

FCC Radio Test Report

FCC ID : N7NXR80
Equipment : XR80
Brand Name : Sierra Wireless
Model Name : XR80
Applicant : Sierra Wireless Inc.
13811 Wireless Way, Richmond, BC Canada V6V 3A4
Manufacturer : Sierra Wireless Inc.
13811 Wireless Way, Richmond, BC Canada V6V 3A4
Standard : 47 CFR FCC Part 15.407

The product was received on Nov. 09, 2020, and testing was started from Jan. 07, 2021 and completed on Jul. 22, 2021. We, SPORTON INTERNATIONAL INC. Hsinhua Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown compliance with the applicable technical standards.

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



Approved by: Allen Lin

SPORTON INTERNATIONAL INC. Hsinhua Laboratory

No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333411, Taiwan (R.O.C.)



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History of this test report

Report No.	Version	Description	Issued Date
FR150533AN	01	Initial issue of report	Aug. 19, 2021
FR150533AN	02	1. Antenna No. was updated 2. Section 2.6 EUT Operation Test Setup was added This report is the latest version replacing for the report issued on Aug. 19, 2021	Aug. 25, 2021
FR150533AN	03	Section 2.6 EUT Operation Test Setup was updated This report is the latest version replacing for the report issued on Aug. 25, 2021	Aug. 26, 2021



Summary of Test Result

Report Clause	Ref. Std. Clause	Test Items	Result (PASS/FAIL)	Remark
1.1.2	15.203	Antenna Requirement	PASS	-
3.1	15.207	AC Power-line Conducted Emissions	PASS	-
3.2	15.407(a)	Emission Bandwidth	PASS	-
3.3	15.407(a)	Maximum Conducted Output Power	PASS	-
3.4	15.407(a)	Peak Power Spectral Density	PASS	-
3.5	15.407(b)	Unwanted Emissions	PASS	-

Note: From Sporton Project No.:FR0N0913-03AN. (WiFi B)

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: Ben Tseng

Report Producer: Jenny Yang

1 General Description

1.1 Information

1.1.1 RF General Information

Frequency Range (MHz)	IEEE Std. 802.11	Ch. Frequency (MHz)	Channel Number
5150-5250	a, n (HT20), ac (VHT20), ax (HEW 20)	5180-5240	36-48 [4]
5250-5350		5260-5320	52-64 [4]
5470-5725		5500-5700	100-140 [11]
Straddle 5720		5720	144 [1]
5725-5850		5745-5825	149-165 [5]
5150-5250	n (HT40), ac (VHT40), ax (HEW 40)	5190-5230	38-46 [2]
5250-5350		5270-5310	54-62 [2]
5470-5725		5510-5670	102-134 [5]
Straddle 5710		5710	142 [1]
5725-5850		5755-5795	151-159 [2]
5150-5250	ac (VHT80), ax (HEW 80)	5210	42 [1]
5250-5350		5290	58 [1]
5470-5725		5530-5610	106-122 [2]
Straddle 5690		5690	138 [1]
5725-5850		5775	155 [1]

Non-Beamforming WiFi A

Band	Mode	BWch (MHz)	Nant
5.15-5.25GHz	802.11a	20	1TX
5.25-5.35GHz	802.11a	20	1TX
5.47-5.725GHz	802.11a	20	1TX
5.725-5.85GHz	802.11a	20	1TX
5.15-5.25GHz	802.11ax HEW20	20	1TX
5.25-5.35GHz	802.11ax HEW20	20	1TX
5.47-5.725GHz	802.11ax HEW20	20	1TX
5.725-5.85GHz	802.11ax HEW20	20	1TX
5.15-5.25GHz	802.11ax HEW40	40	1TX
5.25-5.35GHz	802.11ax HEW40	40	1TX
5.47-5.725GHz	802.11ax HEW40	40	1TX
5.725-5.85GHz	802.11ax HEW40	40	1TX



Band	Mode	BWch (MHz)	Nant
5.15-5.25GHz	802.11ax HEW80	80	1TX
5.25-5.35GHz	802.11ax HEW80	80	1TX
5.47-5.725GHz	802.11ax HEW80	80	1TX
5.725-5.85GHz	802.11ax HEW80	80	1TX

WiFi B

Band	Mode	BWch (MHz)	Nant
5.15-5.25GHz	802.11a	20	4TX
5.25-5.35GHz	802.11a	20	4TX
5.47-5.725GHz	802.11a	20	4TX
5.725-5.85GHz	802.11a	20	4TX
5.15-5.25GHz	802.11ax HEW20	20	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
5.15-5.25GHz	802.11ax HEW40	40	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
5.15-5.25GHz	802.11ax HEW80	80	4TX
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

Beamforming**WiFi B**

Band	Mode	BWch (MHz)	Nant
5.15-5.25GHz	802.11ax HEW20-BF	20	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
5.15-5.25GHz	802.11ax HEW40-BF	40	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
5.15-5.25GHz	802.11ax HEW80-BF	80	4TX

Band	Mode	BWch (MHz)	Nant
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, modulation.
- ♦ BWch is the nominal channel bandwidth.

1.1.2 Antenna Information

Ant.	Brand	Model Name	Antenna Type	Connector
5	PANORAMA	LGMQM4-6-60-24-58	Panel	FAKRA
6	PANORAMA	LGMQM4-6-60-24-58	Panel	FAKRA
7	PANORAMA	LGMQM4-6-60-24-58	Panel	FAKRA
8	PANORAMA	LGMQM4-6-60-24-58	Panel	FAKRA
9	PANORAMA	LGMQM4-6-60-24-58	Panel	FAKRA

Ant.	Port	Gain (dBi)	
		2.4G	5G
5	1	-0.25	0.5
6	2	-0.25	0.5
7	3	-0.25	0.5
8	4	-0.25	0.5
9	1	-	0.5

For 2.4GHz function (WiFi B):

For IEEE 802.11 b/g/n/VHT/ax mode (4TX/4RX)

Ant. 5 (port 1), Ant. 6 (port 2), Ant. 7 (port 3) and Ant. 8 (port 4) could transmit/receive simultaneously.

For 5GHz function (WiFi A):

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

Only Ant. 9 (port 1) can be used as transmitting/receiving antenna.

For 5GHz function (WiFi B):

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

Ant. 5 (port 1), Ant. 6 (port 2), Ant. 7 (port 3) and Ant. 8 (port 4) could transmit/receive simultaneously.

1.1.3 EUT Information

Operational Condition			
EUT Power Type	From AC Adapter		
EUT Function	☒ Outdoor AP	☐ Indoor AP	
	☐ Fixed P2P AP	☐ Outdoor/Indoor Client	
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 WiFi A

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq \frac{1}{T}$
802.11a_Nss1,(6Mbps)_1TX	0.91	0.41	564.375u	3k
802.11ax HEW20_Nss1,(MCS0)_1TX	0.984	0.07	4.009m	10
802.11ax HEW40_Nss1,(MCS0)_1TX	0.97	0.13	2.036m	1k
802.11ax HEW80_Nss1,(MCS0)_1TX	0.949	0.23	1.003m	1k

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

WiFi B

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq \frac{1}{T}$
802.11a_Nss1,(6Mbps)_4TX	0.909	0.41	564.375u	3k
802.11ax HEW20_Nss1,(MCS0)_4TX	0.911	0.4	4.008m	300
802.11ax HEW40_Nss1,(MCS0)_4TX	0.971	0.13	2.036m	1k
802.11ax HEW80_Nss1,(MCS0)_4TX	0.941	0.26	1.003m	1k

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

**Beamforming
WiFi B**

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq 1/T$
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	0.942	0.26	14.063us	10
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	0.903	0.44	16.063us	10
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	0.427	3.7	150us	10

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

1.2 Testing Applied Standards

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

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

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

- KDB 662911 D01 v02r01
- KDB 414788 D01 v01r01

1.3 Testing Location Information

Test Lab. : Sporton International Inc. Hsinhua Laboratory				
☒ Hsinhua (TAF: 3785)	ADD: No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333411, Taiwan (R.O.C.)			
	TEL: 886-3-327-3456		FAX: 886-3-327-0973	
Test site Designation No. TW3785 with FCC.				
Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date
AC Conduction (WiFi A)	CO04-HY	Daniel Lin	24.7~26.2°C / 51~58%	21/Jul/2021
AC Conduction (WiFi B)	CO04-HY	Tony Chang	25.1~26.7°C / 50~56%	21/Jul/2021~22/Jul/2021
RF Conducted (WiFi A)	TH07-HY	Alan Chien	20.1~26.9°C / 50~60%	21/Jun/2021~16/Jul/2021
RF Conducted (WiFi B)	TH01-HY	Vivi Jiang	22.1~26.9°C / 52~60%	26/Jan/2021~17/Jul/2021
☒ Wen 33rd.St. (TAF: 3785)	ADD: No.14-1, Ln. 19, Wen 33rd St., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.)			
	TEL: 886-3-318-0787		FAX: 886-3-318-0287	
Test site Designation No. TW0008 with FCC.				
Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date
Radiated (WiFi A)	03CH09-HY	Ryan Hsiao	22.8~24.2°C / 43~54%	16/Jun/2021~19/Jul/2021
Radiated (below 1GHz) (WiFi B)	03CH09-HY	Lego Lin	22.5~24.4°C / 42~54%	19/Jul/2021~21/Jul/2021
Radiated (above 1GHz) (WiFi B)	03CH09-HY	Lego Lin	21.5~22.3°C / 55~60% 、 23.5~24.6°C / 53~61%	07/Jan/2021~16/Mar/2021 、 04/Jun/2021

1.4 Measurement Uncertainty

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

Test 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 Channel Mode

Non-Beamforming

WiFi A

Test Software Version	Tera TermV4.76
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Mode	Power Setting
802.11a_Nss1,(6Mbps)_1TX	-
5180MHz	190
5200MHz	190
5240MHz	190
5260MHz	227
5300MHz	227
5320MHz	227
5500MHz	233
5580MHz	230
5700MHz	222
5720MHz Straddle 5.47-5.725GHz	235
5720MHz Straddle 5.725-5.85GHz	235
5745MHz	240
5785MHz	240
5825MHz	240
802.11ax HEW20_Nss1,(MCS0)_1TX	-
5180MHz	185
5200MHz	185
5240MHz	185
5260MHz	222
5300MHz	222
5320MHz	220
5500MHz	227
5580MHz	227
5700MHz	201
5720MHz Straddle 5.47-5.725GHz	232
5720MHz Straddle 5.725-5.85GHz	232
5745MHz	240



Mode	Power Setting
5785MHz	240
5825MHz	240
802.11ax HEW40_Nss1,(MCS0)_1TX	-
5190MHz	188
5230MHz	180
5270MHz	208
5310MHz	190
5510MHz	185
5550MHz	213
5670MHz	207
5710MHz Straddle 5.47-5.725GHz	223
5710MHz Straddle 5.725-5.85GHz	223
5755MHz	240
5795MHz	240
802.11ax HEW80_Nss1,(MCS0)_1TX	-
5210MHz	190
5290MHz	203
5530MHz	220
5610MHz	236
5690MHz Straddle 5.47-5.725GHz	236
5690MHz Straddle 5.725-5.85GHz	236
5775MHz	240

**WiFi B**

Test Software Version	DOS v6.1
Mode	Power Setting
802.11a_Nss1,(6Mbps)_4TX	-
5180MHz	130
5200MHz	130
5240MHz	130
5260MHz	160
5300MHz	160
5320MHz	159
5500MHz	163
5580MHz	163
5700MHz	166
5720MHz Straddle 5.47-5.725GHz	165
5720MHz Straddle 5.725-5.85GHz	165
5745MHz	229
5785MHz	230
5825MHz	232
802.11ax HEW20_Nss1,(MCS0)_4TX	-
5180MHz	135
5200MHz	135
5240MHz	135
5260MHz	166
5300MHz	165
5320MHz	166
5500MHz	172
5580MHz	173
5700MHz	174
5720MHz Straddle 5.47-5.725GHz	174
5720MHz Straddle 5.725-5.85GHz	174
5745MHz	227
5785MHz	228
5825MHz	232
802.11ax HEW40_Nss1,(MCS0)_4TX	-
5190MHz	120



Mode	Power Setting
5230MHz	120
5270MHz	155
5310MHz	155
5510MHz	158
5550MHz	160
5670MHz	160
5710MHz Straddle 5.47-5.725GHz	164
5710MHz Straddle 5.725-5.85GHz	164
5755MHz	216
5795MHz	218
802.11ax HEW80_Nss1,(MCS0)_4TX	-
5210MHz	125
5290MHz	171
5530MHz	173
5610MHz	173
5690MHz Straddle 5.47-5.725GHz	171
5690MHz Straddle 5.725-5.85GHz	171
5775MHz	240

**Beamforming
WiFi B**

Test Software Version	DOS v6.1
Mode	Power Setting
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	-
5180MHz	85
5200MHz	82
5240MHz	85
5260MHz	164
5300MHz	164
5320MHz	161
5500MHz	164
5580MHz	165
5700MHz	170
5720MHz Straddle 5.47-5.725GHz	166
5720MHz Straddle 5.725-5.85GHz	166
5745MHz	230
5785MHz	230
5825MHz	230
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	-
5190MHz	85
5230MHz	85
5270MHz	160
5310MHz	165
5510MHz	165
5550MHz	165
5670MHz	166
5710MHz Straddle 5.47-5.725GHz	170
5710MHz Straddle 5.725-5.85GHz	170
5755MHz	221
5795MHz	240
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	-
5210MHz	83
5290MHz	161
5530MHz	140



Mode	Power Setting
5610MHz	139
5690MHz Straddle 5.47-5.725GHz	134
5690MHz Straddle 5.725-5.85GHz	134
5775MHz	209

2.2 The Worst Case Measurement Configuration

The Worst Case Mode for Following Conformance Tests	
Tests Item	AC power-line conducted emissions
Condition	AC power-line conducted measurement for line and neutral Test Voltage: 120Vac / 60Hz
Operating Mode	CTX
1	Adapter mode

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

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

The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis
Test Condition	Radiated measurement
Operating Mode	Normal Link
1	WiFi B WLAN 2.4GHz+ WLAN 5GHz
Refer to Sporton Test Report No.: FA150533 for Co-location RF Exposure Evaluation and Appendix F for Radiated Emission Co-location.	

