

FCC Radio Test Report

FCC ID : TVE-3518T01236

Equipment : Secured Wireless Access Point

Brand Name : FORTINET

Model Name : FortiAP 233Gxxxxxx, FORTIAP-233Gxxxxxx, FAP-233Gxxxxxx,
(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	



TEL : 886-3-3273456
FAX : 886-3-3270973
Report Template No.: HE1-D1 Ver4.5
FCC ID: TVE-3518T01236

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	AWAN	7102A0560000	Dipole	Reverse SMA	2.4G+5G
2	AWAN	7102A0560000	Dipole	Reverse SMA	2.4G+5G
3	AWAN	7102A0561000	Dipole	I-Pex	2.4G+5G+6G
4	AWAN	7102A0562000	Dipole	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	4.94	4.58	-	-	Radio 1 2.4G 2*2 & Radio2 5G 2*2	Radio 2 5G Low Band+ Radio 3 5G High Band 2*2
2	2	5.24	4.98	-	-		
3	1	4.53	4.62	4.77	-	Radio 3 2.4G/5G/6G 2*2	
4	2	4.27	4.23	4.37	-		
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	0.943	0.25	1.977m	1k
802.11n HT20_Nss1,(MCS0)_2TX	0.851	0.7	5.428m	300
802.11n HT40_Nss1,(MCS0)_2TX	0.929	0.32	4.969m	300
802.11ac VHT20_Nss1,(MCS0)_2TX	0.872	0.59	5.43m	300
802.11ac VHT40_Nss1,(MCS0)_2TX	0.89	0.51	5.43m	300
802.11ac VHT80_Nss1,(MCS0)_2TX	0.878	0.57	5.43m	300
802.11ax HEW20_Nss1,(MCS0)_2TX	0.949	0.23	5.446m	300
802.11ax HEW40_Nss1,(MCS0)_2TX	0.945	0.25	5.446m	300
802.11ax HEW80_Nss1,(MCS0)_2TX	0.943	0.25	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	0.967	0.15	1.978m	1k
802.11n HT20_Nss1,(MCS0)_2TX	0.879	0.56	5.43m	300
802.11n HT40_Nss1,(MCS0)_2TX	0.888	0.52	5.43m	300
802.11ac VHT20_Nss1,(MCS0)_2TX	0.954	0.2	5.43m	300
802.11ac VHT40_Nss1,(MCS0)_2TX	0.908	0.42	5.43m	300
802.11ac VHT80_Nss1,(MCS0)_2TX	0.877	0.57	5.43m	300
802.11ax HEW20_Nss1,(MCS0)_2TX	0.87	0.6	5.447m	300
802.11ax HEW40_Nss1,(MCS0)_2TX	0.957	0.19	5.447m	300
802.11ax HEW80_Nss1,(MCS0)_2TX	0.935	0.29	5.447m	300

Non-Beamforming_Radio3

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq$ 1/T
802.11a_Nss1,(6Mbps)_2TX	0.965	0.15	1.978m	1k
802.11n HT20_Nss1,(MCS0)_2TX	0.888	0.52	5.43m	300
802.11n HT40_Nss1,(MCS0)_2TX	0.918	0.37	5.43m	300
802.11ac VHT20_Nss1,(MCS0)_2TX	0.916	0.38	5.43m	300
802.11ac VHT40_Nss1,(MCS0)_2TX	0.915	0.39	5.43m	300
802.11ac VHT80_Nss1,(MCS0)_2TX	0.879	0.56	5.43m	300
802.11ax HEW20_Nss1,(MCS0)_2TX	0.932	0.31	5.447m	300
802.11ax HEW40_Nss1,(MCS0)_2TX	0.928	0.32	5.447m	300
802.11ax HEW80_Nss1,(MCS0)_2TX	0.926	0.33	5.447m	300

Beamforming_Radio2

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq$ 1/T
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	0.949	0.23	5.446m	300
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	0.945	0.25	5.446m	300
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	0.943	0.25	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	0.87	0.6	5.447m	300
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	0.957	0.19	5.447m	300
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	0.935	0.29	5.447m	300

Beamforming_Radio3

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq$ 1/T
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	0.932	0.31	5.447m	300
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	0.928	0.32	5.447m	300
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	0.926	0.33	5.447m	300
802.11ax HEW160-BF_Nss1,(MCS0)_2TX	0.931	0.31	5.447m	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 233Gxxxxxx, FORTIAP-233Gxxxxxx, FAP-233Gxxxxxx, (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 v02r01
- ♦ 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
Mode	Power Setting
802.11a_Nss1,(6Mbps)_2TX	-
5180MHz	21.5
5200MHz	23
5240MHz	23
5745MHz	19
5785MHz	19.5
5825MHz	23
802.11n HT20_Nss1,(MCS0)_2TX	-
5180MHz	21
5200MHz	22.5
5240MHz	23
5745MHz	20
5785MHz	21.5
5825MHz	23
802.11n HT40_Nss1,(MCS0)_2TX	-
5190MHz	19.5
5230MHz	23
5755MHz	23
5795MHz	23
802.11ac VHT20_Nss1,(MCS0)_2TX	-
5180MHz	21
5200MHz	22.5
5240MHz	23
5745MHz	20
5785MHz	21.5
5825MHz	23
802.11ac VHT40_Nss1,(MCS0)_2TX	-
5190MHz	19.5
5230MHz	23
5755MHz	23



Mode	Power Setting
5795MHz	23
802.11ac VHT80_Nss1,(MCS0)_2TX	-
5210MHz	19
5775MHz	23
802.11ax HEW20_Nss1,(MCS0)_2TX	-
5180MHz	21
5200MHz	22.5
5240MHz	23
5745MHz	20
5785MHz	21.5
5825MHz	23
802.11ax HEW40_Nss1,(MCS0)_2TX	-
5190MHz	19.5
5230MHz	23
5755MHz	23
5795MHz	23
802.11ax HEW80_Nss1,(MCS0)_2TX	-
5210MHz	19
5775MHz	23

**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	21.5
5200MHz	23
5240MHz	23
5745MHz	23
5785MHz	23
5825MHz	23
802.11n HT20_Nss1,(MCS0)_2TX	-
5180MHz	22.5
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	22.5
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	19
5775MHz	23



Mode	Power Setting
802.11ax HEW20_Nss1,(MCS0)_2TX	-
5180MHz	22.5
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	19
5775MHz	23

**Non-Beamforming_Radio3**

Test Software Version	QDART-Connectivity1.0-00081
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Mode	Power Setting
802.11a_Nss1,(6Mbps)_2TX	-
5180MHz	19
5200MHz	20
5240MHz	18
5745MHz	23
5785MHz	23
5825MHz	23
802.11n HT20_Nss1,(MCS0)_2TX	-
5180MHz	18.5
5200MHz	18.5
5240MHz	19.5
5745MHz	23
5785MHz	23
5825MHz	23
802.11n HT40_Nss1,(MCS0)_2TX	-
5190MHz	17.5
5230MHz	22.5
5755MHz	22.5
5795MHz	23
802.11ac VHT20_Nss1,(MCS0)_2TX	-
5180MHz	18.5
5200MHz	18.5
5240MHz	19.5
5745MHz	23
5785MHz	23
5825MHz	23
802.11ac VHT40_Nss1,(MCS0)_2TX	-
5190MHz	17.5
5230MHz	22.5
5755MHz	22.5
5795MHz	23
802.11ac VHT80_Nss1,(MCS0)_2TX	-
5210MHz	17.5
5775MHz	19



Mode	Power Setting
802.11ax HEW20_Nss1,(MCS0)_2TX	-
5180MHz	18.5
5200MHz	18.5
5240MHz	19.5
5745MHz	23
5785MHz	23
5825MHz	23
802.11ax HEW40_Nss1,(MCS0)_2TX	-
5190MHz	17.5
5230MHz	22.5
5755MHz	22.5
5795MHz	23
802.11ax HEW80_Nss1,(MCS0)_2TX	-
5210MHz	17.5
5775MHz	19

**Beamforming_Radio2**

Test Software Version	DOS V6.1
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Mode	Power Setting
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	-
5180MHz	21
5200MHz	22.5
5240MHz	23
5745MHz	20
5785MHz	21.5
5825MHz	23
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-
5190MHz	19.5
5230MHz	23
5755MHz	23
5795MHz	23
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	-
5210MHz	19
5775MHz	23

**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	22.5
5200MHz	21.5
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	23
5775MHz	23

**Beamforming_Radio3**

Test Software Version	DOS V6.1
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Mode	Power Setting
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	-
5180MHz	18.5
5200MHz	18.5
5240MHz	19.5
5745MHz	23
5785MHz	23
5825MHz	23
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-
5190MHz	17.5
5230MHz	22.5
5755MHz	22.5
5795MHz	23
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	-
5210MHz	17.5
5775MHz	19

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.

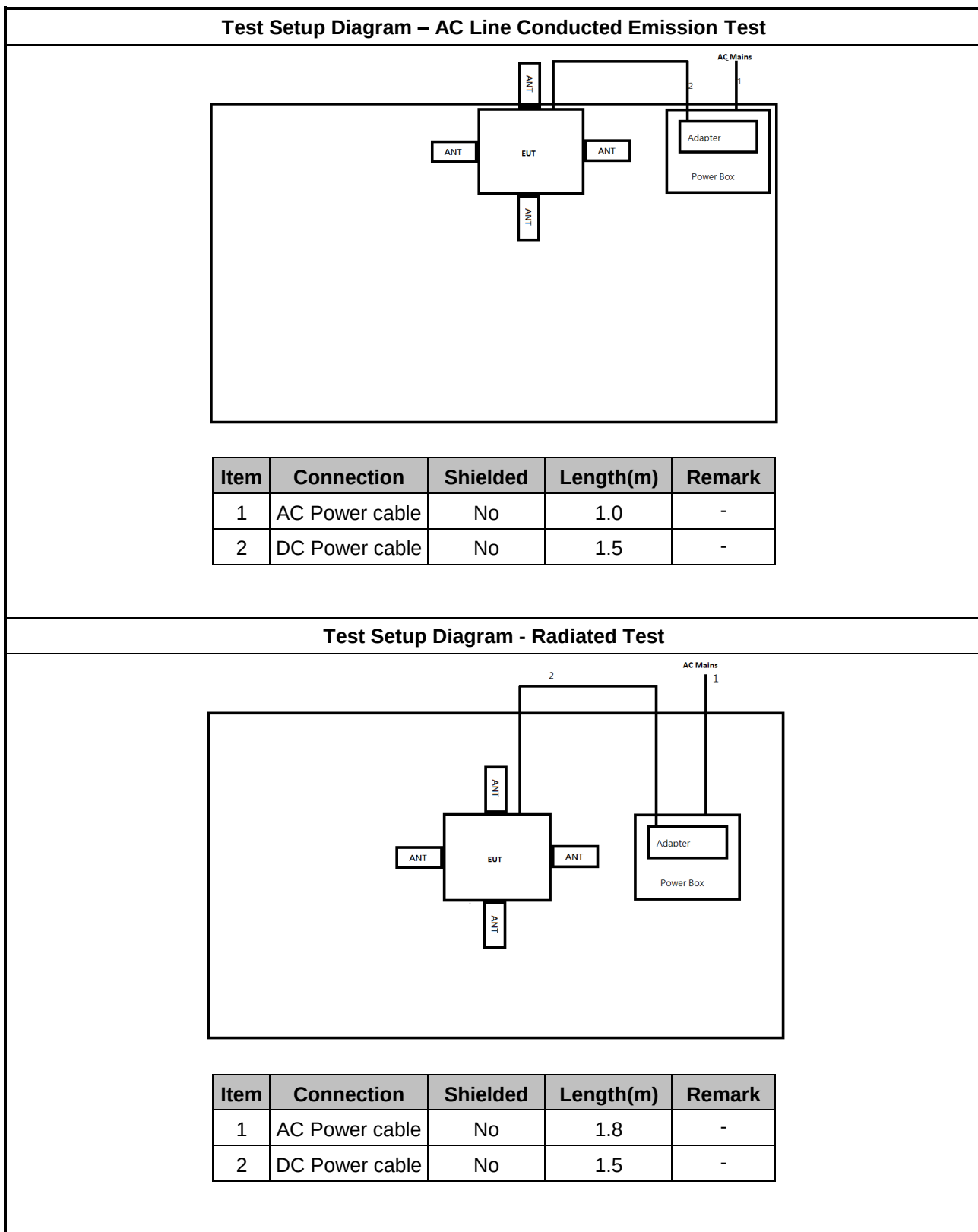
2.4 Support Equipment

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

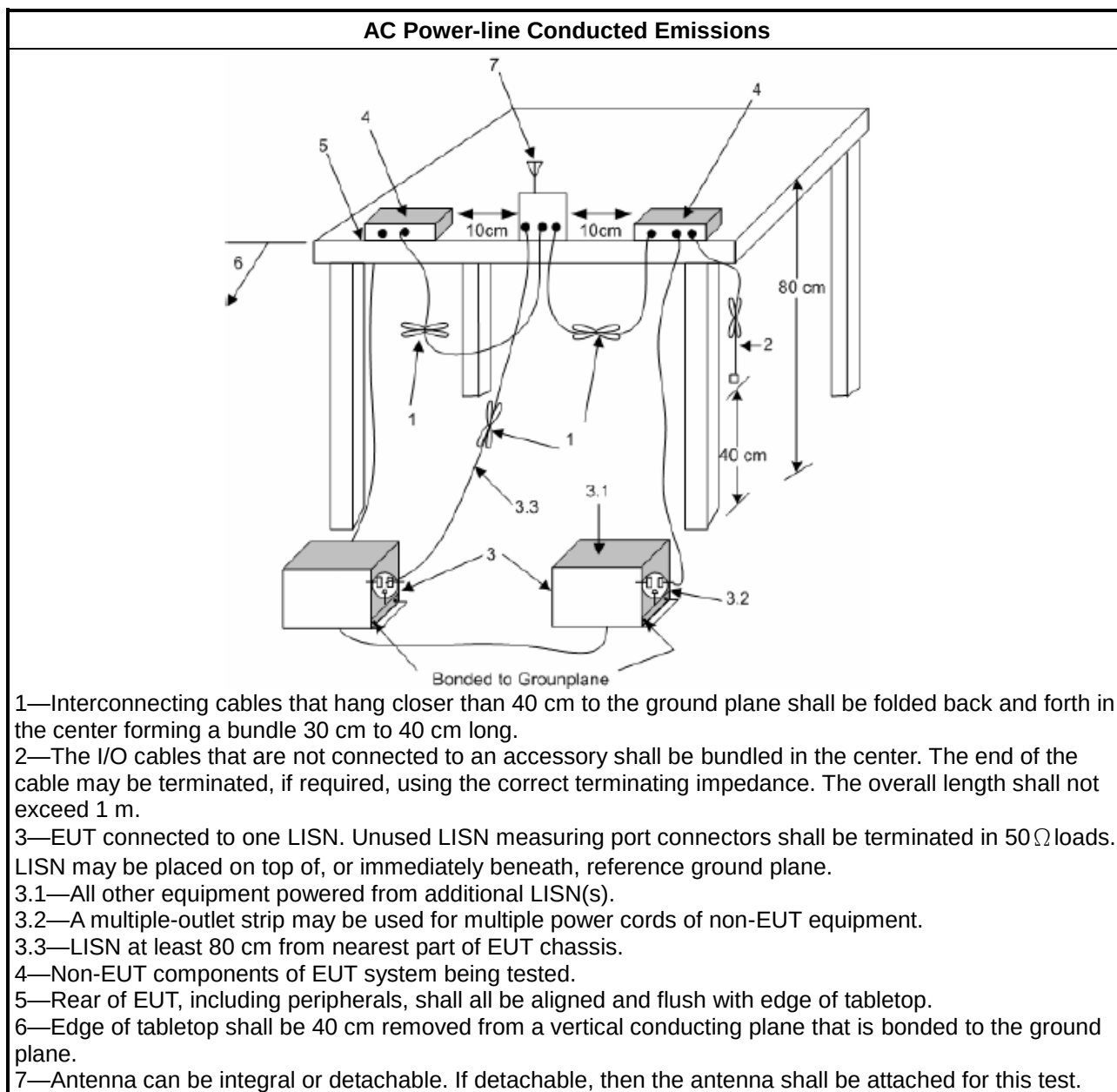
Test Method
☒ Refer as ANSI C63.10-2013, clause 6.2 for AC power-line conducted emissions.

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.

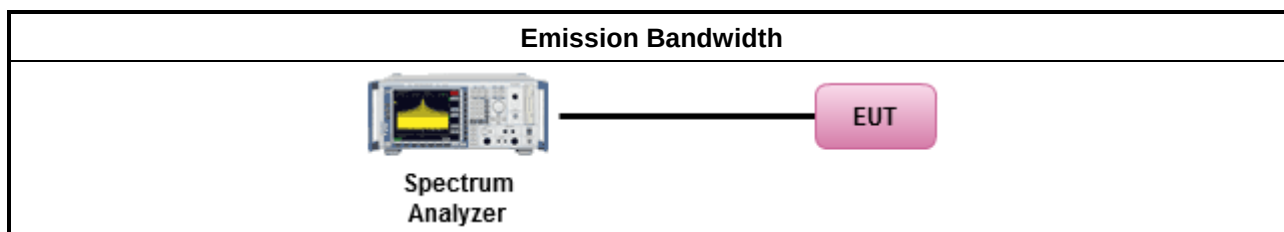
3.2.2 Measuring Instruments

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 ≤ 125 mW [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.	

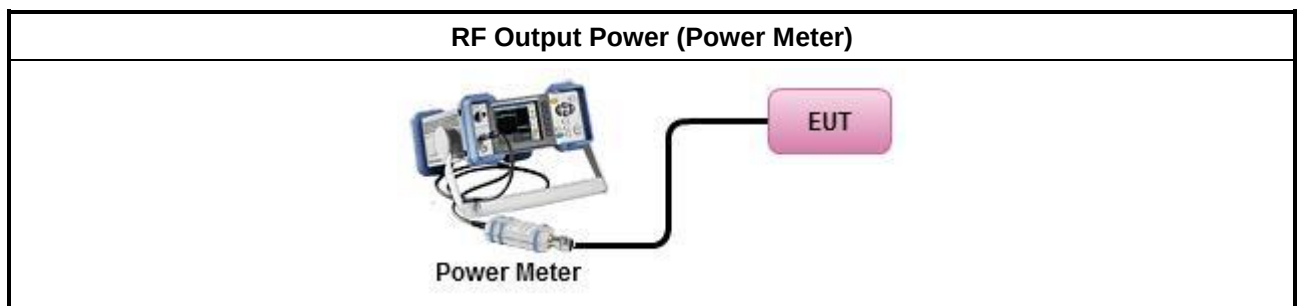
3.3.2 Measuring Instruments

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.	

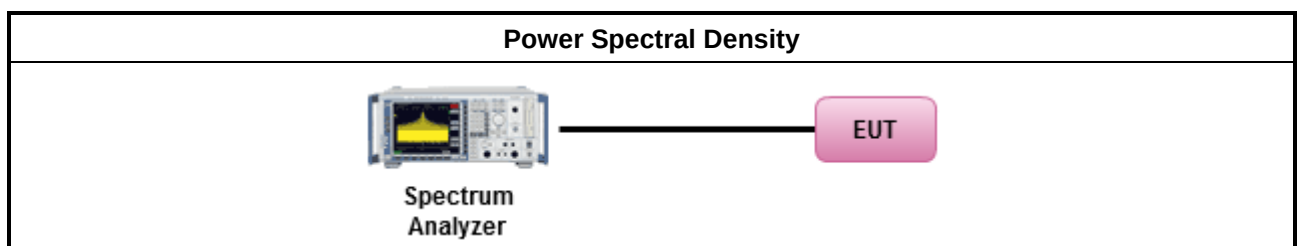
3.4.2 Measuring Instruments

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

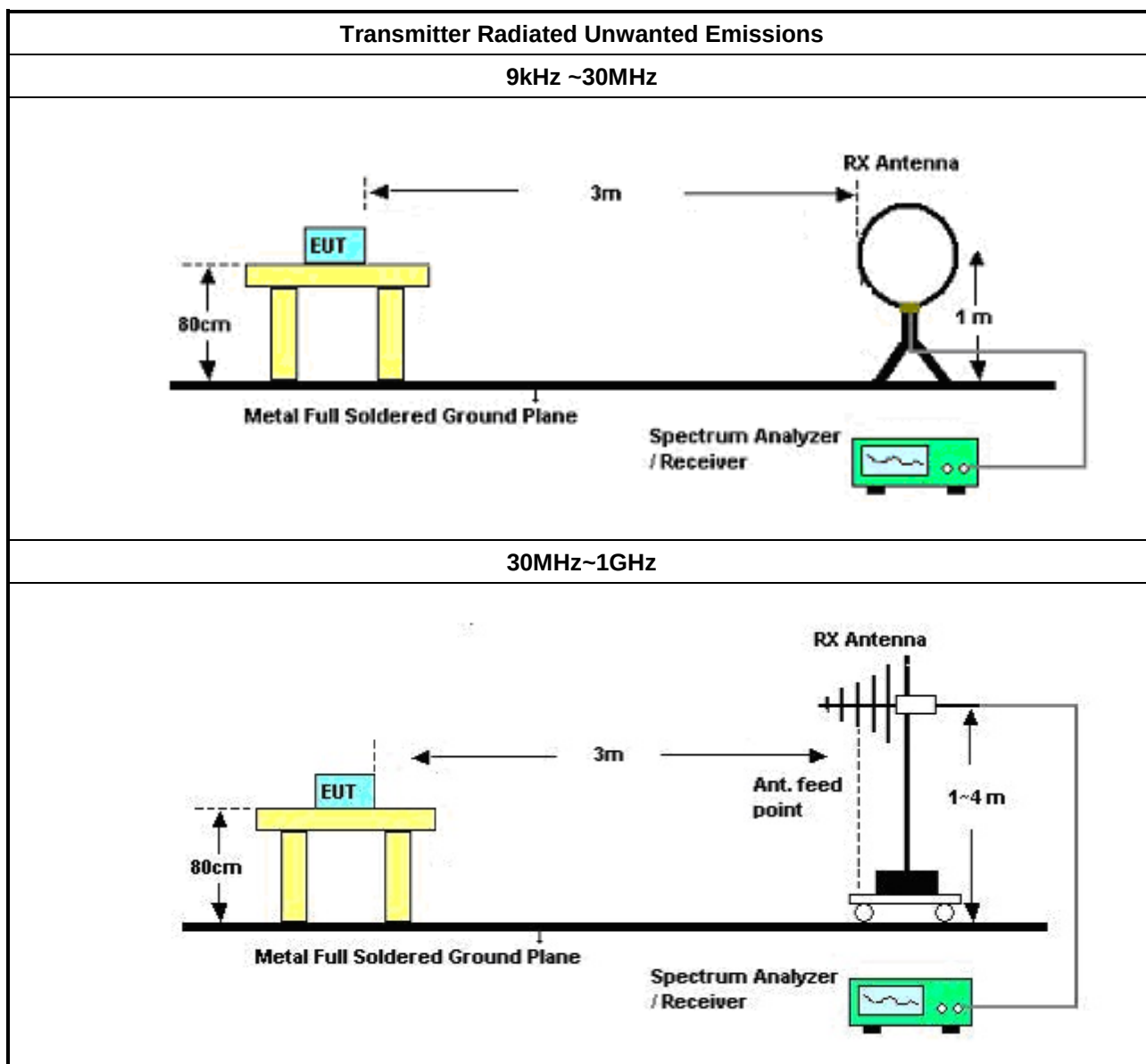
Test Method	
Measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. Measurements shall not be performed at a distance greater than 30 m for frequencies above 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.

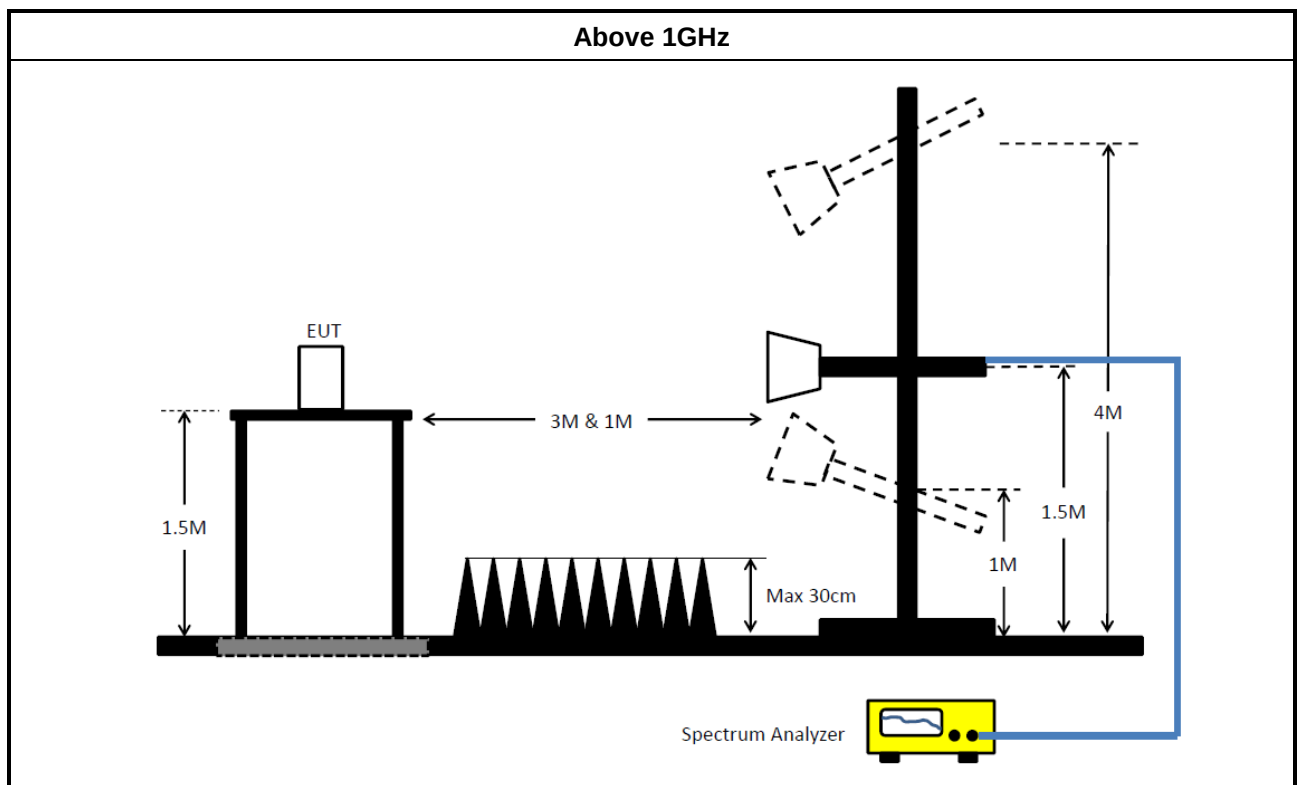
3.5.4 Measurement Results Calculation

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	02744	1GHz ~18GHz	09/Aug/2022	08/Aug/2023
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



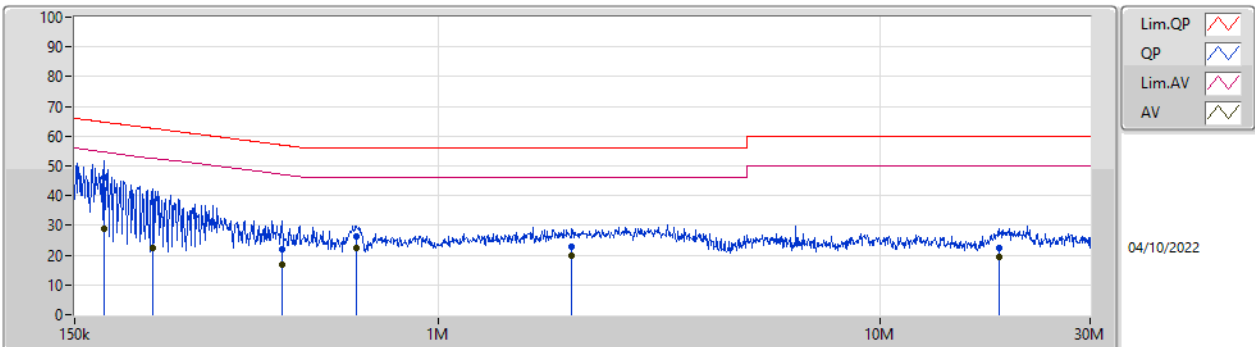
Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	QP	174.571k	46.19	64.74	-18.55	Line

Result

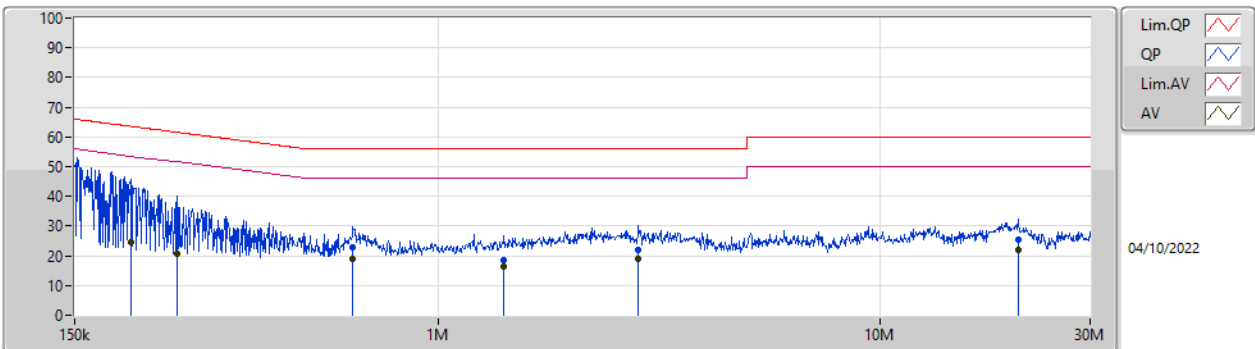
Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition	Comments
Mode 1	Pass	QP	174.571k	46.19	64.74	-18.55	Line	-
Mode 1	Pass	AV	174.571k	29.02	54.74	-25.72	Line	-
Mode 1	Pass	QP	225.388k	37.90	62.62	-24.72	Line	-
Mode 1	Pass	AV	225.388k	22.37	52.62	-30.25	Line	-
Mode 1	Pass	QP	442.514k	21.95	57.01	-35.06	Line	-
Mode 1	Pass	AV	442.514k	16.63	47.01	-30.38	Line	-
Mode 1	Pass	QP	654.382k	26.27	56.00	-29.73	Line	-
Mode 1	Pass	AV	654.382k	22.27	46.00	-23.73	Line	-
Mode 1	Pass	QP	2.009M	22.91	56.00	-33.09	Line	-
Mode 1	Pass	AV	2.009M	19.75	46.00	-26.25	Line	-
Mode 1	Pass	QP	18.639M	22.49	60.00	-37.51	Line	-
Mode 1	Pass	AV	18.639M	19.60	50.00	-30.40	Line	-
Mode 1	Pass	QP	200.748k	41.45	63.57	-22.12	Neutral	-
Mode 1	Pass	AV	200.748k	24.71	53.57	-28.86	Neutral	-
Mode 1	Pass	QP	256.1k	33.95	61.56	-27.61	Neutral	-
Mode 1	Pass	AV	256.1k	20.80	51.56	-30.76	Neutral	-
Mode 1	Pass	QP	641.45k	23.02	56.00	-32.98	Neutral	-
Mode 1	Pass	AV	641.45k	18.95	46.00	-27.05	Neutral	-
Mode 1	Pass	QP	1.408M	18.64	56.00	-37.36	Neutral	-
Mode 1	Pass	AV	1.408M	16.33	46.00	-29.67	Neutral	-
Mode 1	Pass	QP	2.843M	22.13	56.00	-33.87	Neutral	-
Mode 1	Pass	AV	2.843M	19.01	46.00	-26.99	Neutral	-
Mode 1	Pass	QP	20.595M	25.34	60.00	-34.66	Neutral	-
Mode 1	Pass	AV	20.595M	22.09	50.00	-27.91	Neutral	-

Conducted Emissions at Powerline_Mode 1



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	174.571k	46.19	64.74	-18.55	19.63	Line	-	26.56	9.69	0.03	9.91			
AV	174.571k	29.02	54.74	-25.72	19.63	Line	-	9.39	9.69	0.03	9.91			
QP	225.388k	37.90	62.62	-24.72	19.63	Line	-	18.27	9.69	0.03	9.91			
AV	225.388k	22.37	52.62	-30.25	19.63	Line	-	2.74	9.69	0.03	9.91			
QP	442.514k	21.95	57.01	-35.06	19.63	Line	-	2.32	9.68	0.04	9.91			
AV	442.514k	16.63	47.01	-30.38	19.63	Line	-	-3.00	9.68	0.04	9.91			
QP	654.382k	26.27	56.00	-29.73	19.65	Line	-	6.62	9.68	0.05	9.92			
AV	654.382k	22.27	46.00	-23.73	19.65	Line	-	2.62	9.68	0.05	9.92			
QP	2.009M	22.91	56.00	-33.09	19.70	Line	-	3.21	9.70	0.08	9.92			
AV	2.009M	19.75	46.00	-26.25	19.70	Line	-	0.05	9.70	0.08	9.92			
QP	18.639M	22.49	60.00	-37.51	19.98	Line	-	2.51	9.79	0.26	9.93			
AV	18.639M	19.60	50.00	-30.40	19.98	Line	-	-0.38	9.79	0.26	9.93			

Conducted Emissions at Powerline_Mode 1



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	200.748k	41.45	63.57	-22.12	19.66	Neutral	-	21.79	9.72	0.03	9.91			
AV	200.748k	24.71	53.57	-28.86	19.66	Neutral	-	5.05	9.72	0.03	9.91			
QP	256.1k	33.95	61.56	-27.61	19.66	Neutral	-	14.29	9.72	0.03	9.91			
AV	256.1k	20.80	51.56	-30.76	19.66	Neutral	-	1.14	9.72	0.03	9.91			
QP	641.45k	23.02	56.00	-32.98	19.70	Neutral	-	3.32	9.73	0.05	9.92			
AV	641.45k	18.95	46.00	-27.05	19.70	Neutral	-	-0.75	9.73	0.05	9.92			
QP	1.408M	18.64	56.00	-37.36	19.71	Neutral	-	-1.07	9.73	0.06	9.92			
AV	1.408M	16.33	46.00	-29.67	19.71	Neutral	-	-3.38	9.73	0.06	9.92			
QP	2.843M	22.13	56.00	-33.87	19.78	Neutral	-	2.35	9.75	0.11	9.92			
AV	2.843M	19.01	46.00	-26.99	19.78	Neutral	-	-0.77	9.75	0.11	9.92			
QP	20.595M	25.34	60.00	-34.66	20.21	Neutral	-	5.13	10.00	0.28	9.93			
AV	20.595M	22.09	50.00	-27.91	20.21	Neutral	-	1.88	10.00	0.28	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	31.47M	17.076M	17M1D1D	20.67M	16.363M
802.11n HT20_Nss1,(MCS0)_2TX	22.14M	17.631M	17M6D1D	21.21M	17.543M
802.11n HT40_Nss1,(MCS0)_2TX	54.48M	36.379M	36M4D1D	40.5M	36.085M
802.11ac VHT20_Nss1,(MCS0)_2TX	21.69M	17.602M	17M6D1D	20.88M	17.543M
802.11ac VHT40_Nss1,(MCS0)_2TX	51.06M	36.438M	36M4D1D	40.5M	36.085M
802.11ac VHT80_Nss1,(MCS0)_2TX	81.72M	75.344M	75M3D1D	81.48M	75.109M
802.11ax HEW20_Nss1,(MCS0)_2TX	21.93M	18.954M	19M0D1D	21.45M	18.865M
802.11ax HEW40_Nss1,(MCS0)_2TX	45.3M	37.848M	37M8D1D	40.68M	37.672M
802.11ax HEW80_Nss1,(MCS0)_2TX	82.2M	76.99M	77M0D1D	82.2M	76.872M
5.725-5.85GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	16.32M	19.319M	19M3D1D	15.42M	16.337M
802.11n HT20_Nss1,(MCS0)_2TX	17.49M	18.278M	18M3D1D	16.5M	17.572M
802.11n HT40_Nss1,(MCS0)_2TX	36.3M	41.903M	41M9D1D	35.94M	36.203M
802.11ac VHT20_Nss1,(MCS0)_2TX	16.92M	18.278M	18M3D1D	15.39M	17.543M
802.11ac VHT40_Nss1,(MCS0)_2TX	36.3M	42.491M	42M5D1D	36.24M	36.261M
802.11ac VHT80_Nss1,(MCS0)_2TX	73.08M	76.402M	76M4D1D	71.4M	75.697M
802.11ax HEW20_Nss1,(MCS0)_2TX	18.48M	19.247M	19M2D1D	16.53M	18.895M
802.11ax HEW40_Nss1,(MCS0)_2TX	38.04M	38.73M	38M7D1D	37.32M	37.907M
802.11ax HEW80_Nss1,(MCS0)_2TX	76.68M	77.695M	77M7D1D	76.2M	77.577M

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	31.47M	17.076M	29.1M	16.924M
5200MHz	Pass	Inf	20.82M	16.388M	20.76M	16.414M
5240MHz	Pass	Inf	20.67M	16.388M	20.76M	16.363M
5745MHz	Pass	500k	15.66M	16.337M	15.42M	16.363M
5785MHz	Pass	500k	15.75M	16.337M	16.32M	16.388M
5825MHz	Pass	500k	15.63M	19.319M	15.69M	16.49M
802.11n HT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5180MHz	Pass	Inf	21.57M	17.572M	21.24M	17.543M
5200MHz	Pass	Inf	21.21M	17.602M	22.14M	17.631M
5240MHz	Pass	Inf	21.42M	17.572M	21.39M	17.602M
5745MHz	Pass	500k	16.5M	17.572M	17.49M	17.572M
5785MHz	Pass	500k	17.13M	17.572M	17.25M	17.602M
5825MHz	Pass	500k	16.74M	18.278M	17.31M	17.661M
802.11n HT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5190MHz	Pass	Inf	40.62M	36.144M	40.5M	36.085M
5230MHz	Pass	Inf	54.48M	36.379M	41.28M	36.085M
5755MHz	Pass	500k	35.94M	41.903M	35.94M	36.203M
5795MHz	Pass	500k	36.3M	41.727M	36.3M	36.379M
802.11ac VHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5180MHz	Pass	Inf	21.57M	17.572M	21.45M	17.602M
5200MHz	Pass	Inf	21.51M	17.602M	20.88M	17.572M
5240MHz	Pass	Inf	21.69M	17.602M	21M	17.543M
5745MHz	Pass	500k	16.74M	17.572M	16.11M	17.543M
5785MHz	Pass	500k	15.39M	17.602M	16.86M	17.572M
5825MHz	Pass	500k	16.92M	18.278M	16.5M	17.661M
802.11ac VHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5190MHz	Pass	Inf	40.62M	36.144M	40.62M	36.144M
5230MHz	Pass	Inf	51.06M	36.438M	40.5M	36.085M
5755MHz	Pass	500k	36.3M	42.491M	36.3M	36.261M
5795MHz	Pass	500k	36.3M	42.08M	36.24M	36.438M
802.11ac VHT80_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5210MHz	Pass	Inf	81.48M	75.109M	81.72M	75.344M
5775MHz	Pass	500k	73.08M	76.402M	71.4M	75.697M
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5180MHz	Pass	Inf	21.69M	18.924M	21.54M	18.865M
5200MHz	Pass	Inf	21.57M	18.895M	21.45M	18.865M
5240MHz	Pass	Inf	21.93M	18.924M	21.78M	18.954M
5745MHz	Pass	500k	17.28M	18.895M	18.48M	18.895M
5785MHz	Pass	500k	18.21M	18.924M	17.46M	18.924M
5825MHz	Pass	500k	16.53M	19.247M	17.28M	18.954M
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5190MHz	Pass	Inf	40.86M	37.672M	40.92M	37.672M
5230MHz	Pass	Inf	45.3M	37.848M	40.68M	37.672M
5755MHz	Pass	500k	37.32M	38.671M	37.5M	37.966M
5795MHz	Pass	500k	38.04M	38.73M	37.44M	37.907M
802.11ax HEW80_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5210MHz	Pass	Inf	82.2M	76.99M	82.2M	76.872M
5775MHz	Pass	500k	76.2M	77.695M	76.68M	77.577M

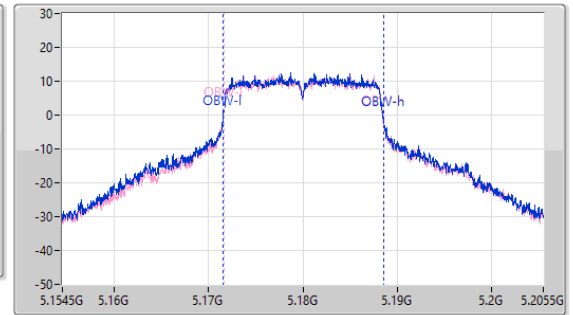
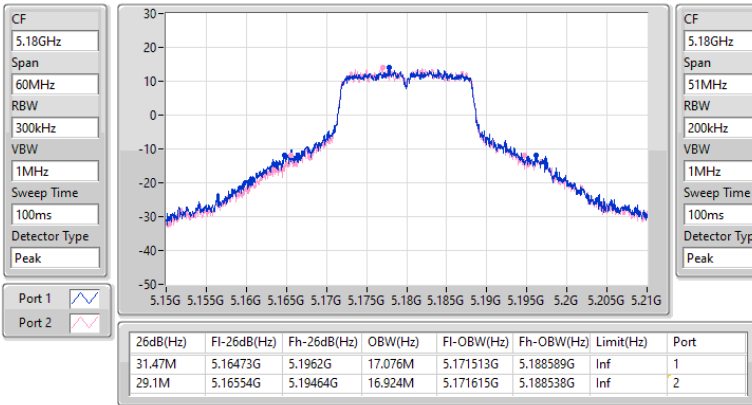
Port X-N dB = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band
Port X-OBW = Port X 99% occupied bandwidth

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

EBW

5180MHz

09/10/2022

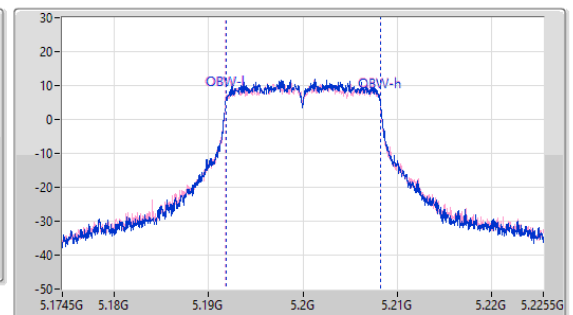
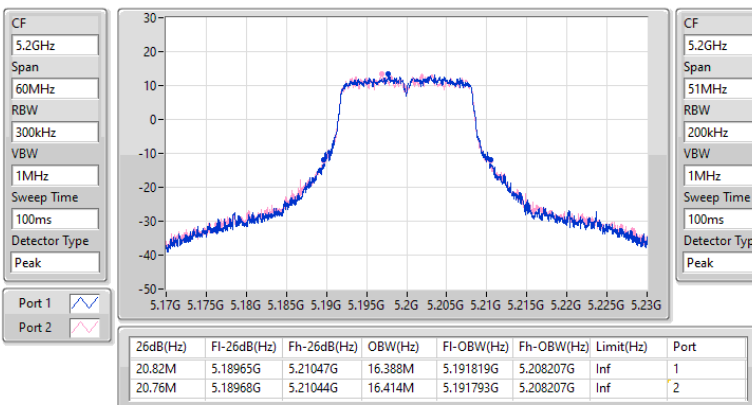


5.15-5.25GHz_802.11a_Nss1,(6Mbps)_2TX

EBW

5200MHz

09/10/2022

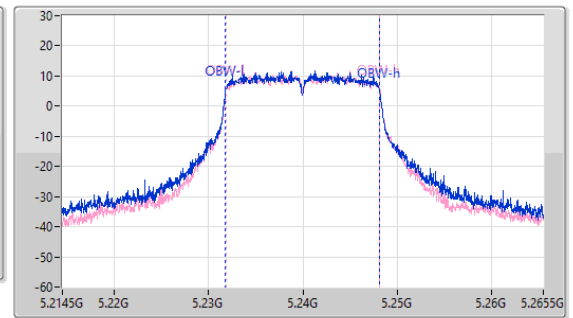
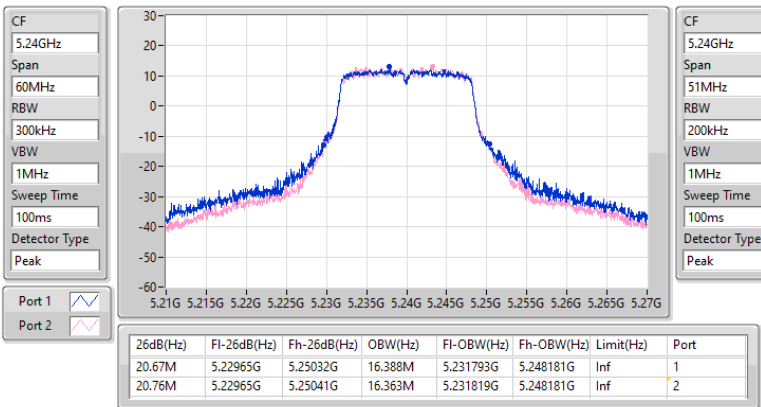


5.15-5.25GHz_802.11a_Nss1,(6Mbps)_2TX

EBW

5240MHz

09/10/2022

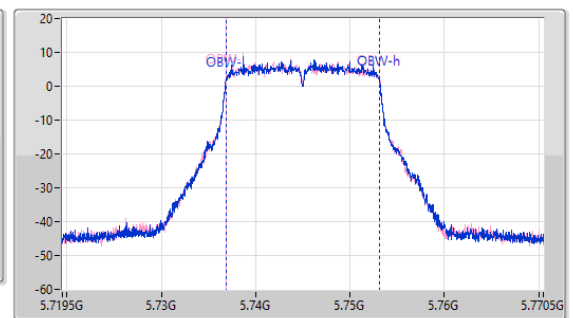
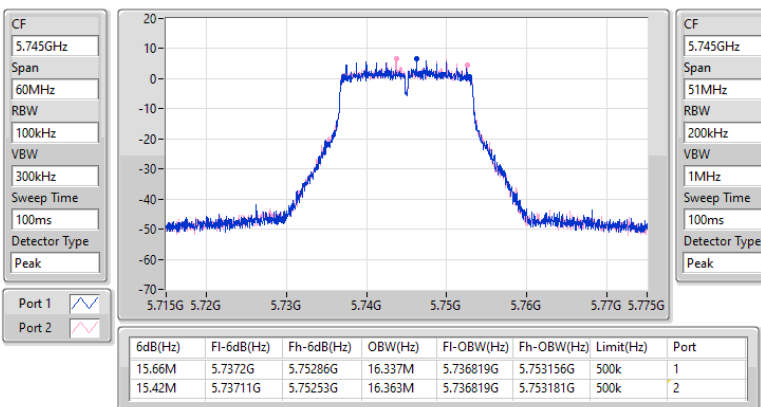


5.725-5.85GHz_802.11a_Nss1,(6Mbps)_2TX

EBW

5745MHz

09/10/2022

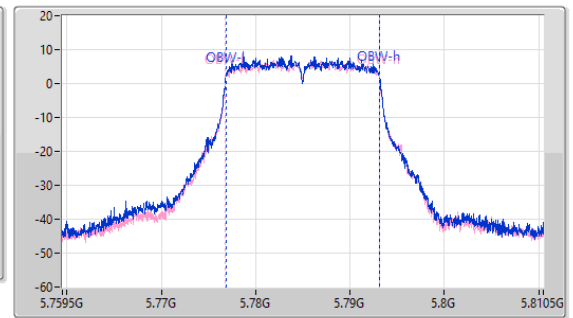
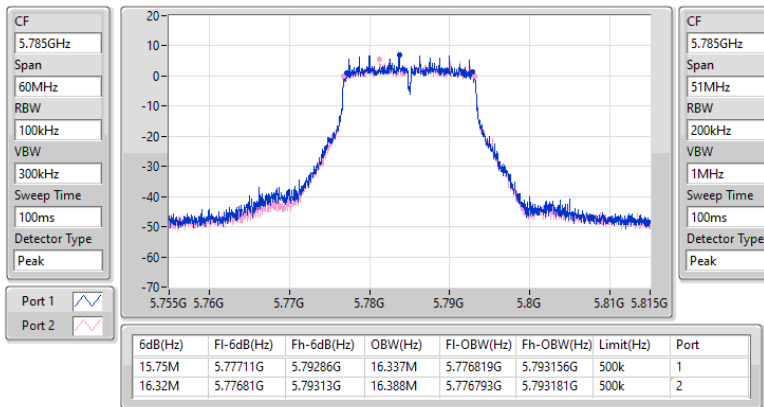


5.725-5.85GHz_802.11a_Nss1,(6Mbps)_2TX

EBW

5785MHz

09/10/2022

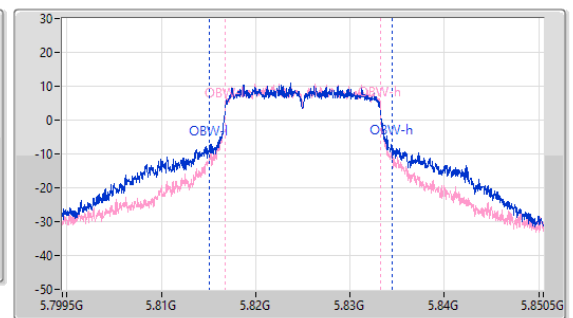
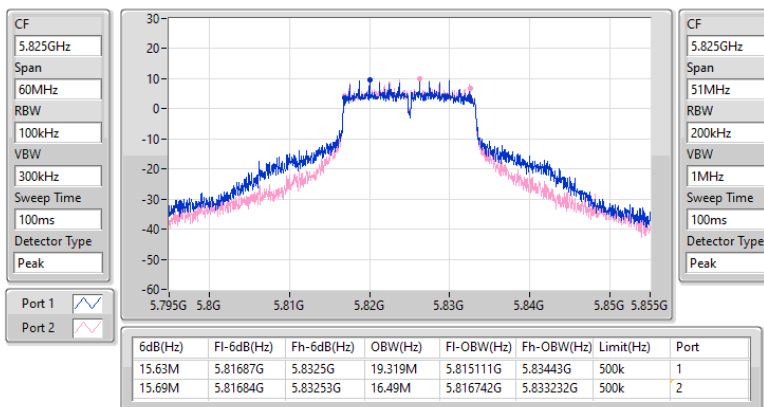


