

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 Aug. 08, 2022, and testing was started from Aug. 10, 2022 and completed on Apr. 20, 2023. 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 variant 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

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History of this test report

[illegible]

Summary of Test Result

Report Clause	Ref. Std. Clause	Test Items	Result (PASS/FAIL)	Remark
1.1.2	15.203	Antenna Requirement	PASS	-
3.1	15.407(a)	Emission Bandwidth	PASS	-
3.2	15.407(a)	Maximum Conducted Output Power	PASS	-
3.3	15.407(a)	Peak Power Spectral Density	PASS	-
3.4	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: Amber Chiu

1 General Description

1.1 Information

1.1.1 RF General Information

Radio2

Frequency Range (MHz)	IEEE Std. 802.11	Ch. Frequency (MHz)	Channel Number
5250-5350	a, n (HT20), ac (VHT20), ax(HEW20)	5260-5320	52-64 [4]
5470-5725		5500-5700	100-140 [11]
Straddle 5720		5720	144 [1]
5250-5350	n (HT40), ac (VHT40), ax(HEW40)	5270-5310	54-62 [2]
5470-5725		5510-5670	102-134 [5]
Straddle 5710		5710	142 [1]
5250-5350	ac (VHT80), ax(HEW80)	5290	58 [1]
5470-5725		5530-5610	106-122 [2]
Straddle 5690		5690	138 [1]

Non-Beamforming

Band	Mode	BWch (MHz)	Nant
5.25-5.35GHz	802.11a	20	2TX
5.47-5.725GHz	802.11a	20	2TX
5.725-5.85GHz	802.11a	20	2TX
5.25-5.35GHz	802.11n HT20	20	2TX
5.47-5.725GHz	802.11n HT20	20	2TX
5.725-5.85GHz	802.11n HT20	20	2TX
5.25-5.35GHz	802.11n HT40	40	2TX
5.47-5.725GHz	802.11n HT40	40	2TX
5.725-5.85GHz	802.11n HT40	40	2TX
5.25-5.35GHz	802.11ac VHT20	20	2TX
5.47-5.725GHz	802.11ac VHT20	20	2TX
5.725-5.85GHz	802.11ac VHT20	20	2TX
5.25-5.35GHz	802.11ac VHT40	40	2TX
5.47-5.725GHz	802.11ac VHT40	40	2TX
5.725-5.85GHz	802.11ac VHT40	40	2TX
5.25-5.35GHz	802.11ac VHT80	80	2TX
5.47-5.725GHz	802.11ac VHT80	80	2TX
5.725-5.85GHz	802.11ac VHT80	80	2TX
5.25-5.35GHz	802.11ax HEW20	20	2TX



Band	Mode	BWch (MHz)	Nant
5.47-5.725GHz	802.11ax HEW20	20	2TX
5.725-5.85GHz	802.11ax HEW20	20	2TX
5.25-5.35GHz	802.11ax HEW40	40	2TX
5.47-5.725GHz	802.11ax HEW40	40	2TX
5.725-5.85GHz	802.11ax HEW40	40	2TX
5.25-5.35GHz	802.11ax HEW80	80	2TX
5.47-5.725GHz	802.11ax HEW80	80	2TX
5.725-5.85GHz	802.11ax HEW80	80	2TX

Beamforming

Band	Mode	BWch (MHz)	Nant
5.25-5.35GHz	802.11ax HEW20-BF	20	2TX
5.47-5.725GHz	802.11ax HEW20-BF	20	2TX
5.725-5.85GHz	802.11ax HEW20-BF	20	2TX
5.25-5.35GHz	802.11ax HEW40-BF	40	2TX
5.47-5.725GHz	802.11ax HEW40-BF	40	2TX
5.725-5.85GHz	802.11ax HEW40-BF	40	2TX
5.25-5.35GHz	802.11ax HEW80-BF	80	2TX
5.47-5.725GHz	802.11ax HEW80-BF	80	2TX
5.725-5.85GHz	802.11ax HEW80-BF	80	2TX

**Radio2(Low Band)+Radio3(High Band)**

Frequency Range (MHz)	IEEE Std. 802.11	Ch. Frequency (MHz)	Channel Number
5250-5350	a, n (HT20), ac (VHT20), ax(HEW20)	5260-5320	52-64 [4]
5470-5725		5500-5700	100-140 [11]
Straddle 5720		5720	144 [1]
5250-5350	n (HT40), ac (VHT40), ax(HEW40)	5270-5310	54-62 [2]
5470-5725		5510-5670	102-134 [5]
Straddle 5710		5710	142 [1]
5250-5350	ac (VHT80), ax(HEW80)	5290	58 [1]
5470-5725		5530-5610	106-122 [2]
Straddle 5690		5690	138 [1]
5470-5725	ac (VHT160), ax (HEW160)	5570	114 [1]

Non-Beamforming

Band	Mode	BWch (MHz)	Nant
5.25-5.35GHz	802.11a	20	2TX
5.47-5.725GHz	802.11a	20	2TX
5.725-5.85GHz	802.11a	20	2TX
5.25-5.35GHz	802.11n HT20	20	2TX
5.47-5.725GHz	802.11n HT20	20	2TX
5.725-5.85GHz	802.11n HT20	20	2TX
5.25-5.35GHz	802.11n HT40	40	2TX
5.47-5.725GHz	802.11n HT40	40	2TX
5.725-5.85GHz	802.11n HT40	40	2TX
5.25-5.35GHz	802.11ac VHT20	20	2TX
5.47-5.725GHz	802.11ac VHT20	20	2TX
5.725-5.85GHz	802.11ac VHT20	20	2TX
5.25-5.35GHz	802.11ac VHT40	40	2TX
5.47-5.725GHz	802.11ac VHT40	40	2TX
5.725-5.85GHz	802.11ac VHT40	40	2TX
5.25-5.35GHz	802.11ac VHT80	80	2TX
5.47-5.725GHz	802.11ac VHT80	80	2TX
5.725-5.85GHz	802.11ac VHT80	80	2TX
5.47-5.725GHz	802.11ac VHT160	160	2TX
5.25-5.35GHz	802.11ax HEW20	20	2TX
5.47-5.725GHz	802.11ax HEW20	20	2TX
5.725-5.85GHz	802.11ax HEW20	20	2TX



Band	Mode	BWch (MHz)	Nant
5.25-5.35GHz	802.11ax HEW40	40	2TX
5.47-5.725GHz	802.11ax HEW40	40	2TX
5.725-5.85GHz	802.11ax HEW40	40	2TX
5.25-5.35GHz	802.11ax HEW80	80	2TX
5.47-5.725GHz	802.11ax HEW80	80	2TX
5.725-5.85GHz	802.11ax HEW80	80	2TX
5.47-5.725GHz	802.11ax HEW160	160	2TX

Beamforming

Band	Mode	BWch (MHz)	Nant
5.25-5.35GHz	802.11ax HEW20-BF	20	2TX
5.47-5.725GHz	802.11ax HEW20-BF	20	2TX
5.725-5.85GHz	802.11ax HEW20-BF	20	2TX
5.25-5.35GHz	802.11ax HEW40-BF	40	2TX
5.47-5.725GHz	802.11ax HEW40-BF	40	2TX
5.725-5.85GHz	802.11ax HEW40-BF	40	2TX
5.25-5.35GHz	802.11ax HEW80-BF	80	2TX
5.47-5.725GHz	802.11ax HEW80-BF	80	2TX
5.725-5.85GHz	802.11ax HEW80-BF	80	2TX
5.47-5.725GHz	802.11ax HEW160-BF	160	2TX

**Radio3**

Frequency Range (MHz)	IEEE Std. 802.11	Ch. Frequency (MHz)	Channel Number
5250-5350	a, n (HT20), ac (VHT20), ax(HEW20)	5260-5320	52-64 [4]
5470-5725		5500-5700	100-140 [11]
Straddle 5720		5720	144 [1]
5250-5350	n (HT40), ac (VHT40), ax(HEW40)	5270-5310	54-62 [2]
5470-5725		5510-5670	102-134 [5]
Straddle 5710		5710	142 [1]
5250-5350	ac (VHT80), ax(HEW80)	5290	58 [1]
5470-5725		5530-5610	106-122 [2]
Straddle 5690		5690	138 [1]
5150-5250	ac (VHT160), ax (HEW160)	5250	50 [1]
5470-5725		5570	114 [1]

Non-Beamforming

Band	Mode	BWch (MHz)	Nant
5.25-5.35GHz	802.11a	20	2TX
5.47-5.725GHz	802.11a	20	2TX
5.725-5.85GHz	802.11a	20	2TX
5.25-5.35GHz	802.11n HT20	20	2TX
5.47-5.725GHz	802.11n HT20	20	2TX
5.725-5.85GHz	802.11n HT20	20	2TX
5.25-5.35GHz	802.11n HT40	40	2TX
5.47-5.725GHz	802.11n HT40	40	2TX
5.725-5.85GHz	802.11n HT40	40	2TX
5.25-5.35GHz	802.11ac VHT20	20	2TX
5.47-5.725GHz	802.11ac VHT20	20	2TX
5.725-5.85GHz	802.11ac VHT20	20	2TX
5.25-5.35GHz	802.11ac VHT40	40	2TX
5.47-5.725GHz	802.11ac VHT40	40	2TX
5.725-5.85GHz	802.11ac VHT40	40	2TX
5.25-5.35GHz	802.11ac VHT80	80	2TX
5.47-5.725GHz	802.11ac VHT80	80	2TX
5.725-5.85GHz	802.11ac VHT80	80	2TX
5.15-5.25GHz	802.11ac VHT160	160	2TX
5.25-5.35GHz	802.11ac VHT160	160	2TX
5.47-5.725GHz	802.11ac VHT160	160	2TX
5.25-5.35GHz	802.11ax HEW20	20	2TX

Band	Mode	BWch (MHz)	Nant
5.47-5.725GHz	802.11ax HEW20	20	2TX
5.725-5.85GHz	802.11ax HEW20	20	2TX
5.25-5.35GHz	802.11ax HEW40	40	2TX
5.47-5.725GHz	802.11ax HEW40	40	2TX
5.725-5.85GHz	802.11ax HEW40	40	2TX
5.25-5.35GHz	802.11ax HEW80	80	2TX
5.47-5.725GHz	802.11ax HEW80	80	2TX
5.725-5.85GHz	802.11ax HEW80	80	2TX
5.15-5.25GHz	802.11ax HEW160	160	2TX
5.25-5.35GHz	802.11ax HEW160	160	2TX
5.47-5.725GHz	802.11ax HEW160	160	2TX

Beamforming

Band	Mode	BWch (MHz)	Nant
5.25-5.35GHz	802.11ax HEW20-BF	20	2TX
5.47-5.725GHz	802.11ax HEW20-BF	20	2TX
5.725-5.85GHz	802.11ax HEW20-BF	20	2TX
5.25-5.35GHz	802.11ax HEW40-BF	40	2TX
5.47-5.725GHz	802.11ax HEW40-BF	40	2TX
5.725-5.85GHz	802.11ax HEW40-BF	40	2TX
5.25-5.35GHz	802.11ax HEW80-BF	80	2TX
5.47-5.725GHz	802.11ax HEW80-BF	80	2TX
5.725-5.85GHz	802.11ax HEW80-BF	80	2TX
5.15-5.25GHz	802.11ax HEW160-BF	160	2TX
5.25-5.35GHz	802.11ax HEW160-BF	160	2TX
5.47-5.725GHz	802.11ax HEW160-BF	160	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.

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
TPC Function	☒ With TPC Function	☐	Without TPC Function
Weather Band	☒ With 5600~5650MHz	☐	Without 5600~5650MHz
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

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

**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
802.11ac VHT160_Nss1,(MCS0)_2TX	0.898	0.47	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
802.11ax HEW160_Nss1,(MCS0)_2TX	0.929	0.32	5.447m	300

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

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
802.11ac VHT160_Nss1,(MCS0)_2TX	0.904	0.44	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
802.11ax HEW160_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.

**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

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

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
802.11ax HEW160-BF_Nss1,(MCS0)_2TX	0.929	0.32	5.447m	300

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

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.



1.1.6 Table for Permissive Change

This product is an extension of original one reported under Sporton project number: FR262434AN

Below is the table for the change of the product with respect to the original one.

Modifications	Performance Checking
1. Adding DFS bands of operation (5250MHz~5350MHz and 5470MHz~5725MHz) by software. 2. Adding an absorber on QCN9072. 3. Changing radio 2(5GHz) capacitors (C466, C467, C492, C395, C396, C434) from bottom side to the top side, and capacitance from 47pF to 100nF.	Emission Bandwidth, Maximum Conducted Output Power, Peak Power Spectral Density and Unwanted Emissions above 1GHz were evaluated

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
RF Conducted	TH01-HY	Johnny Yu	20.6~26.9°C / 50~60%	26/Aug/2022~19/Oct/2022
RF Conducted	TH07-HY	Yuna Lin	22.5~23.6°C / 51~62%	21/Mar/2023~20/Apr/2023
Radiated	03CH02-HY	Daniel Lin	22.4~26.1°C / 53~64%	10/Aug/2022~20/Sep/2022
Radiated	03CH02-HY	Daniel Lin	20.5~22.1°C / 56~61%	07/Mar/2023~19/Apr/2023
☐ 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
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	-
5260MHz	21.5
5300MHz	21
5320MHz	18.5
5500MHz	21
5580MHz	19
5700MHz	17
5720MHz Straddle 5.47-5.725GHz	17.5
5720MHz Straddle 5.725-5.85GHz	17.5
802.11n HT20_Nss1,(MCS0)_2TX	-
5260MHz	22
5300MHz	22
5320MHz	20
5500MHz	22
5580MHz	20.5
5700MHz	20
5720MHz Straddle 5.47-5.725GHz	21
5720MHz Straddle 5.725-5.85GHz	21
802.11n HT40_Nss1,(MCS0)_2TX	-
5270MHz	22.5
5310MHz	18.5
5510MHz	20.5
5550MHz	21
5670MHz	20
5710MHz Straddle 5.47-5.725GHz	22.5
5710MHz Straddle 5.725-5.85GHz	22.5
802.11ac VHT20_Nss1,(MCS0)_2TX	-
5260MHz	22
5300MHz	22
5320MHz	20



Mode	Power Setting
5500MHz	22
5580MHz	20.5
5700MHz	20
5720MHz Straddle 5.47-5.725GHz	21
5720MHz Straddle 5.725-5.85GHz	21
802.11ac VHT40_Nss1,(MCS0)_2TX	-
5270MHz	23
5310MHz	18.5
5510MHz	20.5
5550MHz	21
5670MHz	20
5710MHz Straddle 5.47-5.725GHz	22.5
5710MHz Straddle 5.725-5.85GHz	22.5
802.11ac VHT80_Nss1,(MCS0)_2TX	-
5290MHz	17
5530MHz	17.5
5610MHz	22
5690MHz Straddle 5.47-5.725GHz	23
5690MHz Straddle 5.725-5.85GHz	23
802.11ax HEW20_Nss1,(MCS0)_2TX	-
5260MHz	22.5
5300MHz	22
5320MHz	20
5500MHz	22
5580MHz	20.5
5700MHz	20
5720MHz Straddle 5.47-5.725GHz	21
5720MHz Straddle 5.725-5.85GHz	21
802.11ax HEW40_Nss1,(MCS0)_2TX	-
5270MHz	23
5310MHz	18.5
5510MHz	20.5
5550MHz	21
5670MHz	20
5710MHz Straddle 5.47-5.725GHz	22.5
5710MHz Straddle 5.725-5.85GHz	22.5



Mode	Power Setting
802.11ax HEW80_Nss1,(MCS0)_2TX	-
5290MHz	17
5530MHz	17.5
5610MHz	22
5690MHz Straddle 5.47-5.725GHz	23
5690MHz Straddle 5.725-5.85GHz	23

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

Test Software Version	QDART-Connectivity1.0-00081
------------------------------	-----------------------------

Mode	Power Setting
802.11a_Nss1,(6Mbps)_2TX	-
5260MHz	21
5300MHz	20.5
5320MHz	20
5500MHz	19.5
5580MHz	20
5700MHz	18
5720MHz Straddle 5.47-5.725GHz	20
5720MHz Straddle 5.725-5.85GHz	20
802.11n HT20_Nss1,(MCS0)_2TX	-
5260MHz	21.5
5300MHz	21
5320MHz	21
5500MHz	17
5580MHz	20
5700MHz	18.5
5720MHz Straddle 5.47-5.725GHz	20
5720MHz Straddle 5.725-5.85GHz	20
802.11n HT40_Nss1,(MCS0)_2TX	-
5270MHz	22.5
5310MHz	20.5
5510MHz	18
5550MHz	21.5
5670MHz	18
5710MHz Straddle 5.47-5.725GHz	22.5
5710MHz Straddle 5.725-5.85GHz	22.5
802.11ac VHT20_Nss1,(MCS0)_2TX	-
5260MHz	21.5
5300MHz	21
5320MHz	21
5500MHz	17
5580MHz	20
5700MHz	18.5
5720MHz Straddle 5.47-5.725GHz	20



Mode	Power Setting
5720MHz Straddle 5.725-5.85GHz	20
802.11ac VHT40_Nss1,(MCS0)_2TX	-
5270MHz	22.5
5310MHz	20.5
5510MHz	18
5550MHz	21.5
5670MHz	18
5710MHz Straddle 5.47-5.725GHz	22.5
5710MHz Straddle 5.725-5.85GHz	22.5
802.11ac VHT80_Nss1,(MCS0)_2TX	-
5290MHz	20.5
5530MHz	18.5
5610MHz	20
5690MHz Straddle 5.47-5.725GHz	23
5690MHz Straddle 5.725-5.85GHz	23
802.11ac VHT160_Nss1,(MCS0)_2TX	-
5570MHz	18.5
802.11ax HEW20_Nss1,(MCS0)_2TX	-
5260MHz	21.5
5300MHz	21
5320MHz	21
5500MHz	17
5580MHz	20
5700MHz	18.5
5720MHz Straddle 5.47-5.725GHz	20
5720MHz Straddle 5.725-5.85GHz	20
802.11ax HEW40_Nss1,(MCS0)_2TX	-
5270MHz	22.5
5310MHz	20.5
5510MHz	18
5550MHz	21.5
5670MHz	18
5710MHz Straddle 5.47-5.725GHz	22.5
5710MHz Straddle 5.725-5.85GHz	22.5
802.11ax HEW80_Nss1,(MCS0)_2TX	-
5290MHz	20.5



Mode	Power Setting
5530MHz	18.5
5610MHz	20
5690MHz Straddle 5.47-5.725GHz	23
5690MHz Straddle 5.725-5.85GHz	23
802.11ax HEW160_Nss1,(MCS0)_2TX	-
5570MHz	18.5

**Non-Beamforming_Radio3**

Test Software Version	QDART-Connectivity1.0-00081
------------------------------	-----------------------------

Mode	Power Setting
802.11a_Nss1,(6Mbps)_2TX	-
5260MHz	19
5300MHz	19
5320MHz	19
5500MHz	19.5
5580MHz	19.5
5700MHz	19
5720MHz Straddle 5.47-5.725GHz	19.5
5720MHz Straddle 5.725-5.85GHz	19.5
802.11n HT20_Nss1,(MCS0)_2TX	-
5260MHz	19
5300MHz	19
5320MHz	18.5
5500MHz	17.5
5580MHz	20
5700MHz	18.5
5720MHz Straddle 5.47-5.725GHz	20
5720MHz Straddle 5.725-5.85GHz	20
802.11n HT40_Nss1,(MCS0)_2TX	-
5270MHz	21
5310MHz	17.5
5510MHz	17
5550MHz	21
5670MHz	18
5710MHz Straddle 5.47-5.725GHz	21
5710MHz Straddle 5.725-5.85GHz	21
802.11ac VHT20_Nss1,(MCS0)_2TX	-
5260MHz	19
5300MHz	19
5320MHz	18.5
5500MHz	17.5
5580MHz	20
5700MHz	18.5
5720MHz Straddle 5.47-5.725GHz	20



Mode	Power Setting
5720MHz Straddle 5.725-5.85GHz	20
802.11ac VHT40_Nss1,(MCS0)_2TX	-
5270MHz	21
5310MHz	17.5
5510MHz	17
5550MHz	21
5670MHz	18
5710MHz Straddle 5.47-5.725GHz	21
5710MHz Straddle 5.725-5.85GHz	21
802.11ac VHT80_Nss1,(MCS0)_2TX	-
5290MHz	16
5530MHz	18.5
5610MHz	19.5
5690MHz Straddle 5.47-5.725GHz	21
5690MHz Straddle 5.725-5.85GHz	21
802.11ac VHT160_Nss1,(MCS0)_2TX	-
5250MHz Straddle 5.15-5.25GHz	16
5250MHz Straddle 5.25-5.35GHz	16
5570MHz	17.5
802.11ax HEW20_Nss1,(MCS0)_2TX	-
5260MHz	19
5300MHz	19
5320MHz	18.5
5500MHz	17.5
5580MHz	20
5700MHz	18.5
5720MHz Straddle 5.47-5.725GHz	19.5
5720MHz Straddle 5.725-5.85GHz	19.5
802.11ax HEW40_Nss1,(MCS0)_2TX	-
5270MHz	21
5310MHz	17.5
5510MHz	17
5550MHz	21
5670MHz	18
5710MHz Straddle 5.47-5.725GHz	21
5710MHz Straddle 5.725-5.85GHz	21



Mode	Power Setting
802.11ax HEW80_Nss1,(MCS0)_2TX	-
5290MHz	16
5530MHz	18.5
5610MHz	19.5
5690MHz Straddle 5.47-5.725GHz	21
5690MHz Straddle 5.725-5.85GHz	21
802.11ax HEW160_Nss1,(MCS0)_2TX	-
5250MHz Straddle 5.15-5.25GHz	16
5250MHz Straddle 5.25-5.35GHz	16
5570MHz	17.5

**Beamforming_Radio2**

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

Mode	Power Setting
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	-
5260MHz	21
5300MHz	20.5
5320MHz	20
5500MHz	21
5580MHz	20
5700MHz	20
5720MHz Straddle 5.47-5.725GHz	20.5
5720MHz Straddle 5.725-5.85GHz	20.5
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-
5270MHz	20.5
5310MHz	18.5
5510MHz	20.5
5550MHz	19
5670MHz	20
5710MHz Straddle 5.47-5.725GHz	20.5
5710MHz Straddle 5.725-5.85GHz	20.5
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	-
5290MHz	17
5530MHz	17.5
5610MHz	20.5
5690MHz Straddle 5.47-5.725GHz	20.5
5690MHz Straddle 5.725-5.85GHz	20.5

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

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

Mode	Power Setting
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	-
5260MHz	21
5300MHz	20.5
5320MHz	20
5500MHz	17
5580MHz	19
5700MHz	18.5
5720MHz Straddle 5.47-5.725GHz	20
5720MHz Straddle 5.725-5.85GHz	20
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-
5270MHz	20.5
5310MHz	20
5510MHz	18
5550MHz	20
5670MHz	18
5710MHz Straddle 5.47-5.725GHz	20.5
5710MHz Straddle 5.725-5.85GHz	20.5
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	-
5290MHz	20.5
5530MHz	18.5
5610MHz	19.5
5690MHz Straddle 5.47-5.725GHz	19
5690MHz Straddle 5.725-5.85GHz	19
802.11ax HEW160-BF_Nss1,(MCS0)_2TX	-
5570MHz	18.5

**Beamforming_Radio3**

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

Mode	Power Setting
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	-
5260MHz	18
5300MHz	18
5320MHz	18
5500MHz	17.5
5580MHz	18.5
5700MHz	18.5
5720MHz Straddle 5.47-5.725GHz	19.5
5720MHz Straddle 5.725-5.85GHz	19.5
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-
5270MHz	19
5310MHz	17.5
5510MHz	17
5550MHz	19
5670MHz	18
5710MHz Straddle 5.47-5.725GHz	19.5
5710MHz Straddle 5.725-5.85GHz	19.5
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	-
5290MHz	16
5530MHz	18.5
5610MHz	19
5690MHz Straddle 5.47-5.725GHz	19
5690MHz Straddle 5.725-5.85GHz	19
802.11ax HEW160-BF_Nss1,(MCS0)_2TX	-
5250MHz Straddle 5.15-5.25GHz	16
5250MHz Straddle 5.25-5.35GHz	16
5570MHz	17.5

2.2 The Worst Case Measurement Configuration

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
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.: FA262434-01 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

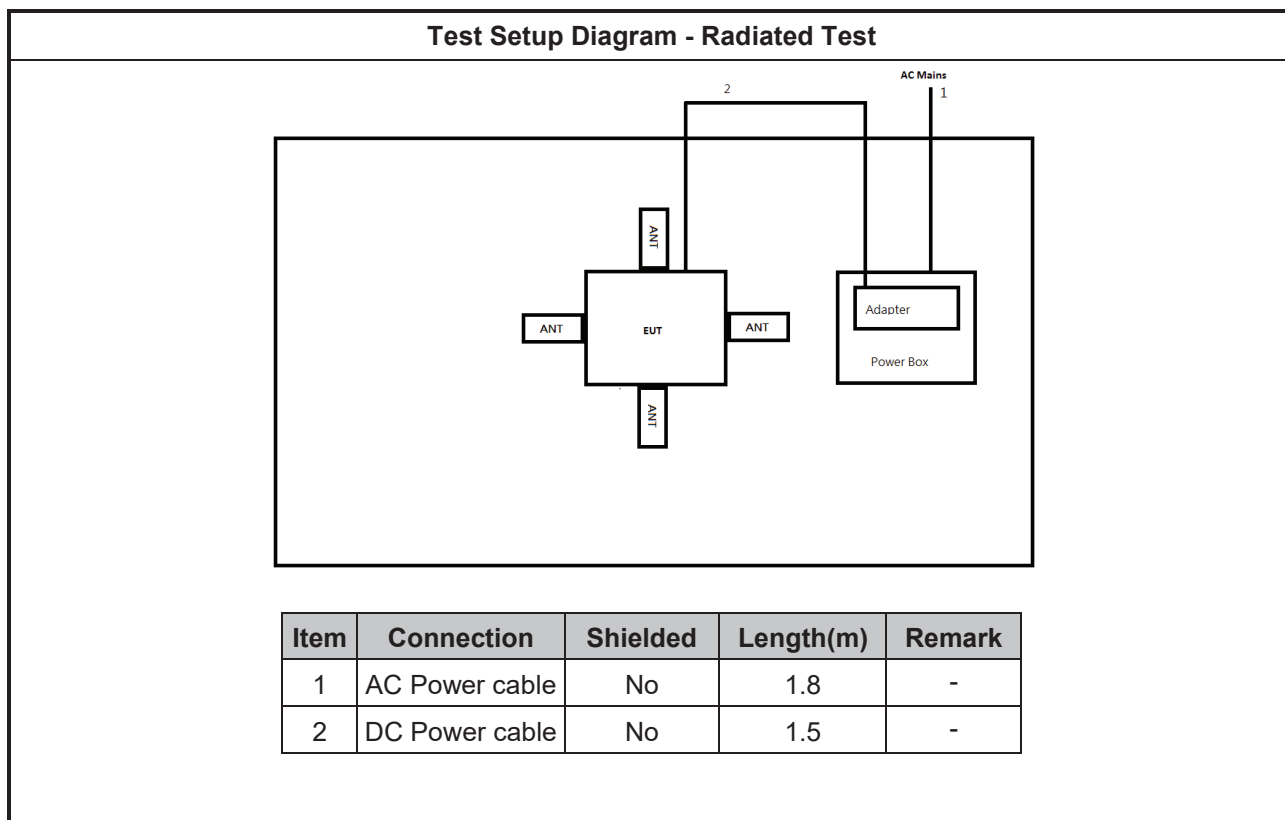
Reminder: Regarding to more detail and other information, please refer to user manual.

2.4 Support Equipment

Support Equipment – 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 Emission Bandwidth

3.1.1 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.

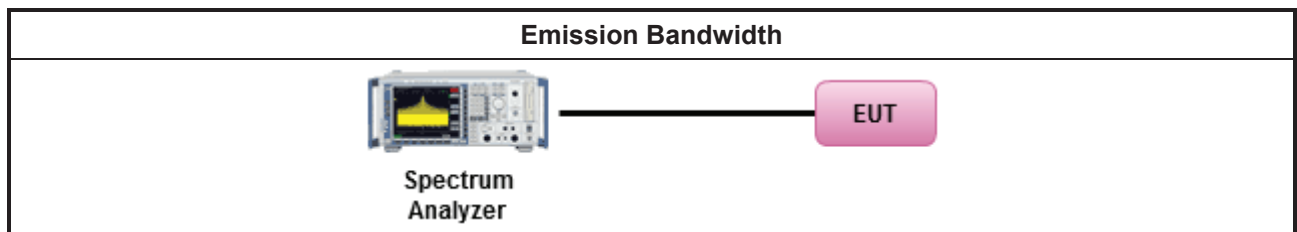
3.1.2 Measuring Instruments

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

3.1.3 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.

3.1.4 Test Setup



3.1.5 Test Result of Emission Bandwidth

Refer as Appendix A

3.2 Maximum Conducted Output Power

3.2.1 Maximum Conducted Output Power Limit

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

3.2.2 Measuring Instruments

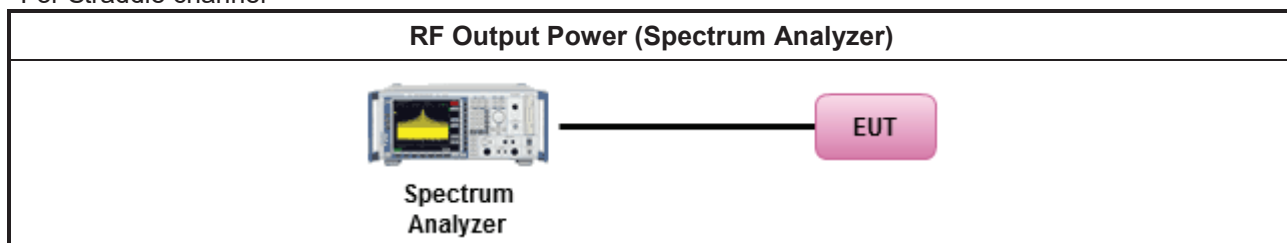
Refer a test equipment and calibration data table in this test report.

3.2.3 Test Procedures

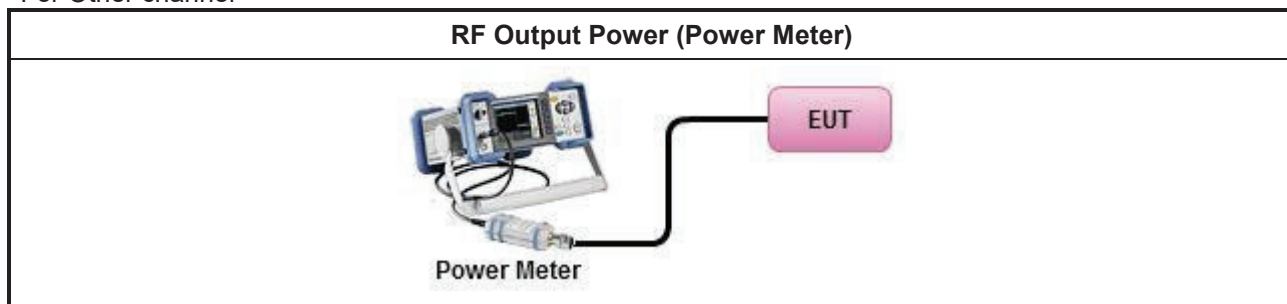
Test Method	
Maximum Conducted Output Power	
	Duty cycle $\geq 98\%$
	☐ Refer as KDB 789033, clause E Method SA-2 (spectral trace averaging).
	Duty cycle $< 98\%$
	☒ Refer as KDB 789033, clause E Method SA-2 Alt. (RMS detection with slow sweep speed)
	Wideband RF power meter and average over on/off periods 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: $P_{\text{total}} = P_1 + P_2 + \dots + P_n$ (calculated in linear unit [mW] and transfer to log unit [dBm]) $\text{EIRP}_{\text{total}} = P_{\text{total}} + \text{DG}$

3.2.4 Test Setup

For Straddle channel



For Other channel



3.2.5 Test Result of Maximum Conducted Output Power

Refer as Appendix B

3.3 Peak Power Spectral Density

3.3.1 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 the 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.	

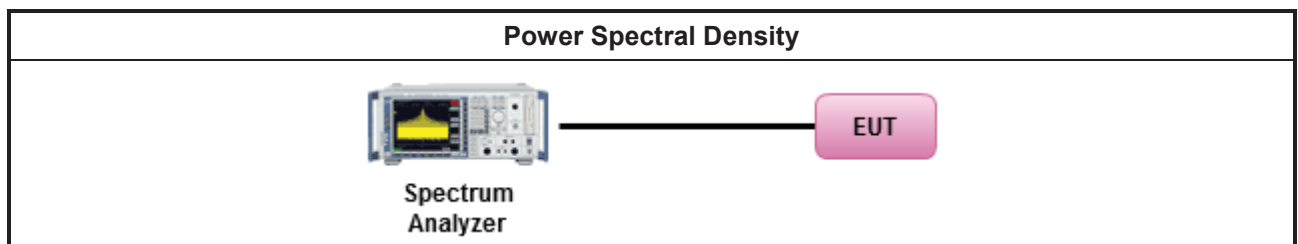
3.3.2 Measuring Instruments

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

3.3.3 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]) $EIRP_{total} = PPSD_{total} + DG$	

3.3.4 Test Setup



3.3.5 Test Result of Peak Power Spectral Density

Refer as Appendix C

3.4 Unwanted Emissions

3.4.1 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).

3.4.2 Measuring Instruments

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

3.4.3 Test Procedures

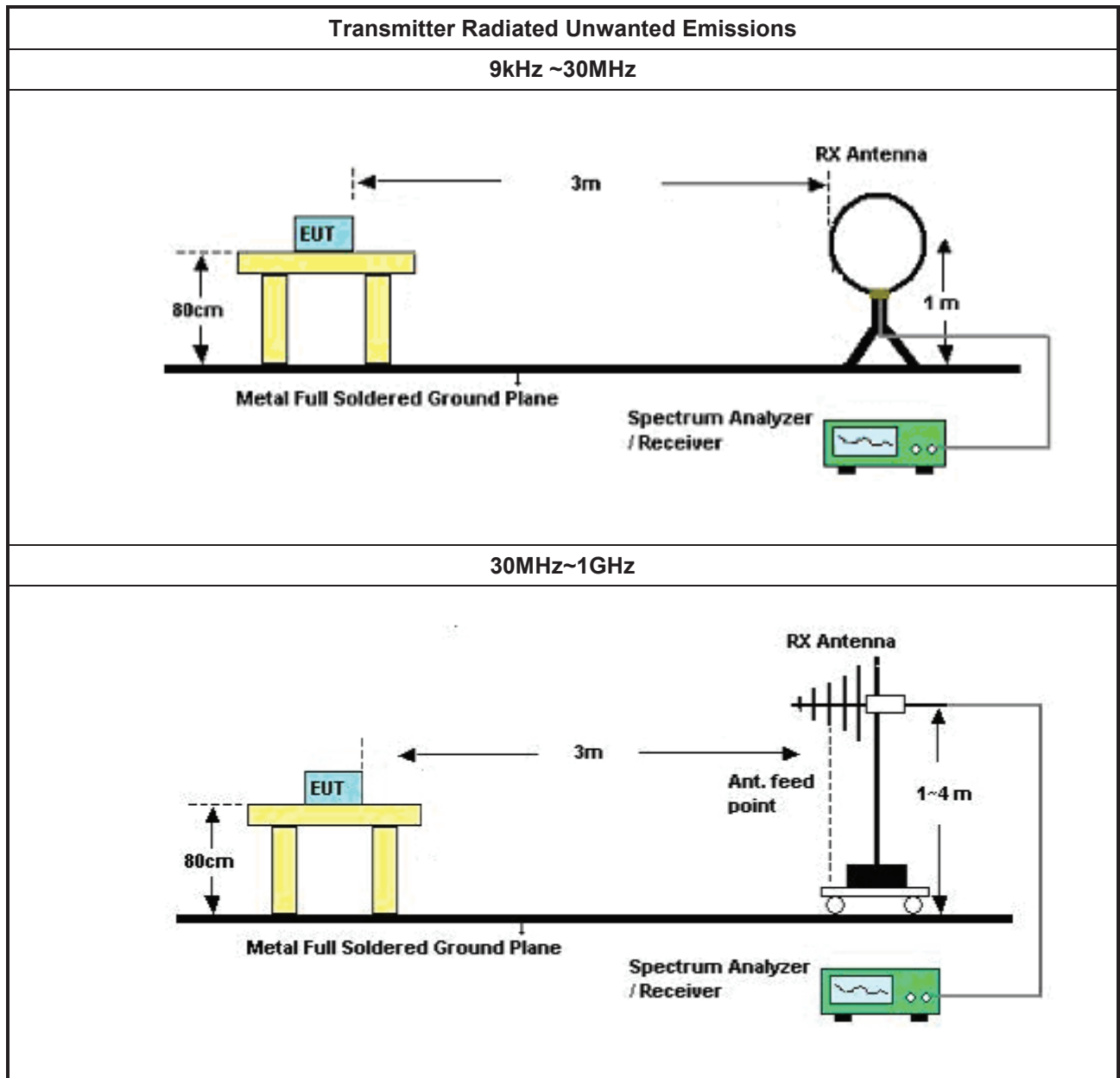
Test Method	
Measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. Measurements shall not be performed at a distance greater than 30 m for frequencies above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

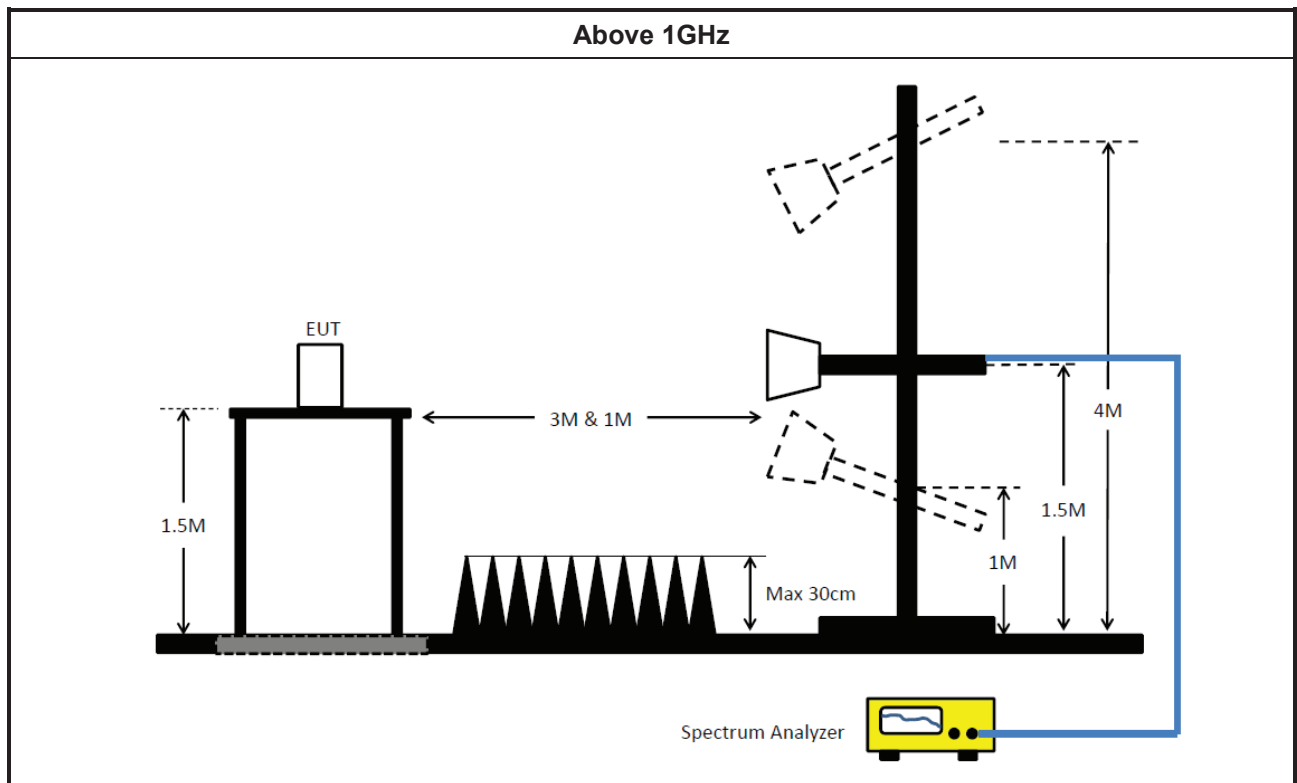
3.4.4 Measurement Results Calculation

The measured Level is calculated using:

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

3.4.5 Test Setup





3.4.6 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.

3.4.7 Test Result of Transmitter Unwanted Emissions

Refer as Appendix D

4 Test Equipment and Calibration Data

Instrument for Conducted Test

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
Signal Analyzer	R&S	FSV 40	101515	10Hz~40GHz	14/Feb/2023	13/Feb/2024
SMB100A Signal Generator	R&S	SMB100A	181147	100kHz~40GHz	21/Oct/2022	20/Oct/2023
Pulse Sensor	Anritsu	MA2411B	1339407	300MHz~40GHz	14/Dec/2022	13/Dec/2023
Power Meter	Anritsu	ML2495A	1517010	300MHz~40GHz	14/Dec/2022	13/Dec/2023
SENSE-15407_NII	Sporton	V5.10.8.7.1	N/A	N/A	N/A	N/A
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	1GHz~18GHz 3m	30/Jul/2022	29/Jul/2023
Signal Analyzer	R&S	FSP40	100593	9kHz~40GHz	08/Apr/2022	07/Apr/2023
Signal Analyzer	ROHDE & SCHWARZ	FSV3044	101410	10Hz~44GHz	02/Nov/2022	01/Nov/2023
Microwave Preamplifier	Agilent	8449B	3008A02373	1GHz~26.5GHz	03/Nov/2021	02/Nov/2022
Microwave Preamplifier	Agilent	8449B	3008A02373	1GHz~26.5GHz	02/Nov/2022	01/Nov/2023
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	02744	1GHz ~18GHz	09/Aug/2022	08/Aug/2023
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	02268	1GHz ~18GHz	14/Sep/2021	13/Sep/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
RF Cable-R03m	HUBER+SUHNER	SUCOFLEX104	03CH02-cable-01	1GHz~40GHz	10/Feb/2023	09/Feb/2024
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA 9170221	15GHz~40GHz	18/Mar/2022	17/Mar/2023
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	01248	18GHz~40GHz	22/Aug/2022	21/Aug/2023
Microwave Premplifier	EMC INSTRUMENTS	EM18G40G	060604	18GHz~40GHz	08/Mar/2022	07/Mar/2023
Amplifier	EM	EM18G40GA	060874	18GHz ~40GHz	23/Aug/2022	22/Aug/2023
SENSE-15407_NII	Sporton	V5.10.8.5	N/A	N/A	N/A	N/A
SENSE-15407_NII	Sporton	V5.11	N/A	N/A	N/A	N/A

Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.25-5.35GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	20.55M	16.388M	16M4D1D	20.4M	16.337M
802.11n HT20_Nss1,(MCS0)_2TX	21.57M	17.602M	17M6D1D	20.88M	17.572M
802.11n HT40_Nss1,(MCS0)_2TX	41.16M	36.203M	36M2D1D	40.68M	36.085M
802.11ac VHT20_Nss1,(MCS0)_2TX	21.66M	17.602M	17M6D1D	21.03M	17.543M
802.11ac VHT40_Nss1,(MCS0)_2TX	41.16M	36.203M	36M2D1D	40.56M	36.085M
802.11ac VHT80_Nss1,(MCS0)_2TX	82.56M	75.461M	75M5D1D	82.2M	75.461M
802.11ax HEW20_Nss1,(MCS0)_2TX	21.81M	18.924M	18M9D1D	21.15M	18.865M
802.11ax HEW40_Nss1,(MCS0)_2TX	41.4M	37.731M	37M7D1D	40.86M	37.672M
802.11ax HEW80_Nss1,(MCS0)_2TX	83.04M	77.107M	77M1D1D	82.68M	76.99M
5.47-5.725GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	20.61M	16.388M	16M4D1D	15.285M	13.193M
802.11n HT20_Nss1,(MCS0)_2TX	21.51M	17.591M	17M6D1D	15.735M	13.763M
802.11n HT40_Nss1,(MCS0)_2TX	43.54M	36.144M	36M1D1D	35.49M	32.954M
802.11ac VHT20_Nss1,(MCS0)_2TX	21.56M	17.602M	17M6D1D	15.48M	13.763M
802.11ac VHT40_Nss1,(MCS0)_2TX	42.525M	36.144M	36M1D1D	35.77M	32.954M
802.11ac VHT80_Nss1,(MCS0)_2TX	103.68M	75.579M	75M6D1D	76.5M	72.114M
802.11ax HEW20_Nss1,(MCS0)_2TX	21.93M	18.924M	18M9D1D	15.585M	14.393M
802.11ax HEW40_Nss1,(MCS0)_2TX	41.4M	37.781M	37M8D1D	36.12M	33.758M
802.11ax HEW80_Nss1,(MCS0)_2TX	91.275M	77.342M	77M3D1D	76.425M	73.163M
5.725-5.85GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	3.12M	3.598M	3M60D1D	3.12M	3.598M
802.11n HT20_Nss1,(MCS0)_2TX	3.78M	4.118M	4M12D1D	3.34M	4.118M
802.11n HT40_Nss1,(MCS0)_2TX	3.2M	19.07M	19M1D1D	3.16M	7.816M
802.11ac VHT20_Nss1,(MCS0)_2TX	3.76M	4.138M	4M14D1D	3.4M	4.118M
802.11ac VHT40_Nss1,(MCS0)_2TX	3.24M	19.39M	19M4D1D	3.14M	8.096M
802.11ac VHT80_Nss1,(MCS0)_2TX	3.16M	34.663M	34M7D1D	3.14M	25.047M
802.11ax HEW20_Nss1,(MCS0)_2TX	4.32M	4.578M	4M58D1D	2.86M	4.578M
802.11ax HEW40_Nss1,(MCS0)_2TX	4.12M	22.489M	22M5D1D	4.02M	13.553M
802.11ax HEW80_Nss1,(MCS0)_2TX	3.98M	36.082M	36M1D1D	3.84M	29.625M

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	-	-	-	-	-	-
5260MHz	Pass	Inf	20.4M	16.363M	20.49M	16.337M
5300MHz	Pass	Inf	20.52M	16.363M	20.49M	16.363M
5320MHz	Pass	Inf	20.4M	16.363M	20.55M	16.388M
5500MHz	Pass	Inf	20.35M	16.382M	20.35M	16.382M
5580MHz	Pass	Inf	20.57M	16.382M	19.855M	16.382M
5700MHz	Pass	Inf	20.61M	16.388M	20.55M	16.363M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	15.315M	13.193M	15.285M	13.193M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	3.12M	3.598M	3.12M	3.598M
802.11n HT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5260MHz	Pass	Inf	21.3M	17.572M	21.57M	17.572M
5300MHz	Pass	Inf	21.03M	17.572M	21.15M	17.602M
5320MHz	Pass	Inf	20.88M	17.572M	21.24M	17.572M
5500MHz	Pass	Inf	20.9M	17.591M	20.515M	17.566M
5580MHz	Pass	Inf	20.515M	17.566M	20.735M	17.566M
5700MHz	Pass	Inf	21.39M	17.572M	21.51M	17.572M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	15.915M	13.763M	15.735M	13.793M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	3.78M	4.118M	3.34M	4.118M
802.11n HT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5270MHz	Pass	Inf	41.16M	36.144M	41.04M	36.203M
5310MHz	Pass	Inf	40.68M	36.085M	40.68M	36.085M
5510MHz	Pass	Inf	40.92M	36.082M	40.15M	36.082M
5550MHz	Pass	Inf	41.25M	36.082M	40.15M	36.082M
5670MHz	Pass	Inf	40.98M	36.085M	40.68M	36.144M
5710MHz Straddle 5.47-5.725GHz	Pass	Inf	43.54M	33.093M	35.49M	32.954M
5710MHz Straddle 5.725-5.85GHz	Pass	500k	3.2M	19.07M	3.16M	7.816M
802.11ac VHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5260MHz	Pass	Inf	21.06M	17.572M	21.24M	17.543M
5300MHz	Pass	Inf	21.03M	17.572M	21.27M	17.602M
5320MHz	Pass	Inf	21.66M	17.572M	21.03M	17.572M
5500MHz	Pass	Inf	20.845M	17.591M	21.56M	17.591M
5580MHz	Pass	Inf	20.9M	17.566M	21.065M	17.566M
5700MHz	Pass	Inf	21.42M	17.602M	21.45M	17.572M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	15.48M	13.763M	15.615M	13.778M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	3.76M	4.118M	3.4M	4.138M
802.11ac VHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5270MHz	Pass	Inf	40.98M	36.203M	40.56M	36.144M
5310MHz	Pass	Inf	41.16M	36.085M	40.92M	36.085M
5510MHz	Pass	Inf	41.03M	36.082M	40.59M	36.082M
5550MHz	Pass	Inf	40.48M	36.132M	40.81M	36.082M
5670MHz	Pass	Inf	40.8M	36.144M	40.14M	36.085M
5710MHz Straddle 5.47-5.725GHz	Pass	Inf	42.525M	33.093M	35.77M	32.954M
5710MHz Straddle 5.725-5.85GHz	Pass	500k	3.24M	19.39M	3.14M	8.096M
802.11ac VHT80_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5290MHz	Pass	Inf	82.2M	75.461M	82.56M	75.461M
5530MHz	Pass	Inf	81.72M	75.226M	81.36M	75.109M
5610MHz	Pass	Inf	103.68M	75.579M	81.6M	75.226M
5690MHz Straddle 5.47-5.725GHz	Pass	Inf	103.35M	72.414M	76.5M	72.114M
5690MHz Straddle 5.725-5.85GHz	Pass	500k	3.14M	34.663M	3.16M	25.047M
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5260MHz	Pass	Inf	21.81M	18.924M	21.45M	18.865M
5300MHz	Pass	Inf	21.39M	18.924M	21.51M	18.895M
5320MHz	Pass	Inf	21.15M	18.895M	21.54M	18.895M
5500MHz	Pass	Inf	21.395M	18.916M	21.34M	18.891M
5580MHz	Pass	Inf	21.23M	18.916M	21.45M	18.916M



EBW_Non-Beamforming_Radio2

Appendix A.1

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
5700MHz	Pass	Inf	21.93M	18.895M	21.42M	18.924M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	15.585M	14.393M	15.735M	14.423M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	4.32M	4.578M	2.86M	4.578M
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5270MHz	Pass	Inf	41.4M	37.731M	41.28M	37.731M
5310MHz	Pass	Inf	40.86M	37.672M	40.98M	37.731M
5510MHz	Pass	Inf	41.25M	37.731M	41.25M	37.681M
5550MHz	Pass	Inf	40.7M	37.781M	41.03M	37.731M
5670MHz	Pass	Inf	41.4M	37.731M	40.68M	37.731M
5710MHz Straddle 5.47-5.725GHz	Pass	Inf	40.075M	33.863M	36.12M	33.758M
5710MHz Straddle 5.725-5.85GHz	Pass	500k	4.02M	22.489M	4.12M	13.553M
802.11ax HEW80_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5290MHz	Pass	Inf	82.68M	76.99M	83.04M	77.107M
5530MHz	Pass	Inf	82.08M	76.99M	82.2M	76.99M
5610MHz	Pass	Inf	83.28M	77.342M	81.96M	77.225M
5690MHz Straddle 5.47-5.725GHz	Pass	Inf	91.275M	73.463M	76.425M	73.163M
5690MHz Straddle 5.725-5.85GHz	Pass	500k	3.98M	36.082M	3.84M	29.625M

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

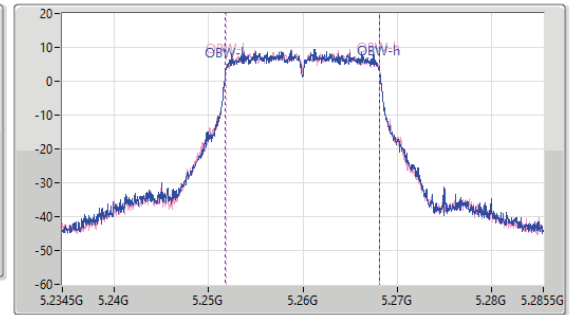
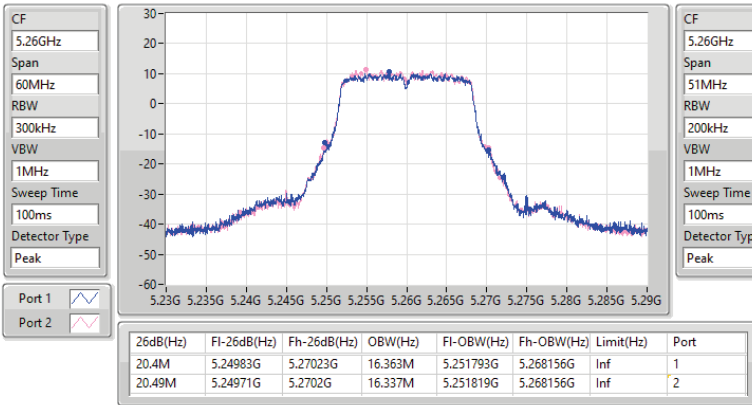
Port X-OBW = Port X 99% occupied bandwidth

5.25-5.35GHz_802.11a_Nss1,(6Mbps)_2TX

EBW

5260MHz

09/10/2022

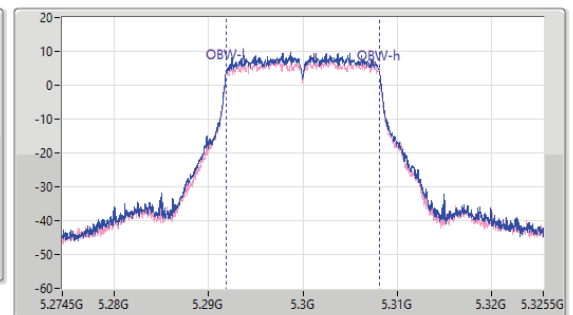
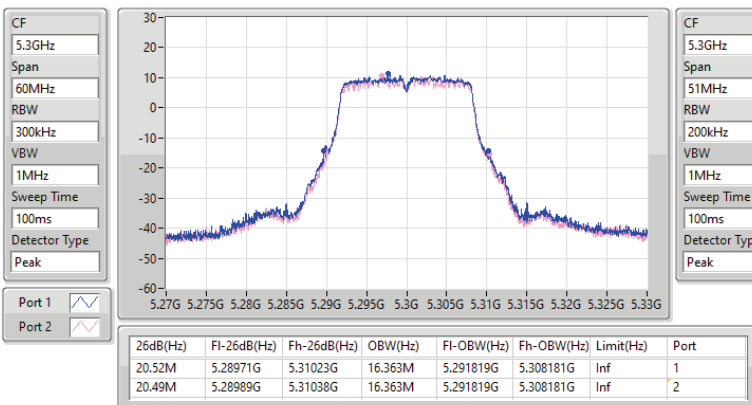


5.25-5.35GHz_802.11a_Nss1,(6Mbps)_2TX

EBW

5300MHz

09/10/2022

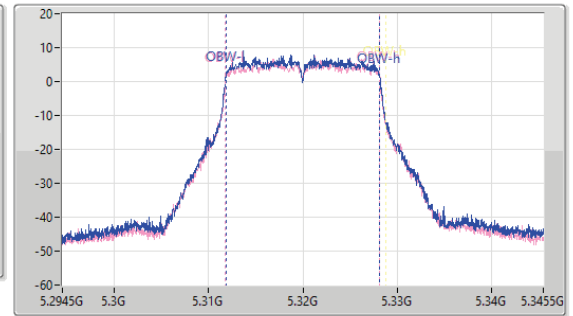
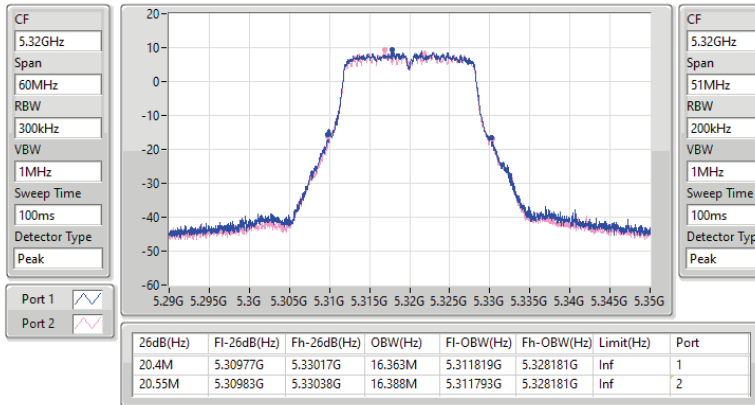


5.25-5.35GHz_802.11a_Nss1,(6Mbps)_2TX

EBW

5320MHz

09/10/2022

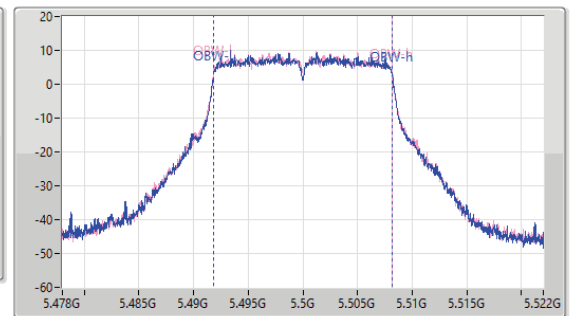
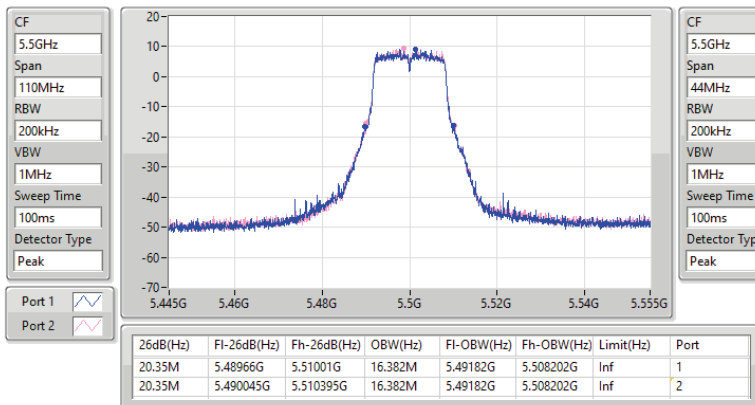


5.47-5.725GHz_802.11a_Nss1,(6Mbps)_2TX

EBW

5500MHz

24/03/2023

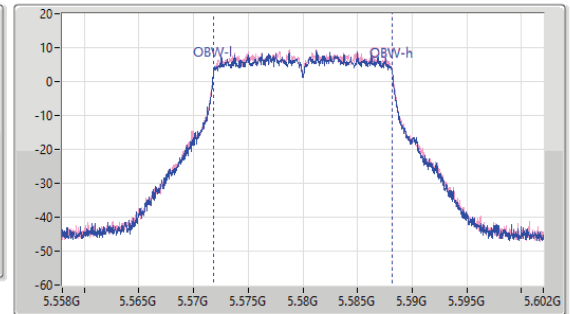
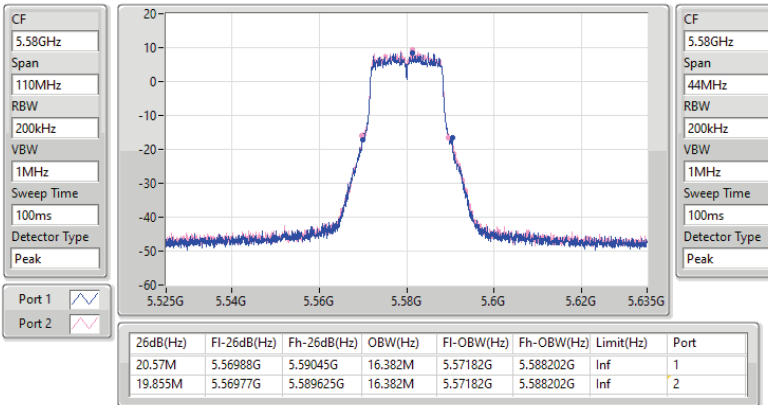


5.47-5.725GHz_802.11a_Nss1,(6Mbps)_2TX

EBW

5580MHz

21/03/2023

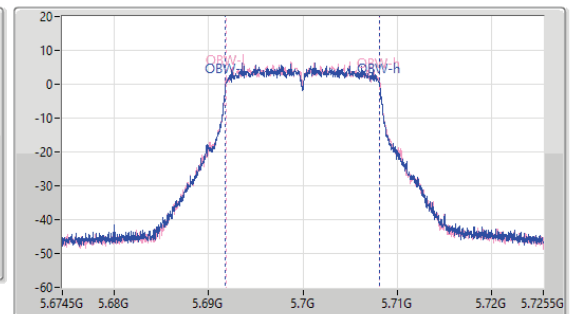
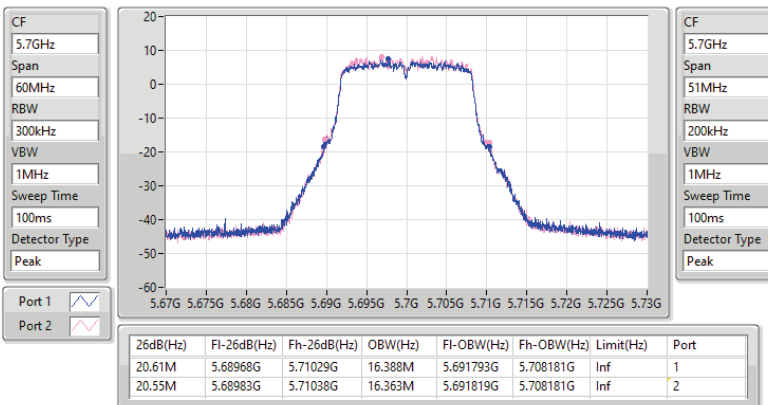


5.47-5.725GHz_802.11a_Nss1,(6Mbps)_2TX

EBW

5700MHz

09/10/2022

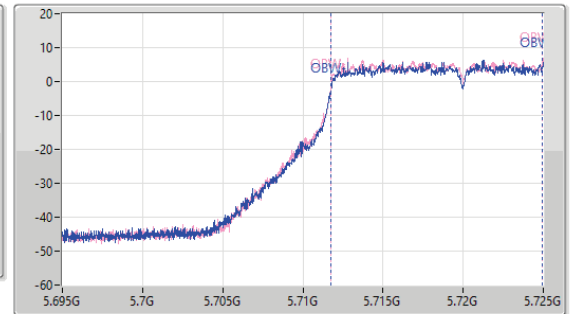
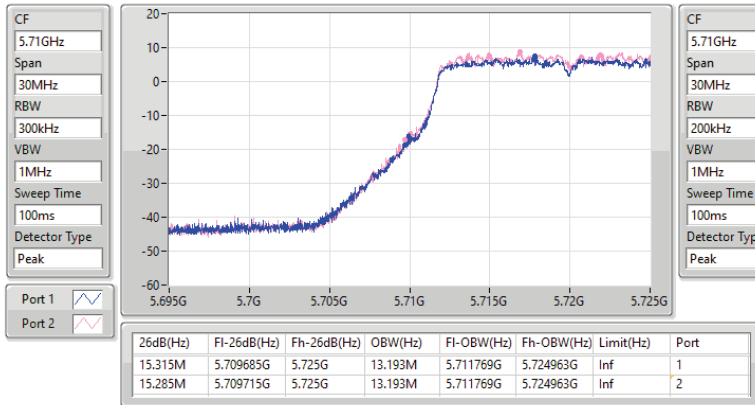


5.47-5.725GHz_802.11a_Nss1,(6Mbps)_2TX

EBW

5720MHz Straddle 5.47-5.725GHz

09/10/2022

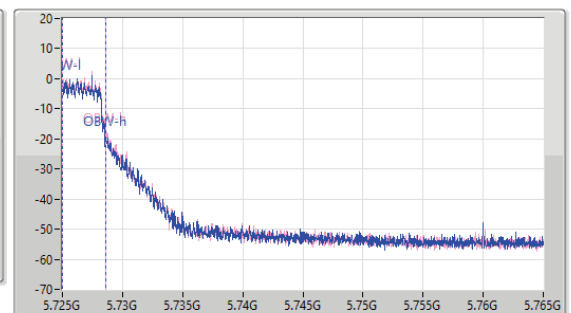
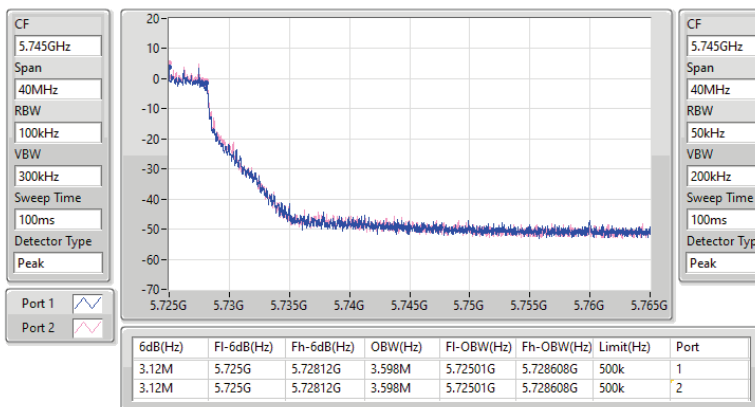


5.725-5.85GHz_802.11a_Nss1,(6Mbps)_2TX

EBW

5720MHz Straddle 5.725-5.85GHz

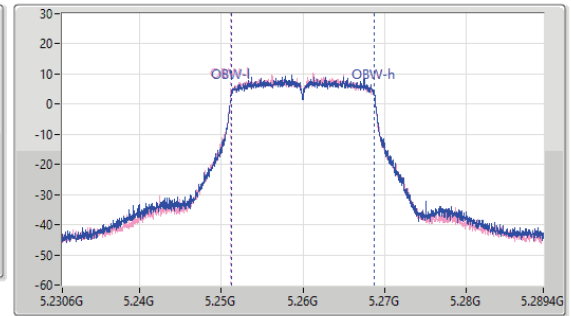
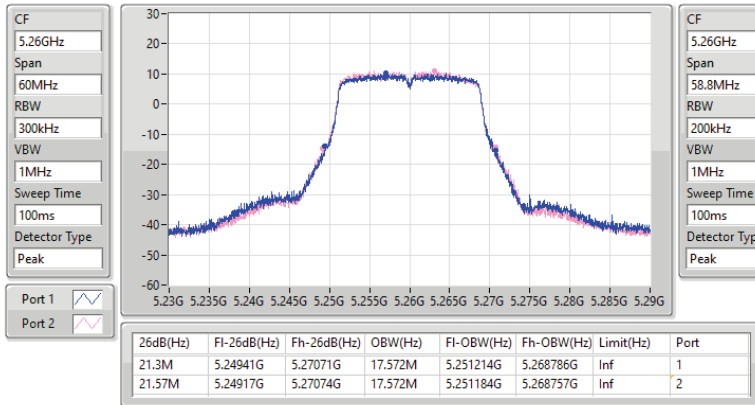
09/10/2022



5.25-5.35GHz_802.11n HT20_Nss1,(MCS0)_2TX 5260MHz

EBW

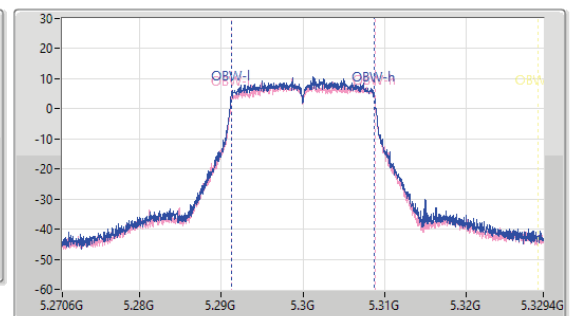
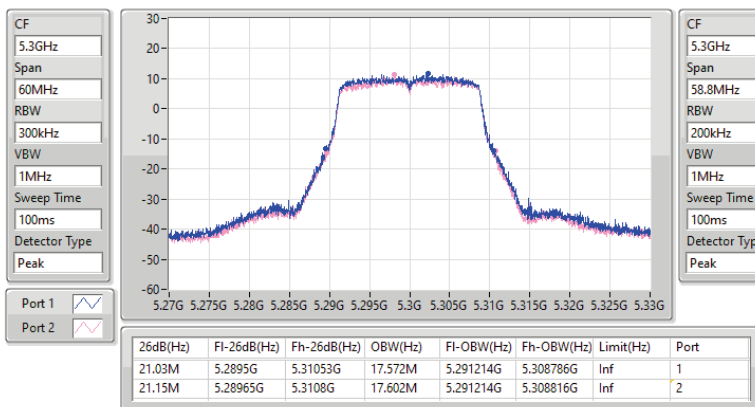
09/10/2022



5.25-5.35GHz_802.11n HT20_Nss1,(MCS0)_2TX 5300MHz

EBW

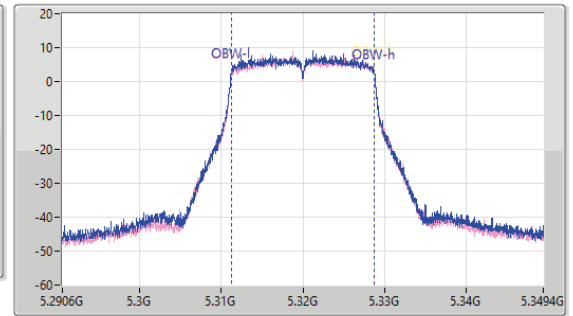
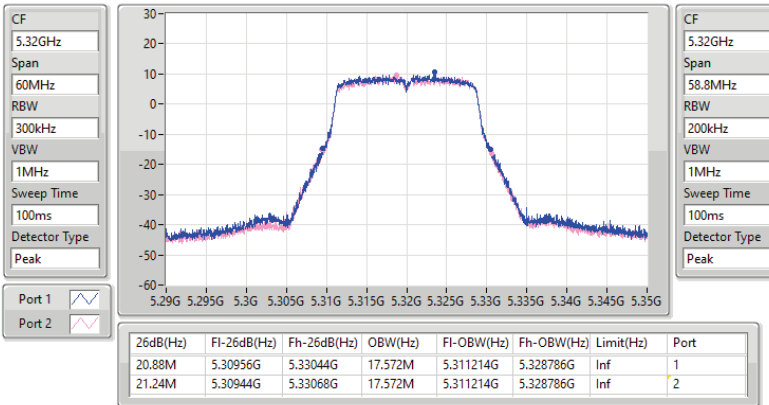
09/10/2022



5.25-5.35GHz_802.11n HT20_Nss1,(MCS0)_2TX 5320MHz

EBW

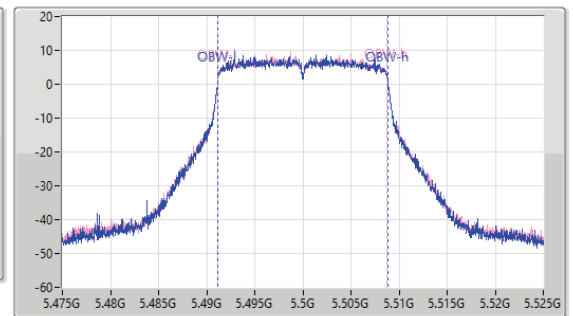
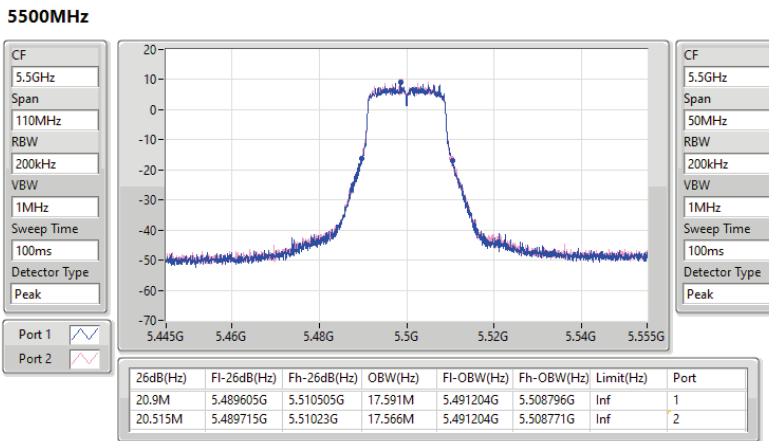
09/10/2022