2.3 Accessories

Accessories				
AC adapter	Brand Name	Tenbao	Model Name	S090IP2400375
	Power Rating	I/P: 100 - 240 Vac, 2.0 A, O/P: 24 Vdc, 3.75 A		
	Power Cord	3.0 meter, non-shielded cable		

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

2.4 Support Equipment

Support Equipment – AC Conduction (WiFi A)					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	Power Cord	-	-	-	Note 1

Note 1: Provided by Customer

Support Equipment – AC Conduction (WiFi B)					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	Notebook	HP	HSTNN-Q85C	-	-
2	AC Adapter (for NB)	HP	PPP012L-E	-	-
3	RS232-to-Lan cable	-	-	-	-
4	USB-to-RS232 cable	-	-	-	-
5	AC Adapter (for NB) (Remote)	HP	PPP012H-S	-	-
6	AC Power cable (Remote)	Power Sync	TPCMRN0018	-	-
7	Notebook (Remote)	HP	5220m	-	-

Support Equipment – Conducted (WiFi A& B)					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	Notebook	DELL	E5410	-	-
2	Adapter for NB	DELL	HA65NM130	-	-
3	Notebook	Acer	Trave Mate P2410	-	-
4	Adapter for NB	HIPRO	HP-A0652R3B	-	-

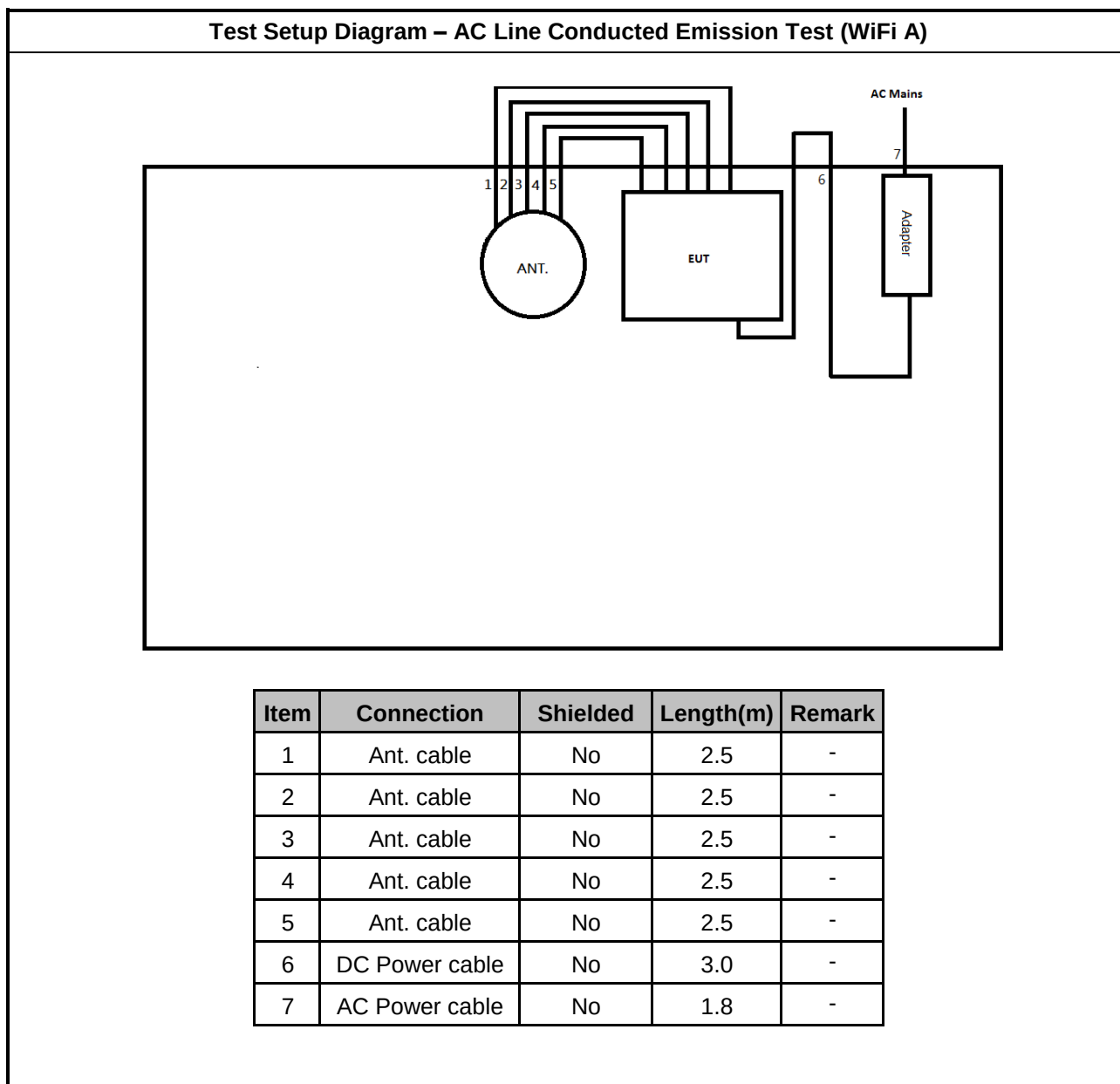


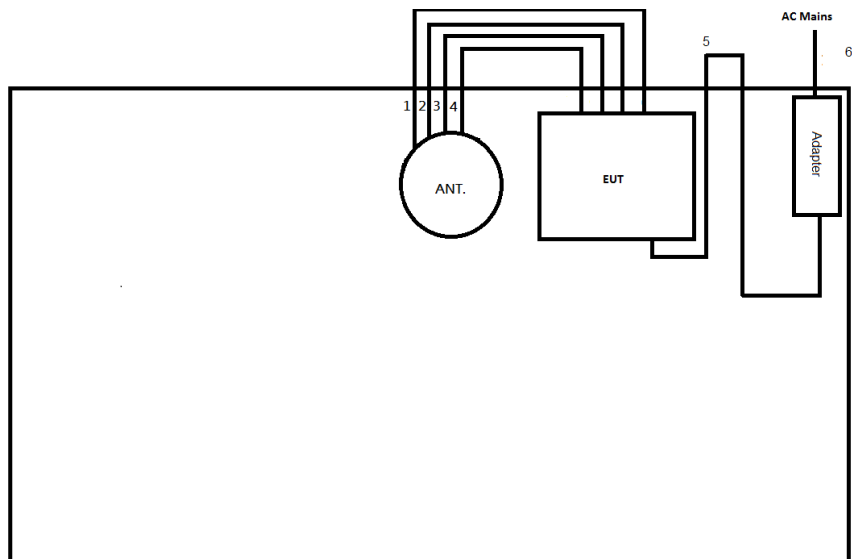
Support Equipment – Radiated (WiFi A)					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	Power Cord	-	-	-	Note 1

Note 1: Provided by Customer

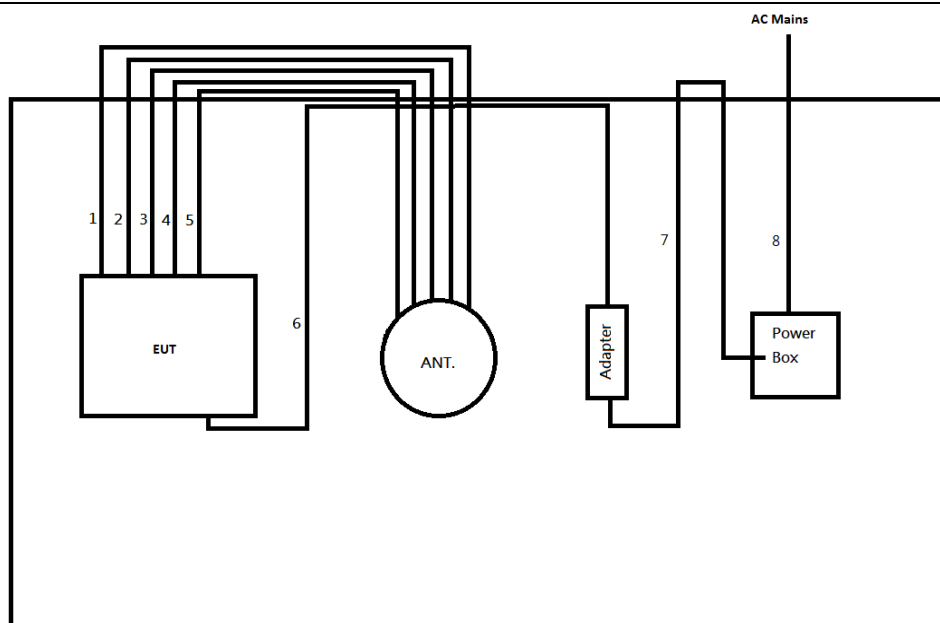
Support Equipment – Radiated (WiFi B)					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	Notebook	HP	HSTNN-Q85C	-	-
2	AC Adapter (for NB)	HP	PPP012L-E	-	-
3	USB-to-RS232 cable	-	-	-	-
4	RS232-to-Lan cable	-	-	-	-
5	AC Adapter (for NB) (Remote)	HP	PPP012H-S	-	-
6	AC Power cable (Remote)	Power Sync	TPCMRN0018	-	-
7	Notebook (Remote)	HP	5220m	-	-
8	Notebook	DELL	Latitude E5510	-	-
9	Notebook	DELL	Latitude E5530	-	-
10	Notebook	DELL	Latitude E5550	-	-

2.5 Test Setup Diagram

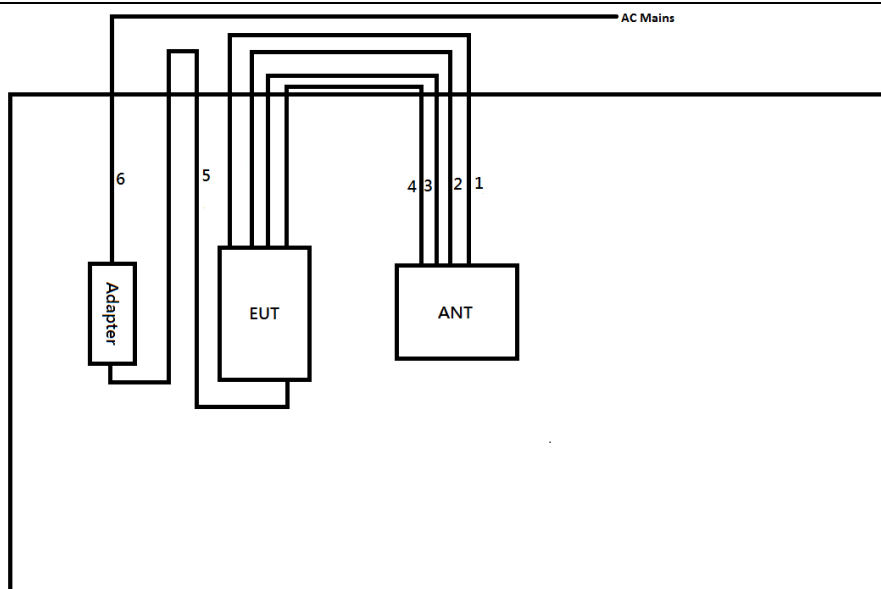


Test Setup Diagram – AC Line Conducted Emission Test (WiFi B)


Item	Connection	Shielded	Length(m)	Remark
1	Ant cable	No	2.5	-
2	Ant cable	No	2.5	-
3	Ant cable	No	2.5	-
4	Ant cable	No	2.5	-
5	DC Power cable	No	3.0	-
6	AC Power cable	No	1.8	-

Test Setup Diagram - Radiated Test (WiFi A)


Item	Connection	Shielded	Length(m)	Remark
1	Ant. cable	No	2.5	-
2	Ant. cable	No	2.5	-
3	Ant. cable	No	2.5	-
4	Ant. cable	No	2.5	-
5	Ant. cable	No	2.5	-
6	DC Power cable	No	3.0	-
7	AC Power cable	No	1.8	-
8	AC Power cable	No	1.8	-

Test Setup Diagram - Radiated Test (WiFi B)


Item	Connection	Shielded	Length(m)	Remark
1	Ant cable	No	2.5	-
2	Ant cable	No	2.5	-
3	Ant cable	No	2.5	-
4	Ant cable	No	2.5	-
5	DC Power cable	No	3.0	-
6	AC Power cable	No	1.8	-



2.6 EUT Operation Test Setup

CTX

<Wi-Fi A>

The EUT was linked with the NB by USB and RJ45 to RS232 cable.