5.725-5.85GHz_802.11a_Nss1,(6Mbps)_2TX

EBW

5825MHz

09/10/2022

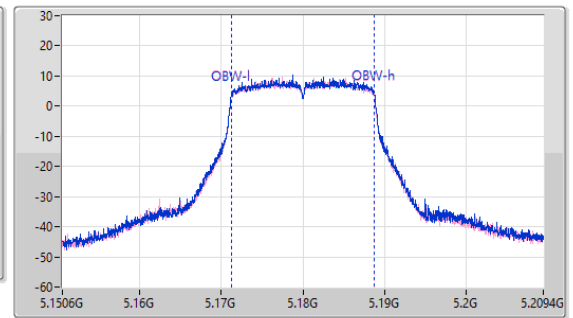
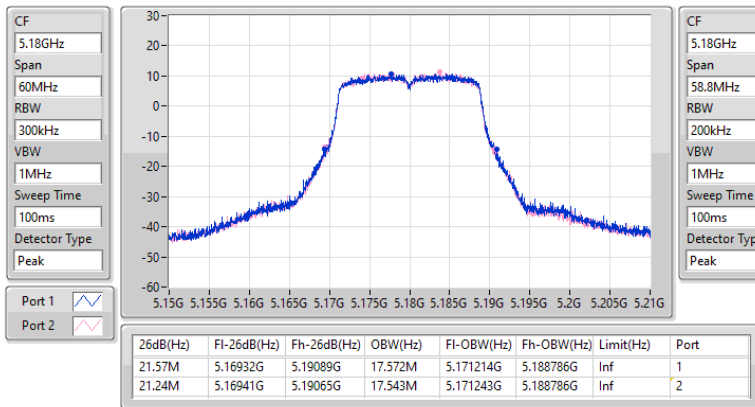


5.15-5.25GHz_802.11n HT20_Nss1,(MCS0)_2TX

EBW

5180MHz

09/10/2022

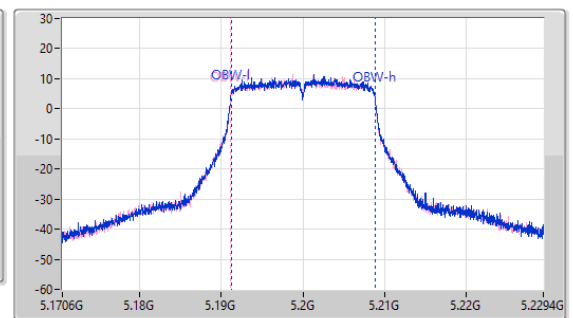
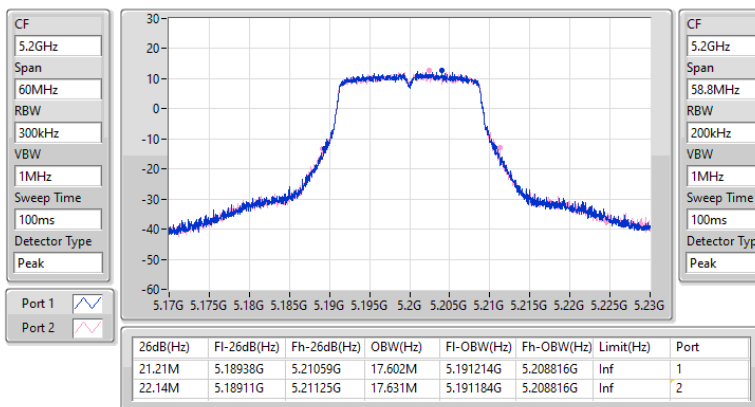


5.15-5.25GHz_802.11n HT20_Nss1,(MCS0)_2TX

EBW

5200MHz

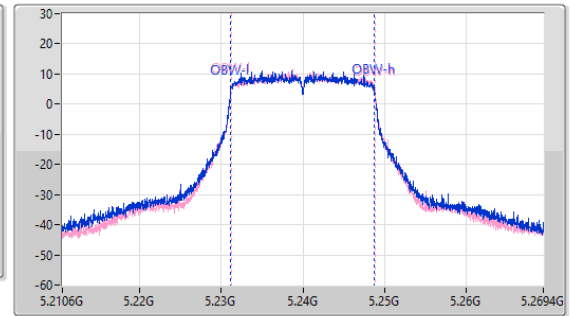
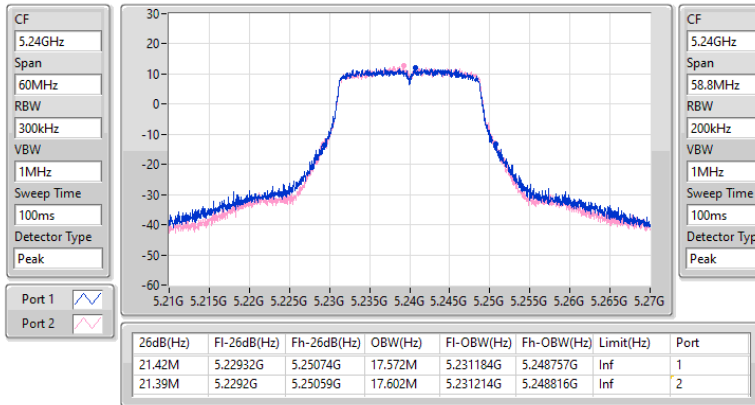
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5.15-5.25GHz_802.11n HT20_Nss1,(MCS0)_2TX
5240MHz

EBW

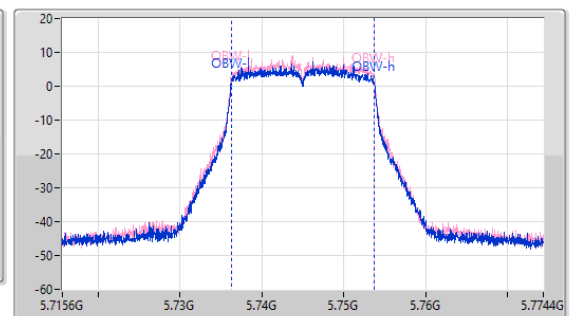
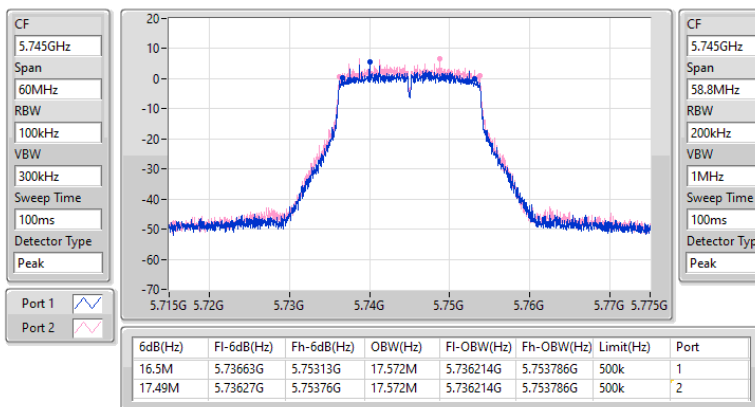
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5.725-5.85GHz_802.11n HT20_Nss1,(MCS0)_2TX
5745MHz

EBW

09/10/2022

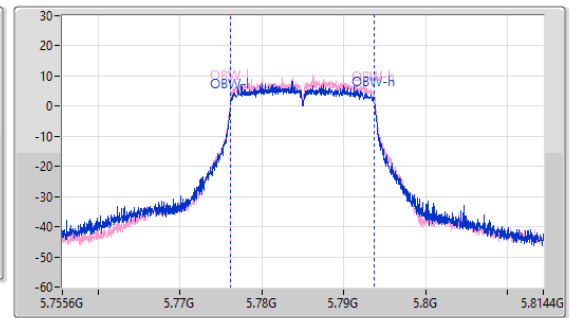
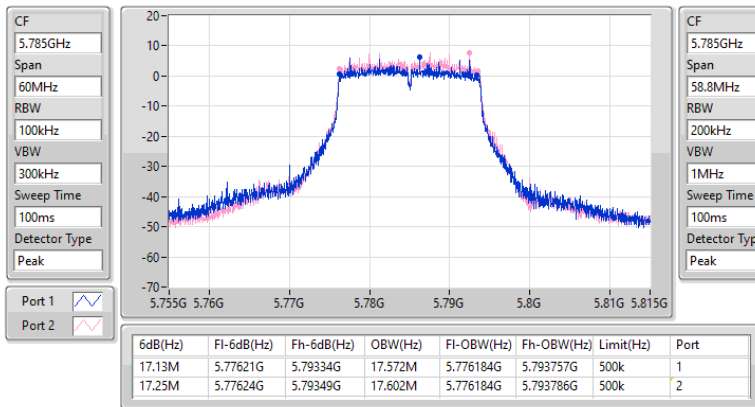


5.725-5.85GHz_802.11n HT20_Nss1,(MCS0)_2TX

EBW

5785MHz

09/10/2022

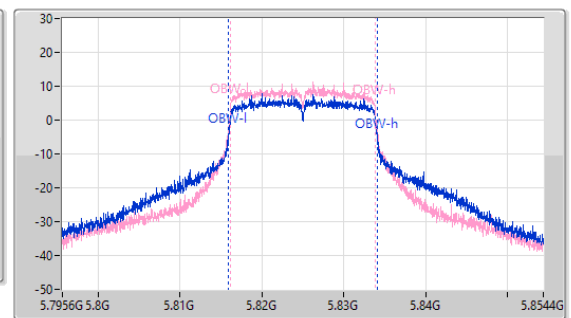
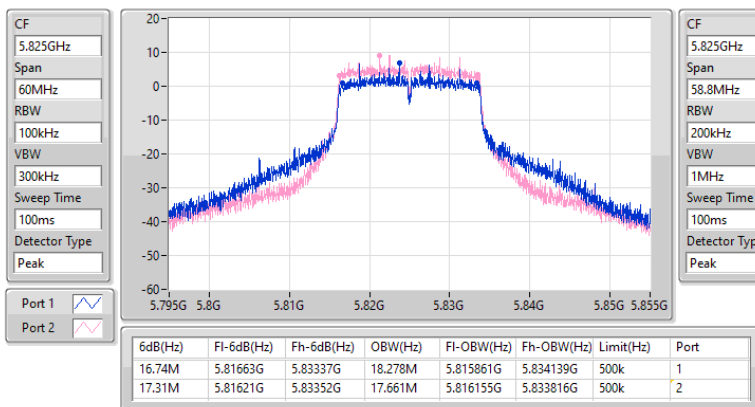


5.725-5.85GHz_802.11n HT20_Nss1,(MCS0)_2TX

EBW

5825MHz

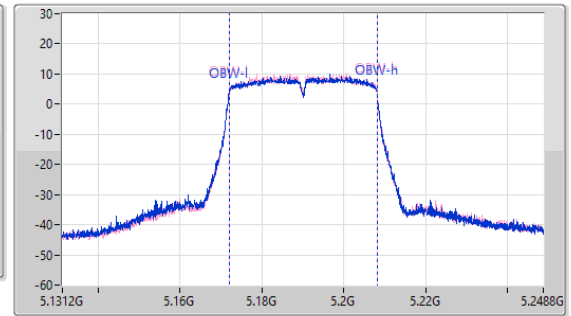
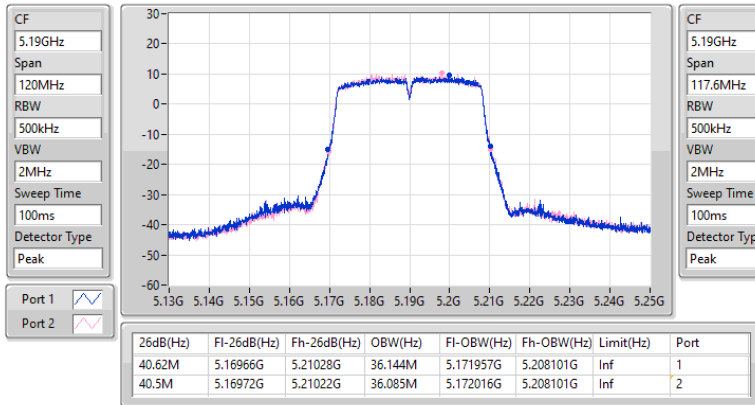
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5.15-5.25GHz_802.11n HT40_Nss1,(MCS0)_2TX 5190MHz

EBW

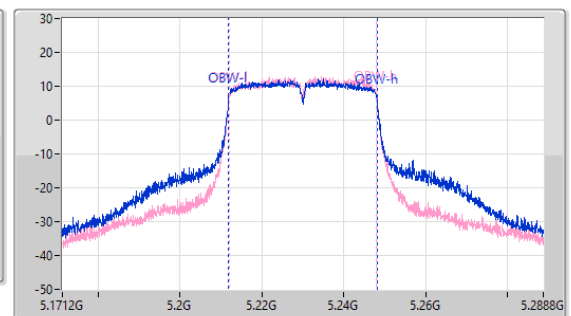
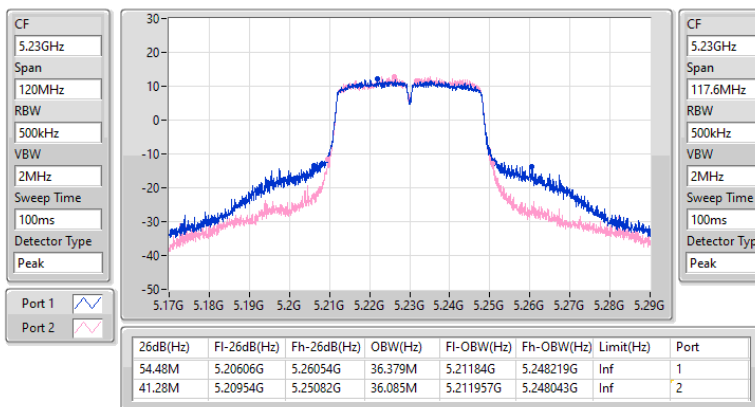
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5.15-5.25GHz_802.11n HT40_Nss1,(MCS0)_2TX 5230MHz

EBW

09/10/2022

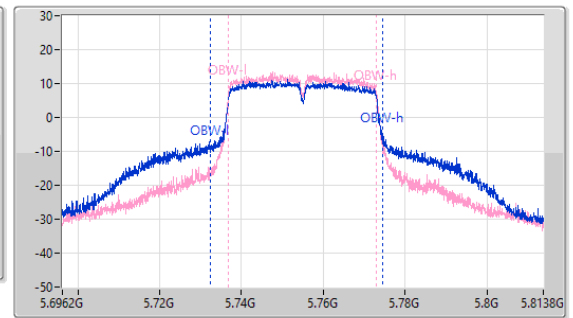
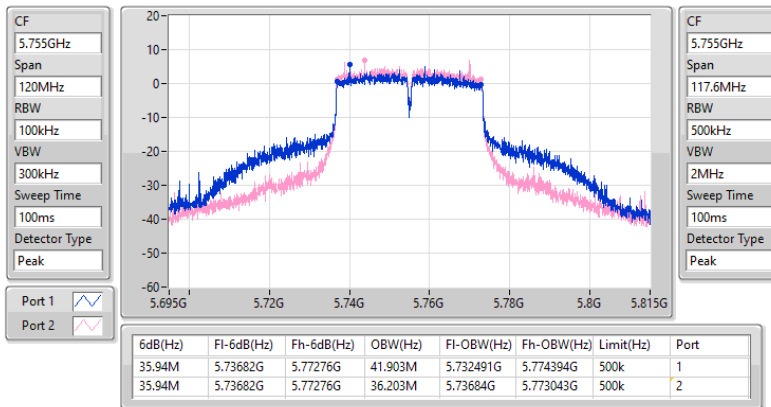


5.725-5.85GHz_802.11n HT40_Nss1,(MCS0)_2TX

EBW

5755MHz

09/10/2022

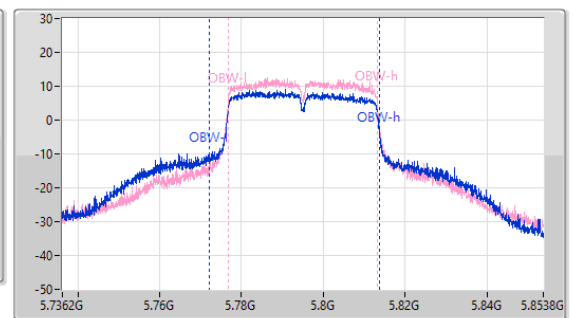
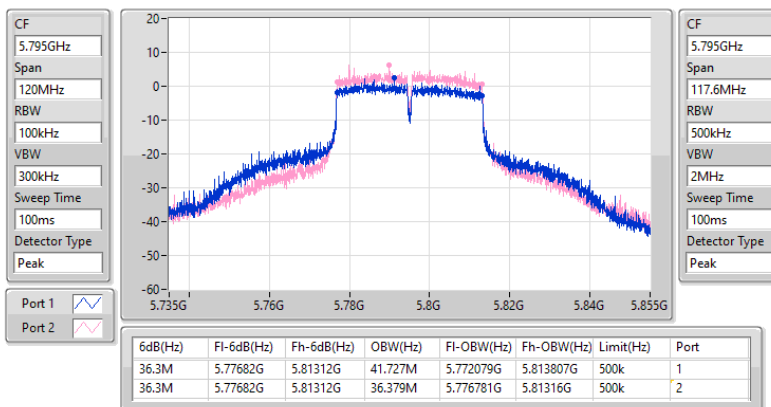


5.725-5.85GHz_802.11n HT40_Nss1,(MCS0)_2TX

EBW

5795MHz

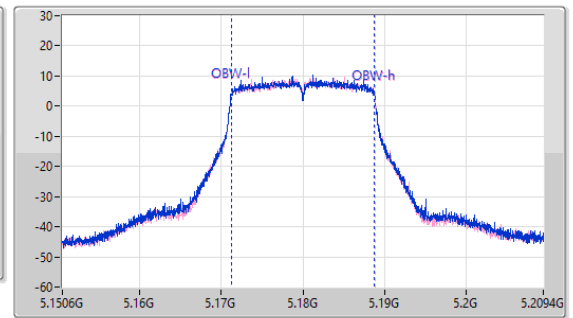
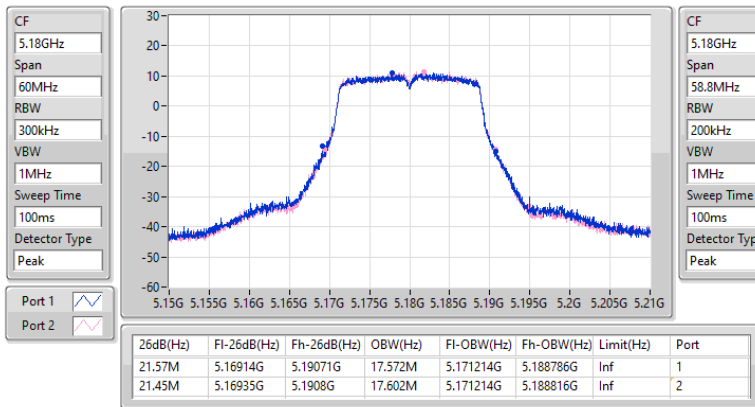
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5.15-5.25GHz_802.11ac VHT20_Nss1,(MCS0)_2TX
5180MHz

EBW

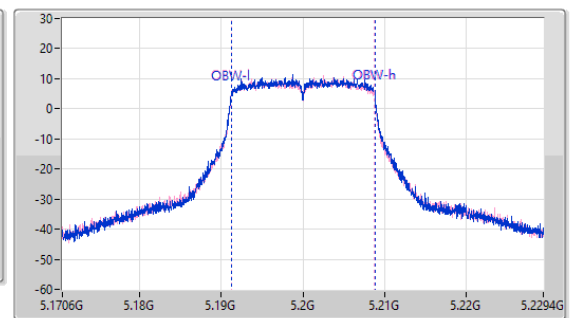
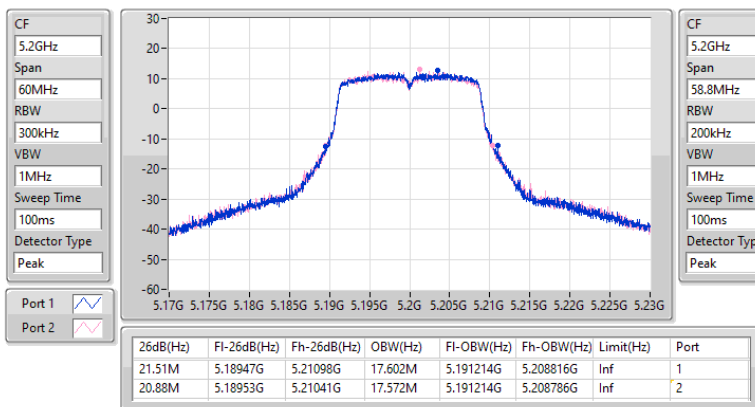
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5.15-5.25GHz_802.11ac VHT20_Nss1,(MCS0)_2TX
5200MHz

EBW

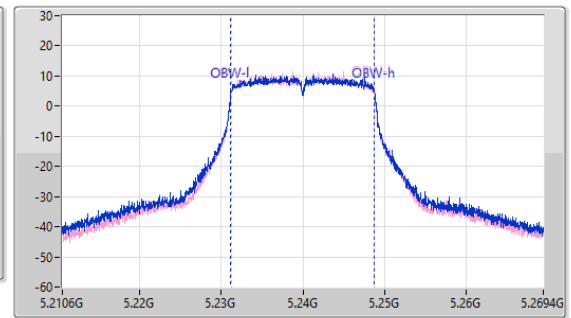
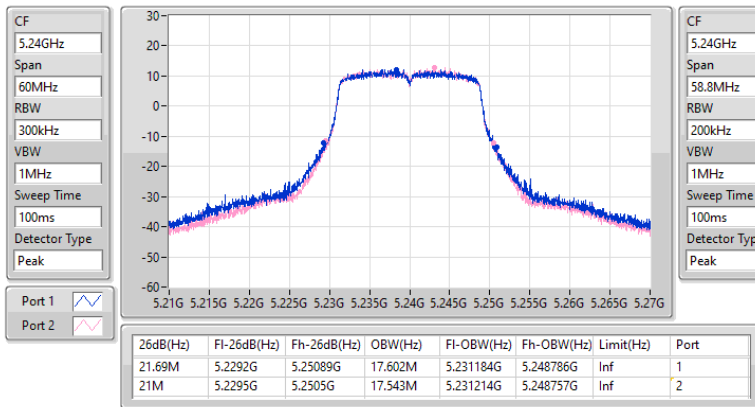
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5.15-5.25GHz_802.11ac VHT20_Nss1,(MCS0)_2TX
5240MHz

EBW

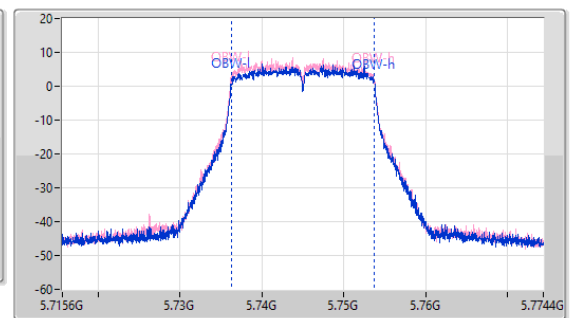
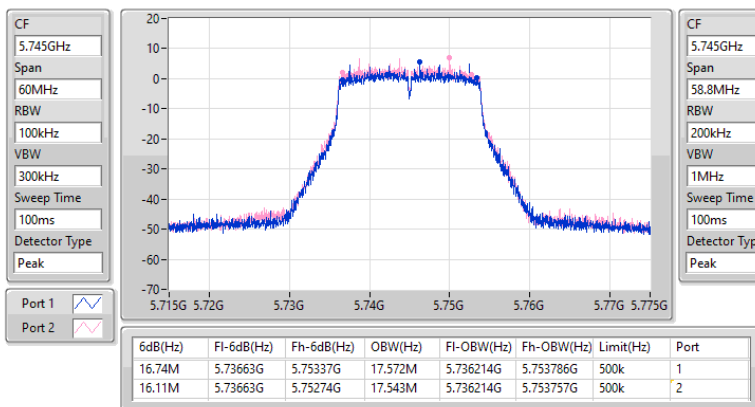
09/10/2022



5.725-5.85GHz_802.11ac VHT20_Nss1,(MCS0)_2TX
5745MHz

EBW

09/10/2022

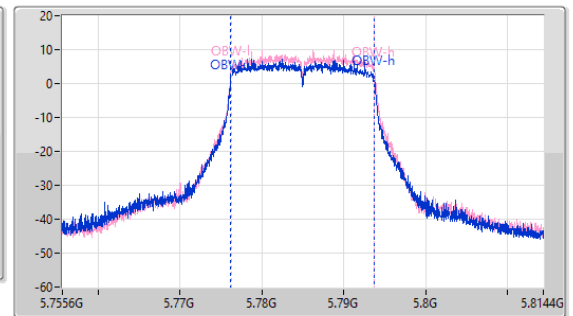
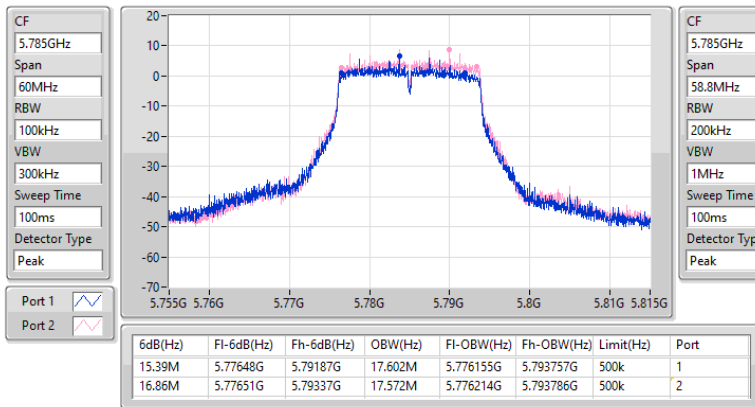


5.725-5.85GHz_802.11ac VHT20_Nss1,(MCS0)_2TX

EBW

5785MHz

09/10/2022

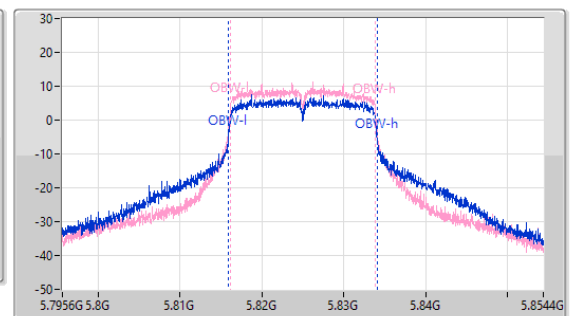
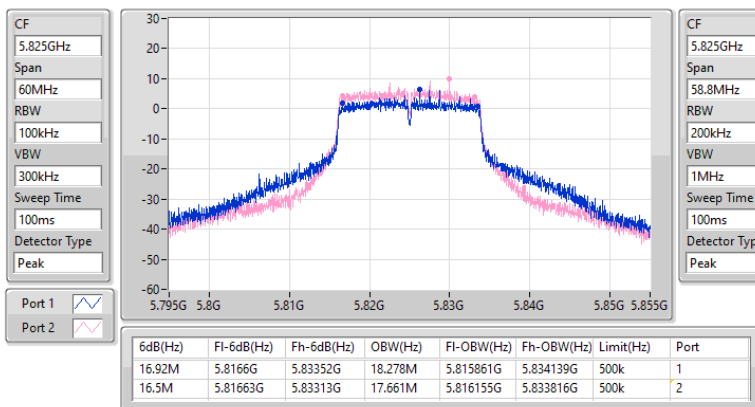


5.725-5.85GHz_802.11ac VHT20_Nss1,(MCS0)_2TX

EBW

5825MHz

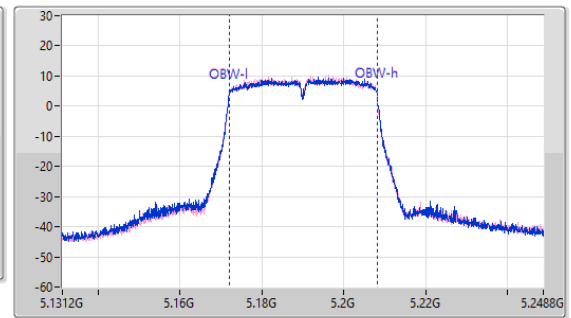
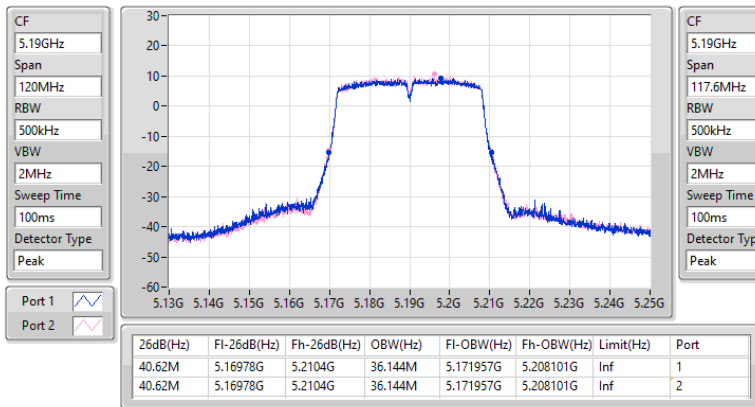
09/10/2022



5.15-5.25GHz_802.11ac VHT40_Nss1,(MCS0)_2TX 5190MHz

EBW

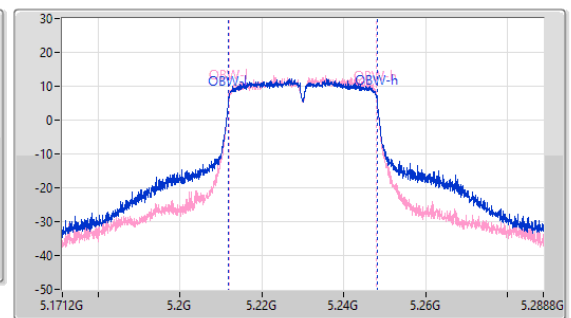
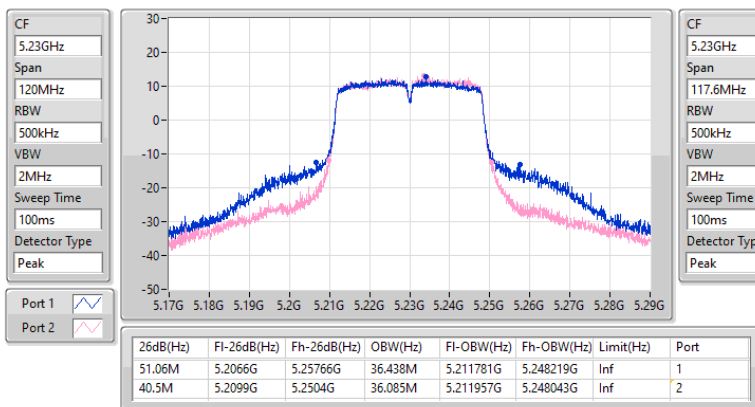
09/10/2022



5.15-5.25GHz_802.11ac VHT40_Nss1,(MCS0)_2TX 5230MHz

EBW

09/10/2022

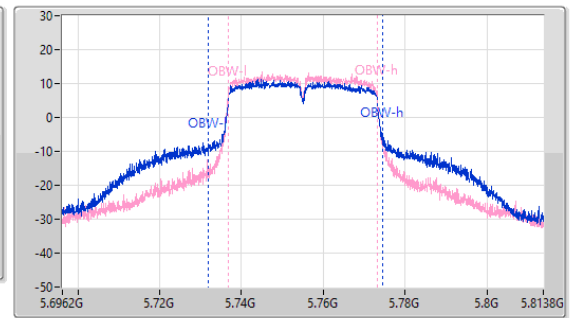
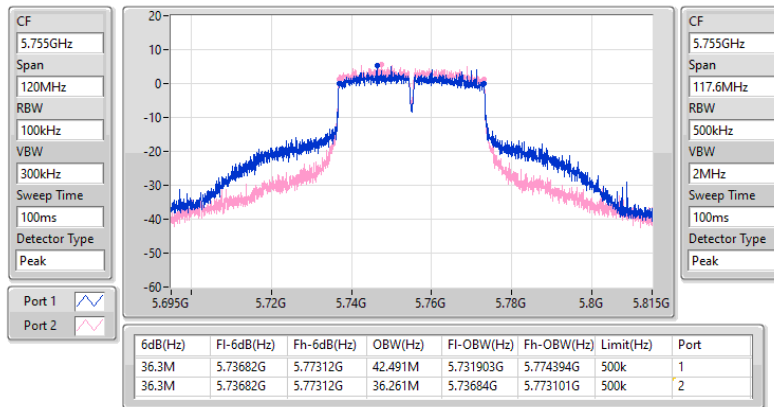


5.725-5.85GHz_802.11ac VHT40_Nss1,(MCS0)_2TX

EBW

5755MHz

09/10/2022

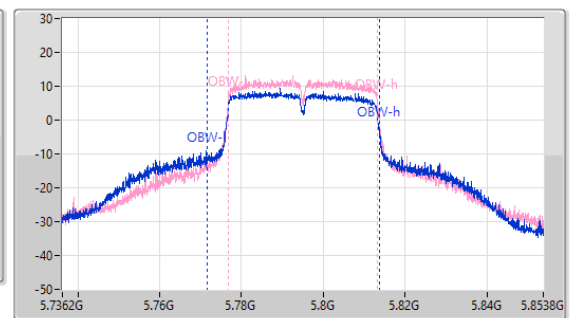
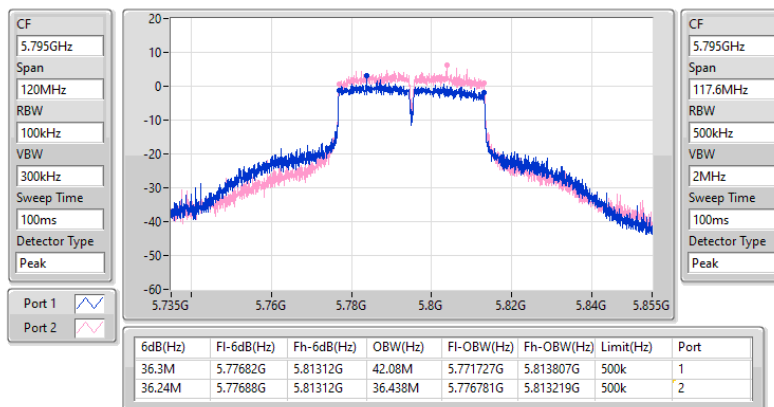


5.725-5.85GHz_802.11ac VHT40_Nss1,(MCS0)_2TX

EBW

5795MHz

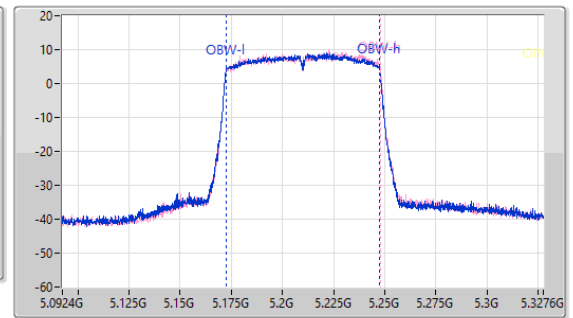
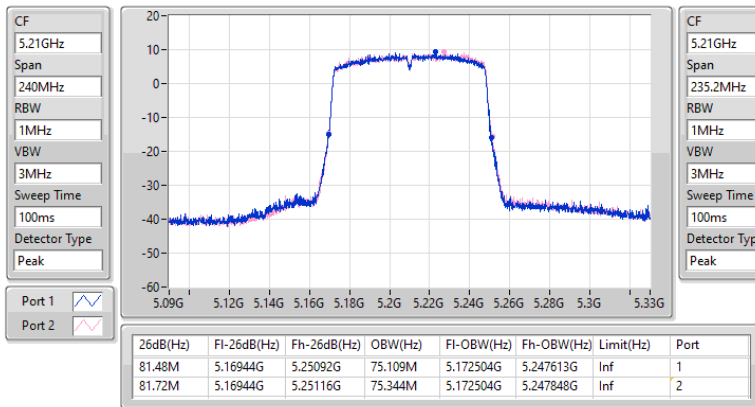
09/10/2022



5.15-5.25GHz_802.11ac VHT80_Nss1,(MCS0)_2TX
5210MHz

EBW

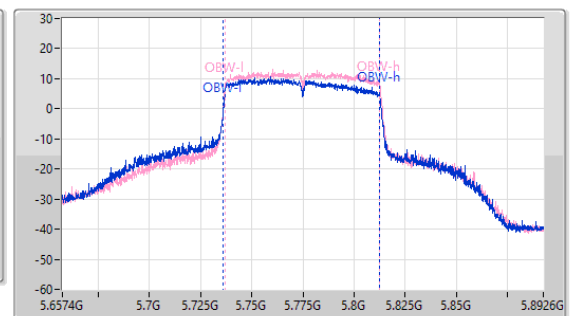
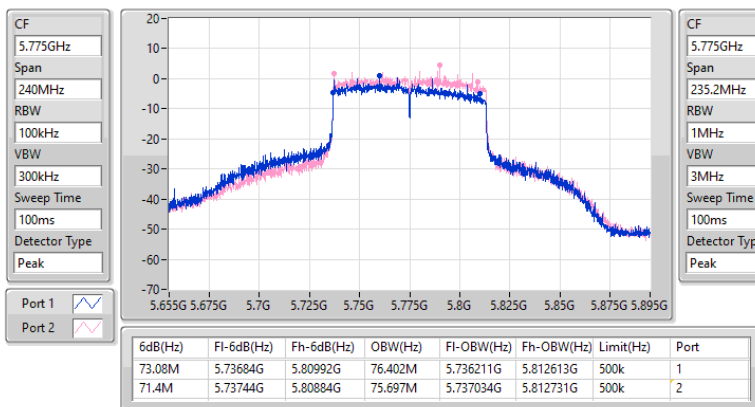
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5775MHz

EBW

09/10/2022

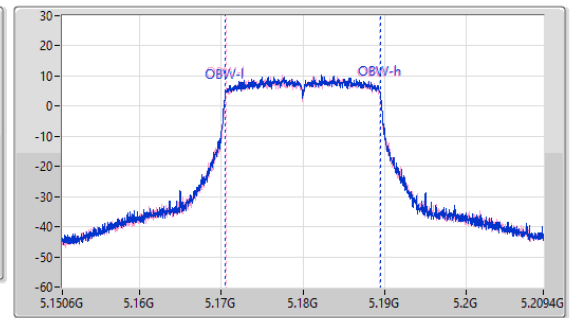
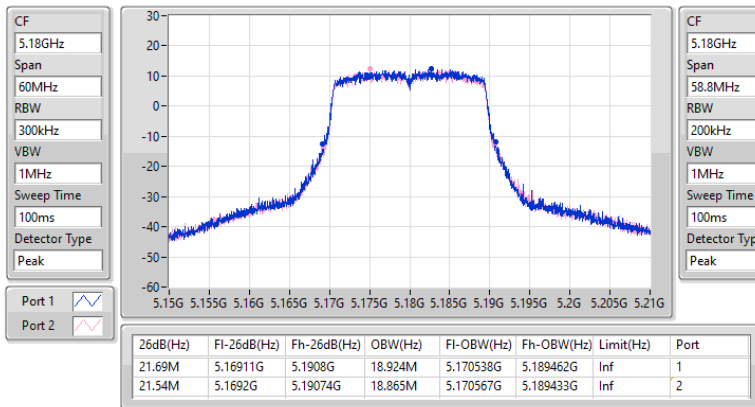


5.15-5.25GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

EBW

5180MHz

09/10/2022

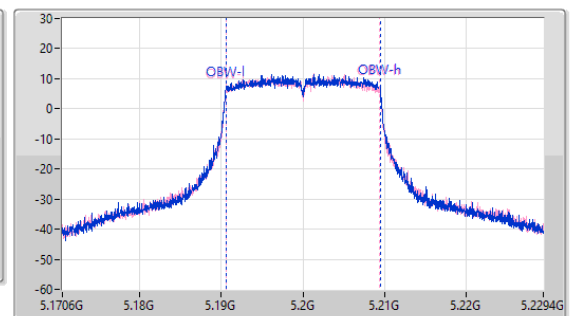
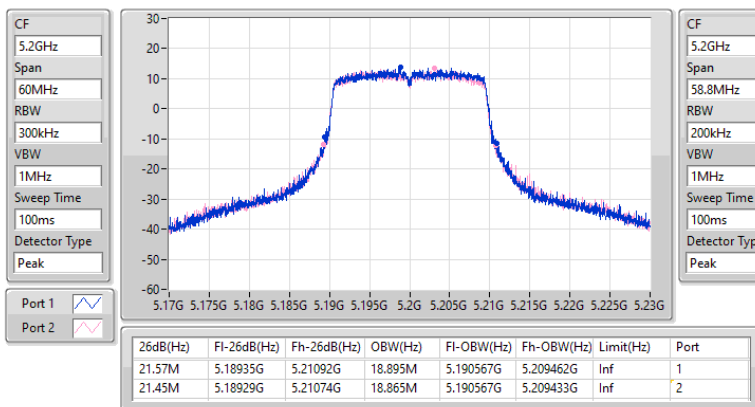


5.15-5.25GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

EBW

5200MHz

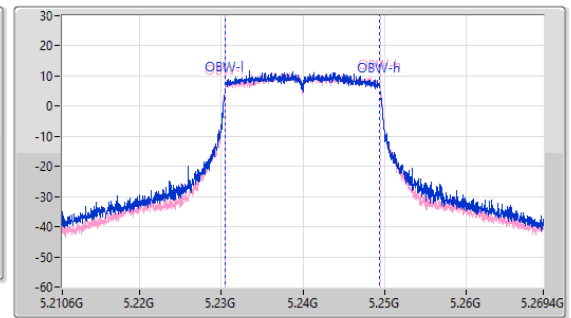
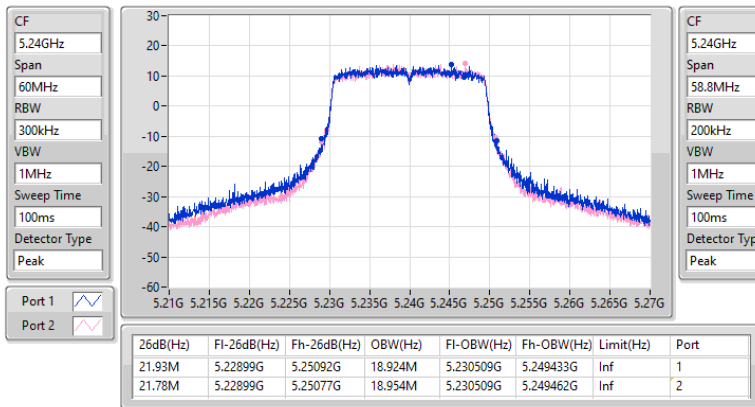
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5.15-5.25GHz_802.11ax HEW20_Nss1,(MCS0)_2TX
5240MHz

EBW

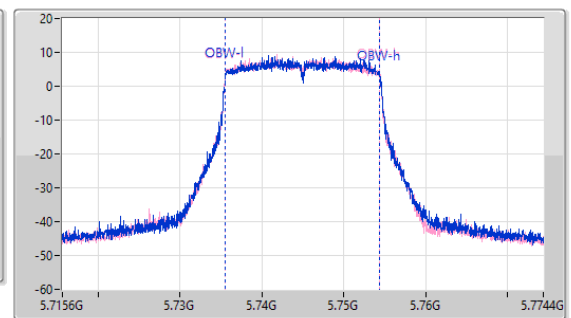
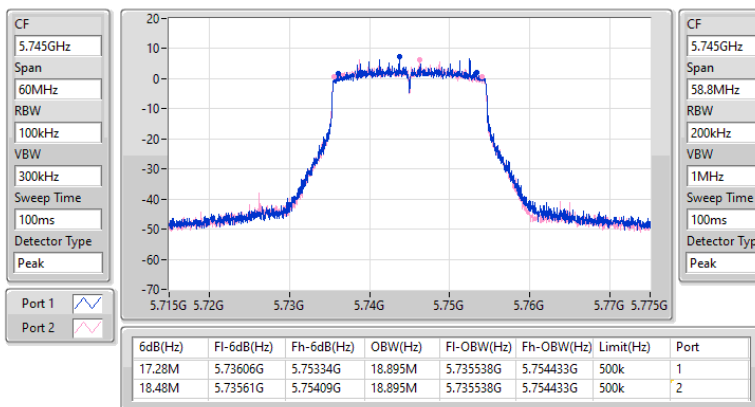
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5.725-5.85GHz_802.11ax HEW20_Nss1,(MCS0)_2TX
5745MHz

EBW

09/10/2022

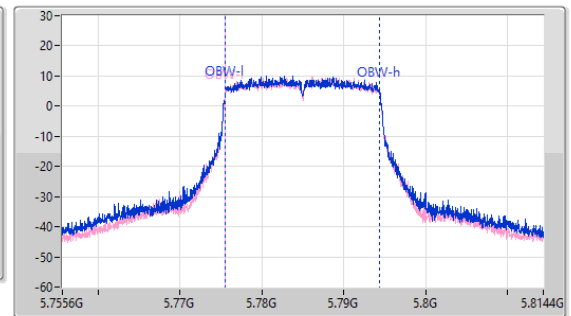
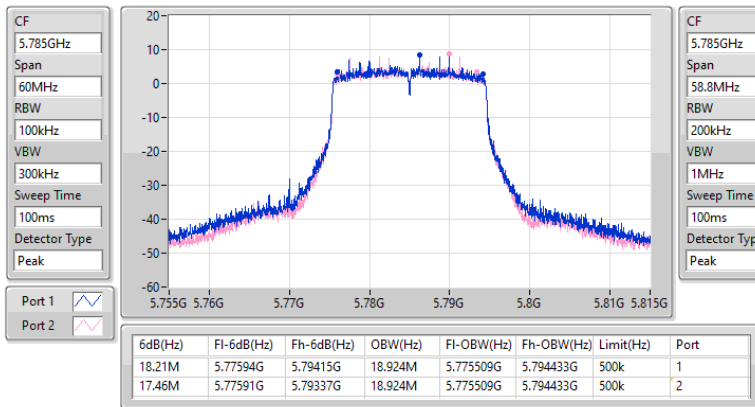


5.725-5.85GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

EBW

5785MHz

09/10/2022

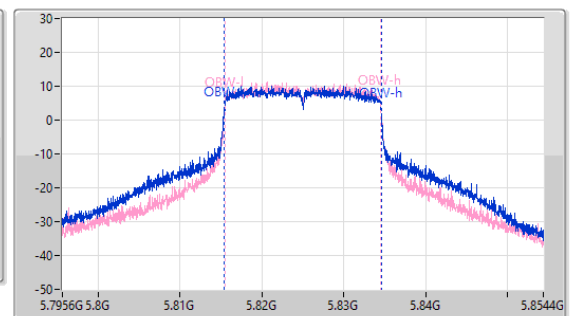
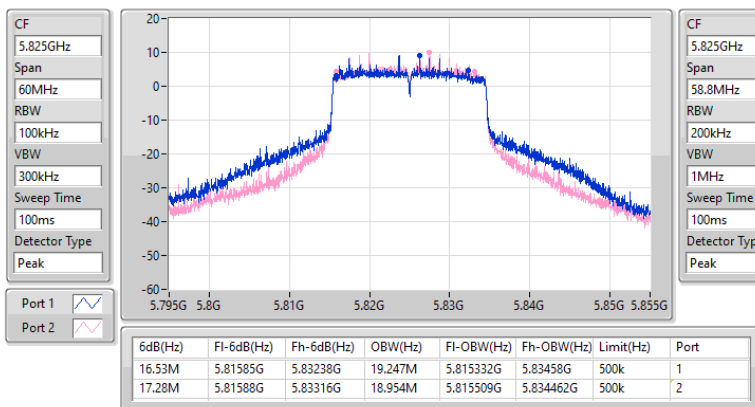


5.725-5.85GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

EBW

5825MHz

09/10/2022

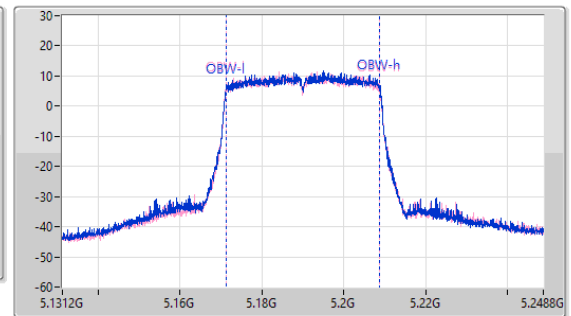
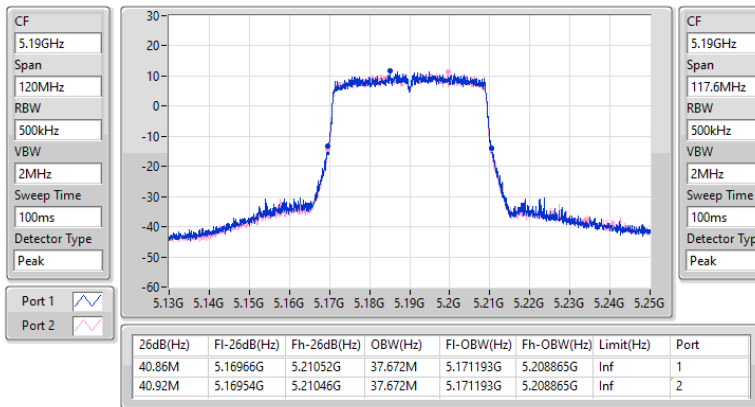


5.15-5.25GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

EBW

5190MHz

09/10/2022

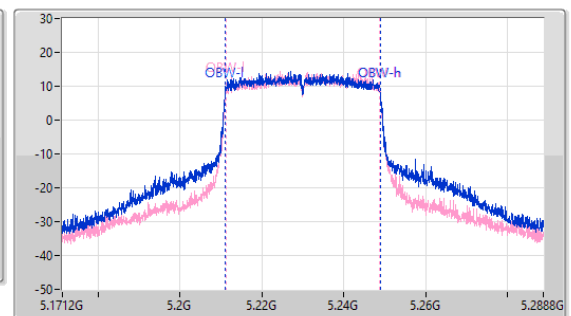
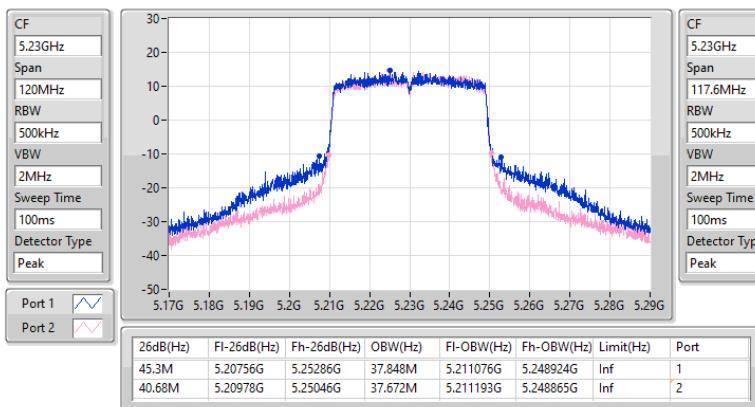


