



FCC Test Report

FCC ID : UDX-600109010
Equipment : Wi-Fi 6 Indoor Access Point
Brand Name : CISCO
Model Name : MR44-HW
Applicant : Cisco Systems, Inc.
170 West Tasman Drive San Jose, CA 95134 USA
Manufacturer : Cisco Systems, Inc.
170 West Tasman Drive San Jose, CA 95134 USA
Standard : 47 CFR FCC Part 15.407

The product was received on Apr. 04, 2020, and testing was started from Apr. 04, 2020 and completed on Jun. 08, 2020. 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: Allen Lin

SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory

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History of this test report

[illegible]

Summary of Test Result

Report Clause	Ref. Std. Clause	Test Items	Result (PASS/FAIL)	Remark
1.1.2	15.203	Antenna Requirement	PASS	-
-	15.207	AC Power-line Conducted Emissions	Not Performed	-
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:

None

Reviewed by: Sam Tsai

Report Producer: Yunha Liou

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 (HEW 20)	5260-5320	52-64 [4]
5470-5725		5500-5700	100-140 [11]
Straddle 5720		5720	144 [1]
5250-5350	n (HT40), ac (VHT40), ax (HEW 40)	5270-5310	54-62 [2]
5470-5725		5510-5670	102-134 [5]
Straddle 5710		5710	142 [1]
5250-5350	ac (VHT80), ax (HEW 80)	5290	58 [1]
5470-5725		5530-5610	106-122 [2]
Straddle 5690		5690	138 [1]

Non-Beamforming Radio 1_4T1S

Band	Mode	BWch (MHz)	Nant
5.25-5.35GHz	802.11a	20	4TX
5.47-5.725GHz	802.11a	20	4TX
5.725-5.85GHz	802.11a	20	4TX
5.25-5.35GHz	802.11ac VHT20	20	4TX
5.47-5.725GHz	802.11ac VHT20	20	4TX
5.725-5.85GHz	802.11ac VHT20	20	4TX
5.25-5.35GHz	802.11ac VHT40	40	4TX
5.47-5.725GHz	802.11ac VHT40	40	4TX
5.725-5.85GHz	802.11ac VHT40	40	4TX
5.25-5.35GHz	802.11ac VHT80	80	4TX
5.47-5.725GHz	802.11ac VHT80	80	4TX
5.725-5.85GHz	802.11ac VHT80	80	4TX
5.25-5.35GHz	802.11ax HEW20	20	4TX
5.47-5.725GHz	802.11ax HEW20	20	4TX
5.725-5.85GHz	802.11ax HEW20	20	4TX
5.25-5.35GHz	802.11ax HEW40	40	4TX
5.47-5.725GHz	802.11ax HEW40	40	4TX
5.725-5.85GHz	802.11ax HEW40	40	4TX



Band	Mode	BWch (MHz)	Nant
5.25-5.35GHz	802.11ax HEW80	80	4TX
5.47-5.725GHz	802.11ax HEW80	80	4TX
5.725-5.85GHz	802.11ax HEW80	80	4TX

Radio 3_1T1S

Band	Mode	BWch (MHz)	Nant
5.25-5.35GHz	802.11a	20	1TX
5.47-5.725GHz	802.11a	20	1TX
5.725-5.85GHz	802.11a	20	1TX
5.25-5.35GHz	802.11ac VHT20	20	1TX
5.47-5.725GHz	802.11ac VHT20	20	1TX
5.725-5.85GHz	802.11ac VHT20	20	1TX
5.25-5.35GHz	802.11ac VHT40	40	1TX
5.47-5.725GHz	802.11ac VHT40	40	1TX
5.725-5.85GHz	802.11ac VHT40	40	1TX
5.25-5.35GHz	802.11ac VHT80	80	1TX
5.47-5.725GHz	802.11ac VHT80	80	1TX
5.725-5.85GHz	802.11ac VHT80	80	1TX

**Beamforming
Radio 1_4T1S**

Band	Mode	BWch (MHz)	Nant
5.25-5.35GHz	802.11ac VHT20-BF	20	4TX
5.47-5.725GHz	802.11ac VHT20-BF	20	4TX
5.725-5.85GHz	802.11ac VHT20-BF	20	4TX
5.25-5.35GHz	802.11ac VHT40-BF	40	4TX
5.47-5.725GHz	802.11ac VHT40-BF	40	4TX
5.725-5.85GHz	802.11ac VHT40-BF	40	4TX
5.25-5.35GHz	802.11ac VHT80-BF	80	4TX
5.47-5.725GHz	802.11ac VHT80-BF	80	4TX
5.725-5.85GHz	802.11ac VHT80-BF	80	4TX
5.25-5.35GHz	802.11ax HEW20-BF	20	4TX
5.47-5.725GHz	802.11ax HEW20-BF	20	4TX
5.725-5.85GHz	802.11ax HEW20-BF	20	4TX
5.25-5.35GHz	802.11ax HEW40-BF	40	4TX
5.47-5.725GHz	802.11ax HEW40-BF	40	4TX
5.725-5.85GHz	802.11ax HEW40-BF	40	4TX
5.25-5.35GHz	802.11ax HEW80-BF	80	4TX
5.47-5.725GHz	802.11ax HEW80-BF	80	4TX
5.725-5.85GHz	802.11ax HEW80-BF	80	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.
- ♦ The resource unit of HEW 20, HEW 40, HEW 80 only support full loading.

1.1.2 Antenna Information

Ant.	Port	Brand	Model Number (P/N)	Antenna Type	Connector	Antenna Gain (dBi)			Remark
						2.4GHz	5GHz	BLE	
1	1	SENAO	ANT X-Ray 5G1 MET 26.8*18.6*7.9_1.37LL BLACK ASSEM	PIFA	I-Pex	-	5.5	-	Radio 1
2	2	SENAO	ANT X-Ray 5G2 MET 26.8*18.6*7.9_1.37LL YELLOW ASSEM	PIFA	I-Pex	-	5.9	-	Radio 1
3	3	SENAO	ANT X-Ray 5G3 MET 21*10*5_1.37LL BROWN ASSEM	PIFA	I-Pex	-	5.6	-	Radio 1
4	4	SENAO	ANT X-Ray 5G4 MET 21*10*5_1.37LL RED ASSEM	PIFA	I-Pex	-	5.4	-	Radio 1
5	1	SENAO	ANT X-Ray 2G1 MET 45.5*31.0*8.0_1.37LL GRAY ASSEM	PIFA	I-Pex	5.0	-	-	Radio 2
6	2	SENAO	ANT X-Ray 2G2 MET 45.5*31.0*8.0_1.37LL BLUE ASSEM	PIFA	I-Pex	4.9	-	-	Radio 2
7	1	SENAO	ANT X-Ray Scan PCB 35*10*0.4_1.37LL WHITE ASSEM	PCB	I-Pex	5.4	6.2	-	Radio 3
8	1	SENAO	ANT X-Ray ble PCB 38*6.5*0.4_1.37LL ORANGE ASSEM	PCB	I-Pex	-	-	5	Radio 4

For 2.4GHz function:

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

Only Ant.7 (port 1) can be used as transmitting/receiving antenna.

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

Ant.5 (Port 1) and Ant.6 (port 2) could transmit/receive simultaneously.

For BT function:

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

Only Ant.8 (port 1) can be used as transmitting/receiving antenna.

For 5GHz function:

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

Only Ant.7 (port 1) can be used as transmitting/receiving antenna.

For IEEE 802.11 a/n/ac/ax mode (4TX/4RX)

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

1.1.3 EUT Information

Operational Condition			
EUT Power Type	From Adapter / PoE		
EUT Function	☐ Outdoor AP	☒	Indoor AP (Radio 1 & Radio 2)
	☐ Fixed P2P AP	☒	Indoor Client (Radio 3)
Beamforming Function	☒ With beamforming	☐	Without beamforming
TPC Function	☒ With TPC Function	☐	Without TPC Function
Weather Band	☒ With 5600~5650MHz	☐	Without 5600~5650MHz
Type of EUT			
☒	Stand-alone		
☐	Combined (EUT where the radio part is fully integrated within another device)		
	Combined Equipment - Brand Name / Model No.: ...		
☐	Plug-in radio (EUT intended for a variety of host systems)		
	Host System - Brand Name / Model No.:		
☐	Other:		

1.1.4 Mode Test Duty Cycle

Non-Beamforming

Radio 1_4T1S

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq 1/T$
802.11a_Nss1,(6Mbps)_4TX	0.946	0.24	1.978m	1k
802.11ac VHT20_Nss1,(MCS0)_4TX	0.962	0.17	5.43m	300
802.11ac VHT40_Nss1,(MCS0)_4TX	0.958	0.19	5.43m	300
802.11ac VHT80_Nss1,(MCS0)_4TX	0.947	0.24	5.43m	300
802.11ax HEW20_Nss1,(MCS0)_4TX	0.958	0.19	5.447m	300
802.11ax HEW40_Nss1,(MCS0)_4TX	0.962	0.17	5.447m	300
802.11ax HEW80_Nss1,(MCS0)_4TX	0.94	0.27	5.447m	300

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

Radio 3_1T1S

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq 1/T$
802.11a_Nss1,(6Mbps)_1TX	0.961	0.17	2.028m	1k
802.11ac VHT20_Nss1,(MCS0)_1TX	0.965	0.15	1.888m	1k
802.11ac VHT40_Nss1,(MCS0)_1TX	0.929	0.32	936.563u	3k
802.11ac VHT80_Nss1,(MCS0)_1TX	0.868	0.61	456.563u	3k

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

Beamforming

Radio 1_4T1S

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq 1/T$
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	0.929	0.32	1.758m	1k
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	0.915	0.39	1.693m	1k
802.11ac VHT80-BF_Nss1,(MCS0)_4TX	0.893	0.49	1.949m	1k
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	0.925	0.34	1.758m	1k
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	0.909	0.41	1.693m	1k
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	0.938	0.28	1.949m	1k

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

1.1.5 Table for Permissive Change

This product is an extension of original one reported under Sporton project number: FR041301AN

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

Modifications	Performance Checking
U-NII-2A and UNII-2C were added.	All

1.2 Testing Applied Standards

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

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

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

- ♦ KDB 662911 D01 v02r01
- ♦ KDB 414788 D01 v01r01

1.3 Testing Location Information

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
Test site Designation No. TW1190 with FCC.			
☐	JHUBEI	ADD : No.8, Ln. 724, Bo'ai St., Zhubei City, Hsinchu County, Taiwan (R.O.C.)	
		TEL : 886-3-656-9065	FAX : 886-3-656-9085
Test site Designation No. TW0006 with FCC.			
☐	Wen Shan	ADD : No.14-1, Ln. 19, Wen 33rd St., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)	
		TEL : 886-3-318-0787	FAX : 886-3-318-0287
Test site Designation No. TW1097 with FCC.			

Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date
RF Conducted	TH06-HY	Raven Chien	22.4~23.5°C / 58~67%	08/Apr/2020~ 15/May/2020
Radiated	03CH02-HY	Streak Liao	21.6~25.2°C / 54.1~ 56.2%	04/Apr/2020~ 08/Jun/2020

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
Conducted Emission (150kHz ~ 30MHz)	0.9 dB	Confidence levels of 95%
Radiated Emission (9kHz ~ 30MHz)	2.4 dB	Confidence levels of 95%
Radiated Emission (30MHz ~ 1,000MHz)	3.7 dB	Confidence levels of 95%
Radiated Emission (1GHz ~ 18GHz)	3.6 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	3.5 dB	Confidence levels of 95%
Conducted Emission	1.0 dB	Confidence levels of 95%
Temperature	0.41 °C	Confidence levels of 95%
Humidity	3.4 %	Confidence levels of 95%

2 Test Configuration of EUT

2.1 Test Condition

Condition Item	Abbreviation/Remark	Remark
TnomVnom	Tnom	20°C
-	Vnom	120V

2.2 Test Channel Mode

Non-Beamforming
Radio 1_4T1S

Test Software	QPST
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Mode	Power Setting
802.11a_Nss1,(6Mbps)_4TX	-
5260MHz	12
5300MHz	12
5320MHz	12
5500MHz	12
5580MHz	12
5700MHz	12
5720MHz Straddle 5.47-5.725GHz	12.5
5720MHz Straddle 5.725-5.85GHz	12.5
802.11ac VHT20_Nss1,(MCS0)_4TX	-
5260MHz	12.5
5300MHz	12
5320MHz	12
5500MHz	12.5
5580MHz	12.5
5700MHz	12
5720MHz Straddle 5.47-5.725GHz	12.5
5720MHz Straddle 5.725-5.85GHz	12.5
802.11ac VHT40_Nss1,(MCS0)_4TX	-
5270MHz	15
5310MHz	14.5
5510MHz	14.5
5550MHz	15



Mode	Power Setting
5670MHz	14.5
5710MHz Straddle 5.47-5.725GHz	15
5710MHz Straddle 5.725-5.85GHz	15
802.11ac VHT80_Nss1,(MCS0)_4TX	-
5290MHz	13.5
5530MHz	15
5610MHz	17.5
5690MHz Straddle 5.47-5.725GHz	16.5
5690MHz Straddle 5.725-5.85GHz	16.5
802.11ax HEW20_Nss1,(MCS0)_4TX	-
5260MHz	12.5
5300MHz	12
5320MHz	12
5500MHz	12.5
5580MHz	12.5
5700MHz	12.5
5720MHz Straddle 5.47-5.725GHz	13
5720MHz Straddle 5.725-5.85GHz	13
802.11ax HEW40_Nss1,(MCS0)_4TX	-
5270MHz	15
5310MHz	15
5510MHz	15
5550MHz	15
5670MHz	15
5710MHz Straddle 5.47-5.725GHz	15
5710MHz Straddle 5.725-5.85GHz	15
802.11ax HEW80_Nss1,(MCS0)_4TX	-
5290MHz	13.5
5530MHz	15
5610MHz	17.5
5690MHz Straddle 5.47-5.725GHz	16.5
5690MHz Straddle 5.725-5.85GHz	16.5

**Radio 3_1T1S**

Mode	Power Setting
802.11a_Nss1,(6Mbps)_1TX	-
5260MHz	16.5
5300MHz	16.5
5320MHz	16.5
5500MHz	14
5580MHz	14
5700MHz	13.5
5720MHz Straddle 5.47-5.725GHz	13
5720MHz Straddle 5.725-5.85GHz	13
802.11ac VHT20_Nss1,(MCS0)_1TX	-
5260MHz	16.5
5300MHz	16.5
5320MHz	16.5
5500MHz	14
5580MHz	14
5700MHz	13
5720MHz Straddle 5.47-5.725GHz	12.5
5720MHz Straddle 5.725-5.85GHz	12.5
802.11ac VHT40_Nss1,(MCS0)_1TX	-
5270MHz	17
5310MHz	10
5510MHz	10.5
5550MHz	15
5670MHz	14
5710MHz Straddle 5.47-5.725GHz	14
5710MHz Straddle 5.725-5.85GHz	14
802.11ac VHT80_Nss1,(MCS0)_1TX	-
5290MHz	7
5530MHz	9
5610MHz	16.5
5690MHz Straddle 5.47-5.725GHz	13.5
5690MHz Straddle 5.725-5.85GHz	13

**Beamforming
Radio 1_4T1S**

Test Software	CMD
Mode	Power Setting
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	-
5260MHz	16.5
5300MHz	16.5
5320MHz	16.5
5500MHz	16.5
5580MHz	16.5
5700MHz	16.5
5720MHz Straddle 5.47-5.725GHz	16.5
5720MHz Straddle 5.725-5.85GHz	16.5
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	-
5270MHz	16.5
5310MHz	16.5
5510MHz	16.5
5550MHz	16.5
5670MHz	16.5
5710MHz Straddle 5.47-5.725GHz	16.5
5710MHz Straddle 5.725-5.85GHz	16.5
802.11ac VHT80-BF_Nss1,(MCS0)_4TX	-
5290MHz	16.5
5530MHz	16.5
5610MHz	16.5
5690MHz Straddle 5.47-5.725GHz	17.5
5690MHz Straddle 5.725-5.85GHz	17.5
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	-
5260MHz	16.5
5300MHz	16.5
5320MHz	16.5
5500MHz	16.5
5580MHz	16.5
5700MHz	16.5
5720MHz Straddle 5.47-5.725GHz	16.5
5720MHz Straddle 5.725-5.85GHz	16.5



Mode	Power Setting
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	-
5270MHz	16.5
5310MHz	16.5
5510MHz	16.5
5550MHz	16.5
5670MHz	16.5
5710MHz Straddle 5.47-5.725GHz	16.5
5710MHz Straddle 5.725-5.85GHz	16.5
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	-
5290MHz	16.5
5530MHz	16.5
5610MHz	16.5
5690MHz Straddle 5.47-5.725GHz	17.5
5690MHz Straddle 5.725-5.85GHz	17.5

2.3 The Worst Case Measurement Configuration

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

The Worst Case Mode for Following Conformance Tests			
Tests Item	Unwanted Emissions		
Test Condition	Radiated measurement If EUT consist of multiple antenna assembly (multiple antenna are used in EUT regardless of spatial multiplexing MIMO configuration), the radiated test should be performed with highest antenna gain of each antenna type.		
Operating Mode < 1GHz	CTX		
1	PoE mode (Non-Beamforming_Radio 1_4T1S)		
2	PoE mode (Non-Beamforming_Radio 3_1T1S)		
3	PoE mode (Beamforming_Radio 1_4T1S)		
Operating Mode > 1GHz	CTX		
Orthogonal Planes of EUT	X Plane	Y Plane	Z Plane
			
Worst Planes of EUT	V	V	V

The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis
Operating Mode	CTX
1	Radio1 WLAN 5G+ Radio2 WLAN 2.4G+ Radio3 WLAN 2.4G+ Bluetooth
2	Radio1 WLAN 5G+ Radio2 WLAN 2.4G+ Radio3 WLAN 5G+ Bluetooth
Refer to Sporton Test Report No.: FA041301-01 for Co-location RF Exposure Evaluation.	

2.4 Accessories

Accessories				
Mounting bracket	Brand Name	TIMSON	Model Name	BRACKET MOUNT CRADLE

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

2.5 Support Equipment

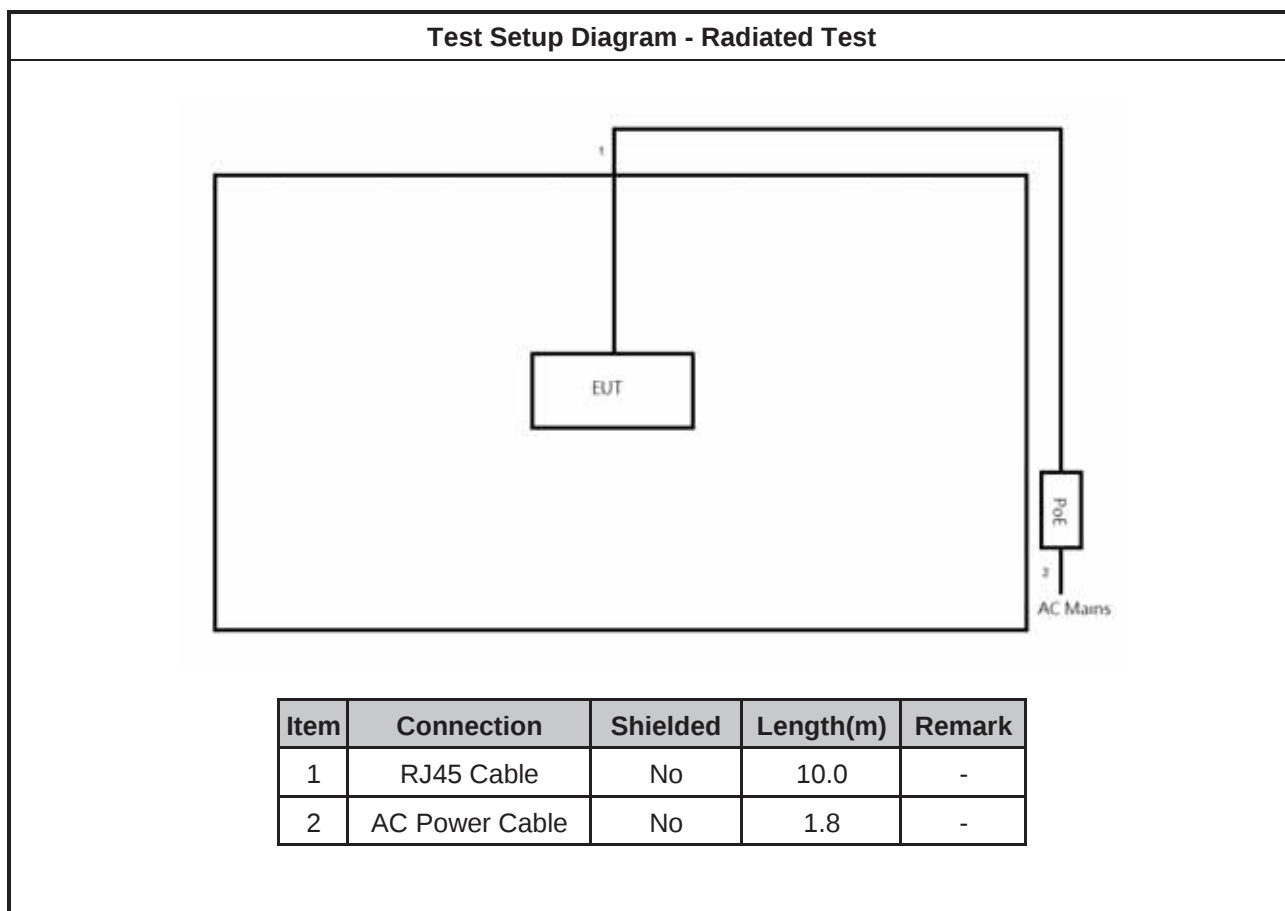
Support Equipment – Conducted					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	Notebook	DELL	E5410	-	-
2	Adapter for NB	DELL	HA65NM130	-	-
3	PoE	CISCO	MA-INJ-4	-	Note 1
4	Notebook for Beamforming	DELL	E5410	-	-
5	Adapter for NB for Beamforming	DELL	HA65NM130	-	-
6	PoE for Beamforming	PHIHONG	POEA33U-1ATE	-	Note 1

Note 1: Support equipment No. 3, 6 were provided by customer.

Support Equipment – Radiated					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	RJ45 Cable	Power Sync	CAT-6E-10	-	-
2	PoE	PHIHONG	POEA33U-1ATE	-	Note 1/ Remote
3	AC Power Cable	-	-	-	Note 1/ Remote
4	Notebook	DELL	PP13S	-	Remote
5	Adapter for NB	DELL	AA90PM111	-	Remote
6	LAN Cable	Power Sync	CAT-6E-01	-	Remote

Note 1: Support equipment No. 2, 3 were provided by customer.

2.6 Test Setup Diagram



3 Transmitter Test Result

3.1 Emission Bandwidth

3.1.1 Emission Bandwidth Limit

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

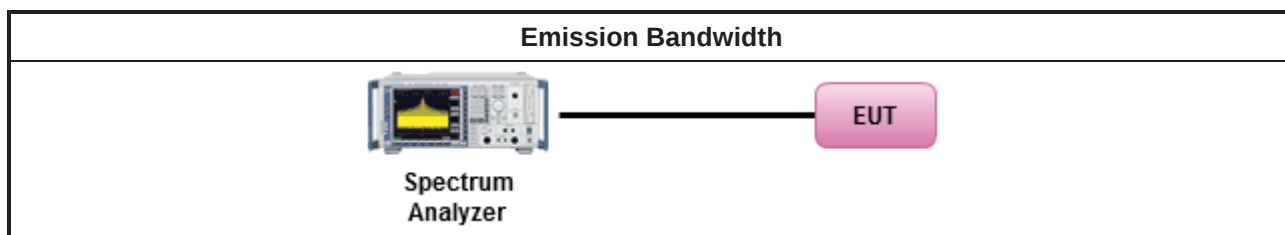
3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

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

3.1.4 Test Setup



3.1.5 Test Result of Emission Bandwidth

Refer as Appendix A

3.2 Maximum Conducted Output Power

3.2.1 Maximum Conducted Output Power Limit

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

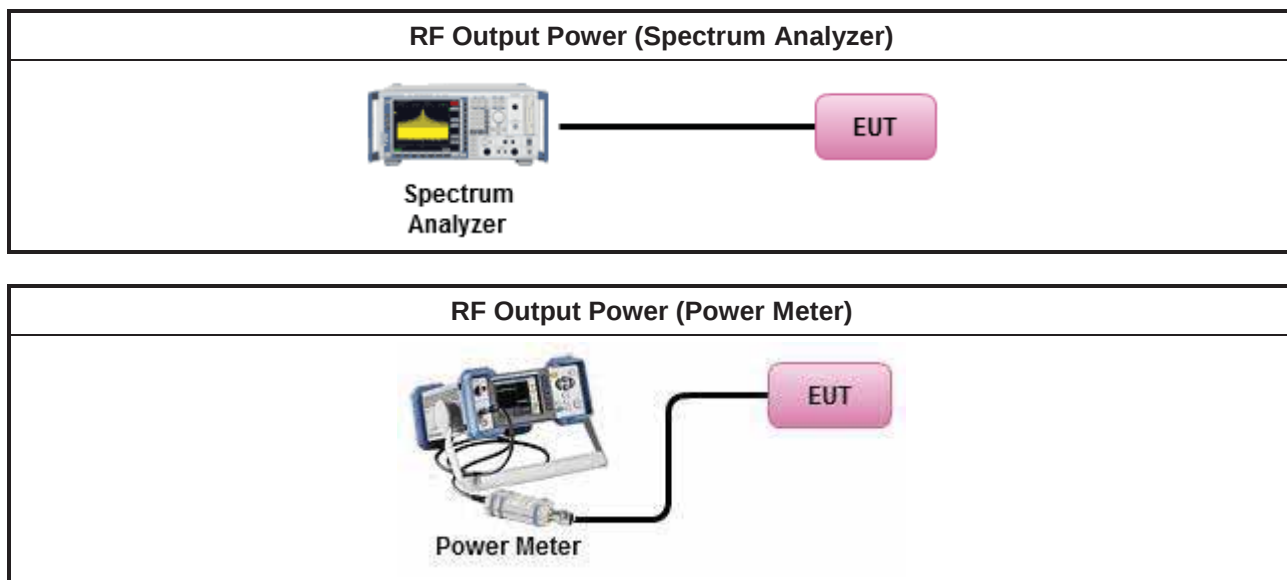
3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

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

3.2.4 Test Setup



3.2.5 Test Result of Maximum Conducted Output Power

Refer as Appendix B

3.3 Peak Power Spectral Density

3.3.1 Peak Power Spectral Density Limit

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

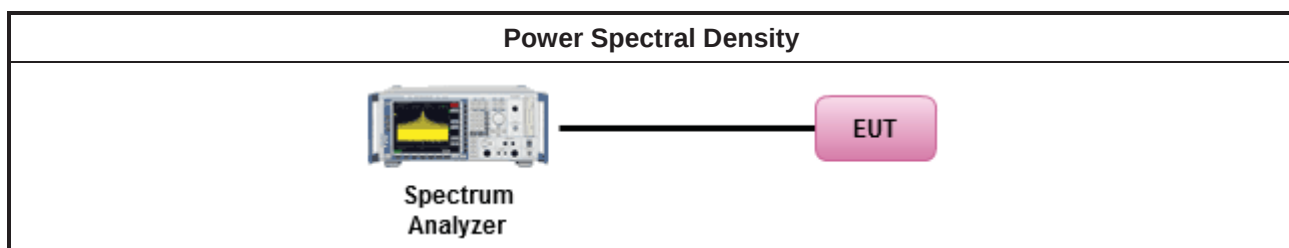
3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

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

3.3.4 Test Setup



3.3.5 Test Result of Peak Power Spectral Density

Refer as Appendix C

3.4 Unwanted Emissions

3.4.1 Transmitter Radiated Unwanted Emissions Limit

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

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

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

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

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

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

3.4.2 Measuring Instruments

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

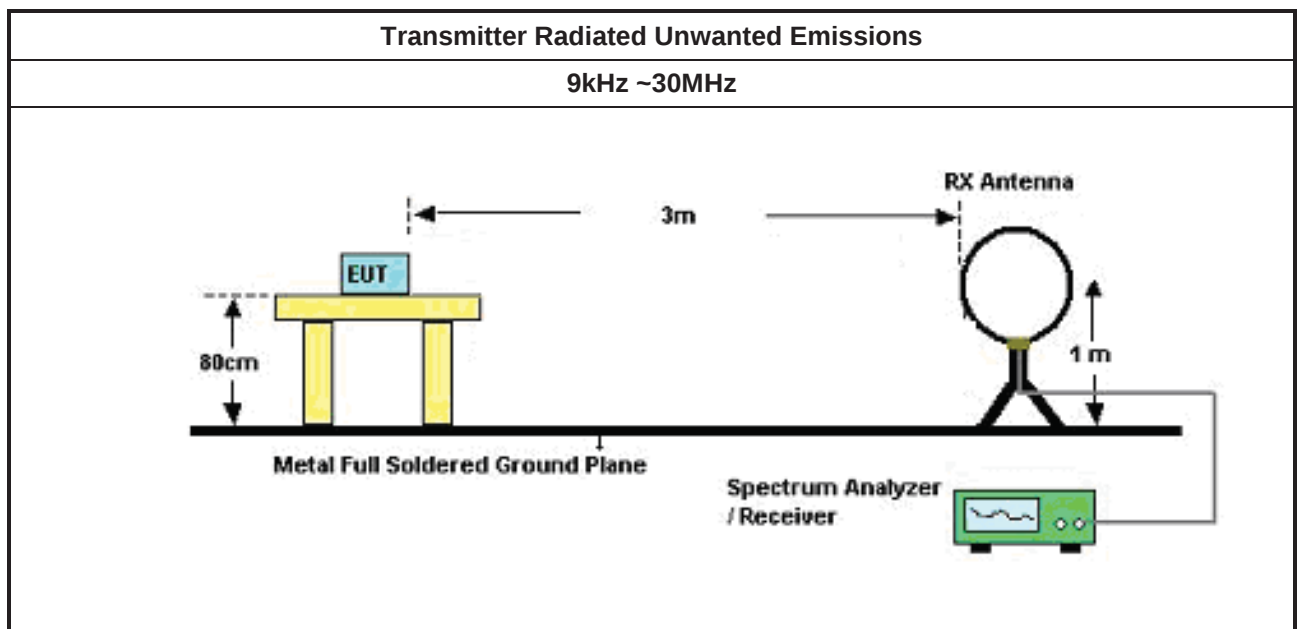
3.4.3 Test Procedures

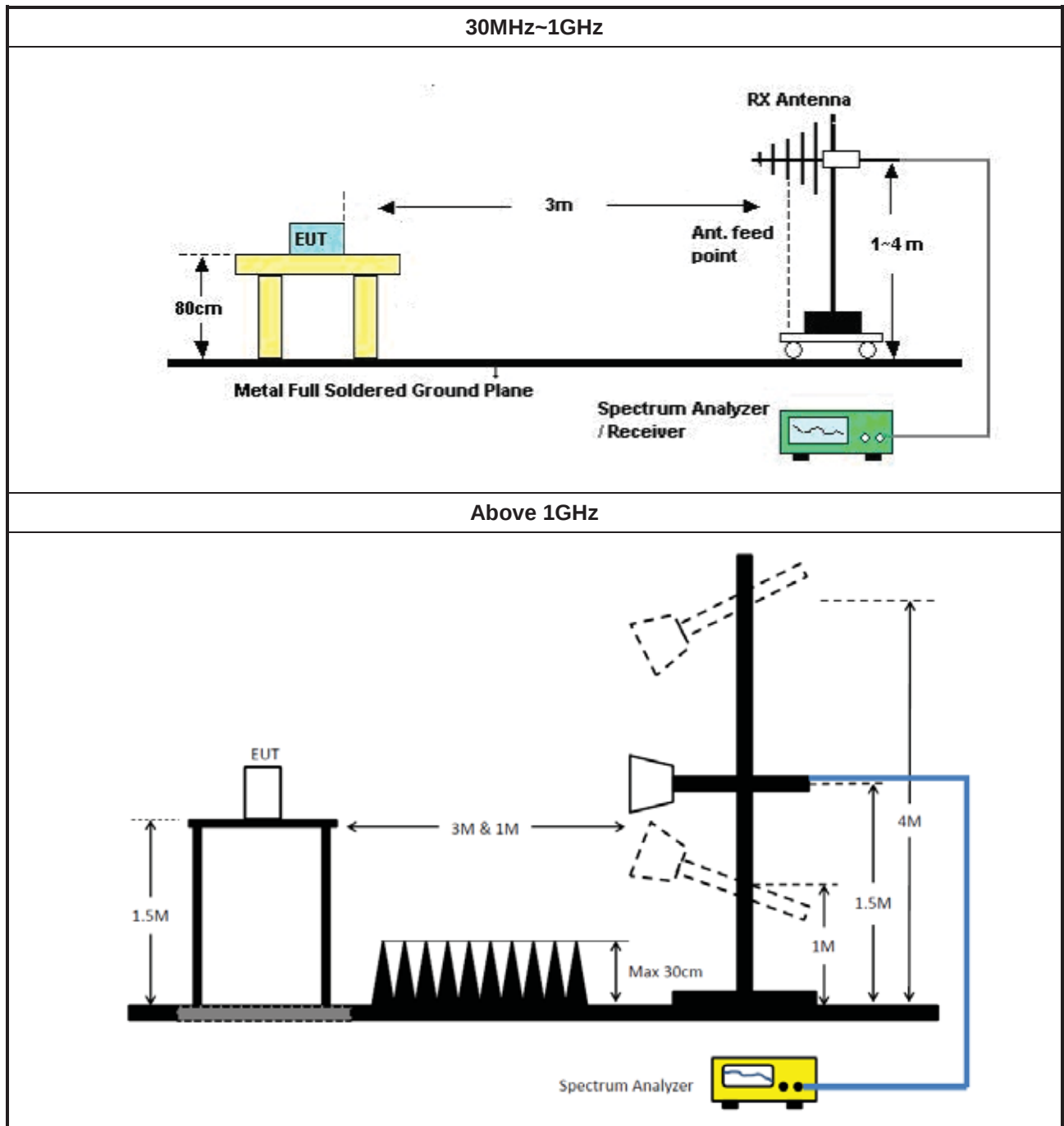
Test Method	
Measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. Measurements shall not be performed at a distance greater than 30 m for frequencies above 30 MHz, unless it can be further demonstrated that measurements at a distance of 30 m or less are impractical. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements).	
The average emission levels shall be measured in [duty cycle $\geq$ 98 or duty factor].	
For the transmitter unwanted emissions shall be measured using following options below:	
	Refer as KDB 789033, clause G)2) for unwanted emissions into non-restricted bands.
	Refer as KDB 789033, clause G)1) for unwanted emissions into restricted bands.
	☒ Refer as KDB 789033, G)6) Method VB (ANSI C63.10, clause 4.1.4.2.3), Reduced VBW.
	☒ Refer as KDB 789033, clause G)5) (ANSI C63.10, clause 4.1.4.2.2), measurement procedure peak limit.
For radiated measurement.	
	Refer as ANSI C63.10, clause 6.4 for radiated emissions below 30 MHz and test distance is 3m.
	Refer as ANSI C63.10, clause 6.5 for radiated emissions 30 MHz to 1 GHz and test distance is 3m.
	Refer as ANSI C63.10, clause 6.6 for radiated emissions above 1GHz.
The any unwanted emissions level shall not exceed the fundamental emission level.	
All amplitude of spurious emissions that are attenuated by more than 20 dB below the permissible value has no need to be reported.	

Test Method	
For conducted and cabinet radiation measurement, refer as KDB 789033, clause G)3).	
	For conducted unwanted emissions into non-restricted bands (relative emission limits). Devices with multiple transmit chains: Refer as KDB 662911, when testing out-of-band and spurious emissions against relative emission limits, tests may be performed on each output individually without summing or adding 10 log(N) if the measurements are made relative to the in-band emissions on the individual outputs.
	For conducted unwanted emissions into restricted bands (absolute emission limits). Devices with multiple transmit chains using options given below: (1) Measure and sum the spectra across the outputs or (2) Measure and add 10 log(N) dB
	For KDB 662911 The methodology described here may overestimate array gain, thereby resulting in apparent failures to satisfy the out-of-band limits even if the device is actually compliant. In such cases, compliance may be demonstrated by performing radiated tests around the frequencies at which the apparent failures occurred.

Use the following spectrum analyzer settings:	
	Set RBW=100 kHz for $f < 1$ GHz; VBW=3 * RBW; Sweep = auto; Detector function = peak; Trace = max hold.
	Set RBW = 1 MHz, VBW= 3MHz for $f \geq 1$ GHz for peak measurement. For average measurement, refer as 1.1.4.
KDB 414788 Open-Field Test Sites and Chamber Correlation Justification.	
	Based on FCC 15.31 (f) (2): measurements may be performed at a distance closer than that specified in regulations; however, an attempt should be made to avoid making measurements in the near field.
	Open-field site and chamber correlation testing had been performed and chamber measured test result is the worst case test result.

3.4.4 Test Setup





3.4.5 Transmitter Unwanted Emissions (Below 30MHz)

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

3.4.6 Test Result of Transmitter Unwanted Emissions

Refer as Appendix D

4 Test Equipment and Calibration Data

Instrument for Conducted Test

Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
Spectrum Analyzer	R&S	FSV 40	101029	10KHz ~ 40GHz	01/Oct/2019	30/Sep/2020
Pulse Power Sensor	Anritsu	MA2411B	1027452	300MHz ~ 40GHz	18/Mar/2020	17/Mar/2021
Power Meter	Anritsu	ML2495A	1124009	300MHz ~ 40GHz	18/Mar/2020	17/Mar/2021
SMB100A Signal Generator	R&S	SMB100A03	181147	100kHz~40GHz	12/Nov/2018	10/Nov/2020

Instrument for Radiated Test

Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH02-HY	1GHz ~ 18GHz 3m	29/Aug/2019	28/Aug/2020
Microwave Preamplifier	Agilent	8449B	3008A02373	1GHz ~ 26.5GHz	16/Oct/2019	15/Oct/2020
Spectrum Analyzer	Rohde & Schwarz	FSP40	100593	9kHz ~ 40GHz	27/Feb/2020	26/Feb/2021
RF Cable-high 6m	HUBER+SUHNER	SUCOFLEX104	SN 805193/4	1GHz ~ 40GHz	09/Apr/2019	08/Apr/2020
RF Cable-high 7m	HUBER+SUHNER	SUCOFLEX104	SN 805192/4	1GHz ~ 40GHz	09/Apr/2019	08/Apr/2020
RF Cable-high 6m	HUBER+SUHNER	SUCOFLEX104	SN 805193/4	1GHz ~ 40GHz	08/Apr/2020	07/Apr/2021
RF Cable-high 7m	HUBER+SUHNER	SUCOFLEX104	SN 805192/4	1GHz ~ 40GHz	08/Apr/2020	07/Apr/2021
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170339	18GHz ~ 40GHz	14/Apr/2020	13/Apr/2021
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 01543	1GHz~18GHz	03/Jun/2019	02/Jun/2020
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 01543	1GHz~18GHz	02/Jun/2020	01/Jun/2021
Preamplifier	MITEQ	TTA1840-35-HG	1864481	18GHz ~ 40GHz	05/Aug/2019	04/Aug/2020



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	19.56M	16.408M	16M4D1D	19.26M	16.36M
802.11ac VHT20_Nss1,(MCS0)_4TX	20.85M	17.607M	17M6D1D	20.49M	17.559M
802.11ac VHT40_Nss1,(MCS0)_4TX	40.8M	36.126M	36M1D1D	39.96M	36.078M
802.11ac VHT80_Nss1,(MCS0)_4TX	82.56M	75.61M	75M6D1D	81.48M	75.418M
802.11ax HEW20_Nss1,(MCS0)_4TX	21.66M	18.951M	19M0D1D	20.82M	18.879M
802.11ax HEW40_Nss1,(MCS0)_4TX	41.28M	37.805M	37M8D1D	40.68M	37.709M
802.11ax HEW80_Nss1,(MCS0)_4TX	82.2M	77.241M	77M2D1D	81.96M	76.954M
5.47-5.725GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	19.56M	16.408M	16M4D1D	14.52M	13.166M
802.11ac VHT20_Nss1,(MCS0)_4TX	20.97M	17.631M	17M6D1D	15.084M	13.771M
802.11ac VHT40_Nss1,(MCS0)_4TX	40.8M	36.126M	36M1D1D	34.999M	32.856M
802.11ac VHT80_Nss1,(MCS0)_4TX	82.44M	75.61M	75M6D1D	75.963M	72.239M
802.11ax HEW20_Nss1,(MCS0)_4TX	21.57M	18.927M	18M9D1D	15.414M	14.417M
802.11ax HEW40_Nss1,(MCS0)_4TX	41.34M	37.757M	37M8D1D	35.303M	33.699M
802.11ax HEW80_Nss1,(MCS0)_4TX	82.92M	77.145M	77M1D1D	76.258M	73.05M
5.725-5.85GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	3.15M	3.433M	3M43D1D	3.135M	3.358M
802.11ac VHT20_Nss1,(MCS0)_4TX	3.81M	3.913M	3M91D1D	3.75M	3.898M
802.11ac VHT40_Nss1,(MCS0)_4TX	3.18M	3.478M	3M48D1D	3.15M	3.448M
802.11ac VHT80_Nss1,(MCS0)_4TX	3.255M	3.913M	3M91D1D	3.12M	3.763M
802.11ax HEW20_Nss1,(MCS0)_4TX	4.5M	4.543M	4M54D1D	4.38M	4.528M
802.11ax HEW40_Nss1,(MCS0)_4TX	4.08M	4.093M	4M09D1D	4.035M	4.063M
802.11ax HEW80_Nss1,(MCS0)_4TX	4.095M	4.198M	4M20D1D	3.945M	4.123M

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

Max-OBW = Maximum 99% occupied bandwidth;

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

Min-OBW = Minimum 99% occupied bandwidth;

**Result**

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)	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	19.38M	16.384M	19.56M	16.36M	19.56M	16.384M	19.32M	16.384M
5300MHz	Pass	Inf	19.26M	16.384M	19.53M	16.36M	19.44M	16.384M	19.44M	16.408M
5320MHz	Pass	Inf	19.26M	16.384M	19.53M	16.408M	19.38M	16.384M	19.47M	16.36M
5500MHz	Pass	Inf	19.32M	16.384M	19.5M	16.384M	19.53M	16.36M	19.38M	16.384M
5580MHz	Pass	Inf	19.41M	16.384M	19.56M	16.384M	19.38M	16.36M	19.56M	16.408M
5700MHz	Pass	Inf	19.38M	16.36M	19.53M	16.408M	19.53M	16.384M	19.47M	16.384M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	14.726M	13.166M	14.644M	13.207M	14.52M	13.166M	14.685M	13.166M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	3.15M	3.373M	3.15M	3.433M	3.135M	3.358M	3.15M	3.373M
802.11ac VHT20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5260MHz	Pass	Inf	20.52M	17.607M	20.85M	17.583M	20.49M	17.583M	20.79M	17.559M
5300MHz	Pass	Inf	20.61M	17.607M	20.55M	17.559M	20.49M	17.583M	20.79M	17.583M
5320MHz	Pass	Inf	20.55M	17.583M	20.7M	17.583M	20.7M	17.583M	20.82M	17.559M
5500MHz	Pass	Inf	20.4M	17.607M	20.55M	17.583M	20.64M	17.583M	20.79M	17.631M
5580MHz	Pass	Inf	20.97M	17.583M	20.79M	17.607M	20.73M	17.583M	20.7M	17.559M
5700MHz	Pass	Inf	20.64M	17.583M	20.67M	17.559M	20.82M	17.583M	20.64M	17.583M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	15.345M	13.812M	15.084M	13.771M	15.304M	13.784M	15.208M	13.798M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	3.75M	3.913M	3.765M	3.898M	3.78M	3.898M	3.81M	3.913M
802.11ac VHT40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5270MHz	Pass	Inf	40.26M	36.126M	40.32M	36.078M	40.32M	36.078M	40.5M	36.078M
5310MHz	Pass	Inf	39.96M	36.126M	40.38M	36.078M	40.44M	36.078M	40.8M	36.078M
5510MHz	Pass	Inf	40.14M	36.126M	40.2M	36.03M	40.44M	36.126M	40.68M	36.03M
5550MHz	Pass	Inf	40.2M	36.078M	40.74M	36.03M	40.26M	36.078M	40.8M	36.126M
5670MHz	Pass	Inf	40.26M	36.078M	40.5M	36.078M	40.44M	36.078M	40.38M	36.078M
5710MHz Straddle 5.47-5.725GHz	Pass	Inf	34.999M	32.856M	35.1M	32.924M	35.201M	32.89M	35.505M	32.924M
5710MHz Straddle 5.725-5.85GHz	Pass	500k	3.15M	3.463M	3.15M	3.448M	3.18M	3.448M	3.15M	3.478M
802.11ac VHT80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5290MHz	Pass	Inf	81.48M	75.418M	82.56M	75.61M	81.48M	75.418M	81.96M	75.418M
5530MHz	Pass	Inf	82.08M	75.514M	81.84M	75.322M	82.32M	75.514M	81.36M	75.322M
5610MHz	Pass	Inf	81.6M	75.514M	82.44M	75.61M	81.96M	75.418M	81.72M	75.514M
5690MHz Straddle 5.47-5.725GHz	Pass	Inf	75.963M	72.239M	76.258M	72.534M	76.11M	72.386M	76.331M	72.313M
5690MHz Straddle 5.725-5.85GHz	Pass	500k	3.135M	3.763M	3.12M	3.913M	3.135M	3.778M	3.255M	3.823M
802.11ax HEW20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5260MHz	Pass	Inf	21.24M	18.927M	21.21M	18.903M	21.03M	18.927M	21.18M	18.927M
5300MHz	Pass	Inf	20.82M	18.879M	21.51M	18.879M	21.66M	18.903M	21.48M	18.951M
5320MHz	Pass	Inf	21.15M	18.903M	21.09M	18.903M	21.27M	18.903M	21.57M	18.927M
5500MHz	Pass	Inf	21.27M	18.879M	21.21M	18.879M	21.42M	18.927M	21.48M	18.903M
5580MHz	Pass	Inf	20.97M	18.927M	21.12M	18.879M	21.12M	18.879M	21.06M	18.879M
5700MHz	Pass	Inf	20.82M	18.879M	21.57M	18.927M	21.21M	18.927M	21.3M	18.927M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	15.414M	14.43M	15.936M	14.43M	15.441M	14.417M	15.538M	14.444M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	4.44M	4.528M	4.5M	4.543M	4.38M	4.528M	4.485M	4.528M
802.11ax HEW40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5270MHz	Pass	Inf	40.98M	37.757M	41.22M	37.709M	41.22M	37.709M	40.92M	37.757M
5310MHz	Pass	Inf	40.68M	37.757M	41.28M	37.805M	40.74M	37.709M	40.92M	37.757M



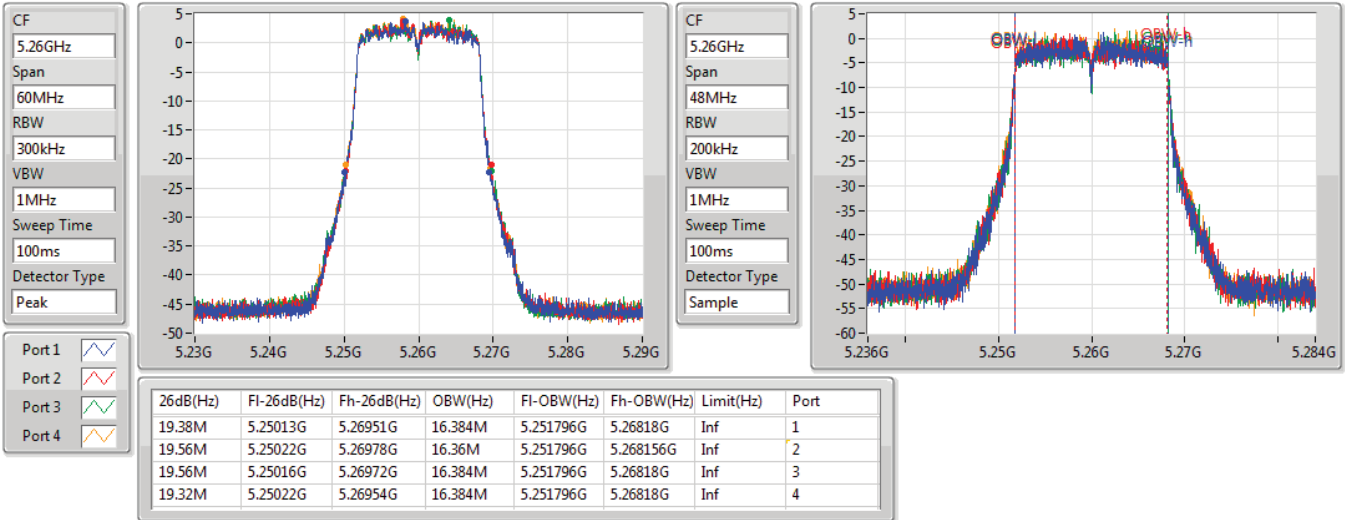
Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)	Port 3-N dB (Hz)	Port 3-OBW (Hz)	Port 4-N dB (Hz)	Port 4-OBW (Hz)
5510MHz	Pass	Inf	40.62M	37.757M	40.86M	37.661M	40.68M	37.757M	40.98M	37.757M
5550MHz	Pass	Inf	40.86M	37.709M	40.92M	37.661M	40.86M	37.709M	40.92M	37.709M
5670MHz	Pass	Inf	40.98M	37.709M	41.34M	37.757M	40.8M	37.613M	41.04M	37.661M
5710MHz Straddle 5.47-5.725GHz	Pass	Inf	35.303M	33.699M	35.606M	33.699M	35.539M	33.699M	35.336M	33.699M
5710MHz Straddle 5.725-5.85GHz	Pass	500k	4.08M	4.078M	4.035M	4.078M	4.05M	4.093M	4.08M	4.063M
802.11ax HEW80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5290MHz	Pass	Inf	82.08M	77.049M	81.96M	77.241M	82.2M	76.954M	82.08M	76.954M
5530MHz	Pass	Inf	82.08M	77.145M	82.56M	77.049M	82.32M	76.954M	82.08M	76.954M
5610MHz	Pass	Inf	82.56M	77.145M	82.92M	77.049M	82.32M	76.954M	82.68M	77.145M
5690MHz Straddle 5.47-5.725GHz	Pass	Inf	76.331M	73.123M	76.258M	73.05M	76.405M	73.197M	76.405M	73.123M
5690MHz Straddle 5.725-5.85GHz	Pass	500k	4.095M	4.198M	4.065M	4.183M	3.945M	4.153M	3.96M	4.123M

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

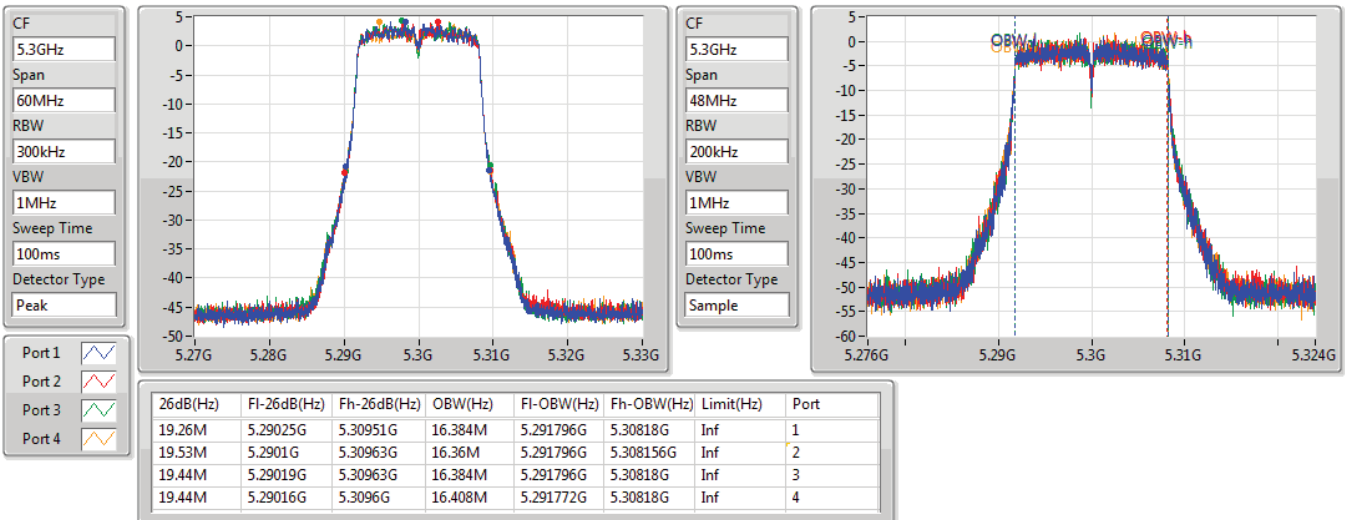
Port X-OBW = Port X 99% occupied bandwidth;

