



FCC RADIO TEST REPORT

FCC ID : UDX-60093010
Equipment : 4x4 Wi-Fi 6 Access Point with External Antennas
Brand Name : CISCO
Model Name : MR46E-HW
Applicant : Cisco Systems
170 West Tasman Drive, San Jose, CA 95134 USA
Manufacturer : Cisco Systems
170 West Tasman Drive, San Jose, CA 95134 USA
Standard : 47 CFR FCC Part 15.407

The product was received on Jun. 20, 2019, and testing was started from Jul. 03, 2019 and completed on Oct. 17, 2019. We, SPORTON INTERNATIONAL INC. EMC & Wireless Communications 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 report must not be used by the client to claim product certification, approval, or endorsement by TAF or any agency of government.

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


Approved by: Cliff Chang

SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory
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TEL : 886-3-656-9065
FAX : 886-3-656-9085
Report Template No.: CB-A12_1 Ver1.0



Summary of Test Result

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

Declaration of Conformity:

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

Comments and Explanations:

The 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: Wendy Pan



1 General Description

1.1 Information

1.1.1 RF General Information

Frequency Range (MHz)	IEEE Std. 802.11	Ch. Frequency (MHz)	Channel Number
5250-5350	a, n (HT20), ac (VHT20), ax (HEW20)	5260-5320	52-64 [4]
5470-5725		5500-5720	100-144 [12]
5250-5350	n (HT40), ac (VHT40), ax (HEW40)	5270-5310	54-62 [2]
5470-5725		5510-5710	102-142 [6]
5250-5350	ac (VHT80), ax (HEW80)	5290	58 [1]
5470-5725		5530-5690	106-138 [3]

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



Band	Mode	BWch (MHz)	Nant
5.47-5.725GHz	802.11ax HEW20	20	1, 2, 4TX
5.47-5.725GHz	802.11ax HEW20-BF	20	2, 4TX
5.47-5.725GHz	802.11n HT40	40	1, 2, 4TX
5.47-5.725GHz	802.11n HT40-BF	40	2, 4TX
5.47-5.725GHz	802.11ac VHT40	40	1, 2, 4TX
5.47-5.725GHz	802.11ac VHT40-BF	40	2, 4TX
5.47-5.725GHz	802.11ax HEW40	40	1, 2, 4TX
5.47-5.725GHz	802.11ax HEW40-BF	40	2, 4TX
5.47-5.725GHz	802.11ac VHT80	80	1, 2, 4TX
5.47-5.725GHz	802.11ac VHT80-BF	80	2, 4TX
5.47-5.725GHz	802.11ax HEW80	80	1, 2, 4TX
5.47-5.725GHz	802.11ax HEW80-BF	80	2, 4TX

Note:

- ♦ 11a, HT20 and HT40 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM modulation.
- ♦ VHT20, VHT40, VHT80 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM, 256QAM modulation.
- ♦ HEW20, HEW40, HEW80 use a combination of OFDMA-BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM modulation.
- ♦ BWch is the nominal channel bandwidth.
- ♦ Nss-Min is the minimum number of spatial streams.
- ♦ Nant is the number of outputs. e.g., 2(2,3) means have 2 outputs for port 2 and port 3. 2 means have 2 outputs for port 1 and port 2.

**1.1.2 Antenna Information**

Set	Brand	Official Model Number	Antenna Type	Connector	Gain (dBi)
1	Cisco	MA-ANT-3-A6	Dipole antenna	RP-TNC	Note 1
2	Cisco	MA-ANT-3-B6	Dipole antenna	RP-TNC	
3	Cisco	MA-ANT-3-C6	Omni antenna	RP-TNC	
4	Cisco	MA-ANT-3-D6	Omni-directional antenna	RP-TNC	
5	Cisco	MA-ANT-3-E6	Wide patch antenna	RP-TNC	
6	Cisco	MA-ANT-3-F6	Narrow patch antenna	RP-TNC	

Note1:

Radio 1 (2.4GHz)												
Set	Antenna Gain (dBi)				Cable Loss (dB)				True Gain (dBi)			
	Port 1	Port 2	Port 3	Port 4	Port 1	Port 2	Port 3	Port 4	Port 1	Port 2	Port 3	Port 4
1	3.80	3.80	3.80	3.80	1.01	0.41	0.41	1.00	2.79	3.39	3.39	2.80
2	3.00	3.00	3.00	3.00	1.01	0.41	0.41	1.00	1.99	2.59	2.59	2.00
3	4.90	4.90	4.90	4.90	1.01	0.41	0.41	1.00	3.89	4.49	4.49	3.90
4	2.90	2.90	2.90	2.90	1.01	0.41	0.41	1.00	1.89	2.49	2.49	1.90
5	7.00	7.00	7.00	7.00	1.01	0.41	0.41	1.00	5.99	6.59	6.59	6.00
6	11.20	11.20	11.20	11.20	1.01	0.41	0.41	1.00	10.19	10.79	10.79	10.20

Radio 2 (5GHz)												
Set	Antenna Gain (dBi)				Cable Loss (dB)				True Gain (dBi)			
	Port 1	Port 2	Port 3	Port 4	Port 1	Port 2	Port 3	Port 4	Port 1	Port 2	Port 3	Port 4
1	5.5	5.5	5.5	5.5	1.53	0.66	0.61	1.54	3.97	4.84	4.89	3.96
2	5.7	5.7	5.7	5.7	1.53	0.66	0.61	1.54	4.17	5.04	5.09	4.16
3	4.9	4.9	4.9	4.9	1.53	0.66	0.61	1.54	3.37	4.24	4.29	3.36
4	3.7	3.7	3.7	3.7	1.53	0.66	0.61	1.54	2.17	3.04	3.09	2.16
5	6.3	6.3	6.3	6.3	1.53	0.66	0.61	1.54	4.77	5.64	5.69	4.76
6	10.8	10.8	10.8	10.8	1.53	0.66	0.61	1.54	9.27	10.14	10.19	9.26



Radio 3 (2.4GHz + 5GHz)						
Set	Antenna Gain (dBi)		Cable Loss (dB)		True Gain (dBi)	
	Port 1		Port 1		Port 1	
	2.4GHz	5GHz	2.4GHz	5GHz	2.4GHz	5GHz
1	3.80	5.50	0.68	1.09	3.12	4.41
2	3.00	5.70	0.68	1.09	2.32	4.61
3	4.90	4.90	0.68	1.09	4.22	3.81
4	2.90	3.70	0.68	1.09	2.22	2.61
5	7.00	6.30	0.68	1.09	6.32	5.21
6	11.20	10.80	0.68	1.09	10.52	9.71

Radio 4 (Bluetooth)			
Set	Antenna Gain (dBi)	Cable Loss (dB)	True Gain (dBi)
	Port 1	Port 1	Port 1
1	3.80	0.56	3.24
2	3.00	0.56	2.44
3	4.90	0.56	4.34
4	2.90	0.56	2.34
5	7.00	0.56	6.44
6	11.20	0.56	10.64

2TX Correlated Composite Gain(dBi) for Radio 1 and Radio 2						
Set	Antenn Gain (dBi)		Cable Loss (dB)		True Gain (dBi)	
	2.4GHz	5GHz	2.4GHz	5GHz	2.4GHz	5GHz
1	4.00	3.30	0.41	0.66	3.59	2.64
3	2.97	4.43	0.41	0.66	2.56	3.77
4	5.29	4.85	0.41	0.66	4.88	4.19
5	11.03	10.04	0.41	0.66	10.62	9.38
6	14.28	14.08	0.41	0.66	13.87	13.42
Set	2TX Directional gain (dBi) for Radio 2					
2	8.05					

4TX Correlated Composite Gain(dBi) for Radio 1 and Radio 2						
Set	Antenn Gain (dBi)		Cable Loss (dB)		True Gain (dBi)	
	2.4GHz	5GHz	2.4GHz	5GHz	2.4GHz	5GHz
1	7.80	7.90	0.41	0.61	7.39	7.29
3	7.50	8.30	0.41	0.61	7.09	7.69
4	7.24	7.94	0.41	0.61	6.83	7.33
5	13.59	12.31	0.41	0.61	13.18	11.70
6	17.17	17.06	0.41	0.61	16.76	16.45
Set	4TX Directional gain (dBi) for Radio 2					
2	11.11					

Note2: The above information was declared by manufacturer.

Note3: The EUT has six set antennas.

The EUT has four radios, Radio 1 supports WLAN 2.4GHz (802.11b/g/n/ax mode), Radio 2 supports WLAN 5GHz (802.11a/n/ac/ax mode), Radio 3 supports WLAN 2.4GHz + 5GHz (scanning radio) and Radio 4 supports Bluetooth function.

Set 1 and Set 2 antennas are the same type antennas, only the higher gain antennas Set 1 for 2.4GHz, Set 2 for 5GHz were tested.

<For Radio 1 (2.4GHz Functions) and Radio 2 (5GHz Functions)>

For 1TX/4RX:

Only Port 1 can be use as transmitting antenna

Port 1, Port 2, Port 3 and Port 4 can be used as receiving antennas.

Port 1, Port 2, Port 3 and Port 4 could receive simultaneously.

For 2TX/4RX:

Only Port 1 and Port 2 can be use as transmitting antenna

Port 1, Port 2, Port 3 and Port 4 can be used as receiving antennas.

Port 1, Port 2, Port 3 and Port 4 could receive simultaneously.

For 4TX/4RX:

Port 1, Port 2, Port 3 and Port 4 can be use as transmitting/receiving antenna

Port 1, Port 2, Port 3 and Port 4 could receive simultaneously.

<For Radio 3 / 2.4GHz + 5GHz Functions>

Only Port 1 can be used as receiving antennas.

<For Radio 4 / Bluetooth Functions>

Only Port 1 can be use as transmitting/receiving antenna.

**1.1.3 Mode Test Duty Cycle****For Set 2, 5 and 6 antennas:****For 1T1S Mode:**

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq 1/T$
802.11a	0.925	0.34	1.435m	1k
802.11ax HEW20	0.949	0.23	5.453m	300
802.11ax HEW40	0.958	0.19	5.456m	300
802.11ax HEW80	0.959	0.18	5.456m	300

For 2T1S Mode:

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq 1/T$
802.11a	0.925	0.34	1.435m	1k
802.11ax HEW20	0.957	0.19	5.456m	300
802.11ax HEW20-BF	0.973	0.12	1.766m	1k
802.11ax HEW40	0.959	0.18	5.456m	300
802.11ax HEW40-BF	0.978	0.1	1.766m	1k
802.11ax HEW80	0.959	0.18	5.456m	300
802.11ax HEW80-BF	0.922	0.35	1.69m	1k

For 4T1S Mode:

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq 1/T$
802.11a	0.925	0.34	1.435m	1k
802.11ax HEW20	0.95	0.22	5.455m	300
802.11ax HEW20-BF	0.859	0.66	1.768m	1k
802.11ax HEW40	0.961	0.17	5.455m	300
802.11ax HEW40-BF	0.925	0.34	1.81m	1k
802.11ax HEW80	0.954	0.2	5.453m	300
802.11ax HEW80-BF	0.921	0.36	1.693m	1k

For Set 3 and 4 antennas:**For 1T1S Mode:**

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq 1/T$
802.11a	0.925	0.34	1.435m	1k
802.11ax HEW20	0.951	0.22	5.455m	300
802.11ax HEW40	0.963	0.16	5.455m	300
802.11ax HEW80	0.95	0.22	5.455m	300

For 2T1S Mode:

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq 1/T$
802.11a	0.925	0.34	1.435m	1k
802.11ax HEW20	0.953	0.21	5.455m	300
802.11ax HEW20-BF	0.974	0.11	1.766m	1k
802.11ax HEW40	0.952	0.21	5.455m	300
802.11ax HEW40-BF	0.975	0.11	1.766m	1k
802.11ax HEW80	0.966	0.15	5.455m	300
802.11ax HEW80-BF	0.975	0.11	1.69m	1k

For 4T1S Mode:

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq 1/T$
802.11a	0.924	0.34	1.435m	1k
802.11ax HEW20	0.95	0.22	5.455m	300
802.11ax HEW20-BF	0.979	0.09	1.766m	1k
802.11ax HEW40	0.949	0.23	5.455m	300
802.11ax HEW40-BF	0.956	0.2	1.765m	1k
802.11ax HEW80	0.95	0.22	5.455m	300
802.11ax HEW80-BF	0.963	0.16	1.69m	1k

Note:

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

1.1.4 EUT Operational Condition

EUT Power Type	From Power Adapter or PoE			
Beamforming Function	☒	With beamforming	☐	Without beamforming
	For 802.11n/ax in 2.4GHz and 802.11n/ac/ax in 5GHz.			
Weather Band	☒	With 5600~5650MHz	☐	Without 5600~5650MHz
Function	☐	Outdoor P2M	☒	Indoor P2M
	☐	Fixed P2P	☐	Client
Test Software Version	For Non-beamforming: QSPR (v5.0-00186) For beamforming: Telnet (6.1.7601)			

Note: The above information was declared by manufacturer.

1.1.5 Table for DDR information

EUT No.	Brand Name	Model No.	Main source	Second source
1	Hynix	H5AN8G6NAFR-UHC	V	-
2	Micron	MT40A512M16LY-075:E	-	V



1.1.6 Table for Class III Change

This product is an extension of original one reported under Sporton project number: FR960317AC

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

Modifications	Performance Checking
Adding 5GHz band 2 and band 3 (5250~5350 MHz, 5470~5725 MHz) for this device.	1. Emission Bandwidth. 2. Maximum Conducted Output Power. 3. Peak Power Spectral Density. 4. Unwanted Emissions above 1GHz



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
- ♦ ANSI C63.10-2013
- ♦ FCC KDB 789033 D02 v02r01
- ♦ FCC KDB 662911 D01 v02r01
- ♦ FCC KDB 412172 D01 v01r01

1.3 Testing Location Information

Testing Location		
☐	HWA YA	ADD : No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.) TEL : 886-3-327-3456 FAX : 886-3-327-0973
☒	JHUBEI	ADD : No.8, Lane 724, Bo-ai St., Jhubei City, HsinChu County 302, Taiwan, R.O.C. TEL : 886-3-656-9065 FAX : 886-3-656-9085

Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date
RF Conducted	TH03-CB	Serway Li	24.6~25°C / 65~69%	Jul. 22, 2019 ~ Aug. 21, 2019
Radiated	03CH01-CB	Eason Chen	27.1~28.3°C / 62~66%	Jul. 03, 2019 ~ Oct. 17, 2019

Test site Designation No. TW0006 with FCC

Test site registered number IC 4086D with Industry Canada.

1.4 Measurement Uncertainty

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

Test Items	Uncertainty	Remark
Radiated Emission (1GHz ~ 18GHz)	4.3 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	5.1 dB	Confidence levels of 95%
Conducted Emission	2.4 dB	Confidence levels of 95%
Output Power Measurement	1.5 dB	Confidence levels of 95%
Power Density Measurement	2.4 dB	Confidence levels of 95%
Bandwidth Measurement	2%	Confidence levels of 95%



2 Test Configuration of EUT

2.1 Test Channel Mode

For Set 2 antennas / 1TX:

For Conducted measurement and Band Edge Emission test:

Mode	PowerSetting
802.11a_Nss1,(6Mbps)_1TX	-
5260MHz	22.5
5300MHz	22.5
5320MHz	22.5
5500MHz	23
5580MHz	22.5
5700MHz	23
5720MHz Straddle 5.47-5.725GHz	23
5720MHz Straddle 5.725-5.85GHz	23
802.11ax HEW20_Nss1,(MCS0)_1TX	-
5260MHz	23
5300MHz	23
5320MHz	23
5500MHz	23
5580MHz	23
5700MHz	22.5
5720MHz Straddle 5.47-5.725GHz	24
5720MHz Straddle 5.725-5.85GHz	24
802.11ax HEW40_Nss1,(MCS0)_1TX	-
5270MHz	23
5310MHz	23
5510MHz	23
5550MHz	23
5670MHz	23
5710MHz Straddle 5.47-5.725GHz	24
5710MHz Straddle 5.725-5.85GHz	24
802.11ax HEW80_Nss1,(MCS0)_1TX	-
5290MHz	22.5
5530MHz	22.5
5610MHz	23
5690MHz Straddle 5.47-5.725GHz	24
5690MHz Straddle 5.725-5.85GHz	24

**For Set 2 antennas / 2TX:****For Conducted measurement and Band Edge Emission test:**

Mode	PowerSetting
802.11a_Nss1,(6Mbps)_2TX	-
5260MHz	17.5
5300MHz	17.5
5320MHz	17.5
5500MHz	17.5
5580MHz	17
5700MHz	17.5
5720MHz Straddle 5.47-5.725GHz	17.5
5720MHz Straddle 5.725-5.85GHz	17.5
802.11ax HEW20_Nss1,(MCS0)_2TX	-
5260MHz	18
5300MHz	18
5320MHz	18
5500MHz	18
5580MHz	18
5700MHz	18
5720MHz Straddle 5.47-5.725GHz	18
5720MHz Straddle 5.725-5.85GHz	18
802.11ax HEW40_Nss1,(MCS0)_2TX	-
5270MHz	20
5310MHz	20
5510MHz	20
5550MHz	20
5670MHz	20
5710MHz Straddle 5.47-5.725GHz	20.5
5710MHz Straddle 5.725-5.85GHz	20.5
802.11ax HEW80_Nss1,(MCS0)_2TX	-
5290MHz	20
5530MHz	20
5610MHz	20
5690MHz Straddle 5.47-5.725GHz	20.5
5690MHz Straddle 5.725-5.85GHz	20.5
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	-
5260MHz	21
5300MHz	21
5320MHz	21
5500MHz	20
5580MHz	20



Mode	PowerSetting
5700MHz	21
5720MHz Straddle 5.47-5.725GHz	21
5720MHz Straddle 5.725-5.85GHz	21
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-
5270MHz	21
5310MHz	21
5510MHz	20
5550MHz	20
5670MHz	21
5710MHz Straddle 5.47-5.725GHz	21
5710MHz Straddle 5.725-5.85GHz	21
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	-
5290MHz	21
5530MHz	20
5610MHz	20
5690MHz Straddle 5.47-5.725GHz	21
5690MHz Straddle 5.725-5.85GHz	21

**For Set 2 antennas / 4TX:****For Conducted measurement and Band Edge Emission test:**

Mode	PowerSetting
802.11a_Nss1,(6Mbps)_4TX	-
5260MHz	11
5300MHz	11
5320MHz	11
5500MHz	11
5580MHz	11
5700MHz	11.5
5720MHz Straddle 5.47-5.725GHz	11.5
5720MHz Straddle 5.725-5.85GHz	11.5
802.11ax HEW20_Nss1,(MCS0)_4TX	-
5260MHz	12
5300MHz	12
5320MHz	12
5500MHz	12
5580MHz	12
5700MHz	12.5
5720MHz Straddle 5.47-5.725GHz	12.5
5720MHz Straddle 5.725-5.85GHz	12.5
802.11ax HEW40_Nss1,(MCS0)_4TX	-
5270MHz	14.5
5310MHz	15
5510MHz	15
5550MHz	15
5670MHz	15.5
5710MHz Straddle 5.47-5.725GHz	15.5
5710MHz Straddle 5.725-5.85GHz	15.5
802.11ax HEW80_Nss1,(MCS0)_4TX	-
5290MHz	17.5
5530MHz	17.5
5610MHz	17.5
5690MHz Straddle 5.47-5.725GHz	17.5
5690MHz Straddle 5.725-5.85GHz	17.5
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	-
5260MHz	17
5300MHz	17
5320MHz	17
5500MHz	17
5580MHz	17



Mode	PowerSetting
5700MHz	18
5720MHz Straddle 5.47-5.725GHz	18
5720MHz Straddle 5.725-5.85GHz	18
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	-
5270MHz	17
5310MHz	17
5510MHz	17
5550MHz	17
5670MHz	18
5710MHz Straddle 5.47-5.725GHz	19
5710MHz Straddle 5.725-5.85GHz	19
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	-
5290MHz	17
5530MHz	17
5610MHz	17
5690MHz Straddle 5.47-5.725GHz	18
5690MHz Straddle 5.725-5.85GHz	18

**For Radiated Emission:**

Mode	Radiated Setting
802.11a_Nss1,(6Mbps)_4TX	-
5260MHz_	27
5300MHz_	27
5320MHz_	27
5500MHz_	27
5580MHz_	27
5700MHz_	27
5720MHz Straddle 5.47-5.725GHz_	27
802.11ax HEW20_Nss1,(MCS0)_4TX	-
5260MHz_	27
5300MHz_	27
5320MHz_	27
5500MHz_	27
5580MHz_	27
5700MHz_	27
5720MHz Straddle 5.47-5.725GHz_	27
802.11ax HEW40_Nss1,(MCS0)_4TX	-
5270MHz_	27
5310MHz_	27
5510MHz_	27
5550MHz_	27
5670MHz_	27
5710MHz Straddle 5.47-5.725GHz_	27
802.11ax HEW80_Nss1,(MCS0)_4TX	-
5290MHz_	27
5530MHz_	27
5610MHz_	27
5690MHz Straddle 5.47-5.725GHz_	27
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	-
5260MHz	24
5300MHz	24
5320MHz	24
5500MHz	24
5580MHz	24
5700MHz	24
5720MHz Straddle 5.47-5.725GHz	24
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	-
5270MHz	24
5310MHz	24



Mode	Radiated Setting
5510MHz	24
5550MHz	24
5670MHz	24
5710MHz Straddle 5.47-5.725GHz	24
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	-
5290MHz	24
5530MHz	24
5610MHz	24
5690MHz Straddle 5.47-5.725GHz	24

**For Set 3 antennas / 1TX:****For Conducted measurement and Band Edge Emission test:**

Mode	PowerSetting
802.11a_Nss1,(6Mbps)_1TX	-
5260MHz	22.5
5300MHz	22.5
5320MHz	22
5500MHz	22.5
5580MHz	22
5700MHz	22.5
5720MHz Straddle 5.47-5.725GHz	22.5
5720MHz Straddle 5.725-5.85GHz	22.5
802.11ax HEW20_Nss1,(MCS0)_1TX	-
5260MHz	23
5300MHz	23
5320MHz	22.5
5500MHz	23
5580MHz	22.5
5700MHz	23
5720MHz Straddle 5.47-5.725GHz	23
5720MHz Straddle 5.725-5.85GHz	23
802.11ax HEW40_Nss1,(MCS0)_1TX	-
5270MHz	23
5310MHz	23
5510MHz	22
5550MHz	23
5670MHz	22.5
5710MHz Straddle 5.47-5.725GHz	23.5
5710MHz Straddle 5.725-5.85GHz	23.5
802.11ax HEW80_Nss1,(MCS0)_1TX	-
5290MHz	23
5530MHz	21.5
5610MHz	22.5
5690MHz Straddle 5.47-5.725GHz	23.5
5690MHz Straddle 5.725-5.85GHz	23.5

**For Set 3 antennas / 2TX:****For Conducted measurement and Band Edge Emission test:**

Mode	PowerSetting
802.11a_Nss1,(6Mbps)_2TX	-
5260MHz	19.5
5300MHz	19.5
5320MHz	19.5
5500MHz	19.5
5580MHz	19
5700MHz	19.5
5720MHz Straddle 5.47-5.725GHz	19.5
5720MHz Straddle 5.725-5.85GHz	19.5
802.11ax HEW20_Nss1,(MCS0)_2TX	-
5260MHz	20
5300MHz	20
5320MHz	20
5500MHz	20
5580MHz	19.5
5700MHz	20
5720MHz Straddle 5.47-5.725GHz	20
5720MHz Straddle 5.725-5.85GHz	20
802.11ax HEW40_Nss1,(MCS0)_2TX	-
5270MHz	20
5310MHz	20
5510MHz	20
5550MHz	20
5670MHz	20
5710MHz Straddle 5.47-5.725GHz	20.5
5710MHz Straddle 5.725-5.85GHz	20.5
802.11ax HEW80_Nss1,(MCS0)_2TX	-
5290MHz	20
5530MHz	20
5610MHz	19.5
5690MHz Straddle 5.47-5.725GHz	20.5
5690MHz Straddle 5.725-5.85GHz	20.5
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	-
5260MHz	23
5300MHz	23
5320MHz	23
5500MHz	22
5580MHz	22



Mode	PowerSetting
5700MHz	23
5720MHz Straddle 5.47-5.725GHz	23
5720MHz Straddle 5.725-5.85GHz	23
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-
5270MHz	23
5310MHz	23
5510MHz	22
5550MHz	22
5670MHz	23
5710MHz Straddle 5.47-5.725GHz	24
5710MHz Straddle 5.725-5.85GHz	24
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	-
5290MHz	23
5530MHz	22
5610MHz	22
5690MHz Straddle 5.47-5.725GHz	23
5690MHz Straddle 5.725-5.85GHz	23

**For Set 3 antennas / 4TX:****For Conducted measurement and Band Edge Emission test:**

Mode	PowerSetting
802.11a_Nss1,(6Mbps)_4TX	-
5260MHz	14.5
5300MHz	14.5
5320MHz	14.5
5500MHz	14.5
5580MHz	14.5
5700MHz	15
5720MHz Straddle 5.47-5.725GHz	15
5720MHz Straddle 5.725-5.85GHz	15
802.11ax HEW20_Nss1,(MCS0)_4TX	-
5260MHz	15
5300MHz	15
5320MHz	15
5500MHz	15
5580MHz	15
5700MHz	15.5
5720MHz Straddle 5.47-5.725GHz	15.5
5720MHz Straddle 5.725-5.85GHz	15.5
802.11ax HEW40_Nss1,(MCS0)_4TX	-
5270MHz	16.5
5310MHz	16.5
5510MHz	16.5
5550MHz	16.5
5670MHz	17
5710MHz Straddle 5.47-5.725GHz	17.5
5710MHz Straddle 5.725-5.85GHz	17.5
802.11ax HEW80_Nss1,(MCS0)_4TX	-
5290MHz	16.5
5530MHz	16.5
5610MHz	16.5
5690MHz Straddle 5.47-5.725GHz	17
5690MHz Straddle 5.725-5.85GHz	17
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	-
5260MHz	21
5300MHz	21
5320MHz	21
5500MHz	20
5580MHz	20



Mode	PowerSetting
5700MHz	21
5720MHz Straddle 5.47-5.725GHz	21
5720MHz Straddle 5.725-5.85GHz	21
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	-
5270MHz	21
5310MHz	21
5510MHz	20
5550MHz	20
5670MHz	21
5710MHz Straddle 5.47-5.725GHz	22
5710MHz Straddle 5.725-5.85GHz	22
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	-
5290MHz	21
5530MHz	20
5610MHz	20
5690MHz Straddle 5.47-5.725GHz	22
5690MHz Straddle 5.725-5.85GHz	22

**For Radiated Emission:**

Mode	Radiated Setting
802.11a_Nss1,(6Mbps)_4TX	-
5260MHz	27
5300MHz	27
5320MHz	27
5500MHz	27
5580MHz	27
5700MHz	27
5720MHz Straddle 5.47-5.725GHz	27
802.11ax HEW20_Nss1,(MCS0)_4TX	-
5260MHz	27
5300MHz	27
5320MHz	27
5500MHz	27
5580MHz	27
5700MHz	27
5720MHz Straddle 5.47-5.725GHz	27
802.11ax HEW40_Nss1,(MCS0)_4TX	-
5270MHz	27
5310MHz	27
5510MHz	27
5550MHz	27
5670MHz	27
5710MHz Straddle 5.47-5.725GHz	27
802.11ax HEW80_Nss1,(MCS0)_4TX	-
5290MHz	27
5530MHz	27
5610MHz	27
5690MHz Straddle 5.47-5.725GHz	27
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	-
5260MHz	24
5300MHz	24
5320MHz	24
5500MHz	24
5580MHz	24
5700MHz	24
5720MHz Straddle 5.47-5.725GHz	24
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	-
5270MHz	24
5310MHz	24



Mode	Radiated Setting
5510MHz	24
5550MHz	24
5670MHz	24
5710MHz Straddle 5.47-5.725GHz	24
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	-
5290MHz	24
5530MHz	24
5610MHz	24
5690MHz Straddle 5.47-5.725GHz	24

**For Set 4 antennas / 1TX:****For Conducted measurement and Band Edge Emission test:**

Mode	PowerSetting
802.11a_Nss1,(6Mbps)_1TX	-
5260MHz	22.5
5300MHz	22.5
5320MHz	22
5500MHz	22.5
5580MHz	22
5700MHz	22.5
5720MHz Straddle 5.47-5.725GHz	22.5
5720MHz Straddle 5.725-5.85GHz	22.5
802.11ax HEW20_Nss1,(MCS0)_1TX	-
5260MHz	23
5300MHz	23
5320MHz	22.5
5500MHz	23
5580MHz	22.5
5700MHz	22.5
5720MHz Straddle 5.47-5.725GHz	23
5720MHz Straddle 5.725-5.85GHz	23
802.11ax HEW40_Nss1,(MCS0)_1TX	-
5270MHz	23
5310MHz	23
5510MHz	22.5
5550MHz	23
5670MHz	23
5710MHz Straddle 5.47-5.725GHz	23.5
5710MHz Straddle 5.725-5.85GHz	23.5
802.11ax HEW80_Nss1,(MCS0)_1TX	-
5290MHz	23
5530MHz	22
5610MHz	22.5
5690MHz Straddle 5.47-5.725GHz	23.5
5690MHz Straddle 5.725-5.85GHz	23.5

**For Set 4 antennas / 2TX:****For Conducted measurement and Band Edge Emission test:**

Mode	PowerSetting
802.11a_Nss1,(6Mbps)_2TX	-
5260MHz	19.5
5300MHz	19.5
5320MHz	19.5
5500MHz	19.5
5580MHz	19
5700MHz	19.5
5720MHz Straddle 5.47-5.725GHz	19.5
5720MHz Straddle 5.725-5.85GHz	19.5
802.11ax HEW20_Nss1,(MCS0)_2TX	-
5260MHz	20
5300MHz	20
5320MHz	20
5500MHz	20
5580MHz	19.5
5700MHz	20
5720MHz Straddle 5.47-5.725GHz	20
5720MHz Straddle 5.725-5.85GHz	20
802.11ax HEW40_Nss1,(MCS0)_2TX	-
5270MHz	20
5310MHz	20
5510MHz	20
5550MHz	20
5670MHz	20
5710MHz Straddle 5.47-5.725GHz	20.5
5710MHz Straddle 5.725-5.85GHz	20.5
802.11ax HEW80_Nss1,(MCS0)_2TX	-
5290MHz	20
5530MHz	20
5610MHz	19.5
5690MHz Straddle 5.47-5.725GHz	20.5
5690MHz Straddle 5.725-5.85GHz	20.5
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	-
5260MHz	23
5300MHz	23
5320MHz	23
5500MHz	22
5580MHz	22



Mode	PowerSetting
5700MHz	23
5720MHz Straddle 5.47-5.725GHz	23
5720MHz Straddle 5.725-5.85GHz	23
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-
5270MHz	23
5310MHz	23
5510MHz	22
5550MHz	22
5670MHz	23
5710MHz Straddle 5.47-5.725GHz	24
5710MHz Straddle 5.725-5.85GHz	24
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	-
5290MHz	23
5530MHz	22
5610MHz	22
5690MHz Straddle 5.47-5.725GHz	23
5690MHz Straddle 5.725-5.85GHz	23

**For Set 4 antennas / 4TX:****For Conducted measurement and Band Edge Emission test:**

Mode	PowerSetting
802.11a_Nss1,(6Mbps)_4TX	-
5260MHz	15
5300MHz	15
5320MHz	15
5500MHz	15
5580MHz	15
5700MHz	15.5
5720MHz Straddle 5.47-5.725GHz	15.5
5720MHz Straddle 5.725-5.85GHz	15.5
802.11ax HEW20_Nss1,(MCS0)_4TX	-
5260MHz	15.5
5300MHz	15.5
5320MHz	15.5
5500MHz	15.5
5580MHz	15.5
5700MHz	16
5720MHz Straddle 5.47-5.725GHz	16
5720MHz Straddle 5.725-5.85GHz	16
802.11ax HEW40_Nss1,(MCS0)_4TX	-
5270MHz	16.5
5310MHz	16.5
5510MHz	16.5
5550MHz	16.5
5670MHz	17
5710MHz Straddle 5.47-5.725GHz	17.5
5710MHz Straddle 5.725-5.85GHz	17.5
802.11ax HEW80_Nss1,(MCS0)_4TX	-
5290MHz	16.5
5530MHz	16.5
5610MHz	16.5
5690MHz Straddle 5.47-5.725GHz	17
5690MHz Straddle 5.725-5.85GHz	17
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	-
5260MHz	21
5300MHz	21
5320MHz	21
5500MHz	21
5580MHz	21



Mode	PowerSetting
5700MHz	22
5720MHz Straddle 5.47-5.725GHz	22
5720MHz Straddle 5.725-5.85GHz	22
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	-
5270MHz	21
5310MHz	21
5510MHz	21
5550MHz	21
5670MHz	21
5710MHz Straddle 5.47-5.725GHz	22
5710MHz Straddle 5.725-5.85GHz	22
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	-
5290MHz	21
5530MHz	21
5610MHz	21
5690MHz Straddle 5.47-5.725GHz	22
5690MHz Straddle 5.725-5.85GHz	22

**For Radiated Emission:**

Mode	Radiated Setting
802.11a_Nss1,(6Mbps)_4TX	-
5260MHz	27
5300MHz	27
5320MHz	27
5500MHz	27
5580MHz	27
5700MHz	27
5720MHz Straddle 5.47-5.725GHz	27
802.11ax HEW20_Nss1,(MCS0)_4TX	-
5260MHz	27
5300MHz	27
5320MHz	27
5500MHz	27
5580MHz	27
5700MHz	27
5720MHz Straddle 5.47-5.725GHz	27
802.11ax HEW40_Nss1,(MCS0)_4TX	-
5270MHz	27
5310MHz	27
5510MHz	27
5550MHz	27
5670MHz	27
5710MHz Straddle 5.47-5.725GHz	27
802.11ax HEW80_Nss1,(MCS0)_4TX	-
5290MHz	27
5530MHz	27
5610MHz	27
5690MHz Straddle 5.47-5.725GHz	27
802.11a_Nss1,(6Mbps)_4TX	-
5260MHz	27
5300MHz	27
5320MHz	27
5500MHz	27
5580MHz	27
5700MHz	27
5720MHz Straddle 5.47-5.725GHz	27
802.11ax HEW20_Nss1,(MCS0)_4TX	-
5260MHz	27
5300MHz	27



Mode	Radiated Setting
5320MHz	27
5500MHz	27
5580MHz	27
5700MHz	27
5720MHz Straddle 5.47-5.725GHz	27
802.11ax HEW40_Nss1,(MCS0)_4TX	-
5270MHz	27
5310MHz	27
5510MHz	27
5550MHz	27
5670MHz	27
5710MHz Straddle 5.47-5.725GHz	27
802.11ax HEW80_Nss1,(MCS0)_4TX	-
5290MHz	27
5530MHz	27
5610MHz	27
5690MHz Straddle 5.47-5.725GHz	27

**For Set 5 antennas / 1TX:****For Conducted measurement and Band Edge Emission test:**

Mode	PowerSetting
802.11a_Nss1,(6Mbps)_1TX	-
5260MHz	22.5
5300MHz	22.5
5320MHz	22.5
5500MHz	23
5580MHz	22.5
5700MHz	23
5720MHz Straddle 5.47-5.725GHz	23
5720MHz Straddle 5.725-5.85GHz	23
802.11ax HEW20_Nss1,(MCS0)_1TX	-
5260MHz	23
5300MHz	23
5320MHz	23
5500MHz	23
5580MHz	23
5700MHz	23
5720MHz Straddle 5.47-5.725GHz	24
5720MHz Straddle 5.725-5.85GHz	24
802.11ax HEW40_Nss1,(MCS0)_1TX	-
5270MHz	23
5310MHz	23
5510MHz	22.5
5550MHz	23
5670MHz	23
5710MHz Straddle 5.47-5.725GHz	24
5710MHz Straddle 5.725-5.85GHz	24
802.11ax HEW80_Nss1,(MCS0)_1TX	-
5290MHz	22.5
5530MHz	22.5
5610MHz	23
5690MHz Straddle 5.47-5.725GHz	24
5690MHz Straddle 5.725-5.85GHz	24

**For Set 5 antennas / 2TX:****For Conducted measurement and Band Edge Emission test:**

Mode	PowerSetting
802.11a_Nss1,(6Mbps)_2TX	-
5260MHz	16
5300MHz	16
5320MHz	16
5500MHz	16
5580MHz	16
5700MHz	16.5
5720MHz Straddle 5.47-5.725GHz	16
5720MHz Straddle 5.725-5.85GHz	16
802.11ax HEW20_Nss1,(MCS0)_2TX	-
5260MHz	16.5
5300MHz	16.5
5320MHz	16.5
5500MHz	17
5580MHz	16.5
5700MHz	17
5720MHz Straddle 5.47-5.725GHz	17
5720MHz Straddle 5.725-5.85GHz	17
802.11ax HEW40_Nss1,(MCS0)_2TX	-
5270MHz	19.5
5310MHz	19.5
5510MHz	19.5
5550MHz	19.5
5670MHz	20
5710MHz Straddle 5.47-5.725GHz	20
5710MHz Straddle 5.725-5.85GHz	20
802.11ax HEW80_Nss1,(MCS0)_2TX	-
5290MHz	20
5530MHz	20
5610MHz	20
5690MHz Straddle 5.47-5.725GHz	20.5
5690MHz Straddle 5.725-5.85GHz	20.5
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	-
5260MHz	19
5300MHz	19
5320MHz	19
5500MHz	19
5580MHz	19



Mode	PowerSetting
5700MHz	19
5720MHz Straddle 5.47-5.725GHz	20
5720MHz Straddle 5.725-5.85GHz	20
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-
5270MHz	19
5310MHz	19
5510MHz	19
5550MHz	19
5670MHz	19
5710MHz Straddle 5.47-5.725GHz	20
5710MHz Straddle 5.725-5.85GHz	20
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	-
5290MHz	19
5530MHz	19
5610MHz	19
5690MHz Straddle 5.47-5.725GHz	20
5690MHz Straddle 5.725-5.85GHz	20

**For Set 5 antennas / 4TX:****For Conducted measurement and Band Edge Emission test:**

Mode	PowerSetting
802.11a_Nss1,(6Mbps)_4TX	-
5260MHz	10.5
5300MHz	10.5
5320MHz	10.5
5500MHz	10.5
5580MHz	10.5
5700MHz	11
5720MHz Straddle 5.47-5.725GHz	11
5720MHz Straddle 5.725-5.85GHz	11
802.11ax HEW20_Nss1,(MCS0)_4TX	-
5260MHz	11.5
5300MHz	11.5
5320MHz	11.5
5500MHz	11.5
5580MHz	11.5
5700MHz	12
5720MHz Straddle 5.47-5.725GHz	12
5720MHz Straddle 5.725-5.85GHz	12
802.11ax HEW40_Nss1,(MCS0)_4TX	-
5270MHz	14
5310MHz	14.5
5510MHz	14.5
5550MHz	14.5
5670MHz	15
5710MHz Straddle 5.47-5.725GHz	15
5710MHz Straddle 5.725-5.85GHz	15
802.11ax HEW80_Nss1,(MCS0)_4TX	-
5290MHz	17.5
5530MHz	17.5
5610MHz	17.5
5690MHz Straddle 5.47-5.725GHz	17.5
5690MHz Straddle 5.725-5.85GHz	17.5
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	-
5260MHz	16
5300MHz	16
5320MHz	16
5500MHz	16
5580MHz	16



Mode	PowerSetting
5700MHz	17
5720MHz Straddle 5.47-5.725GHz	17
5720MHz Straddle 5.725-5.85GHz	17
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	-
5270MHz	16
5310MHz	16
5510MHz	16
5550MHz	16
5670MHz	17
5710MHz Straddle 5.47-5.725GHz	18
5710MHz Straddle 5.725-5.85GHz	18
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	-
5290MHz	16
5530MHz	16
5610MHz	16
5690MHz Straddle 5.47-5.725GHz	17
5690MHz Straddle 5.725-5.85GHz	17

**For Radiated Emission:**

Mode	Radiated Setting
802.11a_Nss1,(6Mbps)_4TX	-
5260MHz	27
5300MHz	27
5320MHz	27
5500MHz	27
5580MHz	27
5700MHz	27
5720MHz Straddle 5.47-5.725GHz	27
802.11ax HEW20_Nss1,(MCS0)_4TX	-
5260MHz	27
5300MHz	27
5320MHz	27
5500MHz	27
5580MHz	27
5700MHz	27
5720MHz Straddle 5.47-5.725GHz	27
802.11ax HEW40_Nss1,(MCS0)_4TX	-
5270MHz	27
5310MHz	27
5510MHz	27
5550MHz	27
5670MHz	27
5710MHz Straddle 5.47-5.725GHz	27
802.11ax HEW80_Nss1,(MCS0)_4TX	-
5290MHz	27
5530MHz	27
5610MHz	27
5690MHz Straddle 5.47-5.725GHz	27
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	-
5260MHz	24
5300MHz	24
5320MHz	24
5500MHz	24
5580MHz	24
5700MHz	24
5720MHz Straddle 5.47-5.725GHz	24
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	-
5270MHz	24
5310MHz	24



Mode	Radiated Setting
5510MHz	24
5550MHz	24
5670MHz	24
5710MHz Straddle 5.47-5.725GHz	24
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	-
5290MHz	24
5530MHz	24
5610MHz	24
5690MHz Straddle 5.47-5.725GHz	24

**For Set 6 antennas / 1TX:****For Conducted measurement and Band Edge Emission test:**

Mode	PowerSetting
802.11a_Nss1,(6Mbps)_1TX	-
5260MHz	19.5
5300MHz	19.5
5320MHz	19
5500MHz	19.5
5580MHz	19
5700MHz	19.5
5720MHz Straddle 5.47-5.725GHz	19.5
5720MHz Straddle 5.725-5.85GHz	19.5
802.11ax HEW20_Nss1,(MCS0)_1TX	-
5260MHz	19.5
5300MHz	19.5
5320MHz	19.5
5500MHz	19.5
5580MHz	19.5
5700MHz	20
5720MHz Straddle 5.47-5.725GHz	20
5720MHz Straddle 5.725-5.85GHz	20
802.11ax HEW40_Nss1,(MCS0)_1TX	-
5270MHz	19.5
5310MHz	19.5
5510MHz	19.5
5550MHz	19.5
5670MHz	20
5710MHz Straddle 5.47-5.725GHz	20.5
5710MHz Straddle 5.725-5.85GHz	20.5
802.11ax HEW80_Nss1,(MCS0)_1TX	-
5290MHz	19.5
5530MHz	20
5610MHz	19.5
5690MHz Straddle 5.47-5.725GHz	21
5690MHz Straddle 5.725-5.85GHz	21

**For Set 6 antennas / 2TX:****For Conducted measurement and Band Edge Emission test:**

Mode	PowerSetting
802.11a_Nss1,(6Mbps)_2TX	-
5260MHz	12
5300MHz	12
5320MHz	12
5500MHz	12
5580MHz	12
5700MHz	12.5
5720MHz Straddle 5.47-5.725GHz	12
5720MHz Straddle 5.725-5.85GHz	12
802.11ax HEW20_Nss1,(MCS0)_2TX	-
5260MHz	12.5
5300MHz	12.5
5320MHz	12.5
5500MHz	13
5580MHz	12.5
5700MHz	13
5720MHz Straddle 5.47-5.725GHz	13
5720MHz Straddle 5.725-5.85GHz	13
802.11ax HEW40_Nss1,(MCS0)_2TX	-
5270MHz	15.5
5310MHz	15.5
5510MHz	16
5550MHz	16
5670MHz	16
5710MHz Straddle 5.47-5.725GHz	16
5710MHz Straddle 5.725-5.85GHz	16
802.11ax HEW80_Nss1,(MCS0)_2TX	-
5290MHz	16
5530MHz	16
5610MHz	16
5690MHz Straddle 5.47-5.725GHz	16.5
5690MHz Straddle 5.725-5.85GHz	16.5
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	-
5260MHz	15
5300MHz	15
5320MHz	15
5500MHz	15
5580MHz	15



Mode	PowerSetting
5700MHz	15
5720MHz Straddle 5.47-5.725GHz	16
5720MHz Straddle 5.725-5.85GHz	16
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-
5270MHz	15
5310MHz	15
5510MHz	15
5550MHz	15
5670MHz	15
5710MHz Straddle 5.47-5.725GHz	16
5710MHz Straddle 5.725-5.85GHz	16
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	-
5290MHz	15
5530MHz	15
5610MHz	15
5690MHz Straddle 5.47-5.725GHz	16
5690MHz Straddle 5.725-5.85GHz	16

**For Set 6 antennas / 4TX:****For Conducted measurement and Band Edge Emission test:**

Mode	PowerSetting
802.11a_Nss1,(6Mbps)_4TX	-
5260MHz	6
5300MHz	6
5320MHz	6
5500MHz	6
5580MHz	6
5700MHz	6.5
5720MHz Straddle 5.47-5.725GHz	6.5
5720MHz Straddle 5.725-5.85GHz	6.5
802.11ax HEW20_Nss1,(MCS0)_4TX	-
5260MHz	6.5
5300MHz	6.5
5320MHz	6.5
5500MHz	6.5
5580MHz	6.5
5700MHz	7
5720MHz Straddle 5.47-5.725GHz	7
5720MHz Straddle 5.725-5.85GHz	7
802.11ax HEW40_Nss1,(MCS0)_4TX	-
5270MHz	9.5
5310MHz	10
5510MHz	10
5550MHz	10
5670MHz	10.5
5710MHz Straddle 5.47-5.725GHz	10.5
5710MHz Straddle 5.725-5.85GHz	10.5
802.11ax HEW80_Nss1,(MCS0)_4TX	-
5290MHz	13
5530MHz	13
5610MHz	13
5690MHz Straddle 5.47-5.725GHz	13.5
5690MHz Straddle 5.725-5.85GHz	13.5
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	-
5260MHz	12
5300MHz	12
5320MHz	12
5500MHz	12
5580MHz	12



Mode	PowerSetting
5700MHz	13
5720MHz Straddle 5.47-5.725GHz	13
5720MHz Straddle 5.725-5.85GHz	13
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	-
5270MHz	12
5310MHz	12
5510MHz	12
5550MHz	12
5670MHz	12
5710MHz Straddle 5.47-5.725GHz	13
5710MHz Straddle 5.725-5.85GHz	13
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	-
5290MHz	12
5530MHz	12
5610MHz	12
5690MHz Straddle 5.47-5.725GHz	13
5690MHz Straddle 5.725-5.85GHz	13



For Radiated Emission:

Mode	Radiated Setting
802.11a_Nss1,(6Mbps)_4TX	-
5260MHz	27
5300MHz	27
5320MHz	27
5500MHz	27
5580MHz	27
5700MHz	27
5720MHz Straddle 5.47-5.725GHz	27
802.11ax HEW20_Nss1,(MCS0)_4TX	-
5260MHz	27
5300MHz	27
5320MHz	27
5500MHz	27
5580MHz	27
5700MHz	27
5720MHz Straddle 5.47-5.725GHz	27
802.11ax HEW40_Nss1,(MCS0)_4TX	-
5270MHz	27
5310MHz	27
5510MHz	27
5550MHz	27
5670MHz	27
5710MHz Straddle 5.47-5.725GHz	27
802.11ax HEW80_Nss1,(MCS0)_4TX	-
5290MHz	27
5530MHz	27
5610MHz	27
5690MHz Straddle 5.47-5.725GHz	27
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	-
5260MHz	24
5300MHz	24
5320MHz	24
5500MHz	24
5580MHz	24
5700MHz	24
5720MHz Straddle 5.47-5.725GHz	24
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	-
5270MHz	24



Mode	Radiated Setting
5310MHz	24
5510MHz	24
5550MHz	24
5670MHz	24
5710MHz Straddle 5.47-5.725GHz	24
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	-
5290MHz	24
5530MHz	24
5610MHz	24
5690MHz Straddle 5.47-5.725GHz	24

2.2 The Worst Case Measurement Configuration

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

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

The EUT 1 was performed at X axis and Z axis, the worst case was found as below. So the measurement will follow this same test configuration.

The antenna 3, 4 were performed at Y axis and Z axis, the worst case were found as below. So the measurement will follow this same test configuration.

Antenna Set 2:

For Radiated Emission: EUT in Z axis

For Band Edge Emission: EUT in Z axis

Antenna Set 3:

For Radiated Emission: EUT in X axis + Antenna in Y axis

For Band Edge Emission: EUT in X axis + Antenna in Y axis

Antenna Set 4:

For Radiated Emission: EUT in Z axis + Antenna in Z axis

For Band Edge Emission: EUT in Z axis + Antenna in Z axis

Antenna Set 5:

For Radiated Emission: EUT in Z axis

For Band Edge Emission: EUT in Z axis

Antenna Set 6:

For Radiated Emission: EUT in Z axis

For Band Edge Emission: EUT in Z axis

Test Mode	Refer to note
------------------	---------------



The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis - Co-location RF Exposure Evaluation
Operating Mode	
1	EUT 1: Radio 1 (WLAN 2.4GHz) + Radio 2 (WLAN 5GHz) + Radio 4 (Bluetooth)
Refer to Sporton Test Report No.: FA960317-01 for Co-location RF Exposure Evaluation.	

Note1: The PoE below are for measurement only, would not be marketed.

PoE information as below:

Power	Brand	Model
PoE 1	CISCO	MA-INJ-5
PoE 2	CISCO	MA-INJ-4
PoE 3	PHIHONG	POEA30U-1ATE

Note2: Test Mode:

Test Mode								
Test Item	802.11a			802.11ax HEW20/40/80				
	1T1S	2T1S	4T1S	CDD 1T1S	CDD 2T1S	CDD 4T1S	TxBF 2T1S	TxBF 4T1S
Maximum Conducted Output Power	V	V	V	V	V	V	V	V
Emission Bandwidth	V	V	V	V	V	V	V	V
Peak Power Spectral Density	V	V	V	V	V	V	V	V
Radiated Emission	Cover by 4T1S Max setting	Cover by 4T1S Max setting	V	Cover by CDD 4T1S Max setting	Cover by CDD 4T1S Max setting	V	Cover by CDD 4T1S Max setting	V
Band Edge Emission	V	V	V	V	V	V	V	V

Note3: 802.11ax modulation and bandwidth are similar for 802.11n mode for 20MHz / 40MHz and 802.11ac mode for 20/40/80MHz, therefore investigated worst case to representative mode in test report.



2.3 EUT Operation during Test

For CTX Mode:

non-beamforming mode:

The EUT was programmed to be in continuously transmitting mode.

beamforming mode:

During the test, the following programs under WIN 7 were executed.

The program was executed as follows:

1. During the test, the EUT operation to normal function.
2. Executed command fixed test channel under Telnet (6.1.7601).
3. Executed "Lantest.exe" to link with the remote workstation to transmit and receive packet by RX Device and transmit duty cycle no less than 98%.

2.4 Accessories

Accessories				
Equipment Name	Brand Name	Model Name	P/N	Rating
Adapter 1	CISCO	KSAS0361200250HU	-	Input: 100-240V, 50/60Hz, 1.0A Output: 12V, 2.5A
Adapter 2	CISCO	MA-PWR-30W-US	640-39010-A	Input: 100-240V, 50-60Hz, 0.8A Max. Output: 12V, 2.5A 30W
Other				
Wall-mounted rack*1				

2.5 Support Equipment

For Radiated and RF Conducted:

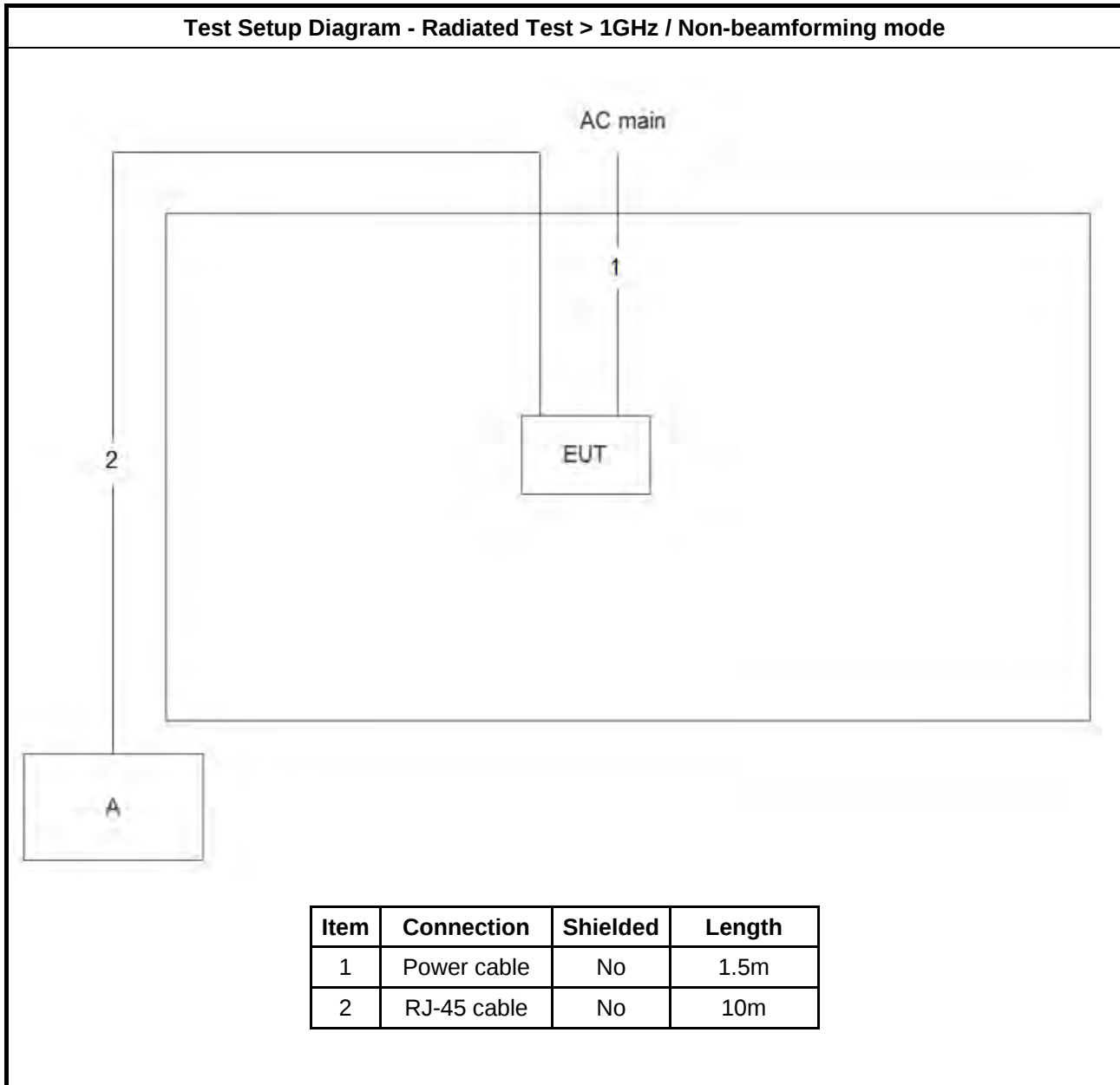
<For Non-beamforming mode>

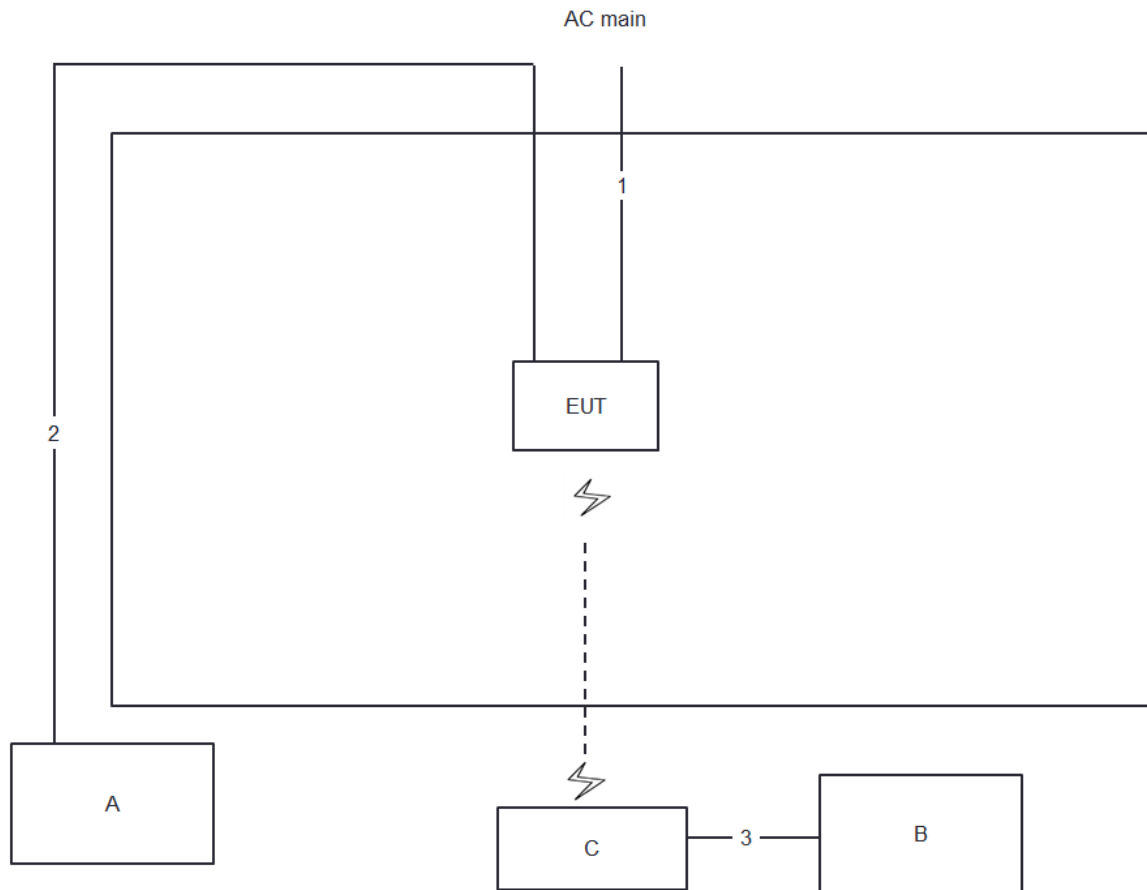
Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	Notebook	DELL	E4300	N/A

<For Beamforming mode>

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	Notebook	DELL	E4300	N/A
B	Notebook	DELL	E4300	N/A
C	RX Device	CISCO	MR46E-HW	UDX-60093010

2.6 Test Setup Diagram



Test Setup Diagram - Radiated Test > 1GHz / Beamforming mode


Item	Connection	Shielded	Length
1	Power cable	No	1.5m
2	RJ-45 cable	No	10m
3	RJ-45 cable	No	10m

3 Transmitter Test Result

3.1 Emission Bandwidth

3.1.1 Emission Bandwidth Limit

Emission Bandwidth Limit	
UNII Devices	
☒	For the 5.15-5.25 GHz band, N/A
☒	For the 5.25-5.35 GHz band, the maximum conducted output power shall not exceed the lesser of 250 mW or 11 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 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 $\geq$ 500kHz.
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 $\geq$ 500kHz.

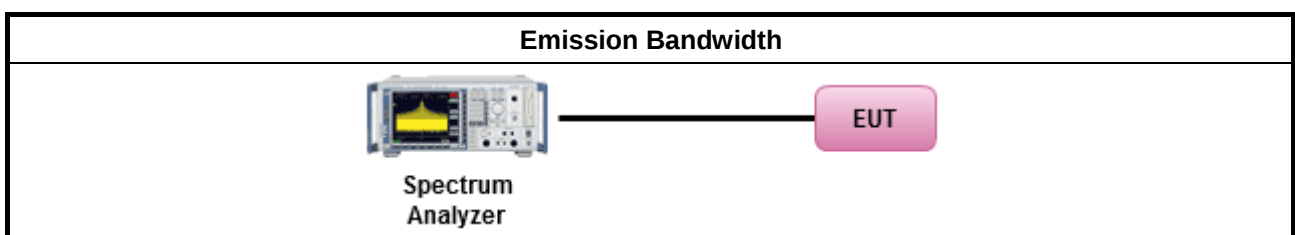
3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

Test Method	
For the emission bandwidth shall be measured using one of the options below:	
☒	Refer as 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.

3.1.4 Test Setup



3.1.5 Test Result of Emission Bandwidth

Refer as Appendix A



3.2 Maximum Conducted Output Power

3.2.1 Maximum Conducted Output Power Limit

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

3.2.2 Measuring Instruments

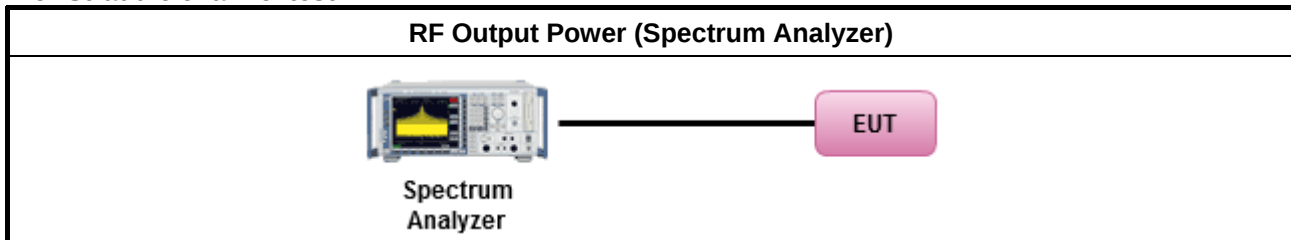
Refer a test equipment and calibration data table in this test report.

3.2.3 Test Procedures

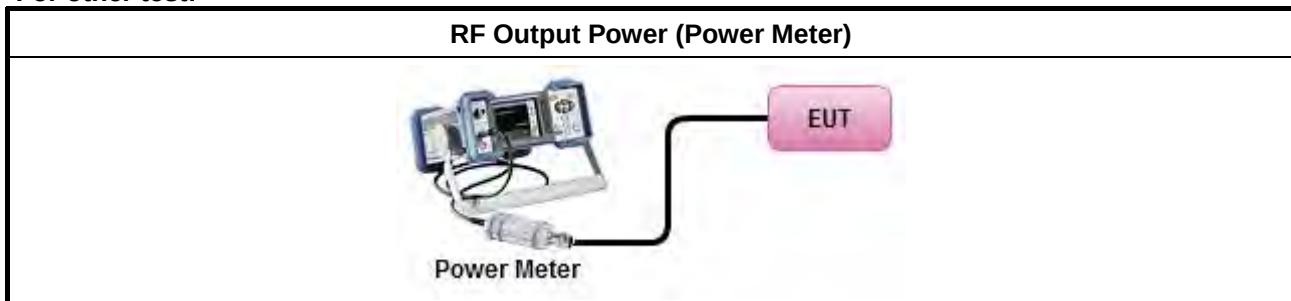
Test Method	
Maximum Conducted Output Power	
	Average over on/off periods with duty factor
☒	Refer as FCC KDB 789033, clause E Method SA-2 (spectral trace averaging).
☐	Refer as FCC KDB 789033, clause E Method SA-2 Alt. (RMS detection with slow sweep speed)
	Wideband RF power meter and average over on/off 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]) $EIRP_{total} = P_{total} + DG$	

3.2.4 Test Setup

For Straddle channel test:



For other test:



3.2.5 Test Result of Maximum Conducted Output Power

Refer as Appendix B



3.3 Peak Power Spectral Density

3.3.1 Peak Power Spectral Density Limit

Peak Power Spectral Density Limit	
UNII Devices	
☒ For the 5.15-5.25 GHz band:	
	- Outdoor AP: the peak power spectral density (PPSD) shall not exceed the lesser of 17dBm/MHz. If $G_{TX} > 6$ dBi, then $P_{Out} = 17 - (G_{TX} - 6)$. - Indoor AP: the peak power spectral density (PPSD) shall not exceed the lesser of 17dBm/MHz. If $G_{TX} > 6$ dBi, then $P_{Out} = 17 - (G_{TX} - 6)$. - Point-to-point AP: the peak power spectral density (PPSD) shall not exceed the lesser of 17dBm/MHz. If $G_{TX} > 23$ dBi, then $P_{Out} = 17 - (G_{TX} - 23)$. - Mobile or Portable Client: the peak power spectral density (PPSD) ≤ 11 dBm/MHz. If $G_{TX} > 6$ dBi, then $PPSD = 11 - (G_{TX} - 6)$.
☒ For the 5.25-5.35 GHz band, the peak power spectral density (PPSD) ≤ 11 dBm/MHz. If $G_{TX} > 6$ dBi, then $PPSD = 11 - (G_{TX} - 6)$.	
☒ For the 5.47-5.725 GHz band, the peak power spectral density (PPSD) ≤ 11 dBm/MHz. If $G_{TX} > 6$ dBi, then $PPSD = 11 - (G_{TX} - 6)$.	
☒ For the 5.725-5.85 GHz band:	
	- Point-to-multipoint systems (P2M): the peak power spectral density (PPSD) ≤ 30 dBm/500kHz. If $G_{TX} > 6$ dBi, then $PPSD = 30 - (G_{TX} - 6)$. - Point-to-point systems (P2P): the peak power spectral density (PPSD) ≤ 30 dBm/500kHz.
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 $0^\circ \leq \theta < 8^\circ$; $-13 - 0.716(\theta - 8)$ dBW/MHz for $8^\circ \leq \theta < 40^\circ$ $-35.9 - 1.22(\theta - 40)$ 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 the same method as used to determine the conducted output power shall be used to determine the power spectral density. And power spectral density in dBm/MHz G_{TX} = the maximum transmitting antenna directional gain in dBi.	

3.3.2 Measuring Instruments

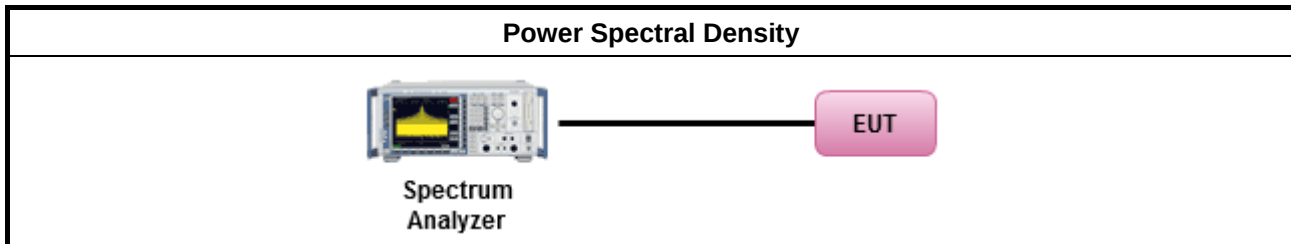
Refer a test equipment and calibration data table in this test report.



3.3.3 Test Procedures

Test Method	
Peak power spectral density procedures that the same method as used to determine the conducted output power shall be used to determine the peak power spectral density and use the peak search function on the spectrum analyzer to find the peak of the spectrum. For the peak power spectral density shall be measured using below options:	
☐	Refer as 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]) $EIRP_{total} = PPSD_{total} + DG$	

3.3.4 Test Setup



3.3.5 Test Result of Peak Power Spectral Density

Refer as Appendix C

3.4 Unwanted Emissions

3.4.1 Transmitter 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).

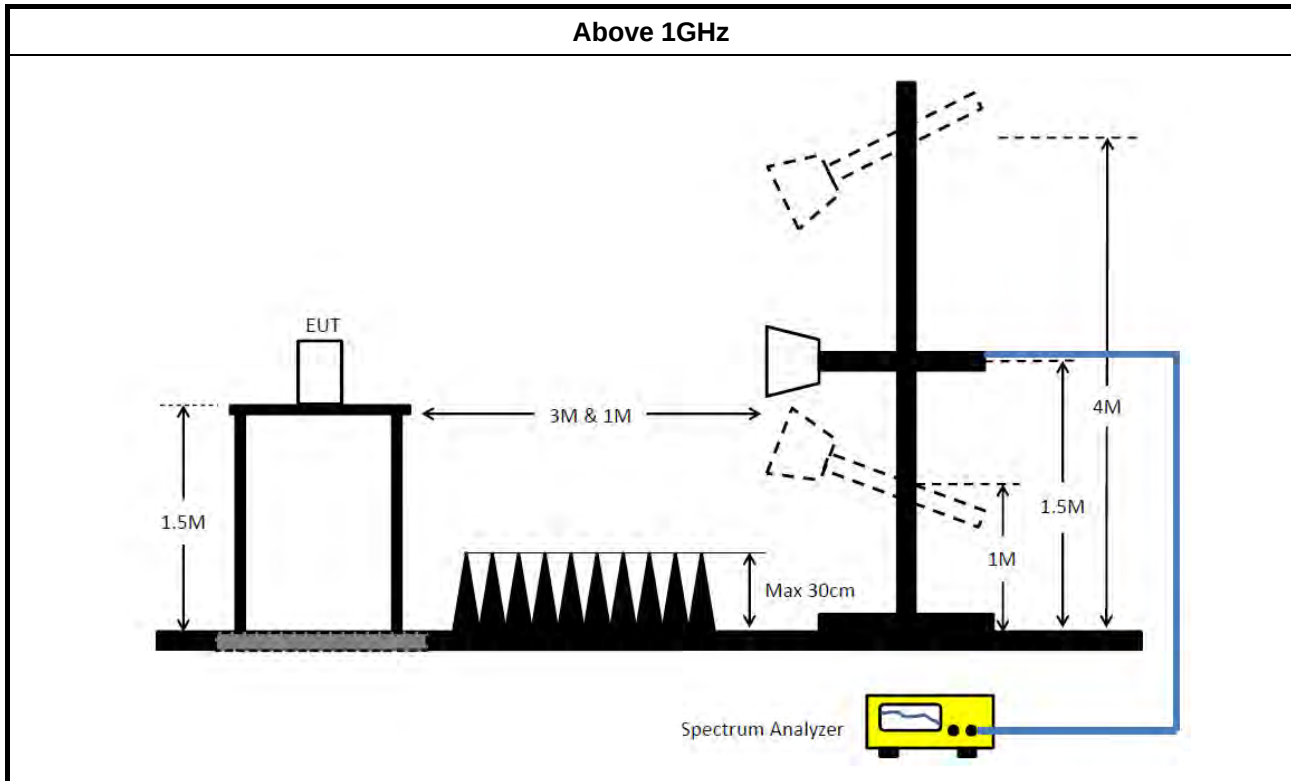
3.4.2 Measuring Instruments

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

3.4.3 Test Procedures

Test Method	
Measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. Measurements shall not be performed at a distance greater than 30 m for frequencies above 30 MHz, unless it can be further demonstrated that measurements at a distance of 30 m or less are impractical. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements).	
The average emission levels shall be measured in [duty cycle $\geq$ 98 or duty factor].	
For the transmitter unwanted emissions shall be measured using following options below:	
	Refer as 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.	

3.4.4 Test Setup



3.4.5 Measurement Results Calculation

The measured Level is calculated using:

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

3.4.6 Test Result of Transmitter Unwanted Emissions

Refer as Appendix D



4 Test Equipment and Calibration Data

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
Horn Antenna	EMCO	3115	00075790	750MHz ~ 18GHz	Nov. 13, 2018	Nov. 12, 2019	Radiation (03CH01-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Jun. 27, 2019	Jun. 26, 2020	Radiation (03CH01-CB)
Pre-Amplifier	Agilent	8449B	3008A02310	1GHz ~ 26.5GHz	Jan. 08, 2019	Jan. 07, 2020	Radiation (03CH01-CB)
Pre-Amplifier	MITEQ	TTA1840-35-HG	1864479	18GHz ~ 40GHz	Jul. 03, 2019	Jul. 02, 2020	Radiation (03CH01-CB)
Spectrum Analyzer	R&S	FSP40	100056	9kHz ~ 40GHz	Jan. 31, 2019	Jan. 30, 2020	Radiation (03CH01-CB)
RF Cable-high	Woken	RG402	High Cable-16	1 GHz ~ 18 GHz	Oct. 08, 2018	Oct. 07, 2019	Radiation (03CH01-CB)
RF Cable-high	Woken	RG402	High Cable-04	1GHz~18GHz	Oct. 07, 2019	Oct. 06, 2020	Radiation (03CH01-CB)
RF Cable-high	Woken	RG402	High Cable-16+17	1 GHz ~ 18 GHz	Oct. 08, 2018	Oct. 07, 2019	Radiation (03CH01-CB)
RF Cable-high	Woken	RG402	High Cable-04+23	30MHz~18GHz	Oct. 07, 2019	Oct. 06, 2020	Radiation (03CH01-CB)
RF Cable-high	Woken	RG402	High Cable-40G#1	18GHz ~ 40 GHz	Jul. 27, 2018	Jul. 26, 2019	Radiation (03CH01-CB)
RF Cable-high	Woken	RG402	High Cable-40G#1	18GHz ~ 40 GHz	Jul. 24, 2019	Jul. 23, 2020	Radiation (03CH01-CB)
RF Cable-high	Woken	RG402	High Cable-40G#2	18GHz ~ 40 GHz	Jul. 27, 2018	Jul. 26, 2019	Radiation (03CH01-CB)
RF Cable-high	Woken	RG402	High Cable-40G#2	18GHz ~ 40 GHz	Jul. 24, 2019	Jul. 23, 2020	Radiation (03CH01-CB)
Spectrum analyzer	R&S	FSV40	101028	9kHz~40GHz	Oct. 30, 2018	Oct. 29, 2019	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-11	1 GHz ~ 26.5 GHz	Oct. 08, 2018	Oct. 07, 2019	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-12	1 GHz ~ 26.5 GHz	Oct. 08, 2018	Oct. 07, 2019	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-13	1 GHz ~ 26.5 GHz	Oct. 08, 2018	Oct. 07, 2019	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-14	1 GHz ~ 26.5 GHz	Oct. 08, 2018	Oct. 07, 2019	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-15	1 GHz ~ 26.5 GHz	Oct. 08, 2018	Oct. 07, 2019	Conducted (TH03-CB)
Power Sensor	Anritsu	MA2411B	1126203	300MHz~40GHz	Sep. 03, 2018	Sep. 02, 2019	Conducted (TH03-CB)
Power Meter	Anritsu	ML2495A	1210004	300MHz~40GHz	Sep. 03, 2018	Sep. 02, 2019	Conducted (TH03-CB)

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

**Summary**

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.25-5.35GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	20.64M	16.402M	16M4D1D	20.49M	16.372M
802.11ax HEW20_Nss1,(MCS0)_1TX	22.08M	18.921M	18M9D1D	21.75M	18.861M
802.11ax HEW40_Nss1,(MCS0)_1TX	41.58M	37.721M	37M7D1D	41.28M	37.661M
802.11ax HEW80_Nss1,(MCS0)_1TX	82.2M	76.882M	76M9D1D	82.2M	76.882M
5.47-5.725GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	20.76M	16.432M	16M4D1D	15.375M	13.238M
802.11ax HEW20_Nss1,(MCS0)_1TX	22.14M	18.951M	19M0D1D	17.055M	14.498M
802.11ax HEW40_Nss1,(MCS0)_1TX	41.34M	37.781M	37M8D1D	36.12M	33.758M
802.11ax HEW80_Nss1,(MCS0)_1TX	82.68M	77.121M	77M1D1D	76.35M	73.163M
5.725-5.85GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	3.1M	3.718M	3M72D1D	3.1M	3.718M
802.11ax HEW20_Nss1,(MCS0)_1TX	4.4M	4.598M	4M60D1D	4.4M	4.598M
802.11ax HEW40_Nss1,(MCS0)_1TX	3.98M	8.916M	8M92D1D	3.98M	8.916M
802.11ax HEW80_Nss1,(MCS0)_1TX	3.9M	21.929M	21M9D1D	3.9M	21.929M

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

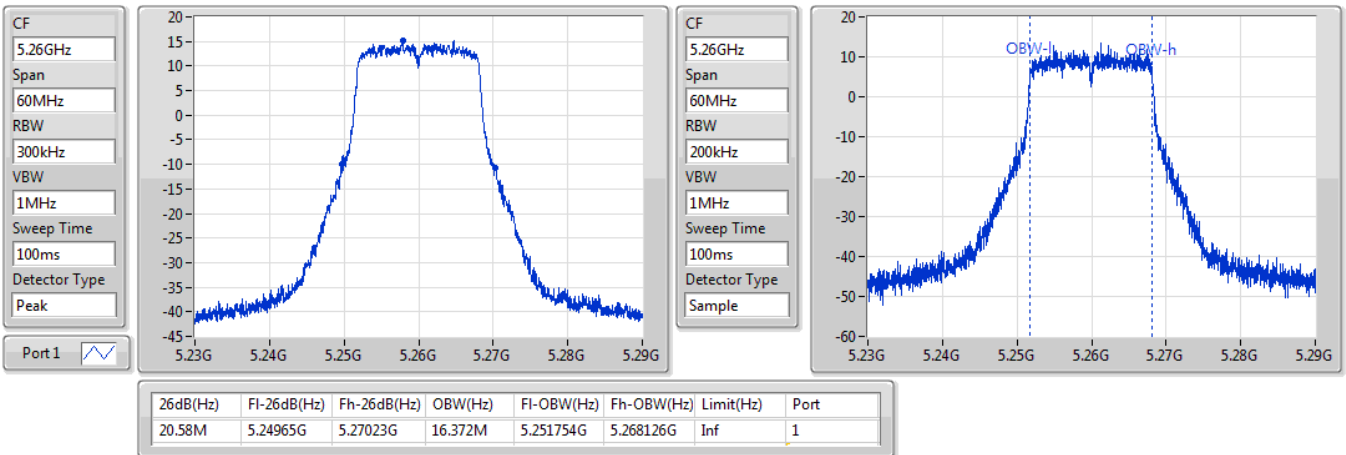
Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
802.11a_Nss1,(6Mbps)_1TX	-	-	-	-
5260MHz	Pass	Inf	20.58M	16.372M
5300MHz	Pass	Inf	20.49M	16.402M
5320MHz	Pass	Inf	20.64M	16.372M
5500MHz	Pass	Inf	20.61M	16.402M
5580MHz	Pass	Inf	20.55M	16.402M
5700MHz	Pass	Inf	20.76M	16.432M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	15.375M	13.238M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	3.1M	3.718M
802.11ax HEW20_Nss1,(MCS0)_1TX	-	-	-	-
5260MHz	Pass	Inf	21.9M	18.891M
5300MHz	Pass	Inf	22.08M	18.861M
5320MHz	Pass	Inf	21.75M	18.921M
5500MHz	Pass	Inf	21.39M	18.921M
5580MHz	Pass	Inf	22.14M	18.951M
5700MHz	Pass	Inf	21.66M	18.921M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	17.055M	14.498M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	4.4M	4.598M
802.11ax HEW40_Nss1,(MCS0)_1TX	-	-	-	-
5270MHz	Pass	Inf	41.28M	37.721M
5310MHz	Pass	Inf	41.58M	37.661M
5510MHz	Pass	Inf	40.98M	37.721M
5550MHz	Pass	Inf	41.34M	37.661M
5670MHz	Pass	Inf	41.16M	37.781M
5710MHz Straddle 5.47-5.725GHz	Pass	Inf	36.12M	33.758M
5710MHz Straddle 5.725-5.85GHz	Pass	500k	3.98M	8.916M
802.11ax HEW80_Nss1,(MCS0)_1TX	-	-	-	-
5290MHz	Pass	Inf	82.2M	76.882M
5530MHz	Pass	Inf	82.44M	77.121M
5610MHz	Pass	Inf	82.68M	77.121M
5690MHz Straddle 5.47-5.725GHz	Pass	Inf	76.35M	73.163M
5690MHz Straddle 5.725-5.85GHz	Pass	500k	3.9M	21.929M

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

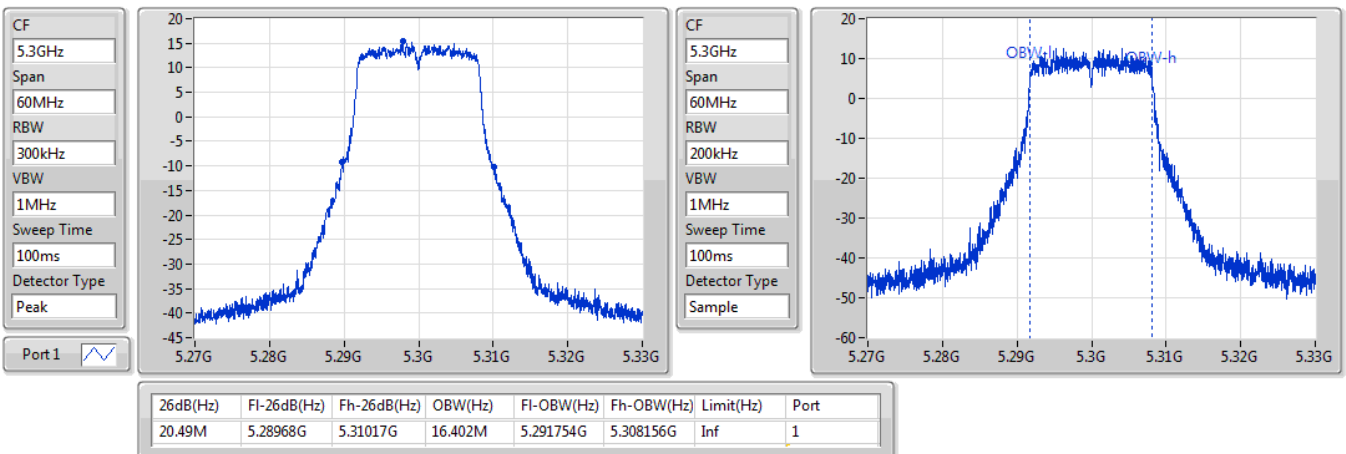
Port X-OBW = Port X 99% occupied bandwidth;