5.15-5.25GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

EBW

5230MHz

09/10/2022

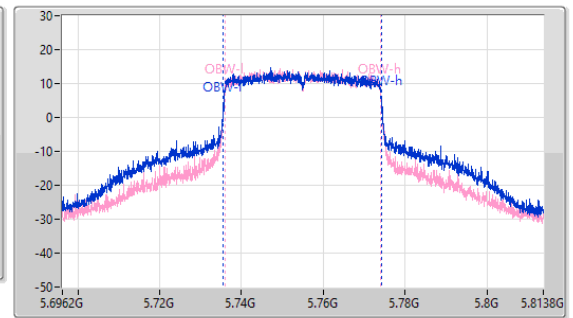
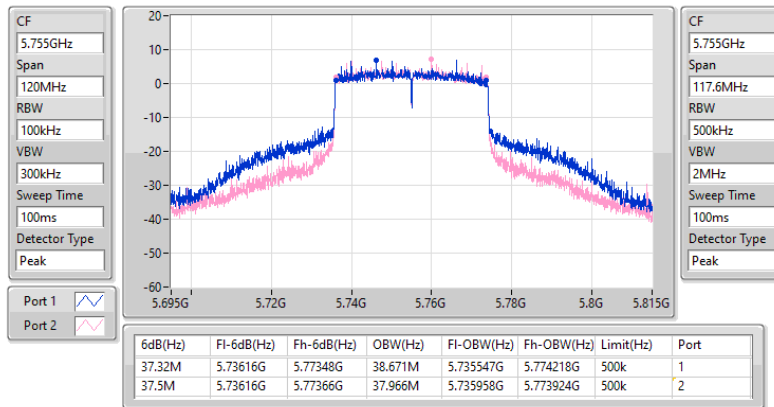


5.725-5.85GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

EBW

5755MHz

09/10/2022

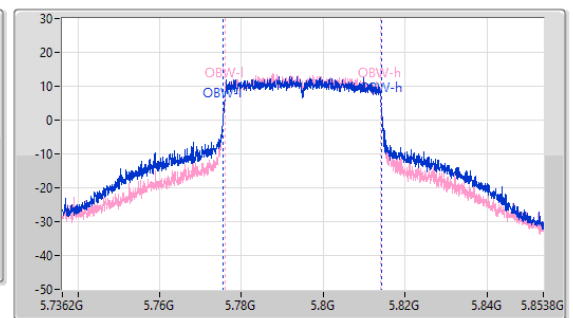
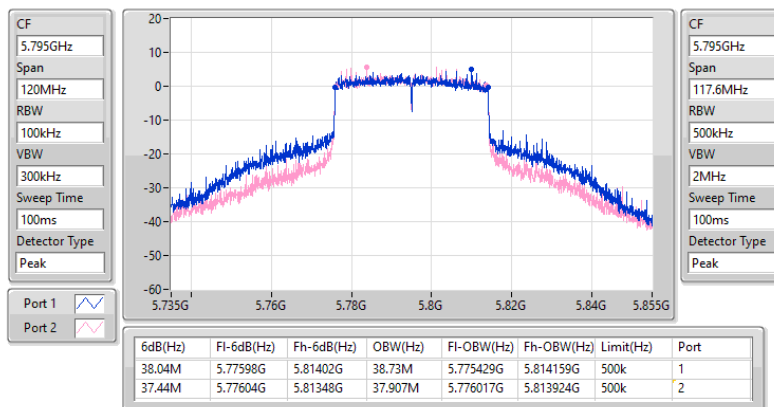


5.725-5.85GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

EBW

5795MHz

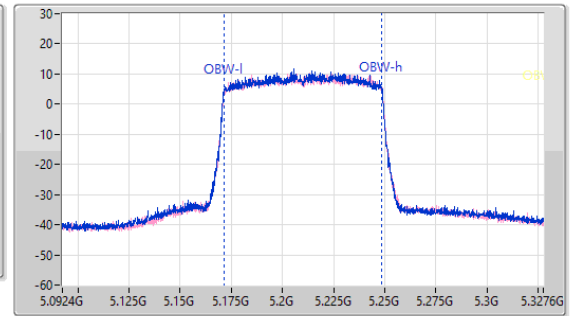
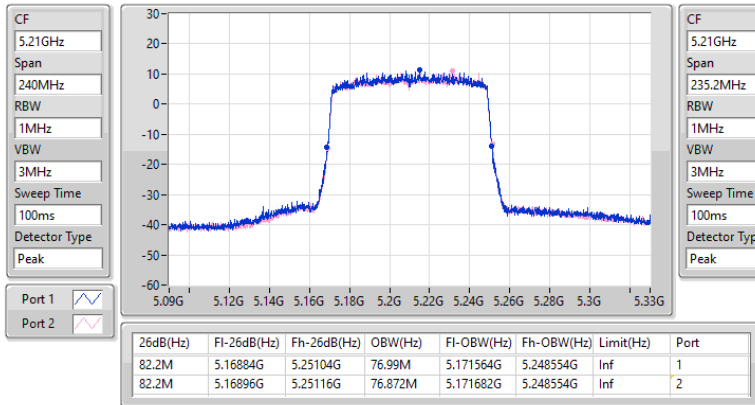
09/10/2022



5.15-5.25GHz_802.11ax HEW80_Nss1,(MCS0)_2TX
5210MHz

EBW

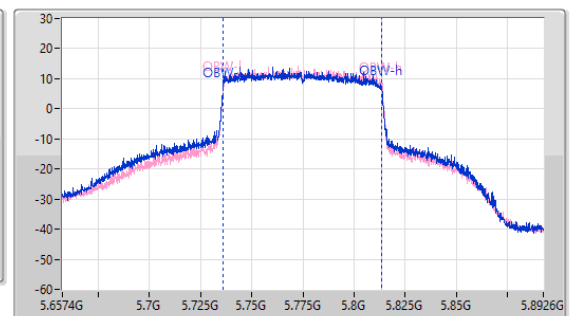
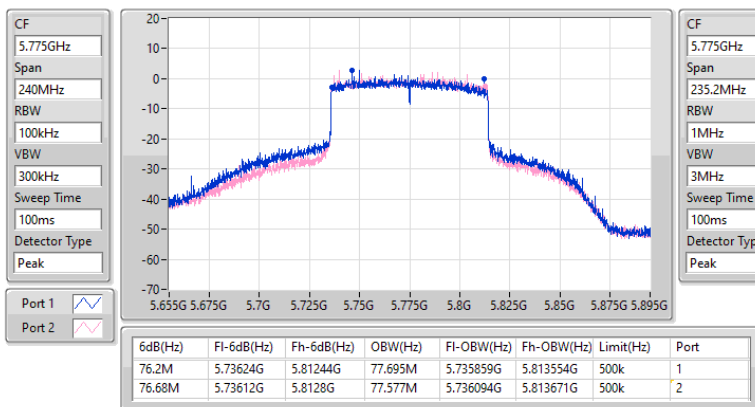
09/10/2022



5.725-5.85GHz_802.11ax HEW80_Nss1,(MCS0)_2TX
5775MHz

EBW

09/10/2022





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	20.64M	16.388M	16M4D1D	20.16M	16.337M
802.11n HT20_Nss1,(MCS0)_2TX	22.71M	17.661M	17M7D1D	21.24M	17.572M
802.11n HT40_Nss1,(MCS0)_2TX	41.58M	36.144M	36M1D1D	40.26M	36.085M
802.11ac VHT20_Nss1,(MCS0)_2TX	22.53M	17.661M	17M7D1D	21.03M	17.543M
802.11ac VHT40_Nss1,(MCS0)_2TX	41.52M	36.144M	36M1D1D	40.26M	36.026M
802.11ac VHT80_Nss1,(MCS0)_2TX	82.56M	75.344M	75M3D1D	82.44M	75.344M
802.11ax HEW20_Nss1,(MCS0)_2TX	24.15M	18.954M	19M0D1D	21.3M	18.865M
802.11ax HEW40_Nss1,(MCS0)_2TX	41.46M	37.79M	37M8D1D	40.68M	37.554M
802.11ax HEW80_Nss1,(MCS0)_2TX	82.92M	77.342M	77M3D1D	82.44M	77.225M
5.725-5.85GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	16.35M	20.849M	20M8D1D	16.32M	16.796M
802.11n HT20_Nss1,(MCS0)_2TX	17.61M	18.483M	18M5D1D	17.55M	18.013M
802.11n HT40_Nss1,(MCS0)_2TX	36.3M	47.31M	47M3D1D	34.5M	40.61M
802.11ac VHT20_Nss1,(MCS0)_2TX	17.61M	18.542M	18M5D1D	17.55M	17.984M
802.11ac VHT40_Nss1,(MCS0)_2TX	36.3M	47.898M	47M9D1D	35.04M	40.904M
802.11ac VHT80_Nss1,(MCS0)_2TX	73.2M	76.402M	76M4D1D	72.48M	76.402M
802.11ax HEW20_Nss1,(MCS0)_2TX	19.08M	21.921M	21M9D1D	18.99M	19.365M
802.11ax HEW40_Nss1,(MCS0)_2TX	37.62M	43.314M	43M3D1D	35.52M	39.846M
802.11ax HEW80_Nss1,(MCS0)_2TX	76.44M	78.282M	78M3D1D	75.6M	78.047M

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	20.55M	16.363M	20.34M	16.363M
5200MHz	Pass	Inf	20.16M	16.388M	20.22M	16.388M
5240MHz	Pass	Inf	20.58M	16.388M	20.64M	16.337M
5745MHz	Pass	500k	16.32M	17.153M	16.32M	16.796M
5785MHz	Pass	500k	16.32M	16.924M	16.35M	17.459M
5825MHz	Pass	500k	16.32M	19.906M	16.32M	20.849M
802.11n HT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5180MHz	Pass	Inf	22.71M	17.661M	21.48M	17.572M
5200MHz	Pass	Inf	21.24M	17.602M	21.54M	17.602M
5240MHz	Pass	Inf	21.36M	17.602M	21.42M	17.602M
5745MHz	Pass	500k	17.61M	18.013M	17.58M	18.043M
5785MHz	Pass	500k	17.55M	18.013M	17.58M	18.072M
5825MHz	Pass	500k	17.61M	18.483M	17.61M	18.483M
802.11n HT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5190MHz	Pass	Inf	41.1M	36.085M	40.26M	36.085M
5230MHz	Pass	Inf	41.58M	36.144M	40.8M	36.085M
5755MHz	Pass	500k	34.5M	40.61M	35.4M	44.372M
5795MHz	Pass	500k	36.3M	41.316M	36.06M	47.31M
802.11ac VHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5180MHz	Pass	Inf	22.53M	17.661M	21.45M	17.572M
5200MHz	Pass	Inf	21.51M	17.602M	21.15M	17.543M
5240MHz	Pass	Inf	21.03M	17.602M	21.27M	17.602M
5745MHz	Pass	500k	17.58M	18.013M	17.55M	18.043M
5785MHz	Pass	500k	17.61M	17.984M	17.58M	18.072M
5825MHz	Pass	500k	17.61M	18.542M	17.58M	18.395M
802.11ac VHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5190MHz	Pass	Inf	40.5M	36.085M	40.26M	36.026M
5230MHz	Pass	Inf	41.52M	36.144M	40.44M	36.144M
5755MHz	Pass	500k	35.04M	40.904M	36.06M	44.901M
5795MHz	Pass	500k	35.64M	41.433M	36.3M	47.898M
802.11ac VHT80_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5210MHz	Pass	Inf	82.56M	75.344M	82.44M	75.344M
5775MHz	Pass	500k	73.2M	76.402M	72.48M	76.402M
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5180MHz	Pass	Inf	24.15M	18.954M	21.3M	18.865M
5200MHz	Pass	Inf	21.81M	18.924M	21.66M	18.865M
5240MHz	Pass	Inf	21.54M	18.924M	21.48M	18.865M
5745MHz	Pass	500k	19.02M	19.365M	18.99M	19.394M
5785MHz	Pass	500k	18.99M	19.394M	19.05M	19.394M
5825MHz	Pass	500k	18.99M	21.921M	19.08M	19.864M
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5190MHz	Pass	Inf	40.68M	37.672M	41.46M	37.554M
5230MHz	Pass	Inf	41.16M	37.731M	41.34M	37.79M
5755MHz	Pass	500k	36.3M	39.964M	35.52M	41.668M
5795MHz	Pass	500k	37.38M	39.846M	37.62M	43.314M
802.11ax HEW80_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5210MHz	Pass	Inf	82.44M	77.225M	82.92M	77.342M
5775MHz	Pass	500k	76.44M	78.047M	75.6M	78.282M

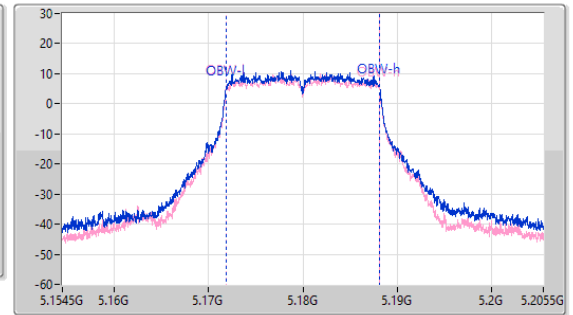
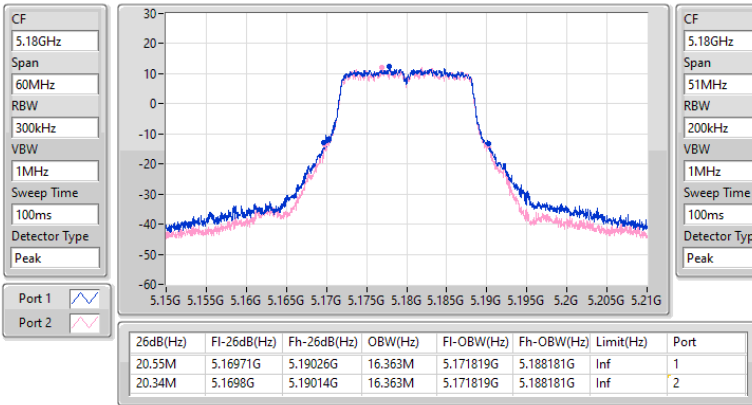
Port X-N dB = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band
Port X-OBW = Port X 99% occupied bandwidth

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

EBW

5180MHz

11/10/2022

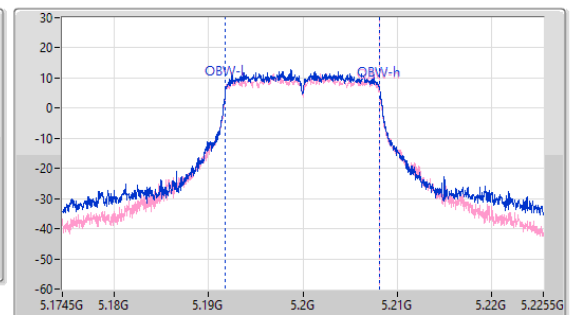
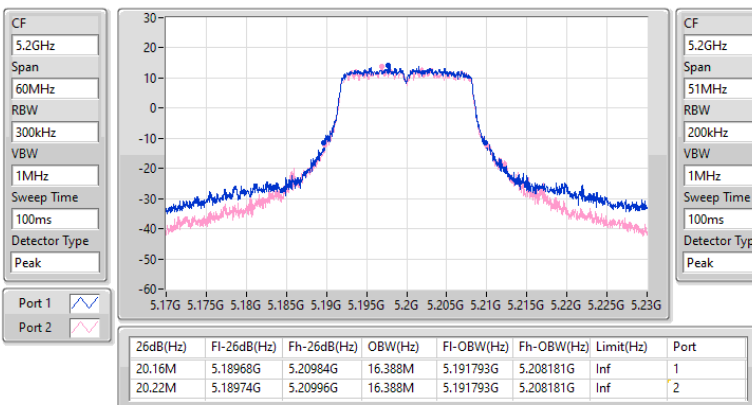


5.15-5.25GHz_802.11a_Nss1,(6Mbps)_2TX

EBW

5200MHz

19/10/2022

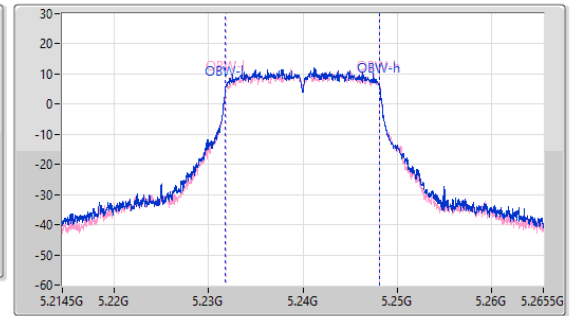
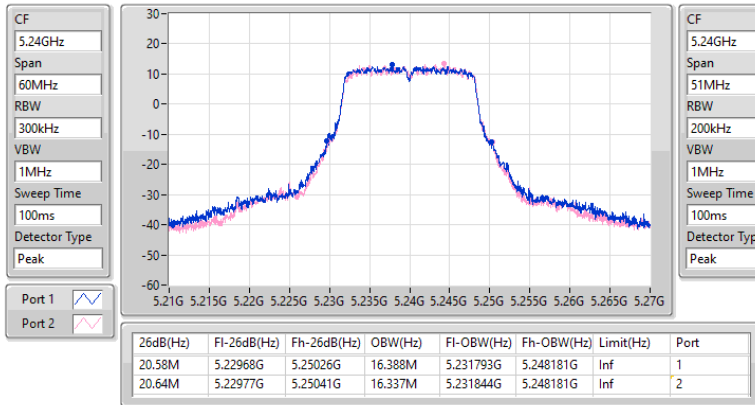


5.15-5.25GHz_802.11a_Nss1,(6Mbps)_2TX

EBW

5240MHz

10/10/2022

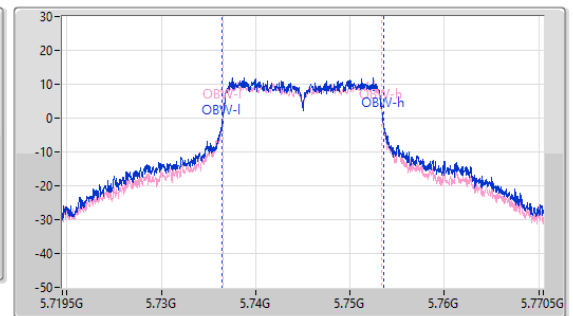
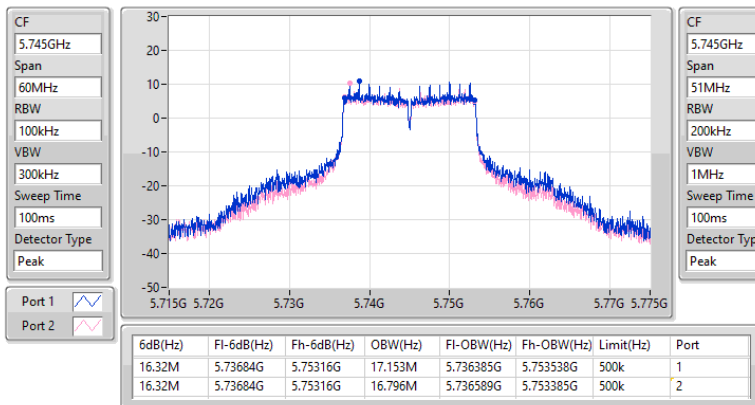


5.725-5.85GHz_802.11a_Nss1,(6Mbps)_2TX

EBW

5745MHz

10/10/2022

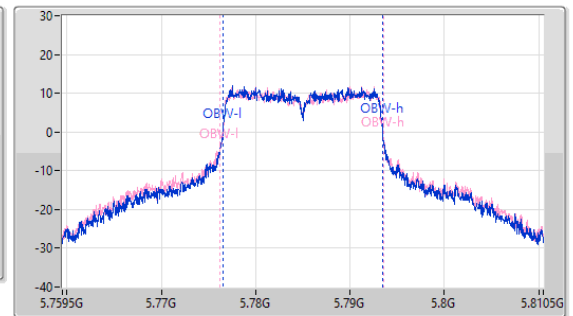
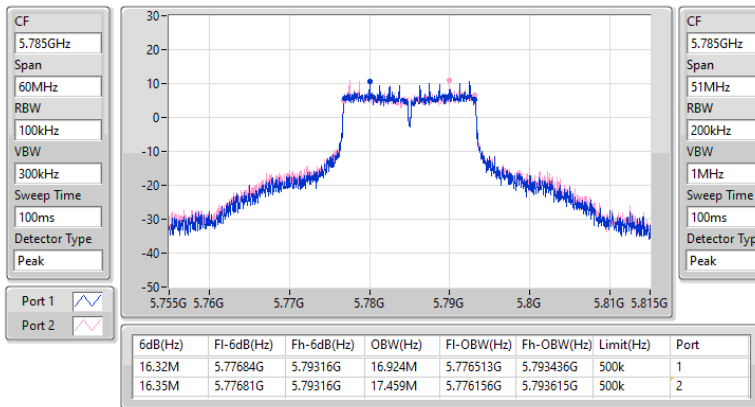


5.725-5.85GHz_802.11a_Nss1,(6Mbps)_2TX

EBW

5785MHz

10/10/2022

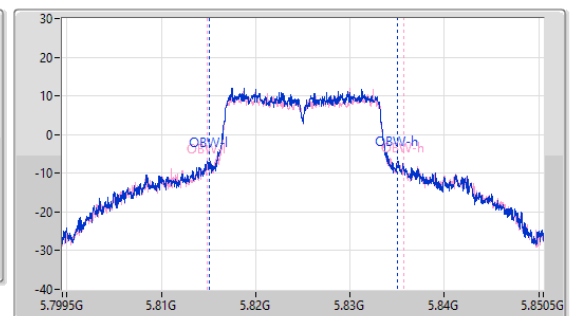
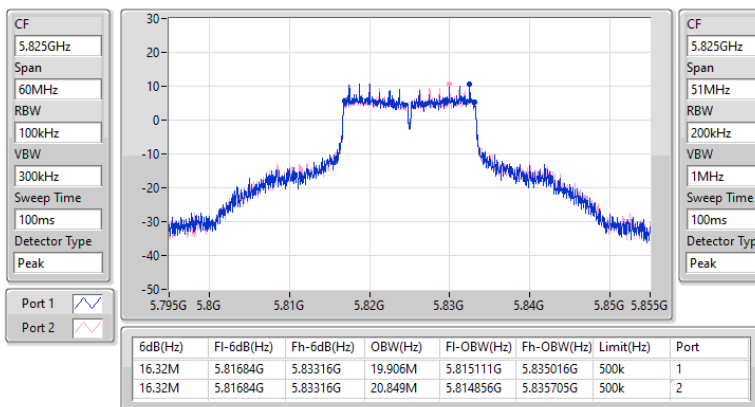


5.725-5.85GHz_802.11a_Nss1,(6Mbps)_2TX

EBW

5825MHz

10/10/2022

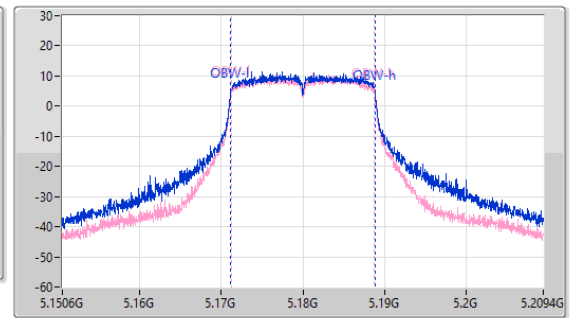
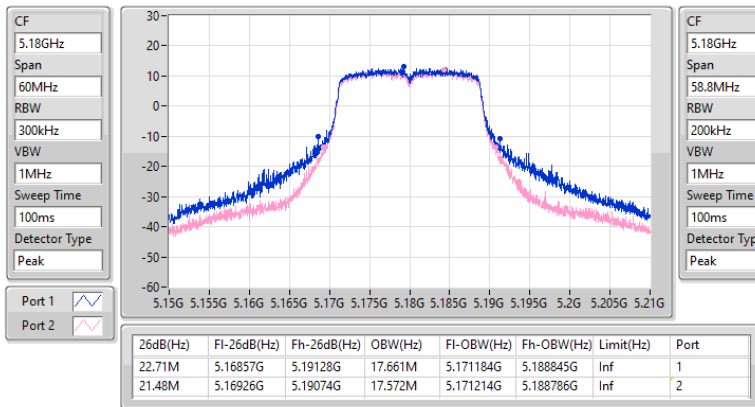


5.15-5.25GHz_802.11n HT20_Nss1,(MCS0)_2TX

EBW

5180MHz

10/10/2022

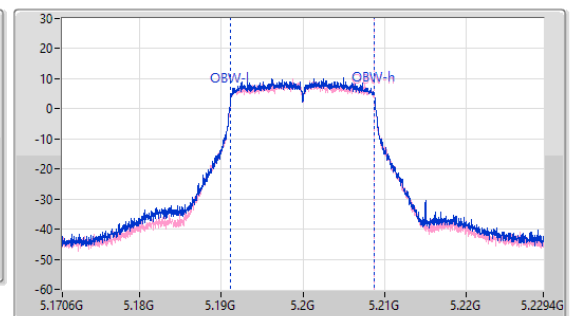
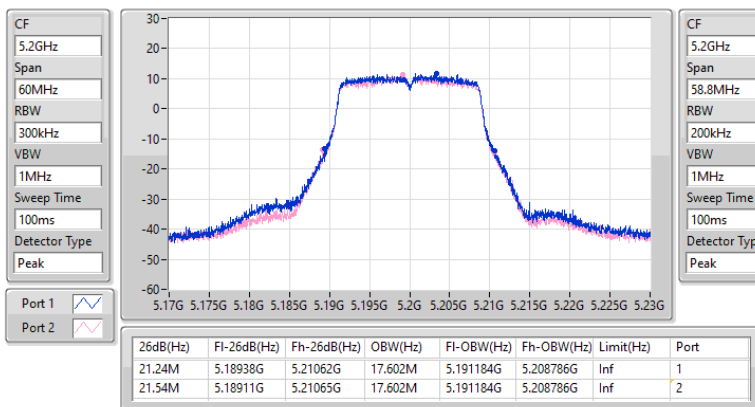


5.15-5.25GHz_802.11n HT20_Nss1,(MCS0)_2TX

EBW

5200MHz

10/10/2022

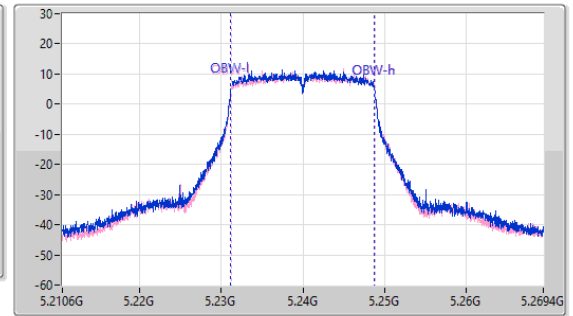
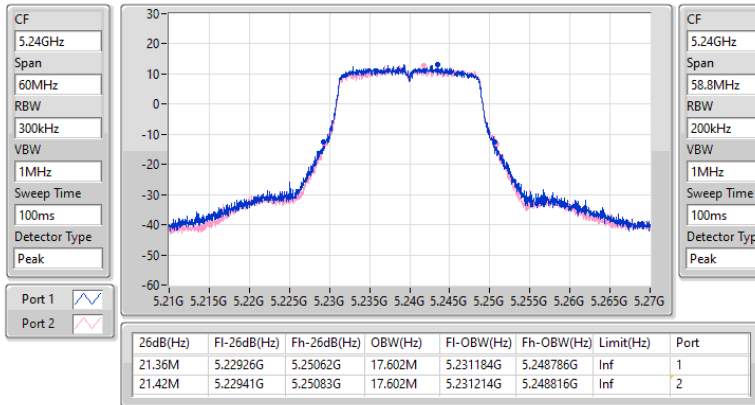


5.15-5.25GHz_802.11n HT20_Nss1,(MCS0)_2TX

5240MHz

EBW

10/10/2022

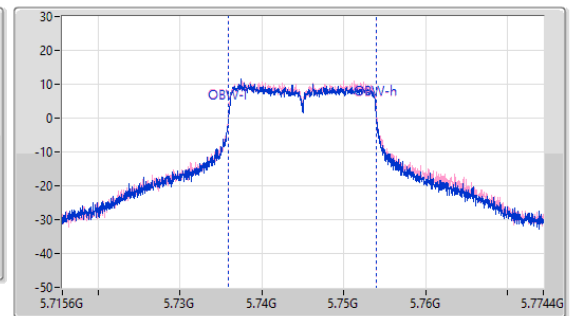
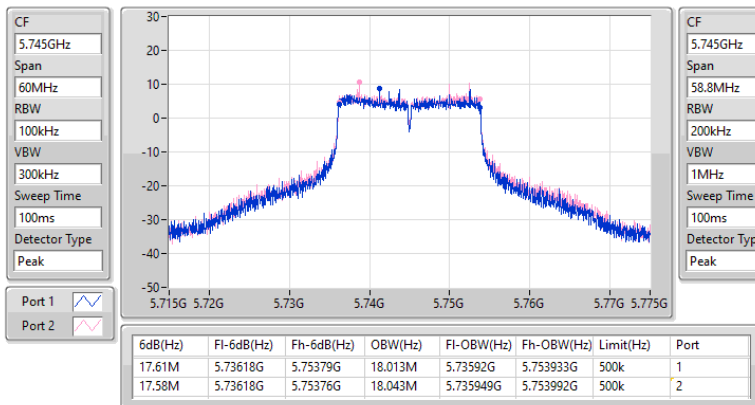


5.725-5.85GHz_802.11n HT20_Nss1,(MCS0)_2TX

5745MHz

EBW

11/10/2022

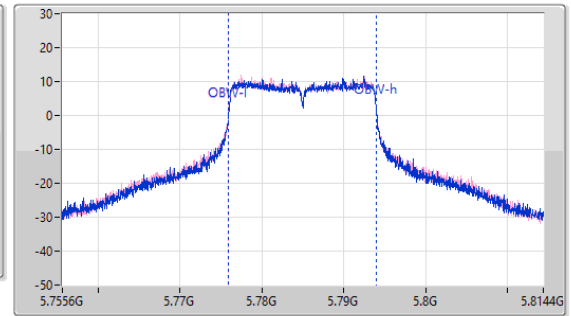
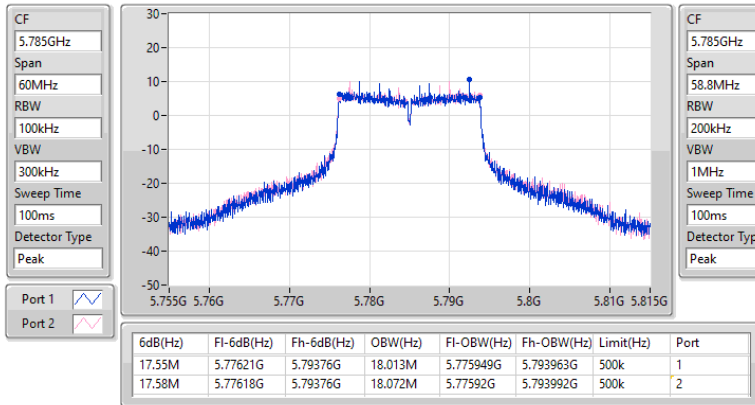


5.725-5.85GHz_802.11n HT20_Nss1,(MCS0)_2TX

EBW

5785MHz

11/10/2022

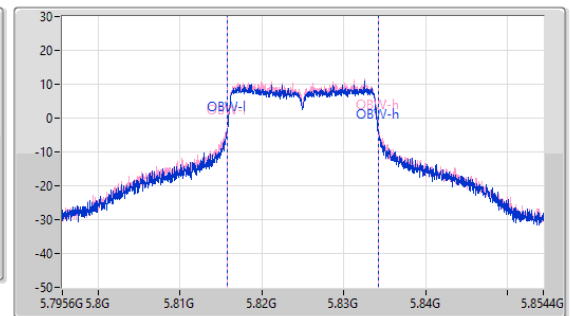
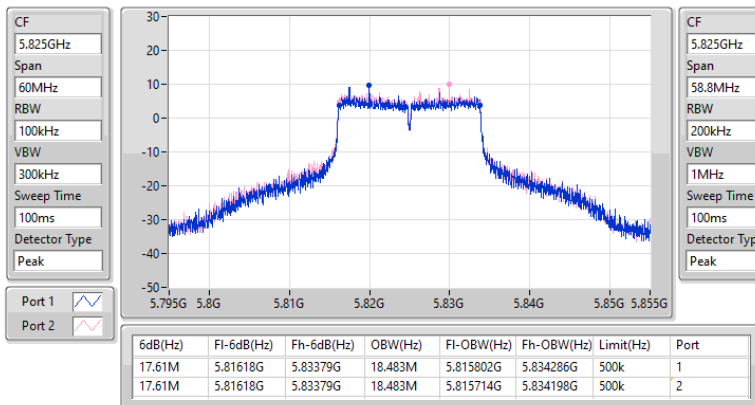


5.725-5.85GHz_802.11n HT20_Nss1,(MCS0)_2TX

EBW

5825MHz

11/10/2022

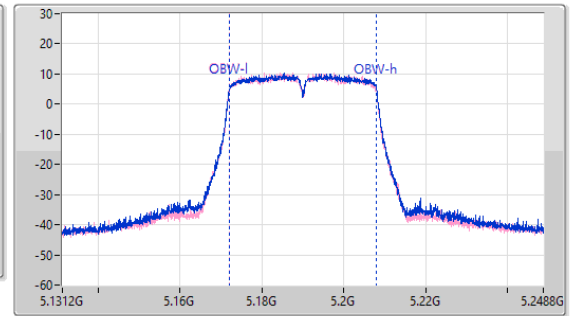
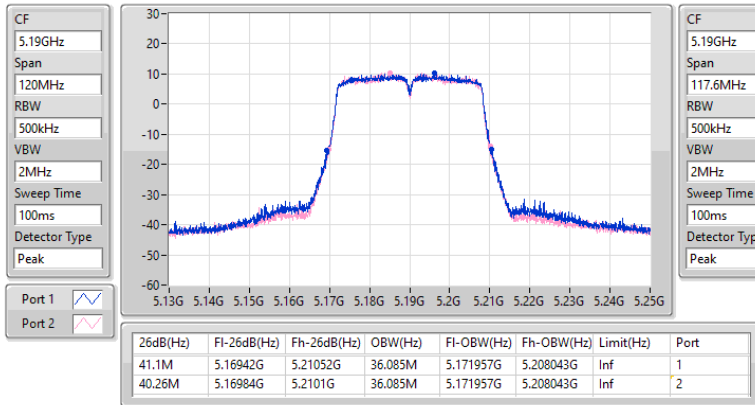


5.15-5.25GHz_802.11n HT40_Nss1,(MCS0)_2TX

EBW

5190MHz

10/10/2022

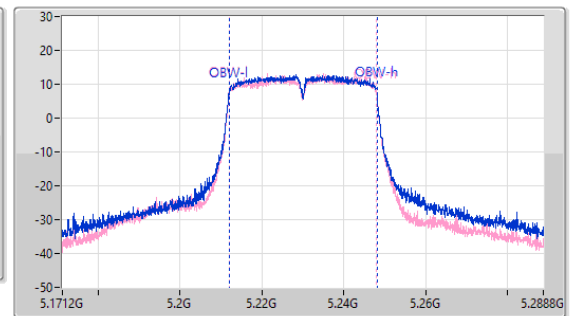
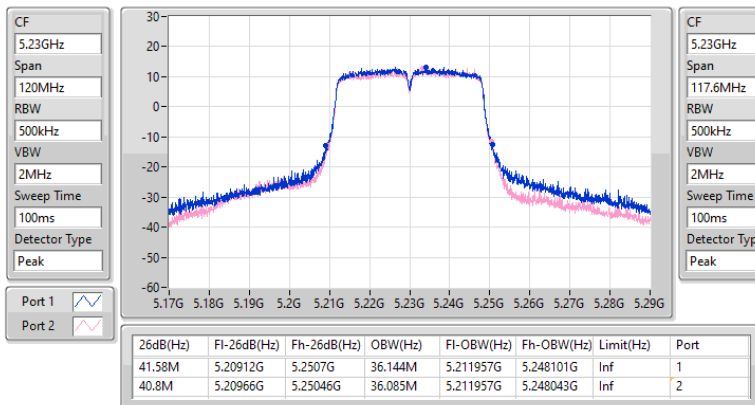


5.15-5.25GHz_802.11n HT40_Nss1,(MCS0)_2TX

EBW

5230MHz

10/10/2022

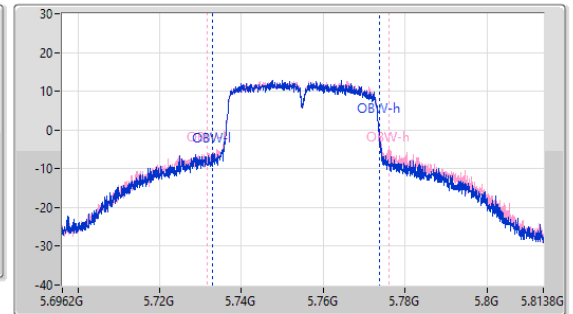
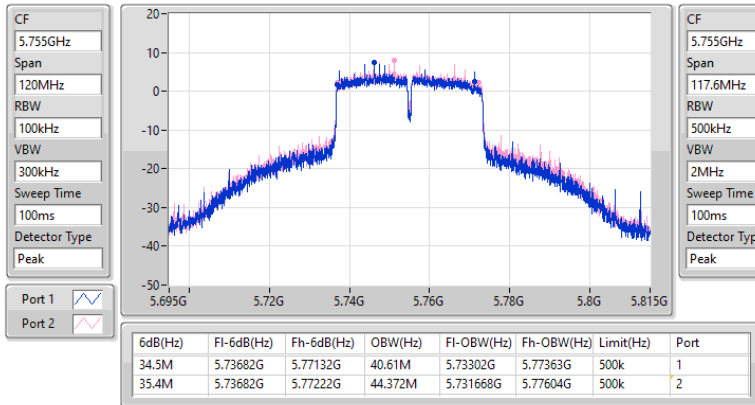


5.725-5.85GHz_802.11n HT40_Nss1,(MCS0)_2TX

EBW

5755MHz

11/10/2022

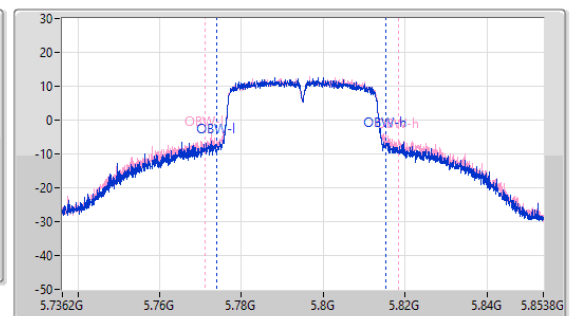
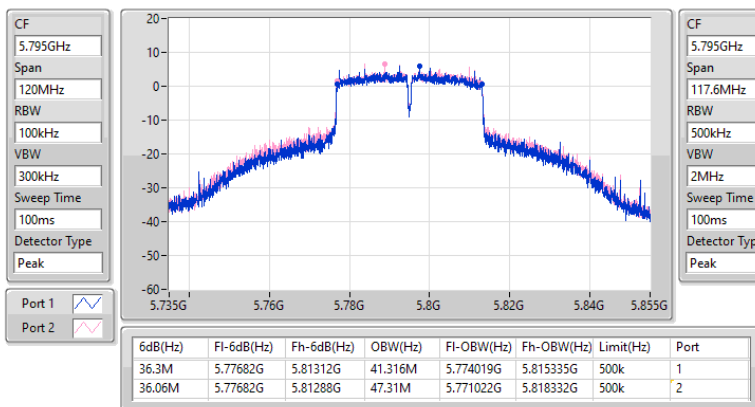


5.725-5.85GHz_802.11n HT40_Nss1,(MCS0)_2TX

EBW

5795MHz

11/10/2022

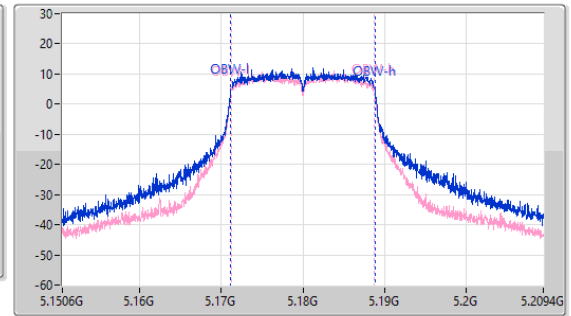
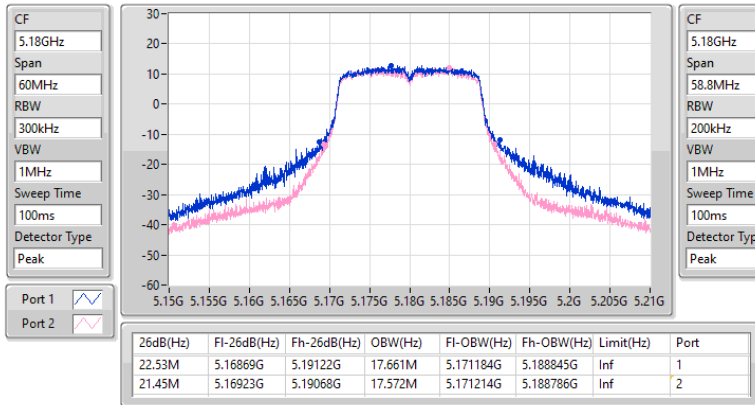


5.15-5.25GHz_802.11ac VHT20_Nss1,(MCS0)_2TX

EBW

5180MHz

10/10/2022

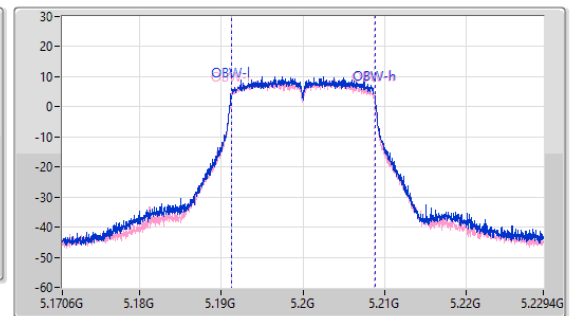
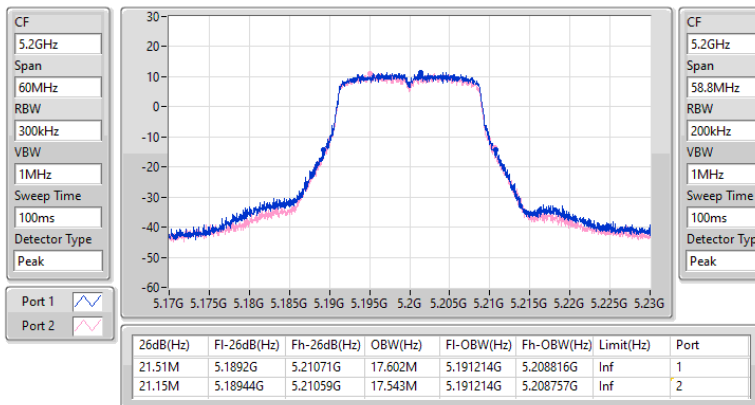


5.15-5.25GHz_802.11ac VHT20_Nss1,(MCS0)_2TX

EBW

5200MHz

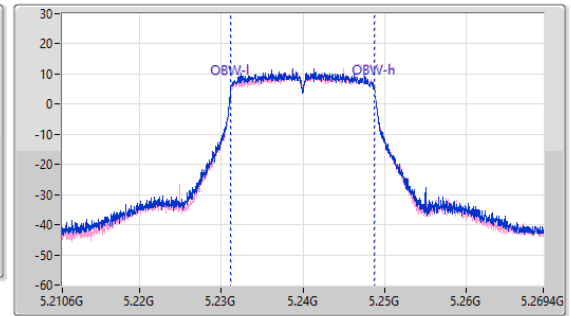
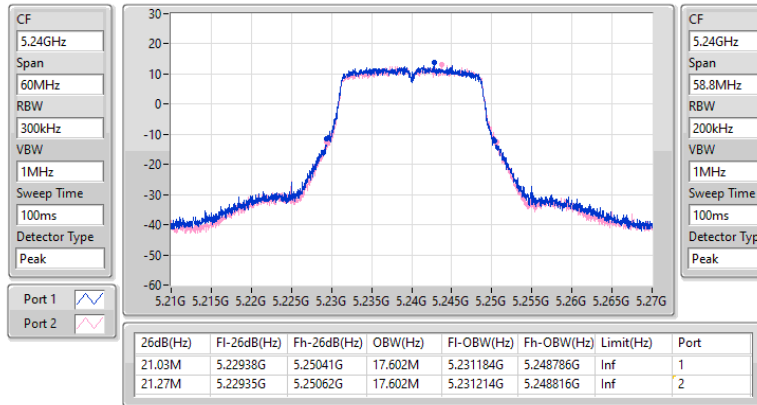
10/10/2022



5.15-5.25GHz_802.11ac VHT20_Nss1,(MCS0)_2TX
5240MHz

EBW

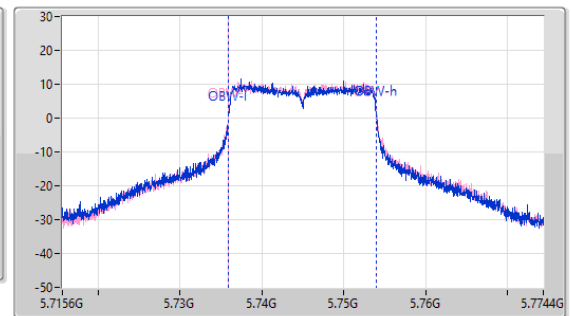
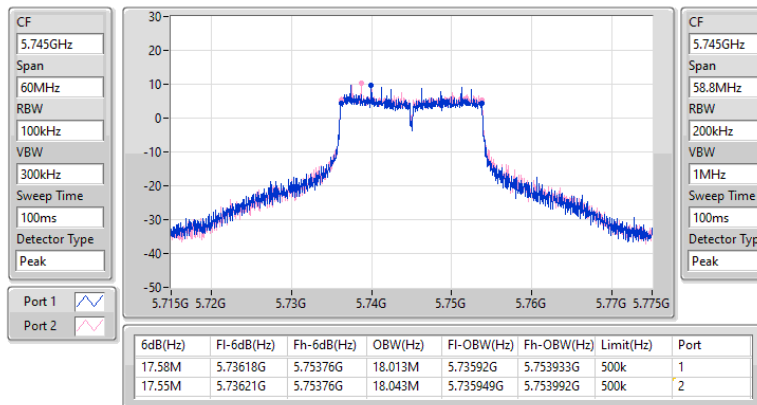
10/10/2022



5.725-5.85GHz_802.11ac VHT20_Nss1,(MCS0)_2TX
5745MHz

EBW

11/10/2022

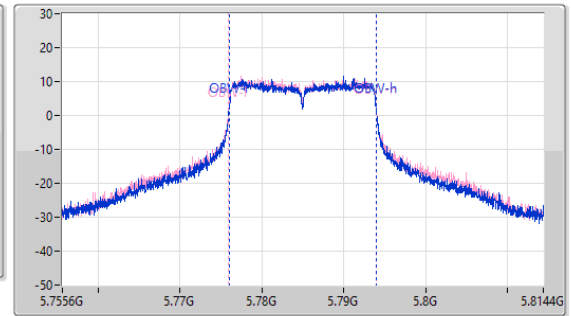
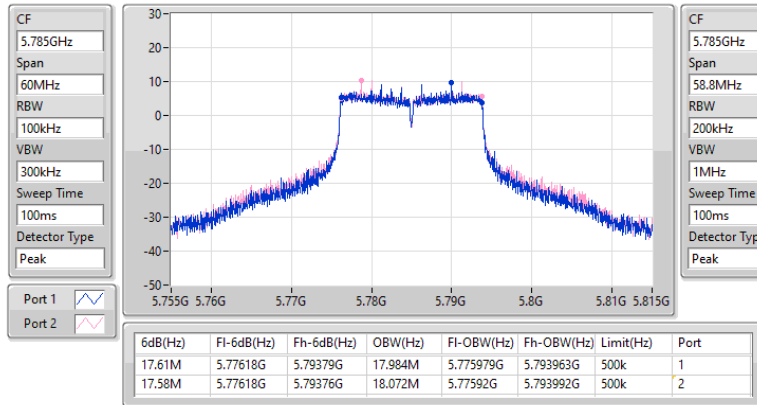


5.725-5.85GHz_802.11ac VHT20_Nss1,(MCS0)_2TX

EBW

5785MHz

11/10/2022

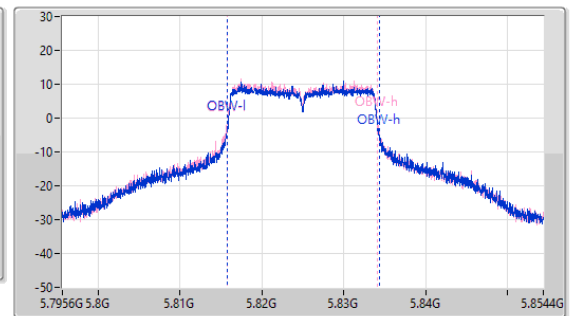
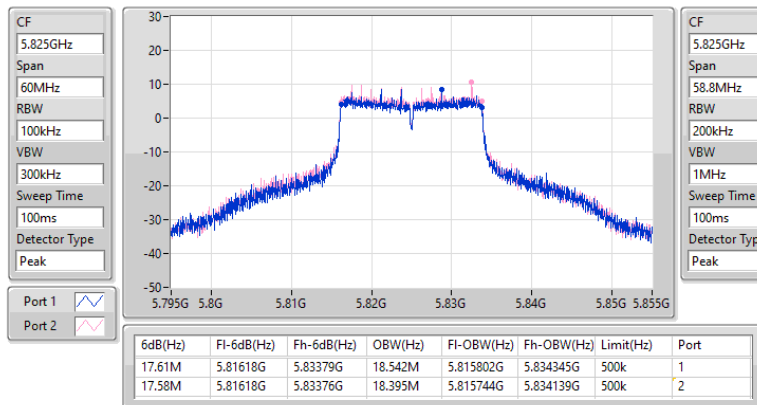


5.725-5.85GHz_802.11ac VHT20_Nss1,(MCS0)_2TX

EBW

5825MHz

11/10/2022

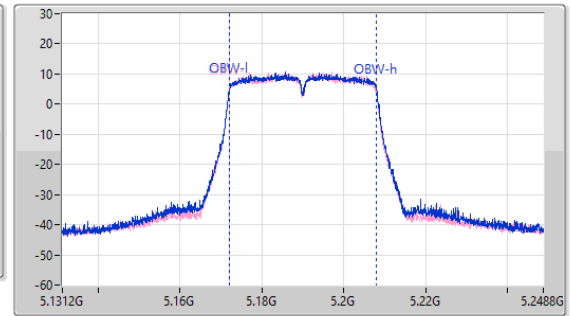
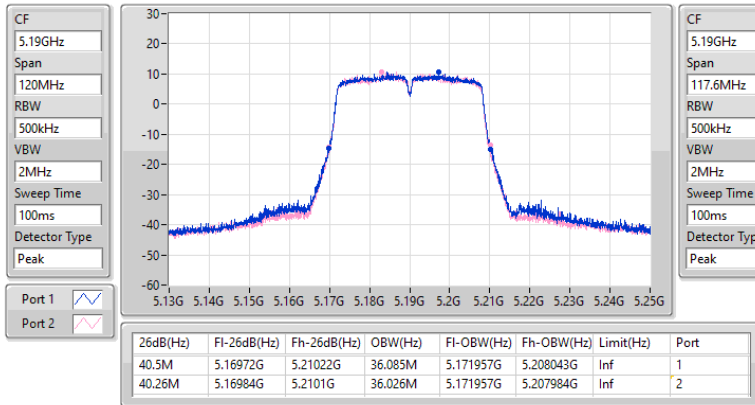