5.47-5.725GHz_802.11n HT20_Nss1,(MCS0)_2TX

EBW

24/03/2023

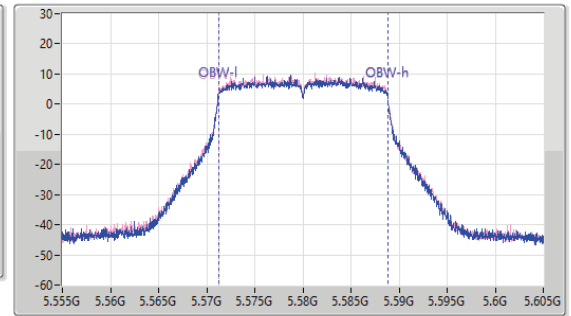
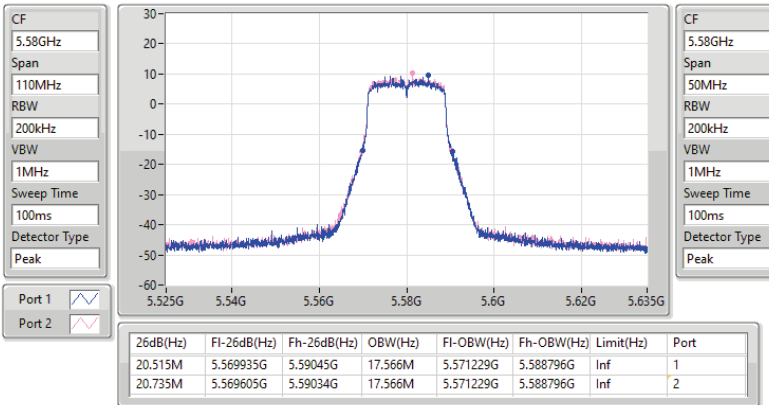


5.47-5.725GHz_802.11n HT20_Nss1,(MCS0)_2TX

EBW

5580MHz

21/03/2023

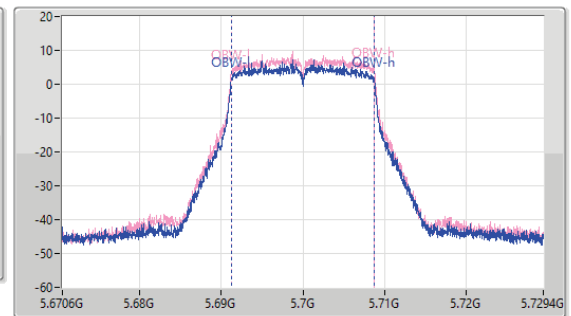
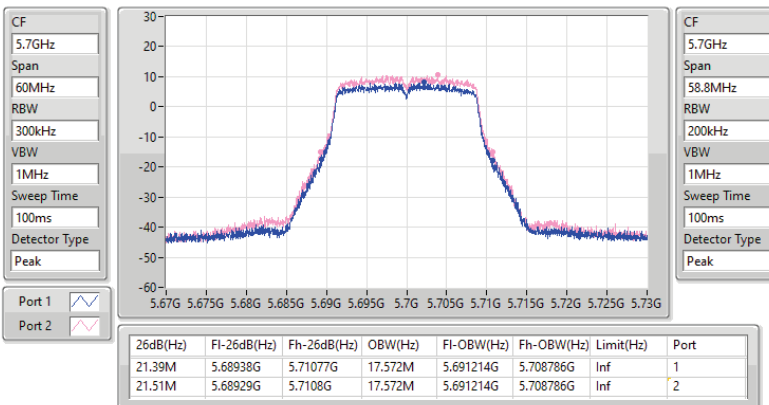


5.47-5.725GHz_802.11n HT20_Nss1,(MCS0)_2TX

EBW

5700MHz

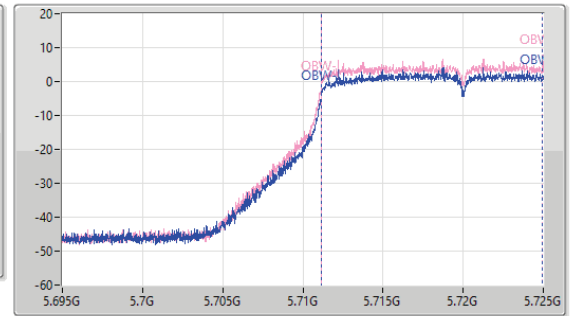
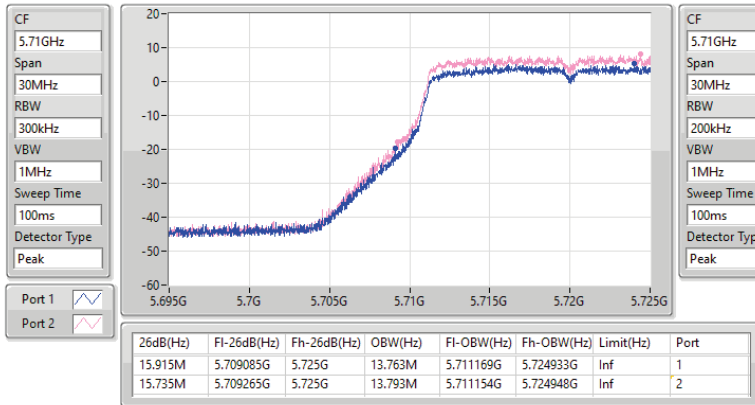
09/10/2022



5.47-5.725GHz_802.11n HT20_Nss1,(MCS0)_2TX 5720MHz Straddle 5.47-5.725GHz

EBW

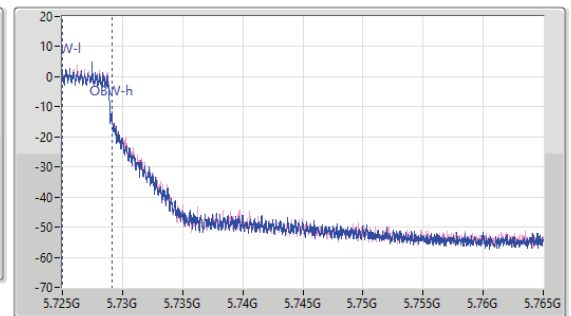
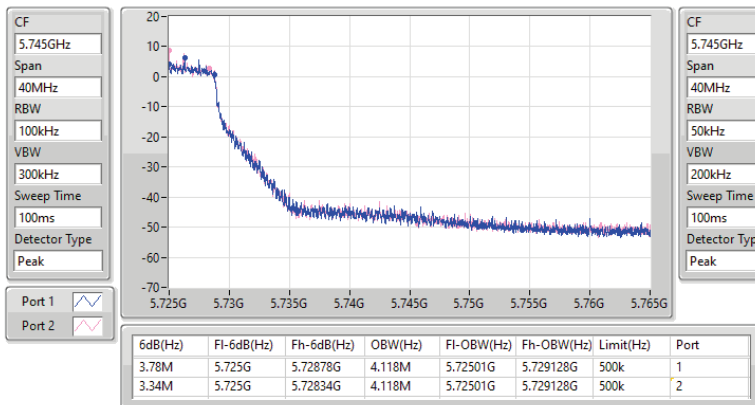
09/10/2022



5.725-5.85GHz_802.11n HT20_Nss1,(MCS0)_2TX 5720MHz Straddle 5.725-5.85GHz

EBW

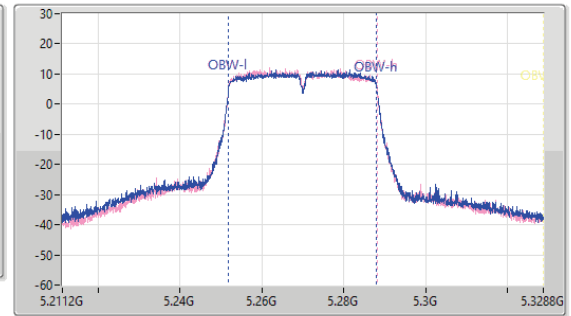
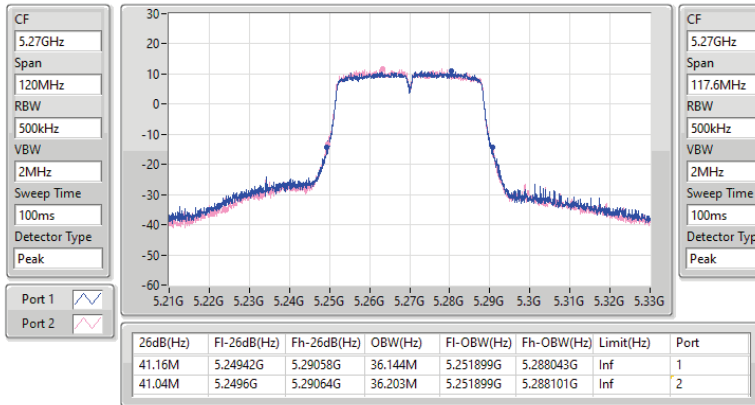
19/10/2022



5.25-5.35GHz_802.11n HT40_Nss1,(MCS0)_2TX
5270MHz

EBW

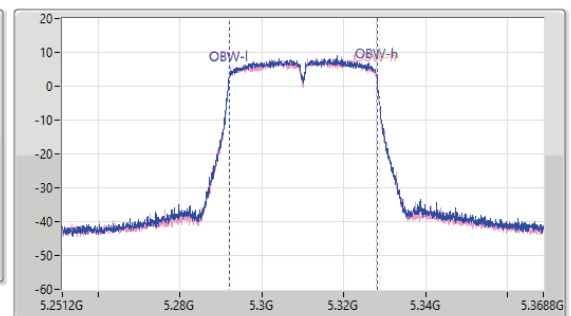
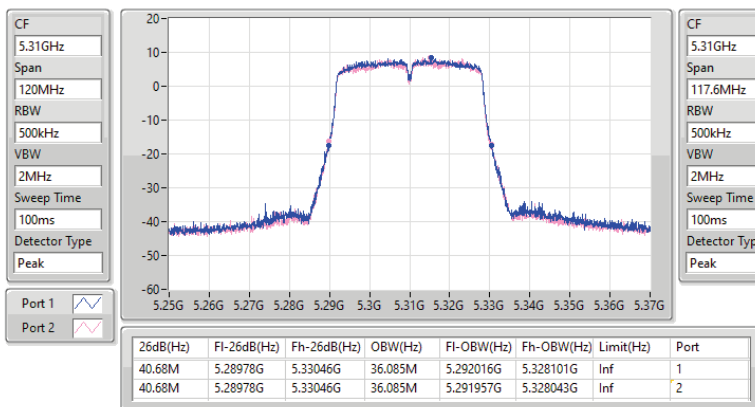
09/10/2022



5.25-5.35GHz_802.11n HT40_Nss1,(MCS0)_2TX
5310MHz

EBW

09/10/2022

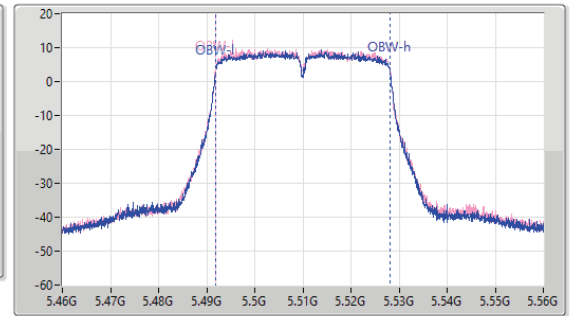
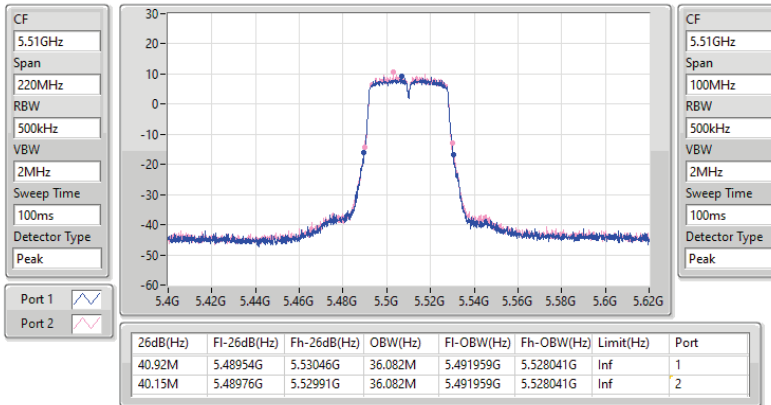


5.47-5.725GHz_802.11n HT40_Nss1,(MCS0)_2TX

EBW

5510MHz

24/03/2023

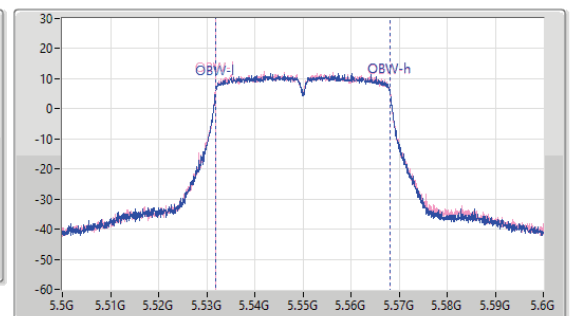
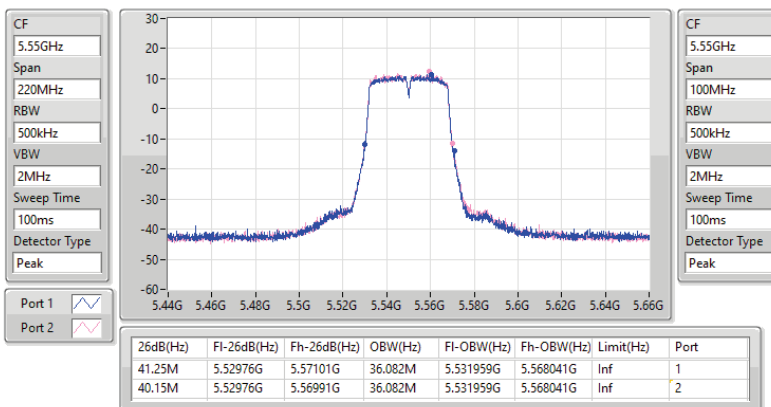


5.47-5.725GHz_802.11n HT40_Nss1,(MCS0)_2TX

EBW

5550MHz

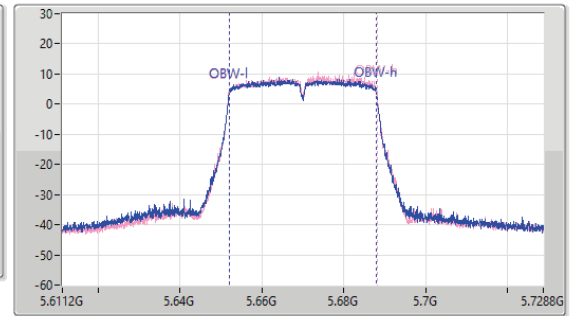
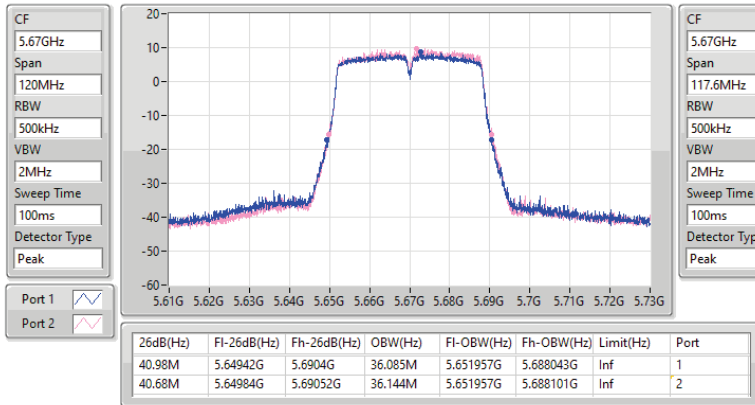
27/03/2023



5.47-5.725GHz_802.11n HT40_Nss1,(MCS0)_2TX 5670MHz

EBW

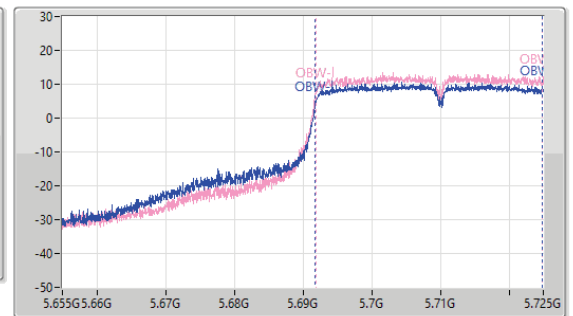
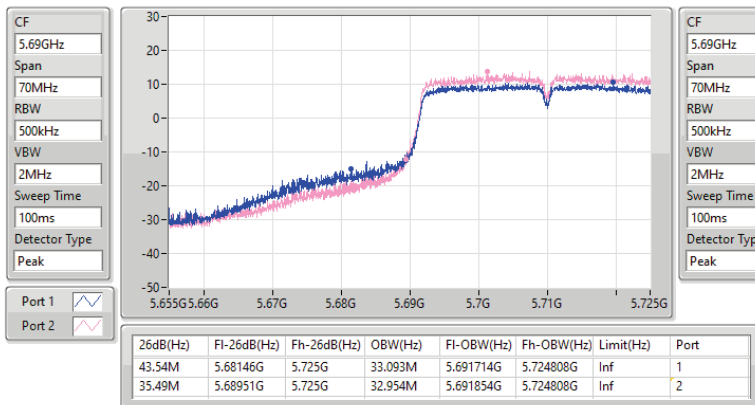
09/10/2022



5.47-5.725GHz_802.11n HT40_Nss1,(MCS0)_2TX 5710MHz Straddle 5.47-5.725GHz

EBW

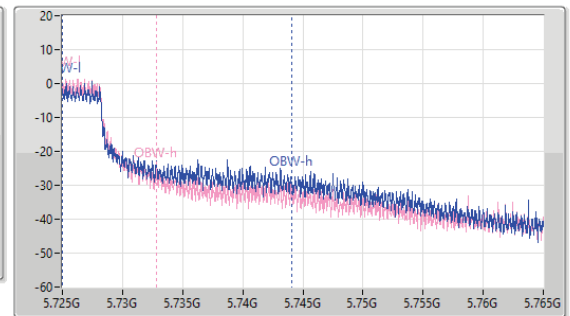
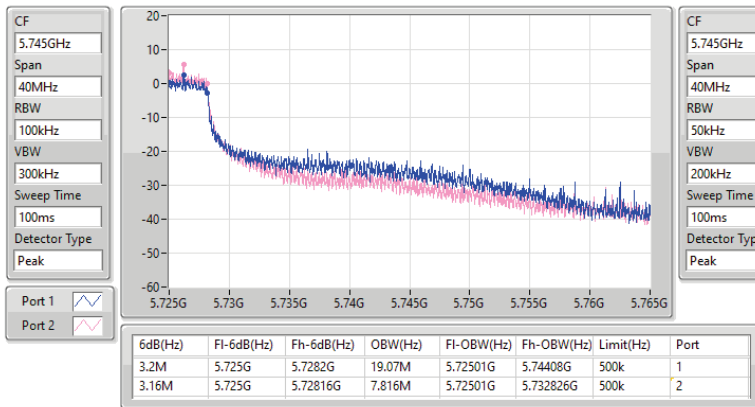
09/10/2022



5.725-5.85GHz_802.11n HT40_Nss1,(MCS0)_2TX 5710MHz Straddle 5.725-5.85GHz

EBW

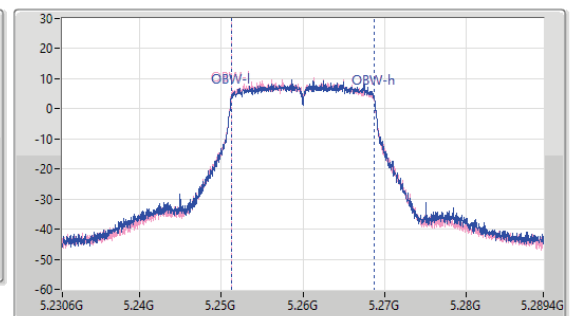
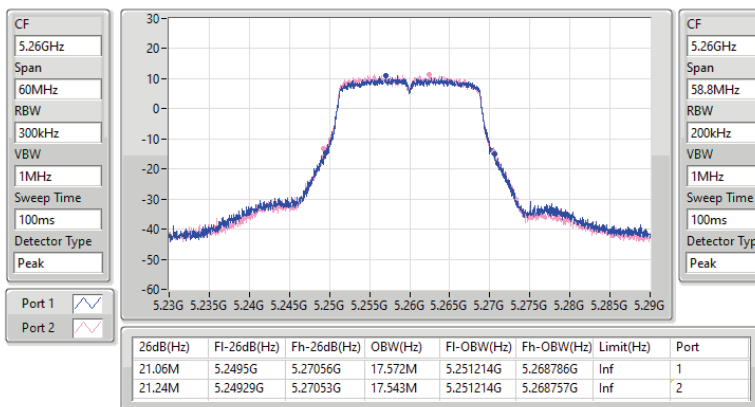
09/10/2022



5.25-5.35GHz_802.11ac VHT20_Nss1,(MCS0)_2TX 5260MHz

EBW

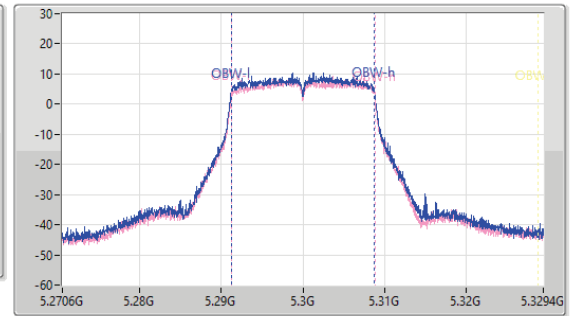
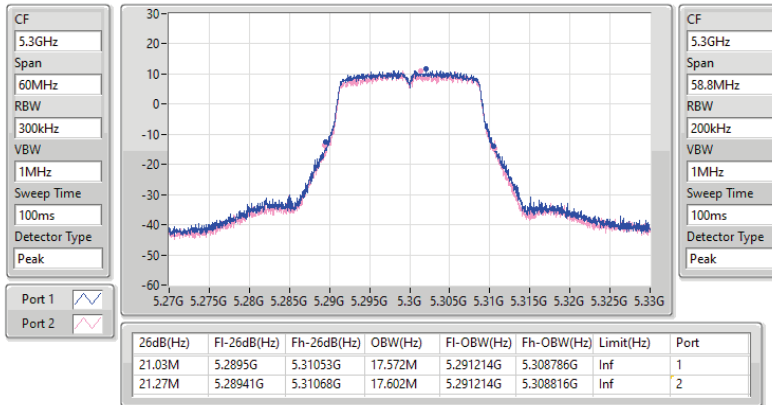
09/10/2022



5.25-5.35GHz_802.11ac VHT20_Nss1,(MCS0)_2TX 5300MHz

EBW

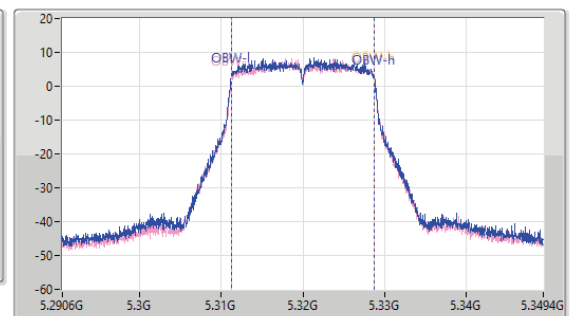
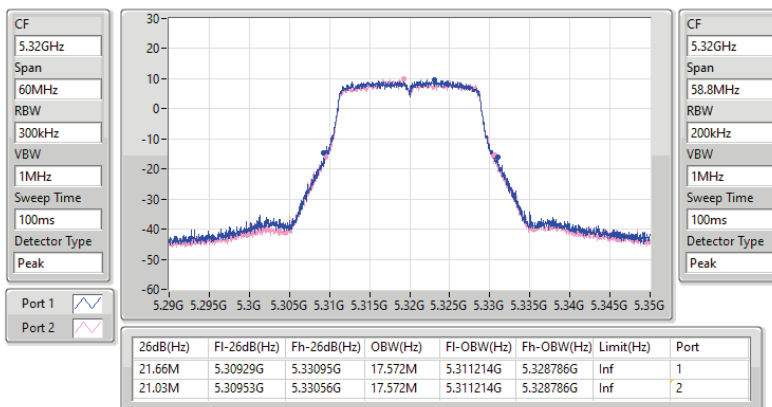
09/10/2022



5.25-5.35GHz_802.11ac VHT20_Nss1,(MCS0)_2TX 5320MHz

EBW

09/10/2022

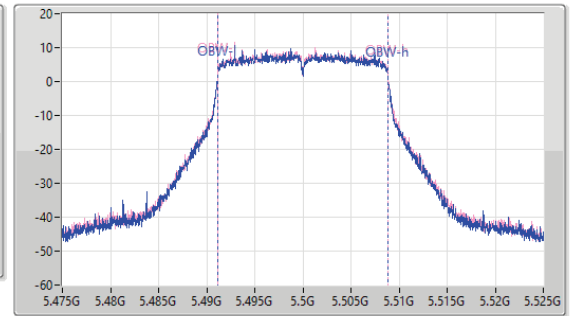
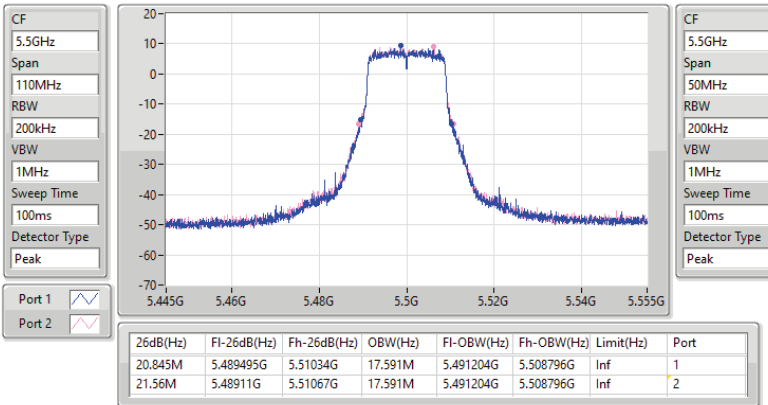


5.47-5.725GHz_802.11ac_VHT20_Nss1,(MCS0)_2TX

EBW

5500MHz

24/03/2023

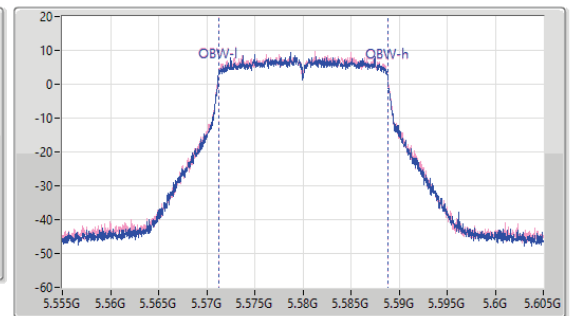
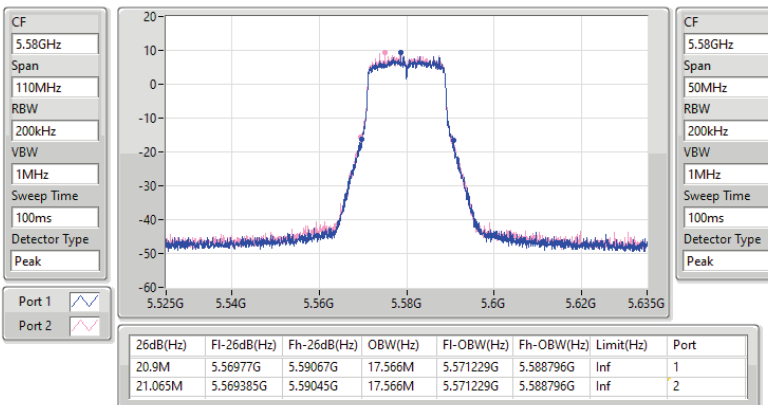


5.47-5.725GHz_802.11ac_VHT20_Nss1,(MCS0)_2TX

EBW

5580MHz

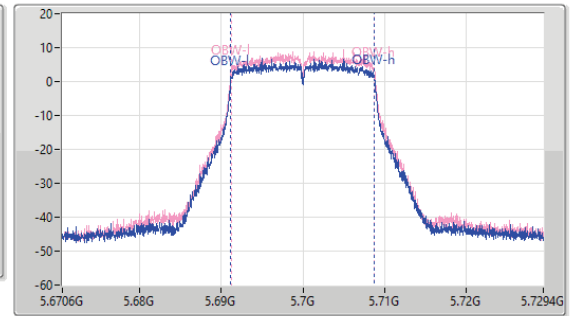
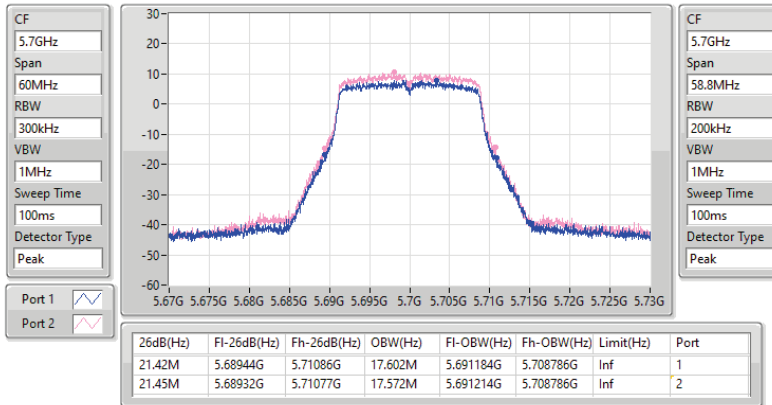
21/03/2023



5.47-5.725GHz_802.11ac VHT20_Nss1,(MCS0)_2TX 5700MHz

EBW

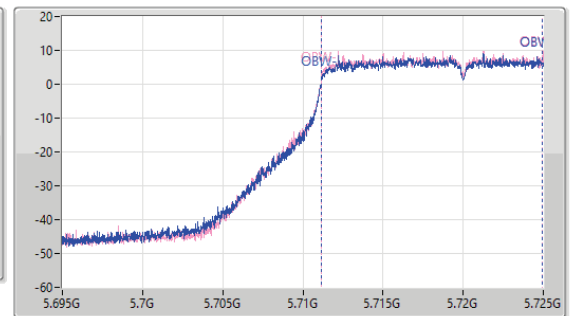
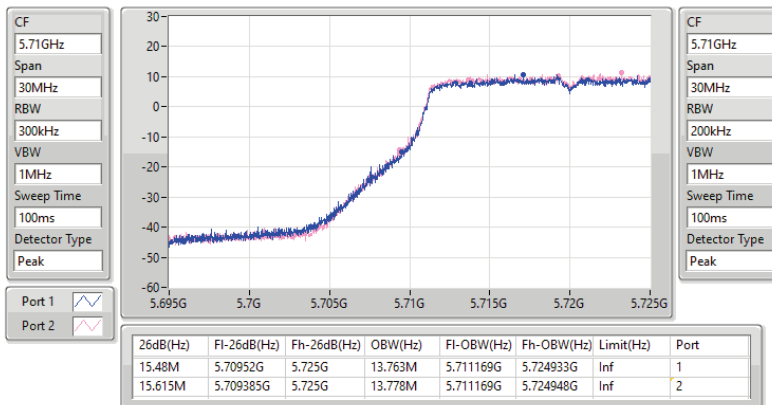
09/10/2022



5.47-5.725GHz_802.11ac VHT20_Nss1,(MCS0)_2TX 5720MHz Straddle 5.47-5.725GHz

EBW

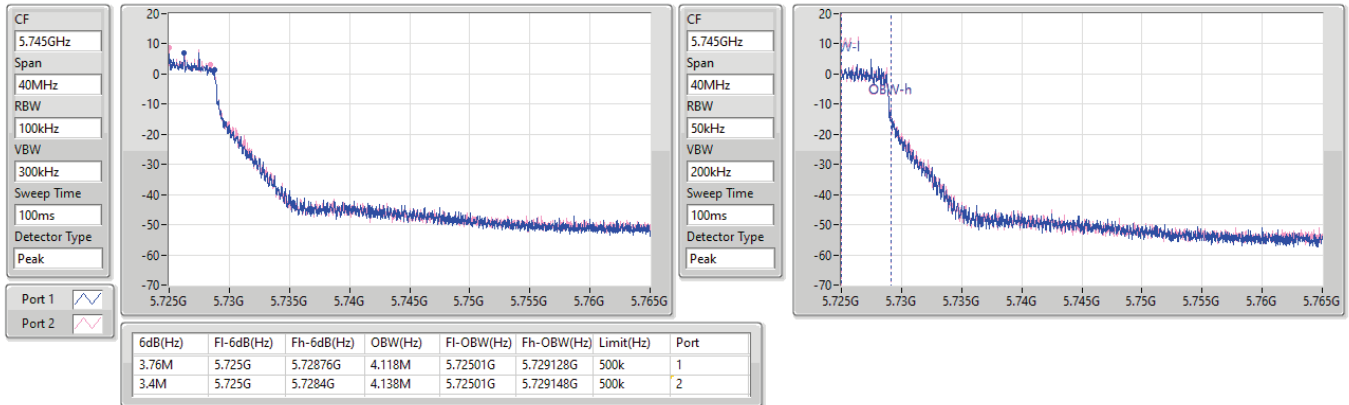
19/10/2022



5.725-5.85GHz_802.11ac VHT20_Nss1,(MCS0)_2TX
5720MHz Straddle 5.725-5.85GHz

EBW

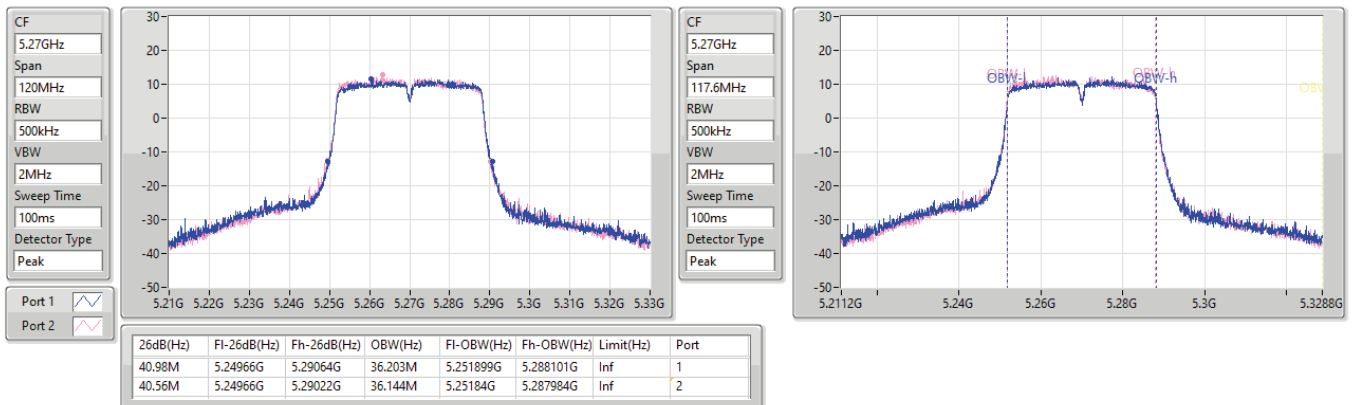
19/10/2022



5.25-5.35GHz_802.11ac VHT40_Nss1,(MCS0)_2TX
5270MHz

EBW

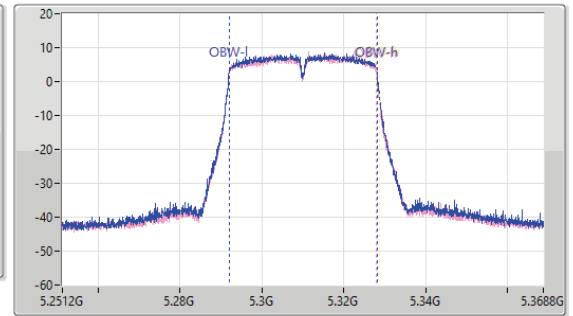
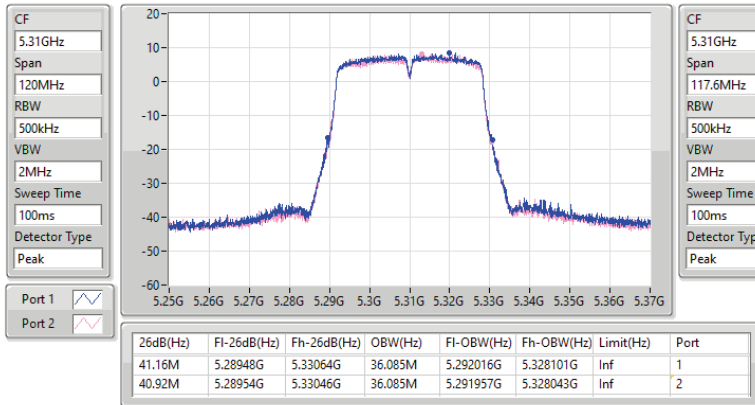
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5.25-5.35GHz_802.11ac VHT40_Nss1,(MCS0)_2TX 5310MHz

EBW

09/10/2022

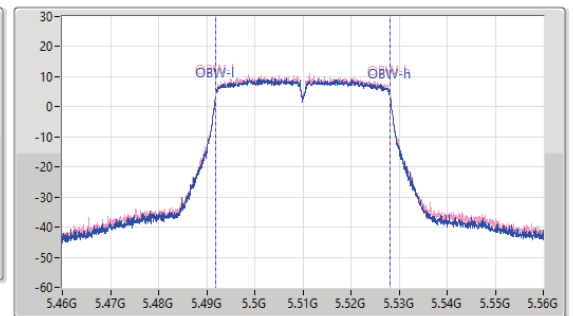
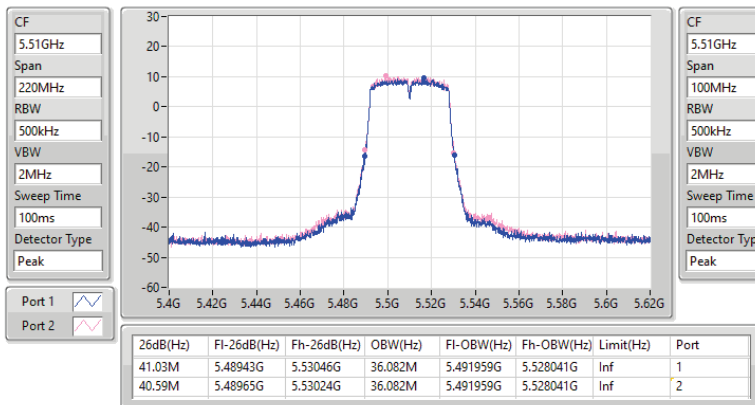


5.47-5.725GHz_802.11ac VHT40_Nss1,(MCS0)_2TX

EBW

24/03/2023

5510MHz

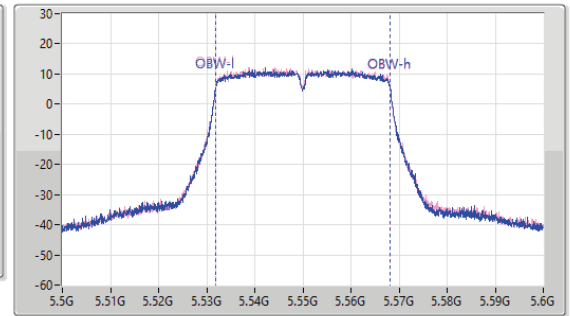
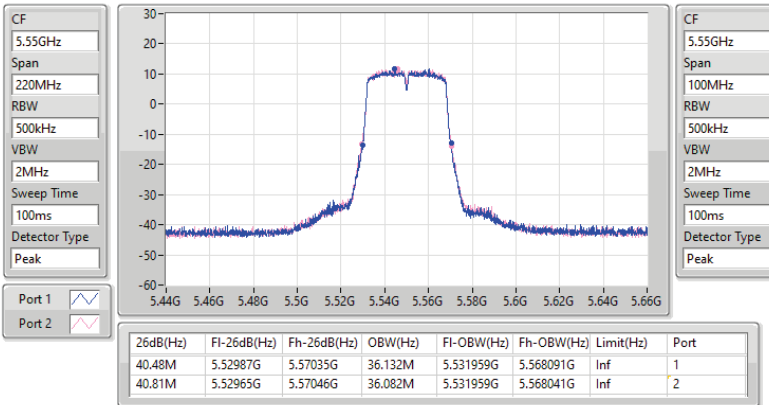


5.47-5.725GHz_802.11ac VHT40_Nss1,(MCS0)_2TX

EBW

5550MHz

27/03/2023

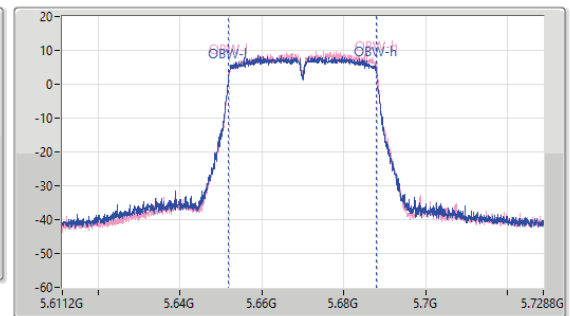
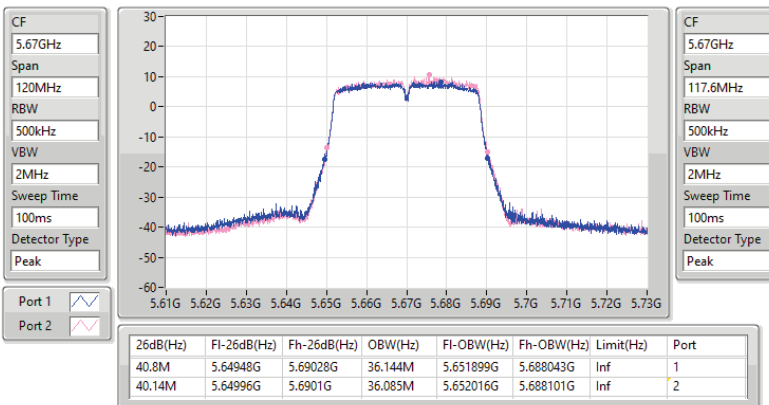


5.47-5.725GHz_802.11ac VHT40_Nss1,(MCS0)_2TX

EBW

5670MHz

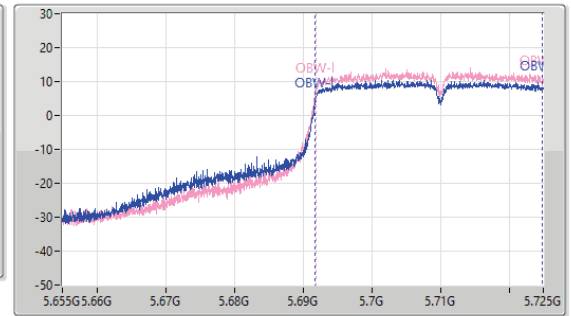
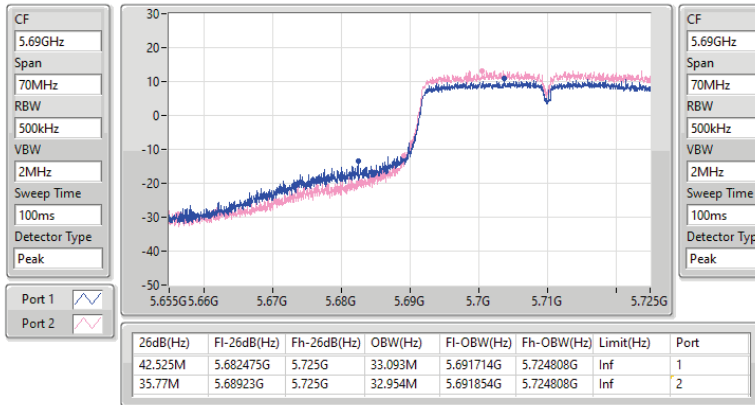
09/10/2022



5.47-5.725GHz_802.11ac VHT40_Nss1,(MCS0)_2TX 5710MHz Straddle 5.47-5.725GHz

EBW

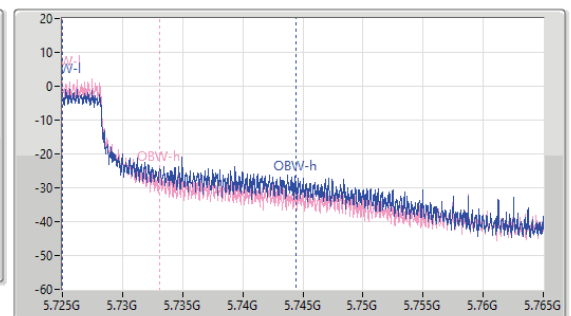
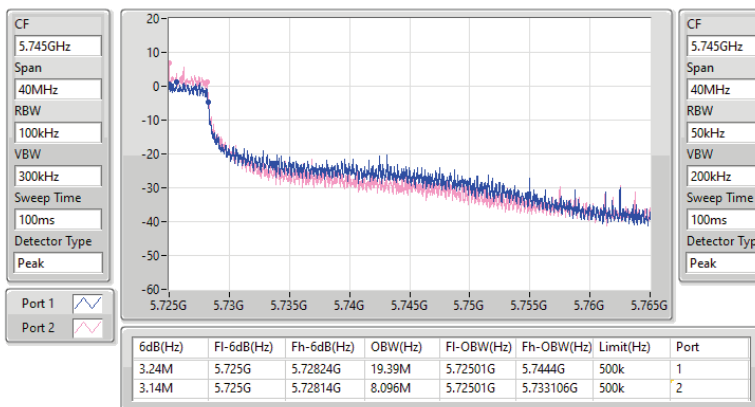
09/10/2022



5.725-5.85GHz_802.11ac VHT40_Nss1,(MCS0)_2TX 5710MHz Straddle 5.725-5.85GHz

EBW

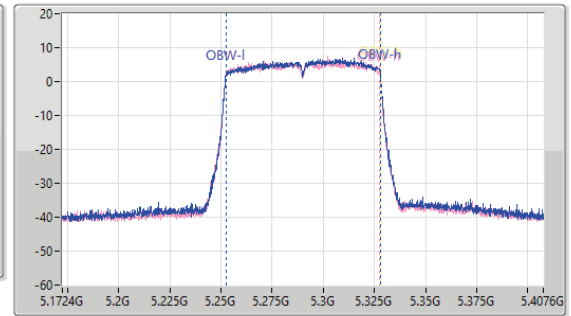
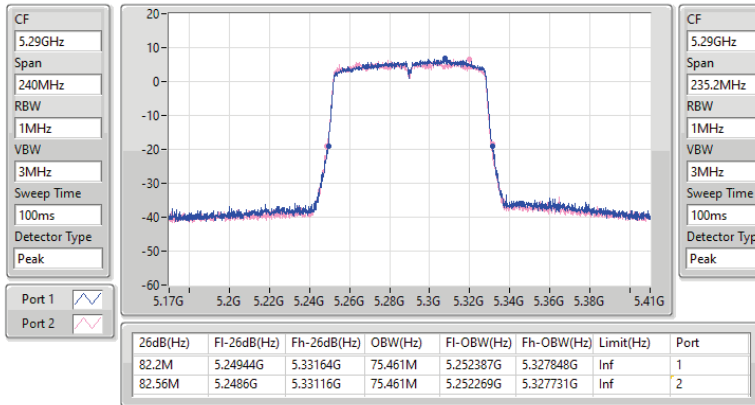
09/10/2022



5.25-5.35GHz_802.11ac VHT80_Nss1,(MCS0)_2TX 5290MHz

EBW

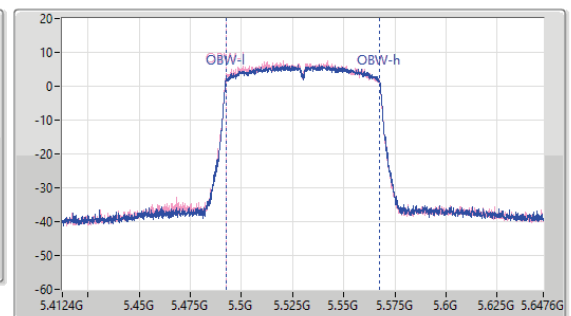
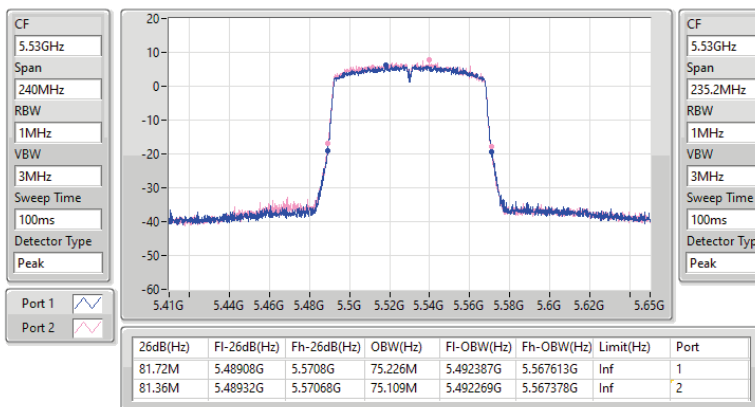
09/10/2022



5.47-5.725GHz_802.11ac VHT80_Nss1,(MCS0)_2TX 5530MHz

EBW

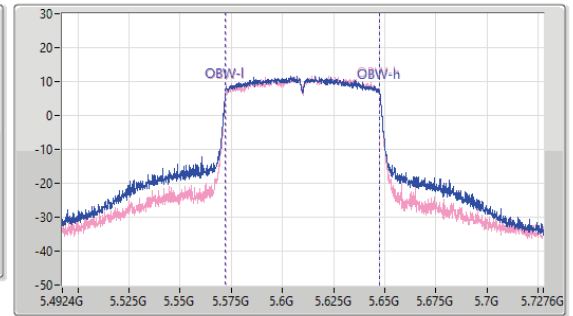
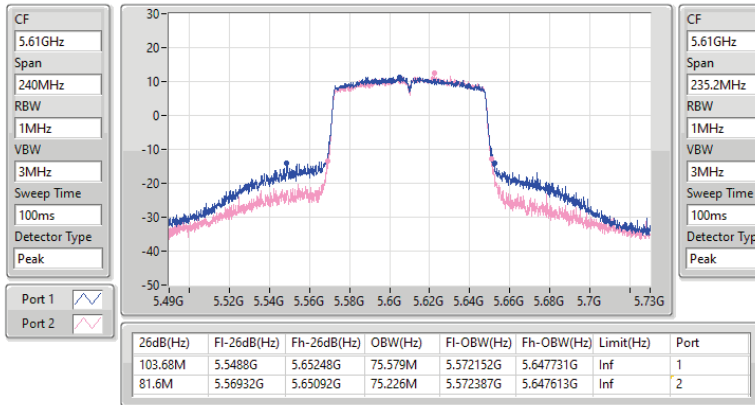
09/10/2022



5.47-5.725GHz_802.11ac VHT80_Nss1,(MCS0)_2TX 5610MHz

EBW

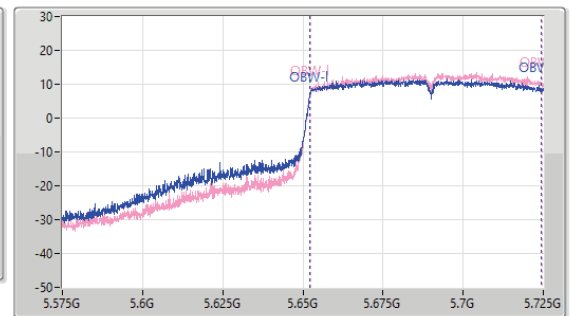
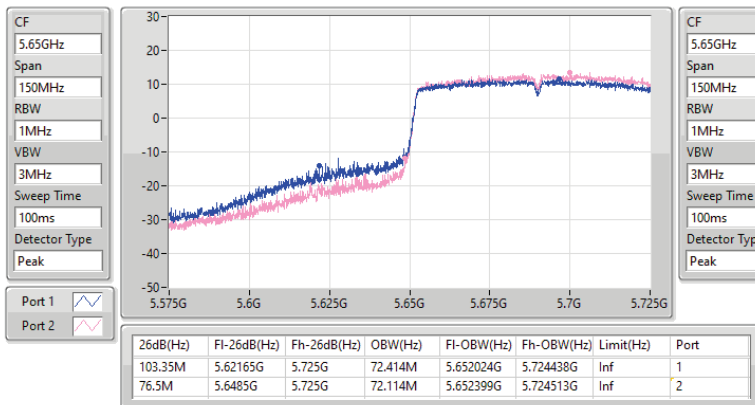
09/10/2022



5.47-5.725GHz_802.11ac VHT80_Nss1,(MCS0)_2TX 5690MHz Straddle 5.47-5.725GHz

EBW

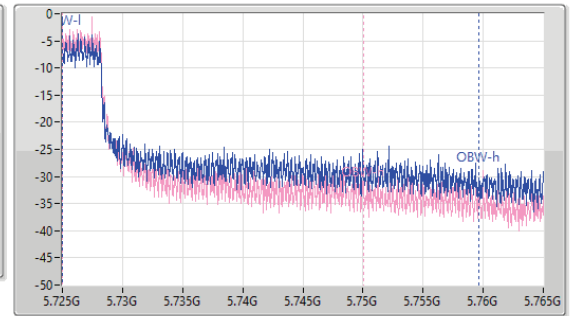
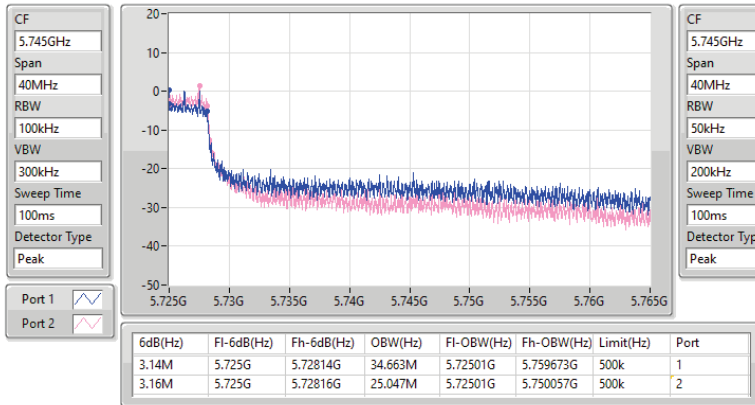
09/10/2022



5.725-5.85GHz_802.11ac VHT80_Nss1,(MCS0)_2TX 5690MHz Straddle 5.725-5.85GHz

EBW

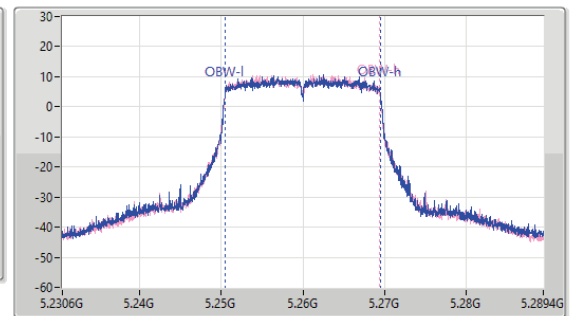
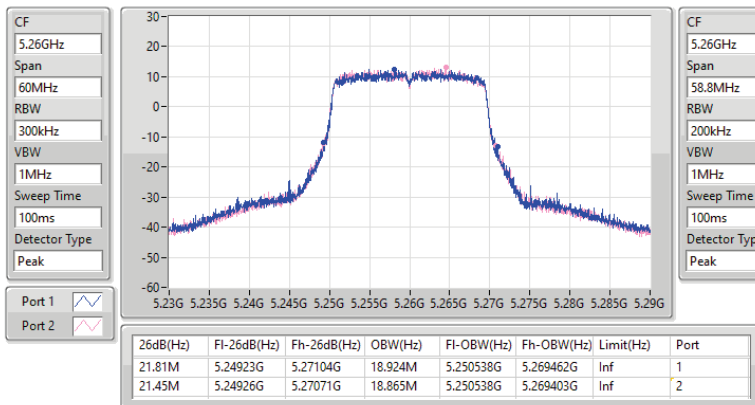
09/10/2022



5.25-5.35GHz_802.11ax HEW20_Nss1,(MCS0)_2TX 5260MHz

EBW

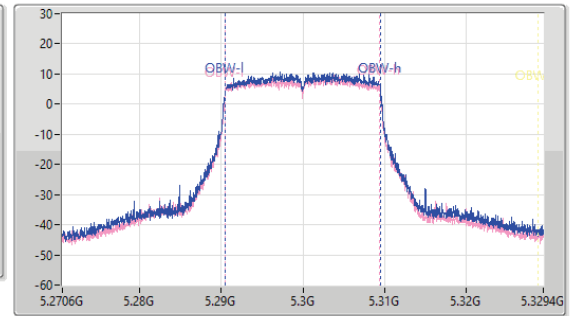
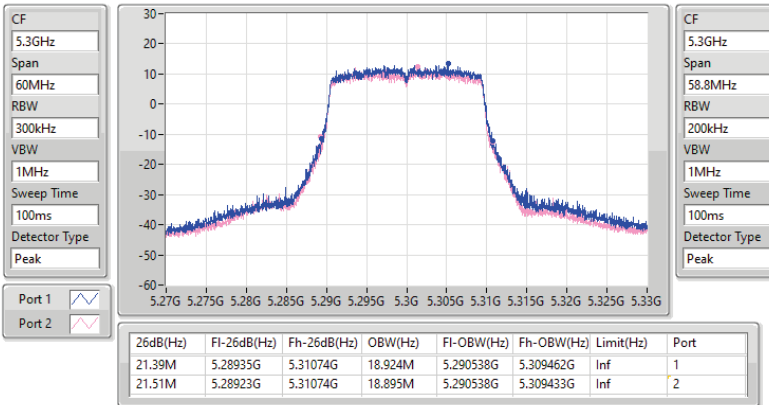
09/10/2022



5.25-5.35GHz_802.11ax HEW20_Nss1,(MCS0)_2TX 5300MHz

EBW

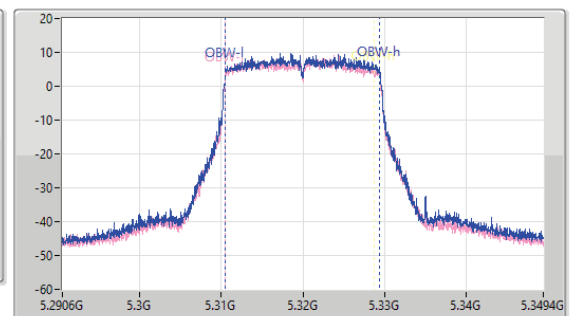
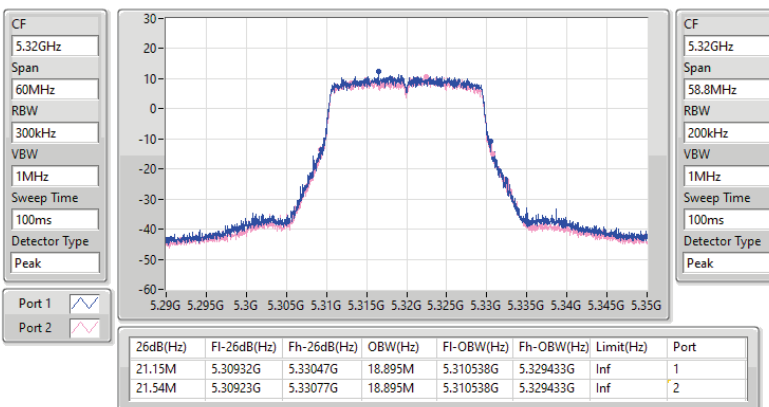
09/10/2022



5.25-5.35GHz_802.11ax HEW20_Nss1,(MCS0)_2TX 5320MHz

EBW

09/10/2022

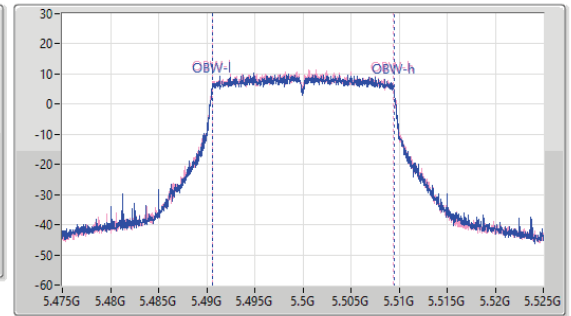
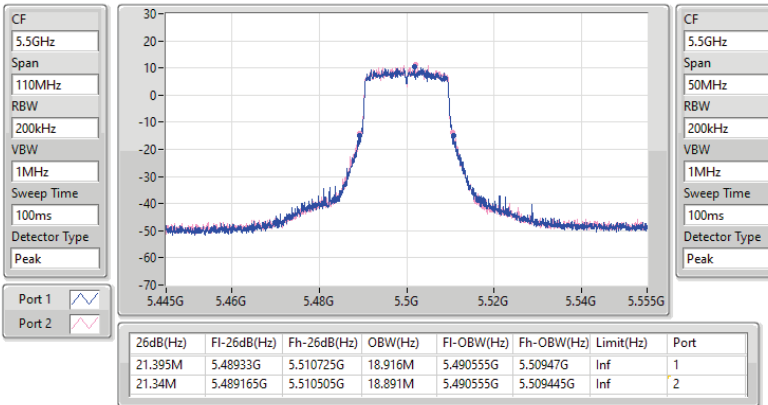


5.47-5.725GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

EBW

5500MHz

24/03/2023

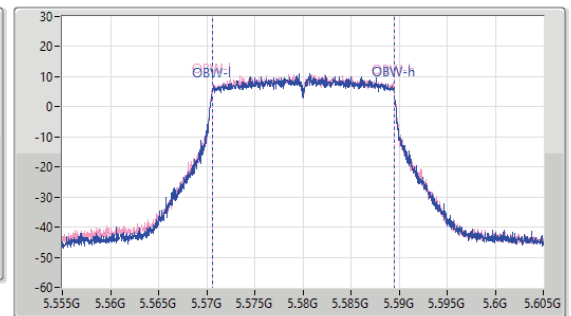
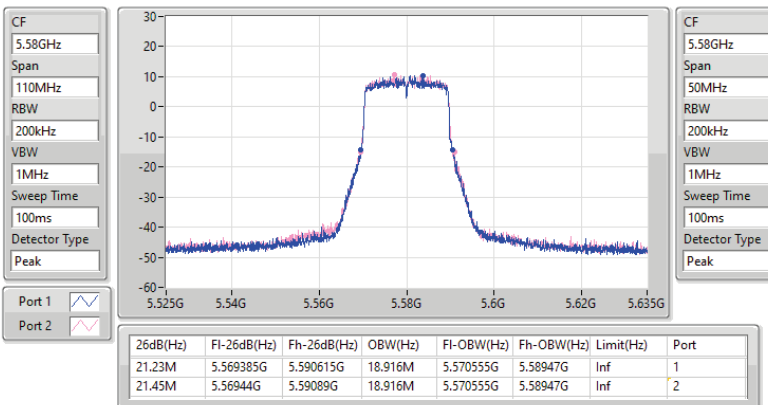


5.47-5.725GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

EBW

5580MHz

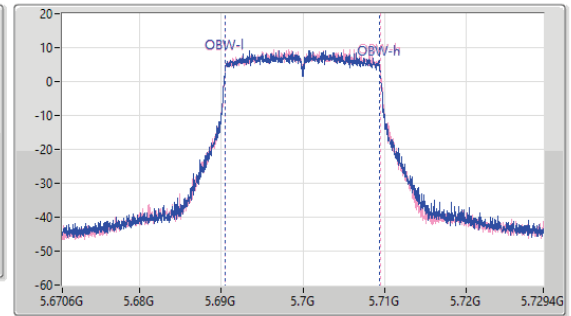
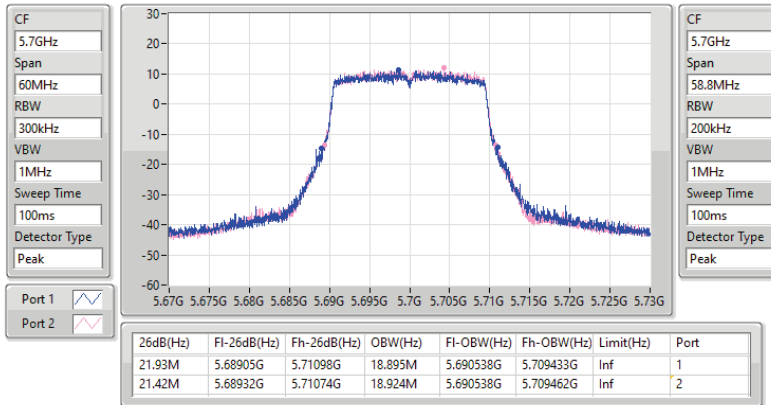
21/03/2023



5.47-5.725GHz_802.11ax HEW20_Nss1,(MCS0)_2TX
5700MHz

EBW

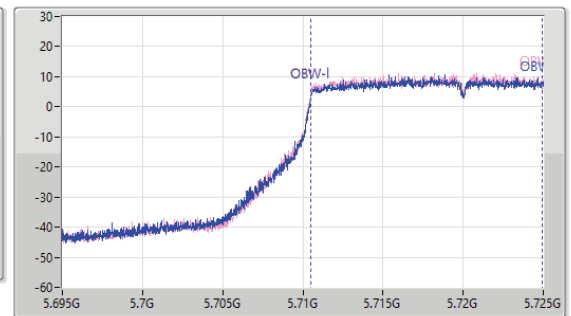
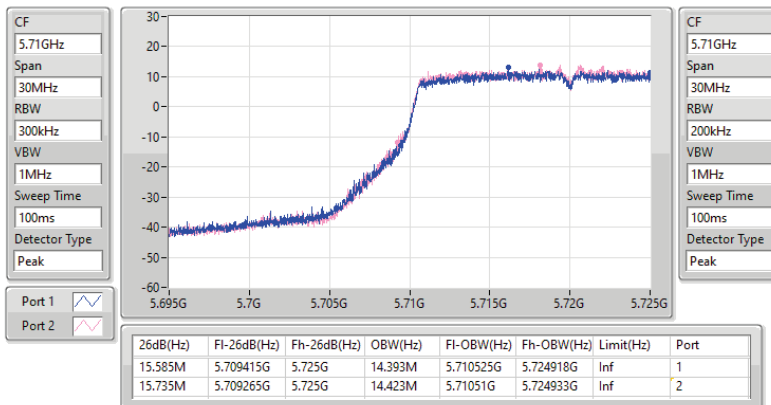
09/10/2022



5.47-5.725GHz_802.11ax HEW20_Nss1,(MCS0)_2TX
5720MHz Straddle 5.47-5.725GHz

EBW

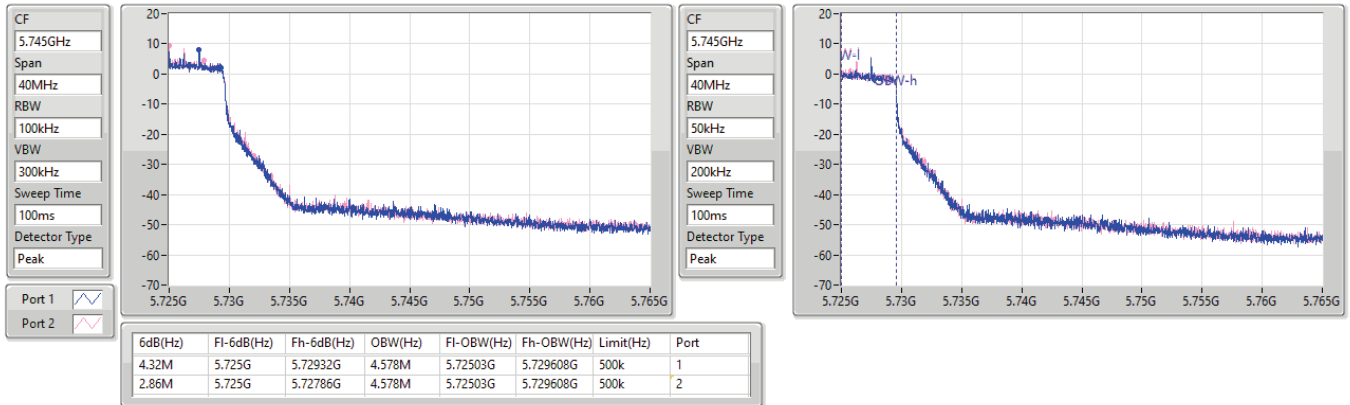
19/10/2022



5.725-5.85GHz_802.11ax HEW20_Nss1,(MCS0)_2TX 5720MHz Straddle 5.725-5.85GHz

EBW

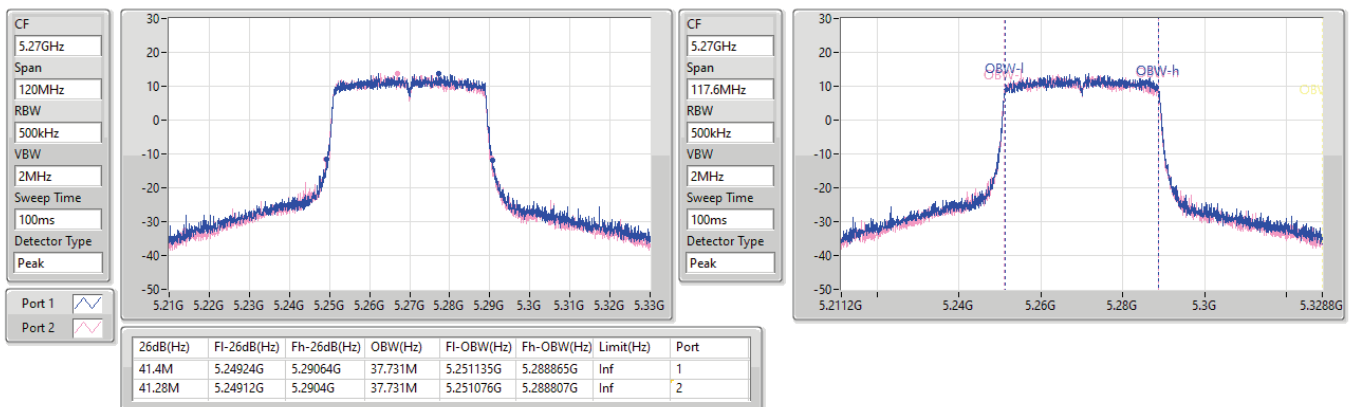
19/10/2022



5.25-5.35GHz_802.11ax HEW40_Nss1,(MCS0)_2TX 5270MHz

EBW

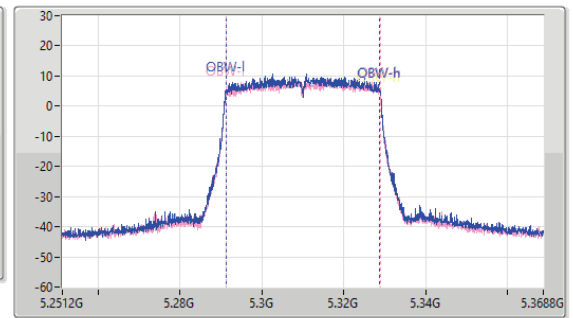
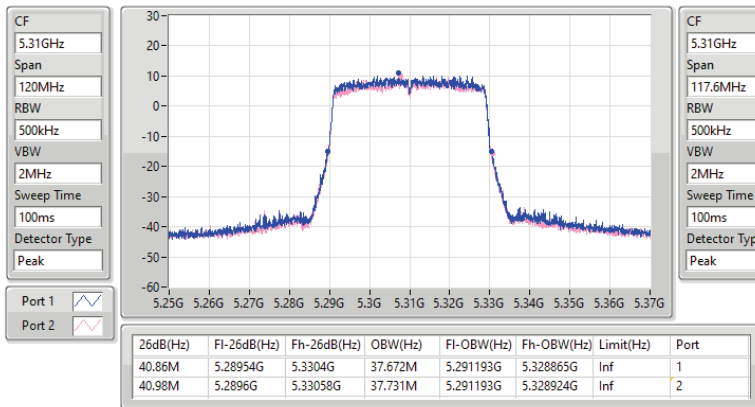
09/10/2022