802.11a_Nss1,(6Mbps)_1TX
EBW
5260MHz

02/08/2019

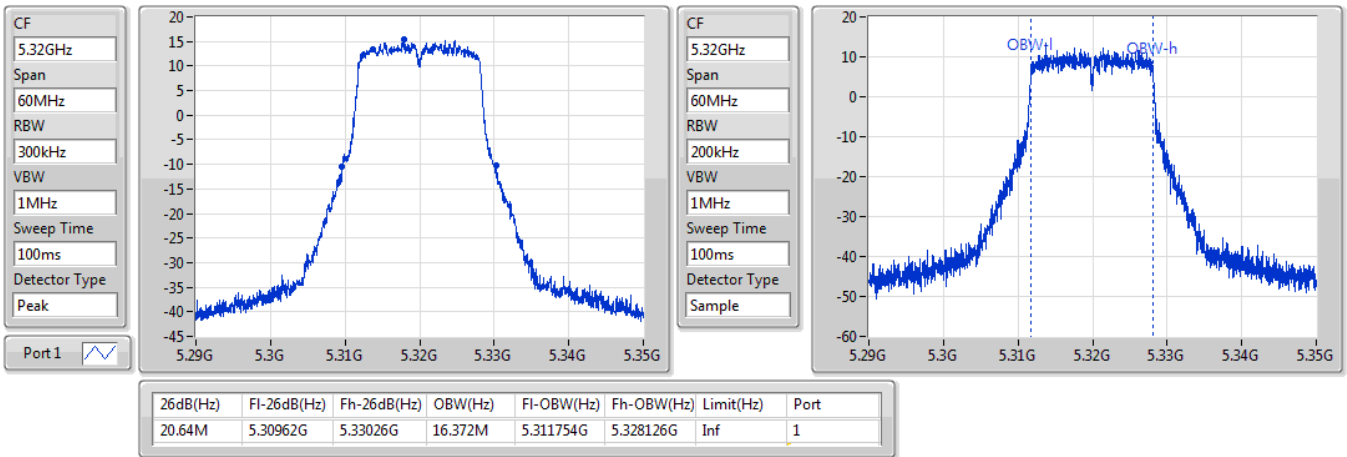

802.11a_Nss1,(6Mbps)_1TX
EBW
5300MHz

02/08/2019

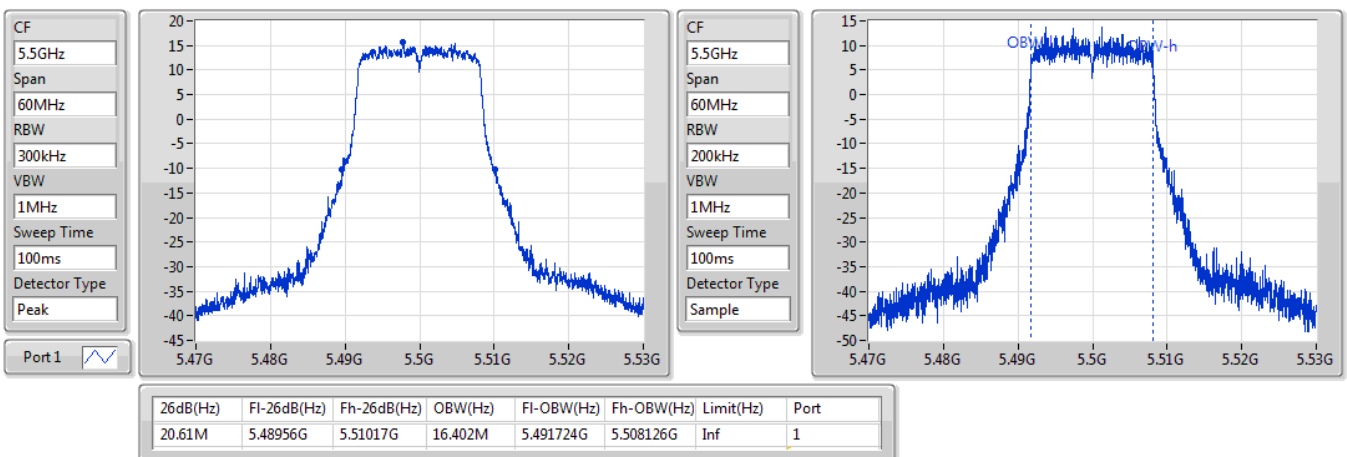


802.11a_Nss1,(6Mbps)_1TX
EBW
5320MHz

02/08/2019

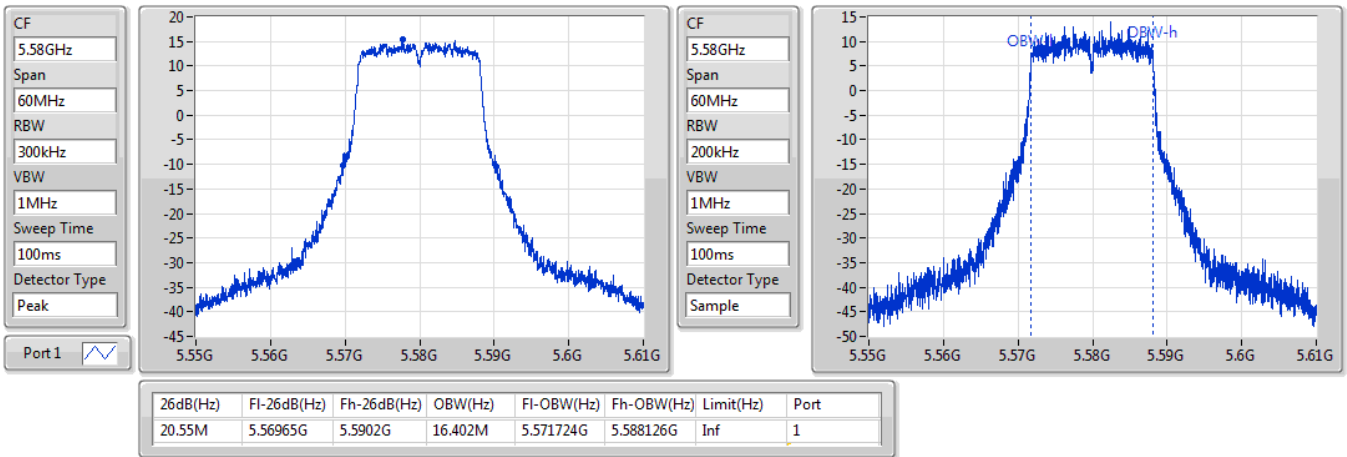

802.11a_Nss1,(6Mbps)_1TX
EBW
5500MHz

02/08/2019

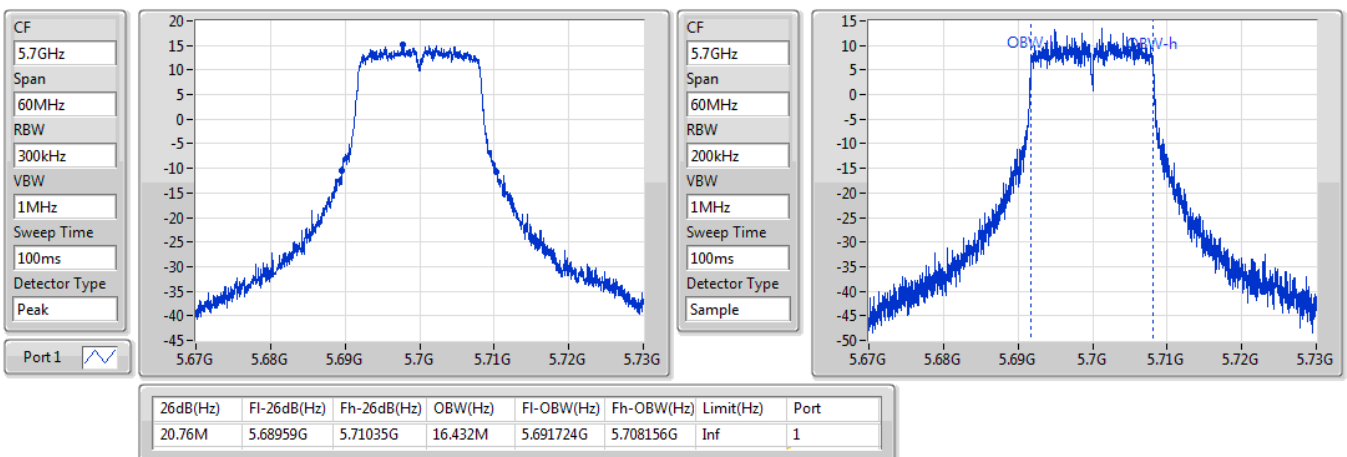


802.11a_Nss1,(6Mbps)_1TX
EBW
5580MHz

02/08/2019

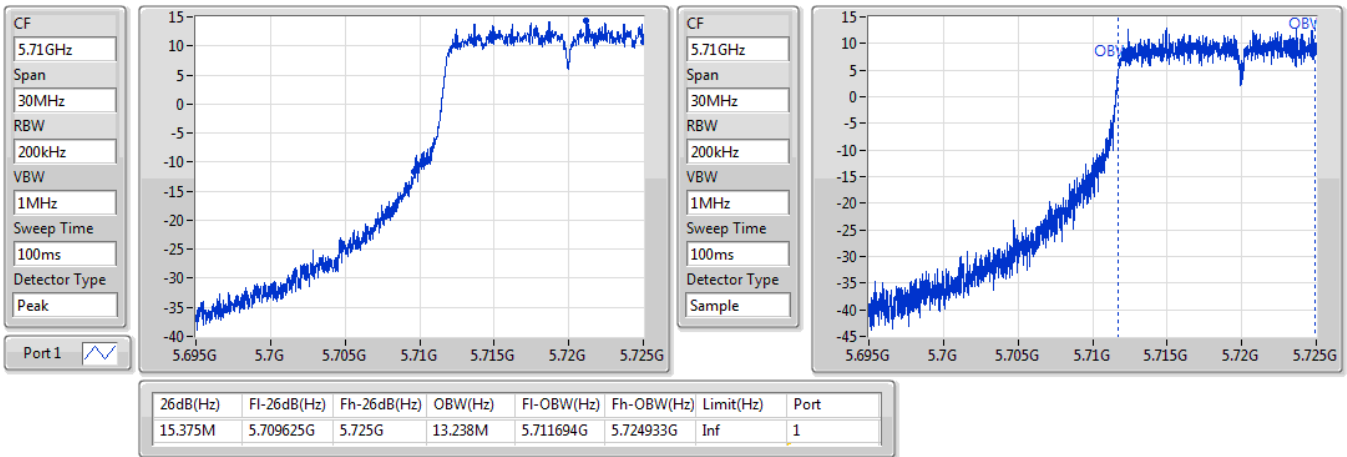

802.11a_Nss1,(6Mbps)_1TX
EBW
5700MHz

02/08/2019

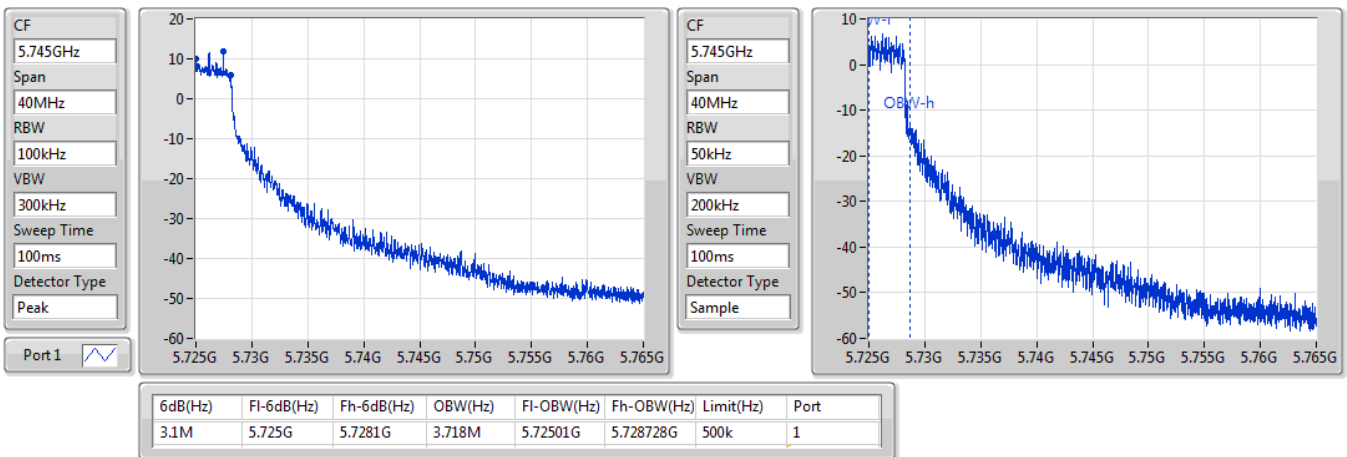


802.11a_Nss1,(6Mbps)_1TX
EBW
5720MHz Straddle 5.47-5.725GHz

02/08/2019

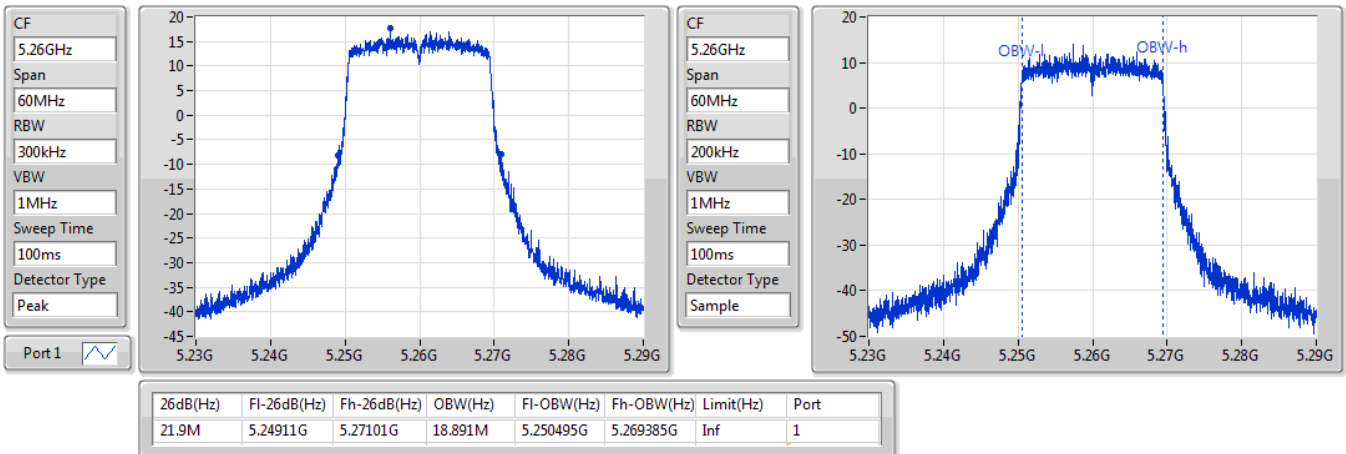

802.11a_Nss1,(6Mbps)_1TX
EBW
5720MHz Straddle 5.725-5.85GHz

02/08/2019

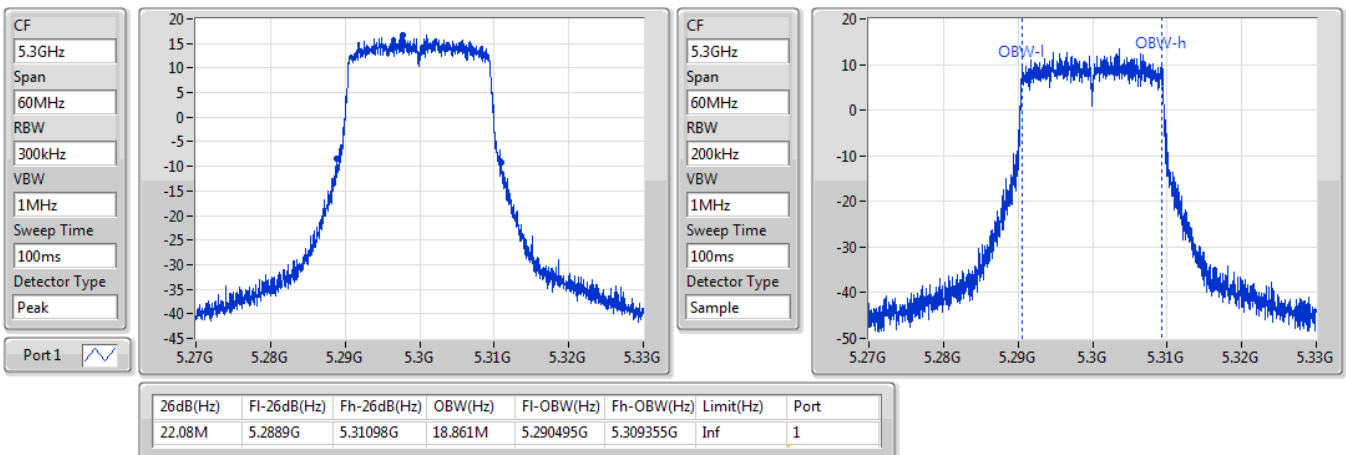


802.11ax HEW20_Nss1,(MCS0)_1TX
EBW
5260MHz

02/08/2019

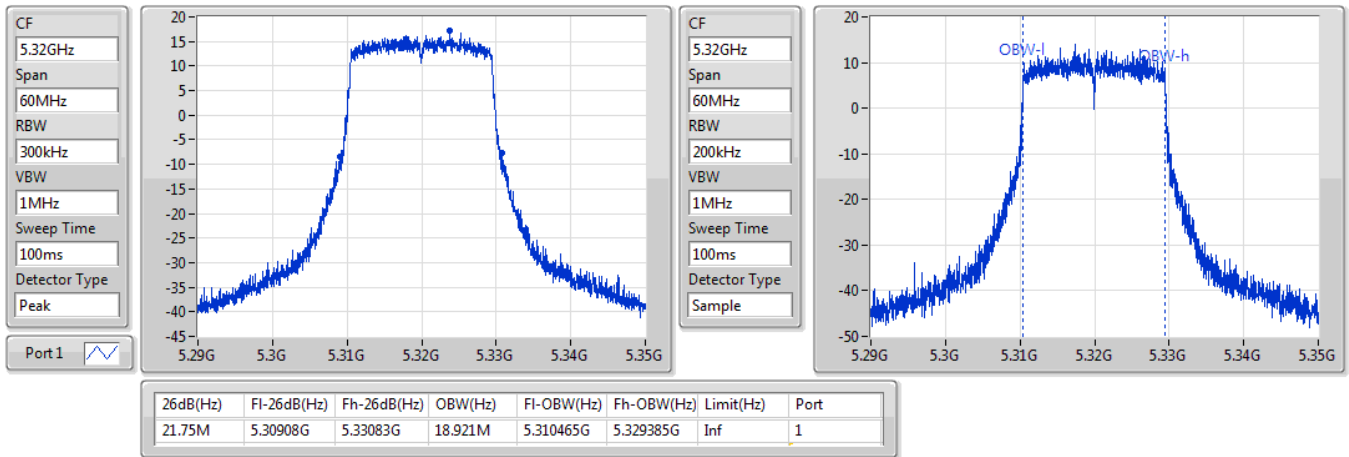

802.11ax HEW20_Nss1,(MCS0)_1TX
EBW
5300MHz

02/08/2019

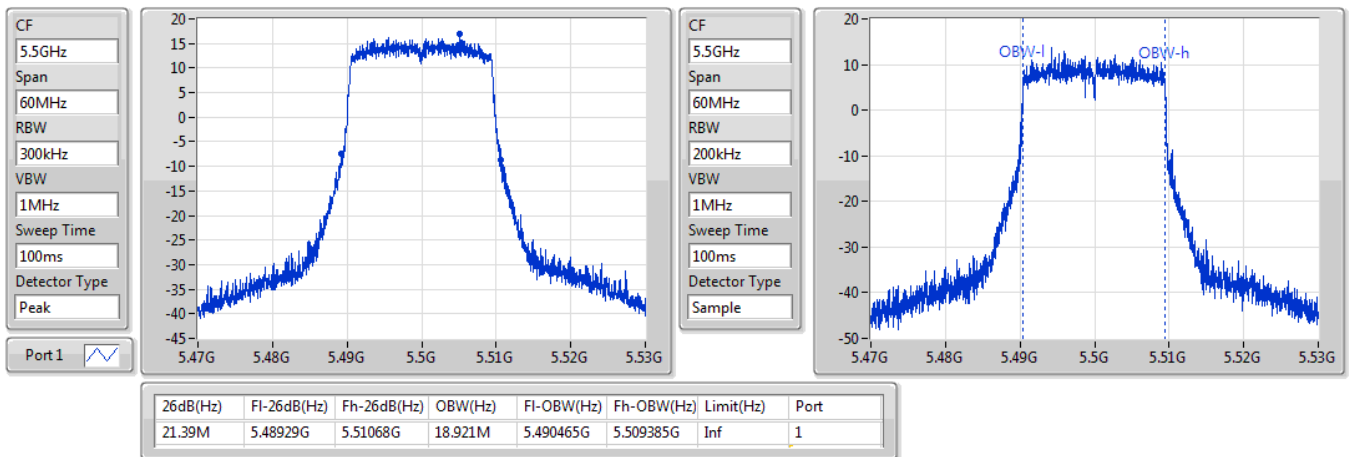


802.11ax HEW20_Nss1,(MCS0)_1TX
EBW
5320MHz

02/08/2019

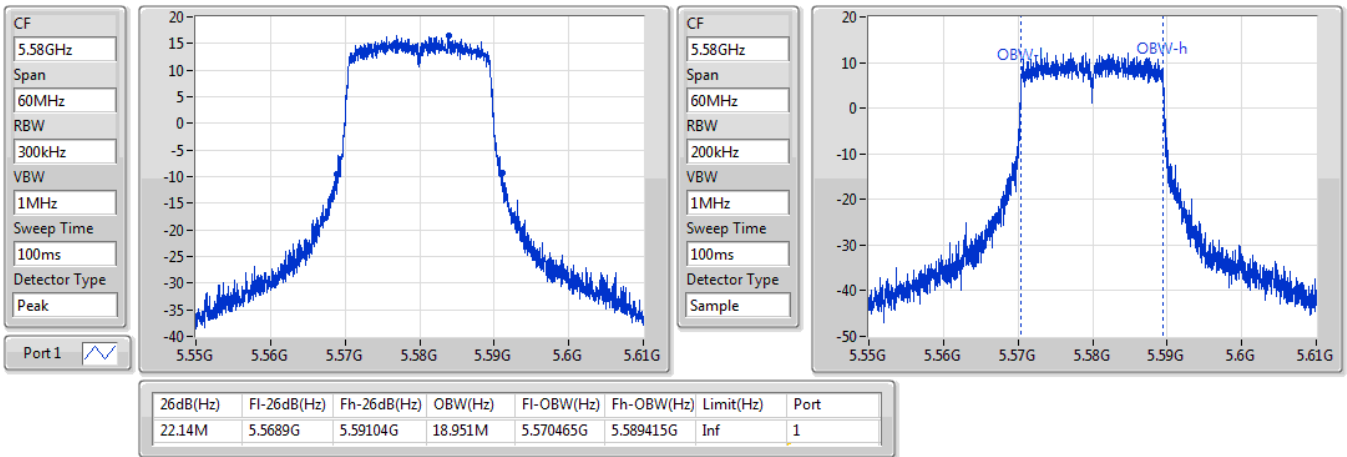

802.11ax HEW20_Nss1,(MCS0)_1TX
EBW
5500MHz

02/08/2019

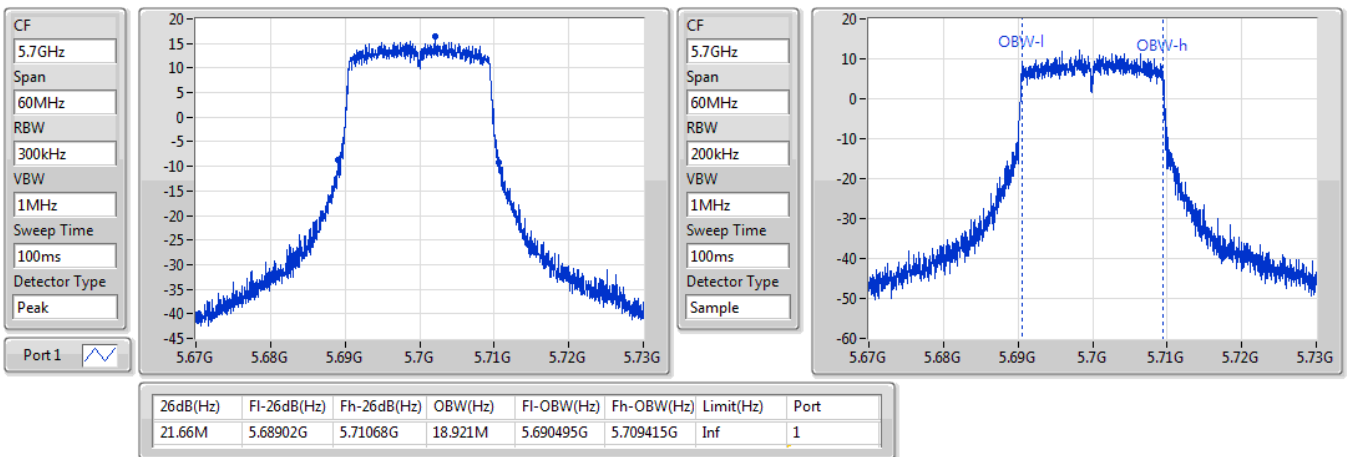


802.11ax HEW20_Nss1,(MCS0)_1TX
EBW
5580MHz

02/08/2019

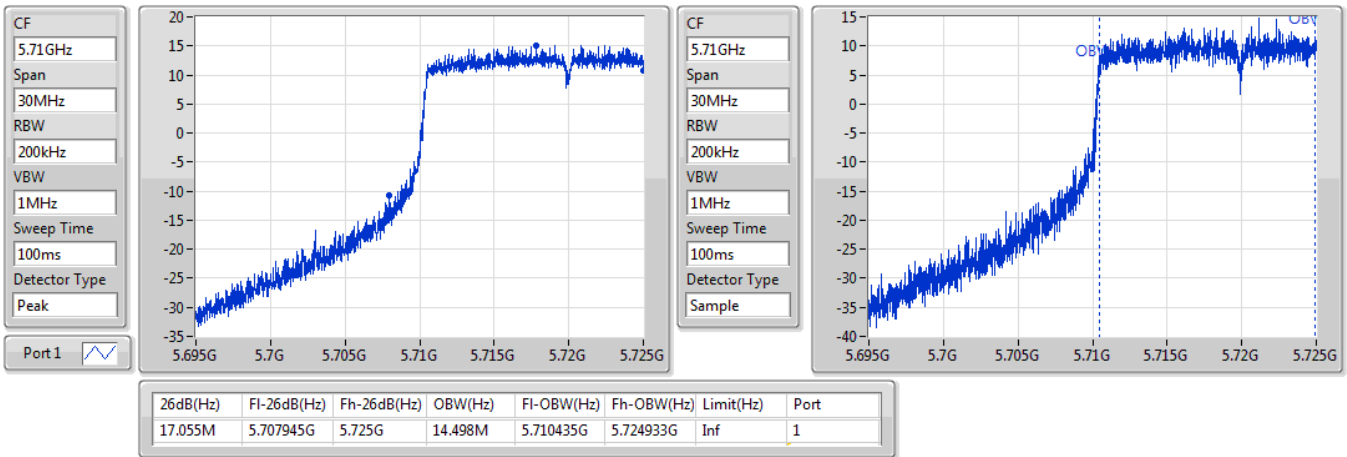

802.11ax HEW20_Nss1,(MCS0)_1TX
EBW
5700MHz

02/08/2019

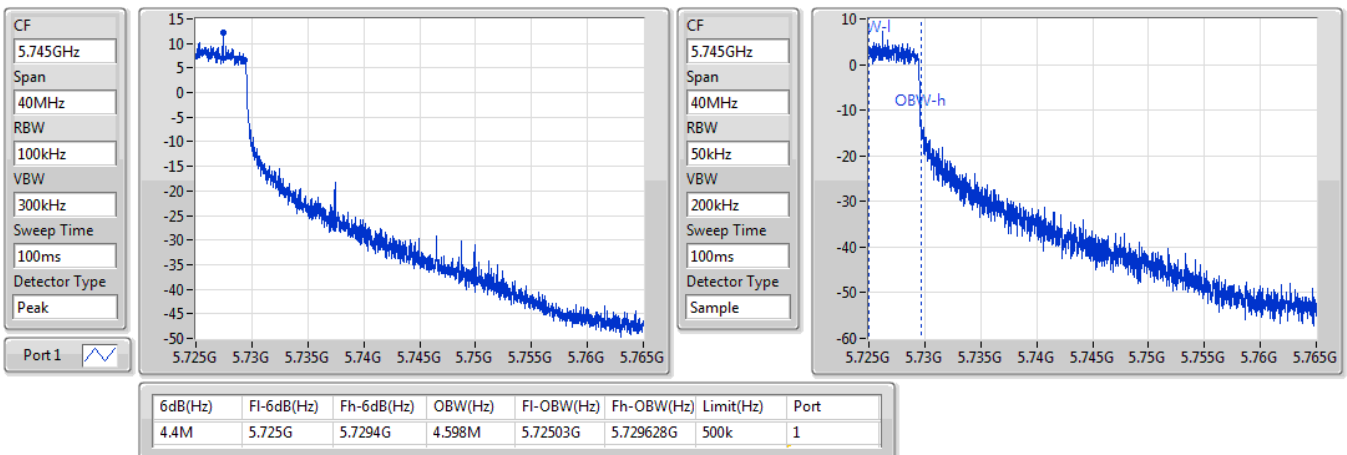


802.11ax HEW20_Nss1,(MCS0)_1TX
EBW
5720MHz Straddle 5.47-5.725GHz

02/08/2019

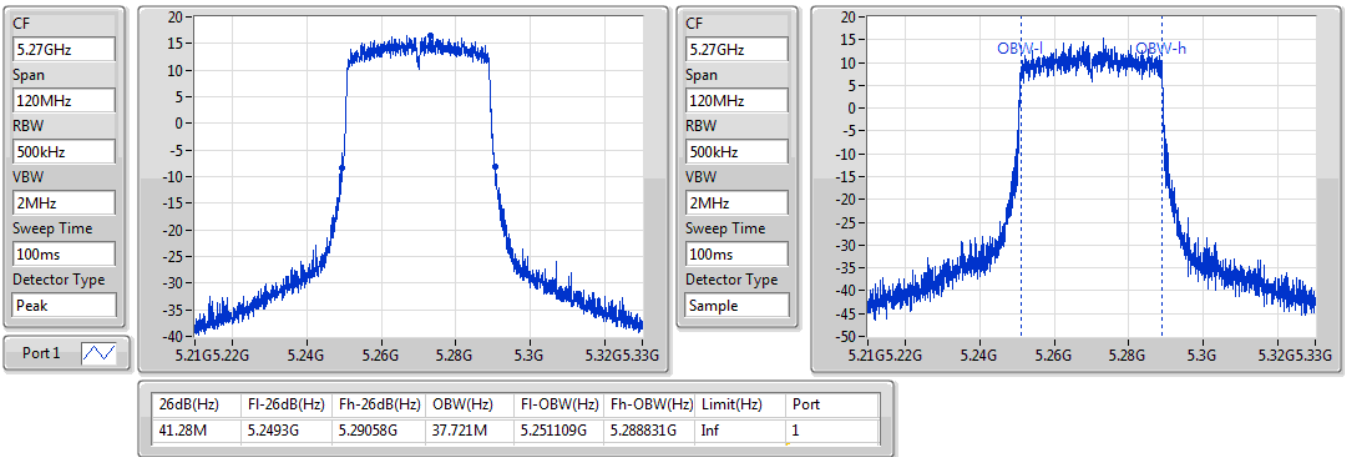

802.11ax HEW20_Nss1,(MCS0)_1TX
EBW
5720MHz Straddle 5.725-5.85GHz

02/08/2019

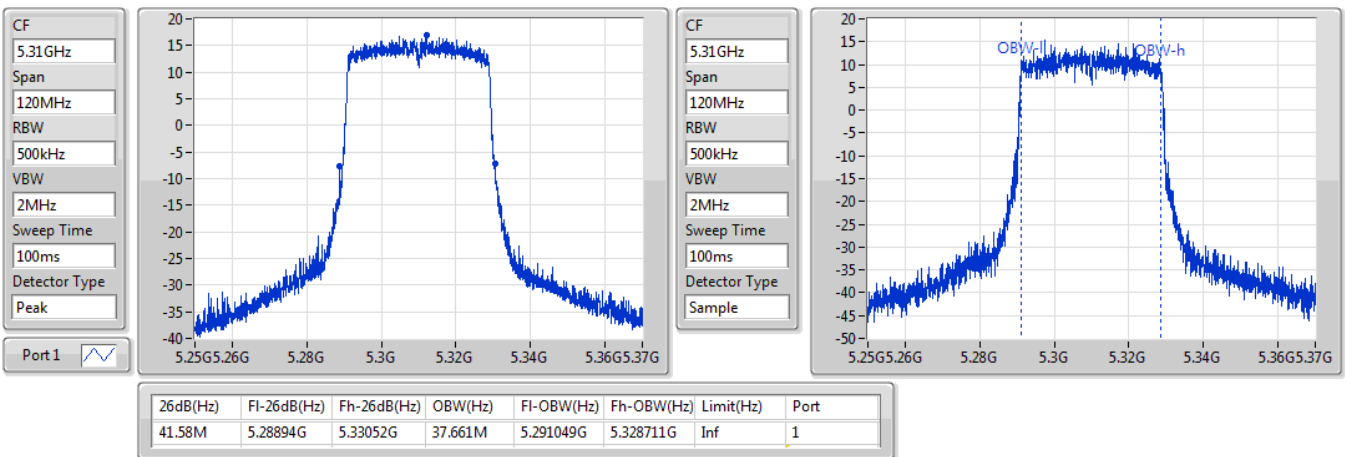


802.11ax HEW40_Nss1,(MCS0)_1TX
EBW
5270MHz

02/08/2019

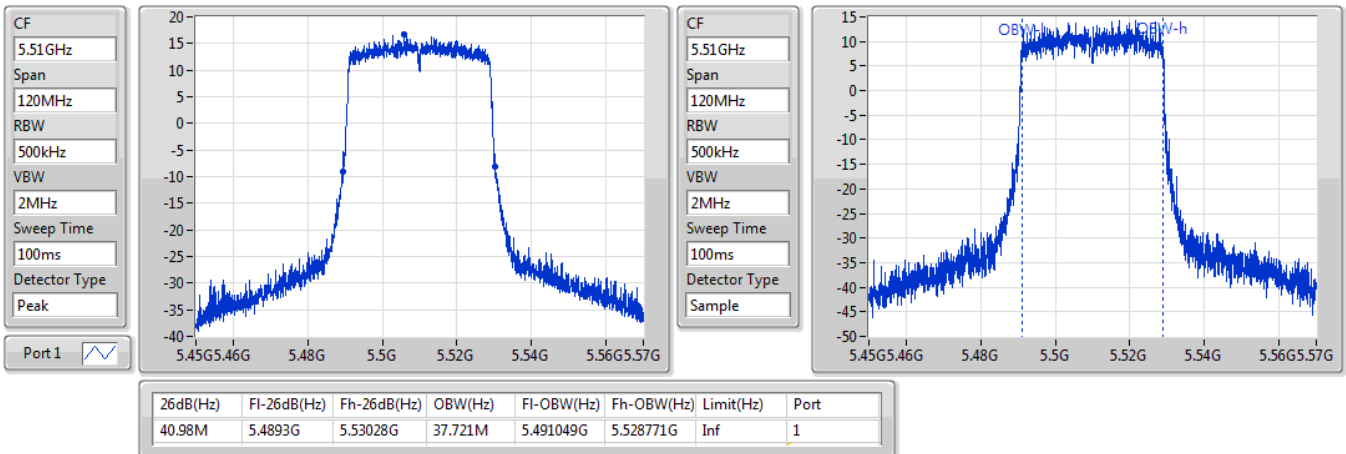

802.11ax HEW40_Nss1,(MCS0)_1TX
EBW
5310MHz

02/08/2019

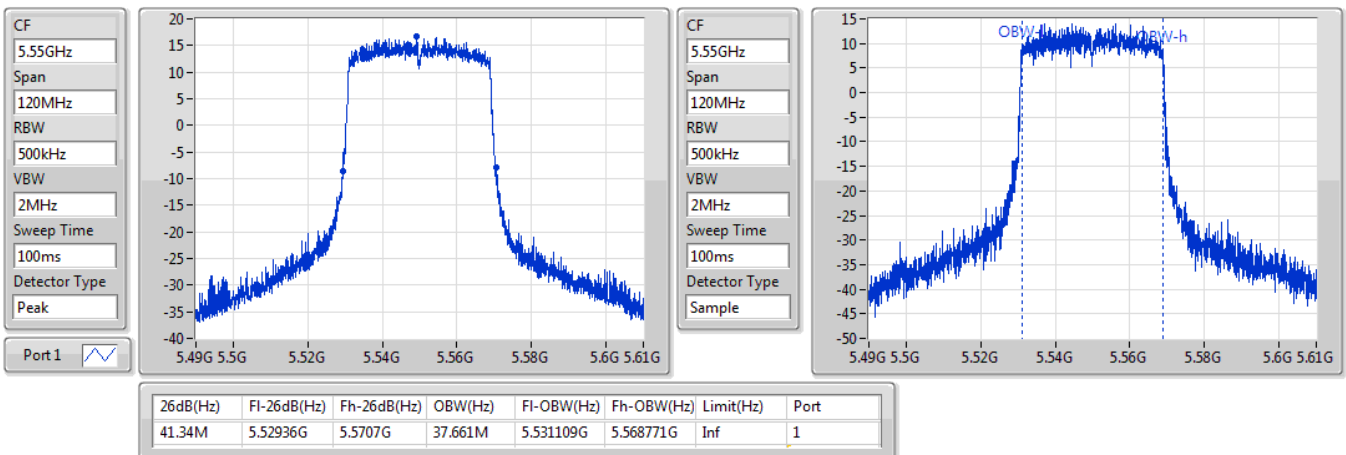


802.11ax HEW40_Nss1,(MCS0)_1TX
EBW
5510MHz

02/08/2019

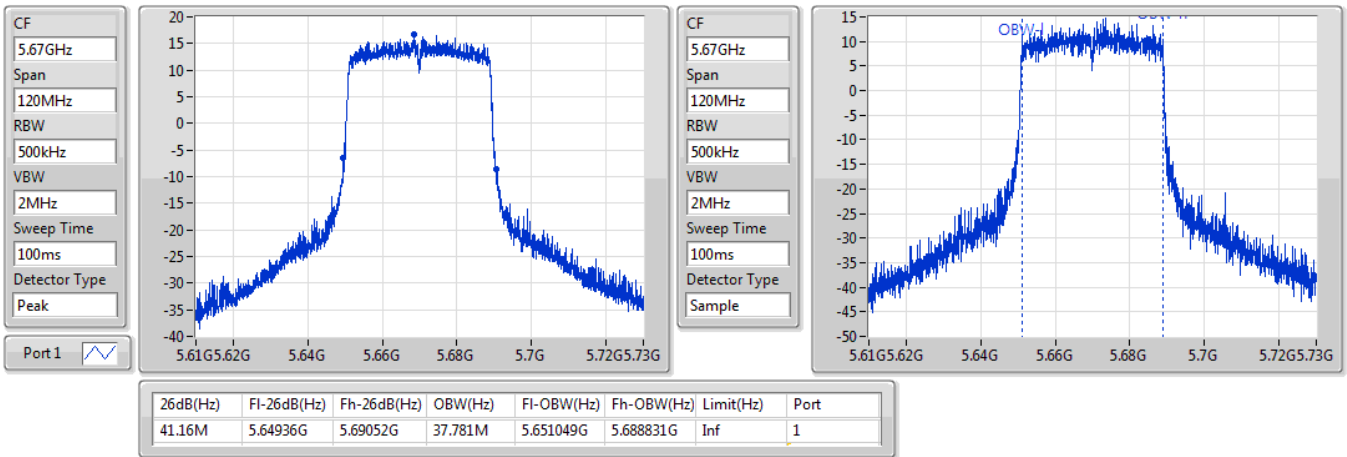

802.11ax HEW40_Nss1,(MCS0)_1TX
EBW
5550MHz

02/08/2019

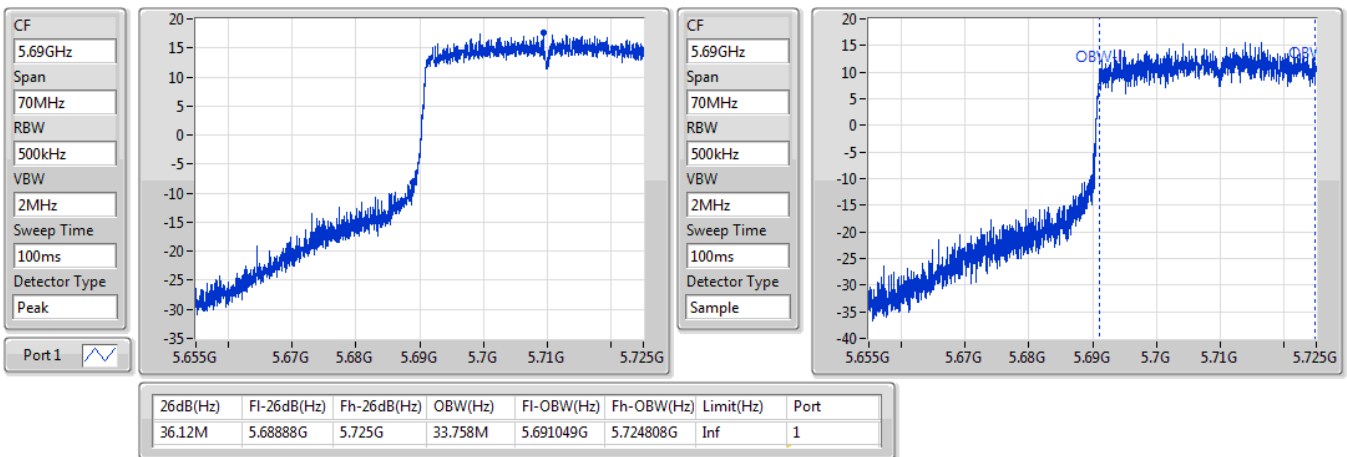


802.11ax HEW40_Nss1,(MCS0)_1TX
EBW
5670MHz

02/08/2019

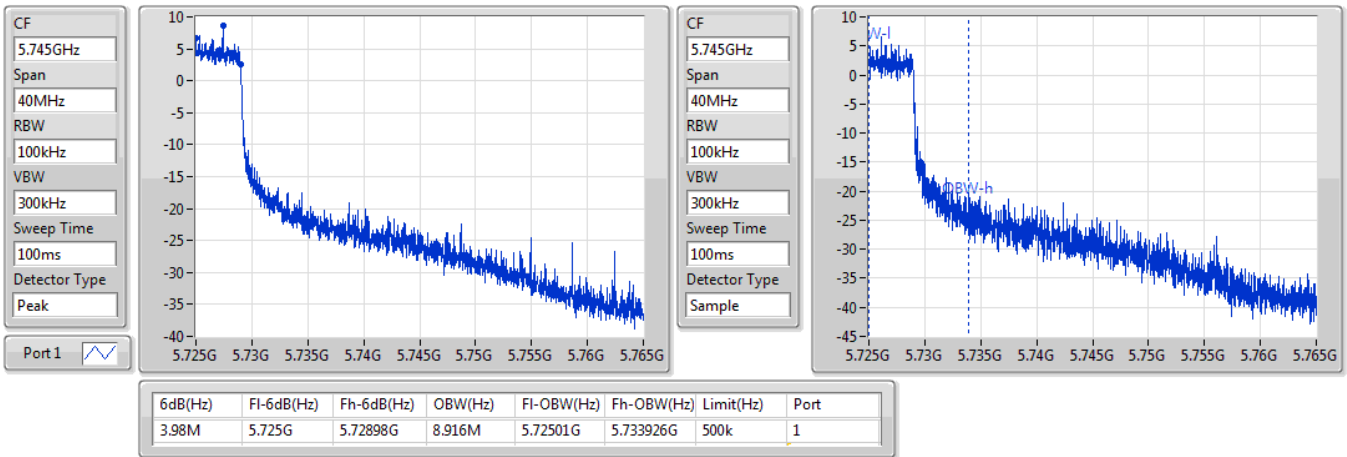

802.11ax HEW40_Nss1,(MCS0)_1TX
EBW
5710MHz Straddle 5.47-5.725GHz

02/08/2019

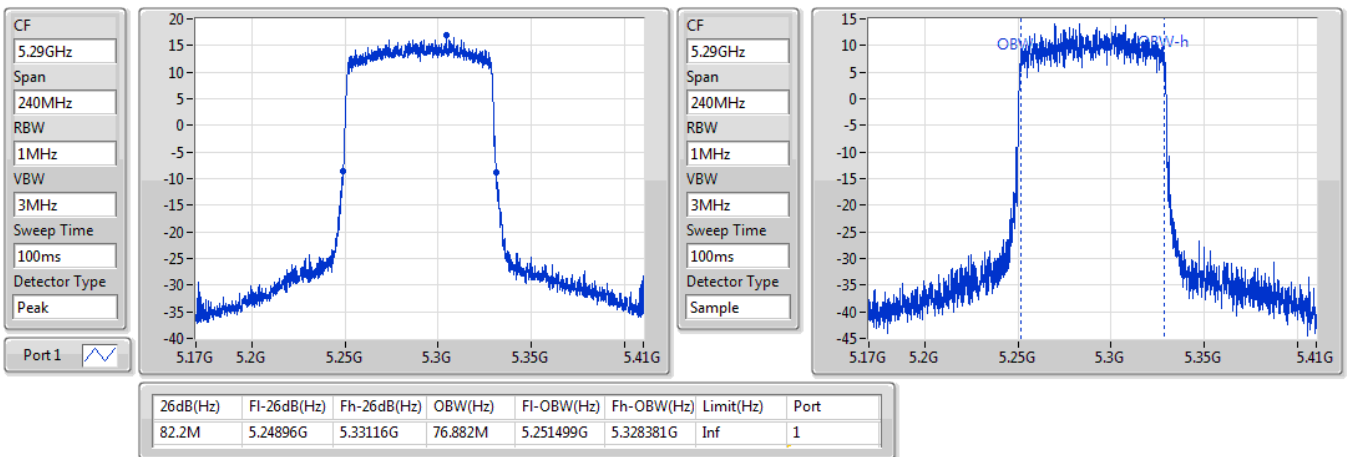


802.11ax HEW40_Nss1,(MCS0)_1TX
EBW
5710MHz Straddle 5.725-5.85GHz

02/08/2019

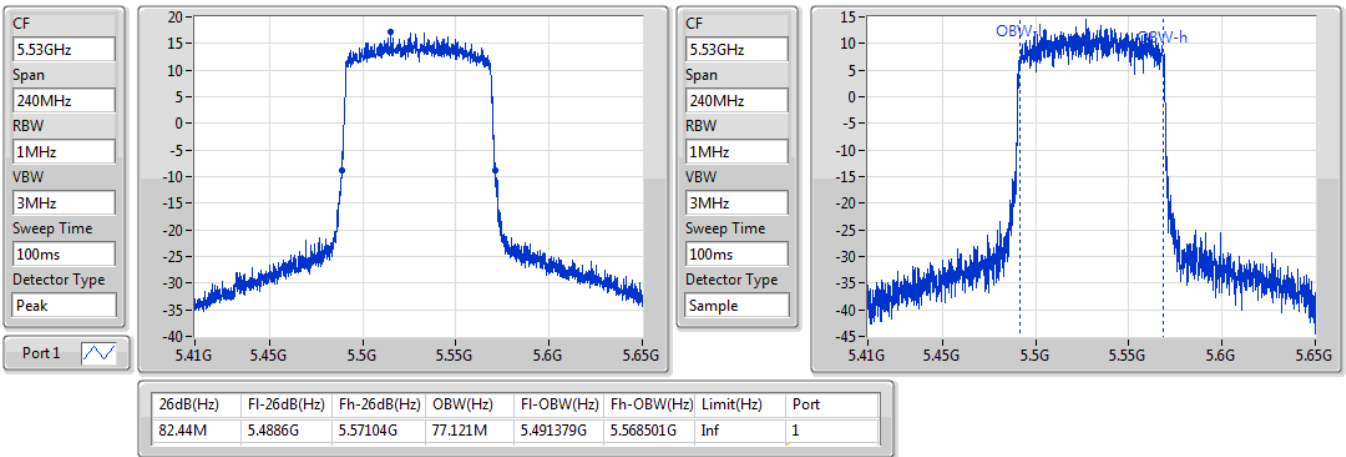

802.11ax HEW80_Nss1,(MCS0)_1TX
EBW
5290MHz

02/08/2019

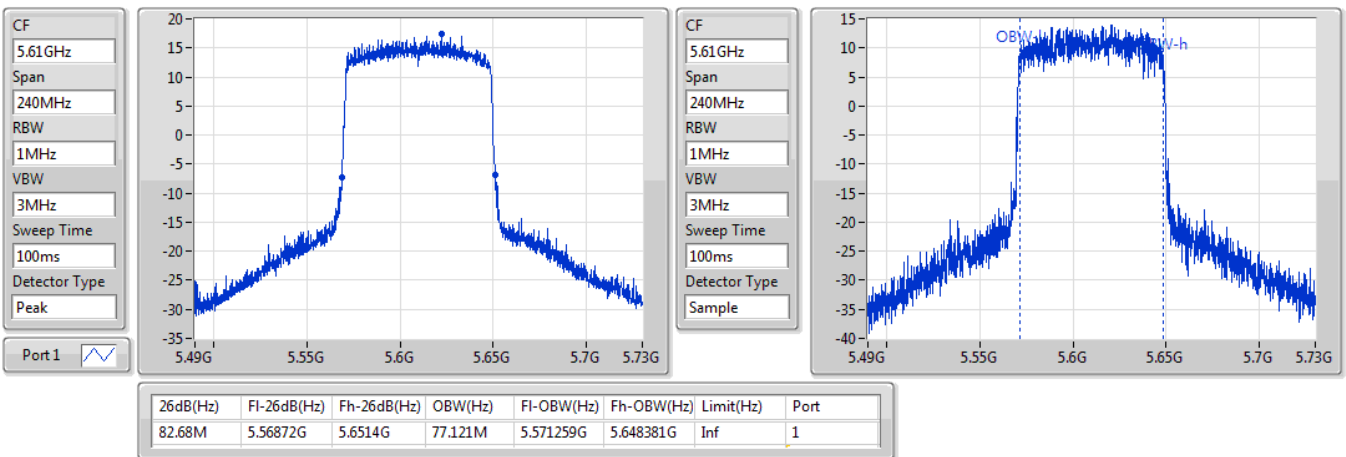


802.11ax HEW80_Nss1,(MCS0)_1TX
EBW
5530MHz

02/08/2019

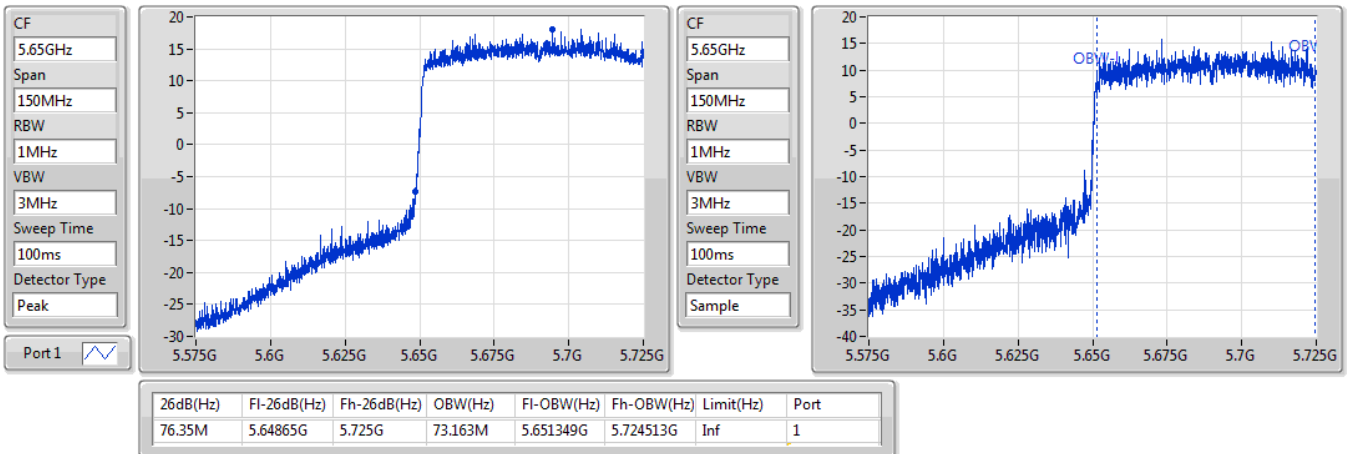

802.11ax HEW80_Nss1,(MCS0)_1TX
EBW
5610MHz

02/08/2019

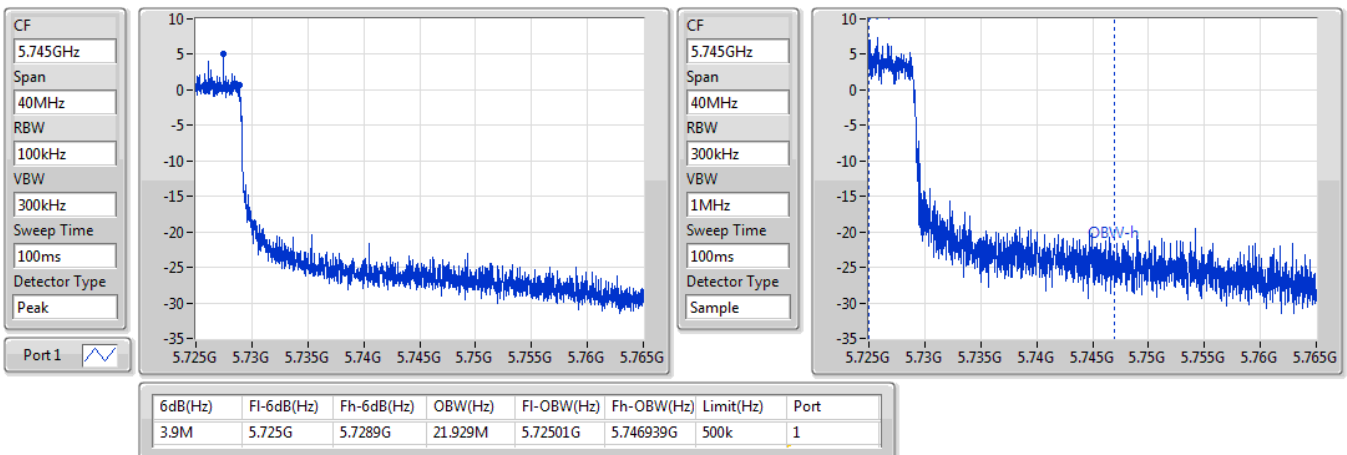


802.11ax HEW80_Nss1,(MCS0)_1TX
EBW
5690MHz Straddle 5.47-5.725GHz

02/08/2019


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

02/08/2019



**Summary**

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.25-5.35GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	20.76M	16.432M	16M4D1D	20.4M	16.372M
802.11ax HEW20_Nss1,(MCS0)_2TX	21.87M	18.921M	18M9D1D	21.66M	18.861M
802.11ax HEW40_Nss1,(MCS0)_2TX	41.16M	37.721M	37M7D1D	40.62M	37.661M
802.11ax HEW80_Nss1,(MCS0)_2TX	82.44M	77.001M	77M0D1D	82.08M	76.882M
5.47-5.725GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	20.76M	16.432M	16M4D1D	15.24M	13.223M
802.11ax HEW20_Nss1,(MCS0)_2TX	21.99M	18.951M	19M0D1D	15.96M	14.468M
802.11ax HEW40_Nss1,(MCS0)_2TX	41.46M	37.781M	37M8D1D	35.49M	33.758M
802.11ax HEW80_Nss1,(MCS0)_2TX	82.8M	77.241M	77M2D1D	76.425M	72.939M
5.725-5.85GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	3.08M	3.578M	3M58D1D	3.08M	3.558M
802.11ax HEW20_Nss1,(MCS0)_2TX	4.38M	4.498M	4M50D1D	4.12M	4.478M
802.11ax HEW40_Nss1,(MCS0)_2TX	3.9M	4.058M	4M06D1D	3.88M	4.038M
802.11ax HEW80_Nss1,(MCS0)_2TX	4.04M	4.138M	4M14D1D	3.9M	4.098M

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

Max-OBW = Maximum 99% occupied bandwidth;

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

Min-OBW = Minimum 99% occupied bandwidth;

Result

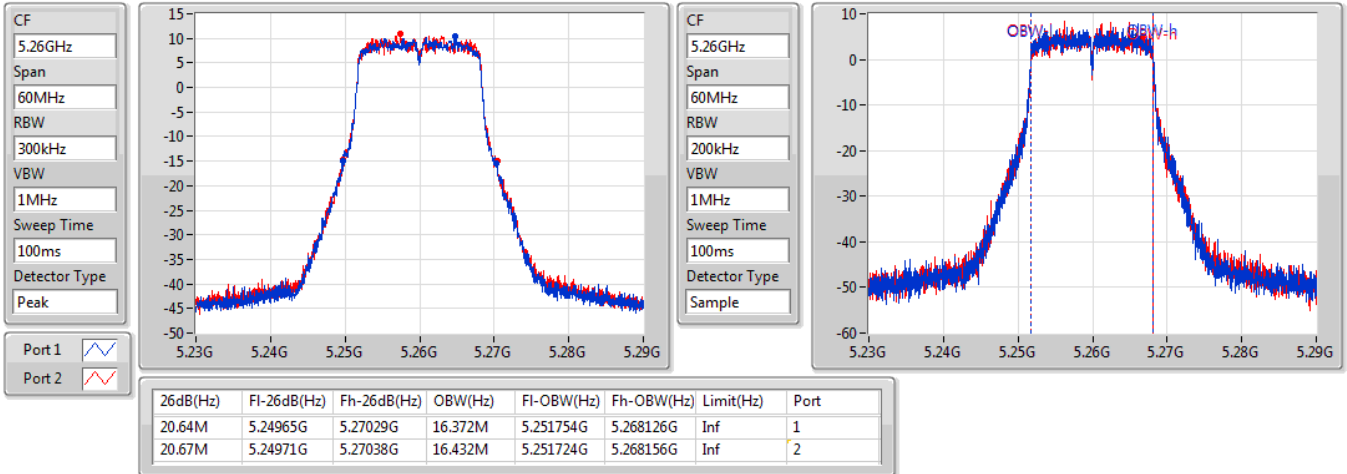
Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
5260MHz	Pass	Inf	20.64M	16.372M	20.67M	16.432M
5300MHz	Pass	Inf	20.46M	16.372M	20.4M	16.402M
5320MHz	Pass	Inf	20.76M	16.402M	20.4M	16.402M
5500MHz	Pass	Inf	20.55M	16.372M	20.46M	16.402M
5580MHz	Pass	Inf	20.55M	16.402M	20.58M	16.402M
5700MHz	Pass	Inf	20.64M	16.402M	20.76M	16.432M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	15.315M	13.223M	15.24M	13.268M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	3.08M	3.558M	3.08M	3.578M
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5260MHz	Pass	Inf	21.84M	18.861M	21.72M	18.891M
5300MHz	Pass	Inf	21.66M	18.921M	21.78M	18.921M
5320MHz	Pass	Inf	21.87M	18.921M	21.75M	18.921M
5500MHz	Pass	Inf	21.96M	18.891M	21.9M	18.891M
5580MHz	Pass	Inf	21.51M	18.921M	21.75M	18.921M
5700MHz	Pass	Inf	21.99M	18.951M	21.75M	18.921M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	15.96M	14.498M	16.05M	14.468M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	4.38M	4.478M	4.12M	4.498M
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5270MHz	Pass	Inf	40.68M	37.721M	40.62M	37.661M
5310MHz	Pass	Inf	41.16M	37.661M	40.92M	37.721M
5510MHz	Pass	Inf	41.22M	37.721M	41.04M	37.721M
5550MHz	Pass	Inf	41.22M	37.721M	41.46M	37.661M
5670MHz	Pass	Inf	40.74M	37.721M	41.34M	37.781M
5710MHz Straddle 5.47-5.725GHz	Pass	Inf	35.49M	33.758M	35.595M	33.758M
5710MHz Straddle 5.725-5.85GHz	Pass	500k	3.88M	4.038M	3.9M	4.058M
802.11ax HEW80_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5290MHz	Pass	Inf	82.44M	77.001M	82.08M	76.882M
5530MHz	Pass	Inf	82.8M	77.001M	82.56M	77.241M
5610MHz	Pass	Inf	82.44M	77.121M	82.32M	77.001M
5690MHz Straddle 5.47-5.725GHz	Pass	Inf	76.425M	73.313M	76.8M	72.939M
5690MHz Straddle 5.725-5.85GHz	Pass	500k	3.9M	4.098M	4.04M	4.138M

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

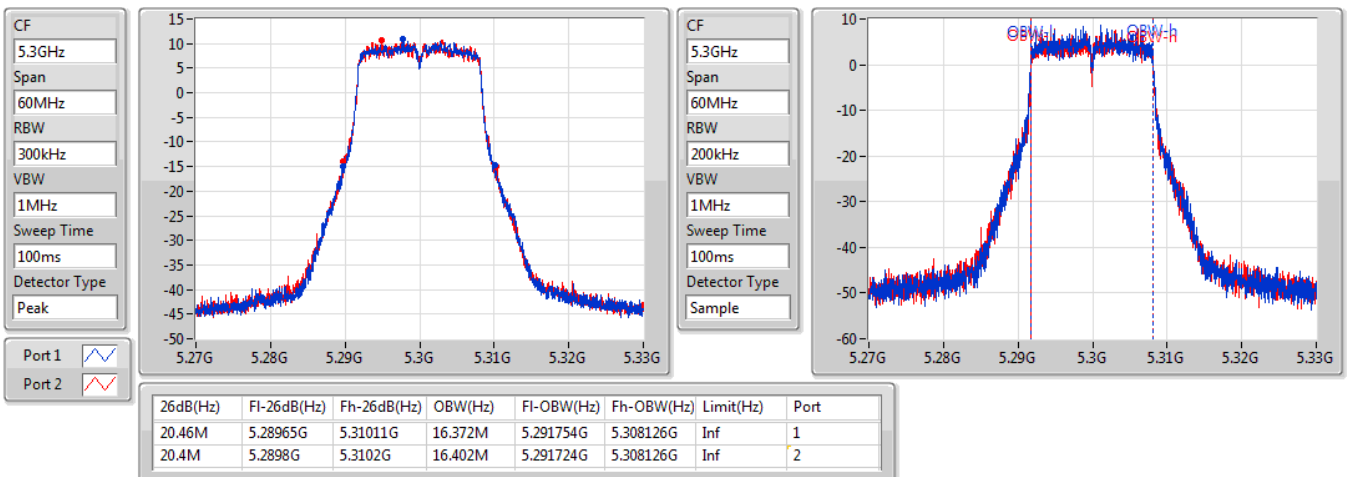
Port X-OBW = Port X 99% occupied bandwidth;

802.11a_Nss1,(6Mbps)_2TX
EBW
5260MHz

01/08/2019

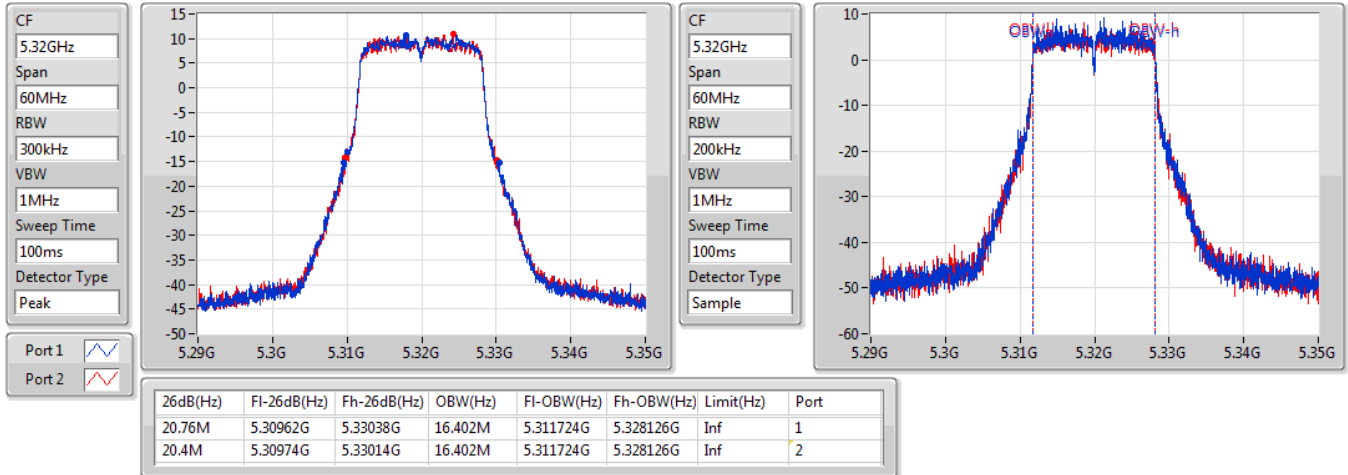

802.11a_Nss1,(6Mbps)_2TX
EBW
5300MHz

01/08/2019

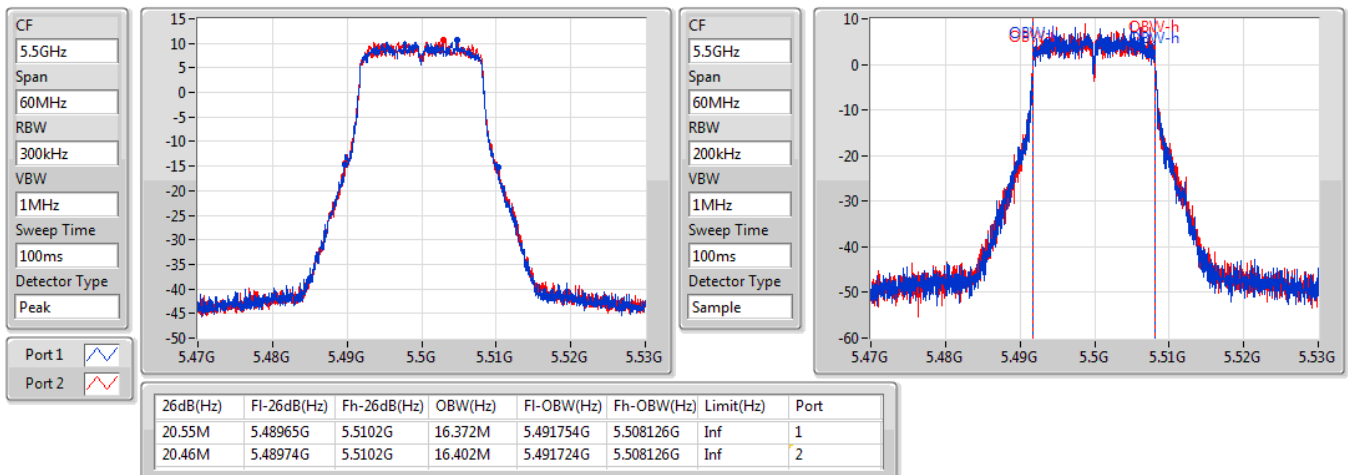


802.11a_Nss1,(6Mbps)_2TX
EBW
5320MHz

01/08/2019

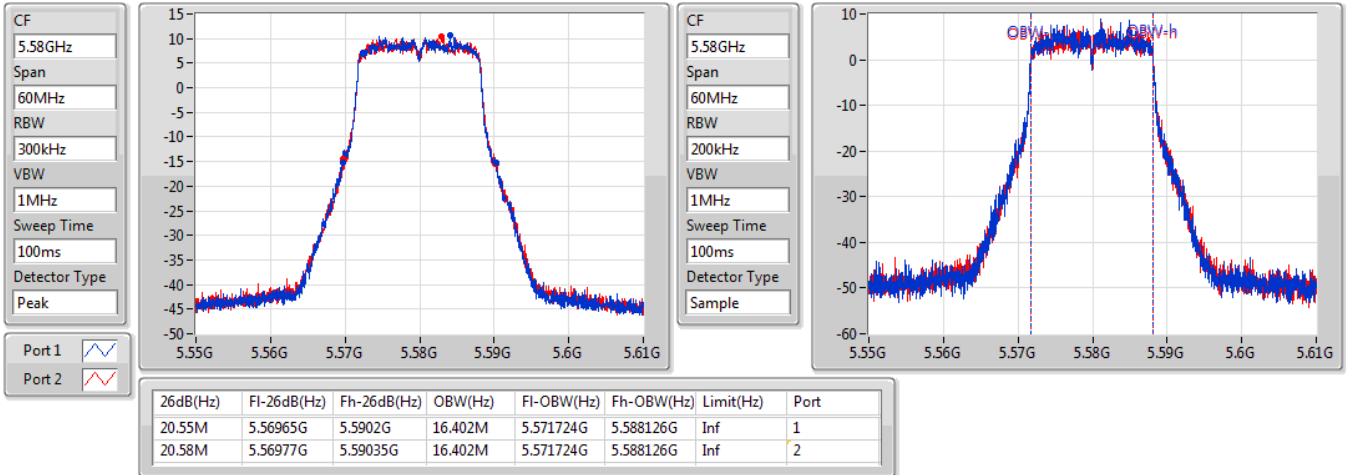

802.11a_Nss1,(6Mbps)_2TX
EBW
5500MHz

01/08/2019

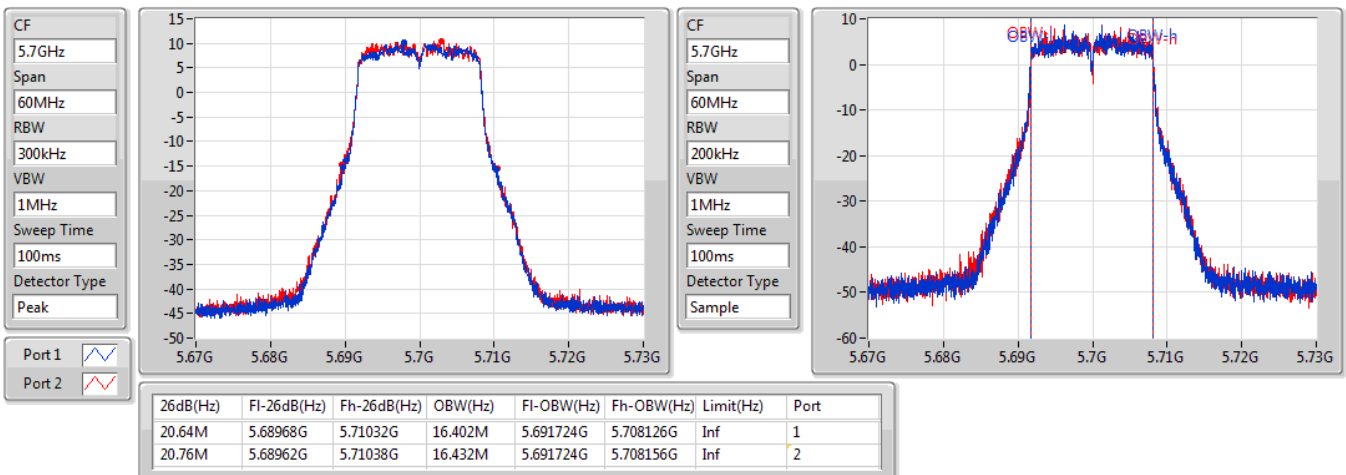


802.11a_Nss1,(6Mbps)_2TX
EBW
5580MHz

01/08/2019

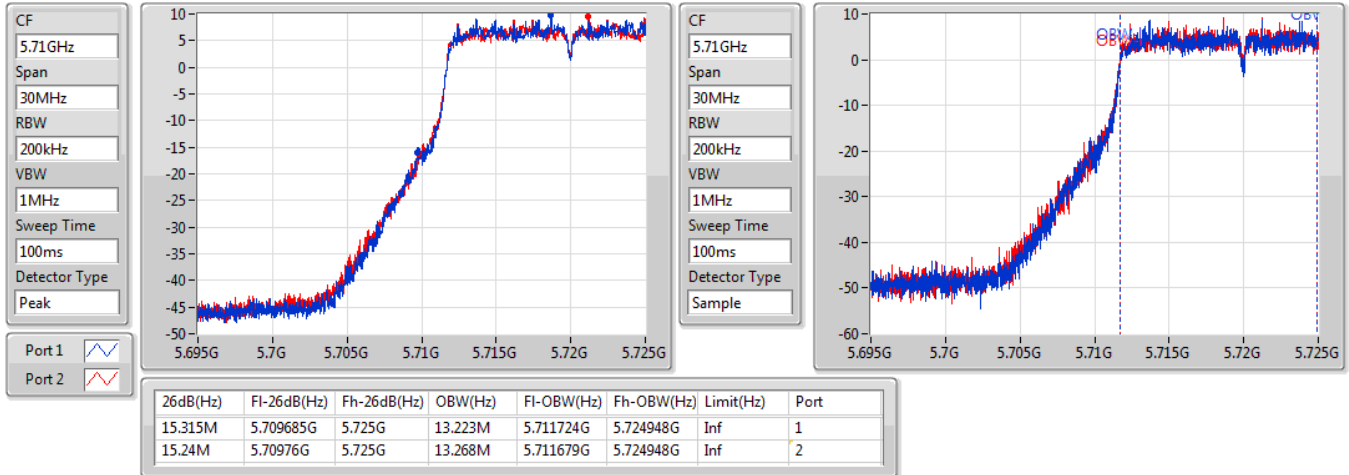

802.11a_Nss1,(6Mbps)_2TX
EBW
5700MHz

01/08/2019

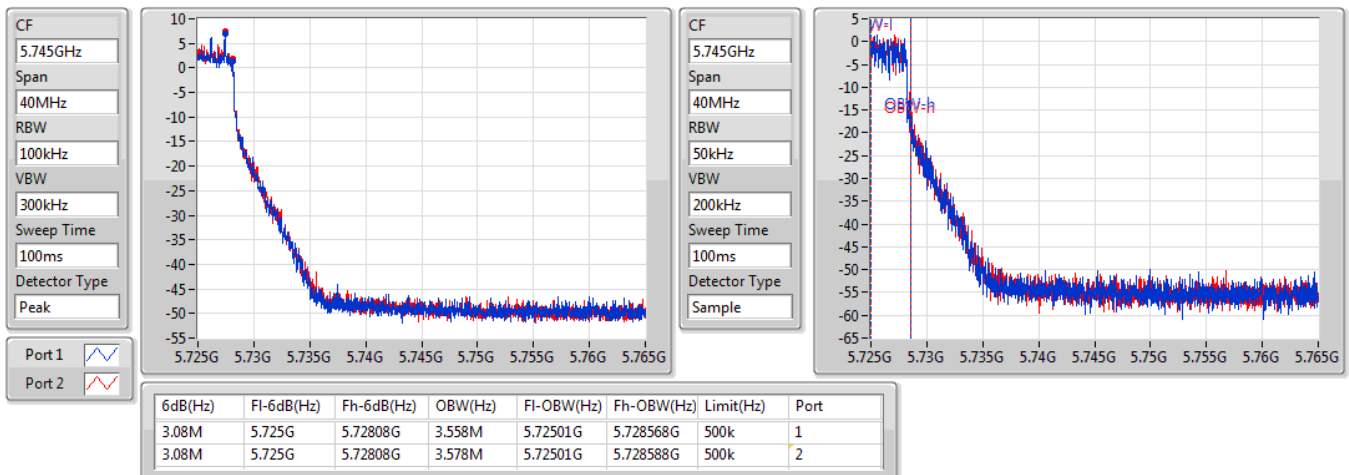


802.11a_Nss1,(6Mbps)_2TX
EBW
5720MHz Straddle 5.47-5.725GHz

01/08/2019

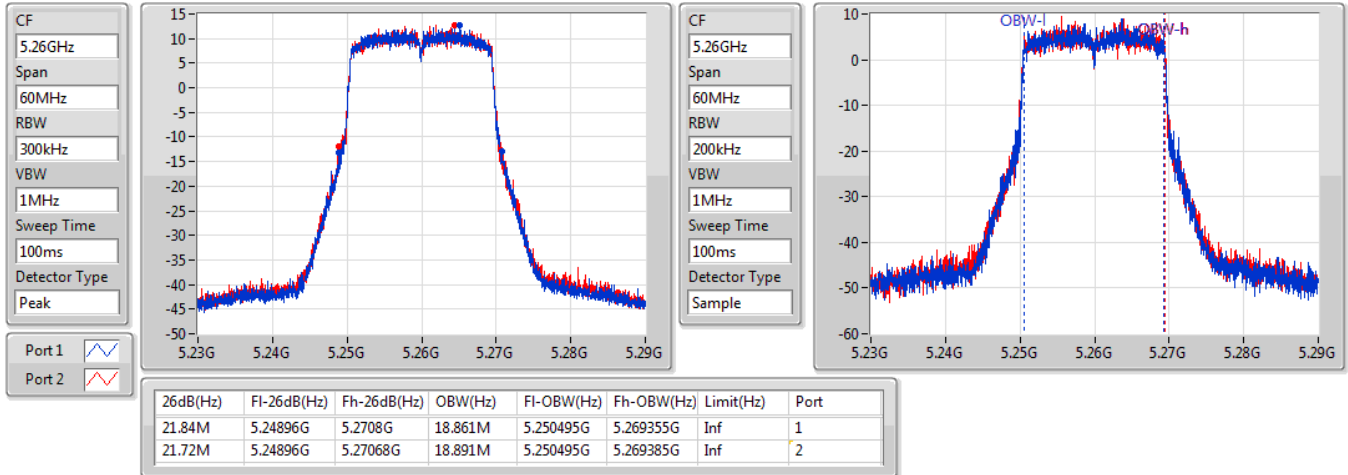

802.11a_Nss1,(6Mbps)_2TX
EBW
5720MHz Straddle 5.725-5.85GHz

01/08/2019

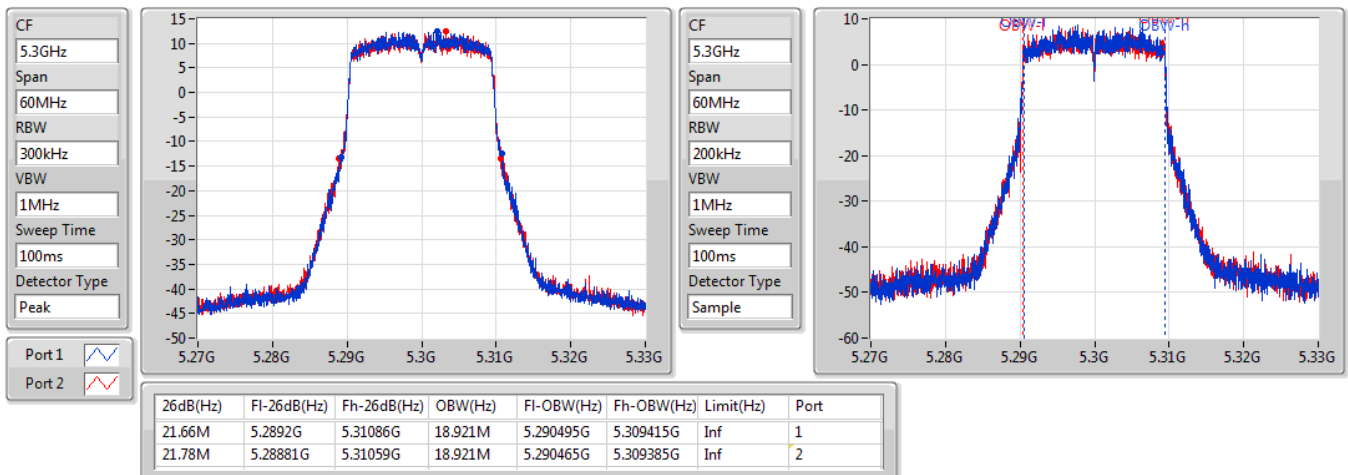


802.11ax HEW20_Nss1,(MCS0)_2TX
EBW
5260MHz

01/08/2019

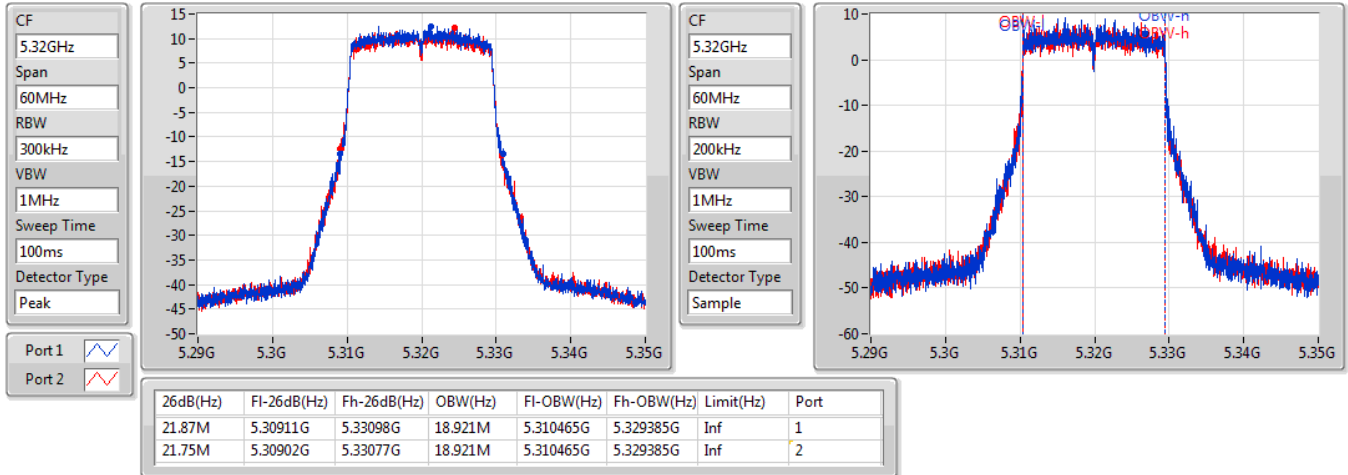

802.11ax HEW20_Nss1,(MCS0)_2TX
EBW
5300MHz

01/08/2019

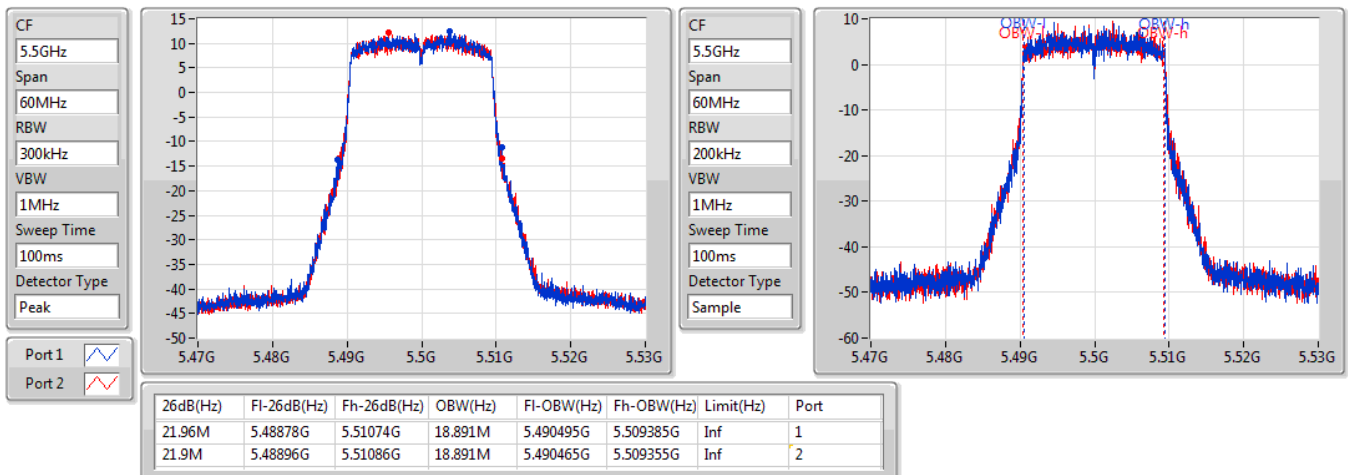


802.11ax HEW20_Nss1,(MCS0)_2TX
EBW
5320MHz

01/08/2019

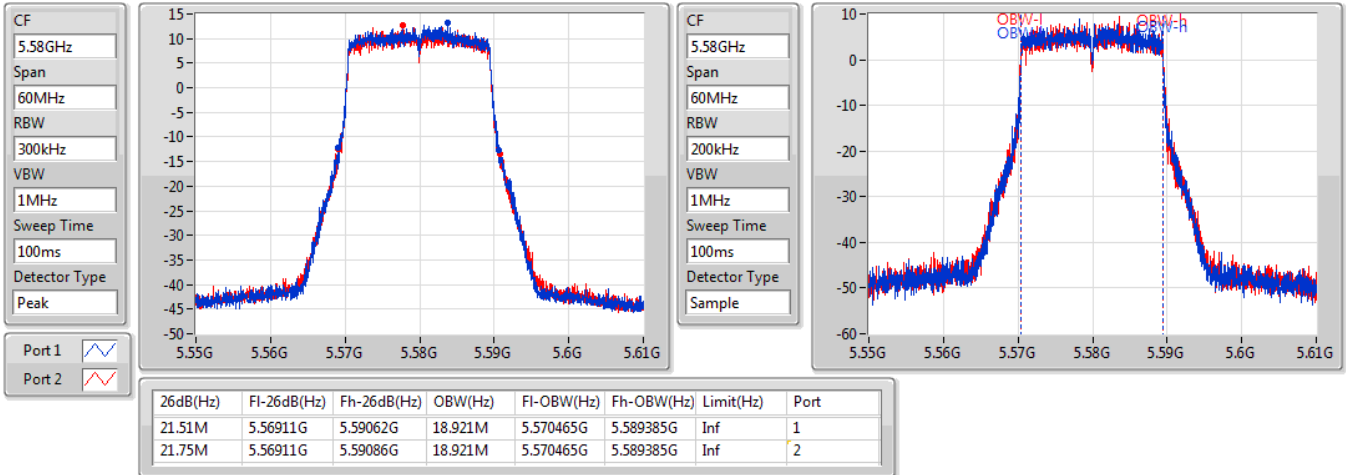

802.11ax HEW20_Nss1,(MCS0)_2TX
EBW
5500MHz

01/08/2019

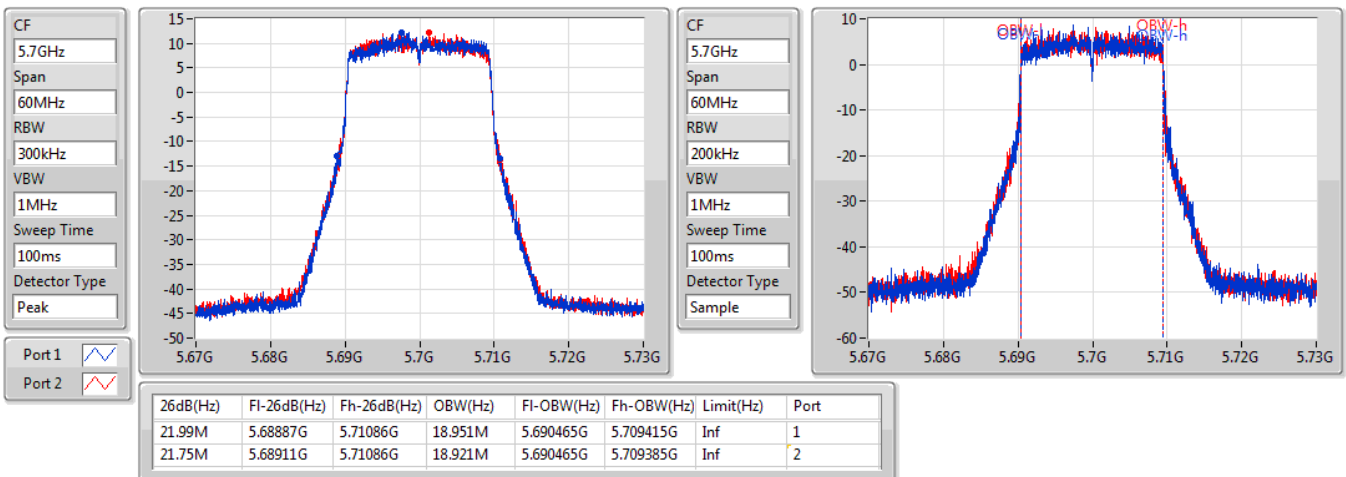


802.11ax HEW20_Nss1,(MCS0)_2TX
EBW
5580MHz

01/08/2019

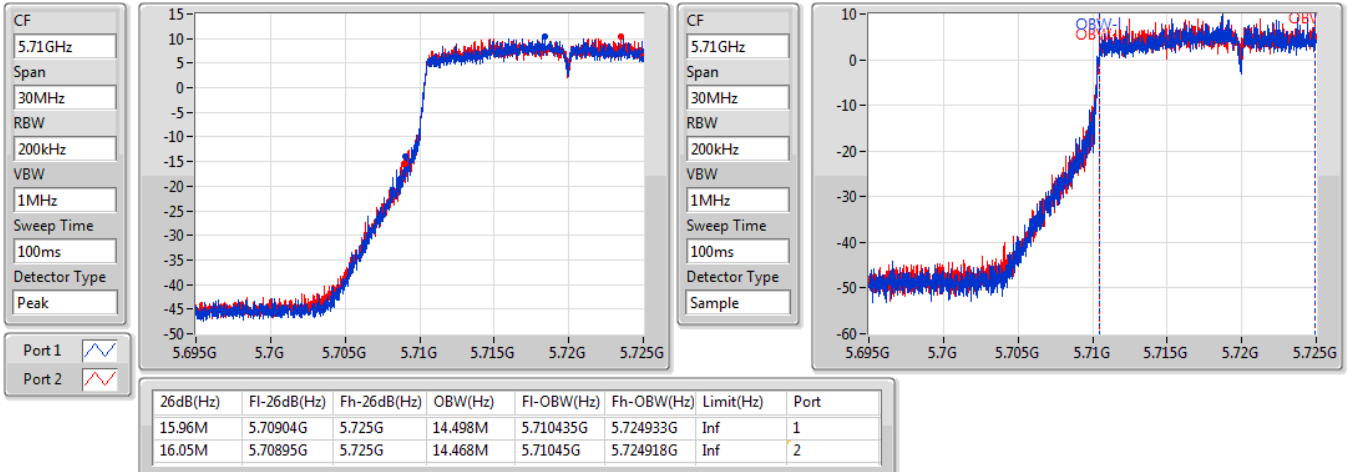

802.11ax HEW20_Nss1,(MCS0)_2TX
EBW
5700MHz

01/08/2019

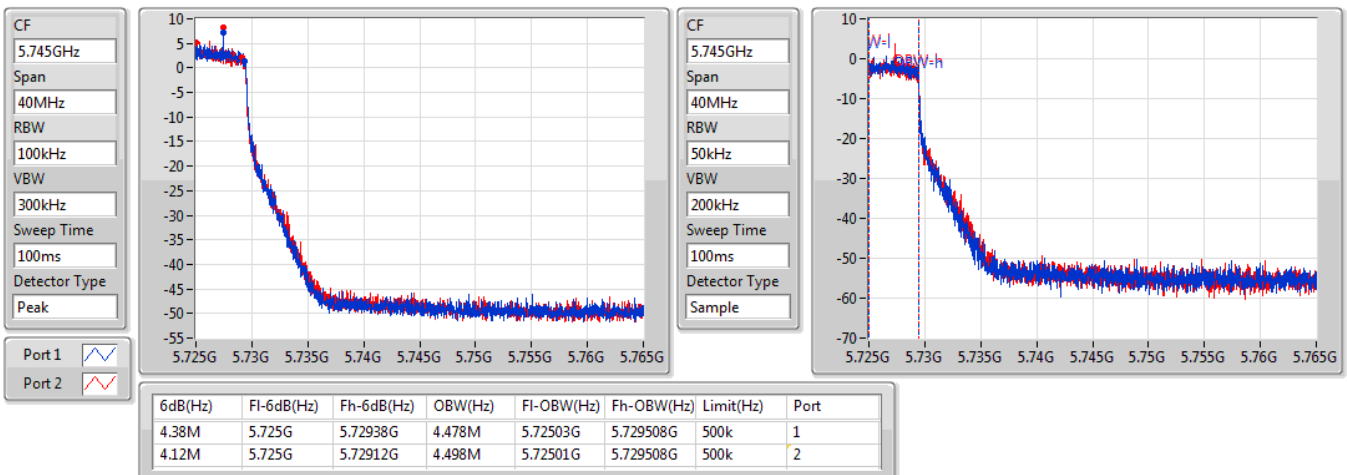


802.11ax HEW20_Nss1,(MCS0)_2TX
EBW
5720MHz Straddle 5.47-5.725GHz

01/08/2019

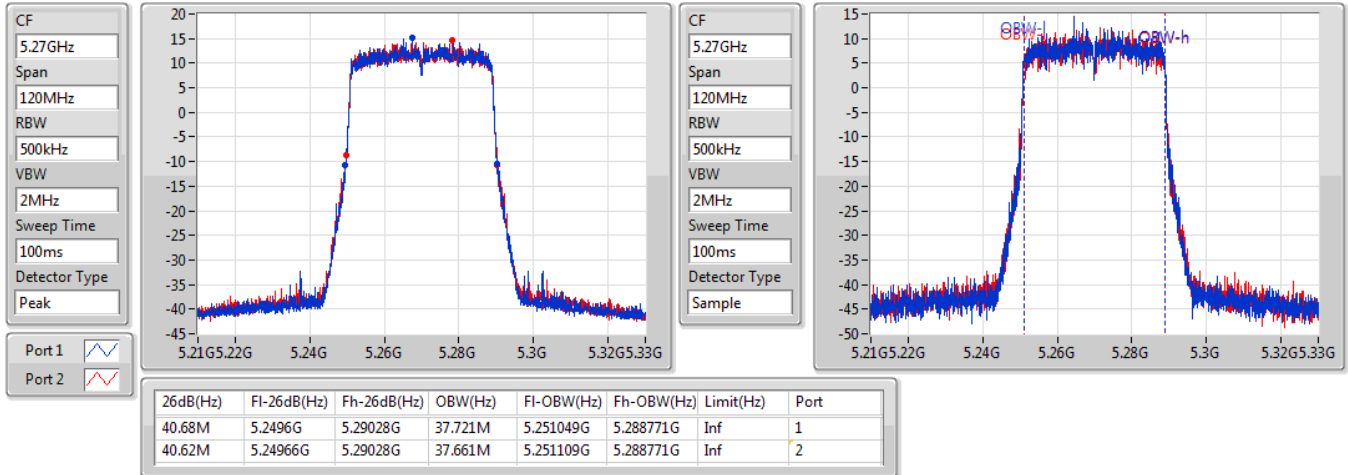

802.11ax HEW20_Nss1,(MCS0)_2TX
EBW
5720MHz Straddle 5.725-5.85GHz

01/08/2019

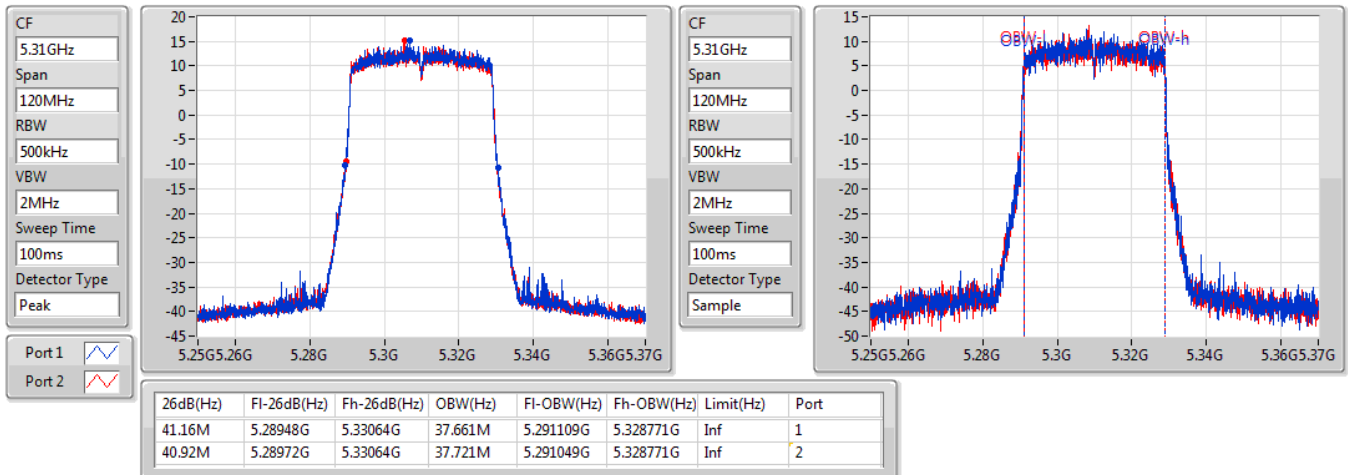


802.11ax HEW40_Nss1,(MCS0)_2TX
EBW
5270MHz

01/08/2019

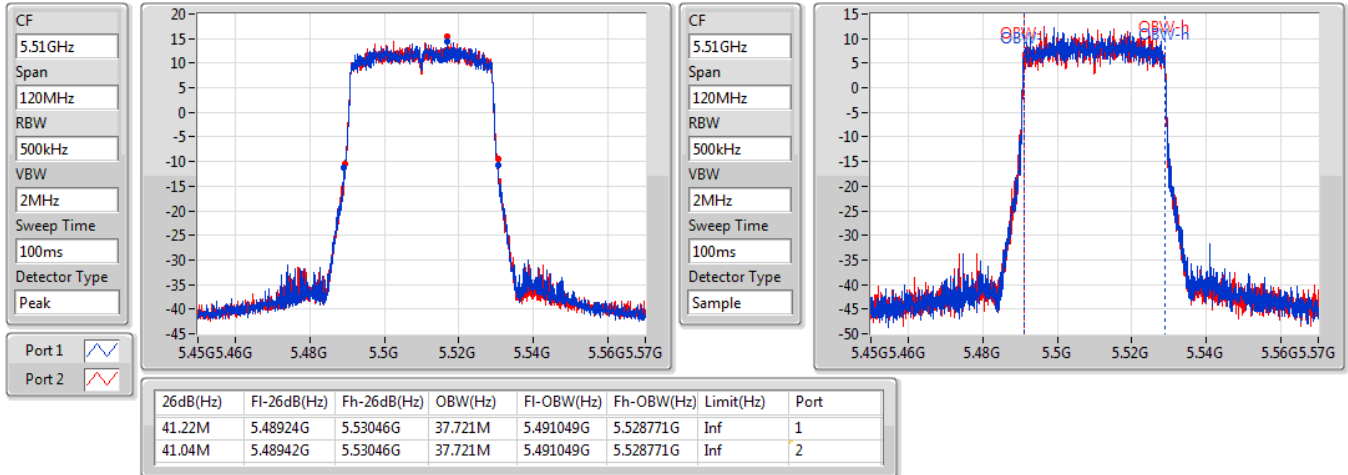

802.11ax HEW40_Nss1,(MCS0)_2TX
EBW
5310MHz

01/08/2019

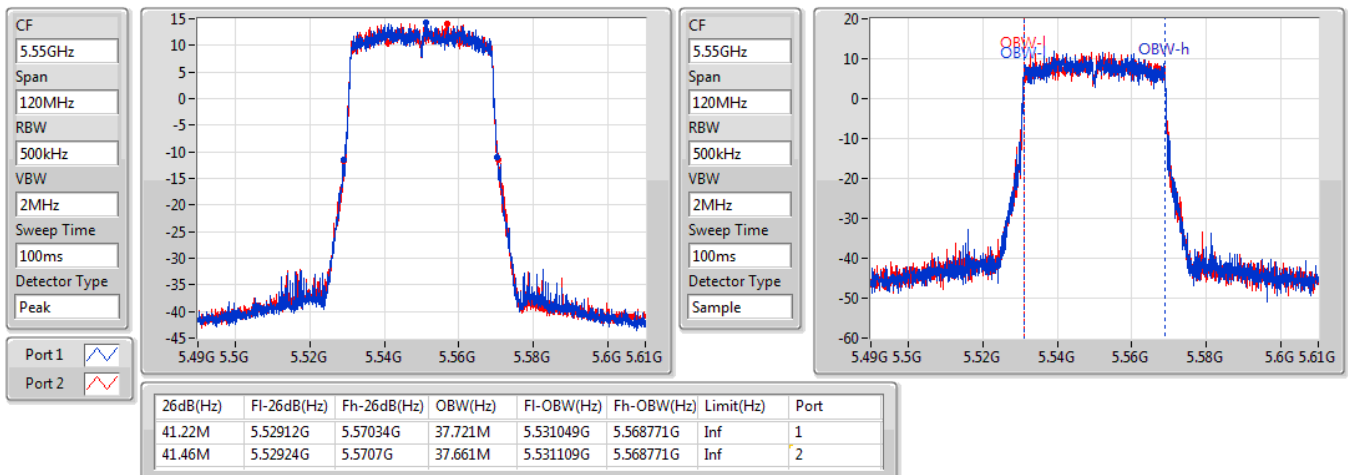


802.11ax HEW40_Nss1,(MCS0)_2TX
EBW
5510MHz

01/08/2019

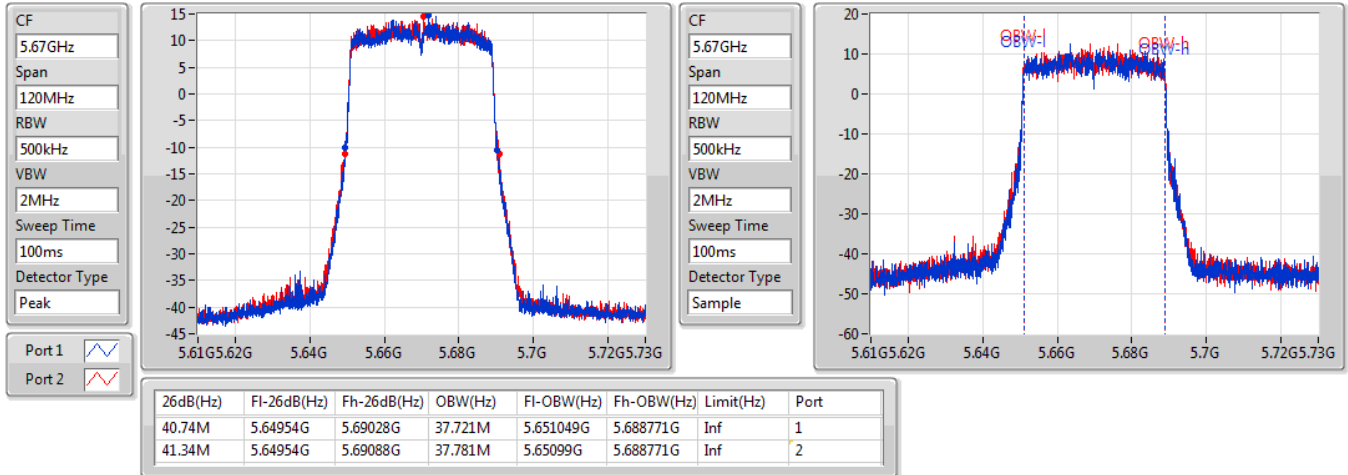

802.11ax HEW40_Nss1,(MCS0)_2TX
EBW
5550MHz

01/08/2019

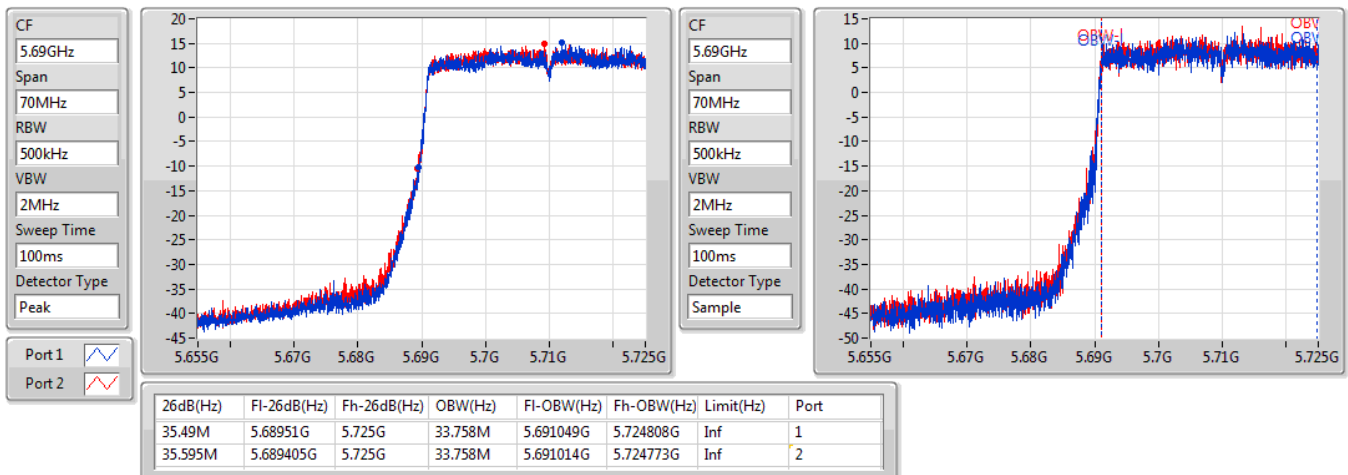


802.11ax HEW40_Nss1,(MCS0)_2TX
EBW
5670MHz

01/08/2019

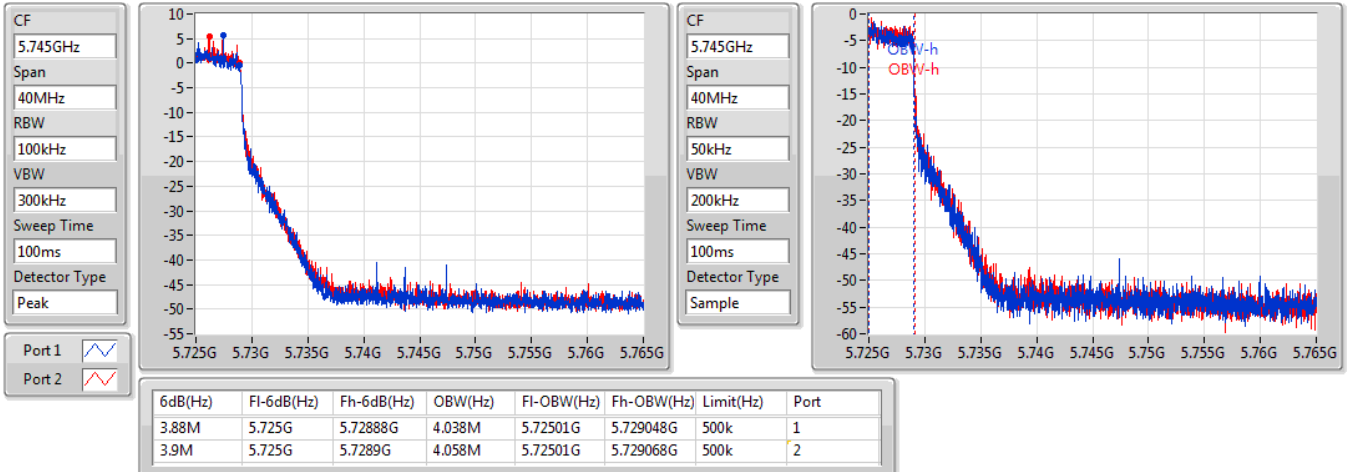

802.11ax HEW40_Nss1,(MCS0)_2TX
EBW
5710MHz Straddle 5.47-5.725GHz

01/08/2019

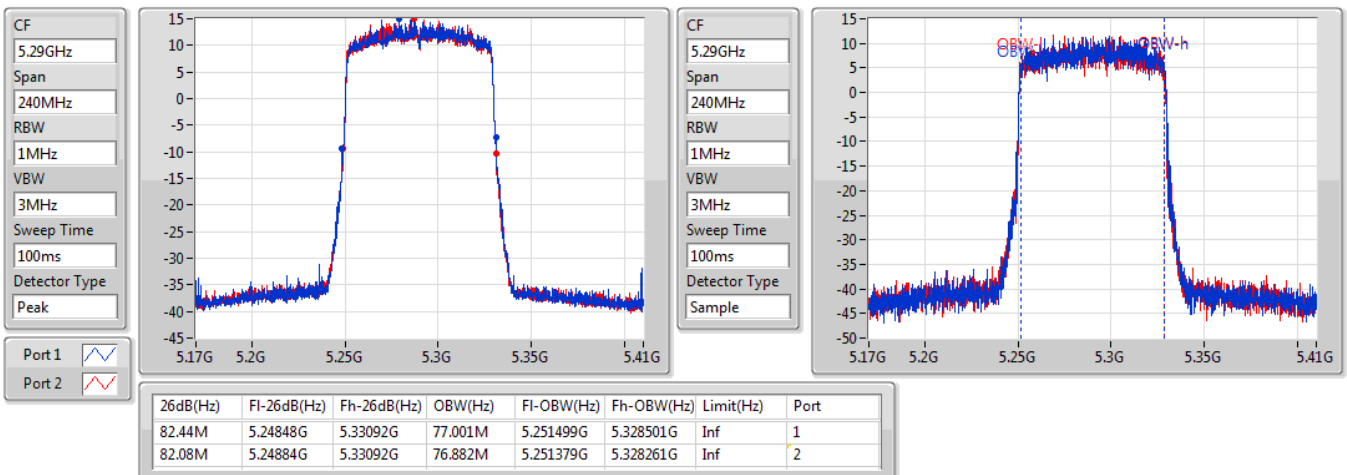


802.11ax HEW40_Nss1,(MCS0)_2TX
EBW
5710MHz Straddle 5.725-5.85GHz

01/08/2019

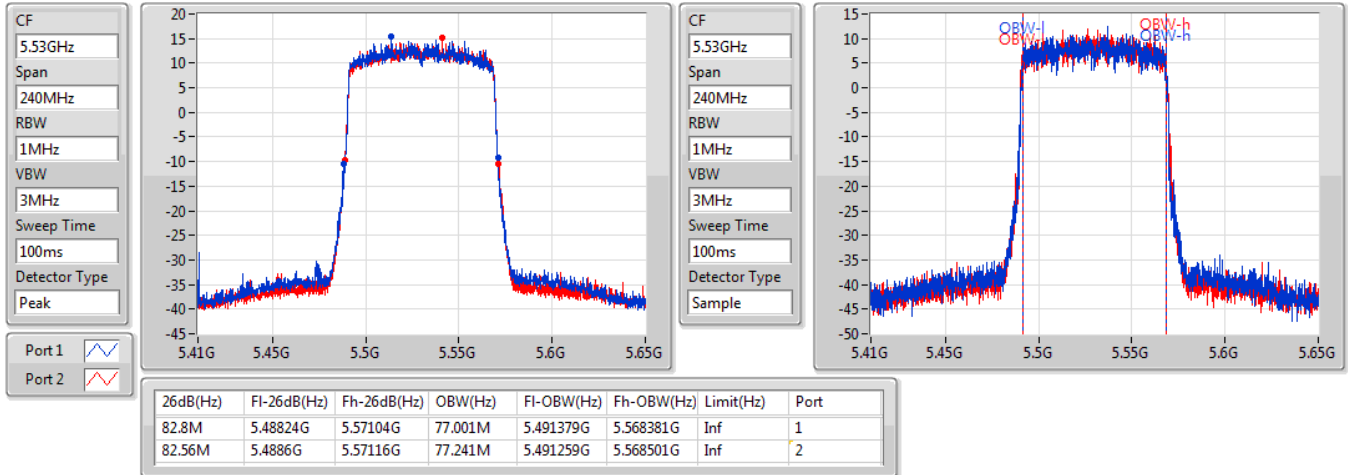

802.11ax HEW80_Nss1,(MCS0)_2TX
EBW
5290MHz

01/08/2019

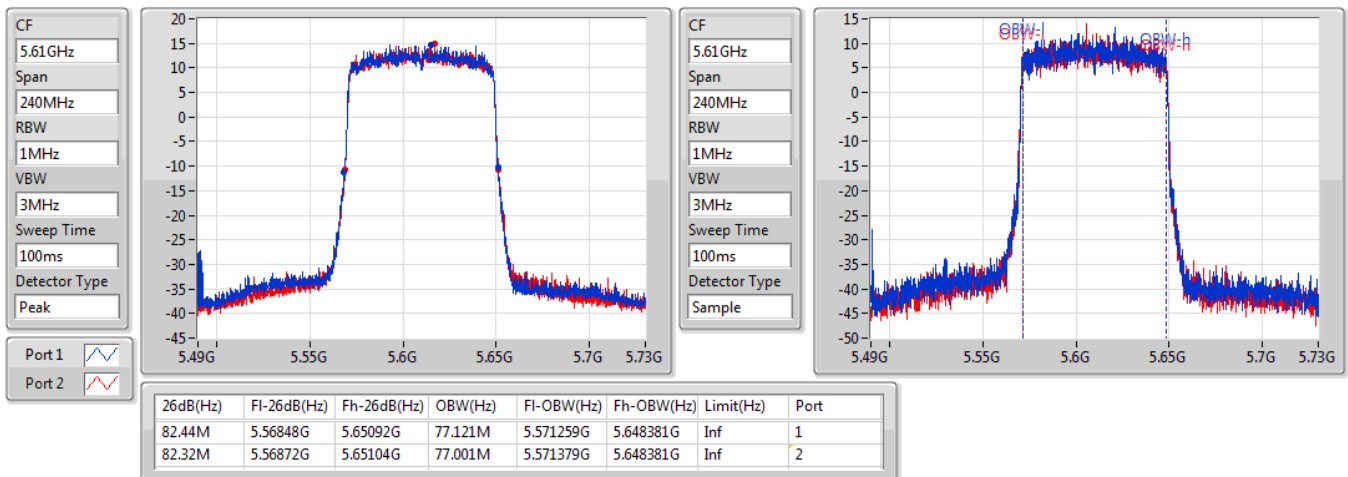


802.11ax HEW80_Nss1,(MCS0)_2TX
EBW
5530MHz

01/08/2019

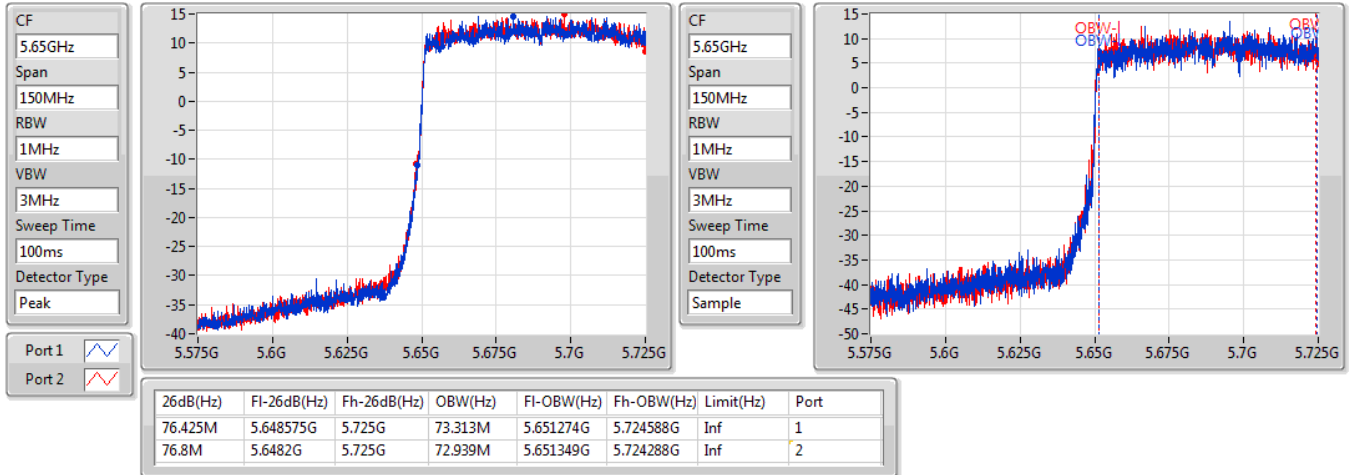

802.11ax HEW80_Nss1,(MCS0)_2TX
EBW
5610MHz

01/08/2019

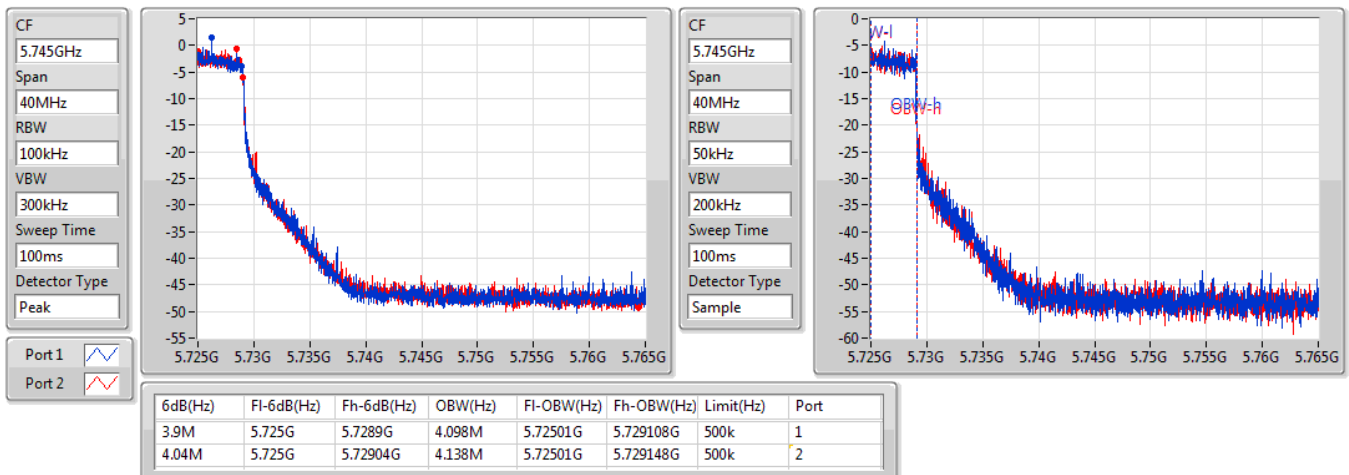


802.11ax HEW80_Nss1,(MCS0)_2TX
EBW
5690MHz Straddle 5.47-5.725GHz

01/08/2019


802.11ax HEW80_Nss1,(MCS0)_2TX
EBW
5690MHz Straddle 5.725-5.85GHz

01/08/2019



Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.25-5.35GHz	-	-	-	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	22.05M	18.891M	18M9D1D	21.54M	18.861M
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	41.22M	37.781M	37M8D1D	40.38M	37.601M
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	81.6M	77.001M	77M0D1D	81.6M	76.882M
5.47-5.725GHz	-	-	-	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	21.93M	18.921M	18M9D1D	15.795M	14.468M
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	41.04M	37.781M	37M8D1D	35.385M	33.723M
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	81.72M	77.001M	77M0D1D	75.675M	72.939M
5.725-5.85GHz	-	-	-	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	4.36M	4.478M	4M48D1D	4.16M	4.478M
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	4.04M	4.078M	4M08D1D	3.96M	4.038M
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	4M	4.098M	4M10D1D	3.94M	4.078M

