



RADIO TEST REPORT

FCC ID : QXO-AP460C
Equipment : Wireless Access Point
Brand Name : Extreme Networks
Model Name : AP460C
Applicant : Extreme Networks, Inc.
6480 Via Del Oro, San Jose, CA 95119
Manufacturer : Extreme Networks, Inc.
6480 Via Del Oro, San Jose, CA 95119
Standard : 47 CFR FCC Part 15.407

The product was received on Mar. 29, 2021, and testing was started from Mar. 29, 2021 and completed on Jul. 10, 2021. We, Sporton International Inc. Hsinchu Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International Inc. Hsinchu Laboratory, the test report shall not be reproduced except in full.

Approved by: Sam Chen

Sporton International Inc. Hsinchu Laboratory

No.8, Ln. 724, Bo'ai St., Zhubei City, Hsinchu County 302010, Taiwan (R.O.C.)



Table of Contents

History of this test report.....	3
Summary of Test Result.....	4
1 General Description	5
1.1 Information.....	5
1.2 Applicable Standards	18
1.3 Testing Location Information	18
1.4 Measurement Uncertainty	19
2 Test Configuration of EUT	20
2.1 Test Channel Mode	20
2.2 The Worst Case Measurement Configuration.....	32
2.3 EUT Operation during Test	34
2.4 Accessories	34
2.5 Support Equipment.....	35
2.6 Test Setup Diagram	36
3 Transmitter Test Result	39
3.1 AC Power-line Conducted Emissions	39
3.2 Emission Bandwidth	41
3.3 Maximum Conducted Output Power	42
3.4 Peak Power Spectral Density.....	44
3.5 Unwanted Emissions.....	47
4 Test Equipment and Calibration Data	51
Appendix A. Test Results of AC Power-line Conducted Emissions	
Appendix B. Test Results of Emission Bandwidth	
Appendix C. Test Results of Maximum Conducted Output Power	
Appendix D. Test Results of Peak Power Spectral Density	
Appendix E. Test Results of Unwanted Emissions	
Appendix F. Test Results of Radiated Emission Co-location	
Appendix G. Test Photos	
Photographs of EUT v01	



TEL : 886-3-656-9065
FAX : 886-3-656-9085
Report Template No.: CB-A12_1 Ver1.3



Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
1.1.1	15.203	Antenna Requirement	PASS	-
3.1	15.207	AC Power-line Conducted Emissions	PASS	-
3.2	15.407(a)	Emission Bandwidth	PASS	-
3.3	15.407(a)	Maximum Conducted Output Power	PASS	-
3.4	15.407(a)	Peak Power Spectral Density	PASS	-
3.5	15.407(b)	Unwanted Emissions	PASS	-

Declaration of Conformity:

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

Comments and Explanations:

1. The test configuration, test mode and test software were written in this test report are declared by the manufacturer.
2. The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

Reviewed by: Sam Chen

Report Producer: Viola Huang

1 General Description

1.1 Information

1.1.1 RF General Information

Frequency Range (MHz)	IEEE Std. 802.11	Ch. Frequency (MHz)	Channel Number
5150-5250	a, n (HT20), ac (VHT20), ax (HEW20)	5180-5240	36-48 [4]
5250-5350		5260-5320	52-64 [4]
5470-5725		5500-5720	100-144 [12]
5725-5850		5745-5825	149-165 [5]
5150-5250	n (HT40), ac (VHT40), ax (HEW40)	5190-5230	38-46 [2]
5250-5350		5270-5310	54-62 [2]
5470-5725		5510-5710	102-142 [6]
5725-5850		5755-5795	151-159 [2]
5150-5250	ac (VHT80), ax (HEW80)	5210	42 [1]
5250-5350		5290	58 [1]
5470-5725		5530-5690	106-138 [3]
5725-5850		5775	155 [1]
5150-5350	ac (VHT160), ax (HEW160)	5250	50 [1]
5470-5725		5570	114 [1]

**For Radio 1**

Band	Mode	BWch (MHz)	Nant
5.15-5.25GHz	802.11a	20	1
5.15-5.25GHz	11n HT20	20	1
5.15-5.25GHz	11ac VHT20	20	1
5.15-5.25GHz	11ax HEW20	20	1
5.15-5.25GHz	11n HT40	40	1
5.15-5.25GHz	11ac VHT40	40	1
5.15-5.25GHz	11ax HEW40	40	1
5.15-5.25GHz	11ac VHT80	80	1
5.15-5.25GHz	11ax HEW80	80	1
5.25-5.35GHz	802.11a	20	1
5.25-5.35GHz	11n HT20	20	1
5.25-5.35GHz	11ac VHT20	20	1
5.25-5.35GHz	11ax HEW20	20	1
5.25-5.35GHz	11n HT40	40	1
5.25-5.35GHz	11ac VHT40	40	1
5.25-5.35GHz	11ax HEW40	40	1
5.25-5.35GHz	11ac VHT80	80	1
5.25-5.35GHz	11ax HEW80	80	1
5.47-5.725GHz	802.11a	20	1
5.47-5.725GHz	11n HT20	20	1
5.47-5.725GHz	11ac VHT20	20	1
5.47-5.725GHz	11ax HEW20	20	1
5.47-5.725GHz	11n HT40	40	1
5.47-5.725GHz	11ac VHT40	40	1
5.47-5.725GHz	11ax HEW40	40	1
5.47-5.725GHz	11ac VHT80	80	1
5.47-5.725GHz	11ax HEW80	80	1
5.725-5.85GHz	802.11a	20	1
5.725-5.85GHz	11n HT20	20	1
5.725-5.85GHz	11ac VHT20	20	1
5.725-5.85GHz	11ax HEW20	20	1
5.725-5.85GHz	11n HT40	40	1
5.725-5.85GHz	11ac VHT40	40	1
5.725-5.85GHz	11ax HEW40	40	1
5.725-5.85GHz	11ac VHT80	80	1
5.725-5.85GHz	11ax HEW80	80	1

**For Radio 2**

Band	Mode	BWch (MHz)	Nant
5.15-5.25GHz	802.11a	20	1, 2
5.15-5.25GHz	11n HT20	20	1, 2
5.15-5.25GHz	11n HT20-BF	20	2
5.15-5.25GHz	11ac VHT20	20	1, 2
5.15-5.25GHz	11ac VHT20-BF	20	2
5.15-5.25GHz	11ax HEW20	20	1, 2
5.15-5.25GHz	11ax HEW20-BF	20	2
5.15-5.25GHz	11n HT40	40	1, 2
5.15-5.25GHz	11n HT40-BF	40	2
5.15-5.25GHz	11ac VHT40	40	1, 2
5.15-5.25GHz	11ac VHT40-BF	40	2
5.15-5.25GHz	11ax HEW40	40	1, 2
5.15-5.25GHz	11ax HEW40-BF	40	2
5.15-5.25GHz	11ac VHT80	80	1, 2
5.15-5.25GHz	11ac VHT80-BF	80	2
5.15-5.25GHz	11ax HEW80	80	1, 2
5.15-5.25GHz	11ax HEW80-BF	80	2
5.25-5.35GHz	802.11a	20	1, 2
5.25-5.35GHz	11n HT20	20	1, 2
5.25-5.35GHz	11n HT20-BF	20	2
5.25-5.35GHz	11ac VHT20	20	1, 2
5.25-5.35GHz	11ac VHT20-BF	20	2
5.25-5.35GHz	11ax HEW20	20	1, 2
5.25-5.35GHz	11ax HEW20-BF	20	2
5.25-5.35GHz	11n HT40	40	1, 2
5.25-5.35GHz	11n HT40-BF	40	2
5.25-5.35GHz	11ac VHT40	40	1, 2
5.25-5.35GHz	11ac VHT40-BF	40	2
5.25-5.35GHz	11ax HEW40	40	1, 2
5.25-5.35GHz	11ax HEW40-BF	40	2
5.25-5.35GHz	11ac VHT80	80	1, 2
5.25-5.35GHz	11ac VHT80-BF	80	2
5.25-5.35GHz	11ax HEW80	80	1, 2
5.25-5.35GHz	11ax HEW80-BF	80	2

**For Radio 3**

Band	Mode	BWch (MHz)	Nant
5.15-5.25GHz	802.11a	20	1, 2, 3, 4
5.15-5.25GHz	11n HT20	20	1, 2, 3, 4
5.15-5.25GHz	11n HT20-BF	20	2, 3, 4
5.15-5.25GHz	11ac VHT20	20	1, 2, 3, 4
5.15-5.25GHz	11ac VHT20-BF	20	2, 3, 4
5.15-5.25GHz	11ax HEW20	20	1, 2, 3, 4
5.15-5.25GHz	11ax HEW20-BF	20	2, 3, 4
5.15-5.25GHz	11n HT40	40	1, 2, 3, 4
5.15-5.25GHz	11n HT40-BF	40	2, 3, 4
5.15-5.25GHz	11ac VHT40	40	1, 2, 3, 4
5.15-5.25GHz	11ac VHT40-BF	40	2, 3, 4
5.15-5.25GHz	11ax HEW40	40	1, 2, 3, 4
5.15-5.25GHz	11ax HEW40-BF	40	2, 3, 4
5.15-5.25GHz	11ac VHT80	80	1, 2, 3, 4
5.15-5.25GHz	11ac VHT80-BF	80	2, 3, 4
5.15-5.25GHz	11ax HEW80	80	1, 2, 3, 4
5.15-5.25GHz	11ax HEW80-BF	80	2, 3, 4
5.15-5.25GHz	11ac VHT160	160	1, 2, 3, 4
5.15-5.25GHz	11ac VHT160-BF	160	2, 3, 4
5.15-5.25GHz	11ax HEW160	160	1, 2, 3, 4
5.15-5.25GHz	11ax HEW160-BF	160	2, 3, 4
5.25-5.35GHz	802.11a	20	1, 2, 3, 4
5.25-5.35GHz	11n HT20	20	1, 2, 3, 4
5.25-5.35GHz	11n HT20-BF	20	2, 3, 4
5.25-5.35GHz	11ac VHT20	20	1, 2, 3, 4
5.25-5.35GHz	11ac VHT20-BF	20	2, 3, 4
5.25-5.35GHz	11ax HEW20	20	1, 2, 3, 4
5.25-5.35GHz	11ax HEW20-BF	20	2, 3, 4
5.25-5.35GHz	11n HT40	40	1, 2, 3, 4
5.25-5.35GHz	11n HT40-BF	40	2, 3, 4
5.25-5.35GHz	11ac VHT40	40	1, 2, 3, 4
5.25-5.35GHz	11ac VHT40-BF	40	2, 3, 4
5.25-5.35GHz	11ax HEW40	40	1, 2, 3, 4
5.25-5.35GHz	11ax HEW40-BF	40	2, 3, 4
5.25-5.35GHz	11ac VHT80	80	1, 2, 3, 4
5.25-5.35GHz	11ac VHT80-BF	80	2, 3, 4
5.25-5.35GHz	11ax HEW80	80	1, 2, 3, 4
5.25-5.35GHz	11ax HEW80-BF	80	2, 3, 4



Band	Mode	BWch (MHz)	Nant
5.25-5.35GHz	11ac VHT160	160	1, 2, 3, 4
5.25-5.35GHz	11ac VHT160-BF	160	2, 3, 4
5.25-5.35GHz	11ax HEW160	160	1, 2, 3, 4
5.25-5.35GHz	11ax HEW160-BF	160	2, 3, 4
5.47-5.725GHz	802.11a	20	1, 2, 3, 4
5.47-5.725GHz	11n HT20	20	1, 2, 3, 4
5.47-5.725GHz	11n HT20-BF	20	2, 3, 4
5.47-5.725GHz	11ac VHT20	20	1, 2, 3, 4
5.47-5.725GHz	11ac VHT20-BF	20	2, 3, 4
5.47-5.725GHz	11ax HEW20	20	1, 2, 3, 4
5.47-5.725GHz	11ax HEW20-BF	20	2, 3, 4
5.47-5.725GHz	11n HT40	40	1, 2, 3, 4
5.47-5.725GHz	11n HT40-BF	40	2, 3, 4
5.47-5.725GHz	11ac VHT40	40	1, 2, 3, 4
5.47-5.725GHz	11ac VHT40-BF	40	2, 3, 4
5.47-5.725GHz	11ax HEW40	40	1, 2, 3, 4
5.47-5.725GHz	11ax HEW40-BF	40	2, 3, 4
5.47-5.725GHz	11ac VHT80	80	1, 2, 3, 4
5.47-5.725GHz	11ac VHT80-BF	80	2, 3, 4
5.47-5.725GHz	11ax HEW80	80	1, 2, 3, 4
5.47-5.725GHz	11ax HEW80-BF	80	2, 3, 4
5.47-5.725GHz	11ac VHT160	160	1, 2, 3, 4
5.47-5.725GHz	11ac VHT160-BF	160	2, 3, 4
5.47-5.725GHz	11ax HEW160	160	1, 2, 3, 4
5.47-5.725GHz	11ax HEW160-BF	160	2, 3, 4
5.725-5.85GHz	802.11a	20	1, 2, 3, 4
5.725-5.85GHz	11n HT20	20	1, 2, 3, 4
5.725-5.85GHz	11n HT20-BF	20	2, 3, 4
5.725-5.85GHz	11ac VHT20	20	1, 2, 3, 4
5.725-5.85GHz	11ac VHT20-BF	20	2, 3, 4
5.725-5.85GHz	11ax HEW20	20	1, 2, 3, 4
5.725-5.85GHz	11ax HEW20-BF	20	2, 3, 4
5.725-5.85GHz	11n HT40	40	1, 2, 3, 4
5.725-5.85GHz	11n HT40-BF	40	2, 3, 4
5.725-5.85GHz	11ac VHT40	40	1, 2, 3, 4
5.725-5.85GHz	11ac VHT40-BF	40	2, 3, 4
5.725-5.85GHz	11ax HEW40	40	1, 2, 3, 4
5.725-5.85GHz	11ax HEW40-BF	40	2, 3, 4
5.725-5.85GHz	11ac VHT80	80	1, 2, 3, 4
5.725-5.85GHz	11ac VHT80-BF	80	2, 3, 4



Band	Mode	BWch (MHz)	Nant
5.725-5.85GHz	11ax HEW80	80	1, 2, 3, 4
5.725-5.85GHz	11ax HEW80-BF	80	2, 3, 4

Note:

- ♦ 11a, HT20 and HT40 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM modulation.
- ♦ VHT20, VHT40, VHT80 and VHT160 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM, 256QAM modulation.
- ♦ HEW20, HEW40, HEW80 and HEW160 use a combination of OFDMA-BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM modulation.
- ♦ BWch is the nominal channel bandwidth.

1.1.2 Antenna Information

For WLAN

Ant.	Radio	2.4GHz port	5GHz port	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	2	1	1	N/A	N/A	PIFA Antenna	I-PEX	Note 1
2	2	2	2	N/A	N/A	PIFA Antenna	I-PEX	
3	3	-	1	N/A	N/A	PIFA Antenna	I-PEX	
4	1	1	1	N/A	N/A	PIFA Antenna	I-PEX	
5	3	-	2	N/A	N/A	PIFA Antenna	I-PEX	
6	3	-	3	N/A	N/A	PIFA Antenna	I-PEX	
7	3	-	4	N/A	N/A	PIFA Antenna	I-PEX	

Note 1:

Ant.	Radio	Antenna Gain (dBi)				
		2.4GHz	5GHz Band 1	5GHz Band 2	5GHz Band 3	5GHz Band 4
1	2	2.94	3.56	3.56	-	-
2	2	3.24	3.51	3.51	-	-
3	3	-	4.19	4.19	4.19	4.19
4	1	3.74	3.42	3.42	3.42	3.42
5	3	-	3.22	3.22	3.22	3.22
6	3	-	3.96	3.96	3.96	3.96
7	3	-	4.21	4.21	4.21	4.21

Ant.	Radio	Directional Gain (dBi)							
		5GHz Band 1		5GHz Band 2		5GHz Band 3		5GHz Band 4	
3	3	4T1S	4T4S	4T1S	4T4S	4T1S	4T4S	4T1S	4T4S
5		7.43	3.24	7.58	3.46	6.6	2.97	6.44	2.56
6		2T1S	2T2S	2T1S	2T2S	2T1S	2T2S	2T1S	2T2S
7		6.13	3.7	6.24	3.8	5.49	2.65	5.7	2.98

Ant.	Radio	Antenna gain for above 30 degrees (dBi)			
		2.4GHz 1TX	2.4GHz 2TX	5GHz 2TX	5GHz 4TX
1	2	2.09	5.64	-	-
2	2	3.14	5.64	-	-
3	3	-	-	5.17	6.01
4	1	3.34	-	-	-
5	3	-	-	5.17	6.01
6	3	-	-	-	6.01
7	3	-	-	-	6.01

Note 2: The EUT has seven antennas.

Note 3: The above information was declared by manufacturer.

Note 4: Radio 2: Maximum Directional Gain following KDB662911 D01.

Note 5: Radio 3: Maximum Directional Gain following KDB662911 D03.

For Radio 1

For 2.4GHz:

For IEEE 802.11b/g/n/ax mode (1TX/1RX):

For 1TX/1RX

Only Port 1 (ant.4) can be use as transmitting/receiving antenna.

For 5GHz band 1~band 4:

For IEEE 802.11a/n/ac/ax mode (1TX/1RX):

For 1TX/1RX

Only Port 1 (ant.4) can be use as transmitting/receiving antenna.

For Radio 2

For 2.4GHz:

For IEEE 802.11b/g/n/ax mode (1TX/1RX, 2TX/2RX):

For 1TX/1RX

The EUT supports the antenna with TX and RX diversity functions.

Both Port 1 (ant.1) and Port 2 (ant.2) support transmit and receive functions, but only one of them will be used at one time.

The Port 2 (ant.2) generated the worst case, so it was selected to test and record in the report.

For 2TX/2RX

Port 1 (ant.1) and Port 2 (ant.2) can be used as transmitting/receiving antenna.

Port 1 (ant.1) and Port 2 (ant.2) could transmit/receive simultaneously.

**For 5GHz band 1~band 2:****For IEEE 802.11a/n/ac/ax mode (1TX/1RX, 2TX/2RX):**

For 1TX/1RX

The EUT supports the antenna with TX and RX diversity functions.

Both Port 1 (ant.1) and Port 2 (ant.2) support transmit and receive functions, but only one of them will be used at one time.

The Port 1 (ant.1) generated the worst case, so it was selected to test and record in the report.

For 2TX/2RX

Port 1 (ant.1) and Port 2 (ant.2) can be used as transmitting/receiving antenna.

Port 1 (ant.1) and Port 2 (ant.2) could transmit/receive simultaneously.

For Radio 3**For 5GHz band 1~band 4:****For IEEE 802.11a/n/ac/ax mode (1TX/1RX, 2TX/2RX, 3TX/3RX, 4TX/4RX):**

For 1TX/1RX

Port 1 (ant.3) can be used as transmitting/receiving antenna.

Port 1 (ant.3) could transmit/receive simultaneously.

For 2TX/2RX

Port 1 (ant.3) and Port 2 (ant.5) can be used as transmitting/receiving antenna.

Port 1 (ant.3) and Port 2 (ant.5) could transmit/receive simultaneously.

For 3TX/3RX

Port 1 (ant.3), Port 2 (ant.5), Port 3 (ant.6) can be used as transmitting/receiving antenna.

Port 1 (ant.3), Port 2 (ant.5), Port 3 (ant.6) could transmit/receive simultaneously.

For 4TX/4RX

Port 1 (ant.3), Port 2 (ant.5), Port 3 (ant.6) and Port 4 (ant.7) can be used as transmitting/receiving antenna.

Port 1 (ant.3), Port 2 (ant.5), Port 3 (ant.6) and Port 4 (ant.7) could transmit/receive simultaneously.

**1.1.3 Mode Test Duty Cycle**

For indoor use

For Radio 1:

1T1S

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq 1/T$
802.11a	0.958	0.19	2.065m	1k
802.11ax HEW20	0.979	0.09	1.489m	1k
802.11ax HEW40	0.965	0.15	773.75u	3k
802.11ax HEW80	0.929	0.32	402.5u	3k

For Radio 2:

1T1S

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq 1/T$
802.11a	0.953	0.21	2.068m	1k
802.11ax HEW20	0.981	0.08	n/a (DC $\geq$ 0.98)	n/a (DC $\geq$ 0.98)
802.11ax HEW40	0.964	0.16	775u	3k
802.11ax HEW80	0.931	0.31	405u	3k

2T1S

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq 1/T$
802.11a	0.958	0.19	2.065m	1k

2T2S

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq 1/T$
802.11ax HEW20	0.959	0.18	779.625u	3k
802.11ax HEW40	0.925	0.34	422.25u	3k
802.11ax HEW80	0.889	0.51	239.625u	10k

For Radio 3:

2T1S

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq 1/T$
802.11a	0.953	0.21	2.068m	1k

2T2S

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq 1/T$
802.11ax HEW20	0.965	0.15	782.5u	3k
802.11ax HEW40	0.93	0.32	422.5u	3k
802.11ax HEW80	0.891	0.5	240u	10k
802.11ax HEW160	0.829	0.81	154.375u	10k

4T1S

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq 1/T$
802.11a	0.958	0.19	2.065m	1k
802.11ax HEW20	0.982	0.08	n/a (DC $\geq$ 0.98)	n/a (DC $\geq$ 0.98)
802.11ax HEW40	0.961	0.17	773.75u	3k
802.11ax HEW80	0.931	0.31	401.875u	3k
802.11ax HEW160	0.889	0.51	232.5u	10k

**4T4S**

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq 1/T$
802.11ax HEW20	0.92	0.36	440.705u	3k
802.11ax HEW40	0.899	0.46	262.821u	10k
802.11ax HEW80	0.845	0.73	171.474u	10k
802.11ax HEW160	0.799	0.97	123.75u	10k

For outdoor use**For Radio 1:****1T1S**

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq 1/T$
802.11a	0.958	0.19	2.065m	1k
802.11ax HEW20	0.979	0.09	1.489m	1k
802.11ax HEW40	0.965	0.15	773.75u	3k
802.11ax HEW80	0.929	0.32	402.5u	3k

For Radio 2:**1T1S**

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq 1/T$
802.11a	0.953	0.21	2.068m	1k
802.11ax HEW20	0.981	0.08	n/a (DC $\geq$ 0.98)	n/a (DC $\geq$ 0.98)
802.11ax HEW40	0.964	0.16	775u	3k
802.11ax HEW80	0.931	0.31	405u	3k

2T1S

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq 1/T$
802.11a	0.958	0.19	2.065m	1k

2T2S

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq 1/T$
802.11ax HEW20	0.959	0.18	779.625u	3k
802.11ax HEW40	0.925	0.34	422.25u	3k
802.11ax HEW80	0.889	0.51	239.625u	10k

**For Radio 3:****2T1S**

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq 1/T$
802.11a	0.953	0.21	2.068m	1k

2T2S

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq 1/T$
802.11ax HEW20	0.965	0.15	782.5u	3k
802.11ax HEW40	0.93	0.32	422.5u	3k
802.11ax HEW80	0.891	0.5	240u	10k
802.11ax HEW160	0.829	0.81	154.375u	10k

4T1S

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq 1/T$
802.11a	0.958	0.19	2.065m	1k
802.11ax HEW20	0.982	0.08	n/a (DC $\geq$ 0.98)	n/a (DC $\geq$ 0.98)
802.11ax HEW40	0.961	0.17	773.75u	3k
802.11ax HEW80	0.931	0.31	401.875u	3k
802.11ax HEW160	0.889	0.51	232.5u	10k

4T4S

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq 1/T$
802.11ax HEW20	0.92	0.36	440.705u	3k
802.11ax HEW40	0.899	0.46	262.821u	10k
802.11ax HEW80	0.845	0.73	171.474u	10k
802.11ax HEW160	0.799	0.97	123.75u	10k

Note:

- ♦ DC is Duty Cycle.
- ♦ DCF is Duty Cycle Factor.

1.1.4 EUT Operational Condition

EUT Power Type	From PoE			
Beamforming Function	☒	With beamforming	☐	Without beamforming
	The product has beamforming function for n/ax in 2.4GHz and n/ac/ax in 5GHz.			
Weather Band	☒	With 5600~5650MHz	☐	Without 5600~5650MHz
Function	☒	Outdoor P2M	☒	Indoor P2M
	☐	Fixed P2P	☐	Client
TPC Function	☒	With TPC	☐	Without TPC
Test Software Version	Mtool V3.0.0.5			

Note: The above information was declared by manufacturer.

1.1.5 Table for EUT support function

Function
AP
Mesh

Note: The above information was declared by manufacturer.

1.1.6 Table for Radio function

Radio	WLAN 2.4GHz	5GHz Band 1	5GHz Band 2	5GHz Band 3	5GHz Band 4	Bluetooth
1	V	V	V	V	V	-
2	V	V	V	-	-	-
3	-	V	V	V	V	-
4	-	-	-	-	-	V



1.2 Applicable Standards

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

- ♦ 47 CFR FCC Part 15.407
- ♦ ANSI C63.10-2013
- ♦ FCC KDB 789033 D02 v02r01

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

- ♦ FCC KDB 662911 D01 v02r01
- ♦ FCC KDB 662911 D03 v01
- ♦ FCC KDB 412172 D01 v01r01
- ♦ FCC KDB 414788 D01 v01r01

1.3 Testing Location Information

Testing Location Information	
Test Lab. : Sporton International Inc. Hsinchu Laboratory	
Hsinchu	ADD: No.8, Ln. 724, Bo'ai St., Zhubei City, Hsinchu County 302010, Taiwan (R.O.C.)
(TAF: 3787)	TEL: 886-3-656-9065 FAX: 886-3-656-9085
	Test site Designation No. TW3787 with FCC.
	Conformity Assessment Body Identifier (CABID) TW3787 with ISCED.

Test Condition	Test Site No.	Test Engineer	Test Environment (°C / %)	Test Date
RF Conducted	TH03-CB	Eddie Weng	23.8-25.7 / 63-69	May 05, 2021~Jun. 12, 2021
Radiated below 1GHz	03CH05-CB	Ken Yeh	20.2-21.4 / 52-57	Mar. 29, 2021~Jul. 10, 2021
Radiated co-location	03CH05-CB	Ken Yeh	21.5-21.7 / 56-58	Mar. 29, 2021~Jul. 10, 2021
Radiated above 1GHz (Radio 1)	03CH02-CB	Ken Yeh	20.2-21.5 / 58-59	Mar. 29, 2021~Jul. 10, 2021
Radiated above 1GHz (Radio 2)	For 1TX : 03CH02-CB	Ken Yeh	20.2-21.4 / 56-57	
	For 2TX : 03CH01-CB	Ken Yeh	20.2-21.5 / 55-57	
Radiated above 1GHz (Radio 3)	For 2TX : 03CH02-CB	Ken Yeh	20.2-21.6 / 54-57	
	For 4T1S : 03CH01-CB	Ken Yeh	20.2-21.1 / 56-57	
	For 4T1S : 03CH02-CB	Ken Yeh	20.2-21.3 / 57-58	
	For 4T4S : 03CH02-CB	Ken Yeh	20.2-21.6 / 55-57	
AC Conduction	CO02-CB	Wei Li	22-23 / 58-60	Jun. 28, 2021



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 Date: Before May 08, 2021

Test Items	Uncertainty	Remark
Radiated Emission (9kHz ~ 30MHz)	3.8 dB	Confidence levels of 95%
Radiated Emission (30MHz ~ 1,000MHz)	5.6 dB	Confidence levels of 95%
Radiated Emission (1GHz ~ 18GHz)	5.0 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	4.9 dB	Confidence levels of 95%
Output Power Measurement	1.4 dB	Confidence levels of 95%
Power Density Measurement	2.8 dB	Confidence levels of 95%
Bandwidth Measurement	0.4%	Confidence levels of 95%

Test Date: After May 07, 2021

Test Items	Uncertainty	Remark
Conducted Emission (150kHz ~ 30MHz)	2.0 dB	Confidence levels of 95%
Radiated Emission (9kHz ~ 30MHz)	4.2 dB	Confidence levels of 95%
Radiated Emission (30MHz ~ 1,000MHz)	5.5 dB	Confidence levels of 95%
Radiated Emission (1GHz ~ 18GHz)	4.7 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	4.2 dB	Confidence levels of 95%
Conducted Emission	2.5 dB	Confidence levels of 95%
Output Power Measurement	1.3 dB	Confidence levels of 95%
Power Density Measurement	2.5 dB	Confidence levels of 95%
Bandwidth Measurement	0.9%	Confidence levels of 95%



2 Test Configuration of EUT

2.1 Test Channel Mode

For indoor use (band 1) and indoor / outdoor use (band 2~4)

For Radio 1:

1T1S

Mode	Power Setting	Power Setting (dBm)
802.11a_Nss1,(6Mbps)_1TX	-	-
5180MHz	83	20.75
5200MHz	83	20.75
5240MHz	85	21.25
5260MHz	87	21.75
5300MHz	87	21.75
5320MHz	86	21.5
5500MHz	84	21
5580MHz	84	21
5700MHz	79	19.75
5720MHz Straddle 5.47-5.725GHz	89	22.25
5720MHz Straddle 5.725-5.85GHz	89	22.25
5745MHz	98	24.5
5785MHz	120	30
5825MHz	99	24.75
802.11ax HEW20_Nss1,(MCS0)_1TX	-	-
5180MHz	82	20.5
5200MHz	82	20.5
5240MHz	84	21
5260MHz	83	20.75
5300MHz	84	21
5320MHz	82	20.5
5500MHz	79	19.75
5580MHz	83	20.75
5700MHz	72	18
5720MHz Straddle 5.47-5.725GHz	87	21.75
5720MHz Straddle 5.725-5.85GHz	87	21.75
5745MHz	98	24.5
5785MHz	99	24.75
5825MHz	99	24.75
802.11ax HEW40_Nss1,(MCS0)_1TX	-	-
5190MHz	77	19.25
5230MHz	84	21



Mode	Power Setting	Power Setting (dBm)
5270MHz	84	21
5310MHz	76	19
5510MHz	73	18.25
5550MHz	81	20.25
5670MHz	82	20.5
5710MHz Straddle 5.47-5.725GHz	93	23.25
5710MHz Straddle 5.725-5.85GHz	93	23.25
5755MHz	100	25
5795MHz	105	26.25
802.11ax HEW80_Nss1,(MCS0)_1TX	-	-
5210MHz	76	19
5290MHz	75	18.75
5530MHz	73	18.25
5610MHz	83	20.75
5690MHz Straddle 5.47-5.725GHz	91	22.75
5690MHz Straddle 5.725-5.85GHz	91	22.75
5775MHz	88	22

For Radio 2:**1T1S**

Mode	Power Setting	PowerSetting (dBm)
802.11a_Nss1,(6Mbps)_1TX	-	-
5180MHz	79	19.75
5200MHz	78	19.5
5240MHz	81	20.25
5260MHz	84	21
5300MHz	84	21
5320MHz	83	20.75
802.11ax HEW20_Nss1,(MCS0)_1TX	-	-
5180MHz	78	19.5
5200MHz	78	19.5
5240MHz	80	20
5260MHz	82	20.5
5300MHz	83	20.75
5320MHz	78	19.5
802.11ax HEW40_Nss1,(MCS0)_1TX	-	-
5190MHz	71	17.75
5230MHz	81	20.25
5270MHz	80	20
5310MHz	71	17.75
802.11ax HEW80_Nss1,(MCS0)_1TX	-	-



Mode	Power Setting	PowerSetting (dBm)
5210MHz	72	18
5290MHz	71	17.75

2T1S

Mode	Power Setting	PowerSetting (dBm)
802.11a_Nss1,(6Mbps)_2TX	-	-
5180MHz	70	17.5
5200MHz	69	17.25
5240MHz	70	17.5
5260MHz	74	18.5
5300MHz	74	18.5
5320MHz	74	18.5

2T2S

Mode	Power Setting	PowerSetting (dBm)
802.11ax HEW20_Nss2,(MCS0)_2TX	-	-
5180MHz	69	17.25
5200MHz	68	17
5240MHz	69	17.25
5260MHz	72	18
5300MHz	73	18.25
5320MHz	72	18
802.11ax HEW40_Nss2,(MCS0)_2TX	-	-
5190MHz	66	16.5
5230MHz	70	17.5
5270MHz	69	17.25
5310MHz	70	17.5
802.11ax HEW80_Nss2,(MCS0)_2TX	-	-
5210MHz	70	17.5
5290MHz	70	17.5

**For Radio 3:
2T1S**

Mode	Power Setting	Power Setting (dBm)
802.11a_Nss1,(6Mbps)_2TX	-	-
5180MHz	79	19.75
5200MHz	79	19.75
5240MHz	79	19.75
5260MHz	78	19.5
5300MHz	77	19.25
5320MHz	77	19.25
5500MHz	77	19.25
5580MHz	78	19.5
5700MHz	78	19.5
5720MHz Straddle 5.47-5.725GHz	87	21.75
5720MHz Straddle 5.725-5.85GHz	87	21.75
5745MHz	115	28.75
5785MHz	114	28.5
5825MHz	116	29

2T2S

Mode	Power Setting	Power Setting (dBm)
802.11ax HEW20_Nss2,(MCS0)_2TX	-	-
5180MHz	78	19.5
5200MHz	78	19.5
5240MHz	78	19.5
5260MHz	77	19.25
5300MHz	77	19.25
5320MHz	77	19.25
5500MHz	76	19
5580MHz	77	19.25
5700MHz	77	19.25
5720MHz Straddle 5.47-5.725GHz	86	21.5
5720MHz Straddle 5.725-5.85GHz	86	21.5
5745MHz	114	28.5
5785MHz	114	28.5
5825MHz	115	28.75
802.11ax HEW40_Nss2,(MCS0)_2TX	-	-
5190MHz	79	19.75
5230MHz	79	19.75
5270MHz	77	19.25
5310MHz	77	19.25
5510MHz	77	19.25
5550MHz	77	19.25



Mode	Power Setting	Power Setting (dBm)
5670MHz	77	19.25
5710MHz Straddle 5.47-5.725GHz	83	20.75
5710MHz Straddle 5.725-5.85GHz	83	20.75
5755MHz	109	27.25
5795MHz	113	28.25
802.11ax HEW80_Nss2,(MCS0)_2TX	-	-
5210MHz	77	19.25
5290MHz	78	19.5
5530MHz	79	19.75
5610MHz	78	19.5
5690MHz Straddle 5.47-5.725GHz	82	20.5
5690MHz Straddle 5.725-5.85GHz	82	20.5
5775MHz	99	24.75
802.11ax HEW160_Nss2,(MCS0)_2TX	-	-
5250MHz Straddle 5.15-5.25GHz	75	18.75
5250MHz Straddle 5.25-5.35GHz	75	18.75
5570MHz	76	19

4T1S**For non beamforming mode**

Mode	Power Setting	Power Setting (dBm)
802.11a_Nss1,(6Mbps)_4TX	-	-
5180MHz	68	17
5200MHz	68	17
5240MHz	69	17.25
5260MHz	68	17
5300MHz	68	17
5320MHz	68	17
5500MHz	68	17
5580MHz	68	17
5700MHz	68	17
5720MHz Straddle 5.47-5.725GHz	74	18.5
5720MHz Straddle 5.725-5.85GHz	74	18.5
5745MHz	104	26
5785MHz	105	26.25
5825MHz	106	26.5
802.11ax HEW20_Nss1,(MCS0)_4TX	-	-
5180MHz	67	16.75
5200MHz	67	16.75
5240MHz	68	17
5260MHz	67	16.75



Mode	Power Setting	Power Setting (dBm)
5300MHz	66	16.5
5320MHz	66	16.5
5500MHz	66	16.5
5580MHz	66	16.5
5700MHz	66	16.5
5720MHz Straddle 5.47-5.725GHz	72	18
5720MHz Straddle 5.725-5.85GHz	72	18
5745MHz	103	25.75
5785MHz	103	25.75
5825MHz	104	26
802.11ax HEW40_Nss1,(MCS0)_4TX	-	-
5190MHz	67	16.75
5230MHz	67	16.75
5270MHz	67	16.75
5310MHz	66	16.5
5510MHz	66	16.5
5550MHz	66	16.5
5670MHz	66	16.5
5710MHz Straddle 5.47-5.725GHz	69	17.25
5710MHz Straddle 5.725-5.85GHz	69	17.25
5755MHz	102	25.5
5795MHz	103	25.75
802.11ax HEW80_Nss1,(MCS0)_4TX	-	-
5210MHz	61	15.25
5290MHz	66	16.5
5530MHz	66	16.5
5610MHz	66	16.5
5690MHz Straddle 5.47-5.725GHz	68	17
5690MHz Straddle 5.725-5.85GHz	68	17
5775MHz	86	21.5
802.11ax HEW160_Nss1,(MCS0)_4TX	-	-
5250MHz Straddle 5.15-5.25GHz	63	15.75
5250MHz Straddle 5.25-5.35GHz	63	15.75
5570MHz	75	18.75

**For beamforming mode**

Mode	Power Setting	Power Setting (dBm)
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	-	-
5180MHz	67	16.75
5200MHz	67	16.75
5240MHz	68	17
5260MHz	67	16.75
5300MHz	66	16.5
5320MHz	66	16.5
5500MHz	66	16.5
5580MHz	66	16.5
5700MHz	66	16.5
5720MHz Straddle 5.47-5.725GHz	72	18
5720MHz Straddle 5.725-5.85GHz	72	18
5745MHz	101	25.25
5785MHz	102	25.5
5825MHz	103	25.75
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	-	-
5190MHz	67	16.75
5230MHz	67	16.75
5270MHz	67	16.75
5310MHz	66	16.5
5510MHz	66	16.5
5550MHz	66	16.5
5670MHz	66	16.5
5710MHz Straddle 5.47-5.725GHz	69	17.25
5710MHz Straddle 5.725-5.85GHz	69	17.25
5755MHz	101	25.25
5795MHz	102	25.5
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	-	-
5210MHz	61	15.25
5290MHz	66	16.5
5530MHz	66	16.5
5610MHz	66	16.5
5690MHz Straddle 5.47-5.725GHz	68	17
5690MHz Straddle 5.725-5.85GHz	68	17
5775MHz	86	21.5
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	-	-
5250MHz Straddle 5.15-5.25GHz	63	15.75
5250MHz Straddle 5.25-5.35GHz	63	15.75
5570MHz	75	18.75

**4T4S**

Mode	Power Setting	Power Setting (dBm)
802.11ax HEW20_Nss4,(MCS0)_4TX	-	-
5180MHz	66	16.5
5200MHz	66	16.5
5240MHz	67	16.75
5260MHz	65	16.25
5300MHz	65	16.25
5320MHz	65	16.25
5500MHz	65	16.25
5580MHz	65	16.25
5700MHz	65	16.25
5720MHz Straddle 5.47-5.725GHz	72	18
5720MHz Straddle 5.725-5.85GHz	72	18
5745MHz	102	25.5
5785MHz	102	25.5
5825MHz	103	25.75
802.11ax HEW40_Nss4,(MCS0)_4TX	-	-
5190MHz	66	16.5
5230MHz	66	16.5
5270MHz	66	16.5
5310MHz	65	16.25
5510MHz	64	16
5550MHz	65	16.25
5670MHz	65	16.25
5710MHz Straddle 5.47-5.725GHz	69	17.25
5710MHz Straddle 5.725-5.85GHz	69	17.25
5755MHz	102	25.5
5795MHz	103	25.75
802.11ax HEW80_Nss4,(MCS0)_4TX	-	-
5210MHz	67	16.75
5290MHz	66	16.5
5530MHz	65	16.25
5610MHz	65	16.25
5690MHz Straddle 5.47-5.725GHz	68	17
5690MHz Straddle 5.725-5.85GHz	68	17
5775MHz	86	21.5
802.11ax HEW160_Nss4,(MCS0)_4TX	-	-
5250MHz Straddle 5.15-5.25GHz	66	16.5
5250MHz Straddle 5.25-5.35GHz	66	16.5
5570MHz	67	16.75

**For outdoor use (band 1)****For Radio 1:****1T1S**

Mode	Power Setting	PowerSetting (dBm)
802.11a_Nss1,(6Mbps)_1TX	-	-
5180MHz	68	17
5200MHz	69	17.25
5240MHz	70	17.5
802.11ax HEW20_Nss1,(MCS0)_1TX	-	-
5180MHz	67	16.75
5200MHz	68	17
5240MHz	69	17.25
802.11ax HEW40_Nss1,(MCS0)_1TX	-	-
5190MHz	69	17.25
5230MHz	70	17.5
802.11ax HEW80_Nss1,(MCS0)_1TX	-	-
5210MHz	69	17.25

For Radio 2:**1T1S**

Mode	Power Setting	PowerSetting (dBm)
802.11a_Nss1,(6Mbps)_1TX	-	-
5180MHz	66	16.5
5200MHz	65	16.25
5240MHz	66	16.5
802.11ax HEW20_Nss1,(MCS0)_1TX	-	-
5180MHz	65	16.25
5200MHz	64	16
5240MHz	65	16.25
802.11ax HEW40_Nss1,(MCS0)_1TX	-	-
5190MHz	67	16.75
5230MHz	67	16.75
802.11ax HEW80_Nss1,(MCS0)_1TX	-	-
5210MHz	67	16.75

**2T1S**

Mode	Power Setting	PowerSetting (dBm)
802.11a_Nss1,(6Mbps)_2TX	-	-
5180MHz	58	14.5
5200MHz	57	14.25
5240MHz	58	14.5

2T2S

Mode	Power Setting	PowerSetting (dBm)
802.11ax HEW20_Nss2,(MCS0)_2TX	-	-
5180MHz	57	14.25
5200MHz	56	14
5240MHz	58	14.5
802.11ax HEW40_Nss2,(MCS0)_2TX	-	-
5190MHz	57	14.25
5230MHz	58	14.5
802.11ax HEW80_Nss2,(MCS0)_2TX	-	-
5210MHz	59	14.75

**For Radio 3:****2T1S**

Mode	Power Setting	PowerSetting (dBm)
802.11a_Nss1,(6Mbps)_2TX	-	-
5180MHz	67	16.75
5200MHz	67	16.75
5240MHz	68	17

2T2S

Mode	Power Setting	PowerSetting (dBm)
802.11ax HEW20_Nss2,(MCS0)_2TX	-	-
5180MHz	66	16.5
5200MHz	66	16.5
5240MHz	66	16.5
802.11ax HEW40_Nss2,(MCS0)_2TX	-	-
5190MHz	66	16.5
5230MHz	66	16.5
802.11ax HEW80_Nss2,(MCS0)_2TX	-	-
5210MHz	66	16.5
802.11ax HEW160_Nss2,(MCS0)_2TX	-	-
5250MHz Straddle 5.15-5.25GHz	75	18.75
5250MHz Straddle 5.25-5.35GHz	75	18.75

4T1S**For non beamforming mode**

Mode	Power Setting	PowerSetting (dBm)
802.11a_Nss1,(6Mbps)_4TX	-	-
5180MHz	53	13.25
5200MHz	52	13
5240MHz	53	13.25
802.11ax HEW20_Nss1,(MCS0)_4TX	-	-
5180MHz	51	12.75
5200MHz	51	12.75
5240MHz	52	13
802.11ax HEW40_Nss1,(MCS0)_4TX	-	-
5190MHz	51	12.75
5230MHz	51	12.75
802.11ax HEW80_Nss1,(MCS0)_4TX	-	-
5210MHz	50	12.5
802.11ax HEW160_Nss1,(MCS0)_4TX	-	-
5250MHz Straddle 5.15-5.25GHz	62	15.5
5250MHz Straddle 5.25-5.35GHz	62	15.5

**For beamforming mode**

Mode	Power Setting	PowerSetting (dBm)
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	-	-
5180MHz	42	10.5
5200MHz	42	10.5
5240MHz	43	10.75
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	-	-
5190MHz	42	10.5
5230MHz	41	10.25
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	-	-
5210MHz	42	10.5
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	-	-
5250MHz Straddle 5.15-5.25GHz	53	13.25
5250MHz Straddle 5.25-5.35GHz	53	13.25

4T4S

Mode	Power Setting	PowerSetting (dBm)
802.11ax HEW20_Nss4,(MCS0)_4TX	-	-
5180MHz	54	13.5
5200MHz	54	13.5
5240MHz	55	13.75
802.11ax HEW40_Nss4,(MCS0)_4TX	-	-
5190MHz	55	13.75
5230MHz	55	13.75
802.11ax HEW80_Nss4,(MCS0)_4TX	-	-
5210MHz	55	13.75
802.11ax HEW160_Nss4,(MCS0)_4TX	-	-
5250MHz Straddle 5.15-5.25GHz	66	16.5
5250MHz Straddle 5.25-5.35GHz	66	16.5

Note:

- ♦ Evaluated HEW20/HEW40/HEW80/HEW160 mode only, due to similar modulation. The power setting of HT20/HT40/VHT20/VHT40/VHT80/VHT160 mode are the same or lower than HEW20/HEW40/HEW80/HEW160.
- ♦ There are two modes of EUT, one is beamforming mode, and the other is Non-beamforming mode for n/ax in 2.4GHz and n/ac/ax in 5GHz. Only non beamforming mode was tested and recorded in this report.
- ♦ For conducted measurement, additional evaluation of the 4T1S BF mode of 5GHz.



2.2 The Worst Case Measurement Configuration

The Worst Case Mode for Following Conformance Tests	
Tests Item	AC power-line conducted emissions
Condition	AC power-line conducted measurement for line and neutral Test Voltage: 120Vac / 60Hz
Operating Mode	CTX
1	Radio 1_2.4GHz
2	Radio 1_5GHz
3	Radio 2_2.4GHz
4	Radio 2_5GHz
5	Radio 3_5GHz
For operating mode 1 is the worst case and it was record in this test report.	

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
Operating Mode	Refer to note 1

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	Radio 1_2.4GHz_EUT in Y axis
2	Radio 1_5GHz_EUT in Z axis
3	Radio 2_2.4GHz_EUT in X axis
4	Radio 2_5GHz_EUT in X axis
5	Radio 3_5GHz_EUT in X axis
For operating mode 5 is the worst case and it was record in this test report.	
Operating Mode > 1GHz	CTX 1. For Radio 1 / 1T1S, Radio 2 / 1T1S The EUT was performed at X axis, Y axis and Z axis and the worst case was found at Z axis. So the measurement will follow this same test configuration. 2. For Radio 2 / 2T1S and 2T2S, Radio 3 The EUT was performed at X axis, Y axis and Z axis and the worst case was found at X axis. So the measurement will follow this same test configuration. 3. Refer to note 1 for detail operating mode
1	Radio 1_1T1S_EUT in Z axis
2	Radio 2_1T1S_EUT in Z axis
3	Radio 2_2T1S_EUT in X axis
4	Radio 2_2T2S_EUT in X axis
5	Radio 3_1T1S_EUT in X axis
6	Radio 3_2T1S_EUT in X axis
7	Radio 3_2T2S_EUT in X axis
8	Radio 3_4T1S_EUT in X axis
9	Radio 3_4T4S_EUT in X axis

The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis - Radiated Emission Co-location
Test Condition	Radiated measurement
Operating Mode	Normal Link
1	Radio 3_WLAN 5GHz + Bluetooth
Refer to Appendix F for Radiated Emission Co-location.	



Note 1: Test Mode

Test Item	Test Mode									
	802.11a				802.11ax HEW20/40/80/160					
	1T1S	CDD 2T1S	CDD 2T2S	CDD 4T1S	1T1S	CDD 2T1S	CDD 2T2S	CDD 4T4S	CDD 4T1S	TxBF 4T1S
Maximum Conducted Output Power	V	V	-	V	V	Note 2	V	V	V	V
Emission Bandwidth	V	V	-	V	V	Note 2	V	V	V	V
Peak Power Spectral Density	V	V	-	V	V	Note 2	V	V	V	V
Radiated Emission	V	V	-	V	V	Note 2	V	V	V	-
Band Edge Emission	V	V	-	V	V	Note 2	V	V	V	-

Note 2: 802.11ax HEW20/40/80/160 2T1S CDD mode was covered by 802.11ax HEW20/40/80/160 2T2S, due to
 $2T1S = \min(2T2S, (2T2S - (10 \cdot \log(2/1) - 2T2S \text{ (worst case of PSD/BE/Harmonic) MARGIN})))$.

Note 3: The PoE is for measurement only, would not be marketed.

PoE information as below:

Power	Brand	Model
PoE	Microsemi	PD-9001GR/AT/AC

2.3 EUT Operation during Test

For CTX Mode:

The EUT was programmed to be in continuously transmitting mode.

For Normal Link:

During the test, the EUT operation to normal function.

2.4 Accessories

N/A



2.5 Support Equipment

For AC Conduction:

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	PoE	Microsemi	PD-9001GR/AT/AC	N/A
B	LAN NB	DELL	E6430	N/A
C	Flash disk3.0	Transcend	JetFlash-700	N/A

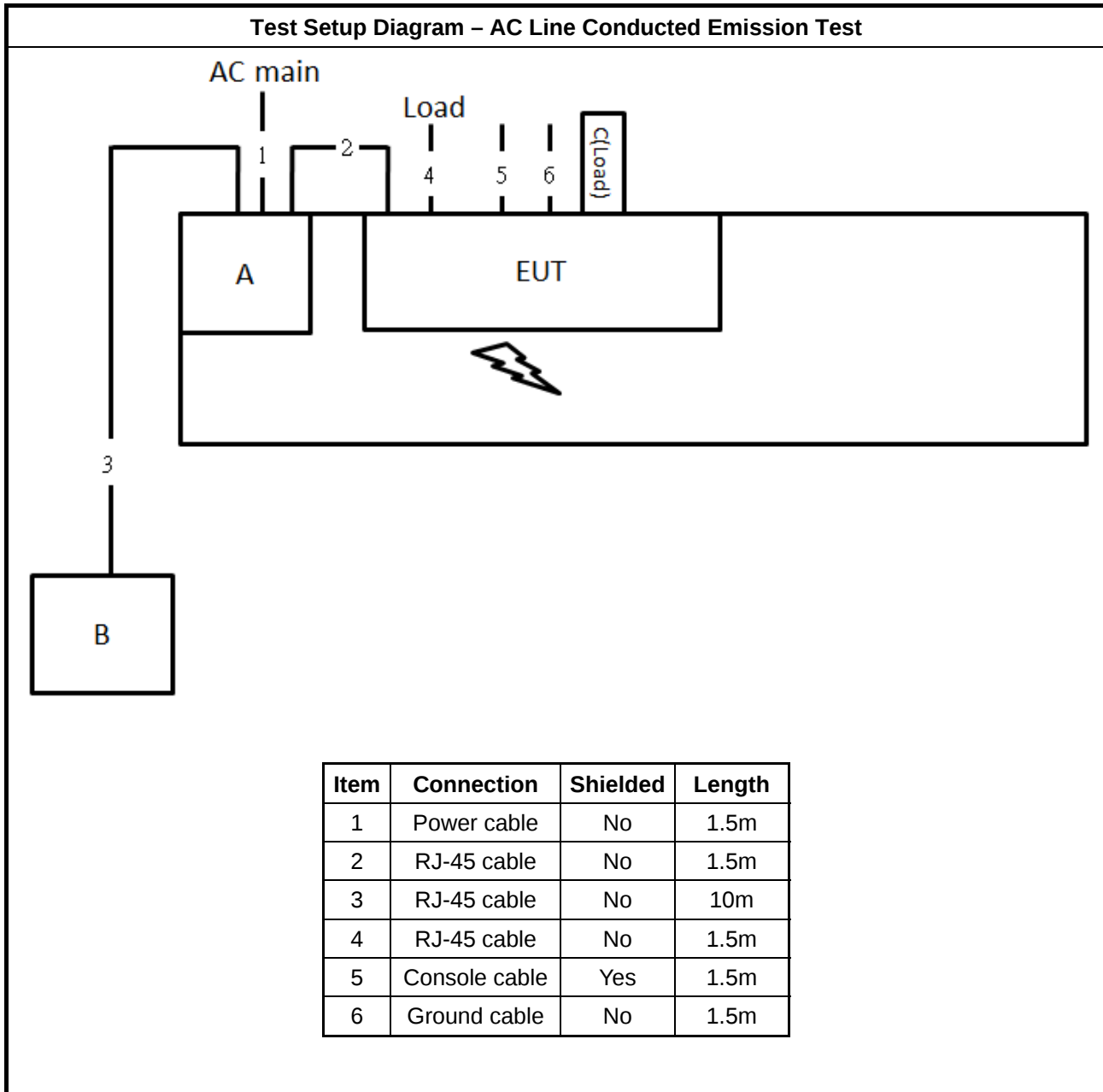
For Radiated:

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	PoE	Microsemi	PD-9001GR/AT/AC	N/A
B	Notebook	DELL	E4300	N/A

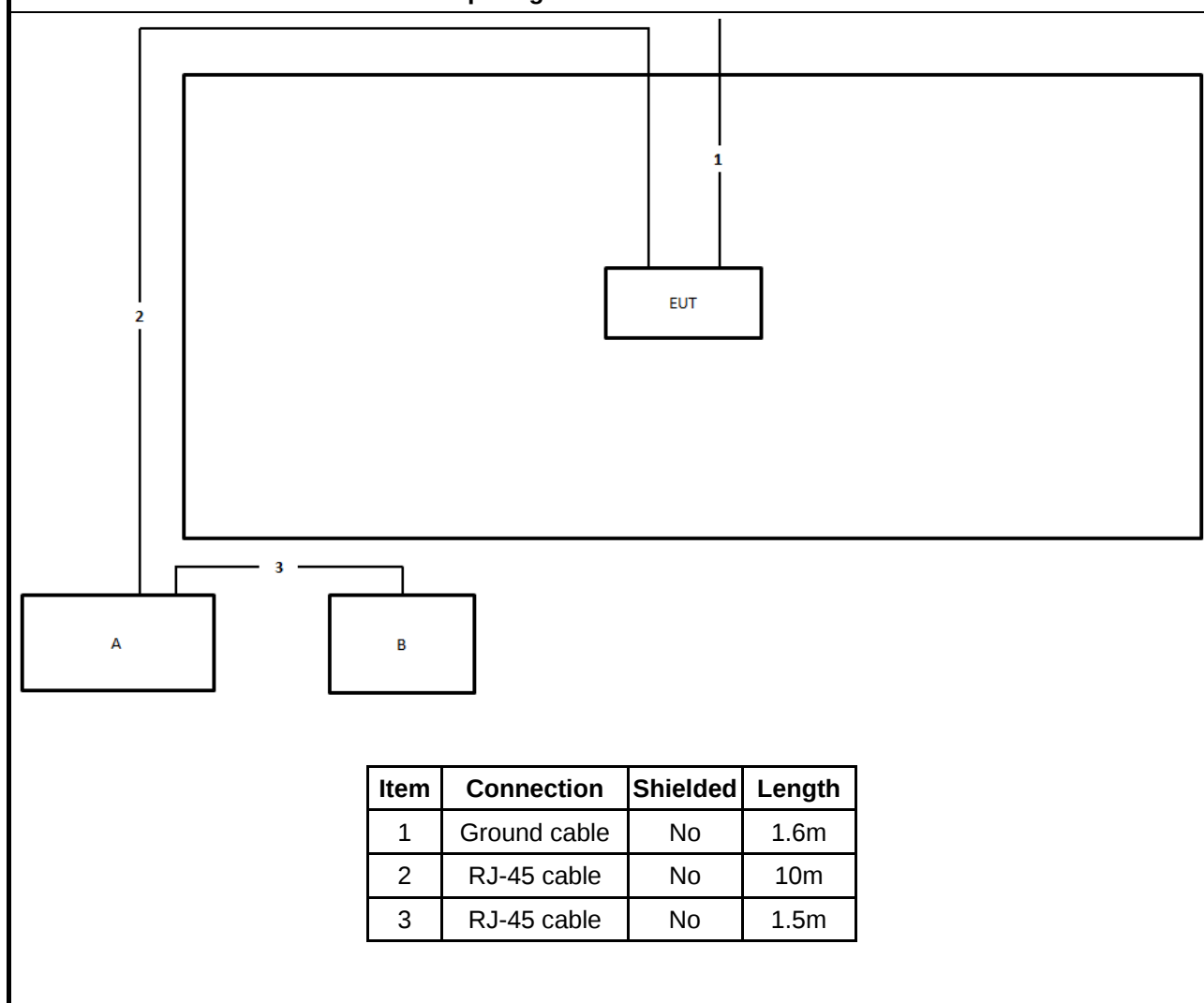
For RF Conducted:

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	Notebook	DELL	E4300	N/A
B	PoE	Microsemi	PD-9001GR/AT/AC	N/A

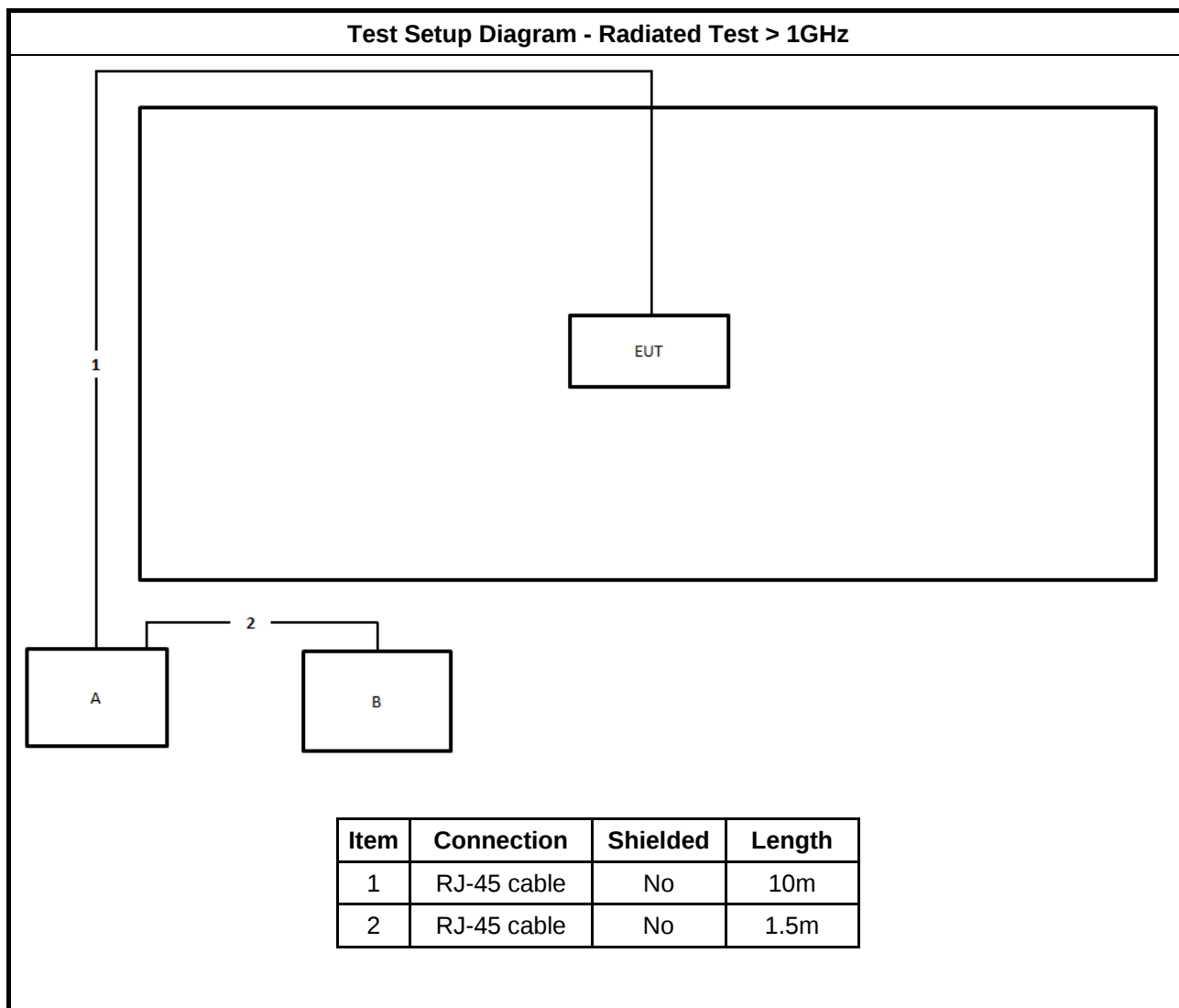
2.6 Test Setup Diagram



Test Setup Diagram - Radiated Test < 1GHz



Test Setup Diagram - Radiated Test > 1GHz



3 Transmitter Test Result

3.1 AC Power-line Conducted Emissions

3.1.1 AC Power-line Conducted Emissions Limit

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

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

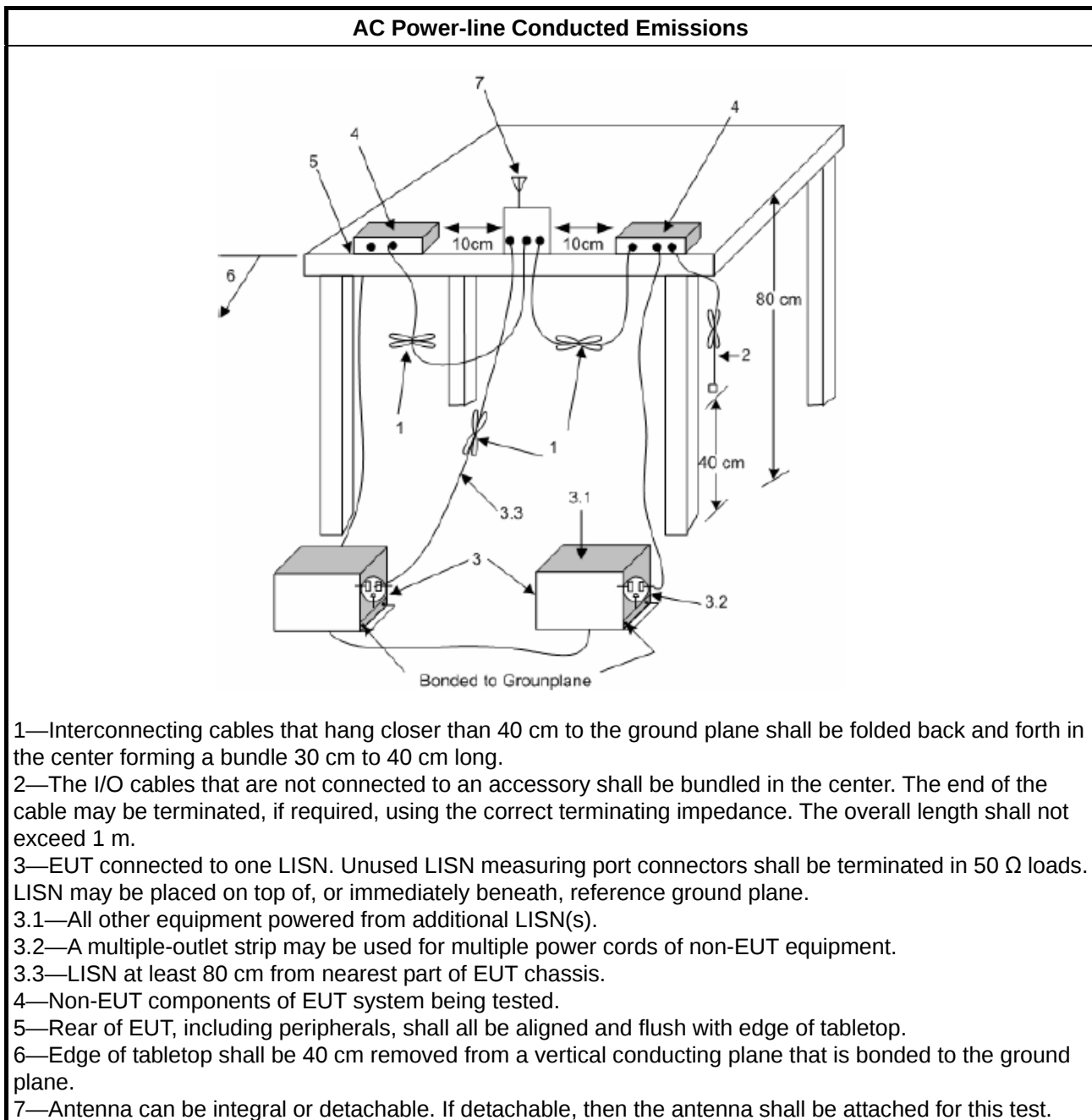
3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

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

3.1.4 Test Setup



3.1.5 Measurement Results Calculation

The measured Level is calculated using:

- Corrected Reading: LISN Factor (LISN) + Attenuator (AT/AUX) + Cable Loss (CL) + Read Level (Raw) = Level
- Margin = -Limit + Level

3.1.6 Test Result of AC Power-line Conducted Emissions

Refer as Appendix A

3.2 Emission Bandwidth

3.2.1 Emission Bandwidth Limit

Emission Bandwidth Limit	
UNII Devices	
☒	For the 5.15-5.25 GHz band, N/A
☒	For the 5.25-5.35 GHz band, the maximum conducted output power shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, where B is the 26 dB emission bandwidth in MHz.
☒	For the 5.47-5.725 GHz band, the maximum conducted output power shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, where B is the 26 dB emission bandwidth in MHz.
☒	For the 5.725-5.85 GHz band, 6 dB emission bandwidth $\geq 500\text{kHz}$.
LE-LAN Devices	
☐	For the band 5.15-5.25 GHz, the maximum e.i.r.p. shall not exceed 200 mW or $10 + 10 \log B$, dBm, whichever power is less. B is the 99% emission bandwidth in MHz.
☐	For the 5.25-5.35 GHz band, the maximum e.i.r.p. shall not exceed 1.0 W or $17 + 10 \log B$, dBm, whichever power is less. B is the 99% emission bandwidth in MHz
☐	For the 5.47-5.6 GHz band and 5.65-5.725 GHz band, the maximum e.i.r.p. shall not exceed 1.0 W or $17 + 10 \log B$, dBm, whichever power is less. B is the 99% emission bandwidth in MHz
☐	For the 5.725-5.85 GHz band, 6 dB emission bandwidth $\geq 500\text{kHz}$.

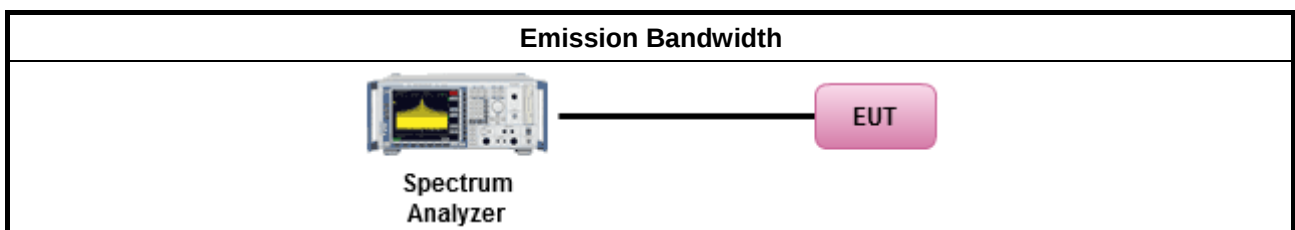
3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

Test Method	
For the emission bandwidth shall be measured using one of the options below:	
☒	Refer as FCC KDB 789033, clause C for EBW and clause D for OBW measurement.
☐	Refer as ANSI C63.10, clause 6.9.1 for occupied bandwidth testing.
☐	Refer as IC RSS-Gen, clause 4.6 for bandwidth testing.

3.2.4 Test Setup



3.2.5 Test Result of Emission Bandwidth

Refer as Appendix B

3.3 Maximum Conducted Output Power

3.3.1 Maximum Conducted Output Power Limit

Maximum Conducted Output Power Limit	
UNII Devices	
☒ For the 5.15-5.25 GHz band:	
	- Outdoor AP: the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W. If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)$. e.i.r.p. at any elevation angle above 30 degrees ≤ 125mW [21dBm] - Indoor AP: the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W. If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)$ - Point-to-point AP: the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W. If $G_{TX} > 23$ dBi, then $P_{Out} = 30 - (G_{TX} - 23)$. - Mobile or Portable Client: the maximum conducted output power (P_{Out}) shall not exceed the lesser of 250 mW. If $G_{TX} > 6$ dBi, then $P_{Out} = 24 - (G_{TX} - 6)$.
☒ For the 5.25-5.35 GHz band, the maximum conducted output power (P_{Out}) shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in MHz. If $G_{TX} > 6$ dBi, then $P_{Out} = 24 - (G_{TX} - 6)$.	
☒ For the 5.47-5.725 GHz band, the maximum conducted output power (P_{Out}) shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in MHz. If $G_{TX} > 6$ dBi, then $P_{Out} = 24 - (G_{TX} - 6)$.	
☒ For the 5.725-5.85 GHz band:	
	- Point-to-multipoint systems (P2M): the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W. If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)$. - Point-to-point systems (P2P): the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W.
LE-LAN Devices	
☐ For the 5.15-5.25 GHz band, the maximum e.i.r.p. shall not exceed 200 mW or 10 + 10 log B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz.	
☐ For the 5.25-5.35 GHz band, the maximum e.i.r.p. shall not exceed 1.0 W or 17 + 10 log B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz	
☐ For the 5.47-5.6 GHz band and 5.65-5.725 GHz band, the maximum e.i.r.p. shall not exceed 1.0 W or 17 + 10 log B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz	
☐ For the 5.725-5.85 GHz band:	
	- Point-to-multipoint systems (P2M): the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W. If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)$. - Point-to-point systems (P2P): the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W.
P_{Out} = maximum conducted output power in dBm, G_{TX} = the maximum transmitting antenna directional gain in dBi.	

3.3.2 Measuring Instruments

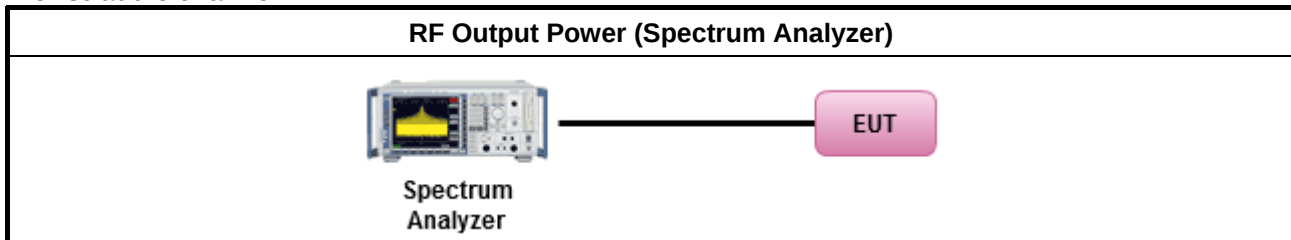
Refer a test equipment and calibration data table in this test report.

3.3.3 Test Procedures

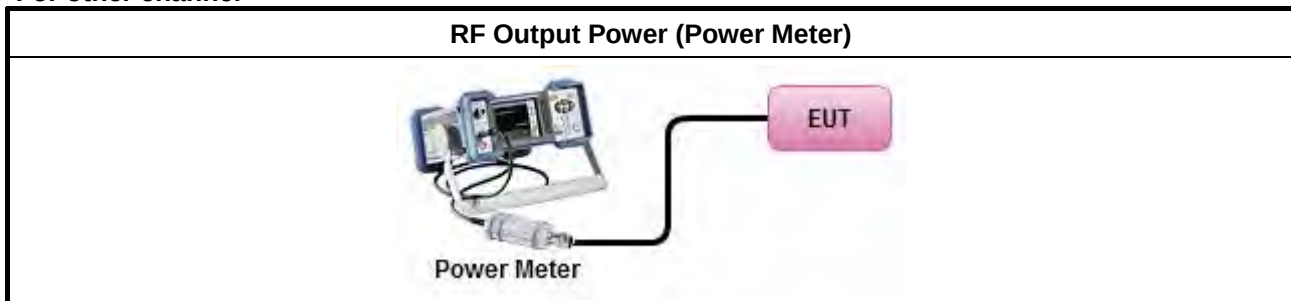
Test Method	
Maximum Conducted Output Power	
	Average over on/off periods with duty factor
☒	Refer as FCC KDB 789033, clause E Method SA-2 (spectral trace averaging).
☐	Refer as FCC KDB 789033, clause E Method SA-2 Alt. (RMS detection with slow sweep speed)
	Wideband RF power meter and average over on/off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

3.3.4 Test Setup

For straddle channel



For other channel



3.3.5 Test Result of Maximum Conducted Output Power

Refer as Appendix C



3.4 Peak Power Spectral Density

3.4.1 Peak Power Spectral Density Limit

Peak Power Spectral Density Limit	
UNII Devices	
☒ For the 5.15-5.25 GHz band:	
	- Outdoor AP: the peak power spectral density (PPSD) shall not exceed the lesser of 17dBm/MHz. If $G_{TX} > 6$ dBi, then $P_{Out} = 17 - (G_{TX} - 6)$. - Indoor AP: the peak power spectral density (PPSD) shall not exceed the lesser of 17dBm/MHz. If $G_{TX} > 6$ dBi, then $P_{Out} = 17 - (G_{TX} - 6)$. - Point-to-point AP: the peak power spectral density (PPSD) shall not exceed the lesser of 17dBm/MHz. If $G_{TX} > 23$ dBi, then $P_{Out} = 17 - (G_{TX} - 23)$. - Mobile or Portable Client: the peak power spectral density (PPSD) ≤ 11 dBm/MHz. If $G_{TX} > 6$ dBi, then $PPSD = 11 - (G_{TX} - 6)$.
☒ For the 5.25-5.35 GHz band, the peak power spectral density (PPSD) ≤ 11 dBm/MHz. If $G_{TX} > 6$ dBi, then $PPSD = 11 - (G_{TX} - 6)$.	
☒ For the 5.47-5.725 GHz band, the peak power spectral density (PPSD) ≤ 11 dBm/MHz. If $G_{TX} > 6$ dBi, then $PPSD = 11 - (G_{TX} - 6)$.	
☒ For the 5.725-5.85 GHz band:	
	- Point-to-multipoint systems (P2M): the peak power spectral density (PPSD) ≤ 30 dBm/500kHz. If $G_{TX} > 6$ dBi, then $PPSD = 30 - (G_{TX} - 6)$. - Point-to-point systems (P2P): the peak power spectral density (PPSD) ≤ 30 dBm/500kHz.
LE-LAN Devices	
☐ For the 5.15-5.25 GHz band, the e.i.r.p. peak power spectral density (PPSD) ≤ 10 dBm/MHz.	
☐ For the 5.25-5.35 GHz band, the peak power spectral density (PPSD) ≤ 11 dBm/MHz.	
	e.i.r.p. greater than 200 mW shall comply with the following e.i.r.p. at different elevations, where θ is the angle above the local horizontal plane (of the Earth) as shown below: -13 dBW/MHz for $0^\circ \leq \theta < 8^\circ$; -13 - 0.716 (θ-8) dBW/MHz for $8^\circ \leq \theta < 40^\circ$ -35.9 - 1.22 (θ-40) dBW/MHz for $40^\circ \leq \theta \leq 45^\circ$; -42 dBW/MHz for $\theta > 45^\circ$
☐ For the 5.47-5.6 GHz band and 5.65-5.725 GHz band, the peak power spectral density (PPSD) ≤ 11 dBm/MHz.	
☐ For the 5.725-5.85 GHz band:	
	- Point-to-multipoint systems (P2M): the peak power spectral density (PPSD) ≤ 30 dBm/500kHz. If $G_{TX} > 6$ dBi, then $PPSD = 30 - (G_{TX} - 6)$. - Point-to-point systems (P2P): the peak power spectral density (PPSD) ≤ 30 dBm/500kHz.
PPSD = peak power spectral density that he same method as used to determine the conducted output power shall be used to determine the power spectral density. And power spectral density in dBm/MHz G_{TX} = the maximum transmitting antenna directional gain in dBi.	

3.4.2 Measuring Instruments

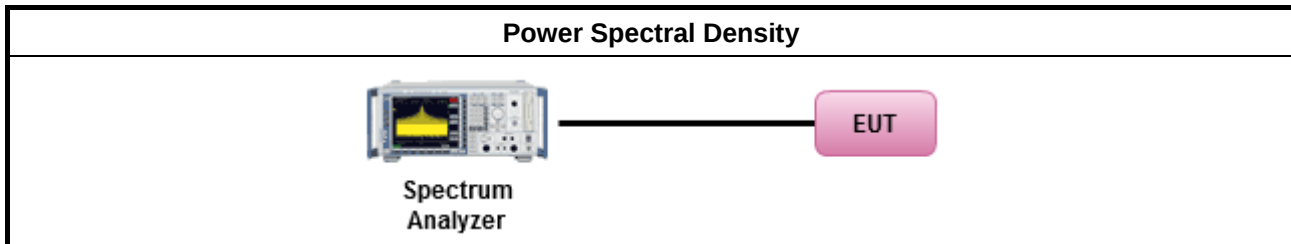
Refer a test equipment and calibration data table in this test report.



3.4.3 Test Procedures

Test Method	
Peak power spectral density procedures that the same method as used to determine the conducted output power shall be used to determine the peak power spectral density and use the peak search function on the spectrum analyzer to find the peak of the spectrum. For the peak power spectral density shall be measured using below options:	
☐	Refer as FCC 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% or external video / power trigger]	
☒	Refer as FCC KDB 789033, clause E Method SA-1 (spectral trace averaging).
☐	Refer as FCC KDB 789033, clause E Method SA-1 Alt. (RMS detection with slow sweep speed)
duty cycle < 98% and average over on/off periods with duty factor	
☒	Refer as FCC KDB 789033, clause E Method SA-2 (spectral trace averaging).
☐	Refer as FCC 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:	
☒	Option 1: Measure and sum the spectra across the outputs. Refer as FCC 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.
☐	Option 2: Measure and sum spectral maxima across the outputs. With this technique, spectra are measured at each output of the device at the required resolution bandwidth. The maximum value (peak) of each spectrum is determined. These maximum values are then summed mathematically in linear power units across the outputs. These operations shall be performed separately over frequency spans that have different out-of-band or spurious emission limits,
☐	Option 3: Measure and add 10 log(N) dB, where N is the number of transmit chains. Refer as FCC KDB 662911, In-band power spectral density (PSD). Performed at each transmit chains and each transmit chains shall be compared with the limit have been reduced with 10 log(N). Or each transmit chains shall be add 10 log(N) to compared with the limit.
☐	If multiple transmit chains, EIRP PPSD calculation could be following as methods: $PPSD_{total} = PPSD_1 + PPSD_2 + \dots + PPSD_n$ (calculated in linear unit [mW] and transfer to log unit [dBm]) $EIRP_{total} = PPSD_{total} + DG$

3.4.4 Test Setup



3.4.5 Test Result of Peak Power Spectral Density

Refer as Appendix D



3.5 Unwanted Emissions

3.5.1 Transmitter 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	all emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

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



linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements).

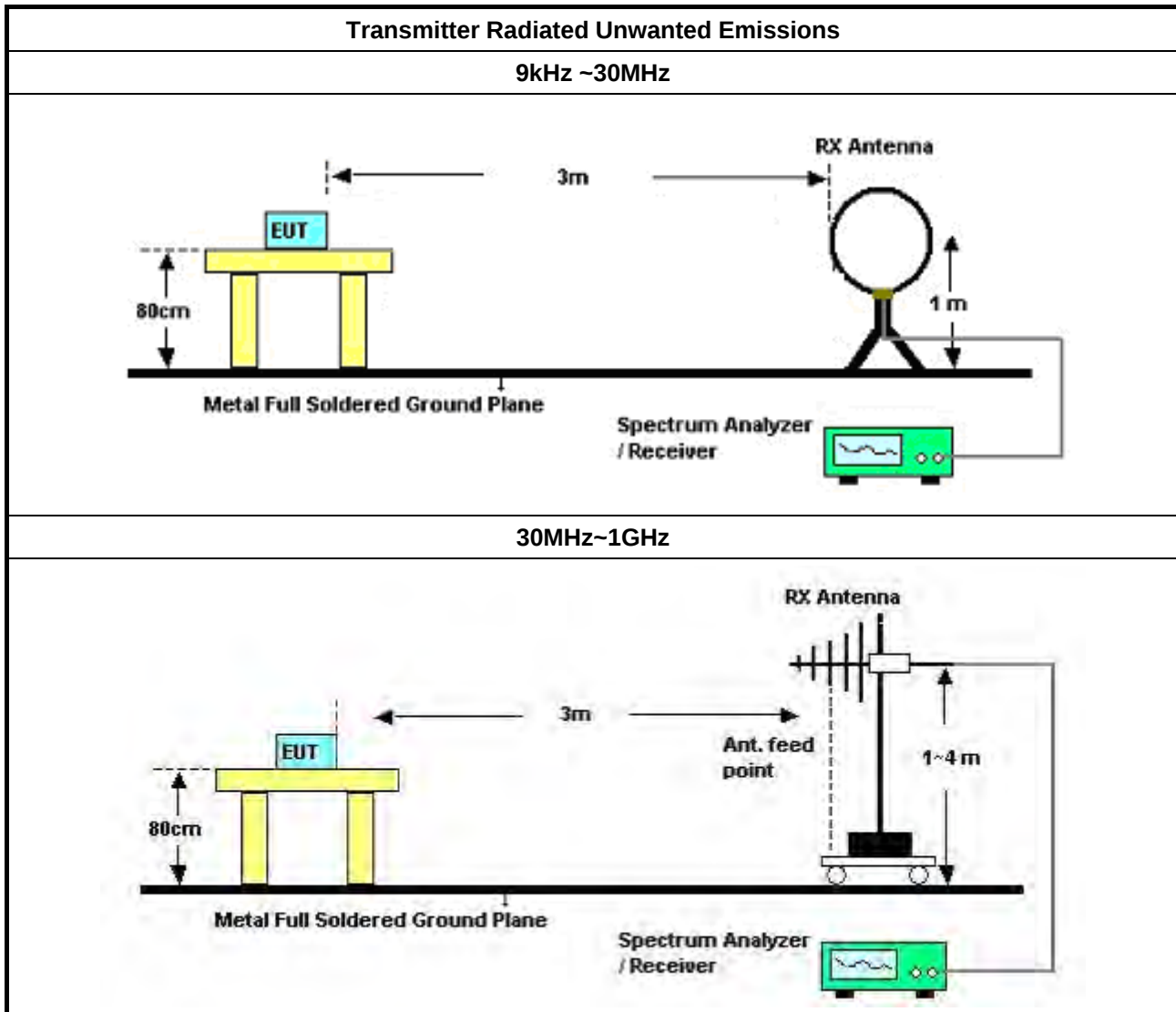
3.5.2 Measuring Instruments

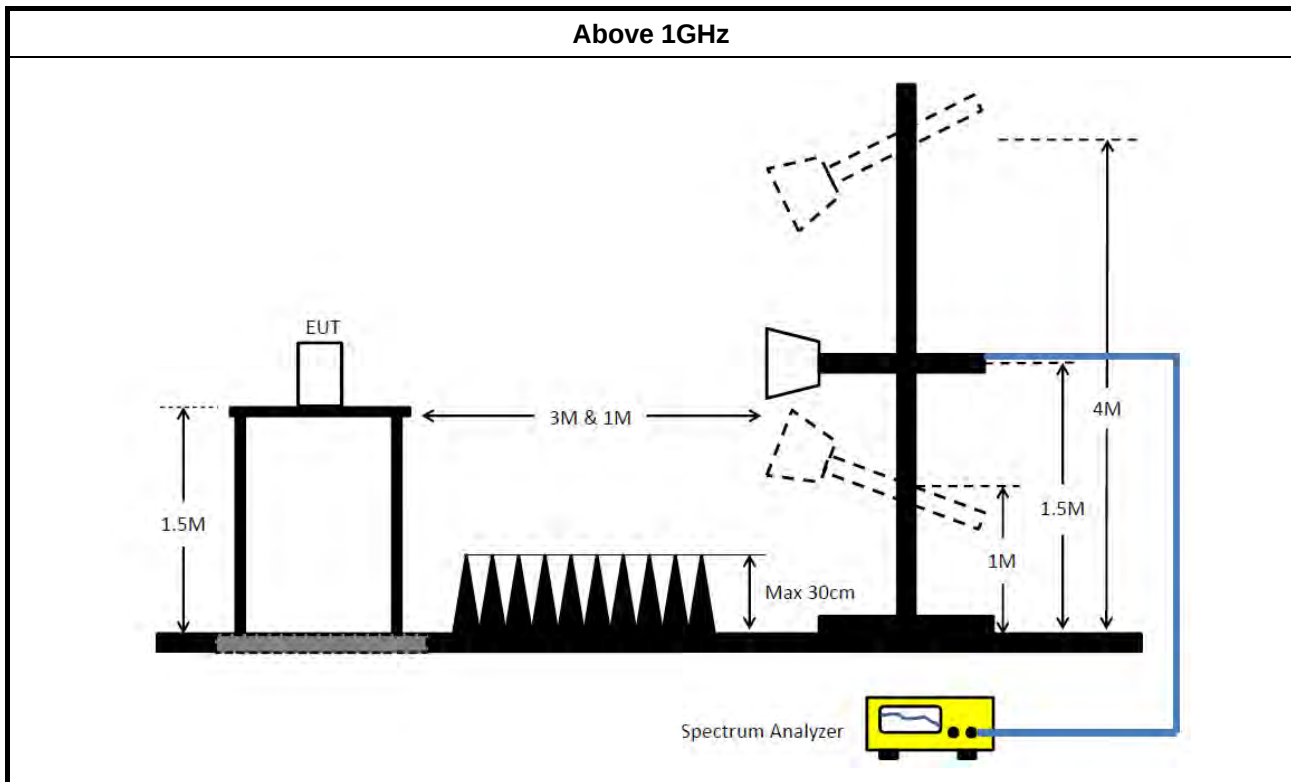
Refer a test equipment and calibration data table in this test report.

3.5.3 Test Procedures

Test Method	
Measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. Measurements shall not be performed at a distance greater than 30 m for frequencies above 30 MHz, unless it can be further demonstrated that measurements at a distance of 30 m or less are impractical. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements).	
The average emission levels shall be measured in [duty cycle ≥ 98 or duty factor].	
For the transmitter unwanted emissions shall be measured using following options below:	
	Refer as FCC KDB 789033, clause G)2) for unwanted emissions into non-restricted bands.
	Refer as FCC KDB 789033, clause G)1) for unwanted emissions into restricted bands.
	☐ Refer as FCC KDB 789033, G)6) Method AD (Trace Averaging).
	☒ Refer as FCC KDB 789033, G)6) Method VB (Reduced VBW).
	☐ Refer as ANSI C63.10, clause 11.12.2.5.3 (Reduced VBW). VBW $\geq 1/T$, where T is pulse time.
	☐ Refer as ANSI C63.10, clause 7.5 average value of pulsed emissions.
	☒ Refer as FCC KDB 789033, clause G)5) measurement procedure peak limit.
☐ Refer as 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.	

3.5.4 Test Setup





3.5.5 Measurement Results Calculation

The measured Level is calculated using:

Corrected Reading: Antenna factor (AF) + Cable loss (CL) + Read level (Raw) - Preamp factor (PA)(if applicable) = Level.

3.5.6 Transmitter Unwanted Emissions (Below 30MHz)

There is a comparison data of both open-field test site and alternative test site - semi-Anechoic chamber according to KDB414788 Radiated Test Site, and the result came out very similar.

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

The radiated emissions were investigated from 9 kHz or the lowest frequency generated within the device, up to the 10th harmonic or 40 GHz, whichever is appropriate.

3.5.7 Test Result of Transmitter Unwanted Emissions

Refer as Appendix E



4 Test Equipment and Calibration Data

Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
LISN	Schwarzbeck	NSLK 8127	8127650	9kHz ~ 30MHz	Dec. 04, 2020	Dec. 03, 2021	Conduction (CO02-CB)
LISN	Schwarzbeck	NSLK 8127	8127478	9kHz ~ 30MHz	Nov. 20, 2020	Nov. 19, 2021	Conduction (CO02-CB)
EMI Receiver	Agilent	N9038A	MY52260140	9kHz ~ 8.4GHz	May 05, 2021	May 04, 2022	Conduction (CO02-CB)
COND Cable	Woken	Cable	2	0.15MHz~30MHz	Oct. 20, 2020	Oct. 19, 2021	Conduction (CO02-CB)
Pulse Limiter	Schwarzbeck	VTSD 9561F-N	00378	9kHz ~ 30MHz	Mar. 18, 2021	Mar. 17, 2022	Conduction (CO02-CB)
Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Conduction (CO02-CB)
Loop Antenna	Teseq	HLA 6120	31244	9kHz - 30 MHz	Mar. 16, 2021	Mar. 15, 2022	Radiation (03CH05-CB)
3m Semi Anechoic Chamber NSA	TDK	SAC-3M	03CH05-CB	30 MHz ~ 1 GHz	Aug. 10, 2020	Aug. 09, 2021	Radiation (03CH05-CB)
Bilog Antenna with 6dB Attenuator	TESEQ & EMCI	CBL 6112D & N-6-06	35236 & AT-N0610	30MHz ~ 2GHz	Mar. 27, 2020	Mar. 26, 2021	Radiation (03CH05-CB)
Bilog Antenna with 6dB Attenuator	TESEQ & EMCI	CBL 6112D & N-6-06	35236 & AT-N0610	30MHz ~ 2GHz	Mar. 26, 2021	Mar. 25, 2022	Radiation (03CH05-CB)
Horn Antenna	SCHWARZBECK	BBHA9120D	BBHA 9120 D-1291	1GHz~18GHz	Sep. 05, 2020	Sep. 04, 2021	Radiation (03CH05-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Jul. 21, 2020	Jul. 20, 2021	Radiation (03CH05-CB)
Pre-Amplifier	EMCI	EMC330N	980331	20MHz ~ 3GHz	Apr. 28, 2020	Apr. 27, 2021	Radiation (03CH05-CB)
Pre-Amplifier	EMCI	EMC330N	980331	20MHz ~ 3GHz	Apr. 27, 2021	Apr. 26, 2022	Radiation (03CH05-CB)
Pre-Amplifier	EMCI	EMC12630SE	980287	1GHz ~ 26.5GHz	Jul. 03, 2020	Jul. 02, 2021	Radiation (03CH05-CB)
Pre-Amplifier	EMCI	EMC12630SE	980287	1GHz ~ 26.5GHz	Jul. 02, 2021	Jul. 01, 2022	Radiation (03CH05-CB)
Pre-Amplifier	MITEQ	TTA1840-35-H G	1864479	18GHz ~ 40GHz	Jul. 08, 2020	Jul. 07, 2021	Radiation (03CH05-CB)
Amplifier	-	-	TF-130N-R1	18GHz ~ 40GHz	Jun.15, 2021	Jun. 14, 2022	Radiation (03CH05-CB)
Spectrum Analyzer	R&S	FSP40	100304	9kHz ~ 40GHz	Nov. 10, 2020	Nov. 09, 2021	Radiation (03CH05-CB)
EMI Test Receiver	R&S	ESR7	102171	9kHz ~ 26GHz	Jul. 01, 2020	Jun. 30, 2021	Radiation (03CH05-CB)
EMI Test Receiver	R&S	ESCS	826547/017	9kHz ~ 2.75GHz	Jun. 21, 2021	Jun. 20, 2022	Radiation (03CH05-CB)
RF Cable-low	Woken	RG402	Low Cable-04+23	30MHz~1GHz	Oct. 05, 2020	Oct. 04, 2021	Radiation (03CH05-CB)



Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
RF Cable-high	Woken	RG402	High Cable-28	1GHz~18GHz	Oct. 05, 2020	Oct. 04, 2021	Radiation (03CH05-CB)
RF Cable-high	Woken	RG402	High Cable-04+28	1GHz~18GHz	Oct. 05, 2020	Oct. 04, 2021	Radiation (03CH05-CB)
RF Cable-high	Woken	RG402	High Cable-40G#1	18GHz ~ 40 GHz	Jul. 16, 2020	Jul. 15, 2021	Radiation (03CH05-CB)
RF Cable-high	Woken	RG402	High Cable-40G#2	18GHz ~ 40 GHz	Jul. 16, 2020	Jul. 15, 2021	Radiation (03CH05-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH05-CB)
3m Semi Anechoic Chamber VSWR	TDK	SAC-3M	03CH01-CB	1GHz ~18GHz 3m	May 29, 2020	May 28, 2021	Radiation (03CH01-CB)
3m Semi Anechoic Chamber VSWR	TDK	SAC-3M	03CH01-CB	1GHz ~18GHz 3m	May 07, 2021	May 06, 2022	Radiation (03CH01-CB)
Horn Antenna	ETS-LINDGREN	3115	00075790	750MHz ~ 18GHz	Nov. 06, 2020	Nov. 05, 2021	Radiation (03CH01-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Jul. 21, 2020	Jul. 20, 2021	Radiation (03CH01-CB)
Pre-Amplifier	Agilent	8449B	3008A02310	1GHz ~ 26.5GHz	Jan. 07, 2021	Jan. 06, 2022	Radiation (03CH01-CB)
Pre-Amplifier	MITEQ	TTA1840-35-HG	1864479	18GHz ~ 40GHz	Jul. 08, 2020	Jul. 07, 2021	Radiation (03CH01-CB)
Amplifier	-	-	TF-130N-R1	18GHz ~ 40GHz	Jun.15, 2021	Jun. 14, 2022	Radiation (03CH01-CB)
Spectrum Analyzer	R&S	FSP40	100056	9kHz ~ 40GHz	May 03, 2021	May 02, 2022	Radiation (03CH01-CB)
Signal Analyzer	R&S	FSV40	101903	9kHz ~ 40GHz	Mar. 22, 2021	Mar. 21, 2022	Radiation (03CH01-CB)
EMI Test Receiver	R&S	ESCS	826547/017	9kHz ~ 2.75GHz	Jun. 21, 2021	Jun. 20, 2022	Radiation (03CH01-CB)
EMI Test Receiver	R&S	ESR7	102171	9kHz ~ 26GHz	Jul. 01, 2020	Jun. 30, 2021	Radiation (03CH01-CB)
RF Cable-high	Woken	RG402	High Cable-16	1 GHz ~ 18 GHz	Oct. 05, 2020	Oct. 04, 2021	Radiation (03CH01-CB)
RF Cable-high	Woken	RG402	High Cable-16+17	1 GHz ~ 18 GHz	Oct. 05, 2020	Oct. 04, 2021	Radiation (03CH01-CB)
RF Cable-high	Woken	RG402	High Cable-40G#1	18GHz ~ 40 GHz	Jul. 16, 2020	Jul. 15, 2021	Radiation (03CH01-CB)
RF Cable-high	Woken	RG402	High Cable-40G#2	18GHz ~ 40 GHz	Jul. 16, 2020	Jul. 15, 2021	Radiation (03CH01-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH01-CB)
3m Semi Anechoic Chamber VSWR	RIKEN	SAC-3M	03CH02-CB	1GHz ~18GHz 3m	Mar. 27, 2021	Mar. 26, 2022	Radiation (03CH02-CB)



Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
Horn Antenna	EMCO	3115	9610-4976	1GHz ~ 18GHz	May 04, 2021	May 03, 2022	Radiation (03CH02-CB)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1370	1GHz~18GHz	Sep. 21, 2020	Sep. 20, 2021	Radiation (03CH02-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Jul. 21, 2020	Jul. 20, 2021	Radiation (03CH02-CB)
Pre-Amplifier	Agilent	83017A	MY39501305	1GHz ~ 26.5GHz	Jul. 13, 2020	Jul. 12, 2021	Radiation (03CH02-CB)
Pre-Amplifier	MITEQ	TTA1840-35-H G	1864479	18GHz ~ 40GHz	Jul. 08, 2020	Jul. 07, 2021	Radiation (03CH02-CB)
Amplifier	-	-	TF-130N-R1	18GHz ~ 40GHz	Jun.15, 2021	Jun. 14, 2022	Radiation (03CH02-CB)
Spectrum analyzer	R&S	FSU	100015	9kHz~26GHz	Oct. 15, 2020	Oct. 14, 2021	Radiation (03CH02-CB)
RF Cable-high	Woken	RG402	High Cable-18	1GHz ~ 18GHz	Oct. 05, 2020	Oct. 04, 2021	Radiation (03CH02-CB)
RF Cable-high	Woken	RG402	High Cable-18+19	1GHz ~ 18GHz	Oct. 05, 2020	Oct. 04, 2021	Radiation (03CH02-CB)
RF Cable-high	Woken	RG402	High Cable-40G#1	18GHz ~ 40 GHz	Jul. 16, 2020	Jul. 15, 2021	Radiation (03CH02-CB)
RF Cable-high	Woken	RG402	High Cable-40G#2	18GHz ~ 40 GHz	Jul. 16, 2020	Jul. 15, 2021	Radiation (03CH02-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH02-CB)
Spectrum analyzer	R&S	FSV40	101028	9kHz~40GHz	Dec. 31, 2020	Dec. 30, 2021	Conducted (TH03-CB)
Power Sensor	Anritsu	MA2411B	1726195	300MHz~40GHz	Aug. 17, 2020	Aug. 16, 2021	Conducted (TH03-CB)
Power Meter	Anritsu	ML2495A	1035008	300MHz~40GHz	Aug. 17, 2020	Aug. 16, 2021	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-11	1 GHz ~18 GHz	Oct. 05, 2020	Oct. 04, 2021	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-12	1 GHz ~18 GHz	Oct. 05, 2020	Oct. 04, 2021	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-13	1 GHz ~18 GHz	Oct. 05, 2020	Oct. 04, 2021	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-14	1 GHz ~18 GHz	Oct. 05, 2020	Oct. 04, 2021	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-15	1 GHz ~18 GHz	Oct. 05, 2020	Oct. 04, 2021	Conducted (TH03-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Conducted (TH03-CB)

Note: Calibration Interval of instruments listed above is one year.