5.15-5.25GHz_802.11ac VHT40_Nss1,(MCS0)_2TX

EBW

5190MHz

10/10/2022

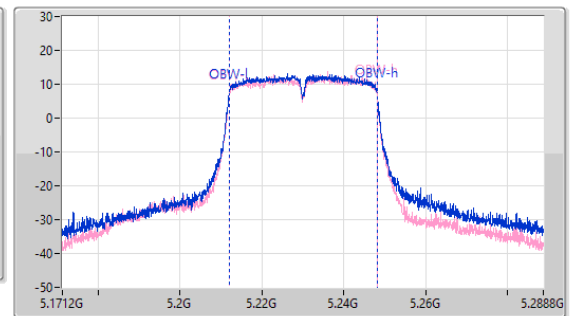
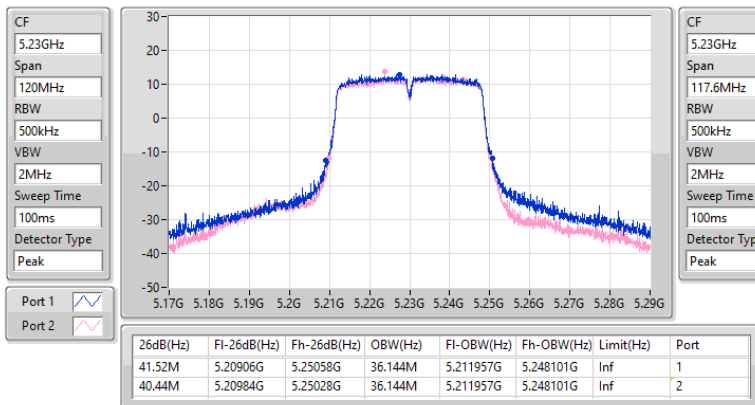


5.15-5.25GHz_802.11ac VHT40_Nss1,(MCS0)_2TX

EBW

5230MHz

10/10/2022

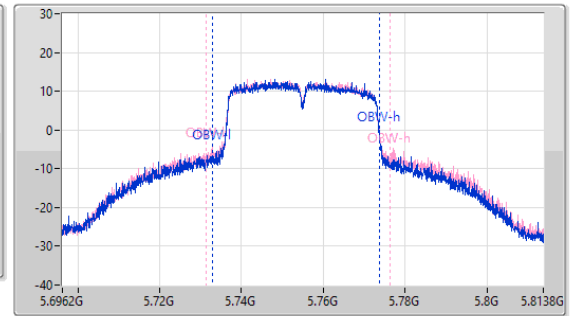
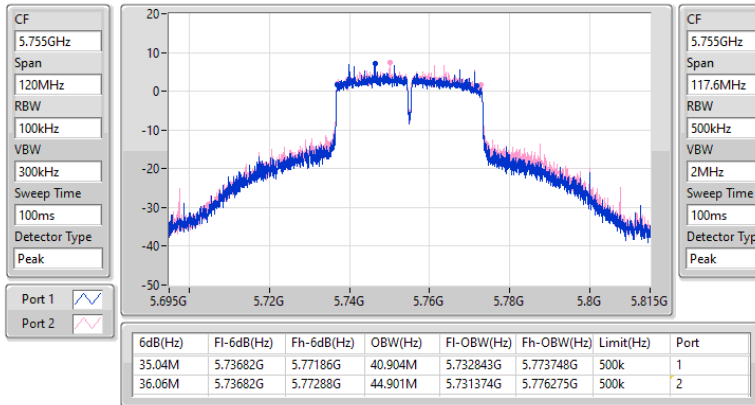


5.725-5.85GHz_802.11ac VHT40_Nss1,(MCS0)_2TX

EBW

5755MHz

11/10/2022

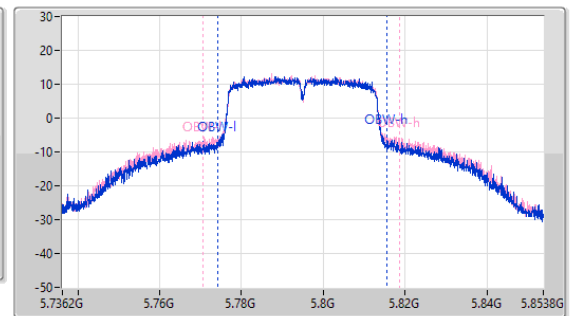
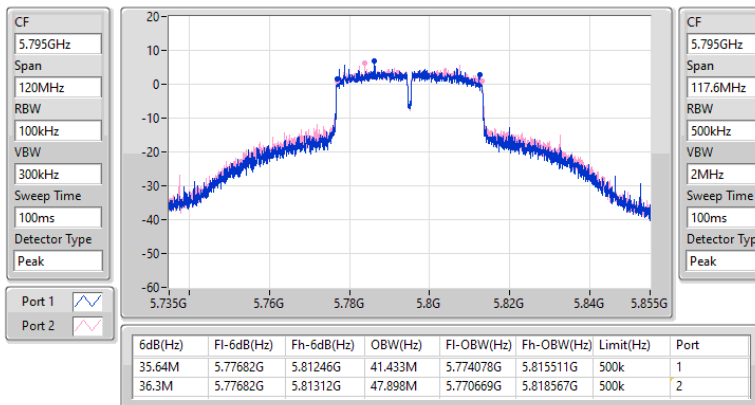


5.725-5.85GHz_802.11ac VHT40_Nss1,(MCS0)_2TX

EBW

5795MHz

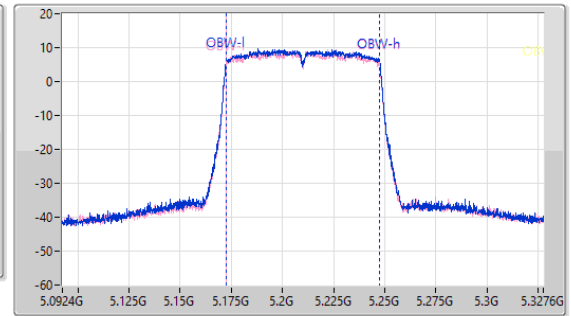
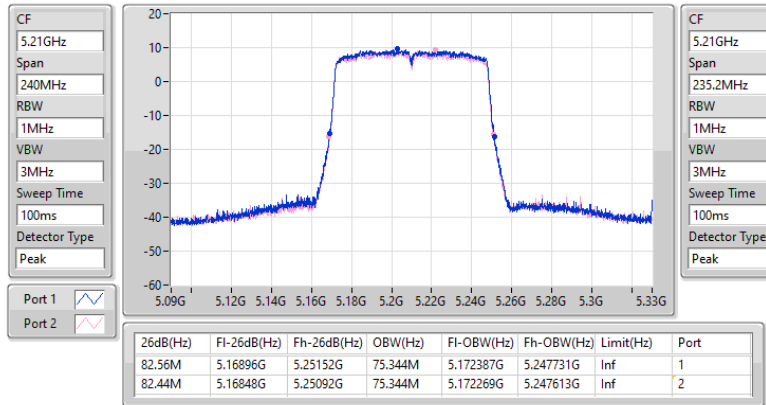
11/10/2022



5.15-5.25GHz_802.11ac VHT80_Nss1,(MCS0)_2TX 5210MHz

EBW

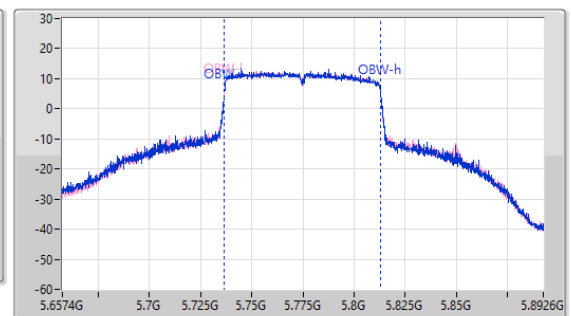
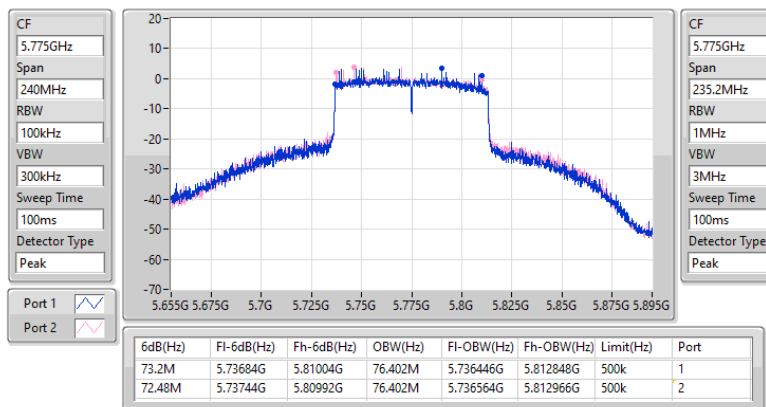
19/10/2022



5.725-5.85GHz_802.11ac VHT80_Nss1,(MCS0)_2TX 5775MHz

EBW

11/10/2022

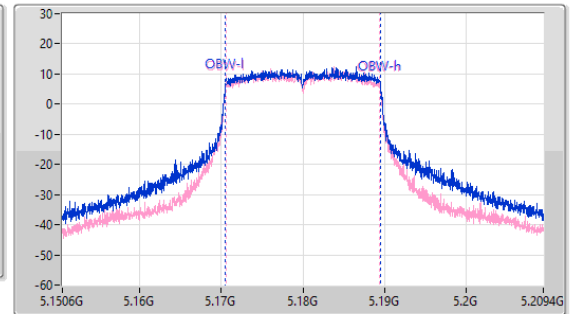
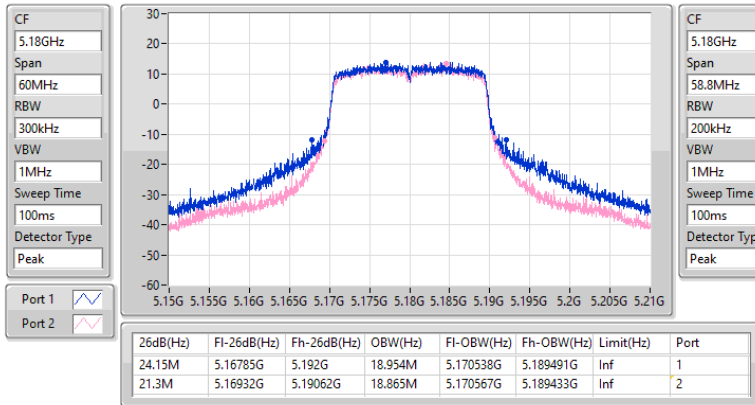


5.15-5.25GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

EBW

5180MHz

10/10/2022

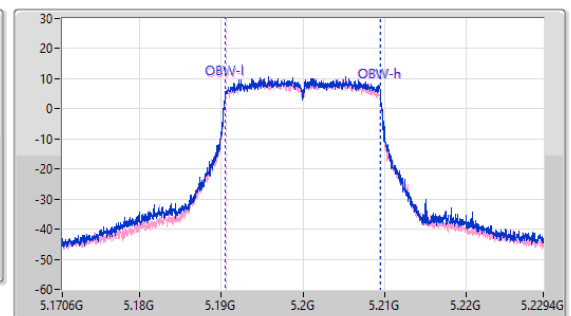
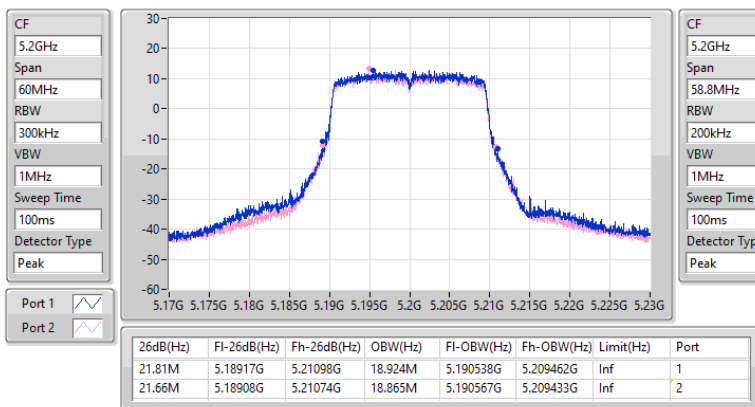


5.15-5.25GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

EBW

5200MHz

10/10/2022

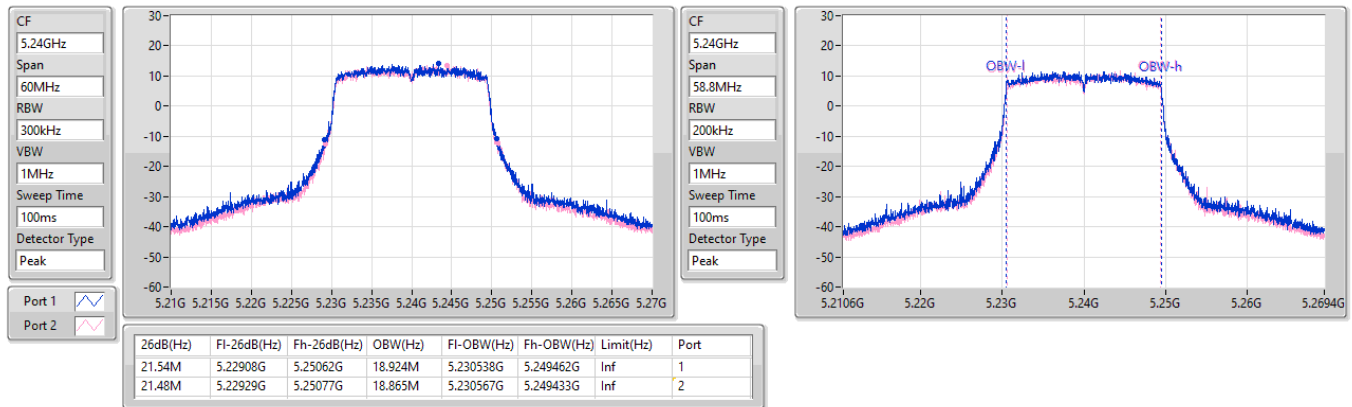


5.15-5.25GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

EBW

5240MHz

10/10/2022

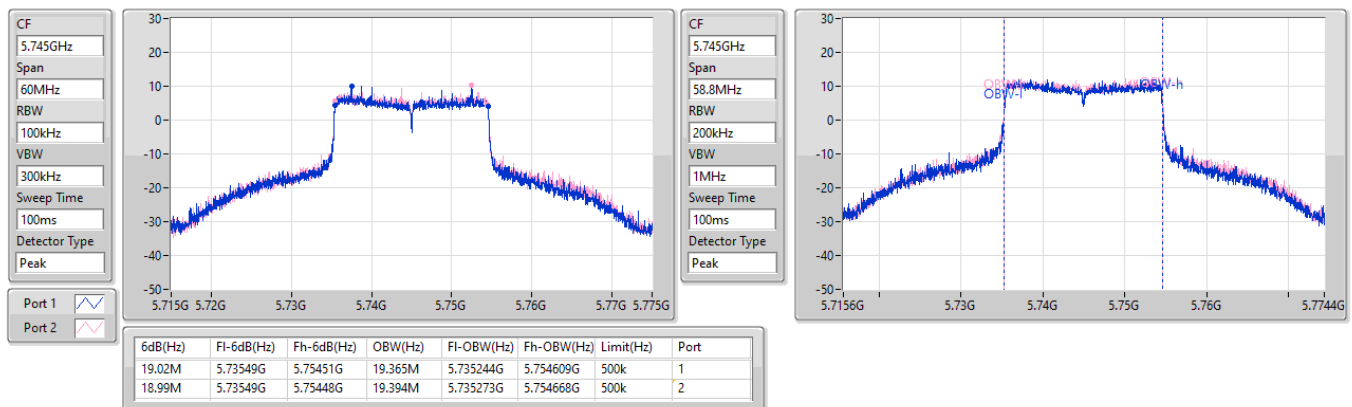


5.725-5.85GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

EBW

5745MHz

11/10/2022

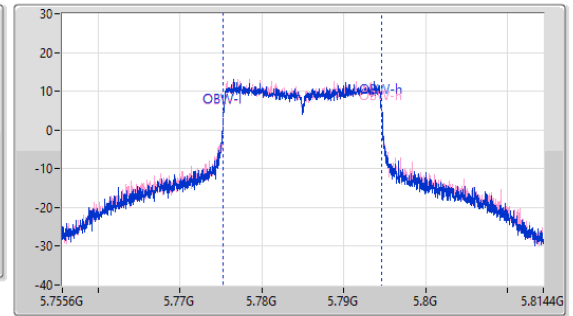
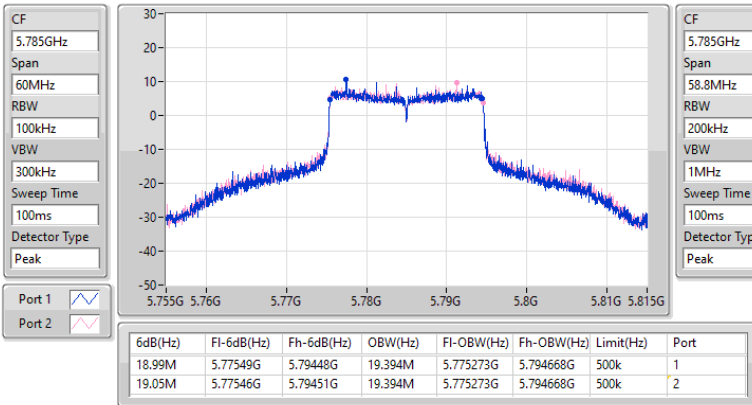


5.725-5.85GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

EBW

5785MHz

11/10/2022

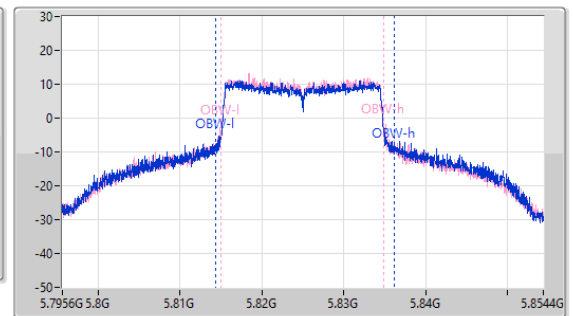
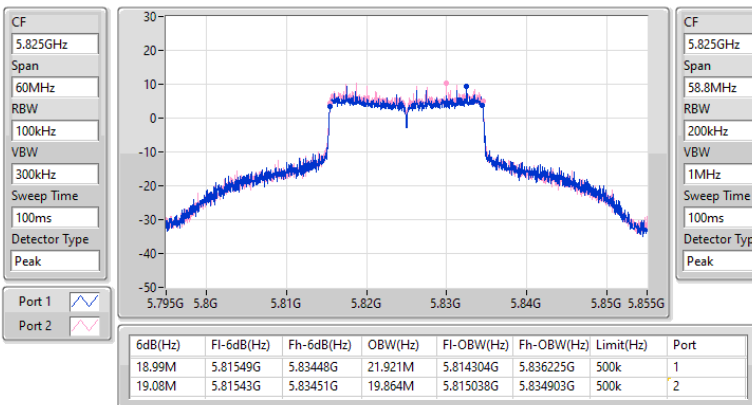


5.725-5.85GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

EBW

5825MHz

11/10/2022

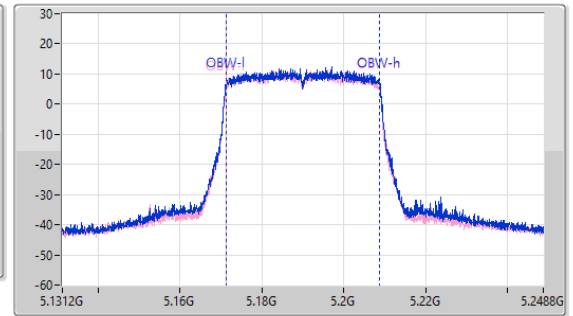
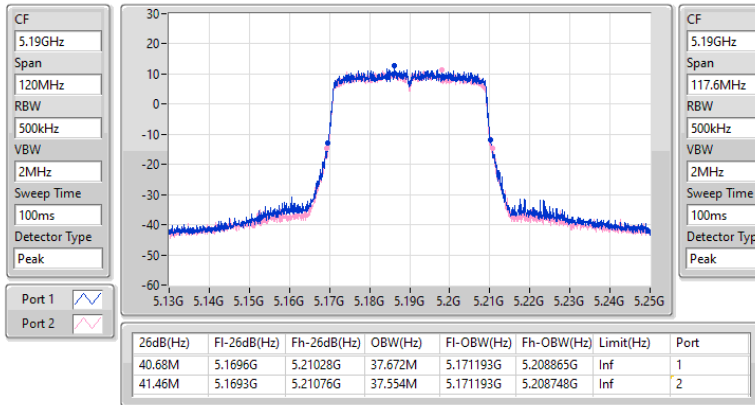


5.15-5.25GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

EBW

5190MHz

10/10/2022

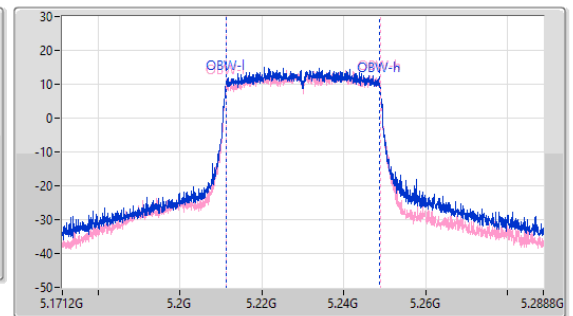
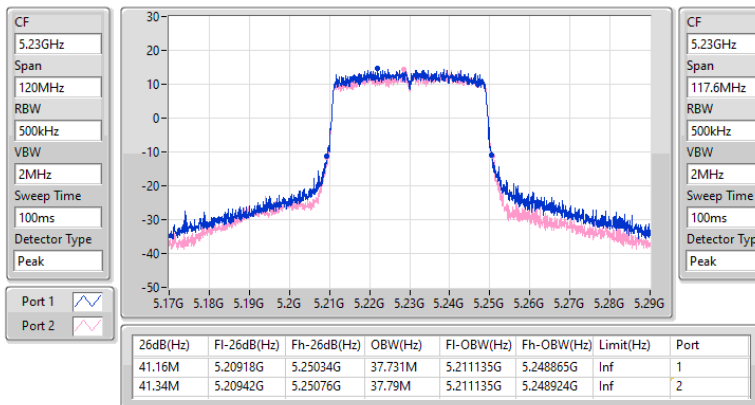


5.15-5.25GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

EBW

5230MHz

10/10/2022

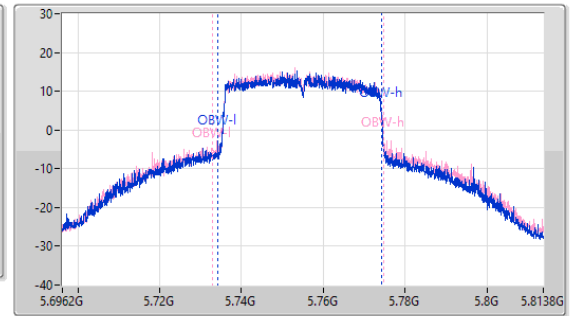
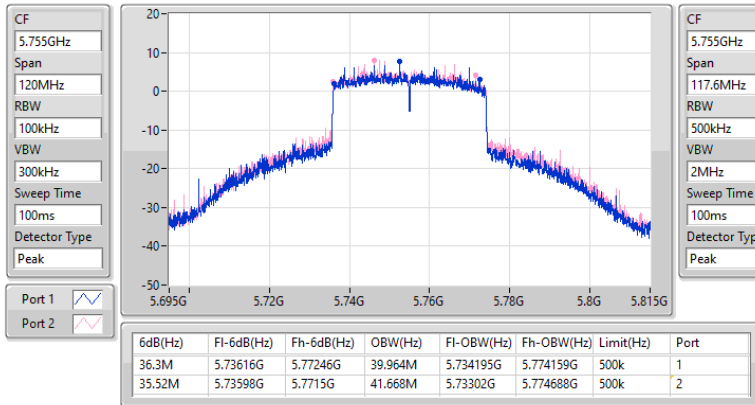


5.725-5.85GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

EBW

5755MHz

11/10/2022

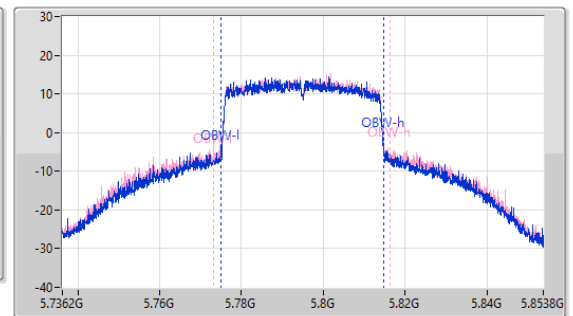
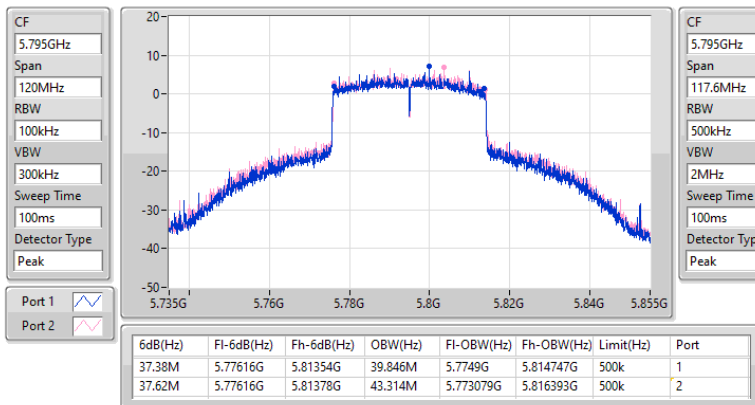


5.725-5.85GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

EBW

5795MHz

11/10/2022

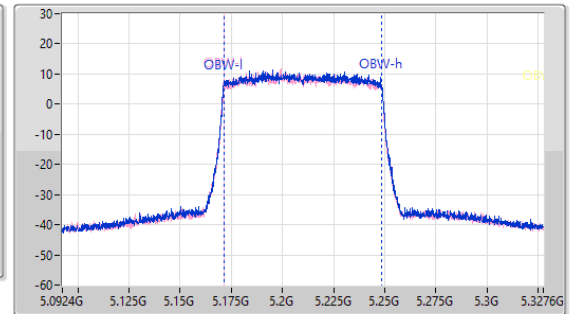
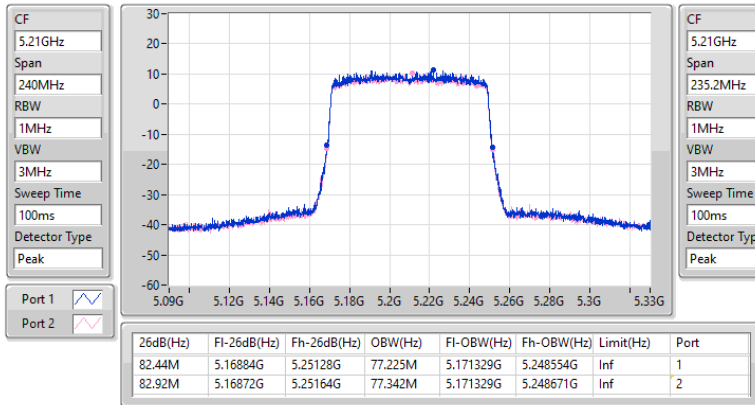


5.15-5.25GHz_802.11ax HEW80_Nss1,(MCS0)_2TX

EBW

5210MHz

19/10/2022

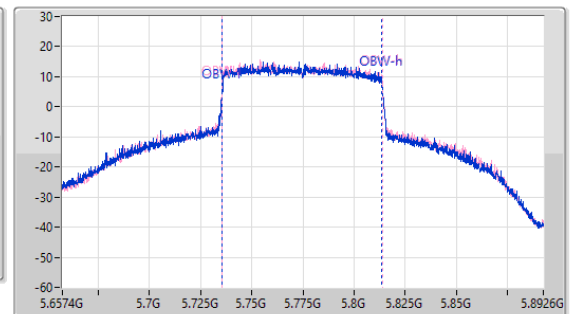
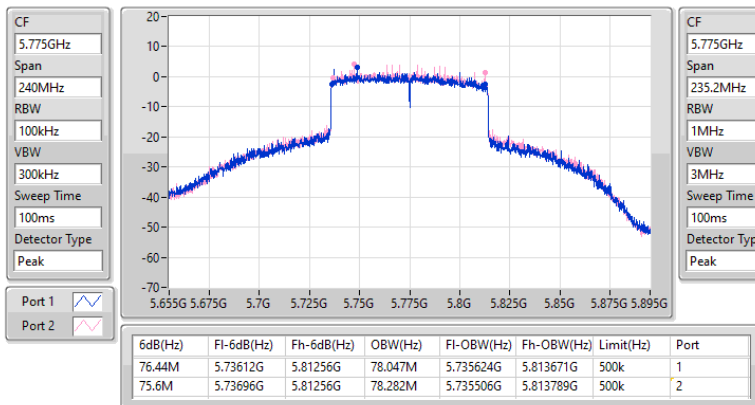


5.725-5.85GHz_802.11ax HEW80_Nss1,(MCS0)_2TX

EBW

5775MHz

11/10/2022



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	21M	16.567M	16M6D1D	19.92M	16.49M
802.11n HT20_Nss1,(MCS0)_2TX	22.02M	17.749M	17M7D1D	21.57M	17.719M
802.11n HT40_Nss1,(MCS0)_2TX	78.6M	37.025M	37M0D1D	39.3M	35.968M
802.11ac VHT20_Nss1,(MCS0)_2TX	22.02M	17.749M	17M7D1D	21.51M	17.719M
802.11ac VHT40_Nss1,(MCS0)_2TX	75.54M	37.143M	37M1D1D	39.72M	35.968M
802.11ac VHT80_Nss1,(MCS0)_2TX	82.08M	75.226M	75M2D1D	81.36M	75.109M
802.11ax HEW20_Nss1,(MCS0)_2TX	22.05M	19.1M	19M1D1D	21.69M	19.071M
802.11ax HEW40_Nss1,(MCS0)_2TX	69.12M	38.142M	38M1D1D	40.26M	37.613M
802.11ax HEW80_Nss1,(MCS0)_2TX	82.68M	76.99M	77M0D1D	82.2M	76.99M
5.725-5.85GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	16.35M	17.204M	17M2D1D	16.29M	16.618M
802.11n HT20_Nss1,(MCS0)_2TX	17.61M	18.131M	18M1D1D	17.58M	17.807M
802.11n HT40_Nss1,(MCS0)_2TX	36.3M	37.672M	37M7D1D	34.62M	36.261M
802.11ac VHT20_Nss1,(MCS0)_2TX	17.61M	18.043M	18M0D1D	17.55M	17.807M
802.11ac VHT40_Nss1,(MCS0)_2TX	36.3M	37.731M	37M7D1D	35.28M	36.261M
802.11ac VHT80_Nss1,(MCS0)_2TX	74.4M	75.461M	75M5D1D	73.68M	75.344M
802.11ax HEW20_Nss1,(MCS0)_2TX	19.02M	19.424M	19M4D1D	18.99M	19.189M
802.11ax HEW40_Nss1,(MCS0)_2TX	37.8M	38.26M	38M3D1D	36.24M	37.848M
802.11ax HEW80_Nss1,(MCS0)_2TX	77.28M	77.225M	77M2D1D	76.32M	77.107M

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	20.4M	16.49M	20.79M	16.541M
5200MHz	Pass	Inf	20.49M	16.516M	21M	16.567M
5240MHz	Pass	Inf	19.92M	16.516M	20.49M	16.516M
5745MHz	Pass	500k	16.35M	16.72M	16.32M	16.822M
5785MHz	Pass	500k	16.35M	16.643M	16.29M	17.204M
5825MHz	Pass	500k	16.35M	16.618M	16.35M	16.72M
802.11n HT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5180MHz	Pass	Inf	21.57M	17.749M	21.96M	17.749M
5200MHz	Pass	Inf	21.72M	17.719M	21.66M	17.749M
5240MHz	Pass	Inf	22.02M	17.719M	21.93M	17.749M
5745MHz	Pass	500k	17.58M	17.837M	17.58M	17.925M
5785MHz	Pass	500k	17.58M	17.837M	17.61M	18.131M
5825MHz	Pass	500k	17.61M	17.807M	17.58M	17.866M
802.11n HT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5190MHz	Pass	Inf	39.3M	35.968M	39.84M	35.968M
5230MHz	Pass	Inf	67.74M	36.497M	78.6M	37.025M
5755MHz	Pass	500k	35.7M	36.261M	34.8M	36.497M
5795MHz	Pass	500k	34.62M	36.261M	36.3M	37.672M
802.11ac VHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5180MHz	Pass	Inf	22.02M	17.719M	21.72M	17.749M
5200MHz	Pass	Inf	21.72M	17.719M	21.81M	17.749M
5240MHz	Pass	Inf	21.51M	17.719M	21.84M	17.749M
5745MHz	Pass	500k	17.55M	17.866M	17.55M	17.925M
5785MHz	Pass	500k	17.55M	17.837M	17.61M	18.043M
5825MHz	Pass	500k	17.55M	17.807M	17.61M	17.866M
802.11ac VHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5190MHz	Pass	Inf	39.72M	35.968M	40.14M	36.026M
5230MHz	Pass	Inf	69.9M	36.497M	75.54M	37.143M
5755MHz	Pass	500k	35.94M	36.32M	35.28M	36.497M
5795MHz	Pass	500k	36.3M	36.261M	35.28M	37.731M
802.11ac VHT80_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5210MHz	Pass	Inf	81.36M	75.109M	82.08M	75.226M
5775MHz	Pass	500k	74.4M	75.461M	73.68M	75.344M
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5180MHz	Pass	Inf	22.05M	19.071M	21.99M	19.1M
5200MHz	Pass	Inf	21.69M	19.1M	21.9M	19.071M
5240MHz	Pass	Inf	21.9M	19.071M	21.93M	19.1M
5745MHz	Pass	500k	18.99M	19.247M	18.99M	19.247M
5785MHz	Pass	500k	18.99M	19.189M	19.02M	19.424M
5825MHz	Pass	500k	18.99M	19.189M	18.99M	19.218M
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5190MHz	Pass	Inf	40.26M	37.613M	40.38M	37.672M
5230MHz	Pass	Inf	61.74M	38.025M	69.12M	38.142M
5755MHz	Pass	500k	37.44M	37.848M	37.8M	37.966M
5795MHz	Pass	500k	36.24M	37.848M	37.56M	38.26M
802.11ax HEW80_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5210MHz	Pass	Inf	82.2M	76.99M	82.68M	76.99M
5775MHz	Pass	500k	76.32M	77.107M	77.28M	77.225M

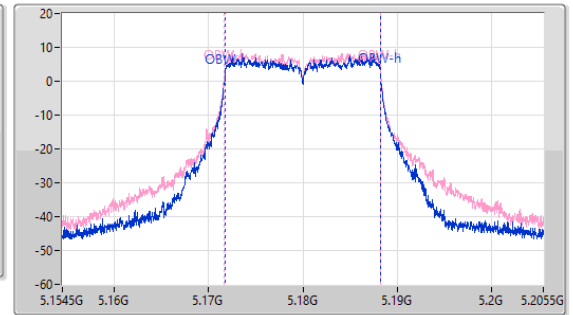
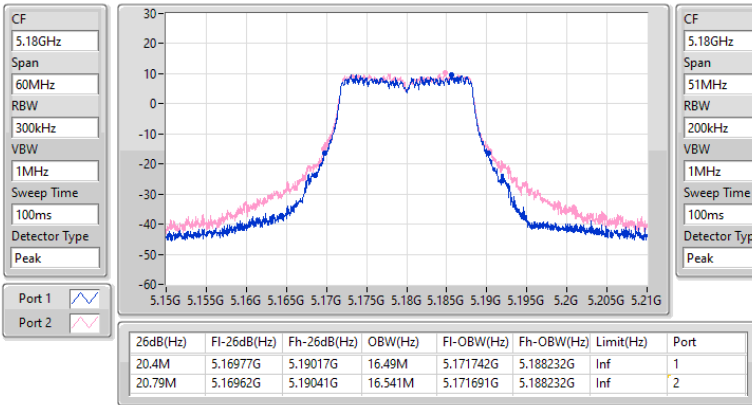
Port X-N dB = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band
Port X-OBW = Port X 99% occupied bandwidth

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

EBW

5180MHz

11/10/2022

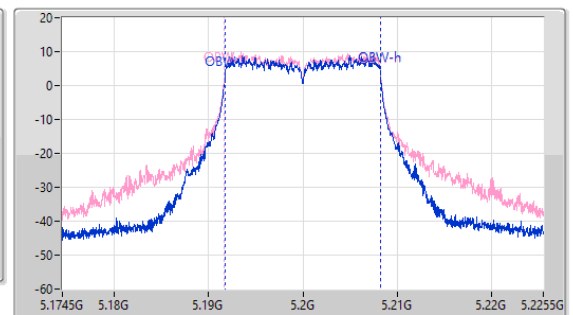
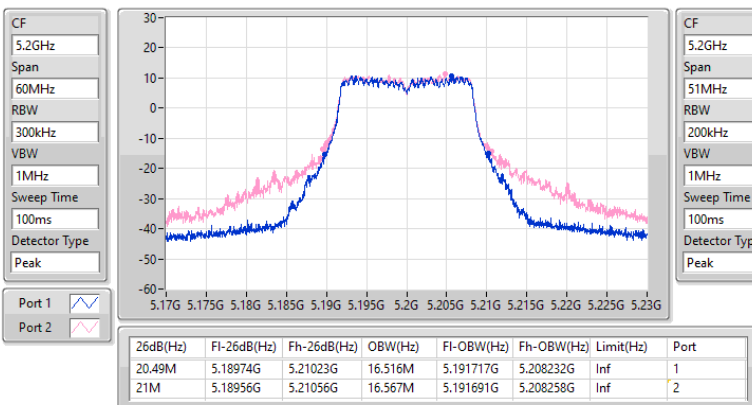


5.15-5.25GHz_802.11a_Nss1,(6Mbps)_2TX

EBW

5200MHz

11/10/2022

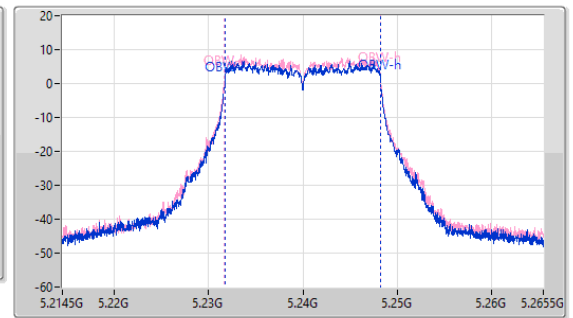
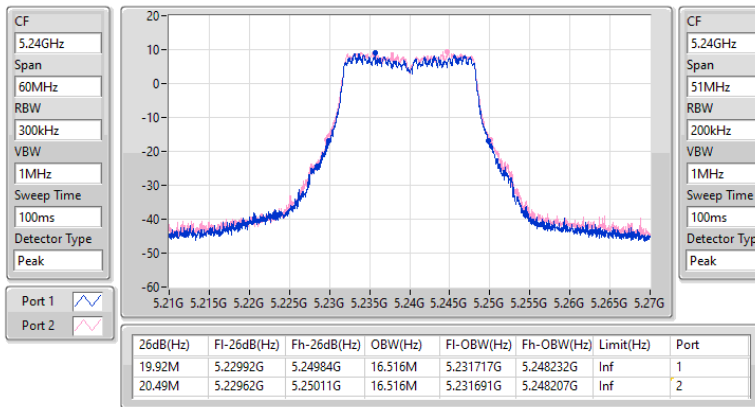


5.15-5.25GHz_802.11a_Nss1,(6Mbps)_2TX

EBW

5240MHz

11/10/2022

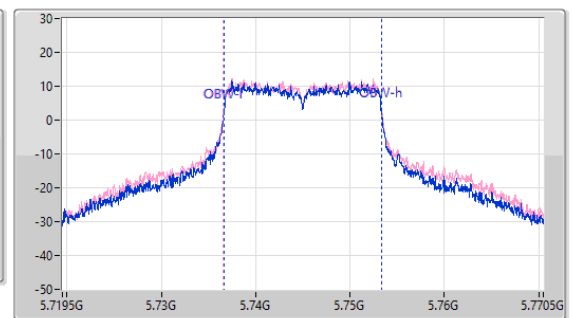
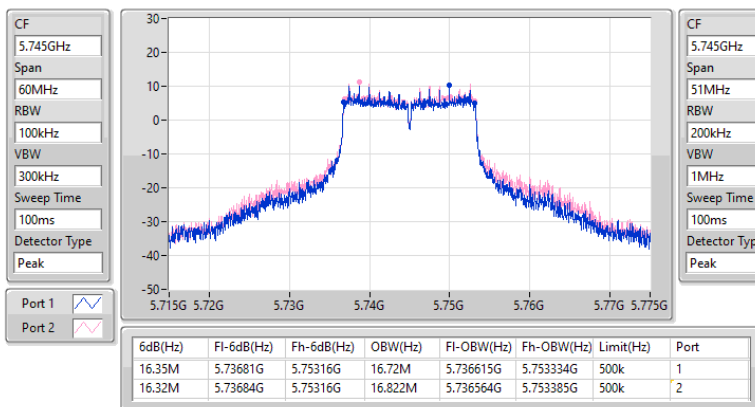


5.725-5.85GHz_802.11a_Nss1,(6Mbps)_2TX

EBW

5745MHz

11/10/2022

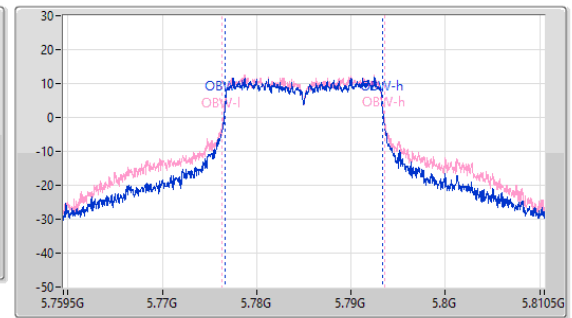
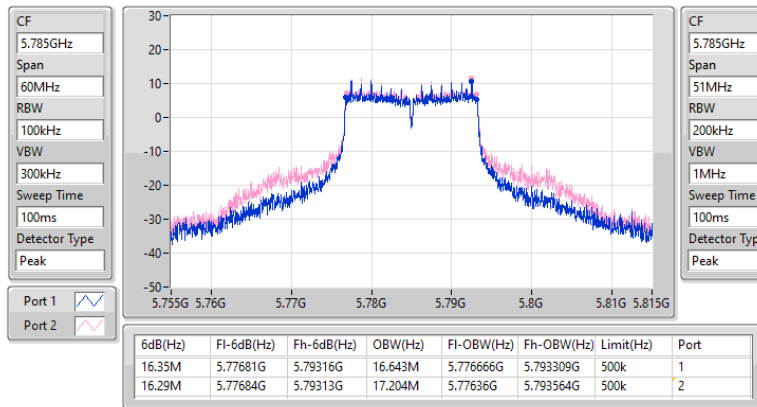


5.725-5.85GHz_802.11a_Nss1,(6Mbps)_2TX

EBW

5785MHz

11/10/2022

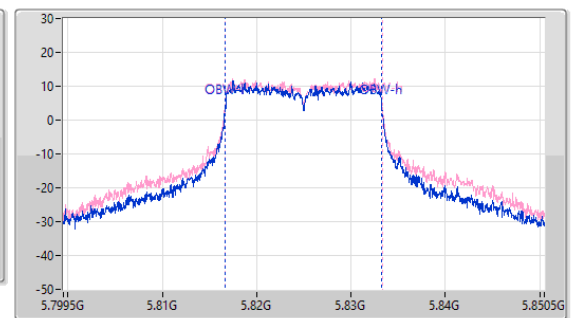
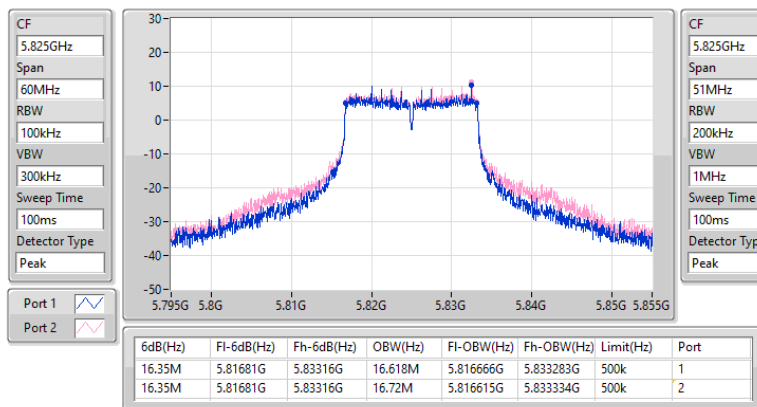


5.725-5.85GHz_802.11a_Nss1,(6Mbps)_2TX

EBW

5825MHz

11/10/2022

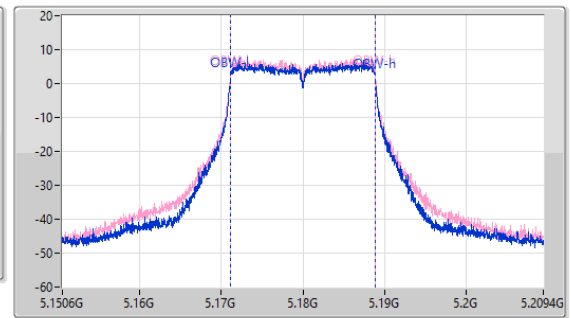
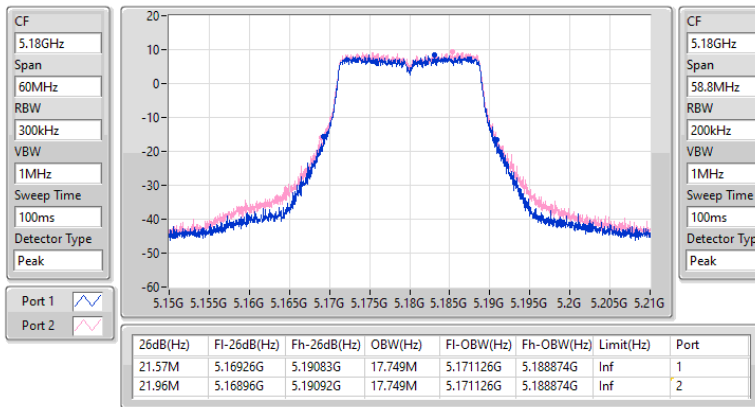


5.15-5.25GHz_802.11n HT20_Nss1,(MCS0)_2TX

EBW

5180MHz

11/10/2022

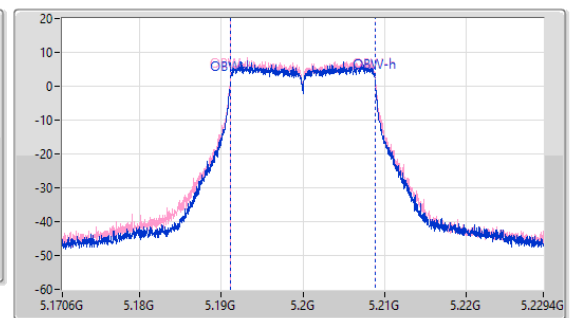
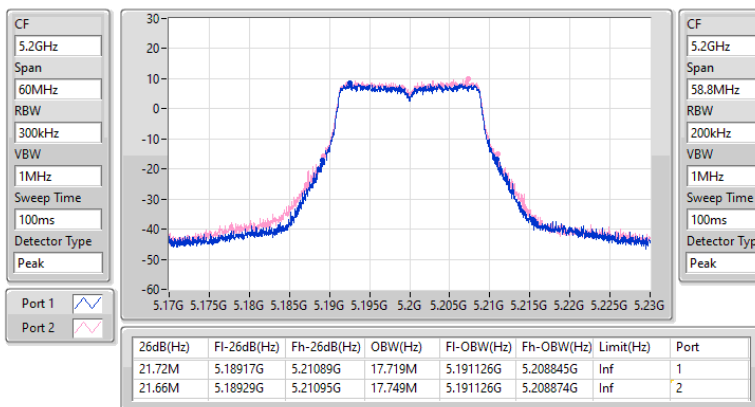


5.15-5.25GHz_802.11n HT20_Nss1,(MCS0)_2TX

EBW

5200MHz

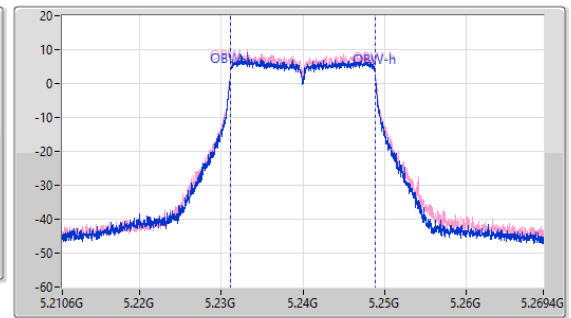
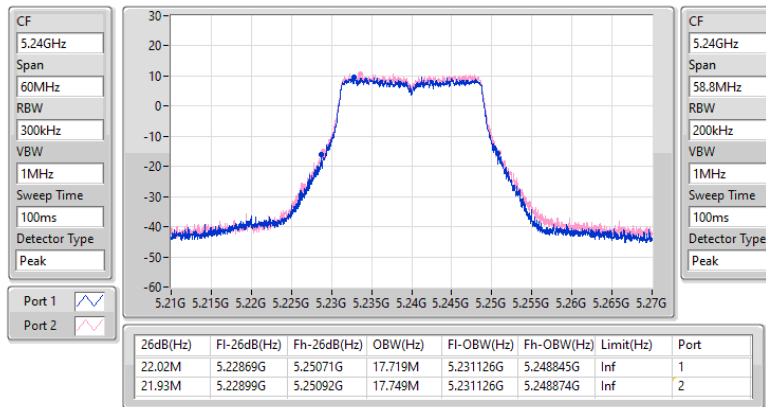
11/10/2022



