2TX	0.941	0.26	5.452m	300

Beamforming_Radio2

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq$ 1/T
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	0.947	0.24	5.445m	300
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	0.936	0.29	5.445m	300
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	0.942	0.26	5.446m	300

Beamforming_Radio2(Low Band)+Radio3(High Band)

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq$ 1/T
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	0.944	0.25	5.446m	300
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	0.938	0.28	5.452m	300
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	0.941	0.26	5.452m	300

Beamforming_Radio3

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq$ 1/T
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	0.944	0.25	5.446m	300
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	0.938	0.28	5.452m	300
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	0.941	0.26	5.452m	300

Note. If DC < 0.98, the DCF was added while measuring Output power and PSD.

1.1.5 Table for Multiple Listing

The model names in the following table are all refer to the identical product.

Model Name	Description
FortiAP 231Gxxxxxx, FORTIAP-231Gxxxxxx, FAP-231Gxxxxxx, (where "x" can be used as "A-Z", or "0-9", or "-", or blank for software changes or marketing purposes only)	All the models are identical, the difference model served as marketing strategy.

1.2 Testing Applied Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- ♦ 47 CFR FCC Part 15
- ♦ ANSI C63.10-2013
- ♦ KDB 789033 D02 v02r01

The following reference test guidance is not within the scope of accreditation of TAF:

- ♦ KDB 662911 D01 v02r0
- ♦ KDB 414788 D01 v01r01

1.3 Testing Location Information

Test Lab. : Sporton International Inc. Hsinhua Laboratory				
☒ Hsinhua (TAF: 3785)	ADD: No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333411, Taiwan (R.O.C.)			
	TEL: 886-3-327-3456		FAX: 886-3-327-0973	
Test site Designation No. TW3785 with FCC.				
Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date
AC Conduction	CO04-HY	Bart Chen	23.4~24°C / 57~60%	04/Oct/2022
RF Conducted	TH01-HY	Johnny Yu	20.6~26.9°C / 50~60%	08/Aug/2022~15/Nov/2022
Radiated	03CH02-HY	Daniel Lin	22.4~26.1°C / 53~64%	10/Aug/2022~21/Sep/2022
Radiated for Co-location	03CH02-HY	Daniel Lin	21~24.4°C / 58~63%	18/Oct/2022~20/Oct/2022
☐ Wen 33rd.St. (TAF: 3785)	ADD: No.14-1, Ln. 19, Wen 33rd St., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.)			
	TEL: 886-3-318-0787		FAX: 886-3-318-0287	
Test site Designation No. TW0008 with FCC.				

1.4 Measurement Uncertainty

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2))

Test Items	Uncertainty	Remark
AC Power-line Conducted Emissions	4.53 dB	Confidence levels of 95%
Emission Bandwidth	3 MHz	Confidence levels of 95%
Maximum Conducted Output Power	2 dB	Confidence levels of 95%
Power Spectral Density	2 dB	Confidence levels of 95%
Unwanted Emissions	4.8 dB	Confidence levels of 95%
Receiver Radiated Unwanted Emissions	4.8 dB	Confidence levels of 95%
Temperature	0.41 °C	Confidence levels of 95%
Humidity	3.4 %	Confidence levels of 95%



2 Test Configuration of EUT

2.1 Test Channel Mode

Non-Beamforming_Radio2

Test Software Version	QDART-Connectivity1.0-00081
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Mode	Power Setting
802.11a_Nss1,(6Mbps)_2TX	-
5180MHz	21.5
5200MHz	23
5240MHz	23
5745MHz	23
5785MHz	23
5825MHz	23
802.11n HT20_Nss1,(MCS0)_2TX	-
5180MHz	21.5
5200MHz	23
5240MHz	23
5745MHz	23
5785MHz	23
5825MHz	23
802.11n HT40_Nss1,(MCS0)_2TX	-
5190MHz	20
5230MHz	23
5755MHz	23
5795MHz	23
802.11ac VHT20_Nss1,(MCS0)_2TX	-
5180MHz	21.5
5200MHz	23
5240MHz	23
5745MHz	23
5785MHz	23
5825MHz	23
802.11ac VHT40_Nss1,(MCS0)_2TX	-
5190MHz	20
5230MHz	23
5755MHz	23



Mode	Power Setting
5795MHz	23
802.11ac VHT80_Nss1,(MCS0)_2TX	-
5210MHz	21.5
5775MHz	22.5
802.11ax HEW20_Nss1,(MCS0)_2TX	-
5180MHz	21.5
5200MHz	23
5240MHz	23
5745MHz	23
5785MHz	23
5825MHz	23
802.11ax HEW40_Nss1,(MCS0)_2TX	-
5190MHz	20
5230MHz	23
5755MHz	23
5795MHz	23
802.11ax HEW80_Nss1,(MCS0)_2TX	-
5210MHz	21.5
5775MHz	22.5

**Non-Beamforming_Radio2(Low Band)+Radio3(High Band)**

Test Software Version	QDART-Connectivity1.0-00081
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Mode	Power Setting
802.11a_Nss1,(6Mbps)_2TX	-
5180MHz	22
5200MHz	23
5240MHz	23
5745MHz	23
5785MHz	22
5825MHz	23
802.11n HT20_Nss1,(MCS0)_2TX	-
5180MHz	22
5200MHz	23
5240MHz	23
5745MHz	23
5785MHz	23
5825MHz	23
802.11n HT40_Nss1,(MCS0)_2TX	-
5190MHz	20
5230MHz	23
5755MHz	23
5795MHz	23
802.11ac VHT20_Nss1,(MCS0)_2TX	-
5180MHz	22
5200MHz	23
5240MHz	23
5745MHz	23
5785MHz	23
5825MHz	23
802.11ac VHT40_Nss1,(MCS0)_2TX	-
5190MHz	20
5230MHz	23
5755MHz	23
5795MHz	23
802.11ac VHT80_Nss1,(MCS0)_2TX	-
5210MHz	17.5
5775MHz	20



Mode	Power Setting
802.11ax HEW20_Nss1,(MCS0)_2TX	-
5180MHz	22
5200MHz	23
5240MHz	23
5745MHz	23
5785MHz	23
5825MHz	23
802.11ax HEW40_Nss1,(MCS0)_2TX	-
5190MHz	20
5230MHz	23
5755MHz	23
5795MHz	23
802.11ax HEW80_Nss1,(MCS0)_2TX	-
5210MHz	17.5
5775MHz	20

**Non-Beamforming_Radio3**

Test Software Version	QDART-Connectivity1.0-00081
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Mode	Power Setting
802.11a_Nss1,(6Mbps)_2TX	-
5180MHz	18
5200MHz	18.5
5240MHz	18.5
5745MHz	23
5785MHz	23
5825MHz	23
802.11n HT20_Nss1,(MCS0)_2TX	-
5180MHz	18
5200MHz	19
5240MHz	18
5745MHz	23
5785MHz	23
5825MHz	23
802.11n HT40_Nss1,(MCS0)_2TX	-
5190MHz	17.5
5230MHz	21.5
5755MHz	23
5795MHz	23
802.11ac VHT20_Nss1,(MCS0)_2TX	-
5180MHz	18
5200MHz	19
5240MHz	18
5745MHz	23
5785MHz	23
5825MHz	23
802.11ac VHT40_Nss1,(MCS0)_2TX	-
5190MHz	17.5
5230MHz	21.5
5755MHz	23
5795MHz	23
802.11ac VHT80_Nss1,(MCS0)_2TX	-
5210MHz	17
5775MHz	20.5



Mode	Power Setting
802.11ax HEW20_Nss1,(MCS0)_2TX	-
5180MHz	18
5200MHz	19
5240MHz	18
5745MHz	23
5785MHz	23
5825MHz	23
802.11ax HEW40_Nss1,(MCS0)_2TX	-
5190MHz	17.5
5230MHz	21.5
5755MHz	23
5795MHz	23
802.11ax HEW80_Nss1,(MCS0)_2TX	-
5210MHz	17
5775MHz	20.5

**Beamforming_Radio2**

Test Software Version	DOS V6.1
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Mode	Power Setting
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	-
5180MHz	21.5
5200MHz	23
5240MHz	23
5745MHz	23
5785MHz	23
5825MHz	23
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-
5190MHz	20
5230MHz	23
5755MHz	23
5795MHz	23
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	-
5210MHz	21.5
5775MHz	22.5

**Beamforming_Radio2(Low Band)+Radio3(High Band)**

Test Software Version	DOS V6.1
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Mode	Power Setting
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	-
5180MHz	22
5200MHz	23
5240MHz	23
5745MHz	23
5785MHz	23
5825MHz	23
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-
5190MHz	20
5230MHz	23
5755MHz	23
5795MHz	23
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	-
5210MHz	17.5
5775MHz	20

**Beamforming_Radio3**

Test Software Version	DOS V6.1
------------------------------	----------

Mode	Power Setting
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	-
5180MHz	18
5200MHz	19
5240MHz	18
5745MHz	23
5785MHz	23
5825MHz	23
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-
5190MHz	17.5
5230MHz	21.5
5755MHz	23
5795MHz	23
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	-
5210MHz	17
5775MHz	20.5

2.2 The Worst Case Measurement Configuration

The Worst Case Mode for Following Conformance Tests	
Tests Item	AC power-line conducted emissions
Condition	AC power-line conducted measurement for line and neutral Test Voltage: 120Vac / 60Hz
Operating Mode	CTX
1	Adapter Mode

The Worst Case Mode for Following Conformance Tests	
Tests Item	Emission Bandwidth Maximum Conducted Output Power Peak Power Spectral Density
Test Condition	Conducted measurement at transmit chains

The Worst Case Mode for Following Conformance Tests			
Tests Item	Unwanted Emissions		
Test Condition	Radiated measurement If EUT consist of multiple antenna assembly (multiple antenna are used in EUT regardless of spatial multiplexing MIMO configuration), the radiated test should be performed with highest antenna gain of each antenna type.		
Operating Mode < 1GHz	CTX		
1	Adapter Mode		
Operating Mode > 1GHz	CTX		
Orthogonal Planes of EUT	X Plane	Y Plane	Z Plane
			
Worst Planes of EUT	V		

The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis
Test Condition	Radiated measurement
Operating Mode	Normal Link
1	Radio 1:2.4G + Radio 2:5G + Radio 3:2.4G + Bluetooth
2	Radio 1:2.4G + Radio 2:5G + Radio 3:5G + Bluetooth
3	Radio 1:2.4G + Radio 2:5G + Radio 3:6G + Bluetooth
4	Radio 1:2.4G + Radio 2:5G + Radio 3:2.4G + Zigbee
5	Radio 1:2.4G + Radio 2:5G + Radio 3:5G + Zigbee
6	Radio 1:2.4G + Radio 2:5G + Radio 3:6G + Zigbee
7	Radio 1:2.4G + (Radio 2:5G(Low Band) + Radio 3:5G(High Band)) + Bluetooth
8	Radio 1:2.4G + (Radio 2:5G(Low Band) + Radio 3:5G(High Band)) + Zigbee
Refer to Appendix F for Radiated Emission Co-location.	

The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis
Operating Mode	CTX
1	Radio 1:2.4G + Radio 2:5G + Radio 3:2.4G + Bluetooth
2	Radio 1:2.4G + Radio 2:5G + Radio 3:5G + Bluetooth
3	Radio 1:2.4G + Radio 2:5G + Radio 3:6G + Bluetooth
4	Radio 1:2.4G + Radio 2:5G + Radio 3:2.4G + Zigbee
5	Radio 1:2.4G + Radio 2:5G + Radio 3:5G + Zigbee
6	Radio 1:2.4G + Radio 2:5G + Radio 3:6G + Zigbee
7	Radio 1:2.4G + (Radio 2:5G(Low Band) + Radio 3:5G(High Band)) + Bluetooth
8	Radio 1:2.4G + (Radio 2:5G(Low Band) + Radio 3:5G(High Band)) + Zigbee
Refer to Sporton Test Report No.: FA262434 for Co-location RF Exposure Evaluation.	

2.3 Accessories

Accessories				
Bracket ceiling mount 1	Brand Name	DRAGONJET CORPORATION	Model Name	CLIP CEILING 9/16 LFP
Bracket ceiling mount 2	Brand Name	DRAGONJET CORPORATION	Model Name	CLIP CEILING 15/16 LFP

Reminder: Regarding to more detail and other information, please refer to user manual.

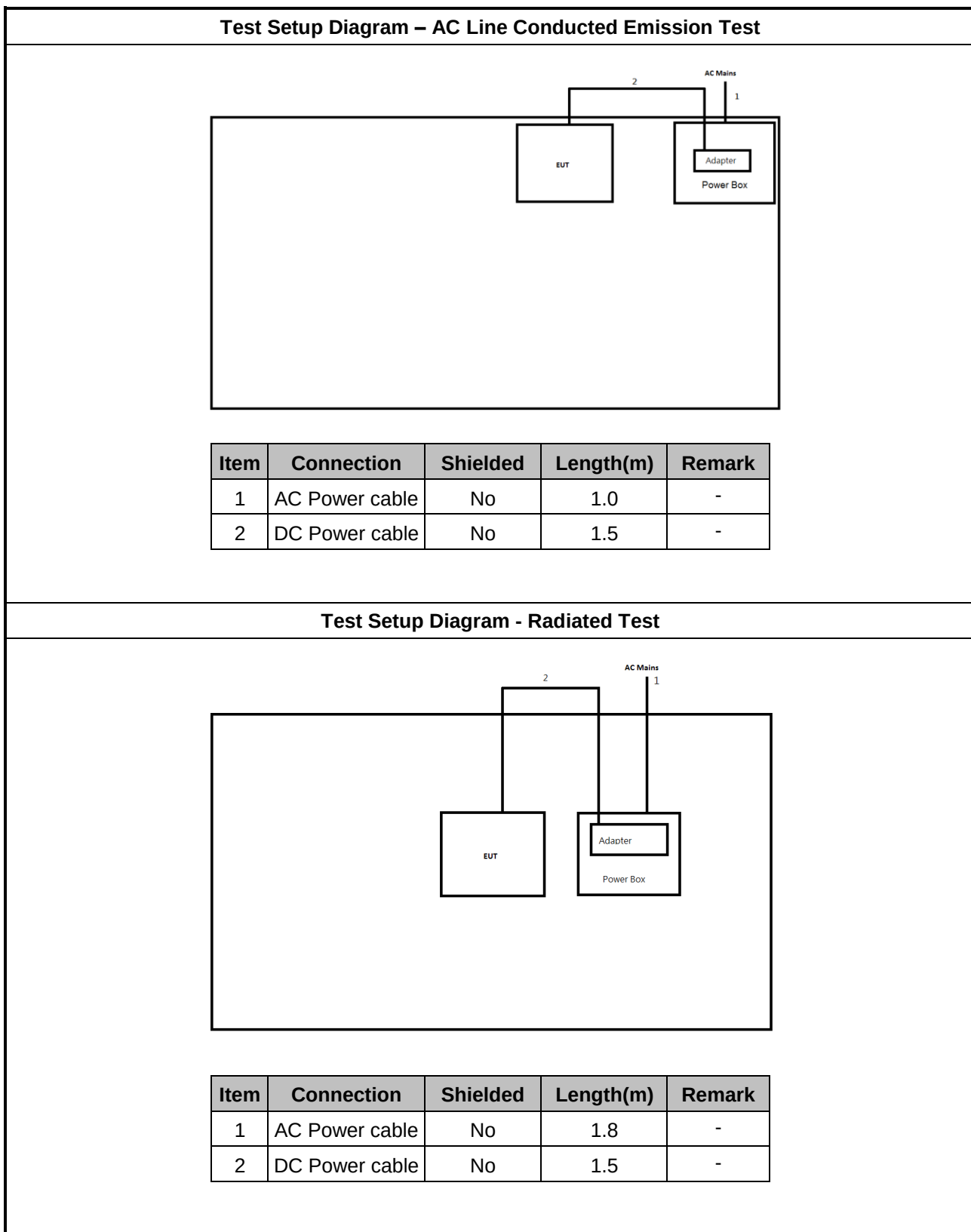
2.4 Support Equipment

Support Equipment – AC Conduction					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	AC Power cable	Power sync	PW-GPC180-3	-	-
2	AC Adapter	ASIAN POWER DEVICES INC.	WA-48A12R	-	Provided by Customer

Support Equipment – Conducted					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	Notebook	DELL	E5410	-	-
2	Adapter for NB	DELL	HA65NM130	-	-
3	AC Adapter	ASIAN POWER DEVICES INC.	WA-48A12R	-	Provided by Customer
4	PoE Adapter	SENAO	EPA5006GPR	-	Provided by Customer
5	Client For BF	Fortinet	FAP-231G	-	Provided by Customer

Support Equipment – Radiated					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	AC Power cable	Power sync	PW-GPC180-3	-	-
2	AC Adapter	ASIAN POWER DEVICES INC.	WA-48A12R	-	Provided by Customer

2.5 Test Setup Diagram



3 Transmitter Test Result

3.1 AC Power-line Conducted Emissions

3.1.1 AC Power-line Conducted Emissions Limit

AC Power-line Conducted Emissions Limit		
Frequency Emission (MHz)	Quasi-Peak	Average
0.15-0.5	66 - 56 *	56 - 46 *
0.5-5	56	46
5-30	60	50

Note 1: * Decreases with the logarithm of the frequency.

3.1.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

3.1.3 Test Procedures

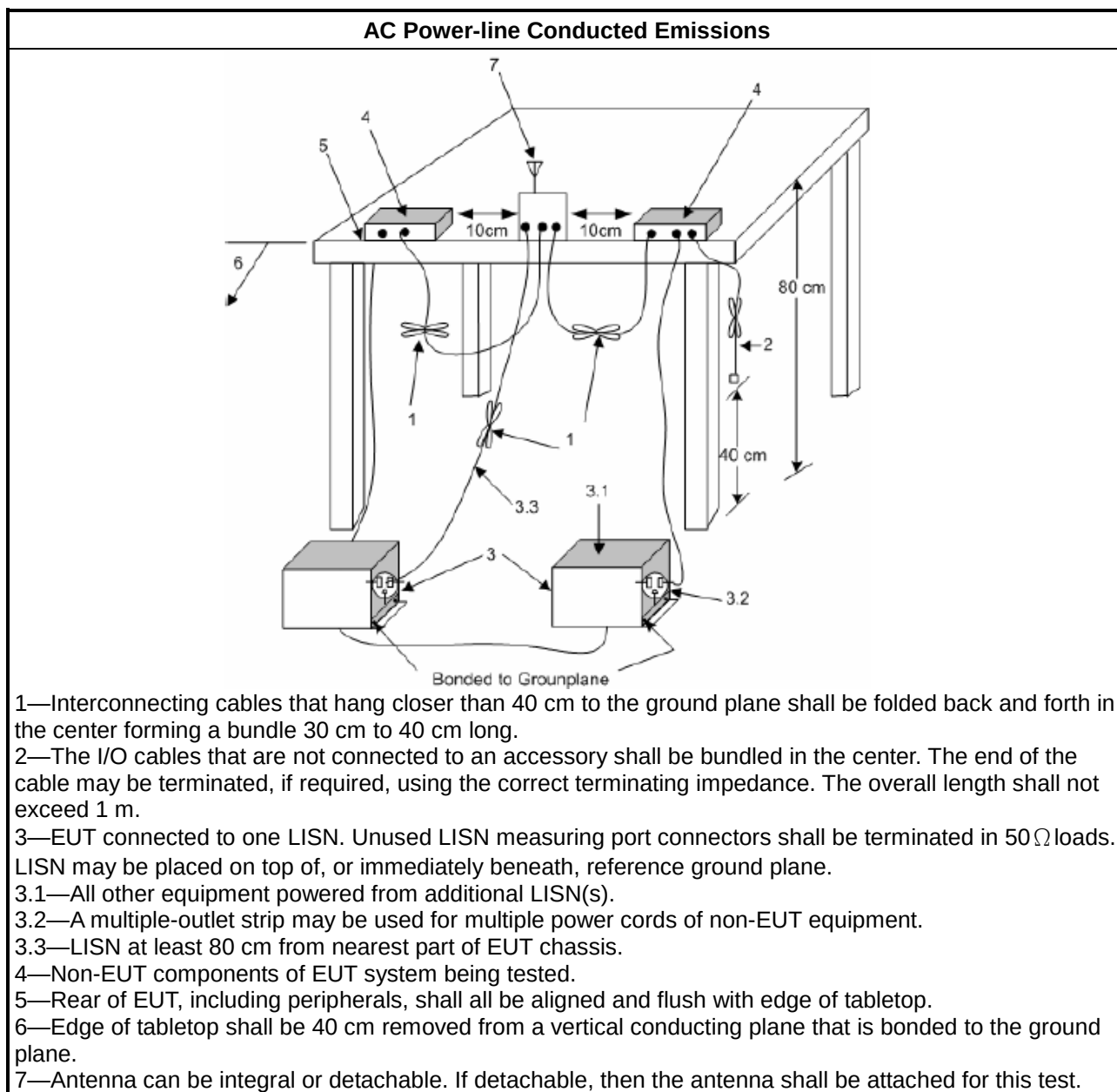
Test Method
☒ Refer as ANSI C63.10-2013, clause 6.2 for AC power-line conducted emissions.

3.1.4 Measurement Results Calculation

The measured Level is calculated using:

Corrected Reading: Raw(Read Level) + LISN(LISN Factor) + CL(Cable Loss) + AT(Attenuator).

3.1.5 Test Setup



3.1.6 Test Result of AC Power-line Conducted Emissions

Refer as Appendix A

3.2 Emission Bandwidth

3.2.1 Emission Bandwidth Limit

Emission Bandwidth Limit	
UNII Devices	
☒	For the 5.15-5.25 GHz band, N/A
☐	For the 5.25-5.35 GHz band, N/A
☐	For the 5.47-5.725 GHz band, N/A
☒	For the 5.725-5.85 GHz band, 6 dB emission bandwidth $\geq$ 500kHz.

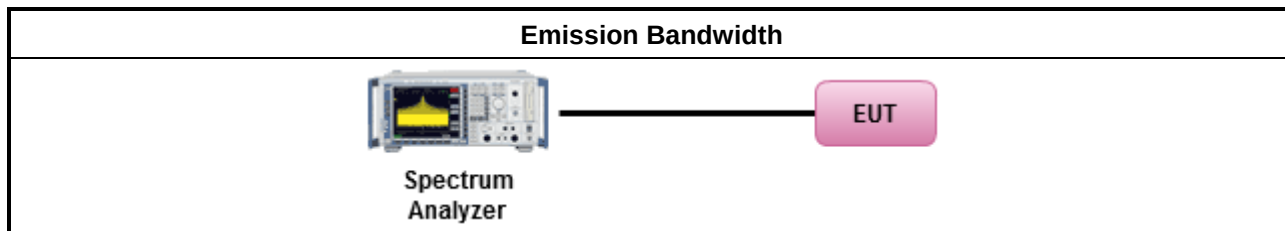
3.2.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

3.2.3 Test Procedures

Test Method	
For the emission bandwidth shall be measured using one of the options below:	
☒	Refer as KDB 789033, clause C for EBW and clause D for OBW measurement.
☐	Refer as ANSI C63.10, clause 6.9.3 for occupied bandwidth testing.
☐	Refer as IC RSS-Gen, clause 6.7 for bandwidth testing.

3.2.4 Test Setup



3.2.5 Test Result of Emission Bandwidth

Refer as Appendix B

3.3 Maximum Conducted Output Power

3.3.1 Maximum Conducted Output Power Limit

Maximum Conducted Output Power Limit	
UNII Devices	
☒ For the 5.15-5.25 GHz band:	
☐	- Outdoor AP: the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W. If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)$. e.i.r.p. at any elevation angle above 30 degrees ≤ 125mW [21dBm] - Indoor AP: the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W. If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)$ - Point-to-point AP: the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W. If $G_{TX} > 23$ dBi, then $P_{Out} = 30 - (G_{TX} - 23)$. - Mobile or Portable Client: the maximum conducted output power (P_{Out}) shall not exceed the lesser of 250 mW. If $G_{TX} > 6$ dBi, then $P_{Out} = 24 - (G_{TX} - 6)$.
☐	For the 5.25-5.35 GHz band, the maximum conducted output power (P_{Out}) shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in MHz. If $G_{TX} > 6$ dBi, then $P_{Out} = 24 - (G_{TX} - 6)$.
☐	For the 5.47-5.725 GHz band, the maximum conducted output power (P_{Out}) shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in MHz. If $G_{TX} > 6$ dBi, then $P_{Out} = 24 - (G_{TX} - 6)$.
☒ For the 5.725-5.85 GHz band:	
☐	- Point-to-multipoint systems (P2M): the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W. If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)$. - Point-to-point systems (P2P): the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W.
P_{Out} = maximum conducted output power in dBm, G_{TX} = the maximum transmitting antenna directional gain in dBi.	

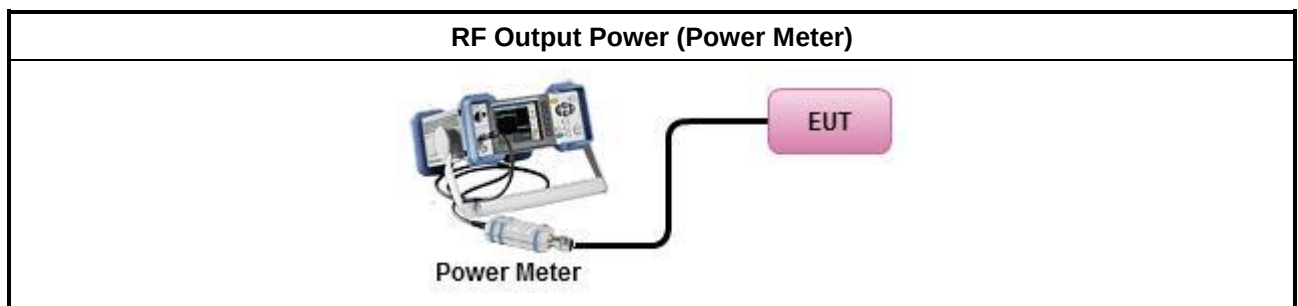
3.3.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

3.3.3 Test Procedures

Test Method	
Maximum Conducted Output Power	
	Duty cycle $\geq 98\%$
☐	Refer as KDB 789033, clause E Method SA-2 (spectral trace averaging).
	Duty cycle $< 98\%$
☐	Refer as KDB 789033, clause E Method SA-2 Alt. (RMS detection with slow sweep speed)
	Wideband RF power meter and average over on/off periods with duty factor
☒	Refer as KDB 789033, clause E Method PM (using an RF average power meter).
For conducted measurement.	
	If the EUT supports multiple transmit chains using options given below: Refer as KDB 662911, In-band power measurements. Using the measure-and-sum approach, measured all transmit ports individually. Sum the power (in linear power units e.g., mW) of all ports for each individual sample and save them.
	If multiple transmit chains, EIRP calculation could be following as methods: $P_{total} = P_1 + P_2 + \dots + P_n$ (calculated in linear unit [mW] and transfer to log unit [dBm]) $EIRP_{total} = P_{total} + DG$

3.3.4 Test Setup



3.3.5 Test Result of Maximum Conducted Output Power

Refer as Appendix C

3.4 Peak Power Spectral Density

3.4.1 Peak Power Spectral Density Limit

Peak Power Spectral Density Limit	
UNII Devices	
☒ For the 5.15-5.25 GHz band:	
	Outdoor AP: the peak power spectral density (PPSD) shall not exceed the lesser of 17dBm/MHz. If $G_{TX} > 6$ dBi, then $P_{Out} = 17 - (G_{TX} - 6)$.
	Indoor AP: the peak power spectral density (PPSD) shall not exceed the lesser of 17dBm/MHz. If $G_{TX} > 6$ dBi, then $P_{Out} = 17 - (G_{TX} - 6)$.
	Point-to-point AP: the peak power spectral density (PPSD) shall not exceed the lesser of 17dBm/MHz. If $G_{TX} > 23$ dBi, then $P_{Out} = 17 - (G_{TX} - 23)$.
	Mobile or Portable Client: the peak power spectral density (PPSD) ≤ 11 dBm/MHz. If $G_{TX} > 6$ dBi, then $PPSD = 11 - (G_{TX} - 6)$.
☐ For the 5.25-5.35 GHz band, the peak power spectral density (PPSD) ≤ 11 dBm/MHz. If $G_{TX} > 6$ dBi, then $PPSD = 11 - (G_{TX} - 6)$.	
☐ For the 5.47-5.725 GHz band, the peak power spectral density (PPSD) ≤ 11 dBm/MHz. If $G_{TX} > 6$ dBi, then $PPSD = 11 - (G_{TX} - 6)$.	
☒ For the 5.725-5.85 GHz band:	
	Point-to-multipoint systems (P2M): the peak power spectral density (PPSD) ≤ 30 dBm/500kHz. If $G_{TX} > 6$ dBi, then $PPSD = 30 - (G_{TX} - 6)$.
	Point-to-point systems (P2P): the peak power spectral density (PPSD) ≤ 30 dBm/500kHz.
PPSD = peak power spectral density that he same method as used to determine the conducted output power shall be used to determine the power spectral density. And power spectral density in dBm/MHz G_{TX} = the maximum transmitting antenna directional gain in dBi.	

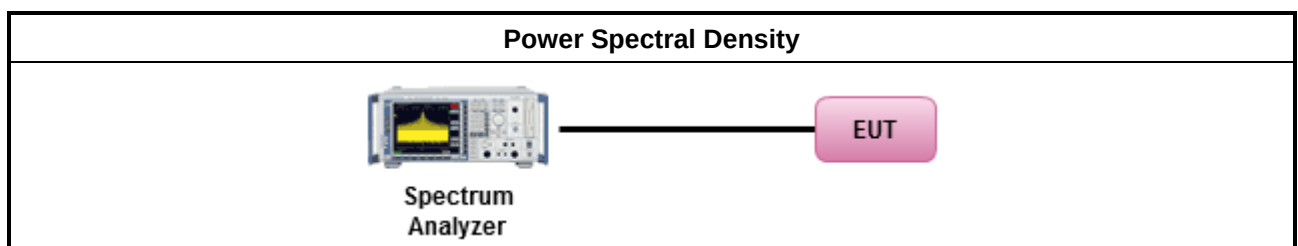
3.4.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

3.4.3 Test Procedures

Test Method	
Peak power spectral density procedures that the same method as used to determine the conducted output power shall be used to determine the peak power spectral density and use the peak search function on the spectrum analyzer to find the peak of the spectrum. For the peak power spectral density shall be measured using below options:	
☐ Refer as KDB 789033, F)5) power spectral density can be measured using resolution bandwidths < 1 MHz provided that the results are integrated over 1 MHz bandwidth	Duty cycle ≥ 98%
☐ Refer as KDB 789033, clause E Method SA-2 (spectral trace averaging).	Duty cycle < 98%
☒ Refer as KDB 789033, clause E Method SA-2 Alt. (RMS detection with slow sweep speed)	
For conducted measurement.	
If the EUT supports multiple transmit chains using options given below:	
Measure and sum the spectra across the outputs. Refer as KDB 662911, In-band power spectral density (PSD). Sample all transmit ports simultaneously using a spectrum analyzer for each transmit port. Where the trace bin-by-bin of each transmit port summing can be performed. (i.e., in the first spectral bin of output 1 is summed with that in the first spectral bin of output 2 and that from the first spectral bin of output 3, and so on up to the NTX output to obtain the value for the first frequency bin of the summed spectrum.). Add up the amplitude (power) values for the different transmit chains and use this as the new data trace.	
If multiple transmit chains, EIRP PPSD calculation could be following as methods: $PPSD_{total} = PPSD_1 + PPSD_2 + \dots + PPSD_n$ (calculated in linear unit [mW] and transfer to log unit [dBm]) $EIRP_{total} = PPSD_{total} + DG$	

3.4.4 Test Setup



3.4.5 Test Result of Peak Power Spectral Density

Refer as Appendix D

3.5 Unwanted Emissions

3.5.1 Transmitter Radiated Unwanted Emissions Limit

Unwanted emissions below 1 GHz and restricted band emissions above 1GHz limit			
Frequency Range (MHz)	Field Strength (uV/m)	Field Strength (dBuV/m)	Measure Distance (m)
0.009~0.490	2400/F(kHz)	48.5 - 13.8	300
0.490~1.705	24000/F(kHz)	33.8 - 23	30
1.705~30.0	30	29	30
30~88	100	40	3
88~216	150	43.5	3
216~960	200	46	3
Above 960	500	54	3

Note 1: Test distance for frequencies at or above 30 MHz, measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements).

Note 2: Test distance for frequencies at below 30 MHz, measurements may be performed at a distance closer than the EUT limit distance; however, an attempt should be made to avoid making measurements in the near field. When performing measurements below 30 MHz at a closer distance than the limit distance, the results shall be extrapolated to the specified distance by either making measurements at a minimum of two or more distances on at least one radial to determine the proper extrapolation factor or by using the square of an inverse linear distance extrapolation factor (40 dB/decade). The test report shall specify the extrapolation method used to determine compliance of the EUT.

Note 3: Using the distance of 1m during the test for above 18 GHz, and the test value to correct for the distance factor at 3m.

Un-restricted band emissions above 1GHz Limit	
Operating Band	Limit
5.15 - 5.25 GHz	e.i.r.p. -27 dBm [68.2 dBuV/m@3m]
5.25 - 5.35 GHz	e.i.r.p. -27 dBm [68.2 dBuV/m@3m]
5.47 - 5.725 GHz	e.i.r.p. -27 dBm [68.2 dBuV/m@3m]
5.725 - 5.85 GHz	5.650-5700 GHz: e.i.r.p. -27 ~ 10 dBm [68.2 ~ 105.2 dBuV/m@3m] 5.700-5720 GHz: e.i.r.p. 10 ~ 15.6 dBm [105.2 ~ 110.8 dBuV/m@3m] 5.720-5725 GHz: e.i.r.p. 15.6 ~ 27 dBm [110.8 ~ 122.2 dBuV/m@3m] 5.850-5.855 GHz: e.i.r.p. 27 ~ 15.6 dBm [122.2 ~ 110.8 dBuV/m@3m] 5.855-5.875 GHz: e.i.r.p. 15.6 ~ 10 dBm [110.8 ~ 105.2 dBuV/m@3m] 5.875-5.925 GHz: e.i.r.p. 10 ~ -27 dBm [105.2 ~ 68.2dBuV/m@3m] Other un-restricted band: e.i.r.p. -27 dBm [68.2 dBuV/m@3m]

Note 1: Measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements).

3.5.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

3.5.3 Test Procedures

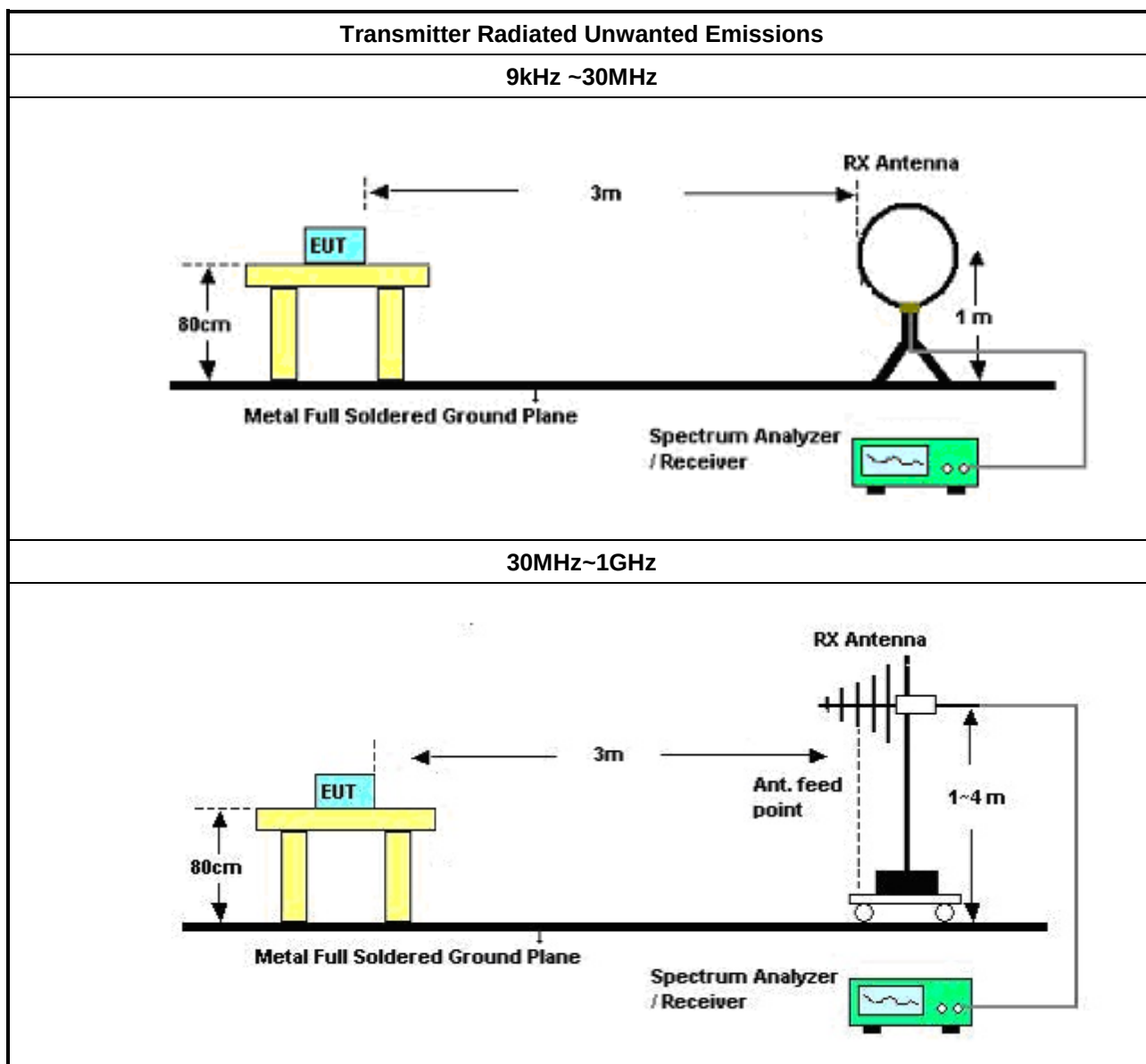
Test Method	
Measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. Measurements shall not be performed at a distance greater than 30 m for frequencies above 30 MHz, unless it can be further demonstrated that measurements at a distance of 30 m or less are impractical. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements).	
The average emission levels shall be measured in [duty cycle $\geq$ 98 or duty factor].	
For the transmitter unwanted emissions shall be measured using following options below:	
	Refer as KDB 789033, clause G)2) for unwanted emissions into non-restricted bands.
	Refer as KDB 789033, clause G)1) for unwanted emissions into restricted bands.
	☒ Refer as KDB 789033, G)6) Method VB (ANSI C63.10, clause 4.1.4.2.3), Reduced VBW.
	☒ Refer as KDB 789033, clause G)5) (ANSI C63.10, clause 4.1.4.2.2), measurement procedure peak limit.
For radiated measurement.	
	Refer as ANSI C63.10, clause 6.4 for radiated emissions below 30 MHz and test distance is 3m.
	Refer as ANSI C63.10, clause 6.5 for radiated emissions 30 MHz to 1 GHz and test distance is 3m.
	Refer as ANSI C63.10, clause 6.6 for radiated emissions above 1GHz.
The any unwanted emissions level shall not exceed the fundamental emission level.	
All amplitude of spurious emissions that are attenuated by more than 20 dB below the permissible value has no need to be reported.	
Use the following spectrum analyzer settings:	
	Set RBW=100 kHz for $f < 1$ GHz; VBW=3 * RBW; Sweep = auto; Detector function = peak; Trace = max hold.
	Set RBW = 1 MHz, VBW= 3MHz for $f \geq 1$ GHz for peak measurement. For average measurement, refer as 1.1.4.
KDB 414788 Open-Field Test Sites and Chamber Correlation Justification.	
	Based on FCC 15.31(f)(2): measurements may be performed at a distance closer than that specified in regulations; however, an attempt should be made to avoid making measurements in the near field.
	Open-field site and chamber correlation testing had been performed and chamber measured test result is the worst case test result.

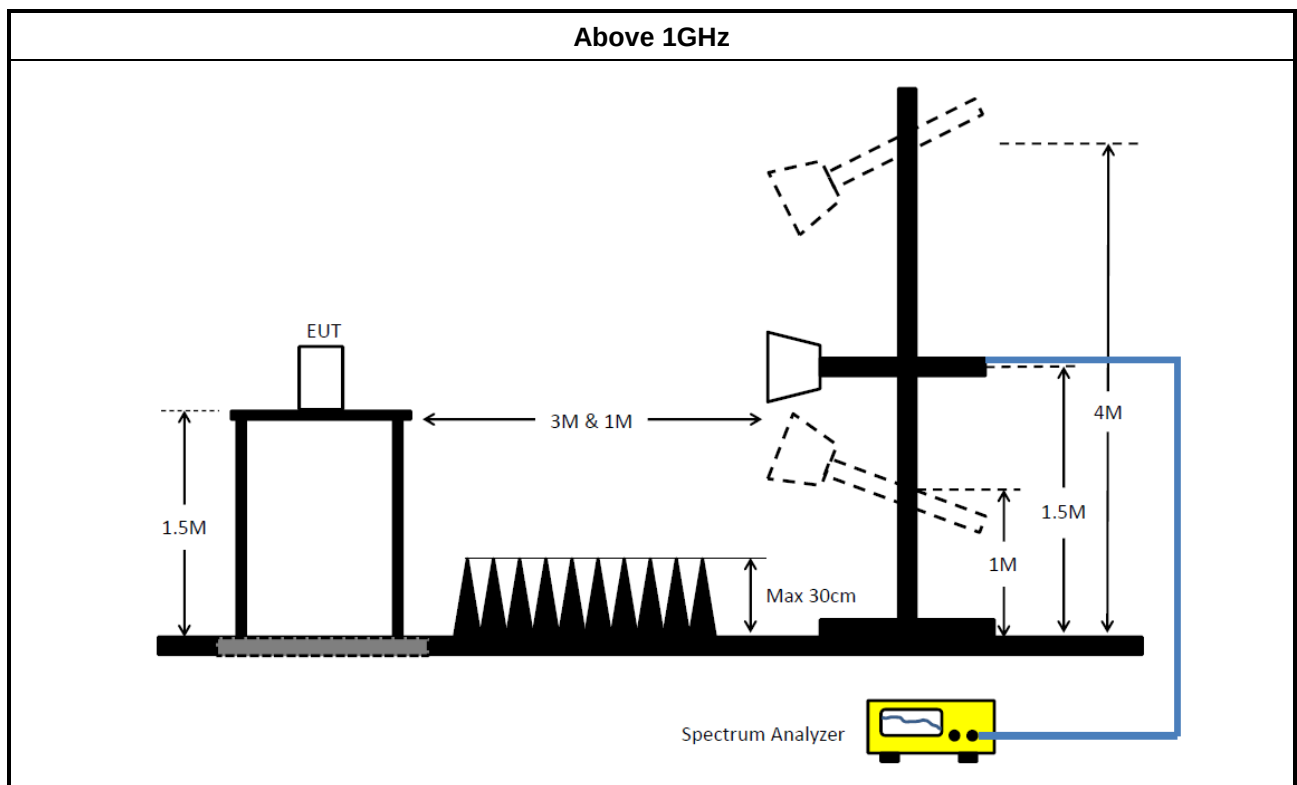
3.5.4 Measurement Results Calculation

The measured Level is calculated using:

Corrected Reading: Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamplifier Factor)

3.5.5 Test Setup





3.5.6 Transmitter Unwanted Emissions (Below 30MHz)

The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

3.5.7 Test Result of Transmitter Unwanted Emissions

Refer as Appendix E

4 Test Equipment and Calibration Data

Instrument for AC Conduction

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
EMI Test Receiver	R&S	ESR3	102051	9kHz ~ 3.6GHz	13/May/2022	12/May/2023
Two-Line V-Network	R&S	ENV 216	100003	9kHz ~ 30MHz	18/Feb/2022	17/Feb/2023
RF Cable 5m	TITAN	TITAN	CO04-cable-01	9 kHz~200MHz	01/Mar/2022	28/Feb/2023
Impuls Begrenzer Pulse Limiter	SCHWARZBECK	VTSD 9561-F	9561-F041	9kHz ~ 30MHz	26/Oct/2021	25/Oct/2022
Software	Sporton	SENSE-EMI	V5.10.8.7	-	NCR	NCR

NCR: No Calibration Required

Instrument for Conducted Test

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
Signal Analyzer	R&S	FSV 40	101013	10Hz~40GHz	01/Apr/2022	31/Mar/2023
SMR 40 Signal Generator	R&S	SMR 40	100116	10 MHz ~10GHz	11/Jan/2022	10/Jan/2023
Pulse Sensor	Anritsu	MA2411B	0917017	300MHz~40GHz	21/Feb/2022	20/Feb/2023
Power Meter	Anritsu	ML2495A	0949003	300MHz~40GHz	21/Feb/2022	20/Feb/2023
SENSE-15407_NII	Sporton	V5.10.8.3	N/A	N/A	N/A	N/A

**Instrument for Radiated Test**

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH02-HY	30MHz~1GHz 3m	31/Jul/2022	30/Jul/2023
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH02-HY	1GHz~18GHz 3m	30/Jul/2022	29/Jul/2023
Signal Analyzer	R&S	FSP40	100593	9kHz~40GHz	08/Apr/2022	07/Apr/2023
Amplifier	Agilent	8447D	2944A11149	100kHz~1.3GHz	28/Jun/2022	27/Jun/2023
Microwave Preamplifier	Agilent	8449B	3008A02373	1GHz~26.5GHz	03/Nov/2021	02/Nov/2022
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	02268	1GHz ~18GHz	14/Sep/2021	13/Sep/2022
Bilog Antenna & 5dB Attenuator	SCHAFFNER / MTJ	CBL 6112B / MTJ6102-05	2723 / 2	30MHz~1GHz	28/Aug/2022	27/Aug/2023
RF Cable	MVE	400LL	MVE-1-0802	9kHz~30MHz	04/May/2022	03/May/2023
RF Cable	MVE	400LL	MVE-1-0802	30MHz~1GHz	04/May/2022	03/May/2023
RF Cable-R03m	HUBER+ SUHNER	SUCOFLEX104	805193/4+805192/4	1GHz~40GHz	01/Apr/2022	31/Mar/2023
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA 9170221	15GHz~40GHz	18/Mar/2022	17/Mar/2023
Microwave Premplifier	EMC INSTRUMENTS	EM18G40G	060604	18GHz~40GHz	08/Mar/2022	07/Mar/2023
Loop Antenna	TESEQ	HLA 6120	31244	9kHz~30MHz	18/Mar/2022	17/Mar/2023
EMI Test Receiver	R&S	ESR3	102052	9kHz~3.6GHz	13/May/2022	12/May/2023
SENSE-15407_NII	Sporton	V5.10.8.5	N/A	N/A	N/A	N/A

Instrument for Radiated for Co-location Test

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH02-HY	1GHz~18GHz 3m	30/Jul/2022	29/Jul/2023
Signal Analyzer	R&S	FSP40	100593	9kHz~40GHz	08/Apr/2022	07/Apr/2023
Microwave System Premplifier	KEYSIGHT	83017A	MY53270197	1GHz~26.5GHz	30/Nov/2021	29/Nov/2022
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	02268	1GHz ~18GHz	27/Sep/2022	26/Sep/2023
RF Cable-R03m	HUBER+ SUHNER	SUCOFLEX104	805193/4+805192/4	1GHz~40GHz	01/Apr/2022	31/Mar/2023
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA 9170221	15GHz~40GHz	18/Mar/2022	17/Mar/2023
Microwave Premplifier	EMC INSTRUMENTS	EM18G40G	060604	18GHz~40GHz	08/Mar/2022	07/Mar/2023
SENSE-EMI	Sporton	V5.10.8.3	N/A	N/A	N/A	N/A



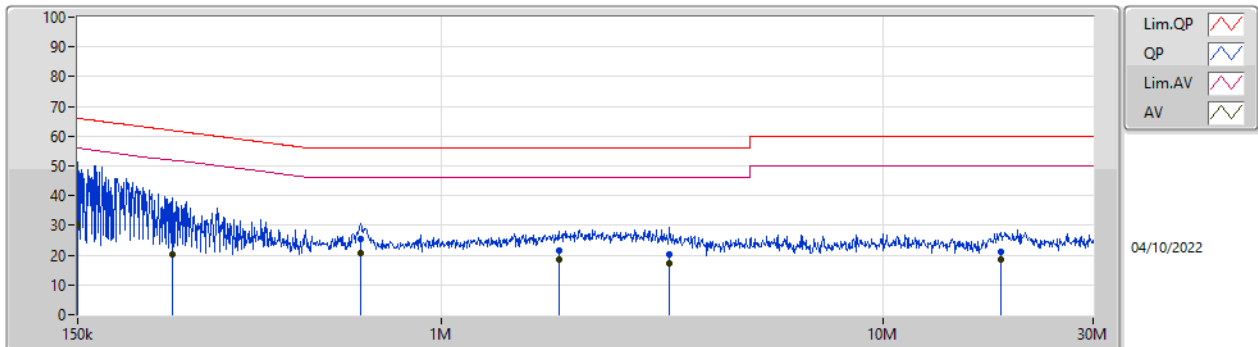
Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	QP	150k	46.79	66.00	-19.21	Line

Result

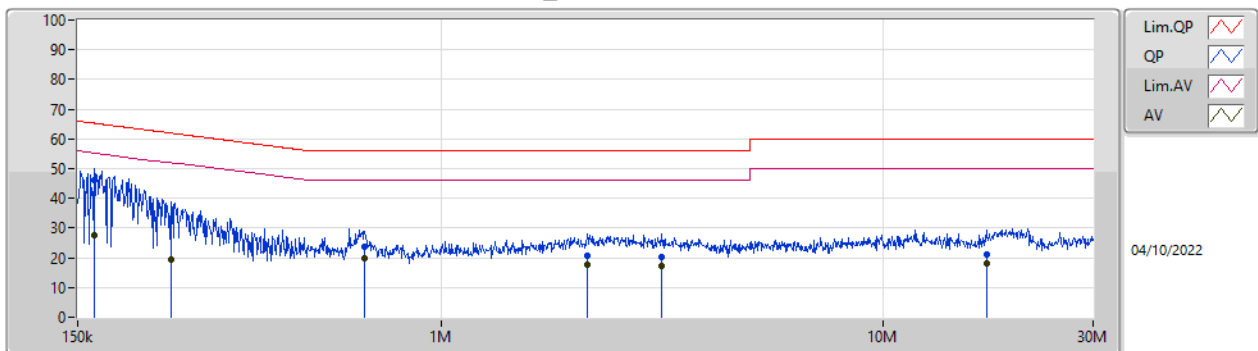
Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition	Comments
Mode 1	Pass	QP	150k	46.79	66.00	-19.21	Line	-
Mode 1	Pass	AV	150k	29.98	56.00	-26.02	Line	-
Mode 1	Pass	QP	246.077k	33.29	61.89	-28.60	Line	-
Mode 1	Pass	AV	246.077k	20.12	51.89	-31.77	Line	-
Mode 1	Pass	QP	656.999k	25.52	56.00	-30.48	Line	-
Mode 1	Pass	AV	656.999k	20.63	46.00	-25.37	Line	-
Mode 1	Pass	QP	1.848M	21.50	56.00	-34.50	Line	-
Mode 1	Pass	AV	1.848M	18.35	46.00	-27.65	Line	-
Mode 1	Pass	QP	3.296M	20.17	56.00	-35.83	Line	-
Mode 1	Pass	AV	3.296M	17.25	46.00	-28.75	Line	-
Mode 1	Pass	QP	18.491M	21.33	60.00	-38.67	Line	-
Mode 1	Pass	AV	18.491M	18.40	50.00	-31.60	Line	-
Mode 1	Pass	QP	163.769k	46.00	65.27	-19.27	Neutral	-
Mode 1	Pass	AV	163.769k	27.52	55.27	-27.75	Neutral	-
Mode 1	Pass	QP	245.097k	33.10	61.93	-28.83	Neutral	-
Mode 1	Pass	AV	245.097k	19.58	51.93	-32.35	Neutral	-
Mode 1	Pass	QP	670.245k	23.74	56.00	-32.26	Neutral	-
Mode 1	Pass	AV	670.245k	19.86	46.00	-26.14	Neutral	-
Mode 1	Pass	QP	2.142M	20.53	56.00	-35.47	Neutral	-
Mode 1	Pass	AV	2.142M	17.63	46.00	-28.37	Neutral	-
Mode 1	Pass	QP	3.167M	20.34	56.00	-35.66	Neutral	-
Mode 1	Pass	AV	3.167M	17.35	46.00	-28.65	Neutral	-
Mode 1	Pass	QP	17.208M	21.24	60.00	-38.76	Neutral	-
Mode 1	Pass	AV	17.208M	18.22	50.00	-31.78	Neutral	-

Conducted Emissions at Powerline_Mode 1



Type	Freq	Level	Limit	Margin	Factor	Condition	Comment	Raw	LISN	CL	AT				
	(Hz)	(dBuV)	(dBuV)	(dB)	(dB)			(dBuV)	(dB)	(dB)	(dB)				
QP	150k	46.79	66.00	-19.21	19.63	Line	-	27.16	9.69	0.03	9.91				
AV	150k	29.98	56.00	-26.02	19.63	Line	-	10.35	9.69	0.03	9.91				
QP	246.077k	33.29	61.89	-28.60	19.63	Line	-	13.66	9.69	0.03	9.91				
AV	246.077k	20.12	51.89	-31.77	19.63	Line	-	0.49	9.69	0.03	9.91				
QP	656.999k	25.52	56.00	-30.48	19.65	Line	-	5.87	9.68	0.05	9.92				
AV	656.999k	20.63	46.00	-25.37	19.65	Line	-	0.98	9.68	0.05	9.92				
QP	1.848M	21.50	56.00	-34.50	19.70	Line	-	1.80	9.70	0.08	9.92				
AV	1.848M	18.35	46.00	-27.65	19.70	Line	-	-1.35	9.70	0.08	9.92				
QP	3.296M	20.17	56.00	-35.83	19.75	Line	-	0.42	9.71	0.12	9.92				
AV	3.296M	17.25	46.00	-28.75	19.75	Line	-	-2.50	9.71	0.12	9.92				
QP	18.491M	21.33	60.00	-38.67	19.98	Line	-	1.35	9.79	0.26	9.93				
AV	18.491M	18.40	50.00	-31.60	19.98	Line	-	-1.58	9.79	0.26	9.93				

Conducted Emissions at Powerline_Mode 1



Type	Freq	Level	Limit	Margin	Factor	Condition	Comment	Raw	LISN	CL	AT				
	(Hz)	(dBuV)	(dBuV)	(dB)	(dB)			(dBuV)	(dB)	(dB)	(dB)				
QP	163.769k	46.00	65.27	-19.27	19.67	Neutral	-	26.33	9.73	0.03	9.91				
AV	163.769k	27.52	55.27	-27.75	19.67	Neutral	-	7.85	9.73	0.03	9.91				
QP	245.097k	33.10	61.93	-28.83	19.66	Neutral	-	13.44	9.72	0.03	9.91				
AV	245.097k	19.58	51.93	-32.35	19.66	Neutral	-	-0.08	9.72	0.03	9.91				
QP	670.245k	23.74	56.00	-32.26	19.70	Neutral	-	4.04	9.73	0.05	9.92				
AV	670.245k	19.86	46.00	-26.14	19.70	Neutral	-	0.16	9.73	0.05	9.92				
QP	2.142M	20.53	56.00	-35.47	19.74	Neutral	-	0.79	9.74	0.08	9.92				
AV	2.142M	17.63	46.00	-28.37	19.74	Neutral	-	-2.11	9.74	0.08	9.92				
QP	3.167M	20.34	56.00	-35.66	19.78	Neutral	-	0.56	9.75	0.11	9.92				
AV	3.167M	17.35	46.00	-28.65	19.78	Neutral	-	-2.43	9.75	0.11	9.92				
QP	17.208M	21.24	60.00	-38.76	20.15	Neutral	-	1.09	9.97	0.25	9.93				
AV	17.208M	18.22	50.00	-31.78	20.15	Neutral	-	-1.93	9.97	0.25	9.93				

Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.15-5.25GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	20.7M	16.388M	16M4D1D	19.92M	16.337M
802.11n HT20_Nss1,(MCS0)_2TX	21.42M	17.602M	17M6D1D	20.82M	17.543M
802.11n HT40_Nss1,(MCS0)_2TX	41.16M	36.144M	36M1D1D	40.38M	36.026M
802.11ac VHT20_Nss1,(MCS0)_2TX	21.27M	17.572M	17M6D1D	20.82M	17.543M
802.11ac VHT40_Nss1,(MCS0)_2TX	40.86M	36.085M	36M1D1D	40.32M	36.085M
802.11ac VHT80_Nss1,(MCS0)_2TX	82.08M	75.15M	75M1D1D	81.48M	75.013M
802.11ax HEW20_Nss1,(MCS0)_2TX	21.87M	18.924M	18M9D1D	21.18M	18.865M
802.11ax HEW40_Nss1,(MCS0)_2TX	41.22M	37.79M	37M8D1D	40.98M	37.613M
802.11ax HEW80_Nss1,(MCS0)_2TX	82.32M	76.968M	77M0D1D	82.08M	76.949M
5.725-5.85GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	16.29M	16.49M	16M5D1D	15.45M	16.363M
802.11n HT20_Nss1,(MCS0)_2TX	17.13M	17.661M	17M7D1D	15.9M	17.572M
802.11n HT40_Nss1,(MCS0)_2TX	36.36M	36.203M	36M2D1D	35.4M	36.085M
802.11ac VHT20_Nss1,(MCS0)_2TX	17.16M	17.631M	17M6D1D	16.5M	17.572M
802.11ac VHT40_Nss1,(MCS0)_2TX	35.94M	36.144M	36M1D1D	33.78M	36.085M
802.11ac VHT80_Nss1,(MCS0)_2TX	73.2M	75.344M	75M3D1D	72.84M	75.226M
802.11ax HEW20_Nss1,(MCS0)_2TX	18.06M	18.954M	19M0D1D	16.86M	18.895M
802.11ax HEW40_Nss1,(MCS0)_2TX	37.5M	37.79M	37M8D1D	37.14M	37.731M
802.11ax HEW80_Nss1,(MCS0)_2TX	77.88M	77.107M	77M1D1D	76.08M	76.99M

Max-N dB = Maximum 6dB down bandwidth for 5.725-5.85GHz band / Maximum 26dB down bandwidth for other band;
 Max-OBW = Maximum 99% occupied bandwidth;
 Min-N dB = Minimum 6dB down bandwidth for 5.725-5.85GHz band / Maximum 26dB down bandwidth for other band;
 Min-OBW = Minimum 99% occupied bandwidth

Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
5180MHz	Pass	Inf	20.55M	16.363M	20.58M	16.388M
5200MHz	Pass	Inf	20.1M	16.337M	20.7M	16.363M
5240MHz	Pass	Inf	19.92M	16.337M	20.64M	16.363M
5745MHz	Pass	500k	15.75M	16.388M	15.9M	16.363M
5785MHz	Pass	500k	16.26M	16.414M	16.29M	16.388M
5825MHz	Pass	500k	15.45M	16.49M	15.69M	16.439M
802.11n HT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5180MHz	Pass	Inf	21.42M	17.572M	21.39M	17.543M
5200MHz	Pass	Inf	21.24M	17.572M	21.06M	17.543M
5240MHz	Pass	Inf	20.94M	17.602M	20.82M	17.602M
5745MHz	Pass	500k	16.56M	17.602M	17.1M	17.572M
5785MHz	Pass	500k	15.9M	17.602M	16.83M	17.572M
5825MHz	Pass	500k	17.13M	17.661M	16.5M	17.631M
802.11n HT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5190MHz	Pass	Inf	40.56M	36.085M	41.16M	36.026M
5230MHz	Pass	Inf	40.74M	36.144M	40.38M	36.144M
5755MHz	Pass	500k	36.36M	36.085M	35.7M	36.144M
5795MHz	Pass	500k	36.3M	36.203M	35.4M	36.144M
802.11ac VHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5180MHz	Pass	Inf	20.82M	17.572M	21.27M	17.543M
5200MHz	Pass	Inf	21.18M	17.572M	21.15M	17.543M
5240MHz	Pass	Inf	20.94M	17.572M	20.88M	17.543M
5745MHz	Pass	500k	16.89M	17.602M	16.5M	17.572M
5785MHz	Pass	500k	16.74M	17.602M	16.86M	17.572M
5825MHz	Pass	500k	17.16M	17.631M	16.8M	17.572M
802.11ac VHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5190MHz	Pass	Inf	40.44M	36.085M	40.86M	36.085M
5230MHz	Pass	Inf	40.32M	36.085M	40.38M	36.085M
5755MHz	Pass	500k	35.94M	36.144M	33.78M	36.085M
5795MHz	Pass	500k	35.64M	36.144M	35.64M	36.144M
802.11ac VHT80_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5210MHz	Pass	Inf	82.08M	75.15M	81.48M	75.013M
5775MHz	Pass	500k	73.2M	75.226M	72.84M	75.344M
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5180MHz	Pass	Inf	21.42M	18.895M	21.87M	18.895M
5200MHz	Pass	Inf	21.18M	18.865M	21.45M	18.865M
5240MHz	Pass	Inf	21.21M	18.924M	21.6M	18.924M
5745MHz	Pass	500k	17.28M	18.924M	16.86M	18.895M
5785MHz	Pass	500k	18.06M	18.924M	18M	18.895M
5825MHz	Pass	500k	18M	18.954M	17.58M	18.924M
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5190MHz	Pass	Inf	41.16M	37.731M	41.22M	37.613M
5230MHz	Pass	Inf	40.98M	37.731M	40.98M	37.79M
5755MHz	Pass	500k	37.32M	37.731M	37.32M	37.79M
5795MHz	Pass	500k	37.14M	37.79M	37.5M	37.731M
802.11ax HEW80_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5210MHz	Pass	Inf	82.32M	76.968M	82.08M	76.949M
5775MHz	Pass	500k	77.88M	77.107M	76.08M	76.99M

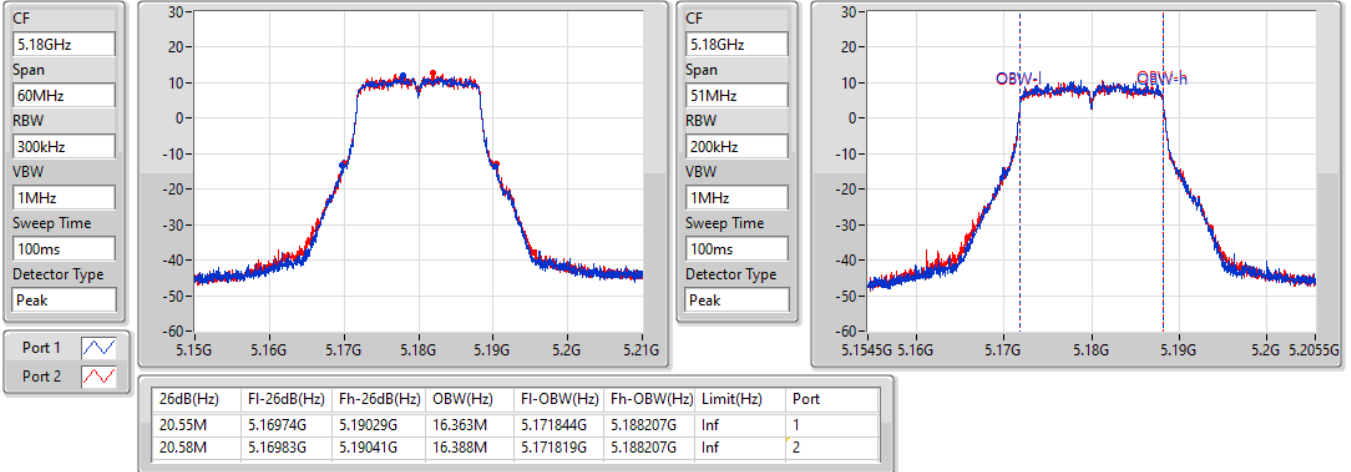
Port X-N dB = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band
Port X-OBW = Port X 99% occupied bandwidth