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

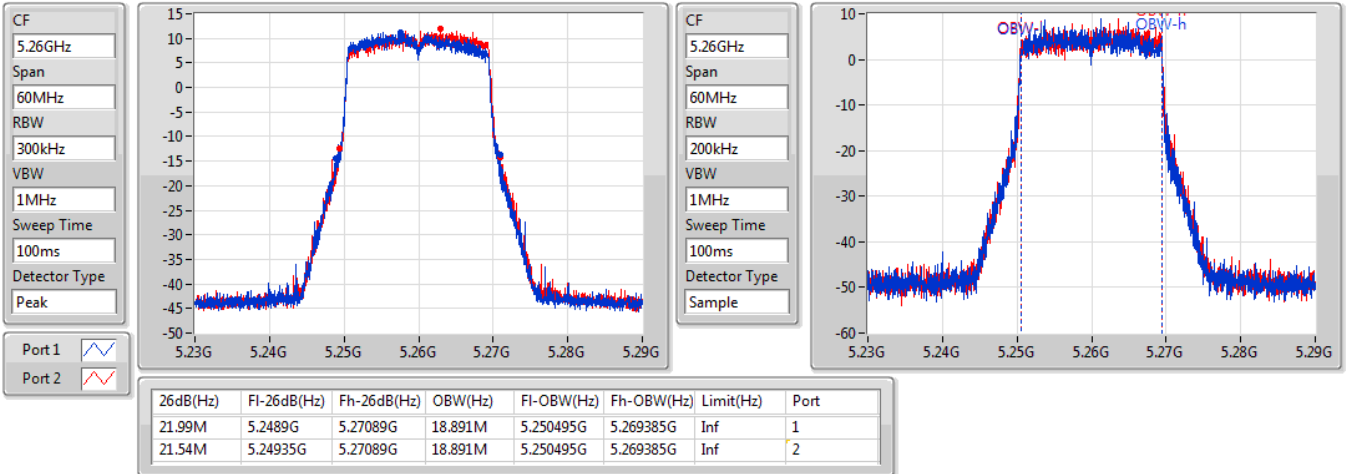
Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5260MHz	Pass	Inf	21.99M	18.891M	21.54M	18.891M
5300MHz	Pass	Inf	21.6M	18.861M	21.78M	18.861M
5320MHz	Pass	Inf	21.72M	18.891M	22.05M	18.861M
5500MHz	Pass	Inf	21.75M	18.921M	21.63M	18.861M
5580MHz	Pass	Inf	21.69M	18.891M	21.84M	18.831M
5700MHz	Pass	Inf	21.57M	18.861M	21.93M	18.861M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	15.795M	14.468M	15.945M	14.498M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	4.36M	4.478M	4.16M	4.478M
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5270MHz	Pass	Inf	40.8M	37.781M	40.38M	37.601M
5310MHz	Pass	Inf	41.22M	37.721M	40.8M	37.661M
5510MHz	Pass	Inf	40.92M	37.781M	40.38M	37.661M
5550MHz	Pass	Inf	40.86M	37.721M	41.04M	37.721M
5670MHz	Pass	Inf	40.74M	37.661M	40.86M	37.601M
5710MHz Straddle 5.47-5.725GHz	Pass	Inf	35.665M	33.793M	35.385M	33.723M
5710MHz Straddle 5.725-5.85GHz	Pass	500k	3.96M	4.038M	4.04M	4.078M
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5290MHz	Pass	Inf	81.6M	77.001M	81.6M	76.882M
5530MHz	Pass	Inf	81.72M	76.882M	81.36M	77.001M
5610MHz	Pass	Inf	81.24M	77.001M	81.36M	76.762M
5690MHz Straddle 5.47-5.725GHz	Pass	Inf	75.675M	72.939M	75.825M	73.163M
5690MHz Straddle 5.725-5.85GHz	Pass	500k	4M	4.078M	3.94M	4.098M

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

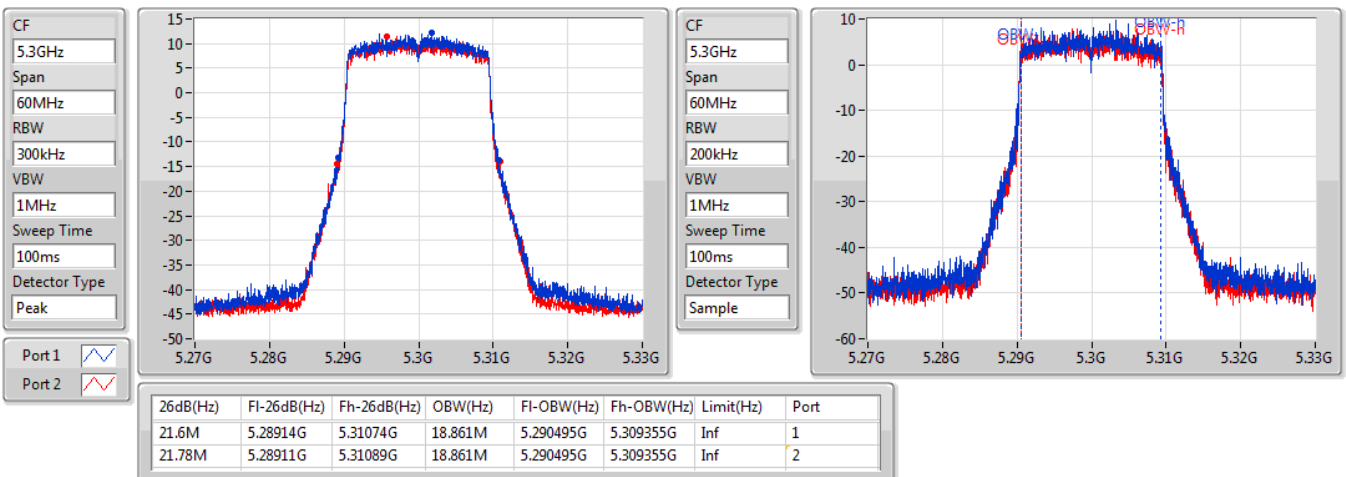
Port X-OBW = Port X 99% occupied bandwidth;

802.11ax HEW20-BF_Nss1,(MCS0)_2TX
EBW
5260MHz

06/08/2019

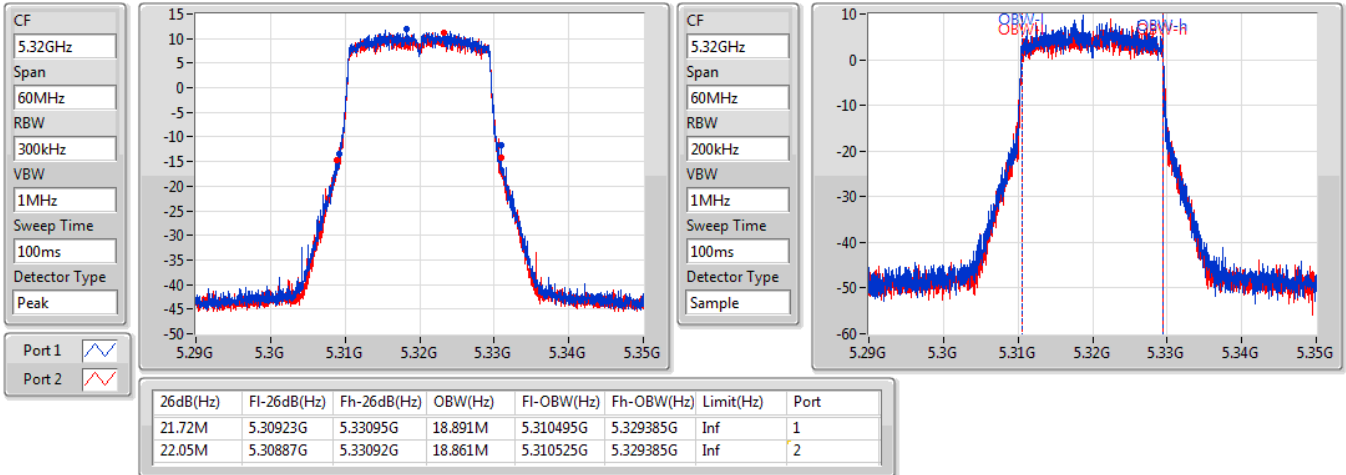

802.11ax HEW20-BF_Nss1,(MCS0)_2TX
EBW
5300MHz

06/08/2019

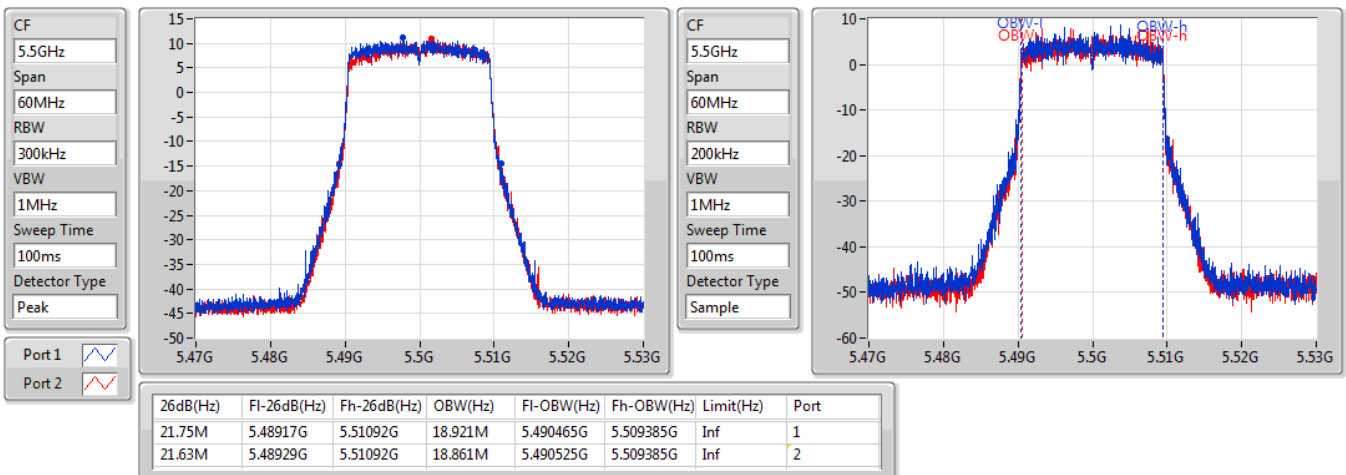


802.11ax HEW20-BF_Nss1,(MCS0)_2TX
EBW
5320MHz

06/08/2019

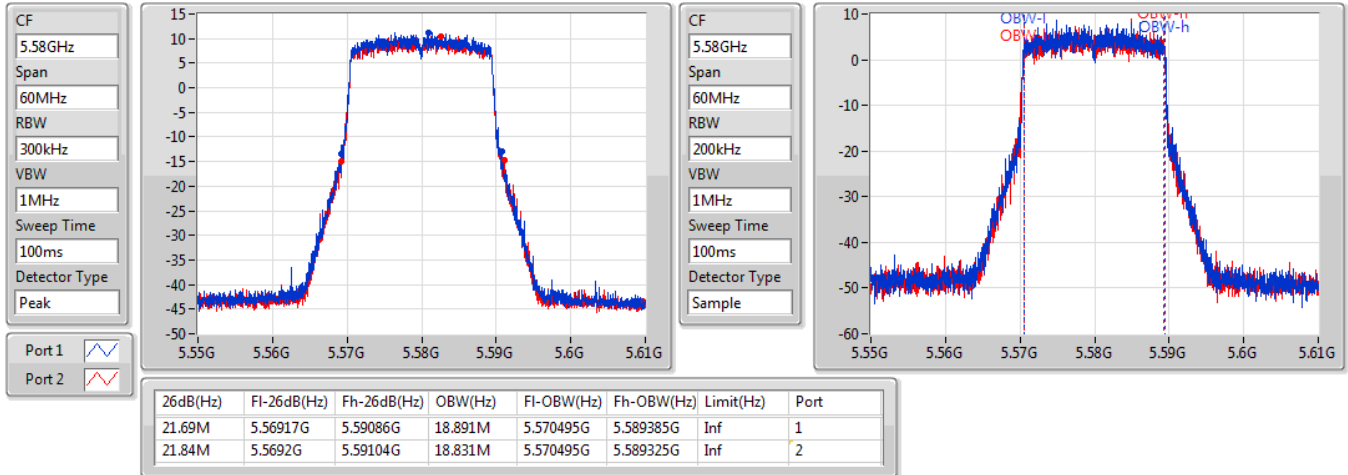

802.11ax HEW20-BF_Nss1,(MCS0)_2TX
EBW
5500MHz

06/08/2019

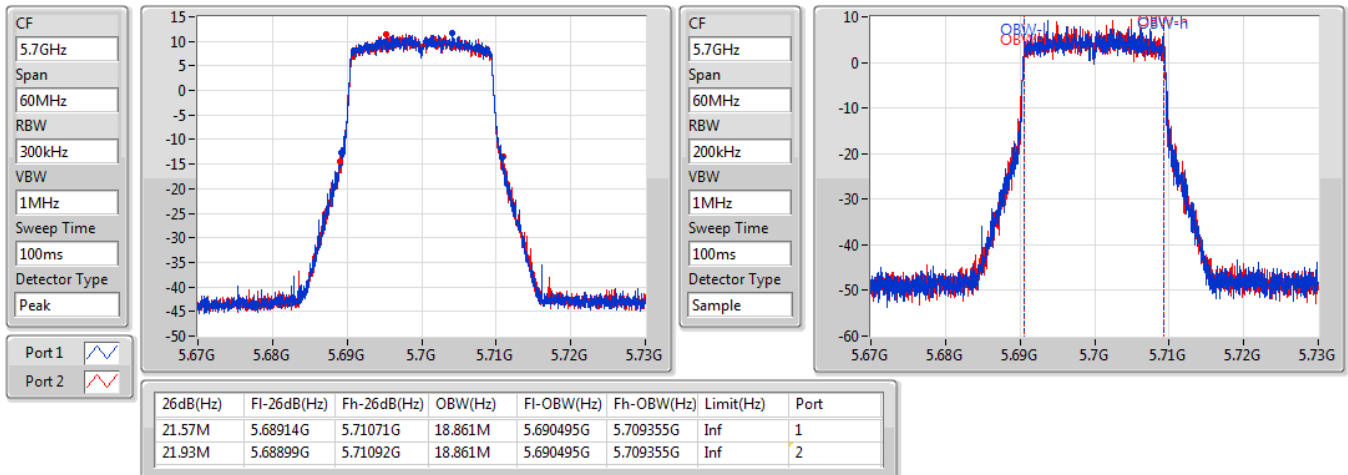


802.11ax HEW20-BF_Nss1,(MCS0)_2TX
EBW
5580MHz

06/08/2019

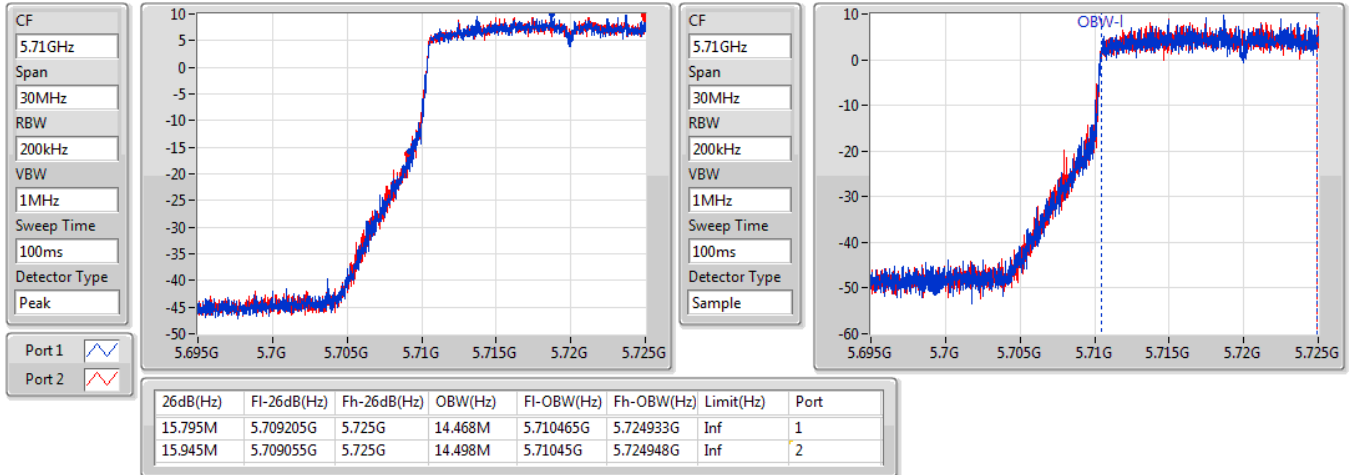

802.11ax HEW20-BF_Nss1,(MCS0)_2TX
EBW
5700MHz

06/08/2019

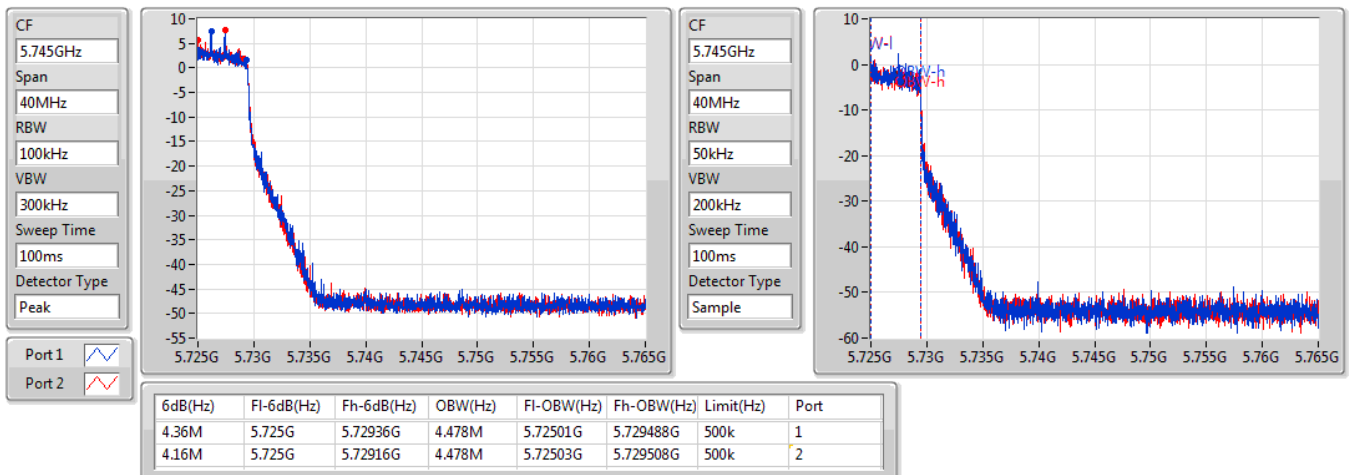


802.11ax HEW20-BF_Nss1,(MCS0)_2TX
EBW
5720MHz Straddle 5.47-5.725GHz

06/08/2019

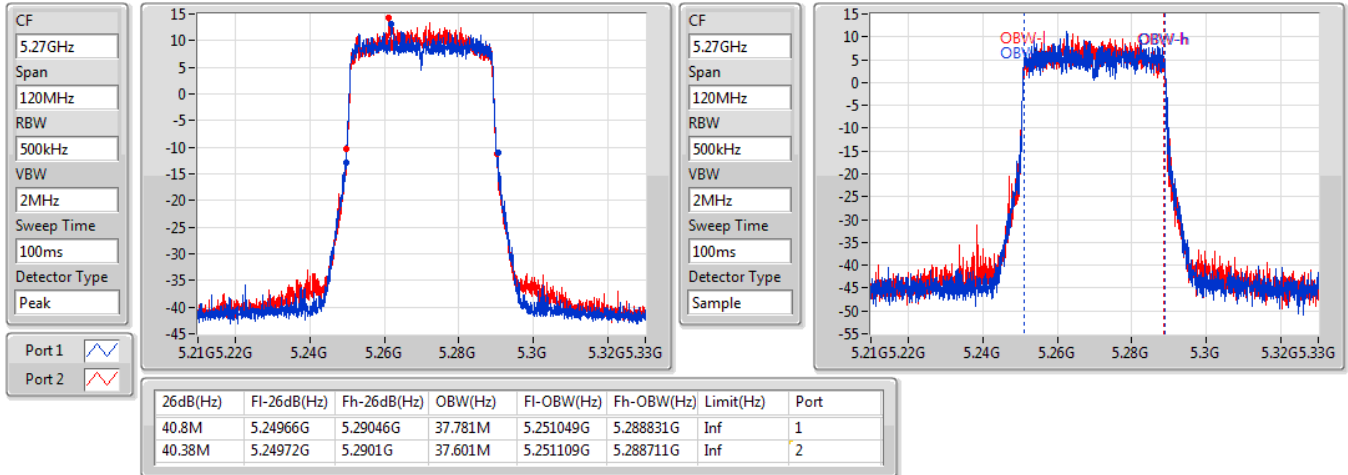

802.11ax HEW20-BF_Nss1,(MCS0)_2TX
EBW
5720MHz Straddle 5.725-5.85GHz

06/08/2019

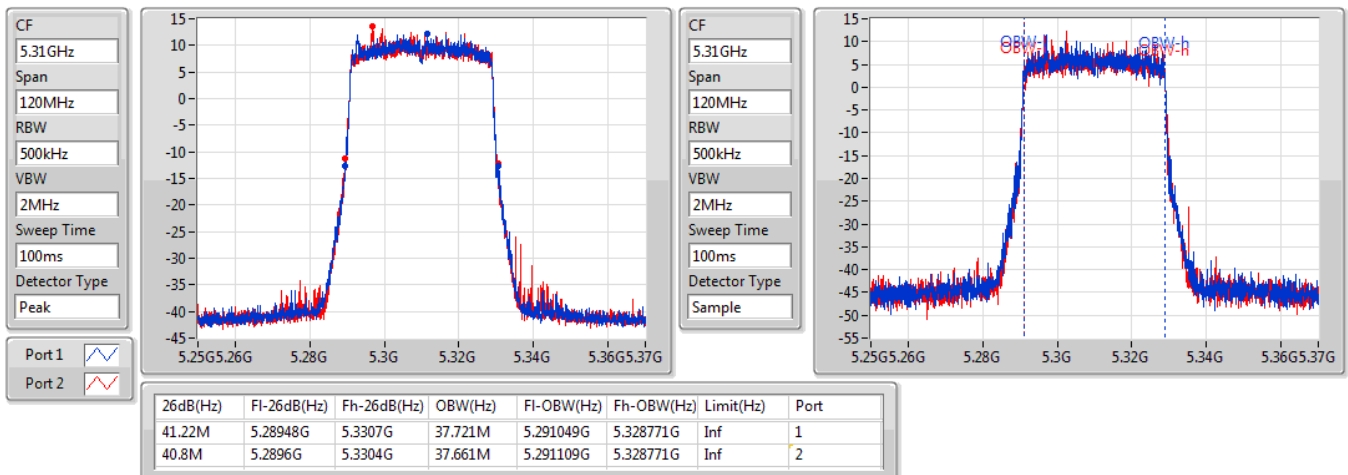


802.11ax HEW40-BF_Nss1,(MCS0)_2TX
EBW
5270MHz

06/08/2019

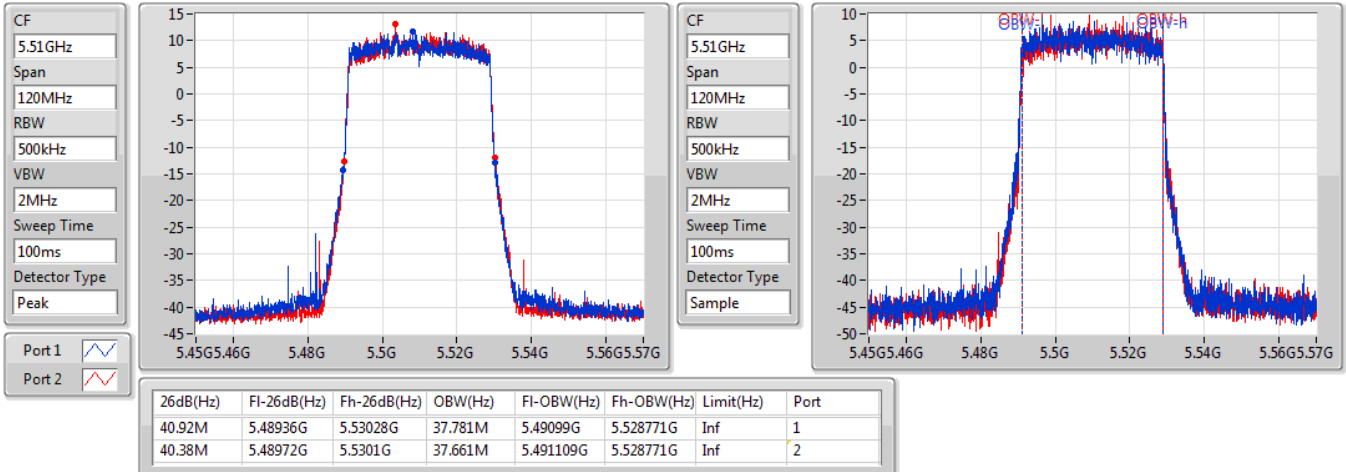

802.11ax HEW40-BF_Nss1,(MCS0)_2TX
EBW
5310MHz

06/08/2019

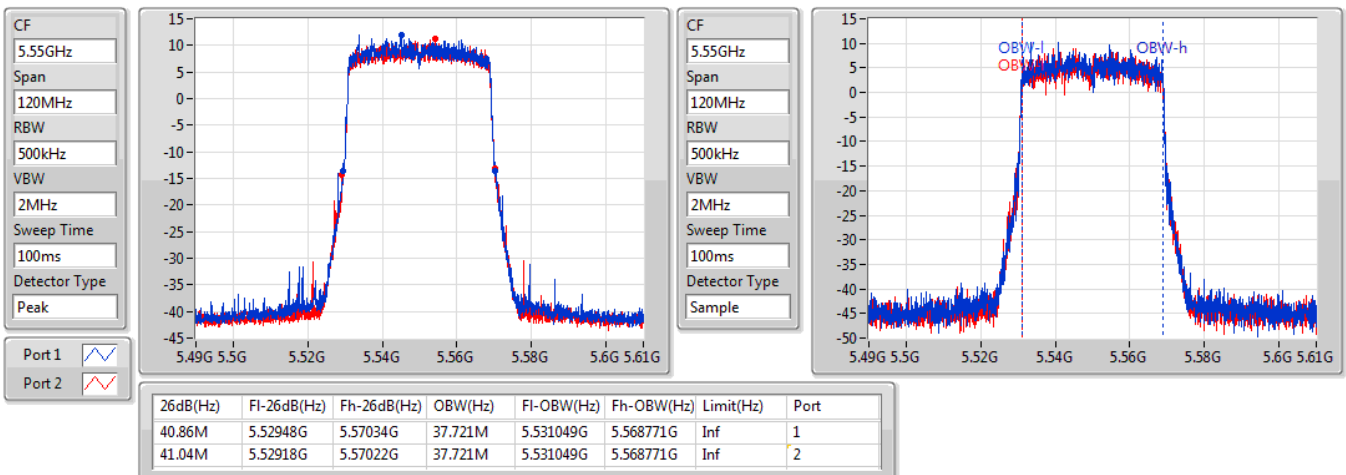


802.11ax HEW40-BF_Nss1,(MCS0)_2TX
EBW
5510MHz

06/08/2019

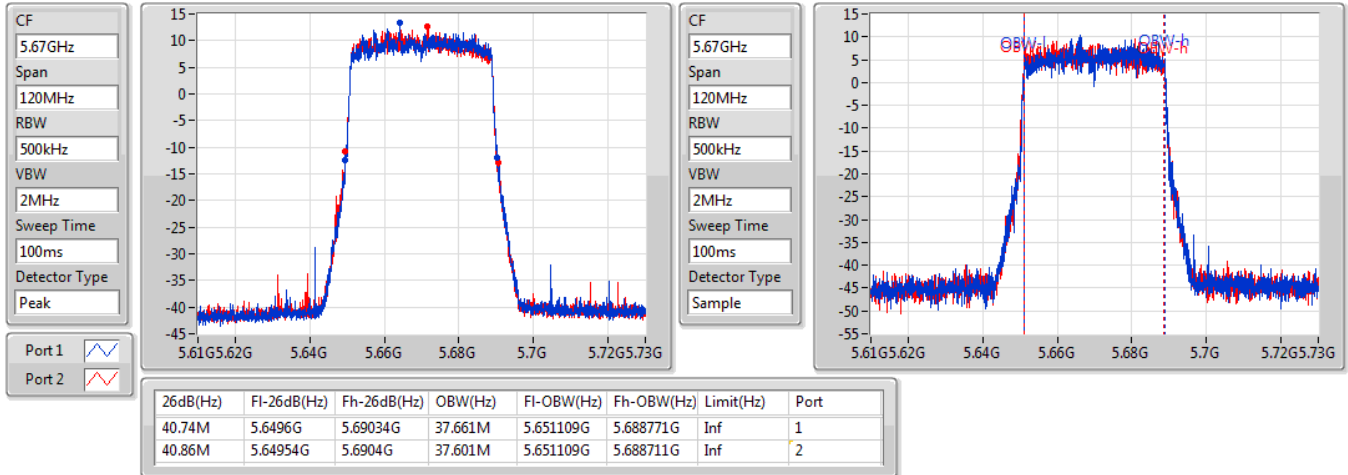

802.11ax HEW40-BF_Nss1,(MCS0)_2TX
EBW
5550MHz

06/08/2019

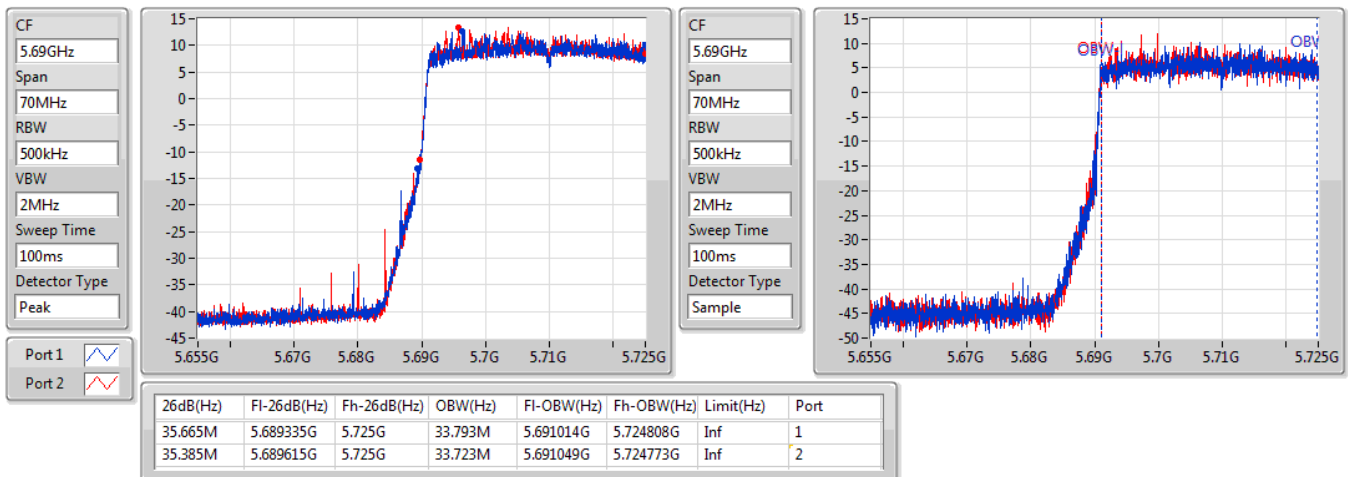


802.11ax HEW40-BF_Nss1,(MCS0)_2TX
EBW
5670MHz

06/08/2019

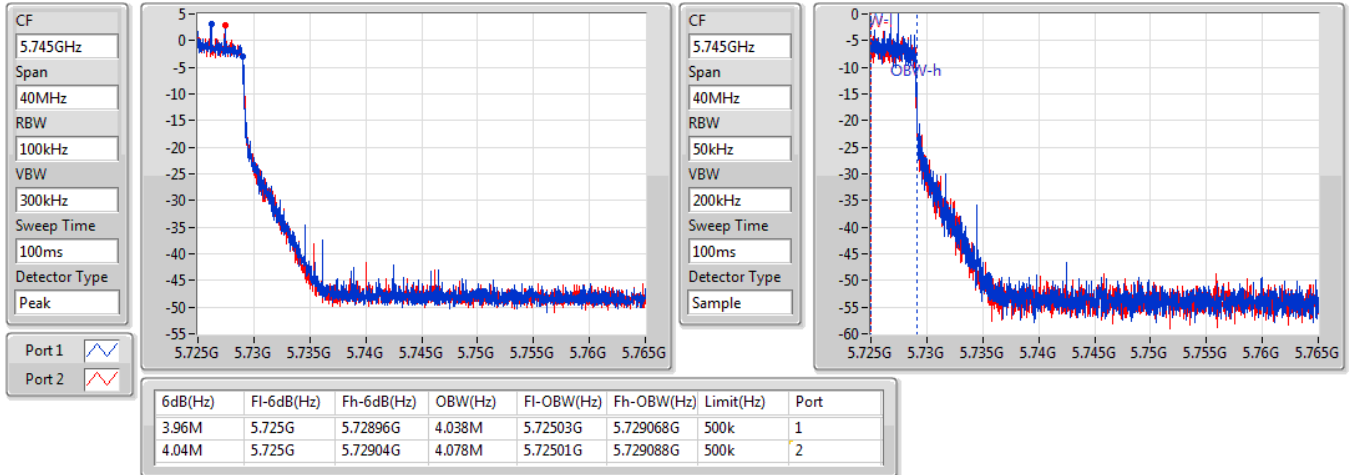

802.11ax HEW40-BF_Nss1,(MCS0)_2TX
EBW
5710MHz Straddle 5.47-5.725GHz

06/08/2019

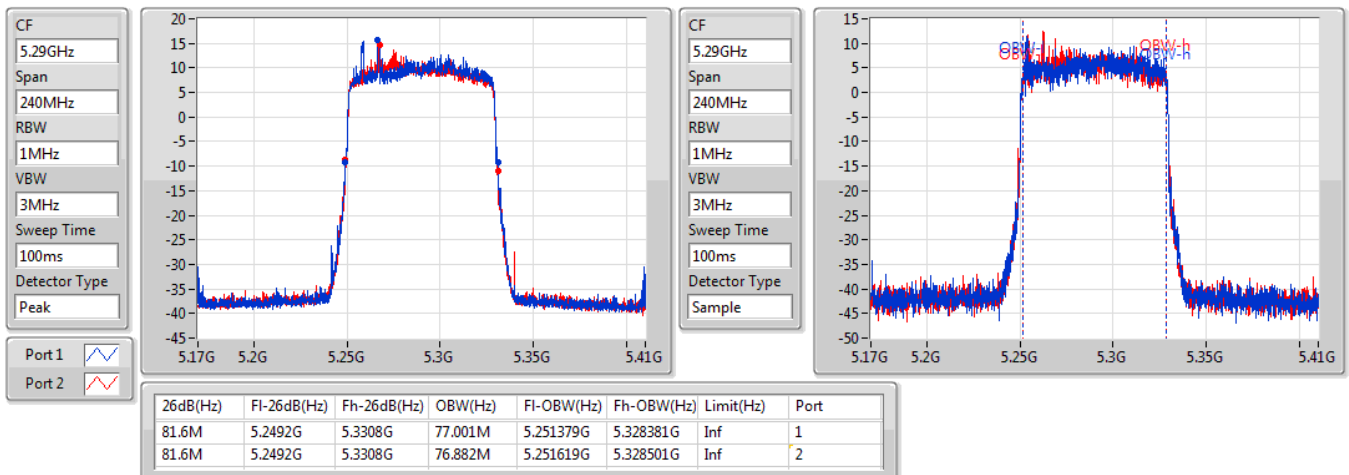


802.11ax HEW40-BF_Nss1,(MCS0)_2TX
EBW
5710MHz Straddle 5.725-5.85GHz

06/08/2019


802.11ax HEW80-BF_Nss1,(MCS0)_2TX
EBW
5290MHz

06/08/2019

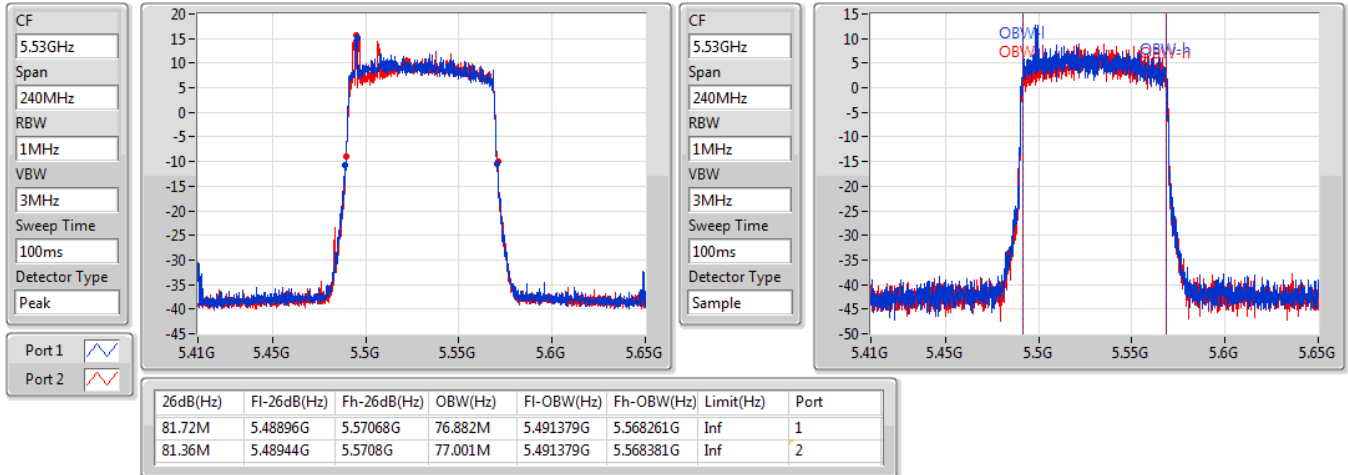


802.11ax HEW80-BF_Nss1,(MCS0)_2TX

EBW

5530MHz

06/08/2019

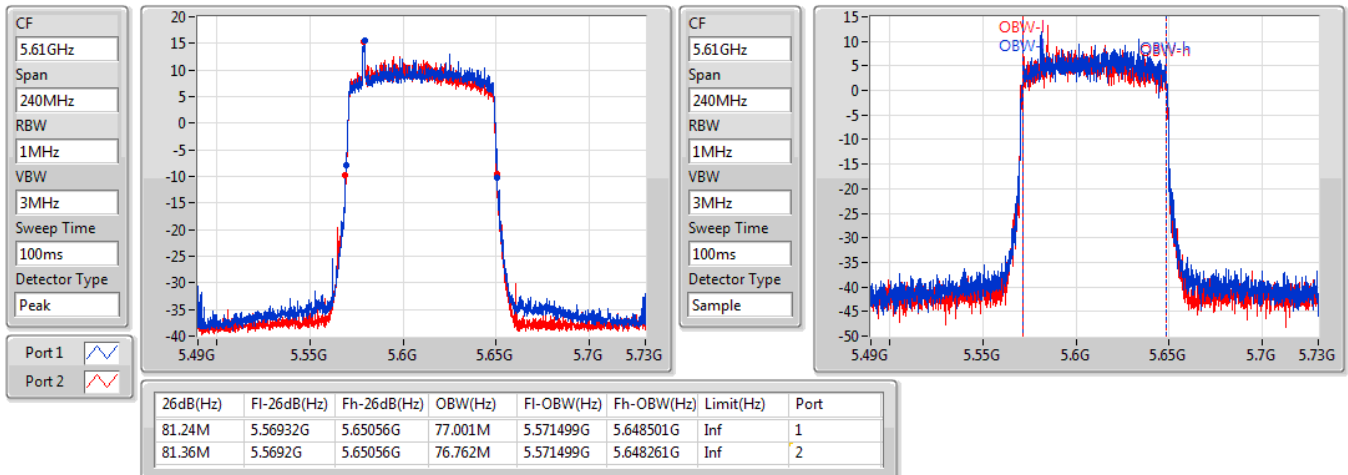


802.11ax HEW80-BF_Nss1,(MCS0)_2TX

EBW

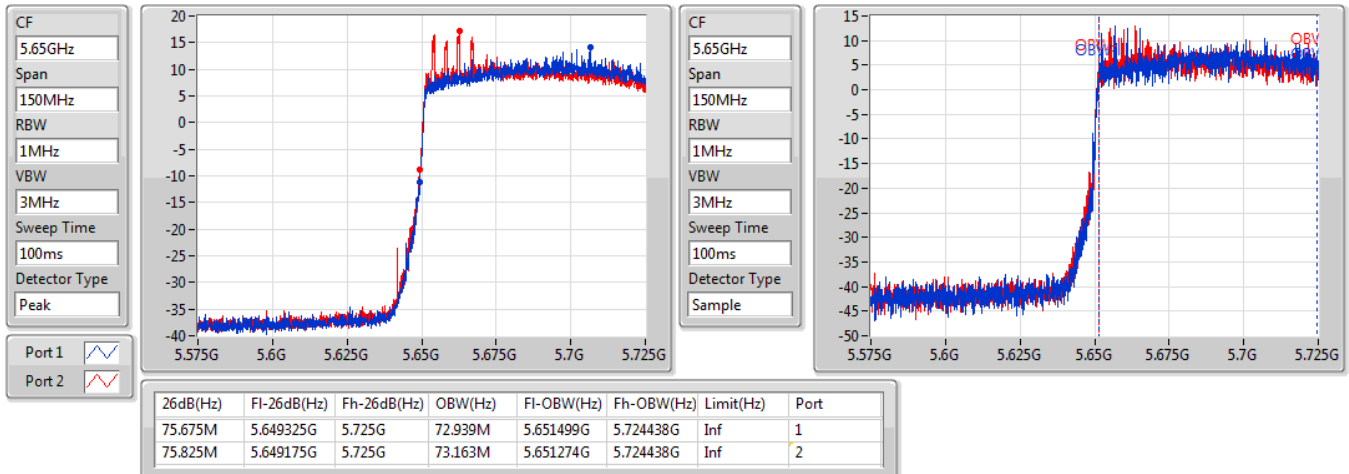
5610MHz

06/08/2019

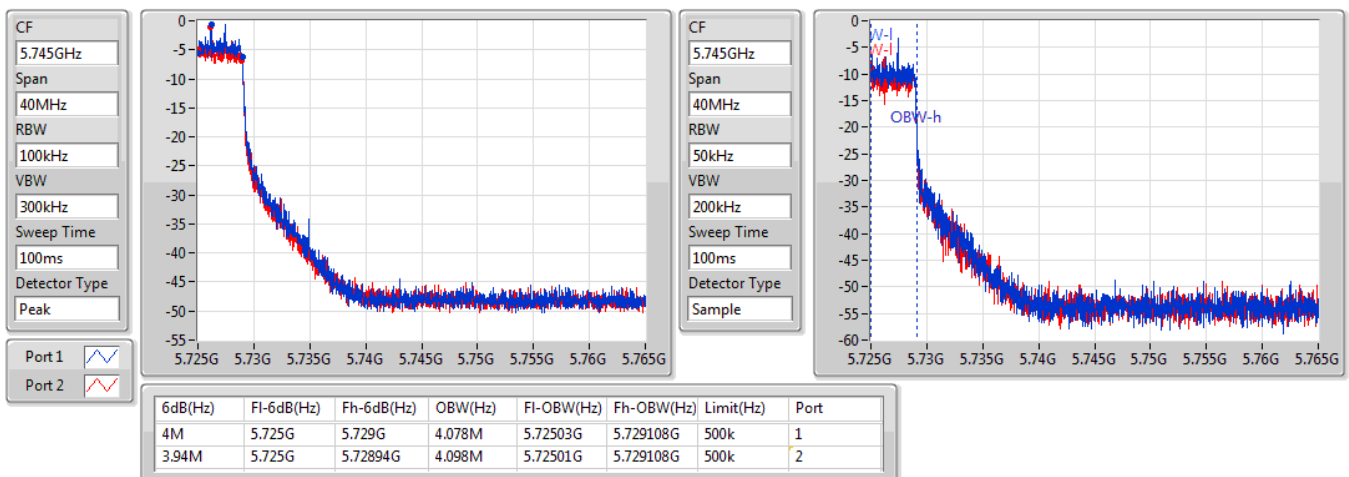


802.11ax HEW80-BF_Nss1,(MCS0)_2TX
EBW
5690MHz Straddle 5.47-5.725GHz

06/08/2019


802.11ax HEW80-BF_Nss1,(MCS0)_2TX
EBW
5690MHz Straddle 5.725-5.85GHz

06/08/2019



**Summary**

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.25-5.35GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	20.76M	16.432M	16M4D1D	20.49M	16.372M
802.11ax HEW20_Nss1,(MCS0)_4TX	22.17M	18.951M	19M0D1D	21.63M	18.891M
802.11ax HEW40_Nss1,(MCS0)_4TX	41.46M	37.721M	37M7D1D	40.98M	37.661M
802.11ax HEW80_Nss1,(MCS0)_4TX	82.8M	77.001M	77M0D1D	81.96M	76.762M
5.47-5.725GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	20.73M	16.462M	16M5D1D	15.18M	13.223M
802.11ax HEW20_Nss1,(MCS0)_4TX	22.08M	18.951M	19M0D1D	15.93M	14.483M
802.11ax HEW40_Nss1,(MCS0)_4TX	41.4M	37.841M	37M8D1D	35.525M	33.758M
802.11ax HEW80_Nss1,(MCS0)_4TX	82.68M	77.241M	77M2D1D	76.125M	73.013M
5.725-5.85GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	3.2M	3.558M	3M56D1D	3.08M	3.498M
802.11ax HEW20_Nss1,(MCS0)_4TX	4.5M	4.498M	4M50D1D	4.36M	4.478M
802.11ax HEW40_Nss1,(MCS0)_4TX	4.04M	4.058M	4M06D1D	3.9M	4.018M
802.11ax HEW80_Nss1,(MCS0)_4TX	4M	4.178M	4M18D1D	3.9M	4.078M

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

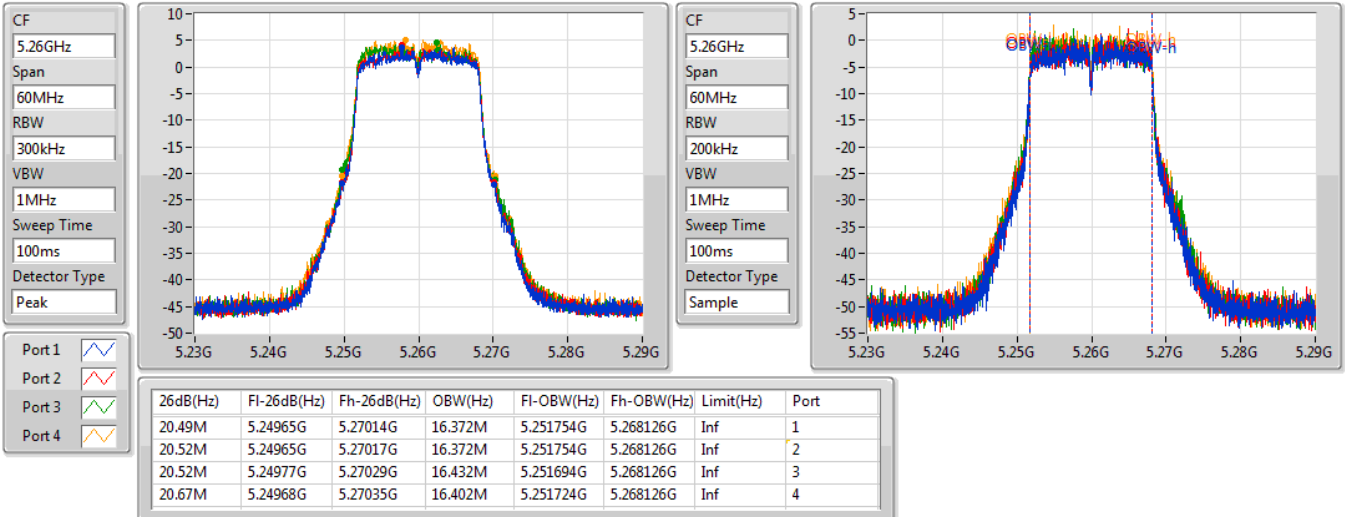
Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)	Port 3-N dB (Hz)	Port 3-OBW (Hz)	Port 4-N dB (Hz)	Port 4-OBW (Hz)
802.11a_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-	-	-
5260MHz	Pass	Inf	20.49M	16.372M	20.52M	16.372M	20.52M	16.432M	20.67M	16.402M
5300MHz	Pass	Inf	20.55M	16.372M	20.64M	16.372M	20.52M	16.432M	20.67M	16.402M
5320MHz	Pass	Inf	20.52M	16.372M	20.55M	16.372M	20.76M	16.402M	20.58M	16.372M
5500MHz	Pass	Inf	20.49M	16.372M	20.61M	16.402M	20.7M	16.402M	20.73M	16.402M
5580MHz	Pass	Inf	20.64M	16.462M	20.67M	16.432M	19.86M	16.372M	20.55M	16.372M
5700MHz	Pass	Inf	20.55M	16.402M	20.73M	16.402M	20.7M	16.432M	20.52M	16.342M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	15.33M	13.223M	15.3M	13.268M	15.24M	13.268M	15.18M	13.238M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	3.2M	3.558M	3.08M	3.518M	3.08M	3.498M	3.08M	3.498M
802.11ax HEW20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5260MHz	Pass	Inf	21.9M	18.891M	22.17M	18.951M	21.72M	18.891M	22.11M	18.921M
5300MHz	Pass	Inf	21.93M	18.891M	21.75M	18.891M	21.63M	18.891M	21.75M	18.891M
5320MHz	Pass	Inf	21.99M	18.921M	22.08M	18.921M	21.69M	18.921M	21.93M	18.891M
5500MHz	Pass	Inf	21.6M	18.921M	21.72M	18.891M	21.84M	18.921M	21.45M	18.921M
5580MHz	Pass	Inf	21.63M	18.891M	21.66M	18.831M	21.84M	18.921M	22.08M	18.921M
5700MHz	Pass	Inf	21.36M	18.921M	21.99M	18.921M	21.72M	18.951M	21.84M	18.921M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	15.93M	14.498M	16.11M	14.483M	16.245M	14.498M	15.945M	14.513M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	4.38M	4.498M	4.36M	4.498M	4.5M	4.498M	4.38M	4.478M
802.11ax HEW40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5270MHz	Pass	Inf	41.28M	37.661M	41.04M	37.661M	41.46M	37.721M	41.46M	37.661M
5310MHz	Pass	Inf	40.98M	37.661M	41.28M	37.661M	40.98M	37.721M	41.46M	37.721M
5510MHz	Pass	Inf	41.28M	37.601M	40.8M	37.601M	40.98M	37.601M	41.34M	37.721M
5550MHz	Pass	Inf	41.4M	37.721M	40.74M	37.601M	41.16M	37.781M	41.28M	37.841M
5670MHz	Pass	Inf	41.1M	37.781M	41.28M	37.601M	40.74M	37.661M	40.8M	37.781M
5710MHz Straddle 5.47-5.725GHz	Pass	Inf	35.525M	33.793M	35.56M	33.793M	35.595M	33.828M	35.665M	33.758M
5710MHz Straddle 5.725-5.85GHz	Pass	500k	3.9M	4.038M	4.02M	4.038M	4.04M	4.058M	4.04M	4.018M
802.11ax HEW80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5290MHz	Pass	Inf	82.32M	77.001M	82.08M	76.762M	82.8M	76.762M	81.96M	76.882M
5530MHz	Pass	Inf	82.44M	76.882M	82.2M	76.882M	82.68M	77.241M	82.32M	77.121M
5610MHz	Pass	Inf	82.56M	77.121M	82.68M	77.001M	81.96M	77.001M	82.44M	77.001M
5690MHz Straddle 5.47-5.725GHz	Pass	Inf	76.125M	73.238M	76.275M	73.013M	76.2M	73.238M	76.2M	73.163M
5690MHz Straddle 5.725-5.85GHz	Pass	500k	3.94M	4.078M	3.9M	4.138M	3.92M	4.178M	4M	4.078M

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

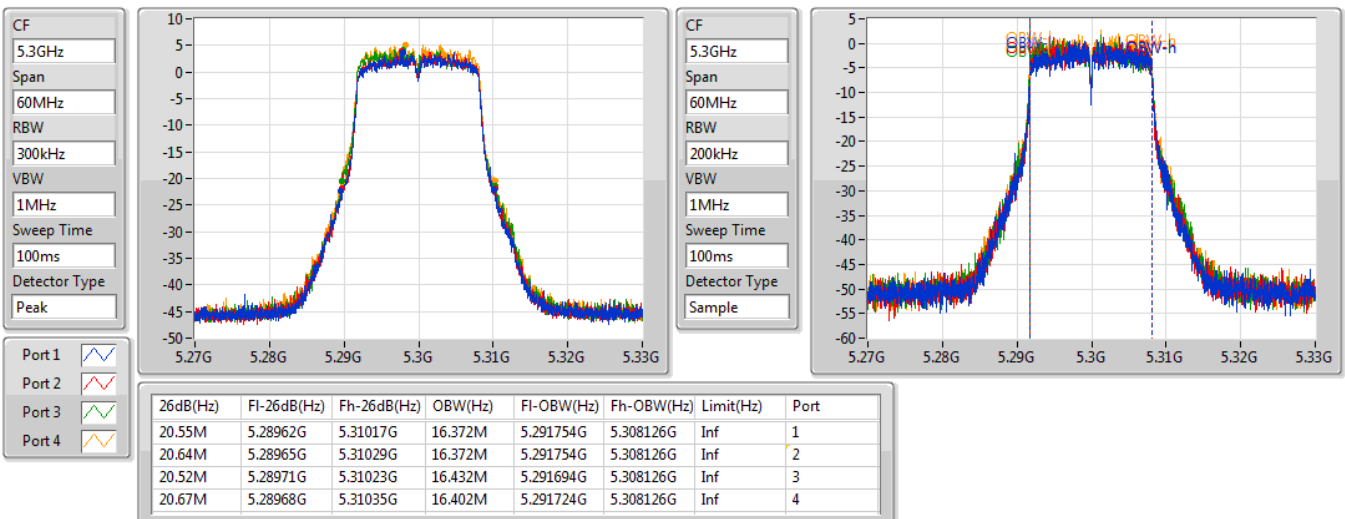
Port X-OBW = Port X 99% occupied bandwidth;