5.15-5.25GHz_802.11n HT20_Nss1,(MCS0)_2TX
5240MHz

EBW

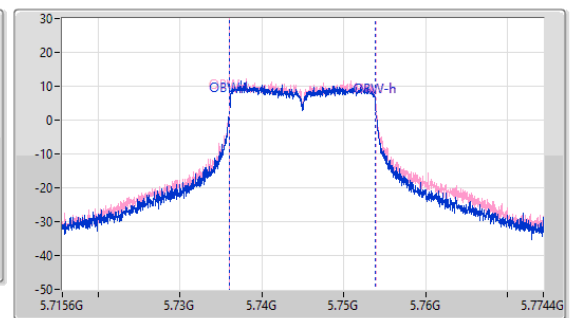
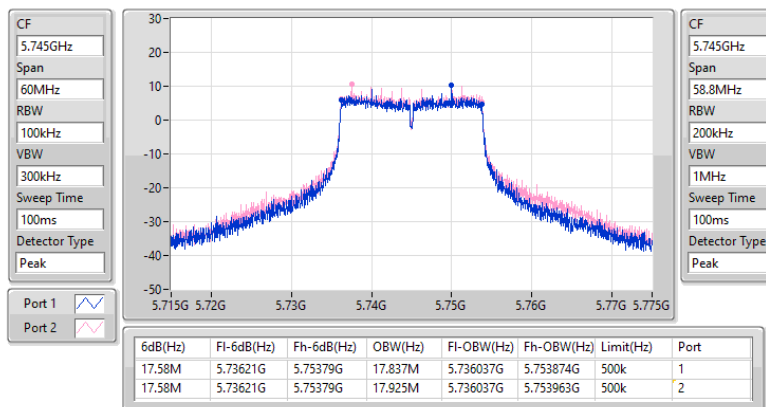
11/10/2022



5.725-5.85GHz_802.11n HT20_Nss1,(MCS0)_2TX
5745MHz

EBW

11/10/2022

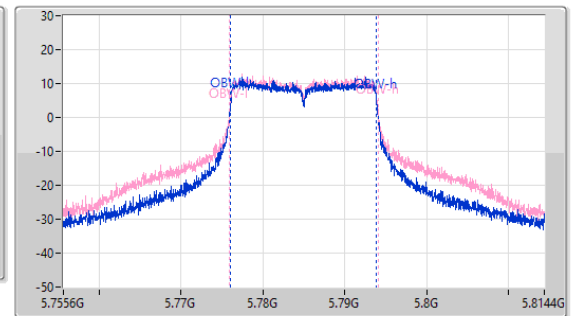
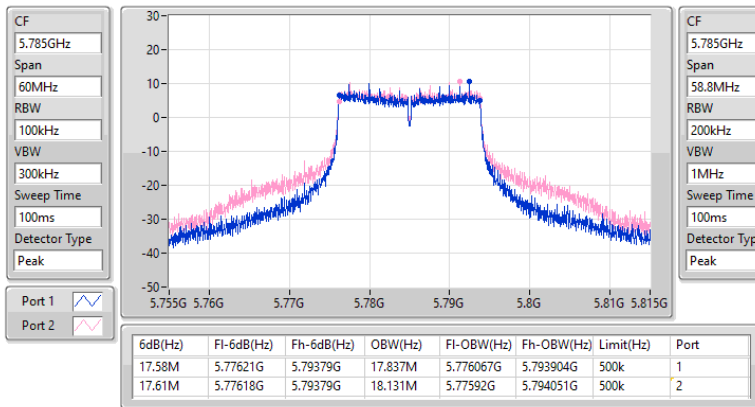


5.725-5.85GHz_802.11n HT20_Nss1,(MCS0)_2TX

EBW

5785MHz

11/10/2022

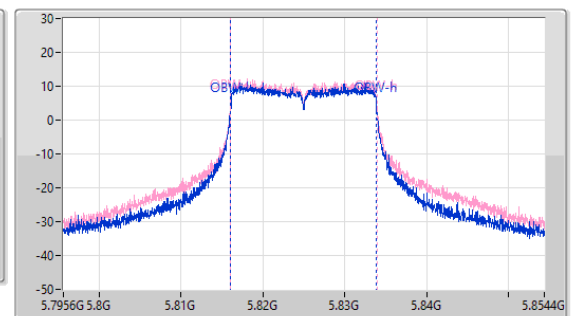
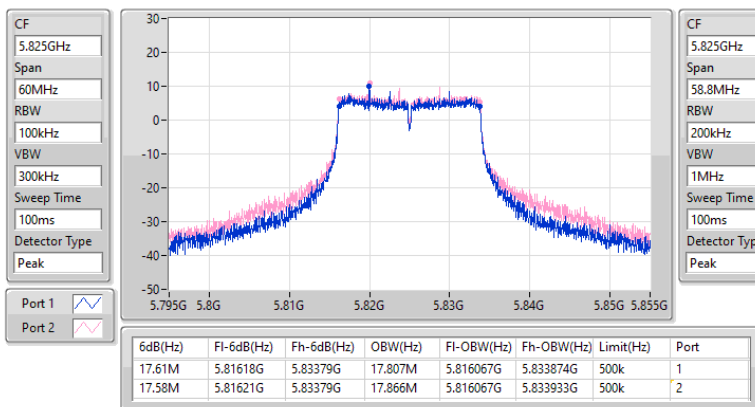


5.725-5.85GHz_802.11n HT20_Nss1,(MCS0)_2TX

EBW

5825MHz

11/10/2022

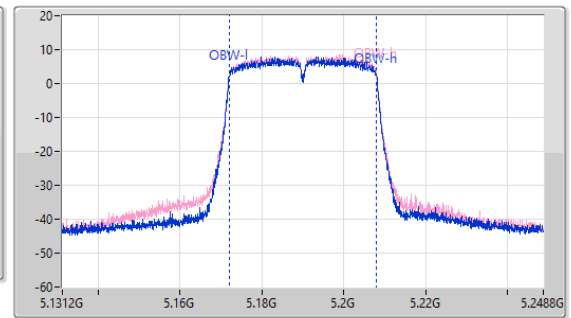
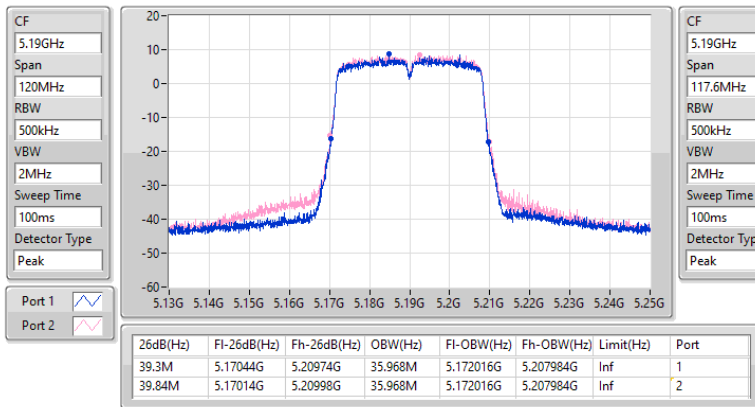


5.15-5.25GHz_802.11n HT40_Nss1,(MCS0)_2TX

5190MHz

EBW

11/10/2022

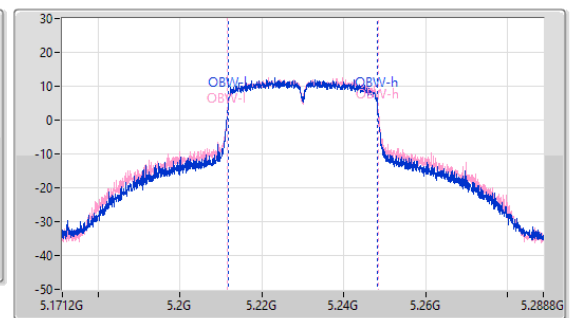
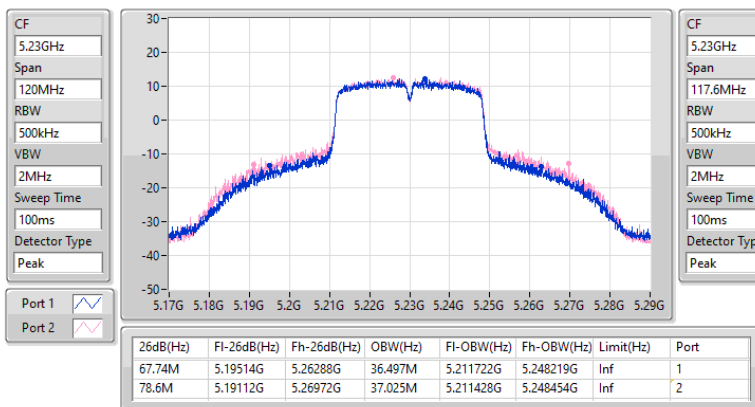


5.15-5.25GHz_802.11n HT40_Nss1,(MCS0)_2TX

5230MHz

EBW

11/10/2022

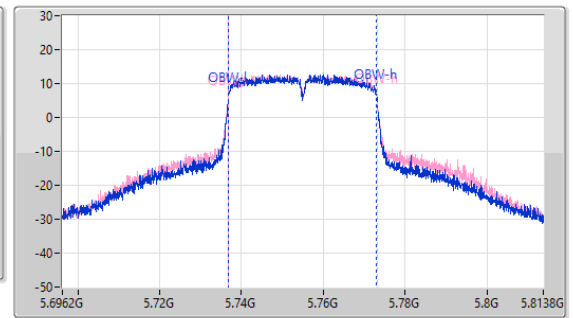
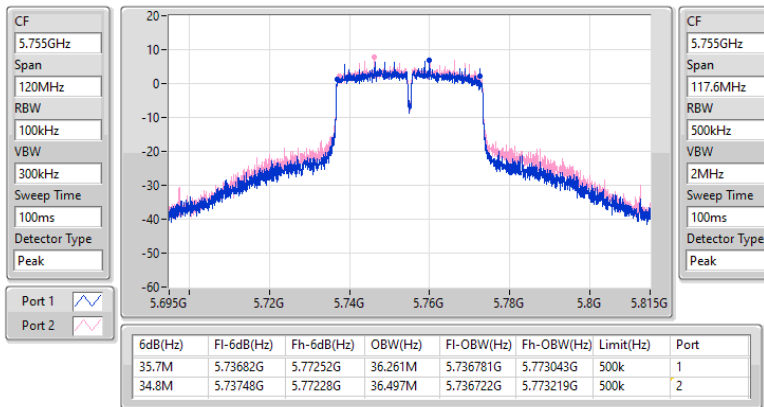


5.725-5.85GHz_802.11n HT40_Nss1,(MCS0)_2TX

EBW

5755MHz

11/10/2022

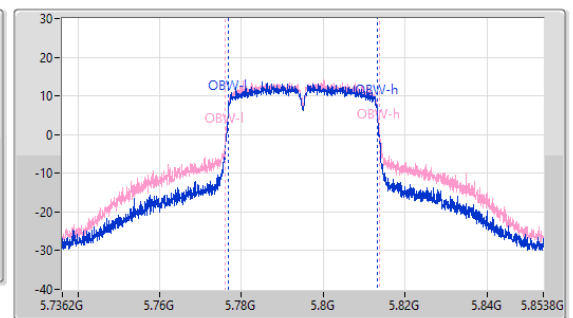
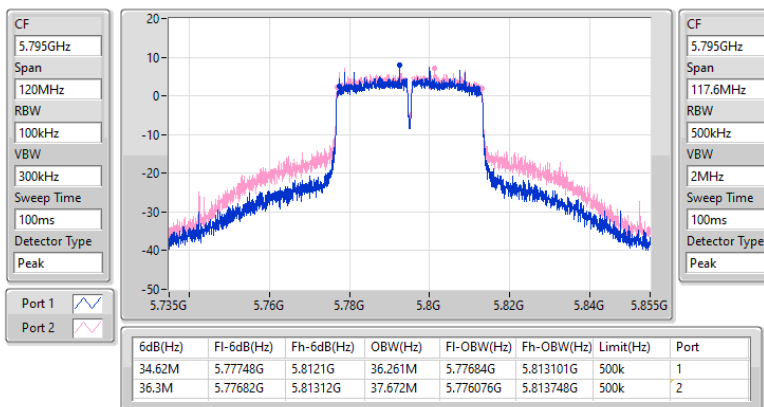


5.725-5.85GHz_802.11n HT40_Nss1,(MCS0)_2TX

EBW

5795MHz

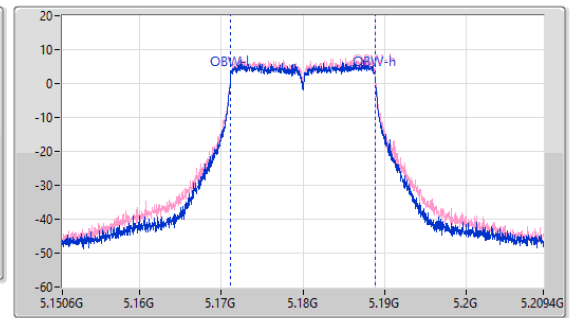
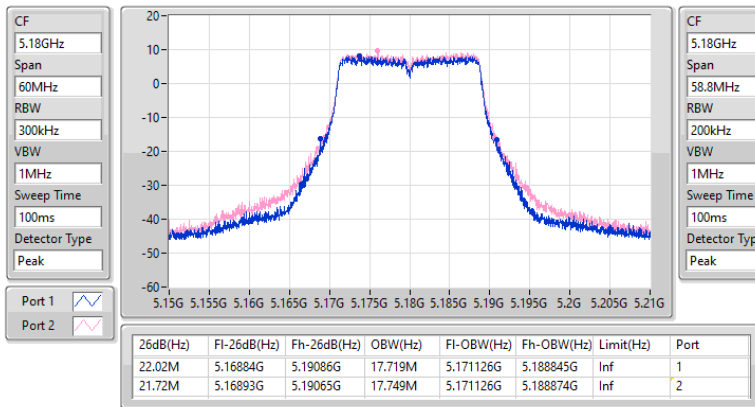
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5.15-5.25GHz_802.11ac VHT20_Nss1,(MCS0)_2TX
5180MHz

EBW

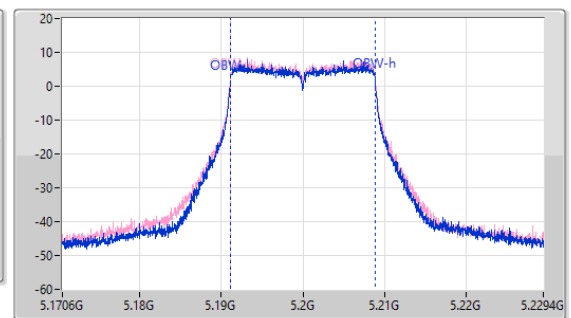
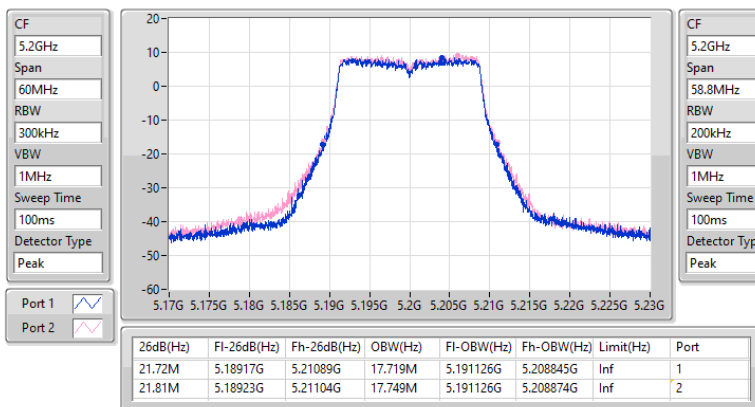
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5.15-5.25GHz_802.11ac VHT20_Nss1,(MCS0)_2TX
5200MHz

EBW

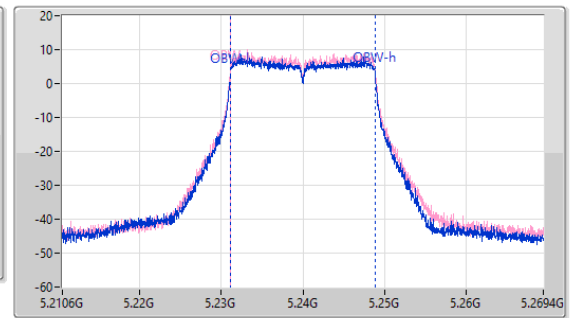
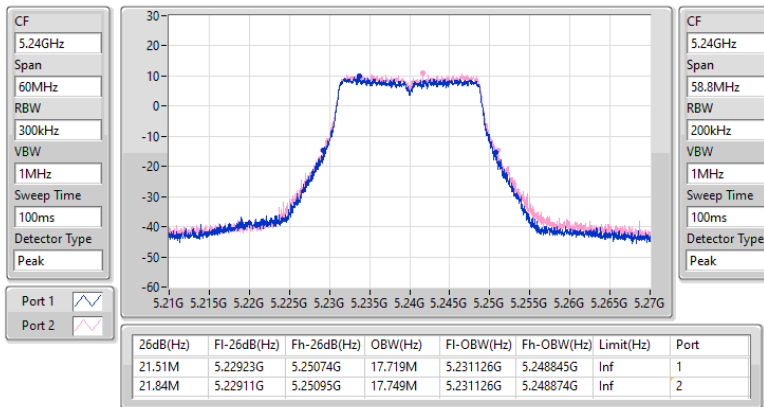
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5.15-5.25GHz_802.11ac VHT20_Nss1,(MCS0)_2TX
5240MHz

EBW

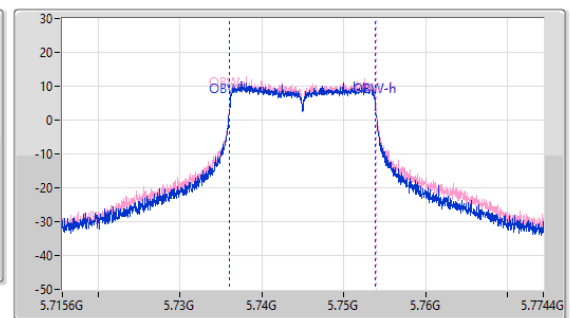
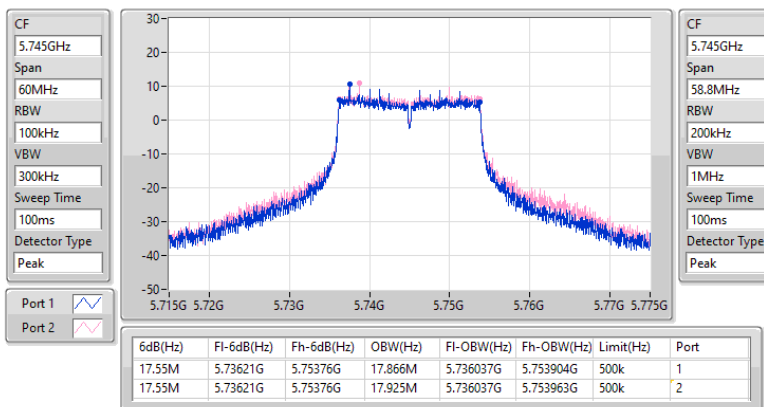
11/10/2022



5.725-5.85GHz_802.11ac VHT20_Nss1,(MCS0)_2TX
5745MHz

EBW

11/10/2022

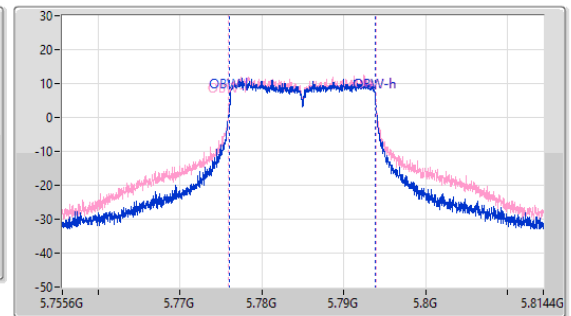
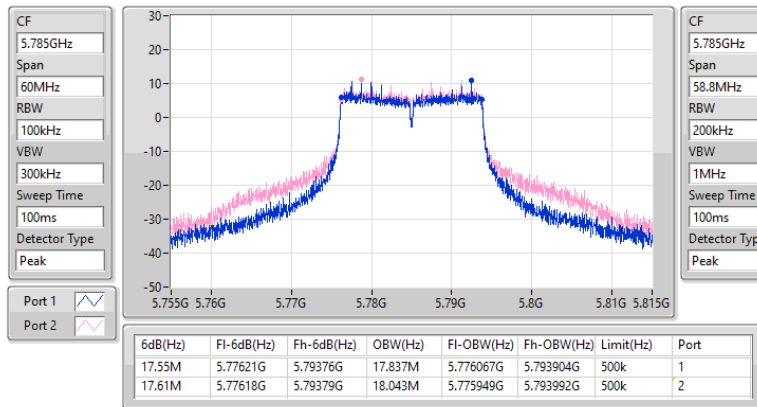


5.725-5.85GHz_802.11ac VHT20_Nss1,(MCS0)_2TX

EBW

5785MHz

11/10/2022

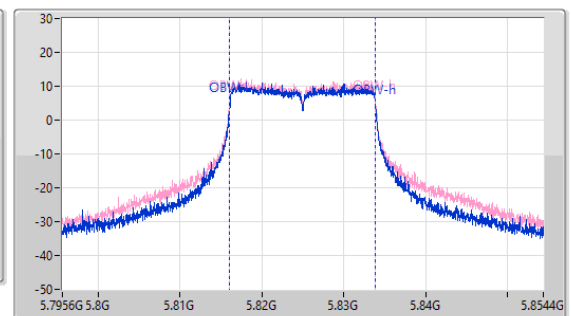
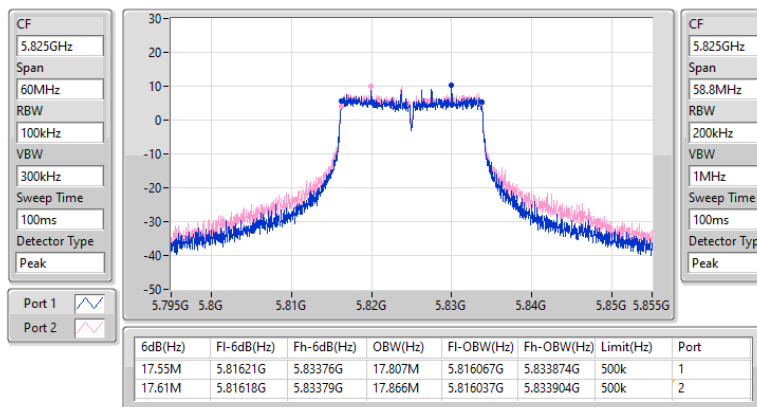


5.725-5.85GHz_802.11ac VHT20_Nss1,(MCS0)_2TX

EBW

5825MHz

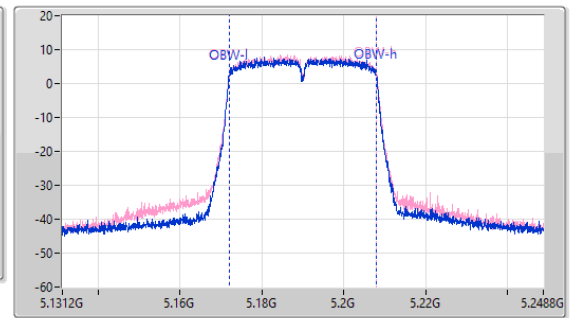
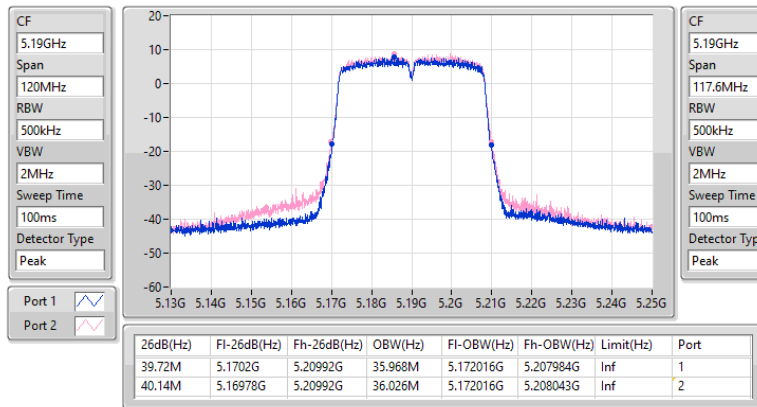
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5.15-5.25GHz_802.11ac VHT40_Nss1,(MCS0)_2TX
5190MHz

EBW

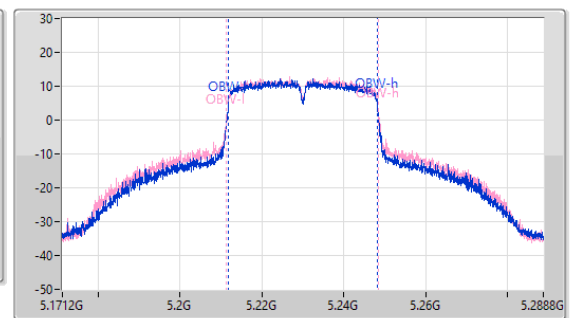
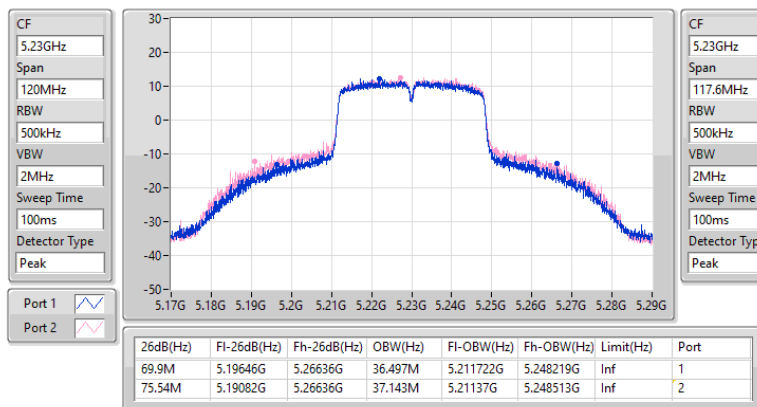
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5.15-5.25GHz_802.11ac VHT40_Nss1,(MCS0)_2TX
5230MHz

EBW

11/10/2022

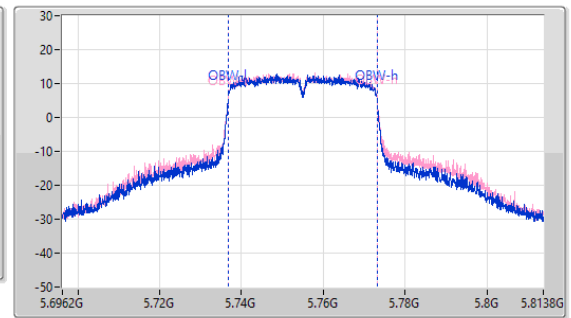
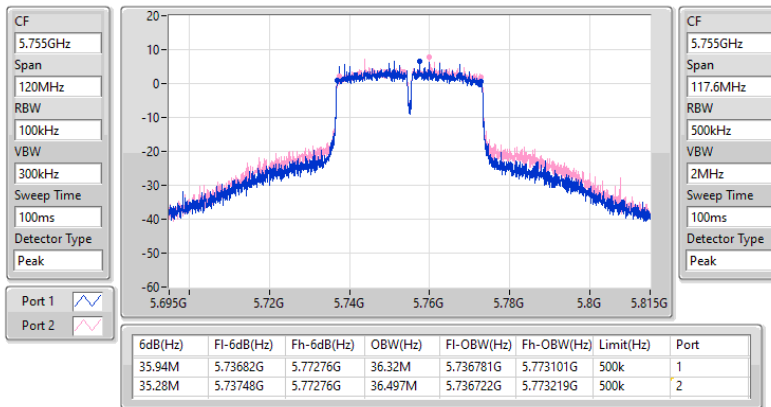


5.725-5.85GHz_802.11ac VHT40_Nss1,(MCS0)_2TX

EBW

5755MHz

11/10/2022

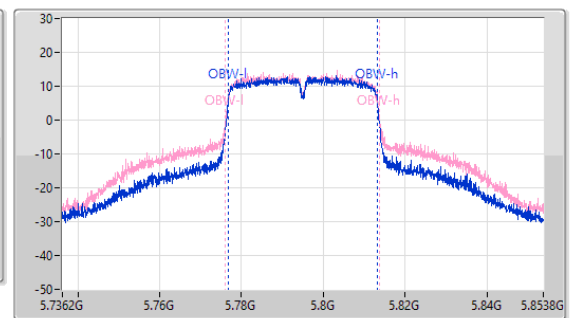
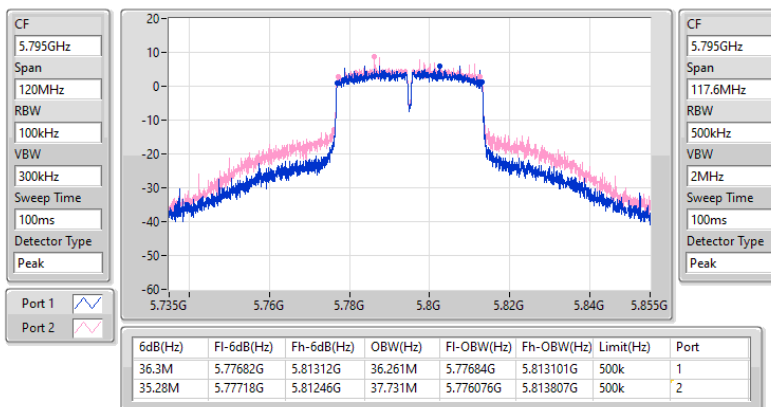


5.725-5.85GHz_802.11ac VHT40_Nss1,(MCS0)_2TX

EBW

5795MHz

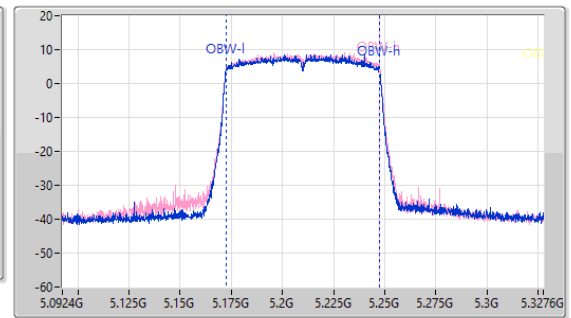
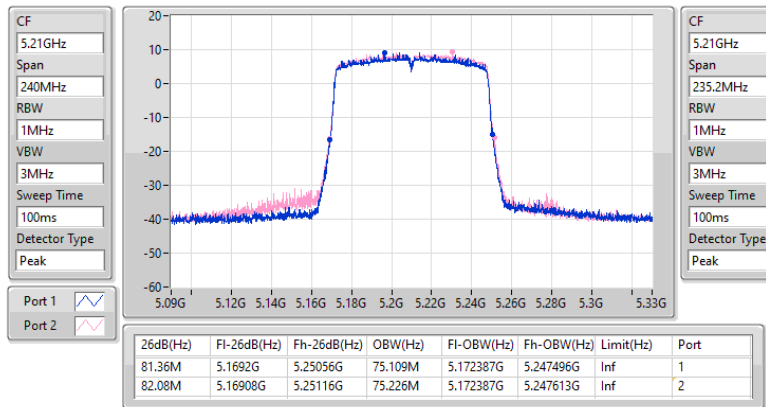
11/10/2022



5.15-5.25GHz_802.11ac VHT80_Nss1,(MCS0)_2TX
5210MHz

EBW

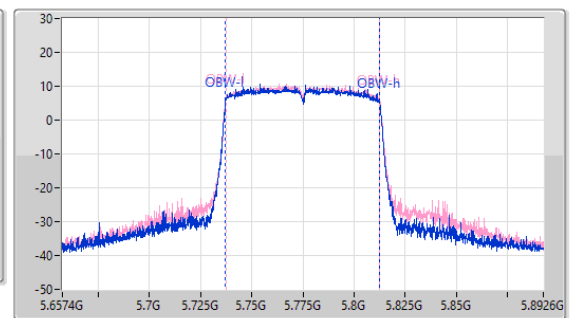
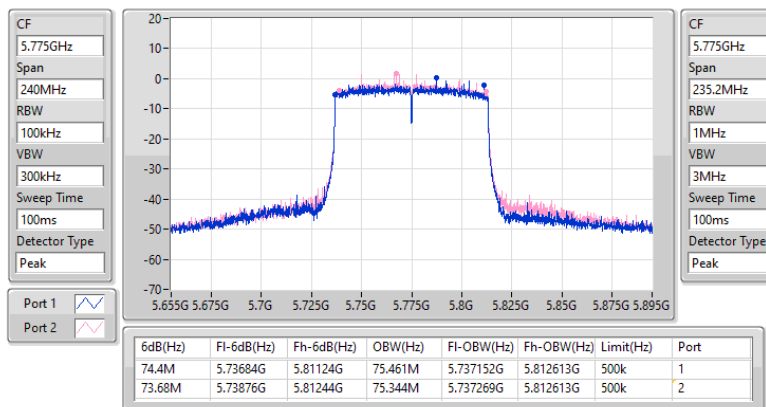
11/10/2022



5.725-5.85GHz_802.11ac VHT80_Nss1,(MCS0)_2TX
5775MHz

EBW

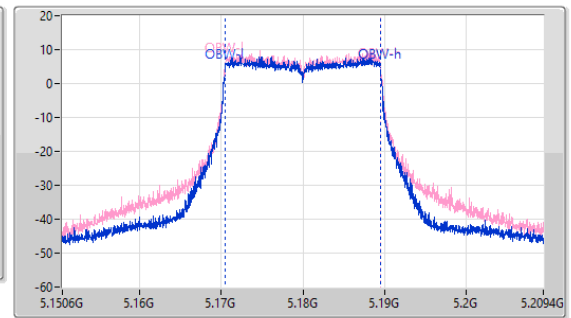
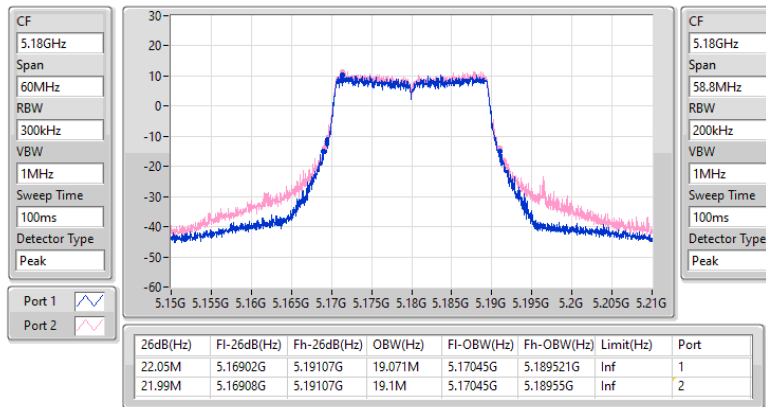
11/10/2022



5.15-5.25GHz_802.11ax HEW20_Nss1,(MCS0)_2TX 5180MHz

EBW

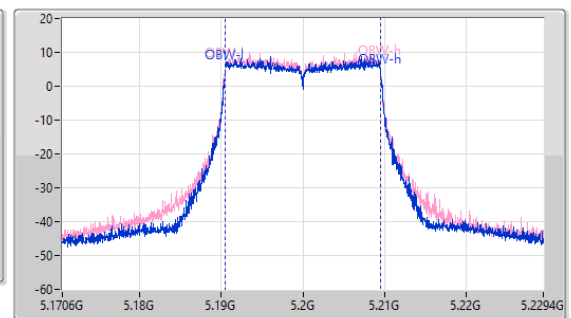
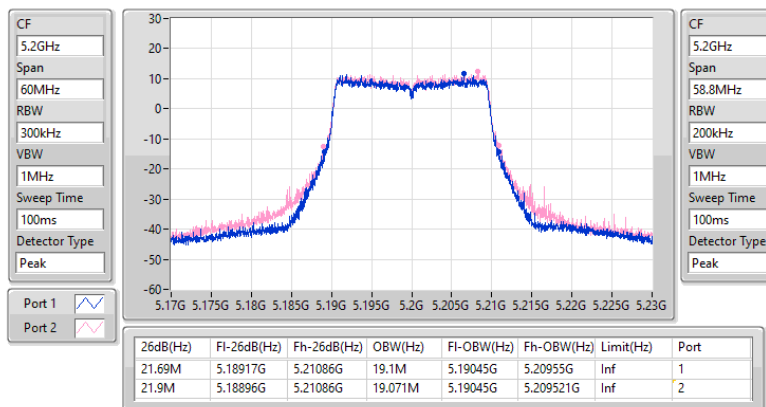
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5.15-5.25GHz_802.11ax HEW20_Nss1,(MCS0)_2TX 5200MHz

EBW

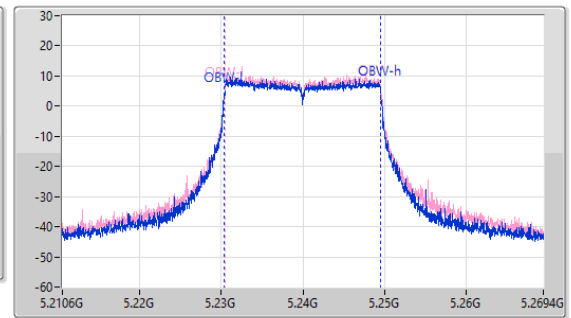
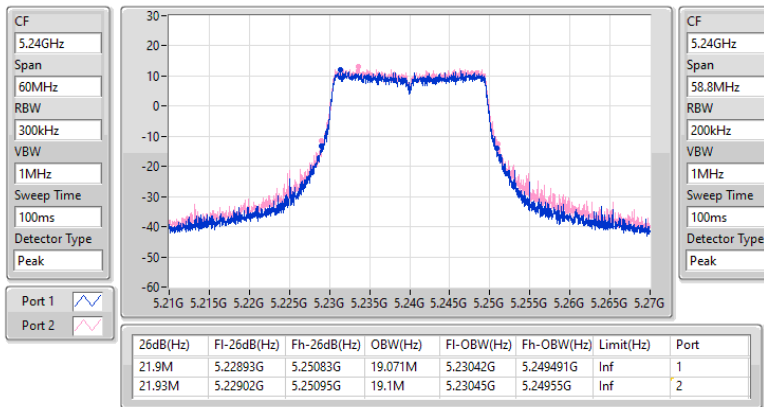
11/10/2022



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

EBW

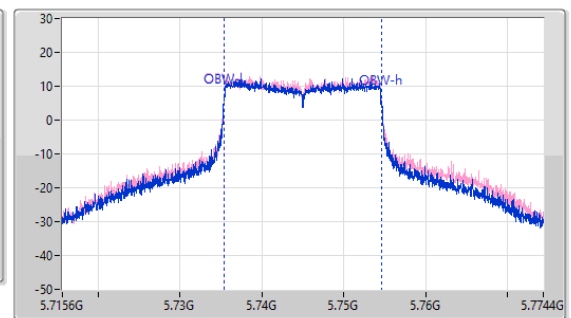
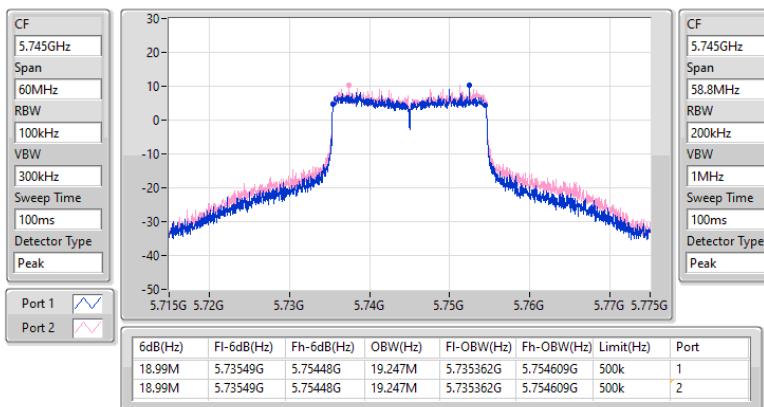
11/10/2022



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

EBW

11/10/2022

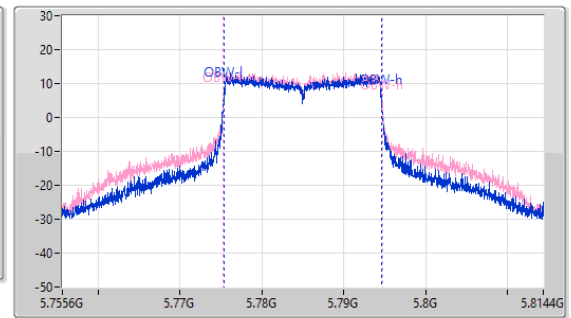
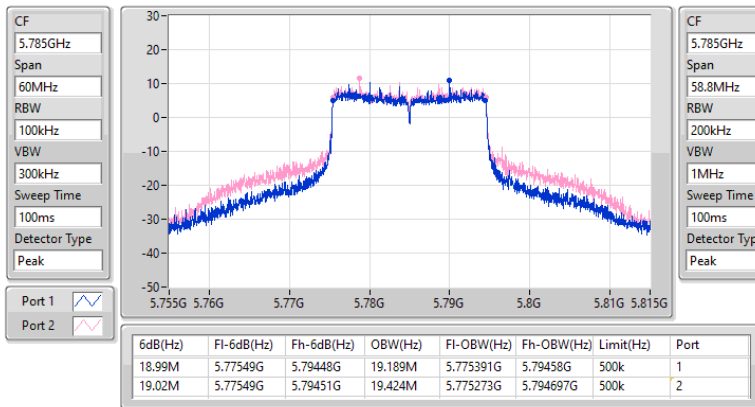


5.725-5.85GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

EBW

5785MHz

11/10/2022

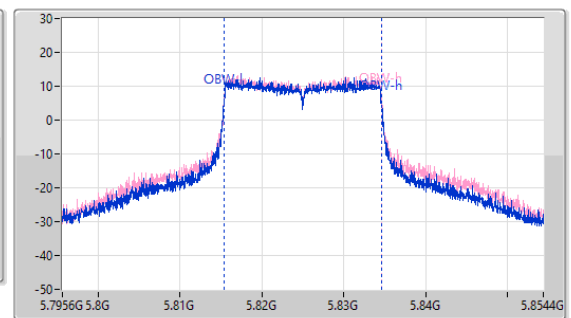
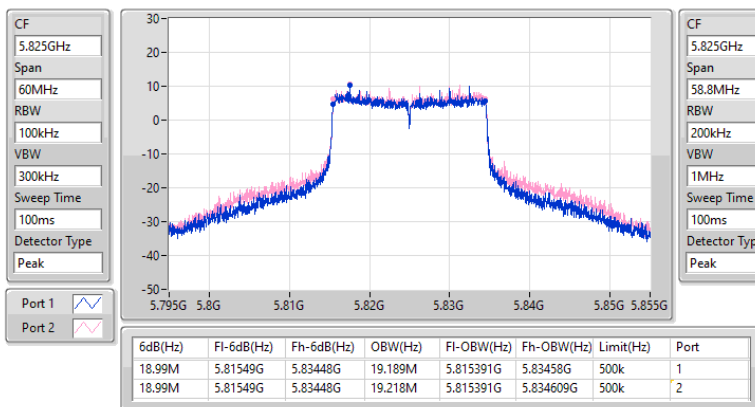


5.725-5.85GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

EBW

5825MHz

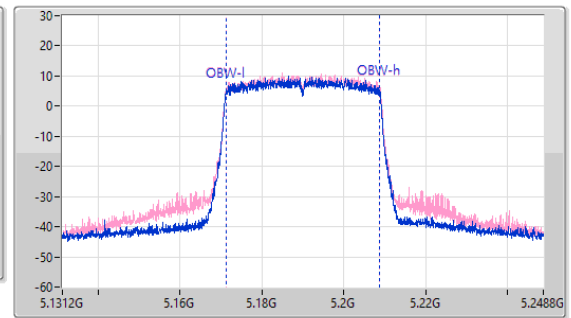
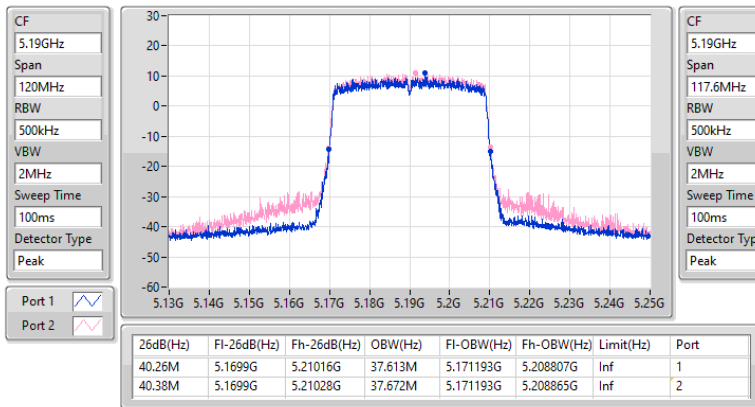
11/10/2022



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

EBW

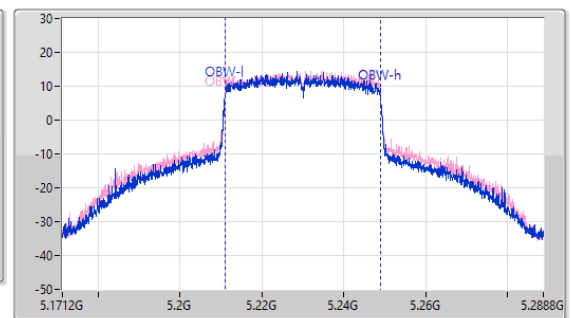
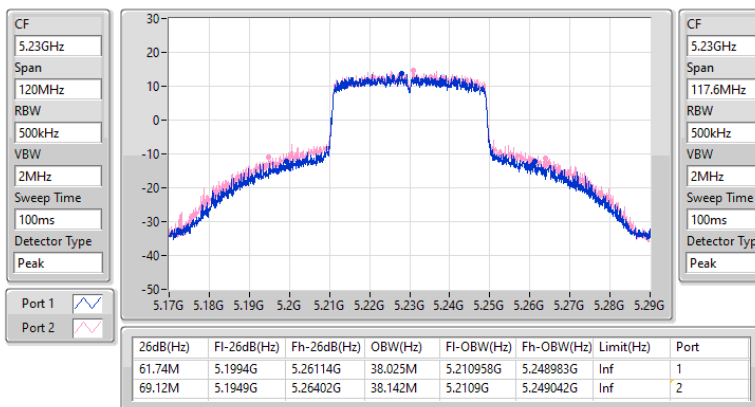
11/10/2022



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

EBW

11/10/2022

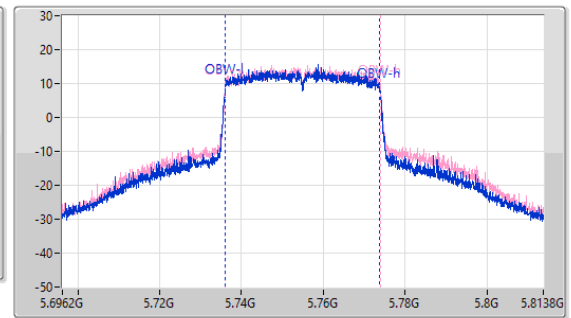
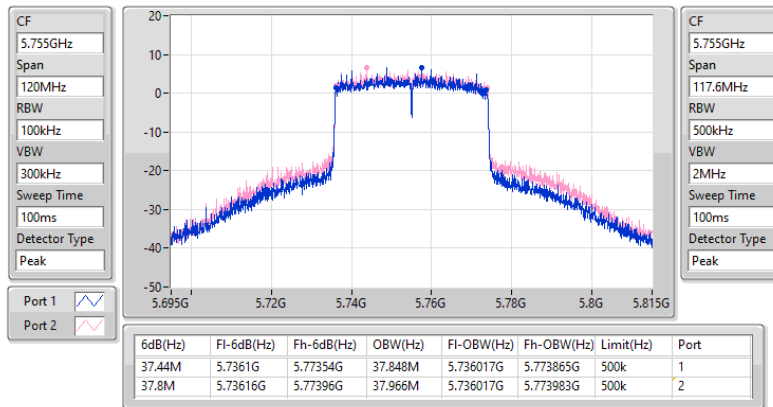


5.725-5.85GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

EBW

5755MHz

11/10/2022

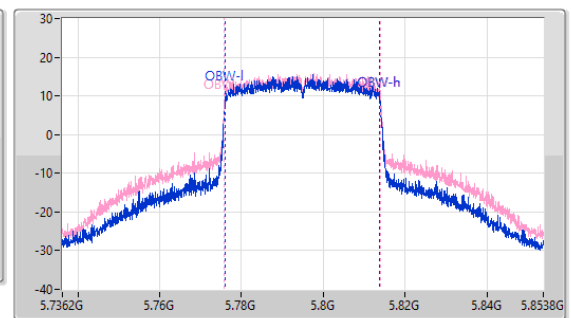
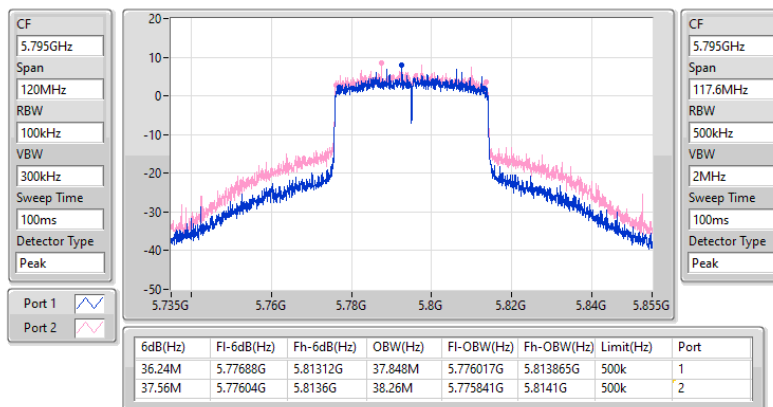


5.725-5.85GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

EBW

5795MHz

11/10/2022

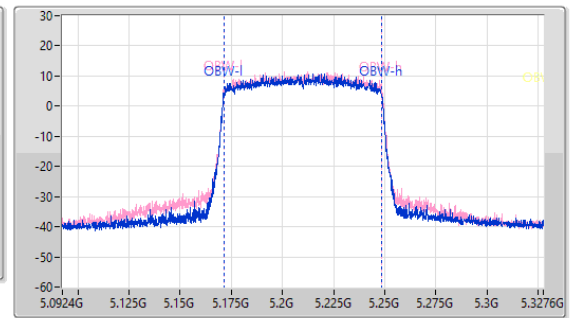
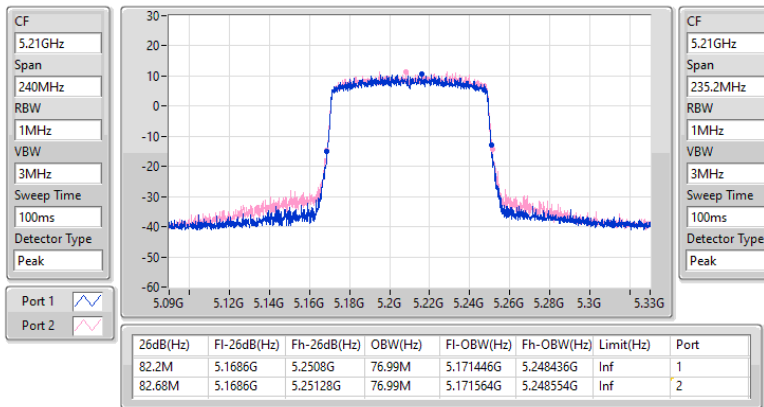