N.C.R. means Non-Calibration required.



Conducted Emissions at Powerline

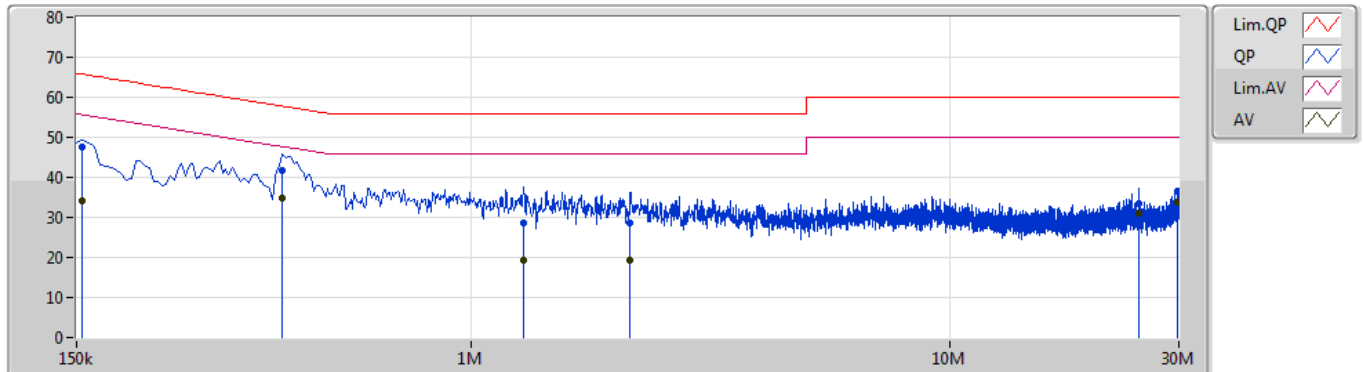
Appendix A

Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	AV	433.5k	36.52	47.19	-10.67	Neutral

Mode 1

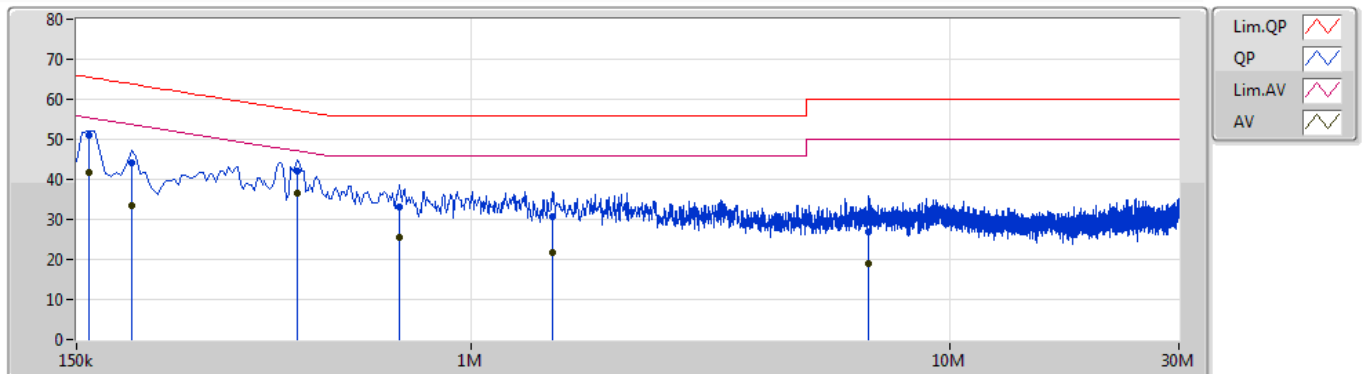
28/06/2021



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	154.5k	47.64	65.75	-18.11	10.29	Line	-	37.35	0.07	0.07	10.15			
AV	154.5k	34.22	55.75	-21.53	10.29	Line	-	23.93	0.07	0.07	10.15			
QP	402k	41.59	57.82	-16.23	10.25	Line	-	31.34	0.08	0.06	10.11			
AV	402k	34.81	47.82	-13.01	10.25	Line	"Worst"	24.56	0.08	0.06	10.11			
QP	1.289M	28.53	56.00	-27.47	10.30	Line	-	18.23	0.10	0.09	10.11			
AV	1.289M	19.40	46.00	-26.60	10.30	Line	-	9.10	0.10	0.09	10.11			
QP	2.148M	28.59	56.00	-27.41	10.34	Line	-	18.25	0.11	0.10	10.13			
AV	2.148M	19.39	46.00	-26.61	10.34	Line	-	9.05	0.11	0.10	10.13			
QP	24.738M	33.60	60.00	-26.40	11.01	Line	-	22.59	0.53	0.28	10.20			
AV	24.738M	30.93	50.00	-19.07	11.01	Line	-	19.92	0.53	0.28	10.20			
QP	29.783M	36.50	60.00	-23.50	11.12	Line	-	25.38	0.64	0.29	10.19			
AV	29.783M	33.80	50.00	-16.20	11.12	Line	-	22.68	0.64	0.29	10.19			

Mode 1

28/06/2021



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	159k	50.88	65.52	-14.64	10.28	Neutral	-	40.60	0.06	0.07	10.15			
AV	159k	41.68	55.52	-13.84	10.28	Neutral	-	31.40	0.06	0.07	10.15			
QP	195k	44.30	63.82	-19.52	10.29	Neutral	-	34.01	0.06	0.07	10.16			
AV	195k	33.51	53.82	-20.31	10.29	Neutral	-	23.22	0.06	0.07	10.16			
QP	433.5k	42.10	57.19	-15.09	10.23	Neutral	-	31.87	0.06	0.06	10.11			
AV	433.5k	36.52	47.19	-10.67	10.23	Neutral	"Worst"	26.29	0.06	0.06	10.11			
QP	708k	33.04	56.00	-22.96	10.24	Neutral	-	22.80	0.07	0.07	10.10			
AV	708k	25.60	46.00	-20.40	10.24	Neutral	-	15.36	0.07	0.07	10.10			
QP	1.478M	30.70	56.00	-25.30	10.30	Neutral	-	20.40	0.09	0.09	10.12			
AV	1.478M	21.86	46.00	-24.14	10.30	Neutral	-	11.56	0.09	0.09	10.12			
QP	6.734M	26.96	60.00	-33.04	10.48	Neutral	-	16.48	0.18	0.19	10.11			
AV	6.734M	19.02	50.00	-30.98	10.48	Neutral	-	8.54	0.18	0.19	10.11			

For Indoor use (band 1) and Indoor/Outdoor use (band 2~4)
For Radio 1 / 1T1S
Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.15-5.25GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	37.83M	18.111M	18M1D1D	36.57M	17.331M
802.11ax HEW20_Nss1,(MCS0)_1TX	32.61M	19.25M	19M2D1D	29.7M	19.19M
802.11ax HEW40_Nss1,(MCS0)_1TX	71.22M	37.781M	37M8D1D	43.5M	37.661M
802.11ax HEW80_Nss1,(MCS0)_1TX	82.44M	77.241M	77M2D1D	82.44M	77.241M
5.25-5.35GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	37.2M	17.451M	17M5D1D	28.38M	17.211M
802.11ax HEW20_Nss1,(MCS0)_1TX	28.08M	19.16M	19M2D1D	23.76M	19.13M
802.11ax HEW40_Nss1,(MCS0)_1TX	71.64M	37.781M	37M8D1D	40.08M	37.541M
802.11ax HEW80_Nss1,(MCS0)_1TX	82.32M	77.121M	77M1D1D	82.32M	77.121M
5.47-5.725GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	24.54M	17.001M	17M0D1D	21.72M	14.798M
802.11ax HEW20_Nss1,(MCS0)_1TX	25.34M	19.1M	19M1D1D	21.48M	14.92M
802.11ax HEW40_Nss1,(MCS0)_1TX	53.963M	37.661M	37M7D1D	39.96M	34.07M
802.11ax HEW80_Nss1,(MCS0)_1TX	120.048M	77.481M	77M5D1D	82.32M	73.976M
5.725-5.85GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	16.35M	44.918M	44M9D1D	3.18M	9.745M
802.11ax HEW20_Nss1,(MCS0)_1TX	18.45M	38.501M	38M5D1D	4.485M	9.895M
802.11ax HEW40_Nss1,(MCS0)_1TX	37.56M	75.082M	75M1D1D	3.84M	21.184M
802.11ax HEW80_Nss1,(MCS0)_1TX	76.92M	77.841M	77M8D1D	3.315M	26.447M

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)
802.11a_Nss1,(6Mbps)_1TX	-	-	-	-
5180MHz	Pass	Inf	37.83M	18.111M
5200MHz	Pass	Inf	36.57M	17.331M
5240MHz	Pass	Inf	36.78M	17.331M
5260MHz	Pass	Inf	37.2M	17.451M
5300MHz	Pass	Inf	36.87M	17.421M
5320MHz	Pass	Inf	28.38M	17.211M
5500MHz	Pass	Inf	22.86M	16.972M
5580MHz	Pass	Inf	24.54M	17.001M
5700MHz	Pass	Inf	21.72M	16.942M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	23.695M	14.798M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	3.18M	9.745M
5745MHz	Pass	500k	16.32M	32.714M
5785MHz	Pass	500k	16.35M	44.918M
5825MHz	Pass	500k	16.32M	33.943M
802.11ax HEW20_Nss1,(MCS0)_1TX	-	-	-	-
5180MHz	Pass	Inf	32.61M	19.25M
5200MHz	Pass	Inf	31.32M	19.19M
5240MHz	Pass	Inf	29.7M	19.22M
5260MHz	Pass	Inf	27.87M	19.13M
5300MHz	Pass	Inf	28.08M	19.16M
5320MHz	Pass	Inf	23.76M	19.13M
5500MHz	Pass	Inf	22.53M	19.07M
5580MHz	Pass	Inf	24.57M	19.1M
5700MHz	Pass	Inf	21.48M	19.04M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	25.34M	14.92M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	4.485M	9.895M
5745MHz	Pass	500k	18.21M	36.432M
5785MHz	Pass	500k	18.45M	38.501M
5825MHz	Pass	500k	18.3M	37.631M
802.11ax HEW40_Nss1,(MCS0)_1TX	-	-	-	-
5190MHz	Pass	Inf	43.5M	37.661M
5230MHz	Pass	Inf	71.22M	37.781M
5270MHz	Pass	Inf	71.64M	37.781M
5310MHz	Pass	Inf	40.08M	37.541M
5510MHz	Pass	Inf	39.96M	37.541M
5550MHz	Pass	Inf	44.52M	37.661M
5670MHz	Pass	Inf	42M	37.601M
5710MHz Straddle 5.47-5.725GHz	Pass	Inf	53.963M	34.07M
5710MHz Straddle 5.725-5.85GHz	Pass	500k	3.84M	21.184M
5755MHz	Pass	500k	37.56M	59.01M
5795MHz	Pass	500k	37.56M	75.082M
802.11ax HEW80_Nss1,(MCS0)_1TX	-	-	-	-
5210MHz	Pass	Inf	82.44M	77.241M

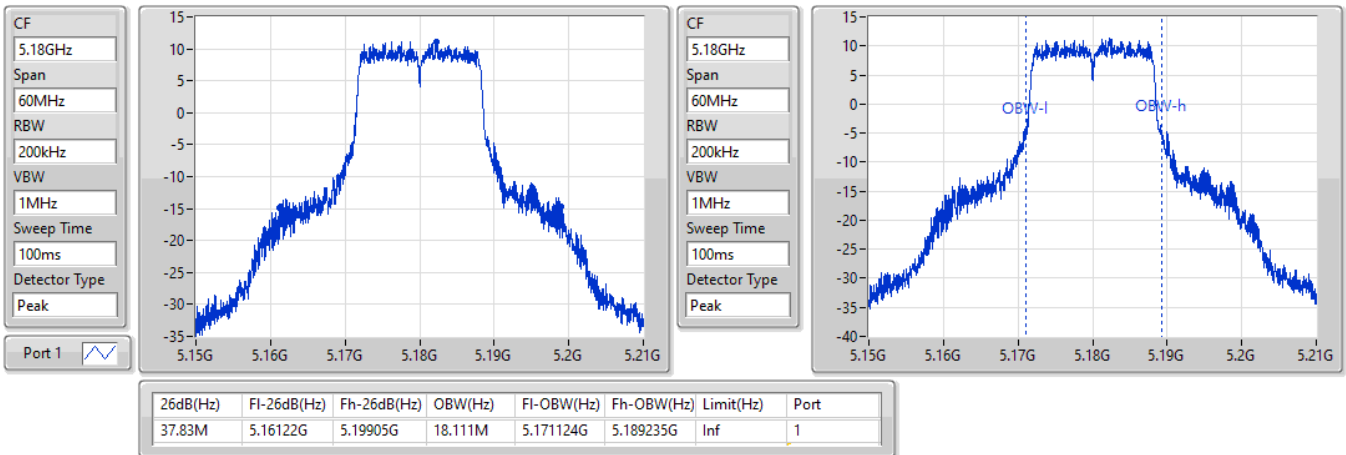
Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
5290MHz	Pass	Inf	82.32M	77.121M
5530MHz	Pass	Inf	82.32M	77.121M
5610MHz	Pass	Inf	89.64M	77.481M
5690MHz Straddle 5.47-5.725GHz	Pass	Inf	120.048M	73.976M
5690MHz Straddle 5.725-5.85GHz	Pass	500k	3.315M	26.447M
5775MHz	Pass	500k	76.92M	77.841M

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

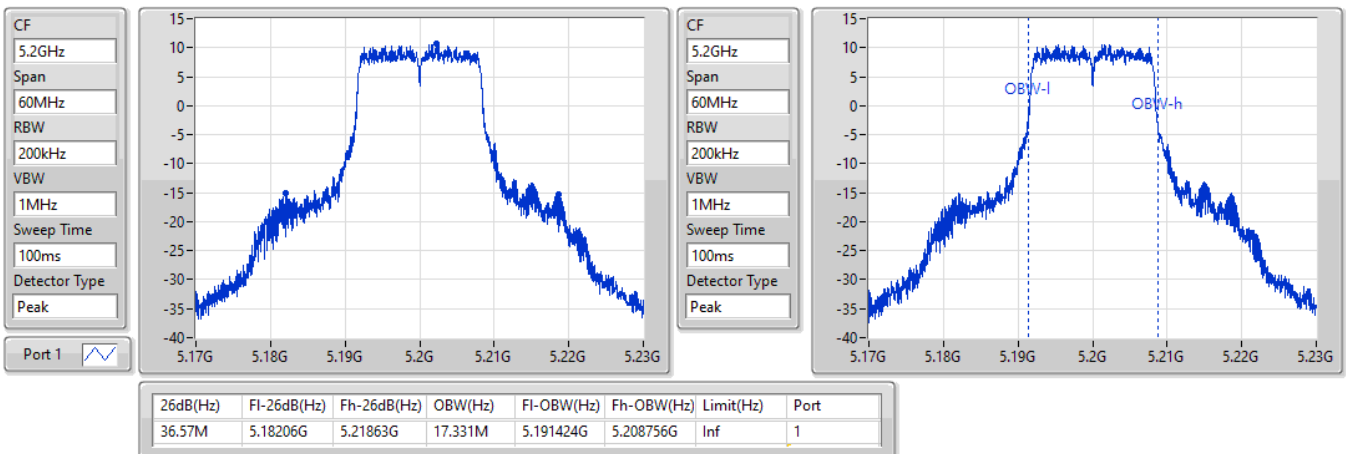
Port X-OBW = Port X 99% occupied bandwidth;