802.11a_Nss1,(6Mbps)_4TX
EBW
5260MHz

28/04/2020

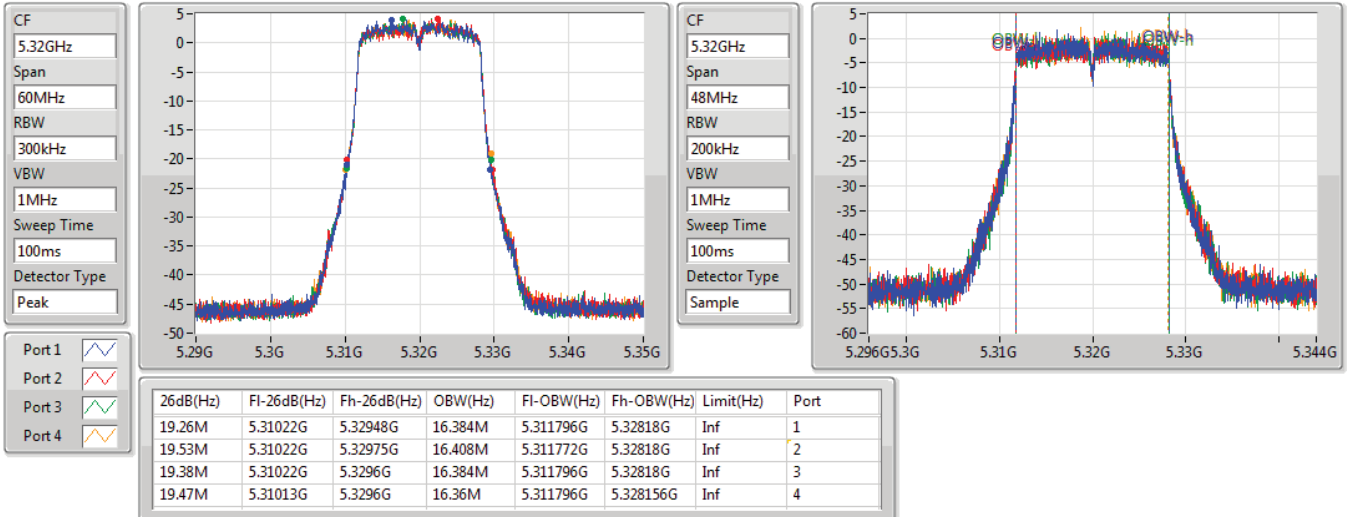

802.11a_Nss1,(6Mbps)_4TX
EBW
5300MHz

28/04/2020

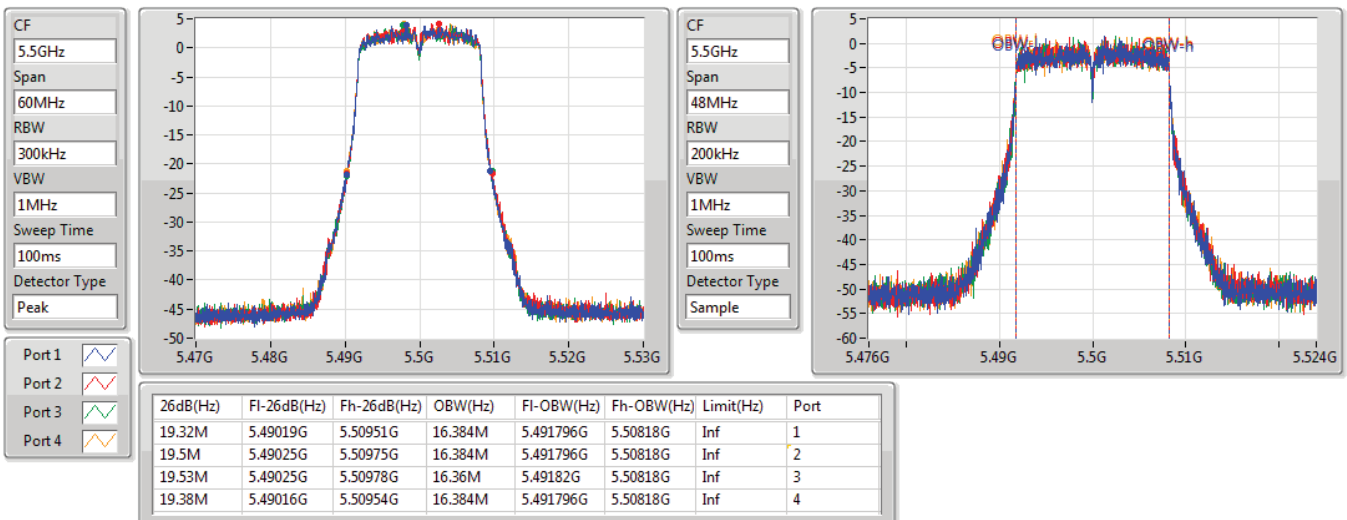


802.11a_Nss1,(6Mbps)_4TX
EBW
5320MHz

28/04/2020

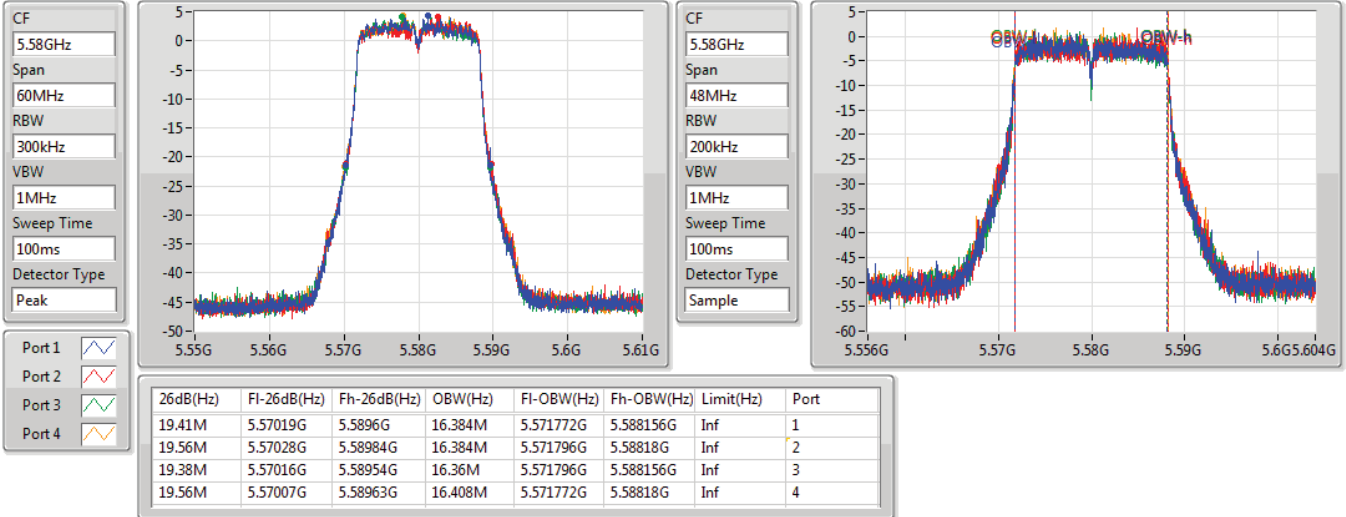

802.11a_Nss1,(6Mbps)_4TX
EBW
5500MHz

28/04/2020

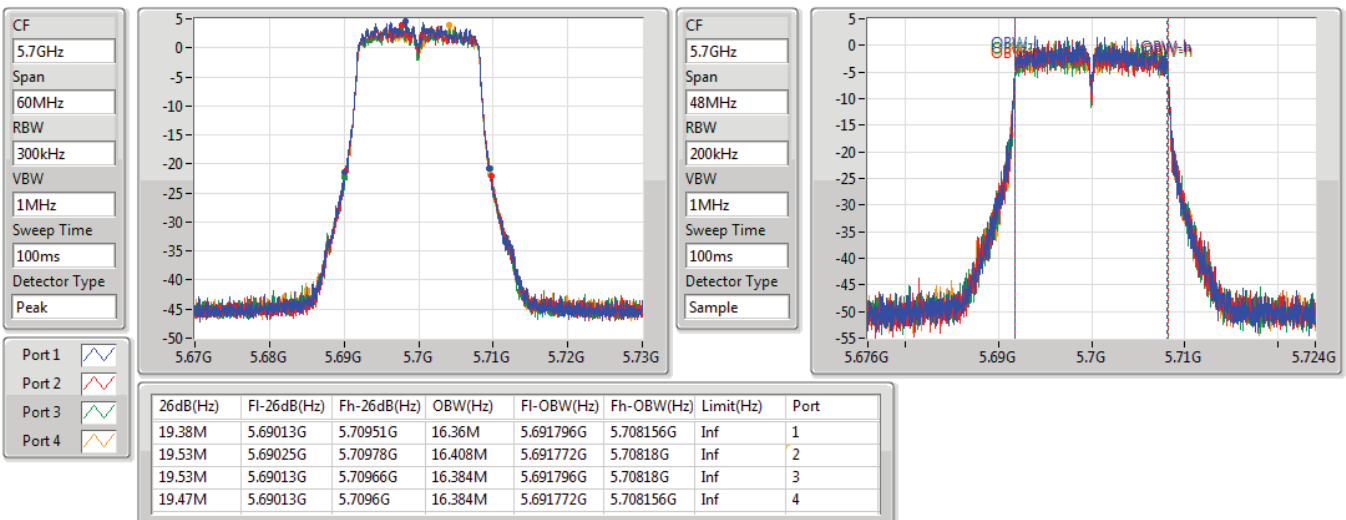


802.11a_Nss1,(6Mbps)_4TX
EBW
5580MHz

28/04/2020

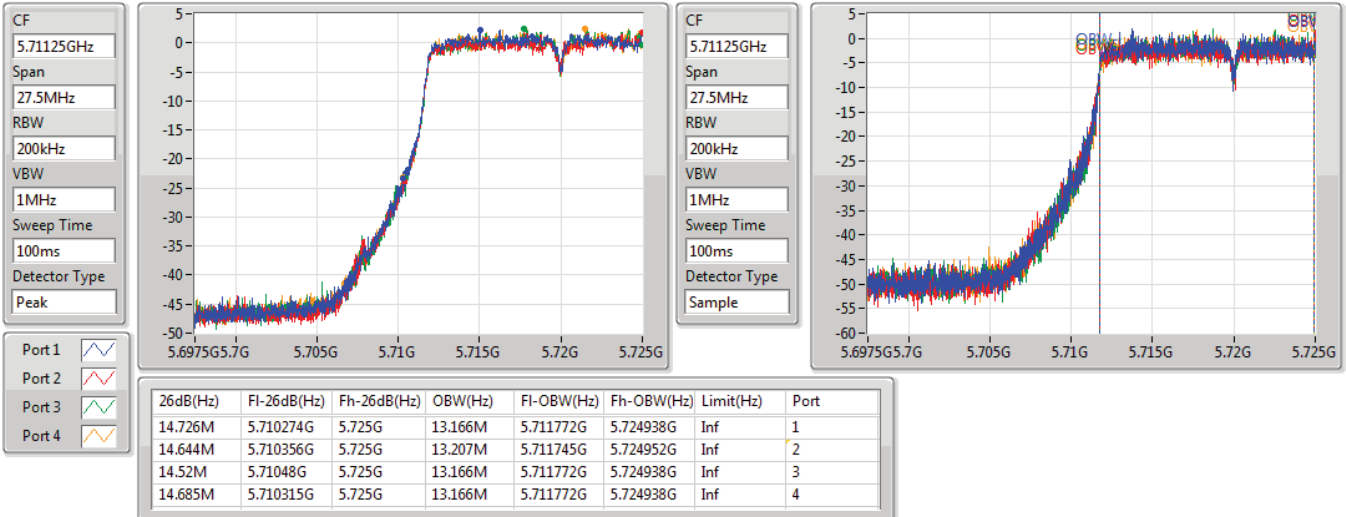

802.11a_Nss1,(6Mbps)_4TX
EBW
5700MHz

28/04/2020

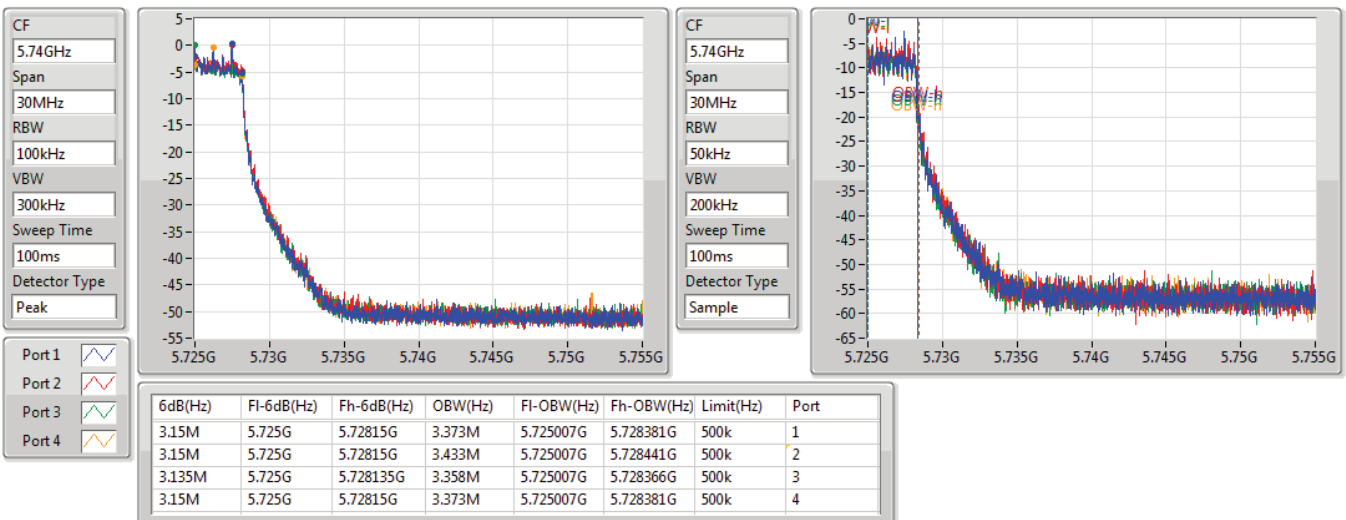


802.11a_Nss1,(6Mbps)_4TX
EBW
5720MHz Straddle 5.47-5.725GHz

28/04/2020

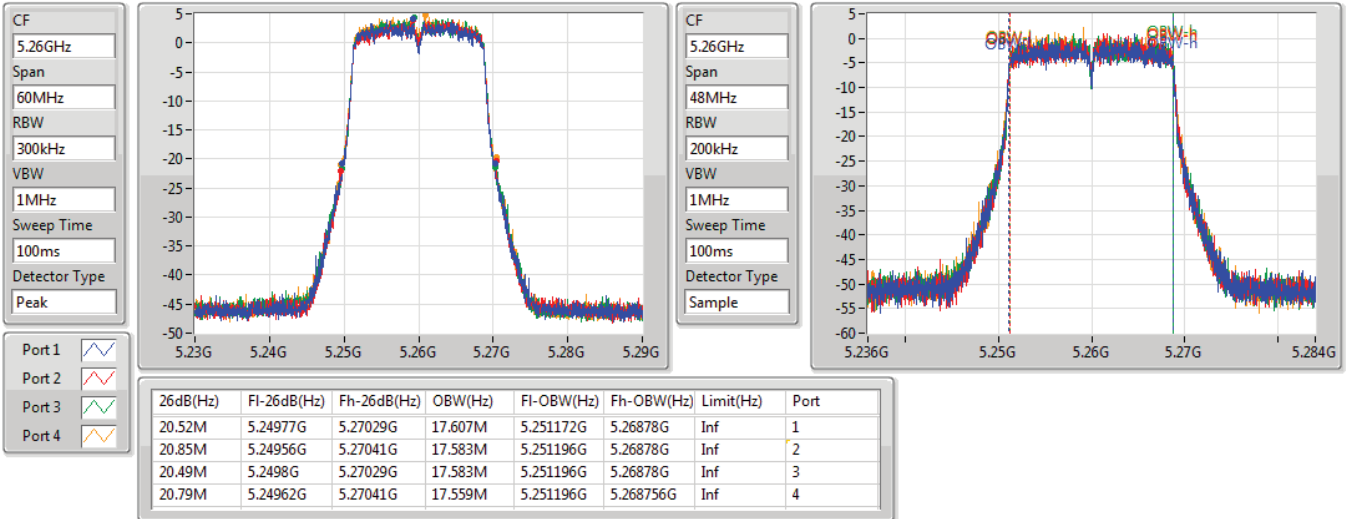

802.11a_Nss1,(6Mbps)_4TX
EBW
5720MHz Straddle 5.725-5.85GHz

28/04/2020

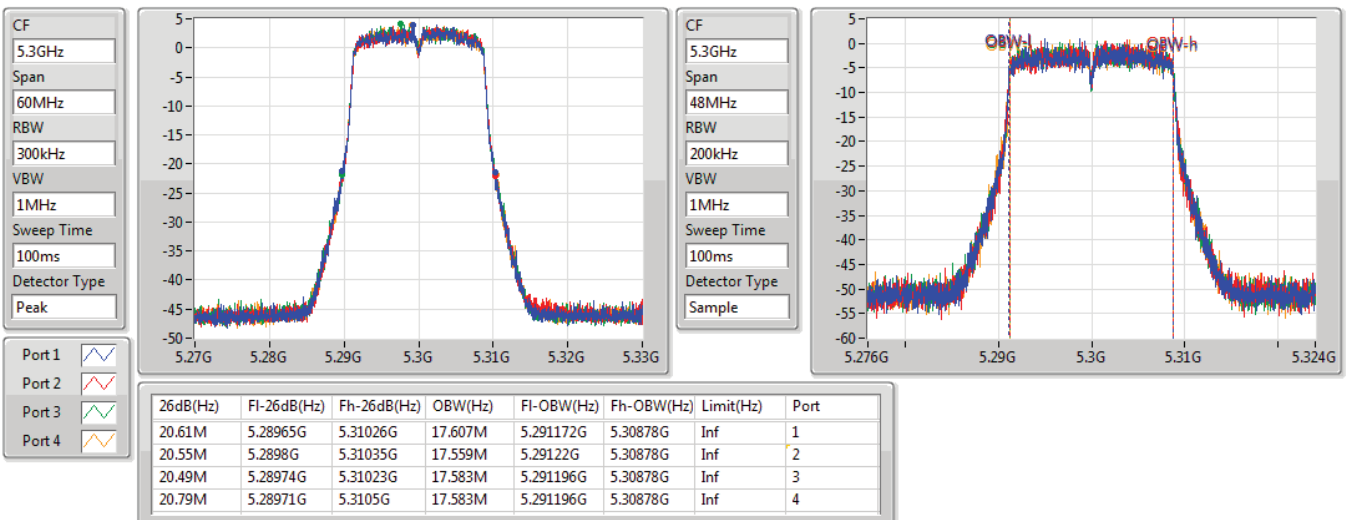


802.11ac VHT20_Nss1,(MCS0)_4TX
EBW
5260MHz

28/04/2020

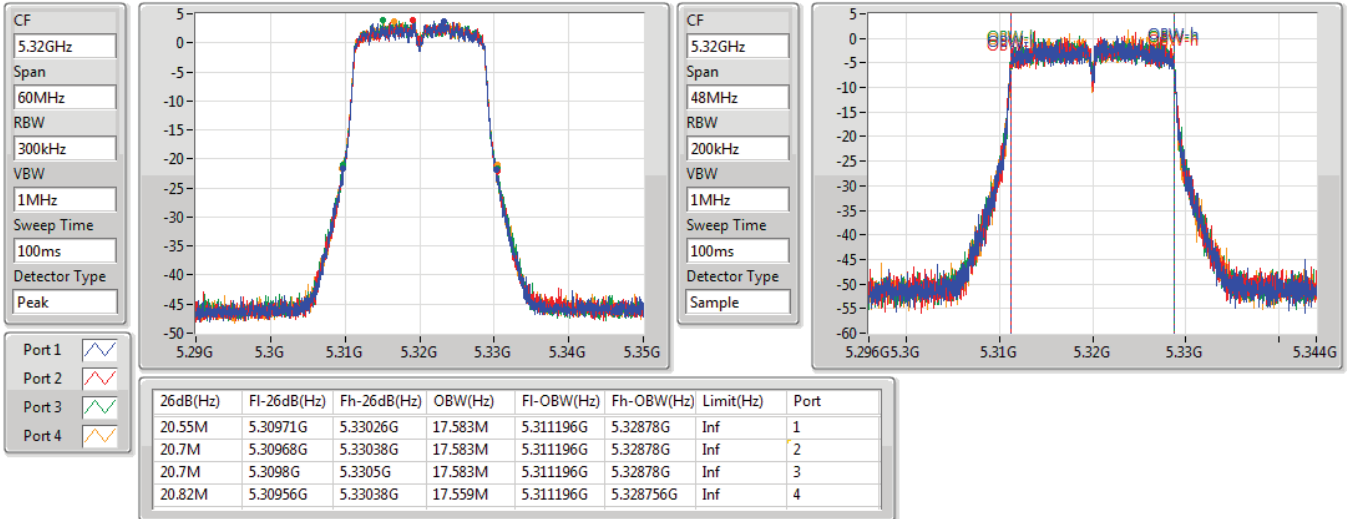

802.11ac VHT20_Nss1,(MCS0)_4TX
EBW
5300MHz

28/04/2020

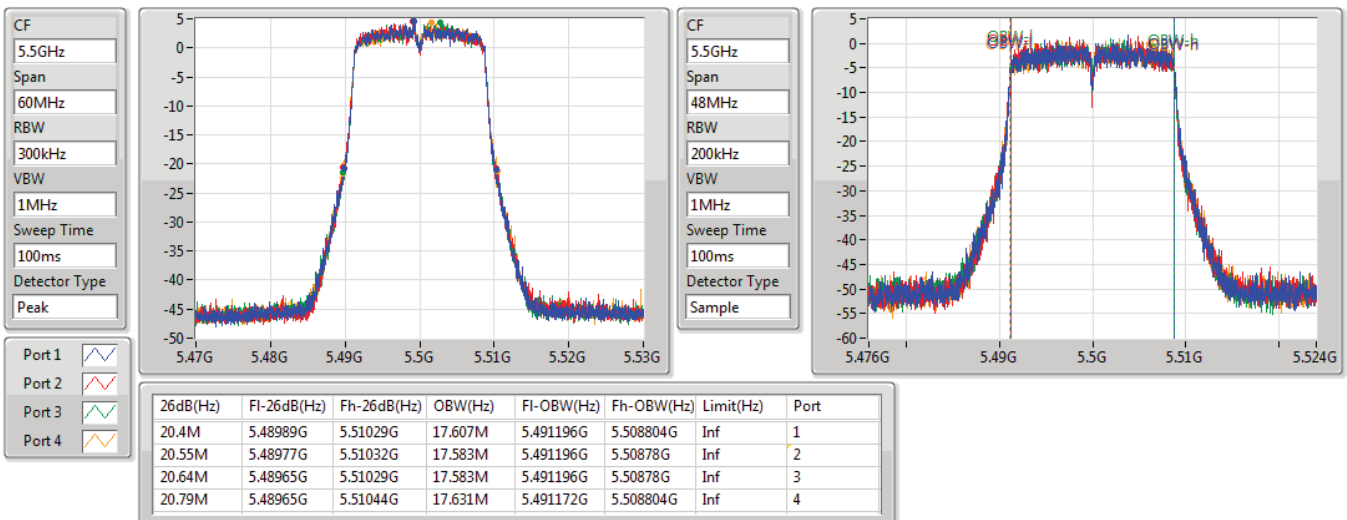


802.11ac VHT20_Nss1,(MCS0)_4TX
EBW
5320MHz

28/04/2020

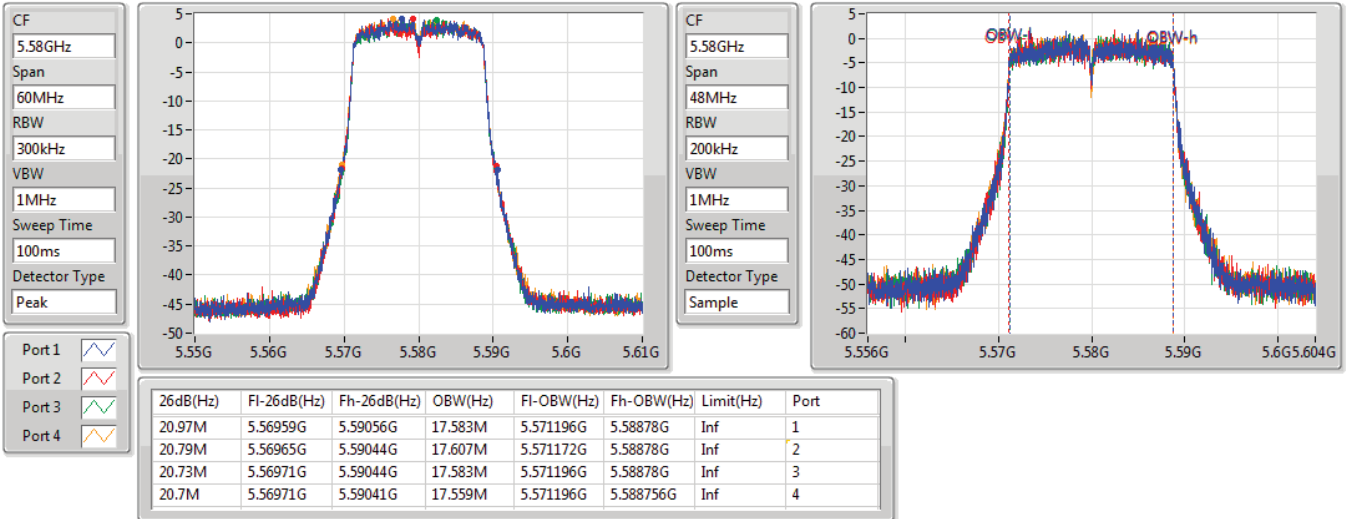

802.11ac VHT20_Nss1,(MCS0)_4TX
EBW
5500MHz

28/04/2020

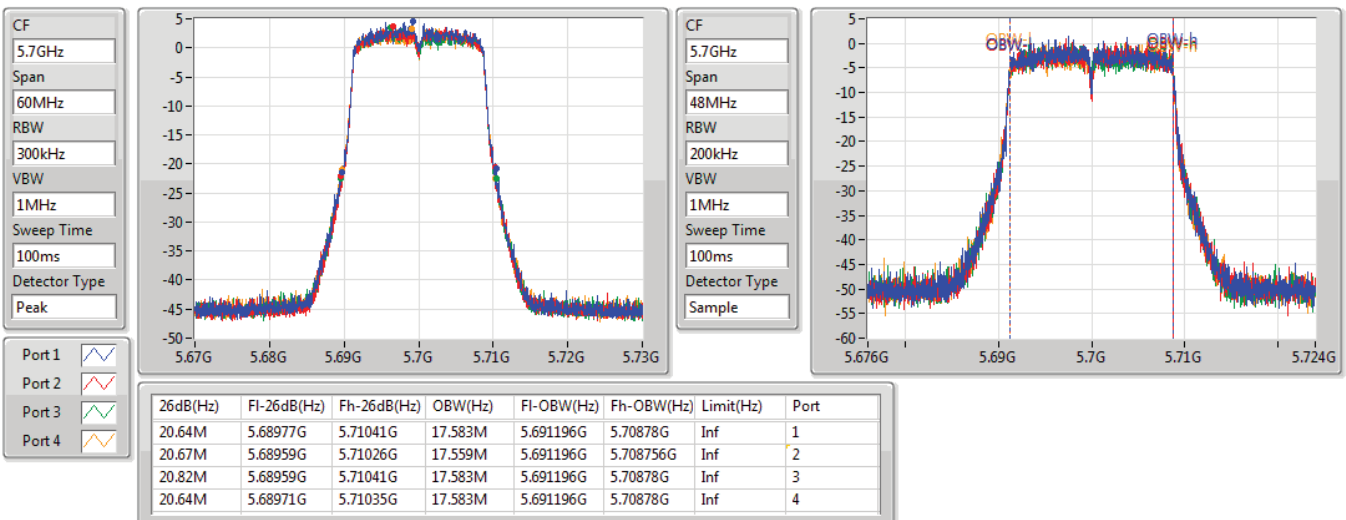


802.11ac VHT20_Nss1,(MCS0)_4TX
EBW
5580MHz

28/04/2020

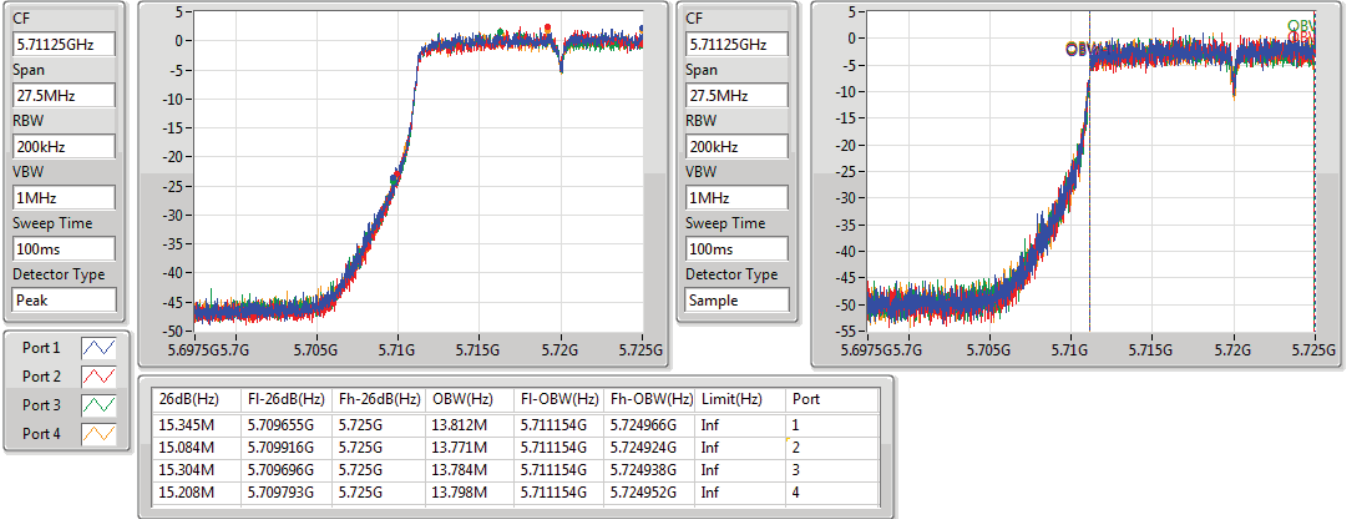

802.11ac VHT20_Nss1,(MCS0)_4TX
EBW
5700MHz

28/04/2020

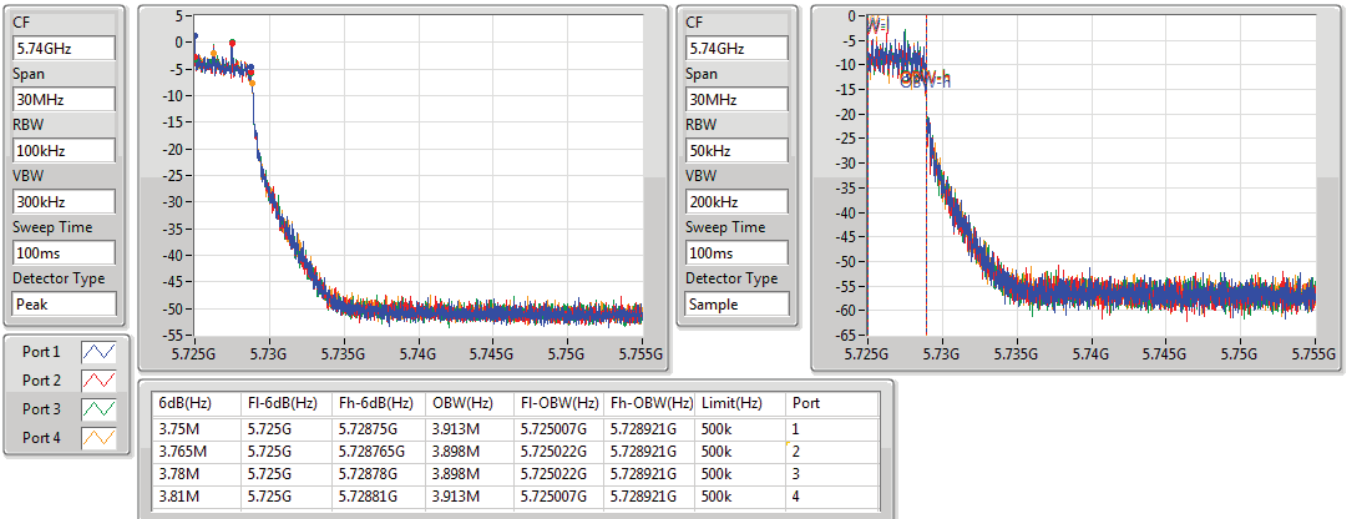


802.11ac VHT20_Nss1,(MCS0)_4TX
EBW
5720MHz Straddle 5.47-5.725GHz

28/04/2020

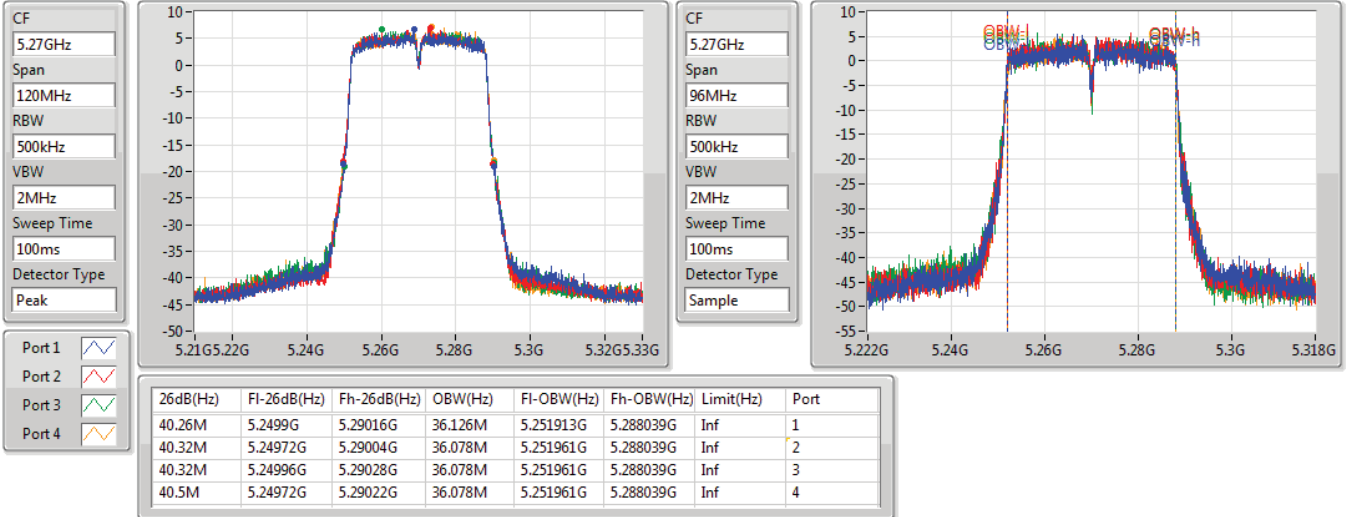

802.11ac VHT20_Nss1,(MCS0)_4TX
EBW
5720MHz Straddle 5.725-5.85GHz

28/04/2020

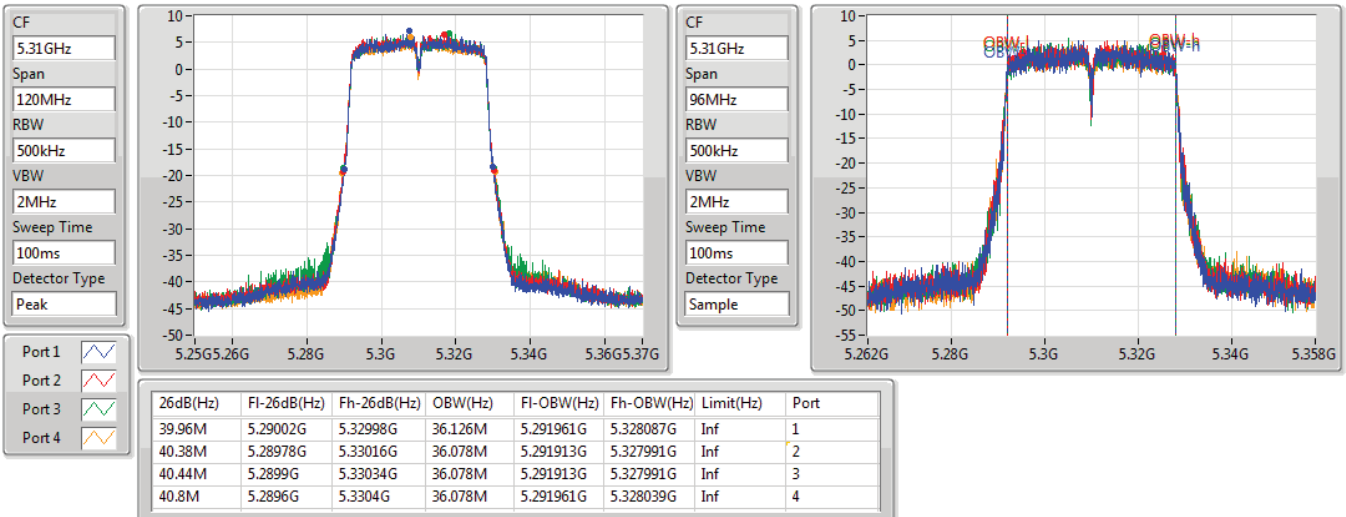


802.11ac VHT40_Nss1,(MCS0)_4TX
EBW
5270MHz

28/04/2020


802.11ac VHT40_Nss1,(MCS0)_4TX
EBW
5310MHz

28/04/2020

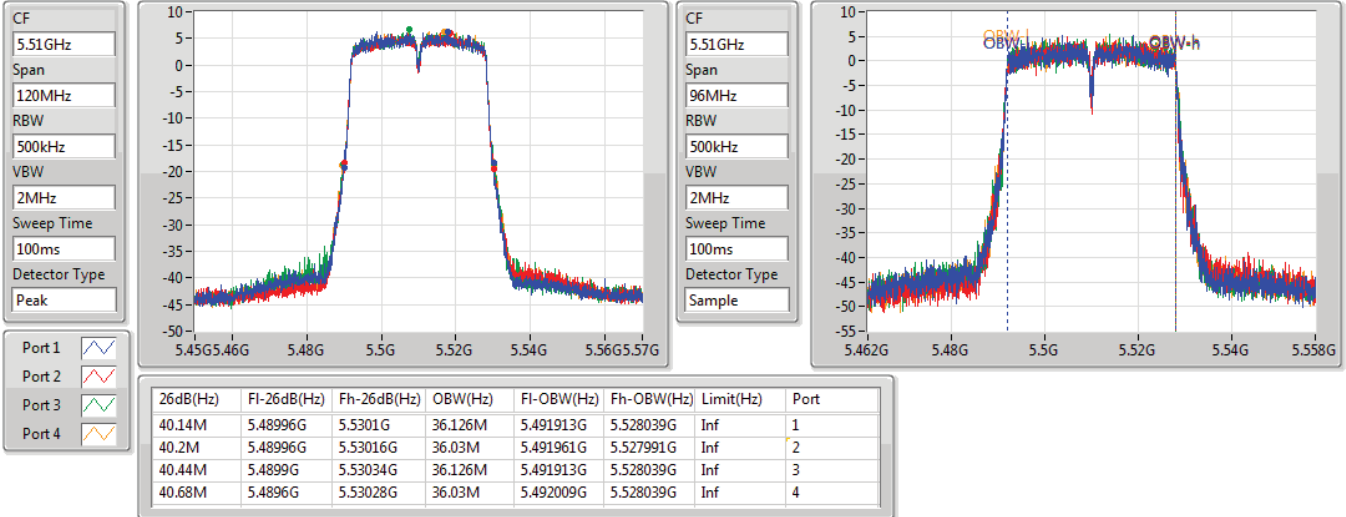


802.11ac VHT40_Nss1,(MCS0)_4TX

EBW

5510MHz

28/04/2020

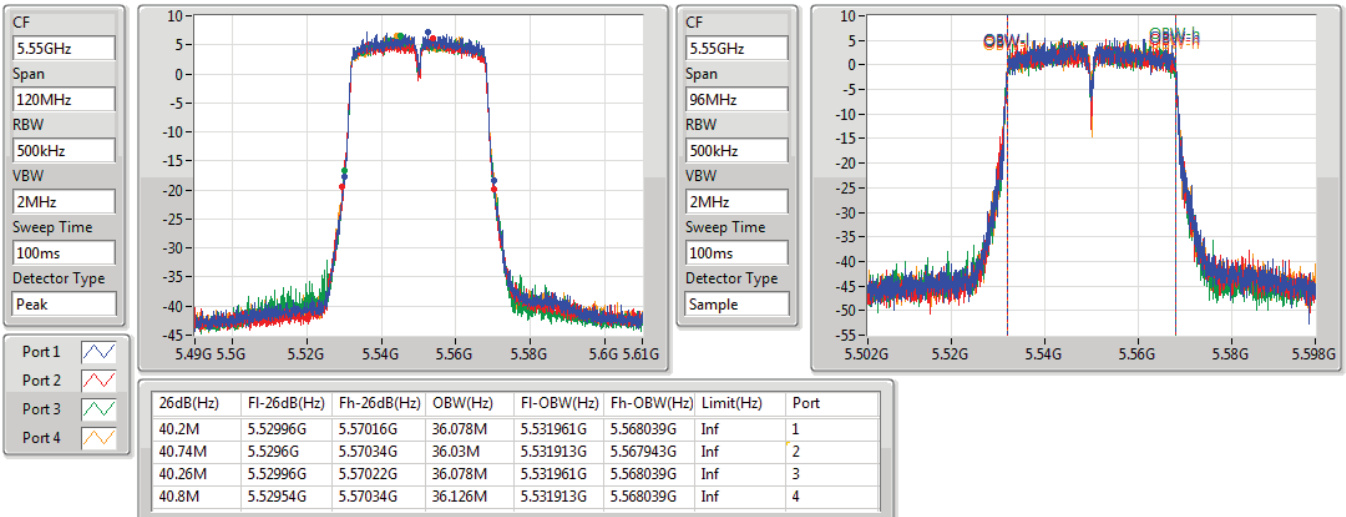


802.11ac VHT40_Nss1,(MCS0)_4TX

EBW

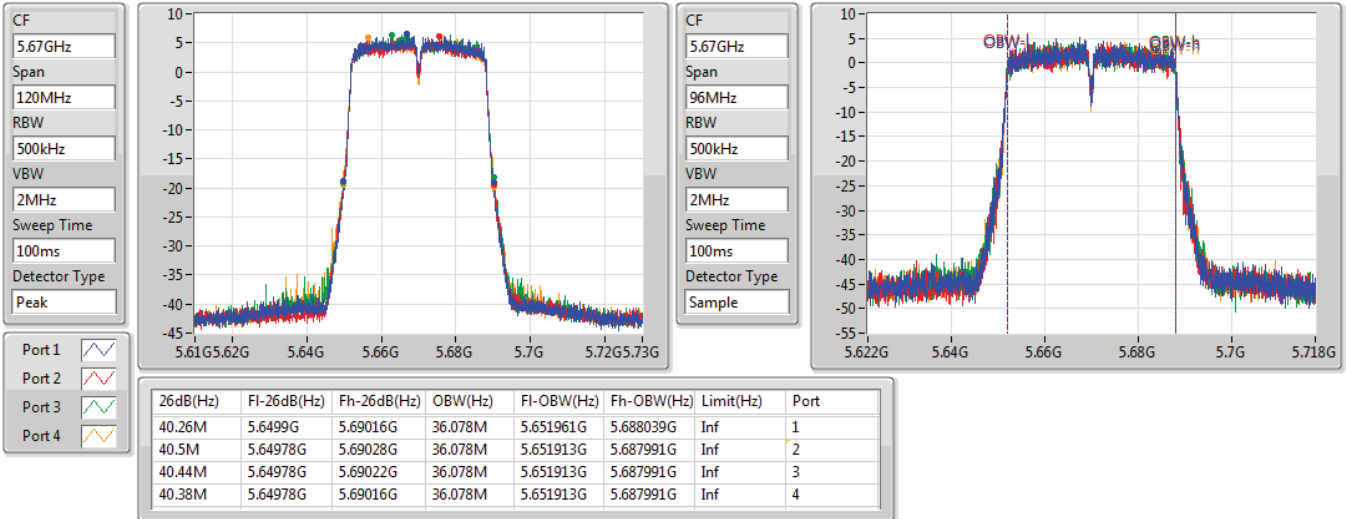
5550MHz

28/04/2020

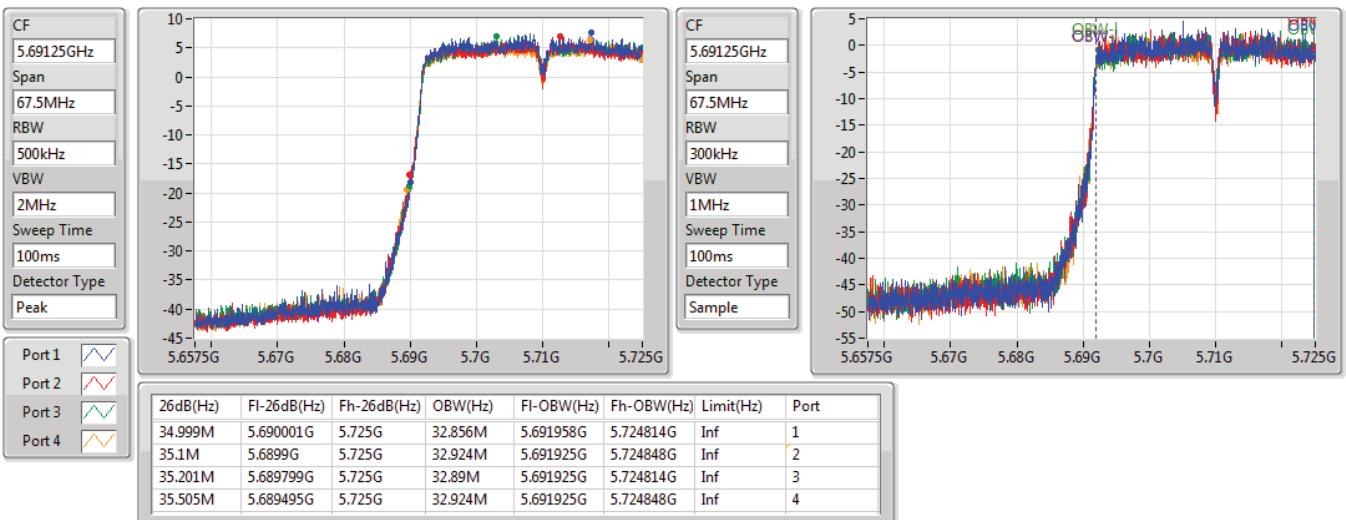


802.11ac VHT40_Nss1,(MCS0)_4TX
EBW
5670MHz

28/04/2020

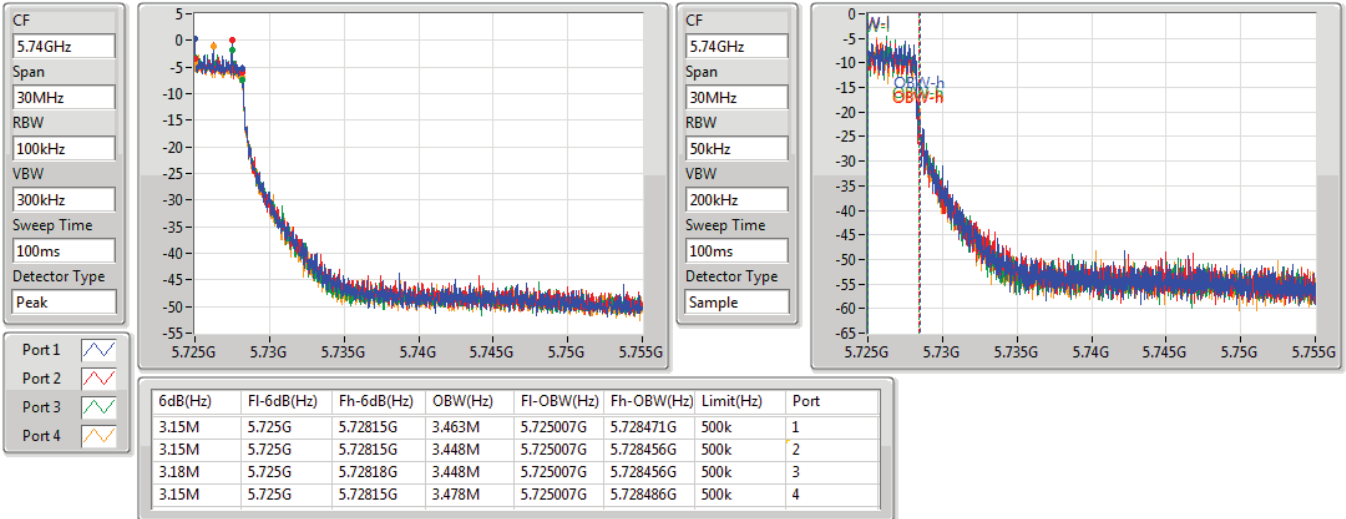

802.11ac VHT40_Nss1,(MCS0)_4TX
EBW
5710MHz Straddle 5.47-5.725GHz

28/04/2020

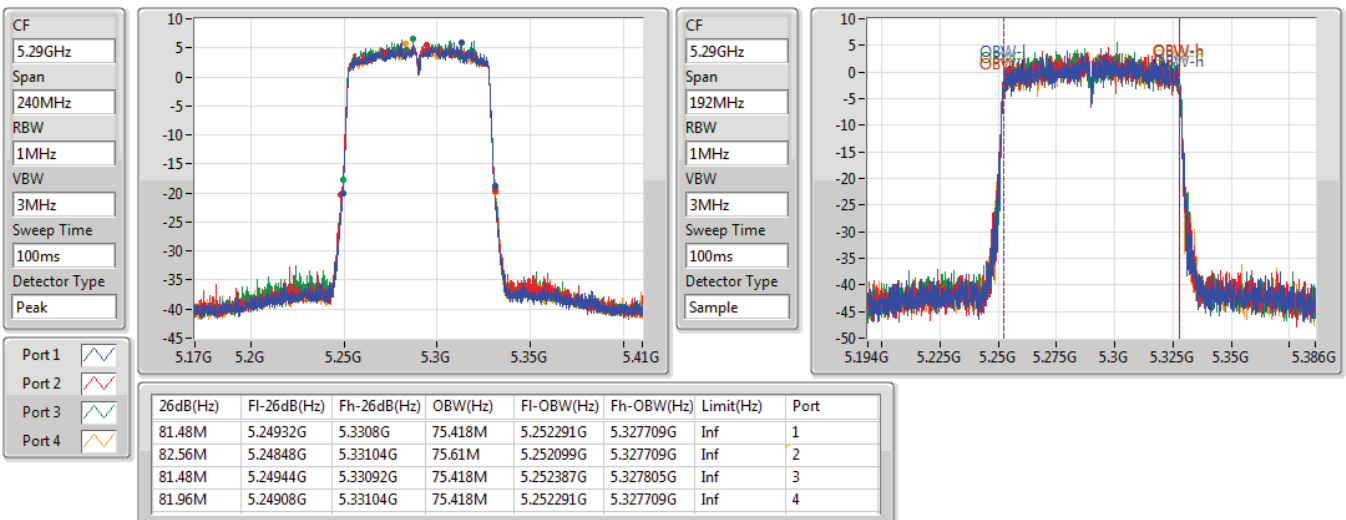


802.11ac VHT40_Nss1,(MCS0)_4TX
EBW
5710MHz Straddle 5.725-5.85GHz

28/04/2020

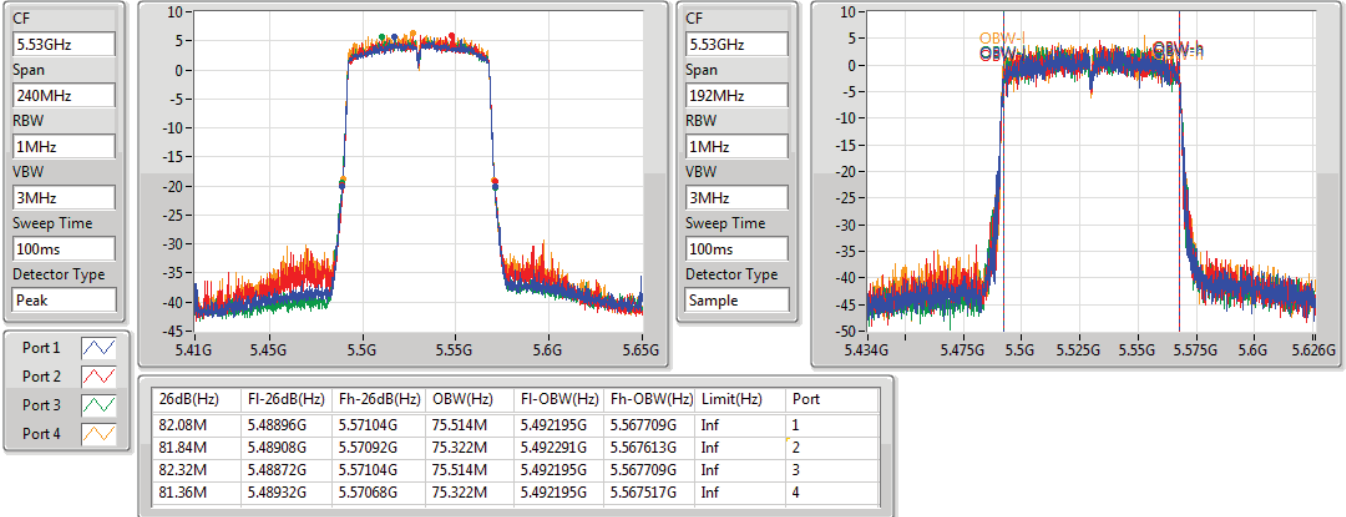

802.11ac VHT80_Nss1,(MCS0)_4TX
EBW
5290MHz

28/04/2020

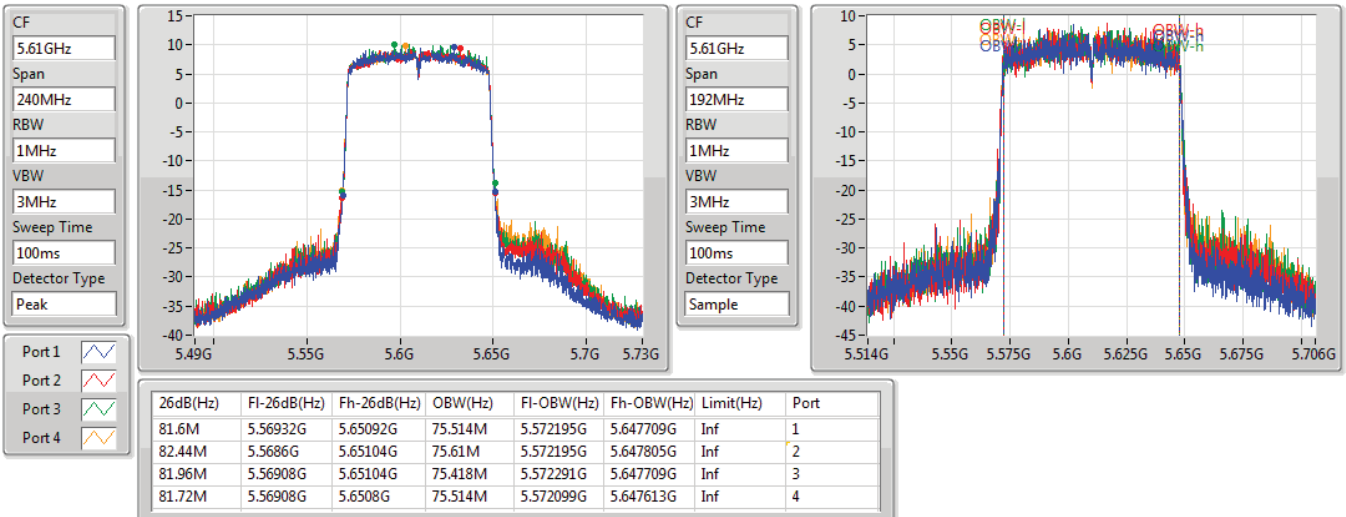


802.11ac VHT80_Nss1,(MCS0)_4TX
EBW
5530MHz

06/05/2020

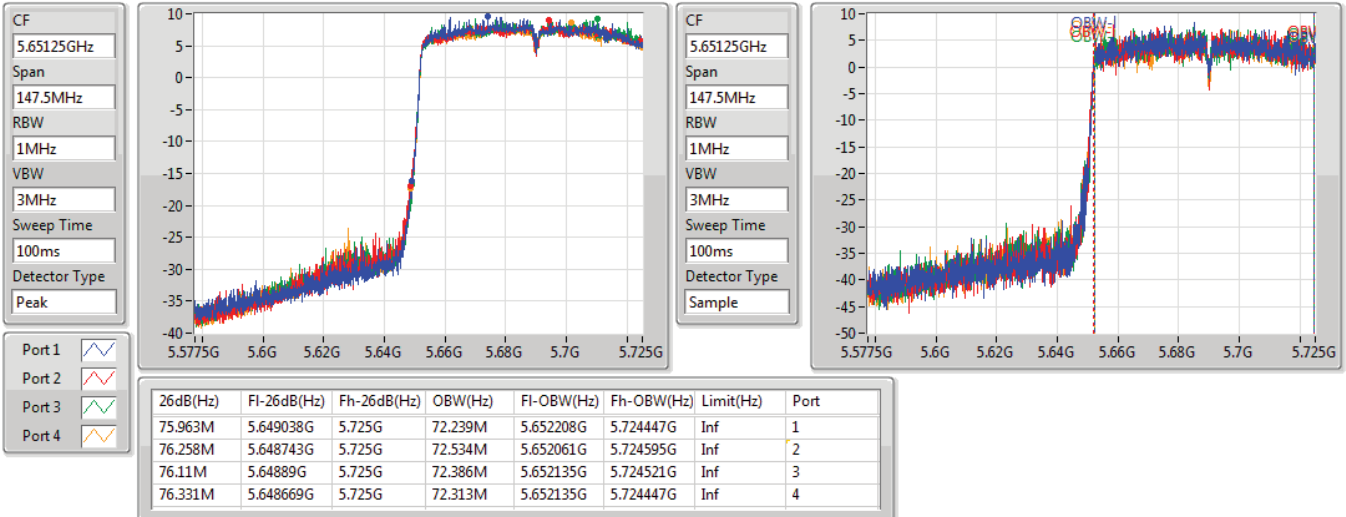

802.11ac VHT80_Nss1,(MCS0)_4TX
EBW
5610MHz

28/04/2020

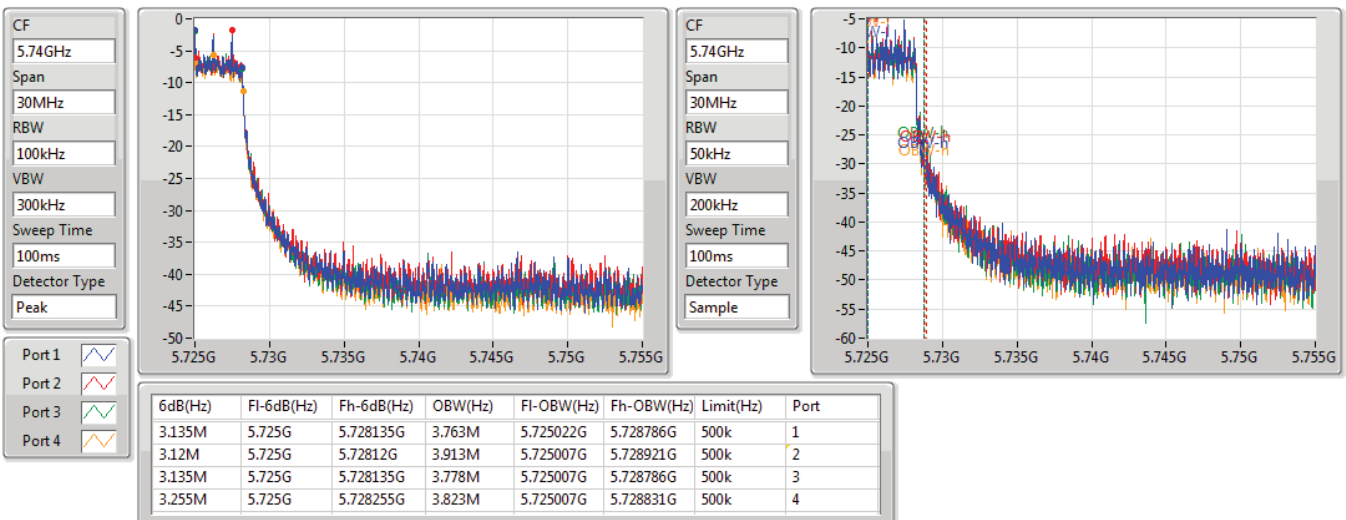


802.11ac VHT80_Nss1,(MCS0)_4TX
EBW
5690MHz Straddle 5.47-5.725GHz

28/04/2020

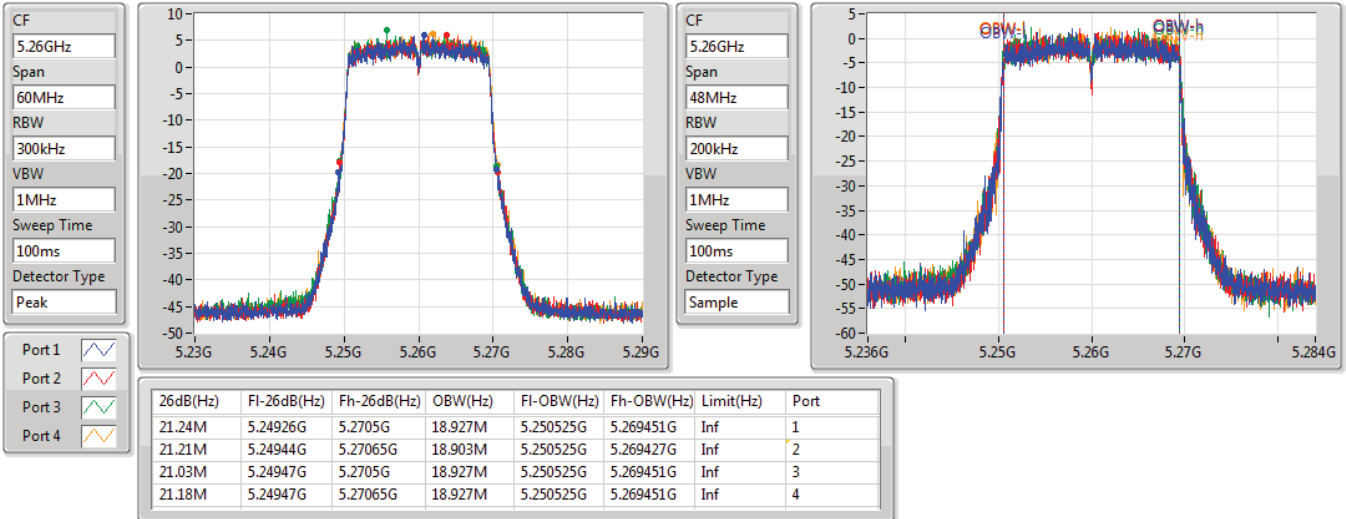

802.11ac VHT80_Nss1,(MCS0)_4TX
EBW
5690MHz Straddle 5.725-5.85GHz

28/04/2020

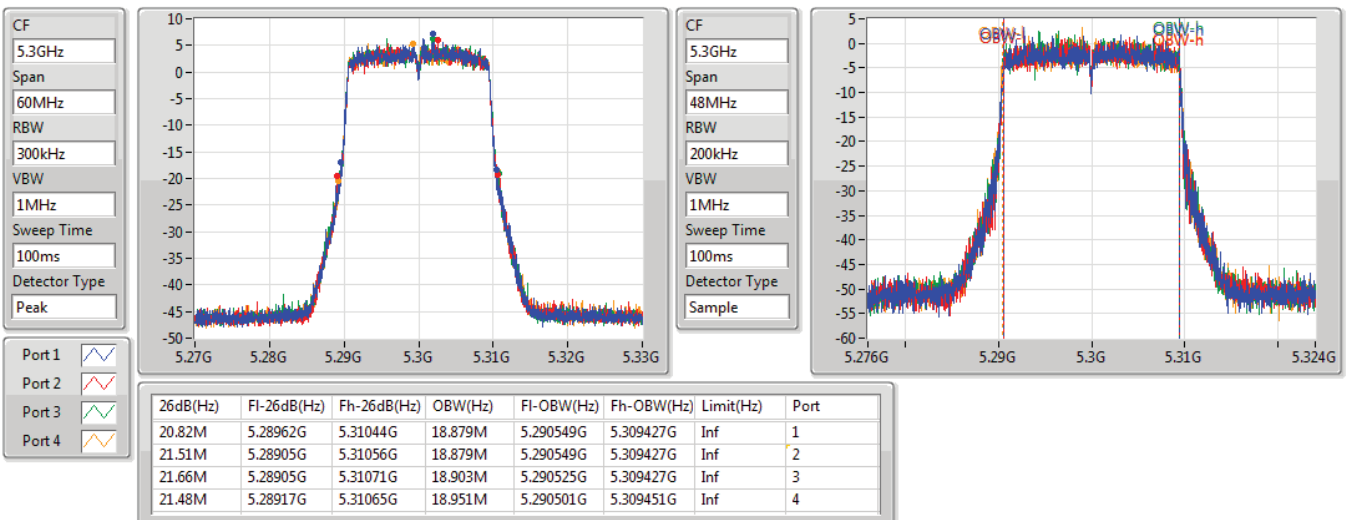


802.11ax HEW20_Nss1,(MCS0)_4TX
EBW
5260MHz

28/04/2020

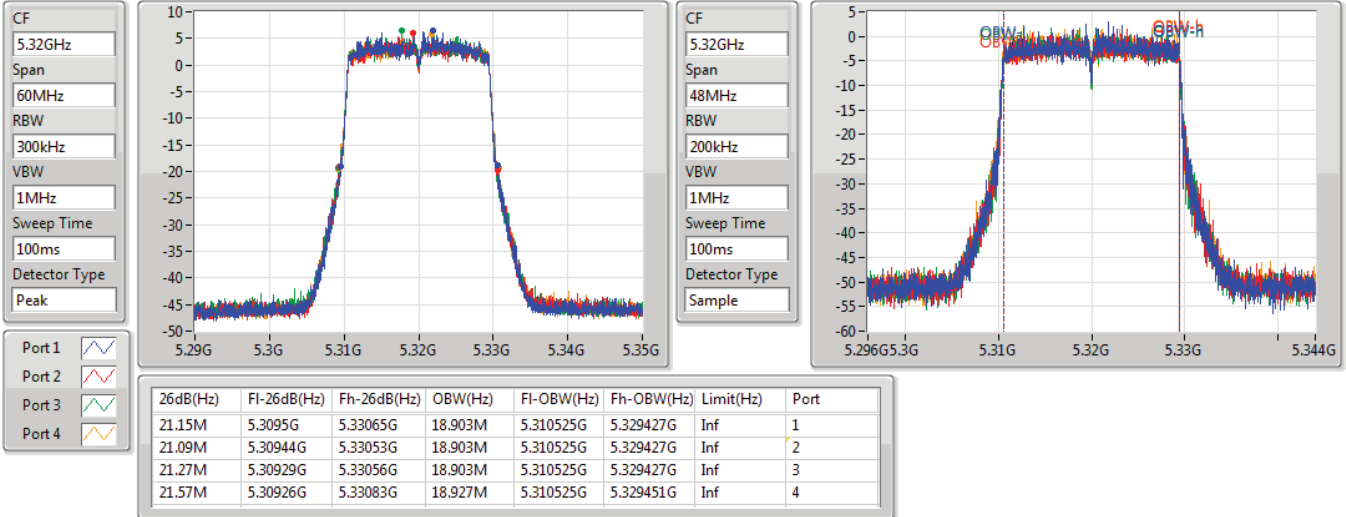

802.11ax HEW20_Nss1,(MCS0)_4TX
EBW
5300MHz

28/04/2020

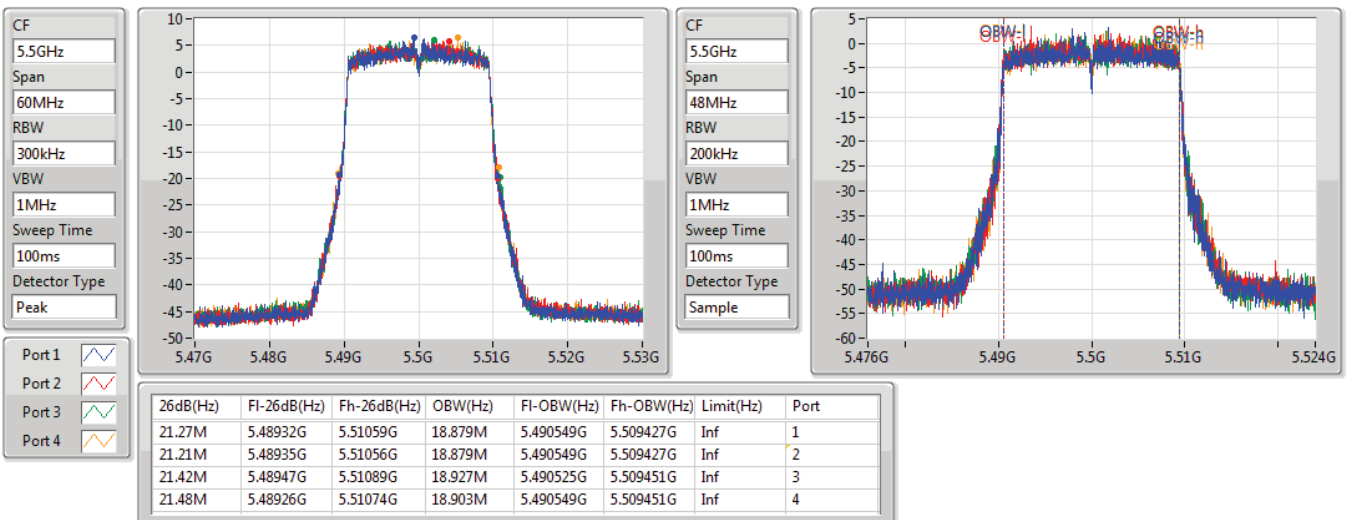


802.11ax HEW20_Nss1,(MCS0)_4TX
EBW
5320MHz

28/04/2020

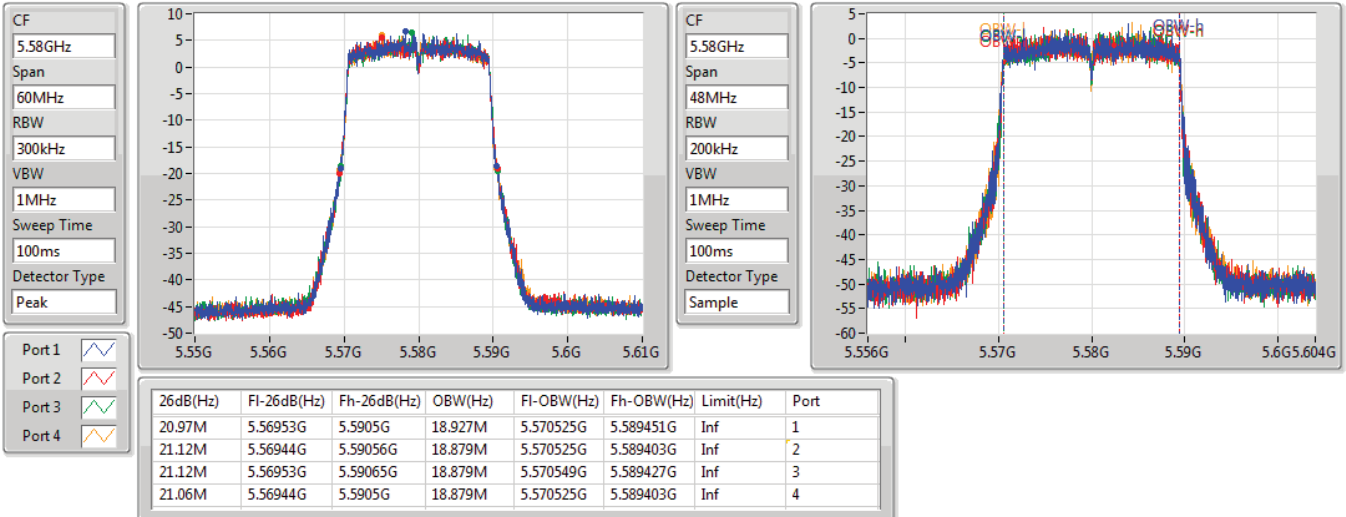

802.11ax HEW20_Nss1,(MCS0)_4TX
EBW
5500MHz

28/04/2020

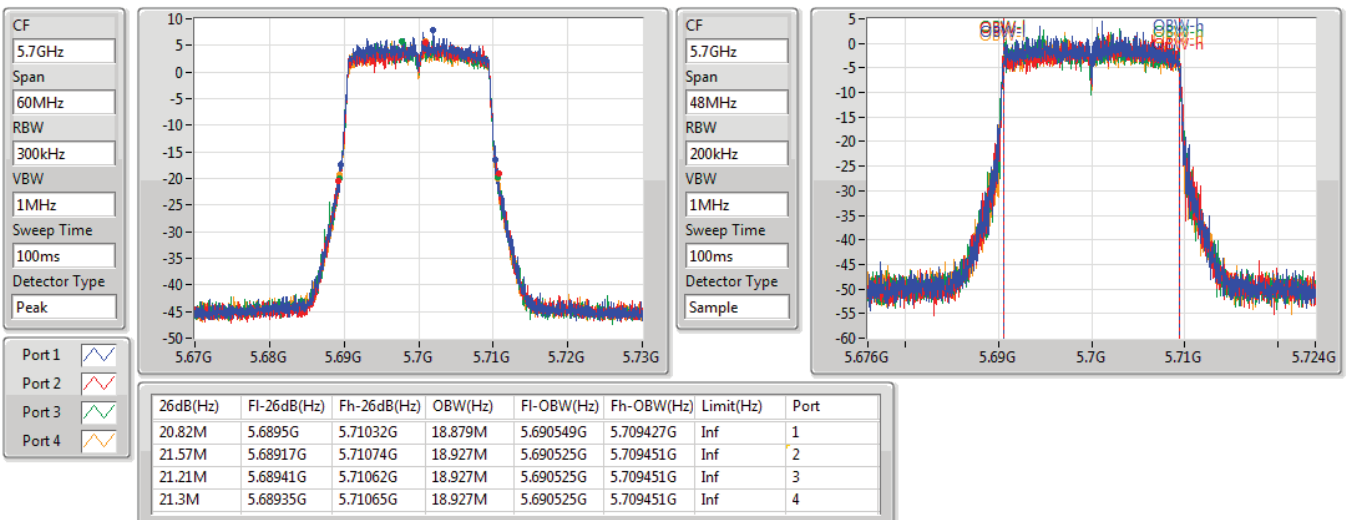


802.11ax HEW20_Nss1,(MCS0)_4TX
EBW
5580MHz

28/04/2020

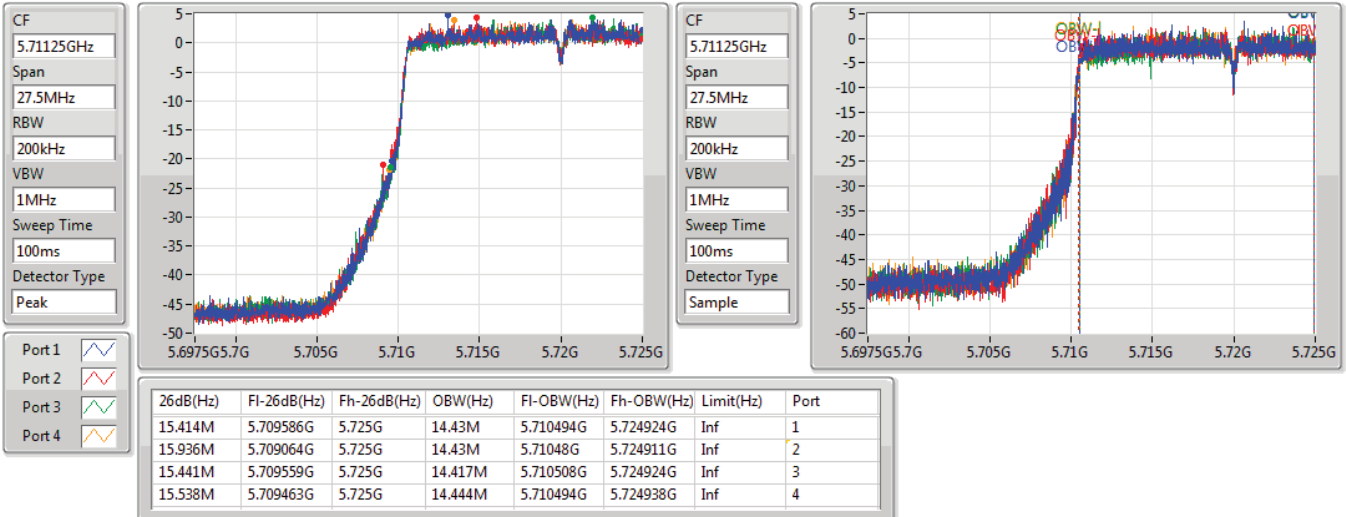

802.11ax HEW20_Nss1,(MCS0)_4TX
EBW
5700MHz

28/04/2020

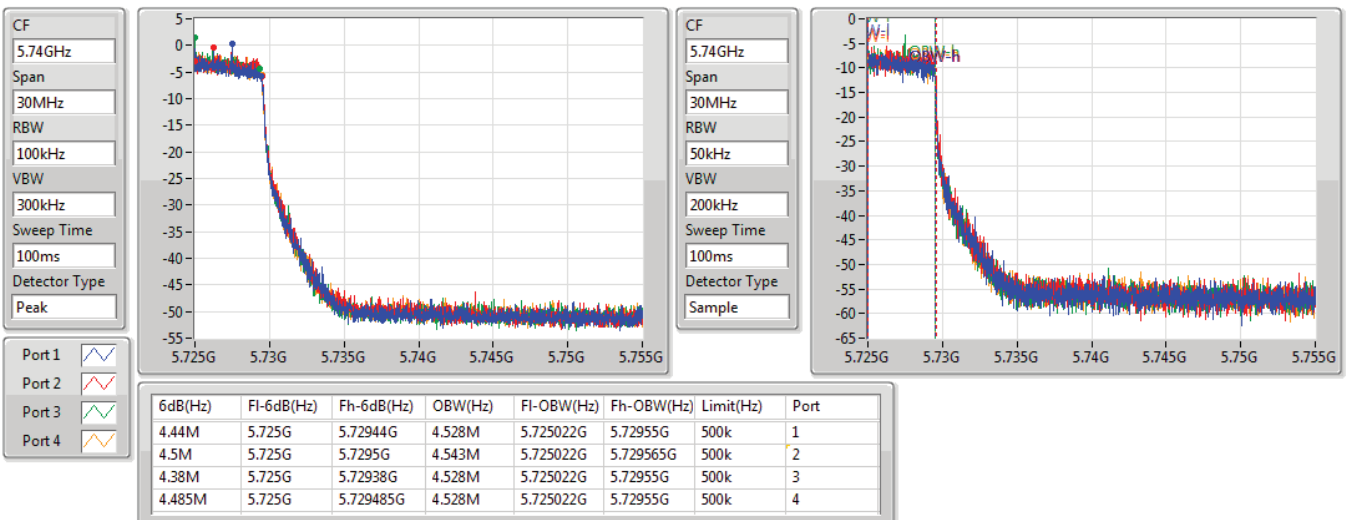


802.11ax HEW20_Nss1,(MCS0)_4TX
EBW
5720MHz Straddle 5.47-5.725GHz

28/04/2020

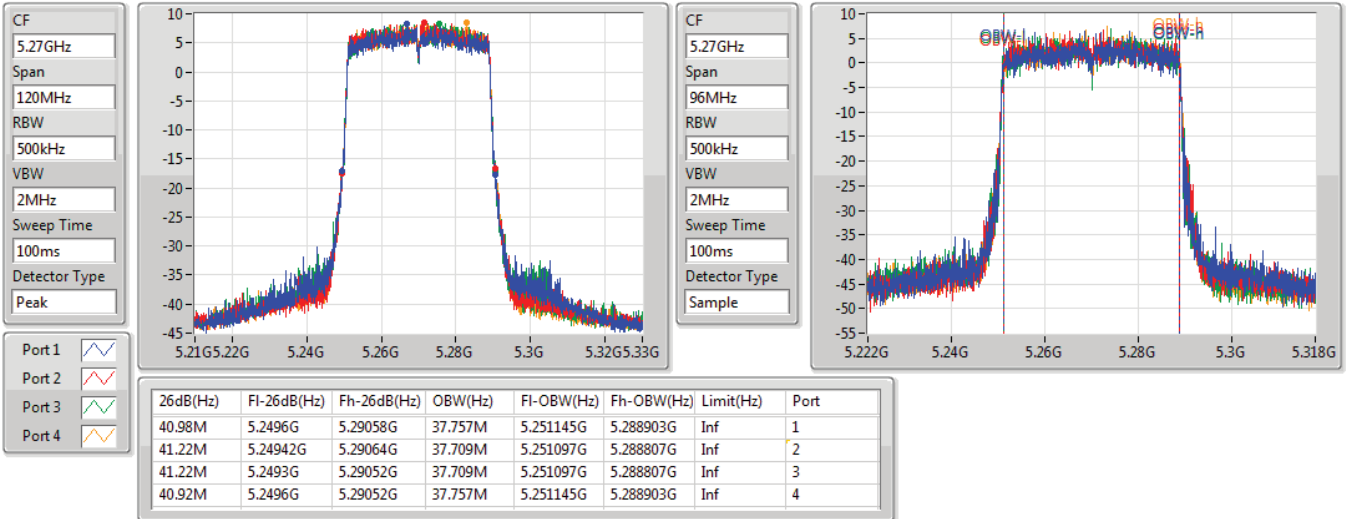

802.11ax HEW20_Nss1,(MCS0)_4TX
EBW
5720MHz Straddle 5.725-5.85GHz

28/04/2020

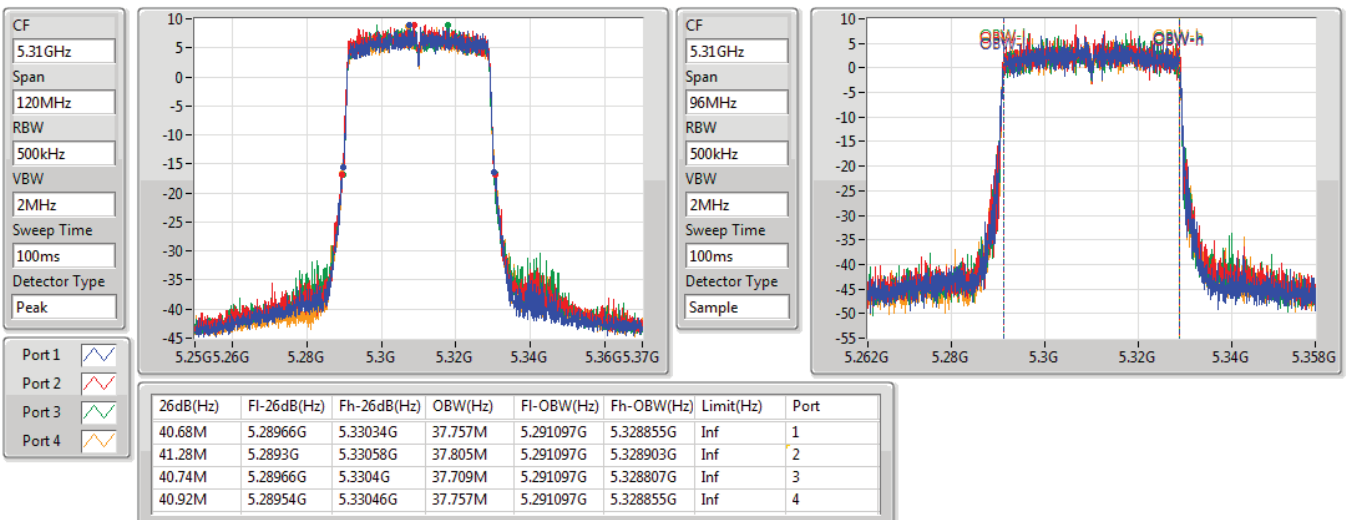


802.11ax HEW40_Nss1,(MCS0)_4TX
EBW
5270MHz

28/04/2020

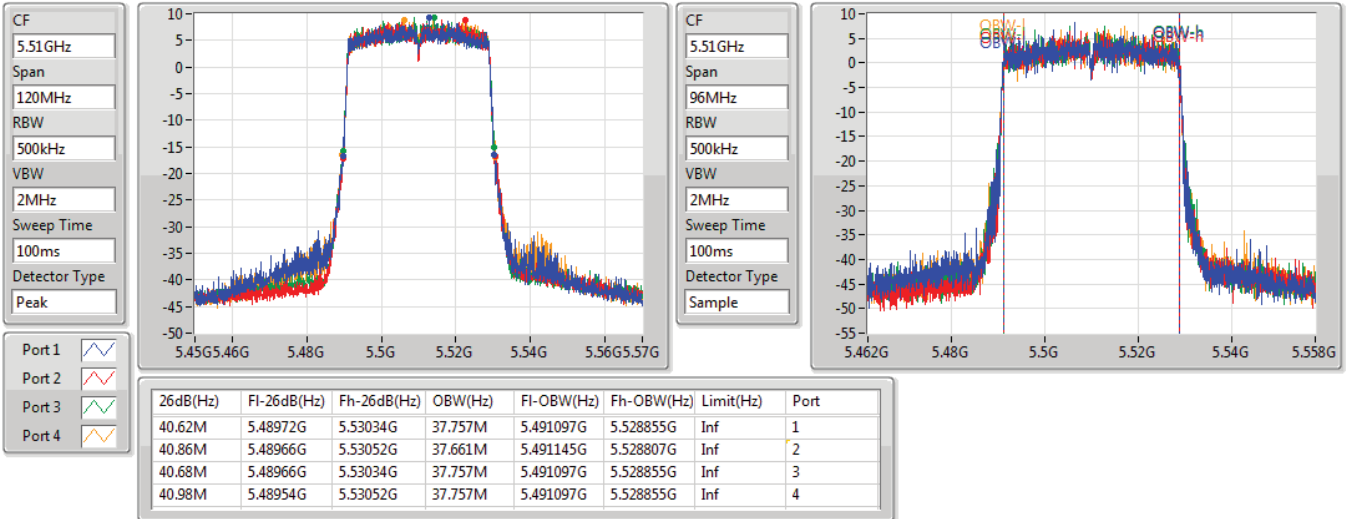

802.11ax HEW40_Nss1,(MCS0)_4TX
EBW
5310MHz

28/04/2020

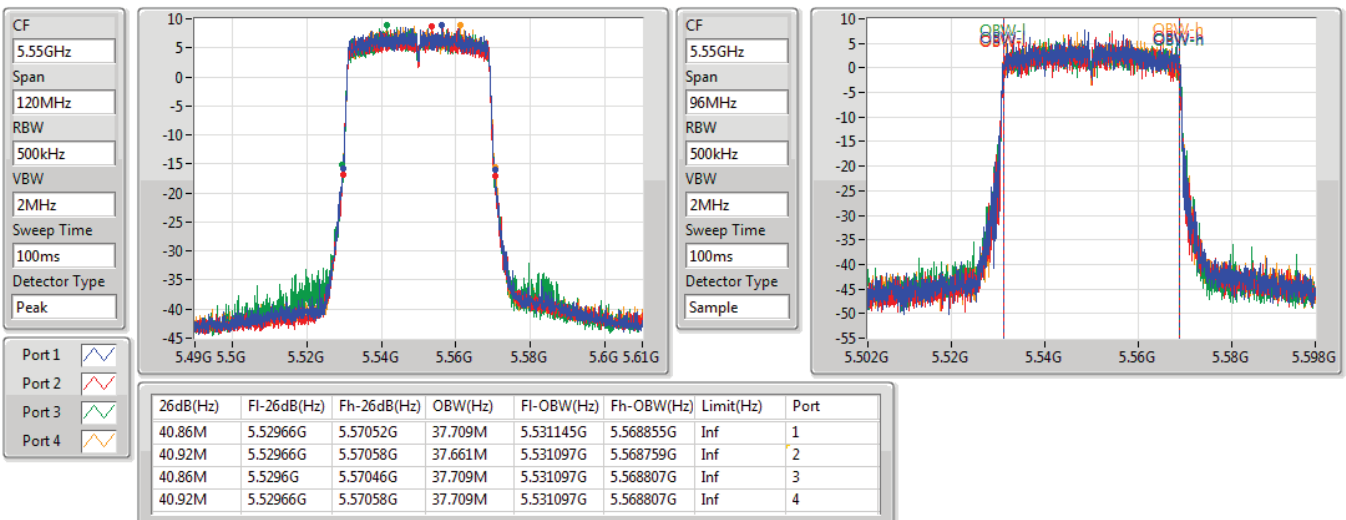


802.11ax HEW40_Nss1,(MCS0)_4TX
EBW
5510MHz

28/04/2020

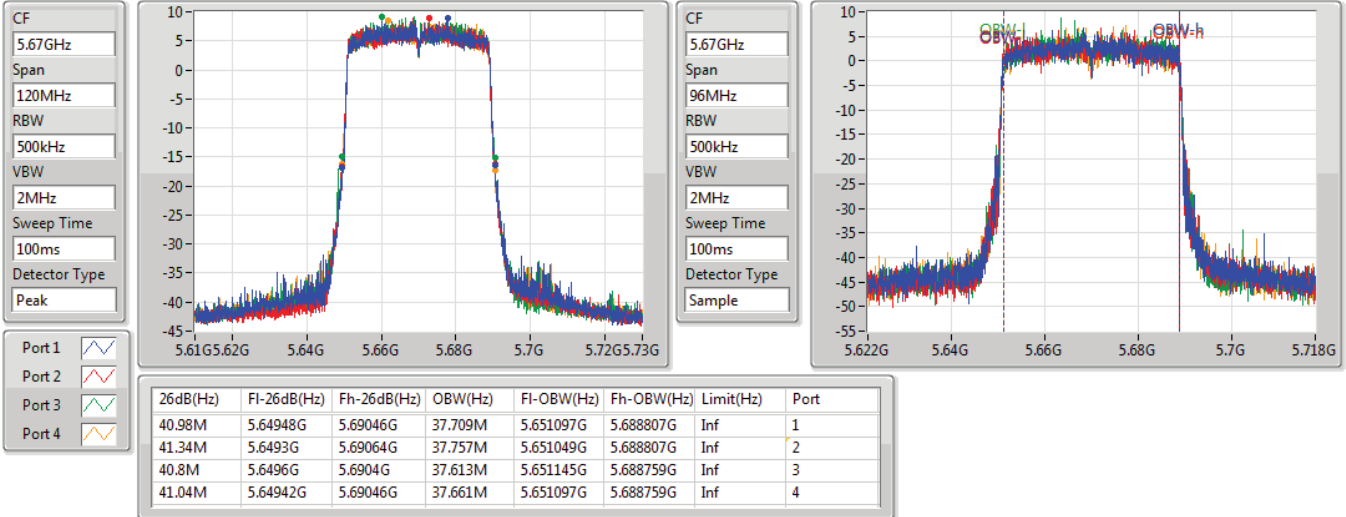

802.11ax HEW40_Nss1,(MCS0)_4TX
EBW
5550MHz

28/04/2020

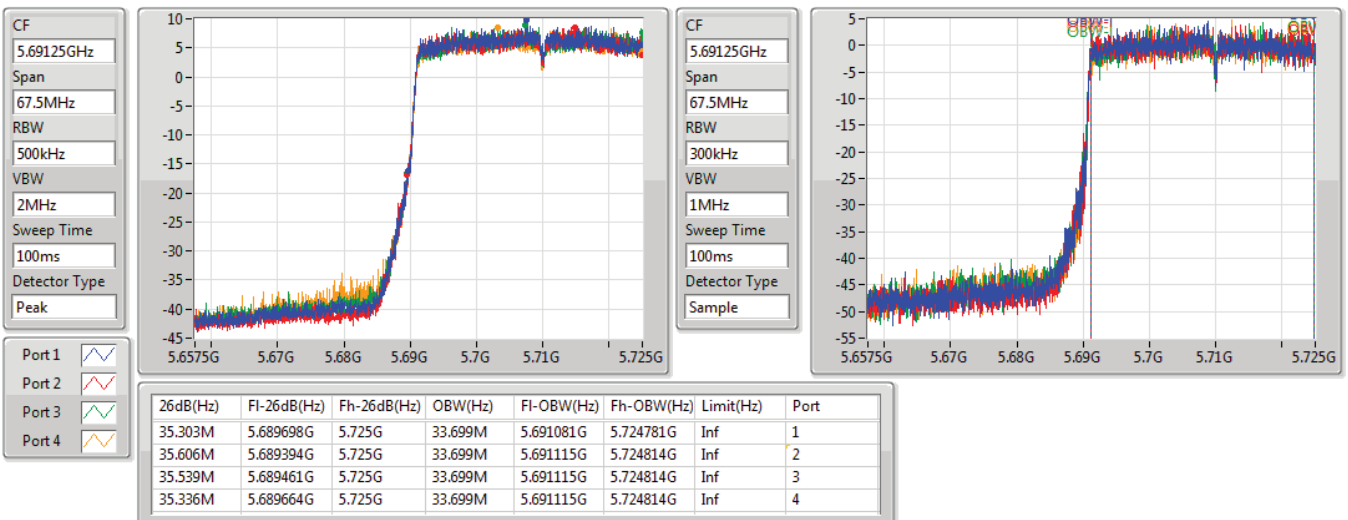


802.11ax HEW40_Nss1,(MCS0)_4TX
EBW
5670MHz

28/04/2020

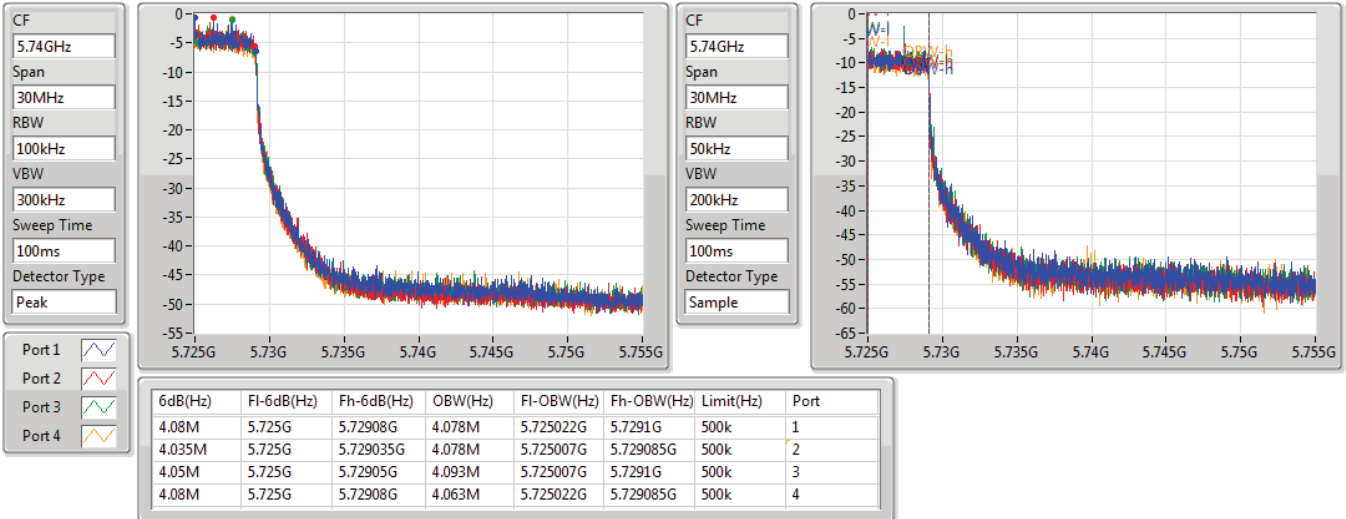

802.11ax HEW40_Nss1,(MCS0)_4TX
EBW
5710MHz Straddle 5.47-5.725GHz

28/04/2020

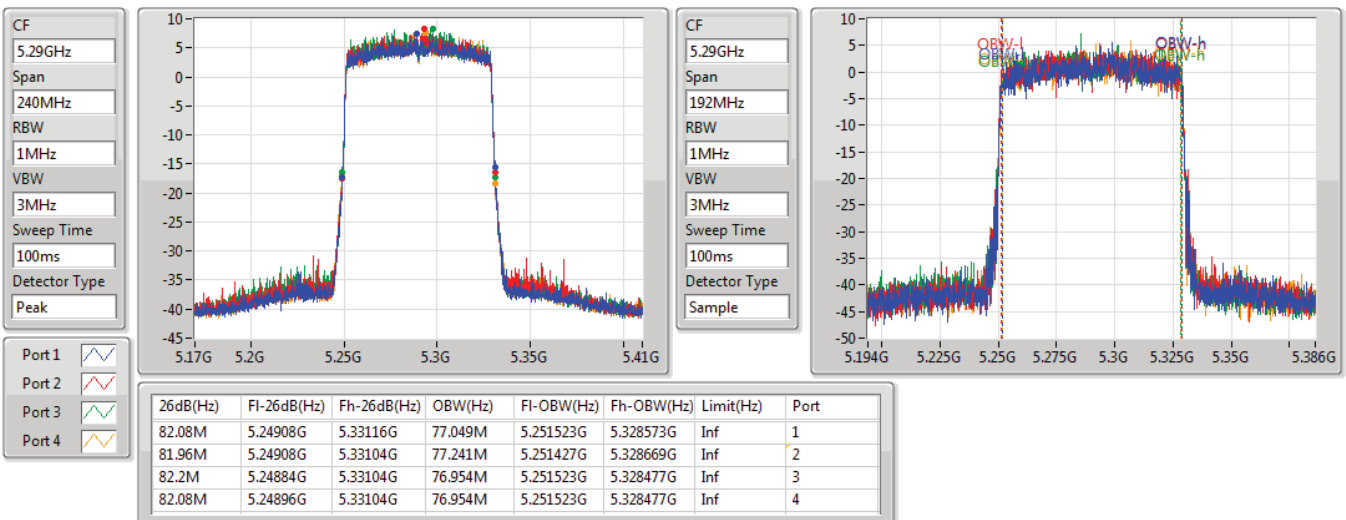


802.11ax HEW40_Nss1,(MCS0)_4TX
EBW
5710MHz Straddle 5.725-5.85GHz

28/04/2020


802.11ax HEW80_Nss1,(MCS0)_4TX
EBW
5290MHz

28/04/2020

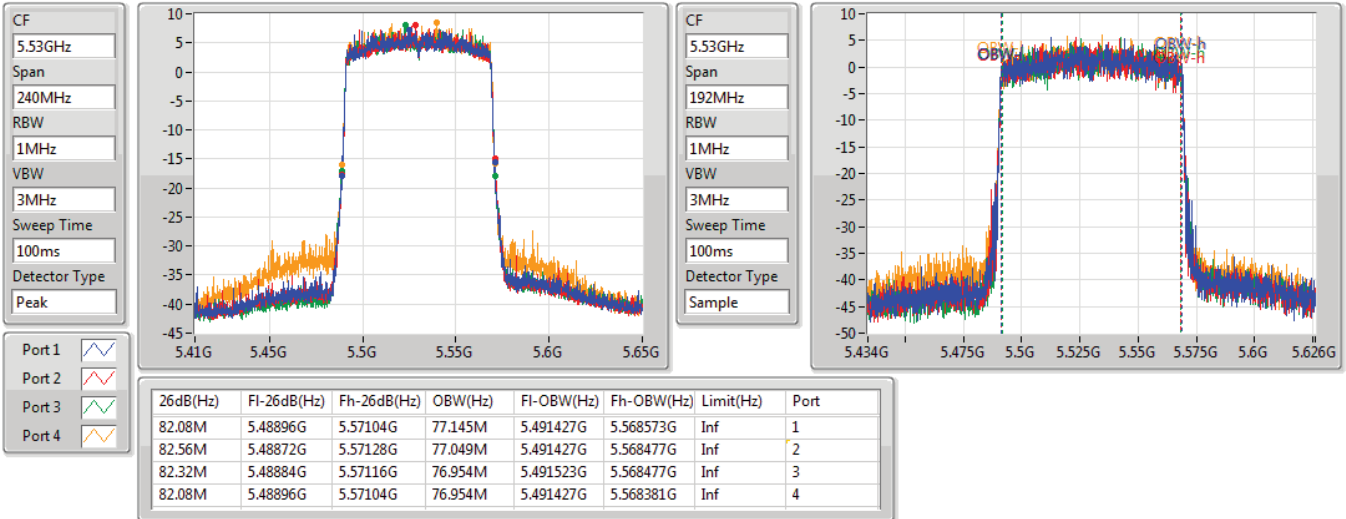


802.11ax HEW80_Nss1,(MCS0)_4TX

EBW

5530MHz

06/05/2020

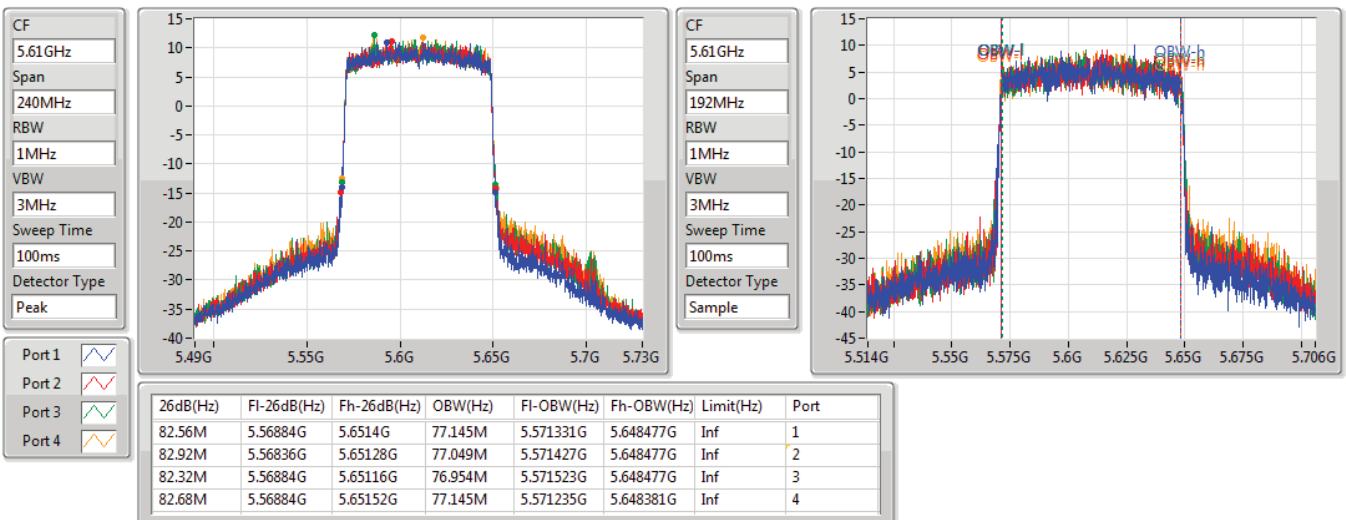


802.11ax HEW80_Nss1,(MCS0)_4TX

EBW

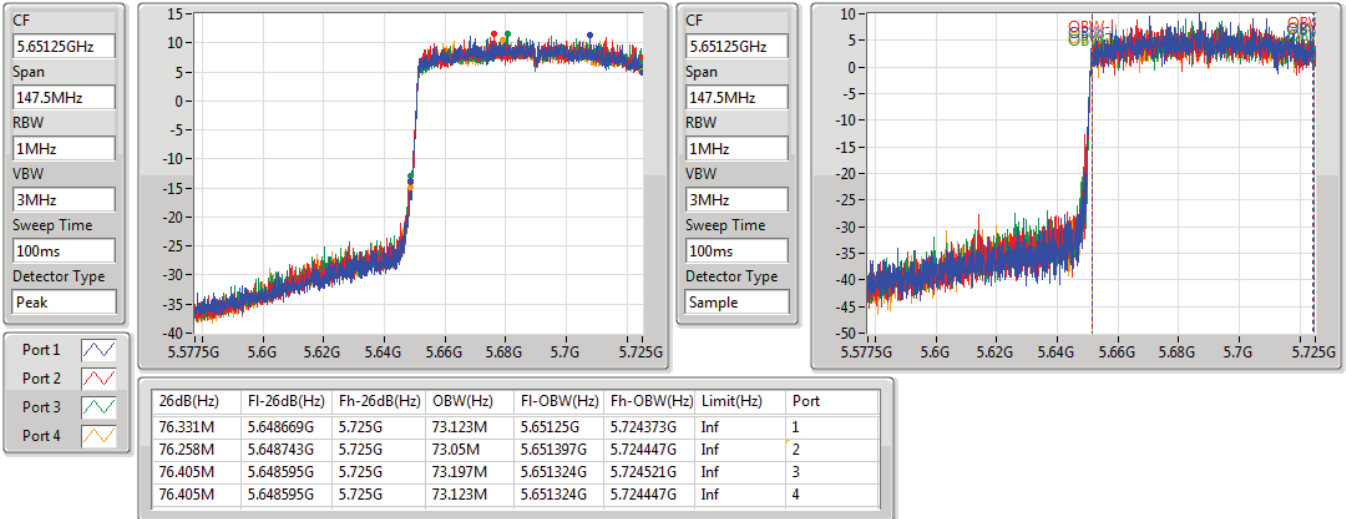
5610MHz

28/04/2020

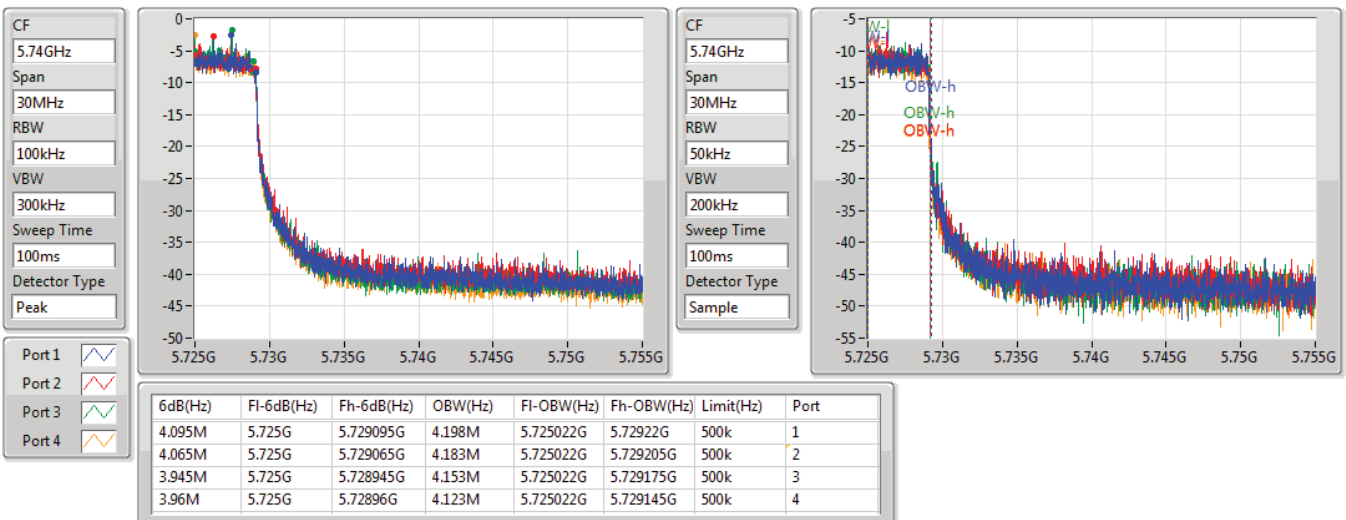


802.11ax HEW80_Nss1,(MCS0)_4TX
EBW
5690MHz Straddle 5.47-5.725GHz

28/04/2020


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

28/04/2020





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	35.85M	18.999M	19M0D1D	34.77M	18.567M
802.11ac VHT20_Nss1,(MCS0)_1TX	38.76M	19.55M	19M5D1D	37.38M	19.07M
802.11ac VHT40_Nss1,(MCS0)_1TX	84.66M	38.621M	38M6D1D	53.28M	36.606M
802.11ac VHT80_Nss1,(MCS0)_1TX	104.64M	76.186M	76M2D1D	104.64M	76.186M
5.47-5.725GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	37.14M	19.31M	19M3D1D	20.666M	14.444M
802.11ac VHT20_Nss1,(MCS0)_1TX	38.25M	19.55M	19M5D1D	21.89M	14.678M
802.11ac VHT40_Nss1,(MCS0)_1TX	77.76M	37.949M	37M9D1D	54.709M	34.678M
802.11ac VHT80_Nss1,(MCS0)_1TX	141.24M	77.433M	77M4D1D	106.08M	73.787M
5.725-5.85GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	3.18M	7.916M	7M92D1D	3.18M	7.916M
802.11ac VHT20_Nss1,(MCS0)_1TX	3.765M	7.616M	7M62D1D	3.765M	7.616M
802.11ac VHT40_Nss1,(MCS0)_1TX	3.135M	18.411M	18M4D1D	3.135M	18.411M
802.11ac VHT80_Nss1,(MCS0)_1TX	3.24M	23.973M	24M0D1D	3.24M	23.973M