802.11a_Nss1,(6Mbps)_4TX
EBW
5260MHz

31/07/2019

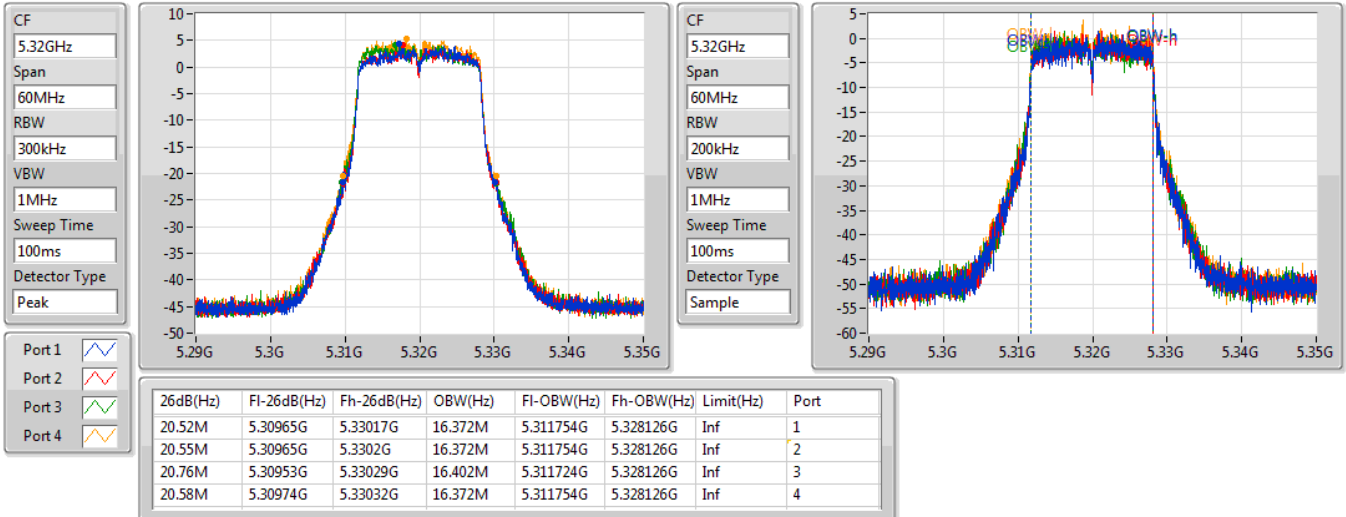

802.11a_Nss1,(6Mbps)_4TX
EBW
5300MHz

31/07/2019

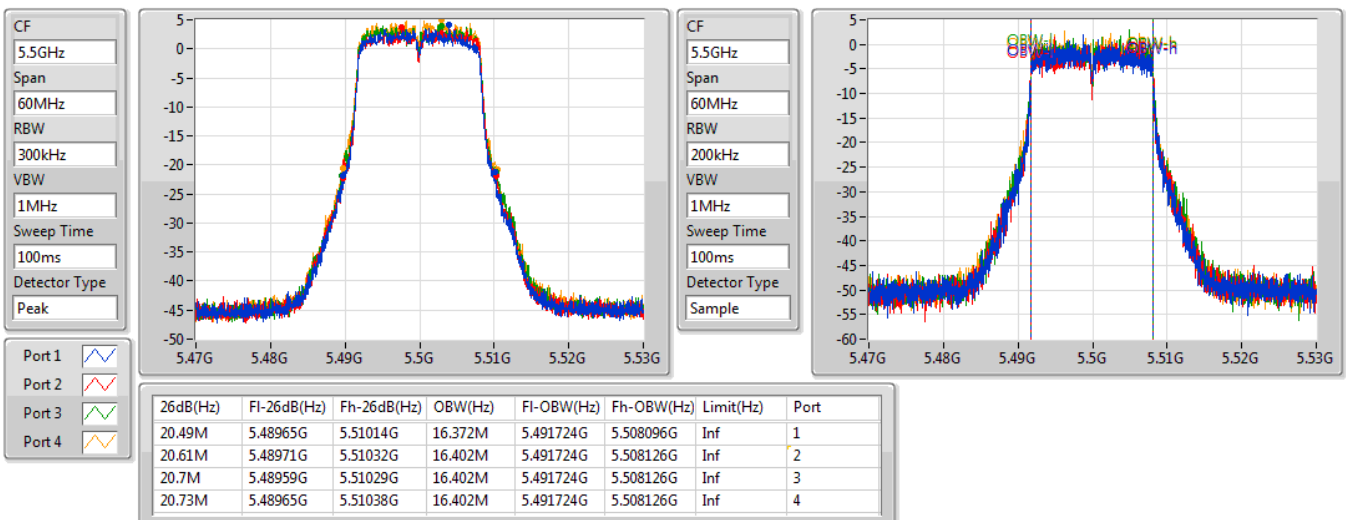


802.11a_Nss1,(6Mbps)_4TX
EBW
5320MHz

31/07/2019

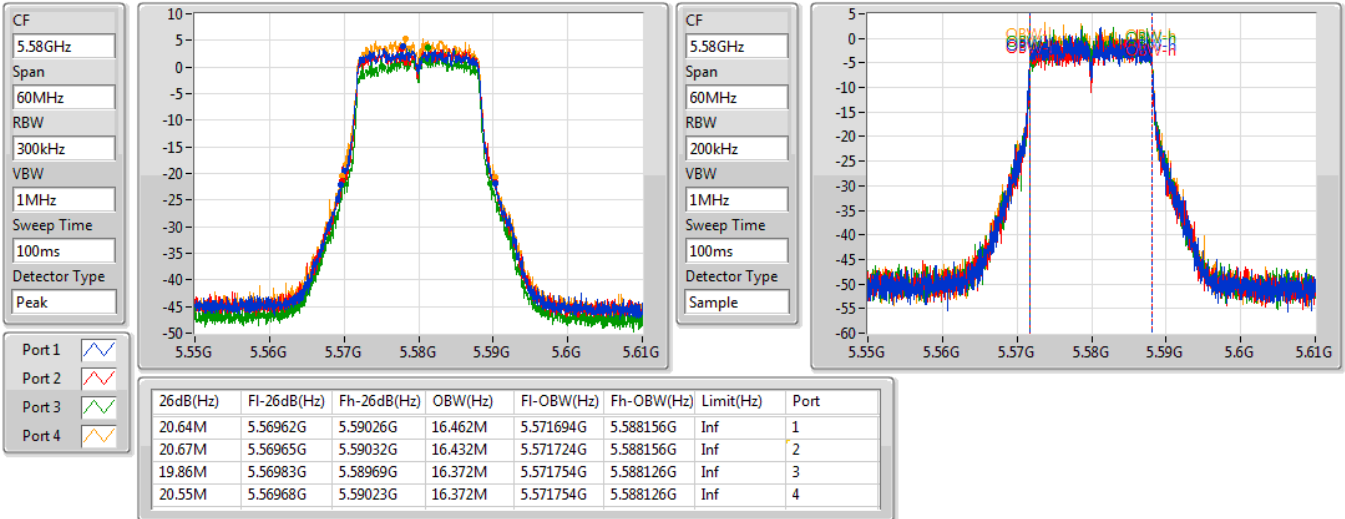

802.11a_Nss1,(6Mbps)_4TX
EBW
5500MHz

31/07/2019

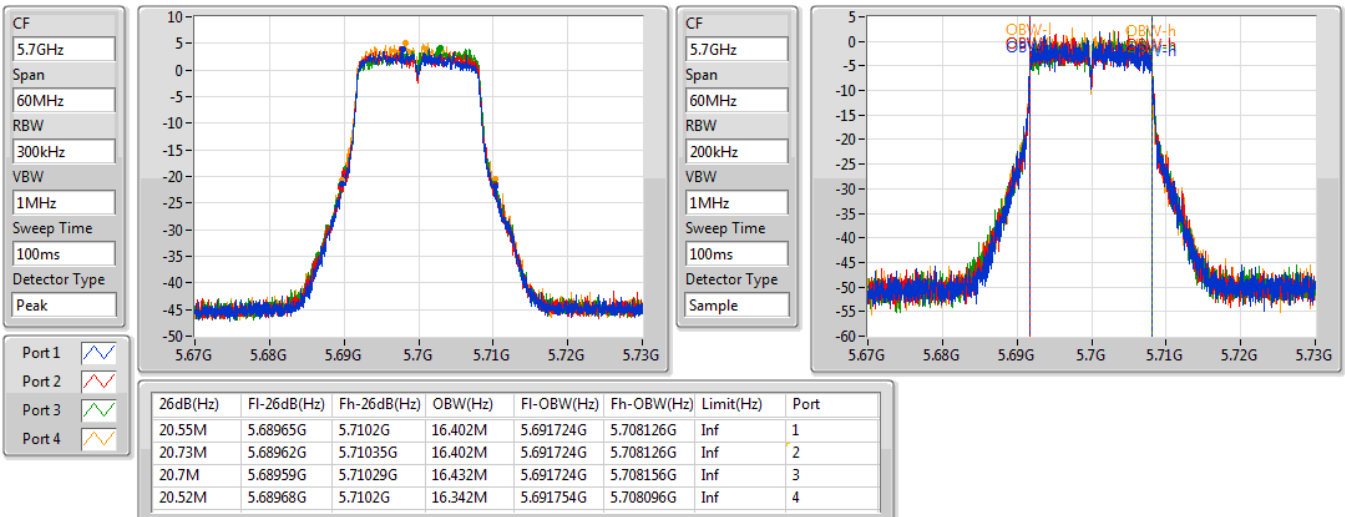


802.11a_Nss1,(6Mbps)_4TX
EBW
5580MHz

31/07/2019

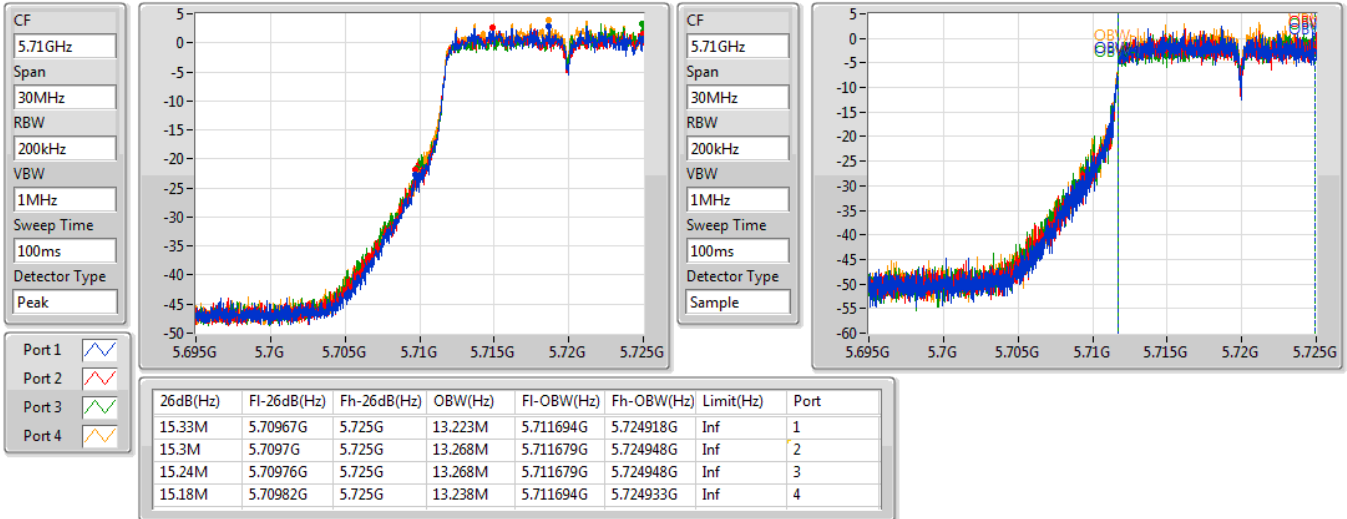

802.11a_Nss1,(6Mbps)_4TX
EBW
5700MHz

31/07/2019

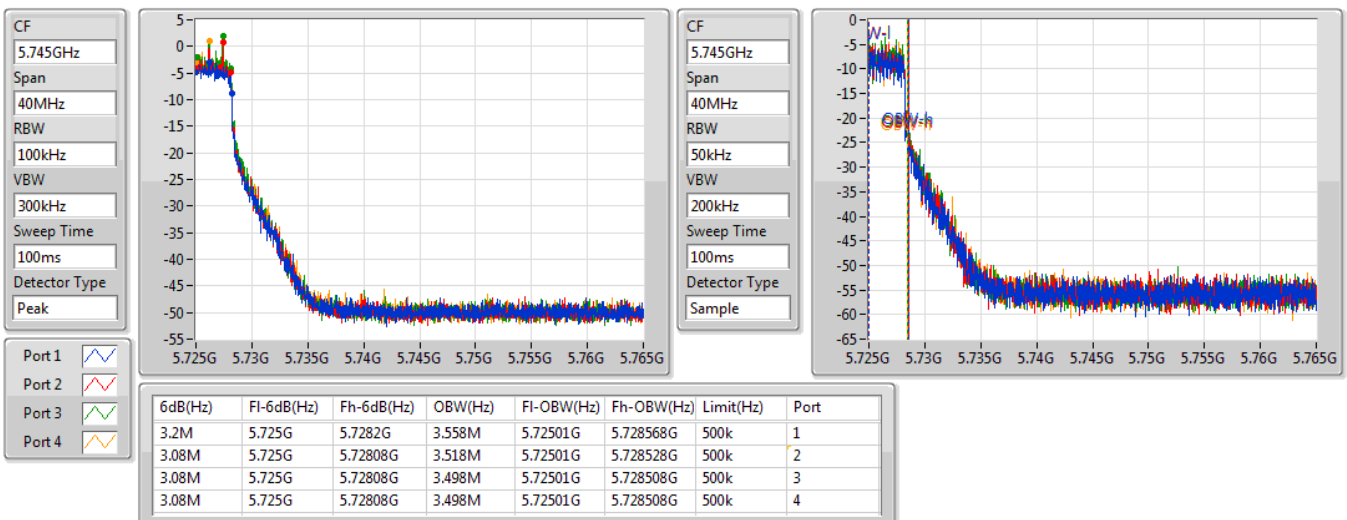


802.11a_Nss1,(6Mbps)_4TX
EBW
5720MHz Straddle 5.47-5.725GHz

31/07/2019

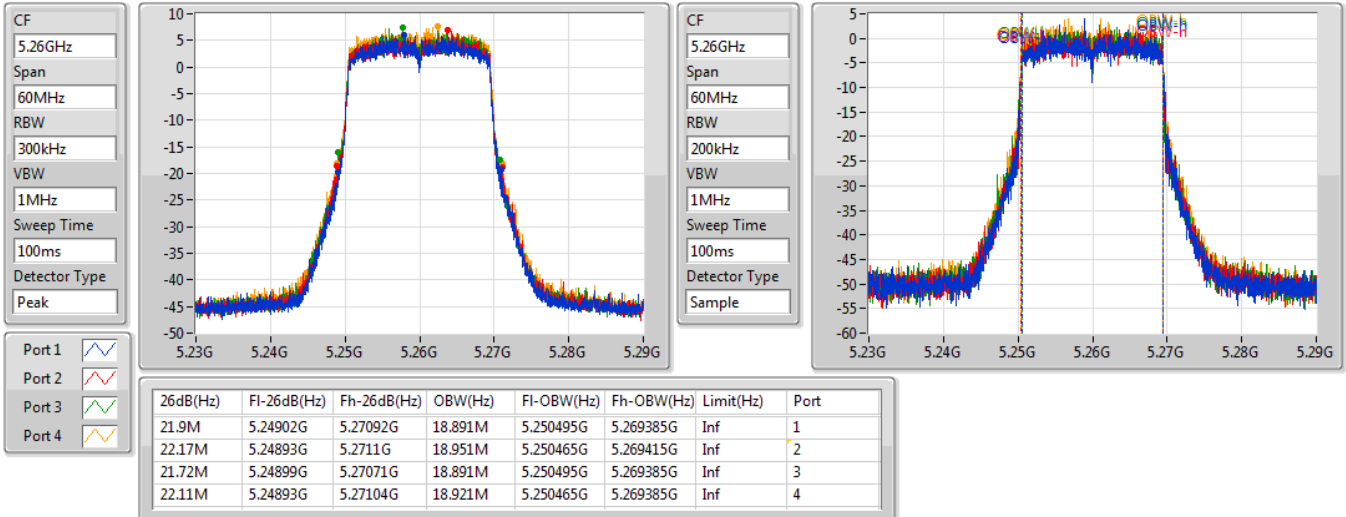

802.11a_Nss1,(6Mbps)_4TX
EBW
5720MHz Straddle 5.725-5.85GHz

31/07/2019

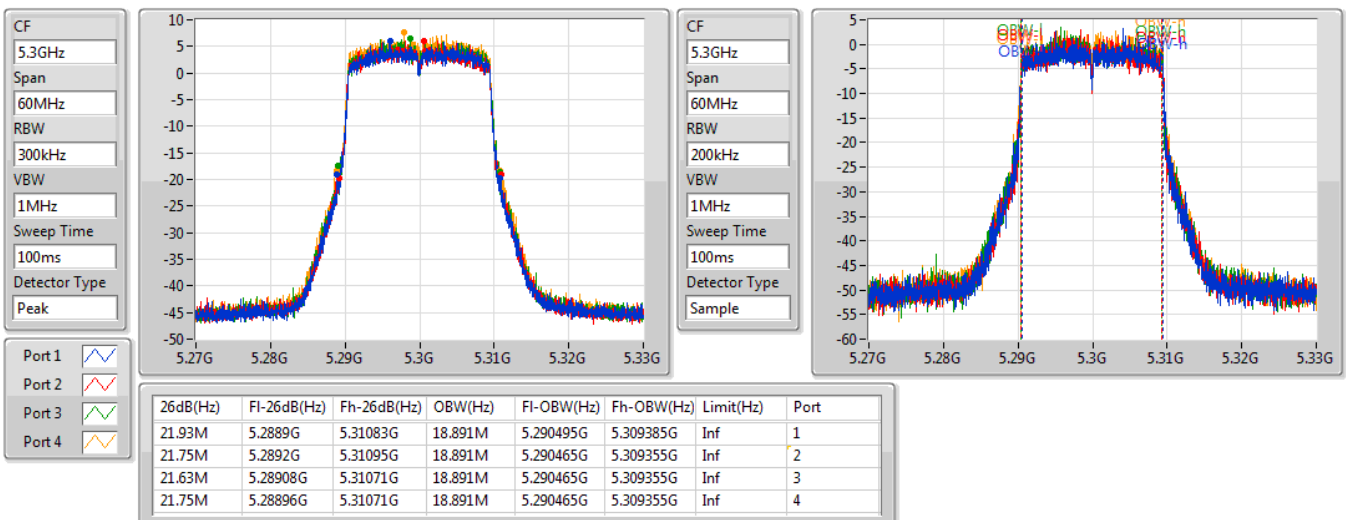


802.11ax HEW20_Nss1,(MCS0)_4TX
EBW
5260MHz

01/08/2019

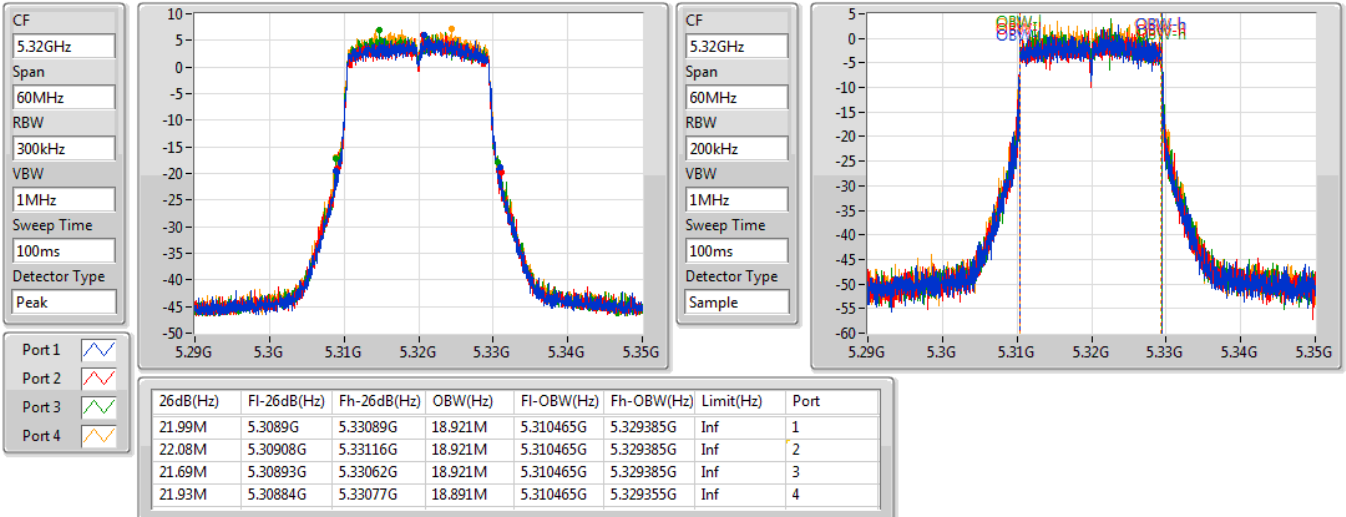

802.11ax HEW20_Nss1,(MCS0)_4TX
EBW
5300MHz

01/08/2019

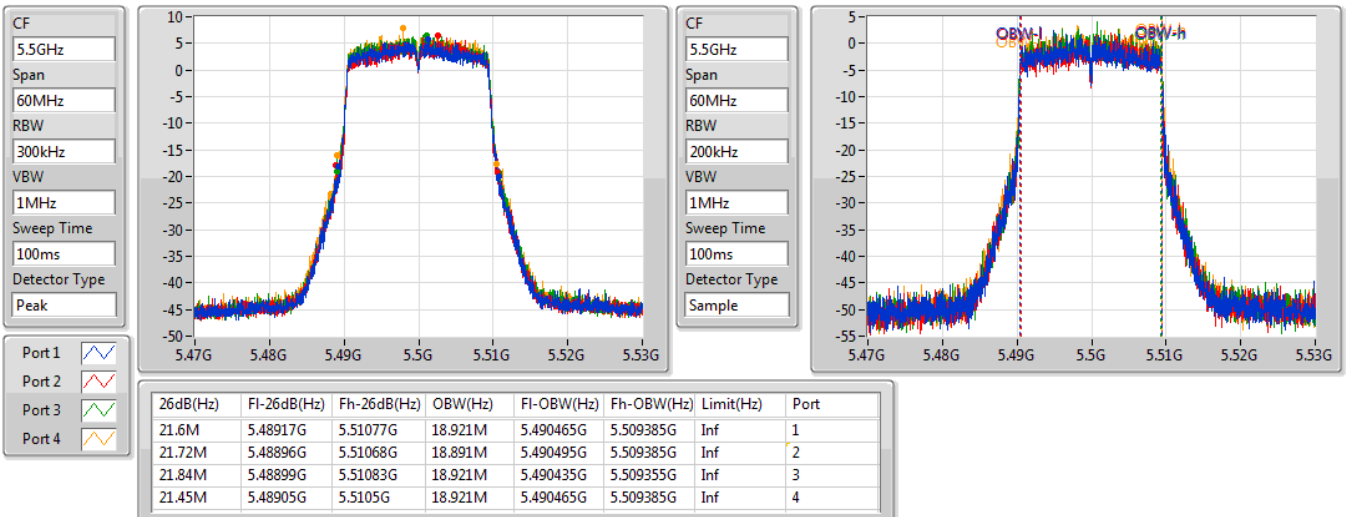


802.11ax HEW20_Nss1,(MCS0)_4TX
EBW
5320MHz

01/08/2019

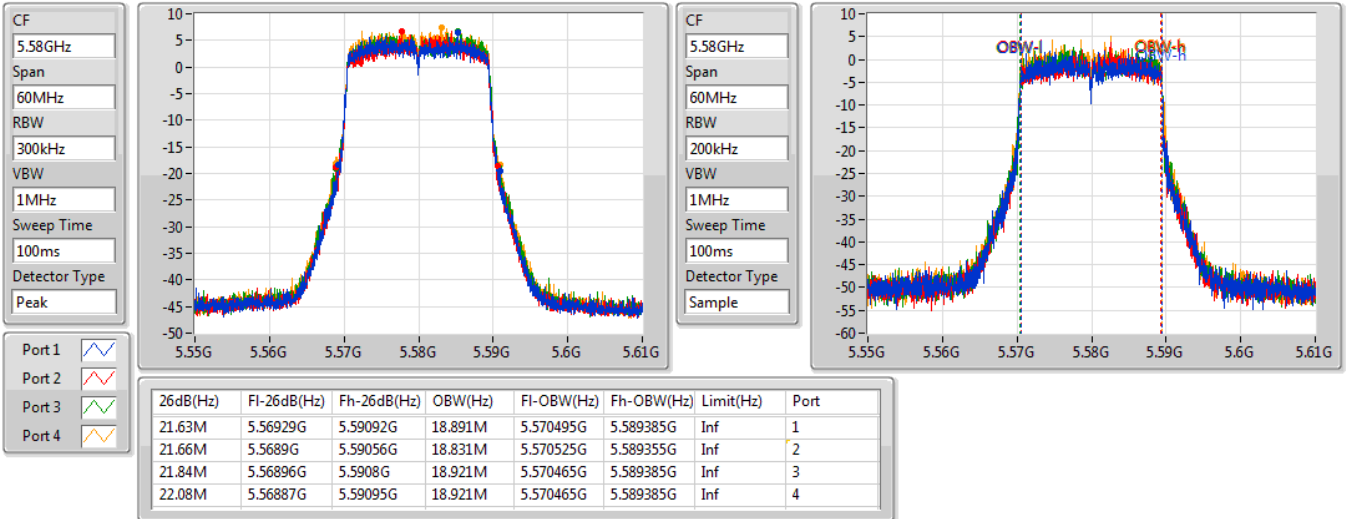

802.11ax HEW20_Nss1,(MCS0)_4TX
EBW
5500MHz

01/08/2019

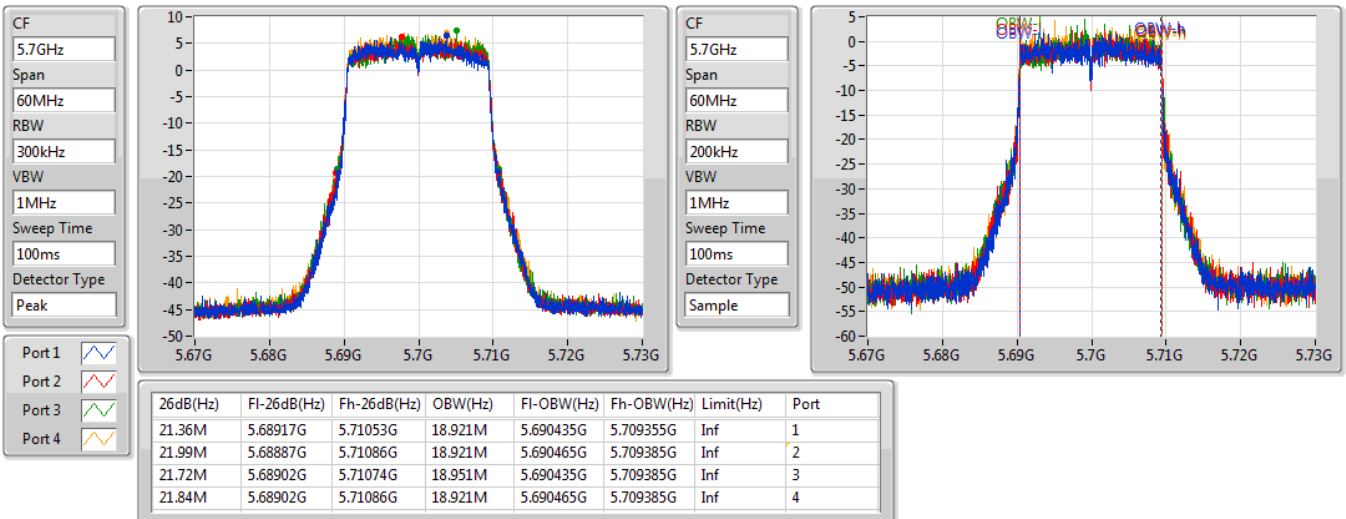


802.11ax HEW20_Nss1,(MCS0)_4TX
EBW
5580MHz

01/08/2019

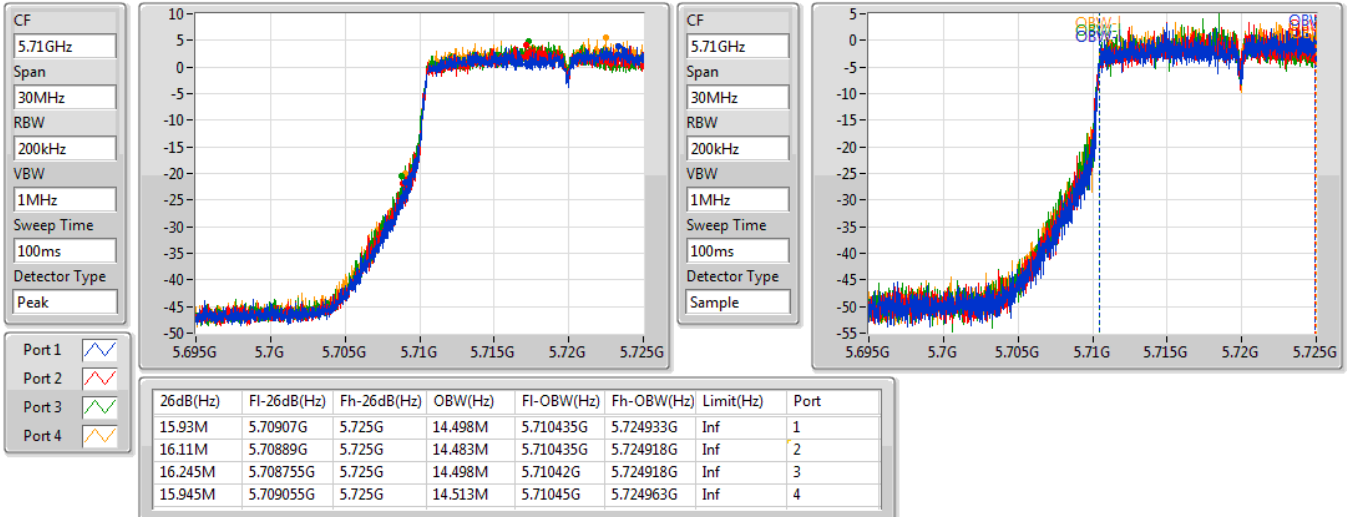

802.11ax HEW20_Nss1,(MCS0)_4TX
EBW
5700MHz

01/08/2019

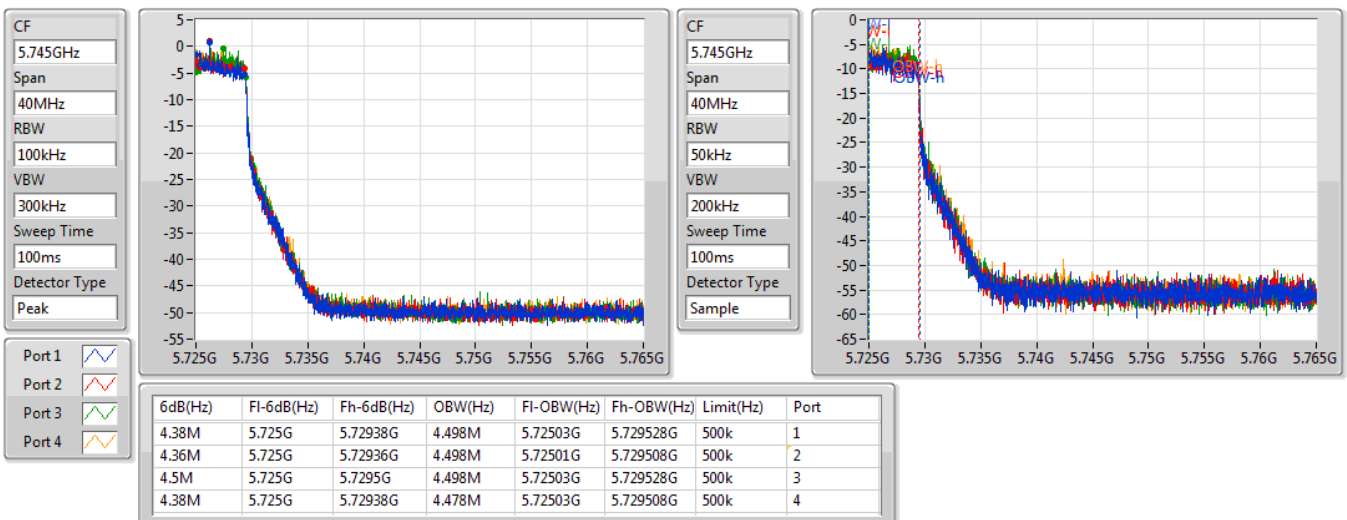


802.11ax HEW20_Nss1,(MCS0)_4TX
EBW
5720MHz Straddle 5.47-5.725GHz

01/08/2019

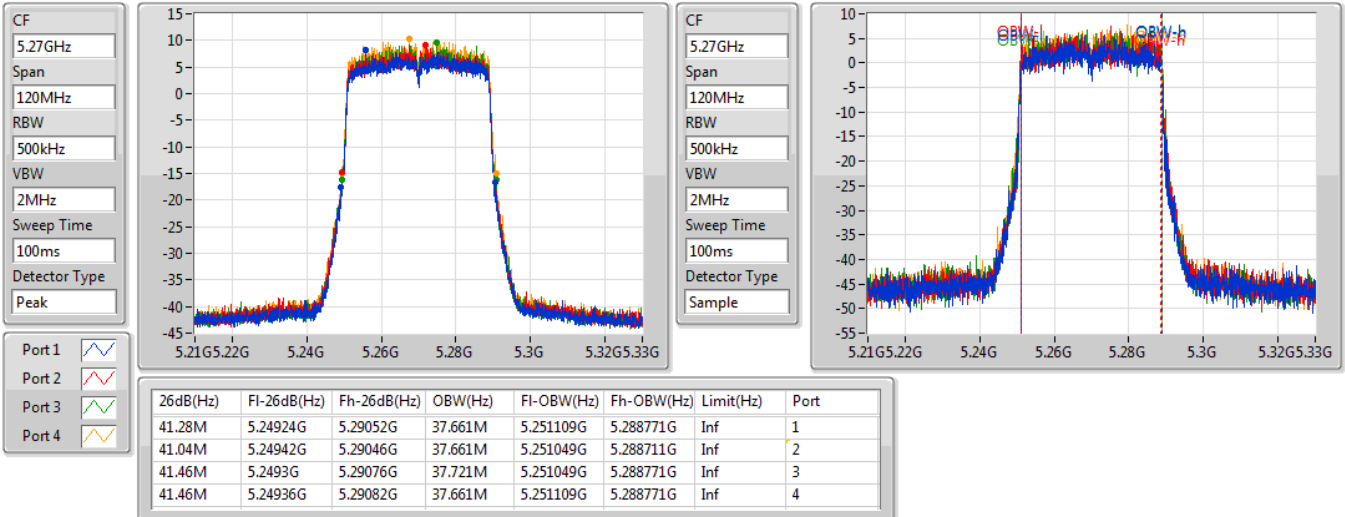

802.11ax HEW20_Nss1,(MCS0)_4TX
EBW
5720MHz Straddle 5.725-5.85GHz

01/08/2019

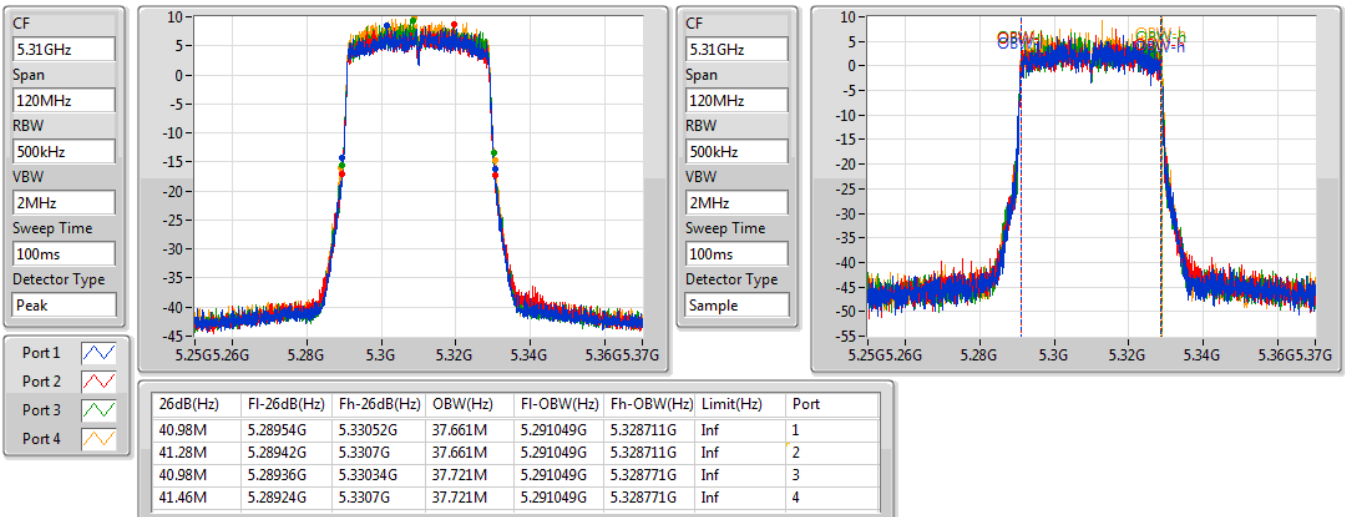


802.11ax HEW40_Nss1,(MCS0)_4TX
EBW
5270MHz

01/08/2019

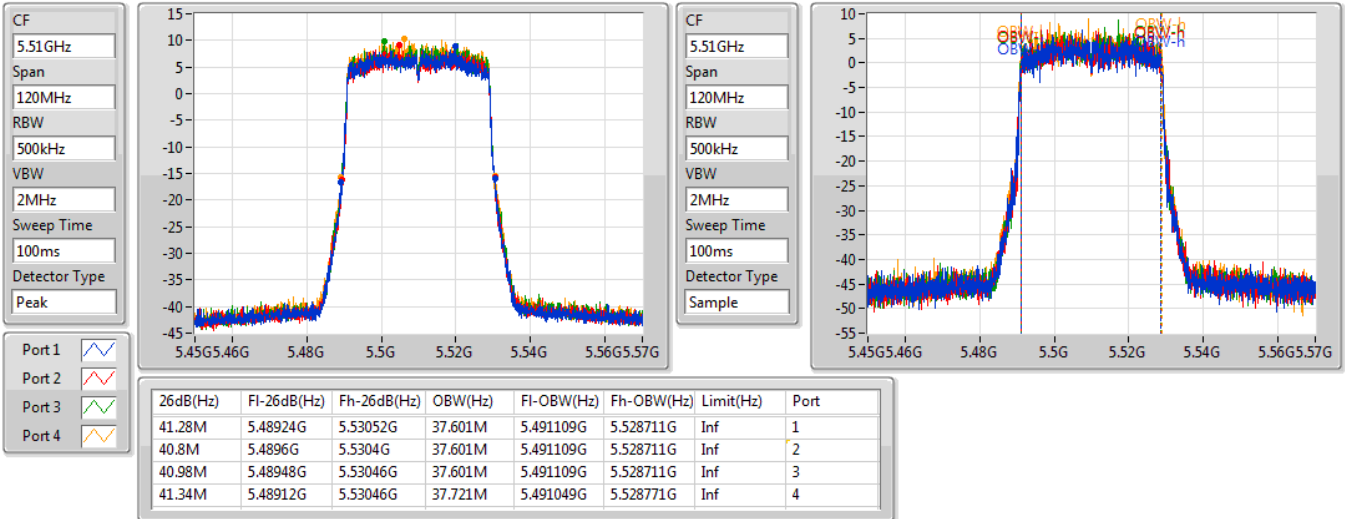

802.11ax HEW40_Nss1,(MCS0)_4TX
EBW
5310MHz

01/08/2019

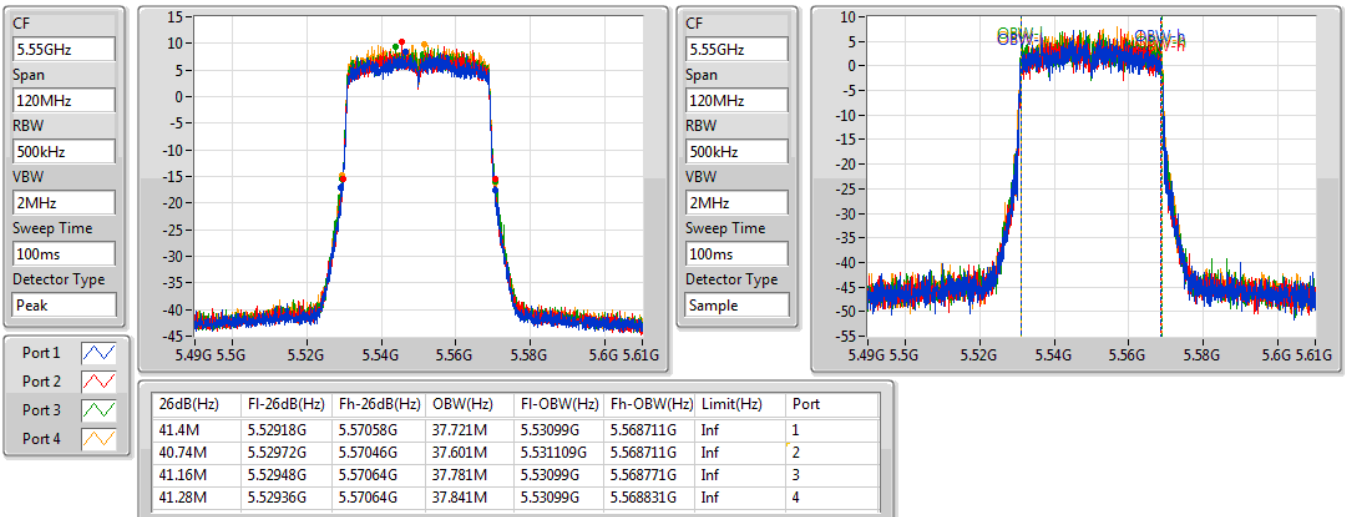


802.11ax HEW40_Nss1,(MCS0)_4TX
EBW
5510MHz

01/08/2019

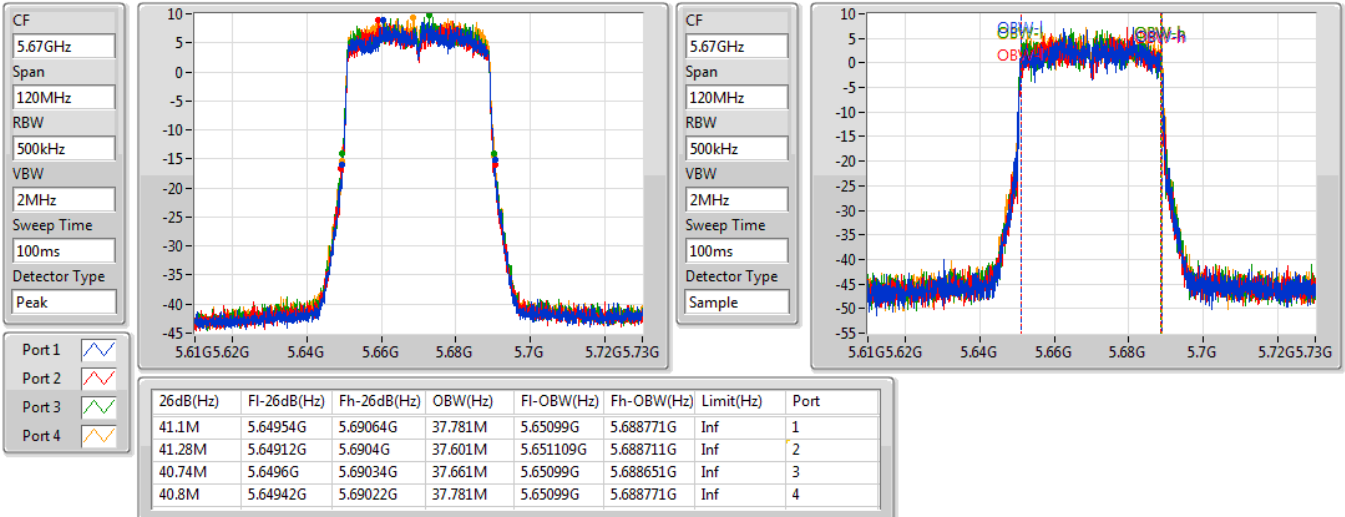

802.11ax HEW40_Nss1,(MCS0)_4TX
EBW
5550MHz

01/08/2019

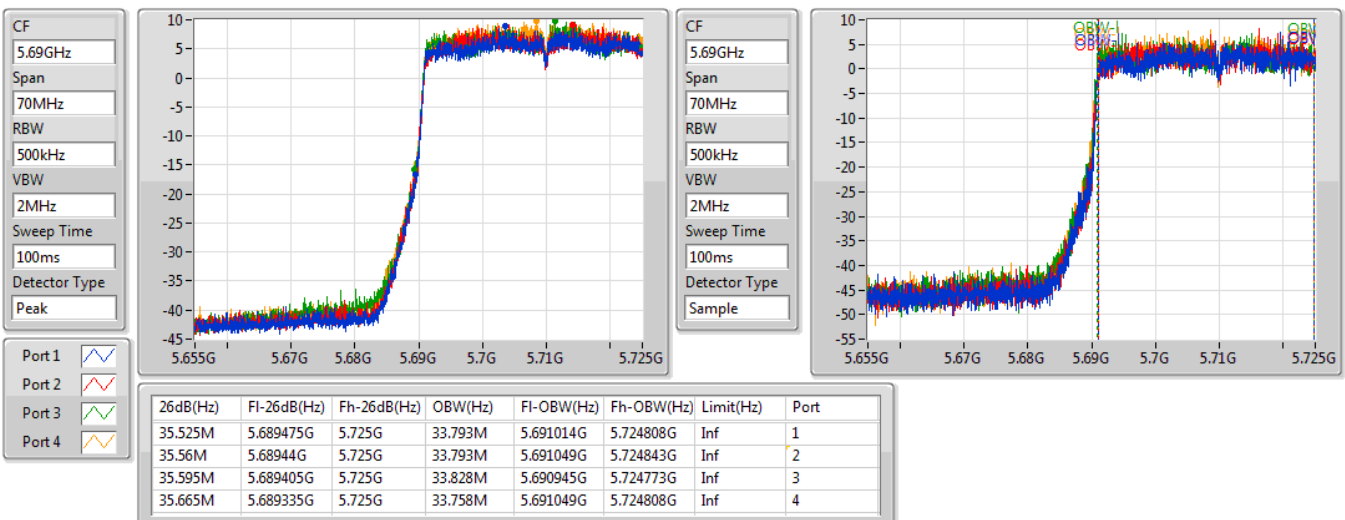


802.11ax HEW40_Nss1,(MCS0)_4TX
EBW
5670MHz

01/08/2019

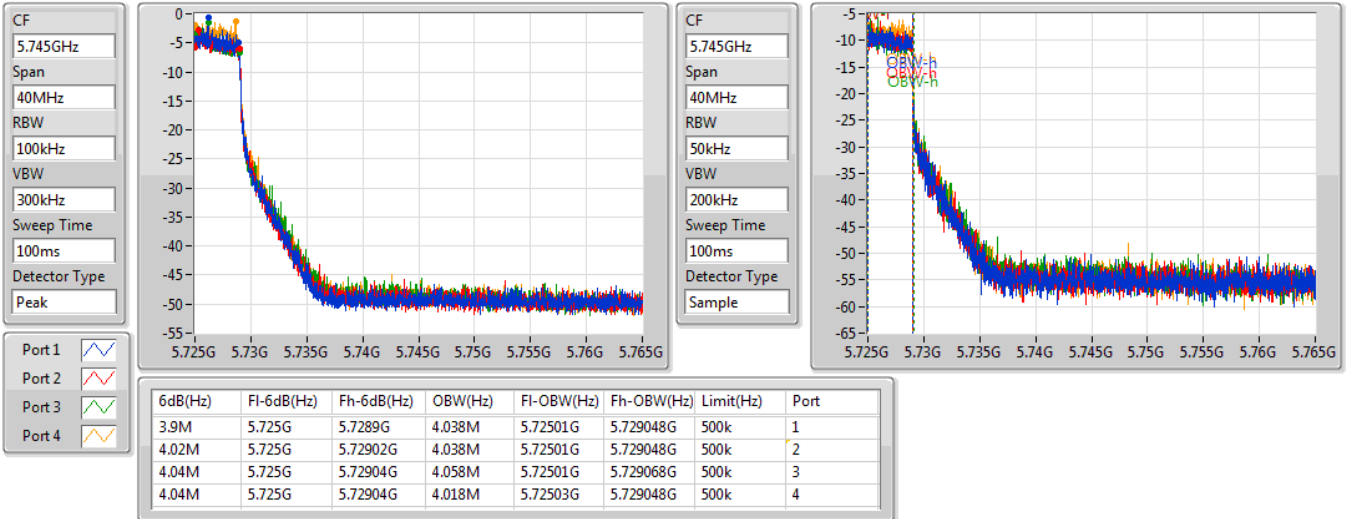

802.11ax HEW40_Nss1,(MCS0)_4TX
EBW
5710MHz Straddle 5.47-5.725GHz

01/08/2019

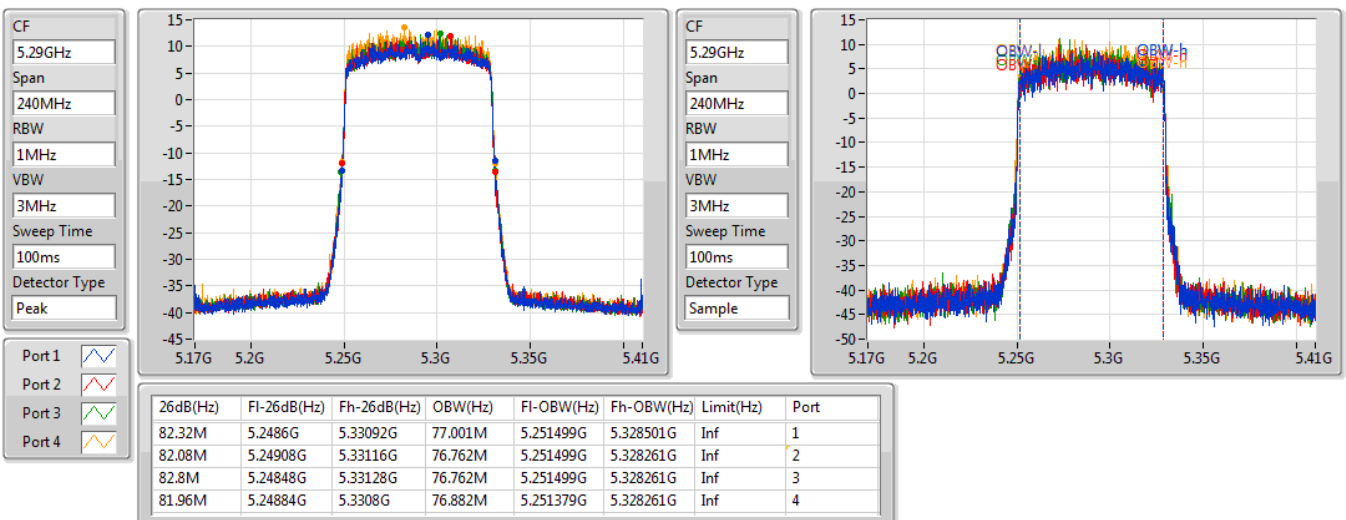


802.11ax HEW40_Nss1,(MCS0)_4TX
EBW
5710MHz Straddle 5.725-5.85GHz

01/08/2019

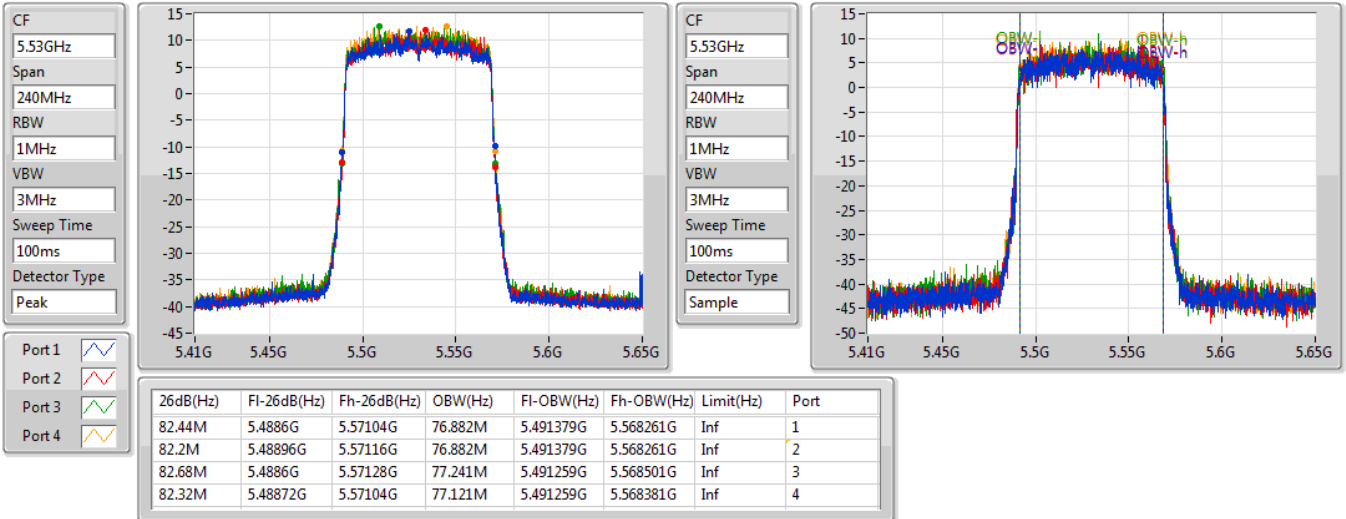

802.11ax HEW80_Nss1,(MCS0)_4TX
EBW
5290MHz

01/08/2019

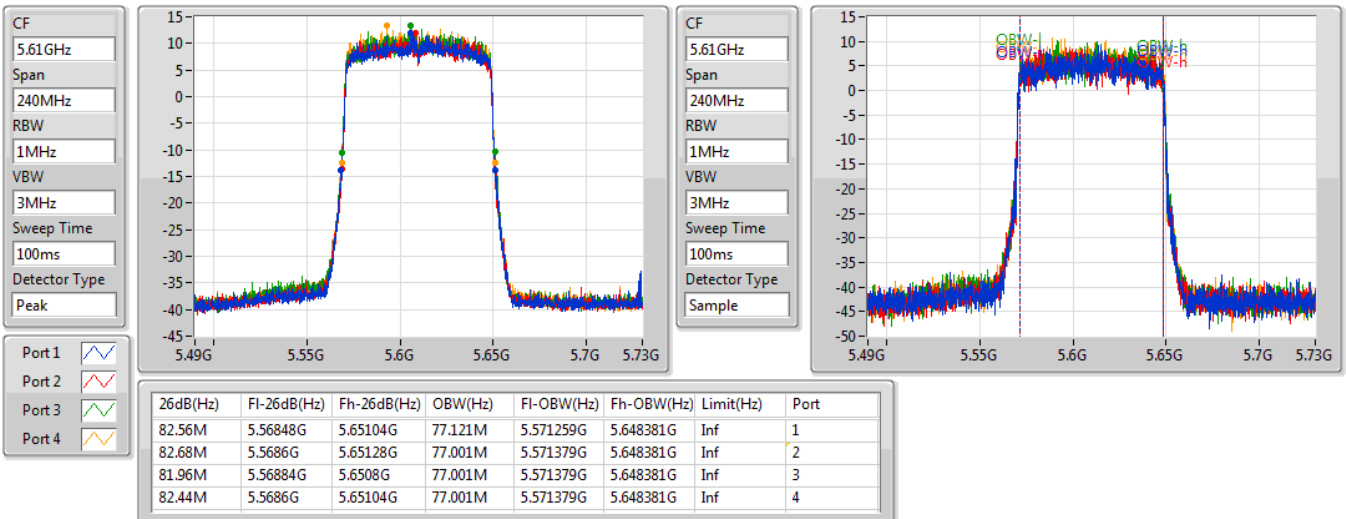


802.11ax HEW80_Nss1,(MCS0)_4TX
EBW
5530MHz

01/08/2019

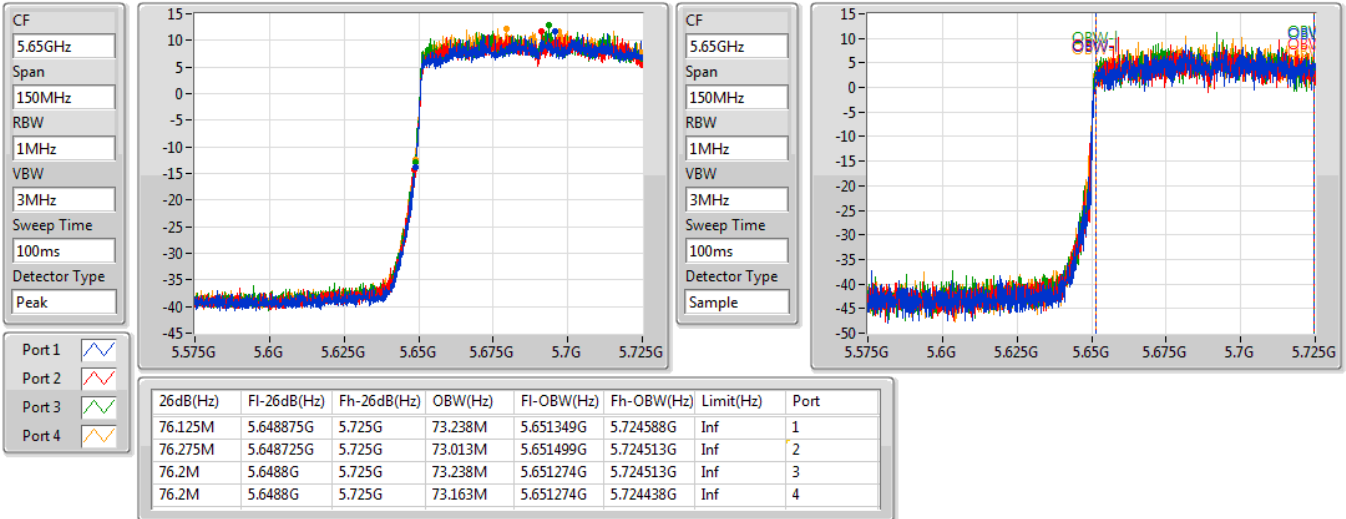

802.11ax HEW80_Nss1,(MCS0)_4TX
EBW
5610MHz

01/08/2019

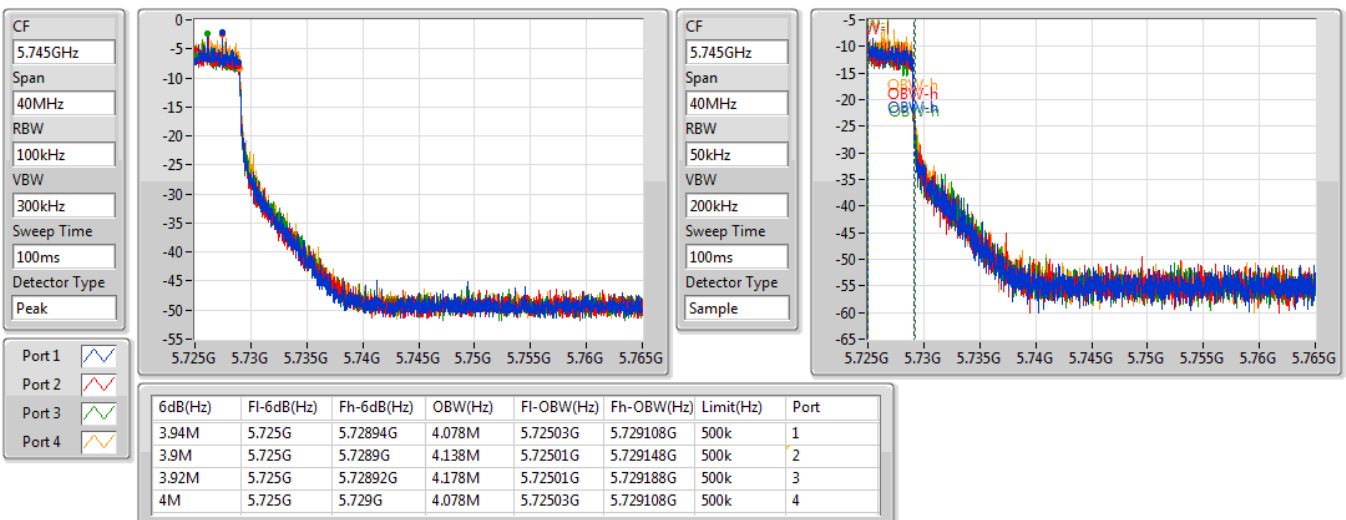


802.11ax HEW80_Nss1,(MCS0)_4TX
EBW
5690MHz Straddle 5.47-5.725GHz

01/08/2019


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

01/08/2019



Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.25-5.35GHz	-	-	-	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	22.08M	18.921M	18M9D1D	21.48M	18.861M
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	42.12M	37.721M	37M7D1D	40.74M	37.601M
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	81.96M	77.121M	77M1D1D	81.12M	76.882M
5.47-5.725GHz	-	-	-	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	21.9M	18.921M	18M9D1D	15.63M	14.468M
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	41.28M	37.781M	37M8D1D	35.455M	33.688M
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	81.6M	77.121M	77M1D1D	75.3M	72.939M
5.725-5.85GHz	-	-	-	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	4.4M	4.478M	4M48D1D	4.1M	4.478M
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	4M	4.078M	4M08D1D	3.96M	4.038M
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	3.98M	4.438M	4M44D1D	3.94M	4.278M

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

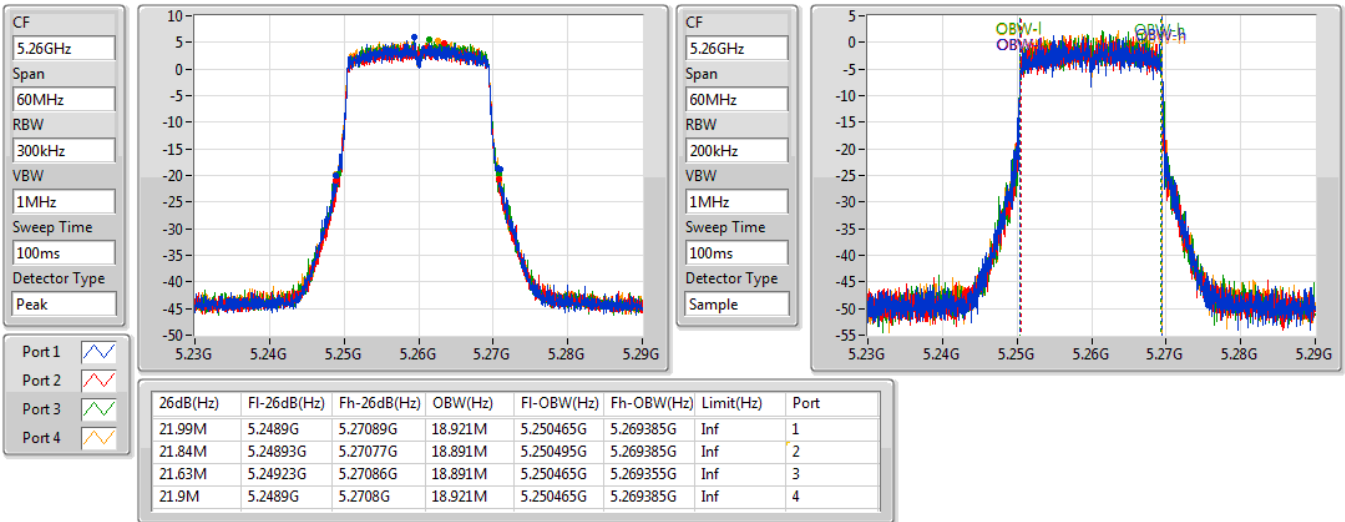
Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)	Port 3-N dB (Hz)	Port 3-OBW (Hz)	Port 4-N dB (Hz)	Port 4-OBW (Hz)
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5260MHz	Pass	Inf	21.99M	18.921M	21.84M	18.891M	21.63M	18.891M	21.9M	18.921M
5300MHz	Pass	Inf	21.75M	18.921M	21.6M	18.891M	21.69M	18.921M	21.75M	18.921M
5320MHz	Pass	Inf	22.08M	18.861M	21.48M	18.891M	21.63M	18.861M	21.93M	18.921M
5500MHz	Pass	Inf	21.81M	18.921M	21.66M	18.921M	21.3M	18.921M	21.45M	18.891M
5580MHz	Pass	Inf	21.87M	18.861M	21.87M	18.891M	20.46M	18.891M	21.9M	18.861M
5700MHz	Pass	Inf	21.72M	18.891M	21.57M	18.891M	21.45M	18.891M	21.33M	18.921M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	15.63M	14.468M	15.825M	14.468M	15.645M	14.468M	15.78M	14.483M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	4.36M	4.478M	4.1M	4.478M	4.4M	4.478M	4.4M	4.478M
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5270MHz	Pass	Inf	42.12M	37.721M	41.22M	37.601M	40.74M	37.721M	40.98M	37.661M
5310MHz	Pass	Inf	41.58M	37.661M	41.04M	37.721M	40.98M	37.661M	40.8M	37.661M
5510MHz	Pass	Inf	40.44M	37.601M	41.04M	37.721M	40.2M	37.661M	40.44M	37.601M
5550MHz	Pass	Inf	40.86M	37.721M	40.86M	37.661M	41.1M	37.781M	40.38M	37.661M
5670MHz	Pass	Inf	39.78M	37.601M	40.86M	37.601M	40.5M	37.661M	41.28M	37.661M
5710MHz Straddle 5.47-5.725GHz	Pass	Inf	35.77M	33.793M	35.455M	33.688M	35.455M	33.688M	35.56M	33.758M
5710MHz Straddle 5.725-5.85GHz	Pass	500k	3.96M	4.058M	3.96M	4.078M	4M	4.038M	3.96M	4.078M
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5290MHz	Pass	Inf	81.48M	77.121M	81.12M	77.001M	81.96M	77.001M	81.72M	76.882M
5530MHz	Pass	Inf	81.6M	77.121M	81.12M	76.882M	81.48M	77.001M	81.24M	77.121M
5610MHz	Pass	Inf	81M	77.121M	81.24M	77.121M	81.24M	77.001M	80.52M	77.121M
5690MHz Straddle 5.47-5.725GHz	Pass	Inf	76.2M	73.013M	75.6M	72.939M	75.3M	73.163M	76.5M	73.013M
5690MHz Straddle 5.725-5.85GHz	Pass	500k	3.96M	4.278M	3.94M	4.438M	3.98M	4.298M	3.94M	4.278M

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

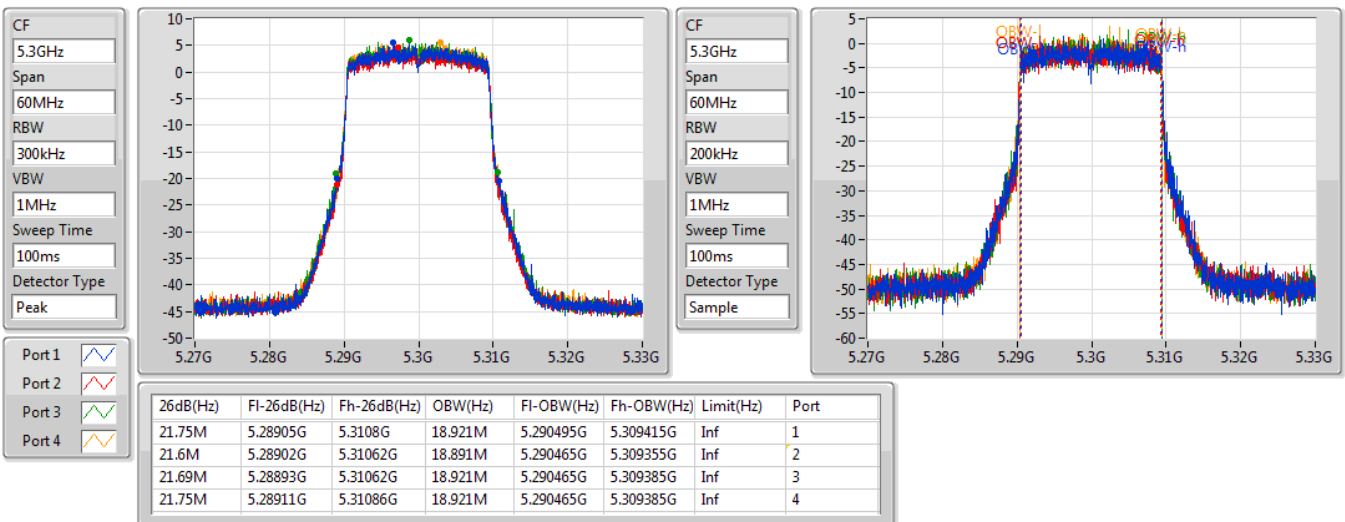
Port X-OBW = Port X 99% occupied bandwidth;

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

03/08/2019

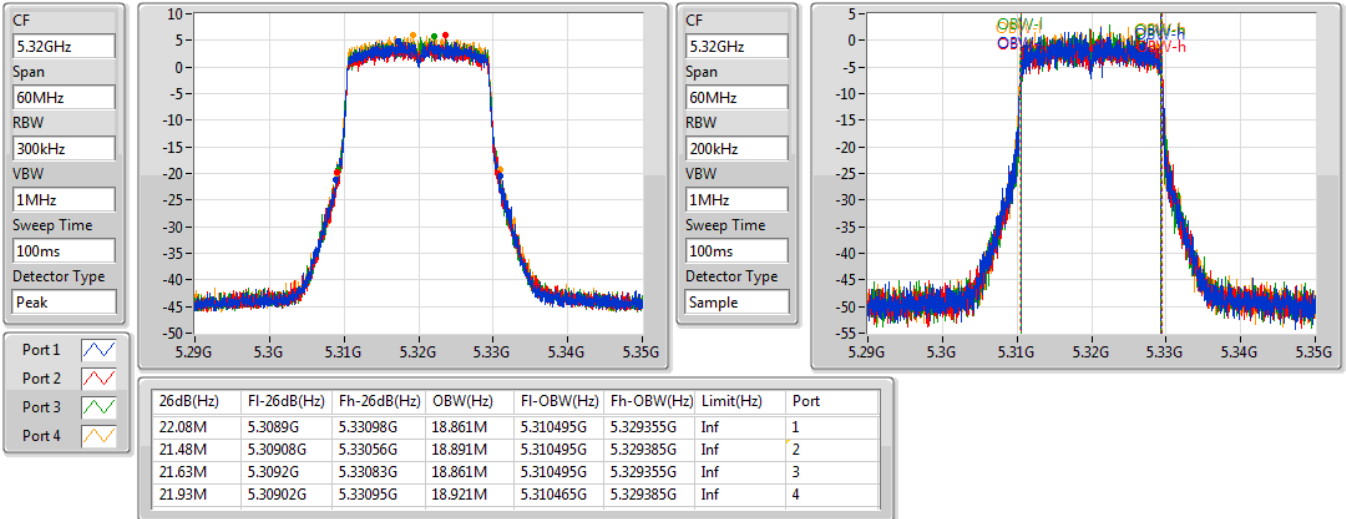

802.11ax HEW20-BF_Nss1,(MCS0)_4TX
EBW
5300MHz

03/08/2019

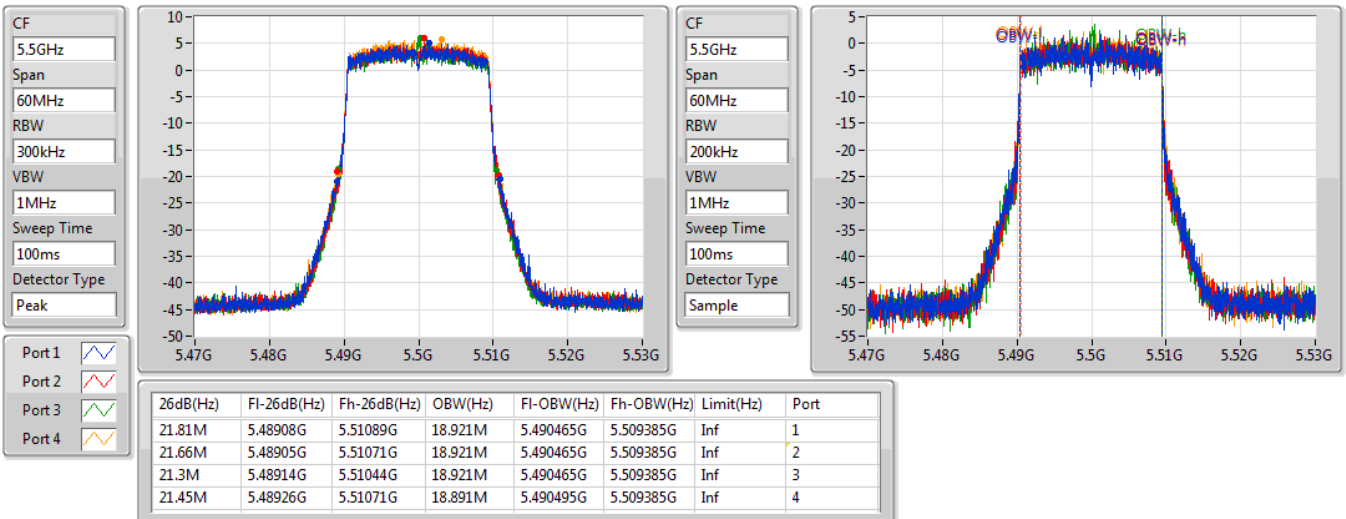


802.11ax HEW20-BF_Nss1,(MCS0)_4TX
EBW
5320MHz

03/08/2019

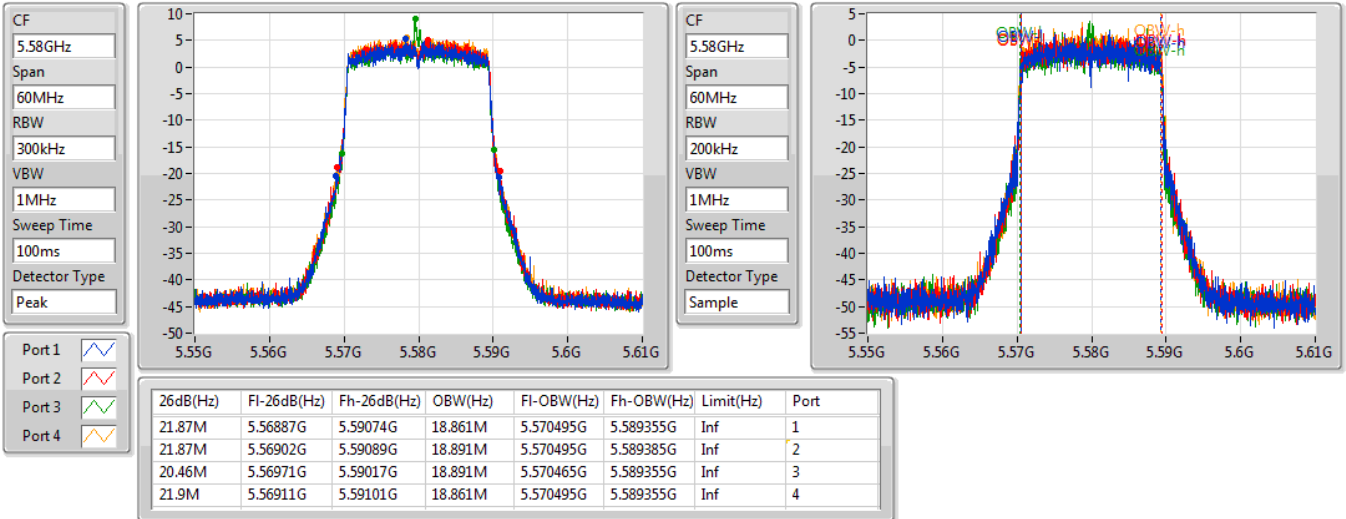

802.11ax HEW20-BF_Nss1,(MCS0)_4TX
EBW
5500MHz

03/08/2019

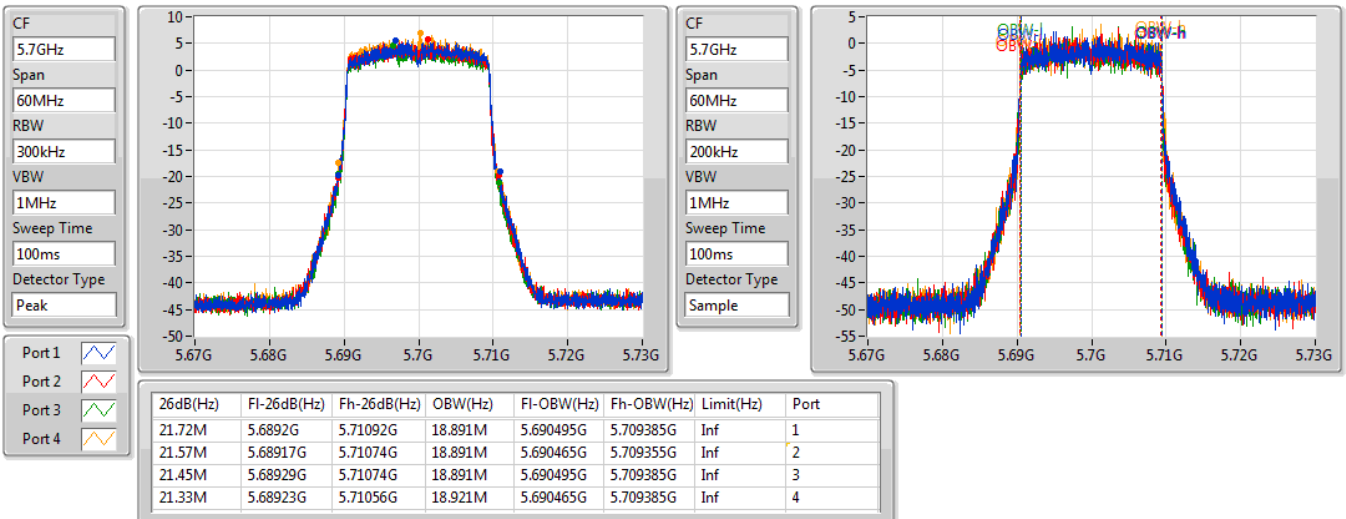


802.11ax HEW20-BF_Nss1,(MCS0)_4TX
EBW
5580MHz

03/08/2019

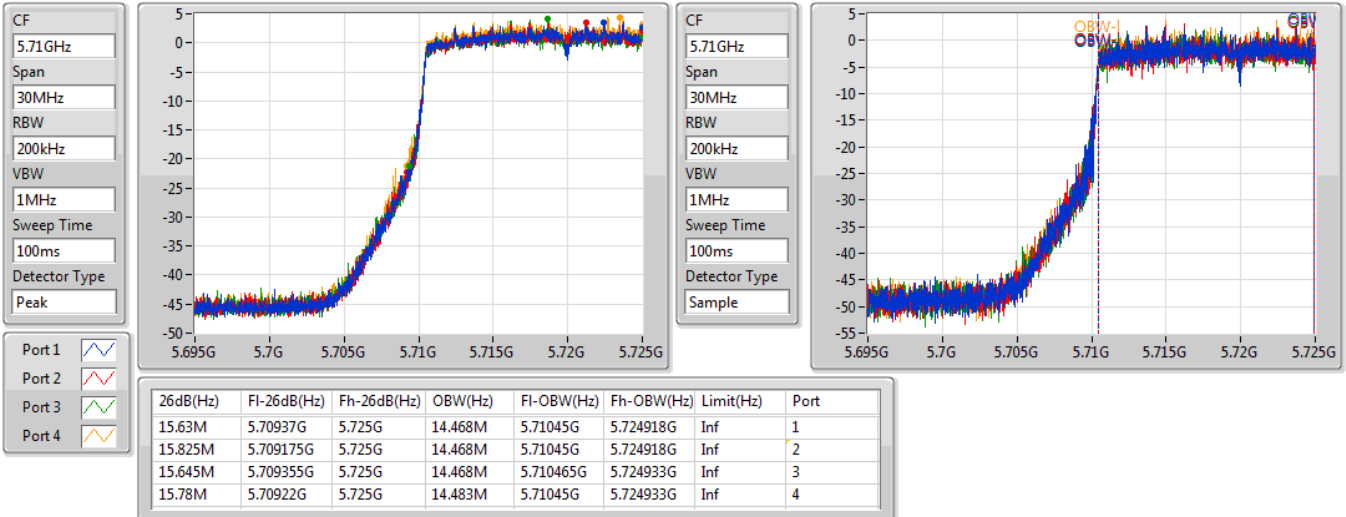

802.11ax HEW20-BF_Nss1,(MCS0)_4TX
EBW
5700MHz

03/08/2019

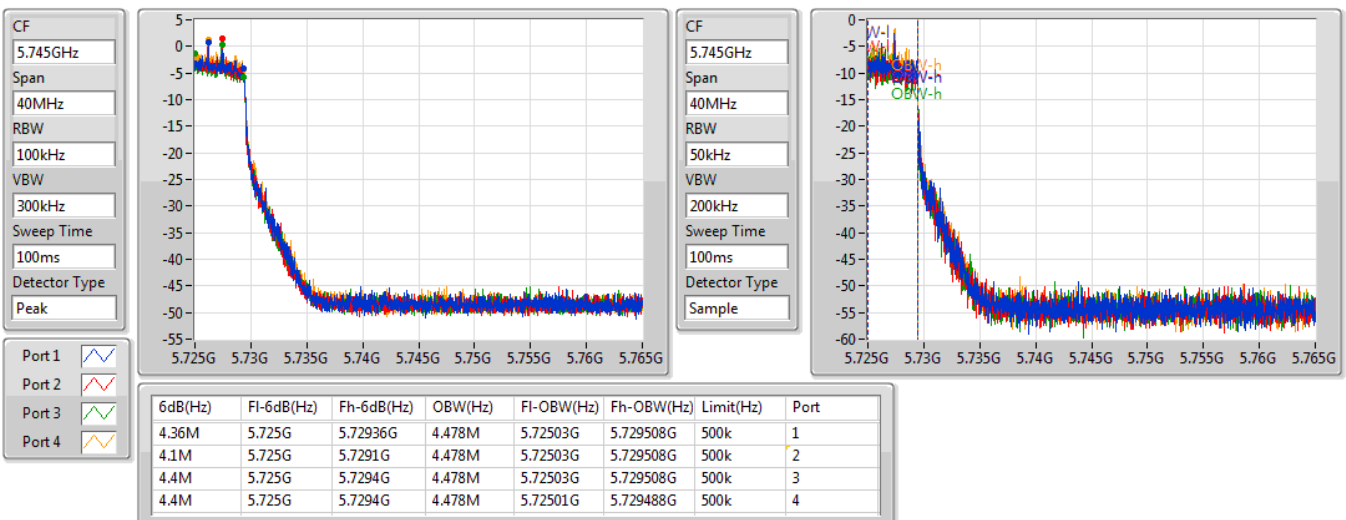


802.11ax HEW20-BF_Nss1,(MCS0)_4TX
EBW
5720MHz Straddle 5.47-5.725GHz

05/08/2019

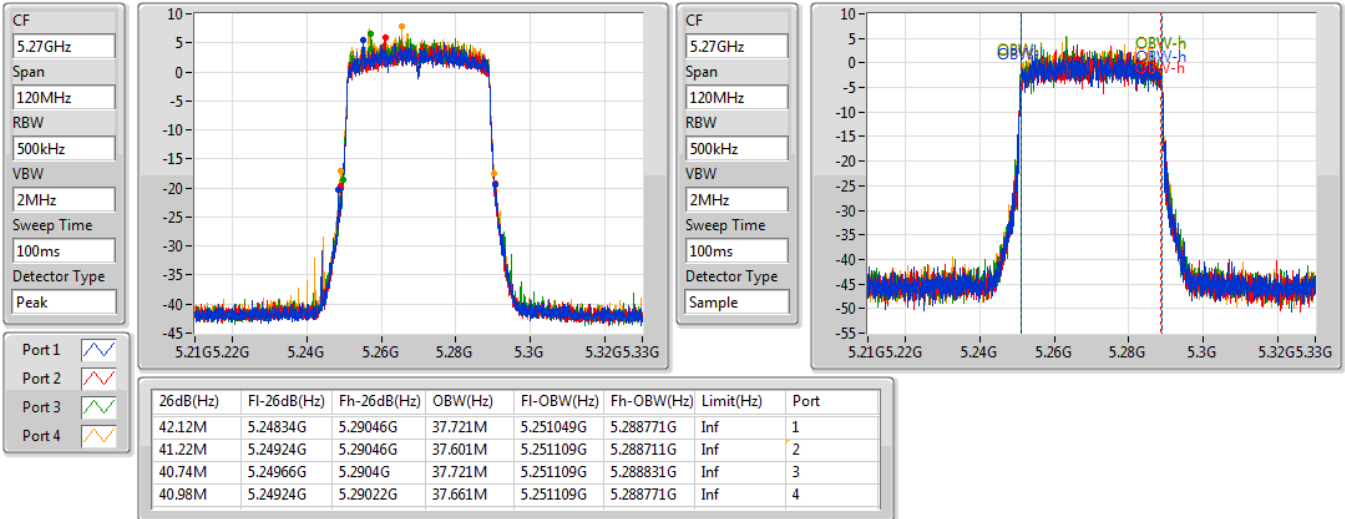

802.11ax HEW20-BF_Nss1,(MCS0)_4TX
EBW
5720MHz Straddle 5.725-5.85GHz

05/08/2019

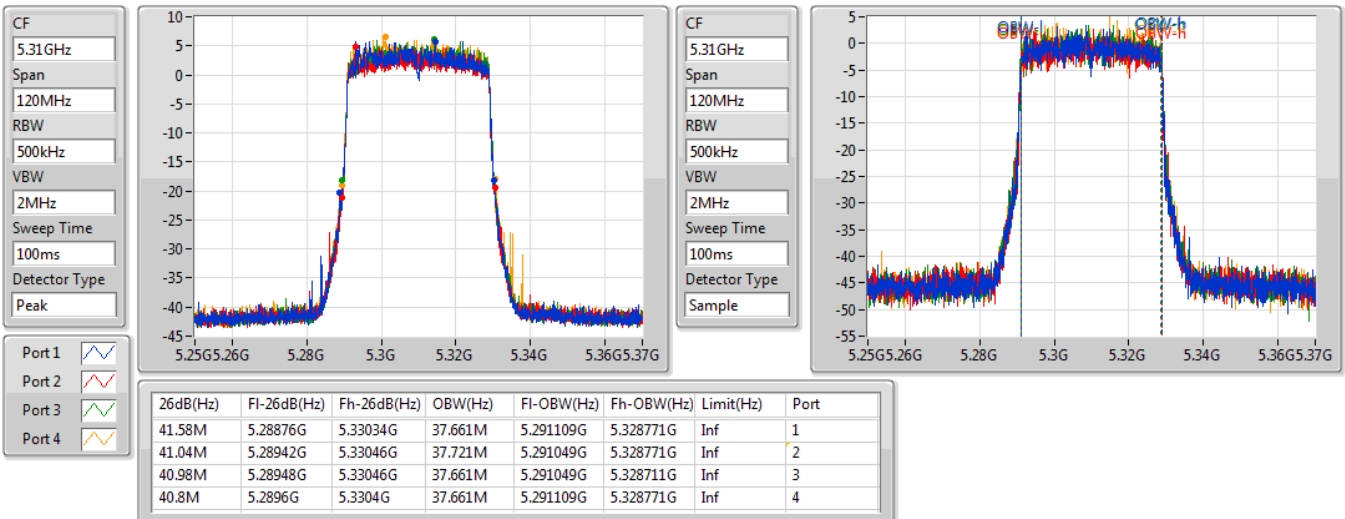


802.11ax HEW40-BF_Nss1,(MCS0)_4TX
EBW
5270MHz

05/08/2019

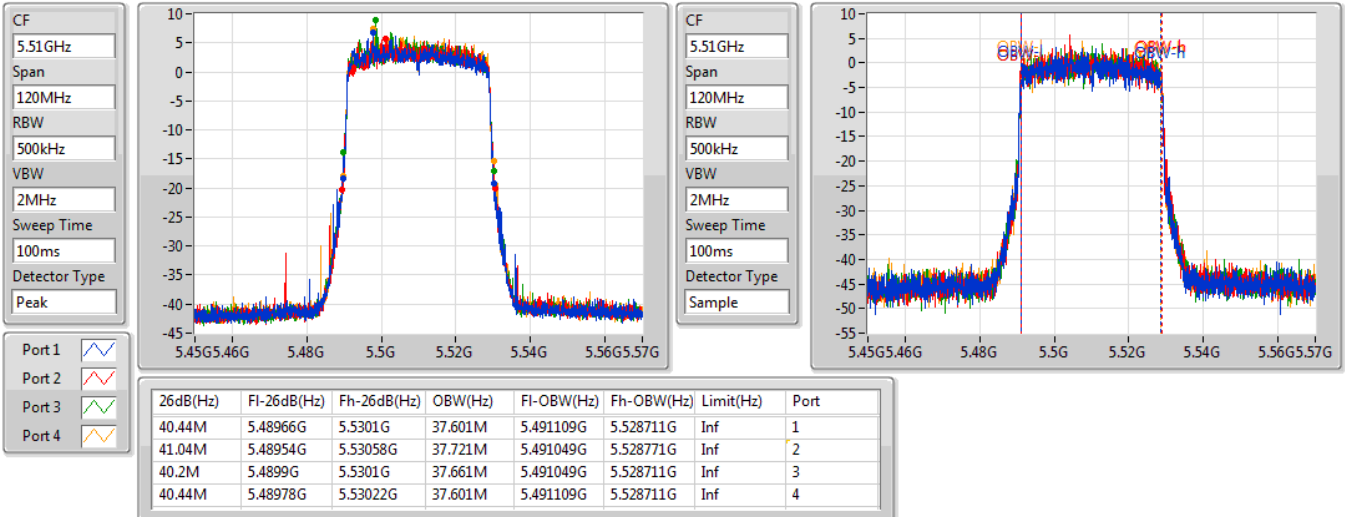

802.11ax HEW40-BF_Nss1,(MCS0)_4TX
EBW
5310MHz

05/08/2019

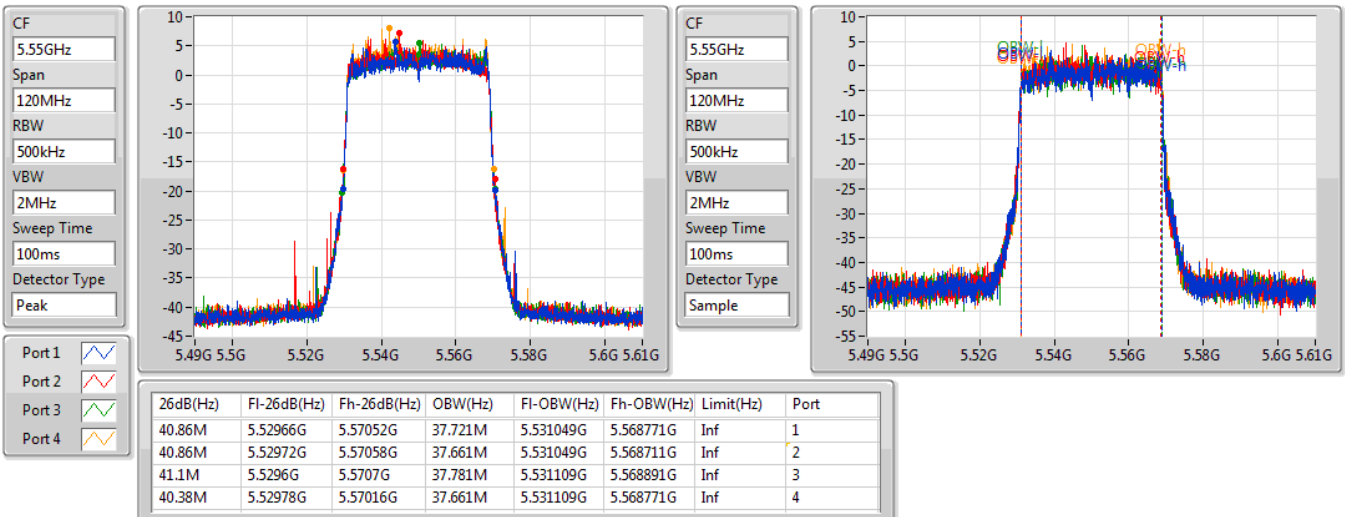


802.11ax HEW40-BF_Nss1,(MCS0)_4TX
EBW
5510MHz

05/08/2019

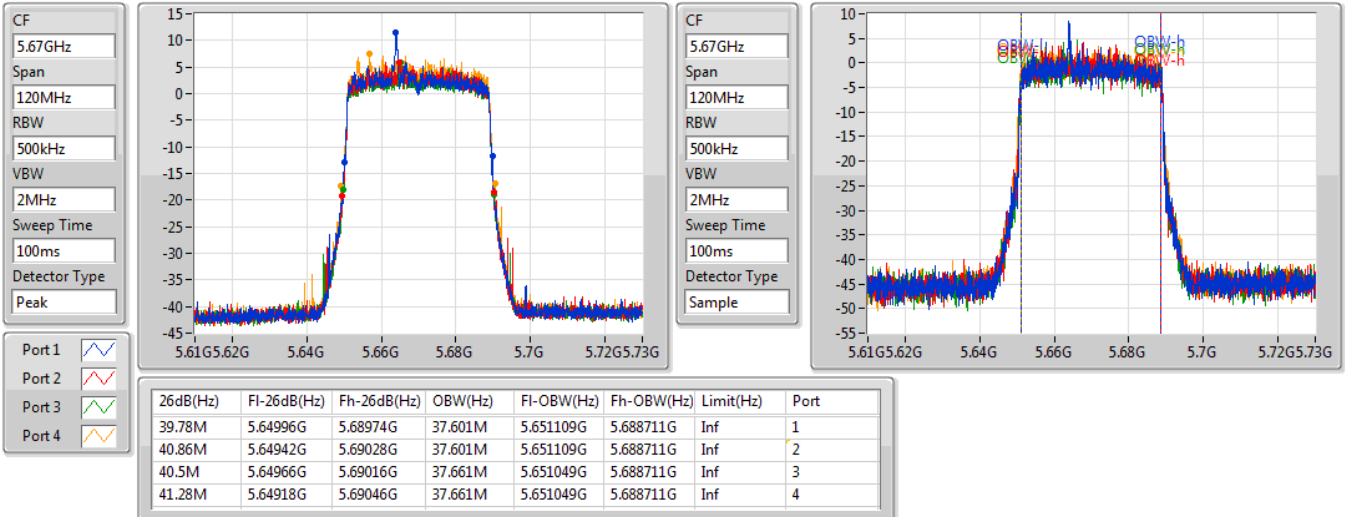

802.11ax HEW40-BF_Nss1,(MCS0)_4TX
EBW
5550MHz

05/08/2019

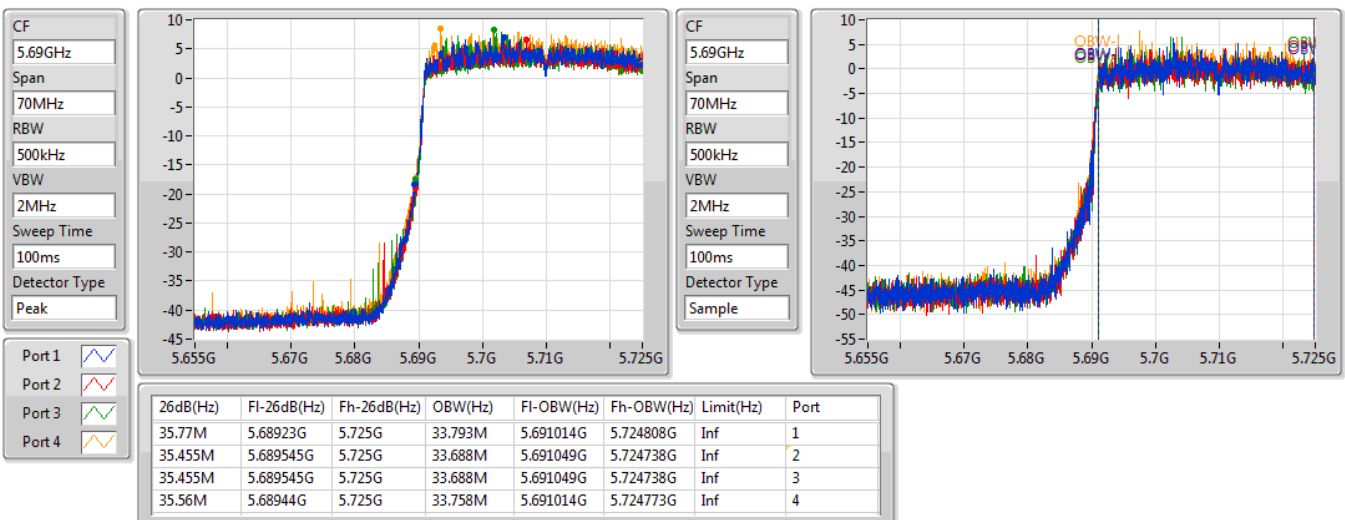


802.11ax HEW40-BF_Nss1,(MCS0)_4TX
EBW
5670MHz

05/08/2019

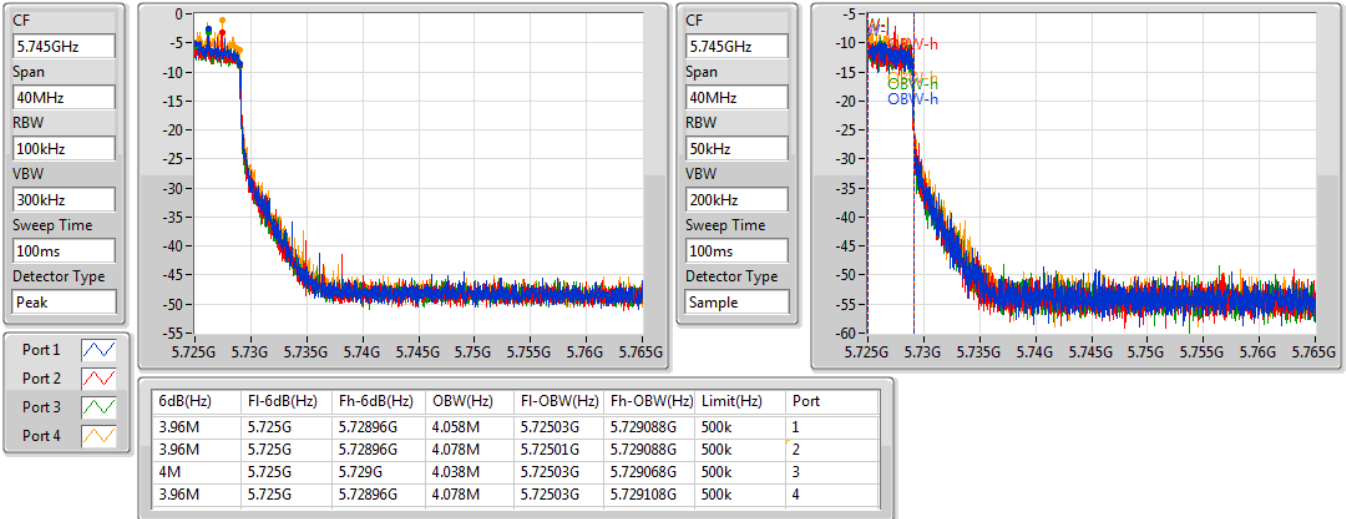

802.11ax HEW40-BF_Nss1,(MCS0)_4TX
EBW
5710MHz Straddle 5.47-5.725GHz

05/08/2019

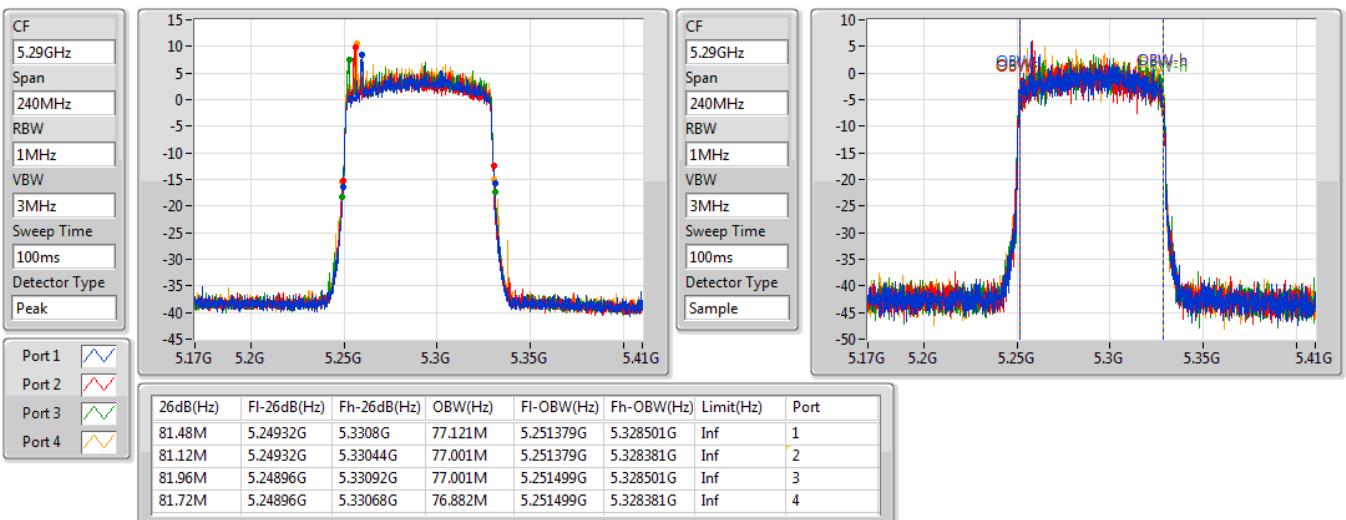


802.11ax HEW40-BF_Nss1,(MCS0)_4TX
EBW
5710MHz Straddle 5.725-5.85GHz

05/08/2019

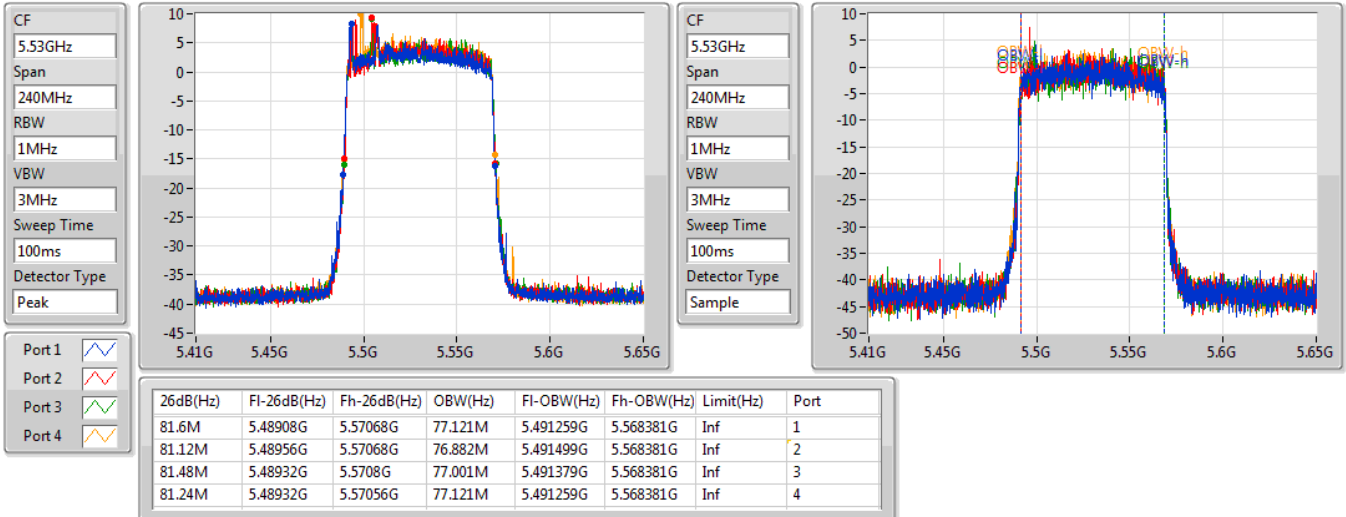

802.11ax HEW80-BF_Nss1,(MCS0)_4TX
EBW
5290MHz

05/08/2019

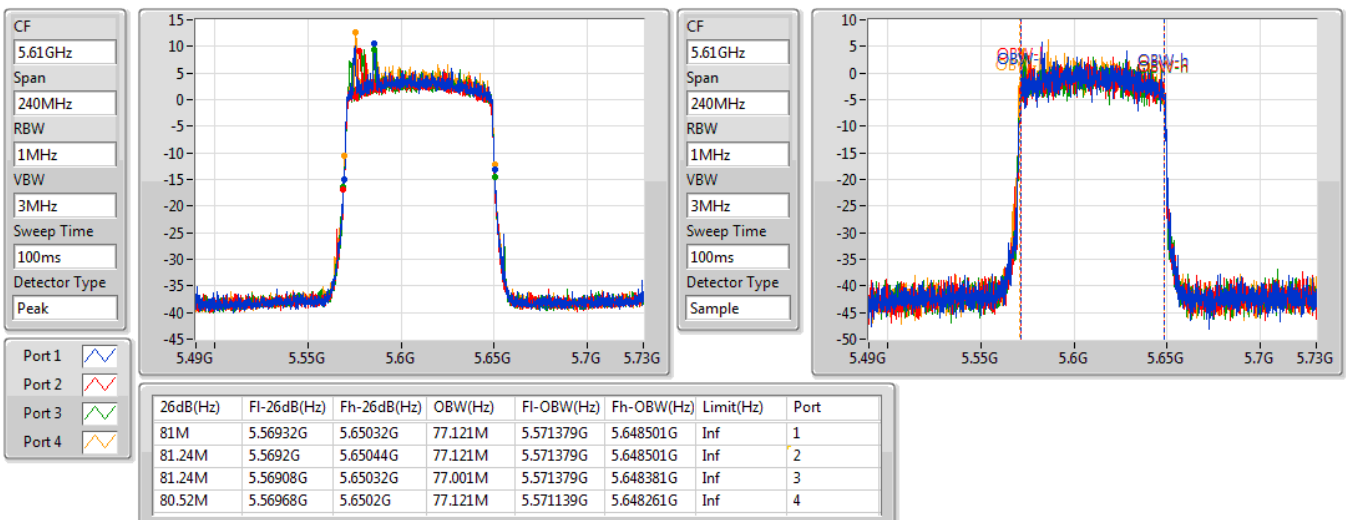


802.11ax HEW80-BF_Nss1,(MCS0)_4TX
EBW
5530MHz

05/08/2019

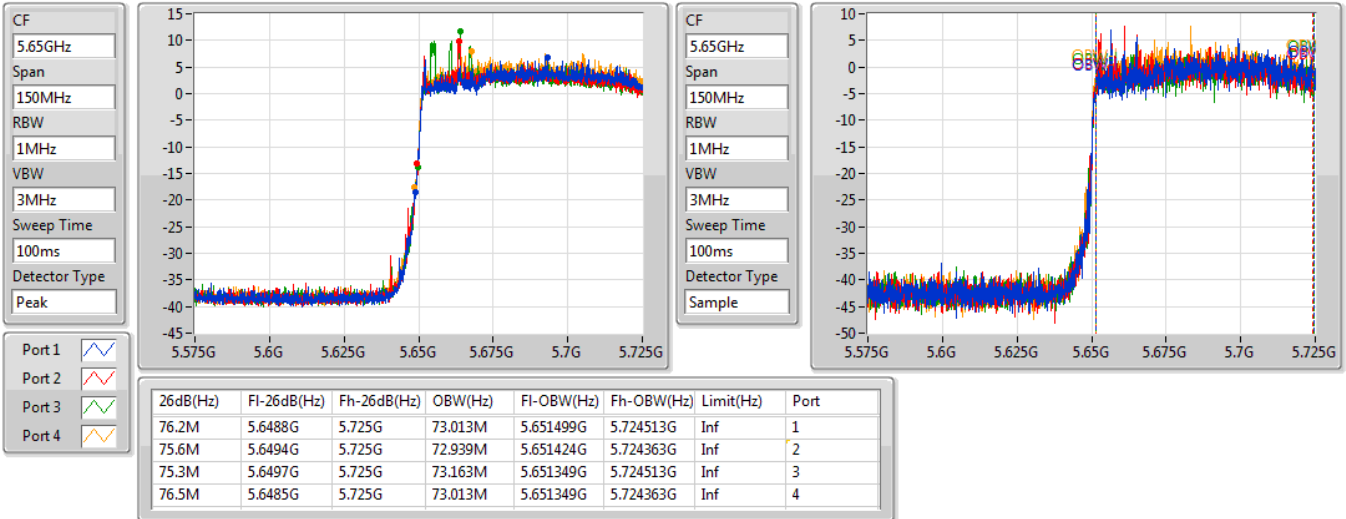

802.11ax HEW80-BF_Nss1,(MCS0)_4TX
EBW
5610MHz

05/08/2019

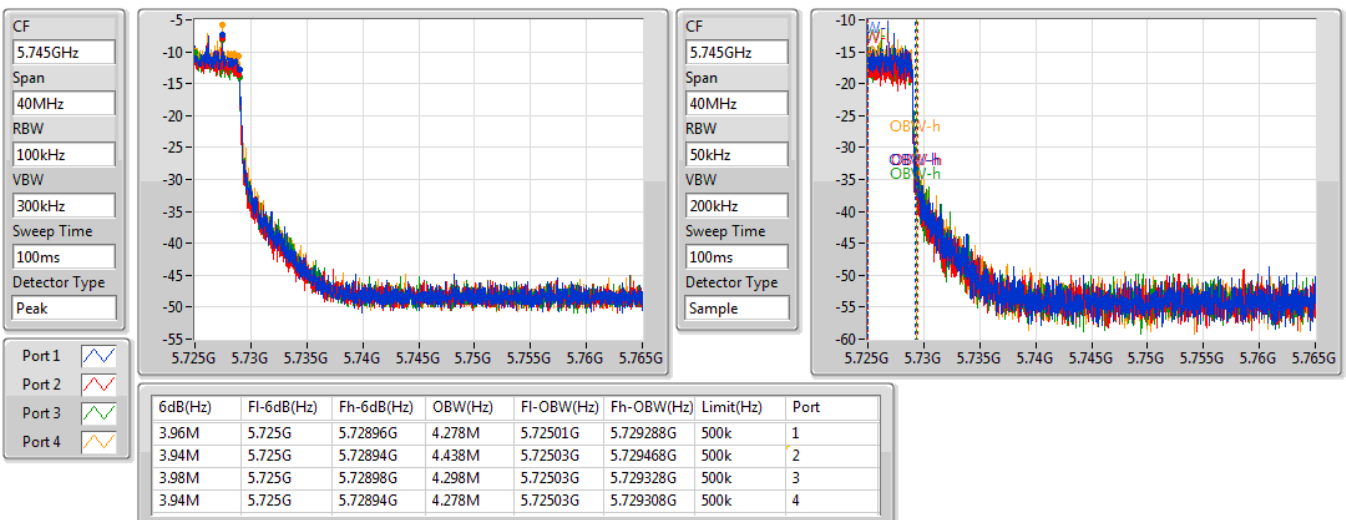


802.11ax HEW80-BF_Nss1,(MCS0)_4TX
EBW
5690MHz Straddle 5.47-5.725GHz

05/08/2019


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

05/08/2019



Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.25-5.35GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	20.61M	16.432M	16M4D1D	20.46M	16.402M
802.11ax HEW20_Nss1,(MCS0)_1TX	22.26M	18.891M	18M9D1D	21.78M	18.891M
802.11ax HEW40_Nss1,(MCS0)_1TX	41.16M	37.781M	37M8D1D	40.98M	37.661M
802.11ax HEW80_Nss1,(MCS0)_1TX	82.2M	77.001M	77M0D1D	82.2M	77.001M
5.47-5.725GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	20.76M	16.402M	16M4D1D	15.36M	13.223M
802.11ax HEW20_Nss1,(MCS0)_1TX	22.41M	18.921M	18M9D1D	16.095M	14.468M
802.11ax HEW40_Nss1,(MCS0)_1TX	41.34M	37.721M	37M7D1D	36.05M	33.793M
802.11ax HEW80_Nss1,(MCS0)_1TX	84M	77.241M	77M2D1D	76.65M	73.238M
5.725-5.85GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	3.08M	3.618M	3M62D1D	3.08M	3.618M
802.11ax HEW20_Nss1,(MCS0)_1TX	4.4M	4.558M	4M56D1D	4.4M	4.558M
802.11ax HEW40_Nss1,(MCS0)_1TX	3.92M	5.797M	5M80D1D	3.92M	5.797M
802.11ax HEW80_Nss1,(MCS0)_1TX	4M	17.971M	18M0D1D	4M	17.971M

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

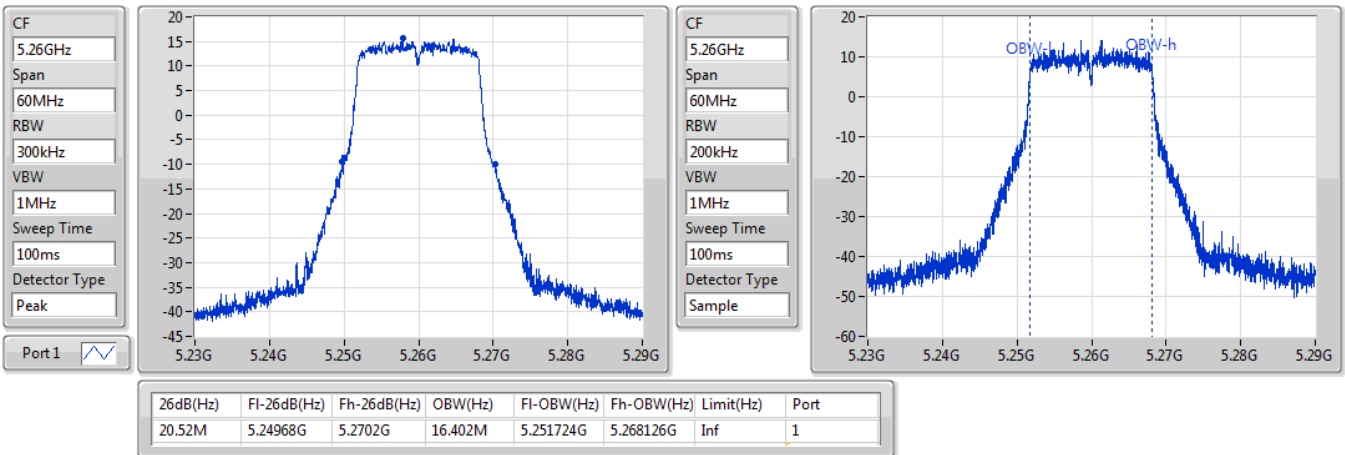
Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
802.11a_Nss1,(6Mbps)_1TX	-	-	-	-
5260MHz	Pass	Inf	20.52M	16.402M
5300MHz	Pass	Inf	20.46M	16.432M
5320MHz	Pass	Inf	20.61M	16.402M
5500MHz	Pass	Inf	20.58M	16.402M
5580MHz	Pass	Inf	20.58M	16.402M
5700MHz	Pass	Inf	20.76M	16.402M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	15.36M	13.223M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	3.08M	3.618M
802.11ax HEW20_Nss1,(MCS0)_1TX	-	-	-	-
5260MHz	Pass	Inf	22.26M	18.891M
5300MHz	Pass	Inf	21.78M	18.891M
5320MHz	Pass	Inf	21.84M	18.891M
5500MHz	Pass	Inf	22.41M	18.921M
5580MHz	Pass	Inf	22.02M	18.921M
5700MHz	Pass	Inf	21.99M	18.921M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	16.095M	14.468M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	4.4M	4.558M
802.11ax HEW40_Nss1,(MCS0)_1TX	-	-	-	-
5270MHz	Pass	Inf	41.16M	37.781M
5310MHz	Pass	Inf	40.98M	37.661M
5510MHz	Pass	Inf	41.28M	37.661M
5550MHz	Pass	Inf	41.34M	37.721M
5670MHz	Pass	Inf	41.1M	37.661M
5710MHz Straddle 5.47-5.725GHz	Pass	Inf	36.05M	33.793M
5710MHz Straddle 5.725-5.85GHz	Pass	500k	3.92M	5.797M
802.11ax HEW80_Nss1,(MCS0)_1TX	-	-	-	-
5290MHz	Pass	Inf	82.2M	77.001M
5530MHz	Pass	Inf	82.2M	77.121M
5610MHz	Pass	Inf	84M	77.241M
5690MHz Straddle 5.47-5.725GHz	Pass	Inf	76.65M	73.238M
5690MHz Straddle 5.725-5.85GHz	Pass	500k	4M	17.971M

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

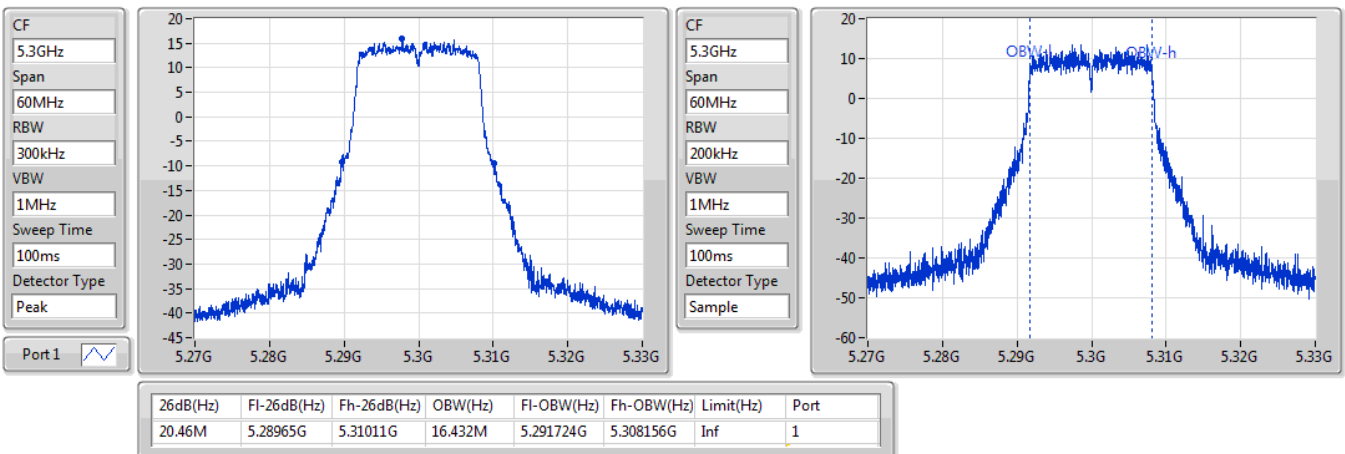
Port X-OBW = Port X 99% occupied bandwidth;