5.15-5.25GHz_802.11a_Nss1,(6Mbps)_2TX

EBW

5180MHz

14/09/2022

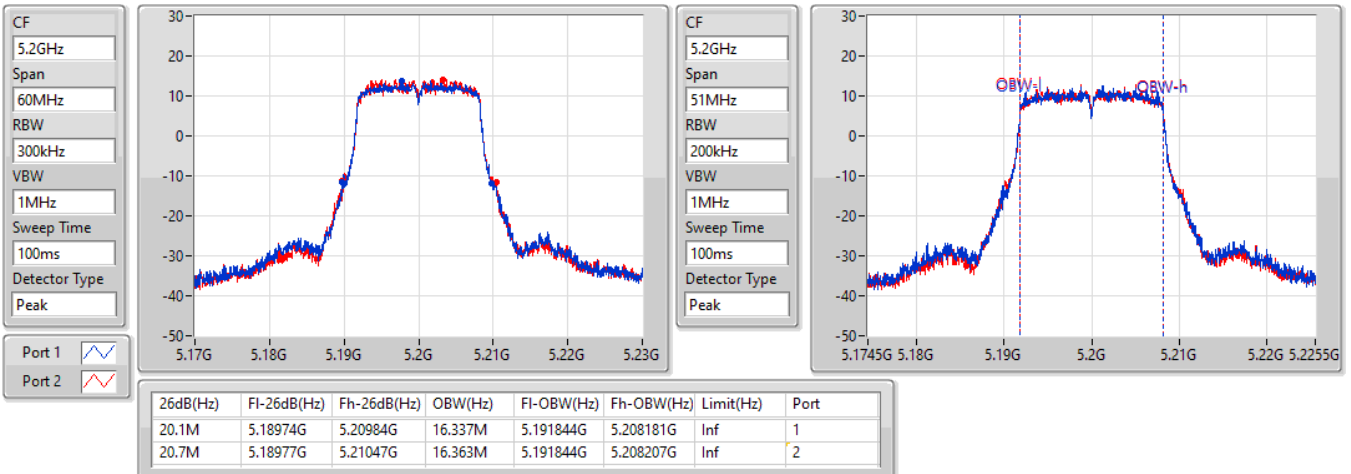


5.15-5.25GHz_802.11a_Nss1,(6Mbps)_2TX

EBW

5200MHz

14/09/2022

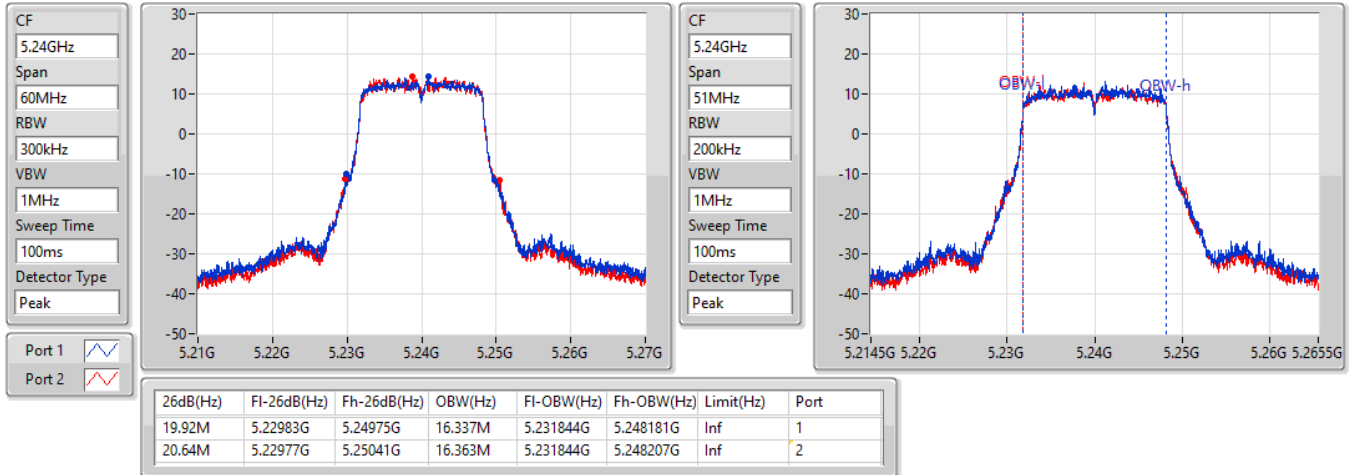


5.15-5.25GHz_802.11a_Nss1,(6Mbps)_2TX

EBW

5240MHz

14/09/2022

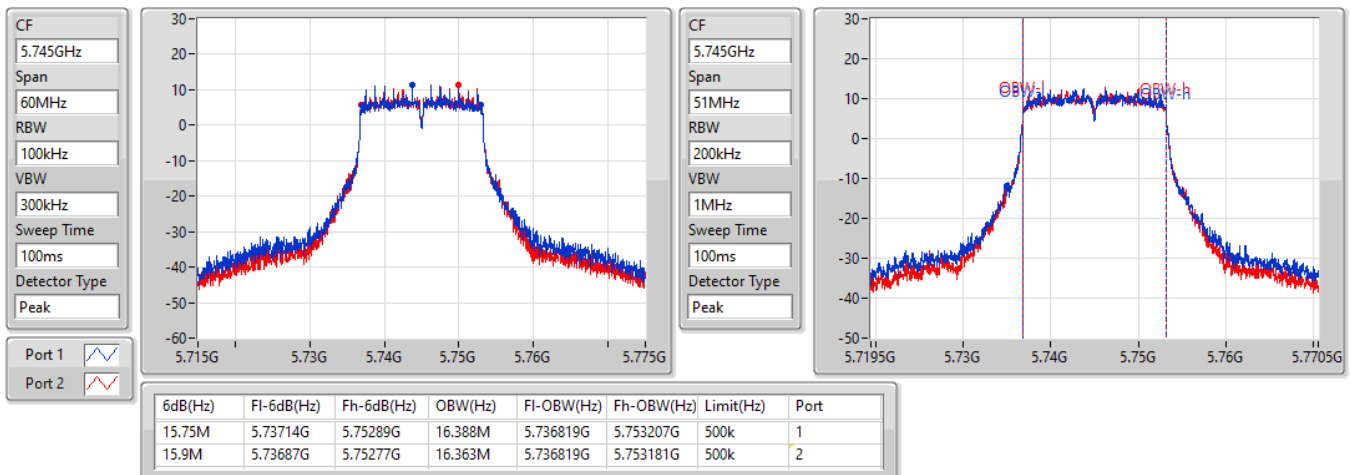


5.725-5.85GHz_802.11a_Nss1,(6Mbps)_2TX

EBW

5745MHz

14/09/2022

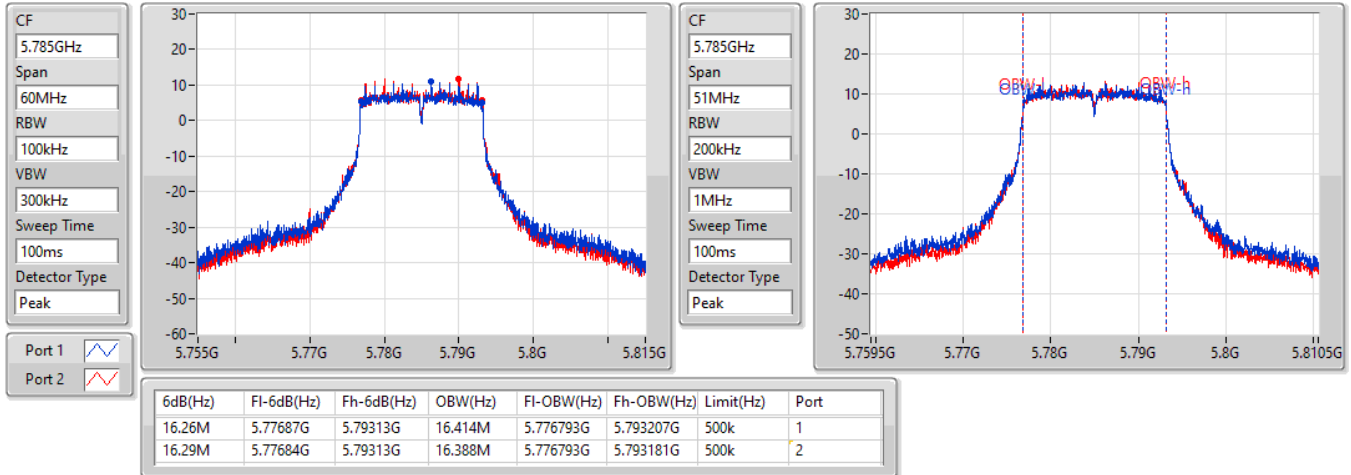


5.725-5.85GHz_802.11a_Nss1,(6Mbps)_2TX

EBW

5785MHz

14/09/2022

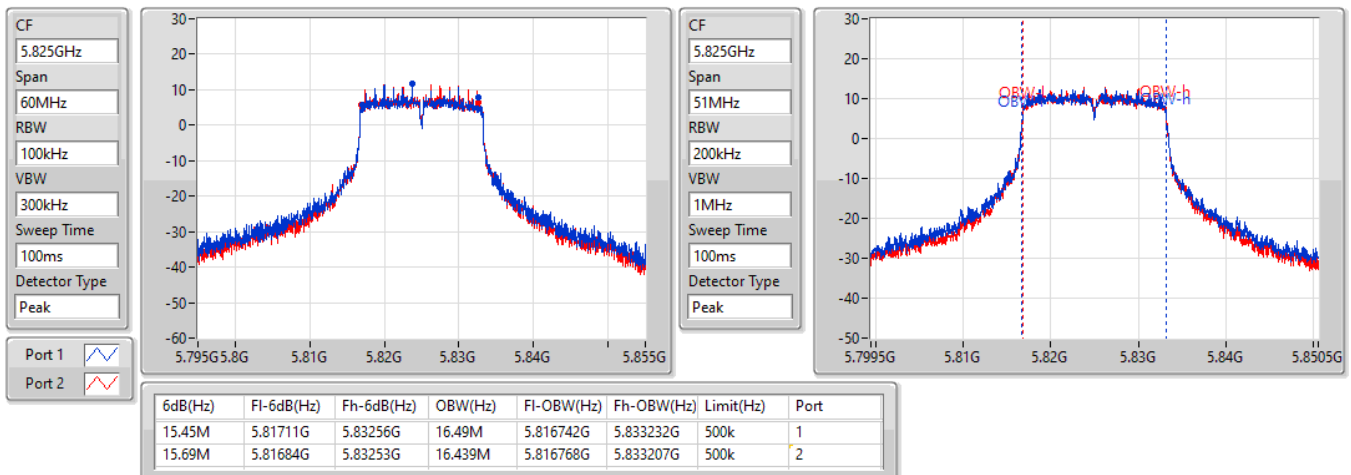


5.725-5.85GHz_802.11a_Nss1,(6Mbps)_2TX

EBW

5825MHz

14/09/2022

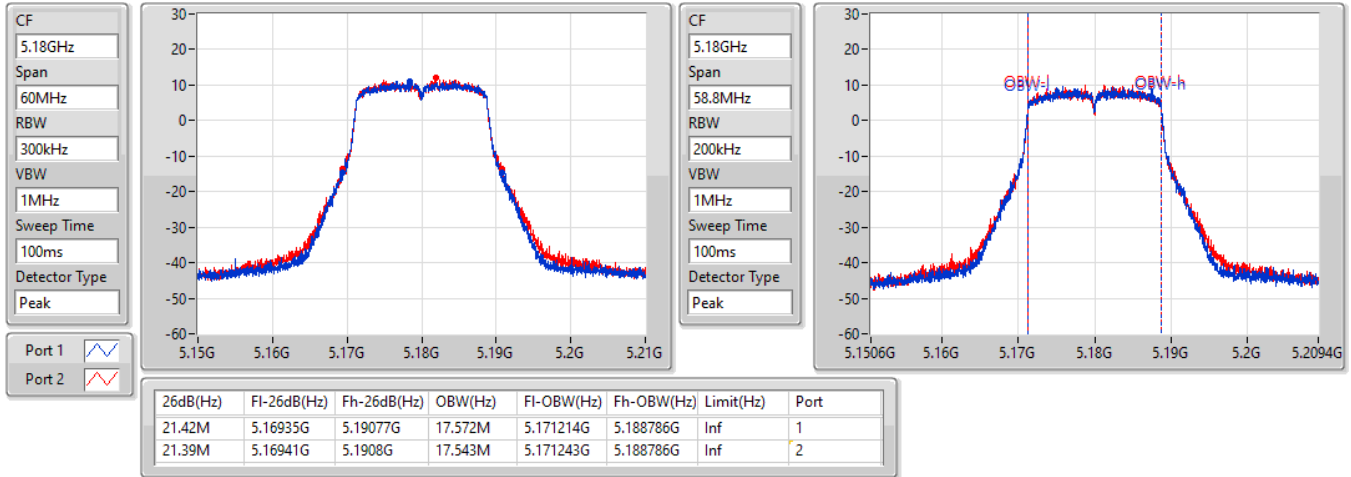


5.15-5.25GHz_802.11n HT20_Nss1,(MCS0)_2TX

EBW

5180MHz

16/09/2022

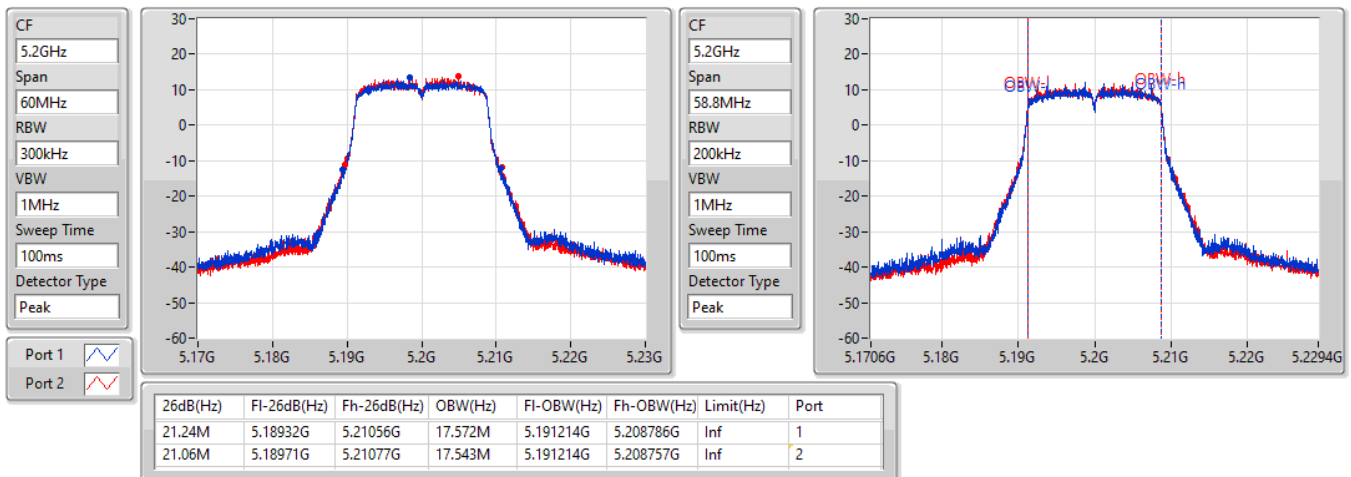


5.15-5.25GHz_802.11n HT20_Nss1,(MCS0)_2TX

EBW

5200MHz

16/09/2022

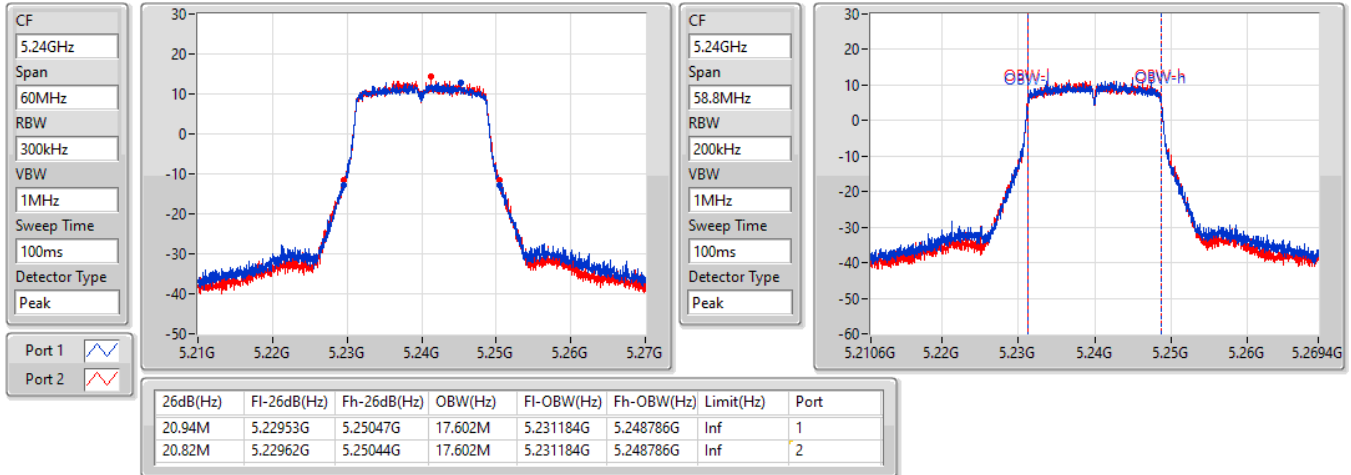


5.15-5.25GHz_802.11n HT20_Nss1,(MCS0)_2TX

EBW

5240MHz

16/09/2022

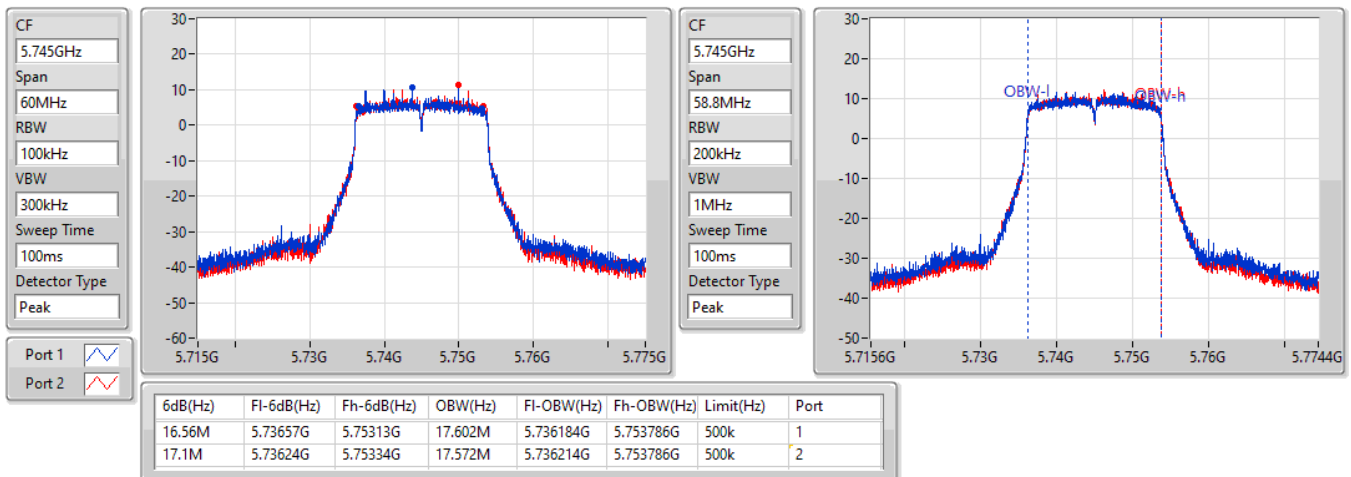


5.725-5.85GHz_802.11n HT20_Nss1,(MCS0)_2TX

EBW

5745MHz

16/09/2022

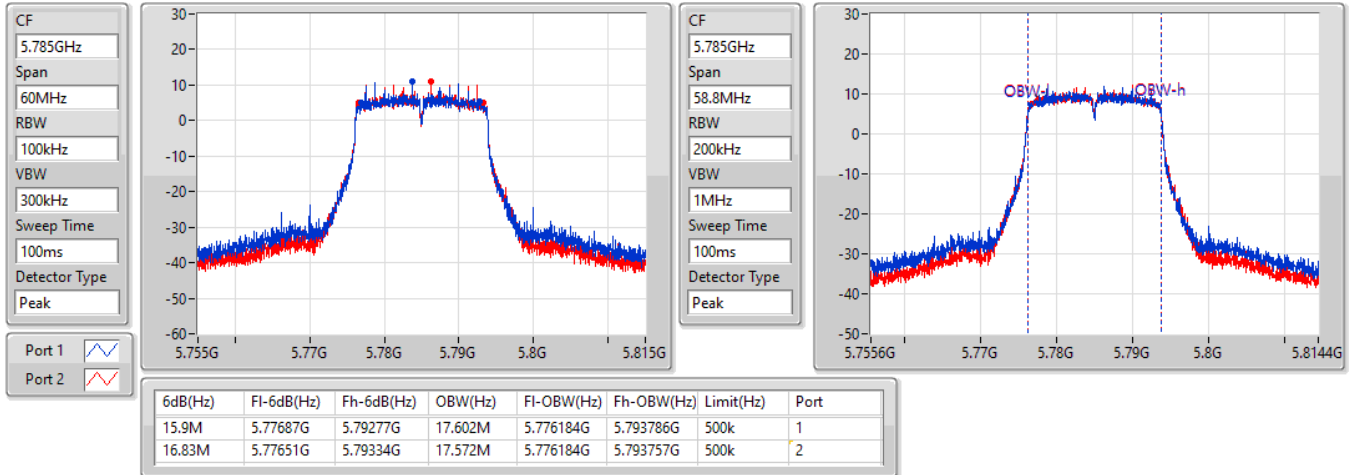


5.725-5.85GHz_802.11n HT20_Nss1,(MCS0)_2TX

EBW

5785MHz

16/09/2022

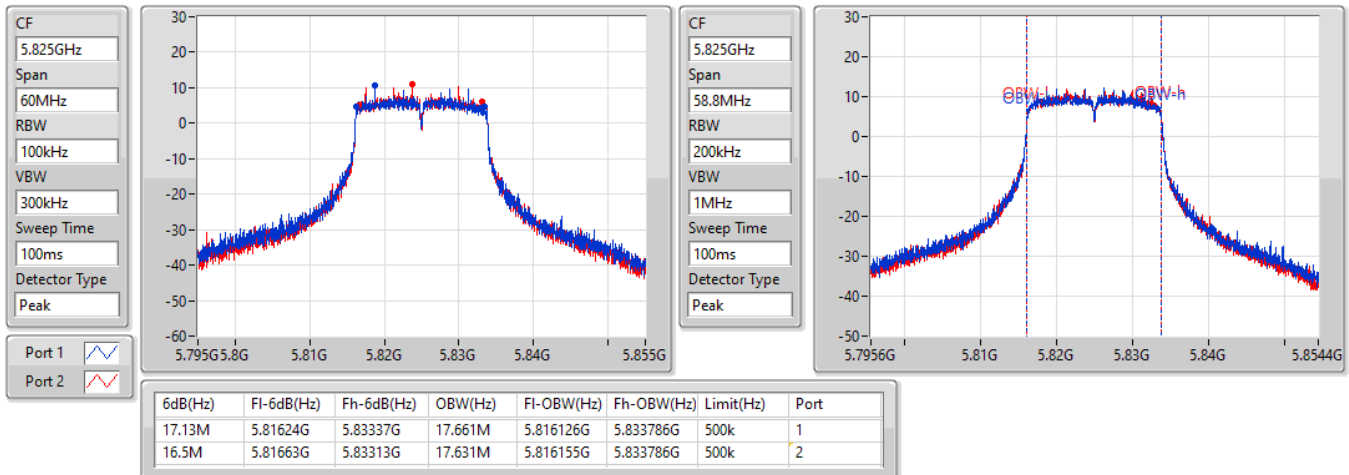


5.725-5.85GHz_802.11n HT20_Nss1,(MCS0)_2TX

EBW

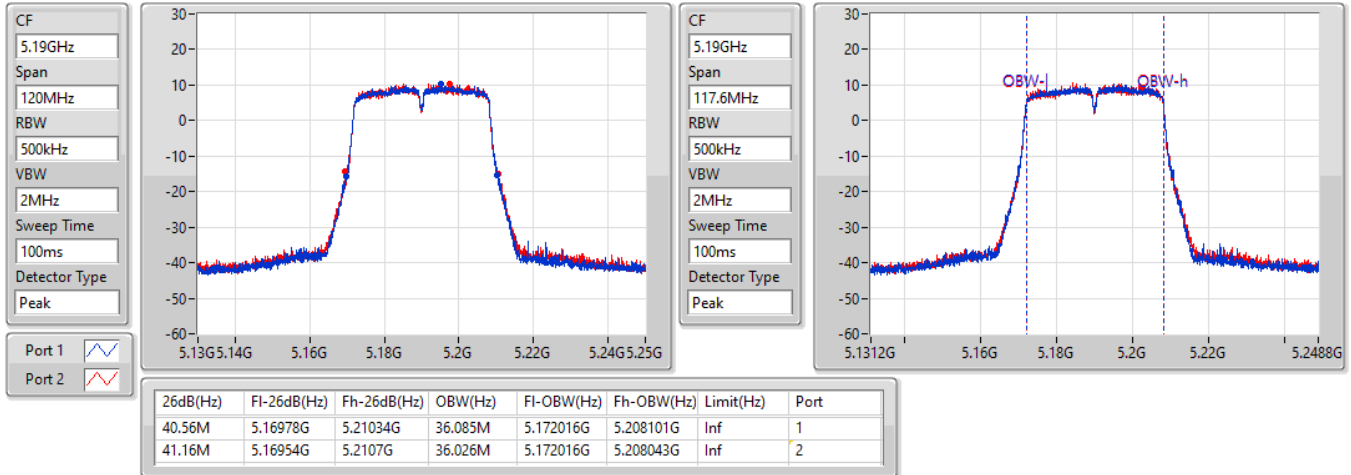
5825MHz

16/09/2022

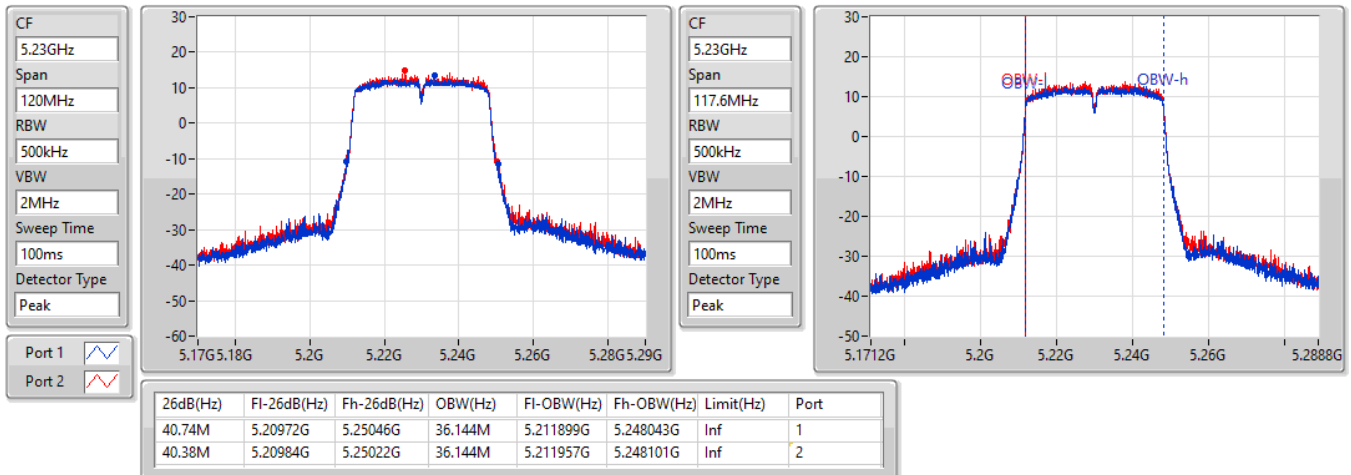


5.15-5.25GHz_802.11n HT40_Nss1,(MCS0)_2TX
EBW
5190MHz

16/09/2022

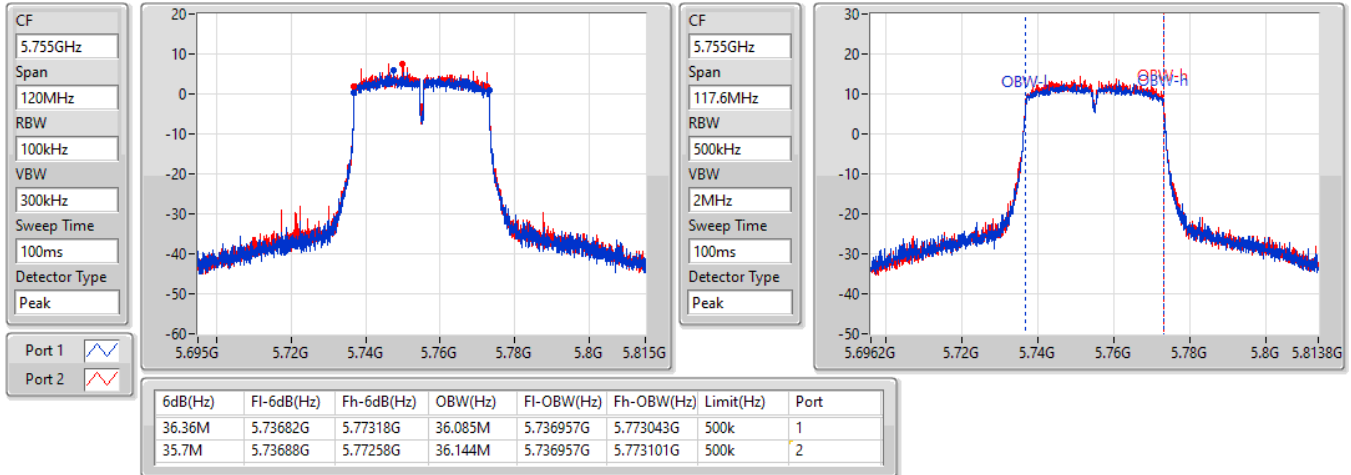

5.15-5.25GHz_802.11n HT40_Nss1,(MCS0)_2TX
EBW
5230MHz

16/09/2022

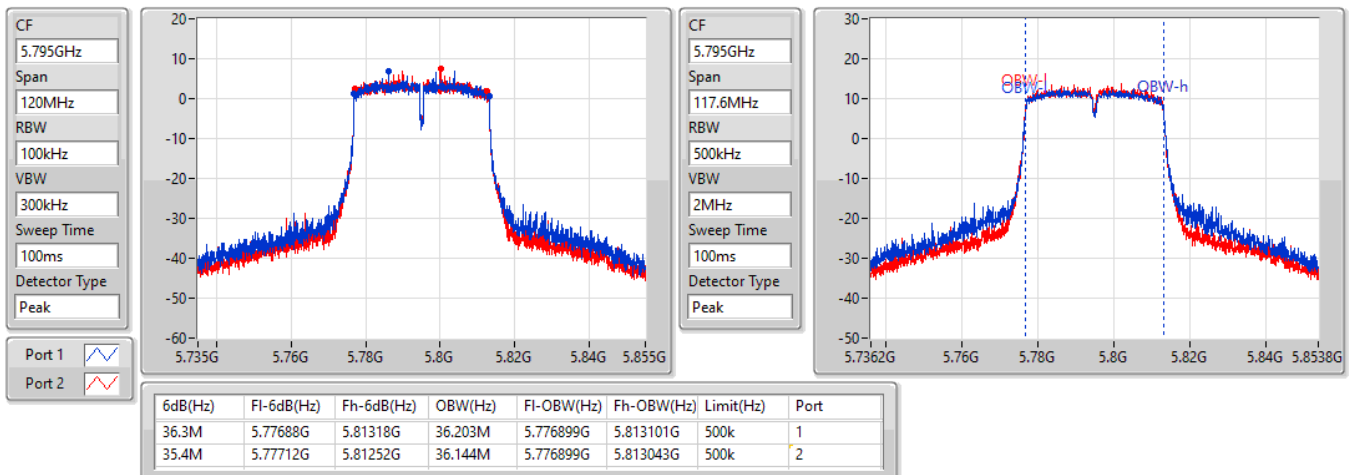


5.725-5.85GHz_802.11n HT40_Nss1,(MCS0)_2TX
EBW
5755MHz

16/09/2022


5.725-5.85GHz_802.11n HT40_Nss1,(MCS0)_2TX
EBW
5795MHz

16/09/2022

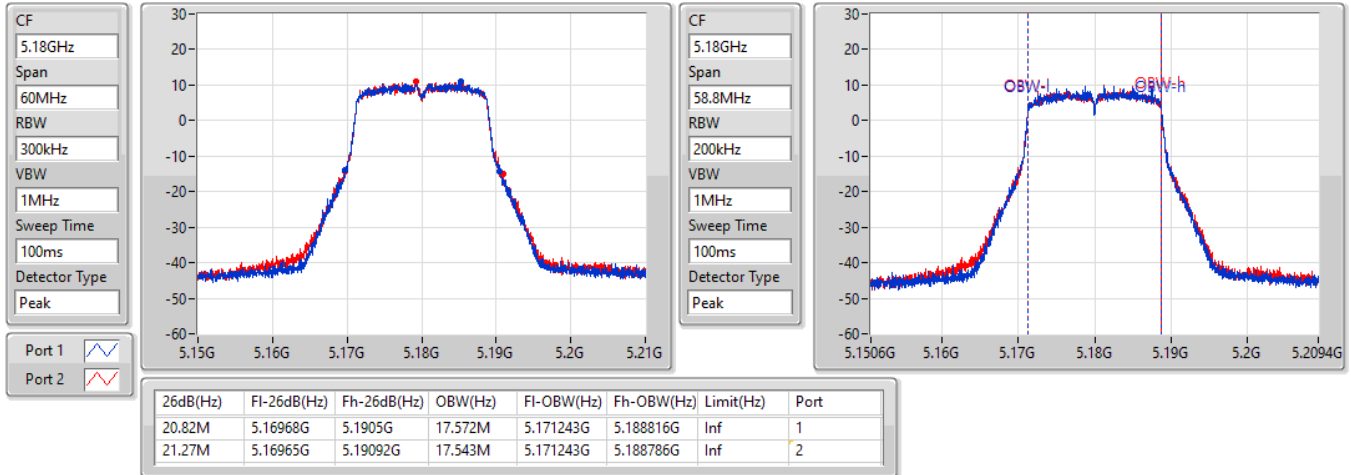


5.15-5.25GHz_802.11ac VHT20_Nss1,(MCS0)_2TX

EBW

5180MHz

16/09/2022

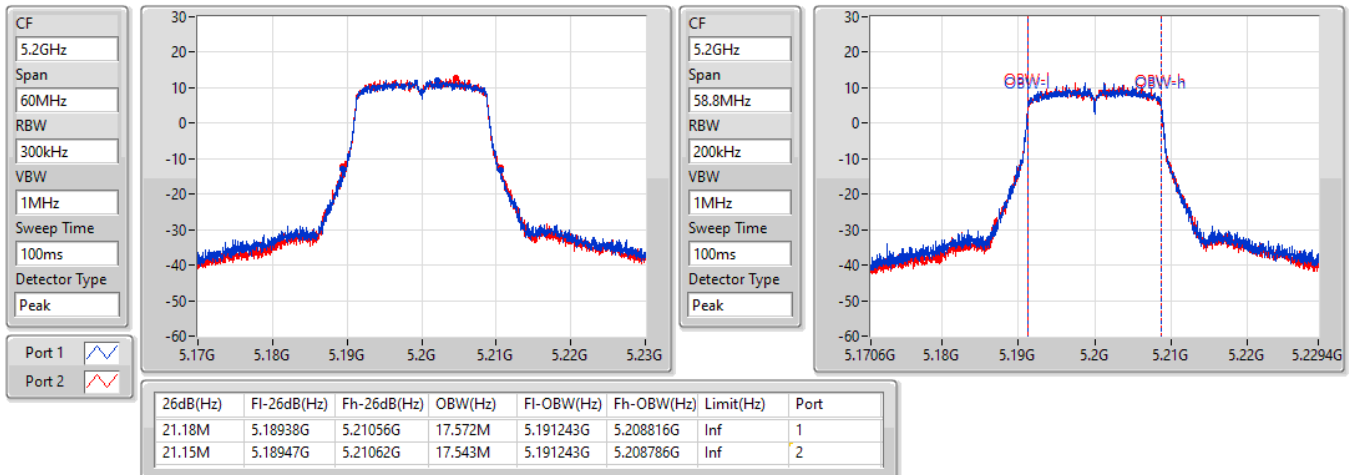


5.15-5.25GHz_802.11ac VHT20_Nss1,(MCS0)_2TX

EBW

5200MHz

16/09/2022

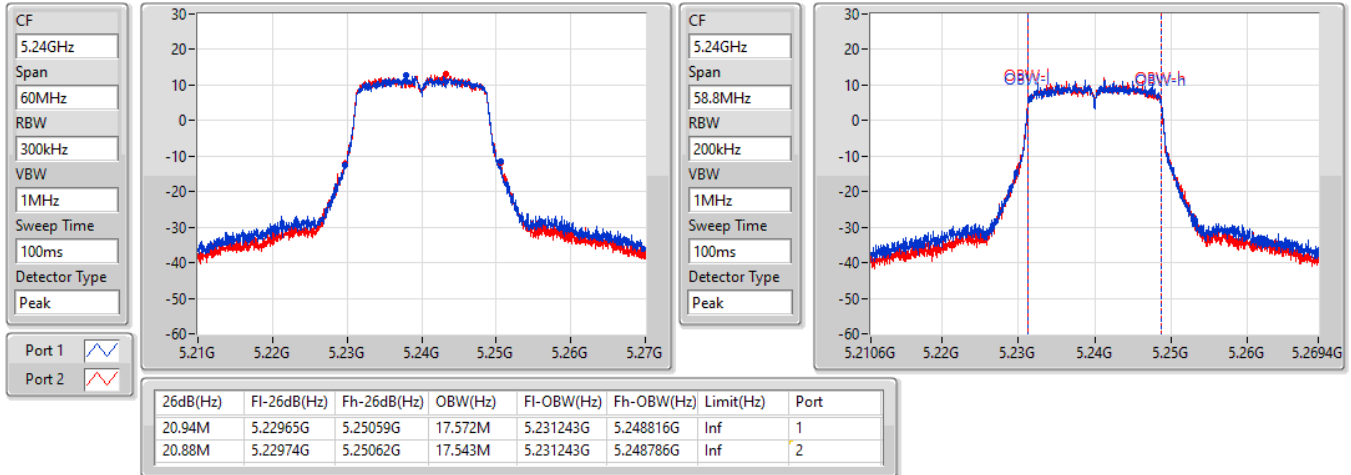


5.15-5.25GHz_802.11ac VHT20_Nss1,(MCS0)_2TX

EBW

5240MHz

16/09/2022

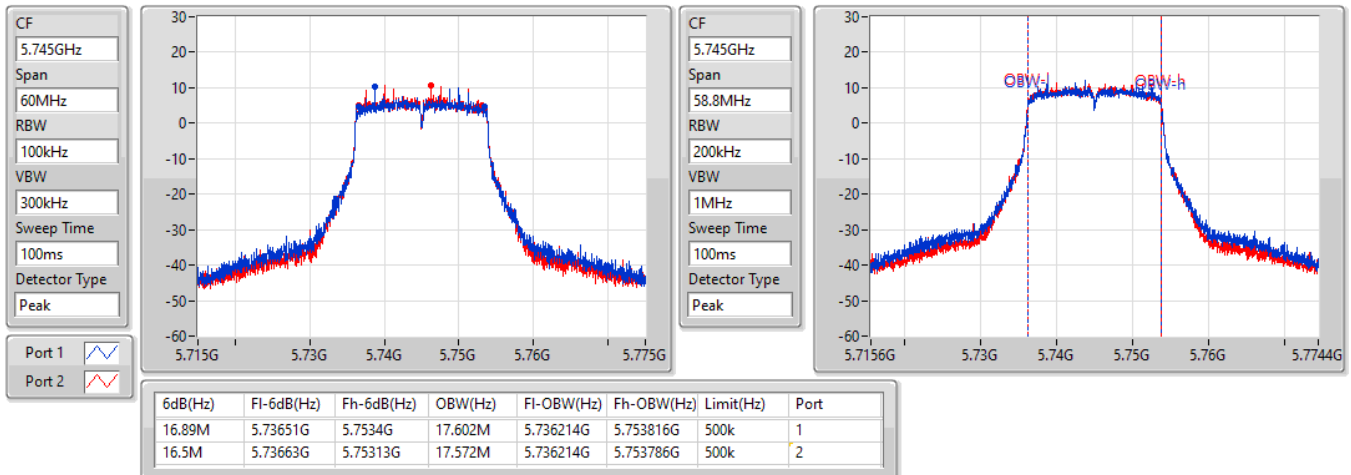


5.725-5.85GHz_802.11ac VHT20_Nss1,(MCS0)_2TX

EBW

5745MHz

16/09/2022

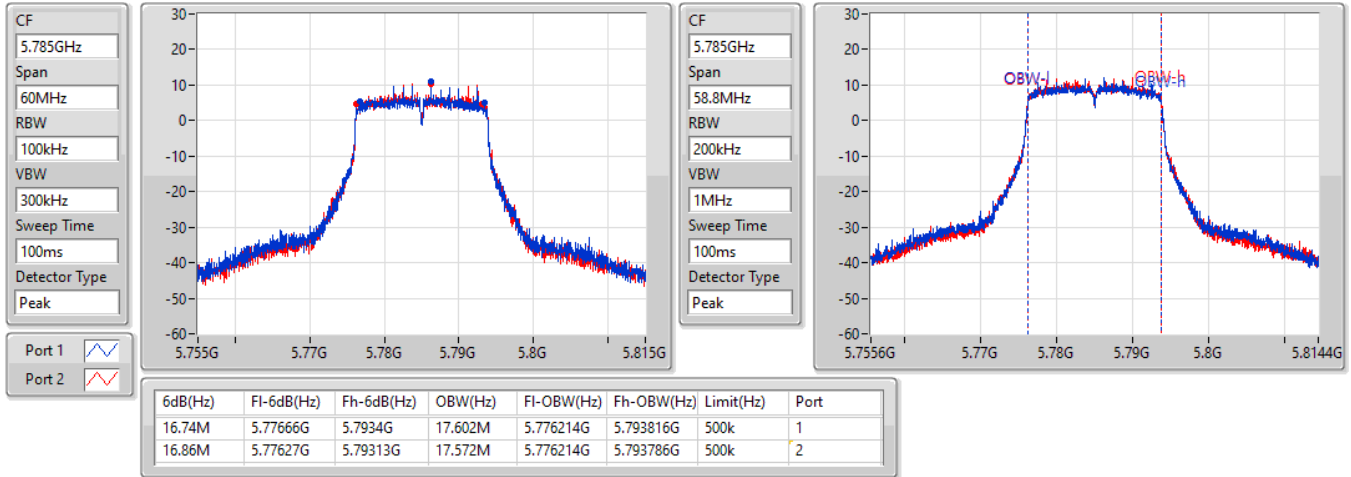


5.725-5.85GHz_802.11ac VHT20_Nss1,(MCS0)_2TX

EBW

5785MHz

16/09/2022

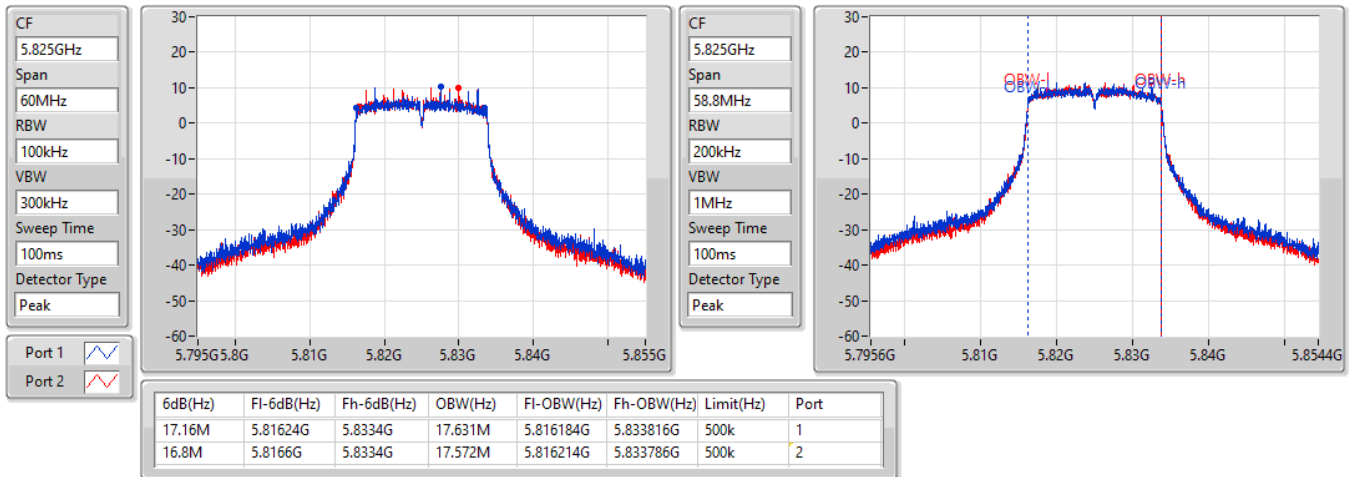


5.725-5.85GHz_802.11ac VHT20_Nss1,(MCS0)_2TX

EBW

5825MHz

16/09/2022

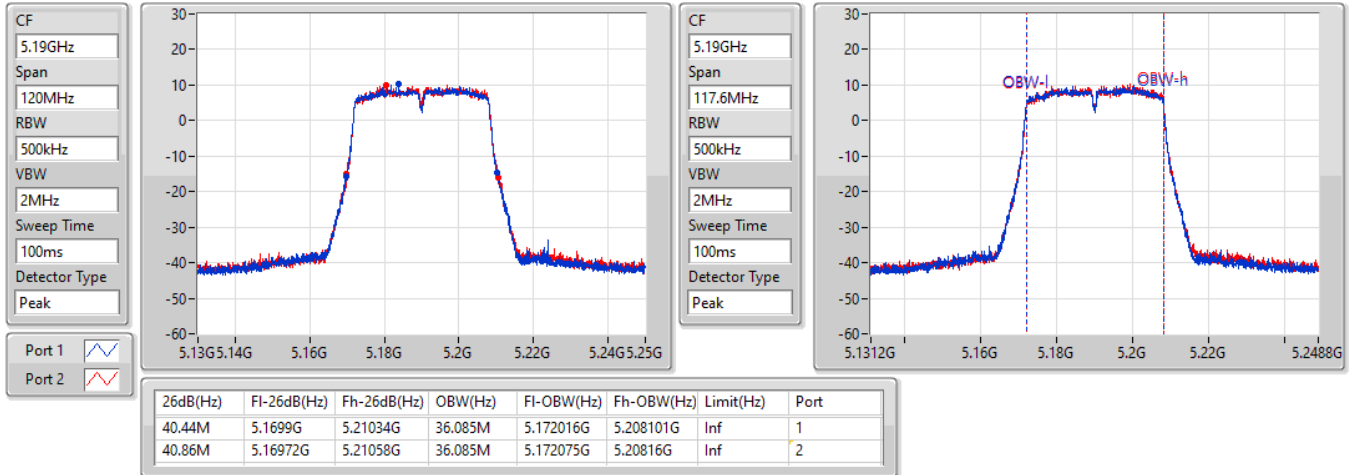


5.15-5.25GHz_802.11ac VHT40_Nss1,(MCS0)_2TX

EBW

5190MHz

16/09/2022

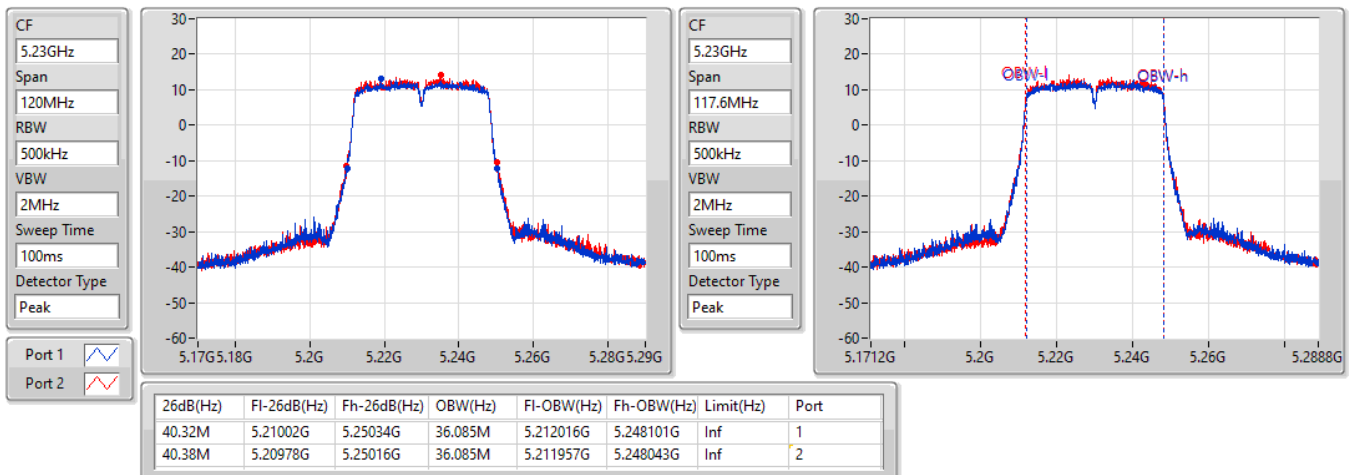


5.15-5.25GHz_802.11ac VHT40_Nss1,(MCS0)_2TX

EBW

5230MHz

16/09/2022

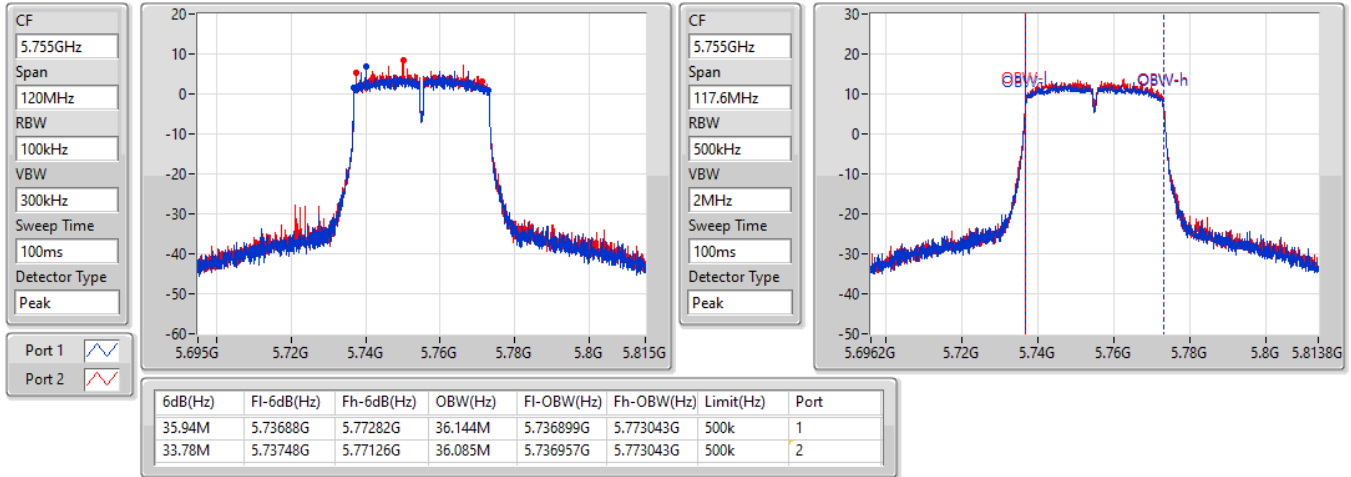


5.725-5.85GHz_802.11ac VHT40_Nss1,(MCS0)_2TX

EBW

5755MHz

16/09/2022

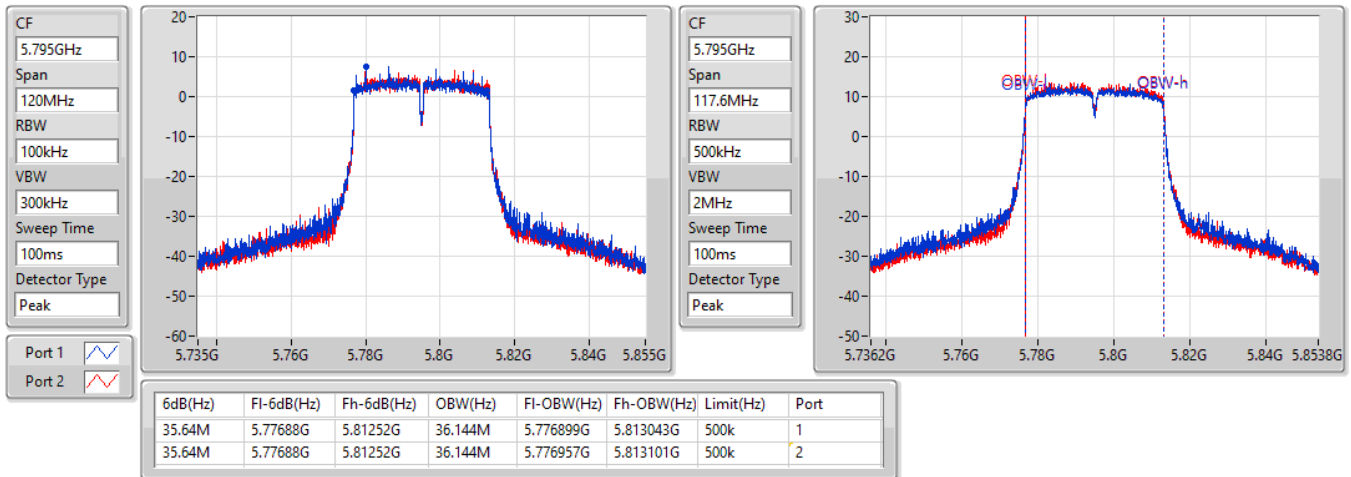


5.725-5.85GHz_802.11ac VHT40_Nss1,(MCS0)_2TX

EBW

5795MHz

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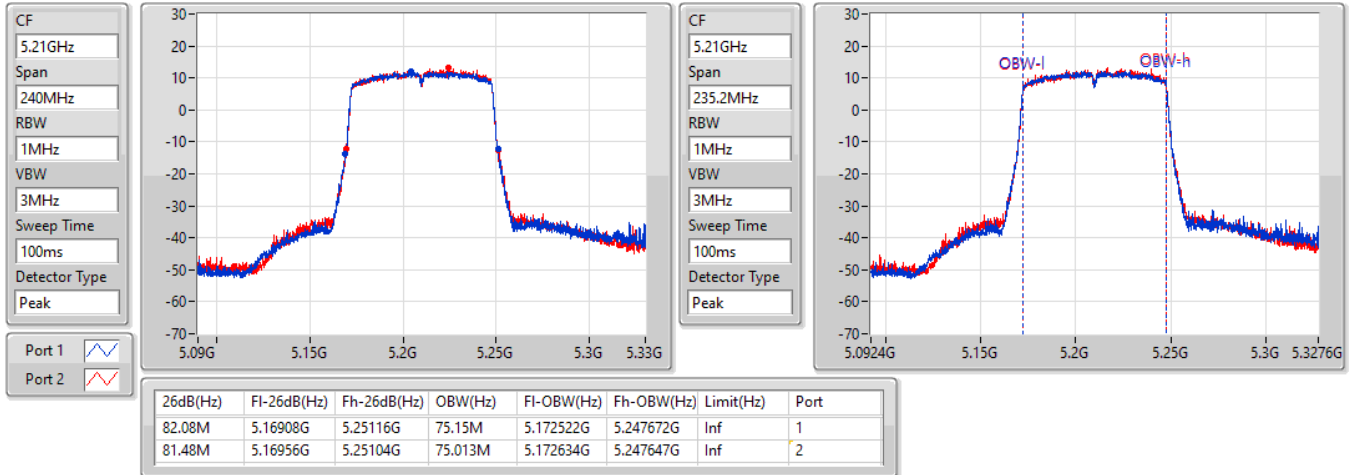


5.15-5.25GHz_802.11ac VHT80_Nss1,(MCS0)_2TX

EBW

5210MHz

19/09/2022

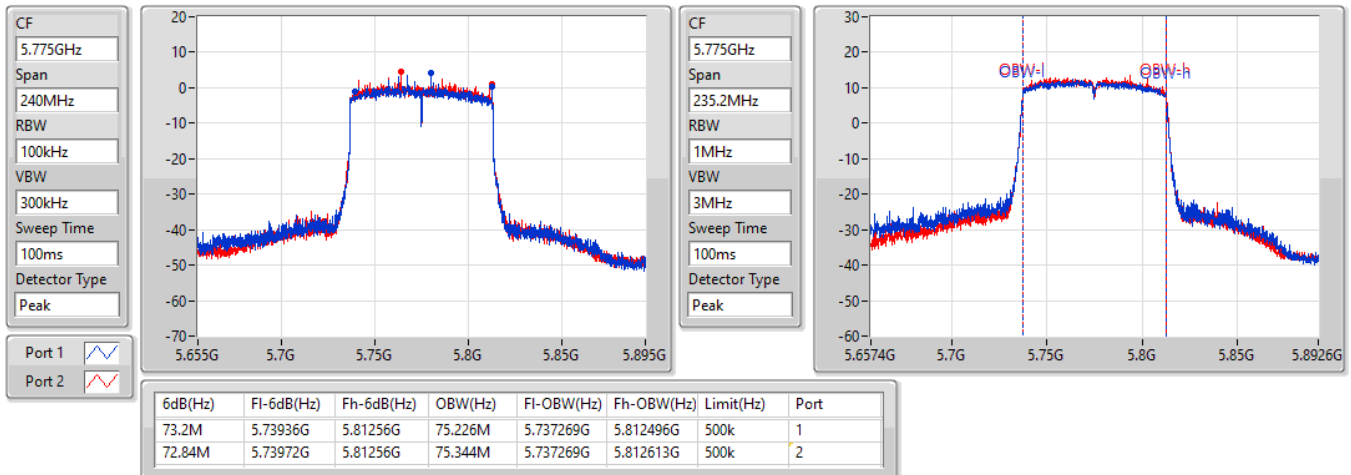


5.725-5.85GHz_802.11ac VHT80_Nss1,(MCS0)_2TX

EBW

5775MHz

16/09/2022

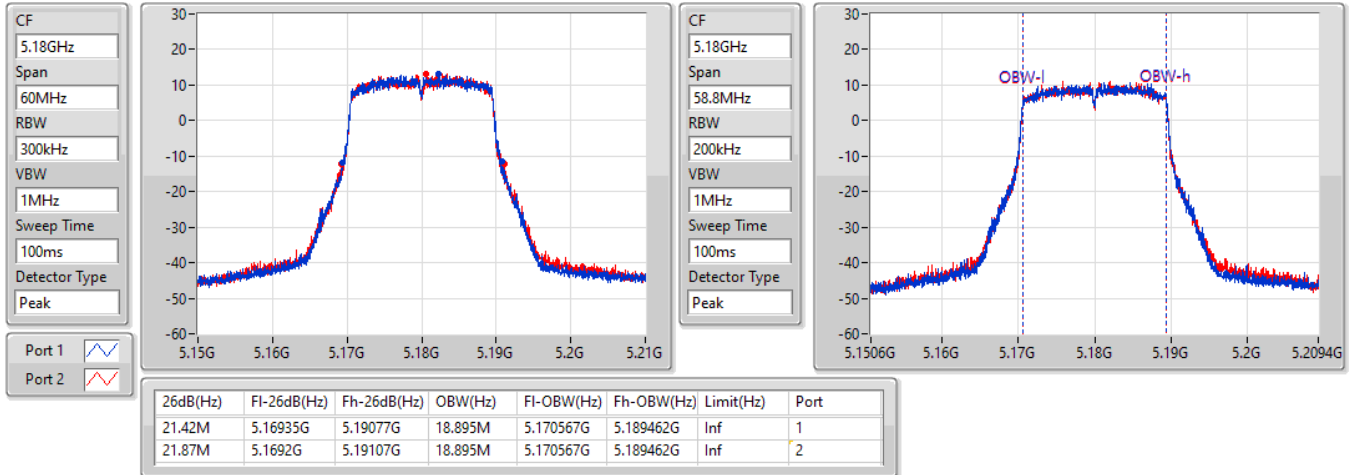


5.15-5.25GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

EBW

5180MHz

14/09/2022

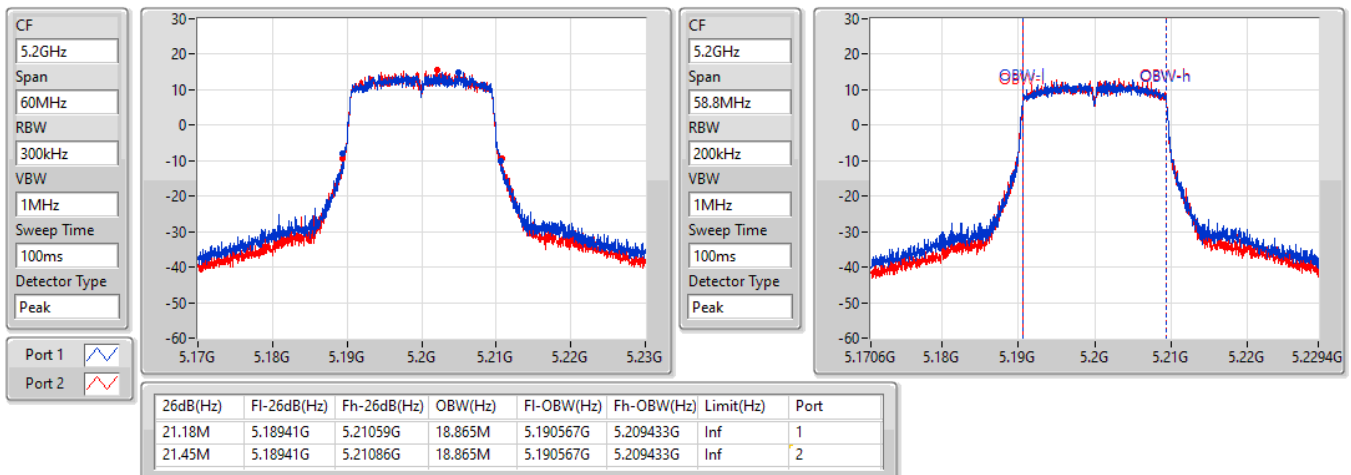


5.15-5.25GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

EBW

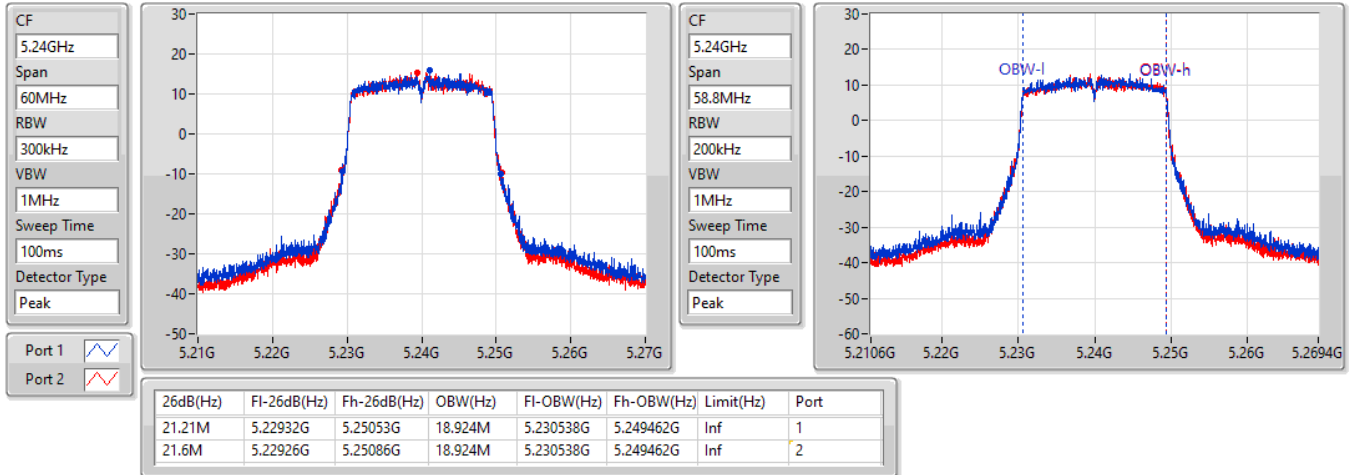
5200MHz

14/09/2022

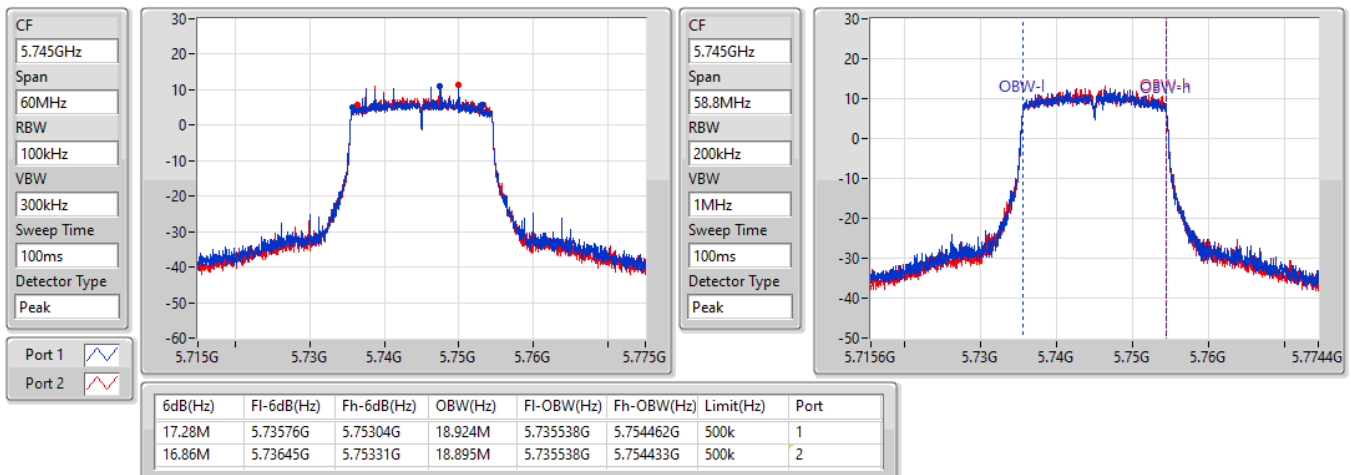


5.15-5.25GHz_802.11ax HEW20_Nss1,(MCS0)_2TX
EBW
5240MHz

14/09/2022


5.725-5.85GHz_802.11ax HEW20_Nss1,(MCS0)_2TX
EBW
5745MHz

14/09/2022

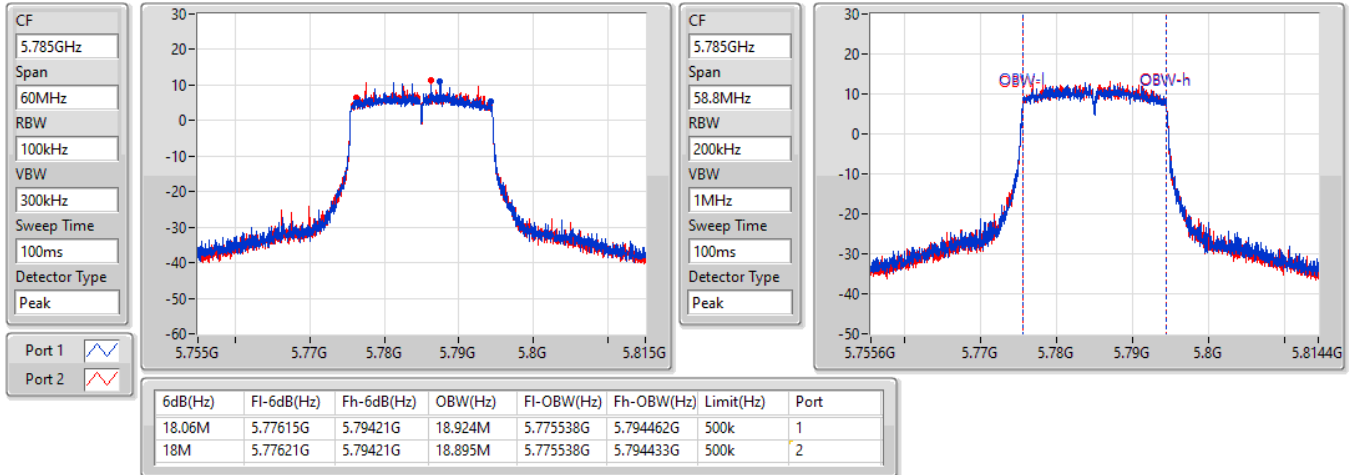


5.725-5.85GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

EBW

5785MHz

14/09/2022

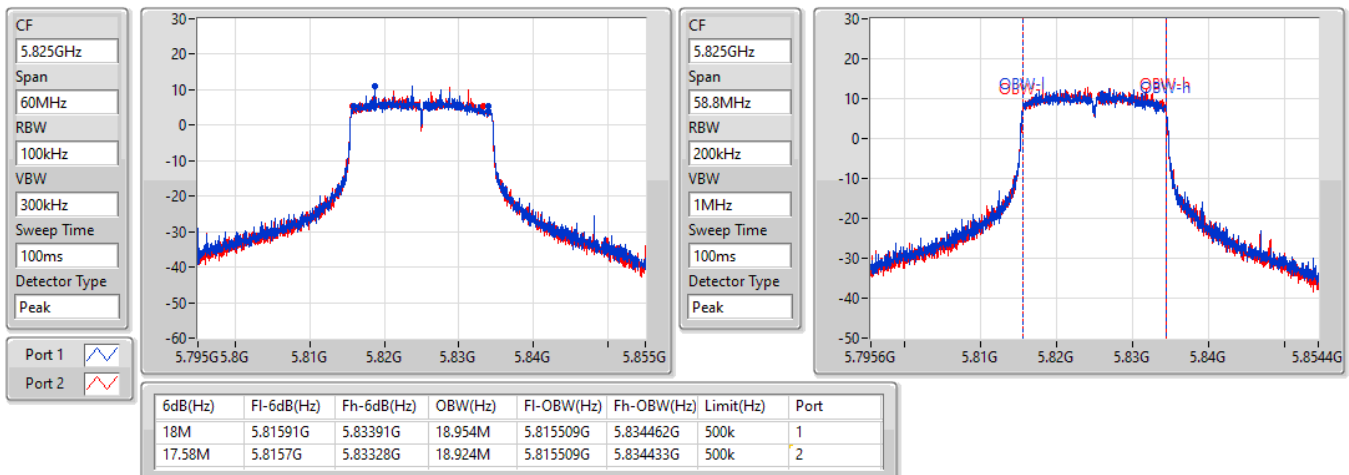


5.725-5.85GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

EBW

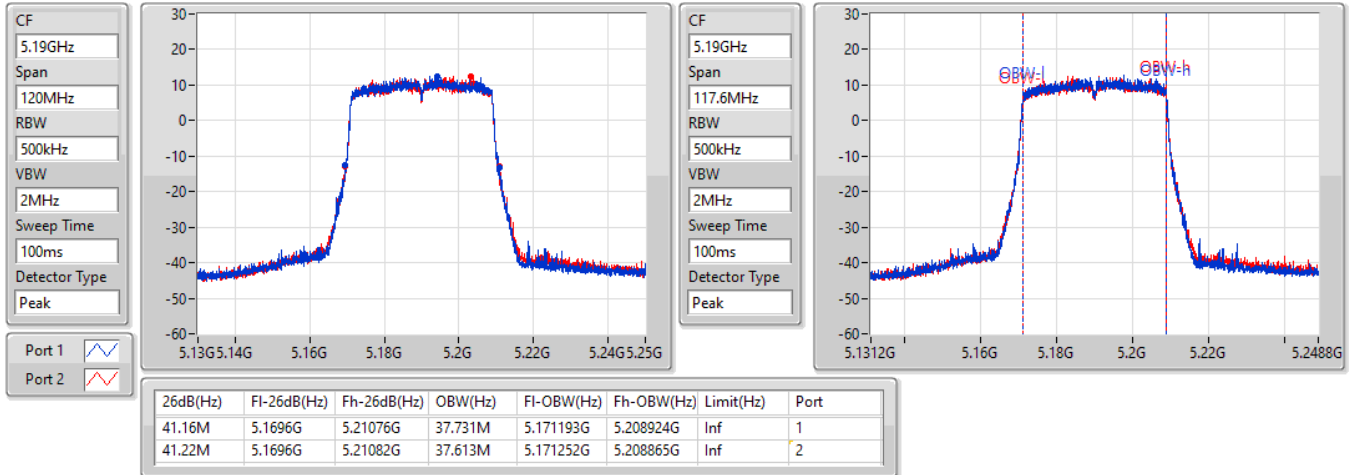
5825MHz

14/09/2022

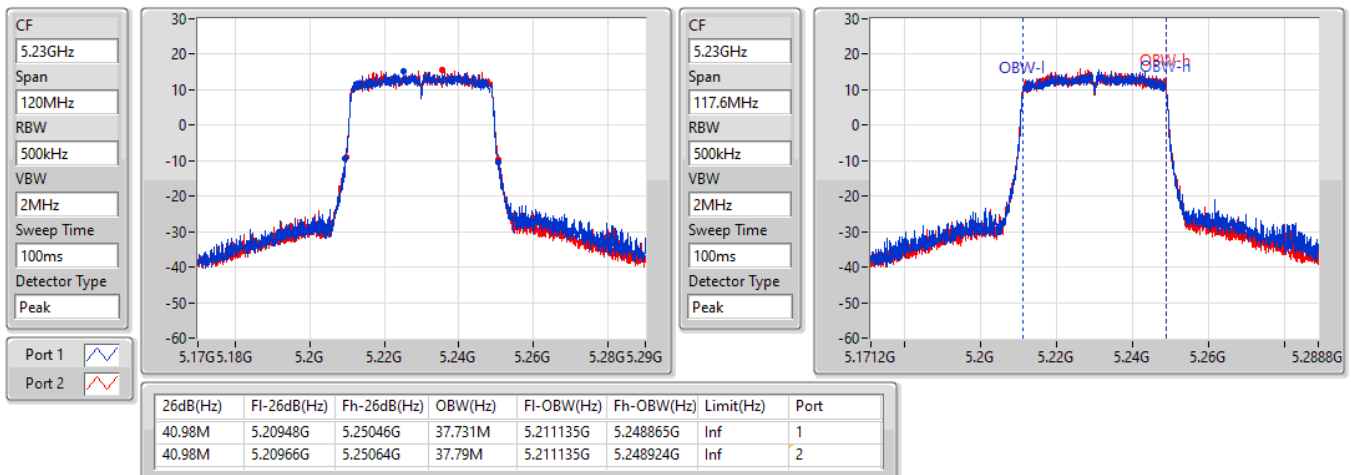


5.15-5.25GHz_802.11ax HEW40_Nss1,(MCS0)_2TX
EBW
5190MHz

14/09/2022


5.15-5.25GHz_802.11ax HEW40_Nss1,(MCS0)_2TX
EBW
5230MHz

14/09/2022

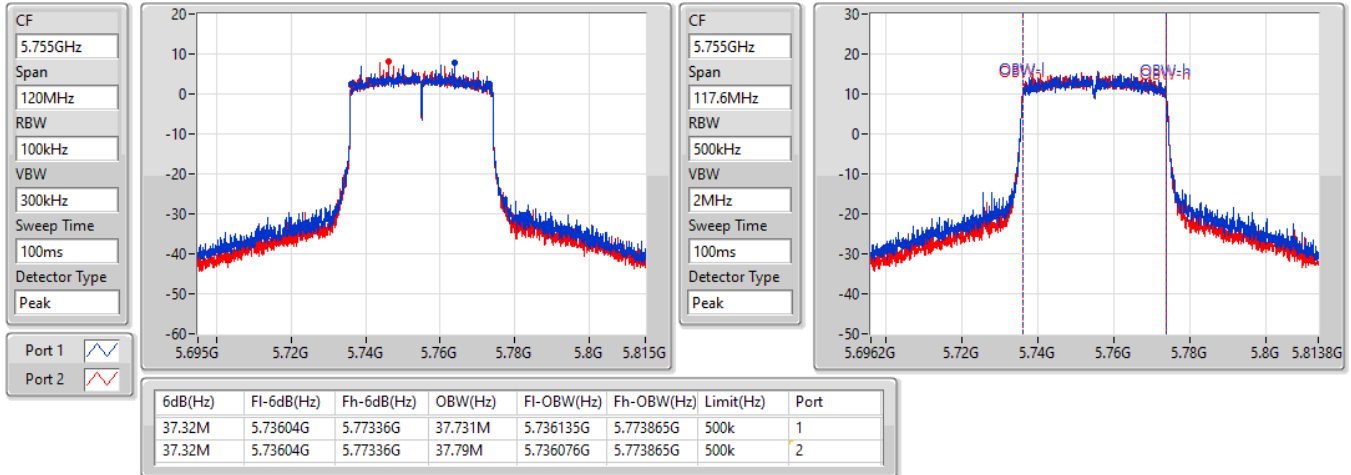


5.725-5.85GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

EBW

5755MHz

14/09/2022

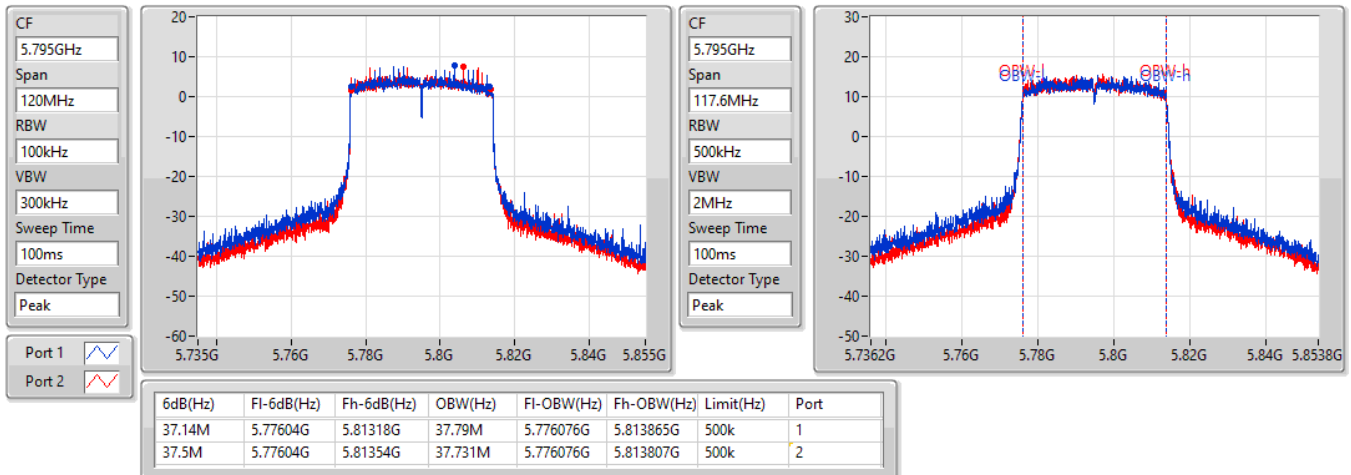


5.725-5.85GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

EBW

5795MHz

14/09/2022

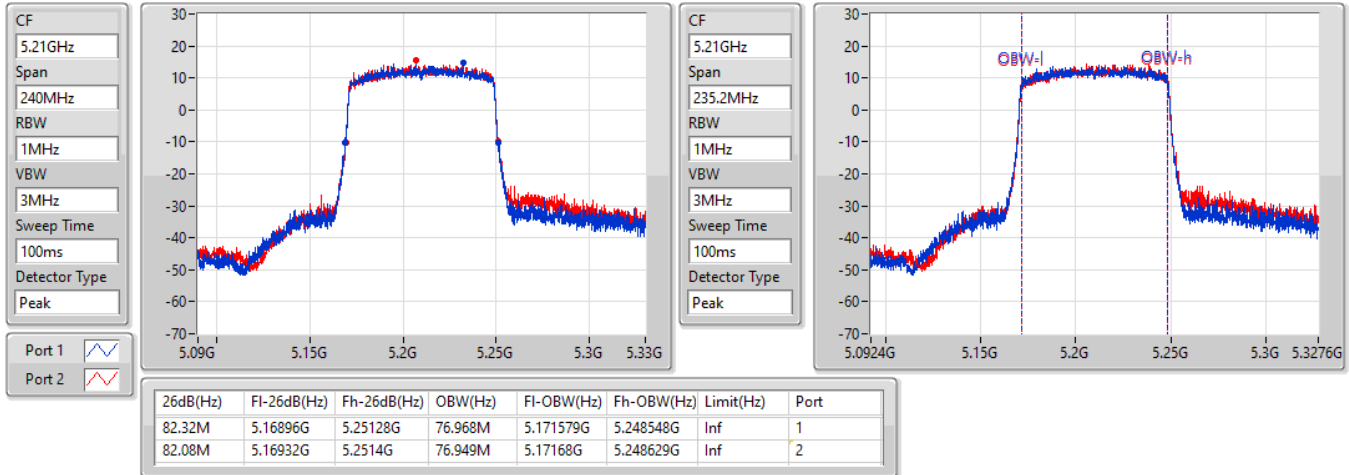


5.15-5.25GHz_802.11ax HEW80_Nss1,(MCS0)_2TX

EBW

5210MHz

19/09/2022

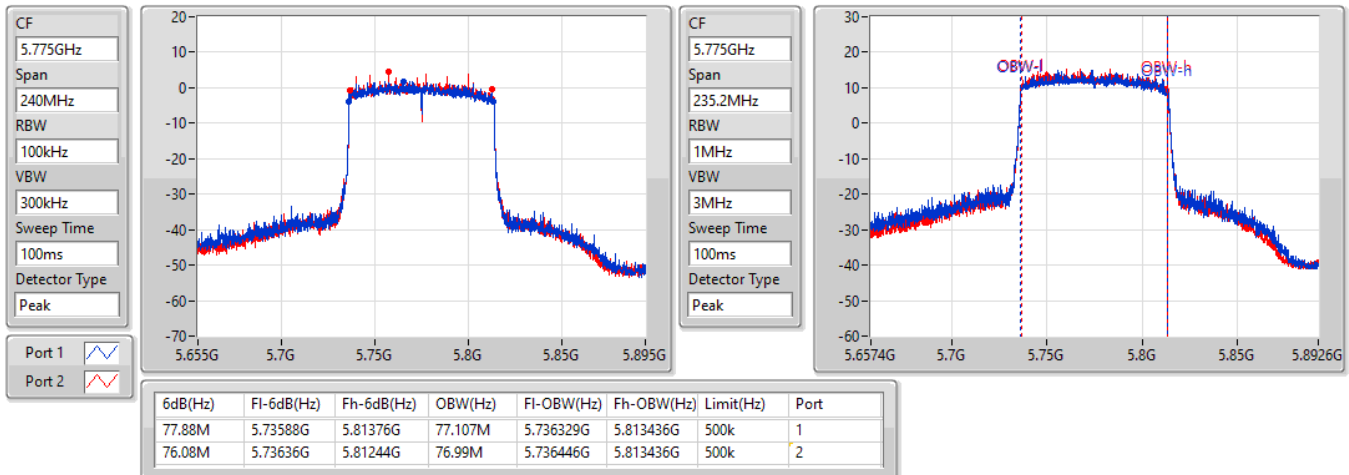


5.725-5.85GHz_802.11ax HEW80_Nss1,(MCS0)_2TX

EBW

5775MHz

14/09/2022





EBW_Non-Beamforming_Radio2(Low Band)+Radio3(High Band) Appendix B.2

Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.15-5.25GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	20.7M	16.432M	16M5D1D	20.58M	16.402M
802.11n HT20_Nss1,(MCS0)_2TX	21.42M	17.631M	17M7D1D	21.03M	17.601M
802.11n HT40_Nss1,(MCS0)_2TX	40.98M	36.222M	36M3D1D	40.26M	36.162M
802.11ac VHT20_Nss1,(MCS0)_2TX	21.42M	17.661M	17M7D1D	21.06M	17.601M
802.11ac VHT40_Nss1,(MCS0)_2TX	40.98M	36.282M	36M3D1D	40.44M	36.222M
802.11ac VHT80_Nss1,(MCS0)_2TX	81.72M	75.322M	75M4D1D	81.48M	75.202M
802.11ax HEW20_Nss1,(MCS0)_2TX	21.93M	18.951M	19M0D1D	21.09M	18.921M
802.11ax HEW40_Nss1,(MCS0)_2TX	41.4M	38.021M	38M0D1D	41.1M	37.841M
802.11ax HEW80_Nss1,(MCS0)_2TX	82.56M	77.121M	77M2D1D	81.84M	77.121M
5.725-5.85GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	16.35M	17.001M	17M0D1D	16.32M	16.672M
802.11n HT20_Nss1,(MCS0)_2TX	17.64M	19.46M	19M5D1D	17.58M	18.141M
802.11n HT40_Nss1,(MCS0)_2TX	36.3M	52.174M	52M2D1D	35.46M	41.139M
802.11ac VHT20_Nss1,(MCS0)_2TX	17.61M	19.79M	19M8D1D	17.58M	17.901M
802.11ac VHT40_Nss1,(MCS0)_2TX	36.3M	51.034M	51M0D1D	35.34M	40.78M
802.11ac VHT80_Nss1,(MCS0)_2TX	74.4M	75.802M	75M9D1D	72.48M	75.682M
802.11ax HEW20_Nss1,(MCS0)_2TX	19.11M	19.34M	19M4D1D	18.96M	19.22M
802.11ax HEW40_Nss1,(MCS0)_2TX	37.92M	38.441M	38M5D1D	36.78M	38.381M
802.11ax HEW80_Nss1,(MCS0)_2TX	77.76M	77.601M	77M7D1D	75.48M	77.481M