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

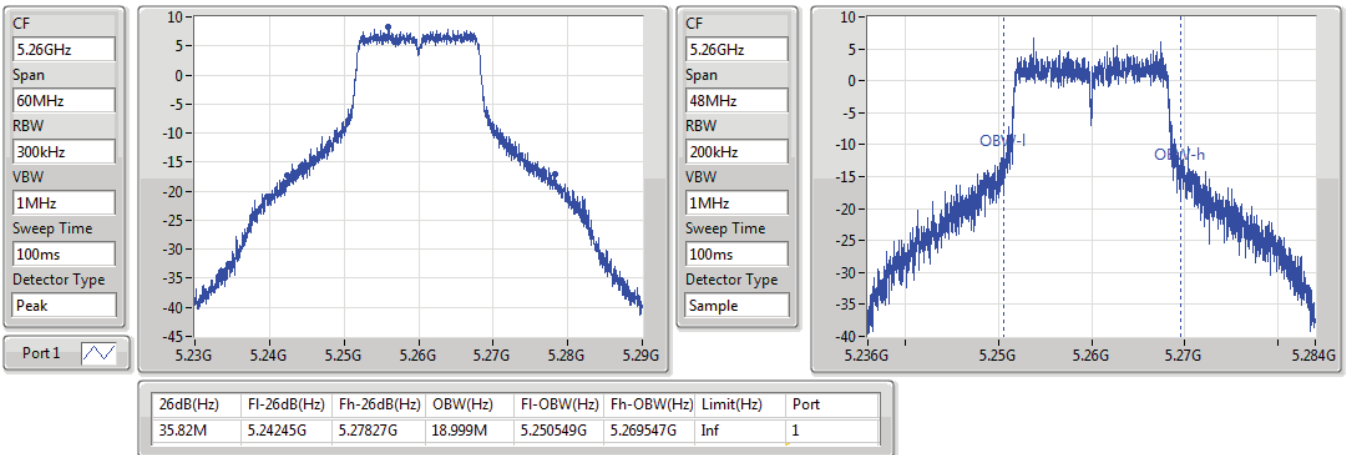
Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
802.11a_Nss1,(6Mbps)_1TX	-	-	-	-
5260MHz	Pass	Inf	35.82M	18.999M
5300MHz	Pass	Inf	34.77M	18.879M
5320MHz	Pass	Inf	35.85M	18.567M
5500MHz	Pass	Inf	36.06M	18.447M
5580MHz	Pass	Inf	37.14M	19.31M
5700MHz	Pass	Inf	34.29M	18.063M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	20.666M	14.444M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	3.18M	7.916M
802.11ac VHT20_Nss1,(MCS0)_1TX	-	-	-	-
5260MHz	Pass	Inf	38.76M	19.55M
5300MHz	Pass	Inf	38.01M	19.43M
5320MHz	Pass	Inf	37.38M	19.07M
5500MHz	Pass	Inf	35.31M	18.975M
5580MHz	Pass	Inf	38.25M	19.55M
5700MHz	Pass	Inf	33.57M	18.783M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	21.89M	14.678M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	3.765M	7.616M
802.11ac VHT40_Nss1,(MCS0)_1TX	-	-	-	-
5270MHz	Pass	Inf	84.66M	38.621M
5310MHz	Pass	Inf	53.28M	36.606M
5510MHz	Pass	Inf	57.96M	36.654M
5550MHz	Pass	Inf	77.76M	37.661M
5670MHz	Pass	Inf	73.02M	37.949M
5710MHz Straddle 5.47-5.725GHz	Pass	Inf	54.709M	34.678M
5710MHz Straddle 5.725-5.85GHz	Pass	500k	3.135M	18.411M
802.11ac VHT80_Nss1,(MCS0)_1TX	-	-	-	-
5290MHz	Pass	Inf	104.64M	76.186M
5530MHz	Pass	Inf	106.08M	76.57M
5610MHz	Pass	Inf	141.24M	77.433M
5690MHz Straddle 5.47-5.725GHz	Pass	Inf	114.755M	73.787M
5690MHz Straddle 5.725-5.85GHz	Pass	500k	3.24M	23.973M

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

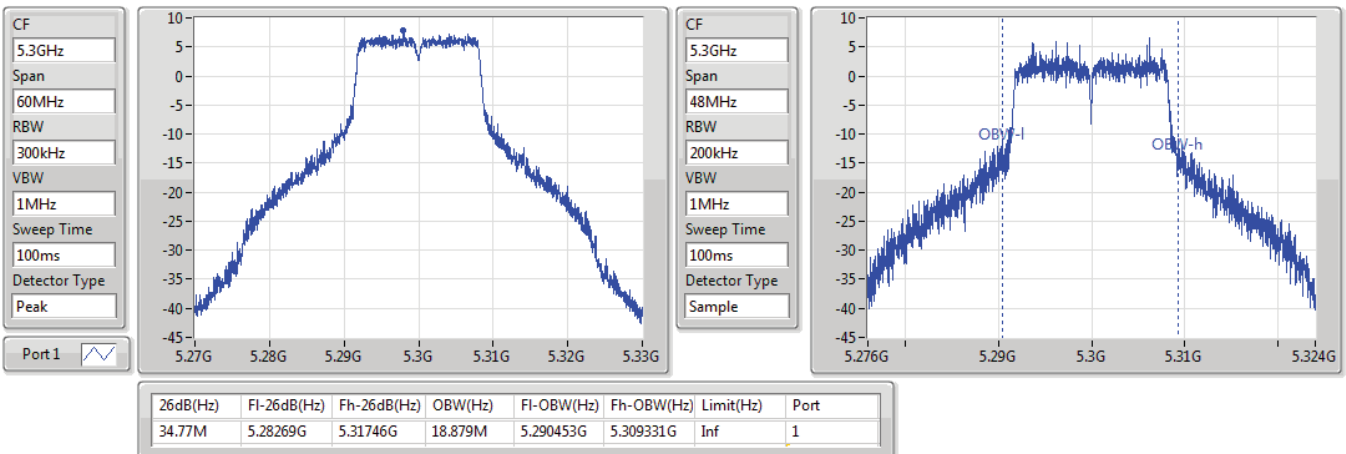
Port X-OBW = Port X 99% occupied bandwidth;

802.11a_Nss1,(6Mbps)_1TX
EBW
5260MHz

13/05/2020

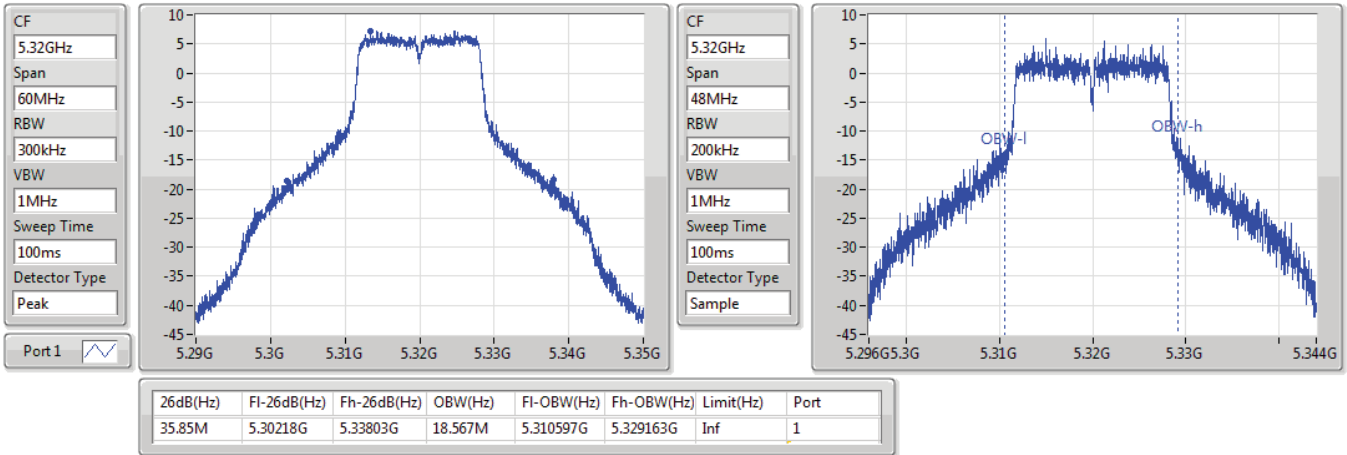

802.11a_Nss1,(6Mbps)_1TX
EBW
5300MHz

13/05/2020

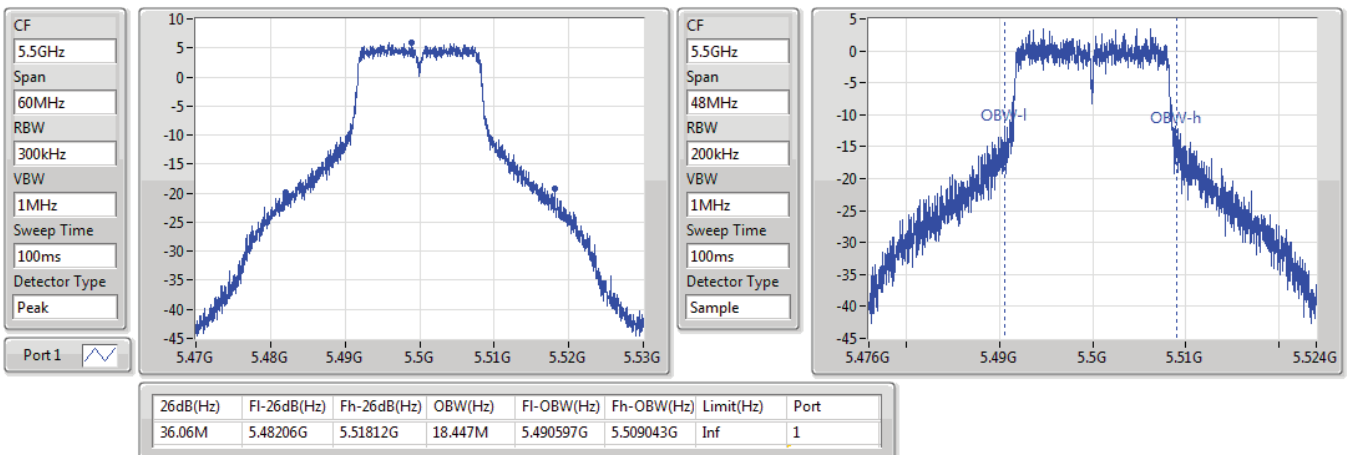


802.11a_Nss1,(6Mbps)_1TX
EBW
5320MHz

13/05/2020

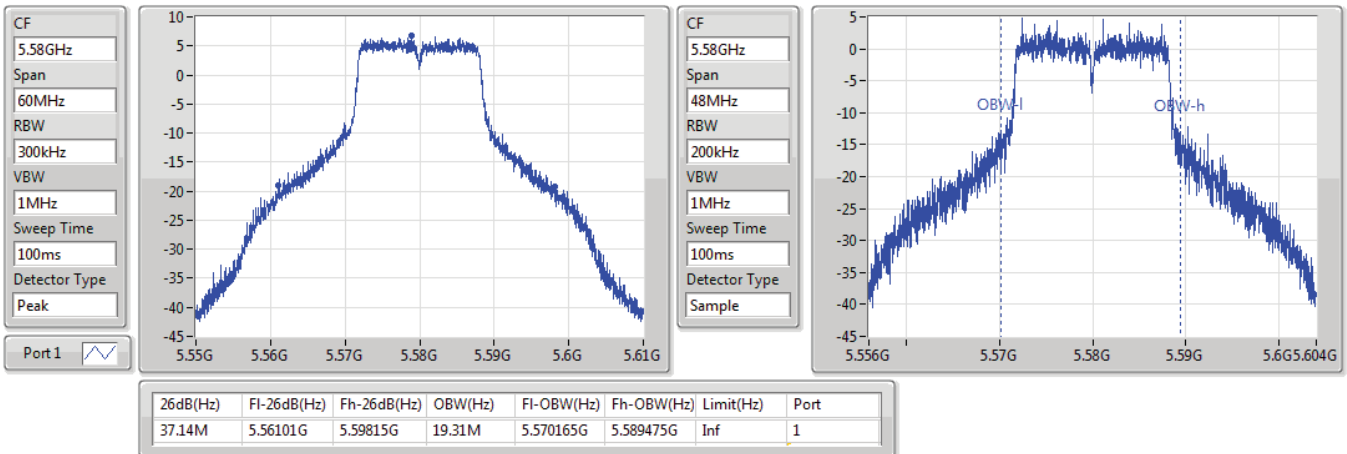

802.11a_Nss1,(6Mbps)_1TX
EBW
5500MHz

13/05/2020

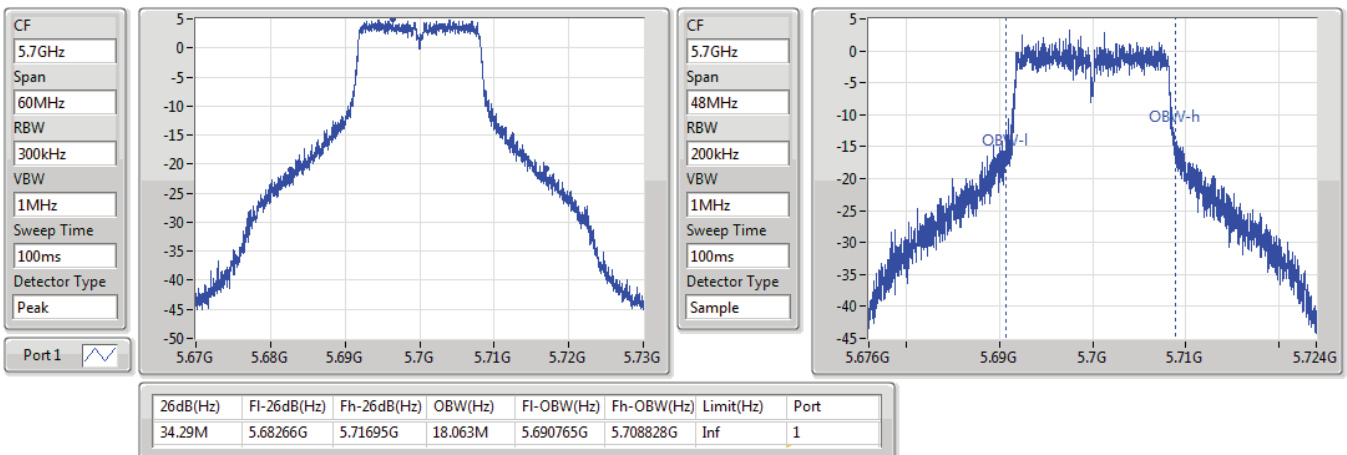


802.11a_Nss1,(6Mbps)_1TX
EBW
5580MHz

13/05/2020

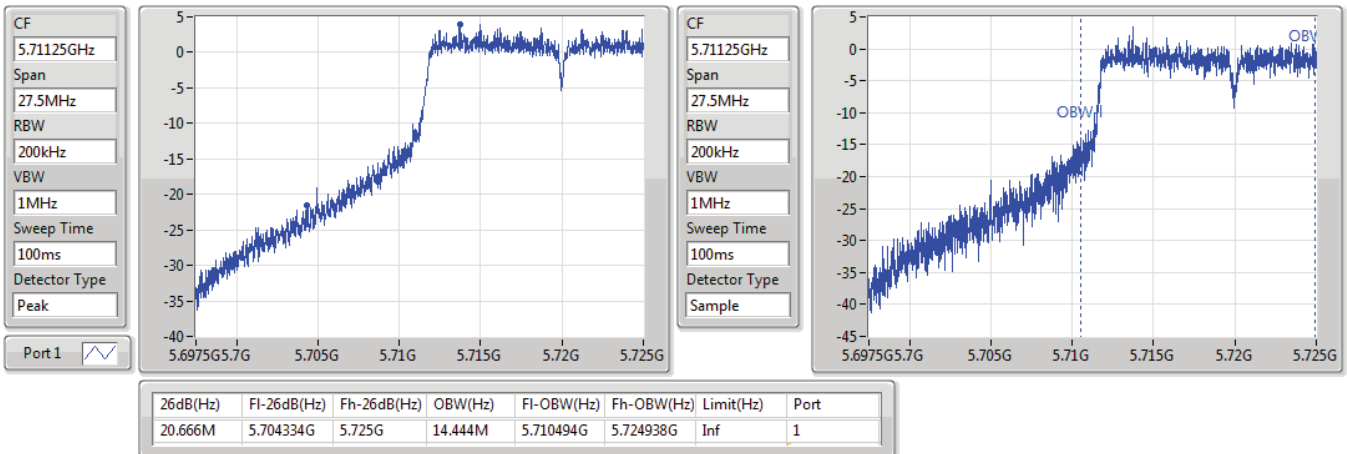

802.11a_Nss1,(6Mbps)_1TX
EBW
5700MHz

13/05/2020

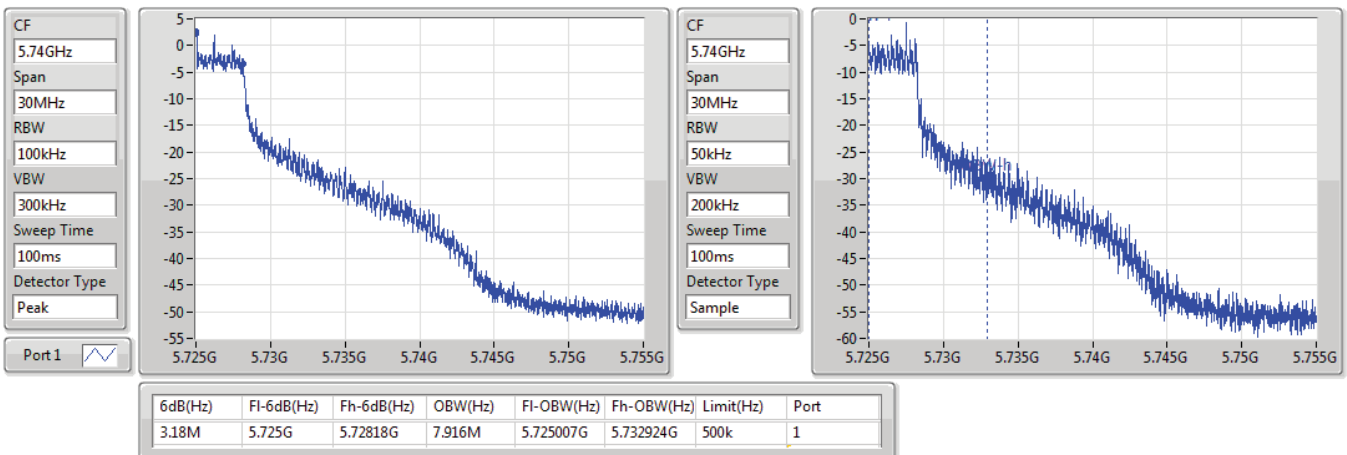


802.11a_Nss1,(6Mbps)_1TX
EBW
5720MHz Straddle 5.47-5.725GHz

13/05/2020

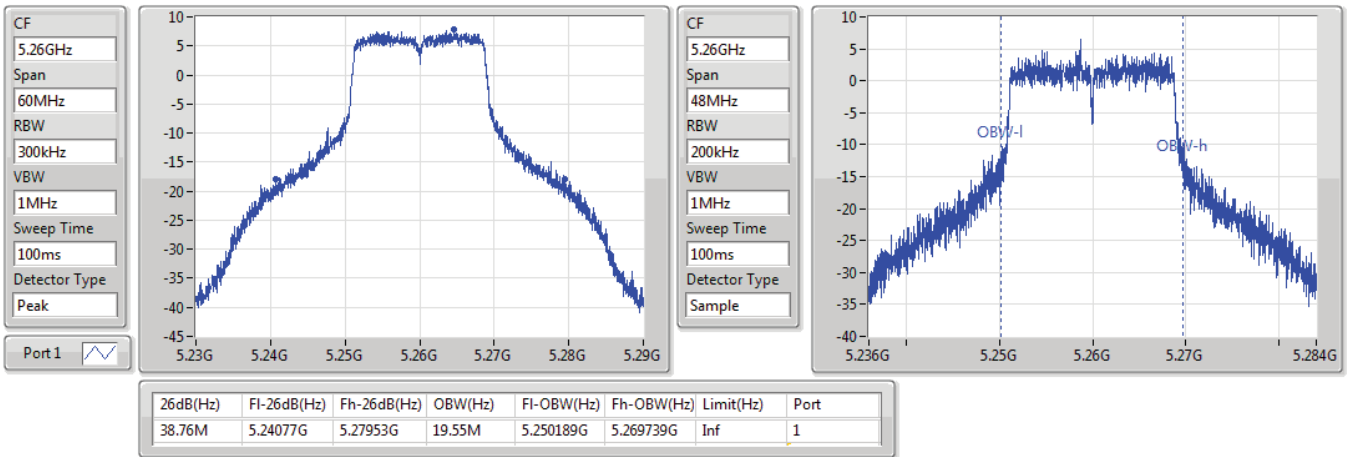

802.11a_Nss1,(6Mbps)_1TX
EBW
5720MHz Straddle 5.725-5.85GHz

18/04/2020

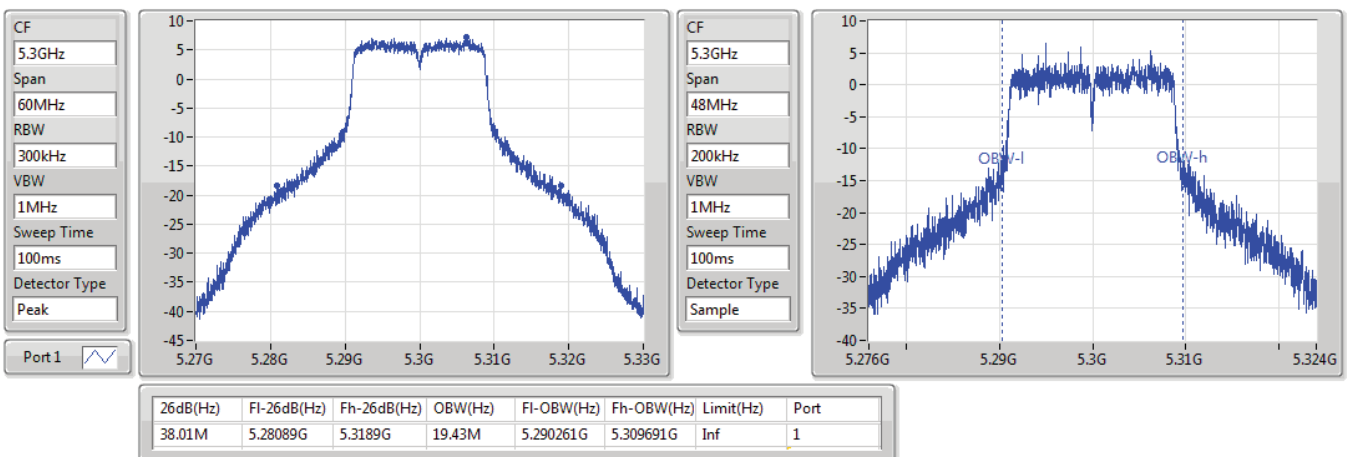


802.11ac VHT20_Nss1,(MCS0)_1TX
EBW
5260MHz

13/05/2020

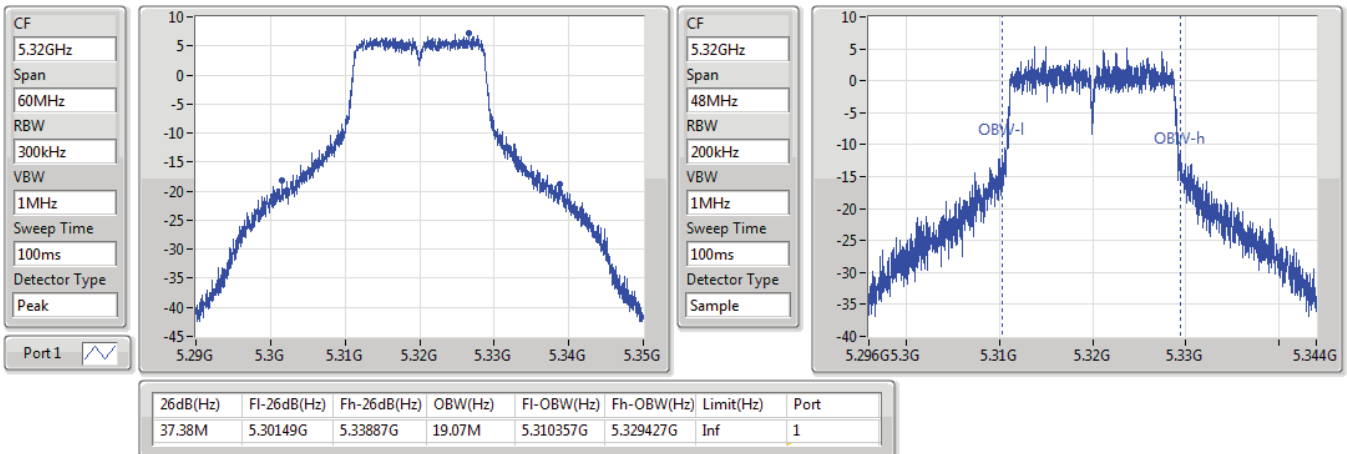

802.11ac VHT20_Nss1,(MCS0)_1TX
EBW
5300MHz

13/05/2020

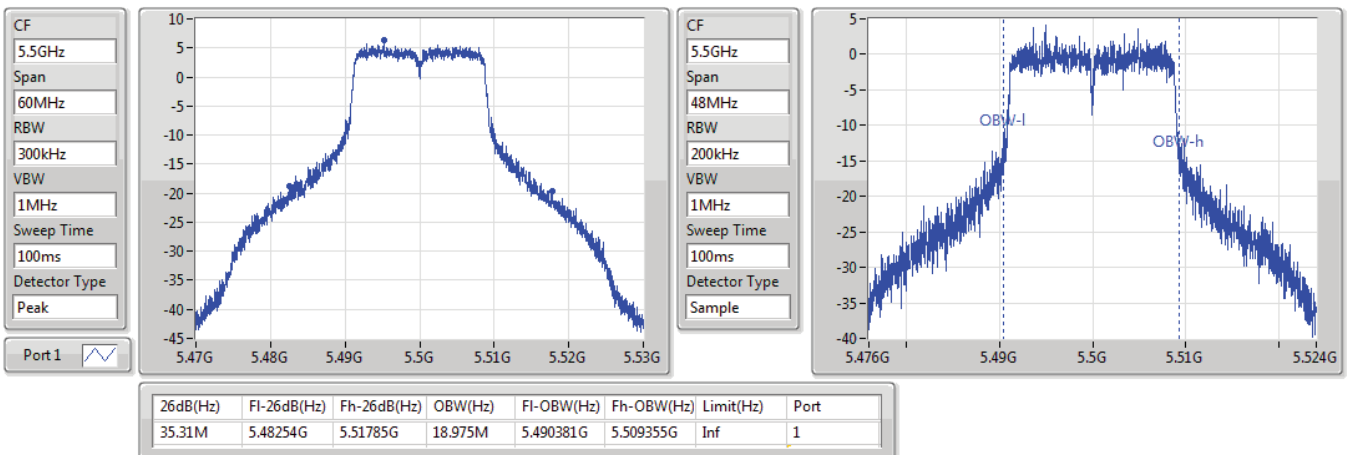


802.11ac VHT20_Nss1,(MCS0)_1TX
EBW
5320MHz

13/05/2020

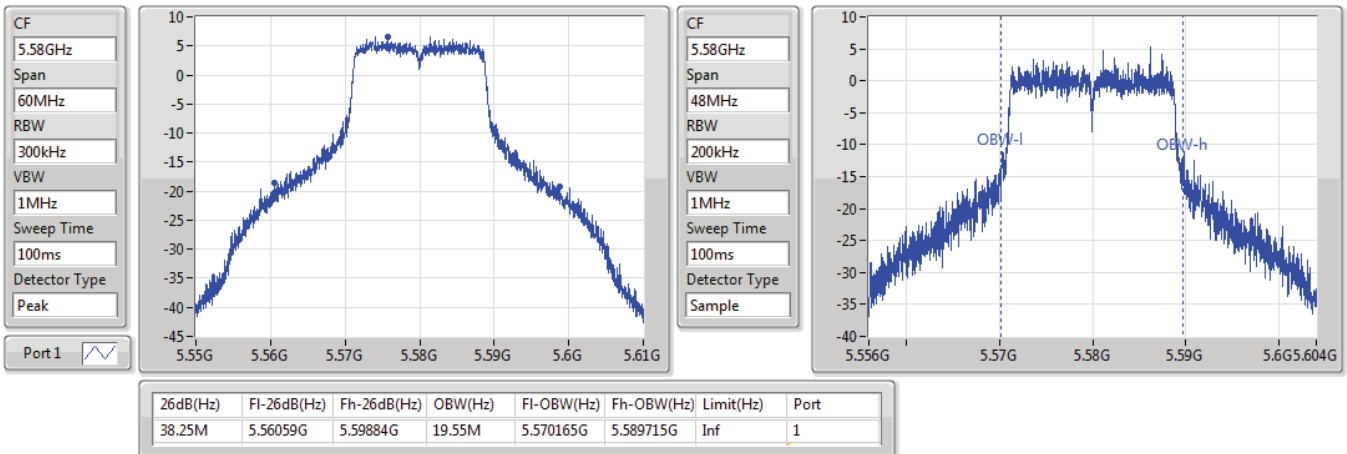

802.11ac VHT20_Nss1,(MCS0)_1TX
EBW
5500MHz

13/05/2020

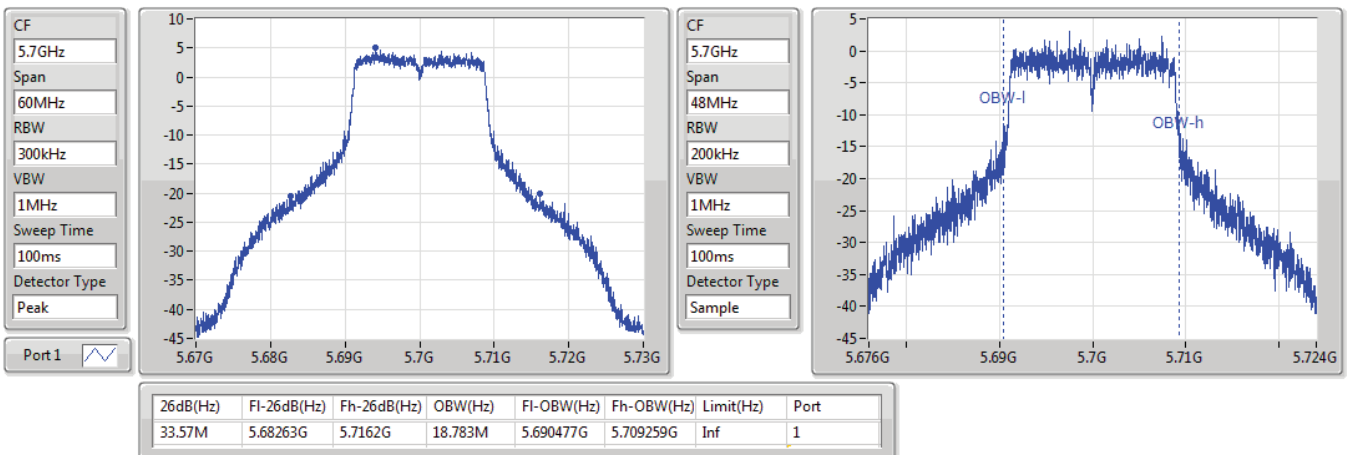


802.11ac VHT20_Nss1,(MCS0)_1TX
EBW
5580MHz

13/05/2020

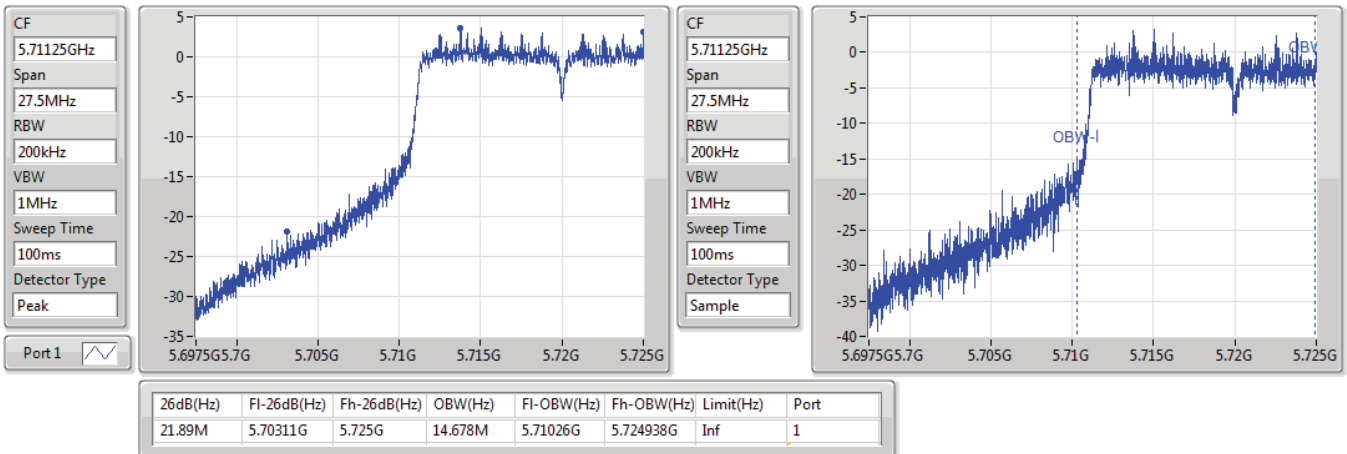

802.11ac VHT20_Nss1,(MCS0)_1TX
EBW
5700MHz

18/04/2020

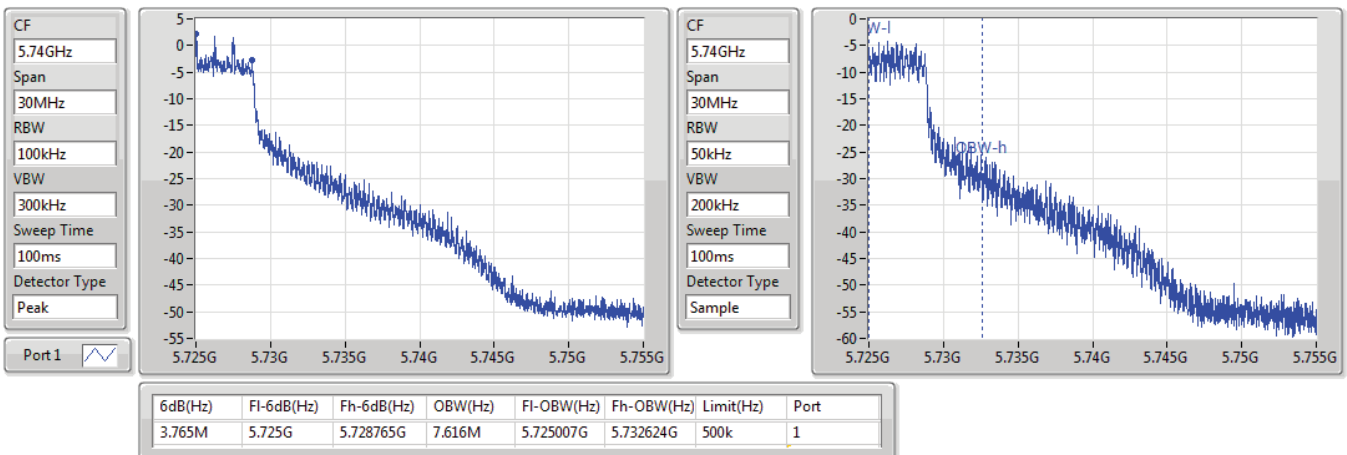


802.11ac VHT20_Nss1,(MCS0)_1TX
EBW
5720MHz Straddle 5.47-5.725GHz

18/04/2020


802.11ac VHT20_Nss1,(MCS0)_1TX
EBW
5720MHz Straddle 5.725-5.85GHz

18/04/2020

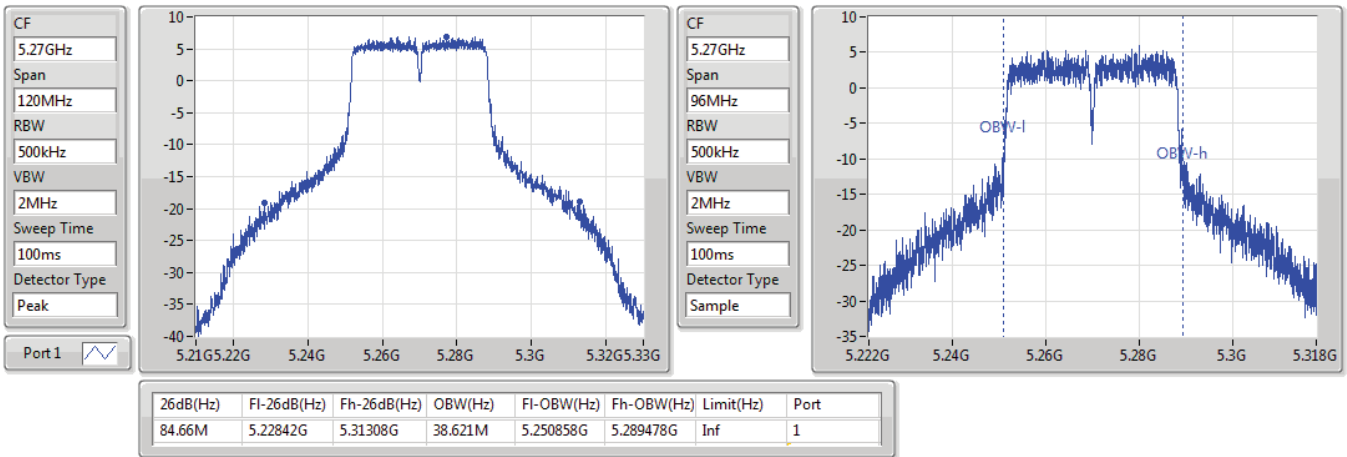


802.11ac VHT40_Nss1,(MCS0)_1TX

EBW

5270MHz

13/05/2020

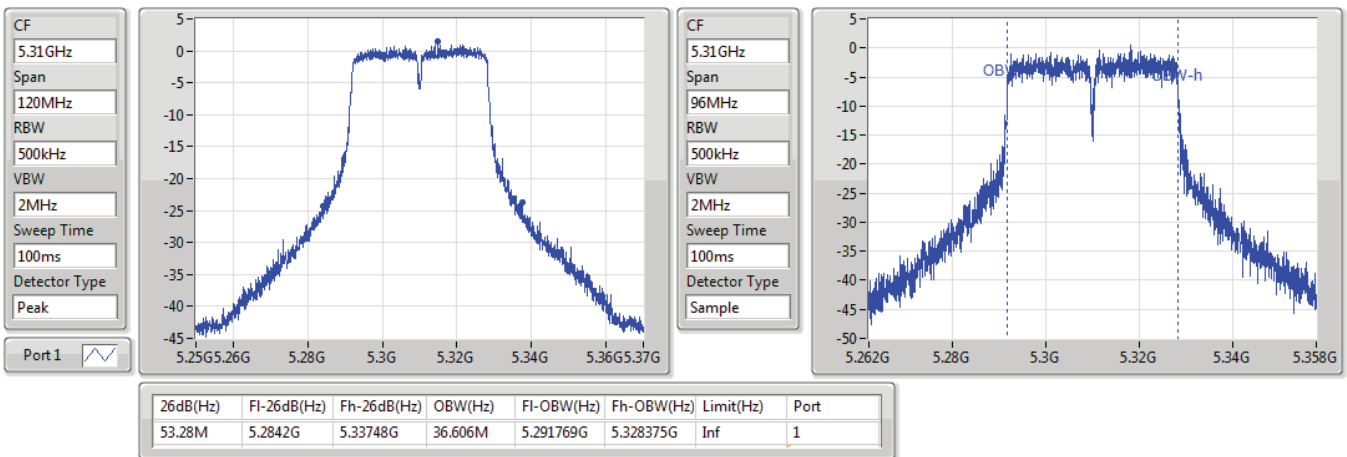


802.11ac VHT40_Nss1,(MCS0)_1TX

EBW

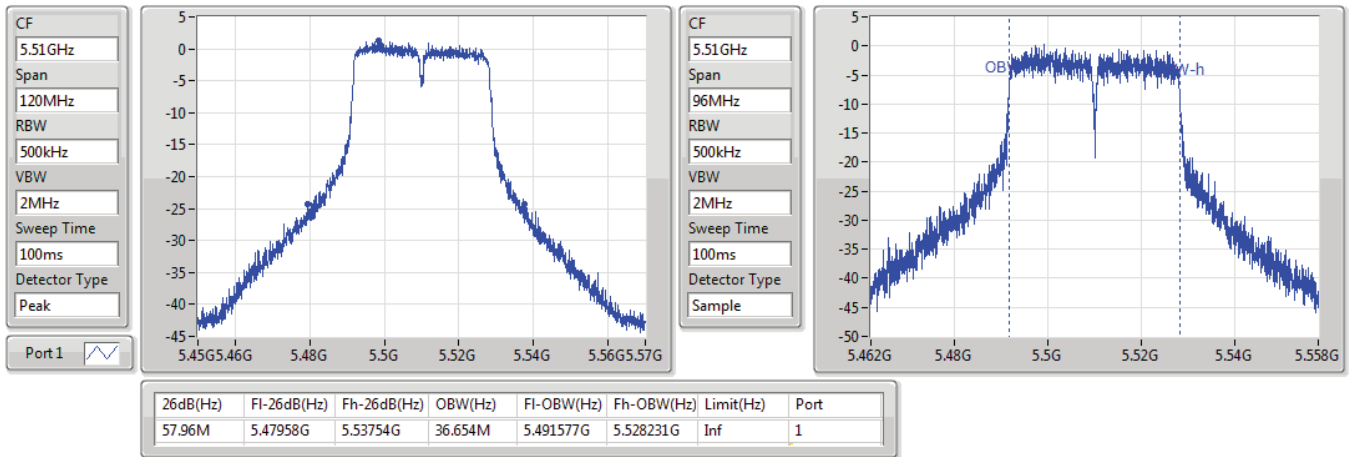
5310MHz

18/04/2020

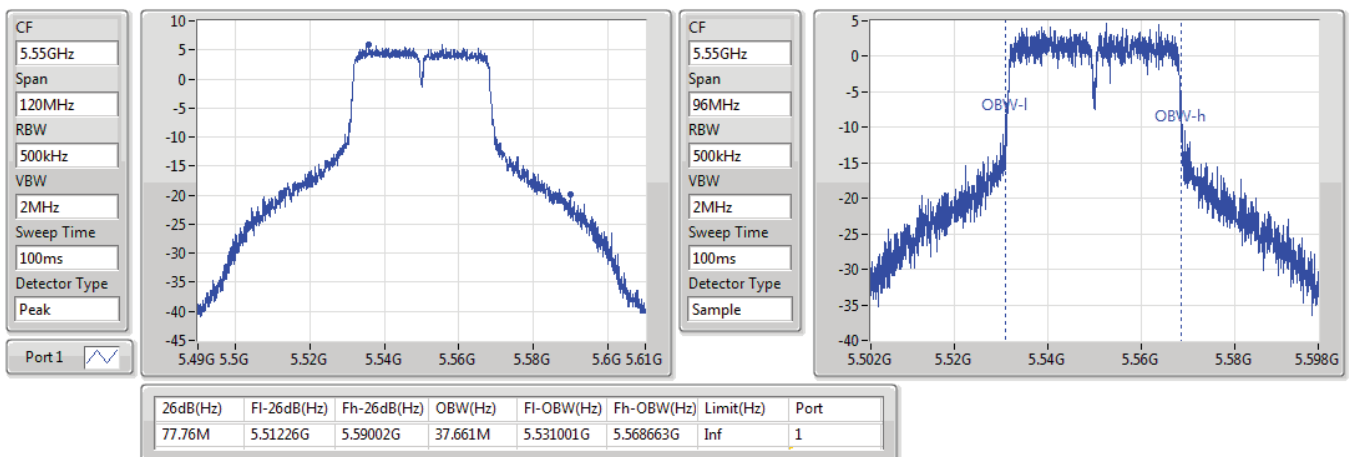


802.11ac VHT40_Nss1,(MCS0)_1TX
EBW
5510MHz

18/04/2020

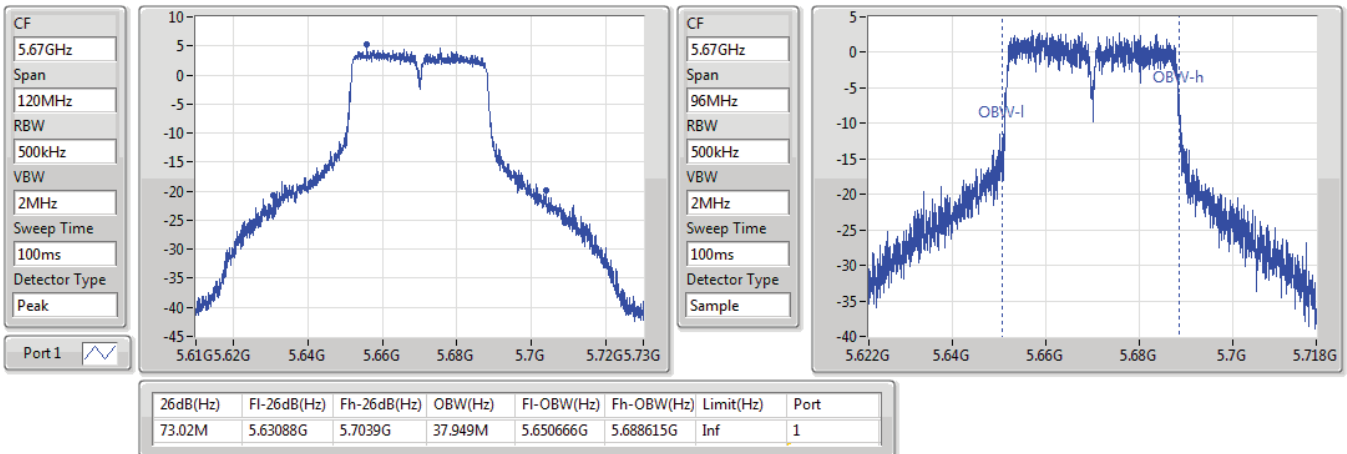

802.11ac VHT40_Nss1,(MCS0)_1TX
EBW
5550MHz

13/05/2020

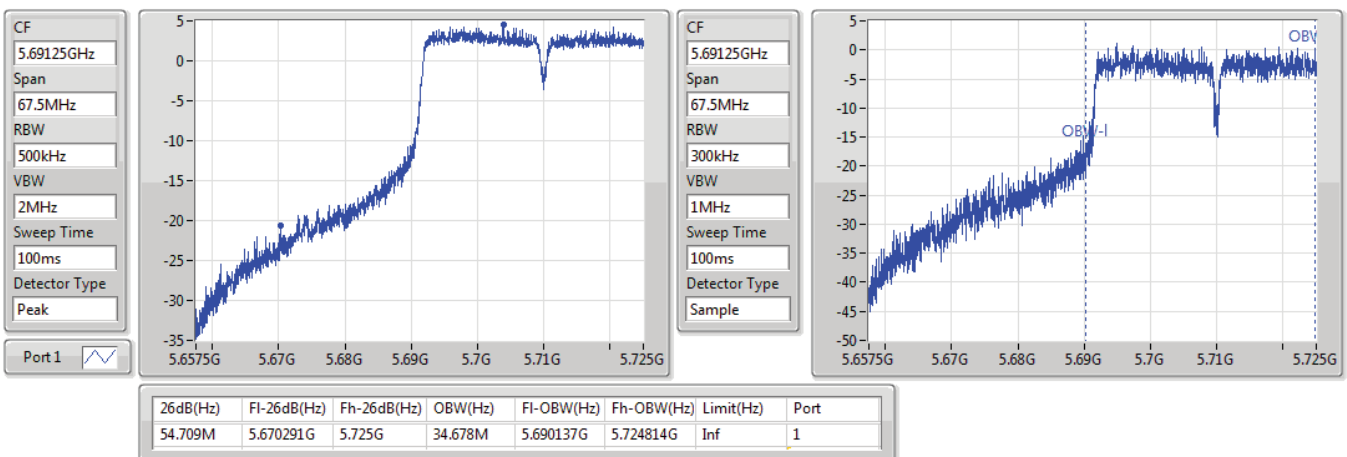


802.11ac VHT40_Nss1,(MCS0)_1TX
EBW
5670MHz

13/05/2020

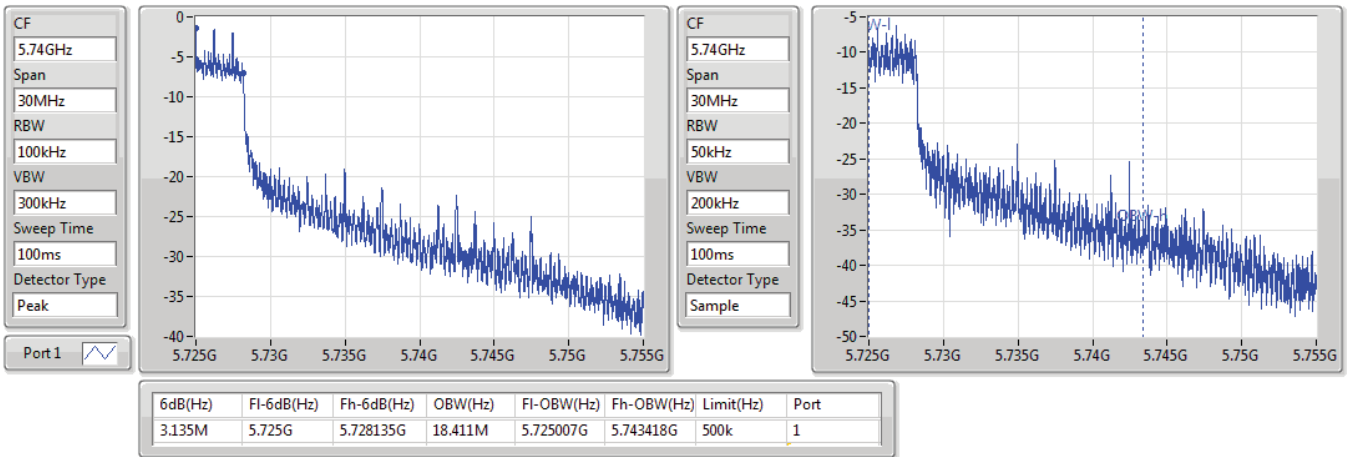

802.11ac VHT40_Nss1,(MCS0)_1TX
EBW
5710MHz Straddle 5.47-5.725GHz

13/05/2020

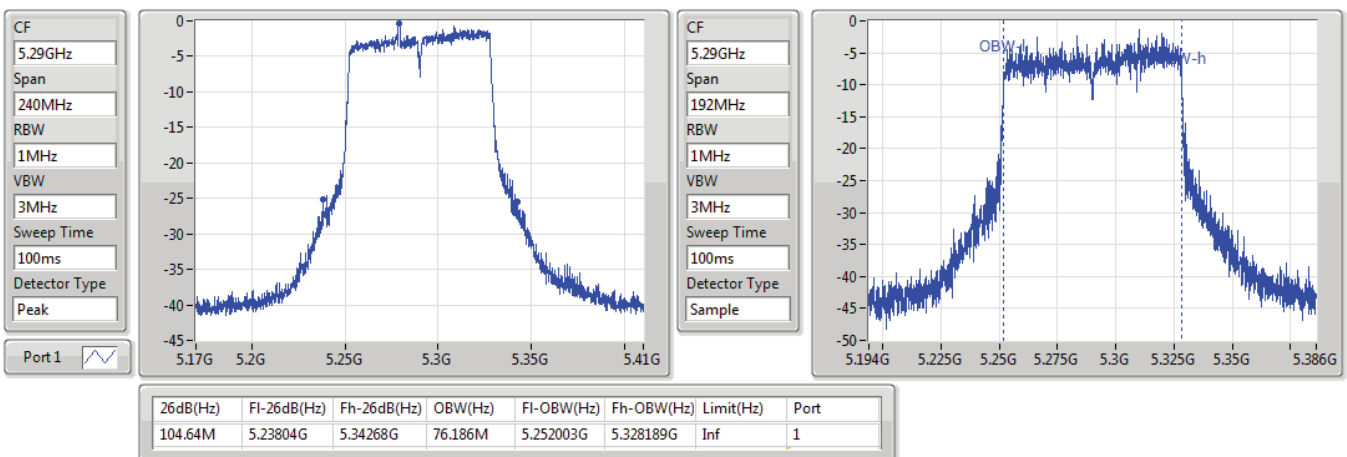


802.11ac VHT40_Nss1,(MCS0)_1TX
EBW
5710MHz Straddle 5.725-5.85GHz

13/05/2020

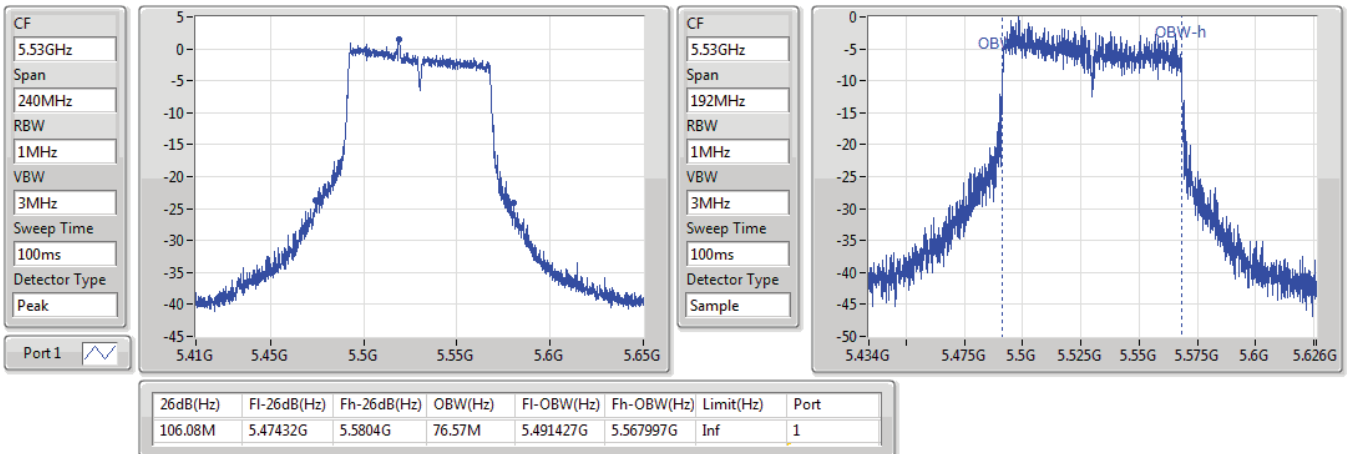

802.11ac VHT80_Nss1,(MCS0)_1TX
EBW
5290MHz

18/04/2020

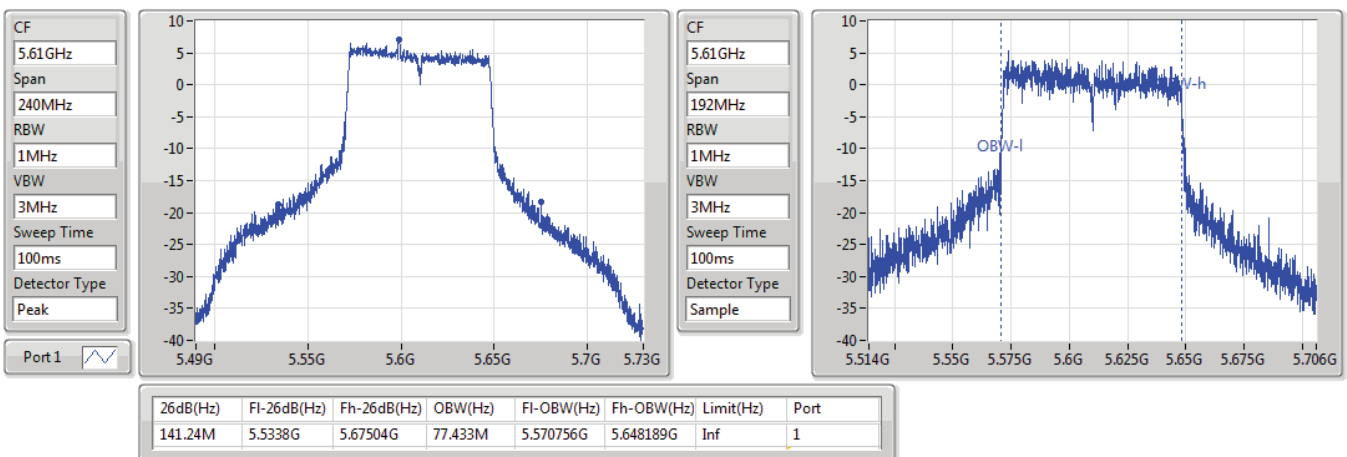


802.11ac VHT80_Nss1,(MCS0)_1TX
EBW
5530MHz

18/04/2020

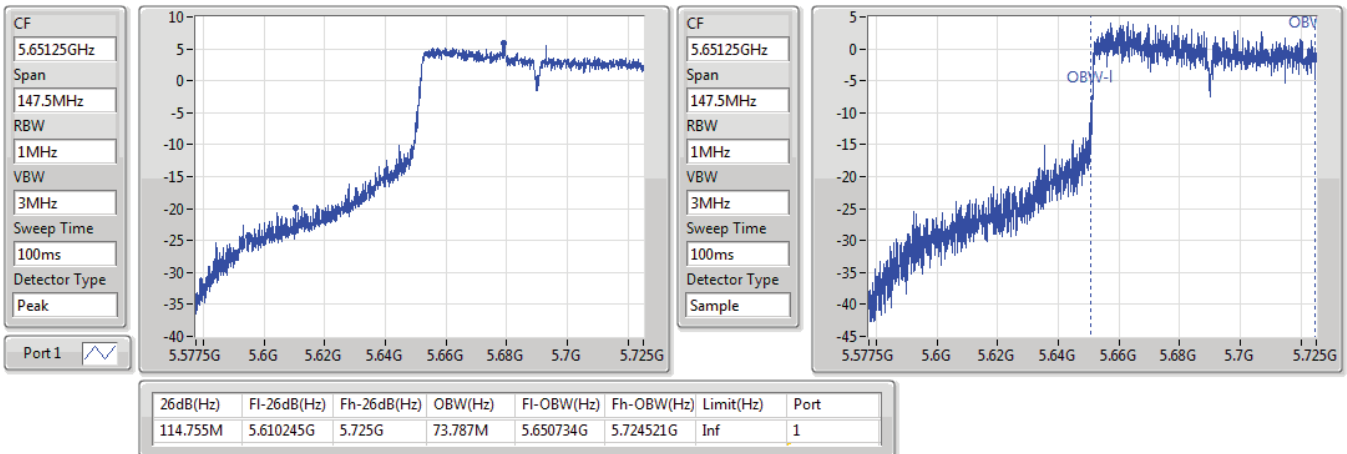

802.11ac VHT80_Nss1,(MCS0)_1TX
EBW
5610MHz

13/05/2020

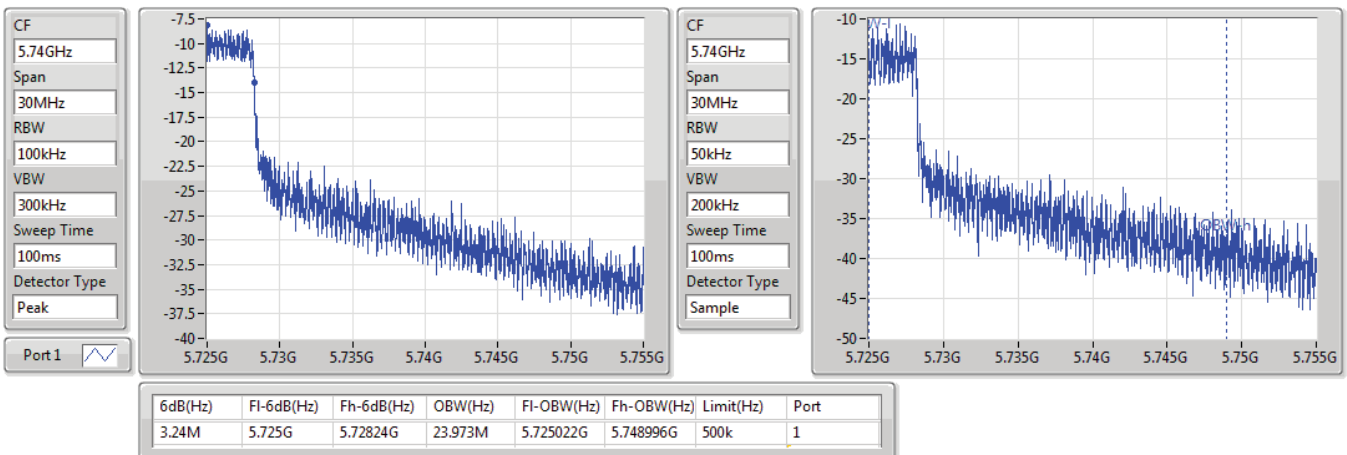


802.11ac VHT80_Nss1,(MCS0)_1TX
EBW
5690MHz Straddle 5.47-5.725GHz

13/05/2020


802.11ac VHT80_Nss1,(MCS0)_1TX
EBW
5690MHz Straddle 5.725-5.85GHz

13/05/2020



**Summary**

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.25-5.35GHz	-	-	-	-	-
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	21.06M	17.631M	17M6D1D	20.52M	17.559M
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	40.5M	36.222M	36M2D1D	39.3M	36.03M
802.11ac VHT80-BF_Nss1,(MCS0)_4TX	80.04M	75.514M	75M5D1D	79.68M	75.418M
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	21.12M	17.631M	17M6D1D	20.55M	17.559M
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	40.32M	36.174M	36M2D1D	38.94M	36.03M
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	80.16M	75.514M	75M5D1D	79.8M	75.418M
5.47-5.725GHz	-	-	-	-	-
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	21.27M	17.631M	17M6D1D	15.043M	13.771M
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	41.76M	36.174M	36M2D1D	34.965M	32.822M
802.11ac VHT80-BF_Nss1,(MCS0)_4TX	80.64M	75.706M	75M7D1D	74.93M	72.239M
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	21.06M	17.607M	17M6D1D	15.18M	13.784M
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	40.62M	36.222M	36M2D1D	34.931M	32.89M
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	80.16M	75.898M	75M9D1D	74.783M	72.239M
5.725-5.85GHz	-	-	-	-	-
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	3.78M	3.928M	3M93D1D	3.75M	3.898M
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	3.195M	3.523M	3M52D1D	3.18M	3.463M
802.11ac VHT80-BF_Nss1,(MCS0)_4TX	3.225M	3.733M	3M73D1D	3.21M	3.643M
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	3.765M	3.928M	3M93D1D	3.75M	3.913M
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	3.195M	3.493M	3M49D1D	3.195M	3.448M
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	3.24M	3.703M	3M70D1D	2.955M	3.598M

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)
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5260MHz	Pass	Inf	21.06M	17.583M	20.55M	17.583M	20.58M	17.607M	20.58M	17.559M
5300MHz	Pass	Inf	20.85M	17.607M	20.79M	17.583M	20.7M	17.631M	20.7M	17.607M
5320MHz	Pass	Inf	20.79M	17.583M	20.85M	17.607M	20.52M	17.559M	20.67M	17.607M
5500MHz	Pass	Inf	20.88M	17.583M	20.55M	17.583M	20.61M	17.607M	20.73M	17.607M
5580MHz	Pass	Inf	21.27M	17.583M	20.94M	17.607M	20.64M	17.607M	20.82M	17.607M
5700MHz	Pass	Inf	20.91M	17.583M	20.88M	17.607M	20.55M	17.631M	20.85M	17.583M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	15.359M	13.798M	15.043M	13.771M	15.304M	13.784M	15.276M	13.784M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	3.765M	3.928M	3.765M	3.913M	3.78M	3.913M	3.75M	3.898M
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5270MHz	Pass	Inf	39.3M	36.222M	40.26M	36.126M	40.5M	36.03M	39.72M	36.03M
5310MHz	Pass	Inf	39.84M	36.174M	39.54M	36.174M	40.08M	36.174M	39.36M	36.03M
5510MHz	Pass	Inf	39.48M	36.078M	40.5M	36.03M	41.76M	36.174M	40.08M	36.126M
5550MHz	Pass	Inf	39.18M	36.126M	40.2M	36.174M	39.66M	36.126M	39.84M	36.03M
5670MHz	Pass	Inf	40.26M	36.174M	40.32M	36.126M	40.38M	36.03M	39.96M	36.03M
5710MHz Straddle 5.47-5.725GHz	Pass	Inf	35.269M	32.856M	34.965M	32.924M	35.066M	32.957M	35.1M	32.822M
5710MHz Straddle 5.725-5.85GHz	Pass	500k	3.195M	3.523M	3.195M	3.463M	3.18M	3.463M	3.18M	3.493M
802.11ac VHT80-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5290MHz	Pass	Inf	79.68M	75.418M	80.04M	75.514M	79.68M	75.418M	80.04M	75.418M
5530MHz	Pass	Inf	79.92M	75.322M	79.56M	75.61M	80.28M	75.514M	80.16M	75.418M
5610MHz	Pass	Inf	79.8M	75.706M	79.8M	75.322M	79.8M	75.61M	80.64M	75.322M
5690MHz Straddle 5.47-5.725GHz	Pass	Inf	75.52M	72.534M	75.225M	72.313M	74.93M	72.239M	75.225M	72.239M
5690MHz Straddle 5.725-5.85GHz	Pass	500k	3.21M	3.733M	3.21M	3.703M	3.225M	3.643M	3.225M	3.658M
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5260MHz	Pass	Inf	20.58M	17.607M	20.94M	17.607M	20.76M	17.559M	20.76M	17.583M
5300MHz	Pass	Inf	20.55M	17.583M	21.12M	17.607M	20.76M	17.607M	20.58M	17.583M
5320MHz	Pass	Inf	20.82M	17.583M	20.55M	17.559M	20.67M	17.607M	20.55M	17.631M
5500MHz	Pass	Inf	20.79M	17.607M	20.76M	17.607M	20.52M	17.583M	21M	17.607M
5580MHz	Pass	Inf	20.76M	17.607M	20.82M	17.607M	20.91M	17.583M	20.58M	17.559M
5700MHz	Pass	Inf	20.79M	17.607M	20.79M	17.559M	20.76M	17.607M	21.06M	17.583M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	15.345M	13.812M	15.249M	13.812M	15.318M	13.812M	15.18M	13.784M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	3.765M	3.928M	3.75M	3.928M	3.75M	3.928M	3.75M	3.913M
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5270MHz	Pass	Inf	38.94M	36.174M	39.78M	36.174M	39.72M	36.03M	40.14M	36.126M
5310MHz	Pass	Inf	39.66M	36.174M	39.84M	36.078M	39.78M	36.126M	40.32M	36.03M
5510MHz	Pass	Inf	39.78M	36.174M	39.54M	36.078M	39.72M	36.174M	40.02M	36.078M
5550MHz	Pass	Inf	39.84M	36.126M	39.6M	36.126M	40.62M	36.126M	39.84M	36.078M
5670MHz	Pass	Inf	39.48M	36.126M	39.84M	36.078M	39.96M	36.222M	39.78M	36.126M
5710MHz Straddle 5.47-5.725GHz	Pass	Inf	35.066M	32.924M	35.066M	32.89M	35.134M	32.89M	34.931M	32.924M
5710MHz Straddle 5.725-5.85GHz	Pass	500k	3.195M	3.448M	3.195M	3.463M	3.195M	3.478M	3.195M	3.493M
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5290MHz	Pass	Inf	79.8M	75.514M	79.92M	75.418M	80.16M	75.418M	79.8M	75.514M
5530MHz	Pass	Inf	79.92M	75.322M	80.04M	75.514M	80.04M	75.61M	80.16M	75.418M
5610MHz	Pass	Inf	79.92M	75.514M	79.92M	75.706M	79.68M	75.898M	80.16M	75.514M



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)
5690MHz Straddle 5.47-5.725GHz	Pass	Inf	75.004M	72.239M	74.93M	72.46M	74.783M	72.239M	75.151M	72.607M
5690MHz Straddle 5.725-5.85GHz	Pass	500k	3.225M	3.703M	2.955M	3.658M	3.24M	3.598M	3.225M	3.673M

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

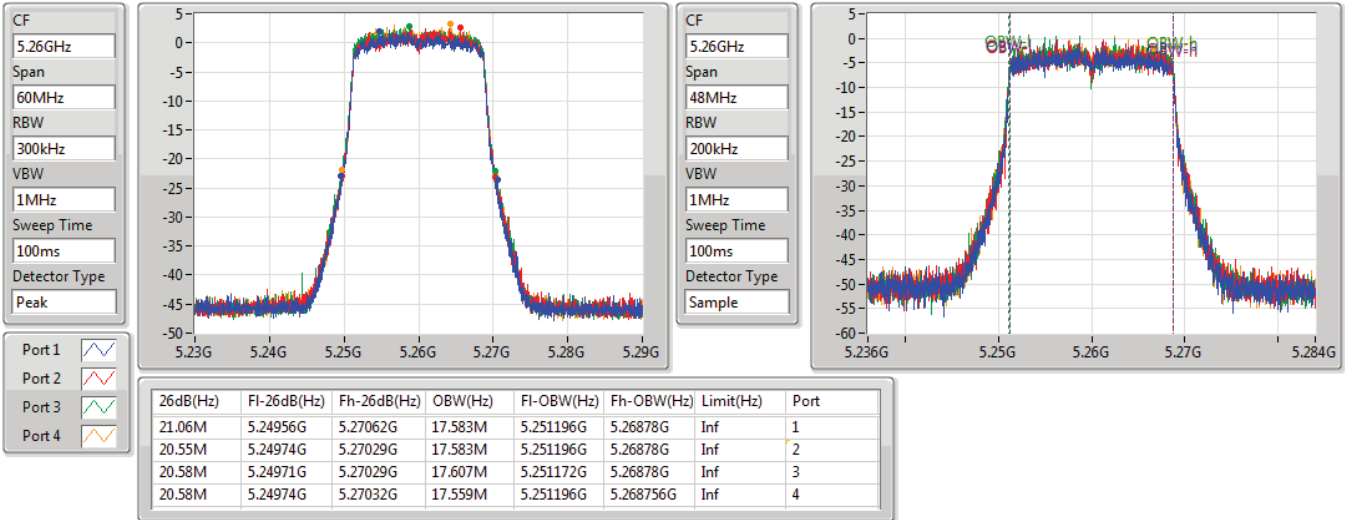
Port X-OBW = Port X 99% occupied bandwidth;