802.11a_Nss1,(6Mbps)_1TX
EBW
5180MHz

06/05/2021


802.11a_Nss1,(6Mbps)_1TX
EBW
5200MHz

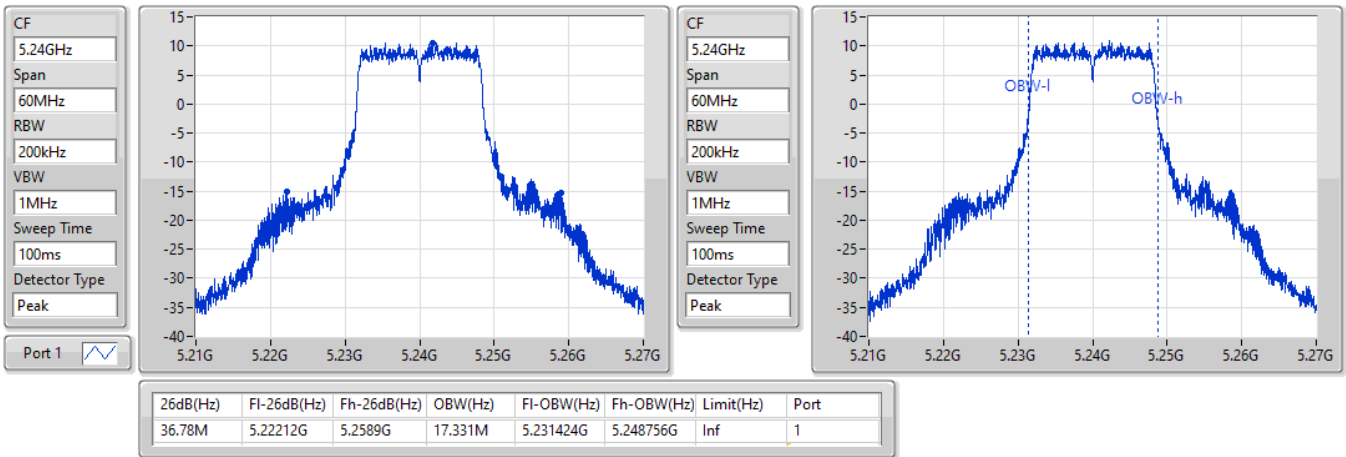
15/05/2021



802.11a_Nss1,(6Mbps)_1TX

EBW
5240MHz

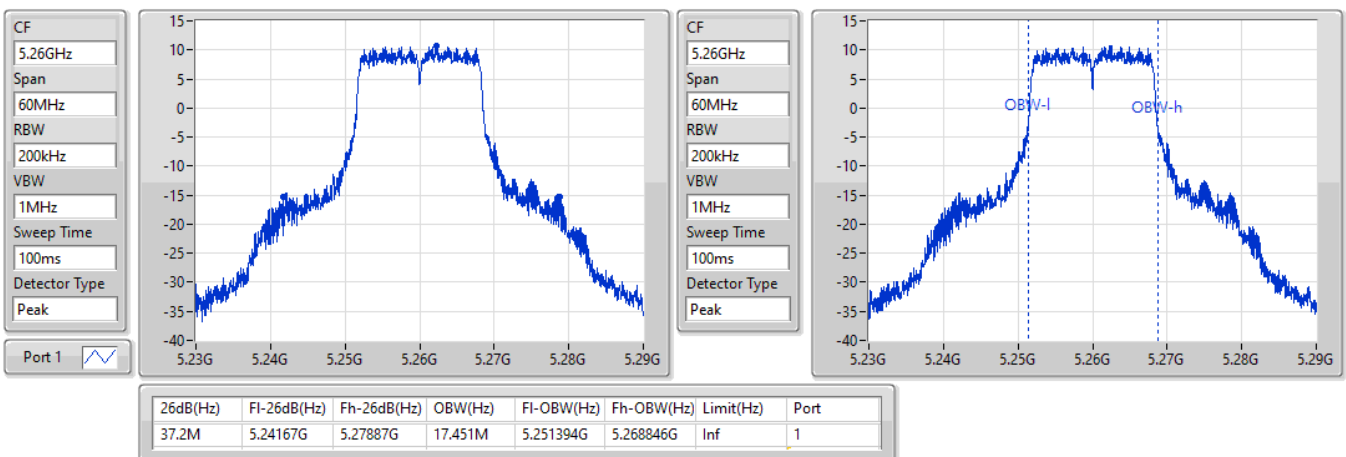
15/05/2021



802.11a_Nss1,(6Mbps)_1TX

EBW
5260MHz

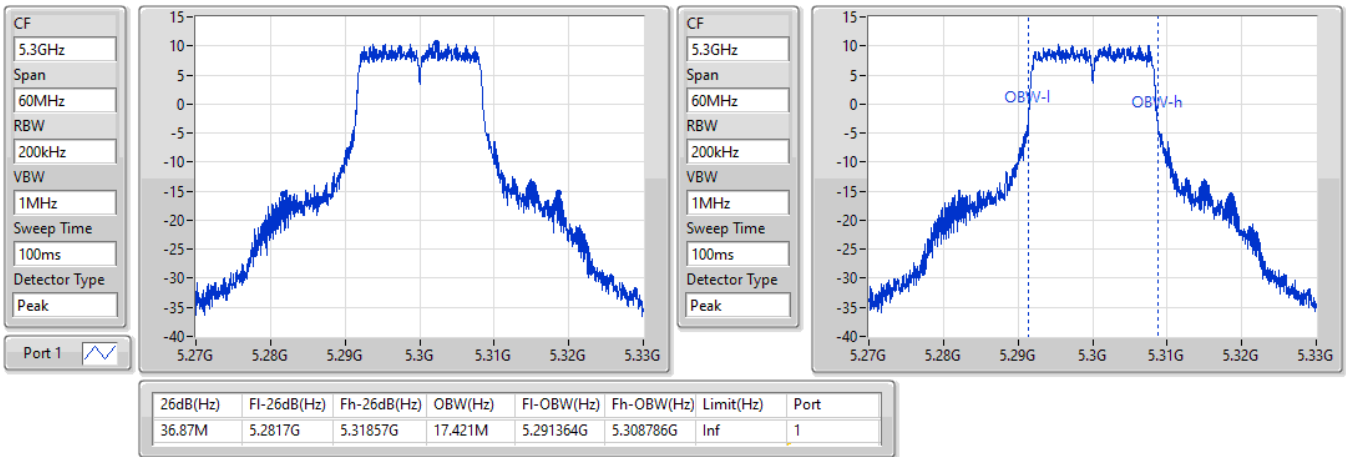
15/05/2021



802.11a_Nss1,(6Mbps)_1TX

EBW
5300MHz

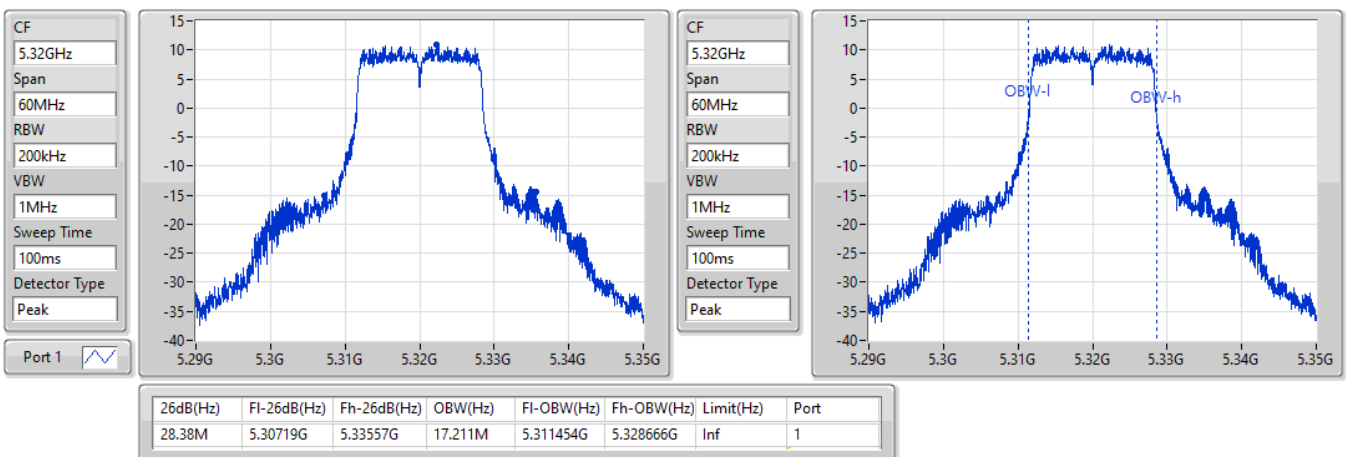
15/05/2021



802.11a_Nss1,(6Mbps)_1TX

EBW
5320MHz

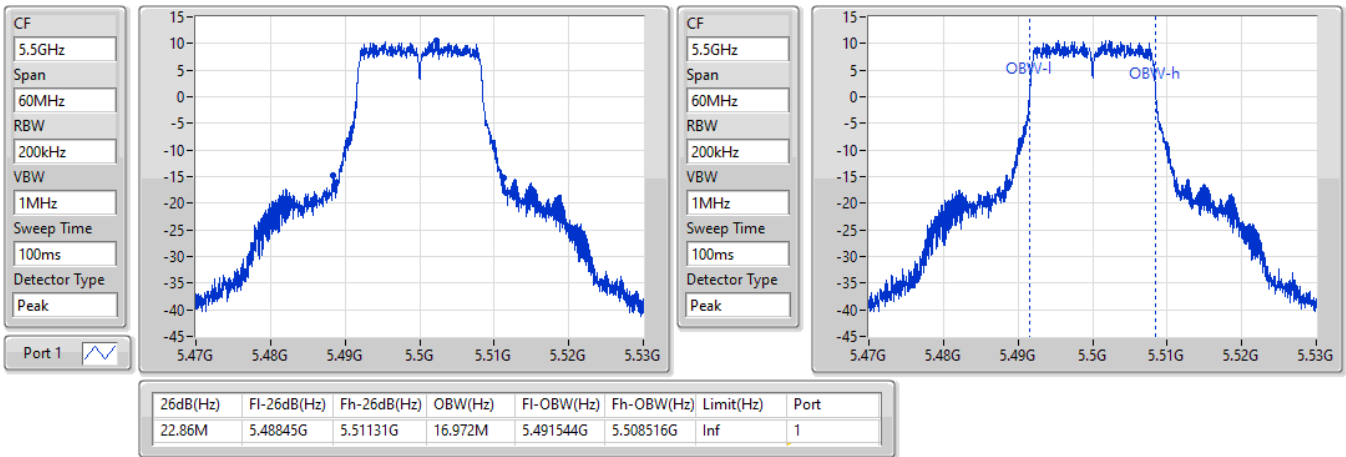
15/05/2021



802.11a_Nss1,(6Mbps)_1TX

EBW
5500MHz

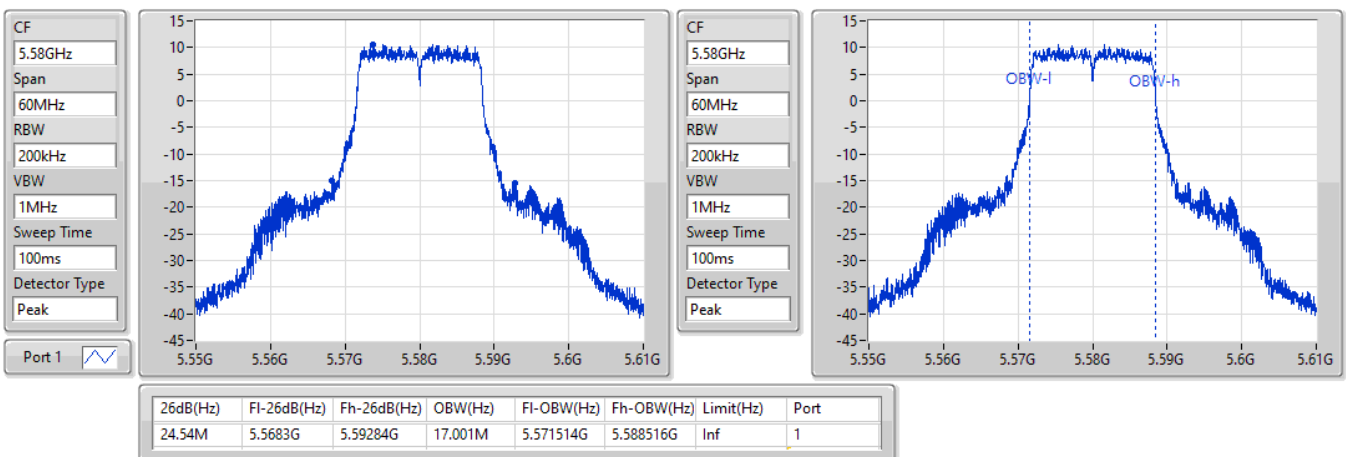
15/05/2021



802.11a_Nss1,(6Mbps)_1TX

EBW
5580MHz

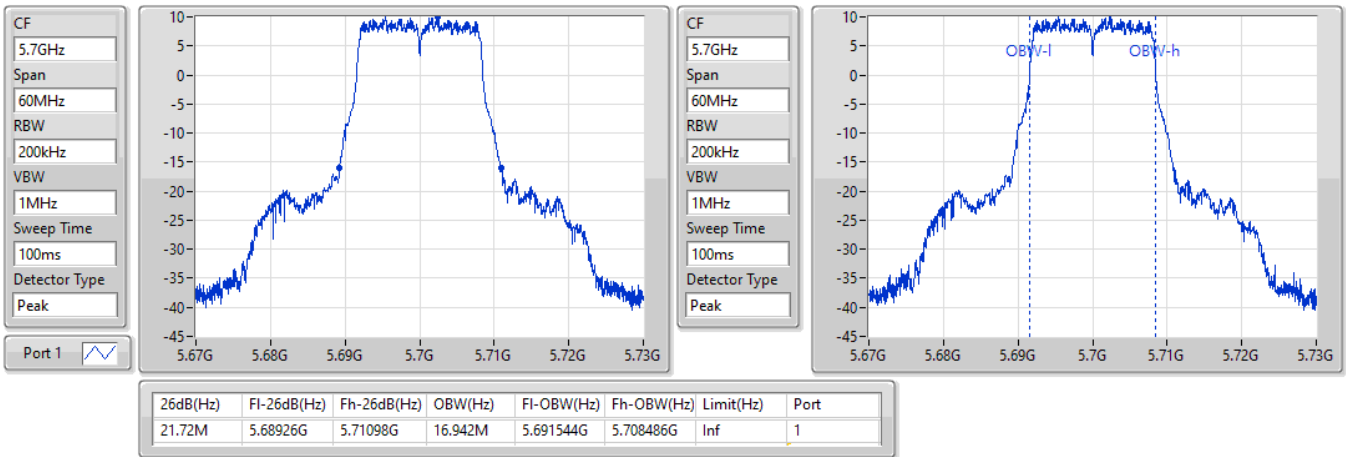
15/05/2021



802.11a_Nss1,(6Mbps)_1TX

EBW
5700MHz

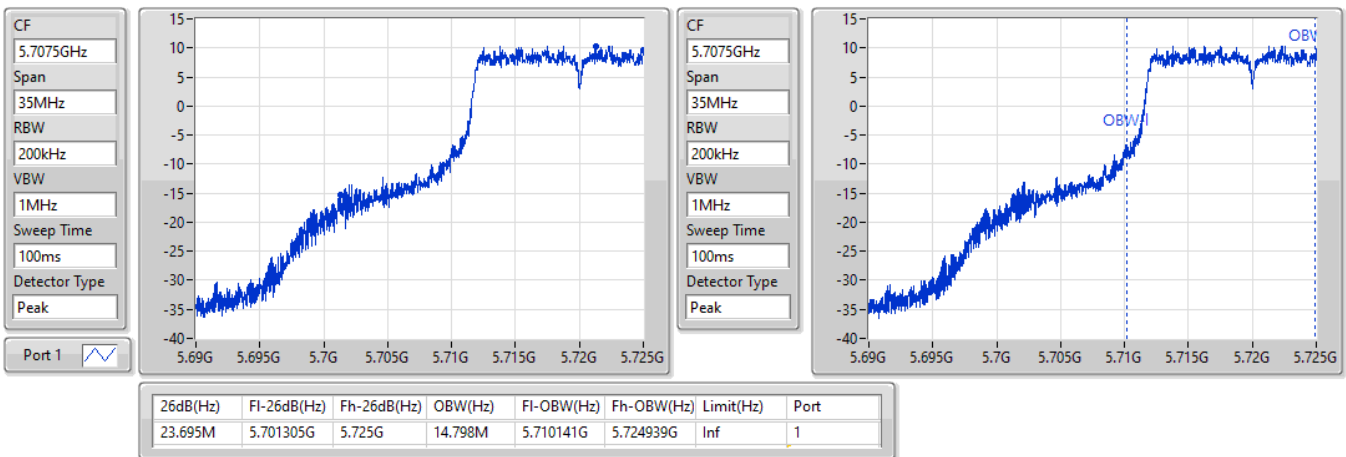
06/05/2021



802.11a_Nss1,(6Mbps)_1TX

EBW
5720MHz Straddle 5.47-5.725GHz

11/06/2021

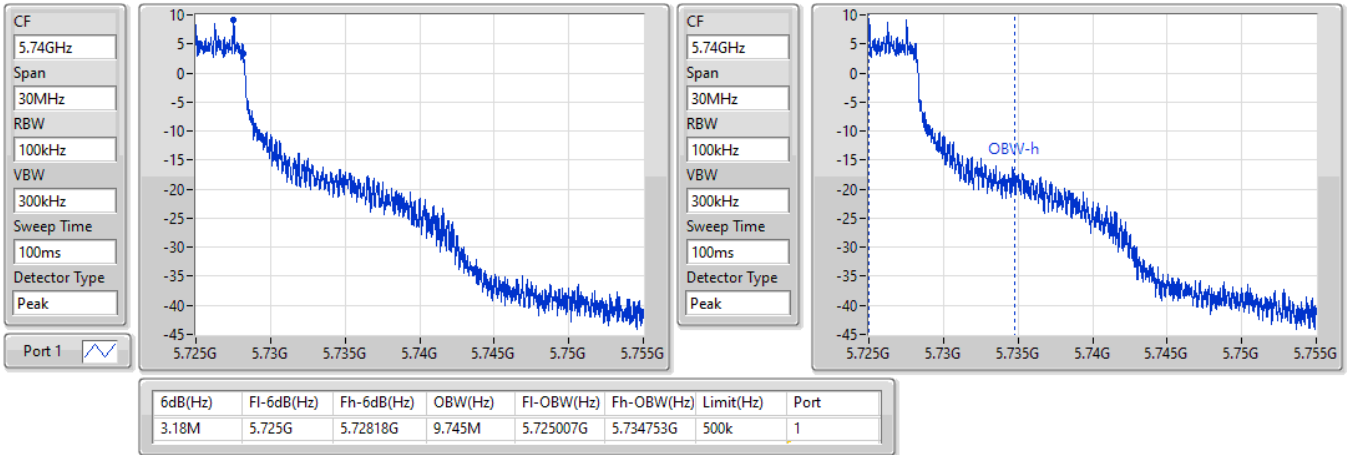


802.11a_Nss1,(6Mbps)_1TX

EBW

5720MHz Straddle 5.725-5.85GHz

12/06/2021

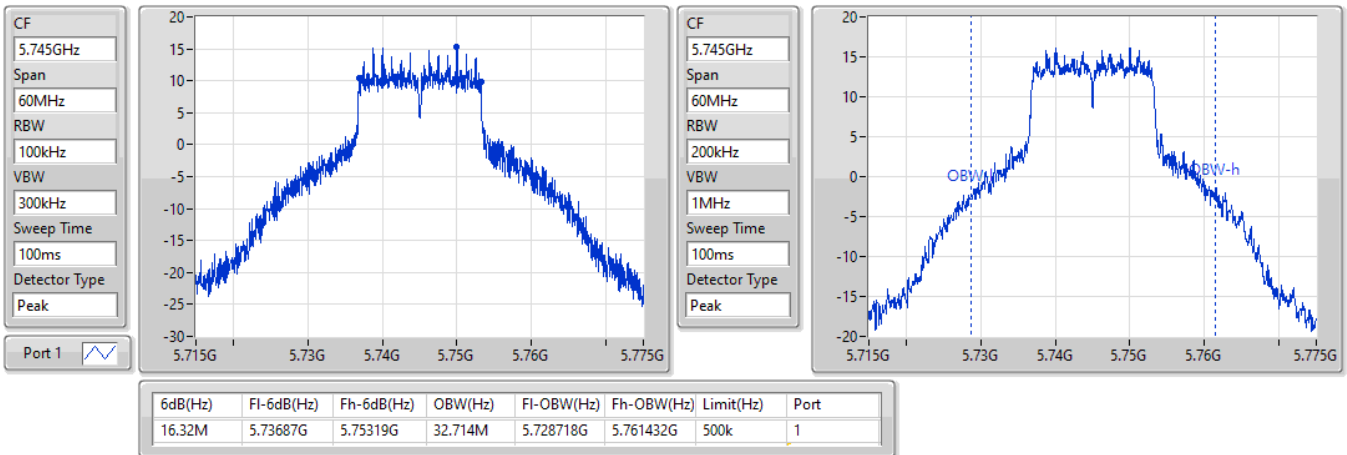


802.11a_Nss1,(6Mbps)_1TX

EBW

5745MHz

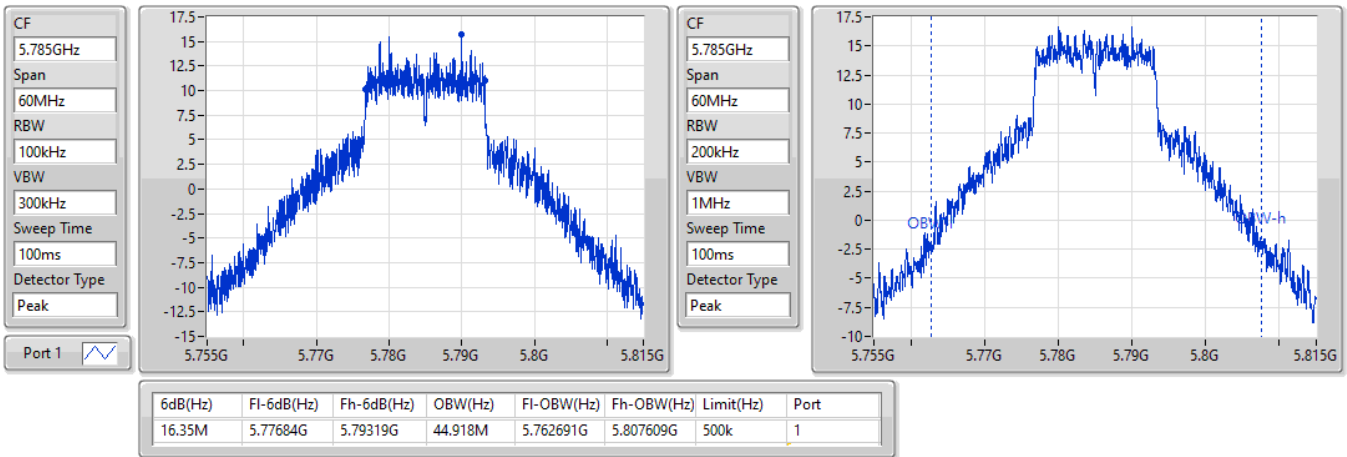
06/05/2021



802.11a_Nss1,(6Mbps)_1TX

EBW
5785MHz

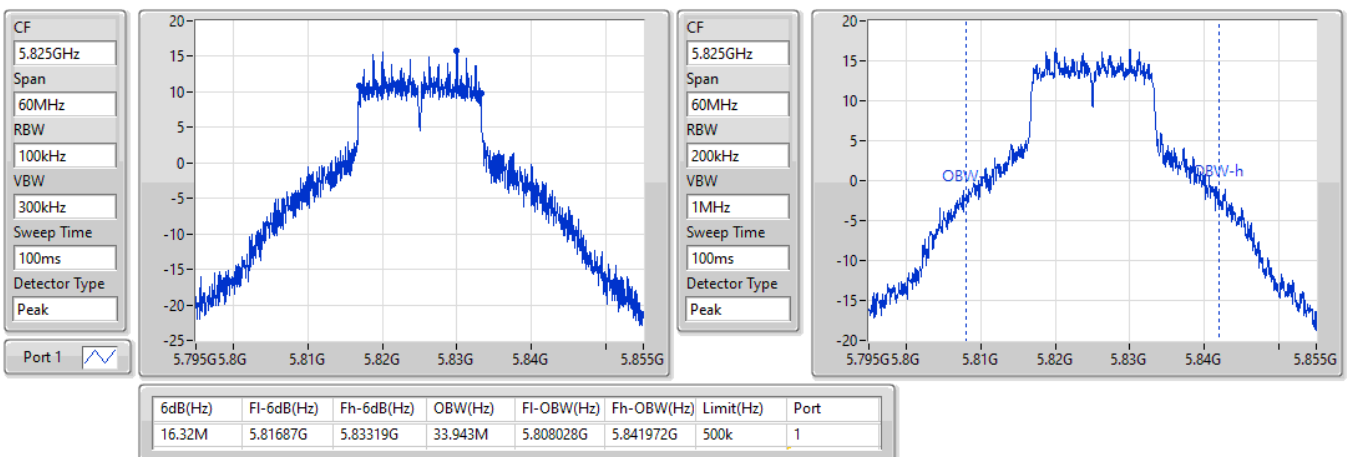
06/05/2021



802.11a_Nss1,(6Mbps)_1TX

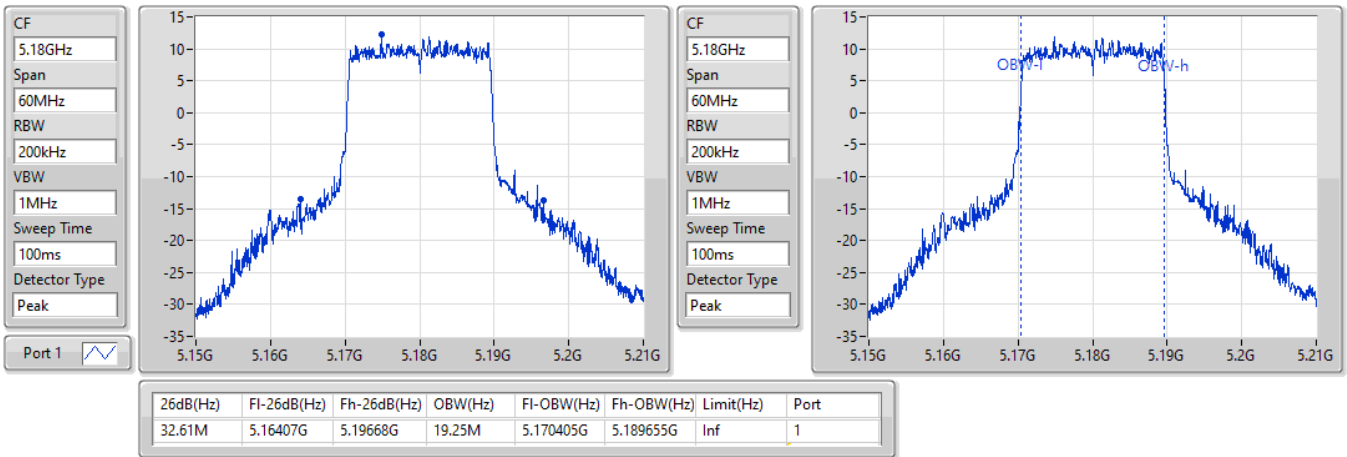
EBW
5825MHz

06/05/2021

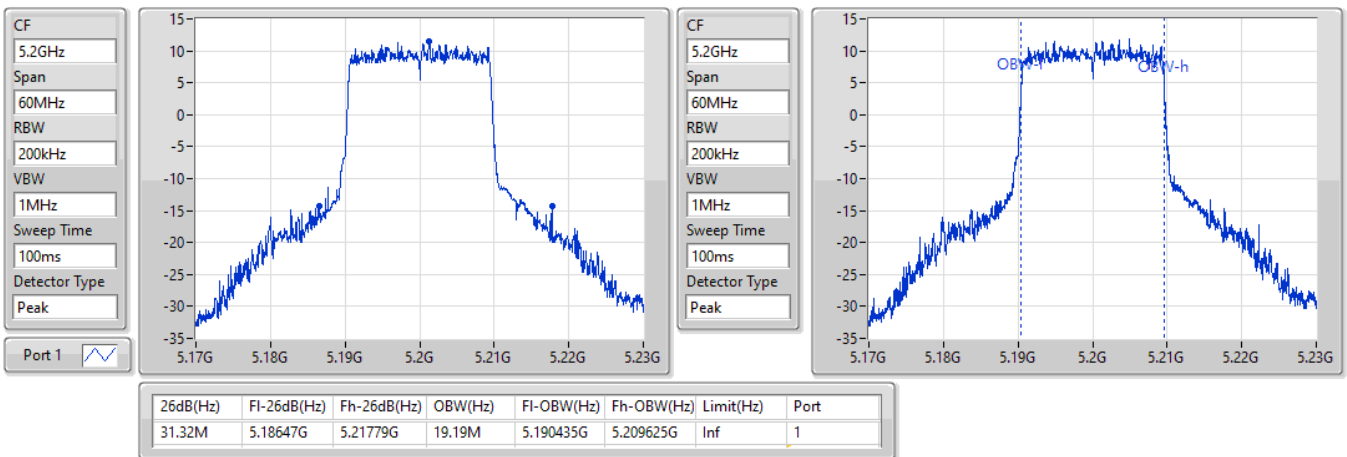


802.11ax HEW20_Nss1,(MCS0)_1TX
EBW
5180MHz

06/05/2021

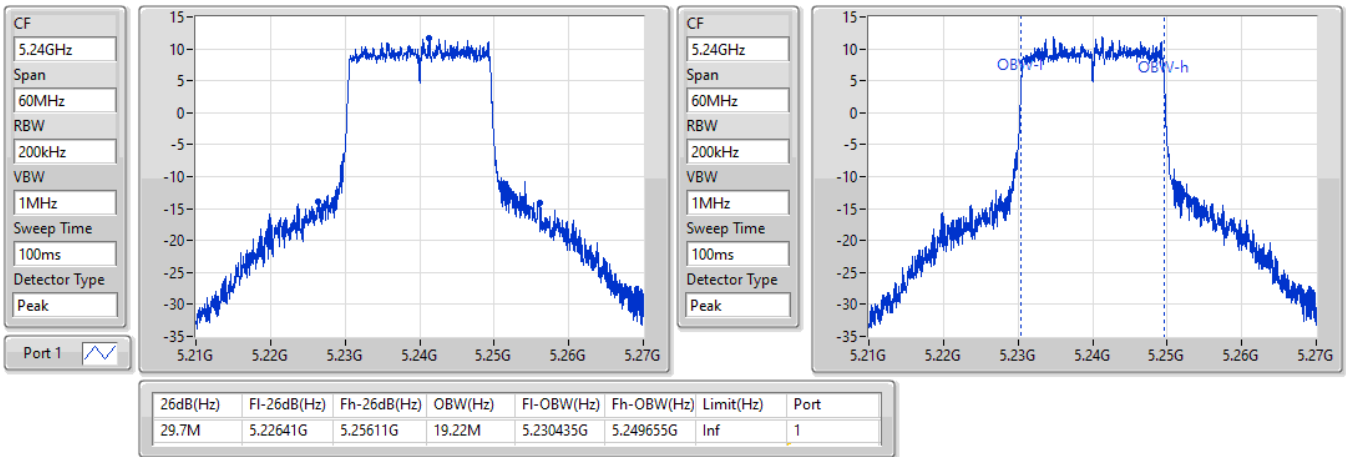

802.11ax HEW20_Nss1,(MCS0)_1TX
EBW
5200MHz

06/05/2021

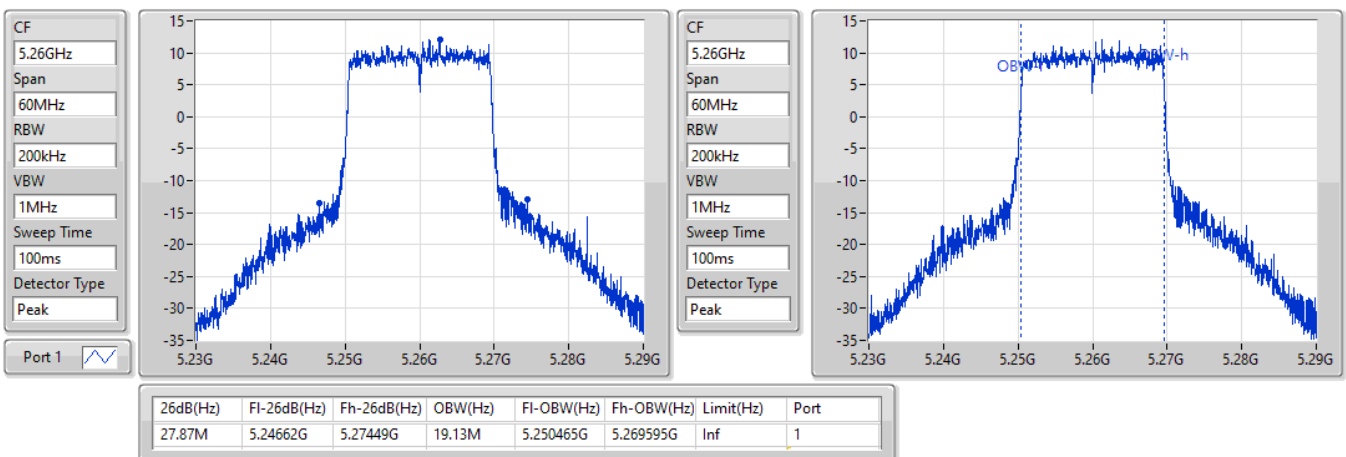


802.11ax HEW20_Nss1,(MCS0)_1TX
EBW
5240MHz

15/05/2021

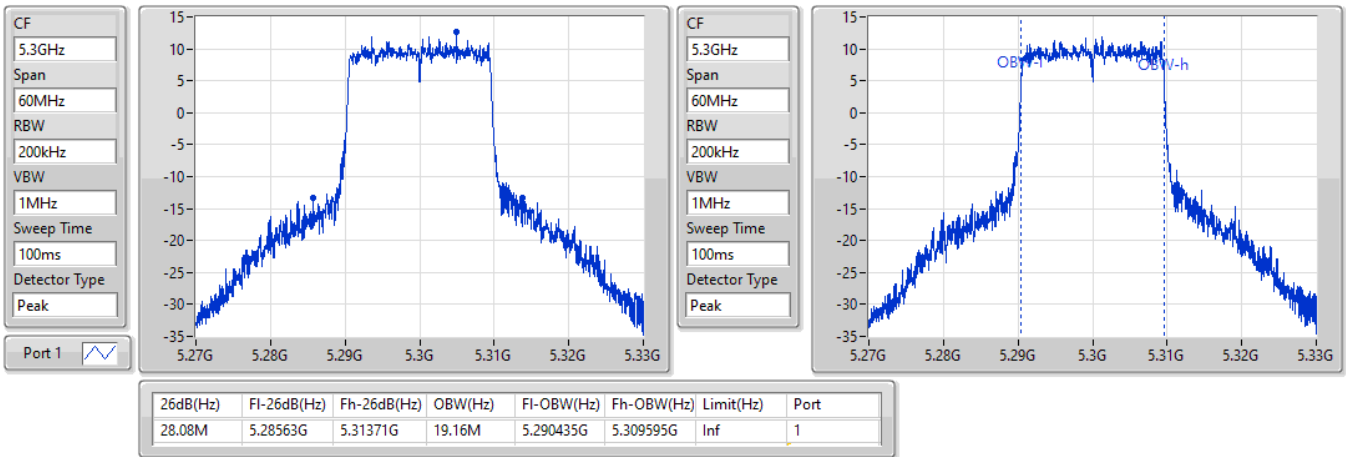

802.11ax HEW20_Nss1,(MCS0)_1TX
EBW
5260MHz

15/05/2021

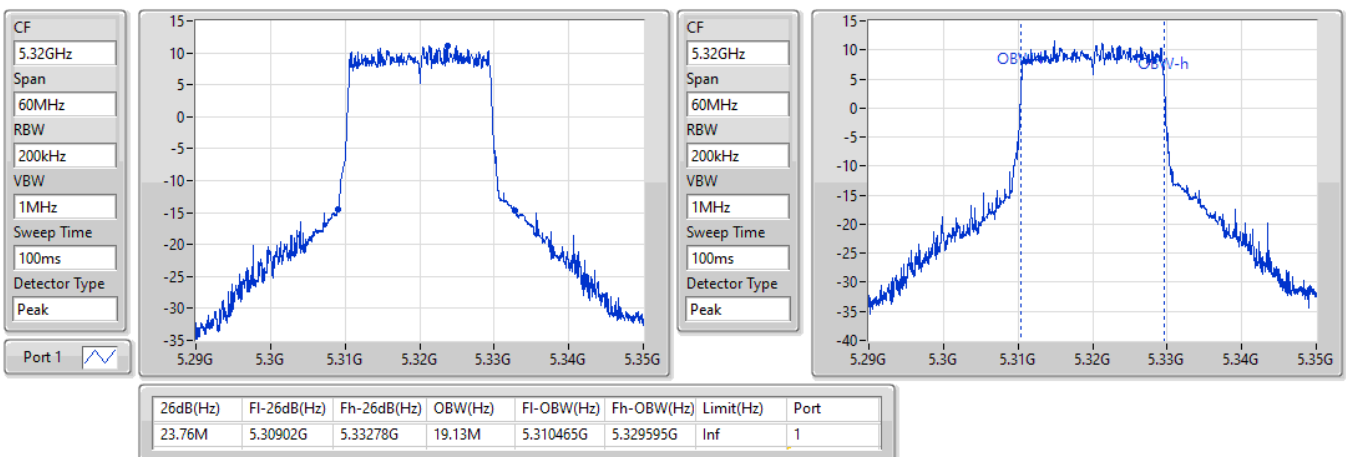


802.11ax HEW20_Nss1,(MCS0)_1TX
EBW
5300MHz

15/05/2021

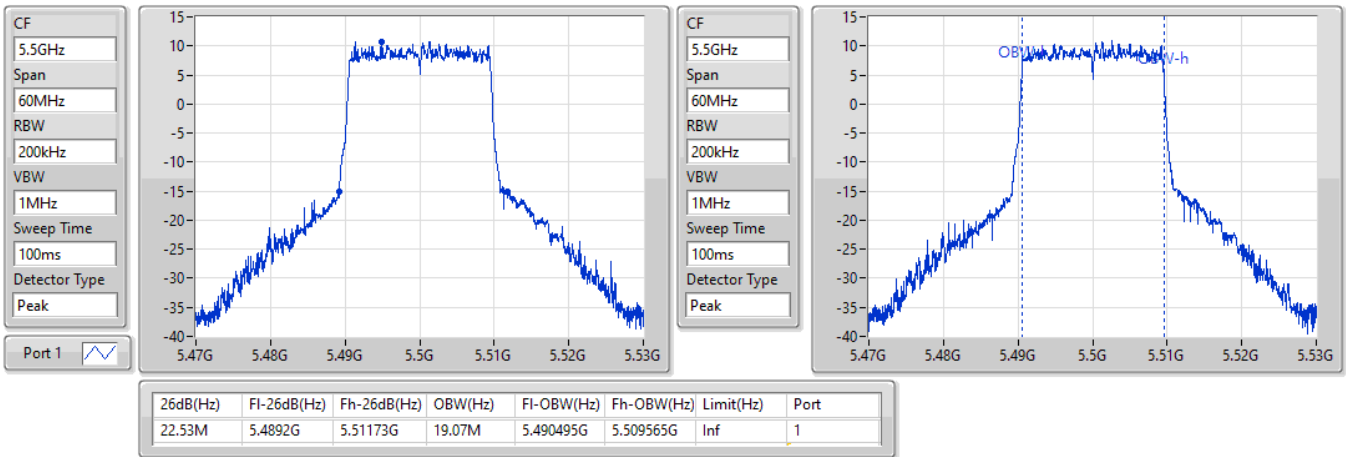

802.11ax HEW20_Nss1,(MCS0)_1TX
EBW
5320MHz

06/05/2021

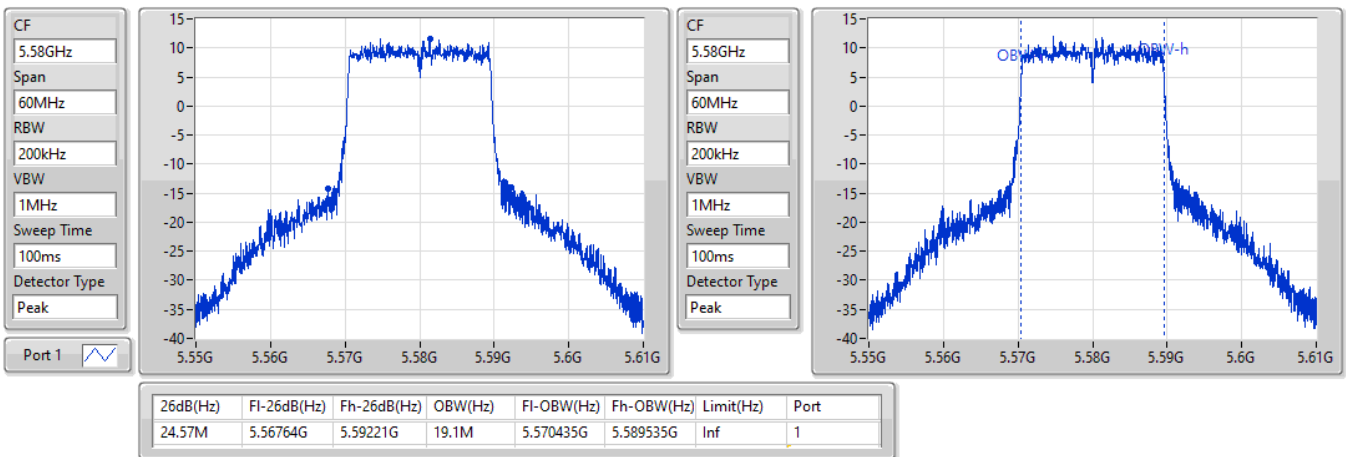


802.11ax HEW20_Nss1,(MCS0)_1TX
EBW
5500MHz

06/05/2021

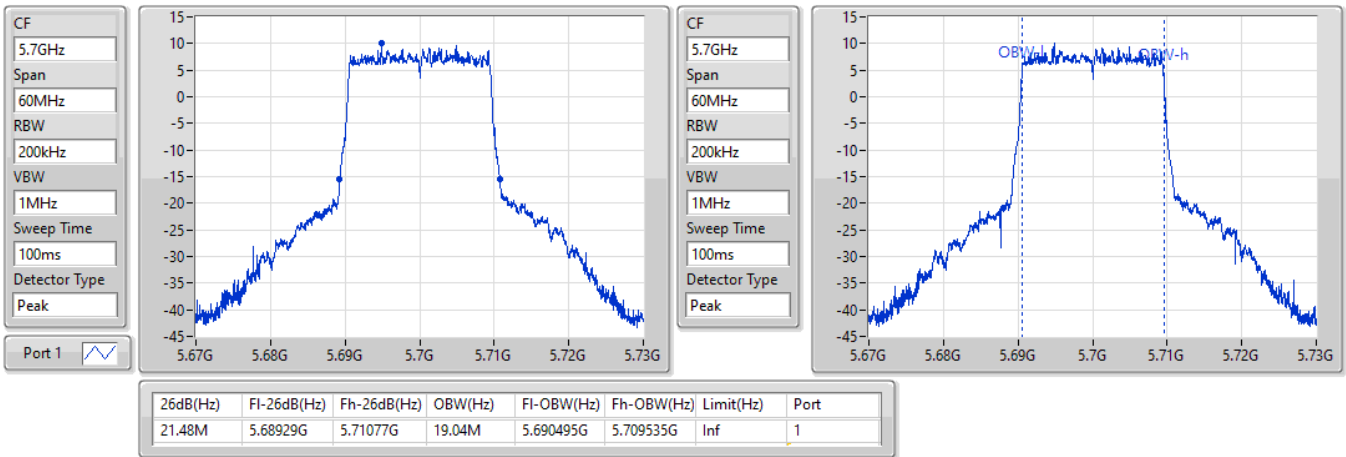

802.11ax HEW20_Nss1,(MCS0)_1TX
EBW
5580MHz

15/05/2021

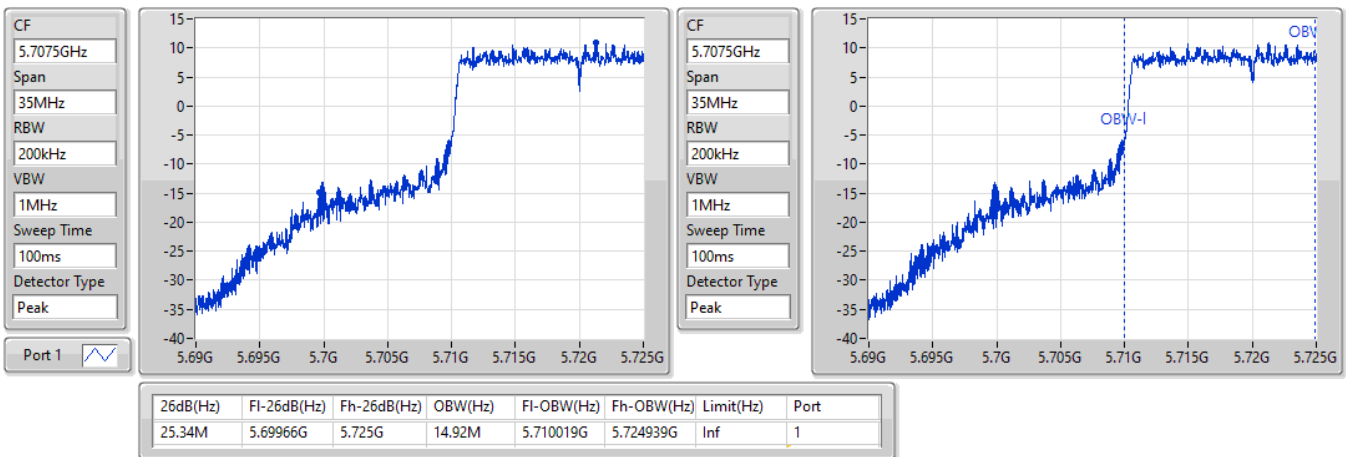


802.11ax HEW20_Nss1,(MCS0)_1TX
EBW
5700MHz

06/05/2021

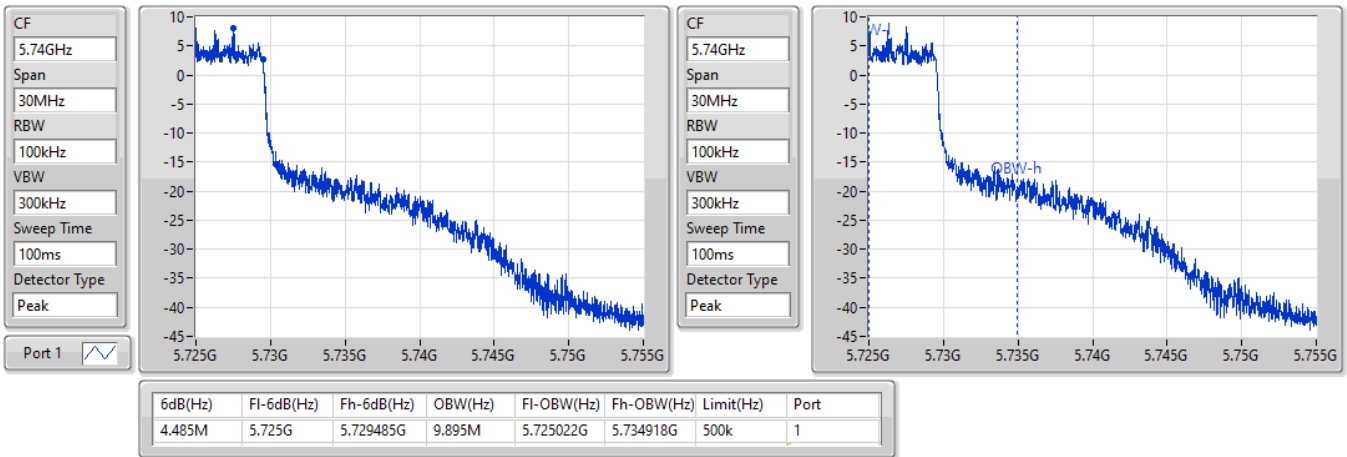

802.11ax HEW20_Nss1,(MCS0)_1TX
EBW
5720MHz Straddle 5.47-5.725GHz

11/06/2021

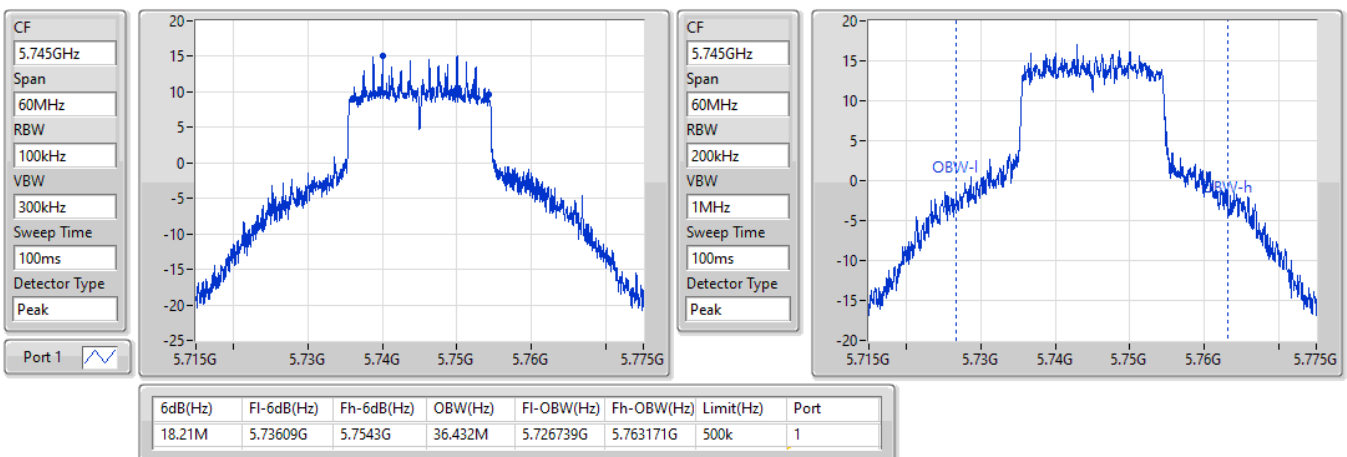


802.11ax HEW20_Nss1,(MCS0)_1TX
EBW
5720MHz Straddle 5.725-5.85GHz

11/06/2021

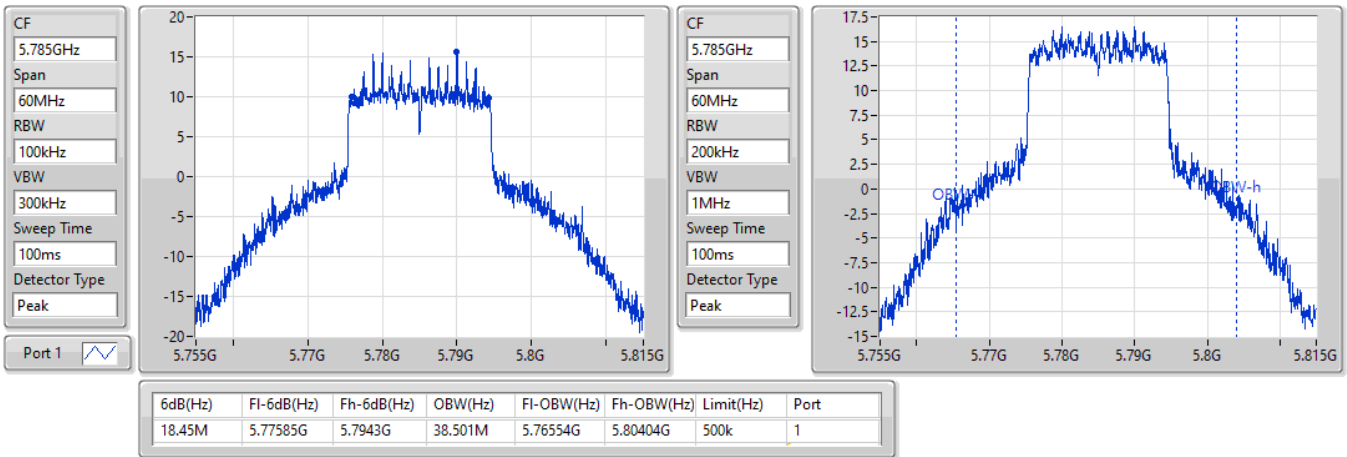

802.11ax HEW20_Nss1,(MCS0)_1TX
EBW
5745MHz

06/05/2021

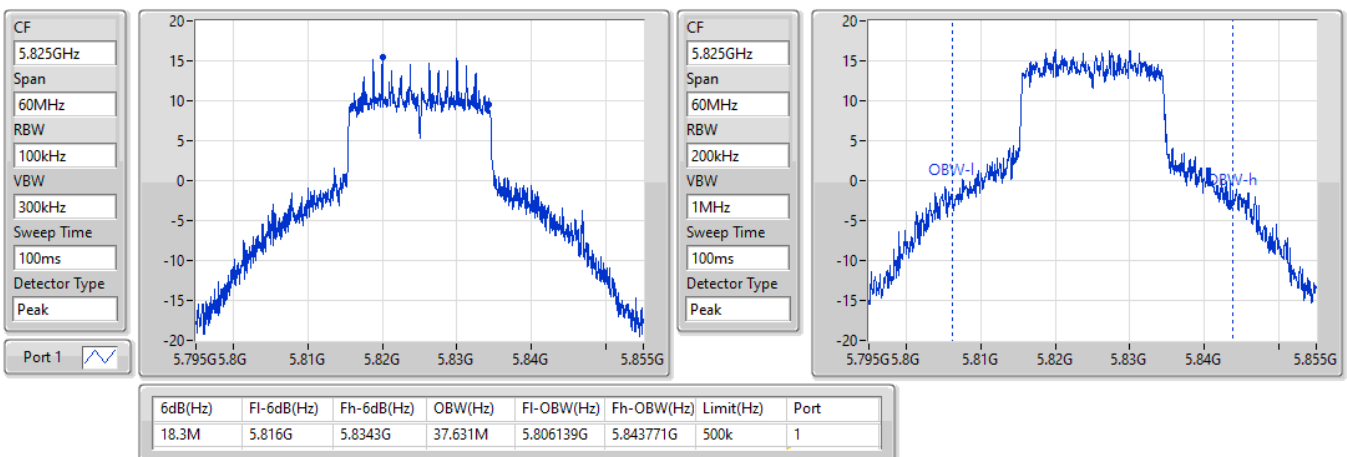


802.11ax HEW20_Nss1,(MCS0)_1TX
EBW
5785MHz

06/05/2021

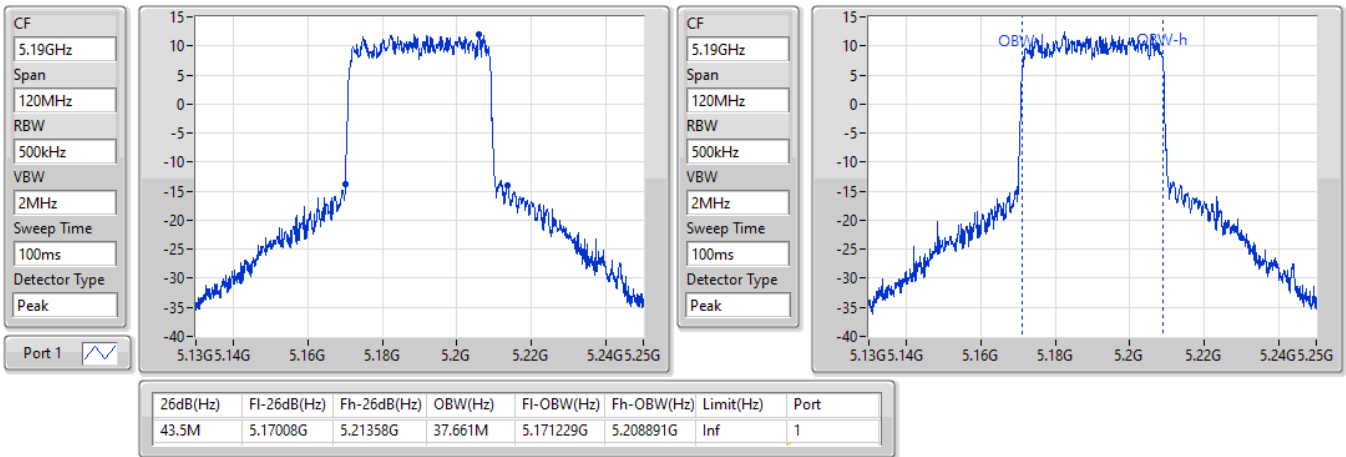

802.11ax HEW20_Nss1,(MCS0)_1TX
EBW
5825MHz

06/05/2021

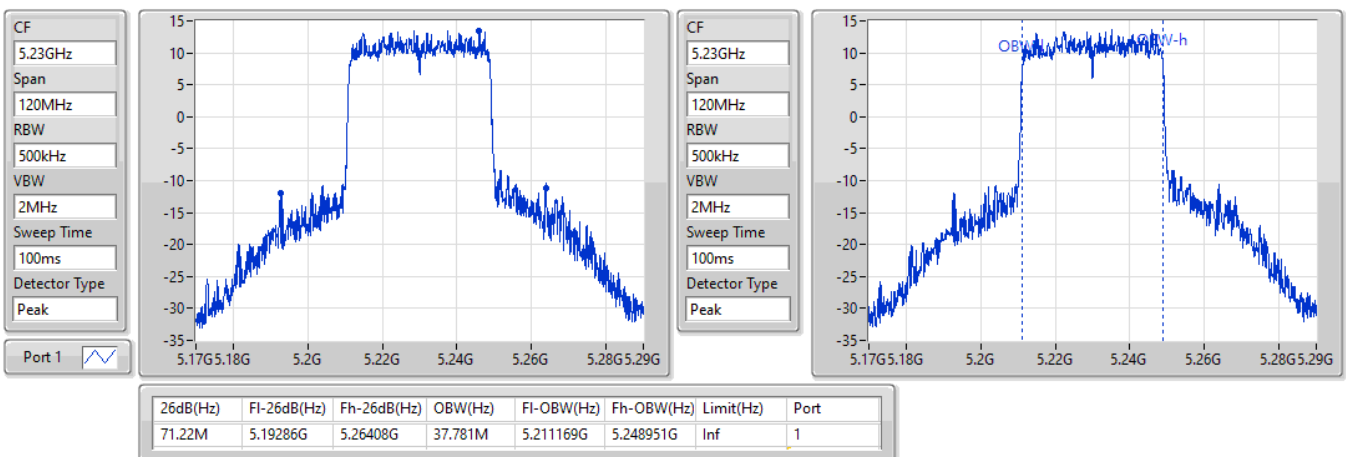


802.11ax HEW40_Nss1,(MCS0)_1TX
EBW
5190MHz

06/05/2021

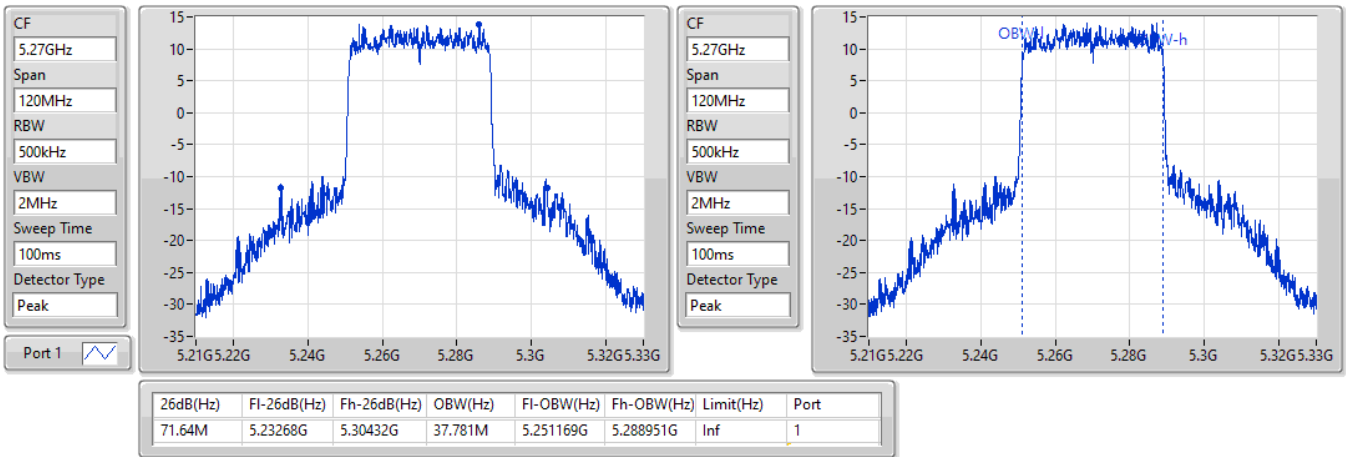

802.11ax HEW40_Nss1,(MCS0)_1TX
EBW
5230MHz

15/05/2021

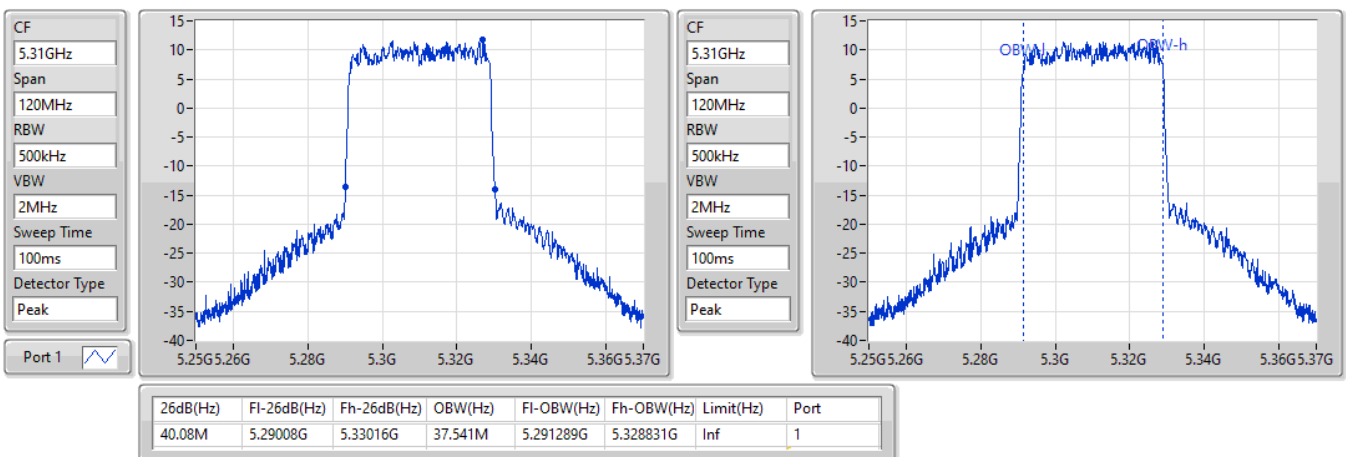


802.11ax HEW40_Nss1,(MCS0)_1TX
EBW
5270MHz

15/05/2021

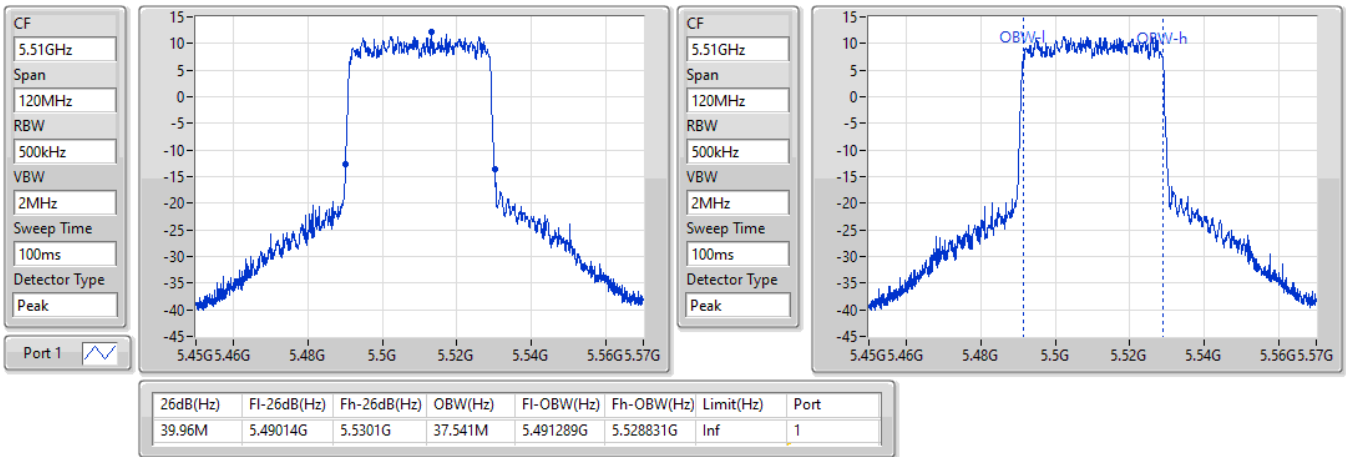

802.11ax HEW40_Nss1,(MCS0)_1TX
EBW
5310MHz

06/05/2021

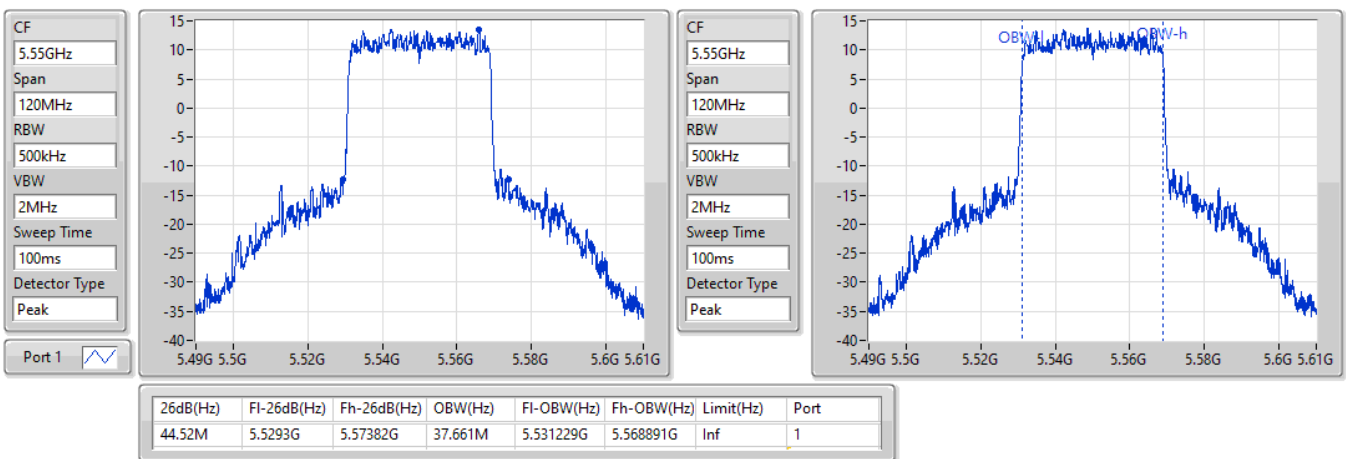


802.11ax HEW40_Nss1,(MCS0)_1TX
EBW
5510MHz

06/05/2021

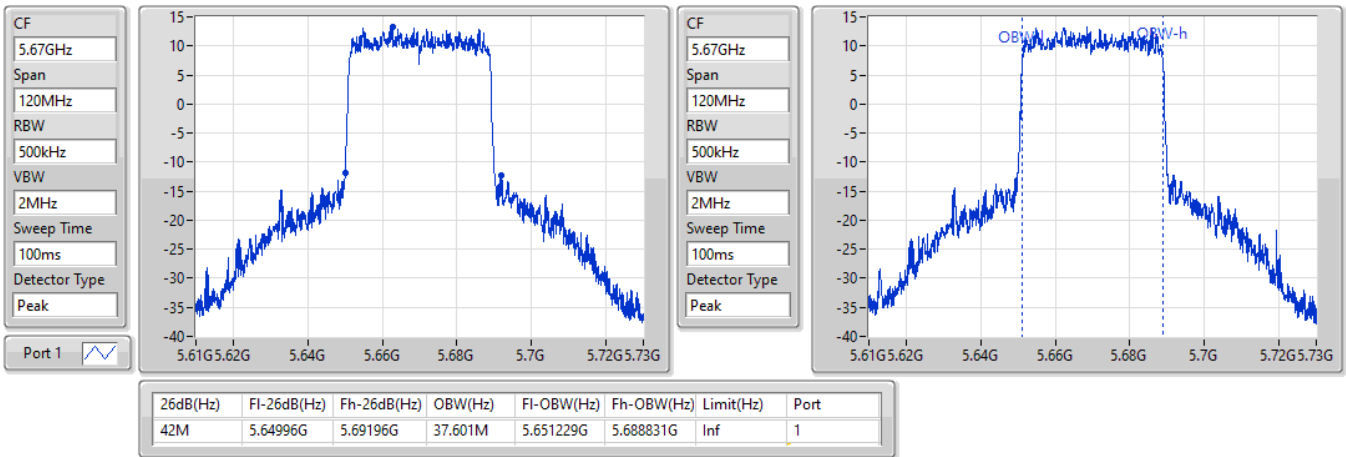

802.11ax HEW40_Nss1,(MCS0)_1TX
EBW
5550MHz

15/05/2021

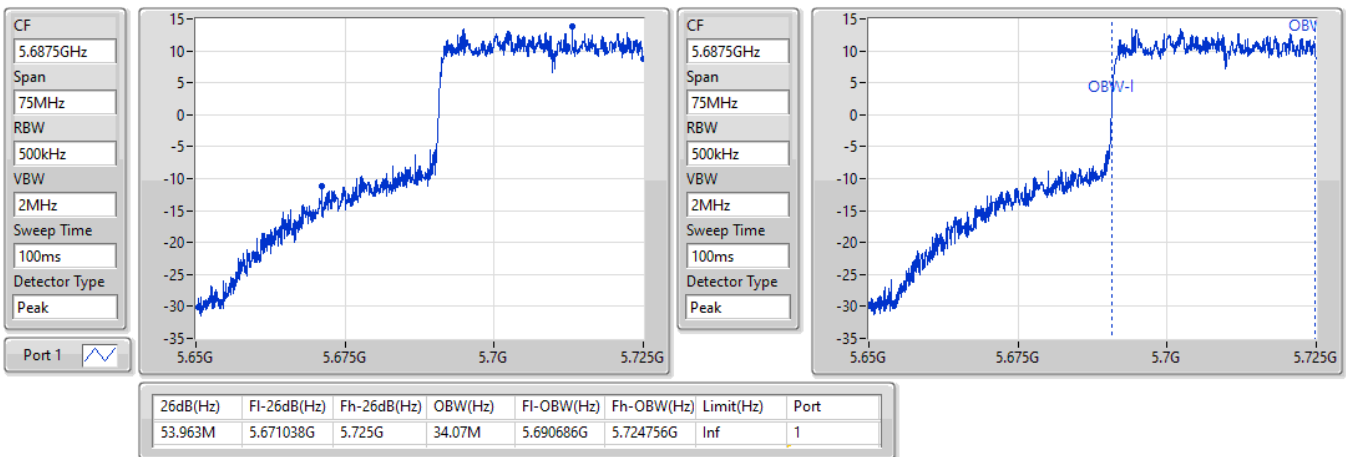


802.11ax HEW40_Nss1,(MCS0)_1TX
EBW
5670MHz

15/05/2021

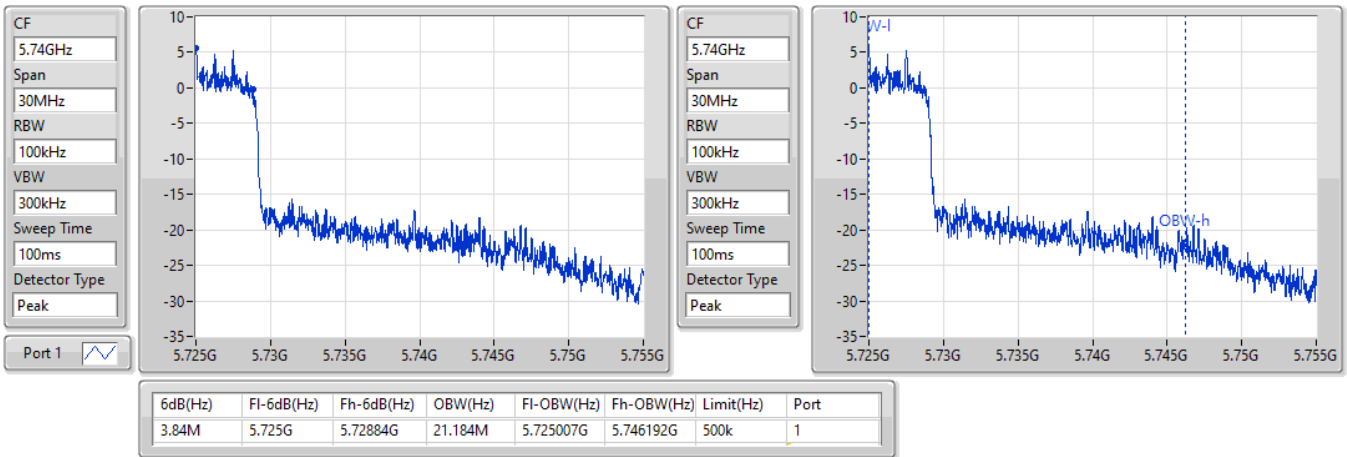

802.11ax HEW40_Nss1,(MCS0)_1TX
EBW
5710MHz Straddle 5.47-5.725GHz

11/06/2021

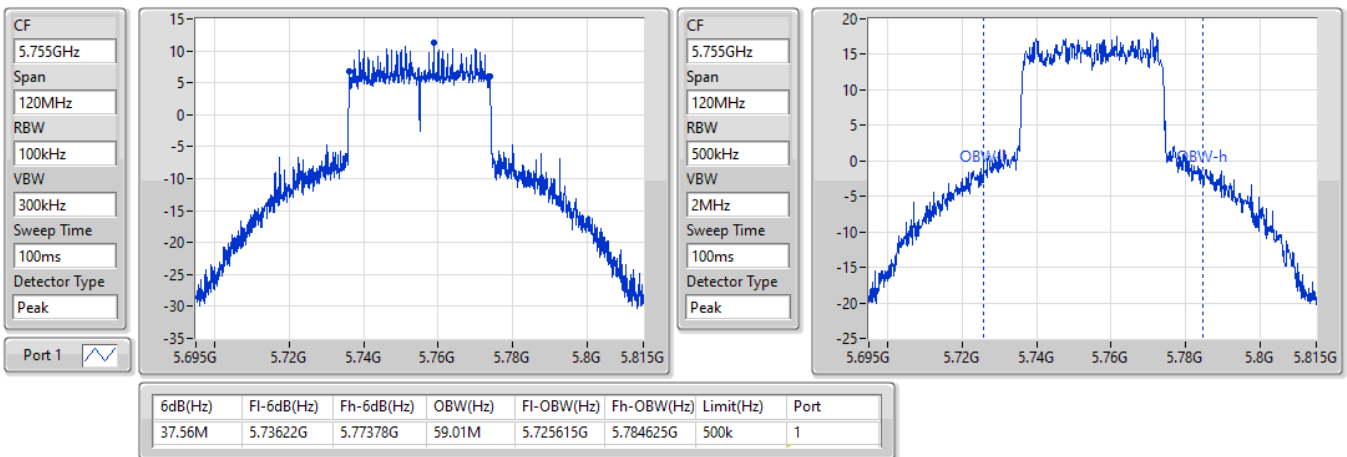


802.11ax HEW40_Nss1,(MCS0)_1TX
EBW
5710MHz Straddle 5.725-5.85GHz

11/06/2021

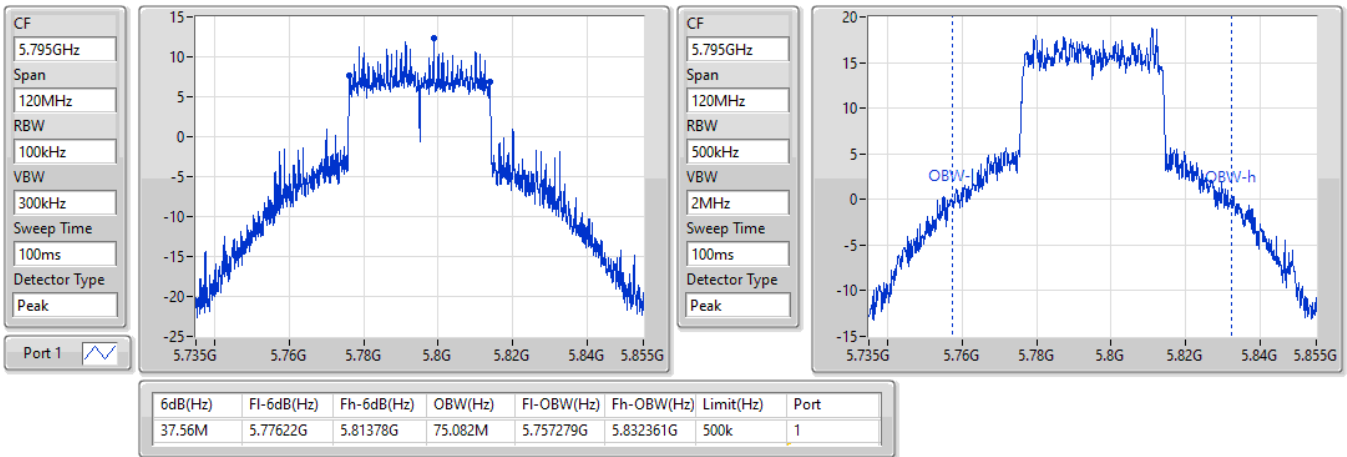

802.11ax HEW40_Nss1,(MCS0)_1TX
EBW
5755MHz

06/05/2021

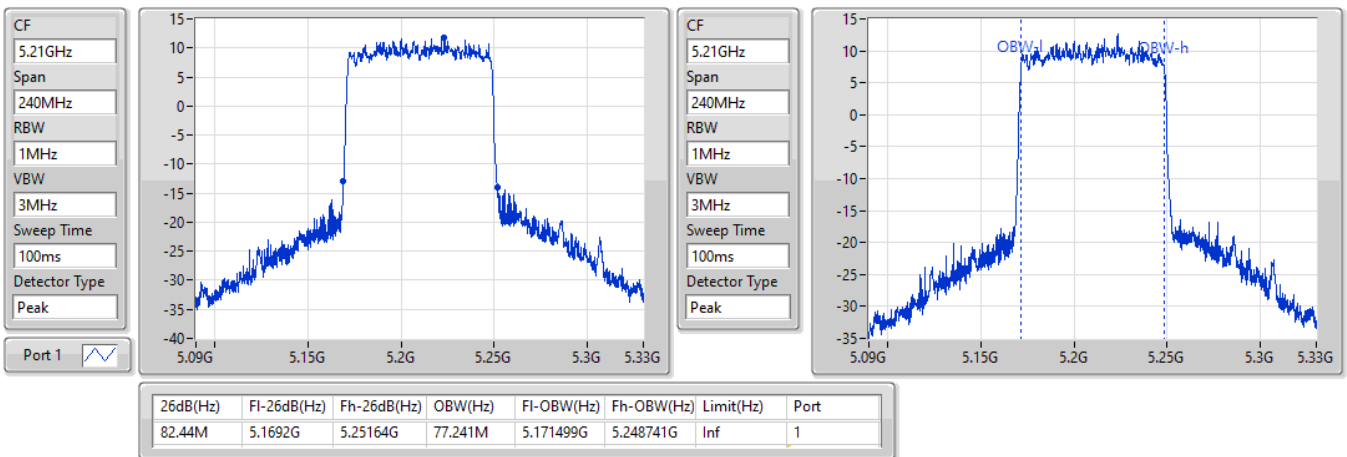


802.11ax HEW40_Nss1,(MCS0)_1TX
EBW
5795MHz

06/05/2021

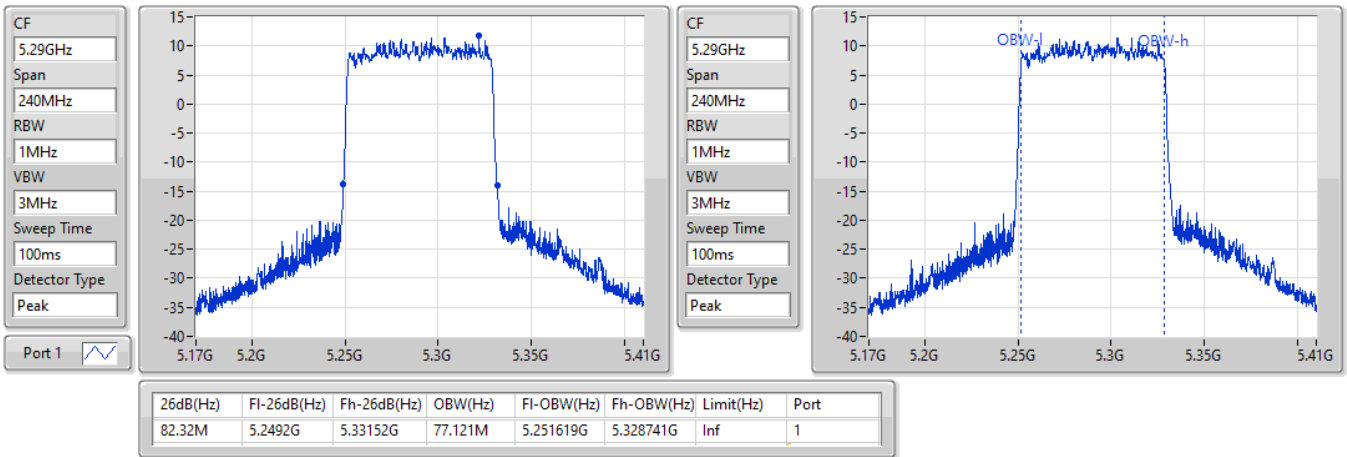

802.11ax HEW80_Nss1,(MCS0)_1TX
EBW
5210MHz

06/05/2021

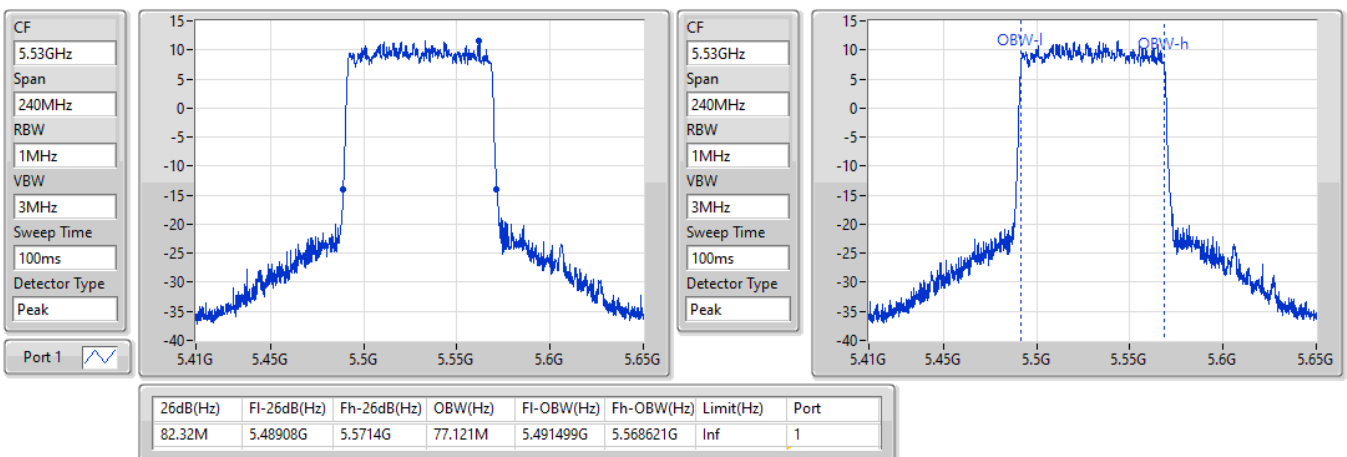


802.11ax HEW80_Nss1,(MCS0)_1TX
EBW
5290MHz

06/05/2021


802.11ax HEW80_Nss1,(MCS0)_1TX
EBW
5530MHz

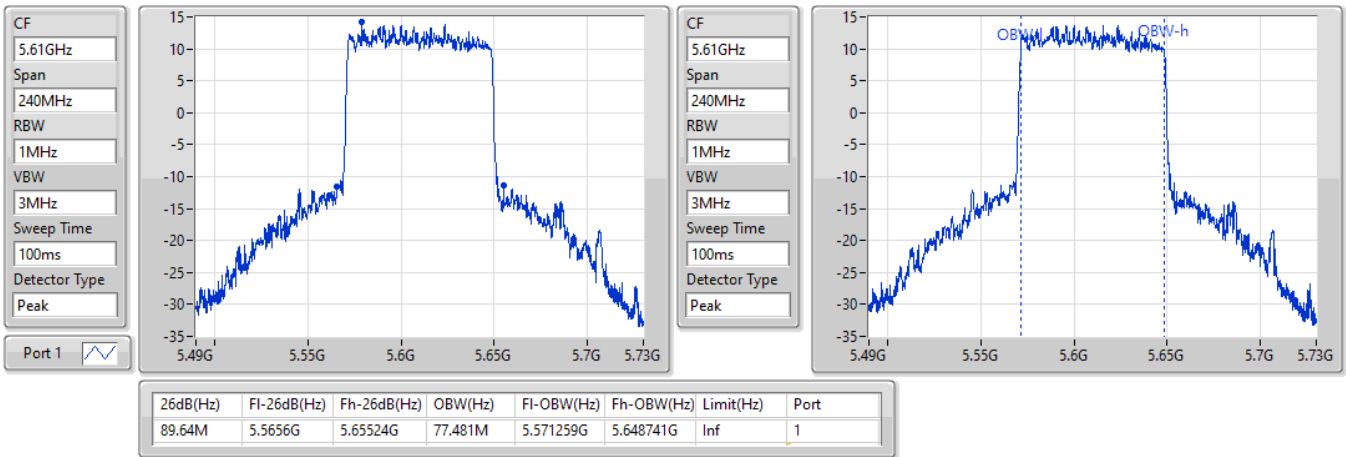
06/05/2021



802.11ax HEW80_Nss1,(MCS0)_1TX

EBW
5610MHz

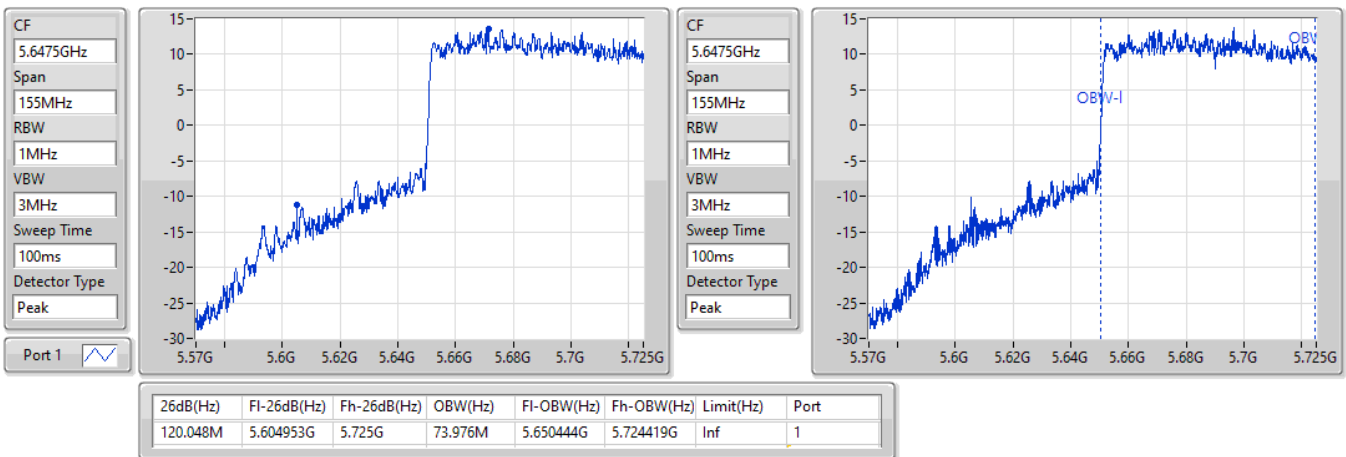
15/05/2021



802.11ax HEW80_Nss1,(MCS0)_1TX

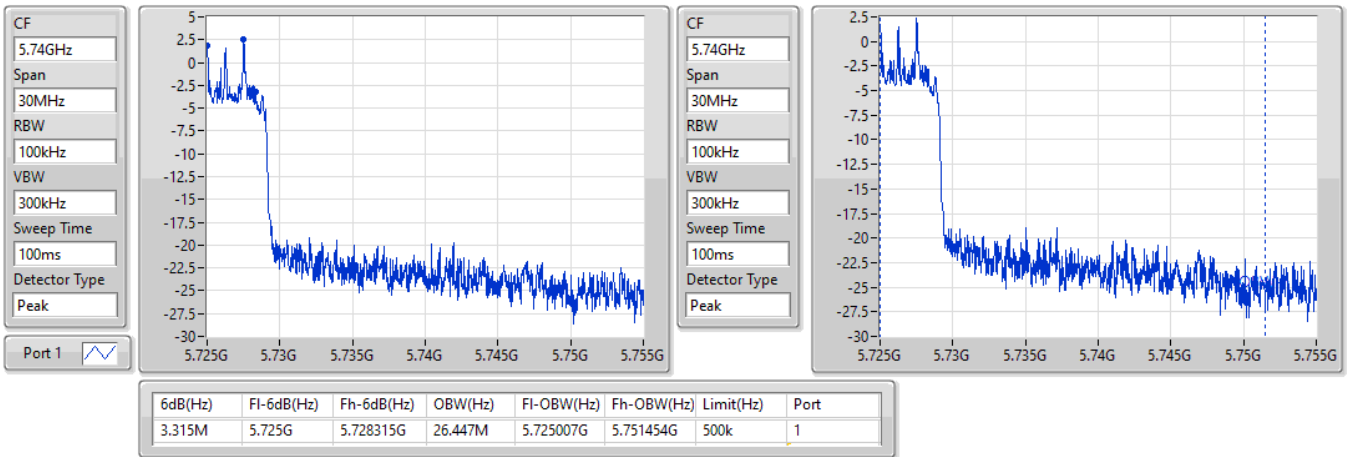
EBW
5690MHz Straddle 5.47-5.725GHz

11/06/2021

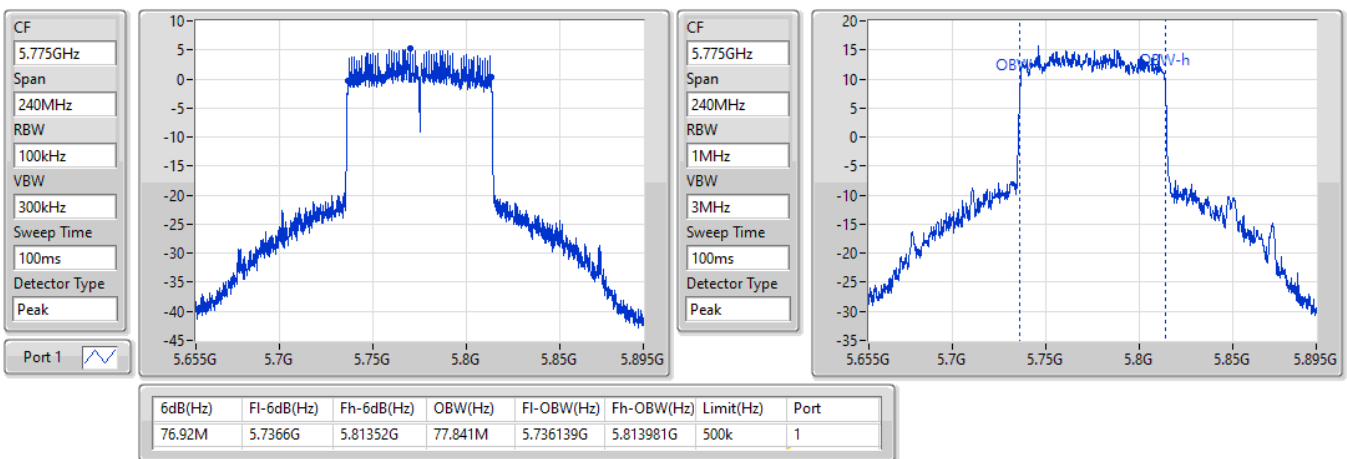


802.11ax HEW80_Nss1,(MCS0)_1TX
EBW
5690MHz Straddle 5.725-5.85GHz

11/06/2021


802.11ax HEW80_Nss1,(MCS0)_1TX
EBW
5775MHz

06/05/2021



**For Radio 2 / 1T1S
Summary**

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.15-5.25GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	33.48M	17.271M	17M3D1D	28.02M	17.181M
802.11ax HEW20_Nss1,(MCS0)_1TX	29.43M	19.16M	19M2D1D	26.16M	19.1M
802.11ax HEW40_Nss1,(MCS0)_1TX	48.72M	37.781M	37M8D1D	40.2M	37.601M
802.11ax HEW80_Nss1,(MCS0)_1TX	82.32M	77.241M	77M2D1D	82.32M	77.241M
5.25-5.35GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	33.48M	17.211M	17M2D1D	27.84M	17.031M
802.11ax HEW20_Nss1,(MCS0)_1TX	30.24M	19.19M	19M2D1D	23.7M	19.1M
802.11ax HEW40_Nss1,(MCS0)_1TX	47.22M	37.721M	37M7D1D	39.96M	37.601M
802.11ax HEW80_Nss1,(MCS0)_1TX	82.08M	77.121M	77M1D1D	82.08M	77.121M

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

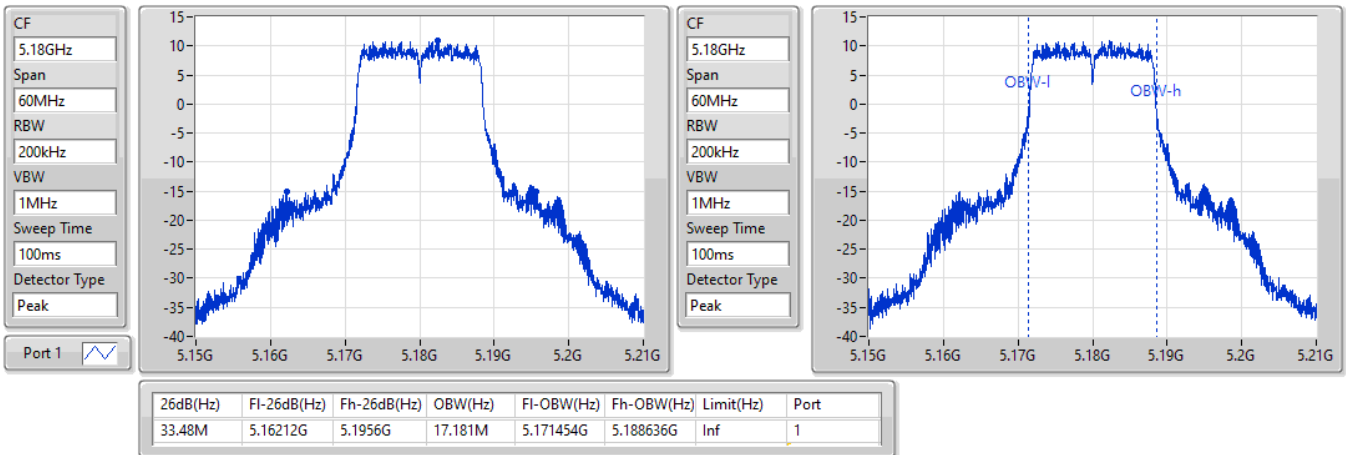
Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
802.11a_Nss1,(6Mbps)_1TX	-	-	-	-
5180MHz	Pass	Inf	33.48M	17.181M
5200MHz	Pass	Inf	28.08M	17.271M
5240MHz	Pass	Inf	28.02M	17.211M
5260MHz	Pass	Inf	27.84M	17.211M
5300MHz	Pass	Inf	33.48M	17.181M
5320MHz	Pass	Inf	33.33M	17.031M
802.11ax HEW20_Nss1,(MCS0)_1TX	-	-	-	-
5180MHz	Pass	Inf	29.43M	19.13M
5200MHz	Pass	Inf	26.16M	19.1M
5240MHz	Pass	Inf	26.16M	19.16M
5260MHz	Pass	Inf	23.85M	19.13M
5300MHz	Pass	Inf	30.24M	19.19M
5320MHz	Pass	Inf	23.7M	19.1M
802.11ax HEW40_Nss1,(MCS0)_1TX	-	-	-	-
5190MHz	Pass	Inf	40.2M	37.601M
5230MHz	Pass	Inf	48.72M	37.781M
5270MHz	Pass	Inf	47.22M	37.721M
5310MHz	Pass	Inf	39.96M	37.601M
802.11ax HEW80_Nss1,(MCS0)_1TX	-	-	-	-
5210MHz	Pass	Inf	82.32M	77.241M
5290MHz	Pass	Inf	82.08M	77.121M

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

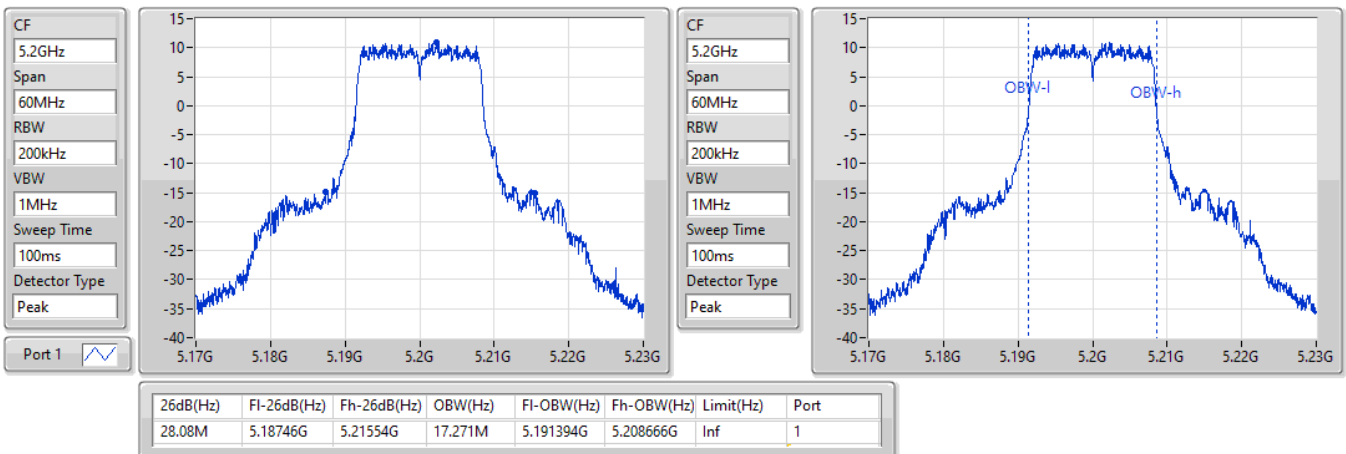
Port X-OBW = Port X 99% occupied bandwidth;

802.11a_Nss1,(6Mbps)_1TX
EBW
5180MHz

06/05/2021


802.11a_Nss1,(6Mbps)_1TX
EBW
5200MHz

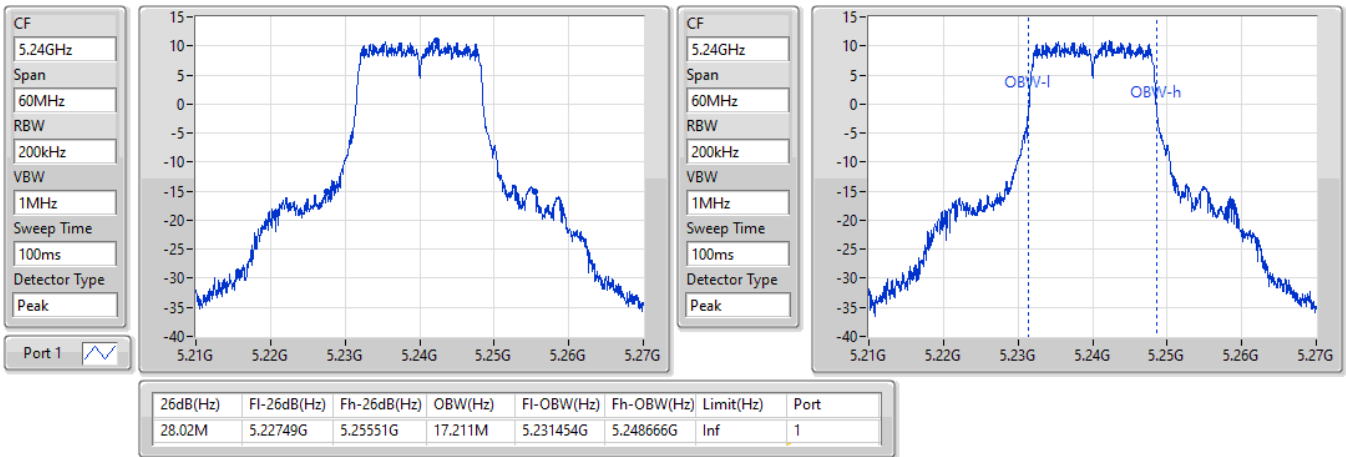
15/05/2021



802.11a_Nss1,(6Mbps)_1TX

EBW
5240MHz

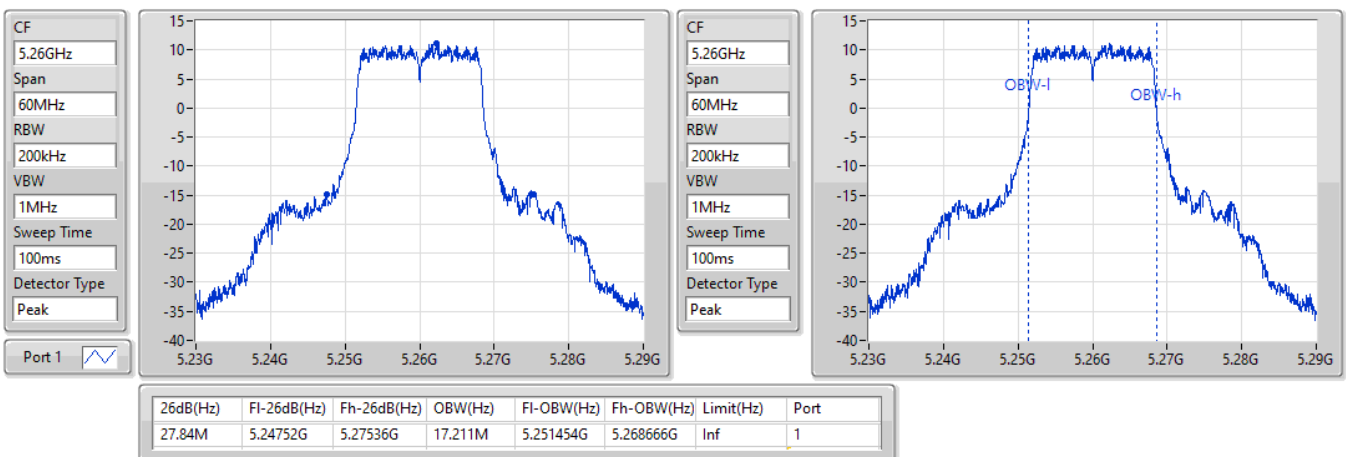
15/05/2021



802.11a_Nss1,(6Mbps)_1TX

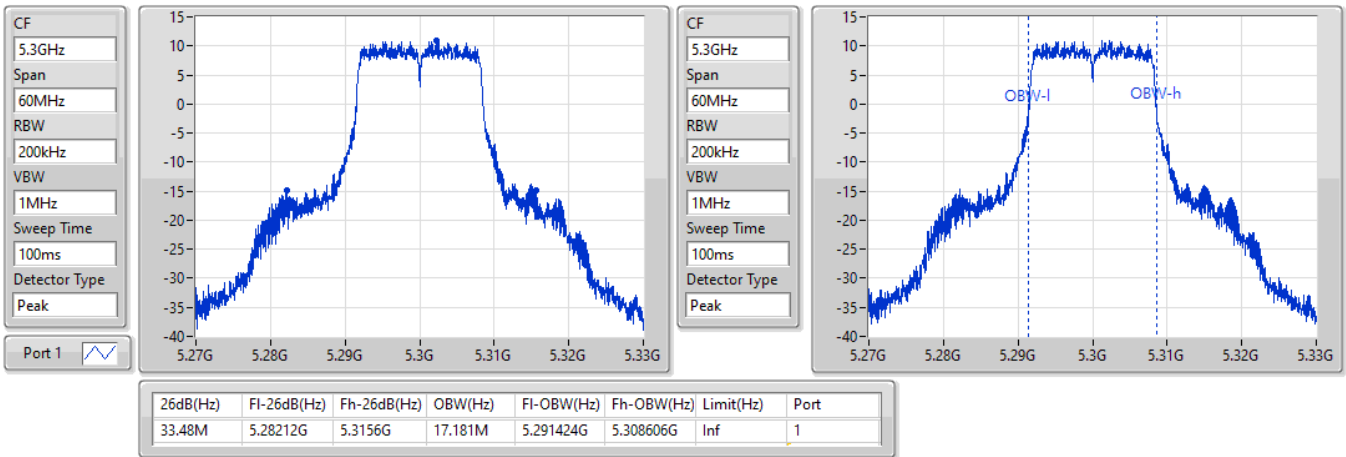
EBW
5260MHz

15/05/2021

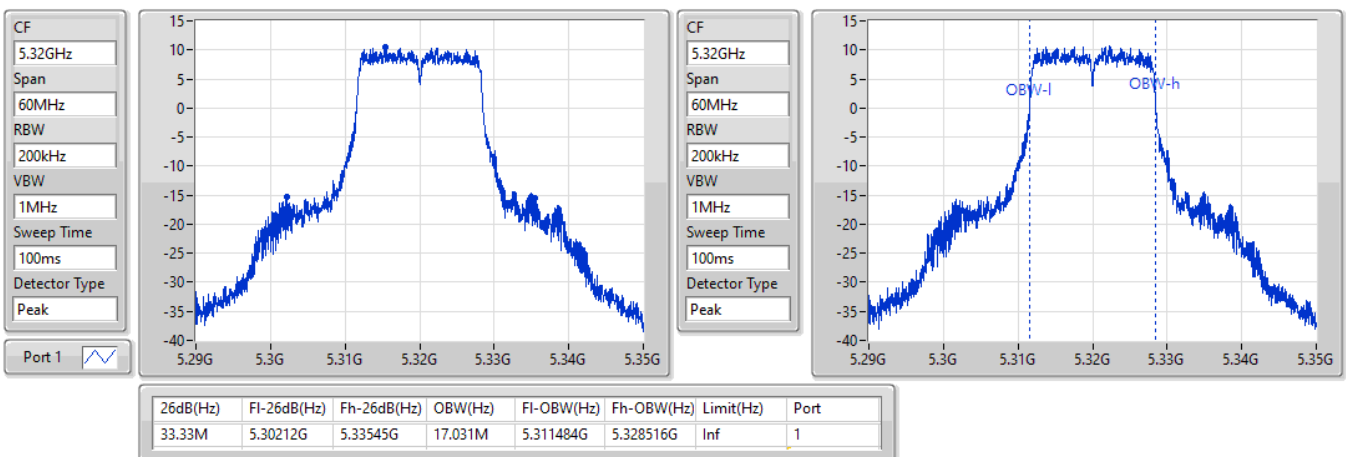


802.11a_Nss1,(6Mbps)_1TX
EBW
5300MHz

15/05/2021

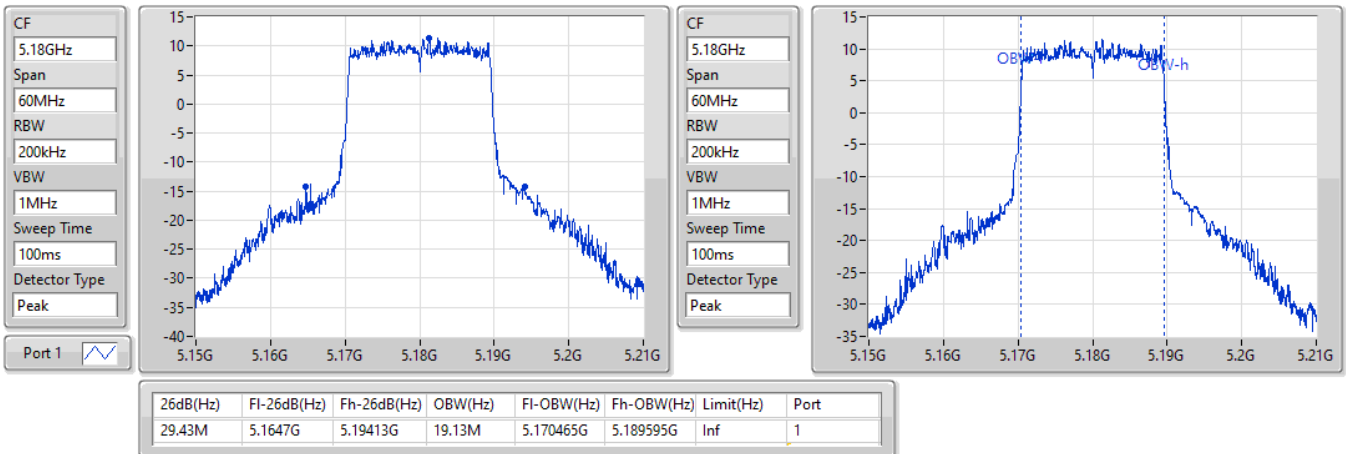

802.11a_Nss1,(6Mbps)_1TX
EBW
5320MHz

15/05/2021

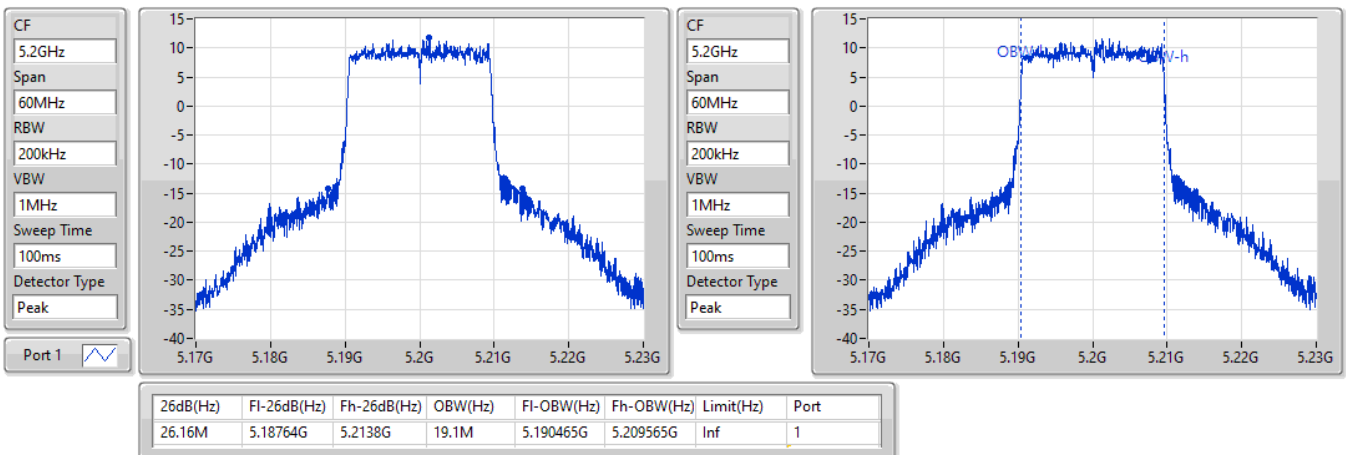


802.11ax HEW20_Nss1,(MCS0)_1TX
EBW
5180MHz

06/05/2021

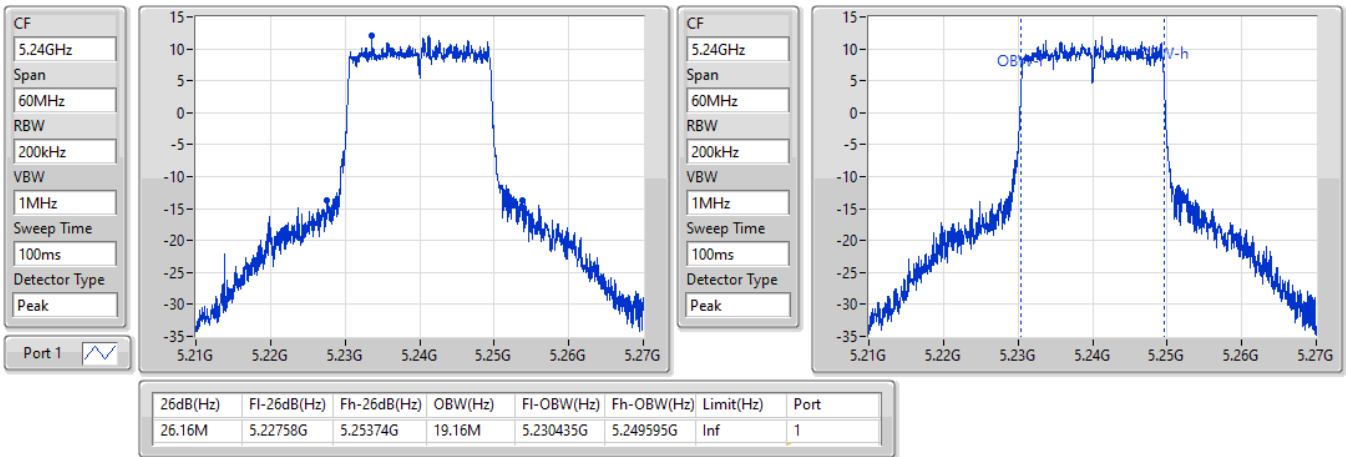

802.11ax HEW20_Nss1,(MCS0)_1TX
EBW
5200MHz

15/05/2021

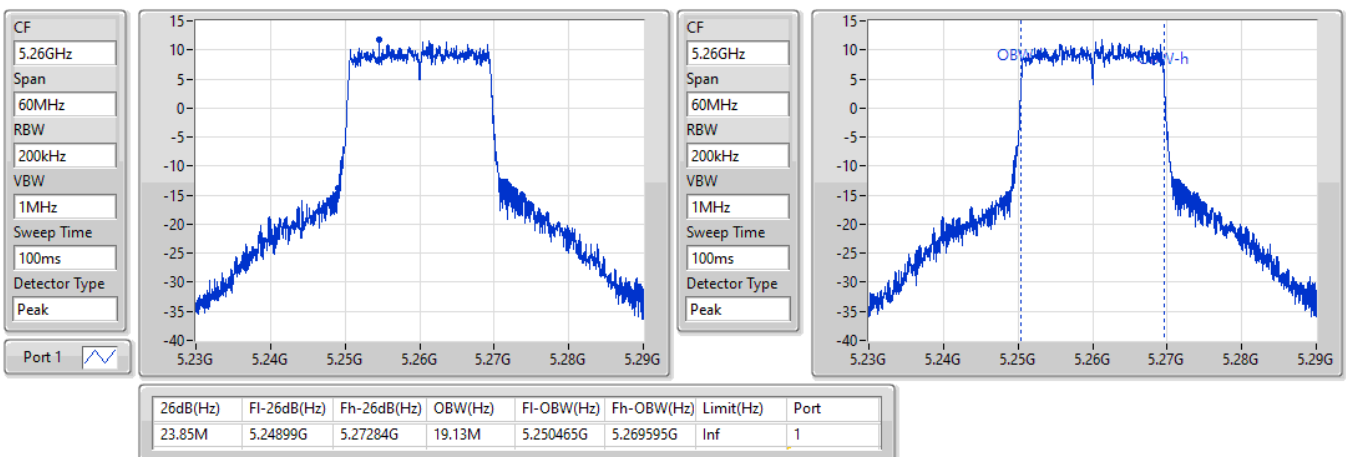


802.11ax HEW20_Nss1,(MCS0)_1TX
EBW
5240MHz

15/05/2021

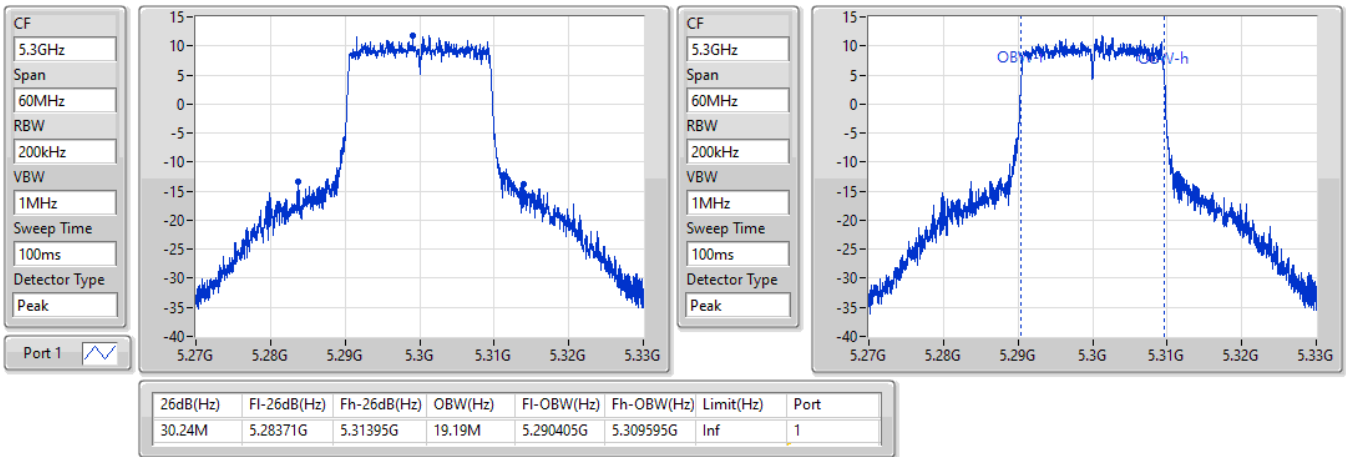

802.11ax HEW20_Nss1,(MCS0)_1TX
EBW
5260MHz

15/05/2021

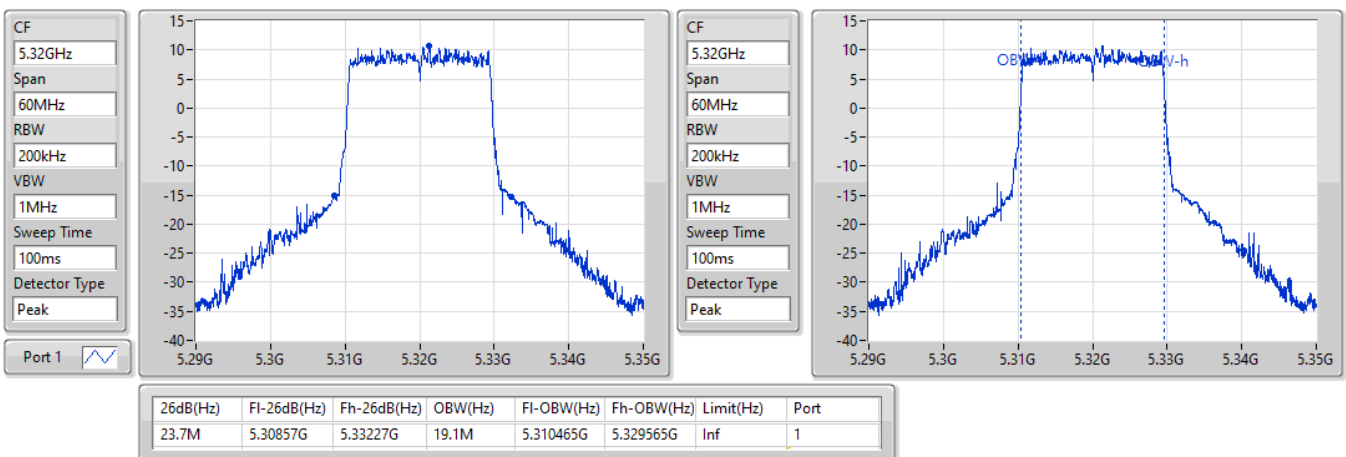


802.11ax HEW20_Nss1,(MCS0)_1TX
EBW
5300MHz

15/05/2021

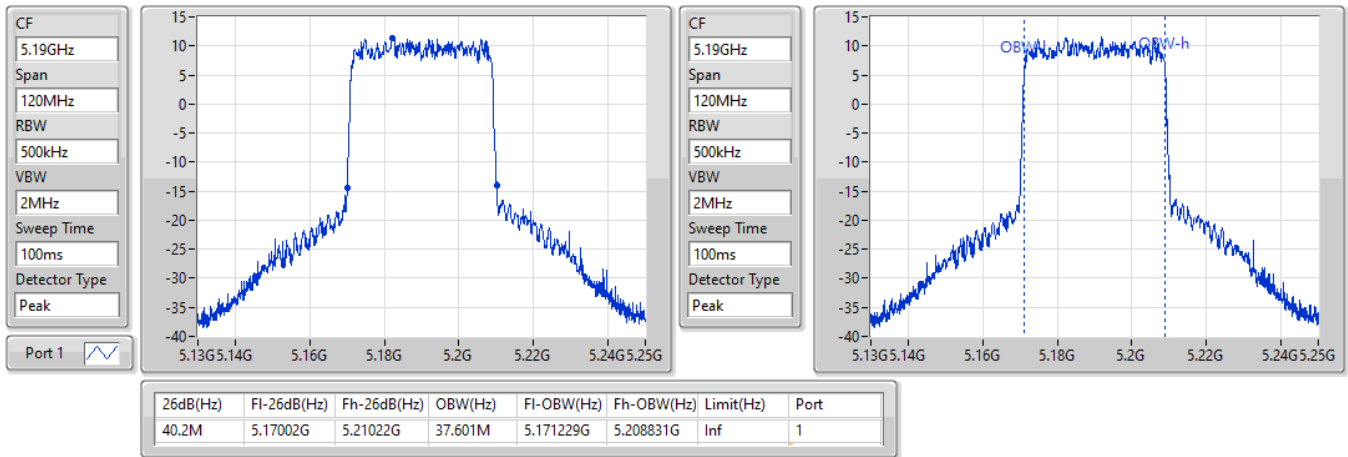

802.11ax HEW20_Nss1,(MCS0)_1TX
EBW
5320MHz

06/05/2021

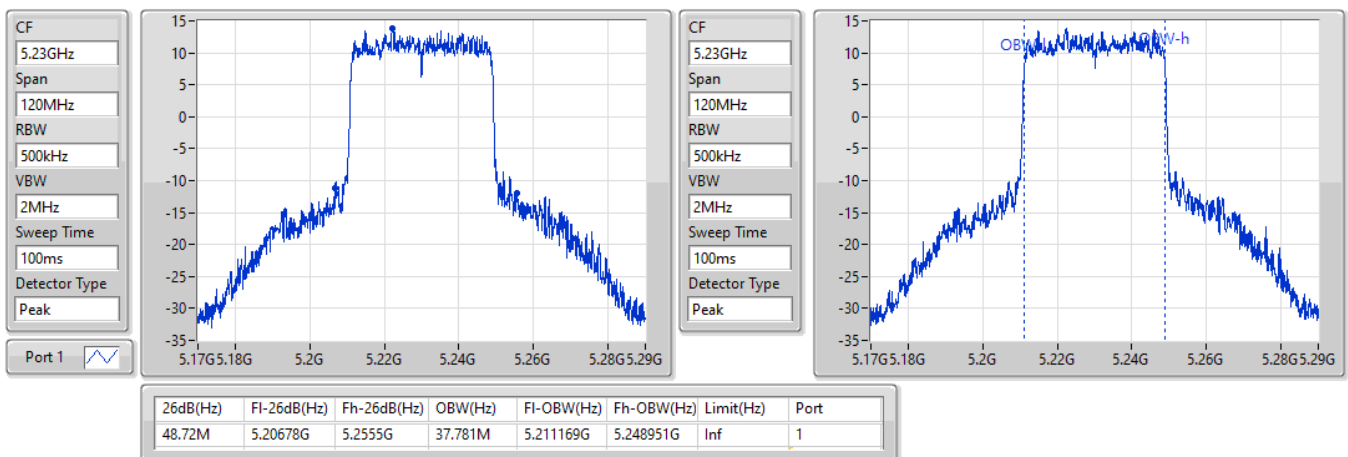


802.11ax HEW40_Nss1,(MCS0)_1TX
EBW
5190MHz

06/05/2021

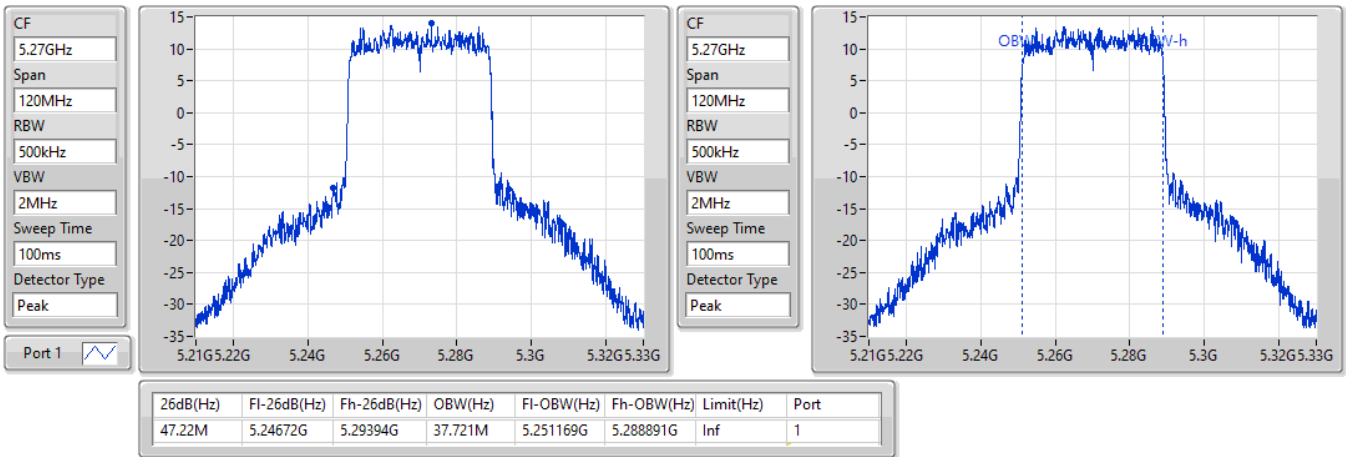

802.11ax HEW40_Nss1,(MCS0)_1TX
EBW
5230MHz

15/05/2021

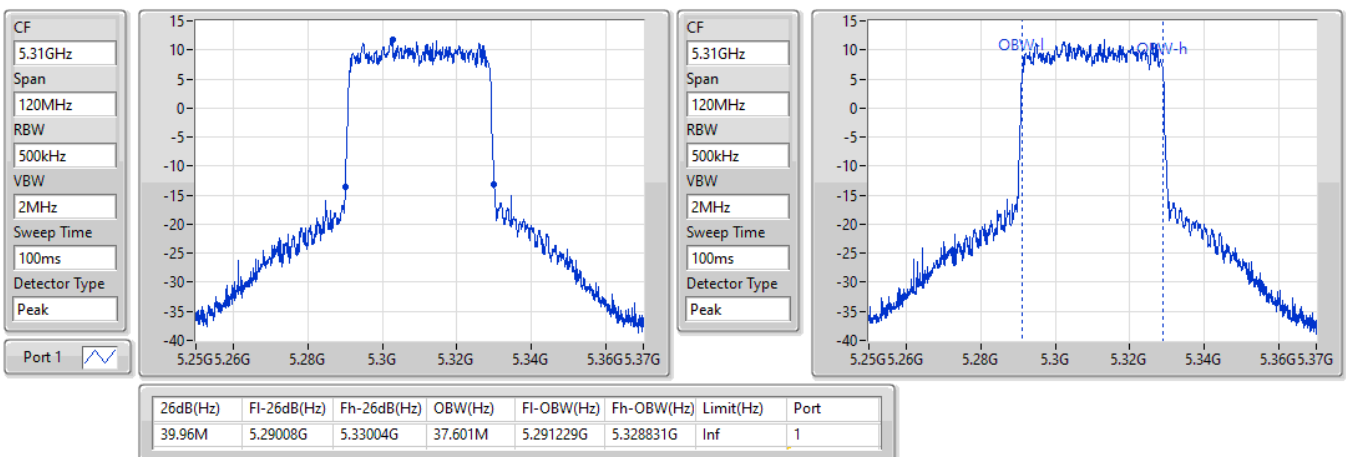


802.11ax HEW40_Nss1,(MCS0)_1TX
EBW
5270MHz

15/05/2021

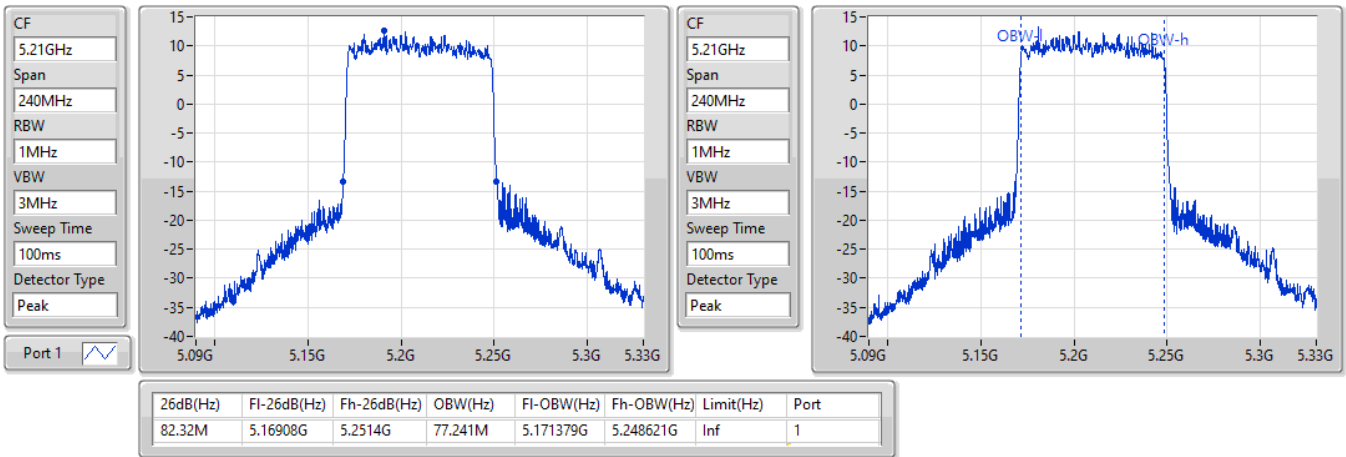

802.11ax HEW40_Nss1,(MCS0)_1TX
EBW
5310MHz

06/05/2021

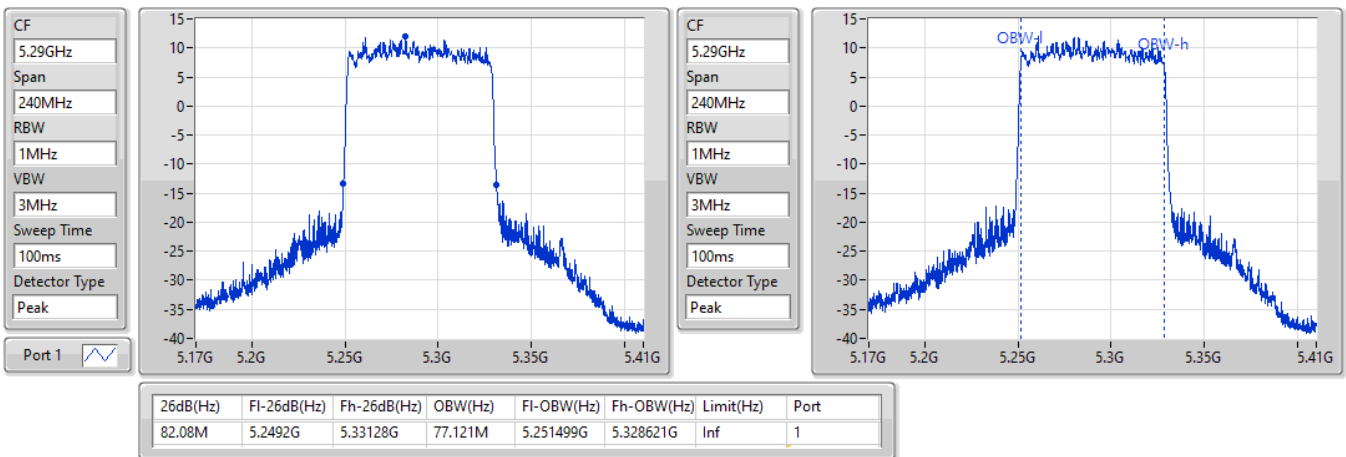


802.11ax HEW80_Nss1,(MCS0)_1TX
EBW
5210MHz

06/05/2021


802.11ax HEW80_Nss1,(MCS0)_1TX
EBW
5290MHz

06/05/2021



For Radio 2 / 2T1S
Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.15-5.25GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	21.72M	16.852M	16M9D1D	21.24M	16.642M
5.25-5.35GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	21.81M	16.852M	16M9D1D	21.27M	16.672M

Max-N dB = Maximum 6dB down bandwidth for 5.725-5.85GHz band / Maximum 26dB down bandwidth for other band;

Max-OBW = Maximum 99% occupied bandwidth;

Min-N dB = Minimum 6dB down bandwidth for 5.725-5.85GHz band / Maximum 26dB down bandwidth for other band;

Min-OBW = Minimum 99% occupied bandwidth;

Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
5180MHz	Pass	Inf	21.27M	16.822M	21.69M	16.672M
5200MHz	Pass	Inf	21.24M	16.822M	21.72M	16.702M
5240MHz	Pass	Inf	21.27M	16.852M	21.69M	16.642M
5260MHz	Pass	Inf	21.27M	16.822M	21.81M	16.672M
5300MHz	Pass	Inf	21.27M	16.822M	21.72M	16.672M
5320MHz	Pass	Inf	21.27M	16.852M	21.81M	16.702M

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

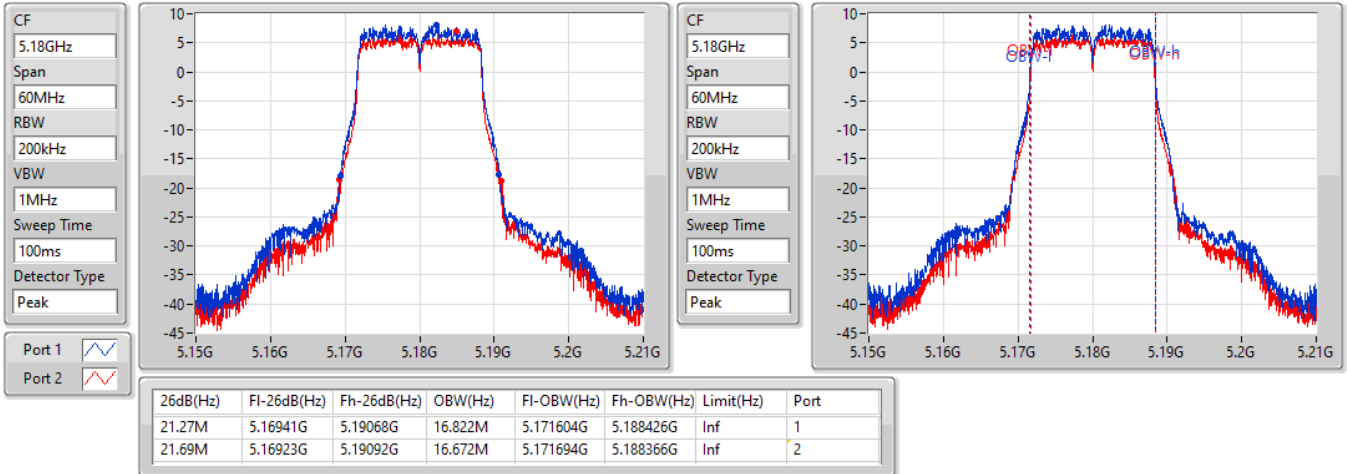
Port X-OBW = Port X 99% occupied bandwidth;

802.11a_Nss1,(6Mbps)_2TX

EBW

5180MHz

15/05/2021

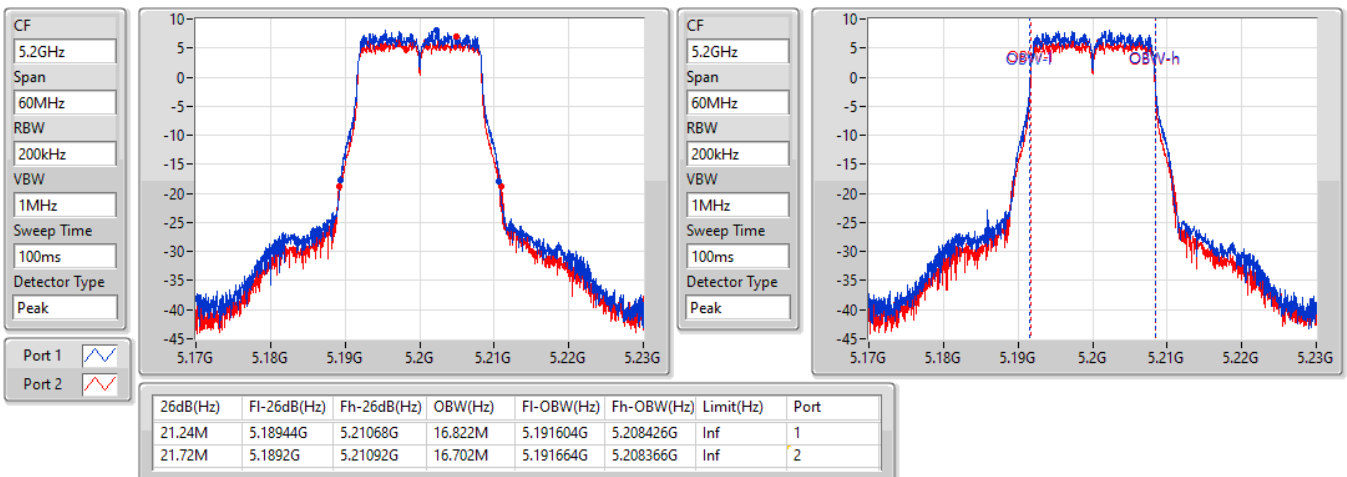


802.11a_Nss1,(6Mbps)_2TX

EBW

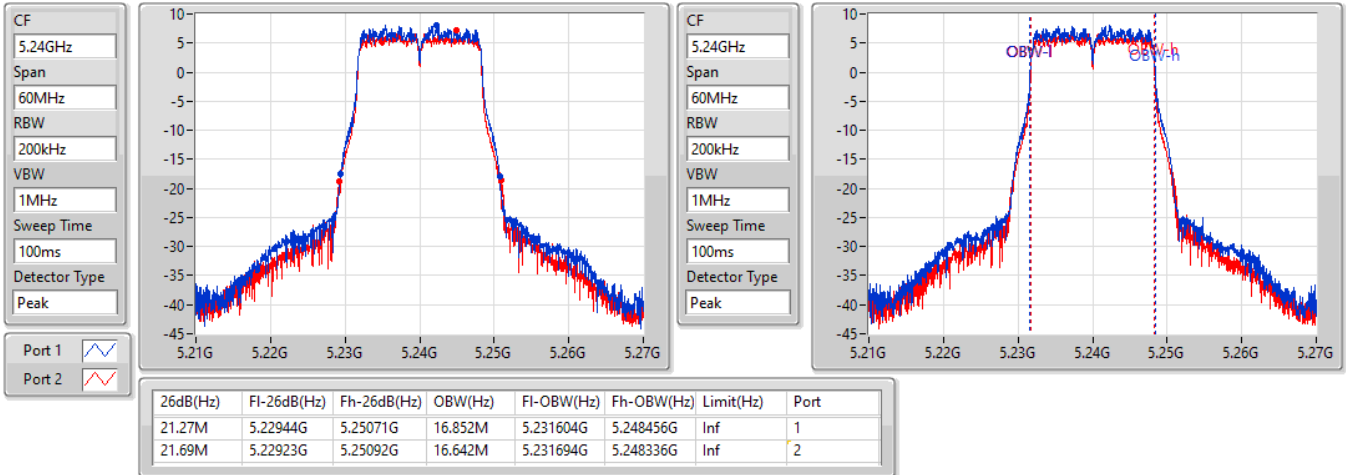
5200MHz

15/05/2021

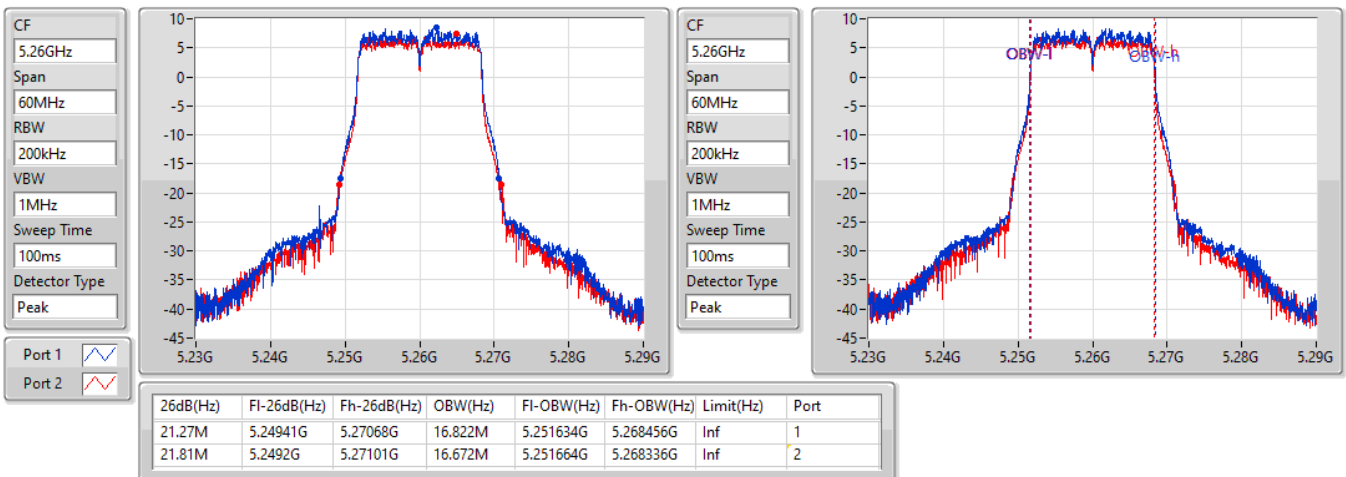


802.11a_Nss1,(6Mbps)_2TX
EBW
5240MHz

15/05/2021

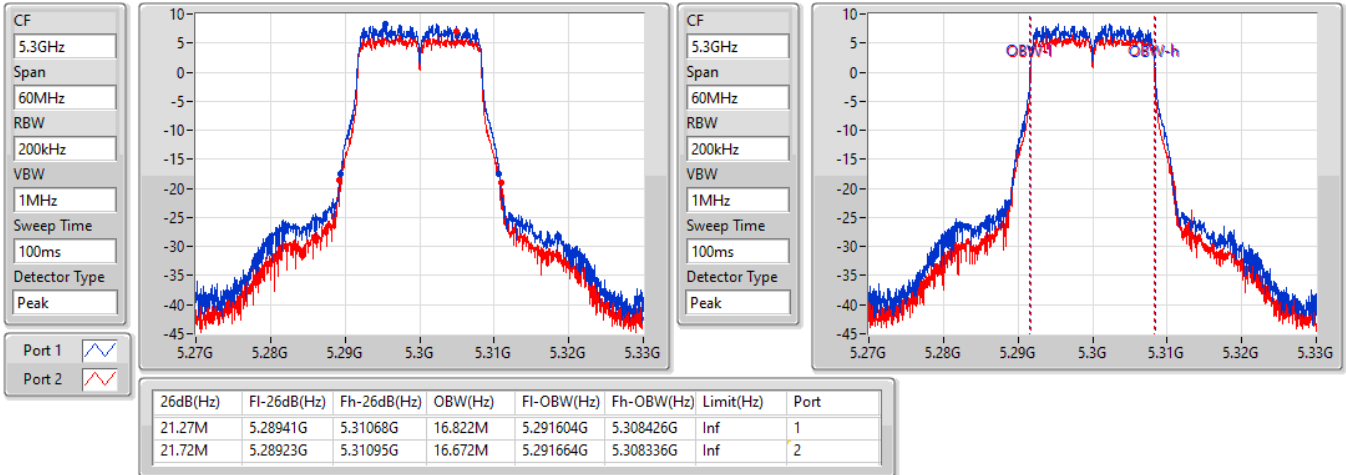

802.11a_Nss1,(6Mbps)_2TX
EBW
5260MHz

15/05/2021

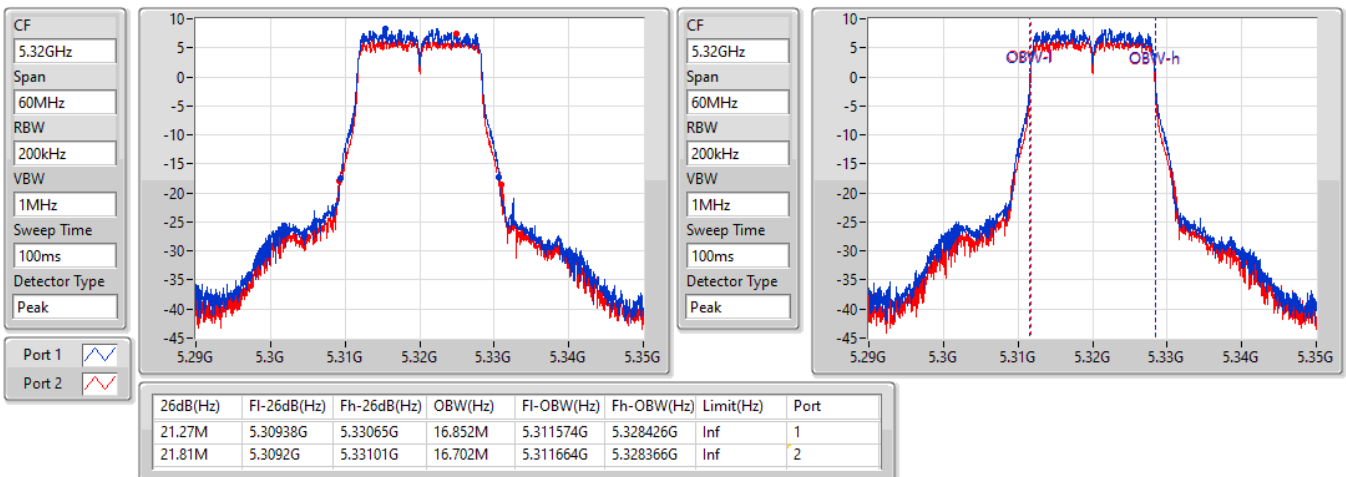


802.11a_Nss1,(6Mbps)_2TX
EBW
5300MHz

15/05/2021


802.11a_Nss1,(6Mbps)_2TX
EBW
5320MHz

15/05/2021



**For Radio 2 / 2T2S
Summary**

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.15-5.25GHz	-	-	-	-	-
802.11ax HEW20_Nss2,(MCS0)_2TX	21.6M	19.07M	19M1D1D	21.33M	19.04M
802.11ax HEW40_Nss2,(MCS0)_2TX	40.26M	37.661M	37M7D1D	39.9M	37.601M
802.11ax HEW80_Nss2,(MCS0)_2TX	81.6M	77.121M	77M1D1D	81.24M	77.001M
5.25-5.35GHz	-	-	-	-	-
802.11ax HEW20_Nss2,(MCS0)_2TX	21.66M	19.07M	19M1D1D	21.33M	19.01M
802.11ax HEW40_Nss2,(MCS0)_2TX	40.14M	37.721M	37M7D1D	40.02M	37.541M
802.11ax HEW80_Nss2,(MCS0)_2TX	81.36M	77.121M	77M1D1D	81.12M	77.121M

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

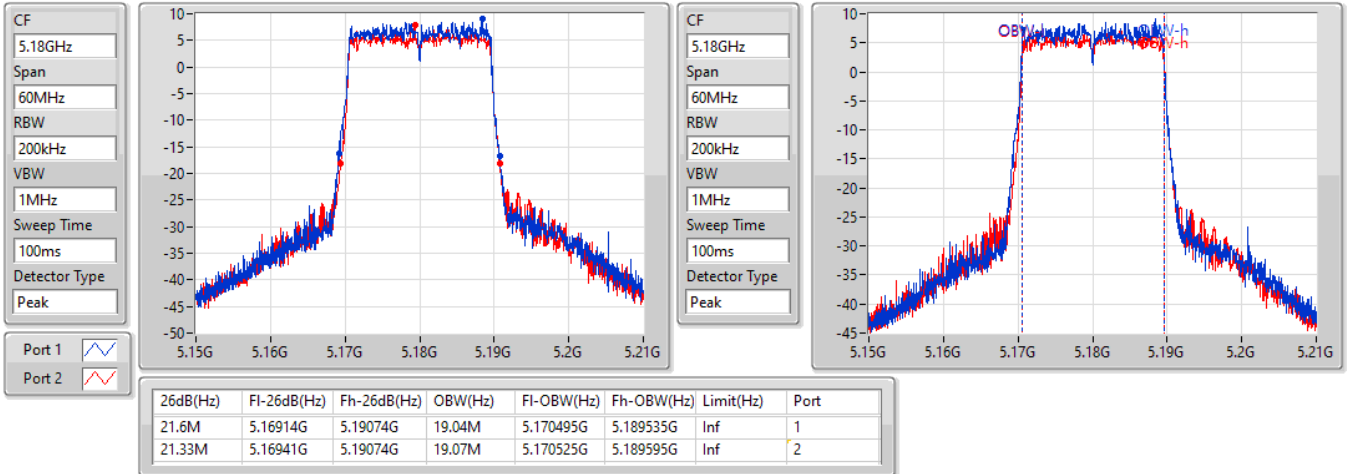
Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
802.11ax HEW20_Nss2,(MCS0)_2TX	-	-	-	-	-	-
5180MHz	Pass	Inf	21.6M	19.04M	21.33M	19.07M
5200MHz	Pass	Inf	21.54M	19.04M	21.42M	19.07M
5240MHz	Pass	Inf	21.48M	19.04M	21.42M	19.04M
5260MHz	Pass	Inf	21.66M	19.04M	21.33M	19.04M
5300MHz	Pass	Inf	21.54M	19.04M	21.36M	19.01M
5320MHz	Pass	Inf	21.63M	19.04M	21.36M	19.07M
802.11ax HEW40_Nss2,(MCS0)_2TX	-	-	-	-	-	-
5190MHz	Pass	Inf	40.02M	37.661M	39.9M	37.601M
5230MHz	Pass	Inf	40.02M	37.661M	40.26M	37.601M
5270MHz	Pass	Inf	40.08M	37.661M	40.08M	37.541M
5310MHz	Pass	Inf	40.02M	37.721M	40.14M	37.601M
802.11ax HEW80_Nss2,(MCS0)_2TX	-	-	-	-	-	-
5210MHz	Pass	Inf	81.24M	77.121M	81.6M	77.001M
5290MHz	Pass	Inf	81.12M	77.121M	81.36M	77.121M

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

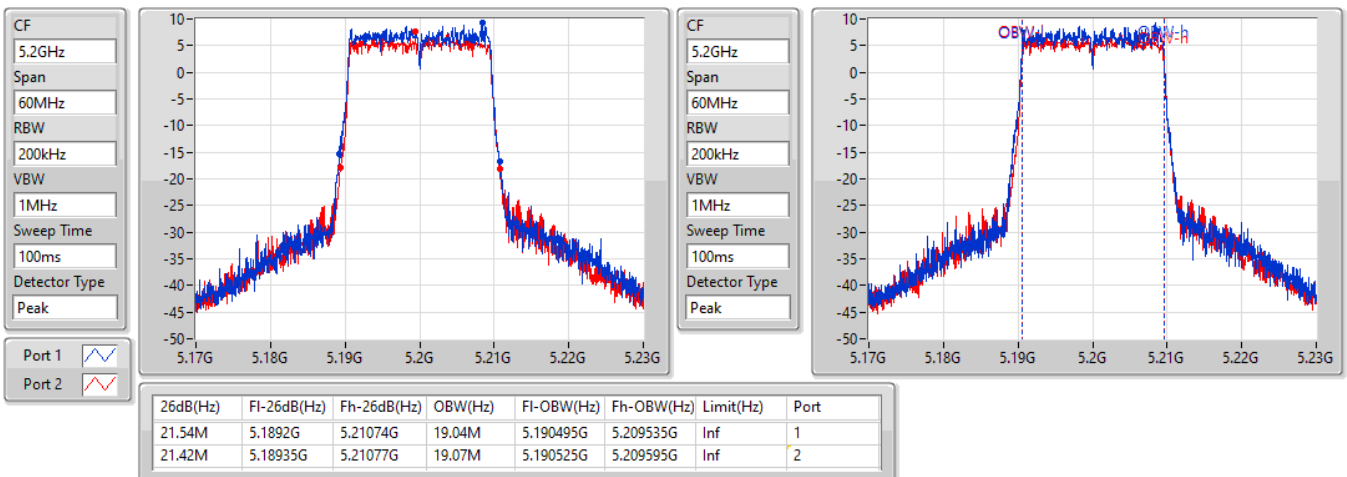
Port X-OBW = Port X 99% occupied bandwidth;

802.11ax HEW20_Nss2,(MCS0)_2TX
EBW
5180MHz

15/05/2021

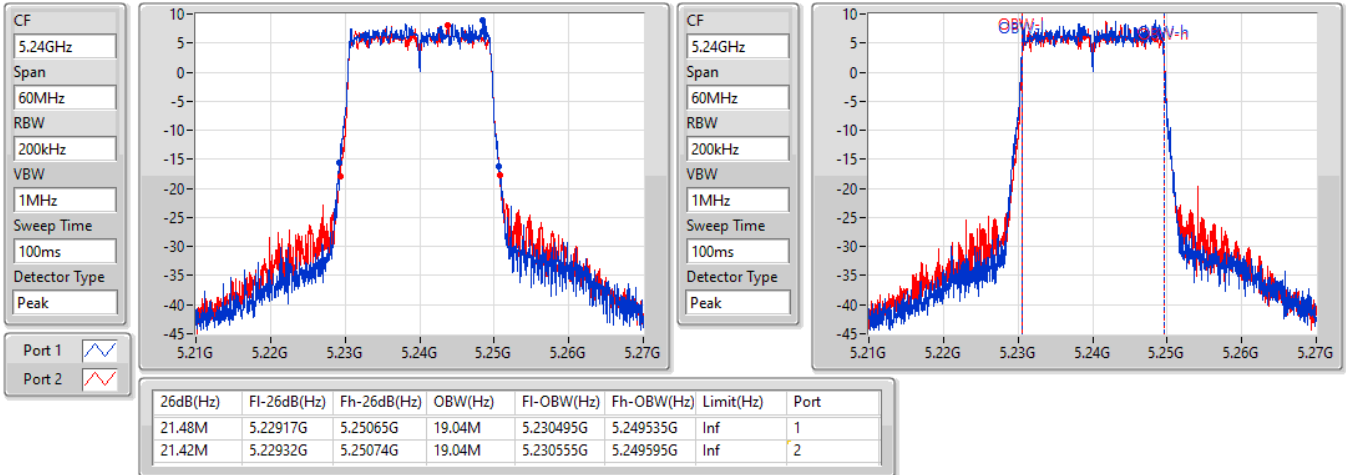

802.11ax HEW20_Nss2,(MCS0)_2TX
EBW
5200MHz

15/05/2021

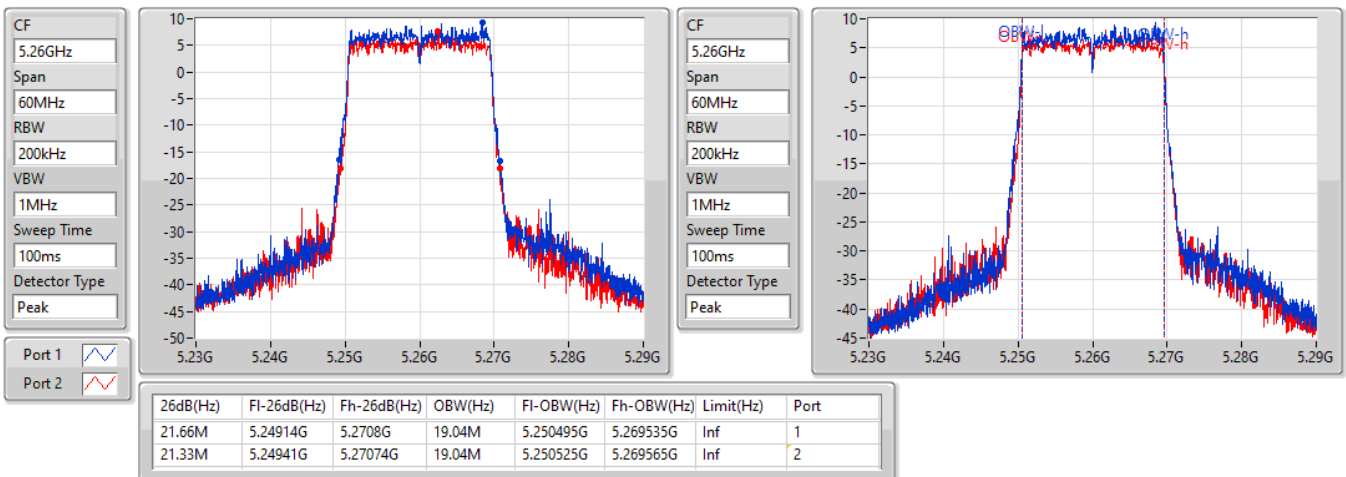


802.11ax HEW20_Nss2,(MCS0)_2TX
EBW
5240MHz

15/05/2021

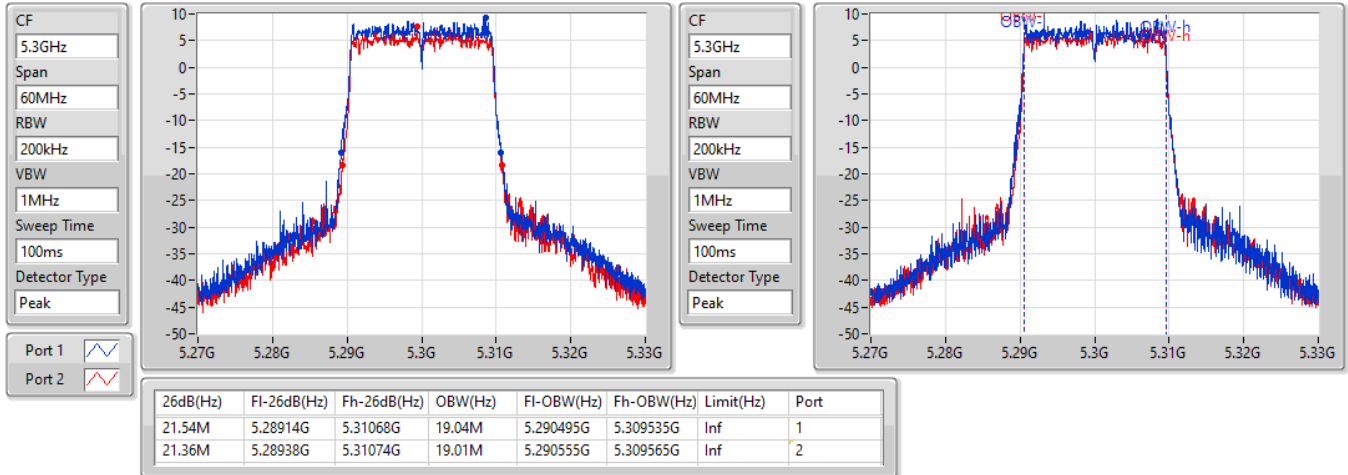

802.11ax HEW20_Nss2,(MCS0)_2TX
EBW
5260MHz

15/05/2021

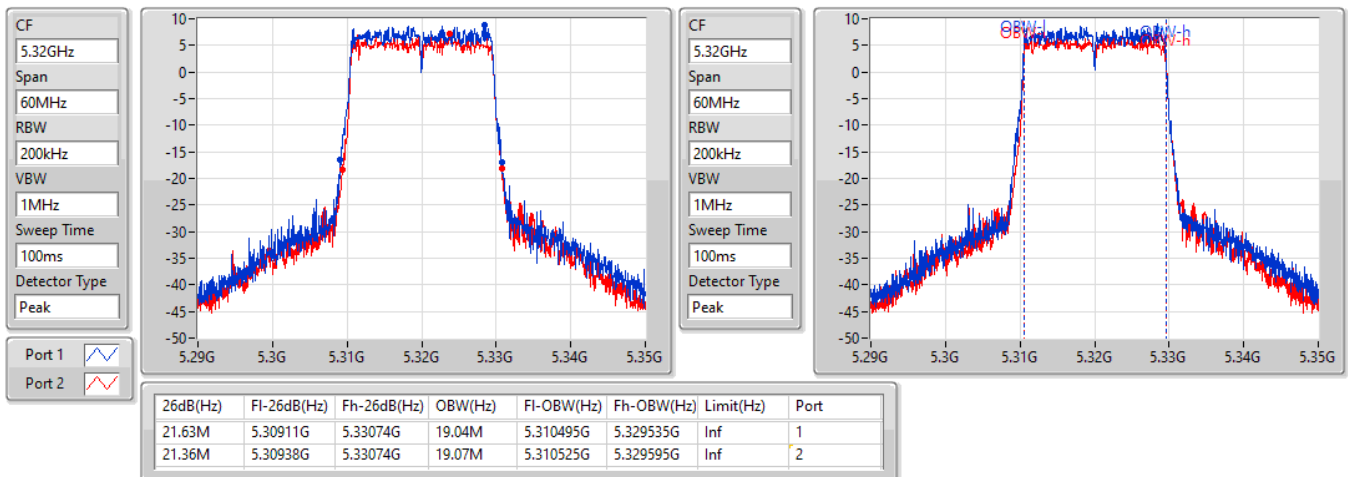


802.11ax HEW20_Nss2,(MCS0)_2TX
EBW
5300MHz

15/05/2021

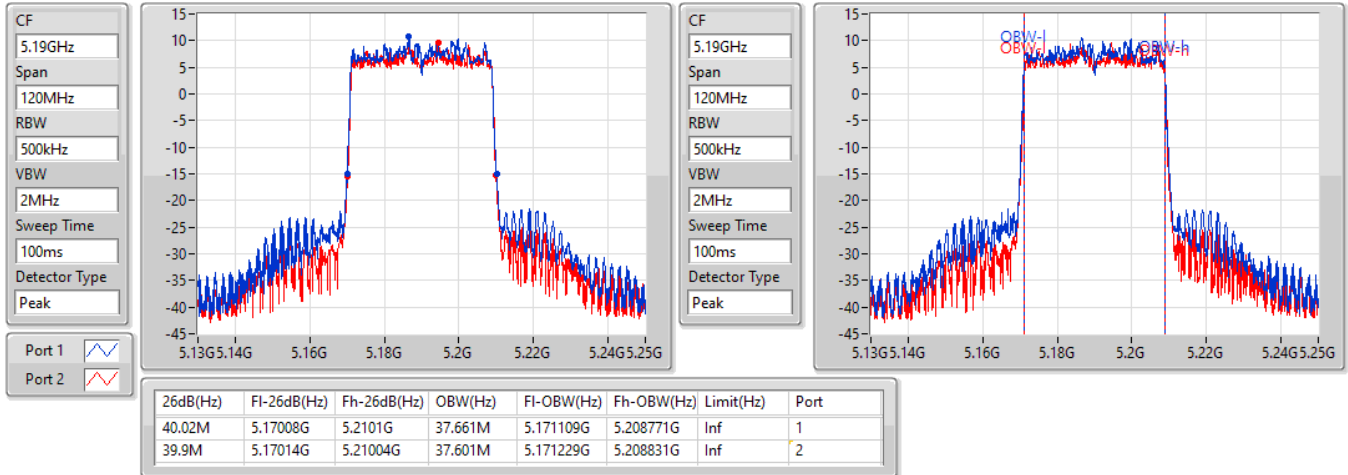

802.11ax HEW20_Nss2,(MCS0)_2TX
EBW
5320MHz

15/05/2021

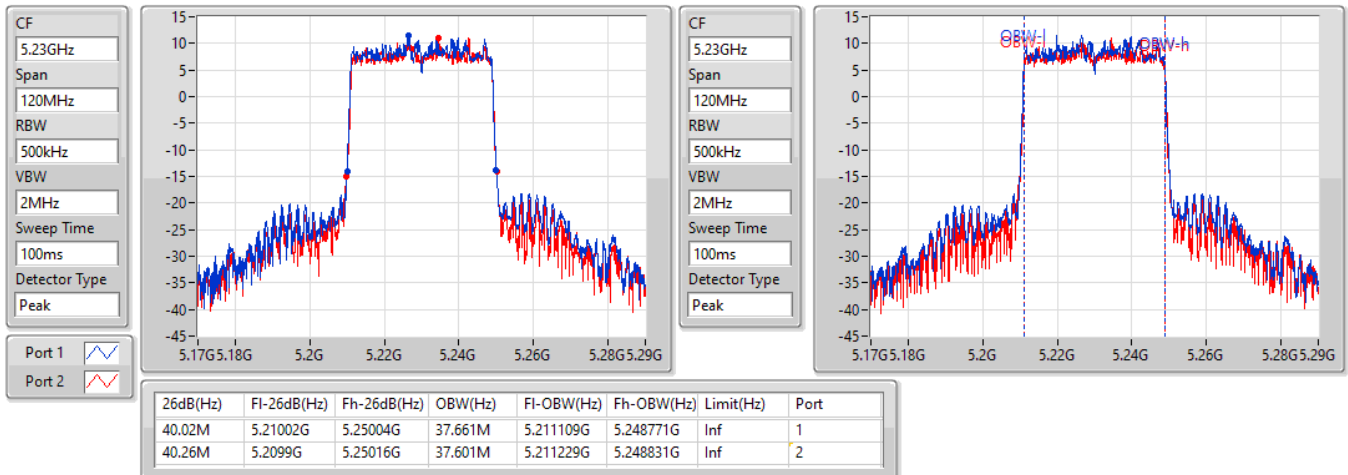


802.11ax HEW40_Nss2,(MCS0)_2TX
EBW
5190MHz

06/05/2021


802.11ax HEW40_Nss2,(MCS0)_2TX
EBW
5230MHz

15/05/2021

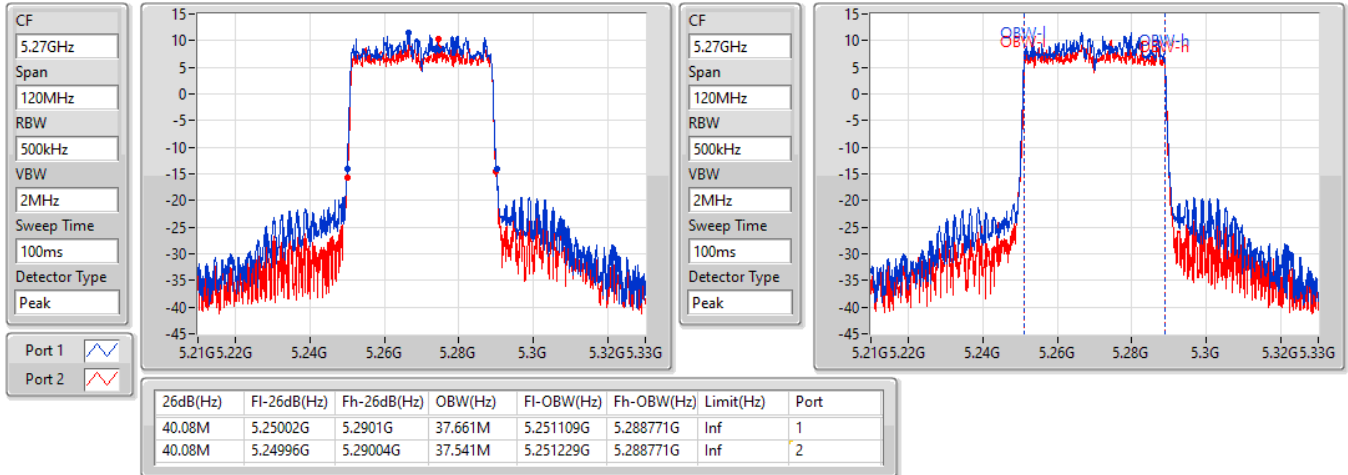


802.11ax HEW40_Nss2,(MCS0)_2TX

EBW

5270MHz

15/05/2021

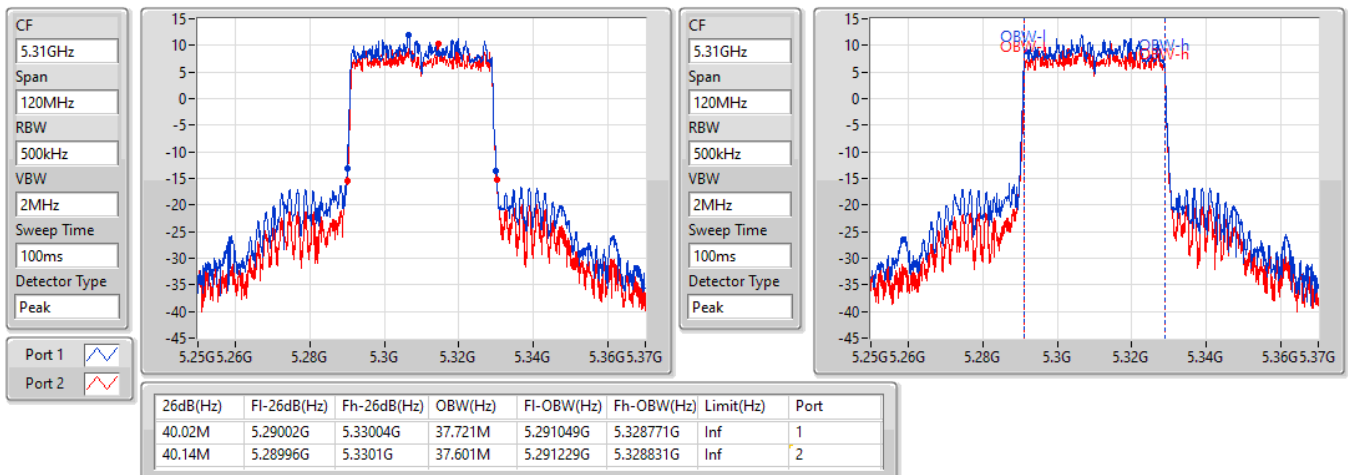


802.11ax HEW40_Nss2,(MCS0)_2TX

EBW

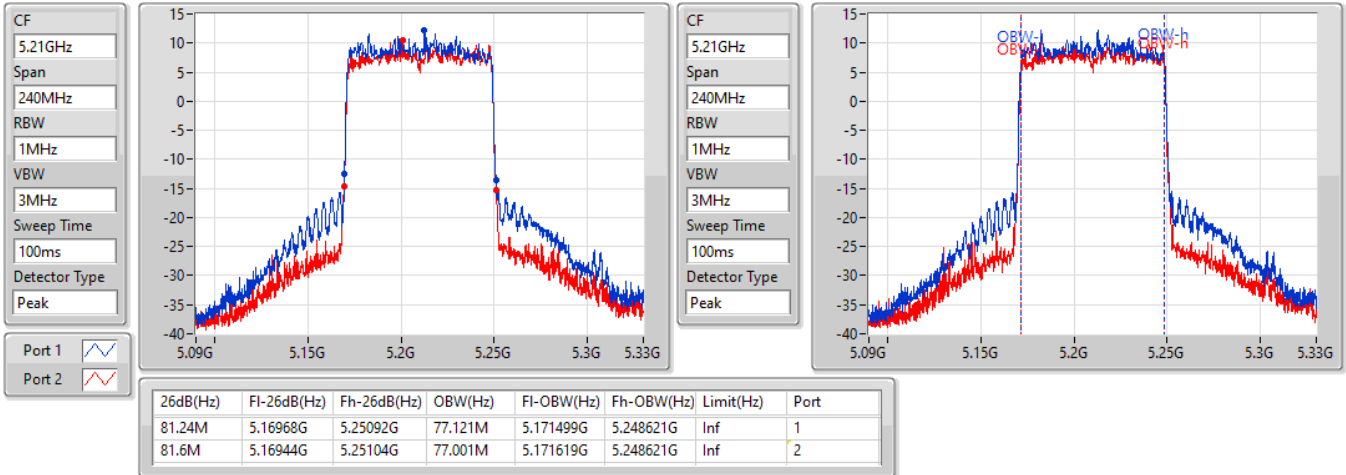
5310MHz

15/05/2021

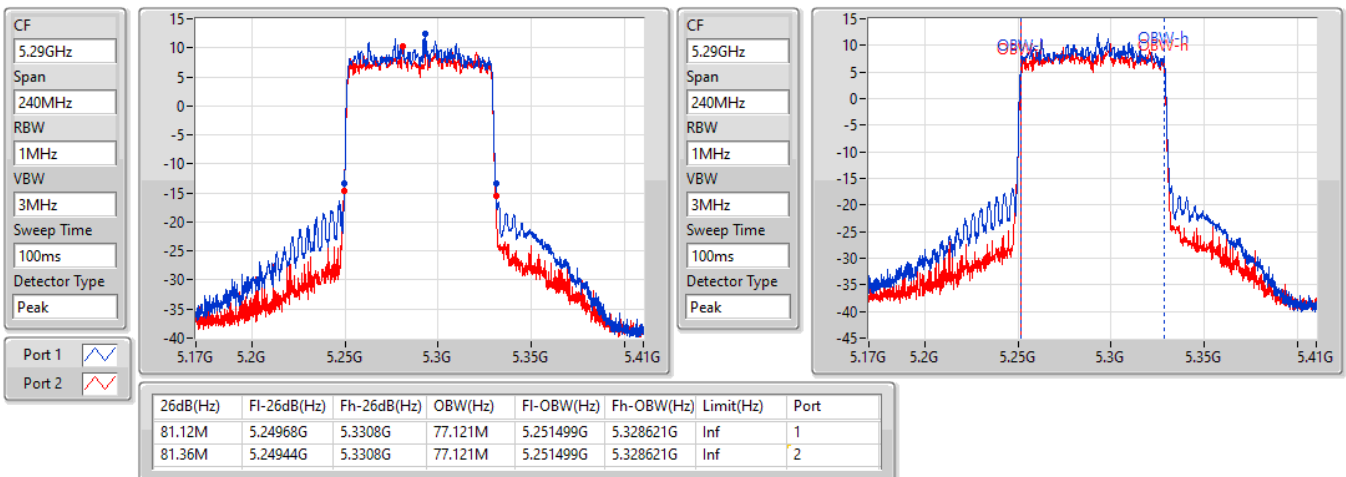


802.11ax HEW80_Nss2,(MCS0)_2TX
EBW
5210MHz

15/05/2021


802.11ax HEW80_Nss2,(MCS0)_2TX
EBW
5290MHz

06/05/2021



**For Radio 3 / 2T1S
Summary**

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.15-5.25GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	21.12M	16.762M	16M8D1D	20.91M	16.612M
5.25-5.35GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	21.15M	16.732M	16M7D1D	21M	16.642M
5.47-5.725GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	21.27M	16.732M	16M7D1D	15.575M	13.416M
5.725-5.85GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	16.44M	38.711M	38M7D1D	4.32M	4.663M