5.25-5.35GHz_802.11ax HEW40_Nss1,(MCS0)_2TX 5310MHz

EBW

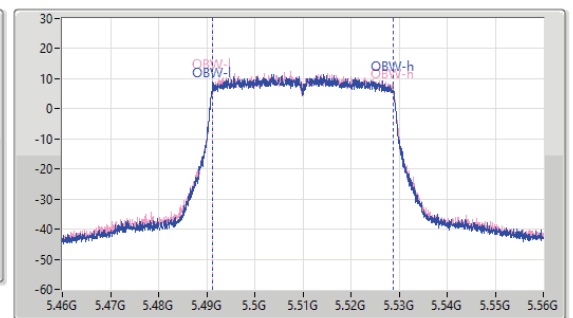
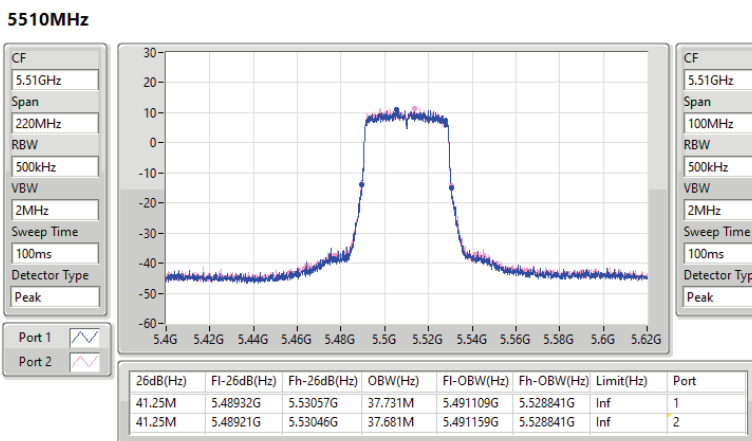
09/10/2022



5.47-5.725GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

EBW

24/03/2023

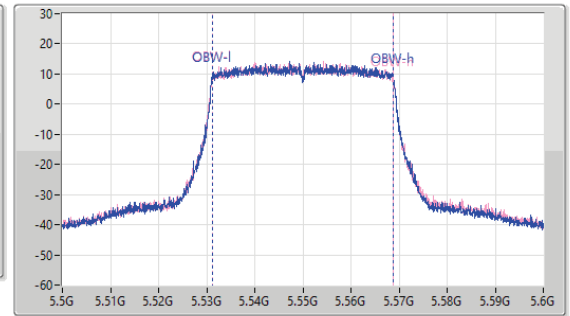
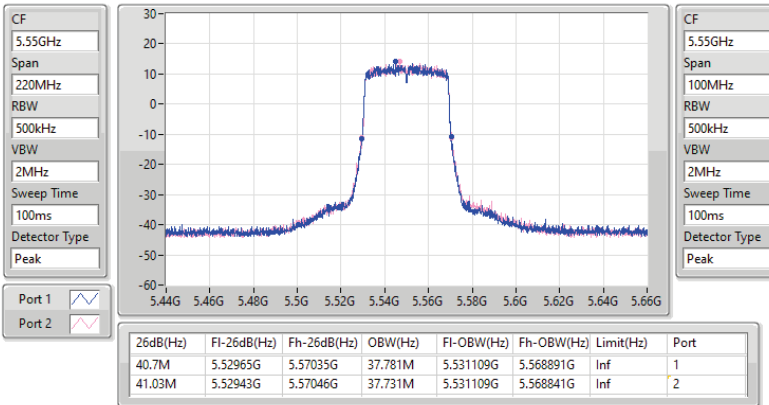


5.47-5.725GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

EBW

5550MHz

27/03/2023

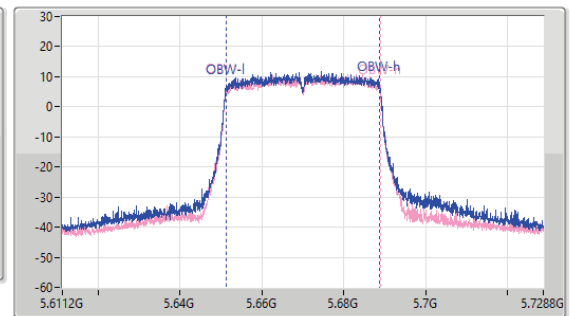
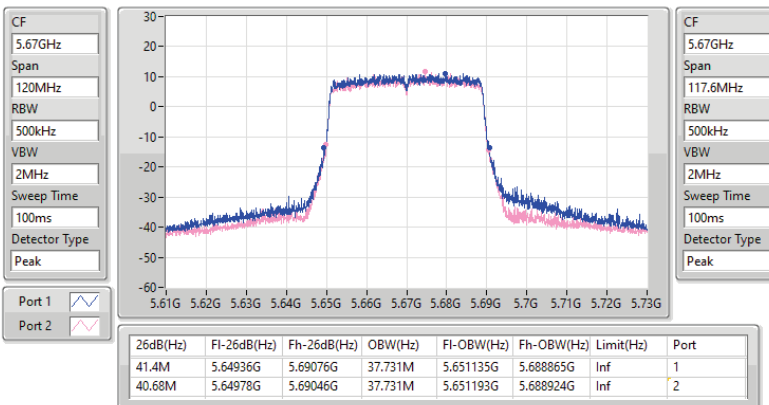


5.47-5.725GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

EBW

5670MHz

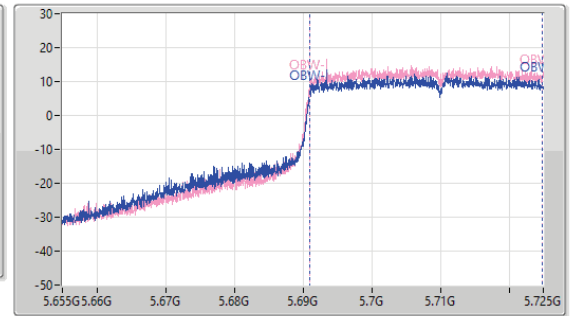
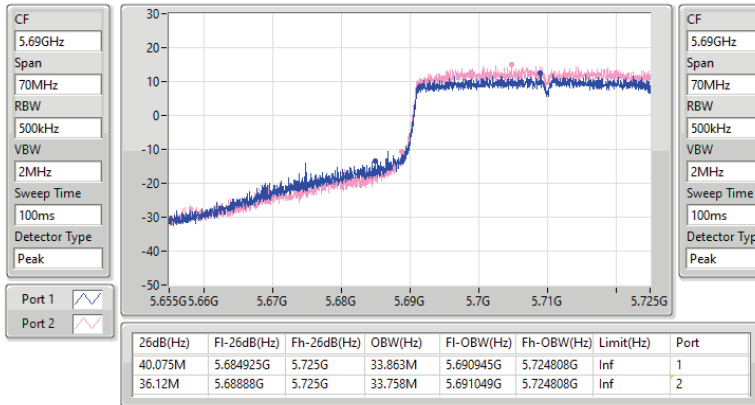
09/10/2022



5.47-5.725GHz_802.11ax HEW40_Nss1,(MCS0)_2TX 5710MHz Straddle 5.47-5.725GHz

EBW

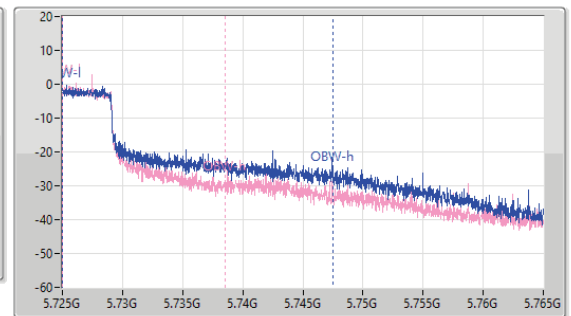
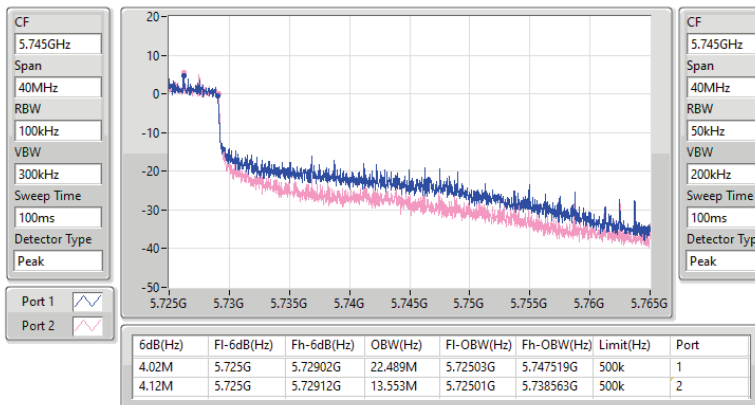
09/10/2022



5.725-5.85GHz_802.11ax HEW40_Nss1,(MCS0)_2TX 5710MHz Straddle 5.725-5.85GHz

EBW

09/10/2022

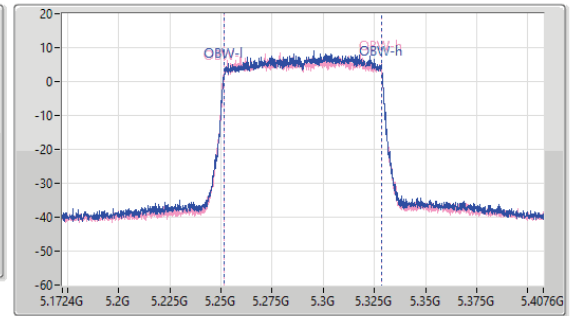
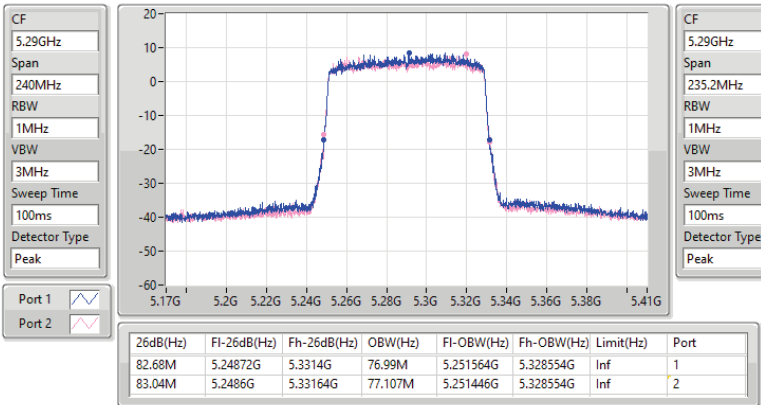


5.25-5.35GHz_802.11ax HEW80_Nss1,(MCS0)_2TX

EBW

5290MHz

09/10/2022

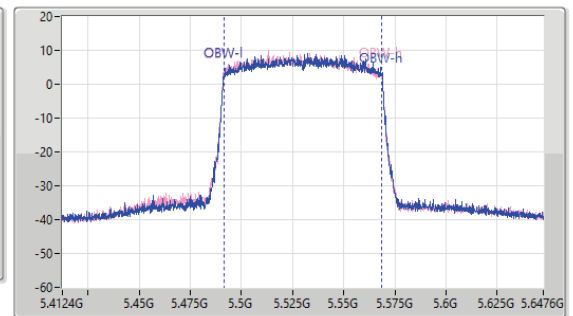
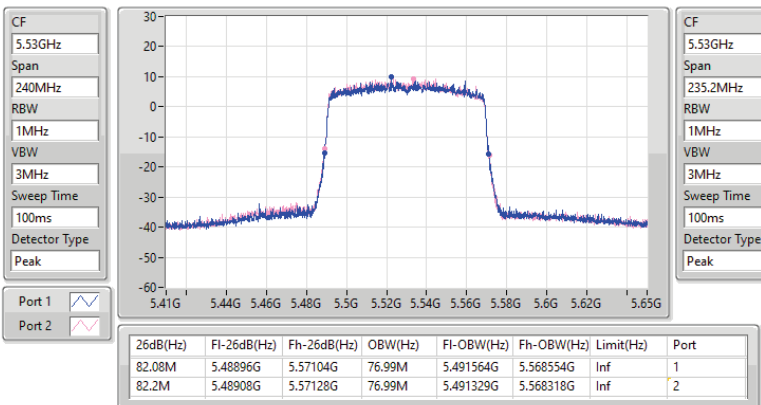


5.47-5.725GHz_802.11ax HEW80_Nss1,(MCS0)_2TX

EBW

5530MHz

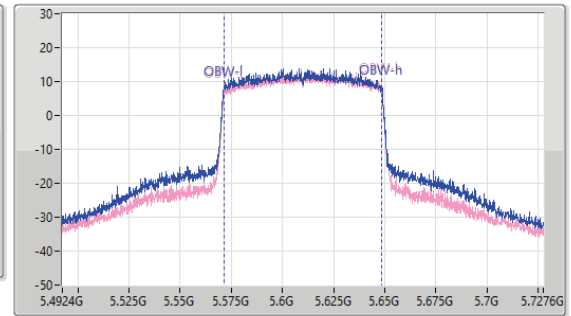
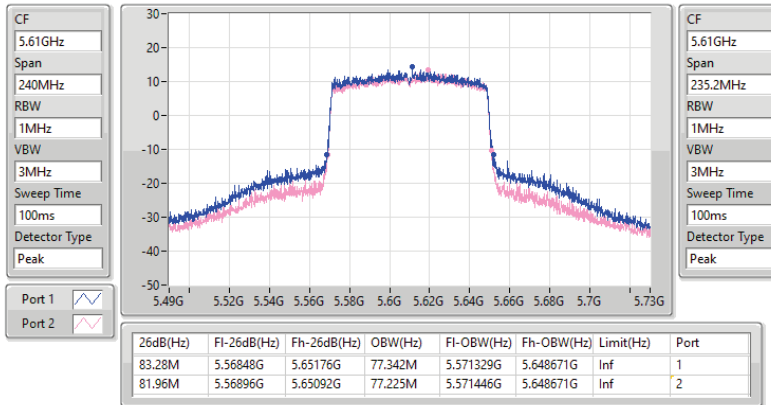
10/10/2022



5.47-5.725GHz_802.11ax HEW80_Nss1,(MCS0)_2TX 5610MHz

EBW

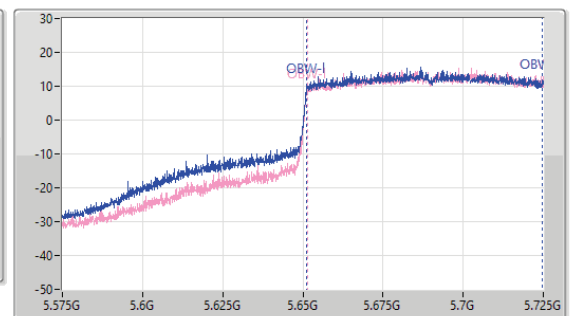
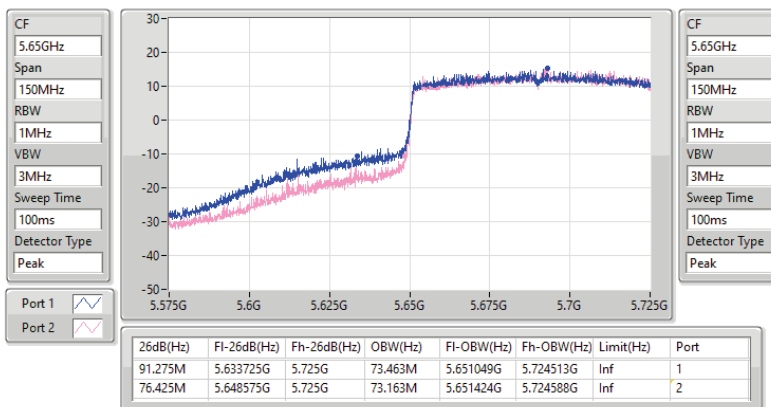
09/10/2022



5.47-5.725GHz_802.11ax HEW80_Nss1,(MCS0)_2TX 5690MHz Straddle 5.47-5.725GHz

EBW

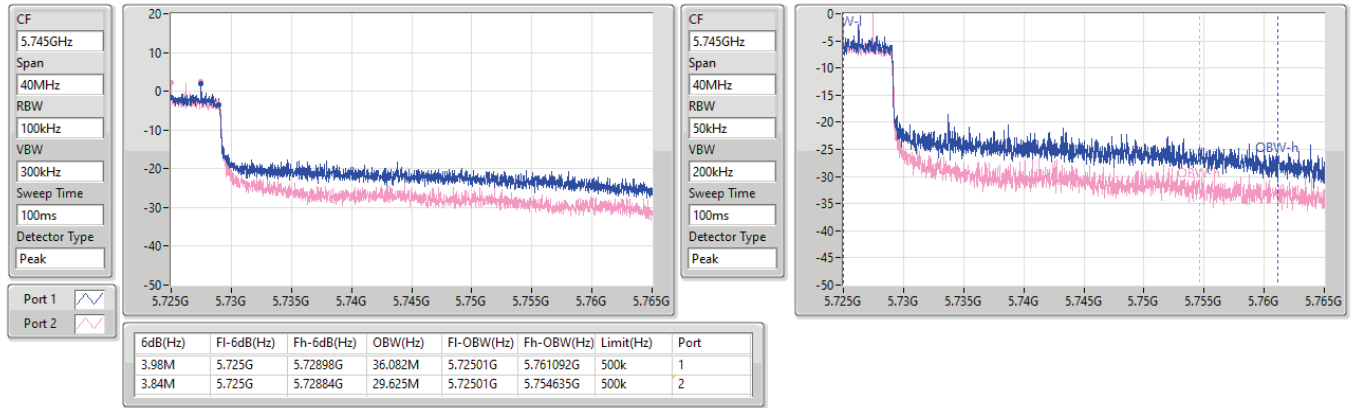
09/10/2022



5.725-5.85GHz_802.11ax HEW80_Nss1,(MCS0)_2TX 5690MHz Straddle 5.725-5.85GHz

EBW

09/10/2022





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

Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.25-5.35GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	20.7M	16.388M	16M4D1D	20.16M	16.363M
802.11n HT20_Nss1,(MCS0)_2TX	21.84M	17.602M	17M6D1D	21.18M	17.568M
802.11n HT40_Nss1,(MCS0)_2TX	41.16M	36.203M	36M2D1D	40.5M	36.026M
802.11ac VHT20_Nss1,(MCS0)_2TX	21.66M	17.602M	17M6D1D	20.94M	17.543M
802.11ac VHT40_Nss1,(MCS0)_2TX	41.64M	36.203M	36M2D1D	40.44M	36.085M
802.11ac VHT80_Nss1,(MCS0)_2TX	82.44M	75.226M	75M2D1D	82.32M	75.226M
802.11ax HEW20_Nss1,(MCS0)_2TX	26.61M	18.983M	19M0D1D	21.36M	18.892M
802.11ax HEW40_Nss1,(MCS0)_2TX	41.04M	37.848M	37M8D1D	40.8M	37.672M
802.11ax HEW80_Nss1,(MCS0)_2TX	82.32M	76.99M	77M0D1D	82.08M	76.872M
5.47-5.725GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	25.41M	16.822M	16M8D1D	15.855M	13.358M
802.11n HT20_Nss1,(MCS0)_2TX	21.96M	17.752M	17M8D1D	15.84M	13.883M
802.11n HT40_Nss1,(MCS0)_2TX	51.555M	36.144M	36M1D1D	36.085M	32.954M
802.11ac VHT20_Nss1,(MCS0)_2TX	21.87M	17.749M	17M7D1D	15.915M	13.898M
802.11ac VHT40_Nss1,(MCS0)_2TX	51.1M	36.144M	36M1D1D	36.05M	32.954M
802.11ac VHT80_Nss1,(MCS0)_2TX	115.8M	75.344M	75M3D1D	81.48M	72.714M
802.11ac VHT160_Nss1,(MCS0)_2TX	165.12M	152.804M	153MD1D	164.16M	152.804M
802.11ax HEW20_Nss1,(MCS0)_2TX	33.51M	19.306M	19M3D1D	17.925M	14.603M
802.11ax HEW40_Nss1,(MCS0)_2TX	68.88M	38.083M	38M1D1D	40.26M	33.933M
802.11ax HEW80_Nss1,(MCS0)_2TX	112.95M	77.225M	77M2D1D	82.2M	73.613M
802.11ax HEW160_Nss1,(MCS0)_2TX	167.04M	154.449M	154MD1D	165.36M	153.979M
5.725-5.85GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	3.16M	3.498M	3M50D1D	3.14M	3.498M
802.11n HT20_Nss1,(MCS0)_2TX	3.76M	4.058M	4M06D1D	3.74M	4.038M
802.11n HT40_Nss1,(MCS0)_2TX	3.24M	21.129M	21M1D1D	3.22M	14.293M
802.11ac VHT20_Nss1,(MCS0)_2TX	3.88M	4.078M	4M08D1D	3.78M	4.058M
802.11ac VHT40_Nss1,(MCS0)_2TX	3.14M	20.75M	20M8D1D	3.12M	13.593M
802.11ac VHT80_Nss1,(MCS0)_2TX	3.18M	35.182M	35M2D1D	3.12M	34.403M
802.11ax HEW20_Nss1,(MCS0)_2TX	4.54M	4.578M	4M58D1D	4.46M	4.558M
802.11ax HEW40_Nss1,(MCS0)_2TX	4.12M	23.048M	23M0D1D	4.04M	17.251M
802.11ax HEW80_Nss1,(MCS0)_2TX	4.02M	36.342M	36M3D1D	4M	36.022M

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 A.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	-	-	-	-	-	-
5260MHz	Pass	Inf	20.55M	16.388M	20.58M	16.363M
5300MHz	Pass	Inf	20.64M	16.363M	20.16M	16.388M
5320MHz	Pass	Inf	20.7M	16.378M	20.61M	16.37M
5500MHz	Pass	Inf	20.94M	16.567M	20.67M	16.526M
5580MHz	Pass	Inf	25.41M	16.771M	24.81M	16.822M
5700MHz	Pass	Inf	20.49M	16.516M	20.04M	16.49M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	17.175M	13.418M	15.855M	13.358M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	3.14M	3.498M	3.16M	3.498M
802.11n HT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5260MHz	Pass	Inf	21.3M	17.602M	21.3M	17.602M
5300MHz	Pass	Inf	21.45M	17.572M	21.18M	17.572M
5320MHz	Pass	Inf	21.45M	17.568M	21.84M	17.597M
5500MHz	Pass	Inf	21.9M	17.752M	21.96M	17.724M
5580MHz	Pass	Inf	21.72M	17.69M	21.69M	17.749M
5700MHz	Pass	Inf	21.57M	17.69M	21.78M	17.719M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	15.945M	13.883M	15.84M	13.898M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	3.74M	4.038M	3.76M	4.058M
802.11n HT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5270MHz	Pass	Inf	41.16M	36.203M	40.5M	36.144M
5310MHz	Pass	Inf	40.62M	36.144M	40.56M	36.026M
5510MHz	Pass	Inf	39.54M	36.026M	39.66M	35.968M
5550MHz	Pass	Inf	41.22M	36.144M	49.44M	36.144M
5670MHz	Pass	Inf	39.54M	35.968M	39.66M	35.968M
5710MHz Straddle 5.47-5.725GHz	Pass	Inf	36.085M	32.954M	51.555M	33.128M
5710MHz Straddle 5.725-5.85GHz	Pass	500k	3.22M	14.293M	3.24M	21.129M
802.11ac VHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5260MHz	Pass	Inf	21.39M	17.602M	21.33M	17.602M
5300MHz	Pass	Inf	21.09M	17.572M	20.94M	17.543M
5320MHz	Pass	Inf	21.66M	17.572M	21.27M	17.572M
5500MHz	Pass	Inf	21.18M	17.747M	21.6M	17.712M
5580MHz	Pass	Inf	21.87M	17.719M	21.87M	17.749M
5700MHz	Pass	Inf	21.51M	17.69M	21.66M	17.749M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	15.915M	13.898M	16.065M	13.898M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	3.78M	4.058M	3.88M	4.078M
802.11ac VHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5270MHz	Pass	Inf	41.46M	36.203M	40.74M	36.144M
5310MHz	Pass	Inf	41.64M	36.144M	40.44M	36.085M
5510MHz	Pass	Inf	39.78M	36.026M	39.84M	35.968M
5550MHz	Pass	Inf	41.34M	36.144M	49.56M	36.144M
5670MHz	Pass	Inf	39.3M	35.968M	39.78M	36.026M
5710MHz Straddle 5.47-5.725GHz	Pass	Inf	36.05M	32.954M	51.1M	33.128M
5710MHz Straddle 5.725-5.85GHz	Pass	500k	3.12M	13.593M	3.14M	20.75M
802.11ac VHT80_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5290MHz	Pass	Inf	82.32M	75.226M	82.44M	75.226M
5530MHz	Pass	Inf	81.48M	75.344M	82.32M	75.344M
5610MHz	Pass	Inf	81.84M	75.344M	82.2M	75.226M
5690MHz Straddle 5.47-5.725GHz	Pass	Inf	106.8M	72.714M	115.8M	72.789M
5690MHz Straddle 5.725-5.85GHz	Pass	500k	3.12M	34.403M	3.18M	35.182M
802.11ac VHT160_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5570MHz	Pass	Inf	165.12M	152.804M	164.16M	152.804M
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5260MHz	Pass	Inf	21.69M	18.924M	21.75M	18.895M
5300MHz	Pass	Inf	26.61M	18.983M	21.42M	18.895M
5320MHz	Pass	Inf	21.36M	18.892M	21.48M	18.907M



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

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
5500MHz	Pass	Inf	21.9M	19.062M	21.78M	19.066M
5580MHz	Pass	Inf	30.93M	19.247M	33.51M	19.306M
5700MHz	Pass	Inf	21.69M	19.1M	21.9M	19.071M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	17.925M	14.603M	24.3M	14.768M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	4.46M	4.558M	4.54M	4.578M
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5270MHz	Pass	Inf	41.04M	37.848M	40.92M	37.79M
5310MHz	Pass	Inf	40.8M	37.672M	40.86M	37.731M
5510MHz	Pass	Inf	40.44M	37.672M	40.26M	37.613M
5550MHz	Pass	Inf	65.88M	37.907M	68.88M	38.083M
5670MHz	Pass	Inf	40.38M	37.613M	40.44M	37.613M
5710MHz Straddle 5.47-5.725GHz	Pass	Inf	48.02M	33.933M	60.48M	34.458M
5710MHz Straddle 5.725-5.85GHz	Pass	500k	4.04M	17.251M	4.12M	23.048M
802.11ax HEW80_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5290MHz	Pass	Inf	82.32M	76.99M	82.08M	76.872M
5530MHz	Pass	Inf	82.56M	77.107M	82.2M	76.99M
5610MHz	Pass	Inf	82.2M	77.107M	82.2M	77.225M
5690MHz Straddle 5.47-5.725GHz	Pass	Inf	101.55M	73.613M	112.95M	73.688M
5690MHz Straddle 5.725-5.85GHz	Pass	500k	4.02M	36.022M	4M	36.342M
802.11ax HEW160_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5570MHz	Pass	Inf	165.36M	153.979M	167.04M	154.449M

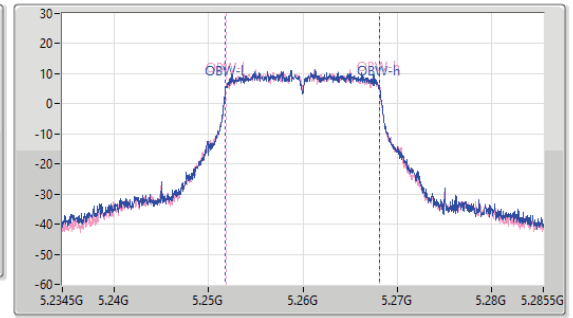
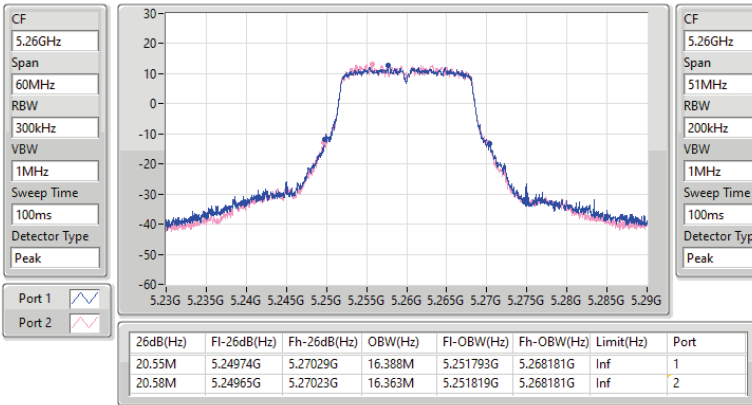
Port X-N dB = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band
Port X-OBW = Port X 99% occupied bandwidth

5.25-5.35GHz_802.11a_Nss1,(6Mbps)_2TX

EBW

5260MHz

10/10/2022

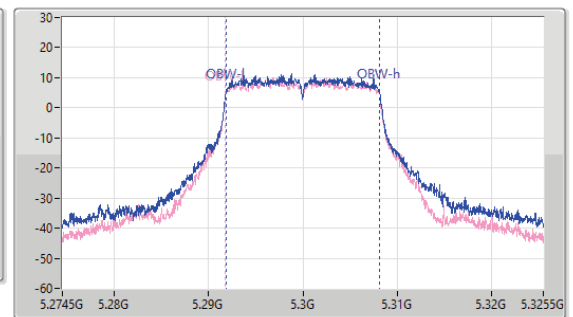
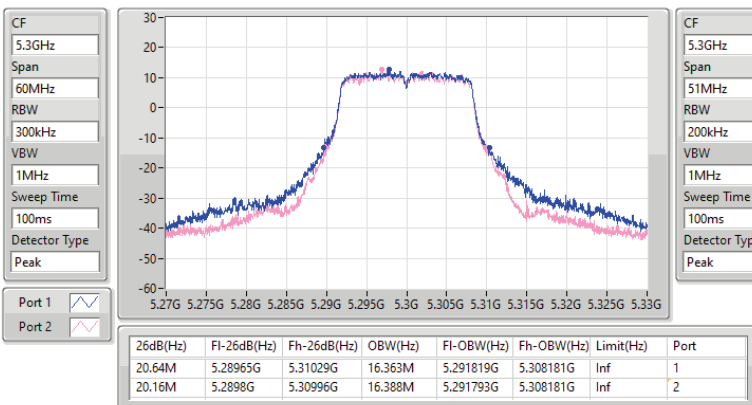


5.25-5.35GHz_802.11a_Nss1,(6Mbps)_2TX

EBW

5300MHz

10/10/2022

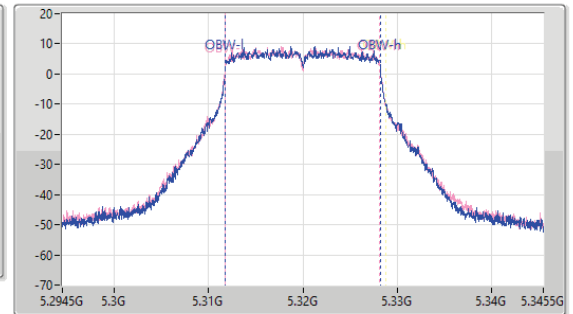
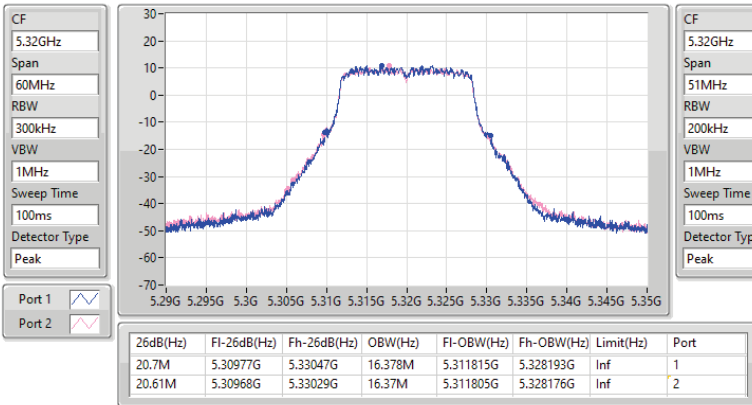


5.25-5.35GHz_802.11a_Nss1,(6Mbps)_2TX

EBW

5320MHz

14/04/2023

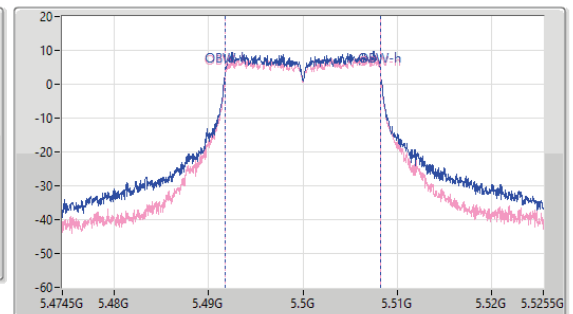
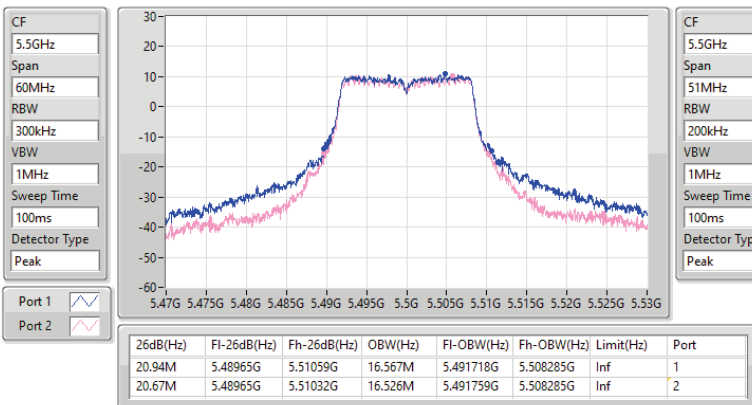


5.47-5.725GHz_802.11a_Nss1,(6Mbps)_2TX

EBW

5500MHz

14/04/2023

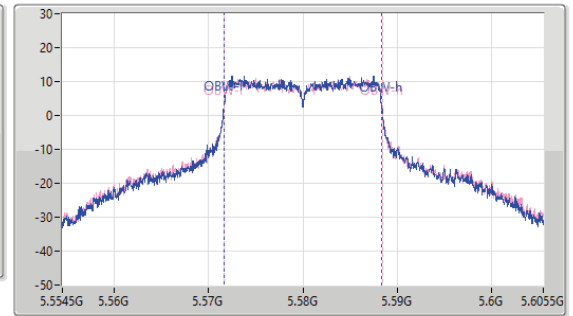
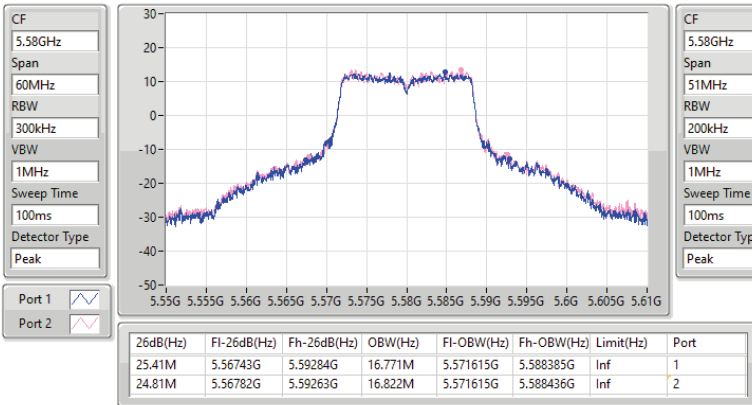


5.47-5.725GHz_802.11a_Nss1,(6Mbps)_2TX

EBW

5580MHz

10/10/2022

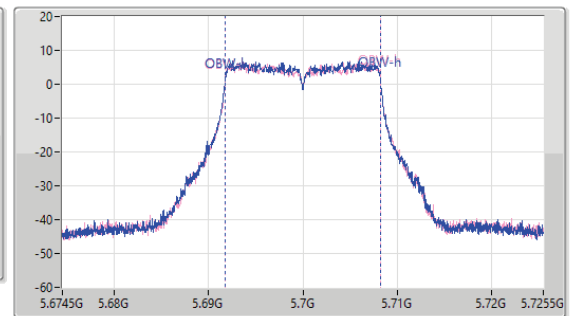
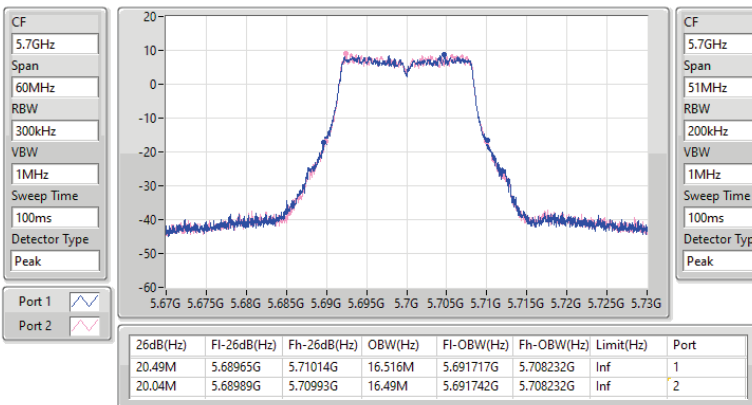


5.47-5.725GHz_802.11a_Nss1,(6Mbps)_2TX

EBW

5700MHz

10/10/2022

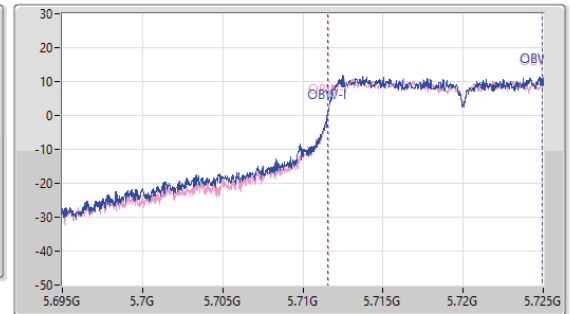
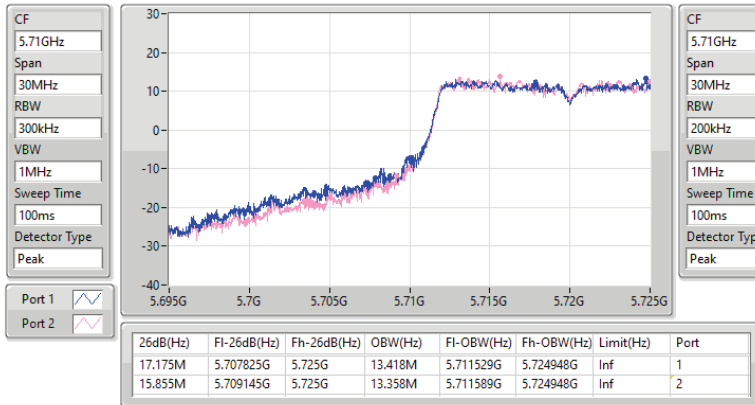


5.47-5.725GHz_802.11a_Nss1,(6Mbps)_2TX

EBW

5720MHz Straddle 5.47-5.725GHz

10/10/2022

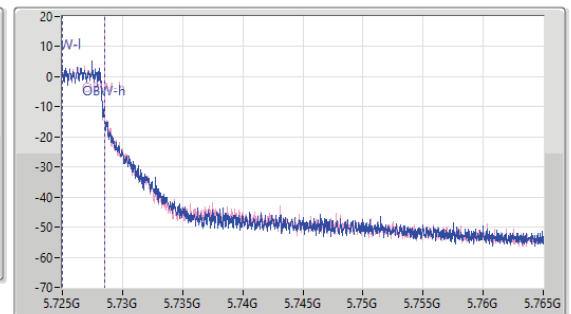
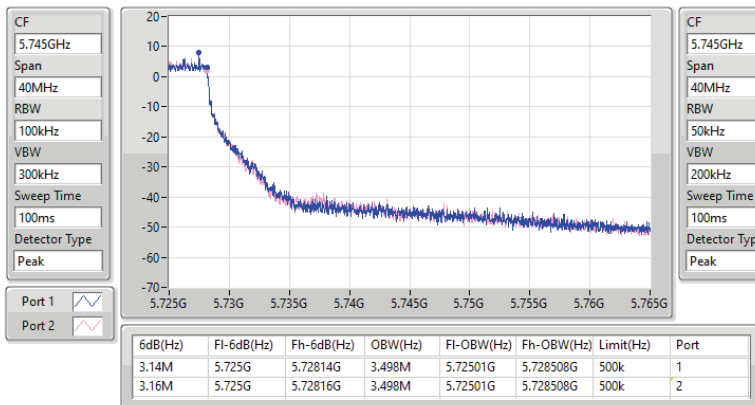


5.725-5.85GHz_802.11a_Nss1,(6Mbps)_2TX

EBW

5720MHz Straddle 5.725-5.85GHz

10/10/2022

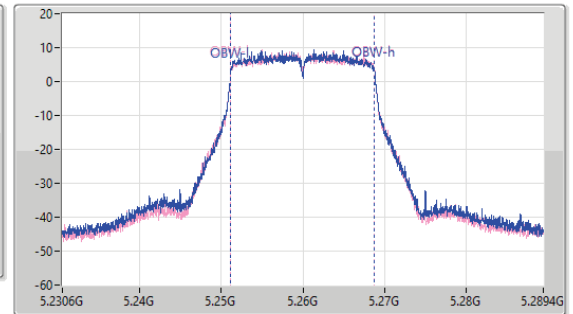
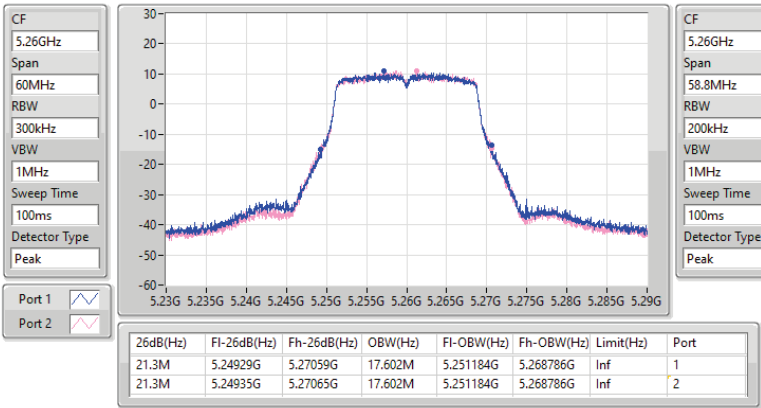


5.25-5.35GHz_802.11n HT20_Nss1,(MCS0)_2TX

EBW

5260MHz

10/10/2022

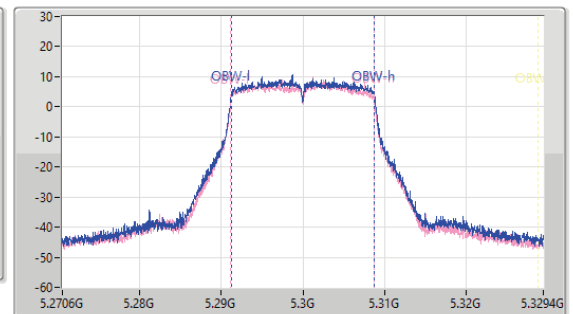
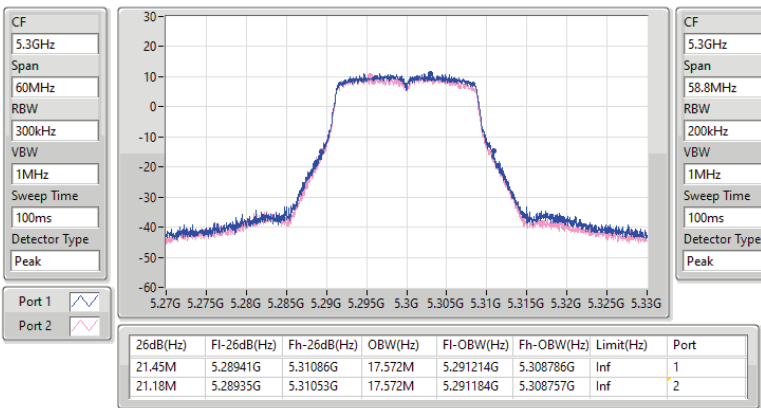


5.25-5.35GHz_802.11n HT20_Nss1,(MCS0)_2TX

EBW

5300MHz

10/10/2022

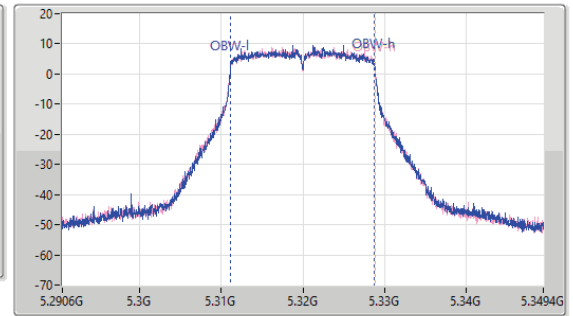
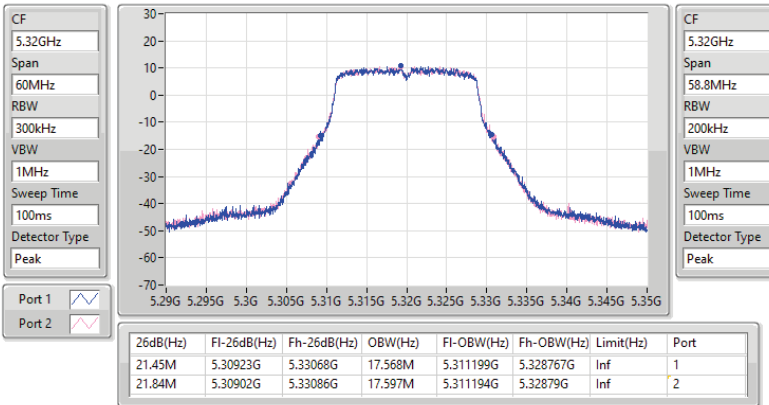


5.25-5.35GHz_802.11n HT20_Nss1,(MCS0)_2TX

5320MHz

EBW

14/04/2023

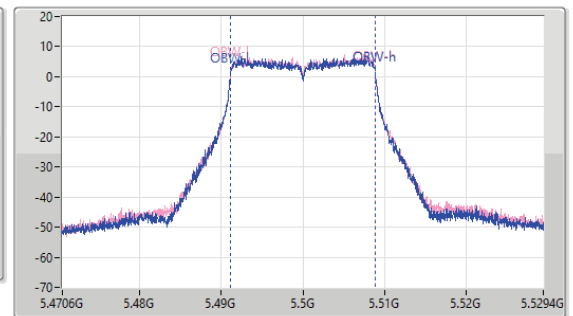
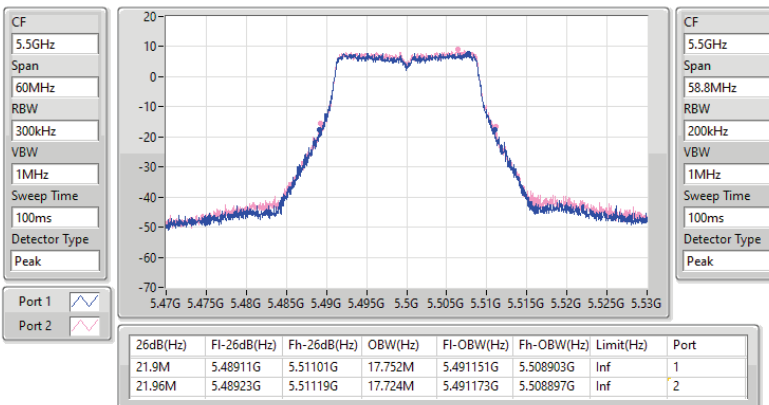


5.47-5.725GHz_802.11n HT20_Nss1,(MCS0)_2TX

5500MHz

EBW

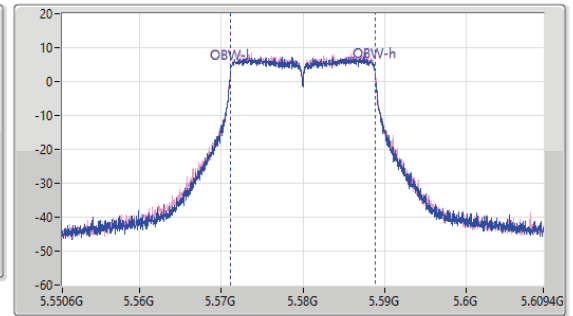
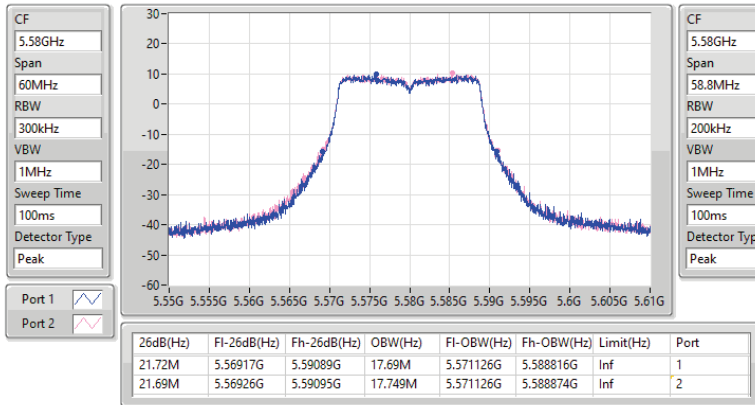
14/04/2023



5.47-5.725GHz_802.11n HT20_Nss1,(MCS0)_2TX 5580MHz

EBW

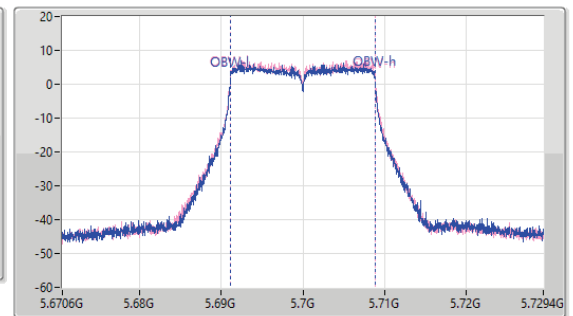
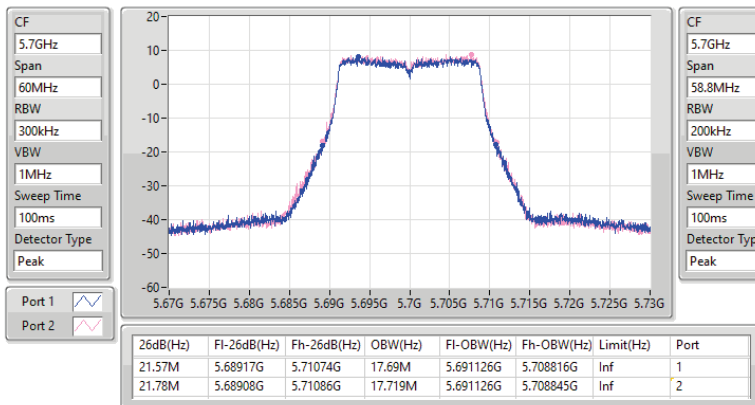
11/10/2022



5.47-5.725GHz_802.11n HT20_Nss1,(MCS0)_2TX 5700MHz

EBW

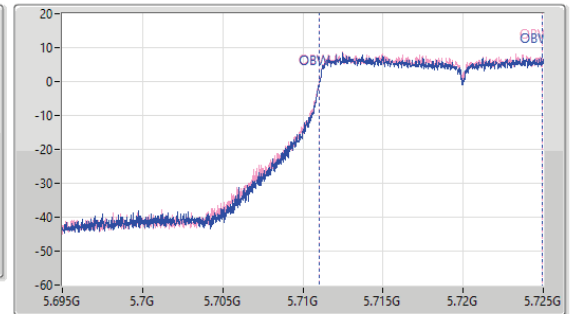
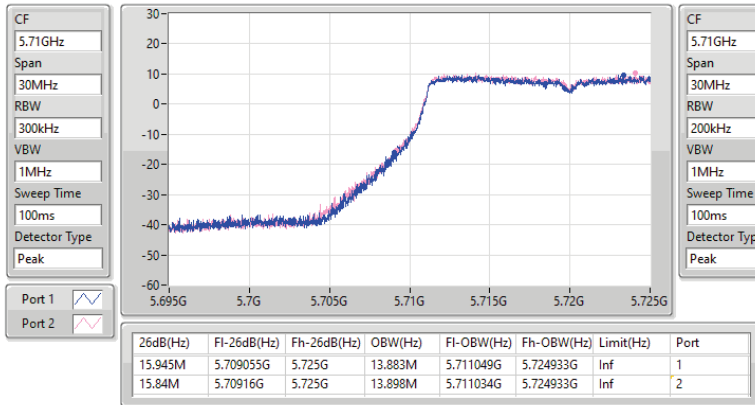
11/10/2022



5.47-5.725GHz_802.11n HT20_Nss1,(MCS0)_2TX 5720MHz Straddle 5.47-5.725GHz

EBW

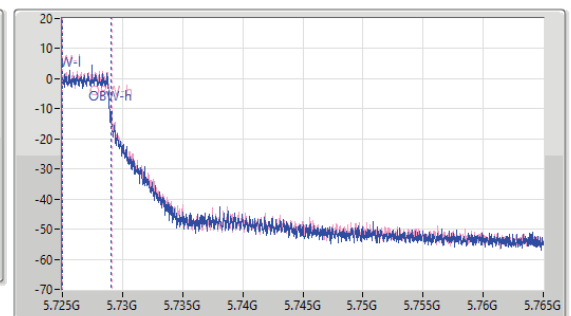
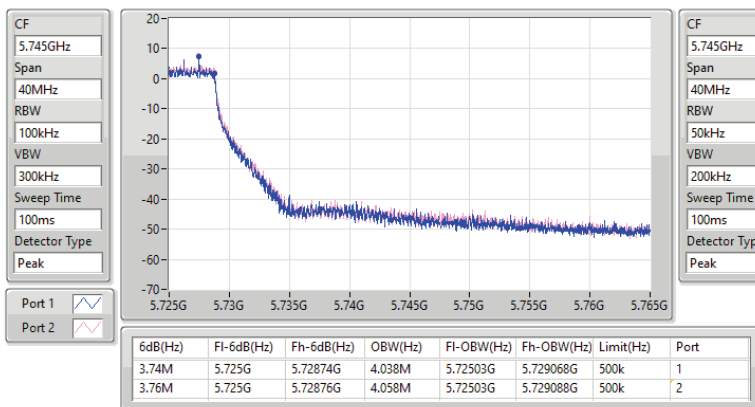
11/10/2022



5.725-5.85GHz_802.11n HT20_Nss1,(MCS0)_2TX 5720MHz Straddle 5.725-5.85GHz

EBW

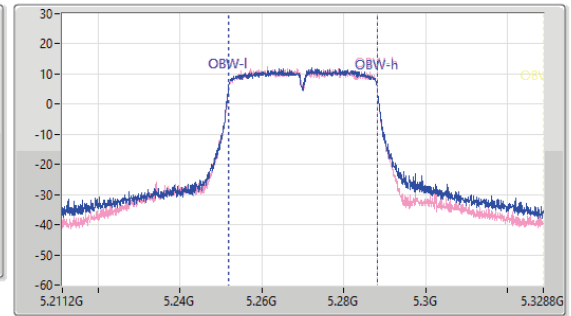
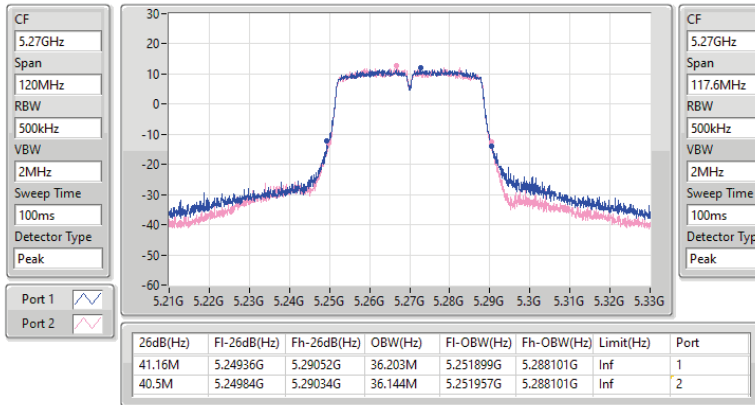
11/10/2022



5.25-5.35GHz_802.11n HT40_Nss1,(MCS0)_2TX 5270MHz

EBW

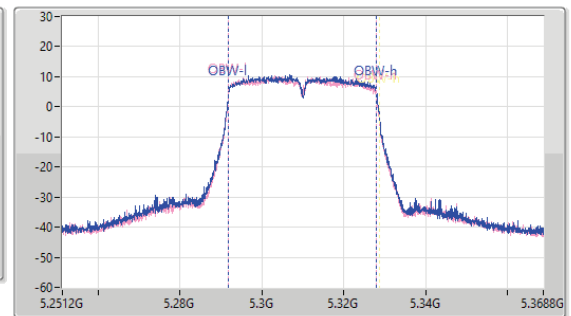
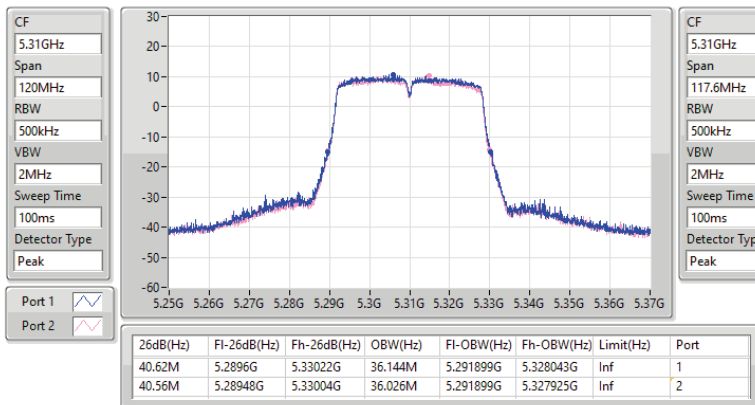
10/10/2022



5.25-5.35GHz_802.11n HT40_Nss1,(MCS0)_2TX 5310MHz

EBW

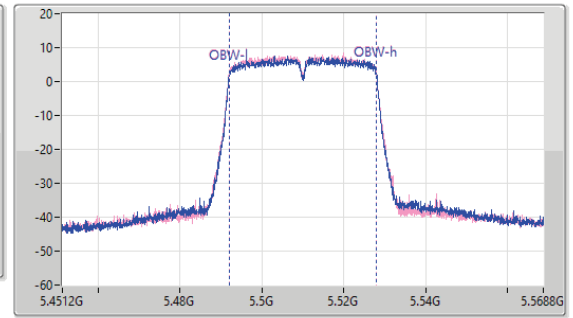
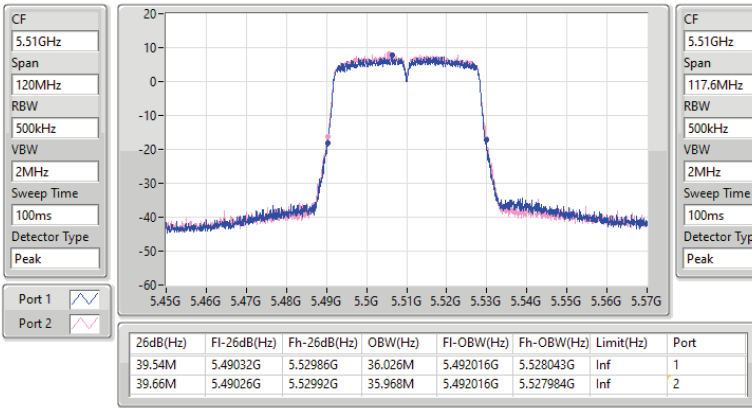
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5.47-5.725GHz_802.11n HT40_Nss1,(MCS0)_2TX 5510MHz

EBW

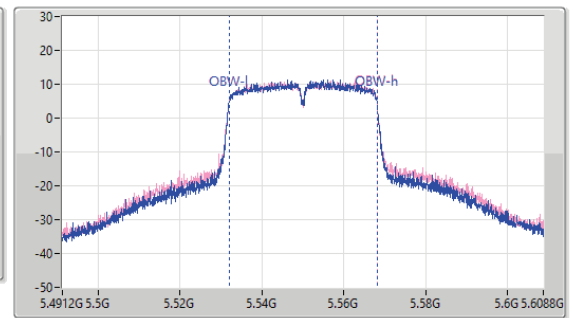
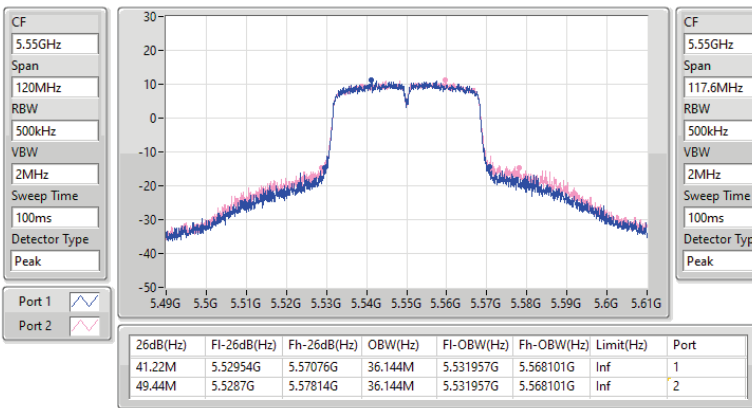
11/10/2022



5.47-5.725GHz_802.11n HT40_Nss1,(MCS0)_2TX 5550MHz

EBW

11/10/2022

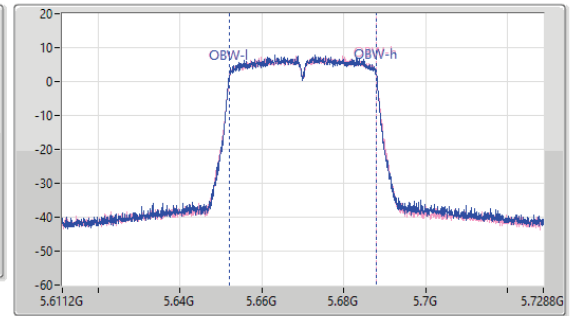
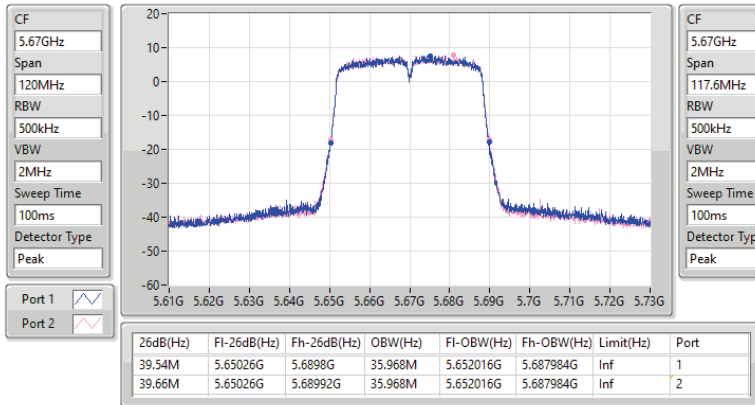


5.47-5.725GHz_802.11n HT40_Nss1,(MCS0)_2TX

EBW

5670MHz

11/10/2022

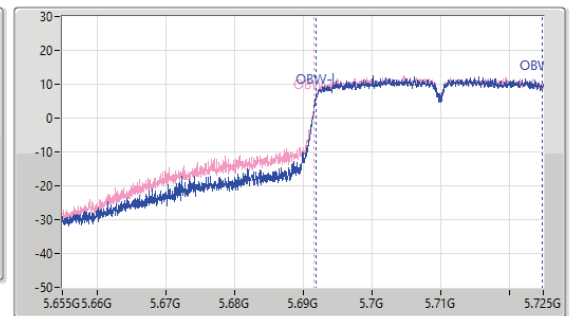
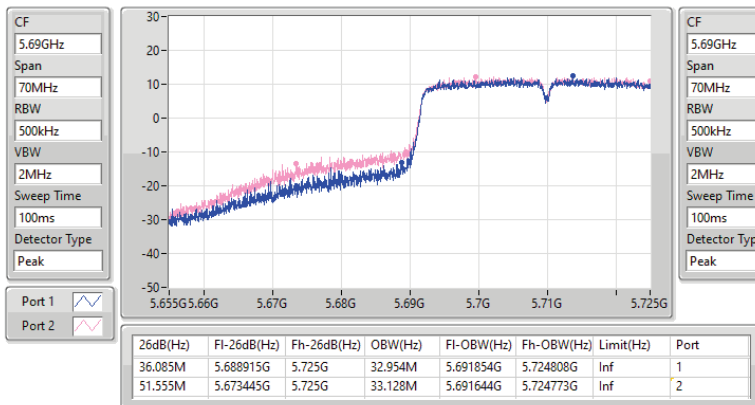


5.47-5.725GHz_802.11n HT40_Nss1,(MCS0)_2TX

EBW

5710MHz Straddle 5.47-5.725GHz

11/10/2022

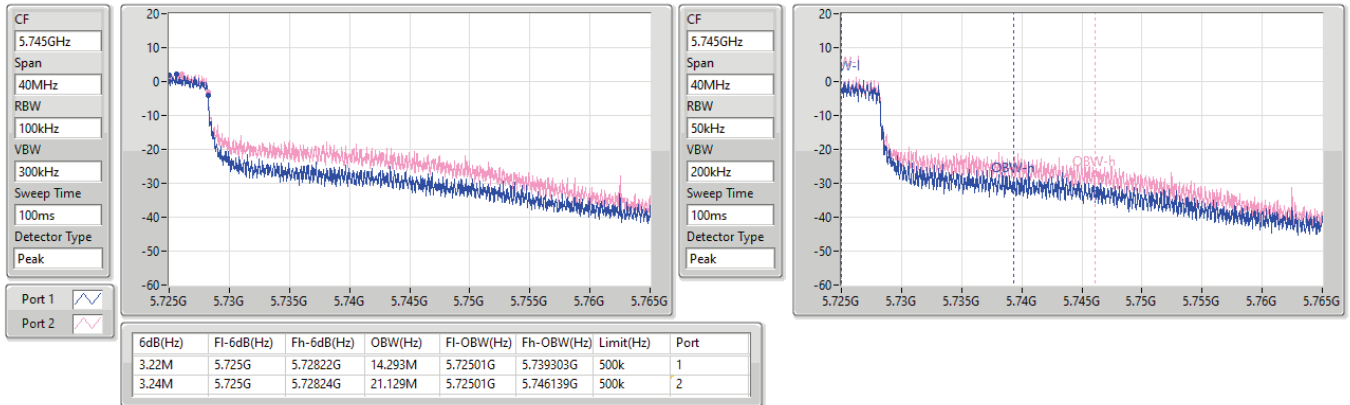


5.725-5.85GHz_802.11n HT40_Nss1,(MCS0)_2TX

EBW

5710MHz Straddle 5.725-5.85GHz

11/10/2022

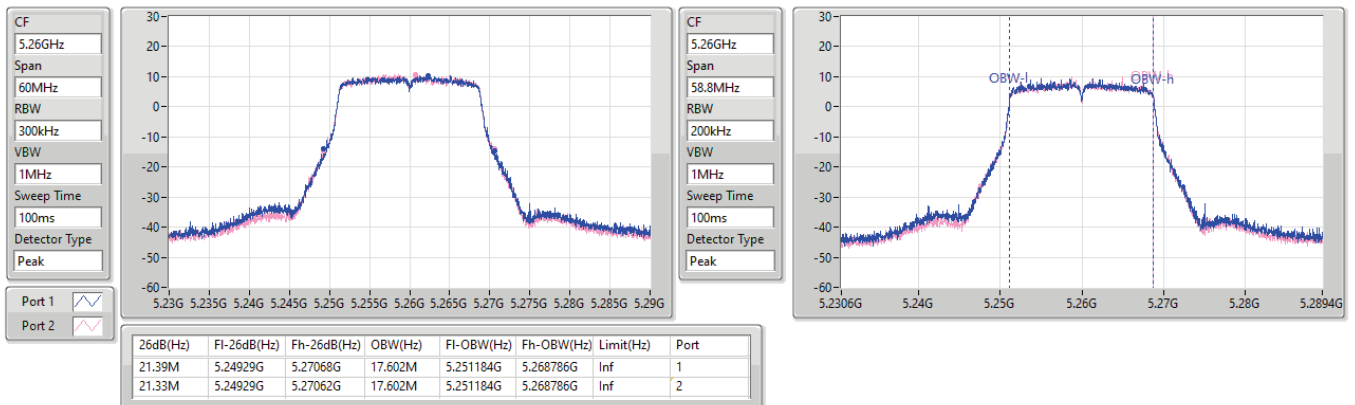


5.25-5.35GHz_802.11ac VHT20_Nss1,(MCS0)_2TX

EBW

5260MHz

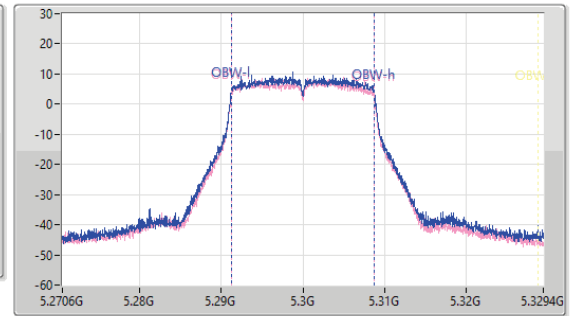
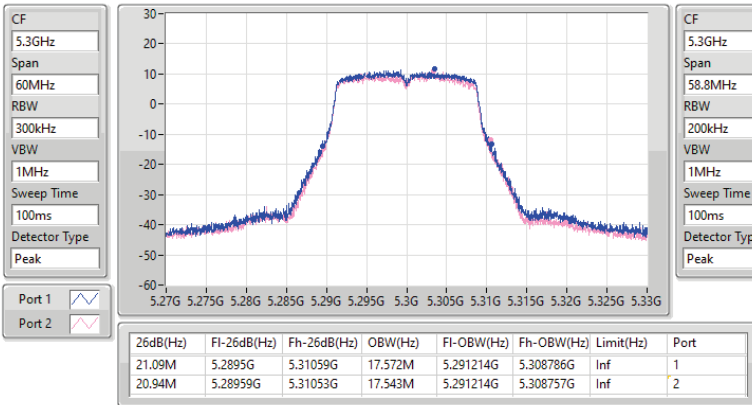
10/10/2022