802.11ac VHT20-BF_Nss1,(MCS0)_4TX

EBW

5260MHz

05/05/2020

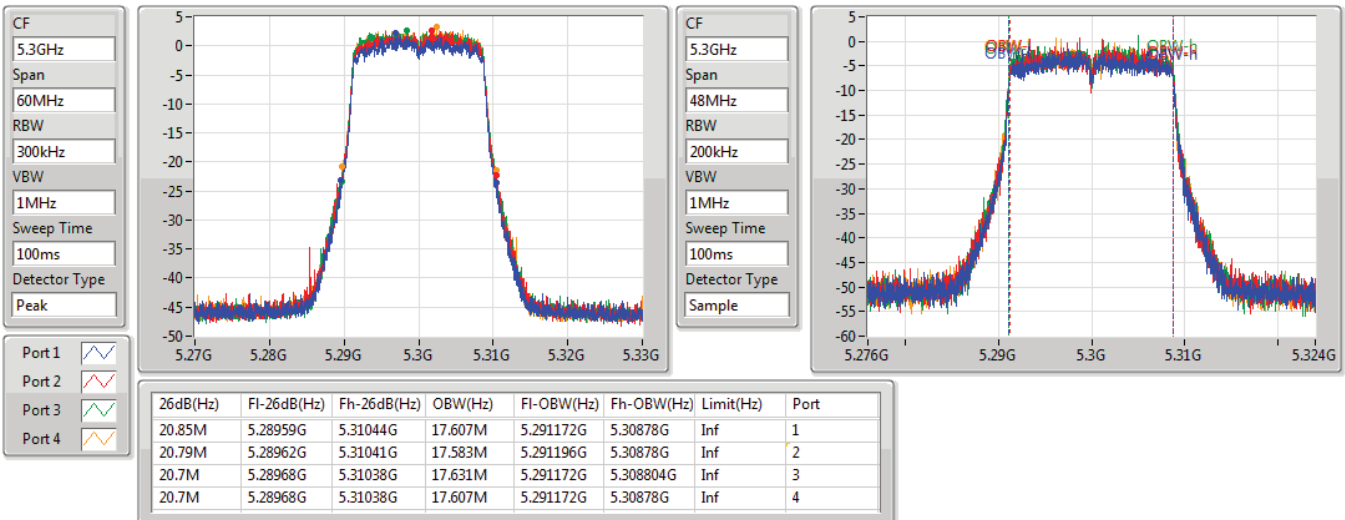


802.11ac VHT20-BF_Nss1,(MCS0)_4TX

EBW

5300MHz

05/05/2020

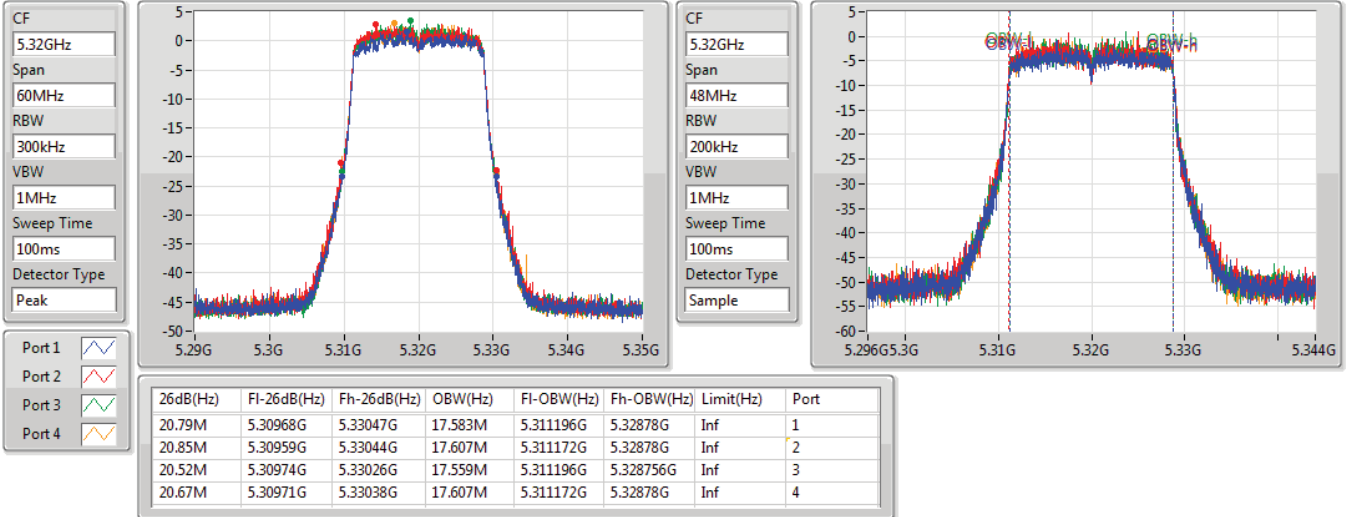


802.11ac VHT20-BF_Nss1,(MCS0)_4TX

EBW

5320MHz

05/05/2020

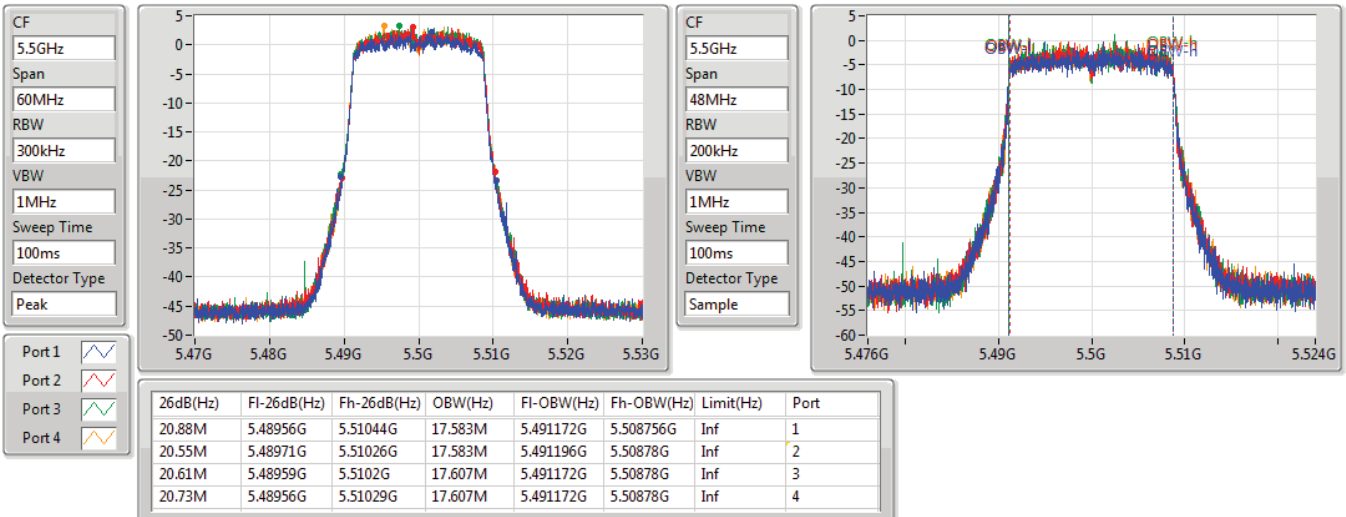


802.11ac VHT20-BF_Nss1,(MCS0)_4TX

EBW

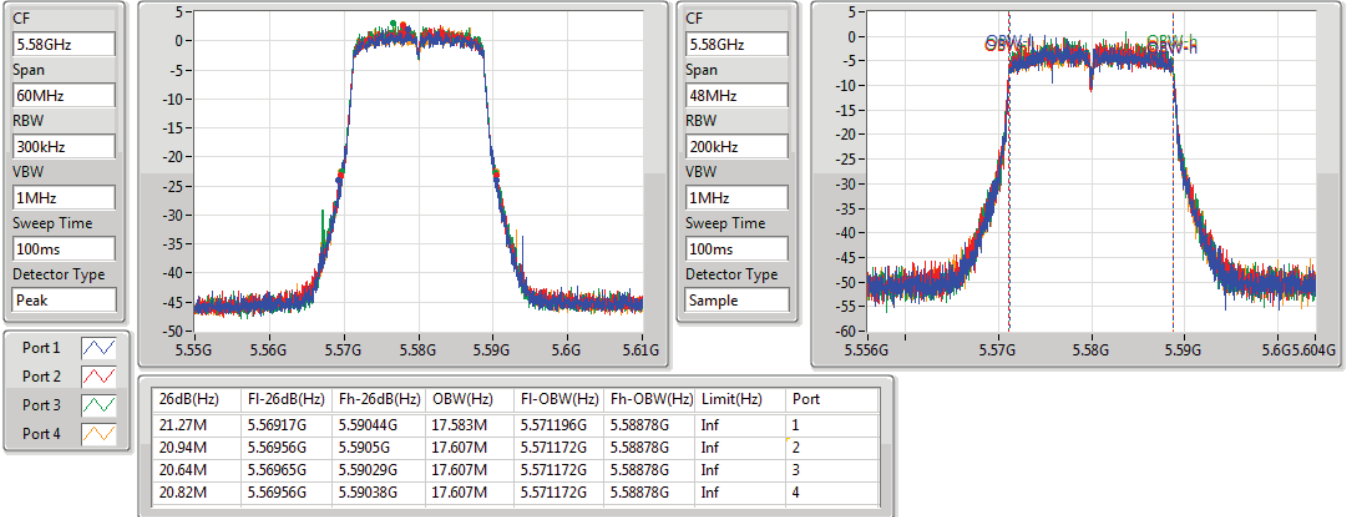
5500MHz

06/05/2020

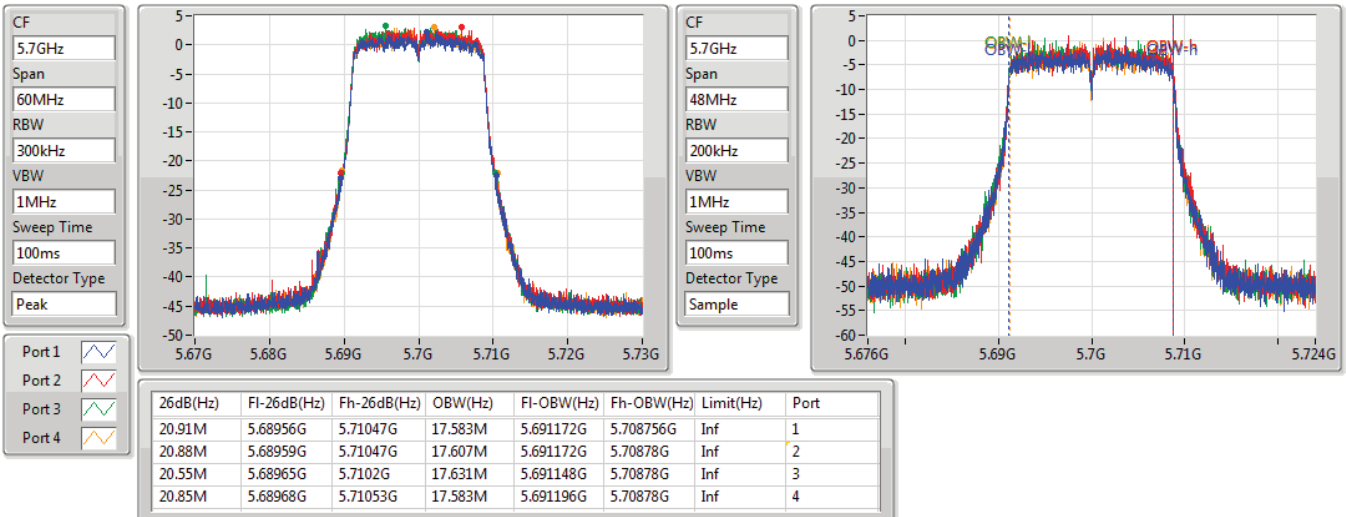


802.11ac VHT20-BF_Nss1,(MCS0)_4TX
EBW
5580MHz

06/05/2020

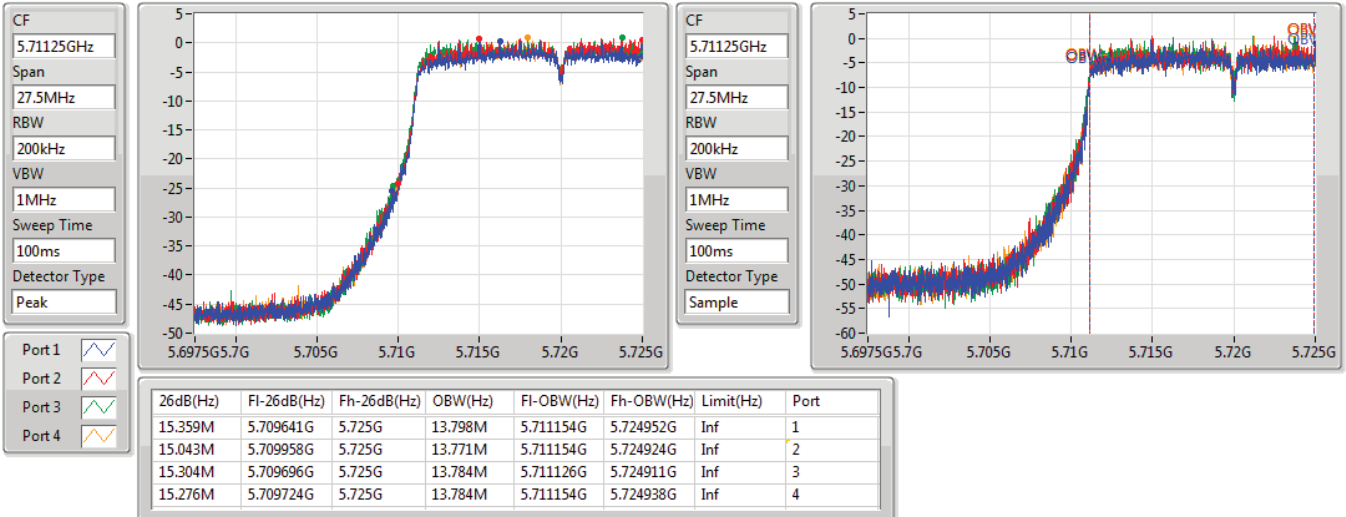

802.11ac VHT20-BF_Nss1,(MCS0)_4TX
EBW
5700MHz

06/05/2020

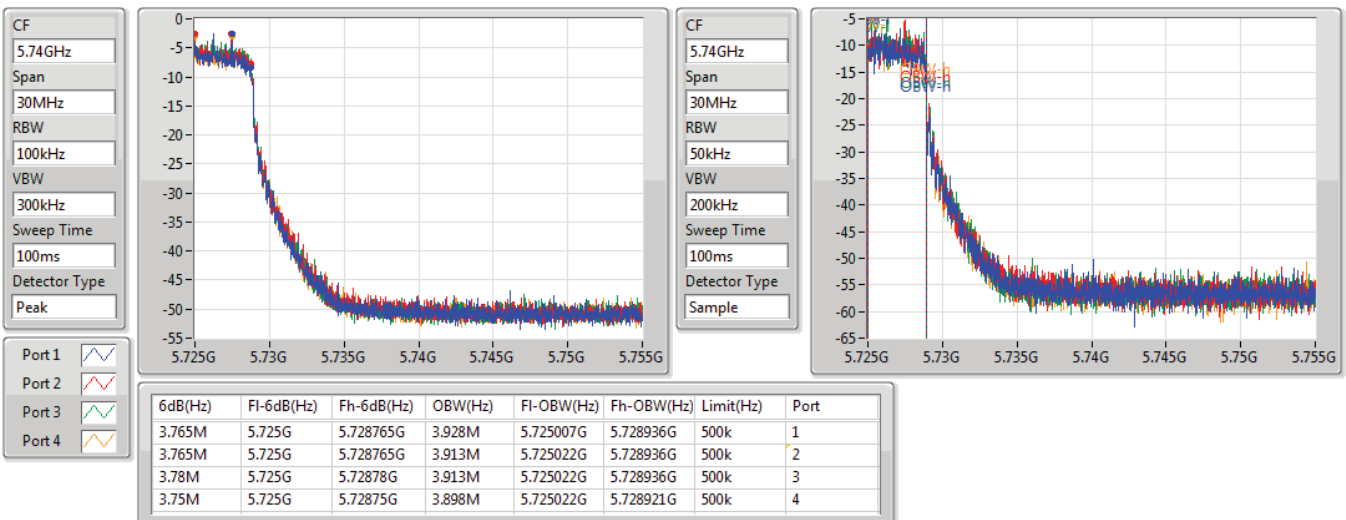


802.11ac VHT20-BF_Nss1,(MCS0)_4TX
EBW
5720MHz Straddle 5.47-5.725GHz

06/05/2020

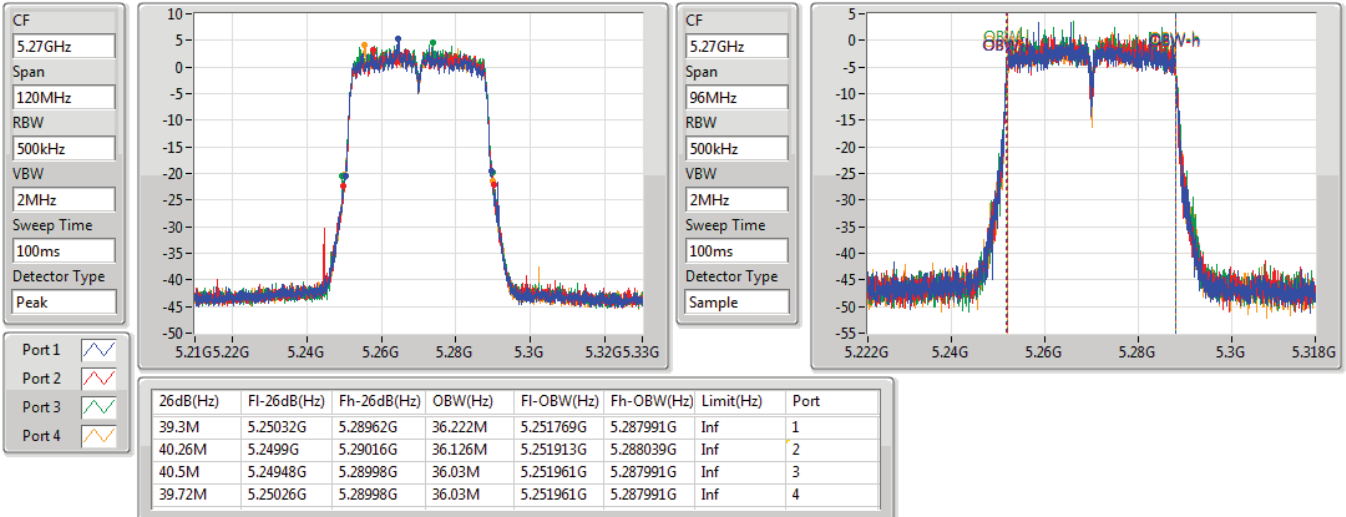

802.11ac VHT20-BF_Nss1,(MCS0)_4TX
EBW
5720MHz Straddle 5.725-5.85GHz

06/05/2020

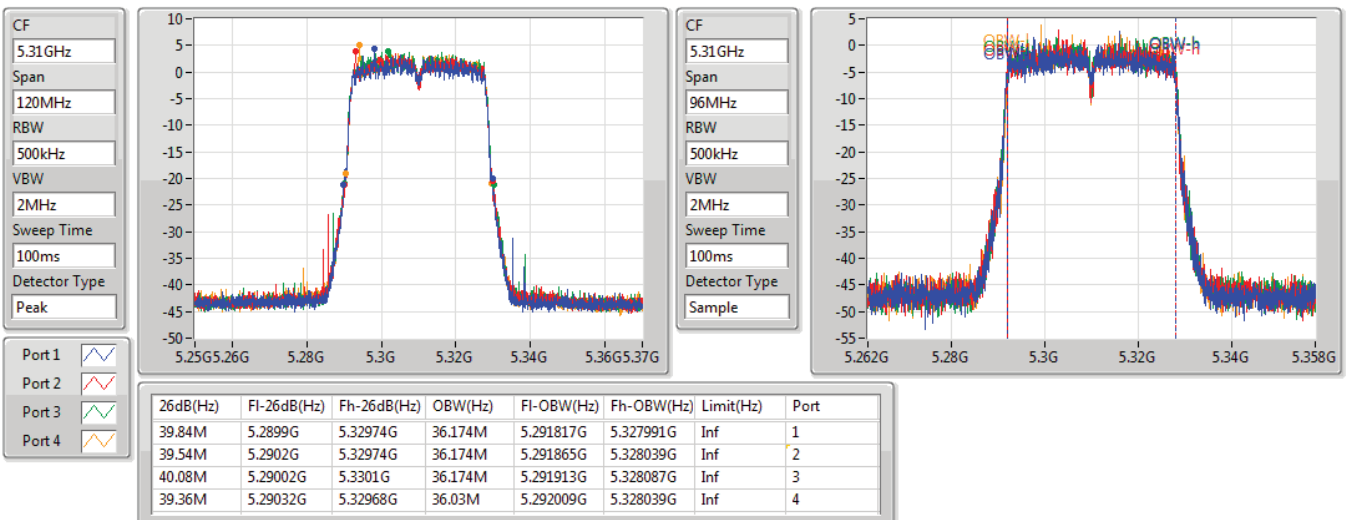


802.11ac VHT40-BF_Nss1,(MCS0)_4TX
EBW
5270MHz

06/05/2020


802.11ac VHT40-BF_Nss1,(MCS0)_4TX
EBW
5310MHz

06/05/2020

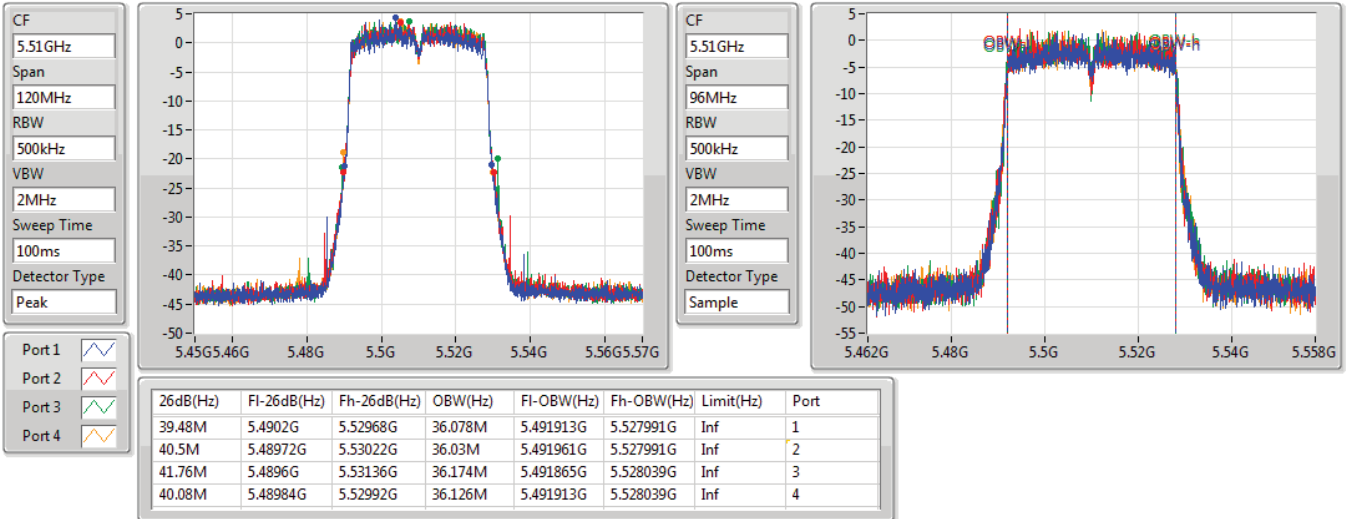


802.11ac VHT40-BF_Nss1,(MCS0)_4TX

EBW

5510MHz

06/05/2020

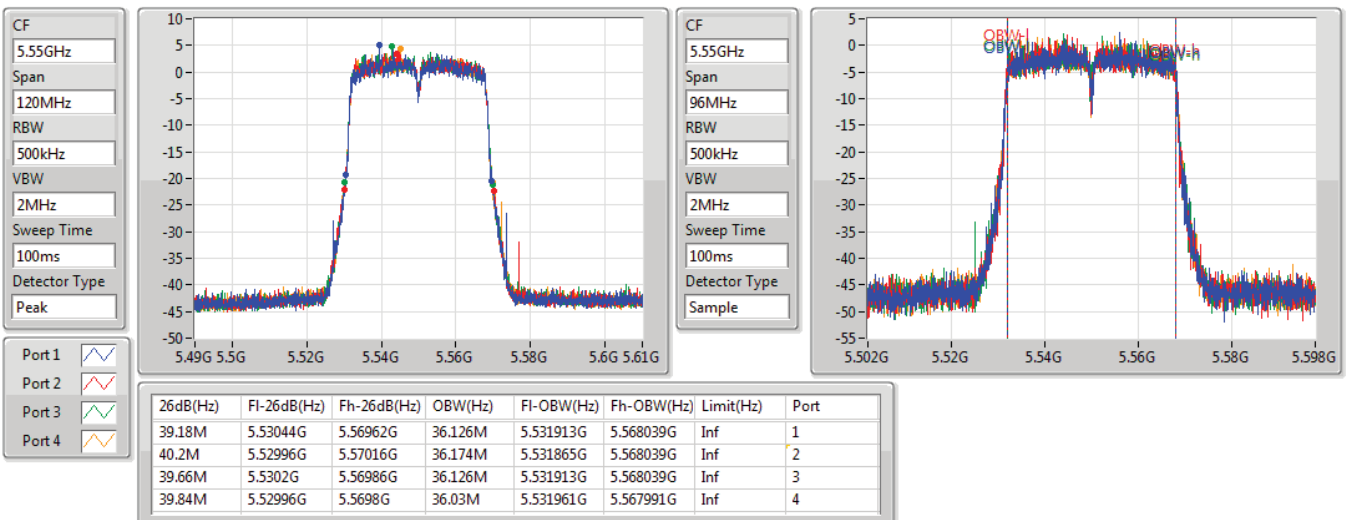


802.11ac VHT40-BF_Nss1,(MCS0)_4TX

EBW

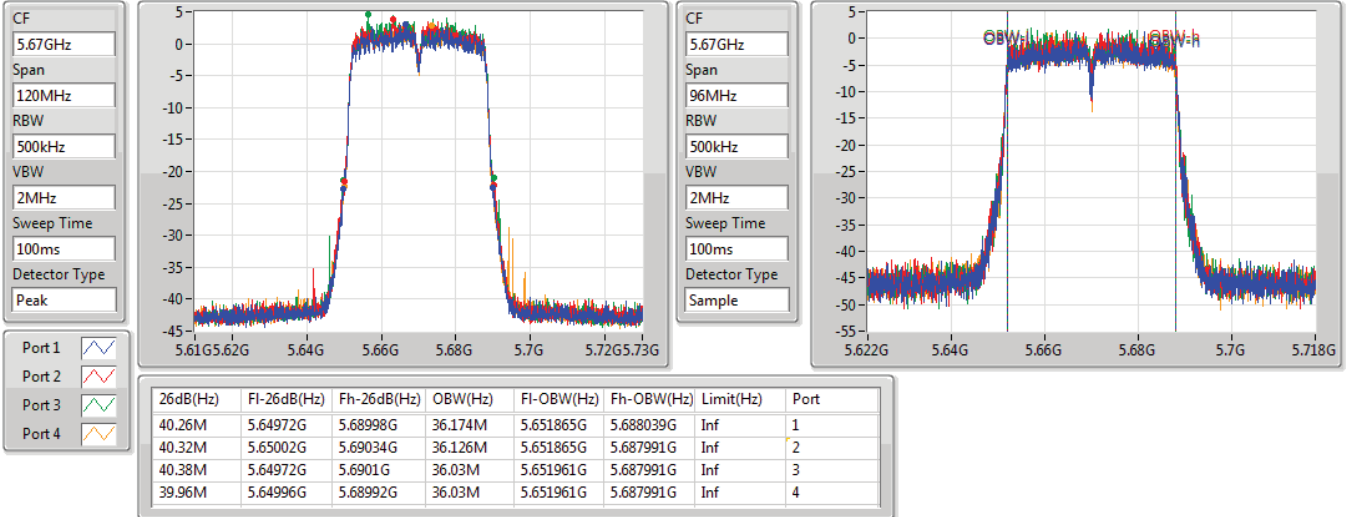
5550MHz

06/05/2020

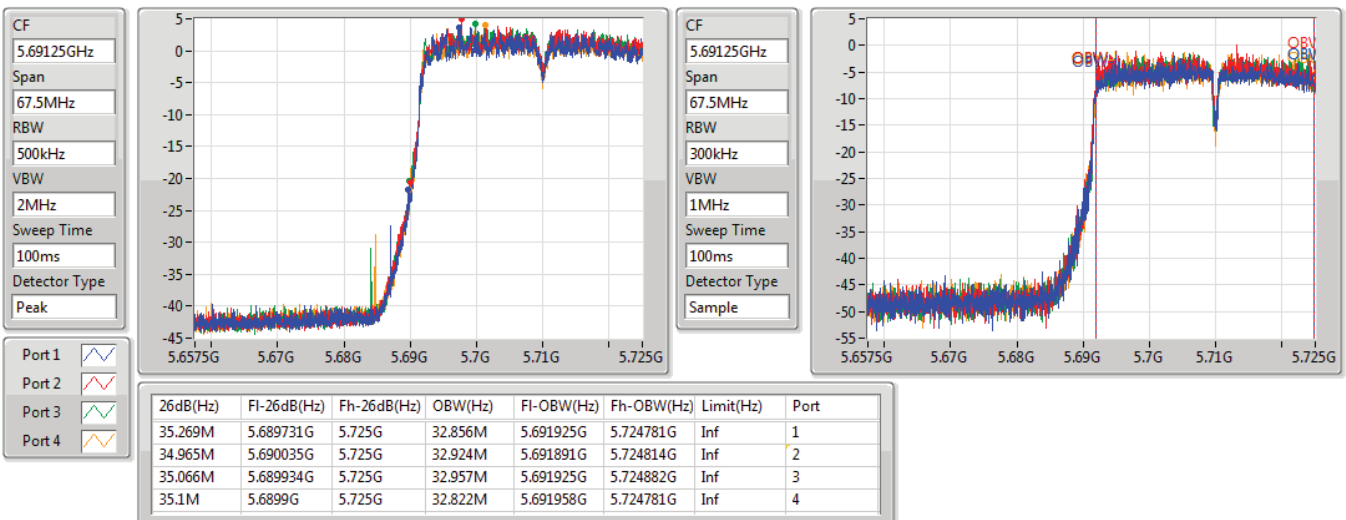


802.11ac VHT40-BF_Nss1,(MCS0)_4TX
EBW
5670MHz

06/05/2020

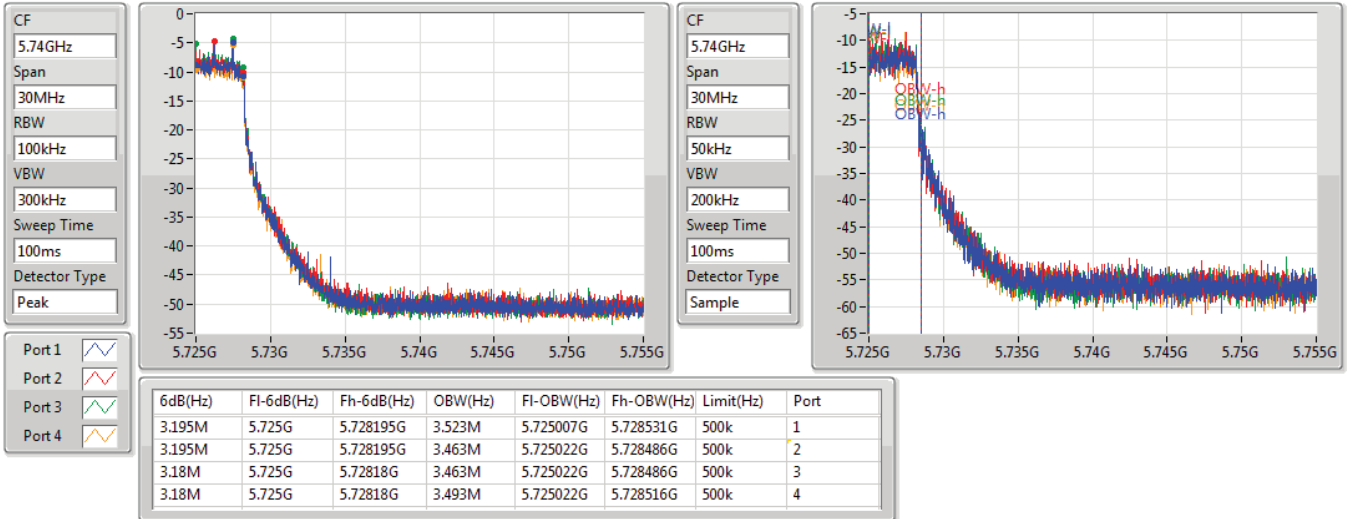

802.11ac VHT40-BF_Nss1,(MCS0)_4TX
EBW
5710MHz Straddle 5.47-5.725GHz

06/05/2020

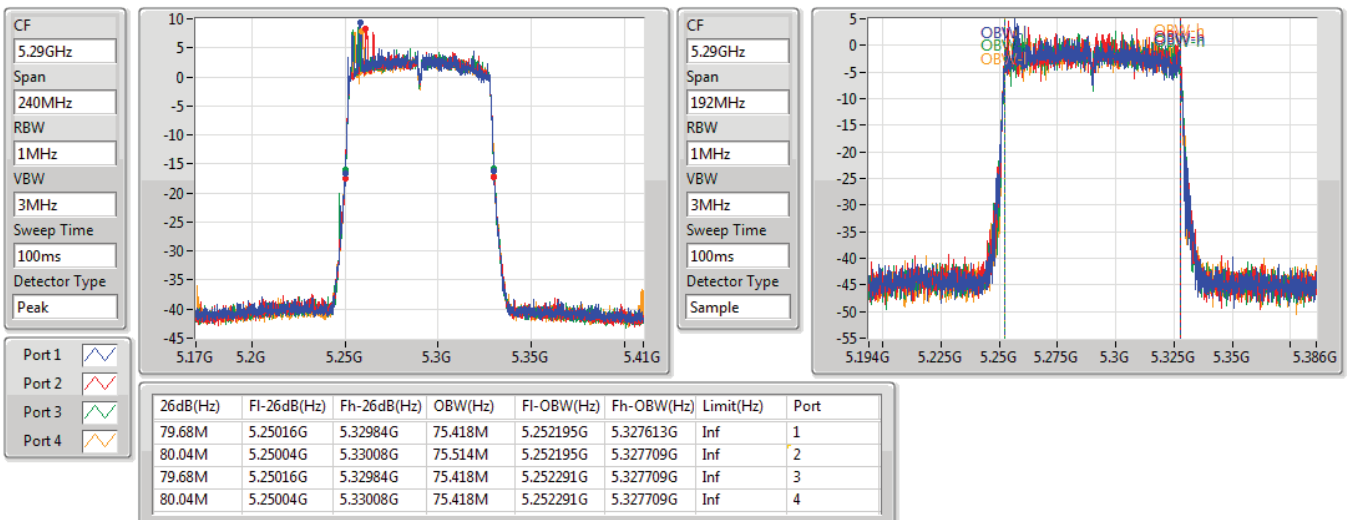


802.11ac VHT40-BF_Nss1,(MCS0)_4TX
EBW
5710MHz Straddle 5.725-5.85GHz

06/05/2020


802.11ac VHT80-BF_Nss1,(MCS0)_4TX
EBW
5290MHz

13/05/2020

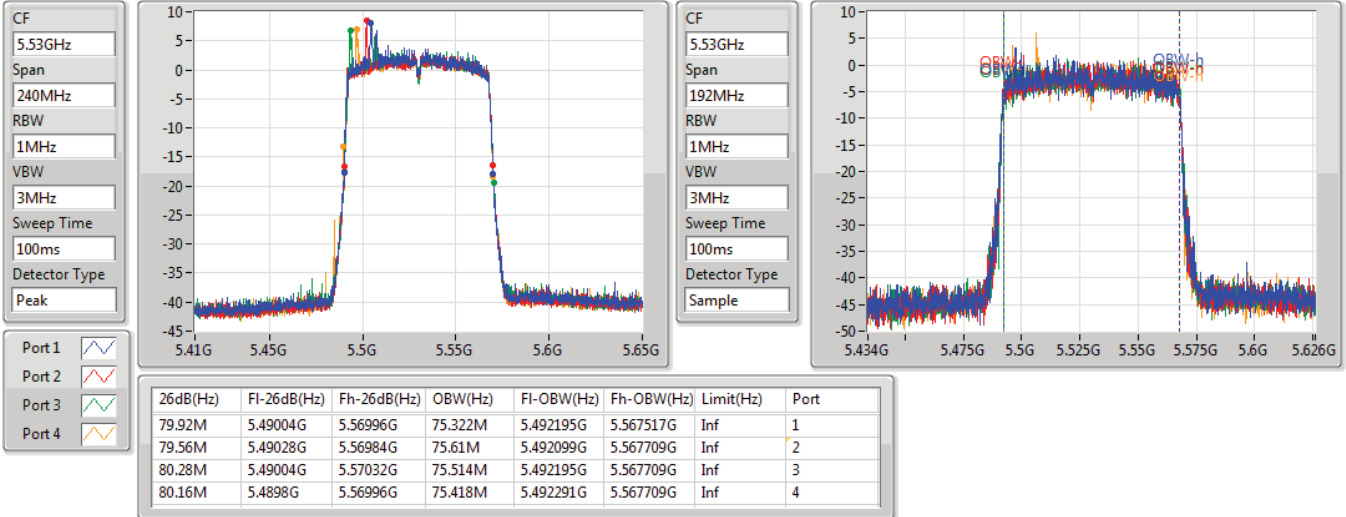


802.11ac VHT80-BF_Nss1,(MCS0)_4TX

EBW

5530MHz

13/05/2020

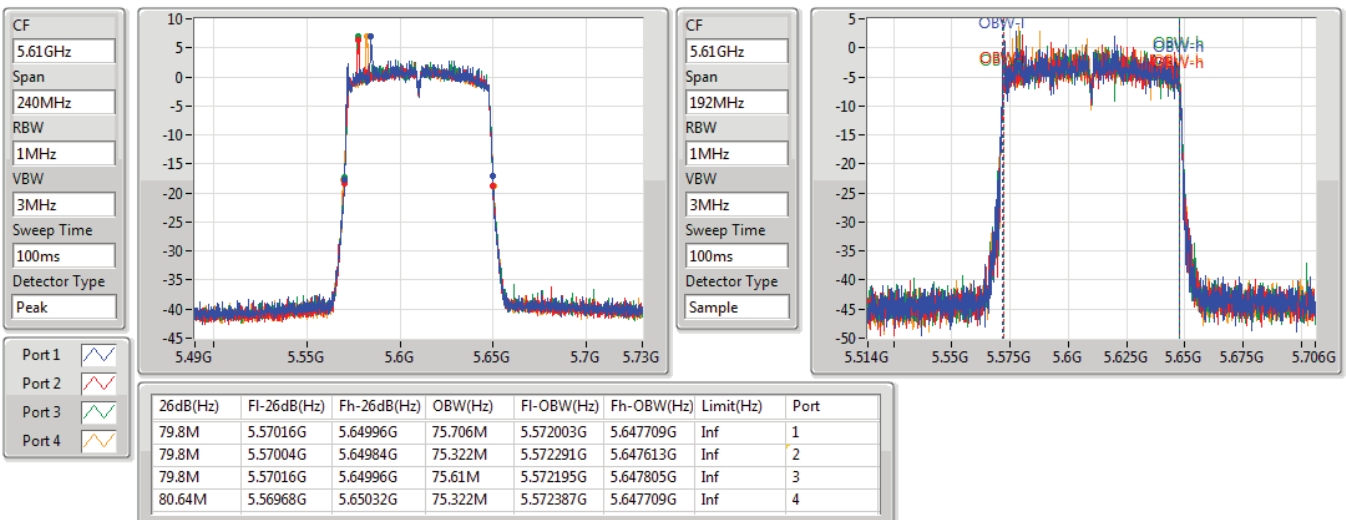


802.11ac VHT80-BF_Nss1,(MCS0)_4TX

EBW

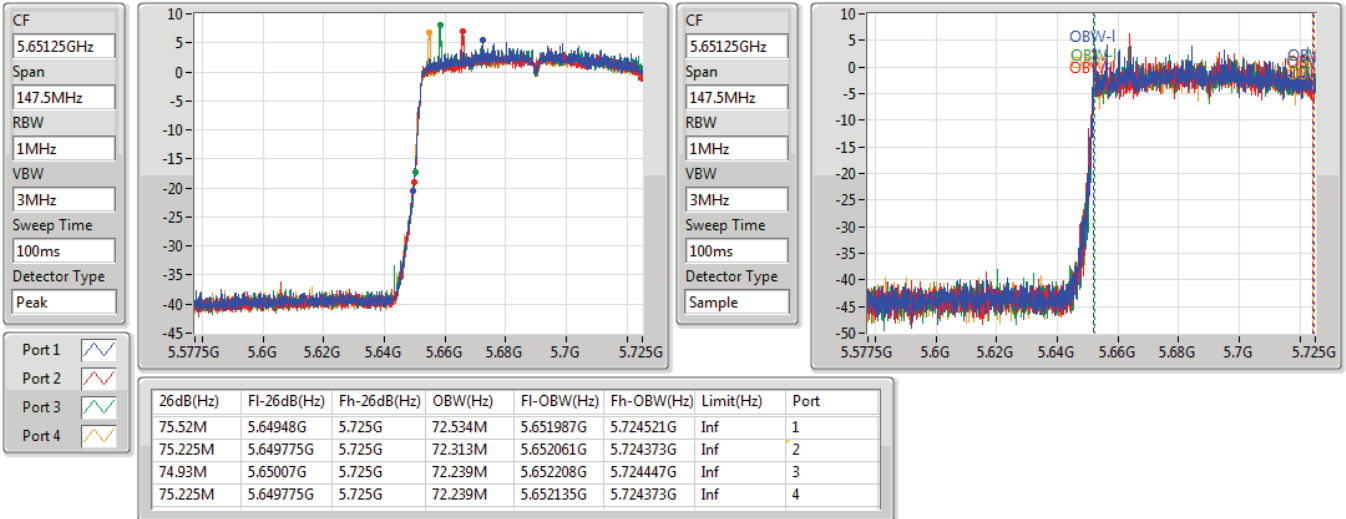
5610MHz

13/05/2020

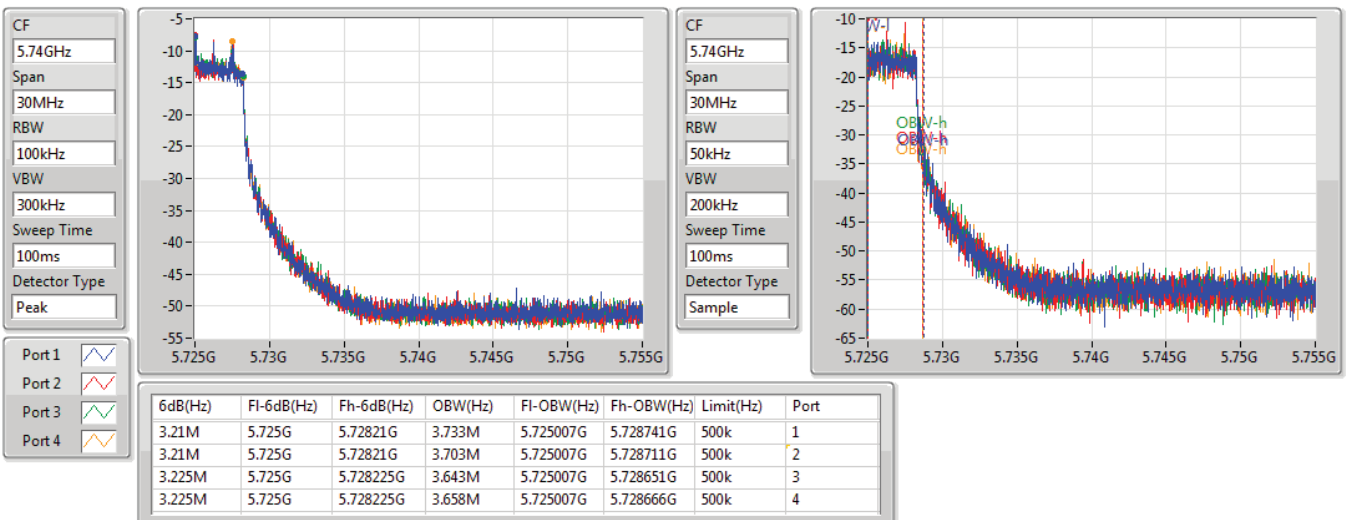


802.11ac VHT80-BF_Nss1,(MCS0)_4TX
EBW
5690MHz Straddle 5.47-5.725GHz

13/05/2020


802.11ac VHT80-BF_Nss1,(MCS0)_4TX
EBW
5690MHz Straddle 5.725-5.85GHz

13/05/2020

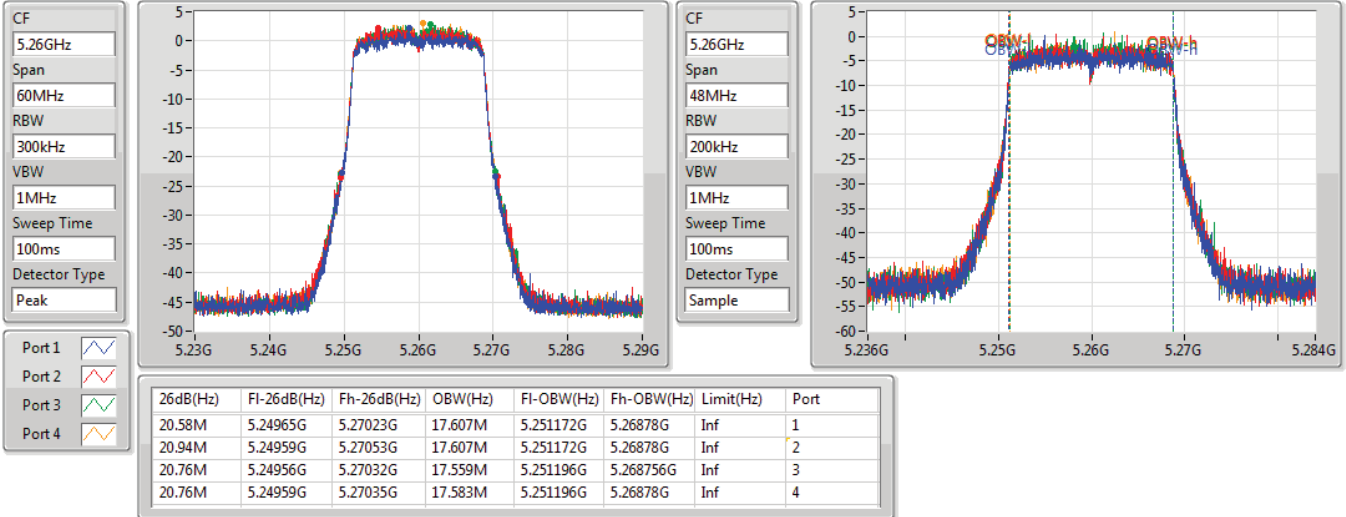


802.11ax HEW20-BF_Nss1,(MCS0)_4TX

EBW

5260MHz

05/05/2020

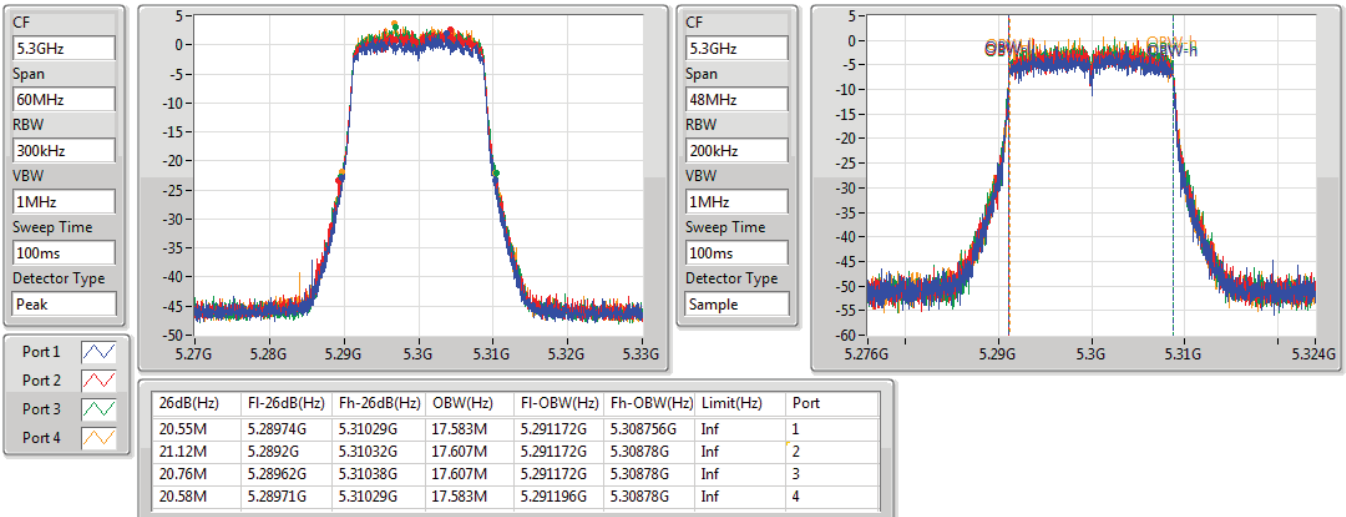


802.11ax HEW20-BF_Nss1,(MCS0)_4TX

EBW

5300MHz

05/05/2020

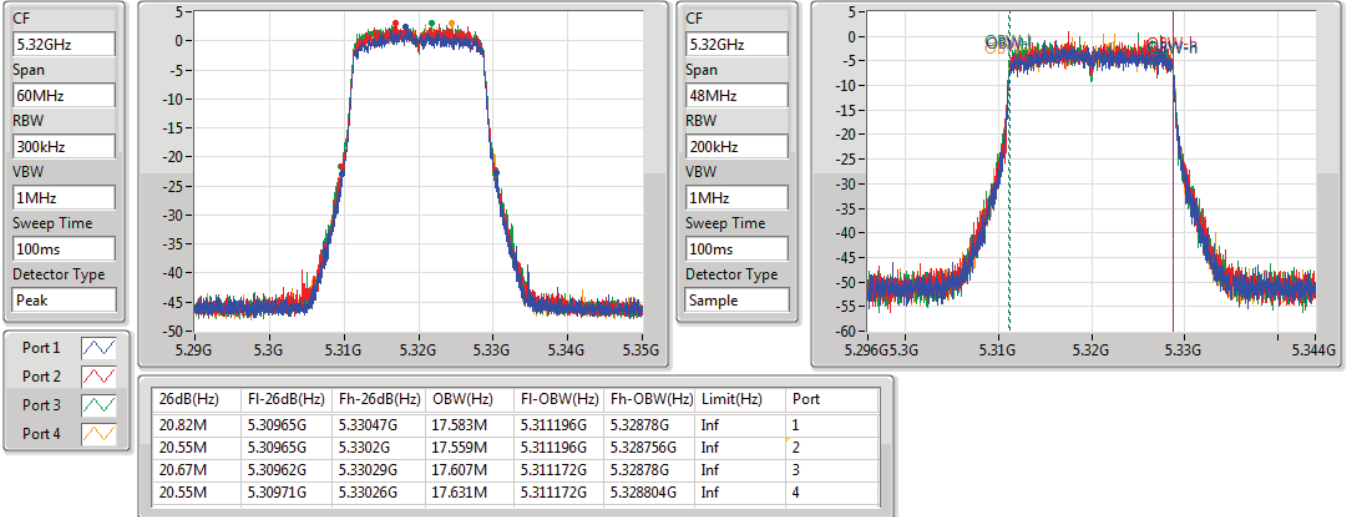


802.11ax HEW20-BF_Nss1,(MCS0)_4TX

EBW

5320MHz

05/05/2020

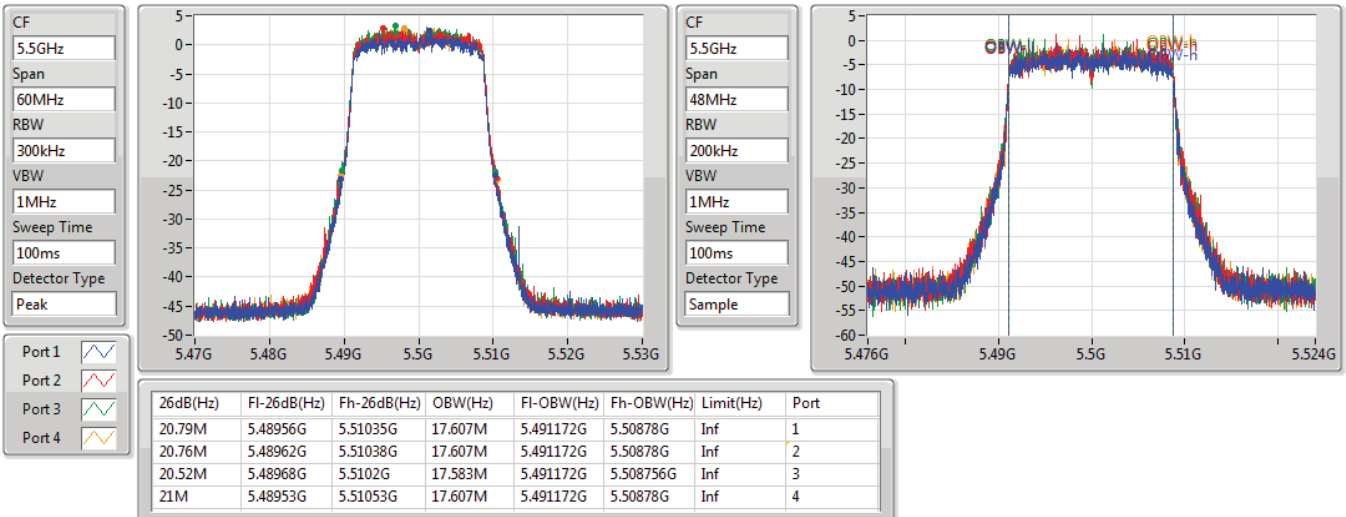


802.11ax HEW20-BF_Nss1,(MCS0)_4TX

EBW

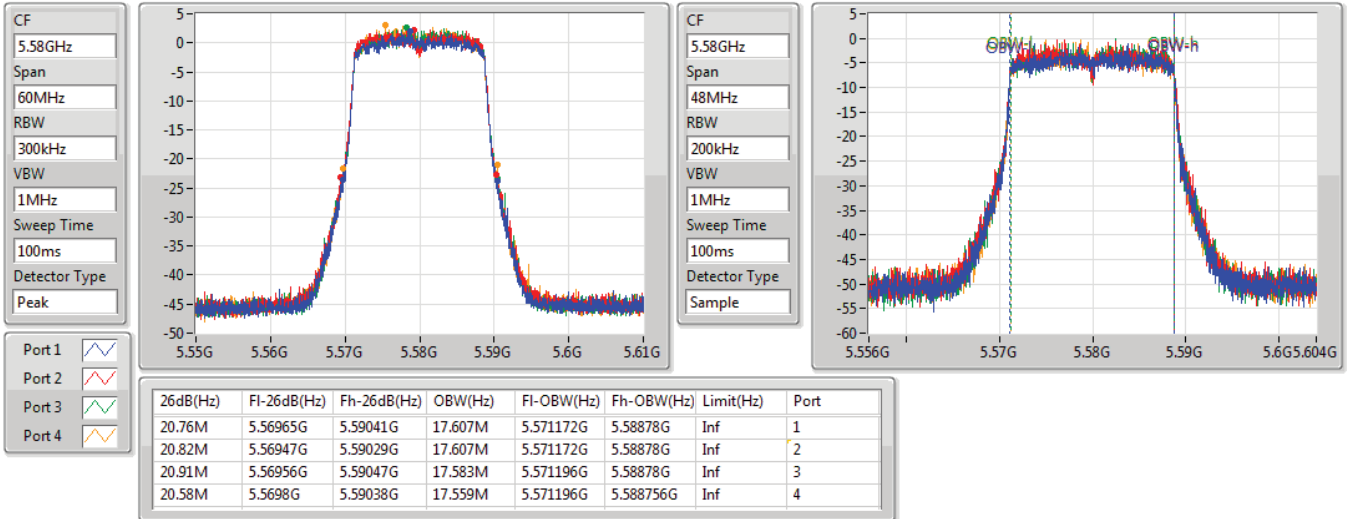
5500MHz

05/05/2020

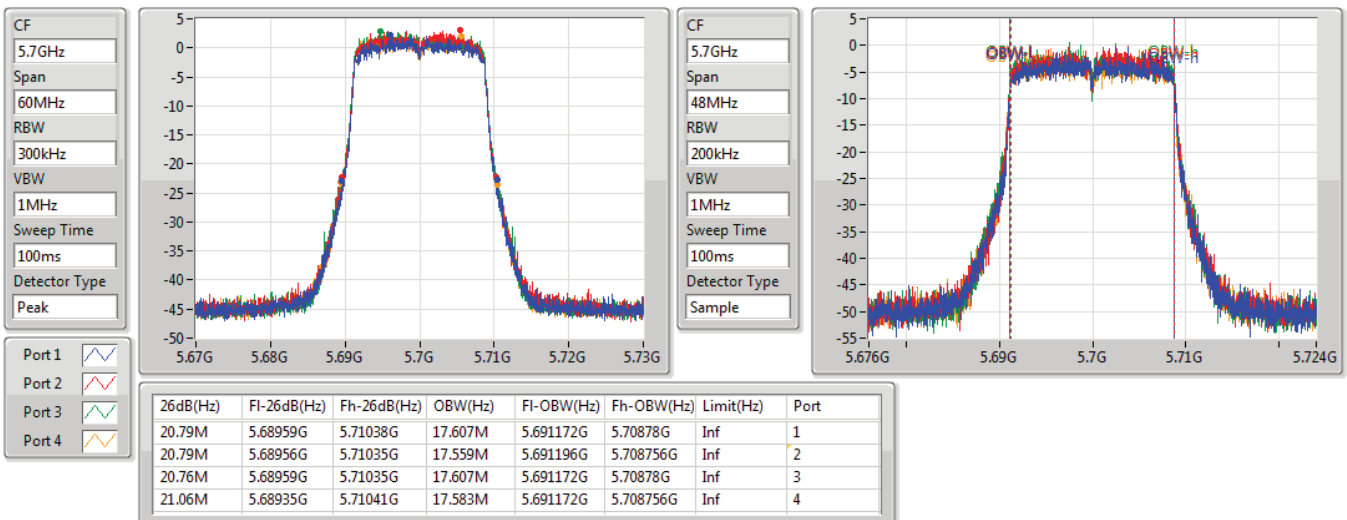


802.11ax HEW20-BF_Nss1,(MCS0)_4TX
EBW
5580MHz

05/05/2020

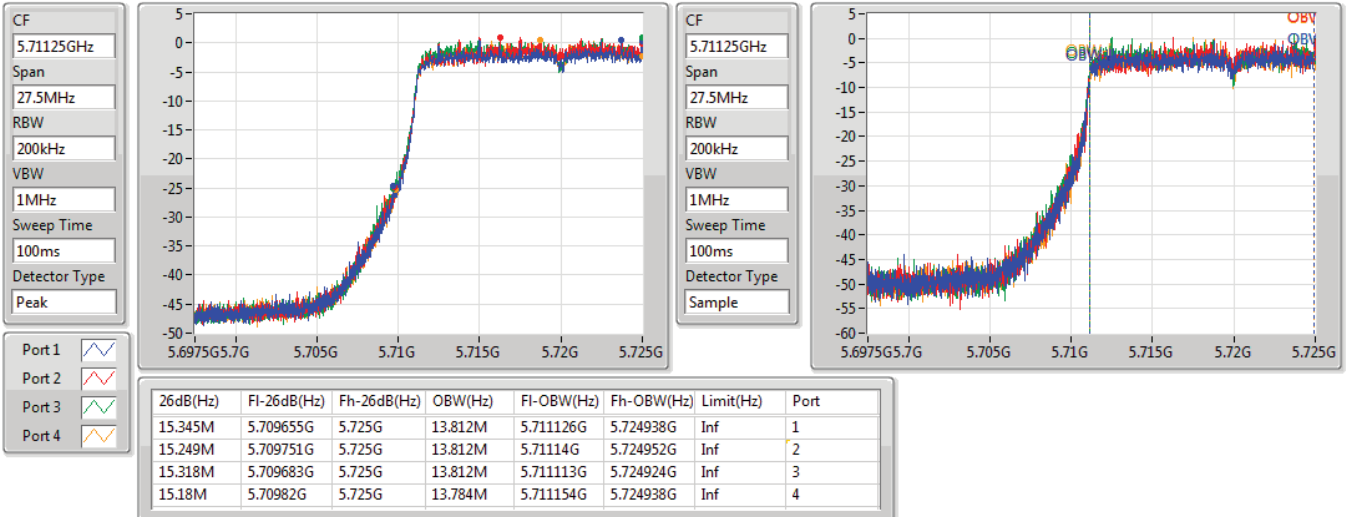

802.11ax HEW20-BF_Nss1,(MCS0)_4TX
EBW
5700MHz

05/05/2020

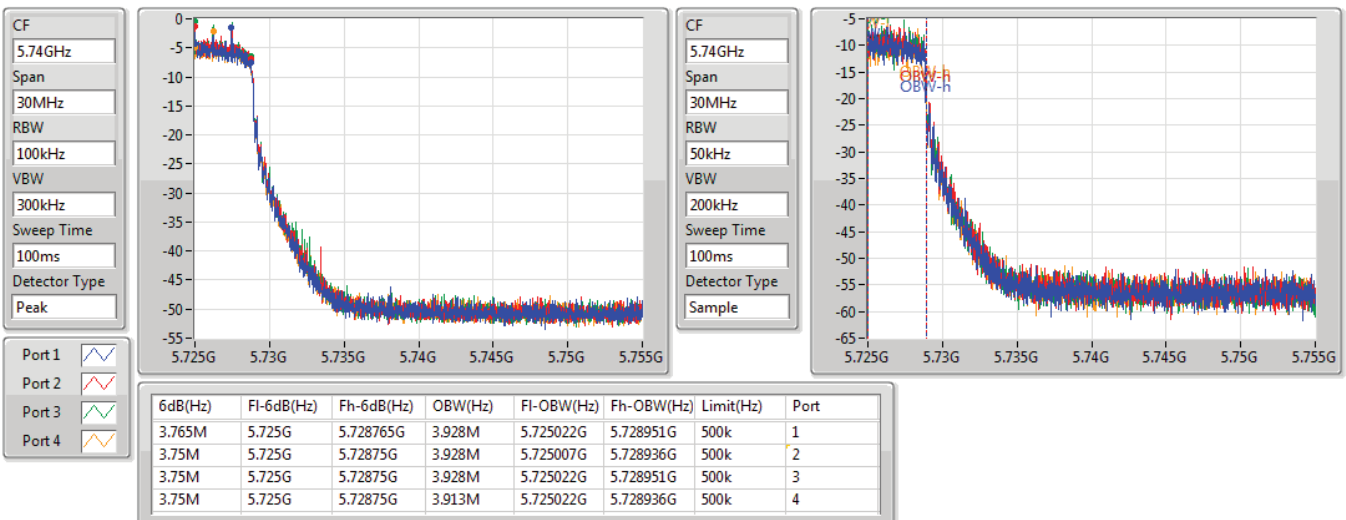


802.11ax HEW20-BF_Nss1,(MCS0)_4TX
EBW
5720MHz Straddle 5.47-5.725GHz

05/05/2020


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

05/05/2020

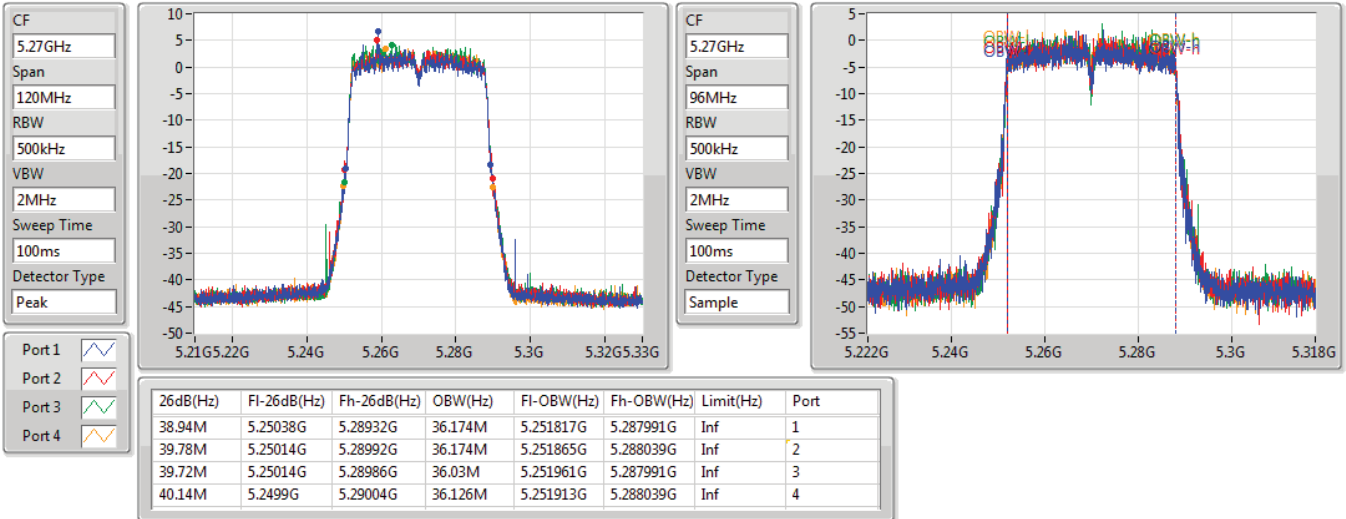


802.11ax HEW40-BF_Nss1,(MCS0)_4TX

EBW

5270MHz

06/05/2020

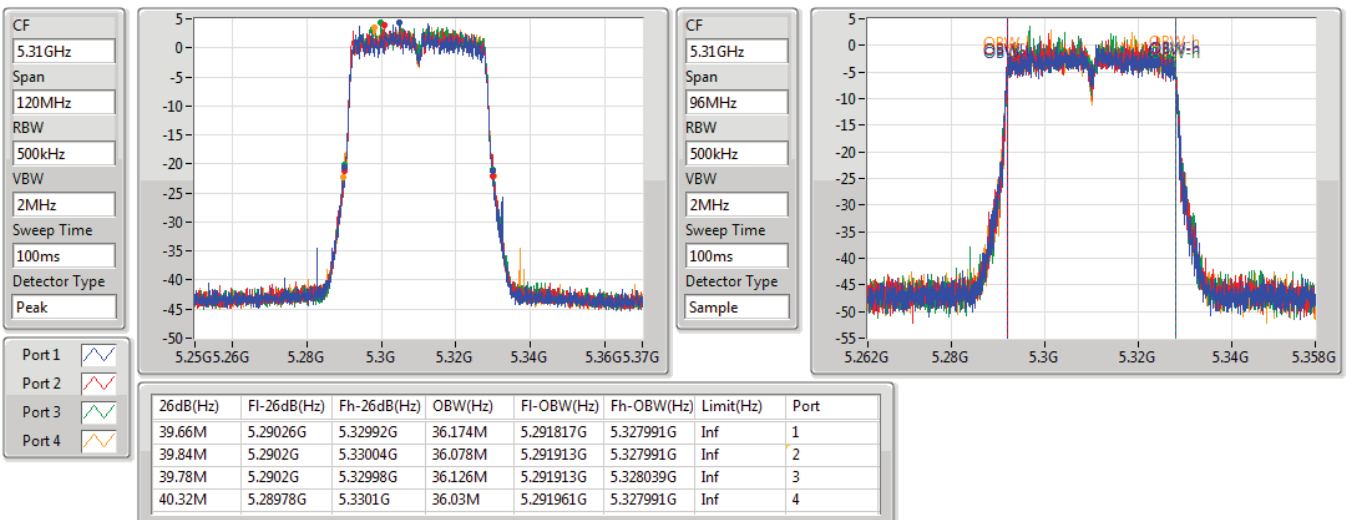


802.11ax HEW40-BF_Nss1,(MCS0)_4TX

EBW

5310MHz

06/05/2020

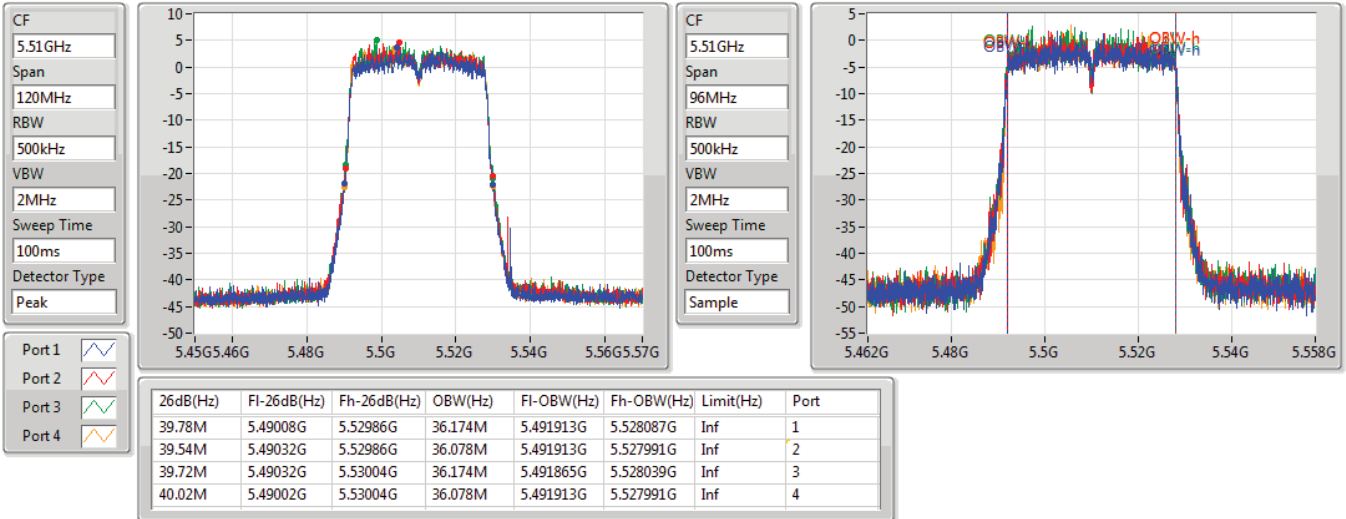


802.11ax HEW40-BF_Nss1,(MCS0)_4TX

EBW

5510MHz

06/05/2020

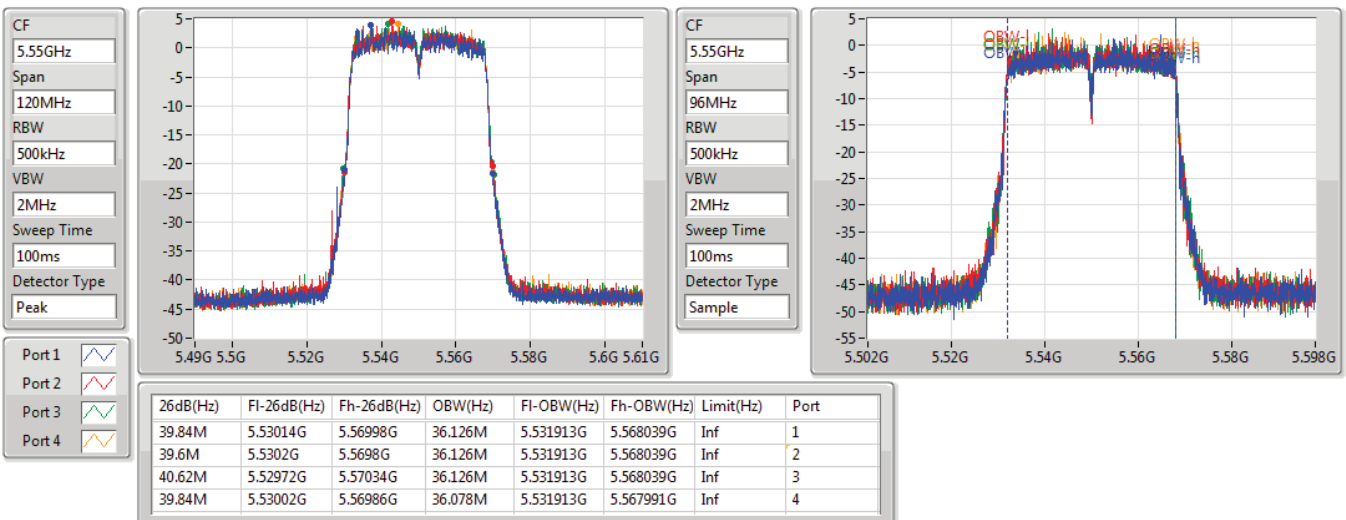


802.11ax HEW40-BF_Nss1,(MCS0)_4TX

EBW

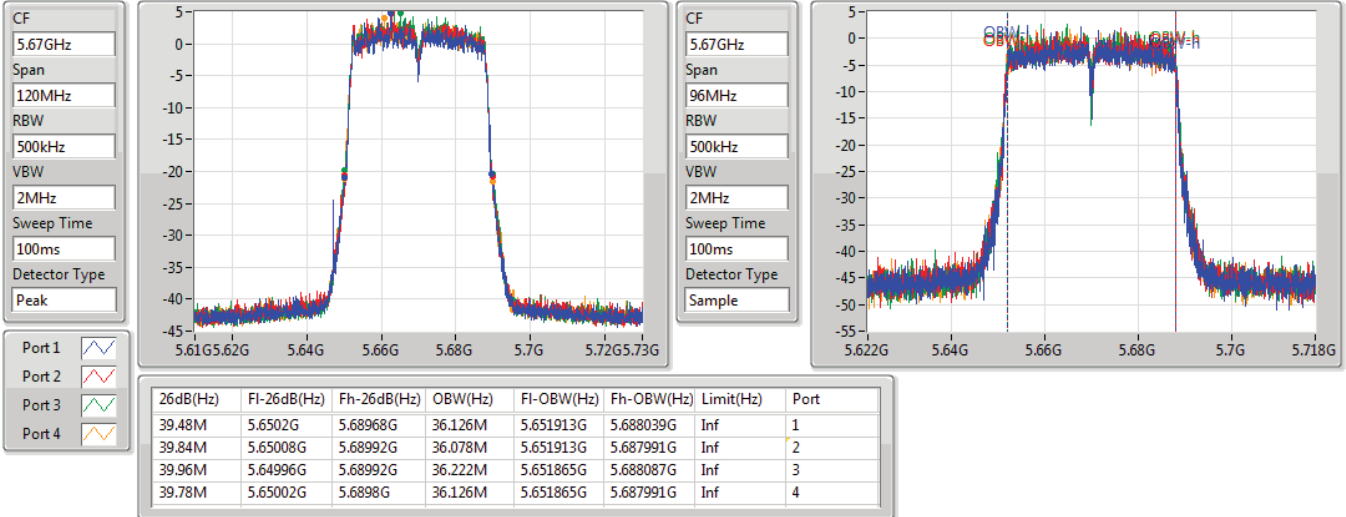
5550MHz

06/05/2020

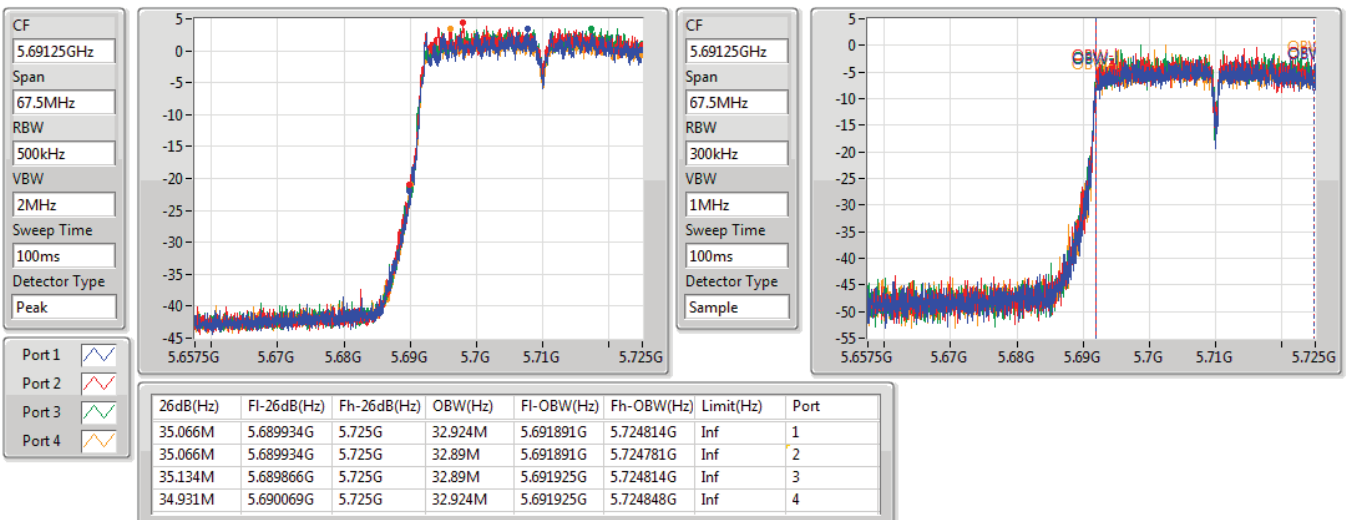


802.11ax HEW40-BF_Nss1,(MCS0)_4TX
EBW
5670MHz

06/05/2020

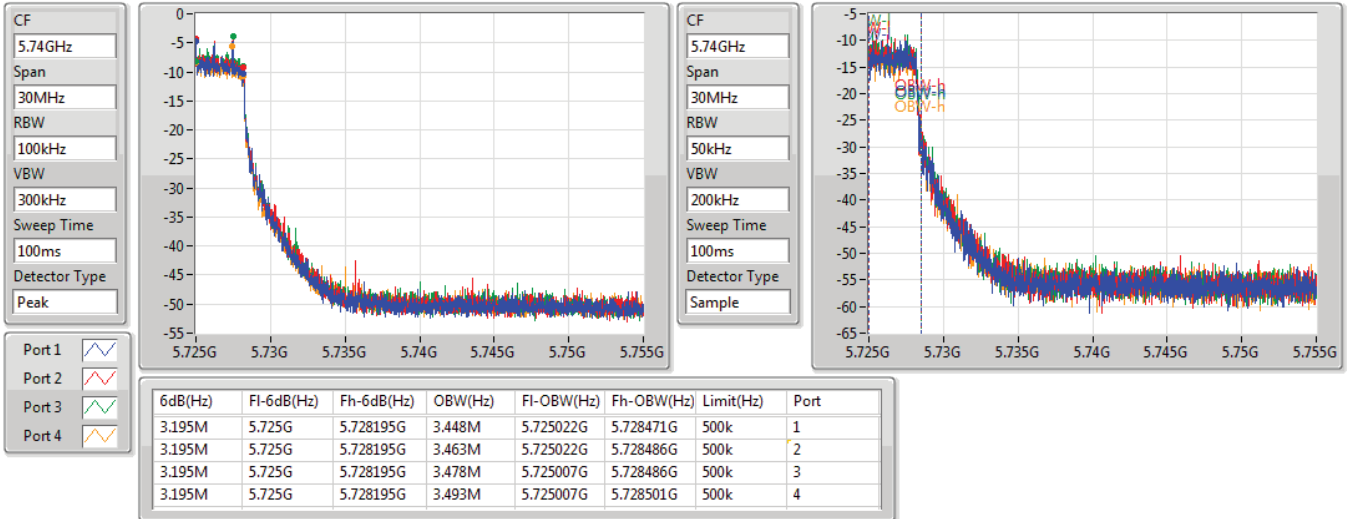

802.11ax HEW40-BF_Nss1,(MCS0)_4TX
EBW
5710MHz Straddle 5.47-5.725GHz

06/05/2020

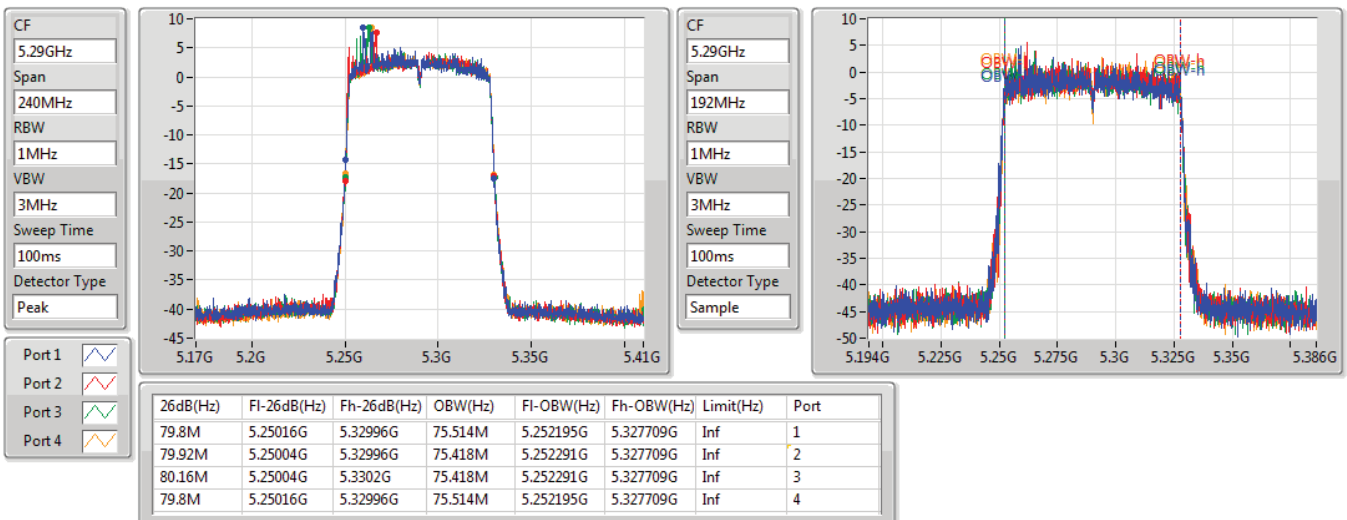


802.11ax HEW40-BF_Nss1,(MCS0)_4TX
EBW
5710MHz Straddle 5.725-5.85GHz

06/05/2020


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

13/05/2020

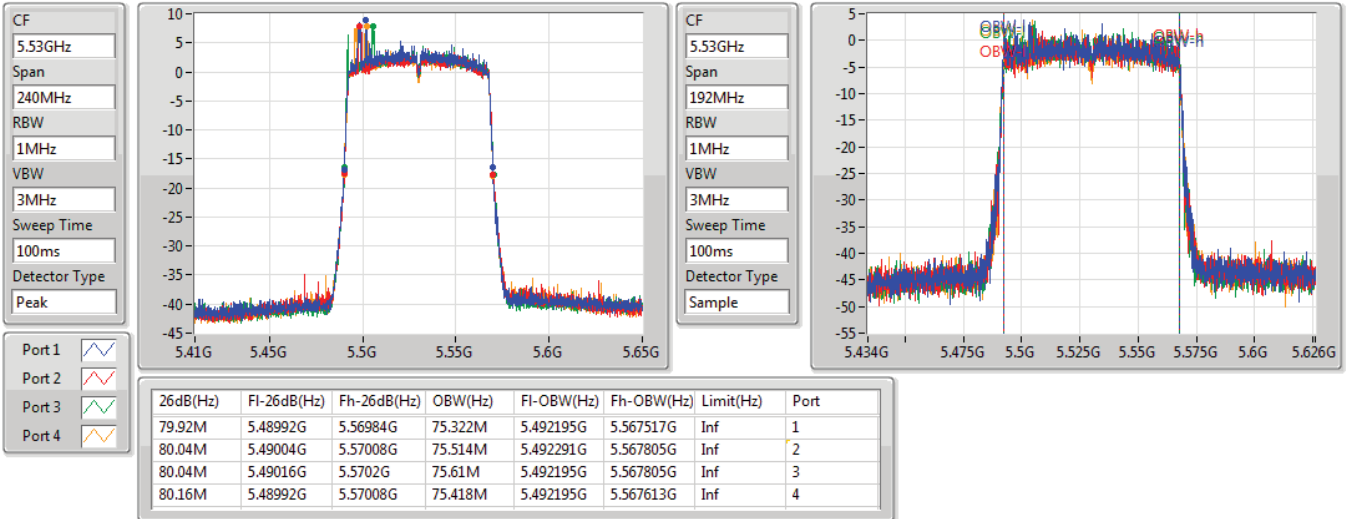


802.11ax HEW80-BF_Nss1,(MCS0)_4TX

EBW

5530MHz

13/05/2020

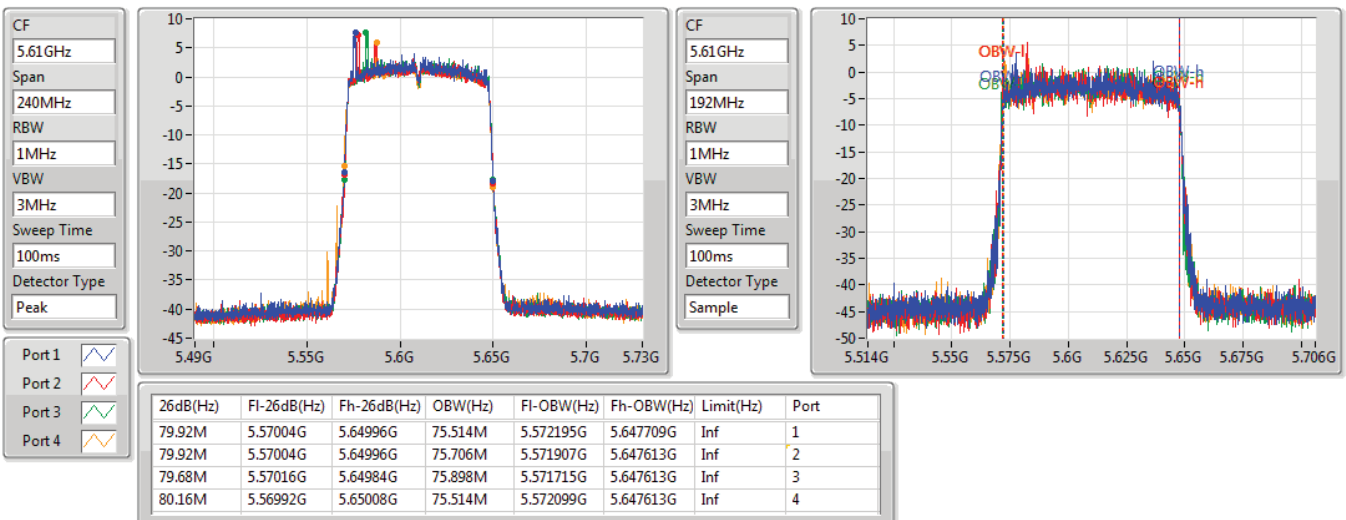


802.11ax HEW80-BF_Nss1,(MCS0)_4TX

EBW

5610MHz

13/05/2020

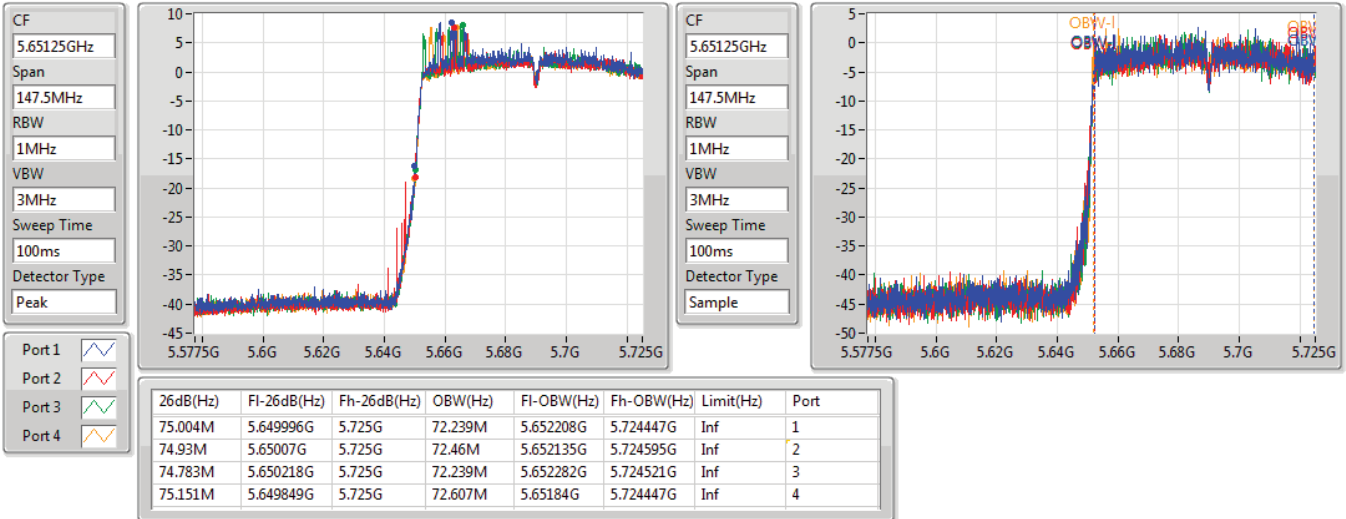


802.11ax HEW80-BF_Nss1,(MCS0)_4TX

EBW

5690MHz Straddle 5.47-5.725GHz

13/05/2020

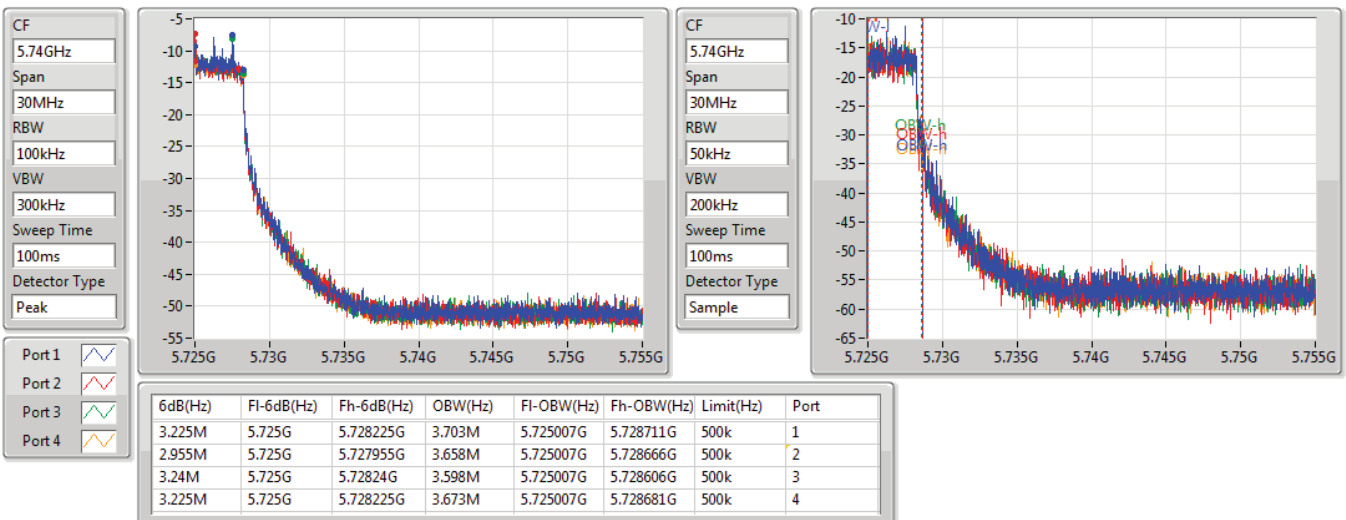


802.11ax HEW80-BF_Nss1,(MCS0)_4TX

EBW

5690MHz Straddle 5.725-5.85GHz

13/05/2020



**Summary**

Mode	Total Power (dBm)	Total Power (W)	EIRP (dBm)	EIRP (W)
5.25-5.35GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	18.00	0.06310	23.90	0.24547
802.11ac VHT20_Nss1,(MCS0)_4TX	18.38	0.06887	24.28	0.26792
802.11ac VHT40_Nss1,(MCS0)_4TX	21.19	0.13152	27.09	0.51168
802.11ac VHT80_Nss1,(MCS0)_4TX	19.59	0.09099	25.49	0.35400
802.11ax HEW20_Nss1,(MCS0)_4TX	18.54	0.07145	24.44	0.27797
802.11ax HEW40_Nss1,(MCS0)_4TX	21.48	0.14060	27.38	0.54702
802.11ax HEW80_Nss1,(MCS0)_4TX	19.77	0.09484	25.67	0.36898
5.47-5.725GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	17.92	0.06194	23.82	0.24099
802.11ac VHT20_Nss1,(MCS0)_4TX	18.37	0.06871	24.27	0.26730
802.11ac VHT40_Nss1,(MCS0)_4TX	21.32	0.13552	27.22	0.52723
802.11ac VHT80_Nss1,(MCS0)_4TX	23.27	0.21232	29.17	0.82604
802.11ax HEW20_Nss1,(MCS0)_4TX	18.64	0.07311	24.54	0.28445
802.11ax HEW40_Nss1,(MCS0)_4TX	21.54	0.14256	27.44	0.55463
802.11ax HEW80_Nss1,(MCS0)_4TX	23.51	0.22439	29.41	0.87297
5.725-5.85GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	11.03	0.01268	16.93	0.04932
802.11ac VHT20_Nss1,(MCS0)_4TX	11.29	0.01346	17.19	0.05236
802.11ac VHT40_Nss1,(MCS0)_4TX	10.19	0.01045	16.09	0.04064
802.11ac VHT80_Nss1,(MCS0)_4TX	7.85	0.00610	13.75	0.02371
802.11ax HEW20_Nss1,(MCS0)_4TX	12.17	0.01648	18.07	0.06412
802.11ax HEW40_Nss1,(MCS0)_4TX	10.99	0.01256	16.89	0.04887
802.11ax HEW80_Nss1,(MCS0)_4TX	8.99	0.00793	14.89	0.03083

**Result**

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Port 3 (dBm)	Port 4 (dBm)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
802.11a_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-	-	-
5260MHz	Pass	5.90	11.51	11.73	11.85	12.22	17.86	23.86	23.76	29.86
5300MHz	Pass	5.90	11.98	11.87	11.95	12.08	17.99	23.85	23.89	29.85
5320MHz	Pass	5.90	11.98	11.93	11.96	12.04	18.00	23.85	23.90	29.85
5500MHz	Pass	5.90	11.32	12.10	11.85	12.13	17.88	23.86	23.78	29.86
5580MHz	Pass	5.90	11.71	11.83	11.73	12.06	17.86	23.87	23.76	29.87
5700MHz	Pass	5.90	12.34	11.85	11.66	11.70	17.92	23.87	23.82	29.87
5720MHz Straddle 5.47-5.725GHz	Pass	5.90	11.68	11.13	11.41	11.45	17.44	22.62	23.34	28.62
5720MHz Straddle 5.725-5.85GHz	Pass	5.90	4.90	5.38	4.78	4.95	11.03	30.00	16.93	36.00
802.11ac VHT20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5260MHz	Pass	5.90	11.94	12.28	12.41	12.75	18.38	23.98	24.28	30.00
5300MHz	Pass	5.90	11.78	12.07	12.21	12.10	18.06	23.98	23.96	30.00
5320MHz	Pass	5.90	11.84	11.97	11.95	12.04	17.97	23.98	23.87	30.00
5500MHz	Pass	5.90	12.36	12.52	12.23	12.29	18.37	23.98	24.27	30.00
5580MHz	Pass	5.90	12.24	12.23	12.11	12.55	18.31	23.98	24.21	30.00
5700MHz	Pass	5.90	12.15	11.94	11.47	11.59	17.82	23.98	23.72	30.00
5720MHz Straddle 5.47-5.725GHz	Pass	5.90	11.47	11.17	11.09	11.06	17.22	22.79	23.12	28.79
5720MHz Straddle 5.725-5.85GHz	Pass	5.90	5.32	5.10	5.41	5.26	11.29	30.00	17.19	36.00
802.11ac VHT40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5270MHz	Pass	5.90	14.75	15.23	15.34	15.35	21.19	23.98	27.09	30.00
5310MHz	Pass	5.90	14.84	15.21	14.95	14.71	20.95	23.98	26.85	30.00
5510MHz	Pass	5.90	14.77	14.92	14.97	15.07	20.95	23.98	26.85	30.00
5550MHz	Pass	5.90	15.48	15.17	15.20	15.35	21.32	23.98	27.22	30.00
5670MHz	Pass	5.90	14.68	14.58	14.85	14.59	20.70	23.98	26.60	30.00
5710MHz Straddle 5.47-5.725GHz	Pass	5.90	15.21	15.04	15.12	14.78	21.06	23.98	26.96	30.00
5710MHz Straddle 5.725-5.85GHz	Pass	5.90	4.32	4.20	4.43	3.68	10.19	30.00	16.09	36.00
802.11ac VHT80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5290MHz	Pass	5.90	13.28	13.61	13.93	13.42	19.59	23.98	25.49	30.00
5530MHz	Pass	5.90	14.84	14.72	14.84	15.17	20.92	23.98	26.82	30.00
5610MHz	Pass	5.90	16.97	17.22	17.44	17.35	23.27	23.98	29.17	30.00
5690MHz Straddle 5.47-5.725GHz	Pass	5.90	16.95	16.96	16.92	16.68	22.90	23.98	28.80	30.00
5690MHz Straddle 5.725-5.85GHz	Pass	5.90	1.82	1.95	2.12	1.40	7.85	30.00	13.75	36.00
802.11ax HEW20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5260MHz	Pass	5.90	12.15	12.42	12.55	12.93	18.54	23.98	24.44	30.00
5300MHz	Pass	5.90	12.16	12.24	12.41	12.03	18.23	23.98	24.13	30.00
5320MHz	Pass	5.90	12.15	12.11	12.28	12.14	18.19	23.98	24.09	30.00
5500MHz	Pass	5.90	12.58	12.76	12.48	12.66	18.64	23.98	24.54	30.00
5580MHz	Pass	5.90	12.52	12.50	12.46	12.50	18.52	23.98	24.42	30.00
5700MHz	Pass	5.90	13.10	12.46	12.41	12.31	18.60	23.98	24.50	30.00
5720MHz Straddle 5.47-5.725GHz	Pass	5.90	11.72	11.70	11.68	11.78	17.74	22.88	23.64	28.88
5720MHz Straddle 5.725-5.85GHz	Pass	5.90	5.84	6.28	6.35	6.10	12.17	30.00	18.07	36.00
802.11ax HEW40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5270MHz	Pass	5.90	14.98	15.42	15.41	13.84	20.98	23.98	26.88	30.00
5310MHz	Pass	5.90	15.39	15.74	15.47	15.23	21.48	23.98	27.38	30.00



Average Power_Non-Beamforming_Radio 1_4T1S

Appendix B.1

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Port 3 (dBm)	Port 4 (dBm)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
5510MHz	Pass	5.90	15.24	15.56	15.58	15.69	21.54	23.98	27.44	30.00
5550MHz	Pass	5.90	15.65	15.20	15.21	15.46	21.40	23.98	27.30	30.00
5670MHz	Pass	5.90	15.13	15.27	15.41	15.26	21.29	23.98	27.19	30.00
5710MHz Straddle 5.47-5.725GHz	Pass	5.90	15.23	15.13	15.11	14.81	21.09	23.98	26.99	30.00
5710MHz Straddle 5.725-5.85GHz	Pass	5.90	5.18	5.02	5.19	4.44	10.99	30.00	16.89	36.00
802.11ax HEW80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5290MHz	Pass	5.90	13.40	13.82	14.05	13.71	19.77	23.98	25.67	30.00
5530MHz	Pass	5.90	15.37	15.09	15.23	15.46	21.31	23.98	27.21	30.00
5610MHz	Pass	5.90	17.21	17.50	17.49	17.73	23.51	23.98	29.41	30.00
5690MHz Straddle 5.47-5.725GHz	Pass	5.90	17.16	17.18	17.15	16.92	23.12	23.98	29.02	30.00
5690MHz Straddle 5.725-5.85GHz	Pass	5.90	3.02	3.07	3.22	2.56	8.99	30.00	14.89	36.00

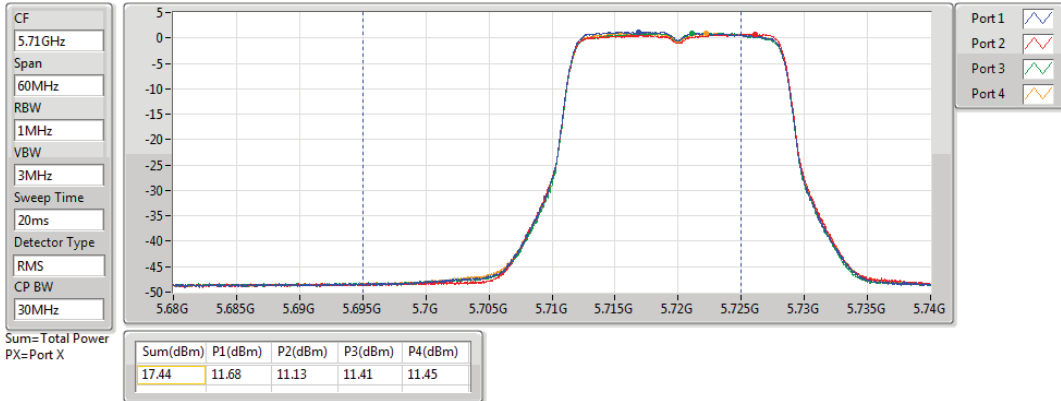
DG = Directional Gain; **Port X** = Port X output power

802.11a_Nss1,(6Mbps)_4TX

AV Power

5720MHz Straddle 5.47-5.725GHz_TnomVnom

28/04/2020

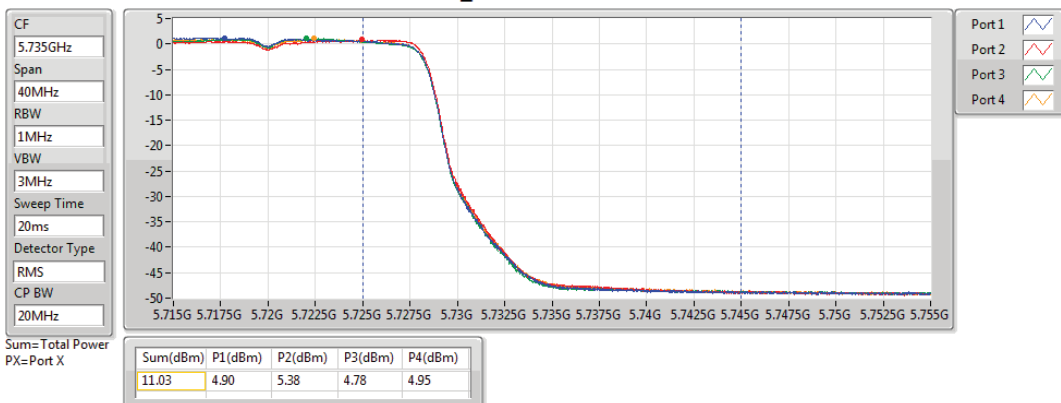


802.11a_Nss1,(6Mbps)_4TX

AV Power

5720MHz Straddle 5.725-5.85GHz_TnomVnom

28/04/2020

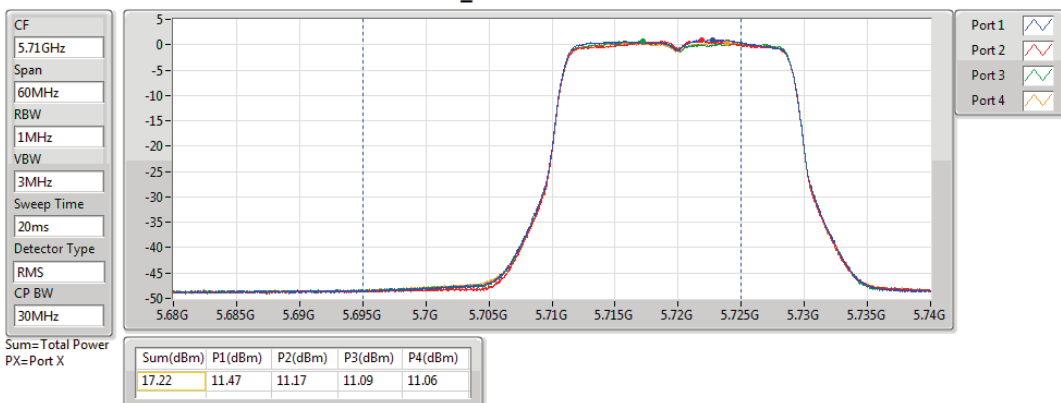


802.11ac VHT20_Nss1,(MCS0)_4TX

AV Power

5720MHz Straddle 5.47-5.725GHz_TnomVnom

28/04/2020

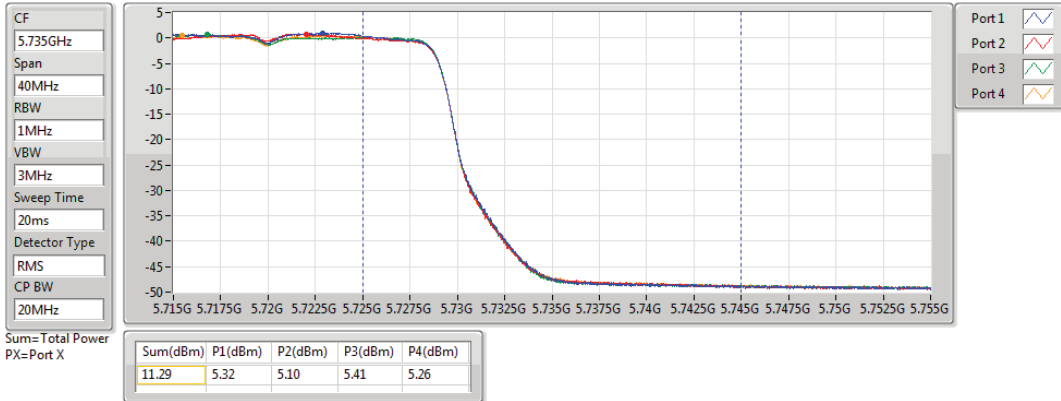


802.11ac VHT20_Nss1,(MCS0)_4TX

AV Power

5720MHz Straddle 5.725-5.85GHz_TnomVnom

28/04/2020

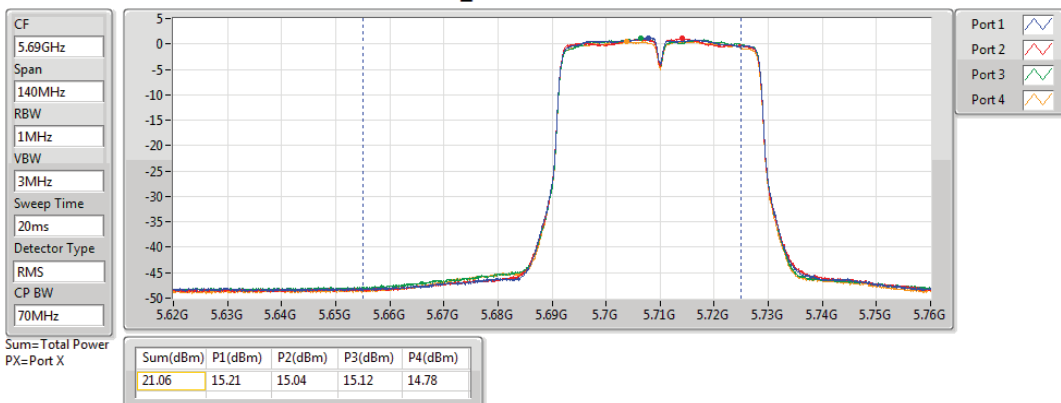


802.11ac VHT40_Nss1,(MCS0)_4TX

AV Power

5710MHz Straddle 5.47-5.725GHz_TnomVnom

28/04/2020

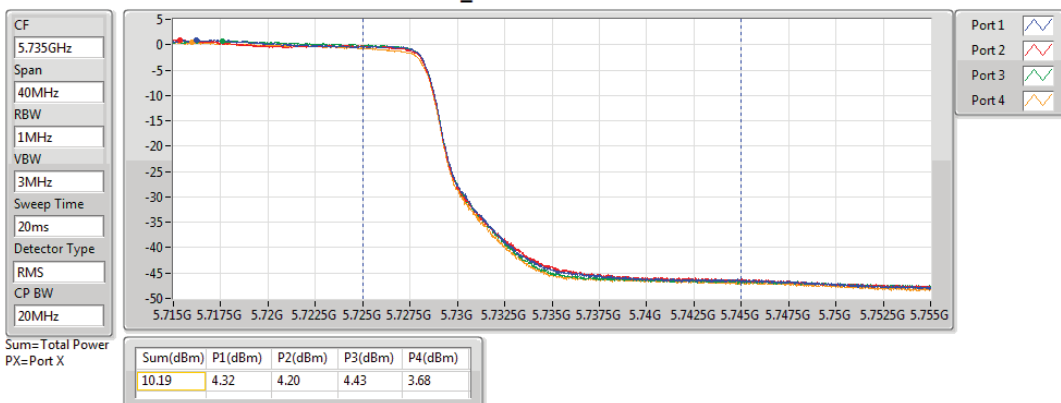


802.11ac VHT40_Nss1,(MCS0)_4TX

AV Power

5710MHz Straddle 5.725-5.85GHz_TnomVnom

28/04/2020

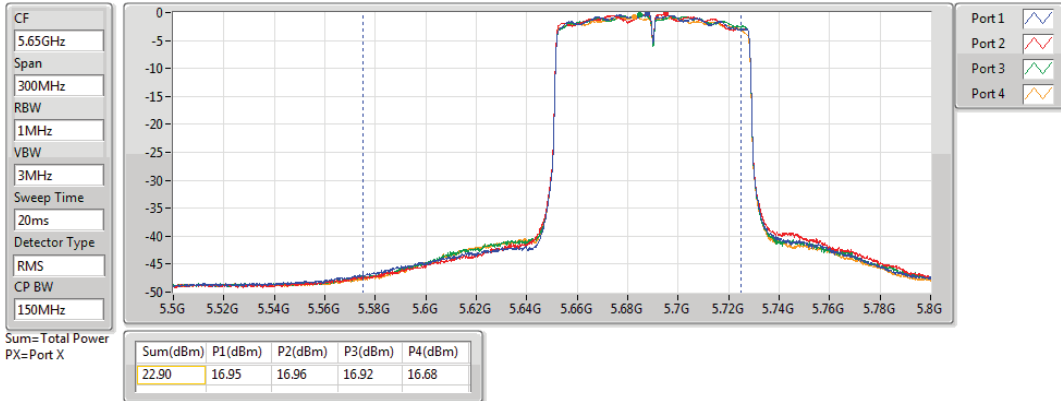


802.11ac VHT80_Nss1,(MCS0)_4TX

AV Power

5690MHz Straddle 5.47-5.725GHz_TnomVnom

28/04/2020

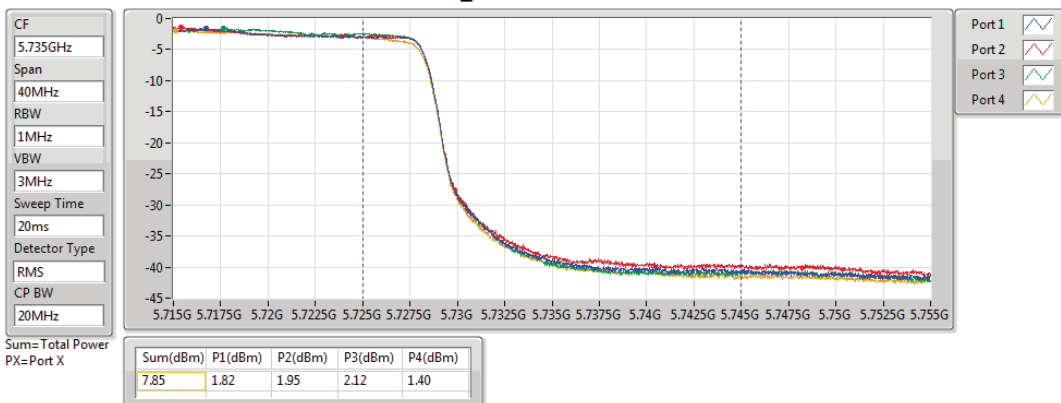


802.11ac VHT80_Nss1,(MCS0)_4TX

AV Power

5690MHz Straddle 5.725-5.85GHz_TnomVnom

28/04/2020

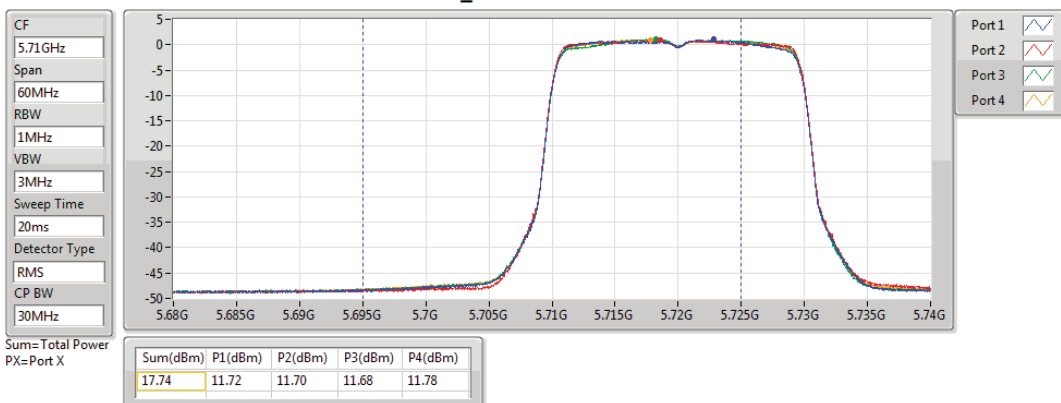


802.11ax HEW20_Nss1,(MCS0)_4TX

AV Power

5720MHz Straddle 5.47-5.725GHz_TnomVnom

28/04/2020

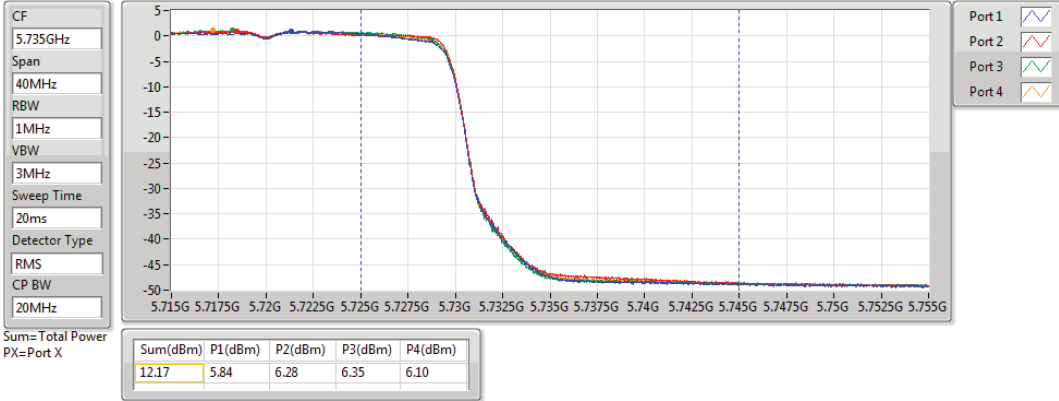


802.11ax HEW20_Nss1,(MCS0)_4TX

AV Power

5720MHz Straddle 5.725-5.85GHz_TnomVnom

28/04/2020

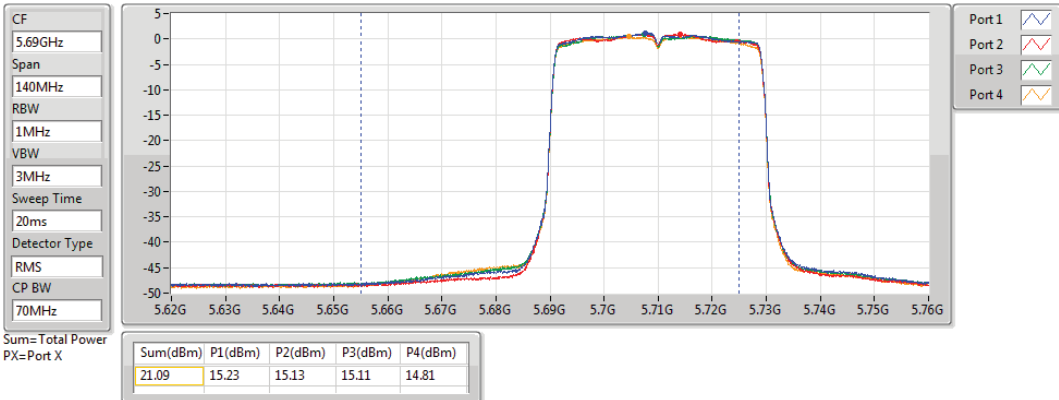


802.11ax HEW40_Nss1,(MCS0)_4TX

AV Power

5710MHz Straddle 5.47-5.725GHz_TnomVnom

28/04/2020

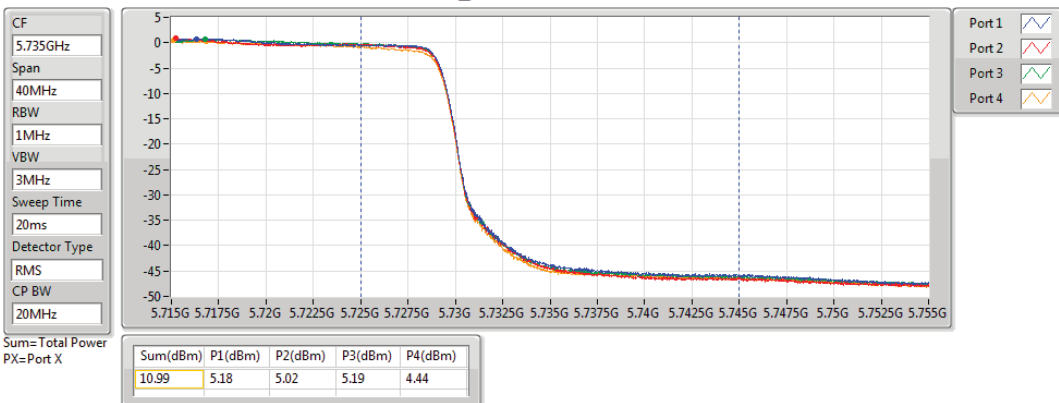


802.11ax HEW40_Nss1,(MCS0)_4TX

AV Power

5710MHz Straddle 5.725-5.85GHz_TnomVnom

28/04/2020

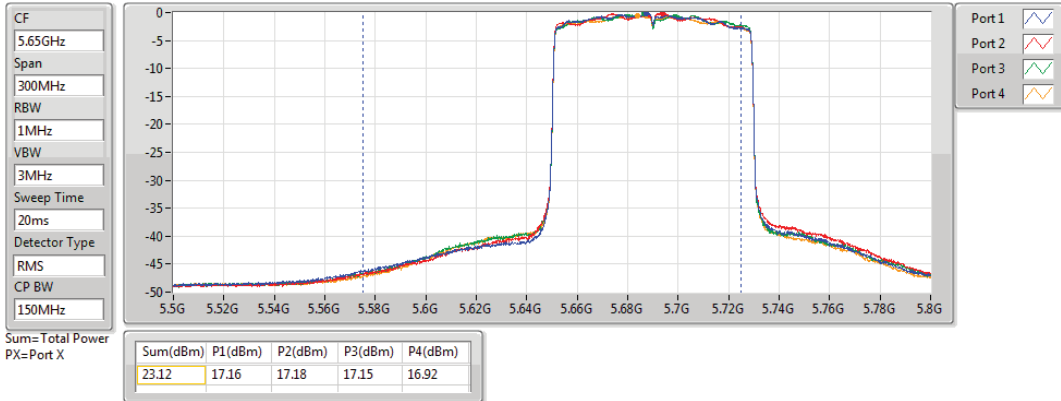


802.11ax HEW80_Nss1,(MCS0)_4TX

AV Power

5690MHz Straddle 5.47-5.725GHz_TnomVnom