The RF test items, utility "Tera TermV4.76" was installed in NB which was programmed in order to make the EUT get into the engineering modes to provide channel selection, power level, data rate and the application type and for continuous transmitting signals.

<Wi-Fi B>

The EUT was linked with the NB by USB and RJ45 to RS232 cable.

The RF test items, utility "DOS v6.1" was installed in NB which was used to make the EUT get into the engineering modes to provide channel selection, power level, data rate and the application type and for continuous transmitting signals.

Normal Link

The EUT was linked with the NB1 by USB and RJ45 to RS232 cable. NB2 was linked with the EUT by Wi-Fi 2.4G, and NB3 was linked with the EUT by Wi-Fi 5G.

NB1 executed "LANtest" to traffic packet data to NB2 and NB3.

3 Transmitter Test Result

3.1 AC Power-line Conducted Emissions

3.1.1 AC Power-line Conducted Emissions Limit

AC Power-line Conducted Emissions Limit		
Frequency Emission (MHz)	Quasi-Peak	Average
0.15-0.5	66 - 56 *	56 - 46 *
0.5-5	56	46
5-30	60	50
Note 1: * Decreases with the logarithm of the frequency.		

3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

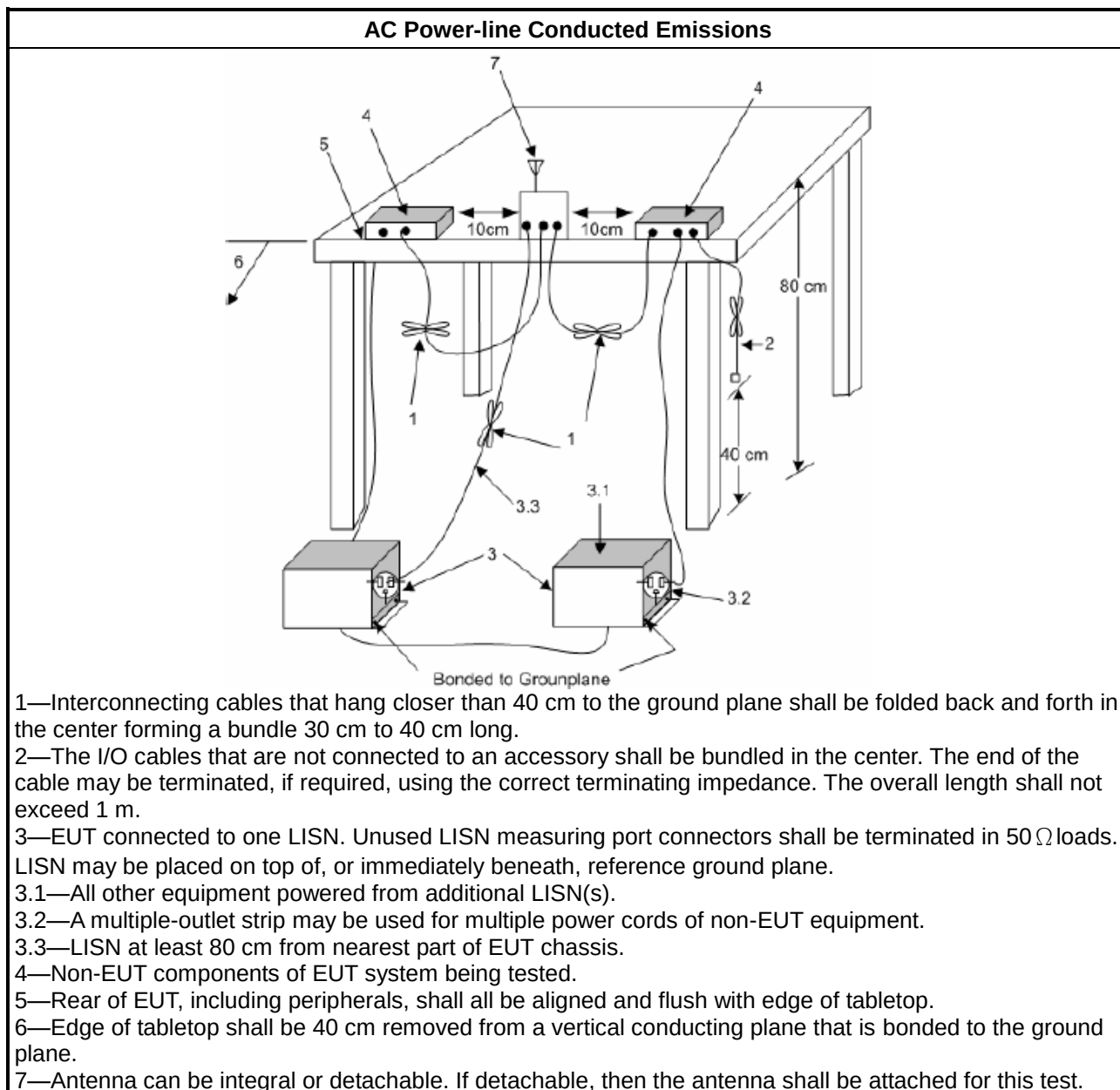
Test Method
☒ Refer as ANSI C63.10-2013, clause 6.2 for AC power-line conducted emissions.

3.1.4 Measurement Results Calculation

The measured Level is calculated using:

Corrected Reading: Raw(Read Level) + LISN(LISN Factor) + CL(Cable Loss) + AT(Attenuator).

3.1.5 Test Setup



3.1.6 Test Result of AC Power-line Conducted Emissions

Refer as Appendix A

3.2 Emission Bandwidth

3.2.1 Emission Bandwidth Limit

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

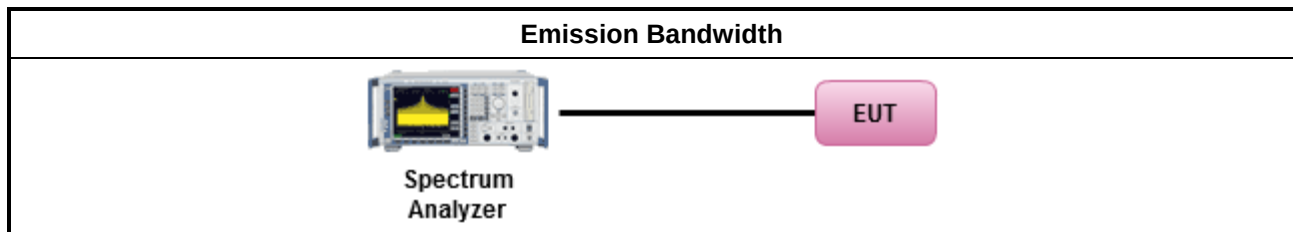
3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

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

3.2.4 Test Setup



3.2.5 Test Result of Emission Bandwidth

Refer as Appendix B

3.3 Maximum Conducted Output Power

3.3.1 Maximum Conducted Output Power Limit

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

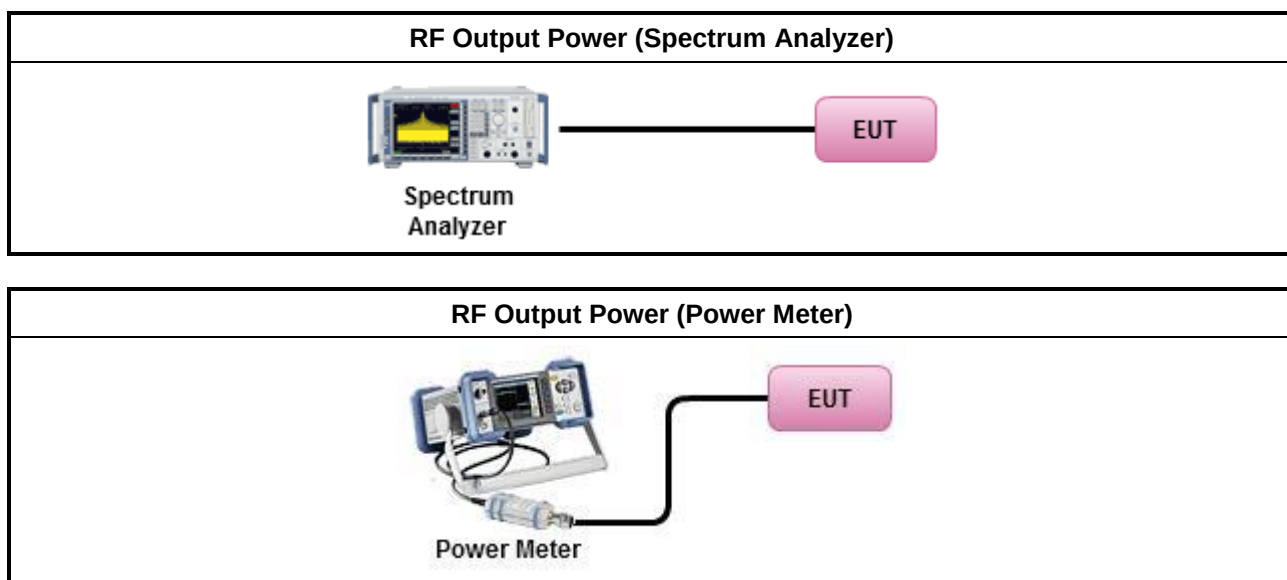
3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