Max-N dB = Maximum 6dB down bandwidth for 5.725-5.85GHz band / Maximum 26dB down bandwidth for other band;

Max-OBW = Maximum 99% occupied bandwidth;

Min-N dB = Minimum 6dB down bandwidth for 5.725-5.85GHz band / Maximum 26dB down bandwidth for other band;

Min-OBW = Minimum 99% occupied bandwidth;

Result

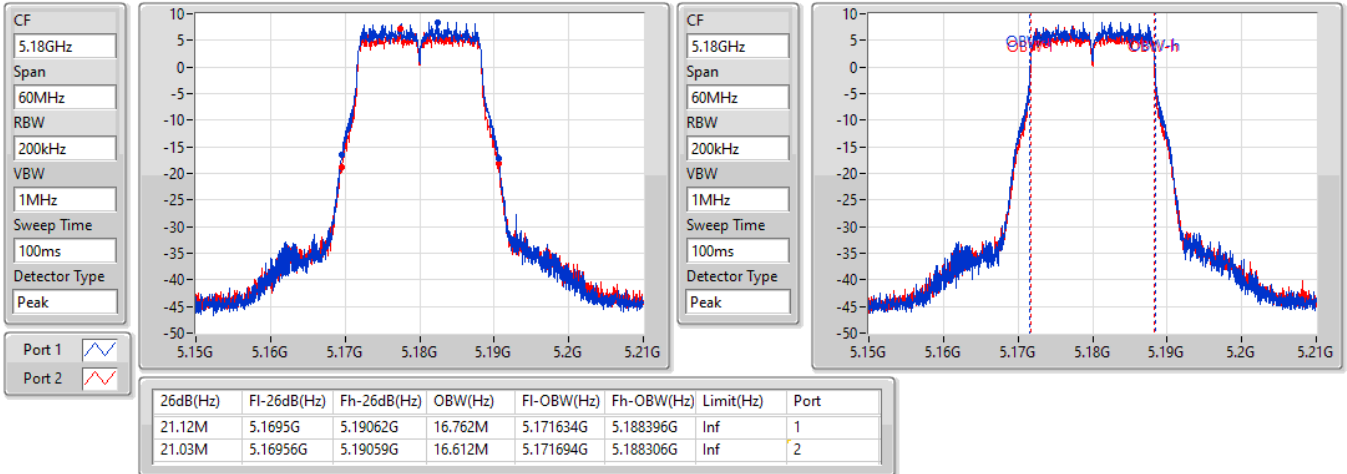
Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
5180MHz	Pass	Inf	21.12M	16.762M	21.03M	16.612M
5200MHz	Pass	Inf	21.09M	16.762M	21M	16.672M
5240MHz	Pass	Inf	21.06M	16.762M	20.91M	16.672M
5260MHz	Pass	Inf	21.12M	16.732M	21.09M	16.642M
5300MHz	Pass	Inf	21.15M	16.732M	21.03M	16.642M
5320MHz	Pass	Inf	21.06M	16.732M	21M	16.672M
5500MHz	Pass	Inf	21.12M	16.732M	21.06M	16.642M
5580MHz	Pass	Inf	21.27M	16.732M	20.85M	16.642M
5700MHz	Pass	Inf	21.12M	16.732M	21.09M	16.642M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	15.575M	13.416M	15.575M	13.416M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	4.47M	4.663M	4.32M	4.708M
5745MHz	Pass	500k	16.35M	37.661M	16.32M	24.048M
5785MHz	Pass	500k	16.44M	38.711M	16.32M	23.658M
5825MHz	Pass	500k	16.41M	37.451M	16.41M	25.607M

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

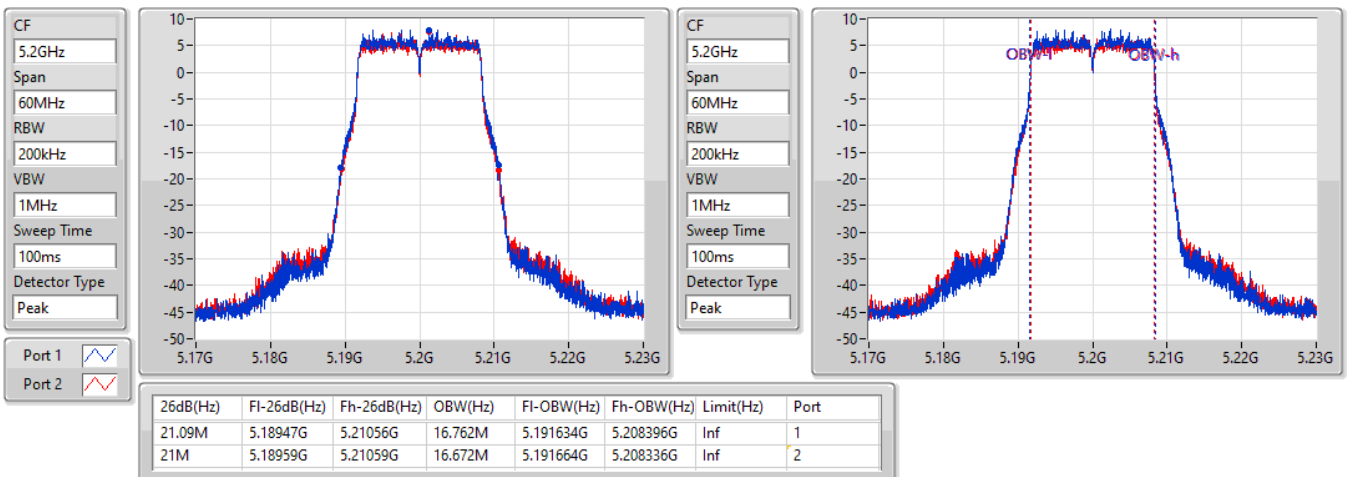
Port X-OBW = Port X 99% occupied bandwidth;

802.11a_Nss1,(6Mbps)_2TX
EBW
5180MHz

15/05/2021

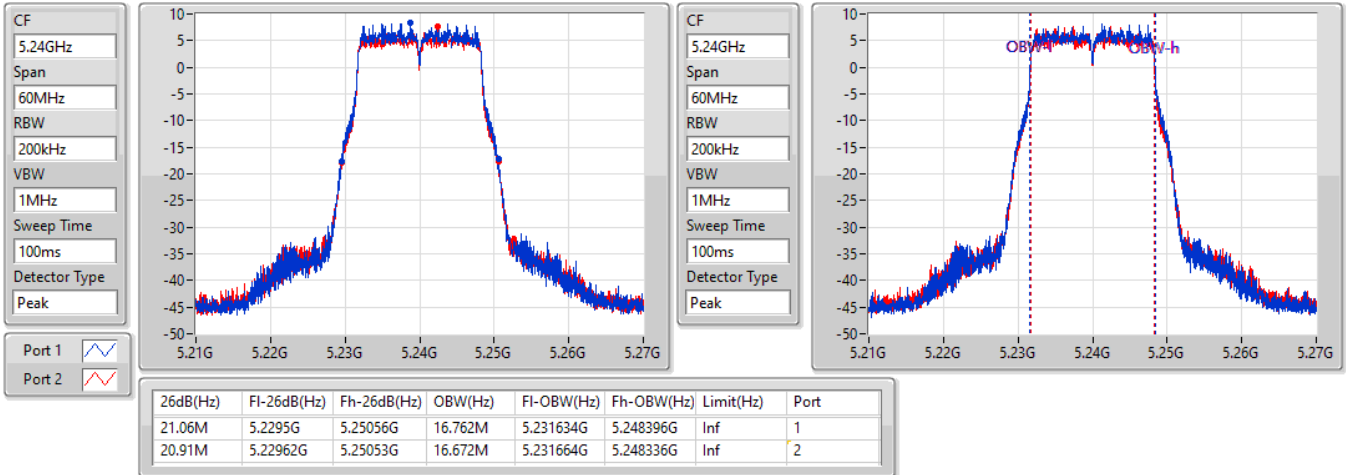

802.11a_Nss1,(6Mbps)_2TX
EBW
5200MHz

15/05/2021

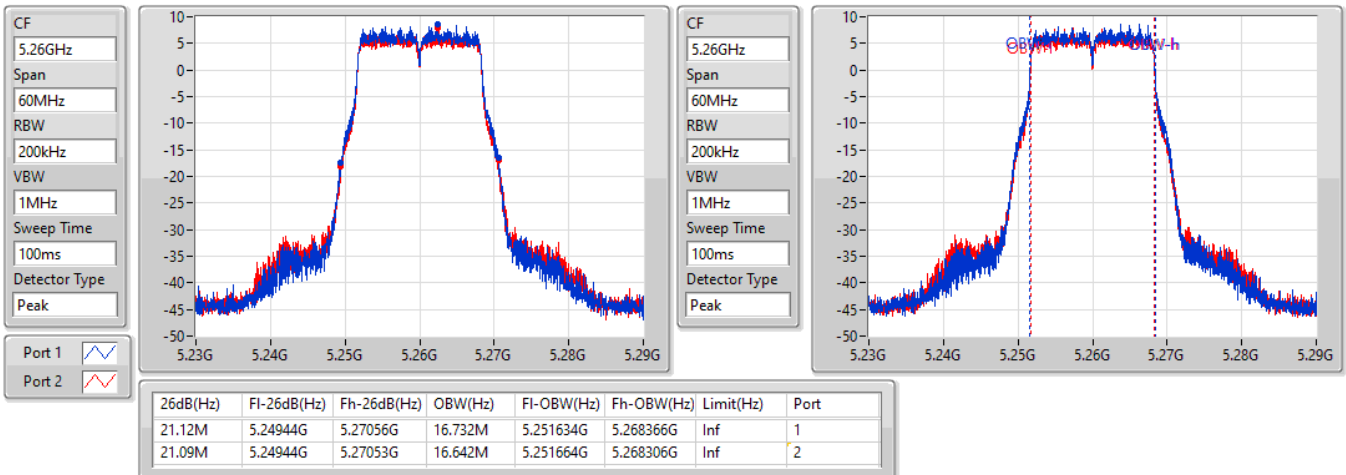


802.11a_Nss1,(6Mbps)_2TX
EBW
5240MHz

15/05/2021

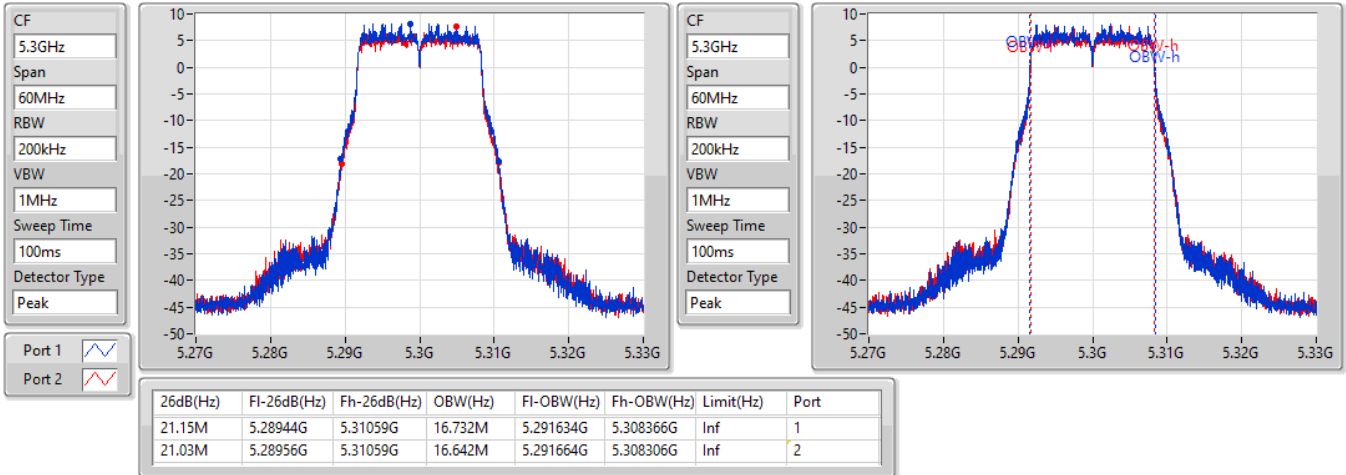

802.11a_Nss1,(6Mbps)_2TX
EBW
5260MHz

15/05/2021

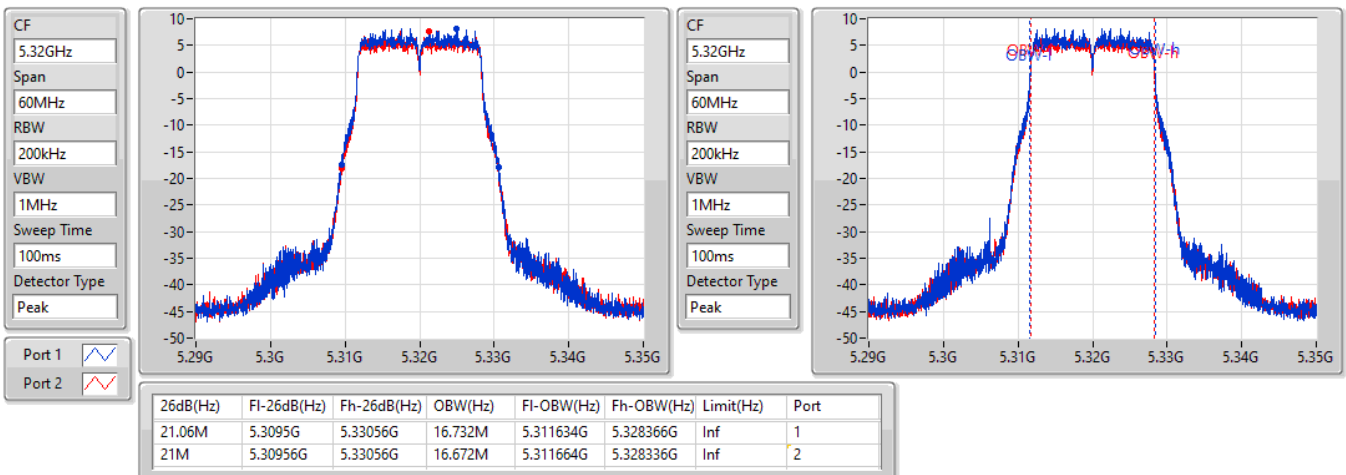


802.11a_Nss1,(6Mbps)_2TX
EBW
5300MHz

15/05/2021

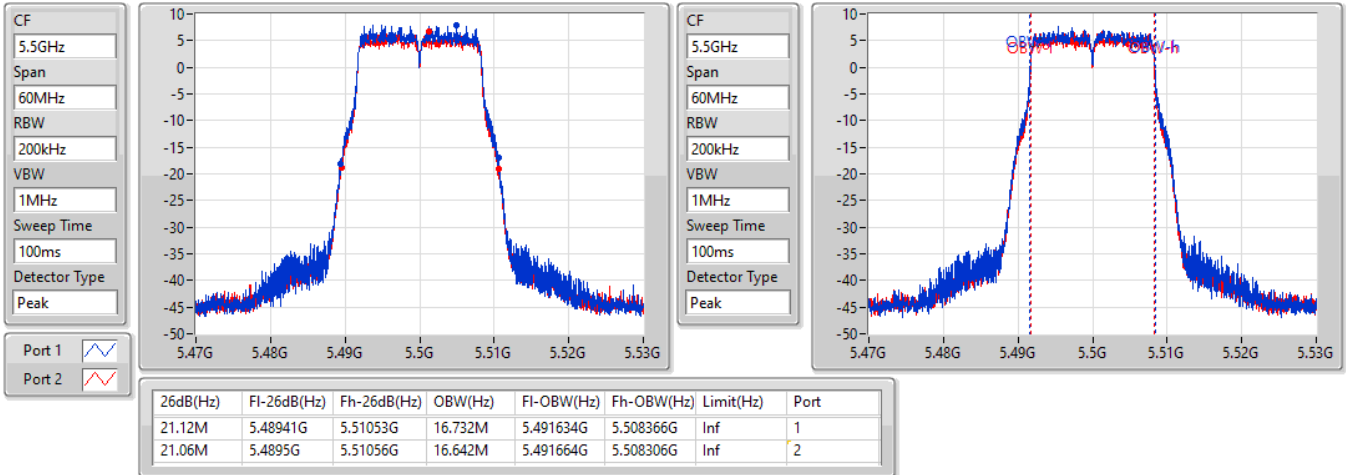

802.11a_Nss1,(6Mbps)_2TX
EBW
5320MHz

15/05/2021

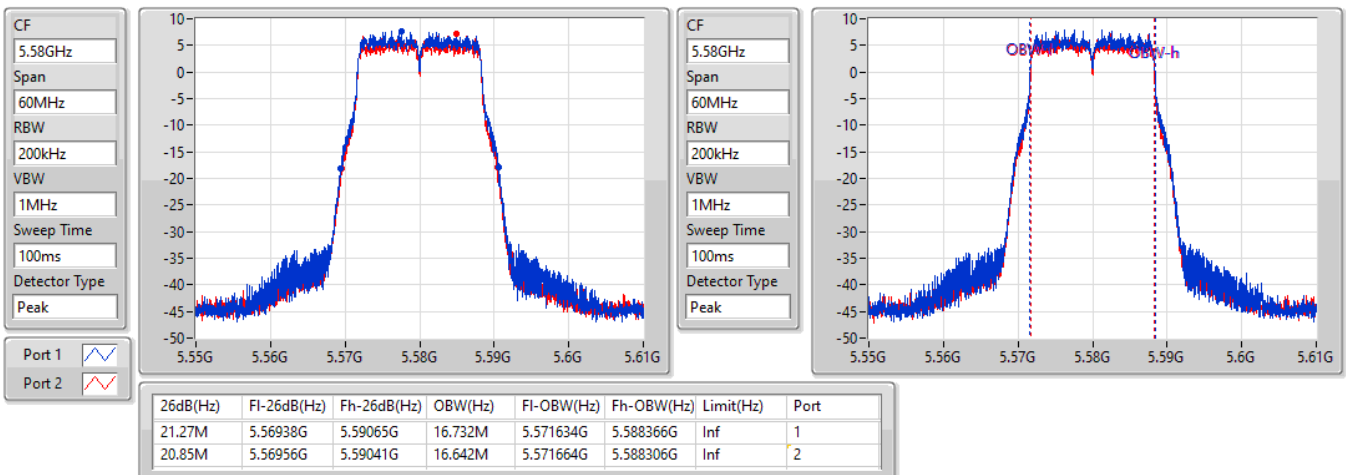


802.11a_Nss1,(6Mbps)_2TX
EBW
5500MHz

15/05/2021

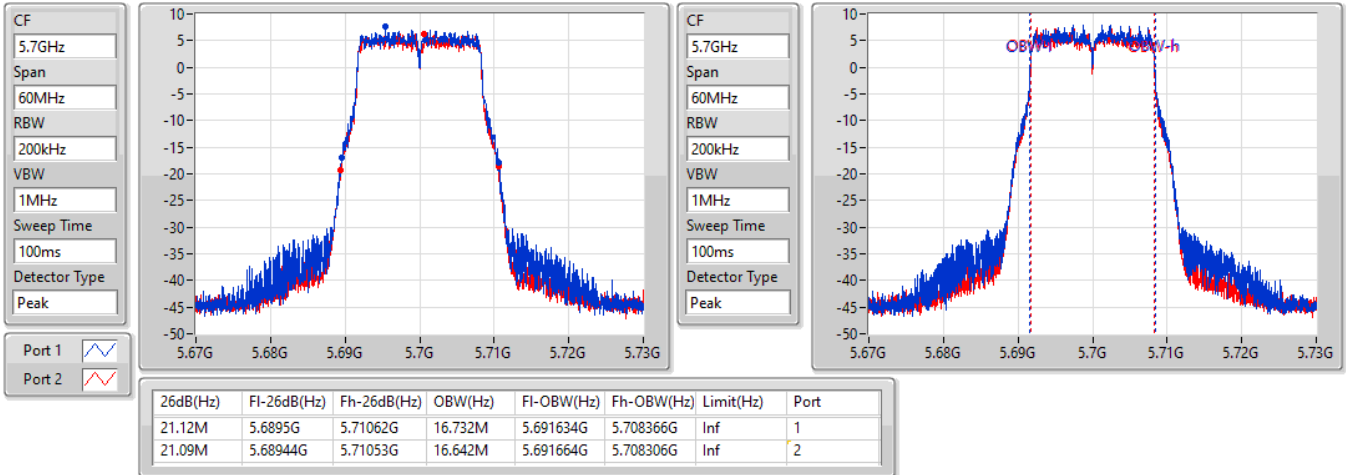

802.11a_Nss1,(6Mbps)_2TX
EBW
5580MHz

15/05/2021

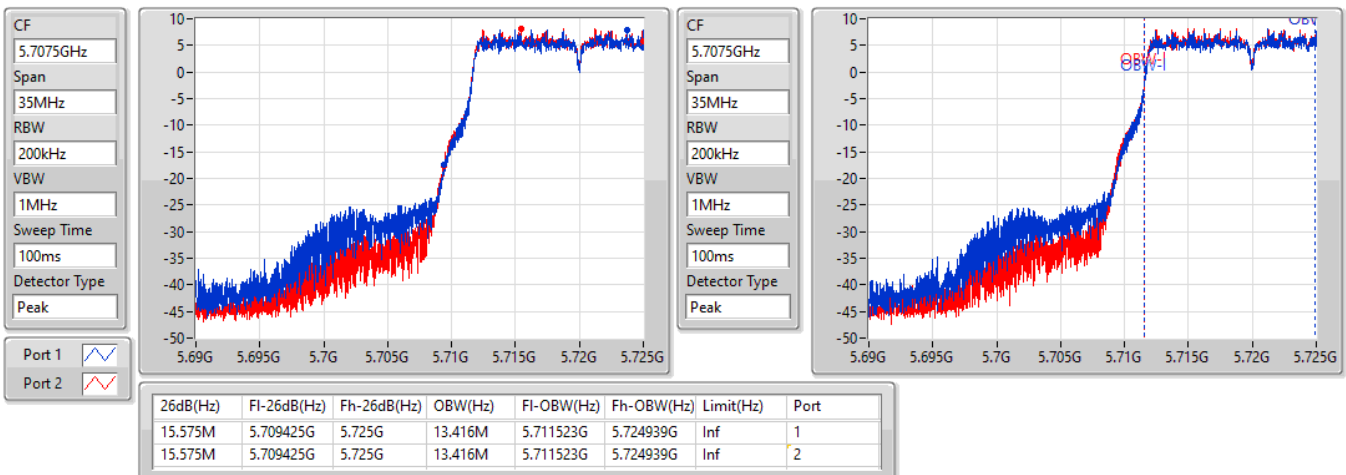


802.11a_Nss1,(6Mbps)_2TX
EBW
5700MHz

15/05/2021


802.11a_Nss1,(6Mbps)_2TX
EBW
5720MHz Straddle 5.47-5.725GHz

12/06/2021

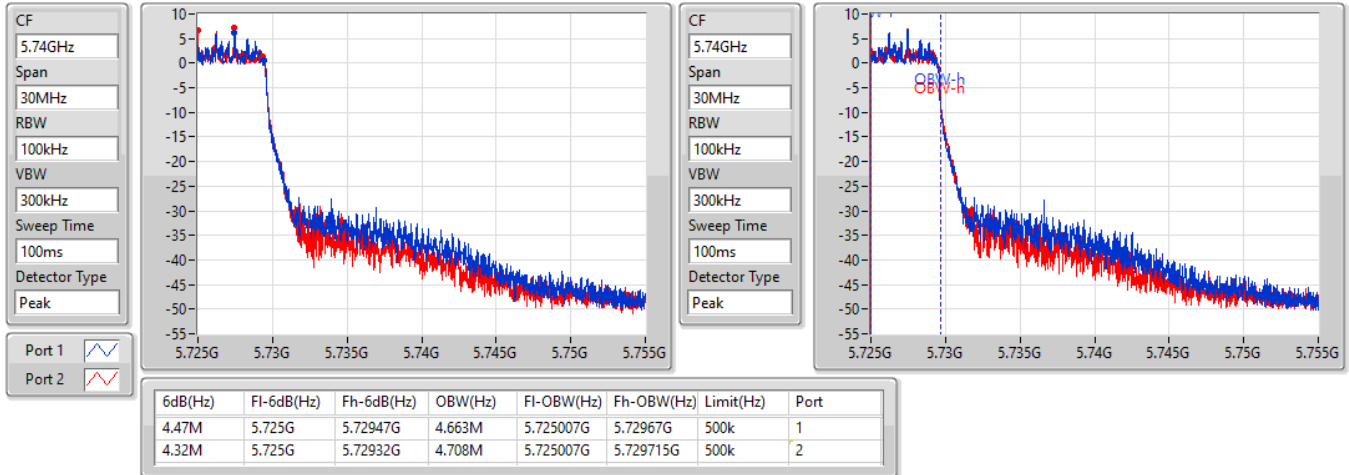


802.11a_Nss1,(6Mbps)_2TX

EBW

5720MHz Straddle 5.725-5.85GHz

12/06/2021

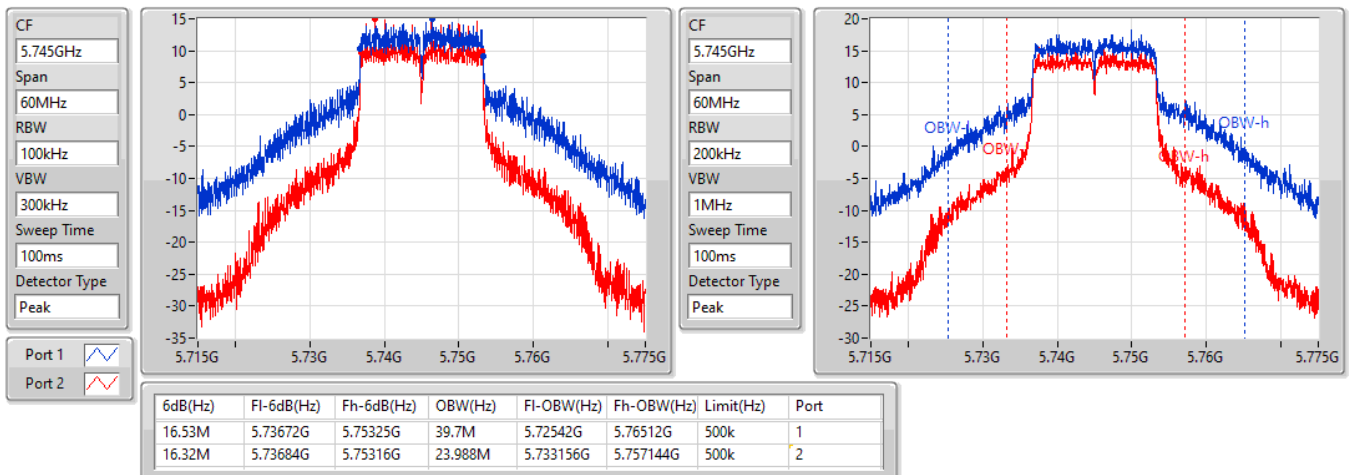


802.11a_Nss1,(6Mbps)_2TX

EBW

5745MHz

06/05/2021

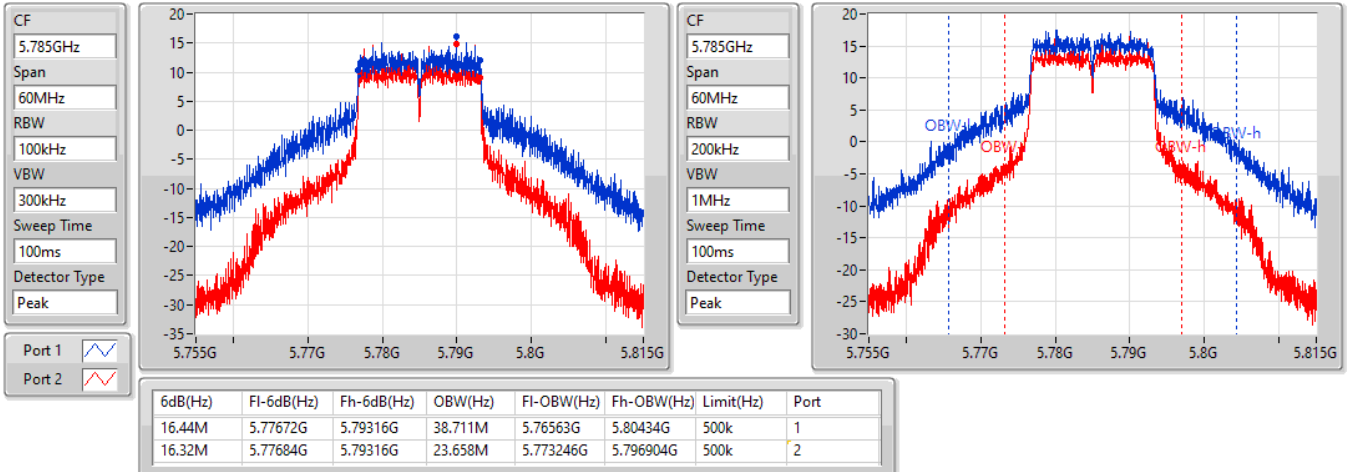


802.11a_Nss1,(6Mbps)_2TX

EBW

5785MHz

15/05/2021

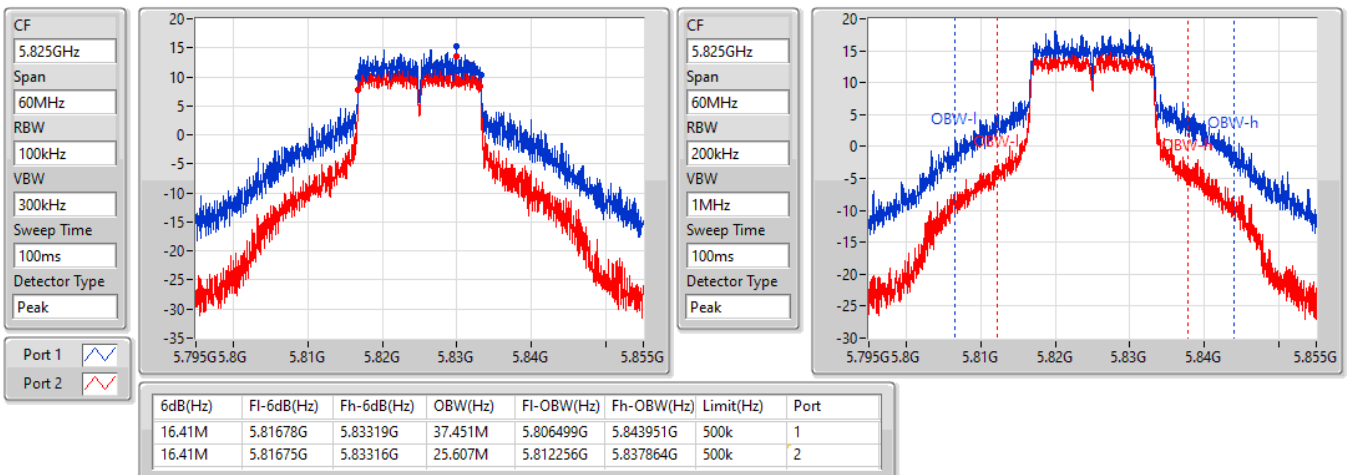


802.11a_Nss1,(6Mbps)_2TX

EBW

5825MHz

15/05/2021



**For Radio 3 / 2T2S
Summary**

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.15-5.25GHz	-	-	-	-	-
802.11ax HEW20_Nss2,(MCS0)_2TX	21.81M	19.04M	19M0D1D	21.3M	19.01M
802.11ax HEW40_Nss2,(MCS0)_2TX	40.08M	37.661M	37M7D1D	39.78M	37.541M
802.11ax HEW80_Nss2,(MCS0)_2TX	81.6M	77.001M	77M0D1D	81.12M	76.882M
802.11ax HEW160_Nss2,(MCS0)_2TX	82.08M	78.081M	78M1D1D	81.84M	77.601M
5.25-5.35GHz	-	-	-	-	-
802.11ax HEW20_Nss2,(MCS0)_2TX	21.69M	19.04M	19M0D1D	21.3M	19.01M
802.11ax HEW40_Nss2,(MCS0)_2TX	40.14M	37.601M	37M6D1D	39.78M	37.541M
802.11ax HEW80_Nss2,(MCS0)_2TX	81.24M	77.121M	77M1D1D	81.24M	77.001M
802.11ax HEW160_Nss2,(MCS0)_2TX	83.28M	77.721M	77M7D1D	83.16M	77.481M
5.47-5.725GHz	-	-	-	-	-
802.11ax HEW20_Nss2,(MCS0)_2TX	21.6M	19.04M	19M0D1D	15.575M	14.483M
802.11ax HEW40_Nss2,(MCS0)_2TX	40.08M	37.601M	37M6D1D	34.875M	33.658M
802.11ax HEW80_Nss2,(MCS0)_2TX	81.48M	77.121M	77M1D1D	75.408M	73.046M
802.11ax HEW160_Nss2,(MCS0)_2TX	164.88M	155.442M	155MD1D	164.88M	154.963M
5.725-5.85GHz	-	-	-	-	-
802.11ax HEW20_Nss2,(MCS0)_2TX	18.81M	39.88M	39M9D1D	4.365M	4.663M
802.11ax HEW40_Nss2,(MCS0)_2TX	37.56M	61.229M	61M2D1D	3.675M	4.033M
802.11ax HEW80_Nss2,(MCS0)_2TX	75.36M	77.961M	78M0D1D	3.735M	4.123M

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)
802.11ax HEW20_Nss2,(MCS0)_2TX	-	-	-	-	-	-
5180MHz	Pass	Inf	21.54M	19.01M	21.33M	19.04M
5200MHz	Pass	Inf	21.48M	19.04M	21.3M	19.04M
5240MHz	Pass	Inf	21.81M	19.01M	21.33M	19.04M
5260MHz	Pass	Inf	21.6M	19.04M	21.42M	19.04M
5300MHz	Pass	Inf	21.6M	19.04M	21.3M	19.01M
5320MHz	Pass	Inf	21.69M	19.01M	21.33M	19.04M
5500MHz	Pass	Inf	21.57M	19.01M	21.33M	19.01M
5580MHz	Pass	Inf	21.51M	19.04M	21.42M	19.01M
5700MHz	Pass	Inf	21.6M	19.04M	21.36M	19.01M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	15.908M	14.535M	15.575M	14.483M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	4.455M	4.663M	4.365M	4.708M
5745MHz	Pass	500k	18.51M	36.732M	18.42M	24.558M
5785MHz	Pass	500k	18.57M	36.342M	18.36M	23.928M
5825MHz	Pass	500k	18.81M	39.88M	18M	26.567M
802.11ax HEW40_Nss2,(MCS0)_2TX	-	-	-	-	-	-
5190MHz	Pass	Inf	40.08M	37.601M	39.78M	37.541M
5230MHz	Pass	Inf	40.08M	37.661M	39.78M	37.541M
5270MHz	Pass	Inf	40.14M	37.601M	39.84M	37.541M
5310MHz	Pass	Inf	40.08M	37.601M	39.78M	37.541M
5510MHz	Pass	Inf	40.08M	37.601M	39.96M	37.541M
5550MHz	Pass	Inf	40.08M	37.601M	39.78M	37.541M
5670MHz	Pass	Inf	40.08M	37.601M	39.72M	37.601M
5710MHz Straddle 5.47-5.725GHz	Pass	Inf	35.025M	33.733M	34.875M	33.658M
5710MHz Straddle 5.725-5.85GHz	Pass	500k	3.735M	4.123M	3.675M	4.033M
5755MHz	Pass	500k	37.56M	52.714M	37.08M	38.621M
5795MHz	Pass	500k	37.56M	61.229M	37.5M	46.177M
802.11ax HEW80_Nss2,(MCS0)_2TX	-	-	-	-	-	-
5210MHz	Pass	Inf	81.12M	76.882M	81.6M	77.001M
5290MHz	Pass	Inf	81.24M	77.001M	81.24M	77.121M
5530MHz	Pass	Inf	81.36M	77.121M	81.36M	77.001M
5610MHz	Pass	Inf	81.48M	77.121M	81.48M	77.001M
5690MHz Straddle 5.47-5.725GHz	Pass	Inf	75.408M	73.046M	75.795M	73.201M
5690MHz Straddle 5.725-5.85GHz	Pass	500k	3.765M	4.183M	3.735M	4.123M
5775MHz	Pass	500k	75.36M	77.961M	75.36M	77.481M
802.11ax HEW160_Nss2,(MCS0)_2TX	-	-	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	Inf	82.08M	78.081M	81.84M	77.601M
5250MHz Straddle 5.25-5.35GHz	Pass	Inf	83.16M	77.481M	83.28M	77.721M
5570MHz	Pass	Inf	164.88M	155.442M	164.88M	154.963M

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

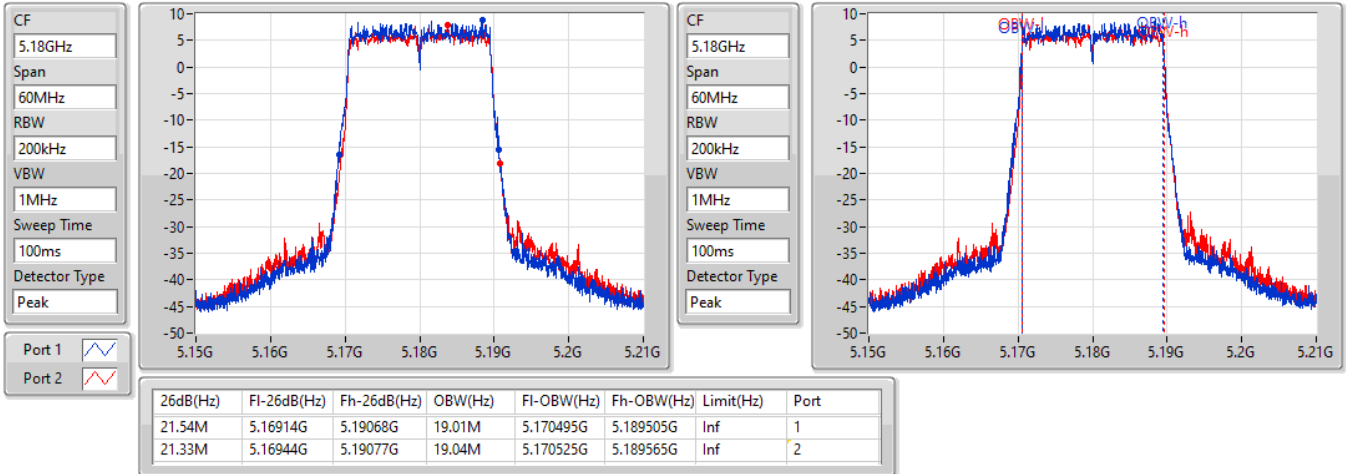
Port X-OBW = Port X 99% occupied bandwidth;