28/04/2020

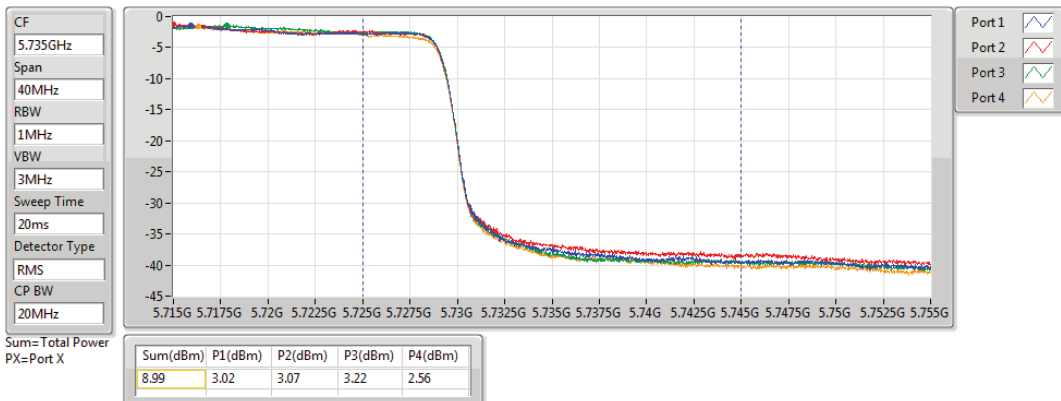


802.11ax HEW80_Nss1,(MCS0)_4TX

AV Power

5690MHz Straddle 5.725-5.85GHz_TnomVnom

28/04/2020



**Summary**

Mode	Total Power (dBm)	Total Power (W)	EIRP (dBm)	EIRP (W)
5.25-5.35GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	16.42	0.04385	22.62	0.18281
802.11ac VHT20_Nss1,(MCS0)_1TX	16.42	0.04385	22.62	0.18281
802.11ac VHT40_Nss1,(MCS0)_1TX	16.37	0.04335	22.57	0.18072
802.11ac VHT80_Nss1,(MCS0)_1TX	7.77	0.00598	13.97	0.02495
5.47-5.725GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	14.99	0.03155	21.19	0.13152
802.11ac VHT20_Nss1,(MCS0)_1TX	14.89	0.03083	21.09	0.12853
802.11ac VHT40_Nss1,(MCS0)_1TX	15.11	0.03243	21.31	0.13521
802.11ac VHT80_Nss1,(MCS0)_1TX	14.46	0.02793	20.66	0.11641
5.725-5.85GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	5.94	0.00393	12.14	0.01637
802.11ac VHT20_Nss1,(MCS0)_1TX	5.96	0.00394	12.16	0.01644
802.11ac VHT40_Nss1,(MCS0)_1TX	2.93	0.00196	9.13	0.00818
802.11ac VHT80_Nss1,(MCS0)_1TX	-1.15	0.00077	5.05	0.00320



Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
802.11a_Nss1,(6Mbps)_1TX	-	-	-	-	-	-	-
5260MHz	Pass	6.20	16.42	16.42	23.78	22.62	30.00
5300MHz	Pass	6.20	15.91	15.91	23.78	22.11	30.00
5320MHz	Pass	6.20	15.6	15.60	23.78	21.80	30.00
5500MHz	Pass	6.20	14.43	14.43	23.78	20.63	30.00
5580MHz	Pass	6.20	14.99	14.99	23.78	21.19	30.00
5700MHz	Pass	6.20	13.57	13.57	23.78	19.77	30.00
5720MHz Straddle 5.47-5.725GHz	Pass	6.20	12.04	12.04	23.78	18.24	30.00
5720MHz Straddle 5.725-5.85GHz	Pass	6.20	5.94	5.94	29.80	12.14	36.00
802.11ac VHT20_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-
5260MHz	Pass	6.20	16.42	16.42	23.78	22.62	30.00
5300MHz	Pass	6.20	15.84	15.84	23.78	22.04	30.00
5320MHz	Pass	6.20	15.53	15.53	23.78	21.73	30.00
5500MHz	Pass	6.20	14.35	14.35	23.78	20.55	30.00
5580MHz	Pass	6.20	14.89	14.89	23.78	21.09	30.00
5700MHz	Pass	6.20	13.3	13.30	23.78	19.50	30.00
5720MHz Straddle 5.47-5.725GHz	Pass	6.20	11.54	11.54	23.78	17.74	30.00
5720MHz Straddle 5.725-5.85GHz	Pass	6.20	5.96	5.96	29.80	12.16	36.00
802.11ac VHT40_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-
5270MHz	Pass	6.20	16.37	16.37	23.78	22.57	30.00
5310MHz	Pass	6.20	10.7	10.70	23.78	16.90	30.00
5510MHz	Pass	6.20	10.76	10.76	23.78	16.96	30.00
5550MHz	Pass	6.20	15.11	15.11	23.78	21.31	30.00
5670MHz	Pass	6.20	13.78	13.78	23.78	19.98	30.00
5710MHz Straddle 5.47-5.725GHz	Pass	6.20	13.20	13.20	23.78	19.40	30.00
5710MHz Straddle 5.725-5.85GHz	Pass	6.20	2.93	2.93	29.80	9.13	36.00
802.11ac VHT80_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-
5290MHz	Pass	6.20	7.77	7.77	23.78	13.97	30.00
5530MHz	Pass	6.20	9	9.00	23.78	15.20	30.00
5610MHz	Pass	6.20	14.46	14.46	23.78	20.66	30.00
5690MHz Straddle 5.47-5.725GHz	Pass	6.20	13.19	13.19	23.78	19.39	30.00
5690MHz Straddle 5.725-5.85GHz	Pass	6.20	-1.15	-1.15	29.80	5.05	36.00

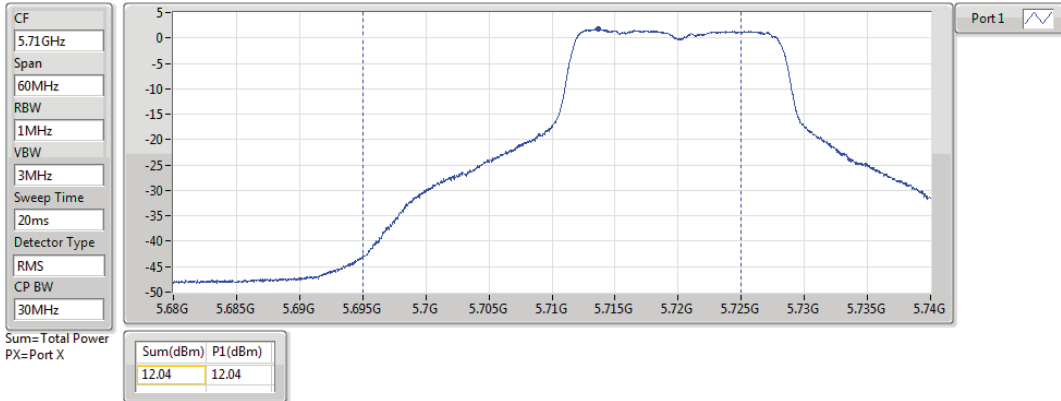
DG = Directional Gain; **Port X** = Port X output power

802.11a_Nss1,(6Mbps)_1TX

AV Power

5720MHz Straddle 5.47-5.725GHz_TnomVnom

18/04/2020

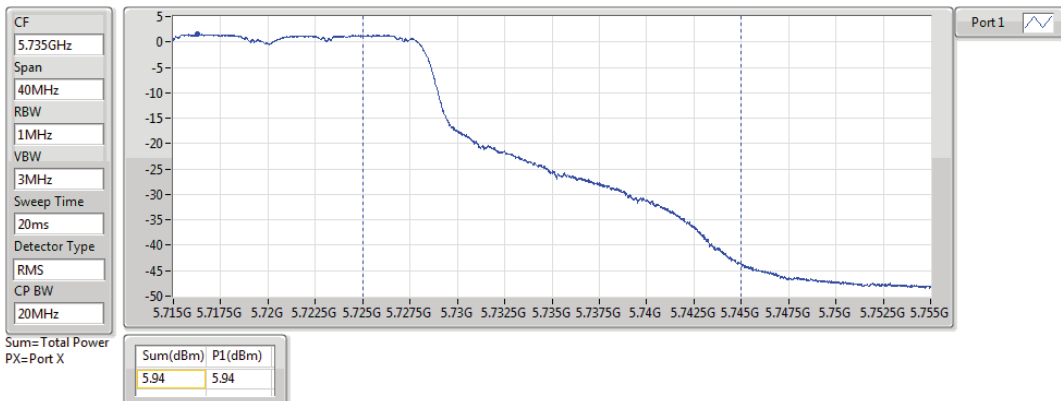


802.11a_Nss1,(6Mbps)_1TX

AV Power

5720MHz Straddle 5.725-5.85GHz_TnomVnom

18/04/2020

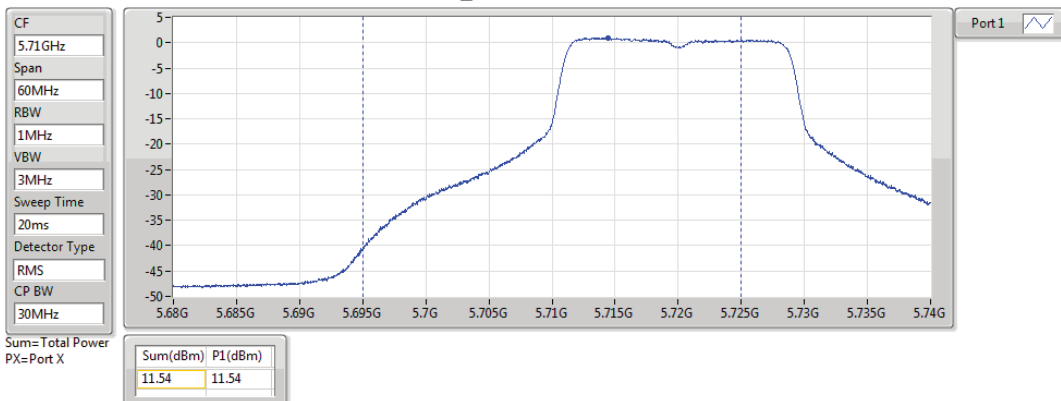


802.11ac VHT20_Nss1,(MCS0)_1TX

AV Power

5720MHz Straddle 5.47-5.725GHz_TnomVnom

18/04/2020

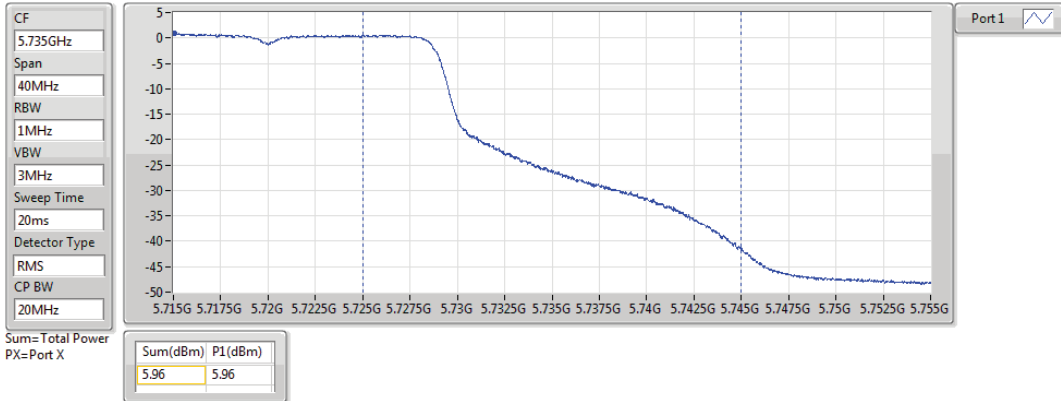


802.11ac VHT20_Nss1,(MCS0)_1TX

AV Power

5720MHz Straddle 5.725-5.85GHz_TnomVnom

18/04/2020

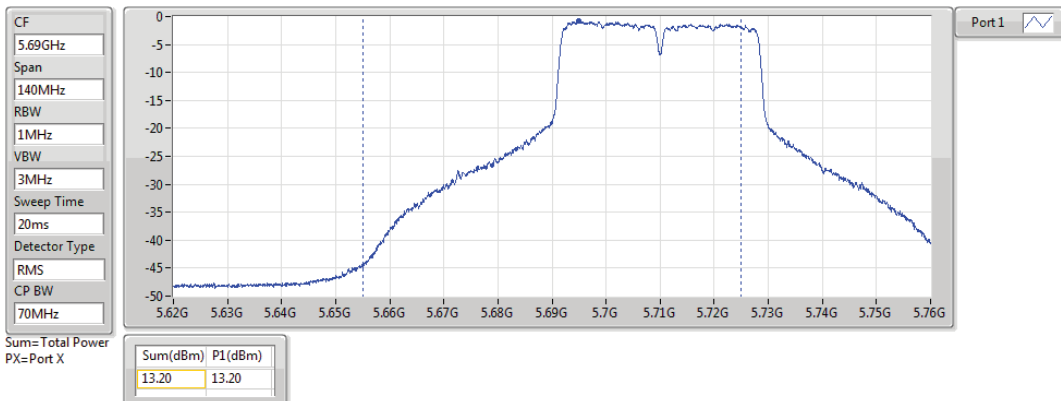


802.11ac VHT40_Nss1,(MCS0)_1TX

AV Power

5710MHz Straddle 5.47-5.725GHz_TnomVnom

13/05/2020

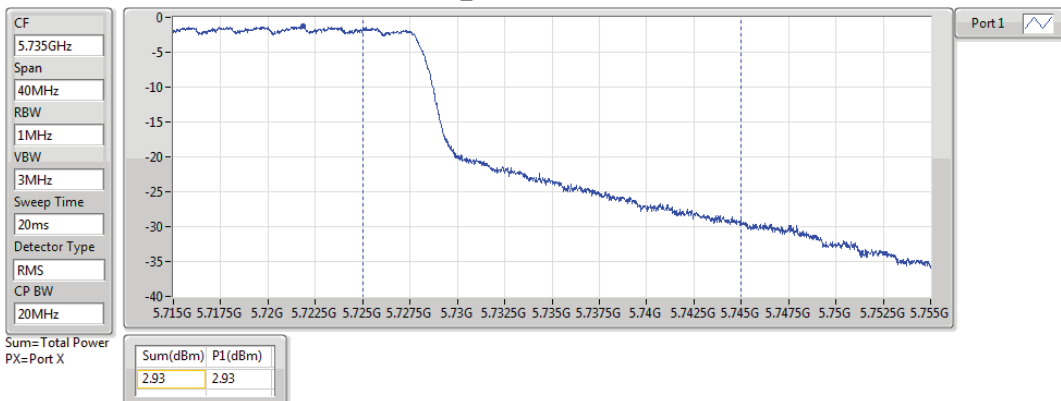


802.11ac VHT40_Nss1,(MCS0)_1TX

AV Power

5710MHz Straddle 5.725-5.85GHz_TnomVnom

13/05/2020

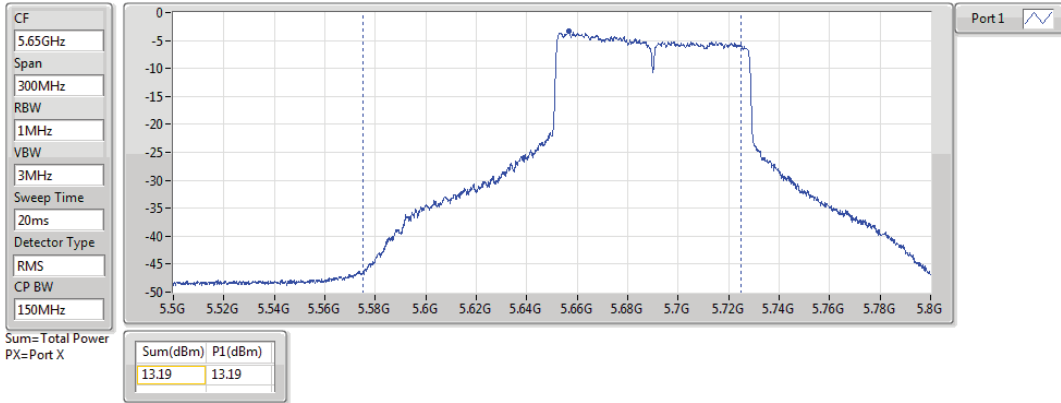


802.11ac VHT80_Nss1,(MCS0)_1TX

AV Power

5690MHz Straddle 5.47-5.725GHz_TnomVnom

13/05/2020

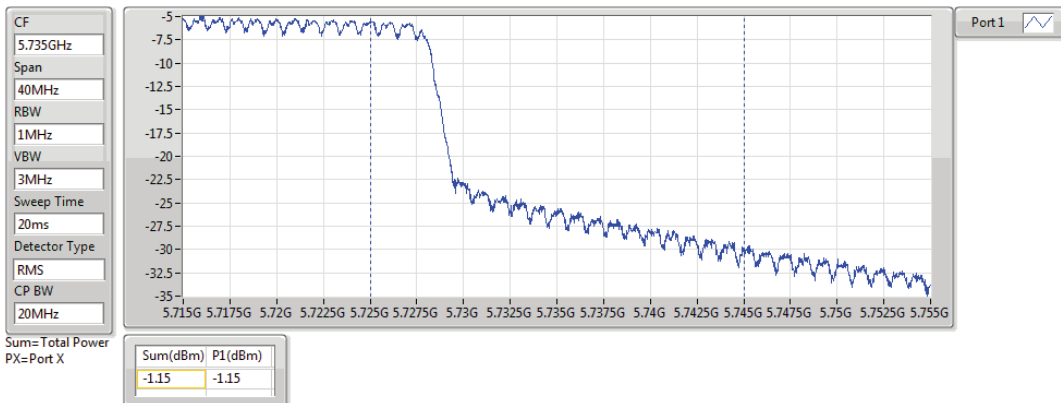


802.11ac VHT80_Nss1,(MCS0)_1TX

AV Power

5690MHz Straddle 5.725-5.85GHz_TnomVnom

13/05/2020



**Summary**

Mode	Total Power (dBm)	Total Power (W)	EIRP (dBm)	EIRP (W)
5.25-5.35GHz	-	-	-	-
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	17.06	0.05082	28.68	0.73790
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	17.47	0.05585	29.09	0.81096
802.11ac VHT80-BF_Nss1,(MCS0)_4TX	17.47	0.05585	29.09	0.81096
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	17.11	0.05140	28.73	0.74645
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	17.55	0.05689	29.17	0.82604
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	17.78	0.05998	29.40	0.87096
5.47-5.725GHz	-	-	-	-
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	17.26	0.05321	28.88	0.77268
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	17.44	0.05546	29.06	0.80538
802.11ac VHT80-BF_Nss1,(MCS0)_4TX	17.04	0.05058	28.66	0.73451
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	17.34	0.05420	28.96	0.78705
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	17.58	0.05728	29.20	0.83176
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	17.69	0.05875	29.31	0.85310
5.725-5.85GHz	-	-	-	-
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	8.87	0.00771	20.49	0.11194
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	5.84	0.00384	17.46	0.05572
802.11ac VHT80-BF_Nss1,(MCS0)_4TX	2.04	0.00160	13.66	0.02323
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	9.80	0.00955	21.42	0.13868
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	5.88	0.00387	17.50	0.05623
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	2.14	0.00164	13.76	0.02377

**Result**

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Port 3 (dBm)	Port 4 (dBm)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5260MHz	Pass	11.62	10.56	10.88	11.42	11.11	17.02	18.36	28.64	30.00
5300MHz	Pass	11.62	10.37	10.88	11.51	11.14	17.02	18.36	28.64	30.00
5320MHz	Pass	11.62	10.52	11.17	11.53	10.88	17.06	18.36	28.68	30.00
5500MHz	Pass	11.62	10.77	11.24	11.75	11.14	17.26	18.36	28.88	30.00
5580MHz	Pass	11.62	10.62	11.06	11.20	10.42	16.86	18.36	28.48	30.00
5700MHz	Pass	11.62	10.72	11.30	11.51	10.80	17.12	18.36	28.74	30.00
5720MHz Straddle 5.47-5.725GHz	Pass	11.62	8.68	9.08	9.15	8.41	14.86	17.15	26.48	28.77
5720MHz Straddle 5.725-5.85GHz	Pass	11.62	2.53	2.99	3.37	2.46	8.87	24.38	20.49	36.00
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5270MHz	Pass	11.62	11.05	11.36	11.80	11.51	17.46	18.36	29.08	30.00
5310MHz	Pass	11.62	11.02	11.43	11.64	11.69	17.47	18.36	29.09	30.00
5510MHz	Pass	11.62	11.16	11.56	11.33	11.62	17.44	18.36	29.06	30.00
5550MHz	Pass	11.62	10.59	11.40	11.50	11.33	17.24	18.36	28.86	30.00
5670MHz	Pass	11.62	10.87	11.48	11.80	11.08	17.34	18.36	28.96	30.00
5710MHz Straddle 5.47-5.725GHz	Pass	11.62	10.44	10.98	11.16	10.47	16.79	18.36	28.41	30.00
5710MHz Straddle 5.725-5.85GHz	Pass	11.62	-0.38	-0.01	0.31	-0.70	5.84	24.38	17.46	36.00
802.11ac VHT80-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5290MHz	Pass	11.62	11.38	11.42	11.46	11.55	17.47	18.36	29.09	30.00
5530MHz	Pass	11.62	11.17	10.91	11.05	10.93	17.04	18.36	28.66	30.00
5610MHz	Pass	11.62	10.28	10.45	10.33	10.33	16.37	18.36	27.99	30.00
5690MHz Straddle 5.47-5.725GHz	Pass	11.62	11.12	10.73	10.64	10.65	16.81	18.36	28.43	30.00
5690MHz Straddle 5.725-5.85GHz	Pass	11.62	-4.12	-4.14	-3.79	-3.87	2.04	24.38	13.66	36.00
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5260MHz	Pass	11.62	10.45	11.11	11.42	11.06	17.04	18.36	28.66	30.00
5300MHz	Pass	11.62	10.22	11.22	11.46	11.36	17.11	18.36	28.73	30.00
5320MHz	Pass	11.62	10.48	11.17	11.60	10.95	17.09	18.36	28.71	30.00
5500MHz	Pass	11.62	10.79	11.43	11.82	11.19	17.34	18.36	28.96	30.00
5580MHz	Pass	11.62	10.49	11.00	11.15	10.78	16.88	18.36	28.50	30.00
5700MHz	Pass	11.62	10.63	11.49	11.52	10.73	17.13	18.36	28.75	30.00
5720MHz Straddle 5.47-5.725GHz	Pass	11.62	9.54	9.88	10.19	9.58	15.83	17.19	27.45	28.81
5720MHz Straddle 5.725-5.85GHz	Pass	11.62	3.44	4.15	4.08	3.37	9.80	24.38	21.42	36.00
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5270MHz	Pass	11.62	10.97	11.42	11.88	11.46	17.47	18.36	29.09	30.00
5310MHz	Pass	11.62	11.03	11.47	11.87	11.72	17.55	18.36	29.17	30.00
5510MHz	Pass	11.62	11.10	11.64	11.91	11.54	17.58	18.36	29.20	30.00
5550MHz	Pass	11.62	11.07	11.32	11.60	11.48	17.39	18.36	29.01	30.00
5670MHz	Pass	11.62	10.83	11.56	11.75	11.31	17.40	18.36	29.02	30.00
5710MHz Straddle 5.47-5.725GHz	Pass	11.62	10.43	11.10	11.24	10.46	16.84	18.36	28.46	30.00
5710MHz Straddle 5.725-5.85GHz	Pass	11.62	-0.42	0.09	0.41	-0.71	5.88	24.38	17.50	36.00
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5290MHz	Pass	11.62	11.76	11.96	11.93	11.34	17.78	18.36	29.40	30.00
5530MHz	Pass	11.62	12.06	11.10	11.81	11.65	17.69	18.36	29.31	30.00
5610MHz	Pass	11.62	11.10	10.91	11.02	10.80	16.98	18.36	28.60	30.00



Average Power_Beamforming_Radio 1_4T1S

Appendix B.3

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Port 3 (dBm)	Port 4 (dBm)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
5690MHz Straddle 5.47-5.725GHz	Pass	11.62	10.92	10.68	11.01	10.86	16.89	18.36	28.51	30.00
5690MHz Straddle 5.725-5.85GHz	Pass	11.62	-3.71	-4.07	-3.74	-4.00	2.14	24.38	13.76	36.00

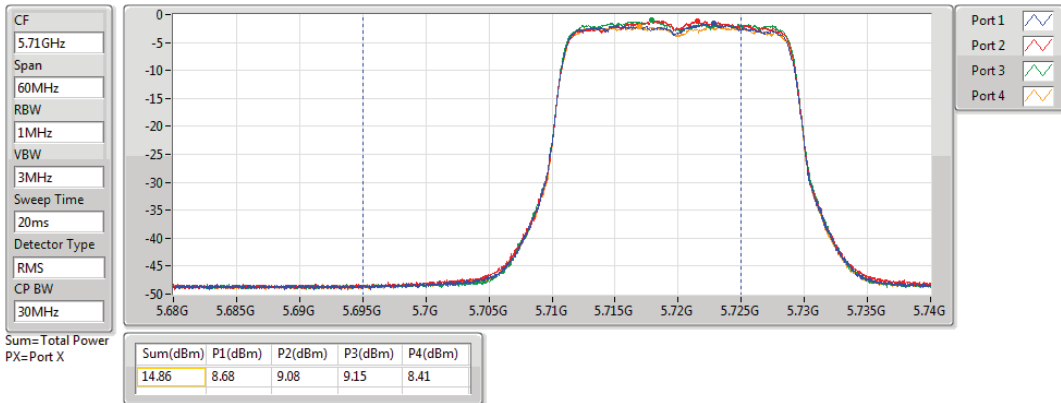
DG = Directional Gain; **Port X** = Port X output power

802.11ac VHT20-BF_Nss1,(MCS0)_4TX

AV Power

5720MHz Straddle 5.47-5.725GHz_TnomVnom

06/05/2020

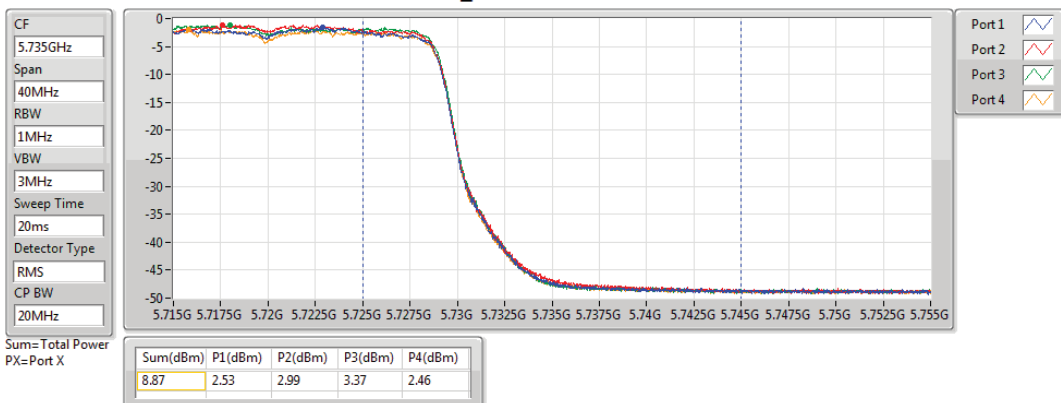


802.11ac VHT20-BF_Nss1,(MCS0)_4TX

AV Power

5720MHz Straddle 5.725-5.85GHz_TnomVnom

06/05/2020

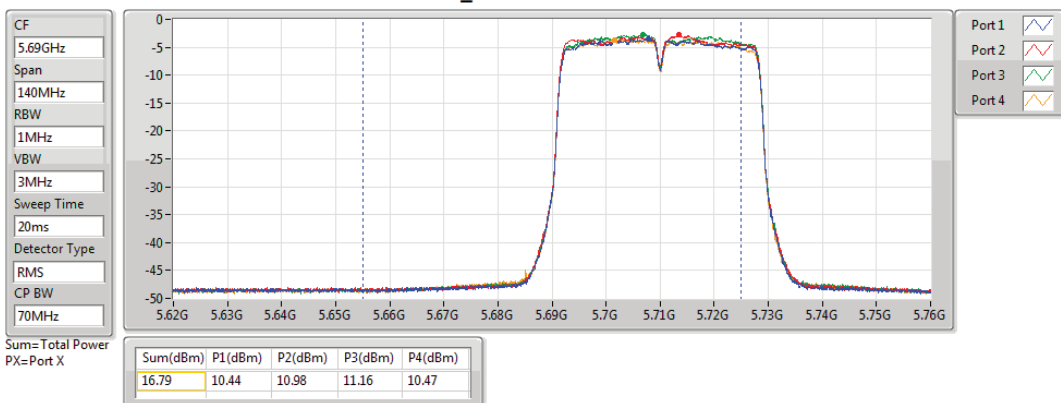


802.11ac VHT40-BF_Nss1,(MCS0)_4TX

AV Power

5710MHz Straddle 5.47-5.725GHz_TnomVnom

06/05/2020

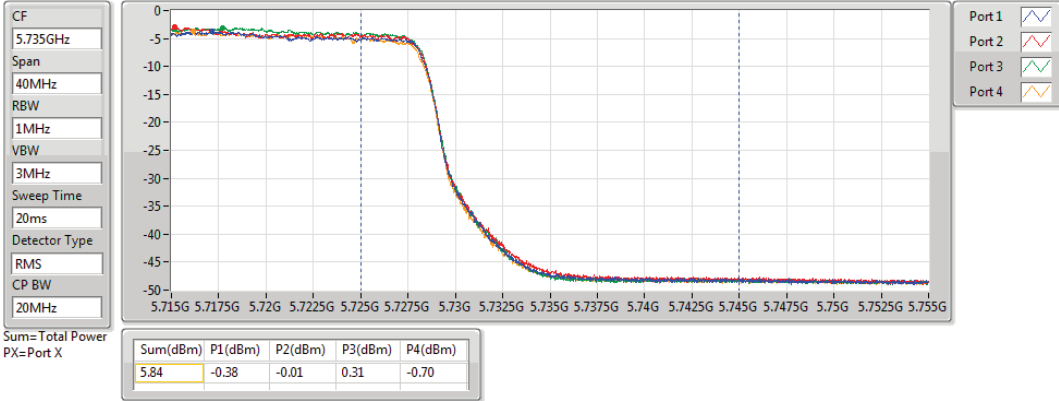


802.11ac VHT40-BF_Nss1,(MCS0)_4TX

AV Power

5710MHz Straddle 5.725-5.85GHz_TnomVnom

06/05/2020

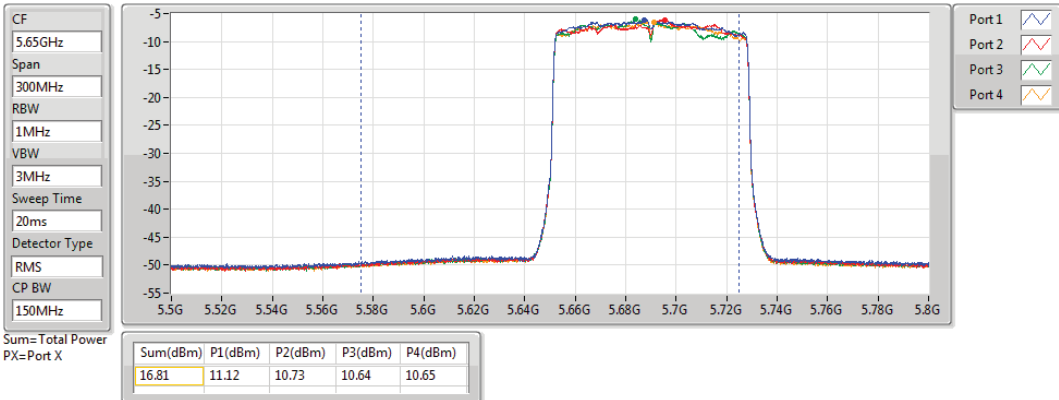


802.11ac VHT80-BF_Nss1,(MCS0)_4TX

AV Power

5690MHz Straddle 5.47-5.725GHz_TnomVnom

13/05/2020

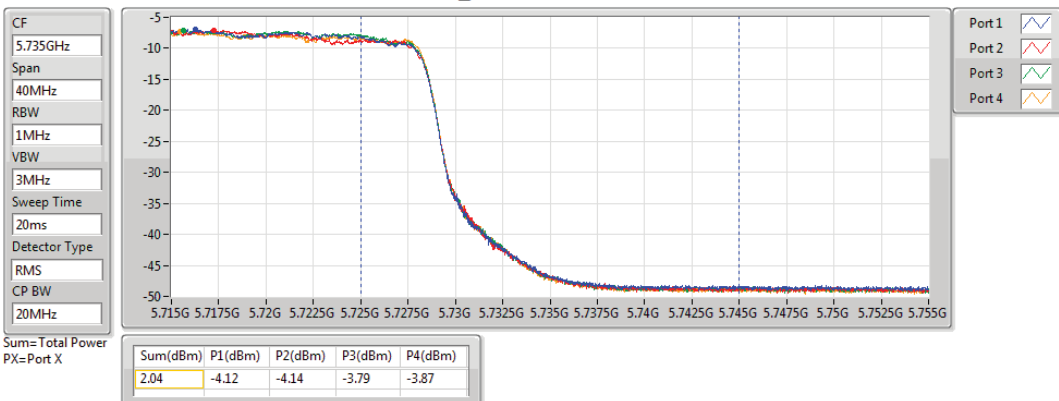


802.11ac VHT80-BF_Nss1,(MCS0)_4TX

AV Power

5690MHz Straddle 5.725-5.85GHz_TnomVnom

13/05/2020

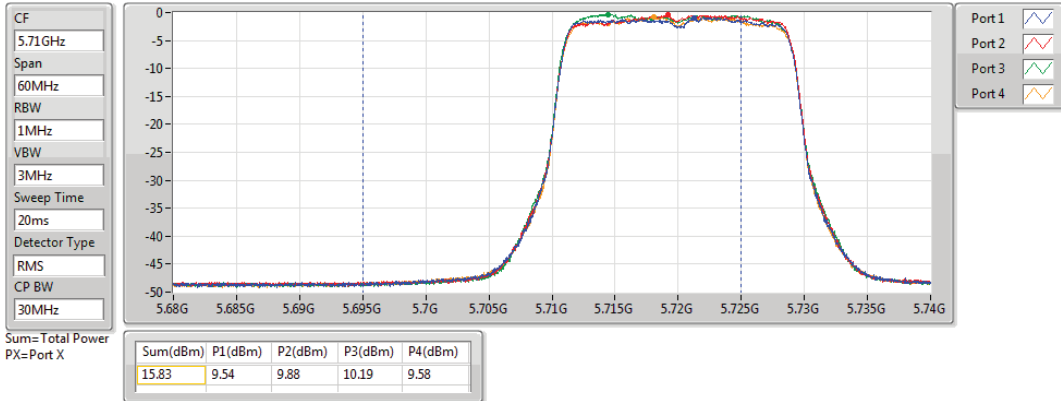


802.11ax HEW20-BF_Nss1,(MCS0)_4TX

AV Power

5720MHz Straddle 5.47-5.725GHz_TnomVnom

05/05/2020

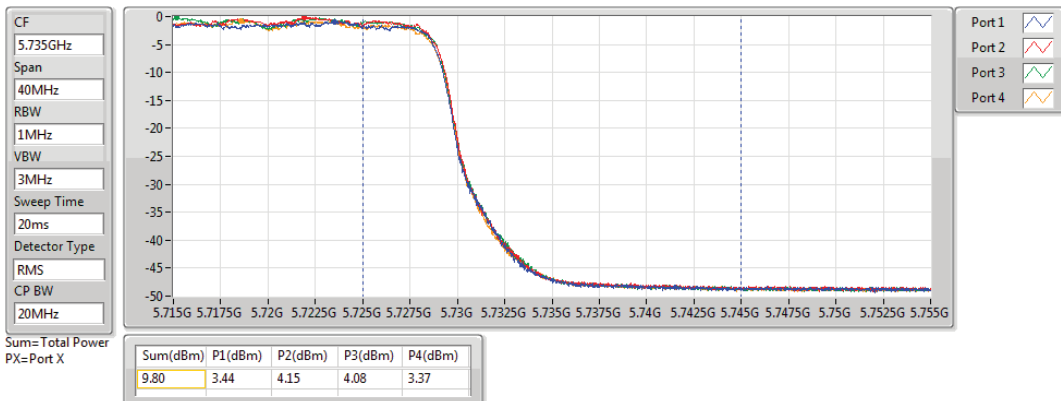


802.11ax HEW20-BF_Nss1,(MCS0)_4TX

AV Power

5720MHz Straddle 5.725-5.85GHz_TnomVnom

05/05/2020

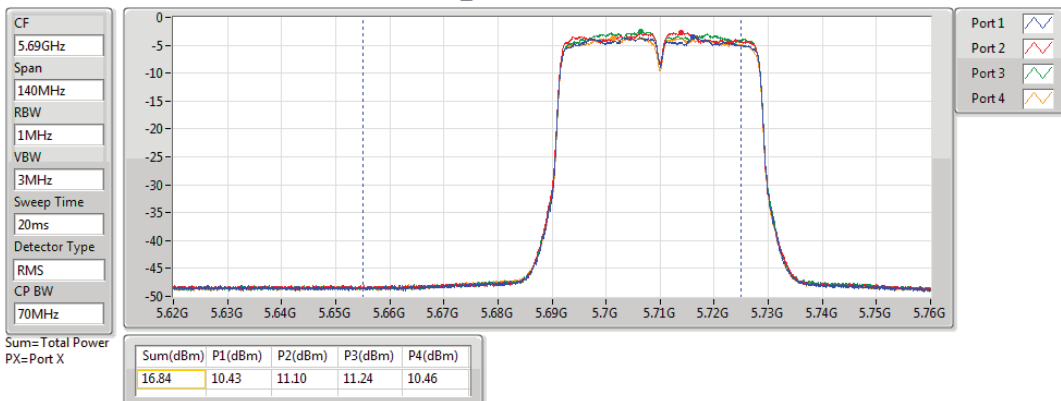


802.11ax HEW40-BF_Nss1,(MCS0)_4TX

AV Power

5710MHz Straddle 5.47-5.725GHz_TnomVnom

06/05/2020

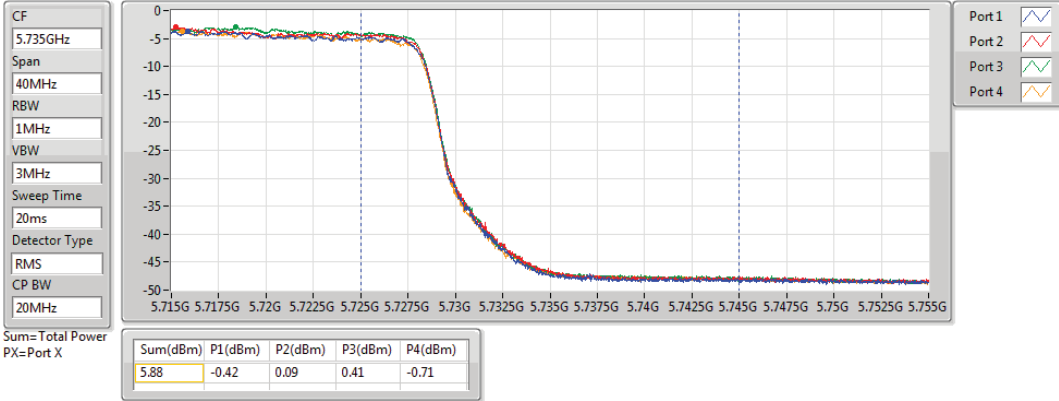


802.11ax HEW40-BF_Nss1,(MCS0)_4TX

AV Power

5710MHz Straddle 5.725-5.85GHz_TnomVnom

06/05/2020

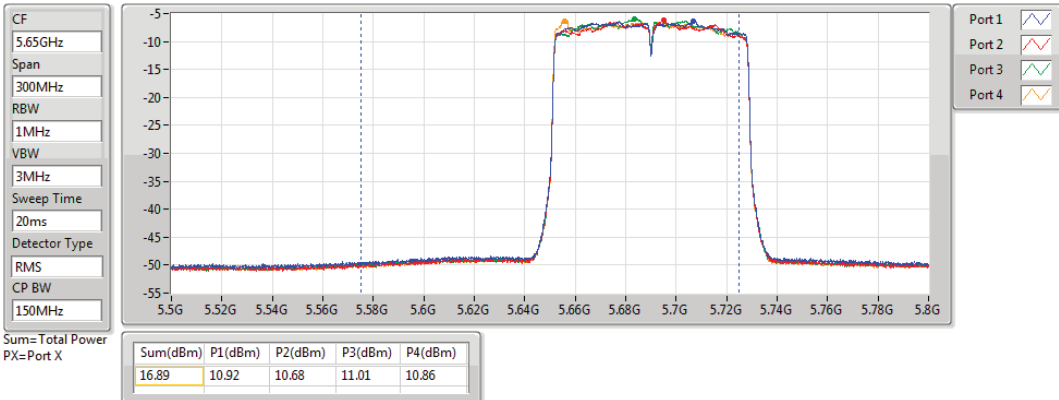


802.11ax HEW80-BF_Nss1,(MCS0)_4TX

AV Power

5690MHz Straddle 5.47-5.725GHz_TnomVnom

13/05/2020

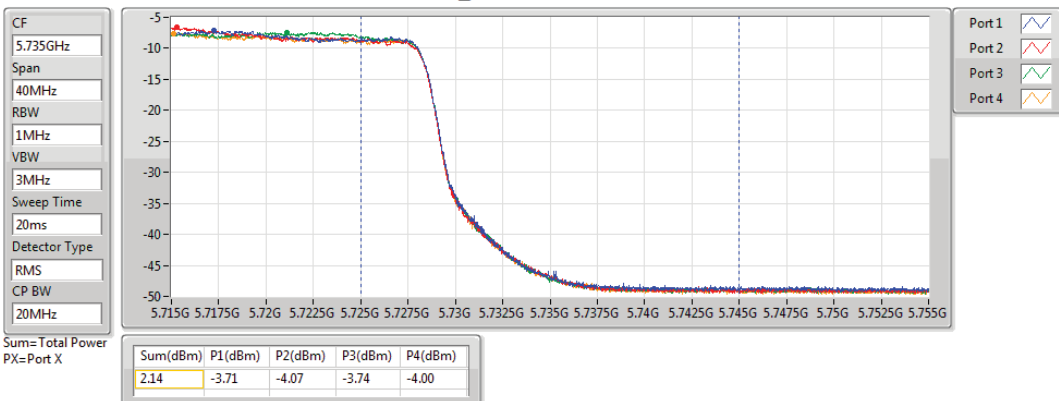


802.11ax HEW80-BF_Nss1,(MCS0)_4TX

AV Power

5690MHz Straddle 5.725-5.85GHz_TnomVnom

13/05/2020



**Summary**

Mode	PD (dBm/RBW)	EIRP PD (dBm/RBW)
5.25-5.35GHz	-	-
802.11a_Nss1,(6Mbps)_4TX	5.36	16.98
802.11ac VHT20_Nss1,(MCS0)_4TX	5.37	16.99
802.11ac VHT40_Nss1,(MCS0)_4TX	5.29	16.91
802.11ac VHT80_Nss1,(MCS0)_4TX	0.70	12.32
802.11ax HEW20_Nss1,(MCS0)_4TX	5.17	16.79
802.11ax HEW40_Nss1,(MCS0)_4TX	5.33	16.95
802.11ax HEW80_Nss1,(MCS0)_4TX	0.87	12.49
5.47-5.725GHz	-	-
802.11a_Nss1,(6Mbps)_4TX	5.34	16.96
802.11ac VHT20_Nss1,(MCS0)_4TX	5.28	16.90
802.11ac VHT40_Nss1,(MCS0)_4TX	5.37	16.99
802.11ac VHT80_Nss1,(MCS0)_4TX	4.56	16.18
802.11ax HEW20_Nss1,(MCS0)_4TX	5.36	16.98
802.11ax HEW40_Nss1,(MCS0)_4TX	5.29	16.91
802.11ax HEW80_Nss1,(MCS0)_4TX	4.74	16.36
5.725-5.85GHz	-	-
802.11a_Nss1,(6Mbps)_4TX	3.62	15.24
802.11ac VHT20_Nss1,(MCS0)_4TX	3.18	14.80
802.11ac VHT40_Nss1,(MCS0)_4TX	2.65	14.27
802.11ac VHT80_Nss1,(MCS0)_4TX	0.21	11.83
802.11ax HEW20_Nss1,(MCS0)_4TX	3.37	14.99
802.11ax HEW40_Nss1,(MCS0)_4TX	2.52	14.14
802.11ax HEW80_Nss1,(MCS0)_4TX	0.42	12.04