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

3.3.4 Test Setup



3.3.5 Test Result of Maximum Conducted Output Power

Refer as Appendix C

3.4 Peak Power Spectral Density

3.4.1 Peak Power Spectral Density Limit

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

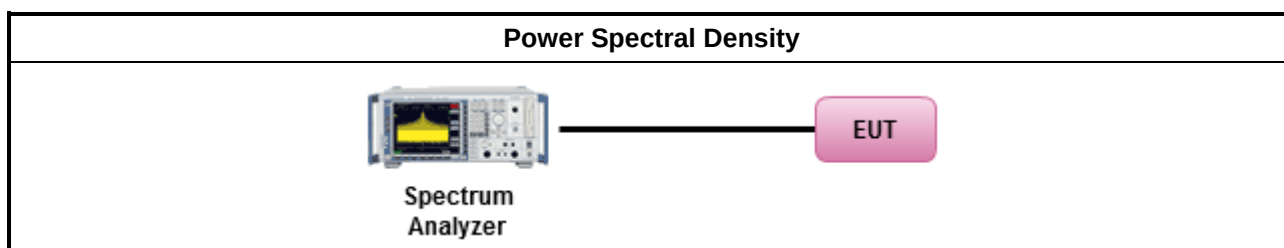
3.4.2 Measuring Instruments

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

3.4.3 Test Procedures

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

3.4.4 Test Setup



3.4.5 Test Result of Peak Power Spectral Density

Refer as Appendix D

3.5 Unwanted Emissions

3.5.1 Transmitter Radiated Unwanted Emissions Limit

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

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

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

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

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

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

3.5.2 Measuring Instruments

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

3.5.3 Test Procedures

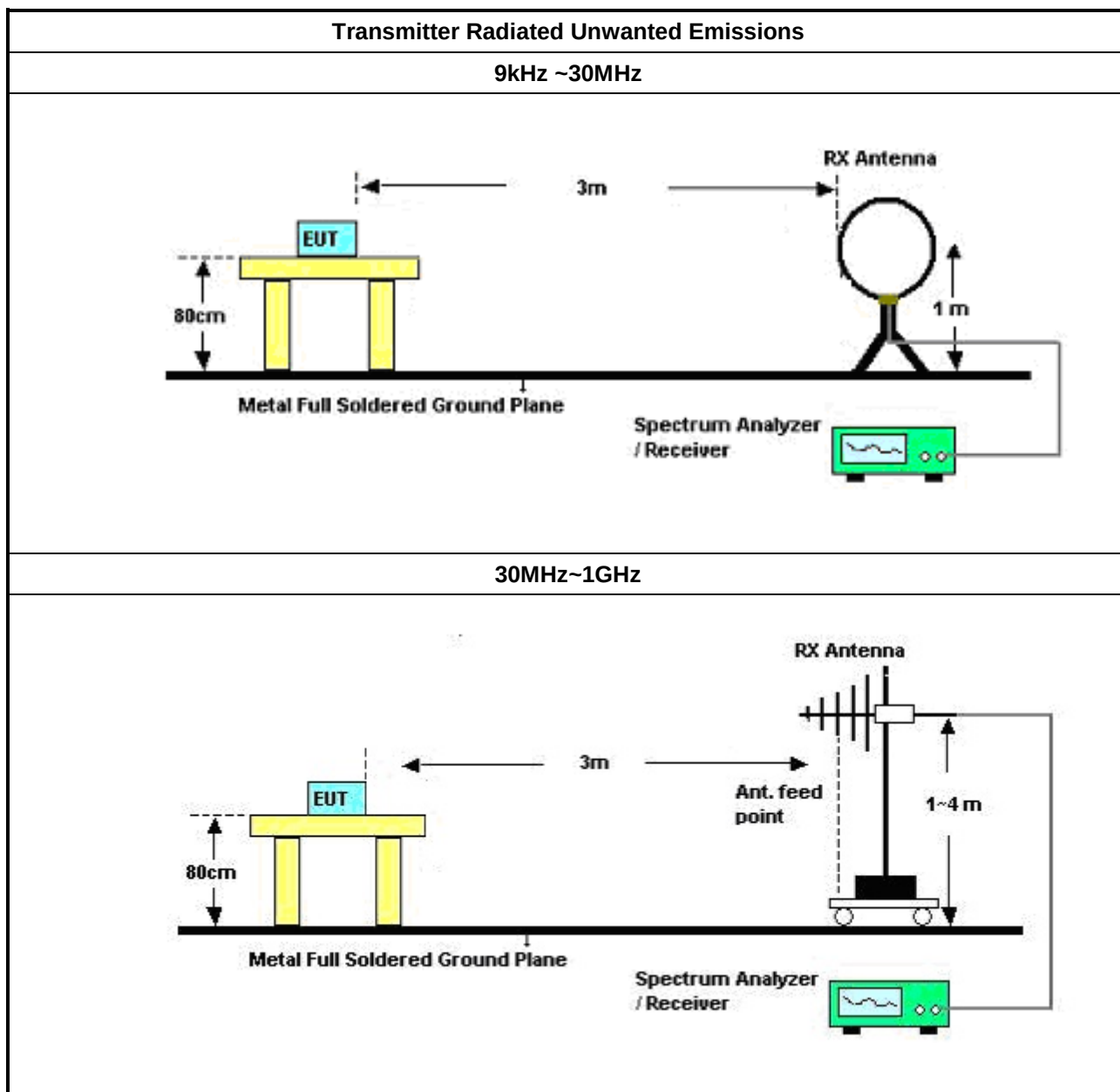
Test Method	
Measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. Measurements shall not be performed at a distance greater than 30 m for frequencies above 30 MHz, unless it can be further demonstrated that measurements at a distance of 30 m or less are impractical. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements).	
The average emission levels shall be measured in [duty cycle $\geq$ 98 or duty factor].	
For the transmitter unwanted emissions shall be measured using following options below:	
	Refer as KDB 789033, clause G)2) for unwanted emissions into non-restricted bands.
	Refer as KDB 789033, clause G)1) for unwanted emissions into restricted bands.
☒	Refer as KDB 789033, G)6) Method VB (ANSI C63.10, clause 4.1.4.2.3), Reduced VBW.
☒	Refer as KDB 789033, clause G)5) (ANSI C63.10, clause 4.1.4.2.2), measurement procedure peak limit.
For radiated measurement.	
	Refer as ANSI C63.10, clause 6.4 for radiated emissions below 30 MHz and test distance is 3m.
	Refer as ANSI C63.10, clause 6.5 for radiated emissions 30 MHz to 1 GHz and test distance is 3m.
	Refer as ANSI C63.10, clause 6.6 for radiated emissions above 1GHz.
The any unwanted emissions level shall not exceed the fundamental emission level.	
All amplitude of spurious emissions that are attenuated by more than 20 dB below the permissible value has no need to be reported.	
Use the following spectrum analyzer settings:	
	Set RBW=100 kHz for $f < 1$ GHz; VBW=3 * RBW; Sweep = auto; Detector function = peak; Trace = max hold.
	Set RBW = 1 MHz, VBW= 3MHz for $f \geq 1$ GHz for peak measurement. For average measurement, refer as 1.1.4.
KDB 414788 Open-Field Test Sites and Chamber Correlation Justification.	
	Based on FCC 15.31(f)(2): measurements may be performed at a distance closer than that specified in regulations; however, an attempt should be made to avoid making measurements in the near field.
	Open-field site and chamber correlation testing had been performed and chamber measured test result is the worst case test result.

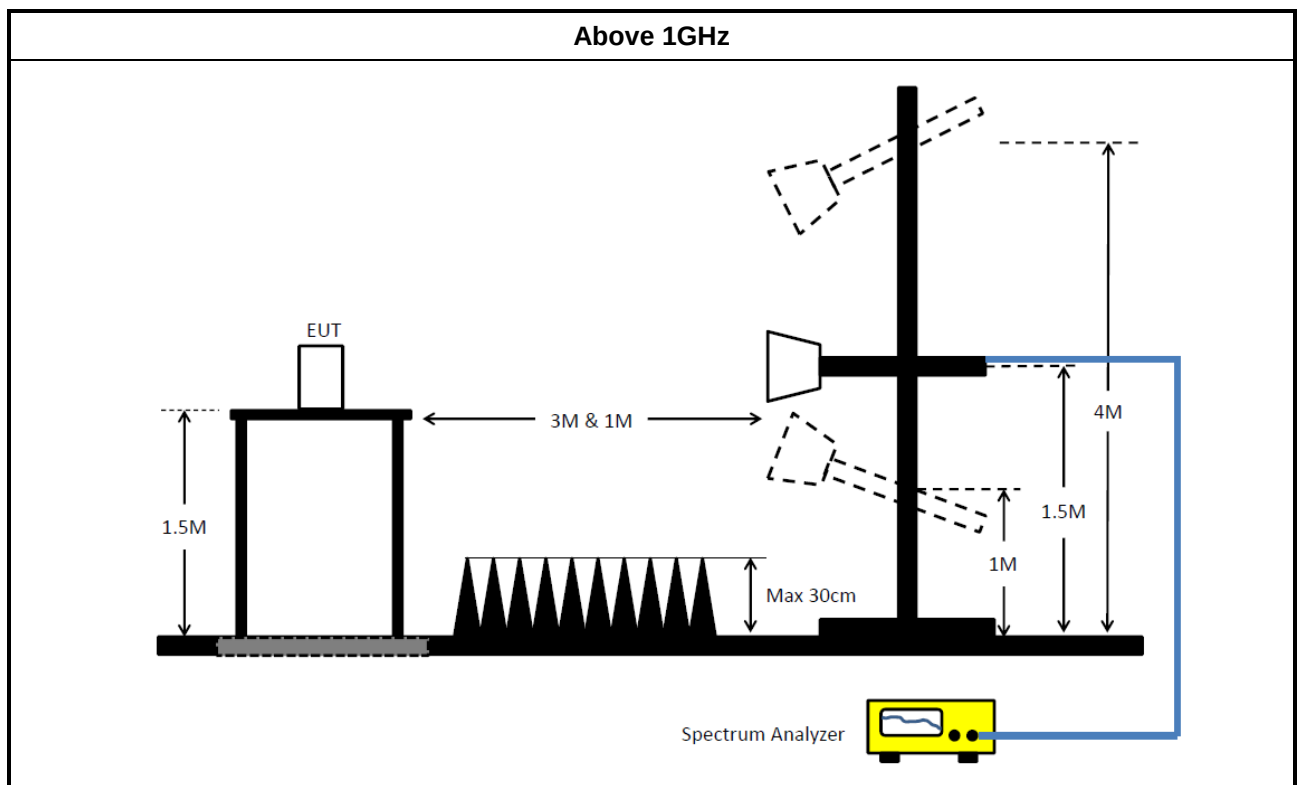
3.5.4 Measurement Results Calculation

The measured Level is calculated using:

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

3.5.5 Test Setup





3.5.6 Transmitter Unwanted Emissions (Below 30MHz)

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

3.5.7 Test Result of Transmitter Unwanted Emissions

Refer as Appendix E

4 Test Equipment and Calibration Data

Instrument for AC Conduction (WiFi A)

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
EMI Test Receiver	R&S	ESR	102052	9kHz ~ 3.6GHz	19/Apr/2021	18/Apr/2022
LISN	R&S	ENV216	101295	9kHz ~ 30MHz	11/Nov/2020	10/Nov/2021
RF Cable 5m	TITAN	TITAN	CO04-cable-01	0.1MHz~200MHz	03/Mar/2021	02/Mar/2022
Impuls Begrenzer Pulse Limiter	SCHWARZBECK	VTSD 9561-F	9561-F041	9kHz ~ 30MHz	21/Sep/2020	20/Sep/2021

Instrument for AC Conduction (WiFi B)

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
EMI Test Receiver	R&S	ESR	102052	9kHz ~ 3.6GHz	19/Apr/2021	18/Apr/2022
LISN	R&S	ENV216	101295	9kHz ~ 30MHz	11/Nov/2020	10/Nov/2021
RF Cable 5m	TITAN	TITAN	CO04-cable-01	0.1MHz~200MHz	03/Mar/2021	02/Mar/2022
Impuls Begrenzer Pulse Limiter	SCHWARZBECK	VTSD 9561-F	9561-F041	9kHz ~ 30MHz	21/Sep/2020	20/Sep/2021
LISN (Support Unit)	SCHWARZBECK MESS-ELEKTRO NIK	NSLK 8127	8127477	9kHz ~ 30MHz	25/Feb/2021	24/Feb/2022

Instrument for Conducted Test (WiFi A)

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
Signal Analyzer	R&S	FSV 40	101515	10Hz~40GHz	26/Mar/2021	25/Mar/2022
SMB100A Signal Generator	R&S	SMB100A03	181147	100kHz~40GHz	20/Oct/2020	19/Oct/2021
Pulse Sensor	Anritsu	MA2411B	1339407	300MHz~40GHz	27/Nov/2020	26/Nov/2021
Power Meter	Anritsu	ML2495A	1517010	300MHz~40GHz	27/Nov/2020	26/Nov/2021

Instrument for Conducted Test (WiFi B)

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
Signal Analyzer	R&S	FSV 40	101029	10Hz~40GHz	19/Oct/2020	18/Oct/2021
SMB100A Signal Generator	R&S	SMB100A03	181147	100kHz~40GHz	20/Oct/2020	19/Oct/2021
Pulse Sensor	Anritsu	MA2411B	0917017	300MHz~40GHz	23/Feb/2021	22/Feb/2022
Power Meter	Anritsu	ML2495A	0949003	300MHz~40GHz	23/Feb/2021	22/Feb/2022
Pulse 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

**Instrument for Radiated Test (WiFi A)**

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	TDK	SAC-3M	03CH09-HY	30MHz~1GHz 3m	26/Mar/2021	25/Mar/2022
3m Semi Anechoic Chamber	TDK	SAC-3M	03CH09-HY	1GHz~18GHz 3m	18/Mar/2021	17/Mar/2022
EXA Signal Analyzer	KEYSIGHT	N9010A	MY54200885	10Hz~44GHz	11/Aug/2020	10/Aug/2021
Amplifier	EMC	EMC9135	980232	9kHz~1GHz	12/Apr/2021	11/Apr/2022
Microwave Preamplifier	Agilent	8449B	3008A02096	1GHz~26.5GHz	24/Jul/2020	23/Jul/2021
Bilog Antenna & 5dB Attenuator	TESEQ & MTJ	CBL6111D&MT J6102-05	35418 & 3	30MHz~1GHz	06/Sep/2020	05/Sep/2021
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	BBHA9120 D 1534	1GHz~18GHz	18/May/2021	17/May/2022
RF Cable-low	Jye Bao	RG142	CB031+324530/4	9kHz~30MHz	03/Sep/2020	02/Sep/2021
RF Cable-low	Jye Bao	RG142	CB031+324530/4	30MHz~1GHz	09/Feb/2021	08/Feb/2022
RF CABLE 5m+3m+1m	HUBER+ SUHNER	SUCOFLEX104	SN MY25918/4+ SN MY39478/4 + SN 324530/4	1GHz~40GHz	15/Aug/2020	14/Aug/2021
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA 9170221	18GHz~40GHz	11/Mar/2021	10/Mar/2022
Microwave Premplifier	EMC INSTRUMENTS	EM18G40G	060604	18GHz ~ 40GHz	09/Mar/2021	08/Mar/2022
Loop Antenna	TESEQ	HLA 6120	31244	9kHz~30MHz	16/Mar/2021	15/Mar/2022
EMI Test Receiver	R&S	ESR3	102052	9kHz~3.6GHz	19/Apr/2021	18/Apr/2022

**Instrument for Radiated Test (below 1GHz) (WiFi B)**

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	TDK	SAC-3M	03CH09-HY	30MHz~1GHz 3m	26/Mar/2021	25/Mar/2022
EXA Signal Analyzer	KEYSIGHT	N9010A	MY54200885	10Hz~44GHz	11/Aug/2020	10/Aug/2021
Amplifier	EMC	EMC9135	980232	9kHz~1GHz	12/Apr/2021	11/Apr/2022
Bilog Antenna & 5dB Attenuator	TESEQ & MTJ	CBL6111D&MTJ6 102-05	35418 & 3	30MHz~1GHz	06/Sep/2020	05/Sep/2021
RF Cable-low	Jye Bao	RG142	CB031+324530/4	9kHz~30MHz	03/Sep/2020	02/Sep/2021
RF Cable-low	Jye Bao	RG142	CB031+324530/4	30MHz~1GHz	09/Feb/2021	08/Feb/2022
Loop Antenna	TESEQ	HLA 6120	31244	9kHz~30MHz	16/Mar/2021	15/Mar/2022
EMI Test Receiver	R&S	ESR3	102051	9kHz~3.6GHz	21/May/2021	20/May/2022