802.11ax HEW20_Nss2,(MCS0)_2TX

EBW

5180MHz

15/05/2021

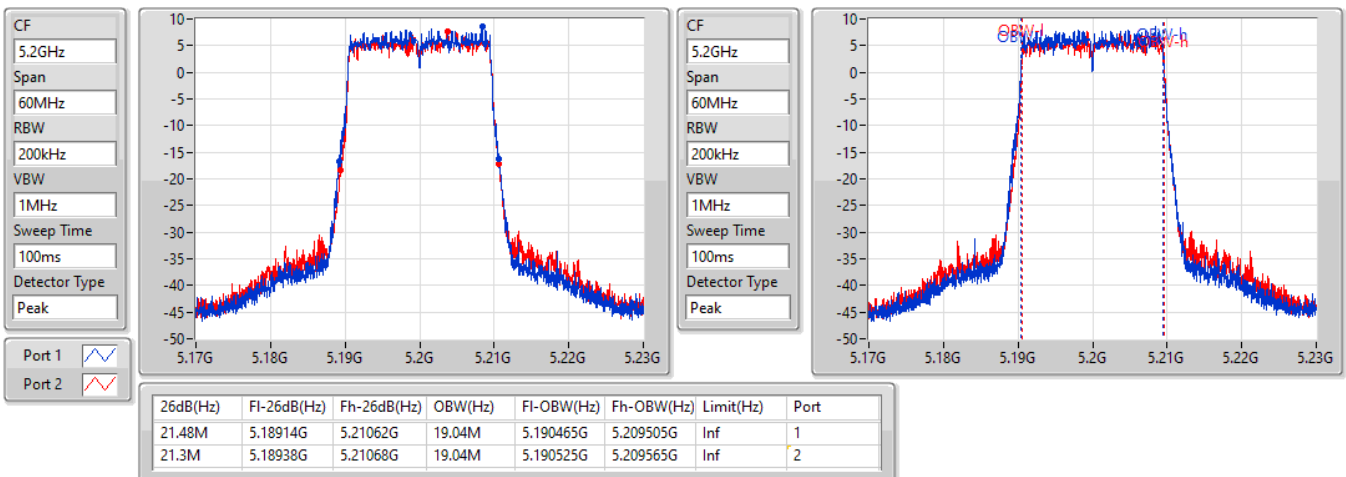


802.11ax HEW20_Nss2,(MCS0)_2TX

EBW

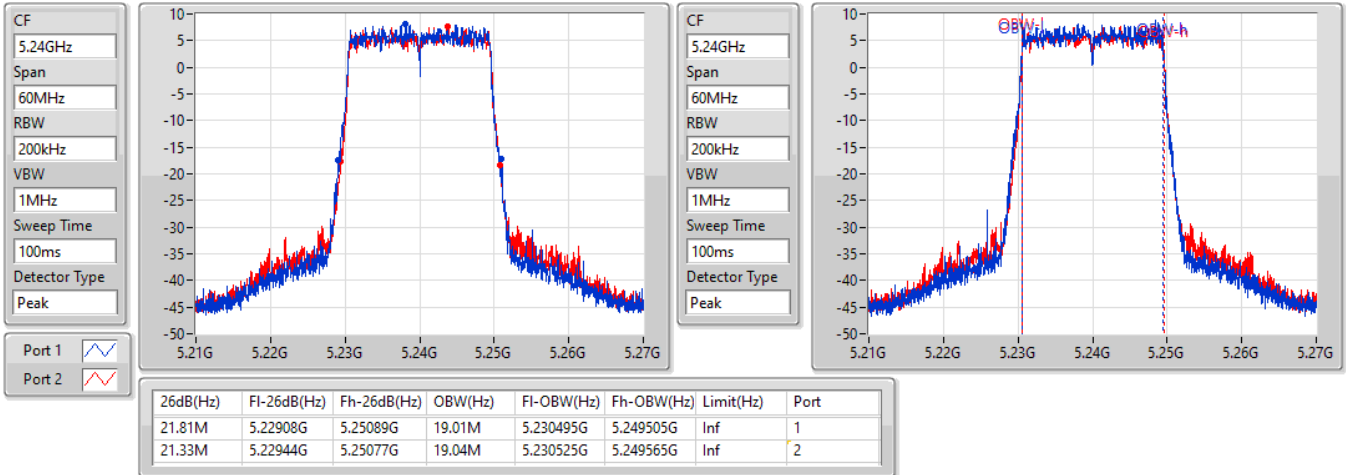
5200MHz

15/05/2021

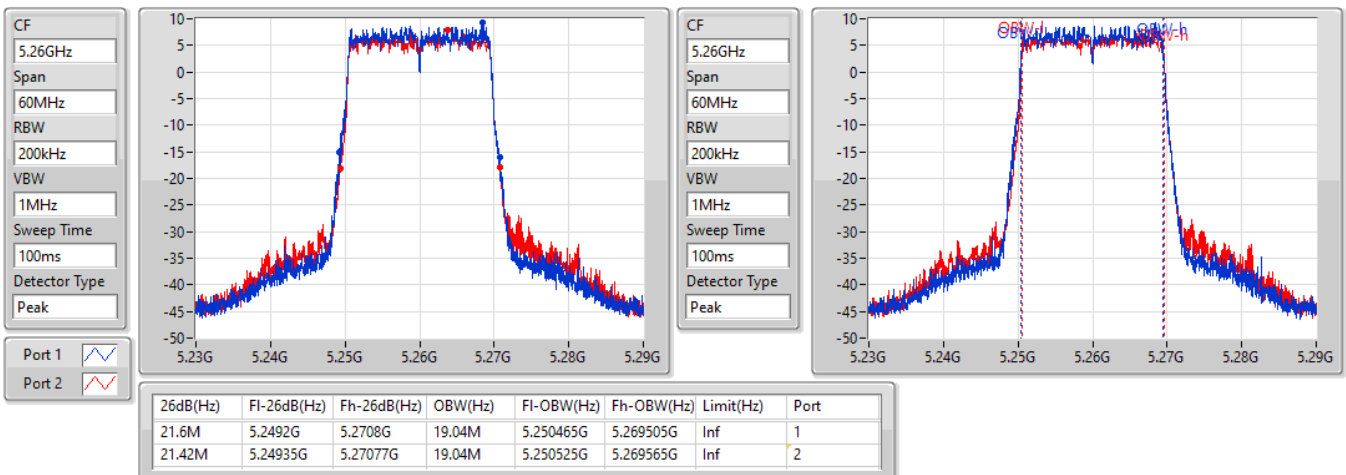


802.11ax HEW20_Nss2,(MCS0)_2TX
EBW
5240MHz

15/05/2021

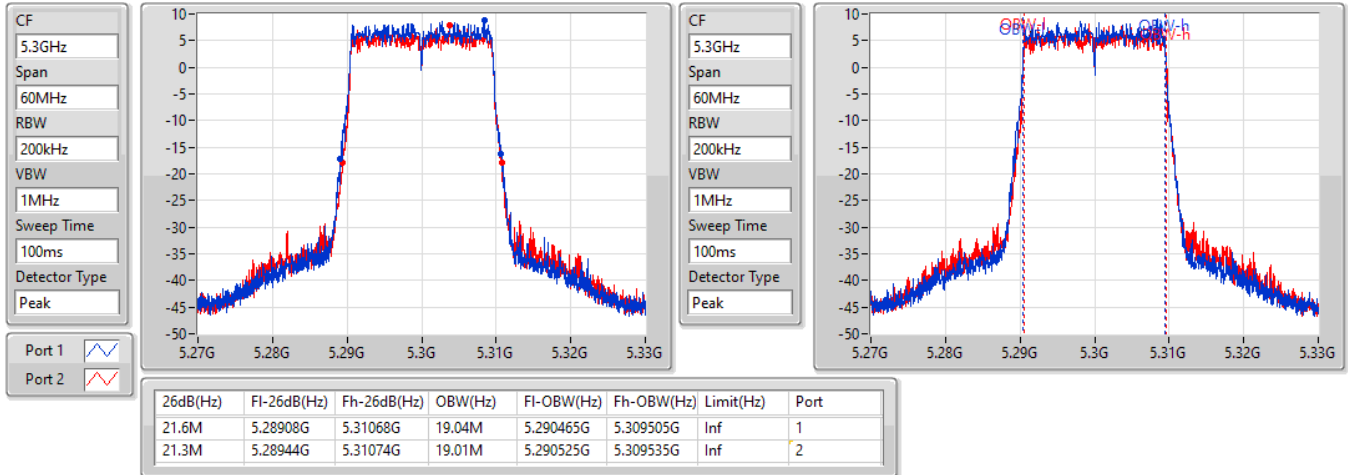

802.11ax HEW20_Nss2,(MCS0)_2TX
EBW
5260MHz

15/05/2021

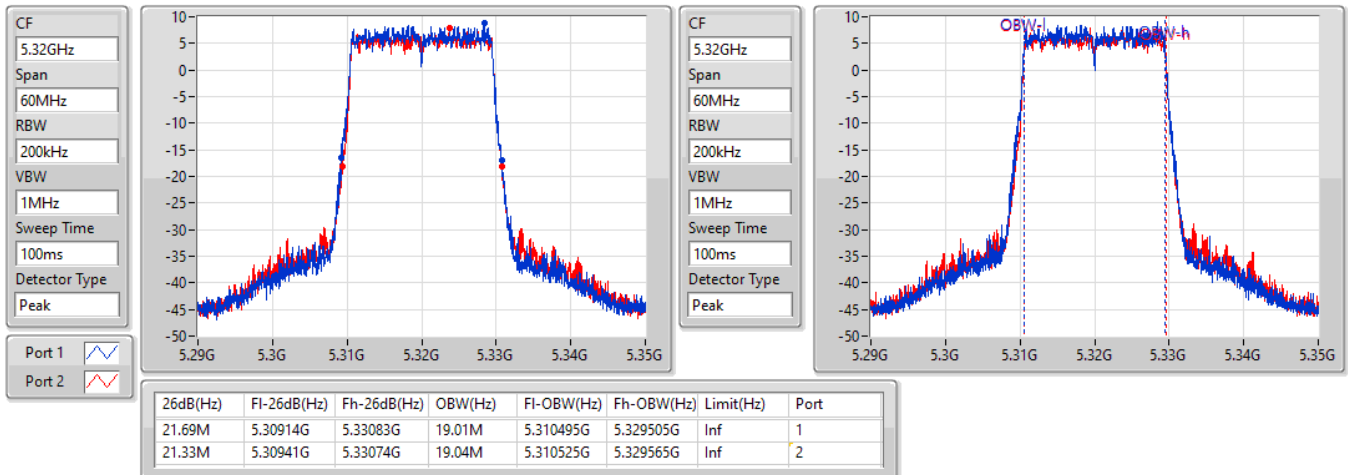


802.11ax HEW20_Nss2,(MCS0)_2TX
EBW
5300MHz

15/05/2021

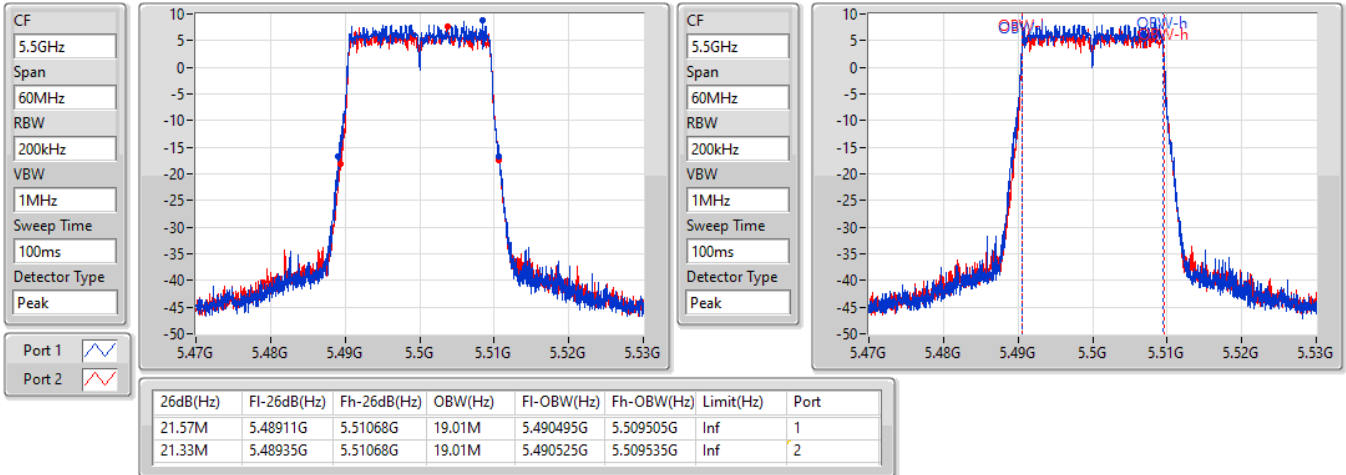

802.11ax HEW20_Nss2,(MCS0)_2TX
EBW
5320MHz

15/05/2021

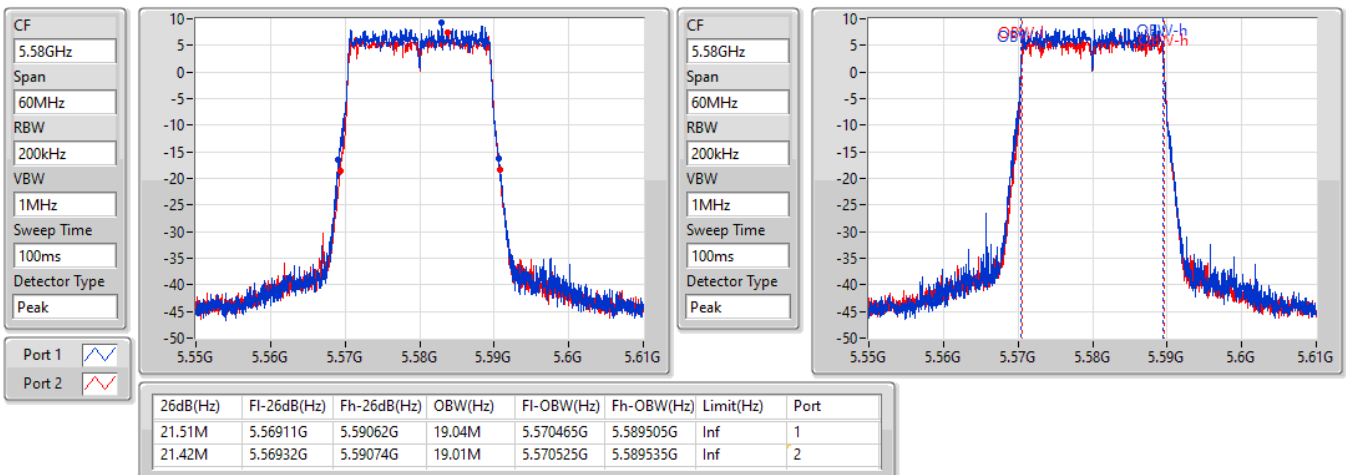


802.11ax HEW20_Nss2,(MCS0)_2TX
EBW
5500MHz

15/05/2021

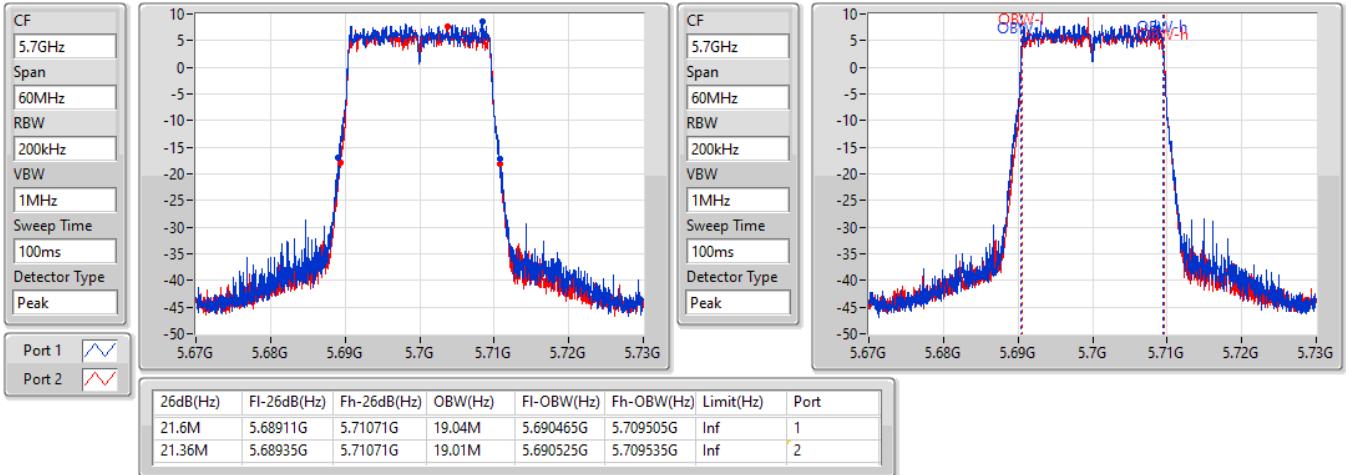

802.11ax HEW20_Nss2,(MCS0)_2TX
EBW
5580MHz

15/05/2021

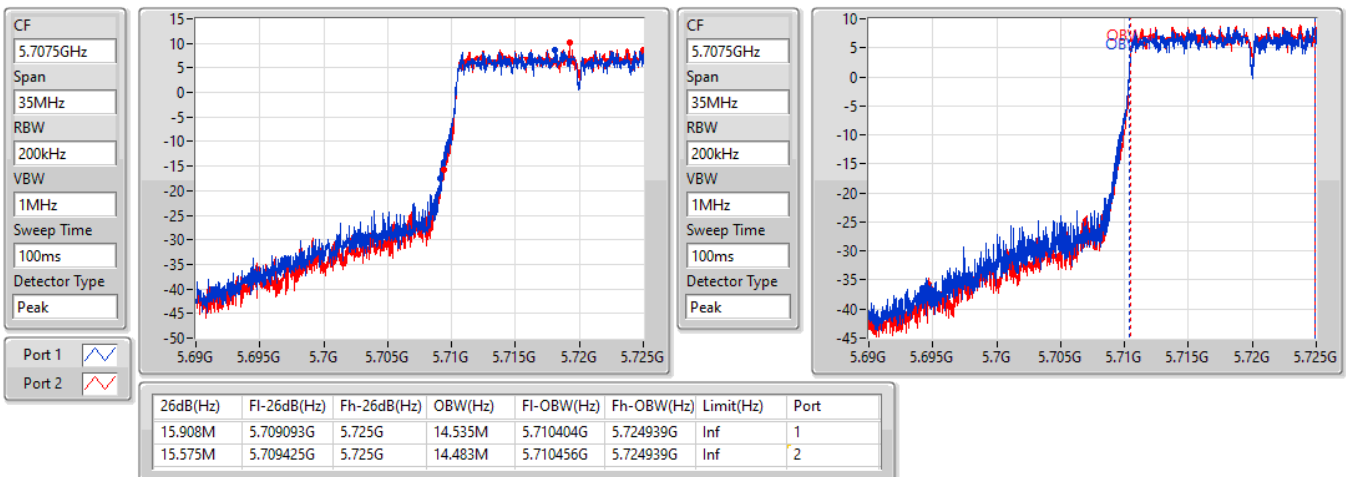


802.11ax HEW20_Nss2,(MCS0)_2TX
EBW
5700MHz

15/05/2021


802.11ax HEW20_Nss2,(MCS0)_2TX
EBW
5720MHz Straddle 5.47-5.725GHz

12/06/2021

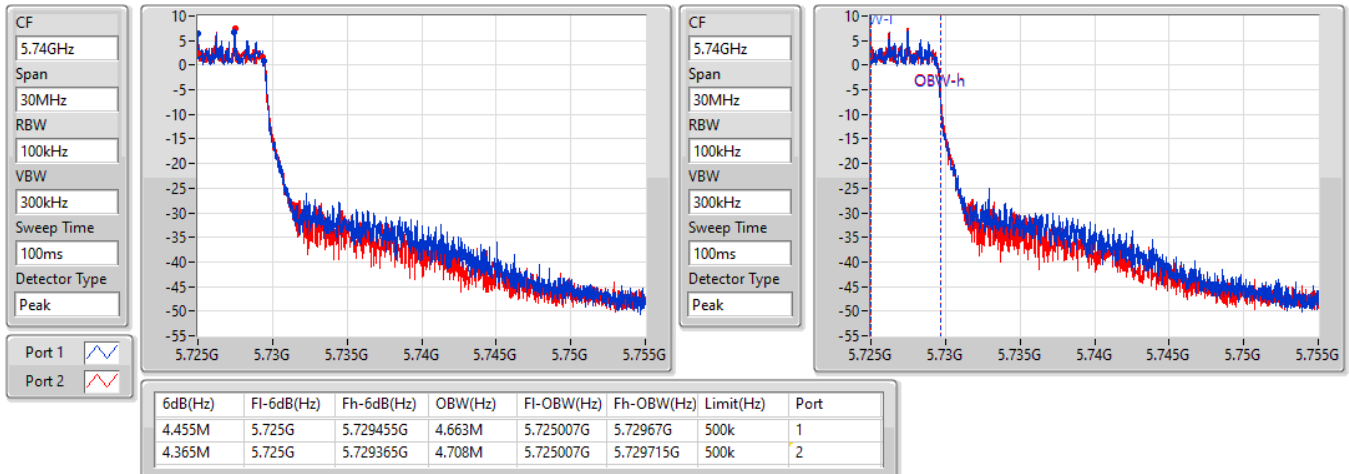


802.11ax HEW20_Nss2,(MCS0)_2TX

EBW

5720MHz Straddle 5.725-5.85GHz

12/06/2021

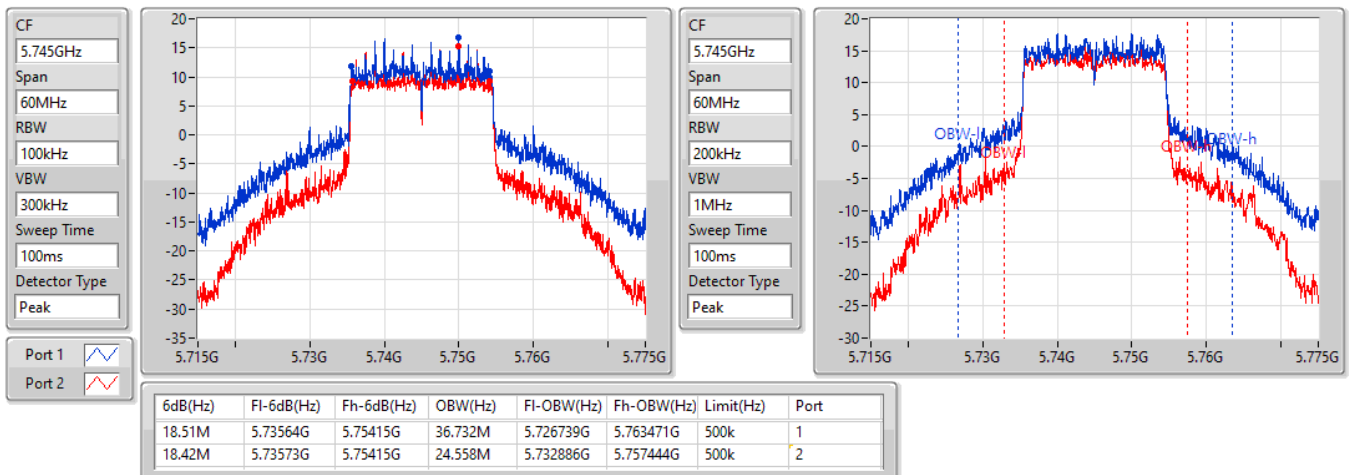


802.11ax HEW20_Nss2,(MCS0)_2TX

EBW

5745MHz

06/05/2021

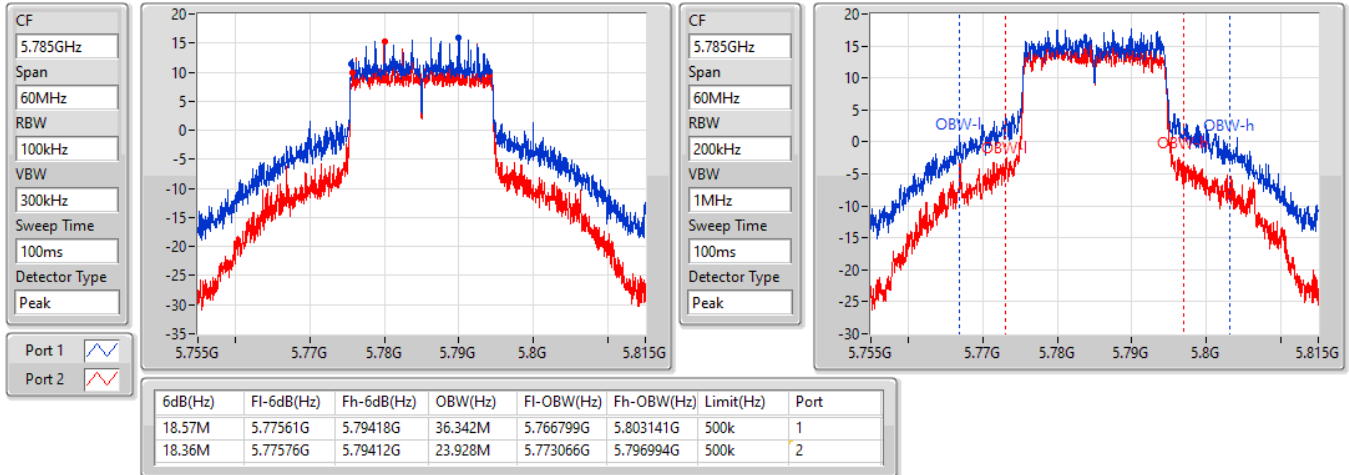


802.11ax HEW20_Nss2,(MCS0)_2TX

EBW

5785MHz

15/05/2021

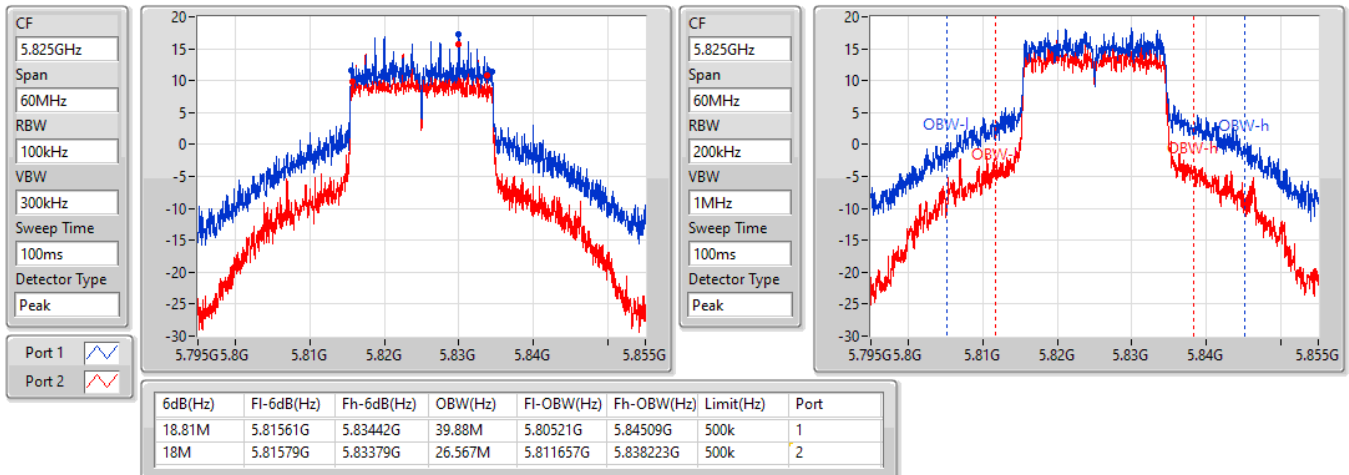


802.11ax HEW20_Nss2,(MCS0)_2TX

EBW

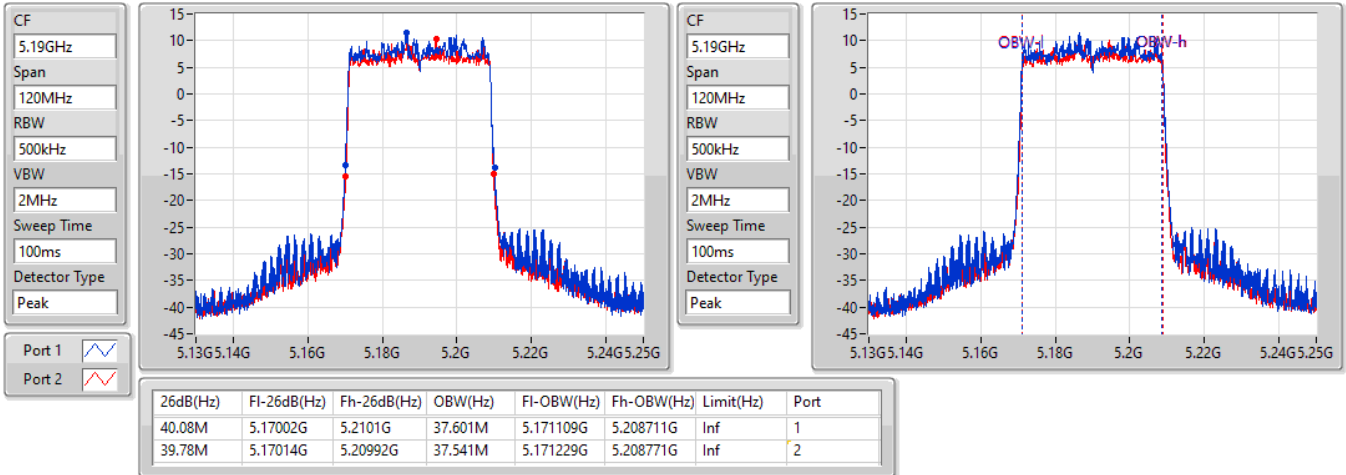
5825MHz

15/05/2021

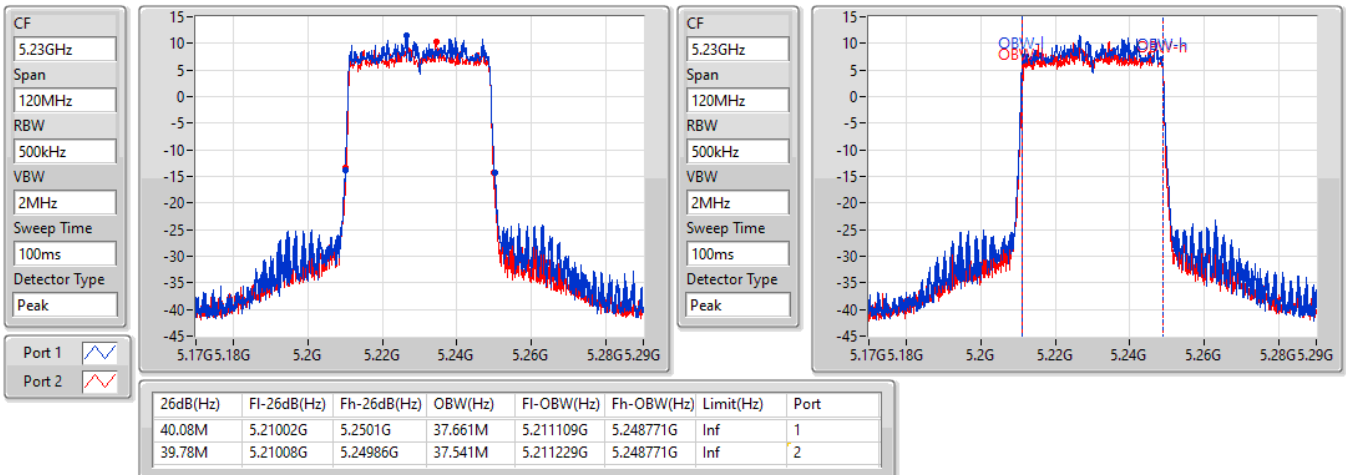


802.11ax HEW40_Nss2,(MCS0)_2TX
EBW
5190MHz

15/05/2021

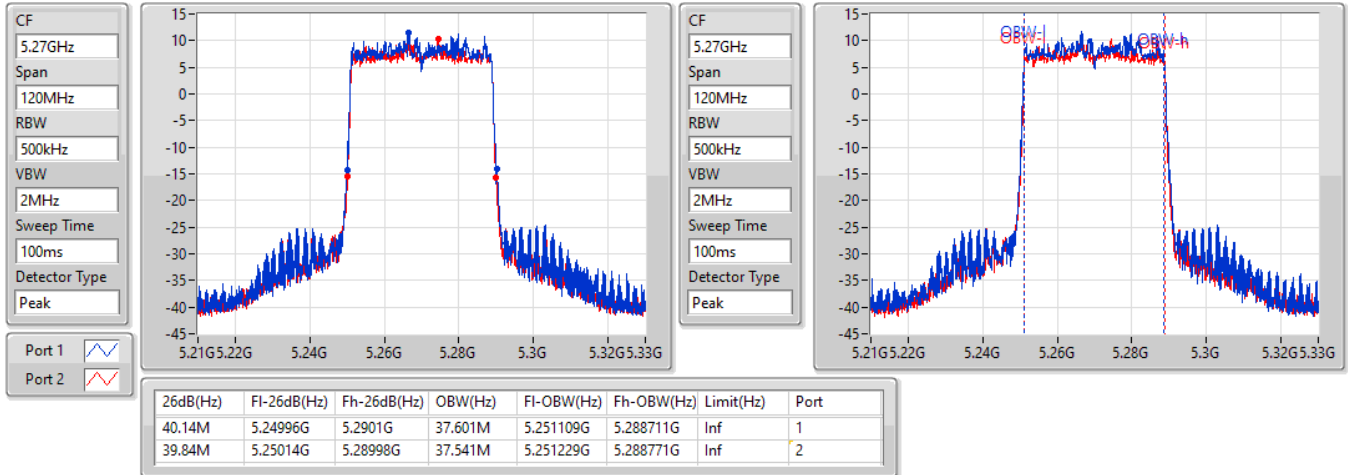

802.11ax HEW40_Nss2,(MCS0)_2TX
EBW
5230MHz

15/05/2021

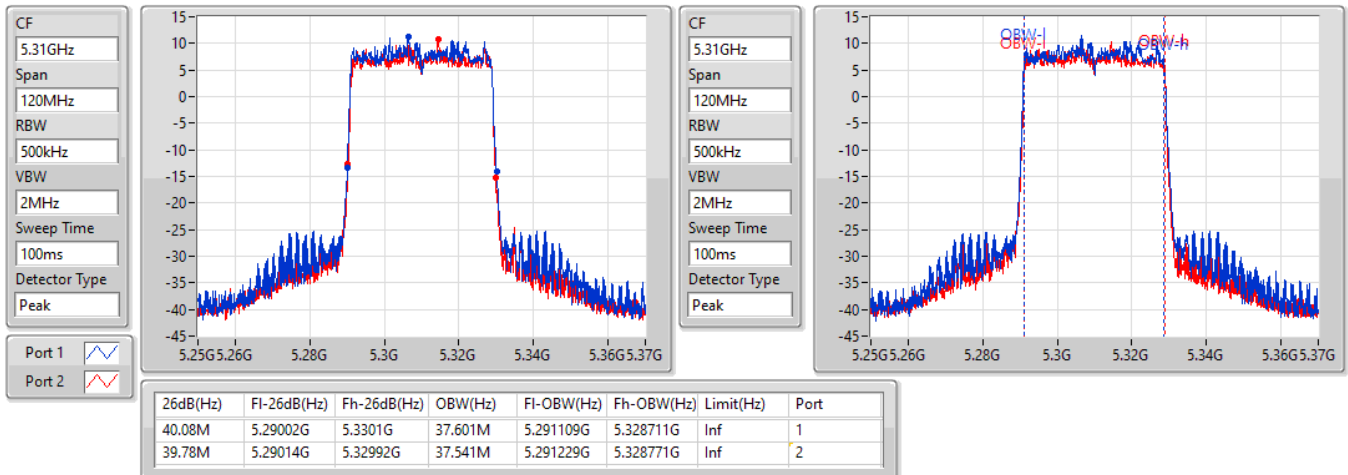


802.11ax HEW40_Nss2,(MCS0)_2TX
EBW
5270MHz

15/05/2021

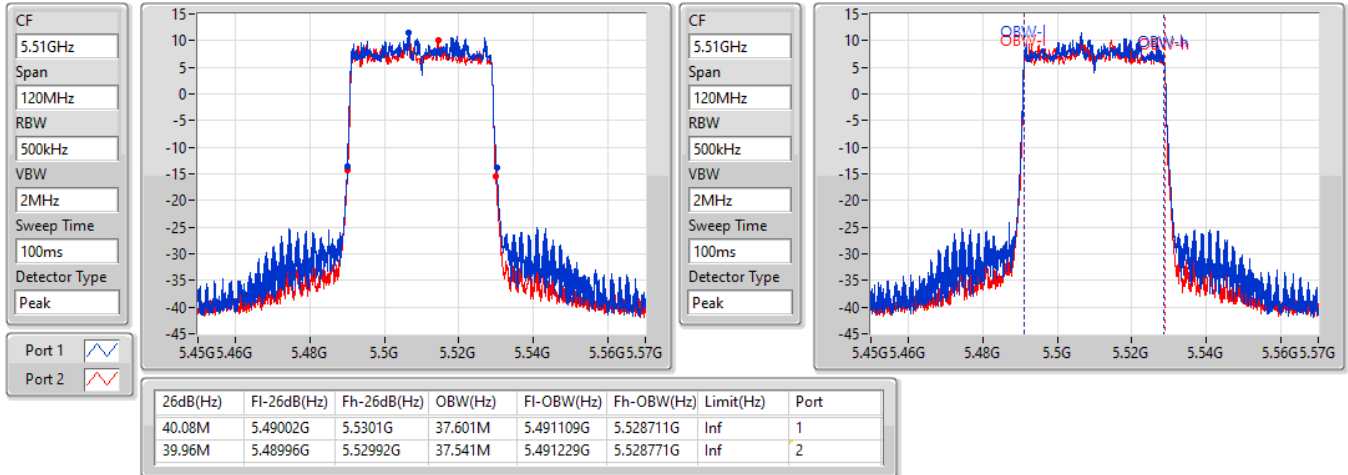

802.11ax HEW40_Nss2,(MCS0)_2TX
EBW
5310MHz

15/05/2021

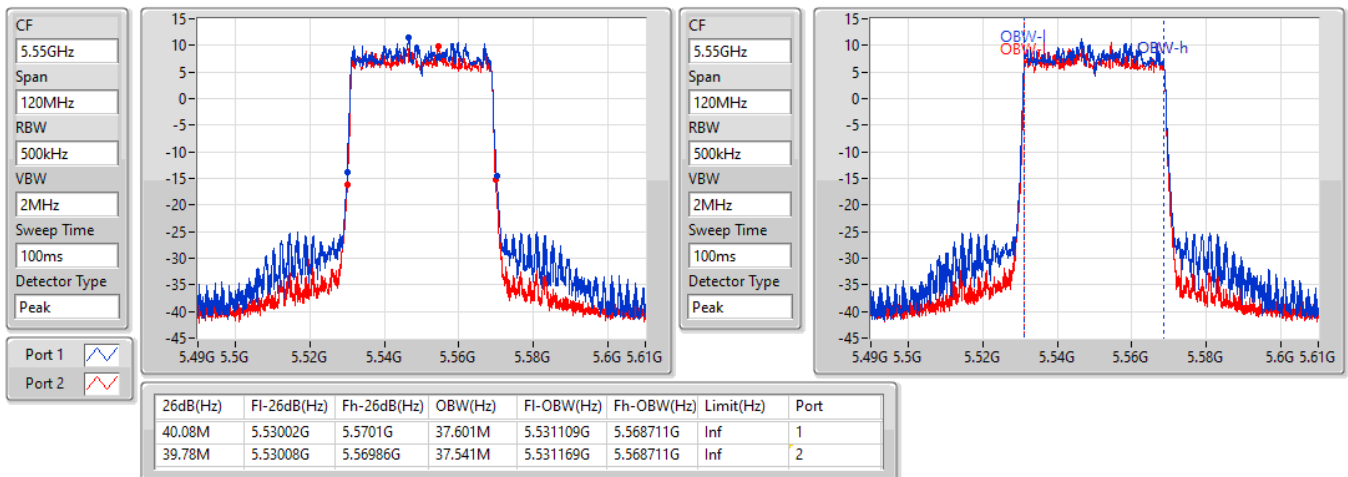


802.11ax HEW40_Nss2,(MCS0)_2TX
EBW
5510MHz

15/05/2021


802.11ax HEW40_Nss2,(MCS0)_2TX
EBW
5550MHz

15/05/2021

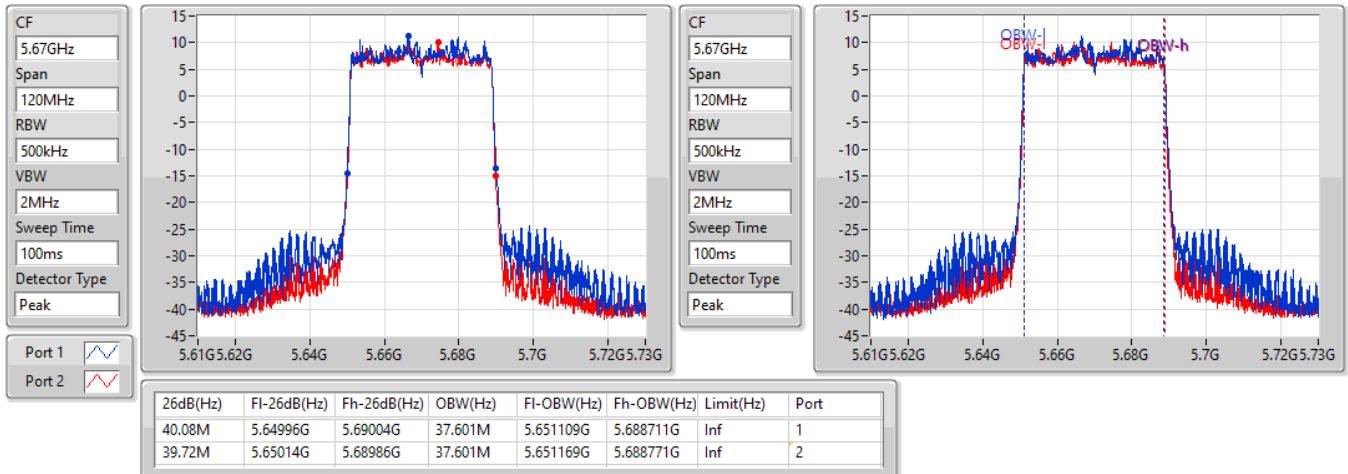


802.11ax HEW40_Nss2,(MCS0)_2TX

EBW

5670MHz

15/05/2021

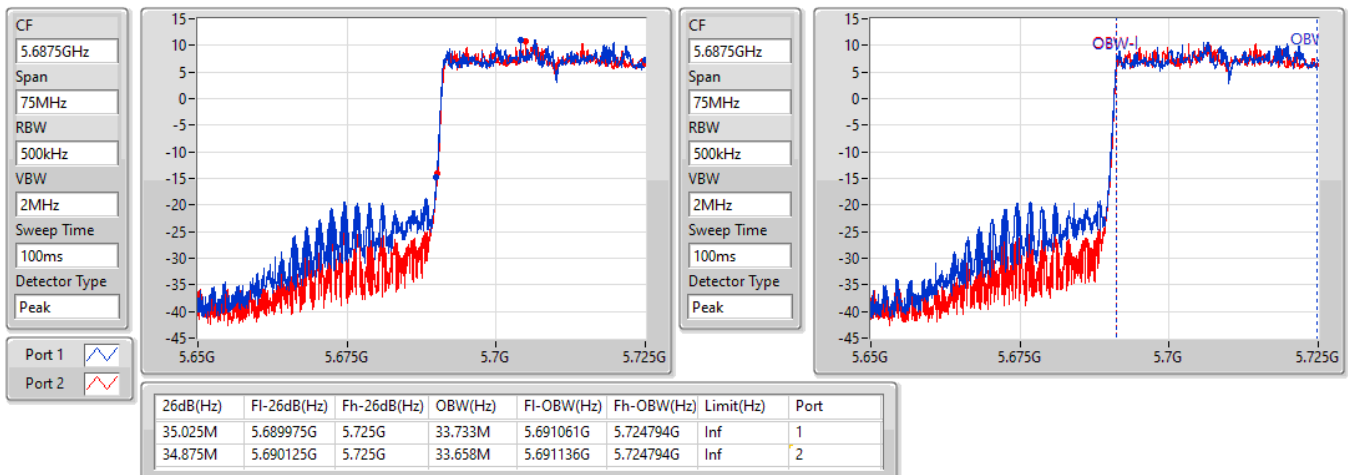


802.11ax HEW40_Nss2,(MCS0)_2TX

EBW

5710MHz Straddle 5.47-5.725GHz

12/06/2021

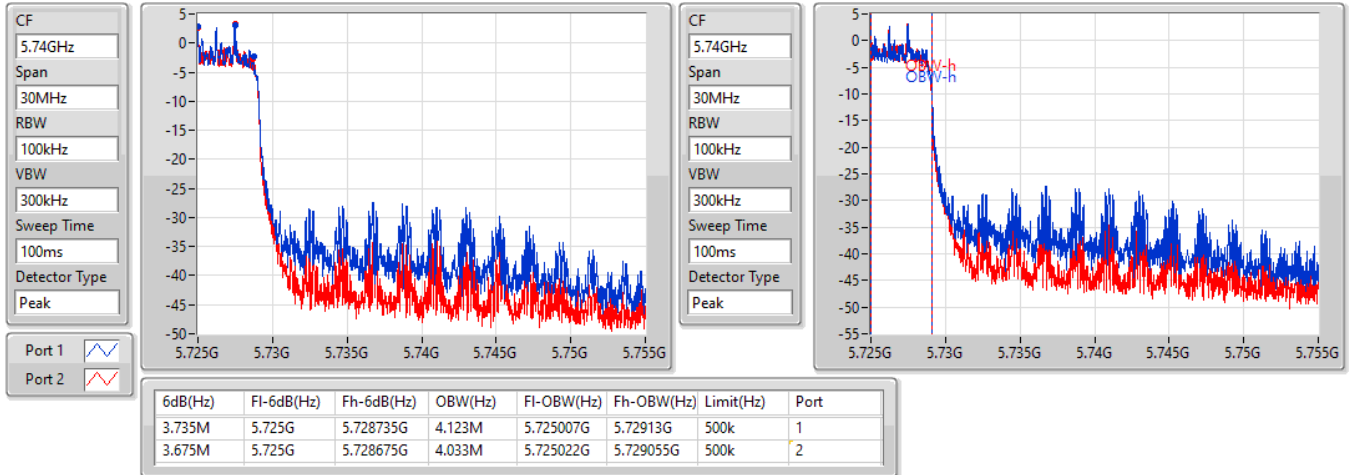


802.11ax HEW40_Nss2,(MCS0)_2TX

EBW

5710MHz Straddle 5.725-5.85GHz

12/06/2021

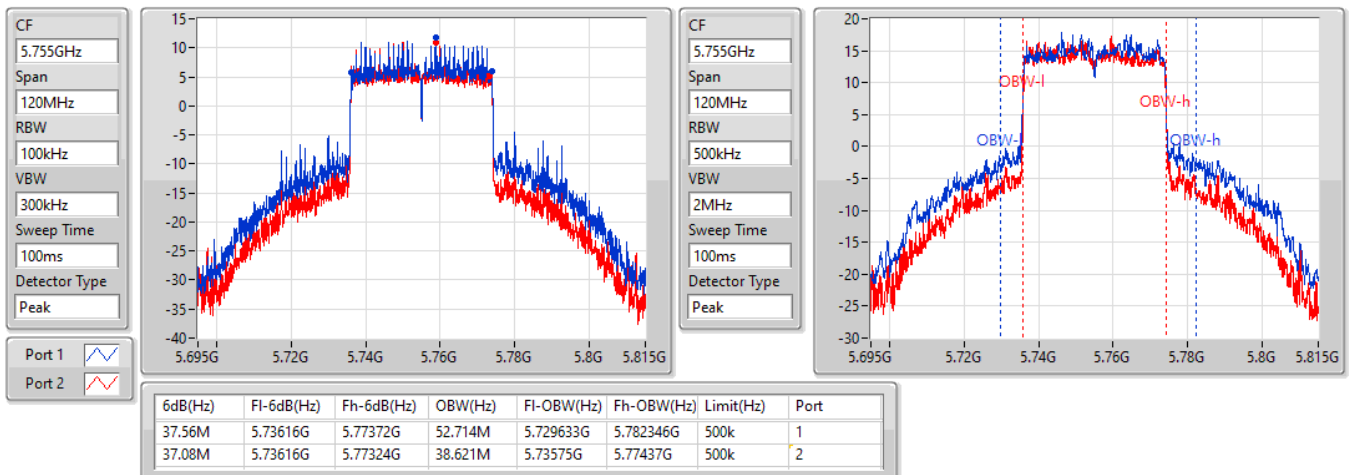


802.11ax HEW40_Nss2,(MCS0)_2TX

EBW

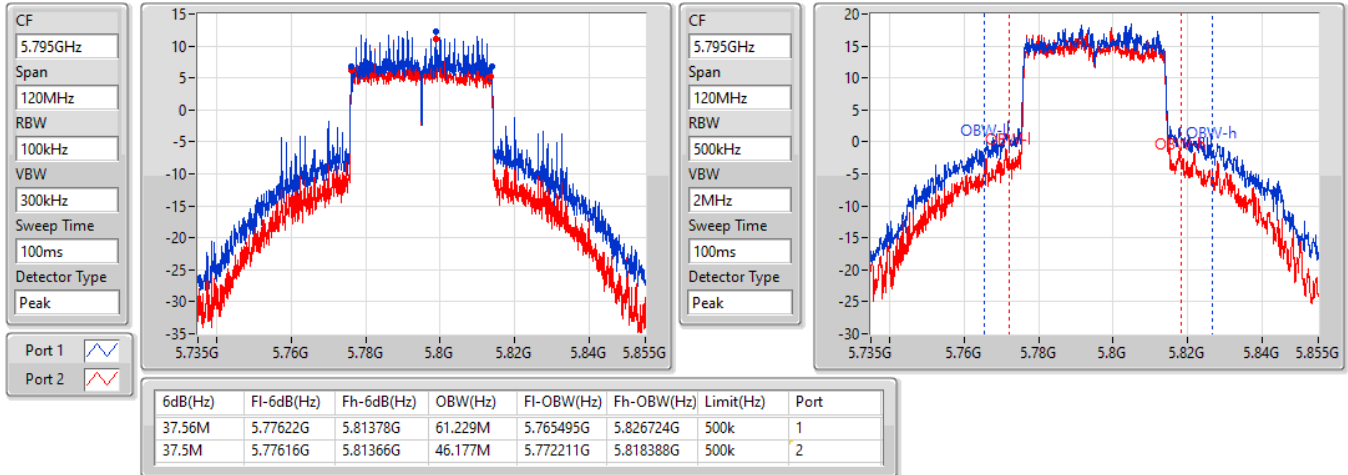
5755MHz

06/05/2021

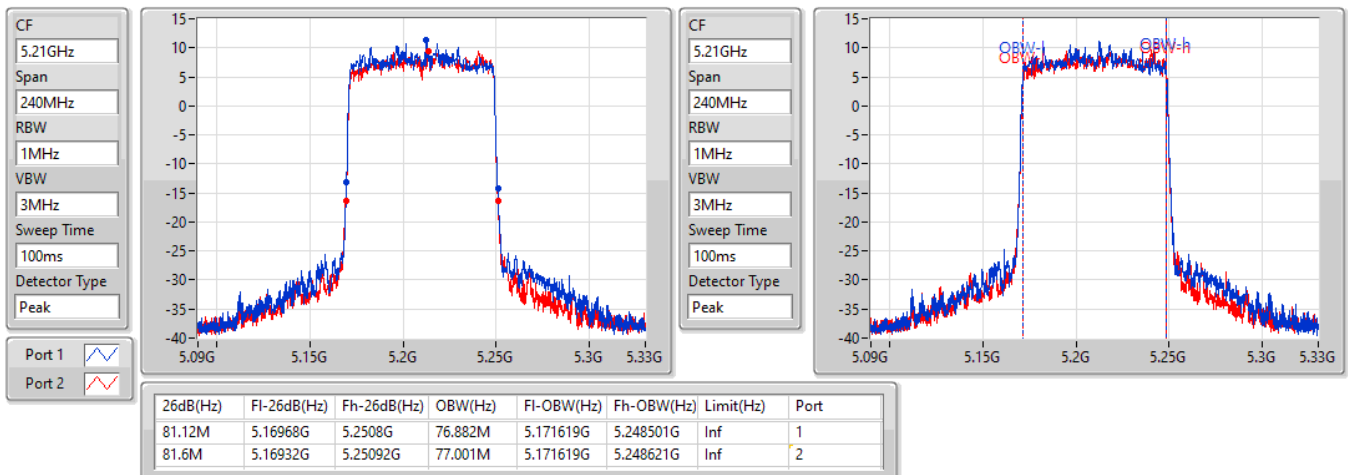


802.11ax HEW40_Nss2,(MCS0)_2TX
EBW
5795MHz

06/05/2021

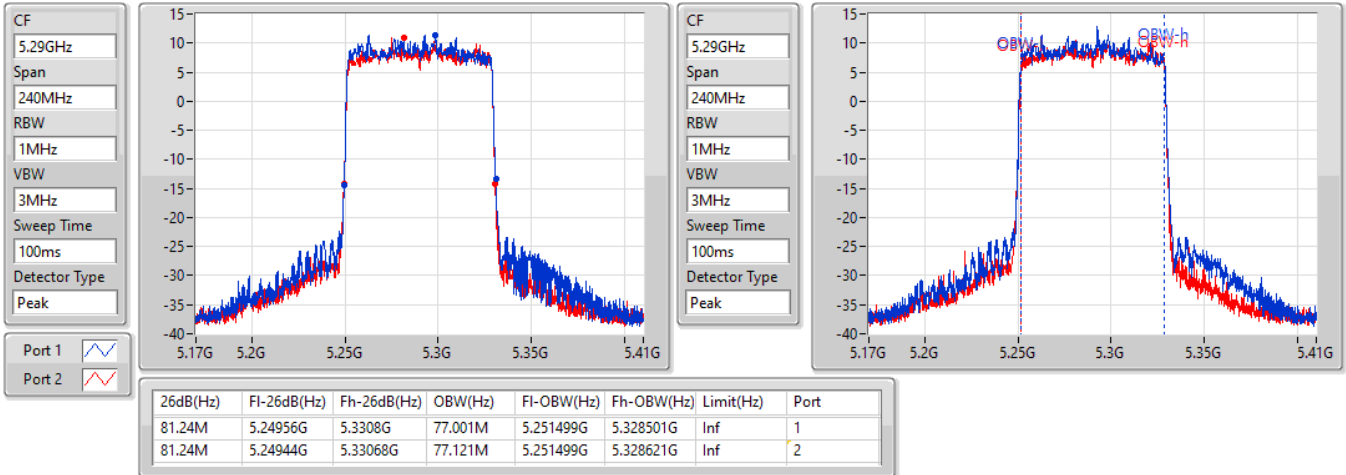

802.11ax HEW80_Nss2,(MCS0)_2TX
EBW
5210MHz

06/05/2021

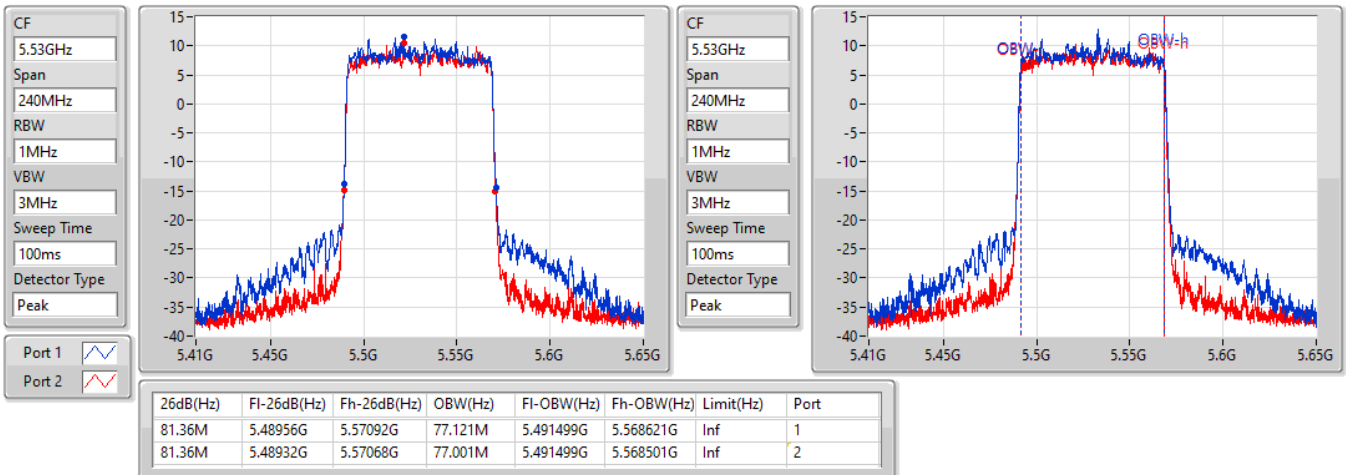


802.11ax HEW80_Nss2,(MCS0)_2TX
EBW
5290MHz

15/05/2021

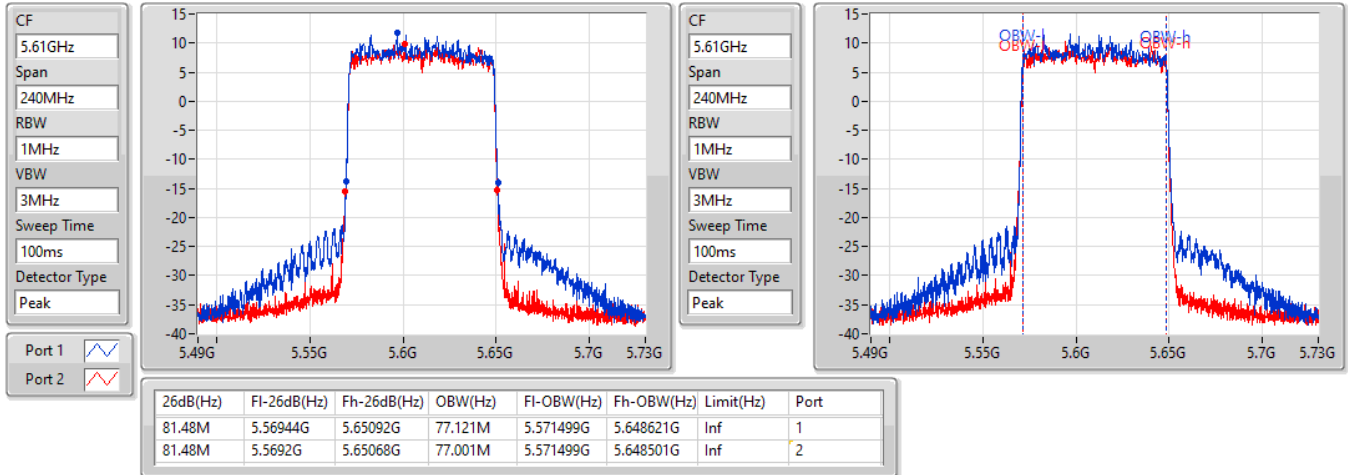

802.11ax HEW80_Nss2,(MCS0)_2TX
EBW
5530MHz

06/05/2021

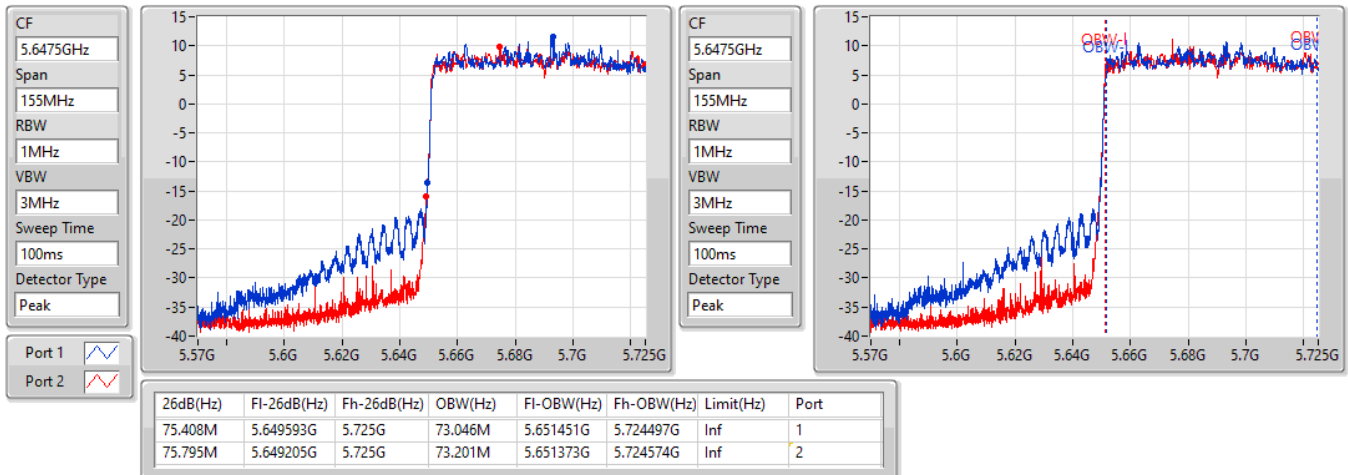


802.11ax HEW80_Nss2,(MCS0)_2TX
EBW
5610MHz

15/05/2021


802.11ax HEW80_Nss2,(MCS0)_2TX
EBW
5690MHz Straddle 5.47-5.725GHz

12/06/2021

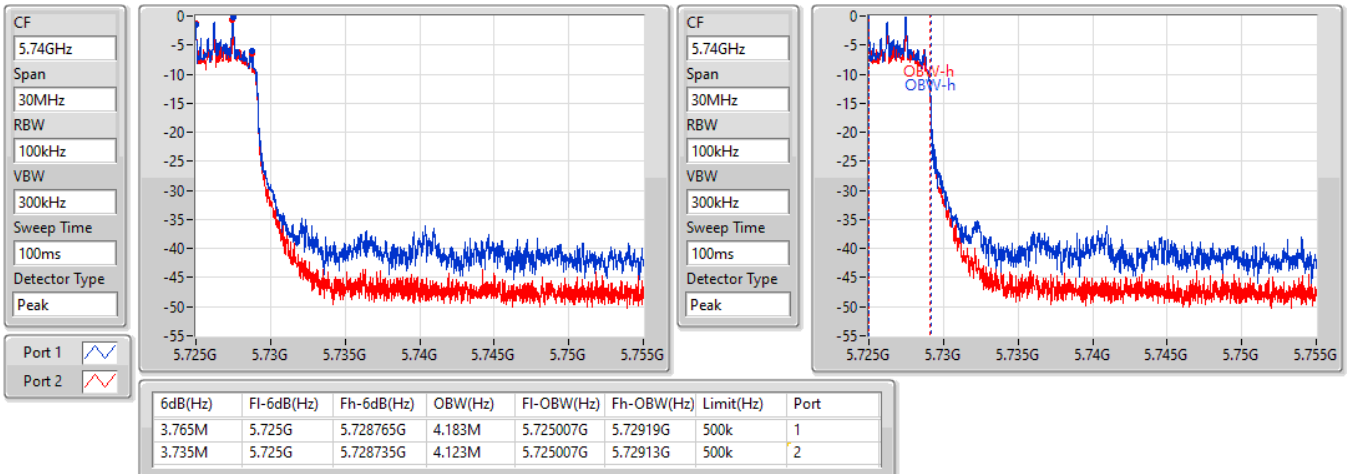


802.11ax HEW80_Nss2,(MCS0)_2TX

EBW

5690MHz Straddle 5.725-5.85GHz

12/06/2021

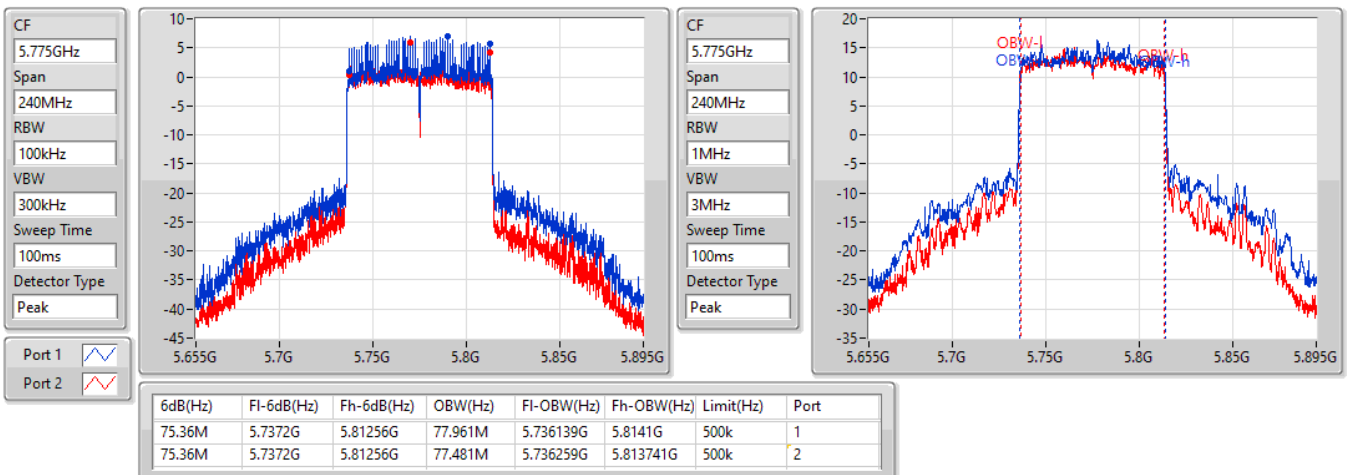


802.11ax HEW80_Nss2,(MCS0)_2TX

EBW

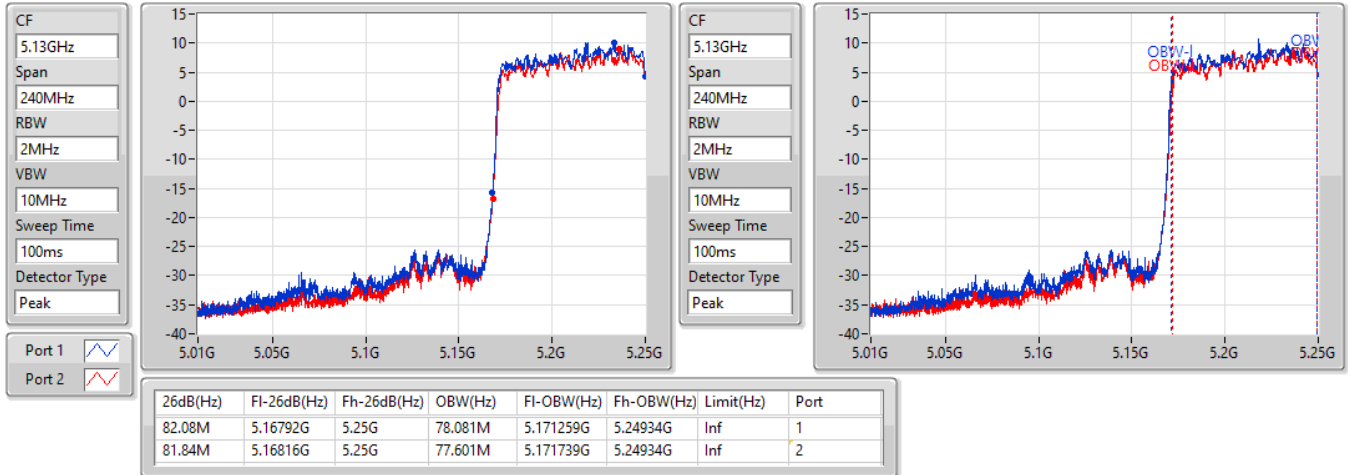
5775MHz

06/05/2021

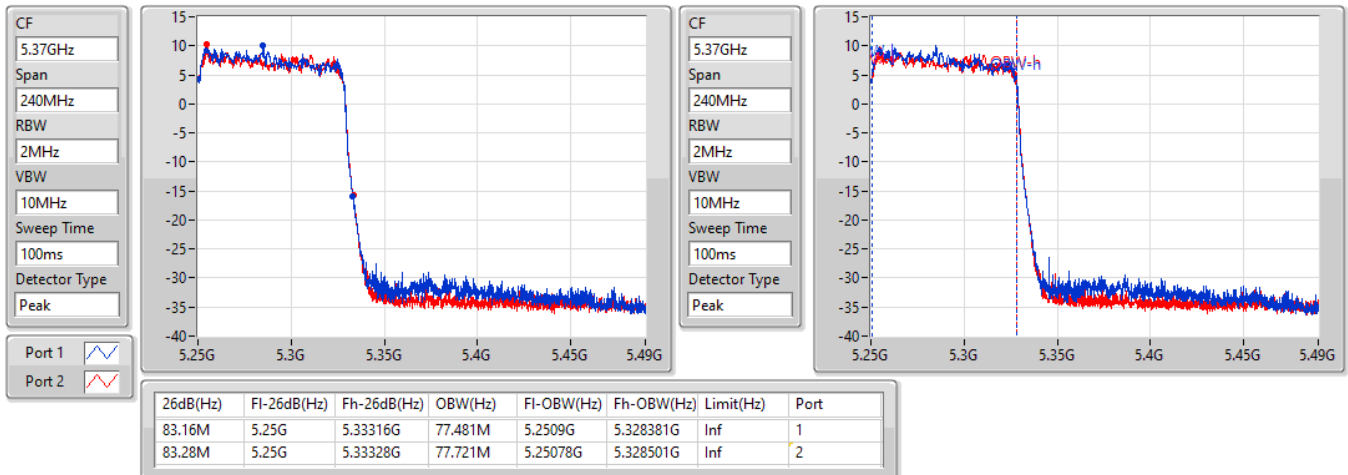


802.11ax HEW160_Nss2,(MCS0)_2TX
EBW
5250MHz Straddle 5.15-5.25GHz

06/05/2021


802.11ax HEW160_Nss2,(MCS0)_2TX
EBW
5250MHz Straddle 5.25-5.35GHz

06/05/2021

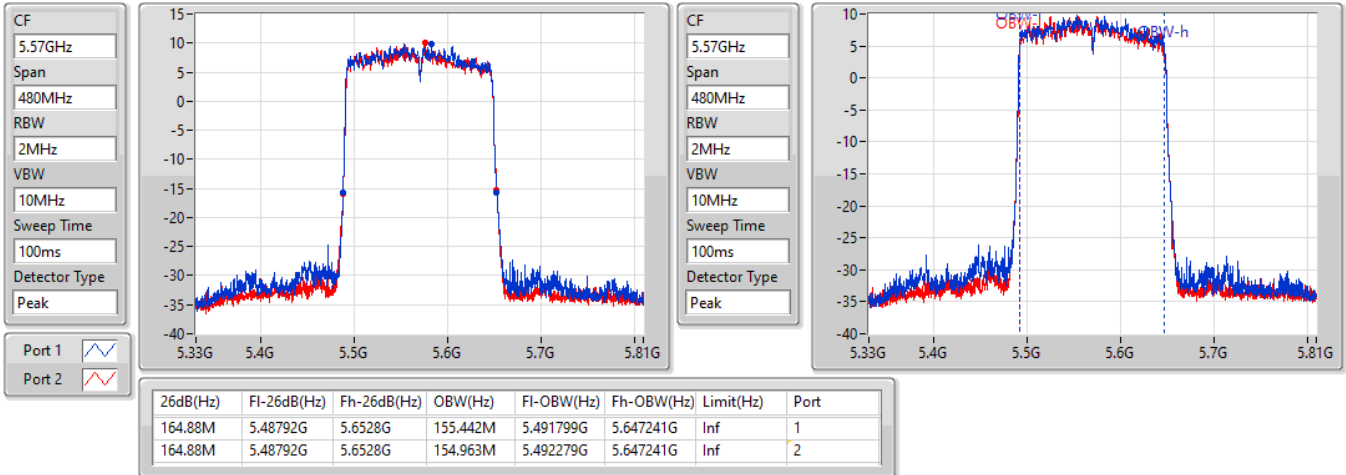


802.11ax HEW160_Nss2,(MCS0)_2TX

EBW

5570MHz

06/05/2021



For Radio 3 / 4T1S / Non beamforming mode Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.15-5.25GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	21.48M	16.792M	16M8D1D	21.06M	16.642M
802.11ax HEW20_Nss1,(MCS0)_4TX	21.57M	19.1M	19M1D1D	21.36M	19.01M
802.11ax HEW40_Nss1,(MCS0)_4TX	40.14M	37.601M	37M6D1D	39.78M	37.481M
802.11ax HEW80_Nss1,(MCS0)_4TX	82.2M	77.121M	77M1D1D	82.08M	77.001M
802.11ax HEW160_Nss1,(MCS0)_4TX	82.2M	77.961M	78M0D1D	81.72M	77.721M
5.25-5.35GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	21.51M	16.792M	16M8D1D	20.97M	16.672M
802.11ax HEW20_Nss1,(MCS0)_4TX	21.6M	19.13M	19M1D1D	21.33M	19.01M
802.11ax HEW40_Nss1,(MCS0)_4TX	40.14M	37.541M	37M5D1D	39.9M	37.421M
802.11ax HEW80_Nss1,(MCS0)_4TX	82.08M	77.001M	77M0D1D	81.72M	77.001M
802.11ax HEW160_Nss1,(MCS0)_4TX	82.68M	77.961M	78M0D1D	82.44M	77.721M
5.47-5.725GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	21.45M	16.792M	16M8D1D	15.505M	13.363M
802.11ax HEW20_Nss1,(MCS0)_4TX	21.6M	19.07M	19M1D1D	15.645M	14.5M
802.11ax HEW40_Nss1,(MCS0)_4TX	40.14M	37.541M	37M5D1D	34.875M	33.546M
802.11ax HEW80_Nss1,(MCS0)_4TX	82.2M	77.121M	77M1D1D	75.873M	73.046M
802.11ax HEW160_Nss1,(MCS0)_4TX	165.12M	155.682M	156MD1D	164.16M	154.963M
5.725-5.85GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	16.56M	24.078M	24M1D1D	3.12M	4.123M
802.11ax HEW20_Nss1,(MCS0)_4TX	18.96M	23.478M	23M5D1D	4.395M	4.648M
802.11ax HEW40_Nss1,(MCS0)_4TX	37.56M	41.259M	41M3D1D	3.495M	4.063M
802.11ax HEW80_Nss1,(MCS0)_4TX	75.84M	77.361M	77M4D1D	3.27M	4.093M

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)	Port 3-N dB (Hz)	Port 3-OBW (Hz)	Port 4-N dB (Hz)	Port 4-OBW (Hz)
802.11a_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	Inf	21.21M	16.762M	21.48M	16.762M	21.06M	16.732M	21.21M	16.672M
5200MHz	Pass	Inf	21.09M	16.762M	21.27M	16.792M	21.24M	16.732M	21.15M	16.642M
5240MHz	Pass	Inf	21.15M	16.732M	21.42M	16.792M	21.06M	16.732M	21.15M	16.672M
5260MHz	Pass	Inf	21.06M	16.732M	21.45M	16.792M	21.27M	16.762M	21.12M	16.672M
5300MHz	Pass	Inf	21.12M	16.702M	21.51M	16.792M	21.18M	16.762M	20.97M	16.702M
5320MHz	Pass	Inf	21.18M	16.762M	21.42M	16.792M	21.3M	16.762M	21.06M	16.672M
5500MHz	Pass	Inf	21.18M	16.762M	21.36M	16.762M	21.21M	16.732M	21.15M	16.702M
5580MHz	Pass	Inf	21.21M	16.732M	21.42M	16.762M	21.18M	16.732M	21.15M	16.702M
5700MHz	Pass	Inf	21.24M	16.762M	21.45M	16.792M	21.27M	16.762M	21.24M	16.702M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	15.628M	13.398M	15.628M	13.451M	15.663M	13.433M	15.505M	13.363M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	3.12M	4.213M	3.135M	4.273M	3.135M	4.183M	3.135M	4.123M
5745MHz	Pass	500k	16.56M	19.58M	16.29M	17.391M	16.35M	17.241M	16.26M	21.559M
5785MHz	Pass	500k	16.32M	20.42M	16.29M	17.571M	16.29M	17.511M	16.02M	21.949M
5825MHz	Pass	500k	16.29M	20.42M	16.29M	17.841M	16.29M	17.601M	16.29M	24.078M
802.11ax HEW20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	Inf	21.57M	19.01M	21.39M	19.04M	21.54M	19.04M	21.42M	19.1M
5200MHz	Pass	Inf	21.51M	19.01M	21.36M	19.01M	21.54M	19.07M	21.45M	19.01M
5240MHz	Pass	Inf	21.51M	19.01M	21.42M	19.04M	21.54M	19.07M	21.51M	19.07M
5260MHz	Pass	Inf	21.51M	19.04M	21.36M	19.04M	21.6M	19.07M	21.42M	19.13M
5300MHz	Pass	Inf	21.51M	19.01M	21.33M	19.04M	21.6M	19.04M	21.48M	19.13M
5320MHz	Pass	Inf	21.54M	19.01M	21.36M	19.04M	21.6M	19.07M	21.45M	19.07M
5500MHz	Pass	Inf	21.42M	19.04M	21.39M	19.04M	21.51M	19.07M	21.42M	19.04M
5580MHz	Pass	Inf	21.45M	19.04M	21.39M	19.04M	21.51M	19.07M	21.6M	19.07M
5700MHz	Pass	Inf	21.45M	19.01M	21.45M	19.07M	21.48M	19.04M	21.48M	19.04M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	15.75M	14.535M	15.645M	14.5M	15.768M	14.535M	15.663M	14.518M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	4.44M	4.648M	4.395M	4.663M	4.455M	4.663M	4.53M	4.738M
5745MHz	Pass	500k	18.69M	20.18M	18.72M	19.25M	18.54M	19.28M	18.63M	21.829M
5785MHz	Pass	500k	18.72M	20.03M	18.96M	19.22M	18.69M	19.28M	18.75M	20.24M
5825MHz	Pass	500k	18.63M	19.85M	18.69M	19.31M	18.69M	19.31M	18.6M	23.478M
802.11ax HEW40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	Inf	39.96M	37.481M	39.78M	37.541M	40.02M	37.601M	40.02M	37.541M
5230MHz	Pass	Inf	40.02M	37.481M	39.96M	37.481M	40.14M	37.541M	40.02M	37.481M
5270MHz	Pass	Inf	40.02M	37.421M	39.96M	37.541M	40.14M	37.541M	40.14M	37.481M
5310MHz	Pass	Inf	39.96M	37.481M	39.9M	37.541M	40.02M	37.541M	40.08M	37.541M
5510MHz	Pass	Inf	39.96M	37.541M	39.84M	37.541M	40.08M	37.541M	40.08M	37.541M
5550MHz	Pass	Inf	40.08M	37.481M	39.96M	37.541M	40.14M	37.541M	40.08M	37.541M
5670MHz	Pass	Inf	40.14M	37.541M	39.84M	37.541M	40.02M	37.541M	40.14M	37.481M
5710MHz Straddle 5.47-5.725GHz	Pass	Inf	34.988M	33.583M	34.875M	33.583M	35.063M	33.583M	34.988M	33.546M
5710MHz Straddle 5.725-5.85GHz	Pass	500k	3.75M	4.063M	3.495M	4.078M	3.705M	4.078M	3.645M	4.078M
5755MHz	Pass	500k	37.26M	38.141M	37.56M	37.901M	36.3M	37.901M	36.36M	41.199M
5795MHz	Pass	500k	37.2M	38.501M	36.6M	37.901M	37.2M	37.841M	36.6M	41.259M
802.11ax HEW80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	Inf	82.2M	77.121M	82.2M	77.001M	82.2M	77.121M	82.08M	77.121M

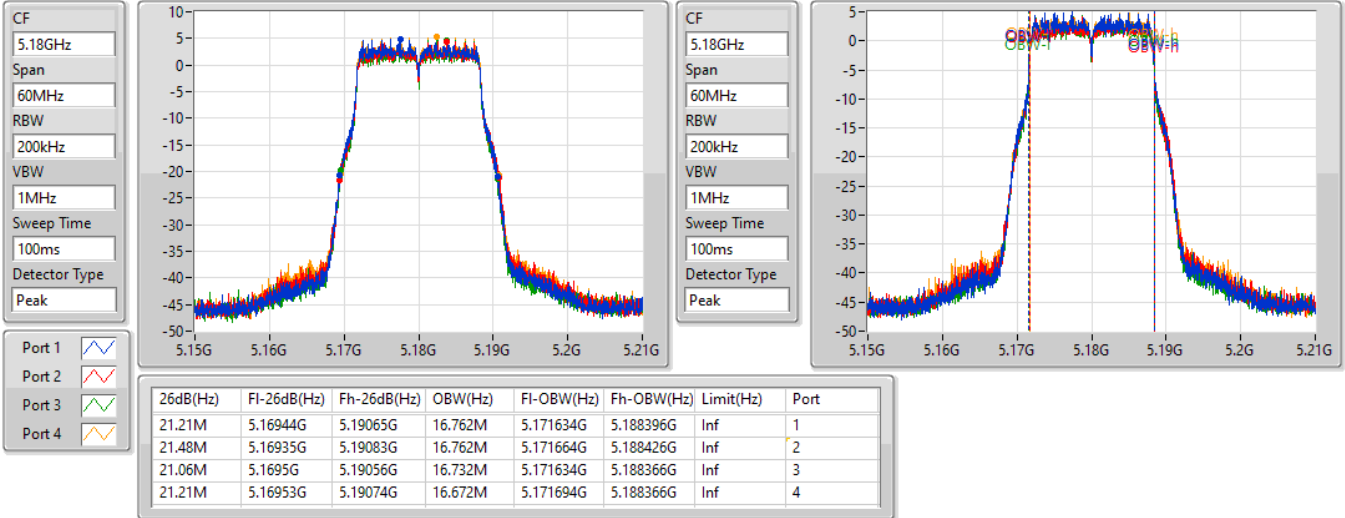
Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)	Port 3-N dB (Hz)	Port 3-OBW (Hz)	Port 4-N dB (Hz)	Port 4-OBW (Hz)
5290MHz	Pass	Inf	81.96M	77.001M	82.08M	77.001M	81.72M	77.001M	81.84M	77.001M
5530MHz	Pass	Inf	81.84M	77.001M	82.08M	77.001M	81.96M	77.001M	81.72M	77.001M
5610MHz	Pass	Inf	81.96M	77.001M	82.2M	77.121M	81.84M	77.121M	81.96M	77.121M
5690MHz Straddle 5.47-5.725GHz	Pass	Inf	75.873M	73.046M	75.95M	73.123M	76.105M	73.046M	75.873M	73.123M
5690MHz Straddle 5.725-5.85GHz	Pass	500k	3.27M	4.153M	3.795M	4.138M	3.27M	4.108M	3.765M	4.093M
5775MHz	Pass	500k	75.84M	77.241M	75.24M	77.121M	75.36M	77.121M	75.48M	77.361M
802.11ax HEW160_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	Inf	81.72M	77.721M	81.72M	77.841M	82.2M	77.961M	81.96M	77.841M
5250MHz Straddle 5.25-5.35GHz	Pass	Inf	82.56M	77.961M	82.68M	77.961M	82.44M	77.721M	82.68M	77.961M
5570MHz	Pass	Inf	164.64M	155.682M	164.16M	154.963M	165.12M	155.442M	164.88M	155.682M

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

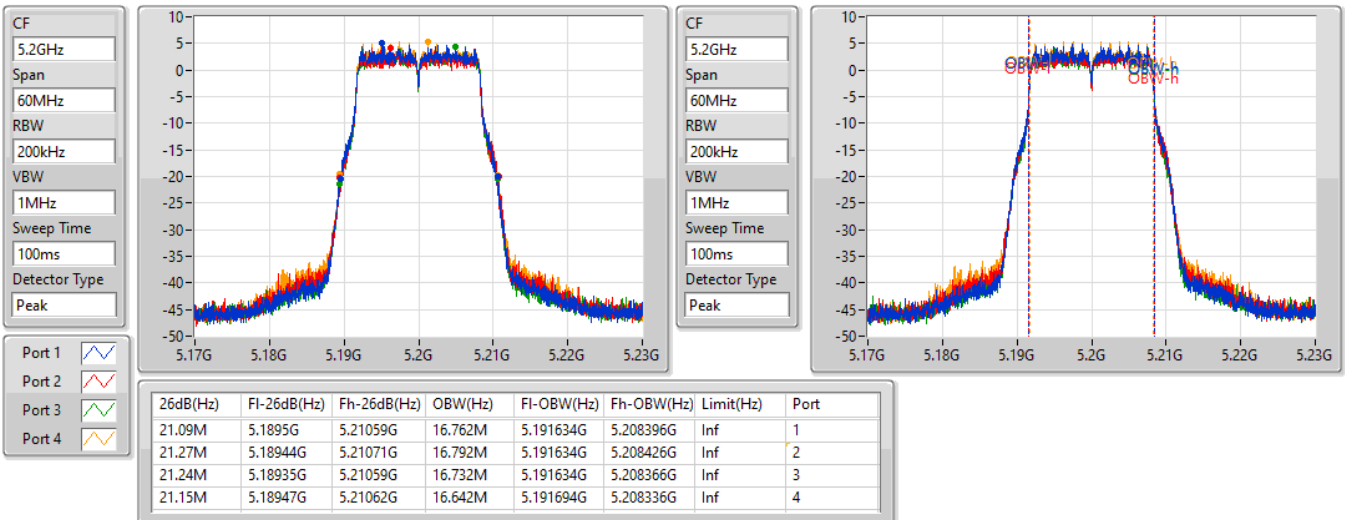
Port X-OBW = Port X 99% occupied bandwidth;