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



Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	Port 3 (dBm/RBW)	Port 4 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)	EIRP PD (dBm/RBW)	EIRP PD Limit (dBm/RBW)
802.11a_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-	-	-
5260MHz	Pass	11.62	-0.86	-0.77	-0.72	-0.27	5.09	5.38	16.71	17.00
5300MHz	Pass	11.62	-0.36	-0.55	-0.57	-0.69	5.36	5.38	16.98	17.00
5320MHz	Pass	11.62	-0.45	-0.47	-0.34	-0.28	5.33	5.38	16.95	17.00
5500MHz	Pass	11.62	-0.63	-0.50	-0.71	-0.38	5.34	5.38	16.96	17.00
5580MHz	Pass	11.62	-0.64	-0.55	-0.67	-0.53	5.14	5.38	16.76	17.00
5700MHz	Pass	11.62	-0.05	-0.52	-0.95	-0.80	5.32	5.38	16.94	17.00
5720MHz Straddle 5.47-5.725GHz	Pass	11.62	-0.27	-0.77	-0.41	-0.53	5.33	5.38	16.95	17.00
5720MHz Straddle 5.725-5.85GHz	Pass	11.62	-2.36	-2.17	-2.45	-2.32	3.62	24.38	15.24	36.00
802.11ac VHT20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5260MHz	Pass	11.62	-0.79	-0.49	-0.46	-0.18	5.37	5.38	16.99	17.00
5300MHz	Pass	11.62	-0.82	-0.64	-0.63	-0.82	5.18	5.38	16.80	17.00
5320MHz	Pass	11.62	-0.81	-0.75	-0.84	-0.75	5.11	5.38	16.73	17.00
5500MHz	Pass	11.62	-0.67	-0.57	-0.33	-0.61	5.28	5.38	16.90	17.00
5580MHz	Pass	11.62	-0.59	-0.78	-0.64	-0.40	5.26	5.38	16.88	17.00
5700MHz	Pass	11.62	-0.51	-0.82	-1.10	-1.37	4.93	5.38	16.55	17.00
5720MHz Straddle 5.47-5.725GHz	Pass	11.62	-0.50	-0.75	-0.83	-1.11	4.95	5.38	16.57	17.00
5720MHz Straddle 5.725-5.85GHz	Pass	11.62	-2.61	-2.94	-2.84	-2.79	3.18	24.38	14.80	36.00
802.11ac VHT40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5270MHz	Pass	11.62	-0.75	-0.26	-0.34	-0.19	5.29	5.38	16.91	17.00
5310MHz	Pass	11.62	-0.86	-0.37	-0.90	-1.05	5.03	5.38	16.65	17.00
5510MHz	Pass	11.62	-1.05	-0.99	-0.71	-0.81	4.93	5.38	16.55	17.00
5550MHz	Pass	11.62	-0.15	-0.44	-0.60	-0.35	5.34	5.38	16.96	17.00
5670MHz	Pass	11.62	-0.97	-0.97	-0.70	-1.09	4.89	5.38	16.51	17.00
5710MHz Straddle 5.47-5.725GHz	Pass	11.62	-0.25	-0.42	-0.34	-0.96	5.37	5.38	16.99	17.00
5710MHz Straddle 5.725-5.85GHz	Pass	11.62	-3.34	-3.37	-3.09	-3.55	2.65	24.38	14.27	36.00
802.11ac VHT80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5290MHz	Pass	11.62	-5.45	-5.02	-4.75	-5.28	0.70	5.38	12.32	17.00
5530MHz	Pass	11.62	-4.46	-4.41	-4.13	-3.99	1.53	5.38	13.15	17.00
5610MHz	Pass	11.62	-1.57	-1.11	-1.13	-1.22	4.56	5.38	16.18	17.00
5690MHz Straddle 5.47-5.725GHz	Pass	11.62	-1.87	-1.82	-1.78	-2.28	4.01	5.38	15.63	17.00
5690MHz Straddle 5.725-5.85GHz	Pass	11.62	-5.96	-5.45	-5.43	-6.04	0.21	24.38	11.83	36.00
802.11ax HEW20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5260MHz	Pass	11.62	-0.75	-0.71	-0.72	-0.41	5.17	5.38	16.79	17.00
5300MHz	Pass	11.62	-0.89	-1.10	-0.87	-1.19	4.90	5.38	16.52	17.00
5320MHz	Pass	11.62	-0.94	-1.25	-1.03	-1.08	4.82	5.38	16.44	17.00
5500MHz	Pass	11.62	-0.89	-0.39	-0.71	-0.52	5.12	5.38	16.74	17.00
5580MHz	Pass	11.62	-0.60	-0.85	-0.70	-0.73	5.15	5.38	16.77	17.00
5700MHz	Pass	11.62	-0.09	-0.43	-0.84	-0.86	5.34	5.38	16.96	17.00
5720MHz Straddle 5.47-5.725GHz	Pass	11.62	-0.59	-0.60	-0.43	-0.55	5.36	5.38	16.98	17.00
5720MHz Straddle 5.725-5.85GHz	Pass	11.62	-2.49	-2.83	-2.32	-2.54	3.37	24.38	14.99	36.00
802.11ax HEW40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5270MHz	Pass	11.62	-1.10	-0.47	-0.72	-0.45	5.12	5.38	16.74	17.00
5310MHz	Pass	11.62	-0.46	-0.11	-0.64	-0.69	5.33	5.38	16.95	17.00



Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	Port 3 (dBm/RBW)	Port 4 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)	EIRP PD (dBm/RBW)	EIRP PD Limit (dBm/RBW)
5510MHz	Pass	11.62	-0.78	-0.62	-0.40	-0.43	5.29	5.38	16.91	17.00
5550MHz	Pass	11.62	-0.28	-0.62	-0.67	-0.53	5.18	5.38	16.80	17.00
5670MHz	Pass	11.62	-0.48	-0.65	-0.36	-0.77	5.27	5.38	16.89	17.00
5710MHz Straddle 5.47-5.725GHz	Pass	11.62	-0.37	-0.58	-0.52	-1.09	5.22	5.38	16.84	17.00
5710MHz Straddle 5.725-5.85GHz	Pass	11.62	-3.52	-3.36	-3.14	-3.90	2.52	24.38	14.14	36.00
802.11ax HEW80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5290MHz	Pass	11.62	-5.24	-4.89	-4.75	-5.01	0.87	5.38	12.49	17.00
5530MHz	Pass	11.62	-3.93	-4.00	-3.73	-3.60	1.97	5.38	13.59	17.00
5610MHz	Pass	11.62	-1.30	-0.67	-0.92	-0.95	4.74	5.38	16.36	17.00
5690MHz Straddle 5.47-5.725GHz	Pass	11.62	-1.61	-1.73	-1.69	-2.09	4.05	5.38	15.67	17.00
5690MHz Straddle 5.725-5.85GHz	Pass	11.62	-5.67	-5.32	-5.27	-5.79	0.42	24.38	12.04	36.00

DG = Directional Gain; **RBW** = 500 kHz for 5.725-5.85GHz band / 1MHz for other band;

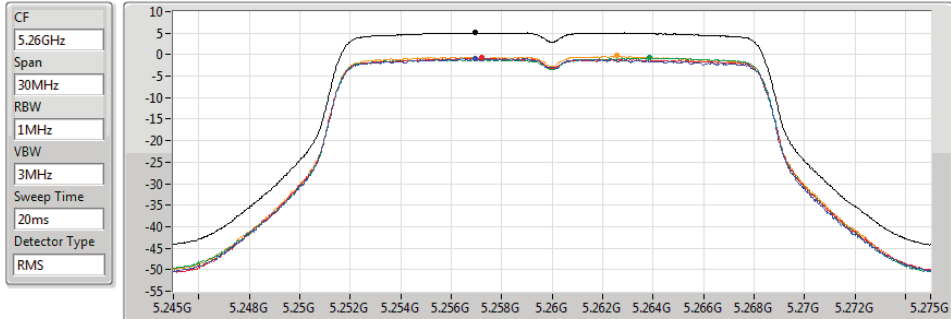
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; **Port X** = Port X power density;

802.11a_Nss1,(6Mbps)_4TX

PSD

5260MHz

28/04/2020



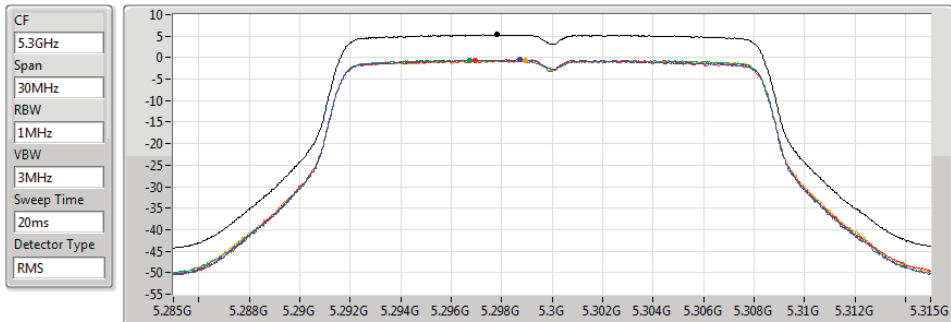
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
5.09	5.09	-0.86	-0.77	-0.72	-0.27

802.11a_Nss1,(6Mbps)_4TX

PSD

5300MHz

28/04/2020



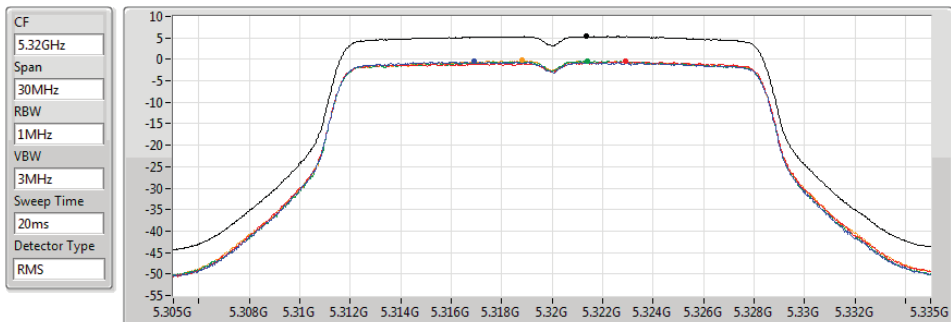
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
5.36	5.36	-0.36	-0.55	-0.57	-0.69

802.11a_Nss1,(6Mbps)_4TX

PSD

5320MHz

28/04/2020



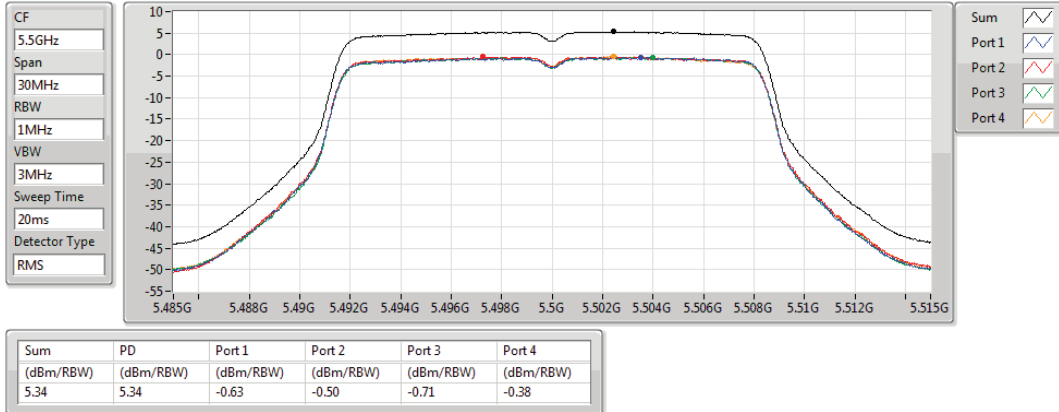
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
5.33	5.33	-0.45	-0.47	-0.34	-0.28

802.11a_Nss1,(6Mbps)_4TX

PSD

5500MHz

28/04/2020

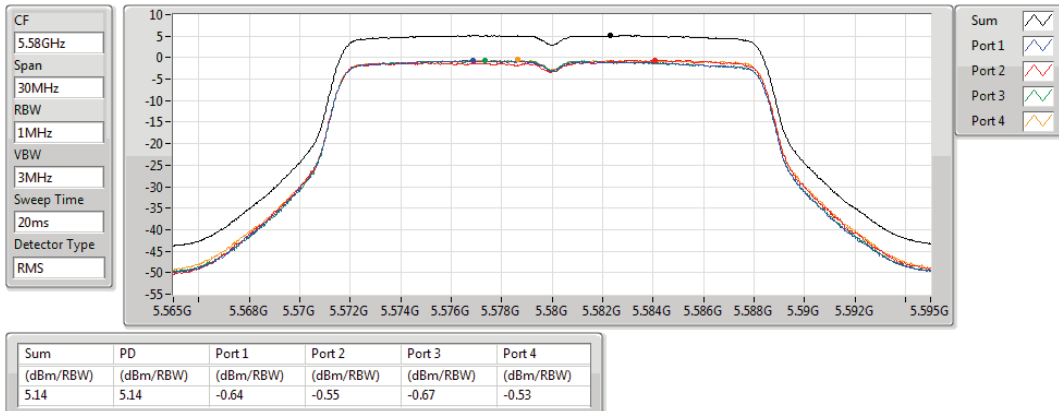


802.11a_Nss1,(6Mbps)_4TX

PSD

5580MHz

28/04/2020

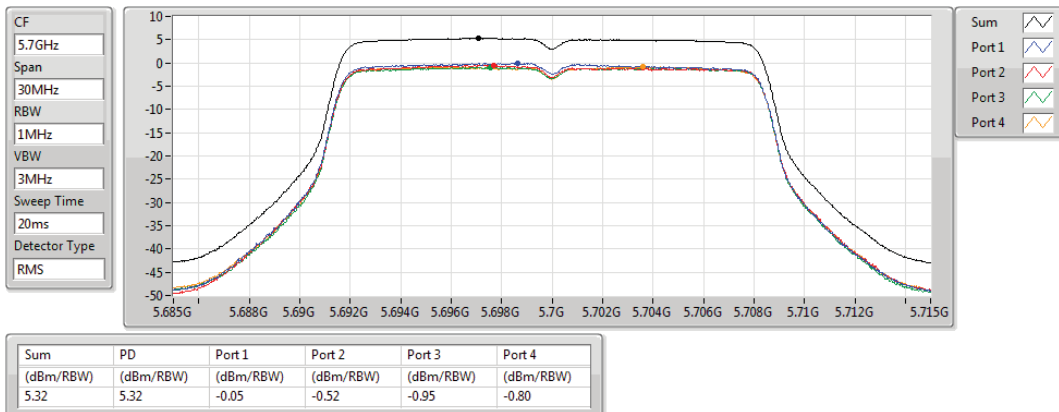


802.11a_Nss1,(6Mbps)_4TX

PSD

5700MHz

28/04/2020

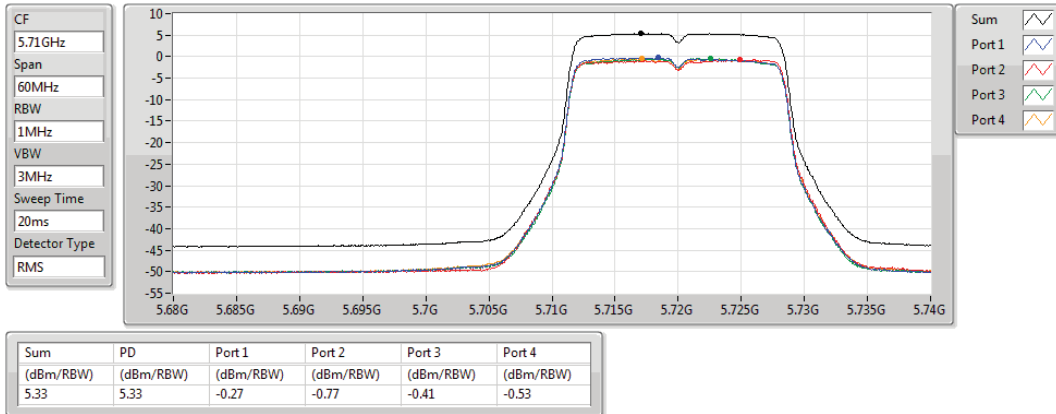


802.11a_Nss1,(6Mbps)_4TX

5720MHz Straddle 5.47-5.725GHz

PSD

28/04/2020

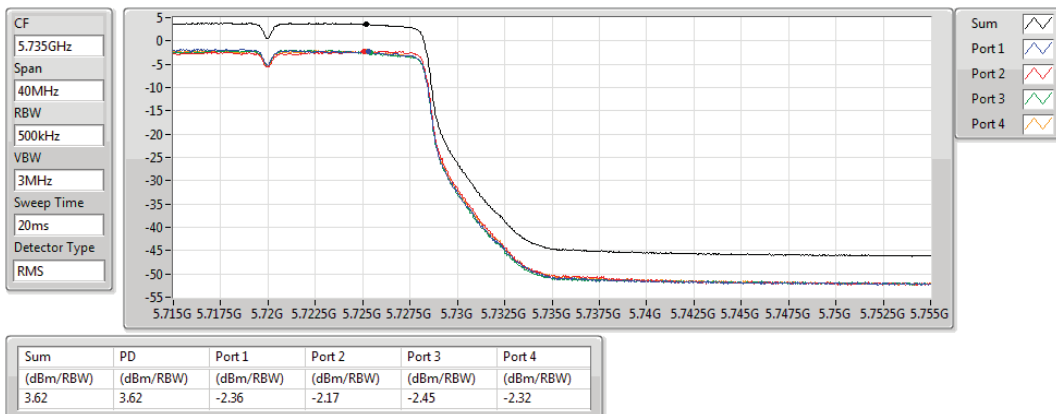


802.11a_Nss1,(6Mbps)_4TX

5720MHz Straddle 5.725-5.85GHz

PSD

28/04/2020

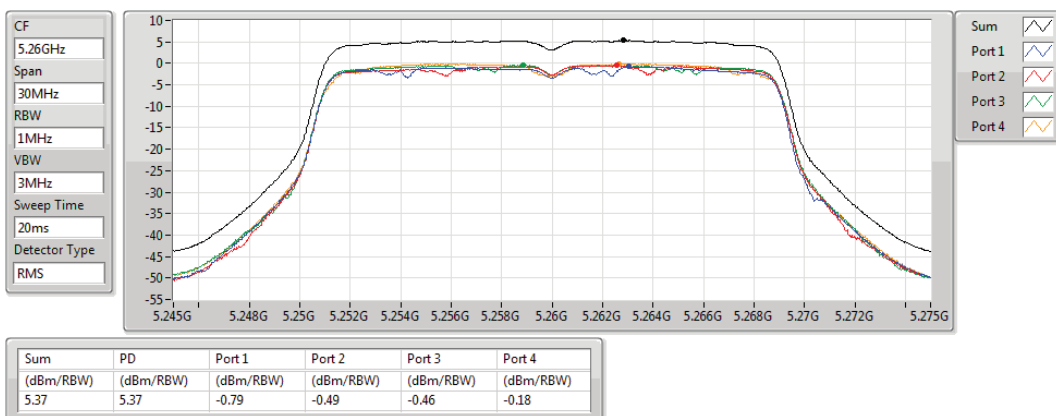


802.11ac VHT20_Nss1,(MCS0)_4TX

5260MHz

PSD

28/04/2020

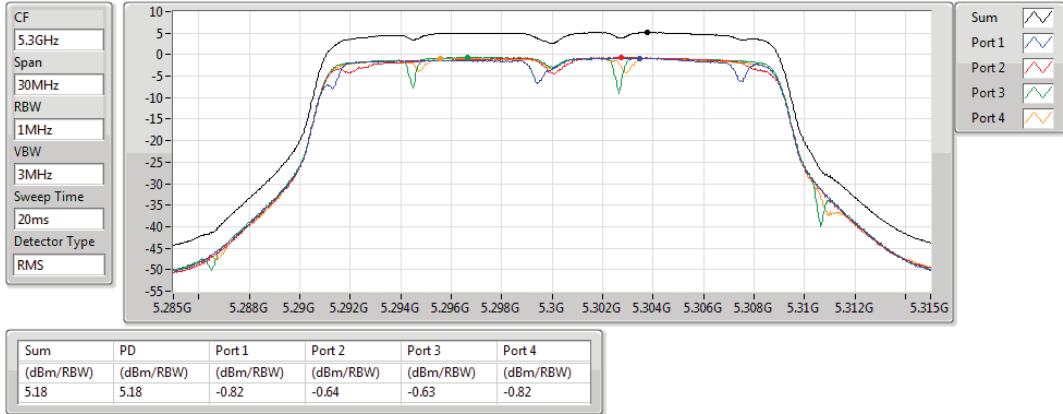


802.11ac VHT20_Nss1,(MCS0)_4TX

PSD

5300MHz

28/04/2020

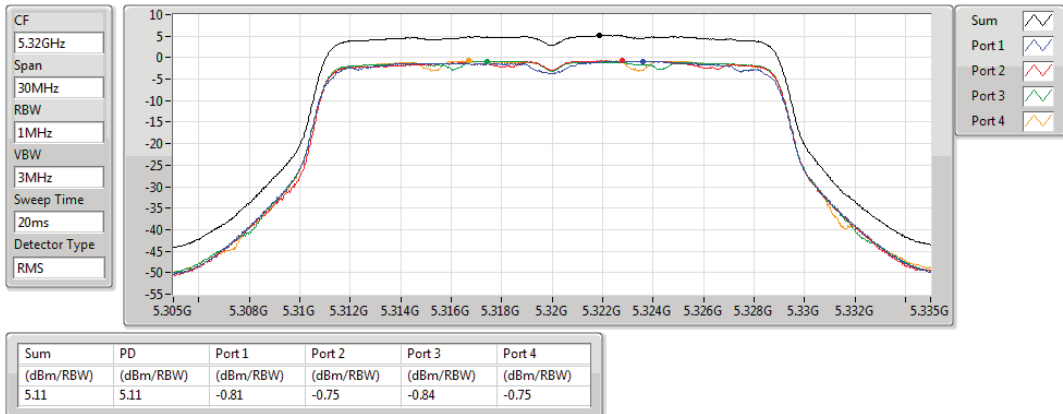


802.11ac VHT20_Nss1,(MCS0)_4TX

PSD

5320MHz

28/04/2020

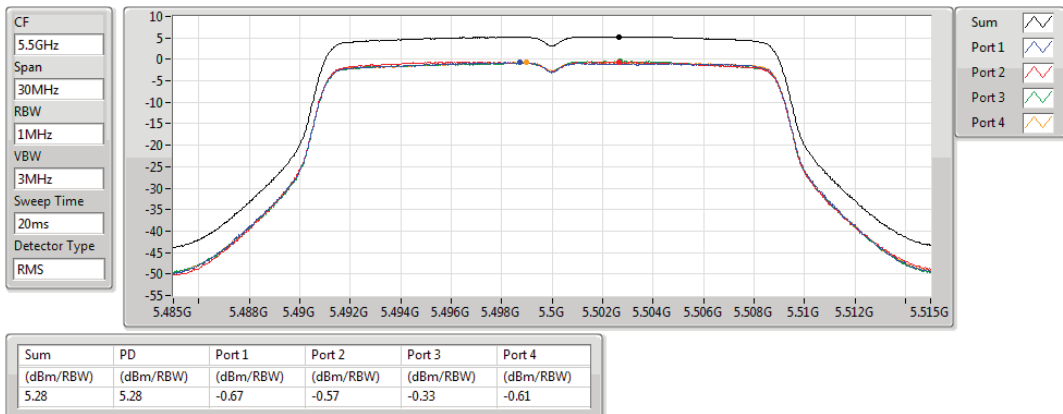


802.11ac VHT20_Nss1,(MCS0)_4TX

PSD

5500MHz

28/04/2020

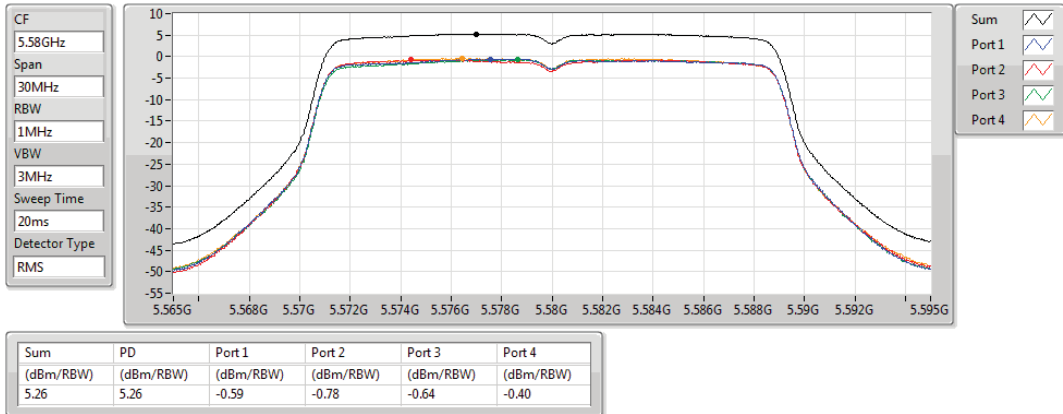


802.11ac VHT20_Nss1,(MCS0)_4TX

5580MHz

PSD

28/04/2020

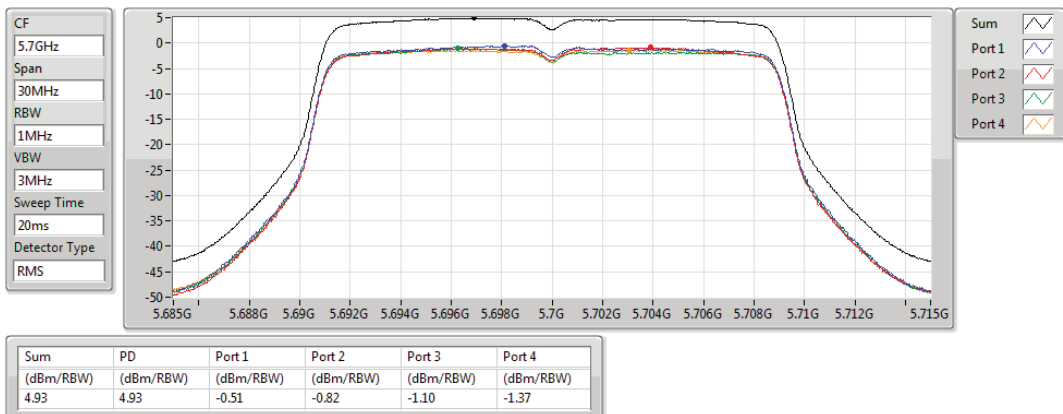


802.11ac VHT20_Nss1,(MCS0)_4TX

5700MHz

PSD

28/04/2020

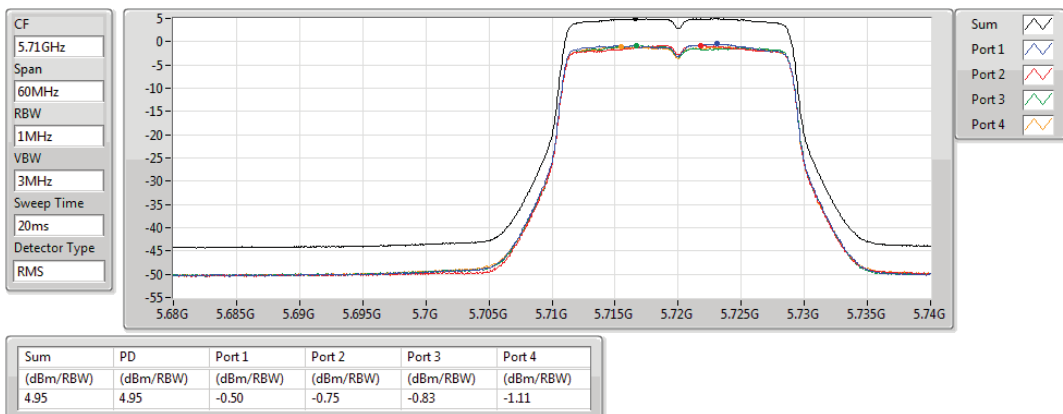


802.11ac VHT20_Nss1,(MCS0)_4TX

5720MHz Straddle 5.47-5.725GHz

PSD

28/04/2020

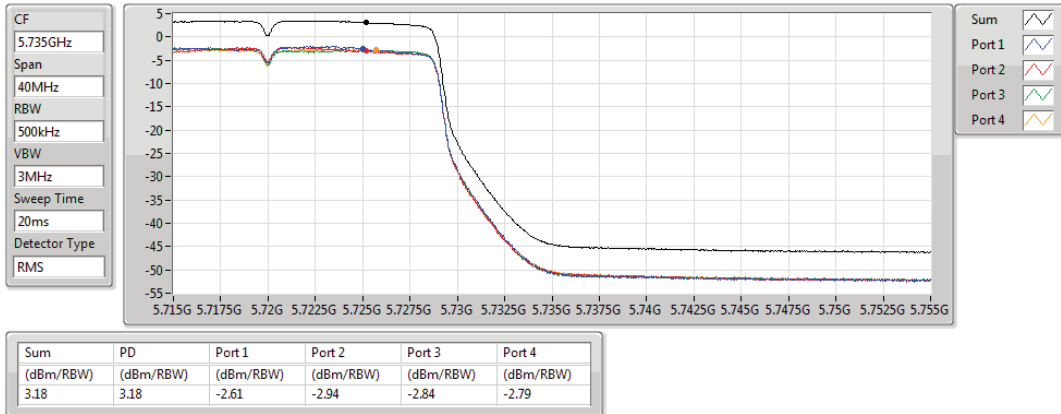


802.11ac VHT20_Nss1,(MCS0)_4TX

5720MHz Straddle 5.725-5.85GHz

PSD

28/04/2020

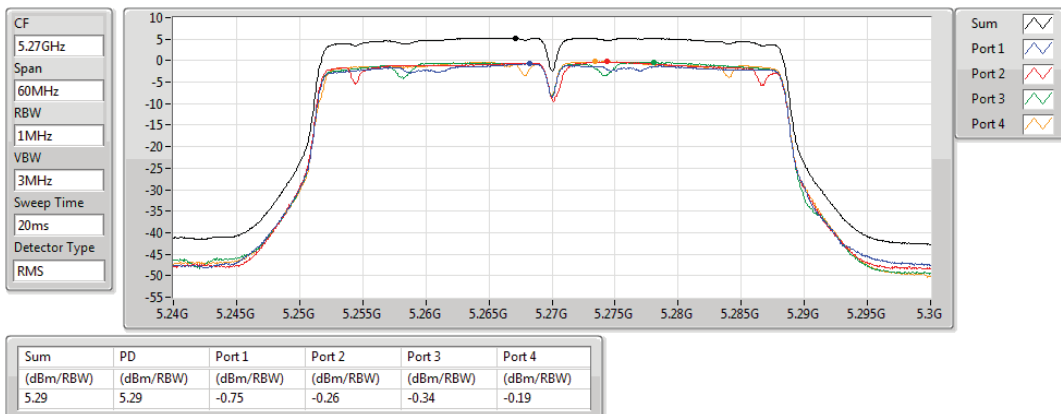


802.11ac VHT40_Nss1,(MCS0)_4TX

5270MHz

PSD

28/04/2020

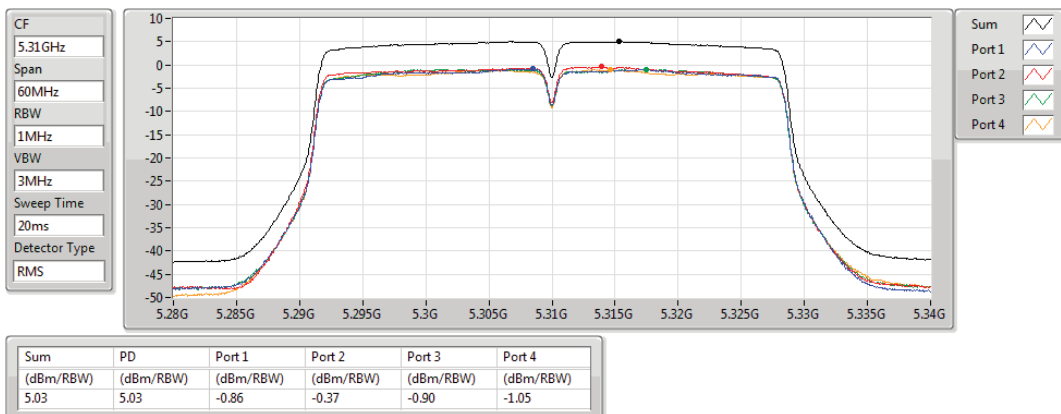


802.11ac VHT40_Nss1,(MCS0)_4TX

5310MHz

PSD

28/04/2020

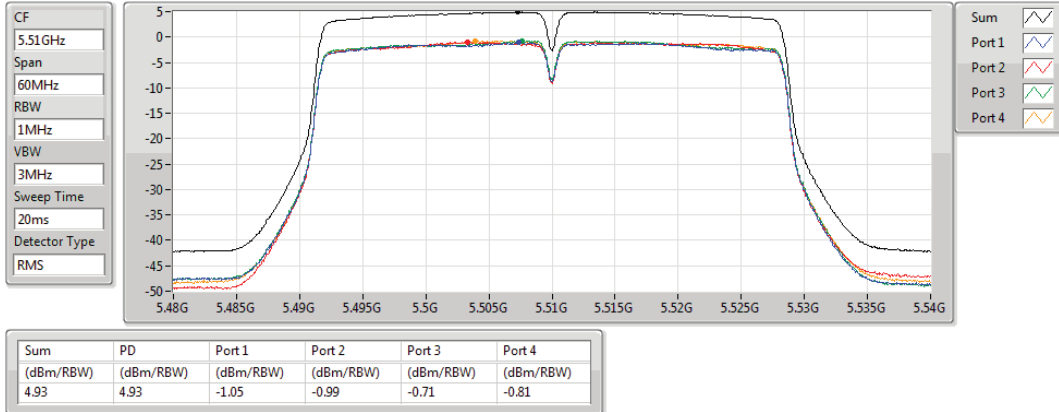


802.11ac VHT40_Nss1,(MCS0)_4TX

PSD

5510MHz

28/04/2020

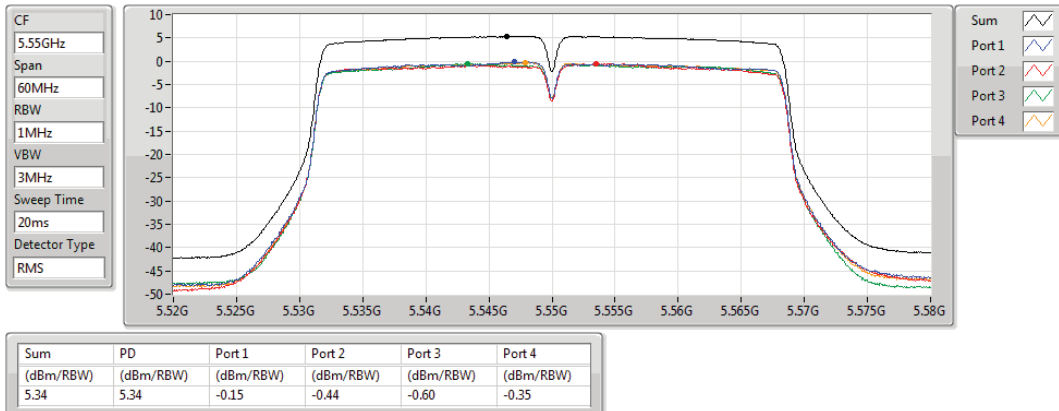


802.11ac VHT40_Nss1,(MCS0)_4TX

PSD

5550MHz

28/04/2020

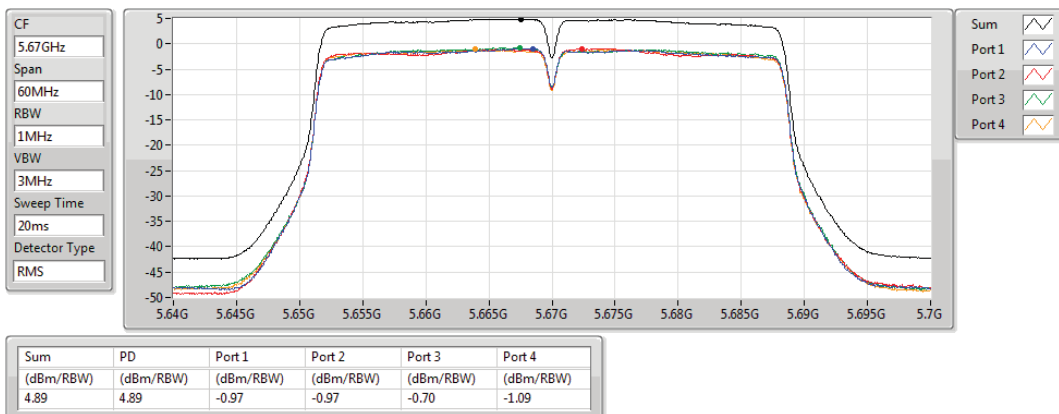


802.11ac VHT40_Nss1,(MCS0)_4TX

PSD

5670MHz

28/04/2020

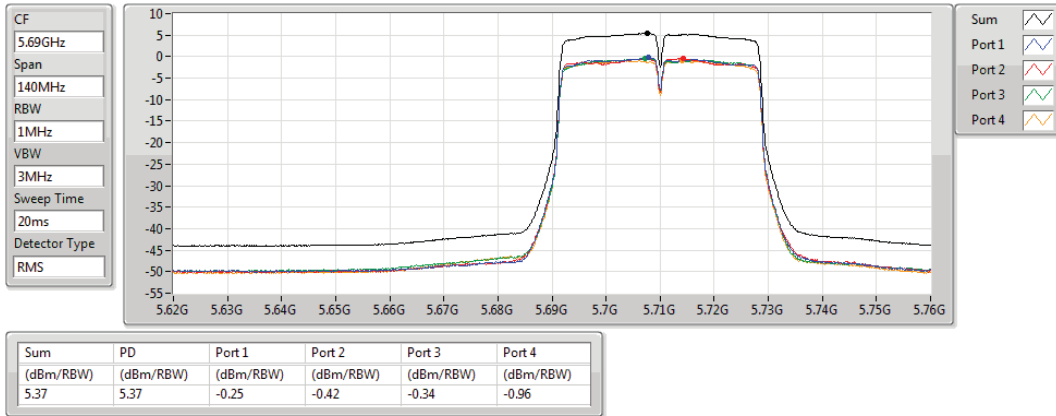


802.11ac VHT40_Nss1,(MCS0)_4TX

5710MHz Straddle 5.47-5.725GHz

PSD

28/04/2020

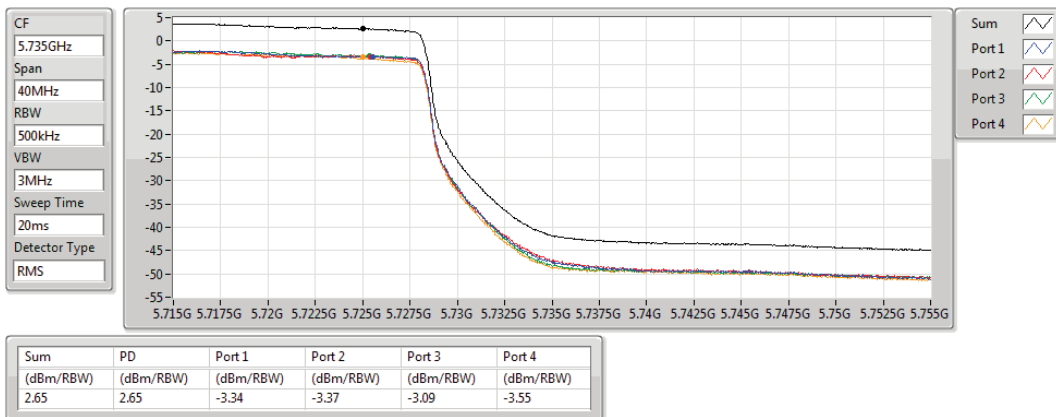


802.11ac VHT40_Nss1,(MCS0)_4TX

5710MHz Straddle 5.725-5.85GHz

PSD

28/04/2020

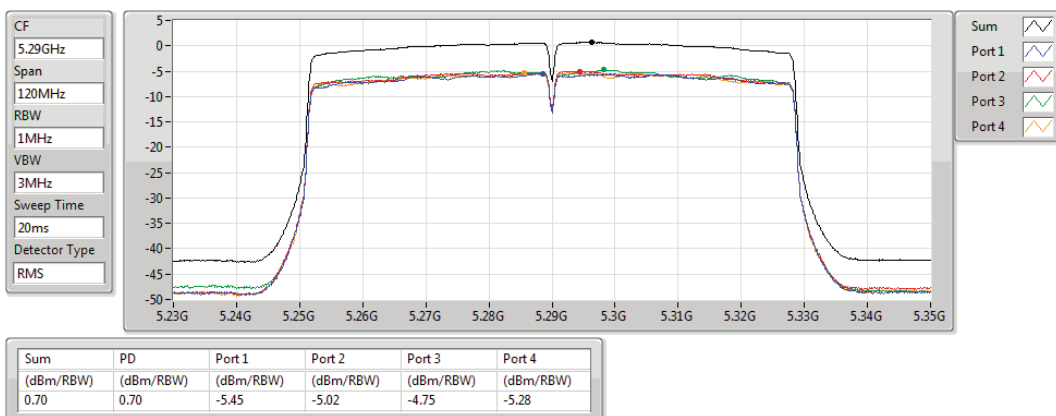


802.11ac VHT80_Nss1,(MCS0)_4TX

5290MHz

PSD

28/04/2020

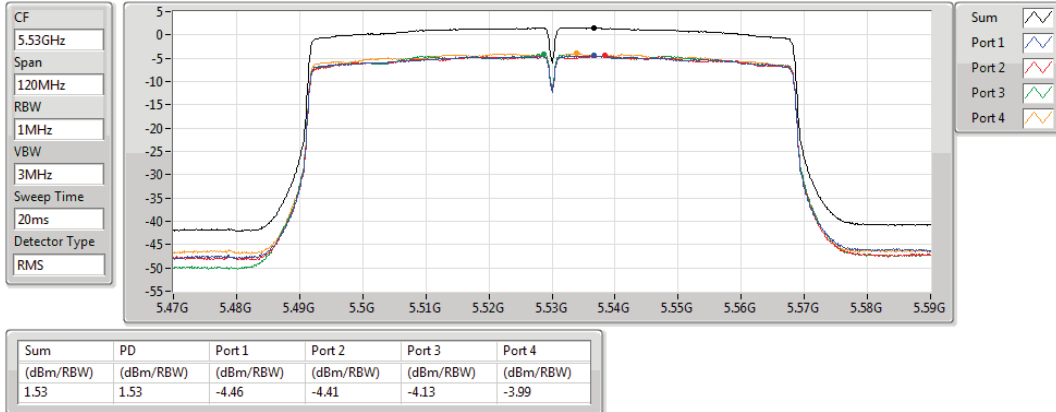


802.11ac VHT80_Nss1,(MCS0)_4TX

PSD

5530MHz

06/05/2020

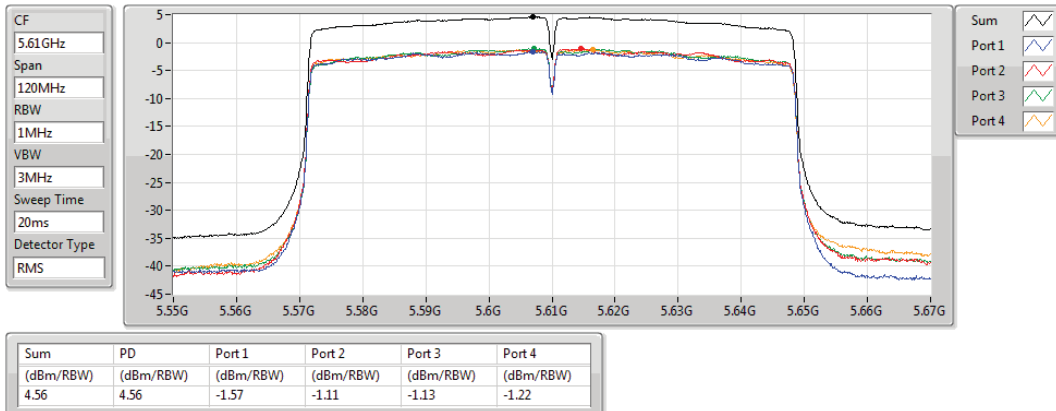


802.11ac VHT80_Nss1,(MCS0)_4TX

PSD

5610MHz

28/04/2020

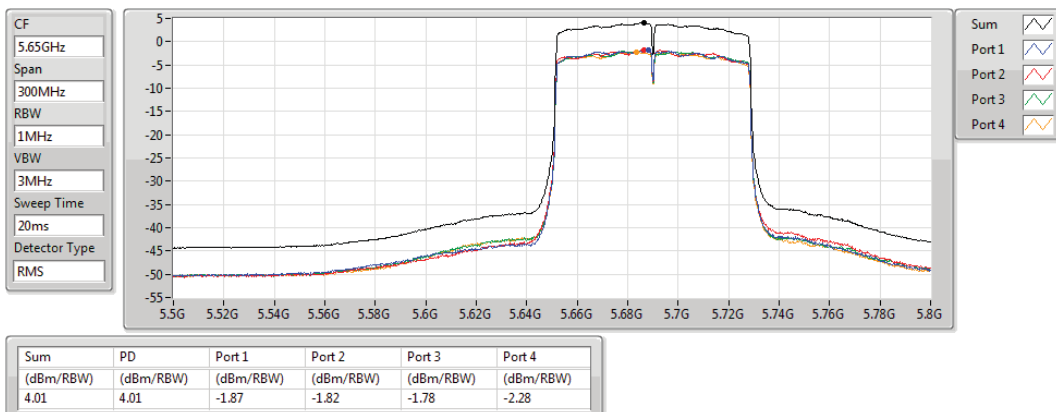


802.11ac VHT80_Nss1,(MCS0)_4TX

PSD

5690MHz Straddle 5.47-5.725GHz

28/04/2020

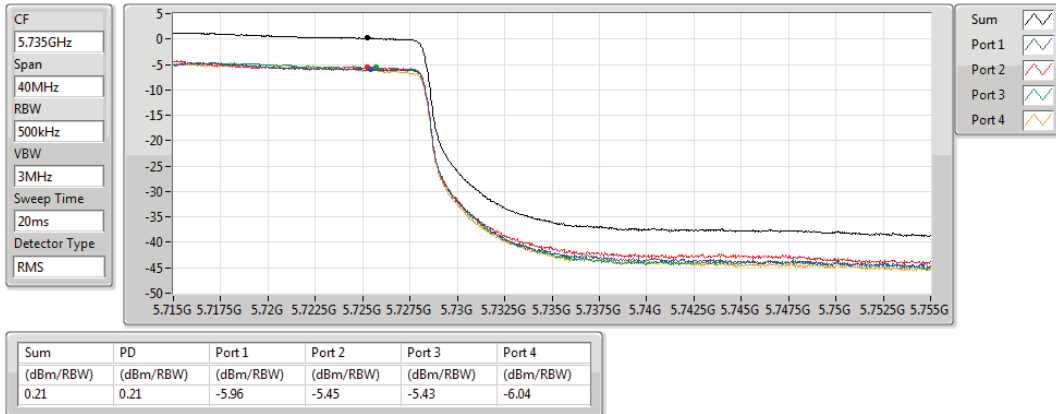


802.11ac VHT80_Nss1,(MCS0)_4TX

PSD

5690MHz Straddle 5.725-5.85GHz

28/04/2020

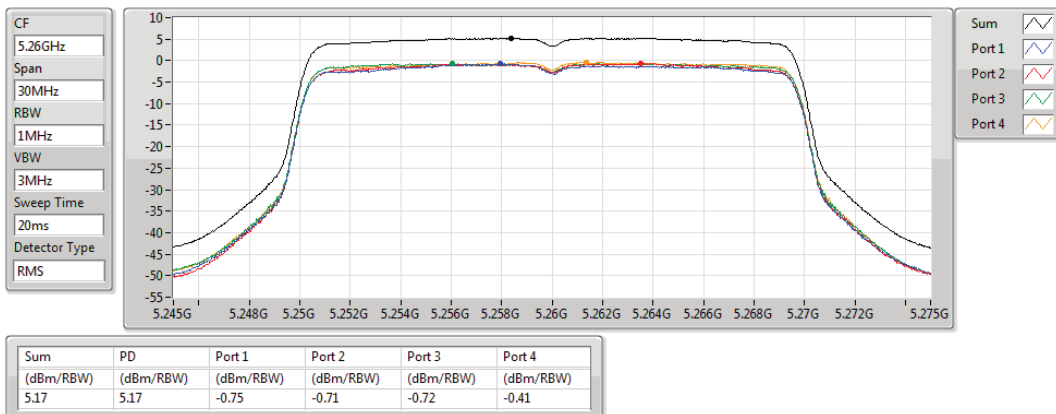


802.11ax HEW20_Nss1,(MCS0)_4TX

PSD

5260MHz

28/04/2020

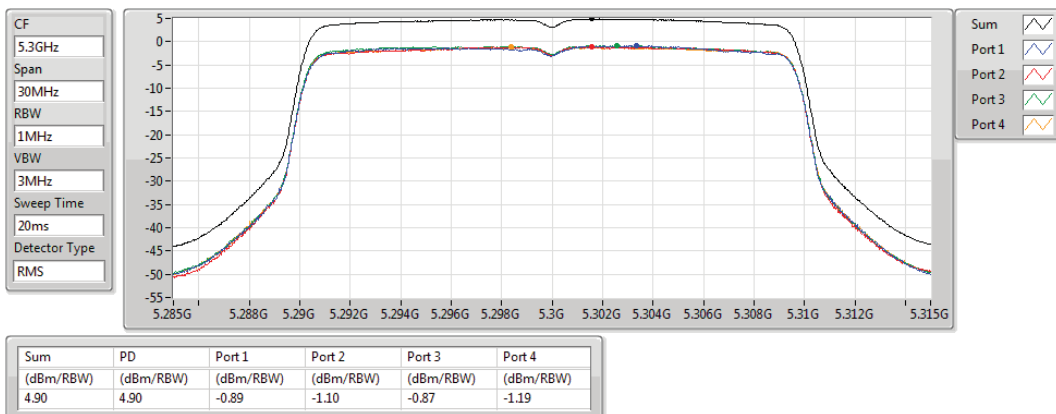


802.11ax HEW20_Nss1,(MCS0)_4TX

PSD

5300MHz

28/04/2020

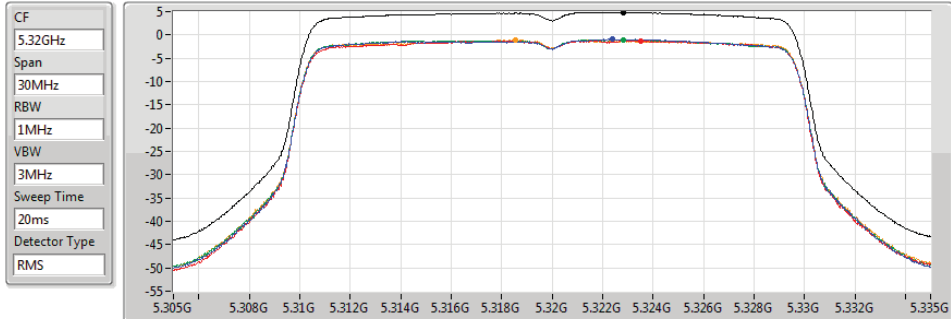


802.11ax HEW20_Nss1,(MCS0)_4TX

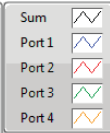
PSD

5320MHz

28/04/2020



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
4.82	4.82	-0.94	-1.25	-1.03	-1.08

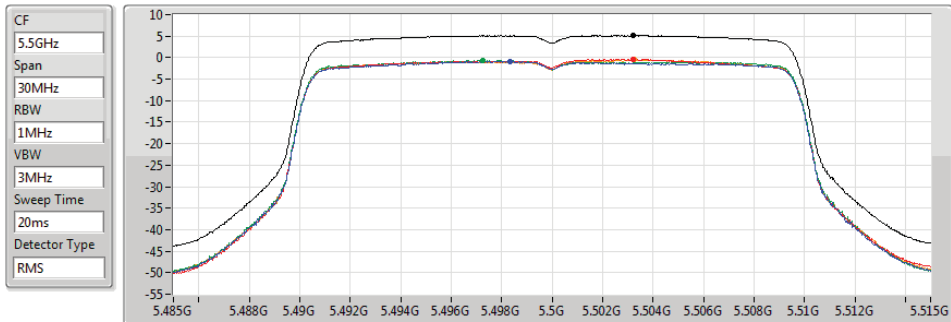


802.11ax HEW20_Nss1,(MCS0)_4TX

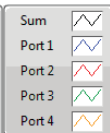
PSD

5500MHz

28/04/2020



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
5.12	5.12	-0.89	-0.39	-0.71	-0.52

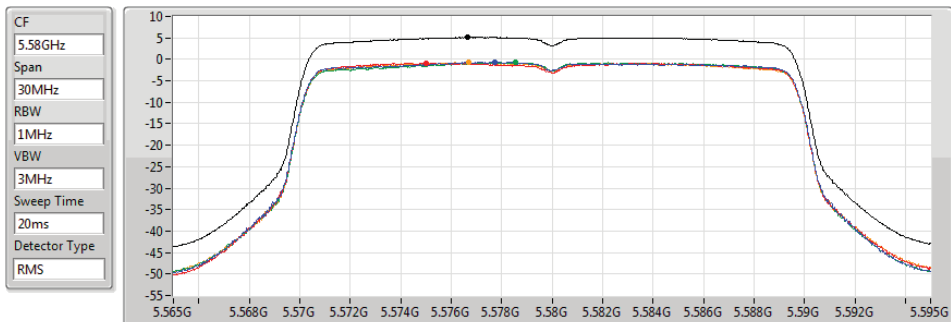


802.11ax HEW20_Nss1,(MCS0)_4TX

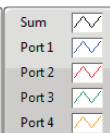
PSD

5580MHz

28/04/2020



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
5.15	5.15	-0.60	-0.85	-0.70	-0.73

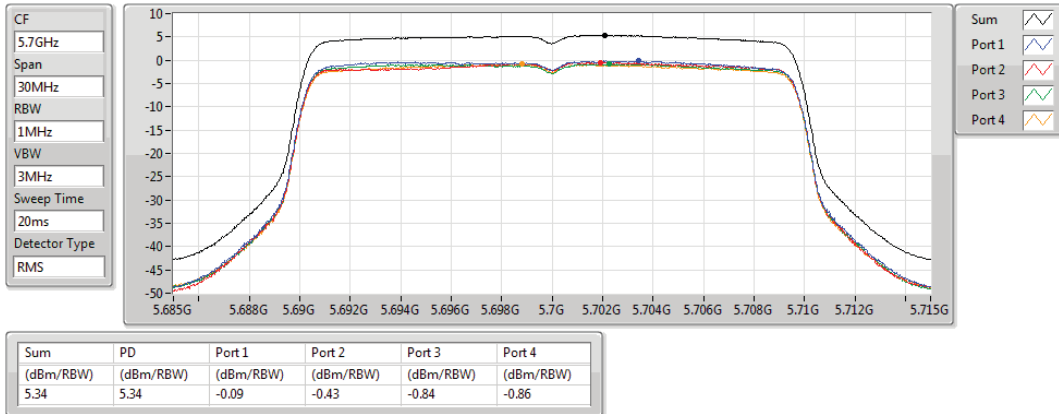


802.11ax HEW20_Nss1,(MCS0)_4TX

PSD

5700MHz

28/04/2020

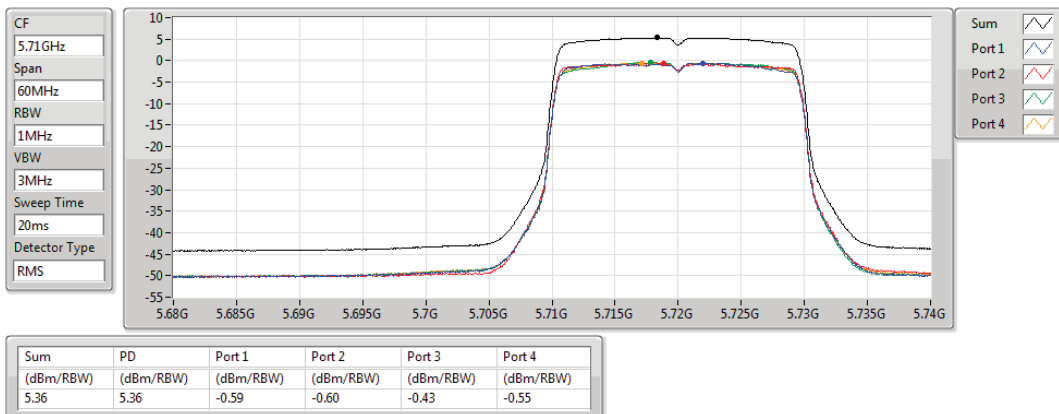


802.11ax HEW20_Nss1,(MCS0)_4TX

PSD

5720MHz Straddle 5.47-5.725GHz

28/04/2020

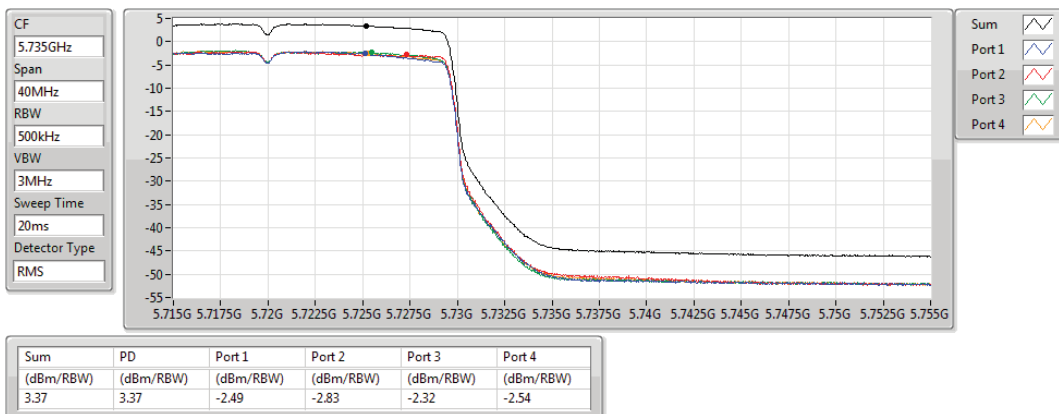


802.11ax HEW20_Nss1,(MCS0)_4TX

PSD

5720MHz Straddle 5.725-5.85GHz

28/04/2020

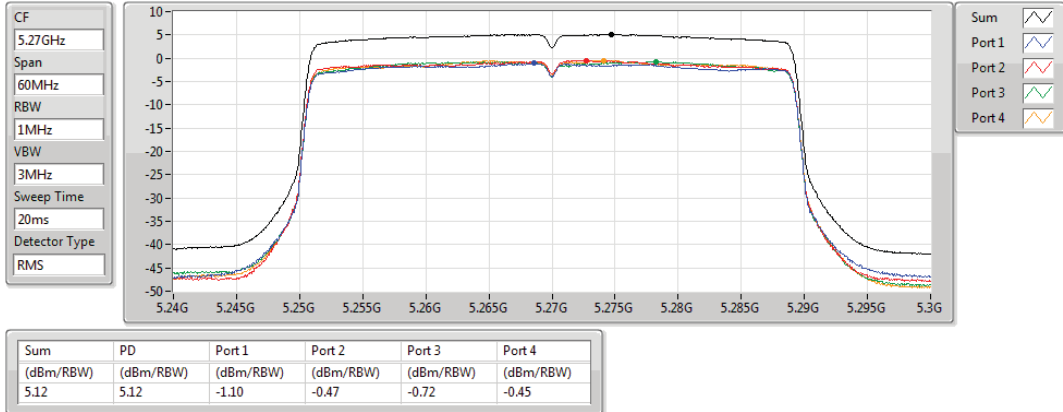


802.11ax HEW40_Nss1,(MCS0)_4TX

PSD

5270MHz

28/04/2020

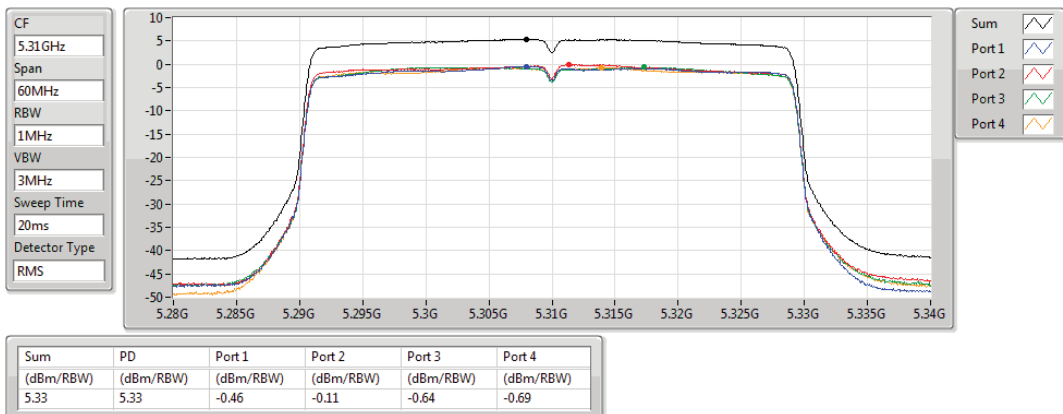


802.11ax HEW40_Nss1,(MCS0)_4TX

PSD

5310MHz

28/04/2020

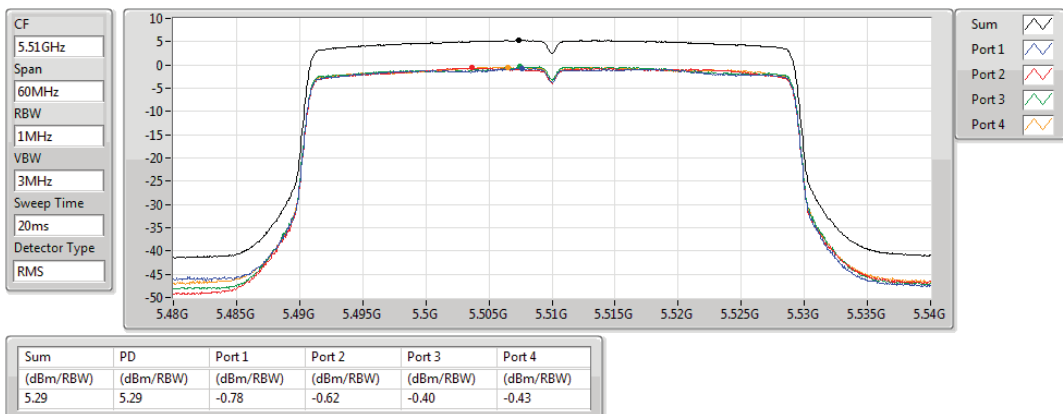


802.11ax HEW40_Nss1,(MCS0)_4TX

PSD

5510MHz

28/04/2020

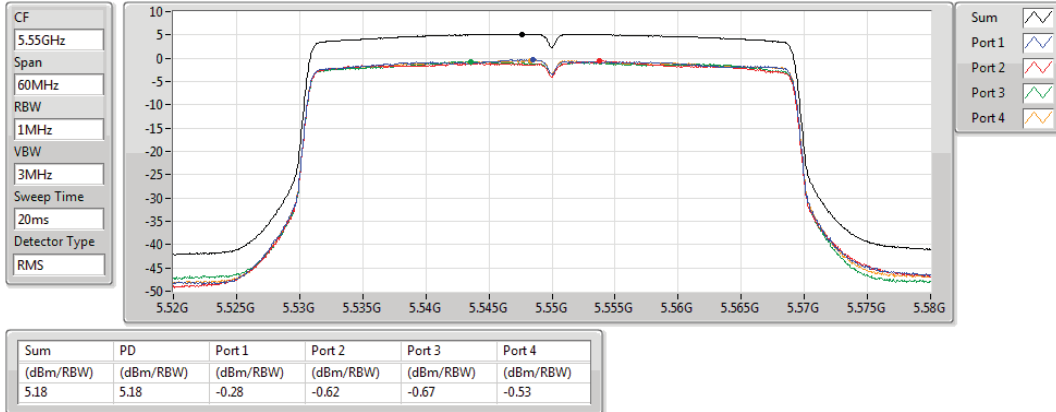


802.11ax HEW40_Nss1,(MCS0)_4TX

PSD

5550MHz

28/04/2020

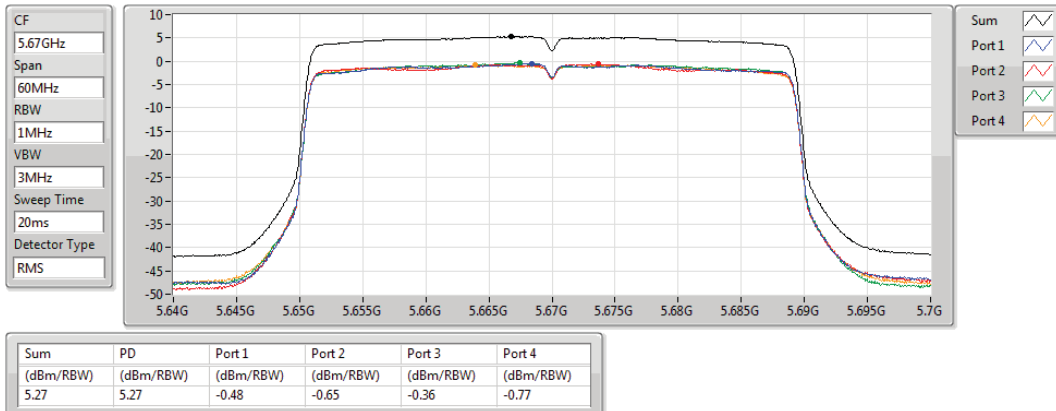


802.11ax HEW40_Nss1,(MCS0)_4TX

PSD

5670MHz

28/04/2020

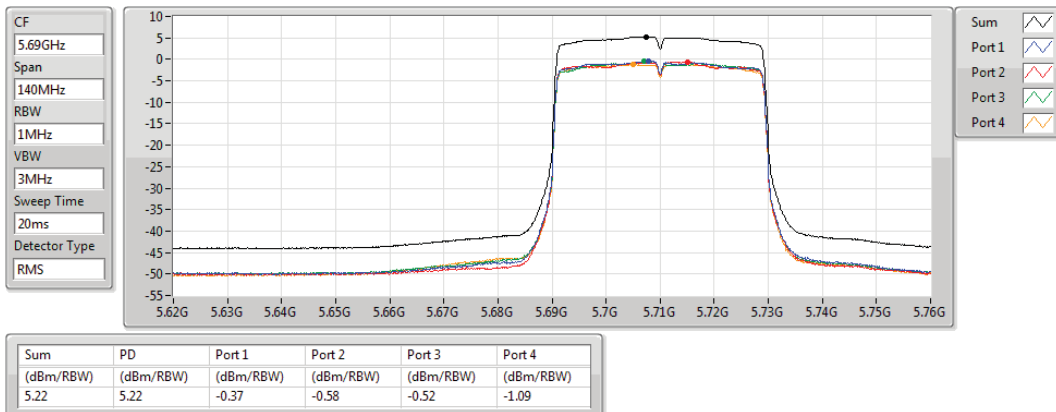


802.11ax HEW40_Nss1,(MCS0)_4TX

PSD

5710MHz Straddle 5.47-5.725GHz

28/04/2020

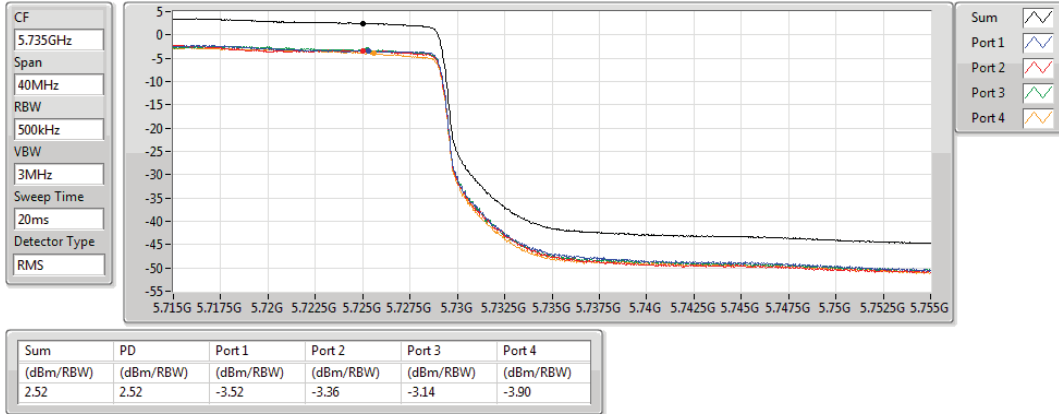


802.11ax HEW40_Nss1,(MCS0)_4TX

PSD

5710MHz Straddle 5.725-5.85GHz

28/04/2020

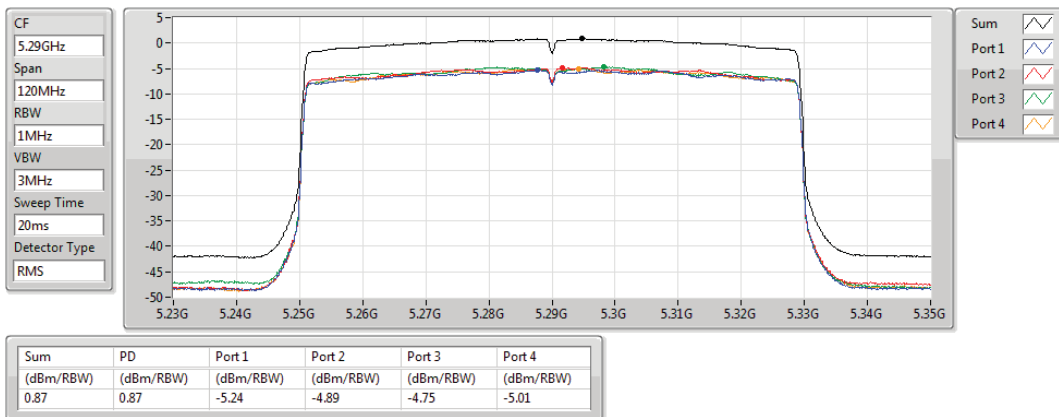


802.11ax HEW80_Nss1,(MCS0)_4TX

PSD

5290MHz

28/04/2020

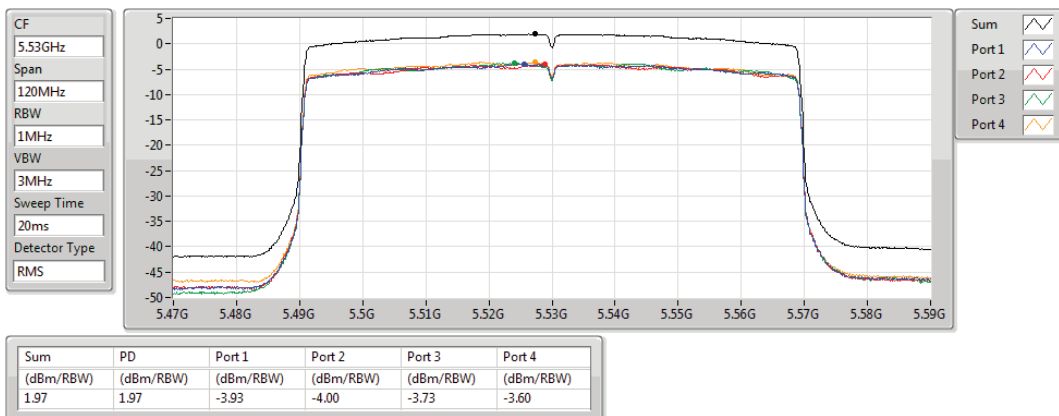


802.11ax HEW80_Nss1,(MCS0)_4TX

PSD

5530MHz

06/05/2020

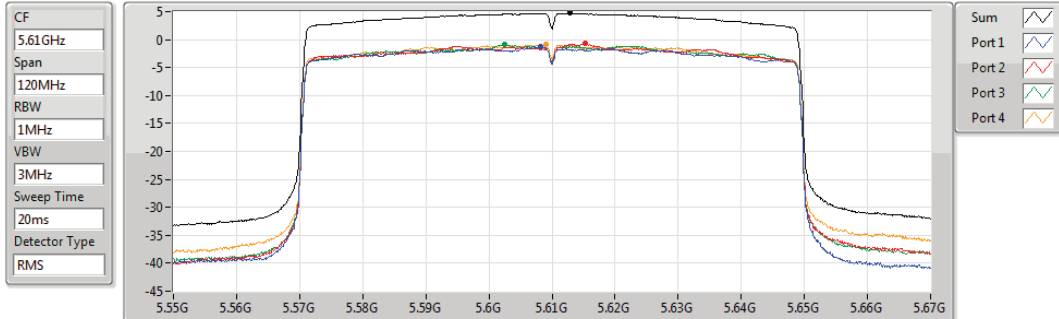


802.11ax HEW80_Nss1,(MCS0)_4TX

PSD

5610MHz

28/04/2020



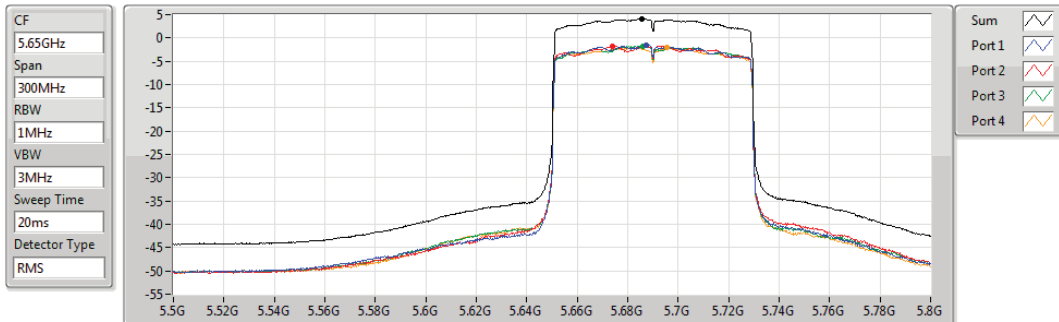
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
4.74	4.74	-1.30	-0.67	-0.92	-0.95