802.11a_Nss1,(6Mbps)_1TX
EBW
5260MHz

03/08/2019

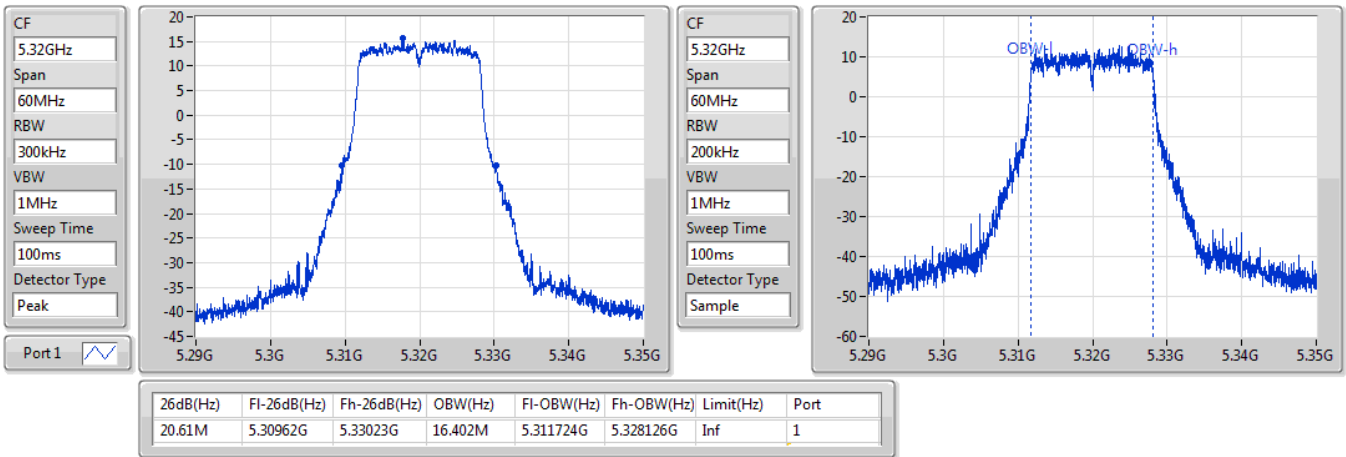

802.11a_Nss1,(6Mbps)_1TX
EBW
5300MHz

03/08/2019

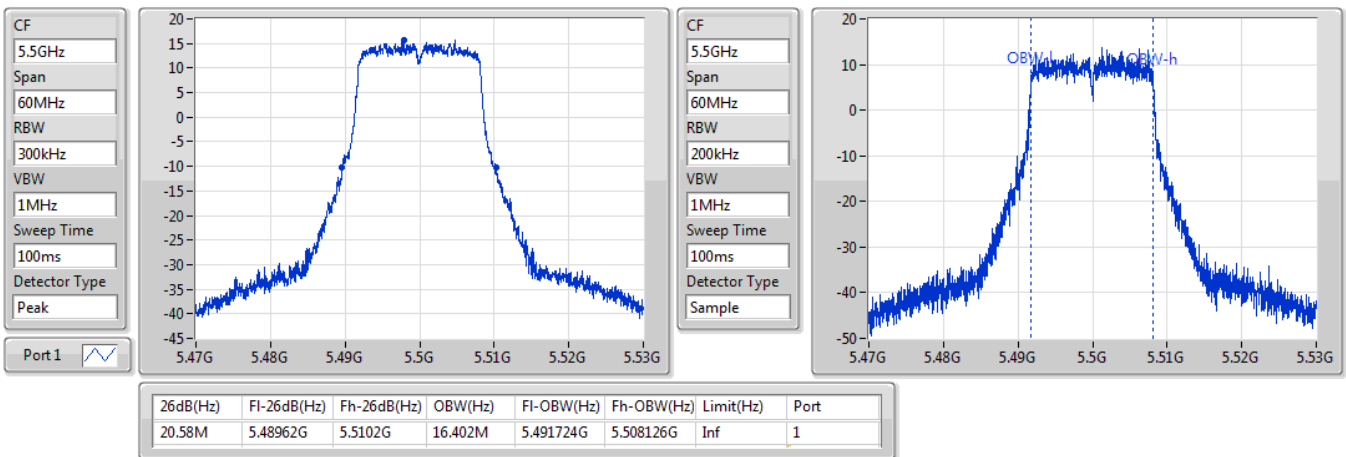


802.11a_Nss1,(6Mbps)_1TX
EBW
5320MHz

03/08/2019

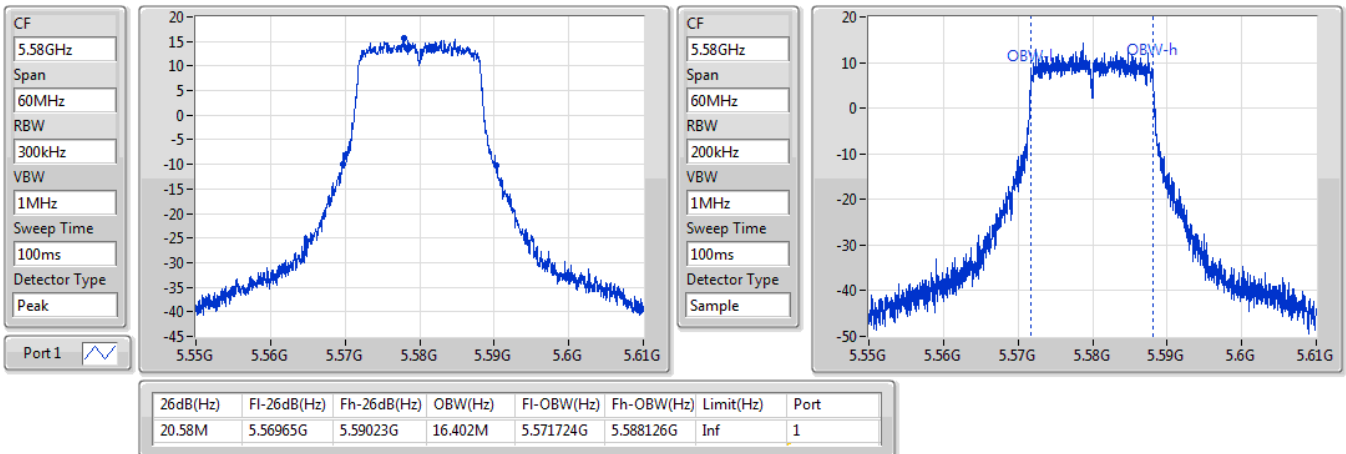

802.11a_Nss1,(6Mbps)_1TX
EBW
5500MHz

03/08/2019

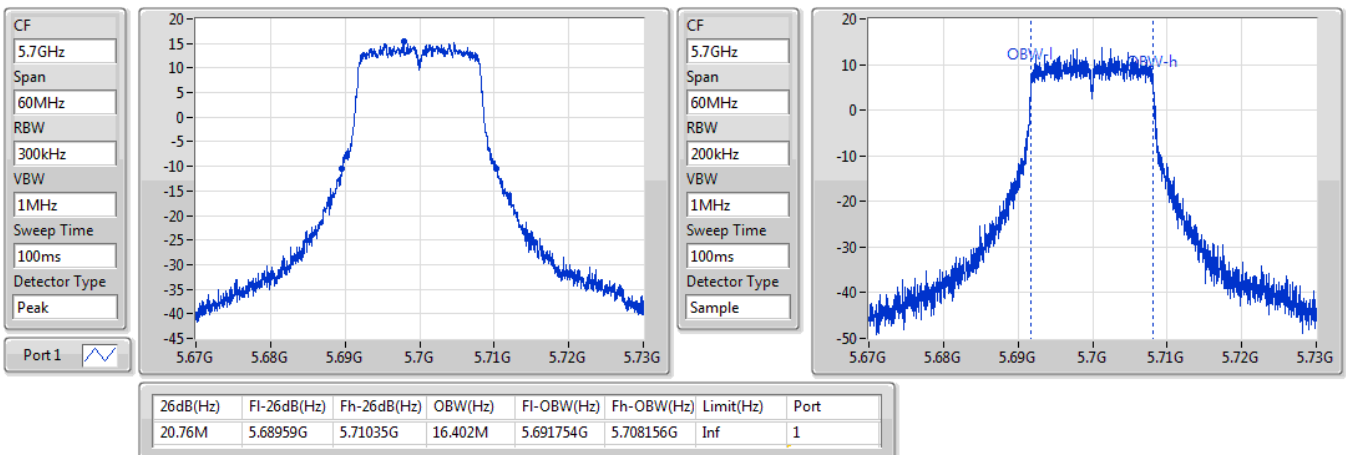


802.11a_Nss1,(6Mbps)_1TX
EBW
5580MHz

03/08/2019

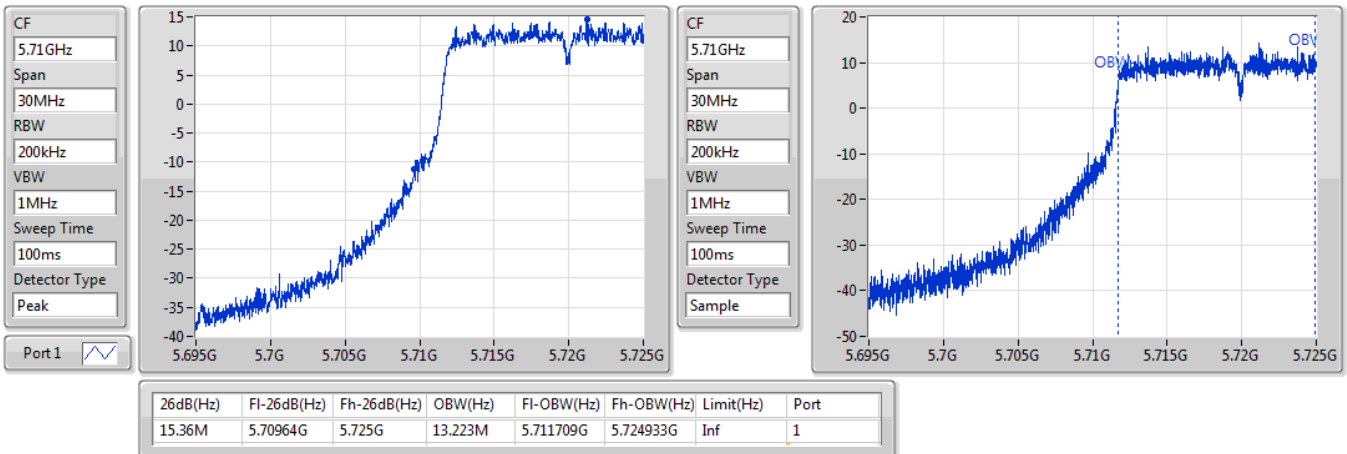

802.11a_Nss1,(6Mbps)_1TX
EBW
5700MHz

03/08/2019

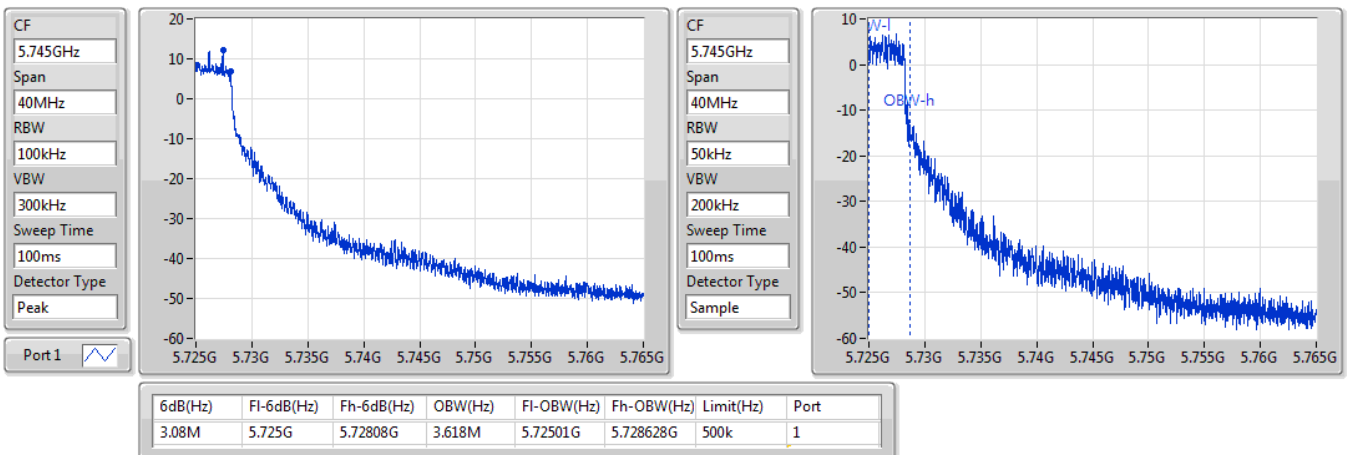


802.11a_Nss1,(6Mbps)_1TX
EBW
5720MHz Straddle 5.47-5.725GHz

03/08/2019

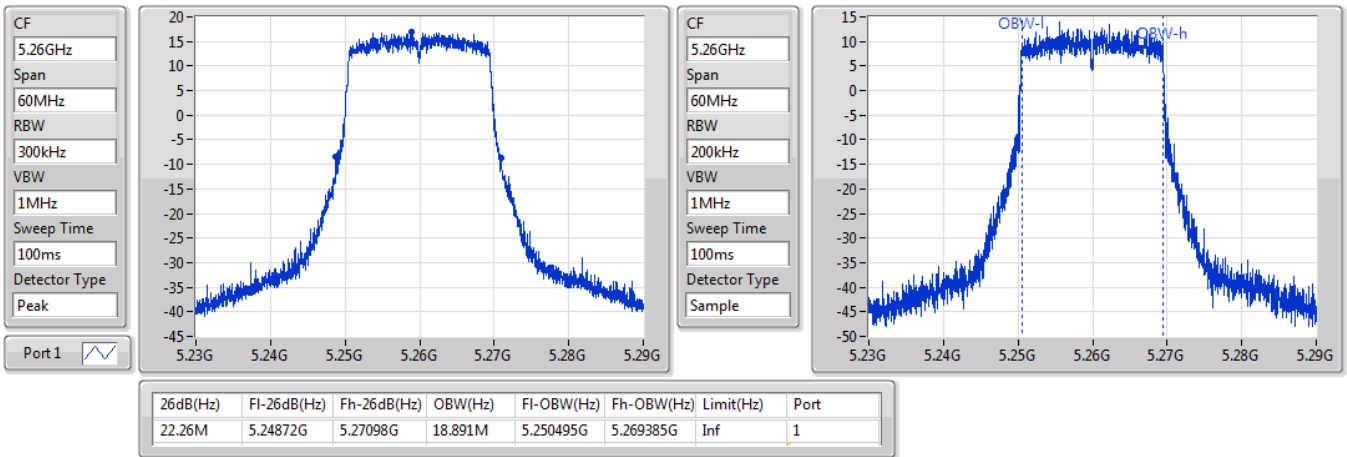

802.11a_Nss1,(6Mbps)_1TX
EBW
5720MHz Straddle 5.725-5.85GHz

03/08/2019

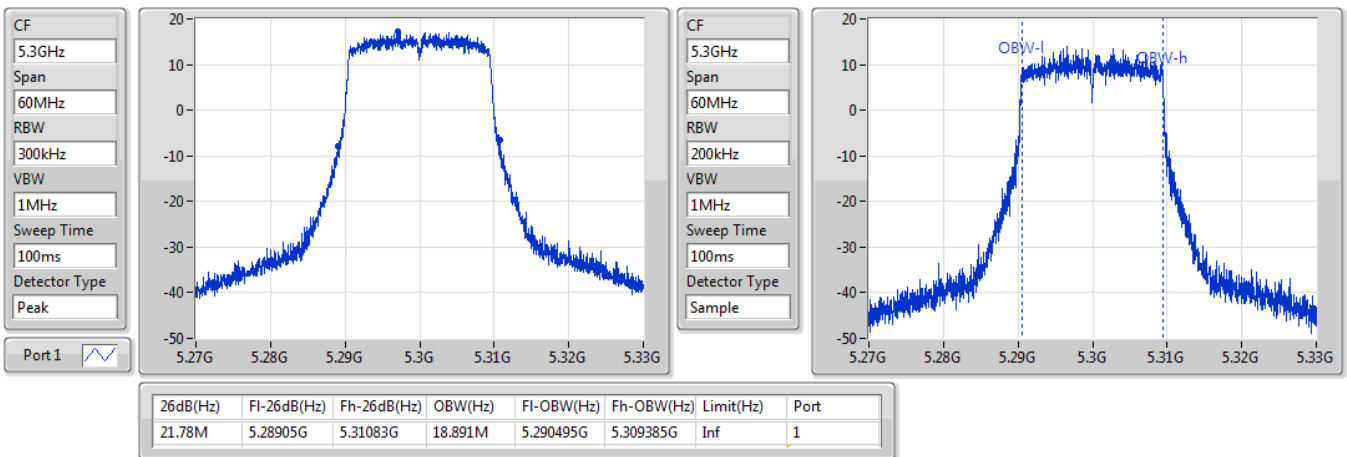


802.11ax HEW20_Nss1,(MCS0)_1TX
EBW
5260MHz

03/08/2019

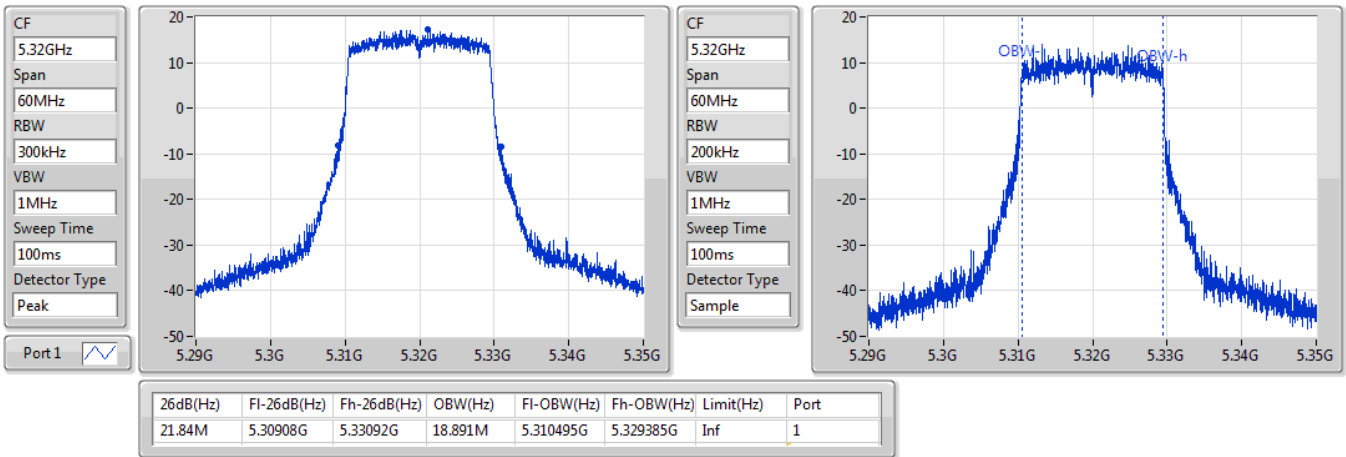

802.11ax HEW20_Nss1,(MCS0)_1TX
EBW
5300MHz

03/08/2019

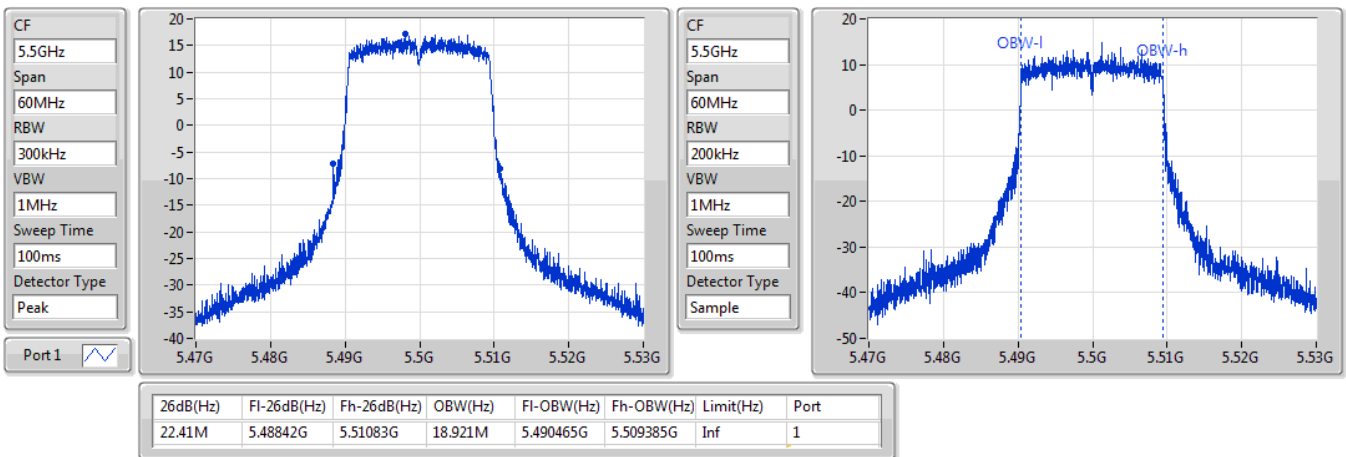


802.11ax HEW20_Nss1,(MCS0)_1TX
EBW
5320MHz

03/08/2019

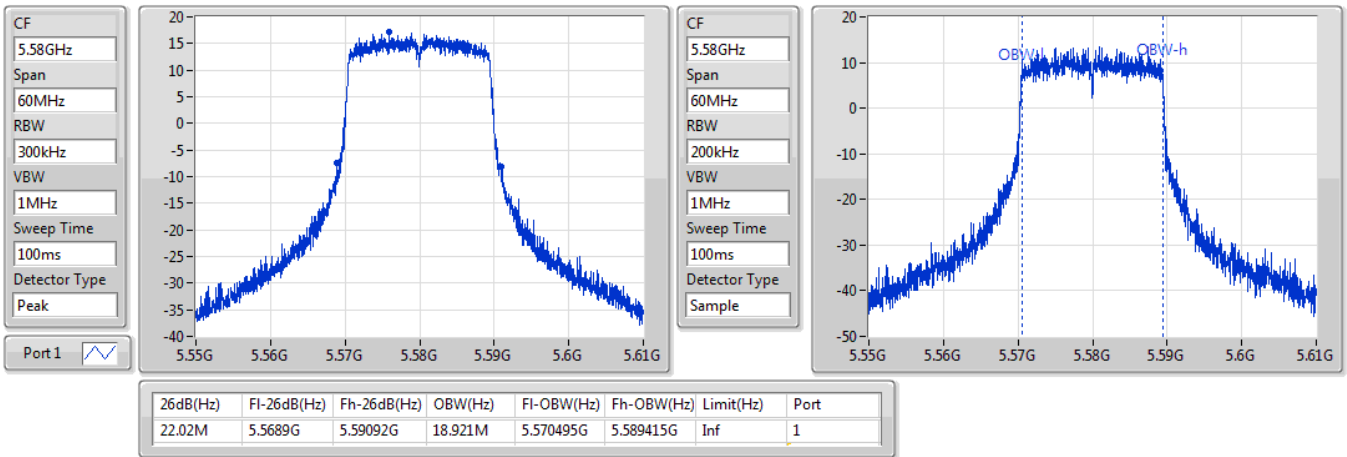

802.11ax HEW20_Nss1,(MCS0)_1TX
EBW
5500MHz

03/08/2019

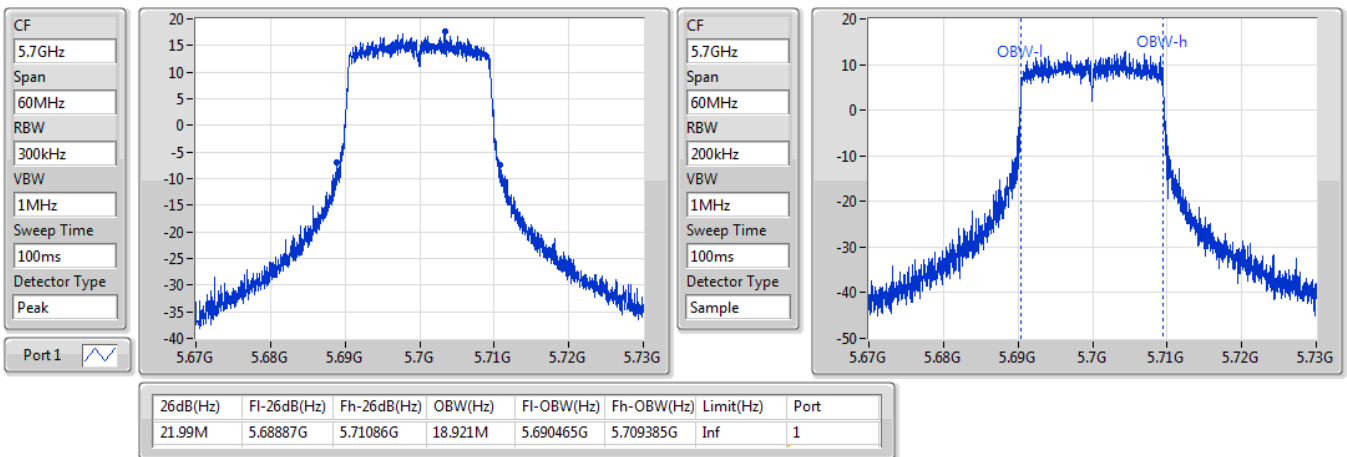


802.11ax HEW20_Nss1,(MCS0)_1TX
EBW
5580MHz

03/08/2019

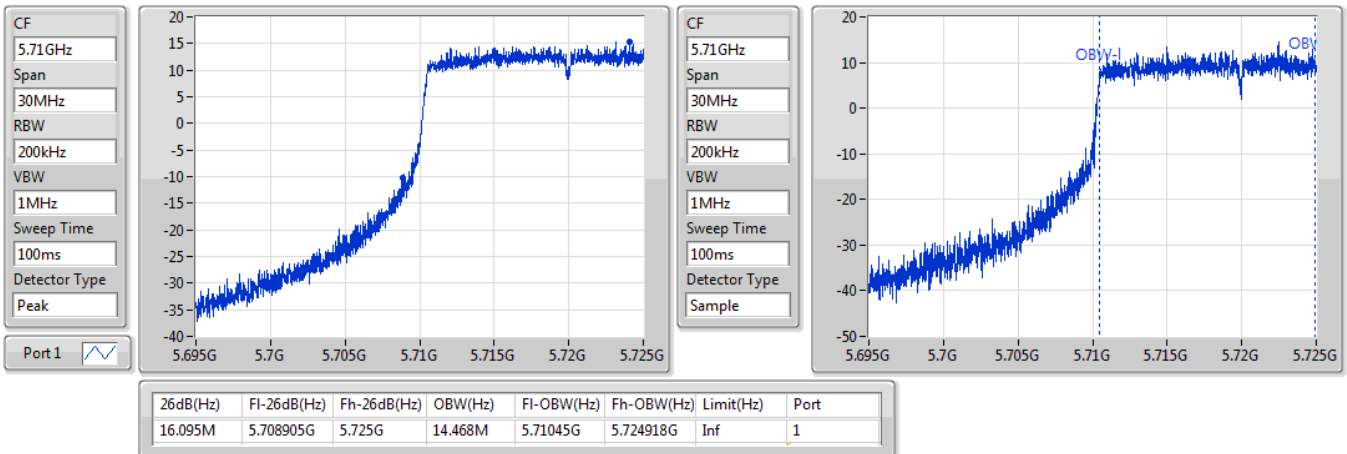

802.11ax HEW20_Nss1,(MCS0)_1TX
EBW
5700MHz

03/08/2019

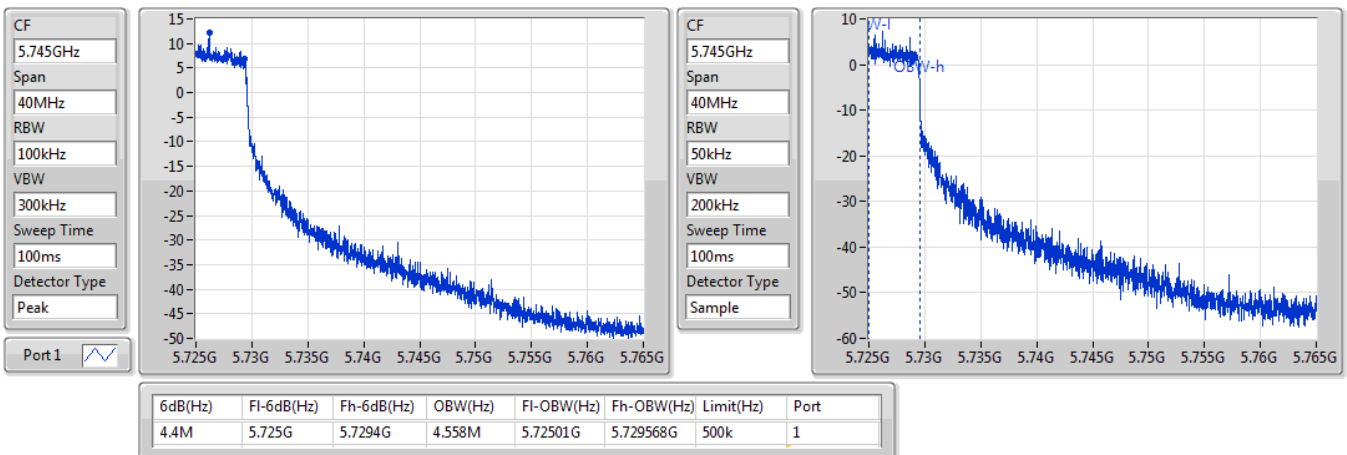


802.11ax HEW20_Nss1,(MCS0)_1TX
EBW
5720MHz Straddle 5.47-5.725GHz

03/08/2019

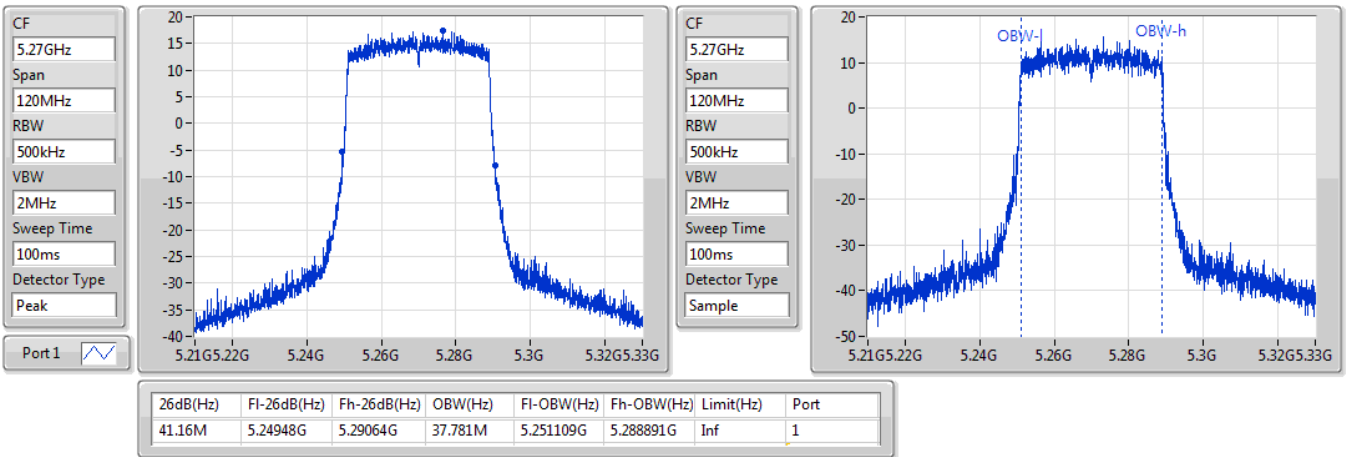

802.11ax HEW20_Nss1,(MCS0)_1TX
EBW
5720MHz Straddle 5.725-5.85GHz

03/08/2019

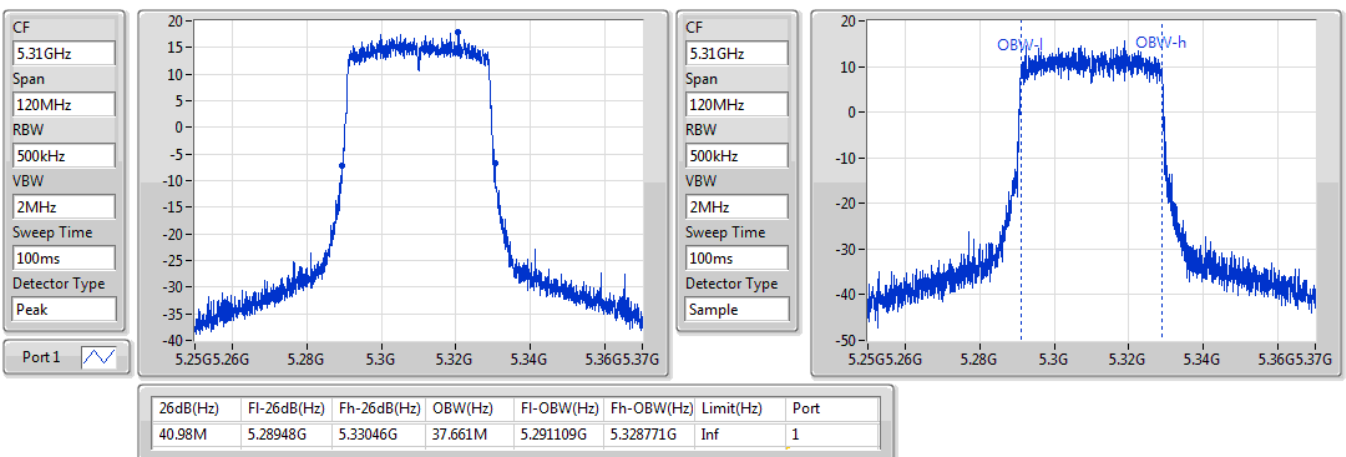


802.11ax HEW40_Nss1,(MCS0)_1TX
EBW
5270MHz

03/08/2019

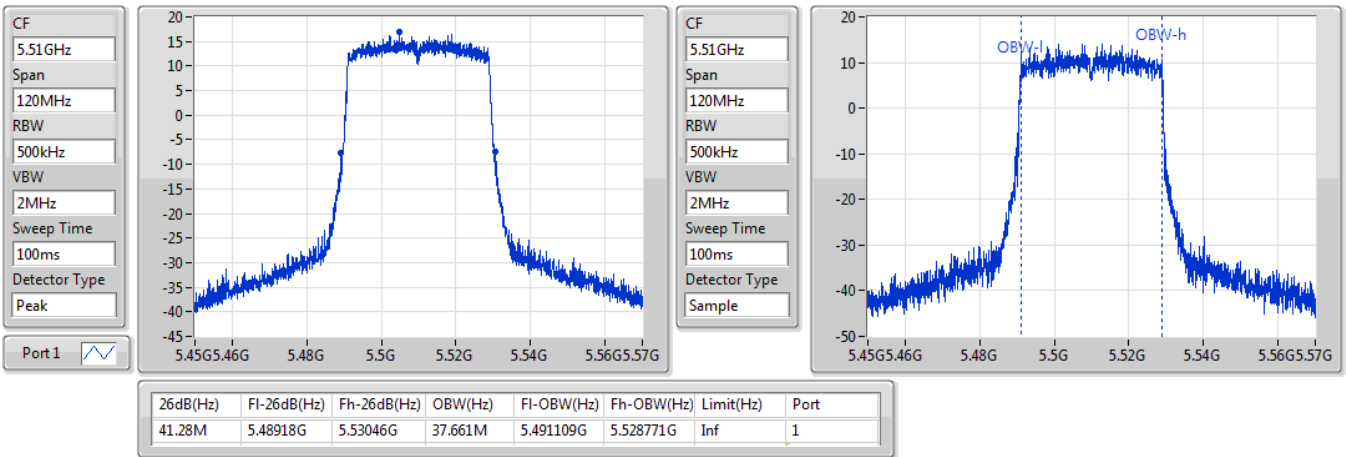

802.11ax HEW40_Nss1,(MCS0)_1TX
EBW
5310MHz

03/08/2019

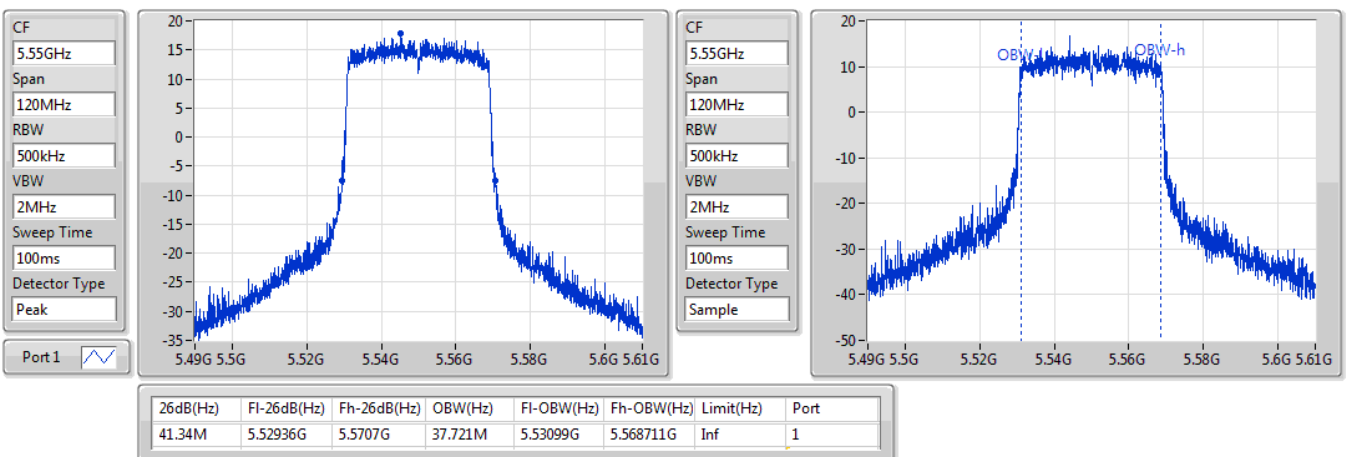


802.11ax HEW40_Nss1,(MCS0)_1TX
EBW
5510MHz

03/08/2019

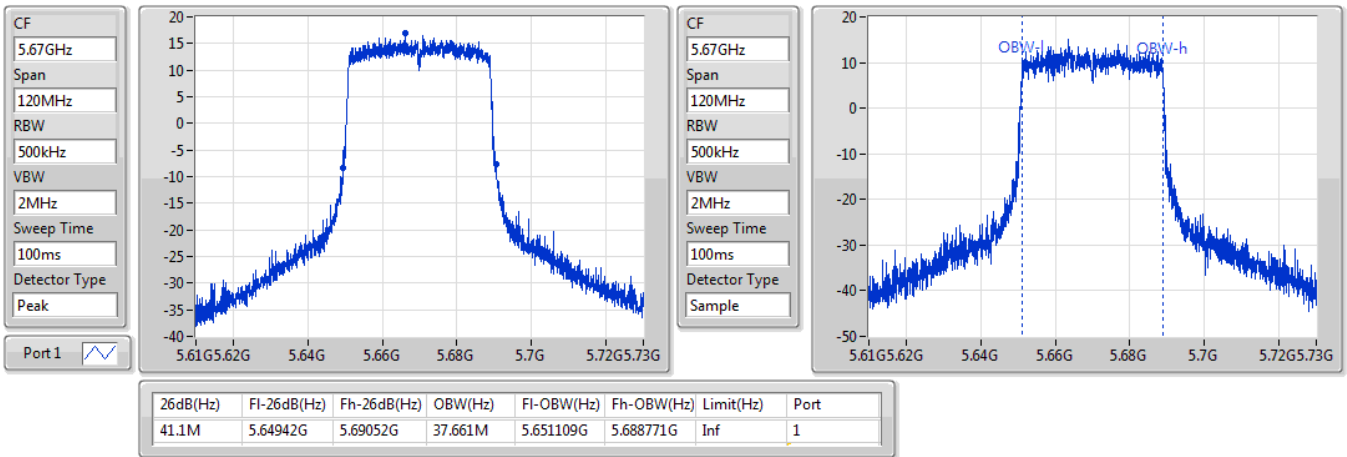

802.11ax HEW40_Nss1,(MCS0)_1TX
EBW
5550MHz

03/08/2019

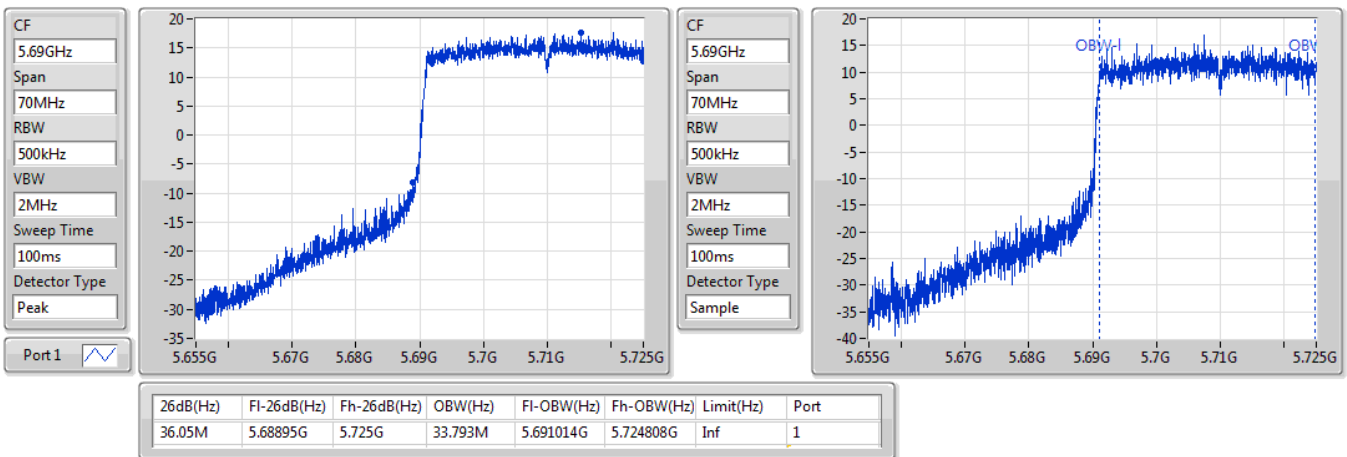


802.11ax HEW40_Nss1,(MCS0)_1TX
EBW
5670MHz

03/08/2019

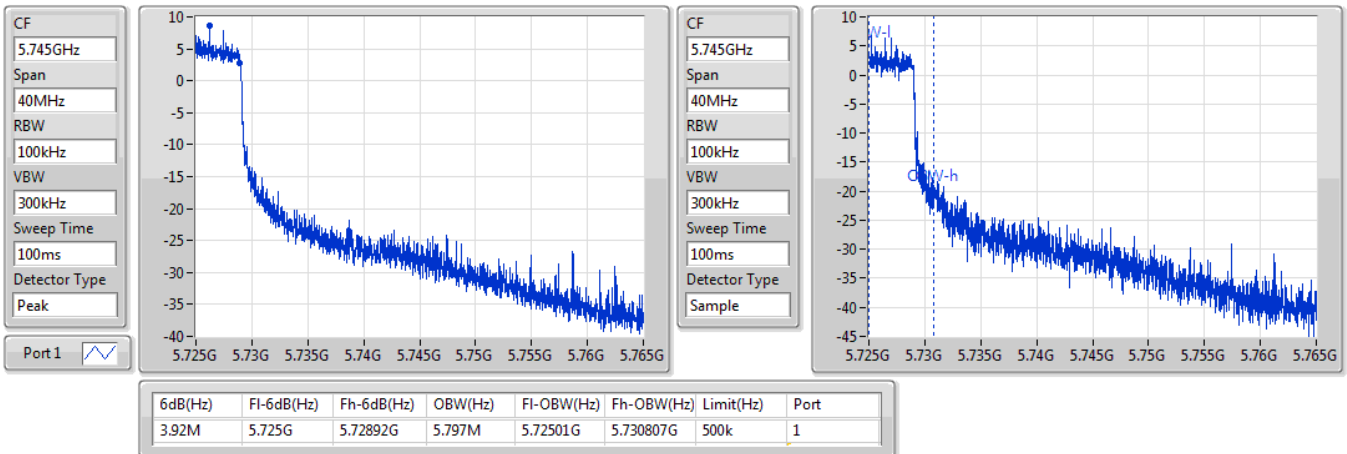

802.11ax HEW40_Nss1,(MCS0)_1TX
EBW
5710MHz Straddle 5.47-5.725GHz

03/08/2019

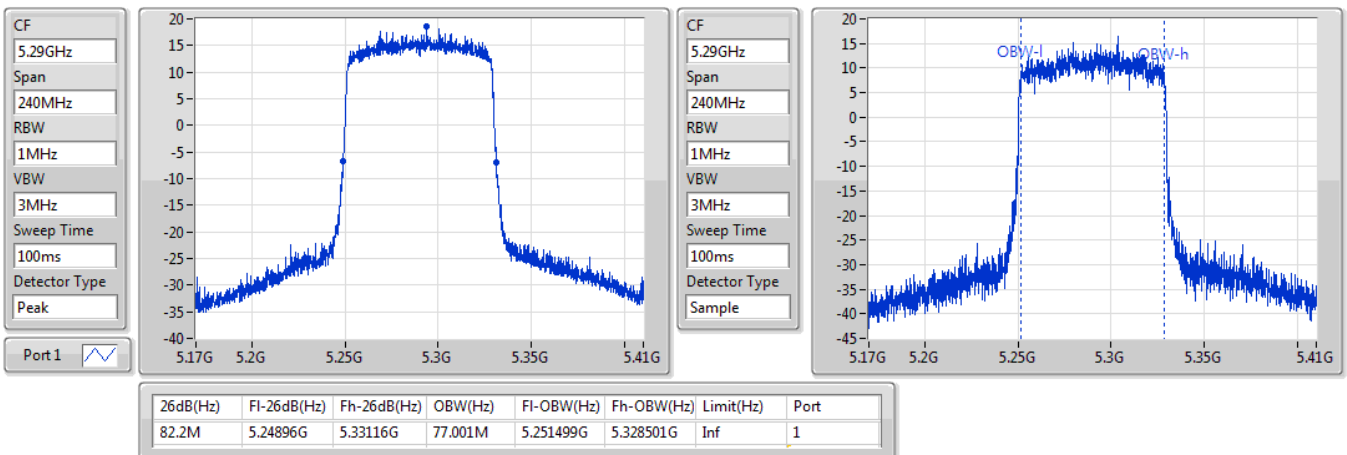


802.11ax HEW40_Nss1,(MCS0)_1TX
EBW
5710MHz Straddle 5.725-5.85GHz

03/08/2019

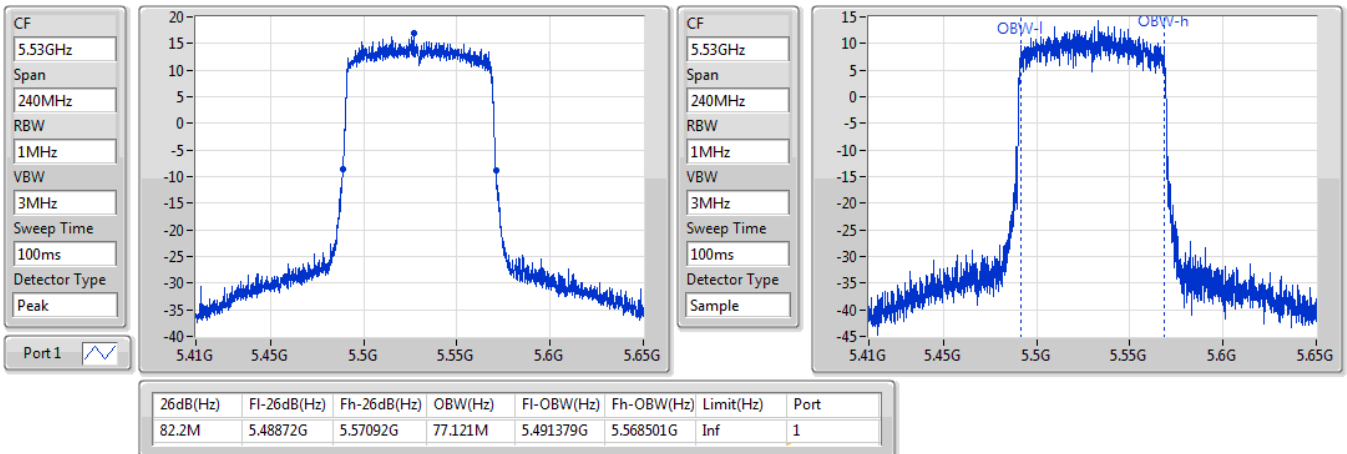

802.11ax HEW80_Nss1,(MCS0)_1TX
EBW
5290MHz

03/08/2019

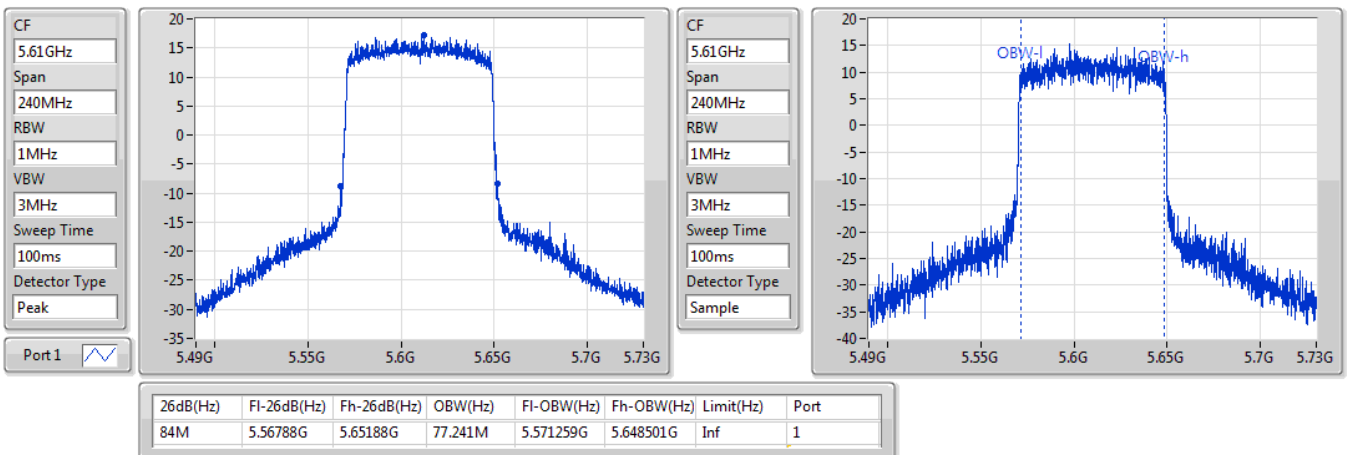


802.11ax HEW80_Nss1,(MCS0)_1TX
EBW
5530MHz

03/08/2019

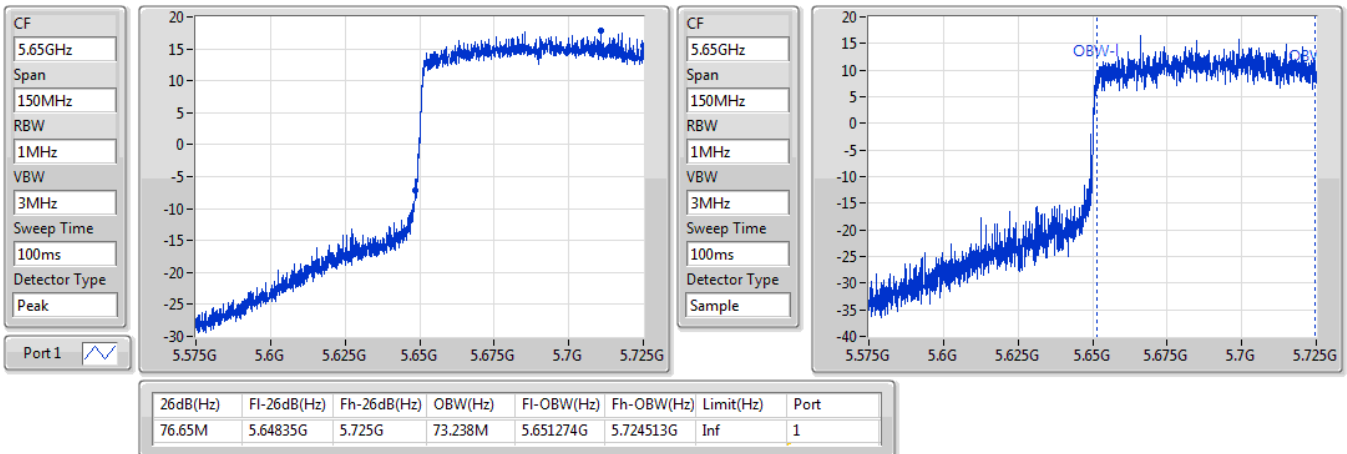

802.11ax HEW80_Nss1,(MCS0)_1TX
EBW
5610MHz

03/08/2019

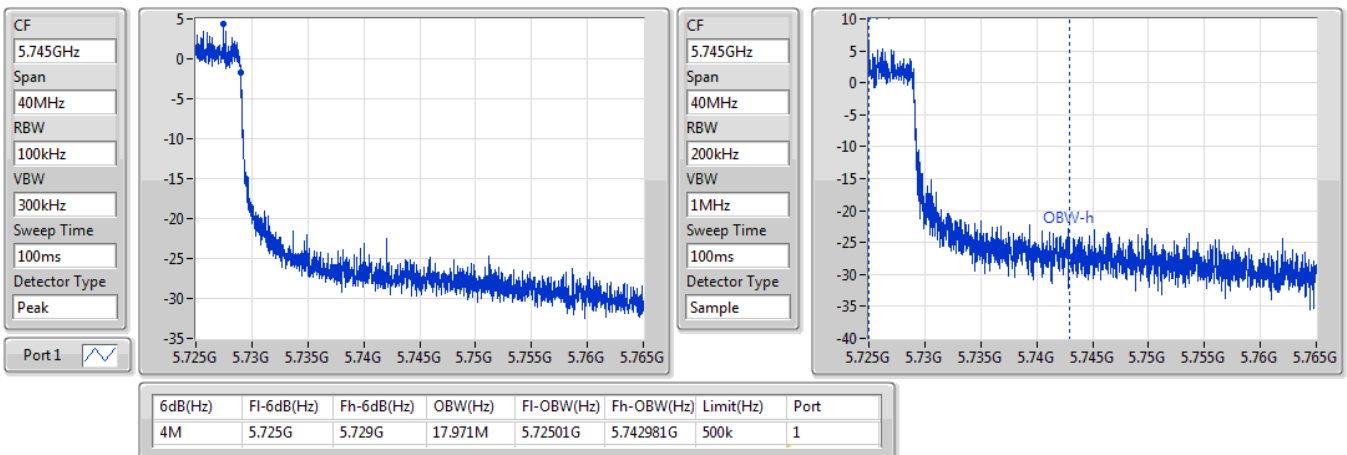


802.11ax HEW80_Nss1,(MCS0)_1TX
EBW
5690MHz Straddle 5.47-5.725GHz

03/08/2019


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

03/08/2019



**Summary**

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.25-5.35GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	20.73M	16.402M	16M4D1D	20.49M	16.342M
802.11ax HEW20_Nss1,(MCS0)_2TX	21.78M	18.951M	19M0D1D	21.57M	18.861M
802.11ax HEW40_Nss1,(MCS0)_2TX	41.22M	37.721M	37M7D1D	40.56M	37.661M
802.11ax HEW80_Nss1,(MCS0)_2TX	82.2M	77.121M	77M1D1D	82.08M	77.001M
5.47-5.725GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	20.73M	16.432M	16M4D1D	15.135M	13.208M
802.11ax HEW20_Nss1,(MCS0)_2TX	21.78M	18.921M	18M9D1D	15.57M	14.468M
802.11ax HEW40_Nss1,(MCS0)_2TX	41.34M	37.721M	37M7D1D	35.56M	33.758M
802.11ax HEW80_Nss1,(MCS0)_2TX	83.04M	77.121M	77M1D1D	76.125M	73.238M
5.725-5.85GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	3.1M	3.558M	3M56D1D	3.08M	3.458M
802.11ax HEW20_Nss1,(MCS0)_2TX	4.46M	4.498M	4M50D1D	4.4M	4.478M
802.11ax HEW40_Nss1,(MCS0)_2TX	4M	4.058M	4M06D1D	3.9M	4.058M
802.11ax HEW80_Nss1,(MCS0)_2TX	4.08M	4.118M	4M12D1D	3.94M	4.098M

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

Max-OBW = Maximum 99% occupied bandwidth;

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

Min-OBW = Minimum 99% occupied bandwidth;

**Result**

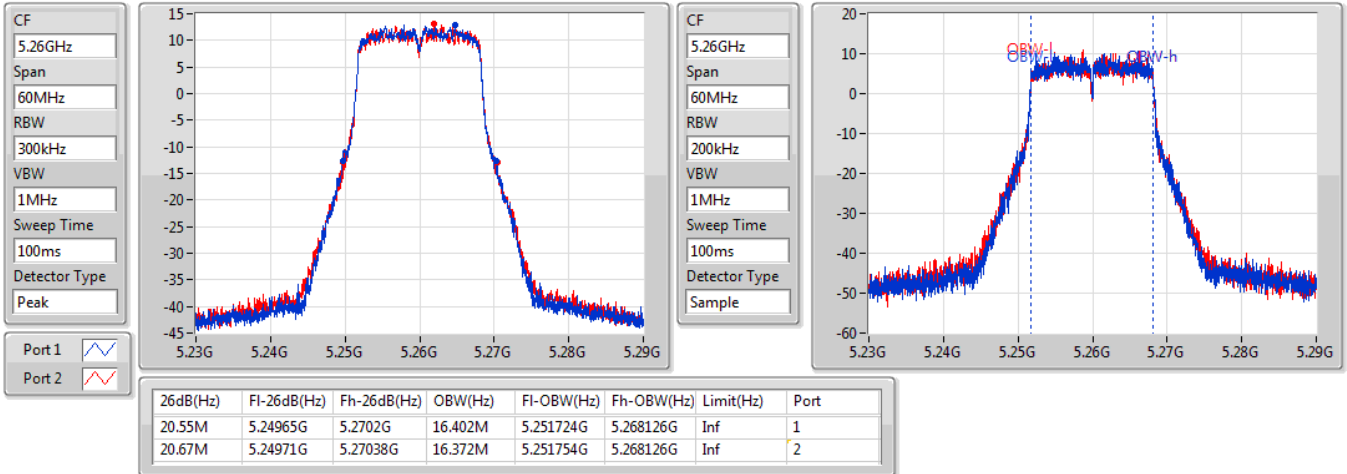
Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
5260MHz	Pass	Inf	20.55M	16.402M	20.67M	16.372M
5300MHz	Pass	Inf	20.49M	16.342M	20.73M	16.402M
5320MHz	Pass	Inf	20.49M	16.372M	20.67M	16.402M
5500MHz	Pass	Inf	20.37M	16.432M	20.49M	16.432M
5580MHz	Pass	Inf	20.31M	16.432M	20.67M	16.402M
5700MHz	Pass	Inf	20.52M	16.402M	20.73M	16.402M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	15.315M	13.208M	15.135M	13.253M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	3.1M	3.558M	3.08M	3.458M
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5260MHz	Pass	Inf	21.78M	18.921M	21.72M	18.891M
5300MHz	Pass	Inf	21.6M	18.891M	21.69M	18.951M
5320MHz	Pass	Inf	21.75M	18.861M	21.57M	18.921M
5500MHz	Pass	Inf	21.63M	18.891M	21.54M	18.861M
5580MHz	Pass	Inf	21.78M	18.921M	21.42M	18.921M
5700MHz	Pass	Inf	21.69M	18.921M	21.54M	18.921M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	15.57M	14.468M	15.975M	14.483M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	4.46M	4.478M	4.4M	4.498M
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5270MHz	Pass	Inf	40.92M	37.721M	41.22M	37.661M
5310MHz	Pass	Inf	40.56M	37.721M	41.04M	37.721M
5510MHz	Pass	Inf	41.22M	37.601M	41.04M	37.721M
5550MHz	Pass	Inf	40.92M	37.661M	41.22M	37.721M
5670MHz	Pass	Inf	41.28M	37.661M	41.34M	37.721M
5710MHz Straddle 5.47-5.725GHz	Pass	Inf	35.56M	33.793M	35.595M	33.758M
5710MHz Straddle 5.725-5.85GHz	Pass	500k	3.9M	4.058M	4M	4.058M
802.11ax HEW80_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5290MHz	Pass	Inf	82.08M	77.001M	82.2M	77.121M
5530MHz	Pass	Inf	82.08M	77.001M	83.04M	77.121M
5610MHz	Pass	Inf	82.8M	77.121M	82.92M	77.001M
5690MHz Straddle 5.47-5.725GHz	Pass	Inf	76.125M	73.238M	76.725M	73.238M
5690MHz Straddle 5.725-5.85GHz	Pass	500k	4.08M	4.098M	3.94M	4.118M

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

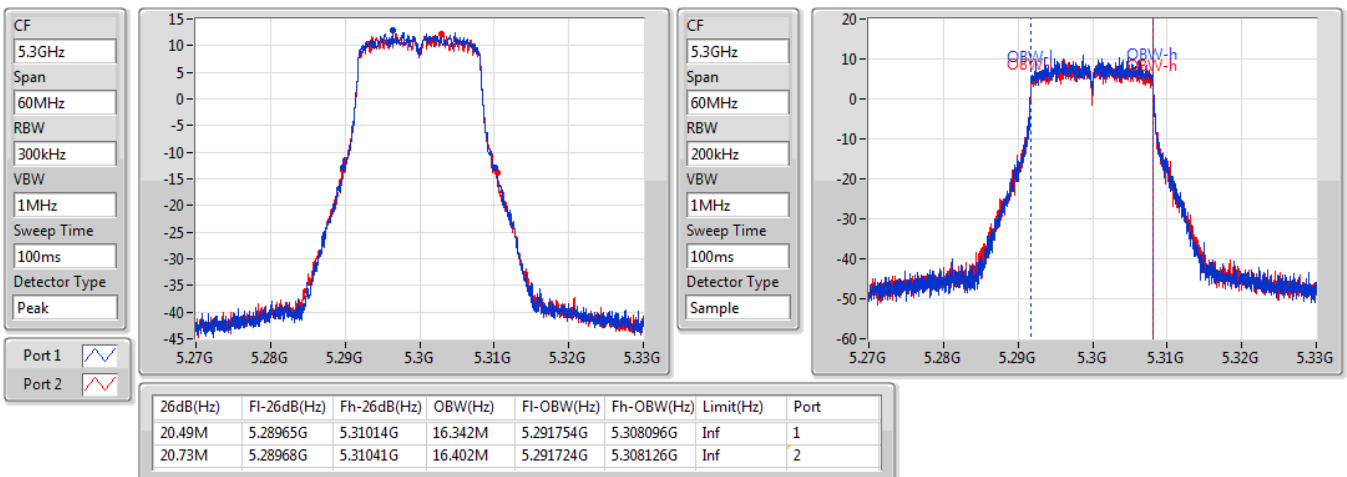
Port X-OBW = Port X 99% occupied bandwidth;