5.25-5.35GHz_802.11ac VHT20_Nss1,(MCS0)_2TX 5300MHz

EBW

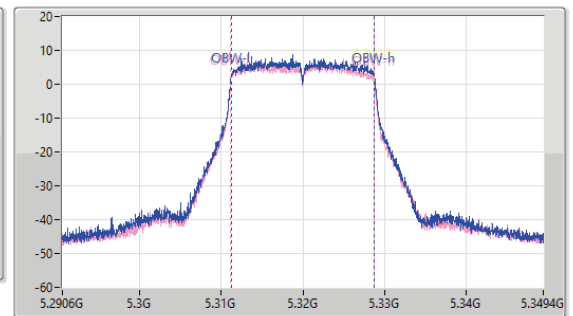
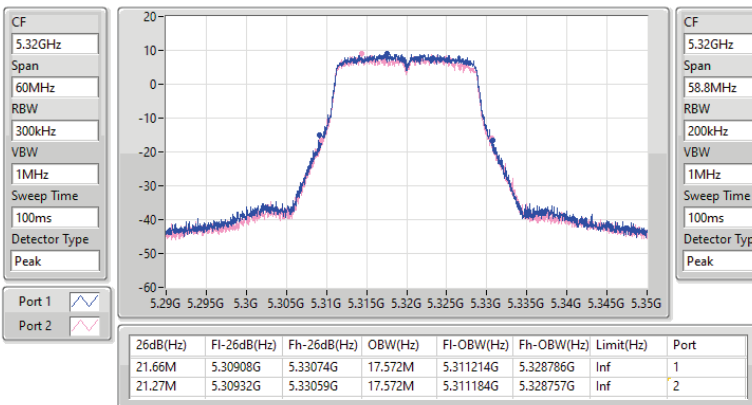
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5.25-5.35GHz_802.11ac VHT20_Nss1,(MCS0)_2TX 5320MHz

EBW

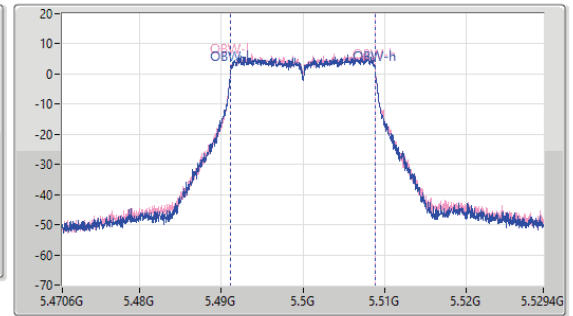
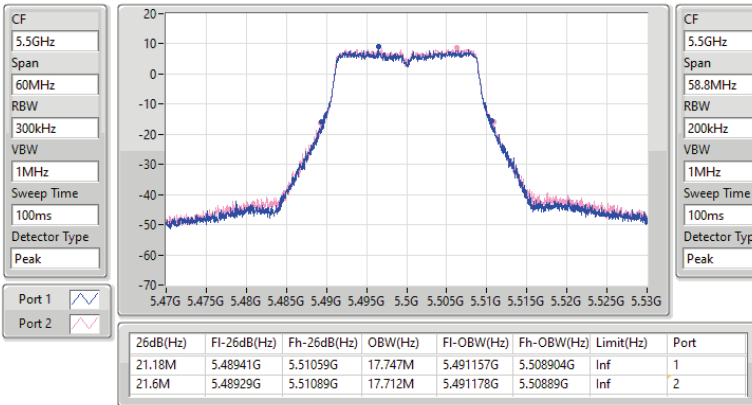
10/10/2022



5.47-5.725GHz_802.11ac VHT20_Nss1,(MCS0)_2TX 5500MHz

EBW

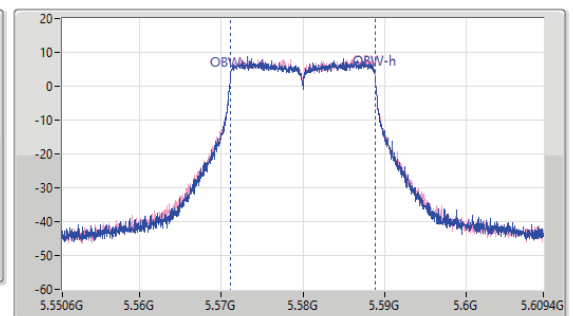
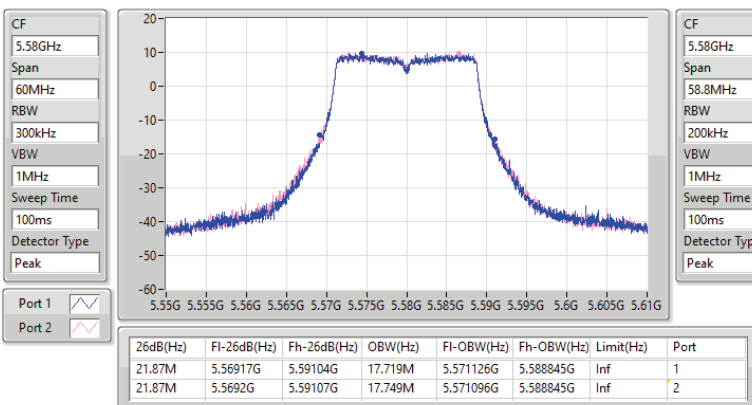
14/04/2023



5.47-5.725GHz_802.11ac VHT20_Nss1,(MCS0)_2TX 5580MHz

EBW

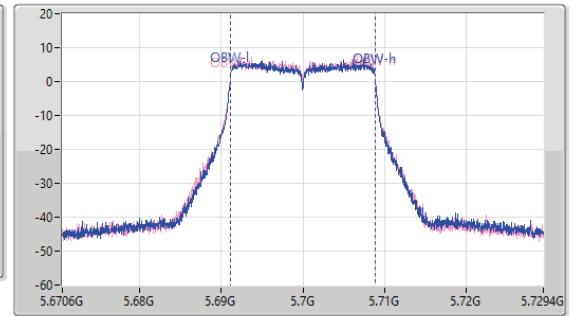
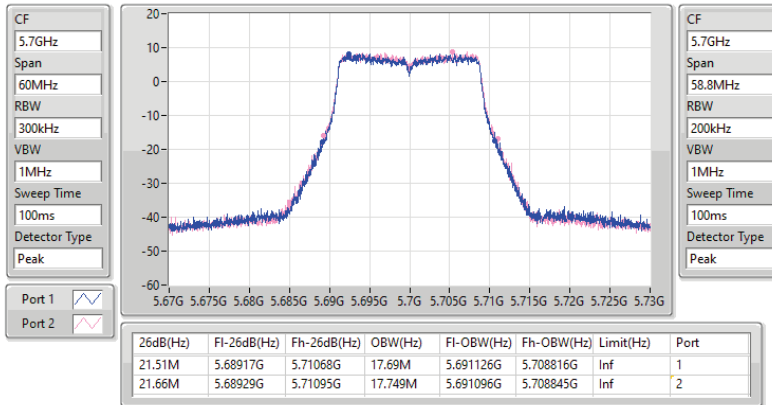
11/10/2022



5.47-5.725GHz_802.11ac VHT20_Nss1,(MCS0)_2TX 5700MHz

EBW

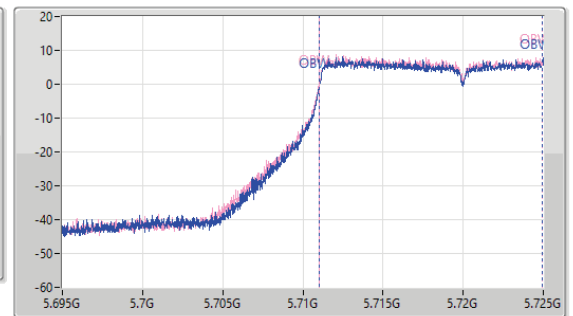
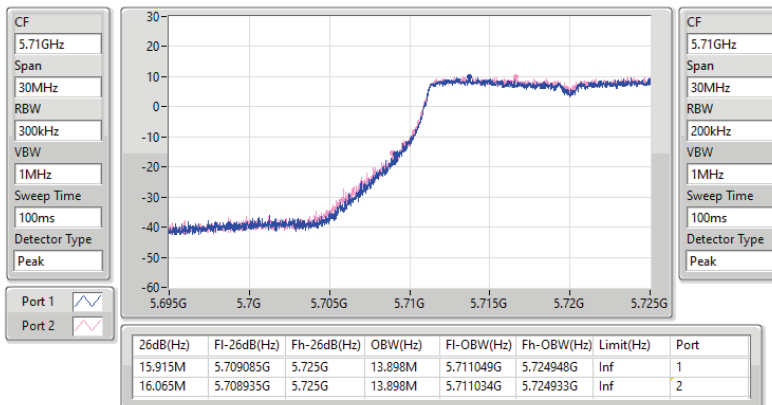
11/10/2022



5.47-5.725GHz_802.11ac VHT20_Nss1,(MCS0)_2TX 5720MHz Straddle 5.47-5.725GHz

EBW

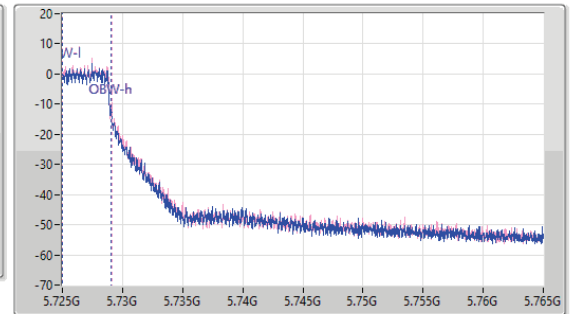
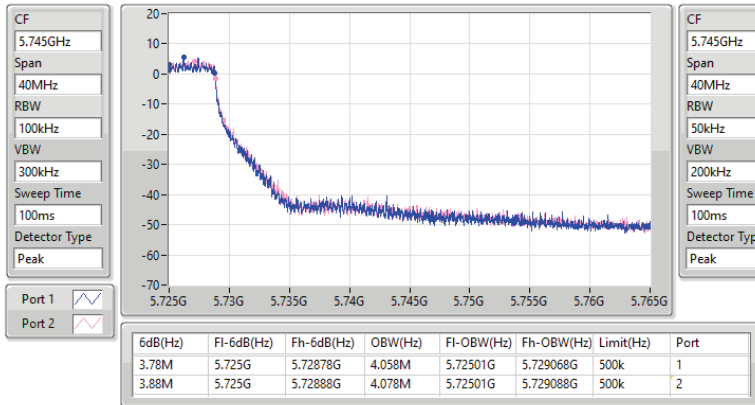
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5.725-5.85GHz_802.11ac VHT20_Nss1,(MCS0)_2TX 5720MHz Straddle 5.725-5.85GHz

EBW

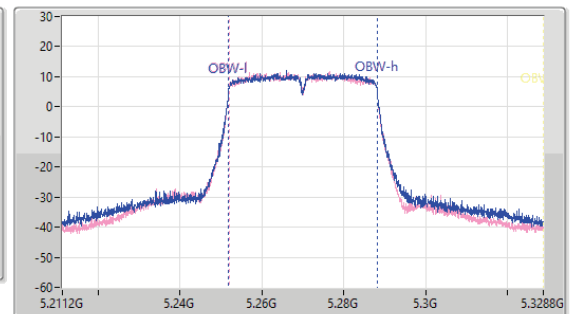
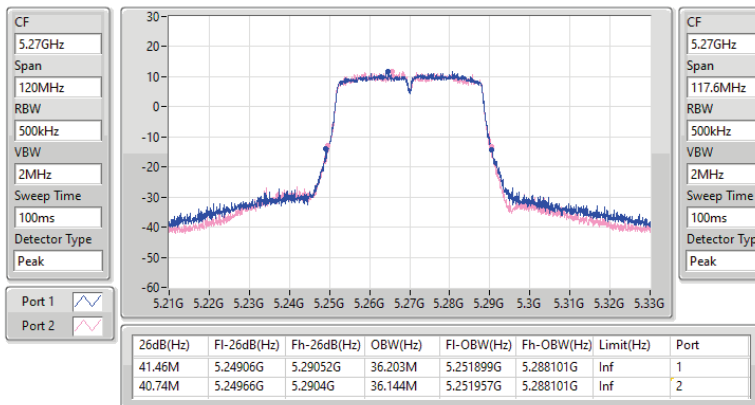
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5.25-5.35GHz_802.11ac VHT40_Nss1,(MCS0)_2TX 5270MHz

EBW

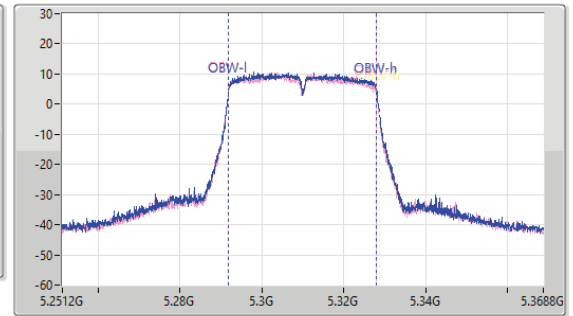
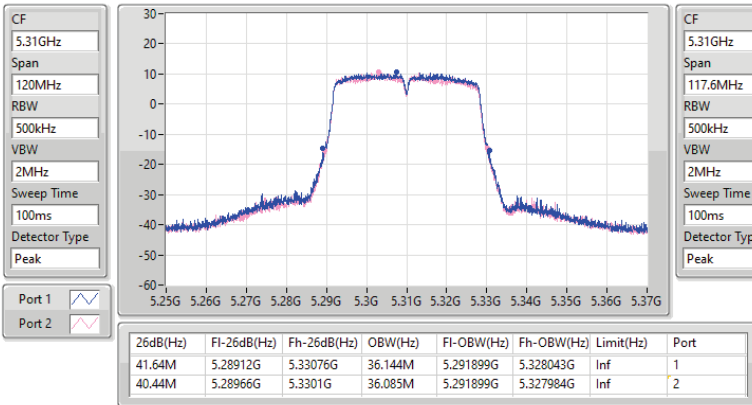
10/10/2022



5.25-5.35GHz_802.11ac VHT40_Nss1,(MCS0)_2TX 5310MHz

EBW

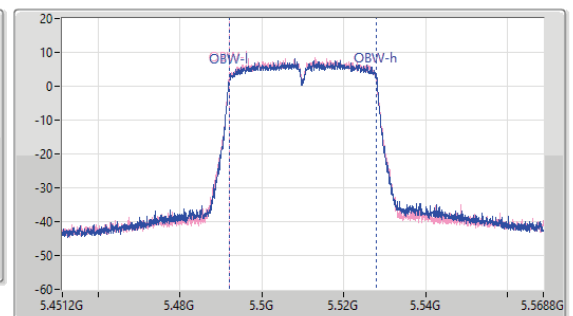
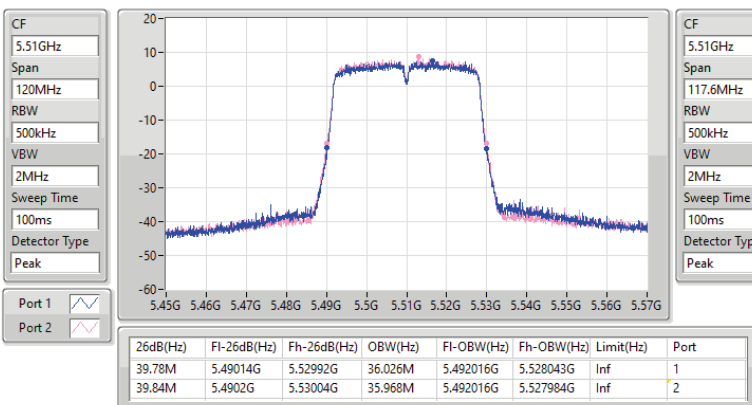
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5.47-5.725GHz_802.11ac VHT40_Nss1,(MCS0)_2TX 5510MHz

EBW

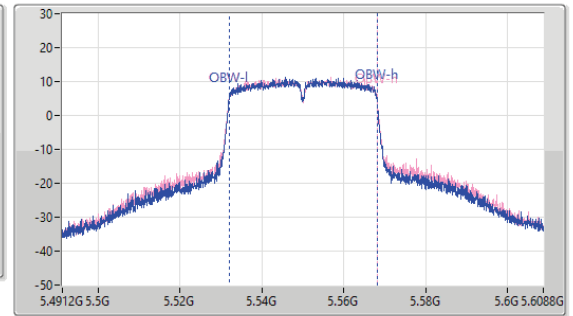
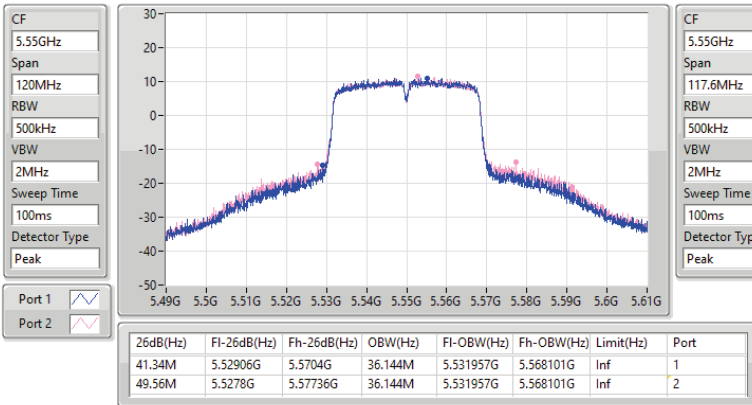
11/10/2022



5.47-5.725GHz_802.11ac VHT40_Nss1,(MCS0)_2TX 5550MHz

EBW

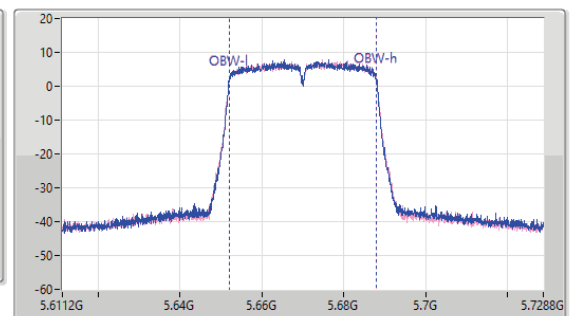
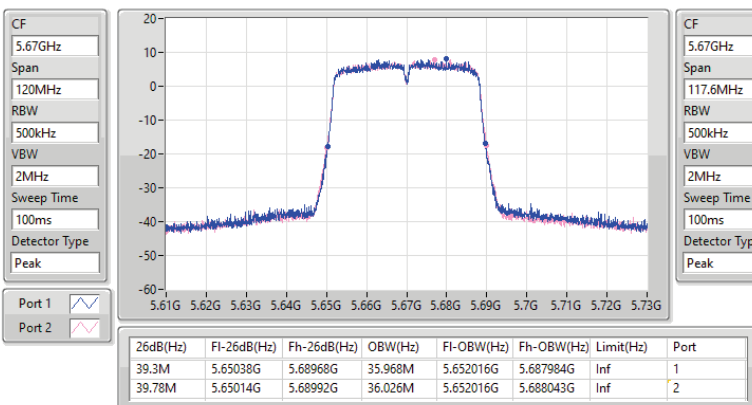
11/10/2022



5.47-5.725GHz_802.11ac VHT40_Nss1,(MCS0)_2TX 5670MHz

EBW

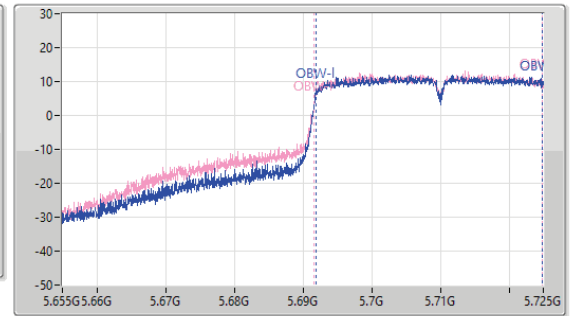
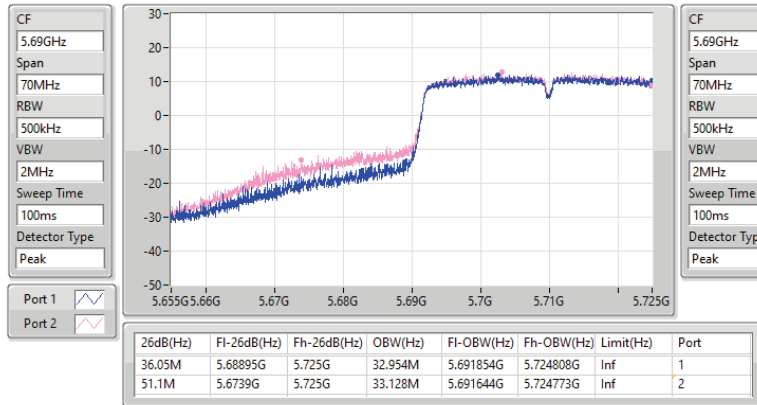
11/10/2022



5.47-5.725GHz_802.11ac VHT40_Nss1,(MCS0)_2TX 5710MHz Straddle 5.47-5.725GHz

EBW

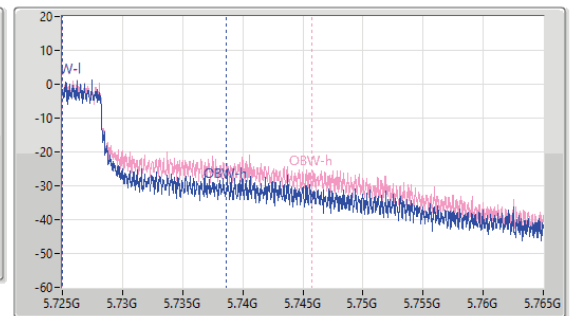
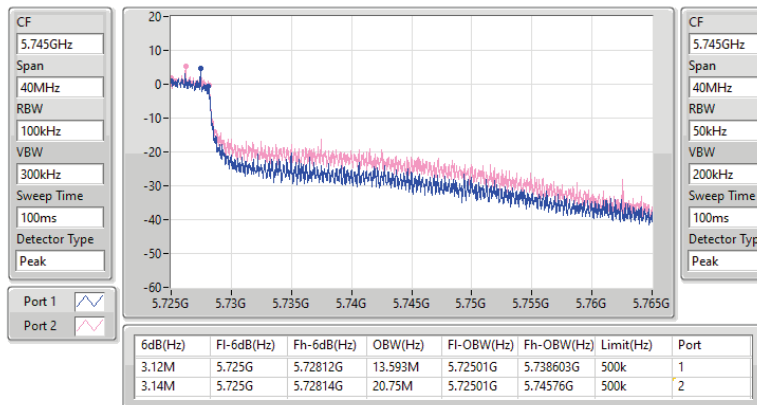
11/10/2022



5.725-5.85GHz_802.11ac VHT40_Nss1,(MCS0)_2TX 5710MHz Straddle 5.725-5.85GHz

EBW

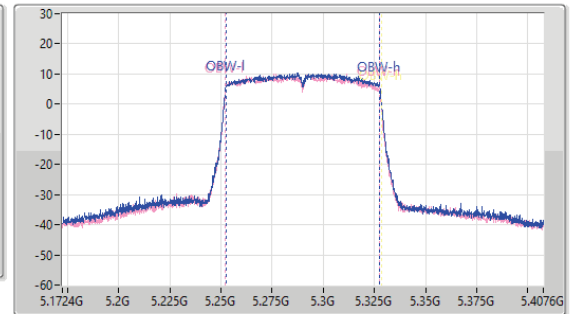
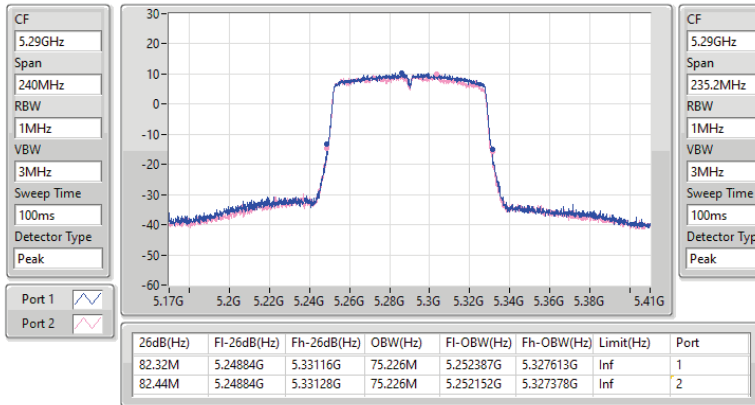
11/10/2022



5.25-5.35GHz_802.11ac VHT80_Nss1,(MCS0)_2TX 5290MHz

EBW

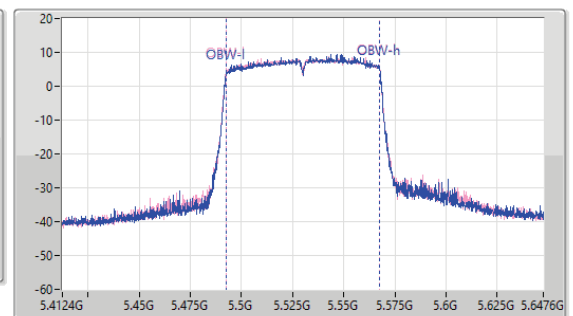
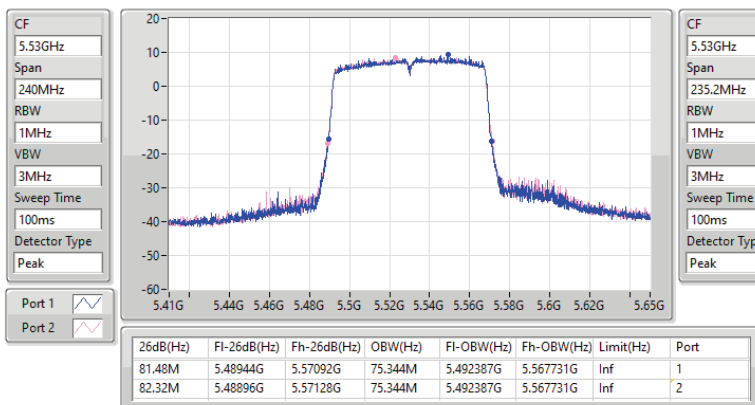
10/10/2022



5.47-5.725GHz_802.11ac VHT80_Nss1,(MCS0)_2TX 5530MHz

EBW

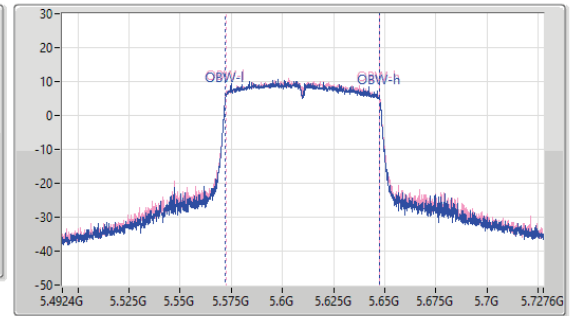
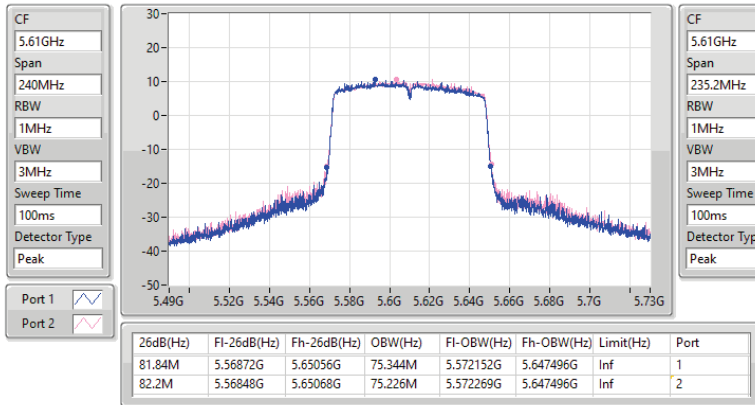
11/10/2022



5.47-5.725GHz_802.11ac VHT80_Nss1,(MCS0)_2TX 5610MHz

EBW

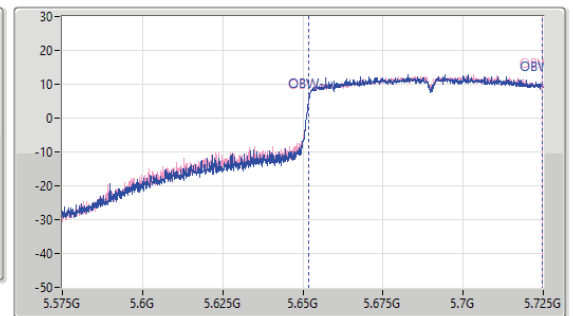
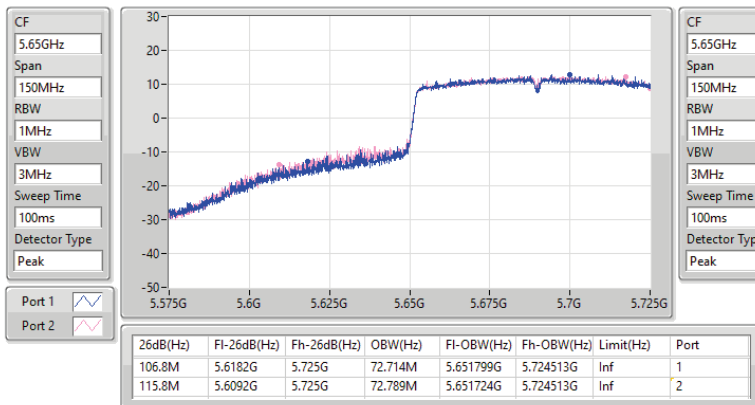
11/10/2022



5.47-5.725GHz_802.11ac VHT80_Nss1,(MCS0)_2TX 5690MHz Straddle 5.47-5.725GHz

EBW

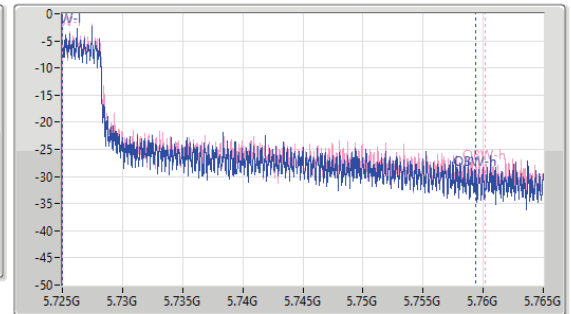
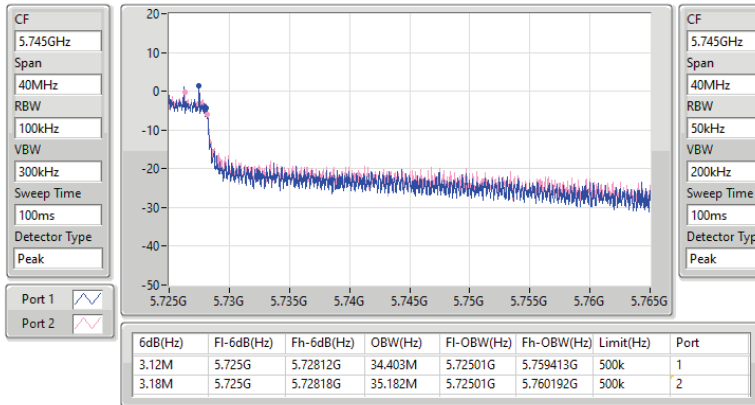
11/10/2022



5.725-5.85GHz_802.11ac VHT80_Nss1,(MCS0)_2TX 5690MHz Straddle 5.725-5.85GHz

EBW

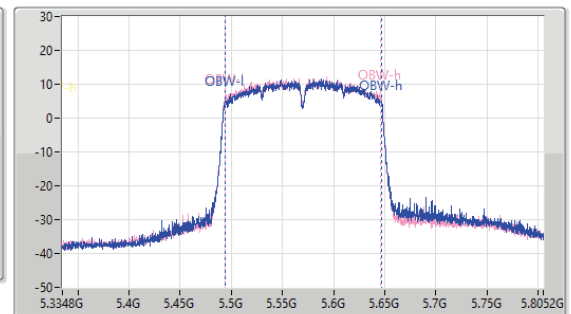
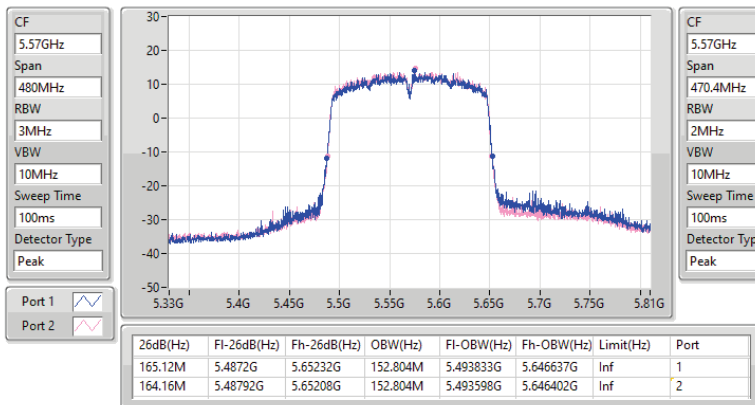
11/10/2022



5.47-5.725GHz_802.11ac VHT160_Nss1,(MCS0)_2TX 5570MHz

EBW

11/10/2022

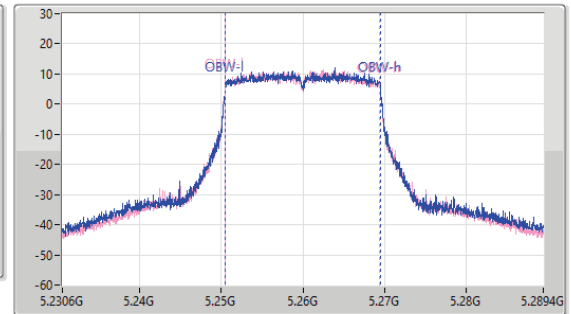
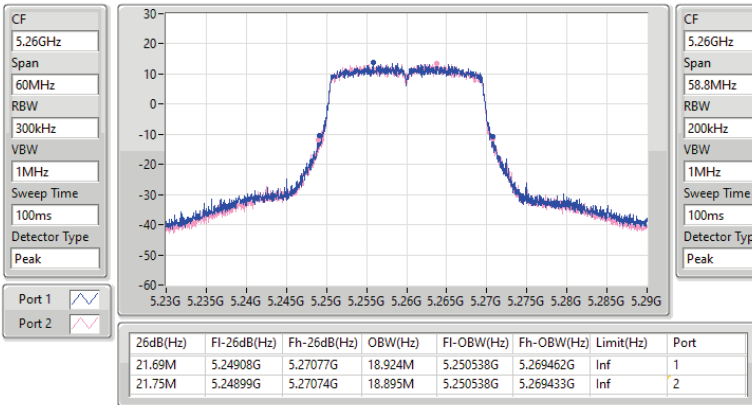


5.25-5.35GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

EBW

5260MHz

10/10/2022

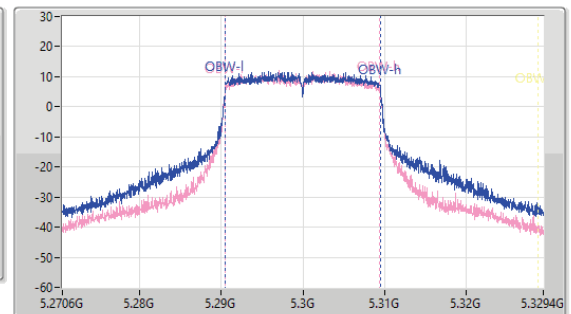
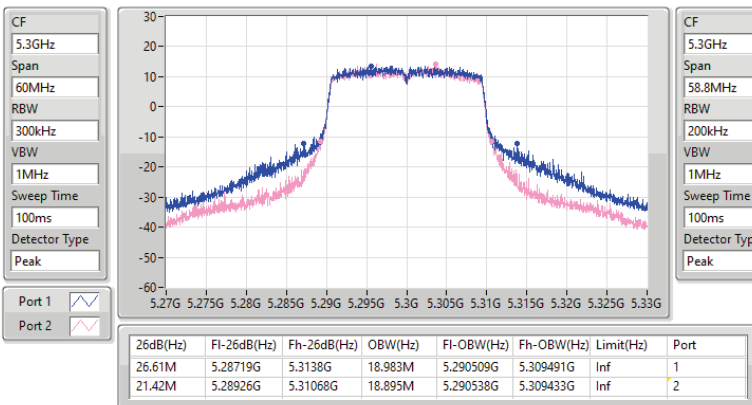


5.25-5.35GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

EBW

5300MHz

10/10/2022

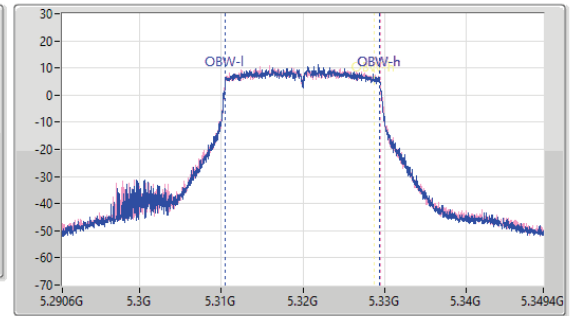
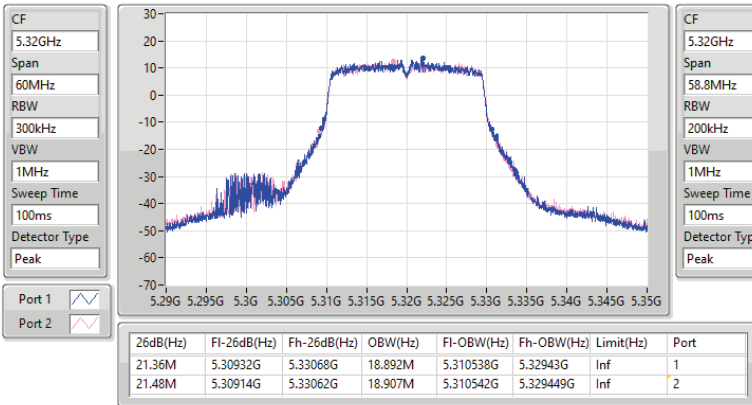


5.25-5.35GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

EBW

5320MHz

14/04/2023

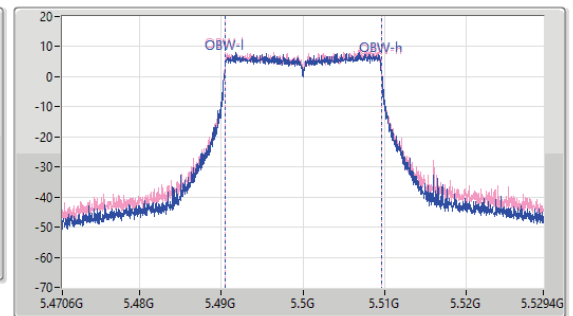
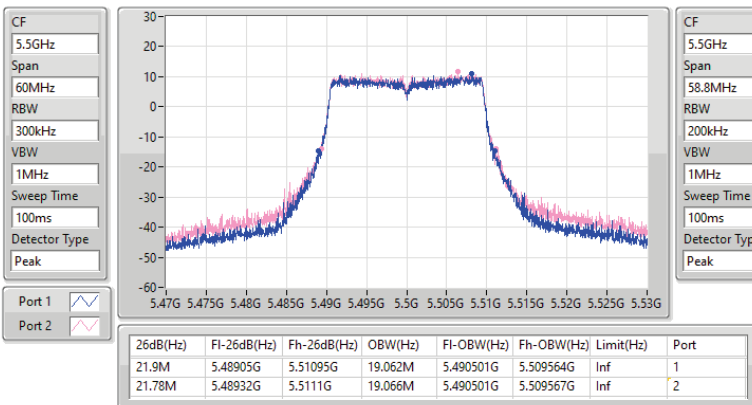


5.47-5.725GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

EBW

5500MHz

14/04/2023

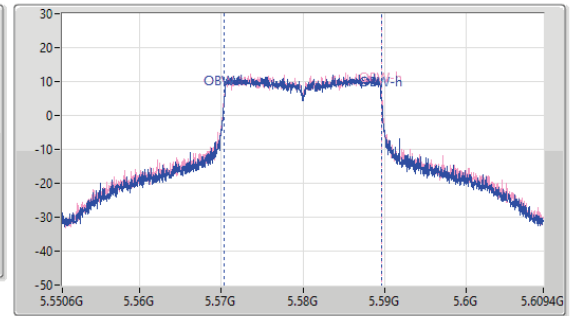
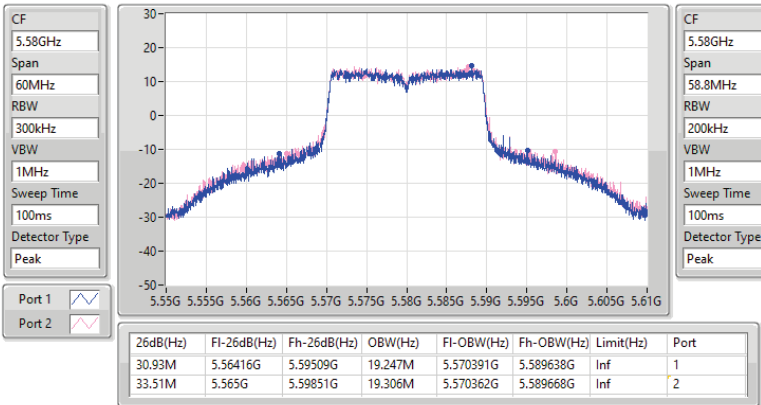


5.47-5.725GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

EBW

5580MHz

11/10/2022

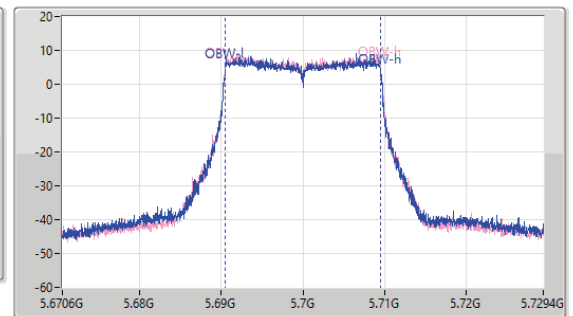
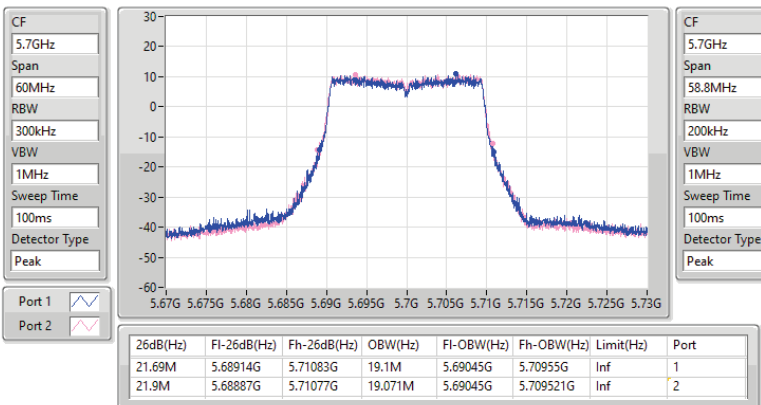


5.47-5.725GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

EBW

5700MHz

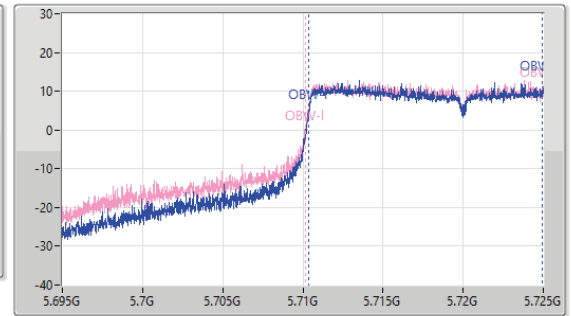
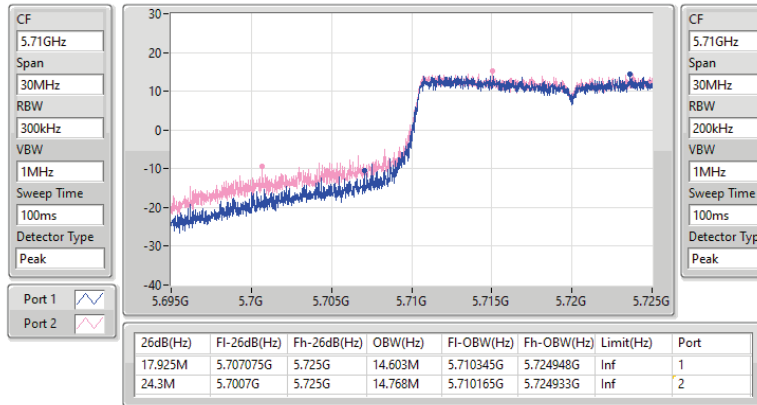
11/10/2022



5.47-5.725GHz_802.11ax HEW20_Nss1,(MCS0)_2TX 5720MHz Straddle 5.47-5.725GHz

EBW

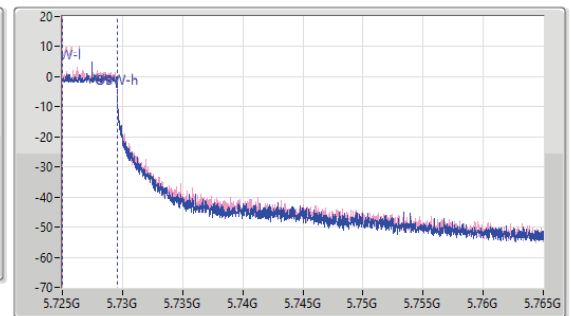
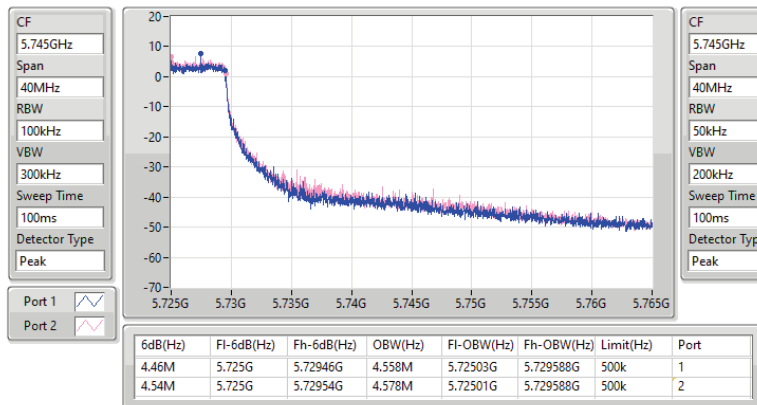
11/10/2022



5.725-5.85GHz_802.11ax HEW20_Nss1,(MCS0)_2TX 5720MHz Straddle 5.725-5.85GHz

EBW

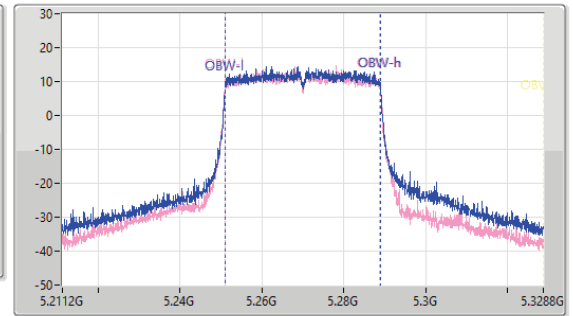
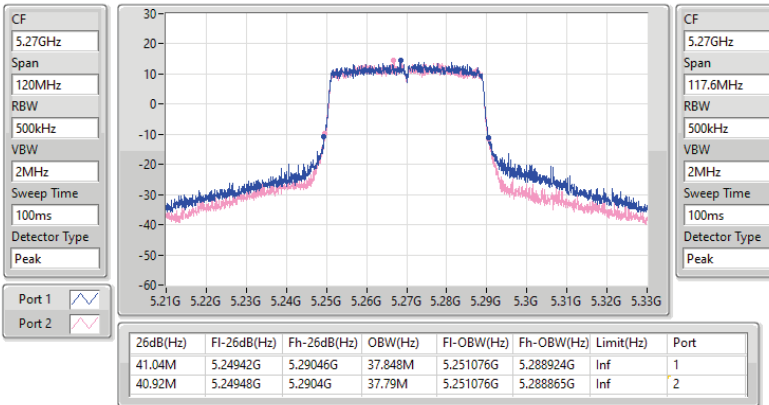
11/10/2022



5.25-5.35GHz_802.11ax HEW40_Nss1,(MCS0)_2TX 5270MHz

EBW

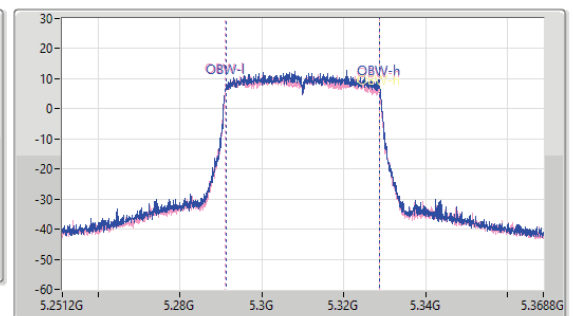
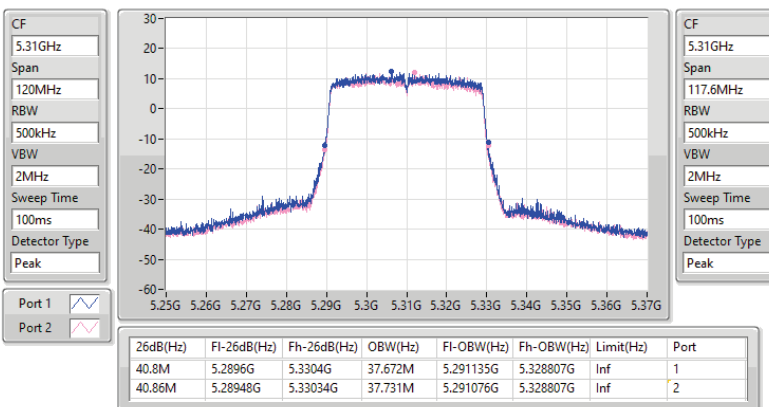
10/10/2022



5.25-5.35GHz_802.11ax HEW40_Nss1,(MCS0)_2TX 5310MHz

EBW

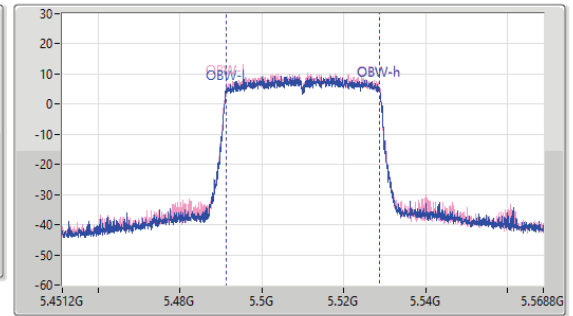
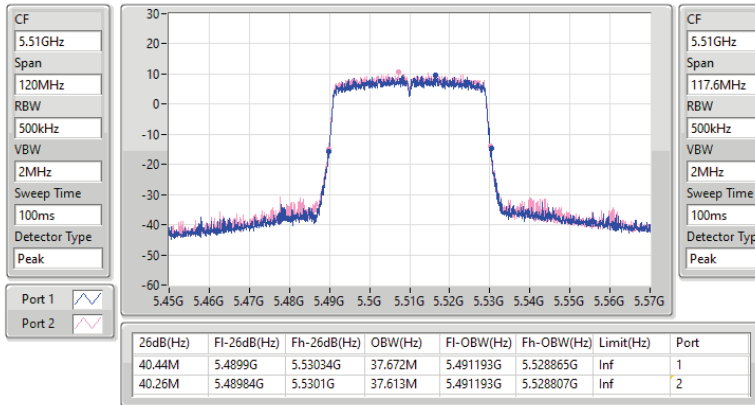
10/10/2022



5.47-5.725GHz_802.11ax HEW40_Nss1,(MCS0)_2TX 5510MHz

EBW

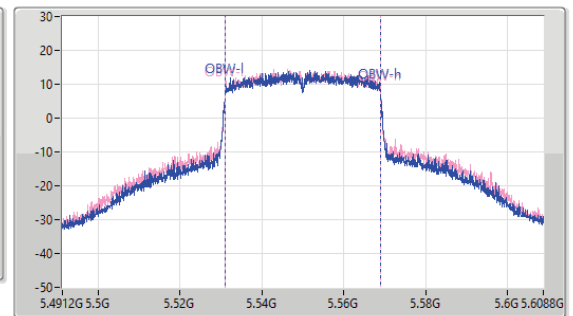
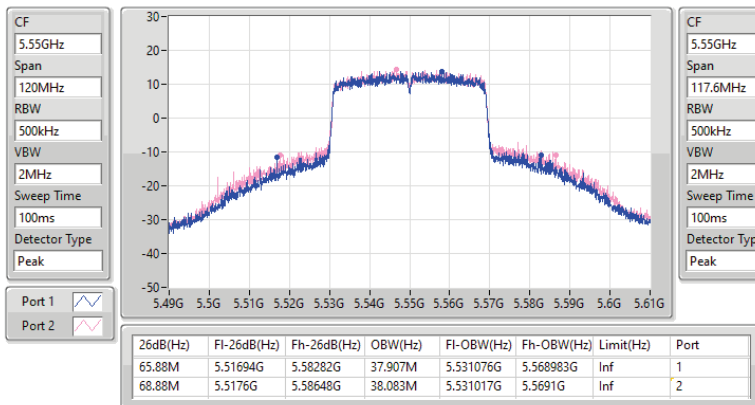
11/10/2022



5.47-5.725GHz_802.11ax HEW40_Nss1,(MCS0)_2TX 5550MHz

EBW

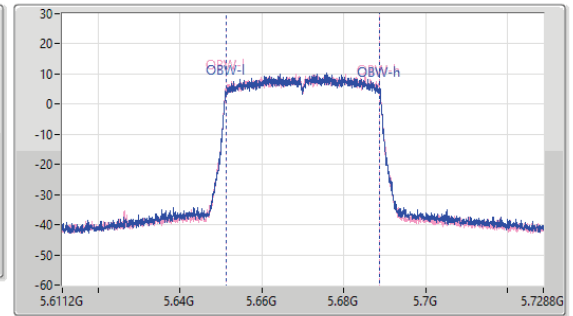
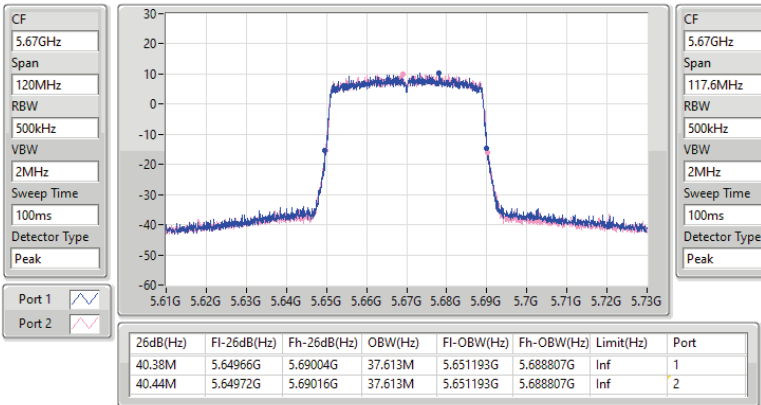
11/10/2022



5.47-5.725GHz_802.11ax HEW40_Nss1,(MCS0)_2TX 5670MHz

EBW

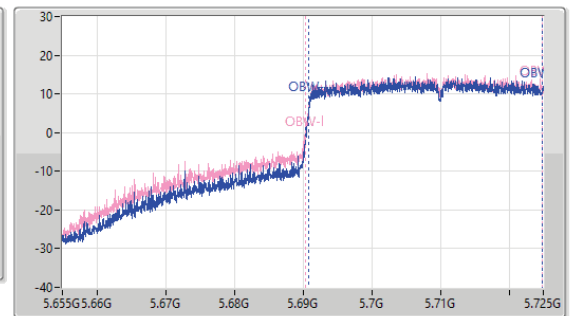
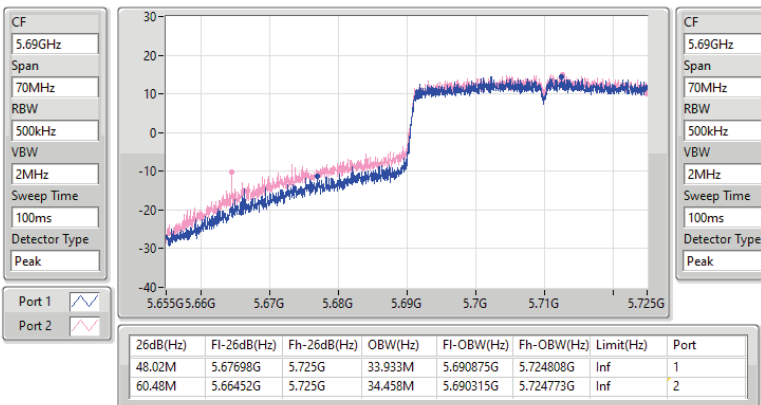
11/10/2022



5.47-5.725GHz_802.11ax HEW40_Nss1,(MCS0)_2TX 5710MHz Straddle 5.47-5.725GHz

EBW

11/10/2022



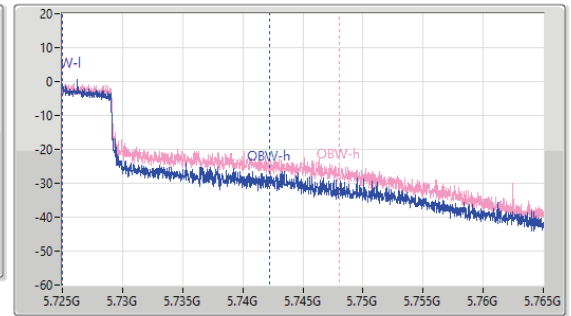
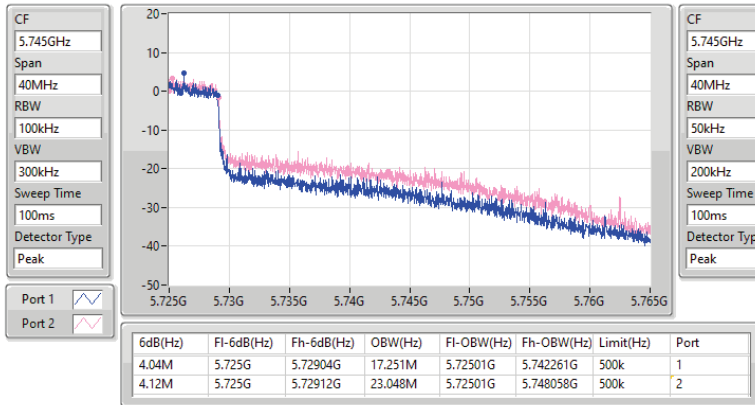


5.725-5.85GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

EBW

5710MHz Straddle 5.725-5.85GHz

11/10/2022

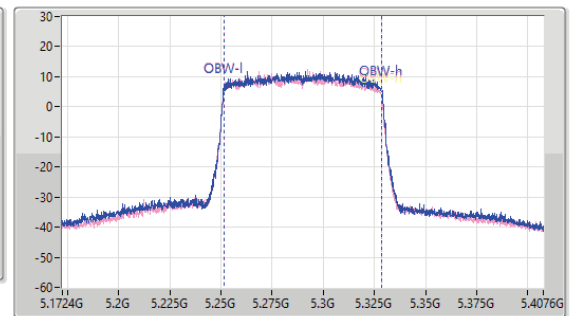
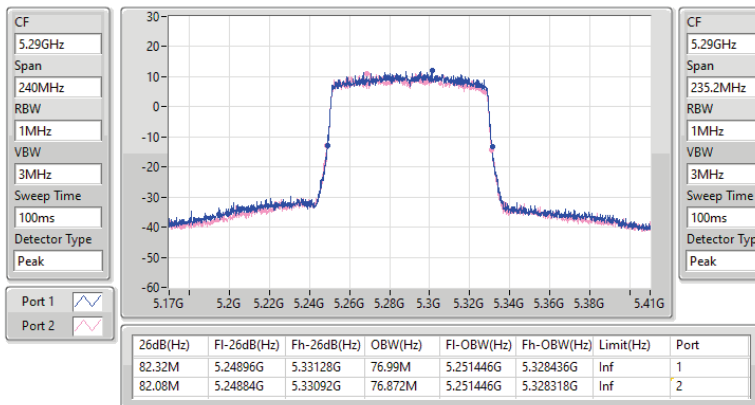


5.25-5.35GHz_802.11ax HEW80_Nss1,(MCS0)_2TX

EBW

5290MHz

10/10/2022

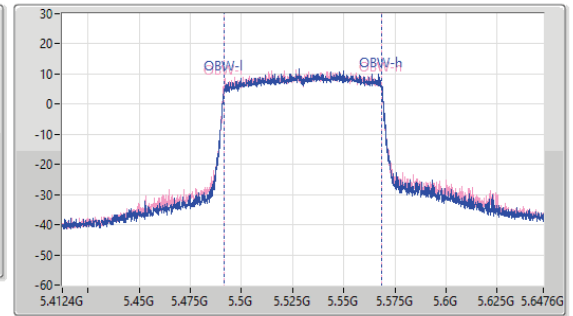
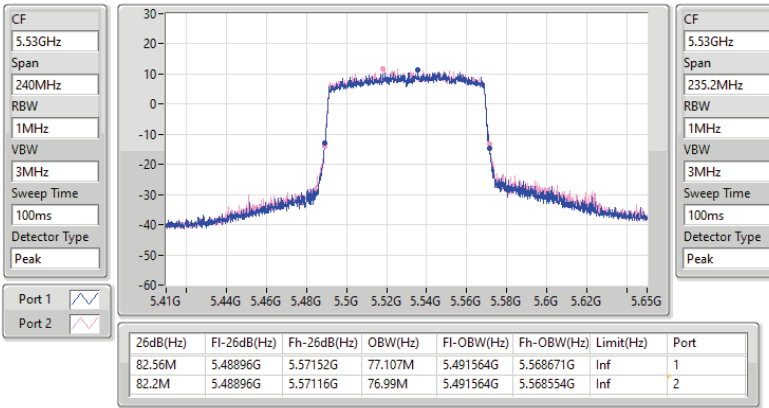


5.47-5.725GHz_802.11ax HEW80_Nss1,(MCS0)_2TX

EBW

5530MHz

11/10/2022

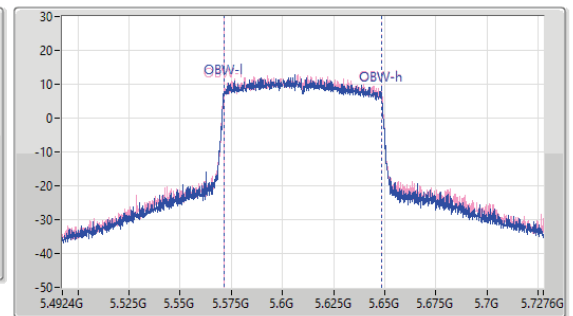
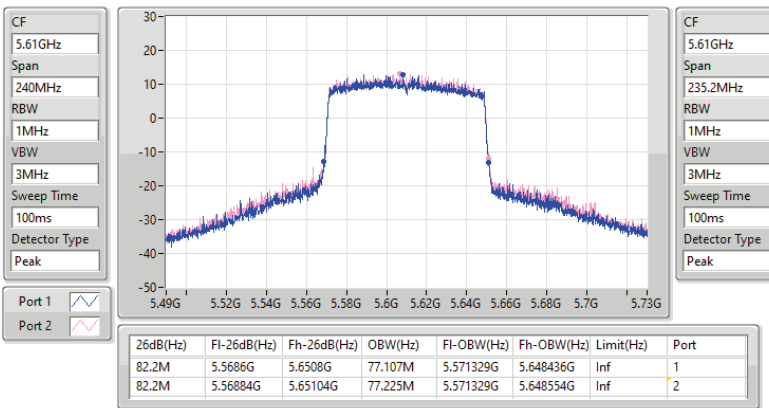


5.47-5.725GHz_802.11ax HEW80_Nss1,(MCS0)_2TX

EBW

5610MHz

11/10/2022

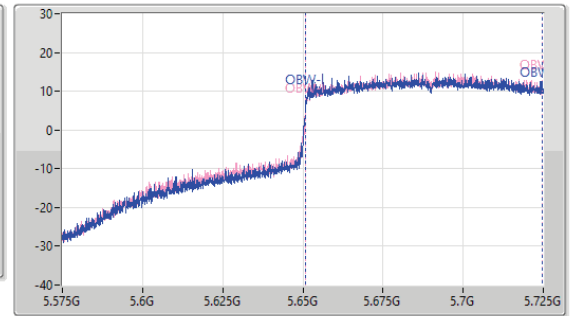
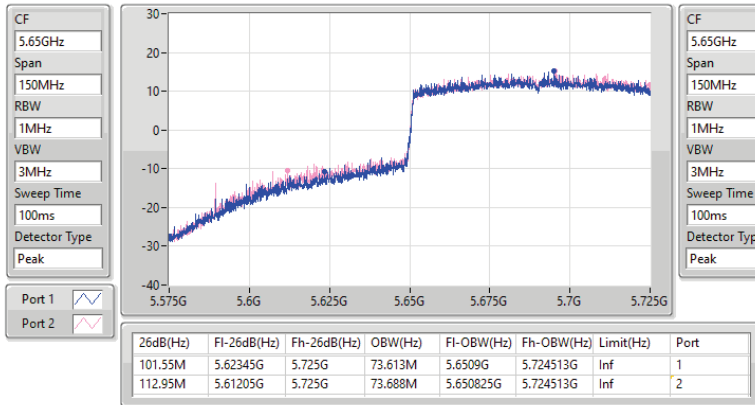


5.47-5.725GHz_802.11ax HEW80_Nss1,(MCS0)_2TX

EBW

5690MHz Straddle 5.47-5.725GHz

11/10/2022

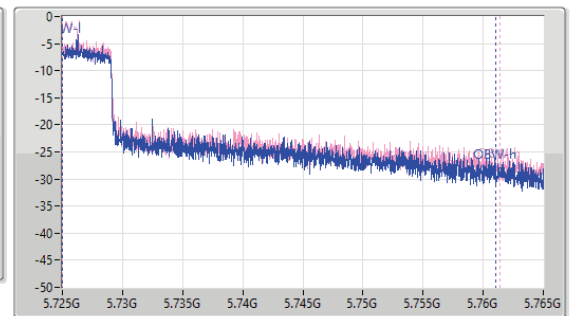
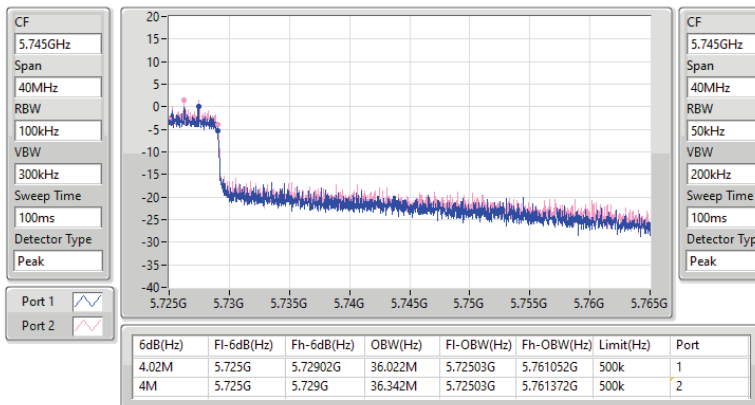


5.725-5.85GHz_802.11ax HEW80_Nss1,(MCS0)_2TX

EBW

5690MHz Straddle 5.725-5.85GHz

11/10/2022

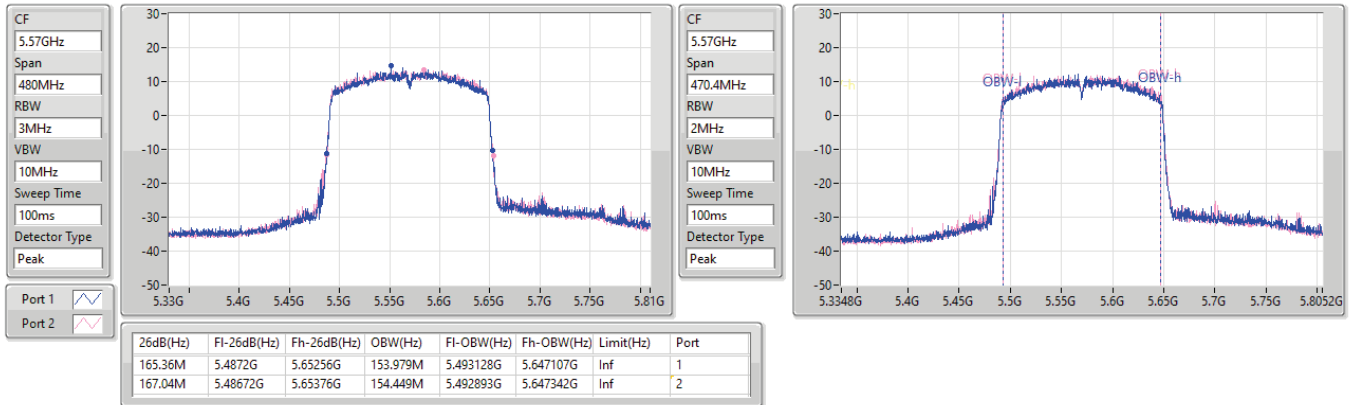




5.47-5.725GHz_802.11ax HEW160_Nss1,(MCS0)_2TX
5570MHz

EBW

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	-	-	-	-	-
802.11ac VHT160_Nss1,(MCS0)_2TX	83.6M	76.442M	76M4D1D	82.72M	76.202M
802.11ax HEW160_Nss1,(MCS0)_2TX	83.36M	77.561M	77M6D1D	82.72M	77.481M
5.25-5.35GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	20.58M	16.518M	16M5D1D	19.71M	16.504M
802.11n HT20_Nss1,(MCS0)_2TX	22.29M	17.754M	17M8D1D	21.36M	17.711M
802.11n HT40_Nss1,(MCS0)_2TX	63.72M	36.427M	36M4D1D	39.66M	35.976M
802.11ac VHT20_Nss1,(MCS0)_2TX	22.23M	17.765M	17M8D1D	21.39M	17.698M
802.11ac VHT40_Nss1,(MCS0)_2TX	60.12M	36.417M	36M4D1D	39.54M	35.977M
802.11ac VHT80_Nss1,(MCS0)_2TX	81.96M	75.461M	75M5D1D	81.72M	75.344M
802.11ac VHT160_Nss1,(MCS0)_2TX	83.04M	76.442M	76M4D1D	82.8M	76.442M
802.11ax HEW20_Nss1,(MCS0)_2TX	22.26M	19.087M	19M1D1D	21.84M	19.059M
802.11ax HEW40_Nss1,(MCS0)_2TX	53.7M	37.945M	37M9D1D	40.44M	37.656M
802.11ax HEW80_Nss1,(MCS0)_2TX	82.44M	77.225M	77M2D1D	82.32M	77.225M
802.11ax HEW160_Nss1,(MCS0)_2TX	83.92M	77.801M	77M8D1D	83.36M	77.721M
5.47-5.725GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	20.67M	16.541M	16M5D1D	15.27M	13.283M
802.11n HT20_Nss1,(MCS0)_2TX	21.87M	17.749M	17M7D1D	15.72M	13.868M
802.11n HT40_Nss1,(MCS0)_2TX	39.96M	36.026M	36M0D1D	35.315M	32.919M
802.11ac VHT20_Nss1,(MCS0)_2TX	22.32M	17.749M	17M7D1D	15.81M	13.883M
802.11ac VHT40_Nss1,(MCS0)_2TX	40.14M	36.026M	36M0D1D	35.175M	32.919M
802.11ac VHT80_Nss1,(MCS0)_2TX	82.8M	75.461M	75M5D1D	76.2M	72.189M
802.11ac VHT160_Nss1,(MCS0)_2TX	166.8M	153.274M	153MD1D	165.36M	152.804M
802.11ax HEW20_Nss1,(MCS0)_2TX	22.17M	19.079M	19M1D1D	16.11M	14.543M
802.11ax HEW40_Nss1,(MCS0)_2TX	41.22M	37.672M	37M7D1D	35.42M	33.653M
802.11ax HEW80_Nss1,(MCS0)_2TX	82.68M	77.225M	77M2D1D	76.8M	73.238M
802.11ax HEW160_Nss1,(MCS0)_2TX	166.8M	154.919M	155MD1D	166.32M	154.214M
5.725-5.85GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	3.16M	3.478M	3M48D1D	3.14M	3.478M
802.11n HT20_Nss1,(MCS0)_2TX	3.76M	4.098M	4M10D1D	3.76M	4.078M
802.11n HT40_Nss1,(MCS0)_2TX	3.14M	10.275M	10M3D1D	3.14M	6.937M
802.11ac VHT20_Nss1,(MCS0)_2TX	3.78M	4.098M	4M10D1D	3.78M	4.078M
802.11ac VHT40_Nss1,(MCS0)_2TX	3.14M	10.615M	10M6D1D	3.12M	5.897M
802.11ac VHT80_Nss1,(MCS0)_2TX	3.16M	20.53M	20M5D1D	3.14M	12.574M
802.11ax HEW20_Nss1,(MCS0)_2TX	4.54M	4.558M	4M56D1D	4.5M	4.558M
802.11ax HEW40_Nss1,(MCS0)_2TX	4.1M	5.577M	5M58D1D	4M	4.798M
802.11ax HEW80_Nss1,(MCS0)_2TX	4.1M	26.107M	26M1D1D	4.1M	21.149M