802.11ax HEW80_Nss1,(MCS0)_4TX

PSD

5690MHz Straddle 5.47-5.725GHz

28/04/2020



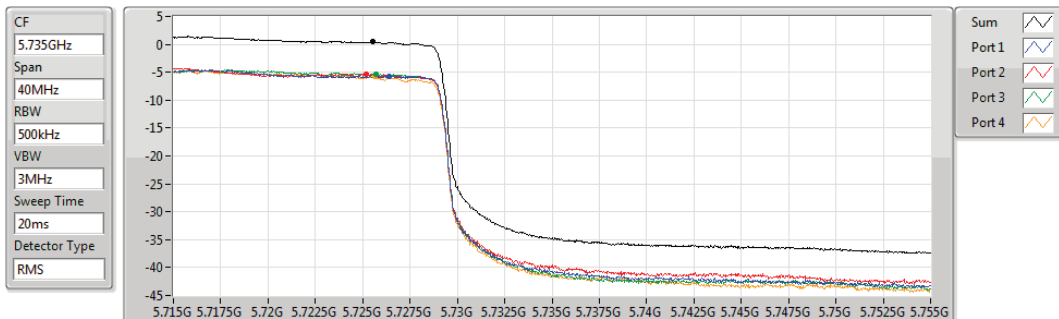
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
4.05	4.05	-1.61	-1.73	-1.69	-2.09

802.11ax HEW80_Nss1,(MCS0)_4TX

PSD

5690MHz Straddle 5.725-5.85GHz

28/04/2020



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
0.42	0.42	-5.67	-5.32	-5.27	-5.79

**Summary**

Mode	PD (dBm/RBW)	EIRP PD (dBm/RBW)
5.25-5.35GHz	-	-
802.11a_Nss1,(6Mbps)_1TX	3.49	9.69
802.11ac VHT20_Nss1,(MCS0)_1TX	3.23	9.43
802.11ac VHT40_Nss1,(MCS0)_1TX	0.22	6.42
802.11ac VHT80_Nss1,(MCS0)_1TX	-11.25	-5.05
5.47-5.725GHz	-	-
802.11a_Nss1,(6Mbps)_1TX	1.98	8.18
802.11ac VHT20_Nss1,(MCS0)_1TX	1.71	7.91
802.11ac VHT40_Nss1,(MCS0)_1TX	-1.00	5.20
802.11ac VHT80_Nss1,(MCS0)_1TX	-4.05	2.15
5.725-5.85GHz	-	-
802.11a_Nss1,(6Mbps)_1TX	-1.82	4.38
802.11ac VHT20_Nss1,(MCS0)_1TX	-2.47	3.73
802.11ac VHT40_Nss1,(MCS0)_1TX	-4.78	1.42
802.11ac VHT80_Nss1,(MCS0)_1TX	-8.85	-2.65

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



Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)	EIRP PD (dBm/RBW)	EIRP PD Limit (dBm/RBW)
802.11a_Nss1,(6Mbps)_1TX	-	-	-	-	-	-	-
5260MHz	Pass	6.20	3.49	3.49	10.80	9.69	17.00
5300MHz	Pass	6.20	2.93	2.93	10.80	9.13	17.00
5320MHz	Pass	6.20	2.56	2.56	10.80	8.76	17.00
5500MHz	Pass	6.20	1.43	1.43	10.80	7.63	17.00
5580MHz	Pass	6.20	1.98	1.98	10.80	8.18	17.00
5700MHz	Pass	6.20	0.63	0.63	10.80	6.83	17.00
5720MHz Straddle 5.47-5.725GHz	Pass	6.20	0.21	0.21	10.80	6.41	17.00
5720MHz Straddle 5.725-5.85GHz	Pass	6.20	-1.82	-1.82	29.80	4.38	36.00
802.11ac VHT20_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-
5260MHz	Pass	6.20	3.23	3.23	10.80	9.43	17.00
5300MHz	Pass	6.20	2.62	2.62	10.80	8.82	17.00
5320MHz	Pass	6.20	2.24	2.24	10.80	8.44	17.00
5500MHz	Pass	6.20	1.09	1.09	10.80	7.29	17.00
5580MHz	Pass	6.20	1.71	1.71	10.80	7.91	17.00
5700MHz	Pass	6.20	0.04	0.04	10.80	6.24	17.00
5720MHz Straddle 5.47-5.725GHz	Pass	6.20	-0.47	-0.47	10.80	5.73	17.00
5720MHz Straddle 5.725-5.85GHz	Pass	6.20	-2.47	-2.47	29.80	3.73	36.00
802.11ac VHT40_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-
5270MHz	Pass	6.20	0.22	0.22	10.80	6.42	17.00
5310MHz	Pass	6.20	-5.67	-5.67	10.80	0.53	17.00
5510MHz	Pass	6.20	-5.53	-5.53	10.80	0.67	17.00
5550MHz	Pass	6.20	-1.00	-1.00	10.80	5.20	17.00
5670MHz	Pass	6.20	-1.99	-1.99	10.80	4.21	17.00
5710MHz Straddle 5.47-5.725GHz	Pass	6.20	-2.42	-2.42	10.80	3.78	17.00
5710MHz Straddle 5.725-5.85GHz	Pass	6.20	-4.78	-4.78	29.80	1.42	36.00
802.11ac VHT80_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-
5290MHz	Pass	6.20	-11.25	-11.25	10.80	-5.05	17.00
5530MHz	Pass	6.20	-9.87	-9.87	10.80	-3.67	17.00
5610MHz	Pass	6.20	-4.05	-4.05	10.80	2.15	17.00
5690MHz Straddle 5.47-5.725GHz	Pass	6.20	-5.14	-5.14	10.80	1.06	17.00
5690MHz Straddle 5.725-5.85GHz	Pass	6.20	-8.85	-8.85	29.80	-2.65	36.00

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

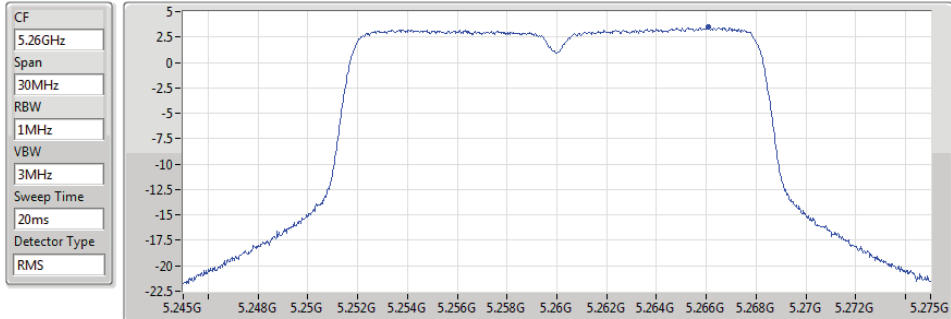
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; Port X = Port X power density;

802.11a_Nss1,(6Mbps)_1TX

PSD

5260MHz

13/05/2020



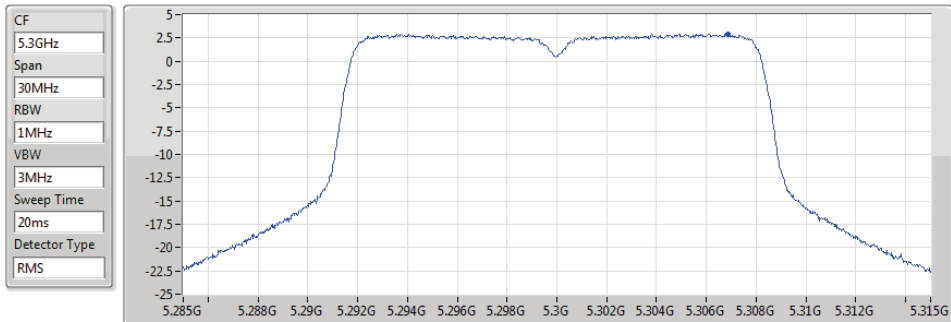
Sum	PD	Port1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
3.49	3.49	3.49

802.11a_Nss1,(6Mbps)_1TX

PSD

5300MHz

13/05/2020



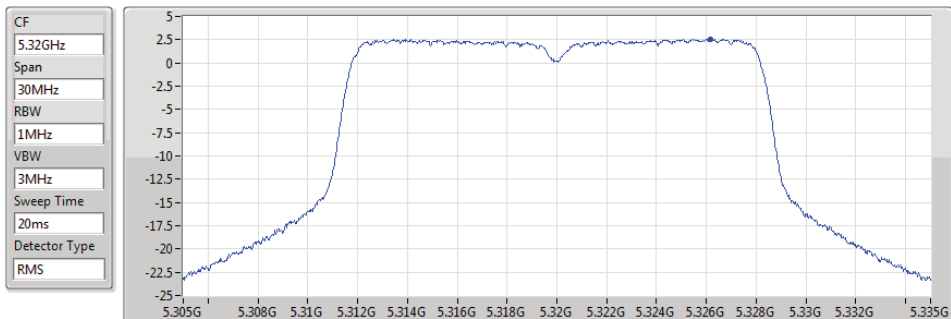
Sum	PD	Port1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
2.93	2.93	2.93

802.11a_Nss1,(6Mbps)_1TX

PSD

5320MHz

13/05/2020



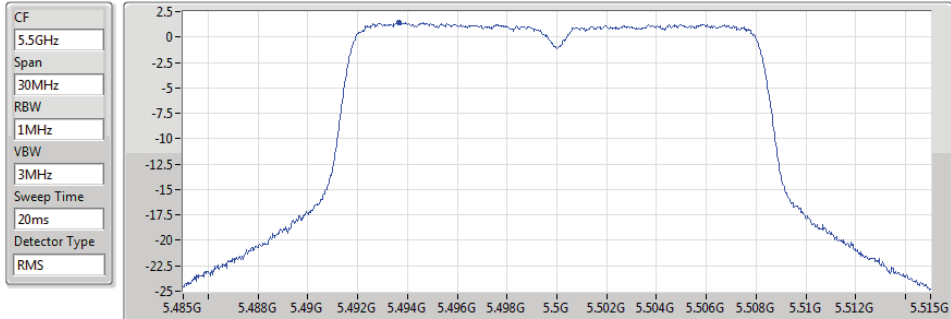
Sum	PD	Port1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
2.56	2.56	2.56

802.11a_Nss1,(6Mbps)_1TX

PSD

5500MHz

13/05/2020



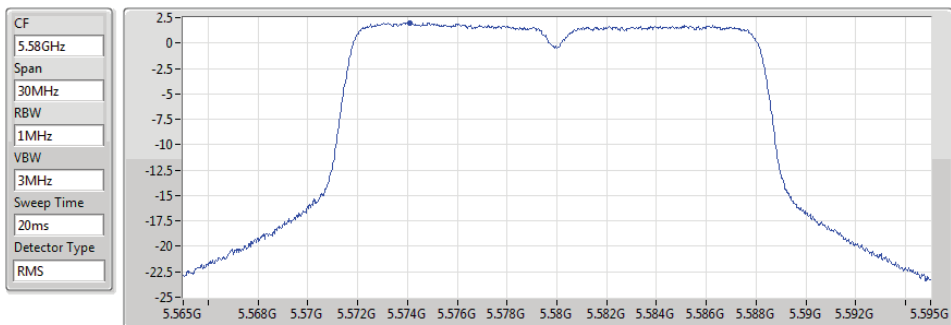
Sum	PD	Port1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
1.43	1.43	1.43

802.11a_Nss1,(6Mbps)_1TX

PSD

5580MHz

13/05/2020



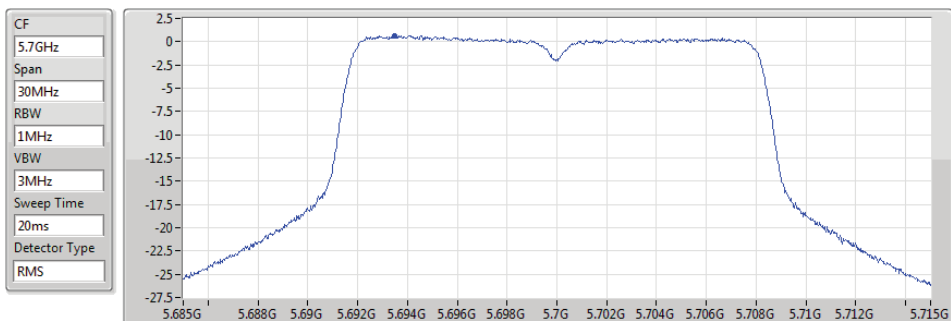
Sum	PD	Port1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
1.98	1.98	1.98

802.11a_Nss1,(6Mbps)_1TX

PSD

5700MHz

13/05/2020



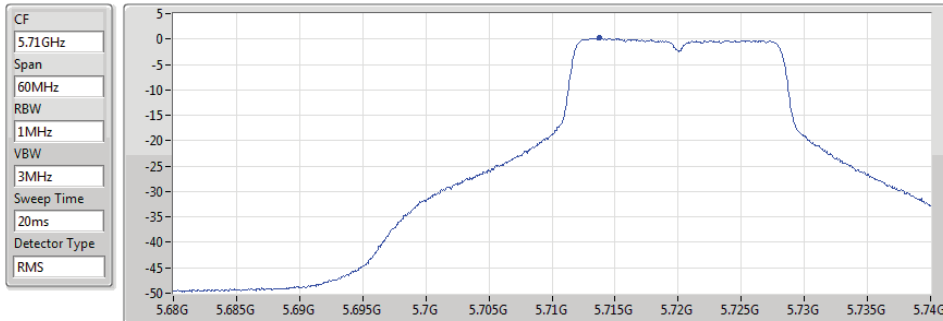
Sum	PD	Port1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
0.63	0.63	0.63

802.11a_Nss1,(6Mbps)_1TX

PSD

5720MHz Straddle 5.47-5.725GHz

18/04/2020



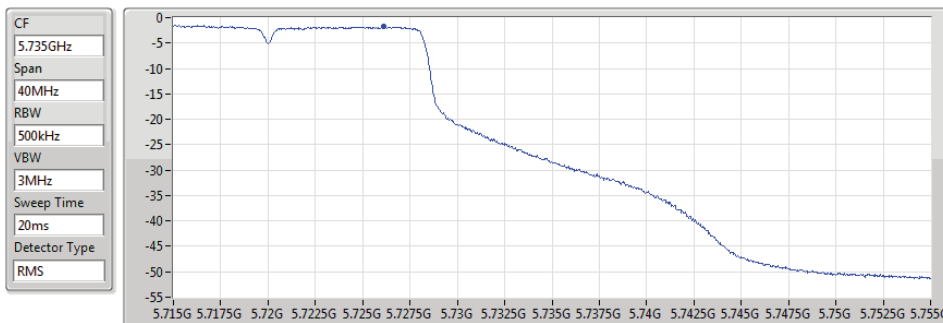
Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
0.21	0.21	0.21

802.11a_Nss1,(6Mbps)_1TX

PSD

5720MHz Straddle 5.725-5.85GHz

18/04/2020



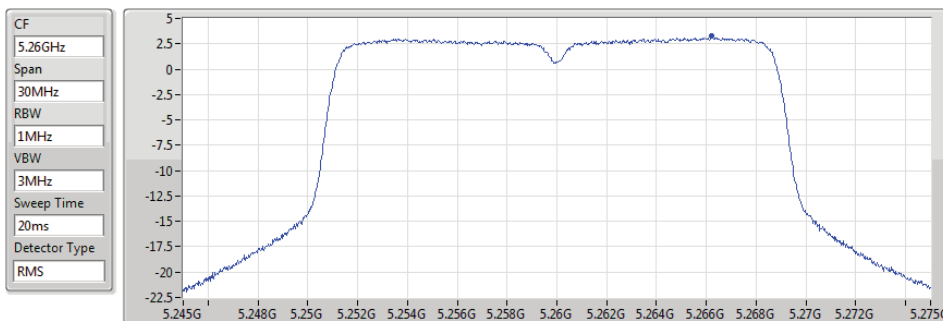
Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-1.82	-1.82	-1.82

802.11ac VHT20_Nss1,(MCS0)_1TX

PSD

5260MHz

13/05/2020



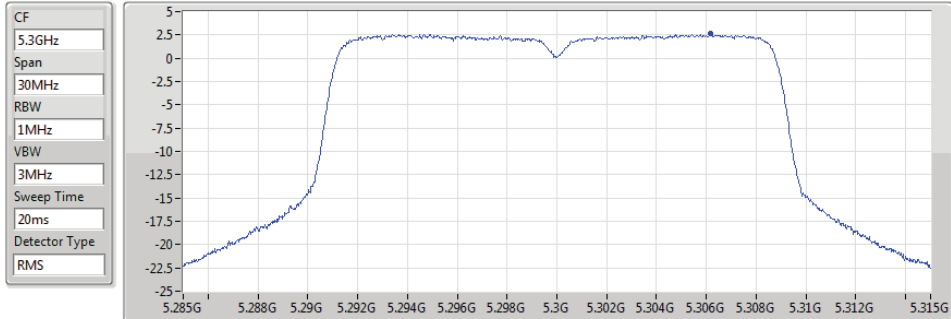
Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
3.23	3.23	3.23

802.11ac VHT20_Nss1,(MCS0)_1TX

PSD

5300MHz

13/05/2020



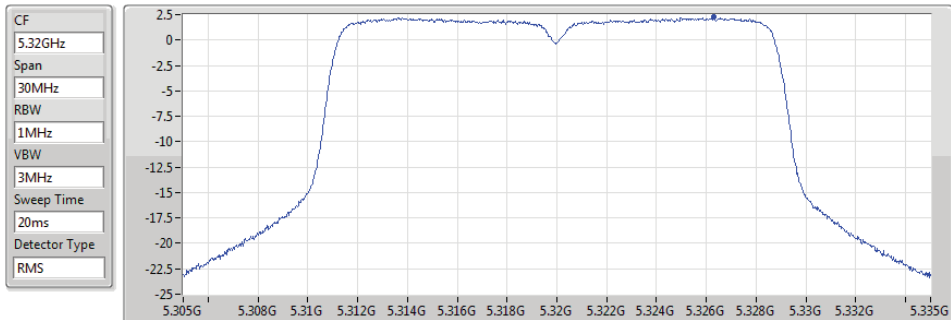
Sum	PD	Port1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
2.62	2.62	2.62

802.11ac VHT20_Nss1,(MCS0)_1TX

PSD

5320MHz

13/05/2020



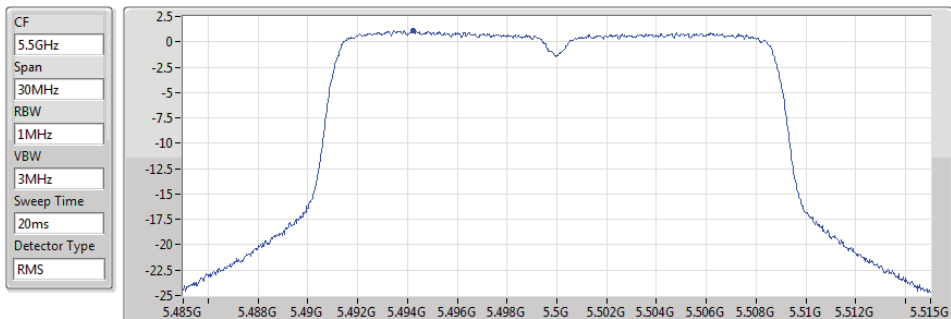
Sum	PD	Port1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
2.24	2.24	2.24

802.11ac VHT20_Nss1,(MCS0)_1TX

PSD

5500MHz

13/05/2020



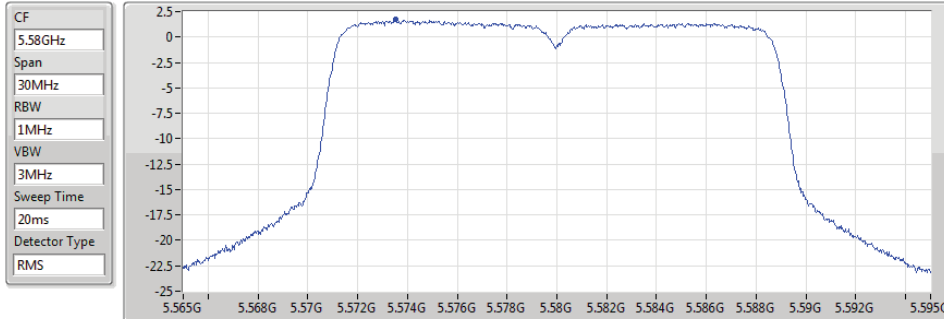
Sum	PD	Port1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
1.09	1.09	1.09

802.11ac VHT20_Nss1,(MCS0)_1TX

PSD

5580MHz

13/05/2020



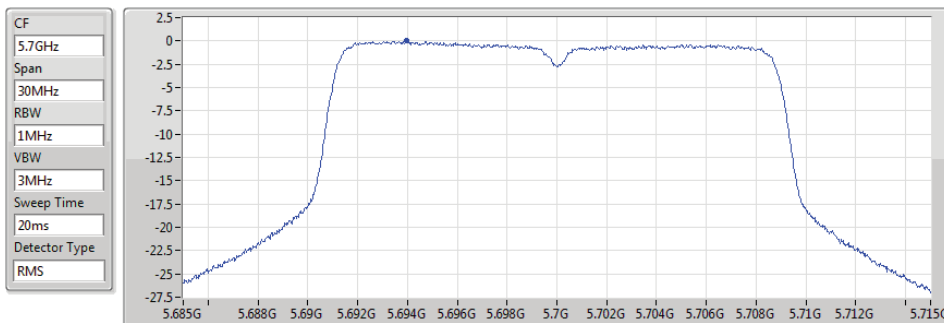
Sum	PD	Port 1
(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)
1.71	1.71	1.71

802.11ac VHT20_Nss1,(MCS0)_1TX

PSD

5700MHz

18/04/2020



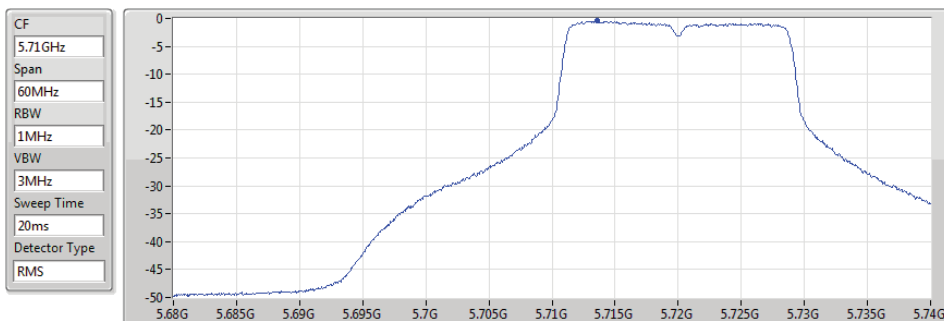
Sum	PD	Port 1
(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)
0.04	0.04	0.04

802.11ac VHT20_Nss1,(MCS0)_1TX

PSD

5720MHz Straddle 5.47-5.725GHz

18/04/2020



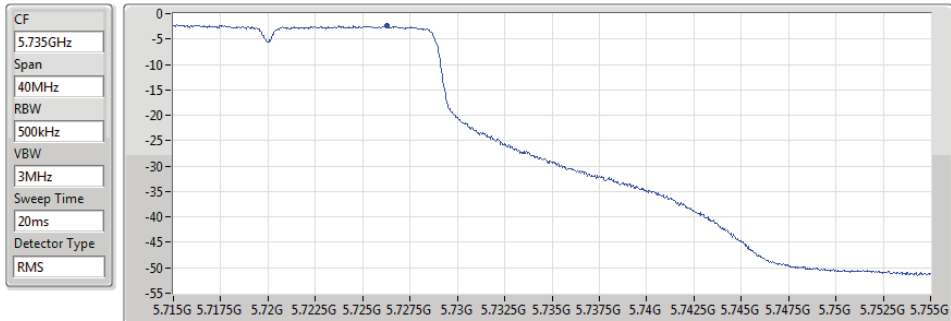
Sum	PD	Port 1
(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)
-0.47	-0.47	-0.47

802.11ac VHT20_Nss1,(MCS0)_1TX

PSD

5720MHz Straddle 5.725-5.85GHz

18/04/2020



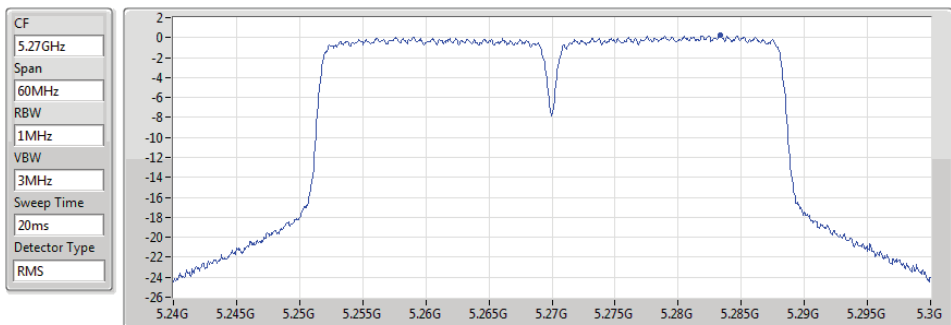
Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-2.47	-2.47	-2.47

802.11ac VHT40_Nss1,(MCS0)_1TX

PSD

5270MHz

13/05/2020



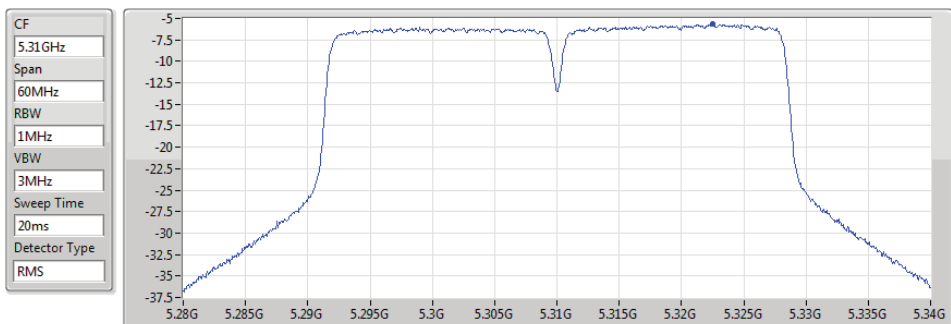
Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
0.22	0.22	0.22

802.11ac VHT40_Nss1,(MCS0)_1TX

PSD

5310MHz

18/04/2020



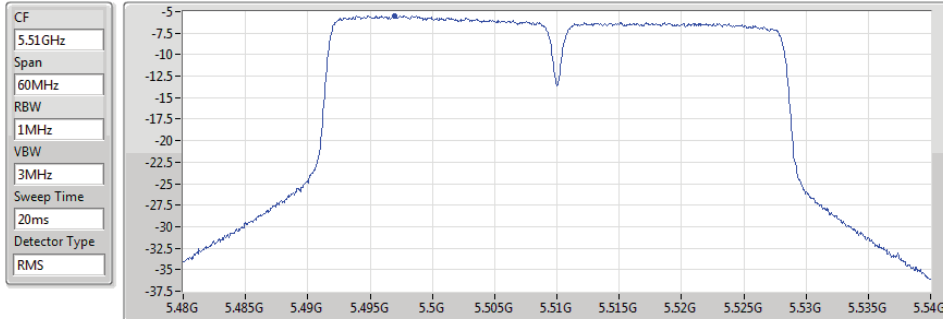
Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
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802.11ac VHT40_Nss1,(MCS0)_1TX

PSD

5510MHz

18/04/2020



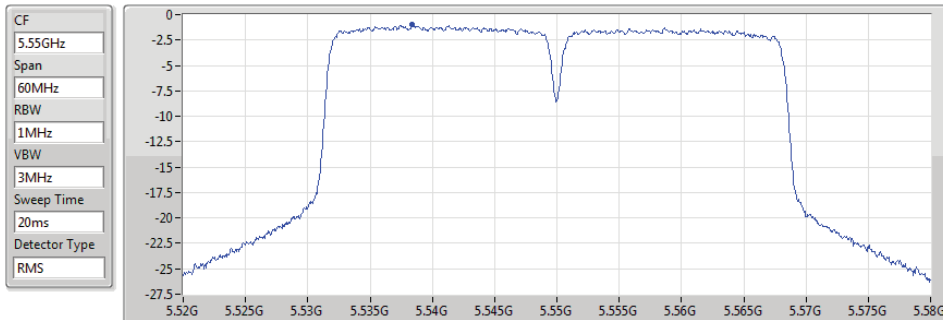
Sum	PD	Port 1
(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)
-5.53	-5.53	-5.53

802.11ac VHT40_Nss1,(MCS0)_1TX

PSD

5550MHz

13/05/2020



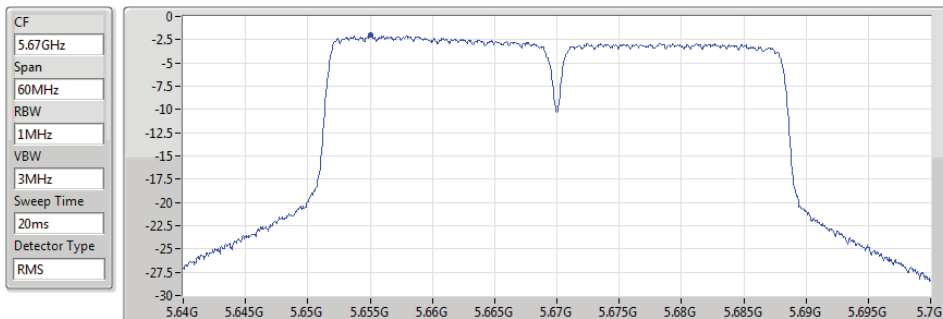
Sum	PD	Port 1
(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)
-1.00	-1.00	-1.00

802.11ac VHT40_Nss1,(MCS0)_1TX

PSD

5670MHz

13/05/2020



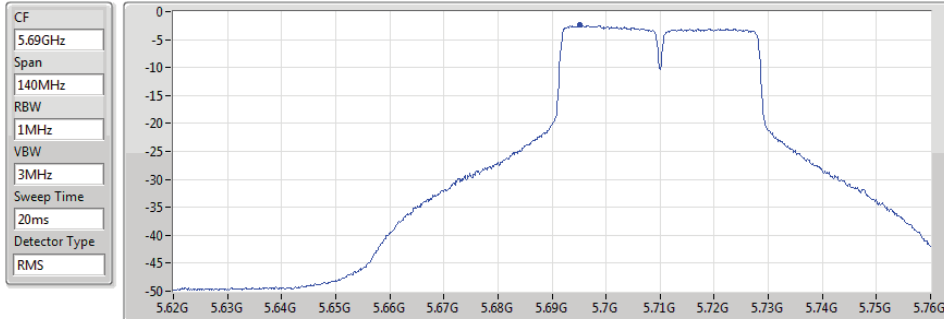
Sum	PD	Port 1
(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)
-1.99	-1.99	-1.99

802.11ac VHT40_Nss1,(MCS0)_1TX

PSD

5710MHz Straddle 5.47-5.725GHz

13/05/2020



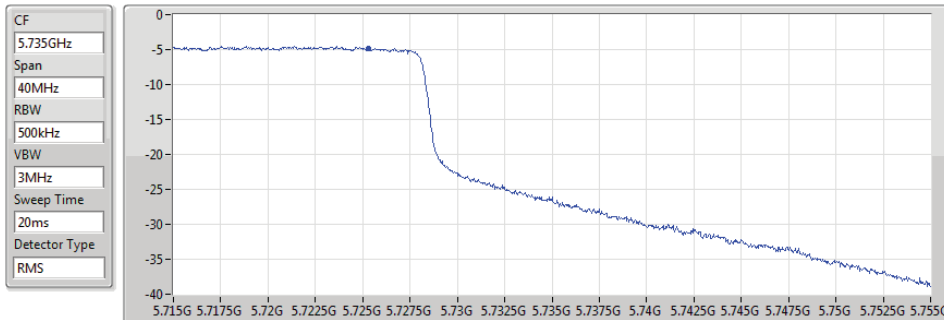
Sum	PD	Port1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-2.42	-2.42	-2.42

802.11ac VHT40_Nss1,(MCS0)_1TX

PSD

5710MHz Straddle 5.725-5.85GHz

13/05/2020



Sum	PD	Port1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-4.78	-4.78	-4.78

802.11ac VHT80_Nss1,(MCS0)_1TX

PSD

5290MHz

18/04/2020



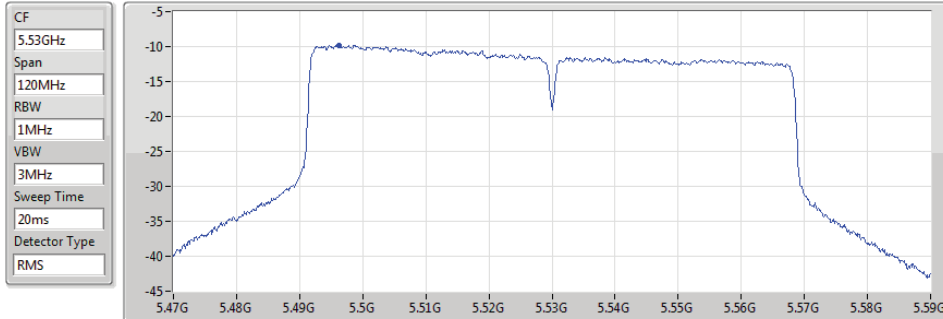
Sum	PD	Port1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-11.25	-11.25	-11.25

802.11ac VHT80_Nss1,(MCS0)_1TX

PSD

5530MHz

18/04/2020



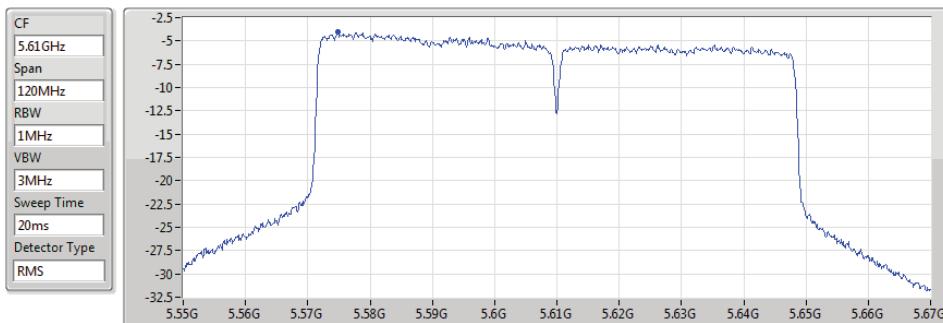
Sum	PD	Port 1
(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)
-9.87	-9.87	-9.87

802.11ac VHT80_Nss1,(MCS0)_1TX

PSD

5610MHz

13/05/2020



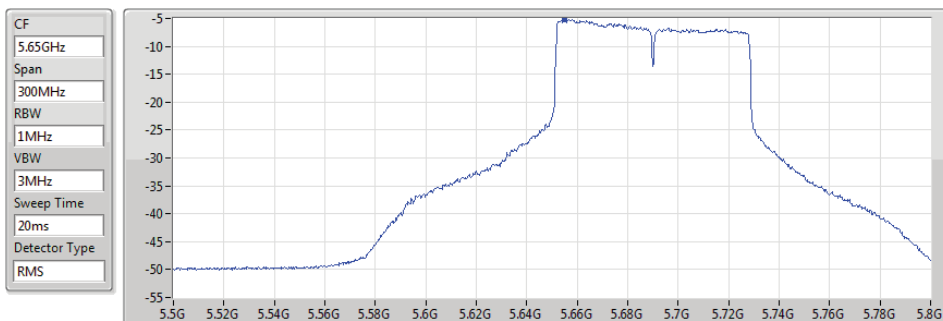
Sum	PD	Port 1
(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)
-4.05	-4.05	-4.05

802.11ac VHT80_Nss1,(MCS0)_1TX

PSD

5690MHz Straddle 5.47-5.725GHz

13/05/2020



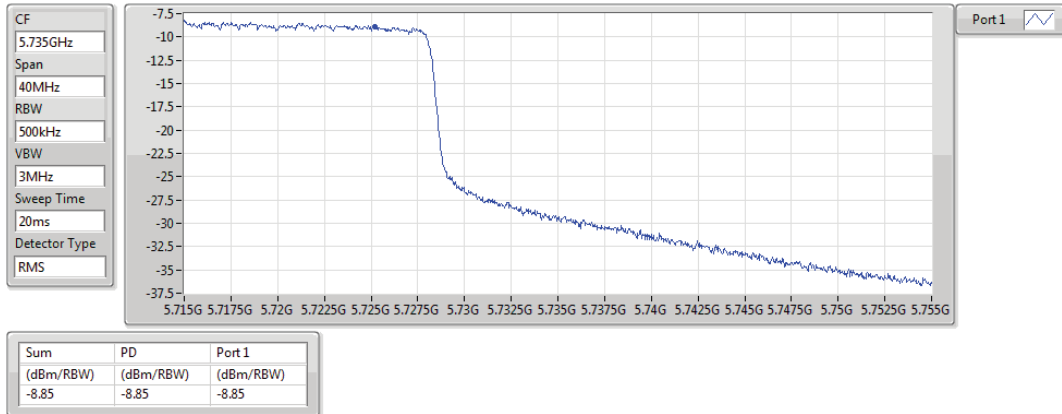
Sum	PD	Port 1
(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)
-5.14	-5.14	-5.14

802.11ac VHT80_Nss1,(MCS0)_1TX

PSD

5690MHz Straddle 5.725-5.85GHz

13/05/2020



**Summary**

Mode	PD (dBm/RBW)	EIRP PD (dBm/RBW)
5.25-5.35GHz	-	-
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	3.96	15.58
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	1.29	12.91
802.11ac VHT80-BF_Nss1,(MCS0)_4TX	-1.35	10.27
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	3.99	15.61
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	1.42	13.04
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	-1.62	10.00
5.47-5.725GHz	-	-
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	4.15	15.77
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	1.34	12.96
802.11ac VHT80-BF_Nss1,(MCS0)_4TX	-1.68	9.94
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	4.00	15.62
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	1.38	13.00
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	-1.89	9.73
5.725-5.85GHz	-	-
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	0.65	12.27
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	-1.76	9.86
802.11ac VHT80-BF_Nss1,(MCS0)_4TX	-5.48	6.14
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	1.82	13.44
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	-1.61	10.01
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	-5.43	6.19

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

**Result**

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	Port 3 (dBm/RBW)	Port 4 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)	EIRP PD (dBm/RBW)	EIRP PD Limit (dBm/RBW)
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5260MHz	Pass	11.62	-2.27	-1.83	-1.69	-1.80	3.93	5.38	15.55	17.00
5300MHz	Pass	11.62	-2.34	-1.95	-1.57	-1.79	3.85	5.38	15.47	17.00
5320MHz	Pass	11.62	-2.47	-1.79	-1.30	-2.12	3.96	5.38	15.58	17.00
5500MHz	Pass	11.62	-2.18	-1.59	-1.24	-1.66	4.09	5.38	15.71	17.00
5580MHz	Pass	11.62	-2.29	-1.76	-1.52	-2.44	3.80	5.38	15.42	17.00
5700MHz	Pass	11.62	-2.12	-1.51	-1.54	-1.96	4.15	5.38	15.77	17.00
5720MHz Straddle 5.47-5.725GHz	Pass	11.62	-3.24	-2.74	-2.79	-3.76	2.70	5.38	14.32	17.00
5720MHz Straddle 5.725-5.85GHz	Pass	11.62	-5.51	-5.03	-4.84	-5.64	0.65	24.38	12.27	36.00
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5270MHz	Pass	11.62	-4.79	-4.63	-4.19	-4.47	1.27	5.38	12.89	17.00
5310MHz	Pass	11.62	-5.04	-4.63	-4.06	-4.41	1.29	5.38	12.91	17.00
5510MHz	Pass	11.62	-4.95	-4.49	-4.21	-4.48	1.33	5.38	12.95	17.00
5550MHz	Pass	11.62	-4.93	-4.67	-4.34	-4.82	1.16	5.38	12.78	17.00
5670MHz	Pass	11.62	-4.92	-4.27	-4.01	-4.84	1.34	5.38	12.96	17.00
5710MHz Straddle 5.47-5.725GHz	Pass	11.62	-5.05	-4.26	-4.31	-5.23	1.14	5.38	12.76	17.00
5710MHz Straddle 5.725-5.85GHz	Pass	11.62	-8.00	-7.48	-7.25	-8.06	-1.76	24.38	9.86	36.00
802.11ac VHT80-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5290MHz	Pass	11.62	-7.18	-7.10	-7.11	-7.05	-1.35	5.38	10.27	17.00
5530MHz	Pass	11.62	-8.15	-8.41	-8.28	-8.23	-2.47	5.38	9.15	17.00
5610MHz	Pass	11.62	-8.86	-8.59	-8.77	-8.83	-3.00	5.38	8.62	17.00
5690MHz Straddle 5.47-5.725GHz	Pass	11.62	-7.42	-7.53	-7.33	-7.75	-1.68	5.38	9.94	17.00
5690MHz Straddle 5.725-5.85GHz	Pass	11.62	-11.38	-11.78	-11.03	-11.49	-5.48	24.38	6.14	36.00
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5260MHz	Pass	11.62	-2.55	-2.08	-1.43	-1.91	3.93	5.38	15.55	17.00
5300MHz	Pass	11.62	-2.67	-1.86	-1.49	-1.46	3.99	5.38	15.61	17.00
5320MHz	Pass	11.62	-2.36	-1.87	-1.67	-2.15	3.79	5.38	15.41	17.00
5500MHz	Pass	11.62	-2.30	-1.73	-1.41	-1.79	4.00	5.38	15.62	17.00
5580MHz	Pass	11.62	-2.54	-2.25	-1.90	-2.21	3.57	5.38	15.19	17.00
5700MHz	Pass	11.62	-2.29	-1.43	-1.33	-2.58	3.94	5.38	15.56	17.00
5720MHz Straddle 5.47-5.725GHz	Pass	11.62	-2.42	-1.96	-1.91	-2.27	3.66	5.38	15.28	17.00
5720MHz Straddle 5.725-5.85GHz	Pass	11.62	-4.37	-3.85	-3.93	-4.56	1.82	24.38	13.44	36.00
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5270MHz	Pass	11.62	-4.62	-4.45	-4.32	-4.41	1.42	5.38	13.04	17.00
5310MHz	Pass	11.62	-4.93	-4.70	-4.14	-4.46	1.26	5.38	12.88	17.00
5510MHz	Pass	11.62	-4.86	-4.35	-4.13	-4.45	1.38	5.38	13.00	17.00
5550MHz	Pass	11.62	-4.79	-4.63	-4.51	-4.57	1.20	5.38	12.82	17.00
5670MHz	Pass	11.62	-5.02	-4.45	-3.81	-4.56	1.33	5.38	12.95	17.00
5710MHz Straddle 5.47-5.725GHz	Pass	11.62	-5.12	-4.01	-4.20	-5.29	1.10	5.38	12.72	17.00
5710MHz Straddle 5.725-5.85GHz	Pass	11.62	-7.88	-7.17	-7.05	-8.05	-1.61	24.38	10.01	36.00
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5290MHz	Pass	11.62	-7.32	-7.19	-7.33	-7.49	-1.62	5.38	10.00	17.00
5530MHz	Pass	11.62	-7.38	-7.81	-7.84	-7.81	-1.89	5.38	9.73	17.00
5610MHz	Pass	11.62	-8.15	-8.39	-8.46	-8.71	-2.67	5.38	8.95	17.00



Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	Port 3 (dBm/RBW)	Port 4 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)	EIRP PD (dBm/RBW)	EIRP PD Limit (dBm/RBW)
5690MHz Straddle 5.47-5.725GHz	Pass	11.62	-7.79	-7.74	-7.64	-8.21	-2.18	5.38	9.44	17.00
5690MHz Straddle 5.725-5.85GHz	Pass	11.62	-11.19	-11.43	-11.08	-11.63	-5.43	24.38	6.19	36.00

DG = Directional Gain; **RBW** = 500 kHz for 5.725-5.85GHz band / 1MHz for other band;

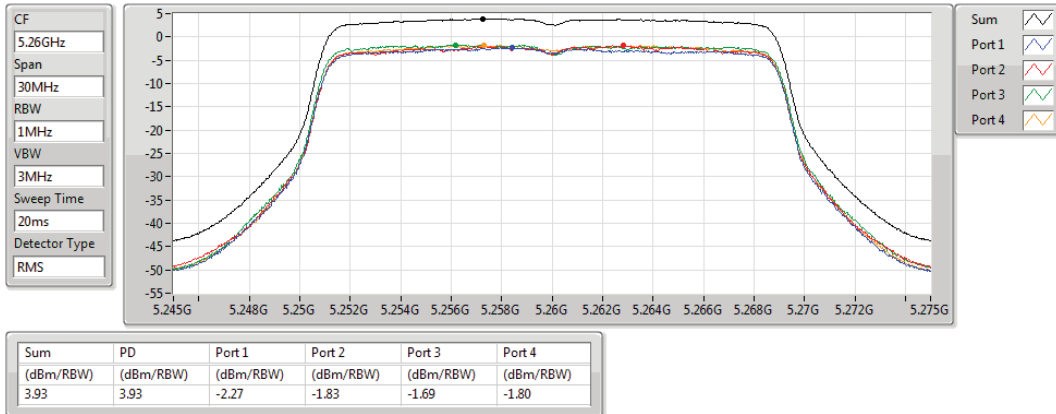
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; **Port X** = Port X power density;

802.11ac VHT20-BF_Nss1,(MCS0)_4TX

5260MHz

PSD

05/05/2020

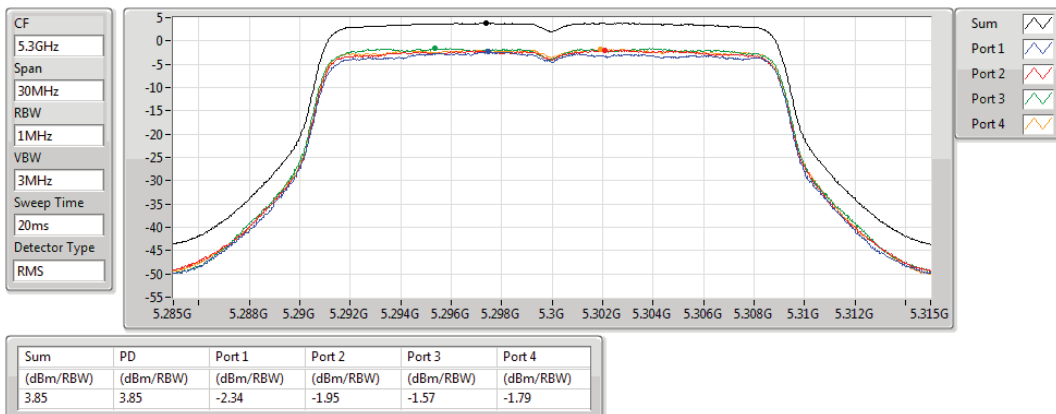


802.11ac VHT20-BF_Nss1,(MCS0)_4TX

5300MHz

PSD

05/05/2020

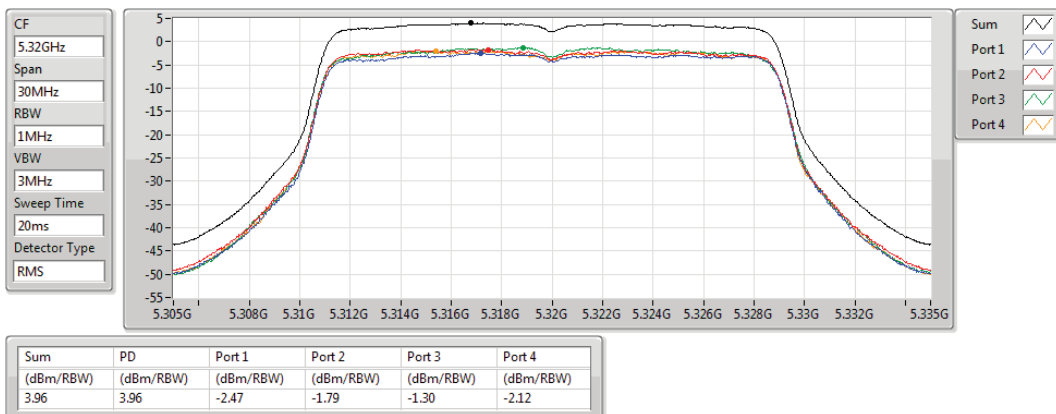


802.11ac VHT20-BF_Nss1,(MCS0)_4TX

5320MHz

PSD

05/05/2020

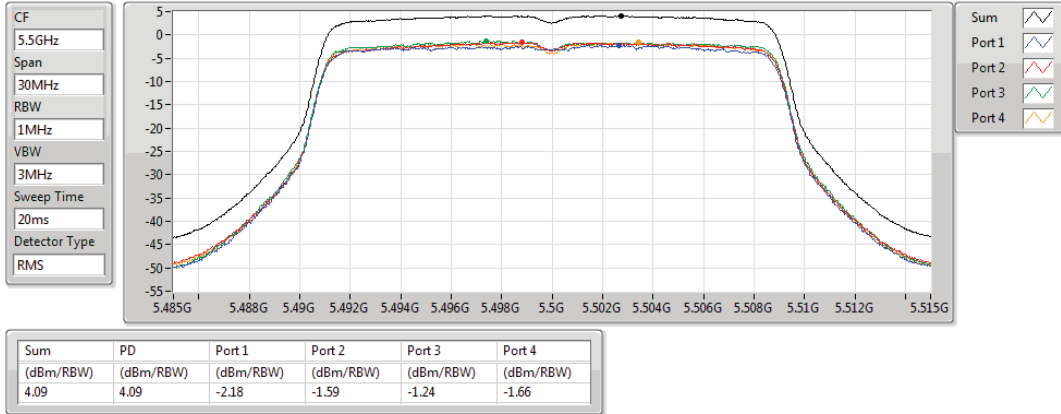


802.11ac VHT20-BF_Nss1,(MCS0)_4TX

5500MHz

PSD

06/05/2020

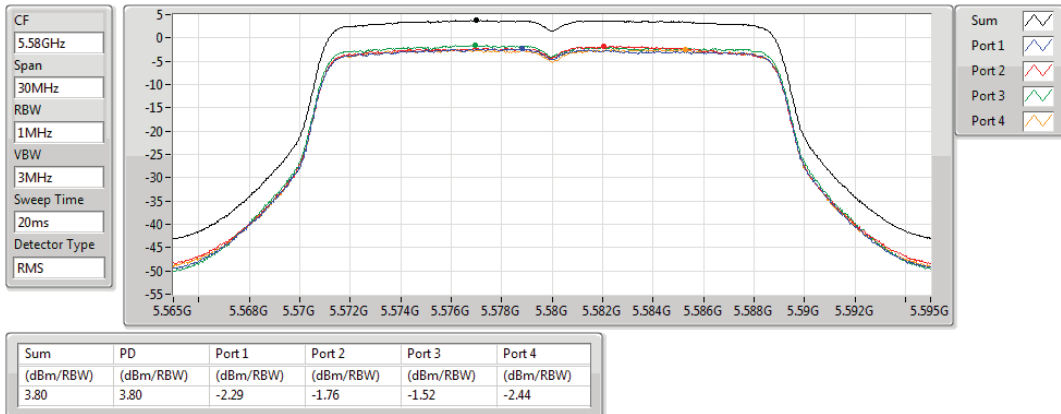


802.11ac VHT20-BF_Nss1,(MCS0)_4TX

5580MHz

PSD

06/05/2020

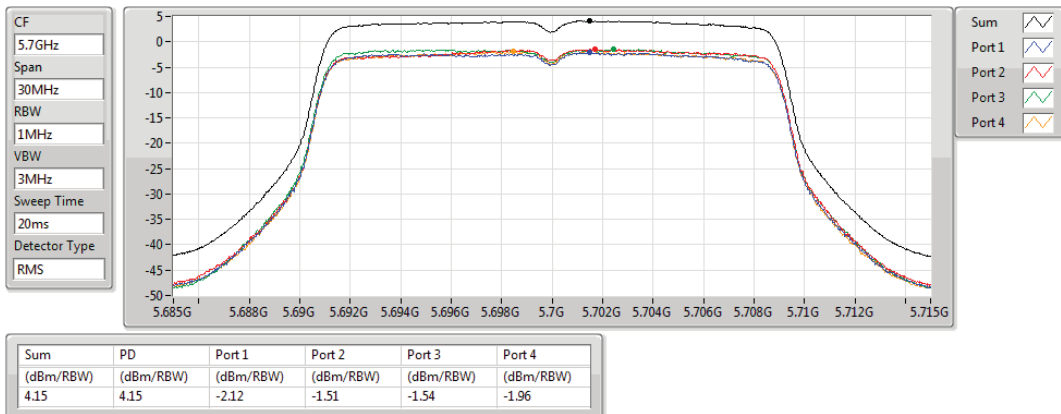


802.11ac VHT20-BF_Nss1,(MCS0)_4TX

5700MHz

PSD

06/05/2020

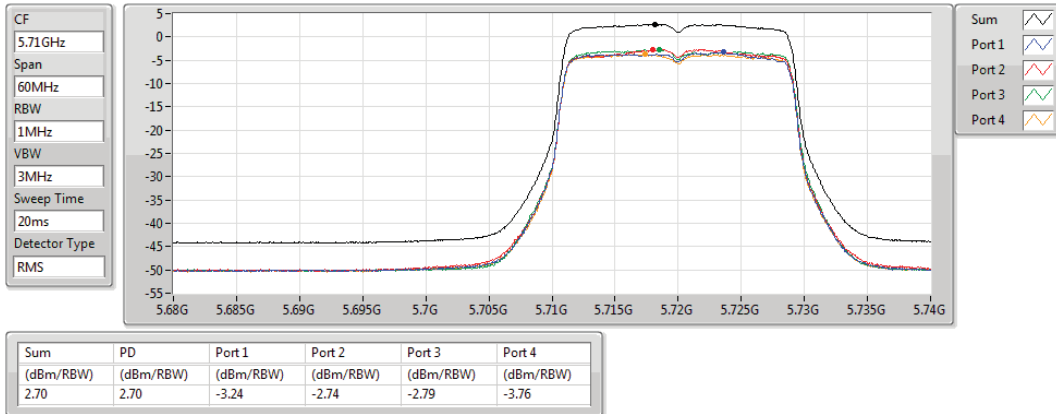


802.11ac VHT20-BF_Nss1,(MCS0)_4TX

5720MHz Straddle 5.47-5.725GHz

PSD

06/05/2020

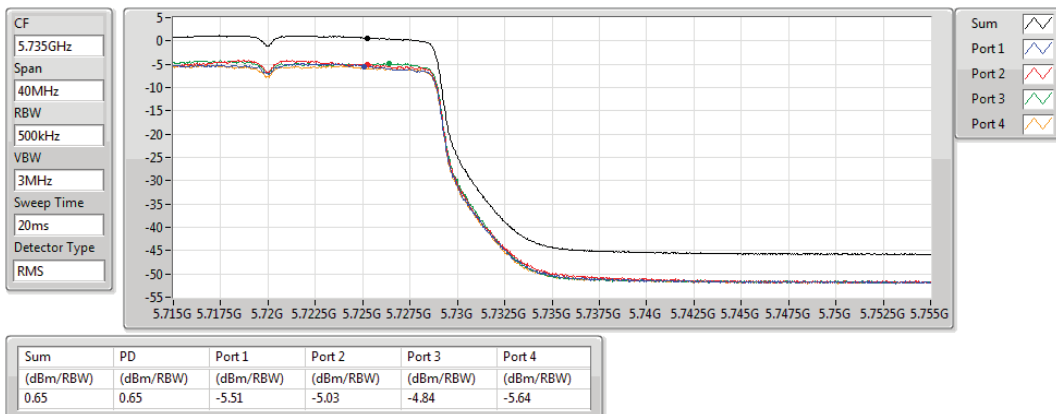


802.11ac VHT20-BF_Nss1,(MCS0)_4TX

5720MHz Straddle 5.725-5.85GHz

PSD

06/05/2020

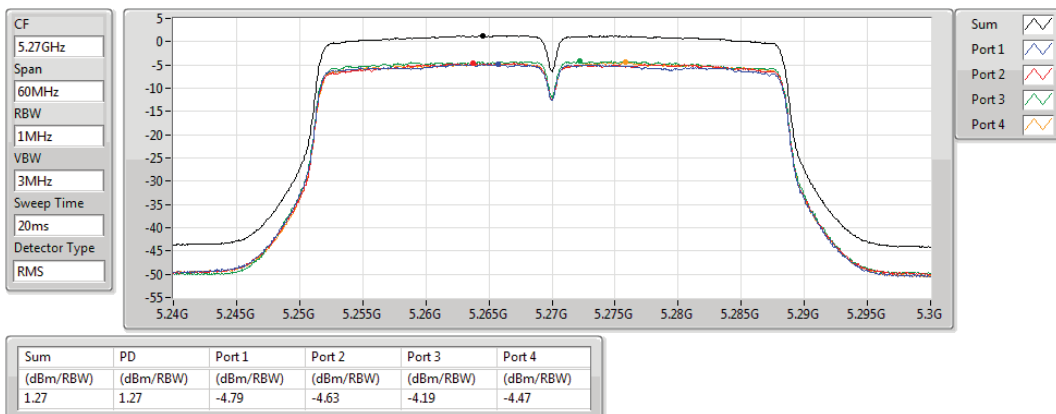


802.11ac VHT40-BF_Nss1,(MCS0)_4TX

5270MHz

PSD

06/05/2020

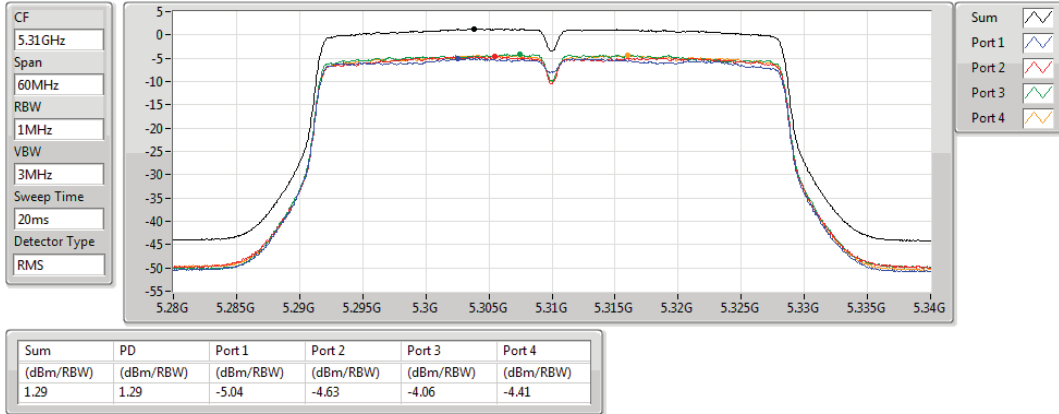


802.11ac VHT40-BF_Nss1,(MCS0)_4TX

PSD

5310MHz

06/05/2020

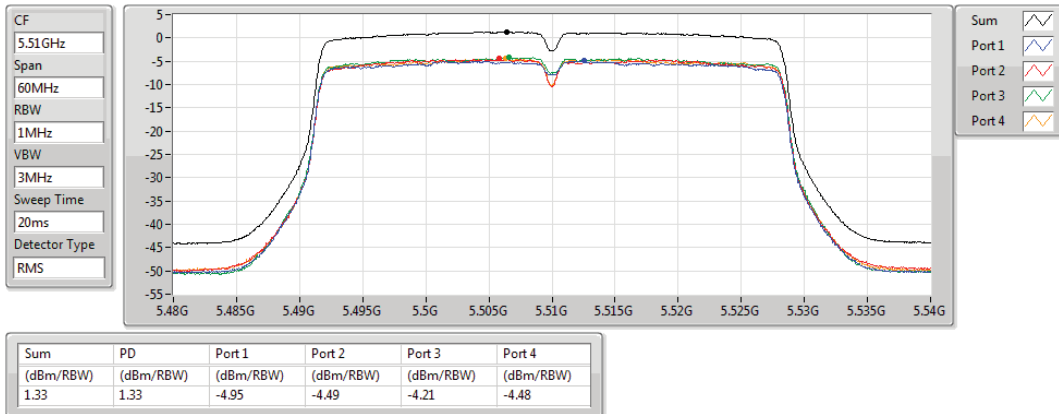


802.11ac VHT40-BF_Nss1,(MCS0)_4TX

PSD

5510MHz

06/05/2020

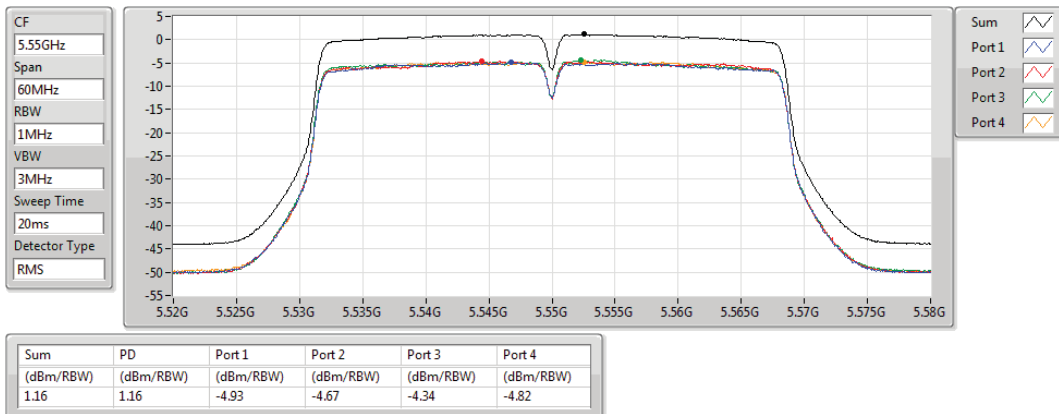


802.11ac VHT40-BF_Nss1,(MCS0)_4TX

PSD

5550MHz

06/05/2020

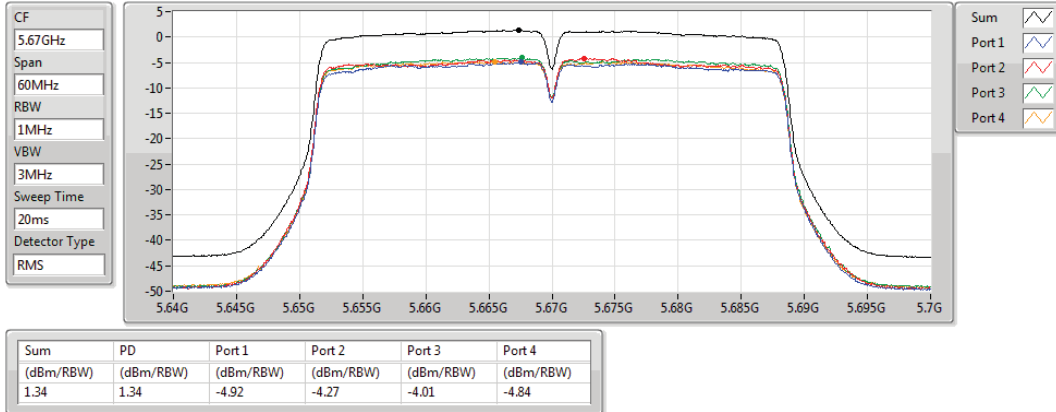


802.11ac VHT40-BF_Nss1,(MCS0)_4TX

PSD

5670MHz

06/05/2020

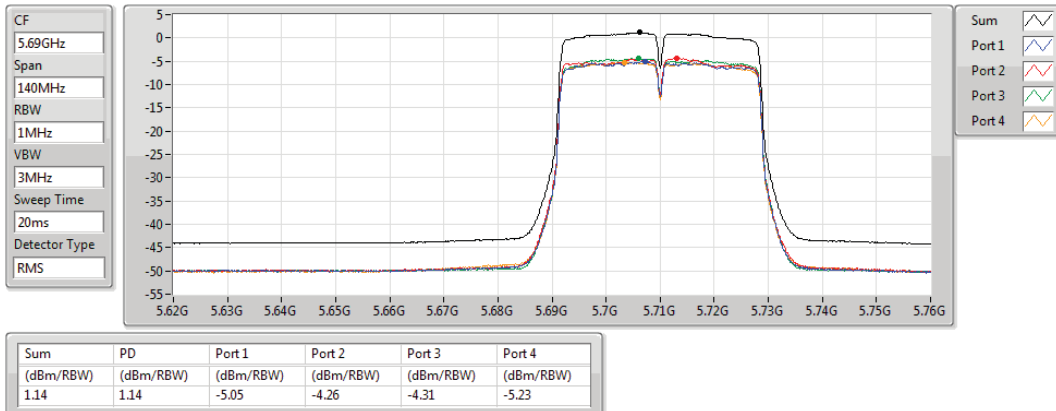


802.11ac VHT40-BF_Nss1,(MCS0)_4TX

PSD

5710MHz Straddle 5.47-5.725GHz

06/05/2020

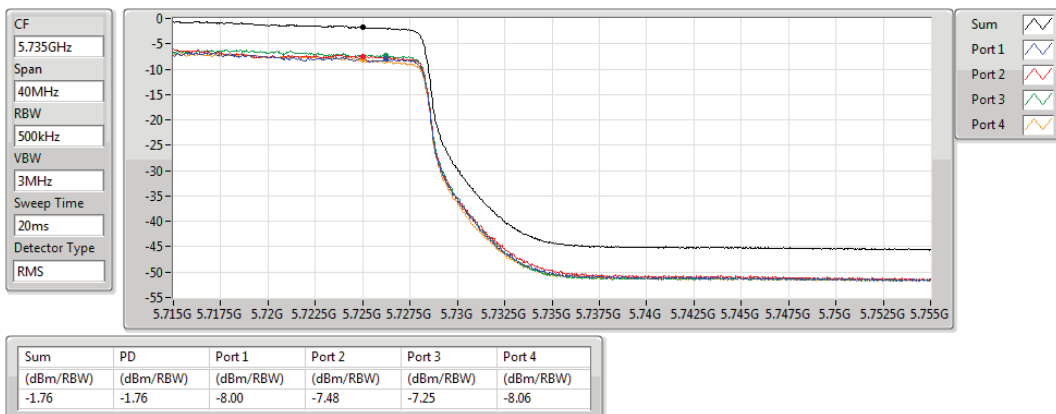


802.11ac VHT40-BF_Nss1,(MCS0)_4TX

PSD

5710MHz Straddle 5.725-5.85GHz

06/05/2020

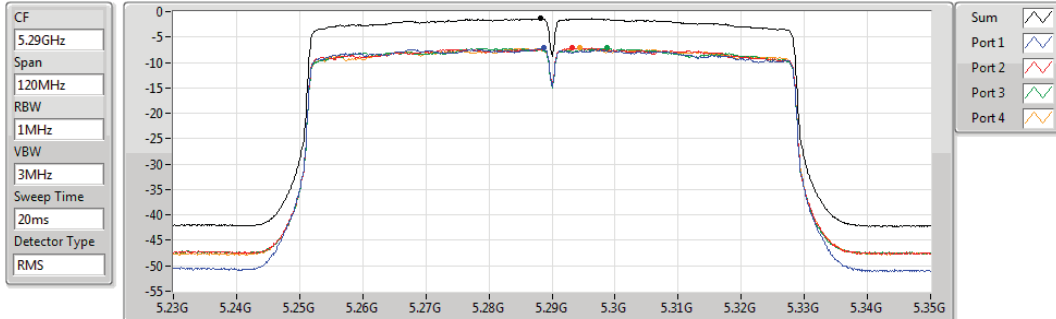


802.11ac VHT80-BF_Nss1,(MCS0)_4TX

PSD

5290MHz

13/05/2020



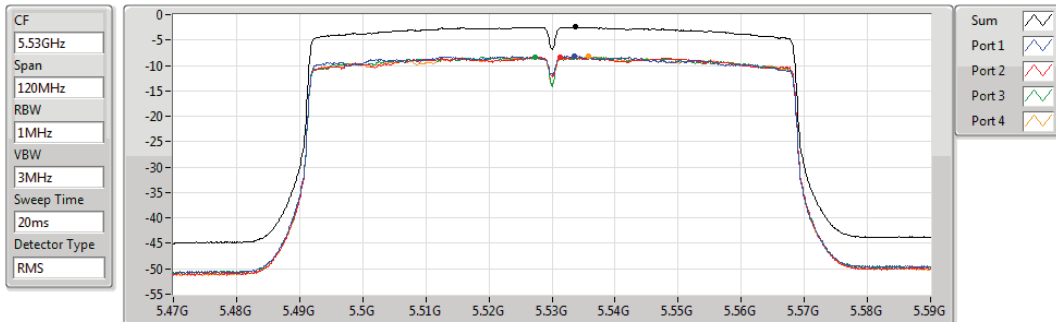
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
-1.35	-1.35	-7.18	-7.10	-7.11	-7.05

802.11ac VHT80-BF_Nss1,(MCS0)_4TX

PSD

5530MHz

13/05/2020



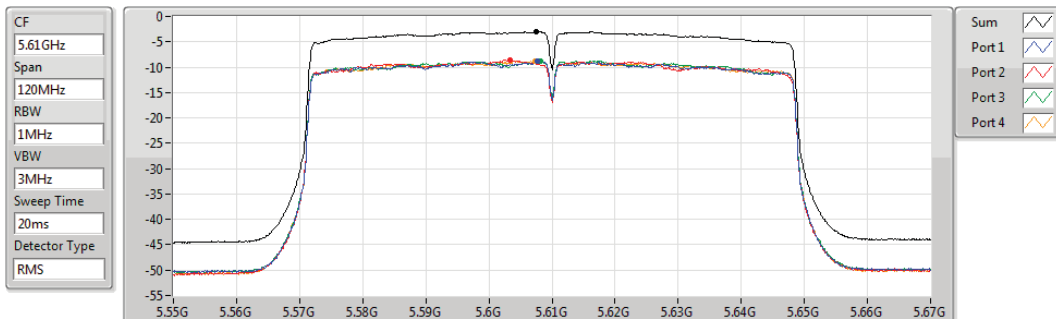
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
-2.47	-2.47	-8.15	-8.41	-8.28	-8.23

802.11ac VHT80-BF_Nss1,(MCS0)_4TX

PSD

5610MHz

13/05/2020



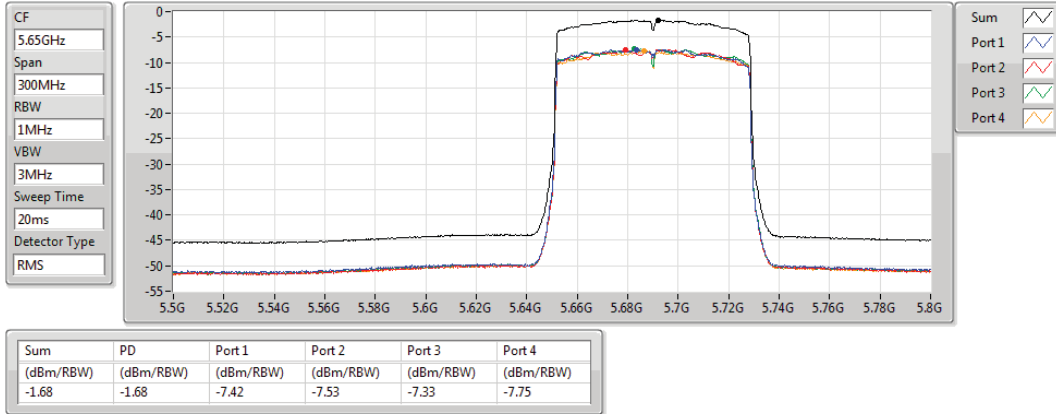
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
-3.00	-3.00	-8.86	-8.59	-8.77	-8.83

802.11ac VHT80-BF_Nss1,(MCS0)_4TX

5690MHz Straddle 5.47-5.725GHz

PSD

13/05/2020

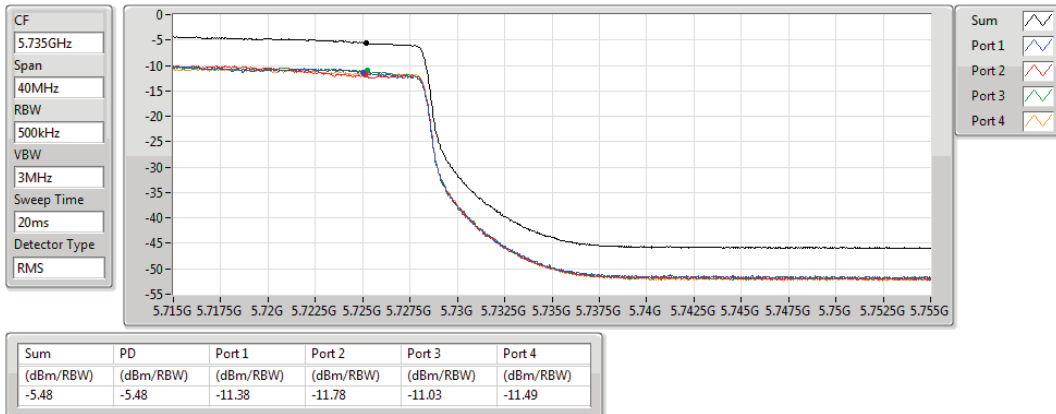


802.11ac VHT80-BF_Nss1,(MCS0)_4TX

5690MHz Straddle 5.725-5.85GHz

PSD

13/05/2020

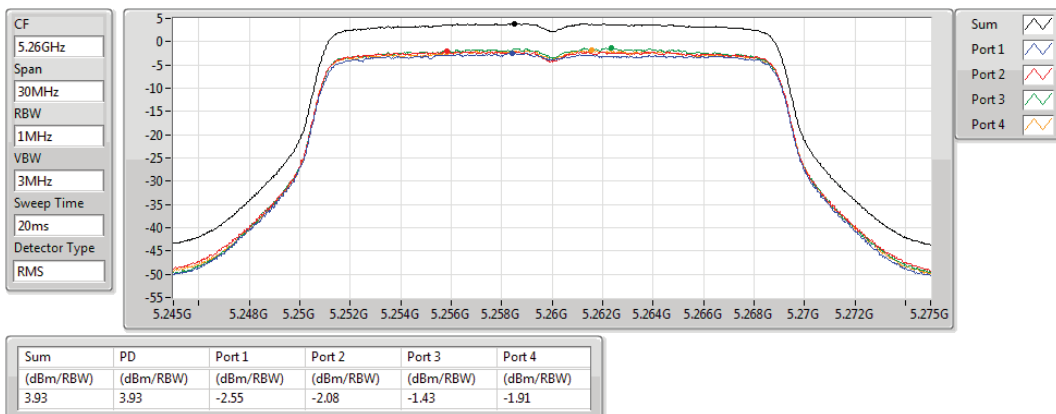


802.11ax HEW20-BF_Nss1,(MCS0)_4TX

5260MHz

PSD

05/05/2020

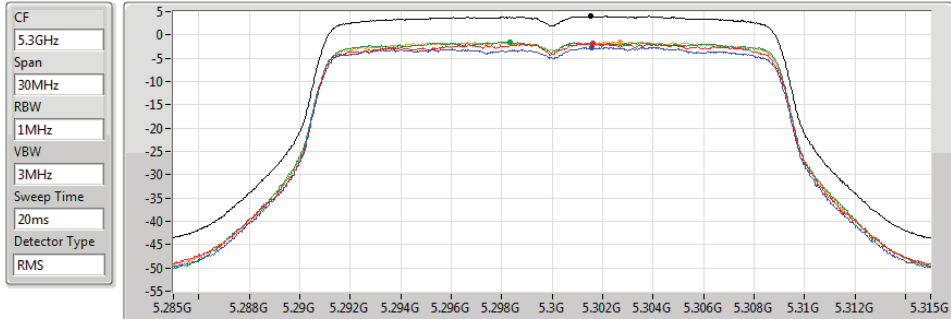


802.11ax HEW20-BF_Nss1,(MCS0)_4TX

5300MHz

PSD

05/05/2020



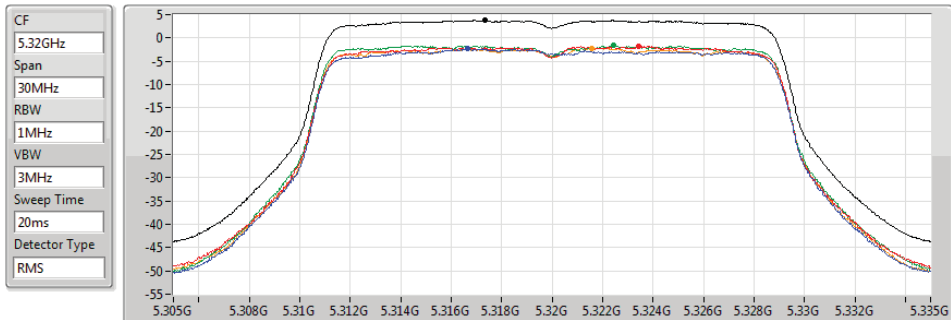
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
3.99	3.99	-2.67	-1.86	-1.49	-1.46