Instrument for Radiated Test (above 1GHz) (WiFi B)

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	TDK	SAC-3M	03CH09-HY	1GHz~18GHz 3m	19/Mar/2020	18/Mar/2021
3m Semi Anechoic Chamber	TDK	SAC-3M	03CH09-HY	1GHz~18GHz 3m	18/Mar/2021	17/Mar/2022
EXA Signal Analyzer	KEYSIGHT	N9010A	MY54200885	10Hz~44GHz	11/Aug/2020	10/Aug/2021
Microwave Preamplifier	Agilent	8449B	3008A02096	1GHz~26.5GHz	24/Jul/2020	23/Jul/2021
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	BBHA9120 D 1534	1GHz~18GHz	28/May/2020	27/May/2021
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	BBHA9120 D 1534	1GHz~18GHz	18/May/2021	17/May/2022
RF CABLE 5m+3m+1m	HUBER+SUHNER	SUCOFLEX104	SN MY25918/4+ SN MY39478/4 + SN 324530/4	1GHz~40GHz	15/Aug/2020	14/Aug/2021
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA 9170221	18GHz~40GHz	13/Mar/2020	12/Mar/2021
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA 9170221	18GHz~40GHz	11/Mar/2021	10/Mar/2022
Preamplifier	MITEQ	TTA1840-35-H G	1864481	18GHz~40GHz	10/Mar/2020	09/Mar/2021



Conducted Emissions at Powerline_Non-Beamforming_WiFi A Appendix A.1

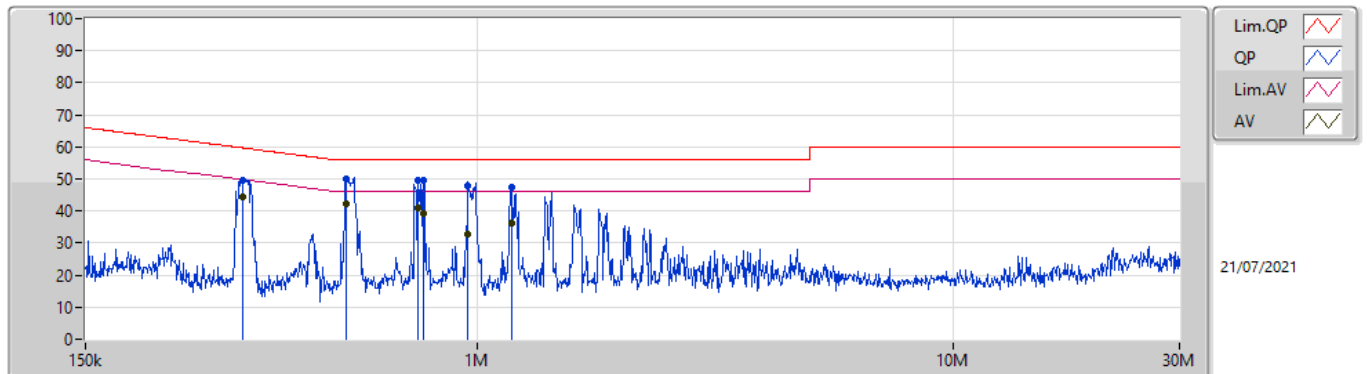
Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	AV	531.714k	42.43	46.00	-3.57	Line

Result

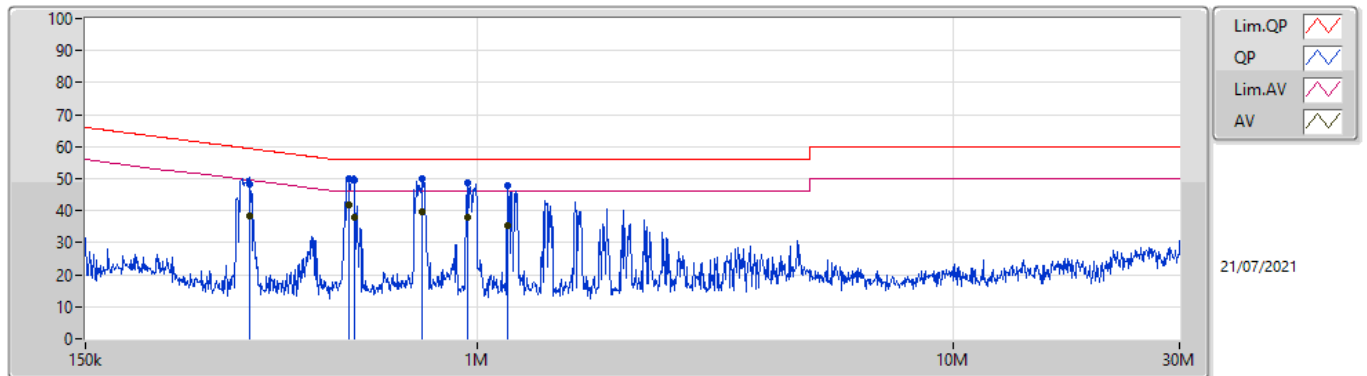
Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition	Comments
Mode 1	Pass	QP	320.256k	49.60	59.71	-10.11	Line	-
Mode 1	Pass	AV	320.256k	44.58	49.71	-5.13	Line	-
Mode 1	Pass	QP	531.714k	50.20	56.00	-5.80	Line	-
Mode 1	Pass	AV	531.714k	42.43	46.00	-3.57	Line	-
Mode 1	Pass	QP	749.51k	49.69	56.00	-6.31	Line	-
Mode 1	Pass	AV	749.51k	40.91	46.00	-5.09	Line	-
Mode 1	Pass	QP	770.75k	49.78	56.00	-6.22	Line	-
Mode 1	Pass	AV	770.75k	39.22	46.00	-6.78	Line	-
Mode 1	Pass	QP	956.168k	47.64	56.00	-8.36	Line	-
Mode 1	Pass	AV	956.168k	32.82	46.00	-13.18	Line	-
Mode 1	Pass	QP	1.181M	47.42	56.00	-8.58	Line	-
Mode 1	Pass	AV	1.181M	36.18	46.00	-9.82	Line	-
Mode 1	Pass	QP	333.299k	48.36	59.37	-11.01	Neutral	-
Mode 1	Pass	AV	333.299k	38.15	49.37	-11.22	Neutral	-
Mode 1	Pass	QP	535.976k	50.00	56.00	-6.00	Neutral	-
Mode 1	Pass	AV	535.976k	41.99	46.00	-4.01	Neutral	-
Mode 1	Pass	QP	553.37k	49.43	56.00	-6.57	Neutral	-
Mode 1	Pass	AV	553.37k	37.79	46.00	-8.21	Neutral	-
Mode 1	Pass	QP	767.679k	49.86	56.00	-6.14	Neutral	-
Mode 1	Pass	AV	767.679k	39.81	46.00	-6.19	Neutral	-
Mode 1	Pass	QP	956.168k	48.82	56.00	-7.18	Neutral	-
Mode 1	Pass	AV	956.168k	38.10	46.00	-7.90	Neutral	-
Mode 1	Pass	QP	1.158M	47.80	56.00	-8.20	Neutral	-
Mode 1	Pass	AV	1.158M	35.40	46.00	-10.60	Neutral	-

Conducted Emissions at Powerline_Mode 1



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	320.256k	49.60	59.71	-10.11	19.62	Line	-	29.98	9.67	0.05	9.90			
AV	320.256k	44.58	49.71	-5.13	19.62	Line	-	24.96	9.67	0.05	9.90			
QP	531.714k	50.20	56.00	-5.80	19.61	Line	-	30.59	9.67	0.07	9.87			
AV	531.714k	42.43	46.00	-3.57	19.61	Line	-	22.82	9.67	0.07	9.87			
QP	749.51k	49.69	56.00	-6.31	19.57	Line	-	30.12	9.67	0.07	9.83			
AV	749.51k	40.91	46.00	-5.09	19.57	Line	-	21.34	9.67	0.07	9.83			
QP	770.75k	49.78	56.00	-6.22	19.57	Line	-	30.21	9.67	0.07	9.83			
AV	770.75k	39.22	46.00	-6.78	19.57	Line	-	19.65	9.67	0.07	9.83			
QP	956.168k	47.64	56.00	-8.36	19.55	Line	-	28.09	9.67	0.08	9.80			
AV	956.168k	32.82	46.00	-13.18	19.55	Line	-	13.27	9.67	0.08	9.80			
QP	1.181M	47.42	56.00	-8.58	19.55	Line	-	27.87	9.67	0.08	9.80			
AV	1.181M	36.18	46.00	-9.82	19.55	Line	-	16.63	9.67	0.08	9.80			

Conducted Emissions at Powerline_Mode 1



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	333.299k	48.36	59.37	-11.01	19.62	Neutral	-	28.74	9.67	0.05	9.90			
AV	333.299k	38.15	49.37	-11.22	19.62	Neutral	-	18.53	9.67	0.05	9.90			
QP	535.976k	50.00	56.00	-6.00	19.61	Neutral	-	30.39	9.67	0.07	9.87			
AV	535.976k	41.99	46.00	-4.01	19.61	Neutral	-	22.38	9.67	0.07	9.87			
QP	553.37k	49.43	56.00	-6.57	19.60	Neutral	-	29.83	9.67	0.07	9.86			
AV	553.37k	37.79	46.00	-8.21	19.60	Neutral	-	18.19	9.67	0.07	9.86			
QP	767.679k	49.86	56.00	-6.14	19.57	Neutral	-	30.29	9.67	0.07	9.83			
AV	767.679k	39.81	46.00	-6.19	19.57	Neutral	-	20.24	9.67	0.07	9.83			
QP	956.168k	48.82	56.00	-7.18	19.55	Neutral	-	29.27	9.67	0.08	9.80			
AV	956.168k	38.10	46.00	-7.90	19.55	Neutral	-	18.55	9.67	0.08	9.80			
QP	1.158M	47.80	56.00	-8.20	19.55	Neutral	-	28.25	9.67	0.08	9.80			
AV	1.158M	35.40	46.00	-10.60	19.55	Neutral	-	15.85	9.67	0.08	9.80			



Conducted Emissions at Powerline_Non-Beamforming_WiFi B Appendix A.2

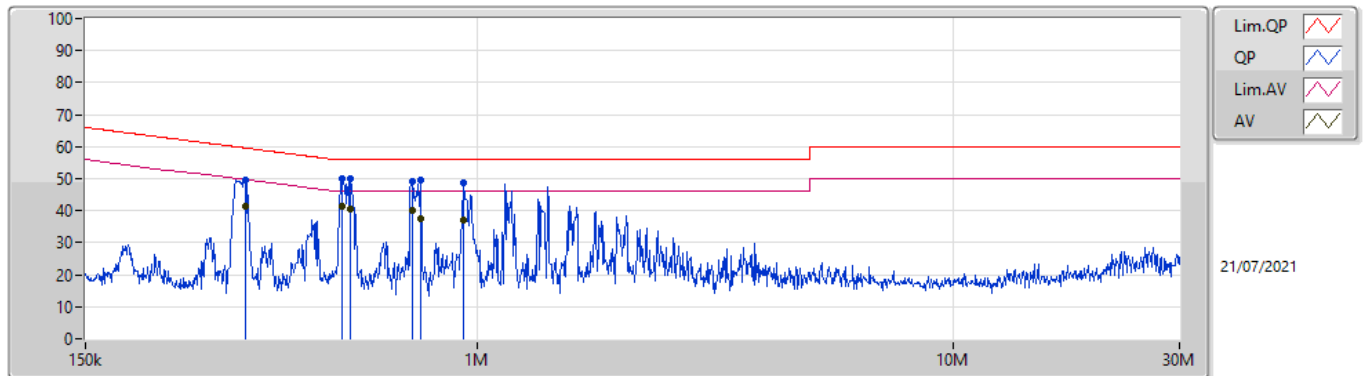
Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	AV	519.13k	41.25	46.00	-4.75	Line