Max-N dB = Maximum 6dB down bandwidth for 5.725-5.85GHz band / Maximum 26dB down bandwidth for other band;
Max-OBW = Maximum 99% occupied bandwidth;
Min-N dB = Minimum 6dB down bandwidth for 5.725-5.85GHz band / Maximum 26dB down bandwidth for other band;
Min-OBW = Minimum 99% occupied bandwidth



EBW_Non-Beamforming_Radio2(Low Band)+Radio3(High Band) Appendix B.2

Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
5180MHz	Pass	Inf	20.58M	16.432M	20.7M	16.402M
5200MHz	Pass	Inf	20.58M	16.432M	20.67M	16.402M
5240MHz	Pass	Inf	20.64M	16.432M	20.61M	16.402M
5745MHz	Pass	500k	16.35M	17.001M	16.35M	16.792M
5785MHz	Pass	500k	16.35M	16.822M	16.35M	16.672M
5825MHz	Pass	500k	16.32M	16.972M	16.35M	16.732M
802.11n HT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5180MHz	Pass	Inf	21.03M	17.631M	21.06M	17.601M
5200MHz	Pass	Inf	21.21M	17.601M	21.03M	17.601M
5240MHz	Pass	Inf	21.42M	17.601M	21.3M	17.601M
5745MHz	Pass	500k	17.58M	18.321M	17.58M	18.141M
5785MHz	Pass	500k	17.58M	19.46M	17.58M	18.351M
5825MHz	Pass	500k	17.58M	18.381M	17.64M	18.171M
802.11n HT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5190MHz	Pass	Inf	40.98M	36.222M	40.56M	36.222M
5230MHz	Pass	Inf	40.62M	36.222M	40.26M	36.162M
5755MHz	Pass	500k	36.3M	46.657M	35.46M	41.139M
5795MHz	Pass	500k	35.88M	52.174M	36.24M	44.438M
802.11ac VHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5180MHz	Pass	Inf	21.42M	17.631M	21.12M	17.601M
5200MHz	Pass	Inf	21.21M	17.631M	21.15M	17.661M
5240MHz	Pass	Inf	21.06M	17.601M	21.33M	17.631M
5745MHz	Pass	500k	17.61M	18.051M	17.58M	17.901M
5785MHz	Pass	500k	17.58M	19.79M	17.58M	18.351M
5825MHz	Pass	500k	17.61M	18.051M	17.58M	17.901M
802.11ac VHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5190MHz	Pass	Inf	40.56M	36.222M	40.98M	36.282M
5230MHz	Pass	Inf	40.44M	36.222M	40.68M	36.282M
5755MHz	Pass	500k	35.64M	46.777M	35.34M	40.78M
5795MHz	Pass	500k	35.34M	51.034M	36.3M	42.339M
802.11ac VHT80_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5210MHz	Pass	Inf	81.72M	75.202M	81.48M	75.322M
5775MHz	Pass	500k	72.48M	75.802M	74.4M	75.682M
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5180MHz	Pass	Inf	21.09M	18.951M	21.27M	18.951M
5200MHz	Pass	Inf	21.69M	18.951M	21.63M	18.921M
5240MHz	Pass	Inf	21.93M	18.921M	21.6M	18.921M
5745MHz	Pass	500k	18.96M	19.31M	19.02M	19.25M
5785MHz	Pass	500k	19.02M	19.34M	19.11M	19.34M
5825MHz	Pass	500k	18.96M	19.34M	19.02M	19.22M
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5190MHz	Pass	Inf	41.16M	37.901M	41.4M	38.021M
5230MHz	Pass	Inf	41.1M	37.961M	41.28M	37.841M
5755MHz	Pass	500k	37.86M	38.441M	37.92M	38.381M
5795MHz	Pass	500k	37.74M	38.441M	36.78M	38.441M
802.11ax HEW80_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5210MHz	Pass	Inf	82.56M	77.121M	81.84M	77.121M
5775MHz	Pass	500k	77.76M	77.601M	75.48M	77.481M

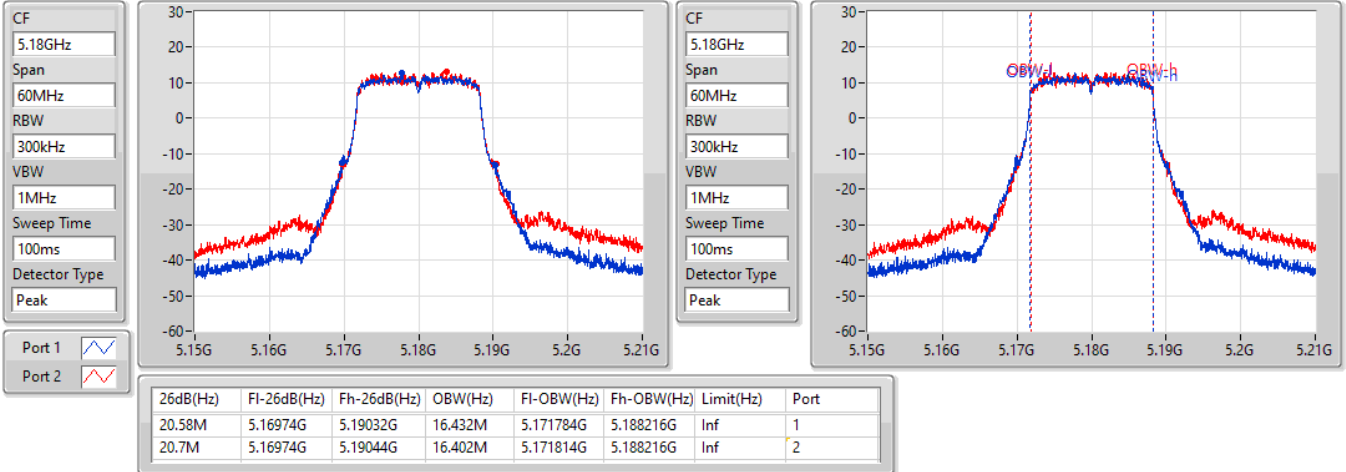
Port X-N dB = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band
Port X-OBW = Port X 99% occupied bandwidth

802.11a_Nss1,(6Mbps)_2TX

EBW

5180MHz

02/09/2022

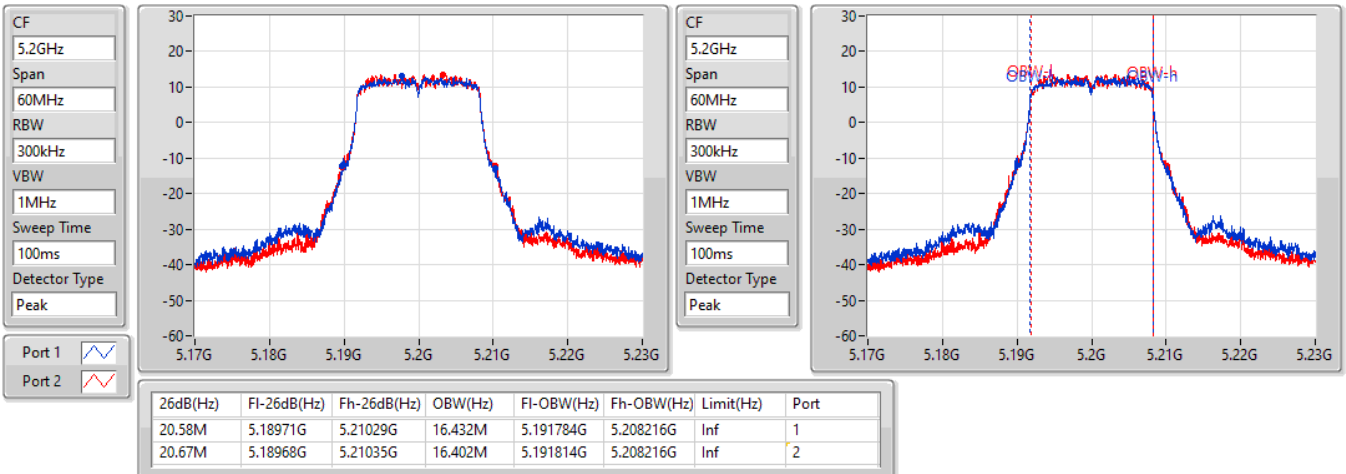


802.11a_Nss1,(6Mbps)_2TX

EBW

5200MHz

02/09/2022

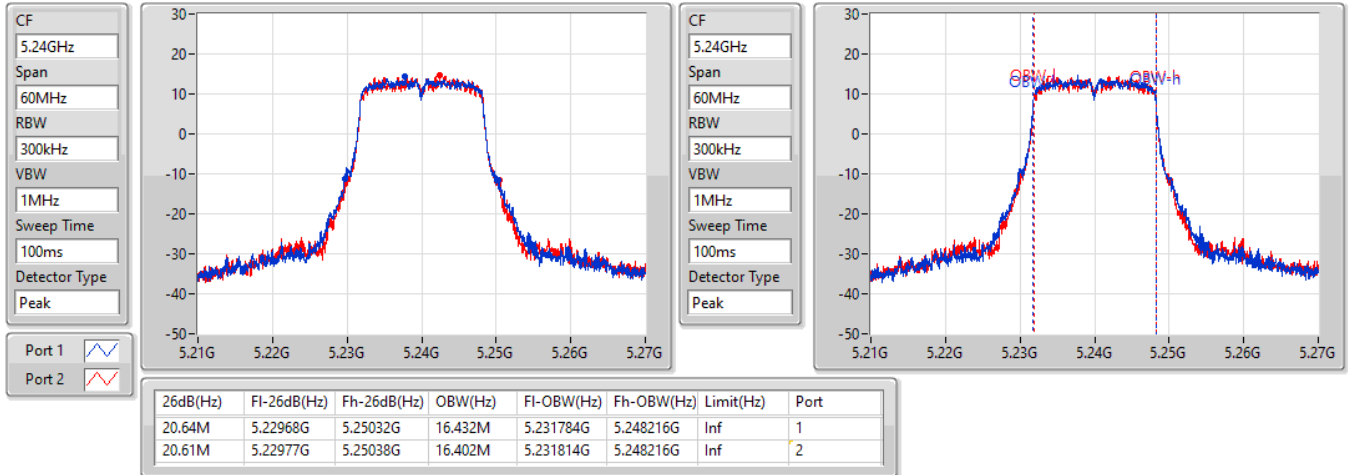


802.11a_Nss1,(6Mbps)_2TX

EBW

5240MHz

02/09/2022

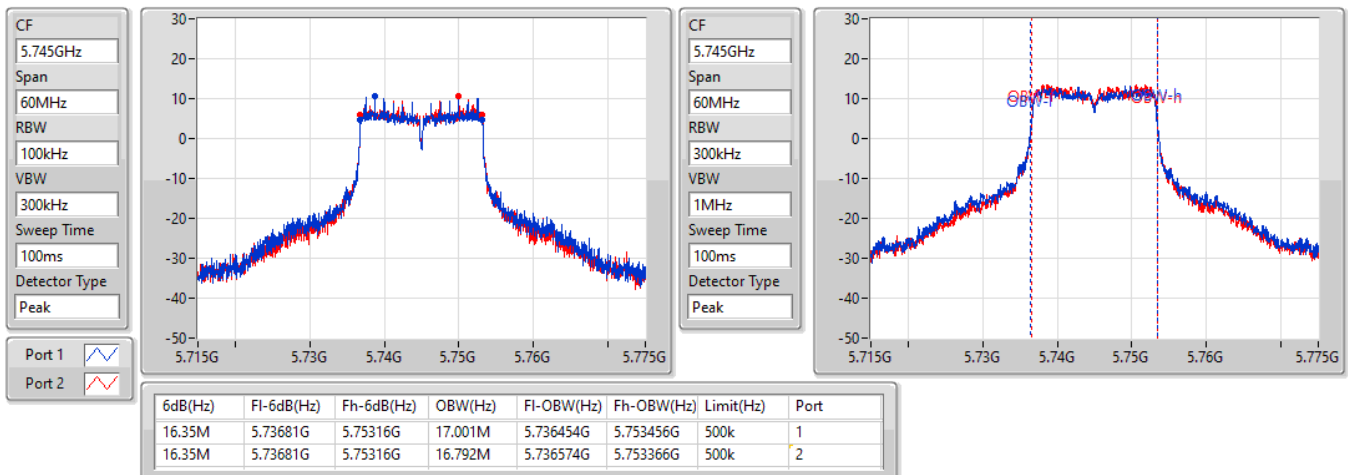


802.11a_Nss1,(6Mbps)_2TX

EBW

5745MHz

02/09/2022

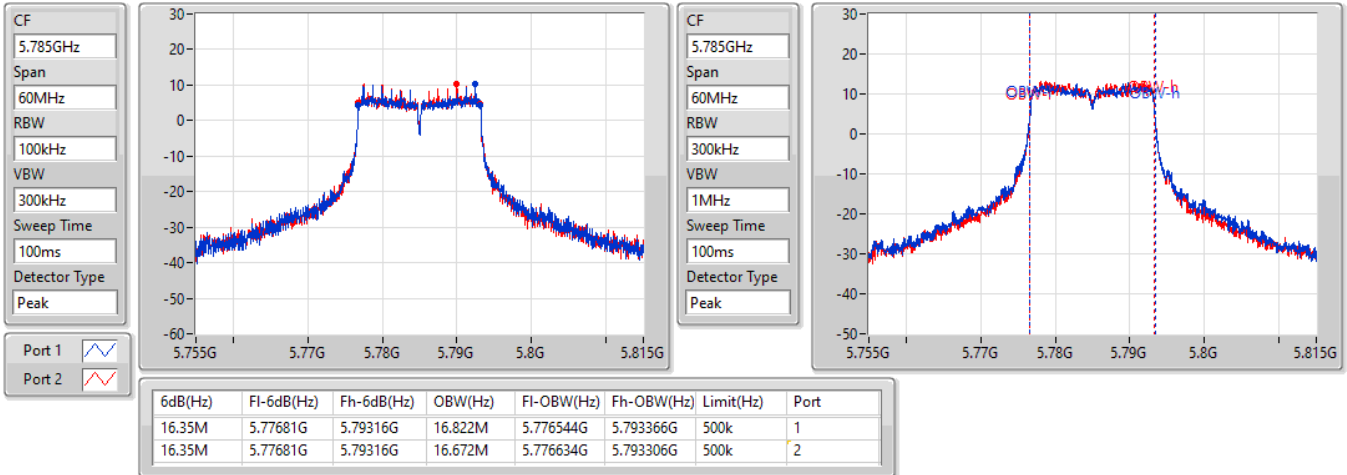


802.11a_Nss1,(6Mbps)_2TX

EBW

5785MHz

02/09/2022

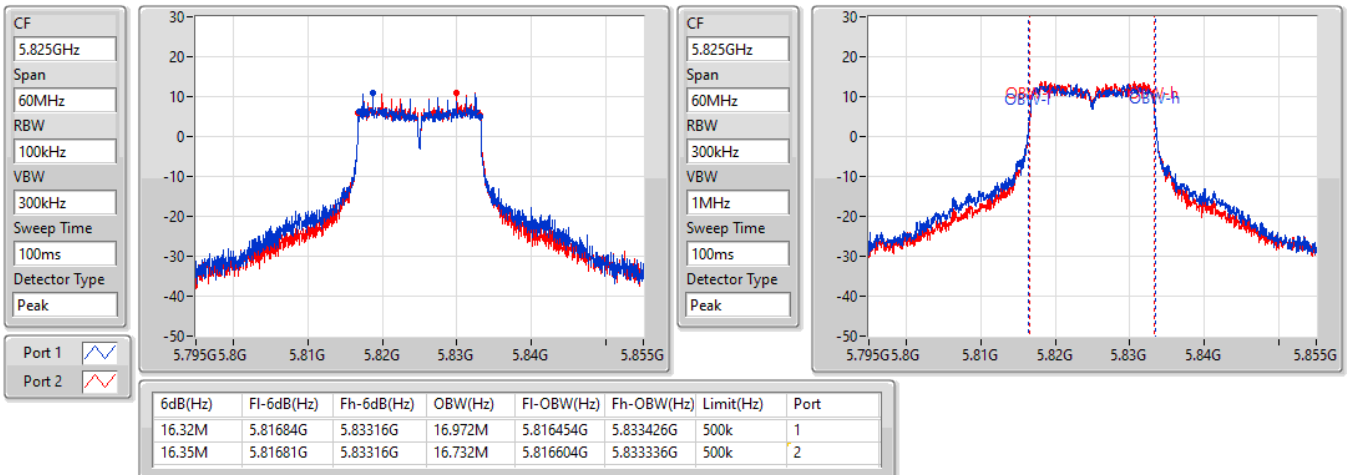


802.11a_Nss1,(6Mbps)_2TX

EBW

5825MHz

02/09/2022

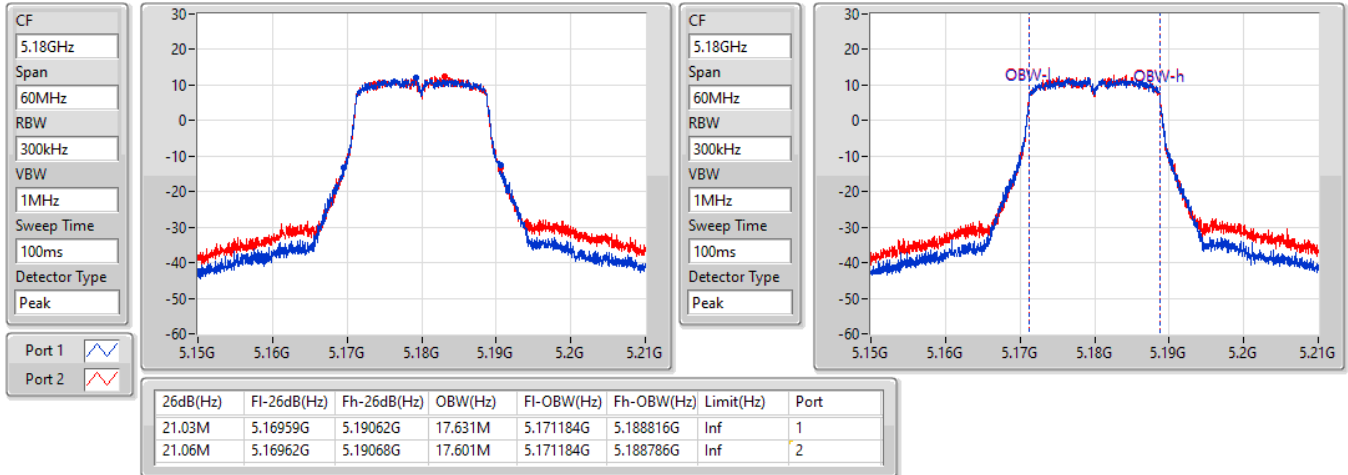


802.11n HT20_Nss1,(MCS0)_2TX

EBW

5180MHz

02/09/2022

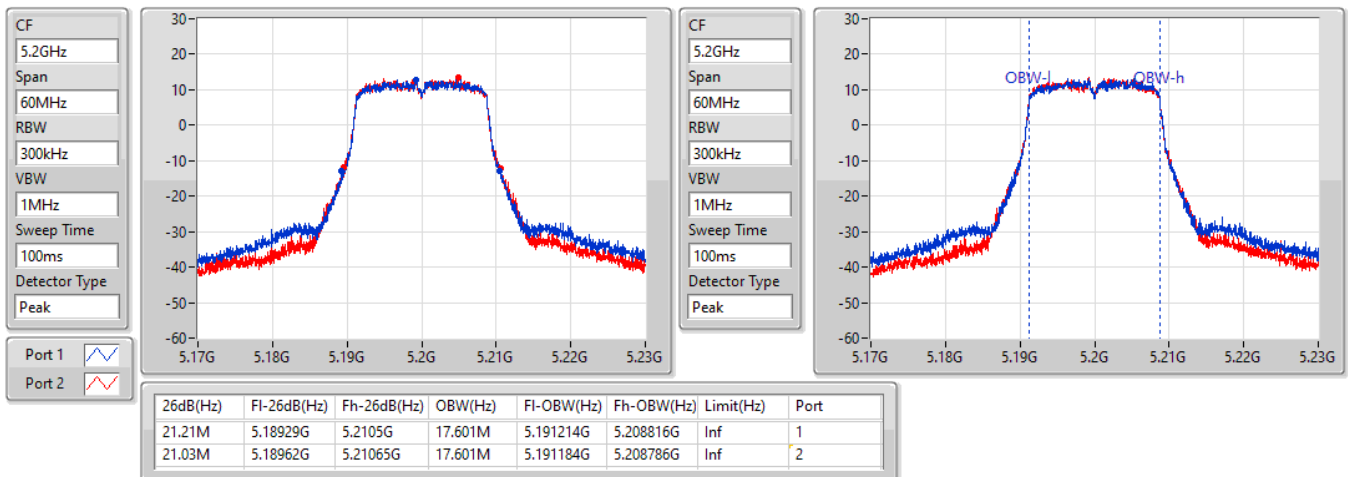


802.11n HT20_Nss1,(MCS0)_2TX

EBW

5200MHz

02/09/2022

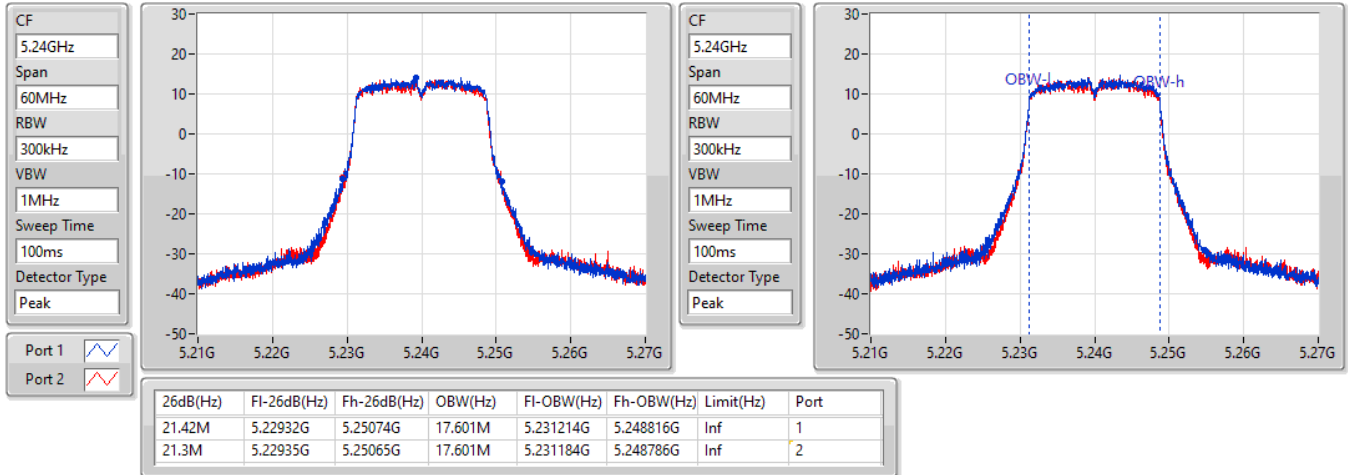


802.11n HT20_Nss1,(MCS0)_2TX

EBW

5240MHz

02/09/2022

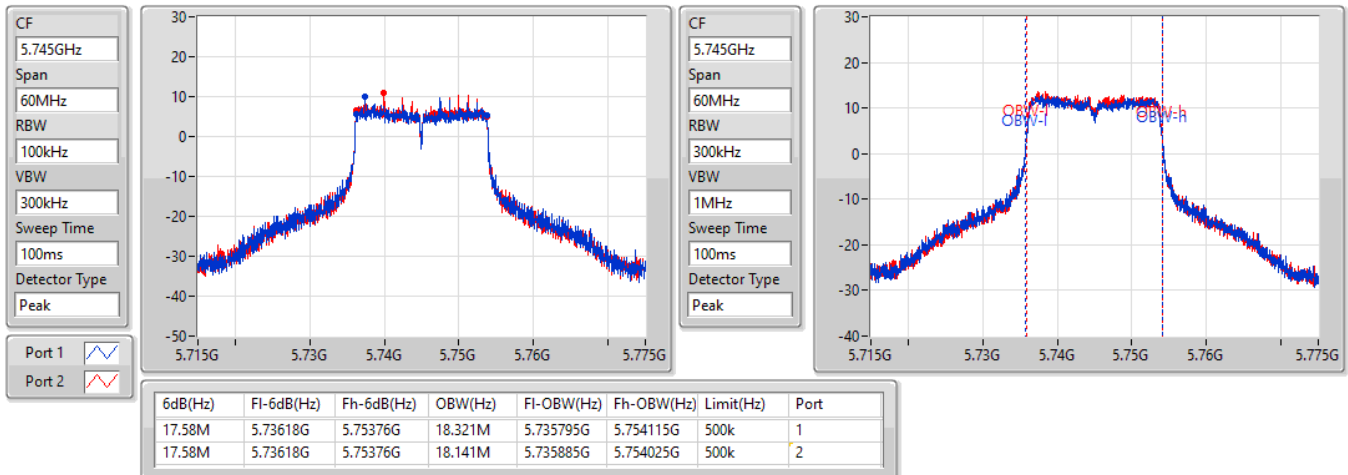


802.11n HT20_Nss1,(MCS0)_2TX

EBW

5745MHz

02/09/2022

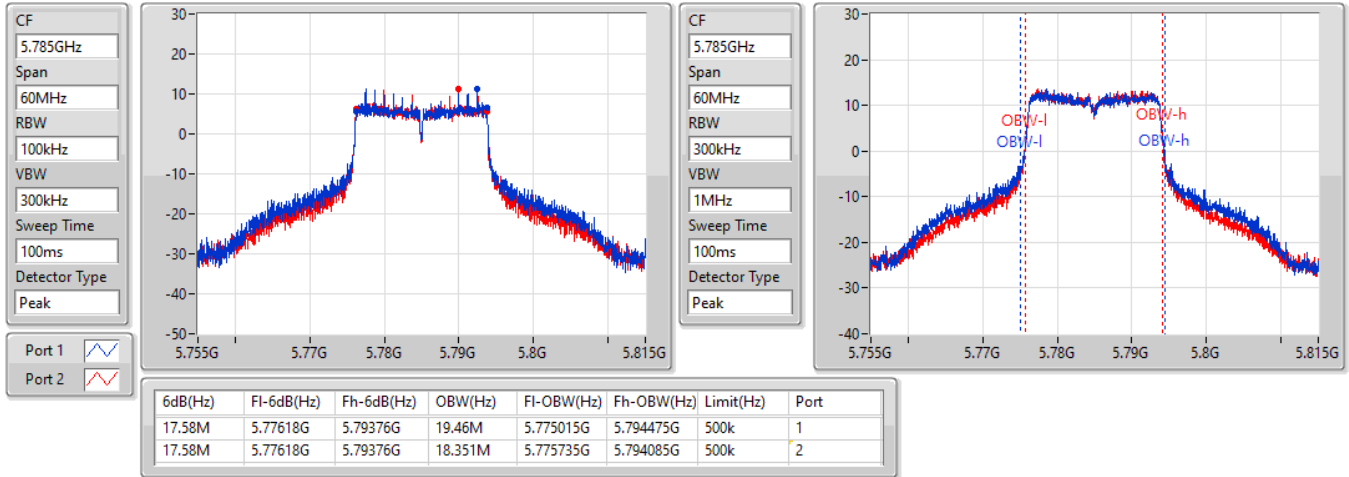


802.11n HT20_Nss1,(MCS0)_2TX

EBW

5785MHz

02/09/2022

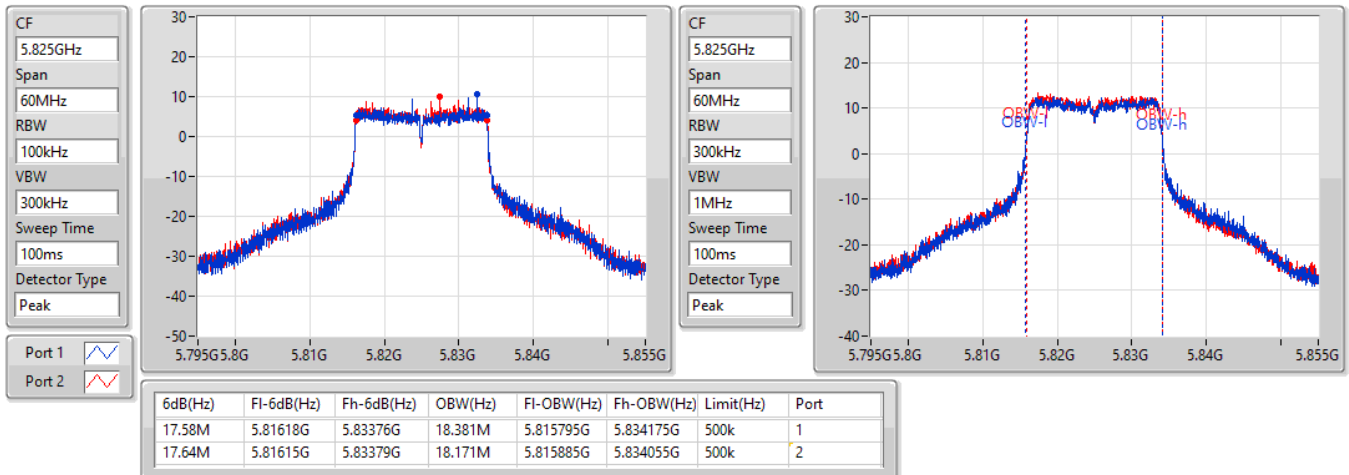


802.11n HT20_Nss1,(MCS0)_2TX

EBW

5825MHz

02/09/2022

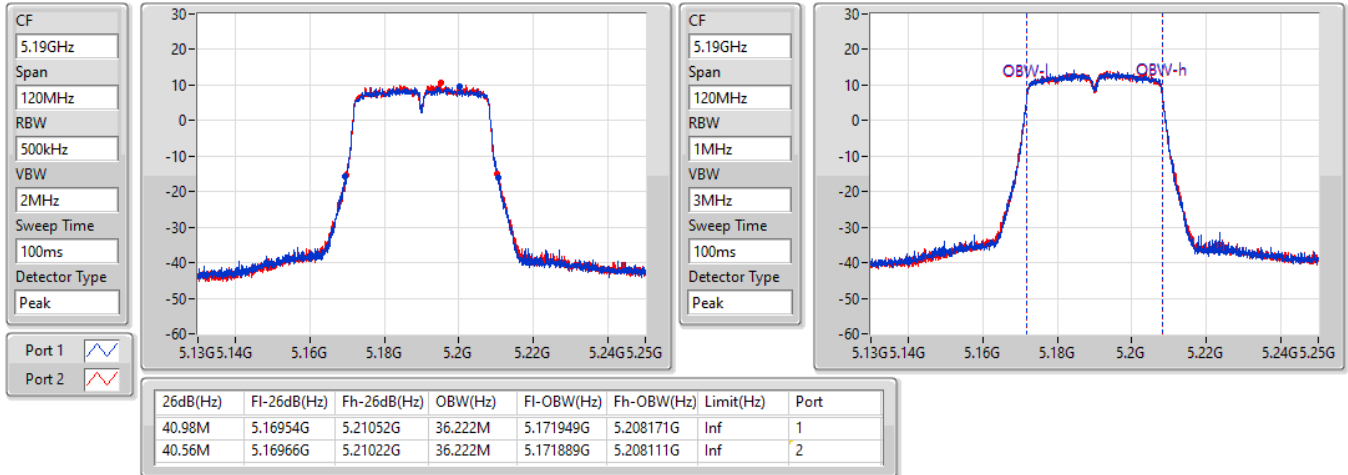


802.11n HT40_Nss1,(MCS0)_2TX

EBW

5190MHz

02/09/2022

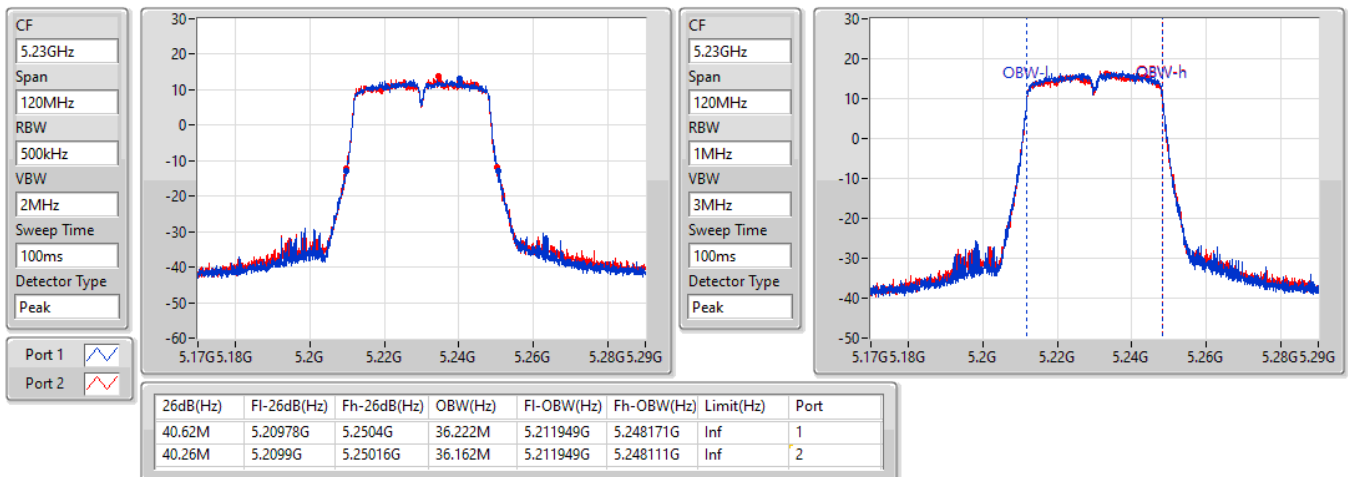


802.11n HT40_Nss1,(MCS0)_2TX

EBW

5230MHz

02/09/2022

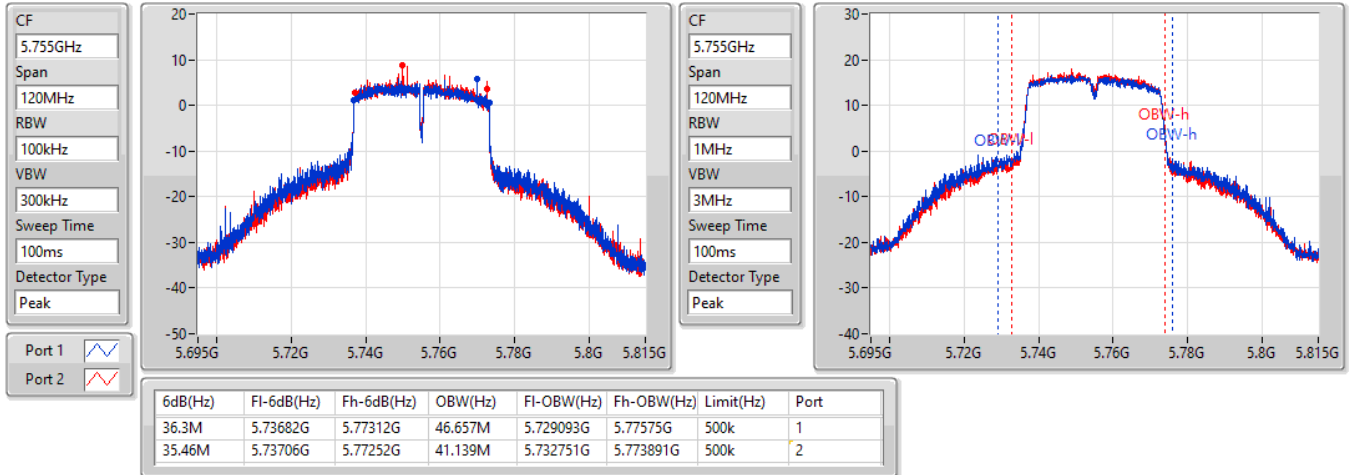


802.11n HT40_Nss1,(MCS0)_2TX

EBW

5755MHz

02/09/2022

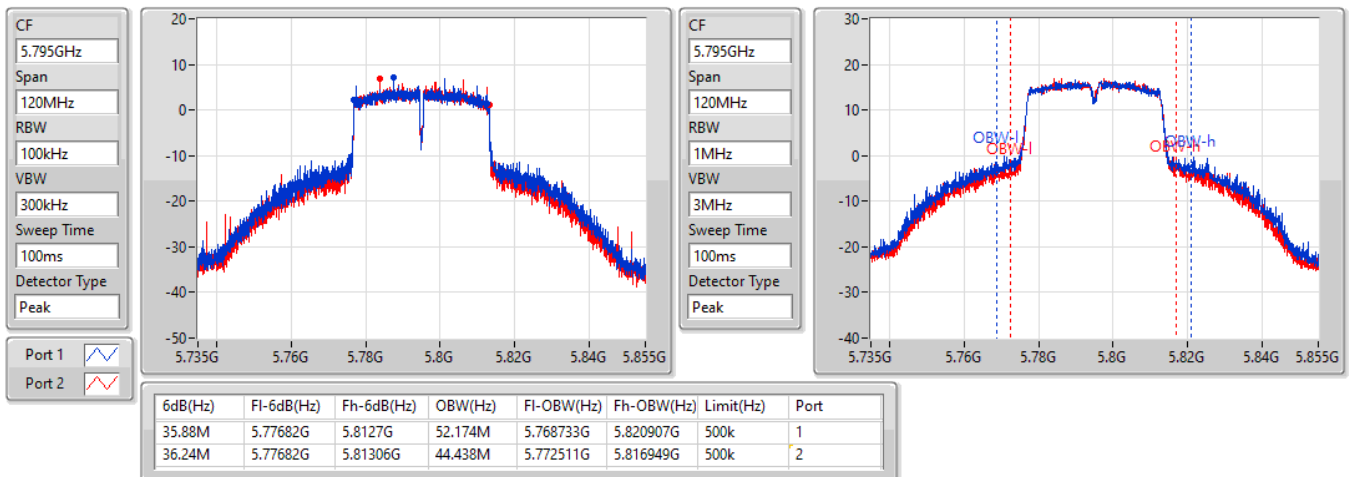


802.11n HT40_Nss1,(MCS0)_2TX

EBW

5795MHz

02/09/2022

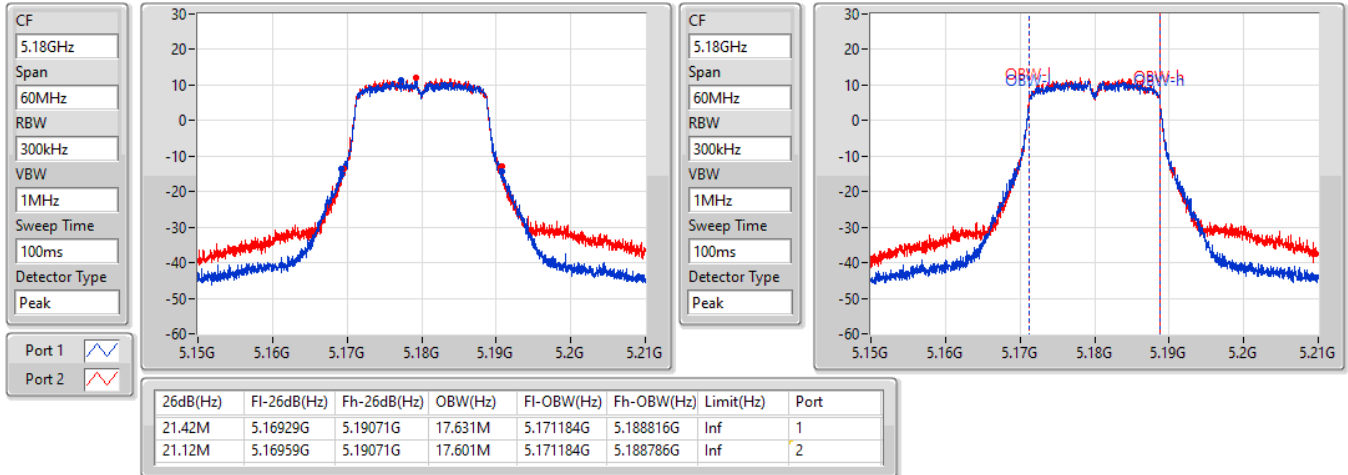


802.11ac VHT20_Nss1,(MCS0)_2TX

EBW

5180MHz

02/09/2022

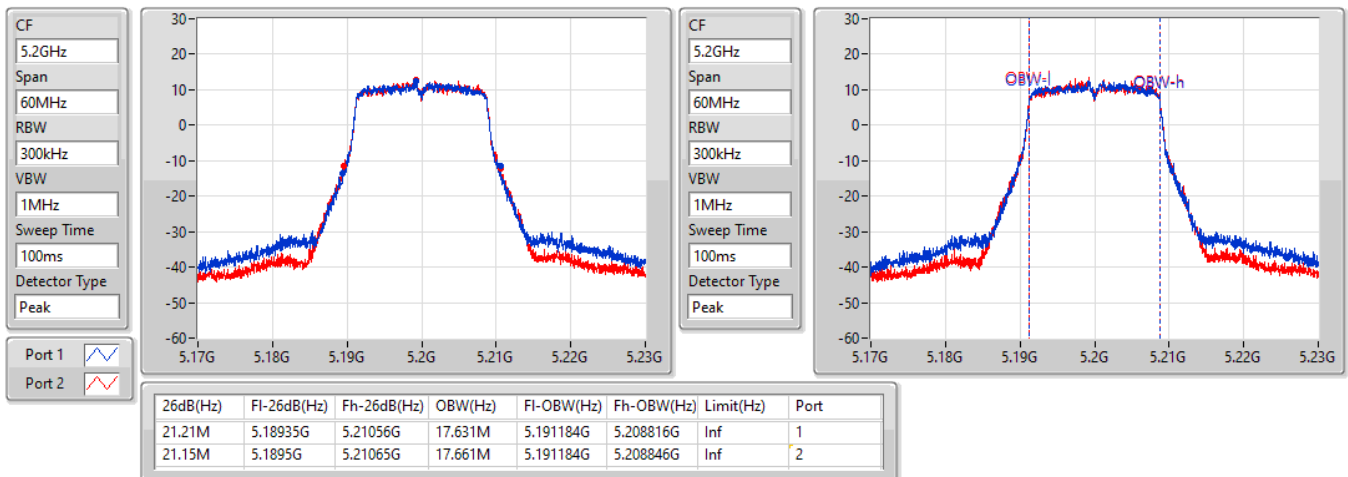


802.11ac VHT20_Nss1,(MCS0)_2TX

EBW

5200MHz

02/09/2022

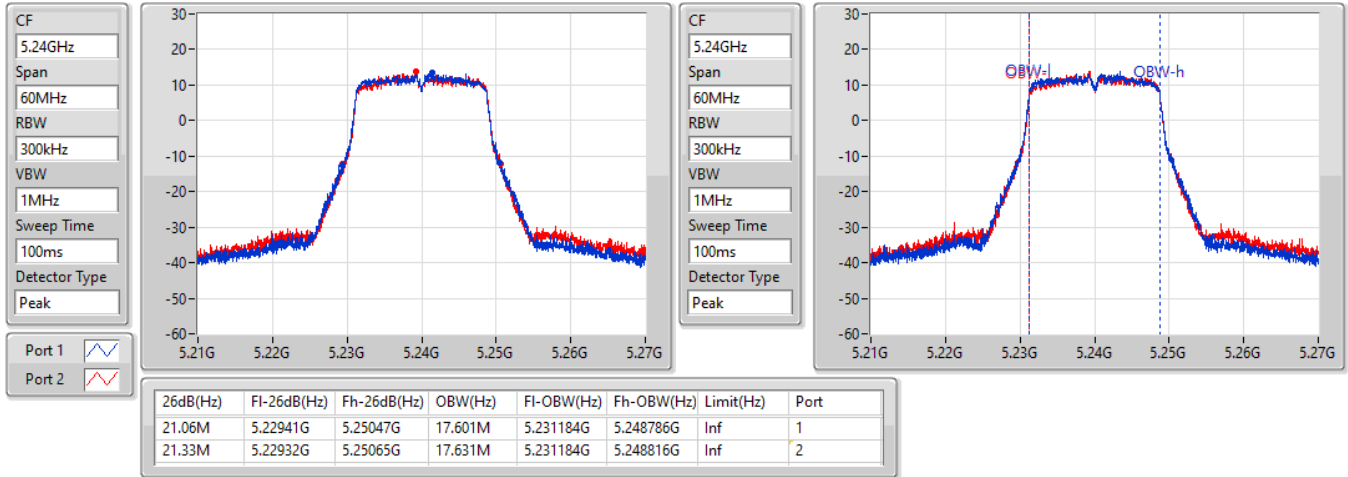


802.11ac VHT20_Nss1,(MCS0)_2TX

EBW

5240MHz

02/09/2022

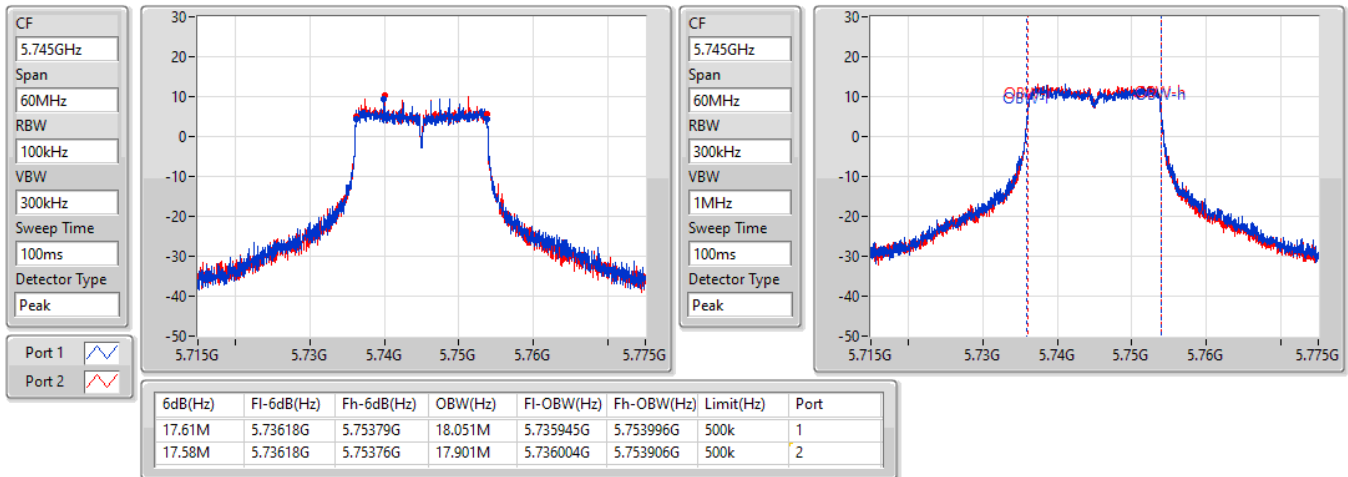


802.11ac VHT20_Nss1,(MCS0)_2TX

EBW

5745MHz

02/09/2022

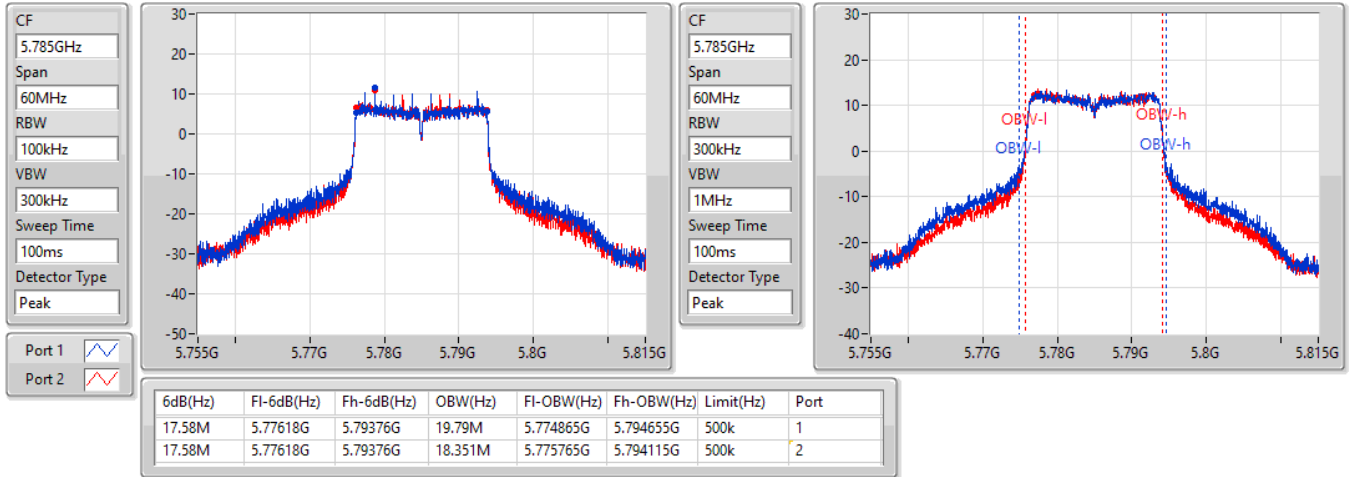


802.11ac VHT20_Nss1,(MCS0)_2TX

EBW

5785MHz

02/09/2022

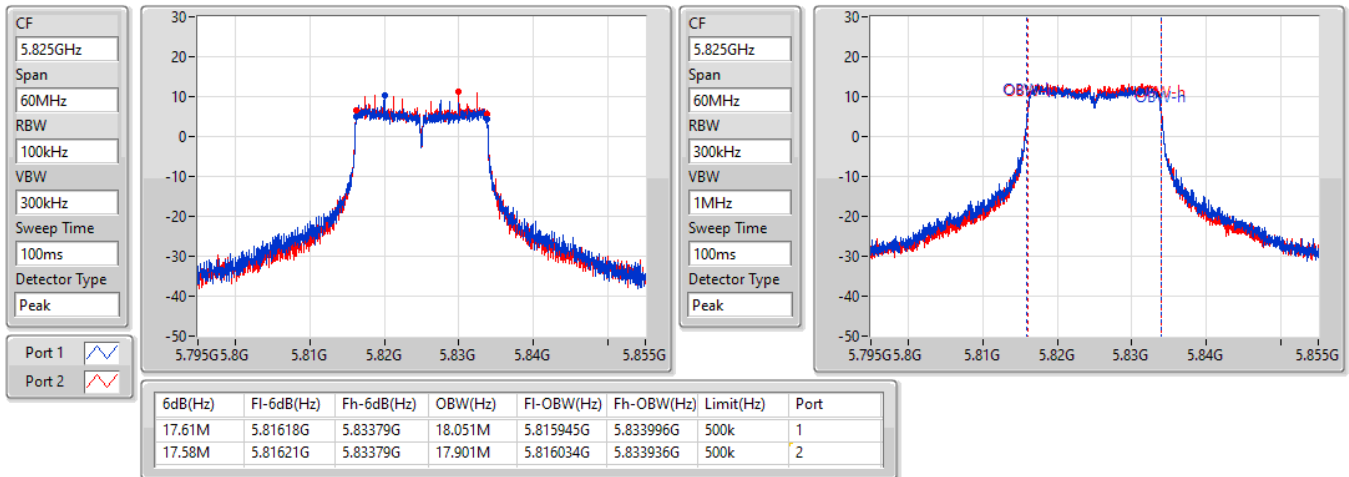


802.11ac VHT20_Nss1,(MCS0)_2TX

EBW

5825MHz

02/09/2022

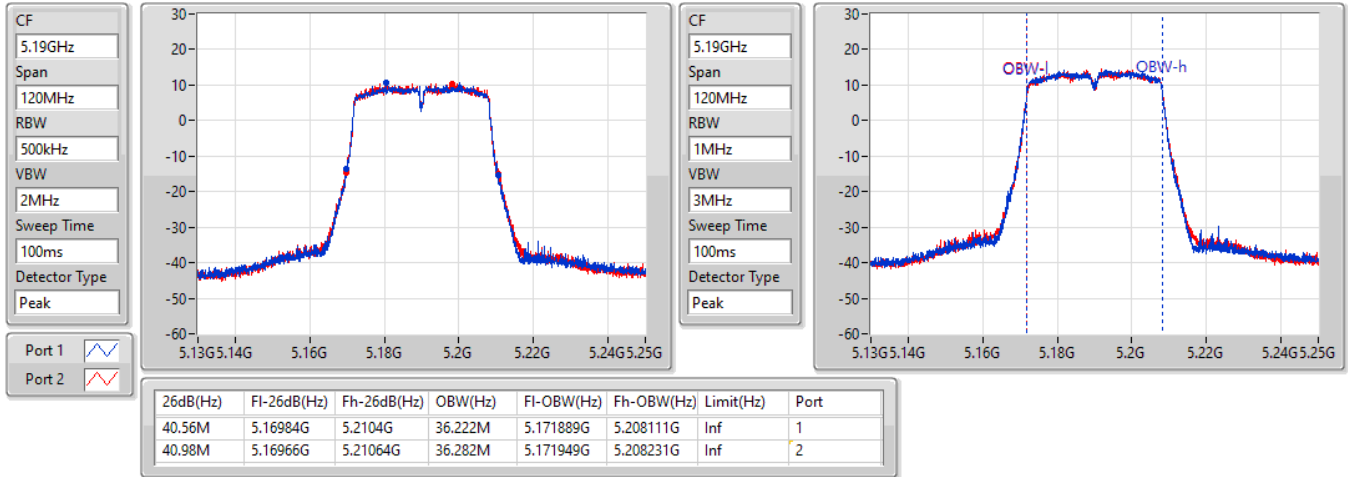


802.11ac VHT40_Nss1,(MCS0)_2TX

EBW

5190MHz

02/09/2022

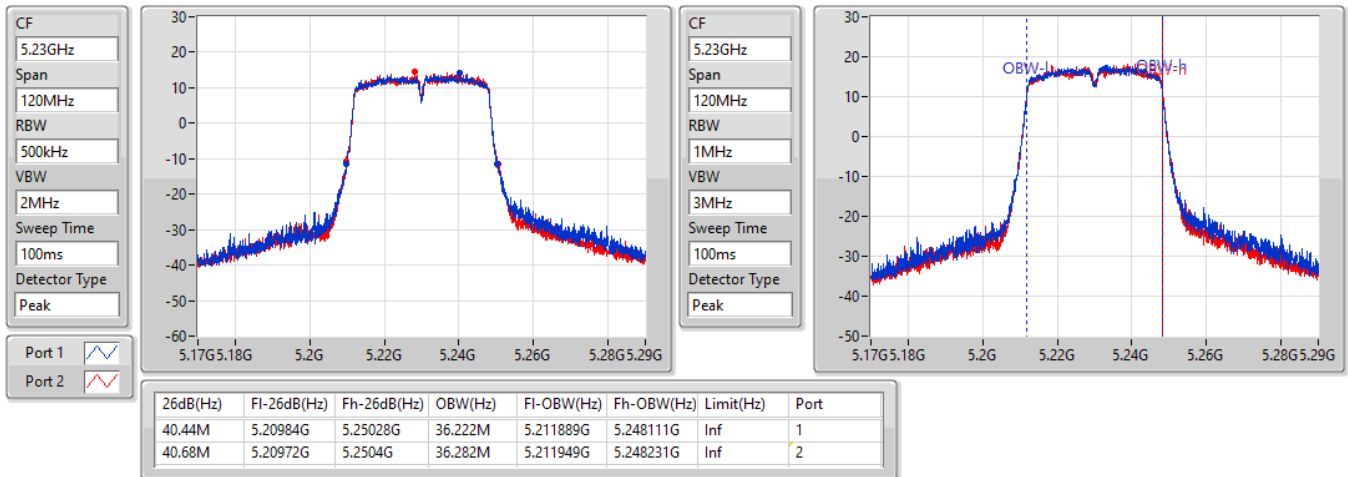


802.11ac VHT40_Nss1,(MCS0)_2TX

EBW

5230MHz

02/09/2022

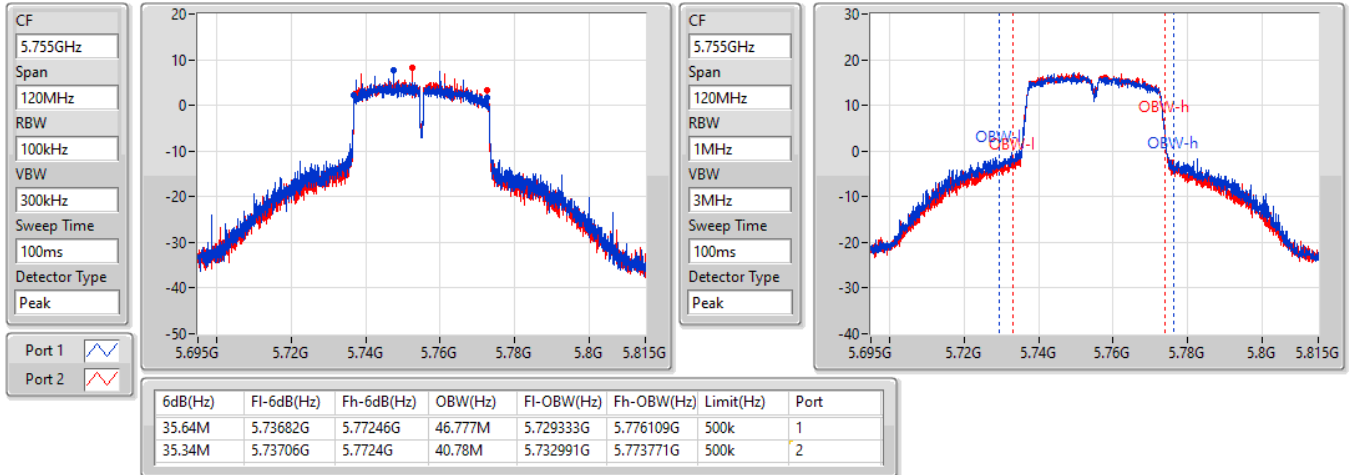


802.11ac VHT40_Nss1,(MCS0)_2TX

EBW

5755MHz

02/09/2022

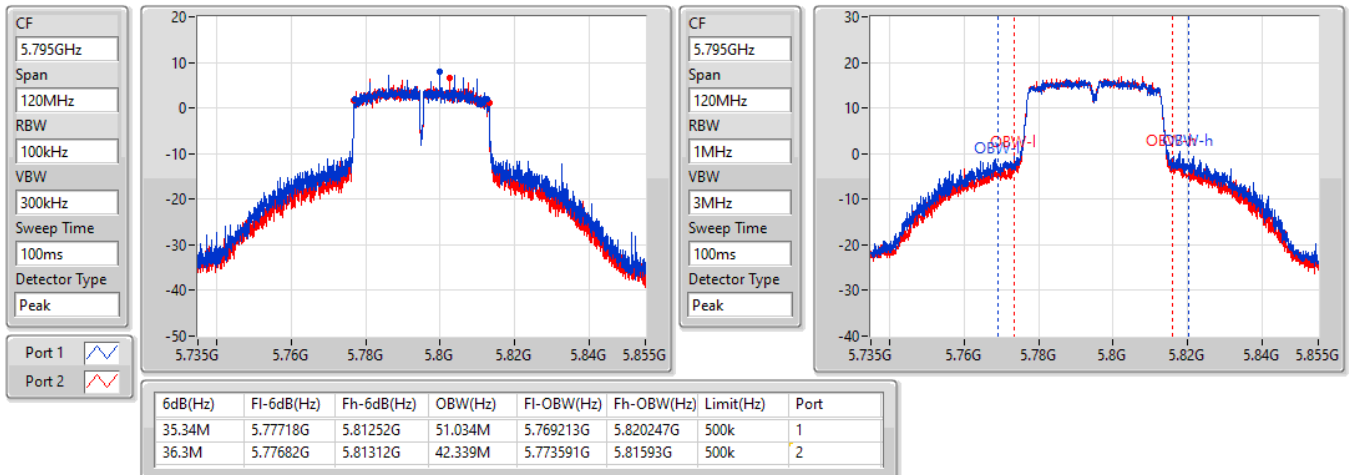


802.11ac VHT40_Nss1,(MCS0)_2TX

EBW

5795MHz

02/09/2022

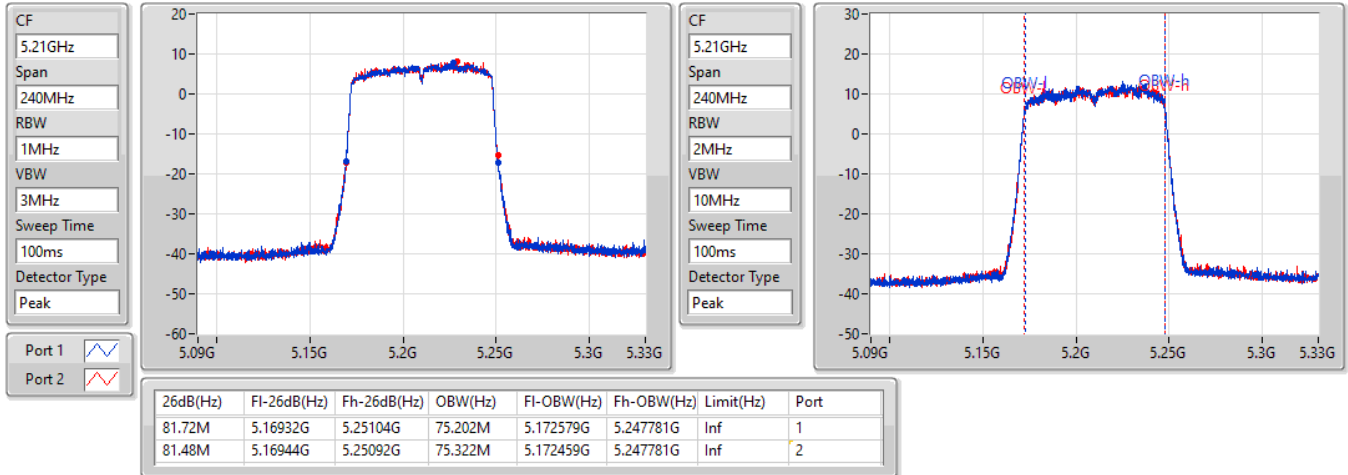


802.11ac VHT80_Nss1,(MCS0)_2TX

EBW

5210MHz

02/09/2022

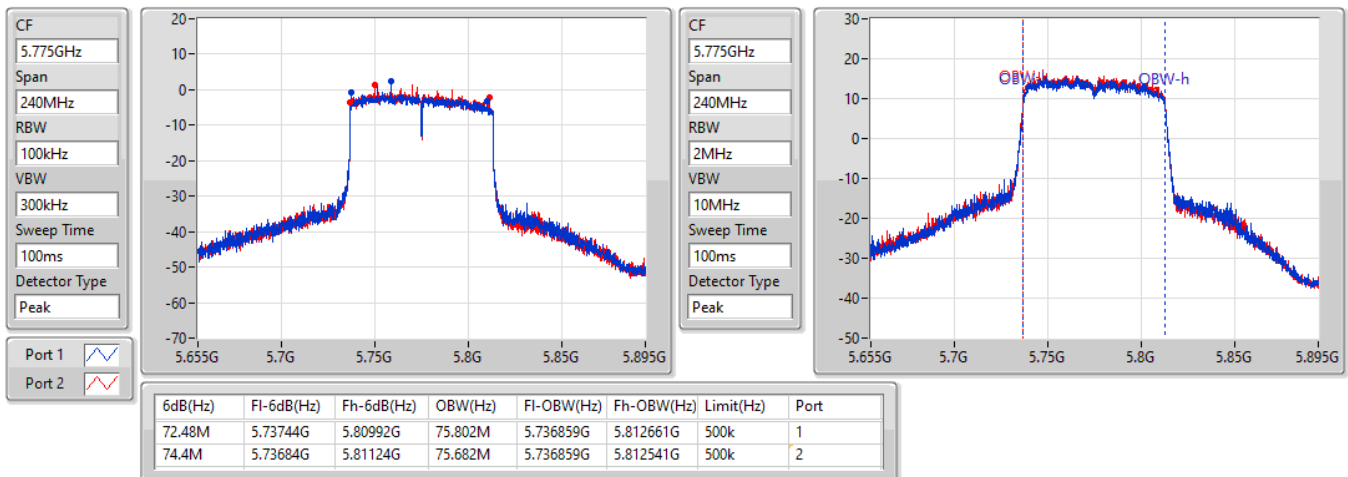


802.11ac VHT80_Nss1,(MCS0)_2TX

EBW

5775MHz

02/09/2022

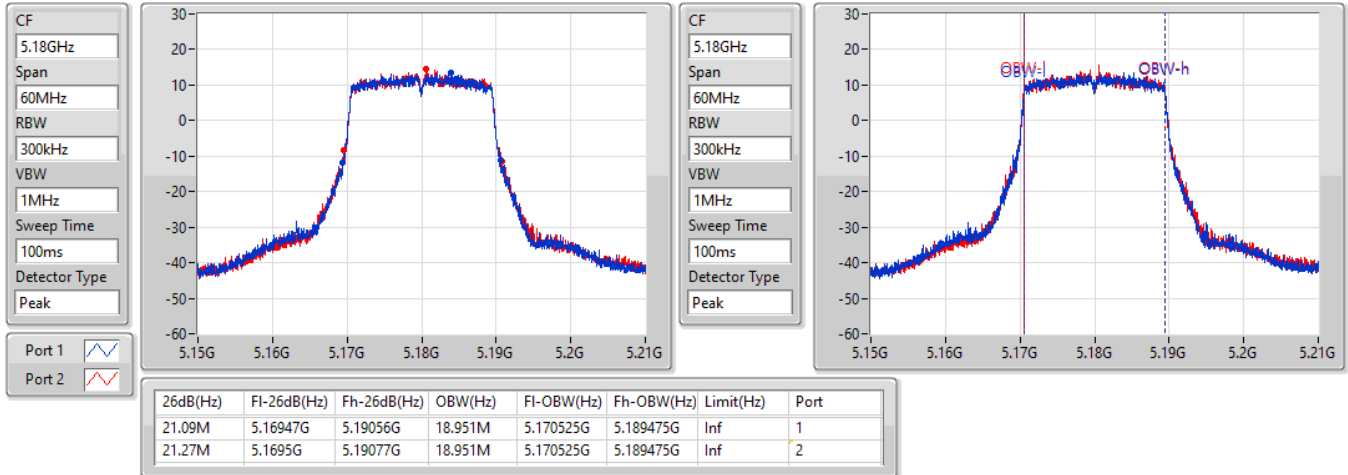


802.11ax HEW20_Nss1,(MCS0)_2TX

EBW

5180MHz

02/09/2022

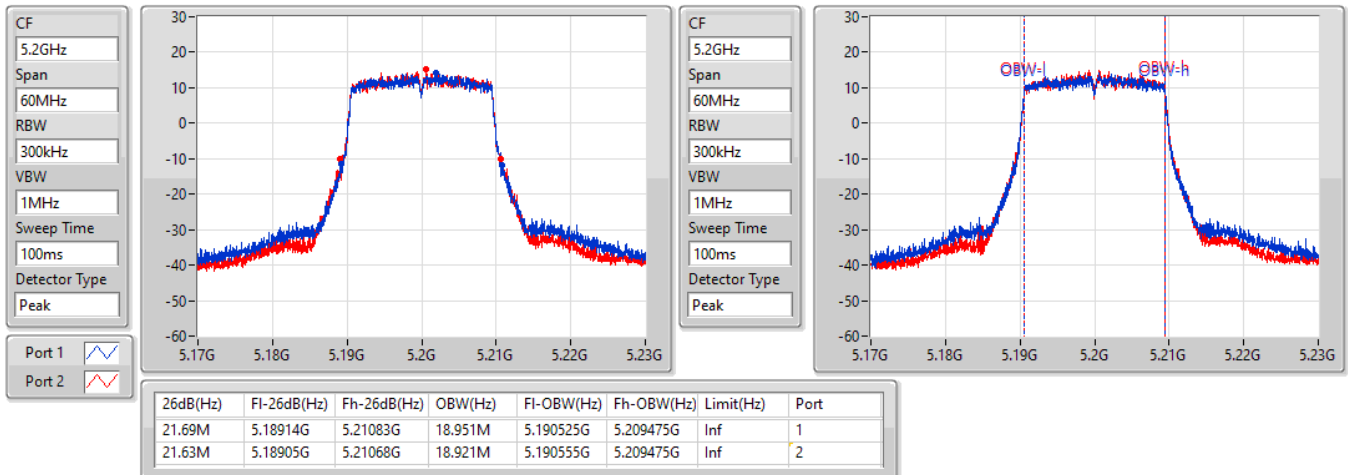


802.11ax HEW20_Nss1,(MCS0)_2TX

EBW

5200MHz

02/09/2022

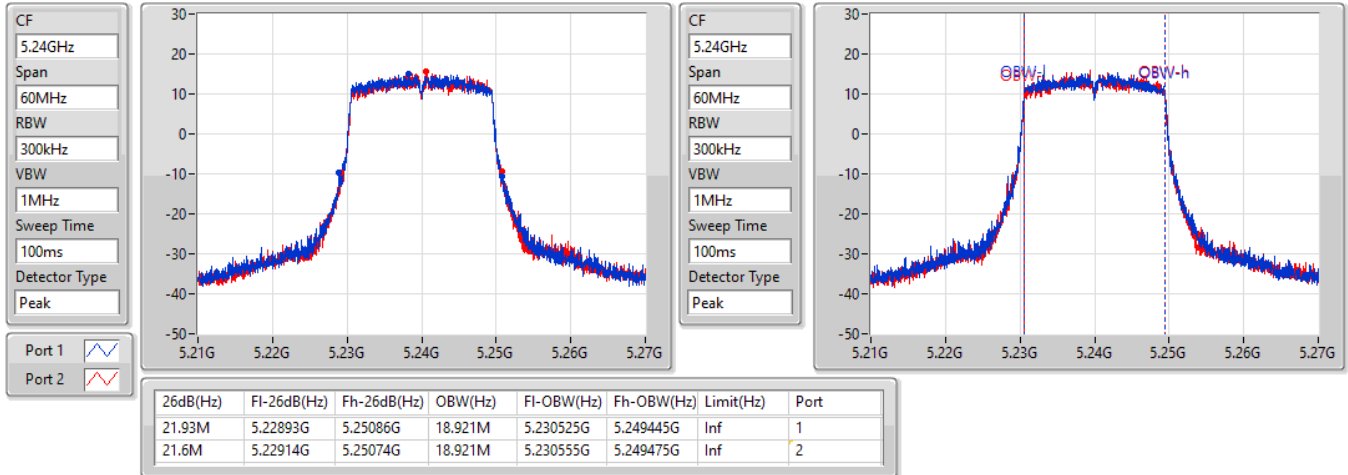


802.11ax HEW20_Nss1,(MCS0)_2TX

EBW

5240MHz

02/09/2022

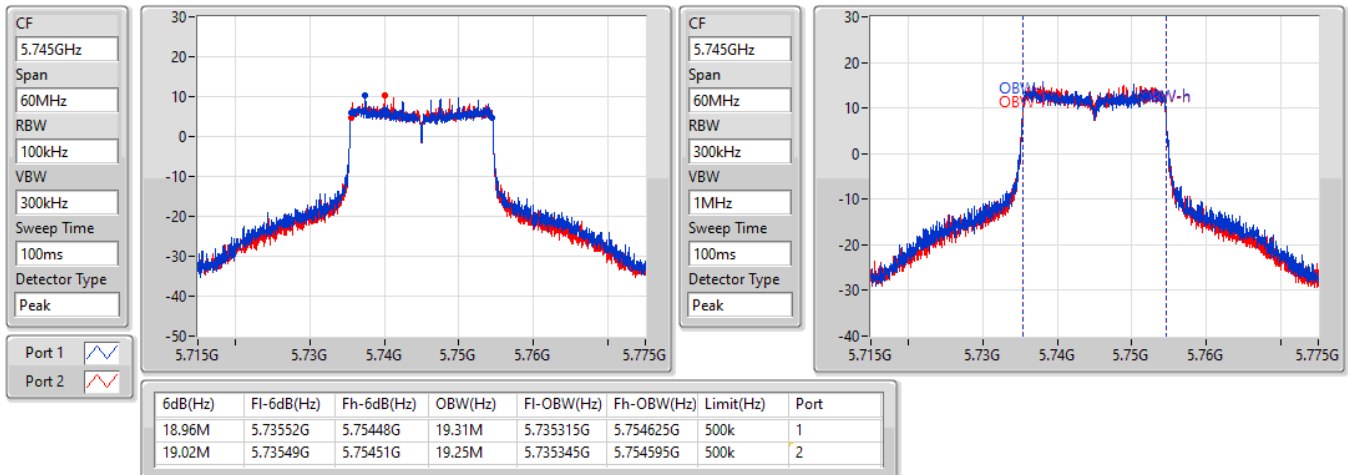


802.11ax HEW20_Nss1,(MCS0)_2TX

EBW

5745MHz

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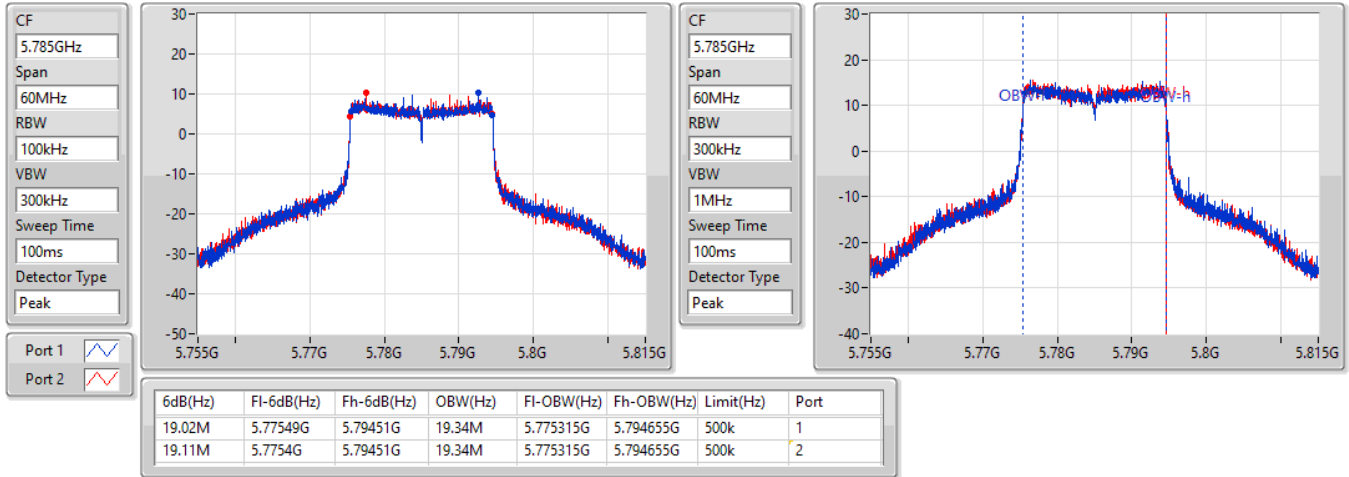