5.15-5.25GHz_802.11ax HEW80_Nss1,(MCS0)_2TX

5210MHz

EBW

11/10/2022

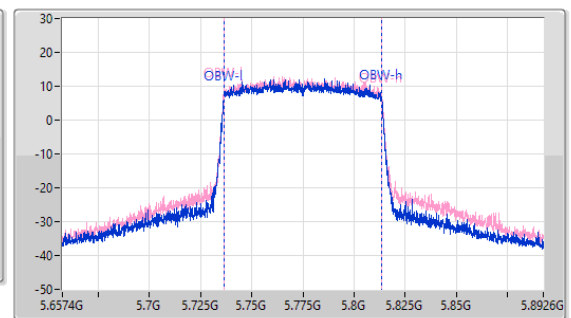
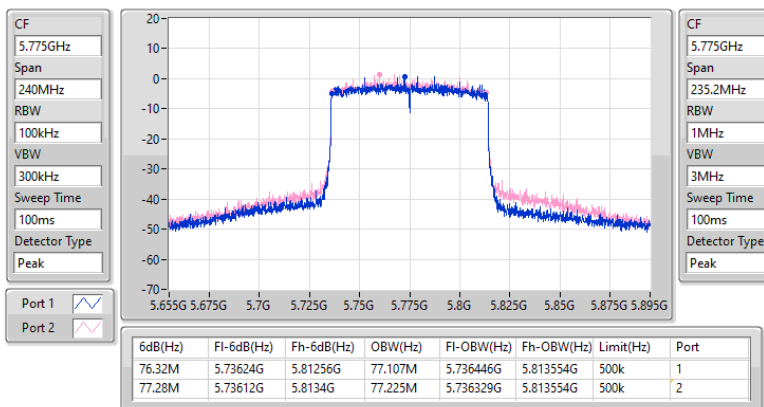


5.725-5.85GHz_802.11ax HEW80_Nss1,(MCS0)_2TX

5775MHz

EBW

11/10/2022



**Summary**

Mode	Total Power (dBm)	Total Power (W)	EIRP (dBm)	EIRP (W)
5.15-5.25GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	24.73	0.29717	29.71	0.93541
802.11n HT20_Nss1,(MCS0)_2TX	23.80	0.23988	28.78	0.75509
802.11n HT40_Nss1,(MCS0)_2TX	24.28	0.26792	29.26	0.84333
802.11ac VHT20_Nss1,(MCS0)_2TX	20.13	0.10304	25.11	0.32434
802.11ac VHT40_Nss1,(MCS0)_2TX	24.40	0.27542	29.38	0.86696
802.11ac VHT80_Nss1,(MCS0)_2TX	20.24	0.10568	25.22	0.33266
802.11ax HEW20_Nss1,(MCS0)_2TX	24.02	0.25235	29.00	0.79433
802.11ax HEW40_Nss1,(MCS0)_2TX	24.54	0.28445	29.52	0.89536
802.11ax HEW80_Nss1,(MCS0)_2TX	20.38	0.10914	25.36	0.34356
5.725-5.85GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	23.72	0.23550	28.70	0.74131
802.11n HT20_Nss1,(MCS0)_2TX	23.11	0.20464	28.09	0.64417
802.11n HT40_Nss1,(MCS0)_2TX	24.48	0.28054	29.46	0.88308
802.11ac VHT20_Nss1,(MCS0)_2TX	23.18	0.20797	28.16	0.65464
802.11ac VHT40_Nss1,(MCS0)_2TX	24.58	0.28708	29.56	0.90365
802.11ac VHT80_Nss1,(MCS0)_2TX	23.37	0.21727	28.35	0.68391
802.11ax HEW20_Nss1,(MCS0)_2TX	23.32	0.21478	28.30	0.67608
802.11ax HEW40_Nss1,(MCS0)_2TX	24.70	0.29512	29.68	0.92897
802.11ax HEW80_Nss1,(MCS0)_2TX	23.50	0.22387	28.48	0.70469

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	4.98	20.72	20.56	23.65	30.00	28.63	36.00
5200MHz	Pass	4.98	21.87	21.56	24.73	30.00	29.71	36.00
5240MHz	Pass	4.98	21.55	21.48	24.53	30.00	29.51	36.00
5745MHz	Pass	4.98	17.65	17.82	20.75	30.00	25.73	36.00
5785MHz	Pass	4.98	18.14	17.80	20.98	30.00	25.96	36.00
5825MHz	Pass	4.98	20.45	20.96	23.72	30.00	28.70	36.00
802.11n HT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5180MHz	Pass	4.98	19.54	19.38	22.47	30.00	27.45	36.00
5200MHz	Pass	4.98	20.79	20.38	23.60	30.00	28.58	36.00
5240MHz	Pass	4.98	20.84	20.74	23.80	30.00	28.78	36.00
5745MHz	Pass	4.98	18.07	18.22	21.16	30.00	26.14	36.00
5785MHz	Pass	4.98	19.18	19.09	22.15	30.00	27.13	36.00
5825MHz	Pass	4.98	19.76	20.41	23.11	30.00	28.09	36.00
802.11n HT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5190MHz	Pass	4.98	18.32	18.24	21.29	30.00	26.27	36.00
5230MHz	Pass	4.98	21.38	21.16	24.28	30.00	29.26	36.00
5755MHz	Pass	4.98	21.42	21.51	24.48	30.00	29.46	36.00
5795MHz	Pass	4.98	20.41	20.72	23.58	30.00	28.56	36.00
802.11ac VHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5180MHz	Pass	4.98	17.22	17.01	20.13	30.00	25.11	36.00
5200MHz	Pass	4.98	15.27	14.70	18.00	30.00	22.98	36.00
5240MHz	Pass	4.98	15.47	15.66	18.58	30.00	23.56	36.00
5745MHz	Pass	4.98	18.16	18.27	21.23	30.00	26.21	36.00
5785MHz	Pass	4.98	19.29	19.16	22.24	30.00	27.22	36.00
5825MHz	Pass	4.98	19.85	20.47	23.18	30.00	28.16	36.00
802.11ac VHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5190MHz	Pass	4.98	18.37	18.36	21.38	30.00	26.36	36.00
5230MHz	Pass	4.98	21.49	21.29	24.40	30.00	29.38	36.00
5755MHz	Pass	4.98	21.48	21.65	24.58	30.00	29.56	36.00
5795MHz	Pass	4.98	20.48	20.81	23.66	30.00	28.64	36.00
802.11ac VHT80_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5210MHz	Pass	4.98	17.37	17.09	20.24	30.00	25.22	36.00
5775MHz	Pass	4.98	20.12	20.59	23.37	30.00	28.35	36.00
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5180MHz	Pass	4.98	19.74	19.60	22.68	30.00	27.66	36.00
5200MHz	Pass	4.98	21.04	20.54	23.81	30.00	28.79	36.00
5240MHz	Pass	4.98	21.07	20.94	24.02	30.00	29.00	36.00
5745MHz	Pass	4.98	18.21	18.32	21.28	30.00	26.26	36.00
5785MHz	Pass	4.98	19.37	19.27	22.33	30.00	27.31	36.00
5825MHz	Pass	4.98	20.00	20.60	23.32	30.00	28.30	36.00
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5190MHz	Pass	4.98	18.52	18.41	21.48	30.00	26.46	36.00
5230MHz	Pass	4.98	21.62	21.44	24.54	30.00	29.52	36.00
5755MHz	Pass	4.98	21.63	21.74	24.70	30.00	29.68	36.00
5795MHz	Pass	4.98	20.61	20.96	23.80	30.00	28.78	36.00
802.11ax HEW80_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5210MHz	Pass	4.98	17.51	17.23	20.38	30.00	25.36	36.00
5775MHz	Pass	4.98	20.24	20.73	23.50	30.00	28.48	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	24.64	0.29107	29.62	0.91622
802.11n HT20_Nss1,(MCS0)_2TX	23.93	0.24717	28.91	0.77804
802.11n HT40_Nss1,(MCS0)_2TX	24.43	0.27733	29.41	0.87297
802.11ac VHT20_Nss1,(MCS0)_2TX	24.00	0.25119	28.98	0.79068
802.11ac VHT40_Nss1,(MCS0)_2TX	24.50	0.28184	29.48	0.88716
802.11ac VHT80_Nss1,(MCS0)_2TX	20.40	0.10965	25.38	0.34514
802.11ax HEW20_Nss1,(MCS0)_2TX	24.05	0.25410	29.03	0.79983
802.11ax HEW40_Nss1,(MCS0)_2TX	24.62	0.28973	29.60	0.91201
802.11ax HEW80_Nss1,(MCS0)_2TX	20.49	0.11194	25.47	0.35237
5.725-5.85GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	25.08	0.32211	29.70	0.93325
802.11n HT20_Nss1,(MCS0)_2TX	25.10	0.32359	29.72	0.93756
802.11n HT40_Nss1,(MCS0)_2TX	25.26	0.33574	29.88	0.97275
802.11ac VHT20_Nss1,(MCS0)_2TX	25.17	0.32885	29.79	0.95280
802.11ac VHT40_Nss1,(MCS0)_2TX	25.34	0.34198	29.96	0.99083
802.11ac VHT80_Nss1,(MCS0)_2TX	24.51	0.28249	29.13	0.81846
802.11ax HEW20_Nss1,(MCS0)_2TX	25.27	0.33651	29.89	0.97499
802.11ax HEW40_Nss1,(MCS0)_2TX	25.45	0.35075	30.07	1.01625
802.11ax HEW80_Nss1,(MCS0)_2TX	24.66	0.29242	29.28	0.84723



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	4.98	20.68	19.87	23.30	30.00	28.28	36.00
5200MHz	Pass	4.98	21.98	21.24	24.64	30.00	29.62	36.00
5240MHz	Pass	4.98	21.72	21.25	24.50	30.00	29.48	36.00
5745MHz	Pass	4.62	22.03	21.68	24.87	30.00	29.49	36.00
5785MHz	Pass	4.62	22.08	22.05	25.08	30.00	29.70	36.00
5825MHz	Pass	4.62	21.81	21.43	24.63	30.00	29.25	36.00
802.11n HT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5180MHz	Pass	4.98	21.22	20.44	23.86	30.00	28.84	36.00
5200MHz	Pass	4.98	20.93	20.38	23.67	30.00	28.65	36.00
5240MHz	Pass	4.98	21.14	20.69	23.93	30.00	28.91	36.00
5745MHz	Pass	4.62	21.63	22.08	24.87	30.00	29.49	36.00
5785MHz	Pass	4.62	22.07	22.10	25.10	30.00	29.72	36.00
5825MHz	Pass	4.62	21.04	21.87	24.49	30.00	29.11	36.00
802.11n HT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5190MHz	Pass	4.98	18.82	18.37	21.61	30.00	26.59	36.00
5230MHz	Pass	4.98	21.80	21.01	24.43	30.00	29.41	36.00
5755MHz	Pass	4.62	22.02	22.47	25.26	30.00	29.88	36.00
5795MHz	Pass	4.62	21.54	21.98	24.78	30.00	29.40	36.00
802.11ac VHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5180MHz	Pass	4.98	21.27	20.50	23.91	30.00	28.89	36.00
5200MHz	Pass	4.98	20.99	20.43	23.73	30.00	28.71	36.00
5240MHz	Pass	4.98	21.19	20.78	24.00	30.00	28.98	36.00
5745MHz	Pass	4.62	21.69	22.16	24.94	30.00	29.56	36.00
5785MHz	Pass	4.62	22.13	22.19	25.17	30.00	29.79	36.00
5825MHz	Pass	4.62	21.09	21.96	24.56	30.00	29.18	36.00
802.11ac VHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5190MHz	Pass	4.98	18.91	18.44	21.69	30.00	26.67	36.00
5230MHz	Pass	4.98	21.88	21.06	24.50	30.00	29.48	36.00
5755MHz	Pass	4.62	22.09	22.56	25.34	30.00	29.96	36.00
5795MHz	Pass	4.62	21.62	22.03	24.84	30.00	29.46	36.00
802.11ac VHT80_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5210MHz	Pass	4.98	17.69	17.06	20.40	30.00	25.38	36.00
5775MHz	Pass	4.62	21.39	21.61	24.51	30.00	29.13	36.00
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5180MHz	Pass	4.98	21.38	20.62	24.03	30.00	29.01	36.00
5200MHz	Pass	4.98	21.12	20.54	23.85	30.00	28.83	36.00
5240MHz	Pass	4.98	21.24	20.83	24.05	30.00	29.03	36.00
5745MHz	Pass	4.62	21.79	22.24	25.03	30.00	29.65	36.00
5785MHz	Pass	4.62	22.20	22.32	25.27	30.00	29.89	36.00
5825MHz	Pass	4.62	21.23	22.03	24.66	30.00	29.28	36.00
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5190MHz	Pass	4.98	19.06	18.51	21.80	30.00	26.78	36.00
5230MHz	Pass	4.98	21.99	21.20	24.62	30.00	29.60	36.00
5755MHz	Pass	4.62	22.22	22.65	25.45	30.00	30.07	36.00
5795MHz	Pass	4.62	21.67	22.10	24.90	30.00	29.52	36.00
802.11ax HEW80_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5210MHz	Pass	4.98	17.82	17.12	20.49	30.00	25.47	36.00
5775MHz	Pass	4.62	21.54	21.75	24.66	30.00	29.28	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	22.73	0.18750	27.35	0.54325
802.11n HT20_Nss1,(MCS0)_2TX	22.19	0.16558	26.81	0.47973
802.11n HT40_Nss1,(MCS0)_2TX	24.54	0.28445	29.16	0.82414
802.11ac VHT20_Nss1,(MCS0)_2TX	22.16	0.16444	26.78	0.47643
802.11ac VHT40_Nss1,(MCS0)_2TX	24.53	0.28379	29.15	0.82224
802.11ac VHT80_Nss1,(MCS0)_2TX	20.41	0.10990	25.03	0.31842
802.11ax HEW20_Nss1,(MCS0)_2TX	22.71	0.18664	27.33	0.54075
802.11ax HEW40_Nss1,(MCS0)_2TX	24.55	0.28510	29.17	0.82604
802.11ax HEW80_Nss1,(MCS0)_2TX	20.66	0.11641	25.28	0.33729
5.725-5.85GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	25.50	0.35481	30.12	1.02802
802.11n HT20_Nss1,(MCS0)_2TX	25.43	0.34914	30.05	1.01158
802.11n HT40_Nss1,(MCS0)_2TX	25.90	0.38905	30.52	1.12720
802.11ac VHT20_Nss1,(MCS0)_2TX	25.41	0.34754	30.03	1.00693
802.11ac VHT40_Nss1,(MCS0)_2TX	25.89	0.38815	30.51	1.12460
802.11ac VHT80_Nss1,(MCS0)_2TX	22.10	0.16218	26.72	0.46989
802.11ax HEW20_Nss1,(MCS0)_2TX	25.83	0.38282	30.45	1.10917
802.11ax HEW40_Nss1,(MCS0)_2TX	26.01	0.39902	30.63	1.15611
802.11ax HEW80_Nss1,(MCS0)_2TX	22.29	0.16943	26.91	0.49091

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	4.62	18.11	19.05	21.62	30.00	26.24	36.00
5200MHz	Pass	4.62	19.36	20.06	22.73	30.00	27.35	36.00
5240MHz	Pass	4.62	17.05	18.21	20.68	30.00	25.30	36.00
5745MHz	Pass	4.62	21.69	22.36	25.05	30.00	29.67	36.00
5785MHz	Pass	4.62	22.16	22.80	25.50	30.00	30.12	36.00
5825MHz	Pass	4.62	21.75	22.54	25.17	30.00	29.79	36.00
802.11n HT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5180MHz	Pass	4.62	17.16	18.44	20.86	30.00	25.48	36.00
5200MHz	Pass	4.62	17.76	18.39	21.10	30.00	25.72	36.00
5240MHz	Pass	4.62	18.61	19.68	22.19	30.00	26.81	36.00
5745MHz	Pass	4.62	21.70	22.25	24.99	30.00	29.61	36.00
5785MHz	Pass	4.62	22.08	22.73	25.43	30.00	30.05	36.00
5825MHz	Pass	4.62	21.73	22.45	25.12	30.00	29.74	36.00
802.11n HT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5190MHz	Pass	4.62	16.97	17.83	20.43	30.00	25.05	36.00
5230MHz	Pass	4.62	21.17	21.87	24.54	30.00	29.16	36.00
5755MHz	Pass	4.62	21.62	22.42	25.05	30.00	29.67	36.00
5795MHz	Pass	4.62	22.38	23.35	25.90	30.00	30.52	36.00
802.11ac VHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5180MHz	Pass	4.62	17.41	18.26	20.87	30.00	25.49	36.00
5200MHz	Pass	4.62	17.63	18.42	21.05	30.00	25.67	36.00
5240MHz	Pass	4.62	18.63	19.61	22.16	30.00	26.78	36.00
5745MHz	Pass	4.62	21.60	22.27	24.96	30.00	29.58	36.00
5785MHz	Pass	4.62	22.00	22.76	25.41	30.00	30.03	36.00
5825MHz	Pass	4.62	21.59	22.48	25.07	30.00	29.69	36.00
802.11ac VHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5190MHz	Pass	4.62	17.00	17.82	20.44	30.00	25.06	36.00
5230MHz	Pass	4.62	21.12	21.89	24.53	30.00	29.15	36.00
5755MHz	Pass	4.62	21.70	22.45	25.10	30.00	29.72	36.00
5795MHz	Pass	4.62	22.38	23.33	25.89	30.00	30.51	36.00
802.11ac VHT80_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5210MHz	Pass	4.62	16.92	17.83	20.41	30.00	25.03	36.00
5775MHz	Pass	4.62	18.68	19.46	22.10	30.00	26.72	36.00
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5180MHz	Pass	4.62	17.96	18.82	21.42	30.00	26.04	36.00
5200MHz	Pass	4.62	18.29	18.95	21.64	30.00	26.26	36.00
5240MHz	Pass	4.62	19.13	20.20	22.71	30.00	27.33	36.00
5745MHz	Pass	4.62	22.04	22.70	25.39	30.00	30.01	36.00
5785MHz	Pass	4.62	22.48	23.13	25.83	30.00	30.45	36.00
5825MHz	Pass	4.62	22.52	21.89	25.23	30.00	29.85	36.00
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5190MHz	Pass	4.62	17.14	18.06	20.63	30.00	25.25	36.00
5230MHz	Pass	4.62	21.16	21.88	24.55	30.00	29.17	36.00
5755MHz	Pass	4.62	21.77	22.53	25.18	30.00	29.80	36.00
5795MHz	Pass	4.62	22.48	23.46	26.01	30.00	30.63	36.00
802.11ax HEW80_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5210MHz	Pass	4.62	17.30	17.98	20.66	30.00	25.28	36.00
5775MHz	Pass	4.62	18.84	19.68	22.29	30.00	26.91	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	23.90	0.24547	31.69	1.47571
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	24.43	0.27733	32.22	1.66725
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	20.25	0.10593	28.04	0.63680
5.725-5.85GHz	-	-	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	23.19	0.20845	30.98	1.25314
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	24.59	0.28774	32.38	1.72982
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	23.37	0.21727	31.16	1.30617

**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	7.79	19.64	19.49	22.58	28.21	30.37	36.00
5200MHz	Pass	7.79	20.89	20.44	23.68	28.21	31.47	36.00
5240MHz	Pass	7.79	20.97	20.80	23.90	28.21	31.69	36.00
5745MHz	Pass	7.79	18.11	18.21	21.17	28.21	28.96	36.00
5785MHz	Pass	7.79	19.26	19.17	22.23	28.21	30.02	36.00
5825MHz	Pass	7.79	19.87	20.47	23.19	28.21	30.98	36.00
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5190MHz	Pass	7.79	18.38	18.26	21.33	28.21	29.12	36.00
5230MHz	Pass	7.79	21.49	21.34	24.43	28.21	32.22	36.00
5755MHz	Pass	7.79	21.52	21.63	24.59	28.21	32.38	36.00
5795MHz	Pass	7.79	20.48	20.86	23.68	28.21	31.47	36.00
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5210MHz	Pass	7.79	17.39	17.09	20.25	28.21	28.04	36.00
5775MHz	Pass	7.79	20.11	20.60	23.37	28.21	31.16	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	23.93	0.24717	31.72	1.48594
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	24.50	0.28184	32.29	1.69434
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	24.47	0.27990	32.26	1.68267
5.725-5.85GHz	-	-	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	25.14	0.32659	32.58	1.81134
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	25.32	0.34041	32.76	1.88799
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	24.52	0.28314	31.96	1.57036



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	7.79	21.25	20.48	23.89	28.21	31.68	36.00
5200MHz	Pass	7.79	19.85	19.20	22.55	28.21	30.34	36.00
5240MHz	Pass	7.79	21.11	20.73	23.93	28.21	31.72	36.00
5745MHz	Pass	7.44	21.64	22.13	24.90	28.56	32.34	36.00
5785MHz	Pass	7.44	22.08	22.18	25.14	28.56	32.58	36.00
5825MHz	Pass	7.44	21.11	21.91	24.54	28.56	31.98	36.00
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5190MHz	Pass	7.79	18.93	18.41	21.69	28.21	29.48	36.00
5230MHz	Pass	7.79	21.85	21.09	24.50	28.21	32.29	36.00
5755MHz	Pass	7.44	22.07	22.53	25.32	28.56	32.76	36.00
5795MHz	Pass	7.44	21.54	21.96	24.77	28.56	32.21	36.00
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5210MHz	Pass	7.79	21.74	21.16	24.47	28.21	32.26	36.00
5775MHz	Pass	7.44	21.40	21.61	24.52	28.56	31.96	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	22.59	0.18155	30.03	1.00693
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	24.41	0.27606	31.85	1.53109
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	20.54	0.11324	27.98	0.62806
5.725-5.85GHz	-	-	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	25.73	0.37411	33.17	2.07491
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	25.89	0.38815	33.33	2.15278
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	22.15	0.16406	29.59	0.90991

**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	7.44	17.83	18.67	21.28	28.56	28.72	36.00
5200MHz	Pass	7.44	18.14	18.82	21.50	28.56	28.94	36.00
5240MHz	Pass	7.44	19.00	20.09	22.59	28.56	30.03	36.00
5745MHz	Pass	7.44	21.89	22.60	25.27	28.56	32.71	36.00
5785MHz	Pass	7.44	22.38	23.03	25.73	28.56	33.17	36.00
5825MHz	Pass	7.44	21.97	19.68	23.98	28.56	31.42	36.00
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5190MHz	Pass	7.44	17.00	17.93	20.50	28.56	27.94	36.00
5230MHz	Pass	7.44	21.05	21.73	24.41	28.56	31.85	36.00
5755MHz	Pass	7.44	21.55	22.33	24.97	28.56	32.41	36.00
5795MHz	Pass	7.44	22.38	23.33	25.89	28.56	33.33	36.00
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5210MHz	Pass	7.44	17.19	17.84	20.54	28.56	27.98	36.00
5775MHz	Pass	7.44	18.72	19.53	22.15	28.56	29.59	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	11.48	19.27
802.11n HT20_Nss1,(MCS0)_2TX	10.63	18.42
802.11n HT40_Nss1,(MCS0)_2TX	8.05	15.84
802.11ac VHT20_Nss1,(MCS0)_2TX	10.37	18.16
802.11ac VHT40_Nss1,(MCS0)_2TX	8.28	16.07
802.11ac VHT80_Nss1,(MCS0)_2TX	1.04	8.83
802.11ax HEW20_Nss1,(MCS0)_2TX	10.19	17.98
802.11ax HEW40_Nss1,(MCS0)_2TX	7.85	15.64
802.11ax HEW80_Nss1,(MCS0)_2TX	0.86	8.65
5.725-5.85GHz	-	-
802.11a_Nss1,(6Mbps)_2TX	8.71	16.50
802.11n HT20_Nss1,(MCS0)_2TX	7.35	15.14
802.11n HT40_Nss1,(MCS0)_2TX	6.01	13.80
802.11ac VHT20_Nss1,(MCS0)_2TX	7.35	15.14
802.11ac VHT40_Nss1,(MCS0)_2TX	6.34	14.13
802.11ac VHT80_Nss1,(MCS0)_2TX	2.04	9.83
802.11ax HEW20_Nss1,(MCS0)_2TX	7.76	15.55
802.11ax HEW40_Nss1,(MCS0)_2TX	6.32	14.11
802.11ax HEW80_Nss1,(MCS0)_2TX	2.19	9.98

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	7.79	7.44	7.50	10.41	15.21	18.20	23.00
5200MHz	Pass	7.79	8.74	8.36	11.48	15.21	19.27	23.00
5240MHz	Pass	7.79	8.14	8.40	11.16	15.21	18.95	23.00
5745MHz	Pass	7.79	2.84	3.15	5.86	28.21	13.65	36.00
5785MHz	Pass	7.79	3.34	3.06	6.01	28.21	13.80	36.00
5825MHz	Pass	7.79	5.51	6.11	8.71	28.21	16.50	36.00
802.11n HT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5180MHz	Pass	7.79	6.25	6.50	9.32	15.21	17.11	23.00
5200MHz	Pass	7.79	7.80	7.60	10.52	15.21	18.31	23.00
5240MHz	Pass	7.79	7.41	7.95	10.63	15.21	18.42	23.00
5745MHz	Pass	7.79	1.97	3.48	5.57	28.21	13.36	36.00
5785MHz	Pass	7.79	2.75	4.79	6.64	28.21	14.43	36.00
5825MHz	Pass	7.79	2.66	5.73	7.35	28.21	15.14	36.00
802.11n HT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5190MHz	Pass	7.79	2.12	2.07	5.06	15.21	12.85	23.00
5230MHz	Pass	7.79	4.98	5.49	8.05	15.21	15.84	23.00
5755MHz	Pass	7.79	2.35	4.00	6.01	28.21	13.80	36.00
5795MHz	Pass	7.79	0.00	3.32	4.83	28.21	12.62	36.00
802.11ac VHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5180MHz	Pass	7.79	6.46	6.52	9.32	15.21	17.11	23.00
5200MHz	Pass	7.79	7.39	7.27	10.26	15.21	18.05	23.00
5240MHz	Pass	7.79	7.48	7.85	10.37	15.21	18.16	23.00
5745MHz	Pass	7.79	2.06	3.17	5.43	28.21	13.22	36.00
5785MHz	Pass	7.79	2.30	4.69	6.58	28.21	14.37	36.00
5825MHz	Pass	7.79	2.41	5.77	7.35	28.21	15.14	36.00
802.11ac VHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5190MHz	Pass	7.79	2.50	2.58	5.36	15.21	13.15	23.00
5230MHz	Pass	7.79	5.28	5.79	8.28	15.21	16.07	23.00
5755MHz	Pass	7.79	2.61	4.23	6.34	28.21	14.13	36.00
5795MHz	Pass	7.79	0.25	3.43	5.10	28.21	12.89	36.00
802.11ac VHT80_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5210MHz	Pass	7.79	-1.81	-1.81	1.04	15.21	8.83	23.00
5775MHz	Pass	7.79	-2.31	0.27	2.04	28.21	9.83	36.00
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5180MHz	Pass	7.79	5.76	5.92	8.74	15.21	16.53	23.00
5200MHz	Pass	7.79	7.08	7.05	10.00	15.21	17.79	23.00
5240MHz	Pass	7.79	7.21	7.36	10.19	15.21	17.98	23.00
5745MHz	Pass	7.79	2.77	2.79	5.66	28.21	13.45	36.00
5785MHz	Pass	7.79	3.94	4.00	6.81	28.21	14.60	36.00
5825MHz	Pass	7.79	4.40	5.23	7.76	28.21	15.55	36.00
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5190MHz	Pass	7.79	1.88	1.81	4.74	15.21	12.53	23.00
5230MHz	Pass	7.79	5.14	5.07	7.85	15.21	15.64	23.00
5755MHz	Pass	7.79	3.27	3.51	6.32	28.21	14.11	36.00
5795MHz	Pass	7.79	2.29	2.77	5.45	28.21	13.24	36.00
802.11ax HEW80_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5210MHz	Pass	7.79	-1.85	-2.35	0.86	15.21	8.65	23.00
5775MHz	Pass	7.79	-0.78	-0.51	2.19	28.21	9.98	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;

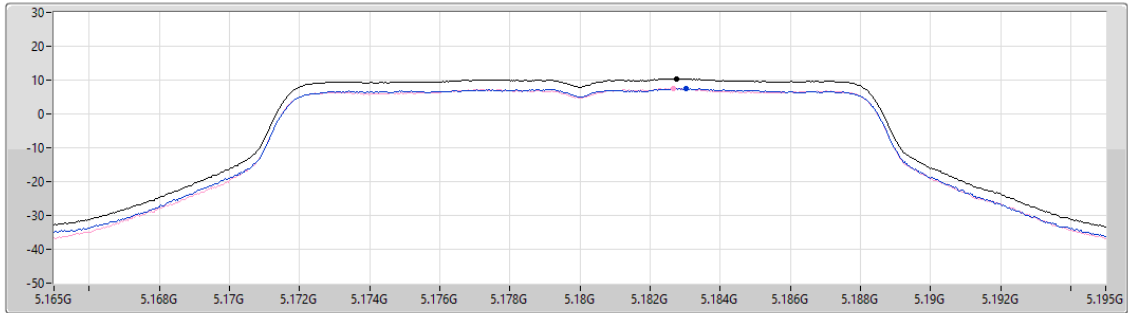
5.15-5.25GHz_802.11a_Nss1,(6Mbps)_2TX

5180MHz

PSD

09/10/2022

CF
5.18GHz
Span
30MHz
RBW
1MHz
VBW
3MHz
Sweep Time
20ms
Detector Type
RMS



Sum
Port 1
Port 2

Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
10.41	10.41	7.44	7.50

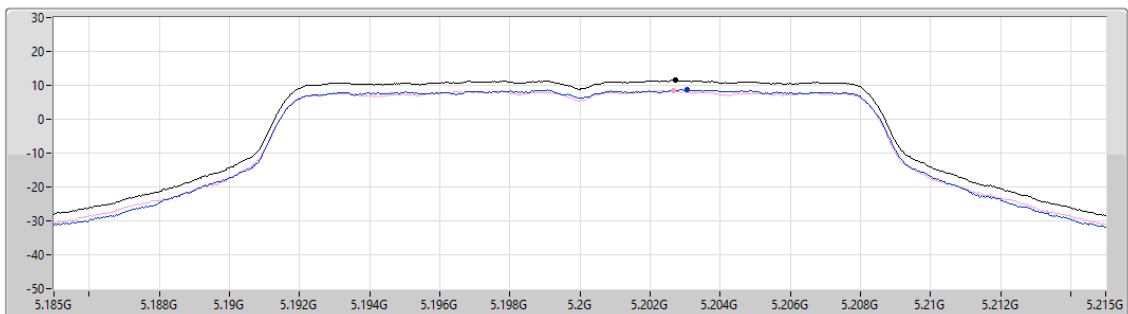
5.15-5.25GHz_802.11a_Nss1,(6Mbps)_2TX

5200MHz

PSD

09/10/2022

CF
5.2GHz
Span
30MHz
RBW
1MHz
VBW
3MHz
Sweep Time
20ms
Detector Type
RMS



Sum
Port 1
Port 2

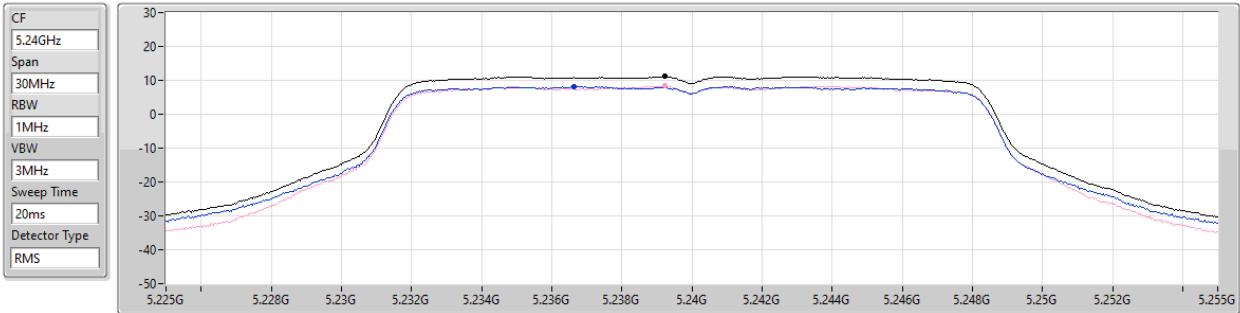
Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
11.48	11.48	8.74	8.36

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

5240MHz

PSD

09/10/2022



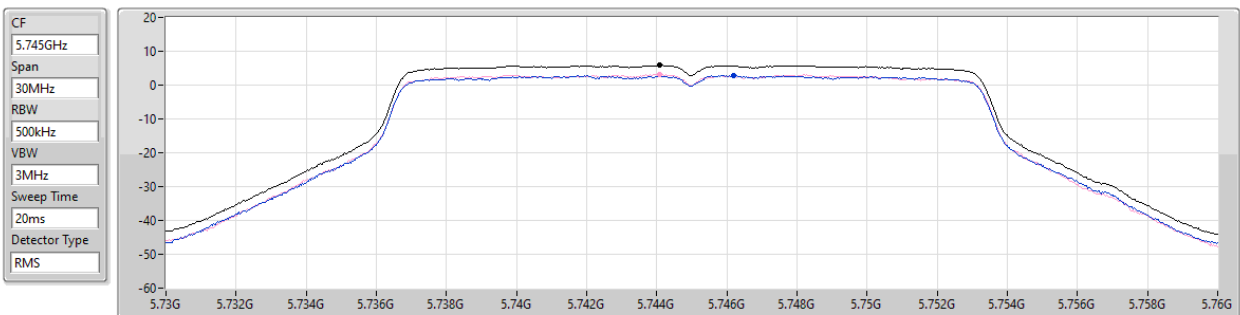
Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
11.16	11.16	8.14	8.40

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

5745MHz

PSD

09/10/2022



Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
5.86	5.86	2.84	3.15

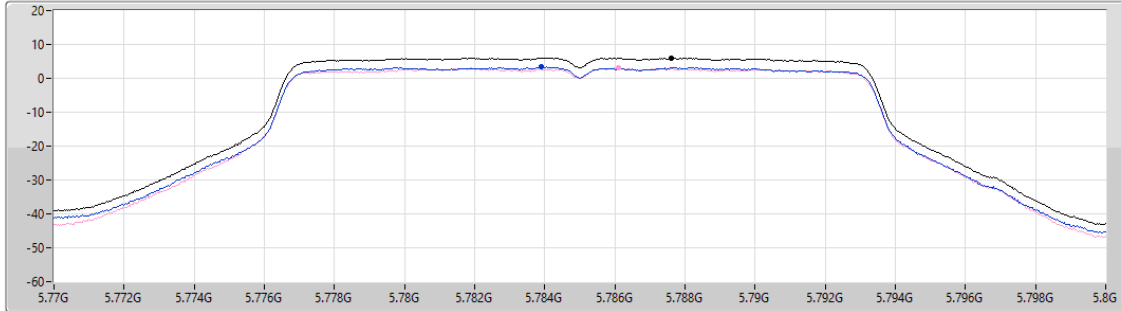
5.725-5.85GHz_802.11a_Nss1,(6Mbps)_2TX

5785MHz

PSD

09/10/2022

CF
5.785GHz
Span
30MHz
RBW
500kHz
VBW
3MHz
Sweep Time
20ms
Detector Type
RMS



Sum
Port 1
Port 2

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
6.01	6.01	3.34	3.06

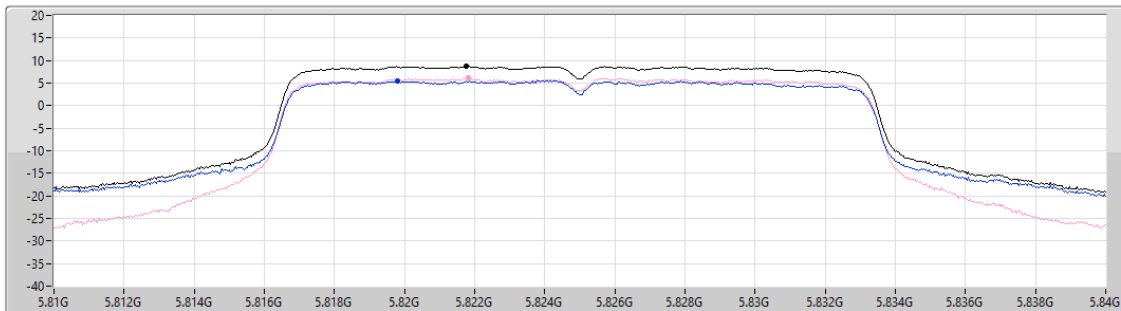
5.725-5.85GHz_802.11a_Nss1,(6Mbps)_2TX

5825MHz

PSD

09/10/2022

CF
5.825GHz
Span
30MHz
RBW
500kHz
VBW
3MHz
Sweep Time
20ms
Detector Type
RMS



Sum
Port 1
Port 2

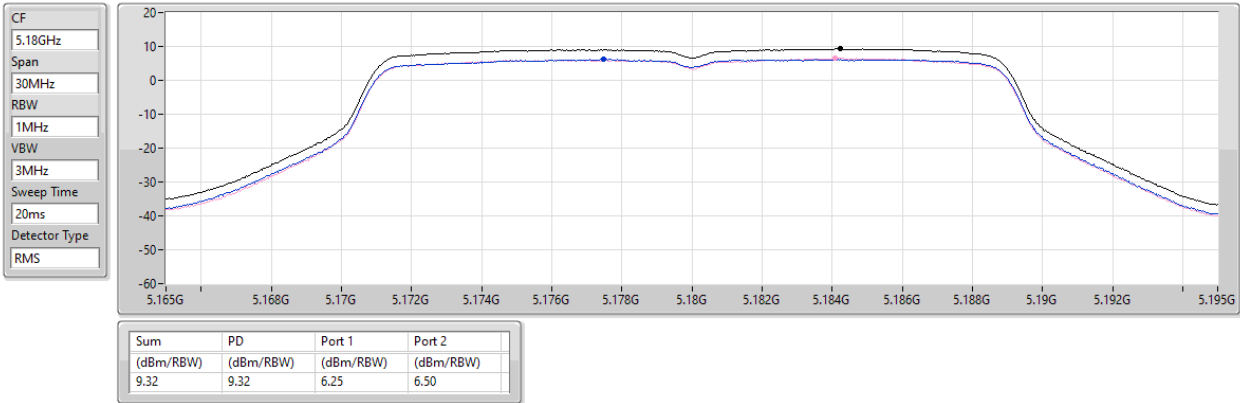
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
8.71	8.71	5.51	6.11

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

5180MHz

PSD

09/10/2022

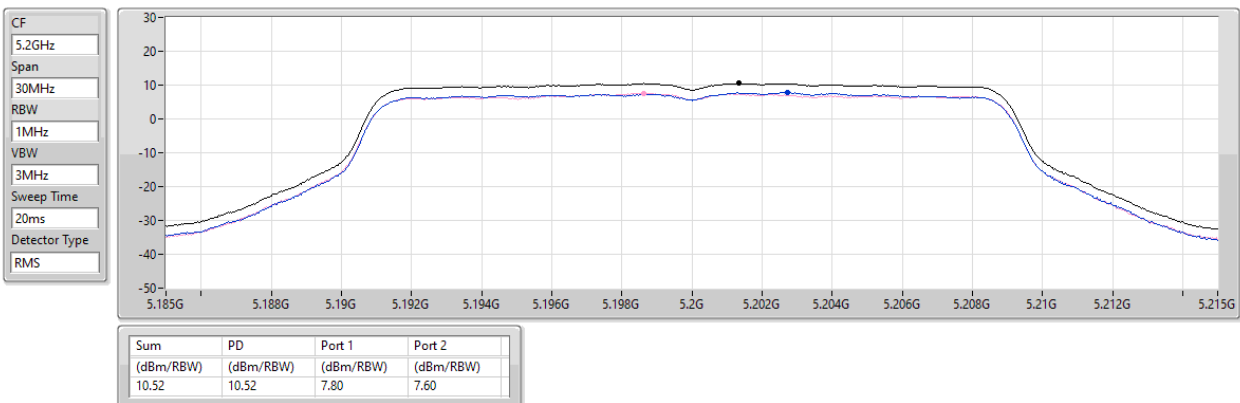


5.15-5.25GHz_802.11n HT20_Nss1,(MCS0)_2TX

5200MHz

PSD

09/10/2022

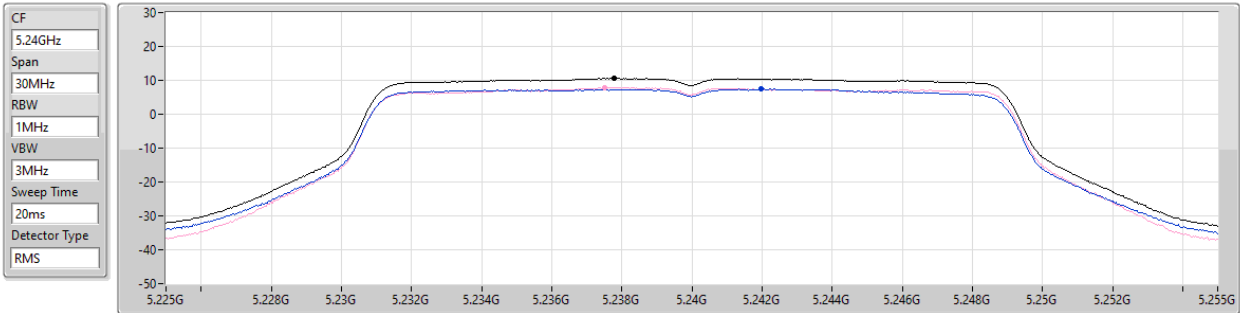


5.15-5.25GHz_802.11n HT20_Nss1,(MCS0)_2TX

5240MHz

PSD

09/10/2022



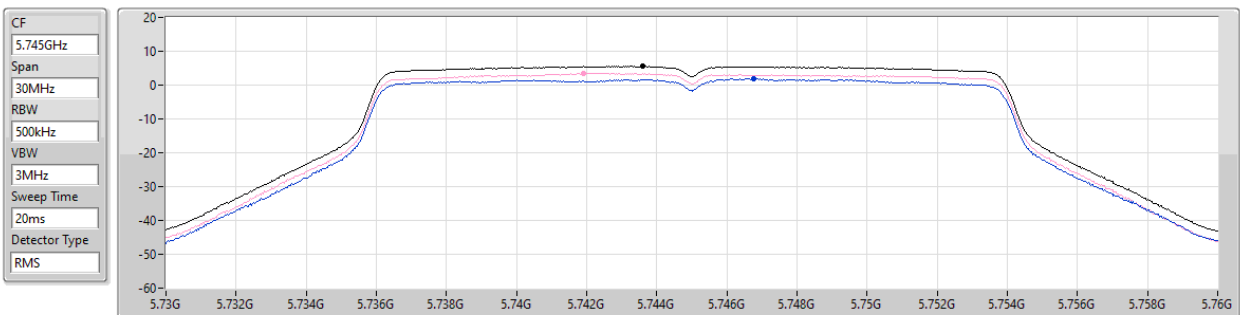
Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
10.63	10.63	7.41	7.95

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

5745MHz

PSD

09/10/2022



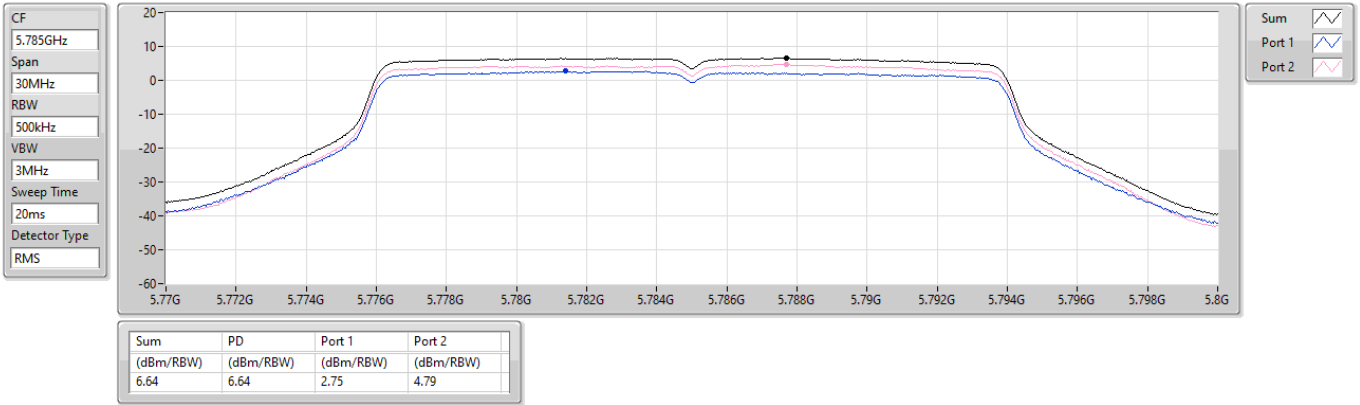
Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
5.57	5.57	1.97	3.48

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

5785MHz

PSD

09/10/2022

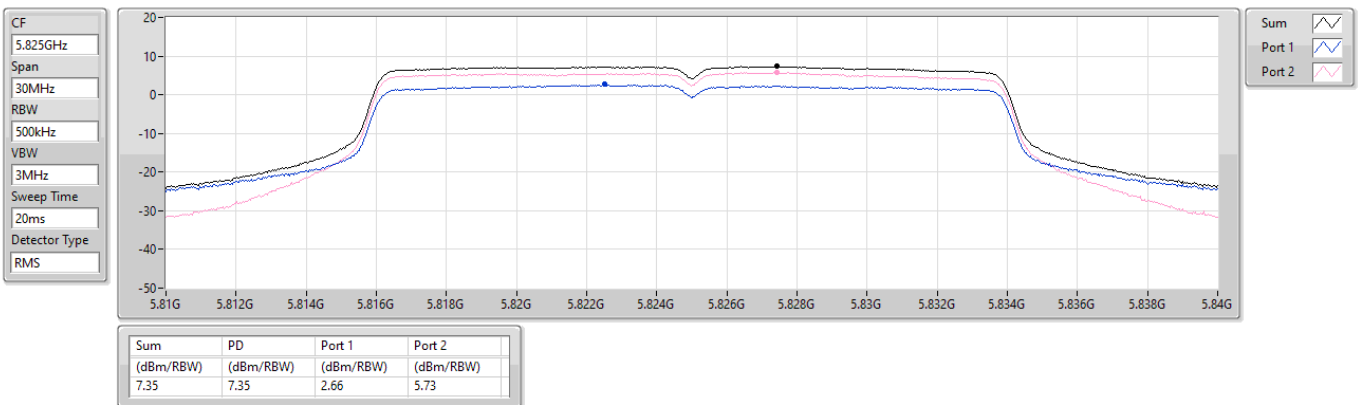


5.725-5.85GHz_802.11n HT20_Nss1,(MCS0)_2TX

5825MHz

PSD

09/10/2022

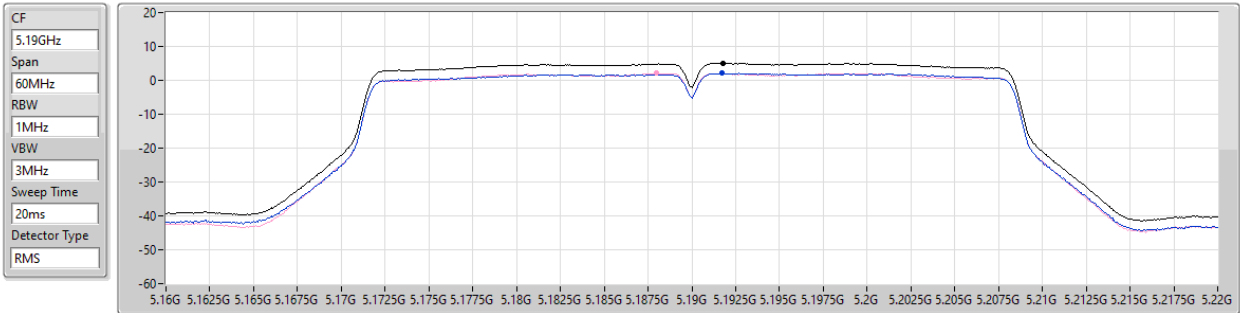


5.15-5.25GHz_802.11n HT40_Nss1,(MCS0)_2TX

5190MHz

PSD

09/10/2022



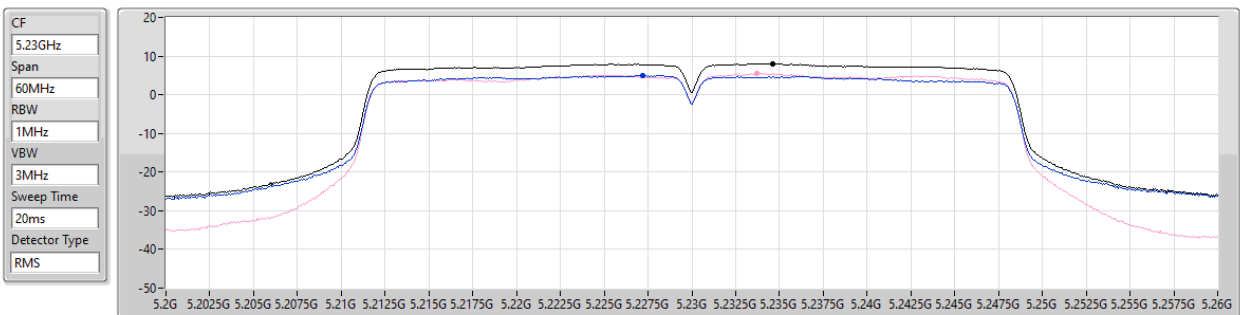
Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
5.06	5.06	2.12	2.07

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

5230MHz

PSD

09/10/2022



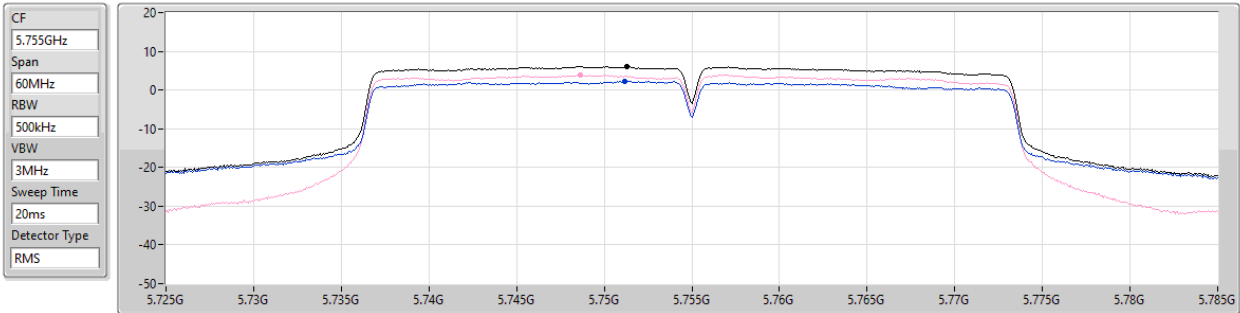
Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
8.05	8.05	4.98	5.49