802.11a_Nss1,(6Mbps)_4TX
EBW
5180MHz

15/05/2021


802.11a_Nss1,(6Mbps)_4TX
EBW
5200MHz

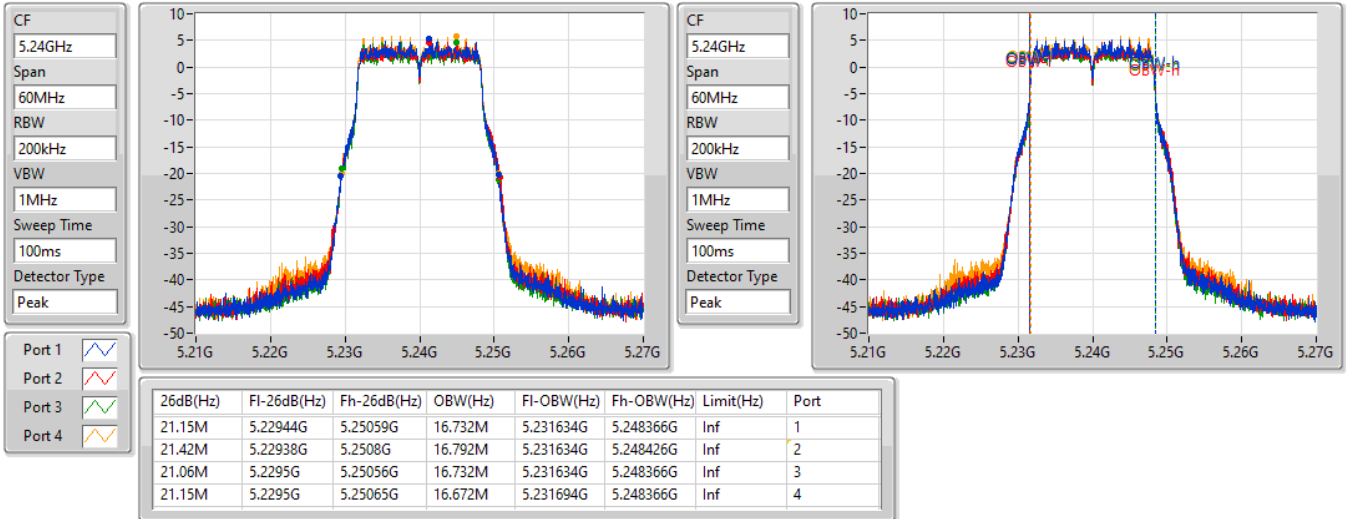
15/05/2021



802.11a_Nss1,(6Mbps)_4TX

EBW
5240MHz

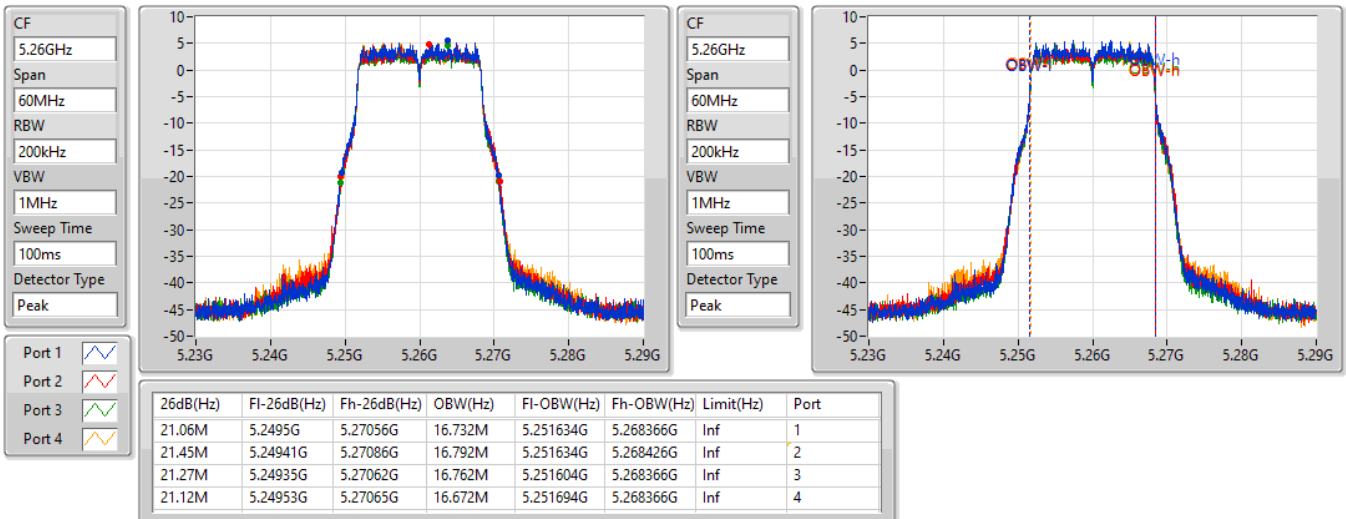
15/05/2021



802.11a_Nss1,(6Mbps)_4TX

EBW
5260MHz

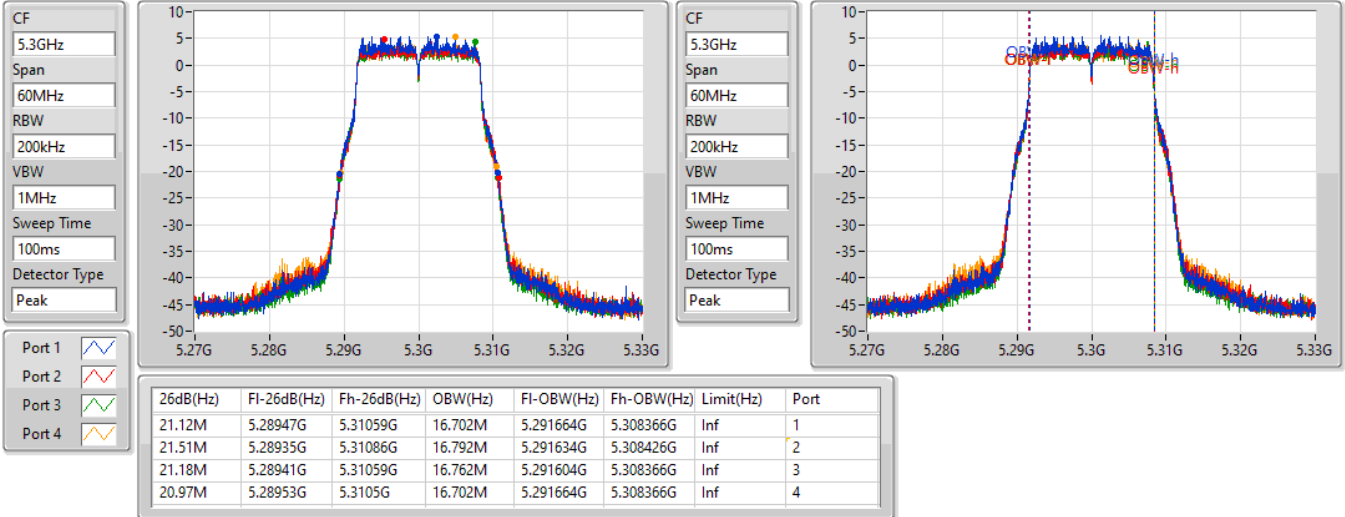
15/05/2021



802.11a_Nss1,(6Mbps)_4TX

EBW
5300MHz

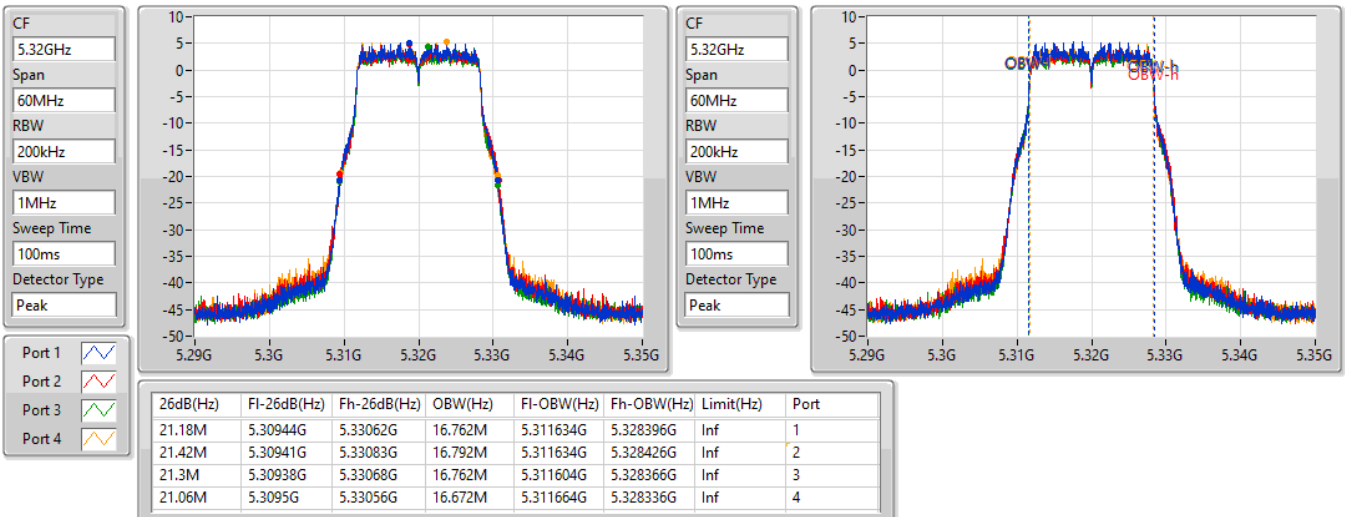
15/05/2021



802.11a_Nss1,(6Mbps)_4TX

EBW
5320MHz

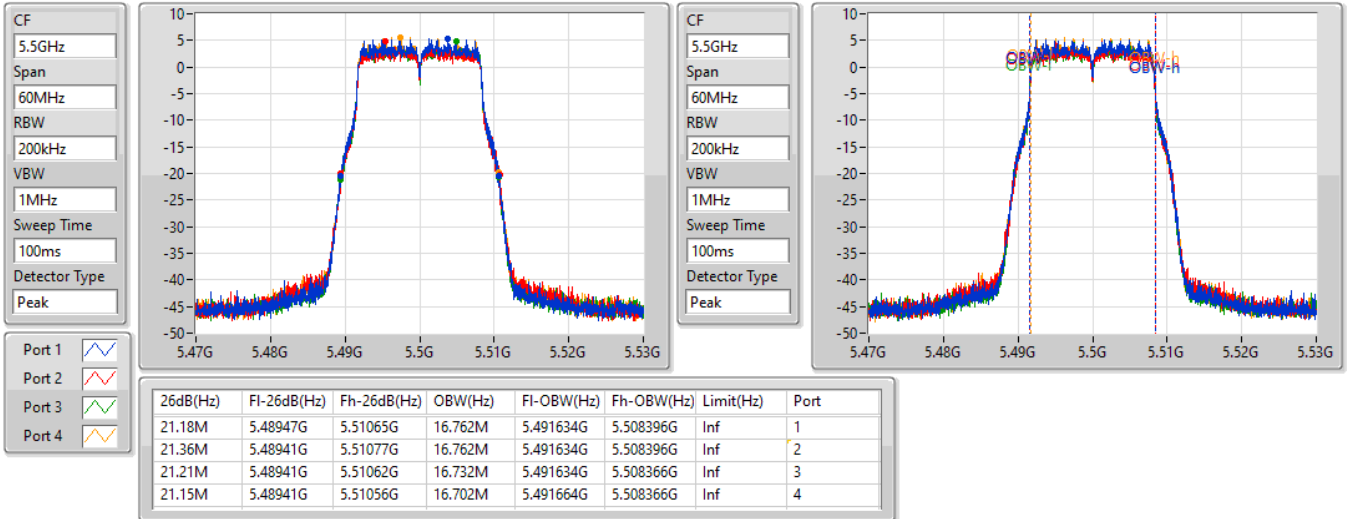
15/05/2021



802.11a_Nss1,(6Mbps)_4TX

EBW
5500MHz

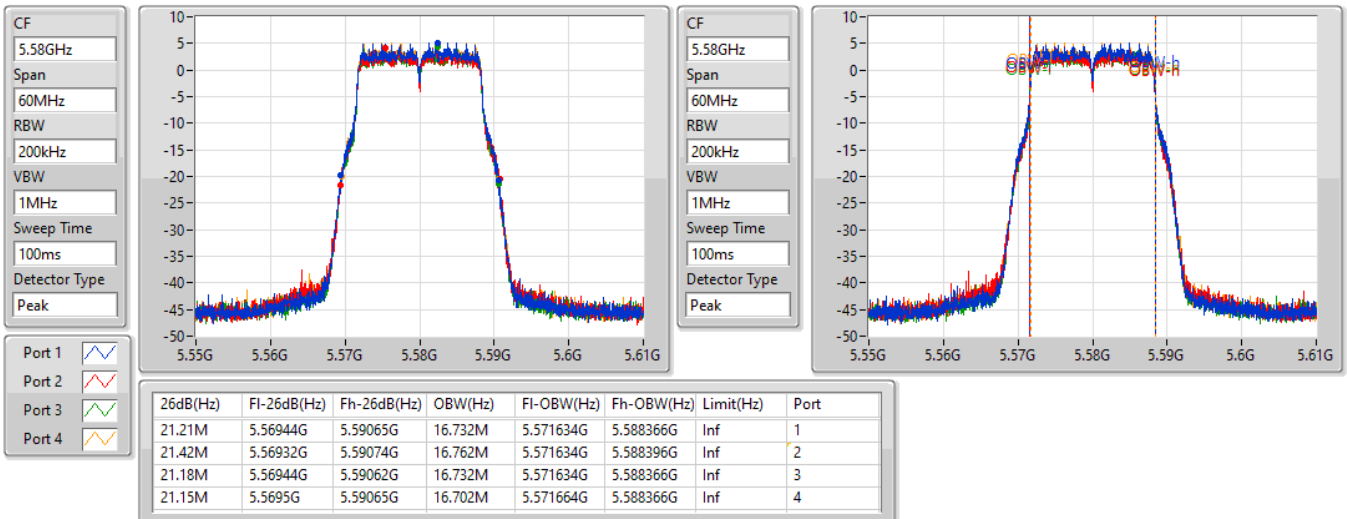
15/05/2021



802.11a_Nss1,(6Mbps)_4TX

EBW
5580MHz

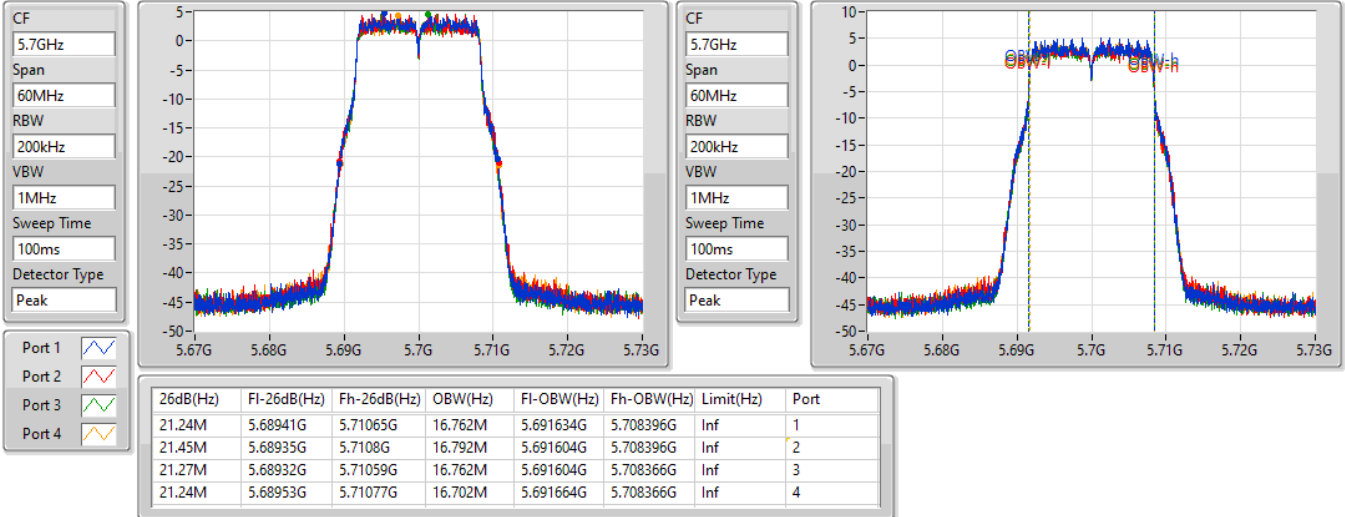
15/05/2021



802.11a_Nss1,(6Mbps)_4TX

EBW
5700MHz

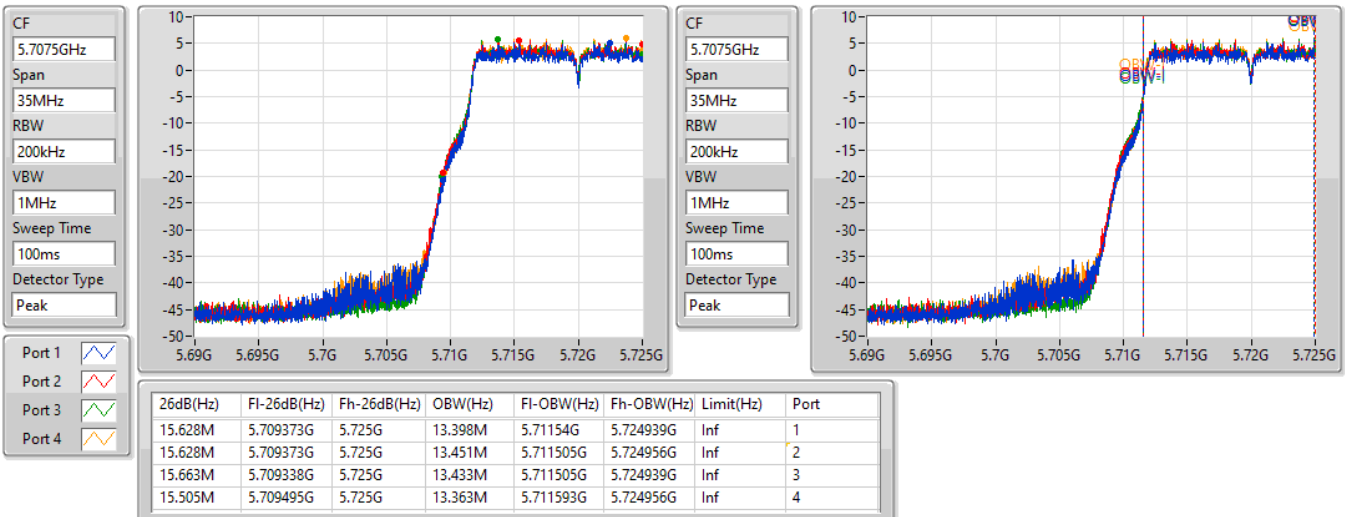
15/05/2021



802.11a_Nss1,(6Mbps)_4TX

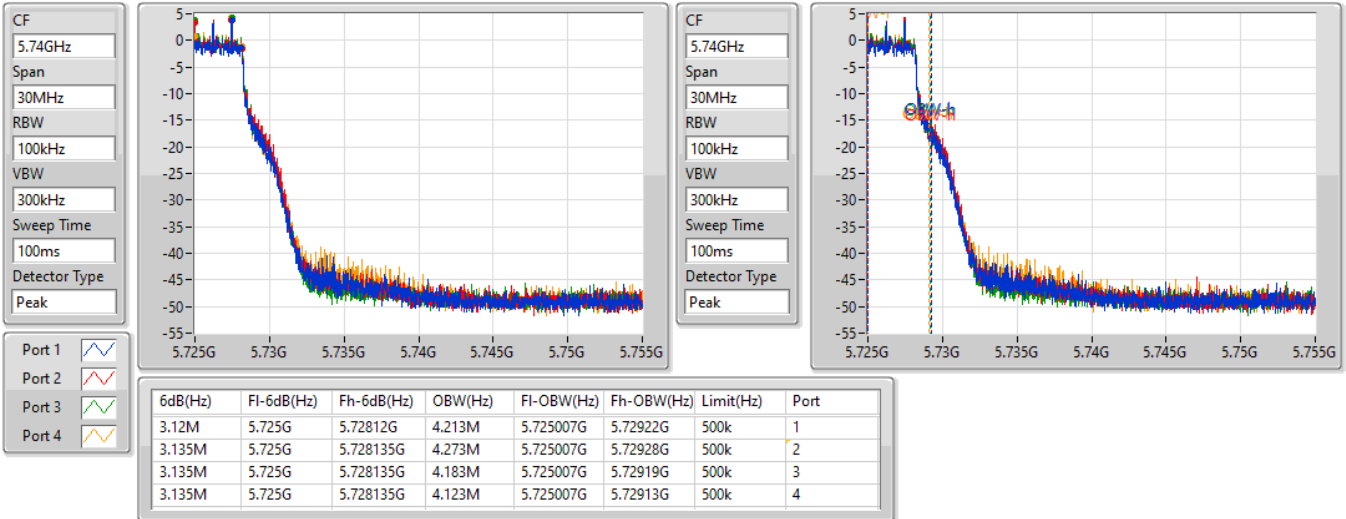
EBW
5720MHz Straddle 5.47-5.725GHz

12/06/2021

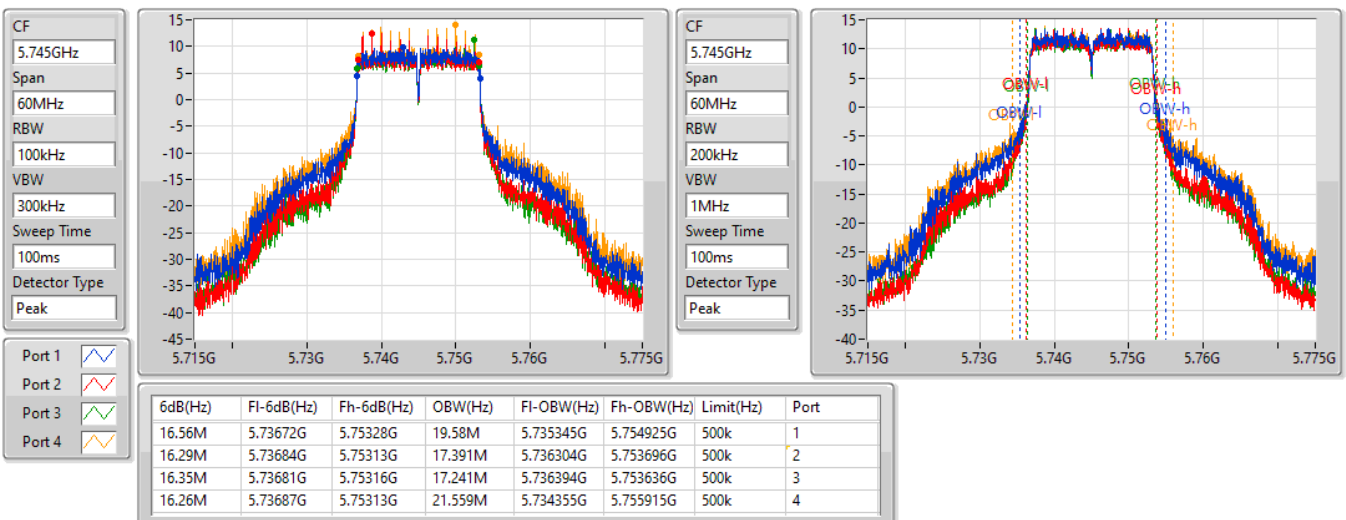


802.11a_Nss1,(6Mbps)_4TX
EBW
5720MHz Straddle 5.725-5.85GHz

12/06/2021

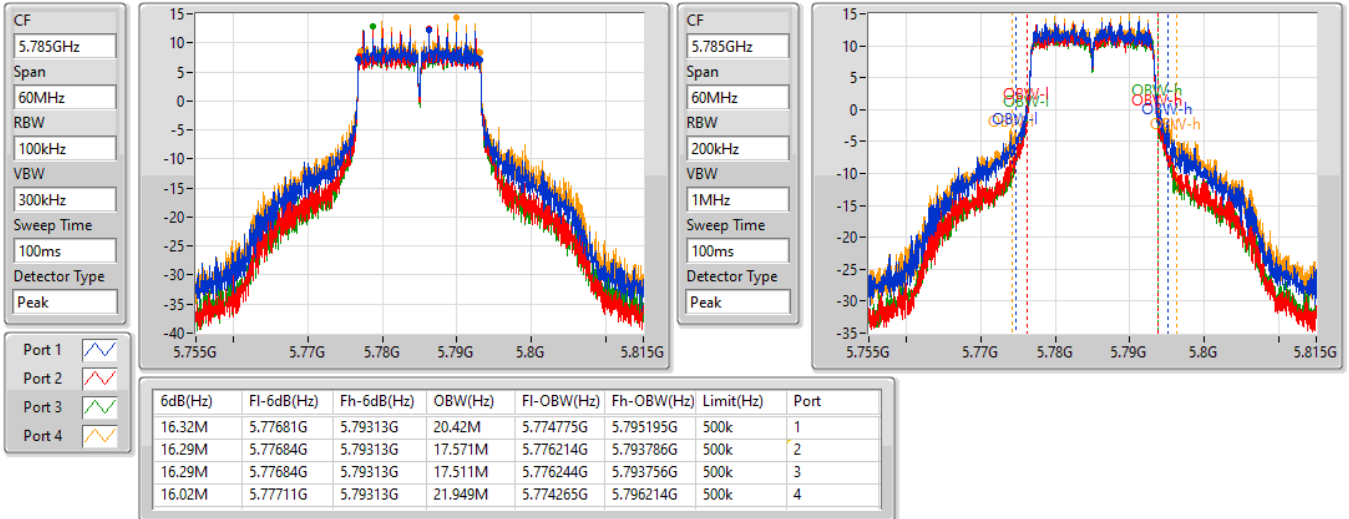

802.11a_Nss1,(6Mbps)_4TX
EBW
5745MHz

15/05/2021

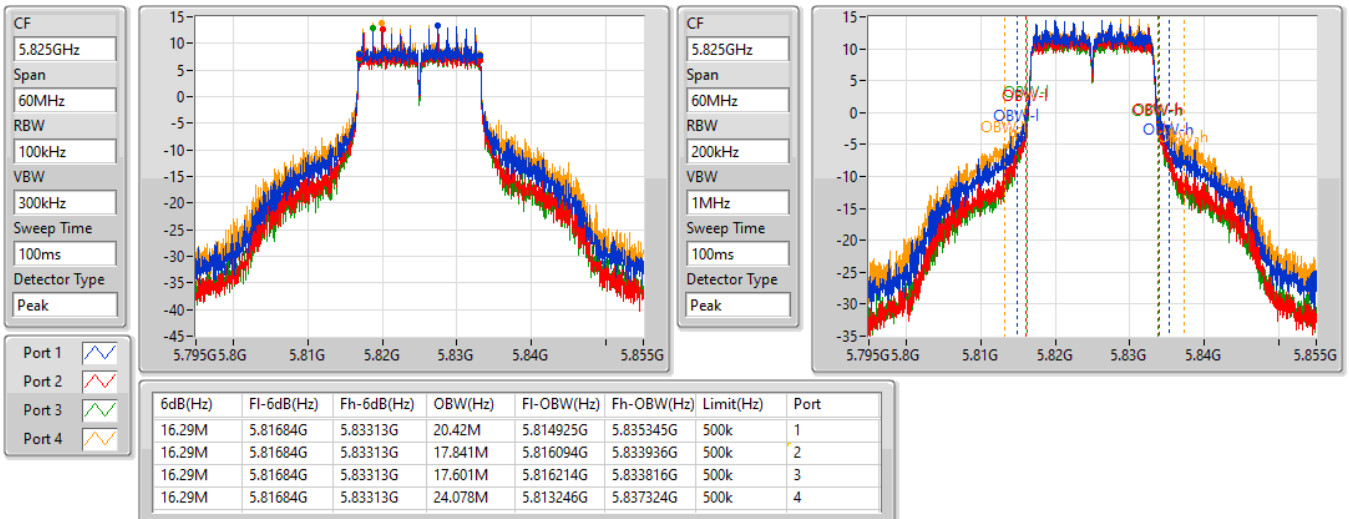


802.11a_Nss1,(6Mbps)_4TX
EBW
5785MHz

15/05/2021

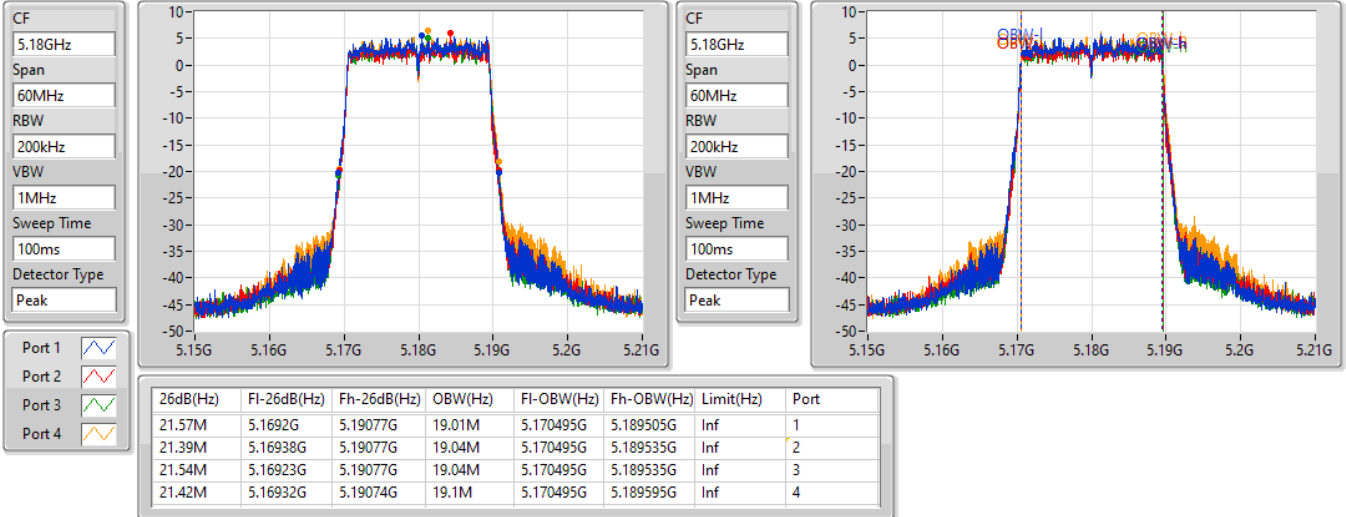

802.11a_Nss1,(6Mbps)_4TX
EBW
5825MHz

15/05/2021

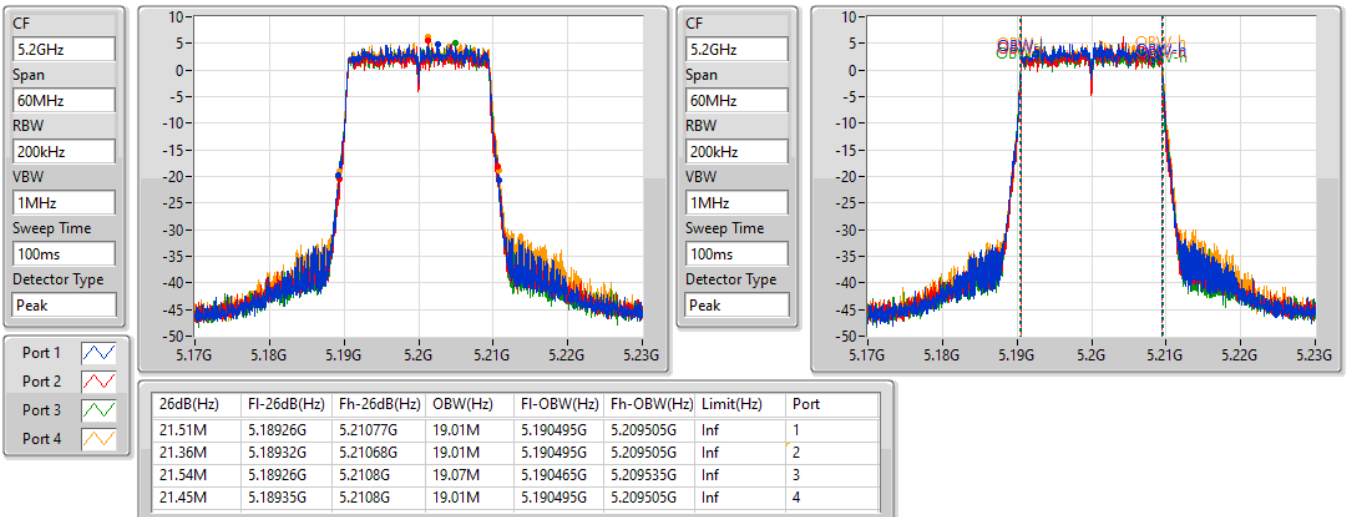


802.11ax HEW20_Nss1,(MCS0)_4TX
EBW
5180MHz

15/05/2021

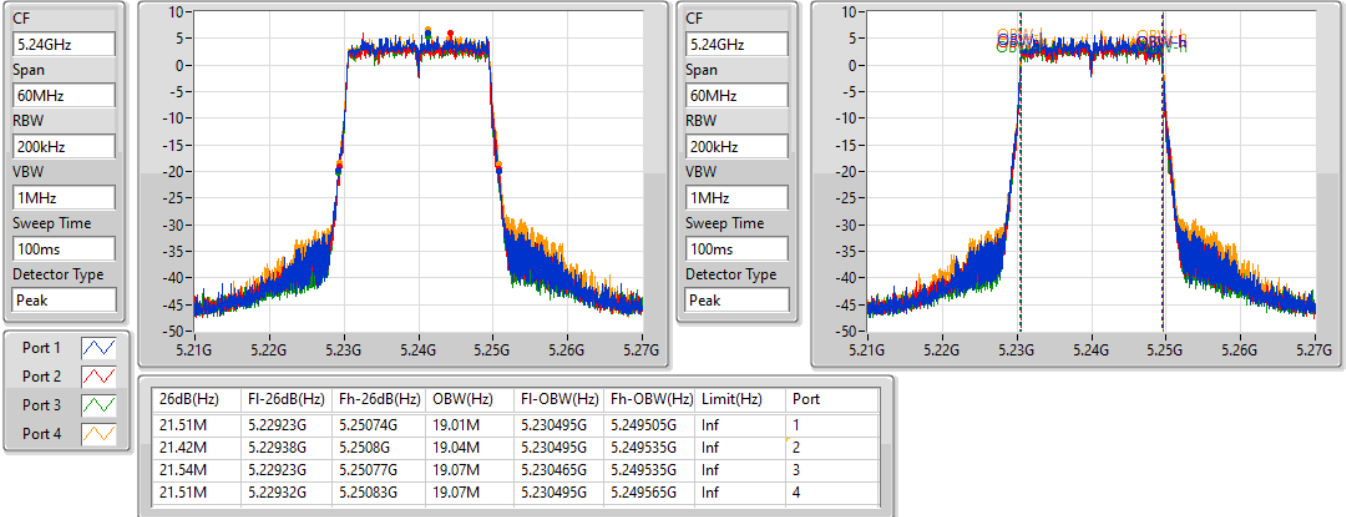

802.11ax HEW20_Nss1,(MCS0)_4TX
EBW
5200MHz

15/05/2021

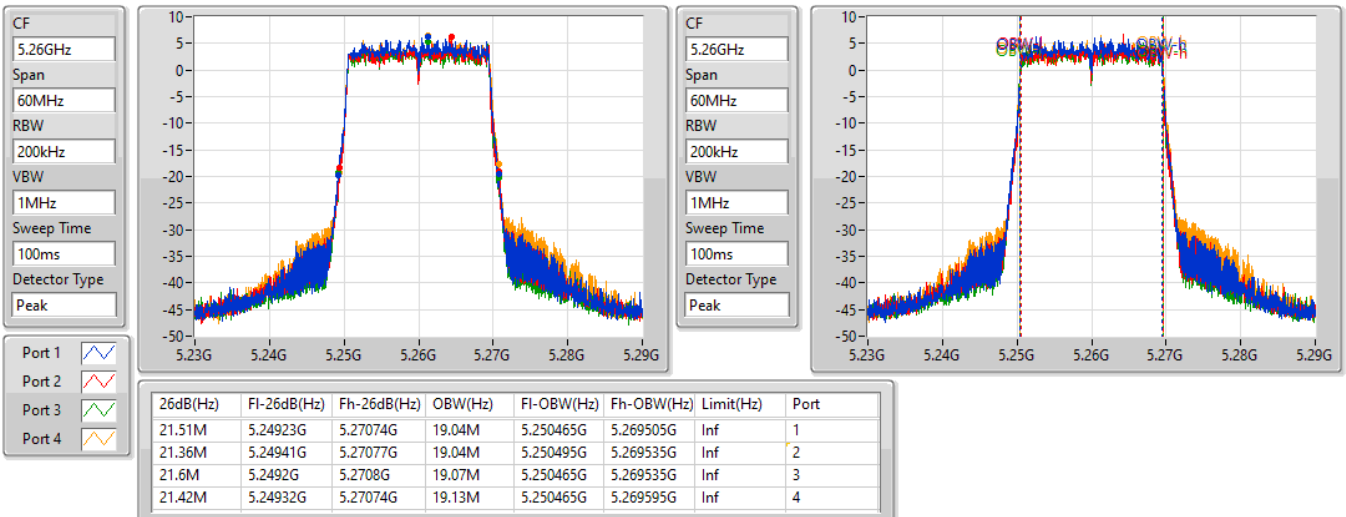


802.11ax HEW20_Nss1,(MCS0)_4TX
EBW
5240MHz

15/05/2021

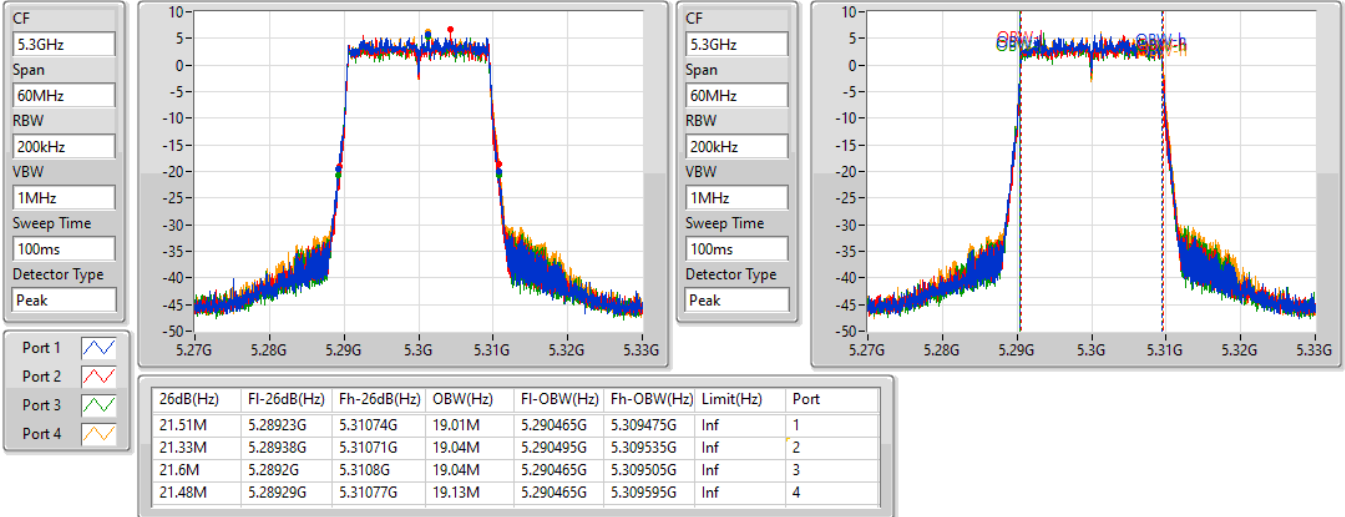

802.11ax HEW20_Nss1,(MCS0)_4TX
EBW
5260MHz

15/05/2021

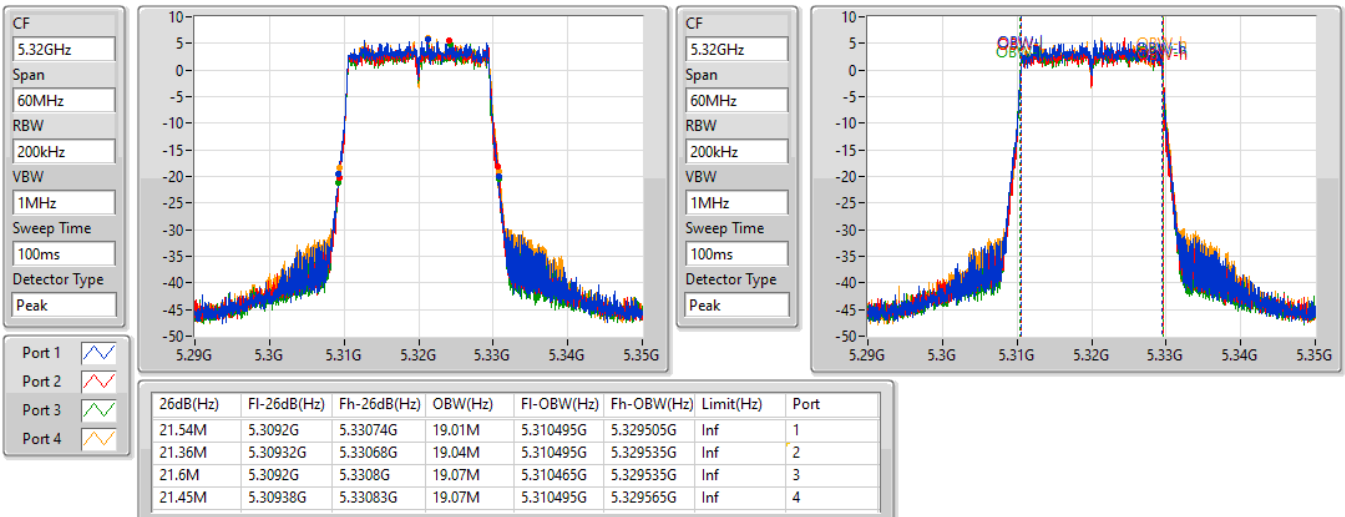


802.11ax HEW20_Nss1,(MCS0)_4TX
EBW
5300MHz

15/05/2021

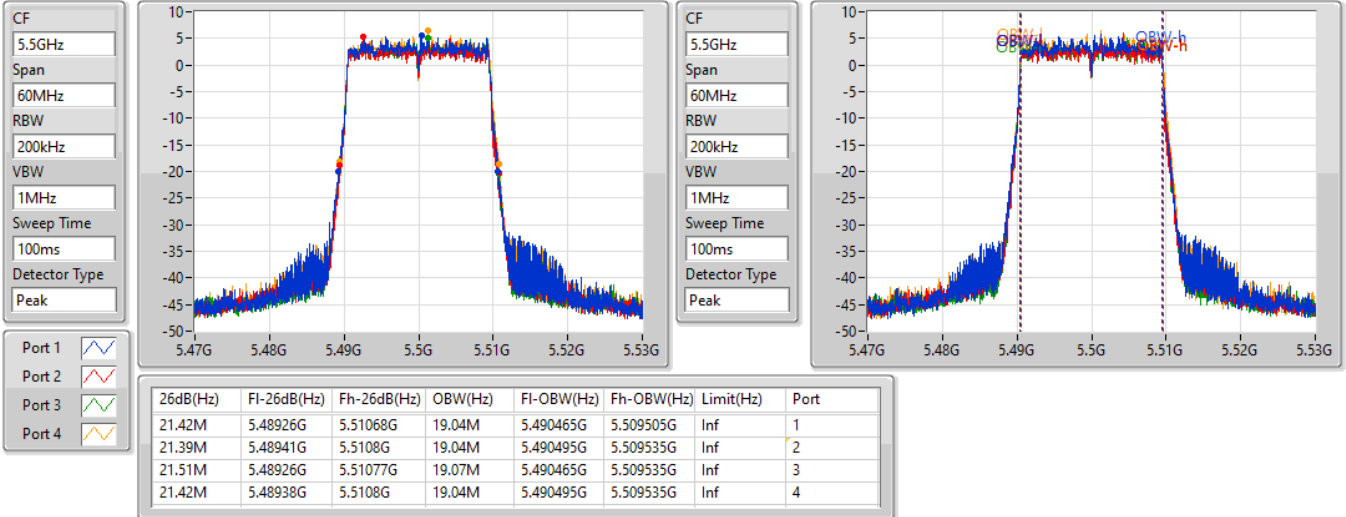

802.11ax HEW20_Nss1,(MCS0)_4TX
EBW
5320MHz

15/05/2021

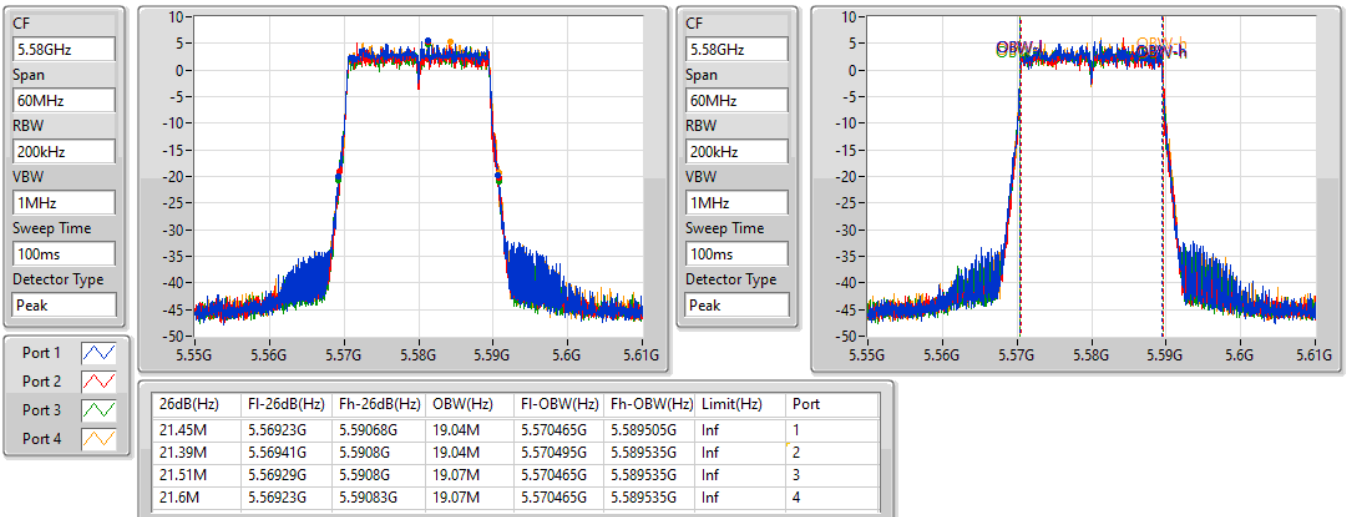


802.11ax HEW20_Nss1,(MCS0)_4TX
EBW
5500MHz

15/05/2021

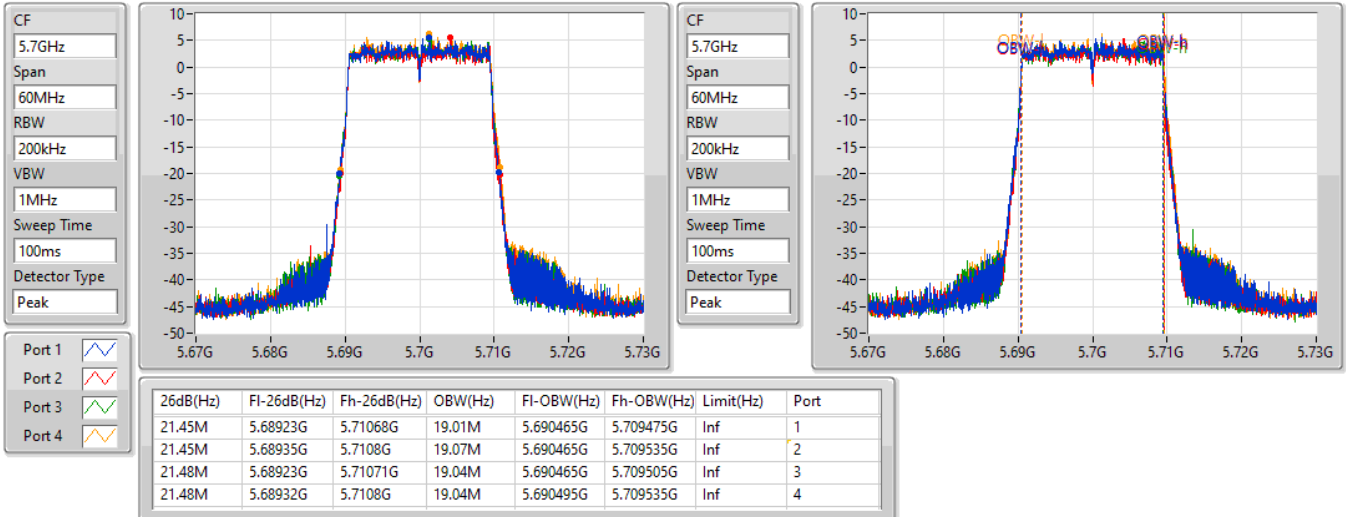

802.11ax HEW20_Nss1,(MCS0)_4TX
EBW
5580MHz

15/05/2021

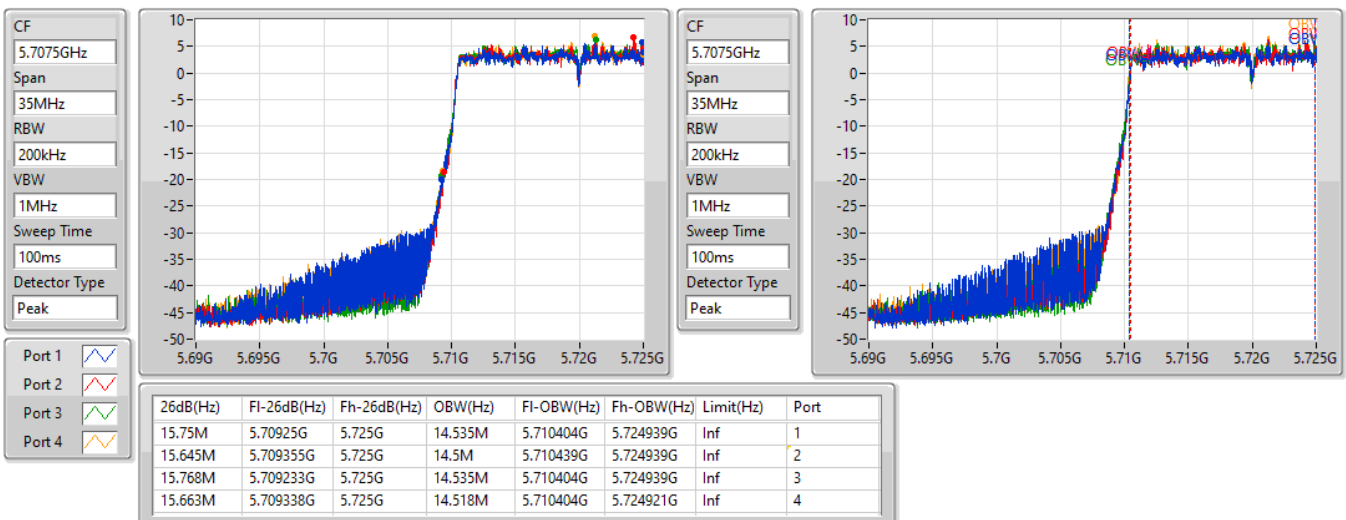


802.11ax HEW20_Nss1,(MCS0)_4TX
EBW
5700MHz

15/05/2021

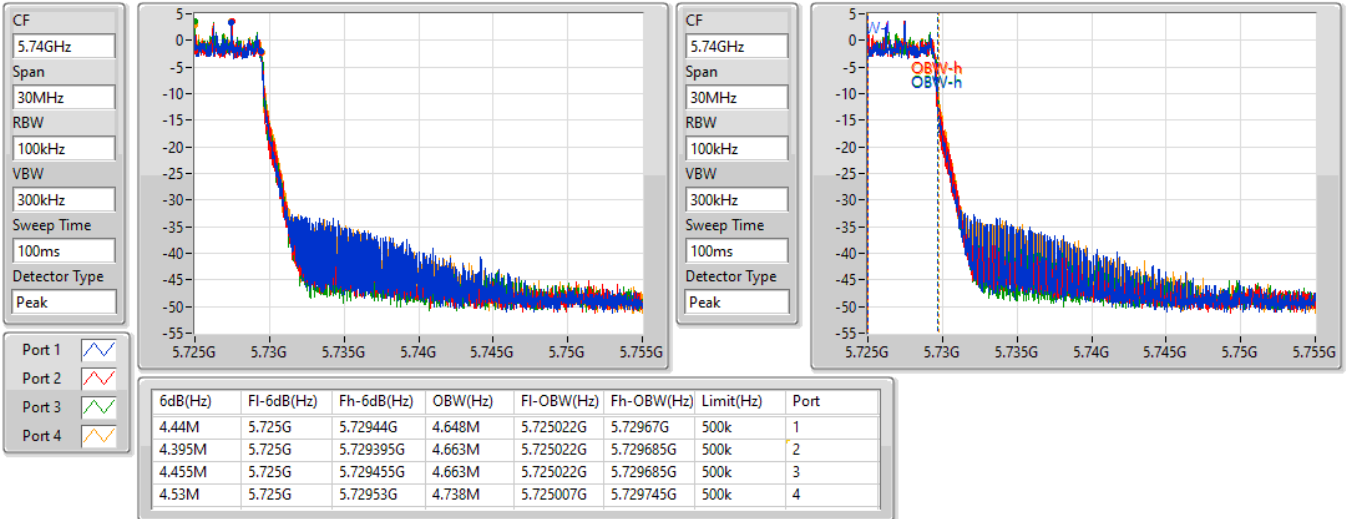

802.11ax HEW20_Nss1,(MCS0)_4TX
EBW
5720MHz Straddle 5.47-5.725GHz

12/06/2021

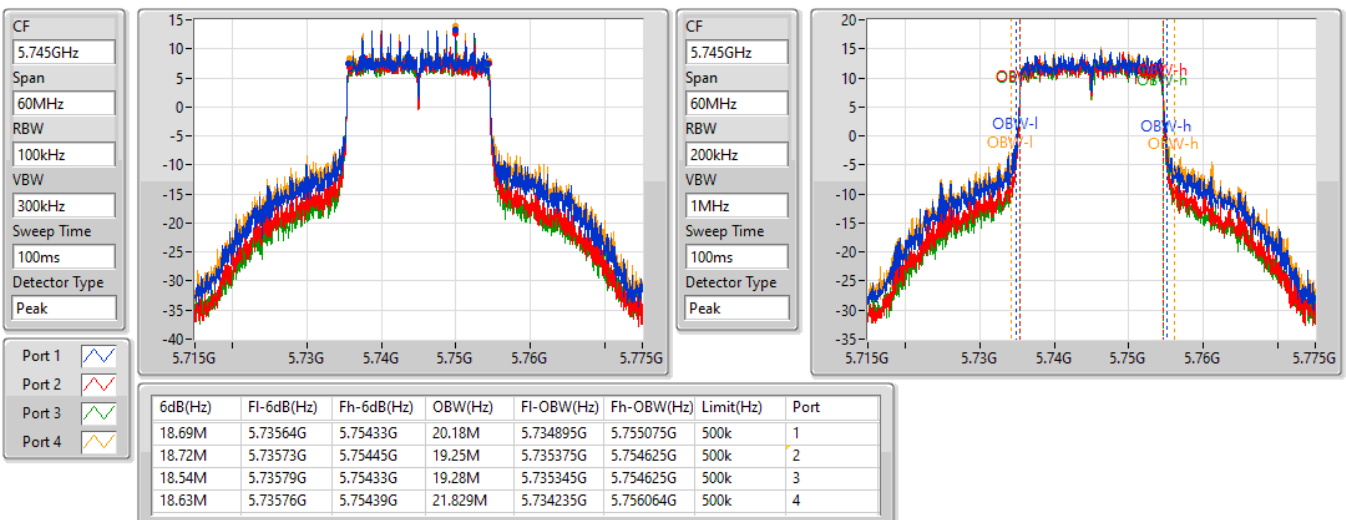


802.11ax HEW20_Nss1,(MCS0)_4TX
EBW
5720MHz Straddle 5.725-5.85GHz

12/06/2021

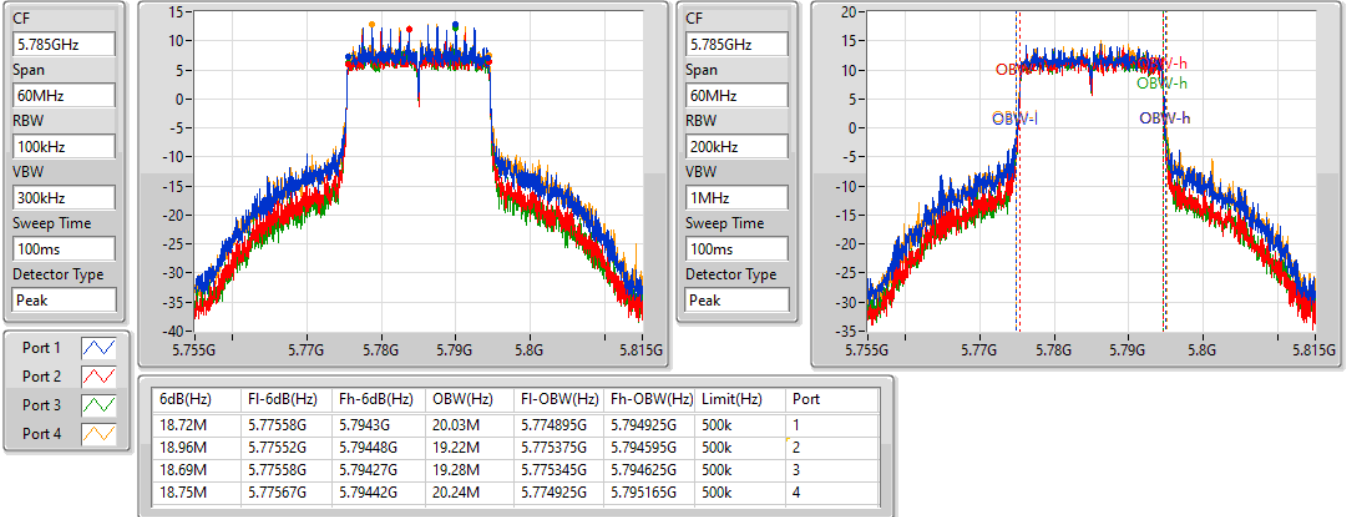

802.11ax HEW20_Nss1,(MCS0)_4TX
EBW
5745MHz

15/05/2021

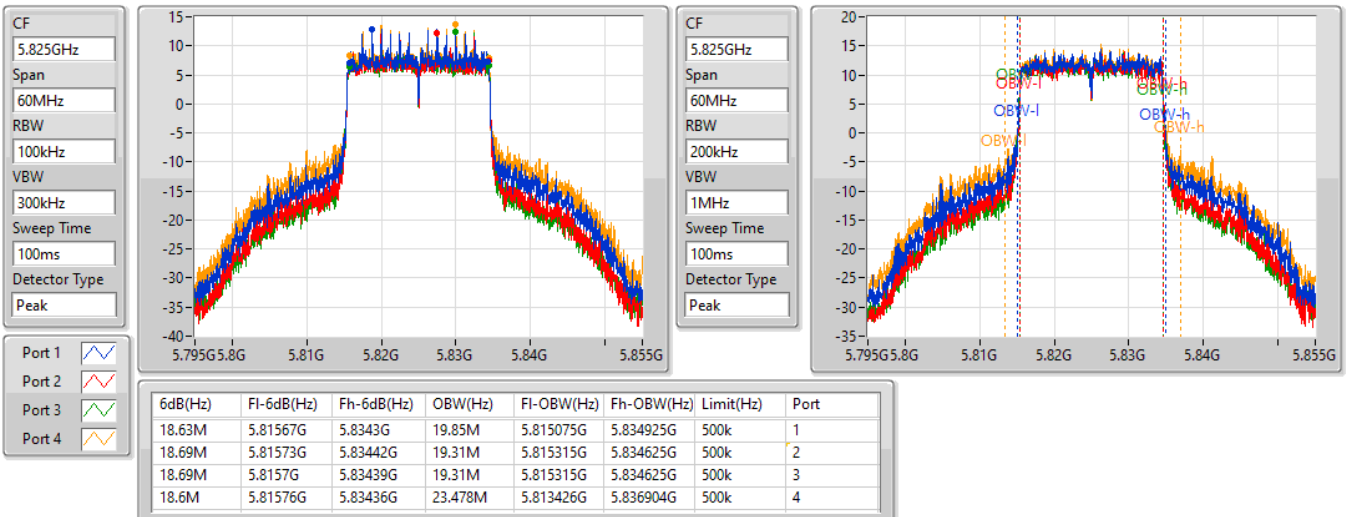


802.11ax HEW20_Nss1,(MCS0)_4TX
EBW
5785MHz

15/05/2021

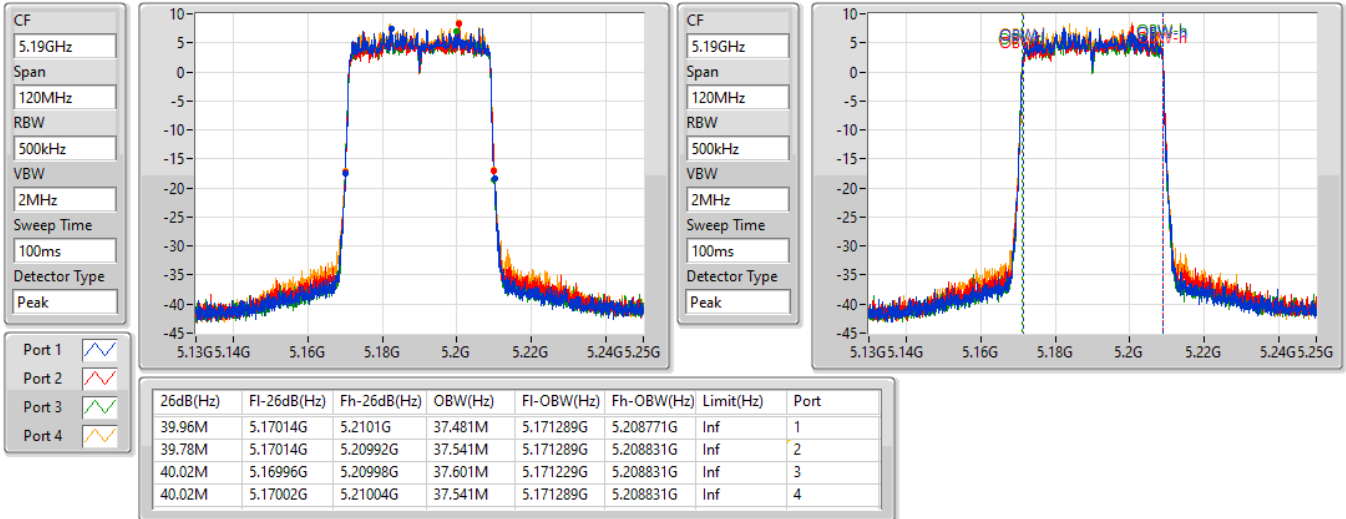

802.11ax HEW20_Nss1,(MCS0)_4TX
EBW
5825MHz

15/05/2021

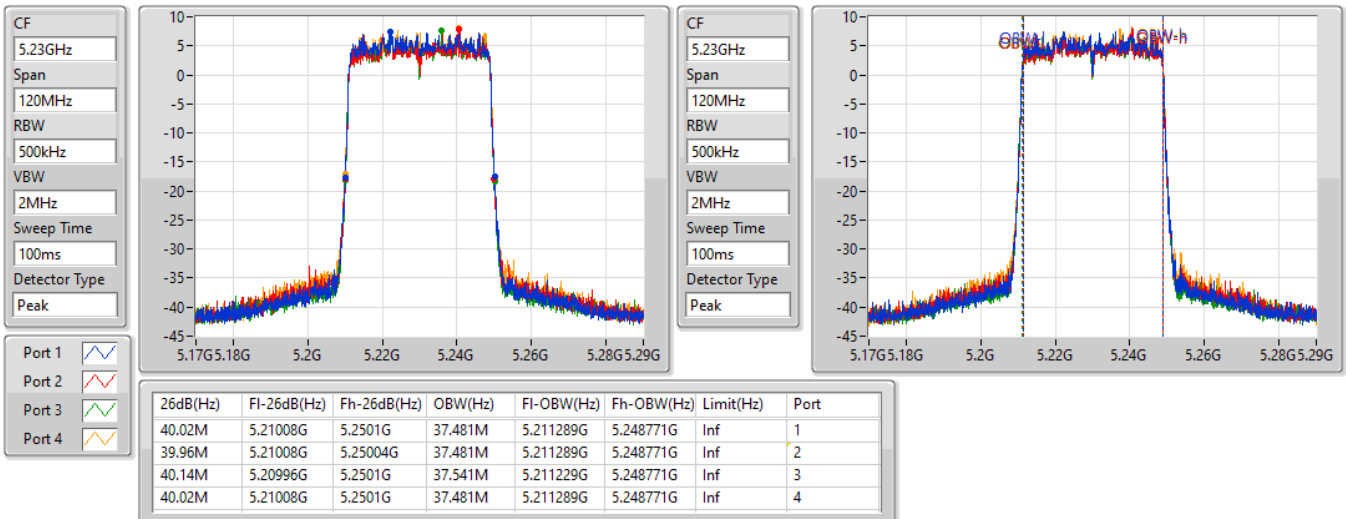


802.11ax HEW40_Nss1,(MCS0)_4TX
EBW
5190MHz

15/05/2021

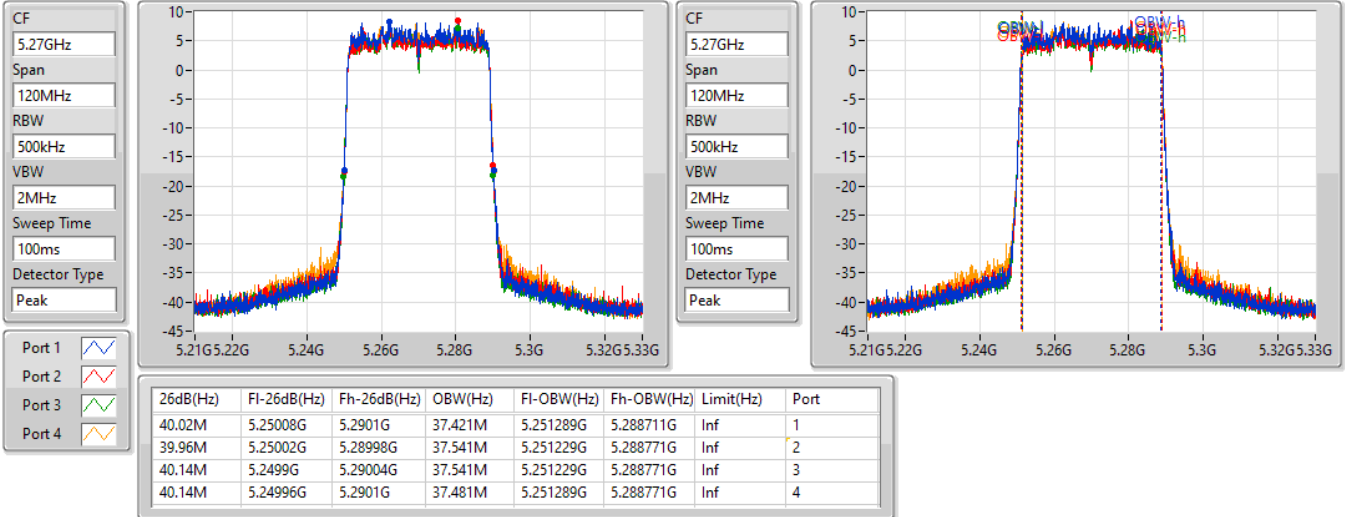

802.11ax HEW40_Nss1,(MCS0)_4TX
EBW
5230MHz

15/05/2021

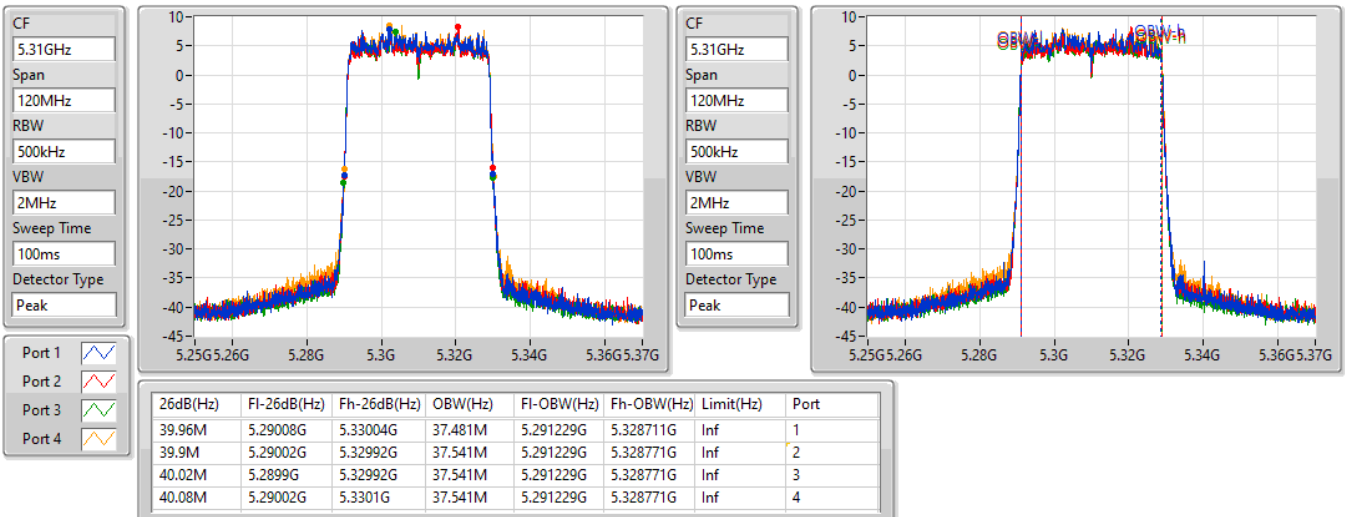


802.11ax HEW40_Nss1,(MCS0)_4TX
EBW
5270MHz

15/05/2021

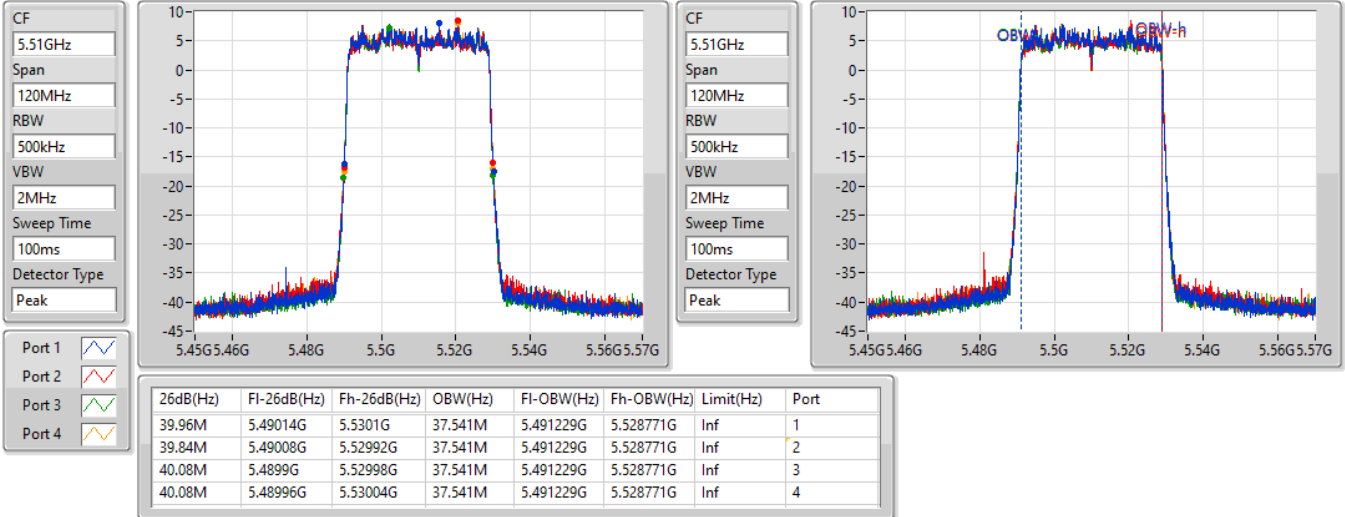

802.11ax HEW40_Nss1,(MCS0)_4TX
EBW
5310MHz

15/05/2021

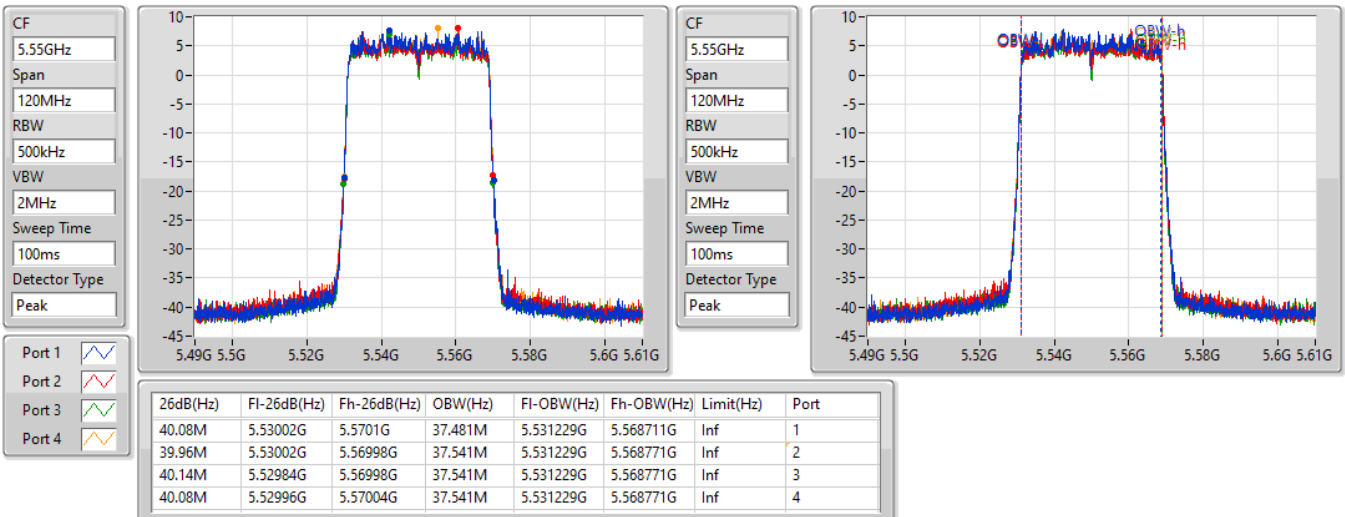


802.11ax HEW40_Nss1,(MCS0)_4TX
EBW
5510MHz

15/05/2021

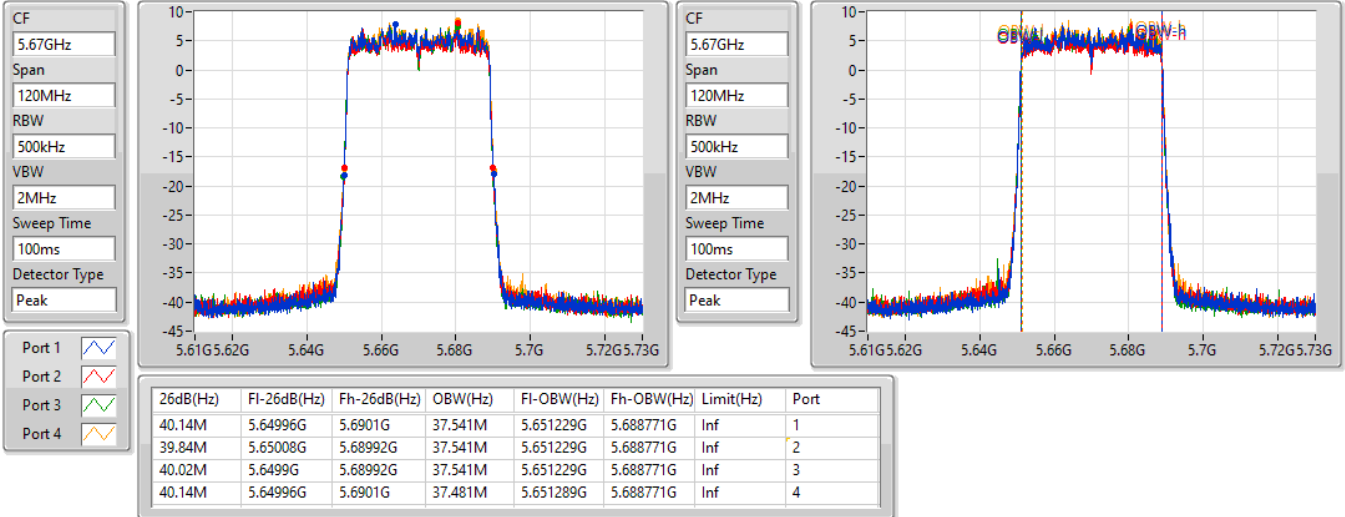

802.11ax HEW40_Nss1,(MCS0)_4TX
EBW
5550MHz

15/05/2021

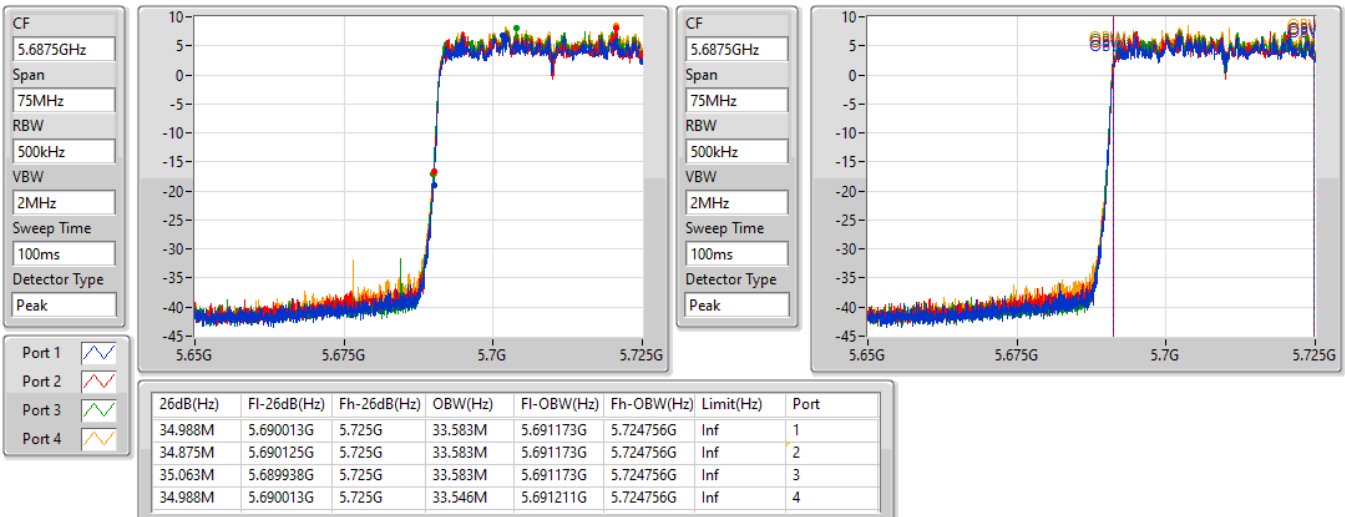


802.11ax HEW40_Nss1,(MCS0)_4TX
EBW
5670MHz

15/05/2021

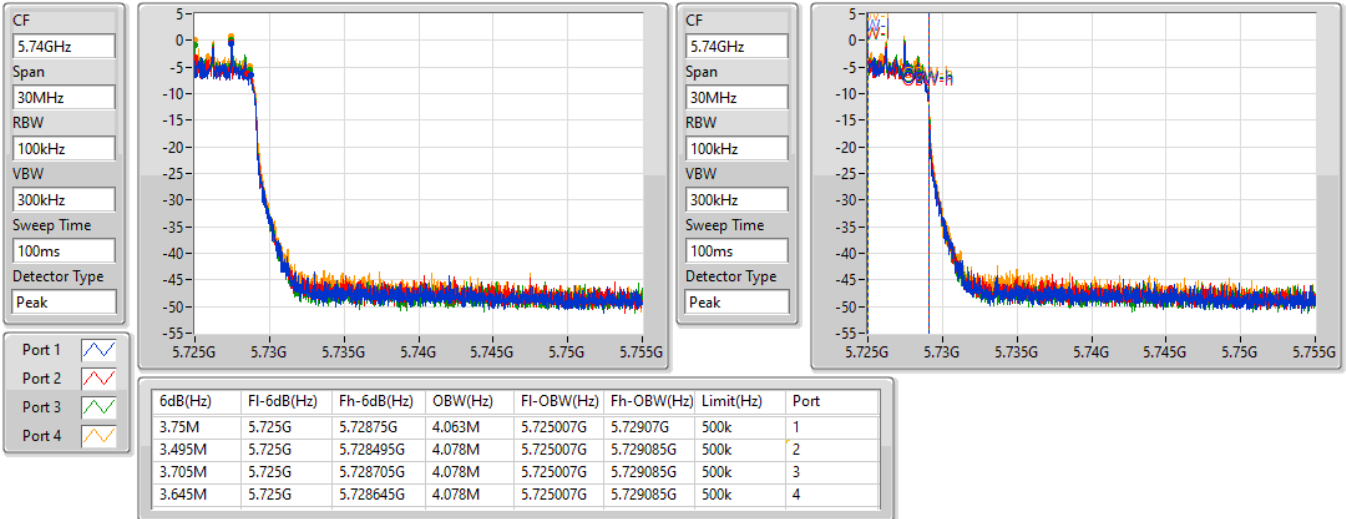

802.11ax HEW40_Nss1,(MCS0)_4TX
EBW
5710MHz Straddle 5.47-5.725GHz

12/06/2021

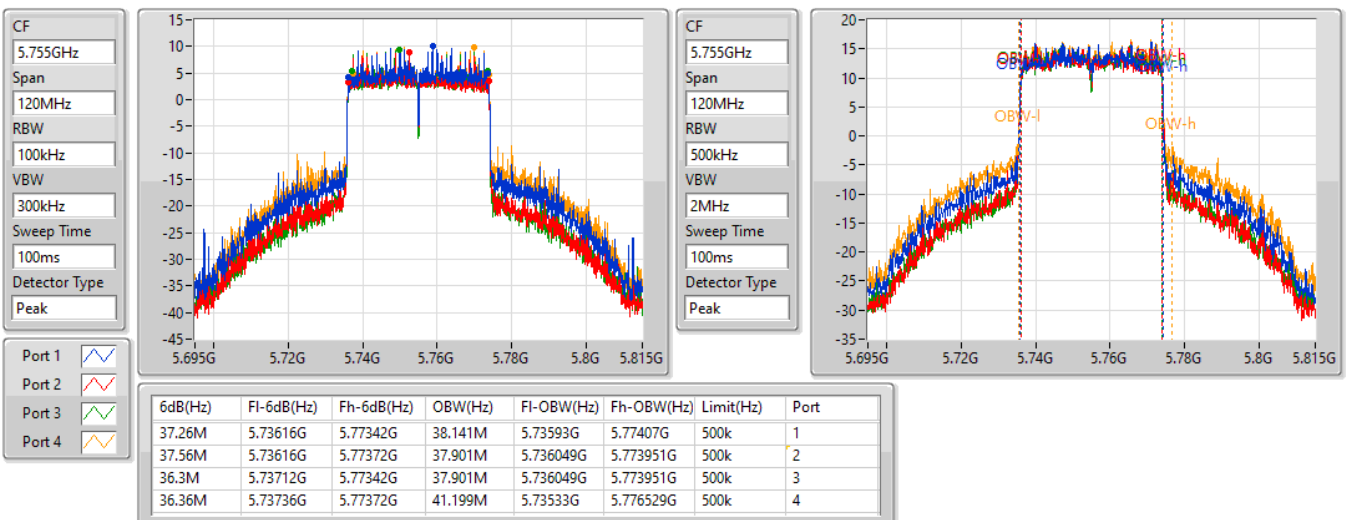


802.11ax HEW40_Nss1,(MCS0)_4TX
EBW
5710MHz Straddle 5.725-5.85GHz

12/06/2021

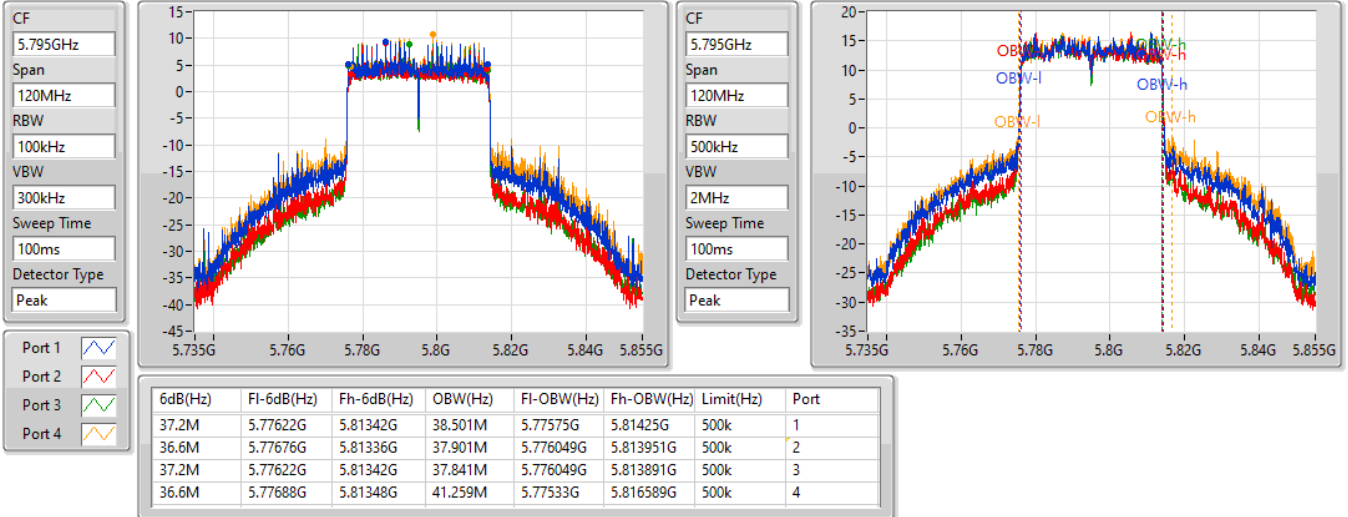

802.11ax HEW40_Nss1,(MCS0)_4TX
EBW
5755MHz

15/05/2021

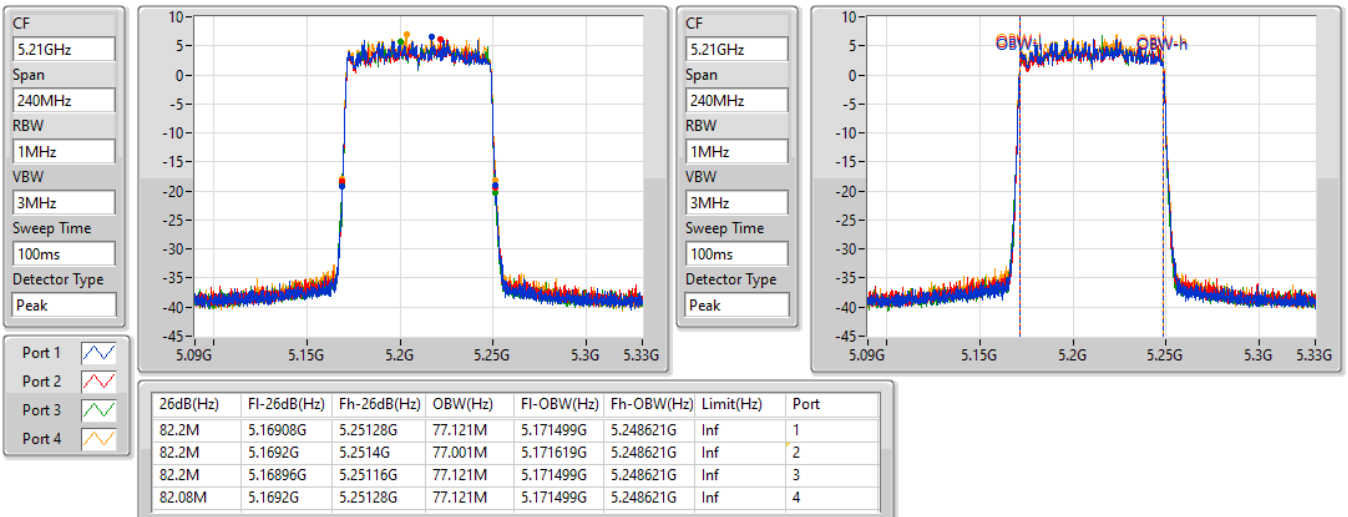


802.11ax HEW40_Nss1,(MCS0)_4TX
EBW
5795MHz

15/05/2021

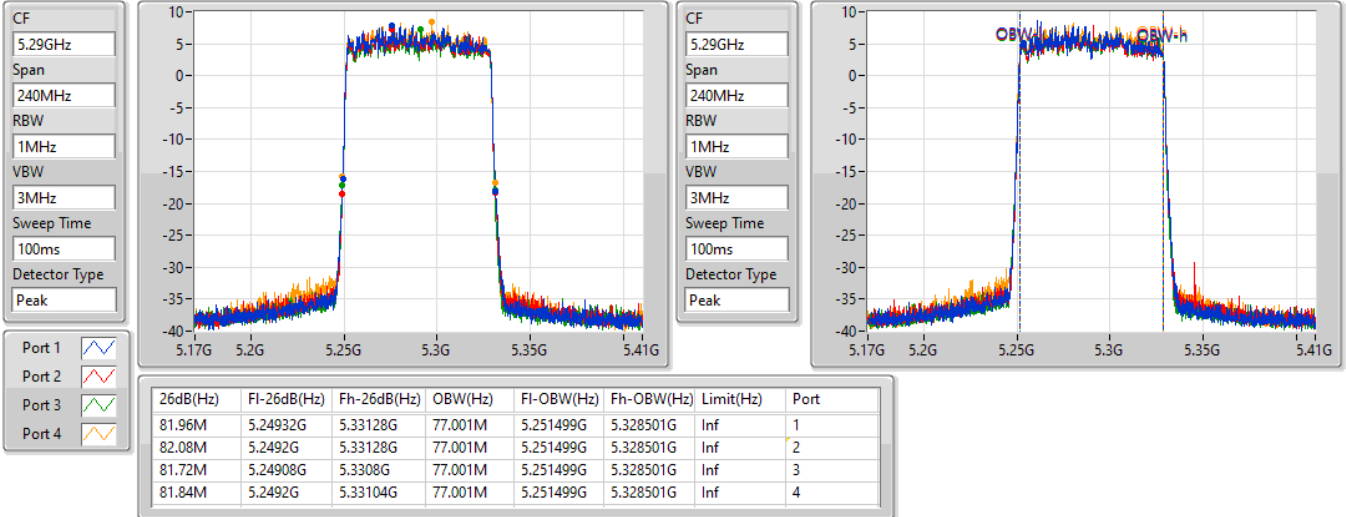

802.11ax HEW80_Nss1,(MCS0)_4TX
EBW
5210MHz

07/05/2021

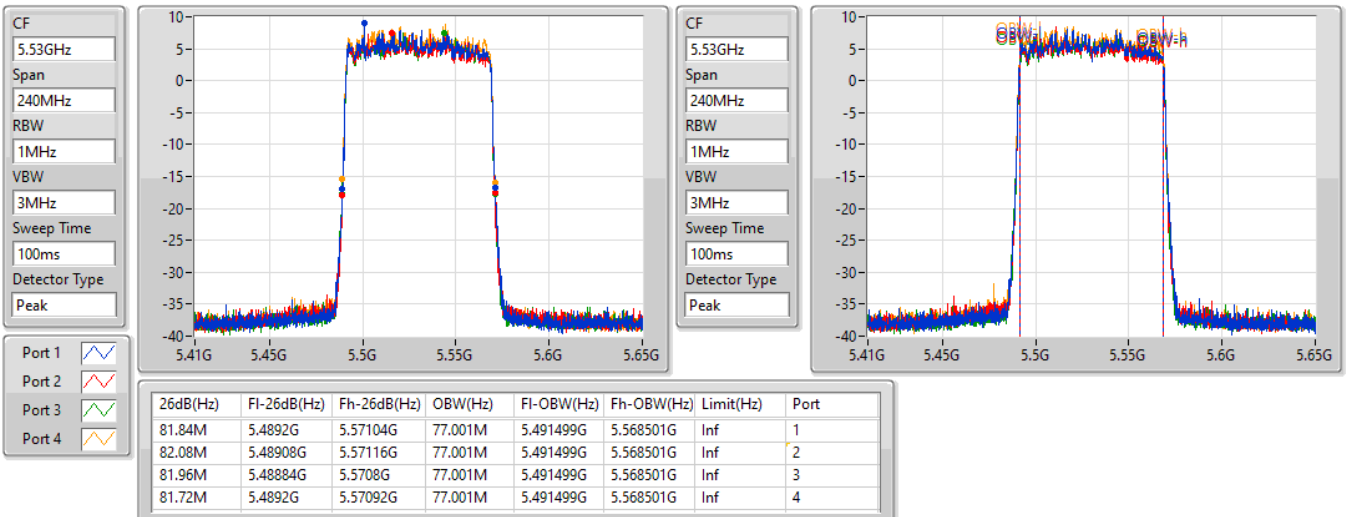


802.11ax HEW80_Nss1,(MCS0)_4TX
EBW
5290MHz

15/05/2021

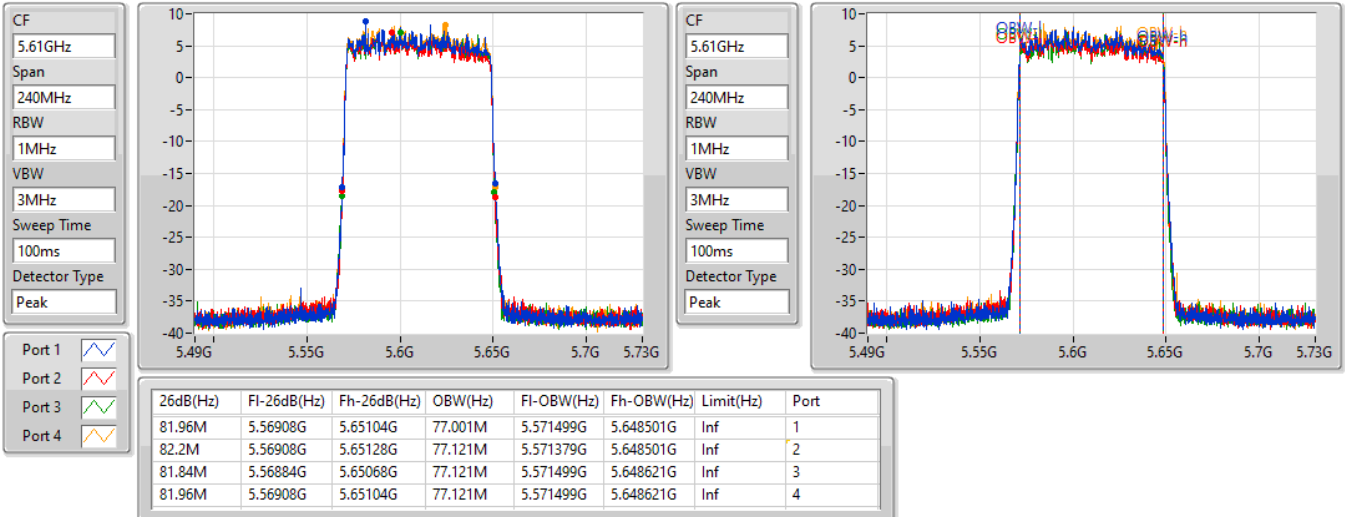

802.11ax HEW80_Nss1,(MCS0)_4TX
EBW
5530MHz

15/05/2021

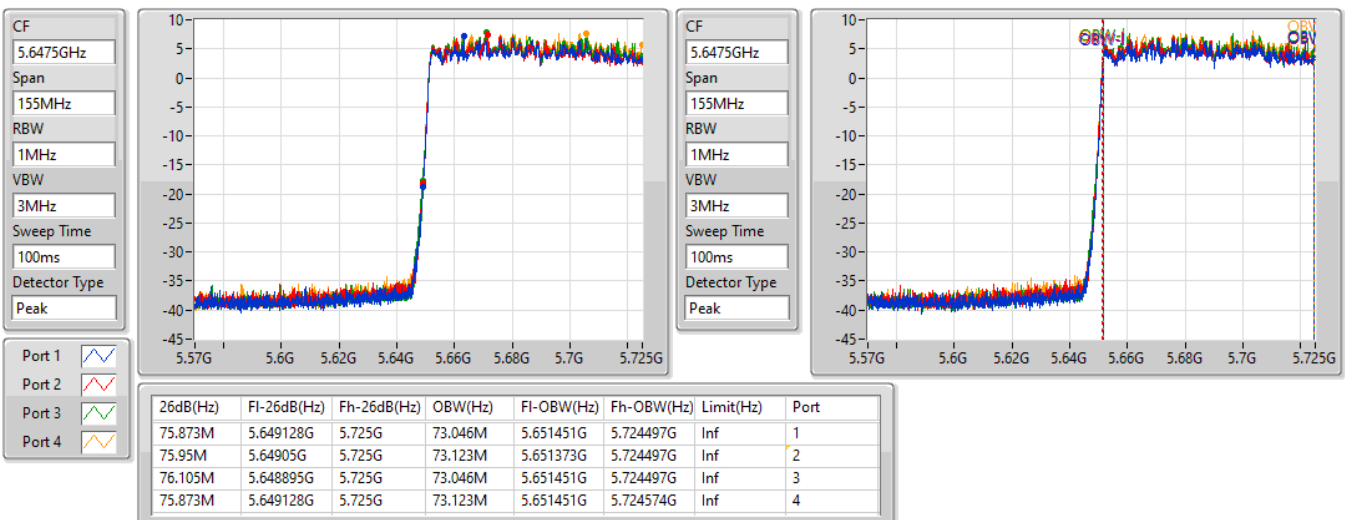


802.11ax HEW80_Nss1,(MCS0)_4TX
EBW
5610MHz

15/05/2021

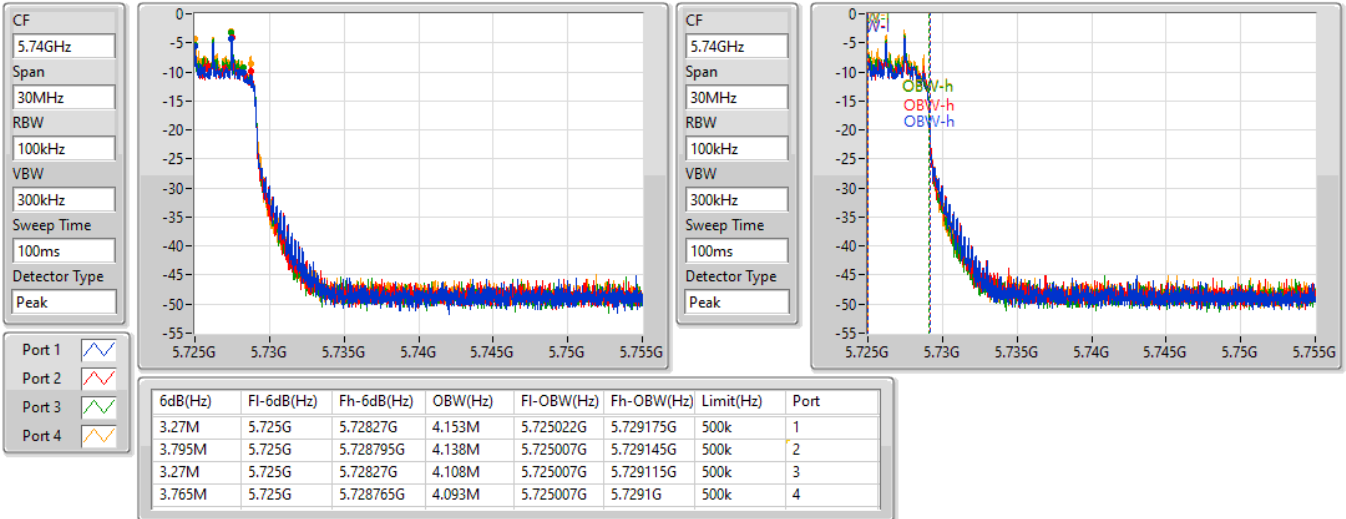

802.11ax HEW80_Nss1,(MCS0)_4TX
EBW
5690MHz Straddle 5.47-5.725GHz

12/06/2021

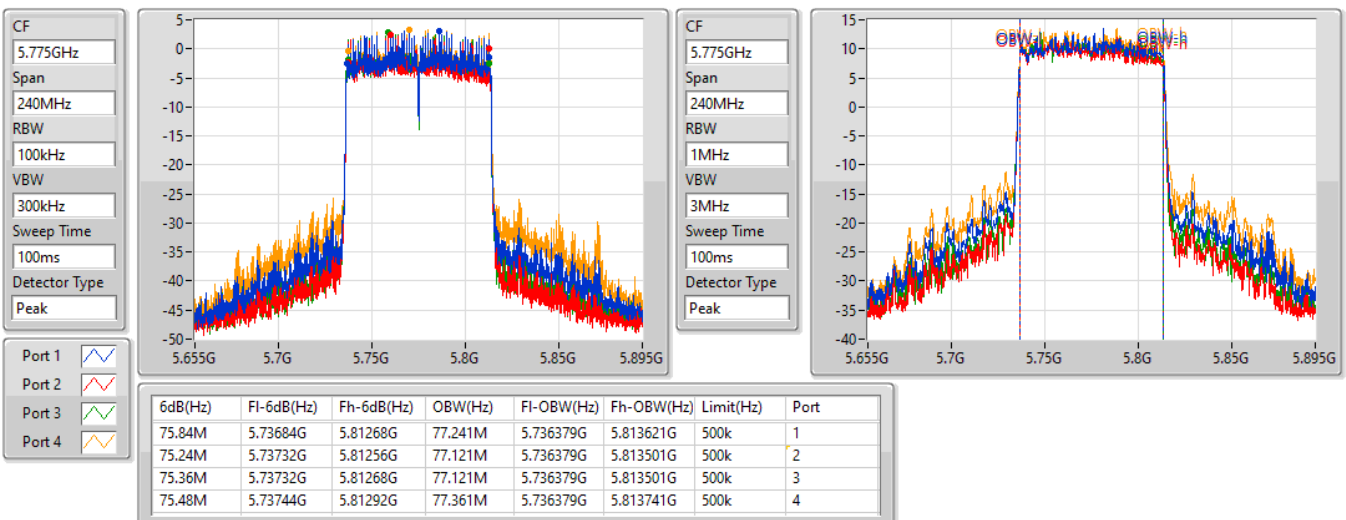


802.11ax HEW80_Nss1,(MCS0)_4TX
EBW
5690MHz Straddle 5.725-5.85GHz

12/06/2021

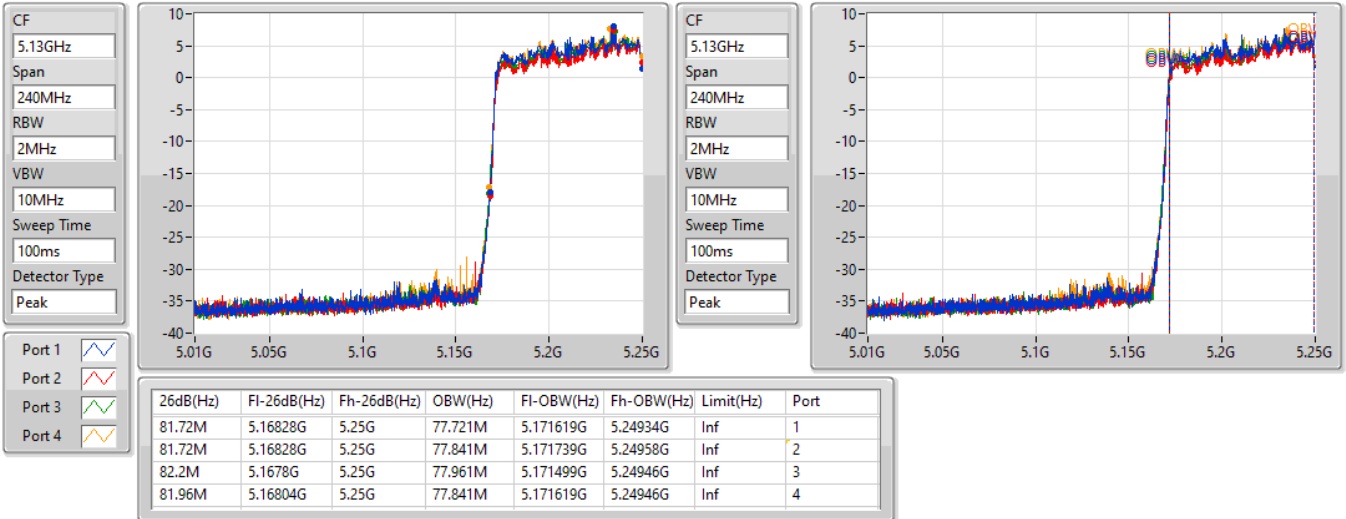

802.11ax HEW80_Nss1,(MCS0)_4TX
EBW
5775MHz

07/05/2021

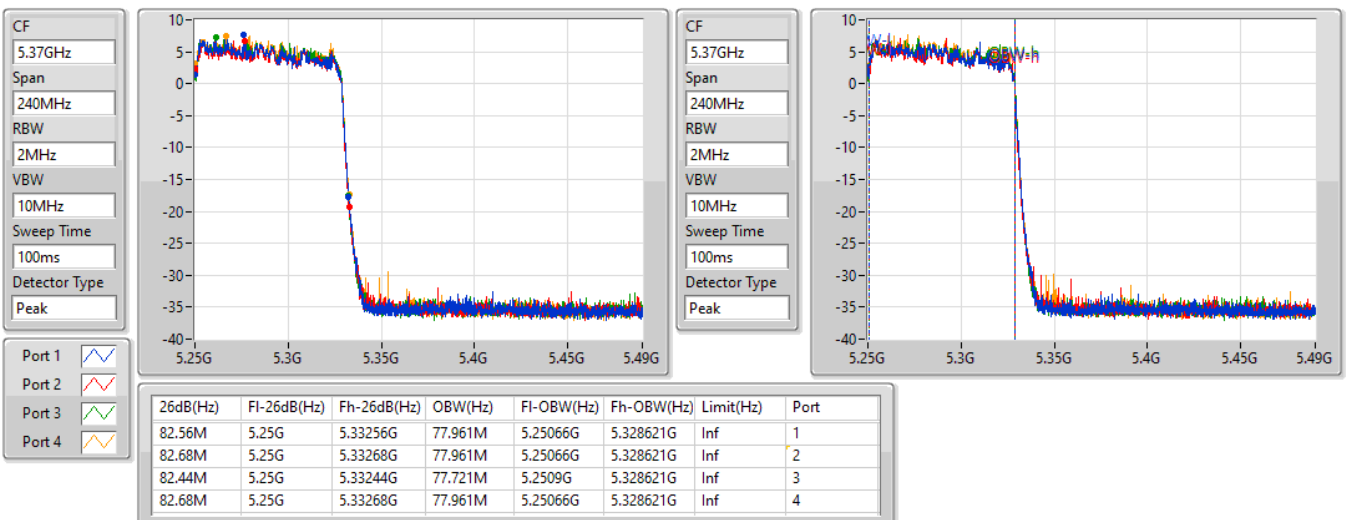


802.11ax HEW160_Nss1,(MCS0)_4TX
EBW
5250MHz Straddle 5.15-5.25GHz

07/05/2021

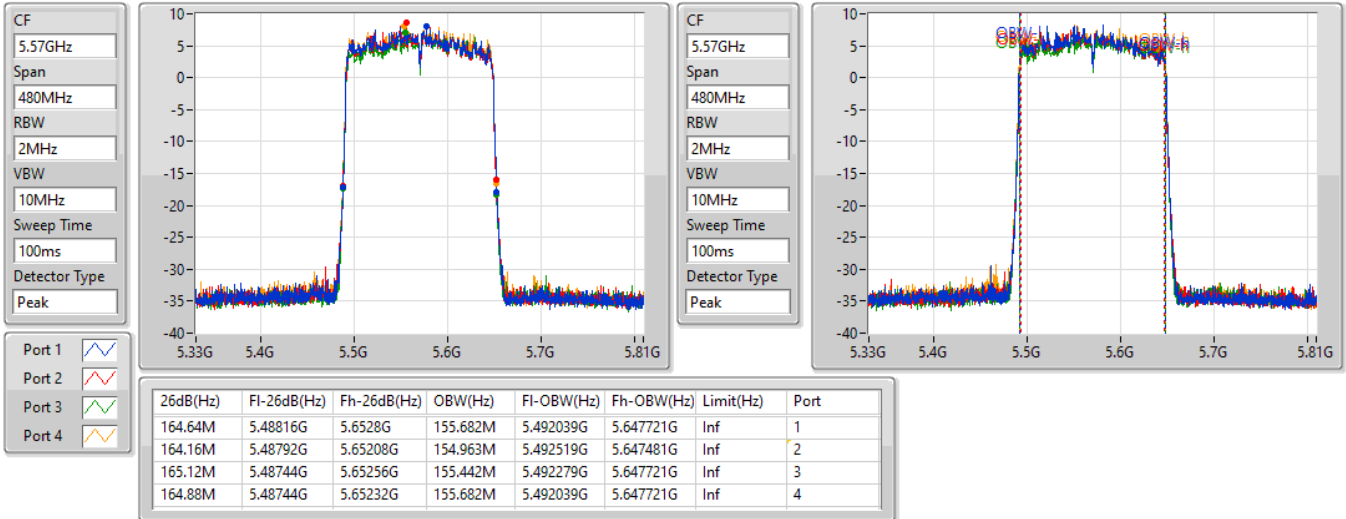

802.11ax HEW160_Nss1,(MCS0)_4TX
EBW
5250MHz Straddle 5.25-5.35GHz

07/05/2021



802.11ax HEW160_Nss1,(MCS0)_4TX
EBW
5570MHz

15/05/2021



**For Radio 3 / 4T1S / Beamforming mode
Summary**

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.15-5.25GHz	-	-	-	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	21.69M	19.1M	19M1D1D	21.33M	19.01M
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	40.2M	37.601M	37M6D1D	39.72M	37.481M
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	82.44M	77.121M	77M1D1D	82.2M	77.001M
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	82.44M	77.841M	77M8D1D	81.72M	77.721M
5.25-5.35GHz	-	-	-	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	21.66M	19.13M	19M1D1D	21.36M	19.01M
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	40.08M	37.601M	37M6D1D	39.84M	37.481M
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	82.2M	77.121M	77M1D1D	81.84M	77.001M
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	82.68M	77.961M	78M0D1D	82.2M	77.721M
5.47-5.725GHz	-	-	-	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	21.54M	19.13M	19M1D1D	15.593M	14.518M
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	40.14M	37.601M	37M6D1D	34.8M	33.058M
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	82.2M	77.001M	77M0D1D	75.873M	73.046M
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	165.12M	155.682M	156MD1D	164.16M	155.442M
5.725-5.85GHz	-	-	-	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	18.9M	21.139M	21M1D1D	4.41M	4.663M
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	37.56M	40.84M	40M8D1D	3.12M	3.523M
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	76.08M	77.361M	77M4D1D	3.255M	4.093M

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

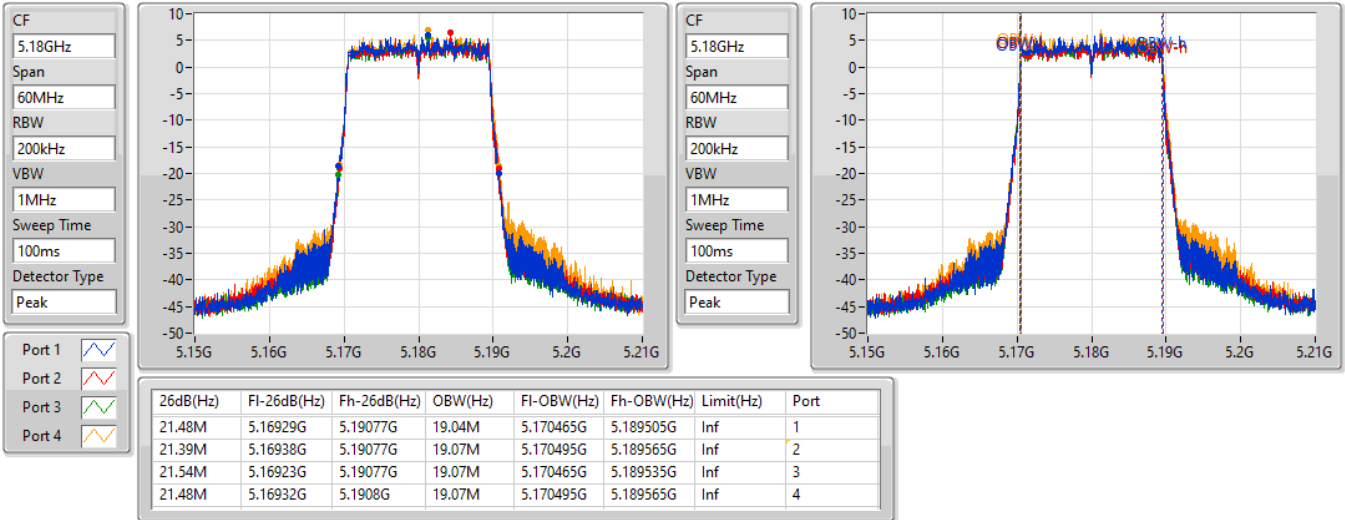
Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)	Port 3-N dB (Hz)	Port 3-OBW (Hz)	Port 4-N dB (Hz)	Port 4-OBW (Hz)
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	Inf	21.48M	19.04M	21.39M	19.07M	21.54M	19.07M	21.48M	19.07M
5200MHz	Pass	Inf	21.36M	19.04M	21.33M	19.04M	21.39M	19.04M	21.69M	19.07M
5240MHz	Pass	Inf	21.48M	19.01M	21.36M	19.04M	21.48M	19.04M	21.57M	19.1M
5260MHz	Pass	Inf	21.54M	19.04M	21.48M	19.01M	21.48M	19.1M	21.66M	19.07M
5300MHz	Pass	Inf	21.6M	19.01M	21.45M	19.04M	21.54M	19.07M	21.39M	19.13M
5320MHz	Pass	Inf	21.48M	19.04M	21.36M	19.04M	21.57M	19.04M	21.42M	19.1M
5500MHz	Pass	Inf	21.54M	19.04M	21.39M	19.04M	21.54M	19.07M	21.54M	19.13M
5580MHz	Pass	Inf	21.45M	19.01M	21.39M	19.01M	21.45M	19.07M	21.51M	19.07M
5700MHz	Pass	Inf	21.54M	18.981M	21.33M	19.07M	21.48M	19.07M	21.48M	19.07M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	15.785M	14.535M	15.593M	14.518M	15.785M	14.57M	15.785M	14.535M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	4.44M	4.663M	4.455M	4.708M	4.41M	4.693M	4.425M	4.753M
5745MHz	Pass	500k	18.72M	20.15M	18.81M	19.22M	18.84M	19.25M	18.6M	21.139M
5785MHz	Pass	500k	18.72M	19.82M	18.72M	19.19M	18.63M	19.22M	18.63M	19.88M
5825MHz	Pass	500k	18.72M	19.7M	18.9M	19.22M	18.69M	19.28M	18.72M	20.99M
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	Inf	39.9M	37.481M	39.72M	37.541M	40.08M	37.601M	40.2M	37.541M
5230MHz	Pass	Inf	40.14M	37.481M	39.9M	37.541M	40.2M	37.541M	40.14M	37.481M
5270MHz	Pass	Inf	40.02M	37.601M	39.9M	37.481M	40.08M	37.541M	40.08M	37.481M
5310MHz	Pass	Inf	40.02M	37.541M	39.84M	37.541M	39.9M	37.541M	40.08M	37.541M
5510MHz	Pass	Inf	39.9M	37.541M	39.96M	37.541M	40.14M	37.541M	40.14M	37.541M
5550MHz	Pass	Inf	40.08M	37.541M	40.02M	37.541M	40.08M	37.541M	40.14M	37.601M
5670MHz	Pass	Inf	40.08M	37.541M	39.9M	37.541M	40.08M	37.541M	40.08M	37.541M
5710MHz Straddle 5.47-5.725GHz	Pass	Inf	35.175M	33.133M	34.8M	33.058M	34.988M	33.096M	34.988M	33.058M
5710MHz Straddle 5.725-5.85GHz	Pass	500k	3.12M	3.658M	3.135M	3.553M	3.12M	3.538M	3.12M	3.523M
5755MHz	Pass	500k	37.2M	38.261M	37.56M	37.841M	37.26M	37.901M	36.78M	38.681M
5795MHz	Pass	500k	37.2M	38.261M	37.26M	37.961M	37.26M	37.961M	36.84M	40.84M
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	Inf	82.2M	77.001M	82.2M	77.001M	82.2M	77.121M	82.44M	77.121M
5290MHz	Pass	Inf	82.2M	77.001M	82.2M	77.121M	81.84M	77.001M	82.08M	77.001M
5530MHz	Pass	Inf	82.2M	77.001M	81.96M	77.001M	81.96M	77.001M	81.84M	77.001M
5610MHz	Pass	Inf	82.08M	77.001M	81.72M	77.001M	82.08M	77.001M	81.84M	77.001M
5690MHz Straddle 5.47-5.725GHz	Pass	Inf	75.873M	73.046M	75.873M	73.123M	76.183M	73.046M	75.873M	73.201M
5690MHz Straddle 5.725-5.85GHz	Pass	500k	3.255M	4.183M	3.78M	4.123M	3.27M	4.093M	3.765M	4.093M
5775MHz	Pass	500k	76.08M	77.241M	75.48M	77.121M	76.08M	77.121M	75.12M	77.361M
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	Inf	81.72M	77.721M	81.72M	77.841M	82.44M	77.841M	82.2M	77.841M
5250MHz Straddle 5.25-5.35GHz	Pass	Inf	82.44M	77.841M	82.68M	77.961M	82.56M	77.721M	82.2M	77.961M
5570MHz	Pass	Inf	164.4M	155.682M	164.88M	155.442M	165.12M	155.442M	164.16M	155.442M

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

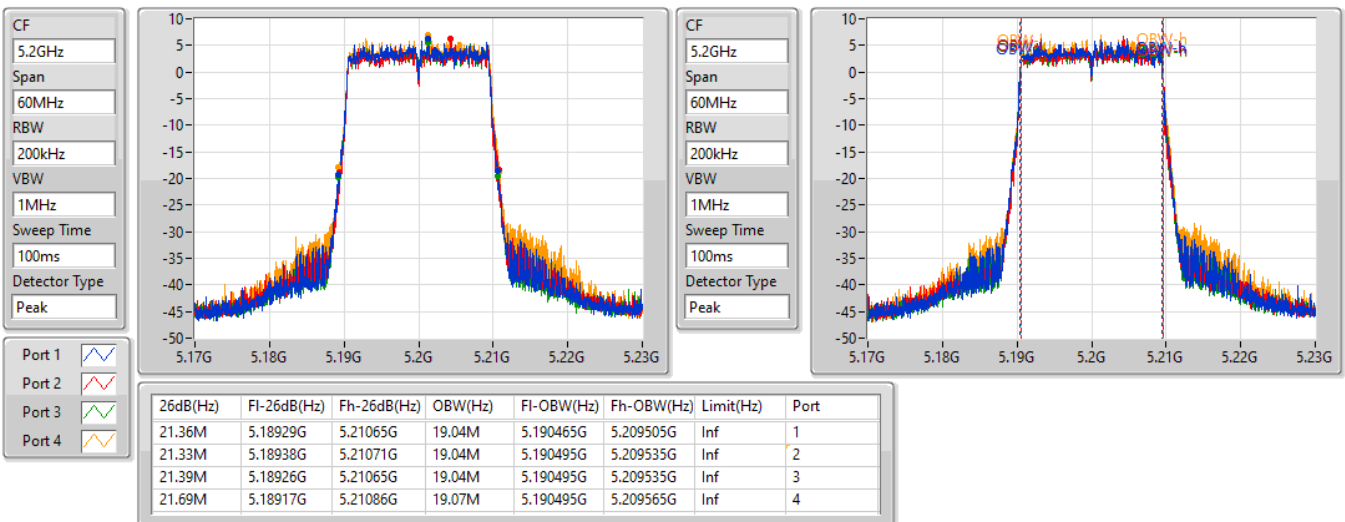
Port X-OBW = Port X 99% occupied bandwidth;