Result

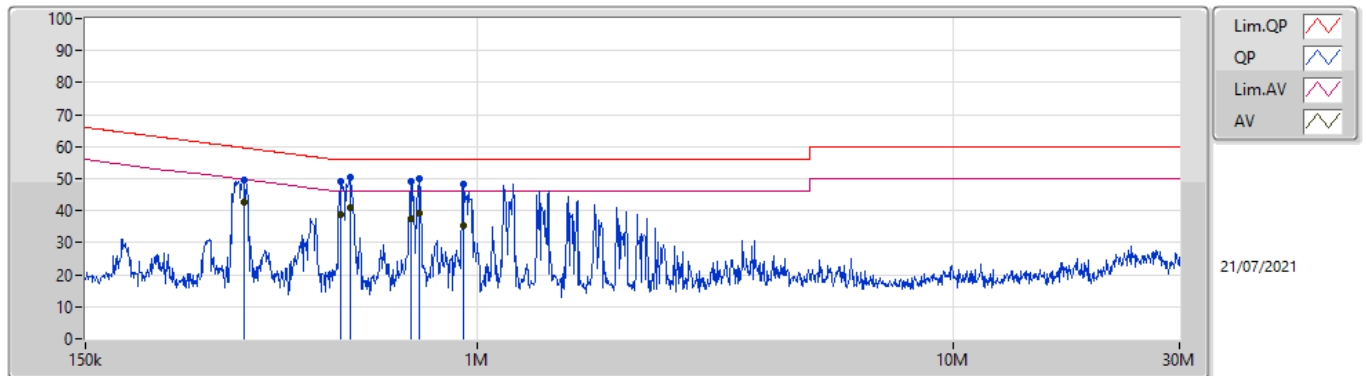
Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition	Comments
Mode 1	Pass	QP	325.41k	49.68	59.58	-9.90	Line	-
Mode 1	Pass	AV	325.41k	41.27	49.58	-8.31	Line	-
Mode 1	Pass	QP	519.13k	49.81	56.00	-6.19	Line	-
Mode 1	Pass	AV	519.13k	41.25	46.00	-4.75	Line	-
Mode 1	Pass	QP	542.434k	50.16	56.00	-5.84	Line	-
Mode 1	Pass	AV	542.434k	40.40	46.00	-5.60	Line	-
Mode 1	Pass	QP	728.856k	49.30	56.00	-6.70	Line	-
Mode 1	Pass	AV	728.856k	39.90	46.00	-6.10	Line	-
Mode 1	Pass	QP	758.54k	49.75	56.00	-6.25	Line	-
Mode 1	Pass	AV	758.54k	37.55	46.00	-8.45	Line	-
Mode 1	Pass	QP	937.272k	48.59	56.00	-7.41	Line	-
Mode 1	Pass	AV	937.272k	36.98	46.00	-9.02	Line	-
Mode 1	Pass	QP	324.114k	49.67	59.59	-9.92	Neutral	-
Mode 1	Pass	AV	324.114k	42.86	49.59	-6.73	Neutral	-
Mode 1	Pass	QP	517.062k	49.23	56.00	-6.77	Neutral	-
Mode 1	Pass	AV	517.062k	38.81	46.00	-7.19	Neutral	-
Mode 1	Pass	QP	542.434k	50.39	56.00	-5.61	Neutral	-
Mode 1	Pass	AV	542.434k	41.13	46.00	-4.87	Neutral	-
Mode 1	Pass	QP	725.952k	49.17	56.00	-6.83	Neutral	-
Mode 1	Pass	AV	725.952k	37.48	46.00	-8.52	Neutral	-
Mode 1	Pass	QP	755.518k	49.79	56.00	-6.21	Neutral	-
Mode 1	Pass	AV	755.518k	39.26	46.00	-6.74	Neutral	-
Mode 1	Pass	QP	933.537k	48.37	56.00	-7.63	Neutral	-
Mode 1	Pass	AV	933.537k	35.38	46.00	-10.62	Neutral	-

Conducted Emissions at Powerline_Mode 1



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	325.41k	49.68	59.58	-9.90	19.62	Line	-	30.06	9.67	0.05	9.90			
AV	325.41k	41.27	49.58	-8.31	19.62	Line	-	21.65	9.67	0.05	9.90			
QP	519.13k	49.81	56.00	-6.19	19.61	Line	-	30.20	9.67	0.07	9.87			
AV	519.13k	41.25	46.00	-4.75	19.61	Line	-	21.64	9.67	0.07	9.87			
QP	542.434k	50.16	56.00	-5.84	19.61	Line	-	30.55	9.67	0.07	9.87			
AV	542.434k	40.40	46.00	-5.60	19.61	Line	-	20.79	9.67	0.07	9.87			
QP	728.856k	49.30	56.00	-6.70	19.57	Line	-	29.73	9.67	0.07	9.83			
AV	728.856k	39.90	46.00	-6.10	19.57	Line	-	20.33	9.67	0.07	9.83			
QP	758.54k	49.75	56.00	-6.25	19.57	Line	-	30.18	9.67	0.07	9.83			
AV	758.54k	37.55	46.00	-8.45	19.57	Line	-	17.98	9.67	0.07	9.83			
QP	937.272k	48.59	56.00	-7.41	19.56	Line	-	29.03	9.67	0.08	9.81			
AV	937.272k	36.98	46.00	-9.02	19.56	Line	-	17.42	9.67	0.08	9.81			

Conducted Emissions at Powerline_Mode 1



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	324.114k	49.67	59.59	-9.92	19.62	Neutral	-	30.05	9.67	0.05	9.90			
AV	324.114k	42.86	49.59	-6.73	19.62	Neutral	-	23.24	9.67	0.05	9.90			
QP	517.062k	49.23	56.00	-6.77	19.61	Neutral	-	29.62	9.67	0.07	9.87			
AV	517.062k	38.81	46.00	-7.19	19.61	Neutral	-	19.20	9.67	0.07	9.87			
QP	542.434k	50.39	56.00	-5.61	19.61	Neutral	-	30.78	9.67	0.07	9.87			
AV	542.434k	41.13	46.00	-4.87	19.61	Neutral	-	21.52	9.67	0.07	9.87			
QP	725.952k	49.17	56.00	-6.83	19.57	Neutral	-	29.60	9.67	0.07	9.83			
AV	725.952k	37.48	46.00	-8.52	19.57	Neutral	-	17.91	9.67	0.07	9.83			
QP	755.518k	49.79	56.00	-6.21	19.57	Neutral	-	30.22	9.67	0.07	9.83			
AV	755.518k	39.26	46.00	-6.74	19.57	Neutral	-	19.69	9.67	0.07	9.83			
QP	933.537k	48.37	56.00	-7.63	19.56	Neutral	-	28.81	9.67	0.08	9.81			
AV	933.537k	35.38	46.00	-10.62	19.56	Neutral	-	15.82	9.67	0.08	9.81			



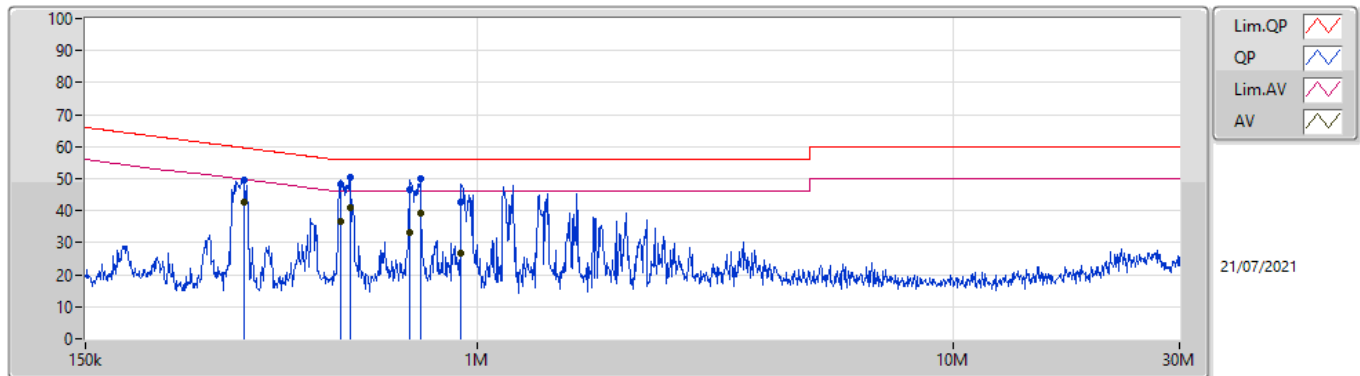
Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	AV	521.206k	41.10	46.00	-4.90	Neutral

Result

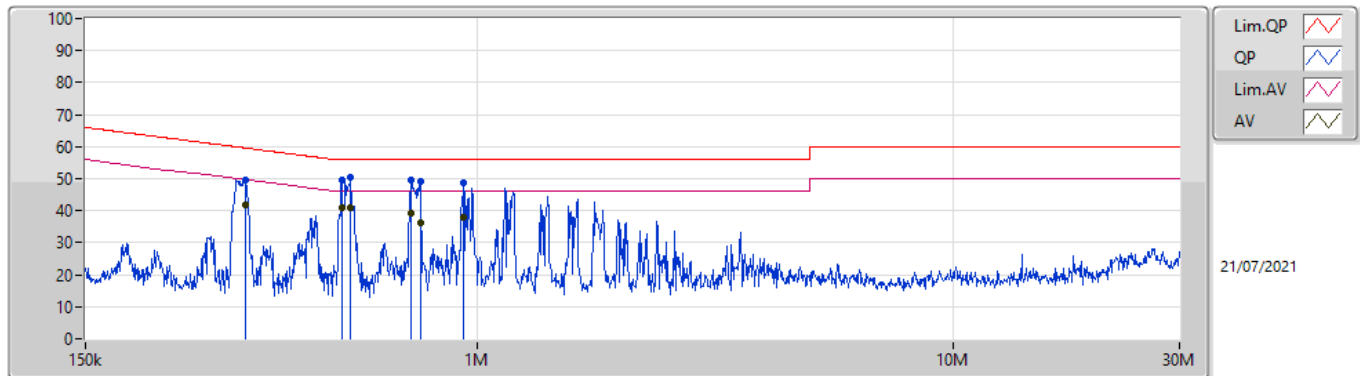
Mode	Result	Type	Freq (Hz)	Level (dBUV)	Limit (dBUV)	Margin (dB)	Condition	Comments
Mode 1	Pass	QP	322.823k	49.56	59.63	-10.07	Line	-
Mode 1	Pass	AV	322.823k	42.84	49.63	-6.79	Line	-
Mode 1	Pass	QP	515.002k	48.14	56.00	-7.86	Line	-
Mode 1	Pass	AV	515.002k	36.75	46.00	-9.25	Line	-
Mode 1	Pass	QP	542.434k	50.33	56.00	-5.67	Line	-
Mode 1	Pass	AV	542.434k	40.84	46.00	-5.16	Line	-
Mode 1	Pass	QP	723.06k	46.58	56.00	-9.42	Line	-
Mode 1	Pass	AV	723.06k	33.33	46.00	-12.67	Line	-
Mode 1	Pass	QP	758.54k	49.87	56.00	-6.13	Line	-
Mode 1	Pass	AV	758.54k	39.01	46.00	-6.99	Line	-
Mode 1	Pass	QP	926.114k	42.78	56.00	-13.22	Line	-
Mode 1	Pass	AV	926.114k	26.52	46.00	-19.48	Line	-
Mode 1	Pass	QP	325.41k	49.78	59.58	-9.80	Neutral	-
Mode 1	Pass	AV	325.41k	41.86	49.58	-7.72	Neutral	-
Mode 1	Pass	QP	521.206k	49.59	56.00	-6.41	Neutral	-
Mode 1	Pass	AV	521.206k	41.10	46.00	-4.90	Neutral	-
Mode 1	Pass	QP	542.434k	50.41	56.00	-5.59	Neutral	-
Mode 1	Pass	AV	542.434k	40.75	46.00	-5.25	Neutral	-
Mode 1	Pass	QP	725.952k	49.57	56.00	-6.43	Neutral	-
Mode 1	Pass	AV	725.952k	39.14	46.00	-6.86	Neutral	-
Mode 1	Pass	QP	758.54k	49.28	56.00	-6.72	Neutral	-
Mode 1	Pass	AV	758.54k	36.01	46.00	-9.99	Neutral	-
Mode 1	Pass	QP	933.537k	48.83	56.00	-7.17	Neutral	-
Mode 1	Pass	AV	933.537k	38.06	46.00	-7.94	Neutral	-

Conducted Emissions at Powerline_Mode 1



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	322.823k	49.56	59.63	-10.07	19.62	Line	-	29.94	9.67	0.05	9.90			
AV	322.823k	42.84	49.63	-6.79	19.62	Line	-	23.22	9.67	0.05	9.90			
QP	515.002k	48.14	56.00	-7.86	19.61	Line	-	28.53	9.67	0.07	9.87			
AV	515.002k	36.75	46.00	-9.25	19.61	Line	-	17.14	9.67	0.07	9.87			
QP	542.434k	50.33	56.00	-5.67	19.61	Line	-	30.72	9.67	0.07	9.87			
AV	542.434k	40.84	46.00	-5.16	19.61	Line	-	21.23	9.67	0.07	9.87			
QP	723.06k	46.58	56.00	-9.42	19.58	Line	-	27.00	9.67	0.07	9.84			
AV	723.06k	33.33	46.00	-12.67	19.58	Line	-	13.75	9.67	0.07	9.84			
QP	758.54k	49.87	56.00	-6.13	19.57	Line	-	30.30	9.67	0.07	9.83			
AV	758.54k	39.01	46.00	-6.99	19.57	Line	-	19.44	9.67	0.07	9.83			
QP	926.114k	42.78	56.00	-13.22	19.56	Line	-	23.22	9.67	0.08	9.81			
AV	926.114k	26.52	46.00	-19.48	19.56	Line	-	6.96	9.67	0.08	9.81			