802.11a_Nss1,(6Mbps)_2TX
EBW
5260MHz

03/08/2019

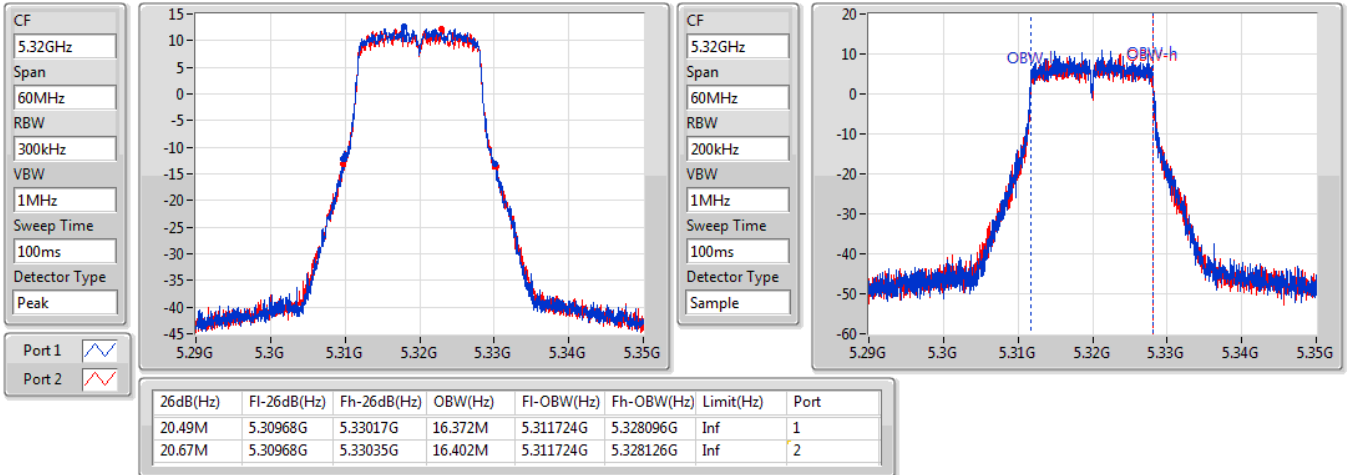

802.11a_Nss1,(6Mbps)_2TX
EBW
5300MHz

03/08/2019

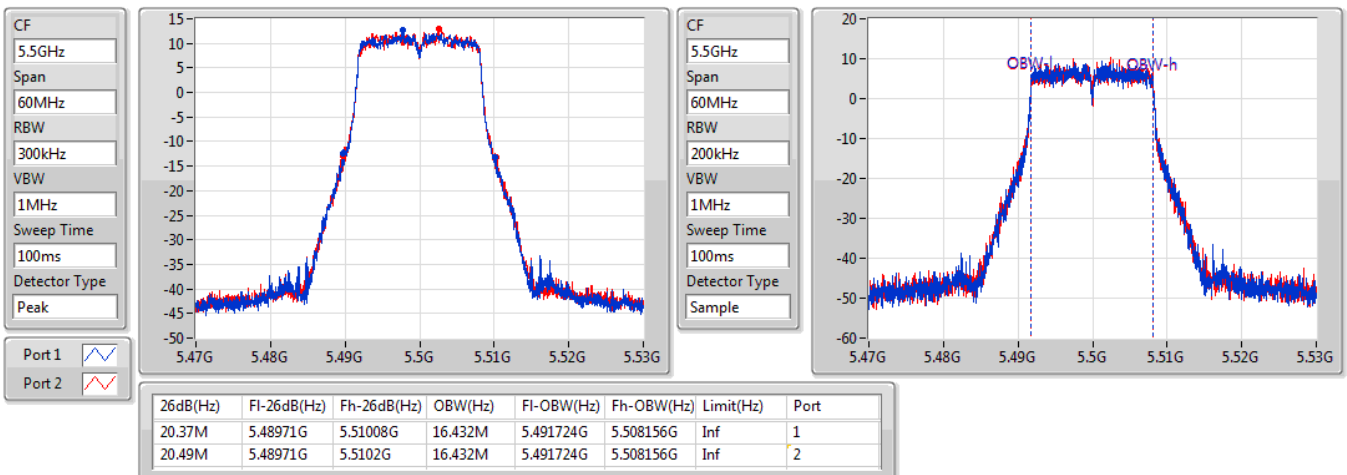


802.11a_Nss1,(6Mbps)_2TX
EBW
5320MHz

03/08/2019

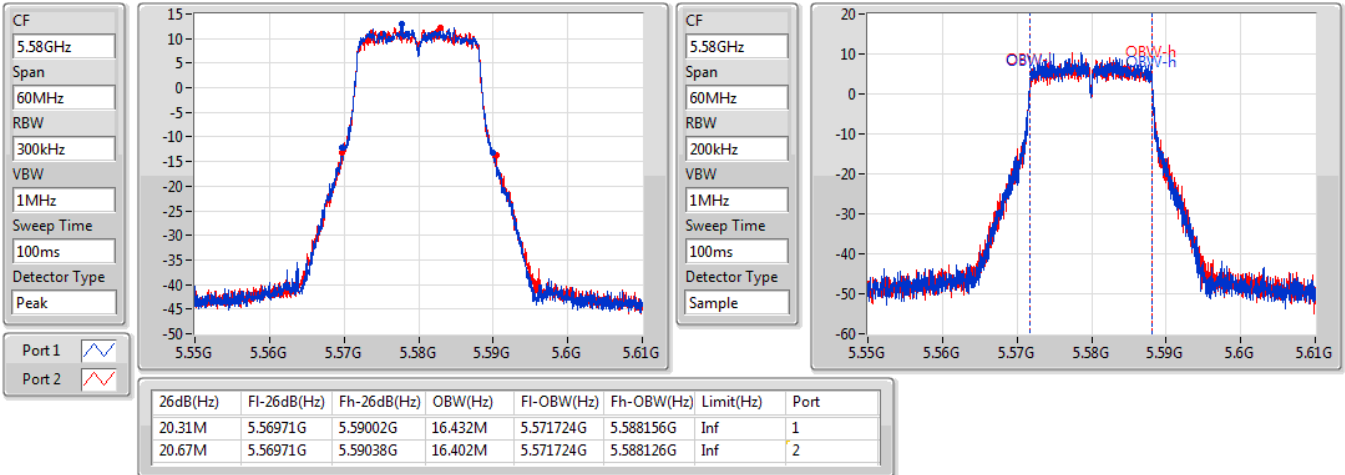

802.11a_Nss1,(6Mbps)_2TX
EBW
5500MHz

03/08/2019

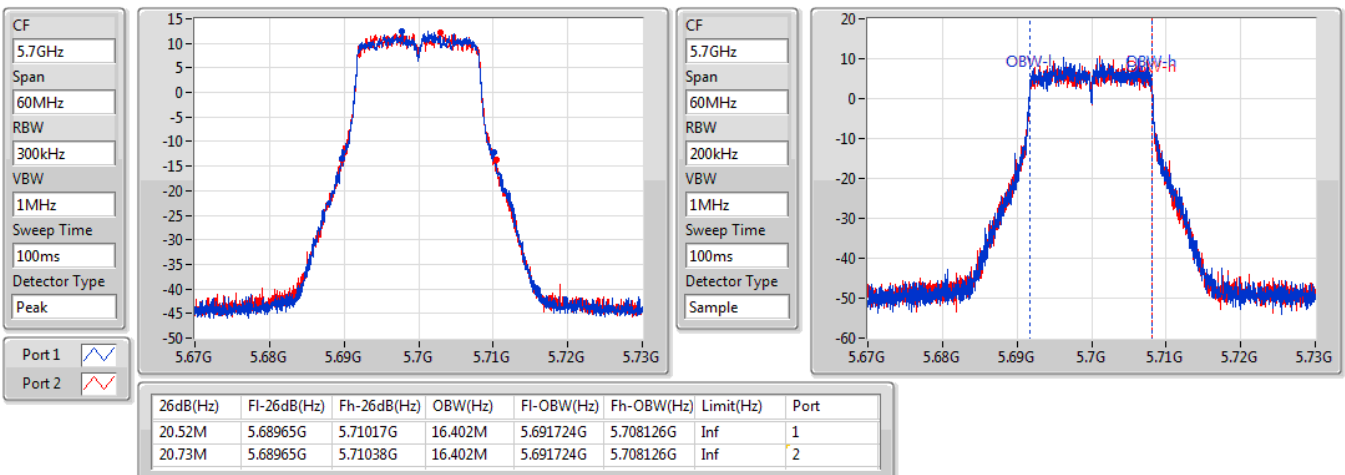


802.11a_Nss1,(6Mbps)_2TX
EBW
5580MHz

03/08/2019

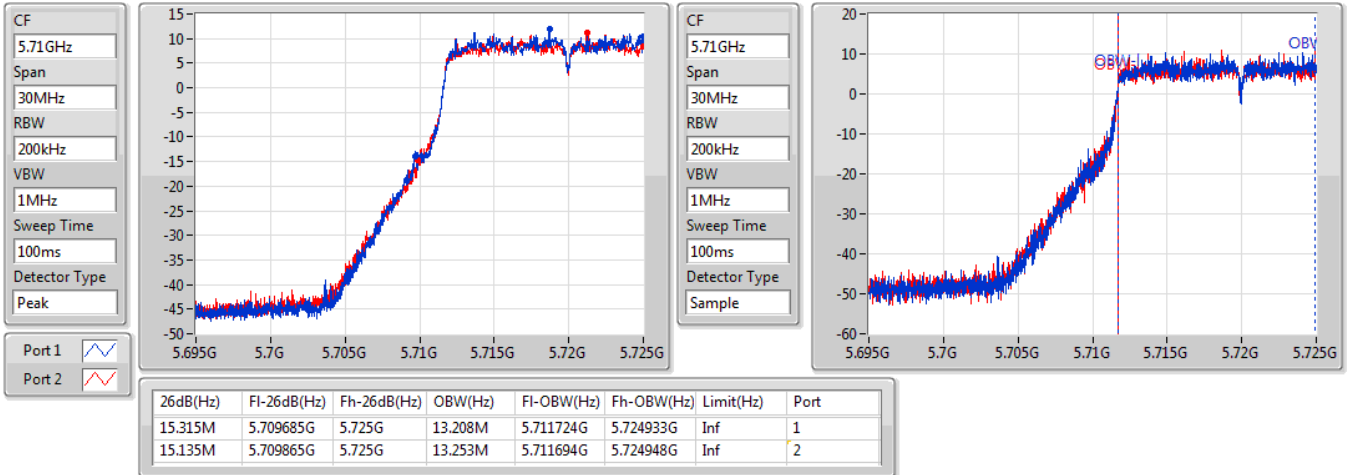

802.11a_Nss1,(6Mbps)_2TX
EBW
5700MHz

03/08/2019

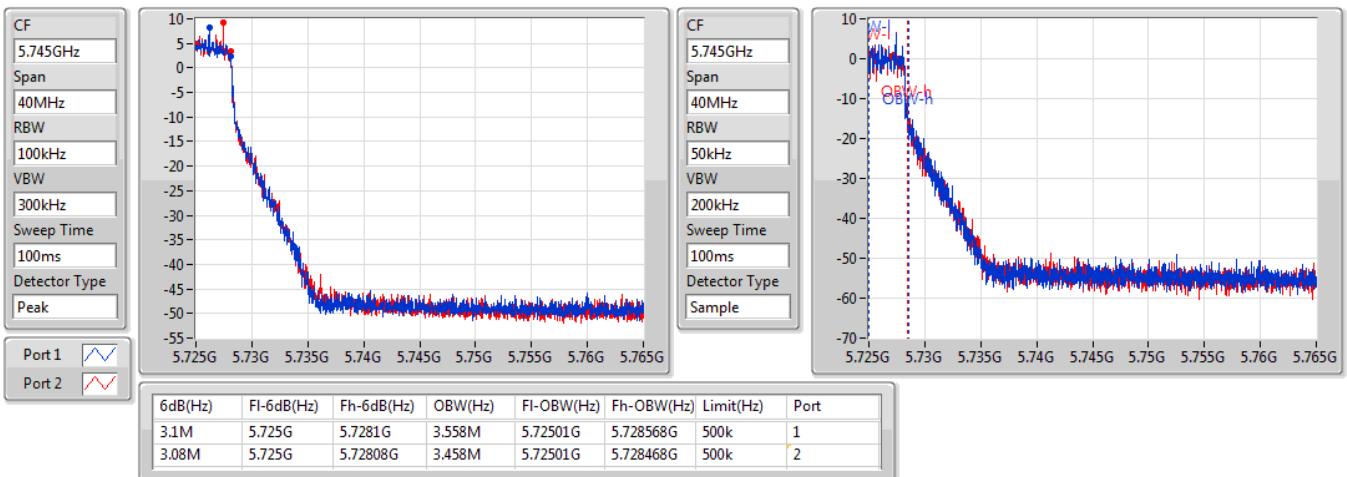


802.11a_Nss1,(6Mbps)_2TX
EBW
5720MHz Straddle 5.47-5.725GHz

03/08/2019

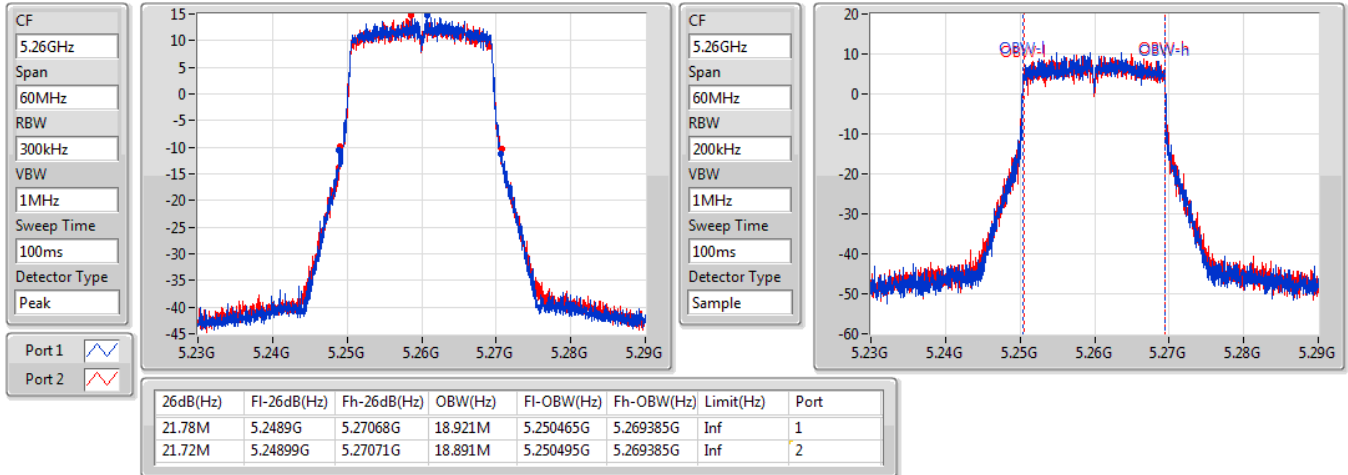

802.11a_Nss1,(6Mbps)_2TX
EBW
5720MHz Straddle 5.725-5.85GHz

03/08/2019

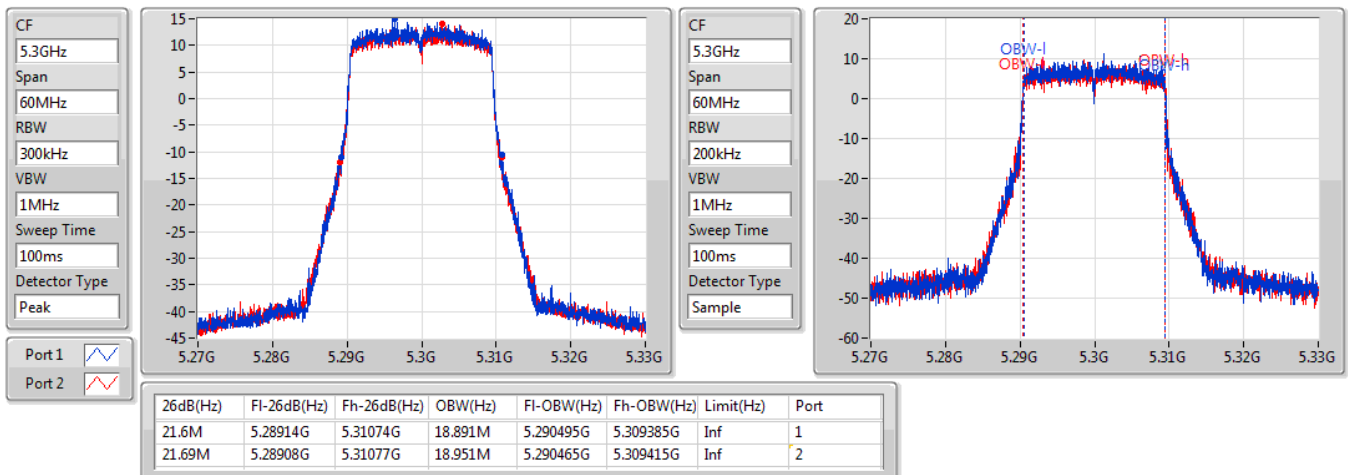


802.11ax HEW20_Nss1,(MCS0)_2TX
EBW
5260MHz

03/08/2019

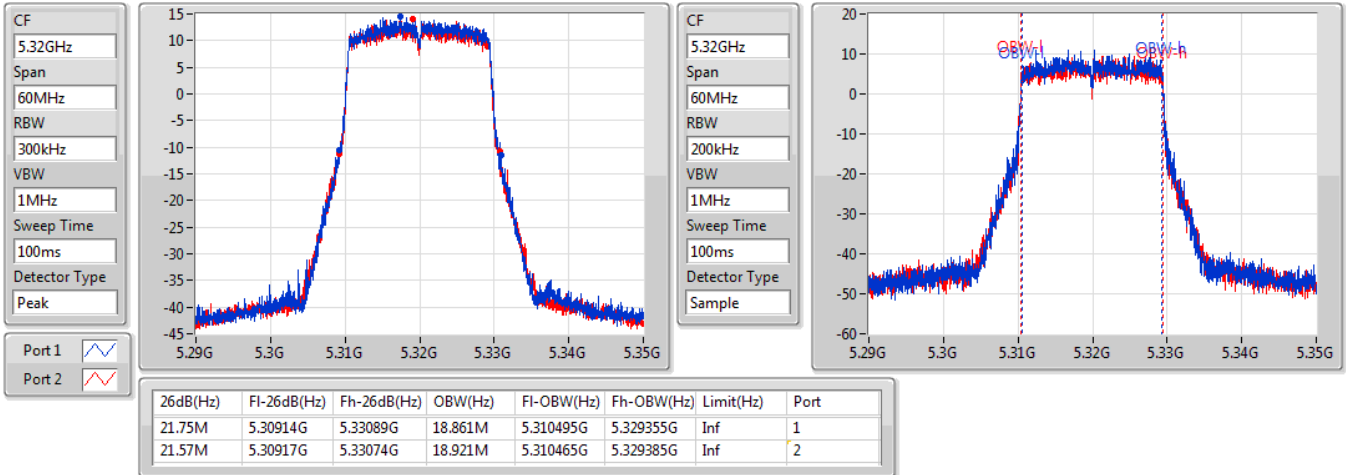

802.11ax HEW20_Nss1,(MCS0)_2TX
EBW
5300MHz

03/08/2019

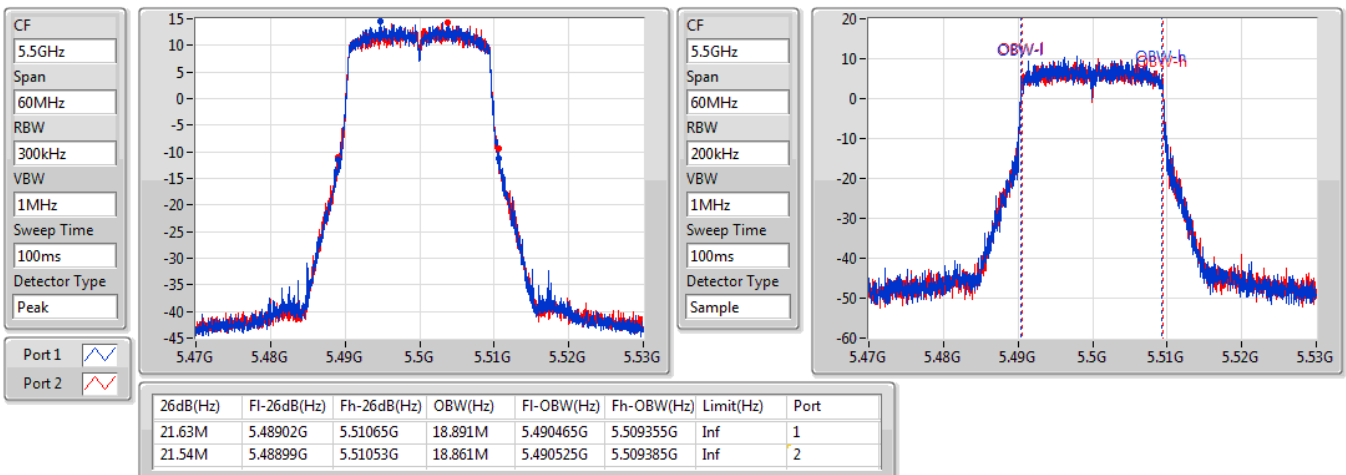


802.11ax HEW20_Nss1,(MCS0)_2TX
EBW
5320MHz

03/08/2019

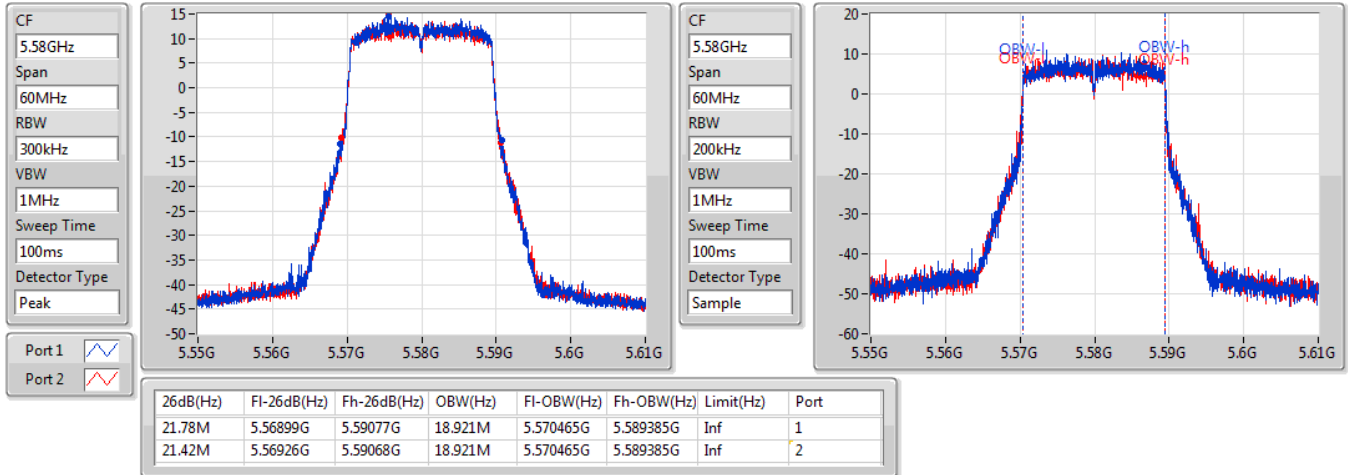

802.11ax HEW20_Nss1,(MCS0)_2TX
EBW
5500MHz

03/08/2019

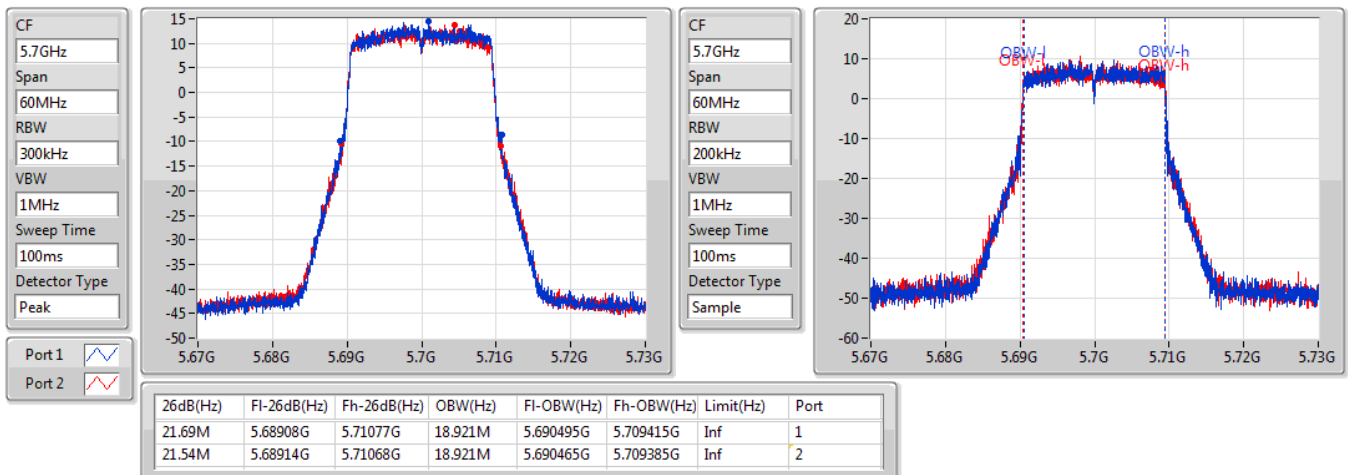


802.11ax HEW20_Nss1,(MCS0)_2TX
EBW
5580MHz

03/08/2019

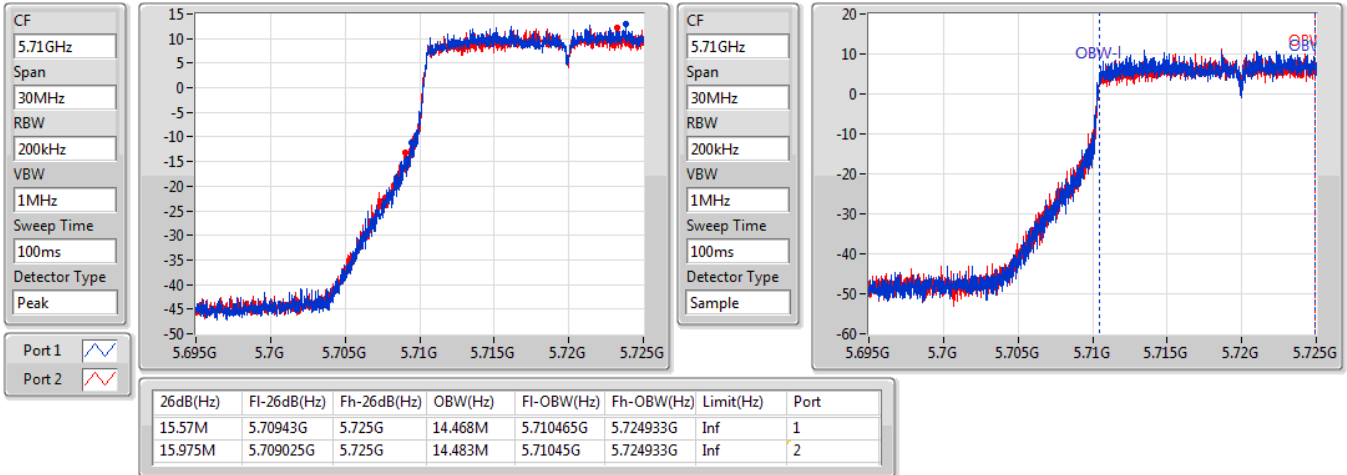

802.11ax HEW20_Nss1,(MCS0)_2TX
EBW
5700MHz

03/08/2019

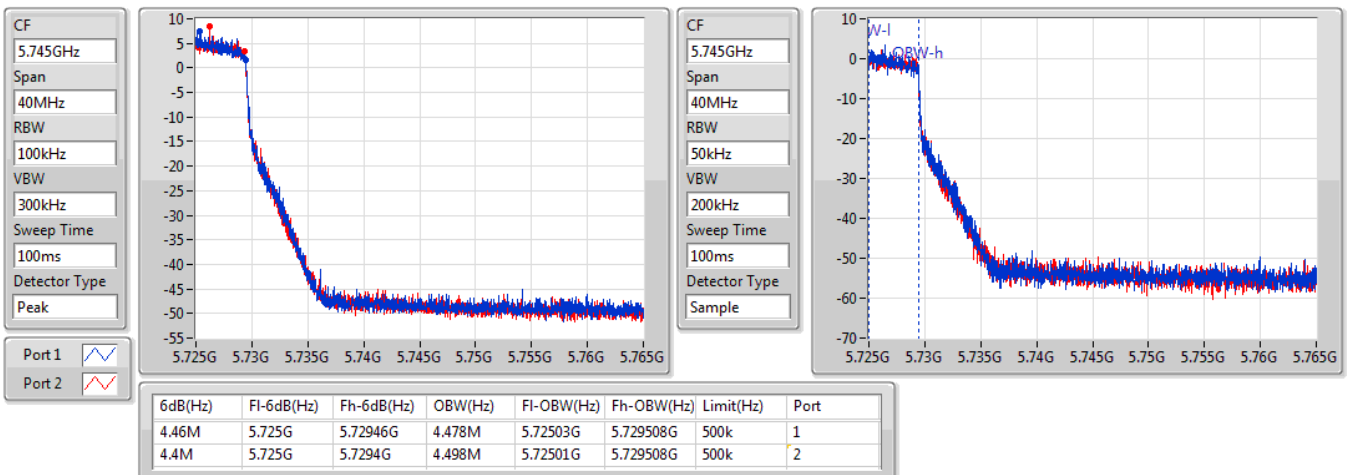


802.11ax HEW20_Nss1,(MCS0)_2TX
EBW
5720MHz Straddle 5.47-5.725GHz

03/08/2019

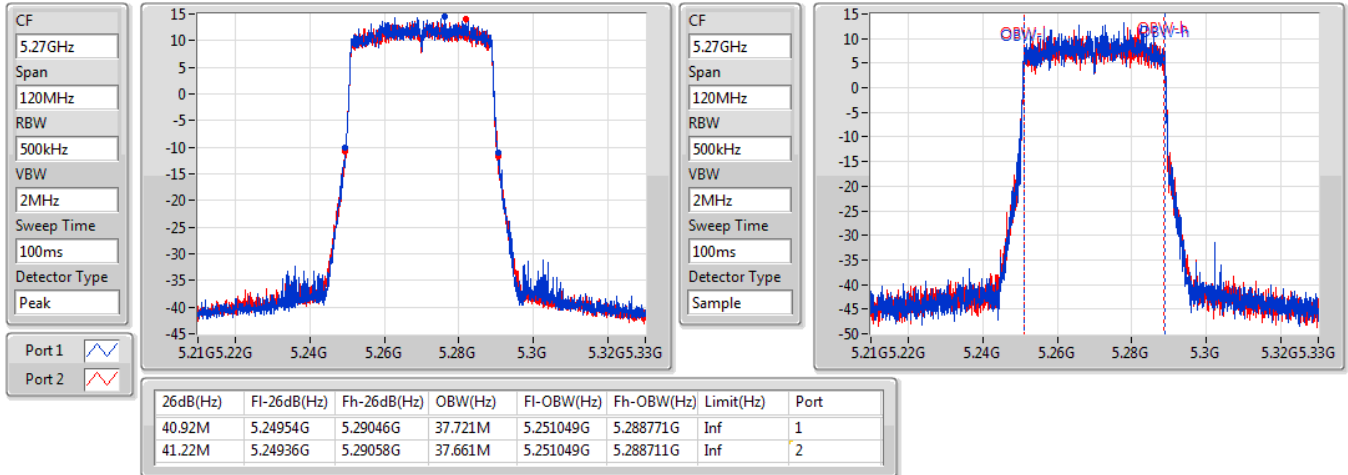

802.11ax HEW20_Nss1,(MCS0)_2TX
EBW
5720MHz Straddle 5.725-5.85GHz

03/08/2019

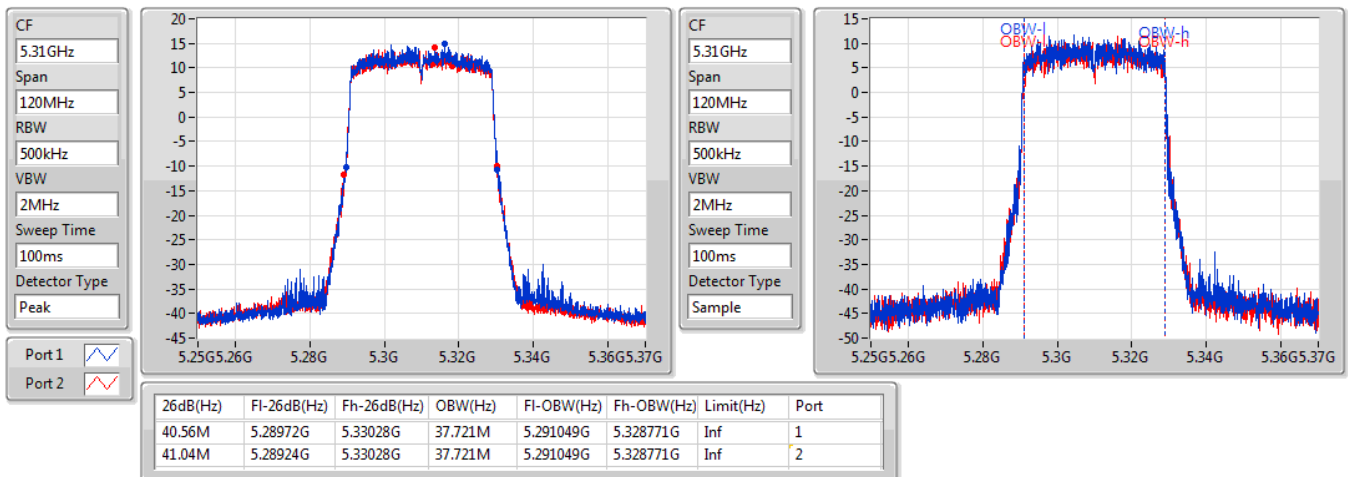


802.11ax HEW40_Nss1,(MCS0)_2TX
EBW
5270MHz

03/08/2019

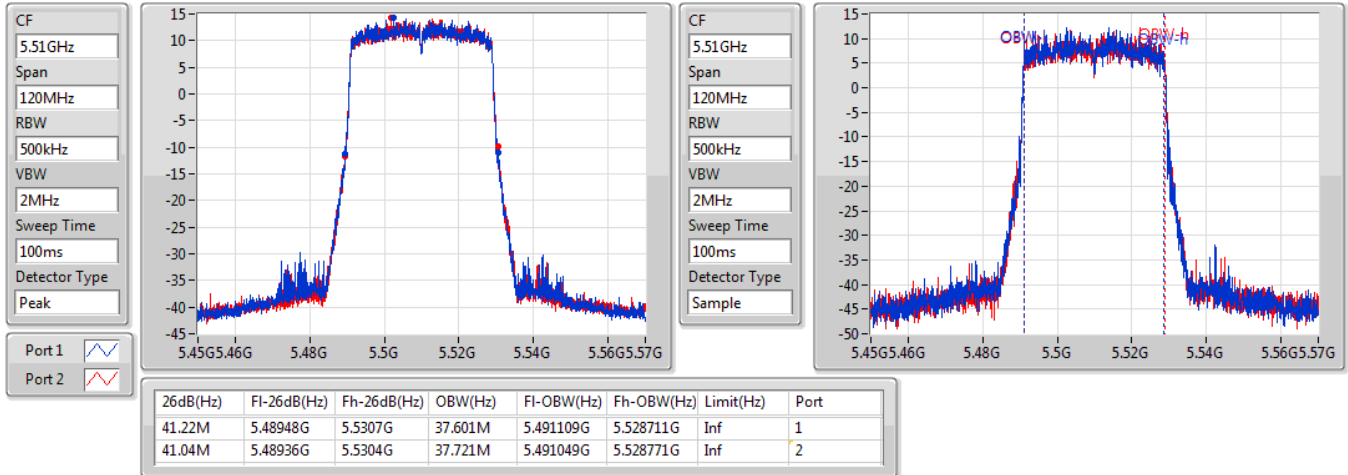

802.11ax HEW40_Nss1,(MCS0)_2TX
EBW
5310MHz

03/08/2019

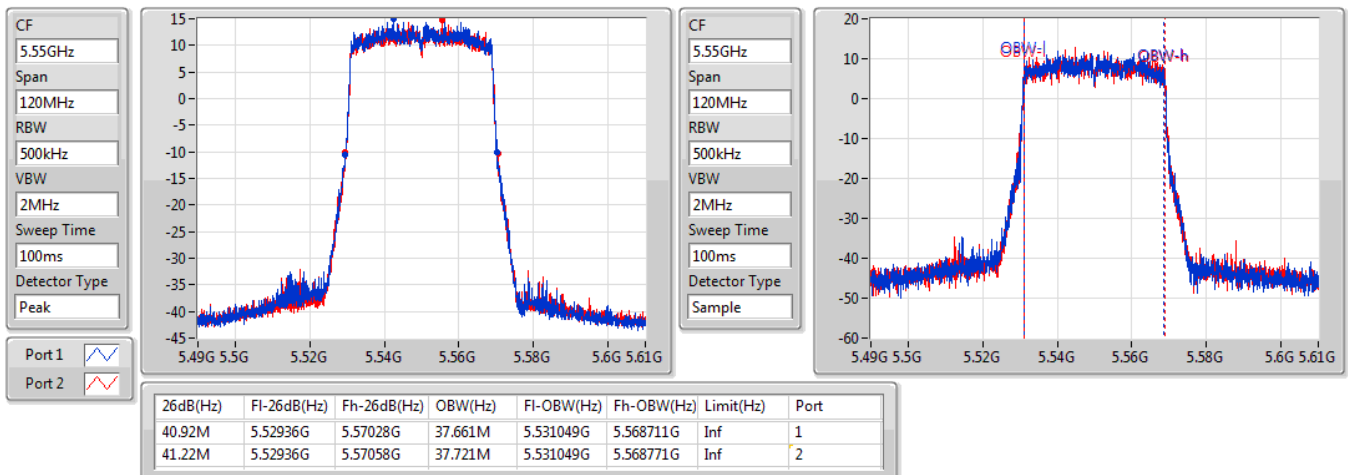


802.11ax HEW40_Nss1,(MCS0)_2TX
EBW
5510MHz

03/08/2019

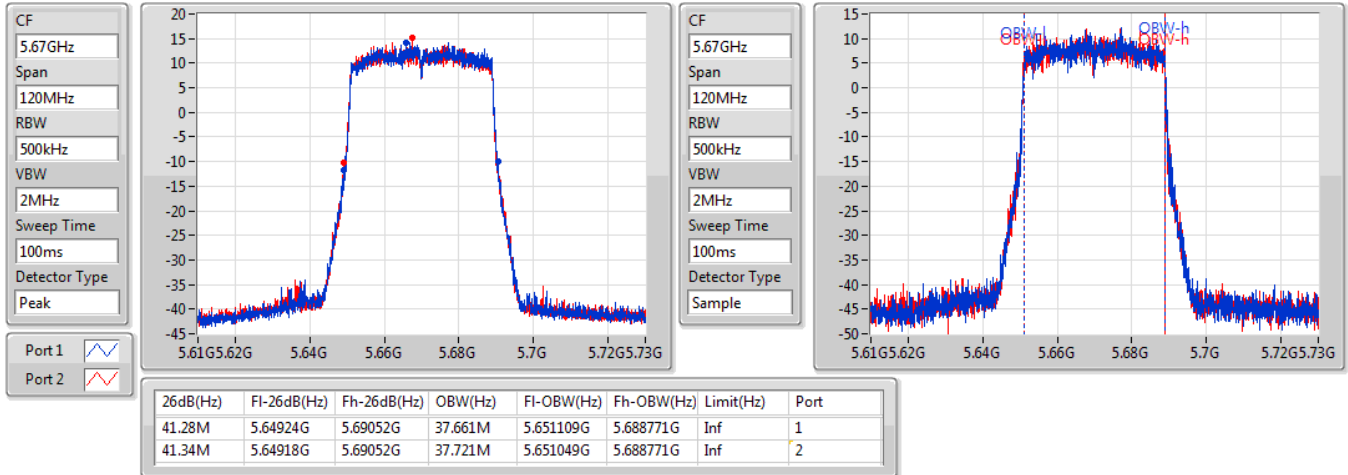

802.11ax HEW40_Nss1,(MCS0)_2TX
EBW
5550MHz

03/08/2019

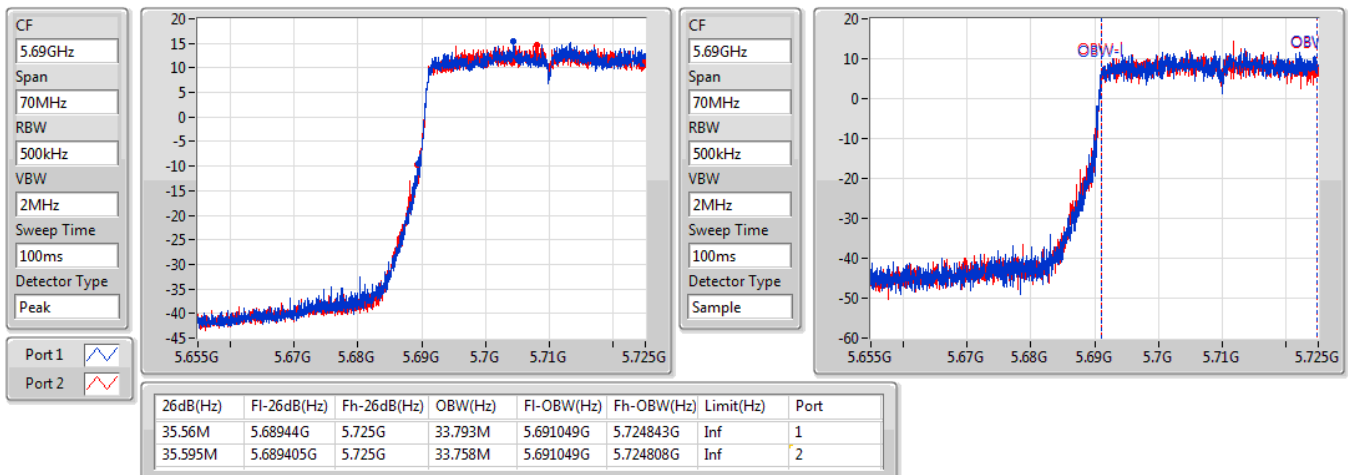


802.11ax HEW40_Nss1,(MCS0)_2TX
EBW
5670MHz

03/08/2019

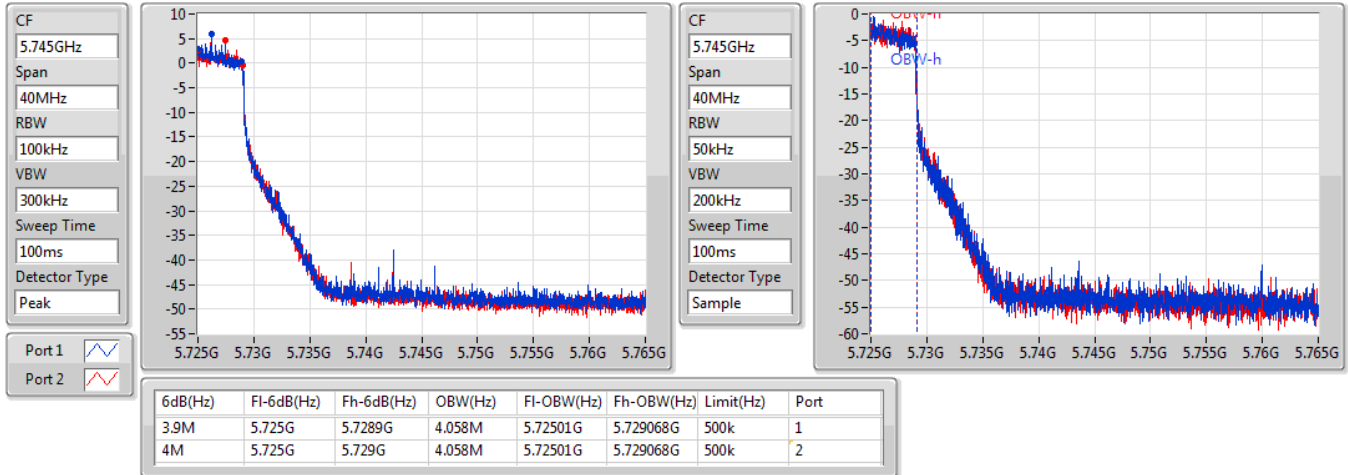

802.11ax HEW40_Nss1,(MCS0)_2TX
EBW
5710MHz Straddle 5.47-5.725GHz

03/08/2019

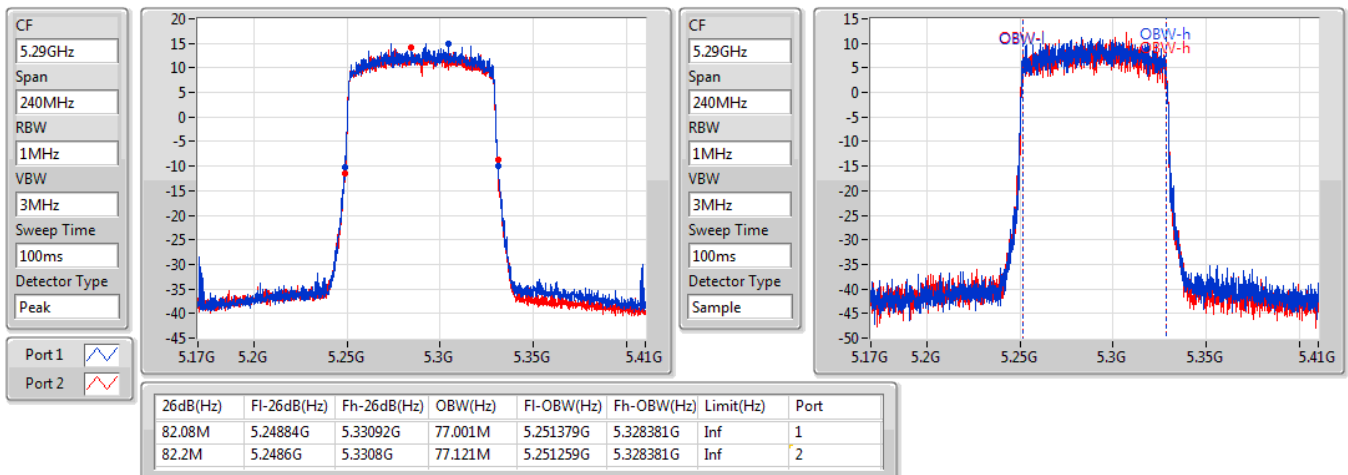


802.11ax HEW40_Nss1,(MCS0)_2TX
EBW
5710MHz Straddle 5.725-5.85GHz

03/08/2019

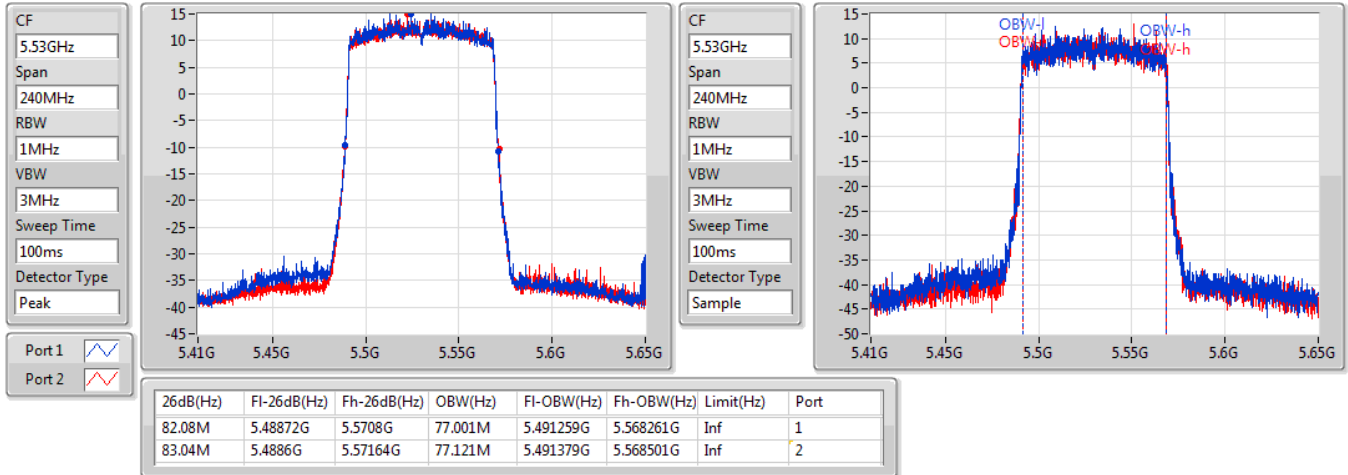

802.11ax HEW80_Nss1,(MCS0)_2TX
EBW
5290MHz

03/08/2019

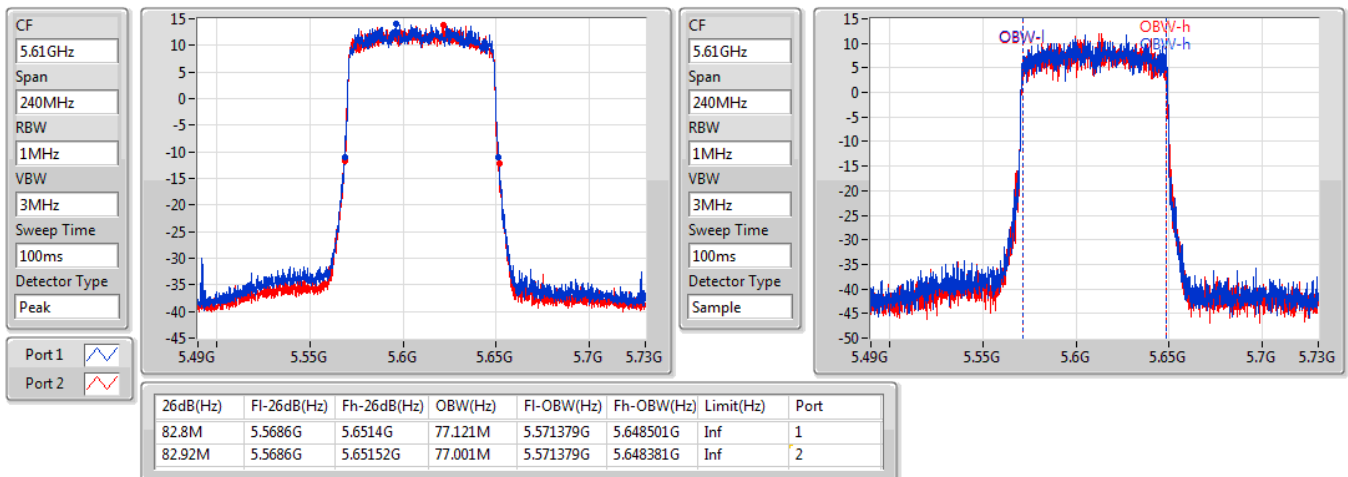


802.11ax HEW80_Nss1,(MCS0)_2TX
EBW
5530MHz

03/08/2019

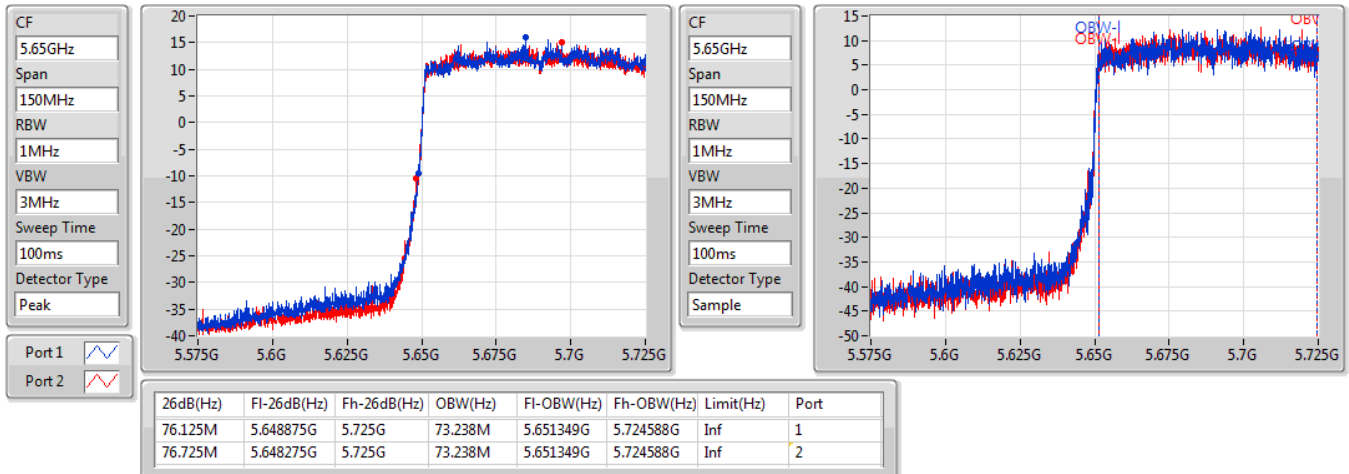

802.11ax HEW80_Nss1,(MCS0)_2TX
EBW
5610MHz

03/08/2019

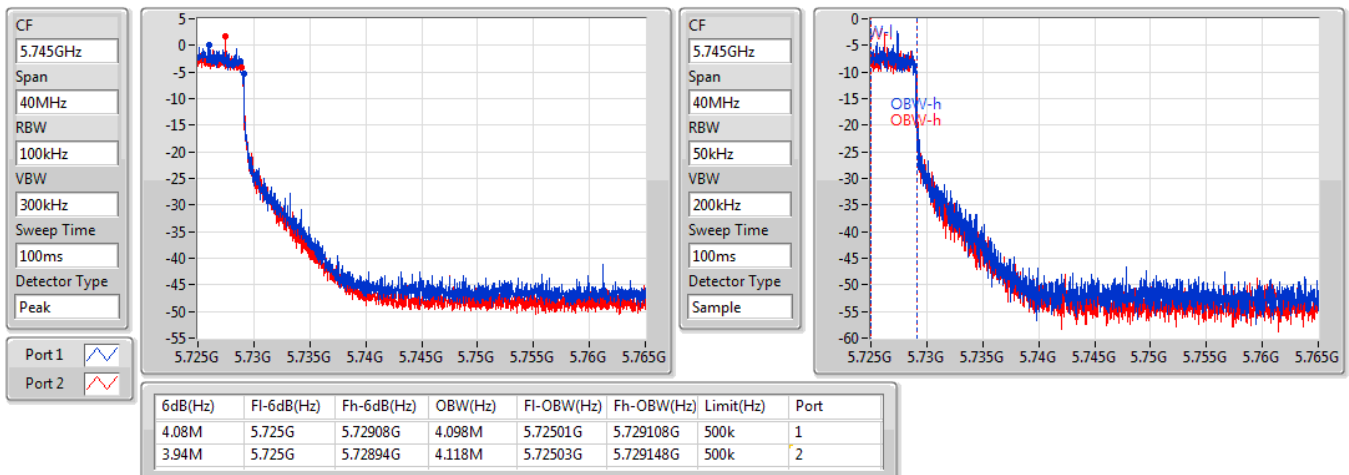


802.11ax HEW80_Nss1,(MCS0)_2TX
EBW
5690MHz Straddle 5.47-5.725GHz

03/08/2019


802.11ax HEW80_Nss1,(MCS0)_2TX
EBW
5690MHz Straddle 5.725-5.85GHz

03/08/2019



Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.25-5.35GHz	-	-	-	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	21.93M	18.921M	18M9D1D	21.45M	18.861M
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	41.34M	37.721M	37M7D1D	40.56M	37.661M
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	81.48M	77.121M	77M1D1D	81.12M	77.001M
5.47-5.725GHz	-	-	-	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	21.84M	18.921M	18M9D1D	15.75M	14.468M
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	41.34M	37.781M	37M8D1D	35.21M	33.723M
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	82.32M	77.121M	77M1D1D	75.6M	73.088M
5.725-5.85GHz	-	-	-	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	4.46M	4.498M	4M50D1D	4.34M	4.498M
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	4.04M	4.058M	4M06D1D	3.98M	4.058M
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	4M	4.158M	4M16D1D	3.86M	4.098M

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

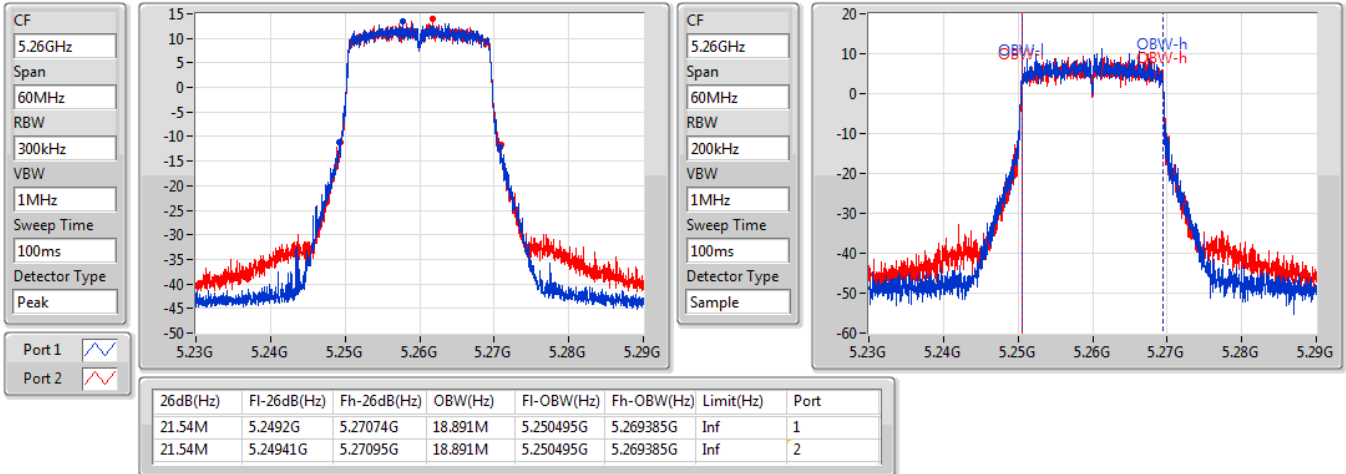
Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5260MHz	Pass	Inf	21.54M	18.891M	21.54M	18.891M
5300MHz	Pass	Inf	21.45M	18.891M	21.63M	18.861M
5320MHz	Pass	Inf	21.93M	18.891M	21.6M	18.921M
5500MHz	Pass	Inf	21.51M	18.891M	21.63M	18.891M
5580MHz	Pass	Inf	21.84M	18.891M	21.6M	18.921M
5700MHz	Pass	Inf	21.69M	18.861M	21.66M	18.891M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	15.75M	14.468M	15.855M	14.468M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	4.46M	4.498M	4.34M	4.498M
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5270MHz	Pass	Inf	41.34M	37.661M	40.8M	37.721M
5310MHz	Pass	Inf	40.56M	37.721M	40.92M	37.661M
5510MHz	Pass	Inf	41.22M	37.781M	40.86M	37.601M
5550MHz	Pass	Inf	41.34M	37.781M	40.86M	37.661M
5670MHz	Pass	Inf	41.22M	37.781M	40.86M	37.661M
5710MHz Straddle 5.47-5.725GHz	Pass	Inf	35.42M	33.828M	35.21M	33.723M
5710MHz Straddle 5.725-5.85GHz	Pass	500k	3.98M	4.058M	4.04M	4.058M
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5290MHz	Pass	Inf	81.48M	77.121M	81.12M	77.001M
5530MHz	Pass	Inf	81.12M	77.121M	82.32M	77.001M
5610MHz	Pass	Inf	81.6M	77.121M	81M	76.882M
5690MHz Straddle 5.47-5.725GHz	Pass	Inf	75.6M	73.163M	75.6M	73.088M
5690MHz Straddle 5.725-5.85GHz	Pass	500k	4M	4.098M	3.86M	4.158M

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

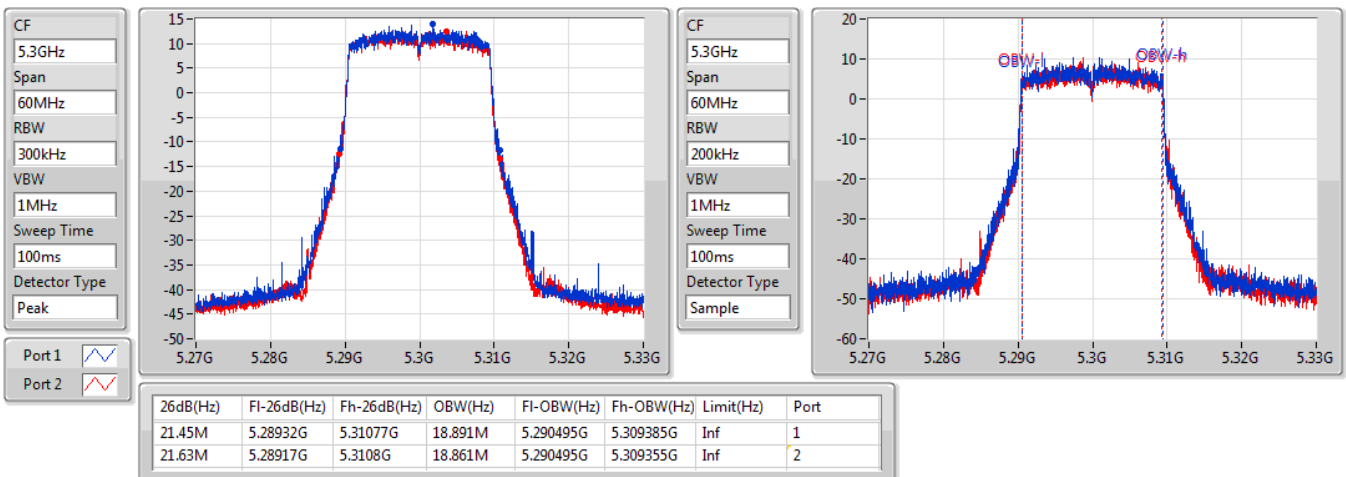
Port X-OBW = Port X 99% occupied bandwidth;

802.11ax HEW20-BF_Nss1,(MCS0)_2TX
EBW
5260MHz

08/08/2019

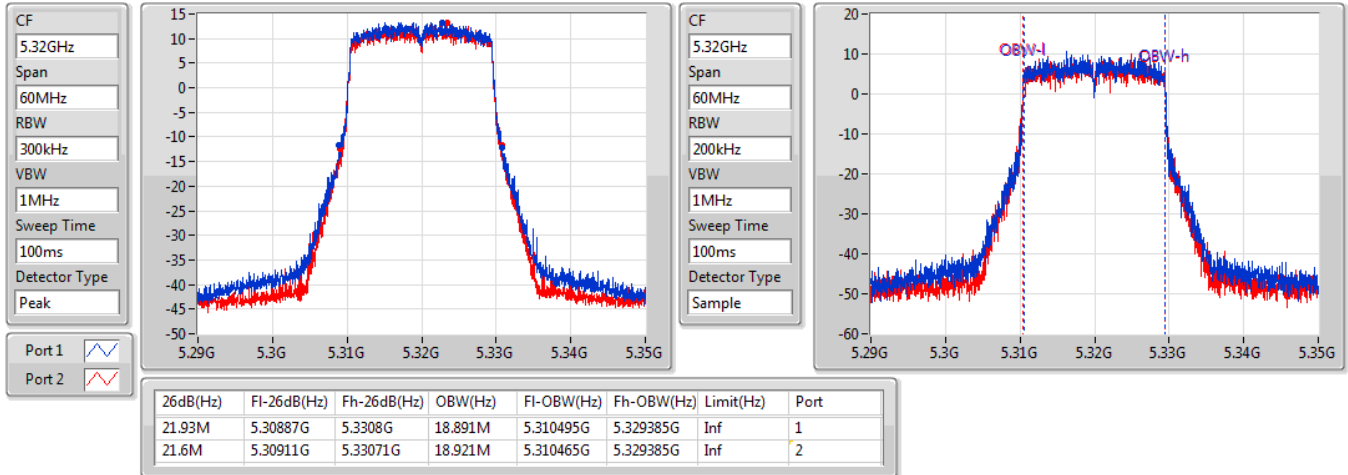

802.11ax HEW20-BF_Nss1,(MCS0)_2TX
EBW
5300MHz

08/08/2019

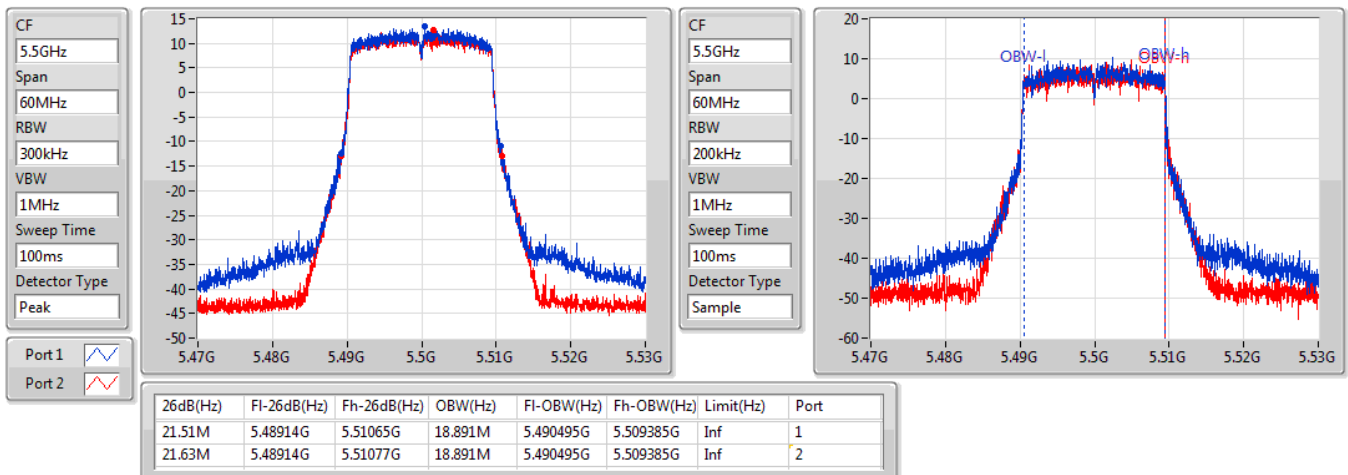


802.11ax HEW20-BF_Nss1,(MCS0)_2TX
EBW
5320MHz

08/08/2019

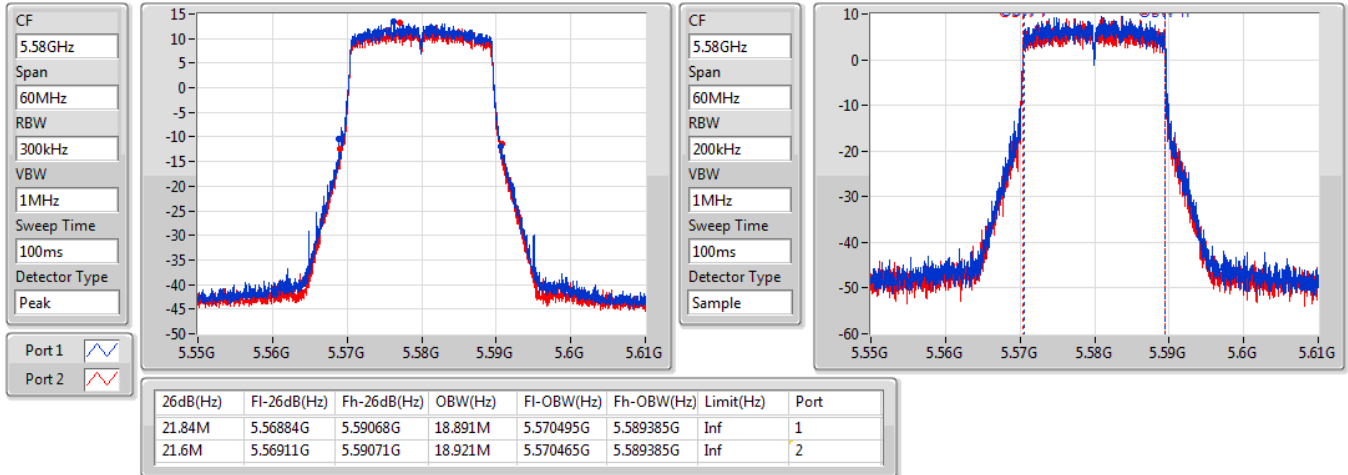

802.11ax HEW20-BF_Nss1,(MCS0)_2TX
EBW
5500MHz

08/08/2019

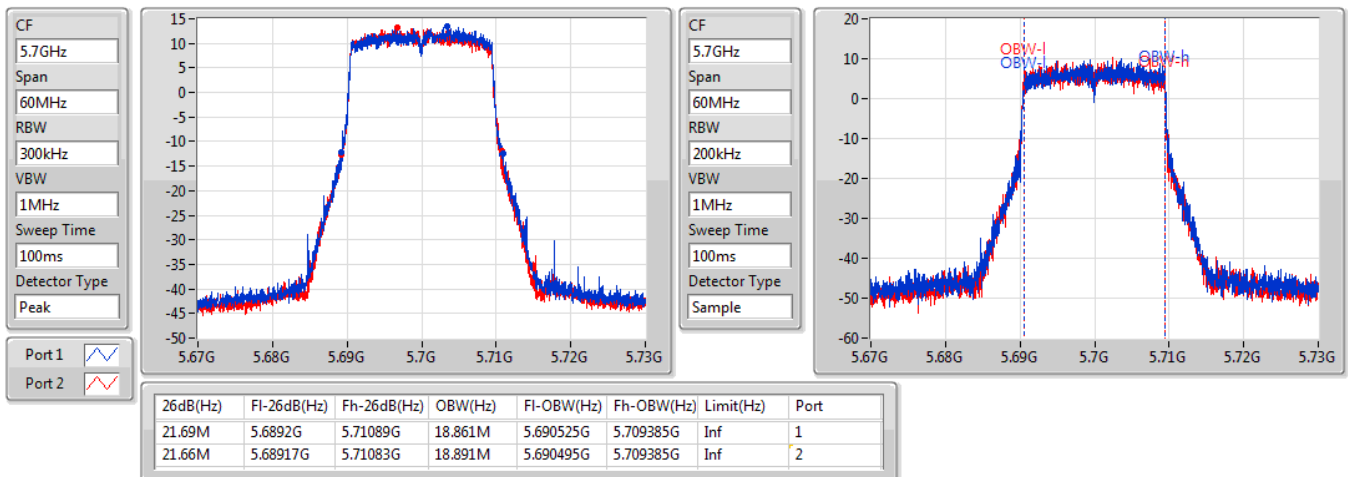


802.11ax HEW20-BF_Nss1,(MCS0)_2TX
EBW
5580MHz

08/08/2019

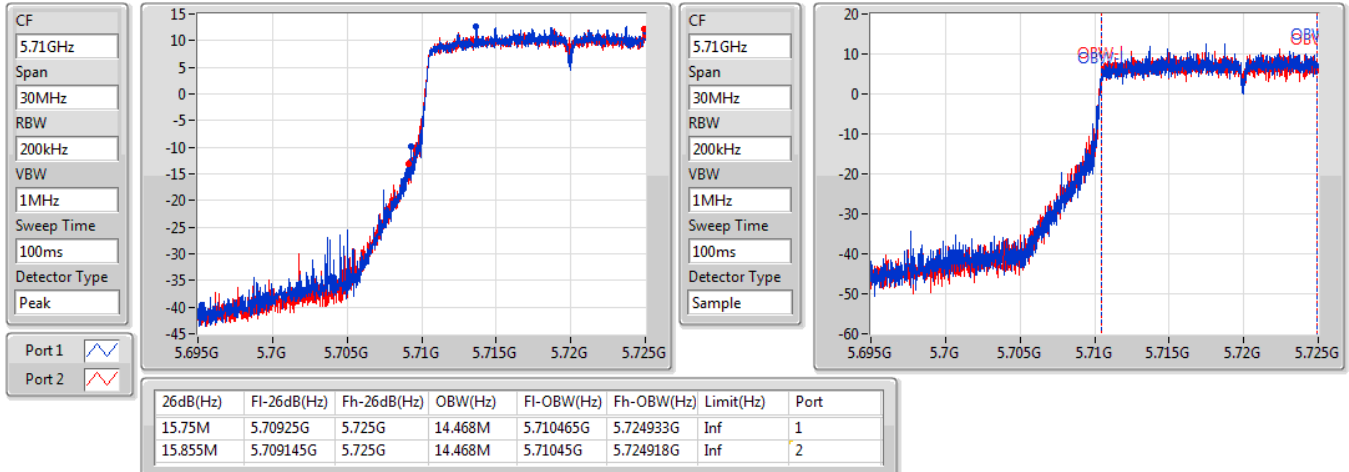

802.11ax HEW20-BF_Nss1,(MCS0)_2TX
EBW
5700MHz

08/08/2019

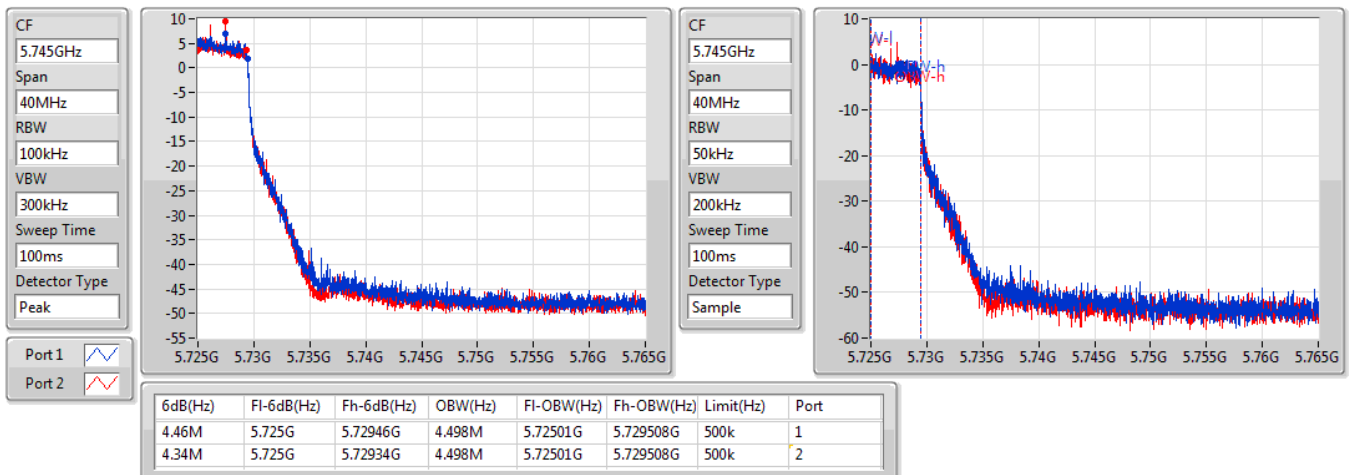


802.11ax HEW20-BF_Nss1,(MCS0)_2TX
EBW
5720MHz Straddle 5.47-5.725GHz

08/08/2019

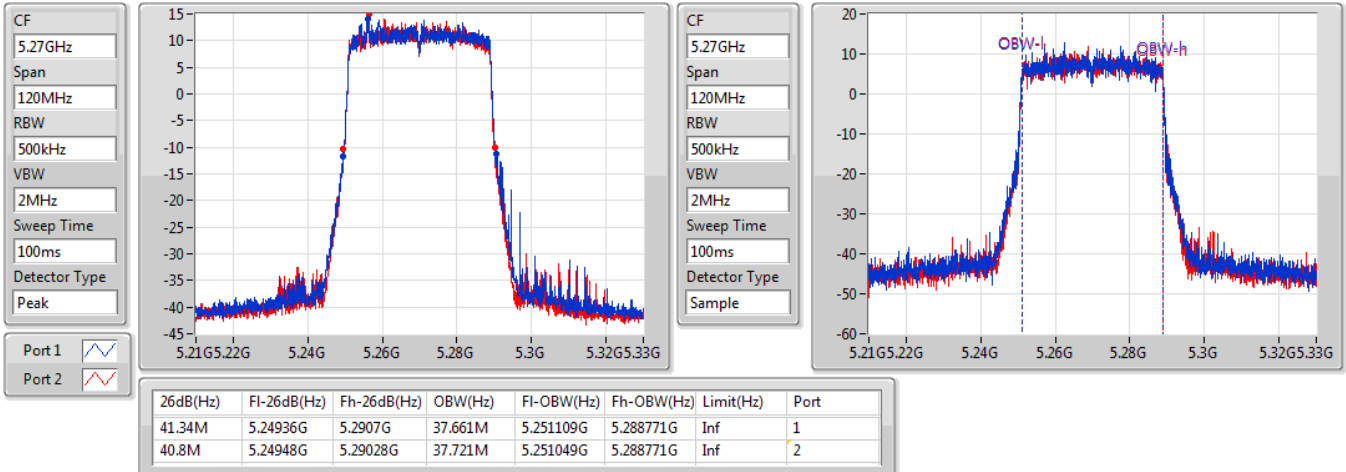

802.11ax HEW20-BF_Nss1,(MCS0)_2TX
EBW
5720MHz Straddle 5.725-5.85GHz

08/08/2019

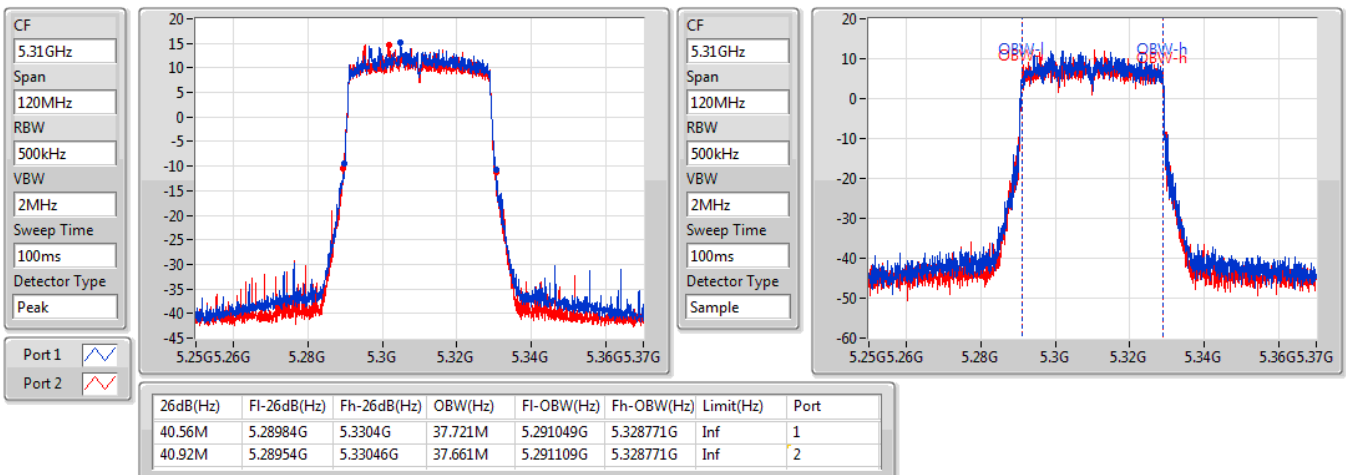


802.11ax HEW40-BF_Nss1,(MCS0)_2TX
EBW
5270MHz

08/08/2019

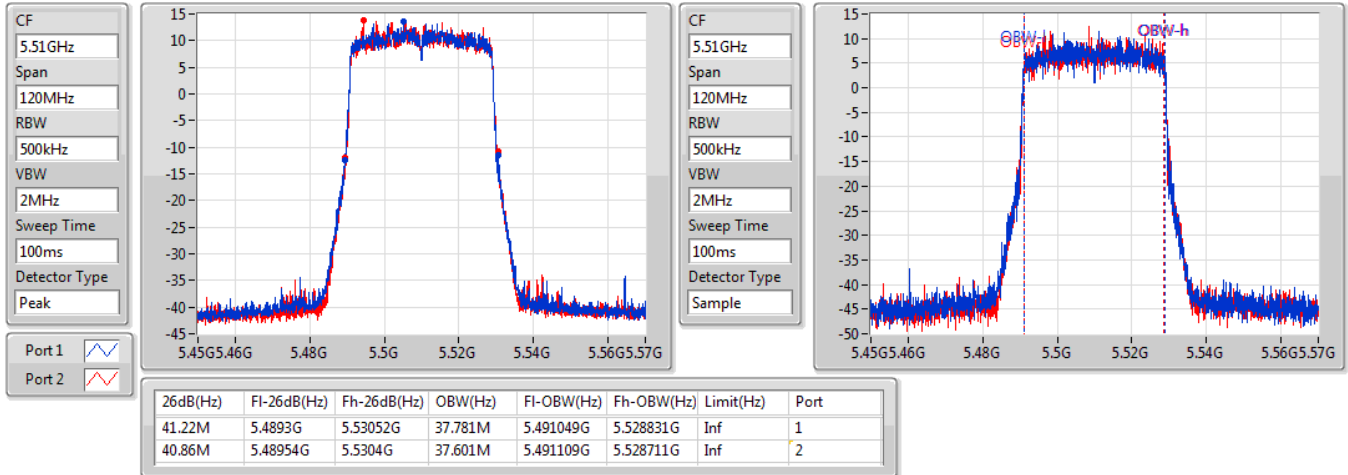

802.11ax HEW40-BF_Nss1,(MCS0)_2TX
EBW
5310MHz

08/08/2019

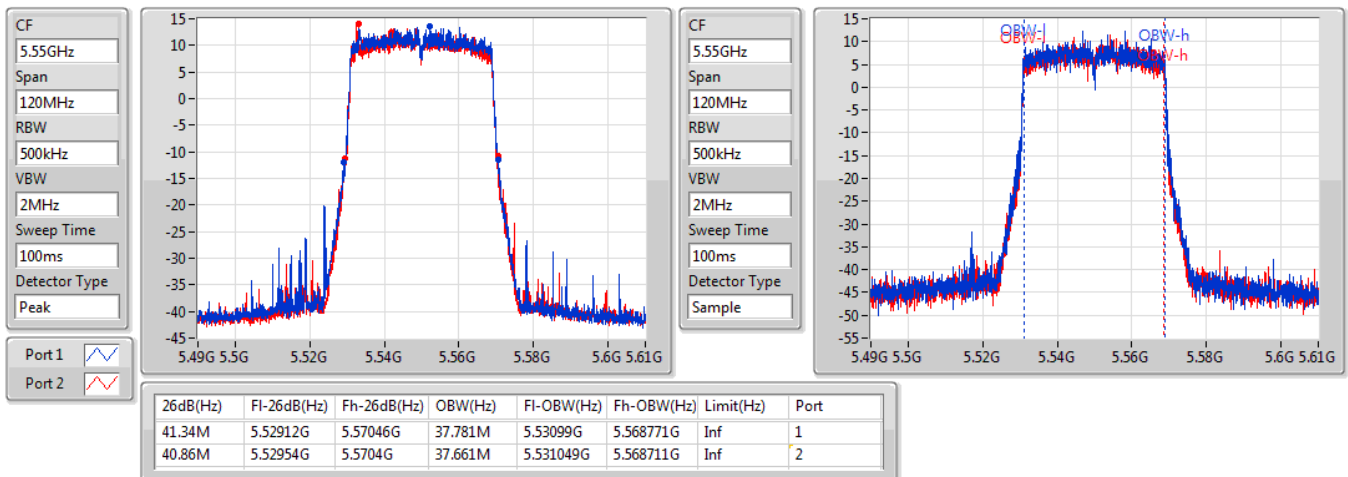


802.11ax HEW40-BF_Nss1,(MCS0)_2TX
EBW
5510MHz

08/08/2019

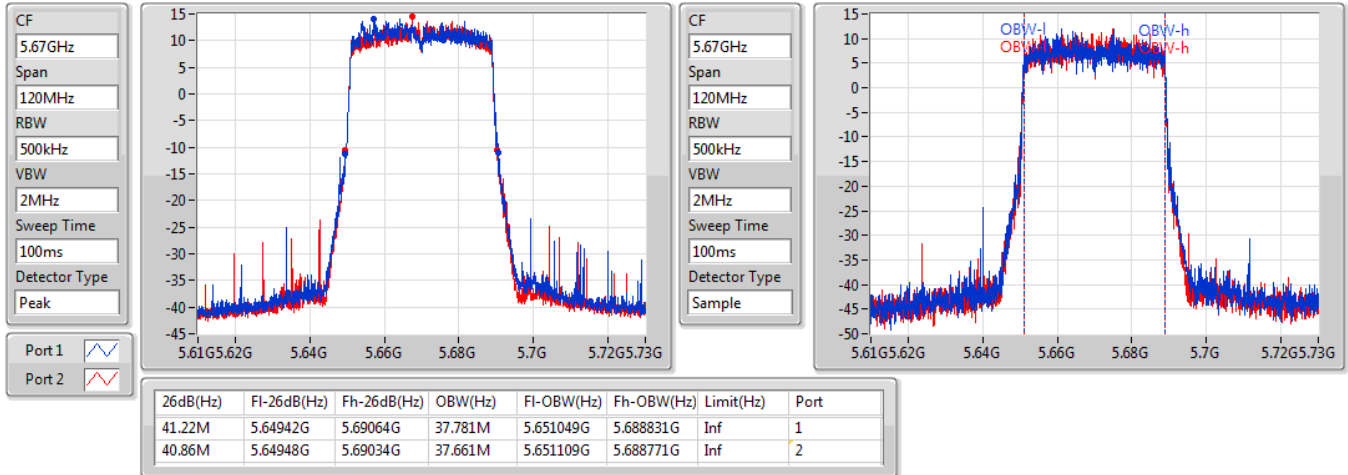

802.11ax HEW40-BF_Nss1,(MCS0)_2TX
EBW
5550MHz

08/08/2019

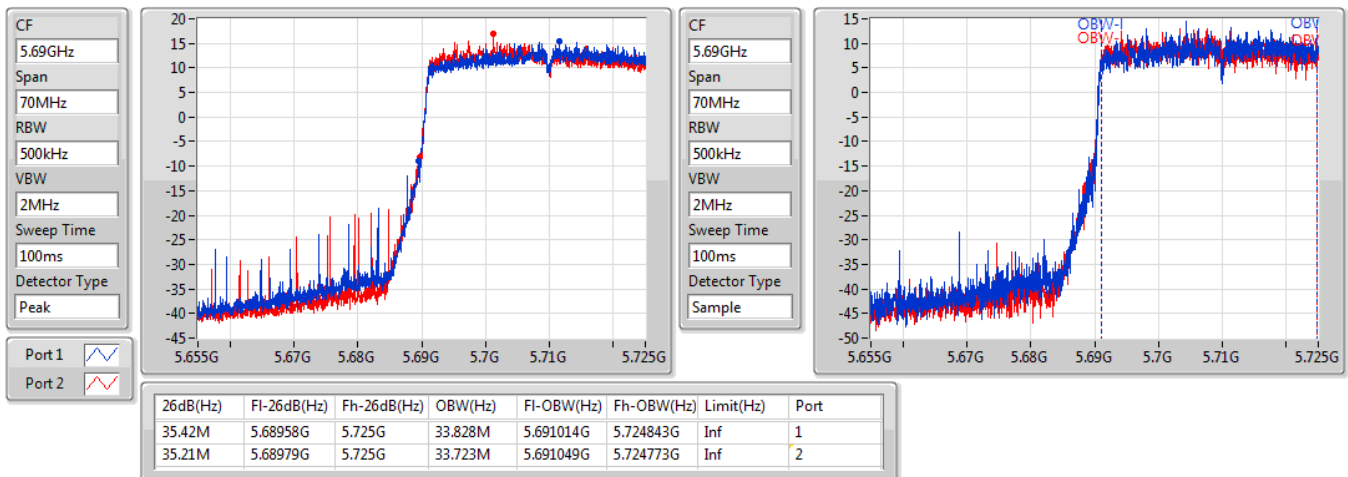


802.11ax HEW40-BF_Nss1,(MCS0)_2TX
EBW
5670MHz

08/08/2019

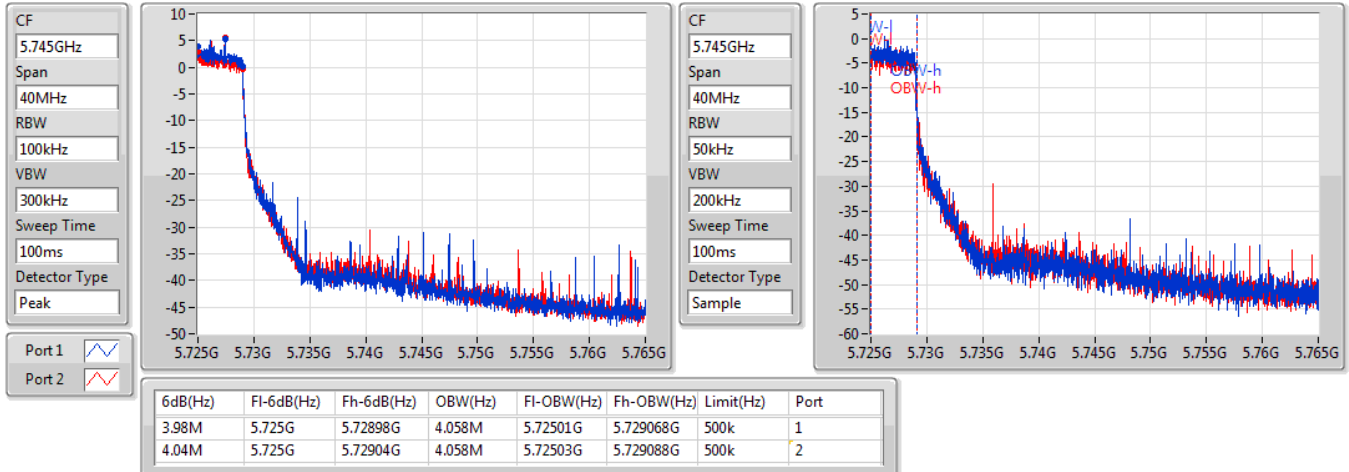

802.11ax HEW40-BF_Nss1,(MCS0)_2TX
EBW
5710MHz Straddle 5.47-5.725GHz

08/08/2019

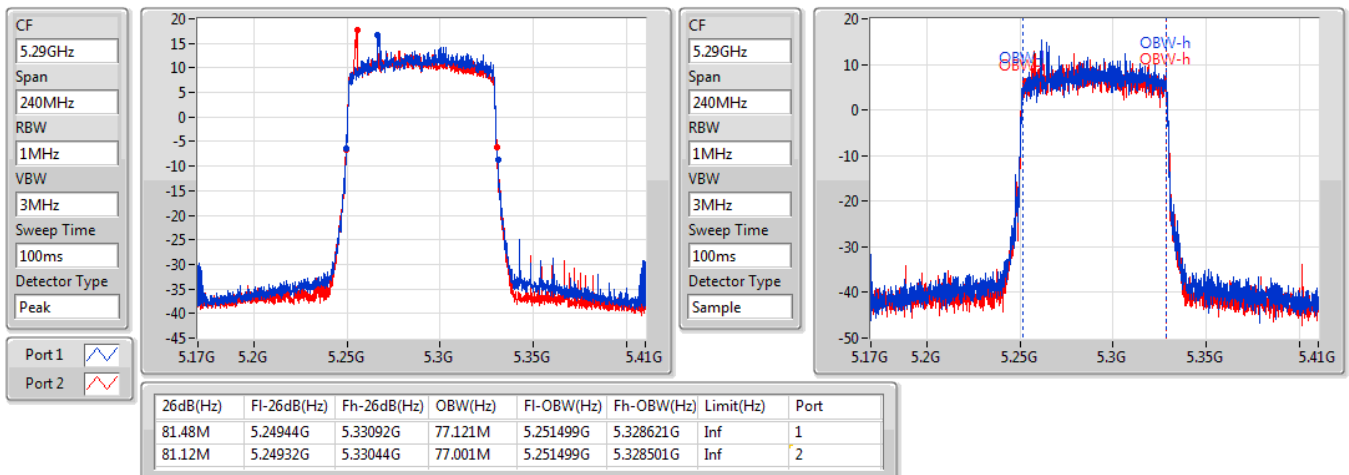


802.11ax HEW40-BF_Nss1,(MCS0)_2TX
EBW
5710MHz Straddle 5.725-5.85GHz

08/08/2019

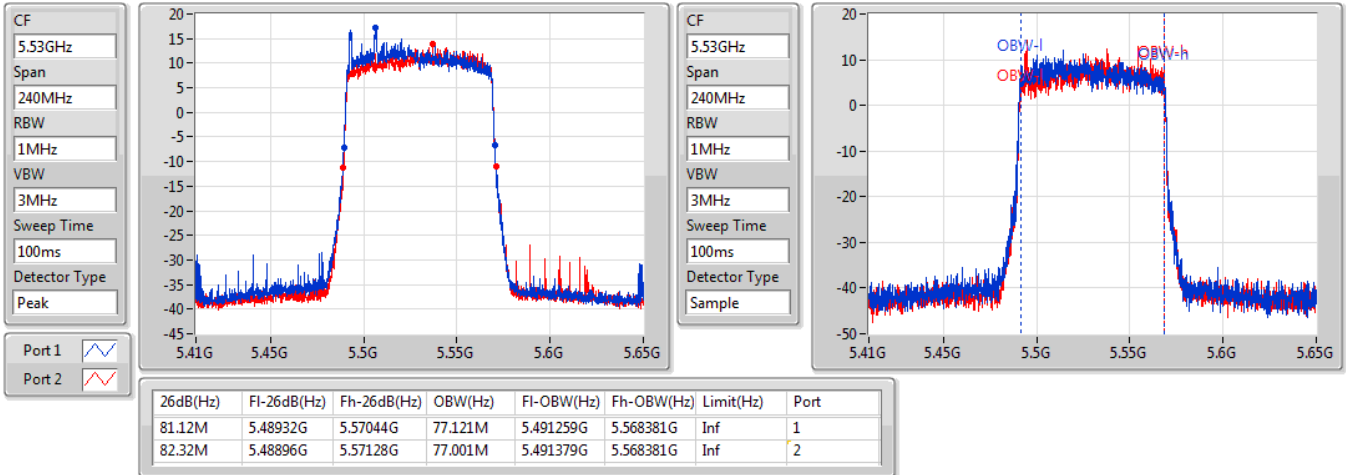

802.11ax HEW80-BF_Nss1,(MCS0)_2TX
EBW
5290MHz

08/08/2019

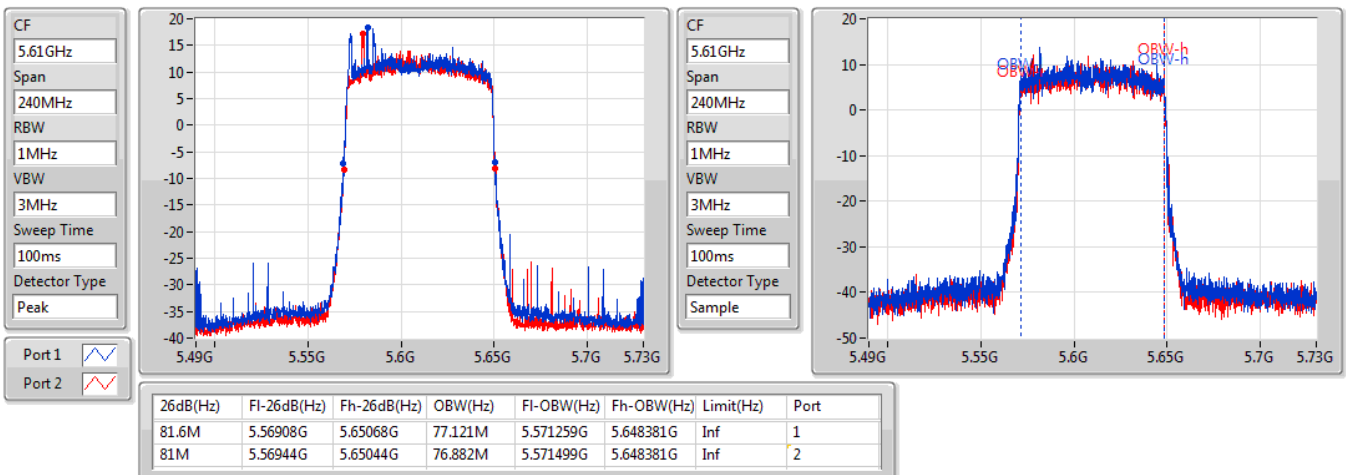


802.11ax HEW80-BF_Nss1,(MCS0)_2TX
EBW
5530MHz

08/08/2019


802.11ax HEW80-BF_Nss1,(MCS0)_2TX
EBW
5610MHz

08/08/2019

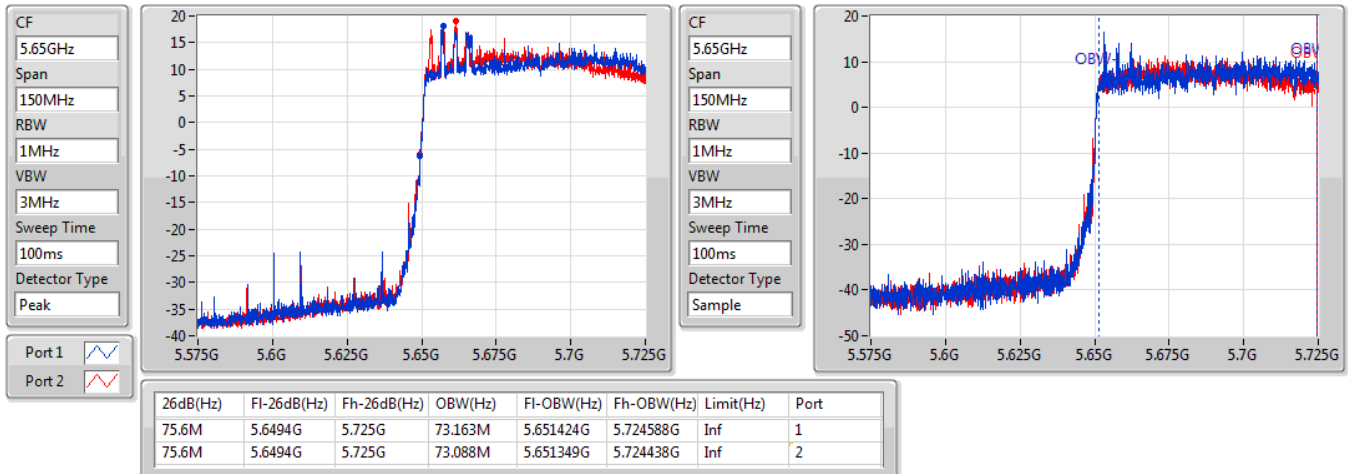


802.11ax HEW80-BF_Nss1,(MCS0)_2TX

EBW

5690MHz Straddle 5.47-5.725GHz

08/08/2019

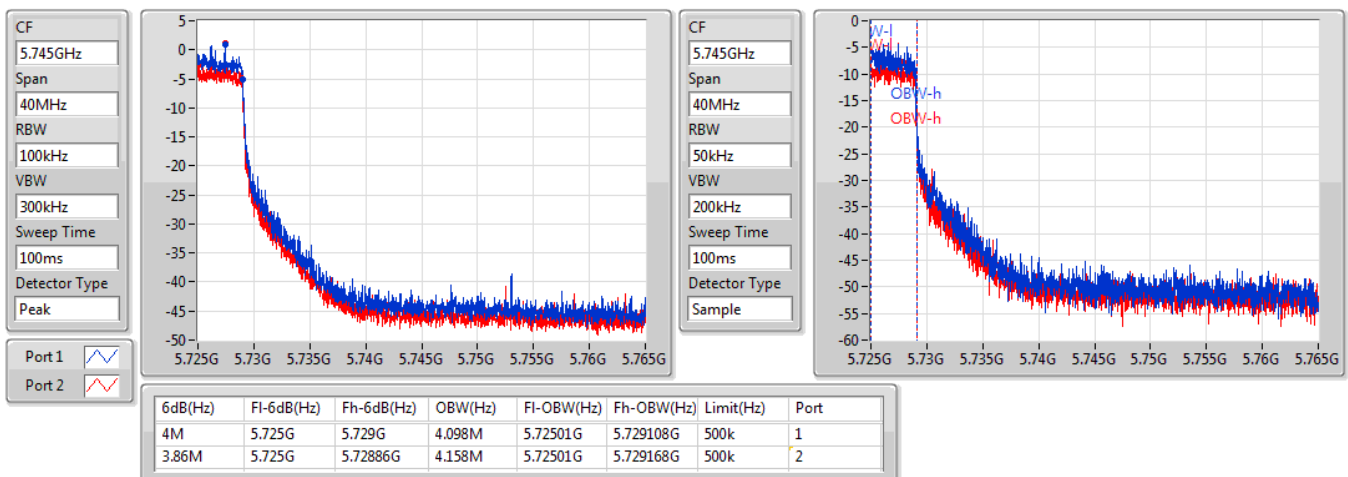


802.11ax HEW80-BF_Nss1,(MCS0)_2TX

EBW

5690MHz Straddle 5.725-5.85GHz

08/08/2019



Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.25-5.35GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	20.82M	16.432M	16M4D1D	20.01M	16.372M
802.11ax HEW20_Nss1,(MCS0)_4TX	22.08M	18.951M	19M0D1D	21.27M	18.891M
802.11ax HEW40_Nss1,(MCS0)_4TX	41.52M	37.721M	37M7D1D	40.74M	37.601M
802.11ax HEW80_Nss1,(MCS0)_4TX	82.56M	77.121M	77M1D1D	81.96M	76.882M
5.47-5.725GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	20.76M	16.432M	16M4D1D	15.18M	13.208M
802.11ax HEW20_Nss1,(MCS0)_4TX	21.9M	18.951M	19M0D1D	15.795M	14.498M
802.11ax HEW40_Nss1,(MCS0)_4TX	41.28M	37.781M	37M8D1D	35.35M	33.723M
802.11ax HEW80_Nss1,(MCS0)_4TX	82.8M	77.241M	77M2D1D	76.125M	73.013M
5.725-5.85GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	3.08M	3.518M	3M52D1D	3.06M	3.458M
802.11ax HEW20_Nss1,(MCS0)_4TX	4.34M	4.478M	4M48D1D	4.04M	4.478M
802.11ax HEW40_Nss1,(MCS0)_4TX	4.04M	4.058M	4M06D1D	3.9M	4.018M
802.11ax HEW80_Nss1,(MCS0)_4TX	4.04M	4.138M	4M14D1D	3.88M	4.078M

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

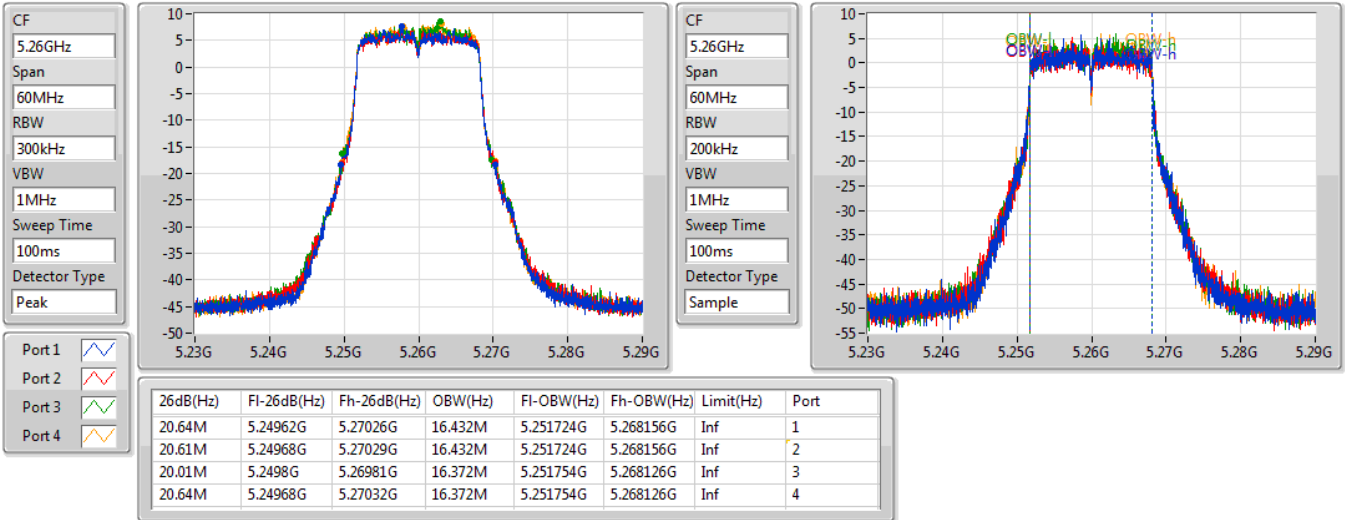
Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)	Port 3-N dB (Hz)	Port 3-OBW (Hz)	Port 4-N dB (Hz)	Port 4-OBW (Hz)
802.11a_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-	-	-
5260MHz	Pass	Inf	20.64M	16.432M	20.61M	16.432M	20.01M	16.372M	20.64M	16.372M
5300MHz	Pass	Inf	20.55M	16.402M	20.64M	16.402M	20.82M	16.432M	20.46M	16.402M
5320MHz	Pass	Inf	20.49M	16.402M	20.58M	16.372M	20.73M	16.432M	20.52M	16.402M
5500MHz	Pass	Inf	20.67M	16.402M	20.61M	16.402M	19.86M	16.372M	20.67M	16.372M
5580MHz	Pass	Inf	20.7M	16.402M	20.7M	16.432M	20.64M	16.432M	20.64M	16.402M
5700MHz	Pass	Inf	20.37M	16.372M	19.95M	16.342M	19.86M	16.402M	20.76M	16.372M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	15.345M	13.208M	15.36M	13.283M	15.285M	13.253M	15.18M	13.223M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	3.06M	3.518M	3.08M	3.478M	3.08M	3.458M	3.08M	3.478M
802.11ax HEW20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5260MHz	Pass	Inf	21.39M	18.891M	21.54M	18.891M	21.87M	18.951M	21.84M	18.891M
5300MHz	Pass	Inf	21.48M	18.951M	21.45M	18.891M	21.72M	18.891M	21.87M	18.921M
5320MHz	Pass	Inf	21.27M	18.921M	22.08M	18.951M	21.78M	18.951M	21.75M	18.951M
5500MHz	Pass	Inf	21.27M	18.891M	21.63M	18.921M	21.81M	18.891M	21.87M	18.891M
5580MHz	Pass	Inf	21.84M	18.951M	21.84M	18.921M	21.75M	18.921M	21.69M	18.921M
5700MHz	Pass	Inf	21.69M	18.891M	21.9M	18.861M	21.36M	18.921M	21.63M	18.951M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	16.26M	14.528M	15.84M	14.528M	15.795M	14.498M	16.095M	14.513M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	4.34M	4.478M	4.34M	4.478M	4.18M	4.478M	4.04M	4.478M
802.11ax HEW40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5270MHz	Pass	Inf	40.92M	37.601M	41.52M	37.721M	40.92M	37.661M	41.28M	37.721M
5310MHz	Pass	Inf	41.28M	37.661M	40.74M	37.721M	40.98M	37.661M	41.04M	37.661M
5510MHz	Pass	Inf	41.28M	37.601M	40.5M	37.661M	41.16M	37.601M	40.74M	37.721M
5550MHz	Pass	Inf	41.1M	37.781M	41.16M	37.721M	40.86M	37.661M	40.68M	37.721M
5670MHz	Pass	Inf	41.1M	37.661M	41.04M	37.781M	40.86M	37.781M	40.86M	37.781M
5710MHz Straddle 5.47-5.725GHz	Pass	Inf	35.77M	33.758M	35.455M	33.863M	35.665M	33.723M	35.35M	33.828M
5710MHz Straddle 5.725-5.85GHz	Pass	500k	4.04M	4.058M	4.02M	4.018M	3.9M	4.018M	3.94M	4.038M
802.11ax HEW80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5290MHz	Pass	Inf	81.96M	76.882M	82.56M	77.001M	82.56M	77.121M	82.2M	76.882M
5530MHz	Pass	Inf	82.44M	77.001M	81.96M	77.001M	82.2M	77.121M	82.08M	77.121M
5610MHz	Pass	Inf	82.44M	77.001M	82.44M	77.241M	82.2M	77.001M	82.8M	76.762M
5690MHz Straddle 5.47-5.725GHz	Pass	Inf	76.125M	73.388M	76.65M	73.013M	76.2M	73.238M	76.5M	73.163M
5690MHz Straddle 5.725-5.85GHz	Pass	500k	4.04M	4.078M	4.02M	4.098M	3.88M	4.138M	4M	4.078M

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

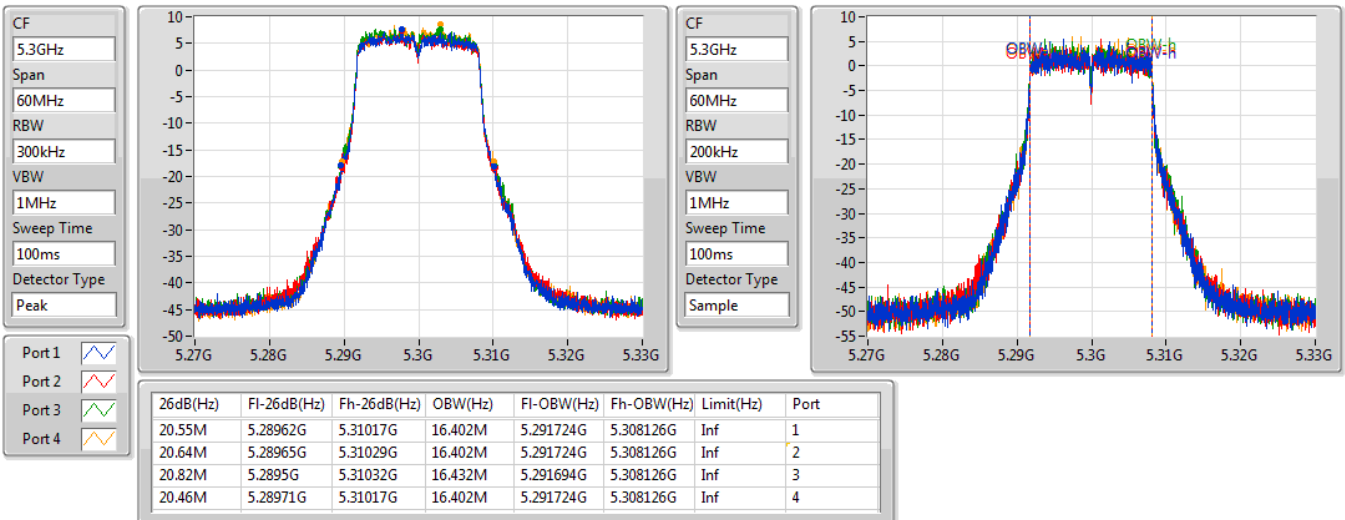
Port X-OBW = Port X 99% occupied bandwidth;