802.11ax HEW20-BF_Nss1,(MCS0)_4TX
EBW
5180MHz

15/05/2021

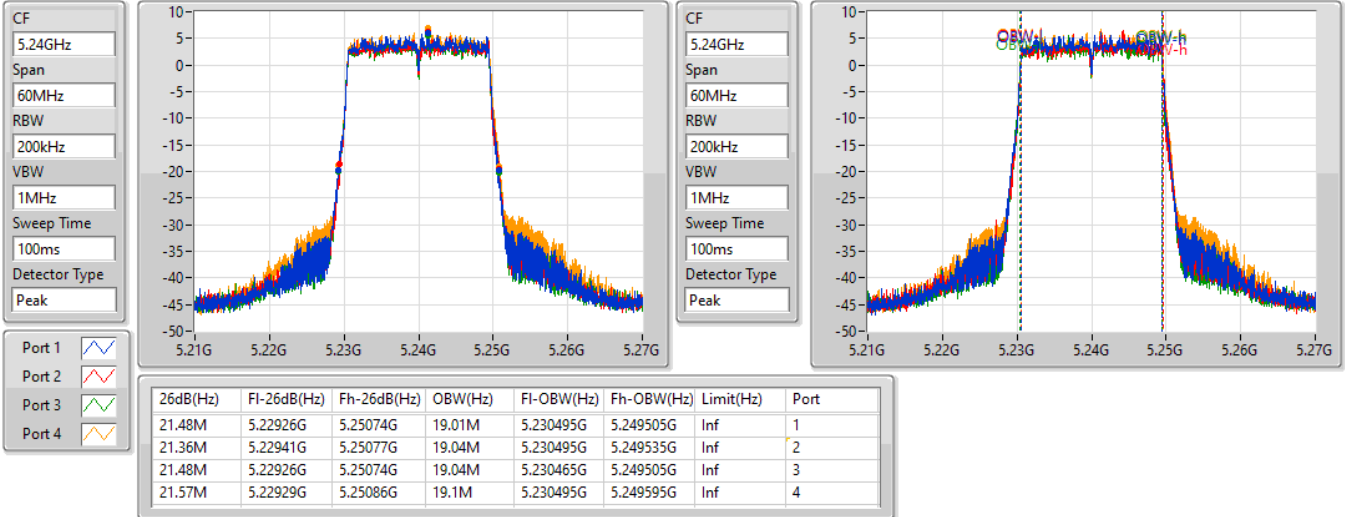

802.11ax HEW20-BF_Nss1,(MCS0)_4TX
EBW
5200MHz

15/05/2021

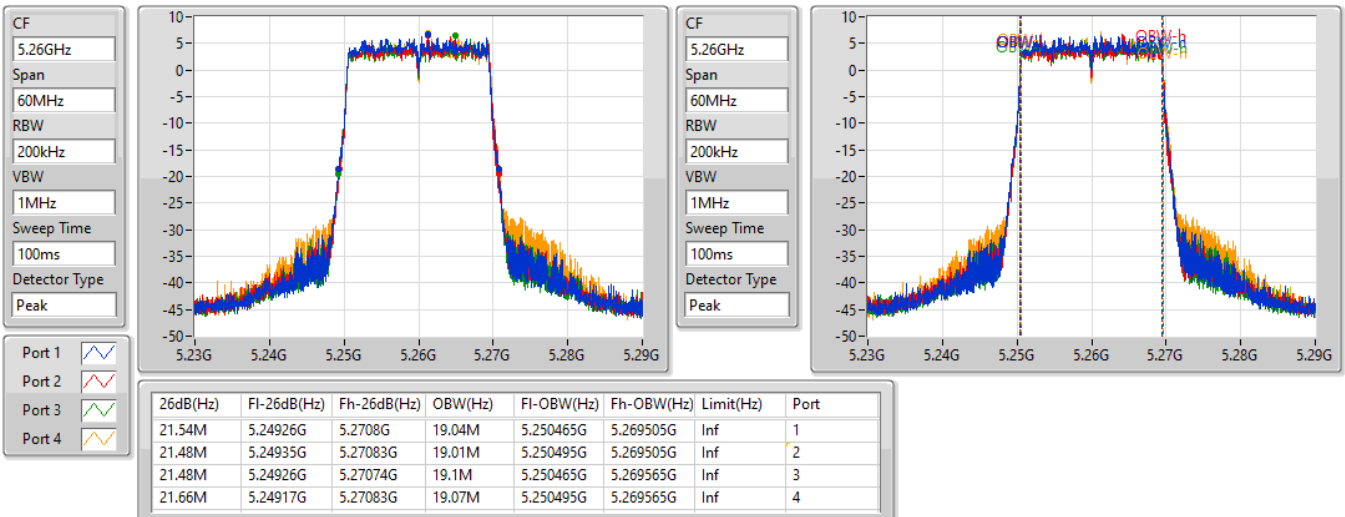


802.11ax HEW20-BF_Nss1,(MCS0)_4TX
EBW
5240MHz

15/05/2021

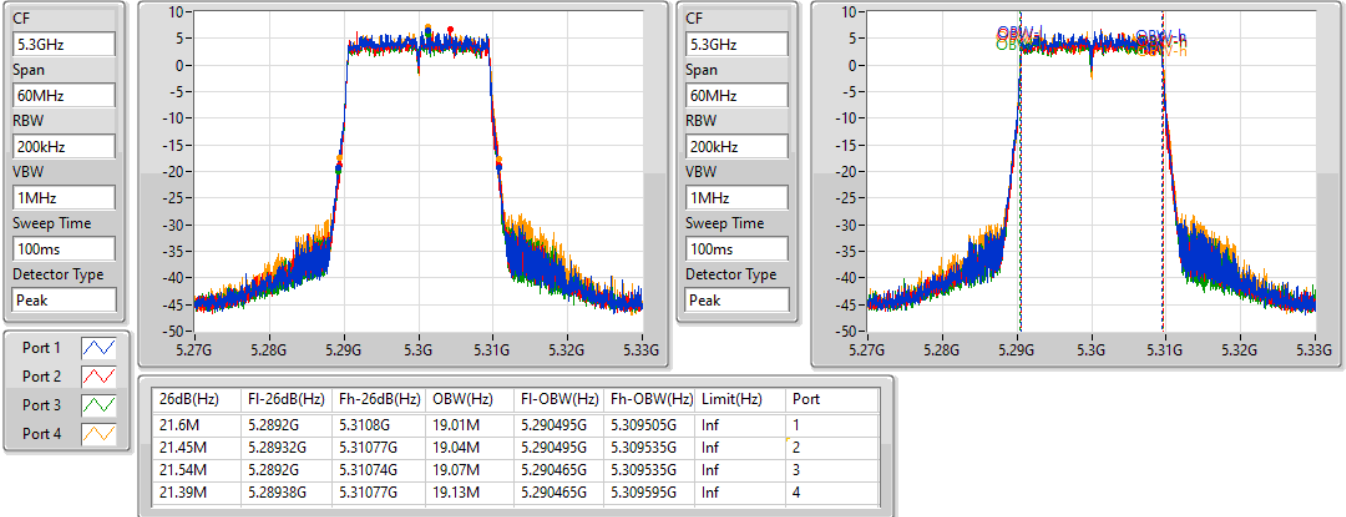

802.11ax HEW20-BF_Nss1,(MCS0)_4TX
EBW
5260MHz

15/05/2021

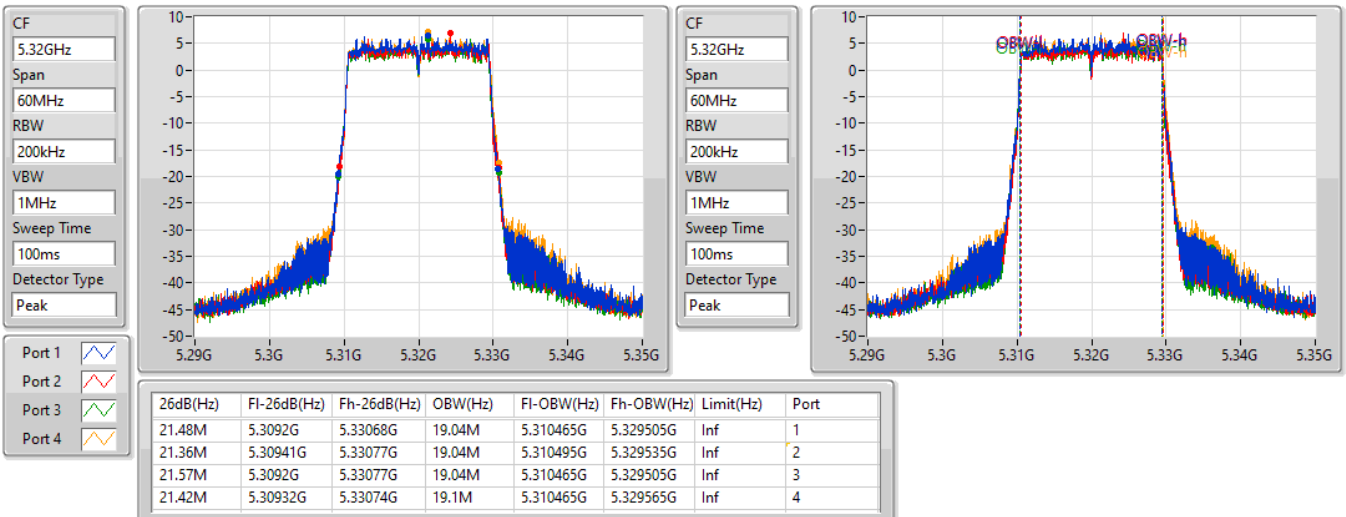


802.11ax HEW20-BF_Nss1,(MCS0)_4TX
EBW
5300MHz

15/05/2021

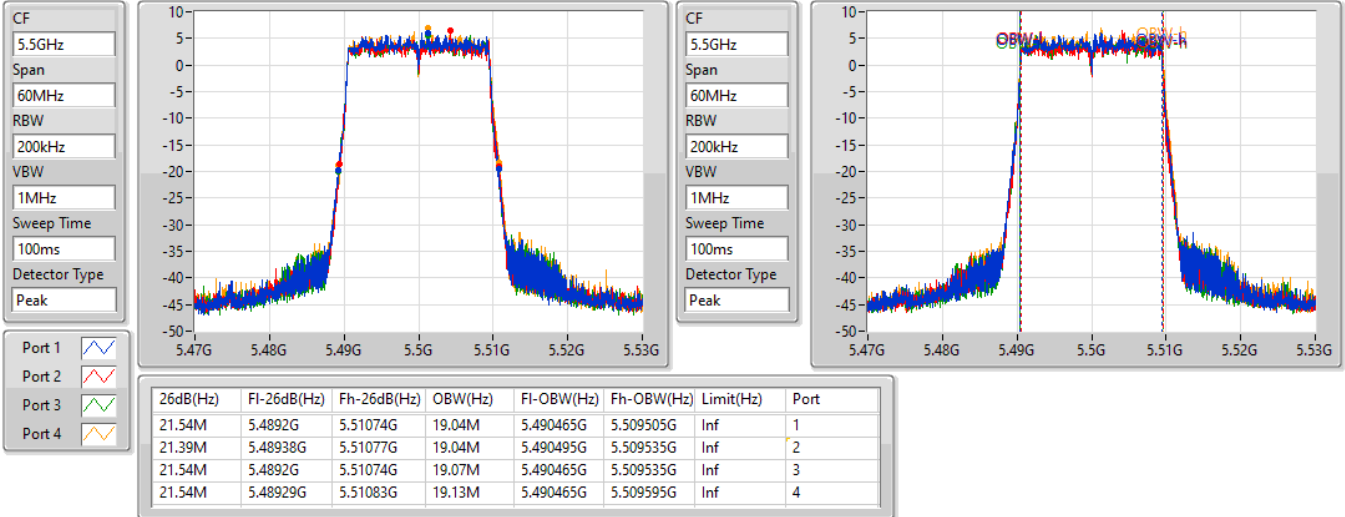

802.11ax HEW20-BF_Nss1,(MCS0)_4TX
EBW
5320MHz

15/05/2021

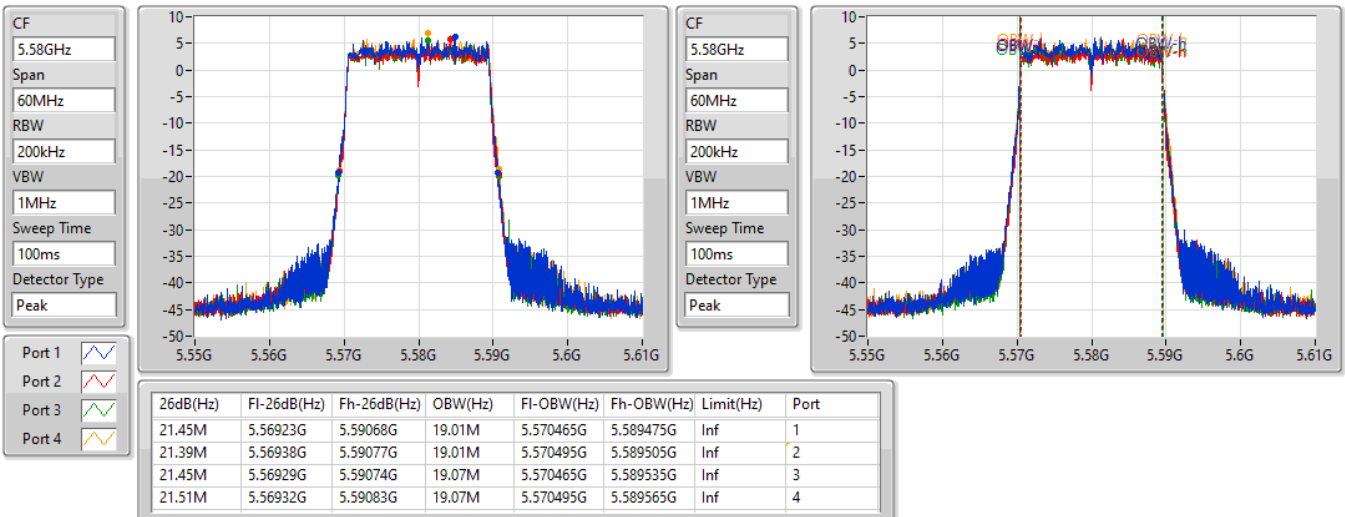


802.11ax HEW20-BF_Nss1,(MCS0)_4TX
EBW
5500MHz

15/05/2021


802.11ax HEW20-BF_Nss1,(MCS0)_4TX
EBW
5580MHz

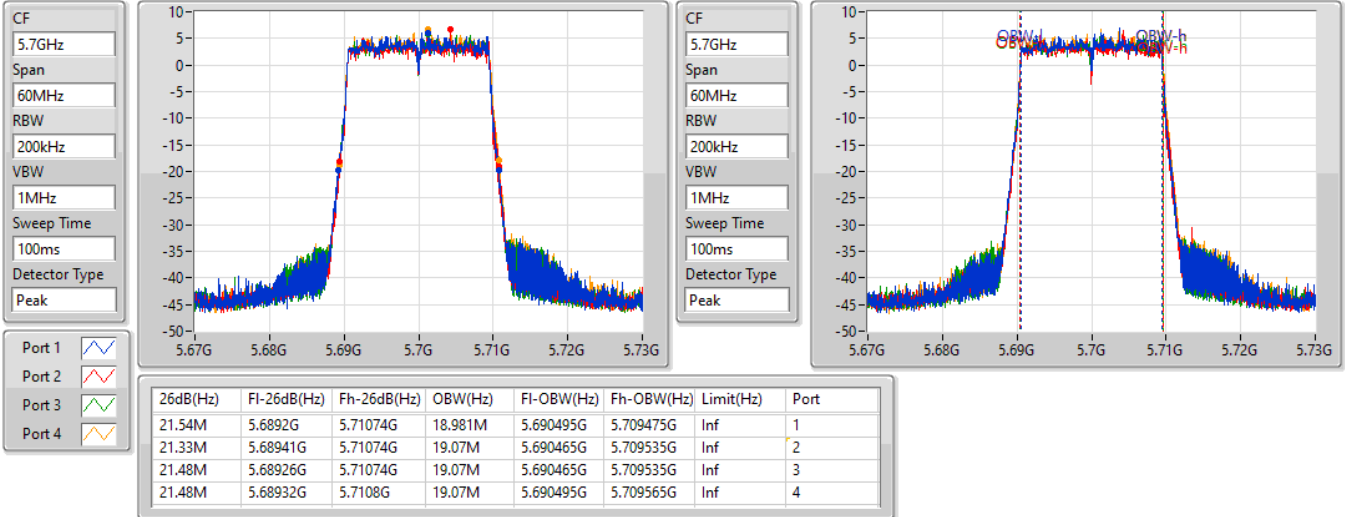
15/05/2021



802.11ax HEW20-BF_Nss1,(MCS0)_4TX

EBW
5700MHz

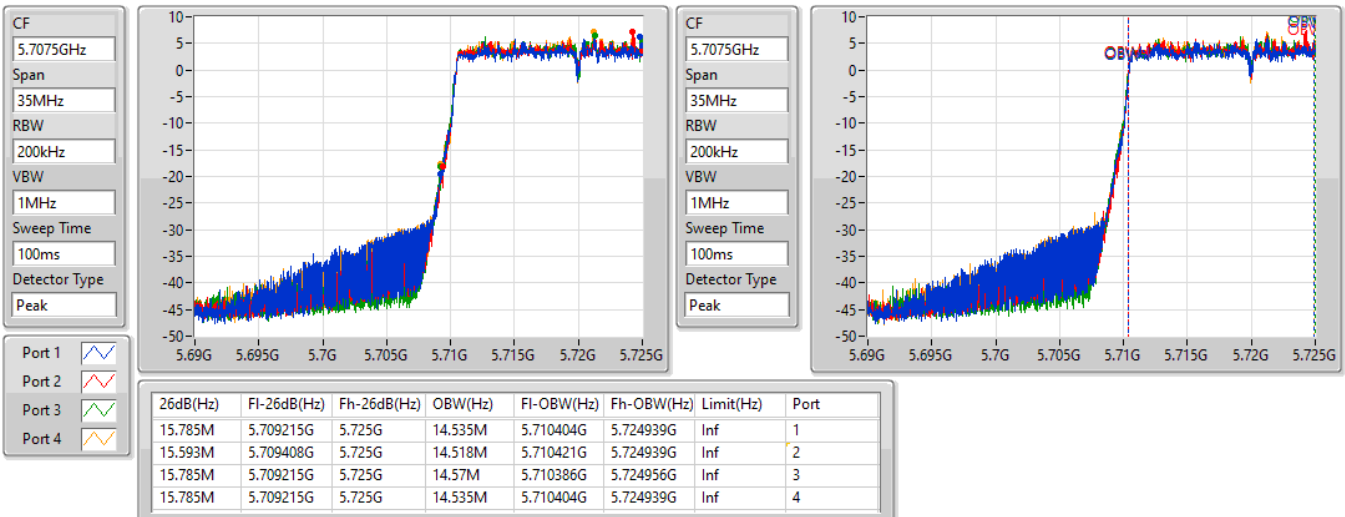
15/05/2021



802.11ax HEW20-BF_Nss1,(MCS0)_4TX

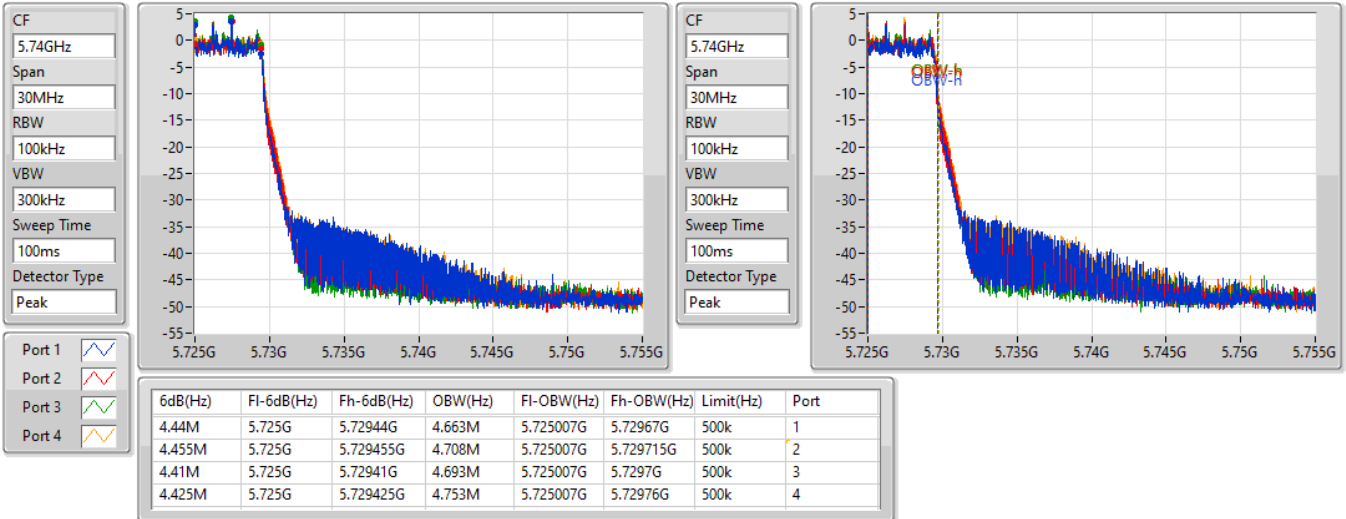
EBW
5720MHz Straddle 5.47-5.725GHz

12/06/2021

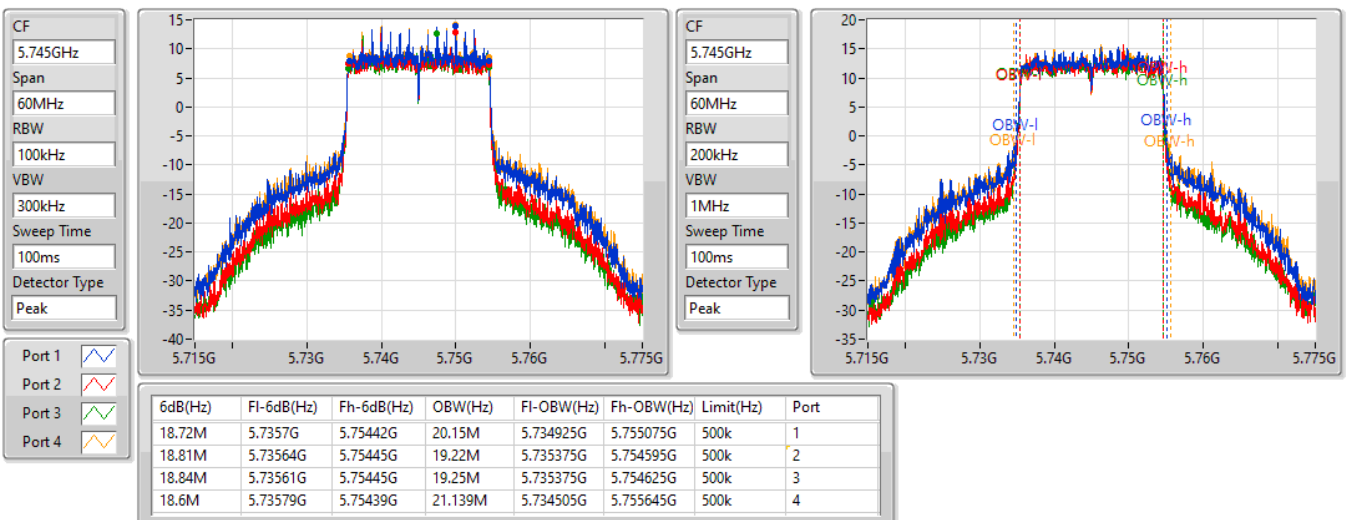


802.11ax HEW20-BF_Nss1,(MCS0)_4TX
EBW
5720MHz Straddle 5.725-5.85GHz

12/06/2021

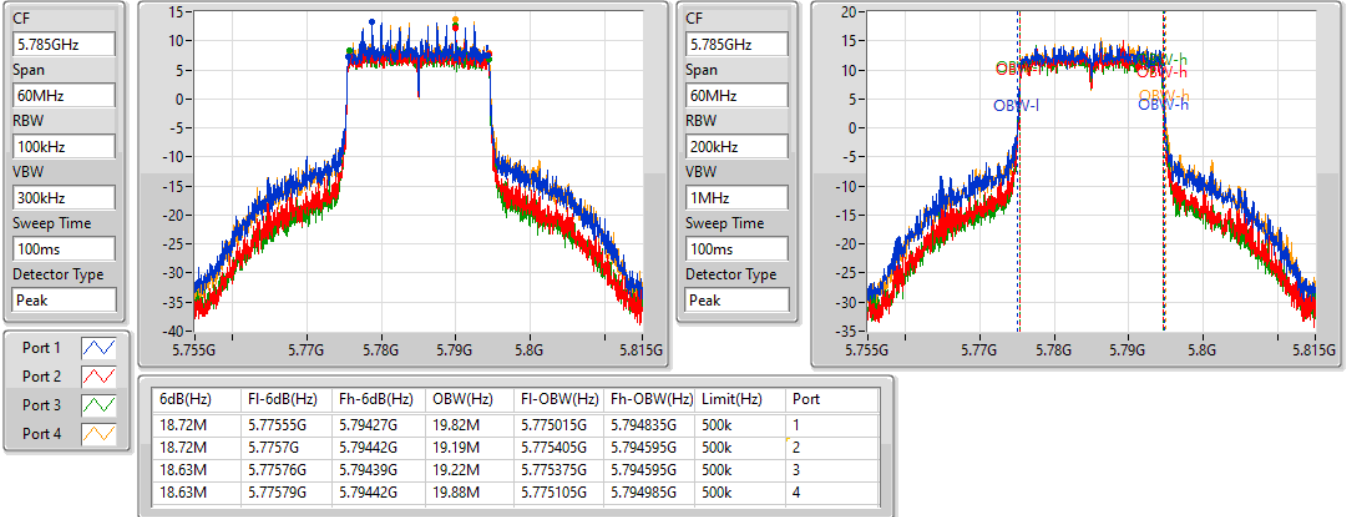

802.11ax HEW20-BF_Nss1,(MCS0)_4TX
EBW
5745MHz

15/05/2021

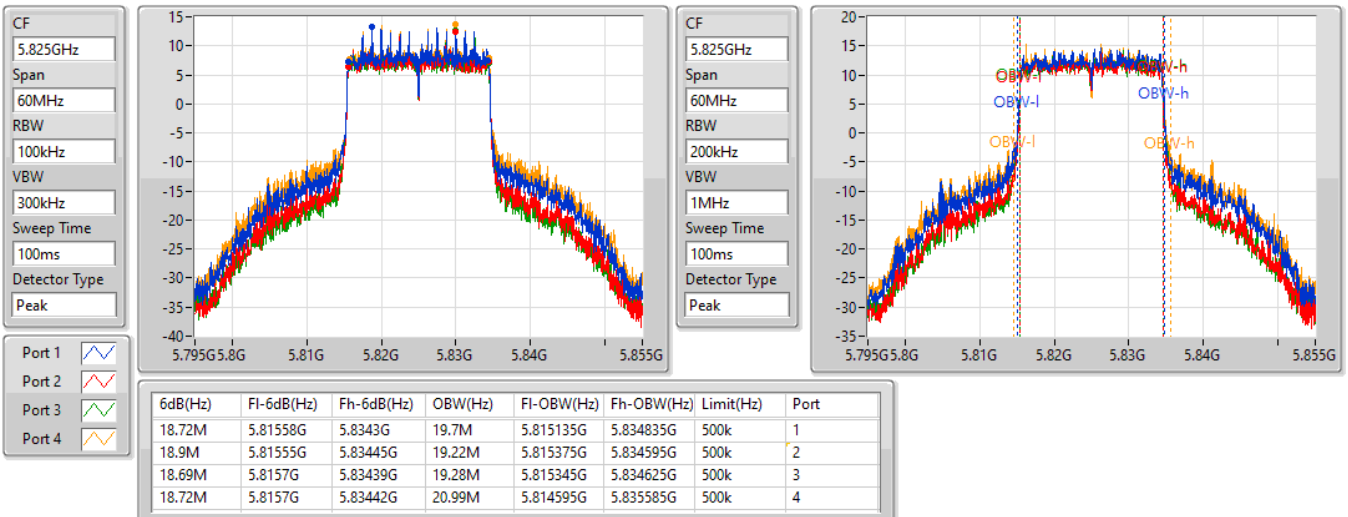


802.11ax HEW20-BF_Nss1,(MCS0)_4TX
EBW
5785MHz

15/05/2021

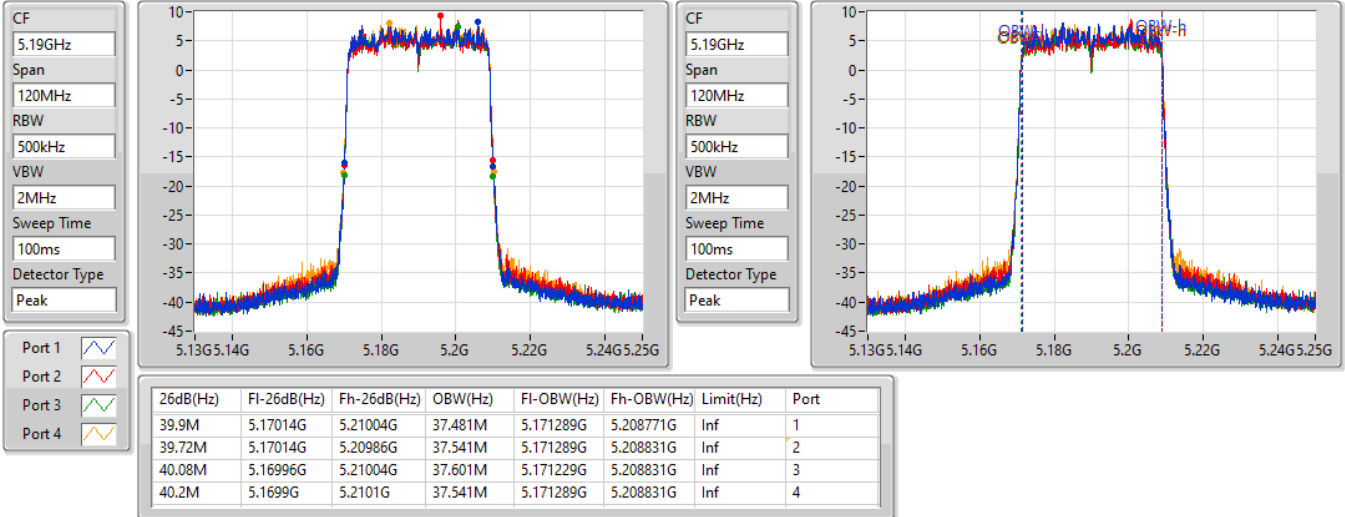

802.11ax HEW20-BF_Nss1,(MCS0)_4TX
EBW
5825MHz

15/05/2021

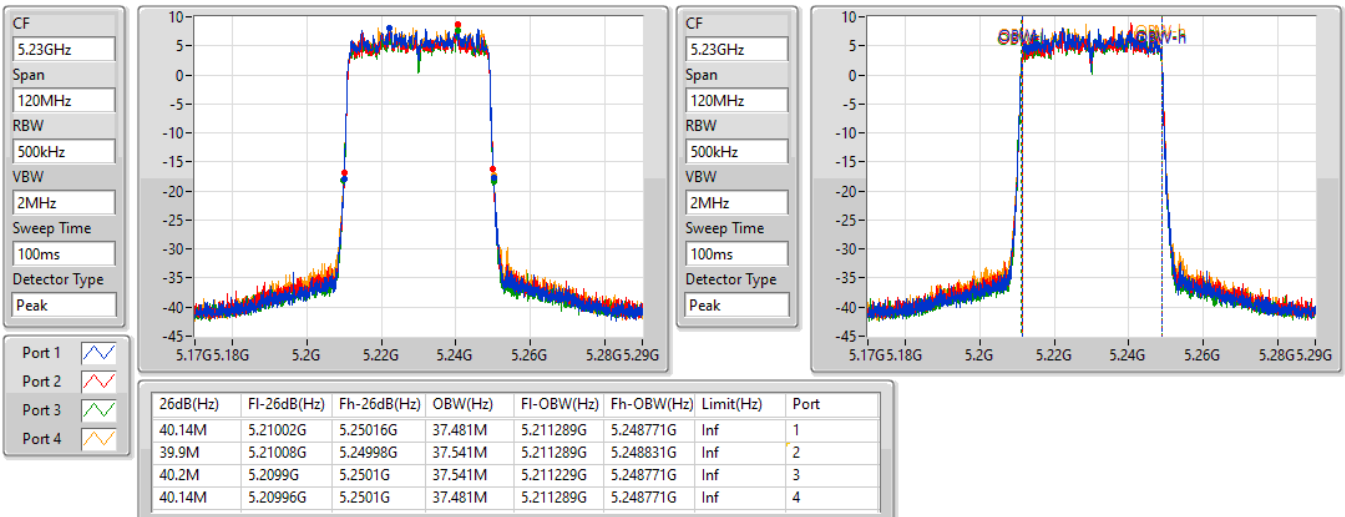


802.11ax HEW40-BF_Nss1,(MCS0)_4TX
EBW
5190MHz

15/05/2021

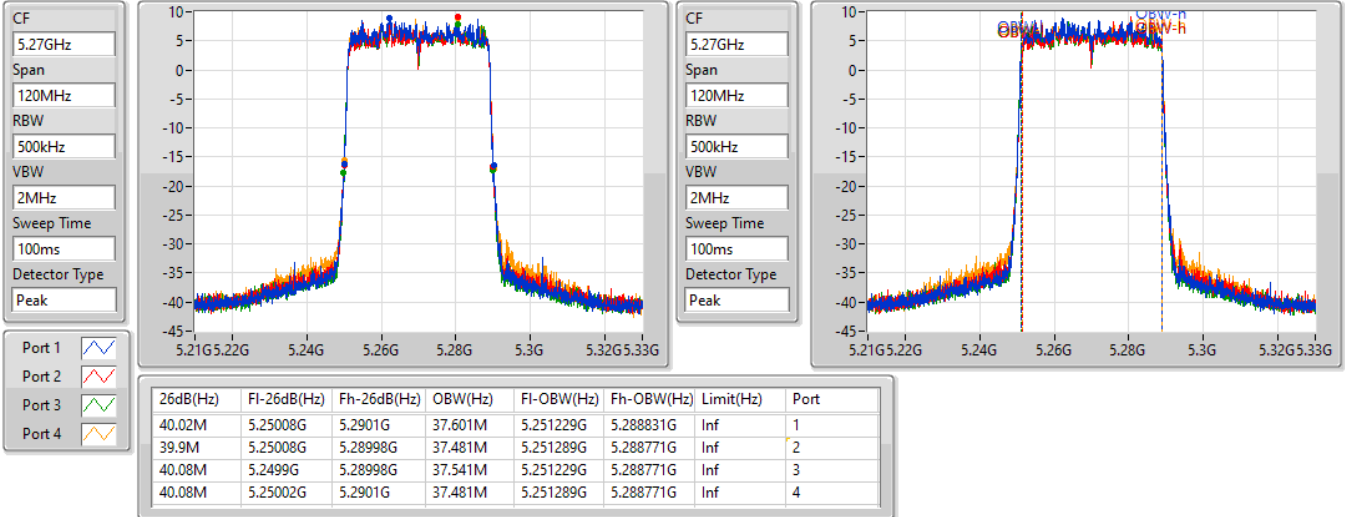

802.11ax HEW40-BF_Nss1,(MCS0)_4TX
EBW
5230MHz

15/05/2021

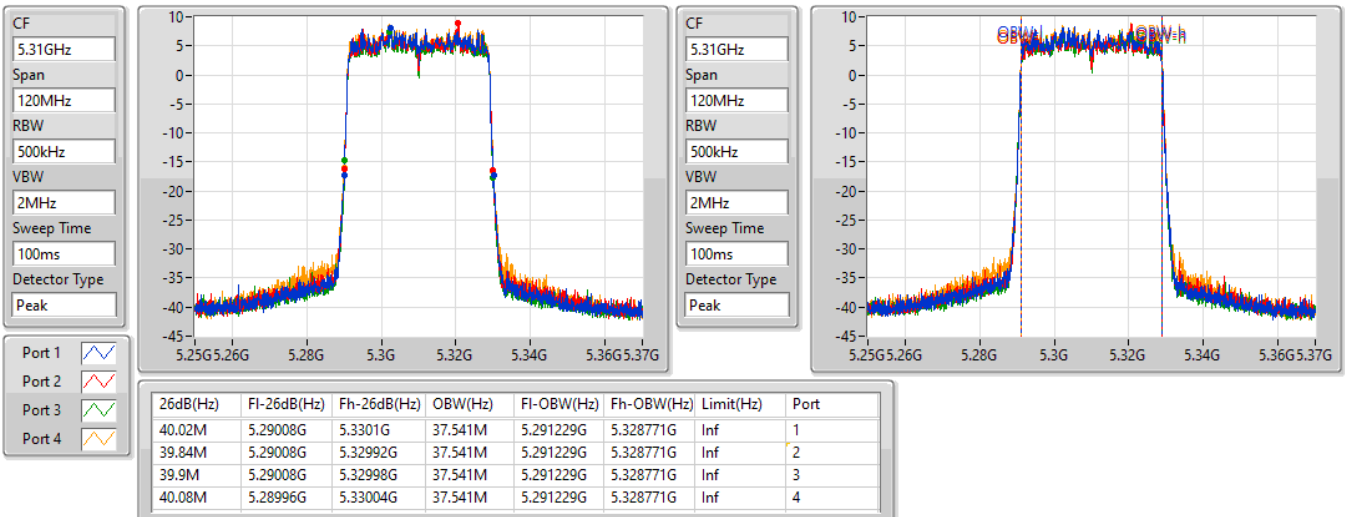


802.11ax HEW40-BF_Nss1,(MCS0)_4TX
EBW
5270MHz

15/05/2021

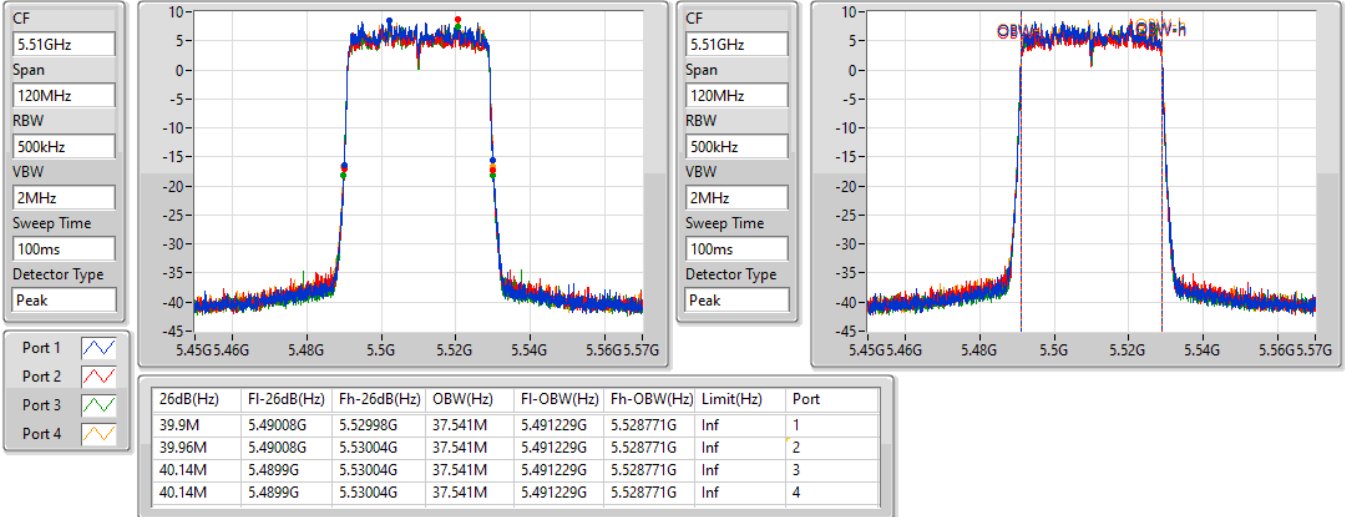

802.11ax HEW40-BF_Nss1,(MCS0)_4TX
EBW
5310MHz

15/05/2021

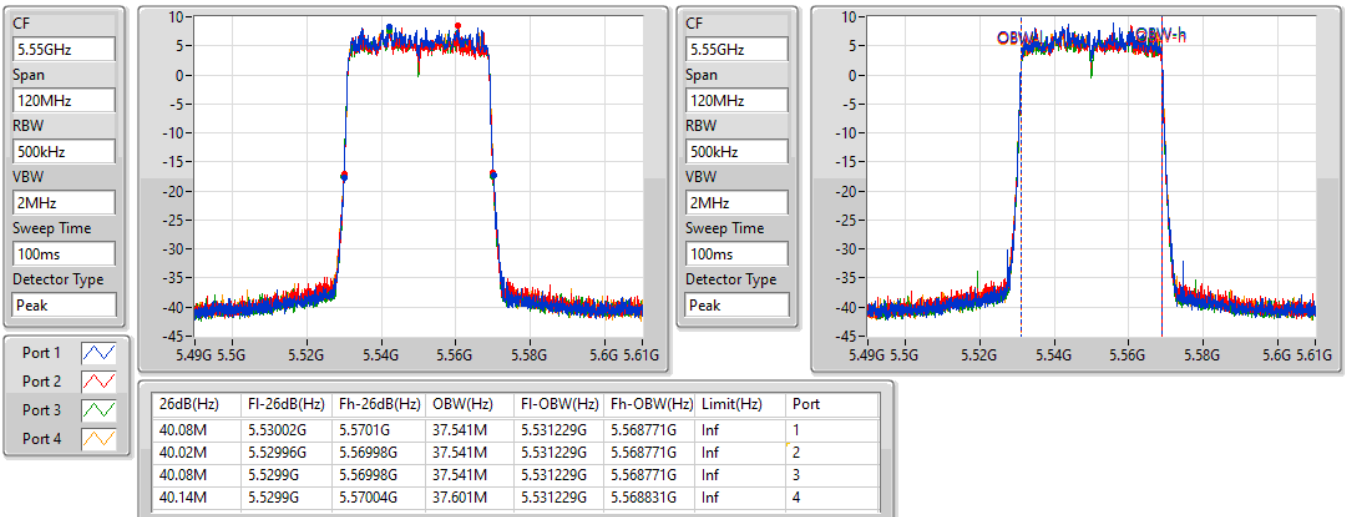


802.11ax HEW40-BF_Nss1,(MCS0)_4TX
EBW
5510MHz

15/05/2021

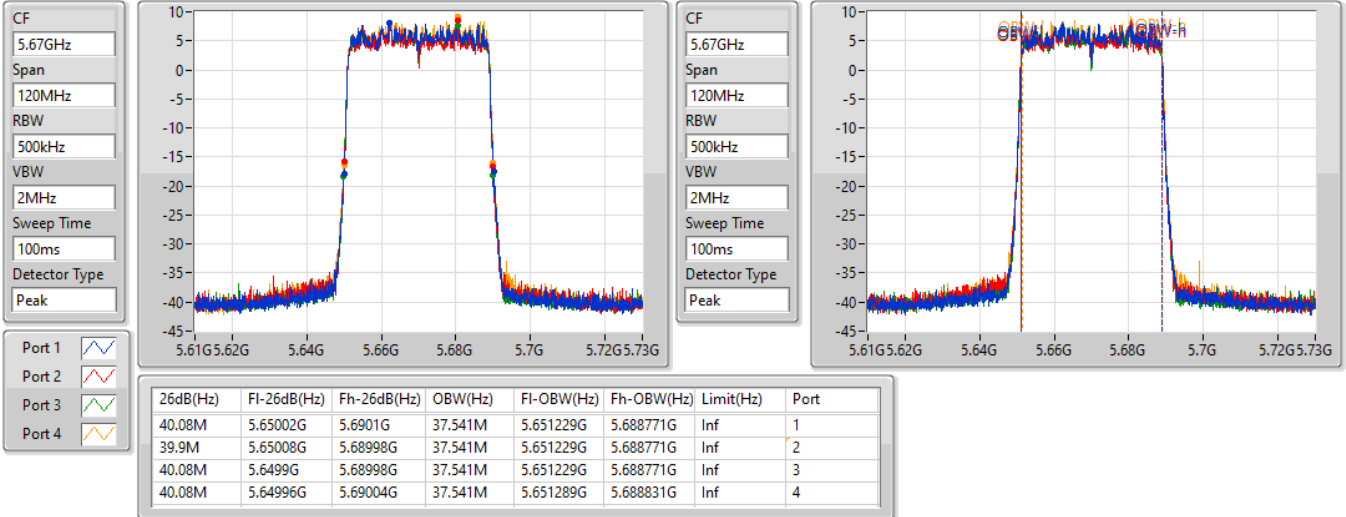

802.11ax HEW40-BF_Nss1,(MCS0)_4TX
EBW
5550MHz

15/05/2021

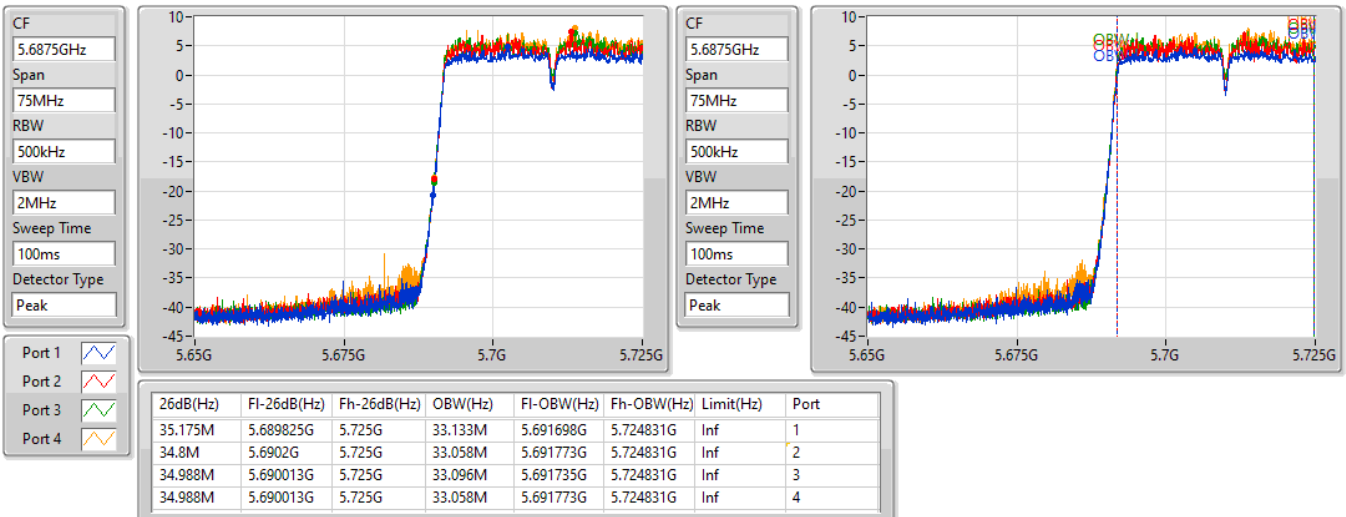


802.11ax HEW40-BF_Nss1,(MCS0)_4TX
EBW
5670MHz

15/05/2021

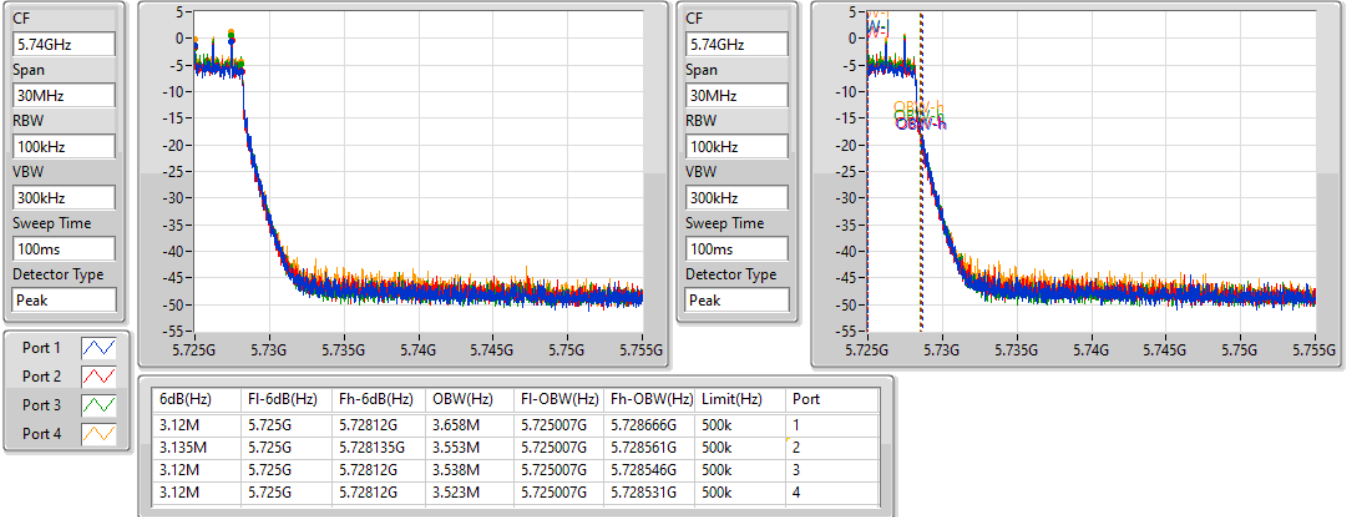

802.11ax HEW40-BF_Nss1,(MCS0)_4TX
EBW
5710MHz Straddle 5.47-5.725GHz

12/06/2021

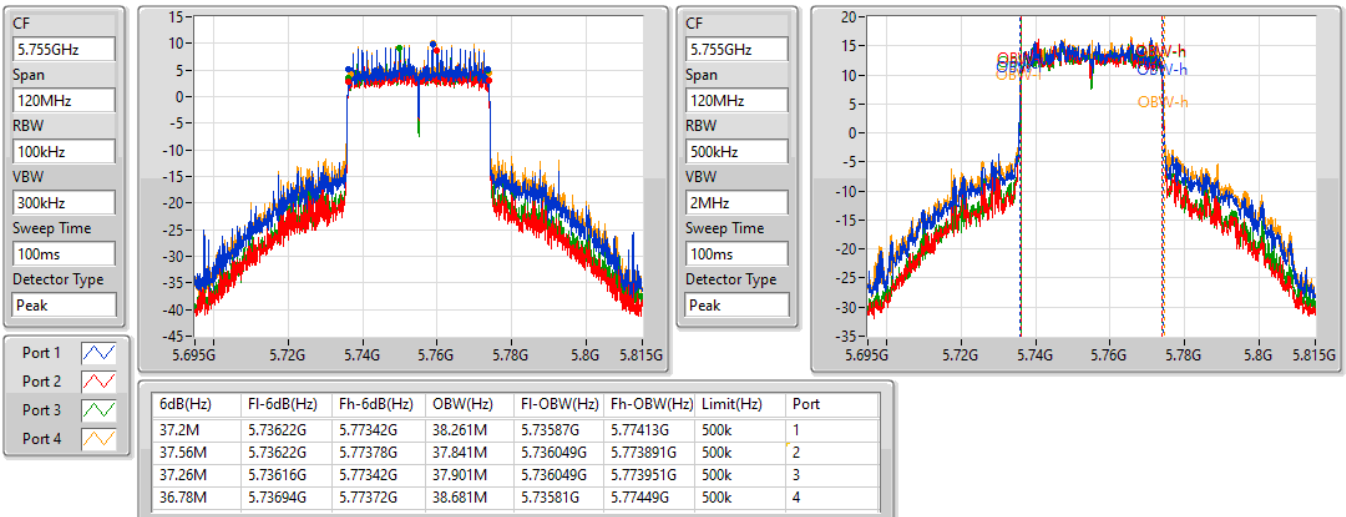


802.11ax HEW40-BF_Nss1,(MCS0)_4TX
EBW
5710MHz Straddle 5.725-5.85GHz

12/06/2021

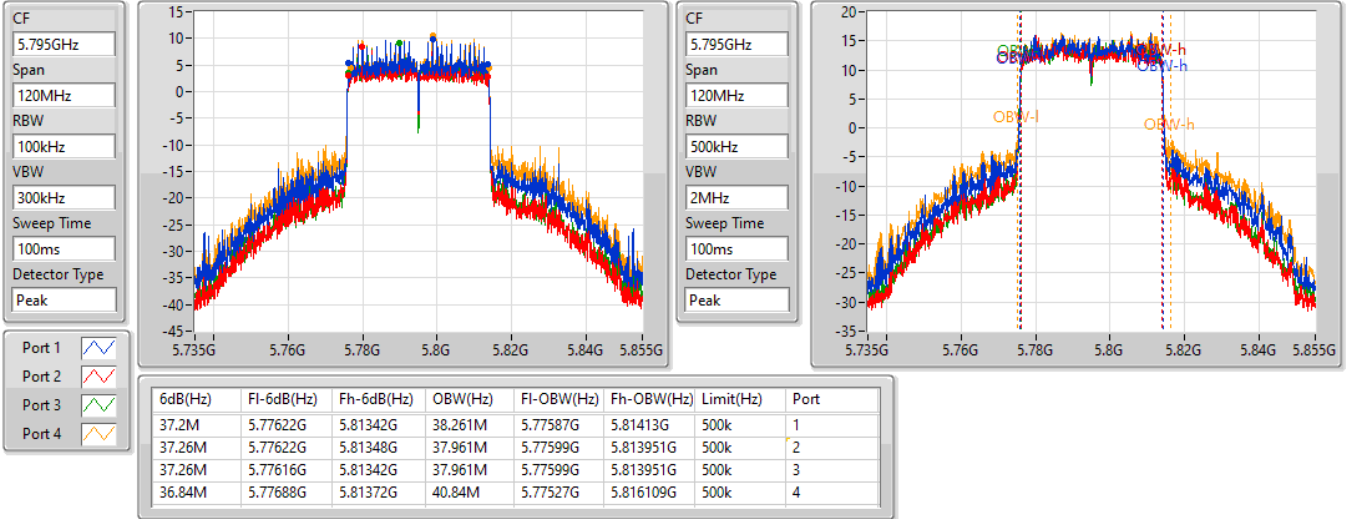

802.11ax HEW40-BF_Nss1,(MCS0)_4TX
EBW
5755MHz

07/05/2021

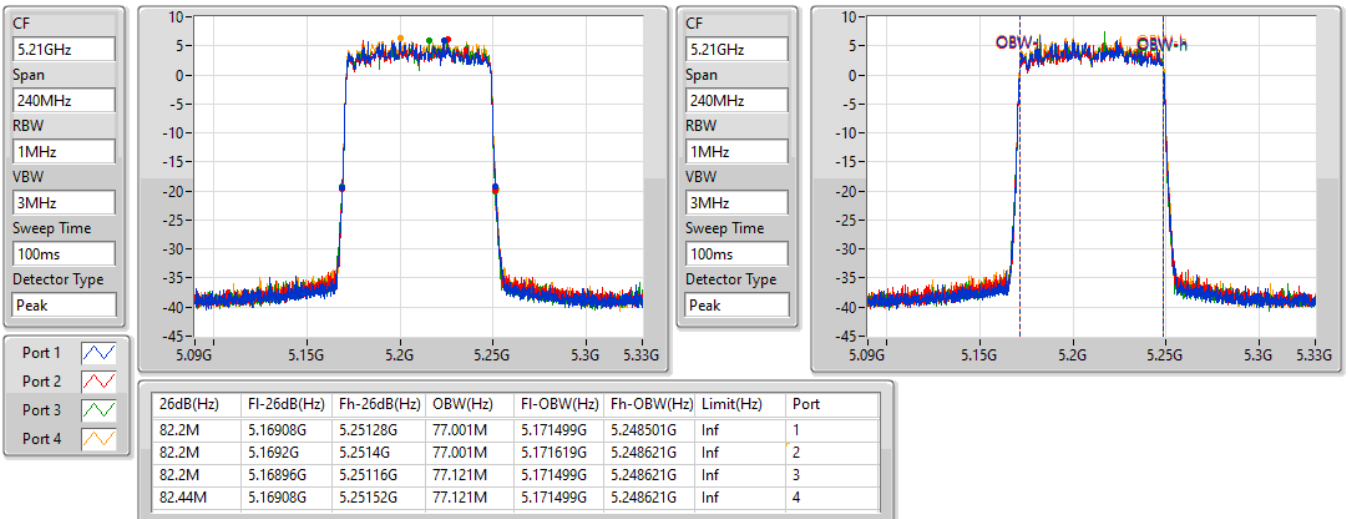


802.11ax HEW40-BF_Nss1,(MCS0)_4TX
EBW
5795MHz

07/05/2021


802.11ax HEW80-BF_Nss1,(MCS0)_4TX
EBW
5210MHz

07/05/2021

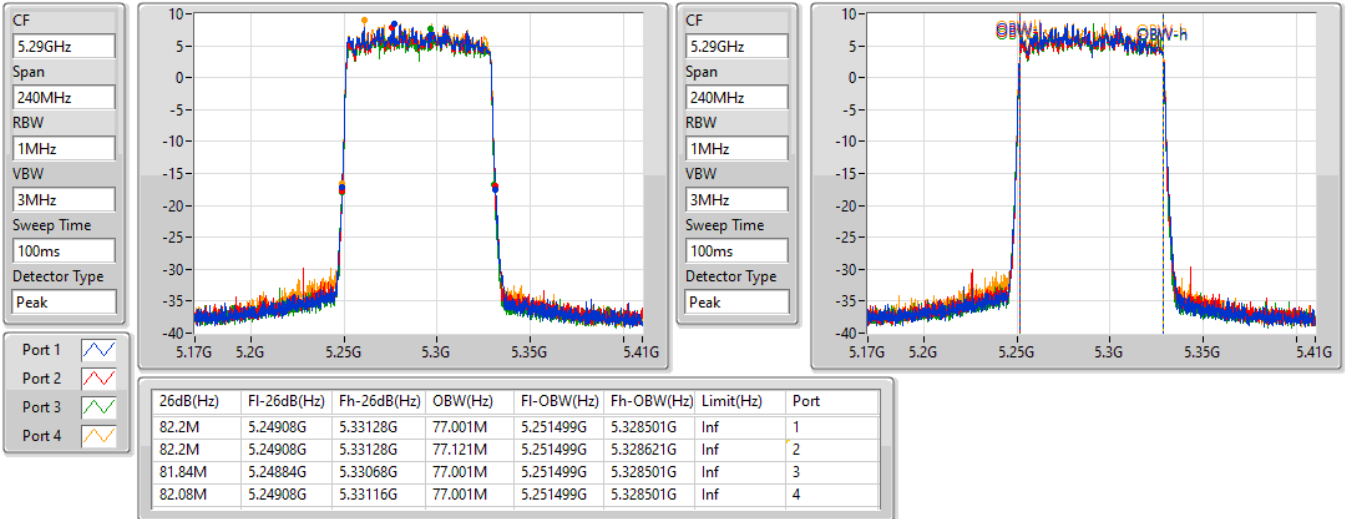


802.11ax HEW80-BF_Nss1,(MCS0)_4TX

EBW

5290MHz

15/05/2021

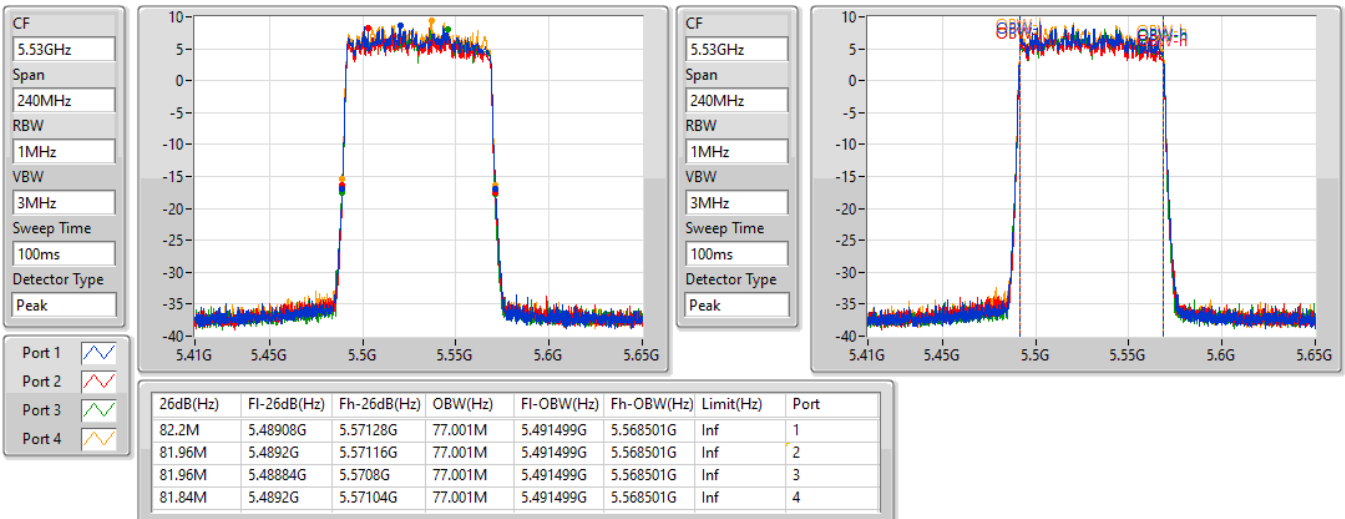


802.11ax HEW80-BF_Nss1,(MCS0)_4TX

EBW

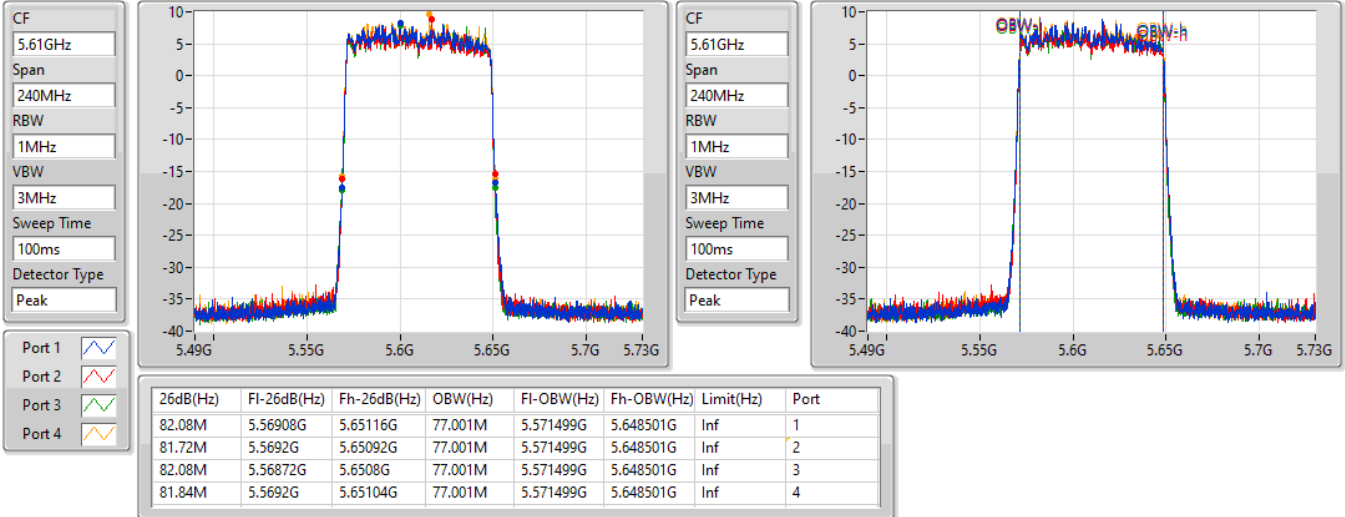
5530MHz

15/05/2021

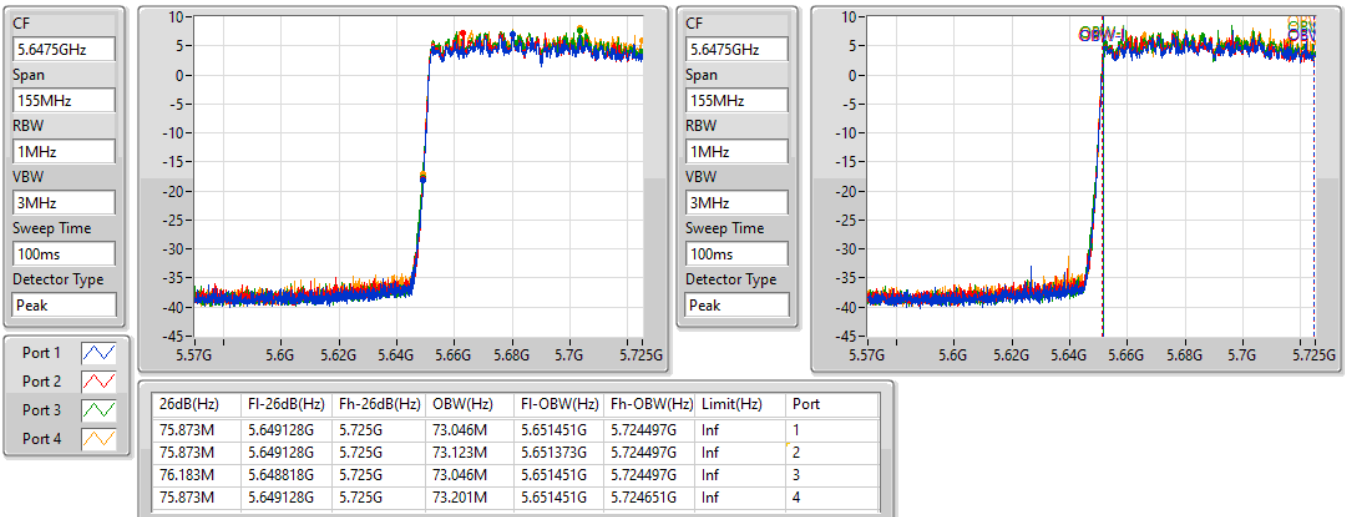


802.11ax HEW80-BF_Nss1,(MCS0)_4TX
EBW
5610MHz

15/05/2021

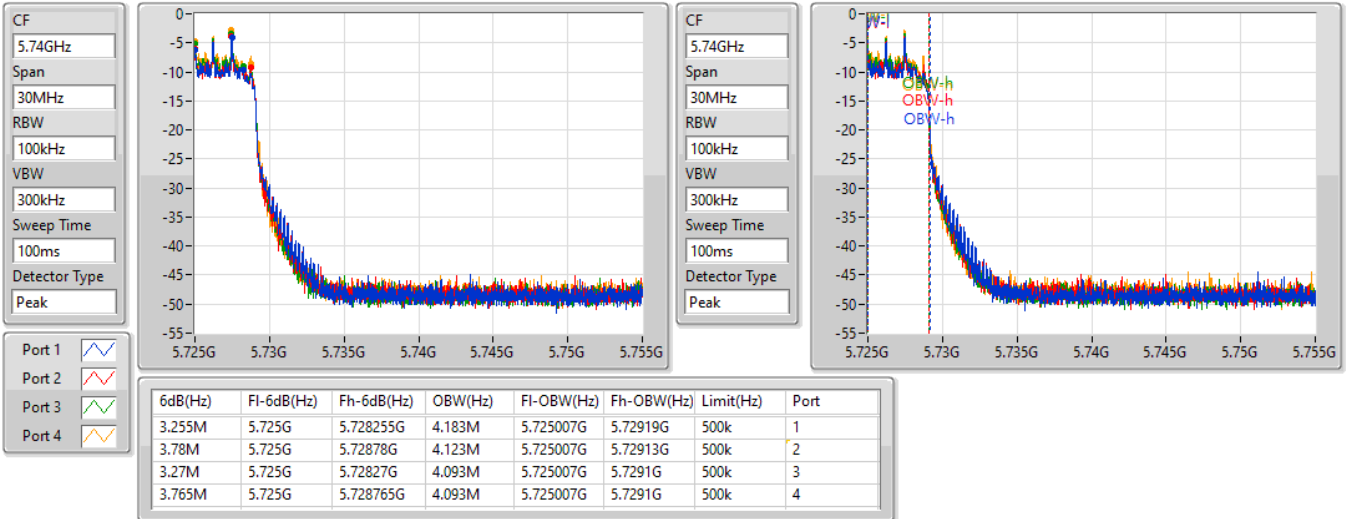

802.11ax HEW80-BF_Nss1,(MCS0)_4TX
EBW
5690MHz Straddle 5.47-5.725GHz

12/06/2021

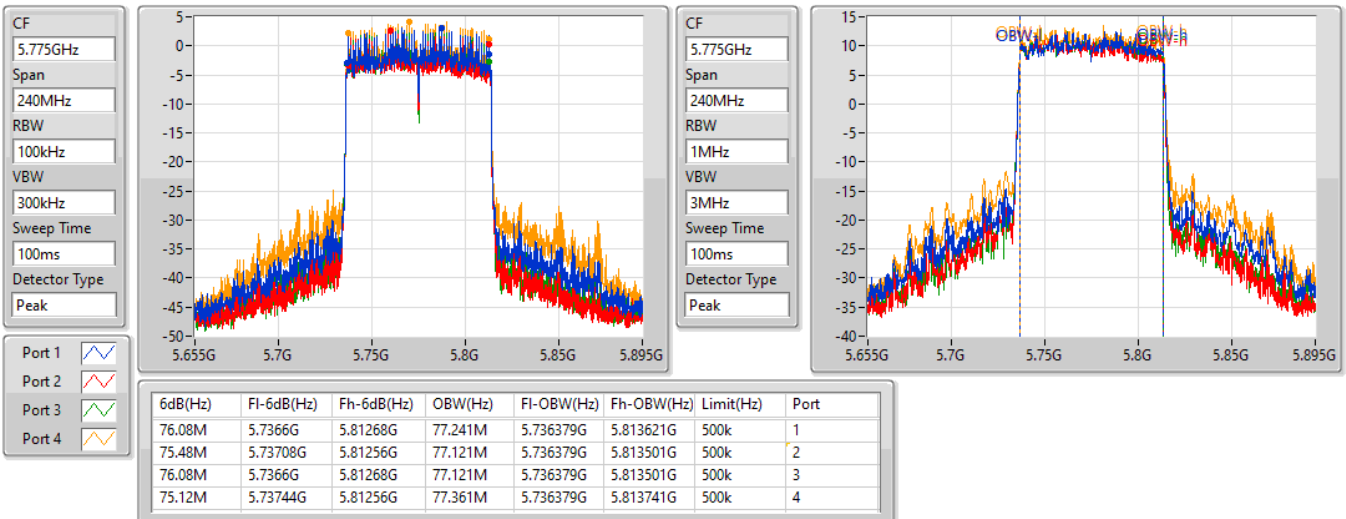


802.11ax HEW80-BF_Nss1,(MCS0)_4TX
EBW
5690MHz Straddle 5.725-5.85GHz

12/06/2021

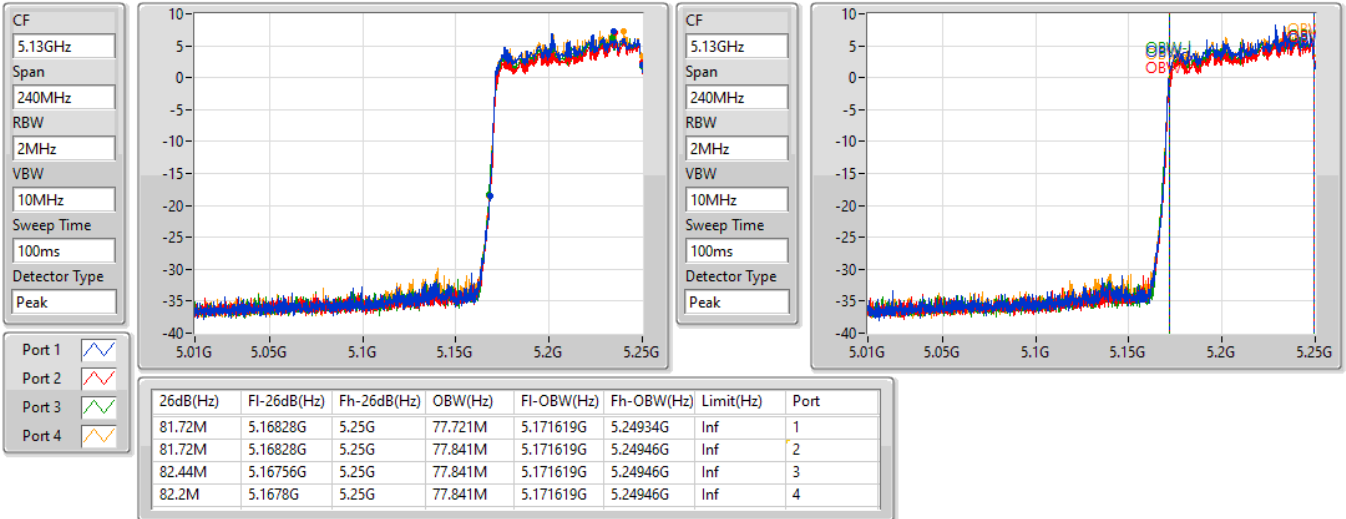

802.11ax HEW80-BF_Nss1,(MCS0)_4TX
EBW
5775MHz

07/05/2021

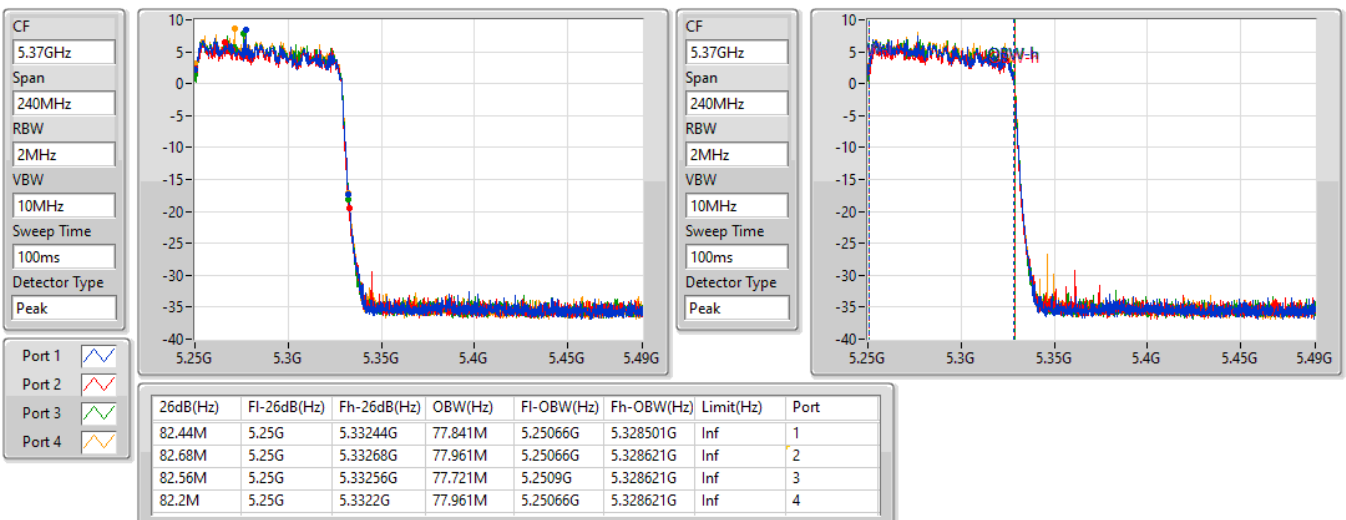


802.11ax HEW160-BF_Nss1,(MCS0)_4TX
EBW
5250MHz Straddle 5.15-5.25GHz

07/05/2021


802.11ax HEW160-BF_Nss1,(MCS0)_4TX
EBW
5250MHz Straddle 5.25-5.35GHz

07/05/2021

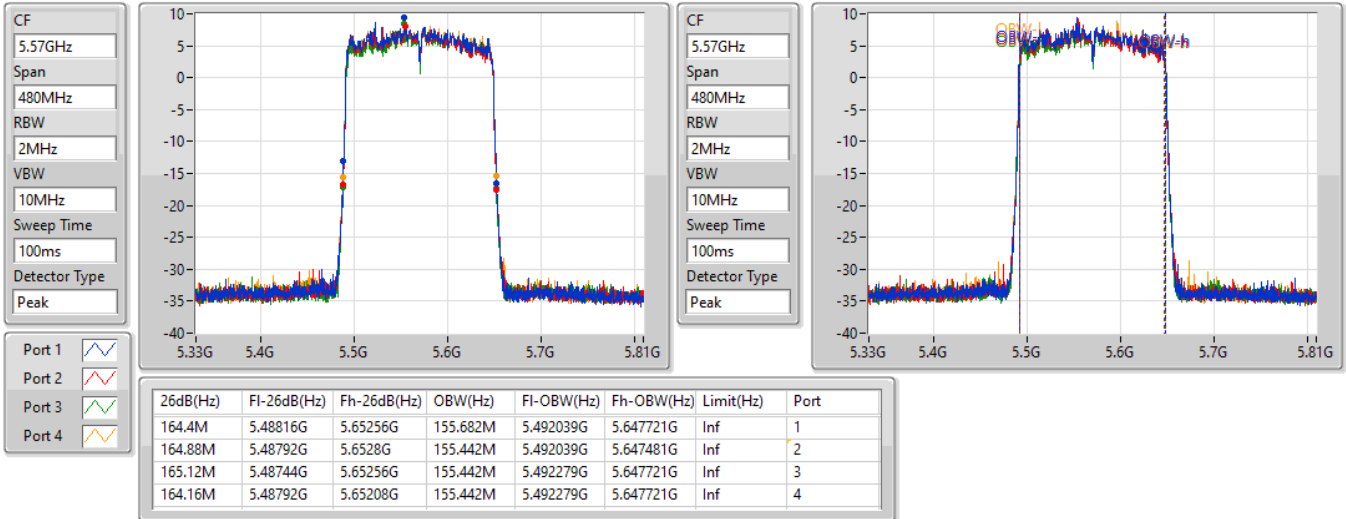


802.11ax HEW160-BF_Nss1,(MCS0)_4TX

EBW

5570MHz

15/05/2021



**For Radio 3 / 4T4S
Summary**

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.15-5.25GHz	-	-	-	-	-
802.11ax HEW20_Nss4,(MCS0)_4TX	21.69M	19.07M	19M1D1D	21M	19.01M
802.11ax HEW40_Nss4,(MCS0)_4TX	40.2M	37.721M	37M7D1D	39.78M	37.481M
802.11ax HEW80_Nss4,(MCS0)_4TX	81.6M	77.121M	77M1D1D	81M	76.882M
802.11ax HEW160_Nss4,(MCS0)_4TX	82.08M	77.721M	77M7D1D	81.36M	77.241M
5.25-5.35GHz	-	-	-	-	-
802.11ax HEW20_Nss4,(MCS0)_4TX	21.69M	19.07M	19M1D1D	21.18M	19.01M
802.11ax HEW40_Nss4,(MCS0)_4TX	40.26M	37.721M	37M7D1D	39.78M	37.481M
802.11ax HEW80_Nss4,(MCS0)_4TX	81.6M	77.121M	77M1D1D	81.12M	77.001M
802.11ax HEW160_Nss4,(MCS0)_4TX	83.52M	77.841M	77M8D1D	82.56M	77.241M
5.47-5.725GHz	-	-	-	-	-
802.11ax HEW20_Nss4,(MCS0)_4TX	21.75M	19.07M	19M1D1D	15.558M	14.535M
802.11ax HEW40_Nss4,(MCS0)_4TX	40.32M	37.721M	37M7D1D	34.988M	33.658M
802.11ax HEW80_Nss4,(MCS0)_4TX	81.96M	77.121M	77M1D1D	75.563M	72.969M
802.11ax HEW160_Nss4,(MCS0)_4TX	165.84M	155.442M	155MD1D	164.64M	155.202M
5.725-5.85GHz	-	-	-	-	-
802.11ax HEW20_Nss4,(MCS0)_4TX	18.72M	21.049M	21M0D1D	4.08M	4.633M
802.11ax HEW40_Nss4,(MCS0)_4TX	37.56M	43.658M	43M7D1D	3.225M	4.048M
802.11ax HEW80_Nss4,(MCS0)_4TX	76.32M	77.241M	77M2D1D	3.27M	4.108M

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

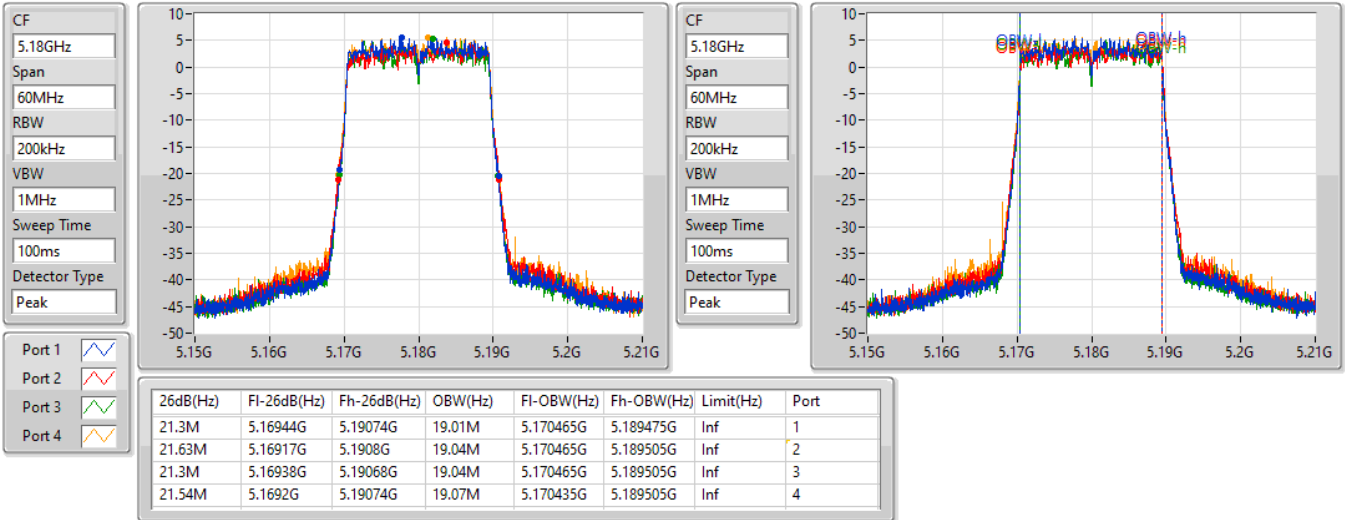
Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)	Port 3-N dB (Hz)	Port 3-OBW (Hz)	Port 4-N dB (Hz)	Port 4-OBW (Hz)
802.11ax HEW20_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	Inf	21.3M	19.01M	21.63M	19.04M	21.3M	19.04M	21.54M	19.07M
5200MHz	Pass	Inf	21.3M	19.01M	21.6M	19.04M	21.15M	19.04M	21.54M	19.07M
5240MHz	Pass	Inf	21M	19.01M	21.69M	19.04M	21.27M	19.04M	21.51M	19.07M
5260MHz	Pass	Inf	21.27M	19.01M	21.66M	19.01M	21.27M	19.04M	21.57M	19.07M
5300MHz	Pass	Inf	21.3M	19.01M	21.69M	19.04M	21.3M	19.07M	21.57M	19.07M
5320MHz	Pass	Inf	21.18M	19.01M	21.69M	19.04M	21.3M	19.04M	21.57M	19.07M
5500MHz	Pass	Inf	21.15M	19.01M	21.75M	19.04M	21.27M	19.04M	21.54M	19.07M
5580MHz	Pass	Inf	21.27M	19.01M	21.69M	19.01M	21.24M	19.07M	21.48M	19.07M
5700MHz	Pass	Inf	21.36M	19.01M	21.75M	19.01M	21.27M	19.04M	21.54M	19.07M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	15.558M	14.535M	15.873M	14.553M	15.61M	14.57M	15.838M	14.605M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	4.32M	4.633M	4.365M	4.648M	4.08M	4.633M	4.41M	4.678M
5745MHz	Pass	500k	18.72M	19.34M	18.39M	19.13M	18.6M	19.16M	17.88M	19.88M
5785MHz	Pass	500k	18.12M	19.34M	18.18M	19.16M	18.36M	19.13M	17.61M	19.7M
5825MHz	Pass	500k	18.15M	19.31M	18.18M	19.19M	18.3M	19.16M	17.58M	21.049M
802.11ax HEW40_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	Inf	40.2M	37.661M	40.08M	37.661M	39.84M	37.481M	40.14M	37.721M
5230MHz	Pass	Inf	40.08M	37.661M	40.2M	37.661M	39.78M	37.541M	40.14M	37.721M
5270MHz	Pass	Inf	40.14M	37.661M	40.26M	37.721M	39.78M	37.481M	40.26M	37.721M
5310MHz	Pass	Inf	40.26M	37.661M	40.14M	37.721M	39.84M	37.481M	40.08M	37.661M
5510MHz	Pass	Inf	40.08M	37.661M	40.32M	37.661M	40.02M	37.481M	40.2M	37.661M
5550MHz	Pass	Inf	40.26M	37.661M	40.2M	37.661M	39.84M	37.481M	40.08M	37.721M
5670MHz	Pass	Inf	40.14M	37.661M	40.14M	37.661M	39.84M	37.481M	40.02M	37.721M
5710MHz Straddle 5.47-5.725GHz	Pass	Inf	35.213M	33.733M	34.988M	33.808M	35.063M	33.658M	35.025M	33.696M
5710MHz Straddle 5.725-5.85GHz	Pass	500k	3.9M	4.093M	3.765M	4.108M	3.225M	4.048M	3.72M	4.093M
5755MHz	Pass	500k	37.2M	38.501M	37.56M	37.961M	36.42M	37.781M	36.3M	40.36M
5795MHz	Pass	500k	37.5M	39.34M	35.94M	38.081M	37.44M	37.841M	35.22M	43.658M
802.11ax HEW80_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	Inf	81.36M	77.001M	81.12M	77.001M	81M	77.121M	81.6M	76.882M
5290MHz	Pass	Inf	81.36M	77.001M	81.12M	77.121M	81.12M	77.121M	81.6M	77.001M
5530MHz	Pass	Inf	81.36M	77.001M	81.12M	77.001M	81.24M	77.121M	81.96M	77.001M
5610MHz	Pass	Inf	81.48M	77.001M	81.12M	77.121M	81.24M	77.121M	81.6M	77.001M
5690MHz Straddle 5.47-5.725GHz	Pass	Inf	75.873M	73.123M	75.64M	73.046M	75.718M	73.356M	75.563M	72.969M
5690MHz Straddle 5.725-5.85GHz	Pass	500k	3.78M	4.108M	3.27M	4.138M	3.735M	4.108M	3.315M	4.123M
5775MHz	Pass	500k	75.12M	77.121M	76.32M	77.121M	75.36M	77.121M	75.24M	77.241M
802.11ax HEW160_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	Inf	81.84M	77.721M	81.36M	77.481M	81.72M	77.361M	82.08M	77.241M
5250MHz Straddle 5.25-5.35GHz	Pass	Inf	82.92M	77.241M	83.4M	77.841M	83.52M	77.481M	82.56M	77.481M
5570MHz	Pass	Inf	165.84M	155.442M	165.36M	155.202M	164.64M	155.202M	165.12M	155.202M

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

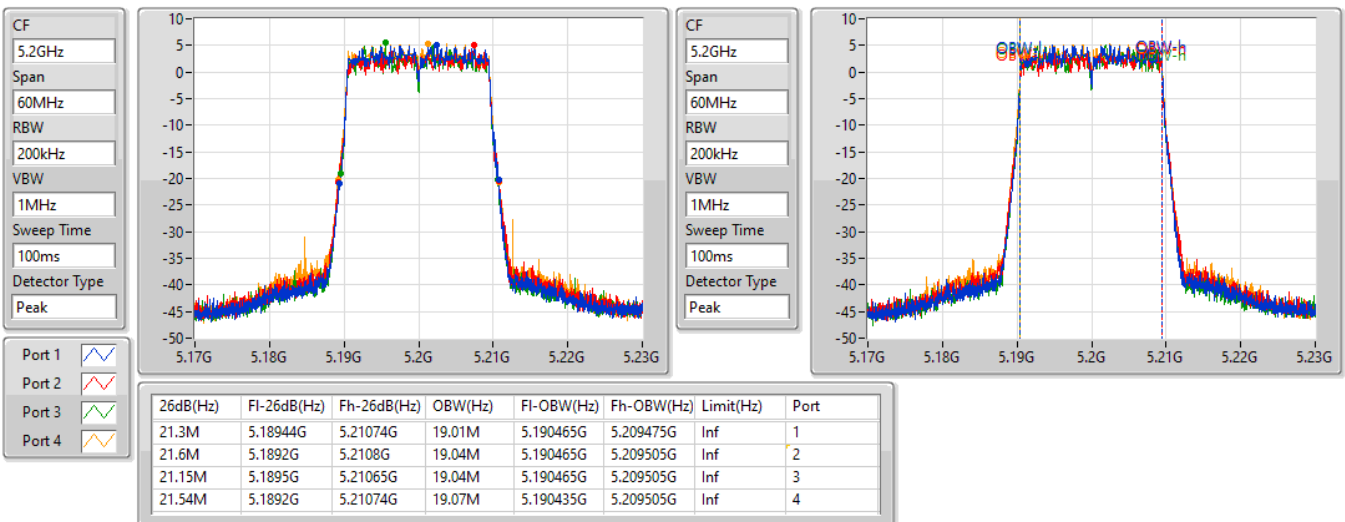
Port X-OBW = Port X 99% occupied bandwidth;