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

5755MHz

PSD

09/10/2022



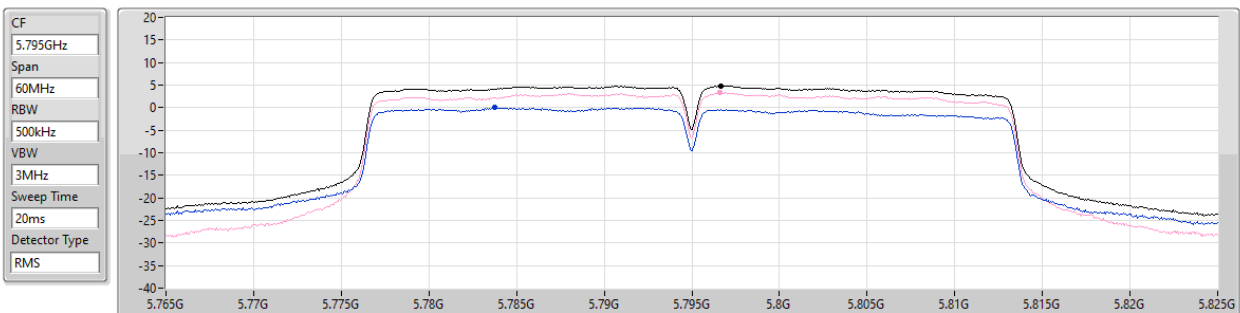
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
6.01	6.01	2.35	4.00

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

5795MHz

PSD

09/10/2022



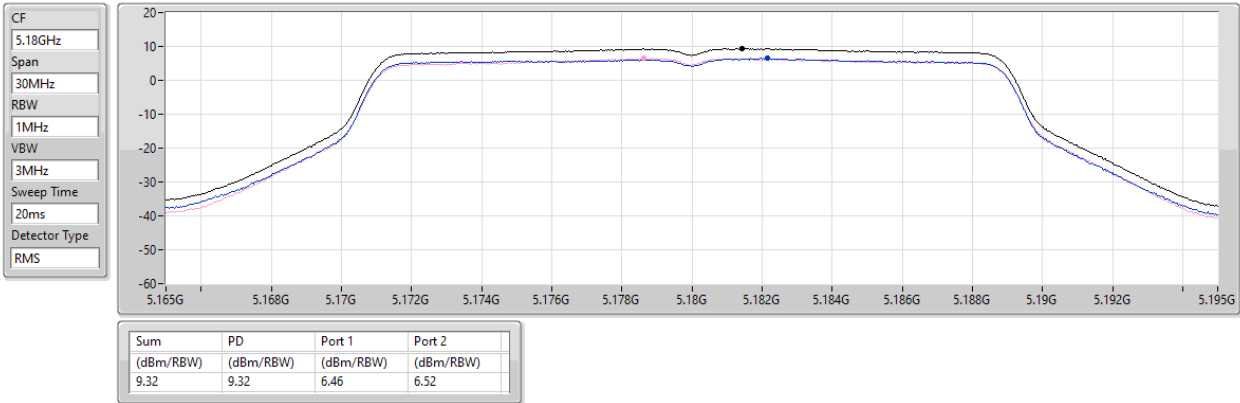
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
4.83	4.83	-0.00	3.32

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

5180MHz

PSD

09/10/2022

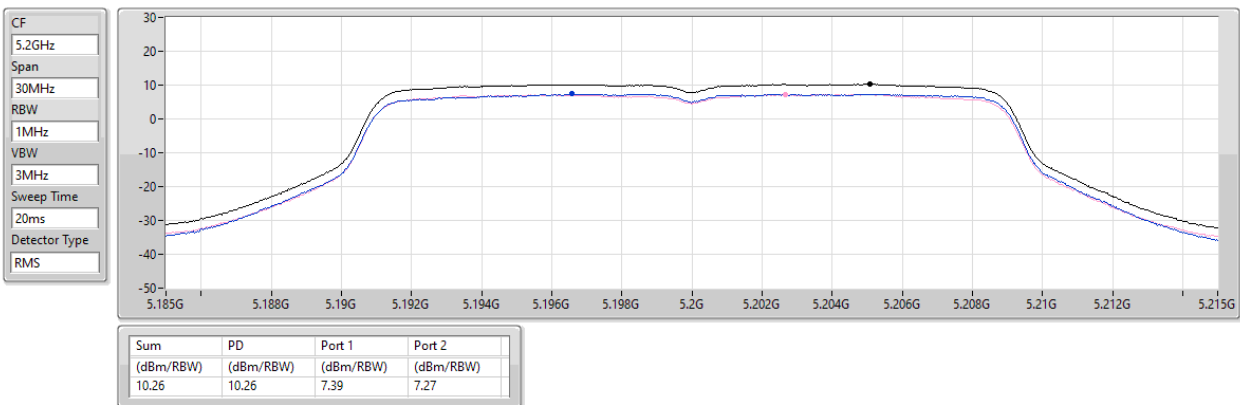


5.15-5.25GHz_802.11ac VHT20_Nss1,(MCS0)_2TX

5200MHz

PSD

09/10/2022

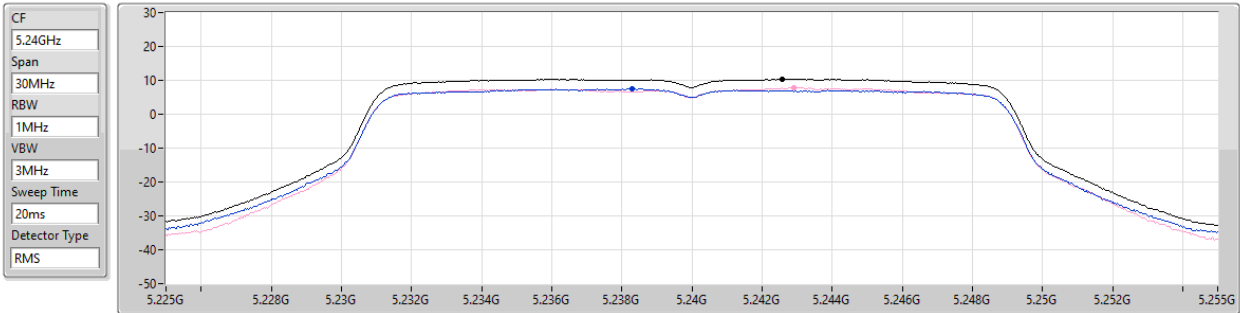


5.15-5.25GHz_802.11ac VHT20_Nss1,(MCS0)_2TX

5240MHz

PSD

09/10/2022



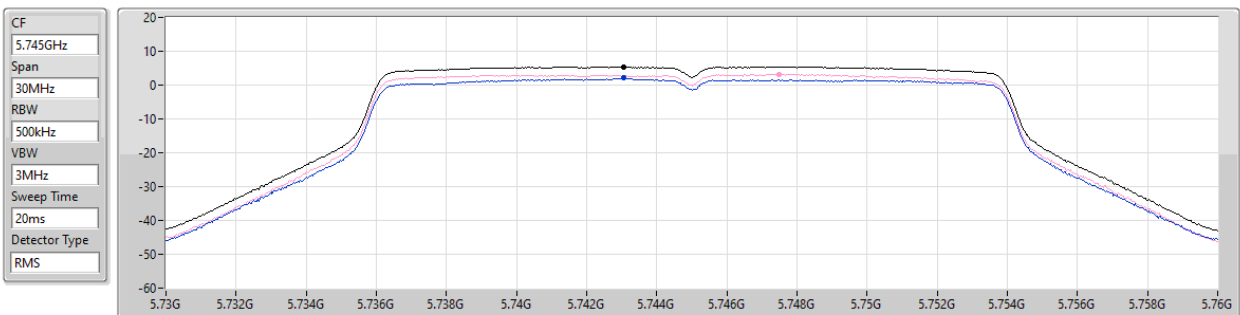
Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
10.37	10.37	7.48	7.85

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

5745MHz

PSD

09/10/2022



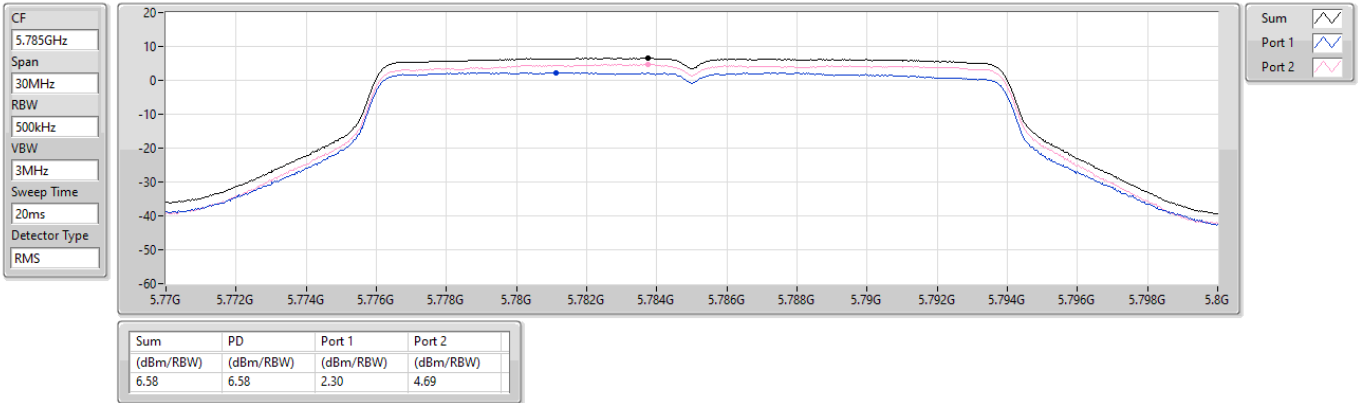
Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
5.43	5.43	2.06	3.17

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

5785MHz

PSD

09/10/2022

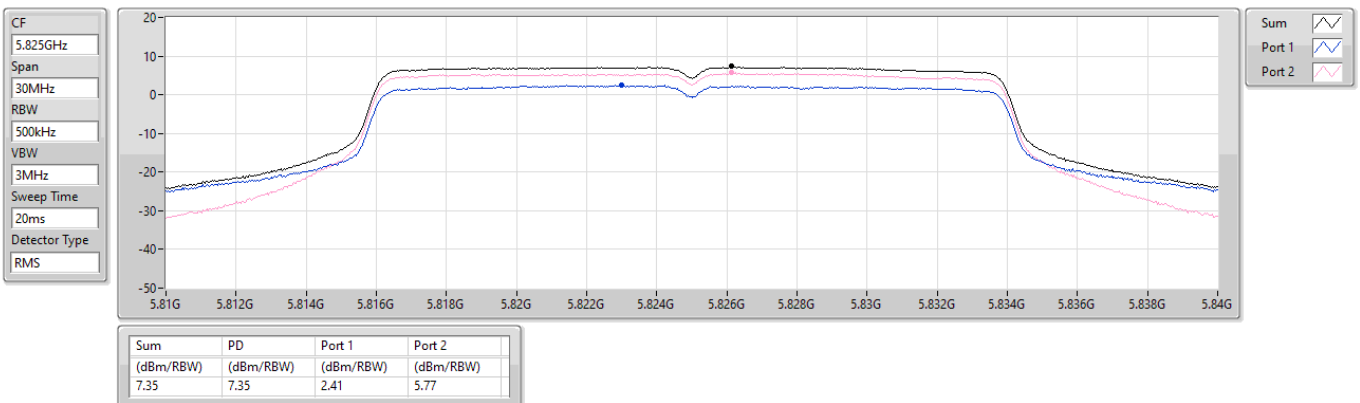


5.725-5.85GHz_802.11ac VHT20_Nss1,(MCS0)_2TX

5825MHz

PSD

09/10/2022

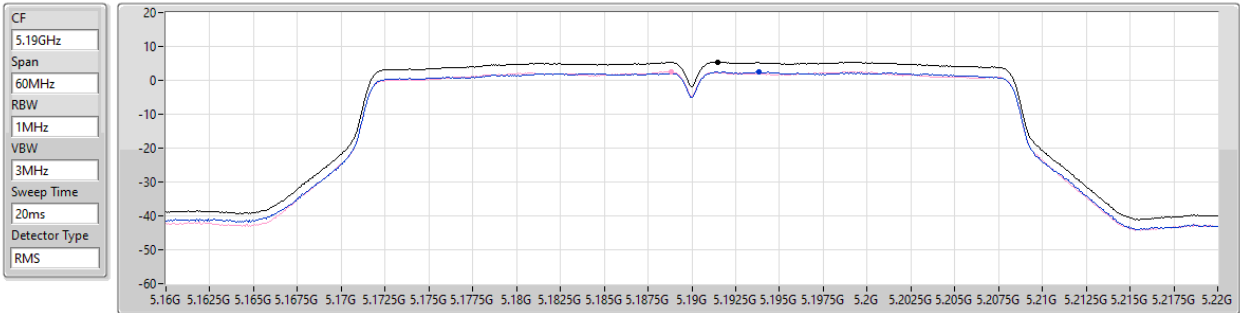


5.15-5.25GHz_802.11ac VHT40_Nss1,(MCS0)_2TX

5190MHz

PSD

09/10/2022



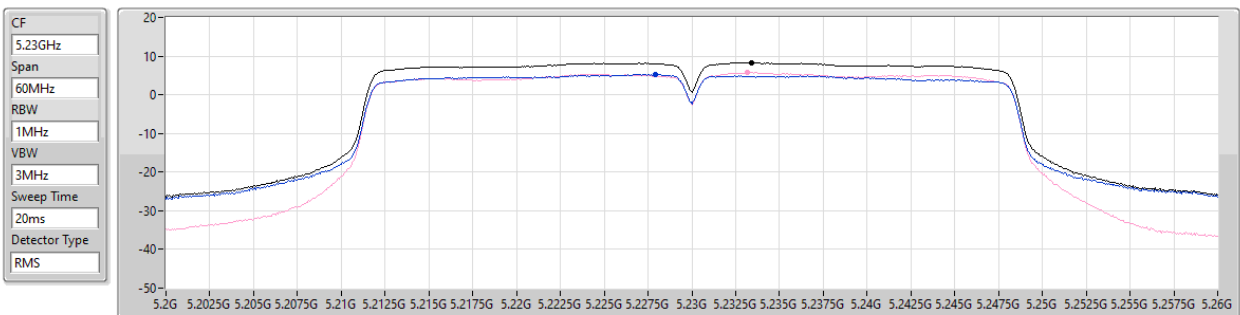
Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
5.36	5.36	2.50	2.58

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

5230MHz

PSD

09/10/2022



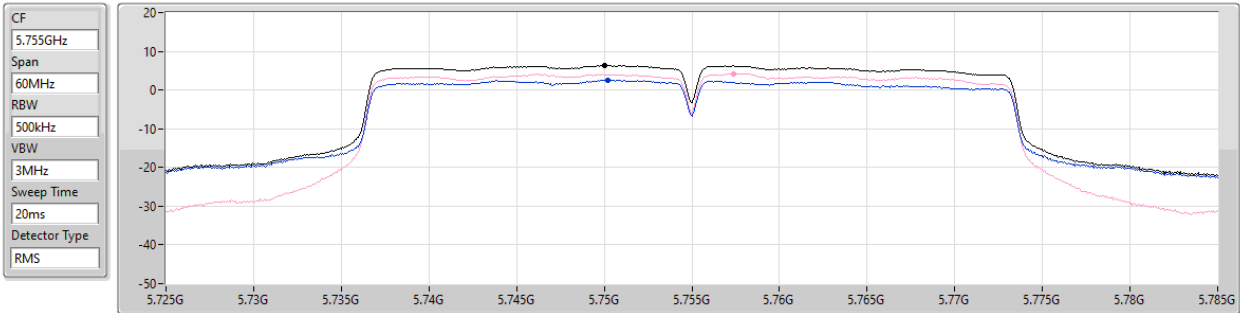
Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
8.28	8.28	5.28	5.79

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

5755MHz

PSD

09/10/2022



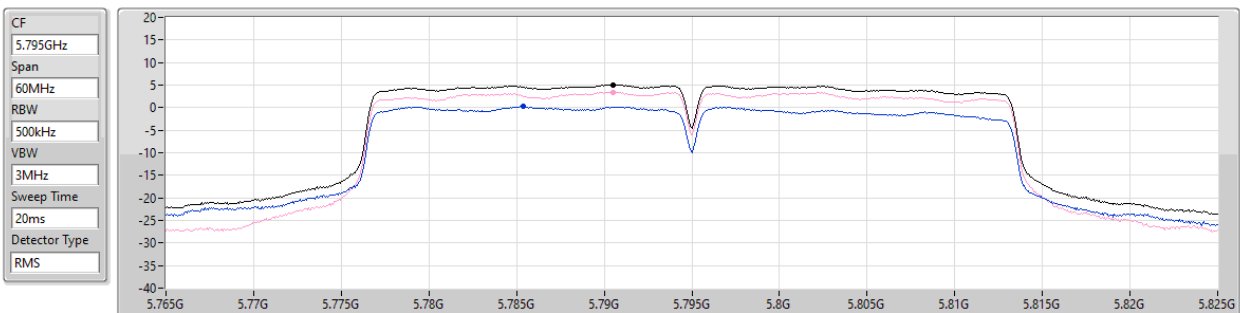
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
6.34	6.34	2.61	4.23

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

5795MHz

PSD

09/10/2022



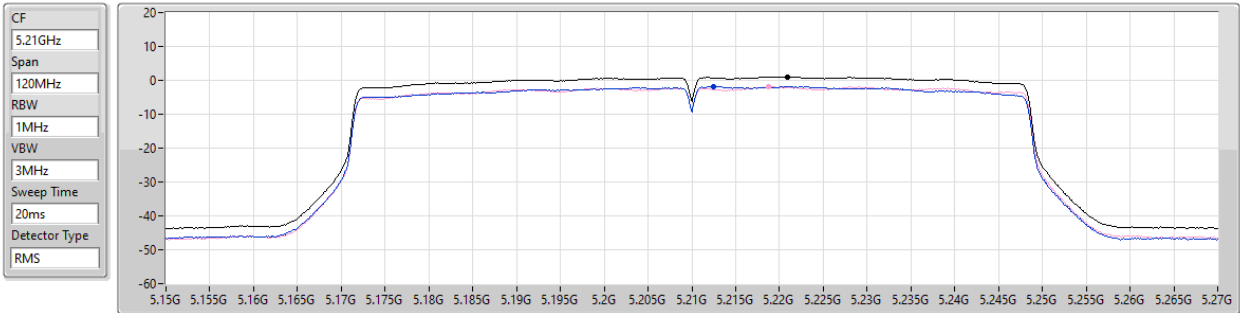
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
5.10	5.10	0.25	3.43

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

5210MHz

PSD

09/10/2022



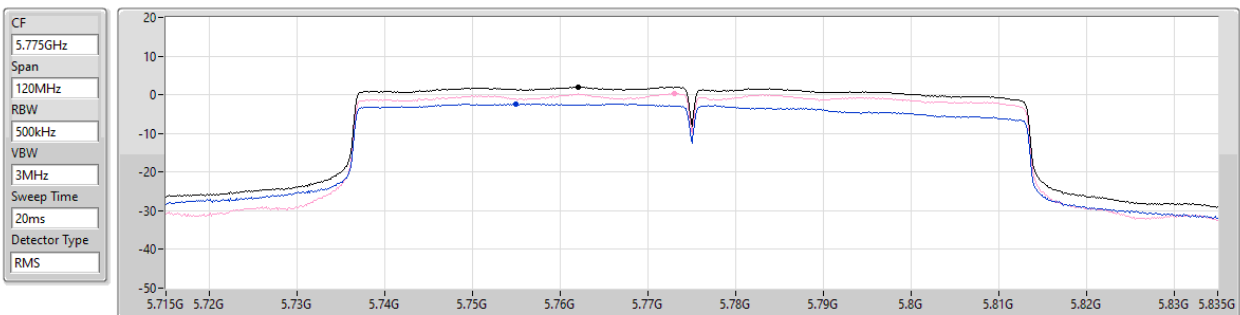
Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
1.04	1.04	-1.81	-1.81

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

5775MHz

PSD

09/10/2022



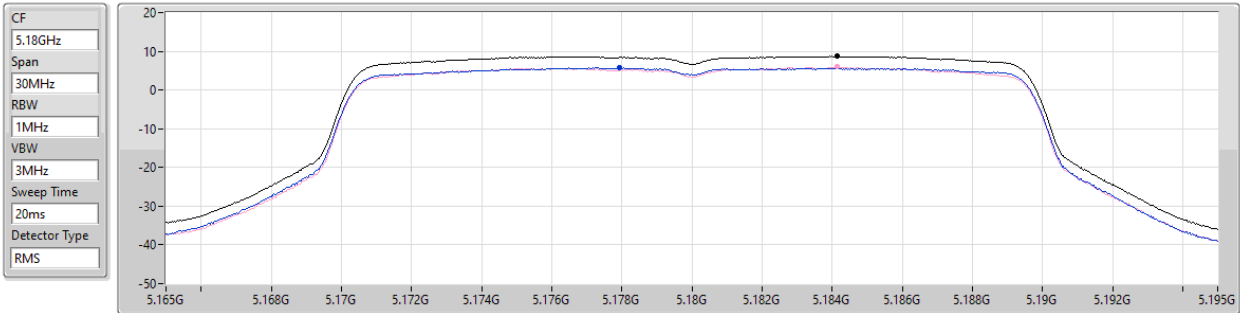
Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
2.04	2.04	-2.31	0.27

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

5180MHz

PSD

09/10/2022



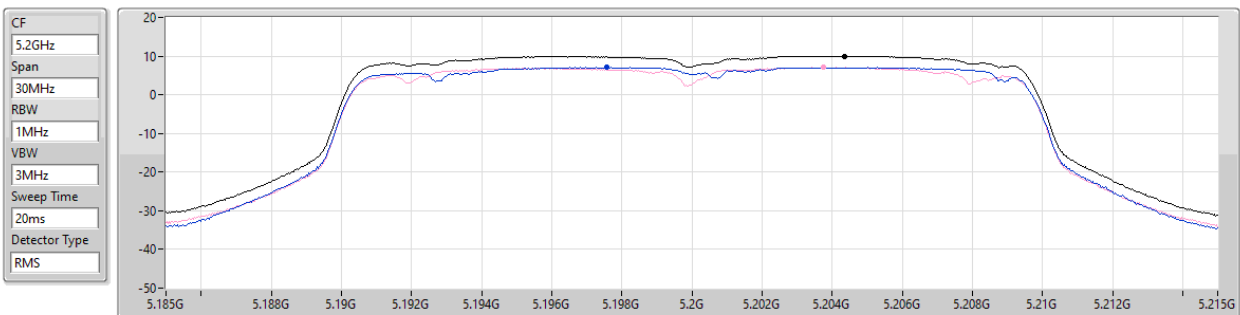
Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
8.74	8.74	5.76	5.92

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

5200MHz

PSD

09/10/2022



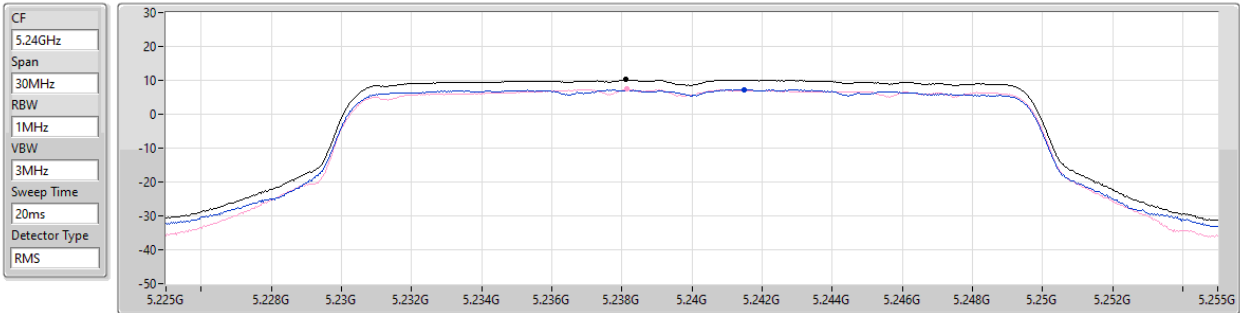
Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
10.00	10.00	7.08	7.05

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

5240MHz

PSD

09/10/2022



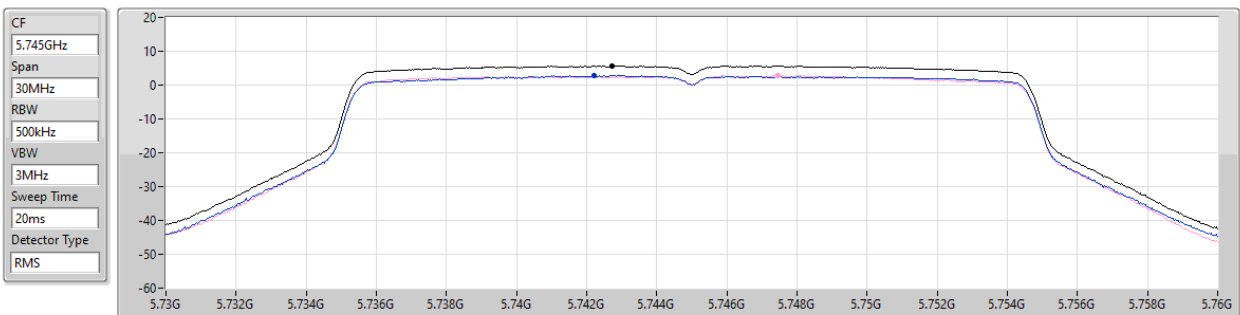
Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
10.19	10.19	7.21	7.36

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

5745MHz

PSD

09/10/2022



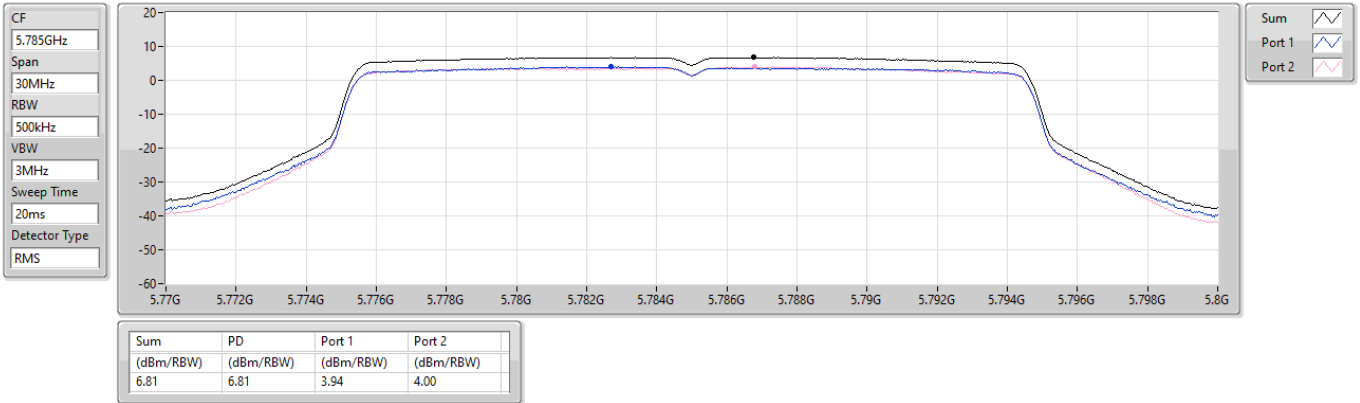
Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
5.66	5.66	2.77	2.79

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

5785MHz

PSD

09/10/2022

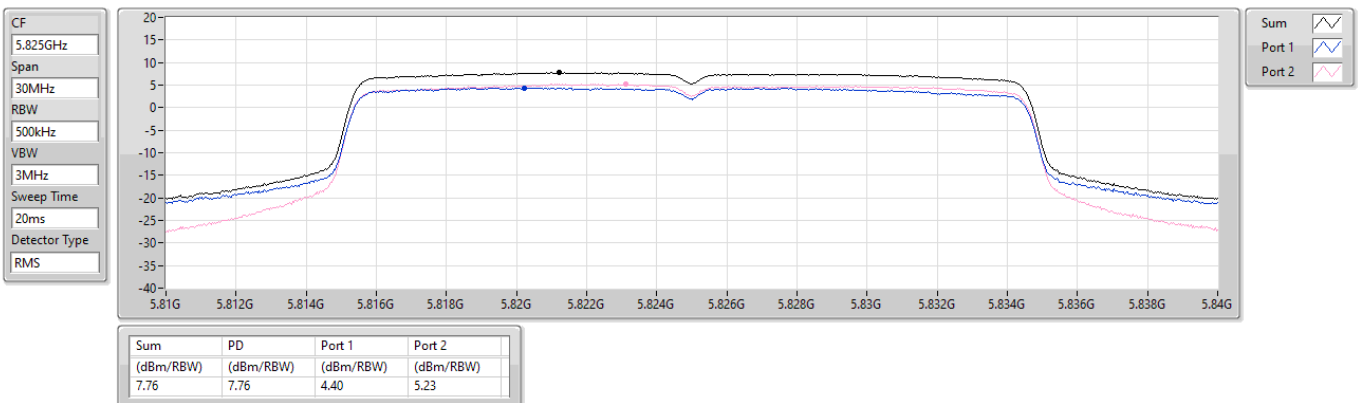


5.725-5.85GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

5825MHz

PSD

09/10/2022

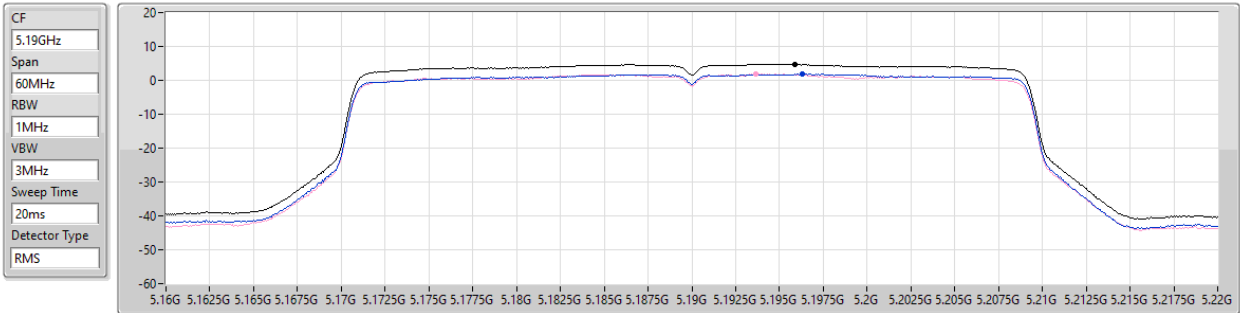


5.15-5.25GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

5190MHz

PSD

09/10/2022



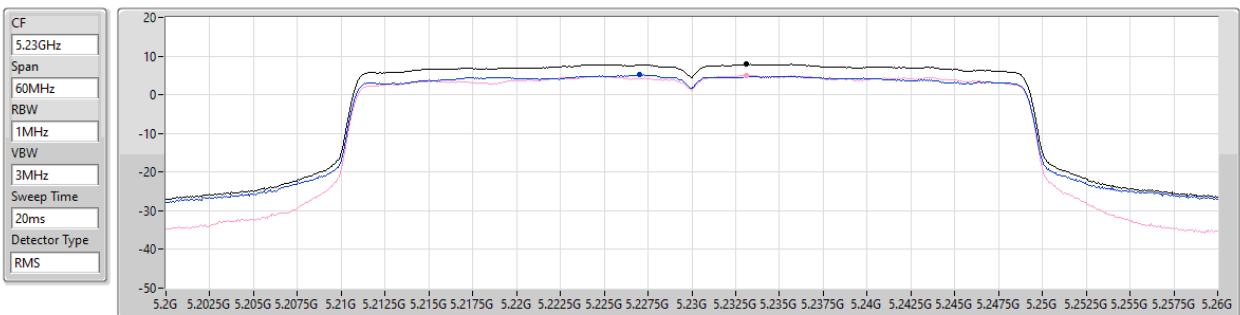
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
4.74	4.74	1.88	1.81

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

5230MHz

PSD

09/10/2022



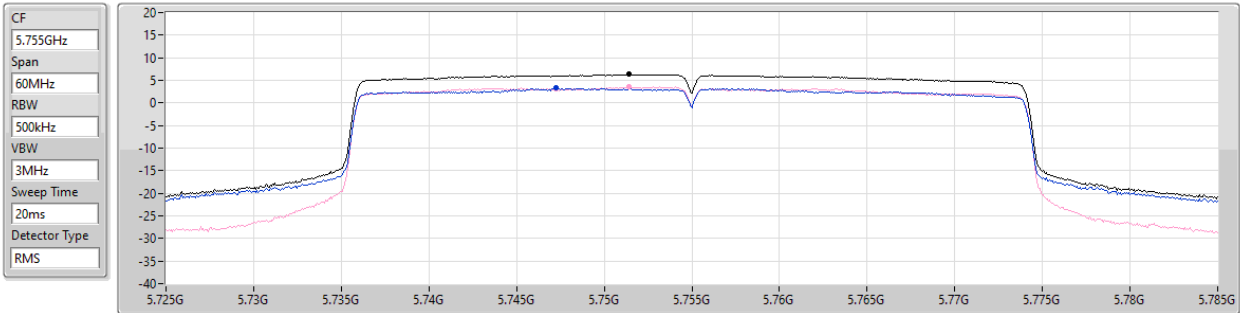
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
7.85	7.85	5.14	5.07

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

5755MHz

PSD

09/10/2022



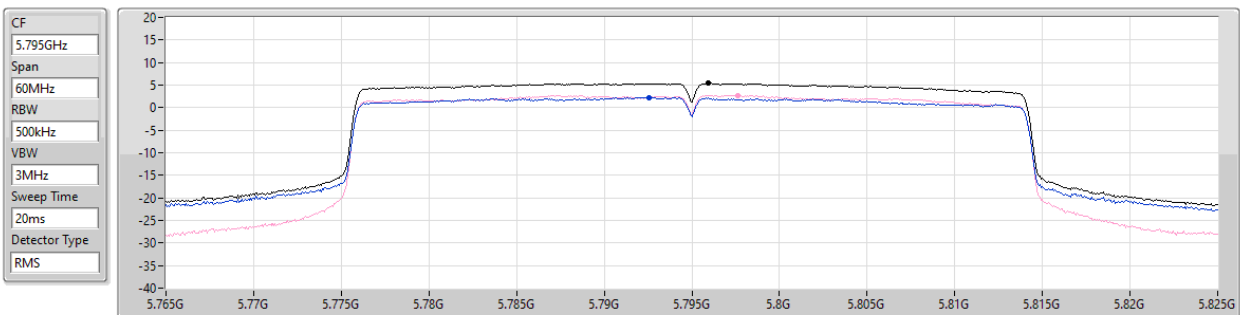
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
6.32	6.32	3.27	3.51

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

5795MHz

PSD

09/10/2022



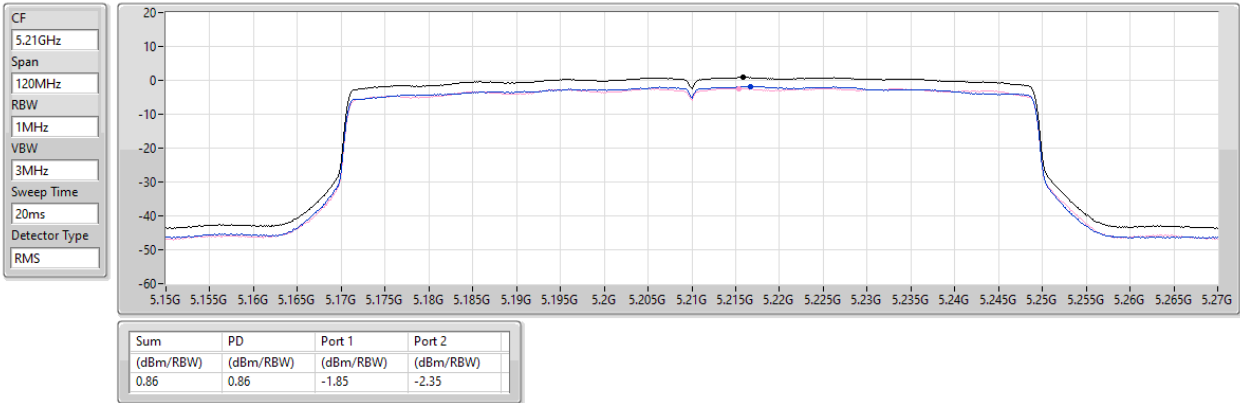
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
5.45	5.45	2.29	2.77

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

5210MHz

PSD

09/10/2022

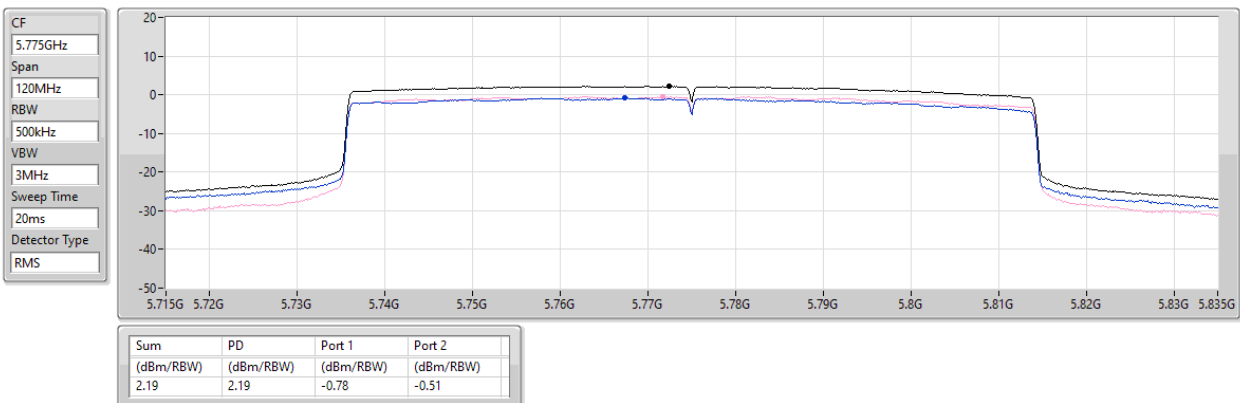


5.725-5.85GHz_802.11ax HEW80_Nss1,(MCS0)_2TX

5775MHz

PSD

09/10/2022





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	11.35	19.14
802.11n HT20_Nss1,(MCS0)_2TX	10.72	18.51
802.11n HT40_Nss1,(MCS0)_2TX	8.66	16.45
802.11ac VHT20_Nss1,(MCS0)_2TX	10.30	18.09
802.11ac VHT40_Nss1,(MCS0)_2TX	8.64	16.43
802.11ac VHT80_Nss1,(MCS0)_2TX	1.72	9.51
802.11ax HEW20_Nss1,(MCS0)_2TX	10.62	18.41
802.11ax HEW40_Nss1,(MCS0)_2TX	8.00	15.79
802.11ax HEW80_Nss1,(MCS0)_2TX	1.17	8.96
5.725-5.85GHz	-	-
802.11a_Nss1,(6Mbps)_2TX	10.50	17.94
802.11n HT20_Nss1,(MCS0)_2TX	9.96	17.40
802.11n HT40_Nss1,(MCS0)_2TX	7.27	14.71
802.11ac VHT20_Nss1,(MCS0)_2TX	9.62	17.06
802.11ac VHT40_Nss1,(MCS0)_2TX	7.17	14.61
802.11ac VHT80_Nss1,(MCS0)_2TX	3.33	10.77
802.11ax HEW20_Nss1,(MCS0)_2TX	10.42	17.86
802.11ax HEW40_Nss1,(MCS0)_2TX	7.09	14.53
802.11ax HEW80_Nss1,(MCS0)_2TX	3.39	10.83

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	7.79	7.60	7.01	10.22	15.21	18.01	23.00
5200MHz	Pass	7.79	8.78	8.22	11.35	15.21	19.14	23.00
5240MHz	Pass	7.79	8.40	8.31	11.27	15.21	19.06	23.00
5745MHz	Pass	7.44	7.42	7.21	10.21	28.56	17.65	36.00
5785MHz	Pass	7.44	7.66	7.55	10.50	28.56	17.94	36.00
5825MHz	Pass	7.44	7.19	6.72	9.91	28.56	17.35	36.00
802.11n HT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5180MHz	Pass	7.79	8.04	7.50	10.64	15.21	18.43	23.00
5200MHz	Pass	7.79	6.88	6.58	9.63	15.21	17.42	23.00
5240MHz	Pass	7.79	8.13	7.75	10.72	15.21	18.51	23.00
5745MHz	Pass	7.44	6.69	7.04	9.82	28.56	17.26	36.00
5785MHz	Pass	7.44	7.05	7.13	9.96	28.56	17.40	36.00
5825MHz	Pass	7.44	6.09	6.87	9.51	28.56	16.95	36.00
802.11n HT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5190MHz	Pass	7.79	3.17	2.85	5.94	15.21	13.73	23.00
5230MHz	Pass	7.79	6.19	5.49	8.66	15.21	16.45	23.00
5755MHz	Pass	7.44	4.12	4.56	7.27	28.56	14.71	36.00
5795MHz	Pass	7.44	3.85	4.01	6.86	28.56	14.30	36.00
802.11ac VHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5180MHz	Pass	7.79	7.66	7.17	10.27	15.21	18.06	23.00
5200MHz	Pass	7.79	6.55	5.85	9.07	15.21	16.86	23.00
5240MHz	Pass	7.79	7.56	7.39	10.30	15.21	18.09	23.00
5745MHz	Pass	7.44	6.54	6.70	9.59	28.56	17.03	36.00
5785MHz	Pass	7.44	6.60	6.68	9.62	28.56	17.06	36.00
5825MHz	Pass	7.44	5.87	6.58	9.18	28.56	16.62	36.00
802.11ac VHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5190MHz	Pass	7.79	3.02	2.69	5.78	15.21	13.57	23.00
5230MHz	Pass	7.79	6.00	5.51	8.64	15.21	16.43	23.00
5755MHz	Pass	7.44	4.07	4.50	7.17	28.56	14.61	36.00
5795MHz	Pass	7.44	3.74	4.04	6.84	28.56	14.28	36.00
802.11ac VHT80_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5210MHz	Pass	7.79	-1.01	-1.38	1.72	15.21	9.51	23.00
5775MHz	Pass	7.44	0.18	0.62	3.33	28.56	10.77	36.00
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5180MHz	Pass	7.79	8.02	7.31	10.56	15.21	18.35	23.00
5200MHz	Pass	7.79	6.78	6.19	9.42	15.21	17.21	23.00
5240MHz	Pass	7.79	7.98	7.70	10.62	15.21	18.41	23.00
5745MHz	Pass	7.44	7.29	7.44	10.34	28.56	17.78	36.00
5785MHz	Pass	7.44	7.52	7.45	10.42	28.56	17.86	36.00
5825MHz	Pass	7.44	6.45	7.21	9.80	28.56	17.24	36.00
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5190MHz	Pass	7.79	2.39	2.17	5.29	15.21	13.08	23.00
5230MHz	Pass	7.79	5.47	4.91	8.00	15.21	15.79	23.00
5755MHz	Pass	7.44	3.92	4.38	7.09	28.56	14.53	36.00
5795MHz	Pass	7.44	3.53	3.78	6.61	28.56	14.05	36.00
802.11ax HEW80_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5210MHz	Pass	7.79	-1.57	-2.00	1.17	15.21	8.96	23.00
5775MHz	Pass	7.44	0.23	0.60	3.39	28.56	10.83	36.00

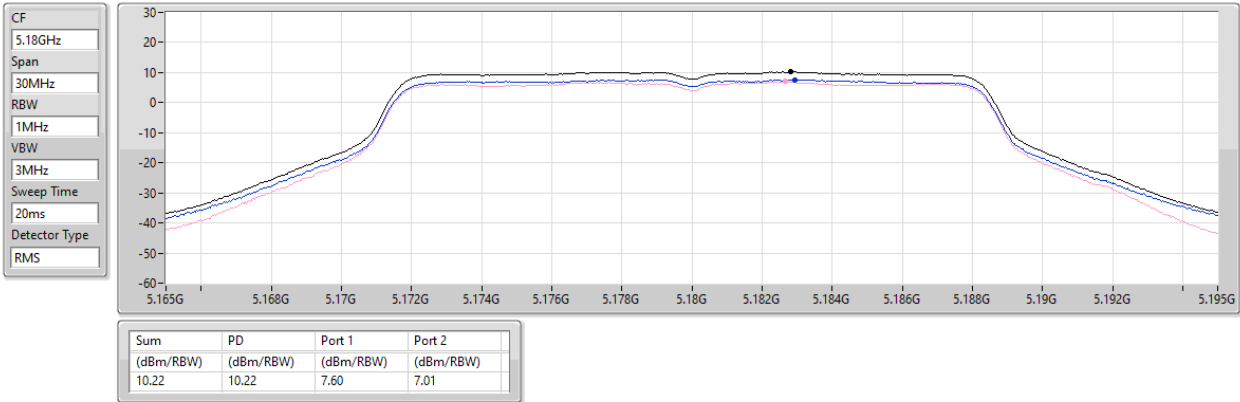
DG = Directional Gain; RBW = 500kHz for 5.725-5.85GHz band / 1MHz for other band;
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; Port X = Port X Power Density;

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

5180MHz

PSD

11/10/2022

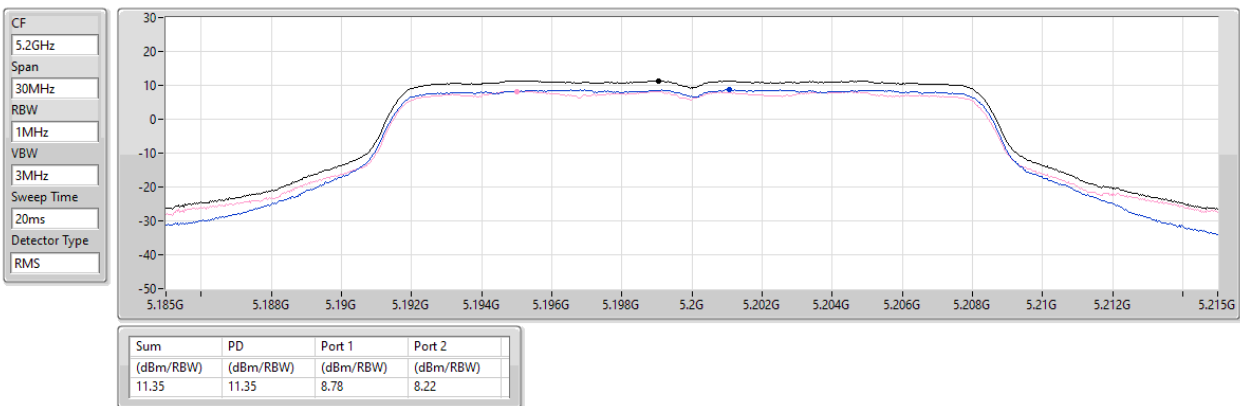


5.15-5.25GHz_802.11a_Nss1,(6Mbps)_2TX

5200MHz

PSD

10/10/2022

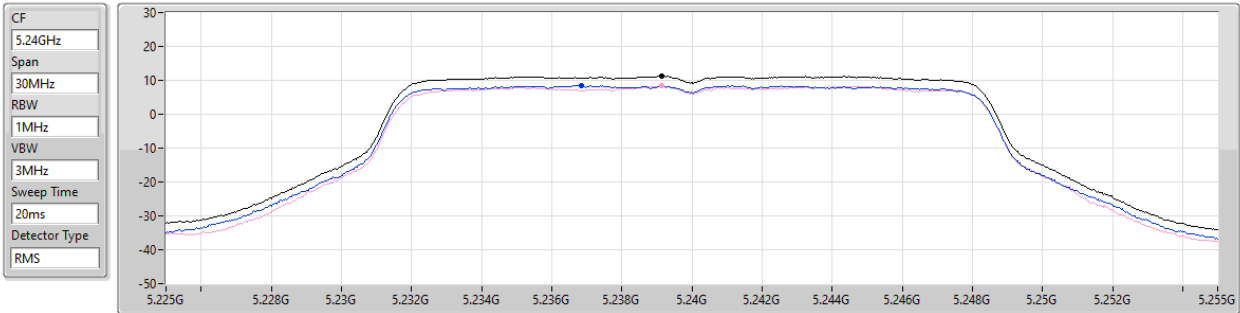


5.15-5.25GHz_802.11a_Nss1,(6Mbps)_2TX

5240MHz

PSD

10/10/2022



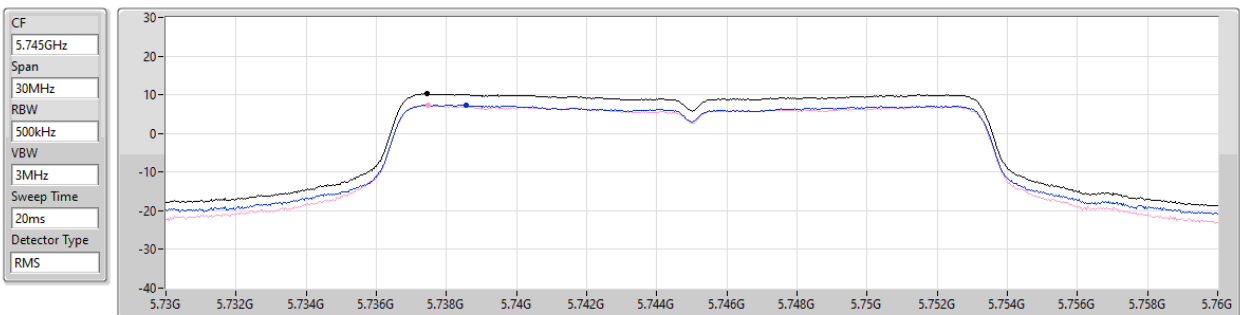
Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
11.27	11.27	8.40	8.31