Conducted Emissions at Powerline_Mode 1



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	325.41k	49.78	59.58	-9.80	19.62	Neutral	-	30.16	9.67	0.05	9.90			
AV	325.41k	41.86	49.58	-7.72	19.62	Neutral	-	22.24	9.67	0.05	9.90			
QP	521.206k	49.59	56.00	-6.41	19.61	Neutral	-	29.98	9.67	0.07	9.87			
AV	521.206k	41.10	46.00	-4.90	19.61	Neutral	-	21.49	9.67	0.07	9.87			
QP	542.434k	50.41	56.00	-5.59	19.61	Neutral	-	30.80	9.67	0.07	9.87			
AV	542.434k	40.75	46.00	-5.25	19.61	Neutral	-	21.14	9.67	0.07	9.87			
QP	725.952k	49.57	56.00	-6.43	19.57	Neutral	-	30.00	9.67	0.07	9.83			
AV	725.952k	39.14	46.00	-6.86	19.57	Neutral	-	19.57	9.67	0.07	9.83			
QP	758.54k	49.28	56.00	-6.72	19.57	Neutral	-	29.71	9.67	0.07	9.83			
AV	758.54k	36.01	46.00	-9.99	19.57	Neutral	-	16.44	9.67	0.07	9.83			
QP	933.537k	48.83	56.00	-7.17	19.56	Neutral	-	29.27	9.67	0.08	9.81			
AV	933.537k	38.06	46.00	-7.94	19.56	Neutral	-	18.50	9.67	0.08	9.81			

Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.15-5.25GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	24.54M	16.942M	16M9D1D	23.22M	16.762M
802.11ax HEW20_Nss1,(MCS0)_1TX	25.41M	19.07M	19M1D1D	23.94M	19.04M
802.11ax HEW40_Nss1,(MCS0)_1TX	43.14M	38.021M	38M0D1D	42.24M	38.021M
802.11ax HEW80_Nss1,(MCS0)_1TX	82.08M	77.601M	77M6D1D	82.08M	77.601M
5.25-5.35GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	31.14M	17.061M	17M1D1D	26.73M	16.912M
802.11ax HEW20_Nss1,(MCS0)_1TX	33.45M	19.13M	19M1D1D	30.63M	19.1M
802.11ax HEW40_Nss1,(MCS0)_1TX	69.6M	38.261M	38M3D1D	43.02M	38.141M
802.11ax HEW80_Nss1,(MCS0)_1TX	81.48M	77.841M	77M8D1D	81.48M	77.841M
5.47-5.725GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	32.25M	17.091M	17M1D1D	22.335M	13.988M
802.11ax HEW20_Nss1,(MCS0)_1TX	44.55M	19.13M	19M1D1D	25.02M	14.783M
802.11ax HEW40_Nss1,(MCS0)_1TX	71.1M	38.321M	38M3D1D	42.6M	34.283M
802.11ax HEW80_Nss1,(MCS0)_1TX	123.12M	78.201M	78M2D1D	96.525M	73.988M
5.725-5.85GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	16.35M	19.7M	19M7D1D	3.14M	8.716M
802.11ax HEW20_Nss1,(MCS0)_1TX	18.96M	24.588M	24M6D1D	4.5M	10.995M
802.11ax HEW40_Nss1,(MCS0)_1TX	37.98M	61.589M	61M6D1D	3.98M	24.308M
802.11ax HEW80_Nss1,(MCS0)_1TX	76.8M	81.799M	81M8D1D	3.68M	33.243M

Max-N dB = Maximum 6dB down bandwidth for 5.725-5.85GHz band / Maximum 26dB down bandwidth for other band;
 Max-OBW = Maximum 99% occupied bandwidth;
 Min-N dB = Minimum 6dB down bandwidth for 5.725-5.85GHz band / Maximum 26dB down bandwidth for other band;
 Min-OBW = Minimum 99% occupied bandwidth

Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
802.11a_Nss1,(6Mbps)_1TX	-	-	-	-
5180MHz	Pass	Inf	24.42M	16.912M
5200MHz	Pass	Inf	24.54M	16.942M
5240MHz	Pass	Inf	23.22M	16.762M
5260MHz	Pass	Inf	31.14M	16.972M
5300MHz	Pass	Inf	28.35M	17.061M
5320MHz	Pass	Inf	26.73M	16.912M
5500MHz	Pass	Inf	32.25M	17.001M
5580MHz	Pass	Inf	28.86M	17.001M
5700MHz	Pass	Inf	26.73M	17.091M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	22.335M	13.988M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	3.14M	8.716M
5745MHz	Pass	500k	16.32M	18.801M
5785MHz	Pass	500k	16.35M	19.61M
5825MHz	Pass	500k	16.32M	19.7M
802.11ax HEW20_Nss1,(MCS0)_1TX	-	-	-	-
5180MHz	Pass	Inf	25.11M	19.07M
5200MHz	Pass	Inf	25.41M	19.04M
5240MHz	Pass	Inf	23.94M	19.04M
5260MHz	Pass	Inf	30.63M	19.1M
5300MHz	Pass	Inf	33.45M	19.13M
5320MHz	Pass	Inf	33M	19.1M
5500MHz	Pass	Inf	44.55M	19.1M
5580MHz	Pass	Inf	34.65M	19.13M
5700MHz	Pass	Inf	25.02M	19.04M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	26.04M	14.783M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	4.5M	10.995M
5745MHz	Pass	500k	18.93M	21.319M
5785MHz	Pass	500k	18.96M	24.558M
5825MHz	Pass	500k	18.96M	24.588M
802.11ax HEW40_Nss1,(MCS0)_1TX	-	-	-	-
5190MHz	Pass	Inf	43.14M	38.021M
5230MHz	Pass	Inf	42.24M	38.021M
5270MHz	Pass	Inf	69.6M	38.261M
5310MHz	Pass	Inf	43.02M	38.141M
5510MHz	Pass	Inf	42.6M	38.021M
5550MHz	Pass	Inf	71.1M	38.261M
5670MHz	Pass	Inf	69.9M	38.321M
5710MHz Straddle 5.47-5.725GHz	Pass	Inf	54.6M	34.283M
5710MHz Straddle 5.725-5.85GHz	Pass	500k	3.98M	24.308M
5755MHz	Pass	500k	37.86M	60.15M
5795MHz	Pass	500k	37.98M	61.589M
802.11ax HEW80_Nss1,(MCS0)_1TX	-	-	-	-
5210MHz	Pass	Inf	82.08M	77.601M
5290MHz	Pass	Inf	81.48M	77.841M
5530MHz	Pass	Inf	98.28M	77.721M
5610MHz	Pass	Inf	123.12M	78.201M
5690MHz Straddle 5.47-5.725GHz	Pass	Inf	96.525M	73.988M
5690MHz Straddle 5.725-5.85GHz	Pass	500k	3.68M	33.243M
5775MHz	Pass	500k	76.8M	81.799M

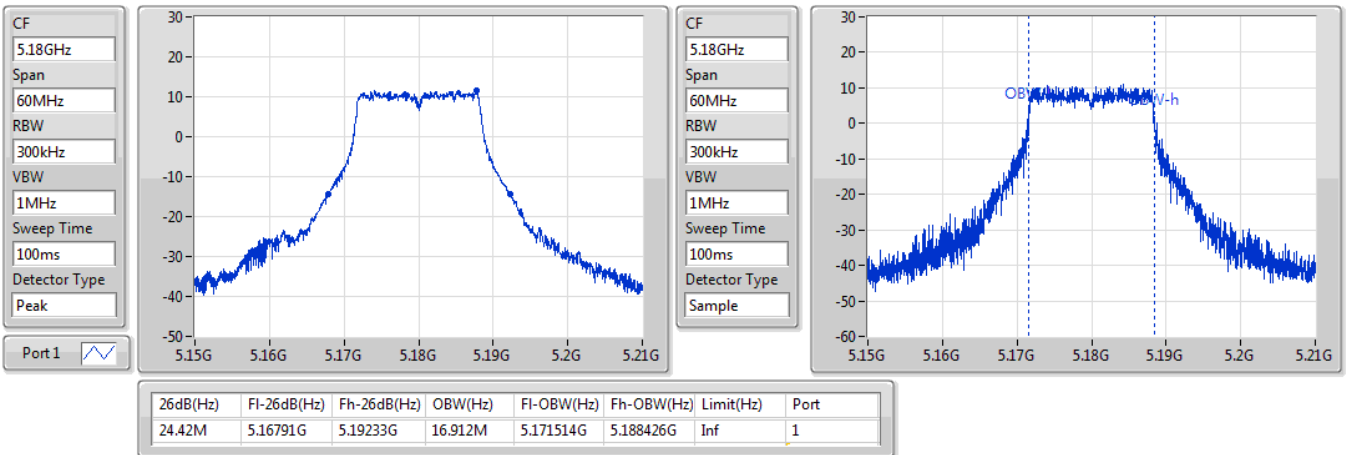
Port X-N dB = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band
Port X-OBW = Port X 99% occupied bandwidth