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	-	-	-	-	-	-
5260MHz	Pass	Inf	20.55M	16.514M	20.58M	16.518M
5300MHz	Pass	Inf	20.31M	16.517M	20.37M	16.513M
5320MHz	Pass	Inf	20.52M	16.504M	19.71M	16.509M
5500MHz	Pass	Inf	20.67M	16.537M	20.34M	16.513M
5580MHz	Pass	Inf	19.95M	16.516M	20.28M	16.516M
5700MHz	Pass	Inf	20.1M	16.516M	20.49M	16.541M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	15.27M	13.298M	15.405M	13.283M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	3.16M	3.478M	3.14M	3.478M
802.11n HT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5260MHz	Pass	Inf	21.36M	17.751M	22.29M	17.726M
5300MHz	Pass	Inf	21.48M	17.754M	21.6M	17.711M
5320MHz	Pass	Inf	22.05M	17.753M	21.54M	17.718M
5500MHz	Pass	Inf	21.48M	17.743M	21.57M	17.711M
5580MHz	Pass	Inf	21.87M	17.719M	21.75M	17.749M
5700MHz	Pass	Inf	21.66M	17.719M	21.57M	17.749M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	15.72M	13.868M	15.975M	13.883M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	3.76M	4.078M	3.76M	4.098M
802.11n HT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5270MHz	Pass	Inf	63.72M	36.427M	42M	36.178M
5310MHz	Pass	Inf	39.9M	35.976M	39.66M	36.013M
5510MHz	Pass	Inf	39.84M	35.986M	39.66M	35.988M
5550MHz	Pass	Inf	39.72M	35.968M	39.96M	36.026M
5670MHz	Pass	Inf	39.66M	35.909M	39.66M	35.968M
5710MHz Straddle 5.47-5.725GHz	Pass	Inf	35.315M	32.919M	36.54M	32.919M
5710MHz Straddle 5.725-5.85GHz	Pass	500k	3.14M	6.937M	3.14M	10.275M
802.11ac VHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5260MHz	Pass	Inf	22.23M	17.757M	21.54M	17.716M
5300MHz	Pass	Inf	21.9M	17.747M	21.51M	17.715M
5320MHz	Pass	Inf	21.39M	17.765M	21.96M	17.698M
5500MHz	Pass	Inf	21.69M	17.731M	21.6M	17.702M
5580MHz	Pass	Inf	21.72M	17.719M	21.51M	17.749M
5700MHz	Pass	Inf	22.32M	17.719M	21.36M	17.749M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	15.885M	13.883M	15.81M	13.898M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	3.78M	4.078M	3.78M	4.098M
802.11ac VHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5270MHz	Pass	Inf	60.12M	36.417M	51.6M	36.154M
5310MHz	Pass	Inf	39.72M	35.977M	39.54M	35.983M
5510MHz	Pass	Inf	40.02M	35.974M	39.66M	35.994M
5550MHz	Pass	Inf	39.54M	36.026M	40.14M	36.026M
5670MHz	Pass	Inf	39.54M	36.026M	39.9M	35.968M
5710MHz Straddle 5.47-5.725GHz	Pass	Inf	35.175M	32.919M	35.35M	32.919M
5710MHz Straddle 5.725-5.85GHz	Pass	500k	3.12M	5.897M	3.14M	10.615M
802.11ac VHT80_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5290MHz	Pass	Inf	81.72M	75.461M	81.96M	75.344M
5530MHz	Pass	Inf	81.36M	75.344M	82.8M	75.461M
5610MHz	Pass	Inf	81.48M	75.344M	82.2M	75.344M
5690MHz Straddle 5.47-5.725GHz	Pass	Inf	76.575M	72.189M	76.2M	72.264M
5690MHz Straddle 5.725-5.85GHz	Pass	500k	3.14M	12.574M	3.16M	20.53M
802.11ac VHT160_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	Inf	82.72M	76.202M	83.6M	76.442M
5250MHz Straddle 5.25-5.35GHz	Pass	Inf	83.04M	76.442M	82.8M	76.442M
5570MHz	Pass	Inf	165.36M	152.804M	166.8M	153.274M
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5260MHz	Pass	Inf	21.99M	19.087M	22.11M	19.078M



Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
5300MHz	Pass	Inf	21.99M	19.082M	22.26M	19.059M
5320MHz	Pass	Inf	22.05M	19.062M	21.84M	19.068M
5500MHz	Pass	Inf	21.69M	19.045M	21.78M	19.079M
5580MHz	Pass	Inf	22.17M	19.071M	22.11M	19.071M
5700MHz	Pass	Inf	21.9M	19.071M	21.87M	19.071M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	16.29M	14.543M	16.11M	14.558M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	4.5M	4.558M	4.54M	4.558M
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5270MHz	Pass	Inf	53.7M	37.945M	41.1M	37.813M
5310MHz	Pass	Inf	40.44M	37.667M	40.44M	37.656M
5510MHz	Pass	Inf	40.26M	37.646M	40.14M	37.636M
5550MHz	Pass	Inf	40.44M	37.613M	41.22M	37.672M
5670MHz	Pass	Inf	40.26M	37.613M	40.32M	37.613M
5710MHz Straddle 5.47-5.725GHz	Pass	Inf	35.42M	33.653M	36.19M	33.723M
5710MHz Straddle 5.725-5.85GHz	Pass	500k	4.1M	4.798M	4M	5.577M
802.11ax HEW80_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5290MHz	Pass	Inf	82.32M	77.225M	82.44M	77.225M
5530MHz	Pass	Inf	82.56M	77.107M	82.68M	77.225M
5610MHz	Pass	Inf	81.96M	77.107M	81.96M	77.107M
5690MHz Straddle 5.47-5.725GHz	Pass	Inf	76.8M	73.238M	77.25M	73.238M
5690MHz Straddle 5.725-5.85GHz	Pass	500k	4.1M	21.149M	4.1M	26.107M
802.11ax HEW160_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	Inf	82.72M	77.561M	83.36M	77.481M
5250MHz Straddle 5.25-5.35GHz	Pass	Inf	83.92M	77.801M	83.36M	77.721M
5570MHz	Pass	Inf	166.32M	154.214M	166.8M	154.919M

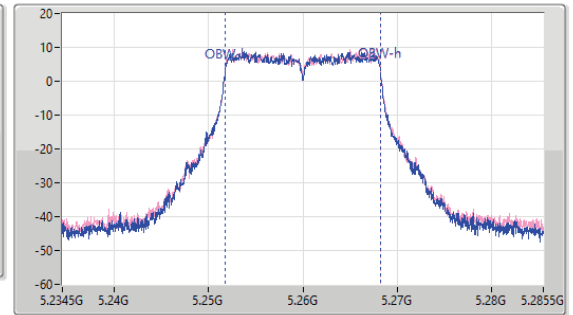
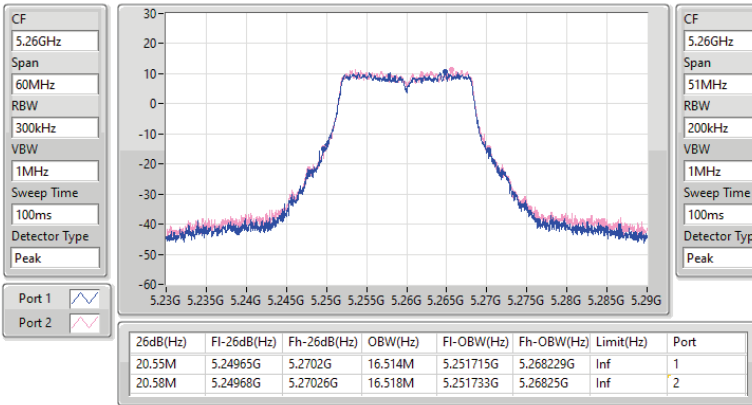
Port X-N dB = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band
Port X-OBW = Port X 99% occupied bandwidth

5.25-5.35GHz_802.11a_Nss1,(6Mbps)_2TX

EBW

5260MHz

14/04/2023

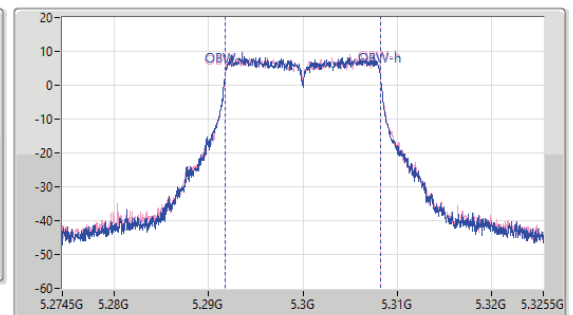
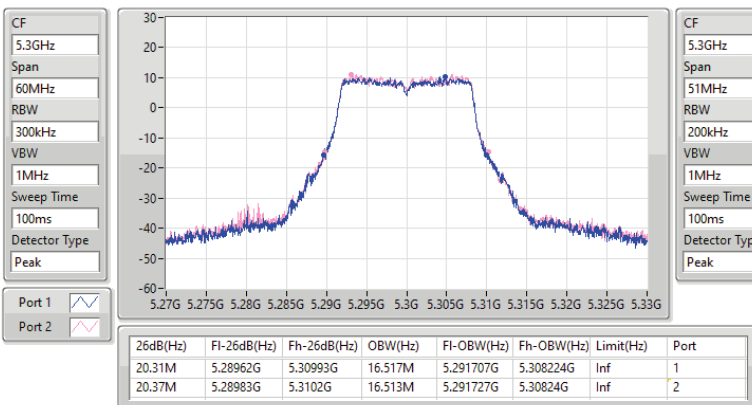


5.25-5.35GHz_802.11a_Nss1,(6Mbps)_2TX

EBW

5300MHz

14/04/2023

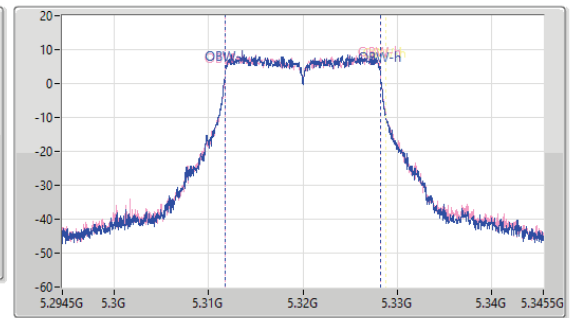
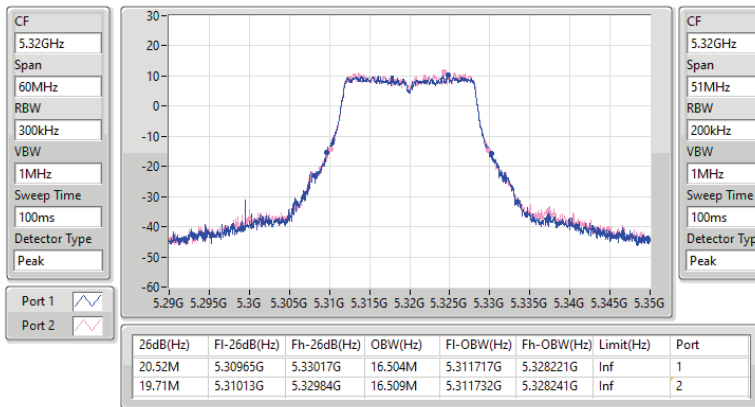


5.25-5.35GHz_802.11a_Nss1,(6Mbps)_2TX

EBW

5320MHz

14/04/2023

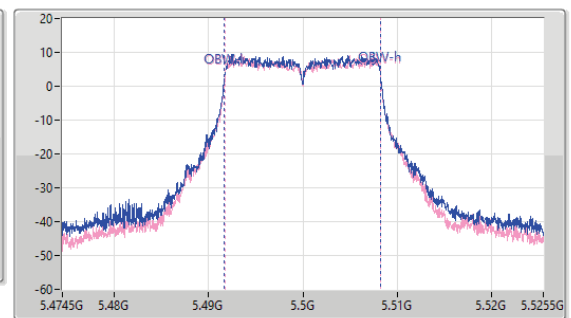
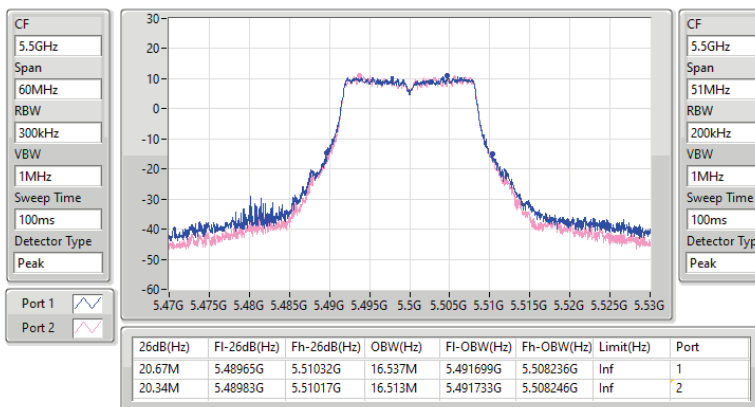


5.47-5.725GHz_802.11a_Nss1,(6Mbps)_2TX

EBW

5500MHz

14/04/2023

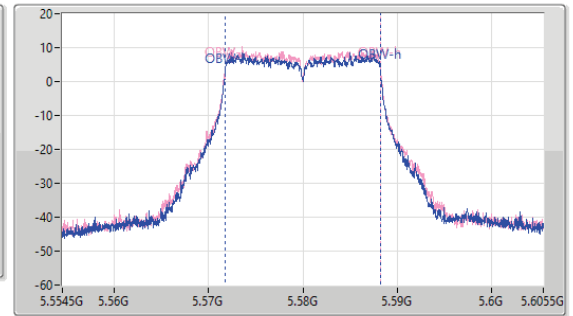
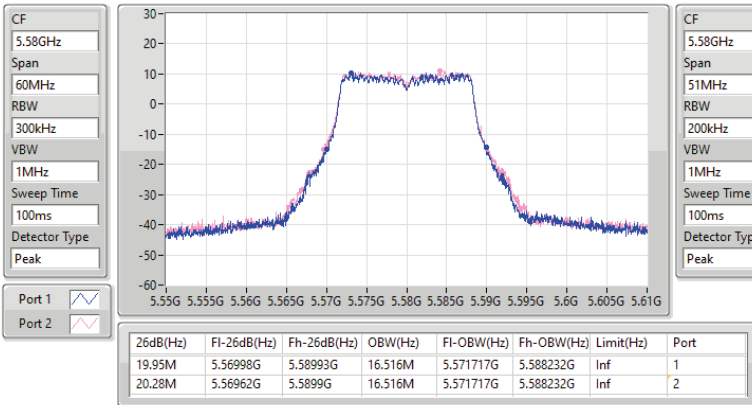


5.47-5.725GHz_802.11a_Nss1,(6Mbps)_2TX

EBW

5580MHz

11/10/2022

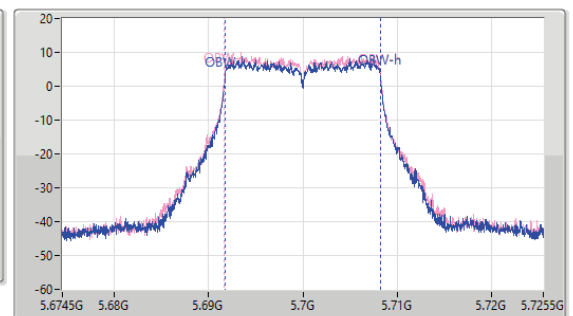
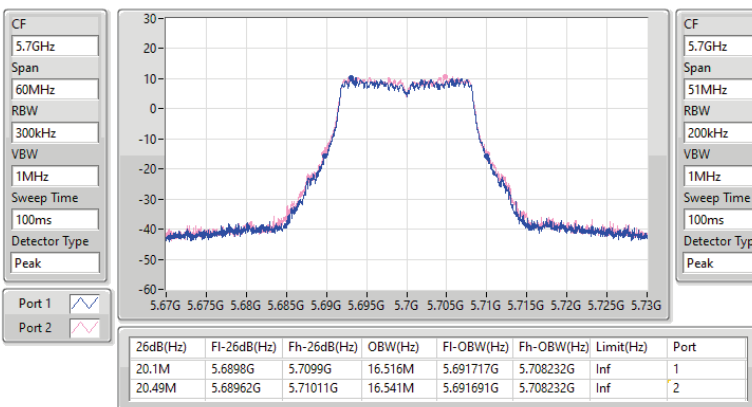


5.47-5.725GHz_802.11a_Nss1,(6Mbps)_2TX

EBW

5700MHz

11/10/2022

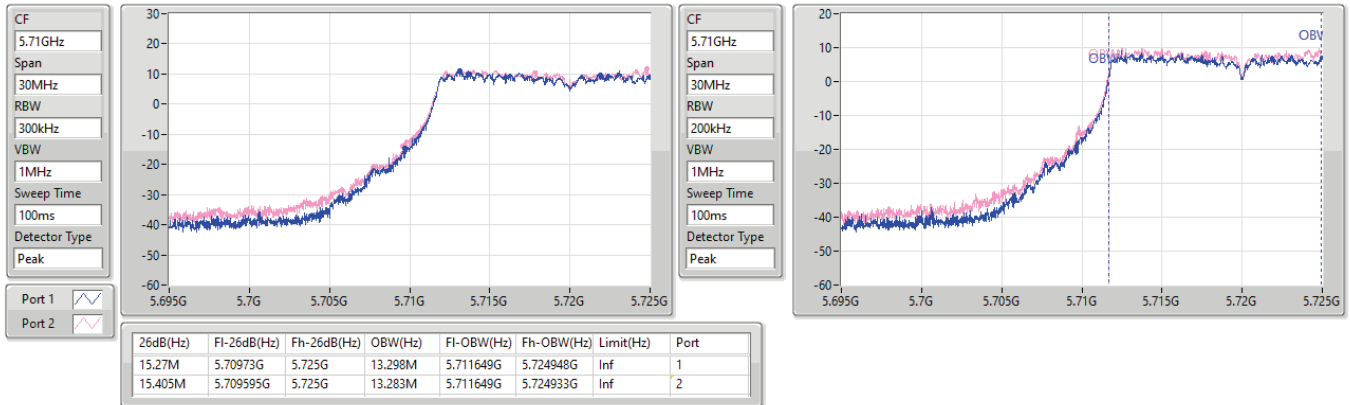


5.47-5.725GHz_802.11a_Nss1,(6Mbps)_2TX

EBW

5720MHz Straddle 5.47-5.725GHz

11/10/2022

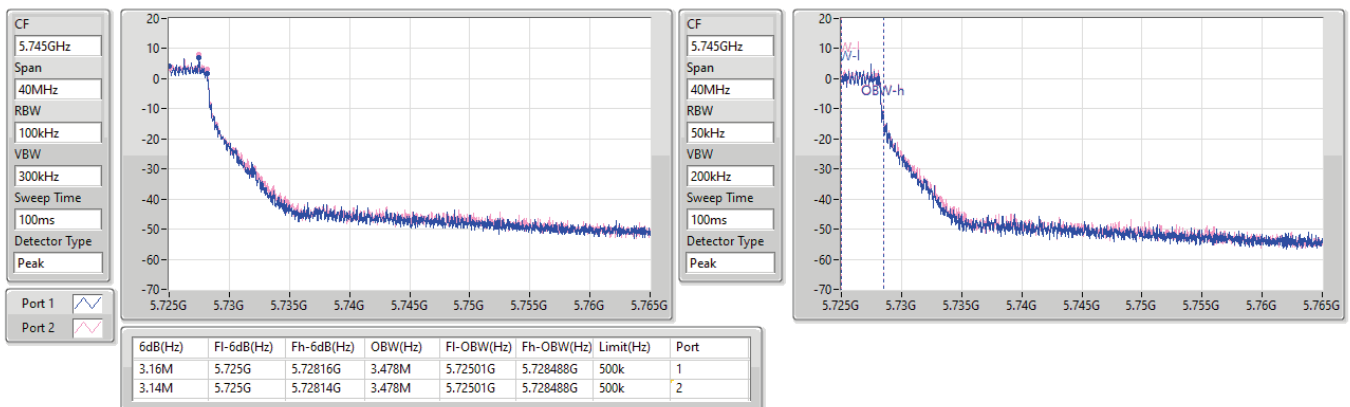


5.725-5.85GHz_802.11a_Nss1,(6Mbps)_2TX

EBW

5720MHz Straddle 5.725-5.85GHz

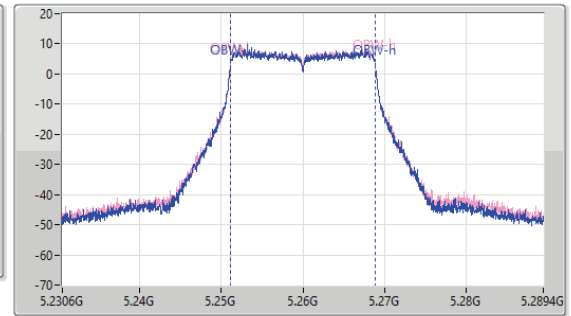
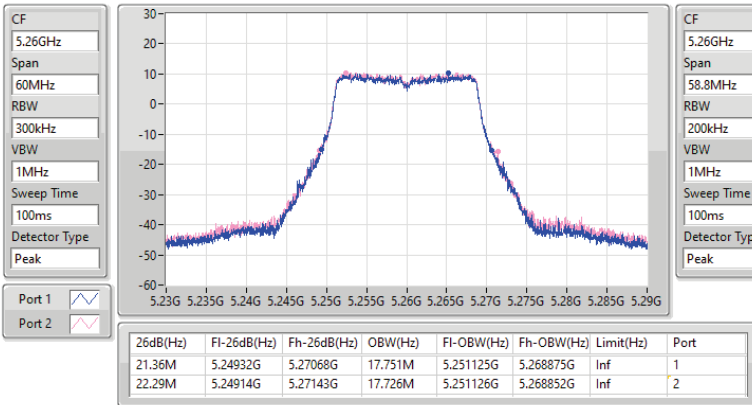
11/10/2022



5.25-5.35GHz_802.11n HT20_Nss1,(MCS0)_2TX 5260MHz

EBW

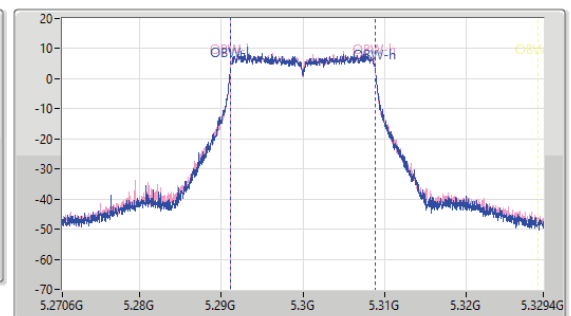
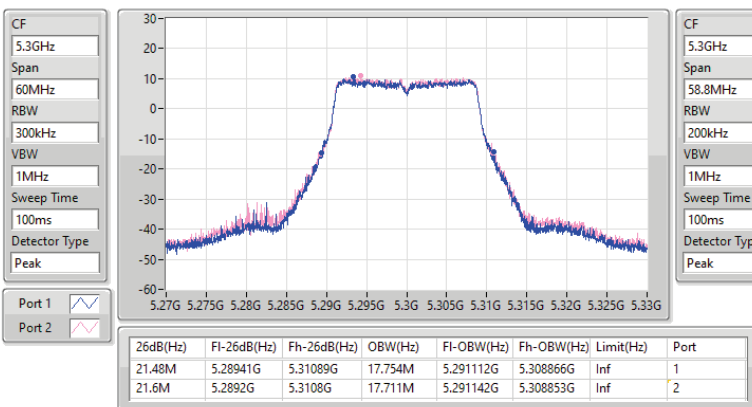
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5.25-5.35GHz_802.11n HT20_Nss1,(MCS0)_2TX 5300MHz

EBW

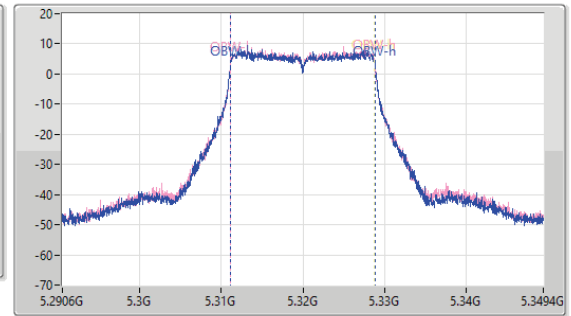
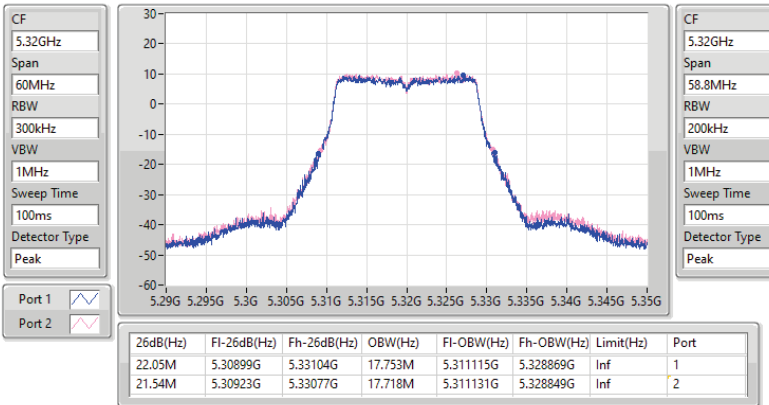
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5.25-5.35GHz_802.11n HT20_Nss1,(MCS0)_2TX 5320MHz

EBW

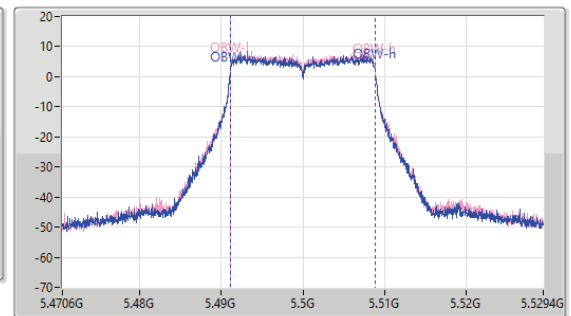
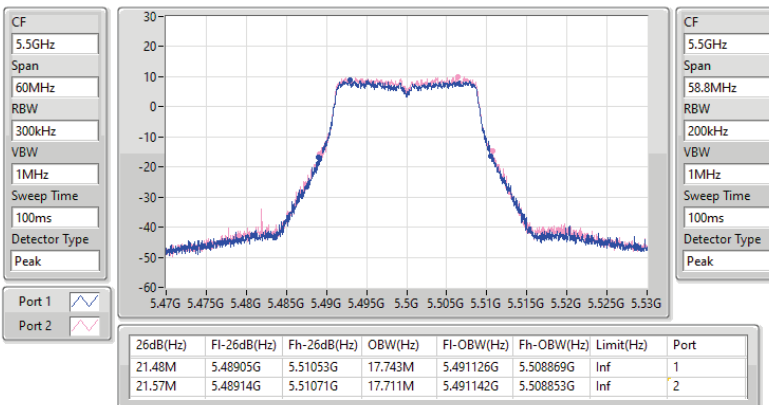
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5.47-5.725GHz_802.11n HT20_Nss1,(MCS0)_2TX 5500MHz

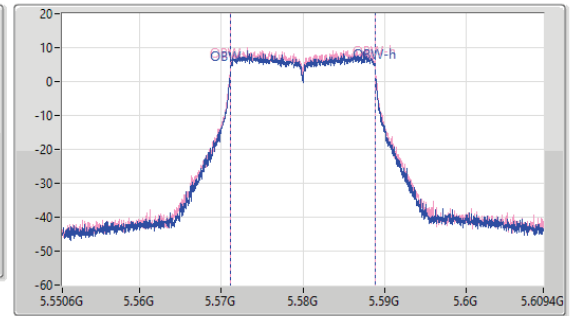
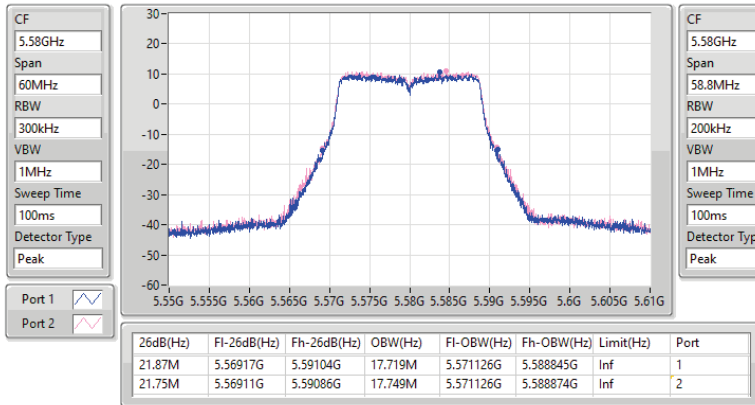
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14/04/2023

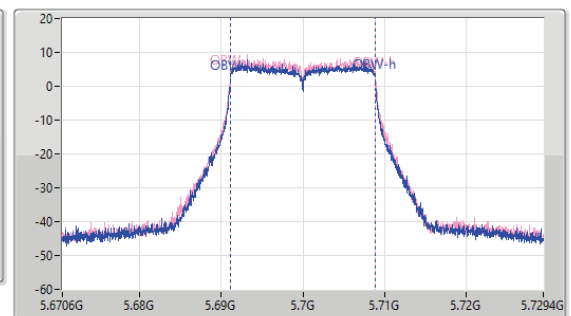
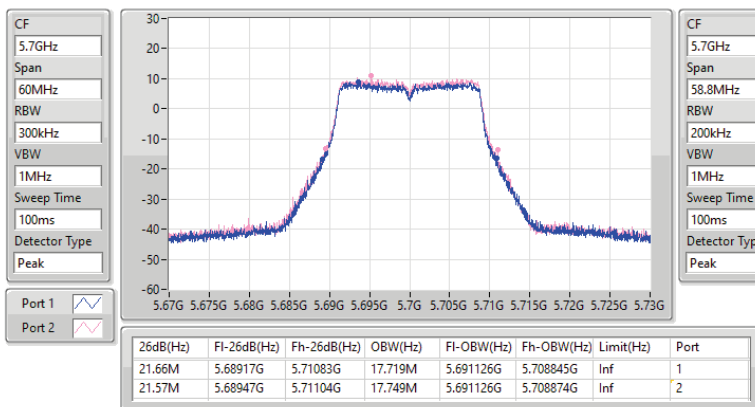


5.47-5.725GHz_802.11n HT20_Nss1,(MCS0)_2TX
5580MHz
EBW

11/10/2022


5.47-5.725GHz_802.11n HT20_Nss1,(MCS0)_2TX
5700MHz
EBW

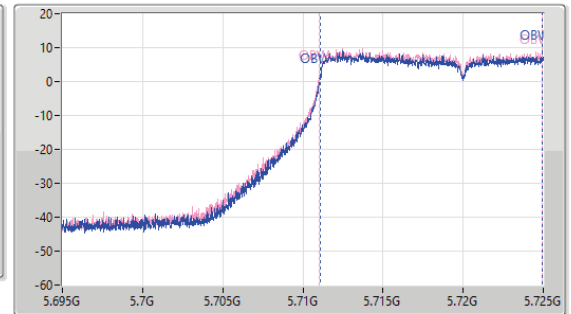
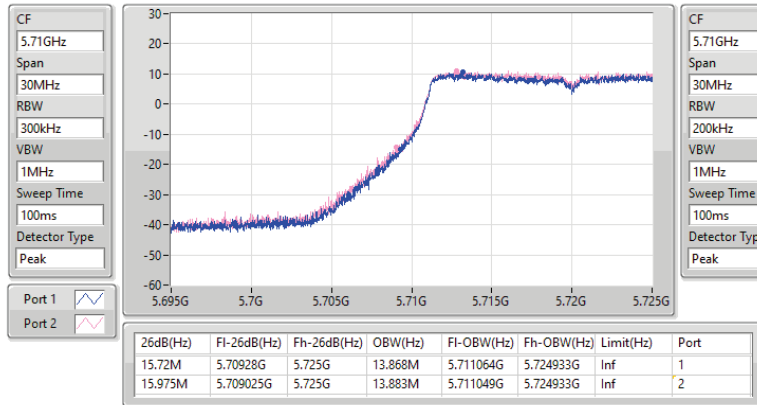
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5.47-5.725GHz_802.11n HT20_Nss1,(MCS0)_2TX 5720MHz Straddle 5.47-5.725GHz

EBW

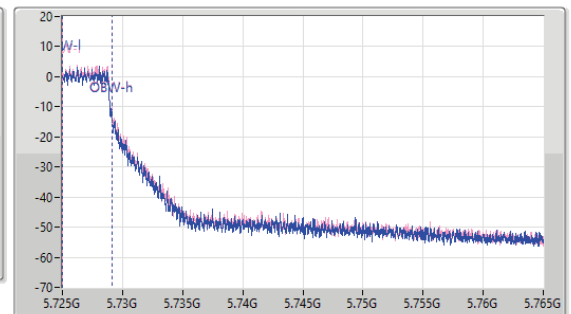
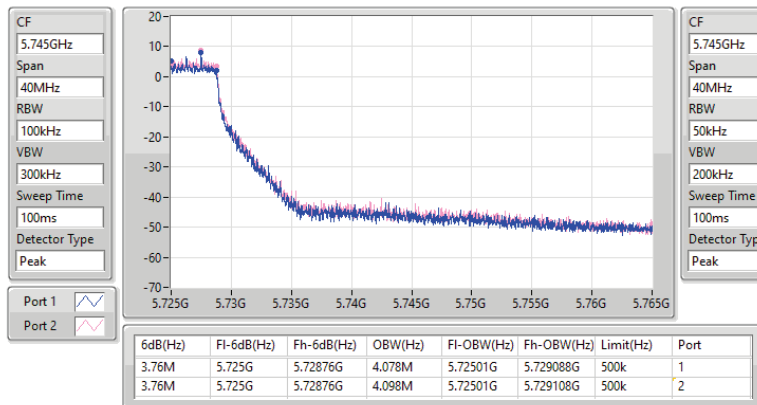
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5.725-5.85GHz_802.11n HT20_Nss1,(MCS0)_2TX 5720MHz Straddle 5.725-5.85GHz

EBW

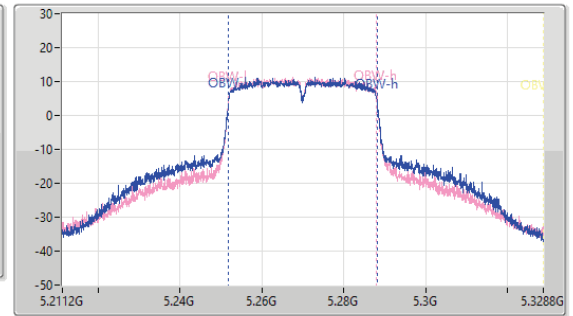
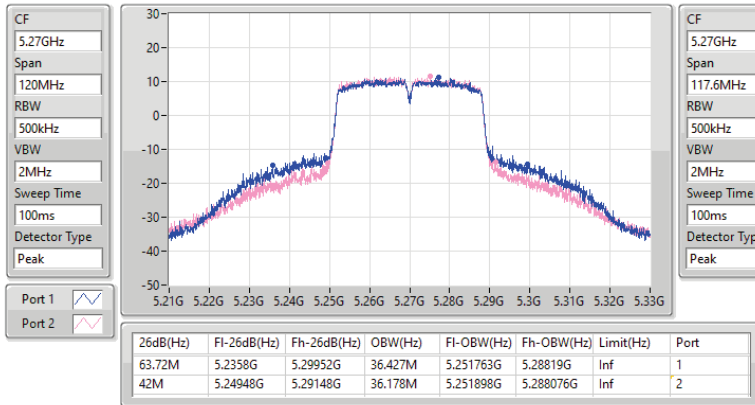
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5.25-5.35GHz_802.11n HT40_Nss1,(MCS0)_2TX 5270MHz

EBW

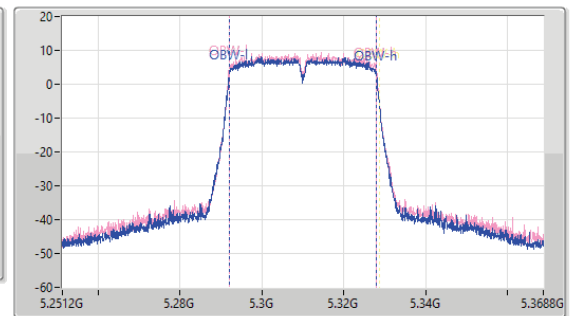
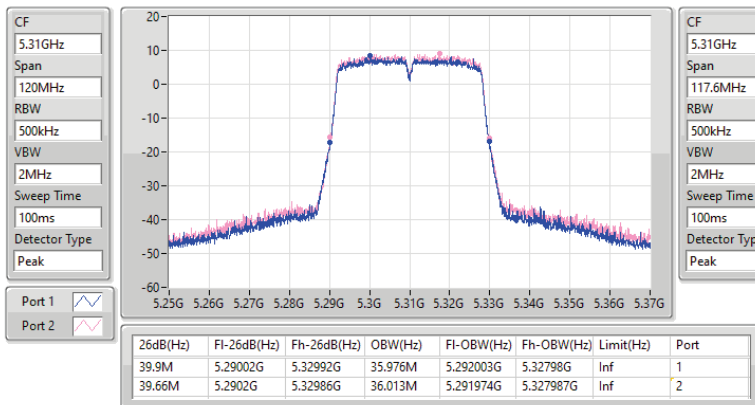
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5.25-5.35GHz_802.11n HT40_Nss1,(MCS0)_2TX 5310MHz

EBW

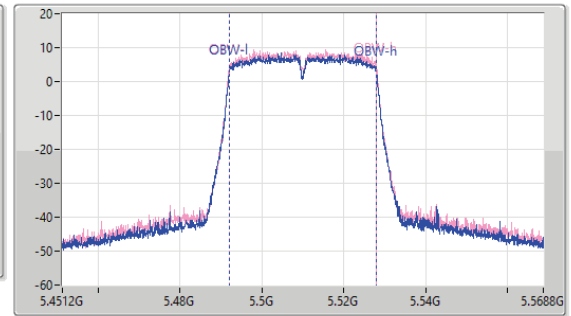
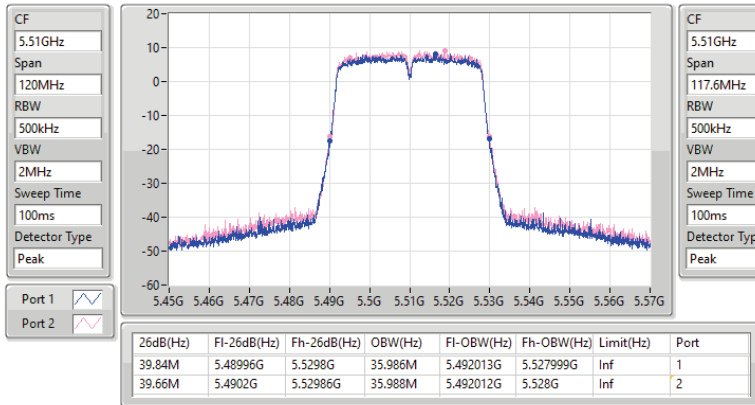
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5.47-5.725GHz_802.11n HT40_Nss1,(MCS0)_2TX
5510MHz

EBW

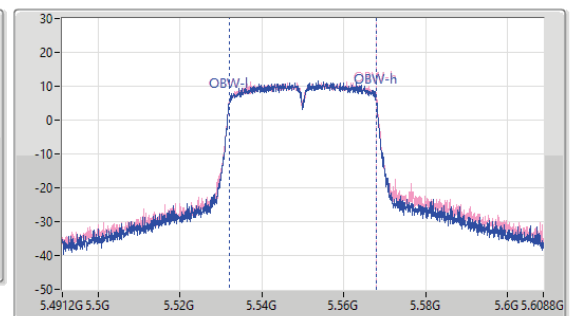
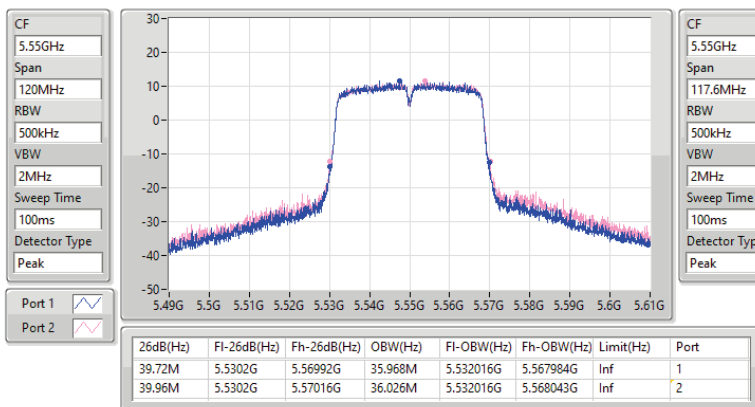
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5.47-5.725GHz_802.11n HT40_Nss1,(MCS0)_2TX
5550MHz

EBW

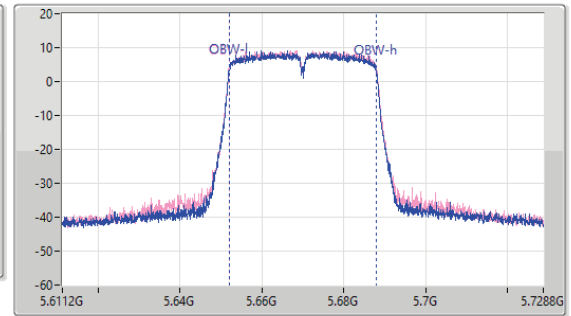
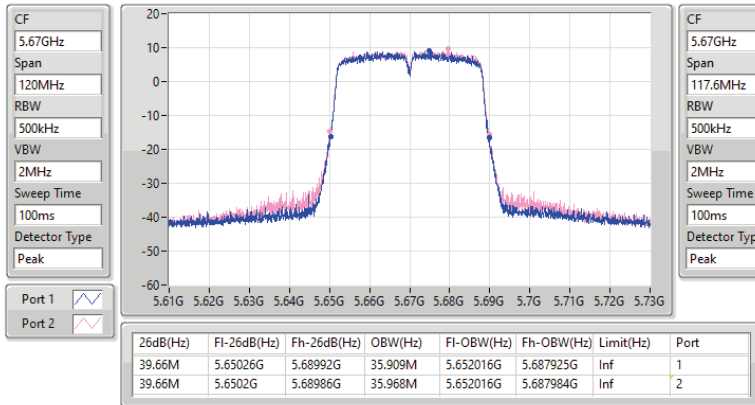
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5.47-5.725GHz_802.11n HT40_Nss1,(MCS0)_2TX 5670MHz

EBW

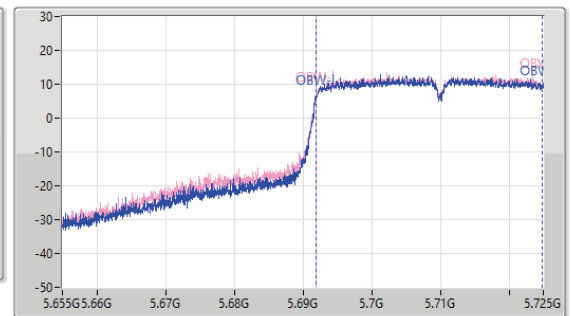
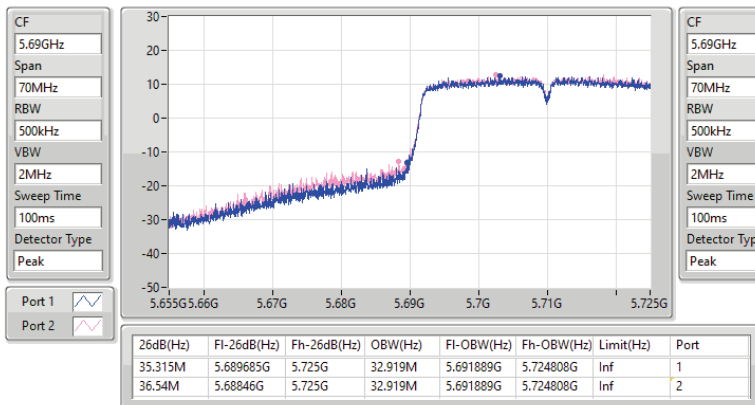
11/10/2022



5.47-5.725GHz_802.11n HT40_Nss1,(MCS0)_2TX 5710MHz Straddle 5.47-5.725GHz

EBW

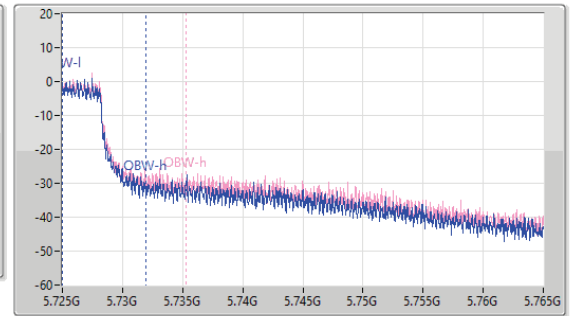
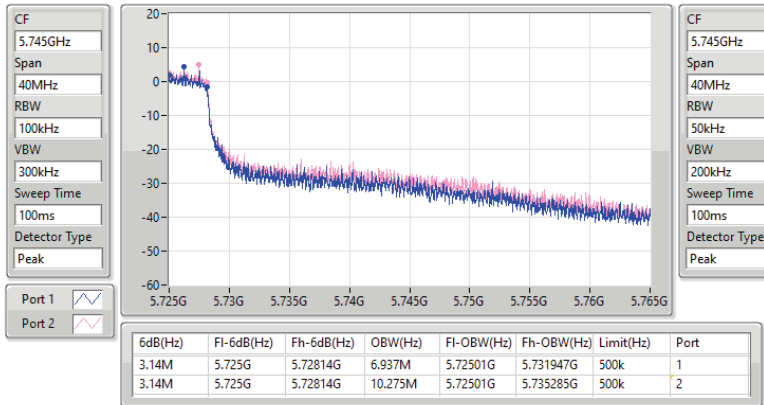
11/10/2022



5.725-5.85GHz_802.11n HT40_Nss1,(MCS0)_2TX 5710MHz Straddle 5.725-5.85GHz

EBW

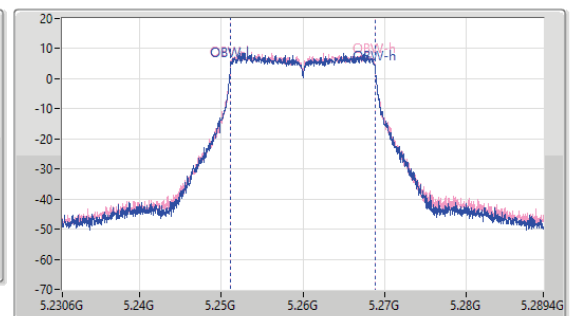
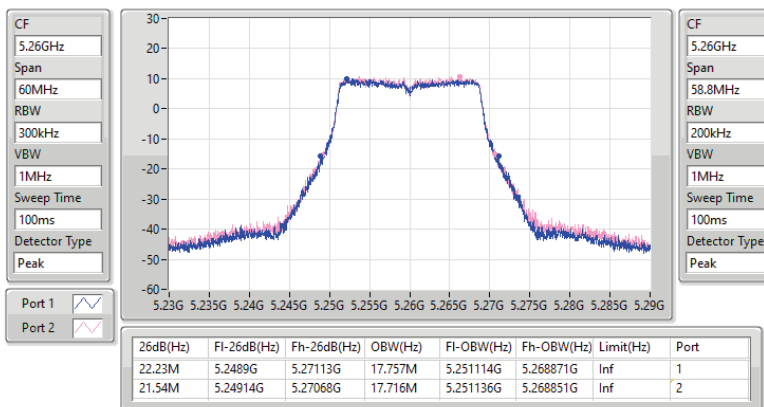
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5.25-5.35GHz_802.11ac VHT20_Nss1,(MCS0)_2TX 5260MHz

EBW

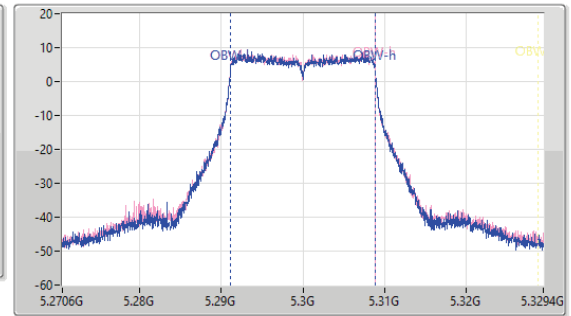
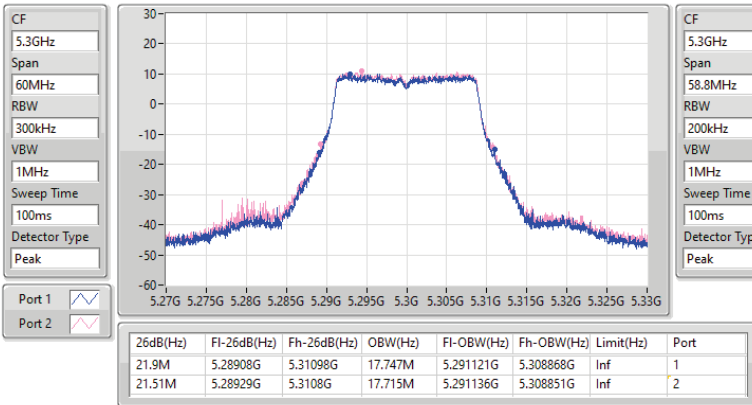
14/04/2023



5.25-5.35GHz_802.11ac VHT20_Nss1,(MCS0)_2TX 5300MHz

EBW

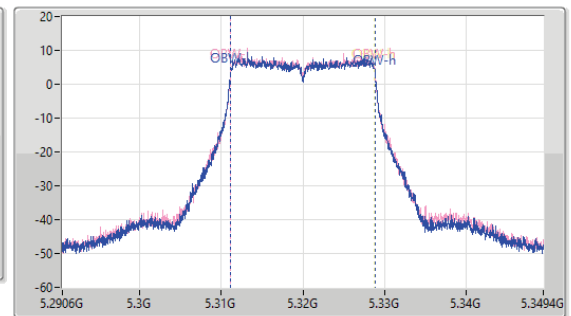
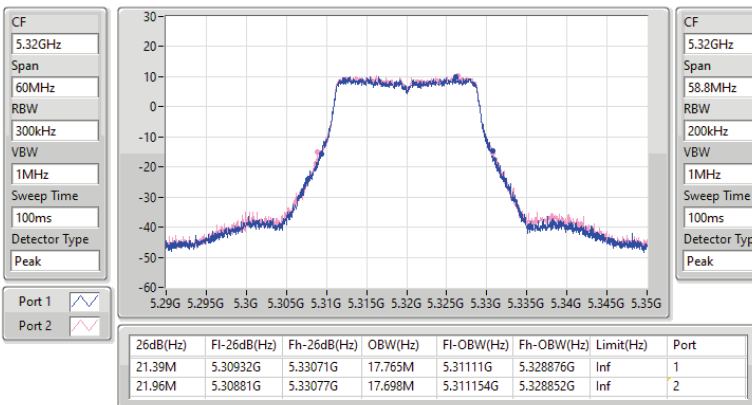
14/04/2023



5.25-5.35GHz_802.11ac VHT20_Nss1,(MCS0)_2TX 5320MHz

EBW

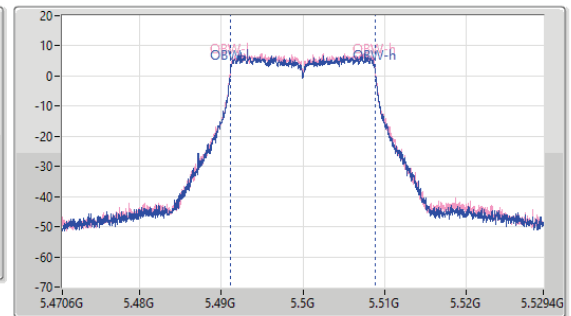
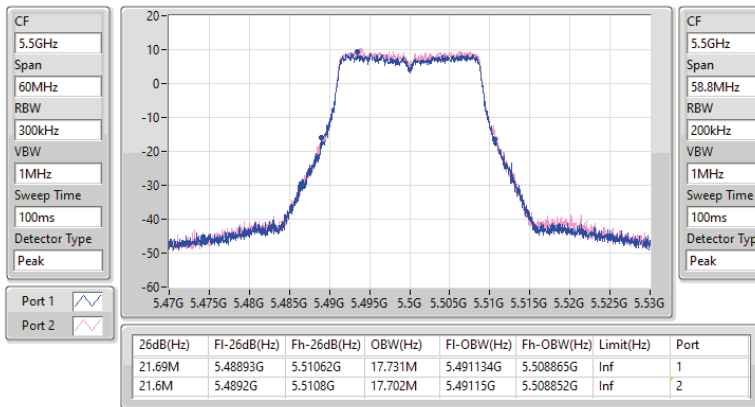
14/04/2023



5.47-5.725GHz_802.11ac VHT20_Nss1,(MCS0)_2TX 5500MHz

EBW

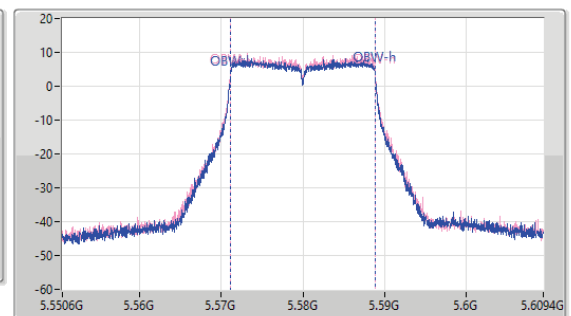
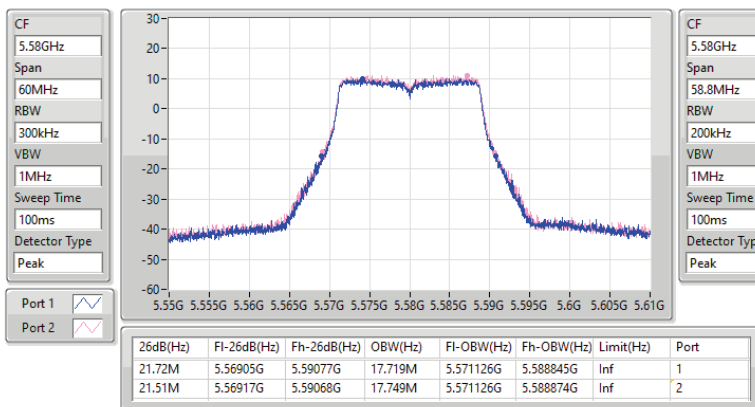
14/04/2023



5.47-5.725GHz_802.11ac VHT20_Nss1,(MCS0)_2TX 5580MHz

EBW

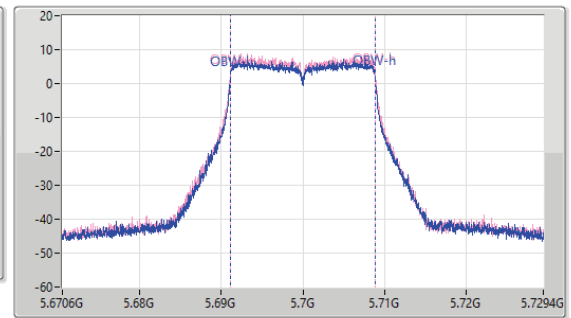
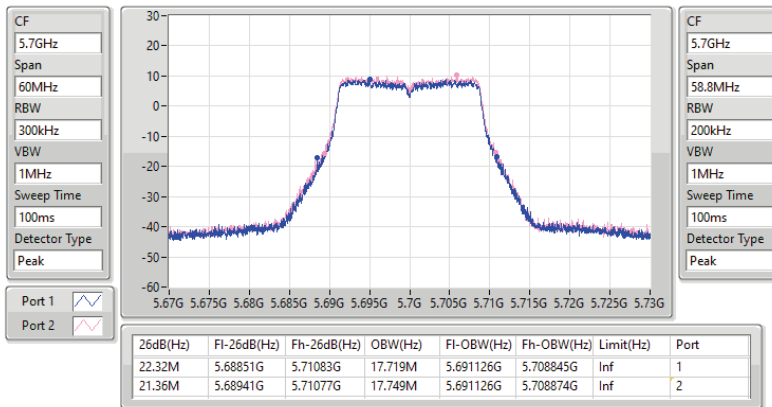
11/10/2022



5.47-5.725GHz_802.11ac VHT20_Nss1,(MCS0)_2TX 5700MHz

EBW

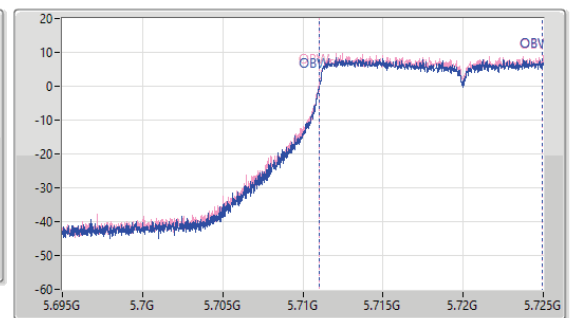
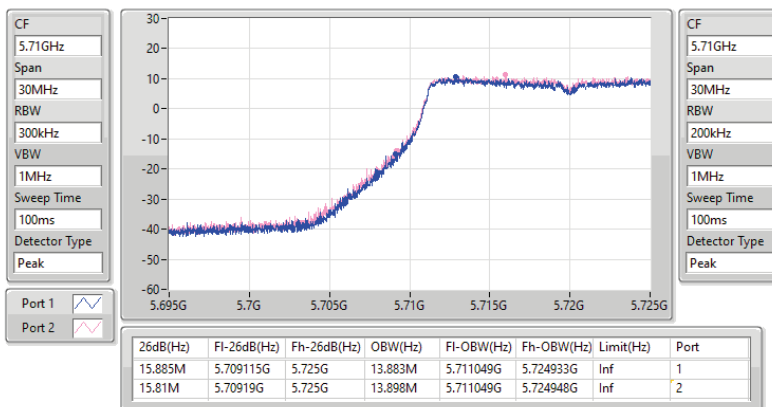
11/10/2022



5.47-5.725GHz_802.11ac VHT20_Nss1,(MCS0)_2TX 5720MHz Straddle 5.47-5.725GHz

EBW

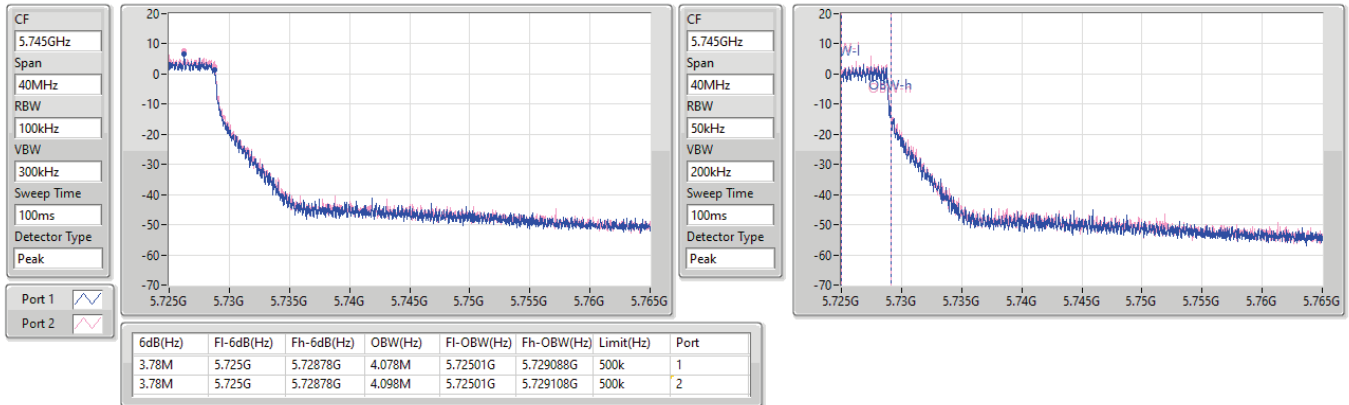
11/10/2022



5.725-5.85GHz_802.11ac VHT20_Nss1,(MCS0)_2TX 5720MHz Straddle 5.725-5.85GHz

EBW

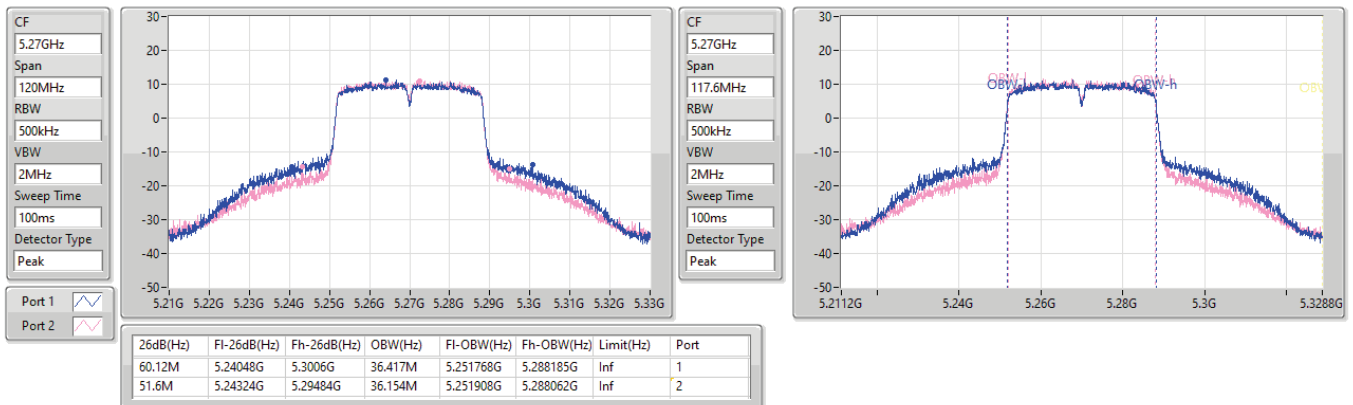
11/10/2022



5.25-5.35GHz_802.11ac VHT40_Nss1,(MCS0)_2TX 5270MHz

EBW

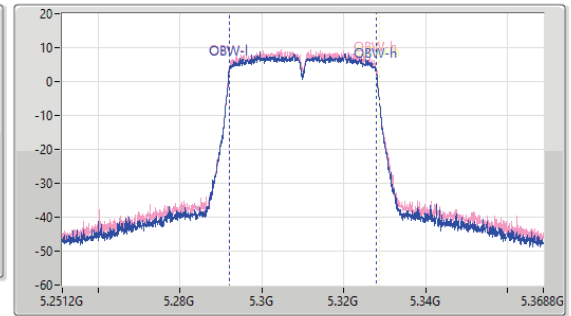
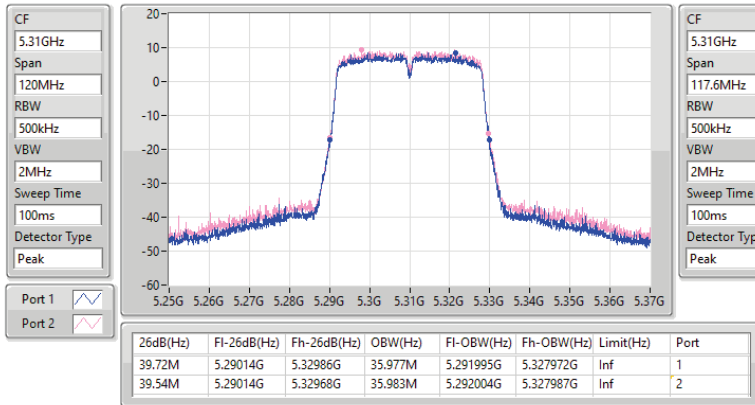
14/04/2023



5.25-5.35GHz_802.11ac VHT40_Nss1,(MCS0)_2TX 5310MHz

EBW

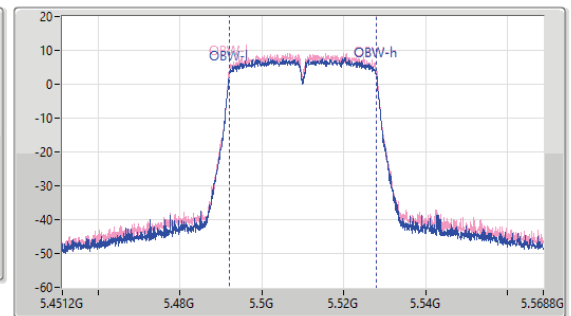
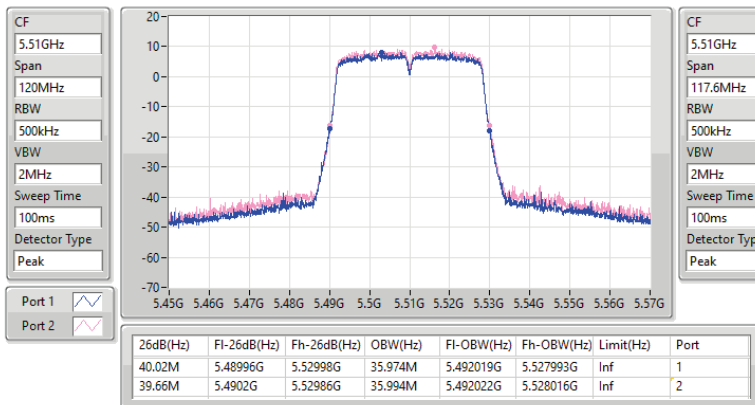
14/04/2023



5.47-5.725GHz_802.11ac VHT40_Nss1,(MCS0)_2TX 5510MHz

EBW

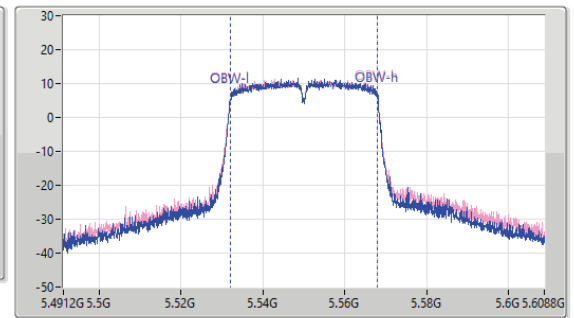
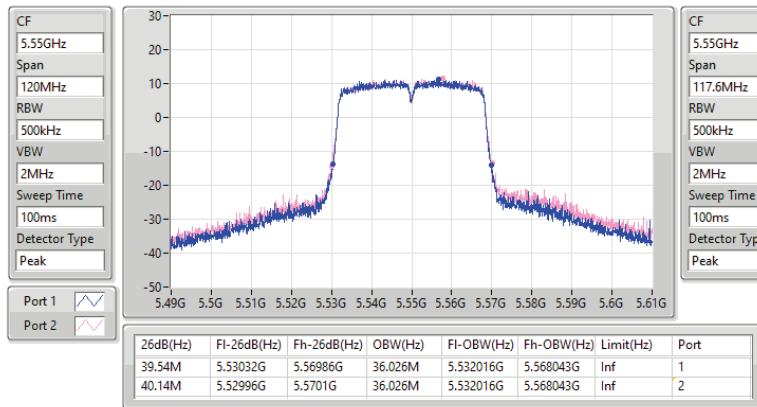
14/04/2023



5.47-5.725GHz_802.11ac VHT40_Nss1,(MCS0)_2TX 5550MHz

EBW

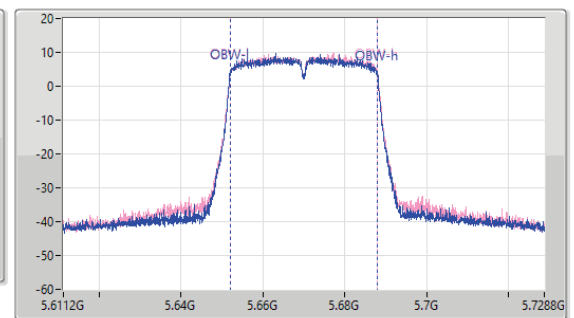
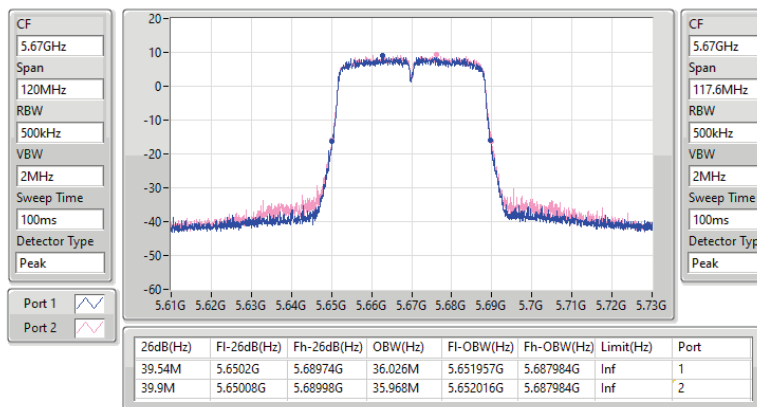
11/10/2022