802.11ax HEW20_Nss1,(MCS0)_2TX

EBW

5785MHz

02/09/2022

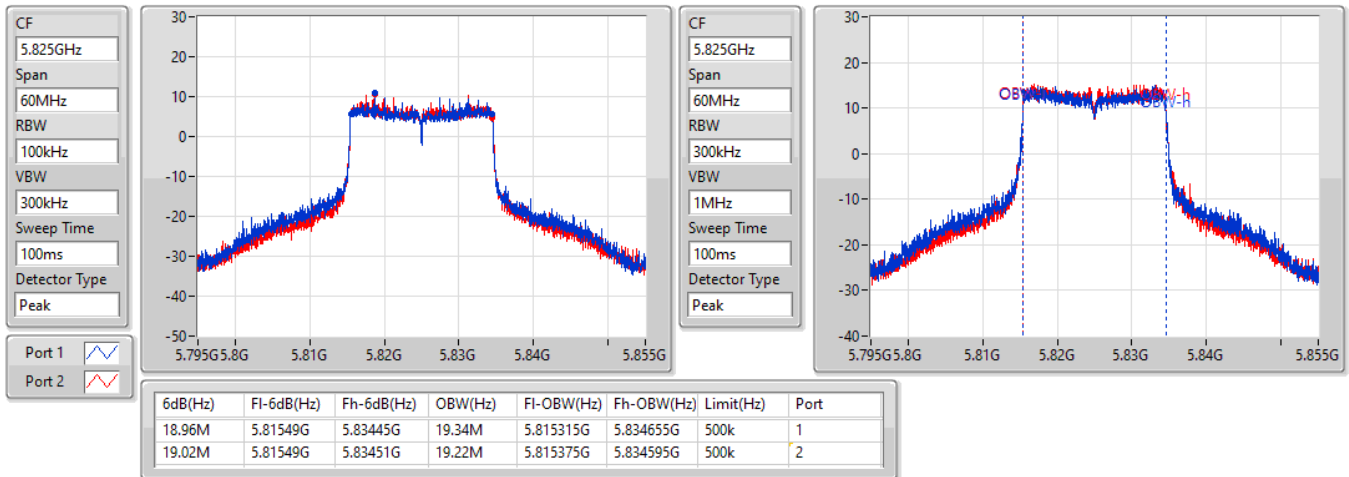


802.11ax HEW20_Nss1,(MCS0)_2TX

EBW

5825MHz

02/09/2022

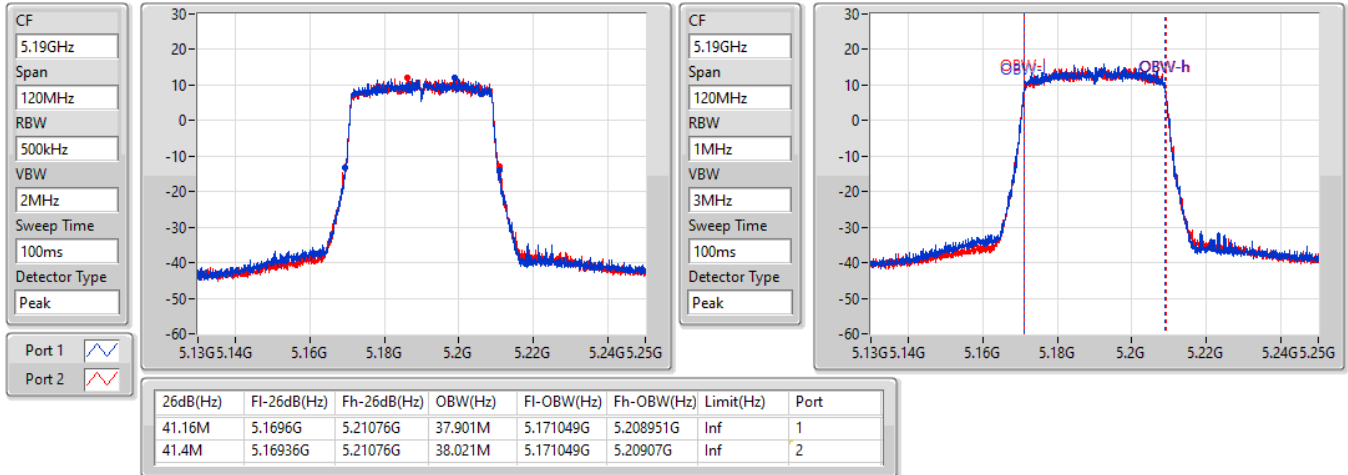


802.11ax HEW40_Nss1,(MCS0)_2TX

EBW

5190MHz

02/09/2022

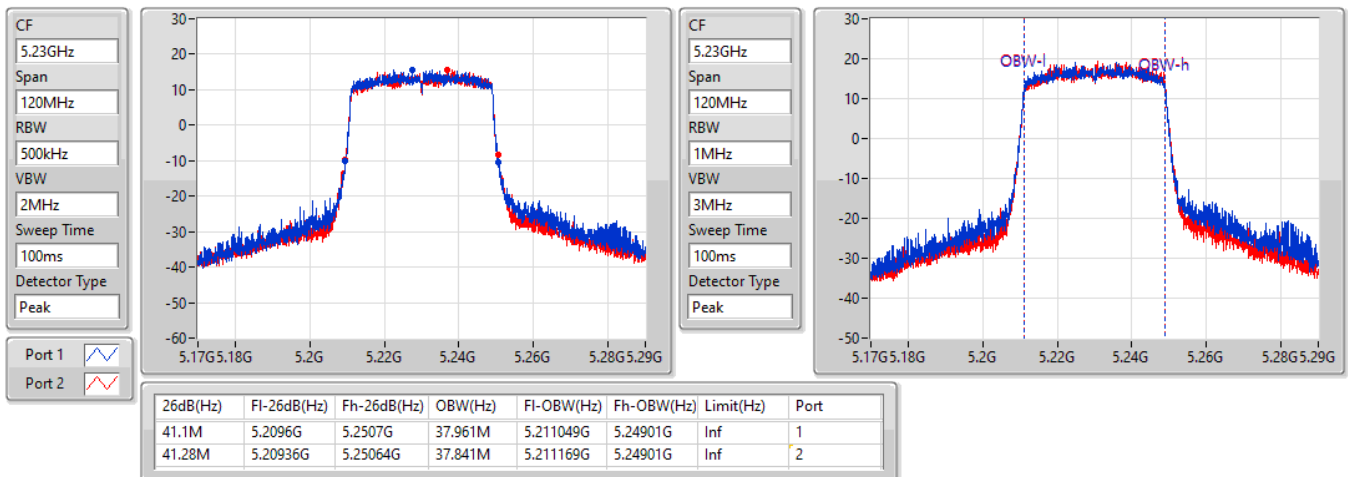


802.11ax HEW40_Nss1,(MCS0)_2TX

EBW

5230MHz

02/09/2022

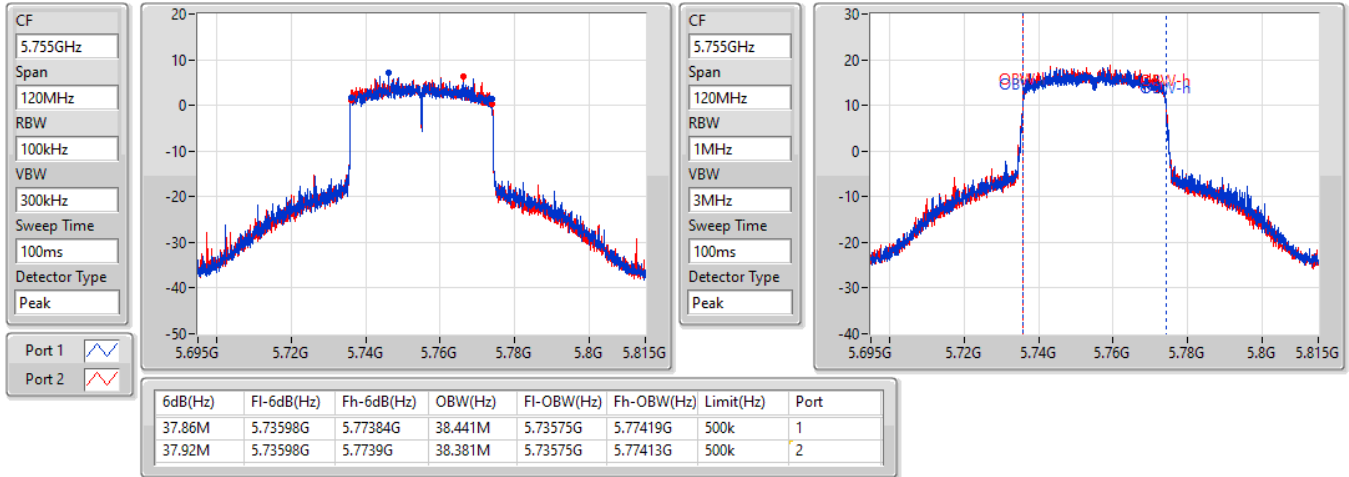


802.11ax HEW40_Nss1,(MCS0)_2TX

EBW

5755MHz

02/09/2022

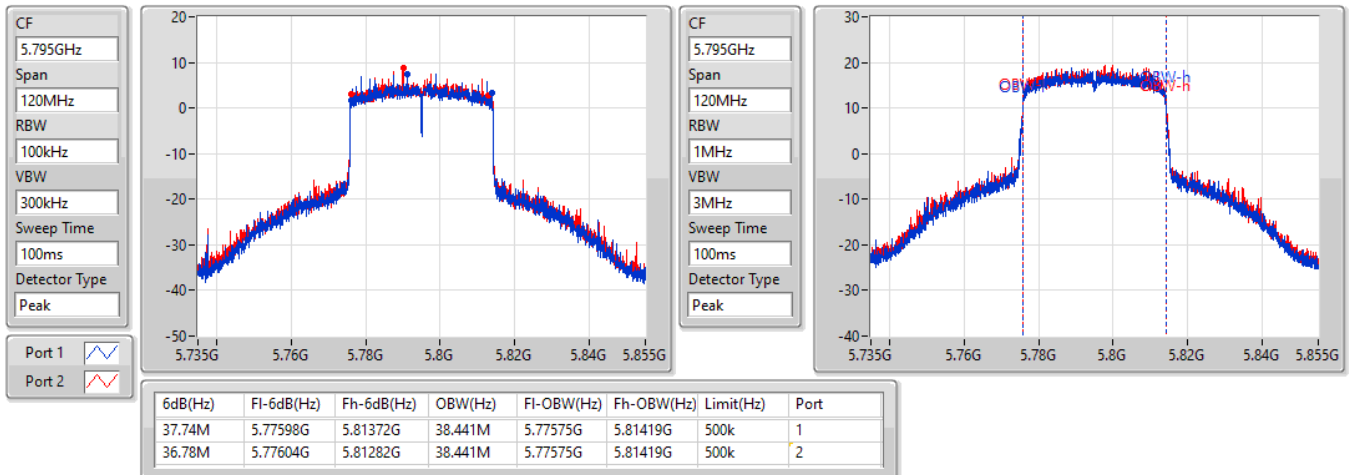


802.11ax HEW40_Nss1,(MCS0)_2TX

EBW

5795MHz

02/09/2022

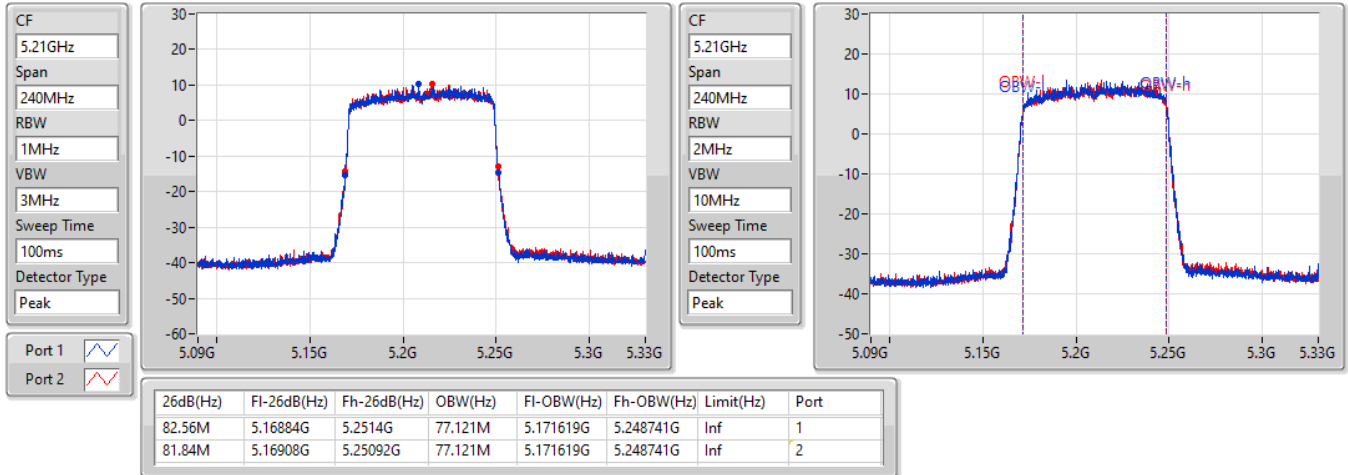


802.11ax HEW80_Nss1,(MCS0)_2TX

EBW

5210MHz

02/09/2022

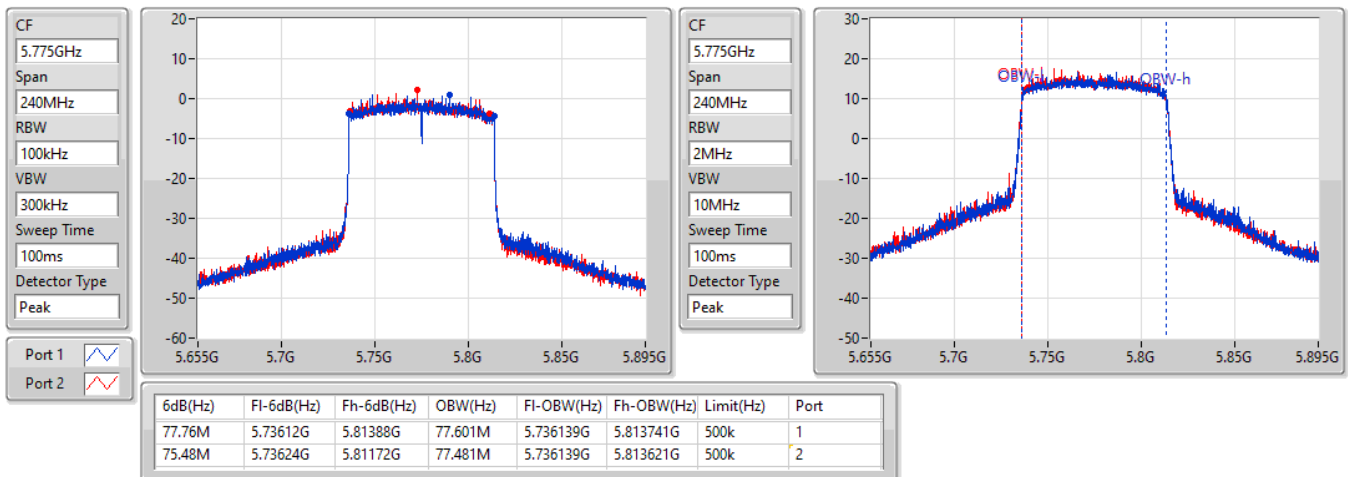


802.11ax HEW80_Nss1,(MCS0)_2TX

EBW

5775MHz

02/09/2022



Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.15-5.25GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	20.61M	16.672M	16M7D1D	20.07M	16.582M
802.11n HT20_Nss1,(MCS0)_2TX	22.05M	17.841M	17M8D1D	21.3M	17.781M
802.11n HT40_Nss1,(MCS0)_2TX	40.14M	36.222M	36M2D1D	39.66M	36.102M
802.11ac VHT20_Nss1,(MCS0)_2TX	21.81M	17.871M	17M9D1D	21.33M	17.781M
802.11ac VHT40_Nss1,(MCS0)_2TX	40.2M	36.222M	36M2D1D	39.6M	36.102M
802.11ac VHT80_Nss1,(MCS0)_2TX	81.96M	75.322M	75M3D1D	81.6M	75.322M
802.11ax HEW20_Nss1,(MCS0)_2TX	22.14M	19.13M	19M1D1D	21.72M	19.1M
802.11ax HEW40_Nss1,(MCS0)_2TX	40.68M	37.961M	38M0D1D	40.32M	37.721M
802.11ax HEW80_Nss1,(MCS0)_2TX	82.2M	77.241M	77M2D1D	81.96M	77.241M
5.725-5.85GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	16.35M	32.834M	32M8D1D	16.32M	16.732M
802.11n HT20_Nss1,(MCS0)_2TX	17.64M	18.051M	18M1D1D	17.58M	17.871M
802.11n HT40_Nss1,(MCS0)_2TX	36.06M	36.762M	36M8D1D	35.4M	36.582M
802.11ac VHT20_Nss1,(MCS0)_2TX	17.58M	18.081M	18M1D1D	17.55M	17.901M
802.11ac VHT40_Nss1,(MCS0)_2TX	35.64M	36.822M	36M8D1D	34.68M	36.642M
802.11ac VHT80_Nss1,(MCS0)_2TX	72.6M	75.442M	75M4D1D	70.32M	75.442M
802.11ax HEW20_Nss1,(MCS0)_2TX	19.02M	19.37M	19M4D1D	18.99M	19.22M
802.11ax HEW40_Nss1,(MCS0)_2TX	37.74M	38.381M	38M4D1D	36.54M	38.201M
802.11ax HEW80_Nss1,(MCS0)_2TX	77.16M	77.601M	77M6D1D	76.92M	77.601M

Max-N dB = Maximum 6dB down bandwidth for 5.725-5.85GHz band / Maximum 26dB down bandwidth for other band;
 Max-OBW = Maximum 99% occupied bandwidth;
 Min-N dB = Minimum 6dB down bandwidth for 5.725-5.85GHz band / Maximum 26dB down bandwidth for other band;
 Min-OBW = Minimum 99% occupied bandwidth

Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
5180MHz	Pass	Inf	20.49M	16.672M	20.55M	16.612M
5200MHz	Pass	Inf	20.61M	16.672M	20.37M	16.612M
5240MHz	Pass	Inf	20.55M	16.642M	20.07M	16.582M
5745MHz	Pass	500k	16.32M	32.834M	16.35M	16.942M
5785MHz	Pass	500k	16.35M	18.111M	16.35M	16.942M
5825MHz	Pass	500k	16.35M	17.391M	16.35M	16.732M
802.11n HT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5180MHz	Pass	Inf	21.57M	17.781M	21.87M	17.841M
5200MHz	Pass	Inf	22.05M	17.781M	21.69M	17.841M
5240MHz	Pass	Inf	21.57M	17.781M	21.3M	17.841M
5745MHz	Pass	500k	17.58M	17.871M	17.61M	17.991M
5785MHz	Pass	500k	17.64M	17.961M	17.58M	18.051M
5825MHz	Pass	500k	17.58M	17.901M	17.58M	18.021M
802.11n HT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5190MHz	Pass	Inf	39.78M	36.102M	39.66M	36.102M
5230MHz	Pass	Inf	40.08M	36.222M	40.14M	36.162M
5755MHz	Pass	500k	36M	36.582M	36.06M	36.642M
5795MHz	Pass	500k	35.64M	36.762M	35.4M	36.702M
802.11ac VHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5180MHz	Pass	Inf	21.57M	17.781M	21.33M	17.841M
5200MHz	Pass	Inf	21.81M	17.781M	21.75M	17.871M
5240MHz	Pass	Inf	21.63M	17.811M	21.39M	17.871M
5745MHz	Pass	500k	17.58M	17.901M	17.55M	18.021M
5785MHz	Pass	500k	17.58M	17.961M	17.58M	18.081M
5825MHz	Pass	500k	17.58M	17.901M	17.58M	18.021M
802.11ac VHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5190MHz	Pass	Inf	39.6M	36.102M	39.96M	36.102M
5230MHz	Pass	Inf	40.2M	36.222M	39.78M	36.222M
5755MHz	Pass	500k	35.4M	36.702M	35.4M	36.642M
5795MHz	Pass	500k	35.64M	36.822M	34.68M	36.642M
802.11ac VHT80_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5210MHz	Pass	Inf	81.6M	75.322M	81.96M	75.322M
5775MHz	Pass	500k	70.32M	75.442M	72.6M	75.442M
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5180MHz	Pass	Inf	22.08M	19.1M	21.84M	19.1M
5200MHz	Pass	Inf	22.02M	19.13M	22.11M	19.13M
5240MHz	Pass	Inf	21.72M	19.1M	22.14M	19.13M
5745MHz	Pass	500k	18.99M	19.22M	18.99M	19.25M
5785MHz	Pass	500k	18.99M	19.28M	19.02M	19.37M
5825MHz	Pass	500k	18.99M	19.25M	18.99M	19.34M
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5190MHz	Pass	Inf	40.5M	37.721M	40.32M	37.721M
5230MHz	Pass	Inf	40.68M	37.961M	40.5M	37.841M
5755MHz	Pass	500k	36.54M	38.201M	37.2M	38.321M
5795MHz	Pass	500k	37.5M	38.381M	37.74M	38.381M
802.11ax HEW80_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5210MHz	Pass	Inf	81.96M	77.241M	82.2M	77.241M
5775MHz	Pass	500k	76.92M	77.601M	77.16M	77.601M

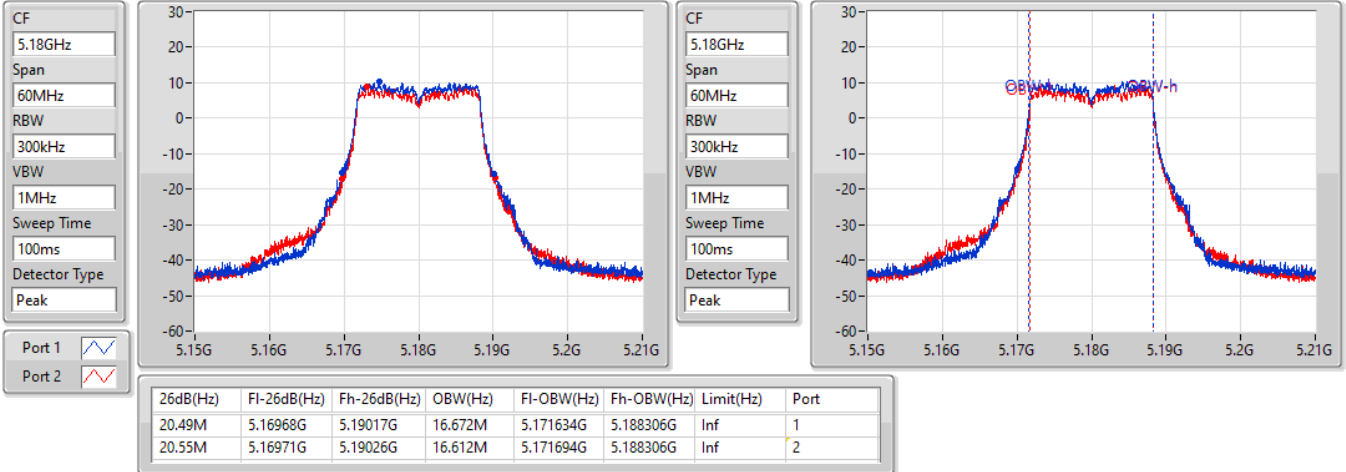
Port X-N dB = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band
Port X-OBW = Port X 99% occupied bandwidth