802.11a_Nss1,(6Mbps)_4TX
EBW
5260MHz

02/08/2019

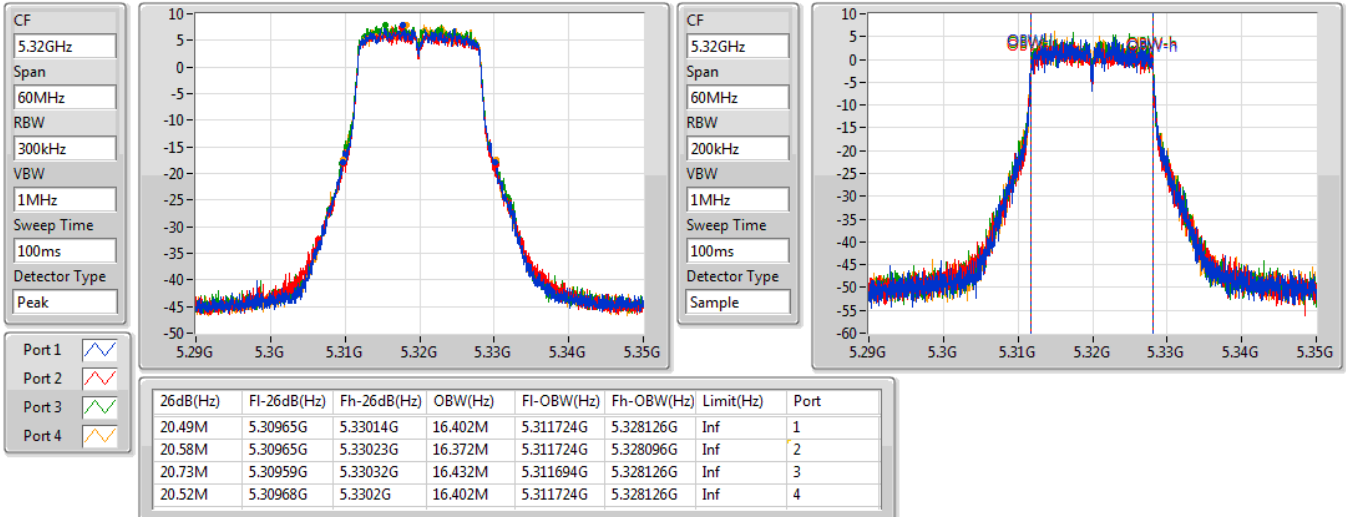

802.11a_Nss1,(6Mbps)_4TX
EBW
5300MHz

02/08/2019

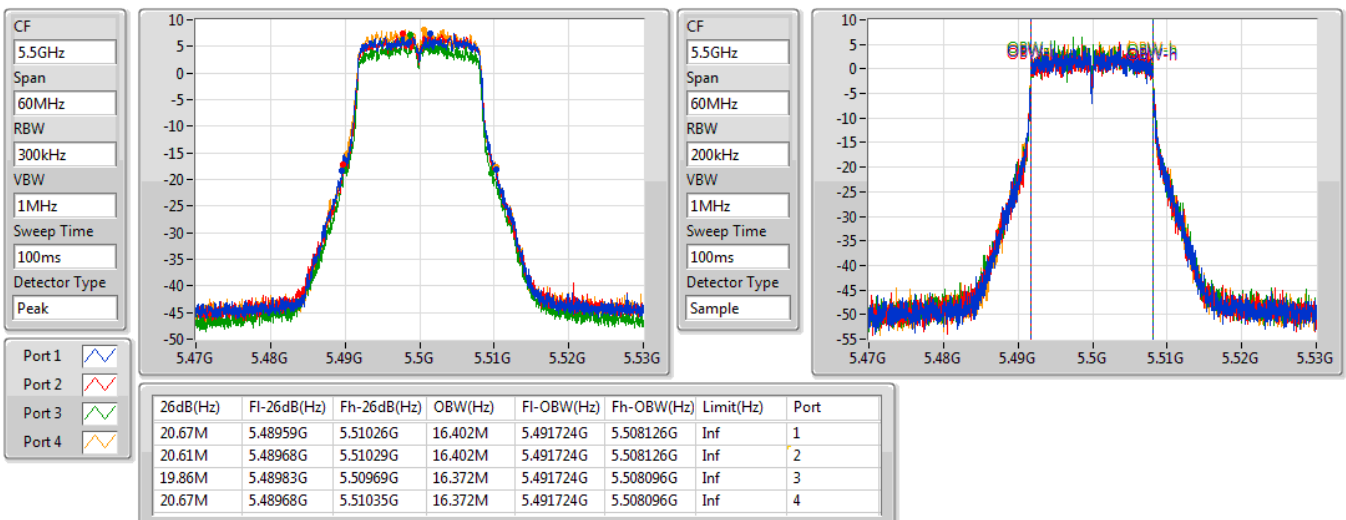


802.11a_Nss1,(6Mbps)_4TX
EBW
5320MHz

02/08/2019

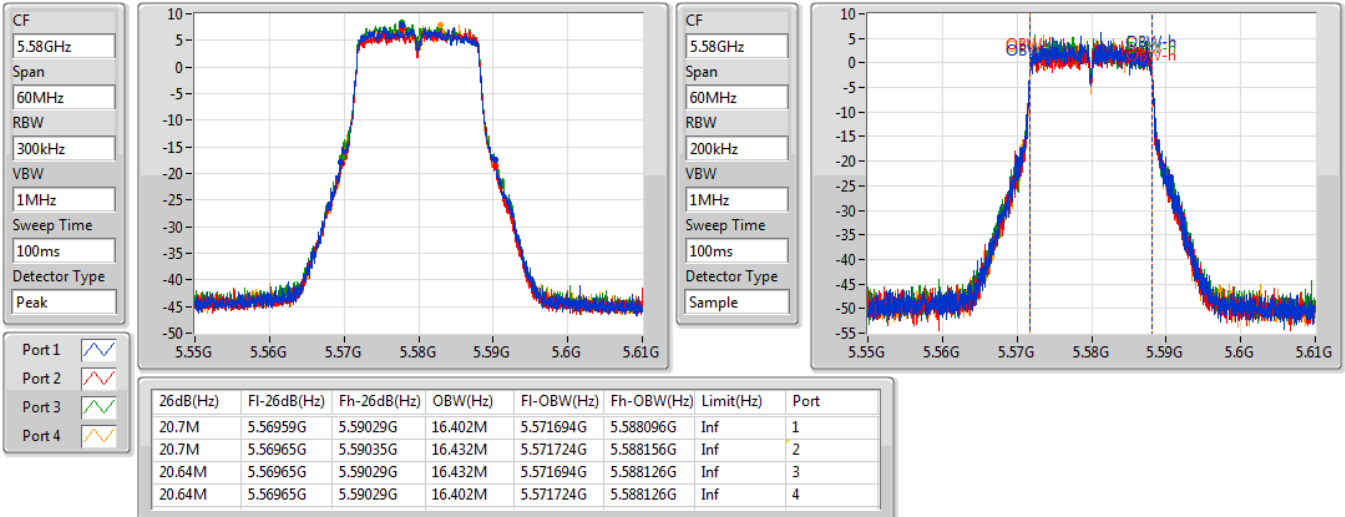

802.11a_Nss1,(6Mbps)_4TX
EBW
5500MHz

02/08/2019

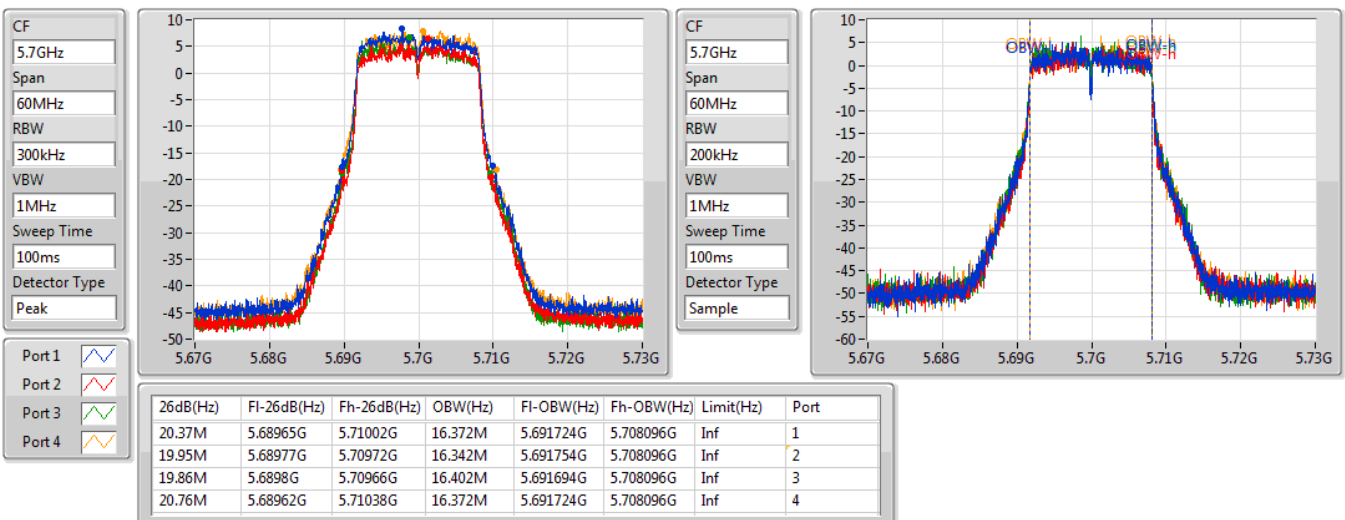


802.11a_Nss1,(6Mbps)_4TX
EBW
5580MHz

02/08/2019

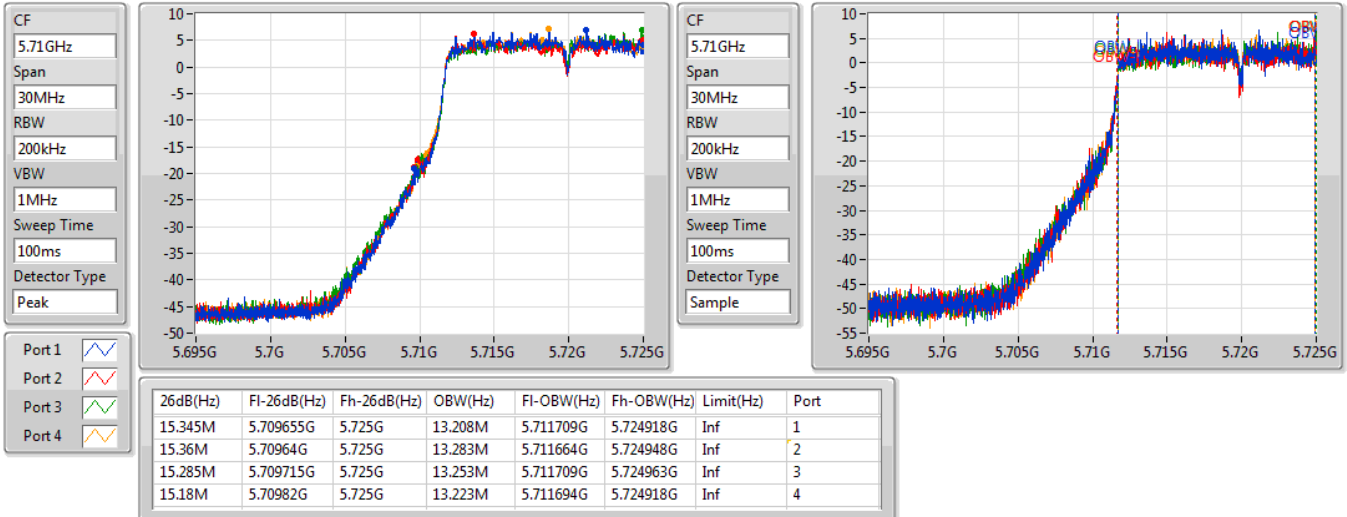

802.11a_Nss1,(6Mbps)_4TX
EBW
5700MHz

02/08/2019

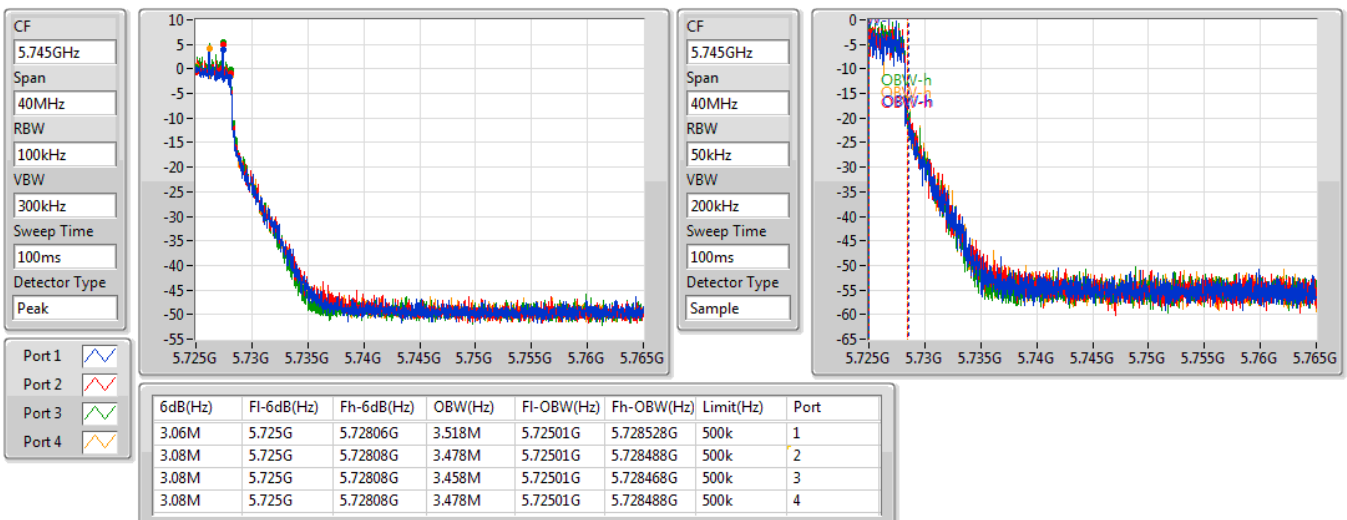


802.11a_Nss1,(6Mbps)_4TX
EBW
5720MHz Straddle 5.47-5.725GHz

02/08/2019

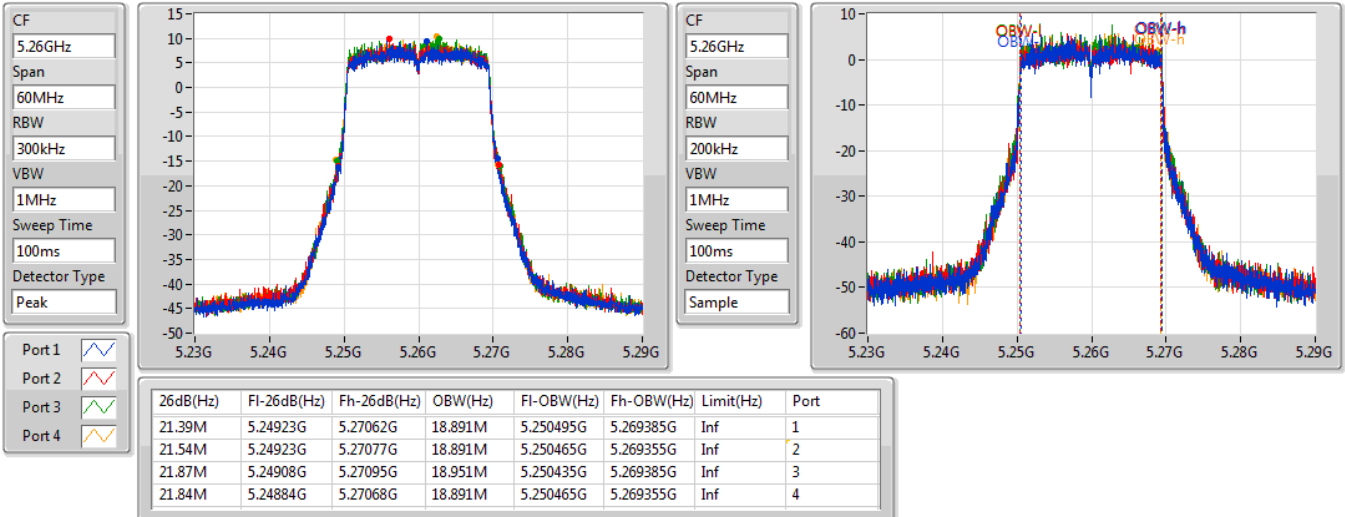

802.11a_Nss1,(6Mbps)_4TX
EBW
5720MHz Straddle 5.725-5.85GHz

02/08/2019

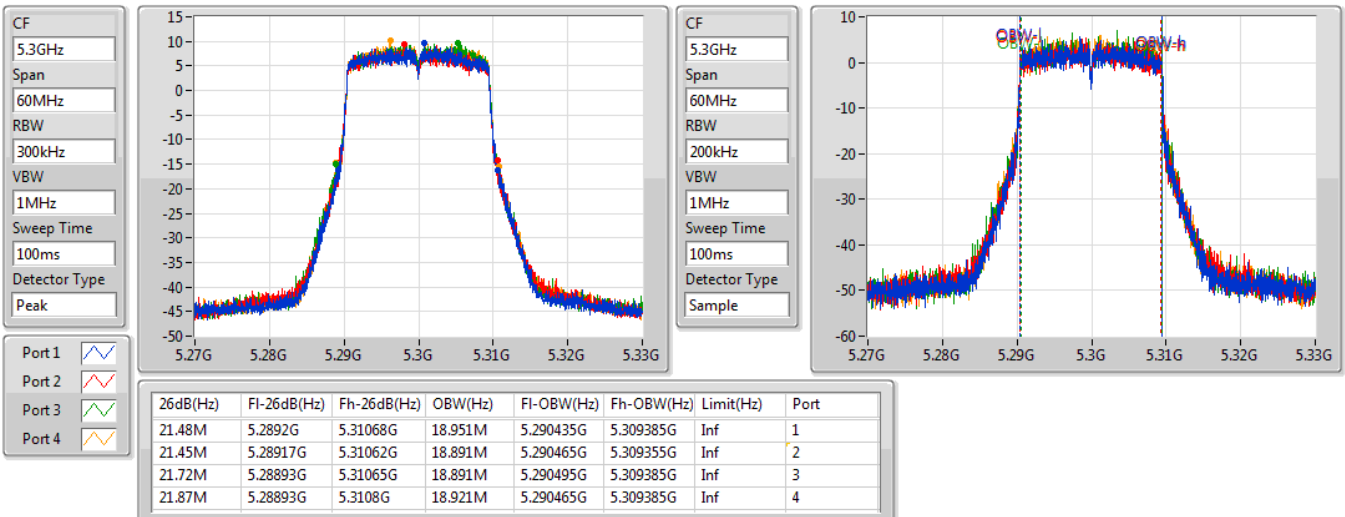


802.11ax HEW20_Nss1,(MCS0)_4TX
EBW
5260MHz

02/08/2019

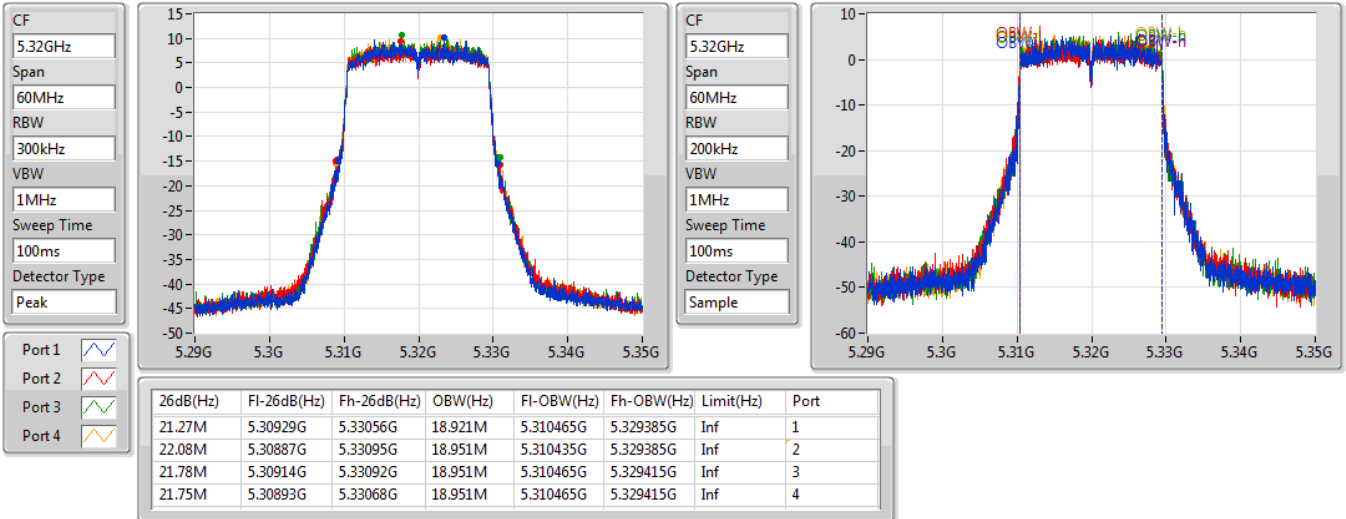

802.11ax HEW20_Nss1,(MCS0)_4TX
EBW
5300MHz

02/08/2019

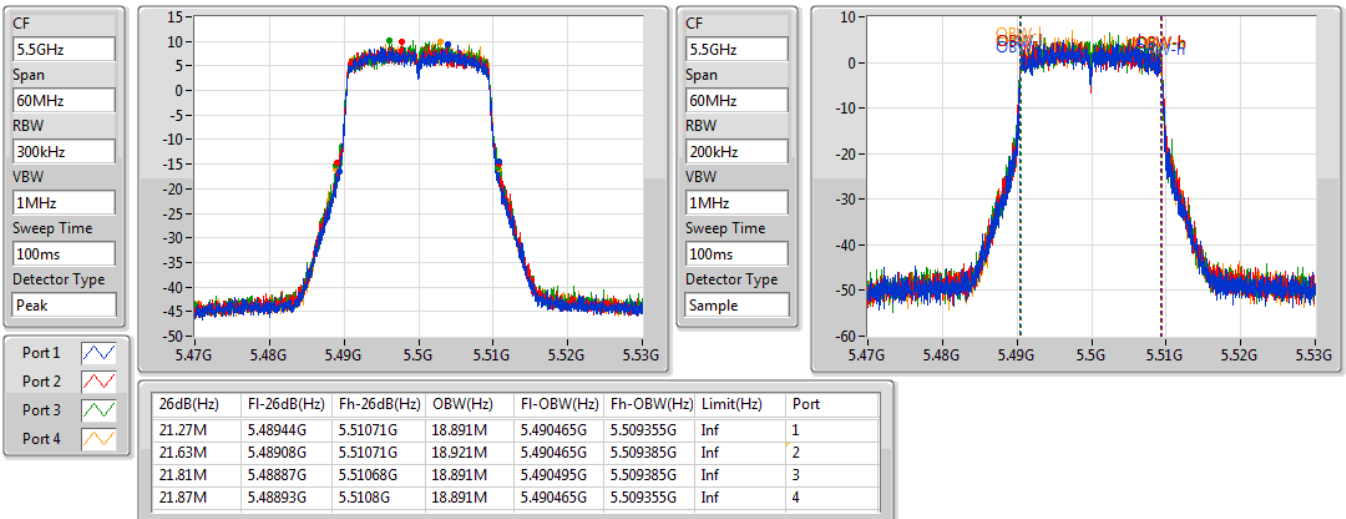


802.11ax HEW20_Nss1,(MCS0)_4TX
EBW
5320MHz

02/08/2019

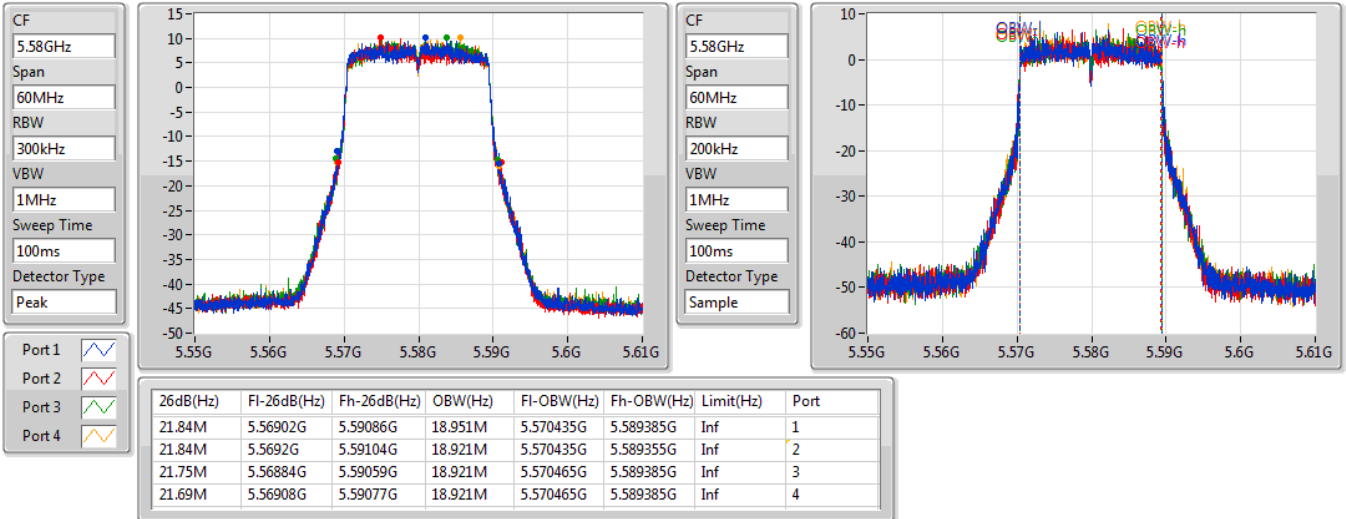

802.11ax HEW20_Nss1,(MCS0)_4TX
EBW
5500MHz

02/08/2019

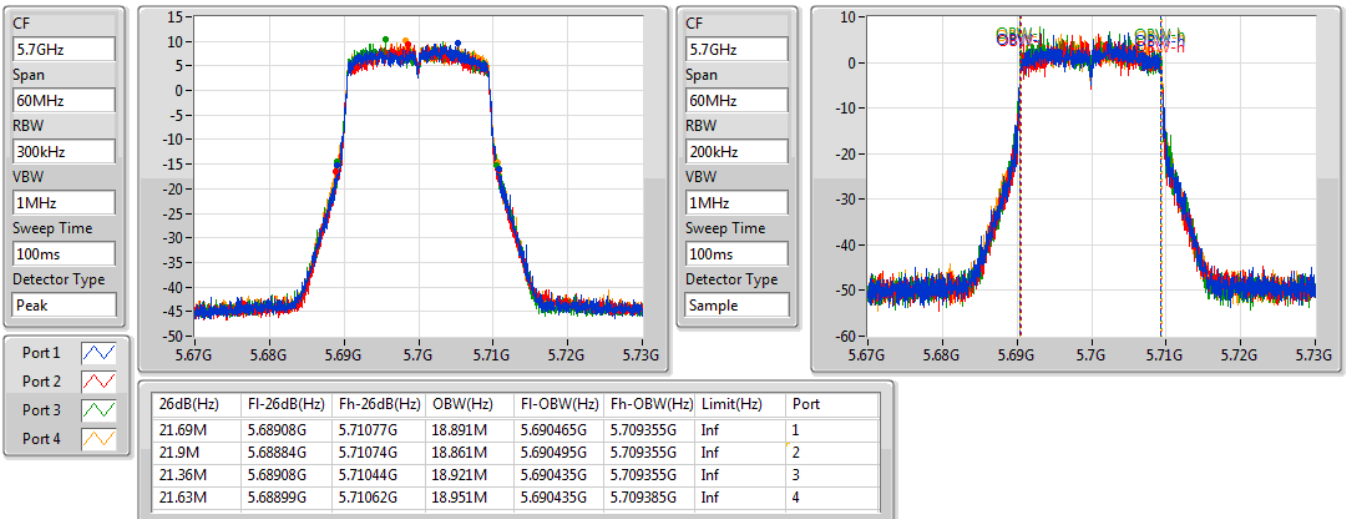


802.11ax HEW20_Nss1,(MCS0)_4TX
EBW
5580MHz

02/08/2019

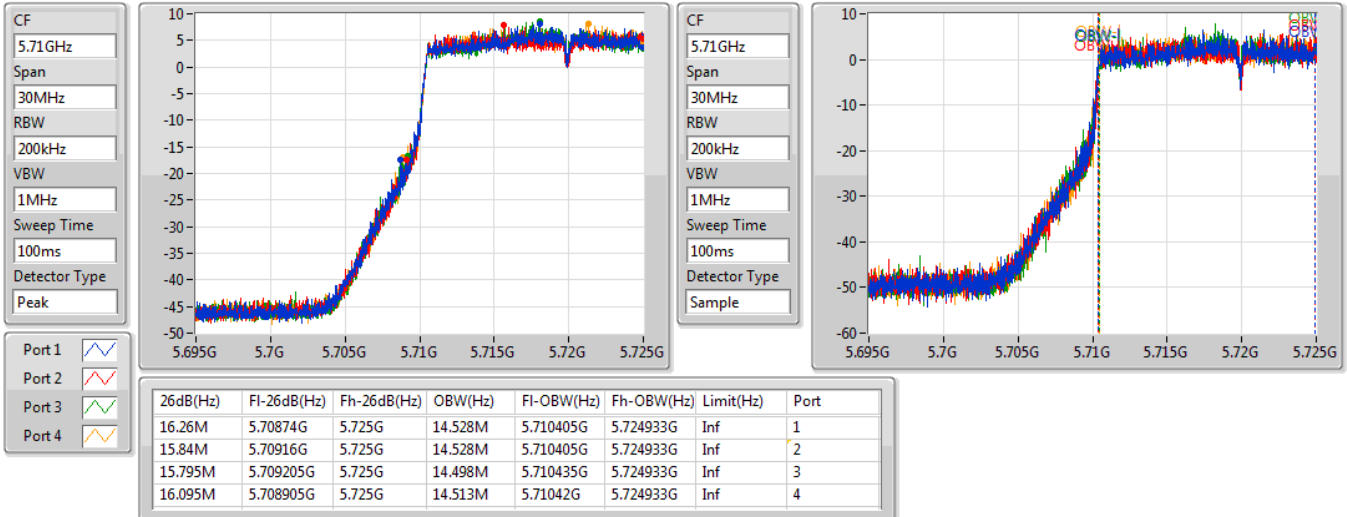

802.11ax HEW20_Nss1,(MCS0)_4TX
EBW
5700MHz

02/08/2019

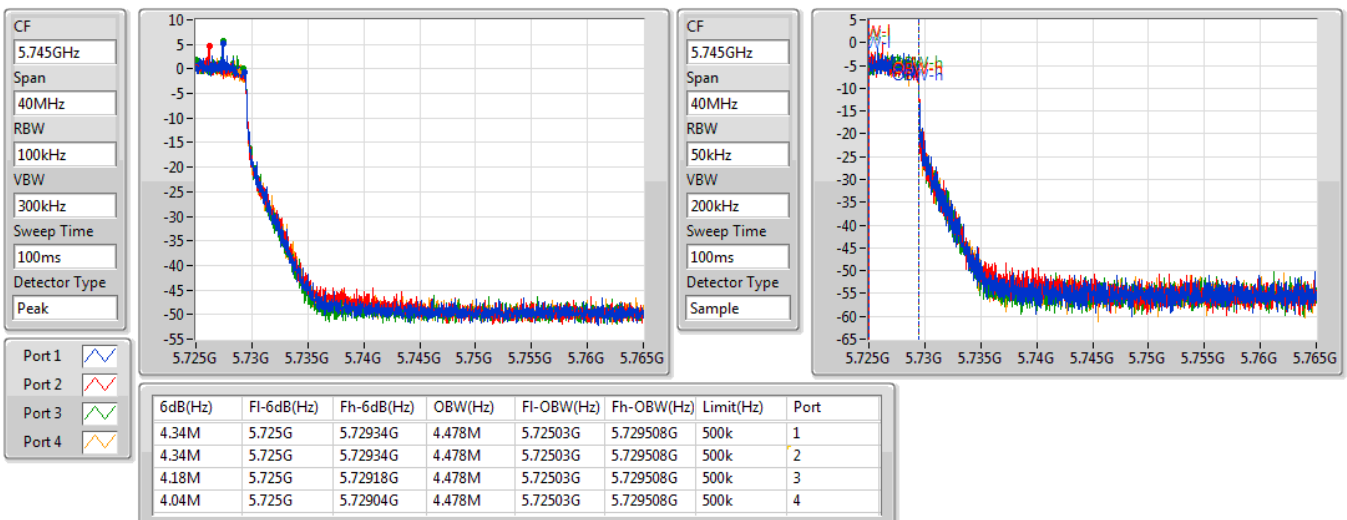


802.11ax HEW20_Nss1,(MCS0)_4TX
EBW
5720MHz Straddle 5.47-5.725GHz

02/08/2019

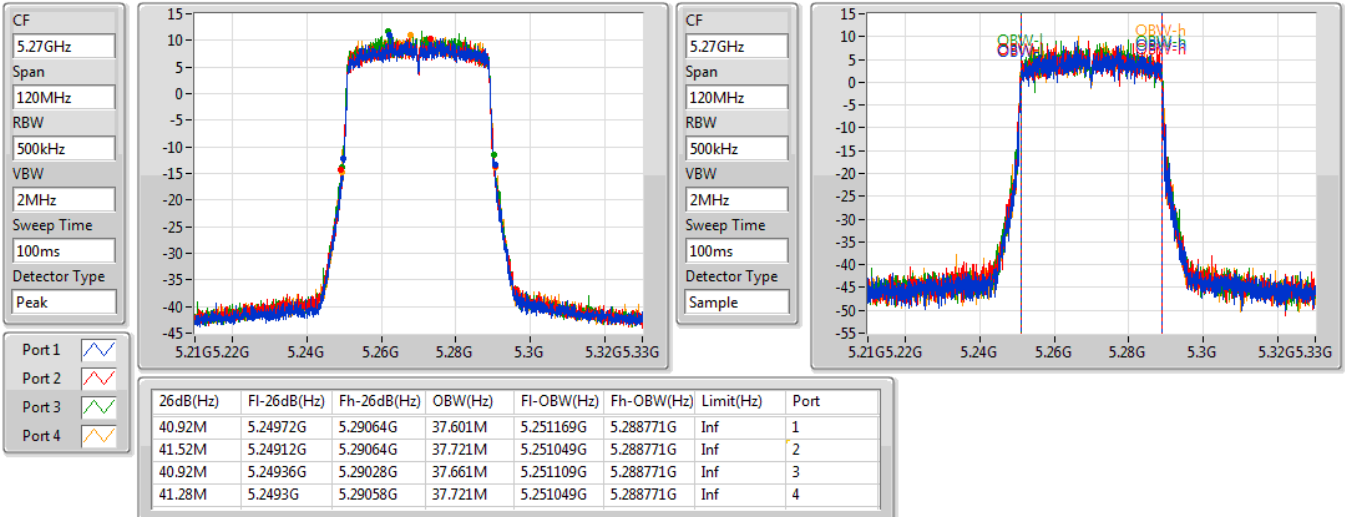

802.11ax HEW20_Nss1,(MCS0)_4TX
EBW
5720MHz Straddle 5.725-5.85GHz

02/08/2019

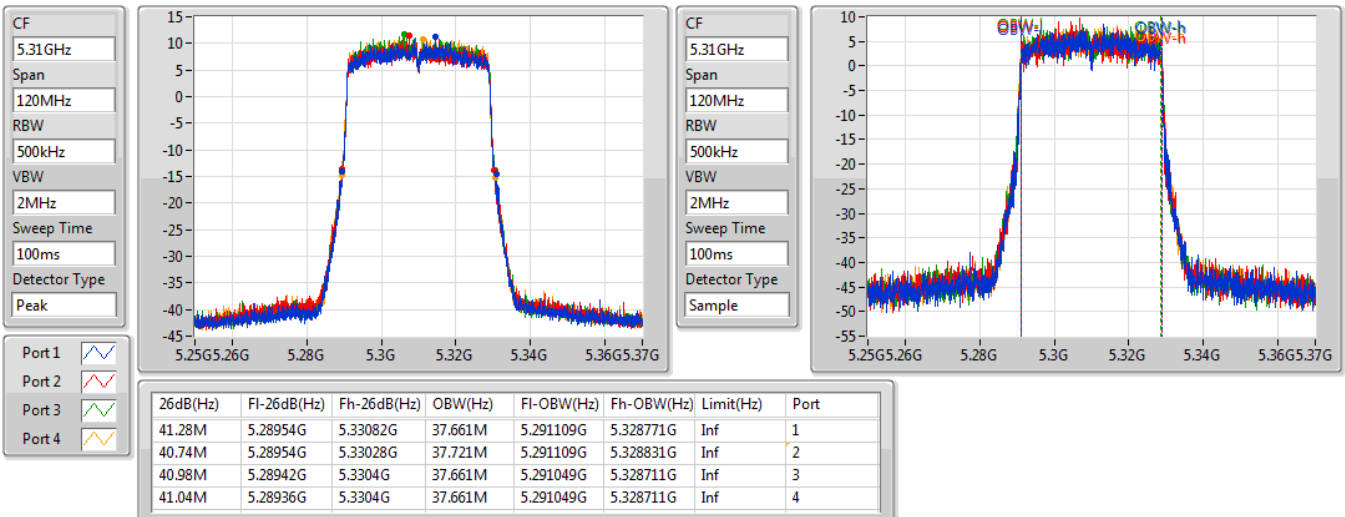


802.11ax HEW40_Nss1,(MCS0)_4TX
EBW
5270MHz

02/08/2019

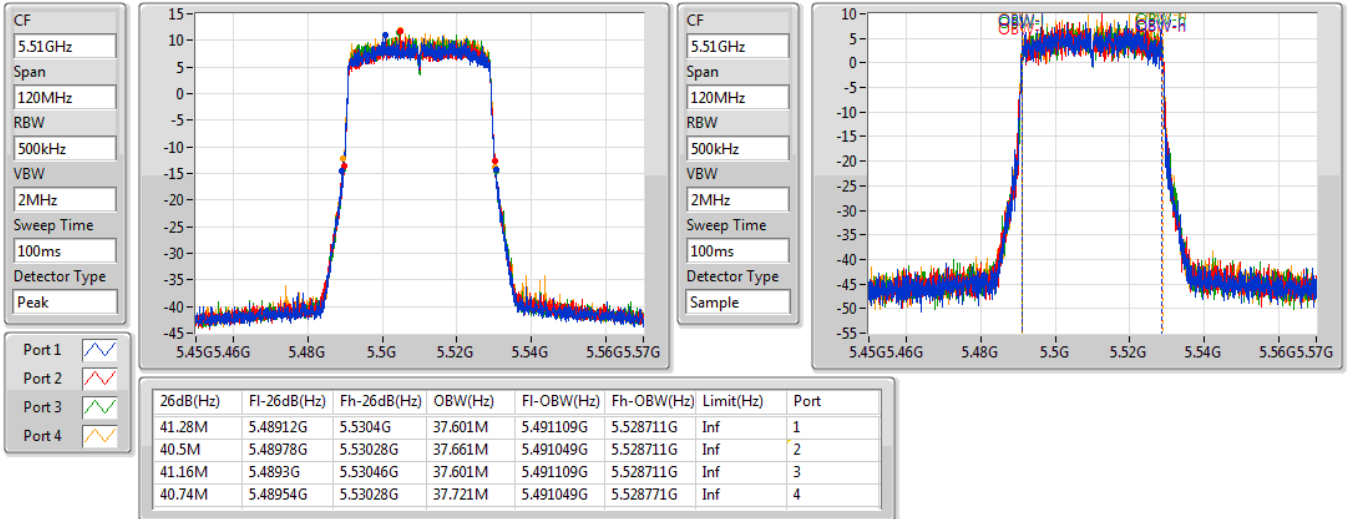

802.11ax HEW40_Nss1,(MCS0)_4TX
EBW
5310MHz

02/08/2019

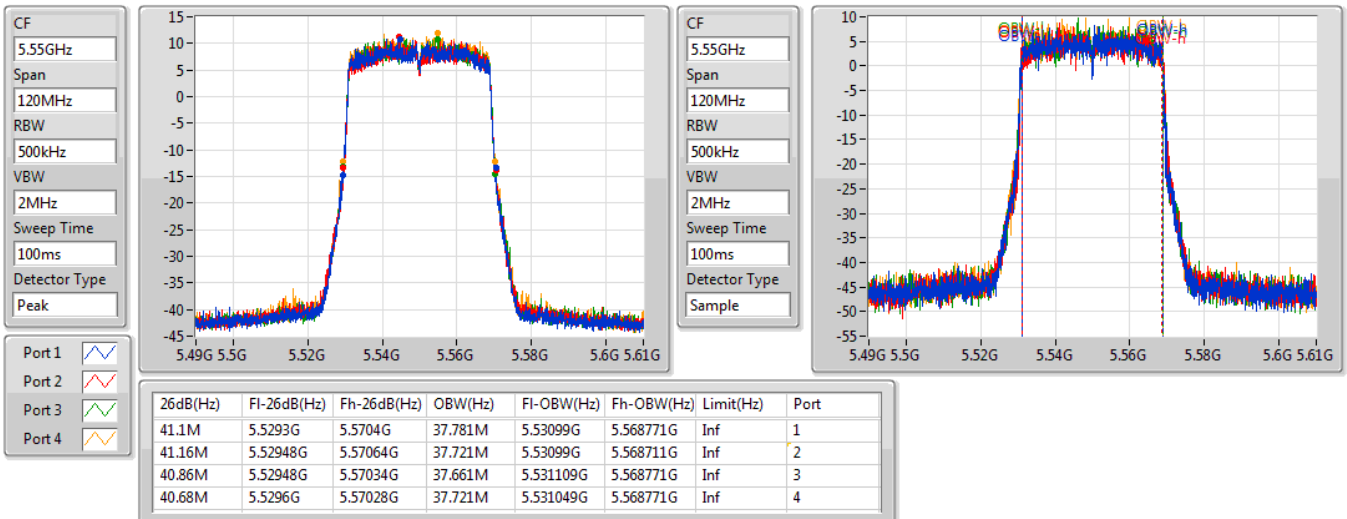


802.11ax HEW40_Nss1,(MCS0)_4TX
EBW
5510MHz

02/08/2019

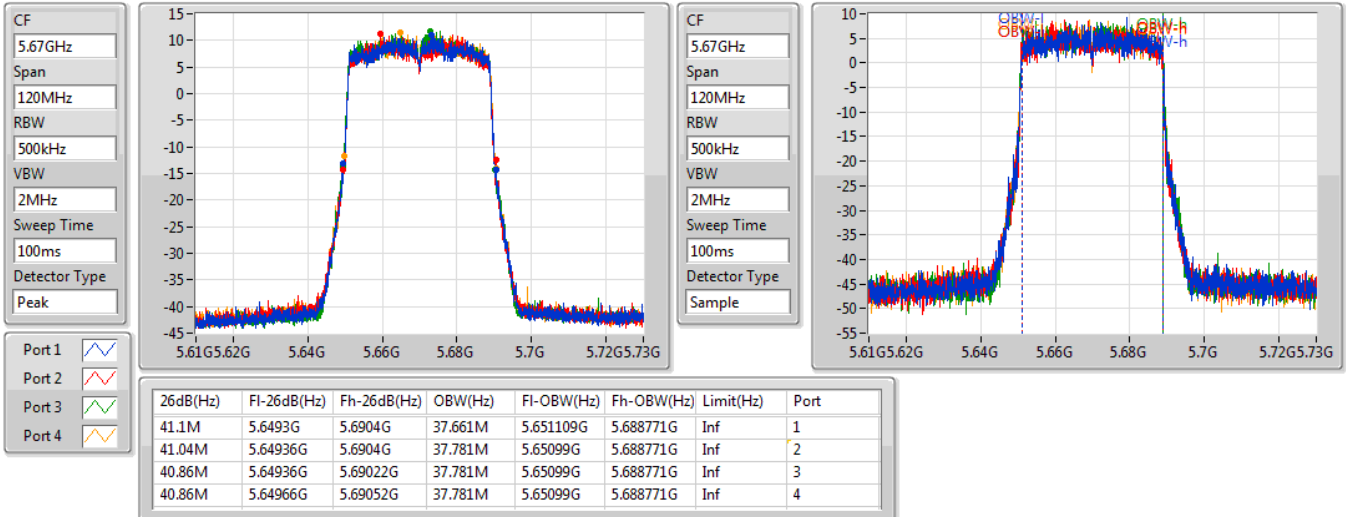

802.11ax HEW40_Nss1,(MCS0)_4TX
EBW
5550MHz

02/08/2019

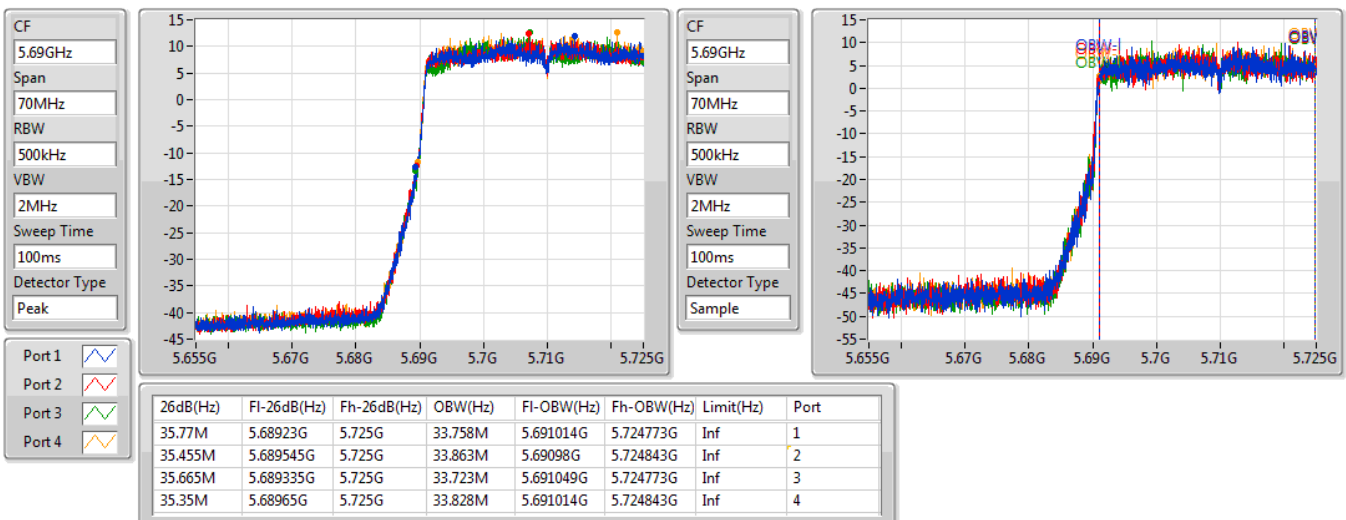


802.11ax HEW40_Nss1,(MCS0)_4TX
EBW
5670MHz

02/08/2019

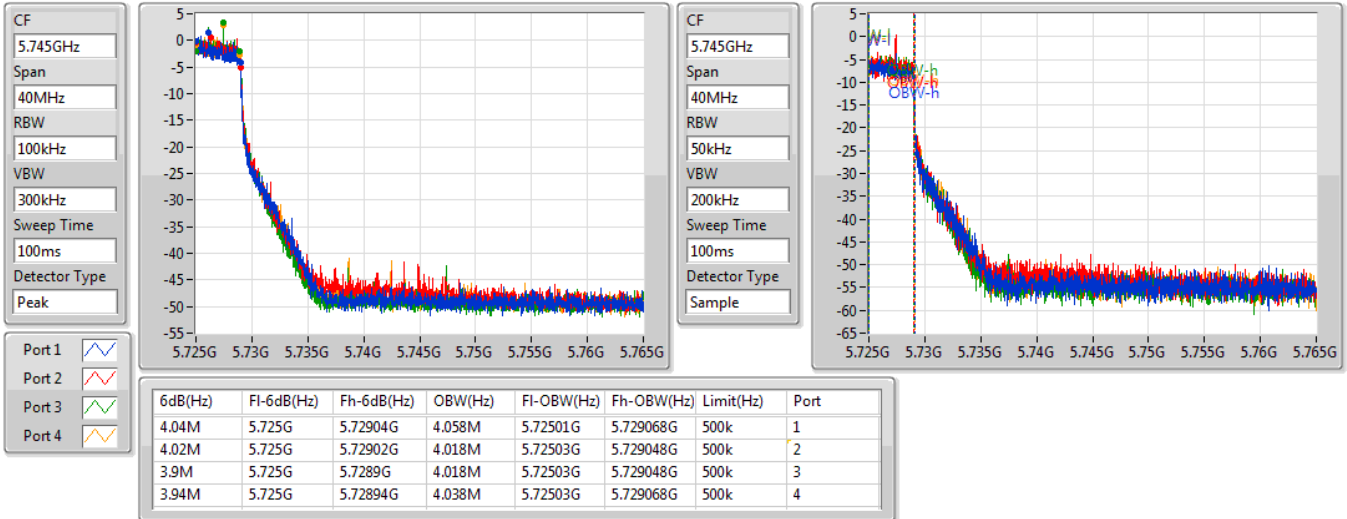

802.11ax HEW40_Nss1,(MCS0)_4TX
EBW
5710MHz Straddle 5.47-5.725GHz

03/08/2019

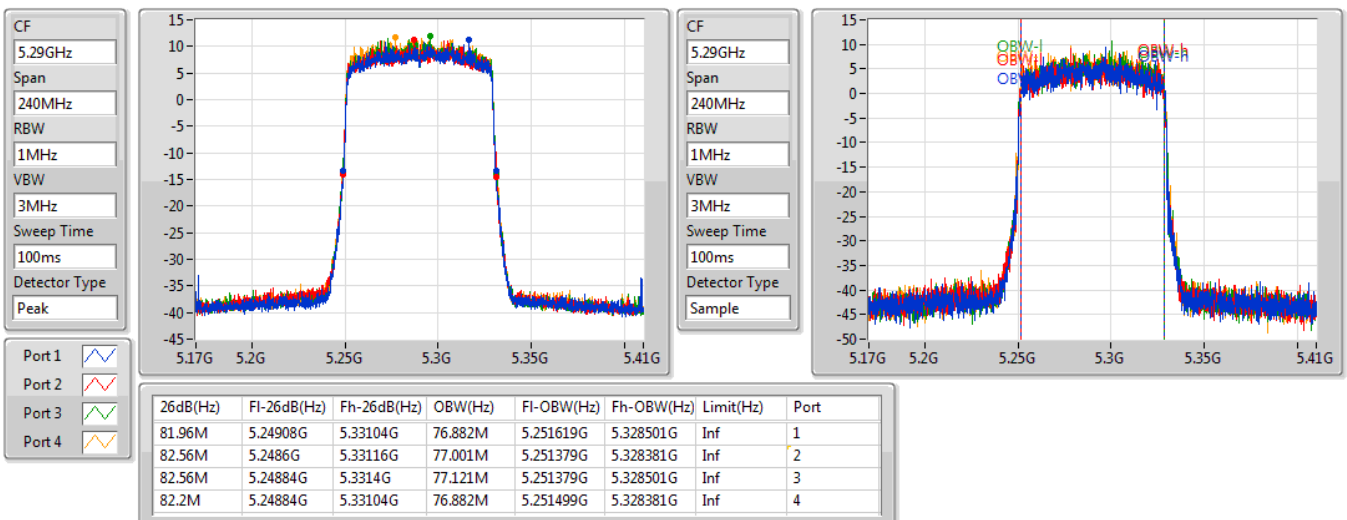


802.11ax HEW40_Nss1,(MCS0)_4TX
EBW
5710MHz Straddle 5.725-5.85GHz

03/08/2019

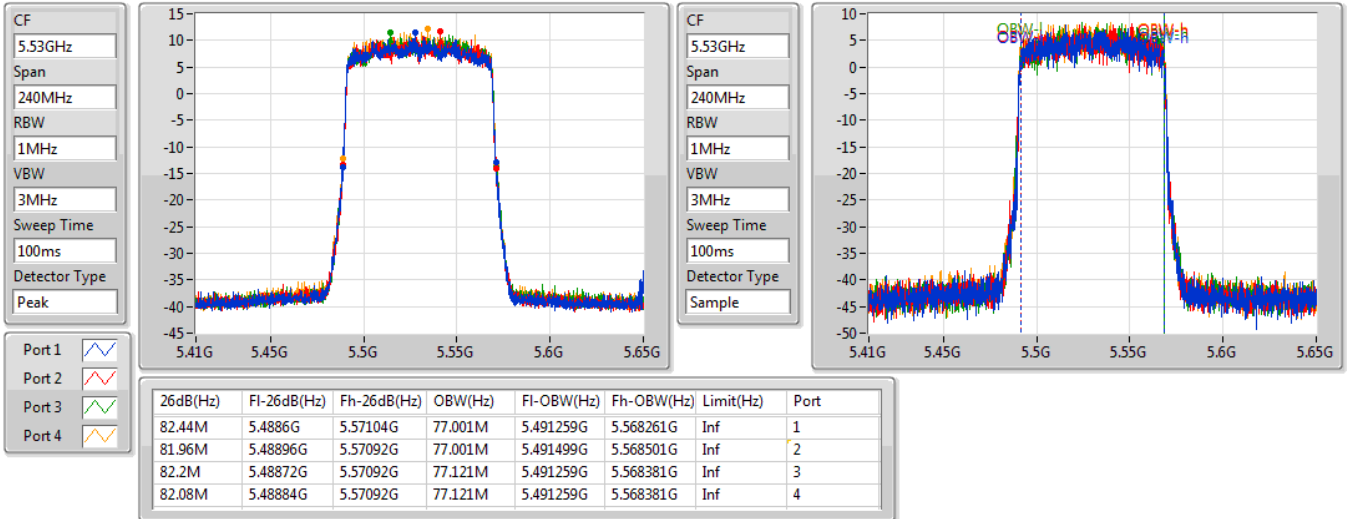

802.11ax HEW80_Nss1,(MCS0)_4TX
EBW
5290MHz

03/08/2019

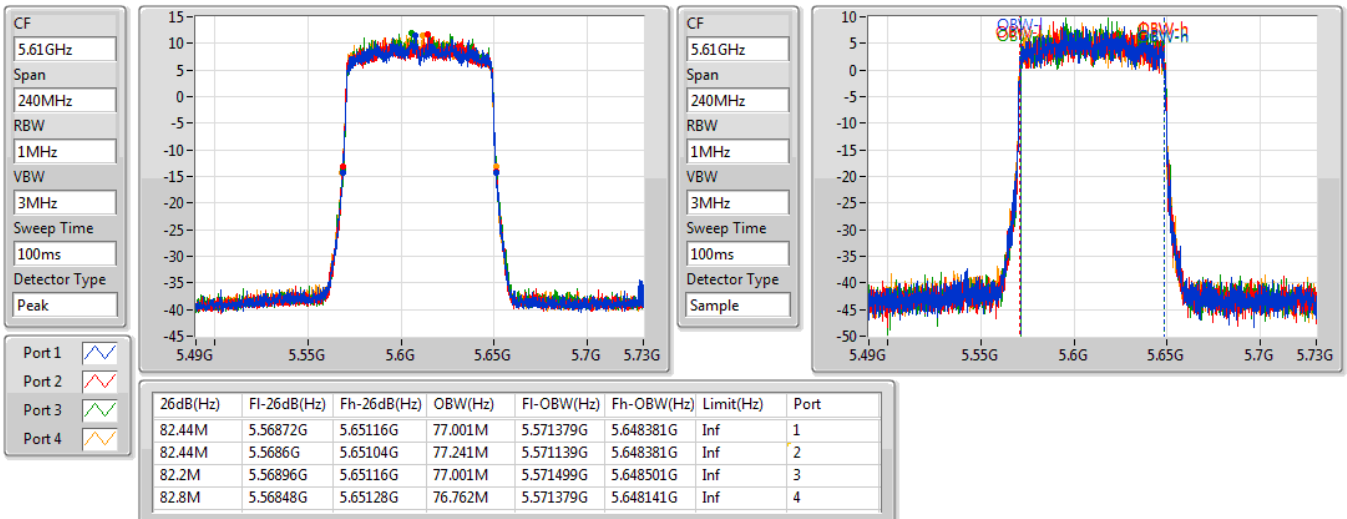


802.11ax HEW80_Nss1,(MCS0)_4TX
EBW
5530MHz

03/08/2019

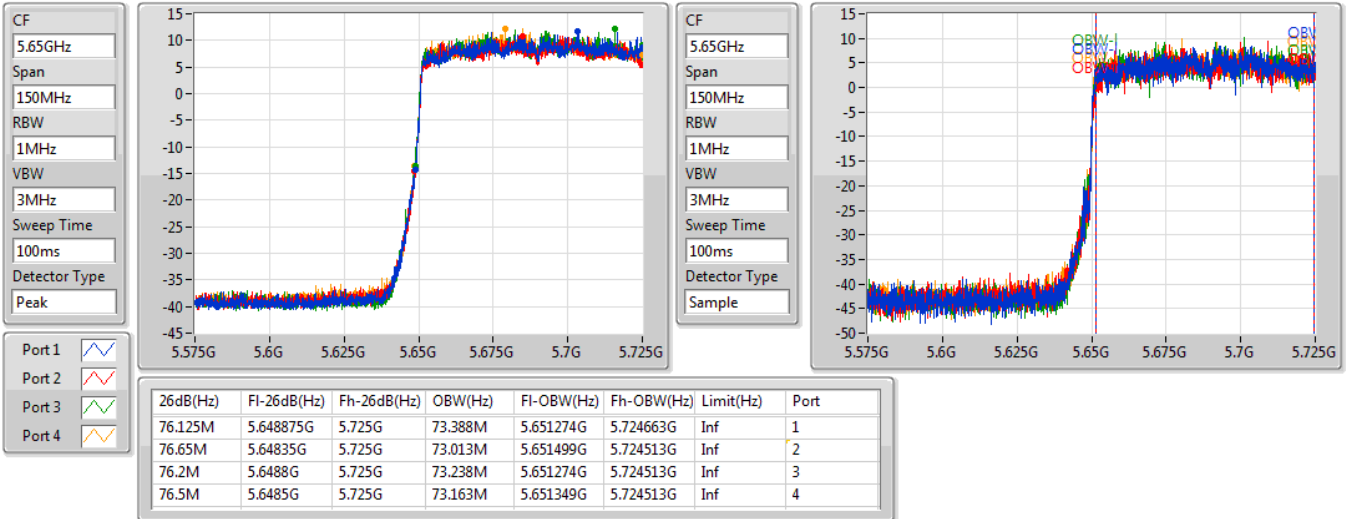

802.11ax HEW80_Nss1,(MCS0)_4TX
EBW
5610MHz

03/08/2019

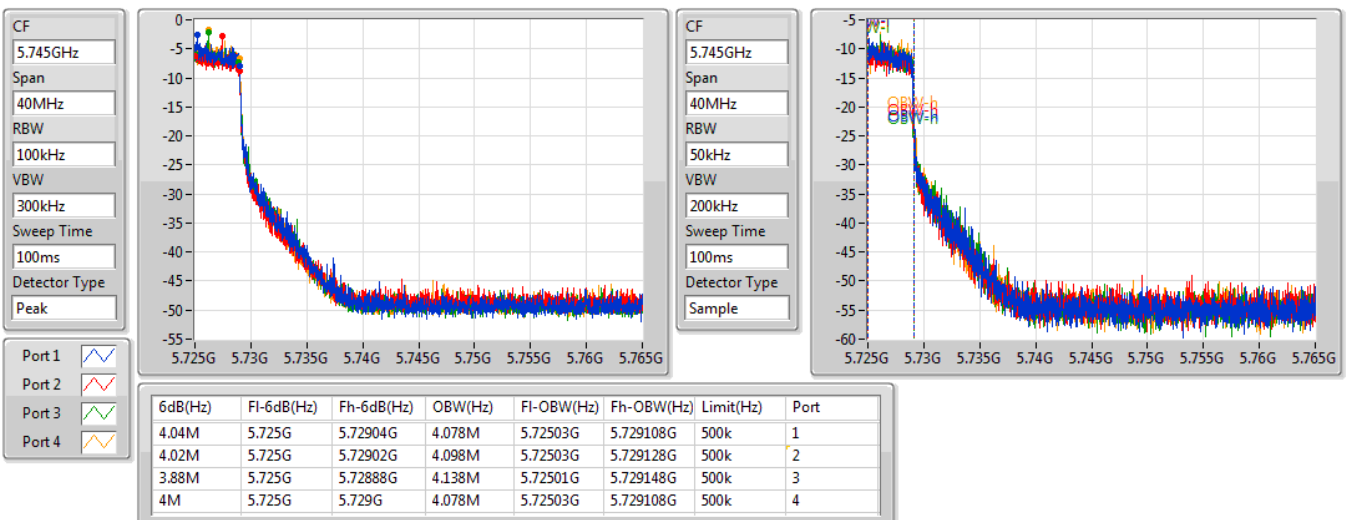


802.11ax HEW80_Nss1,(MCS0)_4TX
EBW
5690MHz Straddle 5.47-5.725GHz

03/08/2019


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

03/08/2019



Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.25-5.35GHz	-	-	-	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	22.02M	18.951M	19M0D1D	21.3M	18.831M
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	41.4M	37.721M	37M7D1D	40.32M	37.601M
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	81.96M	77.121M	77M1D1D	81.24M	76.882M
5.47-5.725GHz	-	-	-	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	22.08M	18.921M	18M9D1D	15.615M	14.468M
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	41.28M	37.781M	37M8D1D	35.315M	33.723M
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	81.48M	77.121M	77M1D1D	75.3M	73.013M
5.725-5.85GHz	-	-	-	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	4.42M	4.498M	4M50D1D	4.36M	4.458M
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	4.06M	4.098M	4M10D1D	3.86M	4.038M
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	3.98M	4.198M	4M20D1D	3.76M	4.118M

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

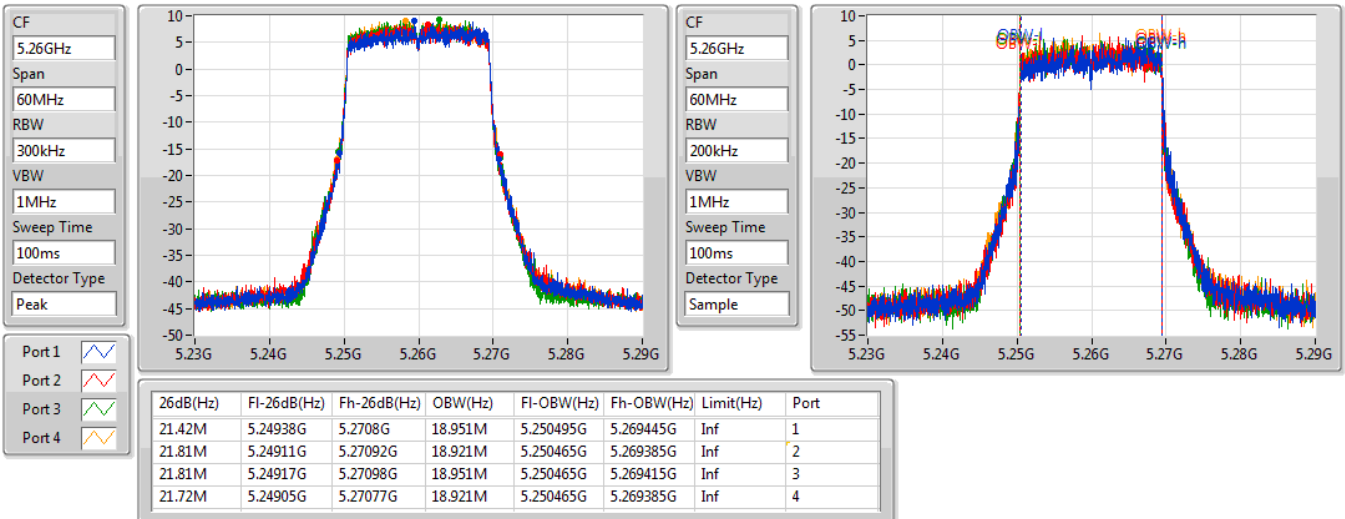
Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)	Port 3-N dB (Hz)	Port 3-OBW (Hz)	Port 4-N dB (Hz)	Port 4-OBW (Hz)
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5260MHz	Pass	Inf	21.42M	18.951M	21.81M	18.921M	21.81M	18.951M	21.72M	18.921M
5300MHz	Pass	Inf	22.02M	18.831M	21.66M	18.921M	21.3M	18.861M	21.99M	18.921M
5320MHz	Pass	Inf	21.39M	18.891M	21.9M	18.891M	21.54M	18.921M	21.75M	18.891M
5500MHz	Pass	Inf	21.75M	18.891M	21.87M	18.861M	21.6M	18.921M	22.08M	18.921M
5580MHz	Pass	Inf	21.96M	18.921M	21.99M	18.921M	21.81M	18.921M	21.57M	18.921M
5700MHz	Pass	Inf	21.78M	18.891M	21.57M	18.831M	21.6M	18.861M	21.78M	18.921M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	15.72M	14.498M	15.915M	14.468M	15.615M	14.498M	15.735M	14.498M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	4.38M	4.498M	4.42M	4.458M	4.42M	4.478M	4.36M	4.498M
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5270MHz	Pass	Inf	40.98M	37.721M	41.1M	37.721M	40.86M	37.601M	40.32M	37.721M
5310MHz	Pass	Inf	40.62M	37.721M	41.34M	37.721M	41.4M	37.661M	40.74M	37.721M
5510MHz	Pass	Inf	40.92M	37.661M	41.1M	37.661M	40.92M	37.781M	40.5M	37.721M
5550MHz	Pass	Inf	41.04M	37.721M	40.86M	37.721M	41.28M	37.721M	41.16M	37.721M
5670MHz	Pass	Inf	40.92M	37.541M	40.98M	37.661M	40.32M	37.661M	40.56M	37.781M
5710MHz Straddle 5.47-5.725GHz	Pass	Inf	35.525M	33.758M	35.56M	33.758M	36.015M	33.723M	35.315M	33.758M
5710MHz Straddle 5.725-5.85GHz	Pass	500k	3.92M	4.098M	4.06M	4.098M	3.86M	4.038M	3.98M	4.038M
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5290MHz	Pass	Inf	81.24M	77.001M	81.96M	77.121M	81.24M	77.001M	81.48M	76.882M
5530MHz	Pass	Inf	81.12M	76.882M	81.48M	77.121M	81.24M	77.121M	81.12M	77.121M
5610MHz	Pass	Inf	81.48M	77.001M	80.76M	76.642M	81.12M	76.882M	81.12M	76.882M
5690MHz Straddle 5.47-5.725GHz	Pass	Inf	75.375M	73.088M	75.525M	73.013M	75.3M	73.088M	75.45M	73.088M
5690MHz Straddle 5.725-5.85GHz	Pass	500k	3.98M	4.178M	3.76M	4.198M	3.98M	4.118M	3.98M	4.118M

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

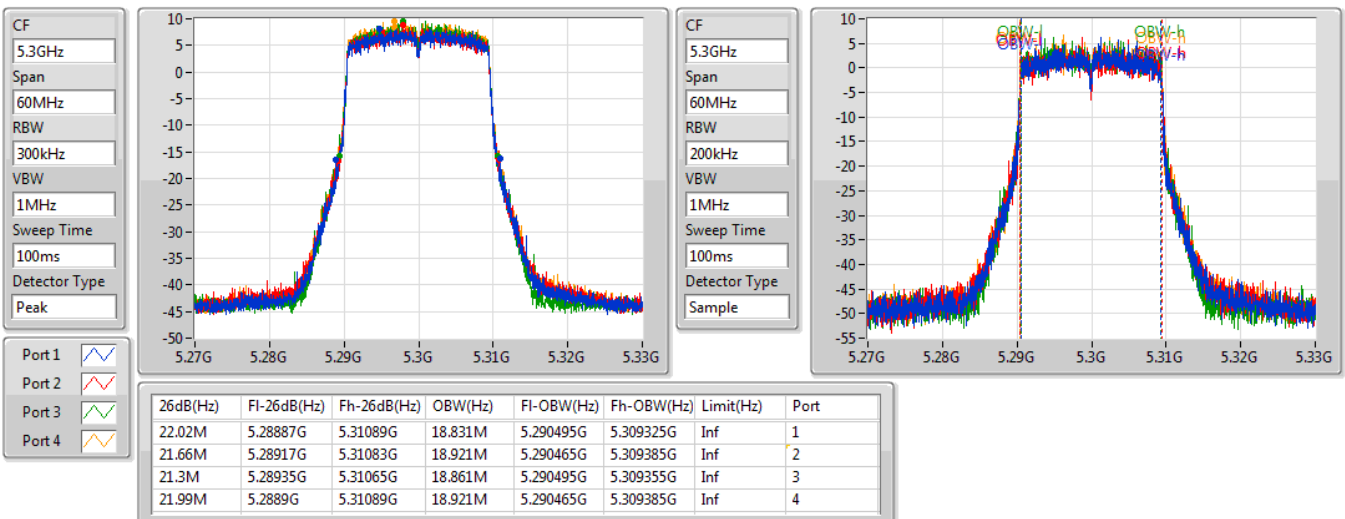
Port X-OBW = Port X 99% occupied bandwidth;

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

07/08/2019

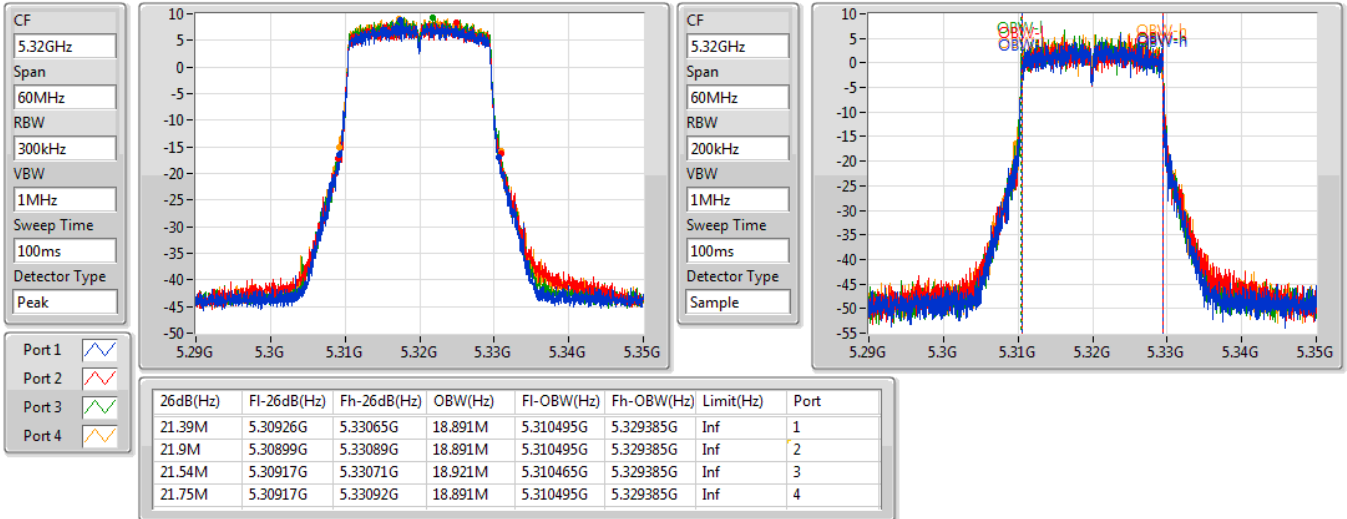

802.11ax HEW20-BF_Nss1,(MCS0)_4TX
EBW
5300MHz

07/08/2019

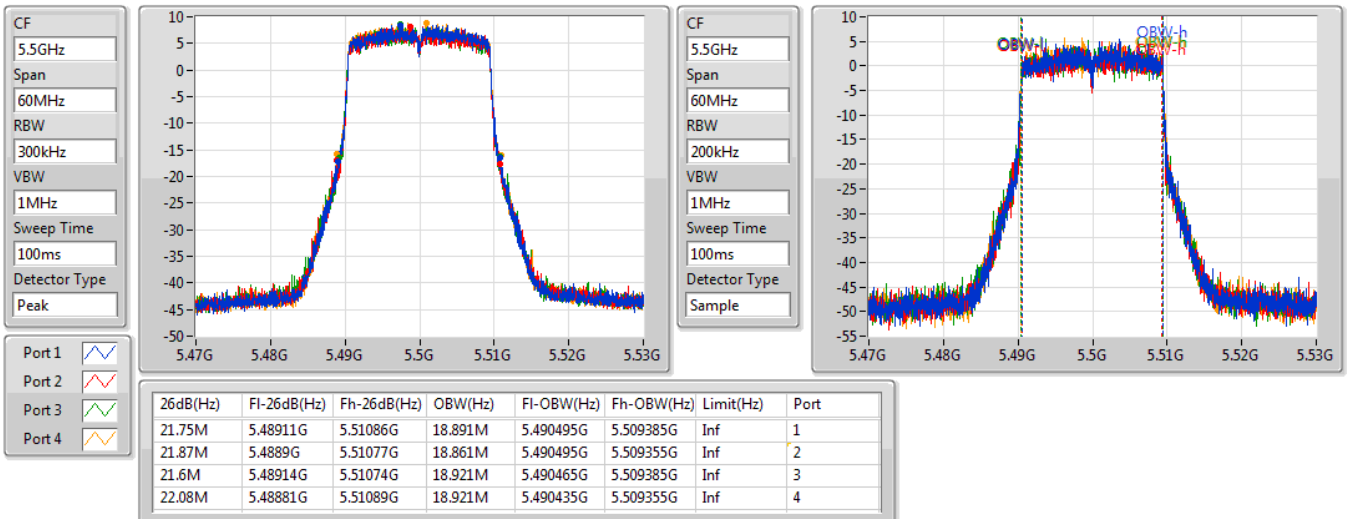


802.11ax HEW20-BF_Nss1,(MCS0)_4TX
EBW
5320MHz

07/08/2019

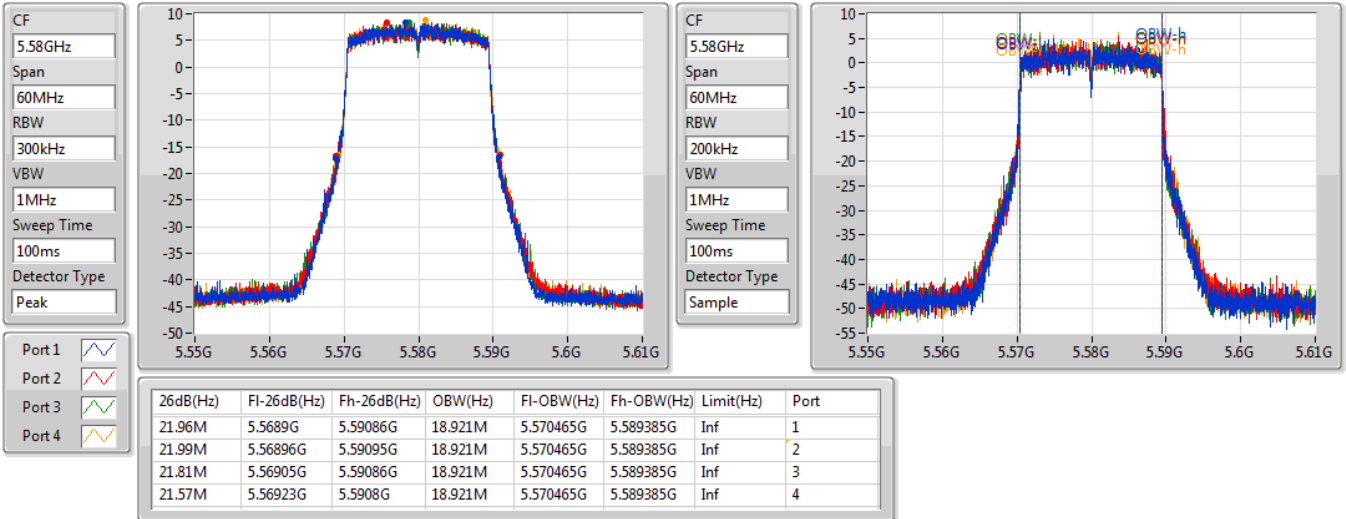

802.11ax HEW20-BF_Nss1,(MCS0)_4TX
EBW
5500MHz

07/08/2019

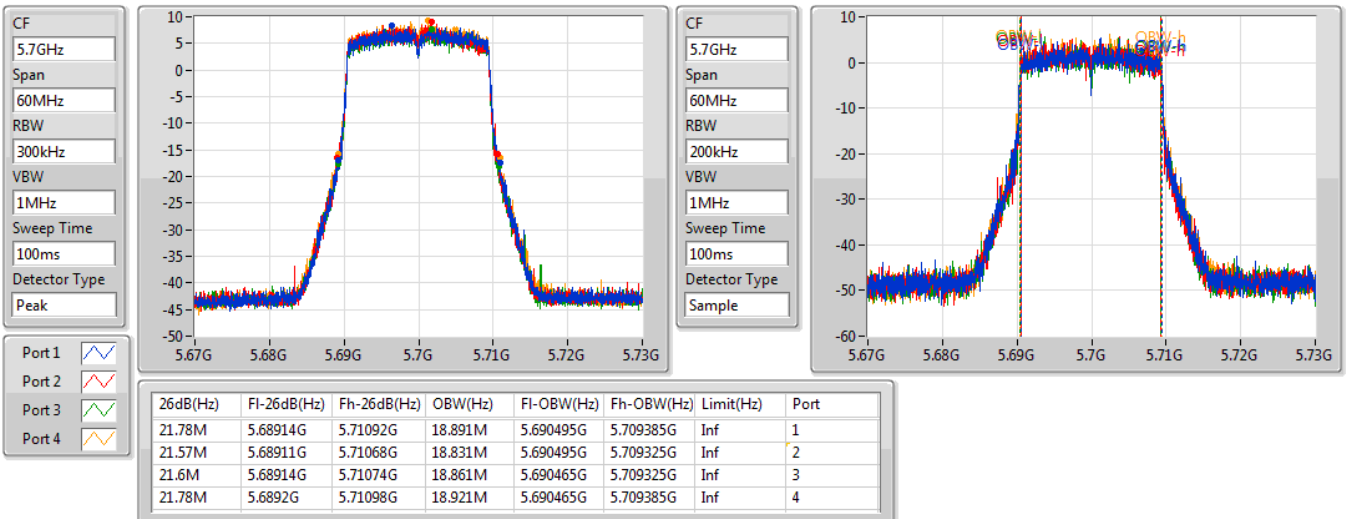


802.11ax HEW20-BF_Nss1,(MCS0)_4TX
EBW
5580MHz

07/08/2019

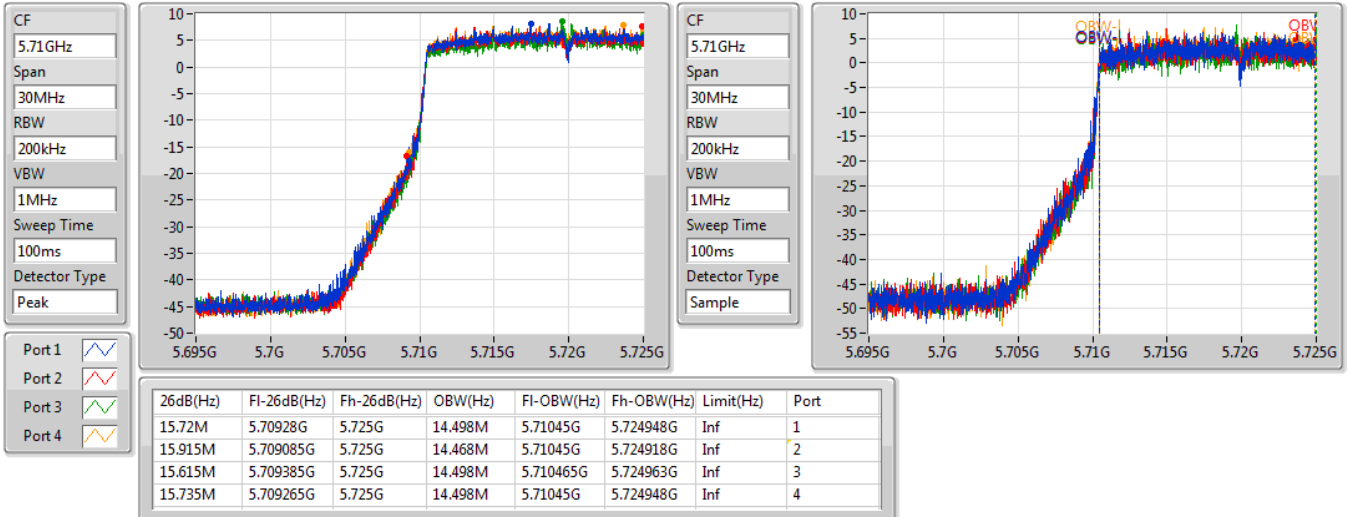

802.11ax HEW20-BF_Nss1,(MCS0)_4TX
EBW
5700MHz

07/08/2019

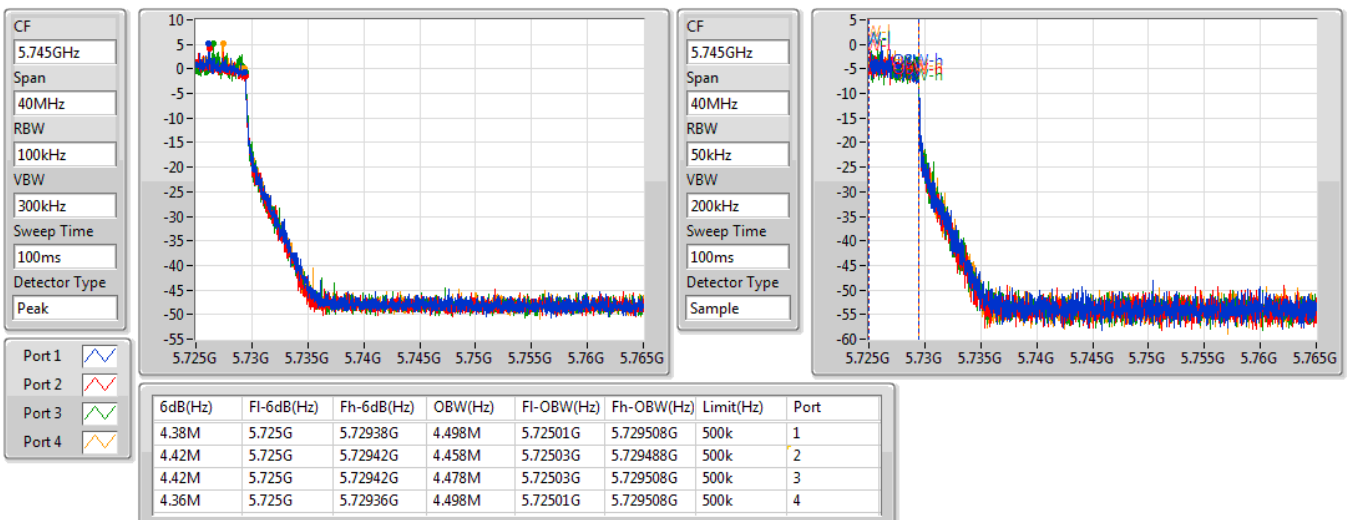


802.11ax HEW20-BF_Nss1,(MCS0)_4TX
EBW
5720MHz Straddle 5.47-5.725GHz

07/08/2019

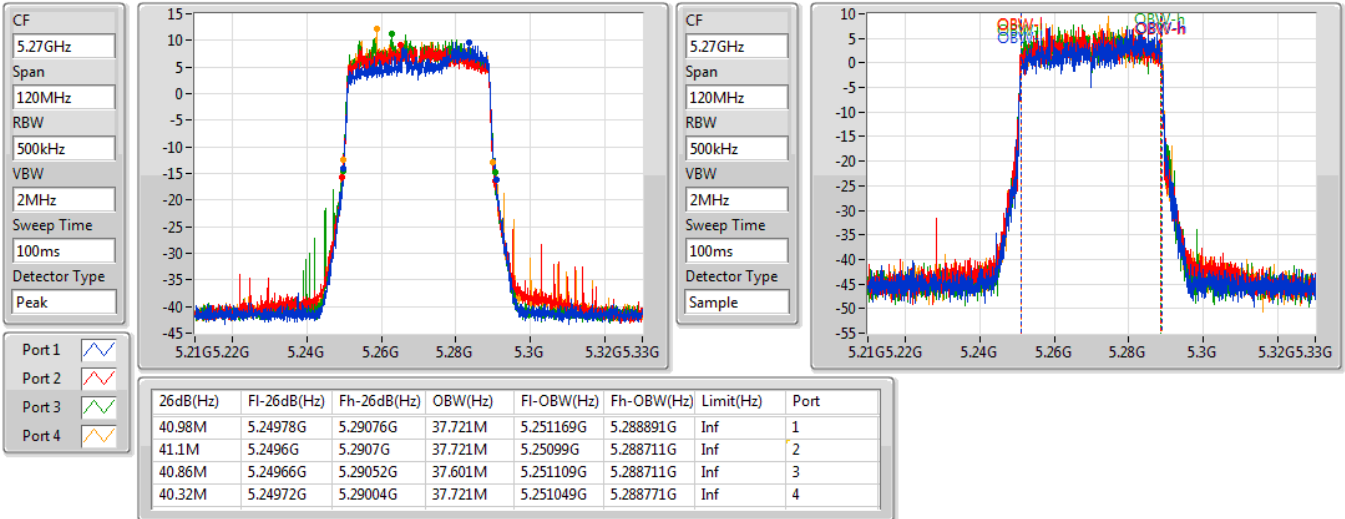

802.11ax HEW20-BF_Nss1,(MCS0)_4TX
EBW
5720MHz Straddle 5.725-5.85GHz

07/08/2019

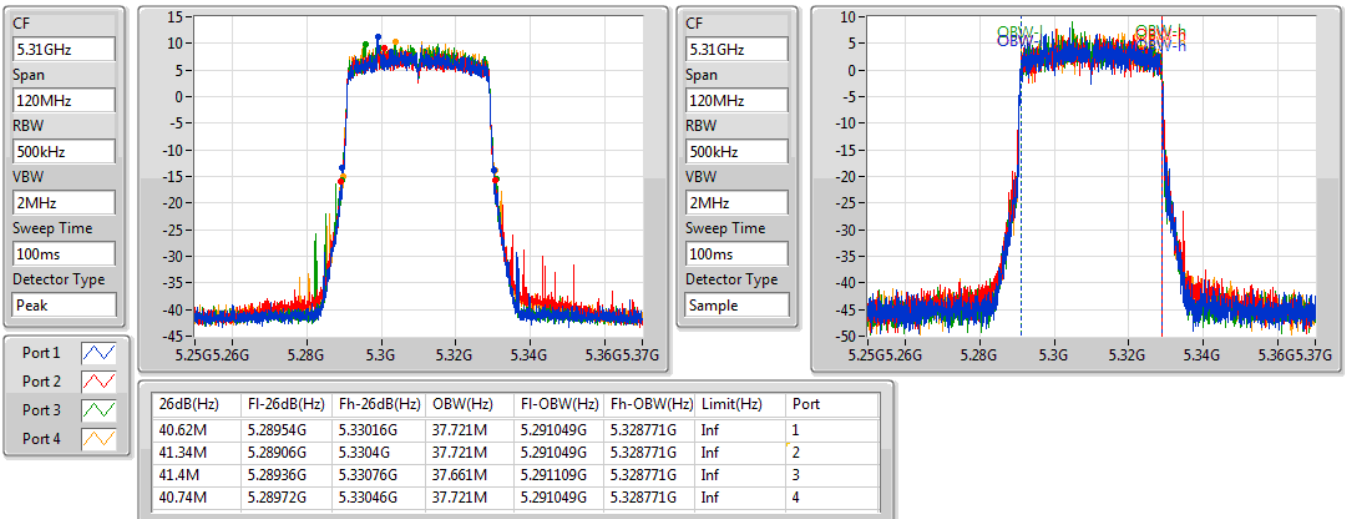


802.11ax HEW40-BF_Nss1,(MCS0)_4TX
EBW
5270MHz

07/08/2019

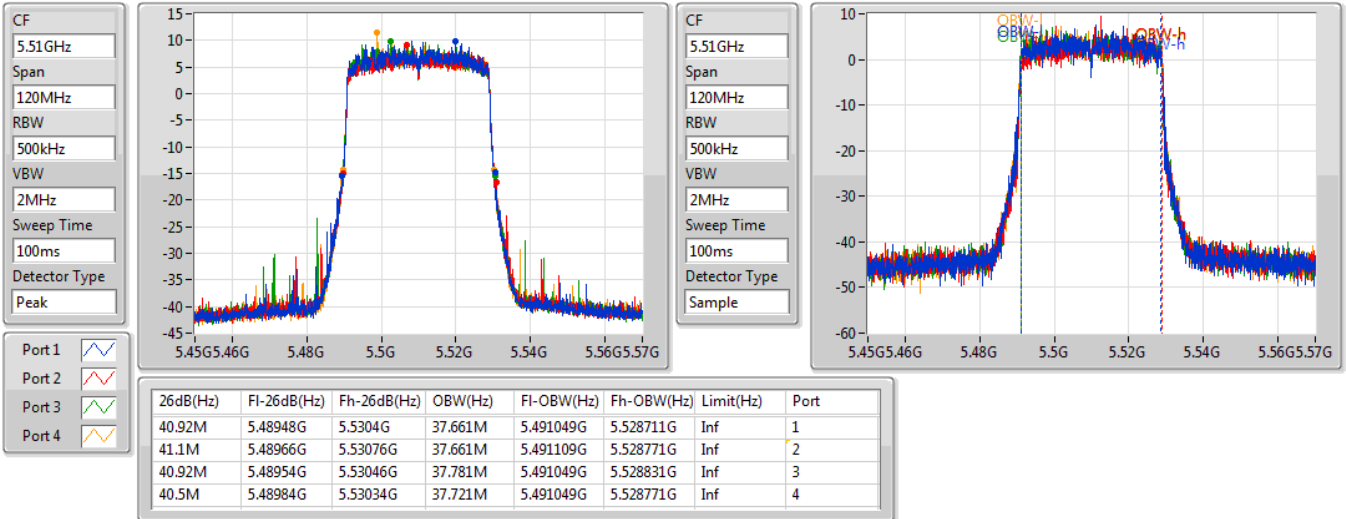

802.11ax HEW40-BF_Nss1,(MCS0)_4TX
EBW
5310MHz

07/08/2019

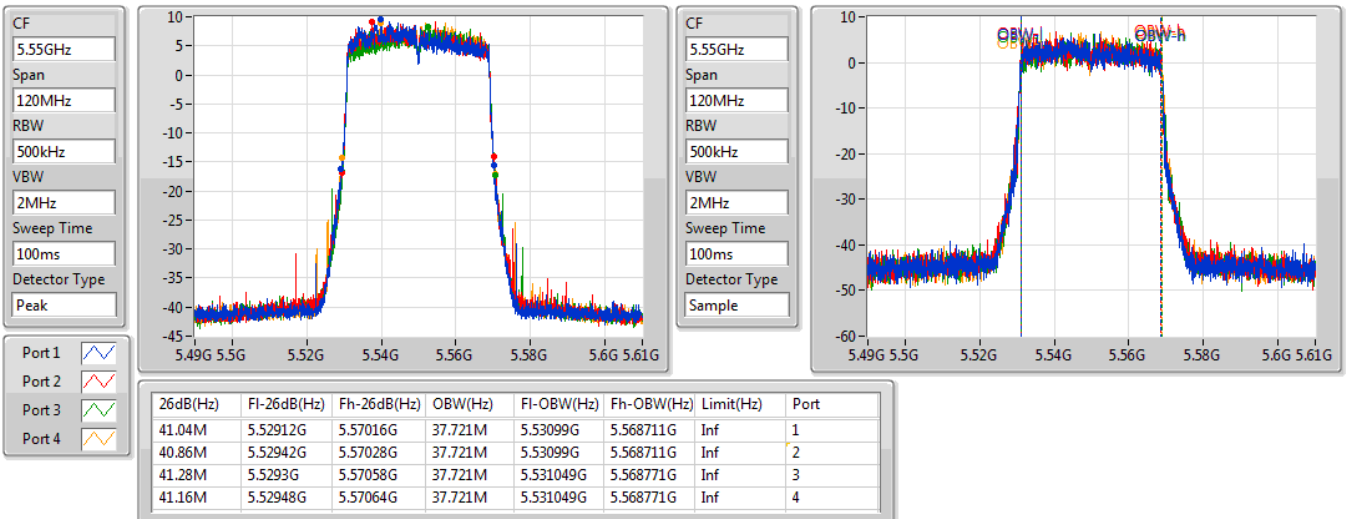


802.11ax HEW40-BF_Nss1,(MCS0)_4TX
EBW
5510MHz

07/08/2019

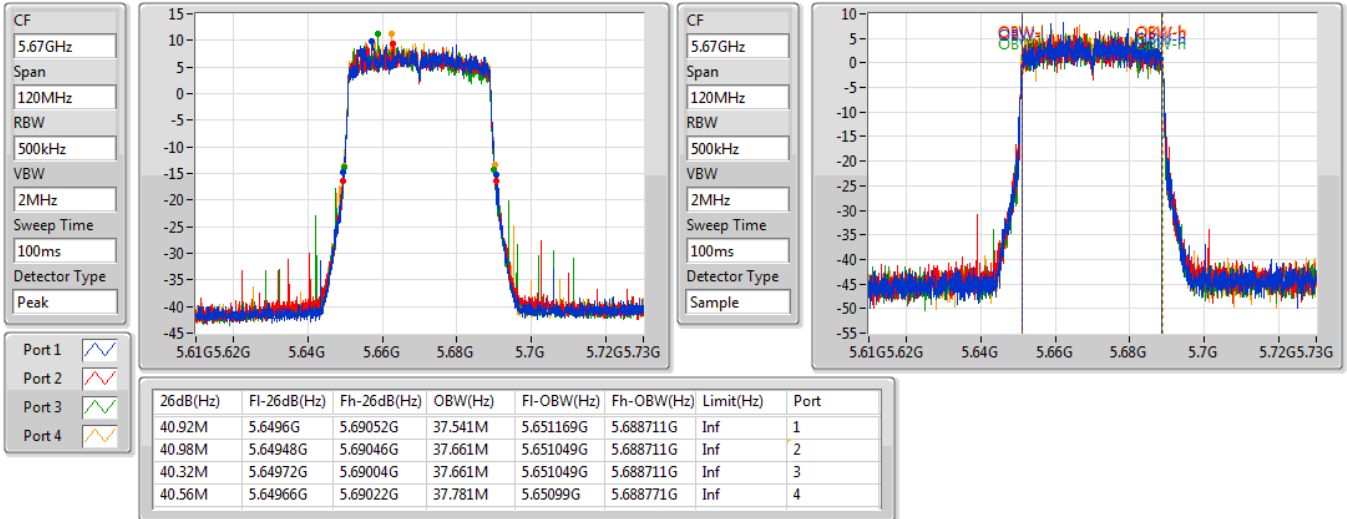

802.11ax HEW40-BF_Nss1,(MCS0)_4TX
EBW
5550MHz

07/08/2019

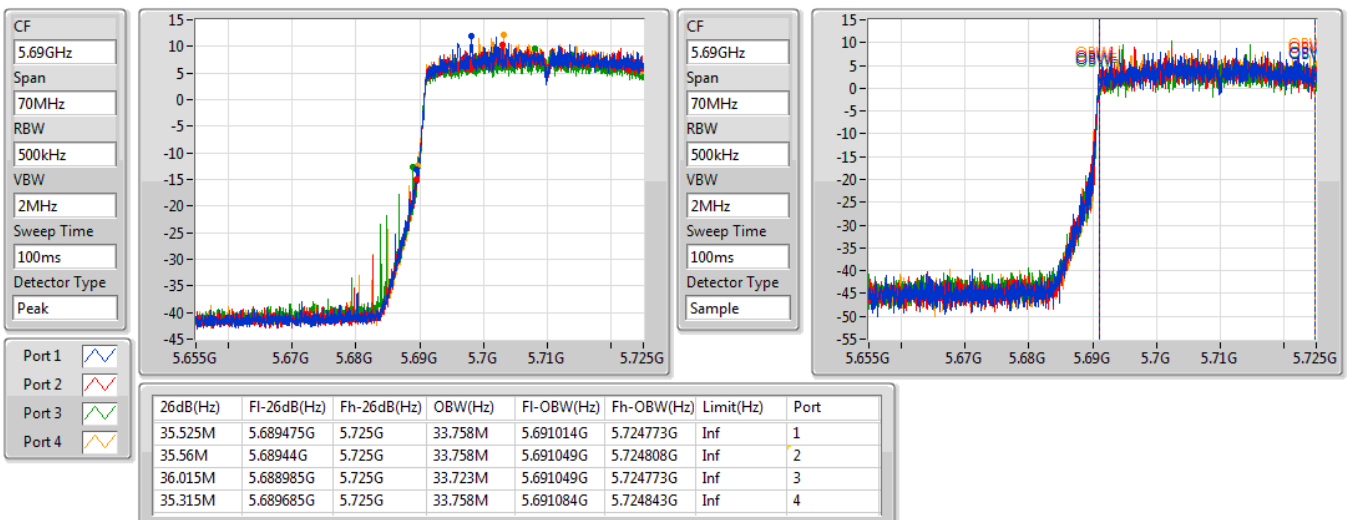


802.11ax HEW40-BF_Nss1,(MCS0)_4TX
EBW
5670MHz

07/08/2019

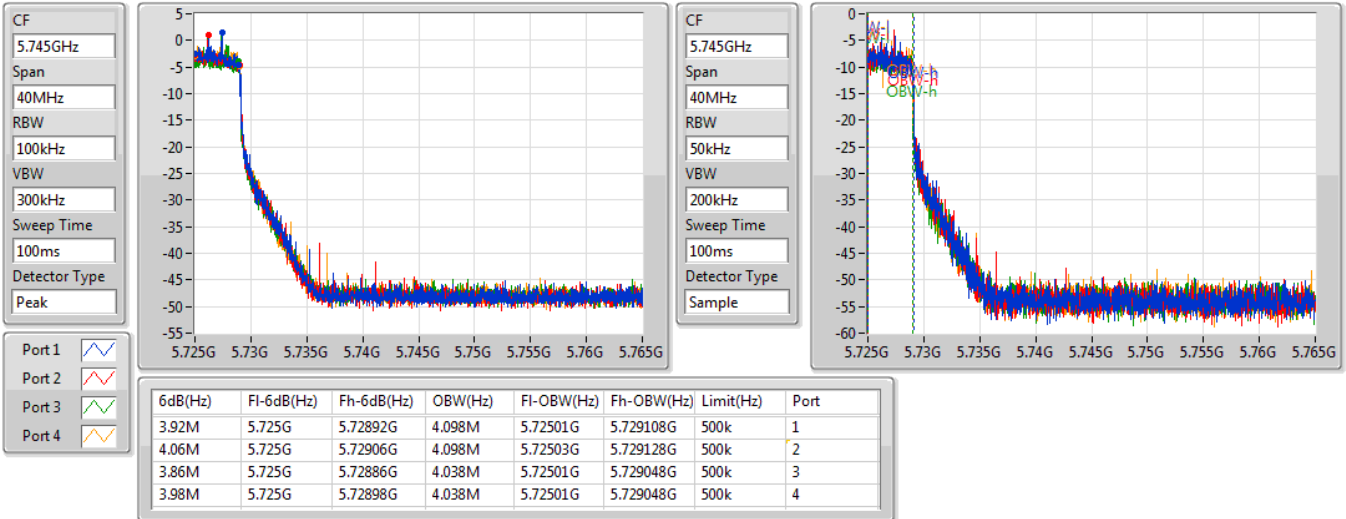

802.11ax HEW40-BF_Nss1,(MCS0)_4TX
EBW
5710MHz Straddle 5.47-5.725GHz

07/08/2019

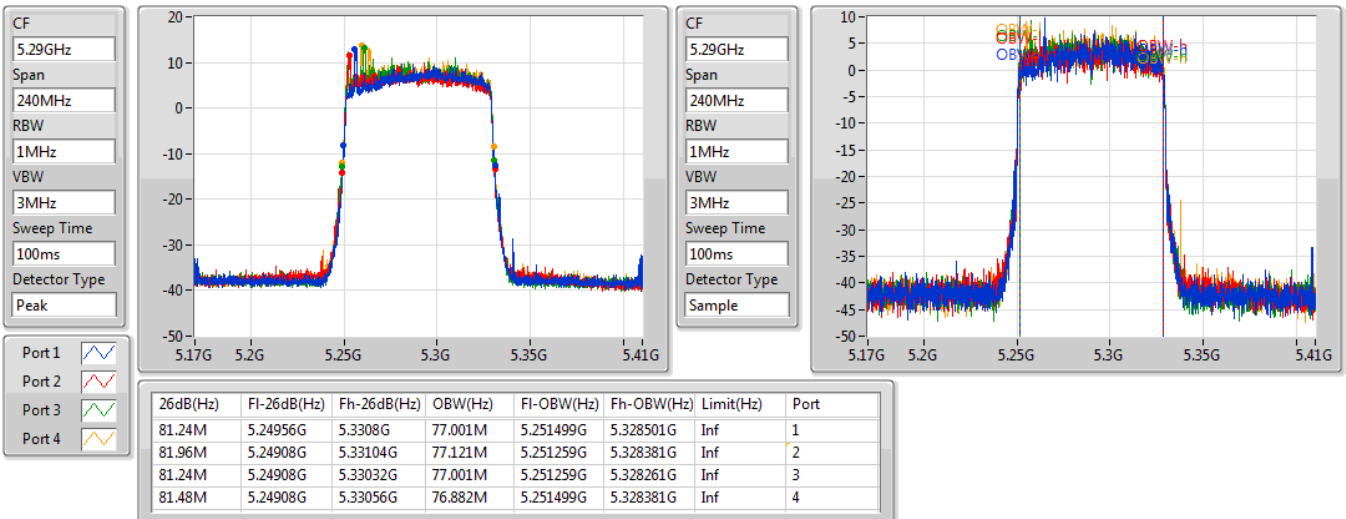


802.11ax HEW40-BF_Nss1,(MCS0)_4TX
EBW
5710MHz Straddle 5.725-5.85GHz

07/08/2019

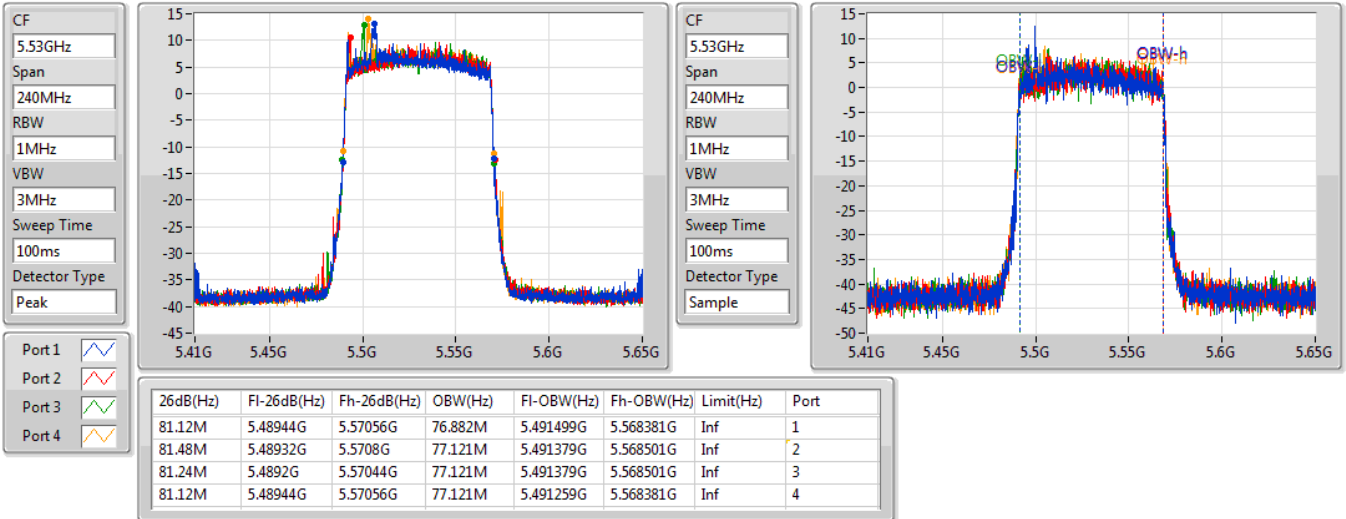

802.11ax HEW80-BF_Nss1,(MCS0)_4TX
EBW
5290MHz

07/08/2019

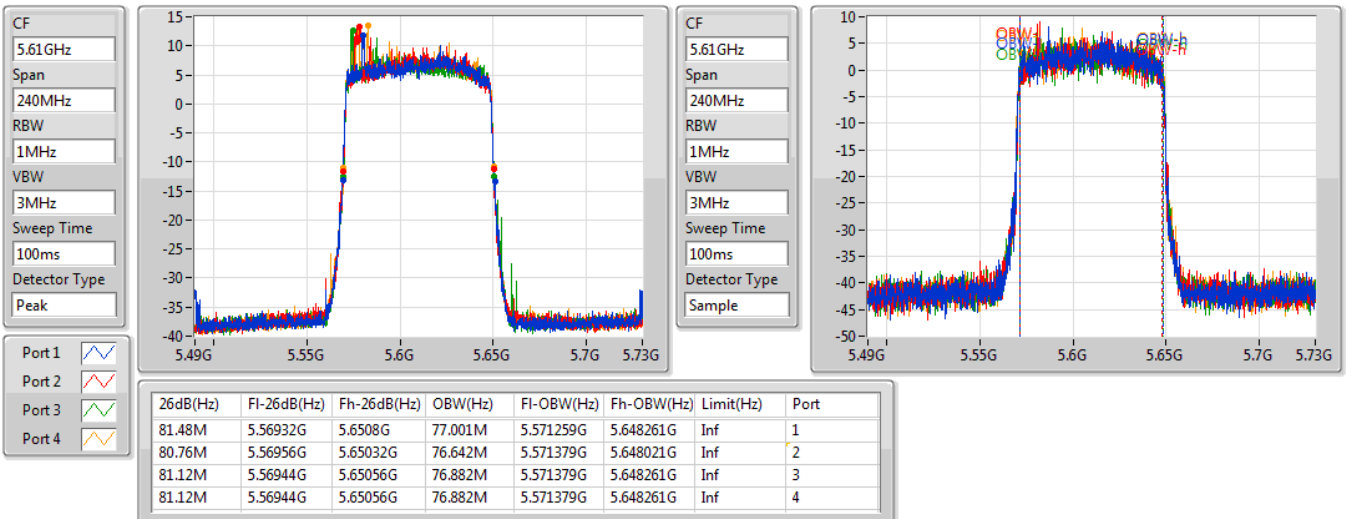


802.11ax HEW80-BF_Nss1,(MCS0)_4TX
EBW
5530MHz

07/08/2019

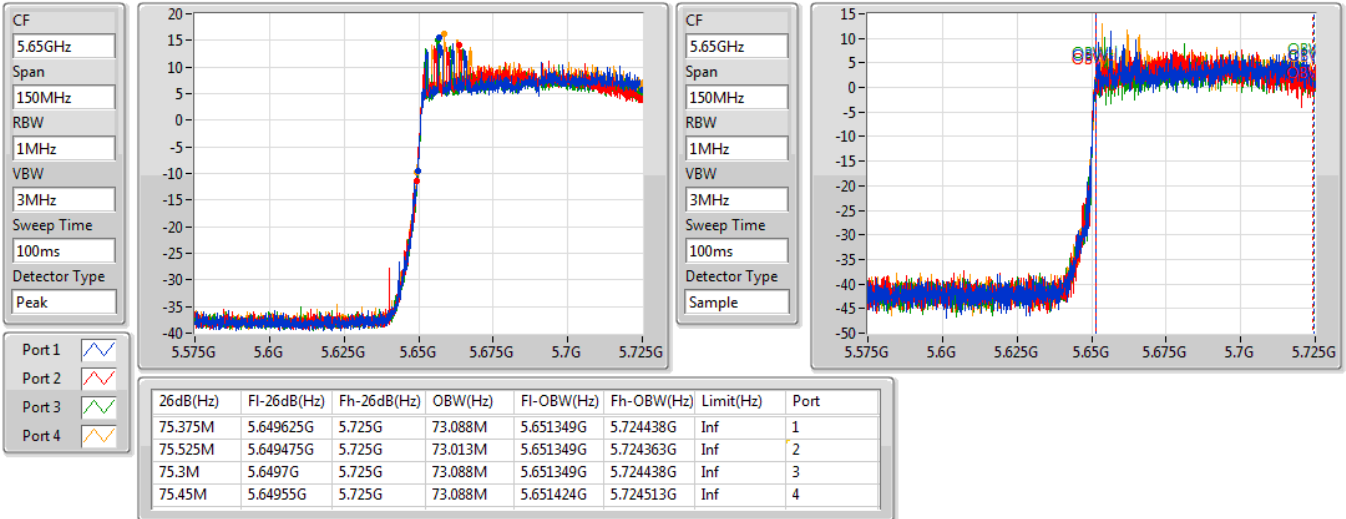

802.11ax HEW80-BF_Nss1,(MCS0)_4TX
EBW
5610MHz

07/08/2019

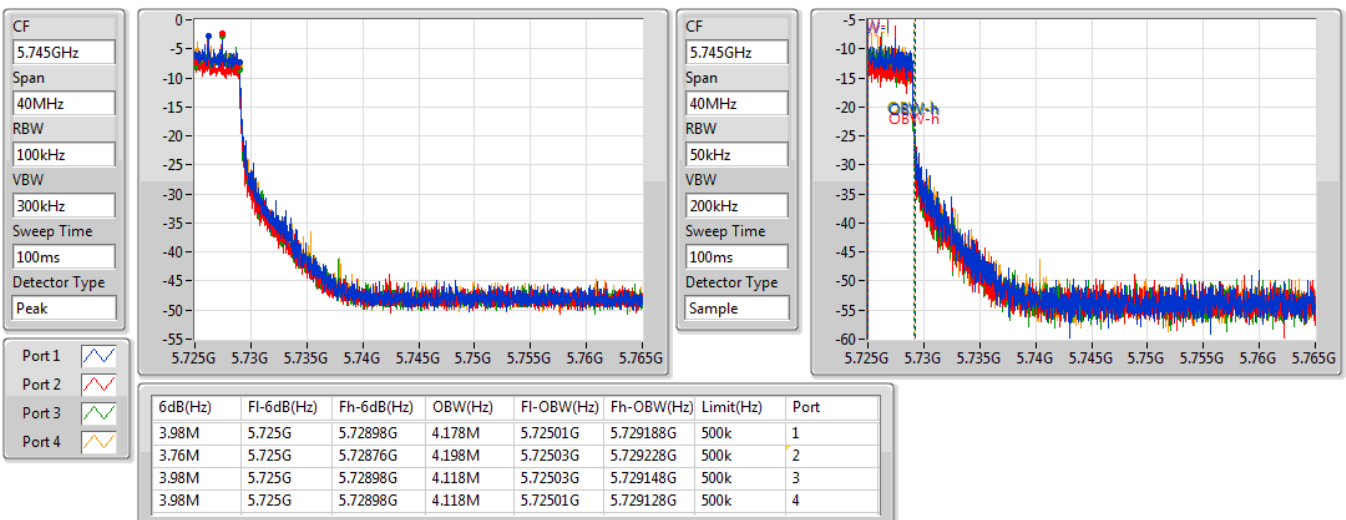


802.11ax HEW80-BF_Nss1,(MCS0)_4TX
EBW
5690MHz Straddle 5.47-5.725GHz

07/08/2019


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

07/08/2019



Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.25-5.35GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	20.61M	16.432M	16M4D1D	20.46M	16.402M
802.11ax HEW20_Nss1,(MCS0)_1TX	22.26M	18.891M	18M9D1D	21.78M	18.891M
802.11ax HEW40_Nss1,(MCS0)_1TX	41.16M	37.781M	37M8D1D	40.98M	37.661M
802.11ax HEW80_Nss1,(MCS0)_1TX	82.2M	77.001M	77M0D1D	82.2M	77.001M
5.47-5.725GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	20.76M	16.402M	16M4D1D	15.36M	13.223M
802.11ax HEW20_Nss1,(MCS0)_1TX	22.41M	18.921M	18M9D1D	16.095M	14.468M
802.11ax HEW40_Nss1,(MCS0)_1TX	41.76M	37.721M	37M7D1D	36.05M	33.793M
802.11ax HEW80_Nss1,(MCS0)_1TX	84M	77.241M	77M2D1D	76.65M	73.238M
5.725-5.85GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	3.08M	3.618M	3M62D1D	3.08M	3.618M
802.11ax HEW20_Nss1,(MCS0)_1TX	4.4M	4.558M	4M56D1D	4.4M	4.558M
802.11ax HEW40_Nss1,(MCS0)_1TX	3.92M	5.797M	5M80D1D	3.92M	5.797M
802.11ax HEW80_Nss1,(MCS0)_1TX	4M	17.971M	18M0D1D	4M	17.971M

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

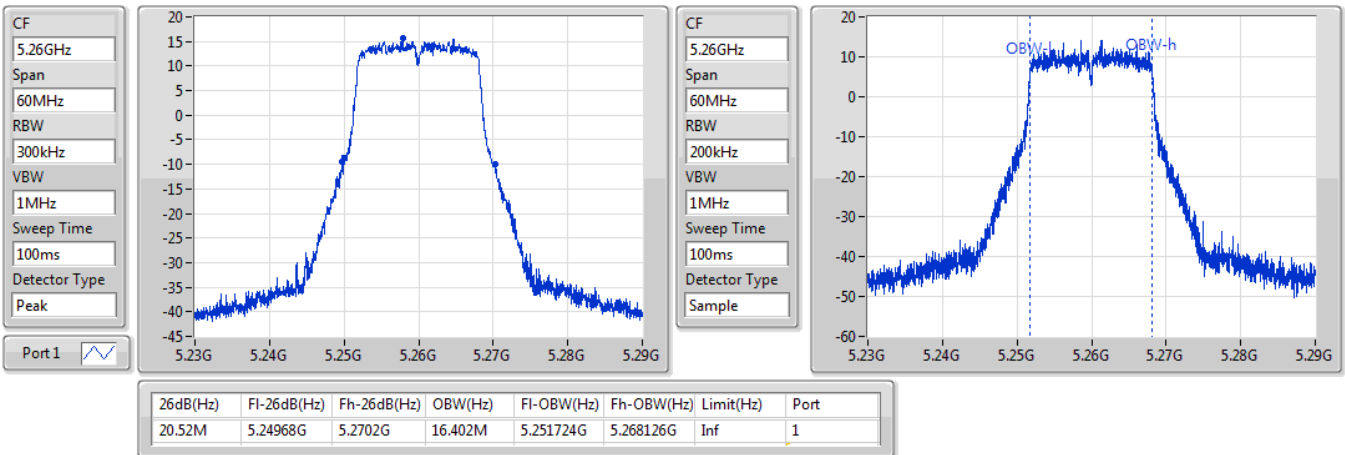
Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
802.11a_Nss1,(6Mbps)_1TX	-	-	-	-
5260MHz	Pass	Inf	20.52M	16.402M
5300MHz	Pass	Inf	20.46M	16.432M
5320MHz	Pass	Inf	20.61M	16.402M
5500MHz	Pass	Inf	20.58M	16.402M
5580MHz	Pass	Inf	20.58M	16.402M
5700MHz	Pass	Inf	20.76M	16.402M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	15.36M	13.223M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	3.08M	3.618M
802.11ax HEW20_Nss1,(MCS0)_1TX	-	-	-	-
5260MHz	Pass	Inf	22.26M	18.891M
5300MHz	Pass	Inf	21.78M	18.891M
5320MHz	Pass	Inf	21.84M	18.891M
5500MHz	Pass	Inf	22.41M	18.921M
5580MHz	Pass	Inf	22.02M	18.921M
5700MHz	Pass	Inf	21.84M	18.921M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	16.095M	14.468M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	4.4M	4.558M
802.11ax HEW40_Nss1,(MCS0)_1TX	-	-	-	-
5270MHz	Pass	Inf	41.16M	37.781M
5310MHz	Pass	Inf	40.98M	37.661M
5510MHz	Pass	Inf	41.76M	37.721M
5550MHz	Pass	Inf	41.34M	37.721M
5670MHz	Pass	Inf	41.34M	37.721M
5710MHz Straddle 5.47-5.725GHz	Pass	Inf	36.05M	33.793M
5710MHz Straddle 5.725-5.85GHz	Pass	500k	3.92M	5.797M
802.11ax HEW80_Nss1,(MCS0)_1TX	-	-	-	-
5290MHz	Pass	Inf	82.2M	77.001M
5530MHz	Pass	Inf	82.32M	76.882M
5610MHz	Pass	Inf	84M	77.241M
5690MHz Straddle 5.47-5.725GHz	Pass	Inf	76.65M	73.238M
5690MHz Straddle 5.725-5.85GHz	Pass	500k	4M	17.971M