5.47-5.725GHz_802.11ac VHT40_Nss1,(MCS0)_2TX 5670MHz

EBW

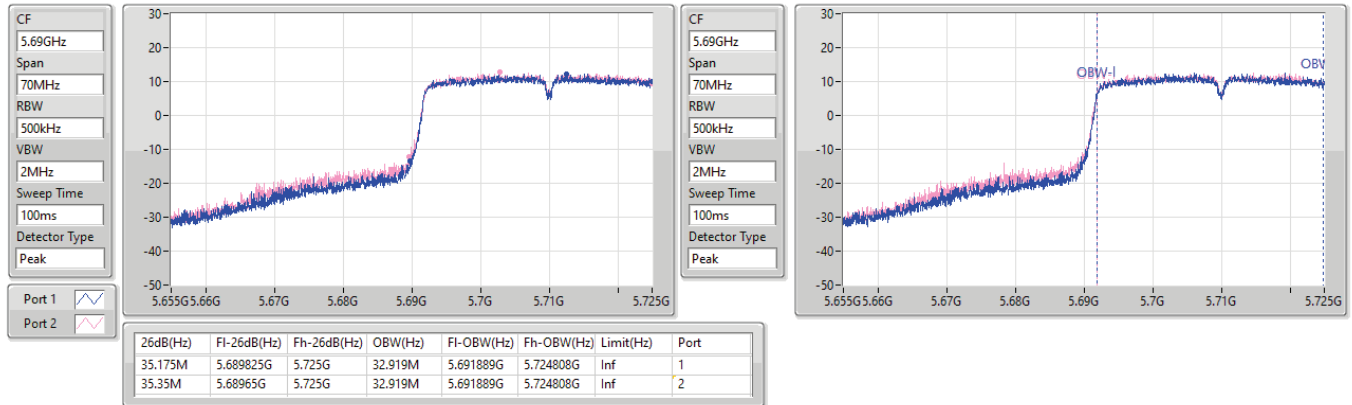
11/10/2022



5.47-5.725GHz_802.11ac VHT40_Nss1,(MCS0)_2TX 5710MHz Straddle 5.47-5.725GHz

EBW

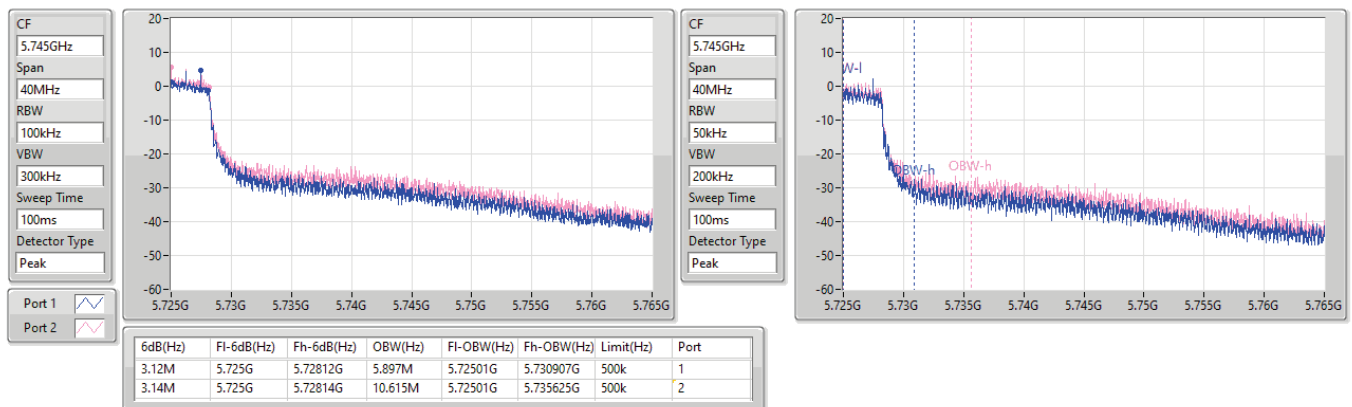
11/10/2022



5.725-5.85GHz_802.11ac VHT40_Nss1,(MCS0)_2TX 5710MHz Straddle 5.725-5.85GHz

EBW

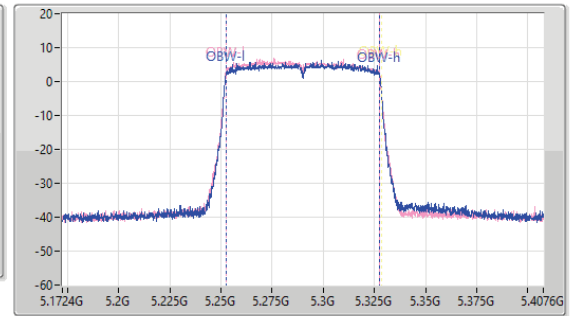
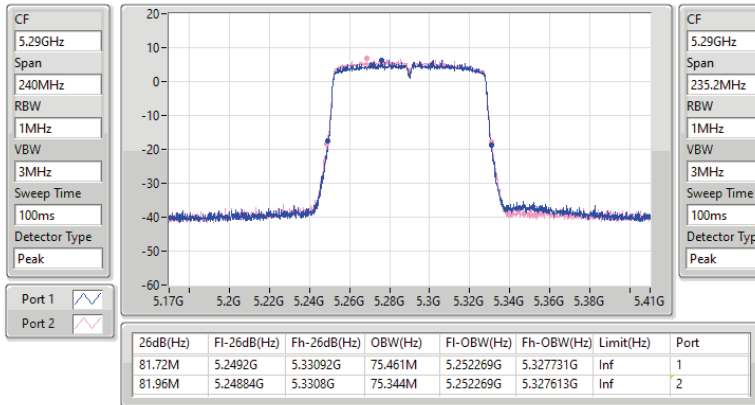
11/10/2022



5.25-5.35GHz_802.11ac VHT80_Nss1,(MCS0)_2TX 5290MHz

EBW

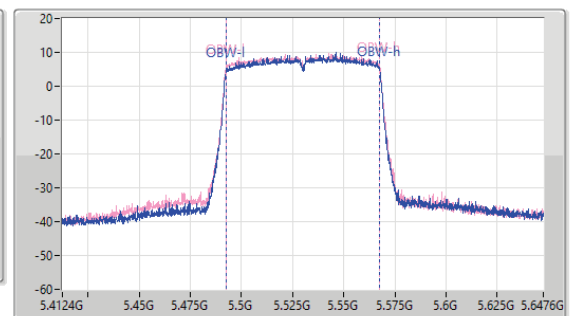
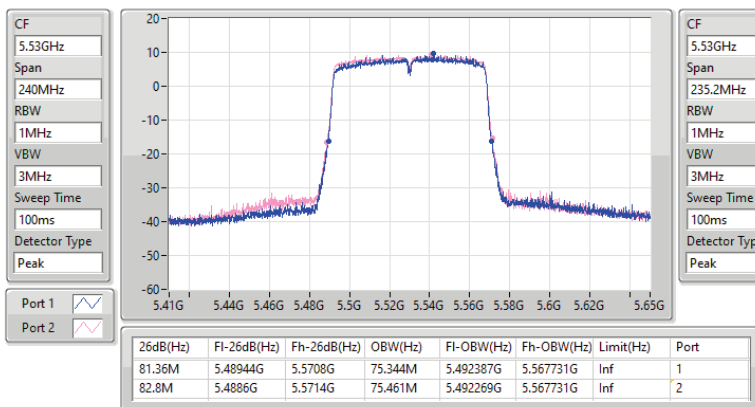
11/10/2022



5.47-5.725GHz_802.11ac VHT80_Nss1,(MCS0)_2TX 5530MHz

EBW

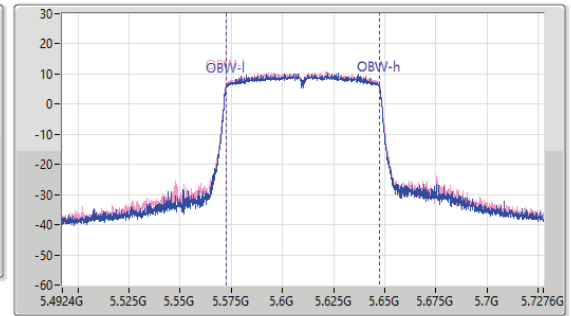
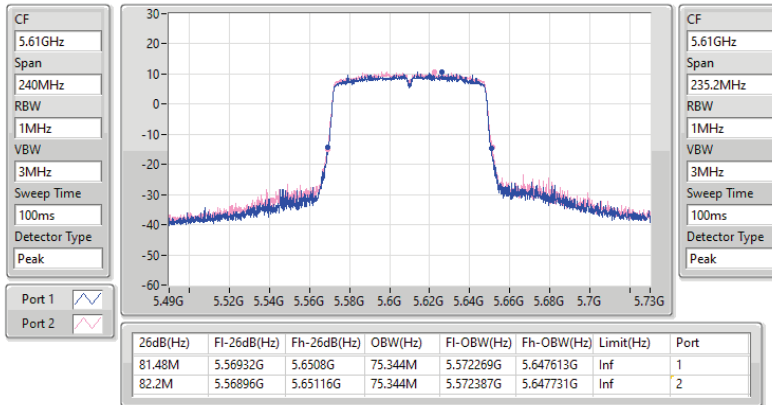
11/10/2022



5.47-5.725GHz_802.11ac VHT80_Nss1,(MCS0)_2TX 5610MHz

EBW

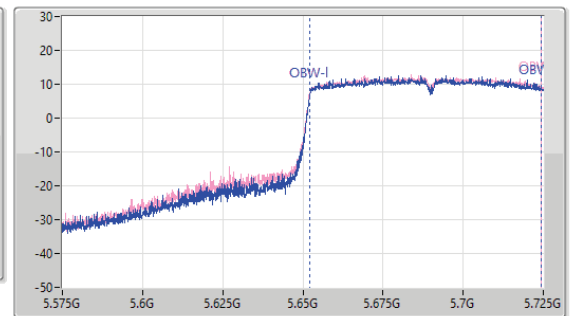
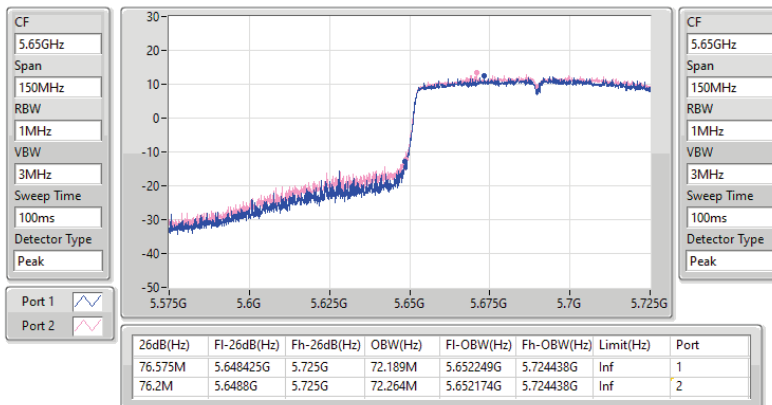
11/10/2022



5.47-5.725GHz_802.11ac VHT80_Nss1,(MCS0)_2TX 5690MHz Straddle 5.47-5.725GHz

EBW

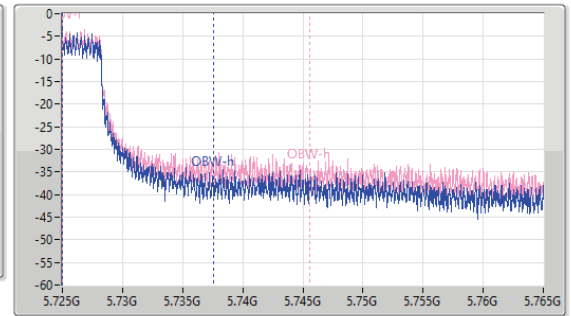
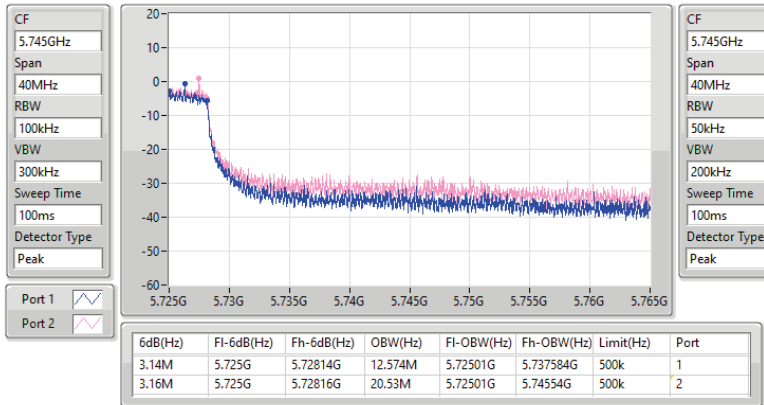
11/10/2022



5.725-5.85GHz_802.11ac VHT80_Nss1,(MCS0)_2TX 5690MHz Straddle 5.725-5.85GHz

EBW

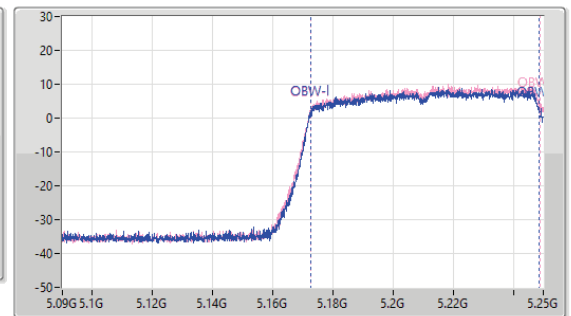
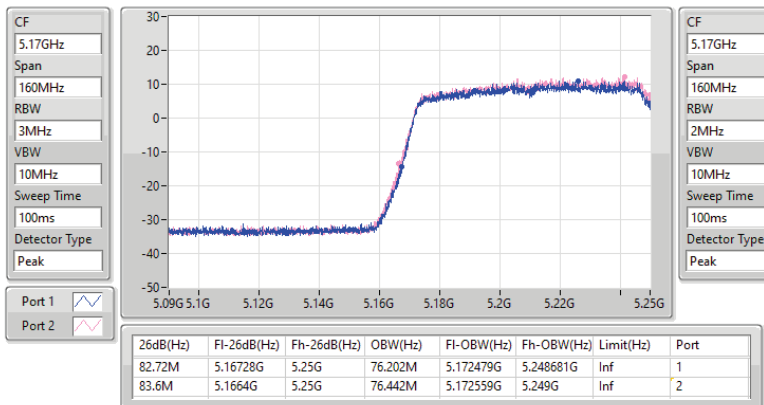
11/10/2022



5.15-5.25GHz_802.11ac VHT160_Nss1,(MCS0)_2TX 5250MHz Straddle 5.15-5.25GHz

EBW

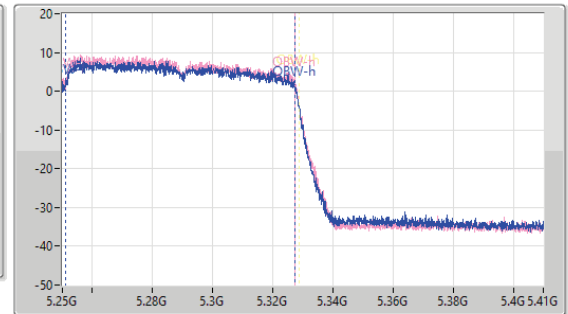
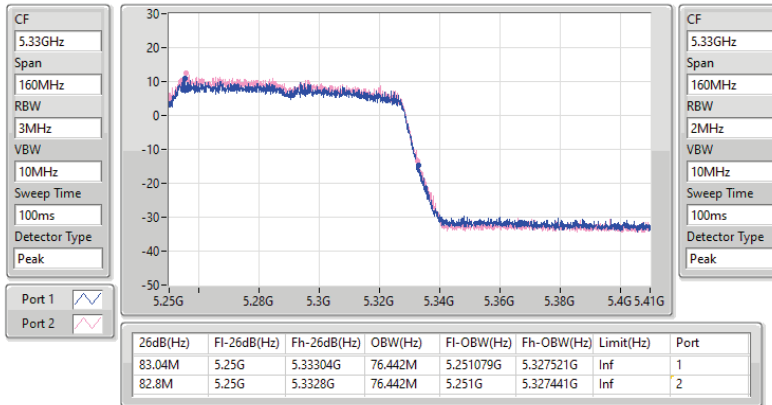
11/10/2022



5.25-5.35GHz_802.11ac VHT160_Nss1,(MCS0)_2TX 5250MHz Straddle 5.25-5.35GHz

EBW

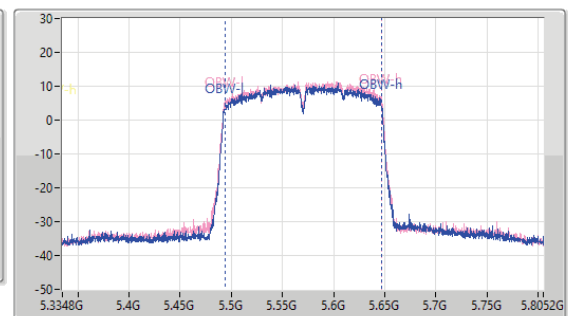
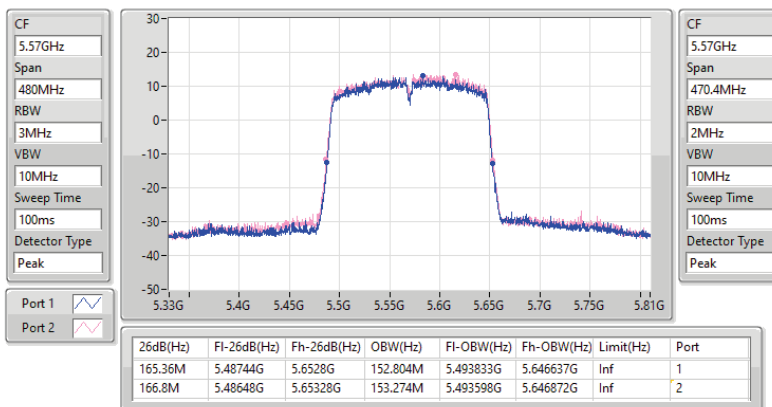
11/10/2022



5.47-5.725GHz_802.11ac VHT160_Nss1,(MCS0)_2TX 5570MHz

EBW

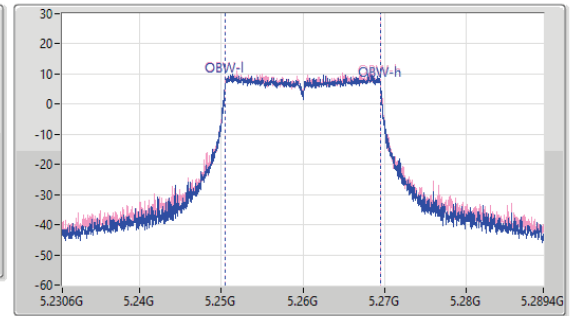
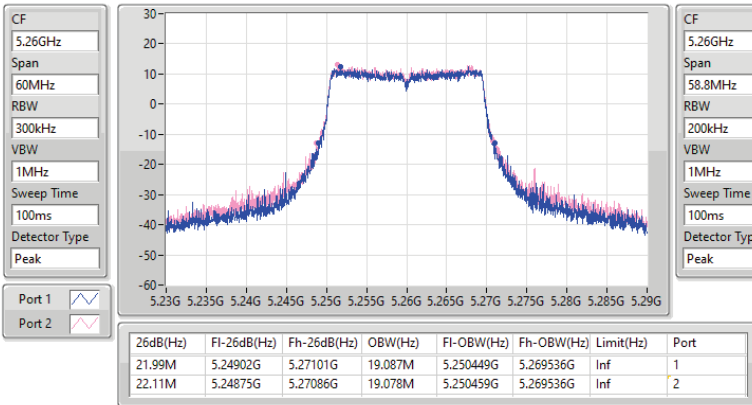
11/10/2022



5.25-5.35GHz_802.11ax HEW20_Nss1,(MCS0)_2TX 5260MHz

EBW

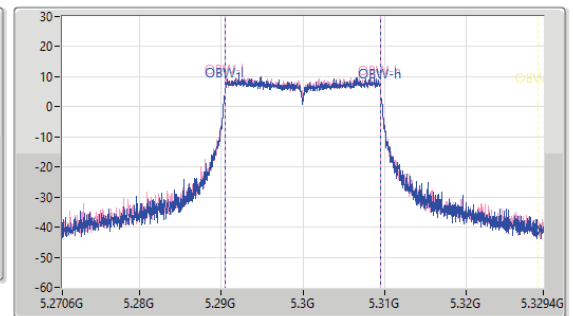
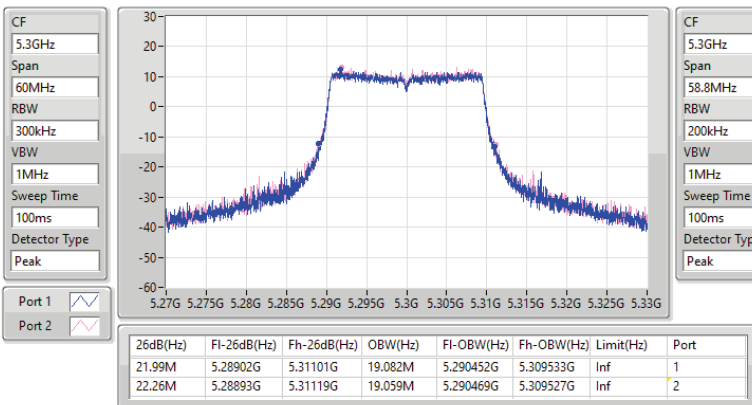
14/04/2023



5.25-5.35GHz_802.11ax HEW20_Nss1,(MCS0)_2TX 5300MHz

EBW

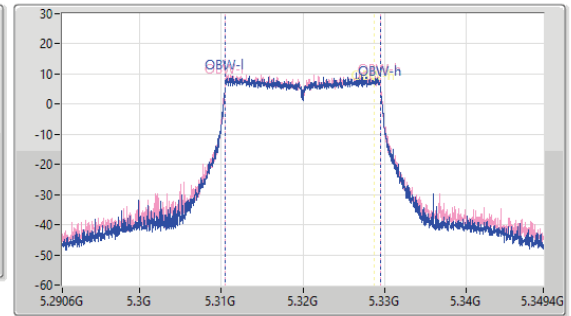
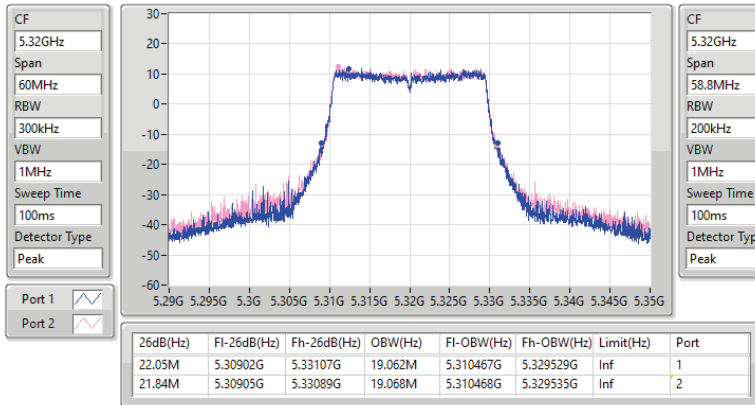
14/04/2023



5.25-5.35GHz_802.11ax HEW20_Nss1,(MCS0)_2TX 5320MHz

EBW

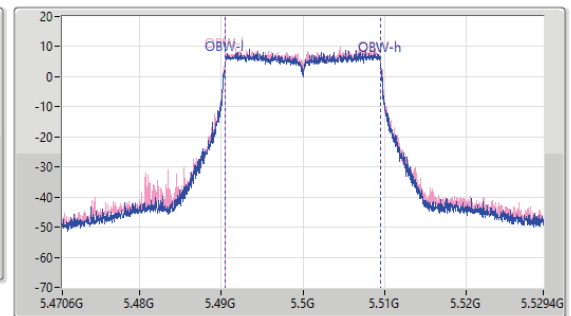
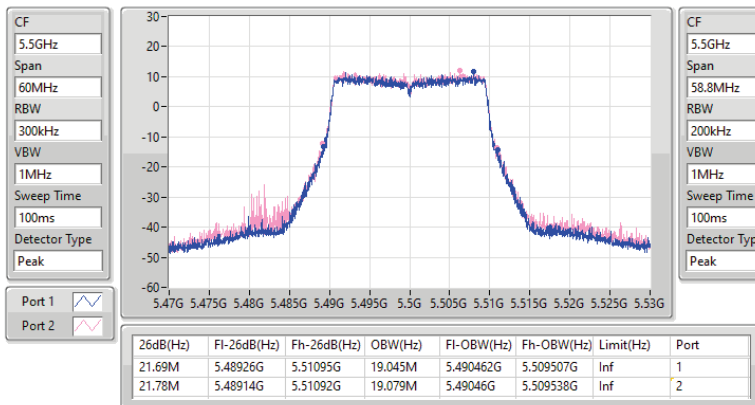
14/04/2023



5.47-5.725GHz_802.11ax HEW20_Nss1,(MCS0)_2TX 5500MHz

EBW

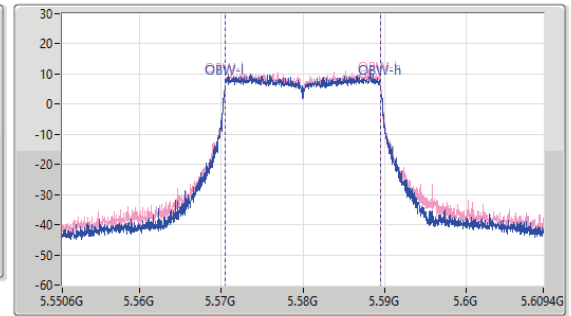
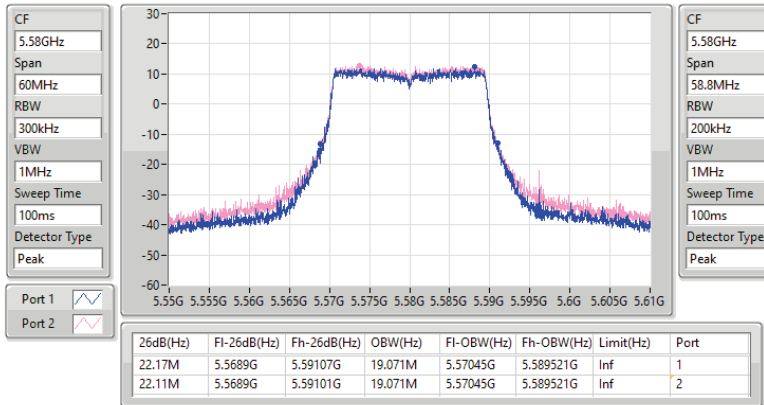
14/04/2023



5.47-5.725GHz_802.11ax HEW20_Nss1,(MCS0)_2TX 5580MHz

EBW

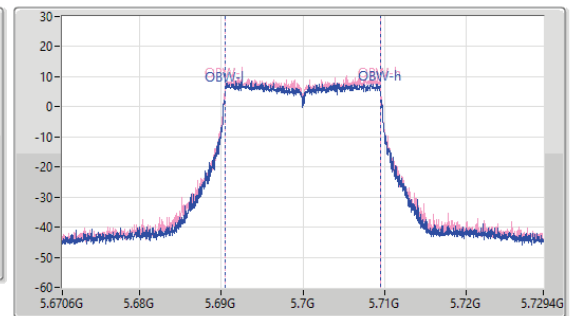
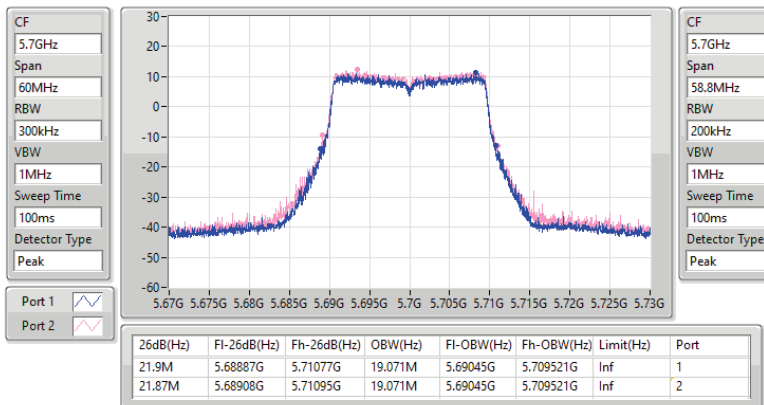
11/10/2022



5.47-5.725GHz_802.11ax HEW20_Nss1,(MCS0)_2TX 5700MHz

EBW

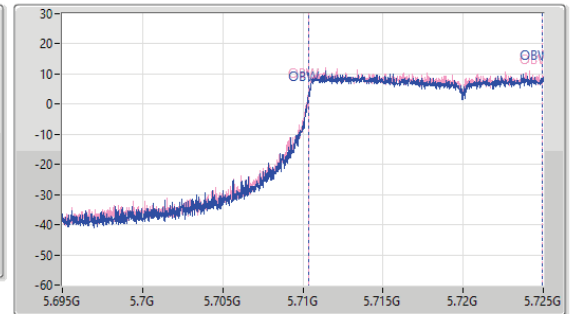
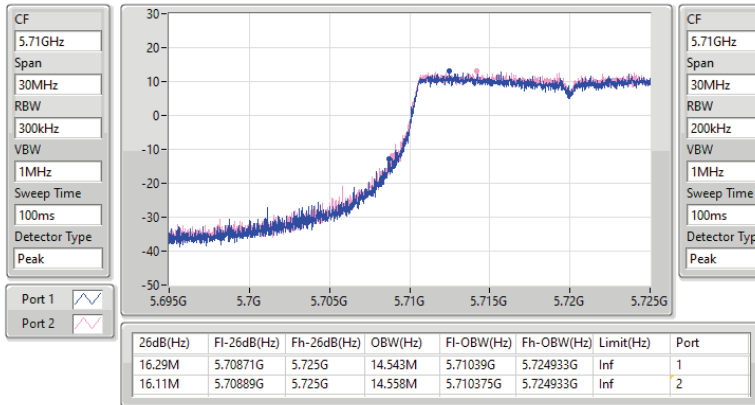
11/10/2022



5.47-5.725GHz_802.11ax HEW20_Nss1,(MCS0)_2TX 5720MHz Straddle 5.47-5.725GHz

EBW

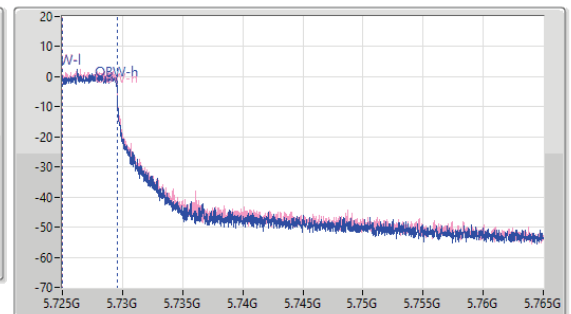
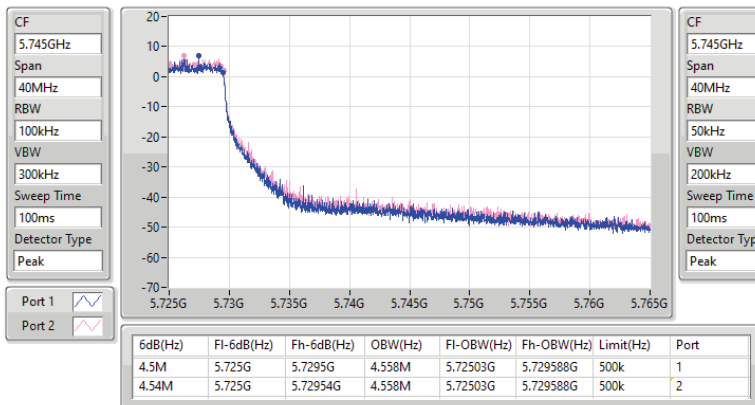
11/10/2022



5.725-5.85GHz_802.11ax HEW20_Nss1,(MCS0)_2TX 5720MHz Straddle 5.725-5.85GHz

EBW

11/10/2022

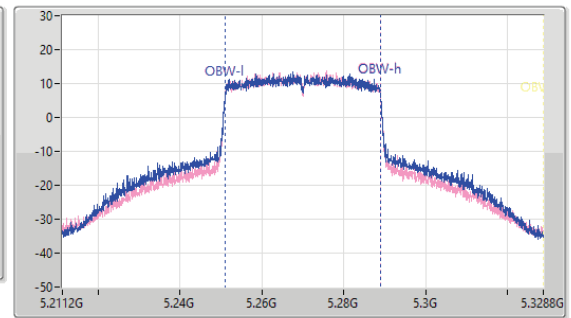
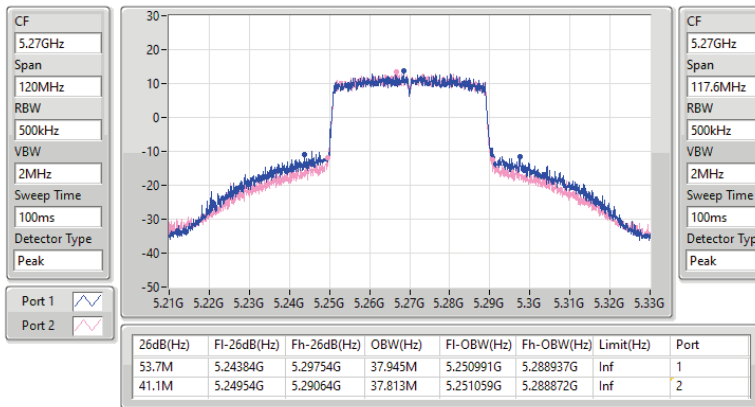


5.25-5.35GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

5270MHz

EBW

14/04/2023

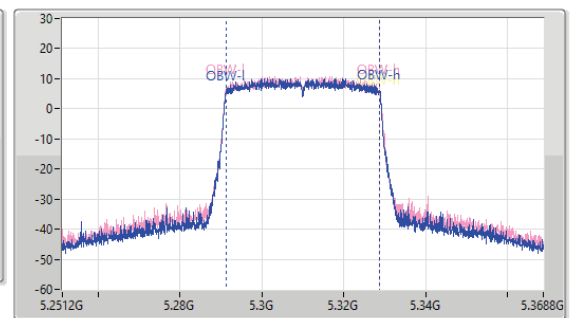
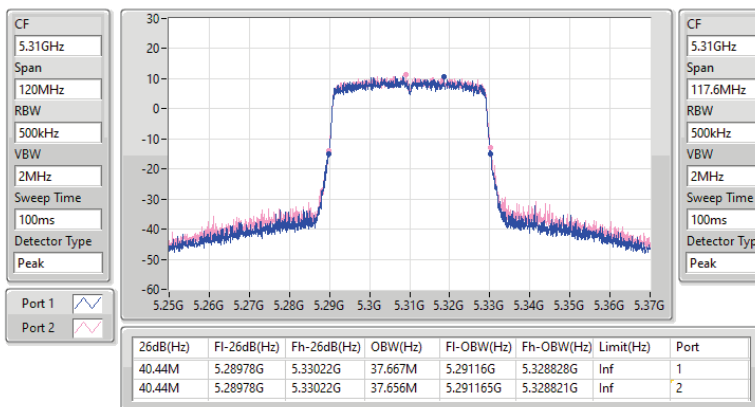


5.25-5.35GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

5310MHz

EBW

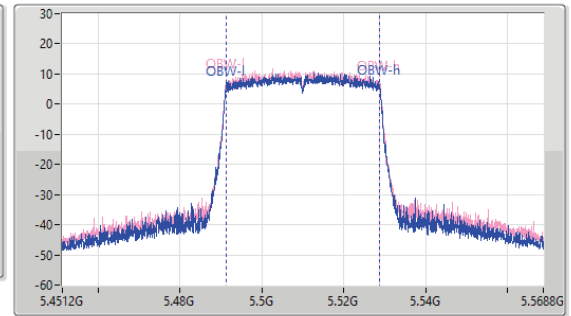
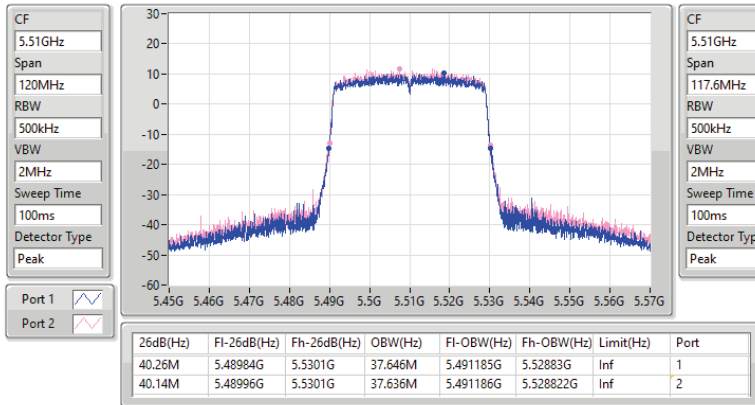
14/04/2023



5.47-5.725GHz_802.11ax HEW40_Nss1,(MCS0)_2TX 5510MHz

EBW

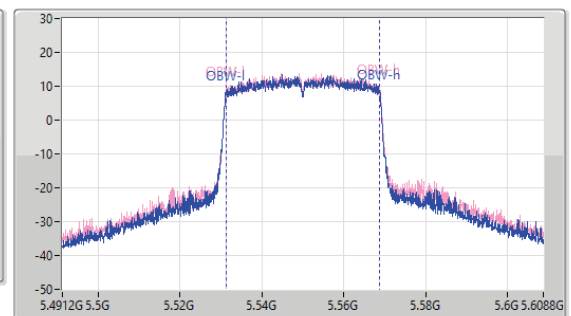
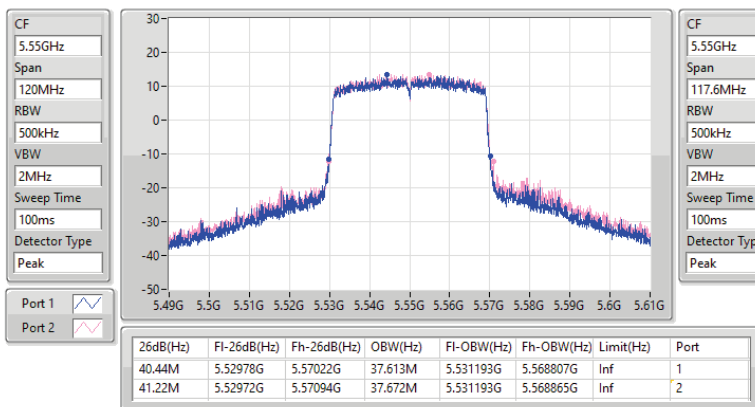
14/04/2023



5.47-5.725GHz_802.11ax HEW40_Nss1,(MCS0)_2TX 5550MHz

EBW

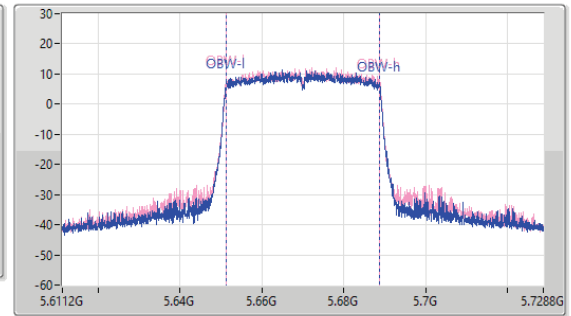
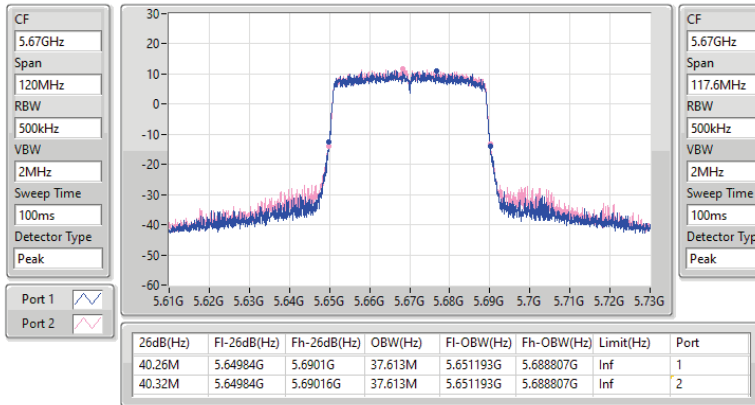
11/10/2022



5.47-5.725GHz_802.11ax HEW40_Nss1,(MCS0)_2TX 5670MHz

EBW

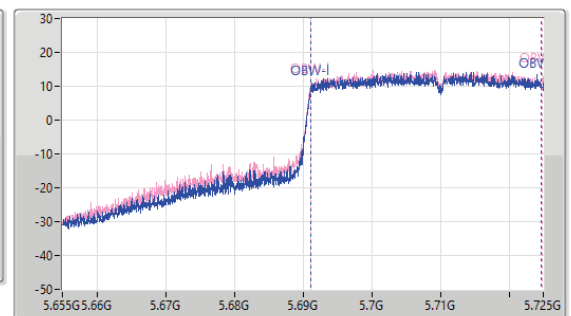
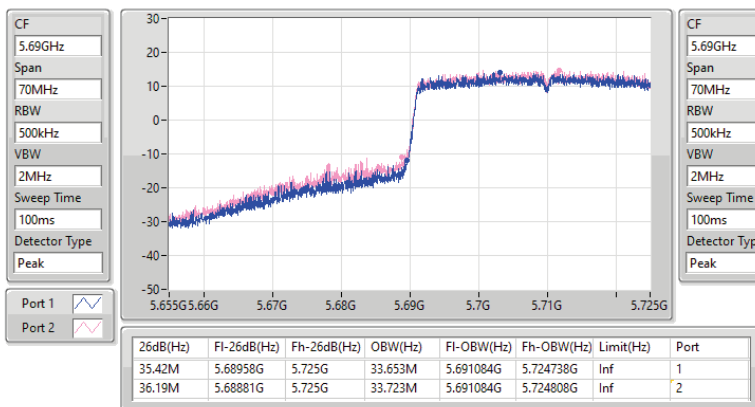
11/10/2022



5.47-5.725GHz_802.11ax HEW40_Nss1,(MCS0)_2TX 5710MHz Straddle 5.47-5.725GHz

EBW

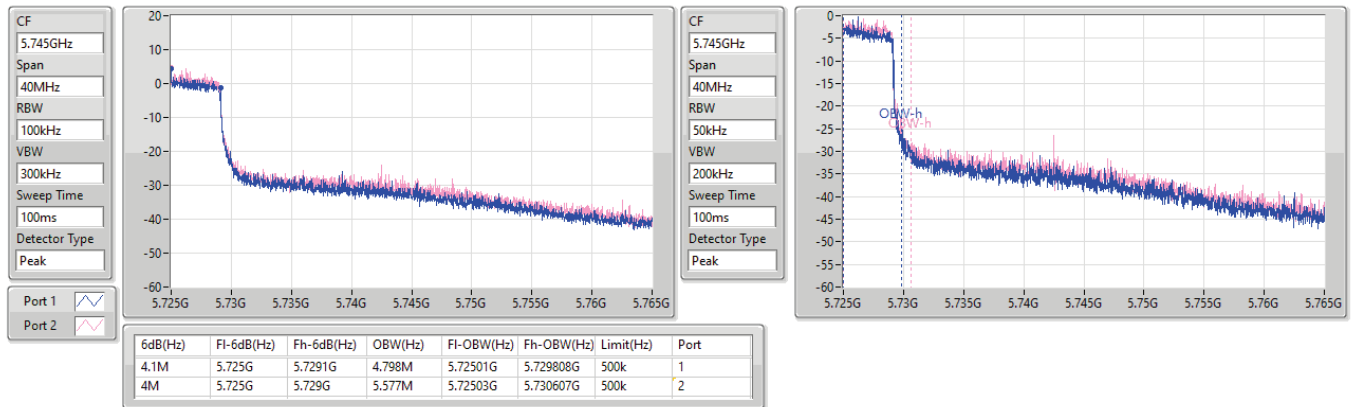
11/10/2022



5.725-5.85GHz_802.11ax HEW40_Nss1,(MCS0)_2TX 5710MHz Straddle 5.725-5.85GHz

EBW

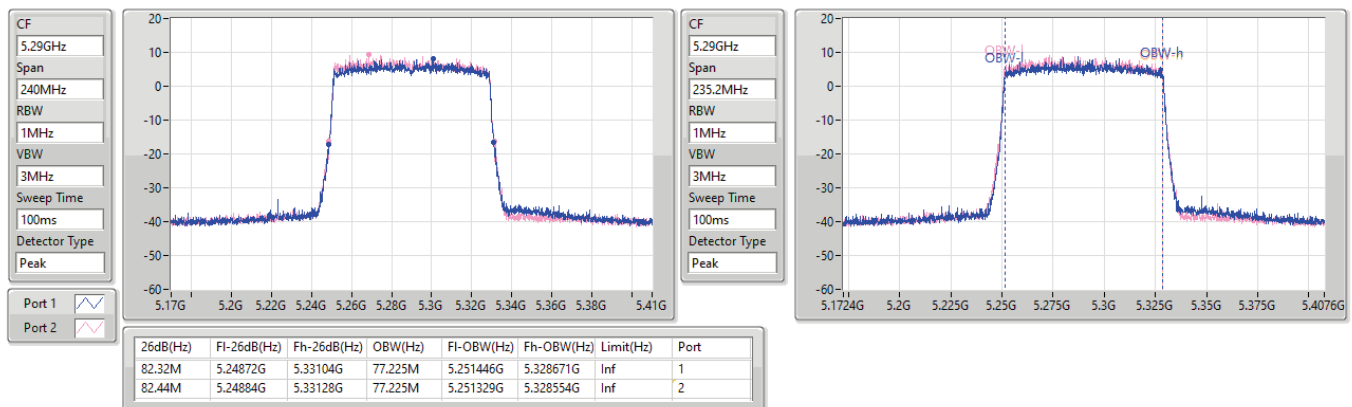
11/10/2022



5.25-5.35GHz_802.11ax HEW80_Nss1,(MCS0)_2TX 5290MHz

EBW

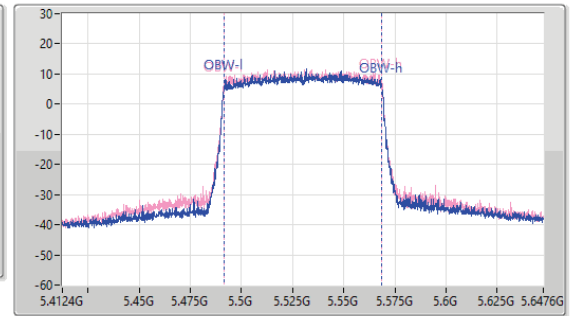
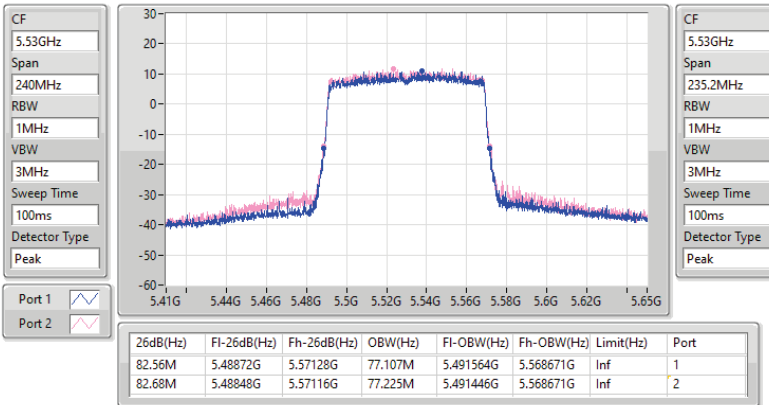
11/10/2022



5.47-5.725GHz_802.11ax HEW80_Nss1,(MCS0)_2TX 5530MHz

EBW

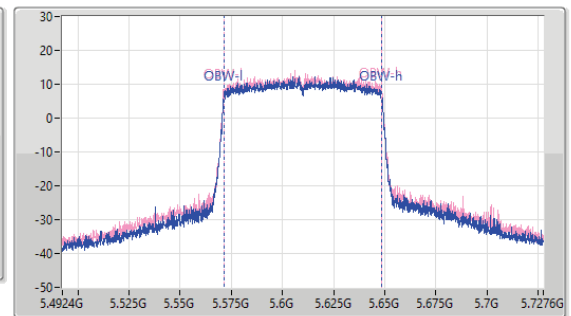
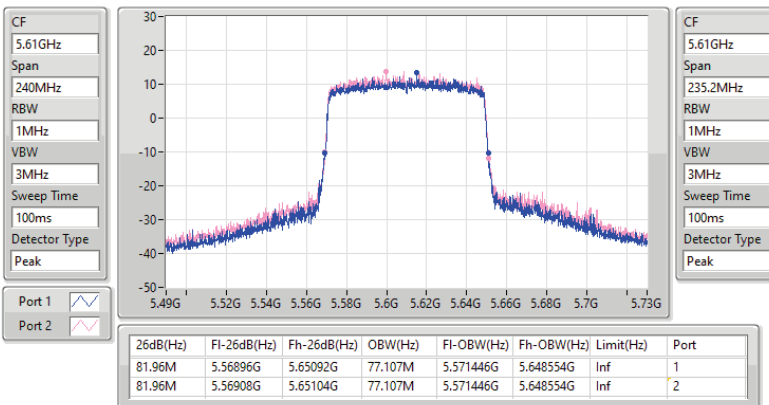
11/10/2022



5.47-5.725GHz_802.11ax HEW80_Nss1,(MCS0)_2TX 5610MHz

EBW

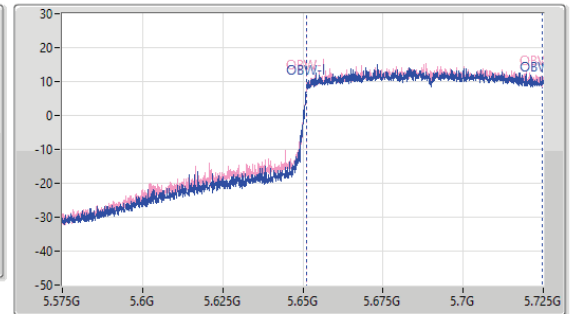
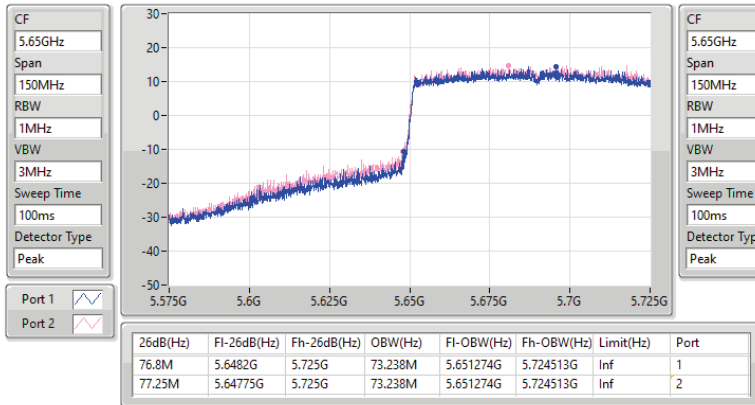
11/10/2022



5.47-5.725GHz_802.11ax HEW80_Nss1,(MCS0)_2TX 5690MHz Straddle 5.47-5.725GHz

EBW

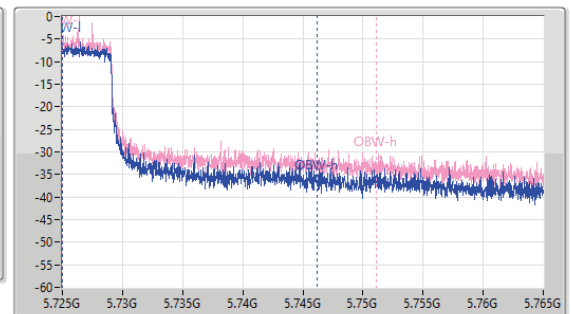
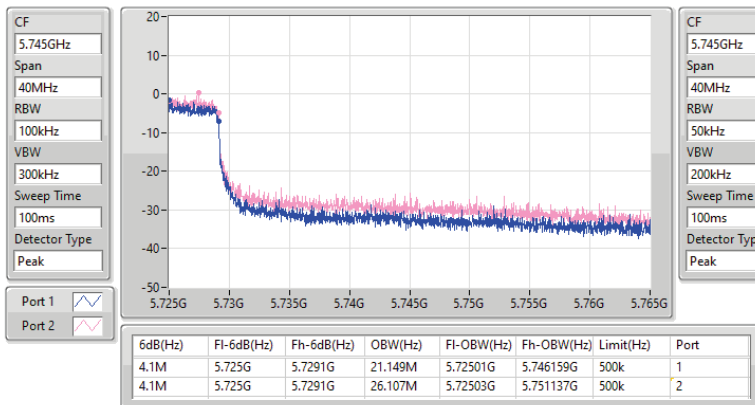
11/10/2022



5.725-5.85GHz_802.11ax HEW80_Nss1,(MCS0)_2TX 5690MHz Straddle 5.725-5.85GHz

EBW

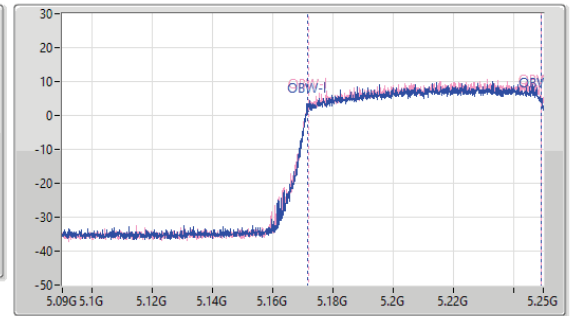
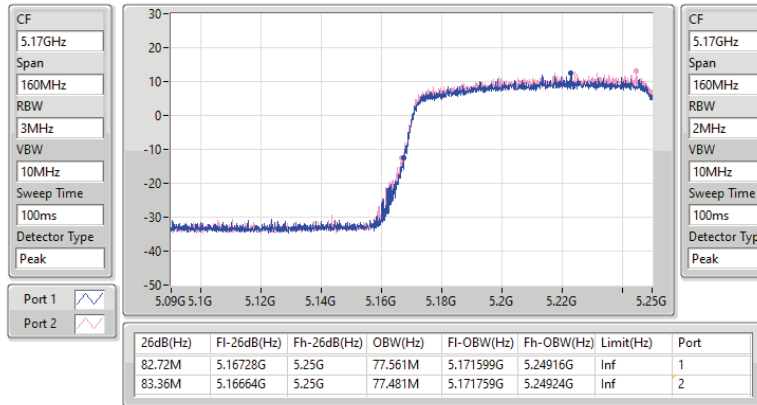
11/10/2022



5.15-5.25GHz_802.11ax HEW160_Nss1,(MCS0)_2TX 5250MHz Straddle 5.15-5.25GHz

EBW

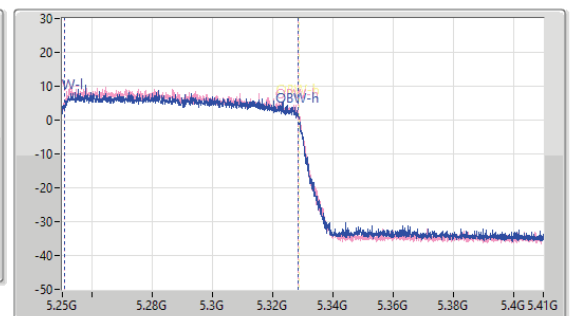
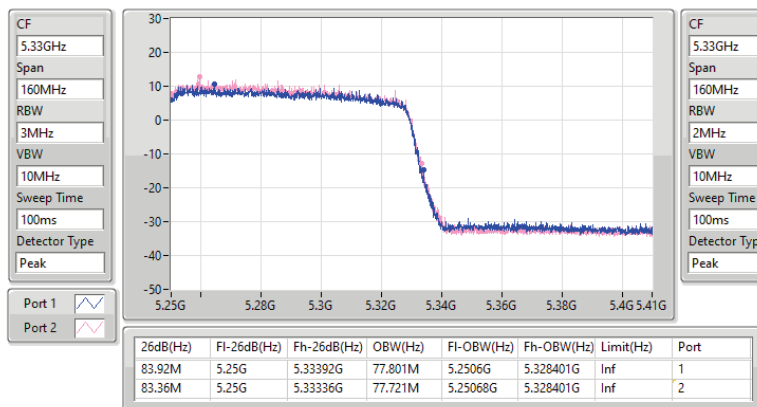
11/10/2022



5.25-5.35GHz_802.11ax HEW160_Nss1,(MCS0)_2TX 5250MHz Straddle 5.25-5.35GHz

EBW

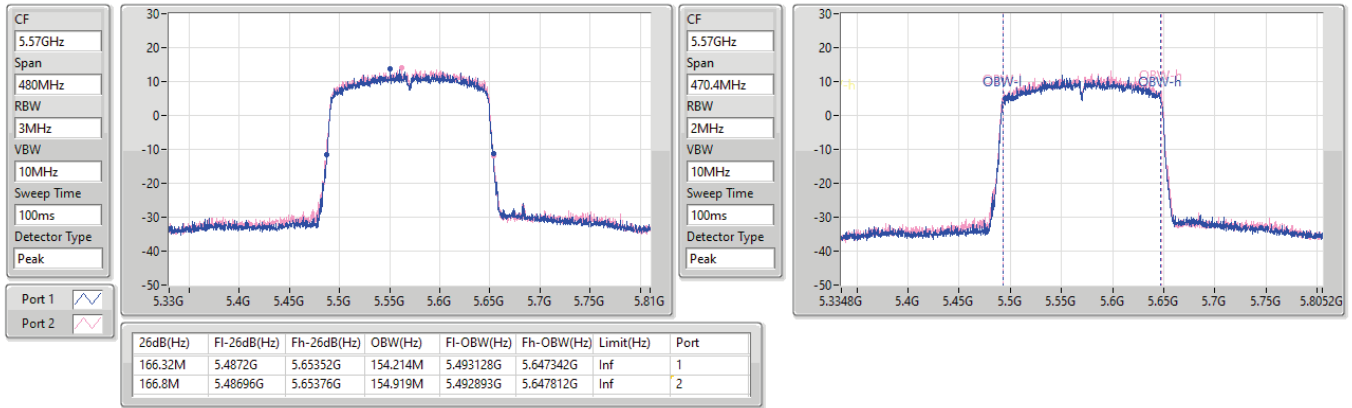
11/10/2022



5.47-5.725GHz_802.11ax HEW160_Nss1,(MCS0)_2TX
5570MHz

EBW

11/10/2022





Average Power_Non-Beamforming_Radio2

Appendix B.1

Summary

Mode	Total Power (dBm)	Total Power (W)	EIRP (dBm)	EIRP (W)
5.25-5.35GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	22.53	0.17906	27.51	0.56364
802.11n HT20_Nss1,(MCS0)_2TX	22.83	0.19187	27.81	0.60395
802.11n HT40_Nss1,(MCS0)_2TX	23.75	0.23714	28.73	0.74645
802.11ac VHT20_Nss1,(MCS0)_2TX	23.67	0.23281	28.65	0.73282
802.11ac VHT40_Nss1,(MCS0)_2TX	23.82	0.24099	28.80	0.75858
802.11ac VHT80_Nss1,(MCS0)_2TX	18.08	0.06427	23.06	0.20230
802.11ax HEW20_Nss1,(MCS0)_2TX	23.03	0.20091	28.01	0.63241
802.11ax HEW40_Nss1,(MCS0)_2TX	23.94	0.24774	28.92	0.77983
802.11ax HEW80_Nss1,(MCS0)_2TX	18.16	0.06546	23.14	0.20606
5.47-5.725GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	22.05	0.16032	27.03	0.50466
802.11n HT20_Nss1,(MCS0)_2TX	22.02	0.15922	27.00	0.50119
802.11n HT40_Nss1,(MCS0)_2TX	23.54	0.22594	28.52	0.71121
802.11ac VHT20_Nss1,(MCS0)_2TX	22.13	0.16331	27.11	0.51404
802.11ac VHT40_Nss1,(MCS0)_2TX	23.62	0.23014	28.60	0.72444
802.11ac VHT80_Nss1,(MCS0)_2TX	23.81	0.24044	28.79	0.75683
802.11ax HEW20_Nss1,(MCS0)_2TX	22.42	0.17458	27.40	0.54954
802.11ax HEW40_Nss1,(MCS0)_2TX	23.69	0.23388	28.67	0.73621
802.11ax HEW80_Nss1,(MCS0)_2TX	23.89	0.24491	28.87	0.77090
5.725-5.85GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	11.57	0.01435	16.55	0.04519
802.11n HT20_Nss1,(MCS0)_2TX	15.44	0.03499	20.42	0.11015
802.11n HT40_Nss1,(MCS0)_2TX	13.46	0.02218	18.44	0.06982
802.11ac VHT20_Nss1,(MCS0)_2TX	15.54	0.03581	20.52	0.11272
802.11ac VHT40_Nss1,(MCS0)_2TX	13.52	0.02249	18.50	0.07079
802.11ac VHT80_Nss1,(MCS0)_2TX	9.96	0.00991	14.94	0.03119
802.11ax HEW20_Nss1,(MCS0)_2TX	15.60	0.03631	20.58	0.11429
802.11ax HEW40_Nss1,(MCS0)_2TX	13.60	0.02291	18.58	0.07211
802.11ax HEW80_Nss1,(MCS0)_2TX	10.08	0.01019	15.06	0.03206



Average Power_Non-Beamforming_Radio2

Appendix B.1

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	-	-	-	-	-	-	-	-
5260MHz	Pass	4.98	19.48	19.56	22.53	23.98	27.51	30.00
5300MHz	Pass	4.98	19.89	18.6	22.30	23.98	27.28	30.00
5320MHz	Pass	4.98	17.77	17.25	20.53	23.98	25.51	30.00
5500MHz	Pass	4.98	18.86	19.21	22.05	23.98	27.03	30.00
5580MHz	Pass	4.98	17.62	18.08	20.87	23.98	25.85	29.98
5700MHz	Pass	4.98	16.03	16.49	19.28	23.98	24.26	30.00
5720MHz Straddle 5.47-5.725GHz	Pass	4.98	14.63	15.44	18.06	22.84	23.04	28.84
5720MHz Straddle 5.725-5.85GHz	Pass	4.98	8.19	8.9	11.57	30.00	16.55	36.00
802.11n HT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5260MHz	Pass	4.98	19.75	19.89	22.83	23.98	27.81	30.00
5300MHz	Pass	4.98	20.39	18.99	22.76	23.98	27.74	30.00
5320MHz	Pass	4.98	18.5	17.84	21.19	23.98	26.17	30.00
5500MHz	Pass	4.98	18.79	19.22	22.02	23.98	27.00	30.00
5580MHz	Pass	4.98	18.38	18.9	21.66	23.98	26.64	30.00
5700MHz	Pass	4.98	18.34	18.77	21.57	23.98	26.55	30.00
5720MHz Straddle 5.47-5.725GHz	Pass	4.98	17.7	18.36	21.05	22.97	26.03	28.97
5720MHz Straddle 5.725-5.85GHz	Pass	4.98	12.23	12.63	15.44	30.00	20.42	36.00
802.11n HT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5270MHz	Pass	4.98	20.76	20.71	23.75	23.98	28.73	30.00
5310MHz	Pass	4.98	17.51	16.59	20.08	23.98	25.06	30.00
5510MHz	Pass	4.98	18.13	18.41	21.28	23.98	26.26	30.00
5550MHz	Pass	4.98	20.52	20.53	23.54	23.98	28.52	30.00
5670MHz	Pass	4.98	18.25	17.99	21.13	23.98	26.11	30.00
5710MHz Straddle 5.47-5.725GHz	Pass	4.98	20.23	20.77	23.52	23.98	28.50	30.00
5710MHz Straddle 5.725-5.85GHz	Pass	4.98	10.42	10.48	13.46	30.00	18.44	36.00
802.11ac VHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5260MHz	Pass	4.98	20.52	19.71	23.14	23.98	28.12	30.00
5300MHz	Pass	4.98	20.64	20.67	23.67	23.98	28.65	30.00
5320MHz	Pass	4.98	18.59	18.18	21.40	23.98	26.38	30.00
5500MHz	Pass	4.98	18.92	19.31	22.13	23.98	27.11	30.00
5580MHz	Pass	4.98	18.88	18.45	21.68	23.98	26.66	30.00
5700MHz	Pass	4.98	18.48	18.87	21.69	23.98	26.67	30.00
5720MHz Straddle 5.47-5.725GHz	Pass	4.98	17.8	18.45	21.15	22.90	26.13	28.90
5720MHz Straddle 5.725-5.85GHz	Pass	4.98	12.29	12.75	15.54	30.00	20.52	36.00
802.11ac VHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5270MHz	Pass	4.98	20.86	20.76	23.82	23.98	28.80	30.00
5310MHz	Pass	4.98	17.57	16.64	20.14	23.98	25.12	30.00
5510MHz	Pass	4.98	18.17	18.4	21.30	23.98	26.28	30.00
5550MHz	Pass	4.98	20.58	20.57	23.59	23.98	28.57	30.00
5670MHz	Pass	4.98	18.38	18.09	21.25	23.98	26.23	30.00
5710MHz Straddle 5.47-5.725GHz	Pass	4.98	20.36	20.85	23.62	23.98	28.60	30.00
5710MHz Straddle 5.725-5.85GHz	Pass	4.98	10.47	10.55	13.52	30.00	18.50	36.00
802.11ac VHT80_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5290MHz	Pass	4.98	15.35	14.76	18.08	23.98	23.06	30.00
5530MHz	Pass	4.98	15.55	15.81	18.69	23.98	23.67	30.00
5610MHz	Pass	4.98	20.61	19.85	23.26	23.98	28.24	30.00
5690MHz Straddle 5.47-5.725GHz	Pass	4.98	20.79	20.81	23.81	23.98	28.79	30.00
5690MHz Straddle 5.725-5.85GHz	Pass	4.98	7.13	6.76	9.96	30.00	14.94	36.00
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5260MHz	Pass	4.98	19.98	20.06	23.03	23.98	28.01	30.00
5300MHz	Pass	4.98	20.52	19.19	22.92	23.98	27.90	30.00
5320MHz	Pass	4.98	18.72	18.07	21.42	23.98	26.40	30.00
5500MHz	Pass	4.98	19.06	19.74	22.42	23.98	27.40	30.00
5580MHz	Pass	4.98	18.67	19.11	21.91	23.98	26.89	30.00



Average Power_Non-Beamforming_Radio2

Appendix B.1

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
5700MHz	Pass	4.98	18.6	18.94	21.78	23.98	26.76	30.00
5720MHz Straddle 5.47-5.725GHz	Pass	4.98	17.87	18.51	21.21	22.93	26.19	28.93
5720MHz Straddle 5.725-5.85GHz	Pass	4.98	12.36	12.81	15.60	30.00	20.58	36.00
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5270MHz	Pass	4.98	21	20.85	23.94	23.98	28.92	30.00
5310MHz	Pass	4.98	17.63	16.71	20.20	23.98	25.18	30.00
5510MHz	Pass	4.98	18.2	18.46	21.34	23.98	26.32	30.00
5550MHz	Pass	4.98	20.6	20.58	23.60	23.98	28.58	30.00
5670MHz	Pass	4.98	18.48	18.21	21.36	23.98	26.34	30.00
5710MHz Straddle 5.47-5.725GHz	Pass	4.98	20.42	20.93	23.69	23.98	28.67	30.00
5710MHz Straddle 5.725-5.85GHz	Pass	4.98	10.55	10.63	13.60	30.00	18.58	36.00
802.11ax HEW80_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5290MHz	Pass	4.98	15.46	14.82	18.16	23.98	23.14	30.00
5530MHz	Pass	4.98	15.63	15.95	18.80	23.98	23.78	30.00
5610MHz	Pass	4.98	20.72	19.96	23.37	23.98	28.35	30.00
5690MHz Straddle 5.47-5.725GHz	Pass	4.98	20.9	20.86	23.89	23.98	28.87	30.00
5690MHz Straddle 5.725-5.85GHz	Pass	4.98	7.24	6.9	10.08	30.00	15.06	36.00

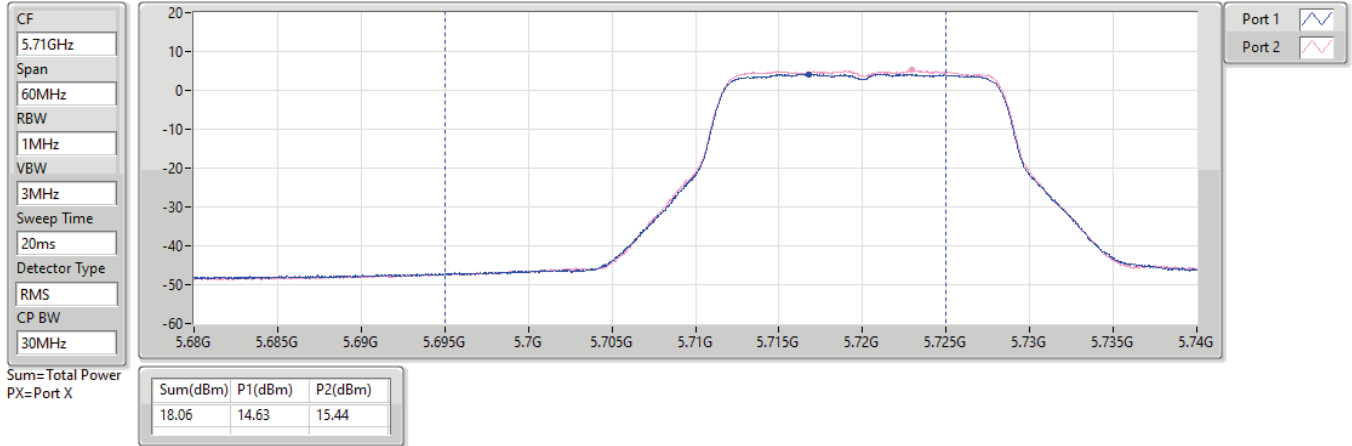
DG = Directional Gain; Port X = Port X output power