802.11a_Nss1,(6Mbps)_2TX

EBW

5180MHz

26/08/2022

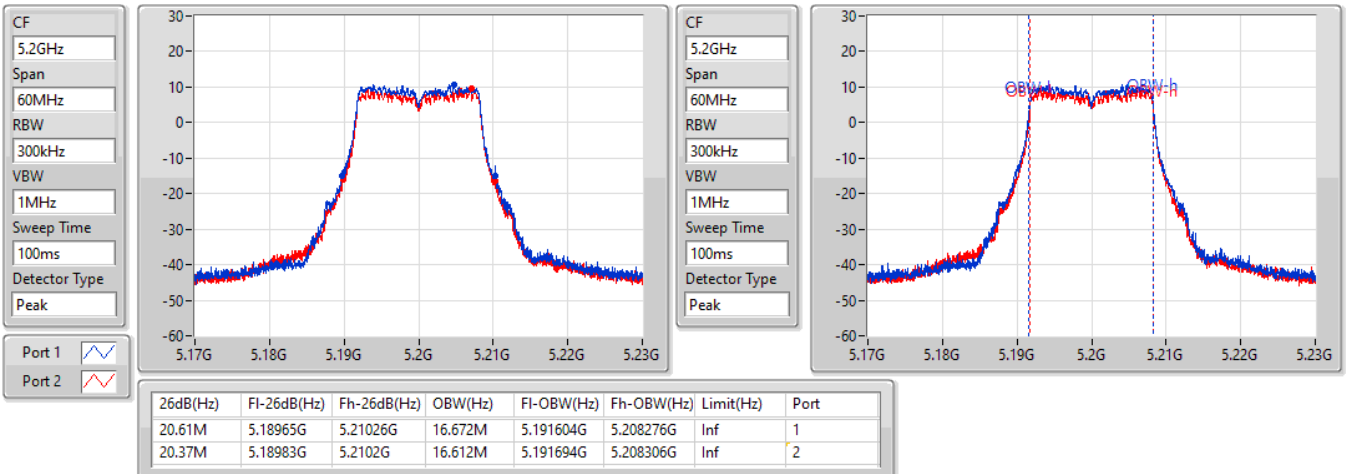


802.11a_Nss1,(6Mbps)_2TX

EBW

5200MHz

26/08/2022

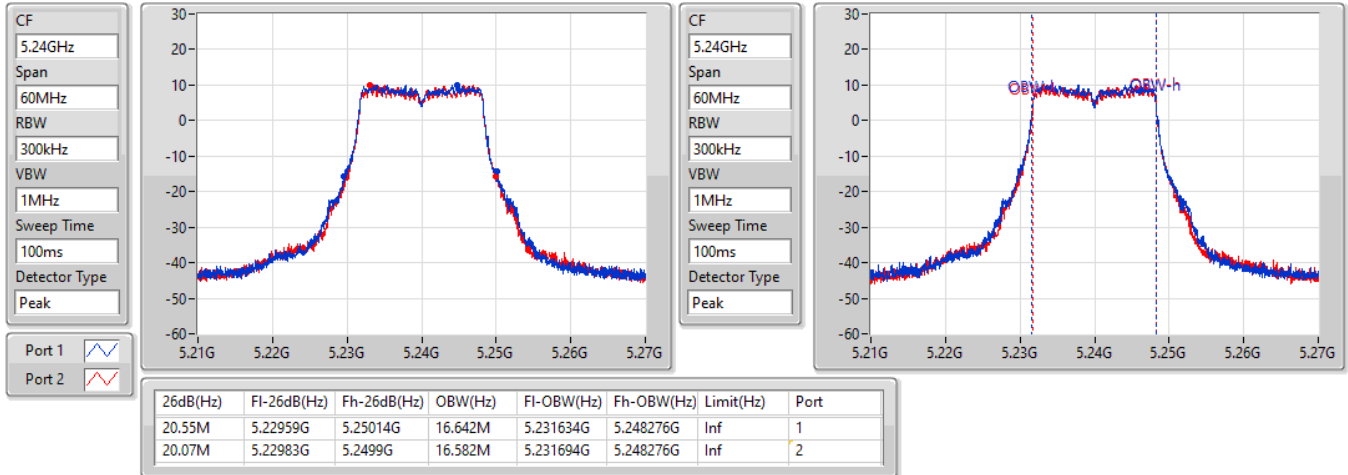


802.11a_Nss1,(6Mbps)_2TX

EBW

5240MHz

26/08/2022

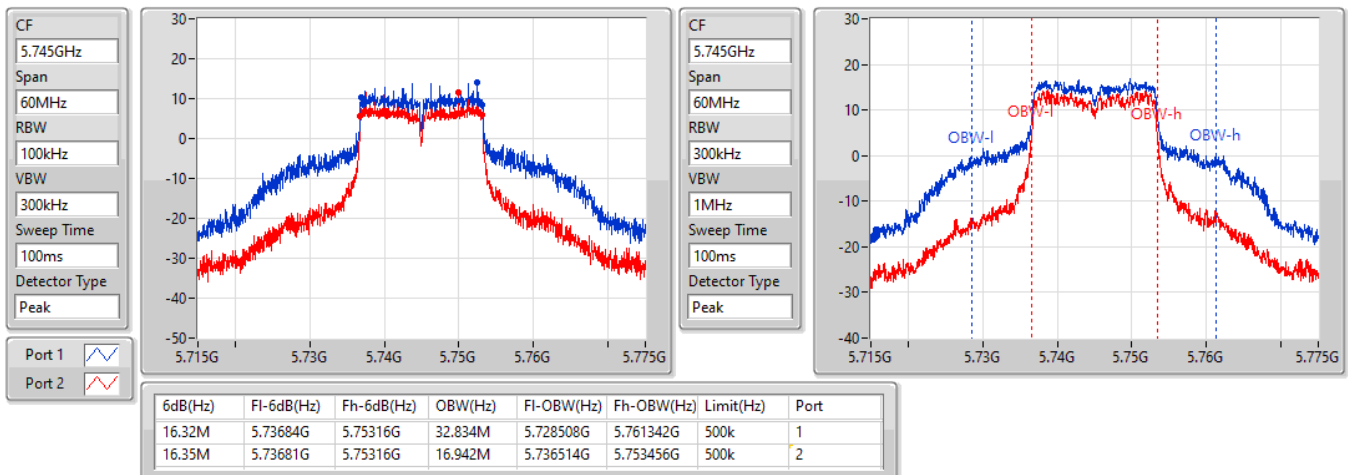


802.11a_Nss1,(6Mbps)_2TX

EBW

5745MHz

26/08/2022

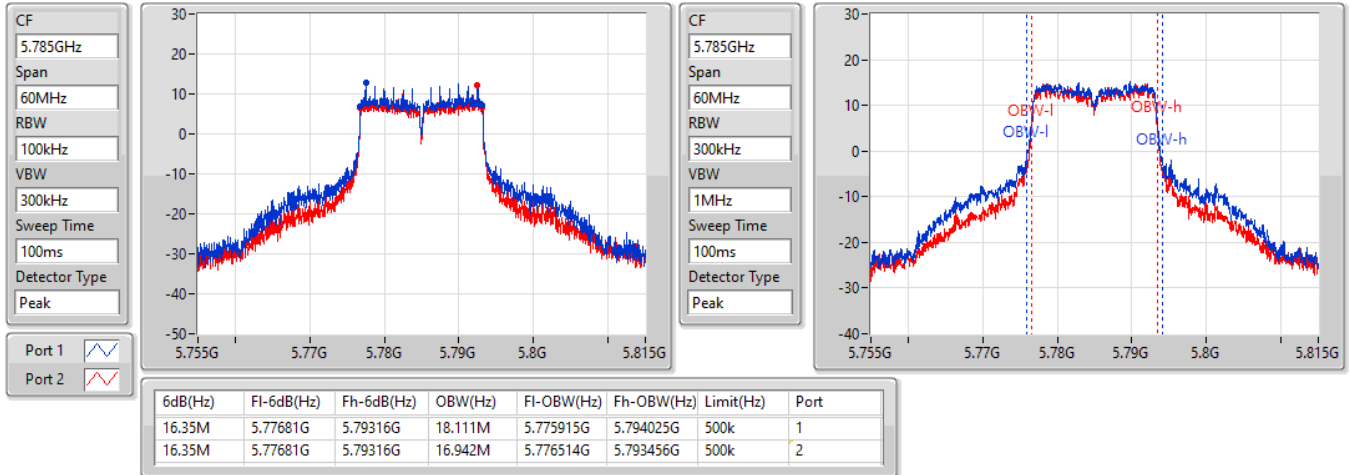


802.11a_Nss1,(6Mbps)_2TX

EBW

5785MHz

26/08/2022

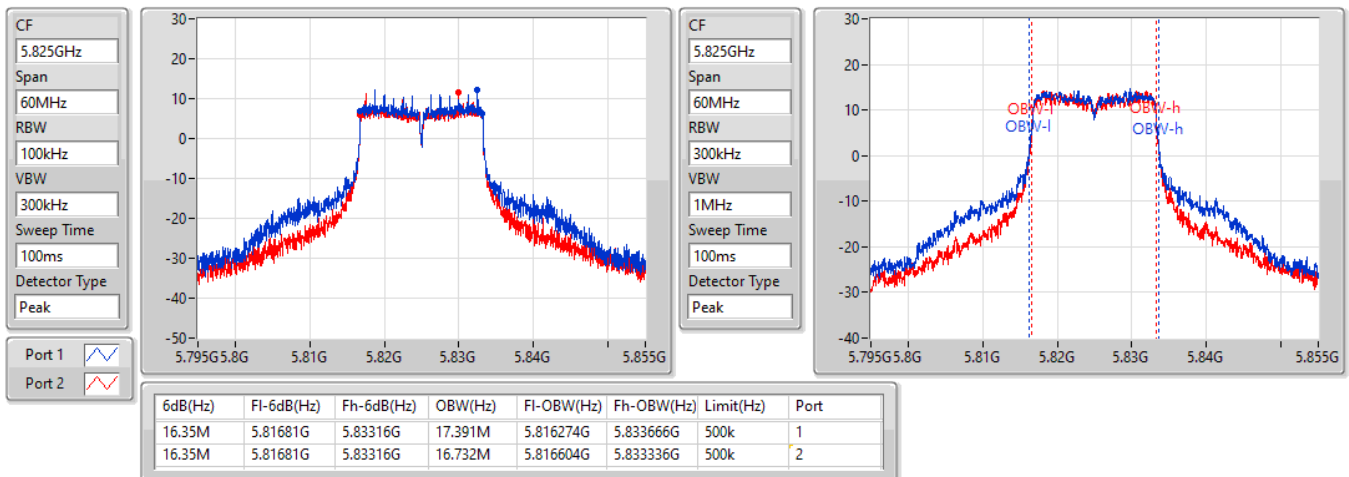


802.11a_Nss1,(6Mbps)_2TX

EBW

5825MHz

26/08/2022

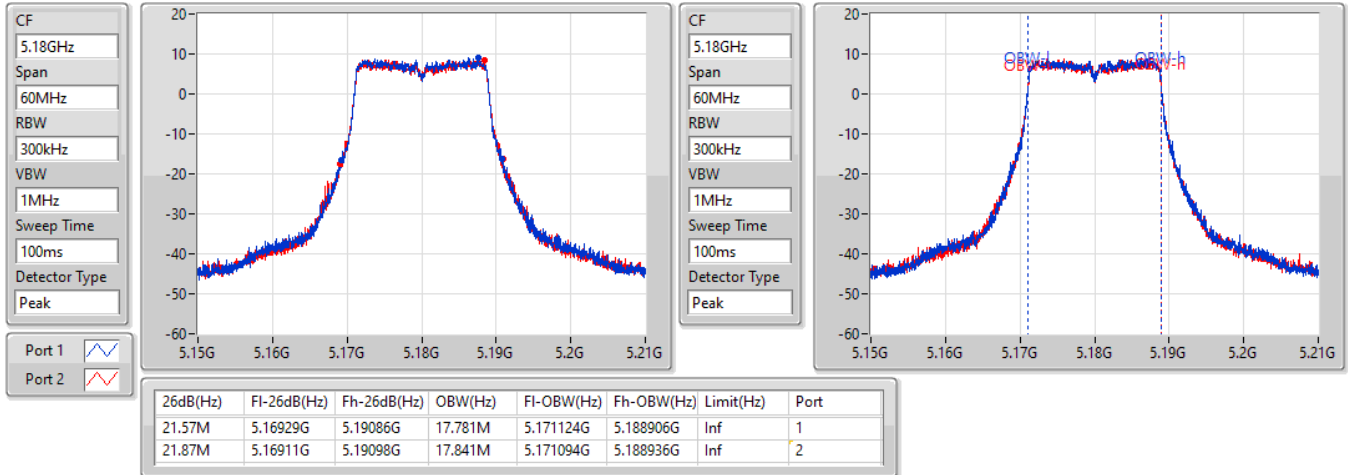


802.11n HT20_Nss1,(MCS0)_2TX

EBW

5180MHz

30/08/2022

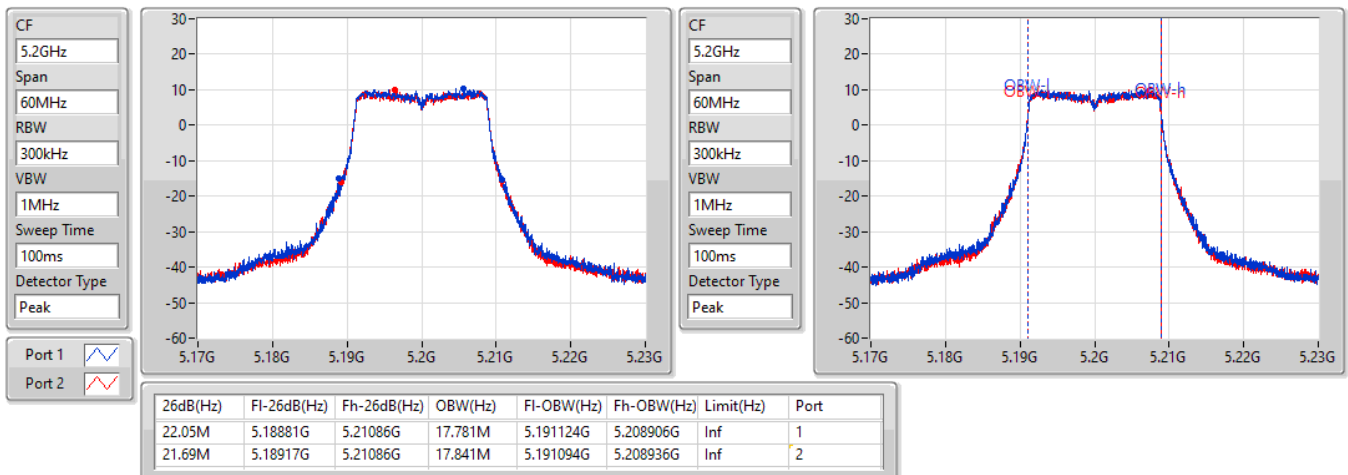


802.11n HT20_Nss1,(MCS0)_2TX

EBW

5200MHz

30/08/2022

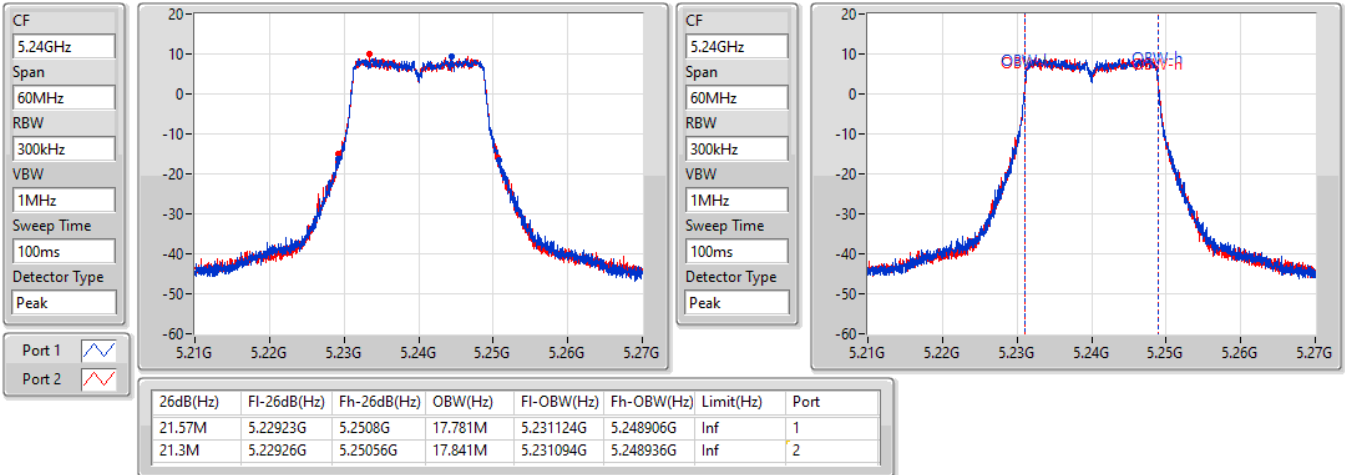


802.11n HT20_Nss1,(MCS0)_2TX

EBW

5240MHz

30/08/2022

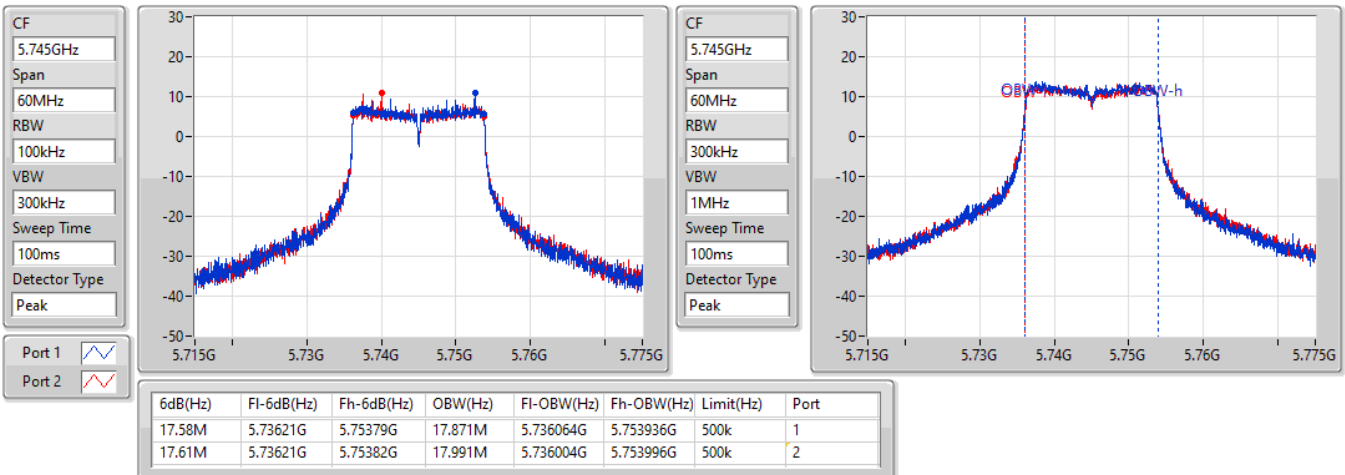


802.11n HT20_Nss1,(MCS0)_2TX

EBW

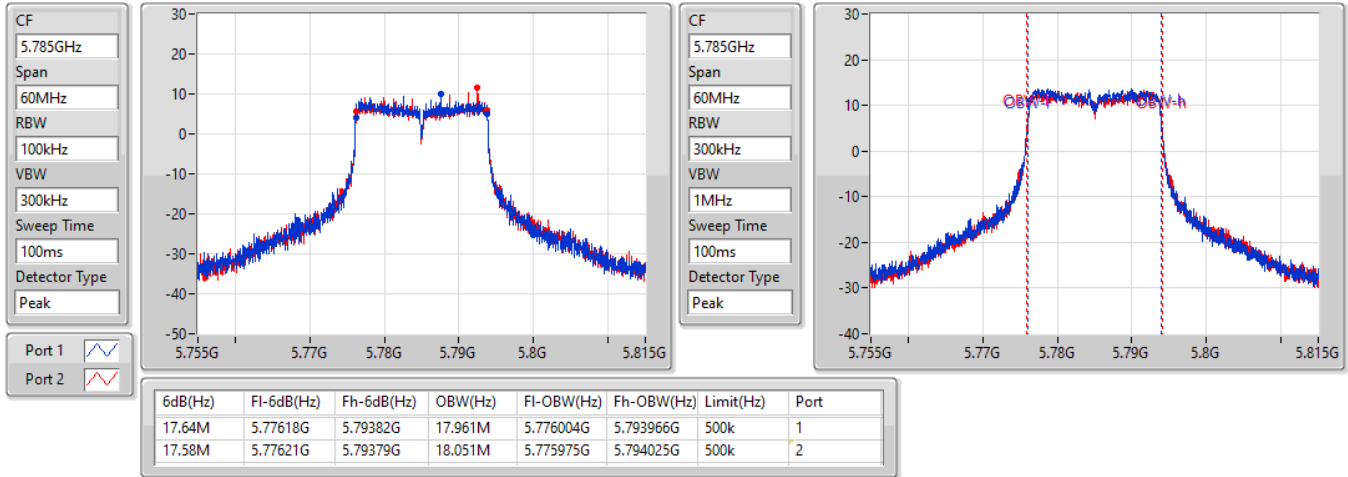
5745MHz

30/08/2022

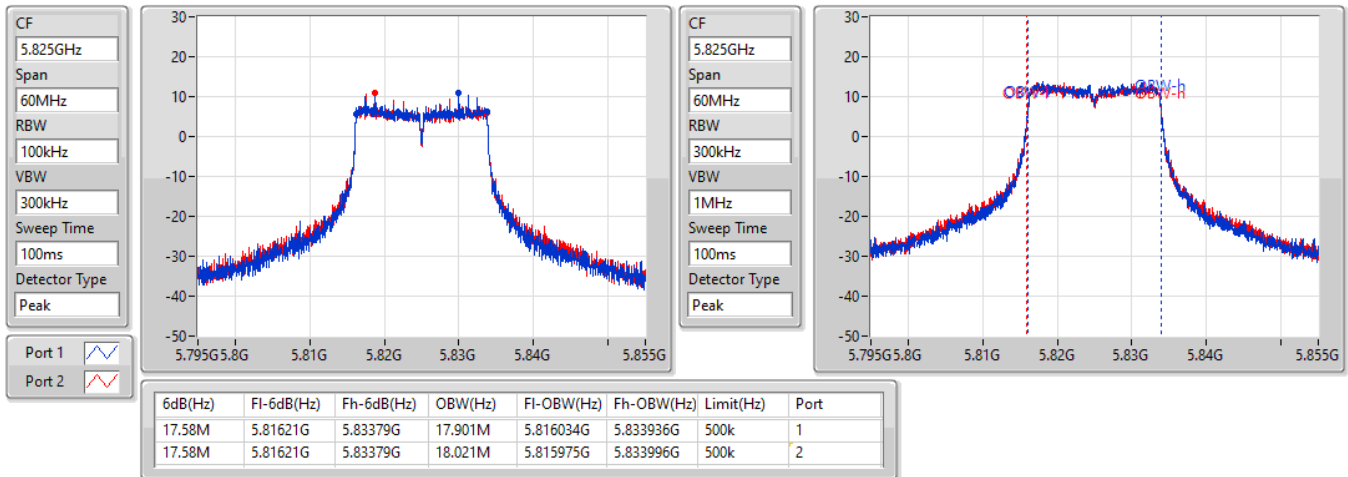


802.11n HT20_Nss1,(MCS0)_2TX
EBW
5785MHz

30/08/2022


802.11n HT20_Nss1,(MCS0)_2TX
EBW
5825MHz

30/08/2022

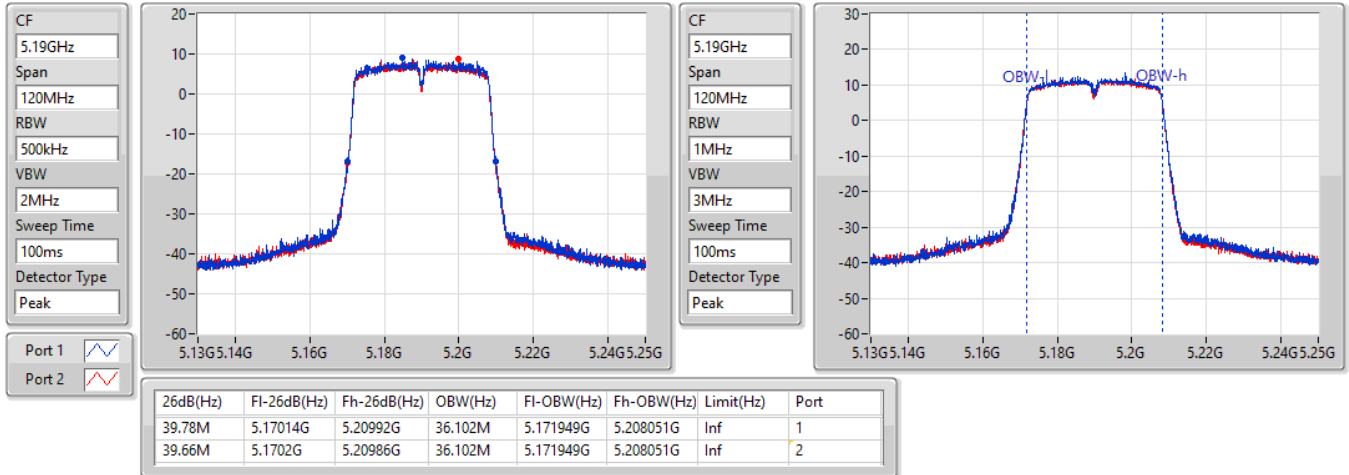


802.11n HT40_Nss1,(MCS0)_2TX

EBW

5190MHz

30/08/2022

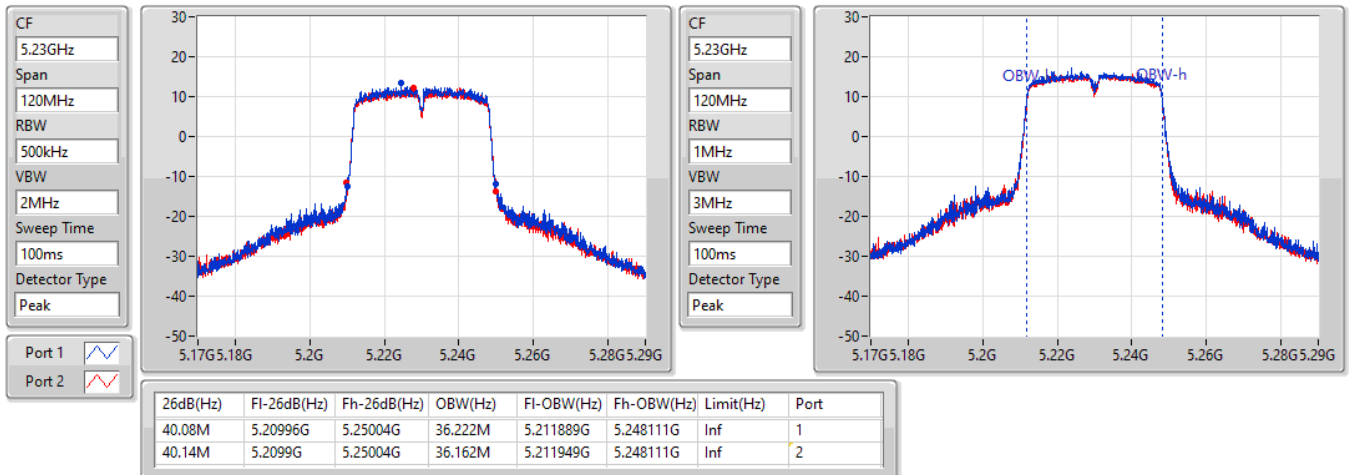


802.11n HT40_Nss1,(MCS0)_2TX

EBW

5230MHz

30/08/2022

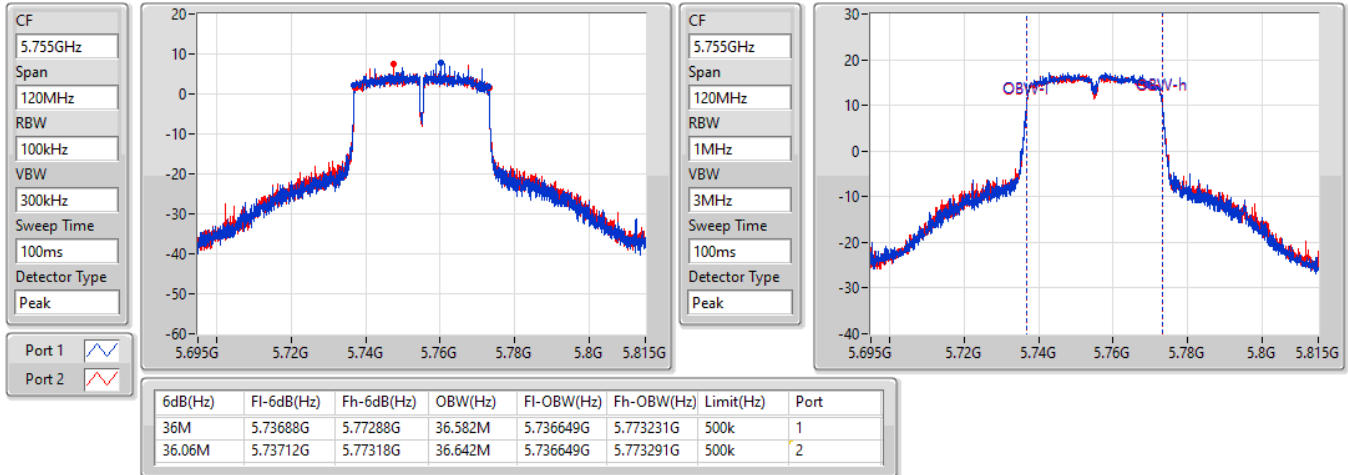


802.11n HT40_Nss1,(MCS0)_2TX

EBW

5755MHz

30/08/2022

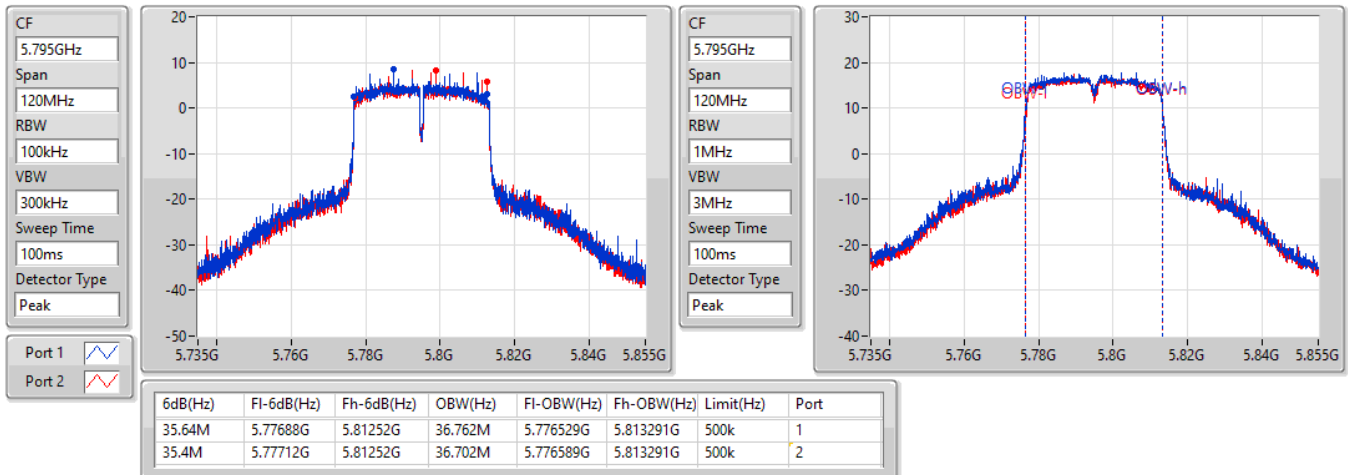


802.11n HT40_Nss1,(MCS0)_2TX

EBW

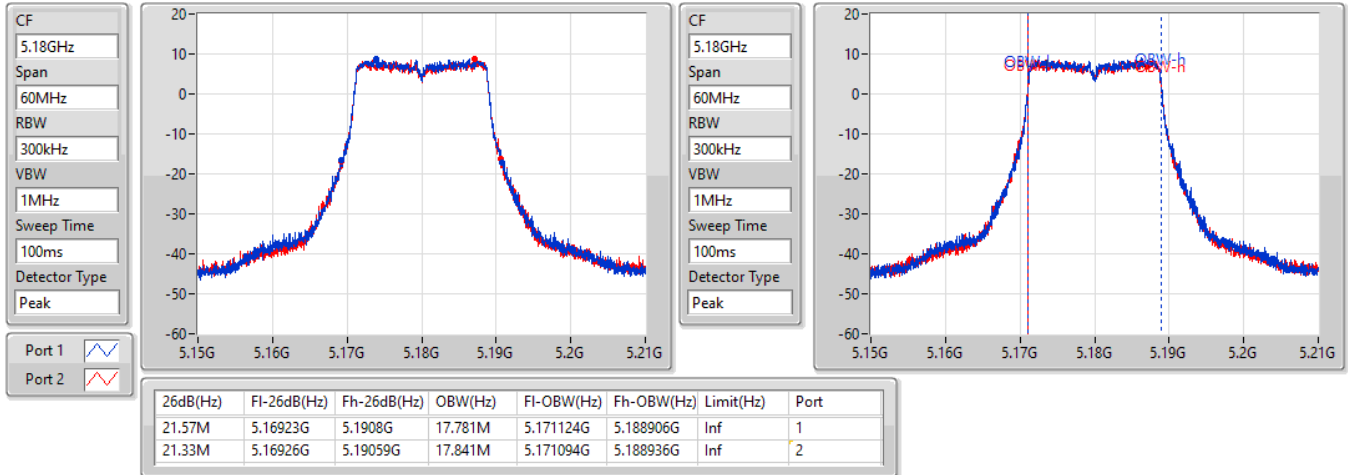
5795MHz

30/08/2022

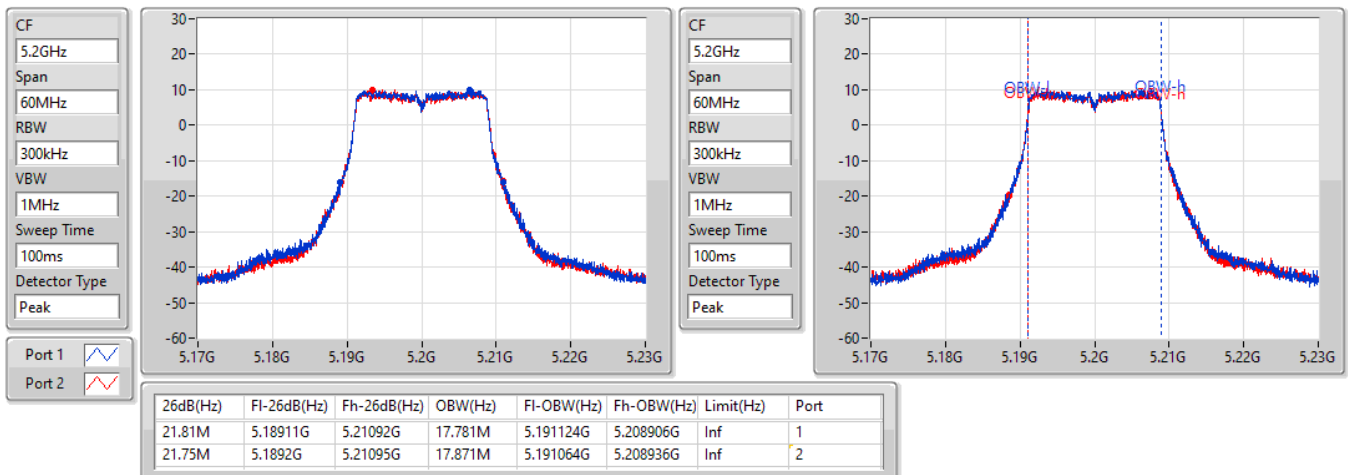


802.11ac VHT20_Nss1,(MCS0)_2TX
EBW
5180MHz

30/08/2022


802.11ac VHT20_Nss1,(MCS0)_2TX
EBW
5200MHz

30/08/2022

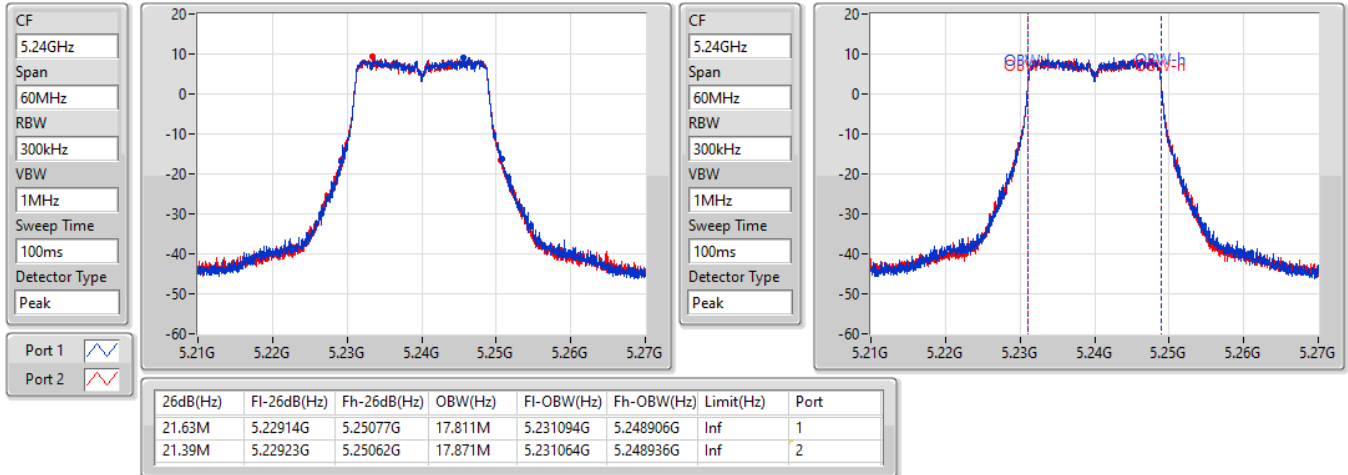


802.11ac VHT20_Nss1,(MCS0)_2TX

EBW

5240MHz

30/08/2022

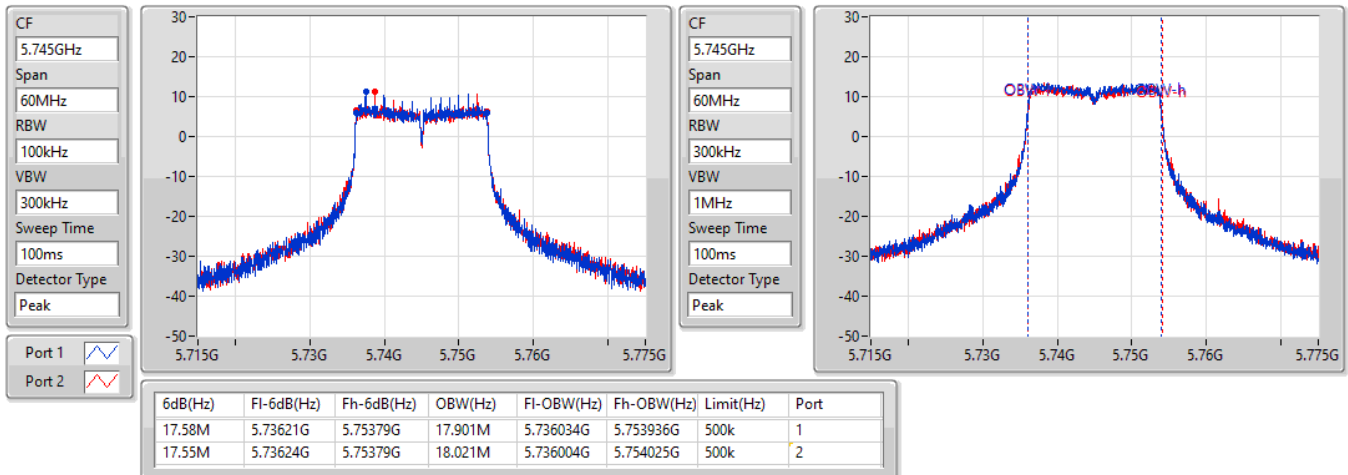


802.11ac VHT20_Nss1,(MCS0)_2TX

EBW

5745MHz

30/08/2022

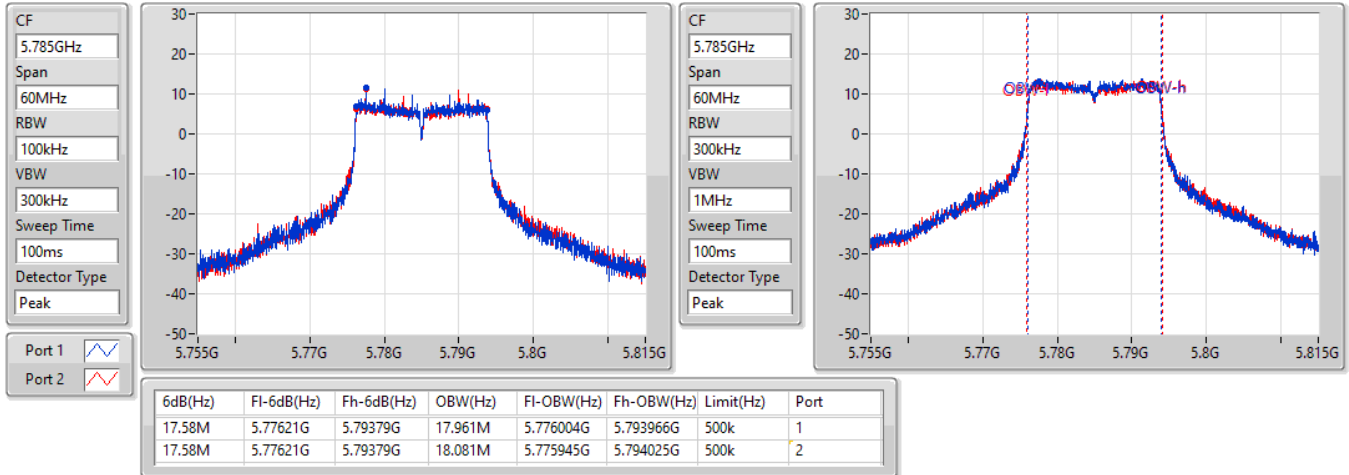


802.11ac VHT20_Nss1,(MCS0)_2TX

EBW

5785MHz

30/08/2022

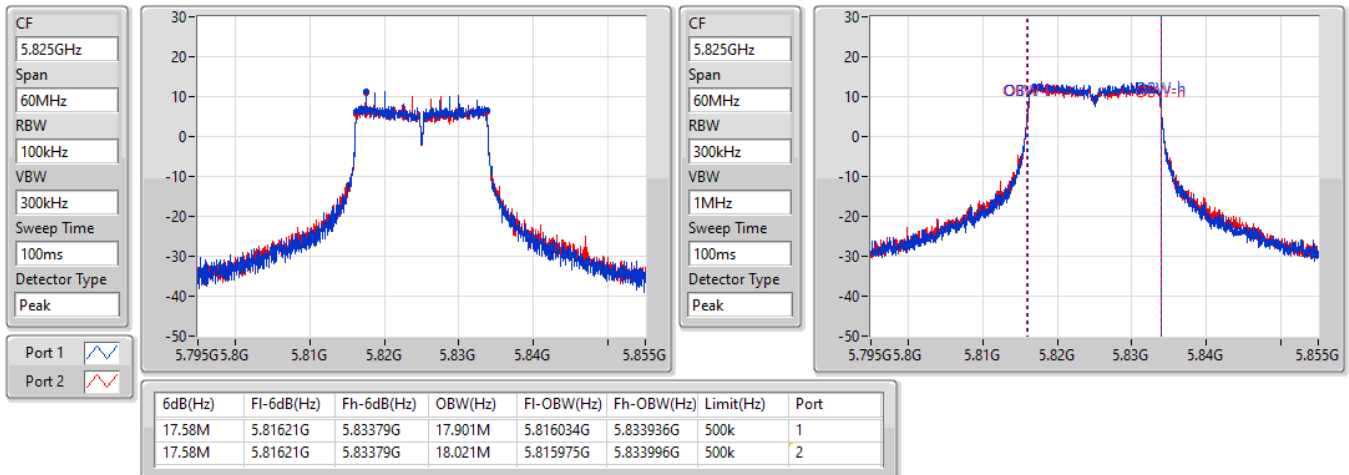


802.11ac VHT20_Nss1,(MCS0)_2TX

EBW

5825MHz

30/08/2022

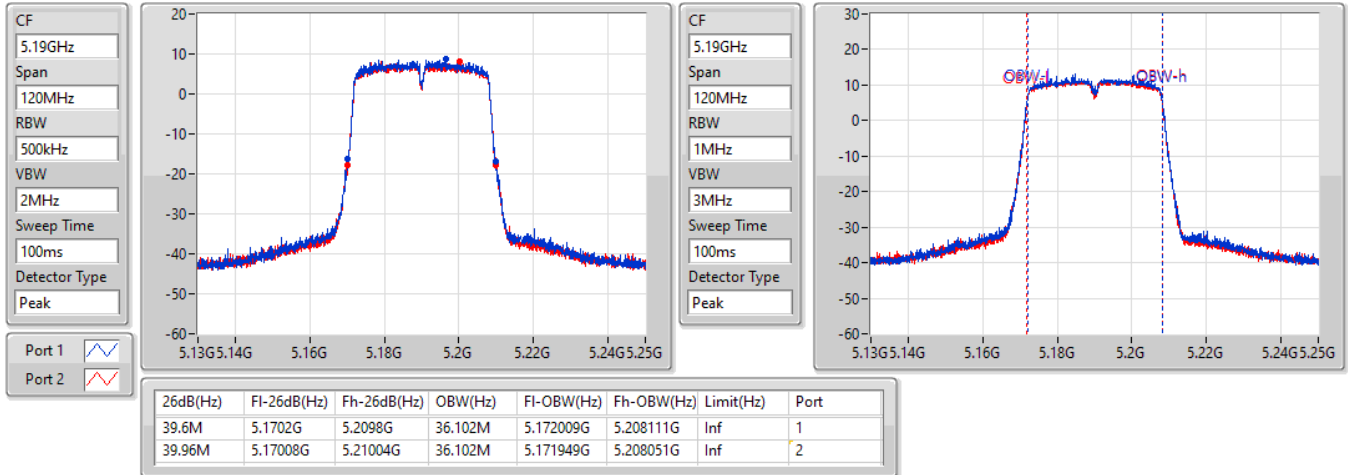


802.11ac VHT40_Nss1,(MCS0)_2TX

EBW

5190MHz

30/08/2022

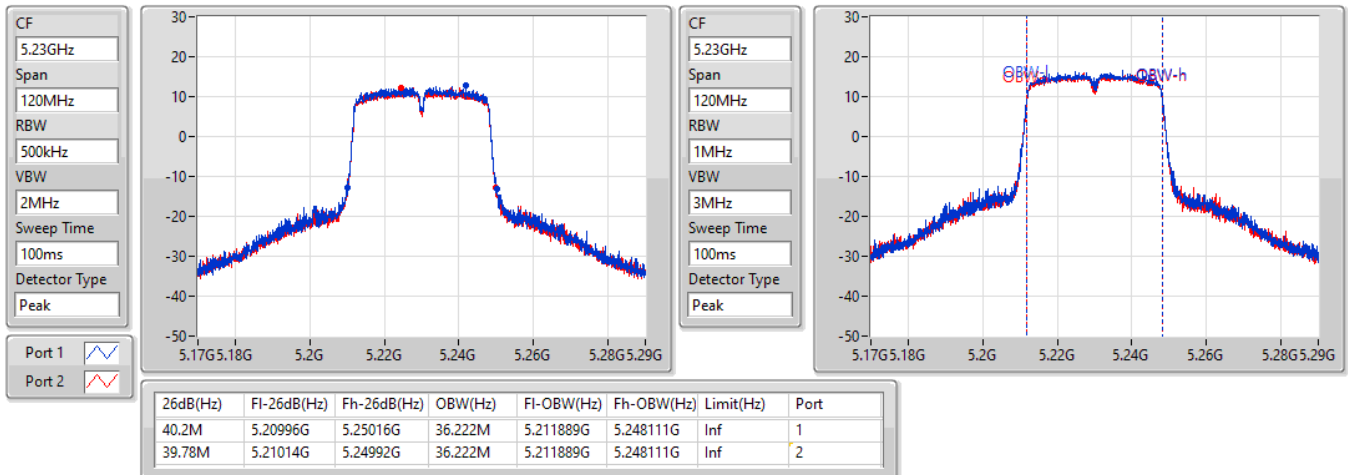


802.11ac VHT40_Nss1,(MCS0)_2TX

EBW

5230MHz

30/08/2022

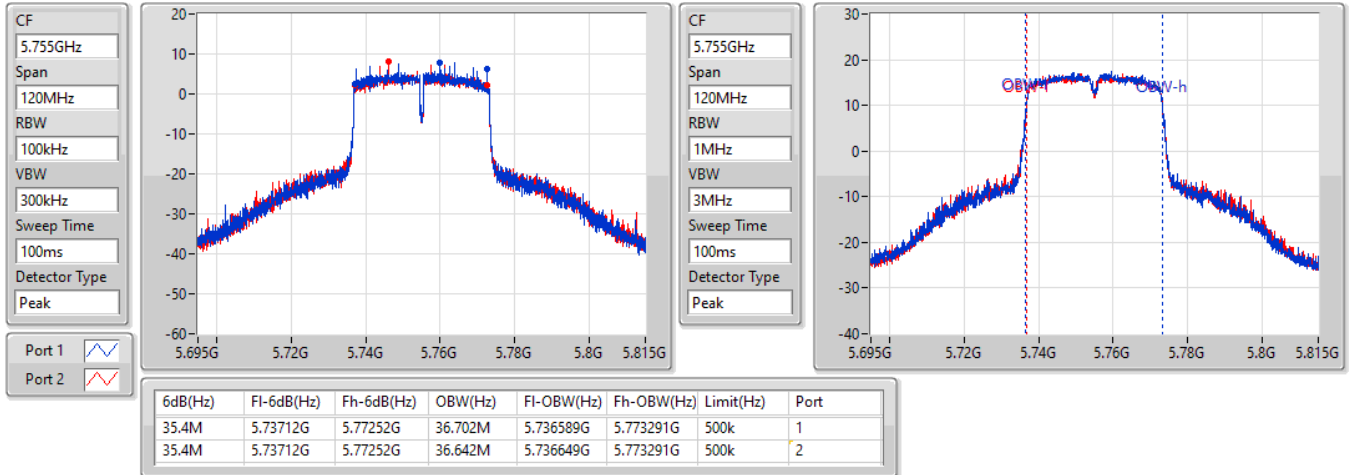


802.11ac VHT40_Nss1,(MCS0)_2TX

EBW

5755MHz

30/08/2022

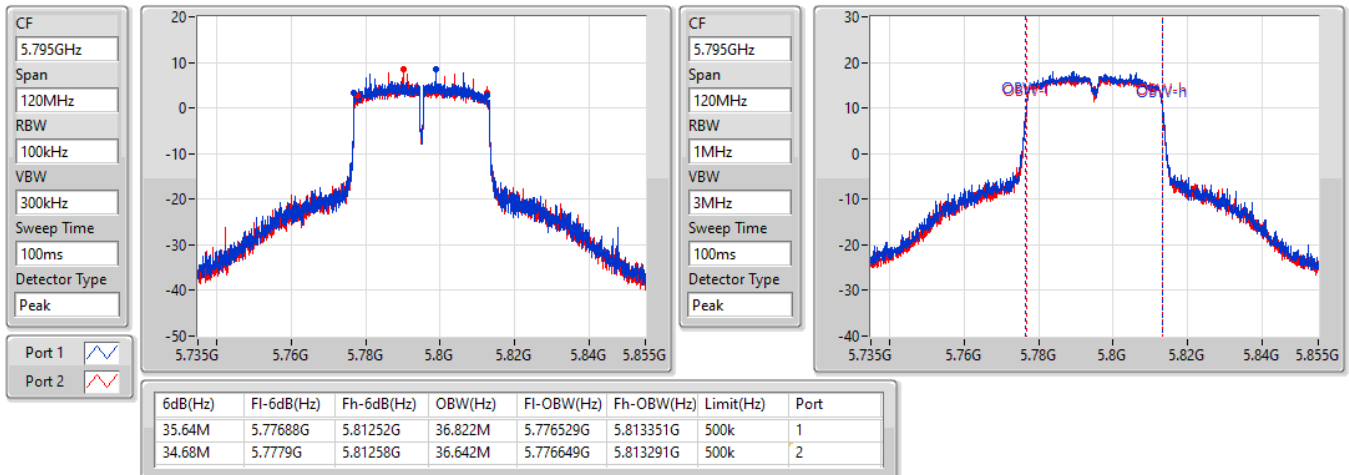


802.11ac VHT40_Nss1,(MCS0)_2TX

EBW

5795MHz

30/08/2022

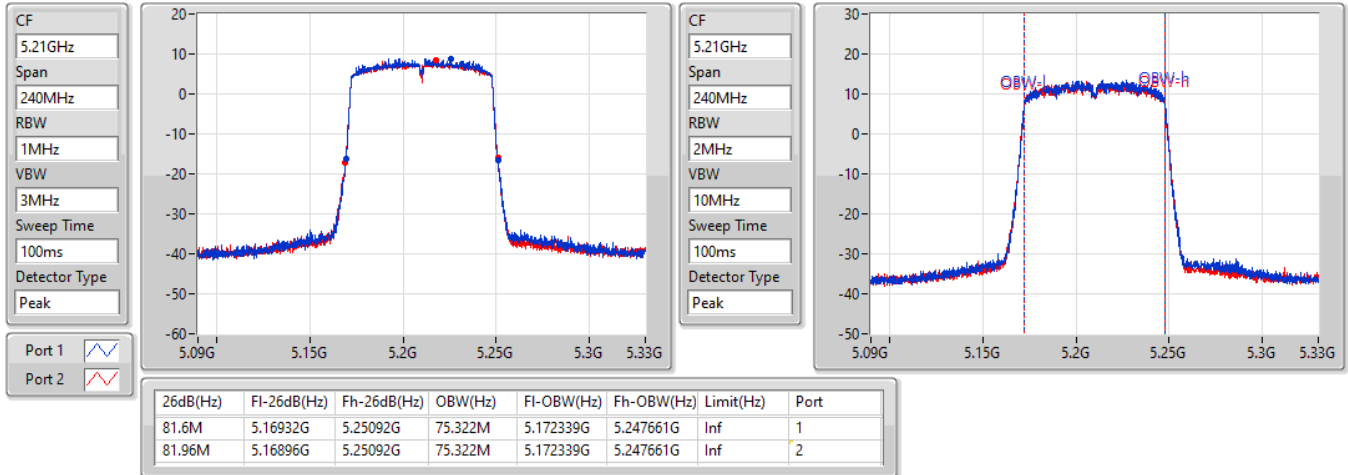


802.11ac VHT80_Nss1,(MCS0)_2TX

EBW

5210MHz

30/08/2022

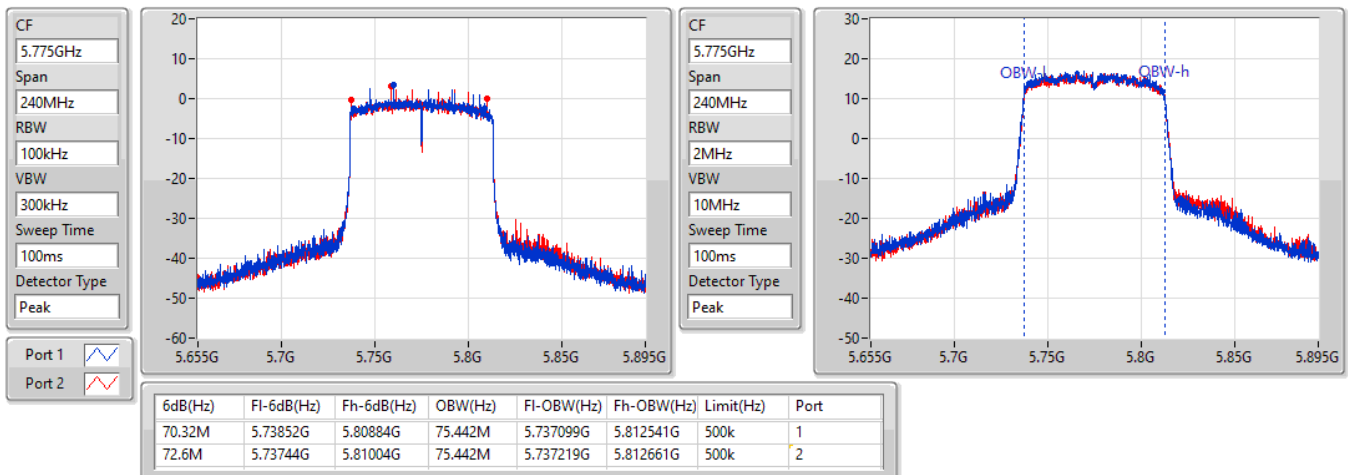


802.11ac VHT80_Nss1,(MCS0)_2TX

EBW

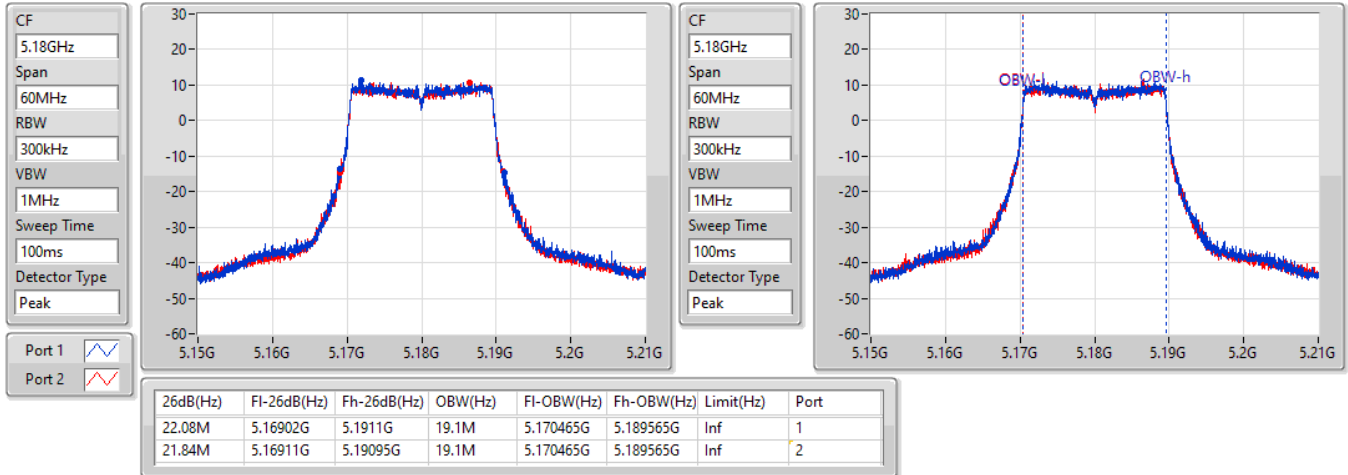
5775MHz

30/08/2022

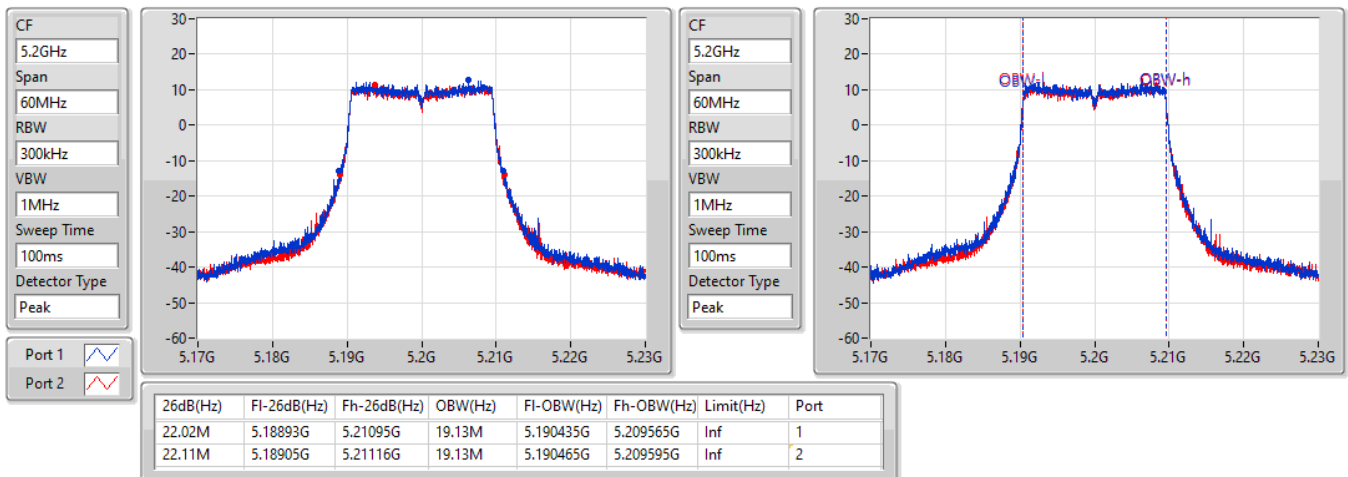


802.11ax HEW20_Nss1,(MCS0)_2TX
EBW
5180MHz

30/08/2022


802.11ax HEW20_Nss1,(MCS0)_2TX
EBW
5200MHz

30/08/2022

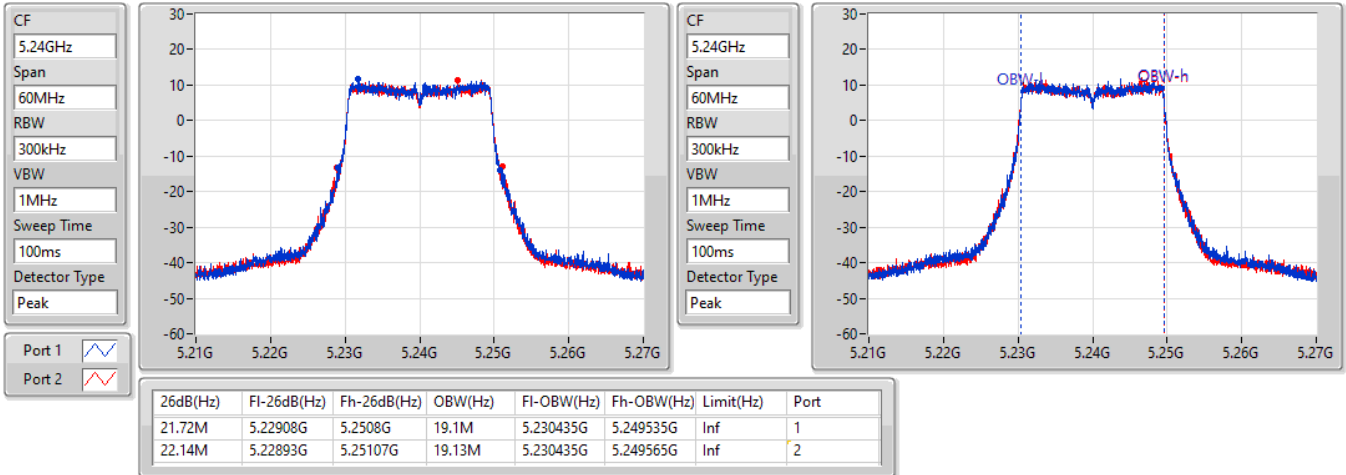


802.11ax HEW20_Nss1,(MCS0)_2TX

EBW

5240MHz

30/08/2022

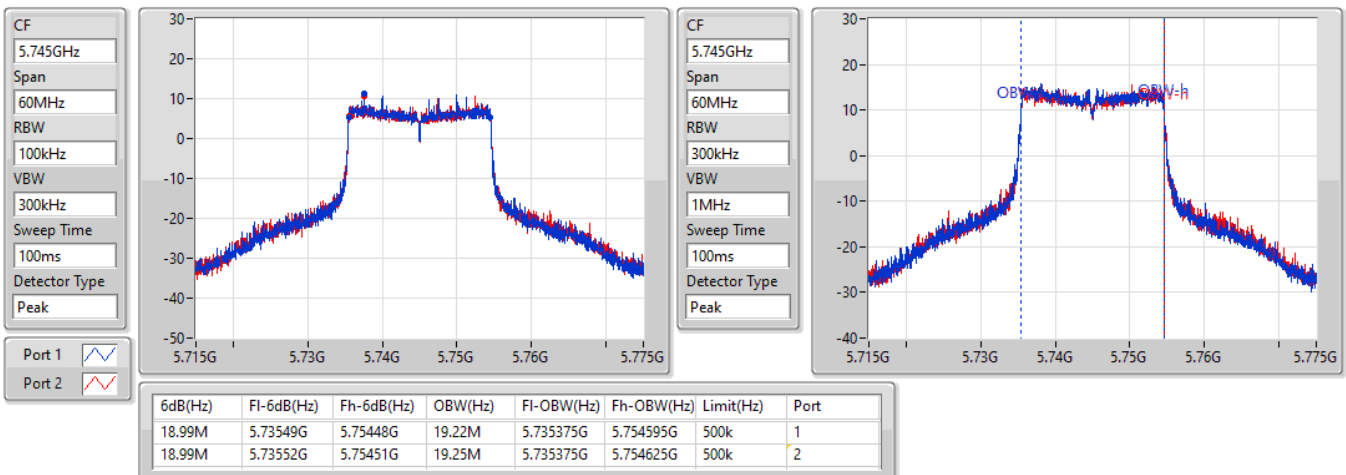


802.11ax HEW20_Nss1,(MCS0)_2TX

EBW

5745MHz

30/08/2022

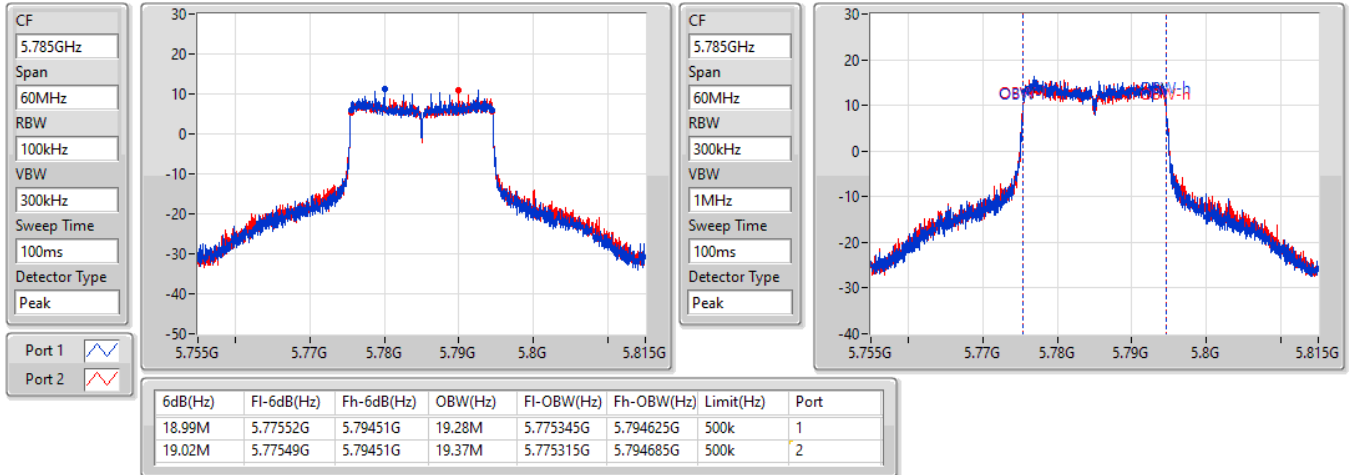


802.11ax HEW20_Nss1,(MCS0)_2TX

EBW

5785MHz

30/08/2022

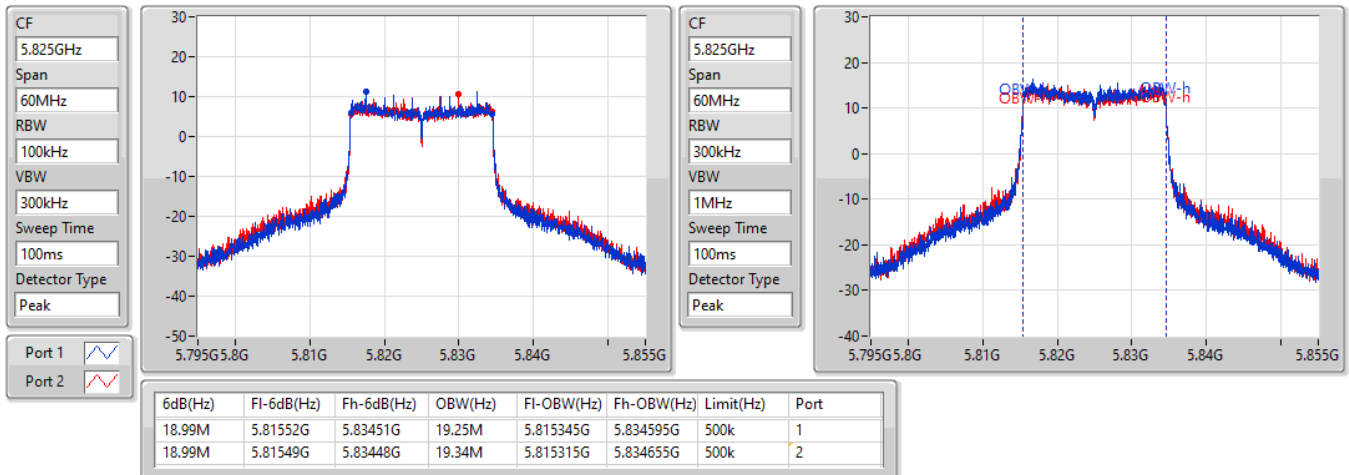


802.11ax HEW20_Nss1,(MCS0)_2TX

EBW

5825MHz

30/08/2022

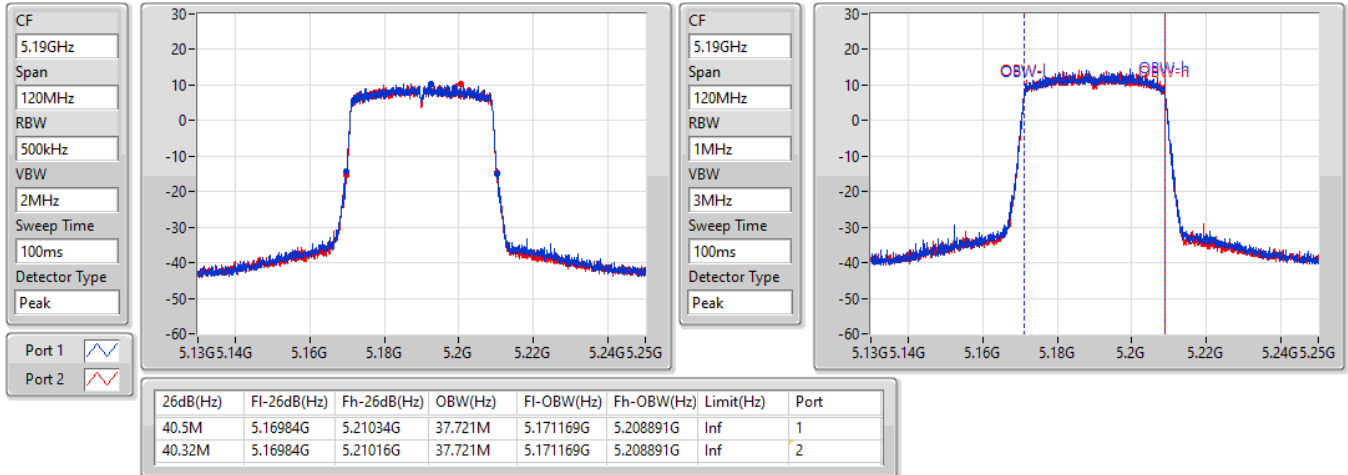


802.11ax HEW40_Nss1,(MCS0)_2TX

EBW

5190MHz

30/08/2022

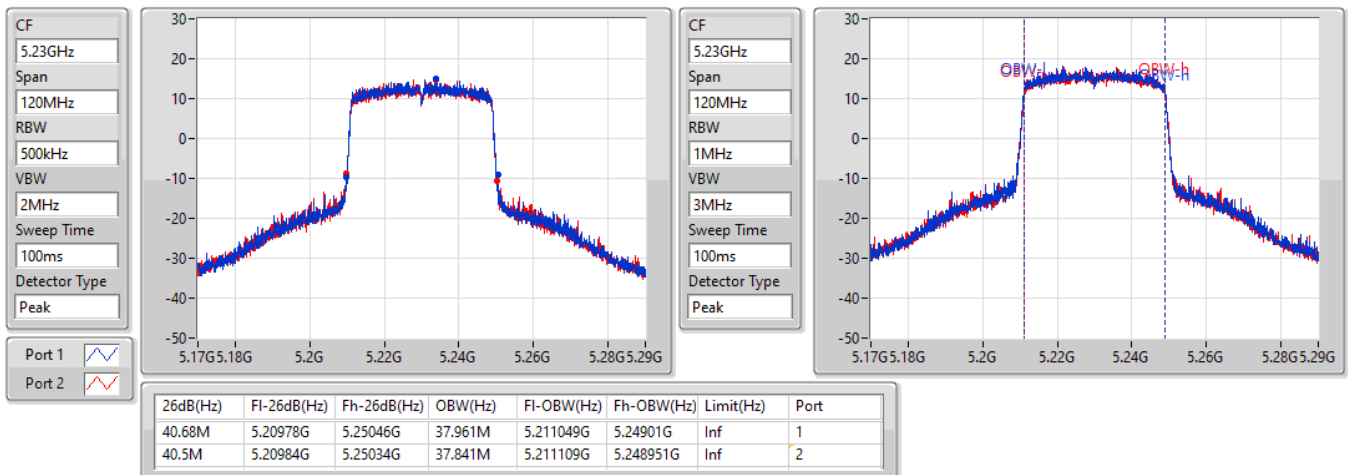


802.11ax HEW40_Nss1,(MCS0)_2TX

EBW

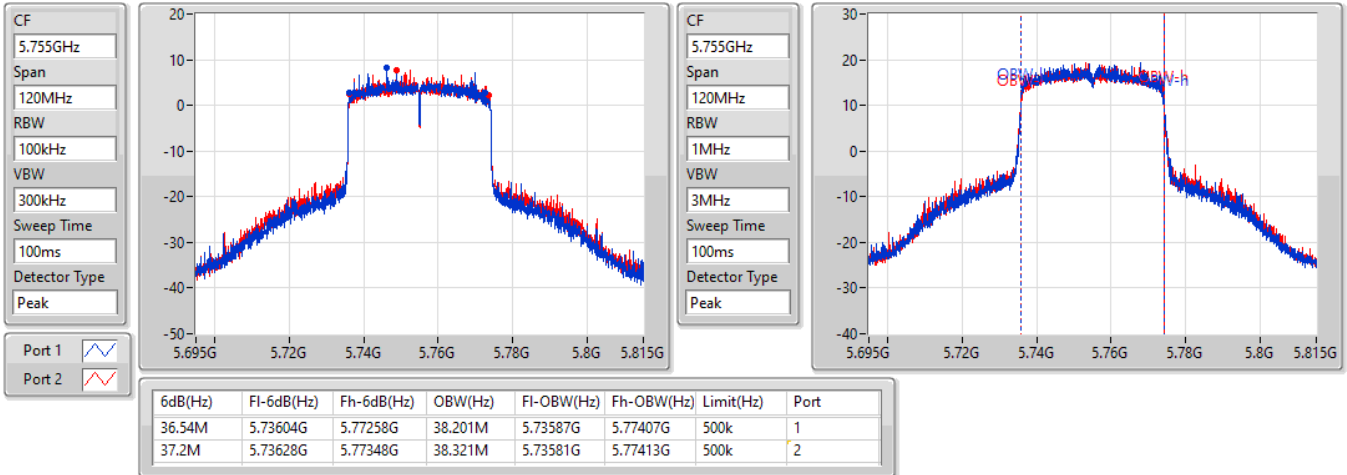
5230MHz

30/08/2022

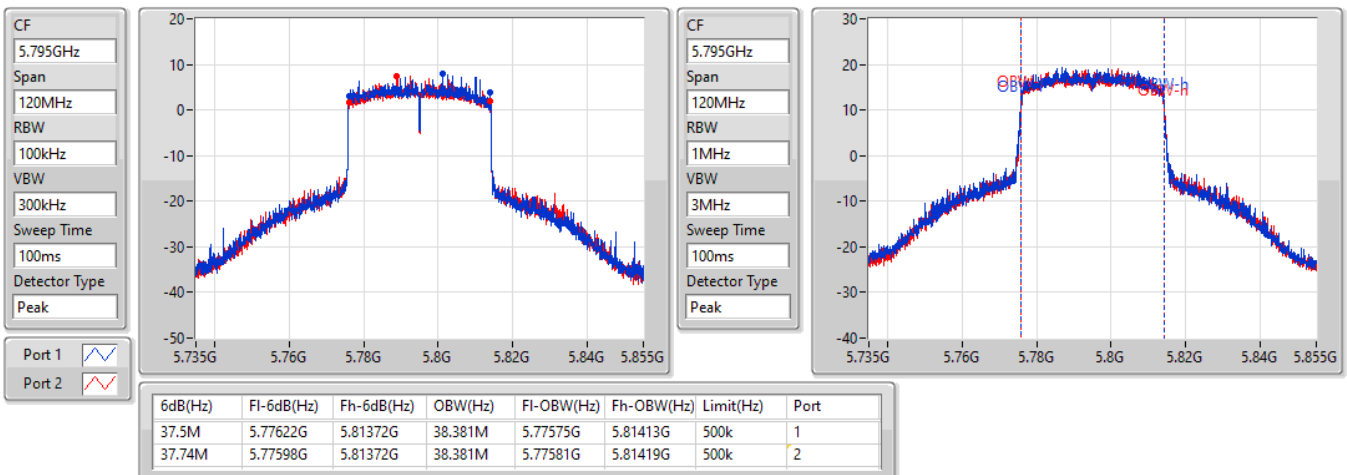


802.11ax HEW40_Nss1,(MCS0)_2TX
EBW
5755MHz

30/08/2022


802.11ax HEW40_Nss1,(MCS0)_2TX
EBW
5795MHz

30/08/2022

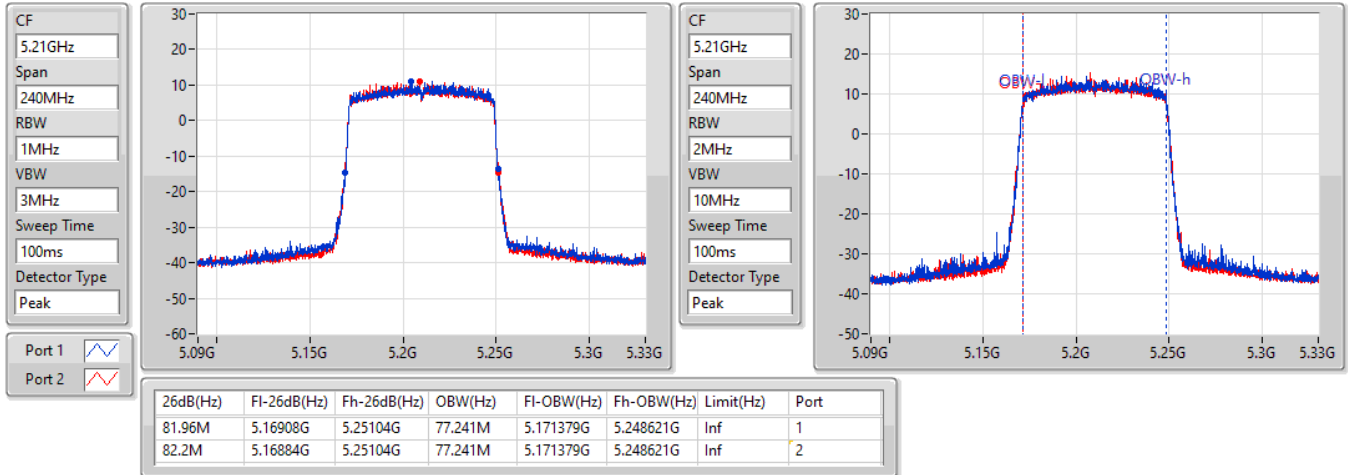


802.11ax HEW80_Nss1,(MCS0)_2TX

EBW

5210MHz

30/08/2022

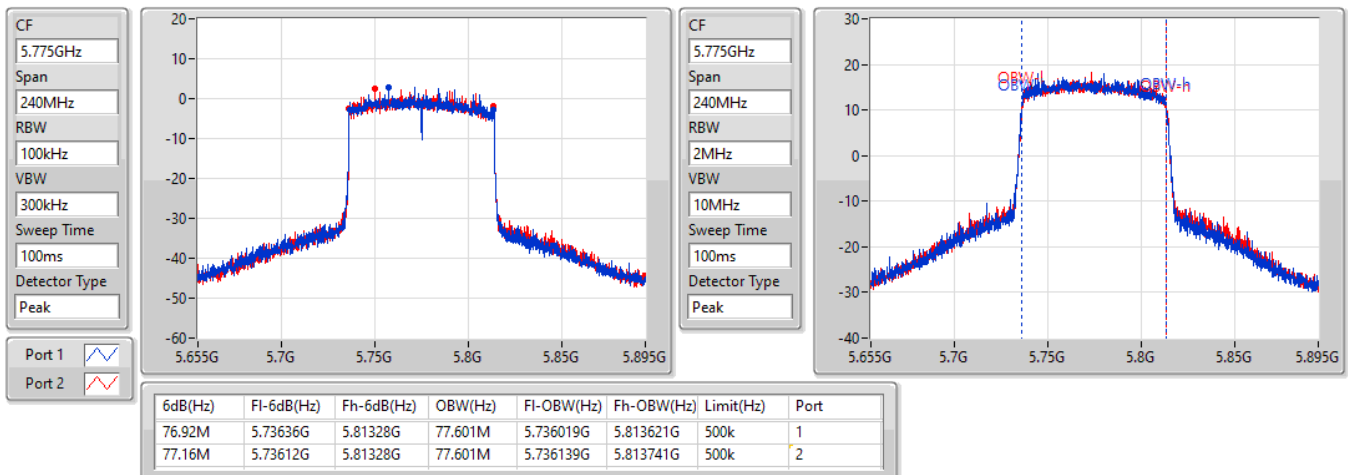


802.11ax HEW80_Nss1,(MCS0)_2TX

EBW

5775MHz

30/08/2022





Average Power_Non-Beamforming_Radio2

Appendix C.1

Summary

Mode	Total Power (dBm)	Total Power (W)	EIRP (dBm)	EIRP (W)
5.15-5.25GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	25.13	0.32584	30.43	1.10408
802.11n HT20_Nss1,(MCS0)_2TX	24.34	0.27164	29.64	0.92045
802.11n HT40_Nss1,(MCS0)_2TX	24.97	0.31405	30.27	1.06414
802.11ac VHT20_Nss1,(MCS0)_2TX	24.39	0.27479	29.69	0.93111
802.11ac VHT40_Nss1,(MCS0)_2TX	25.00	0.31623	30.30	1.07152
802.11ac VHT80_Nss1,(MCS0)_2TX	22.88	0.19409	28.18	0.65766
802.11ax HEW20_Nss1,(MCS0)_2TX	24.44	0.27797	29.74	0.94189
802.11ax HEW40_Nss1,(MCS0)_2TX	25.08	0.32211	30.38	1.09144
802.11ax HEW80_Nss1,(MCS0)_2TX	23.24	0.21086	28.54	0.71450
5.725-5.85GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	25.01	0.31696	30.31	1.07399
802.11n HT20_Nss1,(MCS0)_2TX	24.43	0.27733	29.73	0.93972
802.11n HT40_Nss1,(MCS0)_2TX	24.94	0.31189	30.24	1.05682
802.11ac VHT20_Nss1,(MCS0)_2TX	24.49	0.28119	29.79	0.95280
802.11ac VHT40_Nss1,(MCS0)_2TX	25.04	0.31915	30.34	1.08143
802.11ac VHT80_Nss1,(MCS0)_2TX	24.00	0.25119	29.30	0.85114
802.11ax HEW20_Nss1,(MCS0)_2TX	24.54	0.28445	29.84	0.96383
802.11ax HEW40_Nss1,(MCS0)_2TX	25.12	0.32509	30.42	1.10154
802.11ax HEW80_Nss1,(MCS0)_2TX	24.02	0.25235	29.32	0.85507

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-	-
5180MHz	Pass	5.30	20.25	20.12	23.20	30.00	28.50	36.00
5200MHz	Pass	5.30	21.89	22.12	25.02	30.00	30.32	36.00
5240MHz	Pass	5.30	22.13	22.11	25.13	30.00	30.43	36.00
5745MHz	Pass	5.30	21.71	21.91	24.82	30.00	30.12	36.00
5785MHz	Pass	5.30	21.86	22.13	25.01	30.00	30.31	36.00
5825MHz	Pass	5.30	21.76	21.78	24.78	30.00	30.08	36.00
802.11n HT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5180MHz	Pass	5.30	19.67	19.25	22.48	30.00	27.78	36.00
5200MHz	Pass	5.30	21.23	21.43	24.34	30.00	29.64	36.00
5240MHz	Pass	5.30	21.25	21.35	24.31	30.00	29.61	36.00
5745MHz	Pass	5.30	21.08	21.29	24.20	30.00	29.50	36.00
5785MHz	Pass	5.30	21.37	21.46	24.43	30.00	29.73	36.00
5825MHz	Pass	5.30	21.30	21.52	24.42	30.00	29.72	36.00
802.11n HT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5190MHz	Pass	5.30	18.71	18.68	21.71	30.00	27.01	36.00
5230MHz	Pass	5.30	21.88	22.03	24.97	30.00	30.27	36.00
5755MHz	Pass	5.30	21.48	21.78	24.64	30.00	29.94	36.00
5795MHz	Pass	5.30	21.71	22.13	24.94	30.00	30.24	36.00
802.11ac VHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5180MHz	Pass	5.30	19.58	19.40	22.50	30.00	27.80	36.00
5200MHz	Pass	5.30	21.27	21.49	24.39	30.00	29.69	36.00
5240MHz	Pass	5.30	21.35	21.40	24.39	30.00	29.69	36.00
5745MHz	Pass	5.30	21.09	21.30	24.21	30.00	29.51	36.00
5785MHz	Pass	5.30	21.31	21.65	24.49	30.00	29.79	36.00
5825MHz	Pass	5.30	21.10	21.25	24.19	30.00	29.49	36.00
802.11ac VHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5190MHz	Pass	5.30	18.79	18.81	21.81	30.00	27.11	36.00
5230MHz	Pass	5.30	21.99	21.98	25.00	30.00	30.30	36.00
5755MHz	Pass	5.30	21.57	21.97	24.78	30.00	30.08	36.00
5795MHz	Pass	5.30	21.76	22.28	25.04	30.00	30.34	36.00
802.11ac VHT80_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5210MHz	Pass	5.30	19.73	20.01	22.88	30.00	28.18	36.00
5775MHz	Pass	5.30	20.79	21.18	24.00	30.00	29.30	36.00
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5180MHz	Pass	5.30	19.65	19.44	22.56	30.00	27.86	36.00
5200MHz	Pass	5.30	21.30	21.55	24.44	30.00	29.74	36.00
5240MHz	Pass	5.30	21.38	21.45	24.43	30.00	29.73	36.00
5745MHz	Pass	5.30	21.18	21.38	24.29	30.00	29.59	36.00
5785MHz	Pass	5.30	21.43	21.62	24.54	30.00	29.84	36.00
5825MHz	Pass	5.30	21.27	21.35	24.32	30.00	29.62	36.00
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5190MHz	Pass	5.30	19.06	18.85	21.97	30.00	27.27	36.00
5230MHz	Pass	5.30	22.00	22.13	25.08	30.00	30.38	36.00
5755MHz	Pass	5.30	21.82	22.10	24.97	30.00	30.27	36.00
5795MHz	Pass	5.30	22.01	22.20	25.12	30.00	30.42	36.00
802.11ax HEW80_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5210MHz	Pass	5.30	20.11	20.34	23.24	30.00	28.54	36.00
5775MHz	Pass	5.30	20.91	21.11	24.02	30.00	29.32	36.00

DG = Directional Gain; Port X = Port X output power



Average Power
Non-Beamforming_Radio2(Low Band)+Radio3(High Band)

Appendix C.2

Summary

Mode	Total Power (dBm)	Total Power (W)	EIRP (dBm)	EIRP (W)
5.15-5.25GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	25.14	0.32659	30.44	1.10662
802.11n HT20_Nss1,(MCS0)_2TX	24.30	0.26915	29.60	0.91201
802.11n HT40_Nss1,(MCS0)_2TX	24.47	0.27990	29.77	0.94842
802.11ac VHT20_Nss1,(MCS0)_2TX	24.36	0.27290	29.66	0.92470
802.11ac VHT40_Nss1,(MCS0)_2TX	24.93	0.31117	30.23	1.05439
802.11ac VHT80_Nss1,(MCS0)_2TX	18.59	0.07228	23.89	0.24491
802.11ax HEW20_Nss1,(MCS0)_2TX	24.54	0.28445	29.84	0.96383
802.11ax HEW40_Nss1,(MCS0)_2TX	24.97	0.31405	30.27	1.06414
802.11ax HEW80_Nss1,(MCS0)_2TX	18.85	0.07674	24.15	0.26002
5.725-5.85GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	24.43	0.27733	29.73	0.93972
802.11n HT20_Nss1,(MCS0)_2TX	24.54	0.28445	29.84	0.96383
802.11n HT40_Nss1,(MCS0)_2TX	24.90	0.30903	30.20	1.04713
802.11ac VHT20_Nss1,(MCS0)_2TX	24.61	0.28907	29.91	0.97949
802.11ac VHT40_Nss1,(MCS0)_2TX	25.01	0.31696	30.31	1.07399
802.11ac VHT80_Nss1,(MCS0)_2TX	21.81	0.15171	27.11	0.51404
802.11ax HEW20_Nss1,(MCS0)_2TX	24.91	0.30974	30.21	1.04954
802.11ax HEW40_Nss1,(MCS0)_2TX	25.17	0.32885	30.47	1.11429
802.11ax HEW80_Nss1,(MCS0)_2TX	22.18	0.16520	27.48	0.55976



Average Power Non-Beamforming_Radio2(Low Band)+Radio3(High Band)

Appendix C.2

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-	-
5180MHz	Pass	5.30	20.56	20.68	23.63	30.00	28.93	36.00
5200MHz	Pass	5.30	21.30	21.27	24.30	30.00	29.60	36.00
5240MHz	Pass	5.30	22.28	21.97	25.14	30.00	30.44	36.00
5745MHz	Pass	5.30	20.97	21.36	24.18	30.00	29.48	36.00
5785MHz	Pass	5.30	20.71	20.80	23.77	30.00	29.07	36.00
5825MHz	Pass	5.30	21.17	21.66	24.43	30.00	29.73	36.00
802.11n HT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5180MHz	Pass	5.30	20.11	20.13	23.13	30.00	28.43	36.00
5200MHz	Pass	5.30	20.21	21.02	23.64	30.00	28.94	36.00
5240MHz	Pass	5.30	21.46	21.12	24.30	30.00	29.60	36.00
5745MHz	Pass	5.30	21.27	21.61	24.45	30.00	29.75	36.00
5785MHz	Pass	5.30	21.46	21.59	24.54	30.00	29.84	36.00
5825MHz	Pass	5.30	20.94	21.41	24.19	30.00	29.49	36.00
802.11n HT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5190MHz	Pass	5.30	18.36	18.33	21.36	30.00	26.66	36.00
5230MHz	Pass	5.30	21.66	21.24	24.47	30.00	29.77	36.00
5755MHz	Pass	5.30	21.74	22.04	24.90	30.00	30.20	36.00
5795MHz	Pass	5.30	21.51	21.60	24.57	30.00	29.87	36.00
802.11ac VHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5180MHz	Pass	5.30	20.14	20.18	23.17	30.00	28.47	36.00
5200MHz	Pass	5.30	20.51	20.83	23.68	30.00	28.98	36.00
5240MHz	Pass	5.30	21.54	21.15	24.36	30.00	29.66	36.00
5745MHz	Pass	5.30	21.39	21.67	24.54	30.00	29.84	36.00
5785MHz	Pass	5.30	21.56	21.63	24.61	30.00	29.91	36.00
5825MHz	Pass	5.30	21.13	21.63	24.40	30.00	29.70	36.00
802.11ac VHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5190MHz	Pass	5.30	18.40	18.41	21.42	30.00	26.72	36.00
5230MHz	Pass	5.30	21.90	21.93	24.93	30.00	30.23	36.00
5755MHz	Pass	5.30	21.74	22.24	25.01	30.00	30.31	36.00
5795MHz	Pass	5.30	21.56	21.66	24.62	30.00	29.92	36.00
802.11ac VHT80_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5210MHz	Pass	5.30	15.57	15.58	18.59	30.00	23.89	36.00
5775MHz	Pass	5.30	18.63	18.96	21.81	30.00	27.11	36.00
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5180MHz	Pass	5.30	20.06	20.33	23.21	30.00	28.51	36.00
5200MHz	Pass	5.30	20.63	20.74	23.70	30.00	29.00	36.00
5240MHz	Pass	5.30	21.65	21.41	24.54	30.00	29.84	36.00
5745MHz	Pass	5.30	21.67	21.98	24.84	30.00	30.14	36.00
5785MHz	Pass	5.30	21.72	22.08	24.91	30.00	30.21	36.00
5825MHz	Pass	5.30	21.57	21.87	24.73	30.00	30.03	36.00
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5190MHz	Pass	5.30	18.51	18.54	21.54	30.00	26.84	36.00
5230MHz	Pass	5.30	22.02	21.90	24.97	30.00	30.27	36.00
5755MHz	Pass	5.30	21.93	22.17	25.06	30.00	30.36	36.00
5795MHz	Pass	5.30	21.94	22.36	25.17	30.00	30.47	36.00
802.11ax HEW80_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5210MHz	Pass	5.30	15.95	15.73	18.85	30.00	24.15	36.00
5775MHz	Pass	5.30	18.98	19.35	22.18	30.00	27.48	36.00

DG = Directional Gain; Port X = Port X output power

**Summary**

Mode	Total Power (dBm)	Total Power (W)	EIRP (dBm)	EIRP (W)
5.15-5.25GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	20.89	0.12274	26.19	0.41591
802.11n HT20_Nss1,(MCS0)_2TX	21.35	0.13646	26.65	0.46238
802.11n HT40_Nss1,(MCS0)_2TX	24.22	0.26424	29.52	0.89536
802.11ac VHT20_Nss1,(MCS0)_2TX	21.38	0.13740	26.68	0.46559
802.11ac VHT40_Nss1,(MCS0)_2TX	24.23	0.26485	29.53	0.89743
802.11ac VHT80_Nss1,(MCS0)_2TX	19.53	0.08974	24.83	0.30409
802.11ax HEW20_Nss1,(MCS0)_2TX	21.91	0.15524	27.21	0.52602
802.11ax HEW40_Nss1,(MCS0)_2TX	24.29	0.26853	29.59	0.90991
802.11ax HEW80_Nss1,(MCS0)_2TX	19.86	0.09683	25.16	0.32810
5.725-5.85GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	26.36	0.43251	31.66	1.46555
802.11n HT20_Nss1,(MCS0)_2TX	24.95	0.31261	30.25	1.05925
802.11n HT40_Nss1,(MCS0)_2TX	25.45	0.35075	30.75	1.18850
802.11ac VHT20_Nss1,(MCS0)_2TX	24.98	0.31477	30.28	1.06660
802.11ac VHT40_Nss1,(MCS0)_2TX	25.49	0.35400	30.79	1.19950
802.11ac VHT80_Nss1,(MCS0)_2TX	22.83	0.19187	28.13	0.65013
802.11ax HEW20_Nss1,(MCS0)_2TX	25.39	0.34594	30.69	1.17220
802.11ax HEW40_Nss1,(MCS0)_2TX	25.55	0.35892	30.85	1.21619
802.11ax HEW80_Nss1,(MCS0)_2TX	22.95	0.19724	28.25	0.66834



Average Power_Non-Beamforming_Radio3

Appendix C.3

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-	-
5180MHz	Pass	5.30	18.12	16.61	20.44	30.00	25.74	36.00
5200MHz	Pass	5.30	18.63	16.96	20.89	30.00	26.19	36.00
5240MHz	Pass	5.30	18.00	17.45	20.74	30.00	26.04	36.00
5745MHz	Pass	5.30	24.48	21.81	26.36	30.00	31.66	36.00
5785MHz	Pass	5.30	23.02	22.13	25.61	30.00	30.91	36.00
5825MHz	Pass	5.30	22.37	21.82	25.11	30.00	30.41	36.00
802.11n HT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5180MHz	Pass	5.30	17.36	17.09	20.24	30.00	25.54	36.00
5200MHz	Pass	5.30	18.49	18.19	21.35	30.00	26.65	36.00
5240MHz	Pass	5.30	17.32	17.42	20.38	30.00	25.68	36.00
5745MHz	Pass	5.30	21.90	21.69	24.81	30.00	30.11	36.00
5785MHz	Pass	5.30	22.00	21.87	24.95	30.00	30.25	36.00
5825MHz	Pass	5.30	21.92	21.69	24.82	30.00	30.12	36.00
802.11n HT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5190MHz	Pass	5.30	17.15	16.93	20.05	30.00	25.35	36.00
5230MHz	Pass	5.30	21.34	21.08	24.22	30.00	29.52	36.00
5755MHz	Pass	5.30	22.28	22.08	25.19	30.00	30.49	36.00
5795MHz	Pass	5.30	22.60	22.27	25.45	30.00	30.75	36.00
802.11ac VHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5180MHz	Pass	5.30	17.35	17.12	20.25	30.00	25.55	36.00
5200MHz	Pass	5.30	18.47	18.26	21.38	30.00	26.68	36.00
5240MHz	Pass	5.30	17.52	17.26	20.40	30.00	25.70	36.00
5745MHz	Pass	5.30	21.86	21.76	24.82	30.00	30.12	36.00
5785MHz	Pass	5.30	22.04	21.90	24.98	30.00	30.28	36.00
5825MHz	Pass	5.30	21.98	21.71	24.86	30.00	30.16	36.00
802.11ac VHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5190MHz	Pass	5.30	17.26	16.89	20.09	30.00	25.39	36.00
5230MHz	Pass	5.30	21.35	21.09	24.23	30.00	29.53	36.00
5755MHz	Pass	5.30	22.25	22.14	25.21	30.00	30.51	36.00
5795MHz	Pass	5.30	22.65	22.30	25.49	30.00	30.79	36.00
802.11ac VHT80_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5210MHz	Pass	5.30	16.59	16.44	19.53	30.00	24.83	36.00
5775MHz	Pass	5.30	19.90	19.73	22.83	30.00	28.13	36.00
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5180MHz	Pass	5.30	17.20	17.62	20.43	30.00	25.73	36.00
5200MHz	Pass	5.30	19.04	18.76	21.91	30.00	27.21	36.00
5240MHz	Pass	5.30	17.99	17.96	20.99	30.00	26.29	36.00
5745MHz	Pass	5.30	22.28	22.04	25.17	30.00	30.47	36.00
5785MHz	Pass	5.30	22.49	22.26	25.39	30.00	30.69	36.00
5825MHz	Pass	5.30	22.27	22.13	25.21	30.00	30.51	36.00
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5190MHz	Pass	5.30	17.39	17.05	20.23	30.00	25.53	36.00
5230MHz	Pass	5.30	21.47	21.08	24.29	30.00	29.59	36.00
5755MHz	Pass	5.30	22.41	22.31	25.37	30.00	30.67	36.00
5795MHz	Pass	5.30	22.71	22.36	25.55	30.00	30.85	36.00
802.11ax HEW80_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5210MHz	Pass	5.30	16.95	16.74	19.86	30.00	25.16	36.00
5775MHz	Pass	5.30	19.77	20.10	22.95	30.00	28.25	36.00

DG = Directional Gain; Port X = Port X output power

**Summary**

Mode	Total Power (dBm)	Total Power (W)	EIRP (dBm)	EIRP (W)
5.15-5.25GHz	-	-	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	24.31	0.26977	32.62	1.82810
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	24.94	0.31189	33.25	2.11349
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	23.12	0.20512	31.43	1.38995
5.725-5.85GHz	-	-	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	24.40	0.27542	32.71	1.86638
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	24.97	0.31405	33.28	2.12814
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	23.90	0.24547	32.21	1.66341

**Result**

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5180MHz	Pass	8.31	19.51	19.33	22.43	27.69	30.74	36.00
5200MHz	Pass	8.31	21.18	21.41	24.31	27.69	32.62	36.00
5240MHz	Pass	8.31	21.23	21.35	24.30	27.69	32.61	36.00
5745MHz	Pass	8.31	21.03	21.24	24.15	27.69	32.46	36.00
5785MHz	Pass	8.31	21.3	21.47	24.40	27.69	32.71	36.00
5825MHz	Pass	8.31	21.14	21.22	24.19	27.69	32.50	36.00
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5190MHz	Pass	8.31	18.92	18.72	21.83	27.69	30.14	36.00
5230MHz	Pass	8.31	21.85	22.01	24.94	27.69	33.25	36.00
5755MHz	Pass	8.31	21.69	21.96	24.84	27.69	33.15	36.00
5795MHz	Pass	8.31	21.86	22.06	24.97	27.69	33.28	36.00
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5210MHz	Pass	8.31	20.10	20.12	23.12	27.69	31.43	36.00
5775MHz	Pass	8.31	20.77	21	23.90	27.69	32.21	36.00

DG = Directional Gain; Port X = Port X output power



Average Power
Beamforming_Radio2(Low Band)+Radio3(High Band)

Appendix C.5

Summary

Mode	Total Power (dBm)	Total Power (W)	EIRP (dBm)	EIRP (W)
5.15-5.25GHz	-	-	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	24.41	0.27606	32.72	1.87068
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	24.83	0.30409	33.14	2.06063
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	18.73	0.07464	27.04	0.50582
5.725-5.85GHz	-	-	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	24.79	0.30130	33.05	2.01837
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	25.04	0.31915	33.30	2.13796
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	22.05	0.16032	30.31	1.07399



Average Power
Beamforming_Radio2(Low Band)+Radio3(High Band)

Appendix C.5

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5180MHz	Pass	8.31	19.93	20.18	23.07	27.69	31.38	36.00
5200MHz	Pass	8.31	20.52	20.6	23.57	27.69	31.88	36.00
5240MHz	Pass	8.31	21.52	21.27	24.41	27.69	32.72	36.00
5745MHz	Pass	8.26	21.54	21.88	24.72	27.74	32.98	36.00
5785MHz	Pass	8.26	21.62	21.94	24.79	27.74	33.05	36.00
5825MHz	Pass	8.26	21.43	21.74	24.60	27.74	32.86	36.00
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5190MHz	Pass	8.31	18.39	18.39	21.40	27.69	29.71	36.00
5230MHz	Pass	8.31	21.89	21.75	24.83	27.69	33.14	36.00
5755MHz	Pass	8.26	21.79	22.04	24.93	27.74	33.19	36.00
5795MHz	Pass	8.26	21.84	22.22	25.04	27.74	33.30	36.00
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5210MHz	Pass	8.31	15.84	15.59	18.73	27.69	27.04	36.00
5775MHz	Pass	8.26	18.87	19.21	22.05	27.74	30.31	36.00

DG = Directional Gain; Port X = Port X output power

**Summary**

Mode	Total Power (dBm)	Total Power (W)	EIRP (dBm)	EIRP (W)
5.15-5.25GHz	-	-	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	21.79	0.15101	30.05	1.01158
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	24.17	0.26122	32.43	1.74985
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	19.73	0.09397	27.99	0.62951
5.725-5.85GHz	-	-	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	25.26	0.33574	33.52	2.24905
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	25.44	0.34995	33.70	2.34423
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	22.82	0.19143	31.08	1.28233

**Result**

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5180MHz	Pass	8.26	17.08	17.51	20.31	27.74	28.57	36.00
5200MHz	Pass	8.26	18.92	18.63	21.79	27.74	30.05	36.00
5240MHz	Pass	8.26	17.88	17.82	20.86	27.74	29.12	36.00
5745MHz	Pass	8.26	22.16	21.89	25.04	27.74	33.30	36.00
5785MHz	Pass	8.26	22.38	22.12	25.26	27.74	33.52	36.00
5825MHz	Pass	8.26	22.12	22.03	25.09	27.74	33.35	36.00
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5190MHz	Pass	8.26	17.26	16.93	20.11	27.74	28.37	36.00
5230MHz	Pass	8.26	21.33	20.98	24.17	27.74	32.43	36.00
5755MHz	Pass	8.26	22.27	22.17	25.23	27.74	33.49	36.00
5795MHz	Pass	8.26	22.59	22.26	25.44	27.74	33.70	36.00
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5210MHz	Pass	8.26	16.81	16.63	19.73	27.74	27.99	36.00
5775MHz	Pass	8.26	19.62	19.99	22.82	27.74	31.08	36.00

DG = Directional Gain; Port X = Port X output power



Summary

Mode	PD (dBm/RBW)	EIRP PD (dBm/RBW)
5.15-5.25GHz	-	-
802.11a_Nss1,(6Mbps)_2TX	12.40	20.71
802.11n HT20_Nss1,(MCS0)_2TX	10.78	19.09
802.11n HT40_Nss1,(MCS0)_2TX	9.22	17.53
802.11ac VHT20_Nss1,(MCS0)_2TX	10.77	19.08
802.11ac VHT40_Nss1,(MCS0)_2TX	8.91	17.22
802.11ac VHT80_Nss1,(MCS0)_2TX	4.58	12.89
802.11ax HEW20_Nss1,(MCS0)_2TX	11.29	19.60
802.11ax HEW40_Nss1,(MCS0)_2TX	9.11	17.42
802.11ax HEW80_Nss1,(MCS0)_2TX	4.60	12.91
5.725-5.85GHz	-	-
802.11a_Nss1,(6Mbps)_2TX	10.85	19.16
802.11n HT20_Nss1,(MCS0)_2TX	9.48	17.79
802.11n HT40_Nss1,(MCS0)_2TX	7.31	15.62
802.11ac VHT20_Nss1,(MCS0)_2TX	9.26	17.57
802.11ac VHT40_Nss1,(MCS0)_2TX	7.41	15.72
802.11ac VHT80_Nss1,(MCS0)_2TX	2.94	11.25
802.11ax HEW20_Nss1,(MCS0)_2TX	9.69	18.00
802.11ax HEW40_Nss1,(MCS0)_2TX	7.32	15.63
802.11ax HEW80_Nss1,(MCS0)_2TX	3.45	11.76

RBW = 500kHz for 5.725-5.85GHz band / 1MHz for other band;

Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)	EIRP PD (dBm/RBW)	EIRP PD Limit (dBm/RBW)
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-	-
5180MHz	Pass	8.31	7.58	7.56	10.46	14.69	18.77	23.00
5200MHz	Pass	8.31	9.29	9.54	12.26	14.69	20.57	23.00
5240MHz	Pass	8.31	9.42	9.53	12.40	14.69	20.71	23.00
5745MHz	Pass	8.31	7.64	7.71	10.60	27.69	18.91	36.00
5785MHz	Pass	8.31	7.73	7.98	10.85	27.69	19.16	36.00
5825MHz	Pass	8.31	7.67	7.74	10.63	27.69	18.94	36.00
802.11n HT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5180MHz	Pass	8.31	6.15	6.28	9.14	14.69	17.45	23.00
5200MHz	Pass	8.31	7.53	8.18	10.78	14.69	19.09	23.00
5240MHz	Pass	8.31	7.89	8.09	10.77	14.69	19.08	23.00
5745MHz	Pass	8.31	6.41	6.67	9.48	27.69	17.79	36.00
5785MHz	Pass	8.31	6.29	6.47	9.32	27.69	17.63	36.00
5825MHz	Pass	8.31	6.11	6.57	9.26	27.69	17.57	36.00
802.11n HT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5190MHz	Pass	8.31	3.32	3.33	6.28	14.69	14.59	23.00
5230MHz	Pass	8.31	6.05	6.64	9.22	14.69	17.53	23.00
5755MHz	Pass	8.31	4.23	4.64	7.31	27.69	15.62	36.00
5795MHz	Pass	8.31	4.34	4.33	7.23	27.69	15.54	36.00
802.11ac VHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5180MHz	Pass	8.31	6.06	6.31	9.17	14.69	17.48	23.00
5200MHz	Pass	8.31	7.57	8.02	10.75	14.69	19.06	23.00
5240MHz	Pass	8.31	7.72	7.98	10.77	14.69	19.08	23.00
5745MHz	Pass	8.31	6.26	6.63	9.25	27.69	17.56	36.00
5785MHz	Pass	8.31	6.11	6.64	9.26	27.69	17.57	36.00
5825MHz	Pass	8.31	6.04	6.49	9.25	27.69	17.56	36.00
802.11ac VHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5190MHz	Pass	8.31	2.74	2.72	5.63	14.69	13.94	23.00
5230MHz	Pass	8.31	5.78	6.24	8.91	14.69	17.22	23.00
5755MHz	Pass	8.31	4.44	4.68	7.38	27.69	15.69	36.00
5795MHz	Pass	8.31	4.37	4.59	7.41	27.69	15.72	36.00
802.11ac VHT80_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5210MHz	Pass	8.31	1.62	1.66	4.58	14.69	12.89	23.00
5775MHz	Pass	8.31	-0.12	0.34	2.94	27.69	11.25	36.00
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5180MHz	Pass	8.31	6.60	6.76	9.63	14.69	17.94	23.00
5200MHz	Pass	8.31	8.31	8.38	11.25	14.69	19.56	23.00
5240MHz	Pass	8.31	8.46	8.55	11.29	14.69	19.60	23.00
5745MHz	Pass	8.31	6.45	6.72	9.44	27.69	17.75	36.00
5785MHz	Pass	8.31	6.47	7.07	9.69	27.69	18.00	36.00
5825MHz	Pass	8.31	6.45	6.74	9.56	27.69	17.87	36.00
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5190MHz	Pass	8.31	3.03	3.14	6.05	14.69	14.36	23.00
5230MHz	Pass	8.31	6.06	6.47	9.11	14.69	17.42	23.00
5755MHz	Pass	8.31	4.30	4.45	7.30	27.69	15.61	36.00
5795MHz	Pass	8.31	4.42	4.46	7.32	27.69	15.63	36.00
802.11ax HEW80_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5210MHz	Pass	8.31	1.54	1.89	4.60	14.69	12.91	23.00
5775MHz	Pass	8.31	0.47	0.69	3.45	27.69	11.76	36.00