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

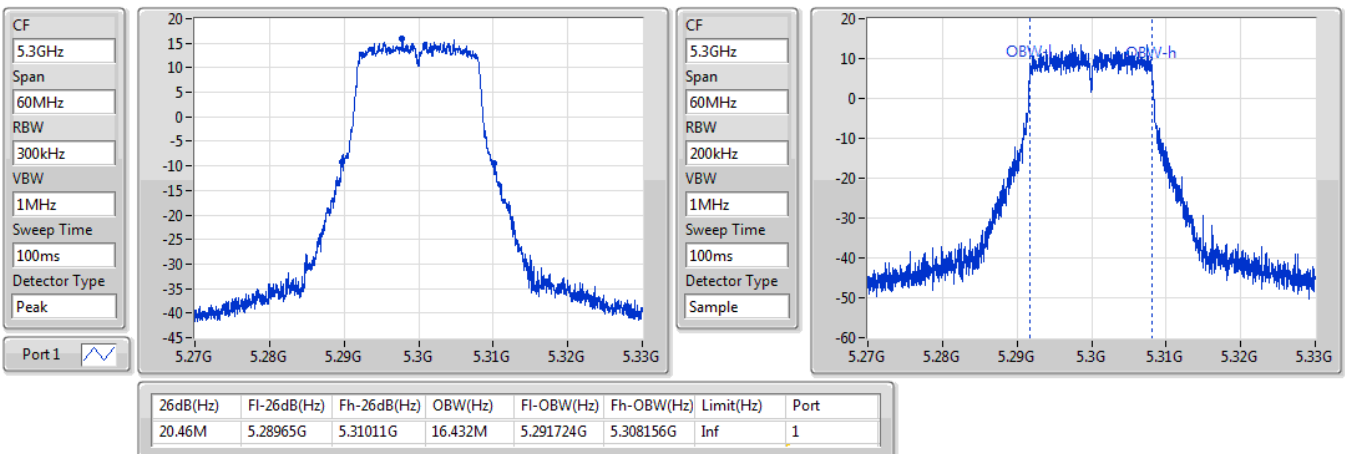
Port X-OBW = Port X 99% occupied bandwidth;

802.11a_Nss1,(6Mbps)_1TX
EBW
5260MHz

03/08/2019

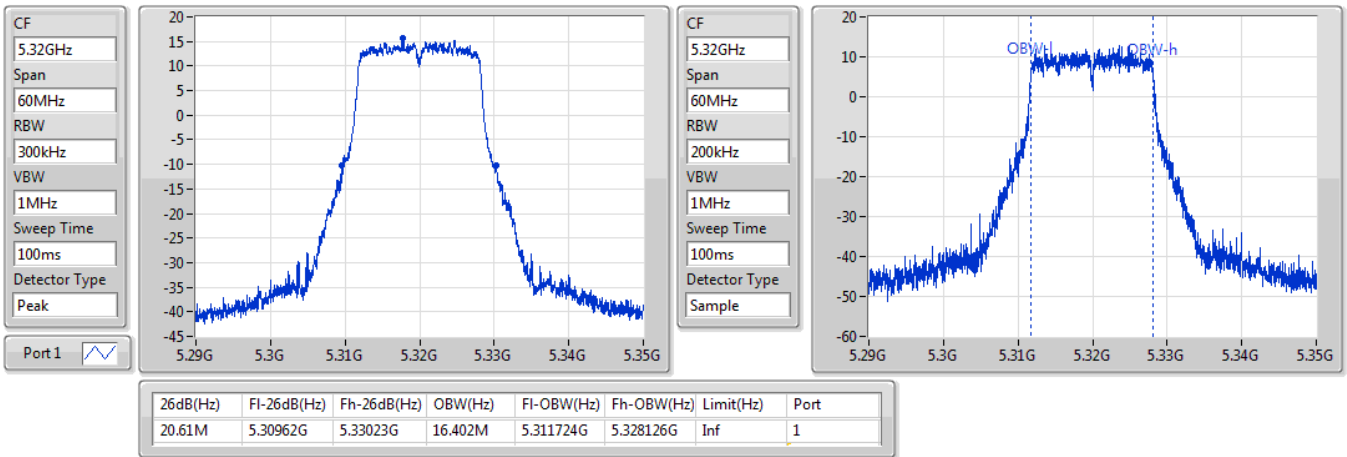

802.11a_Nss1,(6Mbps)_1TX
EBW
5300MHz

03/08/2019

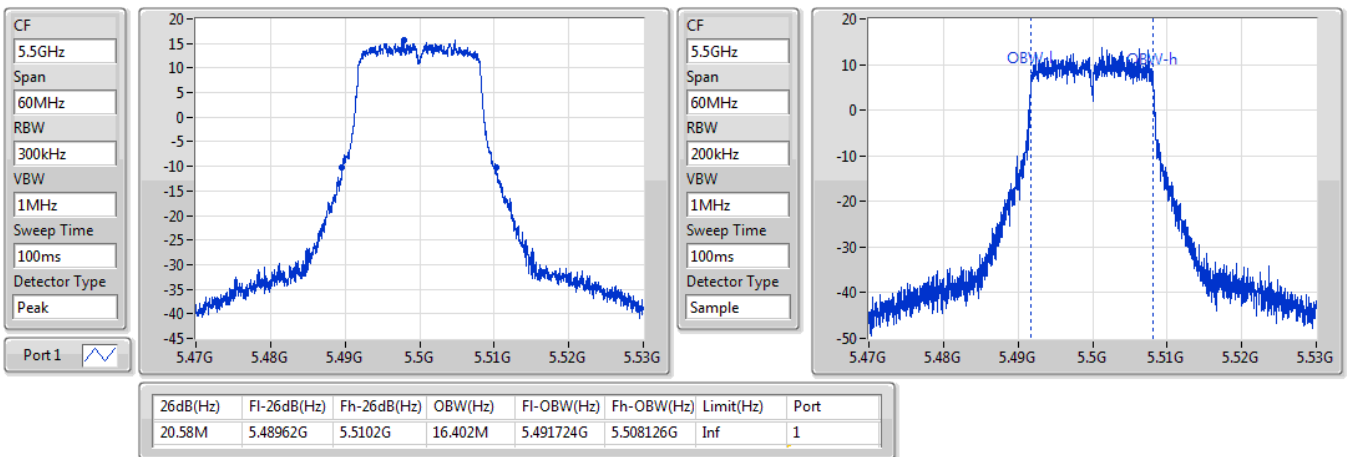


802.11a_Nss1,(6Mbps)_1TX
EBW
5320MHz

03/08/2019

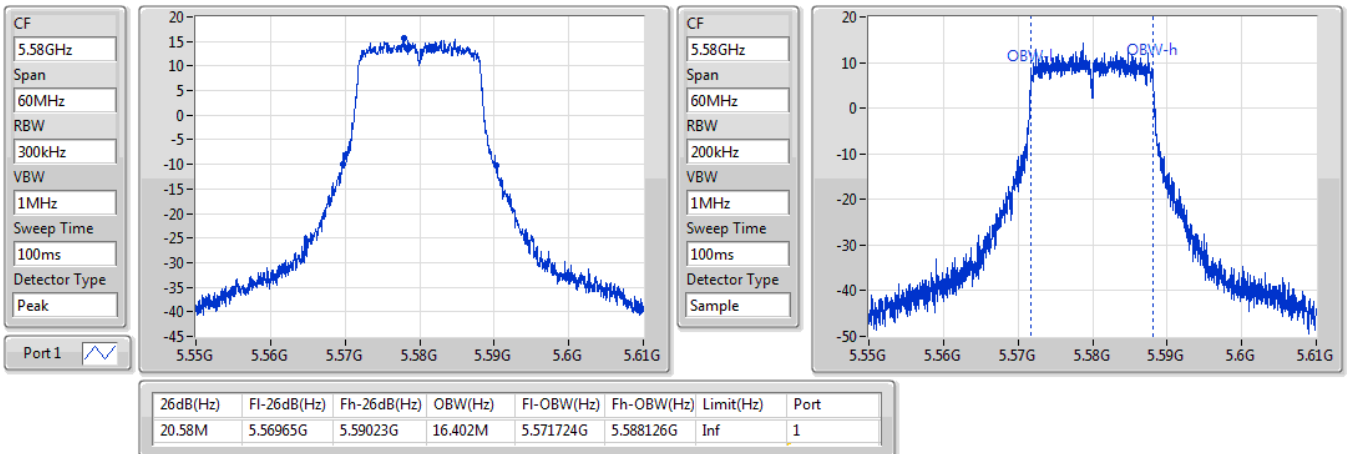

802.11a_Nss1,(6Mbps)_1TX
EBW
5500MHz

03/08/2019

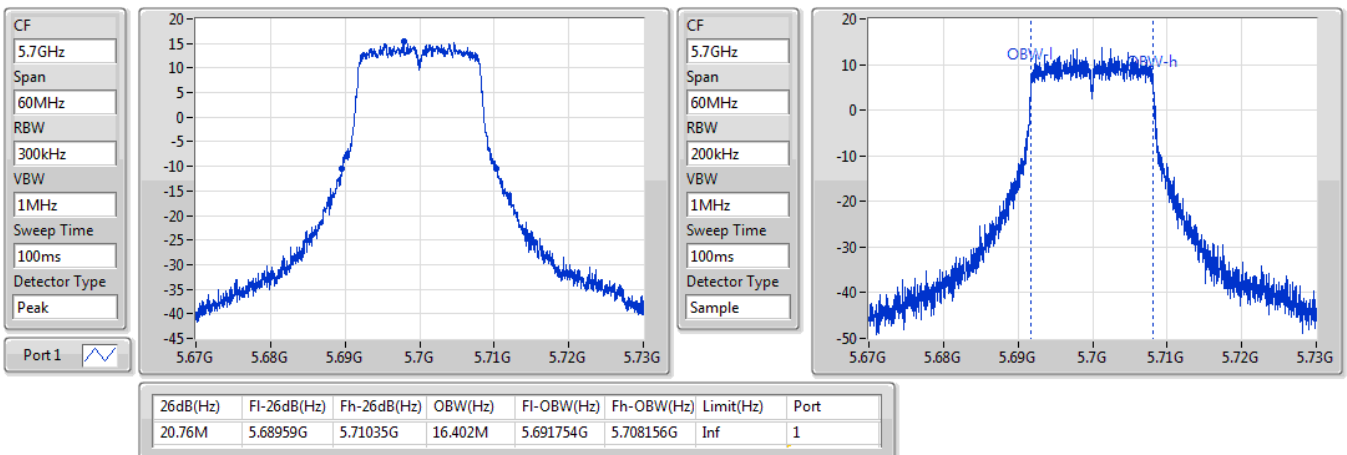


802.11a_Nss1,(6Mbps)_1TX
EBW
5580MHz

03/08/2019

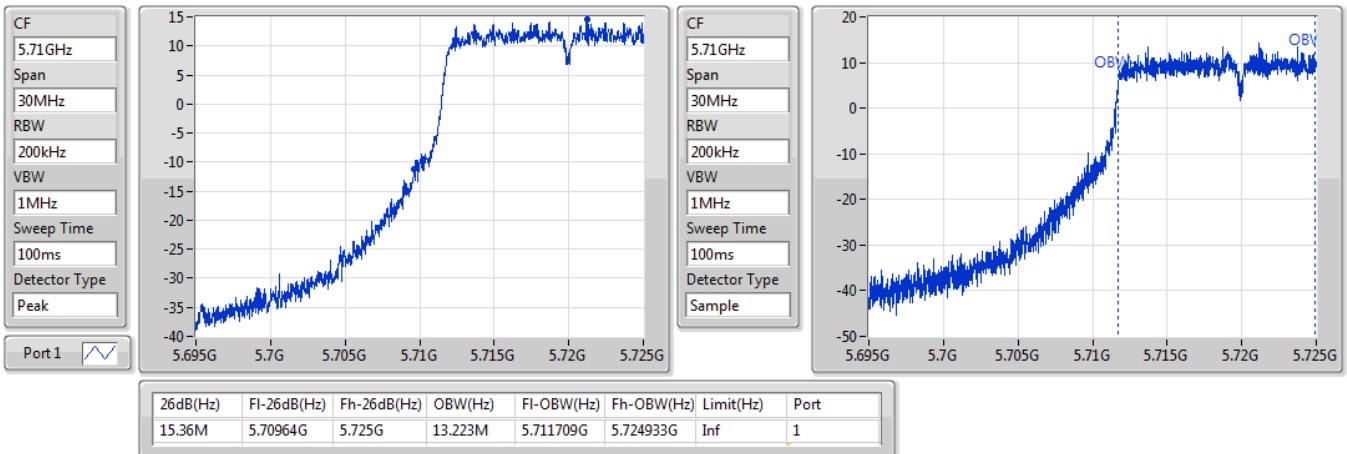

802.11a_Nss1,(6Mbps)_1TX
EBW
5700MHz

03/08/2019

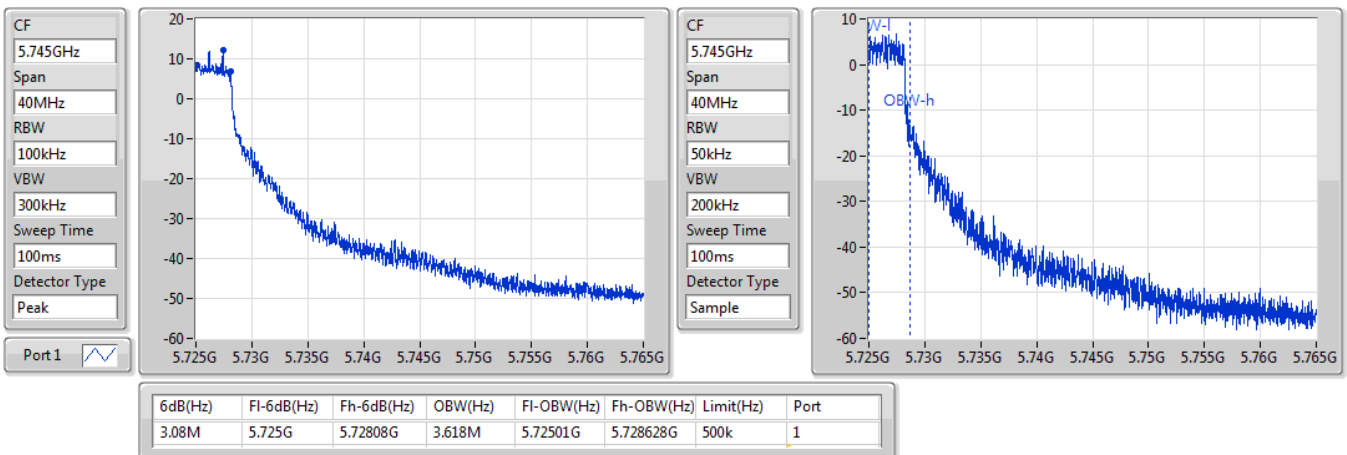


802.11a_Nss1,(6Mbps)_1TX
EBW
5720MHz Straddle 5.47-5.725GHz

03/08/2019

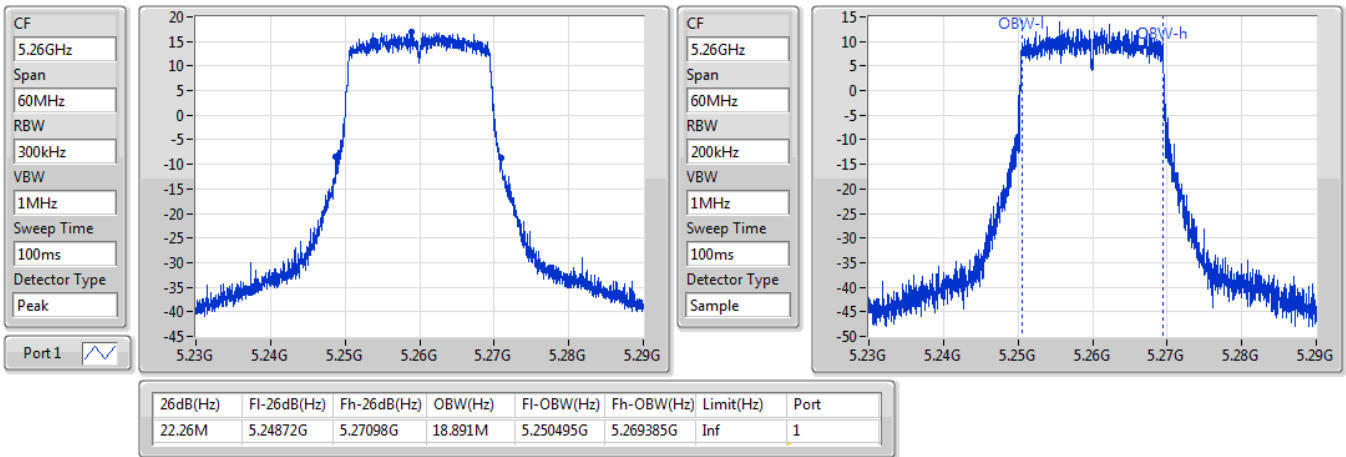

802.11a_Nss1,(6Mbps)_1TX
EBW
5720MHz Straddle 5.725-5.85GHz

03/08/2019

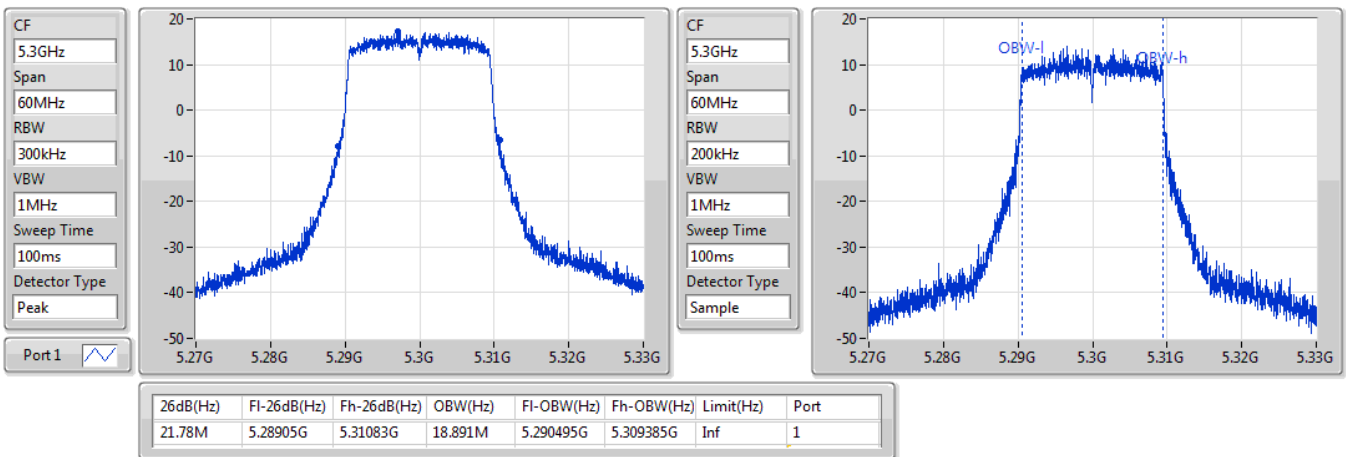


802.11ax HEW20_Nss1,(MCS0)_1TX
EBW
5260MHz

03/08/2019

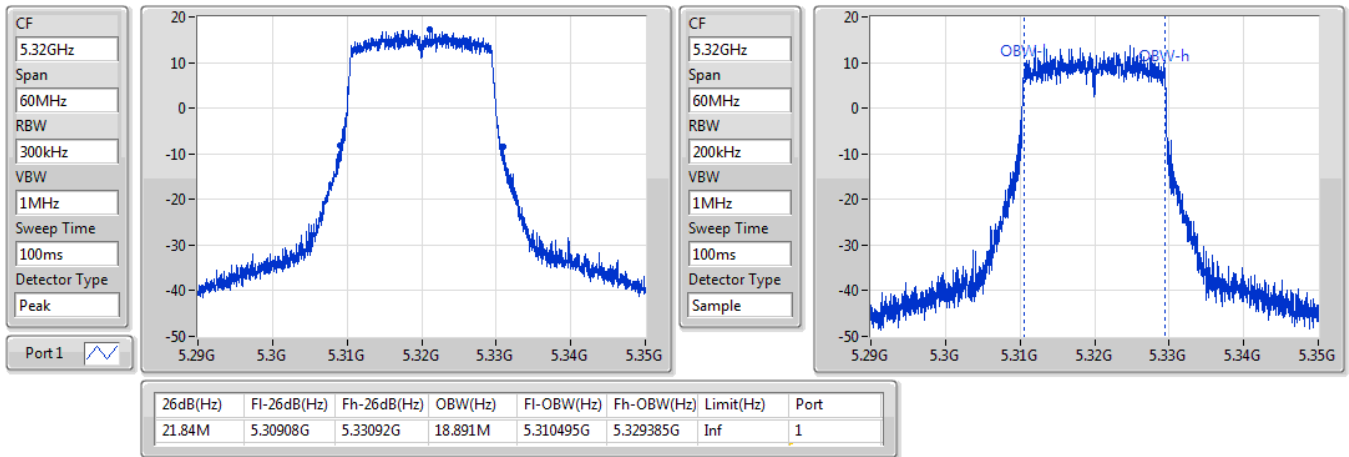

802.11ax HEW20_Nss1,(MCS0)_1TX
EBW
5300MHz

03/08/2019

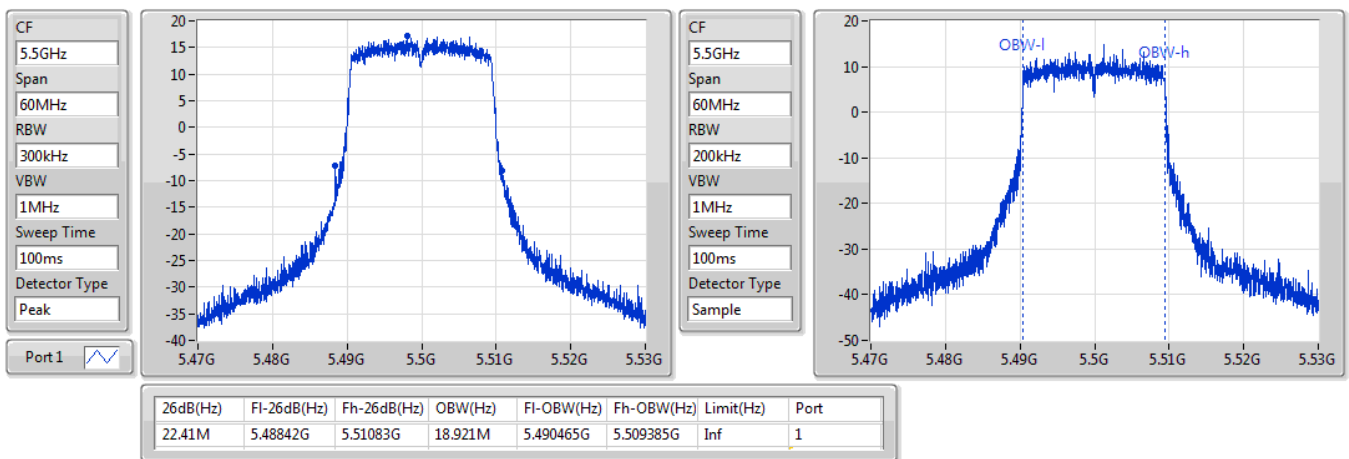


802.11ax HEW20_Nss1,(MCS0)_1TX
EBW
5320MHz

03/08/2019

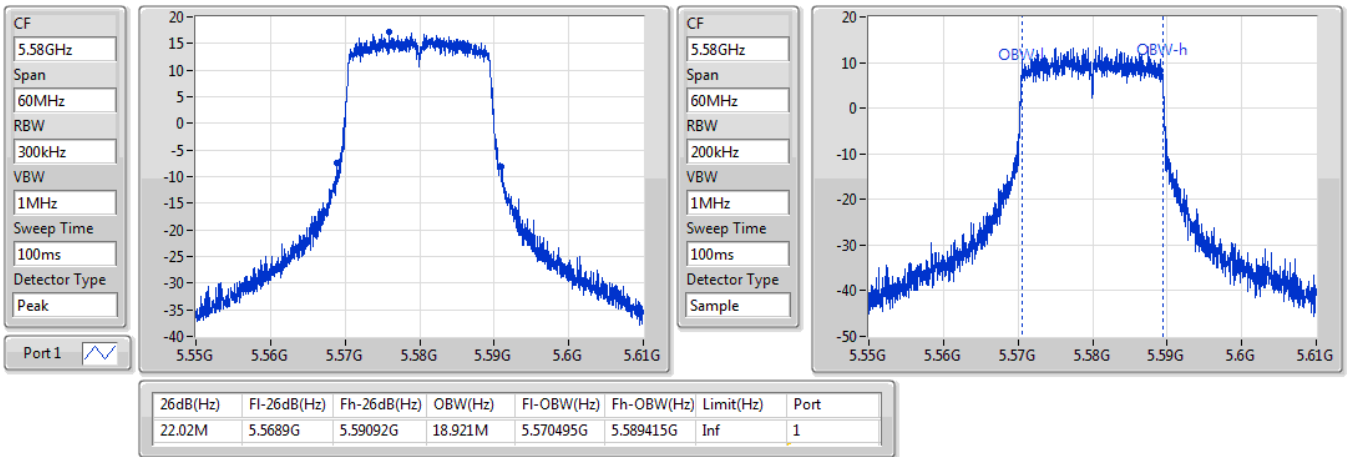

802.11ax HEW20_Nss1,(MCS0)_1TX
EBW
5500MHz

03/08/2019

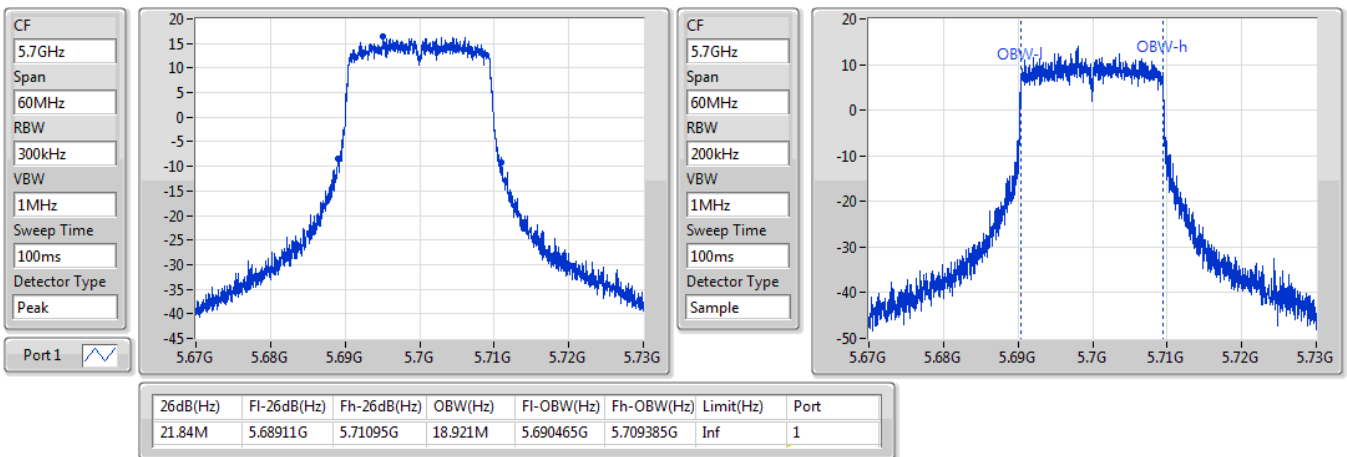


802.11ax HEW20_Nss1,(MCS0)_1TX
EBW
5580MHz

03/08/2019

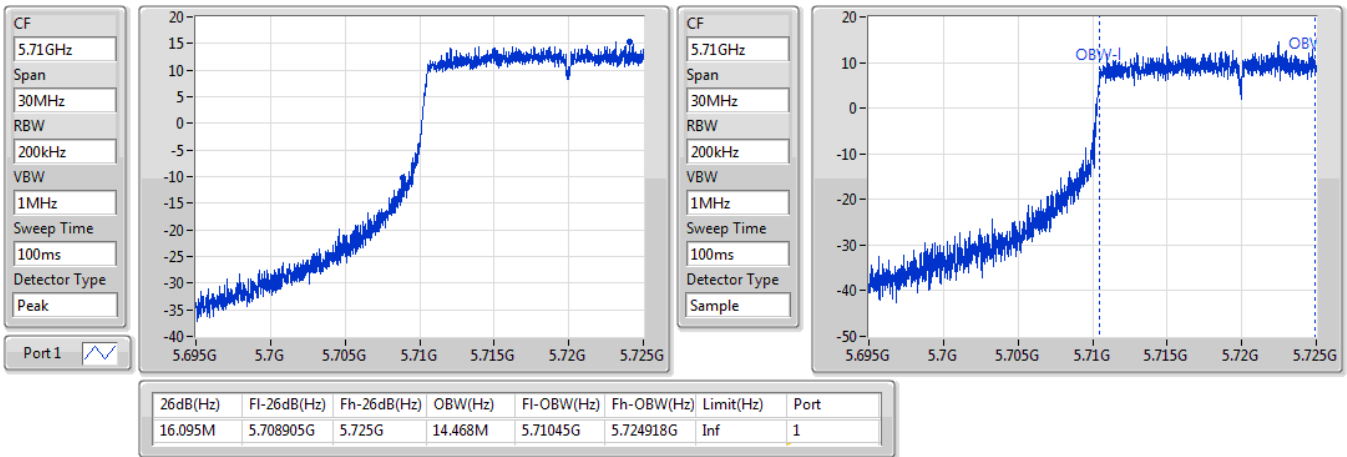

802.11ax HEW20_Nss1,(MCS0)_1TX
EBW
5700MHz

03/08/2019

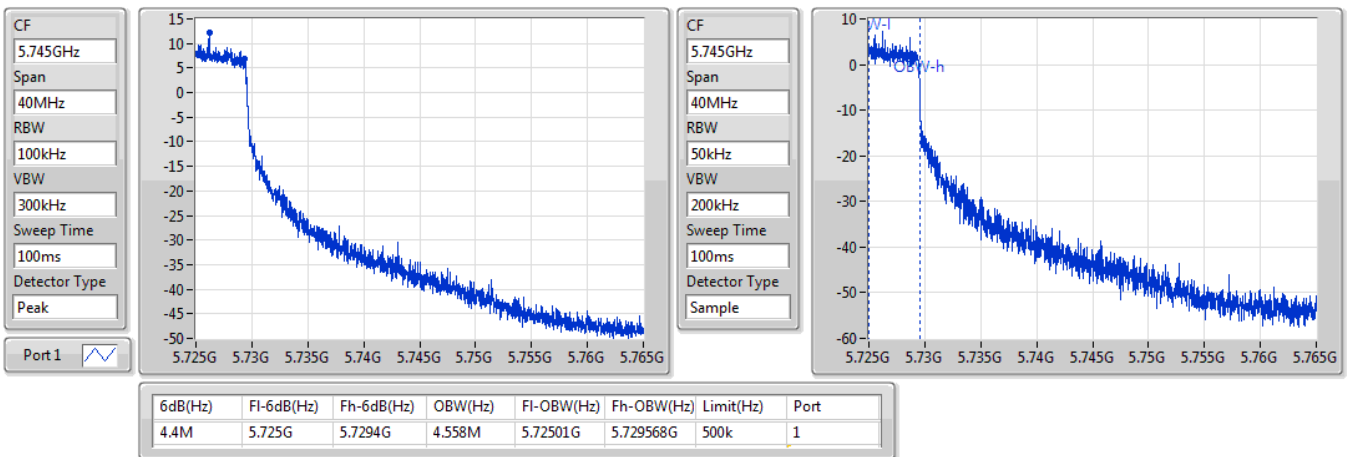


802.11ax HEW20_Nss1,(MCS0)_1TX
EBW
5720MHz Straddle 5.47-5.725GHz

03/08/2019

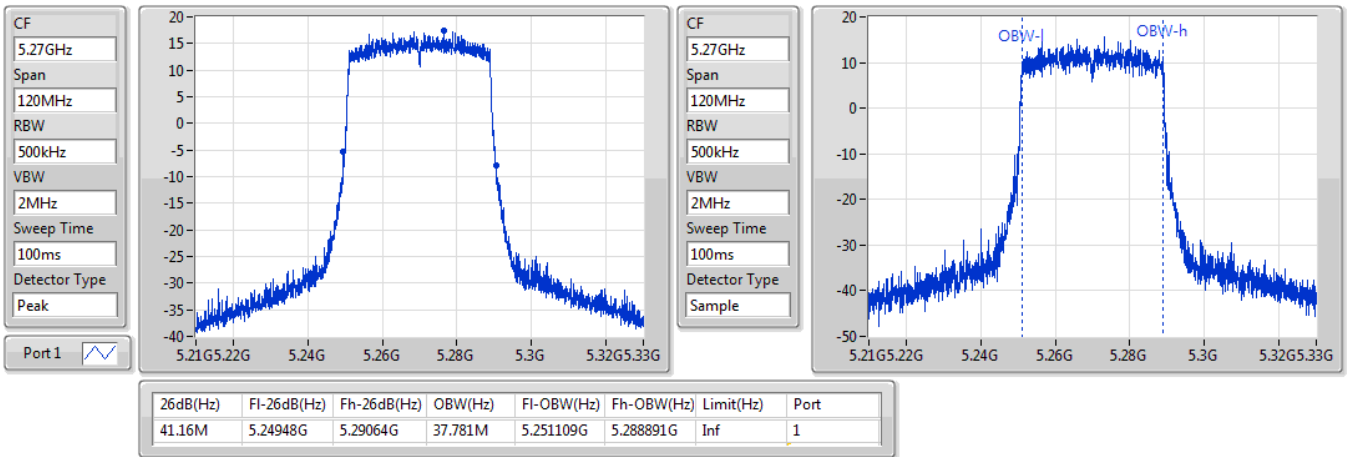

802.11ax HEW20_Nss1,(MCS0)_1TX
EBW
5720MHz Straddle 5.725-5.85GHz

03/08/2019

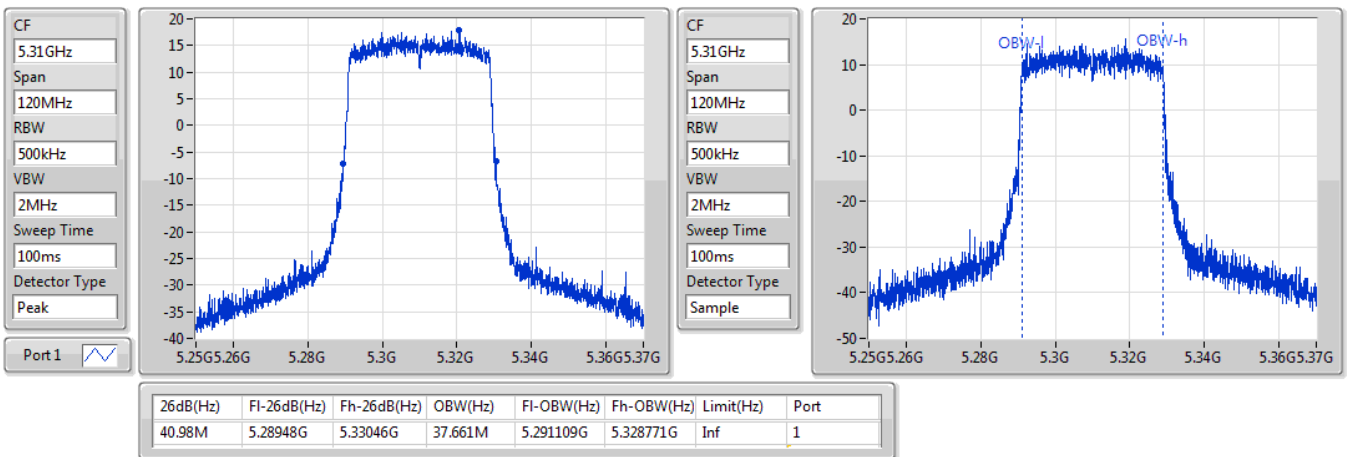


802.11ax HEW40_Nss1,(MCS0)_1TX
EBW
5270MHz

03/08/2019

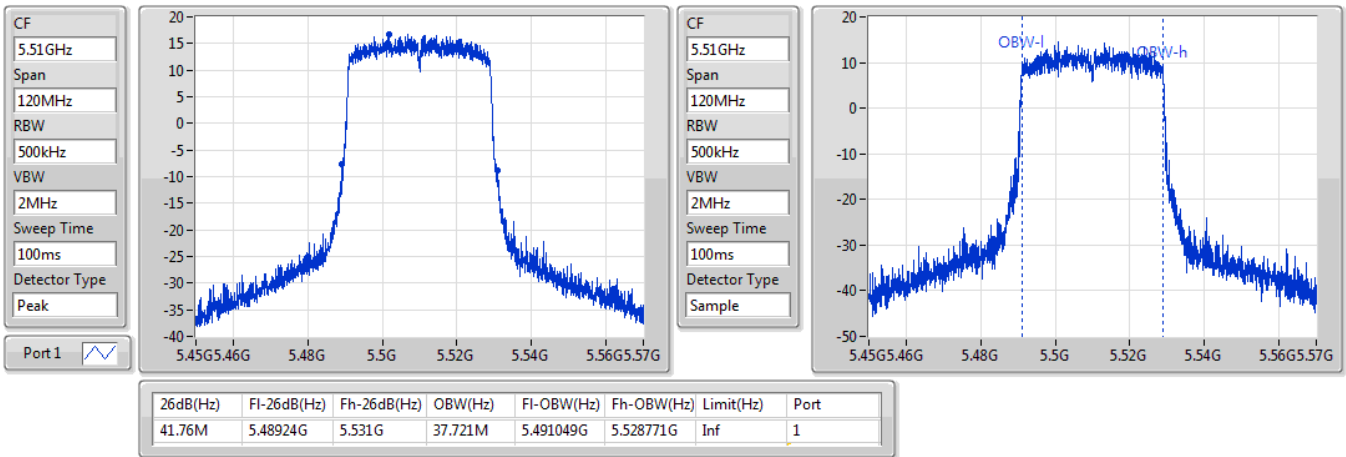

802.11ax HEW40_Nss1,(MCS0)_1TX
EBW
5310MHz

03/08/2019

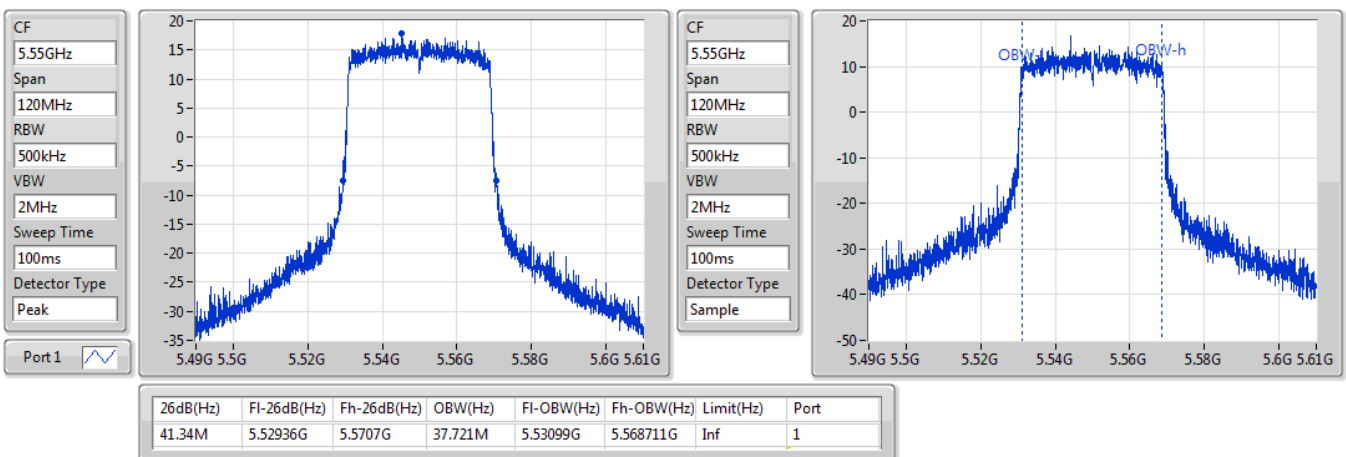


802.11ax HEW40_Nss1,(MCS0)_1TX
EBW
5510MHz

03/08/2019

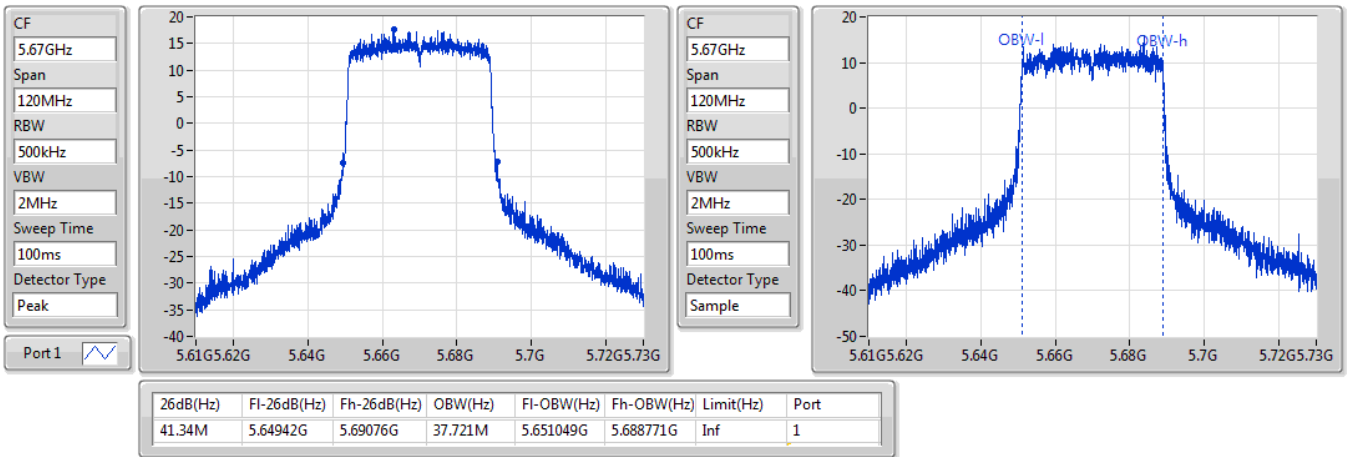

802.11ax HEW40_Nss1,(MCS0)_1TX
EBW
5550MHz

03/08/2019

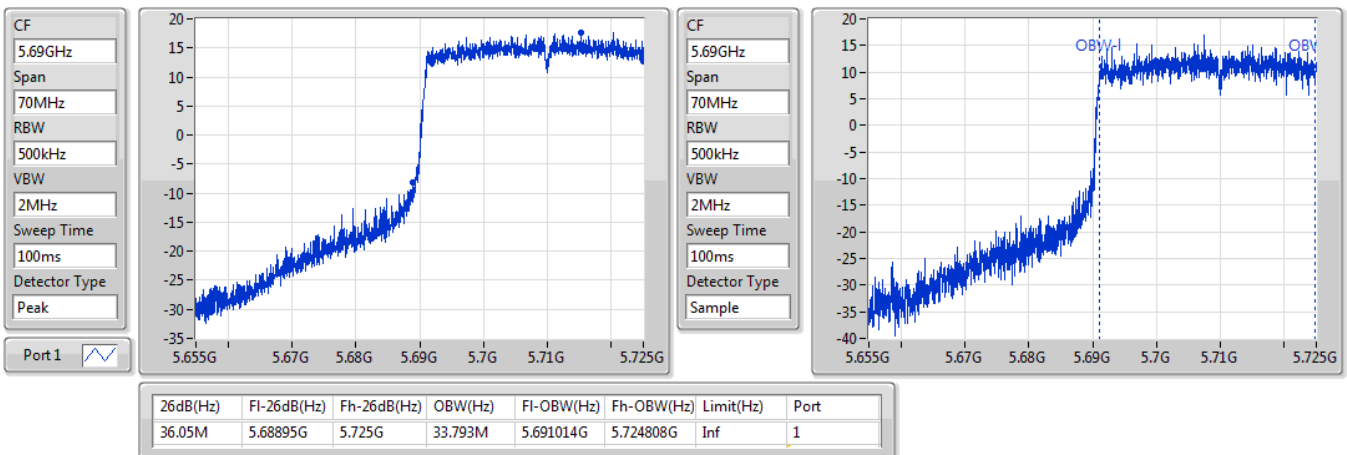


802.11ax HEW40_Nss1,(MCS0)_1TX
EBW
5670MHz

03/08/2019

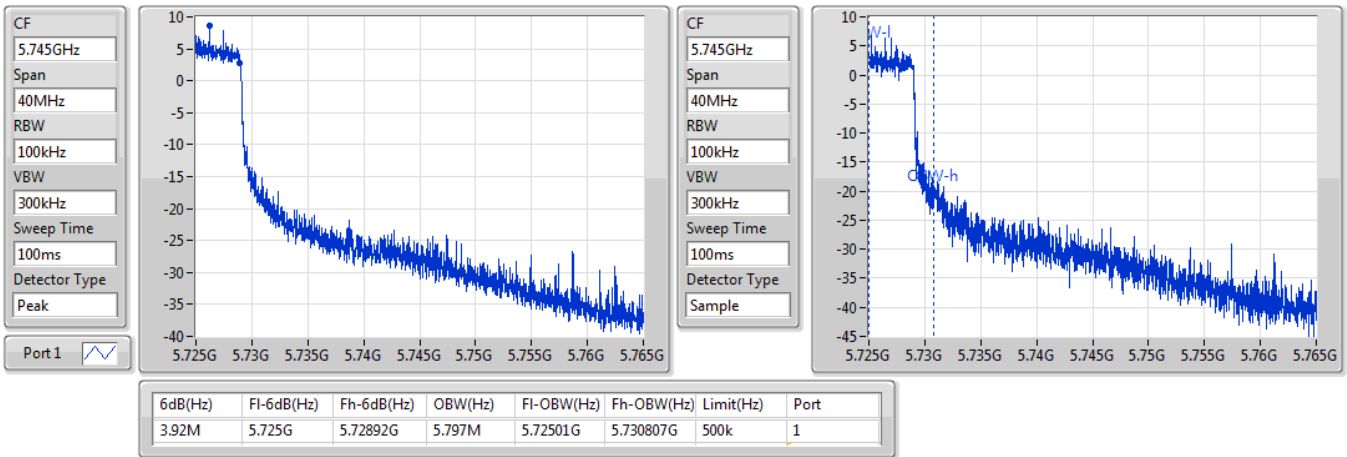

802.11ax HEW40_Nss1,(MCS0)_1TX
EBW
5710MHz Straddle 5.47-5.725GHz

03/08/2019

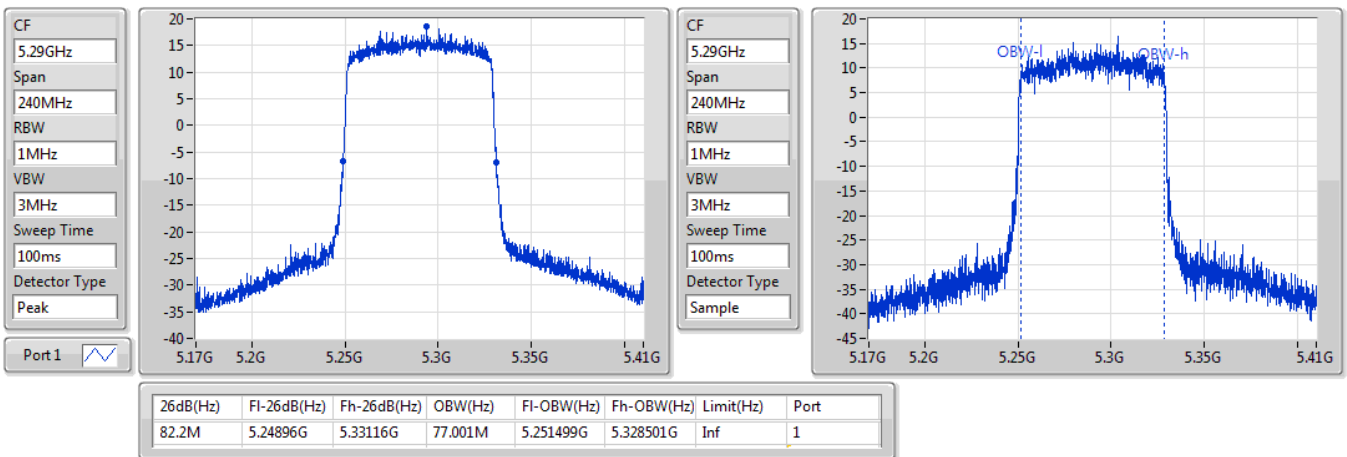


802.11ax HEW40_Nss1,(MCS0)_1TX
EBW
5710MHz Straddle 5.725-5.85GHz

03/08/2019

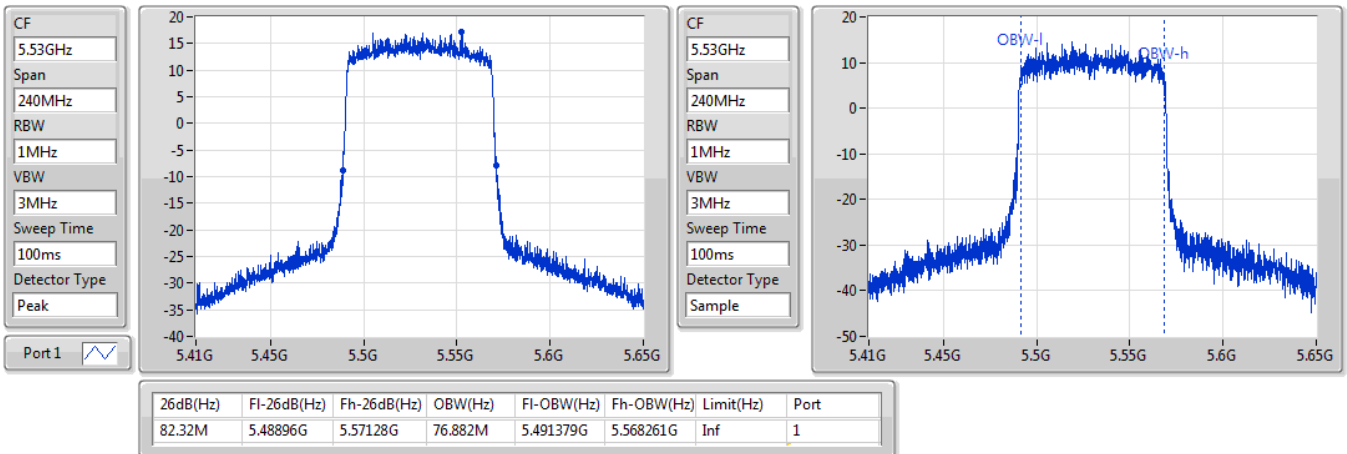

802.11ax HEW80_Nss1,(MCS0)_1TX
EBW
5290MHz

03/08/2019

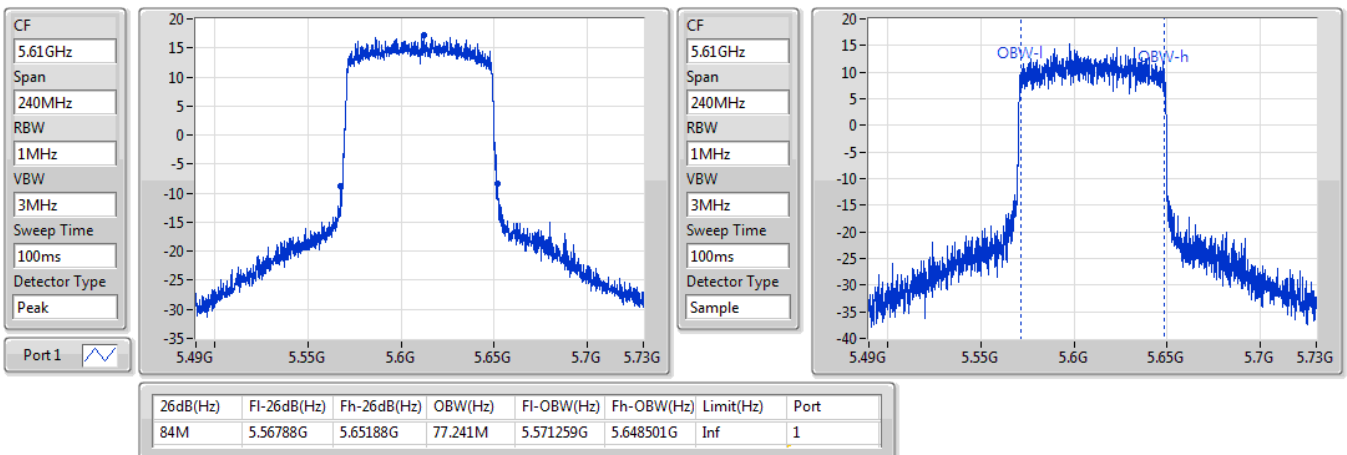


802.11ax HEW80_Nss1,(MCS0)_1TX
EBW
5530MHz

03/08/2019

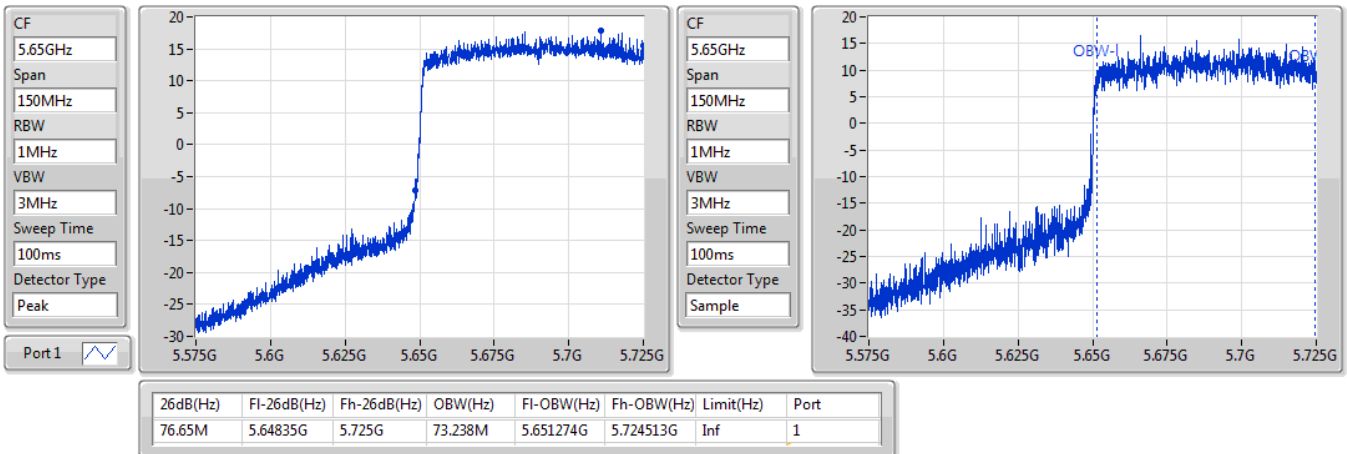

802.11ax HEW80_Nss1,(MCS0)_1TX
EBW
5610MHz

03/08/2019

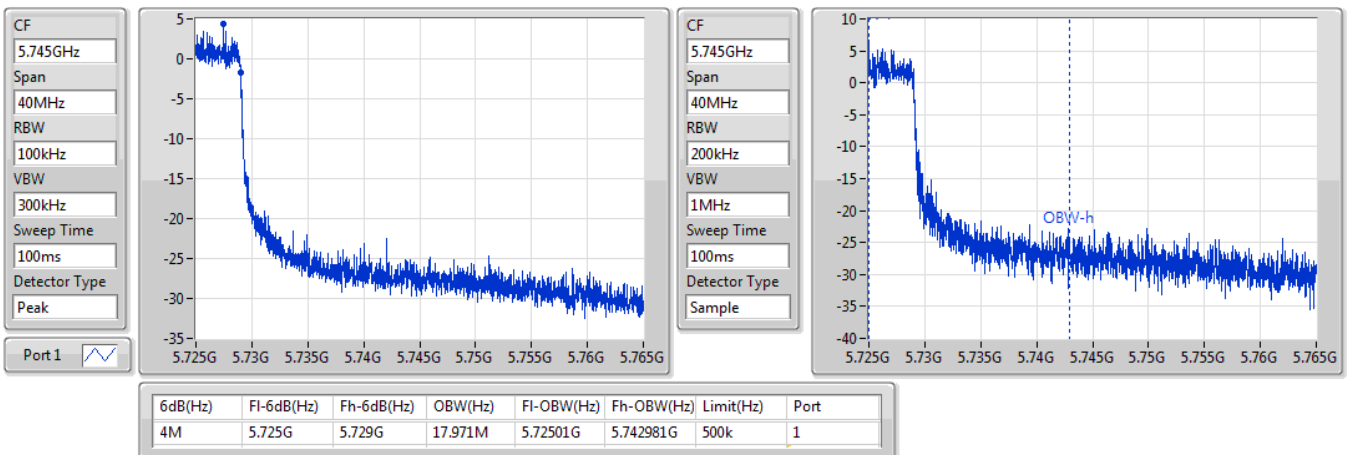


802.11ax HEW80_Nss1,(MCS0)_1TX
EBW
5690MHz Straddle 5.47-5.725GHz

03/08/2019


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

03/08/2019



**Summary**

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.25-5.35GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	20.73M	16.402M	16M4D1D	20.49M	16.342M
802.11ax HEW20_Nss1,(MCS0)_2TX	21.78M	18.951M	19M0D1D	21.57M	18.861M
802.11ax HEW40_Nss1,(MCS0)_2TX	41.22M	37.721M	37M7D1D	40.56M	37.661M
802.11ax HEW80_Nss1,(MCS0)_2TX	82.2M	77.121M	77M1D1D	82.08M	77.001M
5.47-5.725GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	20.73M	16.432M	16M4D1D	15.135M	13.208M
802.11ax HEW20_Nss1,(MCS0)_2TX	21.78M	18.921M	18M9D1D	15.57M	14.468M
802.11ax HEW40_Nss1,(MCS0)_2TX	41.34M	37.721M	37M7D1D	35.56M	33.758M
802.11ax HEW80_Nss1,(MCS0)_2TX	83.04M	77.121M	77M1D1D	76.125M	73.238M
5.725-5.85GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	3.1M	3.558M	3M56D1D	3.08M	3.458M
802.11ax HEW20_Nss1,(MCS0)_2TX	4.46M	4.498M	4M50D1D	4.4M	4.478M
802.11ax HEW40_Nss1,(MCS0)_2TX	4M	4.058M	4M06D1D	3.9M	4.058M
802.11ax HEW80_Nss1,(MCS0)_2TX	4.08M	4.118M	4M12D1D	3.94M	4.098M

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

Max-OBW = Maximum 99% occupied bandwidth;

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

Min-OBW = Minimum 99% occupied bandwidth;

Result

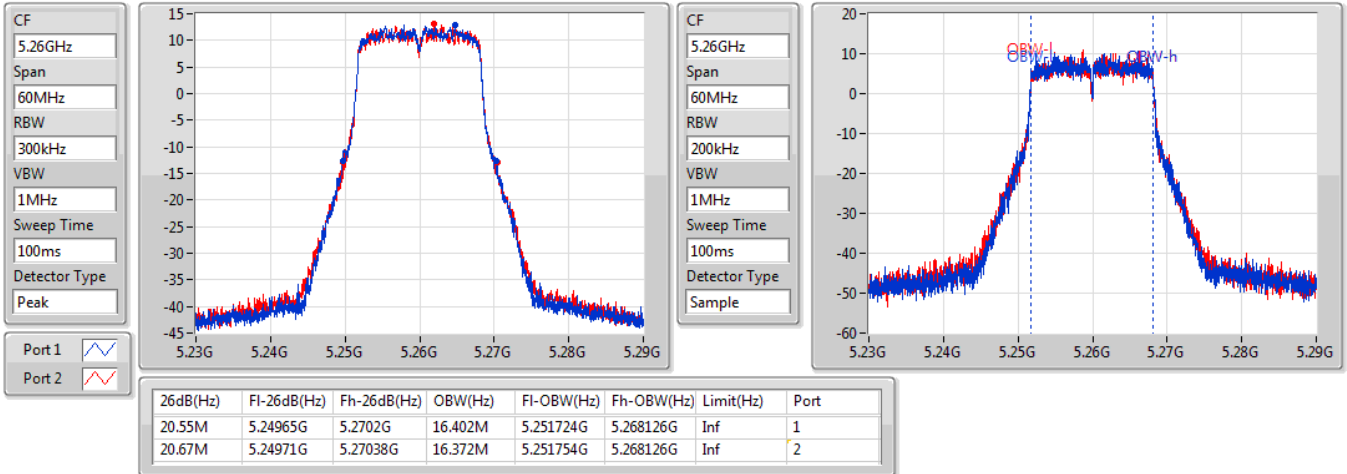
Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
5260MHz	Pass	Inf	20.55M	16.402M	20.67M	16.372M
5300MHz	Pass	Inf	20.49M	16.342M	20.73M	16.402M
5320MHz	Pass	Inf	20.49M	16.372M	20.67M	16.402M
5500MHz	Pass	Inf	20.37M	16.432M	20.49M	16.432M
5580MHz	Pass	Inf	20.31M	16.432M	20.67M	16.402M
5700MHz	Pass	Inf	20.52M	16.402M	20.73M	16.402M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	15.315M	13.208M	15.135M	13.253M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	3.1M	3.558M	3.08M	3.458M
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5260MHz	Pass	Inf	21.78M	18.921M	21.72M	18.891M
5300MHz	Pass	Inf	21.6M	18.891M	21.69M	18.951M
5320MHz	Pass	Inf	21.75M	18.861M	21.57M	18.921M
5500MHz	Pass	Inf	21.63M	18.891M	21.54M	18.861M
5580MHz	Pass	Inf	21.78M	18.921M	21.42M	18.921M
5700MHz	Pass	Inf	21.69M	18.921M	21.54M	18.921M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	15.57M	14.468M	15.975M	14.483M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	4.46M	4.478M	4.4M	4.498M
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5270MHz	Pass	Inf	40.92M	37.721M	41.22M	37.661M
5310MHz	Pass	Inf	40.56M	37.721M	41.04M	37.721M
5510MHz	Pass	Inf	41.22M	37.601M	41.04M	37.721M
5550MHz	Pass	Inf	40.92M	37.661M	41.22M	37.721M
5670MHz	Pass	Inf	41.28M	37.661M	41.34M	37.721M
5710MHz Straddle 5.47-5.725GHz	Pass	Inf	35.56M	33.793M	35.595M	33.758M
5710MHz Straddle 5.725-5.85GHz	Pass	500k	3.9M	4.058M	4M	4.058M
802.11ax HEW80_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5290MHz	Pass	Inf	82.08M	77.001M	82.2M	77.121M
5530MHz	Pass	Inf	82.08M	77.001M	83.04M	77.121M
5610MHz	Pass	Inf	82.8M	77.121M	82.92M	77.001M
5690MHz Straddle 5.47-5.725GHz	Pass	Inf	76.125M	73.238M	76.725M	73.238M
5690MHz Straddle 5.725-5.85GHz	Pass	500k	4.08M	4.098M	3.94M	4.118M

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

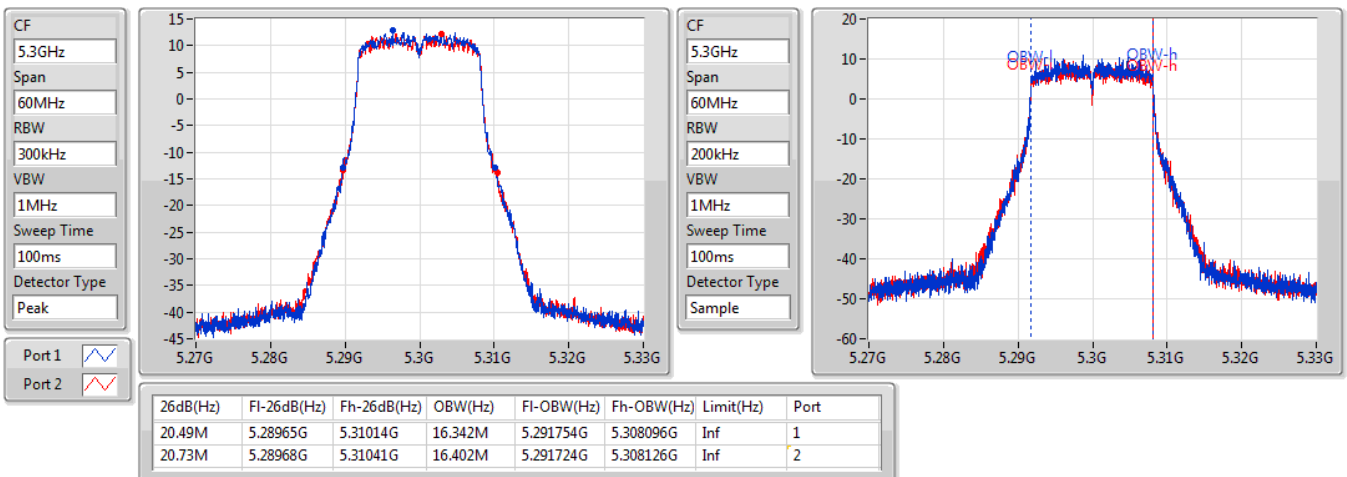
Port X-OBW = Port X 99% occupied bandwidth;

802.11a_Nss1,(6Mbps)_2TX
EBW
5260MHz

03/08/2019

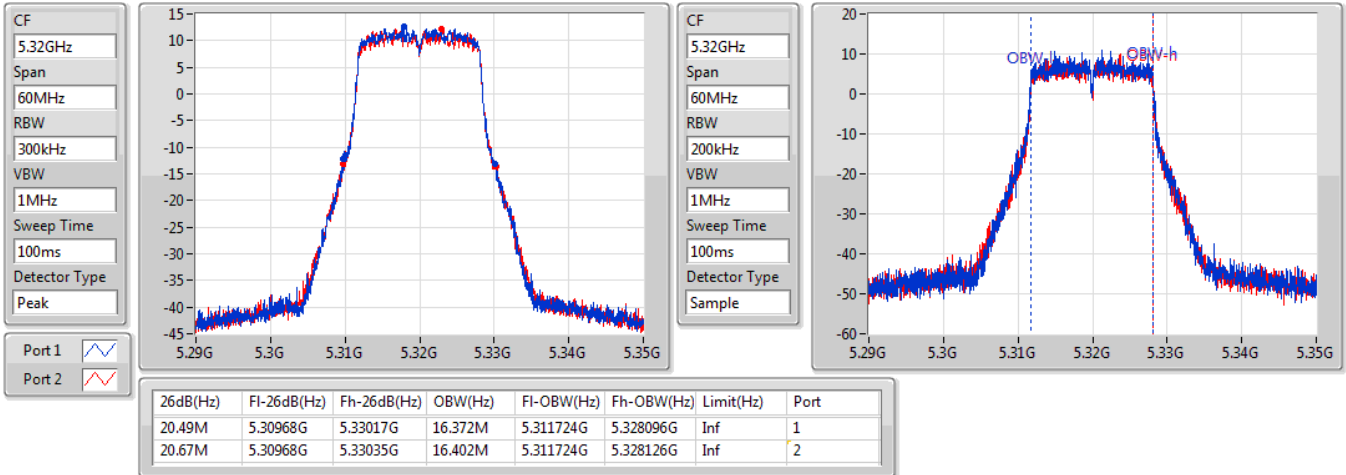

802.11a_Nss1,(6Mbps)_2TX
EBW
5300MHz

03/08/2019

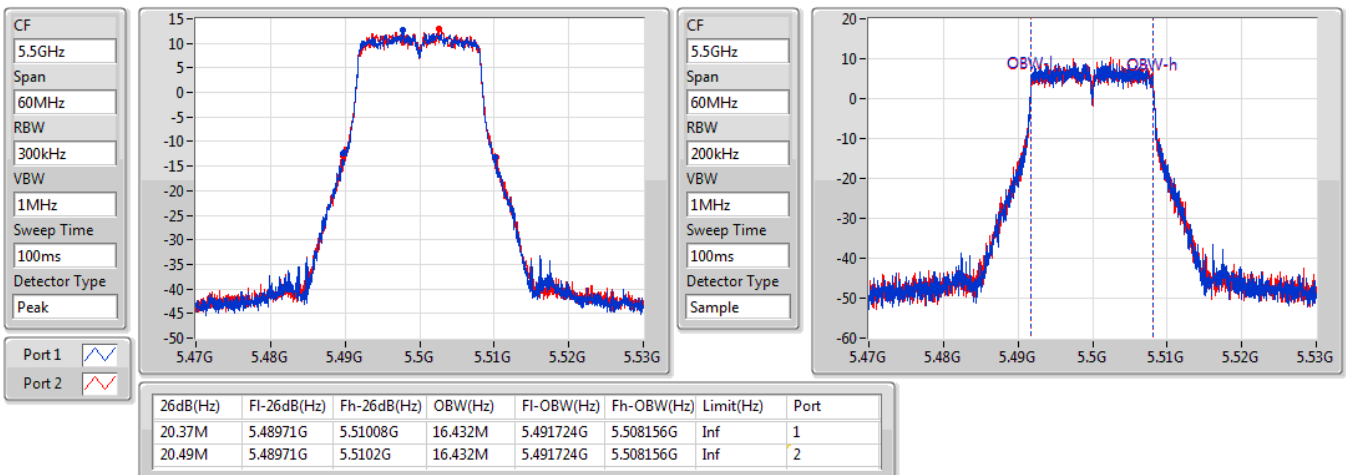


802.11a_Nss1,(6Mbps)_2TX
EBW
5320MHz

03/08/2019

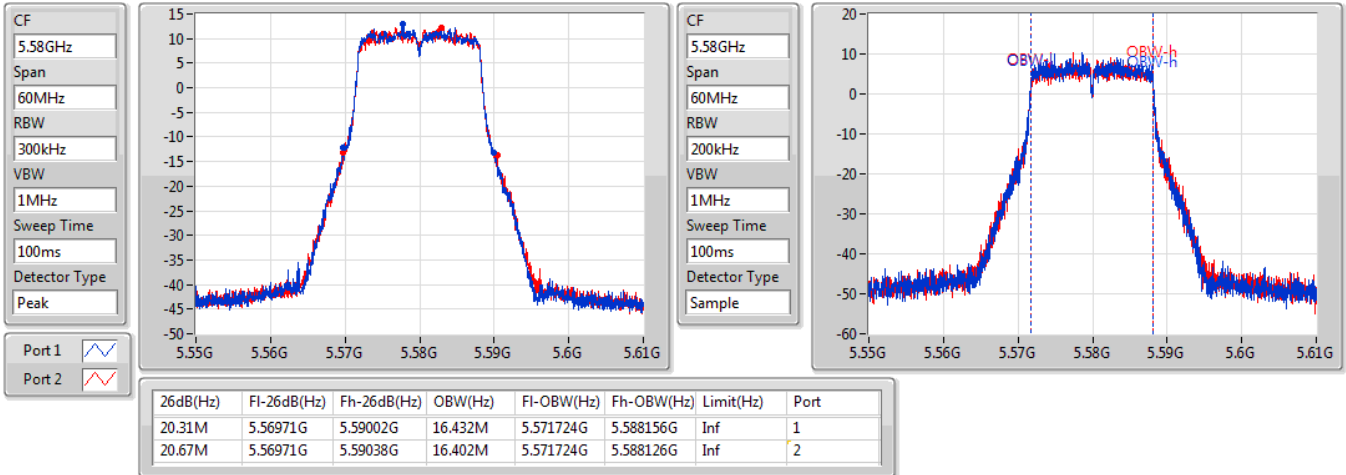

802.11a_Nss1,(6Mbps)_2TX
EBW
5500MHz

03/08/2019

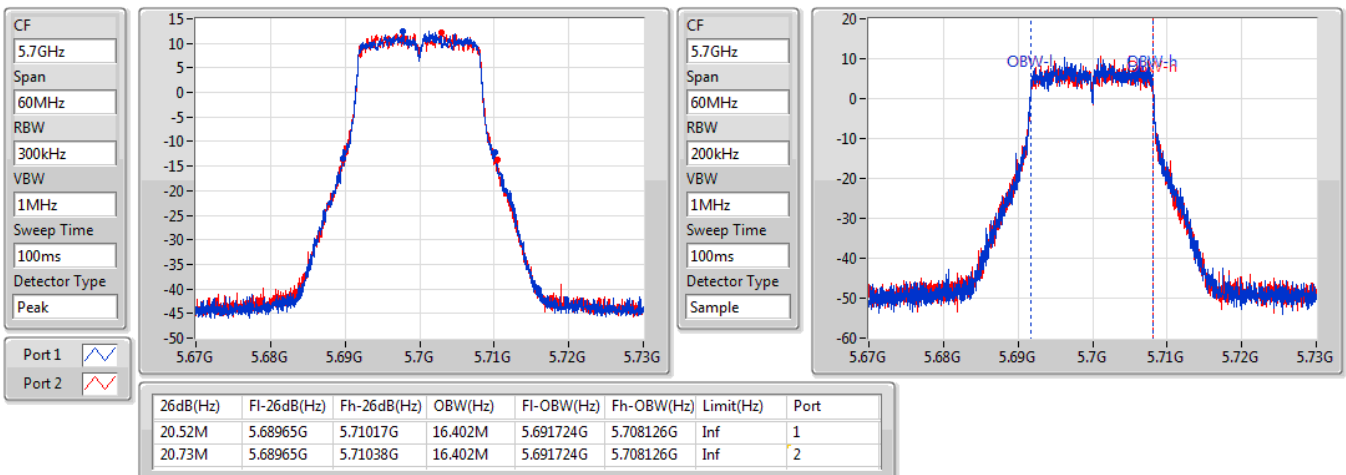


802.11a_Nss1,(6Mbps)_2TX
EBW
5580MHz

03/08/2019

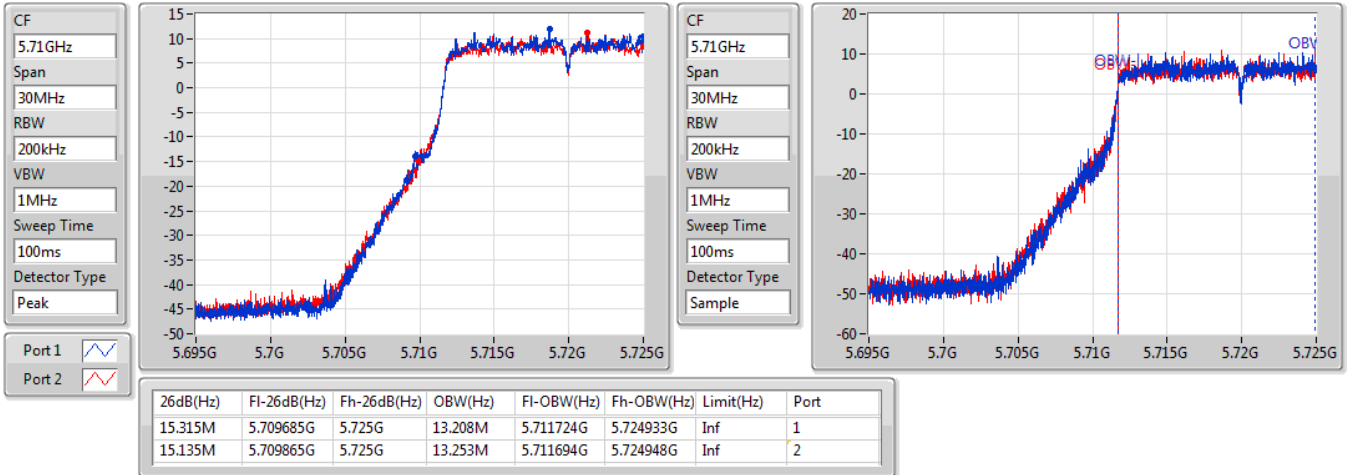

802.11a_Nss1,(6Mbps)_2TX
EBW
5700MHz

03/08/2019

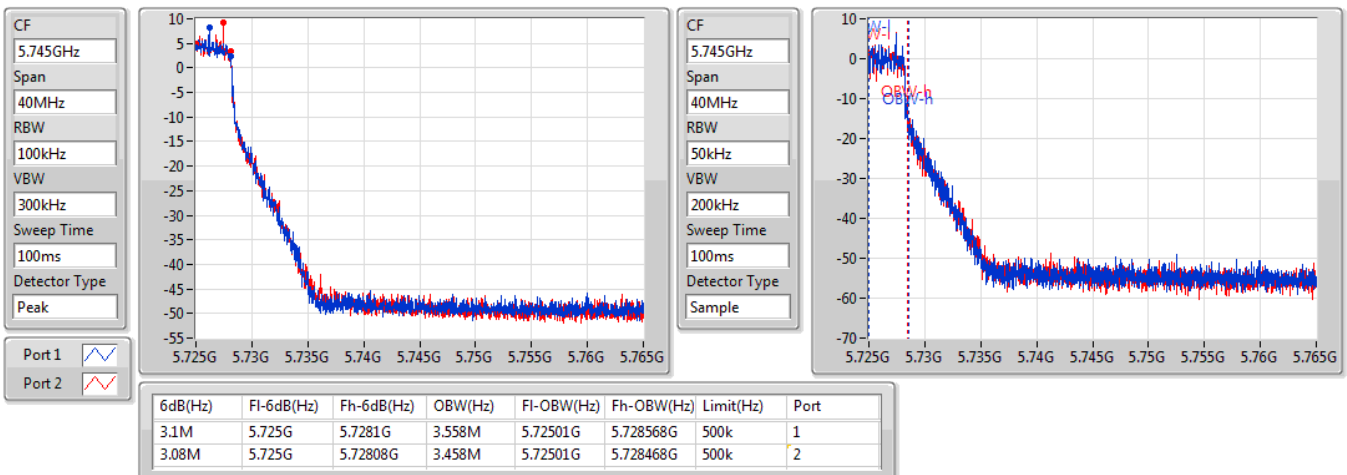


802.11a_Nss1,(6Mbps)_2TX
EBW
5720MHz Straddle 5.47-5.725GHz

03/08/2019

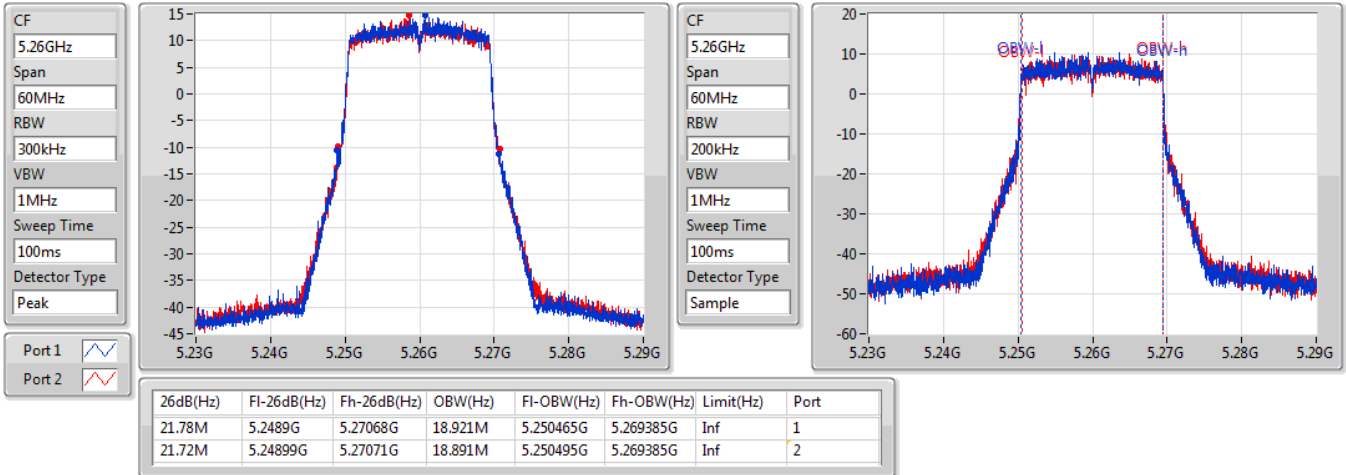

802.11a_Nss1,(6Mbps)_2TX
EBW
5720MHz Straddle 5.725-5.85GHz

03/08/2019

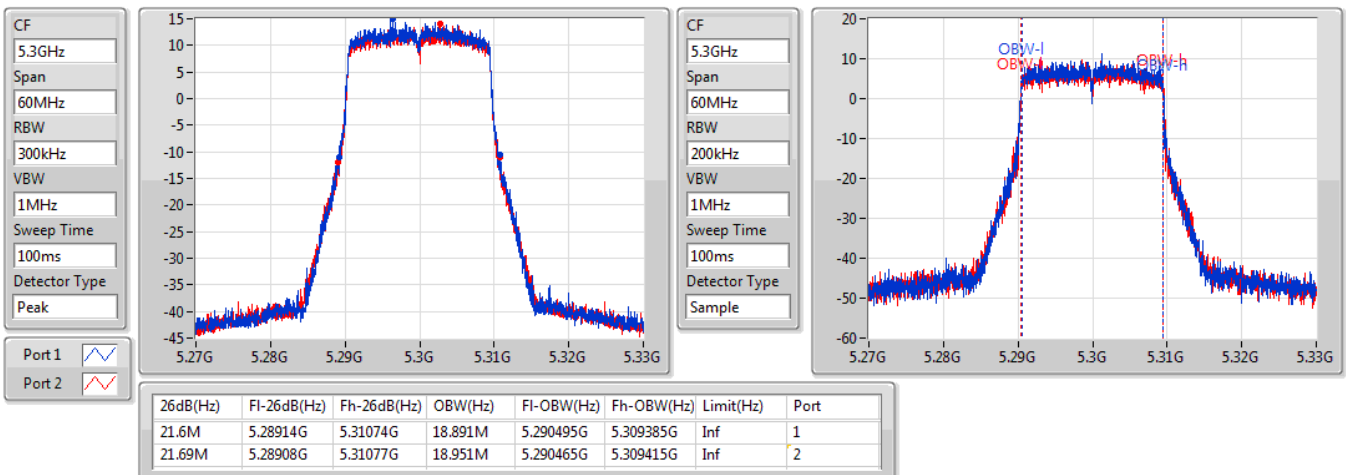


802.11ax HEW20_Nss1,(MCS0)_2TX
EBW
5260MHz

03/08/2019

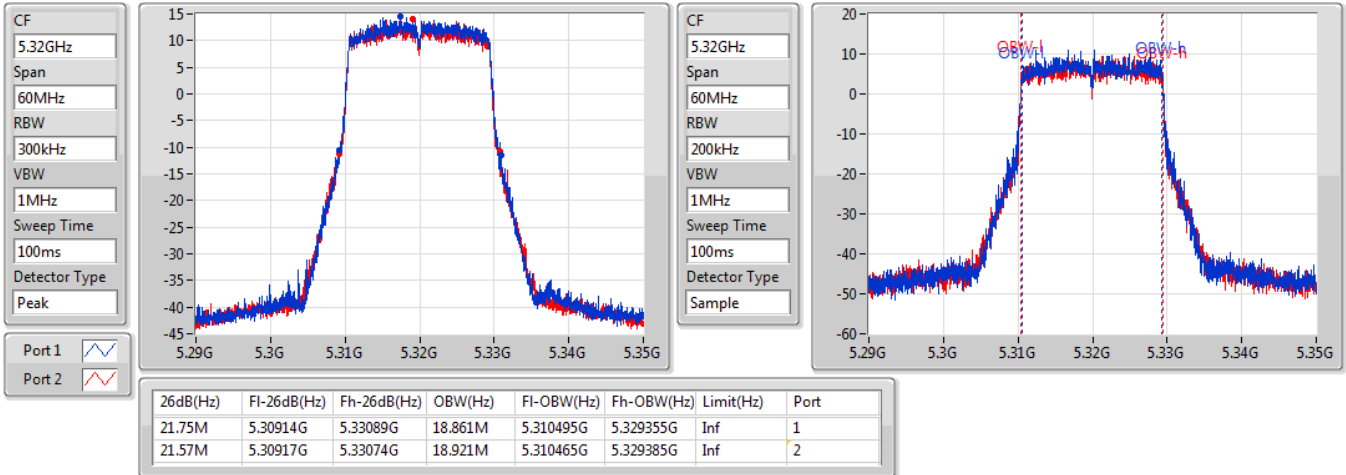

802.11ax HEW20_Nss1,(MCS0)_2TX
EBW
5300MHz

03/08/2019

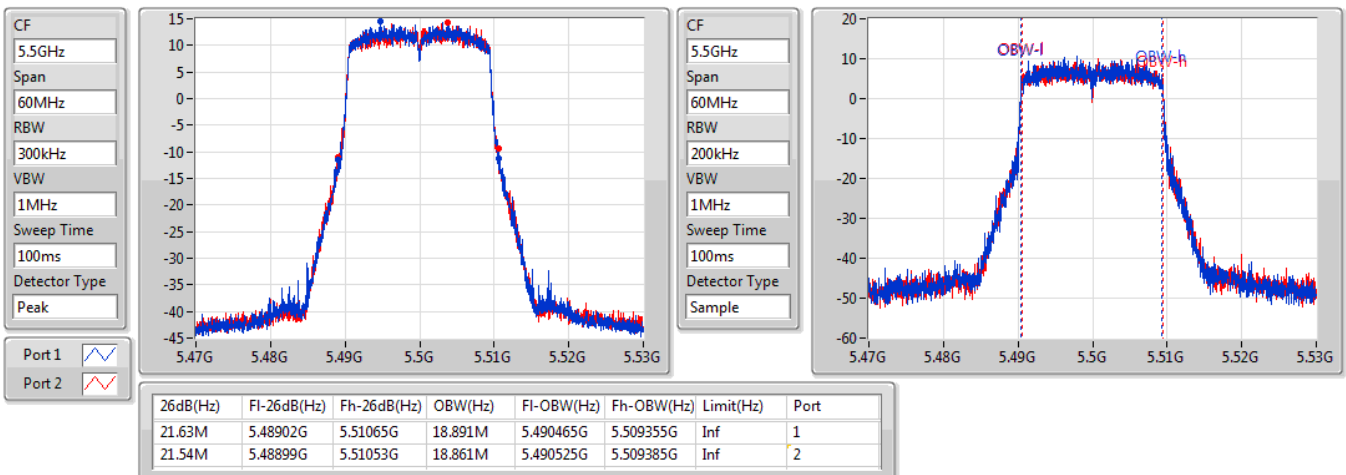


802.11ax HEW20_Nss1,(MCS0)_2TX
EBW
5320MHz

03/08/2019

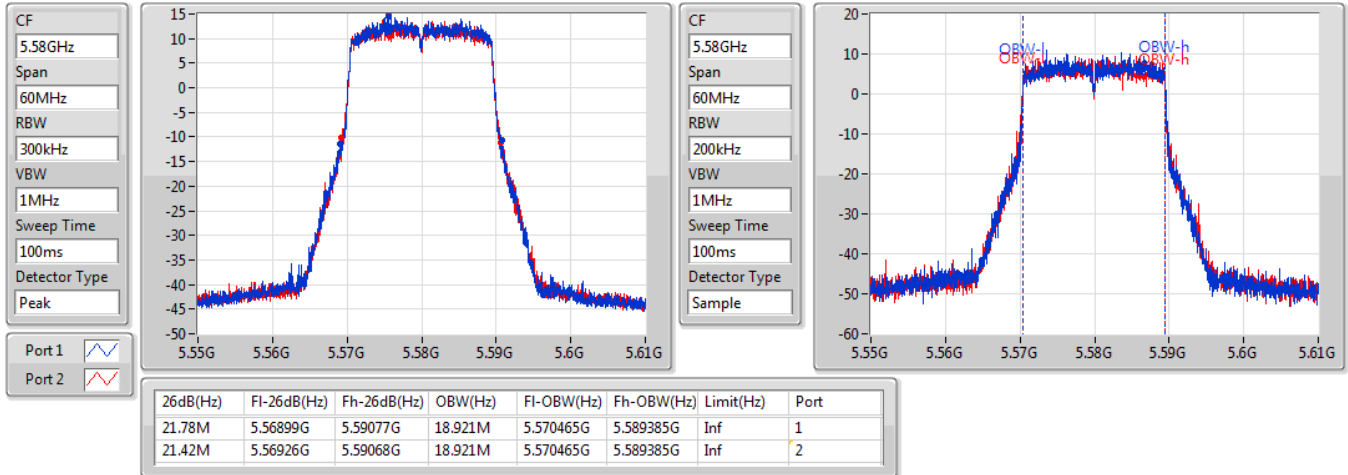

802.11ax HEW20_Nss1,(MCS0)_2TX
EBW
5500MHz

03/08/2019

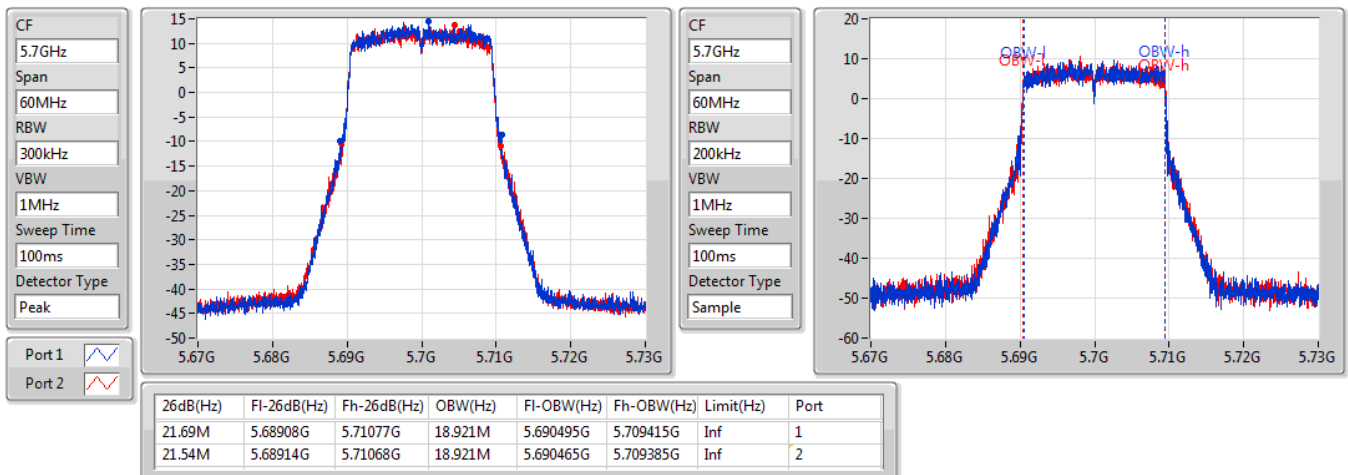


802.11ax HEW20_Nss1,(MCS0)_2TX
EBW
5580MHz

03/08/2019

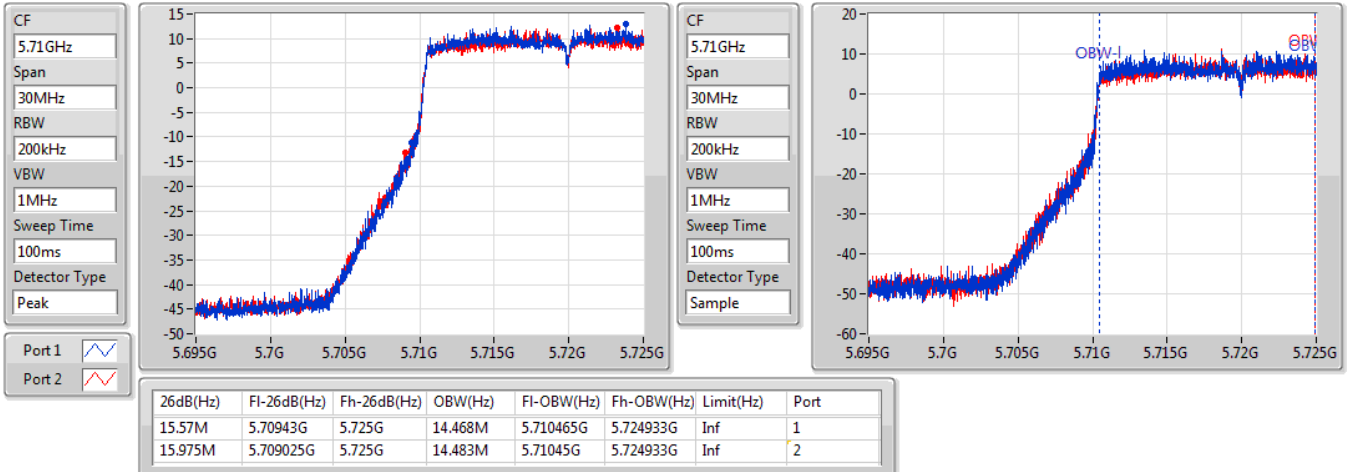

802.11ax HEW20_Nss1,(MCS0)_2TX
EBW
5700MHz

03/08/2019



802.11ax HEW20_Nss1,(MCS0)_2TX
EBW
5720MHz Straddle 5.47-5.725GHz

03/08/2019


802.11ax HEW20_Nss1,(MCS0)_2TX
EBW
5720MHz Straddle 5.725-5.85GHz

03/08/2019