5.47-5.725GHz_802.11a_Nss1,(6Mbps)_2TX

AV Power

5720MHz Straddle 5.47-5.725GHz_TX

09/10/2022

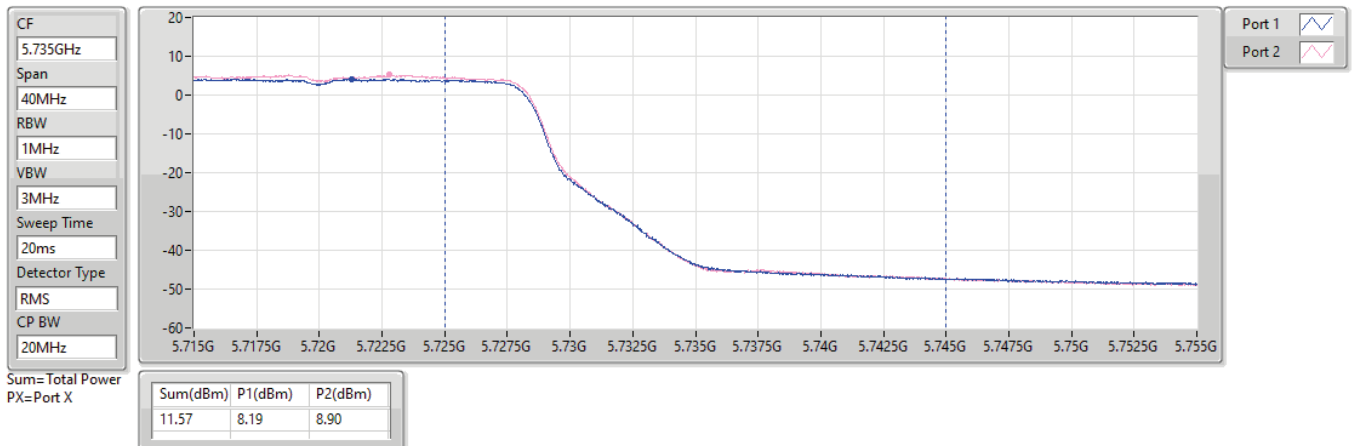


5.725-5.85GHz_802.11a_Nss1,(6Mbps)_2TX

AV Power

5720MHz Straddle 5.725-5.85GHz_TX

09/10/2022

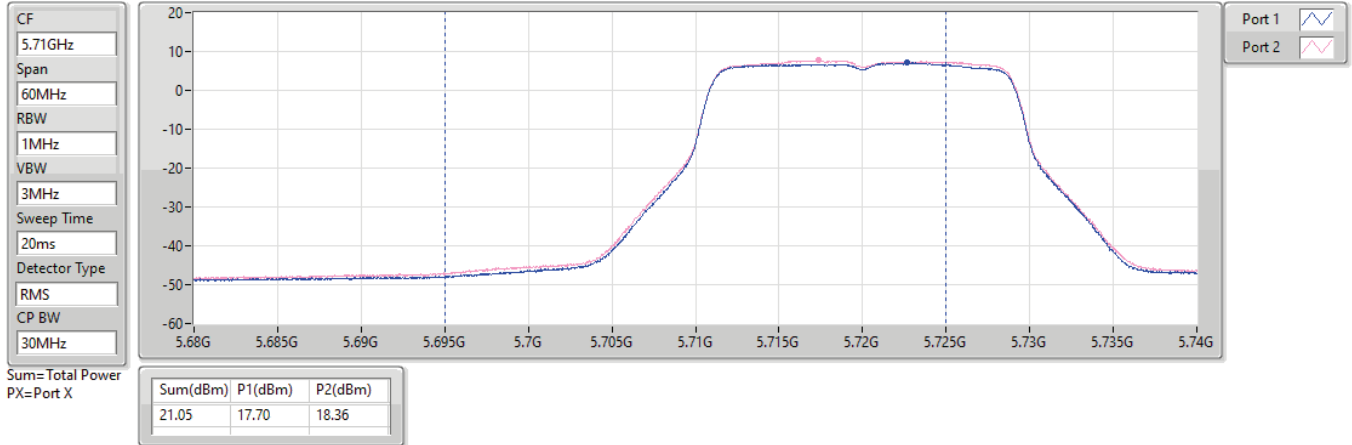


5.47-5.725GHz_802.11n HT20_Nss1,(MCS0)_2TX

AV Power

5720MHz Straddle 5.47-5.725GHz_TX

19/10/2022

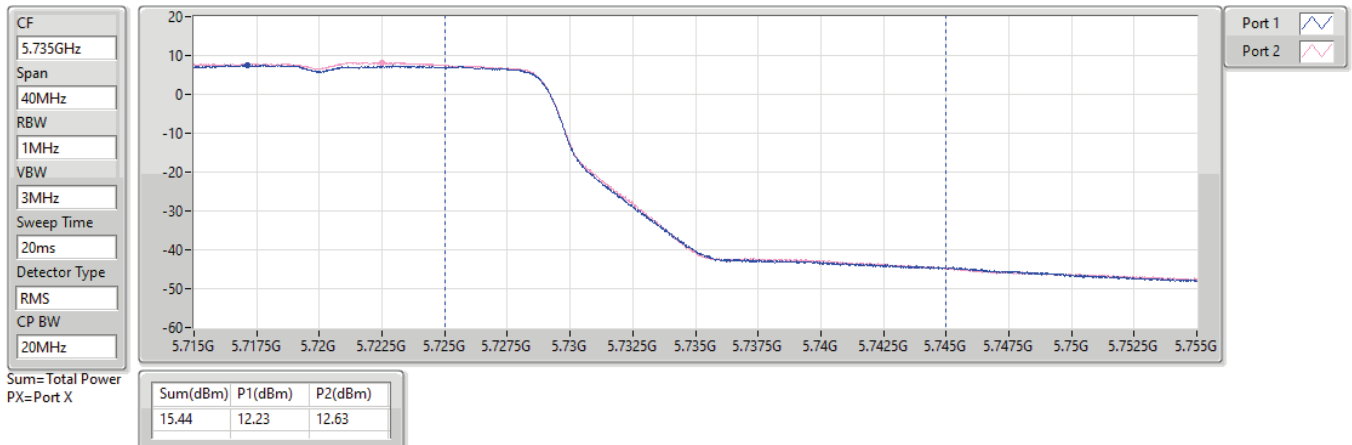


5.725-5.85GHz_802.11n HT20_Nss1,(MCS0)_2TX

AV Power

5720MHz Straddle 5.725-5.85GHz_TX

19/10/2022

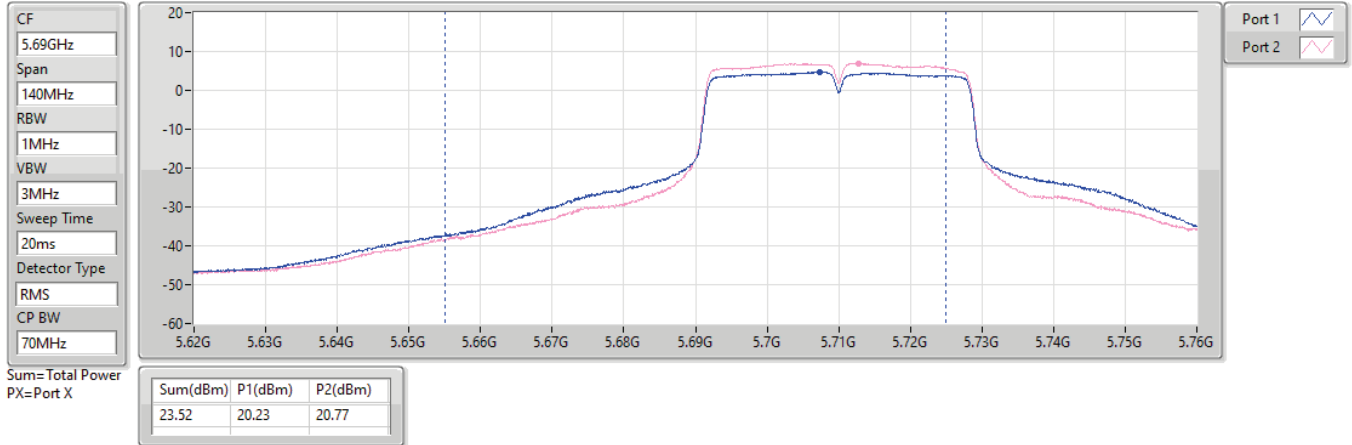


5.47-5.725GHz_802.11n HT40_Nss1,(MCS0)_2TX

AV Power

5710MHz Straddle 5.47-5.725GHz_TX

09/10/2022

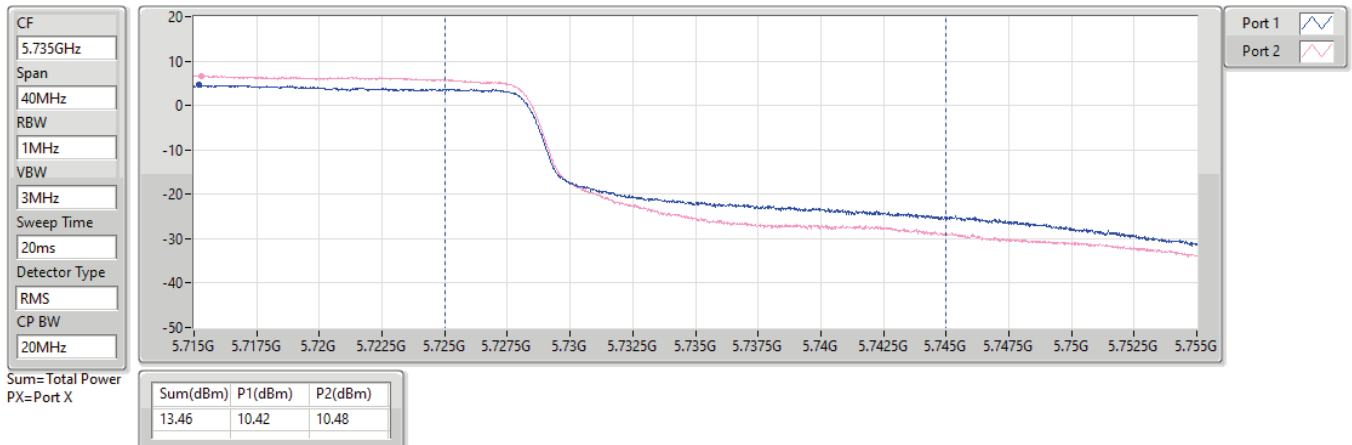


5.725-5.85GHz_802.11n HT40_Nss1,(MCS0)_2TX

AV Power

5710MHz Straddle 5.725-5.85GHz_TX

09/10/2022

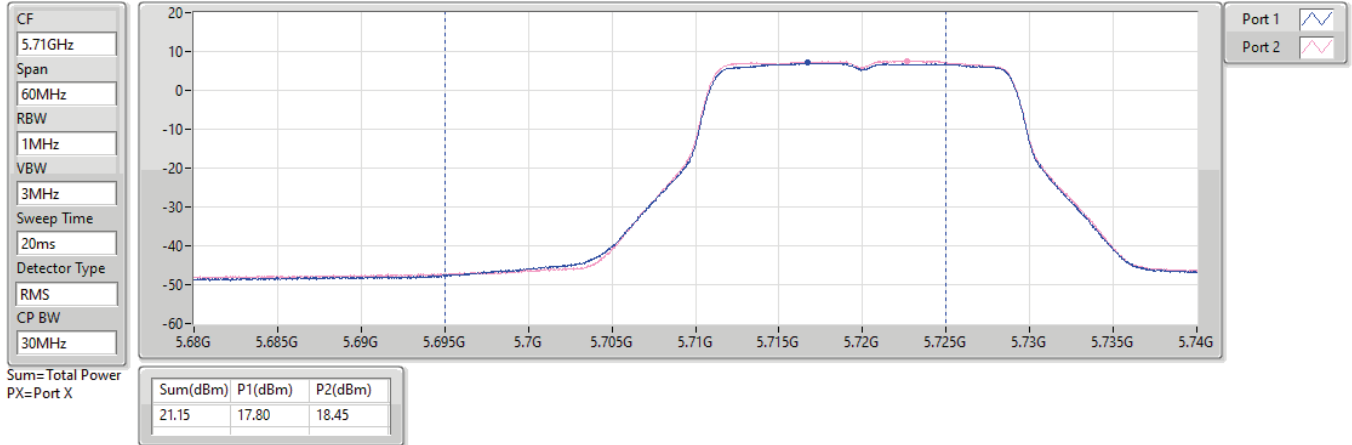


5.47-5.725GHz_802.11ac VHT20_Nss1,(MCS0)_2TX

AV Power

5720MHz Straddle 5.47-5.725GHz_TX

19/10/2022

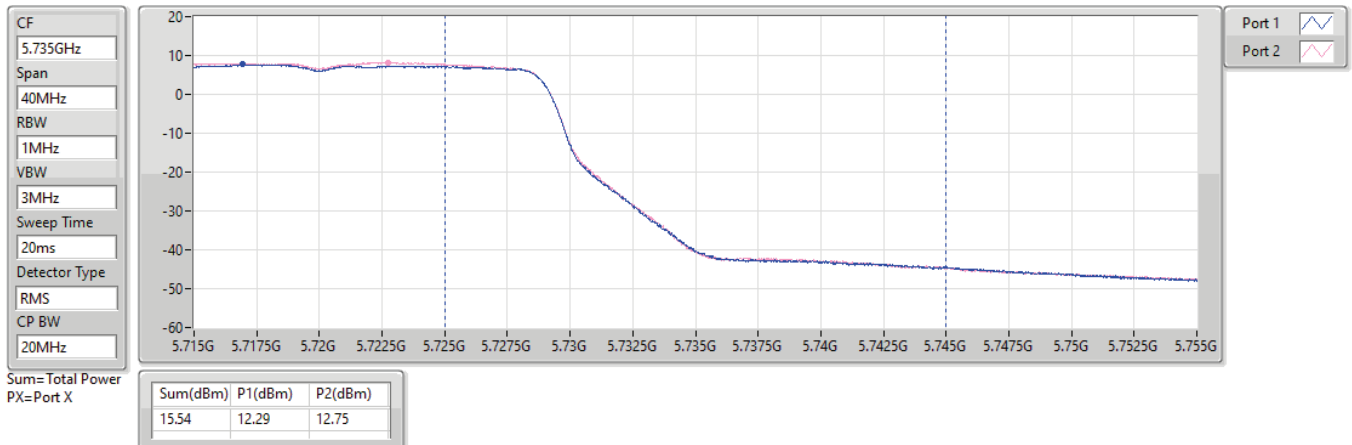


5.725-5.85GHz_802.11ac VHT20_Nss1,(MCS0)_2TX

AV Power

5720MHz Straddle 5.725-5.85GHz_TX

19/10/2022

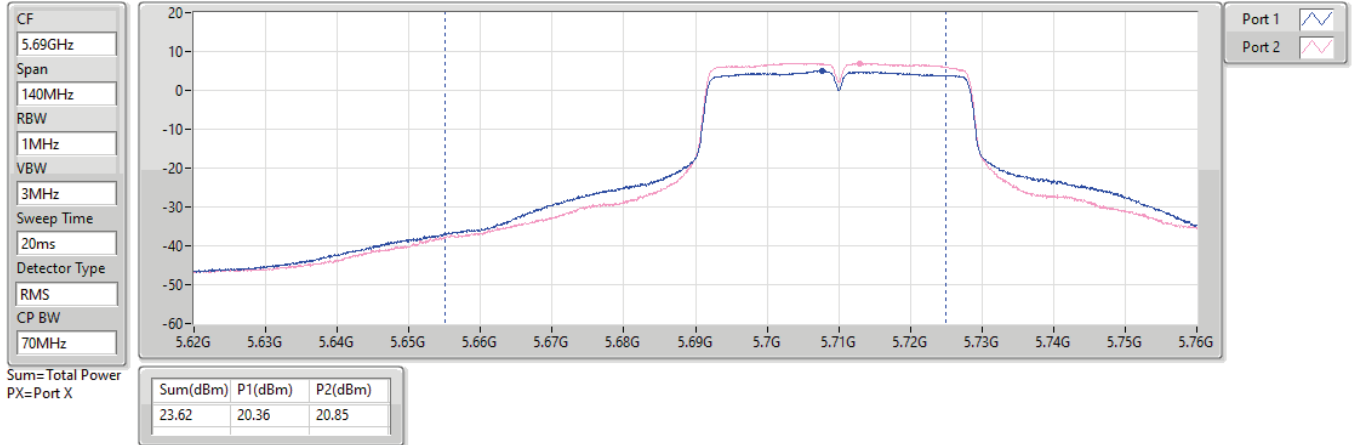


5.47-5.725GHz_802.11ac VHT40_Nss1,(MCS0)_2TX

AV Power

5710MHz Straddle 5.47-5.725GHz_TX

09/10/2022

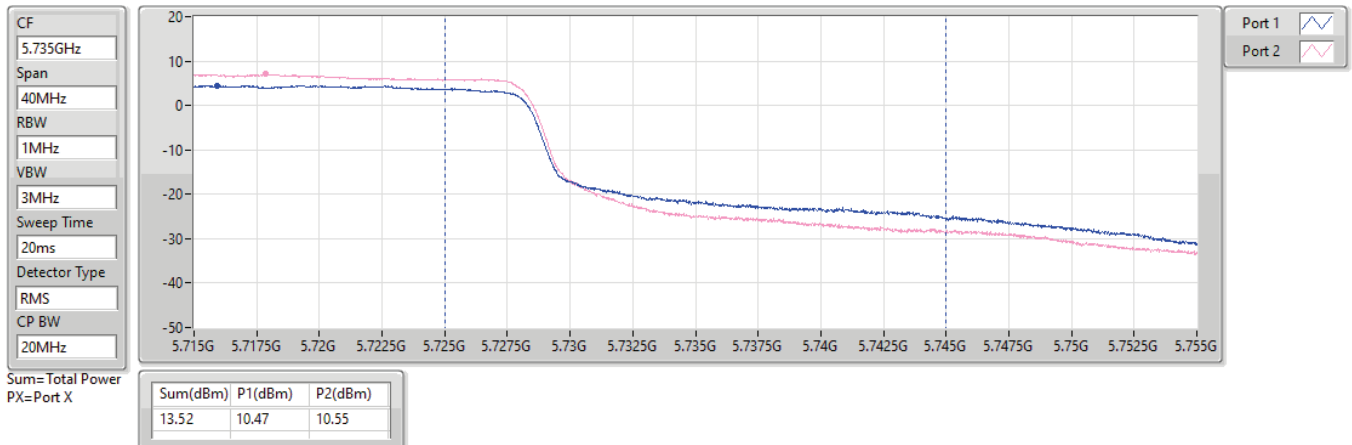


5.725-5.85GHz_802.11ac VHT40_Nss1,(MCS0)_2TX

AV Power

5710MHz Straddle 5.725-5.85GHz_TX

09/10/2022

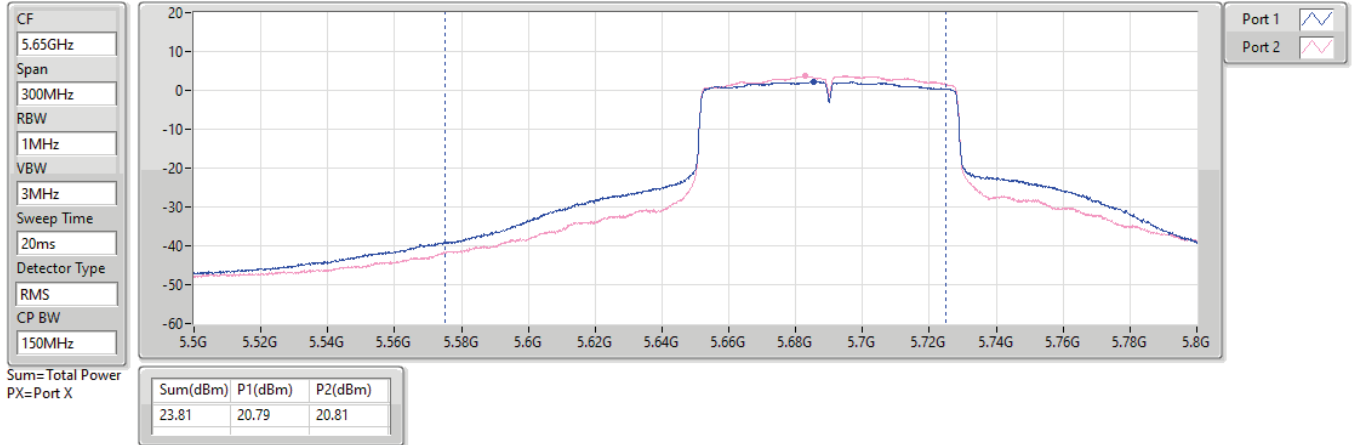


5.47-5.725GHz_802.11ac VHT80_Nss1,(MCS0)_2TX

AV Power

5690MHz Straddle 5.47-5.725GHz_TX

09/10/2022

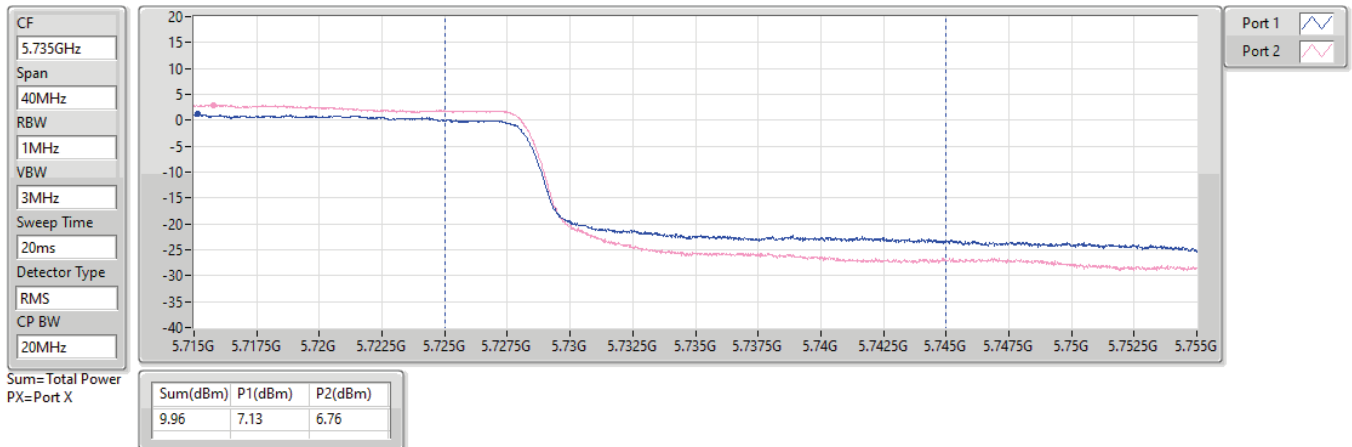


5.725-5.85GHz_802.11ac VHT80_Nss1,(MCS0)_2TX

AV Power

5690MHz Straddle 5.725-5.85GHz_TX

09/10/2022

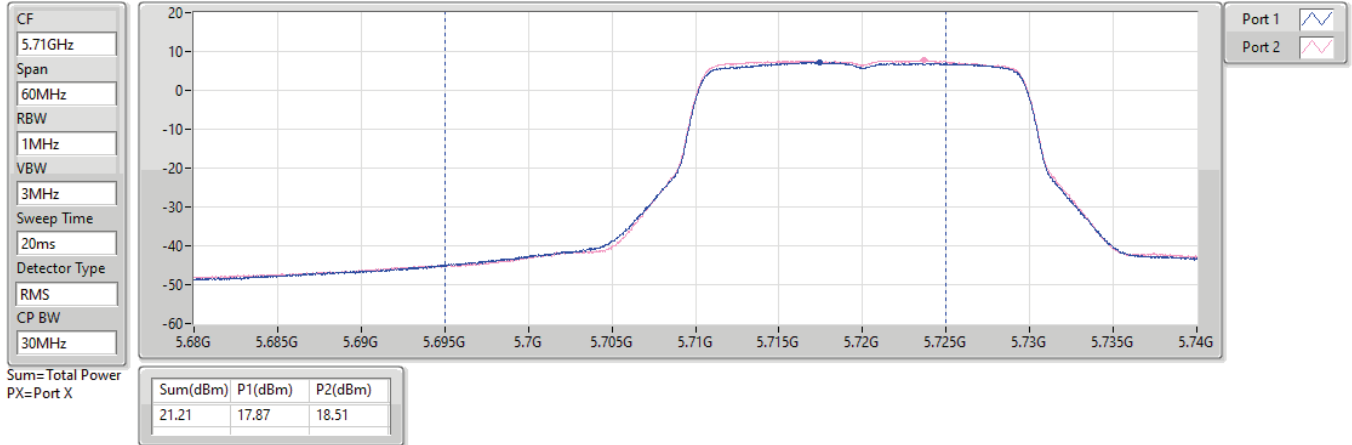


5.47-5.725GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

AV Power

5720MHz Straddle 5.47-5.725GHz_TX

19/10/2022

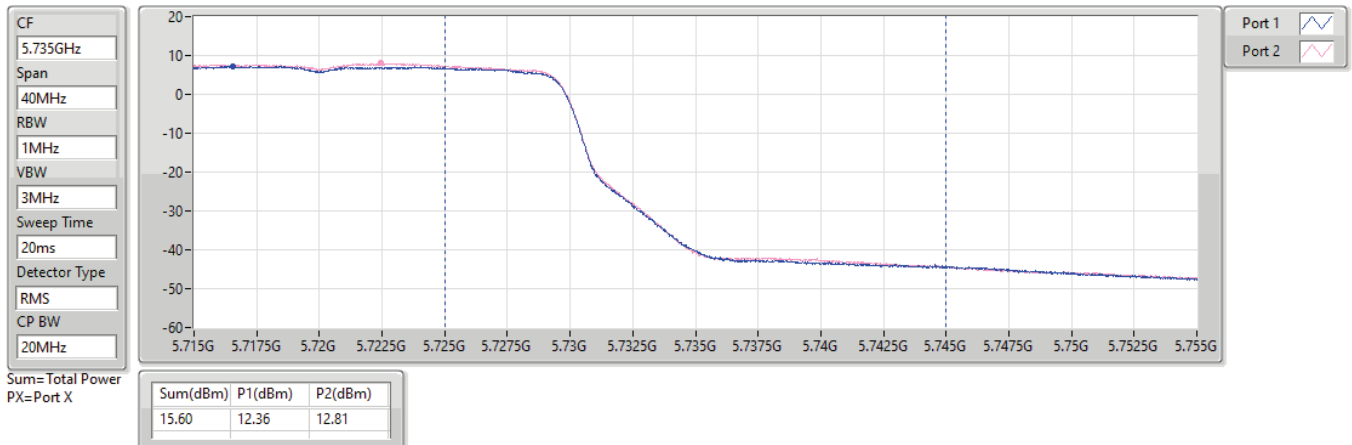


5.725-5.85GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

AV Power

5720MHz Straddle 5.725-5.85GHz_TX

19/10/2022

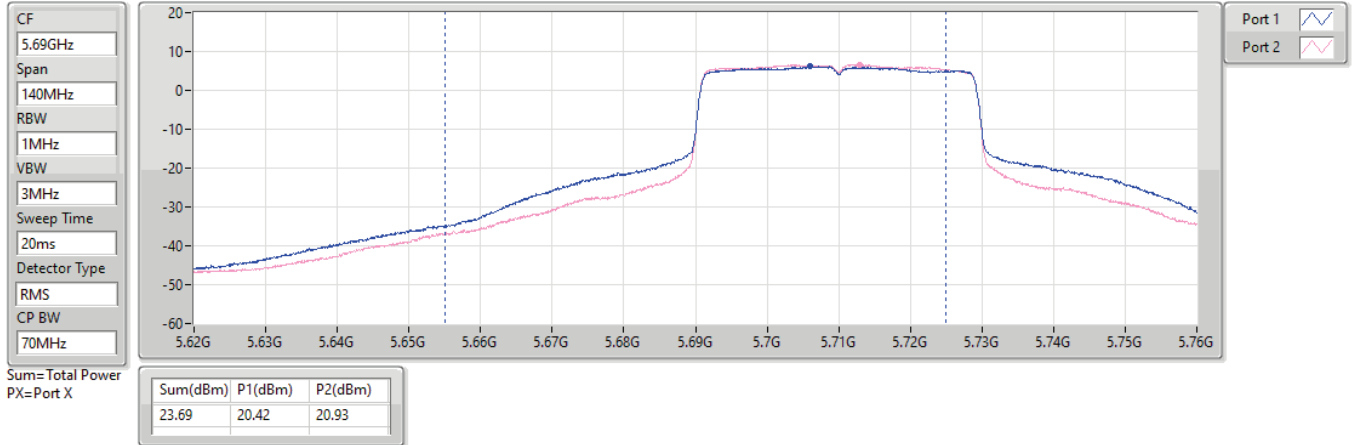


5.47-5.725GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

AV Power

5710MHz Straddle 5.47-5.725GHz_TX

09/10/2022

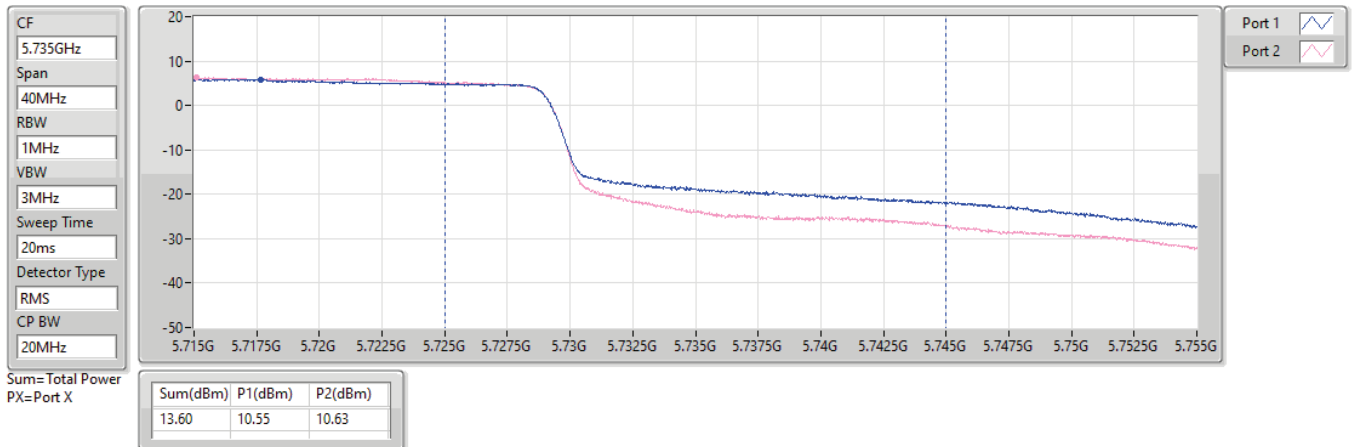


5.725-5.85GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

AV Power

5710MHz Straddle 5.725-5.85GHz_TX

09/10/2022

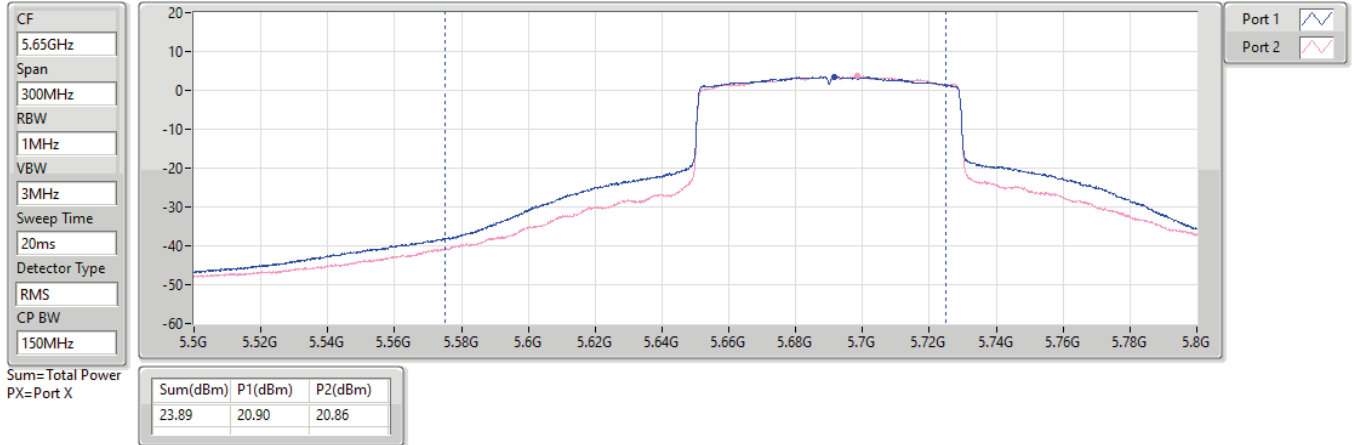


5.47-5.725GHz_802.11ax HEW80_Nss1,(MCS0)_2TX

AV Power

5690MHz Straddle 5.47-5.725GHz_TX

09/10/2022

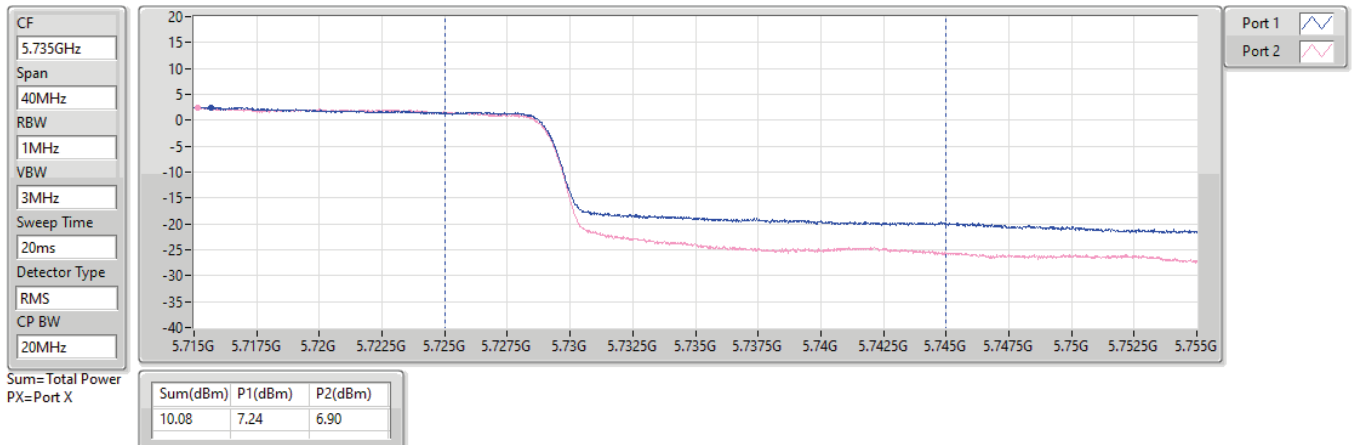


5.725-5.85GHz_802.11ax HEW80_Nss1,(MCS0)_2TX

AV Power

5690MHz Straddle 5.725-5.85GHz_TX

09/10/2022





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

Appendix B.2

Summary

Mode	Total Power (dBm)	Total Power (W)	EIRP (dBm)	EIRP (W)
5.25-5.35GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	22.20	0.16596	27.18	0.52240
802.11n HT20_Nss1,(MCS0)_2TX	22.42	0.17458	27.40	0.54954
802.11n HT40_Nss1,(MCS0)_2TX	23.53	0.22542	28.51	0.70958
802.11ac VHT20_Nss1,(MCS0)_2TX	22.47	0.17660	27.45	0.55590
802.11ac VHT40_Nss1,(MCS0)_2TX	23.59	0.22856	28.57	0.71945
802.11ac VHT80_Nss1,(MCS0)_2TX	21.13	0.12972	26.11	0.40832
802.11ax HEW20_Nss1,(MCS0)_2TX	22.55	0.17989	27.53	0.56624
802.11ax HEW40_Nss1,(MCS0)_2TX	23.68	0.23335	28.66	0.73451
802.11ax HEW80_Nss1,(MCS0)_2TX	21.22	0.13243	26.20	0.41687
5.47-5.725GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	22.61	0.18239	27.23	0.52845
802.11n HT20_Nss1,(MCS0)_2TX	22.56	0.18030	27.18	0.52240
802.11n HT40_Nss1,(MCS0)_2TX	23.51	0.22439	28.13	0.65013
802.11ac VHT20_Nss1,(MCS0)_2TX	22.64	0.18365	27.26	0.53211
802.11ac VHT40_Nss1,(MCS0)_2TX	23.62	0.23014	28.24	0.66681
802.11ac VHT80_Nss1,(MCS0)_2TX	23.66	0.23227	28.28	0.67298
802.11ac VHT160_Nss1,(MCS0)_2TX	21.00	0.12589	25.62	0.36475
802.11ax HEW20_Nss1,(MCS0)_2TX	22.73	0.18750	27.35	0.54325
802.11ax HEW40_Nss1,(MCS0)_2TX	23.70	0.23442	28.32	0.67920
802.11ax HEW80_Nss1,(MCS0)_2TX	23.75	0.23714	28.37	0.68707
802.11ax HEW160_Nss1,(MCS0)_2TX	21.11	0.12912	25.73	0.37411
5.725-5.85GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	15.38	0.03451	20.00	0.10000
802.11n HT20_Nss1,(MCS0)_2TX	15.41	0.03475	20.03	0.10069
802.11n HT40_Nss1,(MCS0)_2TX	12.24	0.01675	16.86	0.04853
802.11ac VHT20_Nss1,(MCS0)_2TX	15.64	0.03664	20.26	0.10617
802.11ac VHT40_Nss1,(MCS0)_2TX	12.30	0.01698	16.92	0.04920
802.11ac VHT80_Nss1,(MCS0)_2TX	8.82	0.00762	13.44	0.02208
802.11ax HEW20_Nss1,(MCS0)_2TX	16.67	0.04645	21.29	0.13459
802.11ax HEW40_Nss1,(MCS0)_2TX	13.14	0.02061	17.76	0.05970
802.11ax HEW80_Nss1,(MCS0)_2TX	9.74	0.00942	14.36	0.02729



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

Appendix B.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	-	-	-	-	-	-	-	-
5260MHz	Pass	4.98	18.88	19.09	22.00	23.98	26.98	30.00
5300MHz	Pass	4.98	19.53	18.82	22.20	23.98	27.18	30.00
5320MHz	Pass	4.98	19.04	19.15	22.11	23.98	27.09	30.00
5500MHz	Pass	4.62	20.01	19.14	22.61	23.98	27.23	30.00
5580MHz	Pass	4.62	19.23	19.45	22.35	23.98	26.97	30.00
5700MHz	Pass	4.62	17.35	17.30	20.34	23.98	24.96	30.00
5720MHz Straddle 5.47-5.725GHz	Pass	4.62	17.85	17.76	20.82	23.00	25.44	29.00
5720MHz Straddle 5.725-5.85GHz	Pass	4.62	12.36	12.38	15.38	30.00	20.00	36.00
802.11n HT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5260MHz	Pass	4.98	19.02	18.79	21.92	23.98	26.90	30.00
5300MHz	Pass	4.98	19.41	18.45	21.97	23.98	26.95	30.00
5320MHz	Pass	4.98	19.31	19.51	22.42	23.98	27.40	30.00
5500MHz	Pass	4.62	17.63	18.12	20.89	23.98	25.51	30.00
5580MHz	Pass	4.62	19.42	19.67	22.56	23.98	27.18	30.00
5700MHz	Pass	4.62	17.83	18.28	21.07	23.98	25.69	30.00
5720MHz Straddle 5.47-5.725GHz	Pass	4.62	17.07	17.53	20.32	23.00	24.94	29.00
5720MHz Straddle 5.725-5.85GHz	Pass	4.62	12.01	12.76	15.41	30.00	20.03	36.00
802.11n HT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5270MHz	Pass	4.98	20.78	20.24	23.53	23.98	28.51	30.00
5310MHz	Pass	4.98	19.21	18.35	21.81	23.98	26.79	30.00
5510MHz	Pass	4.62	16.89	17.68	20.31	23.98	24.93	30.00
5550MHz	Pass	4.62	20.31	20.69	23.51	23.98	28.13	30.00
5670MHz	Pass	4.62	16.99	17.14	20.08	23.98	24.70	30.00
5710MHz Straddle 5.47-5.725GHz	Pass	4.62	20.28	20.52	23.41	23.98	28.03	30.00
5710MHz Straddle 5.725-5.85GHz	Pass	4.62	8.79	9.63	12.24	30.00	16.86	36.00
802.11ac VHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5260MHz	Pass	4.98	19.07	18.89	21.99	23.98	26.97	30.00
5300MHz	Pass	4.98	19.46	18.54	22.03	23.98	27.01	30.00
5320MHz	Pass	4.98	19.45	19.47	22.47	23.98	27.45	30.00
5500MHz	Pass	4.62	17.73	18.19	20.98	23.98	25.60	30.00
5580MHz	Pass	4.62	19.52	19.73	22.64	23.98	27.26	30.00
5700MHz	Pass	4.62	17.90	18.34	21.14	23.98	25.76	30.00
5720MHz Straddle 5.47-5.725GHz	Pass	4.62	17.70	18.09	20.91	23.02	25.53	29.02
5720MHz Straddle 5.725-5.85GHz	Pass	4.62	12.13	13.08	15.64	30.00	20.26	36.00
802.11ac VHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5270MHz	Pass	4.98	20.84	20.30	23.59	23.98	28.57	30.00
5310MHz	Pass	4.98	19.29	18.42	21.89	23.98	26.87	30.00
5510MHz	Pass	4.62	16.97	17.74	20.38	23.98	25.00	30.00
5550MHz	Pass	4.62	20.36	20.78	23.59	23.98	28.21	30.00
5670MHz	Pass	4.62	17.04	17.21	20.14	23.98	24.76	30.00
5710MHz Straddle 5.47-5.725GHz	Pass	4.62	20.28	20.92	23.62	23.98	28.24	30.00
5710MHz Straddle 5.725-5.85GHz	Pass	4.62	8.86	9.68	12.30	30.00	16.92	36.00
802.11ac VHT80_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5290MHz	Pass	4.98	18.53	17.66	21.13	23.98	26.11	30.00
5530MHz	Pass	4.62	17.72	18.02	20.88	23.98	25.50	30.00
5610MHz	Pass	4.62	19.02	19.43	22.24	23.98	26.86	30.00
5690MHz Straddle 5.47-5.725GHz	Pass	4.62	20.46	20.83	23.66	23.98	28.28	30.00
5690MHz Straddle 5.725-5.85GHz	Pass	4.62	5.49	6.10	8.82	30.00	13.44	36.00
802.11ac VHT160_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5570MHz	Pass	4.62	17.82	18.16	21.00	23.98	25.62	30.00
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5260MHz	Pass	4.98	19.15	19.03	22.10	23.98	27.08	30.00
5300MHz	Pass	4.98	19.57	18.69	22.16	23.98	27.14	30.00
5320MHz	Pass	4.98	19.49	19.59	22.55	23.98	27.53	30.00



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

Appendix B.2

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
5500MHz	Pass	4.62	18.26	18.81	21.55	23.98	26.17	30.00
5580MHz	Pass	4.62	19.62	19.81	22.73	23.98	27.35	30.00
5700MHz	Pass	4.62	18.00	18.43	21.23	23.98	25.85	30.00
5720MHz Straddle 5.47-5.725GHz	Pass	4.62	17.81	18.23	21.04	23.53	25.66	29.53
5720MHz Straddle 5.725-5.85GHz	Pass	4.62	13.37	13.94	16.67	30.00	21.29	36.00
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5270MHz	Pass	4.98	20.89	20.43	23.68	23.98	28.66	30.00
5310MHz	Pass	4.98	19.35	18.49	21.95	23.98	26.93	30.00
5510MHz	Pass	4.62	17.05	17.84	20.47	23.98	25.09	30.00
5550MHz	Pass	4.62	20.45	20.83	23.65	23.98	28.27	30.00
5670MHz	Pass	4.62	17.13	17.33	20.24	23.98	24.86	30.00
5710MHz Straddle 5.47-5.725GHz	Pass	4.62	20.35	21.01	23.70	23.98	28.32	30.00
5710MHz Straddle 5.725-5.85GHz	Pass	4.62	9.73	10.49	13.14	30.00	17.76	36.00
802.11ax HEW80_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5290MHz	Pass	4.98	18.58	17.81	21.22	23.98	26.20	30.00
5530MHz	Pass	4.62	17.77	18.15	20.97	23.98	25.59	30.00
5610MHz	Pass	4.62	19.08	19.58	22.35	23.98	26.97	30.00
5690MHz Straddle 5.47-5.725GHz	Pass	4.62	20.60	20.88	23.75	23.98	28.37	30.00
5690MHz Straddle 5.725-5.85GHz	Pass	4.62	6.45	7.00	9.74	30.00	14.36	36.00
802.11ax HEW160_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5570MHz	Pass	4.62	17.90	18.30	21.11	23.98	25.73	30.00

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

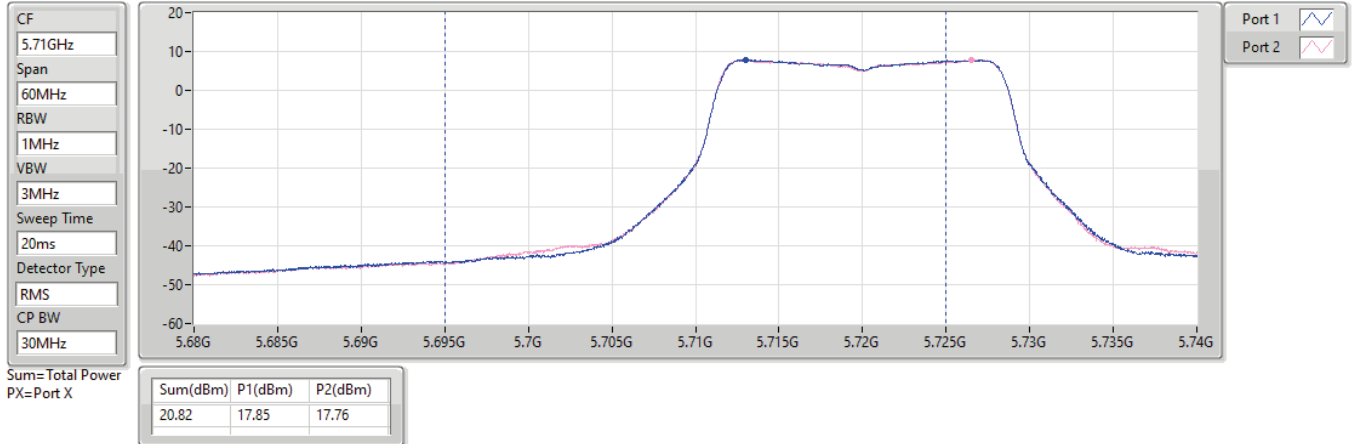


5.47-5.725GHz_802.11a_Nss1,(6Mbps)_2TX

AV Power

5720MHz Straddle 5.47-5.725GHz_TX

10/10/2022

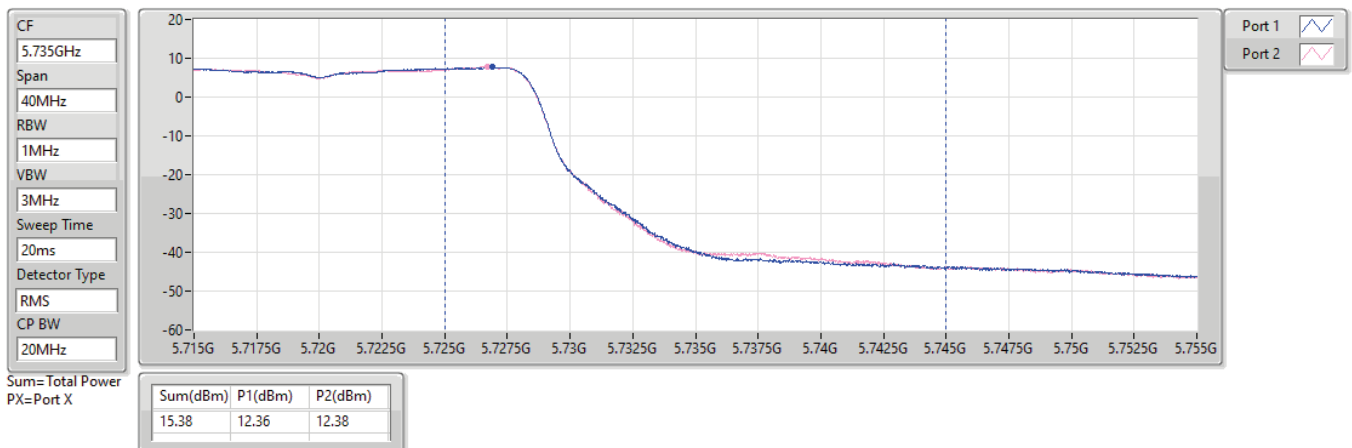


5.725-5.85GHz_802.11a_Nss1,(6Mbps)_2TX

AV Power

5720MHz Straddle 5.725-5.85GHz_TX

10/10/2022



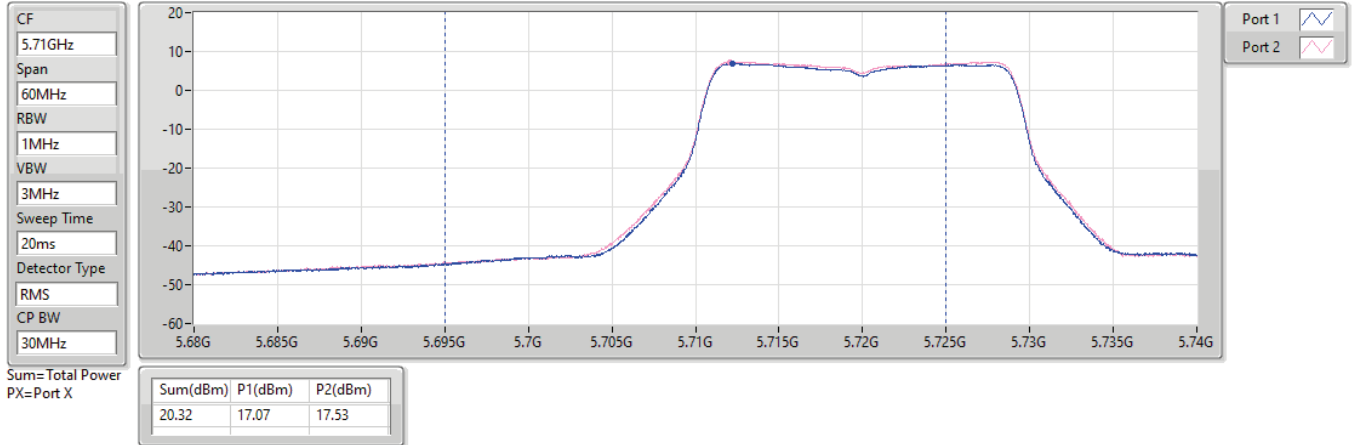


5.47-5.725GHz_802.11n HT20_Nss1,(MCS0)_2TX

AV Power

5720MHz Straddle 5.47-5.725GHz_TX

11/10/2022

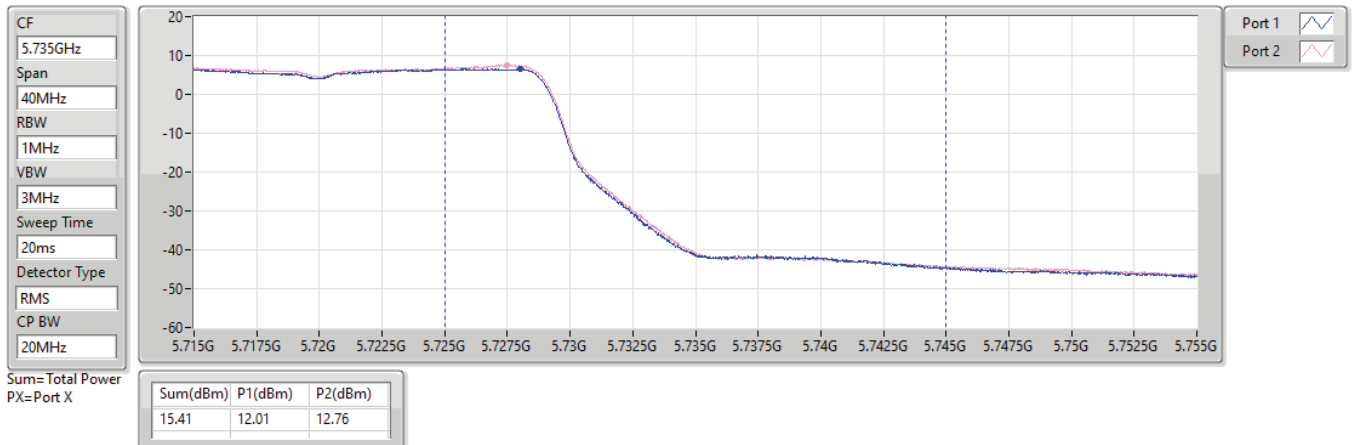


5.725-5.85GHz_802.11n HT20_Nss1,(MCS0)_2TX

AV Power

5720MHz Straddle 5.725-5.85GHz_TX

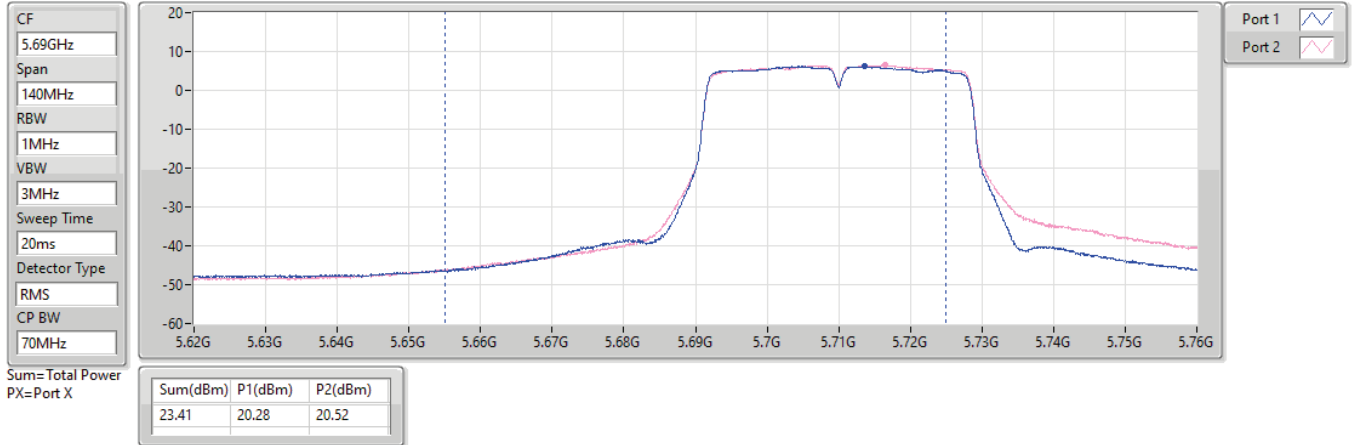
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5710MHz Straddle 5.47-5.725GHz_TX**

AV Power

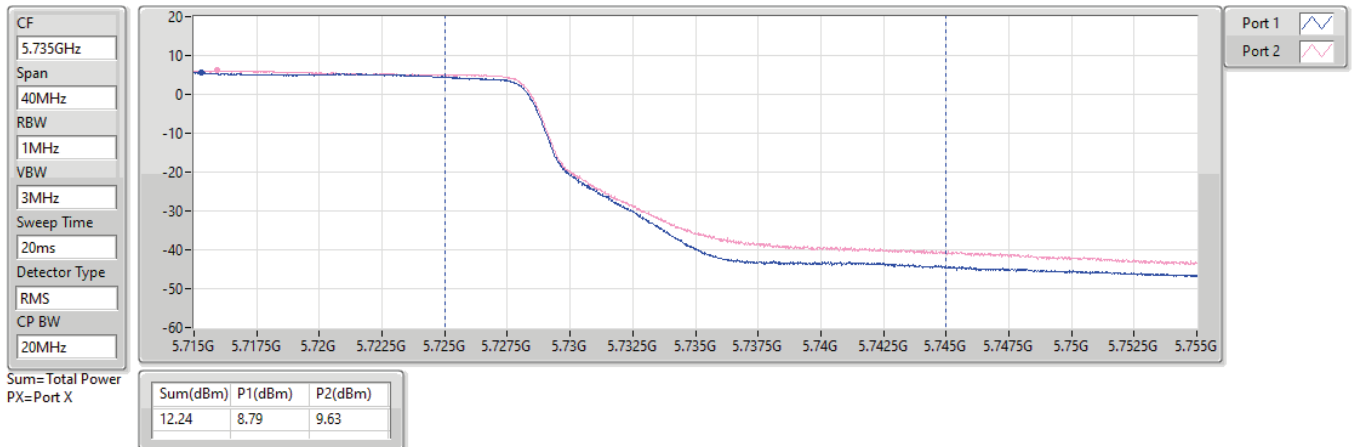
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**5.725-5.85GHz_802.11n HT40_Nss1,(MCS0)_2TX
5710MHz Straddle 5.725-5.85GHz_TX**

AV Power

19/10/2022



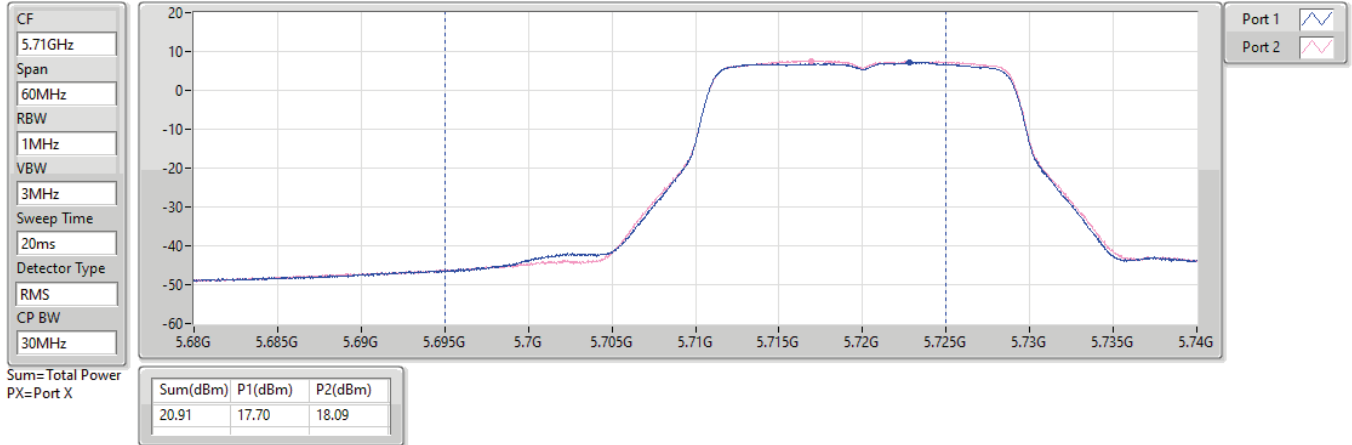


5.47-5.725GHz_802.11ac VHT20_Nss1,(MCS0)_2TX

AV Power

5720MHz Straddle 5.47-5.725GHz_TX

19/10/2022

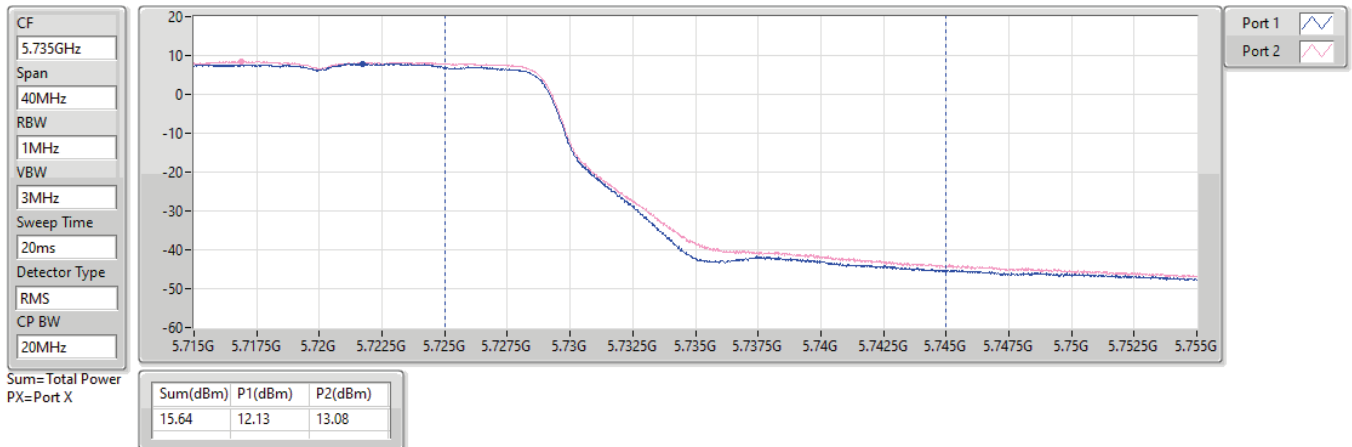


5.725-5.85GHz_802.11ac VHT20_Nss1,(MCS0)_2TX

AV Power

5720MHz Straddle 5.725-5.85GHz_TX

19/10/2022



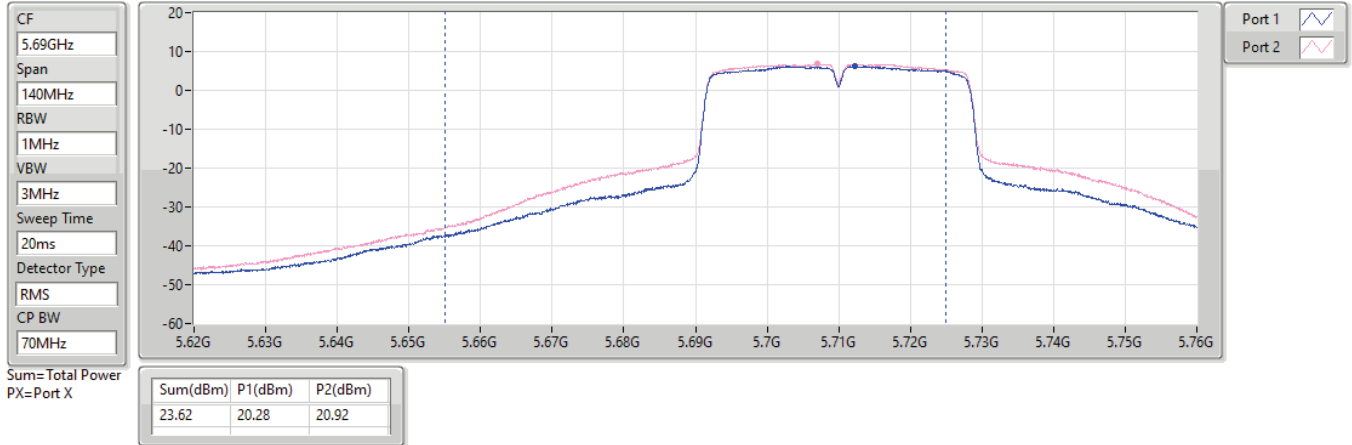


5.47-5.725GHz_802.11ac VHT40_Nss1,(MCS0)_2TX

AV Power

5710MHz Straddle 5.47-5.725GHz_TX

11/10/2022

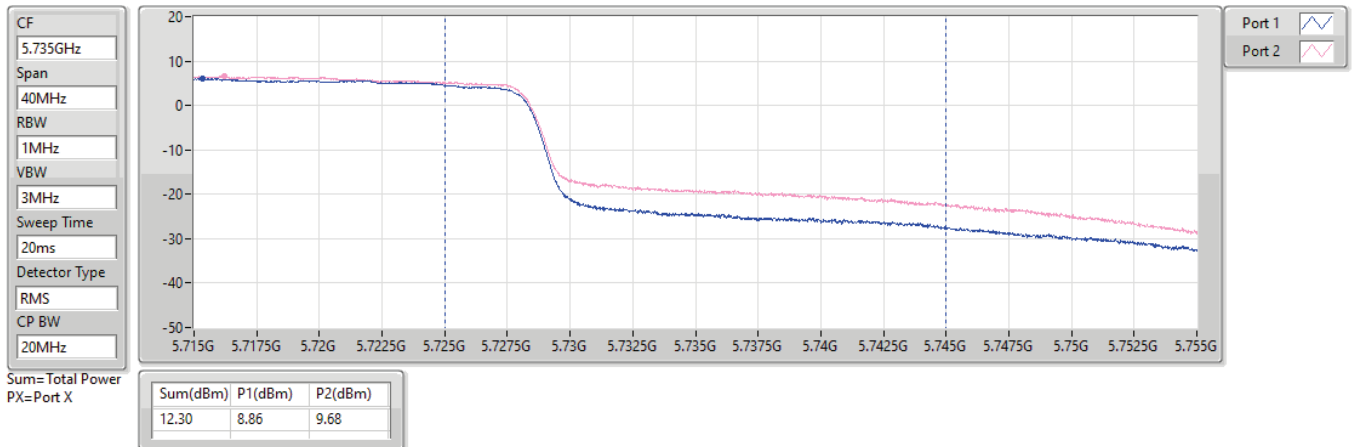


5.725-5.85GHz_802.11ac VHT40_Nss1,(MCS0)_2TX

AV Power

5710MHz Straddle 5.725-5.85GHz_TX

11/10/2022

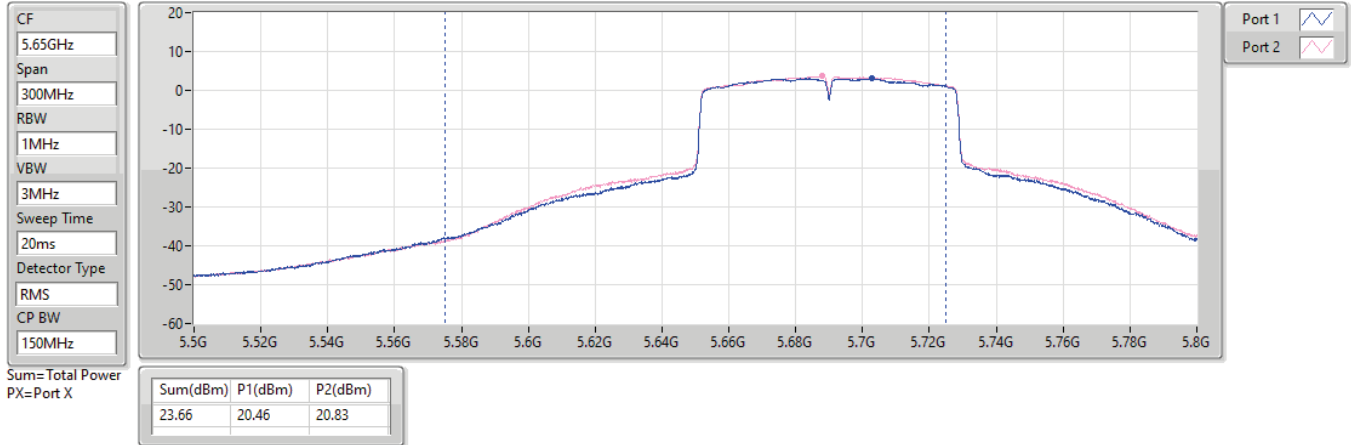


5.47-5.725GHz_802.11ac VHT80_Nss1,(MCS0)_2TX

AV Power

5690MHz Straddle 5.47-5.725GHz_TX

11/10/2022

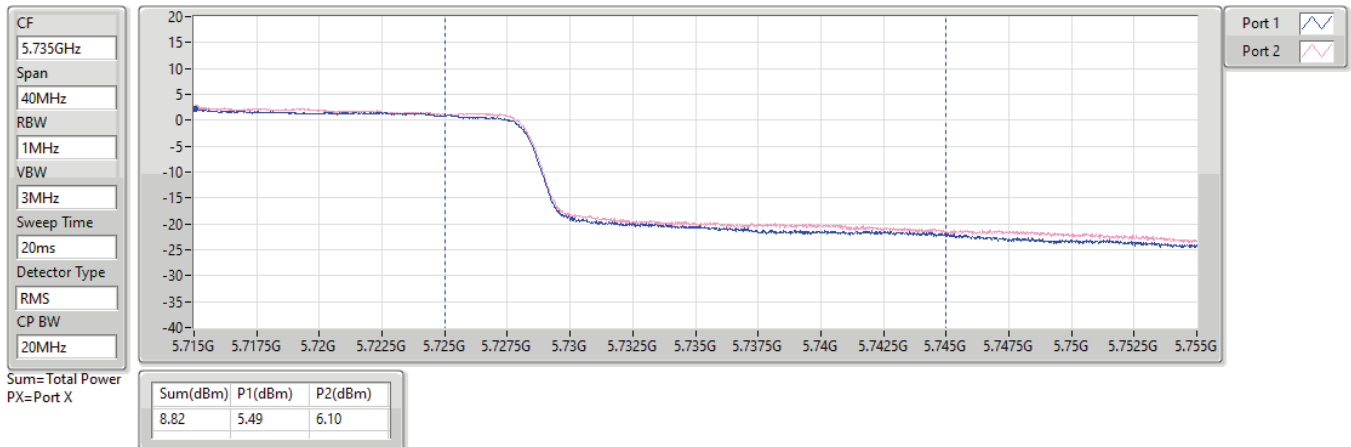


5.725-5.85GHz_802.11ac VHT80_Nss1,(MCS0)_2TX

AV Power

5690MHz Straddle 5.725-5.85GHz_TX

11/10/2022



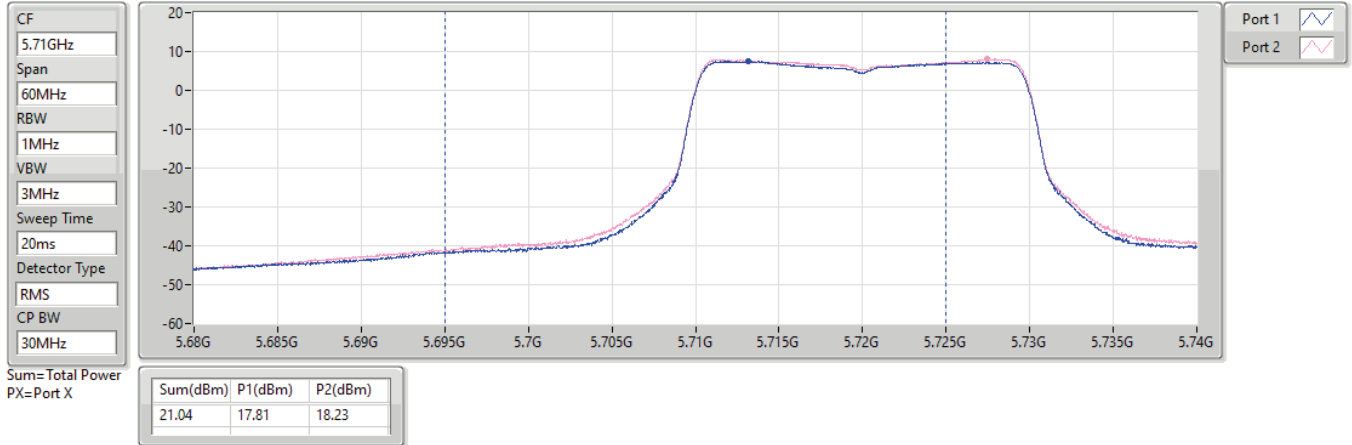


5.47-5.725GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

AV Power

5720MHz Straddle 5.47-5.725GHz_TX

11/10/2022

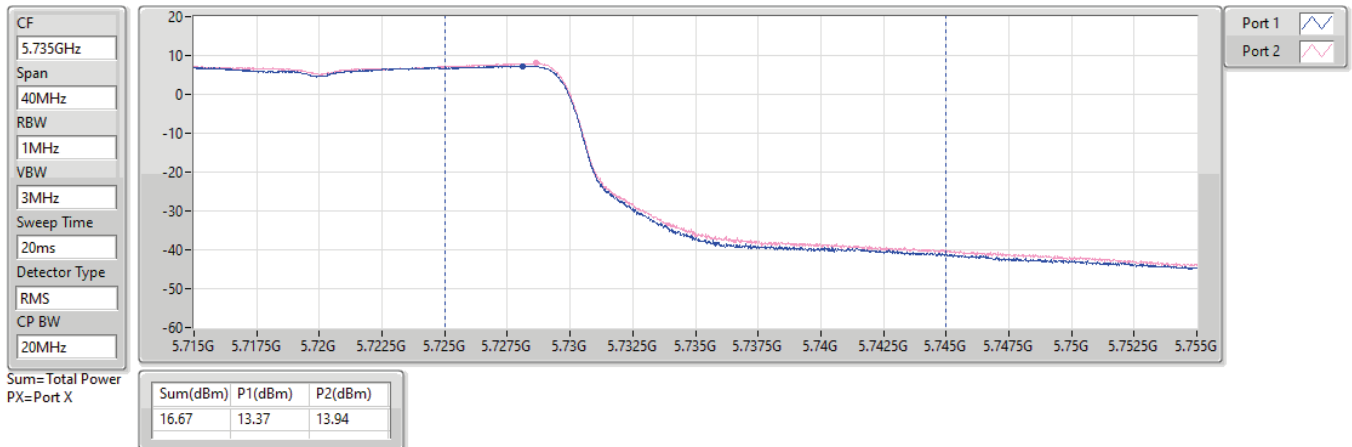


5.725-5.85GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

AV Power

5720MHz Straddle 5.725-5.85GHz_TX

11/10/2022

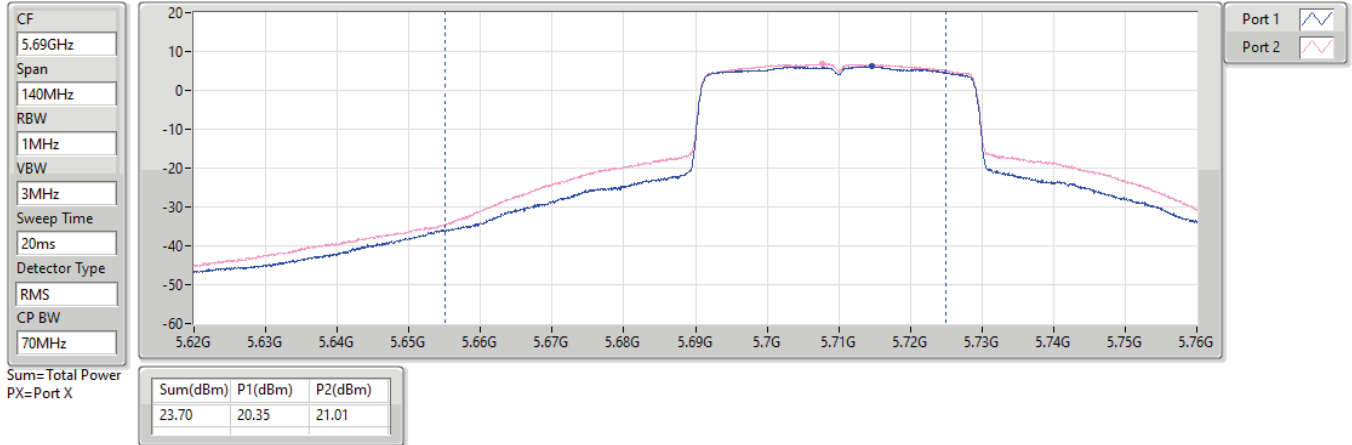


5.47-5.725GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

AV Power

5710MHz Straddle 5.47-5.725GHz_TX

11/10/2022

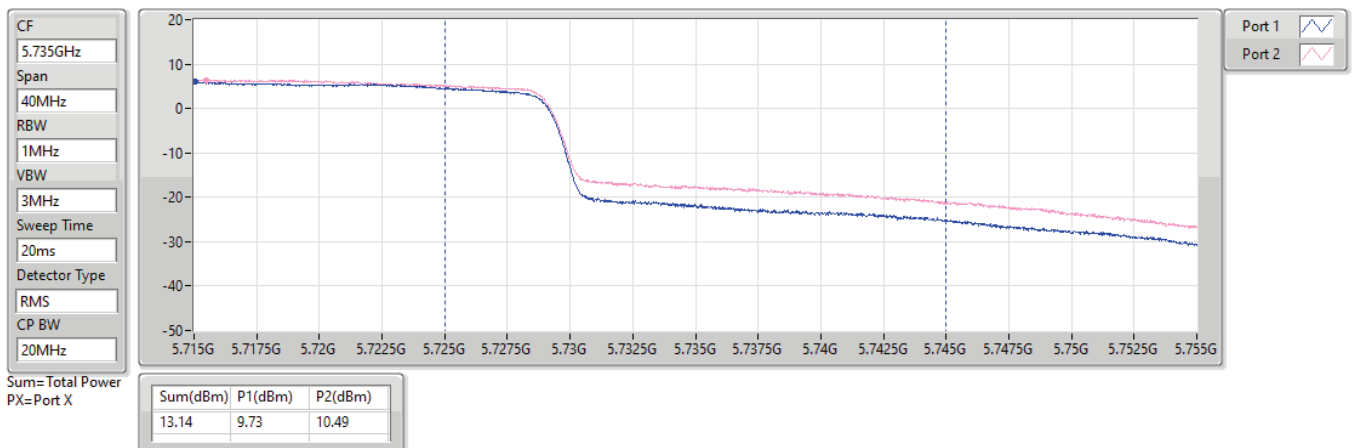


5.725-5.85GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

AV Power

5710MHz Straddle 5.725-5.85GHz_TX

11/10/2022



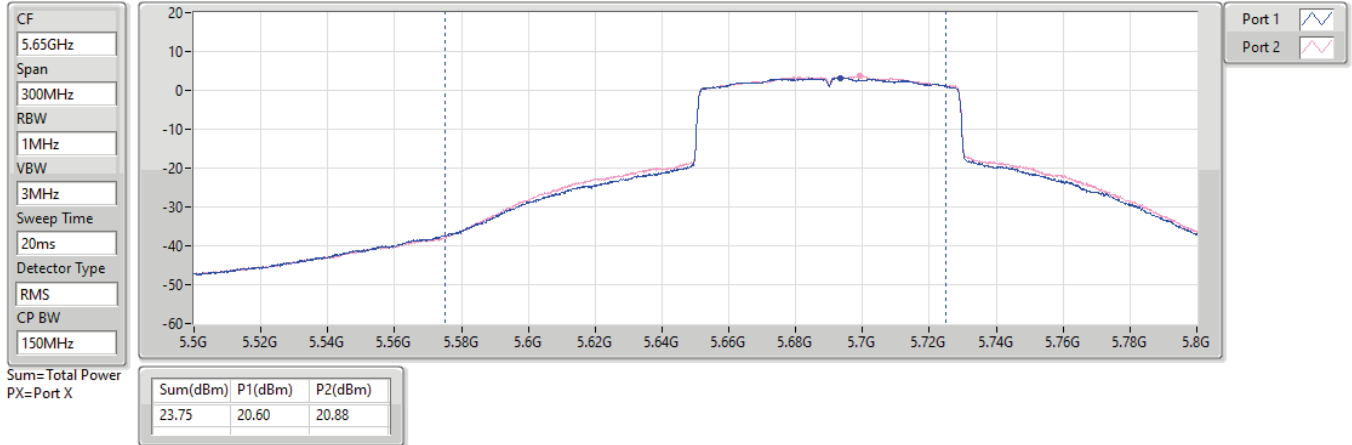


5.47-5.725GHz_802.11ax HEW80_Nss1,(MCS0)_2TX

AV Power

5690MHz Straddle 5.47-5.725GHz_TX

11/10/2022

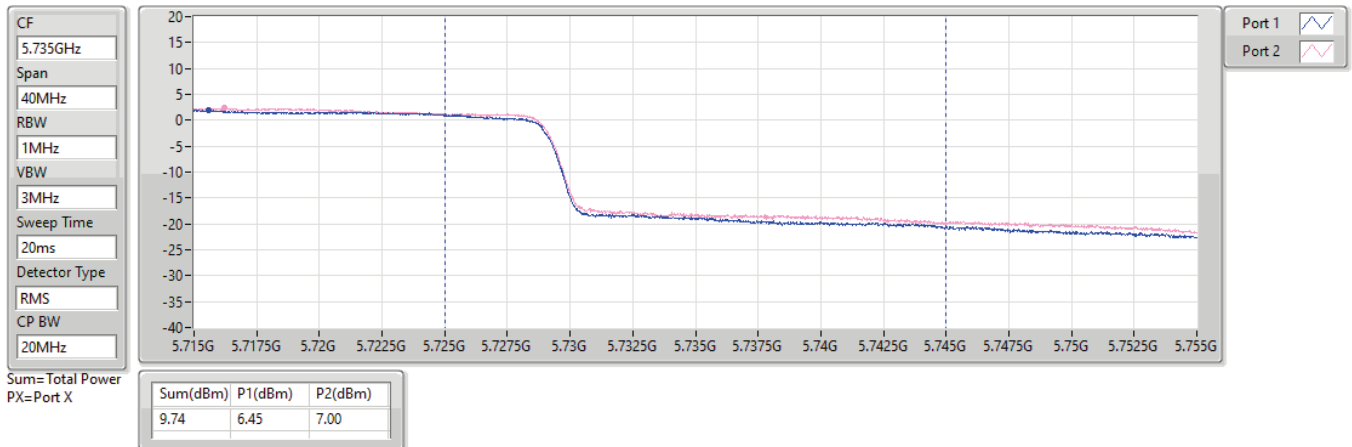


5.725-5.85GHz_802.11ax HEW80_Nss1,(MCS0)_2TX

AV Power

5690MHz Straddle 5.725-5.85GHz_TX

11/10/2022



Summary

Mode	Total Power (dBm)	Total Power (W)	EIRP (dBm)	EIRP (W)
5.15-5.25GHz	-	-	-	-
802.11ac VHT160_Nss1,(MCS0)_2TX	15.68	0.03698	20.30	0.10715
802.11ax HEW160_Nss1,(MCS0)_2TX	15.90	0.03890	20.52	0.11272
5.25-5.35GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	22.71	0.18664	27.33	0.54075
802.11n HT20_Nss1,(MCS0)_2TX	22.50	0.17783	27.12	0.51523
802.11n HT40_Nss1,(MCS0)_2TX	23.66	0.23227	28.28	0.67298
802.11ac VHT20_Nss1,(MCS0)_2TX	22.52	0.17865	27.14	0.51761
802.11ac VHT40_Nss1,(MCS0)_2TX	23.70	0.23442	28.32	0.67920
802.11ac VHT80_Nss1,(MCS0)_2TX	18.02	0.06339	22.64	0.18365
802.11ac VHT160_Nss1,(MCS0)_2TX	14.78	0.03006	19.40	0.08710
802.11ax HEW20_Nss1,(MCS0)_2TX	23.02	0.20045	27.64	0.58076
802.11ax HEW40_Nss1,(MCS0)_2TX	23.77	0.23823	28.39	0.69024
802.11ax HEW80_Nss1,(MCS0)_2TX	18.40	0.06918	23.02	0.20045
802.11ax HEW160_Nss1,(MCS0)_2TX	15.04	0.03192	19.66	0.09247
5.47-5.725GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	23.06	0.20230	27.68	0.58614
802.11n HT20_Nss1,(MCS0)_2TX	22.82	0.19143	27.44	0.55463
802.11n HT40_Nss1,(MCS0)_2TX	23.81	0.24044	28.43	0.69663
802.11ac VHT20_Nss1,(MCS0)_2TX	22.84	0.19231	27.46	0.55719
802.11ac VHT40_Nss1,(MCS0)_2TX	23.85	0.24266	28.47	0.70307
802.11ac VHT80_Nss1,(MCS0)_2TX	23.49	0.22336	28.11	0.64714
802.11ac VHT160_Nss1,(MCS0)_2TX	20.65	0.11614	25.27	0.33651
802.11ax HEW20_Nss1,(MCS0)_2TX	23.41	0.21928	28.03	0.63533
802.11ax HEW40_Nss1,(MCS0)_2TX	23.95	0.24831	28.57	0.71945
802.11ax HEW80_Nss1,(MCS0)_2TX	23.66	0.23227	28.28	0.67298
802.11ax HEW160_Nss1,(MCS0)_2TX	20.98	0.12531	25.60	0.36308
5.725-5.85GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	15.33	0.03412	19.95	0.09886
802.11n HT20_Nss1,(MCS0)_2TX	16.16	0.04130	20.78	0.11967
802.11n HT40_Nss1,(MCS0)_2TX	12.42	0.01746	17.04	0.05058
802.11ac VHT20_Nss1,(MCS0)_2TX	16.03	0.04009	20.65	0.11614
802.11ac VHT40_Nss1,(MCS0)_2TX	12.42	0.01746	17.04	0.05058
802.11ac VHT80_Nss1,(MCS0)_2TX	8.16	0.00655	12.78	0.01897
802.11ax HEW20_Nss1,(MCS0)_2TX	16.53	0.04498	21.15	0.13032
802.11ax HEW40_Nss1,(MCS0)_2TX	12.78	0.01897	17.40	0.05495
802.11ax HEW80_Nss1,(MCS0)_2TX	9.21	0.00834	13.83	0.02415