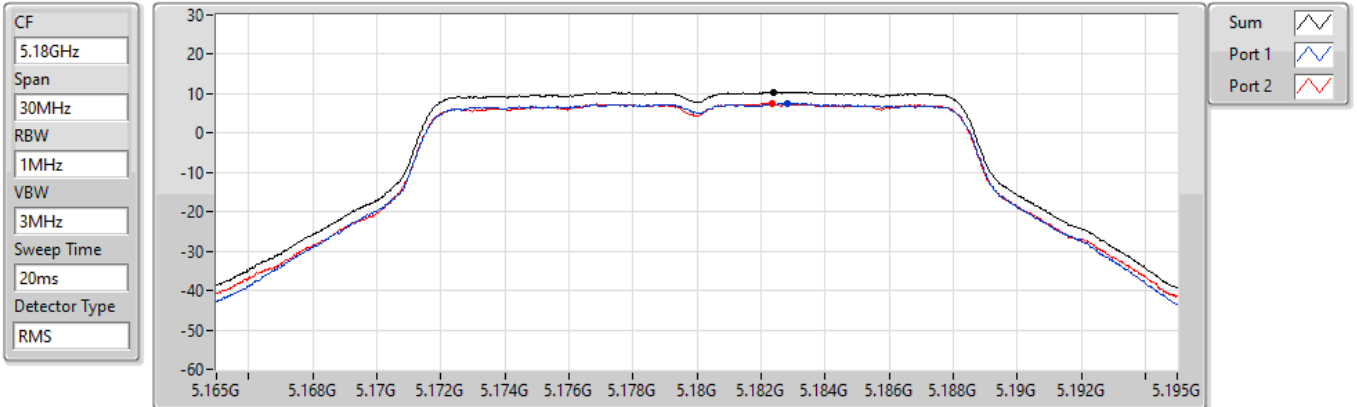
DG = Directional Gain; RBW = 500kHz for 5.725-5.85GHz band / 1MHz for other band;
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; Port X = Port X Power Density;

5.15-5.25GHz_802.11a_Nss1,(6Mbps)_2TX

PSD

5180MHz

14/09/2022

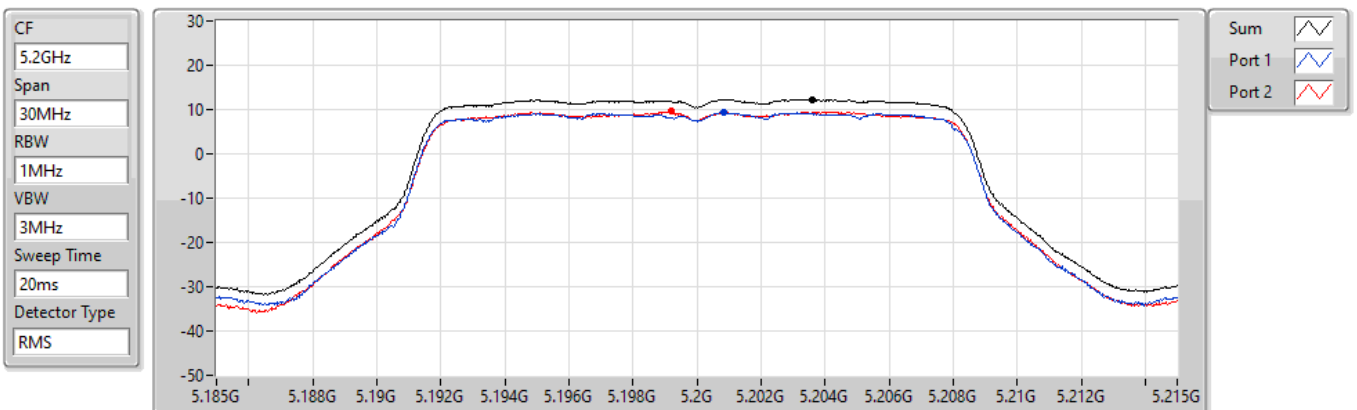


5.15-5.25GHz_802.11a_Nss1,(6Mbps)_2TX

PSD

5200MHz

14/09/2022

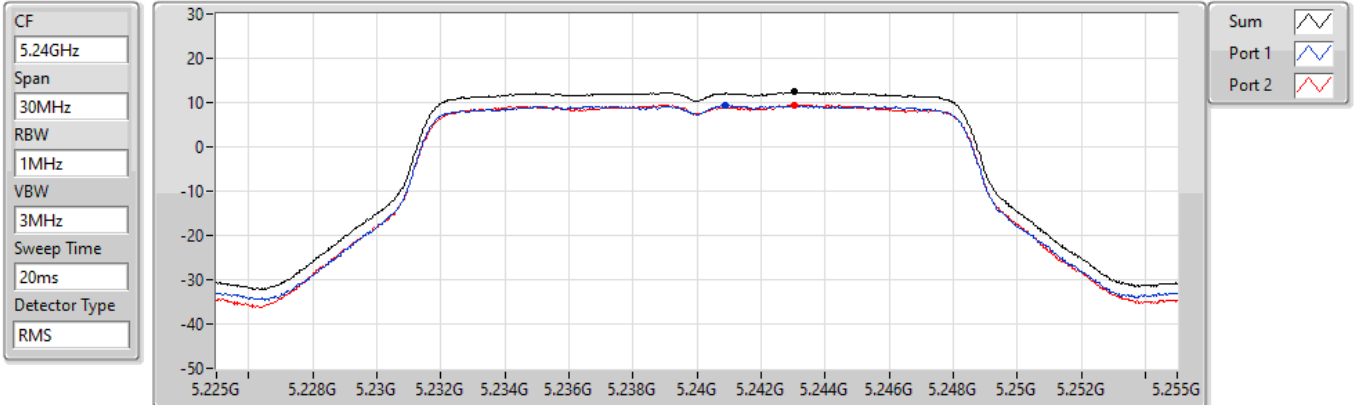


5.15-5.25GHz_802.11a_Nss1,(6Mbps)_2TX

PSD

5240MHz

14/09/2022

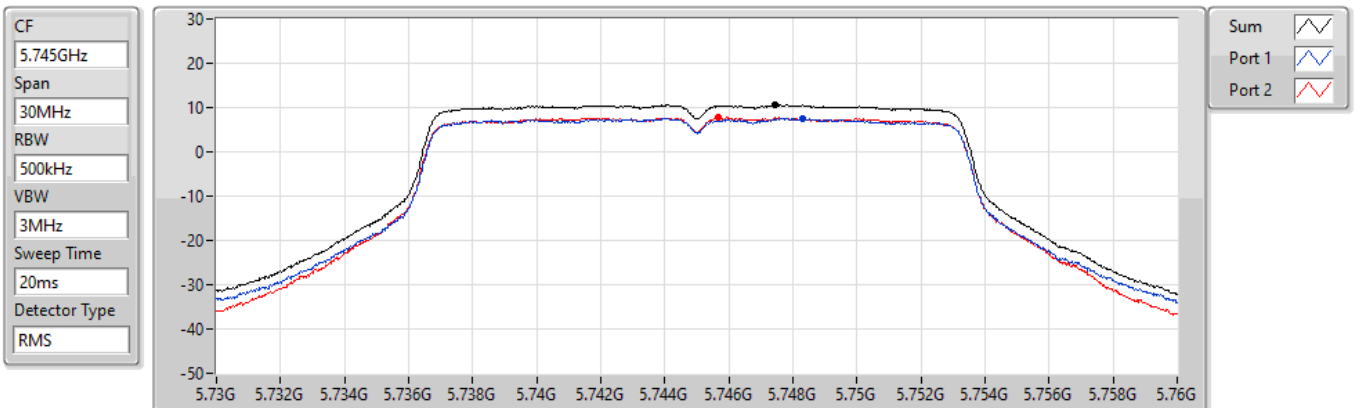


5.725-5.85GHz_802.11a_Nss1,(6Mbps)_2TX

PSD

5745MHz

14/09/2022

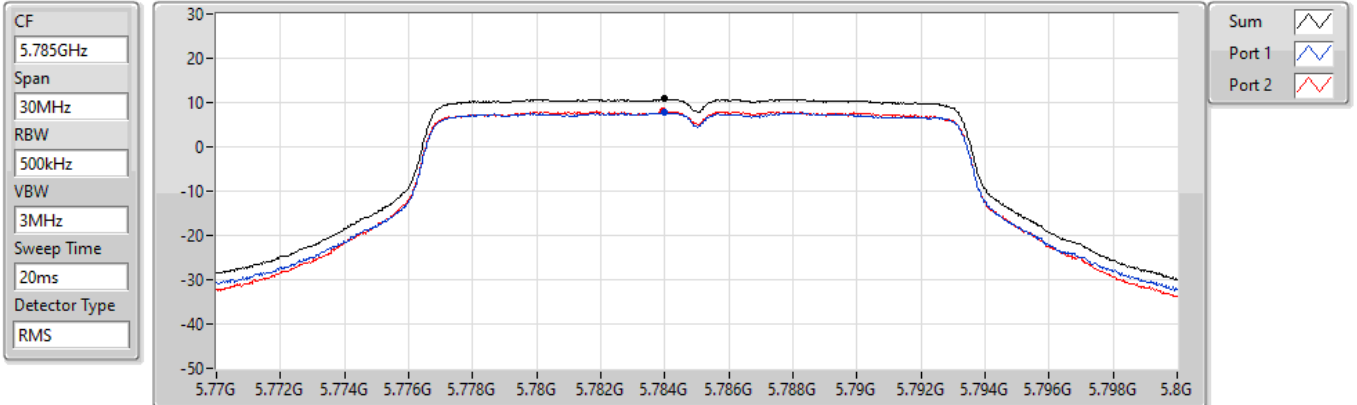


5.725-5.85GHz_802.11a_Nss1,(6Mbps)_2TX

PSD

5785MHz

14/09/2022

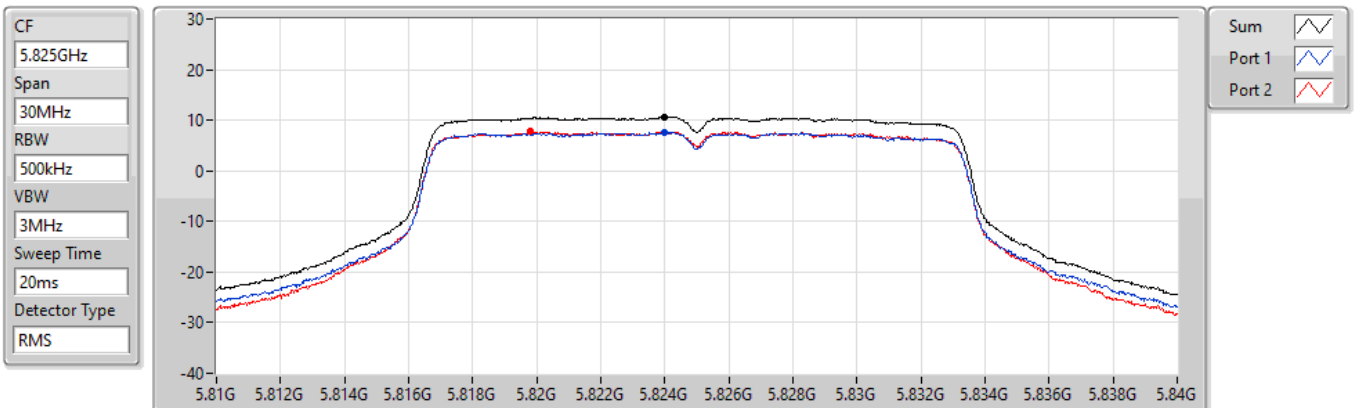


5.725-5.85GHz_802.11a_Nss1,(6Mbps)_2TX

PSD

5825MHz

14/09/2022

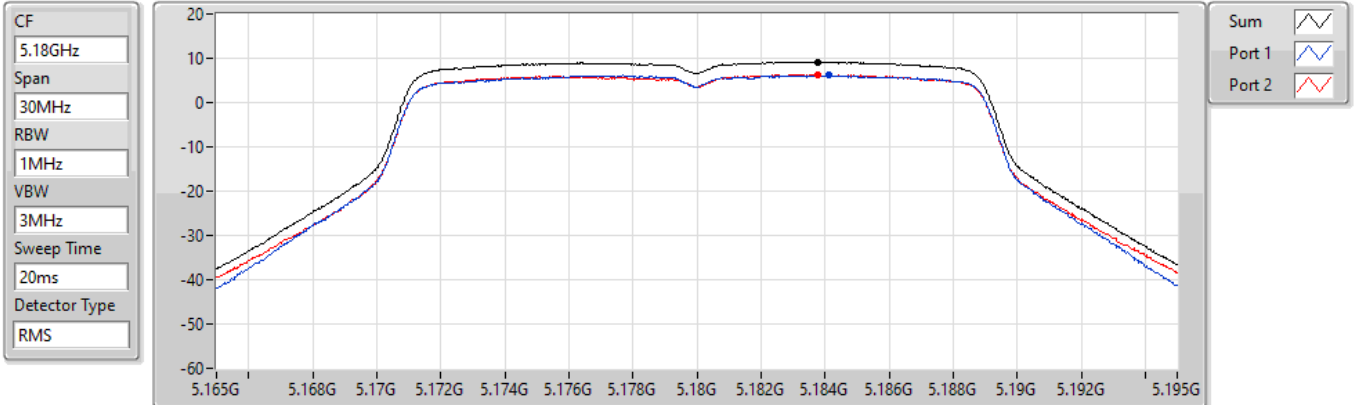


5.15-5.25GHz_802.11n HT20_Nss1,(MCS0)_2TX

PSD

5180MHz

16/09/2022



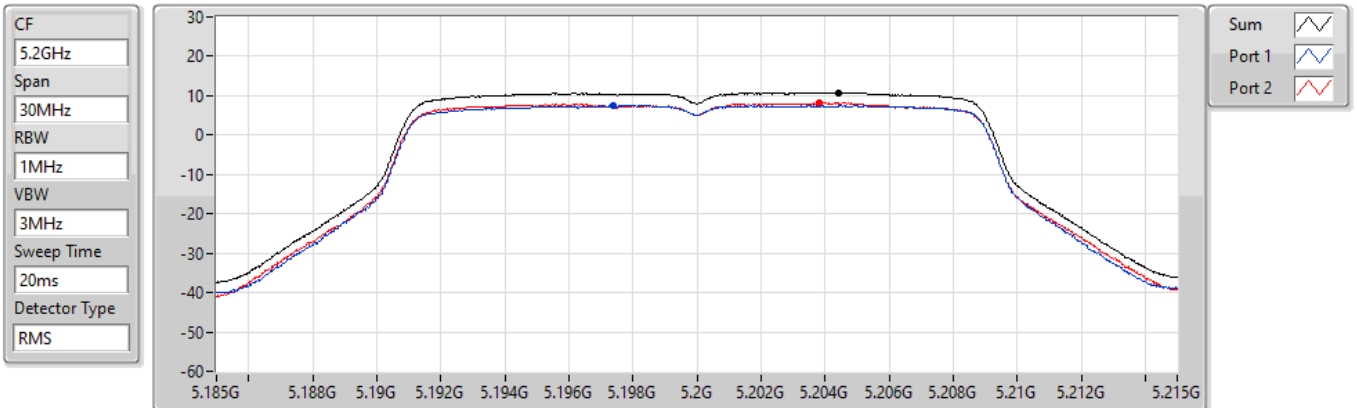
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
9.14	9.14	6.15	6.28

5.15-5.25GHz_802.11n HT20_Nss1,(MCS0)_2TX

PSD

5200MHz

16/09/2022



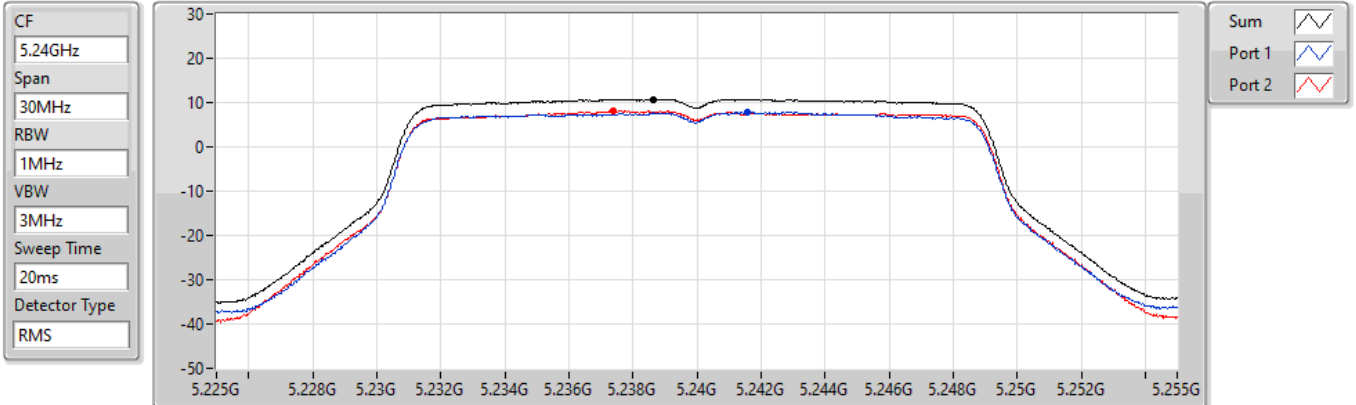
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
10.78	10.78	7.53	8.18

5.15-5.25GHz_802.11n HT20_Nss1,(MCS0)_2TX

PSD

5240MHz

16/09/2022

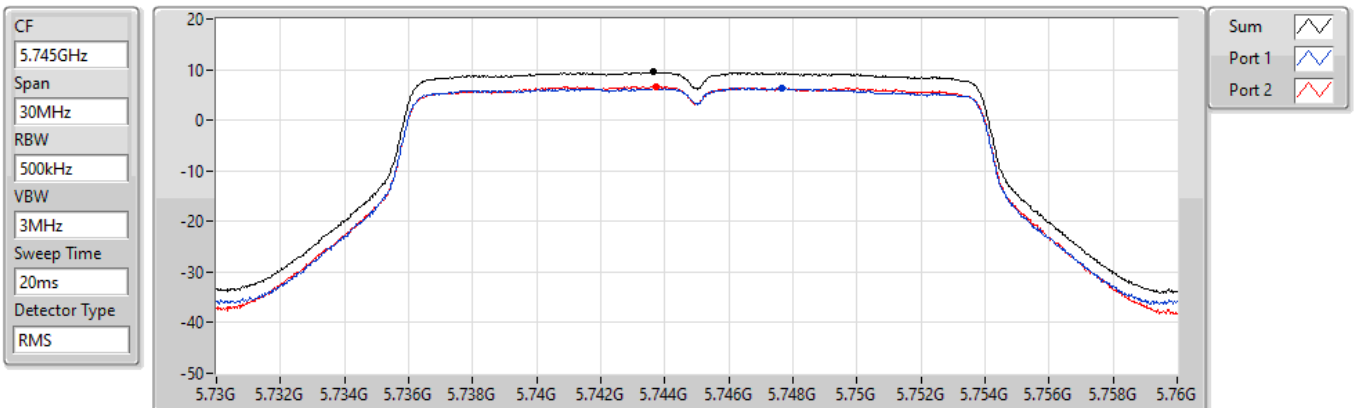


5.725-5.85GHz_802.11n HT20_Nss1,(MCS0)_2TX

PSD

5745MHz

16/09/2022

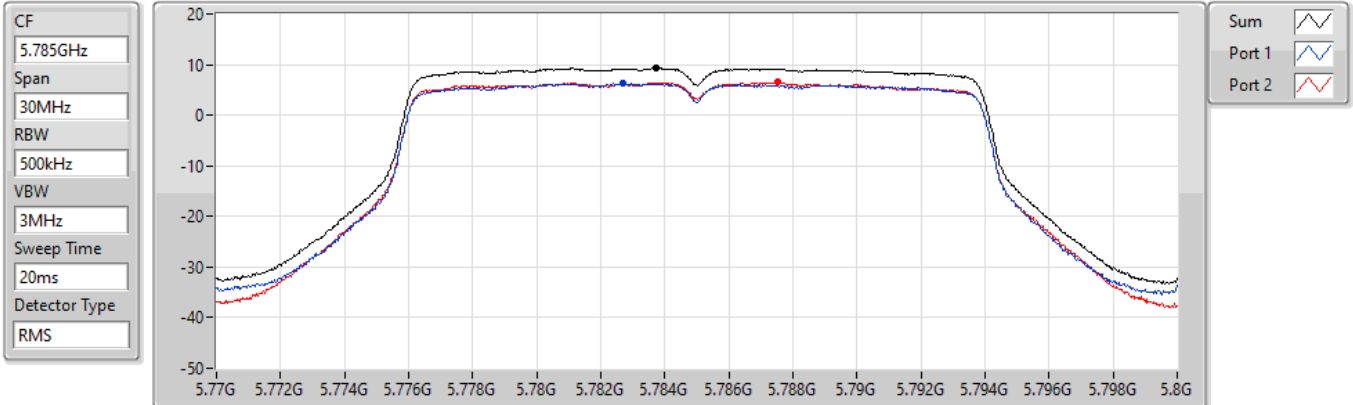


5.725-5.85GHz_802.11n HT20_Nss1,(MCS0)_2TX

PSD

5785MHz

16/09/2022

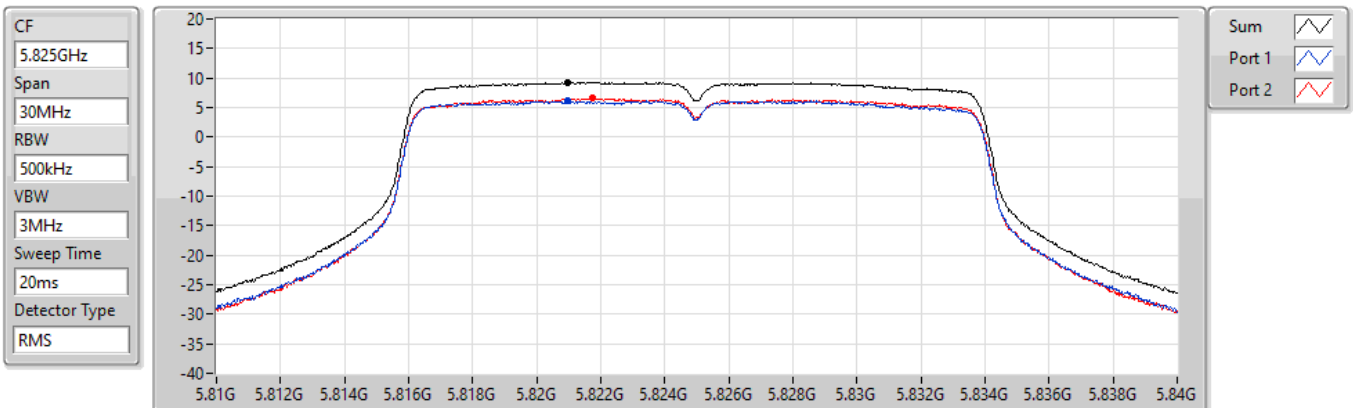


5.725-5.85GHz_802.11n HT20_Nss1,(MCS0)_2TX

PSD

5825MHz

16/09/2022

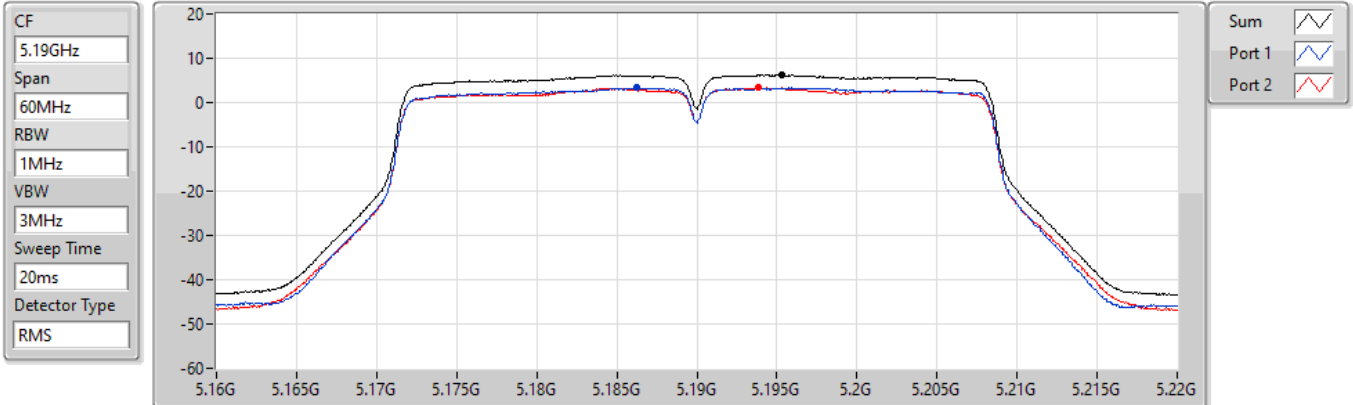


5.15-5.25GHz_802.11n HT40_Nss1,(MCS0)_2TX

PSD

5190MHz

16/09/2022

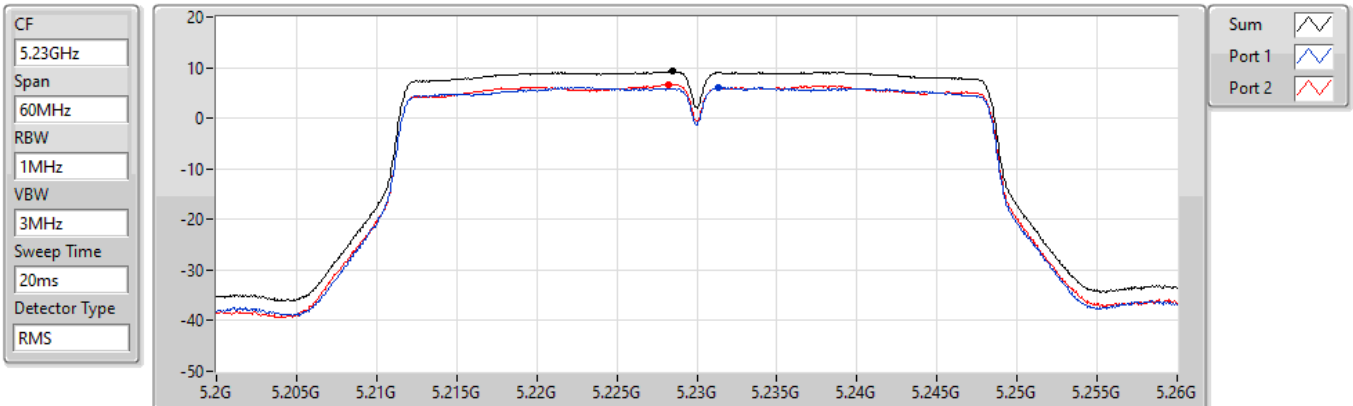


5.15-5.25GHz_802.11n HT40_Nss1,(MCS0)_2TX

PSD

5230MHz

16/09/2022

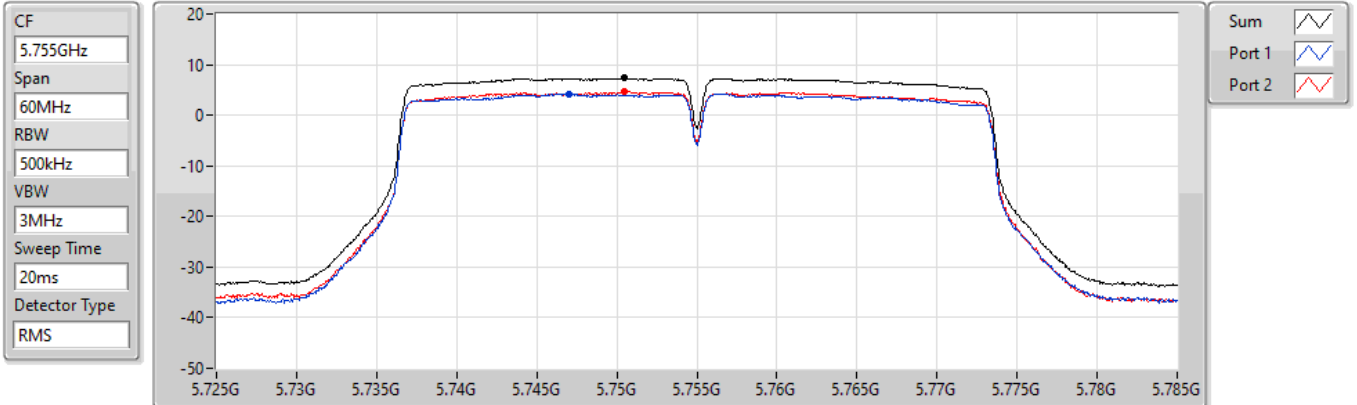


5.725-5.85GHz_802.11n HT40_Nss1,(MCS0)_2TX

PSD

5755MHz

16/09/2022

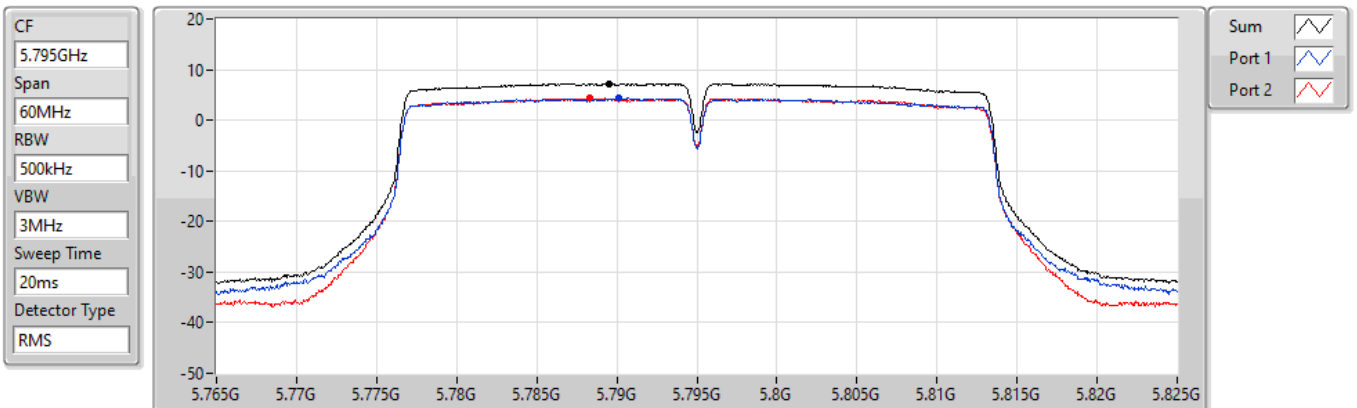


5.725-5.85GHz_802.11n HT40_Nss1,(MCS0)_2TX

PSD

5795MHz

16/09/2022

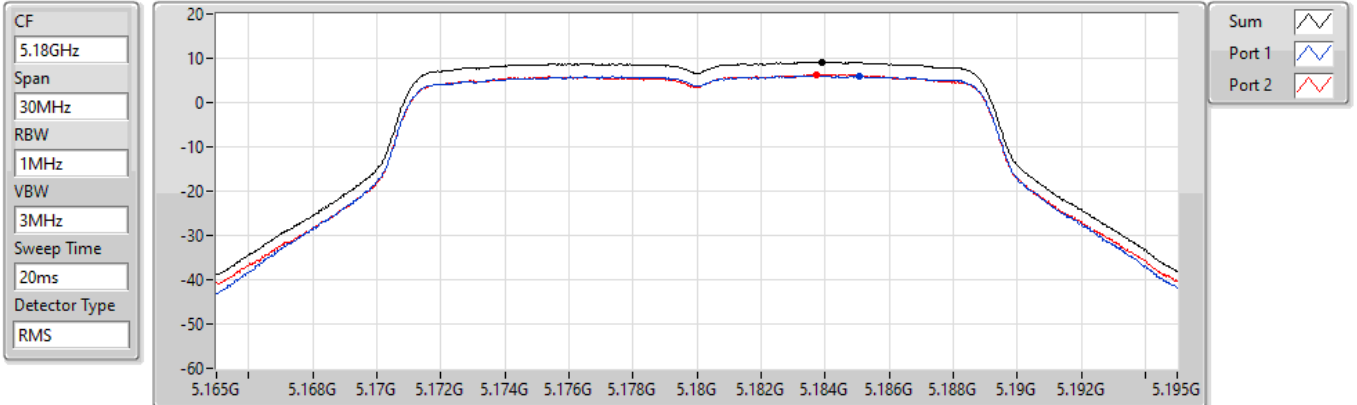


5.15-5.25GHz_802.11ac VHT20_Nss1,(MCS0)_2TX

PSD

5180MHz

16/09/2022

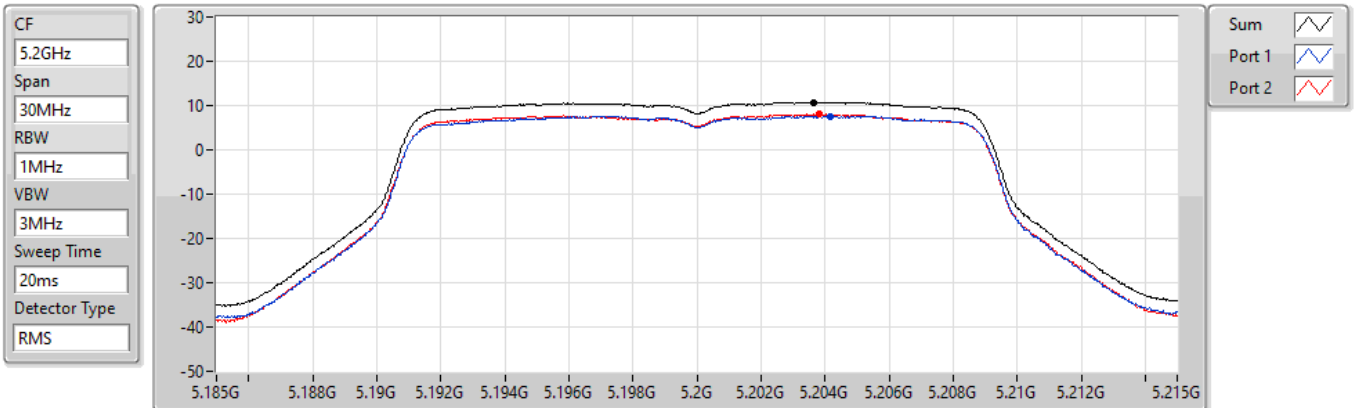


5.15-5.25GHz_802.11ac VHT20_Nss1,(MCS0)_2TX

PSD

5200MHz

16/09/2022

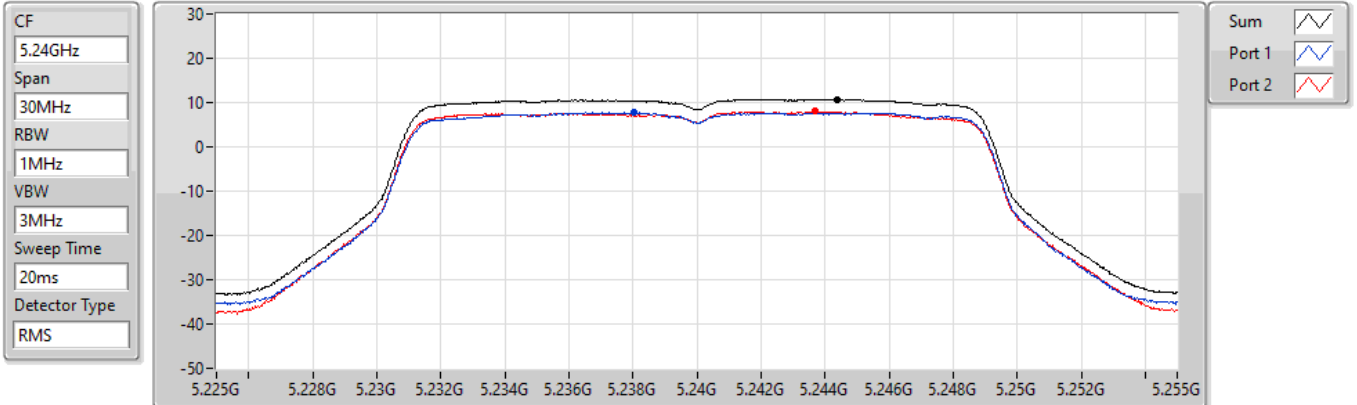


5.15-5.25GHz_802.11ac VHT20_Nss1,(MCS0)_2TX

PSD

5240MHz

16/09/2022

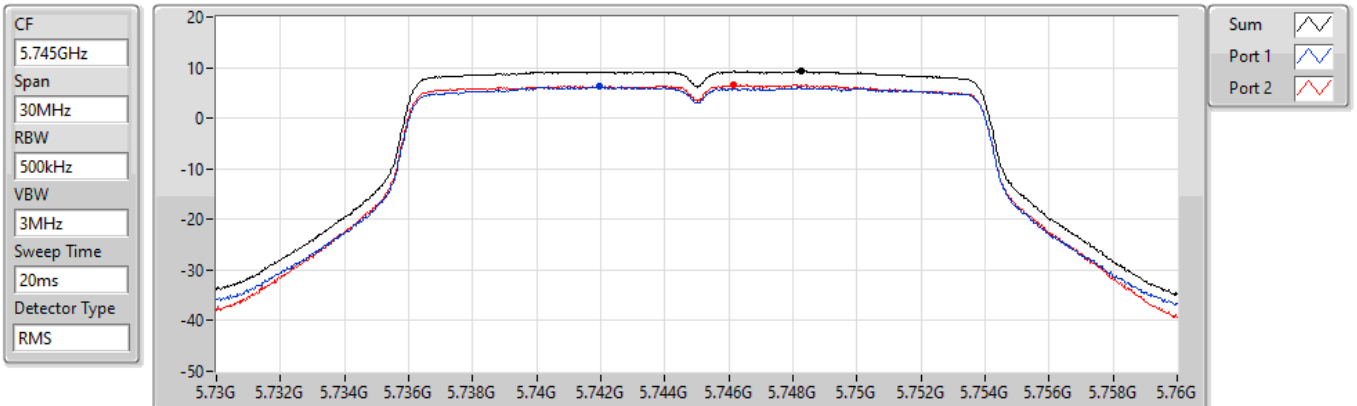


5.725-5.85GHz_802.11ac VHT20_Nss1,(MCS0)_2TX

PSD

5745MHz

16/09/2022

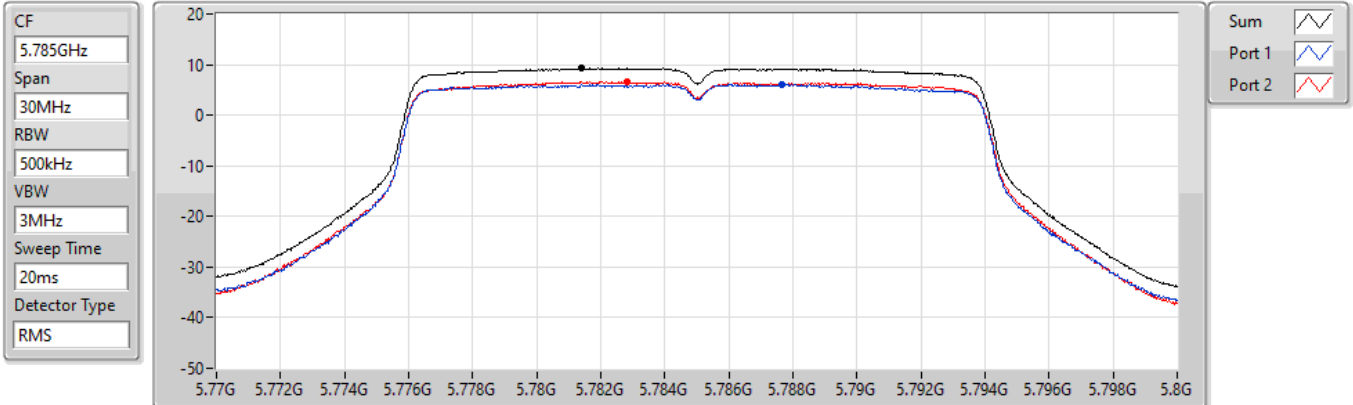


5.725-5.85GHz_802.11ac VHT20_Nss1,(MCS0)_2TX

PSD

5785MHz

16/09/2022

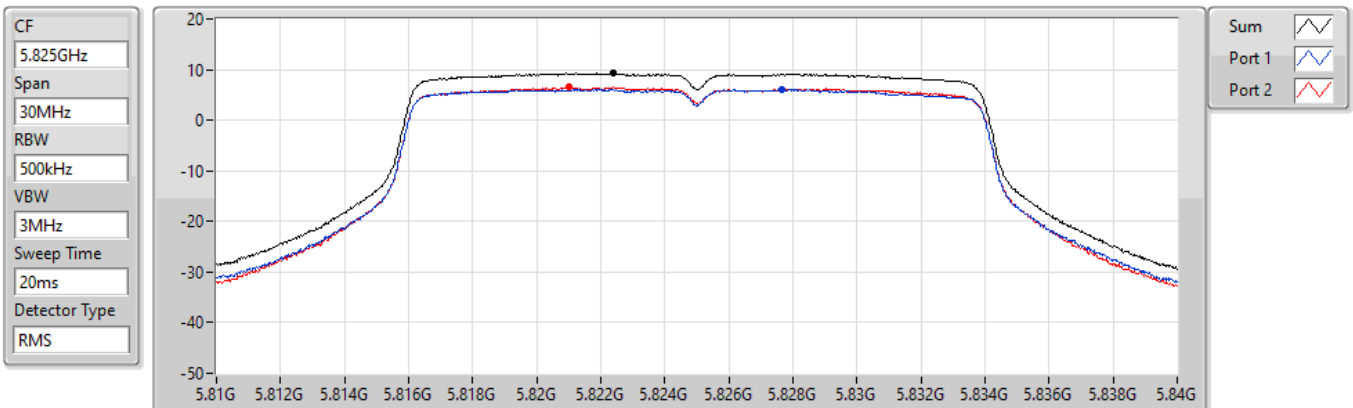


5.725-5.85GHz_802.11ac VHT20_Nss1,(MCS0)_2TX

PSD

5825MHz

16/09/2022

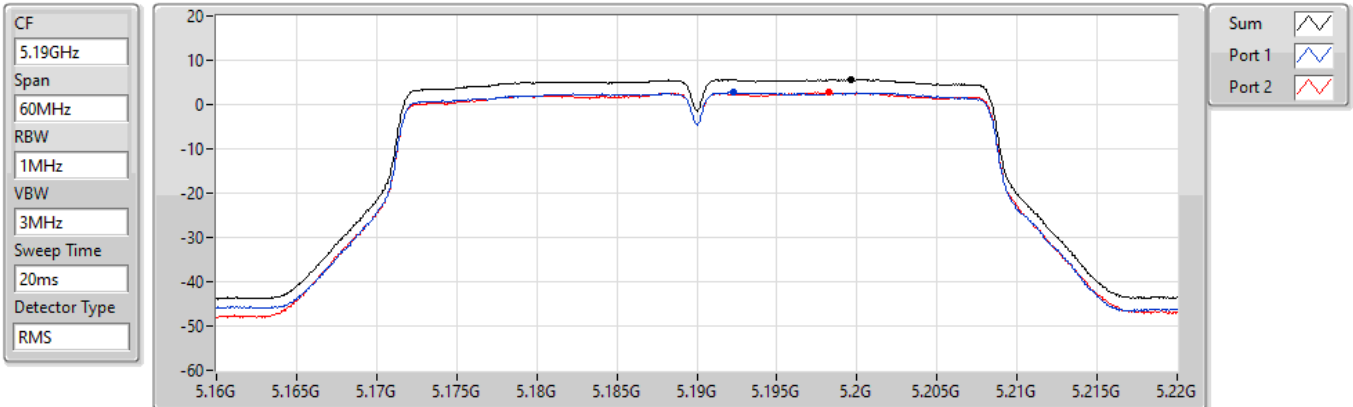


5.15-5.25GHz_802.11ac VHT40_Nss1,(MCS0)_2TX

PSD

5190MHz

16/09/2022

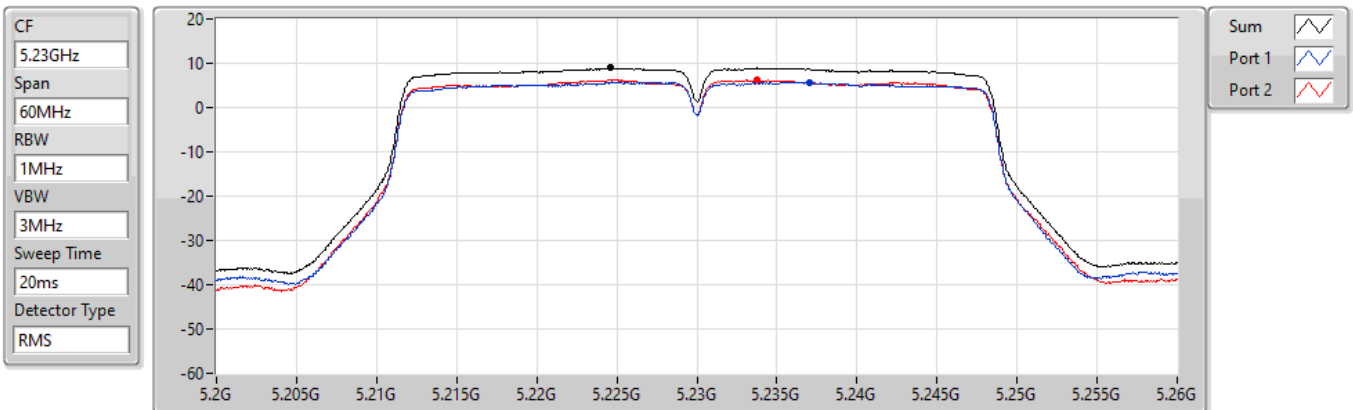


5.15-5.25GHz_802.11ac VHT40_Nss1,(MCS0)_2TX

PSD

5230MHz

16/09/2022

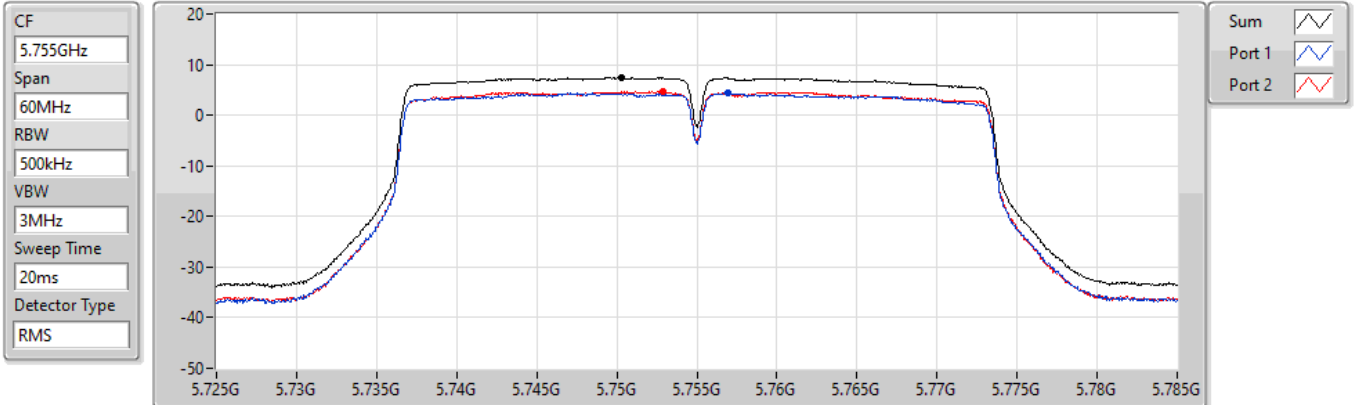


5.725-5.85GHz_802.11ac VHT40_Nss1,(MCS0)_2TX

PSD

5755MHz

16/09/2022

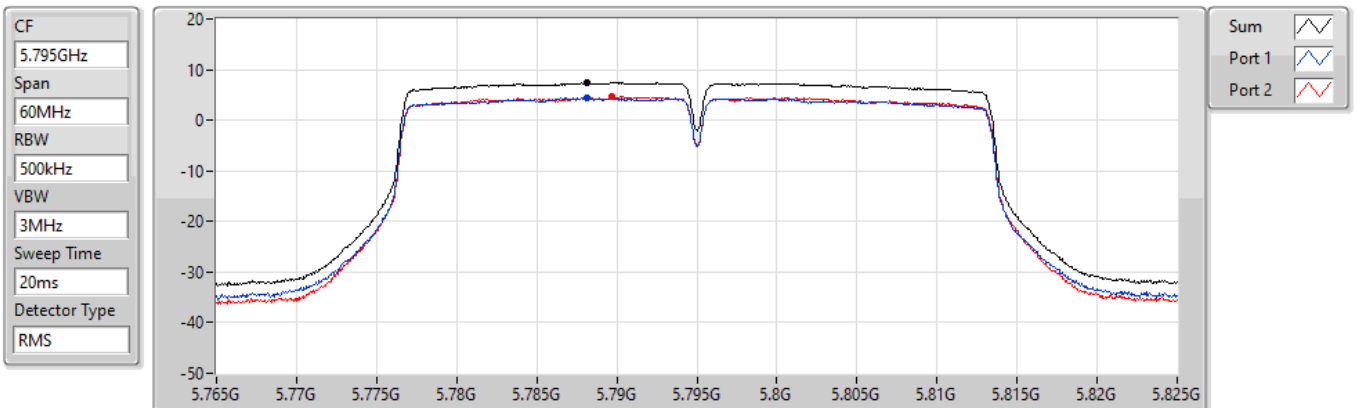


5.725-5.85GHz_802.11ac VHT40_Nss1,(MCS0)_2TX

PSD

5795MHz

16/09/2022

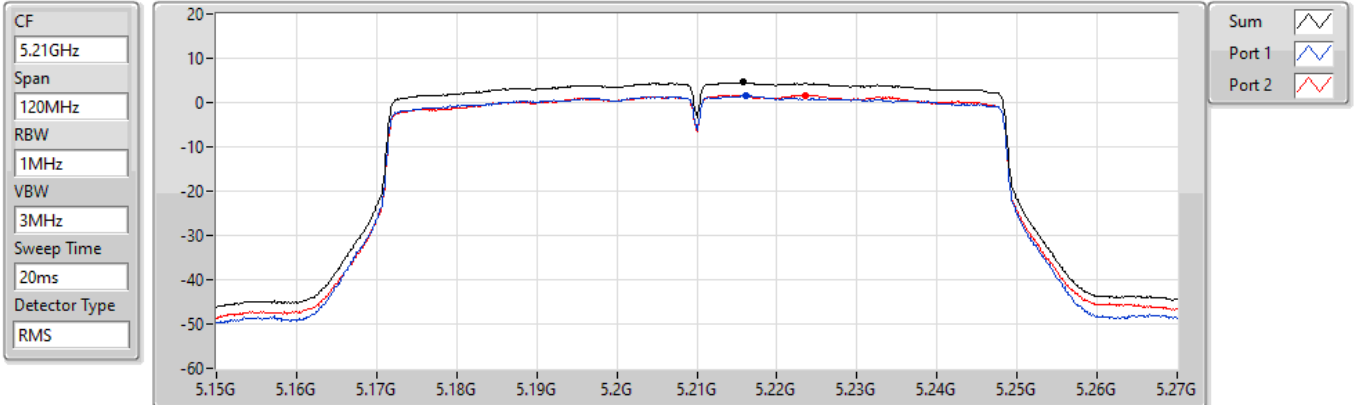


5.15-5.25GHz_802.11ac VHT80_Nss1,(MCS0)_2TX

PSD

5210MHz

19/09/2022



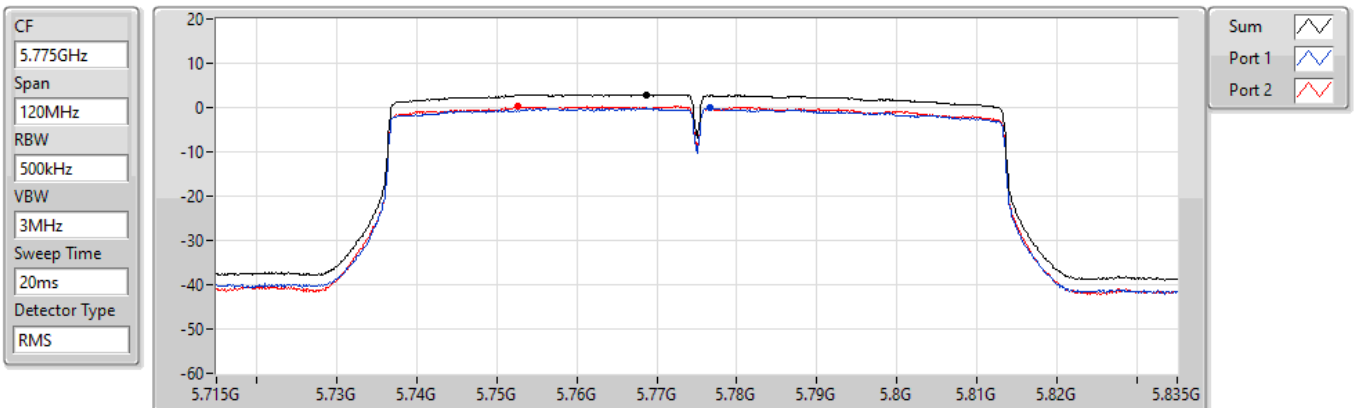
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
4.58	4.58	1.62	1.66

5.725-5.85GHz_802.11ac VHT80_Nss1,(MCS0)_2TX

PSD

5775MHz

16/09/2022



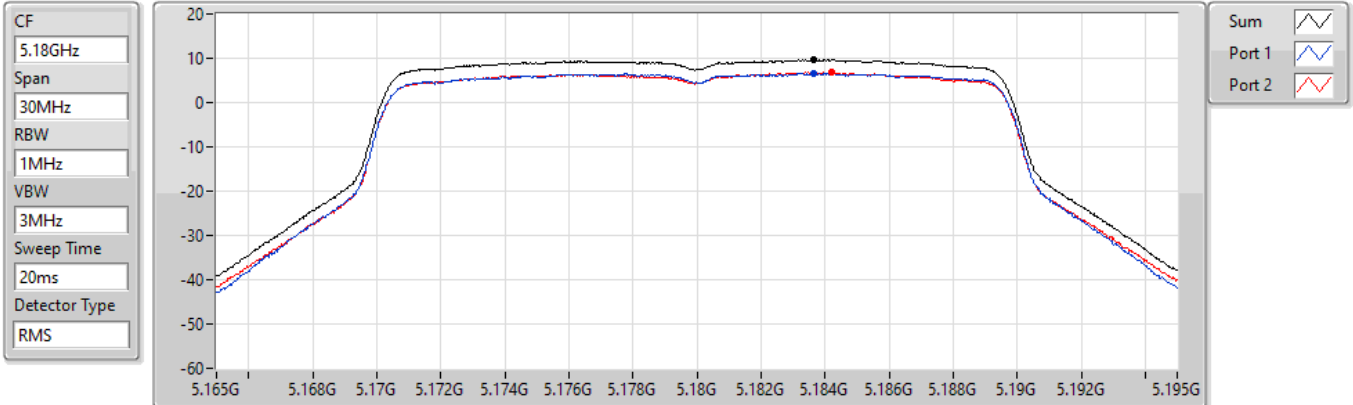
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
2.94	2.94	-0.12	0.34

5.15-5.25GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

PSD

5180MHz

14/09/2022

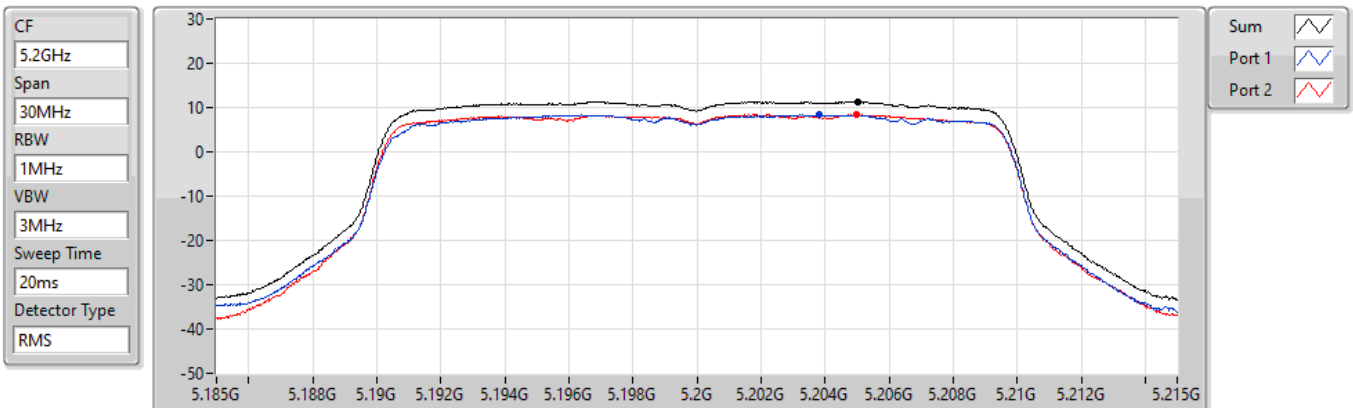


5.15-5.25GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

PSD

5200MHz

14/09/2022

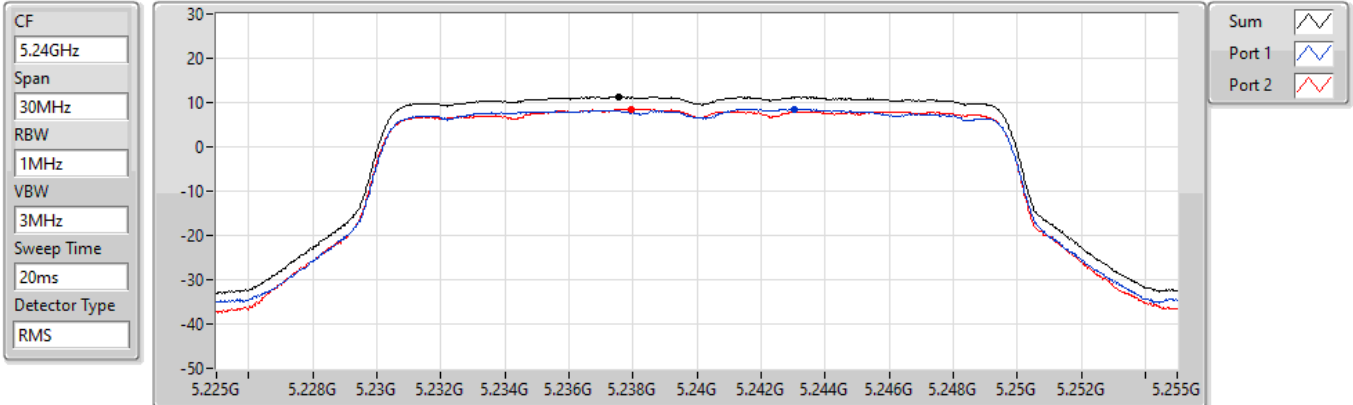


5.15-5.25GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

PSD

5240MHz

14/09/2022

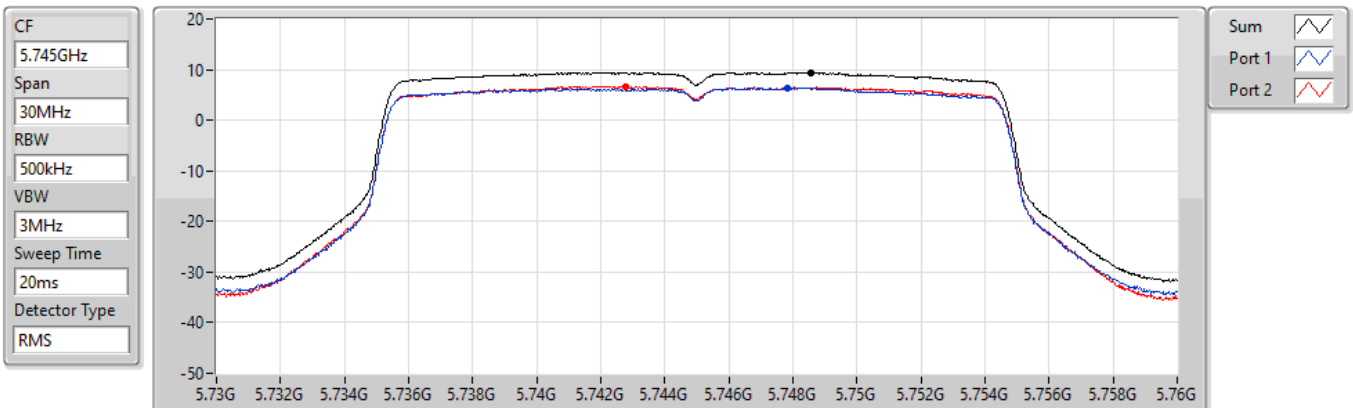


5.725-5.85GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

PSD

5745MHz

14/09/2022

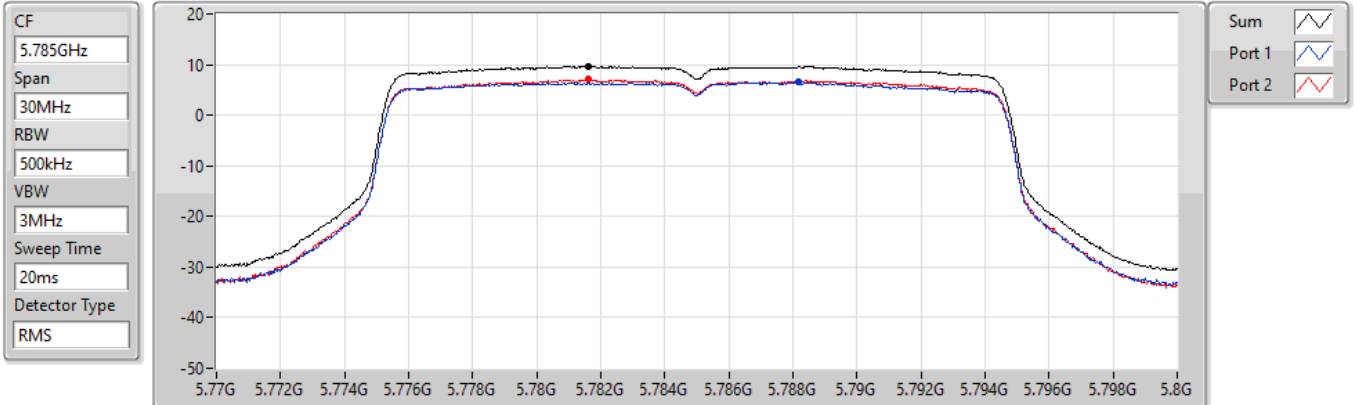


5.725-5.85GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

PSD

5785MHz

14/09/2022

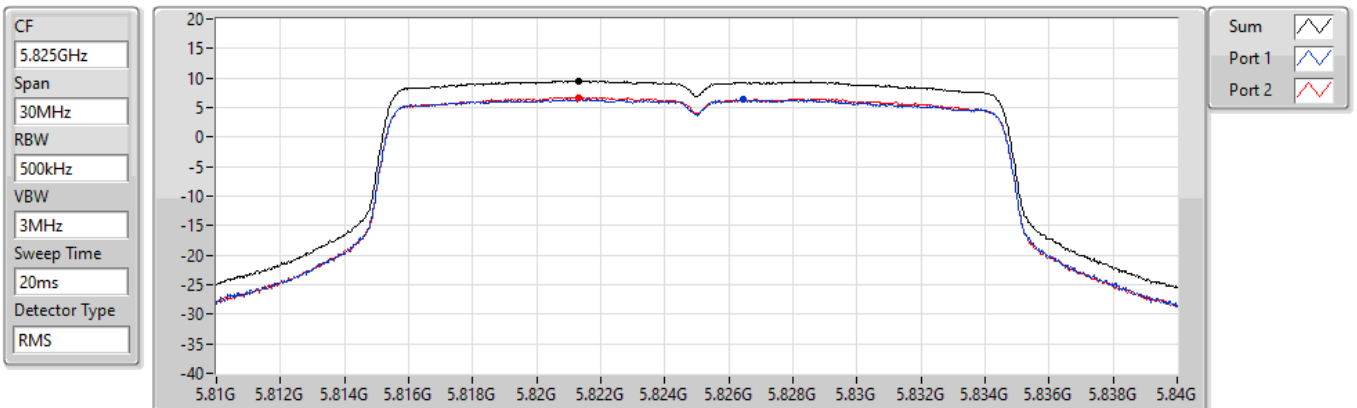


5.725-5.85GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

PSD

5825MHz

14/09/2022

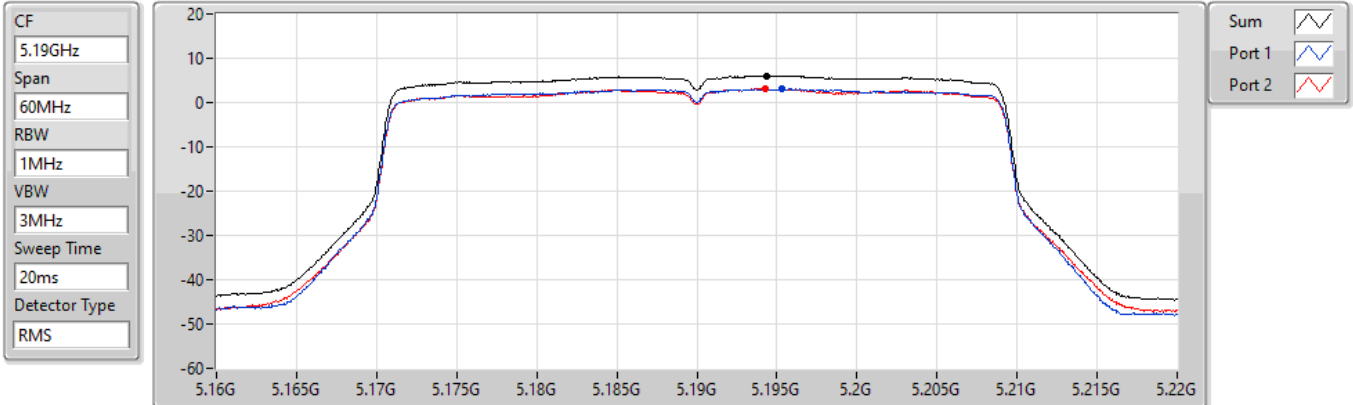


5.15-5.25GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

PSD

5190MHz

14/09/2022



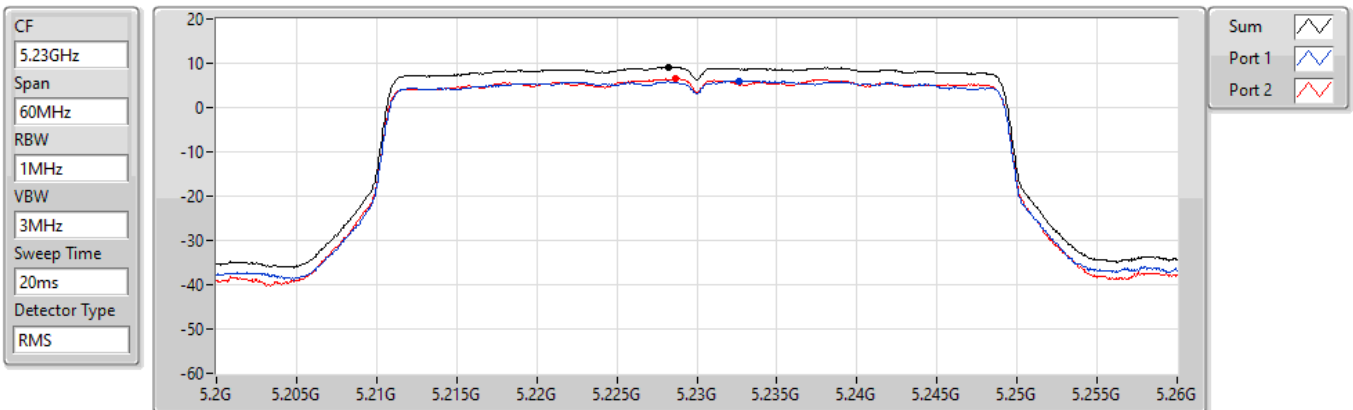
Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
6.05	6.05	3.03	3.14

5.15-5.25GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

PSD

5230MHz

14/09/2022



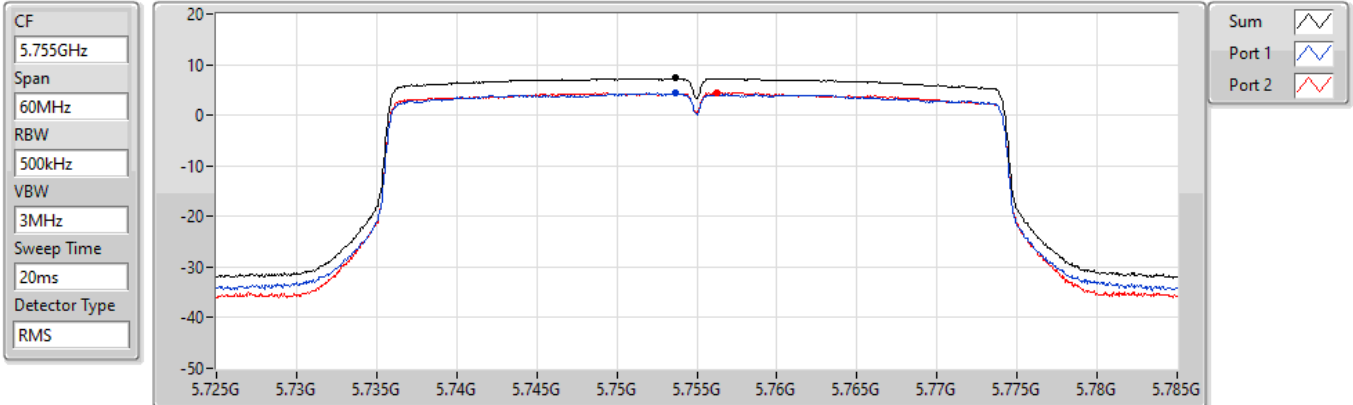
Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
9.11	9.11	6.06	6.47