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

5745MHz

PSD

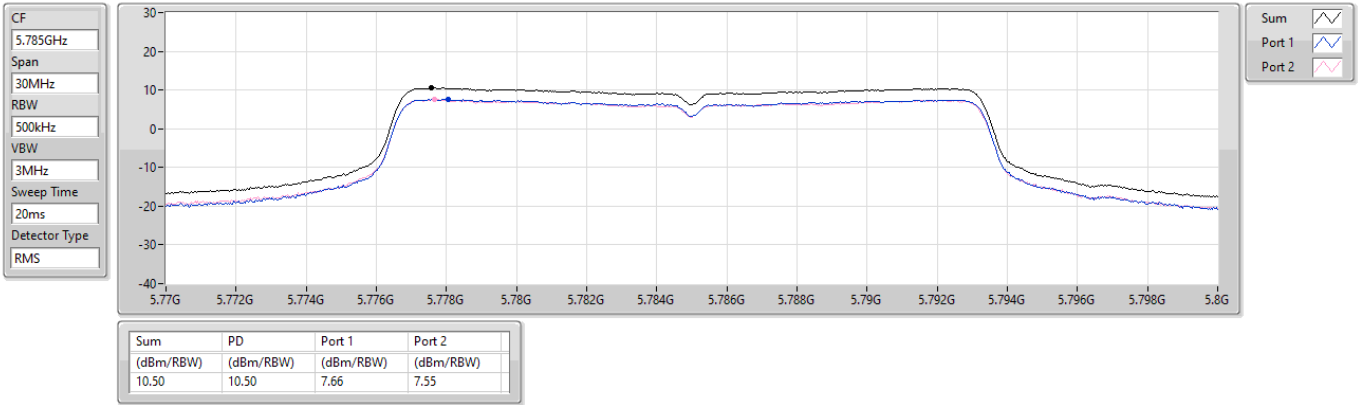
10/10/2022



Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
10.21	10.21	7.42	7.21

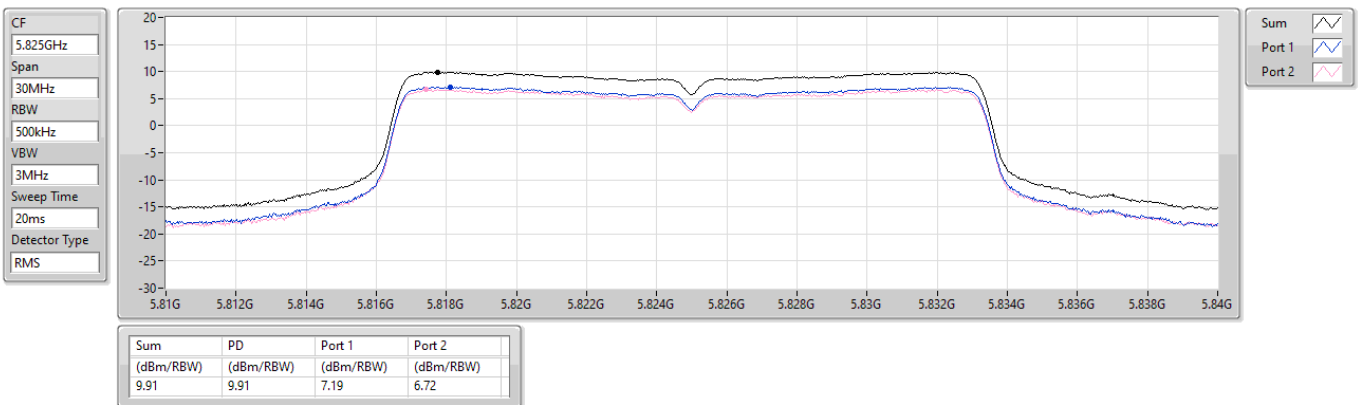
5.725-5.85GHz_802.11a_Nss1,(6Mbps)_2TX

5785MHz



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

5825MHz

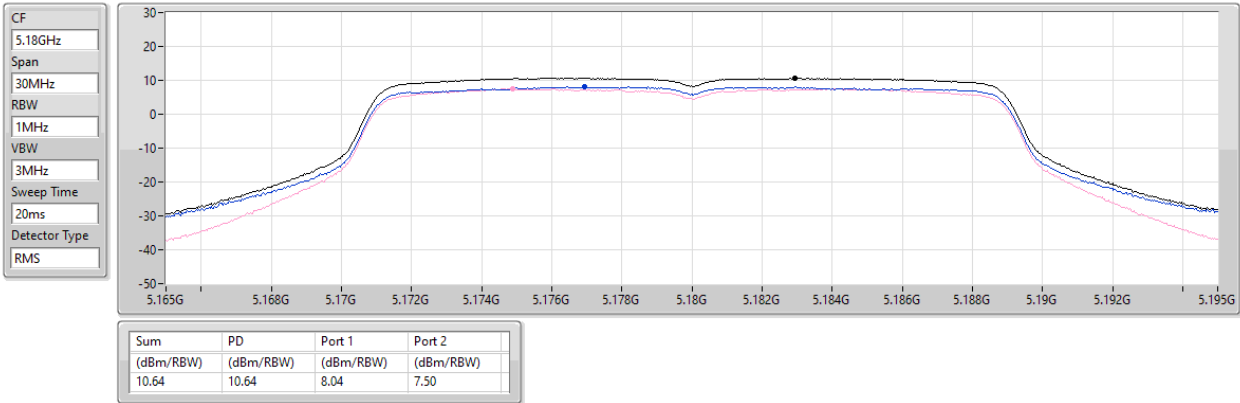


5.15-5.25GHz_802.11n HT20_Nss1,(MCS0)_2TX

5180MHz

PSD

10/10/2022

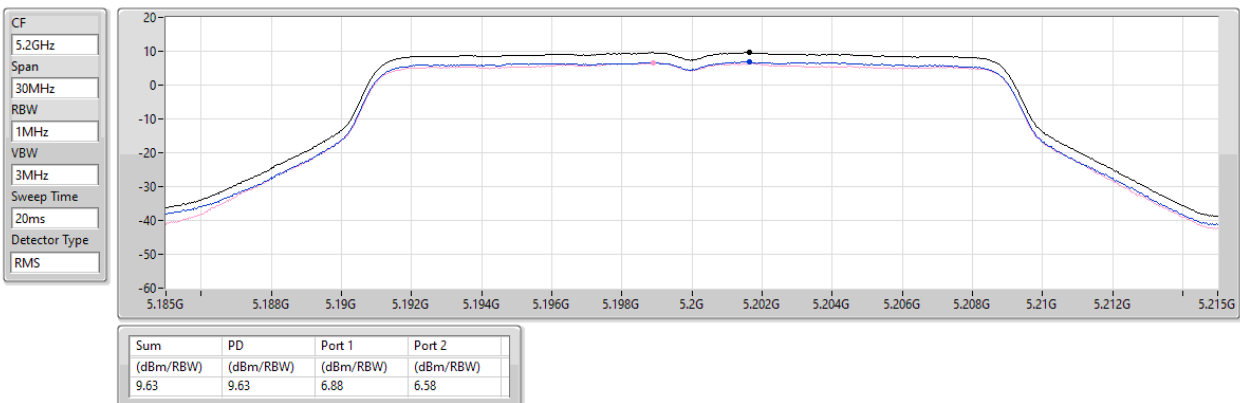


5.15-5.25GHz_802.11n HT20_Nss1,(MCS0)_2TX

5200MHz

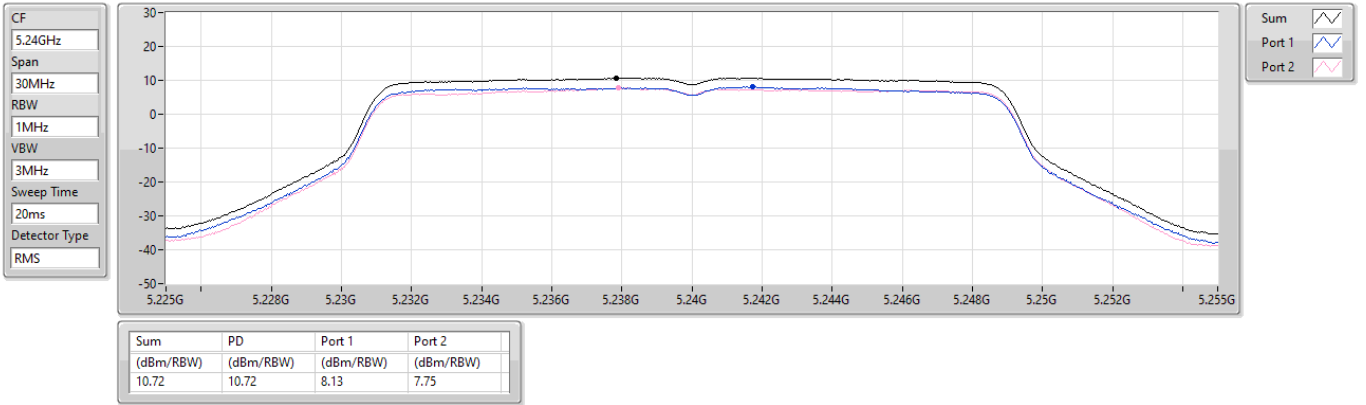
PSD

10/10/2022



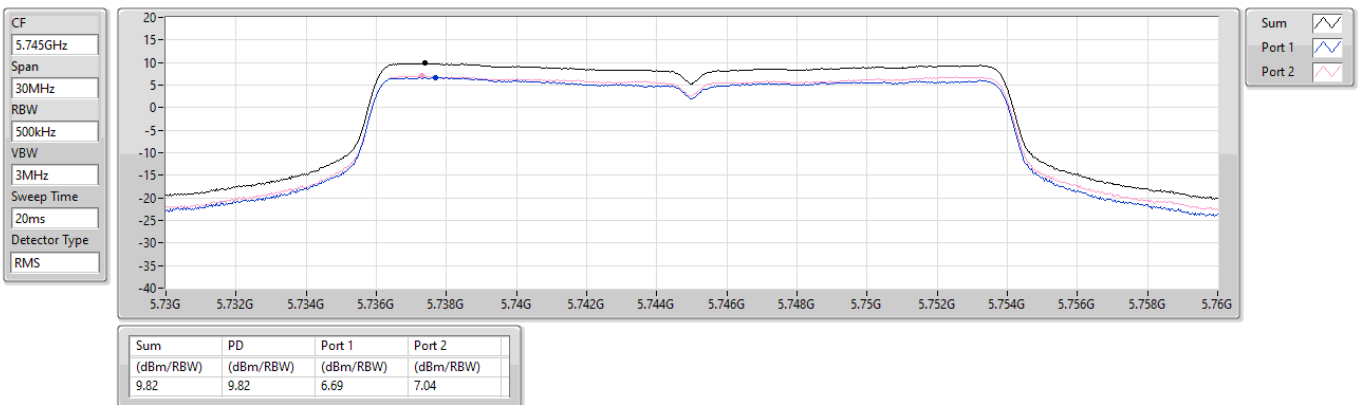
5.15-5.25GHz_802.11n HT20_Nss1,(MCS0)_2TX

5240MHz



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

5745MHz

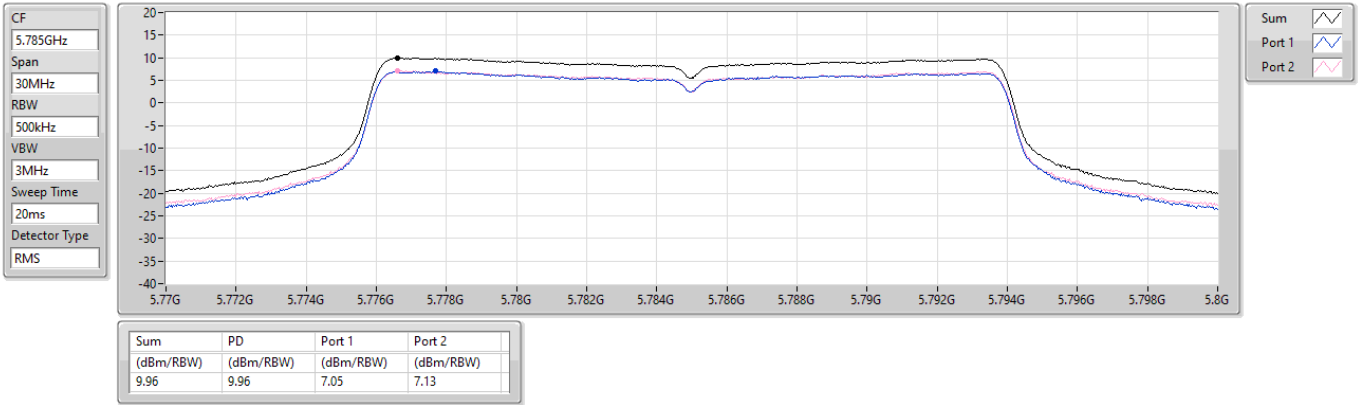


5.725-5.85GHz_802.11n HT20_Nss1,(MCS0)_2TX

5785MHz

PSD

11/10/2022

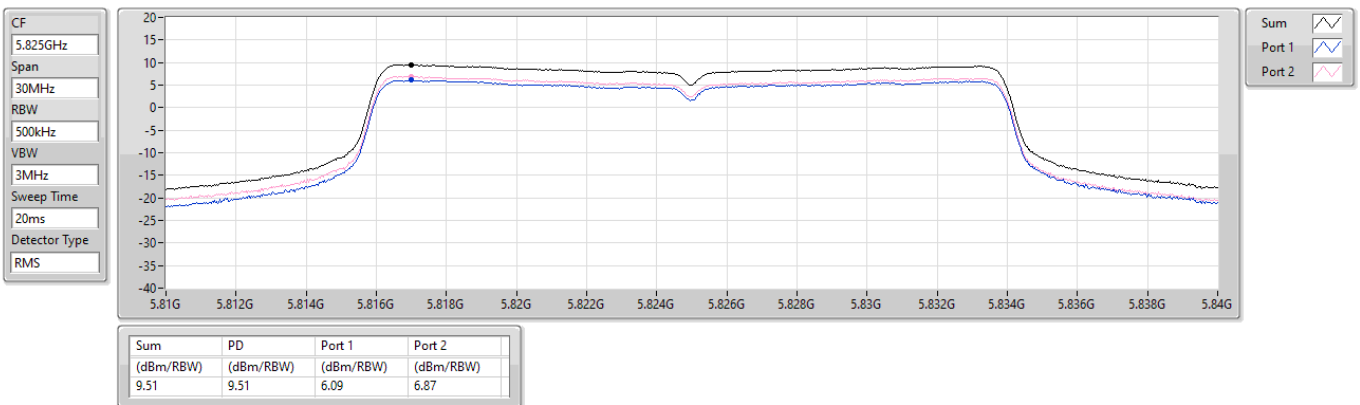


5.725-5.85GHz_802.11n HT20_Nss1,(MCS0)_2TX

5825MHz

PSD

11/10/2022

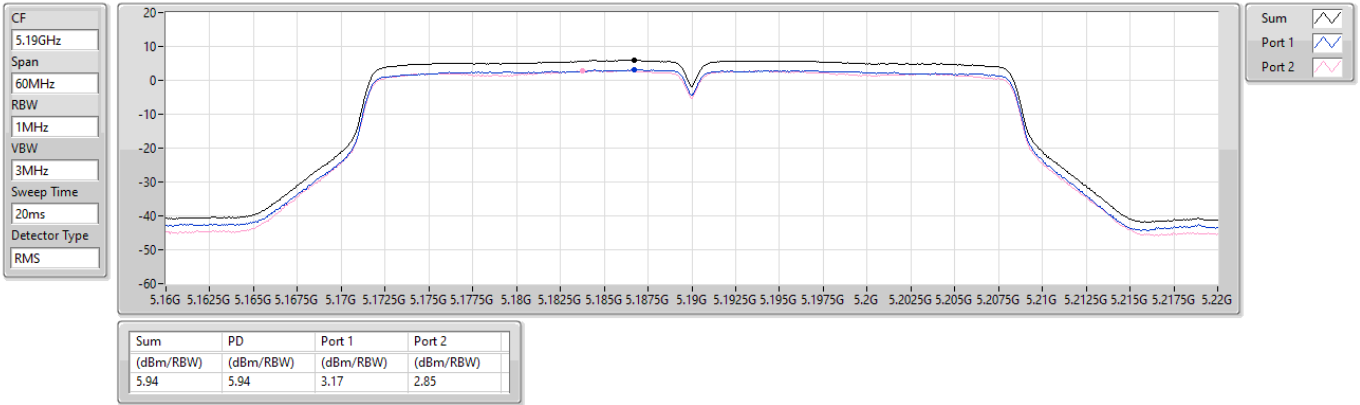


5.15-5.25GHz_802.11n HT40_Nss1,(MCS0)_2TX

5190MHz

PSD

10/10/2022

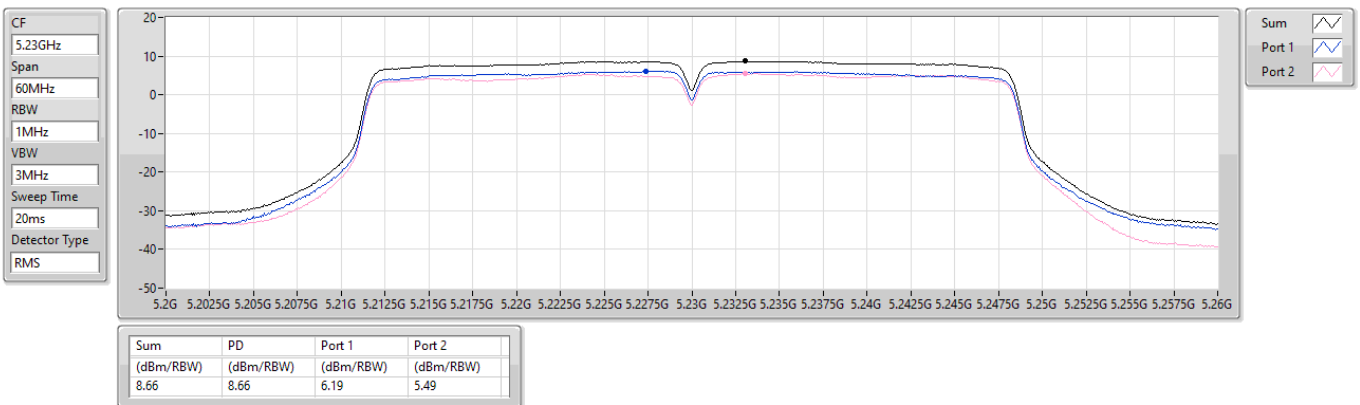


5.15-5.25GHz_802.11n HT40_Nss1,(MCS0)_2TX

5230MHz

PSD

10/10/2022

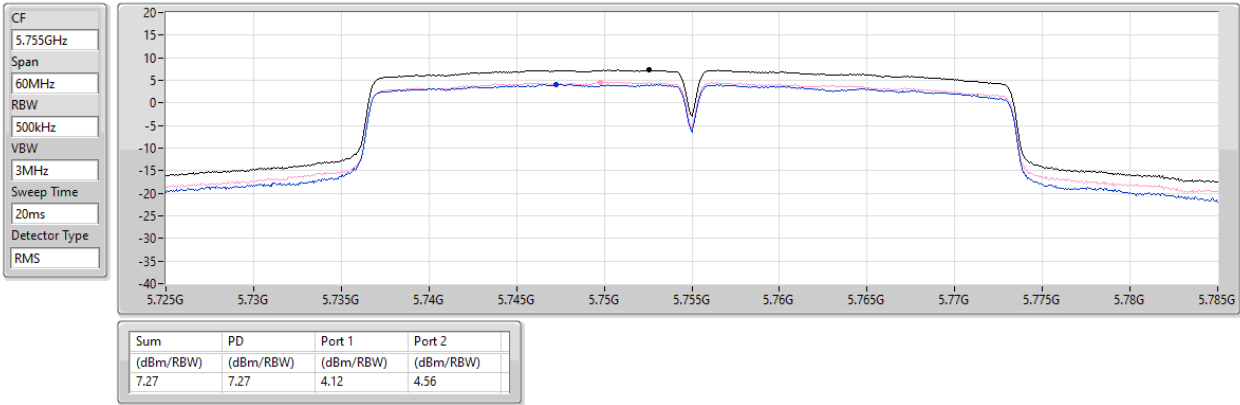


5.725-5.85GHz_802.11n HT40_Nss1,(MCS0)_2TX

5755MHz

PSD

11/10/2022

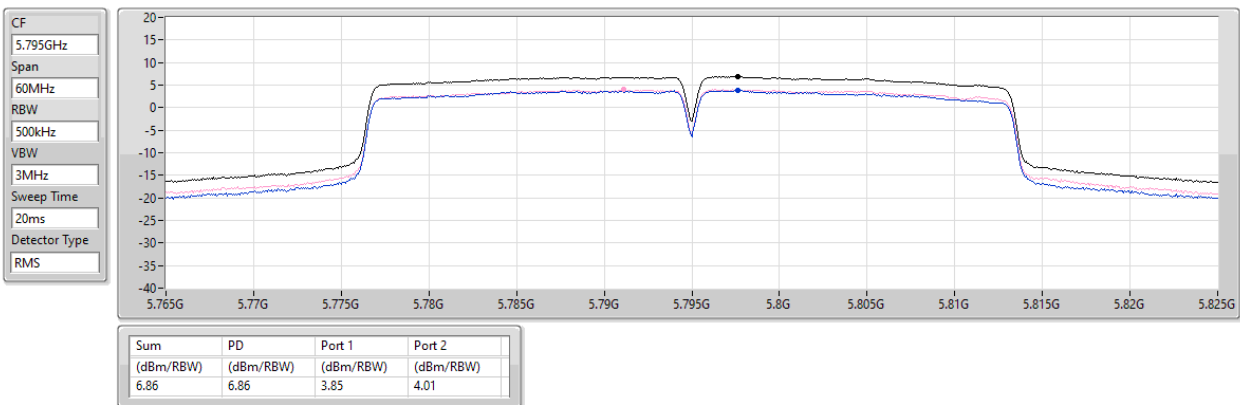


5.725-5.85GHz_802.11n HT40_Nss1,(MCS0)_2TX

5795MHz

PSD

11/10/2022

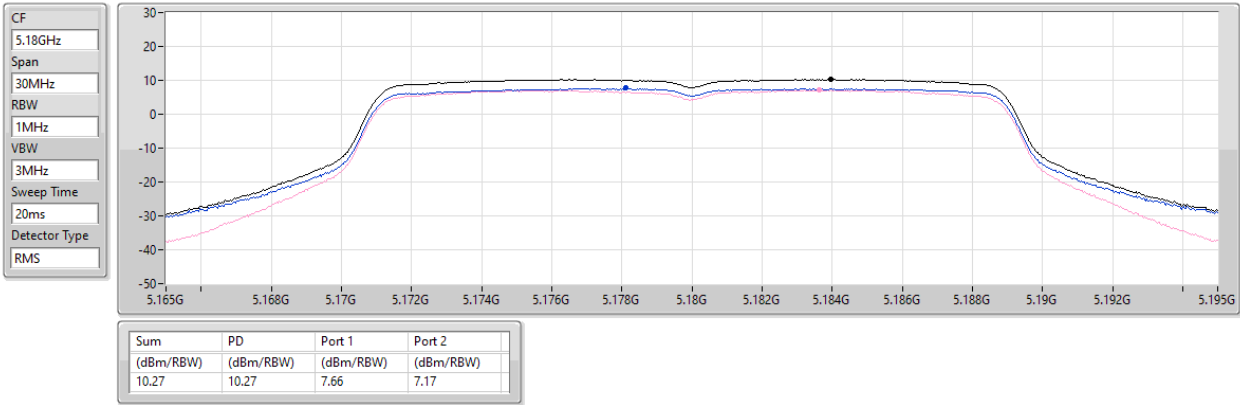


5.15-5.25GHz_802.11ac VHT20_Nss1,(MCS0)_2TX

5180MHz

PSD

10/10/2022

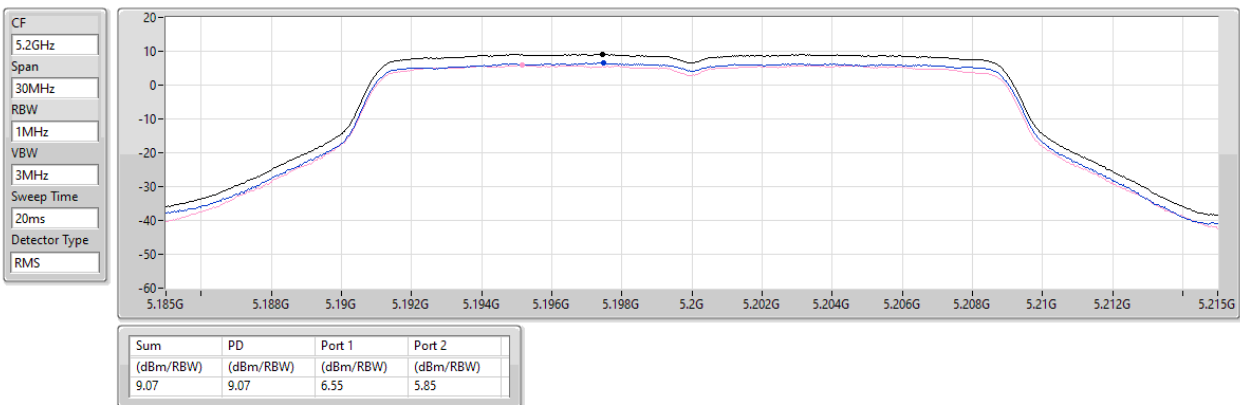


5.15-5.25GHz_802.11ac VHT20_Nss1,(MCS0)_2TX

5200MHz

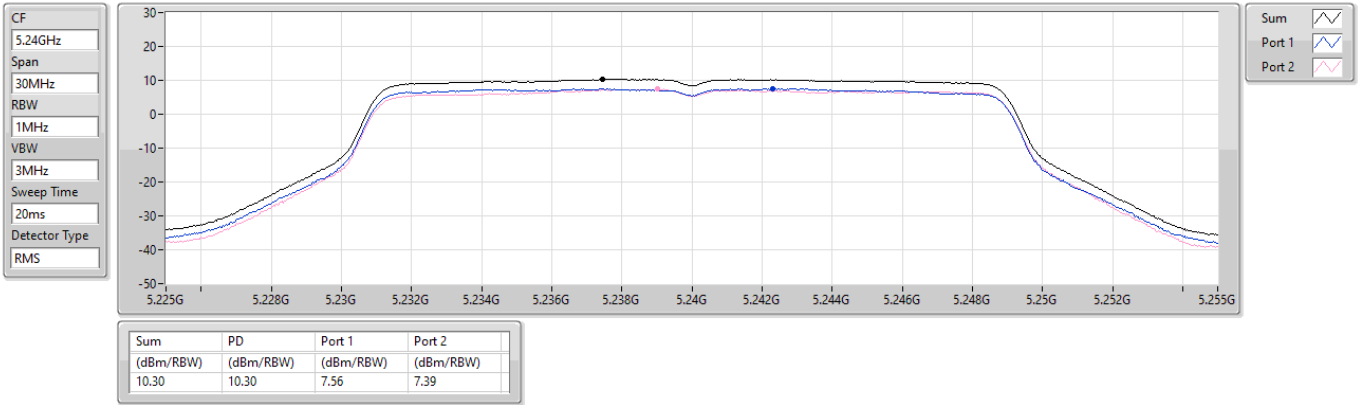
PSD

10/10/2022



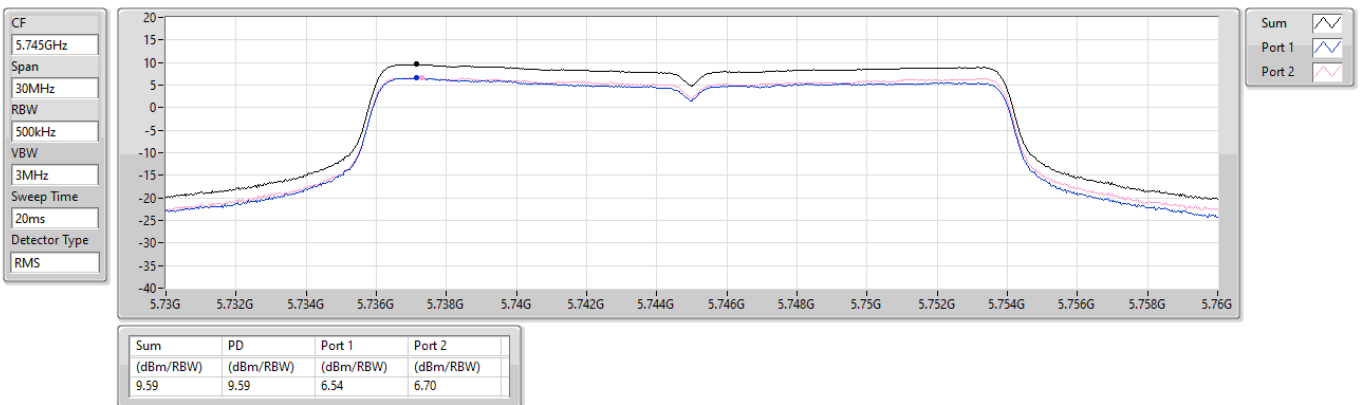
5.15-5.25GHz_802.11ac VHT20_Nss1,(MCS0)_2TX

5240MHz



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

5745MHz

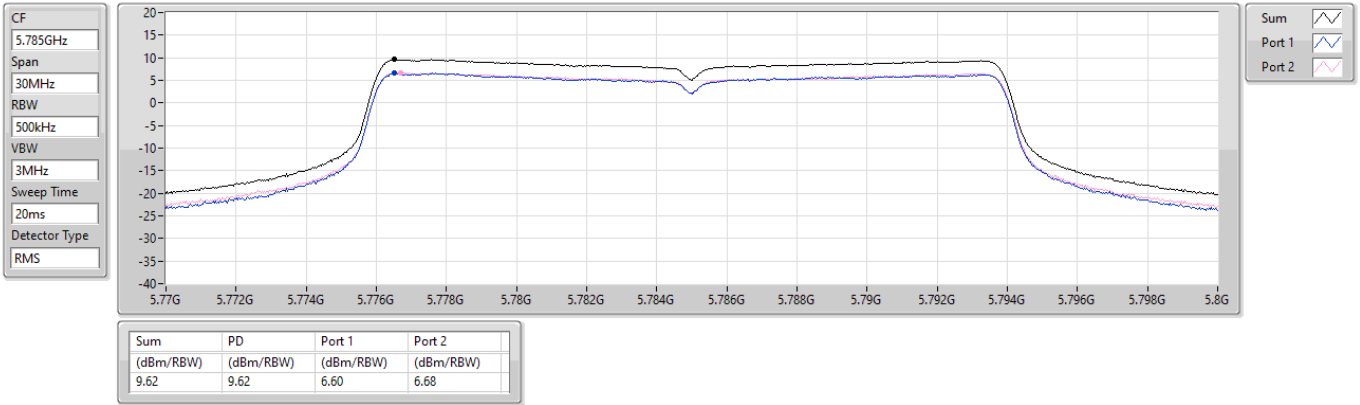


5.725-5.85GHz_802.11ac VHT20_Nss1,(MCS0)_2TX

5785MHz

PSD

11/10/2022

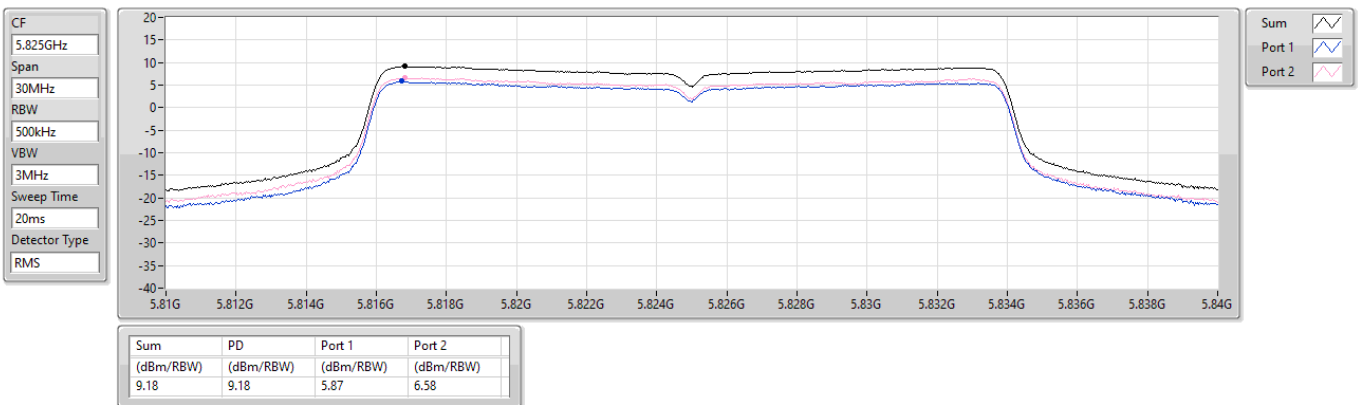


5.725-5.85GHz_802.11ac VHT20_Nss1,(MCS0)_2TX

5825MHz

PSD

11/10/2022

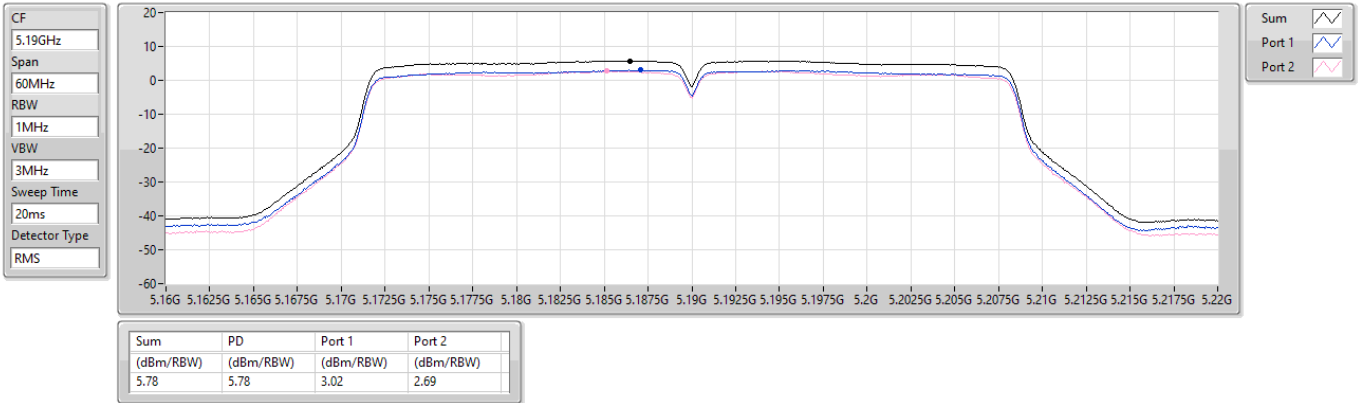


5.15-5.25GHz_802.11ac VHT40_Nss1,(MCS0)_2TX

5190MHz

PSD

10/10/2022

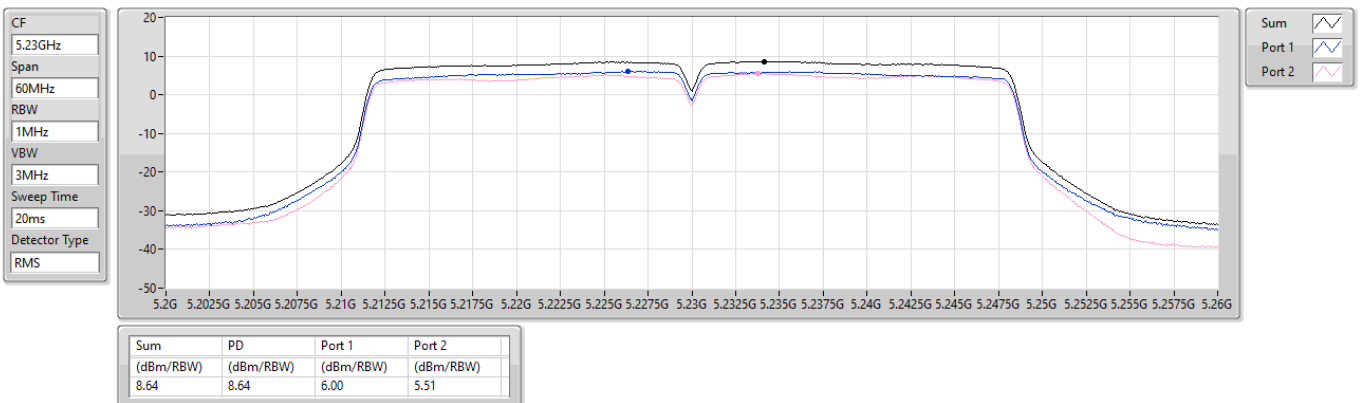


5.15-5.25GHz_802.11ac VHT40_Nss1,(MCS0)_2TX

5230MHz

PSD

10/10/2022

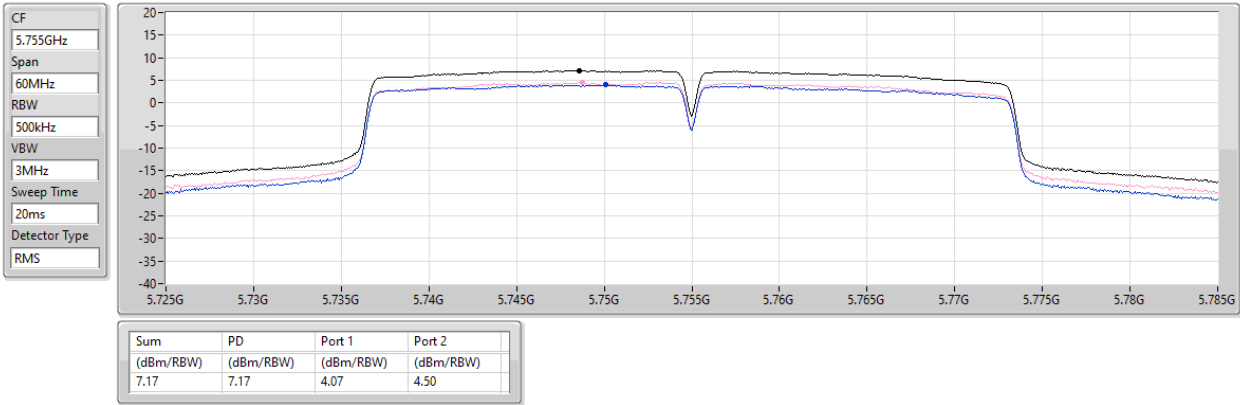


5.725-5.85GHz_802.11ac VHT40_Nss1,(MCS0)_2TX

5755MHz

PSD

11/10/2022

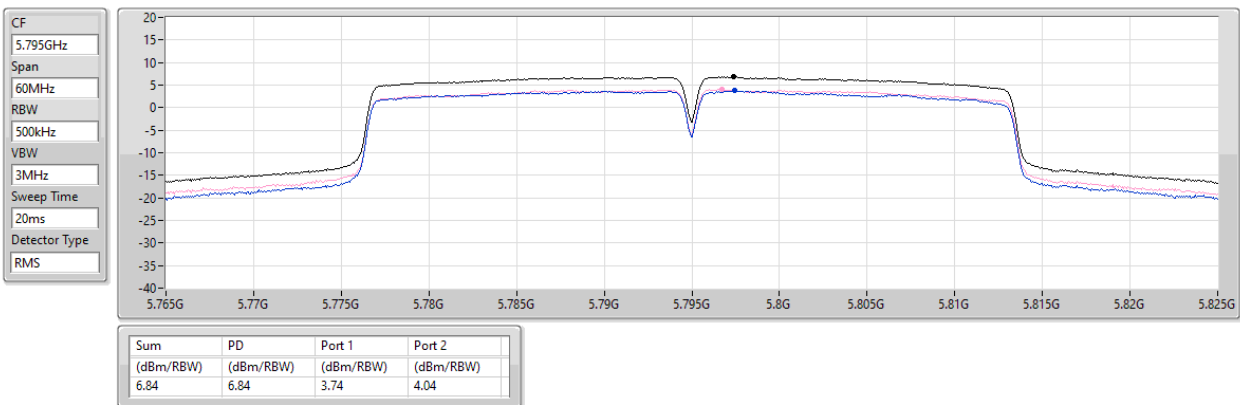


5.725-5.85GHz_802.11ac VHT40_Nss1,(MCS0)_2TX

5795MHz

PSD

11/10/2022

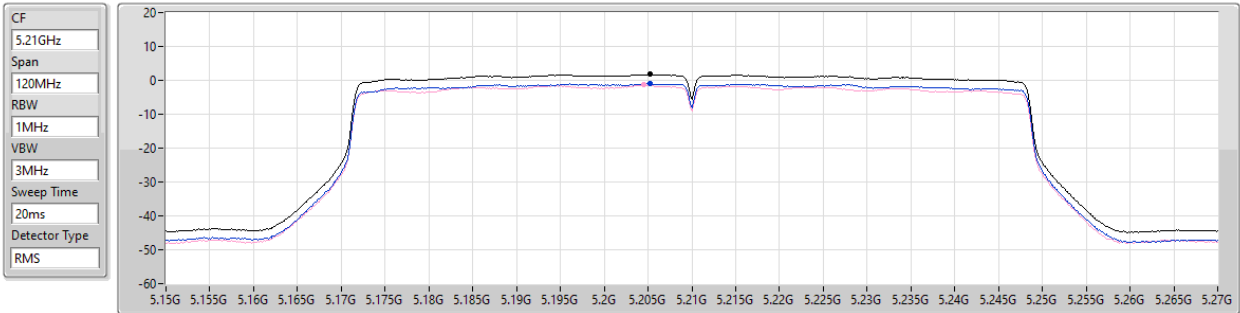


5.15-5.25GHz_802.11ac VHT80_Nss1,(MCS0)_2TX

5210MHz

PSD

19/10/2022



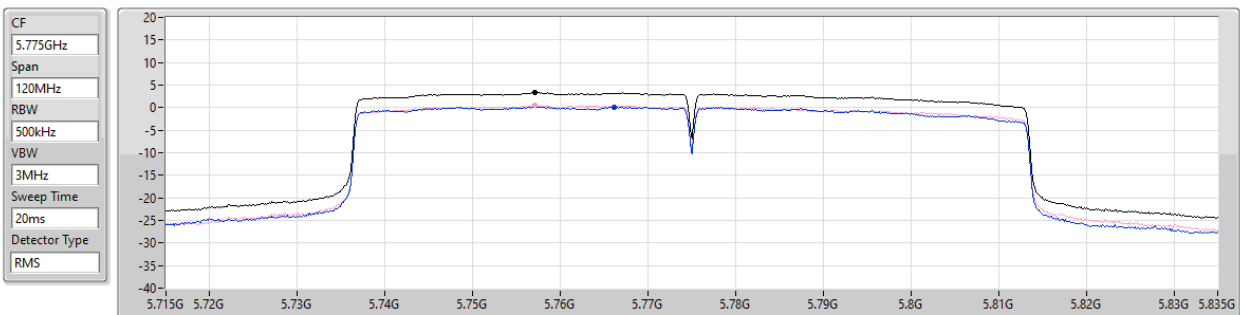
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
1.72	1.72	-1.01	-1.38

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

5775MHz

PSD

11/10/2022



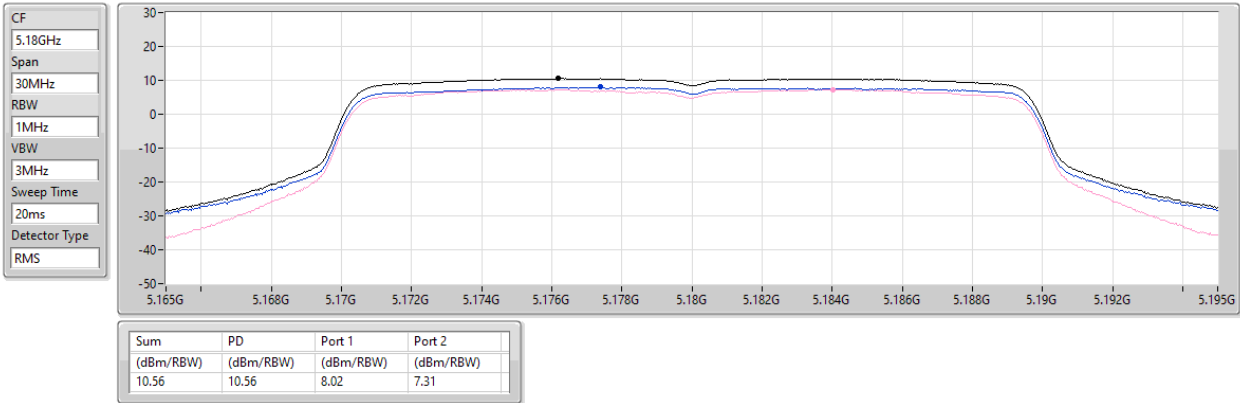
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
3.33	3.33	0.18	0.62

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

5180MHz

PSD

10/10/2022

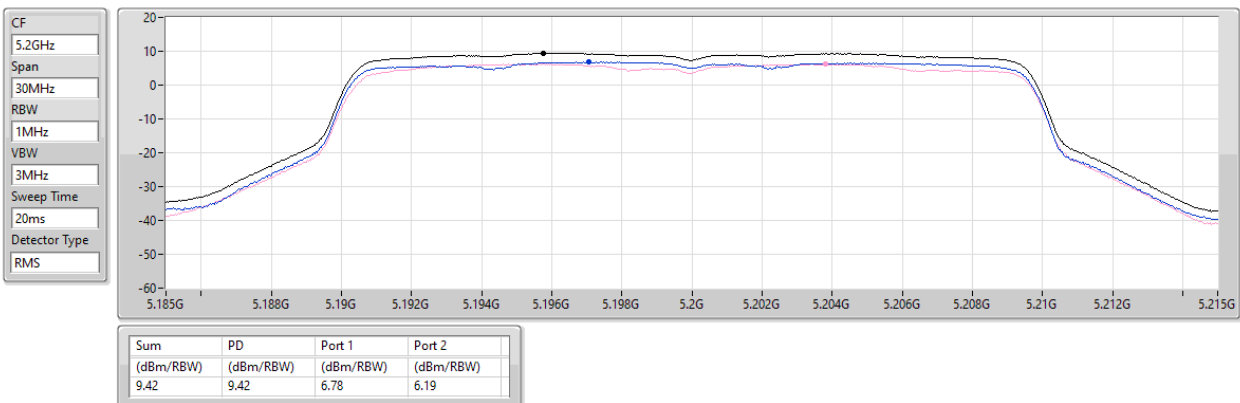


5.15-5.25GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

5200MHz

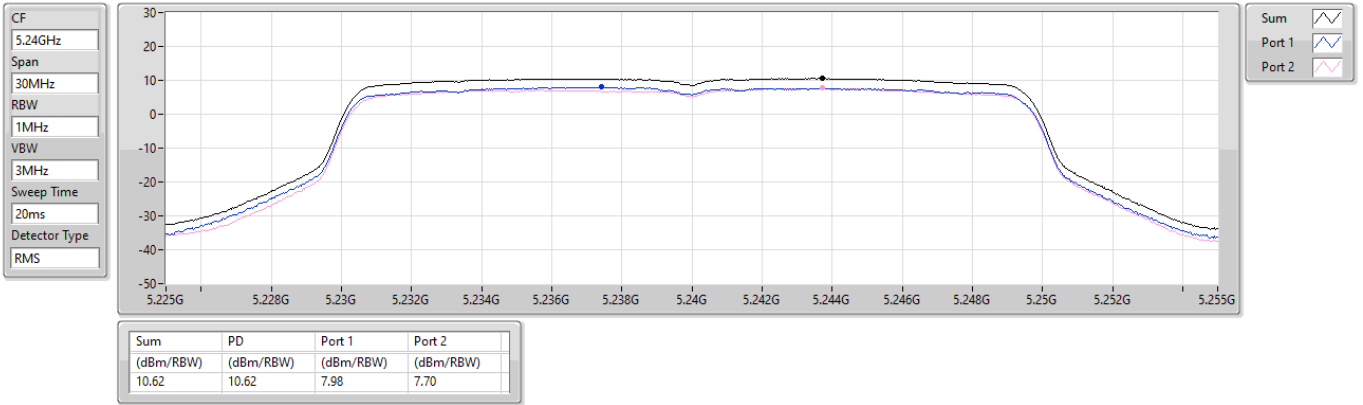
PSD

10/10/2022



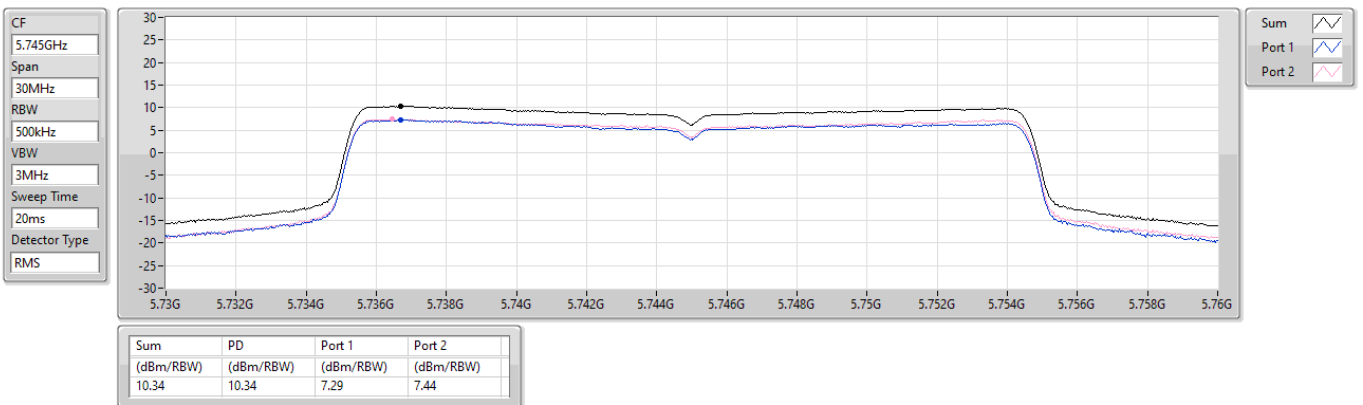
5.15-5.25GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

5240MHz



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

5745MHz

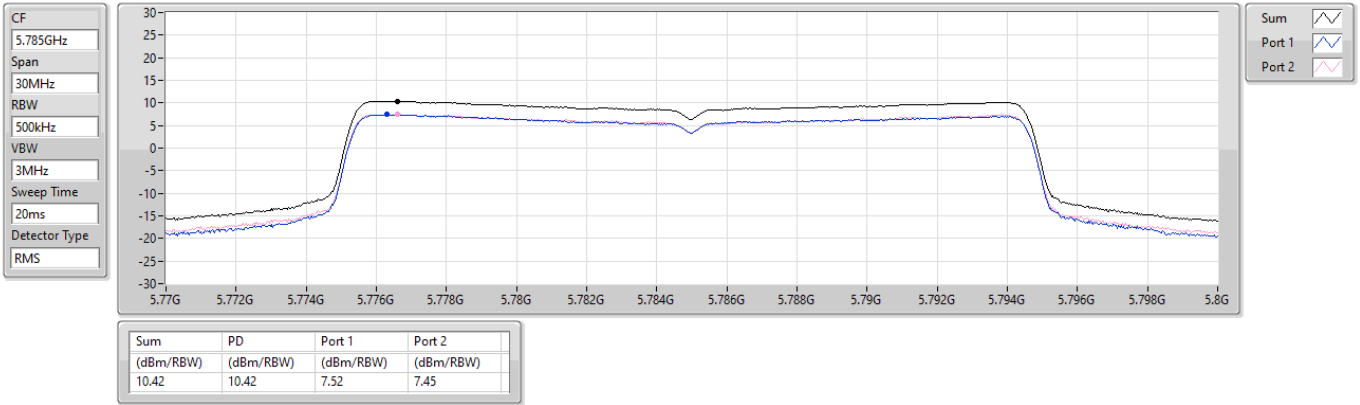


5.725-5.85GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

5785MHz

PSD

11/10/2022



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

5825MHz

PSD

11/10/2022