802.11ax HEW20_Nss4,(MCS0)_4TX
EBW
5180MHz

15/05/2021

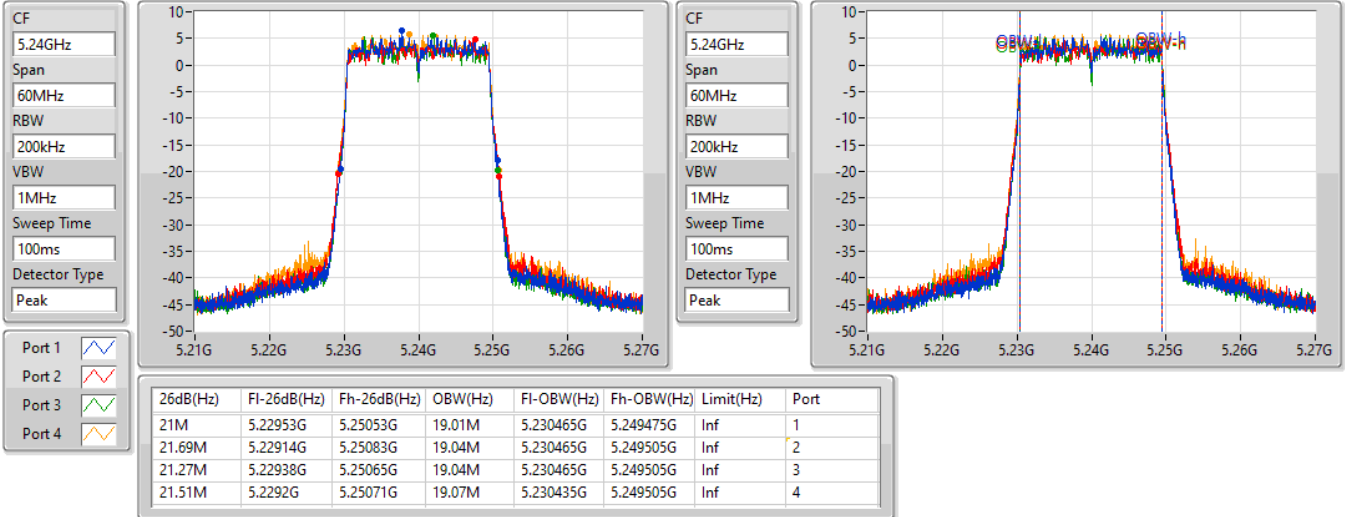

802.11ax HEW20_Nss4,(MCS0)_4TX
EBW
5200MHz

15/05/2021

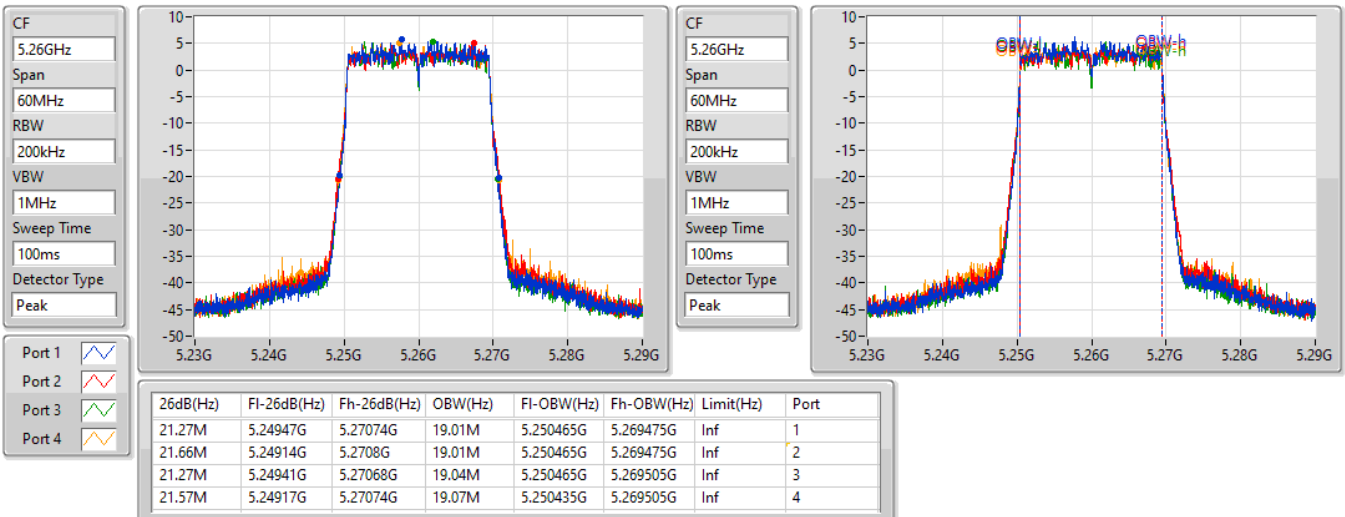


802.11ax HEW20_Nss4,(MCS0)_4TX
EBW
5240MHz

15/05/2021

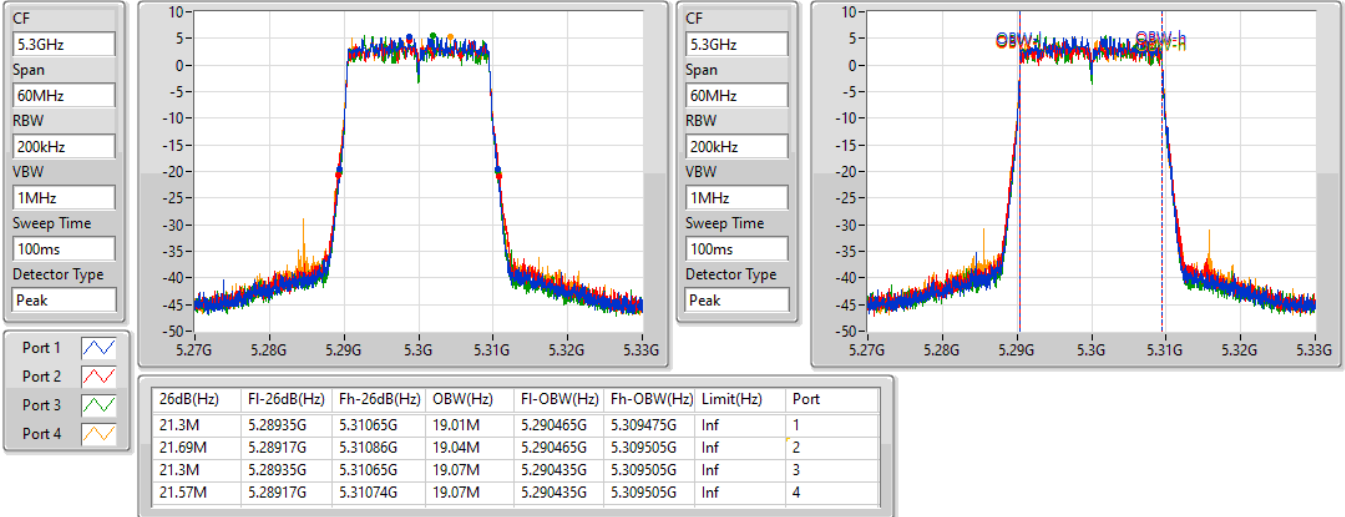

802.11ax HEW20_Nss4,(MCS0)_4TX
EBW
5260MHz

15/05/2021

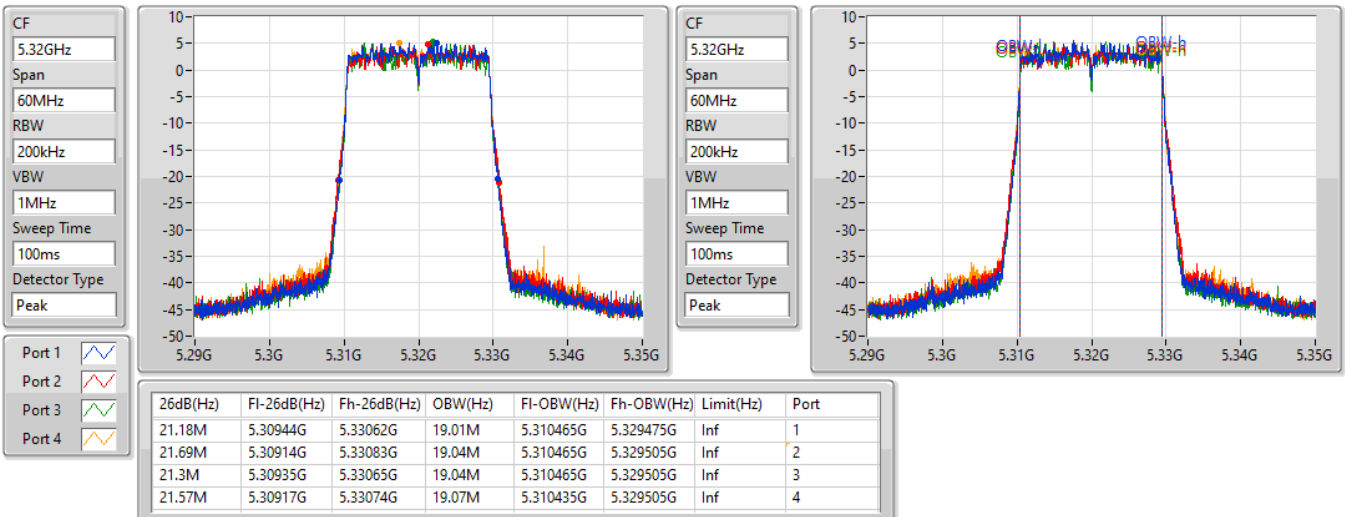


802.11ax HEW20_Nss4,(MCS0)_4TX
EBW
5300MHz

15/05/2021

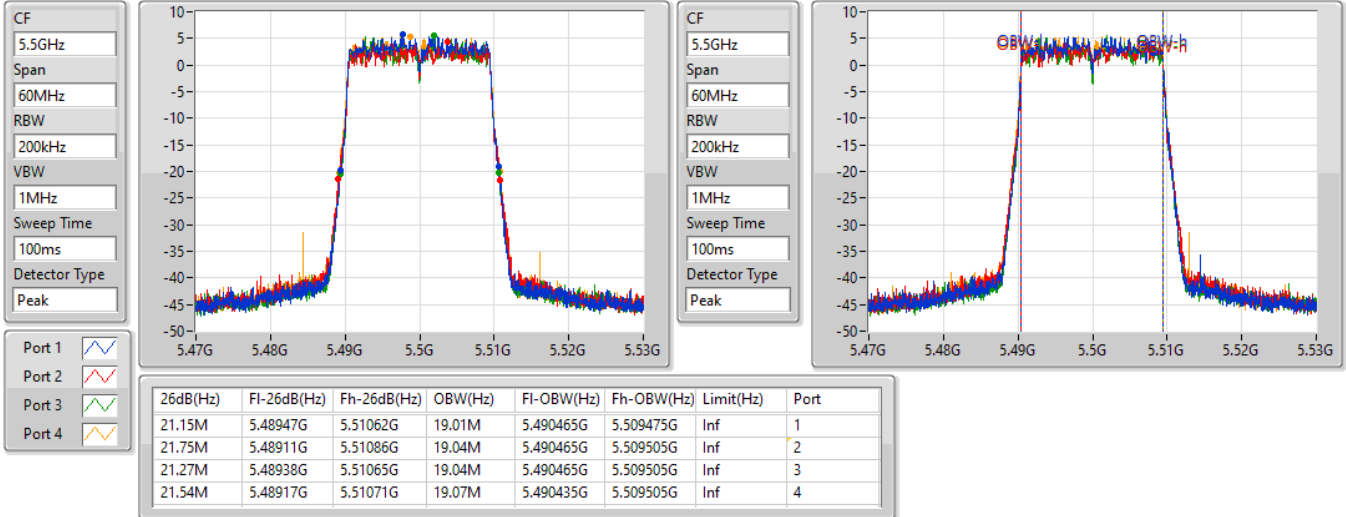

802.11ax HEW20_Nss4,(MCS0)_4TX
EBW
5320MHz

15/05/2021

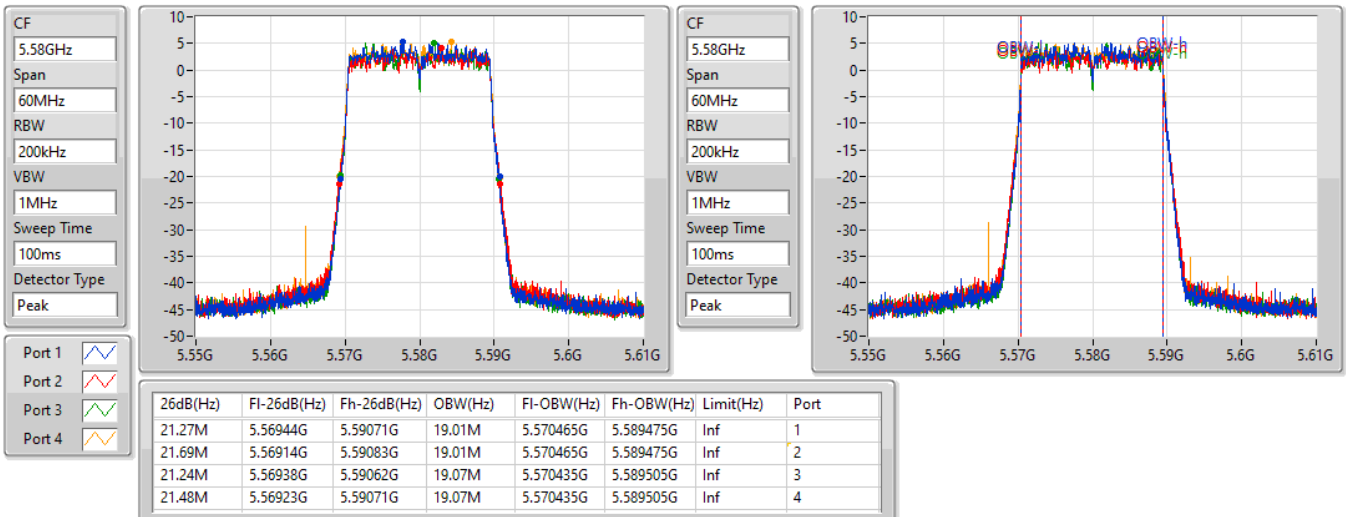


802.11ax HEW20_Nss4,(MCS0)_4TX
EBW
5500MHz

15/05/2021

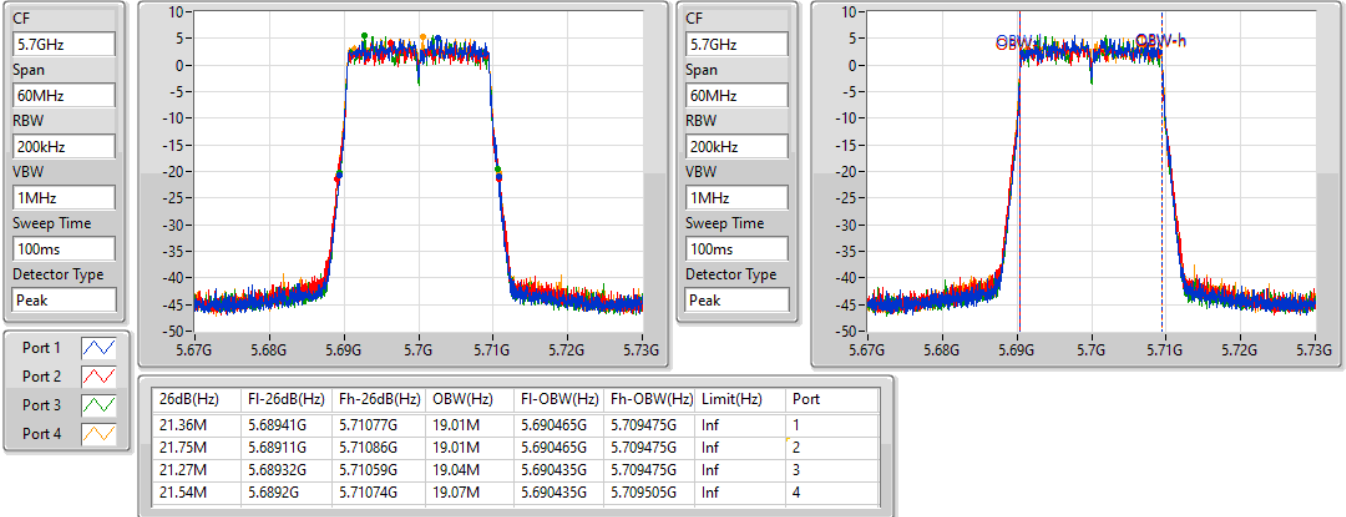

802.11ax HEW20_Nss4,(MCS0)_4TX
EBW
5580MHz

15/05/2021

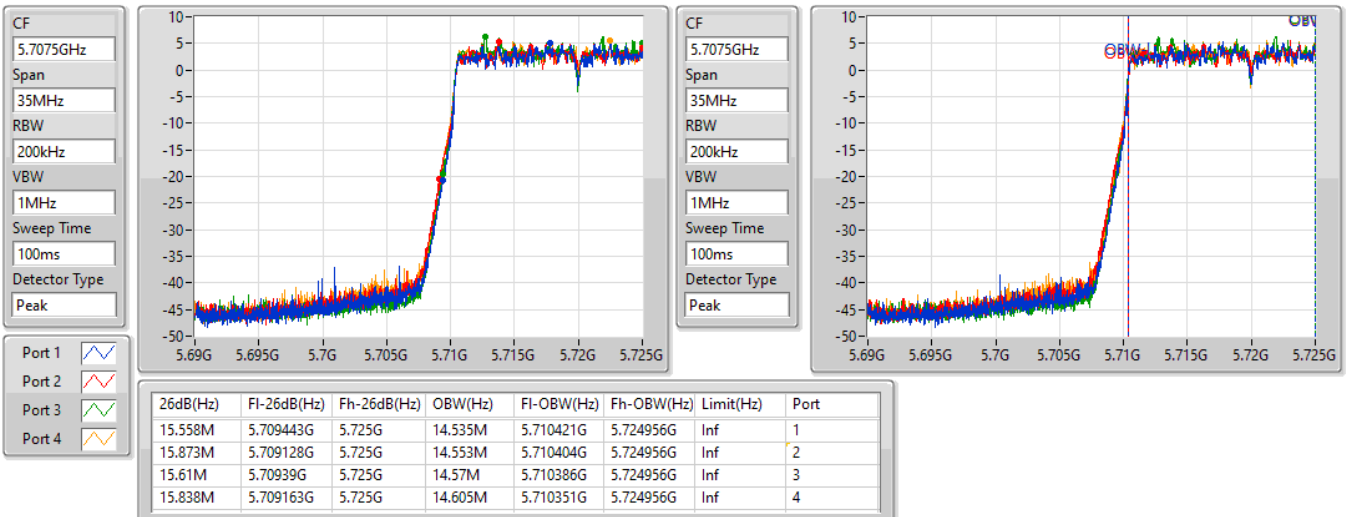


802.11ax HEW20_Nss4,(MCS0)_4TX
EBW
5700MHz

15/05/2021

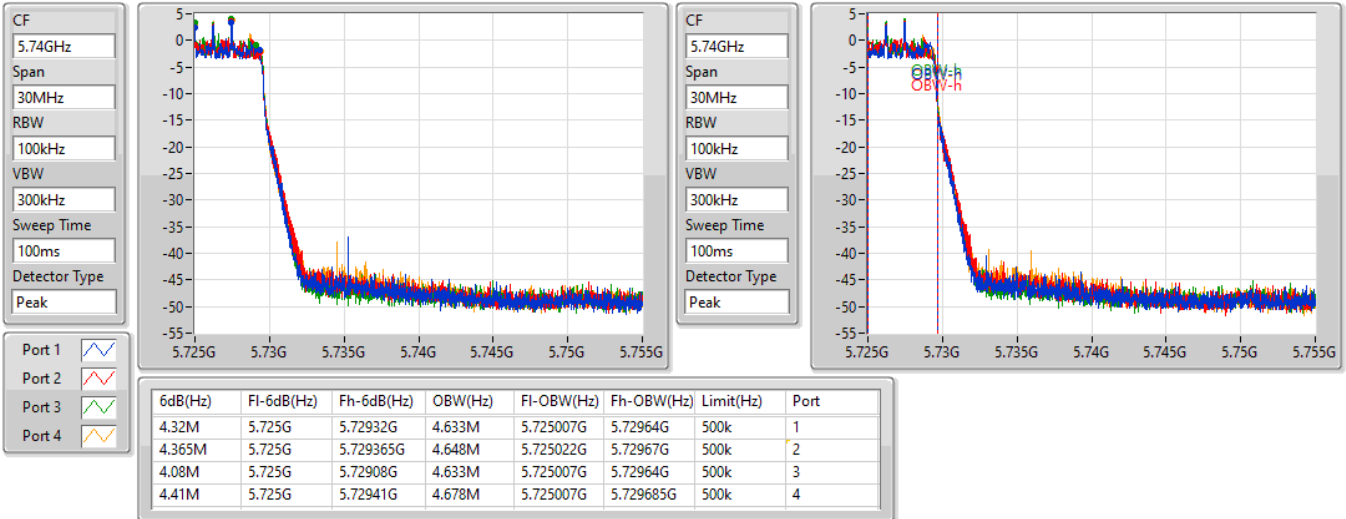

802.11ax HEW20_Nss4,(MCS0)_4TX
EBW
5720MHz Straddle 5.47-5.725GHz

12/06/2021

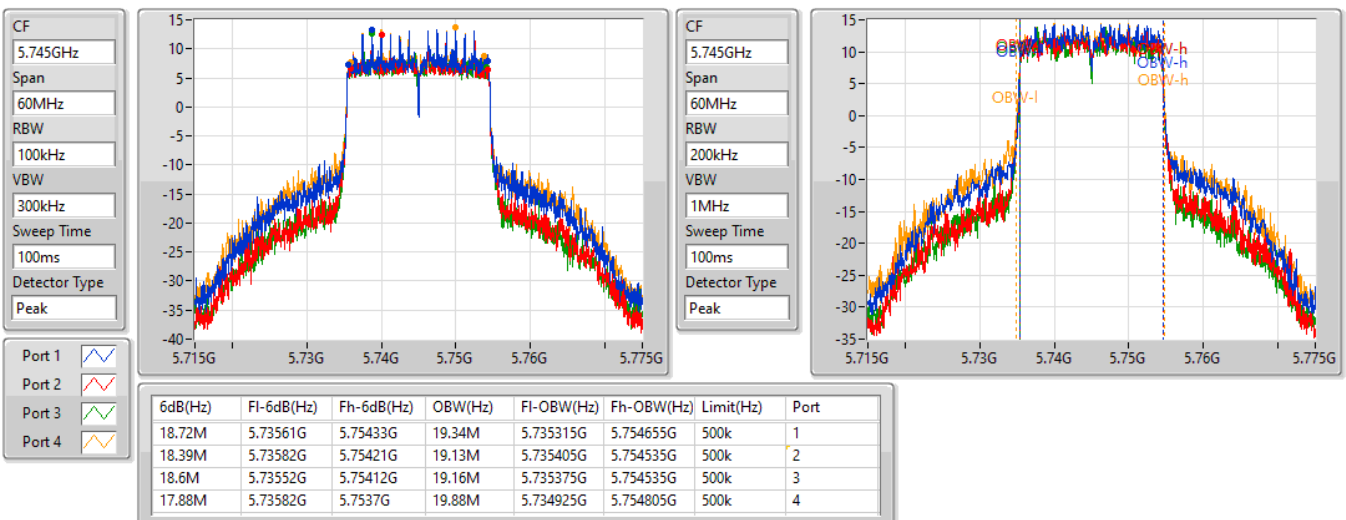


802.11ax HEW20_Nss4,(MCS0)_4TX
EBW
5720MHz Straddle 5.725-5.85GHz

12/06/2021

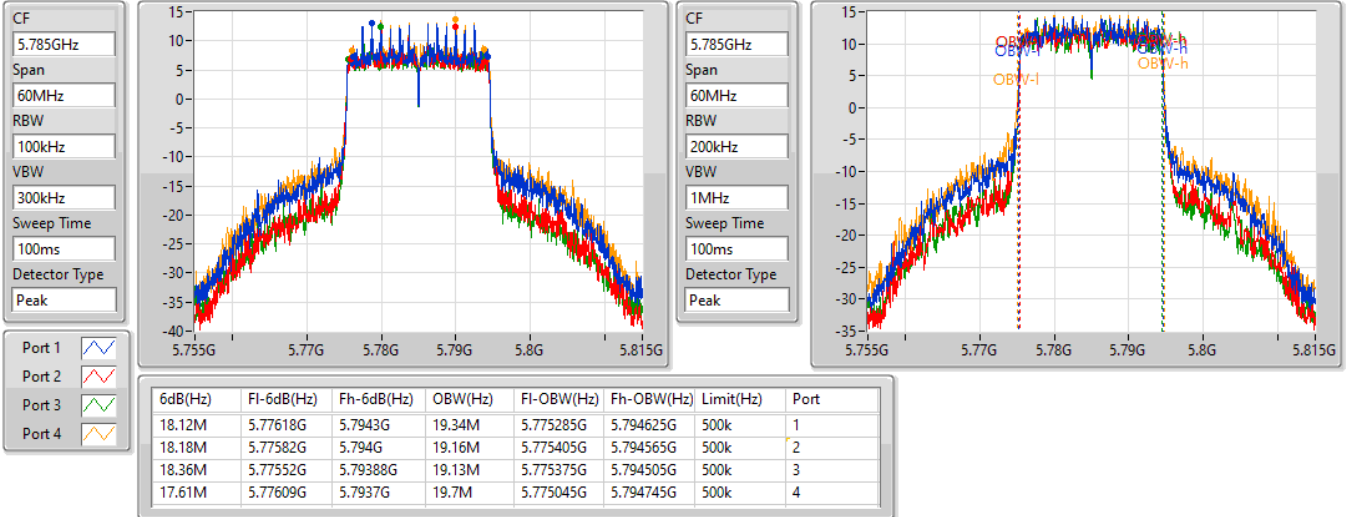

802.11ax HEW20_Nss4,(MCS0)_4TX
EBW
5745MHz

15/05/2021

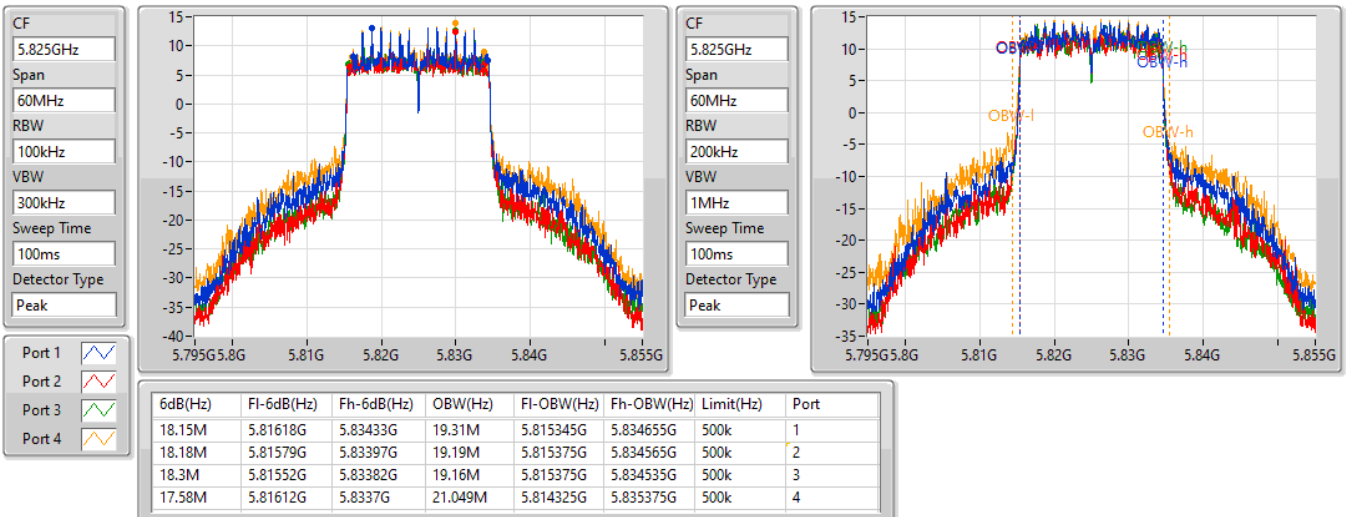


802.11ax HEW20_Nss4,(MCS0)_4TX
EBW
5785MHz

15/05/2021

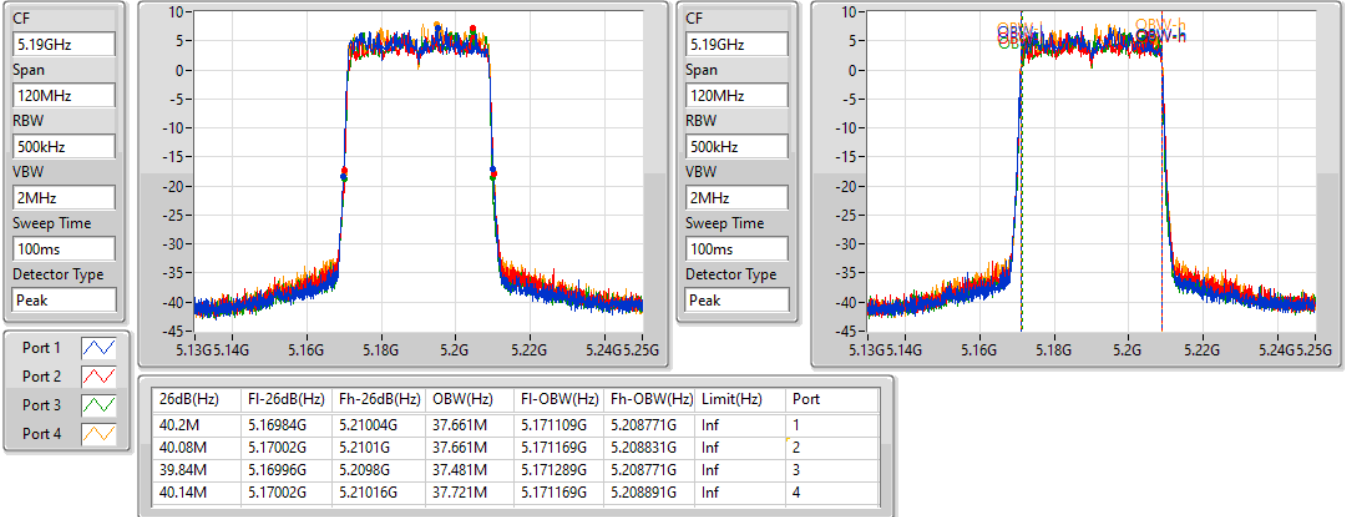

802.11ax HEW20_Nss4,(MCS0)_4TX
EBW
5825MHz

15/05/2021

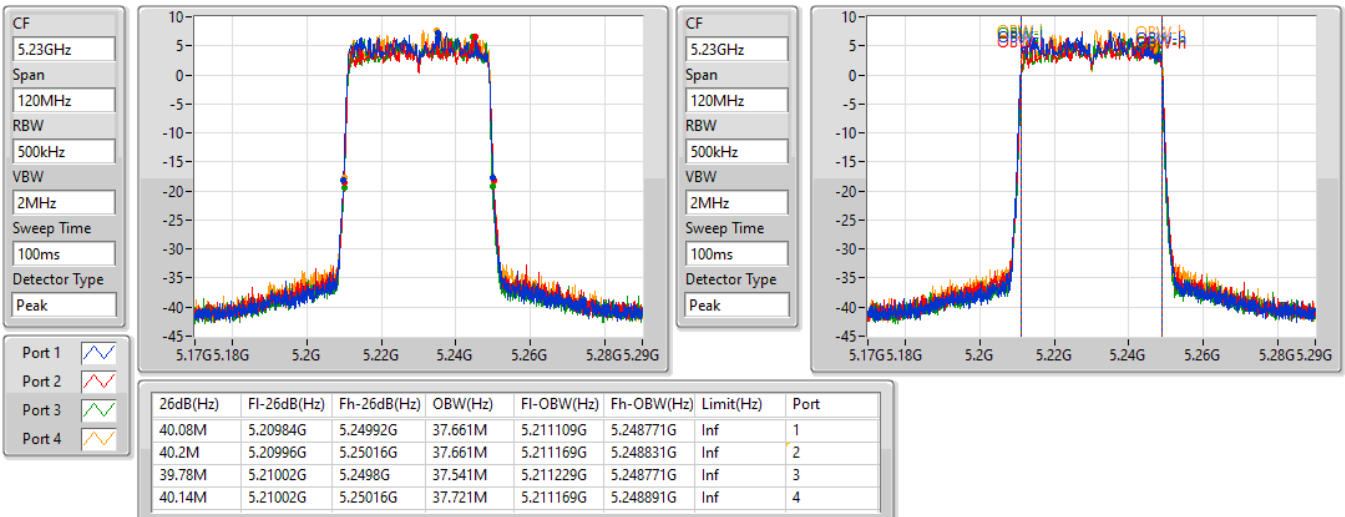


802.11ax HEW40_Nss4,(MCS0)_4TX
EBW
5190MHz

15/05/2021

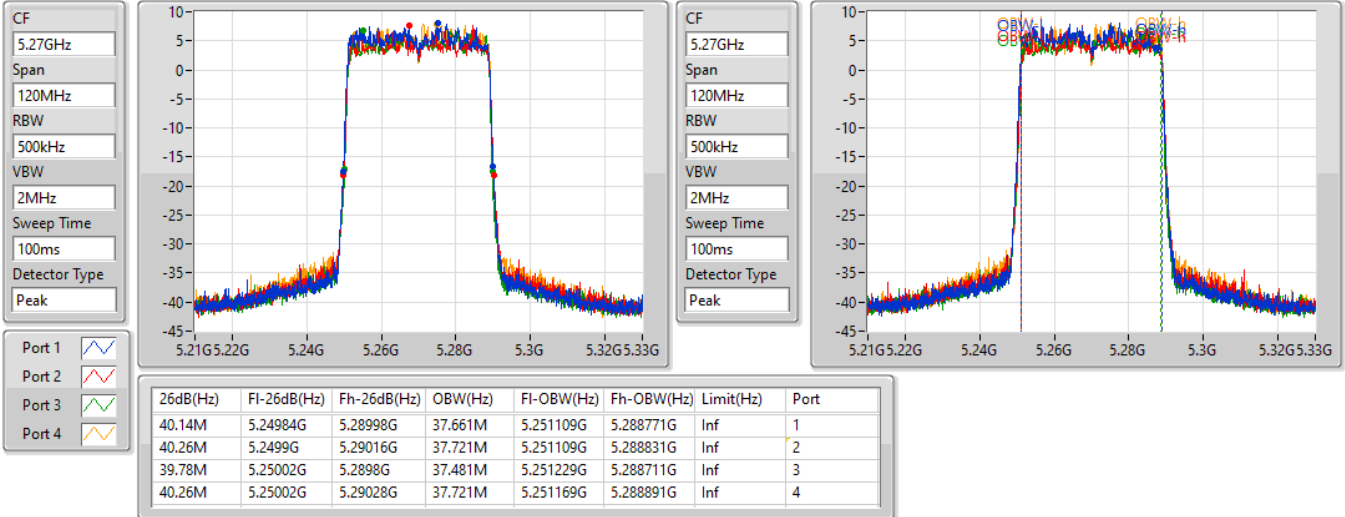

802.11ax HEW40_Nss4,(MCS0)_4TX
EBW
5230MHz

15/05/2021

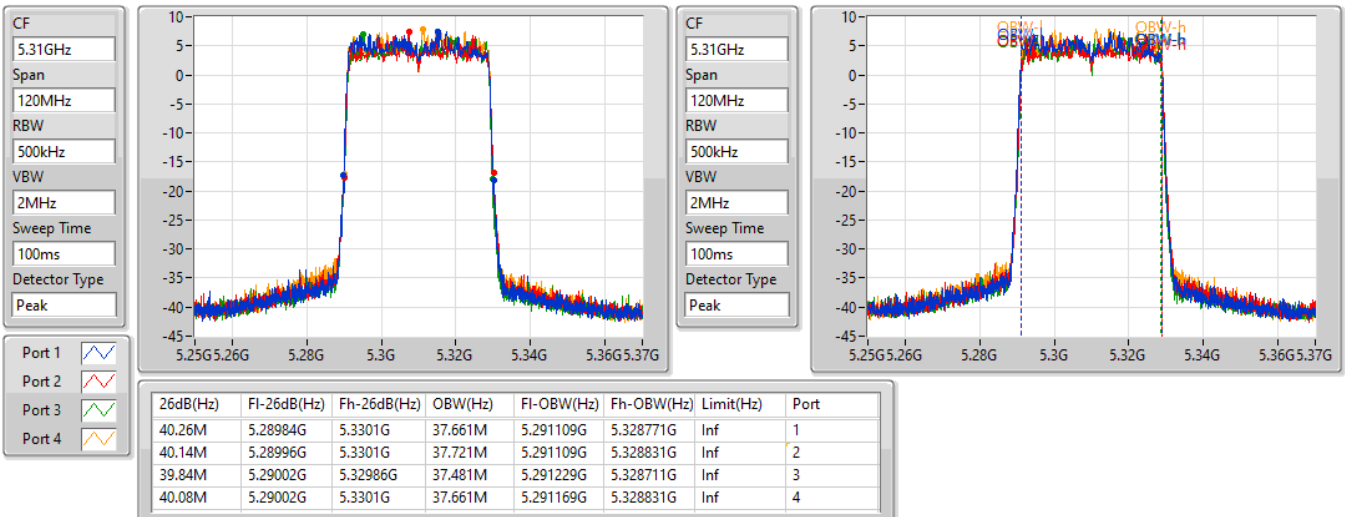


802.11ax HEW40_Nss4,(MCS0)_4TX
EBW
5270MHz

15/05/2021

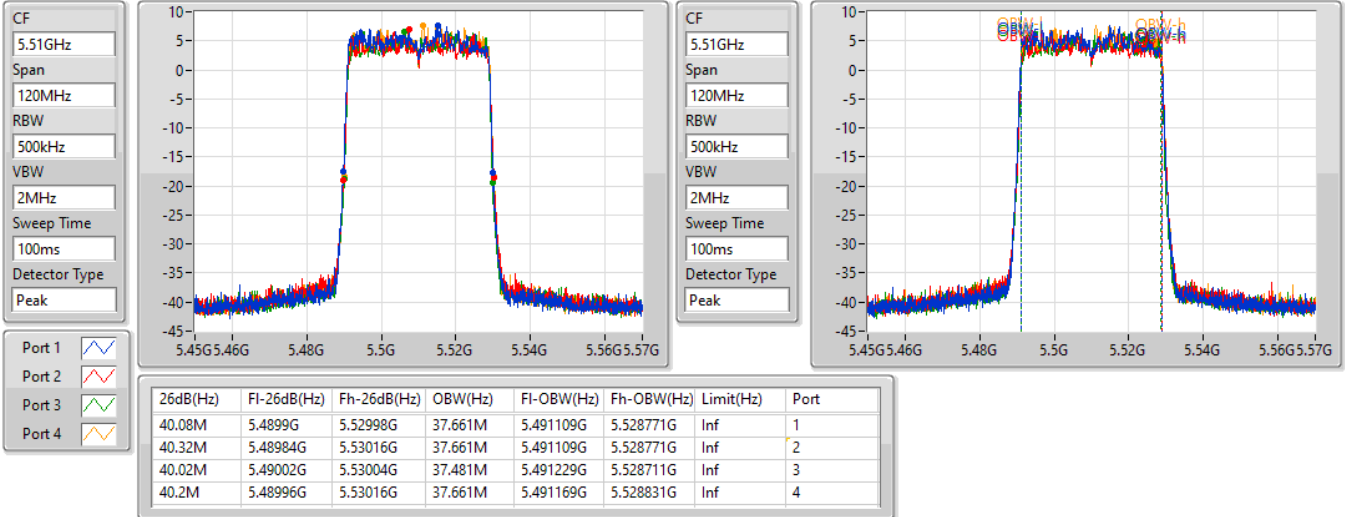

802.11ax HEW40_Nss4,(MCS0)_4TX
EBW
5310MHz

15/05/2021

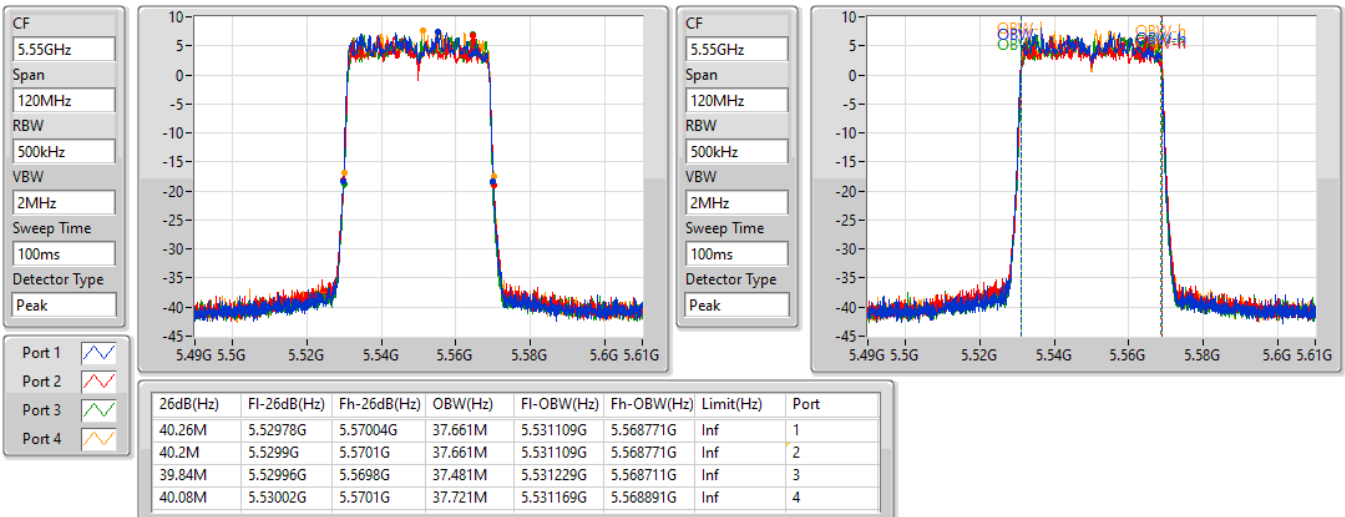


802.11ax HEW40_Nss4,(MCS0)_4TX
EBW
5510MHz

15/05/2021

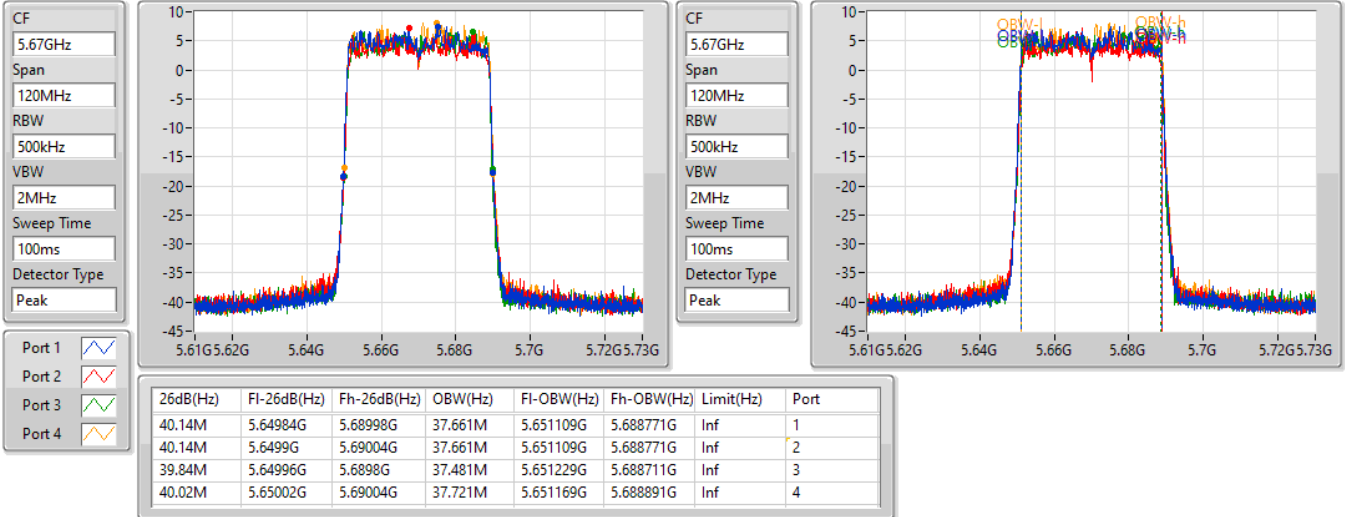

802.11ax HEW40_Nss4,(MCS0)_4TX
EBW
5550MHz

15/05/2021

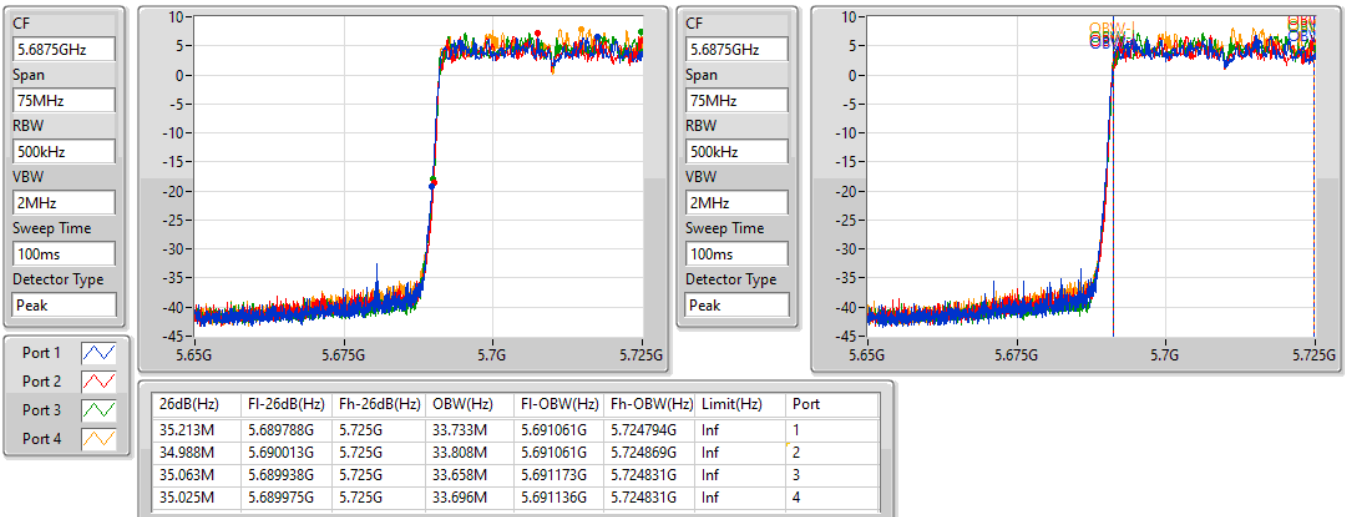


802.11ax HEW40_Nss4,(MCS0)_4TX
EBW
5670MHz

15/05/2021

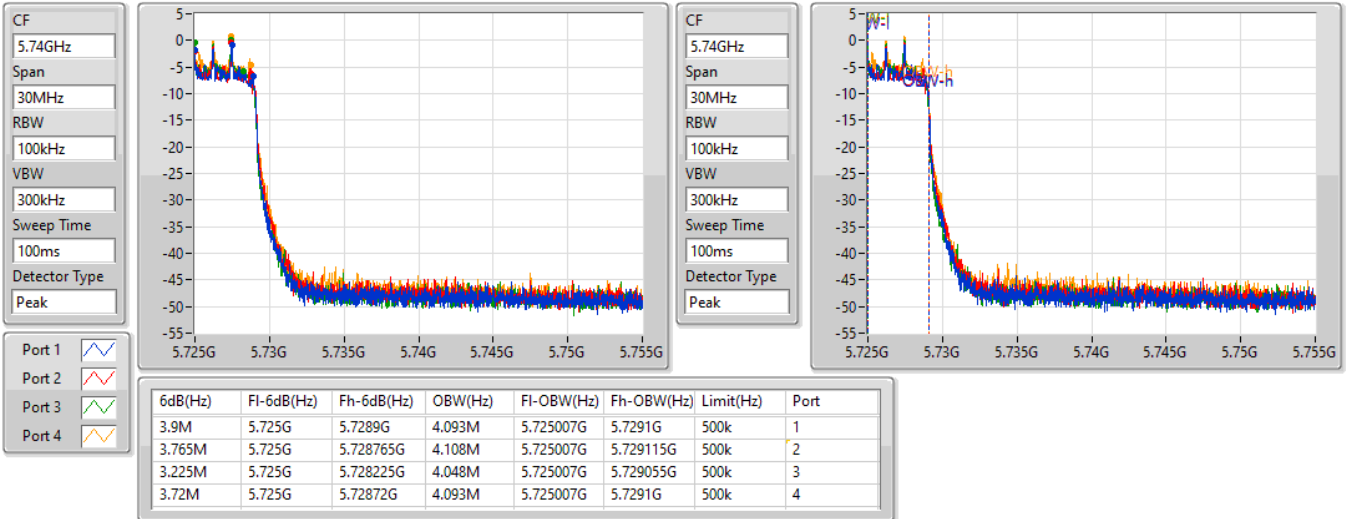

802.11ax HEW40_Nss4,(MCS0)_4TX
EBW
5710MHz Straddle 5.47-5.725GHz

12/06/2021

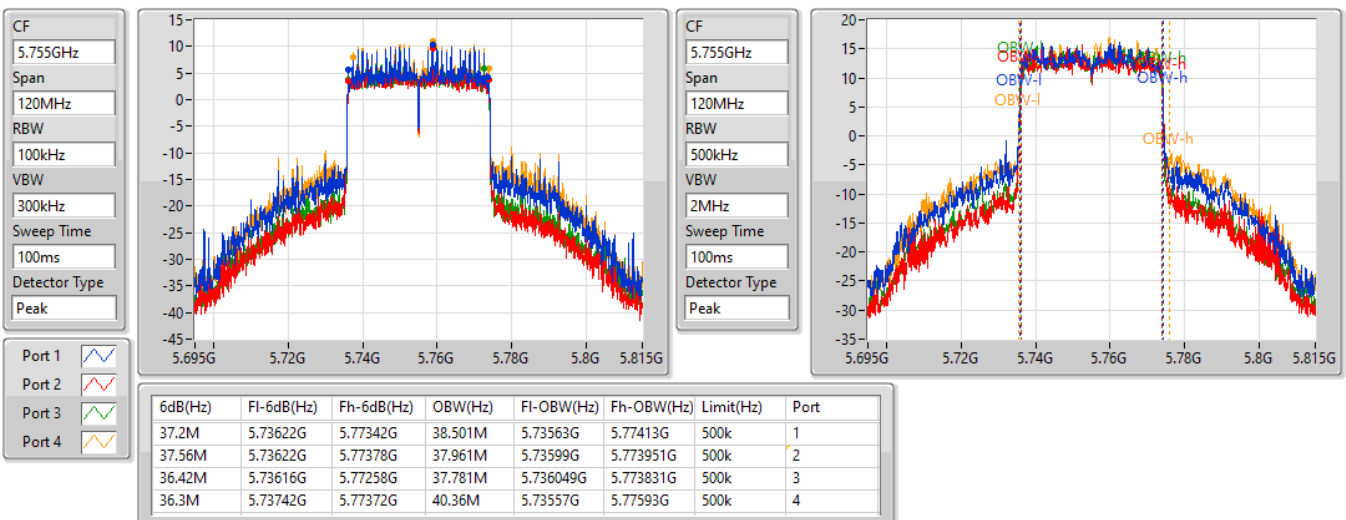


802.11ax HEW40_Nss4,(MCS0)_4TX
EBW
5710MHz Straddle 5.725-5.85GHz

12/06/2021

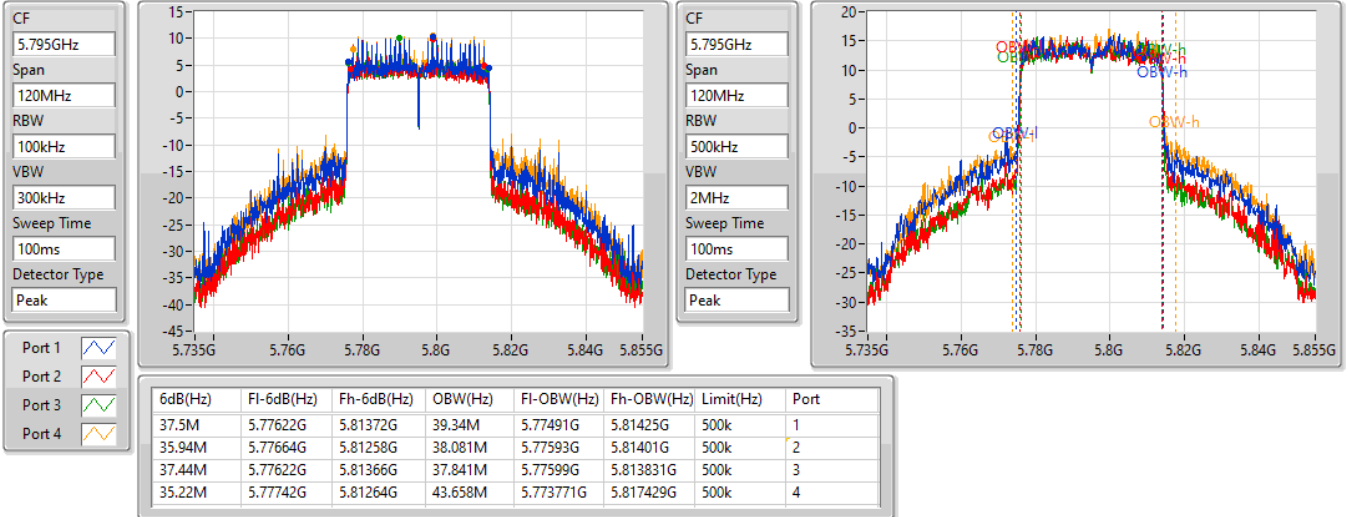

802.11ax HEW40_Nss4,(MCS0)_4TX
EBW
5755MHz

07/05/2021

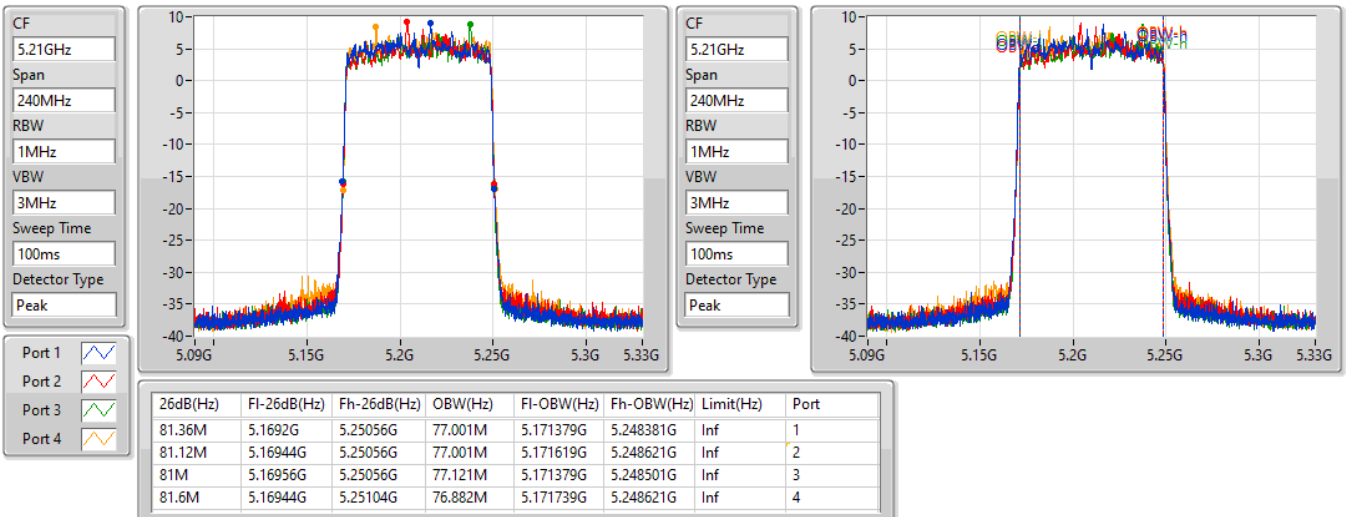


802.11ax HEW40_Nss4,(MCS0)_4TX
EBW
5795MHz

15/05/2021

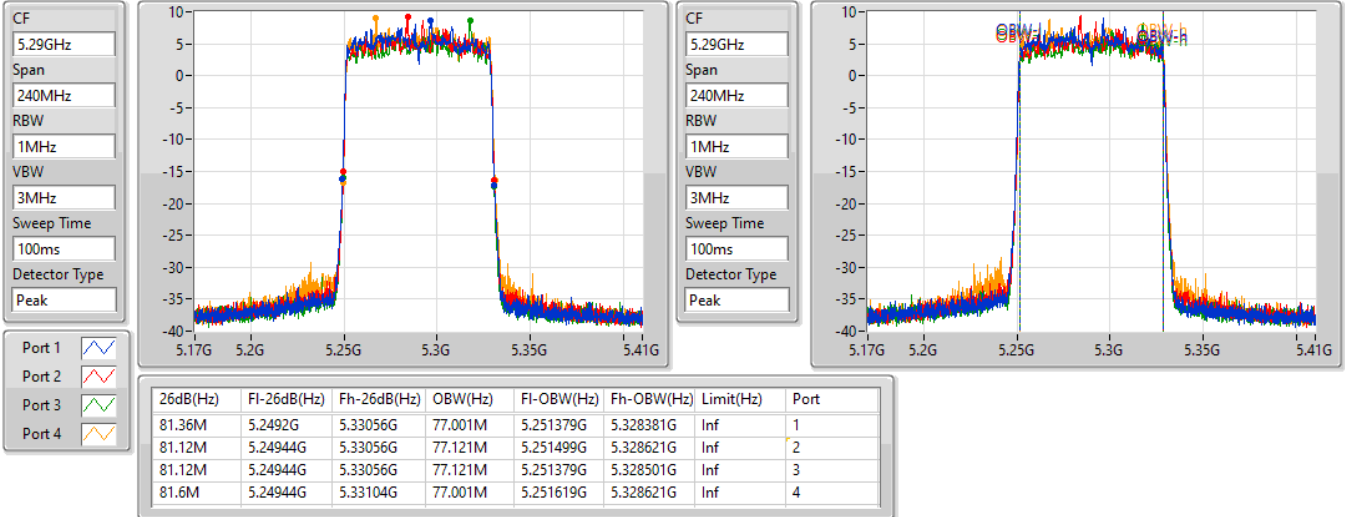

802.11ax HEW80_Nss4,(MCS0)_4TX
EBW
5210MHz

15/05/2021

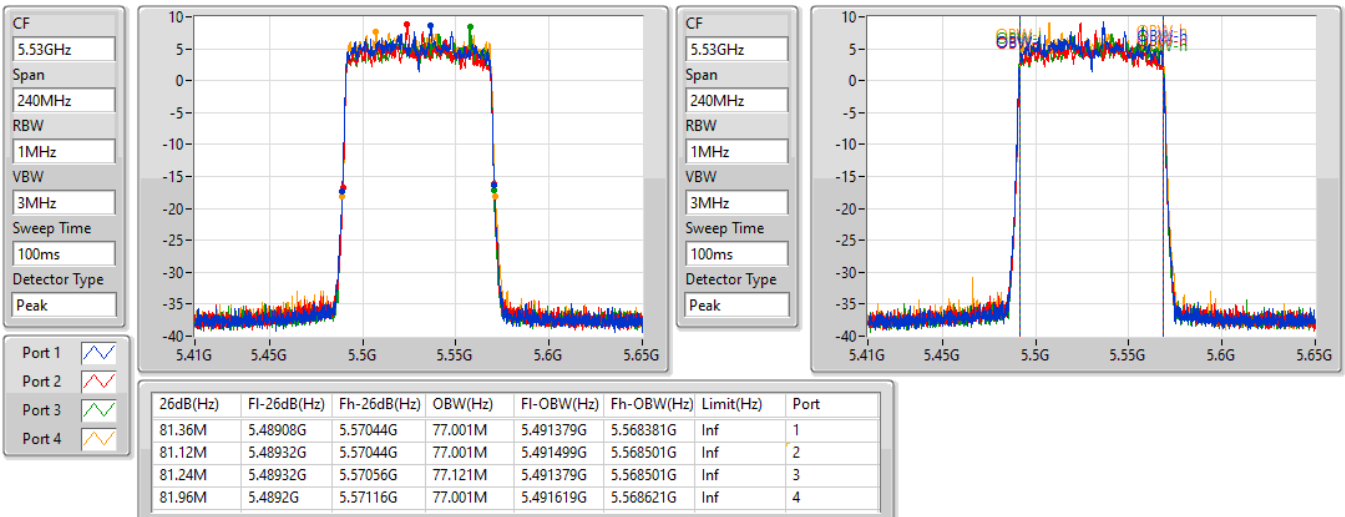


802.11ax HEW80_Nss4,(MCS0)_4TX
EBW
5290MHz

15/05/2021

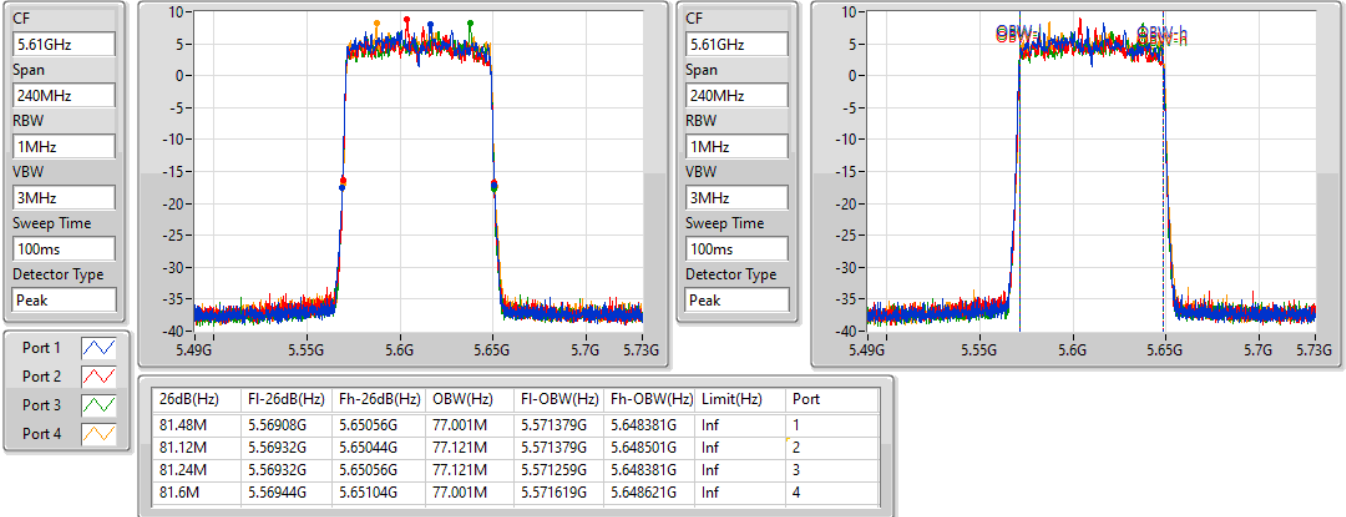

802.11ax HEW80_Nss4,(MCS0)_4TX
EBW
5530MHz

15/05/2021

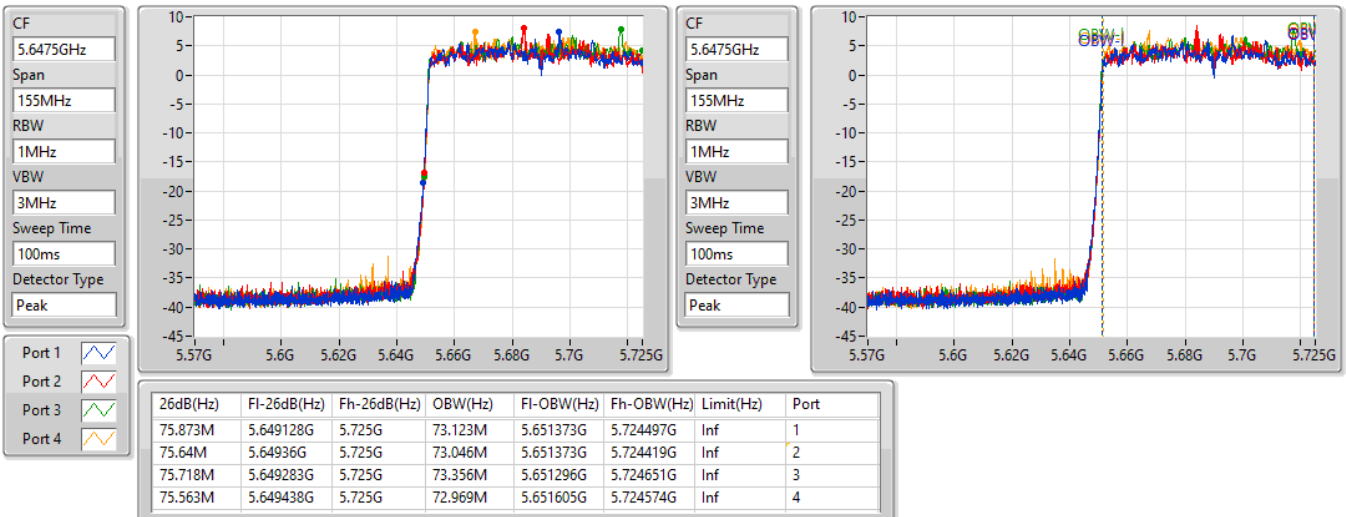


802.11ax HEW80_Nss4,(MCS0)_4TX
EBW
5610MHz

15/05/2021

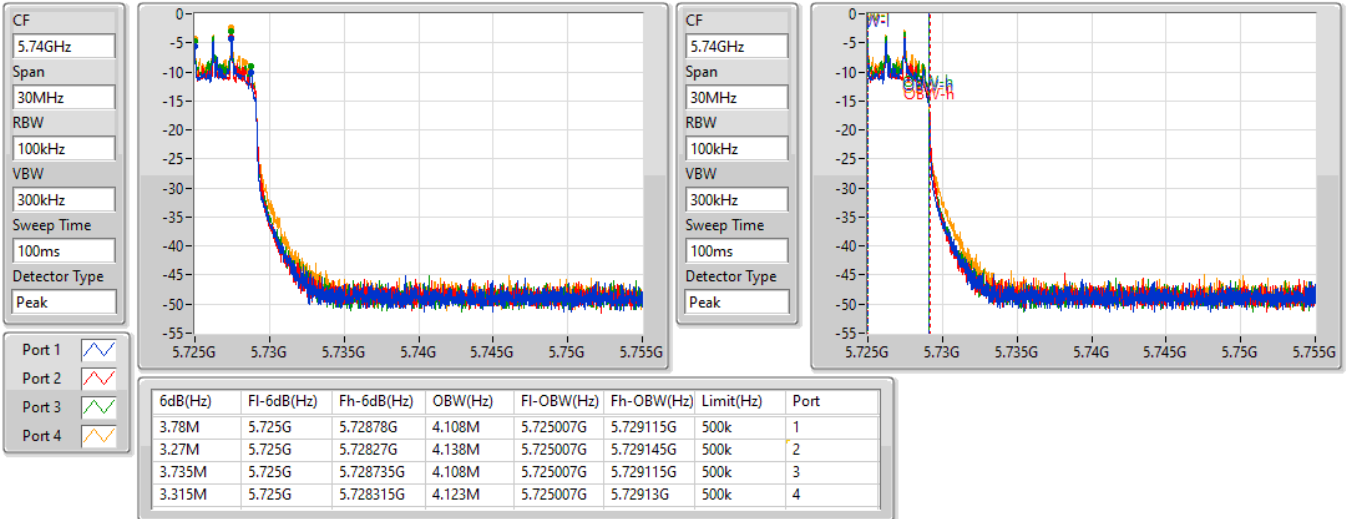

802.11ax HEW80_Nss4,(MCS0)_4TX
EBW
5690MHz Straddle 5.47-5.725GHz

12/06/2021

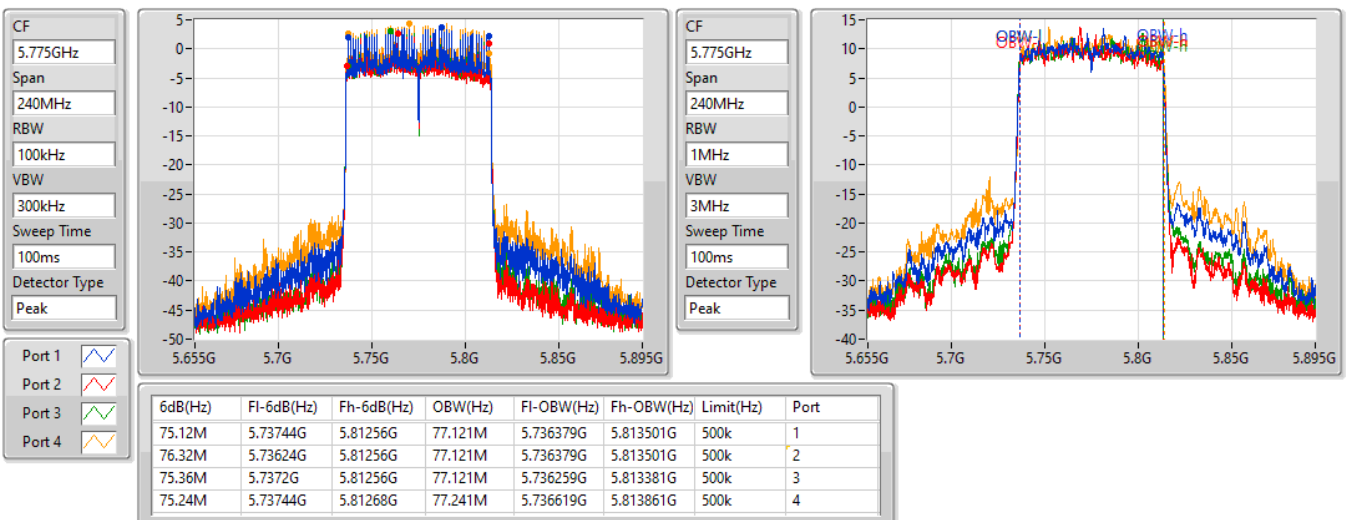


802.11ax HEW80_Nss4,(MCS0)_4TX
EBW
5690MHz Straddle 5.725-5.85GHz

12/06/2021

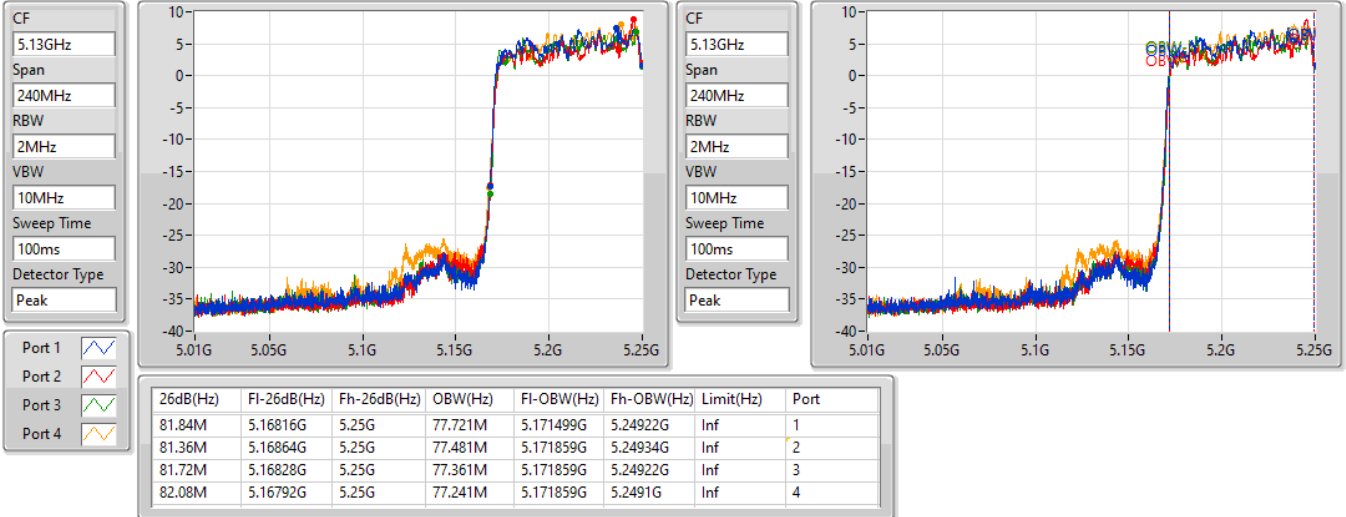

802.11ax HEW80_Nss4,(MCS0)_4TX
EBW
5775MHz

07/05/2021

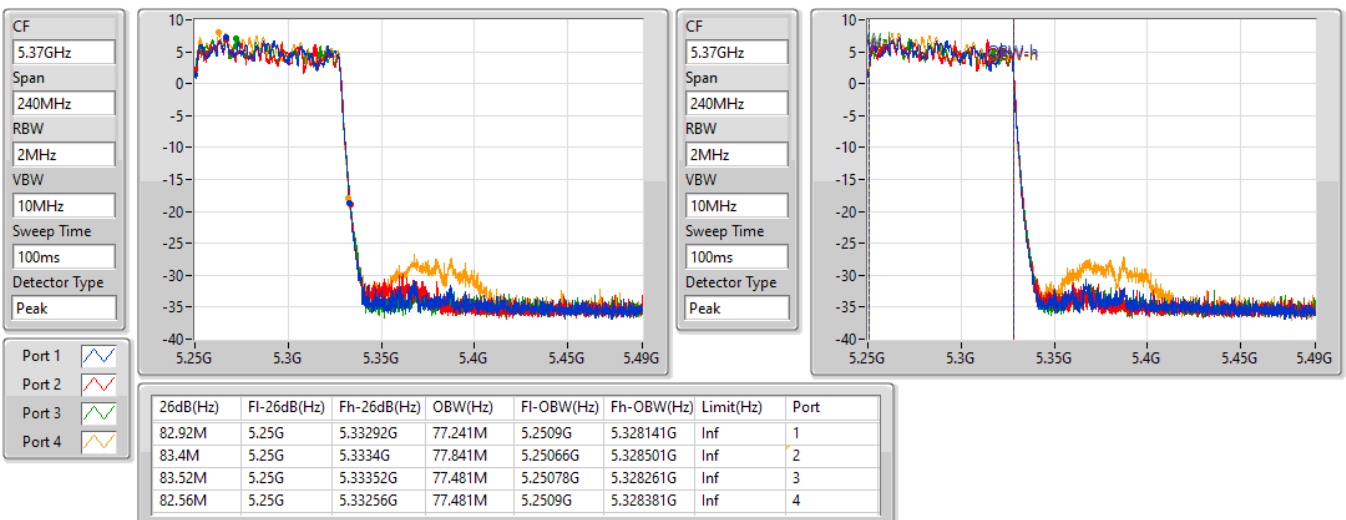


802.11ax HEW160_Nss4,(MCS0)_4TX
EBW
5250MHz Straddle 5.15-5.25GHz

07/05/2021


802.11ax HEW160_Nss4,(MCS0)_4TX
EBW
5250MHz Straddle 5.25-5.35GHz

07/05/2021

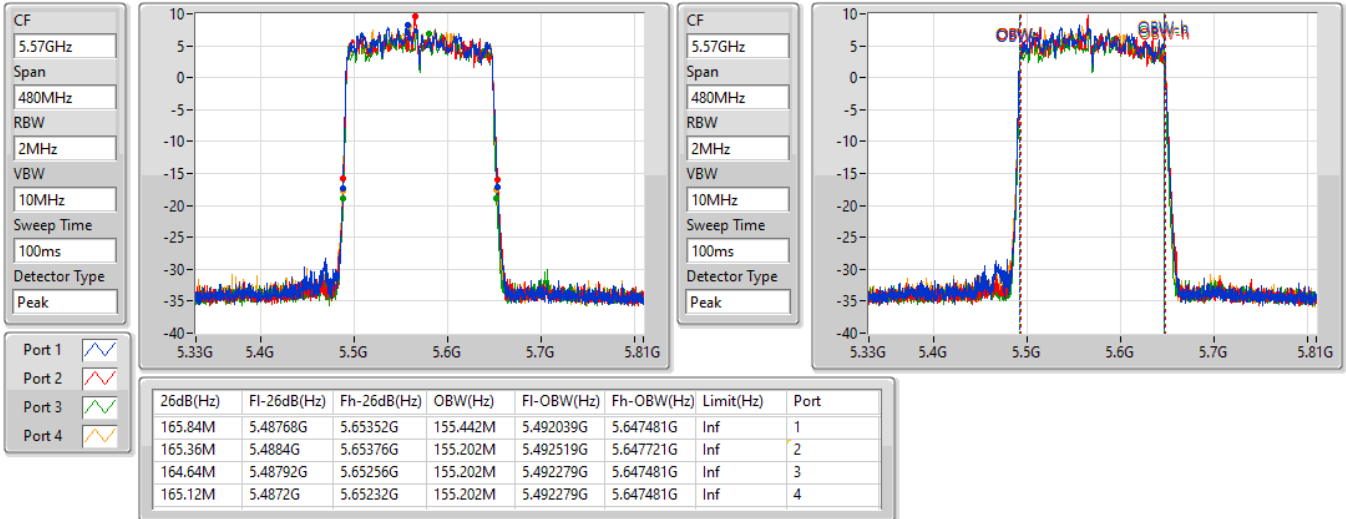


802.11ax HEW160_Nss4,(MCS0)_4TX

EBW

5570MHz

15/05/2021



For Outdoor use (band 1)
Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.15-5.25GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	21.39M	16.852M	16M9D1D	21.36M	16.822M
802.11ax HEW20_Nss1,(MCS0)_1TX	21.51M	19.04M	19M0D1D	21.45M	19.04M
802.11ax HEW40_Nss1,(MCS0)_1TX	40.14M	37.541M	37M5D1D	40.08M	37.541M
802.11ax HEW80_Nss1,(MCS0)_1TX	82.2M	77.241M	77M2D1D	82.2M	77.241M

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

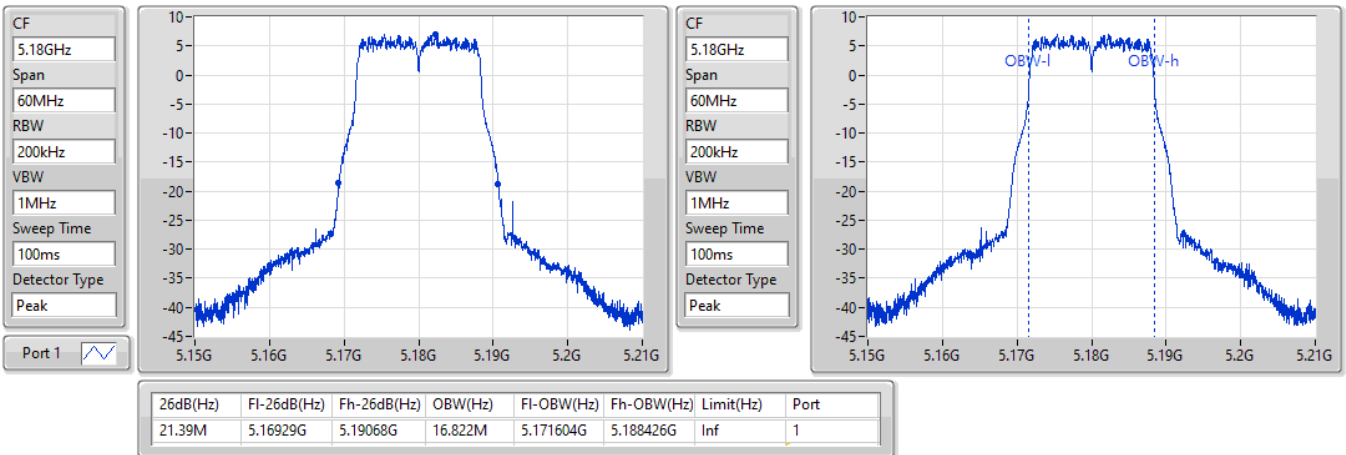
Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
802.11a_Nss1,(6Mbps)_1TX	-	-	-	-
5180MHz	Pass	Inf	21.39M	16.822M
5200MHz	Pass	Inf	21.36M	16.852M
5240MHz	Pass	Inf	21.36M	16.822M
802.11ax HEW20_Nss1,(MCS0)_1TX	-	-	-	-
5180MHz	Pass	Inf	21.45M	19.04M
5200MHz	Pass	Inf	21.45M	19.04M
5240MHz	Pass	Inf	21.51M	19.04M
802.11ax HEW40_Nss1,(MCS0)_1TX	-	-	-	-
5190MHz	Pass	Inf	40.08M	37.541M
5230MHz	Pass	Inf	40.14M	37.541M
802.11ax HEW80_Nss1,(MCS0)_1TX	-	-	-	-
5210MHz	Pass	Inf	82.2M	77.241M

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

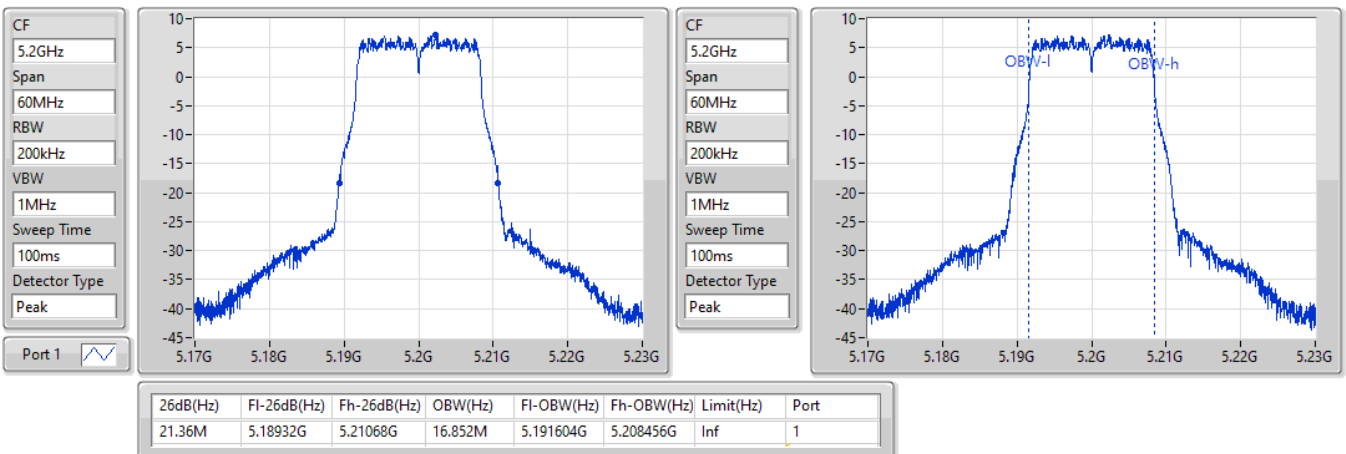
Port X-OBW = Port X 99% occupied bandwidth;

802.11a_Nss1,(6Mbps)_1TX
EBW
5180MHz

11/05/2021


802.11a_Nss1,(6Mbps)_1TX
EBW
5200MHz

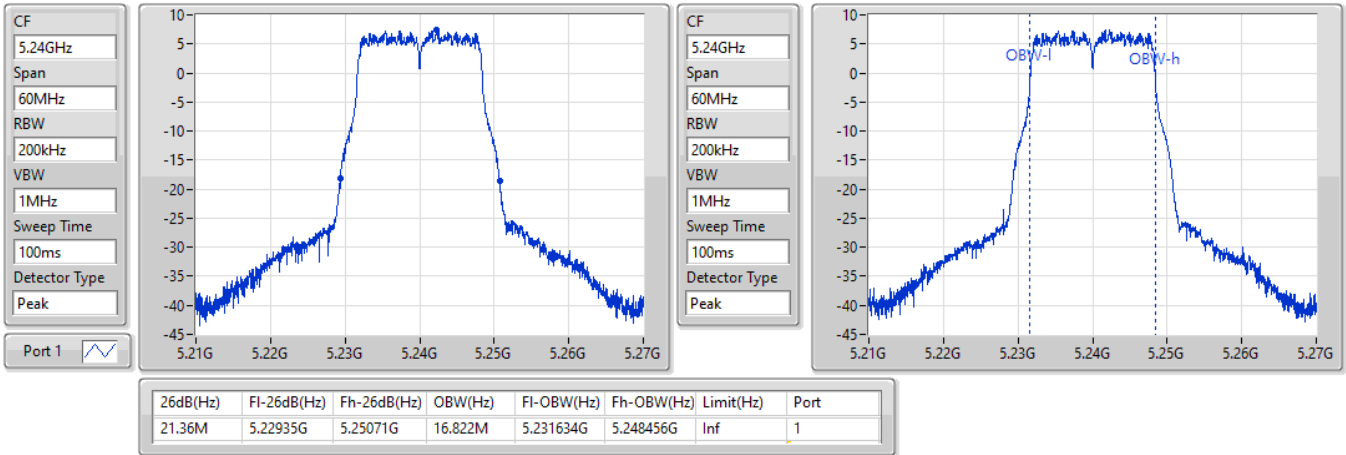
11/05/2021



802.11a_Nss1,(6Mbps)_1TX

EBW
5240MHz

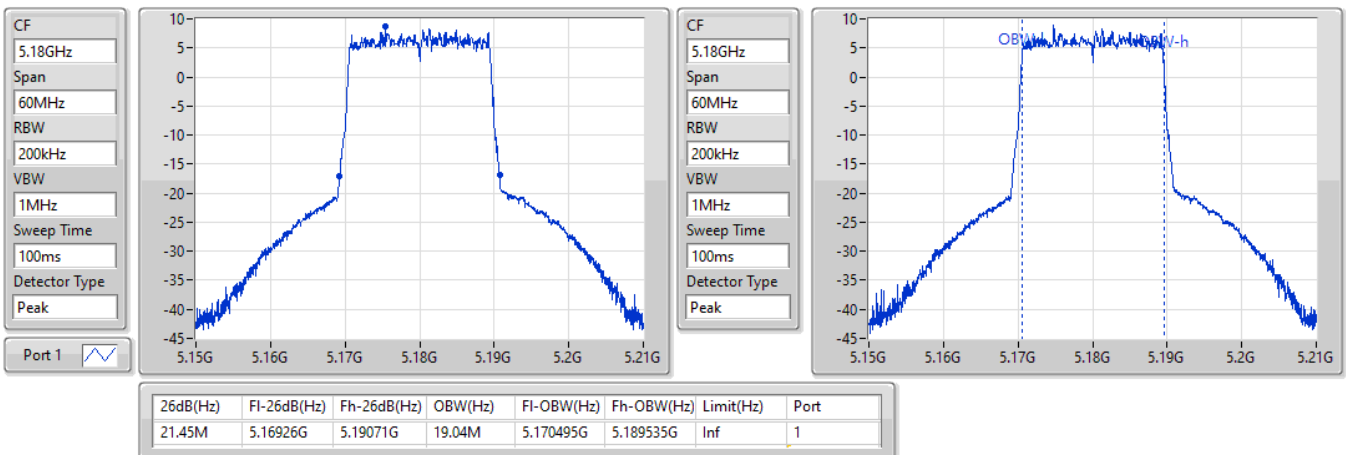
11/05/2021



802.11ax HEW20_Nss1,(MCS0)_1TX

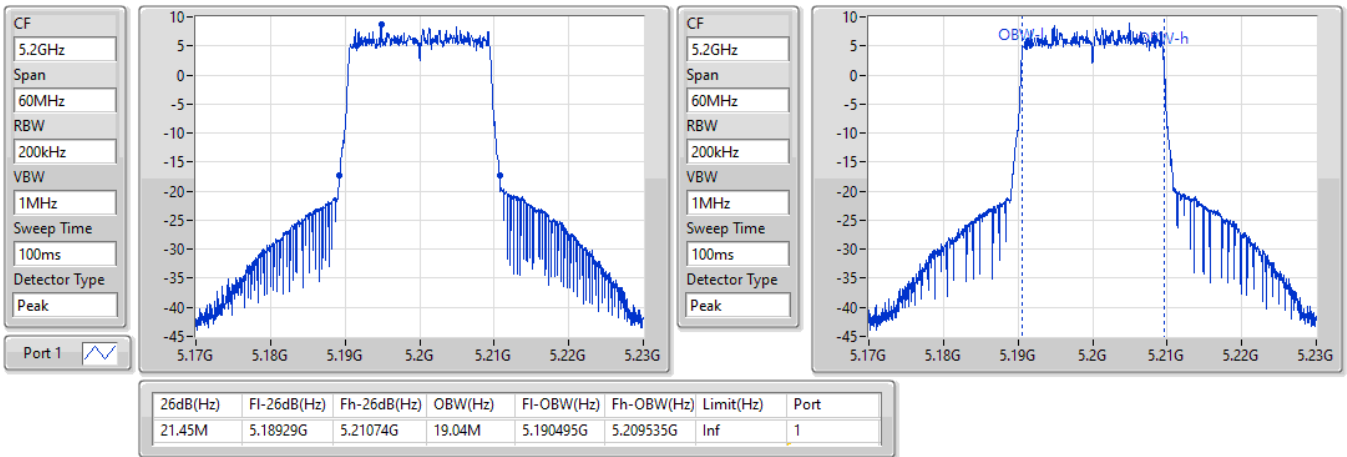
EBW
5180MHz

11/05/2021

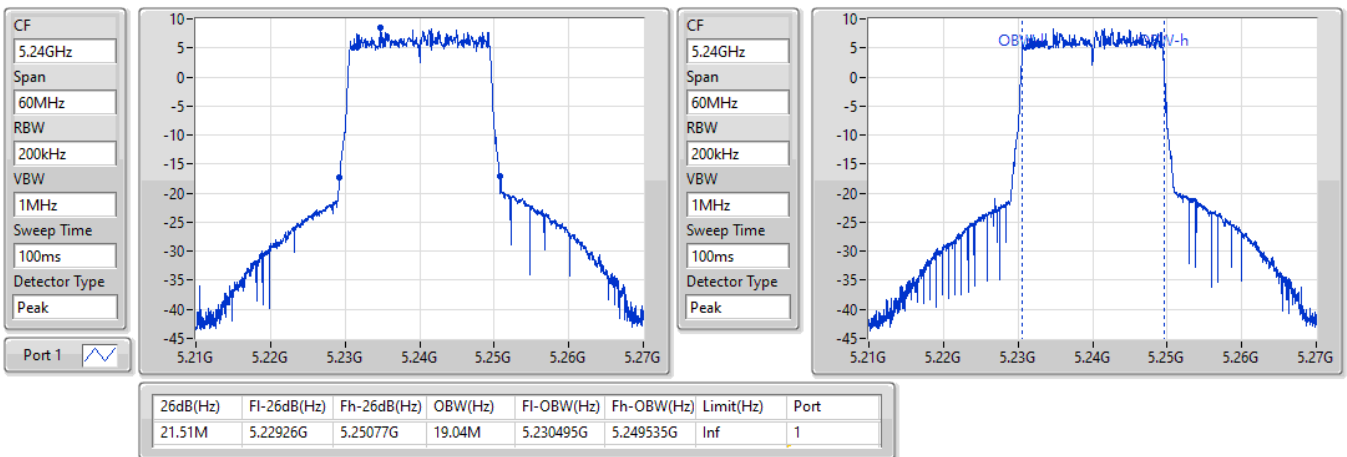


802.11ax HEW20_Nss1,(MCS0)_1TX
EBW
5200MHz

11/05/2021

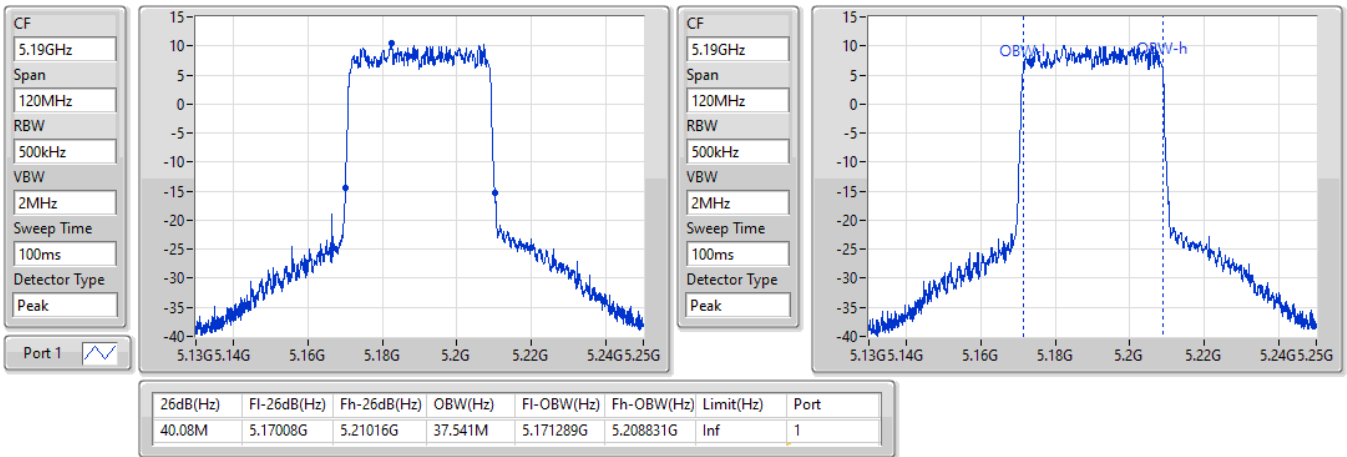

802.11ax HEW20_Nss1,(MCS0)_1TX
EBW
5240MHz

11/05/2021

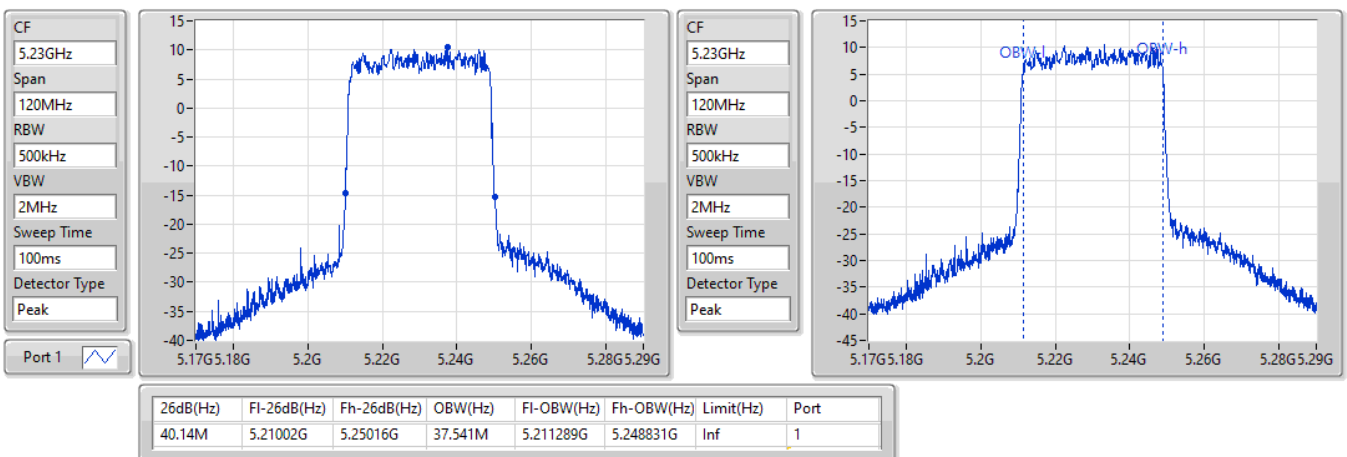


802.11ax HEW40_Nss1,(MCS0)_1TX
EBW
5190MHz

11/05/2021


802.11ax HEW40_Nss1,(MCS0)_1TX
EBW
5230MHz

11/05/2021

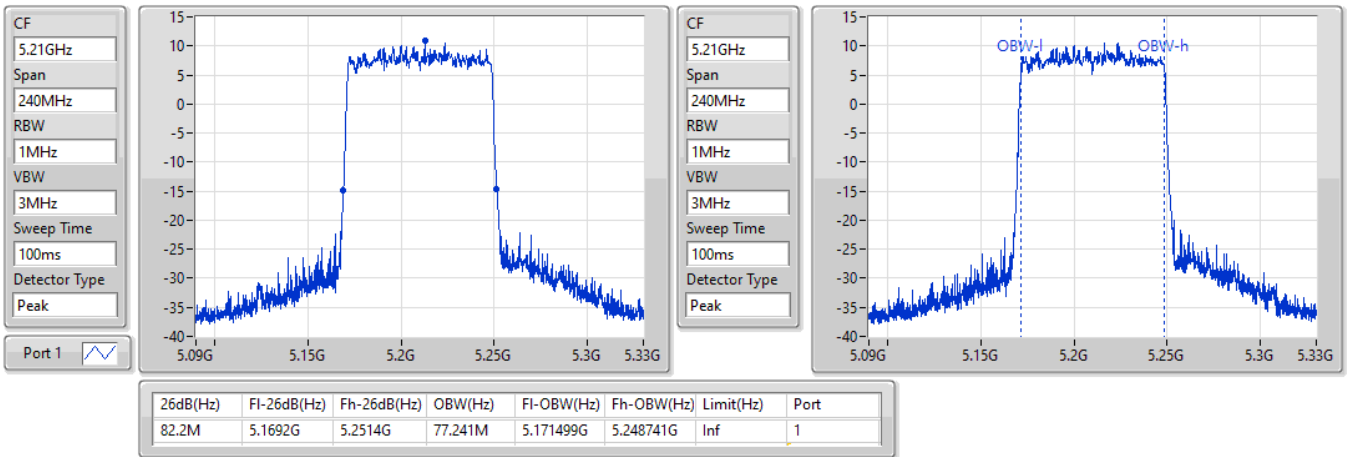


802.11ax HEW80_Nss1,(MCS0)_1TX

EBW

5210MHz

11/05/2021



For Radio 2 / 1T1S
Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.15-5.25GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	21.36M	16.822M	16M8D1D	21.27M	16.822M
802.11ax HEW20_Nss1,(MCS0)_1TX	21.63M	19.07M	19M1D1D	21.54M	19.04M
802.11ax HEW40_Nss1,(MCS0)_1TX	40.14M	37.541M	37M5D1D	40.08M	37.541M
802.11ax HEW80_Nss1,(MCS0)_1TX	81.96M	77.121M	77M1D1D	81.96M	77.121M

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

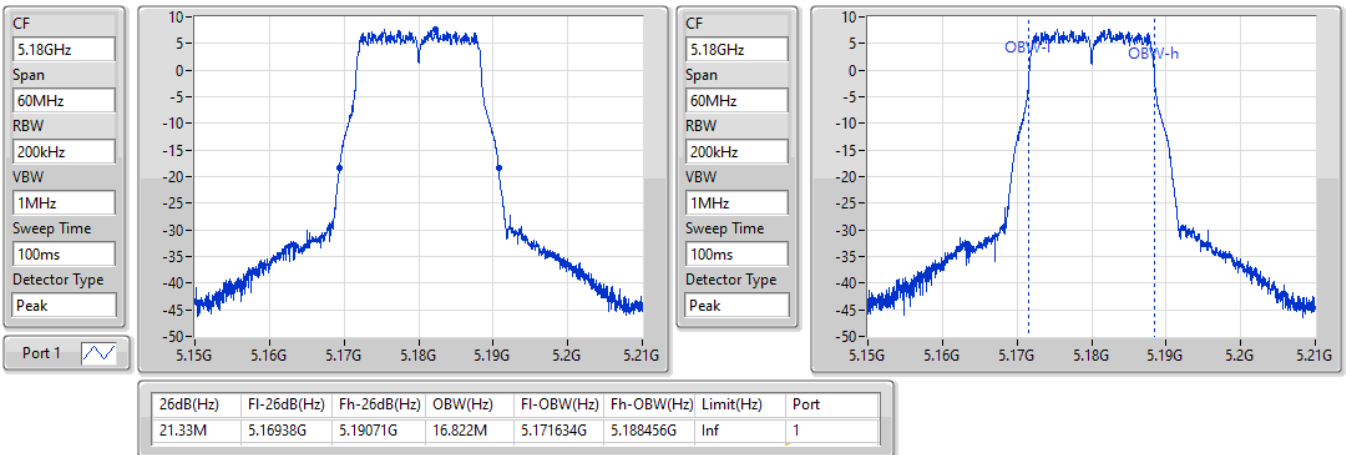
Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
802.11a_Nss1,(6Mbps)_1TX	-	-	-	-
5180MHz	Pass	Inf	21.33M	16.822M
5200MHz	Pass	Inf	21.27M	16.822M
5240MHz	Pass	Inf	21.36M	16.822M
802.11ax HEW20_Nss1,(MCS0)_1TX	-	-	-	-
5180MHz	Pass	Inf	21.63M	19.04M
5200MHz	Pass	Inf	21.54M	19.04M
5240MHz	Pass	Inf	21.54M	19.07M
802.11ax HEW40_Nss1,(MCS0)_1TX	-	-	-	-
5190MHz	Pass	Inf	40.14M	37.541M
5230MHz	Pass	Inf	40.08M	37.541M
802.11ax HEW80_Nss1,(MCS0)_1TX	-	-	-	-
5210MHz	Pass	Inf	81.96M	77.121M

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

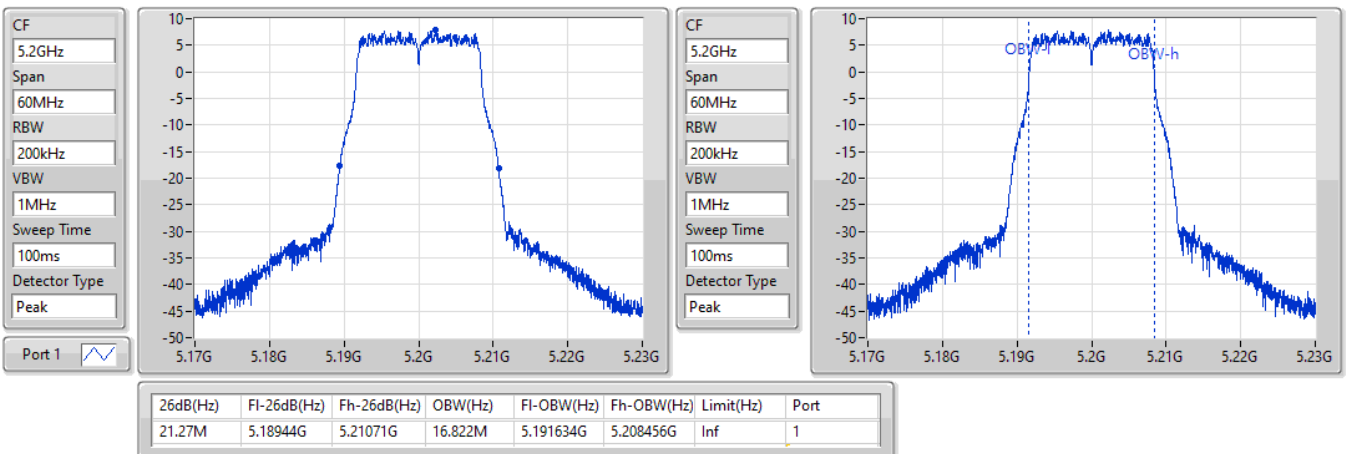
Port X-OBW = Port X 99% occupied bandwidth;

802.11a_Nss1,(6Mbps)_1TX
EBW
5180MHz

11/05/2021


802.11a_Nss1,(6Mbps)_1TX
EBW
5200MHz

11/05/2021

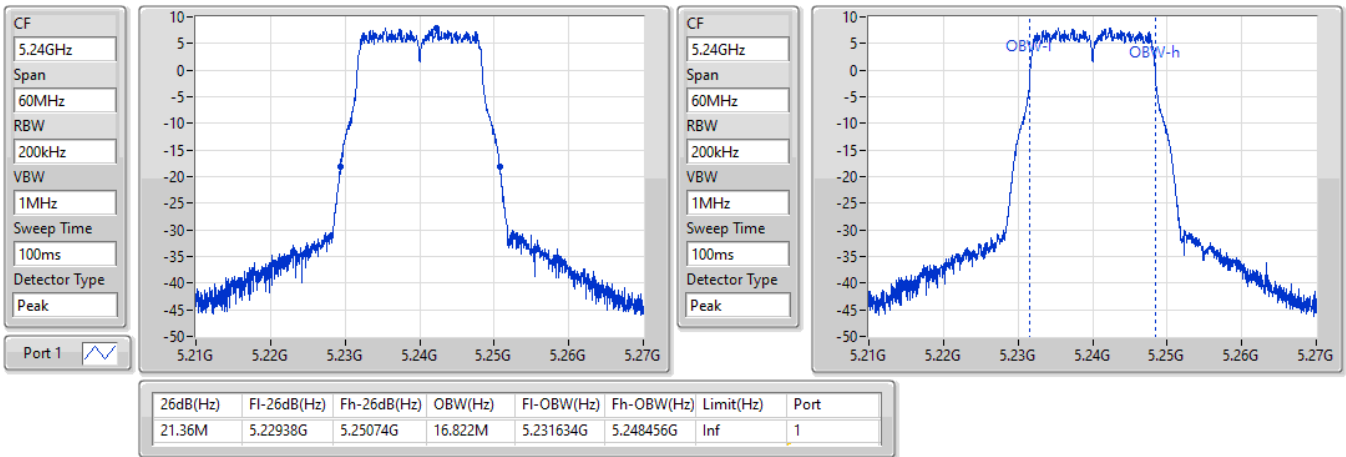


802.11a_Nss1,(6Mbps)_1TX

EBW

5240MHz

11/05/2021

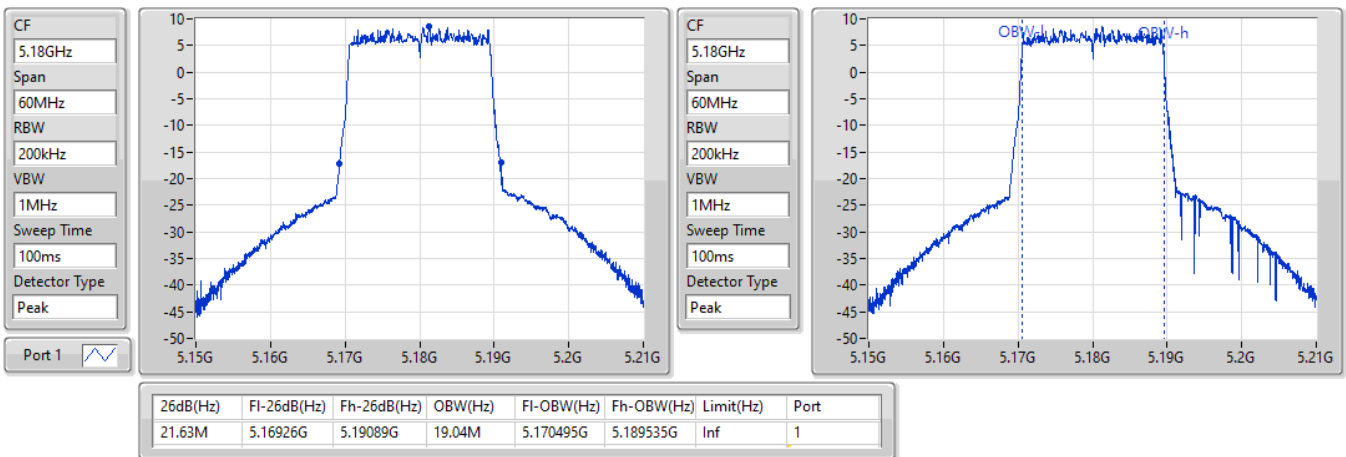


802.11ax HEW20_Nss1,(MCS0)_1TX

EBW

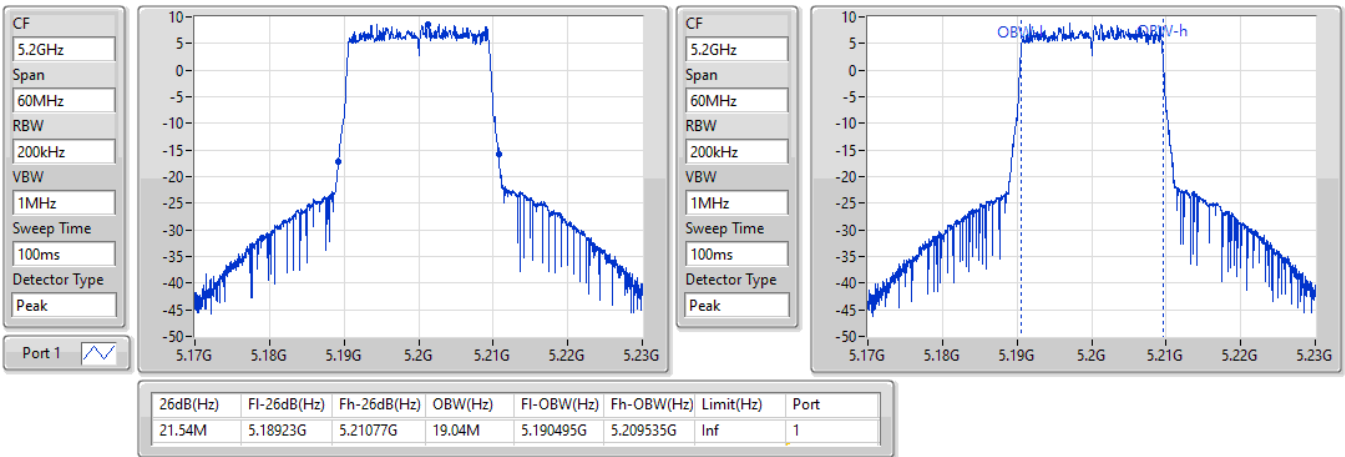
5180MHz

11/05/2021

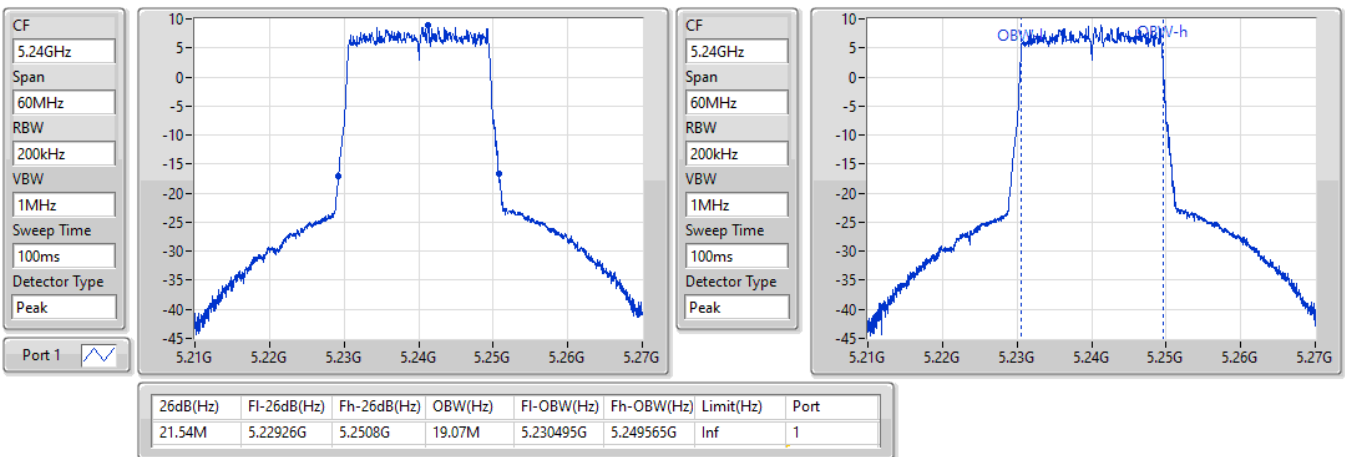


802.11ax HEW20_Nss1,(MCS0)_1TX
EBW
5200MHz

11/05/2021

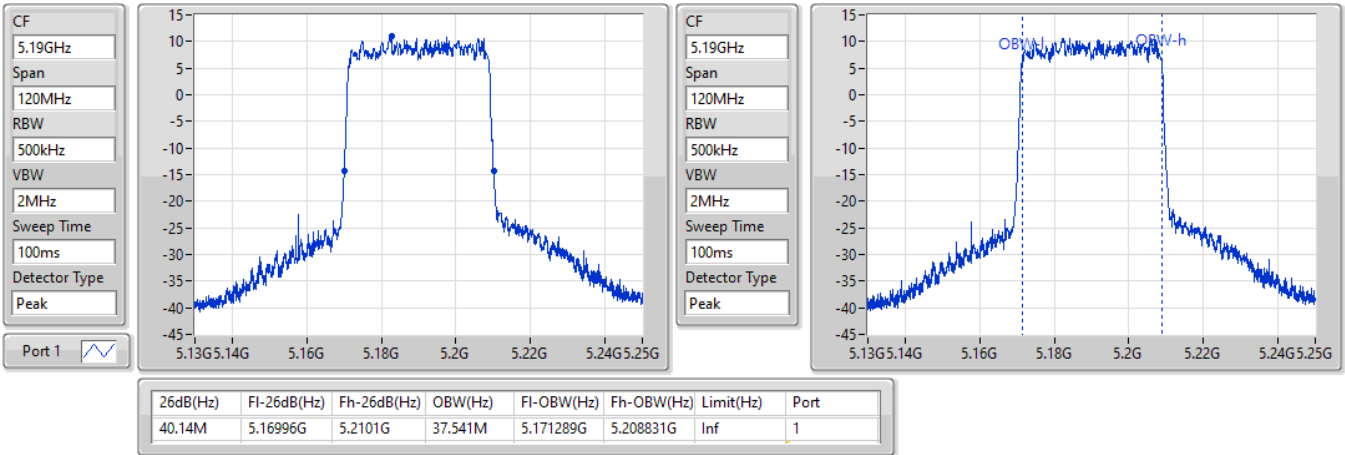

802.11ax HEW20_Nss1,(MCS0)_1TX
EBW
5240MHz

11/05/2021

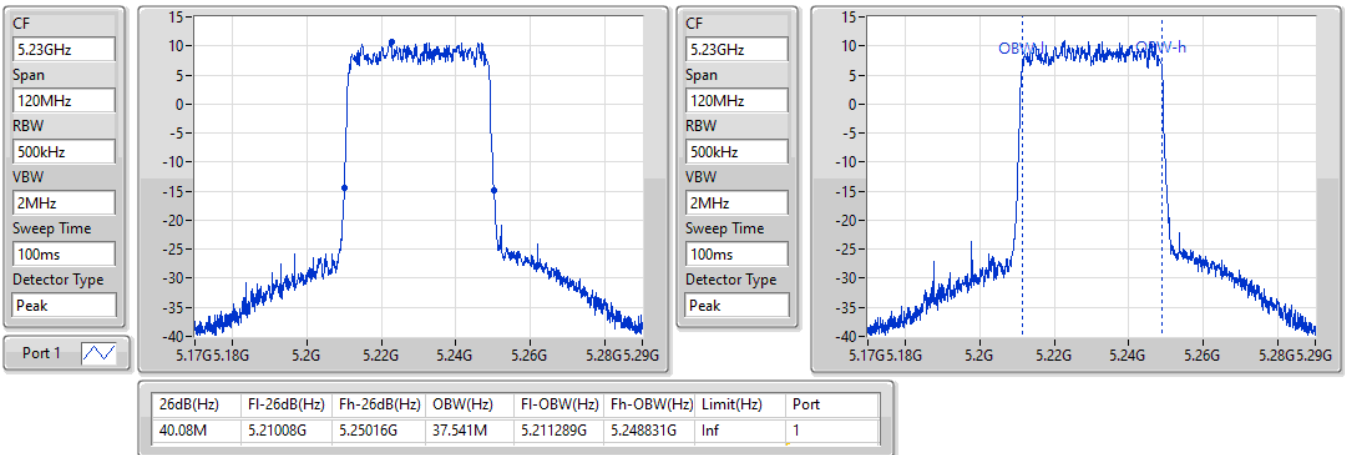


802.11ax HEW40_Nss1,(MCS0)_1TX
EBW
5190MHz

11/05/2021


802.11ax HEW40_Nss1,(MCS0)_1TX
EBW
5230MHz

11/05/2021

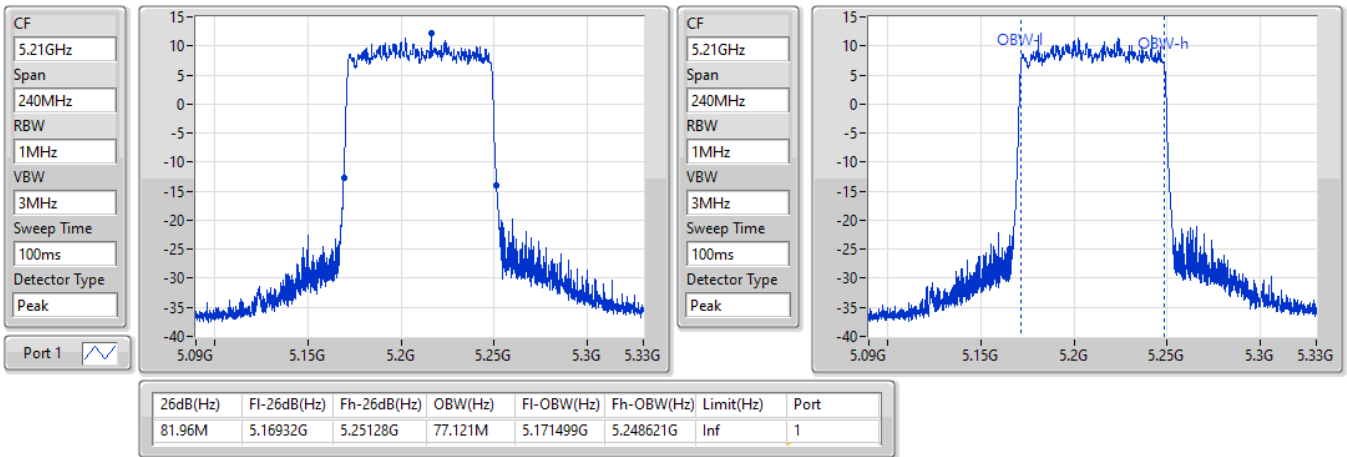


802.11ax HEW80_Nss1,(MCS0)_1TX

EBW

5210MHz

11/05/2021



For Radio 2 / 2T1S
Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.15-5.25GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	21.33M	16.822M	16M8D1D	21.06M	16.642M

Max-N dB = Maximum 6dB down bandwidth for 5.725-5.85GHz band / Maximum 26dB down bandwidth for other band;

Max-OBW = Maximum 99% occupied bandwidth;

Min-N dB = Minimum 6dB down bandwidth for 5.725-5.85GHz band / Maximum 26dB down bandwidth for other band;

Min-OBW = Minimum 99% occupied bandwidth;

Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
5180MHz	Pass	Inf	21.12M	16.642M	21.33M	16.792M
5200MHz	Pass	Inf	21.24M	16.642M	21.33M	16.822M
5240MHz	Pass	Inf	21.06M	16.642M	21.3M	16.792M

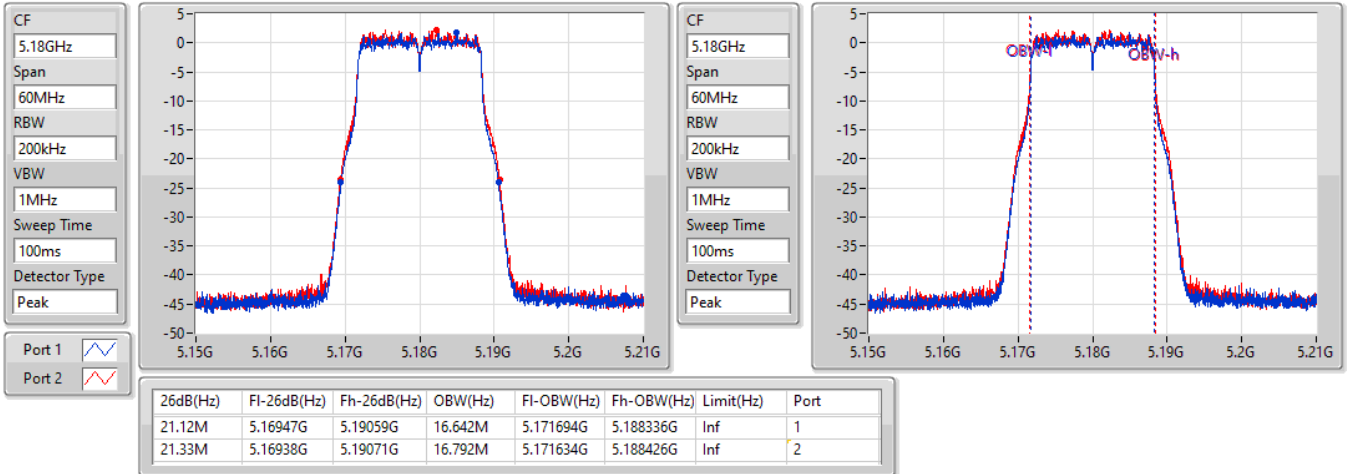
Port X-N dB = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band

Port X-OBW = Port X 99% occupied bandwidth;

802.11a_Nss1,(6Mbps)_2TX

EBW
5180MHz

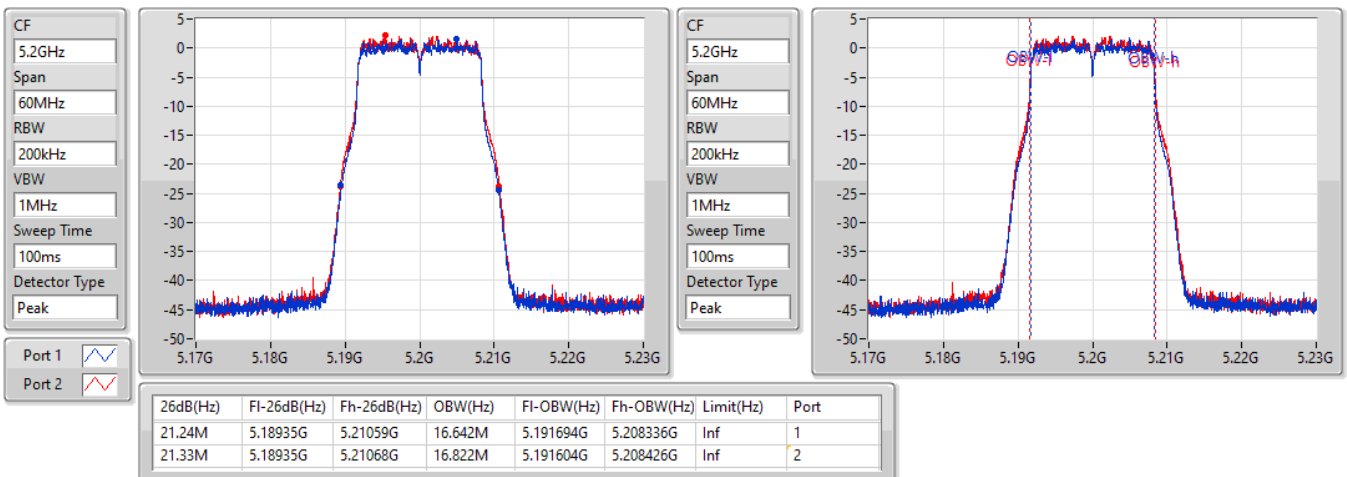
11/05/2021



802.11a_Nss1,(6Mbps)_2TX

EBW
5200MHz

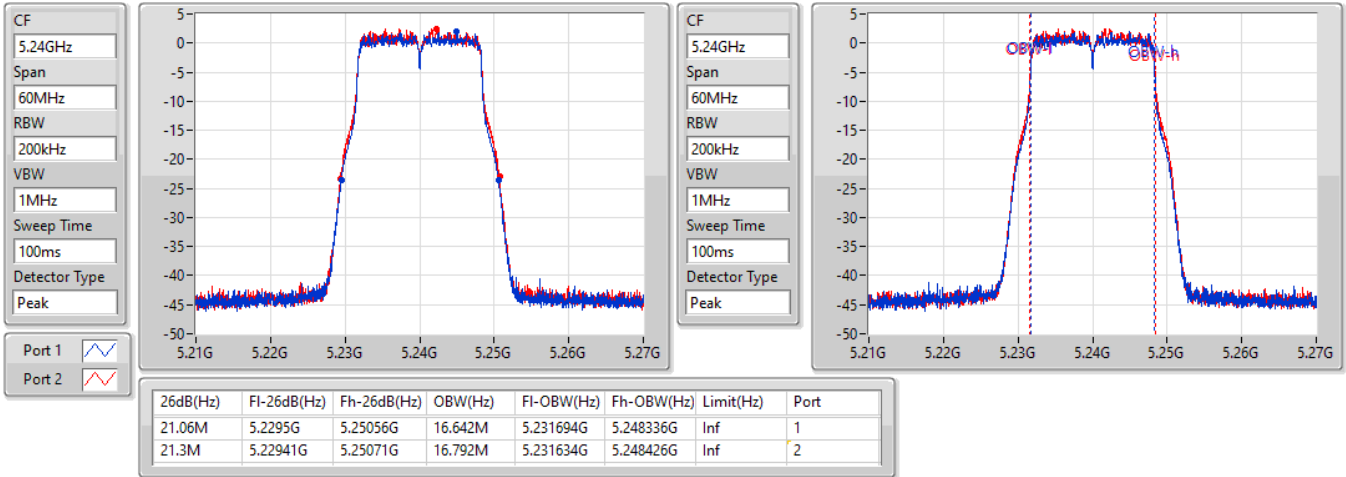
11/05/2021



802.11a_Nss1,(6Mbps)_2TX

5240MHz

11/05/2021



For Radio 2 / 2T2S
Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.15-5.25GHz	-	-	-	-	-
802.11ax HEW20_Nss2,(MCS0)_2TX	21.63M	19.04M	19M0D1D	21.24M	19.01M
802.11ax HEW40_Nss2,(MCS0)_2TX	40.08M	37.601M	37M6D1D	39.96M	37.541M
802.11ax HEW80_Nss2,(MCS0)_2TX	81.48M	77.121M	77M1D1D	81.48M	77.121M

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)
802.11ax HEW20_Nss2,(MCS0)_2TX	-	-	-	-	-	-
5180MHz	Pass	Inf	21.24M	19.04M	21.63M	19.01M
5200MHz	Pass	Inf	21.33M	19.04M	21.54M	19.01M
5240MHz	Pass	Inf	21.3M	19.04M	21.6M	19.01M
802.11ax HEW40_Nss2,(MCS0)_2TX	-	-	-	-	-	-
5190MHz	Pass	Inf	39.96M	37.601M	40.08M	37.601M
5230MHz	Pass	Inf	40.02M	37.541M	40.08M	37.601M
802.11ax HEW80_Nss2,(MCS0)_2TX	-	-	-	-	-	-
5210MHz	Pass	Inf	81.48M	77.121M	81.48M	77.121M

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

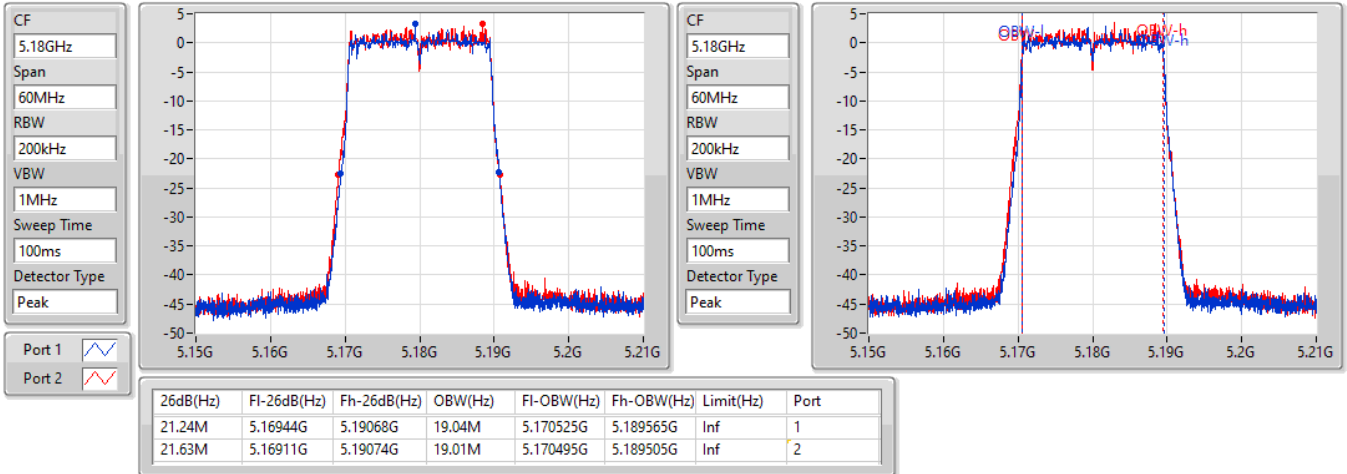
Port X-OBW = Port X 99% occupied bandwidth;

802.11ax HEW20_Nss2,(MCS0)_2TX

EBW

5180MHz

11/05/2021

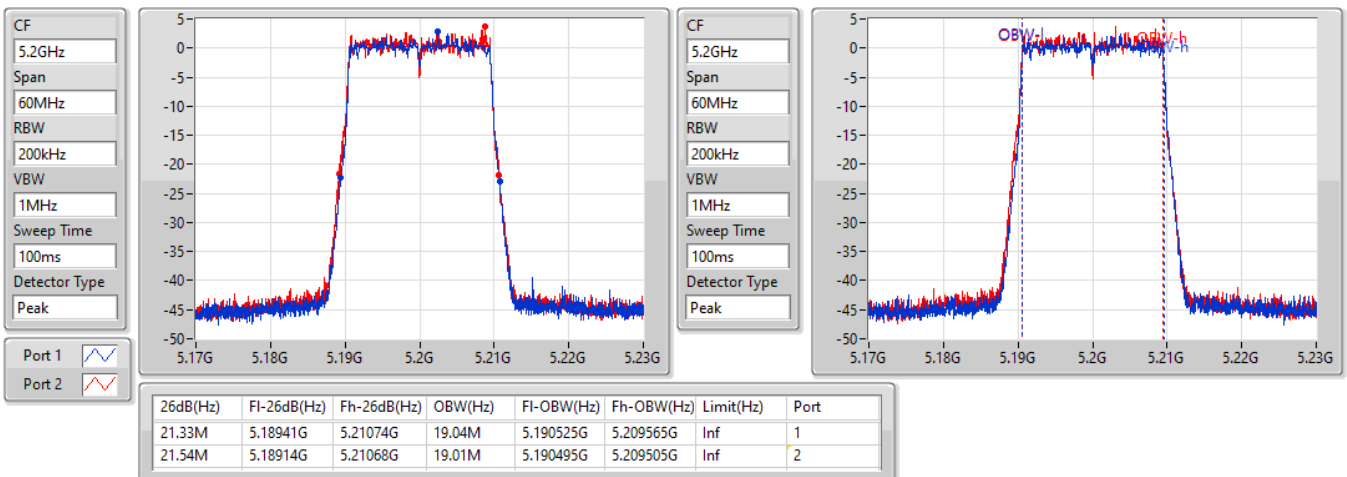


802.11ax HEW20_Nss2,(MCS0)_2TX

EBW

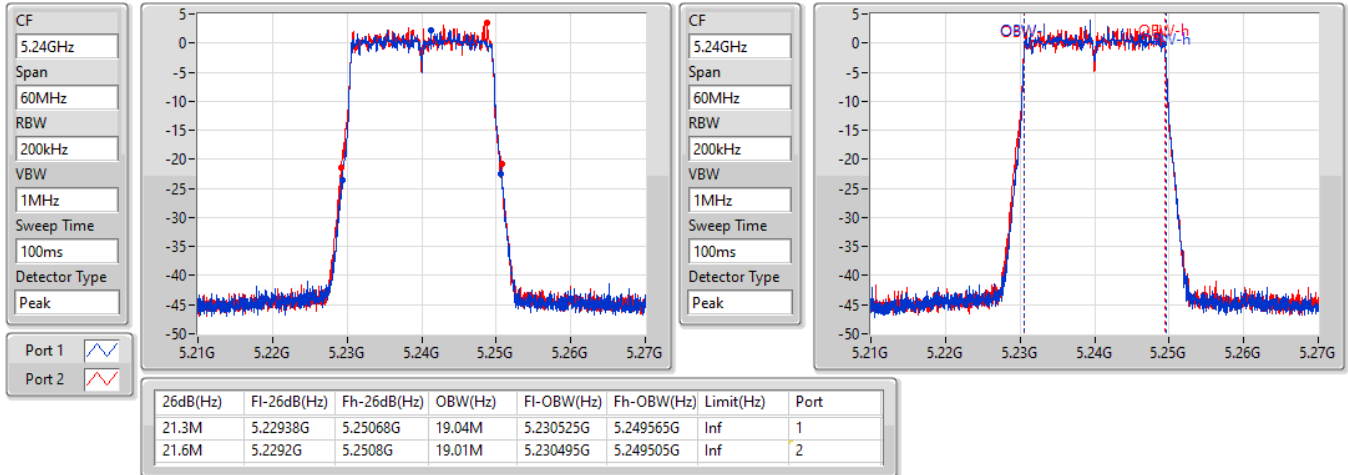
5200MHz

11/05/2021



802.11ax HEW20_Nss2,(MCS0)_2TX
EBW
5240MHz

11/05/2021


802.11ax HEW40_Nss2,(MCS0)_2TX
EBW
5190MHz

11/05/2021