5.725-5.85GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

PSD

5755MHz

14/09/2022



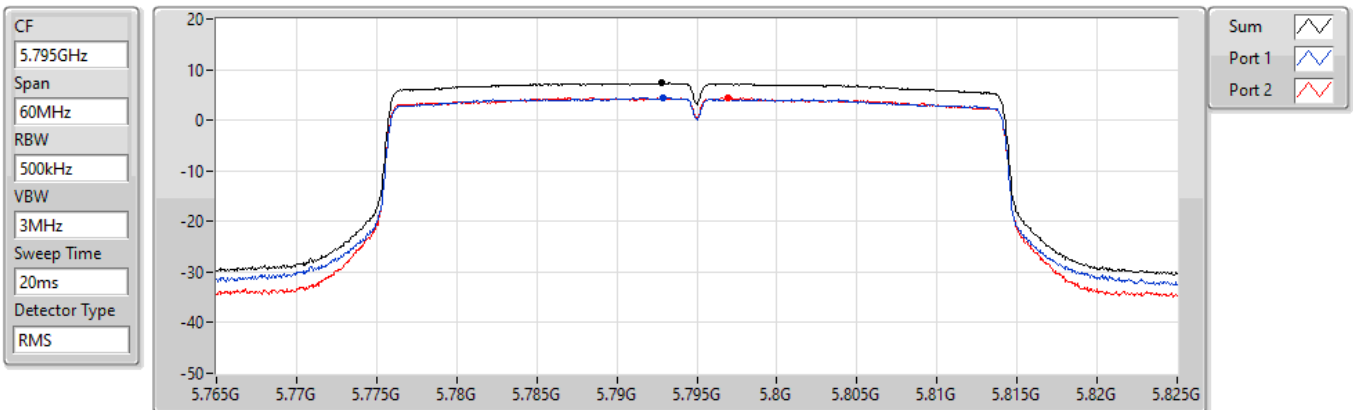
Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
7.30	7.30	4.30	4.45

5.725-5.85GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

PSD

5795MHz

14/09/2022



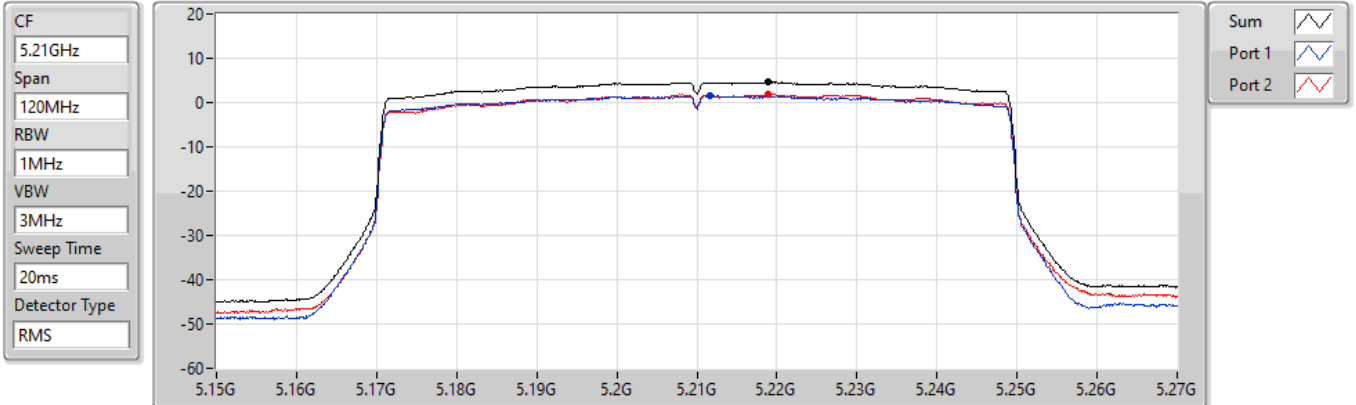
Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
7.32	7.32	4.42	4.46

5.15-5.25GHz_802.11ax HEW80_Nss1,(MCS0)_2TX

PSD

5210MHz

19/09/2022

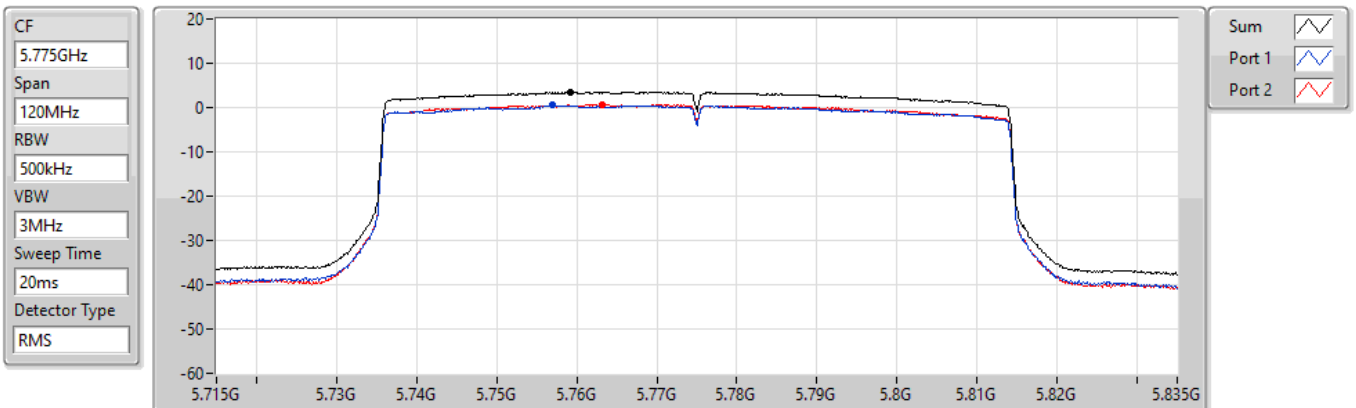


5.725-5.85GHz_802.11ax HEW80_Nss1,(MCS0)_2TX

PSD

5775MHz

14/09/2022





PSD_Non-Beamforming_Radio2(Low Band)+Radio3(High Band) Appendix D.2

Summary

Mode	PD (dBm/RBW)	EIRP PD (dBm/RBW)
5.15-5.25GHz	-	-
802.11a_Nss1,(6Mbps)_2TX	12.54	20.85
802.11n HT20_Nss1,(MCS0)_2TX	12.04	20.35
802.11n HT40_Nss1,(MCS0)_2TX	8.89	17.20
802.11ac VHT20_Nss1,(MCS0)_2TX	11.32	19.63
802.11ac VHT40_Nss1,(MCS0)_2TX	9.61	17.92
802.11ac VHT80_Nss1,(MCS0)_2TX	-0.55	7.76
802.11ax HEW20_Nss1,(MCS0)_2TX	11.52	19.83
802.11ax HEW40_Nss1,(MCS0)_2TX	9.05	17.36
802.11ax HEW80_Nss1,(MCS0)_2TX	0.06	8.37
5.725-5.85GHz	-	-
802.11a_Nss1,(6Mbps)_2TX	10.74	19.00
802.11n HT20_Nss1,(MCS0)_2TX	10.31	18.57
802.11n HT40_Nss1,(MCS0)_2TX	7.76	16.02
802.11ac VHT20_Nss1,(MCS0)_2TX	10.34	18.60
802.11ac VHT40_Nss1,(MCS0)_2TX	7.82	16.08
802.11ac VHT80_Nss1,(MCS0)_2TX	1.79	10.05
802.11ax HEW20_Nss1,(MCS0)_2TX	10.60	18.86
802.11ax HEW40_Nss1,(MCS0)_2TX	7.72	15.98
802.11ax HEW80_Nss1,(MCS0)_2TX	1.69	9.95

RBW = 500kHz for 5.725-5.85GHz band / 1MHz for other band;

Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)	EIRP PD (dBm/RBW)	EIRP PD Limit (dBm/RBW)
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-	-
5180MHz	Pass	8.31	7.95	8.17	10.96	14.69	19.27	23.00
5200MHz	Pass	8.31	8.73	8.95	11.66	14.69	19.97	23.00
5240MHz	Pass	8.31	9.86	9.73	12.54	14.69	20.85	23.00
5745MHz	Pass	8.26	7.43	7.54	10.41	27.74	18.67	36.00
5785MHz	Pass	8.26	6.96	7.17	10.01	27.74	18.27	36.00
5825MHz	Pass	8.26	7.70	7.86	10.74	27.74	19.00	36.00
802.11n HT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5180MHz	Pass	8.31	7.44	7.63	10.47	14.69	18.78	23.00
5200MHz	Pass	8.31	8.16	8.47	11.23	14.69	19.54	23.00
5240MHz	Pass	8.31	9.39	9.00	12.04	14.69	20.35	23.00
5745MHz	Pass	8.26	7.08	7.30	10.16	27.74	18.42	36.00
5785MHz	Pass	8.26	7.27	7.46	10.31	27.74	18.57	36.00
5825MHz	Pass	8.26	6.38	7.06	9.66	27.74	17.92	36.00
802.11n HT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5190MHz	Pass	8.31	2.79	2.82	5.69	14.69	14.00	23.00
5230MHz	Pass	8.31	6.02	5.87	8.89	14.69	17.20	23.00
5755MHz	Pass	8.26	4.68	5.15	7.76	27.74	16.02	36.00
5795MHz	Pass	8.26	4.29	4.50	7.30	27.74	15.56	36.00
802.11ac VHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5180MHz	Pass	8.31	6.56	7.06	9.67	14.69	17.98	23.00
5200MHz	Pass	8.31	7.51	7.60	10.37	14.69	18.68	23.00
5240MHz	Pass	8.31	8.62	8.24	11.32	14.69	19.63	23.00
5745MHz	Pass	8.26	6.82	7.26	10.02	27.74	18.28	36.00
5785MHz	Pass	8.26	7.20	7.63	10.34	27.74	18.60	36.00
5825MHz	Pass	8.26	7.07	7.26	10.15	27.74	18.41	36.00
802.11ac VHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5190MHz	Pass	8.31	3.34	3.03	6.14	14.69	14.45	23.00
5230MHz	Pass	8.31	6.80	6.72	9.61	14.69	17.92	23.00
5755MHz	Pass	8.26	4.67	5.10	7.82	27.74	16.08	36.00
5795MHz	Pass	8.26	4.22	4.42	7.27	27.74	15.53	36.00
802.11ac VHT80_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5210MHz	Pass	8.31	-3.33	-3.47	-0.55	14.69	7.76	23.00
5775MHz	Pass	8.26	-1.42	-1.00	1.79	27.74	10.05	36.00
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5180MHz	Pass	8.31	7.02	7.05	9.84	14.69	18.15	23.00
5200MHz	Pass	8.31	7.72	7.71	10.53	14.69	18.84	23.00
5240MHz	Pass	8.31	8.88	8.67	11.52	14.69	19.83	23.00
5745MHz	Pass	8.26	6.89	7.29	10.07	27.74	18.33	36.00
5785MHz	Pass	8.26	7.39	7.83	10.60	27.74	18.86	36.00
5825MHz	Pass	8.26	7.24	7.81	10.49	27.74	18.75	36.00
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5190MHz	Pass	8.31	2.68	2.70	5.59	14.69	13.90	23.00
5230MHz	Pass	8.31	6.40	6.23	9.05	14.69	17.36	23.00
5755MHz	Pass	8.26	4.43	4.89	7.66	27.74	15.92	36.00
5795MHz	Pass	8.26	4.57	5.01	7.72	27.74	15.98	36.00
802.11ax HEW80_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5210MHz	Pass	8.31	-2.62	-2.92	0.06	14.69	8.37	23.00
5775MHz	Pass	8.26	-1.40	-0.95	1.69	27.74	9.95	36.00

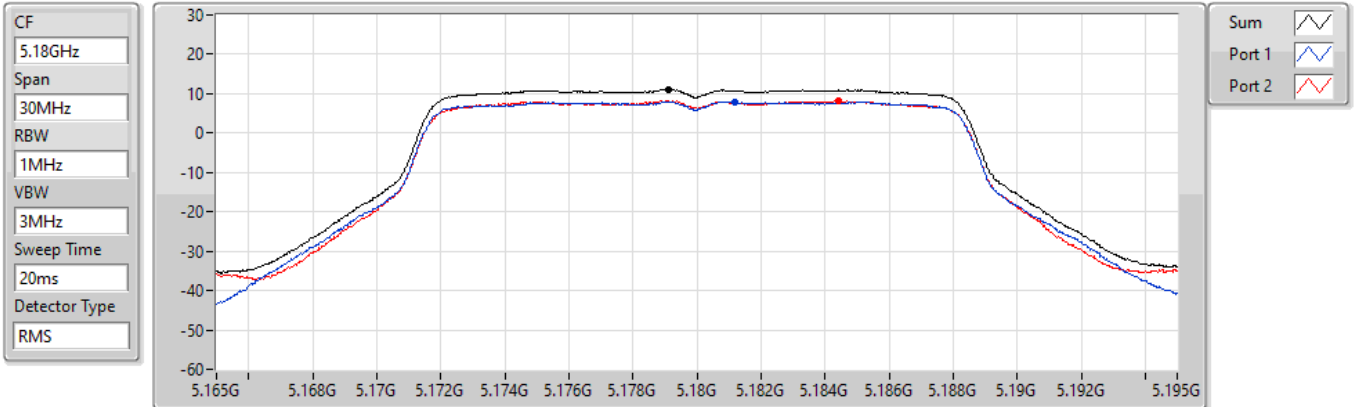
DG = Directional Gain; RBW = 500kHz for 5.725-5.85GHz band / 1MHz for other band;
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; Port X = Port X Power Density;

802.11a_Nss1,(6Mbps)_2TX

PSD

5180MHz

02/09/2022

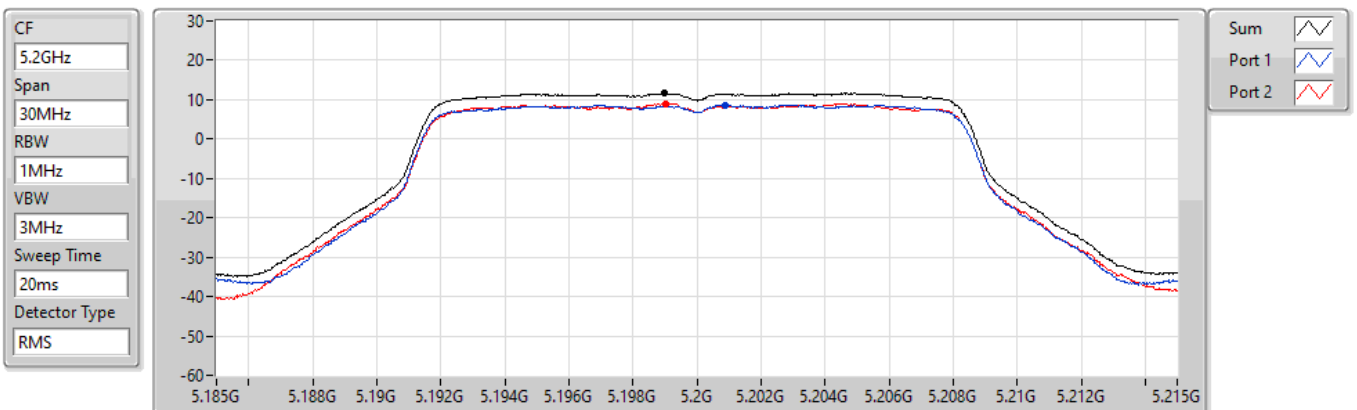


802.11a_Nss1,(6Mbps)_2TX

PSD

5200MHz

02/09/2022

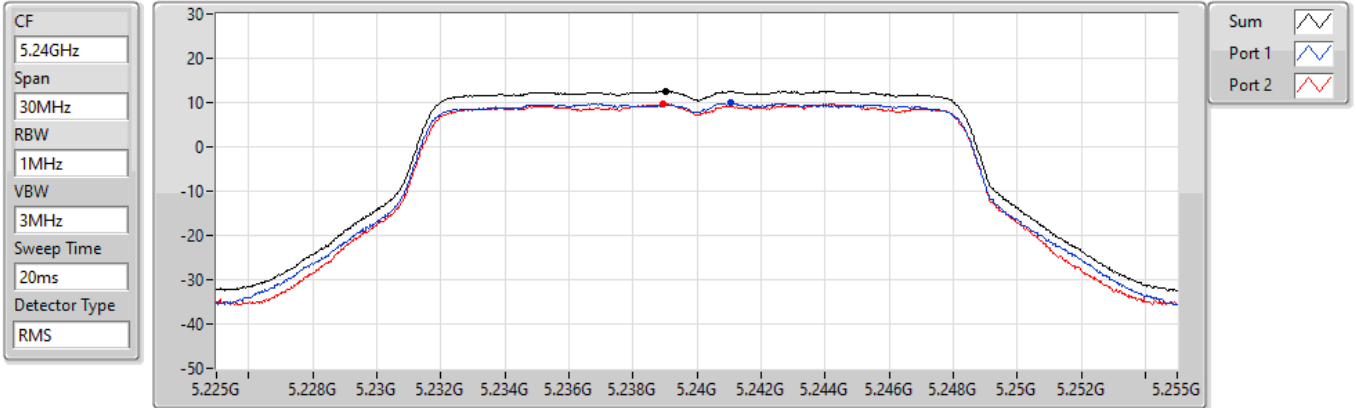


802.11a_Nss1,(6Mbps)_2TX

PSD

5240MHz

02/09/2022

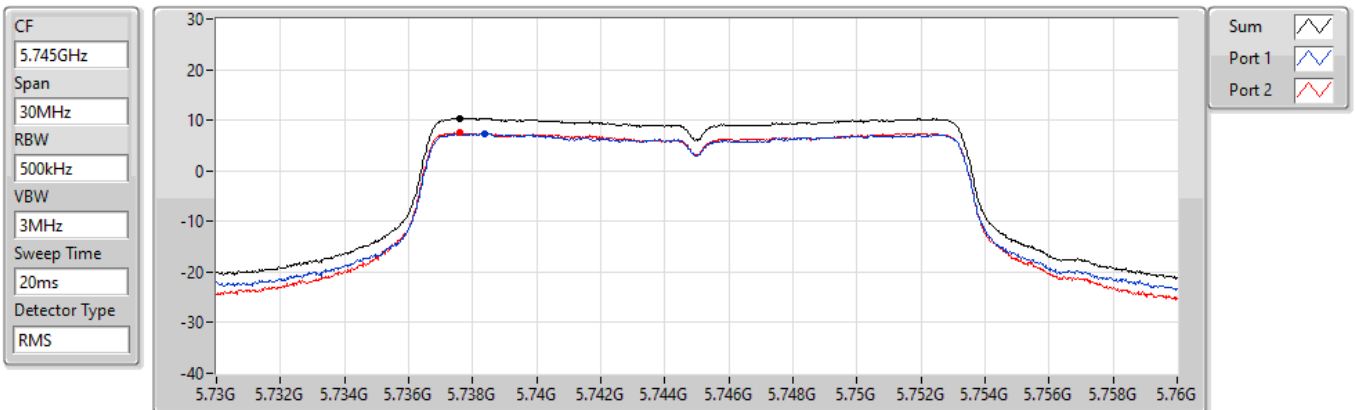


802.11a_Nss1,(6Mbps)_2TX

PSD

5745MHz

02/09/2022

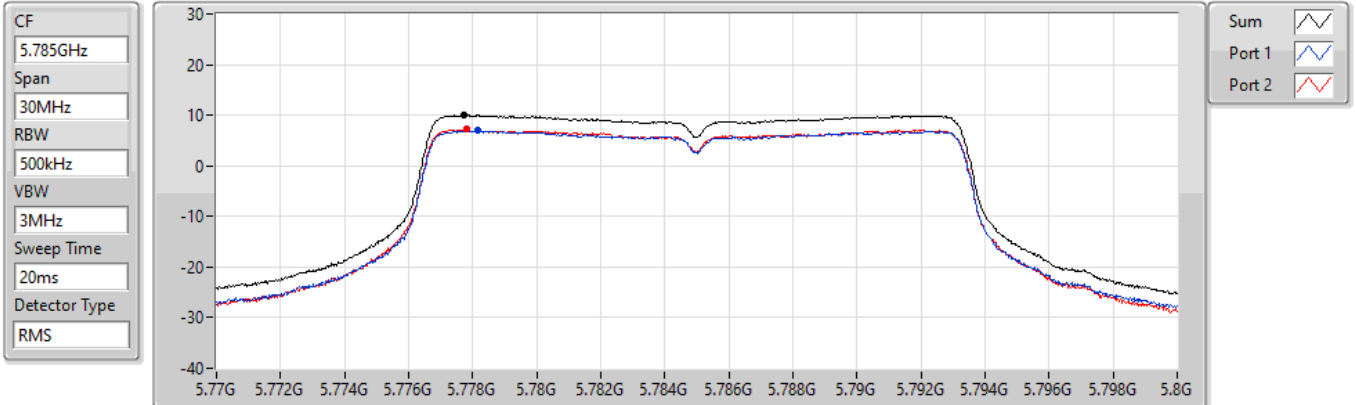


802.11a_Nss1,(6Mbps)_2TX

PSD

5785MHz

02/09/2022

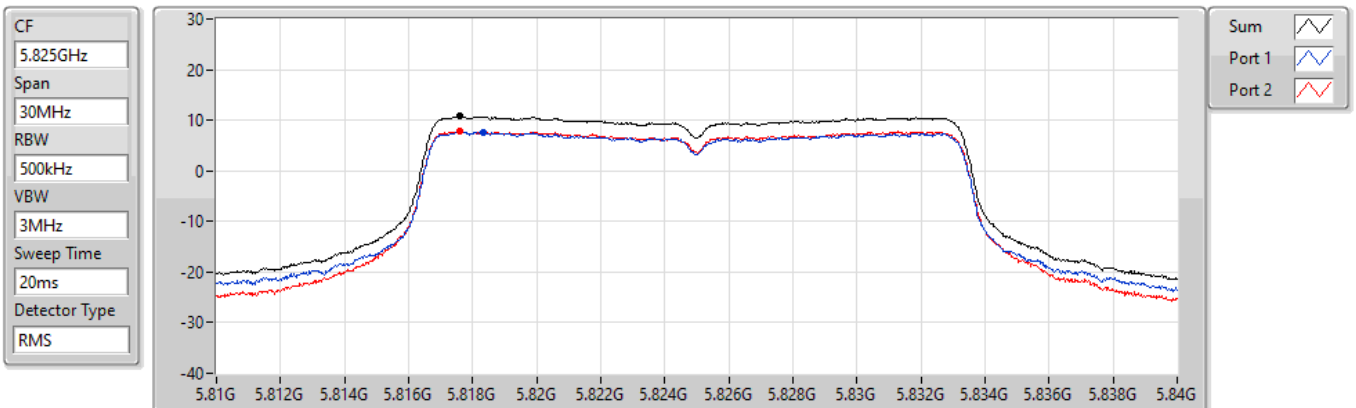


802.11a_Nss1,(6Mbps)_2TX

PSD

5825MHz

02/09/2022

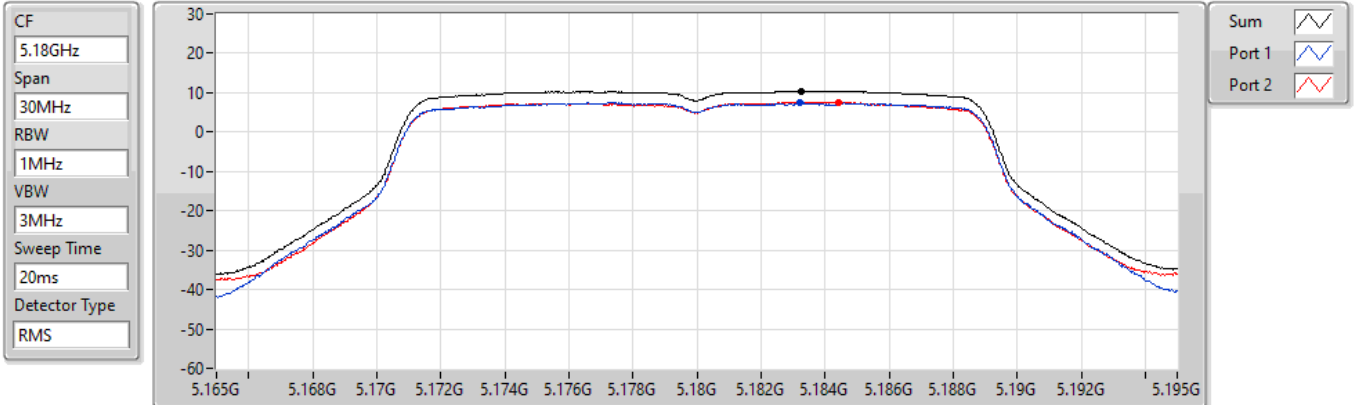


802.11n HT20_Nss1,(MCS0)_2TX

PSD

5180MHz

02/09/2022

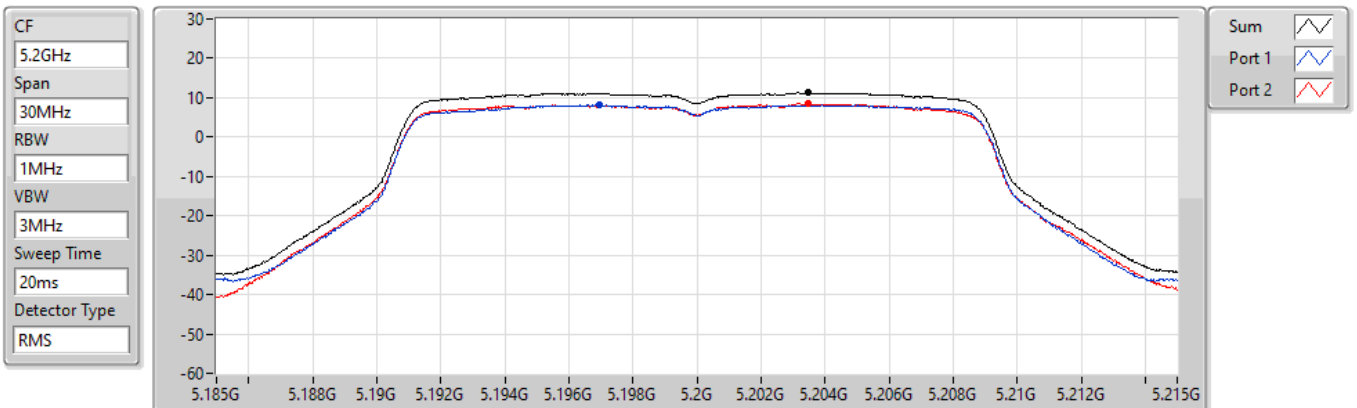


802.11n HT20_Nss1,(MCS0)_2TX

PSD

5200MHz

02/09/2022

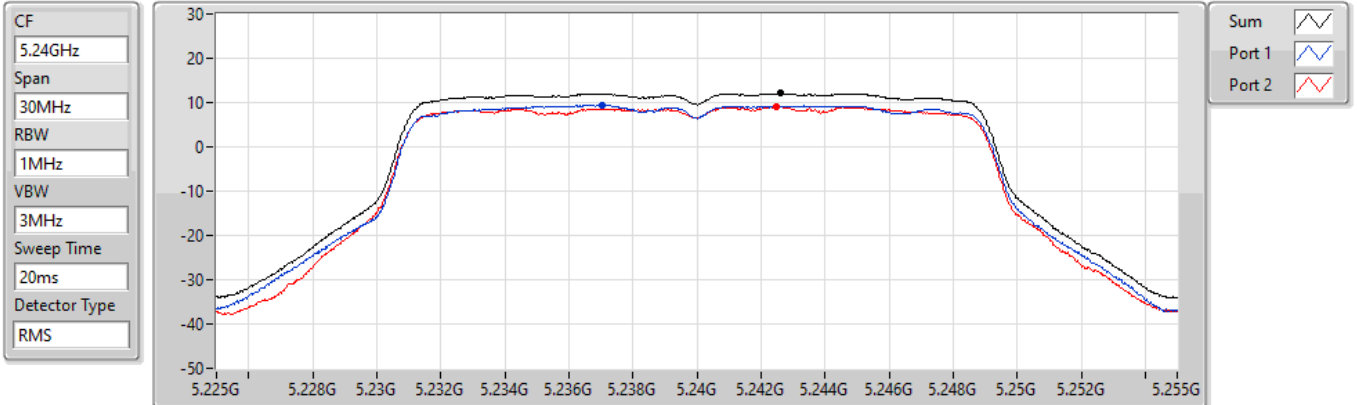


802.11n HT20_Nss1,(MCS0)_2TX

PSD

5240MHz

02/09/2022

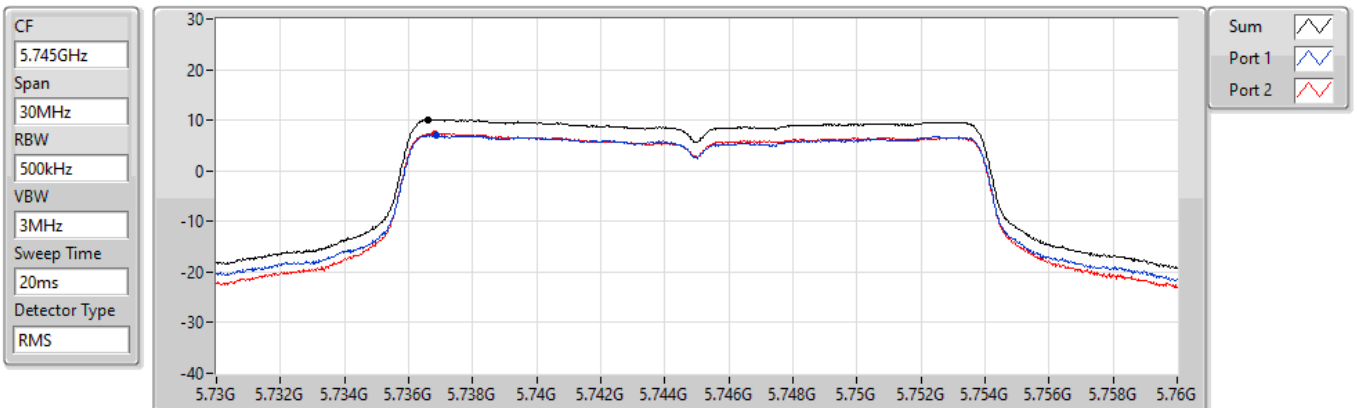


802.11n HT20_Nss1,(MCS0)_2TX

PSD

5745MHz

02/09/2022

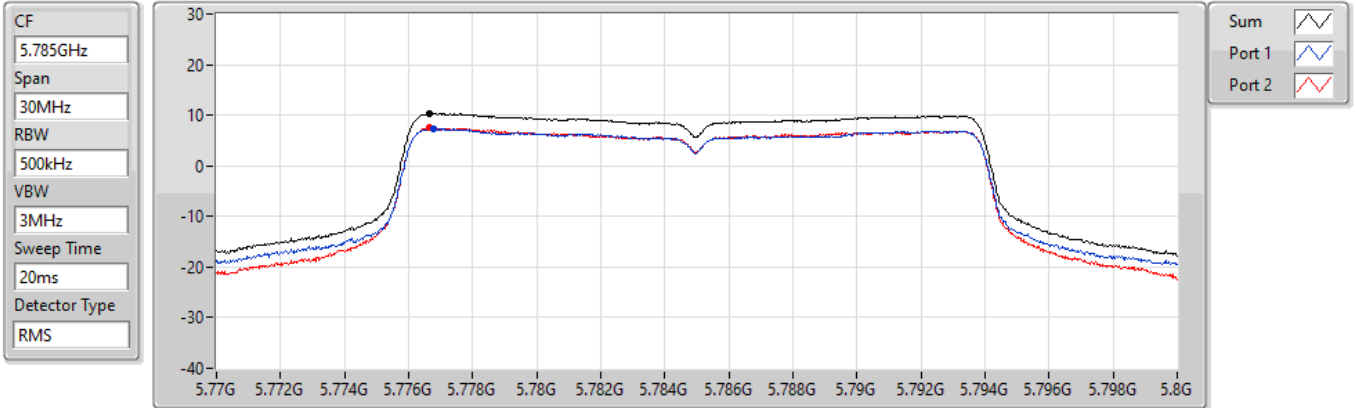


802.11n HT20_Nss1,(MCS0)_2TX

PSD

5785MHz

02/09/2022

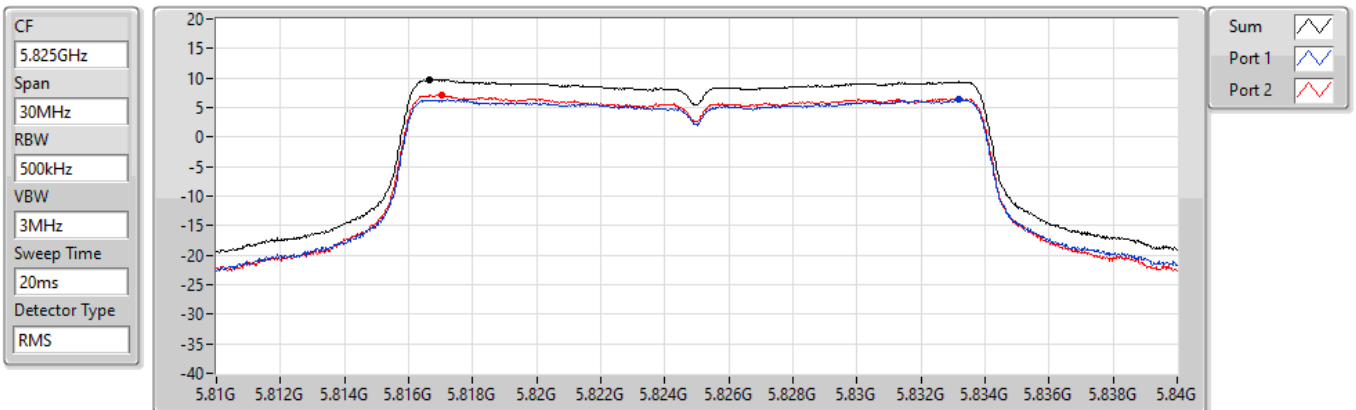


802.11n HT20_Nss1,(MCS0)_2TX

PSD

5825MHz

02/09/2022

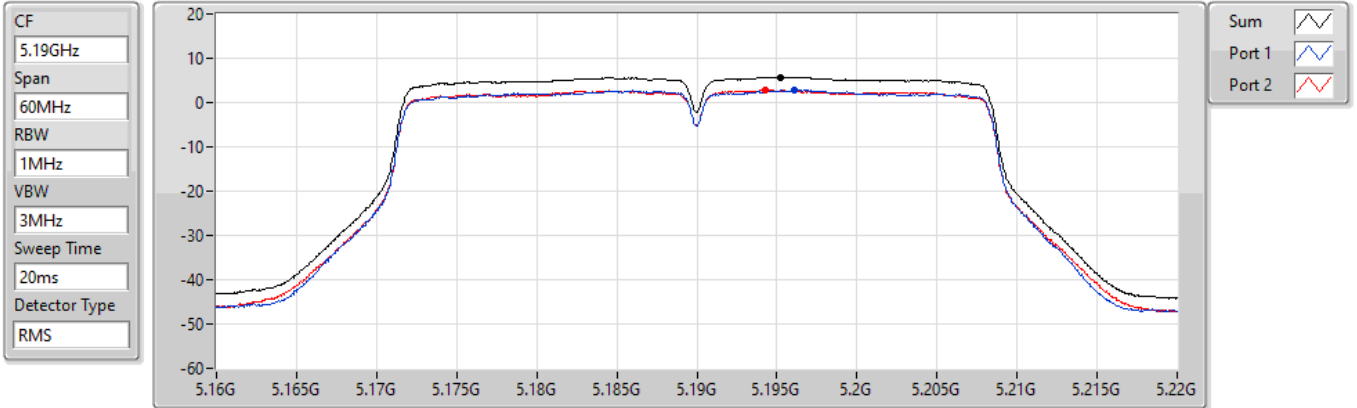


802.11n HT40_Nss1,(MCS0)_2TX

PSD

5190MHz

02/09/2022



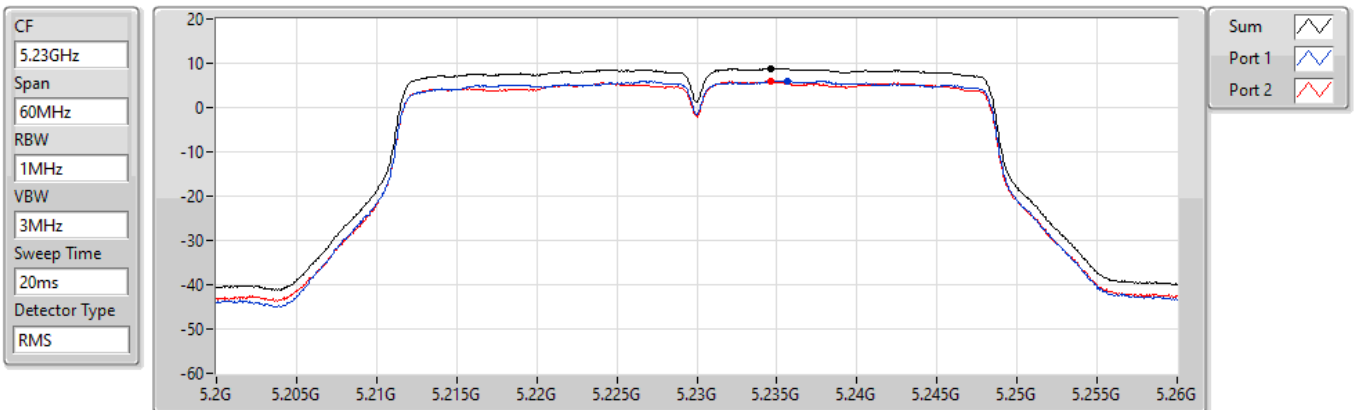
Sum	PD	Port 1	Port 2
(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)
5.69	5.69	2.79	2.82

802.11n HT40_Nss1,(MCS0)_2TX

PSD

5230MHz

02/09/2022



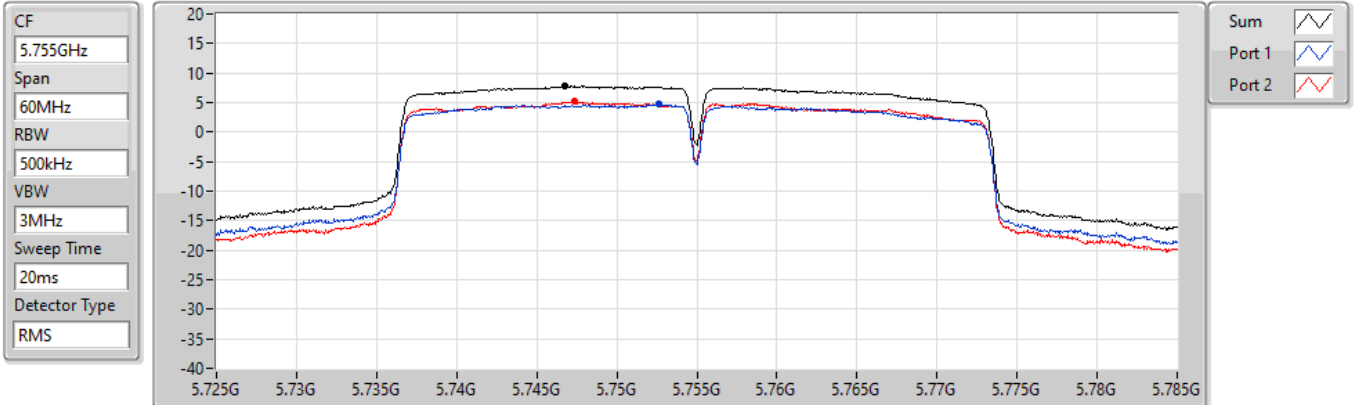
Sum	PD	Port 1	Port 2
(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)
8.89	8.89	6.02	5.87

802.11n HT40_Nss1,(MCS0)_2TX

PSD

5755MHz

02/09/2022

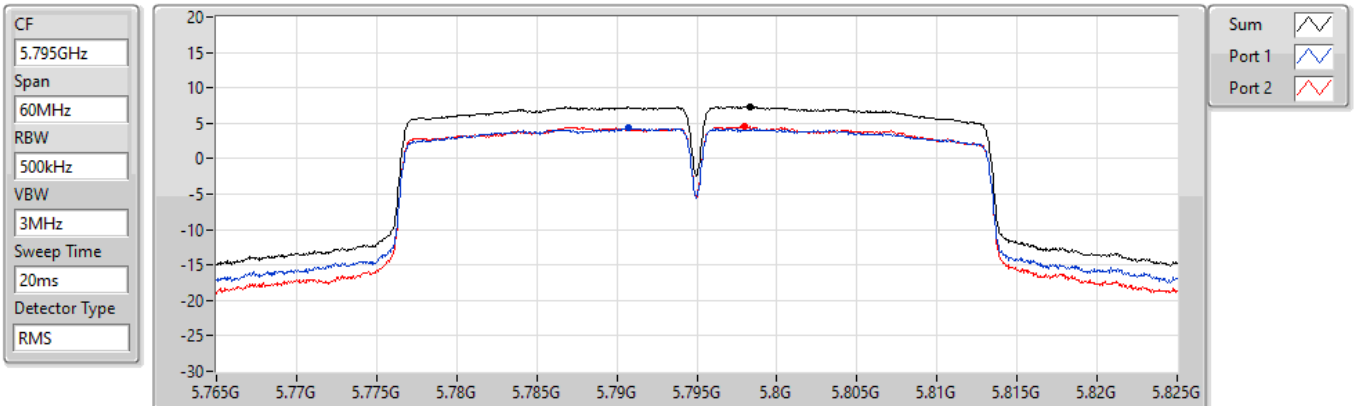


802.11n HT40_Nss1,(MCS0)_2TX

PSD

5795MHz

02/09/2022

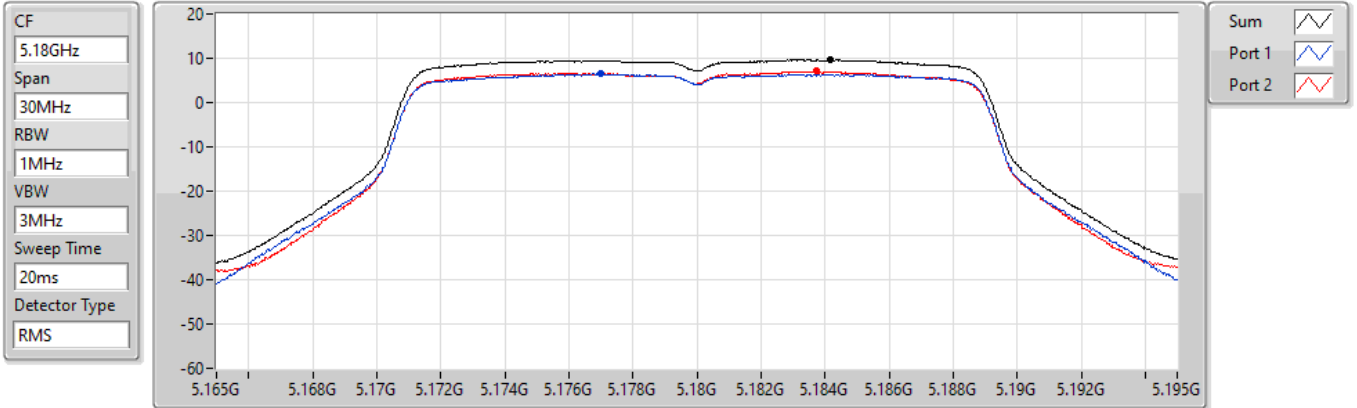


802.11ac VHT20_Nss1,(MCS0)_2TX

PSD

5180MHz

02/09/2022

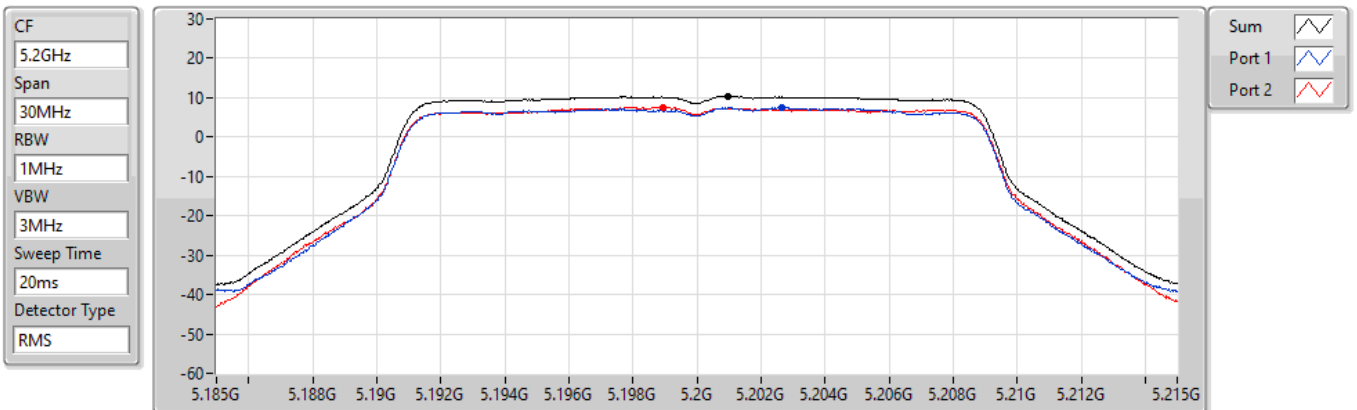


802.11ac VHT20_Nss1,(MCS0)_2TX

PSD

5200MHz

02/09/2022

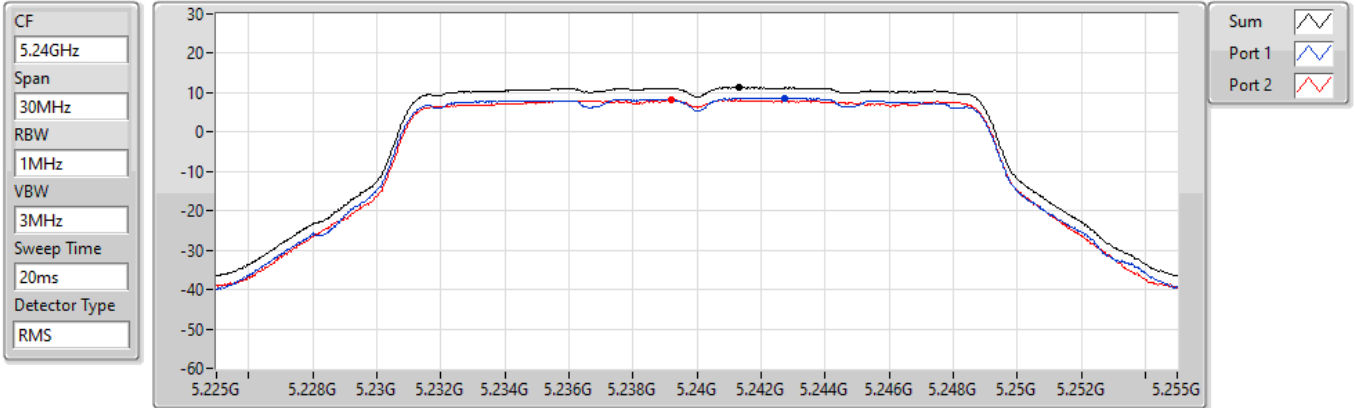


802.11ac VHT20_Nss1,(MCS0)_2TX

PSD

5240MHz

02/09/2022



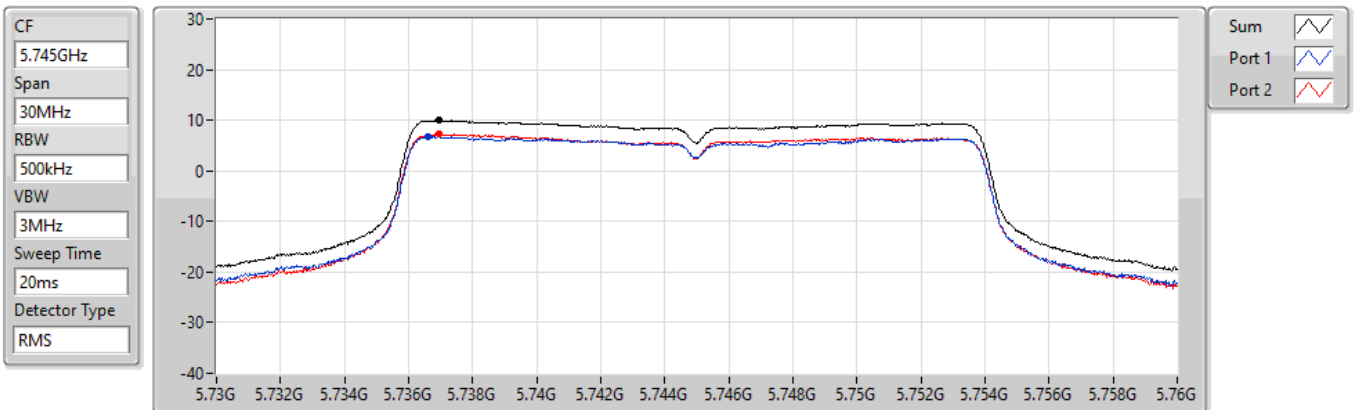
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
11.32	11.32	8.62	8.24

802.11ac VHT20_Nss1,(MCS0)_2TX

PSD

5745MHz

02/09/2022



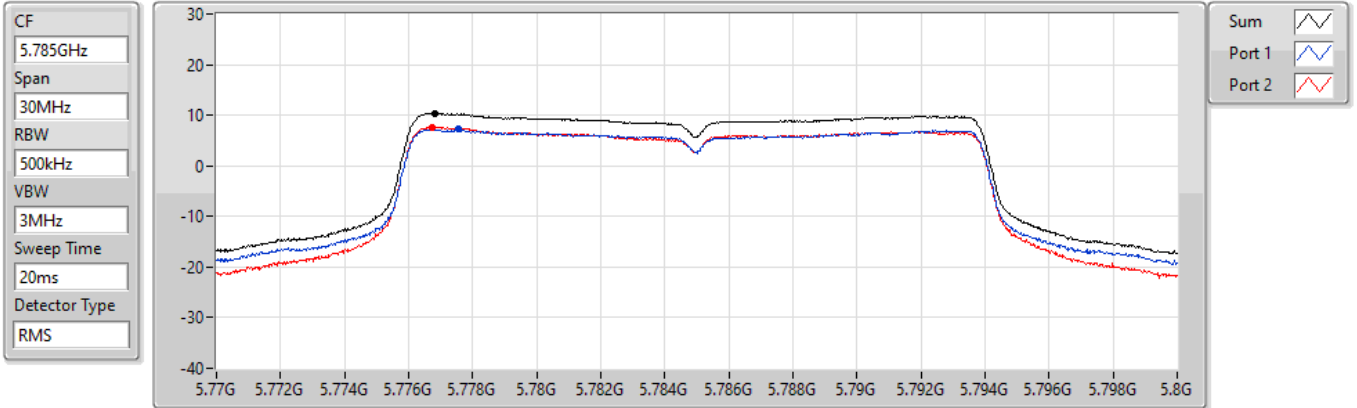
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
10.02	10.02	6.82	7.26

802.11ac VHT20_Nss1,(MCS0)_2TX

PSD

5785MHz

02/09/2022

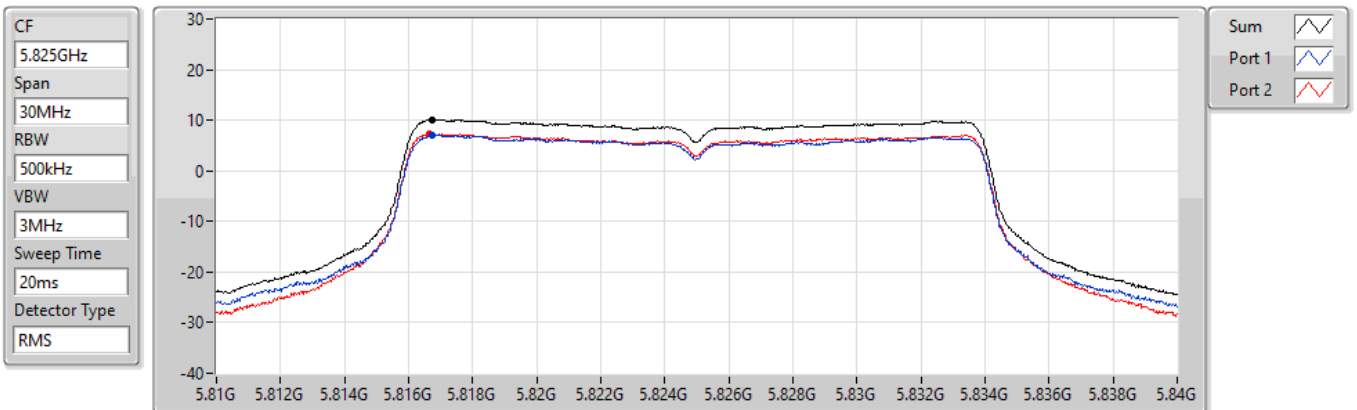


802.11ac VHT20_Nss1,(MCS0)_2TX

PSD

5825MHz

02/09/2022

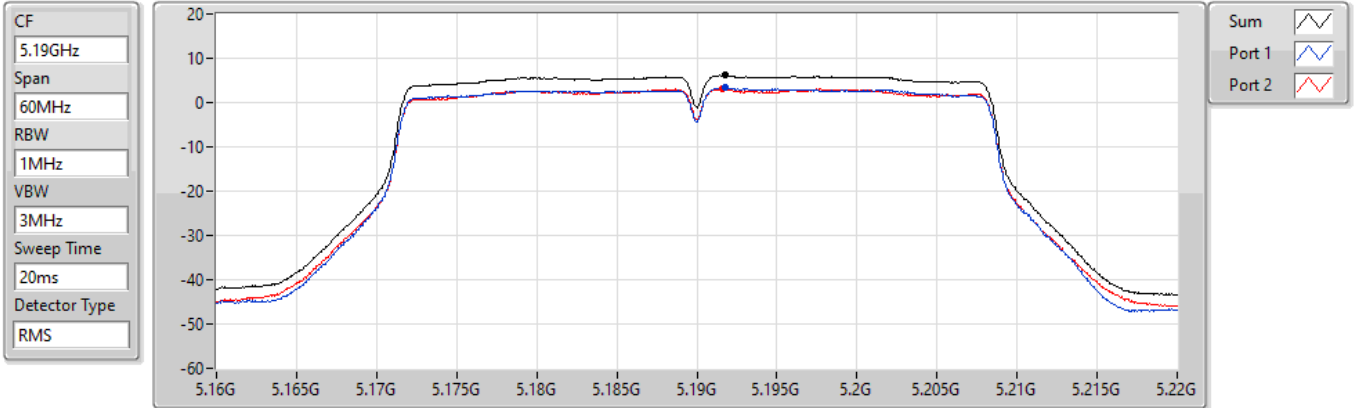


802.11ac VHT40_Nss1,(MCS0)_2TX

PSD

5190MHz

02/09/2022

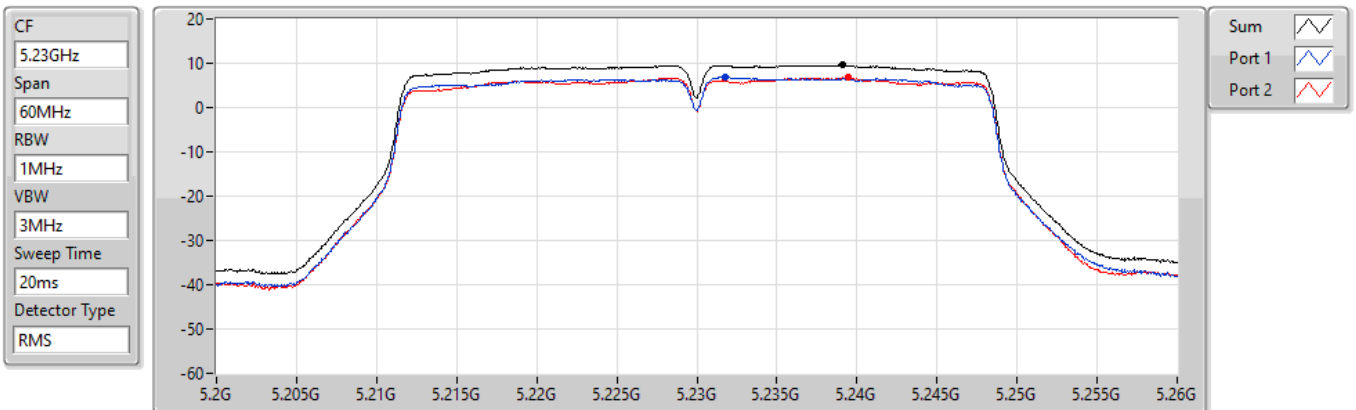


802.11ac VHT40_Nss1,(MCS0)_2TX

PSD

5230MHz

02/09/2022

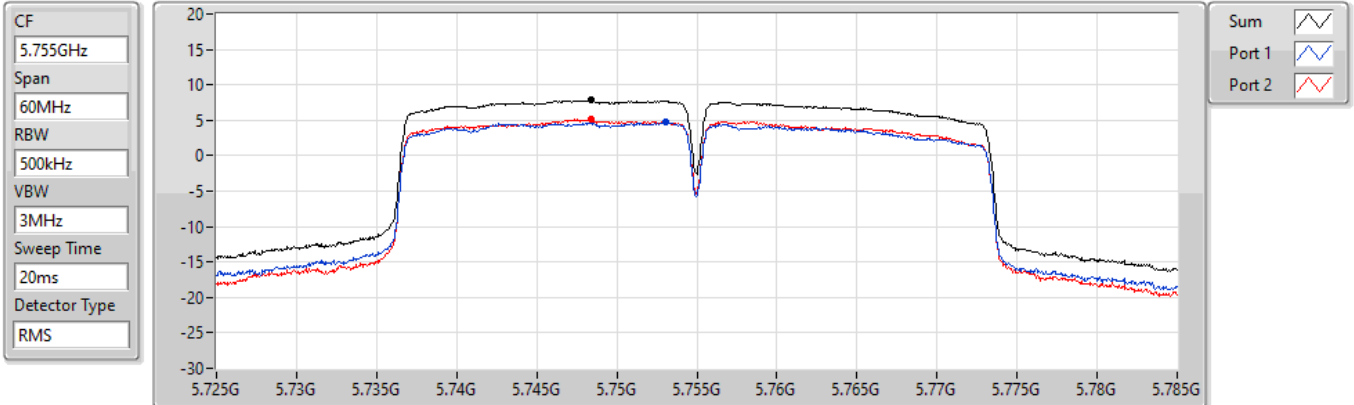


802.11ac VHT40_Nss1,(MCS0)_2TX

PSD

5755MHz

02/09/2022

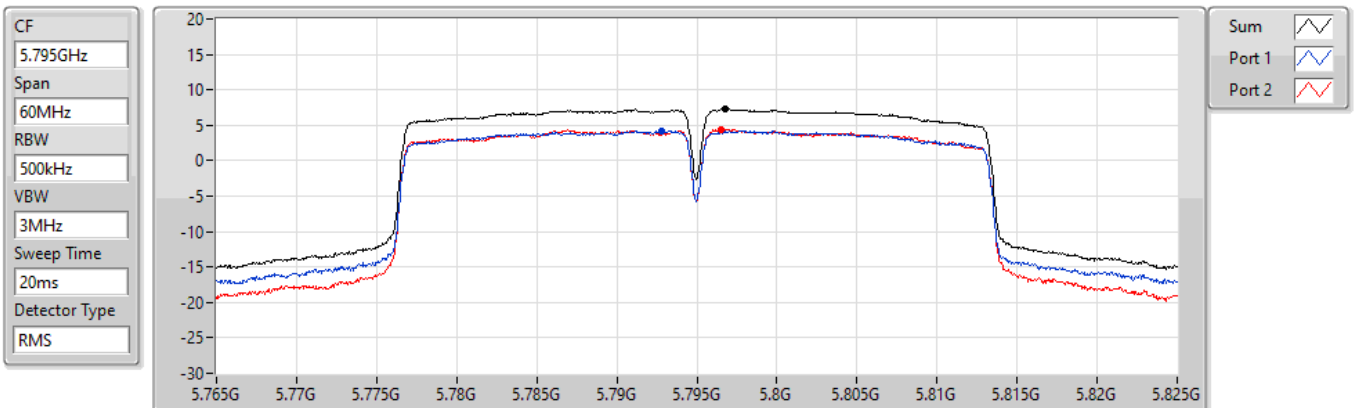


802.11ac VHT40_Nss1,(MCS0)_2TX

PSD

5795MHz

02/09/2022

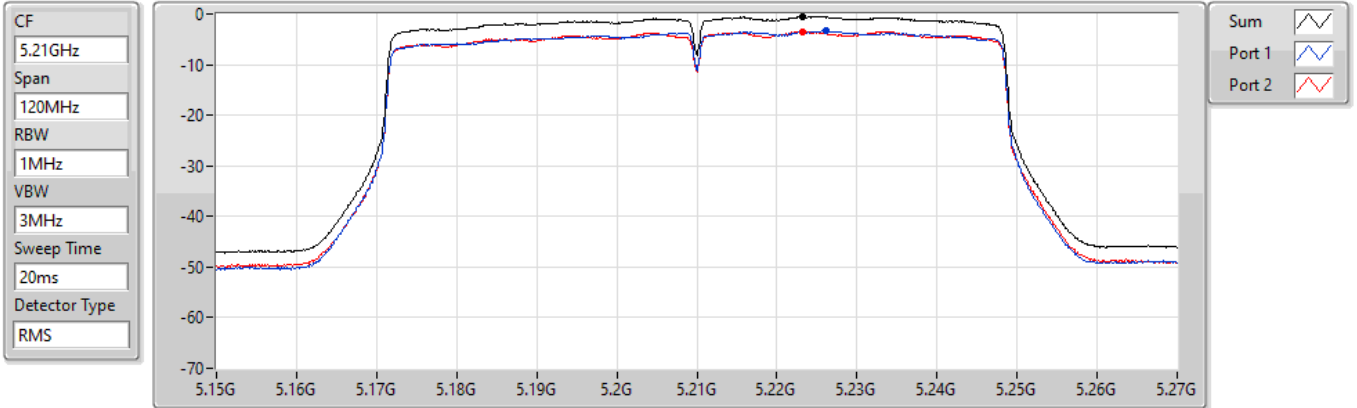


802.11ac VHT80_Nss1,(MCS0)_2TX

PSD

5210MHz

02/09/2022

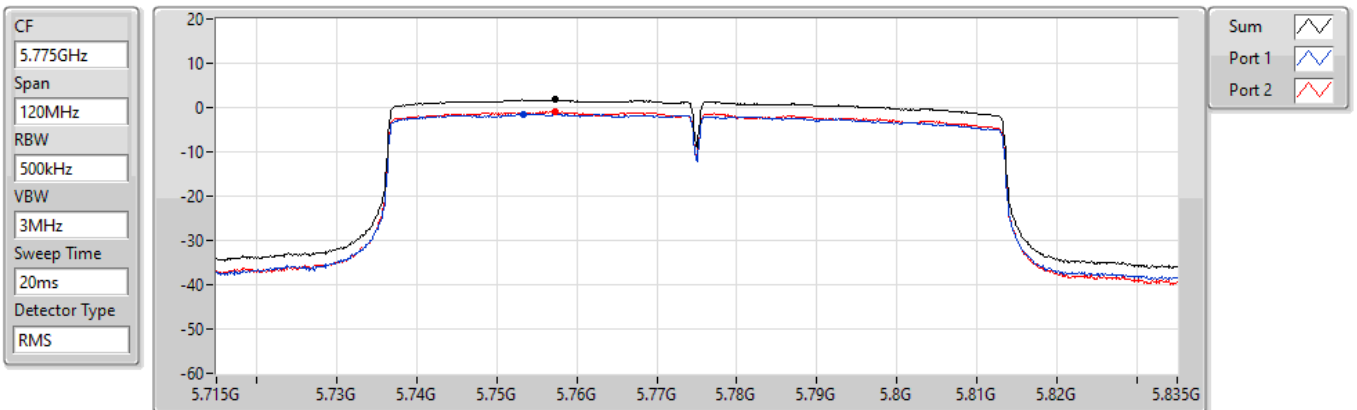


802.11ac VHT80_Nss1,(MCS0)_2TX

PSD

5775MHz

02/09/2022

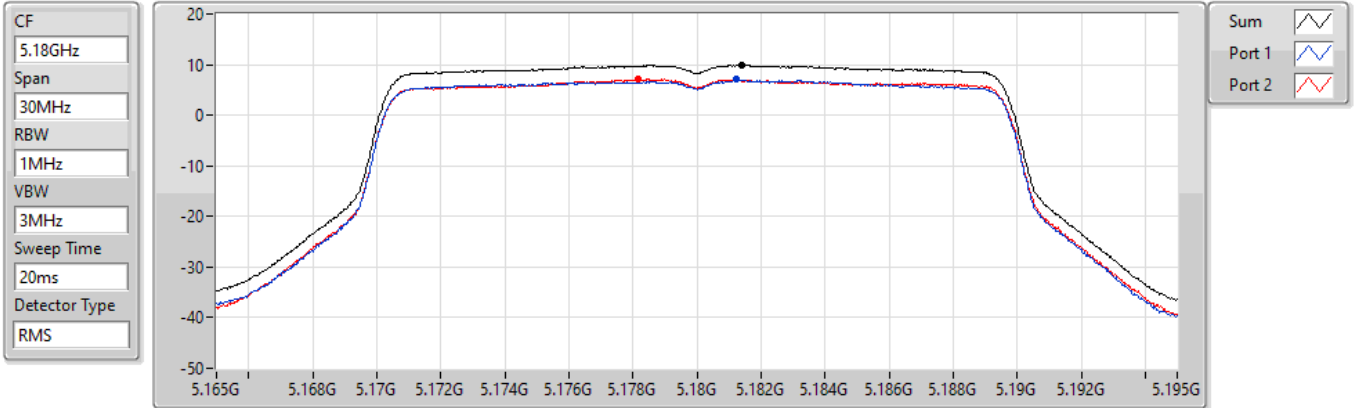


802.11ax HEW20_Nss1,(MCS0)_2TX

PSD

5180MHz

02/09/2022

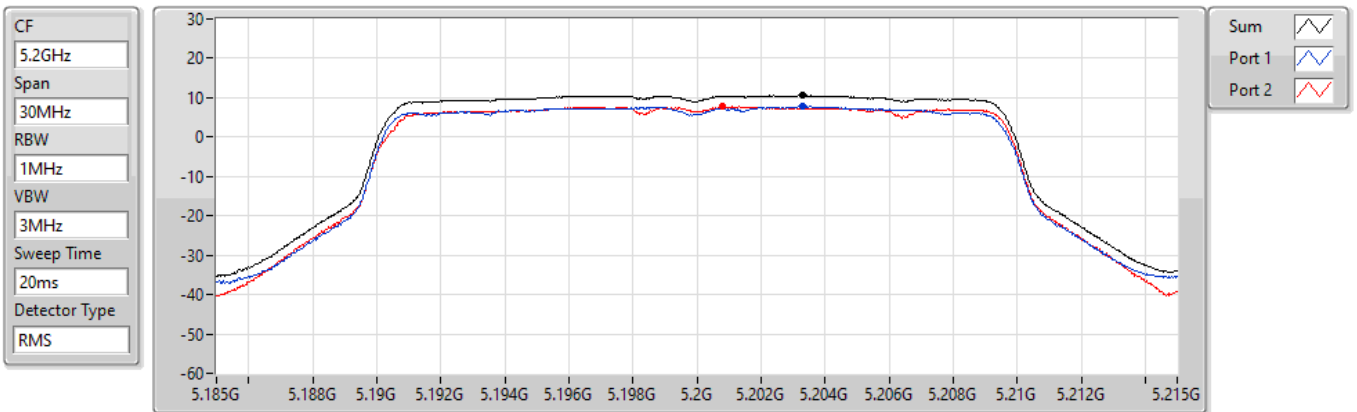


802.11ax HEW20_Nss1,(MCS0)_2TX

PSD

5200MHz

02/09/2022

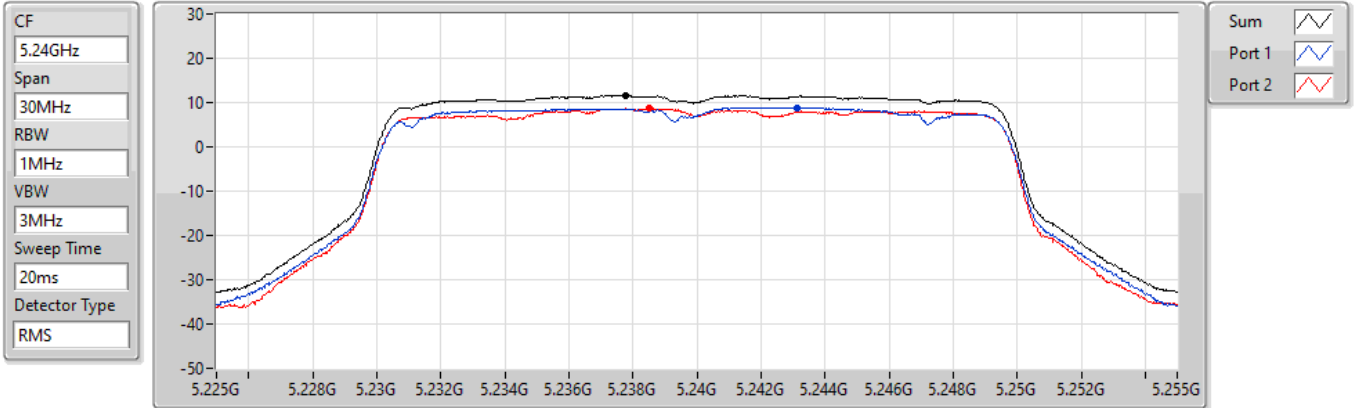


802.11ax HEW20_Nss1,(MCS0)_2TX

PSD

5240MHz

02/09/2022



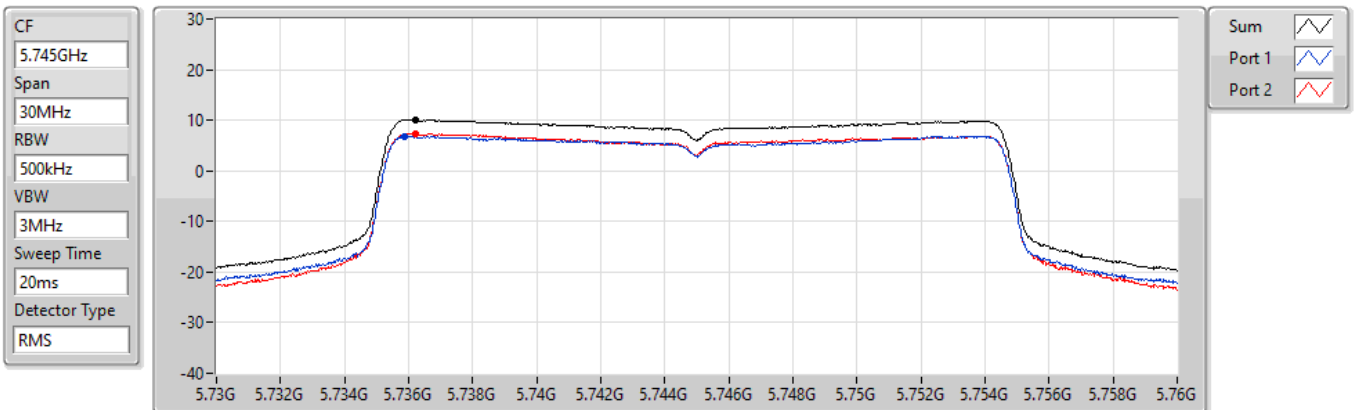
Sum	PD	Port 1	Port 2
(dBm/100Hz)	(dBm/100Hz)	(dBm/100Hz)	(dBm/100Hz)
11.52	11.52	8.88	8.67