802.11ax HEW20-BF_Nss1,(MCS0)_4TX

5320MHz

PSD

05/05/2020



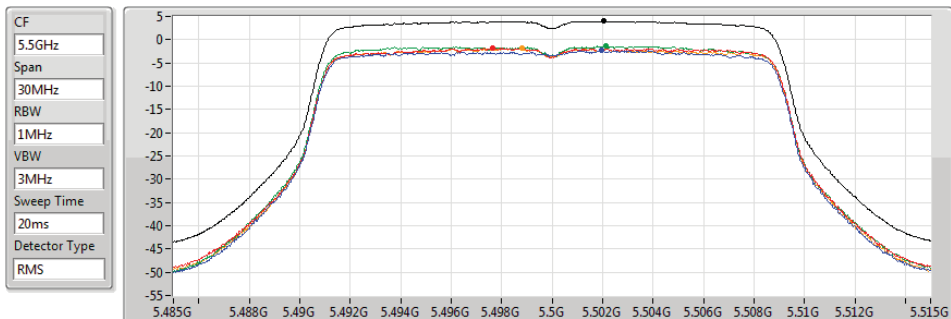
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
3.79	3.79	-2.36	-1.87	-1.67	-2.15

802.11ax HEW20-BF_Nss1,(MCS0)_4TX

5500MHz

PSD

05/05/2020



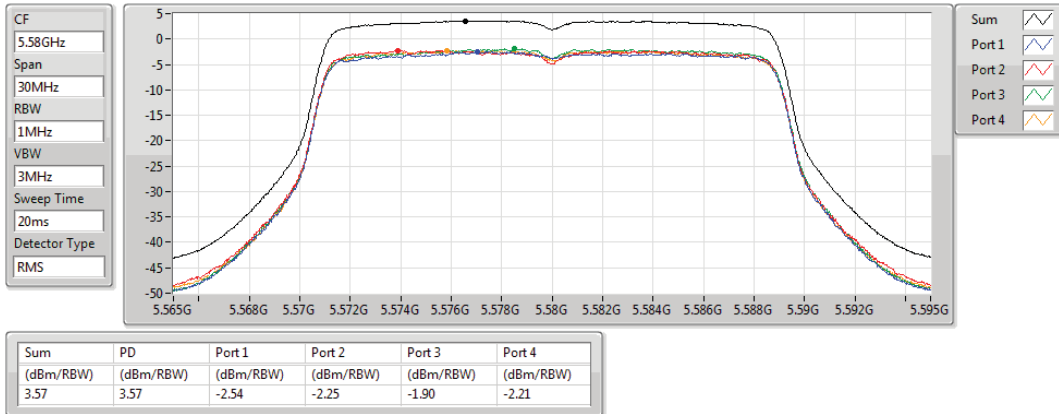
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
4.00	4.00	-2.30	-1.73	-1.41	-1.79

802.11ax HEW20-BF_Nss1,(MCS0)_4TX

5580MHz

PSD

05/05/2020

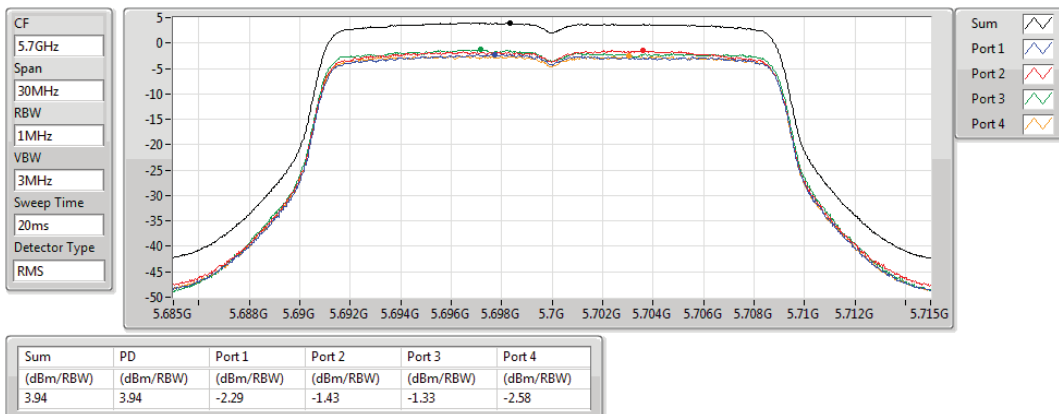


802.11ax HEW20-BF_Nss1,(MCS0)_4TX

5700MHz

PSD

05/05/2020

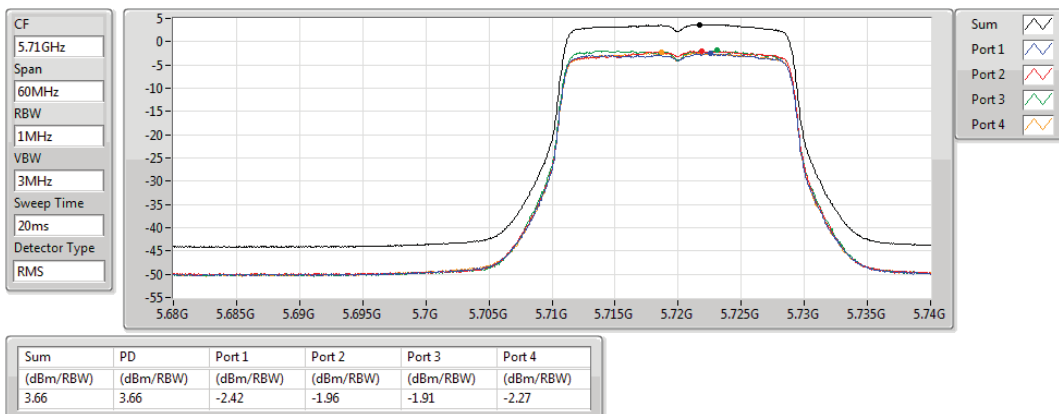


802.11ax HEW20-BF_Nss1,(MCS0)_4TX

5720MHz Straddle 5.47-5.725GHz

PSD

05/05/2020

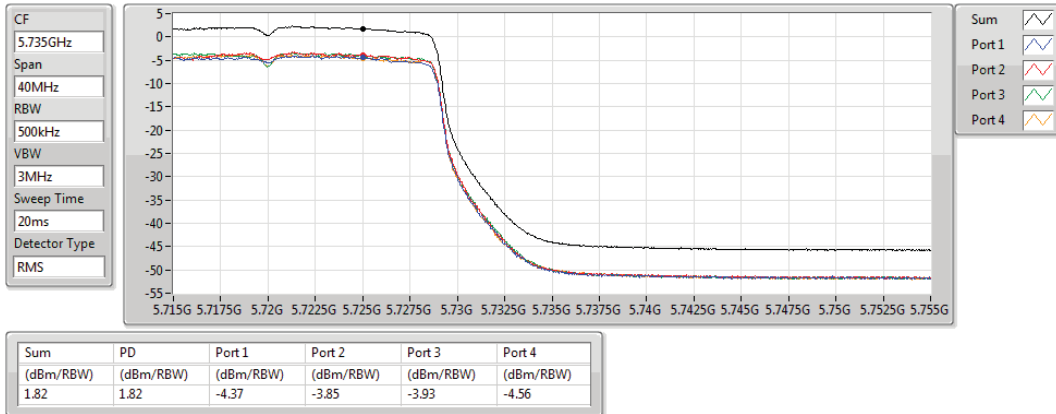


802.11ax HEW20-BF_Nss1,(MCS0)_4TX

PSD

5720MHz Straddle 5.725-5.85GHz

05/05/2020

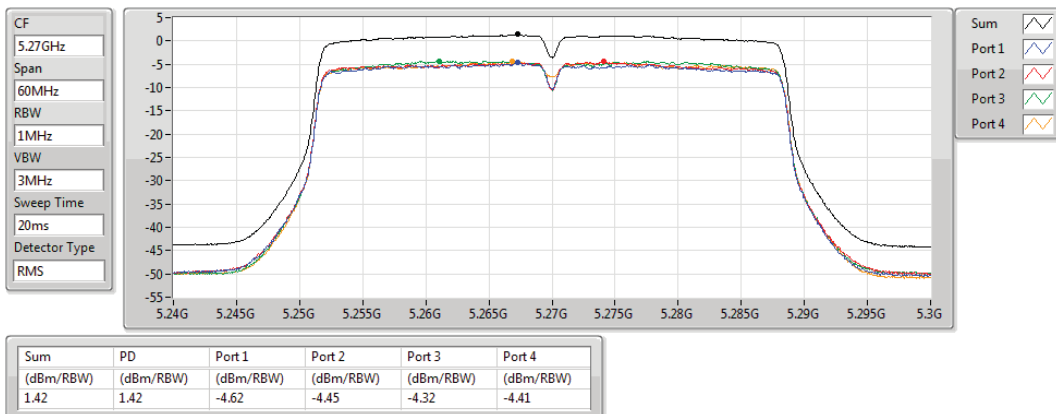


802.11ax HEW40-BF_Nss1,(MCS0)_4TX

PSD

5270MHz

06/05/2020

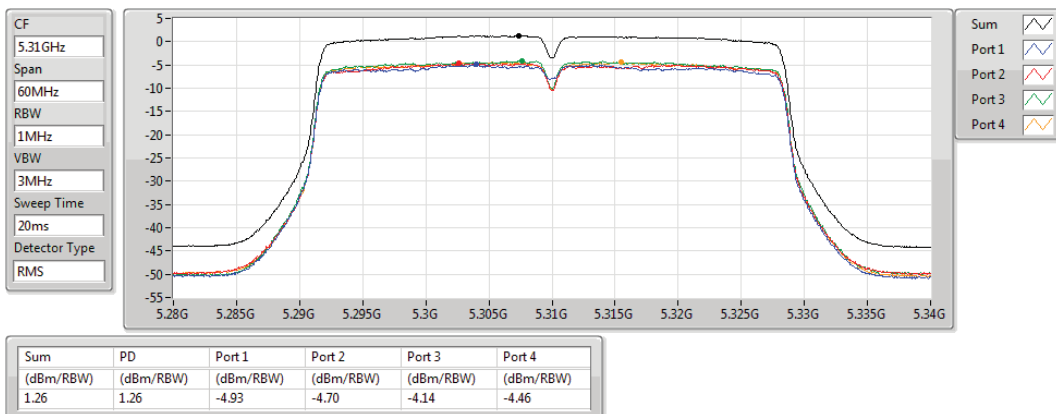


802.11ax HEW40-BF_Nss1,(MCS0)_4TX

PSD

5310MHz

06/05/2020

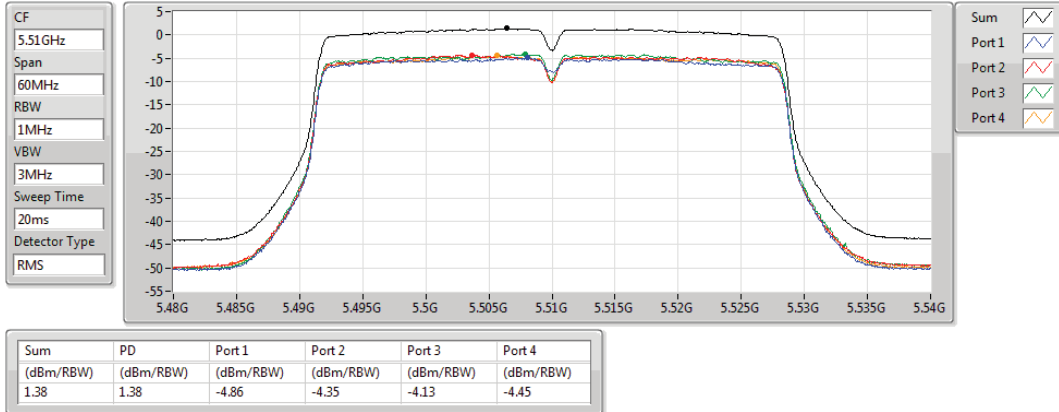


802.11ax HEW40-BF_Nss1,(MCS0)_4TX

PSD

5510MHz

06/05/2020

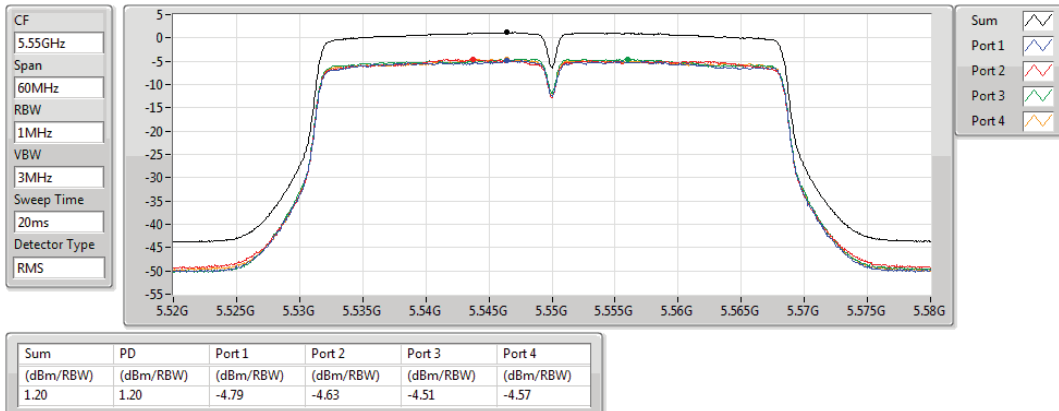


802.11ax HEW40-BF_Nss1,(MCS0)_4TX

PSD

5550MHz

06/05/2020

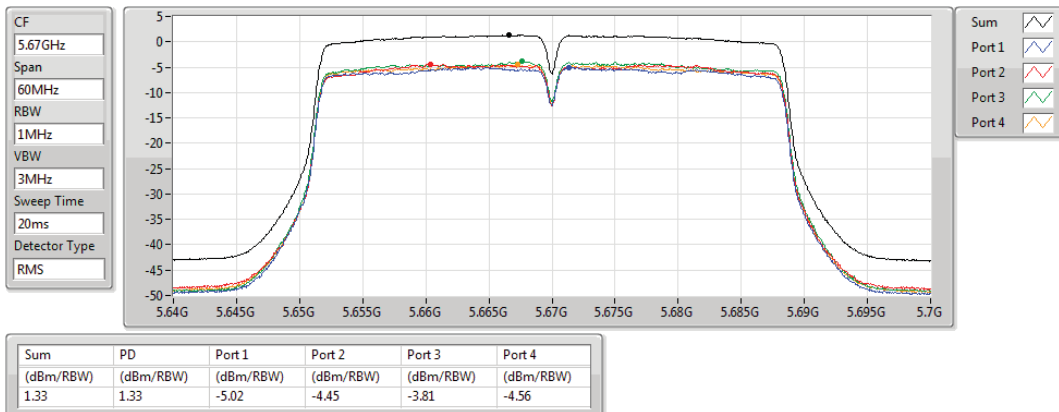


802.11ax HEW40-BF_Nss1,(MCS0)_4TX

PSD

5670MHz

06/05/2020

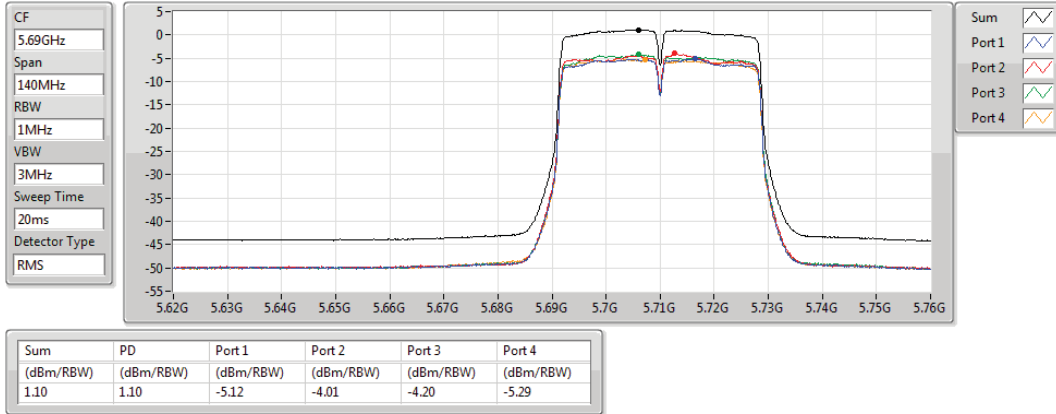


802.11ax HEW40-BF_Nss1,(MCS0)_4TX

PSD

5710MHz Straddle 5.47-5.725GHz

06/05/2020

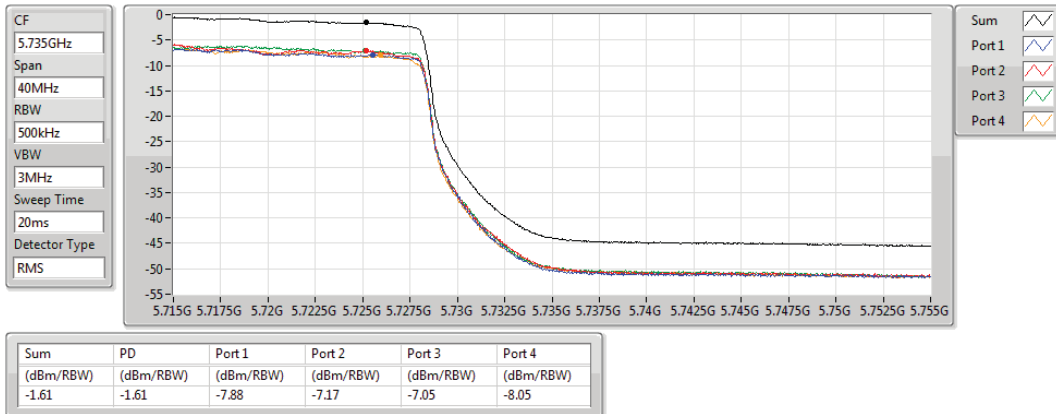


802.11ax HEW40-BF_Nss1,(MCS0)_4TX

PSD

5710MHz Straddle 5.725-5.85GHz

06/05/2020

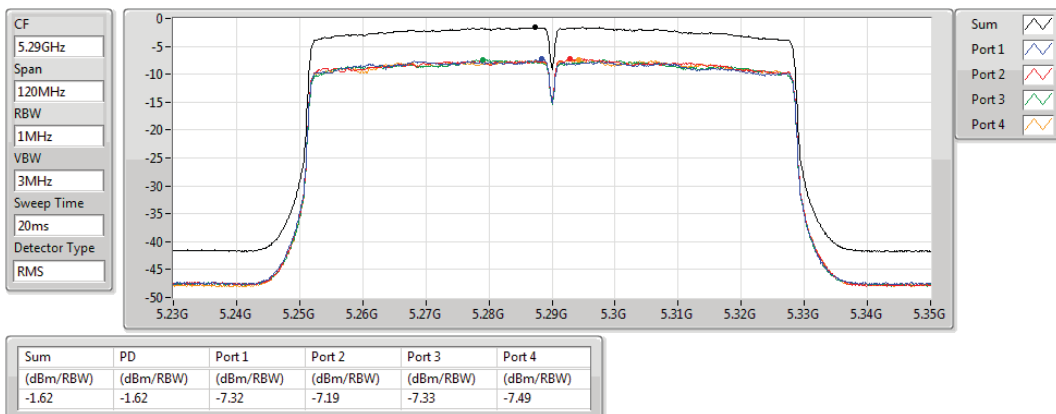


802.11ax HEW80-BF_Nss1,(MCS0)_4TX

PSD

5290MHz

13/05/2020

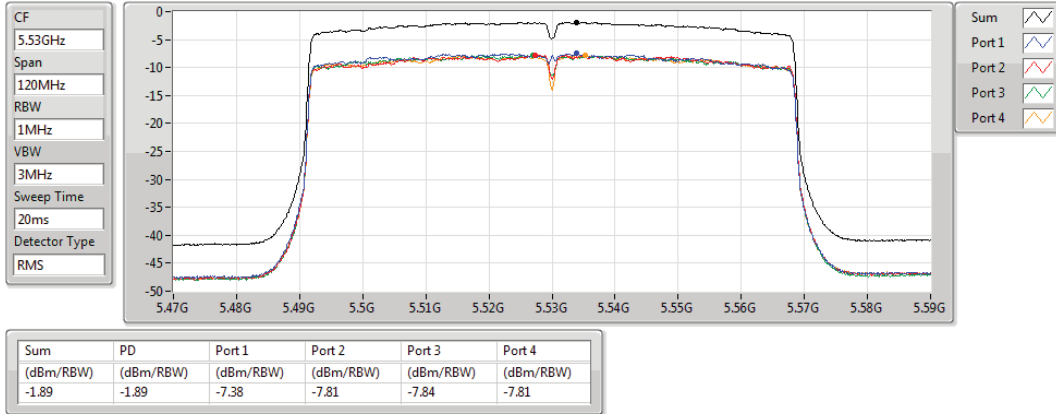


802.11ax HEW80-BF_Nss1,(MCS0)_4TX

PSD

5530MHz

13/05/2020

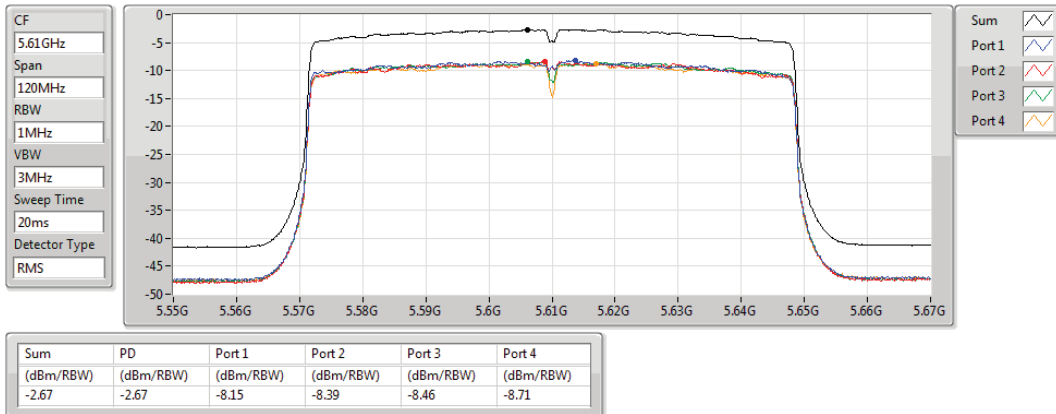


802.11ax HEW80-BF_Nss1,(MCS0)_4TX

PSD

5610MHz

13/05/2020

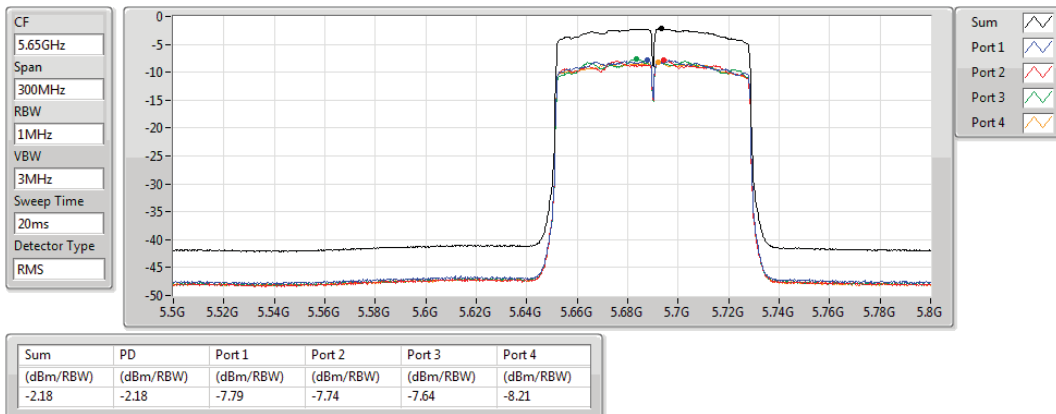


802.11ax HEW80-BF_Nss1,(MCS0)_4TX

PSD

5690MHz Straddle 5.47-5.725GHz

13/05/2020

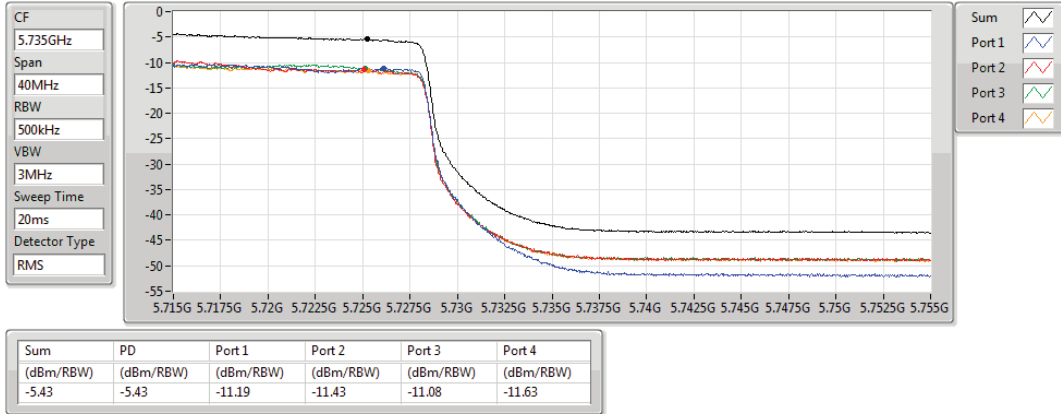


802.11ax HEW80-BF_Nss1,(MCS0)_4TX

PSD

5690MHz Straddle 5.725-5.85GHz

13/05/2020





Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5.25-5.35GHz	-	-	-	-	-	-	-	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	Pass	AV	15.77941G	53.62	54.00	-0.38	3	Horizontal	32	1.53	-
802.11ax HEW20_Nss1,(MCS0)_4TX	Pass	AV	15.90328G	53.53	54.00	-0.47	3	Horizontal	279	1.98	-
802.11ax HEW40_Nss1,(MCS0)_4TX	Pass	AV	5.3648G	53.03	54.00	-0.97	3	Horizontal	315	3.00	-
802.11ax HEW80_Nss1,(MCS0)_4TX	Pass	AV	5.35G	53.72	54.00	-0.28	3	Horizontal	315	1.02	-
5.47-5.725GHz	-	-	-	-	-	-	-	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	Pass	PK	5.47G	67.98	68.20	-0.22	3	Horizontal	85	1.02	-
802.11ax HEW20_Nss1,(MCS0)_4TX	Pass	PK	5.7256G	68.12	68.20	-0.08	3	Horizontal	326	2.40	-
802.11ax HEW40_Nss1,(MCS0)_4TX	Pass	PK	17.12508G	67.58	68.20	-0.62	3	Horizontal	288	1.12	-
802.11ax HEW80_Nss1,(MCS0)_4TX	Pass	PK	5.465G	68.07	68.20	-0.13	3	Horizontal	321	1.00	-

**Result**

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
802.11a_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-	-	-	-
5260MHz	Pass	AV	5.1406G	46.16	54.00	-7.84	3	Vertical	23	2.89	-
5260MHz	Pass	AV	5.2654G	107.84	Inf	-Inf	3	Vertical	23	2.89	-
5260MHz	Pass	AV	5.377G	46.34	54.00	-7.66	3	Vertical	23	2.89	-
5260MHz	Pass	PK	5.1418G	58.34	74.00	-15.66	3	Vertical	23	2.89	-
5260MHz	Pass	PK	5.2654G	117.83	Inf	-Inf	3	Vertical	23	2.89	-
5260MHz	Pass	PK	5.4022G	59.41	74.00	-14.59	3	Vertical	23	2.89	-
5260MHz	Pass	AV	5.1484G	47.13	54.00	-6.87	3	Horizontal	74	1.06	-
5260MHz	Pass	AV	5.2594G	112.38	Inf	-Inf	3	Horizontal	74	1.06	-
5260MHz	Pass	AV	5.3584G	47.72	54.00	-6.28	3	Horizontal	74	1.06	-
5260MHz	Pass	PK	5.1184G	59.15	74.00	-14.85	3	Horizontal	74	1.06	-
5260MHz	Pass	PK	5.2594G	121.96	Inf	-Inf	3	Horizontal	74	1.06	-
5260MHz	Pass	PK	5.3854G	59.08	74.00	-14.92	3	Horizontal	74	1.06	-
5260MHz	Pass	AV	15.78084G	51.86	54.00	-2.14	3	Vertical	348	2.34	-
5260MHz	Pass	PK	10.52047G	56.60	68.20	-11.60	3	Vertical	312	1.97	-
5260MHz	Pass	PK	15.78069G	62.00	74.00	-12.00	3	Vertical	348	2.34	-
5260MHz	Pass	AV	15.77941G	53.62	54.00	-0.38	3	Horizontal	32	1.53	-
5260MHz	Pass	PK	10.52138G	56.12	68.20	-12.08	3	Horizontal	102	1.05	-
5260MHz	Pass	PK	15.77821G	67.04	74.00	-6.96	3	Horizontal	32	1.53	-
5300MHz	Pass	AV	5.3036G	106.50	Inf	-Inf	3	Vertical	14	3.00	-
5300MHz	Pass	AV	5.3556G	46.62	54.00	-7.38	3	Vertical	14	3.00	-
5300MHz	Pass	PK	5.3028G	116.36	Inf	-Inf	3	Vertical	14	3.00	-
5300MHz	Pass	PK	5.3552G	59.12	74.00	-14.88	3	Vertical	14	3.00	-
5300MHz	Pass	AV	5.298G	111.20	Inf	-Inf	3	Horizontal	72	1.01	-
5300MHz	Pass	AV	5.35G	49.97	54.00	-4.03	3	Horizontal	72	1.01	-
5300MHz	Pass	PK	5.2976G	121.06	Inf	-Inf	3	Horizontal	72	1.01	-
5300MHz	Pass	PK	5.35G	63.10	74.00	-10.90	3	Horizontal	72	1.01	-
5300MHz	Pass	AV	15.90821G	49.33	54.00	-4.67	3	Vertical	17	1.62	-
5300MHz	Pass	PK	10.59042G	55.56	68.20	-12.64	3	Vertical	342	2.90	-
5300MHz	Pass	PK	15.90281G	62.98	74.00	-11.02	3	Vertical	17	1.62	-
5300MHz	Pass	AV	15.90279G	53.59	54.00	-0.41	3	Horizontal	276	1.53	-
5300MHz	Pass	PK	10.58308G	55.58	68.20	-12.62	3	Horizontal	318	2.34	-
5300MHz	Pass	PK	15.90601G	66.84	74.00	-7.16	3	Horizontal	276	1.53	-
5320MHz	Pass	AV	5.3168G	108.81	Inf	-Inf	3	Vertical	21	3.00	-
5320MHz	Pass	AV	5.35G	52.43	54.00	-1.57	3	Vertical	21	3.00	-
5320MHz	Pass	PK	5.3166G	118.72	Inf	-Inf	3	Vertical	21	3.00	-
5320MHz	Pass	PK	5.3502G	67.55	74.00	-6.45	3	Vertical	21	3.00	-
5320MHz	Pass	AV	5.3168G	110.12	Inf	-Inf	3	Horizontal	314	1.08	-
5320MHz	Pass	AV	5.3544G	53.12	54.00	-0.88	3	Horizontal	314	1.08	-
5320MHz	Pass	PK	5.317G	119.86	Inf	-Inf	3	Horizontal	314	1.08	-
5320MHz	Pass	PK	5.355G	69.66	74.00	-4.34	3	Horizontal	314	1.08	-
5320MHz	Pass	AV	10.64G	46.84	54.00	-7.16	3	Vertical	337	1.46	-
5320MHz	Pass	AV	15.96726G	50.68	54.00	-3.32	3	Vertical	360	2.33	-
5320MHz	Pass	PK	10.64006G	57.59	74.00	-16.41	3	Vertical	337	1.46	-
5320MHz	Pass	PK	15.966G	64.14	74.00	-9.86	3	Vertical	360	2.33	-
5320MHz	Pass	AV	10.64G	47.19	54.00	-6.81	3	Horizontal	333	2.55	-
5320MHz	Pass	AV	15.95514G	52.76	54.00	-1.24	3	Horizontal	284	2.34	-
5320MHz	Pass	PK	10.64018G	56.93	74.00	-17.07	3	Horizontal	333	2.55	-



Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5320MHz	Pass	PK	15.95538G	66.55	74.00	-7.45	3	Horizontal	284	2.34	-
5500MHz	Pass	AV	5.4568G	49.36	54.00	-4.64	3	Vertical	7	2.93	-
5500MHz	Pass	AV	5.4948G	109.54	Inf	-Inf	3	Vertical	7	2.93	-
5500MHz	Pass	PK	5.4696G	66.03	68.20	-2.17	3	Vertical	7	2.93	-
5500MHz	Pass	PK	5.4966G	118.81	Inf	-Inf	3	Vertical	7	2.93	-
5500MHz	Pass	PK	5.4538G	64.19	74.00	-9.81	3	Horizontal	85	1.02	-
5500MHz	Pass	PK	5.47G	67.98	68.20	-0.22	3	Horizontal	85	1.02	-
5500MHz	Pass	PK	5.4938G	122.29	Inf	-Inf	3	Horizontal	85	1.02	-
5500MHz	Pass	AV	5.4942G	112.42	Inf	-Inf	3	Horizontal	85	1.02	-
5500MHz	Pass	AV	11G	48.31	54.00	-5.69	3	Vertical	338	1.48	-
5500MHz	Pass	PK	10.99994G	57.85	74.00	-16.15	3	Vertical	338	1.48	-
5500MHz	Pass	PK	16.50534G	64.46	68.20	-3.74	3	Vertical	347	1.49	-
5500MHz	Pass	AV	11G	47.45	54.00	-6.55	3	Horizontal	36	1.49	-
5500MHz	Pass	PK	11.00012G	57.23	74.00	-16.77	3	Horizontal	36	1.49	-
5500MHz	Pass	PK	16.50192G	65.39	68.20	-2.81	3	Horizontal	337	2.05	-
5580MHz	Pass	AV	5.4312G	46.15	54.00	-7.85	3	Vertical	331	3.00	-
5580MHz	Pass	AV	5.5788G	110.30	Inf	-Inf	3	Vertical	331	3.00	-
5580MHz	Pass	PK	5.4684G	57.42	68.20	-10.78	3	Vertical	331	3.00	-
5580MHz	Pass	PK	5.5794G	119.99	Inf	-Inf	3	Vertical	331	3.00	-
5580MHz	Pass	PK	5.7288G	58.26	68.20	-9.94	3	Vertical	331	3.00	-
5580MHz	Pass	AV	5.4324G	46.43	54.00	-7.57	3	Horizontal	309	1.00	-
5580MHz	Pass	AV	5.5728G	112.50	Inf	-Inf	3	Horizontal	309	1.00	-
5580MHz	Pass	PK	5.463G	57.99	68.20	-10.21	3	Horizontal	309	1.00	-
5580MHz	Pass	PK	5.574G	122.32	Inf	-Inf	3	Horizontal	309	1.00	-
5580MHz	Pass	PK	5.7252G	58.02	68.20	-10.18	3	Horizontal	309	1.00	-
5580MHz	Pass	AV	11.16006G	45.54	54.00	-8.46	3	Vertical	246	2.91	-
5580MHz	Pass	PK	11.166G	56.74	74.00	-17.26	3	Vertical	246	2.91	-
5580MHz	Pass	PK	16.7403G	67.98	68.20	-0.22	3	Vertical	20	2.93	-
5580MHz	Pass	AV	11.16006G	46.01	54.00	-7.99	3	Horizontal	33	1.50	-
5580MHz	Pass	PK	11.1597G	57.43	74.00	-16.57	3	Horizontal	33	1.50	-
5580MHz	Pass	PK	16.74528G	65.86	68.20	-2.34	3	Horizontal	30	1.49	-
5700MHz	Pass	AV	5.7032G	106.23	Inf	-Inf	3	Vertical	352	2.88	-
5700MHz	Pass	PK	5.7028G	115.89	Inf	-Inf	3	Vertical	352	2.88	-
5700MHz	Pass	PK	5.7268G	65.21	68.20	-2.99	3	Vertical	352	2.88	-
5700MHz	Pass	AV	5.6944G	110.17	Inf	-Inf	3	Horizontal	323	2.64	-
5700MHz	Pass	PK	5.6948G	119.87	Inf	-Inf	3	Horizontal	323	2.64	-
5700MHz	Pass	PK	5.7336G	62.50	68.20	-5.70	3	Horizontal	323	2.64	-
5700MHz	Pass	AV	11.40007G	46.09	54.00	-7.91	3	Vertical	25	1.54	-
5700MHz	Pass	PK	11.40109G	59.82	74.00	-14.18	3	Vertical	25	1.54	-
5700MHz	Pass	PK	17.10045G	66.17	68.20	-2.03	3	Vertical	246	1.11	-
5700MHz	Pass	AV	11.39789G	49.12	54.00	-4.88	3	Horizontal	299	1.12	-
5700MHz	Pass	PK	11.39752G	62.05	74.00	-11.95	3	Horizontal	299	1.12	-
5700MHz	Pass	PK	17.0999G	66.70	68.20	-1.50	3	Horizontal	342	2.12	-
5720MHz Straddle 5.47-5.725GHz	Pass	AV	5.4368G	46.08	54.00	-7.92	3	Vertical	5	3.00	-
5720MHz Straddle 5.47-5.725GHz	Pass	AV	5.7176G	110.25	Inf	-Inf	3	Vertical	5	3.00	-
5720MHz Straddle 5.47-5.725GHz	Pass	PK	5.468G	57.35	68.20	-10.85	3	Vertical	5	3.00	-
5720MHz Straddle 5.47-5.725GHz	Pass	PK	5.7176G	119.41	Inf	-Inf	3	Vertical	5	3.00	-
5720MHz Straddle 5.47-5.725GHz	Pass	PK	5.9372G	58.94	68.20	-9.26	3	Vertical	5	3.00	-
5720MHz Straddle 5.47-5.725GHz	Pass	AV	5.4428G	46.27	54.00	-7.73	3	Horizontal	67	1.00	-



Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5720MHz Straddle 5.47-5.725GHz	Pass	AV	5.7176G	113.83	Inf	-Inf	3	Horizontal	67	1.00	-
5720MHz Straddle 5.47-5.725GHz	Pass	PK	5.4656G	57.62	68.20	-10.58	3	Horizontal	67	1.00	-
5720MHz Straddle 5.47-5.725GHz	Pass	PK	5.7164G	123.39	Inf	-Inf	3	Horizontal	67	1.00	-
5720MHz Straddle 5.47-5.725GHz	Pass	PK	5.9048G	58.73	68.20	-9.47	3	Horizontal	67	1.00	-
5720MHz Straddle 5.47-5.725GHz	Pass	AV	11.44391G	47.19	54.00	-6.81	3	Vertical	28	1.54	-
5720MHz Straddle 5.47-5.725GHz	Pass	PK	11.44012G	61.30	74.00	-12.70	3	Vertical	28	1.54	-
5720MHz Straddle 5.47-5.725GHz	Pass	PK	17.16461G	66.16	68.20	-2.04	3	Vertical	348	2.11	-
5720MHz Straddle 5.47-5.725GHz	Pass	AV	11.43784G	49.45	54.00	-4.55	3	Horizontal	274	1.12	-
5720MHz Straddle 5.47-5.725GHz	Pass	PK	11.439G	62.41	74.00	-11.59	3	Horizontal	274	1.12	-
5720MHz Straddle 5.47-5.725GHz	Pass	PK	17.16291G	67.95	68.20	-0.25	3	Horizontal	339	2.05	-
802.11ax HEW20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-	-
5260MHz	Pass	AV	5.1472G	45.53	54.00	-8.47	3	Vertical	358	2.83	-
5260MHz	Pass	AV	5.266G	106.36	Inf	-Inf	3	Vertical	358	2.83	-
5260MHz	Pass	AV	5.3614G	45.69	54.00	-8.31	3	Vertical	358	2.83	-
5260MHz	Pass	PK	5.1346G	57.79	74.00	-16.21	3	Vertical	358	2.83	-
5260MHz	Pass	PK	5.266G	118.72	Inf	-Inf	3	Vertical	358	2.83	-
5260MHz	Pass	PK	5.3602G	57.93	74.00	-16.07	3	Vertical	358	2.83	-
5260MHz	Pass	AV	5.1358G	45.89	54.00	-8.11	3	Horizontal	312	1.05	-
5260MHz	Pass	AV	5.2618G	111.58	Inf	-Inf	3	Horizontal	312	1.05	-
5260MHz	Pass	AV	5.35G	46.18	54.00	-7.82	3	Horizontal	312	1.05	-
5260MHz	Pass	PK	5.1382G	58.41	74.00	-15.59	3	Horizontal	312	1.05	-
5260MHz	Pass	PK	5.2624G	123.72	Inf	-Inf	3	Horizontal	312	1.05	-
5260MHz	Pass	PK	5.359G	58.80	74.00	-15.20	3	Horizontal	312	1.05	-
5260MHz	Pass	AV	15.77946G	50.86	54.00	-3.14	3	Vertical	349	2.32	-
5260MHz	Pass	PK	10.51997G	56.55	68.20	-11.65	3	Vertical	342	1.47	-
5260MHz	Pass	PK	15.77946G	65.43	74.00	-8.57	3	Vertical	349	2.32	-
5260MHz	Pass	AV	15.77424G	52.67	54.00	-1.33	3	Horizontal	359	1.49	-
5260MHz	Pass	PK	10.51964G	56.05	68.20	-12.15	3	Horizontal	253	1.47	-
5260MHz	Pass	PK	15.77478G	68.49	74.00	-5.51	3	Horizontal	359	1.49	-
5300MHz	Pass	AV	5.2976G	107.44	Inf	-Inf	3	Vertical	14	3.00	-
5300MHz	Pass	AV	5.3564G	47.70	54.00	-6.30	3	Vertical	14	3.00	-
5300MHz	Pass	PK	5.2984G	119.71	Inf	-Inf	3	Vertical	14	3.00	-
5300MHz	Pass	PK	5.35G	60.52	74.00	-13.48	3	Vertical	14	3.00	-
5300MHz	Pass	AV	5.3024G	111.00	Inf	-Inf	3	Horizontal	71	2.12	-
5300MHz	Pass	AV	5.362G	48.81	54.00	-5.19	3	Horizontal	71	2.12	-
5300MHz	Pass	PK	5.3024G	124.70	Inf	-Inf	3	Horizontal	71	2.12	-
5300MHz	Pass	PK	5.3548G	62.06	74.00	-11.94	3	Horizontal	71	2.12	-
5300MHz	Pass	AV	10.60534G	42.39	54.00	-11.61	3	Vertical	355	2.77	-
5300MHz	Pass	AV	15.89369G	51.93	54.00	-2.07	3	Vertical	348	2.44	-
5300MHz	Pass	PK	10.59874G	55.67	68.20	-12.53	3	Vertical	355	2.77	-
5300MHz	Pass	PK	15.89298G	67.05	74.00	-6.95	3	Vertical	348	2.44	-
5300MHz	Pass	AV	10.60142G	44.00	54.00	-10.00	3	Horizontal	331	2.63	-
5300MHz	Pass	AV	15.90328G	53.53	54.00	-0.47	3	Horizontal	279	1.98	-
5300MHz	Pass	PK	10.59861G	55.61	68.20	-12.59	3	Horizontal	331	2.63	-
5300MHz	Pass	PK	15.90182G	71.18	74.00	-2.82	3	Horizontal	279	1.98	-
5320MHz	Pass	AV	5.3166G	105.95	Inf	-Inf	3	Vertical	0	3.00	-
5320MHz	Pass	AV	5.3572G	49.50	54.00	-4.50	3	Vertical	0	3.00	-
5320MHz	Pass	PK	5.3168G	118.59	Inf	-Inf	3	Vertical	0	3.00	-
5320MHz	Pass	PK	5.3556G	62.72	74.00	-11.28	3	Vertical	0	3.00	-



RSE TX above 1GHz_Non-Beamforming_Radio 1_4T1S

Appendix D.1

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5320MHz	Pass	AV	5.3144G	108.06	Inf	-Inf	3	Horizontal	72	1.03	-
5320MHz	Pass	AV	5.3534G	53.26	54.00	-0.74	3	Horizontal	72	1.03	-
5320MHz	Pass	PK	5.3148G	121.84	Inf	-Inf	3	Horizontal	72	1.03	-
5320MHz	Pass	PK	5.3532G	69.23	74.00	-4.77	3	Horizontal	72	1.03	-
5320MHz	Pass	AV	10.64G	44.34	54.00	-9.66	3	Vertical	341	1.31	-
5320MHz	Pass	AV	15.9625G	49.94	54.00	-4.06	3	Vertical	320	1.22	-
5320MHz	Pass	PK	10.63974G	56.09	74.00	-17.91	3	Vertical	341	1.31	-
5320MHz	Pass	PK	15.96184G	64.67	74.00	-9.33	3	Vertical	320	1.22	-
5320MHz	Pass	AV	10.64005G	45.11	54.00	-8.89	3	Horizontal	329	2.67	-
5320MHz	Pass	AV	15.96246G	52.42	54.00	-1.58	3	Horizontal	359	1.49	-
5320MHz	Pass	PK	10.64013G	57.87	74.00	-16.13	3	Horizontal	329	2.67	-
5320MHz	Pass	PK	15.96384G	68.03	74.00	-5.97	3	Horizontal	359	1.49	-
5500MHz	Pass	AV	5.46G	48.01	54.00	-5.99	3	Vertical	30	2.95	-
5500MHz	Pass	AV	5.5084G	105.92	Inf	-Inf	3	Vertical	30	2.95	-
5500MHz	Pass	PK	5.4684G	66.58	68.20	-1.62	3	Vertical	30	2.95	-
5500MHz	Pass	PK	5.5084G	118.45	Inf	-Inf	3	Vertical	30	2.95	-
5500MHz	Pass	AV	5.458G	48.48	54.00	-5.52	3	Horizontal	317	1.06	-
5500MHz	Pass	AV	5.4966G	108.16	Inf	-Inf	3	Horizontal	317	1.06	-
5500MHz	Pass	PK	5.4692G	67.54	68.20	-0.66	3	Horizontal	317	1.06	-
5500MHz	Pass	PK	5.4964G	121.59	Inf	-Inf	3	Horizontal	317	1.06	-
5500MHz	Pass	AV	11.00003G	46.67	54.00	-7.33	3	Vertical	343	1.54	-
5500MHz	Pass	PK	10.99986G	57.78	74.00	-16.22	3	Vertical	343	1.54	-
5500MHz	Pass	PK	16.50088G	63.89	68.20	-4.31	3	Vertical	3	1.40	-
5500MHz	Pass	AV	11.00007G	46.00	54.00	-8.00	3	Horizontal	42	1.48	-
5500MHz	Pass	PK	10.99997G	57.52	74.00	-16.48	3	Horizontal	42	1.48	-
5500MHz	Pass	PK	16.49753G	64.96	68.20	-3.24	3	Horizontal	351	1.65	-
5580MHz	Pass	AV	5.4396G	45.34	54.00	-8.66	3	Vertical	7	3.00	-
5580MHz	Pass	AV	5.5842G	109.68	Inf	-Inf	3	Vertical	7	3.00	-
5580MHz	Pass	PK	5.4618G	57.32	68.20	-10.88	3	Vertical	7	3.00	-
5580MHz	Pass	PK	5.5848G	122.69	Inf	-Inf	3	Vertical	7	3.00	-
5580MHz	Pass	PK	5.727G	58.41	68.20	-9.79	3	Vertical	7	3.00	-
5580MHz	Pass	AV	5.4588G	45.95	54.00	-8.05	3	Horizontal	83	1.00	-
5580MHz	Pass	AV	5.583G	112.76	Inf	-Inf	3	Horizontal	83	1.00	-
5580MHz	Pass	PK	5.469G	58.45	68.20	-9.75	3	Horizontal	83	1.00	-
5580MHz	Pass	PK	5.583G	124.84	Inf	-Inf	3	Horizontal	83	1.00	-
5580MHz	Pass	PK	5.7282G	58.55	68.20	-9.65	3	Horizontal	83	1.00	-
5580MHz	Pass	AV	11.16G	45.78	54.00	-8.22	3	Vertical	0	2.47	-
5580MHz	Pass	PK	11.16006G	58.02	74.00	-15.98	3	Vertical	0	2.47	-
5580MHz	Pass	PK	16.74144G	65.14	68.20	-3.06	3	Vertical	54	1.24	-
5580MHz	Pass	AV	11.16018G	43.94	54.00	-10.06	3	Horizontal	40	2.85	-
5580MHz	Pass	PK	11.16078G	57.53	74.00	-16.47	3	Horizontal	40	2.85	-
5580MHz	Pass	PK	16.7397G	67.72	68.20	-0.48	3	Horizontal	19	1.46	-
5700MHz	Pass	AV	5.6968G	106.38	Inf	-Inf	3	Vertical	351	2.88	-
5700MHz	Pass	PK	5.6972G	118.25	Inf	-Inf	3	Vertical	351	2.88	-
5700MHz	Pass	PK	5.726G	61.98	68.20	-6.22	3	Vertical	351	2.88	-
5700MHz	Pass	AV	5.7012G	109.26	Inf	-Inf	3	Horizontal	326	2.40	-
5700MHz	Pass	PK	5.7024G	122.92	Inf	-Inf	3	Horizontal	326	2.40	-
5700MHz	Pass	PK	5.7256G	68.12	68.20	-0.08	3	Horizontal	326	2.40	-
5700MHz	Pass	AV	11.40636G	44.37	54.00	-9.63	3	Vertical	18	2.09	-



RSE TX above 1GHz_Non-Beamforming_Radio 1_4T1S

Appendix D.1

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5700MHz	Pass	PK	11.40642G	57.30	74.00	-16.70	3	Vertical	18	2.09	-
5700MHz	Pass	PK	17.10158G	65.71	68.20	-2.49	3	Vertical	67	1.86	-
5700MHz	Pass	AV	11.39766G	46.39	54.00	-7.61	3	Horizontal	292	1.71	-
5700MHz	Pass	PK	11.39652G	60.21	74.00	-13.79	3	Horizontal	292	1.71	-
5700MHz	Pass	PK	17.10012G	66.04	68.20	-2.16	3	Horizontal	246	1.49	-
5720MHz Straddle 5.47-5.725GHz	Pass	AV	5.4428G	45.09	54.00	-8.91	3	Vertical	9	3.00	-
5720MHz Straddle 5.47-5.725GHz	Pass	AV	5.7188G	108.00	Inf	-Inf	3	Vertical	9	3.00	-
5720MHz Straddle 5.47-5.725GHz	Pass	PK	5.468G	56.55	68.20	-11.65	3	Vertical	9	3.00	-
5720MHz Straddle 5.47-5.725GHz	Pass	PK	5.7176G	120.12	Inf	-Inf	3	Vertical	9	3.00	-
5720MHz Straddle 5.47-5.725GHz	Pass	PK	5.9564G	58.84	68.20	-9.36	3	Vertical	9	3.00	-
5720MHz Straddle 5.47-5.725GHz	Pass	AV	5.4368G	45.69	54.00	-8.31	3	Horizontal	76	1.00	-
5720MHz Straddle 5.47-5.725GHz	Pass	AV	5.7176G	112.73	Inf	-Inf	3	Horizontal	76	1.00	-
5720MHz Straddle 5.47-5.725GHz	Pass	PK	5.4644G	57.60	68.20	-10.60	3	Horizontal	76	1.00	-
5720MHz Straddle 5.47-5.725GHz	Pass	PK	5.7176G	124.12	Inf	-Inf	3	Horizontal	76	1.00	-
5720MHz Straddle 5.47-5.725GHz	Pass	PK	5.942G	58.96	68.20	-9.24	3	Horizontal	76	1.00	-
5720MHz Straddle 5.47-5.725GHz	Pass	AV	11.44233G	44.68	54.00	-9.32	3	Vertical	11	1.17	-
5720MHz Straddle 5.47-5.725GHz	Pass	PK	11.44311G	57.57	74.00	-16.43	3	Vertical	11	1.17	-
5720MHz Straddle 5.47-5.725GHz	Pass	PK	17.16417G	64.39	68.20	-3.81	3	Vertical	299	1.46	-
5720MHz Straddle 5.47-5.725GHz	Pass	AV	11.43447G	45.60	54.00	-8.40	3	Horizontal	301	1.72	-
5720MHz Straddle 5.47-5.725GHz	Pass	PK	11.4388G	58.73	74.00	-15.27	3	Horizontal	301	1.72	-
5720MHz Straddle 5.47-5.725GHz	Pass	PK	17.15641G	67.49	68.20	-0.71	3	Horizontal	281	2.41	-
802.11ax HEW40_Nss1_(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-	-
5270MHz	Pass	AV	5.2752G	104.43	Inf	-Inf	3	Vertical	0	2.81	-
5270MHz	Pass	AV	5.3528G	52.77	54.00	-1.23	3	Vertical	0	2.81	-
5270MHz	Pass	PK	5.276G	116.10	Inf	-Inf	3	Vertical	0	2.81	-
5270MHz	Pass	PK	5.3524G	68.86	74.00	-5.14	3	Vertical	0	2.81	-
5270MHz	Pass	AV	5.2648G	108.35	Inf	-Inf	3	Horizontal	315	3.00	-
5270MHz	Pass	AV	5.3648G	53.03	54.00	-0.97	3	Horizontal	315	3.00	-
5270MHz	Pass	PK	5.264G	119.67	Inf	-Inf	3	Horizontal	315	3.00	-
5270MHz	Pass	PK	5.3652G	67.90	74.00	-6.10	3	Horizontal	315	3.00	-
5270MHz	Pass	AV	15.8145G	50.44	54.00	-3.56	3	Vertical	336	2.32	-
5270MHz	Pass	PK	10.53982G	56.53	68.20	-11.67	3	Vertical	342	1.47	-
5270MHz	Pass	PK	15.79566G	64.62	74.00	-9.38	3	Vertical	336	2.32	-
5270MHz	Pass	AV	15.80808G	50.14	54.00	-3.86	3	Horizontal	359	1.48	-
5270MHz	Pass	PK	10.53994G	56.27	68.20	-11.93	3	Horizontal	328	2.80	-
5270MHz	Pass	PK	15.80868G	64.01	74.00	-9.99	3	Horizontal	359	1.48	-
5310MHz	Pass	AV	5.3152G	100.74	Inf	-Inf	3	Vertical	358	2.77	-
5310MHz	Pass	AV	5.3532G	52.49	54.00	-1.51	3	Vertical	358	2.77	-
5310MHz	Pass	PK	5.3164G	113.62	Inf	-Inf	3	Vertical	358	2.77	-
5310MHz	Pass	PK	5.356G	67.64	74.00	-6.36	3	Vertical	358	2.77	-
5310MHz	Pass	AV	5.3068G	104.87	Inf	-Inf	3	Horizontal	315	2.15	-
5310MHz	Pass	AV	5.35G	52.73	54.00	-1.27	3	Horizontal	315	2.15	-
5310MHz	Pass	PK	5.3068G	116.34	Inf	-Inf	3	Horizontal	315	2.15	-
5310MHz	Pass	PK	5.3664G	67.35	74.00	-6.65	3	Horizontal	315	2.15	-
5310MHz	Pass	AV	10.62G	45.02	54.00	-8.98	3	Vertical	340	1.50	-
5310MHz	Pass	AV	15.94398G	47.48	54.00	-6.52	3	Vertical	119	1.87	-
5310MHz	Pass	PK	10.60626G	55.61	74.00	-18.39	3	Vertical	340	1.50	-
5310MHz	Pass	PK	15.93246G	61.14	74.00	-12.86	3	Vertical	119	1.87	-
5310MHz	Pass	AV	10.61994G	46.50	54.00	-7.50	3	Horizontal	326	2.52	-



Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5310MHz	Pass	AV	15.93378G	47.45	54.00	-6.55	3	Horizontal	346	2.33	-
5310MHz	Pass	PK	10.62006G	57.12	74.00	-16.88	3	Horizontal	326	2.52	-
5310MHz	Pass	PK	15.94302G	61.10	74.00	-12.90	3	Horizontal	346	2.33	-
5510MHz	Pass	AV	5.46G	46.00	54.00	-8.00	3	Vertical	0	2.91	-
5510MHz	Pass	AV	5.5036G	103.15	Inf	-Inf	3	Vertical	0	2.91	-
5510MHz	Pass	PK	5.4644G	65.58	68.20	-2.62	3	Vertical	0	2.91	-
5510MHz	Pass	PK	5.504G	116.10	Inf	-Inf	3	Vertical	0	2.91	-
5510MHz	Pass	AV	5.46G	49.99	54.00	-4.01	3	Horizontal	72	1.01	-
5510MHz	Pass	AV	5.5008G	105.43	Inf	-Inf	3	Horizontal	72	1.01	-
5510MHz	Pass	PK	5.4612G	66.58	68.20	-1.62	3	Horizontal	72	1.01	-
5510MHz	Pass	PK	5.5212G	118.17	Inf	-Inf	3	Horizontal	72	1.01	-
5510MHz	Pass	AV	11.02G	46.67	54.00	-7.33	3	Vertical	343	1.42	-
5510MHz	Pass	PK	11.02024G	57.31	74.00	-16.69	3	Vertical	343	1.42	-
5510MHz	Pass	PK	16.5297G	63.64	68.20	-4.56	3	Vertical	337	2.05	-
5510MHz	Pass	AV	11.02G	47.16	54.00	-6.84	3	Horizontal	41	1.44	-
5510MHz	Pass	PK	11.0203G	57.12	74.00	-16.88	3	Horizontal	41	1.44	-
5510MHz	Pass	PK	16.51908G	63.36	68.20	-4.84	3	Horizontal	122	2.12	-
5550MHz	Pass	AV	5.4536G	46.96	54.00	-7.04	3	Vertical	0	3.00	-
5550MHz	Pass	AV	5.554G	106.65	Inf	-Inf	3	Vertical	0	3.00	-
5550MHz	Pass	PK	5.47G	60.09	68.20	-8.11	3	Vertical	0	3.00	-
5550MHz	Pass	PK	5.5536G	119.26	Inf	-Inf	3	Vertical	0	3.00	-
5550MHz	Pass	AV	5.4516G	48.17	54.00	-5.83	3	Horizontal	76	1.00	-
5550MHz	Pass	AV	5.5512G	108.45	Inf	-Inf	3	Horizontal	76	1.00	-
5550MHz	Pass	PK	5.4696G	67.14	68.20	-1.06	3	Horizontal	76	1.00	-
5550MHz	Pass	PK	5.5512G	120.98	Inf	-Inf	3	Horizontal	76	1.00	-
5550MHz	Pass	AV	11.09994G	44.55	54.00	-9.45	3	Vertical	349	1.49	-
5550MHz	Pass	PK	11.09976G	56.66	74.00	-17.34	3	Vertical	349	1.49	-
5550MHz	Pass	PK	16.63506G	63.27	68.20	-4.93	3	Vertical	228	1.09	-
5550MHz	Pass	AV	11.10006G	45.12	54.00	-8.88	3	Horizontal	27	1.82	-
5550MHz	Pass	PK	11.10486G	56.68	74.00	-17.32	3	Horizontal	27	1.82	-
5550MHz	Pass	PK	16.6587G	64.22	68.20	-3.98	3	Horizontal	171	2.30	-
5670MHz	Pass	AV	5.6736G	104.24	Inf	-Inf	3	Vertical	29	2.91	-
5670MHz	Pass	PK	5.673G	116.23	Inf	-Inf	3	Vertical	29	2.91	-
5670MHz	Pass	PK	5.7324G	65.96	68.20	-2.24	3	Vertical	29	2.91	-
5670MHz	Pass	AV	5.661G	106.52	Inf	-Inf	3	Horizontal	75	1.02	-
5670MHz	Pass	PK	5.6796G	118.86	Inf	-Inf	3	Horizontal	75	1.02	-
5670MHz	Pass	PK	5.7252G	66.39	68.20	-1.81	3	Horizontal	75	1.02	-
5670MHz	Pass	AV	11.33994G	45.41	54.00	-8.59	3	Vertical	175	1.00	-
5670MHz	Pass	PK	11.33694G	56.99	74.00	-17.01	3	Vertical	175	1.00	-
5670MHz	Pass	PK	17.02422G	65.74	68.20	-2.46	3	Vertical	220	1.47	-
5670MHz	Pass	AV	11.33736G	45.76	54.00	-8.24	3	Horizontal	293	1.71	-
5670MHz	Pass	PK	11.33694G	59.72	74.00	-14.28	3	Horizontal	293	1.71	-
5670MHz	Pass	PK	17.01108G	65.81	68.20	-2.39	3	Horizontal	331	3.00	-
5710MHz Straddle 5.47-5.725GHz	Pass	AV	5.4256G	45.49	54.00	-8.51	3	Vertical	360	3.00	-
5710MHz Straddle 5.47-5.725GHz	Pass	AV	5.7124G	107.57	Inf	-Inf	3	Vertical	360	3.00	-
5710MHz Straddle 5.47-5.725GHz	Pass	PK	5.4652G	56.89	68.20	-11.31	3	Vertical	360	3.00	-
5710MHz Straddle 5.47-5.725GHz	Pass	PK	5.7124G	118.50	Inf	-Inf	3	Vertical	360	3.00	-
5710MHz Straddle 5.47-5.725GHz	Pass	PK	5.8516G	59.01	68.20	-9.19	3	Vertical	360	3.00	-
5710MHz Straddle 5.47-5.725GHz	Pass	AV	5.4472G	45.77	54.00	-8.23	3	Horizontal	81	2.15	-



RSE TX above 1GHz_Non-Beamforming_Radio 1_4T1S

Appendix D.1

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5710MHz Straddle 5.47-5.725GHz	Pass	AV	5.7076G	109.56	Inf	-Inf	3	Horizontal	81	2.15	-
5710MHz Straddle 5.47-5.725GHz	Pass	PK	5.4628G	57.10	68.20	-11.10	3	Horizontal	81	2.15	-
5710MHz Straddle 5.47-5.725GHz	Pass	PK	5.71G	122.00	Inf	-Inf	3	Horizontal	81	2.15	-
5710MHz Straddle 5.47-5.725GHz	Pass	PK	5.902G	60.09	68.20	-8.11	3	Horizontal	81	2.15	-
5710MHz Straddle 5.47-5.725GHz	Pass	AV	11.42012G	44.17	54.00	-9.83	3	Vertical	20	1.48	-
5710MHz Straddle 5.47-5.725GHz	Pass	PK	11.41994G	58.19	74.00	-15.81	3	Vertical	20	1.48	-
5710MHz Straddle 5.47-5.725GHz	Pass	PK	17.13552G	66.22	68.20	-1.98	3	Vertical	320	2.07	-
5710MHz Straddle 5.47-5.725GHz	Pass	AV	11.41778G	46.59	54.00	-7.41	3	Horizontal	288	1.63	-
5710MHz Straddle 5.47-5.725GHz	Pass	PK	11.41718G	59.51	74.00	-14.49	3	Horizontal	288	1.63	-
5710MHz Straddle 5.47-5.725GHz	Pass	PK	17.12508G	67.58	68.20	-0.62	3	Horizontal	288	1.12	-
802.11ax HEW80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-	-
5290MHz	Pass	AV	5.146G	47.63	54.00	-6.37	3	Vertical	344	3.00	-
5290MHz	Pass	AV	5.302G	96.89	Inf	-Inf	3	Vertical	344	3.00	-
5290MHz	Pass	AV	5.363G	49.53	54.00	-4.47	3	Vertical	344	3.00	-
5290MHz	Pass	PK	5.15G	60.95	74.00	-13.05	3	Vertical	344	3.00	-
5290MHz	Pass	PK	5.302G	109.17	Inf	-Inf	3	Vertical	344	3.00	-
5290MHz	Pass	PK	5.49G	60.14	68.20	-8.06	3	Vertical	344	3.00	-
5290MHz	Pass	AV	5.15G	47.85	54.00	-6.15	3	Horizontal	315	1.02	-
5290MHz	Pass	AV	5.289G	99.20	Inf	-Inf	3	Horizontal	315	1.02	-
5290MHz	Pass	AV	5.35G	53.72	54.00	-0.28	3	Horizontal	315	1.02	-
5290MHz	Pass	PK	5.122G	59.97	74.00	-14.03	3	Horizontal	315	1.02	-
5290MHz	Pass	PK	5.291G	111.68	Inf	-Inf	3	Horizontal	315	1.02	-
5290MHz	Pass	PK	5.472G	59.93	68.20	-8.27	3	Horizontal	315	1.02	-
5290MHz	Pass	AV	15.87966G	47.30	54.00	-6.70	3	Vertical	317	2.30	-
5290MHz	Pass	PK	10.58012G	55.90	68.20	-12.30	3	Vertical	245	1.26	-
5290MHz	Pass	PK	15.87822G	61.39	74.00	-12.61	3	Vertical	317	2.30	-
5290MHz	Pass	AV	15.885G	47.28	54.00	-6.72	3	Horizontal	116	1.86	-
5290MHz	Pass	PK	10.57988G	55.48	68.20	-12.72	3	Horizontal	326	2.70	-
5290MHz	Pass	PK	15.86886G	60.78	74.00	-13.22	3	Horizontal	116	1.86	-
5530MHz	Pass	AV	5.443G	49.03	54.00	-4.97	3	Vertical	328	2.89	-
5530MHz	Pass	AV	5.543G	98.10	Inf	-Inf	3	Vertical	328	2.89	-
5530MHz	Pass	PK	5.462G	62.91	68.20	-5.29	3	Vertical	328	2.89	-
5530MHz	Pass	PK	5.542G	109.92	Inf	-Inf	3	Vertical	328	2.89	-
5530MHz	Pass	PK	5.744G	59.34	68.20	-8.86	3	Vertical	328	2.89	-
5530MHz	Pass	AV	5.446G	53.51	54.00	-0.49	3	Horizontal	321	1.00	-
5530MHz	Pass	AV	5.546G	101.44	Inf	-Inf	3	Horizontal	321	1.00	-
5530MHz	Pass	PK	5.465G	68.07	68.20	-0.13	3	Horizontal	321	1.00	-
5530MHz	Pass	PK	5.527G	114.38	Inf	-Inf	3	Horizontal	321	1.00	-
5530MHz	Pass	PK	5.757G	59.89	68.20	-8.31	3	Horizontal	321	1.00	-
5530MHz	Pass	AV	11.05994G	43.84	54.00	-10.16	3	Vertical	28	2.07	-
5530MHz	Pass	PK	11.04998G	56.21	74.00	-17.79	3	Vertical	28	2.07	-
5530MHz	Pass	PK	16.59546G	63.28	68.20	-4.92	3	Vertical	40	2.27	-
5530MHz	Pass	AV	11.05994G	46.32	54.00	-7.68	3	Horizontal	132	1.64	-
5530MHz	Pass	PK	11.05574G	56.72	74.00	-17.28	3	Horizontal	132	1.64	-
5530MHz	Pass	PK	16.5756G	63.11	68.20	-5.09	3	Horizontal	309	2.11	-
5610MHz	Pass	AV	5.453G	47.56	54.00	-6.44	3	Vertical	30	3.00	-
5610MHz	Pass	AV	5.613G	101.43	Inf	-Inf	3	Vertical	30	3.00	-
5610MHz	Pass	PK	5.465G	61.61	68.20	-6.59	3	Vertical	30	3.00	-
5610MHz	Pass	PK	5.614G	112.79	Inf	-Inf	3	Vertical	30	3.00	-



RSE TX above 1GHz_Non-Beamforming_Radio 1_4T1S

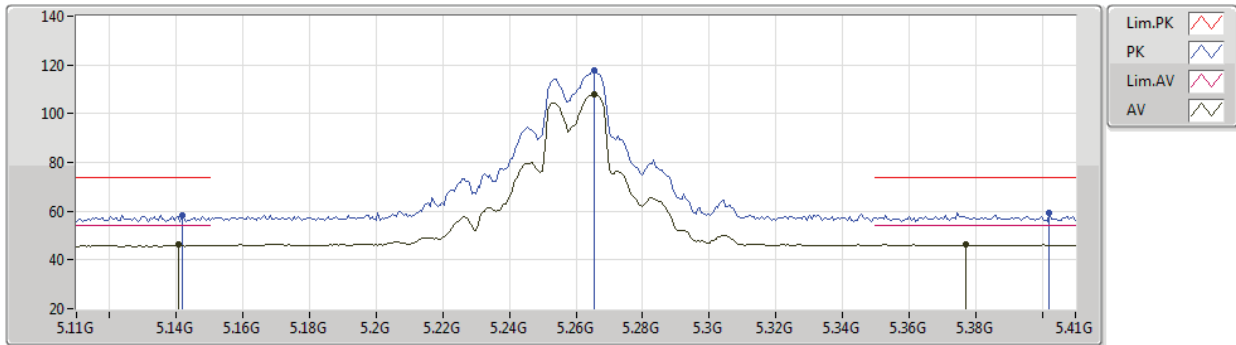
Appendix D.1

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5610MHz	Pass	PK	5.733G	65.94	68.20	-2.26	3	Vertical	30	3.00	-
5610MHz	Pass	AV	5.46G	51.27	54.00	-2.73	3	Horizontal	77	1.00	-
5610MHz	Pass	AV	5.601G	103.47	Inf	-Inf	3	Horizontal	77	1.00	-
5610MHz	Pass	PK	5.461G	64.07	68.20	-4.13	3	Horizontal	77	1.00	-
5610MHz	Pass	PK	5.601G	115.75	Inf	-Inf	3	Horizontal	77	1.00	-
5610MHz	Pass	PK	5.741G	67.64	68.20	-0.56	3	Horizontal	77	1.00	-
5610MHz	Pass	AV	11.22G	47.65	54.00	-6.35	3	Vertical	56	1.33	-
5610MHz	Pass	PK	11.21998G	57.82	74.00	-16.18	3	Vertical	56	1.33	-
5610MHz	Pass	PK	16.82872G	63.74	68.20	-4.46	3	Vertical	6	1.00	-
5610MHz	Pass	AV	11.21998G	44.92	54.00	-9.08	3	Horizontal	49	2.35	-
5610MHz	Pass	PK	11.22003G	57.05	74.00	-16.95	3	Horizontal	49	2.35	-
5610MHz	Pass	PK	16.83092G	64.25	68.20	-3.95	3	Horizontal	67	3.00	-
5690MHz Straddle 5.47-5.725GHz	Pass	AV	5.4428G	47.59	54.00	-6.41	3	Vertical	346	1.04	-
5690MHz Straddle 5.47-5.725GHz	Pass	AV	5.684G	101.30	Inf	-Inf	3	Vertical	346	1.04	-
5690MHz Straddle 5.47-5.725GHz	Pass	PK	5.4656G	60.47	68.20	-7.73	3	Vertical	346	1.04	-
5690MHz Straddle 5.47-5.725GHz	Pass	PK	5.684G	114.54	Inf	-Inf	3	Vertical	346	1.04	-
5690MHz Straddle 5.47-5.725GHz	Pass	PK	5.8664G	62.95	68.20	-5.25	3	Vertical	346	1.04	-
5690MHz Straddle 5.47-5.725GHz	Pass	AV	5.4464G	48.52	54.00	-5.48	3	Horizontal	331	2.40	-
5690MHz Straddle 5.47-5.725GHz	Pass	AV	5.6876G	106.14	Inf	-Inf	3	Horizontal	331	2.40	-
5690MHz Straddle 5.47-5.725GHz	Pass	PK	5.468G	61.48	68.20	-6.72	3	Horizontal	331	2.40	-
5690MHz Straddle 5.47-5.725GHz	Pass	PK	5.6876G	118.00	Inf	-Inf	3	Horizontal	331	2.40	-
5690MHz Straddle 5.47-5.725GHz	Pass	PK	5.8664G	67.97	68.20	-0.23	3	Horizontal	331	2.40	-
5690MHz Straddle 5.47-5.725GHz	Pass	AV	11.37998G	45.80	54.00	-8.20	3	Vertical	53	1.35	-
5690MHz Straddle 5.47-5.725GHz	Pass	PK	11.37945G	57.23	74.00	-16.77	3	Vertical	53	1.35	-
5690MHz Straddle 5.47-5.725GHz	Pass	PK	17.06841G	66.59	68.20	-1.61	3	Vertical	30	2.80	-
5690MHz Straddle 5.47-5.725GHz	Pass	AV	11.38G	45.12	54.00	-8.88	3	Horizontal	318	2.50	-
5690MHz Straddle 5.47-5.725GHz	Pass	PK	11.38023G	57.54	74.00	-16.46	3	Horizontal	318	2.50	-
5690MHz Straddle 5.47-5.725GHz	Pass	PK	17.07012G	66.18	68.20	-2.02	3	Horizontal	332	1.48	-

802.11a_Nss1,(6Mbps)_4TX

22/04/2020

5260MHz_TX

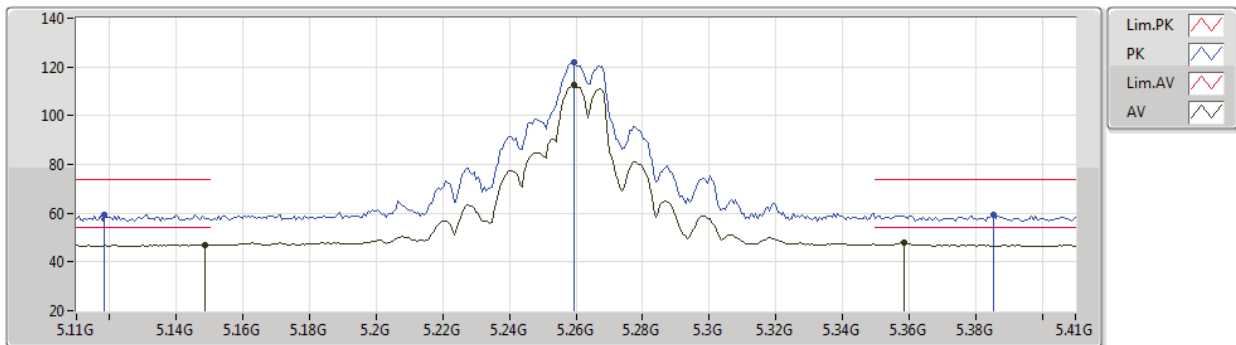


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.1406G	46.16	54.00	-7.84	6.44	3	Vertical	23	2.89	-	39.72	31.76	8.51	33.83
AV	5.2654G	107.84	Inf	-Inf	6.53	3	Vertical	23	2.89	-	101.31	31.81	8.58	33.86
AV	5.377G	46.34	54.00	-7.66	6.57	3	Vertical	23	2.89	-	39.77	31.85	8.61	33.89
PK	5.1418G	58.34	74.00	-15.66	6.44	3	Vertical	23	2.89	-	51.90	31.76	8.51	33.83
PK	5.2654G	117.83	Inf	-Inf	6.53	3	Vertical	23	2.89	-	111.30	31.81	8.58	33.86
PK	5.4022G	59.41	74.00	-14.59	6.57	3	Vertical	23	2.89	-	52.84	31.86	8.61	33.90

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5260MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.1484G	47.13	54.00	-6.87	6.45	3	Horizontal	74	1.06	-	40.68	31.76	8.52	33.83
AV	5.2594G	112.38	Inf	-Inf	6.52	3	Horizontal	74	1.06	-	105.86	31.80	8.58	33.86
AV	5.3584G	47.72	54.00	-6.28	6.55	3	Horizontal	74	1.06	-	41.17	31.84	8.60	33.89
PK	5.1184G	59.15	74.00	-14.85	6.41	3	Horizontal	74	1.06	-	52.74	31.75	8.49	33.83
PK	5.2594G	121.96	Inf	-Inf	6.52	3	Horizontal	74	1.06	-	115.44	31.80	8.58	33.86
PK	5.3854G	59.08	74.00	-14.92	6.56	3	Horizontal	74	1.06	-	52.52	31.85	8.61	33.90