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	-	-	-	-	-	-	-	-
5260MHz	Pass	4.62	19.5	19.9	22.71	23.98	27.33	30.00
5300MHz	Pass	4.62	19.55	19.57	22.57	23.98	27.19	30.00
5320MHz	Pass	4.62	19.48	19.6	22.55	23.95	27.17	29.95
5500MHz	Pass	4.62	20.32	19.77	23.06	23.98	27.68	30.00
5580MHz	Pass	4.62	19.12	20.01	22.60	23.98	27.22	30.00
5700MHz	Pass	4.62	18.82	19.67	22.28	23.98	26.90	30.00
5720MHz Straddle 5.47-5.725GHz	Pass	4.62	17.31	18.11	20.74	22.84	25.36	28.84
5720MHz Straddle 5.725-5.85GHz	Pass	4.62	11.87	12.72	15.33	30.00	19.95	36.00
802.11n HT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5260MHz	Pass	4.62	19.26	19.71	22.50	23.98	27.12	30.00
5300MHz	Pass	4.62	19.3	19.62	22.47	23.98	27.09	30.00
5320MHz	Pass	4.62	18.95	19.24	22.11	23.98	26.73	30.00
5500MHz	Pass	4.62	17.03	17.89	20.49	23.98	25.11	30.00
5580MHz	Pass	4.62	19.41	20.18	22.82	23.98	27.44	30.00
5700MHz	Pass	4.62	17.96	19.08	21.57	23.98	26.19	30.00
5720MHz Straddle 5.47-5.725GHz	Pass	4.62	17.83	18.4	21.13	22.96	25.75	28.96
5720MHz Straddle 5.725-5.85GHz	Pass	4.62	12.58	13.65	16.16	30.00	20.78	36.00
802.11n HT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5270MHz	Pass	4.62	20.61	20.68	23.66	23.98	28.28	30.00
5310MHz	Pass	4.62	18.07	18.79	21.46	23.98	26.08	30.00
5510MHz	Pass	4.62	16.80	17.70	20.28	23.98	24.90	30.00
5550MHz	Pass	4.62	20.54	21.02	23.80	23.98	28.42	30.00
5670MHz	Pass	4.62	18.05	18.9	21.51	23.98	26.13	30.00
5710MHz Straddle 5.47-5.725GHz	Pass	4.62	20.43	21.14	23.81	23.98	28.43	30.00
5710MHz Straddle 5.725-5.85GHz	Pass	4.62	8.94	9.83	12.42	30.00	17.04	36.00
802.11ac VHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5260MHz	Pass	4.62	19.25	19.74	22.51	23.98	27.13	30.00
5300MHz	Pass	4.62	19.4	19.62	22.52	23.98	27.14	30.00
5320MHz	Pass	4.62	18.85	19.37	22.13	23.98	26.75	30.00
5500MHz	Pass	4.62	17.10	17.84	20.50	23.98	25.12	30.00
5580MHz	Pass	4.62	19.39	20.22	22.84	23.98	27.46	30.00
5700MHz	Pass	4.62	18	19.08	21.58	23.98	26.20	30.00
5720MHz Straddle 5.47-5.725GHz	Pass	4.62	17.58	18.4	21.02	22.99	25.64	28.99
5720MHz Straddle 5.725-5.85GHz	Pass	4.62	12.47	13.51	16.03	30.00	20.65	36.00
802.11ac VHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5270MHz	Pass	4.62	20.63	20.74	23.70	23.98	28.32	30.00
5310MHz	Pass	4.62	18.16	18.79	21.50	23.98	26.12	30.00
5510MHz	Pass	4.62	16.91	17.67	20.32	23.98	24.94	30.00
5550MHz	Pass	4.62	20.58	21.07	23.84	23.98	28.46	30.00
5670MHz	Pass	4.62	18.12	18.92	21.55	23.98	26.17	30.00
5710MHz Straddle 5.47-5.725GHz	Pass	4.62	20.43	21.21	23.85	23.98	28.47	30.00
5710MHz Straddle 5.725-5.85GHz	Pass	4.62	8.91	9.85	12.42	30.00	17.04	36.00
802.11ac VHT80_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5290MHz	Pass	4.62	14.63	15.36	18.02	23.98	22.64	30.00
5530MHz	Pass	4.62	17.66	18.56	21.14	23.98	25.76	30.00
5610MHz	Pass	4.62	18.76	19.68	22.25	23.98	26.87	30.00
5690MHz Straddle 5.47-5.725GHz	Pass	4.62	20.1	20.83	23.49	23.98	28.11	30.00
5690MHz Straddle 5.725-5.85GHz	Pass	4.62	4.58	5.66	8.16	30.00	12.78	36.00
802.11ac VHT160_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	4.62	12.14	13.14	15.68	30.00	20.30	36.00
5250MHz Straddle 5.25-5.35GHz	Pass	4.62	11.25	12.23	14.78	23.98	19.40	30.00
5570MHz	Pass	4.62	17.13	18.09	20.65	23.98	25.27	30.00
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5260MHz	Pass	4.62	19.85	20.17	23.02	23.98	27.64	30.00



Average Power_Non-Beamforming_Radio3

Appendix B.3

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
5300MHz	Pass	4.62	19.76	20.07	22.93	23.98	27.55	30.00
5320MHz	Pass	4.62	19.57	19.73	22.66	23.98	27.28	30.00
5500MHz	Pass	4.62	17.58	18.38	21.01	23.98	25.63	30.00
5580MHz	Pass	4.62	20.06	20.71	23.41	23.98	28.03	30.00
5700MHz	Pass	4.62	18.63	19.67	22.19	23.98	26.81	30.00
5720MHz Straddle 5.47-5.725GHz	Pass	4.62	17.8	18.48	21.16	23.07	25.78	29.07
5720MHz Straddle 5.725-5.85GHz	Pass	4.62	13.09	13.91	16.53	30.00	21.15	36.00
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5270MHz	Pass	4.62	20.77	20.74	23.77	23.98	28.39	30.00
5310MHz	Pass	4.62	18.34	18.87	21.62	23.98	26.24	30.00
5510MHz	Pass	4.62	17.04	17.86	20.48	23.98	25.10	30.00
5550MHz	Pass	4.62	20.67	21.13	23.92	23.98	28.54	30.00
5670MHz	Pass	4.62	18.37	18.97	21.69	23.98	26.31	30.00
5710MHz Straddle 5.47-5.725GHz	Pass	4.62	20.57	21.28	23.95	23.98	28.57	30.00
5710MHz Straddle 5.725-5.85GHz	Pass	4.62	9.27	10.22	12.78	30.00	17.40	36.00
802.11ax HEW80_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5290MHz	Pass	4.62	15.02	15.73	18.40	23.98	23.02	30.00
5530MHz	Pass	4.62	17.94	18.82	21.41	23.98	26.03	30.00
5610MHz	Pass	4.62	19.14	20.07	22.64	23.98	27.26	30.00
5690MHz Straddle 5.47-5.725GHz	Pass	4.62	20.23	21.03	23.66	23.98	28.28	30.00
5690MHz Straddle 5.725-5.85GHz	Pass	4.62	5.59	6.73	9.21	30.00	13.83	36.00
802.11ax HEW160_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	4.62	12.43	13.3	15.90	30.00	20.52	36.00
5250MHz Straddle 5.25-5.35GHz	Pass	4.62	11.46	12.54	15.04	23.98	19.66	30.00
5570MHz	Pass	4.62	17.5	18.4	20.98	23.98	25.60	30.00

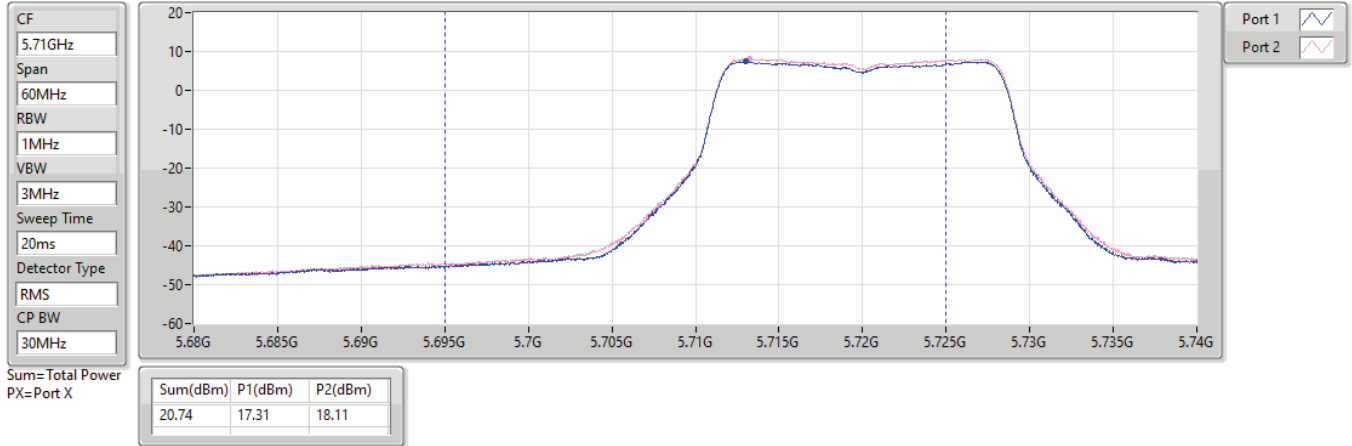
DG = Directional Gain; Port X = Port X output power

5.47-5.725GHz_802.11a_Nss1,(6Mbps)_2TX

AV Power

5720MHz Straddle 5.47-5.725GHz_TX

11/10/2022

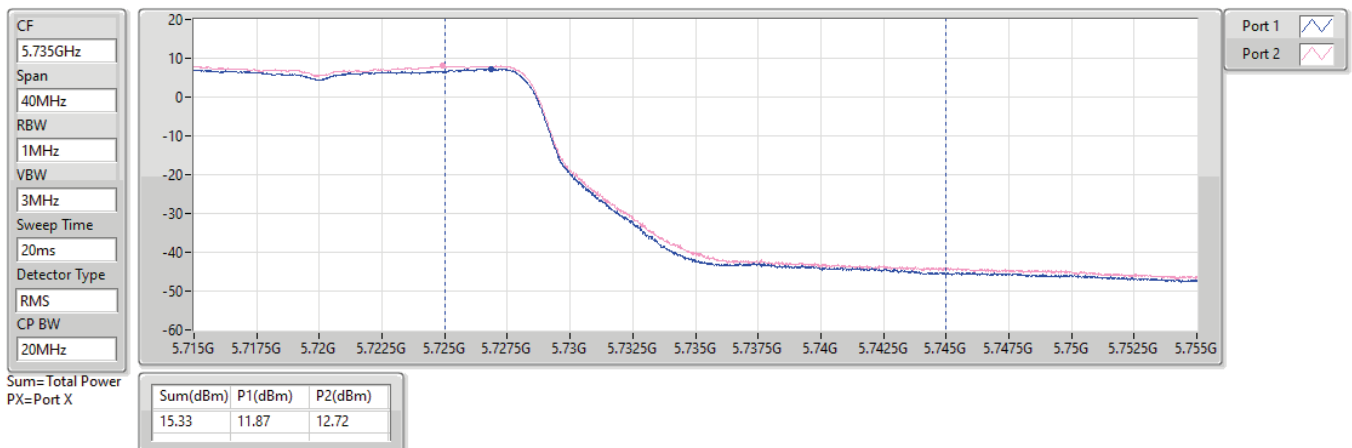


5.725-5.85GHz_802.11a_Nss1,(6Mbps)_2TX

AV Power

5720MHz Straddle 5.725-5.85GHz_TX

11/10/2022

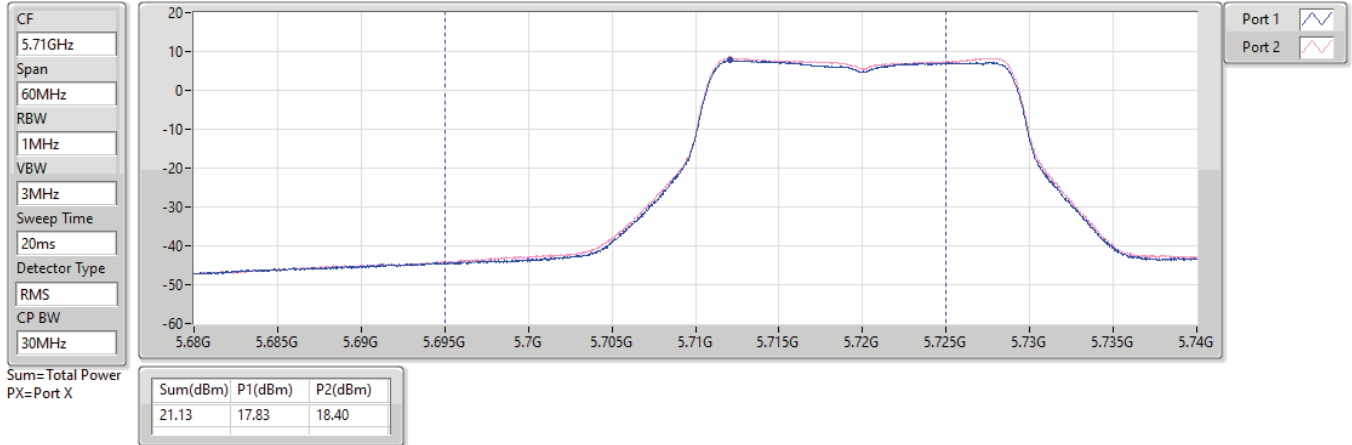


5.47-5.725GHz_802.11n HT20_Nss1,(MCS0)_2TX

AV Power

5720MHz Straddle 5.47-5.725GHz_TX

11/10/2022

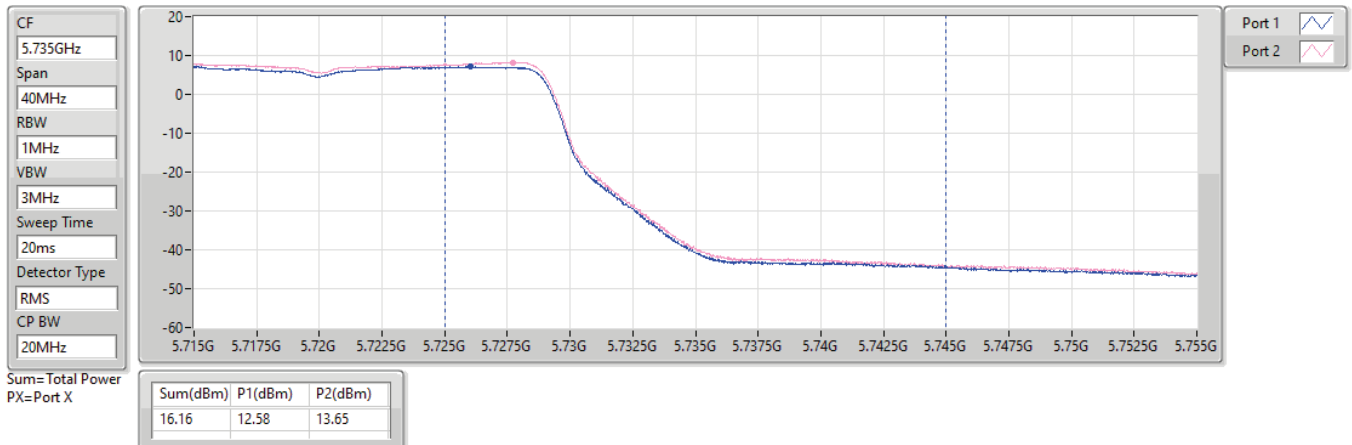


5.725-5.85GHz_802.11n HT20_Nss1,(MCS0)_2TX

AV Power

5720MHz Straddle 5.725-5.85GHz_TX

11/10/2022

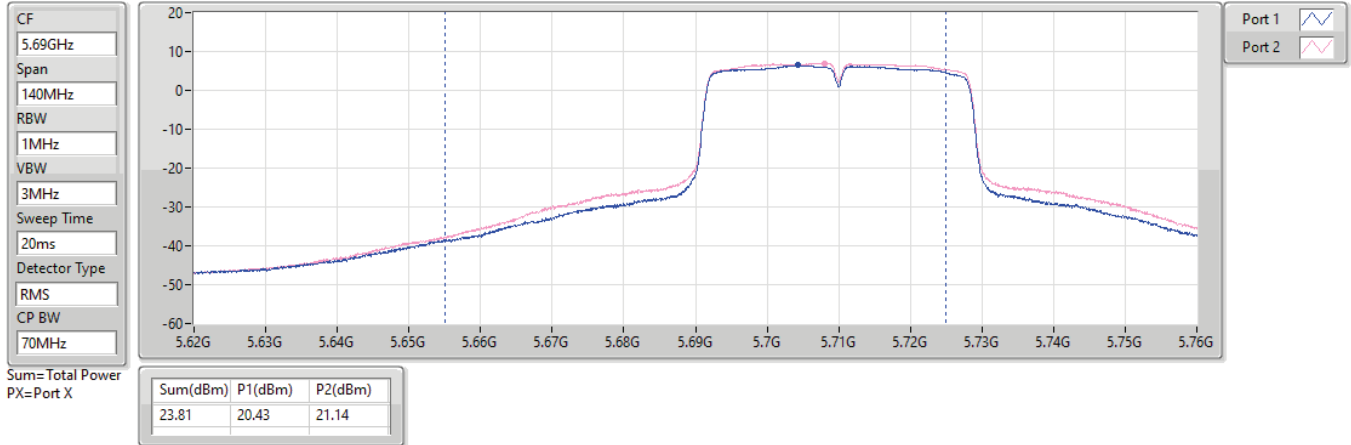


5.47-5.725GHz_802.11n HT40_Nss1,(MCS0)_2TX

AV Power

5710MHz Straddle 5.47-5.725GHz_TX

11/10/2022

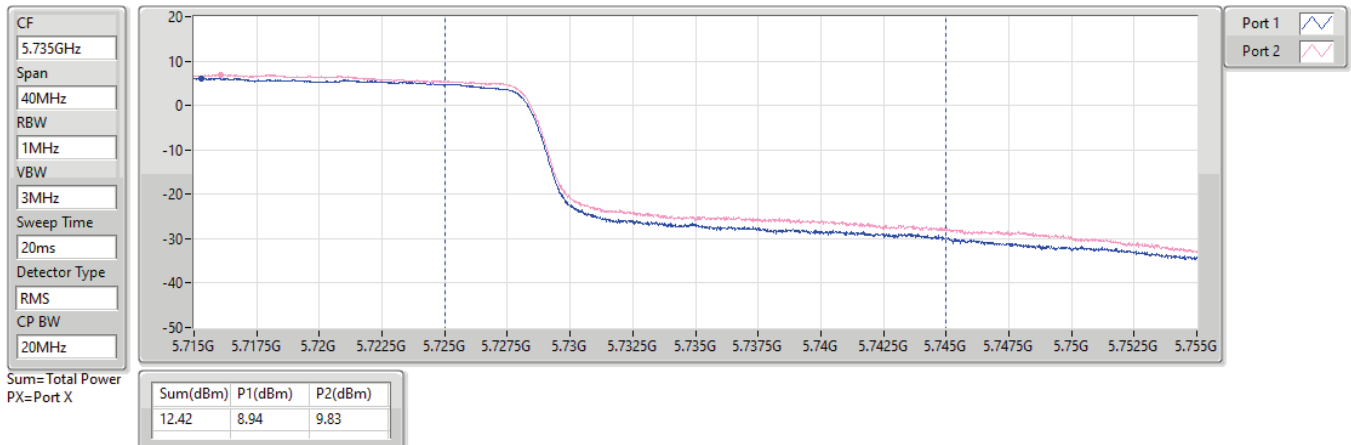


5.725-5.85GHz_802.11n HT40_Nss1,(MCS0)_2TX

AV Power

5710MHz Straddle 5.725-5.85GHz_TX

11/10/2022

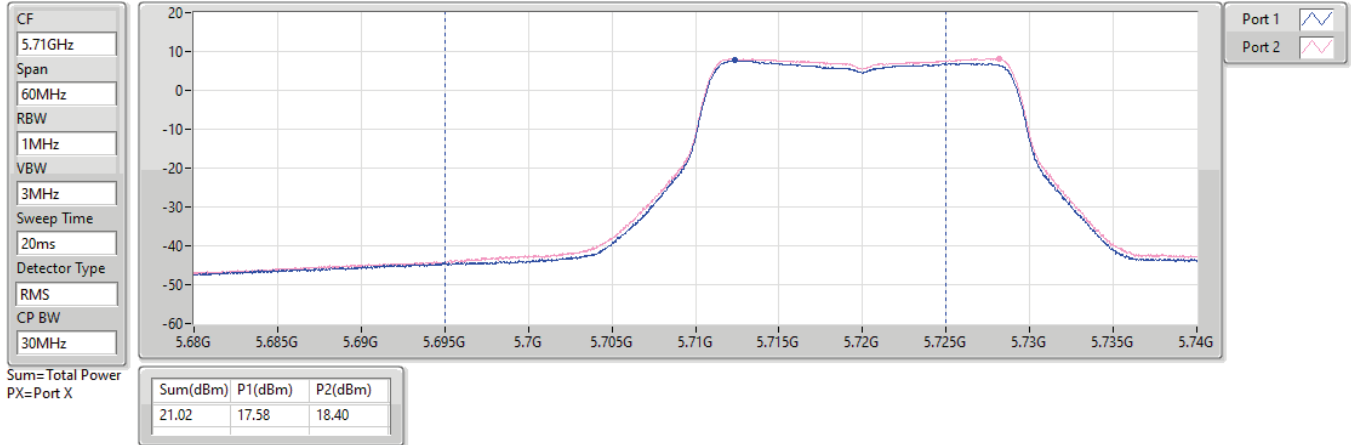


5.47-5.725GHz_802.11ac VHT20_Nss1,(MCS0)_2TX

AV Power

5720MHz Straddle 5.47-5.725GHz_TX

11/10/2022

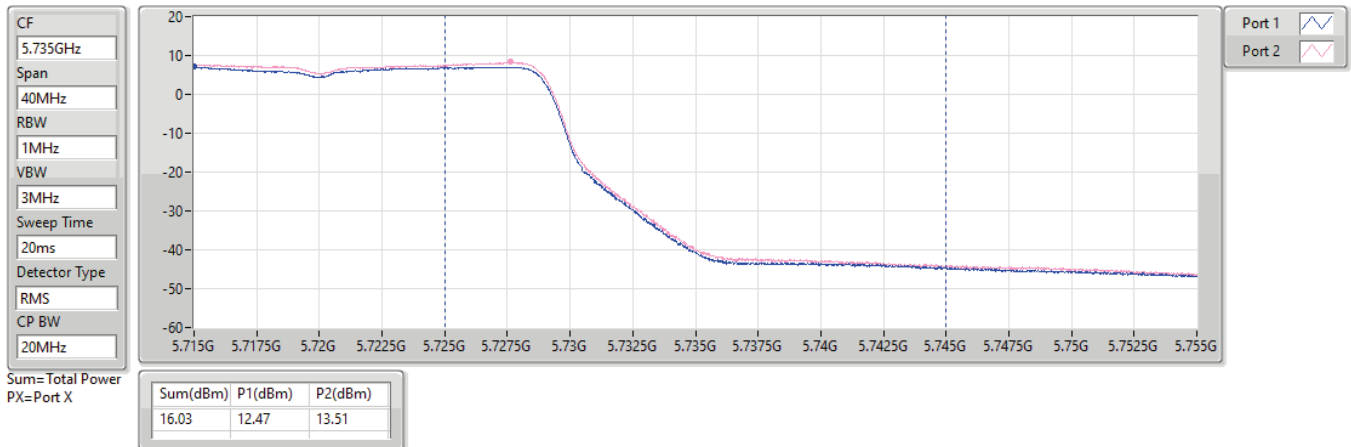


5.725-5.85GHz_802.11ac VHT20_Nss1,(MCS0)_2TX

AV Power

5720MHz Straddle 5.725-5.85GHz_TX

11/10/2022

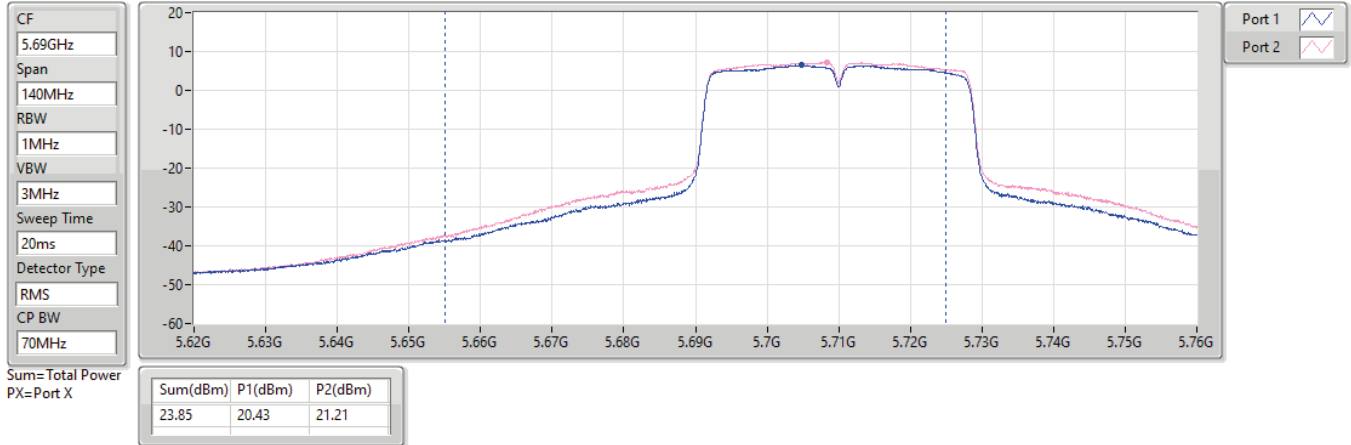


5.47-5.725GHz_802.11ac VHT40_Nss1,(MCS0)_2TX

AV Power

5710MHz Straddle 5.47-5.725GHz_TX

11/10/2022

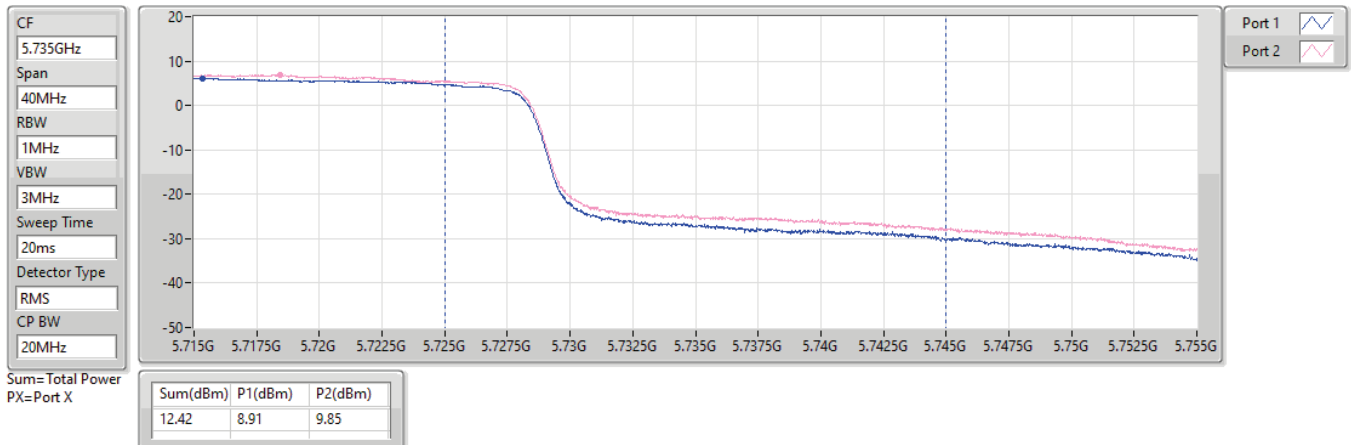


5.725-5.85GHz_802.11ac VHT40_Nss1,(MCS0)_2TX

AV Power

5710MHz Straddle 5.725-5.85GHz_TX

11/10/2022

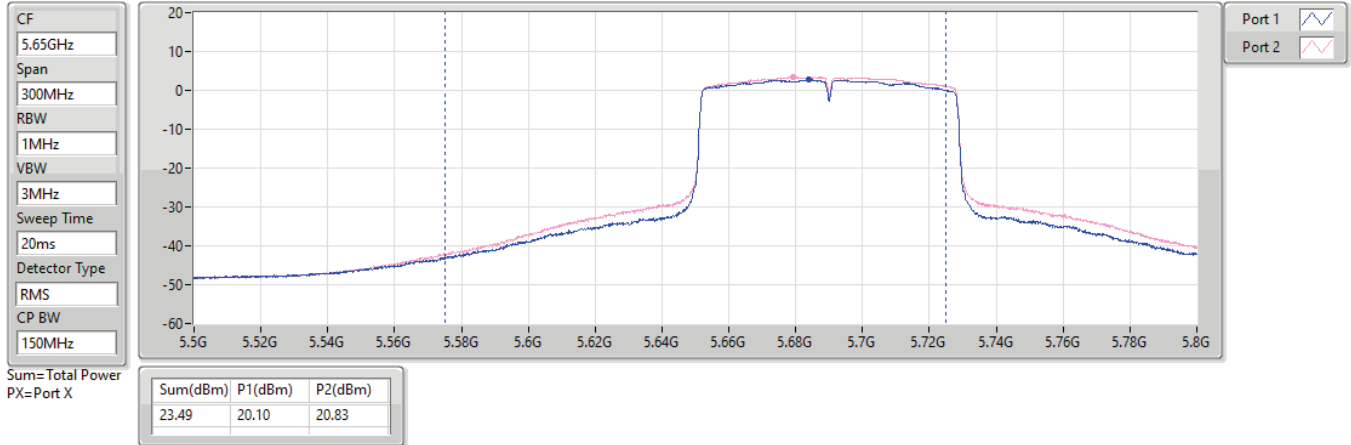


5.47-5.725GHz_802.11ac VHT80_Nss1,(MCS0)_2TX

AV Power

5690MHz Straddle 5.47-5.725GHz_TX

11/10/2022

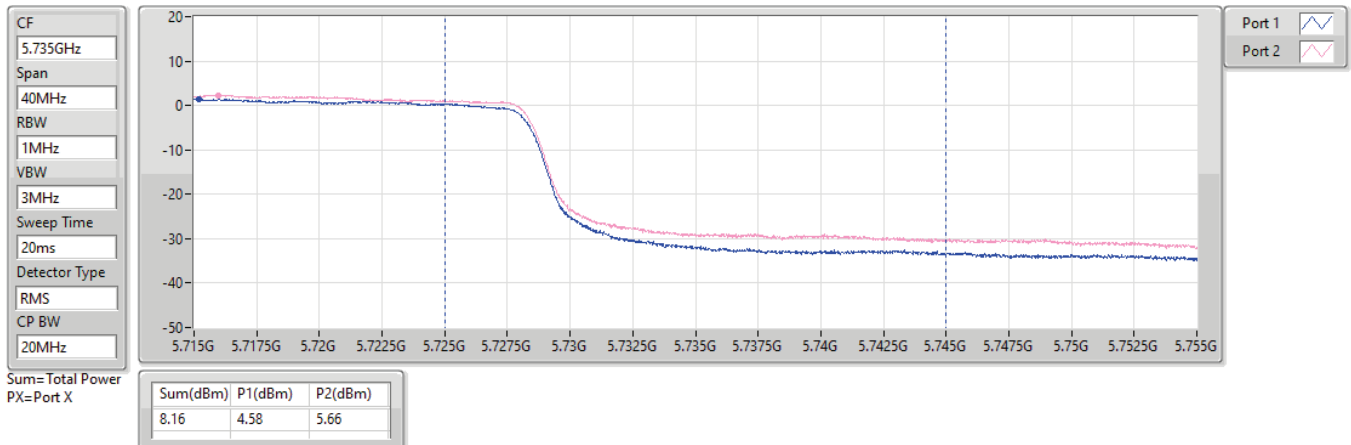


5.725-5.85GHz_802.11ac VHT80_Nss1,(MCS0)_2TX

AV Power

5690MHz Straddle 5.725-5.85GHz_TX

11/10/2022

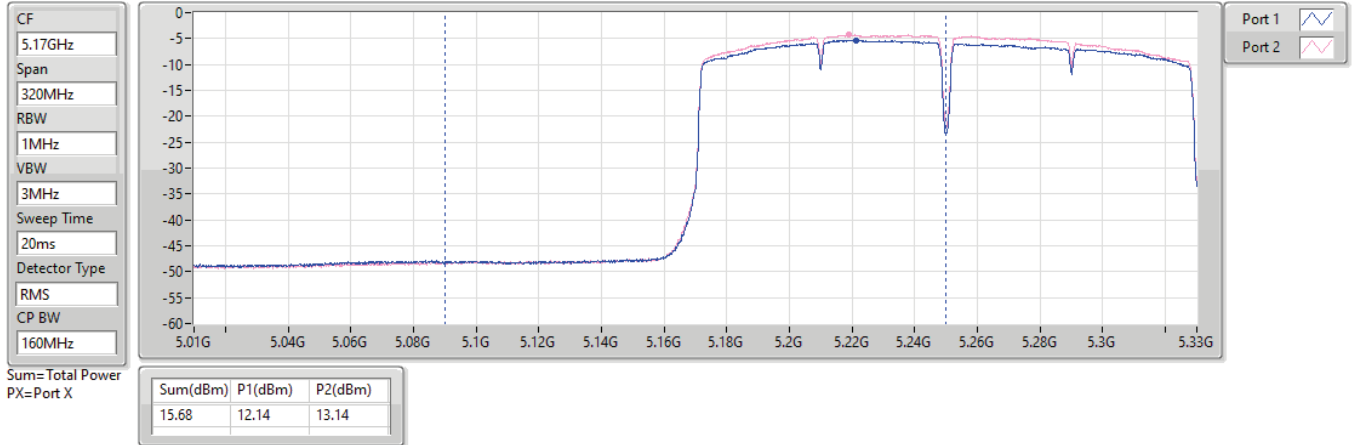


5.15-5.25GHz_802.11ac VHT160_Nss1,(MCS0)_2TX

AV Power

5250MHz Straddle 5.15-5.25GHz_TX

11/10/2022

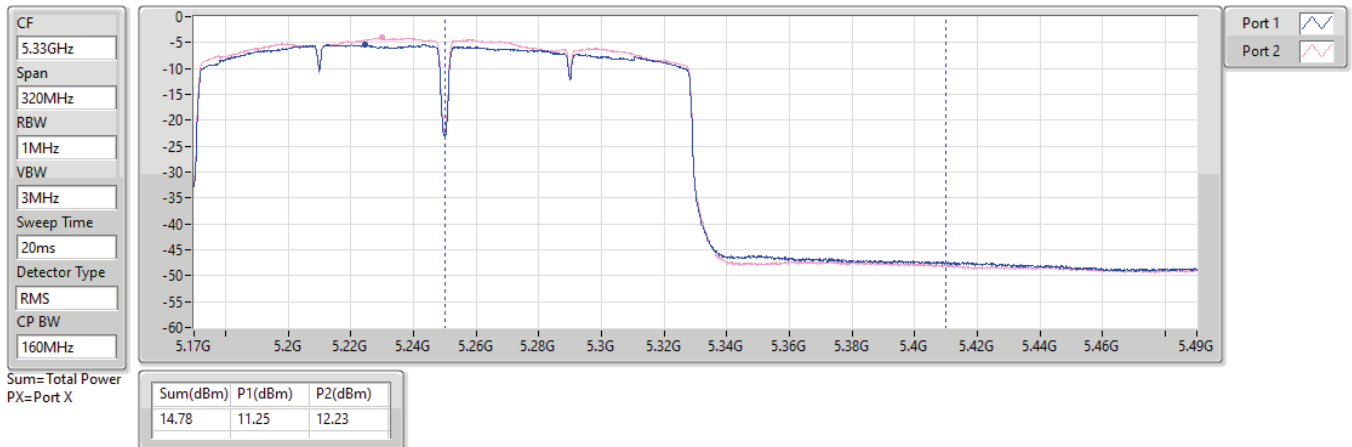


5.25-5.35GHz_802.11ac VHT160_Nss1,(MCS0)_2TX

AV Power

5250MHz Straddle 5.25-5.35GHz_TX

11/10/2022

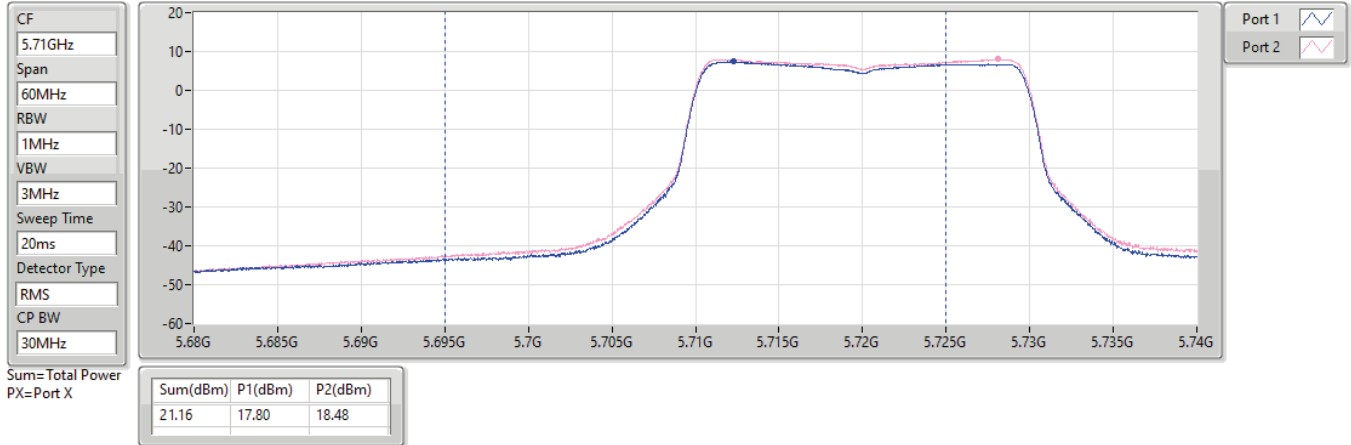


5.47-5.725GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

AV Power

5720MHz Straddle 5.47-5.725GHz_TX

11/10/2022

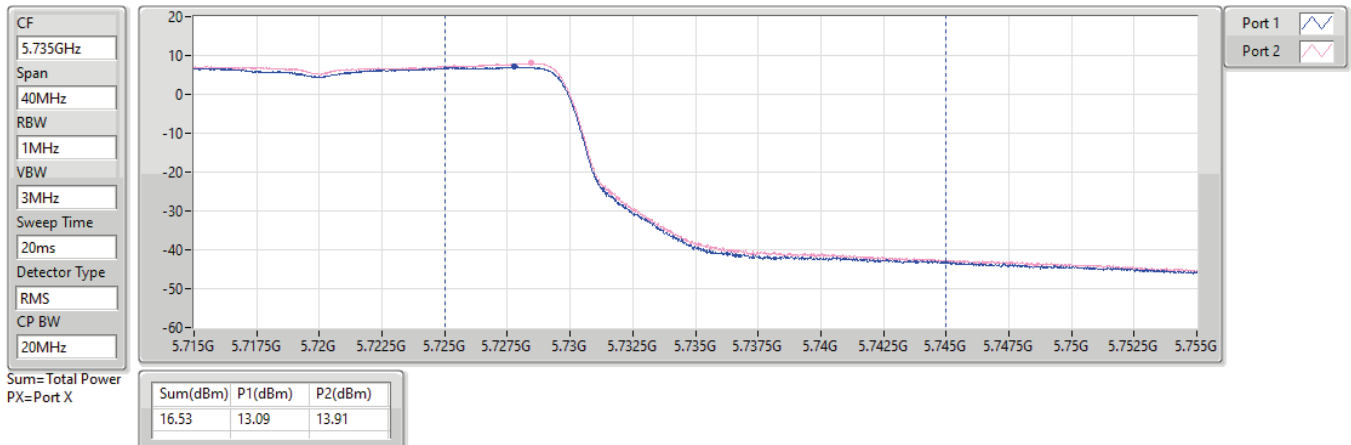


5.725-5.85GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

AV Power

5720MHz Straddle 5.725-5.85GHz_TX

11/10/2022

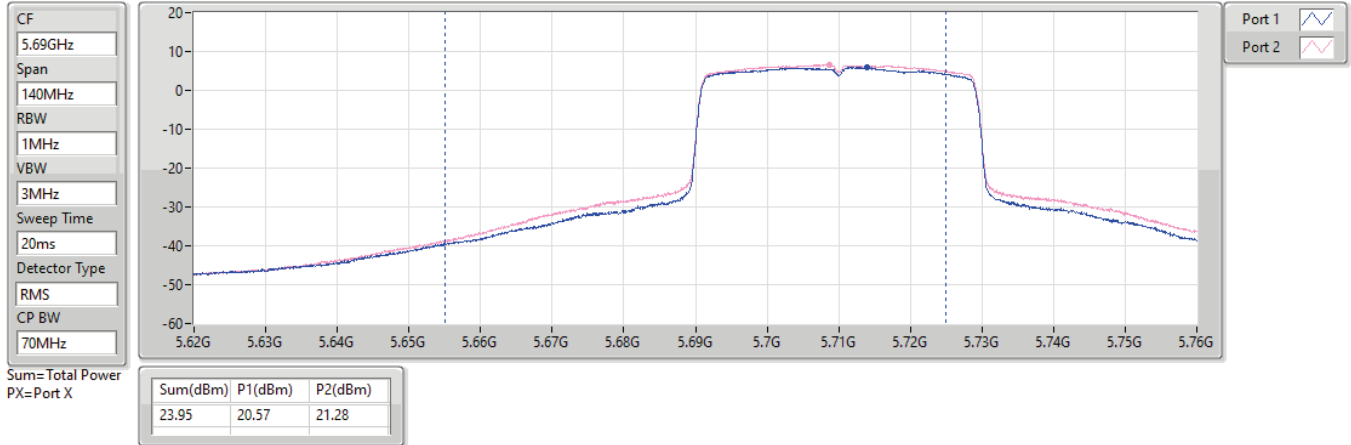


5.47-5.725GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

AV Power

5710MHz Straddle 5.47-5.725GHz_TX

11/10/2022

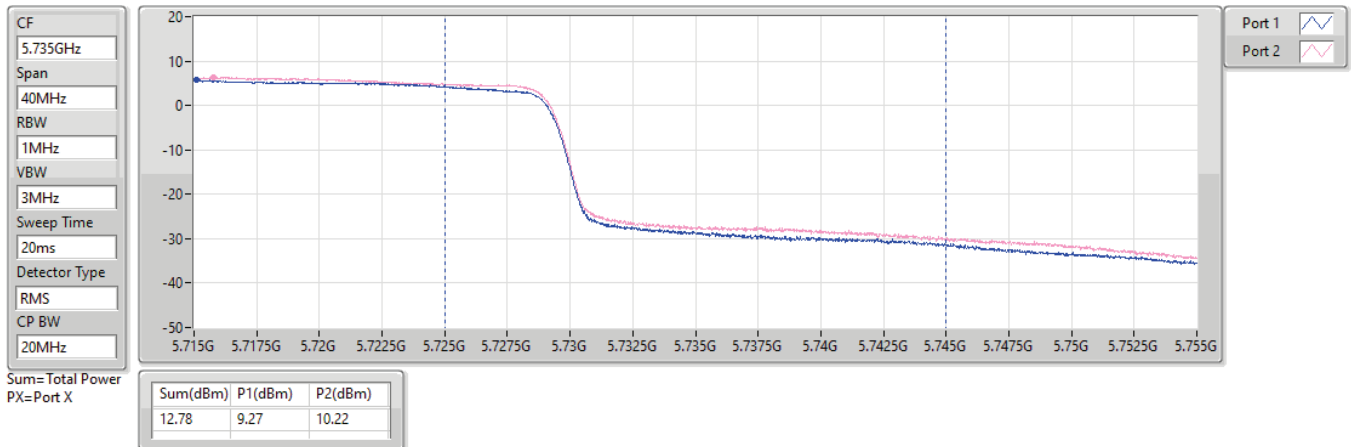


5.725-5.85GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

AV Power

5710MHz Straddle 5.725-5.85GHz_TX

11/10/2022

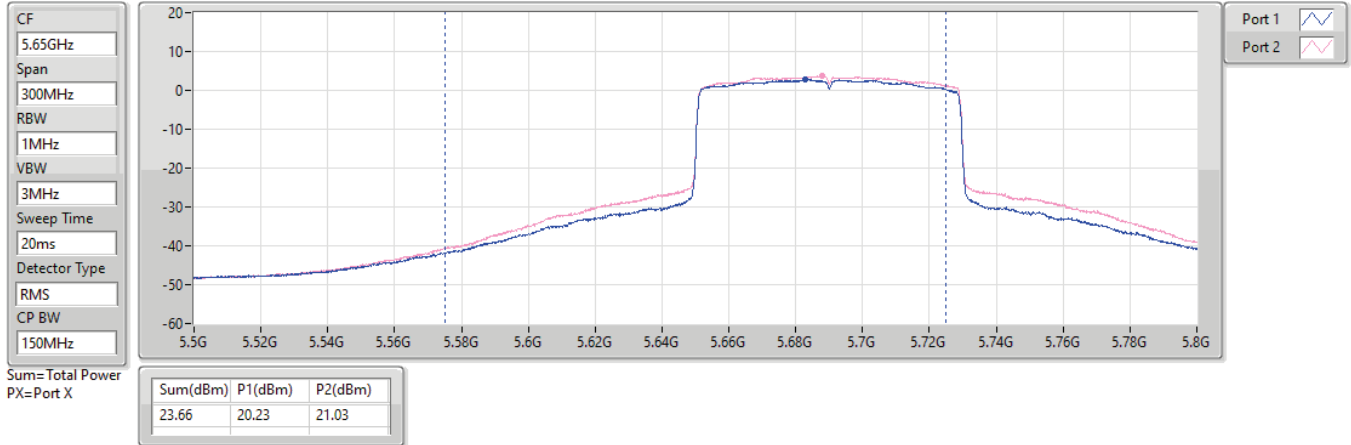


5.47-5.725GHz_802.11ax HEW80_Nss1,(MCS0)_2TX

AV Power

5690MHz Straddle 5.47-5.725GHz_TX

11/10/2022

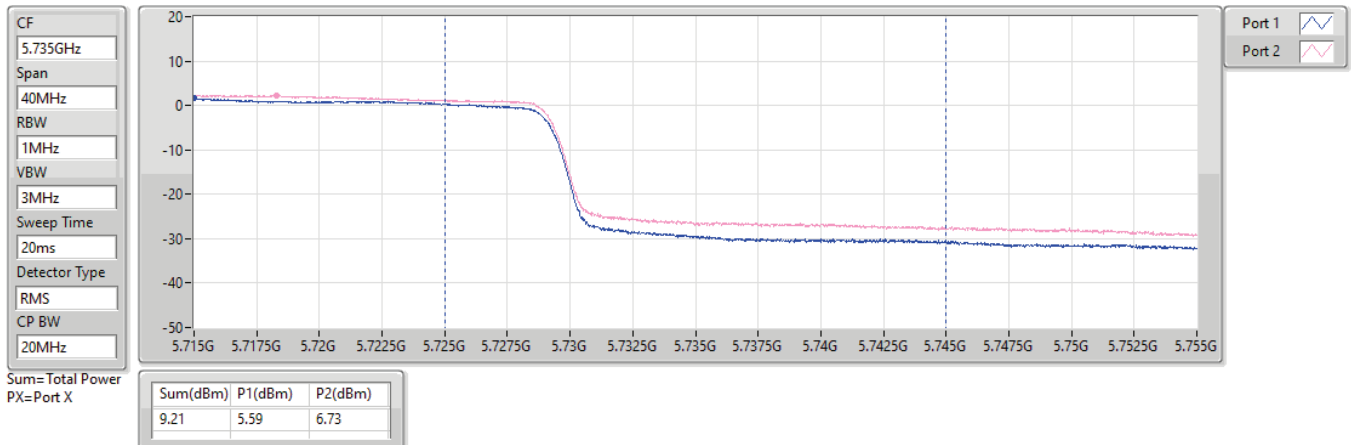


5.725-5.85GHz_802.11ax HEW80_Nss1,(MCS0)_2TX

AV Power

5690MHz Straddle 5.725-5.85GHz_TX

11/10/2022

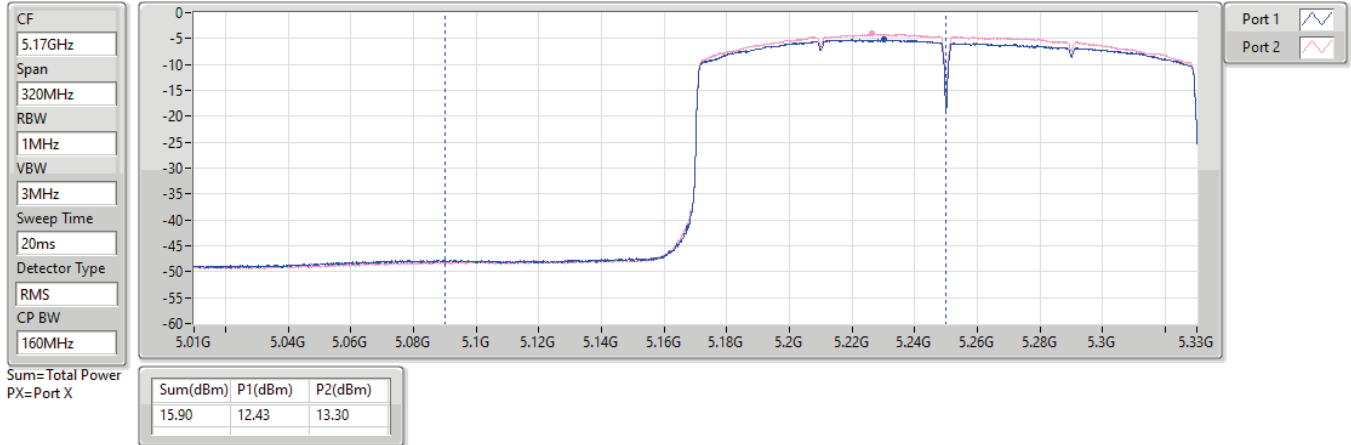


5.15-5.25GHz_802.11ax HEW160_Nss1,(MCS0)_2TX

AV Power

5250MHz Straddle 5.15-5.25GHz_TX

11/10/2022

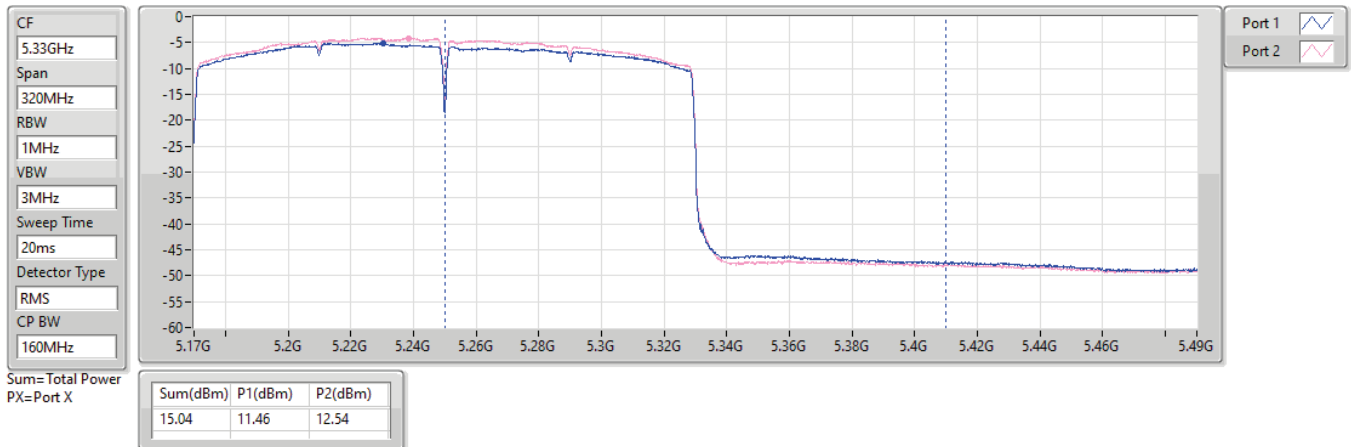


5.25-5.35GHz_802.11ax HEW160_Nss1,(MCS0)_2TX

AV Power

5250MHz Straddle 5.25-5.35GHz_TX

11/10/2022



**Summary**

Mode	Total Power (dBm)	Total Power (W)	EIRP (dBm)	EIRP (W)
5.25-5.35GHz	-	-	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	21.40	0.13804	29.19	0.82985
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	21.32	0.13552	29.11	0.81470
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	18.03	0.06353	25.82	0.38194
5.47-5.725GHz	-	-	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	21.66	0.14655	29.45	0.88105
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	21.63	0.14555	29.42	0.87498
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	21.68	0.14723	29.47	0.88512
5.725-5.85GHz	-	-	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	15.09	0.03228	22.88	0.19409
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	11.39	0.01377	19.18	0.08279
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	7.30	0.00537	15.09	0.03228

**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	-	-	-	-	-	-	-	-
5260MHz	Pass	7.79	18.33	18.45	21.40	22.19	29.19	30.00
5300MHz	Pass	7.79	18.87	17.58	21.28	22.19	29.07	30.00
5320MHz	Pass	7.79	18.61	17.93	21.29	22.19	29.08	30.00
5500MHz	Pass	7.79	18.01	18.69	21.37	22.19	29.16	30.00
5580MHz	Pass	7.79	18.04	18.49	21.28	22.19	29.07	30.00
5700MHz	Pass	7.79	18.49	18.80	21.66	22.19	29.45	30.00
5720MHz Straddle 5.47-5.725GHz	Pass	7.79	17.35	18.03	20.71	21.24	28.50	29.03
5720MHz Straddle 5.725-5.85GHz	Pass	7.79	11.56	12.54	15.09	28.21	22.88	36.00
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5270MHz	Pass	7.79	18.37	18.24	21.32	22.19	29.11	30.00
5310MHz	Pass	7.79	17.52	16.57	20.08	22.19	27.87	30.00
5510MHz	Pass	7.79	18.17	18.42	21.31	22.19	29.10	30.00
5550MHz	Pass	7.79	18.47	18.44	21.47	22.19	29.26	30.00
5670MHz	Pass	7.79	18.33	18.08	21.22	22.19	29.01	30.00
5710MHz Straddle 5.47-5.725GHz	Pass	7.79	18.28	18.93	21.63	22.19	29.42	30.00
5710MHz Straddle 5.725-5.85GHz	Pass	7.79	7.88	8.83	11.39	28.21	19.18	36.00
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5290MHz	Pass	7.79	15.35	14.67	18.03	22.19	25.82	30.00
5530MHz	Pass	7.79	15.52	15.83	18.69	22.19	26.48	30.00
5610MHz	Pass	7.79	19.09	18.21	21.68	22.19	29.47	30.00
5690MHz Straddle 5.47-5.725GHz	Pass	7.79	18.17	18.55	21.37	22.19	29.16	30.00
5690MHz Straddle 5.725-5.85GHz	Pass	7.79	3.95	4.61	7.30	28.21	15.09	36.00

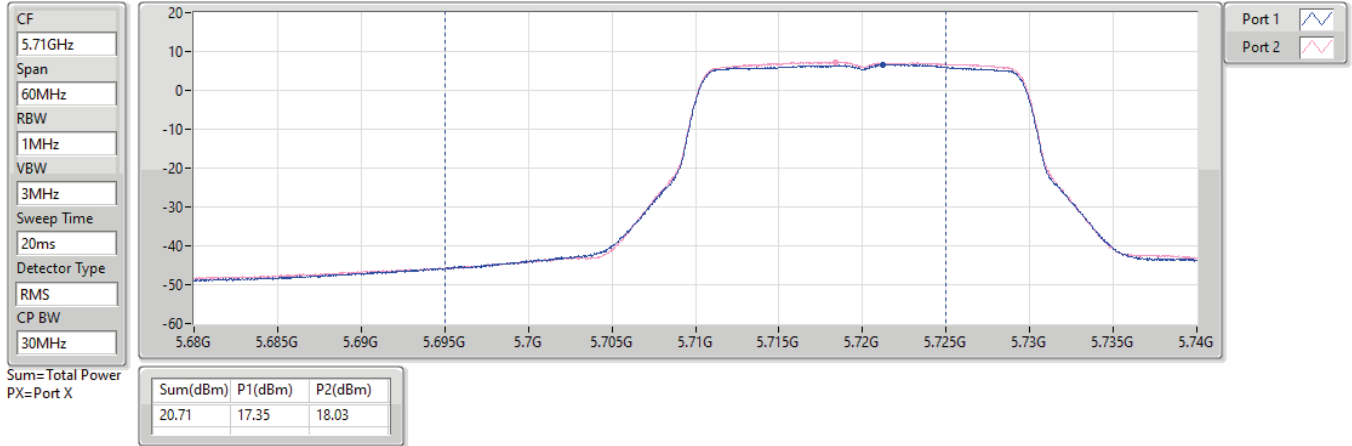
DG = Directional Gain; Port X = Port X output power

5.47-5.725GHz_802.11ax HEW20-BF_Nss1,(MCS0)_2TX

AV Power

5720MHz Straddle 5.47-5.725GHz_TX

19/10/2022

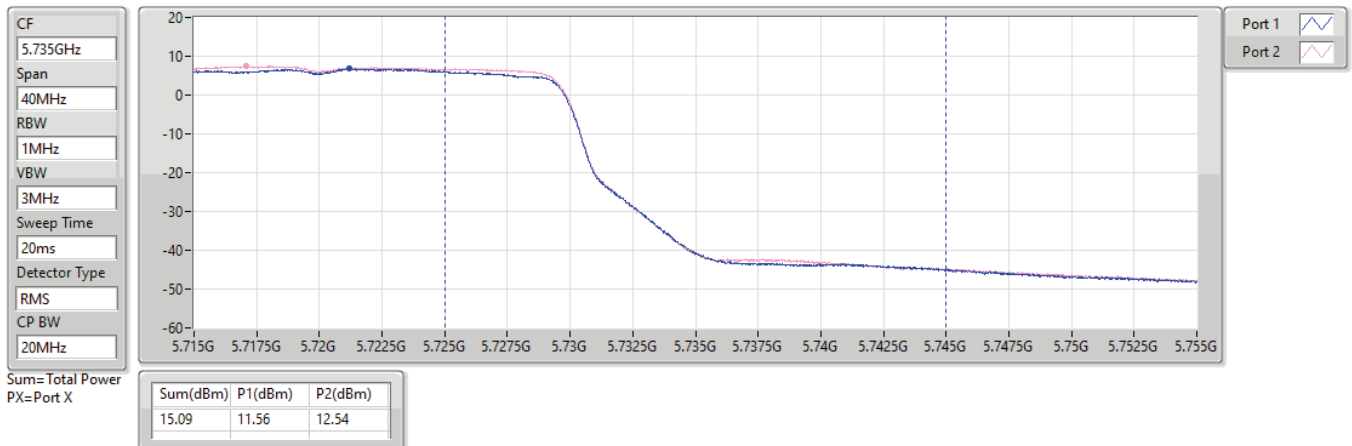


5.725-5.85GHz_802.11ax HEW20-BF_Nss1,(MCS0)_2TX

AV Power

5720MHz Straddle 5.725-5.85GHz_TX

19/10/2022

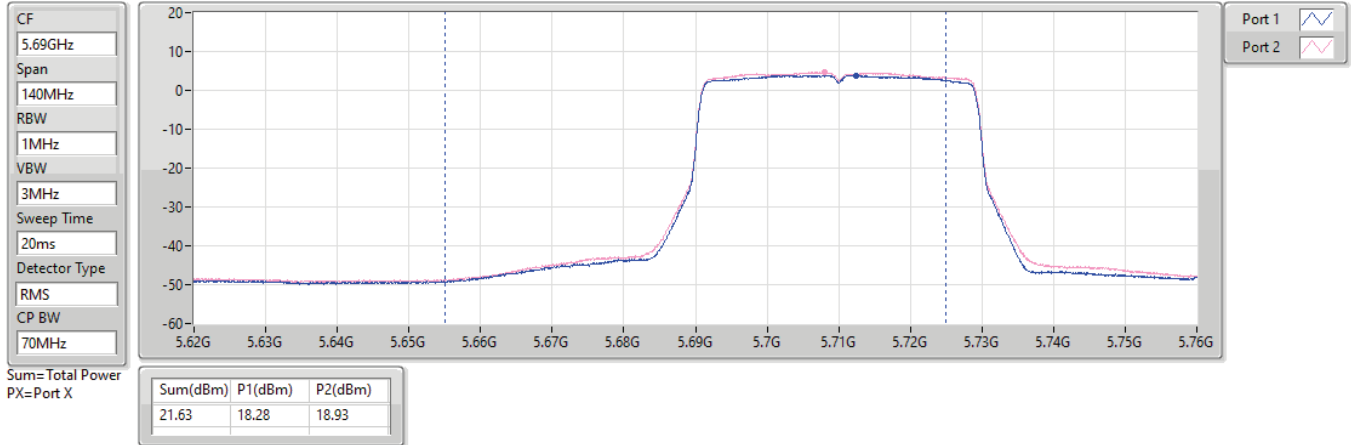


5.47-5.725GHz_802.11ax HEW40-BF_Nss1,(MCS0)_2TX

AV Power

5710MHz Straddle 5.47-5.725GHz_TX

15/10/2022



5.725-5.85GHz_802.11ax HEW40-BF_Nss1,(MCS0)_2TX

AV Power

5710MHz Straddle 5.725-5.85GHz_TX

15/10/2022