802.11ax HEW20_Nss1,(MCS0)_2TX

PSD

5745MHz

02/09/2022



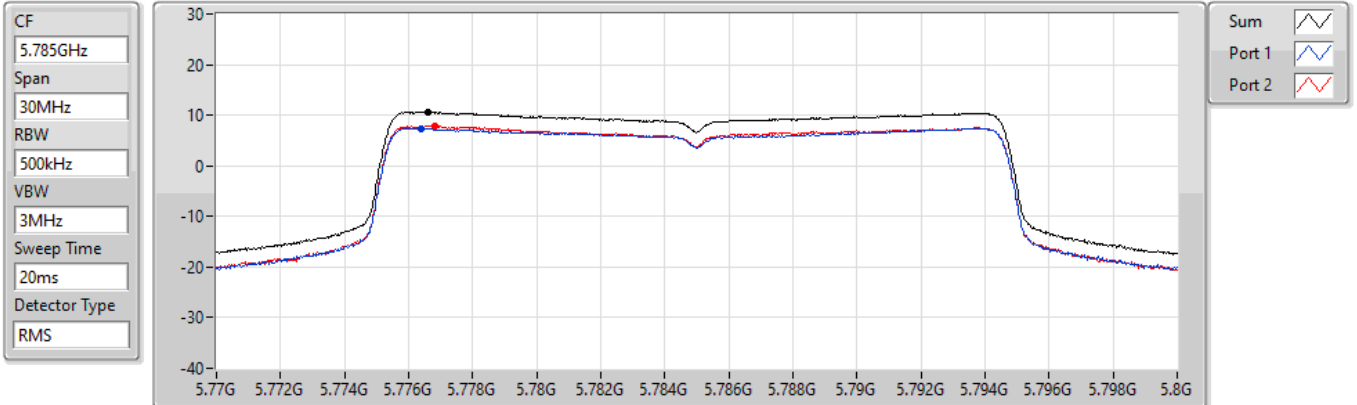
Sum	PD	Port 1	Port 2
(dBm/100Hz)	(dBm/100Hz)	(dBm/100Hz)	(dBm/100Hz)
10.07	10.07	6.89	7.29

802.11ax HEW20_Nss1,(MCS0)_2TX

PSD

5785MHz

02/09/2022

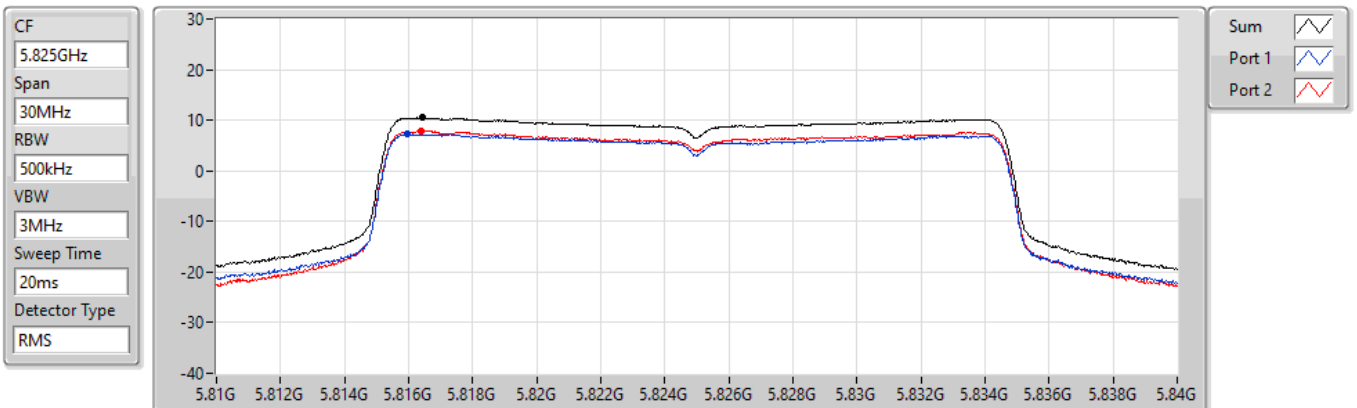


802.11ax HEW20_Nss1,(MCS0)_2TX

PSD

5825MHz

02/09/2022

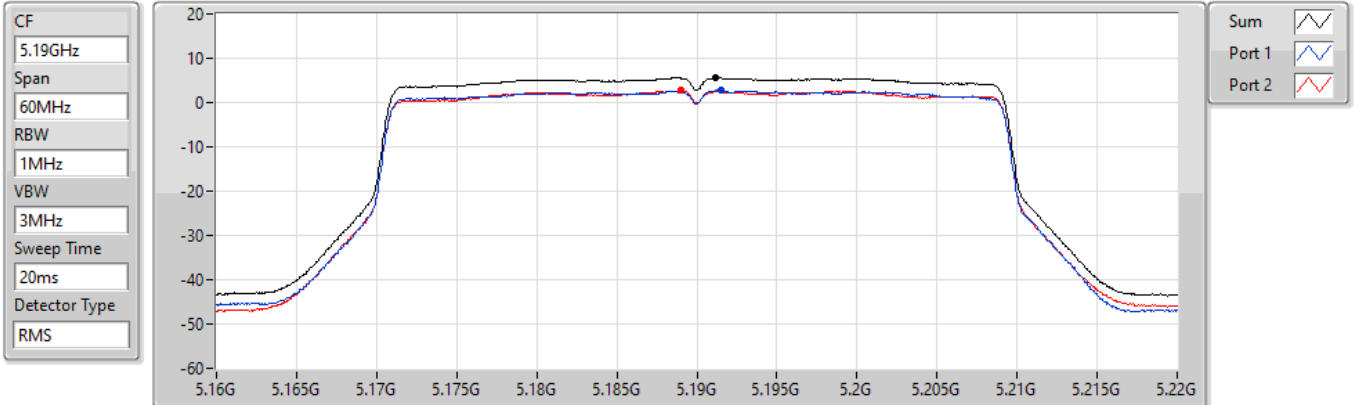


802.11ax HEW40_Nss1,(MCS0)_2TX

PSD

5190MHz

02/09/2022



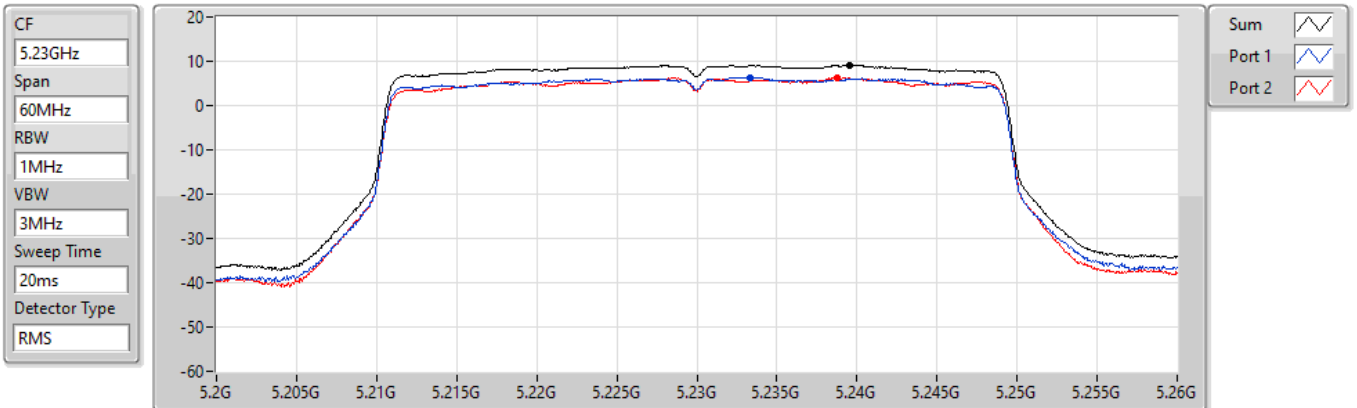
Sum	PD	Port 1	Port 2
(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)
5.59	5.59	2.68	2.70

802.11ax HEW40_Nss1,(MCS0)_2TX

PSD

5230MHz

02/09/2022



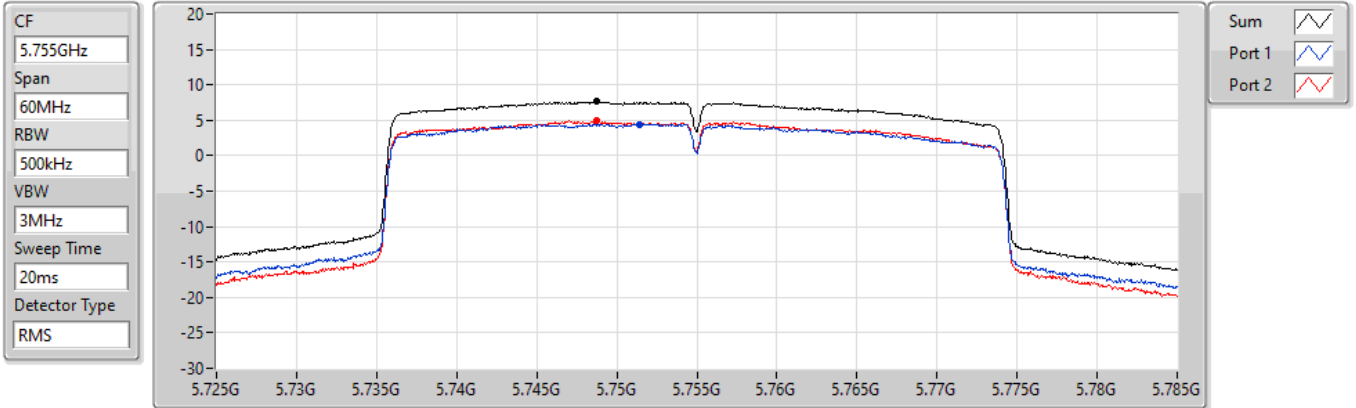
Sum	PD	Port 1	Port 2
(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)
9.05	9.05	6.40	6.23

802.11ax HEW40_Nss1,(MCS0)_2TX

PSD

5755MHz

02/09/2022

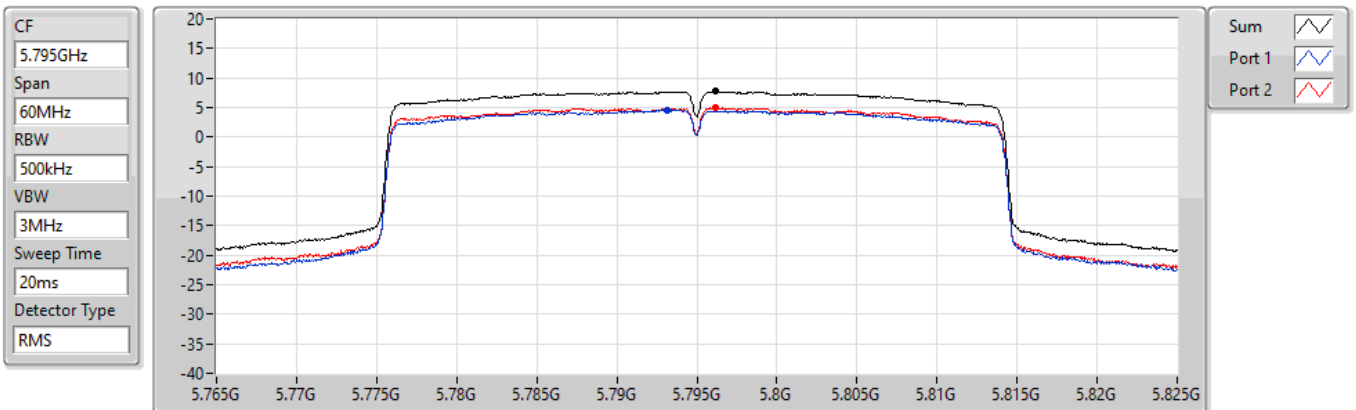


802.11ax HEW40_Nss1,(MCS0)_2TX

PSD

5795MHz

02/09/2022

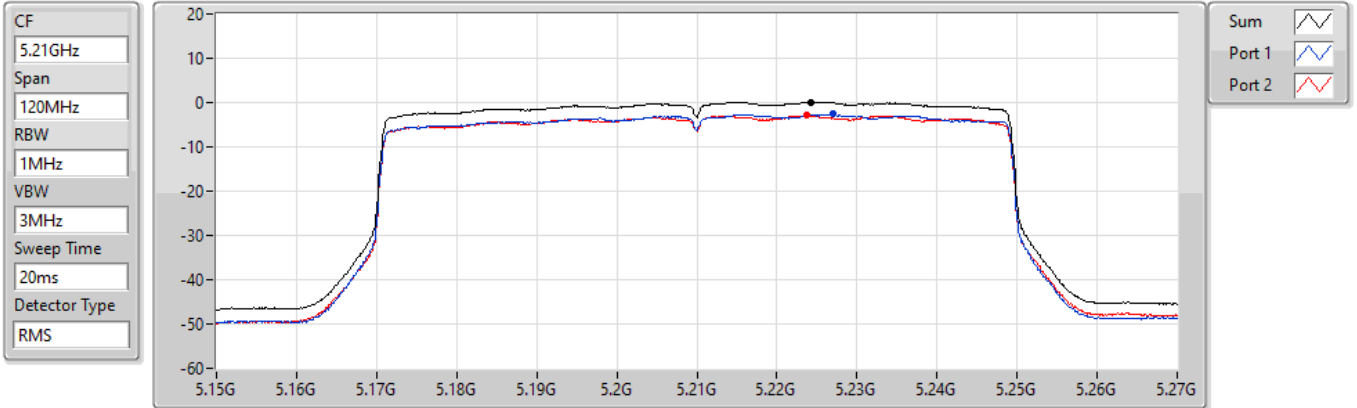


802.11ax HEW80_Nss1,(MCS0)_2TX

PSD

5210MHz

02/09/2022

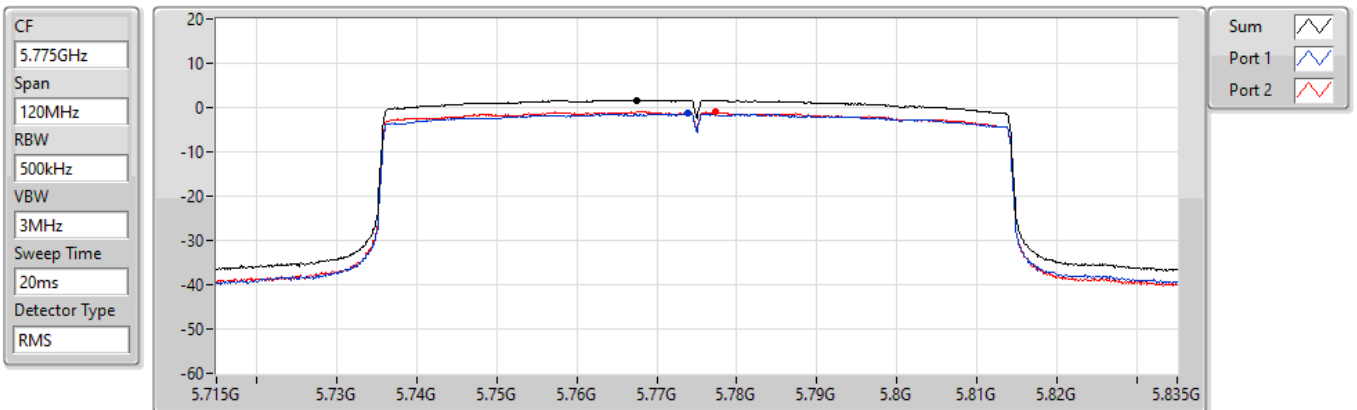


802.11ax HEW80_Nss1,(MCS0)_2TX

PSD

5775MHz

02/09/2022





Summary

Mode	PD (dBm/RBW)	EIRP PD (dBm/RBW)
5.15-5.25GHz	-	-
802.11a_Nss1,(6Mbps)_2TX	8.90	17.16
802.11n HT20_Nss1,(MCS0)_2TX	8.65	16.91
802.11n HT40_Nss1,(MCS0)_2TX	8.42	16.68
802.11ac VHT20_Nss1,(MCS0)_2TX	8.79	17.05
802.11ac VHT40_Nss1,(MCS0)_2TX	8.48	16.74
802.11ac VHT80_Nss1,(MCS0)_2TX	0.74	9.00
802.11ax HEW20_Nss1,(MCS0)_2TX	8.97	17.23
802.11ax HEW40_Nss1,(MCS0)_2TX	8.21	16.47
802.11ax HEW80_Nss1,(MCS0)_2TX	0.89	9.15
5.725-5.85GHz	-	-
802.11a_Nss1,(6Mbps)_2TX	12.75	21.01
802.11n HT20_Nss1,(MCS0)_2TX	11.04	19.30
802.11n HT40_Nss1,(MCS0)_2TX	8.07	16.33
802.11ac VHT20_Nss1,(MCS0)_2TX	11.07	19.33
802.11ac VHT40_Nss1,(MCS0)_2TX	8.27	16.53
802.11ac VHT80_Nss1,(MCS0)_2TX	2.55	10.81
802.11ax HEW20_Nss1,(MCS0)_2TX	10.93	19.19
802.11ax HEW40_Nss1,(MCS0)_2TX	8.02	16.28
802.11ax HEW80_Nss1,(MCS0)_2TX	2.69	10.95

RBW = 500kHz for 5.725-5.85GHz band / 1MHz for other band;

Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)	EIRP PD (dBm/RBW)	EIRP PD Limit (dBm/RBW)
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-	-
5180MHz	Pass	8.26	6.08	4.55	8.36	14.74	16.62	23.00
5200MHz	Pass	8.26	6.68	5.09	8.90	14.74	17.16	23.00
5240MHz	Pass	8.26	6.20	5.46	8.81	14.74	17.07	23.00
5745MHz	Pass	8.26	10.88	8.30	12.75	27.74	21.01	36.00
5785MHz	Pass	8.26	9.56	8.67	12.04	27.74	20.30	36.00
5825MHz	Pass	8.26	8.85	8.24	11.49	27.74	19.75	36.00
802.11n HT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5180MHz	Pass	8.26	4.86	4.31	7.44	14.74	15.70	23.00
5200MHz	Pass	8.26	5.91	5.48	8.65	14.74	16.91	23.00
5240MHz	Pass	8.26	4.95	4.90	7.85	14.74	16.11	23.00
5745MHz	Pass	8.26	7.88	7.86	10.64	27.74	18.90	36.00
5785MHz	Pass	8.26	8.30	7.88	11.04	27.74	19.30	36.00
5825MHz	Pass	8.26	8.10	7.79	10.90	27.74	19.16	36.00
802.11n HT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5190MHz	Pass	8.26	1.51	1.18	4.27	14.74	12.53	23.00
5230MHz	Pass	8.26	5.77	5.42	8.42	14.74	16.68	23.00
5755MHz	Pass	8.26	5.21	5.13	8.01	27.74	16.27	36.00
5795MHz	Pass	8.26	5.46	5.06	8.07	27.74	16.33	36.00
802.11ac VHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5180MHz	Pass	8.26	5.03	4.81	7.90	14.74	16.16	23.00
5200MHz	Pass	8.26	6.07	5.76	8.79	14.74	17.05	23.00
5240MHz	Pass	8.26	4.99	4.89	7.89	14.74	16.15	23.00
5745MHz	Pass	8.26	8.05	7.86	10.86	27.74	19.12	36.00
5785MHz	Pass	8.26	8.44	7.96	11.07	27.74	19.33	36.00
5825MHz	Pass	8.26	8.31	7.76	10.92	27.74	19.18	36.00
802.11ac VHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5190MHz	Pass	8.26	1.69	1.46	4.48	14.74	12.74	23.00
5230MHz	Pass	8.26	5.60	5.47	8.48	14.74	16.74	23.00
5755MHz	Pass	8.26	5.27	5.19	8.14	27.74	16.40	36.00
5795MHz	Pass	8.26	5.54	5.37	8.27	27.74	16.53	36.00
802.11ac VHT80_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5210MHz	Pass	8.26	-2.18	-2.22	0.74	14.74	9.00	23.00
5775MHz	Pass	8.26	-0.21	-0.38	2.55	27.74	10.81	36.00
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5180MHz	Pass	8.26	4.86	4.64	7.70	14.74	15.96	23.00
5200MHz	Pass	8.26	6.08	5.87	8.97	14.74	17.23	23.00
5240MHz	Pass	8.26	5.03	4.86	7.91	14.74	16.17	23.00
5745MHz	Pass	8.26	7.91	7.65	10.73	27.74	18.99	36.00
5785MHz	Pass	8.26	8.28	7.81	10.93	27.74	19.19	36.00
5825MHz	Pass	8.26	7.94	7.53	10.71	27.74	18.97	36.00
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5190MHz	Pass	8.26	1.47	1.08	4.16	14.74	12.42	23.00
5230MHz	Pass	8.26	5.38	5.14	8.21	14.74	16.47	23.00
5755MHz	Pass	8.26	5.06	4.88	7.86	27.74	16.12	36.00
5795MHz	Pass	8.26	5.43	4.87	8.02	27.74	16.28	36.00
802.11ax HEW80_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5210MHz	Pass	8.26	-1.94	-2.15	0.89	14.74	9.15	23.00
5775MHz	Pass	8.26	-0.03	-0.19	2.69	27.74	10.95	36.00

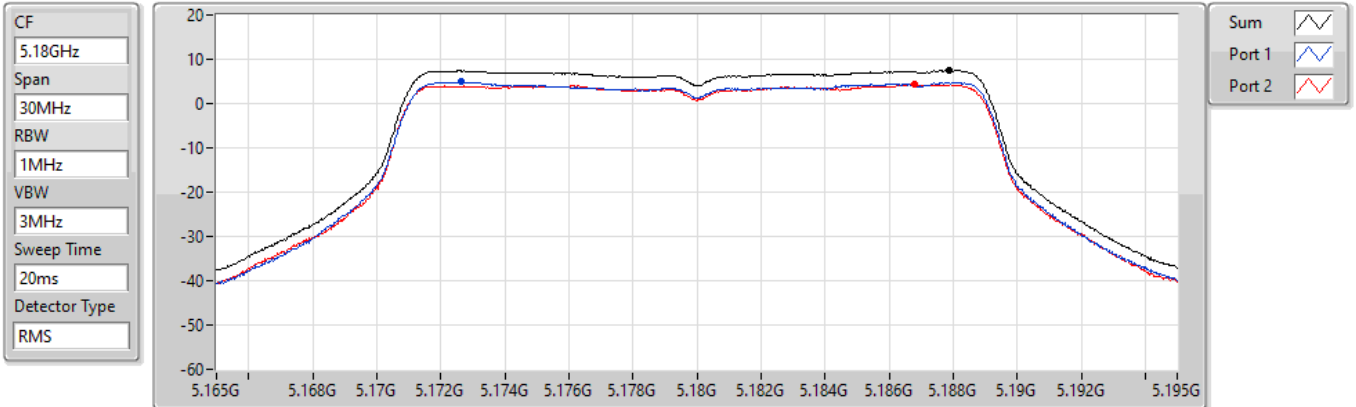
DG = Directional Gain; RBW = 500kHz for 5.725-5.85GHz band / 1MHz for other band;
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; Port X = Port X Power Density;

802.11n HT20_Nss1,(MCS0)_2TX

PSD

5180MHz

30/08/2022

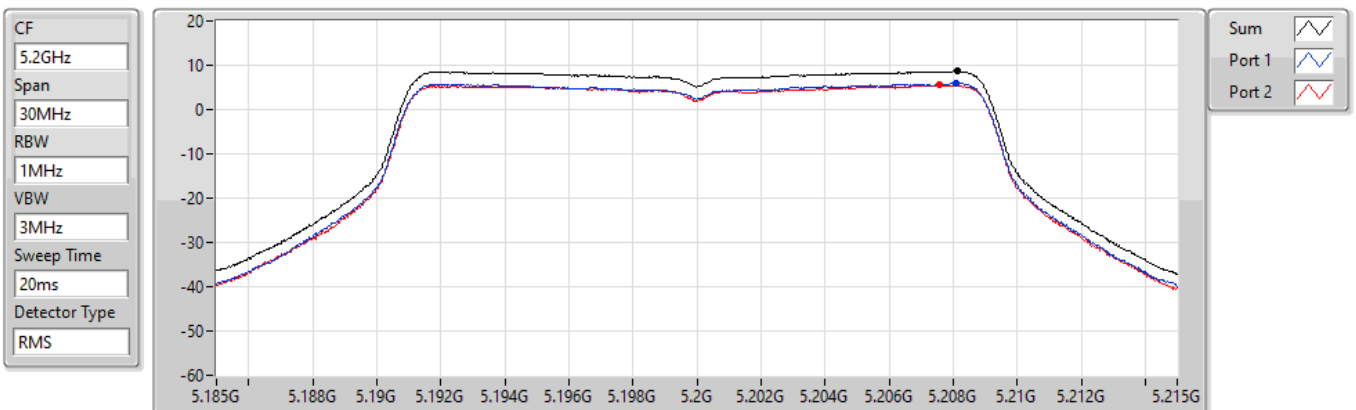


802.11n HT20_Nss1,(MCS0)_2TX

PSD

5200MHz

30/08/2022

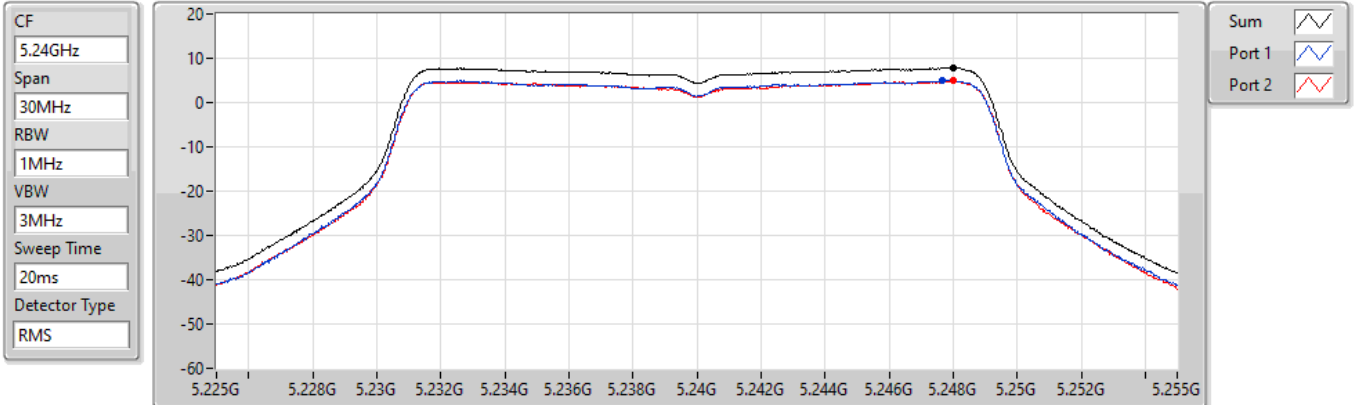


802.11n HT20_Nss1,(MCS0)_2TX

PSD

5240MHz

30/08/2022

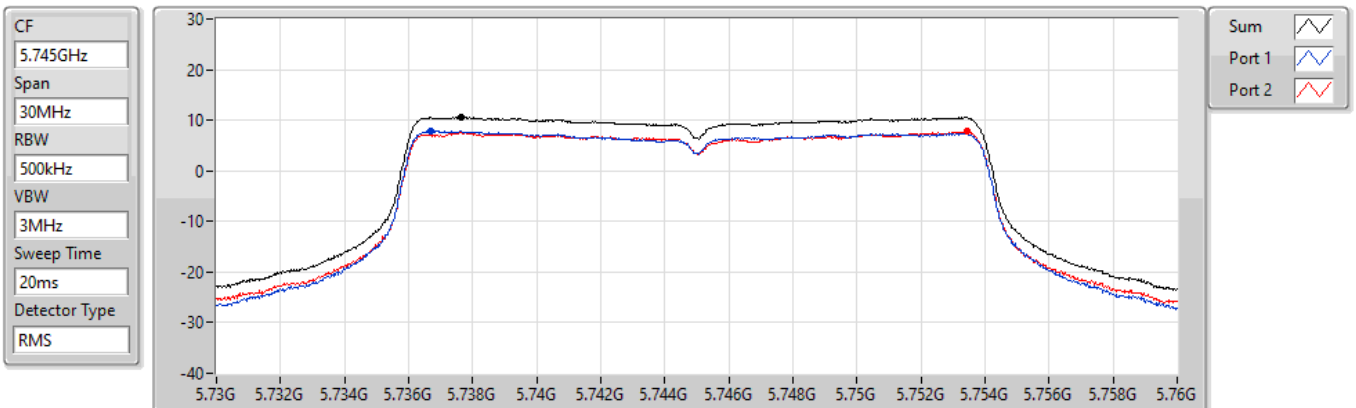


802.11n HT20_Nss1,(MCS0)_2TX

PSD

5745MHz

30/08/2022

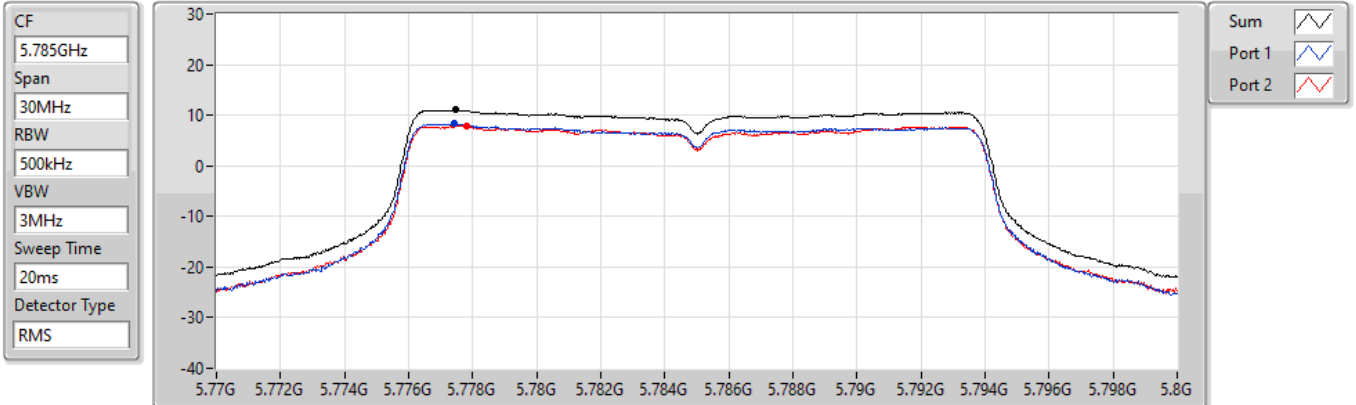


802.11n HT20_Nss1,(MCS0)_2TX

PSD

5785MHz

30/08/2022

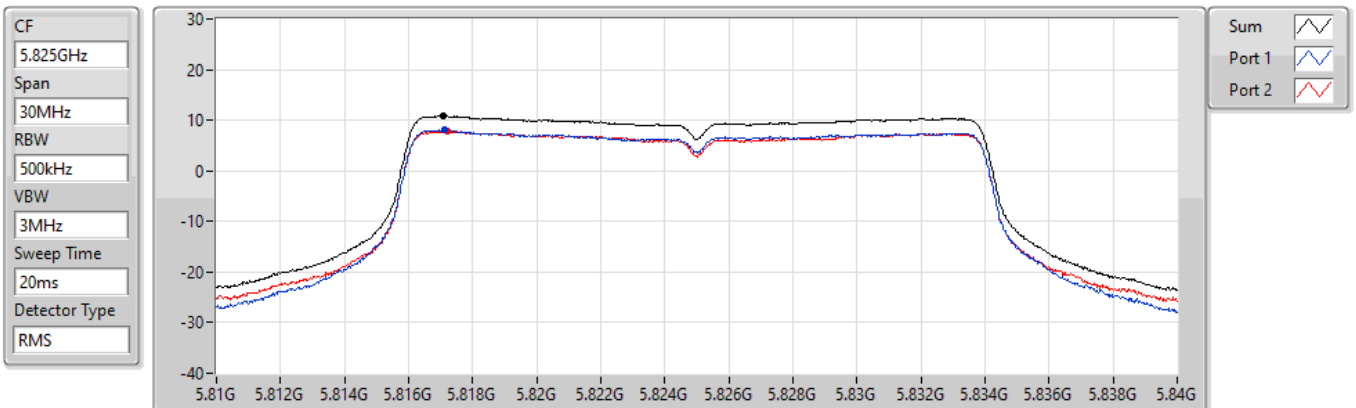


802.11n HT20_Nss1,(MCS0)_2TX

PSD

5825MHz

30/08/2022

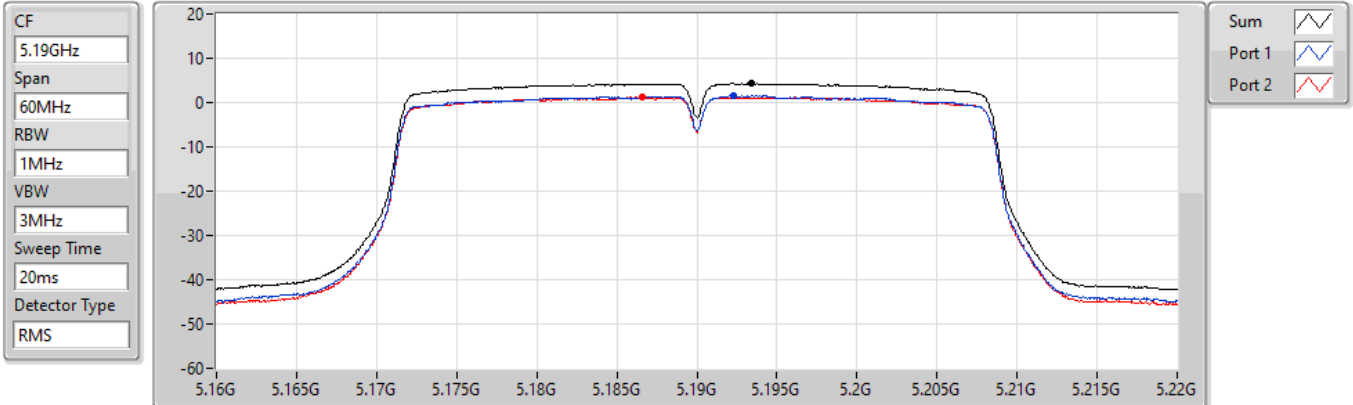


802.11n HT40_Nss1,(MCS0)_2TX

PSD

5190MHz

30/08/2022

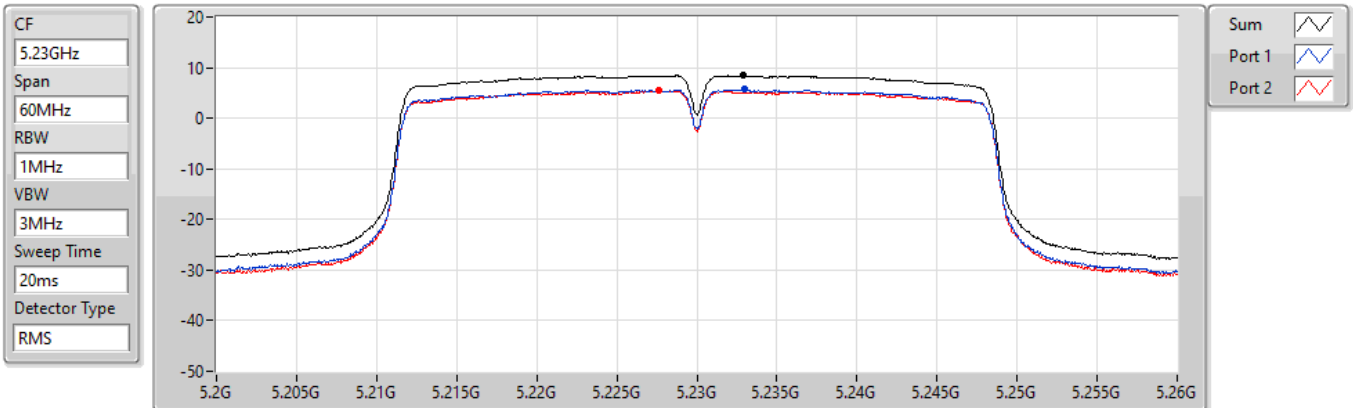


802.11n HT40_Nss1,(MCS0)_2TX

PSD

5230MHz

30/08/2022

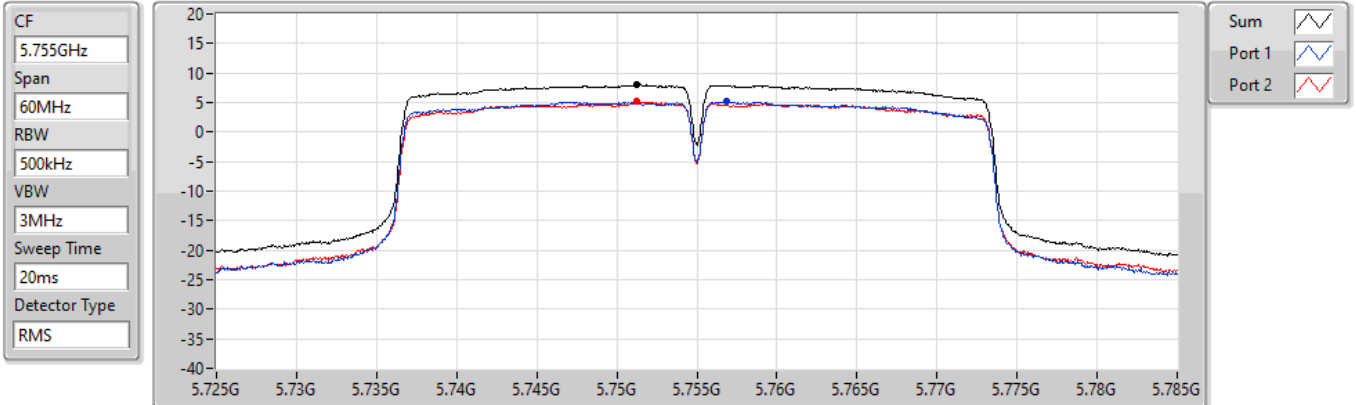


802.11n HT40_Nss1,(MCS0)_2TX

PSD

5755MHz

30/08/2022

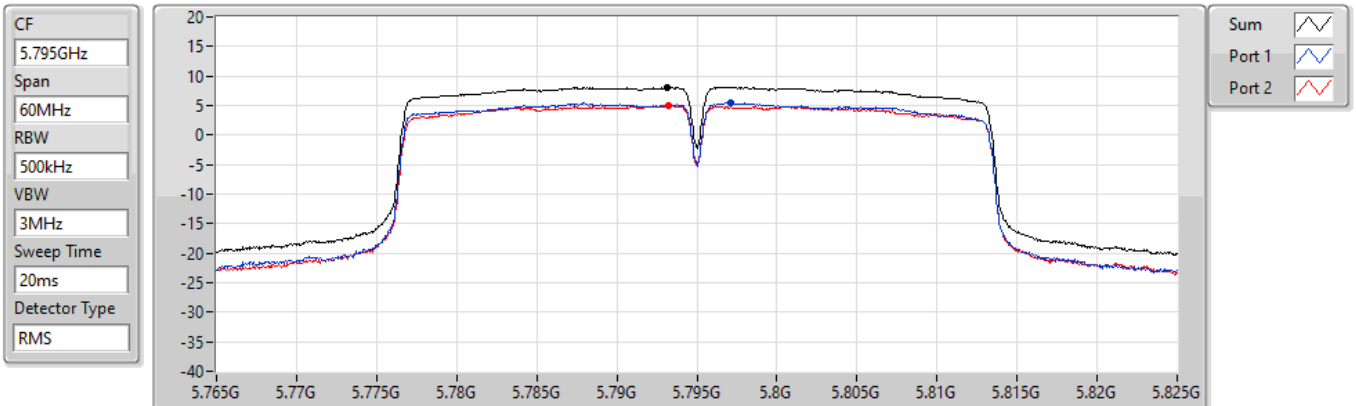


802.11n HT40_Nss1,(MCS0)_2TX

PSD

5795MHz

30/08/2022

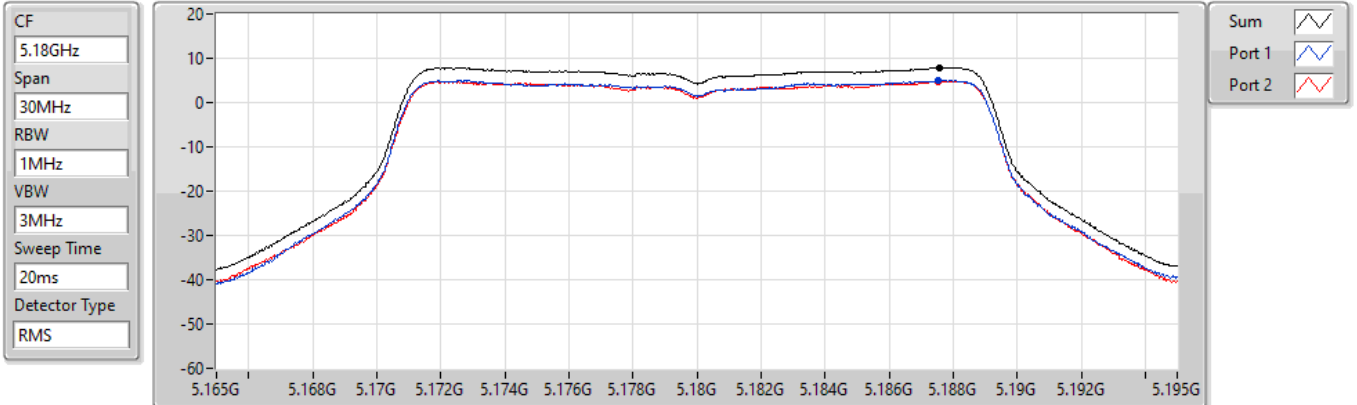


802.11ac VHT20_Nss1,(MCS0)_2TX

PSD

5180MHz

30/08/2022



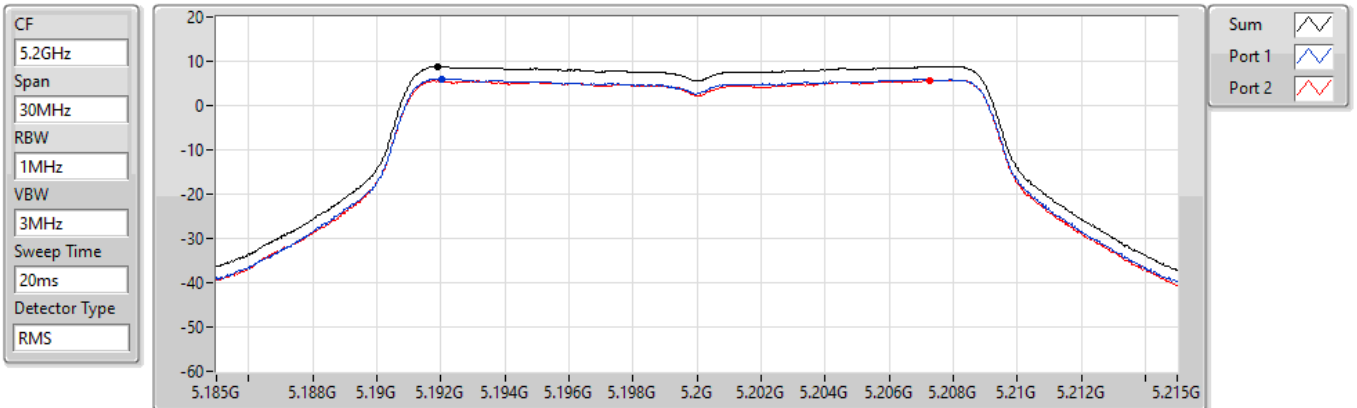
Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
7.90	7.90	5.03	4.81

802.11ac VHT20_Nss1,(MCS0)_2TX

PSD

5200MHz

30/08/2022



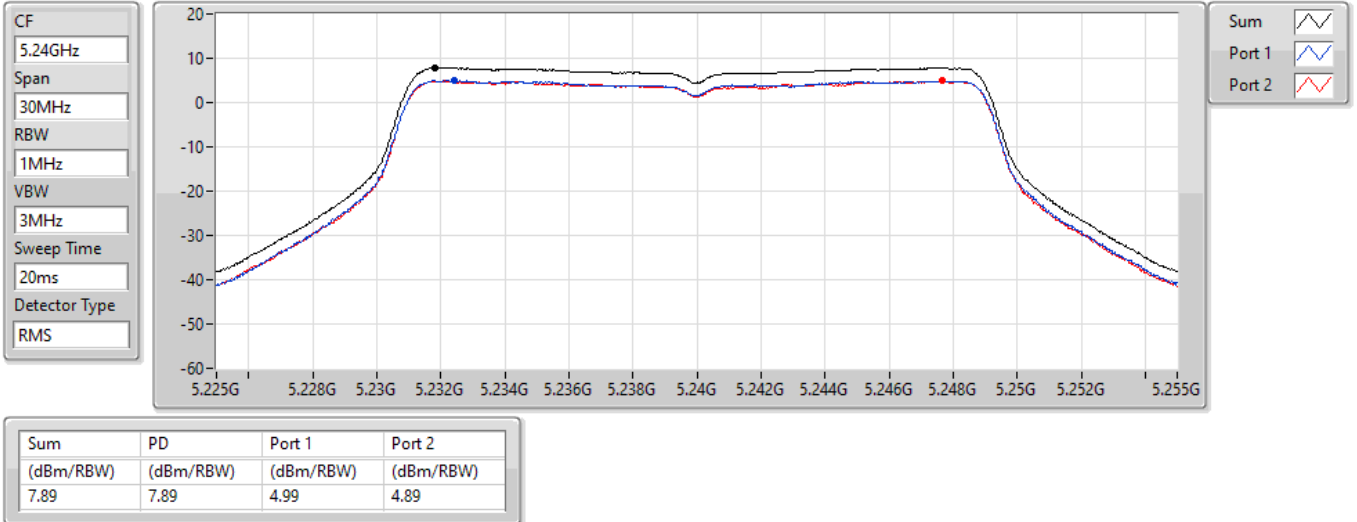
Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
8.79	8.79	6.07	5.76

802.11ac VHT20_Nss1,(MCS0)_2TX

5240MHz

PSD

30/08/2022

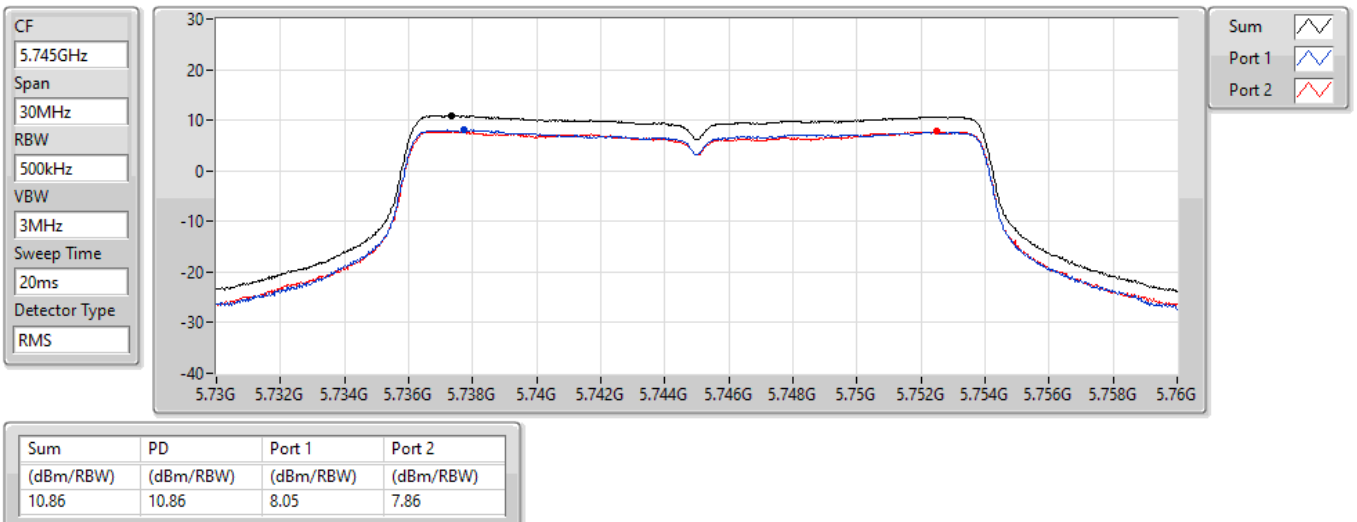


802.11ac VHT20_Nss1,(MCS0)_2TX

5745MHz

PSD

30/08/2022

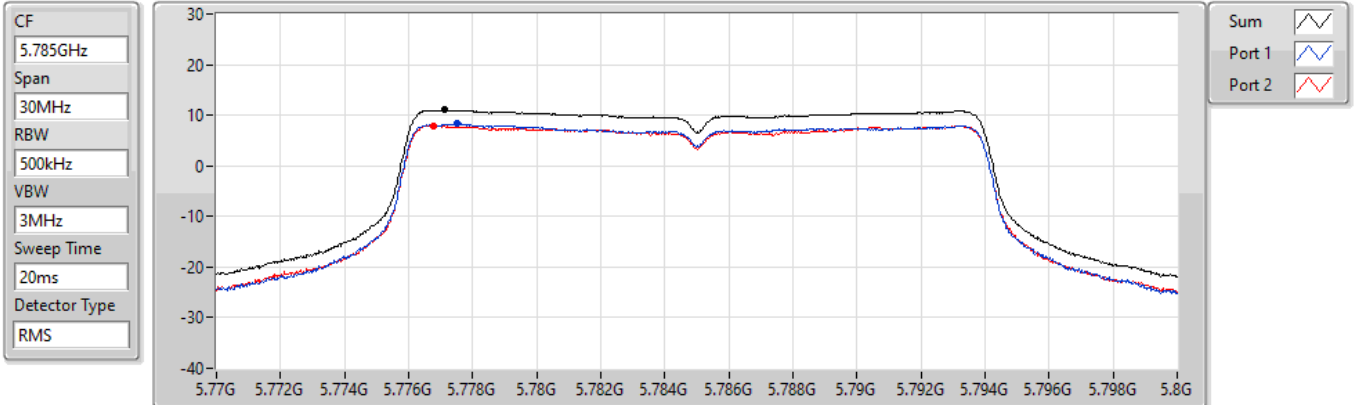


802.11ac VHT20_Nss1,(MCS0)_2TX

PSD

5785MHz

30/08/2022



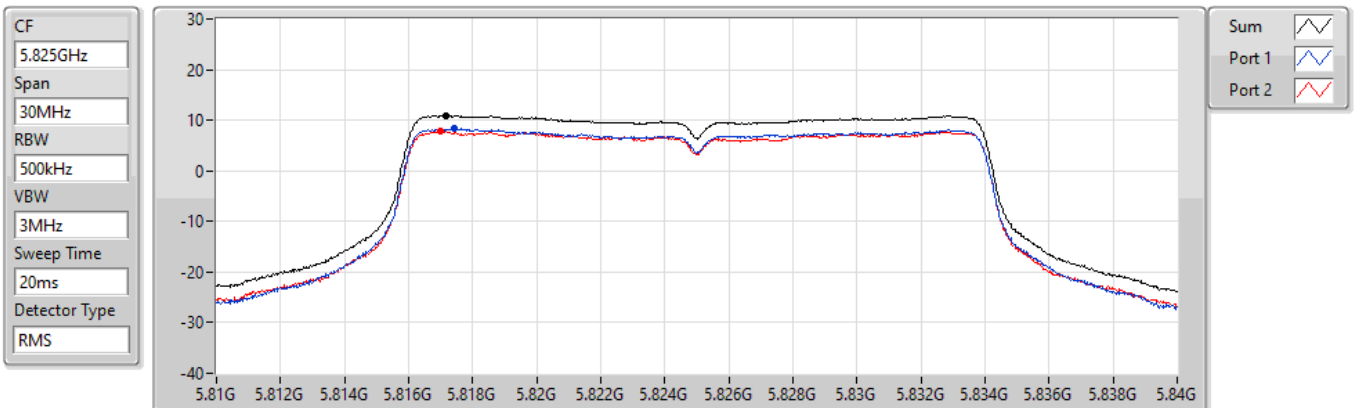
Sum	PD	Port 1	Port 2
(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)
11.07	11.07	8.44	7.96

802.11ac VHT20_Nss1,(MCS0)_2TX

PSD

5825MHz

30/08/2022



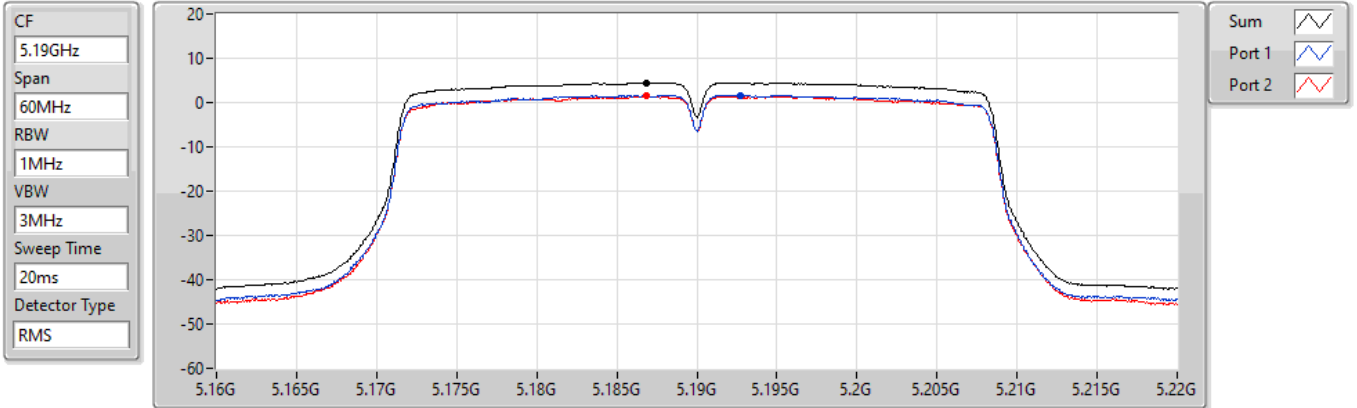
Sum	PD	Port 1	Port 2
(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)
10.92	10.92	8.31	7.76

802.11ac VHT40_Nss1,(MCS0)_2TX

PSD

5190MHz

30/08/2022

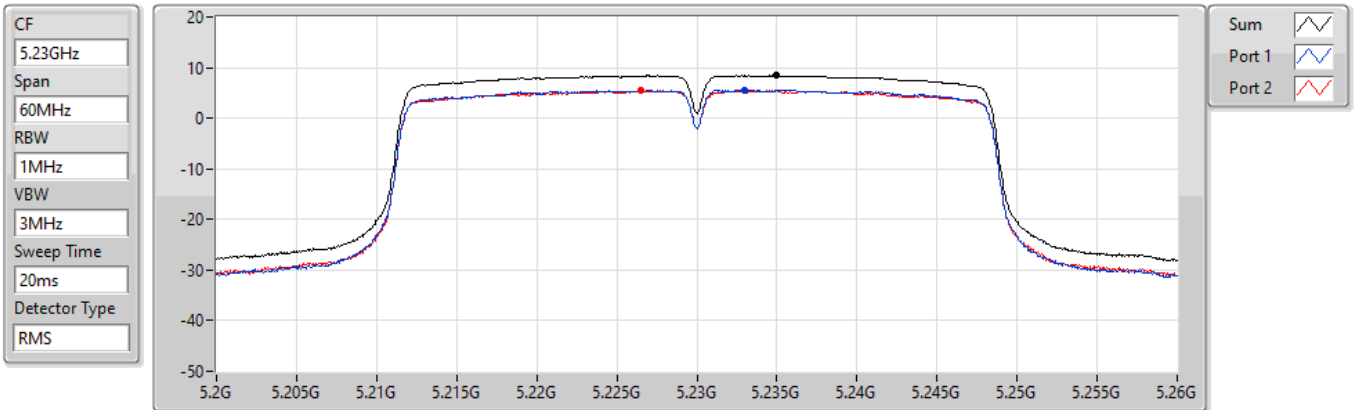


802.11ac VHT40_Nss1,(MCS0)_2TX

PSD

5230MHz

30/08/2022

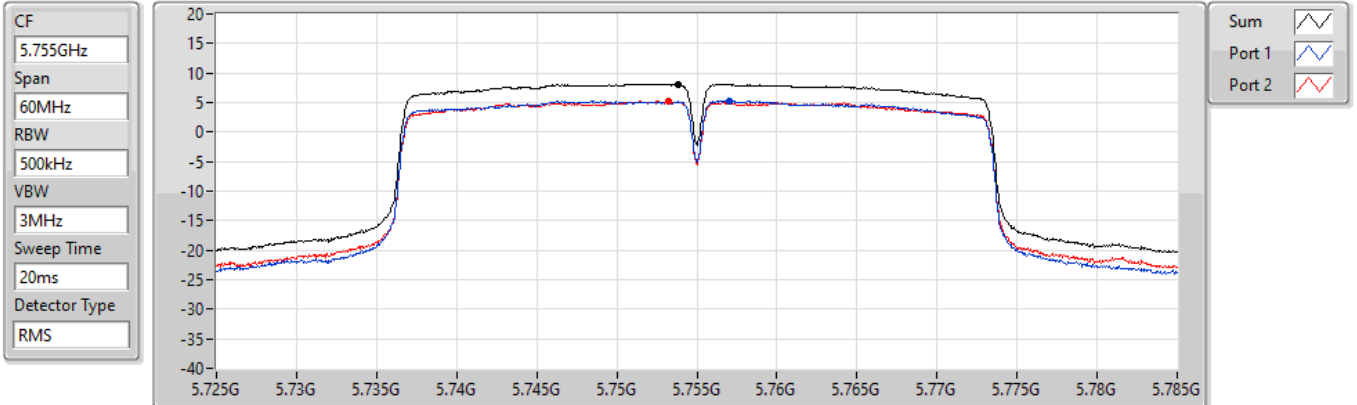


802.11ac VHT40_Nss1,(MCS0)_2TX

PSD

5755MHz

30/08/2022



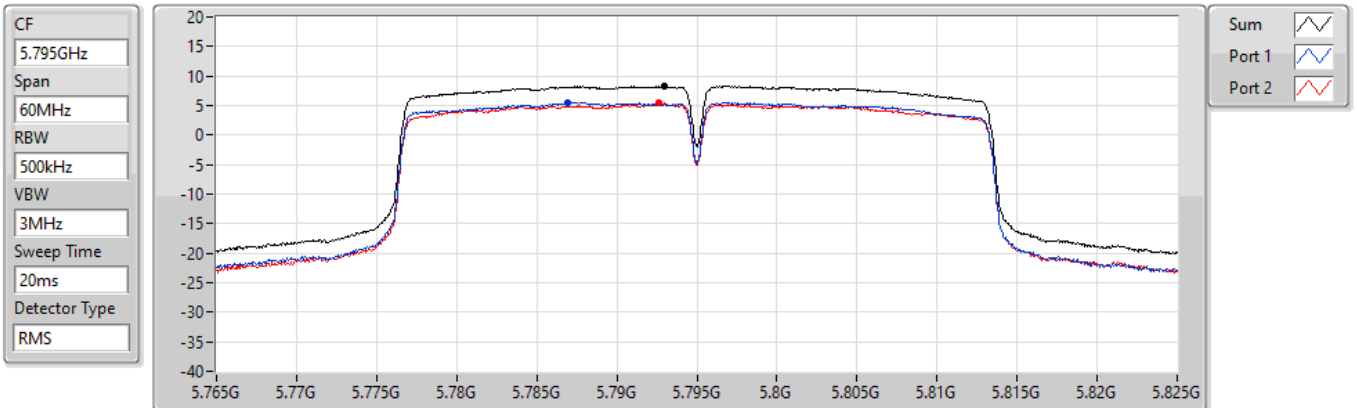
Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
8.14	8.14	5.27	5.19

802.11ac VHT40_Nss1,(MCS0)_2TX

PSD

5795MHz

30/08/2022



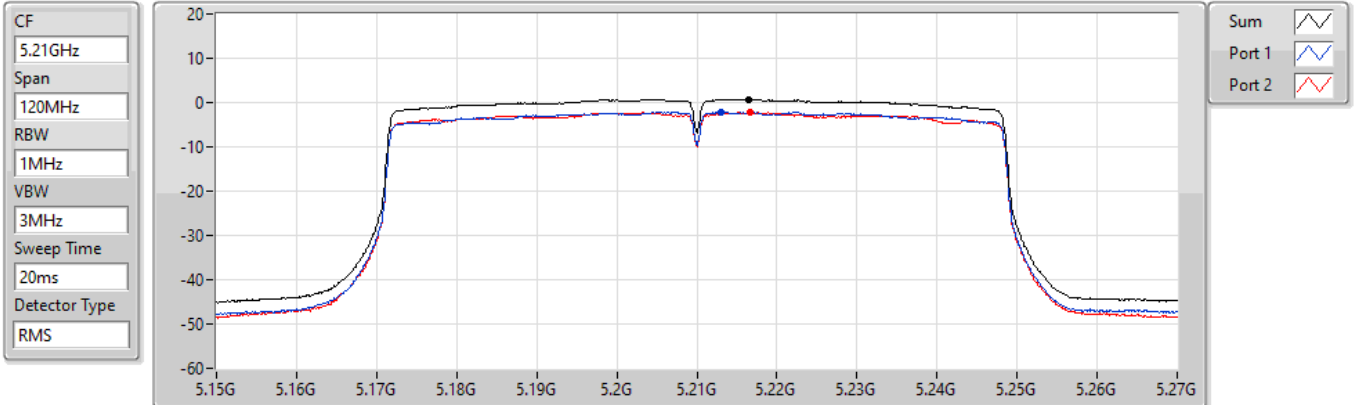
Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
8.27	8.27	5.54	5.37

802.11ac VHT80_Nss1,(MCS0)_2TX

PSD

5210MHz

30/08/2022

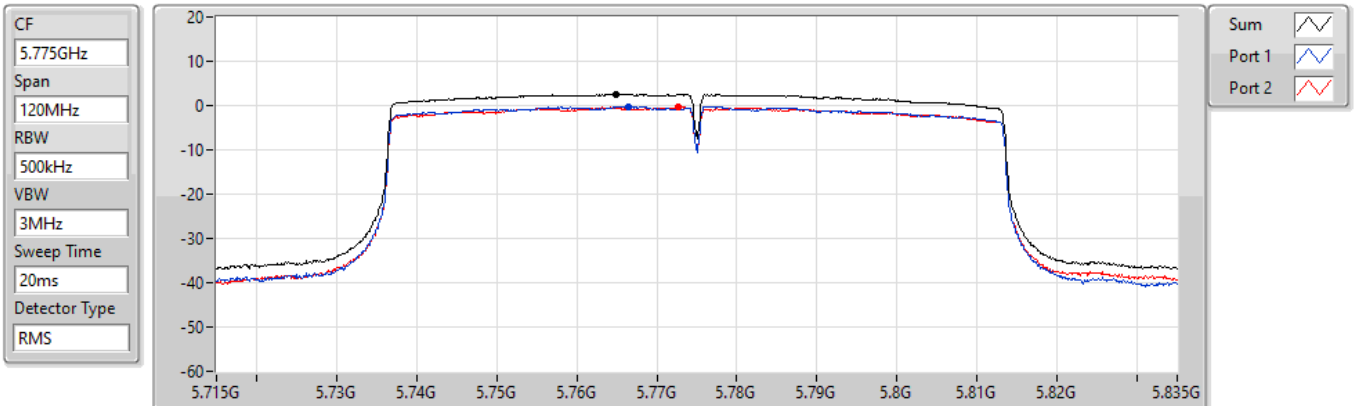


802.11ac VHT80_Nss1,(MCS0)_2TX

PSD

5775MHz

30/08/2022

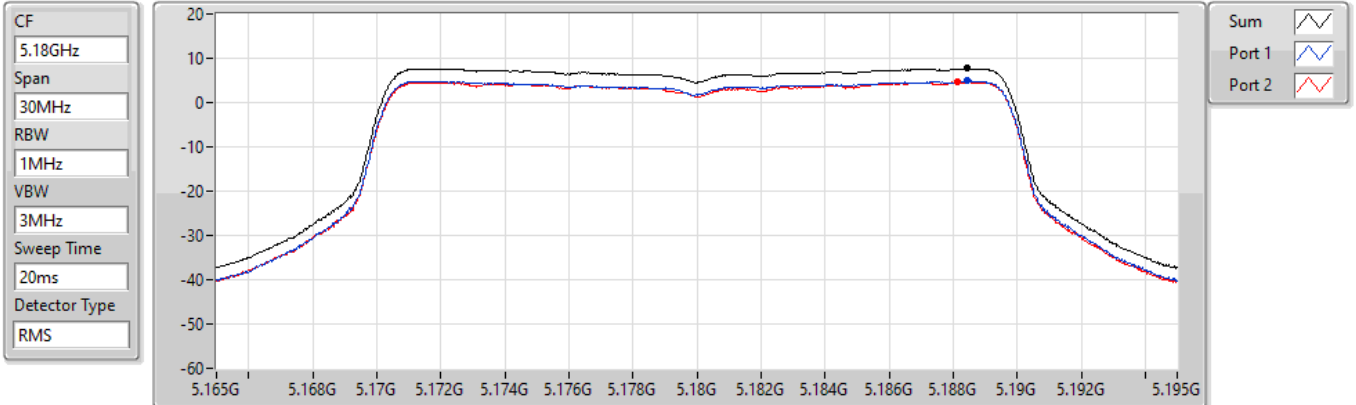


802.11ax HEW20_Nss1,(MCS0)_2TX

PSD

5180MHz

30/08/2022

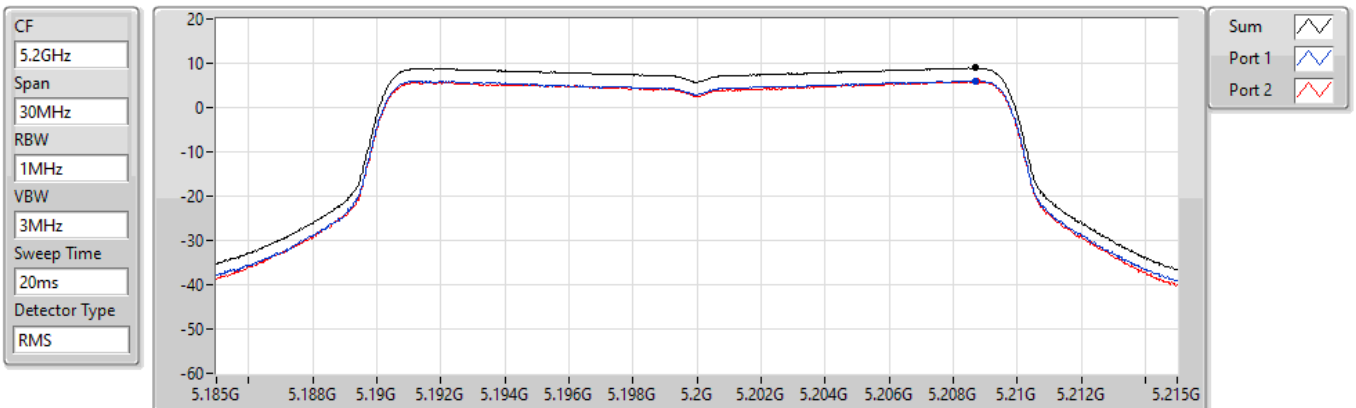


802.11ax HEW20_Nss1,(MCS0)_2TX

PSD

5200MHz

30/08/2022

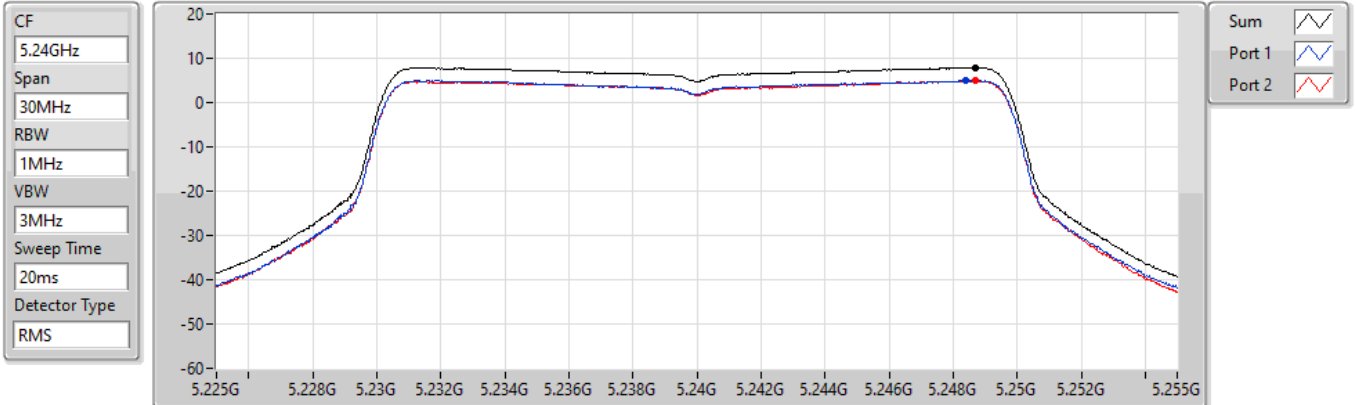


802.11ax HEW20_Nss1,(MCS0)_2TX

PSD

5240MHz

30/08/2022



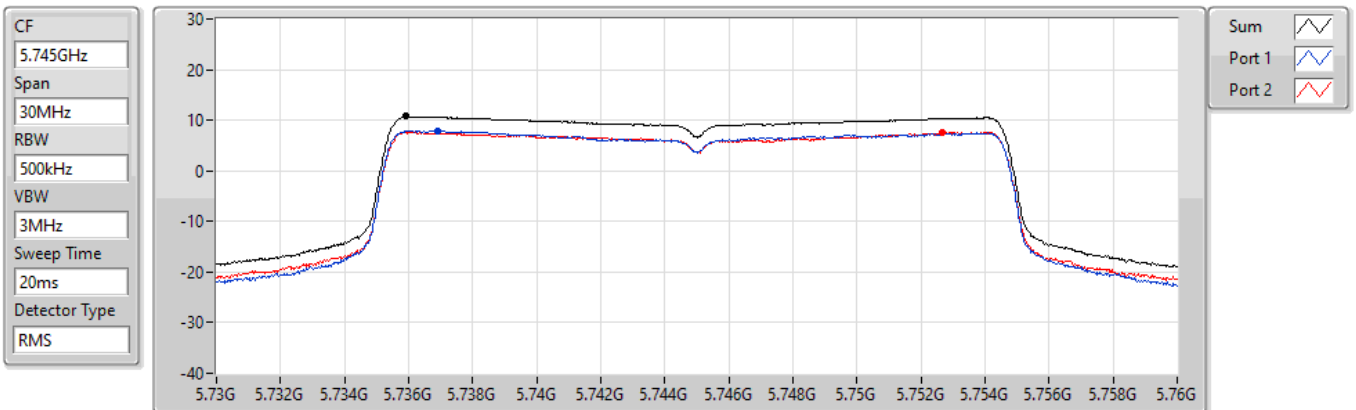
Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
7.91	7.91	5.03	4.86

802.11ax HEW20_Nss1,(MCS0)_2TX

PSD

5745MHz

30/08/2022



Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
10.73	10.73	7.91	7.65