802.11a_Nss1,(6Mbps)_1TX

EBW

5180MHz

16/07/2021

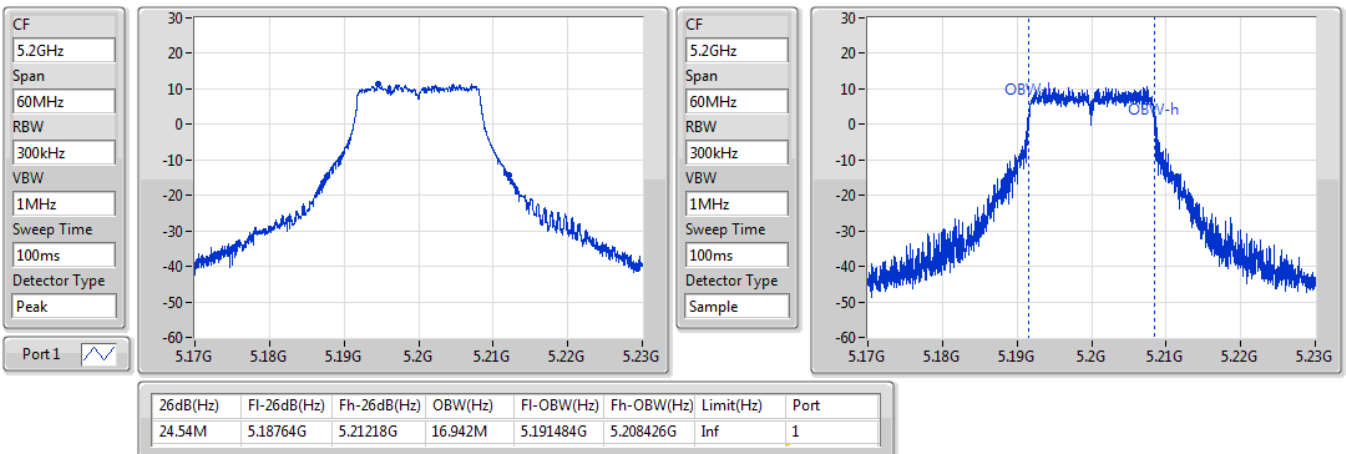


802.11a_Nss1,(6Mbps)_1TX

EBW

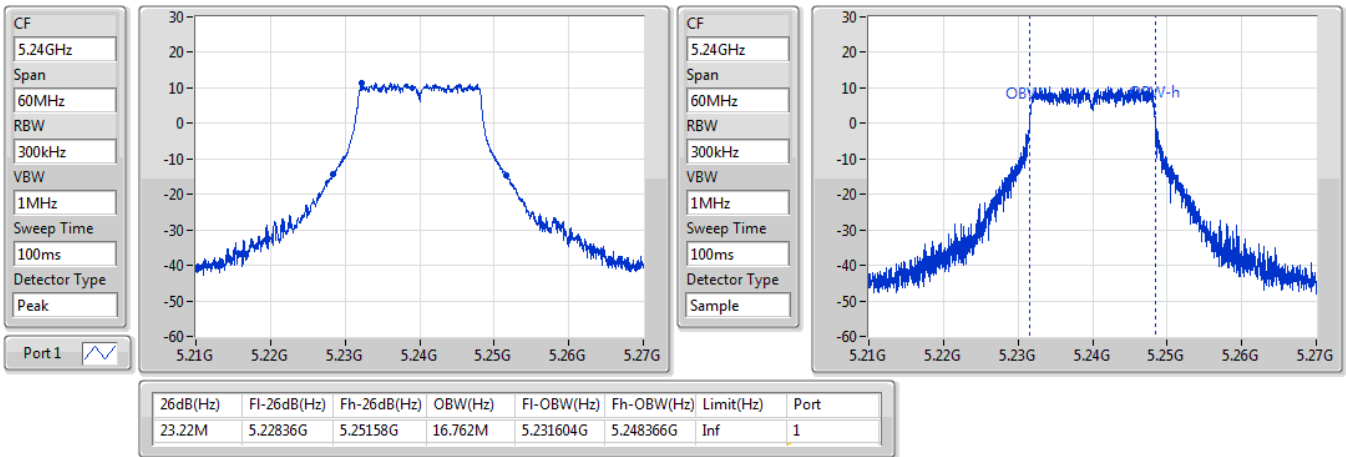
5200MHz

16/07/2021

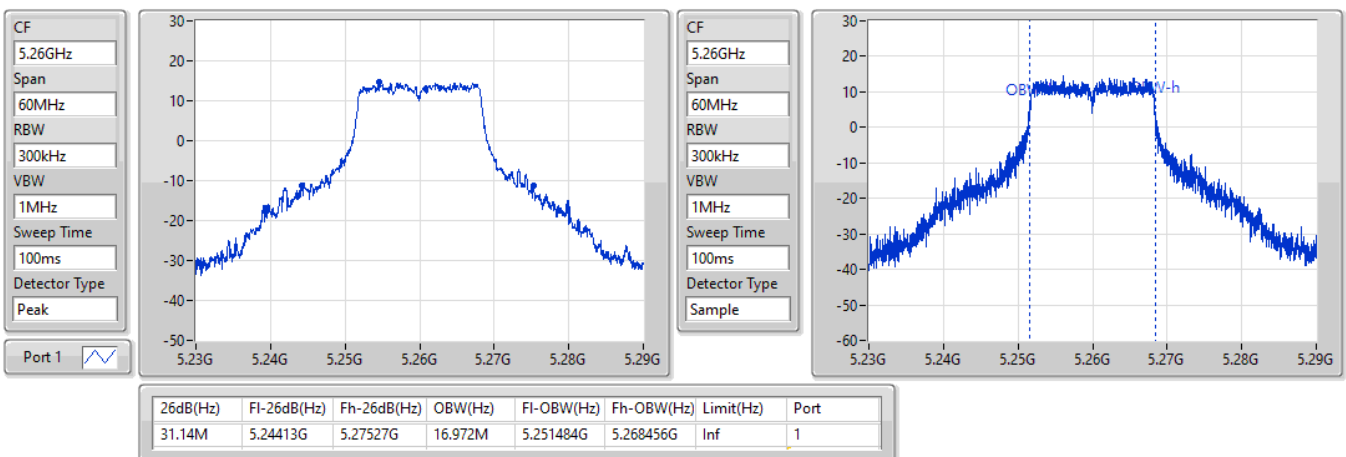


802.11a_Nss1,(6Mbps)_1TX
EBW
5240MHz

16/07/2021


802.11a_Nss1,(6Mbps)_1TX
EBW
5260MHz

21/06/2021

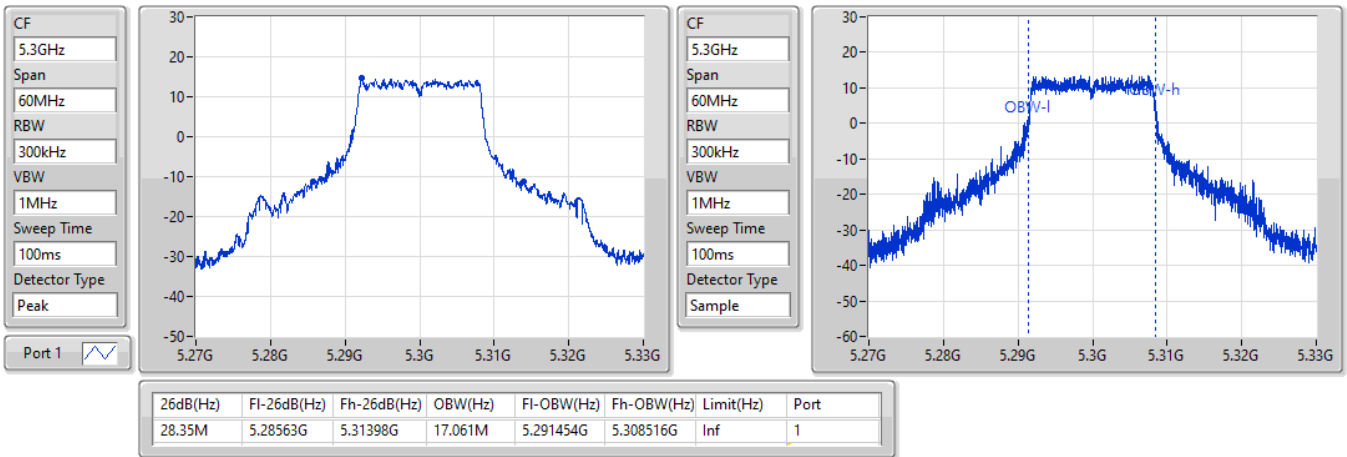


802.11a_Nss1,(6Mbps)_1TX

EBW

5300MHz

21/06/2021

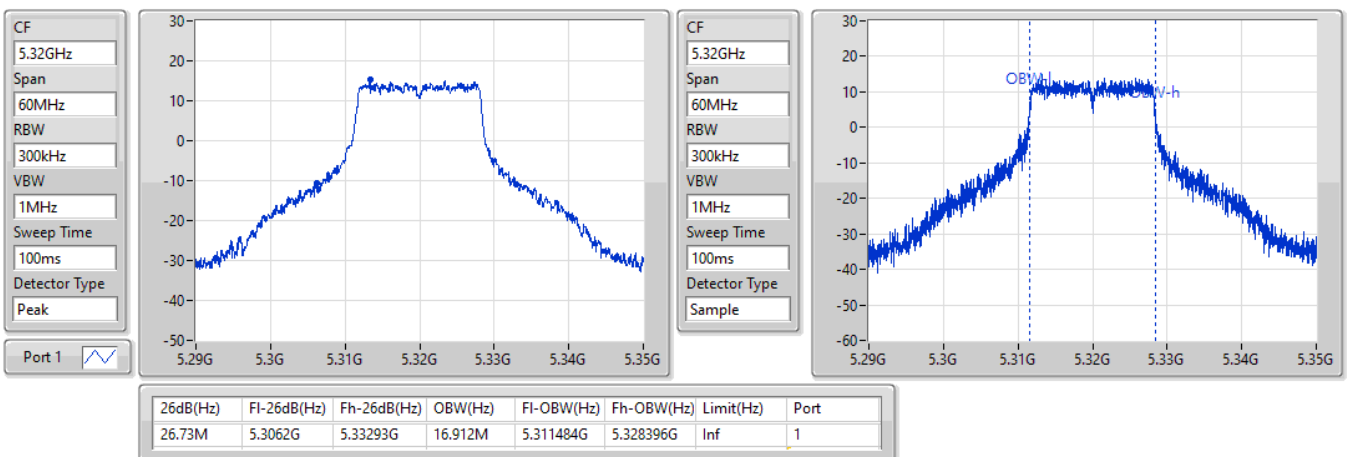


802.11a_Nss1,(6Mbps)_1TX

EBW

5320MHz

21/06/2021

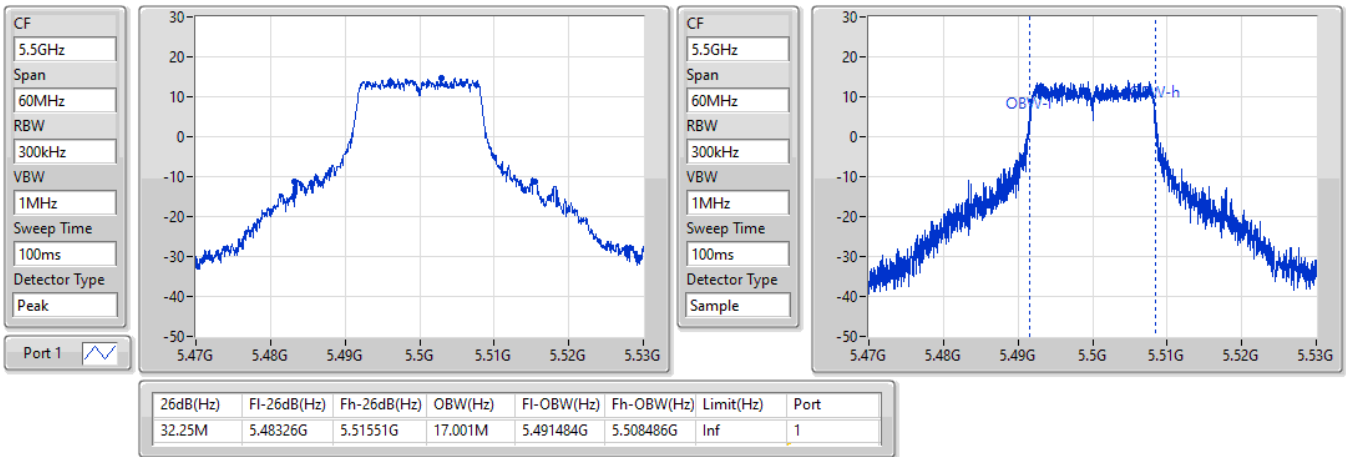


802.11a_Nss1,(6Mbps)_1TX

EBW

5500MHz

21/06/2021

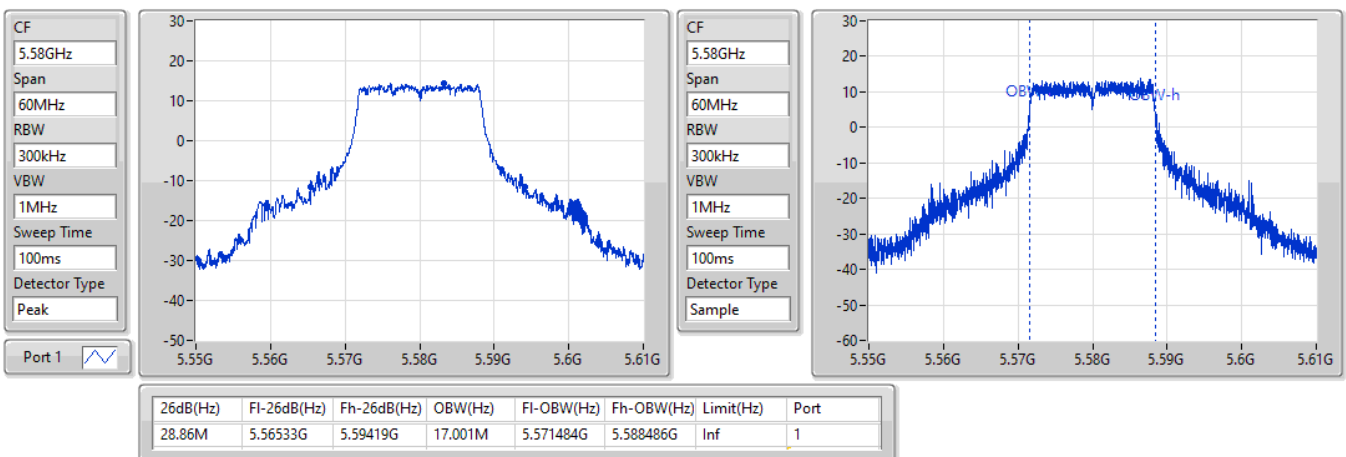


802.11a_Nss1,(6Mbps)_1TX

EBW

5580MHz

21/06/2021

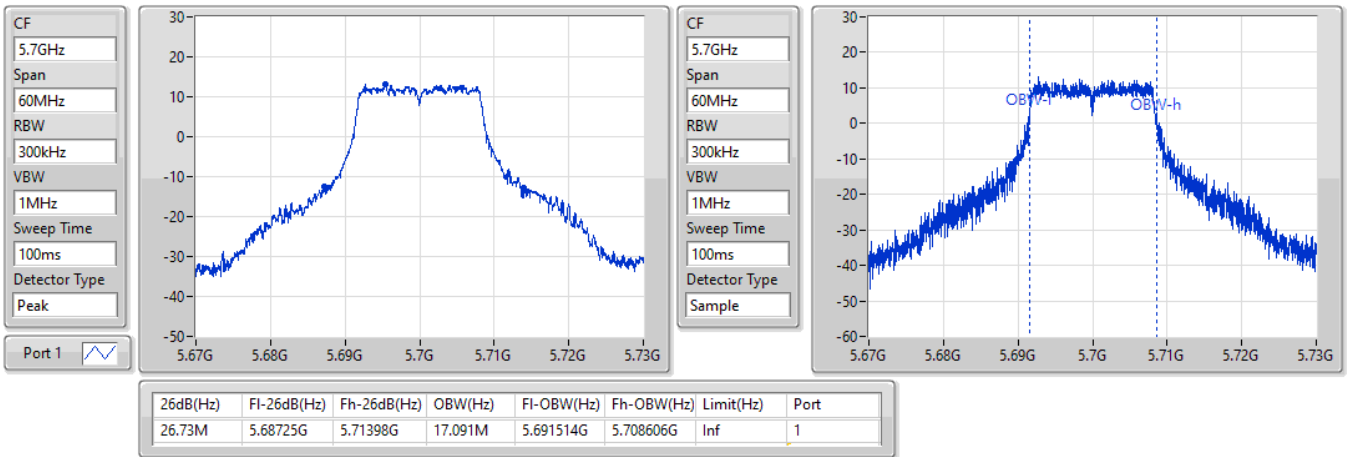


802.11a_Nss1,(6Mbps)_1TX

EBW

5700MHz

21/06/2021

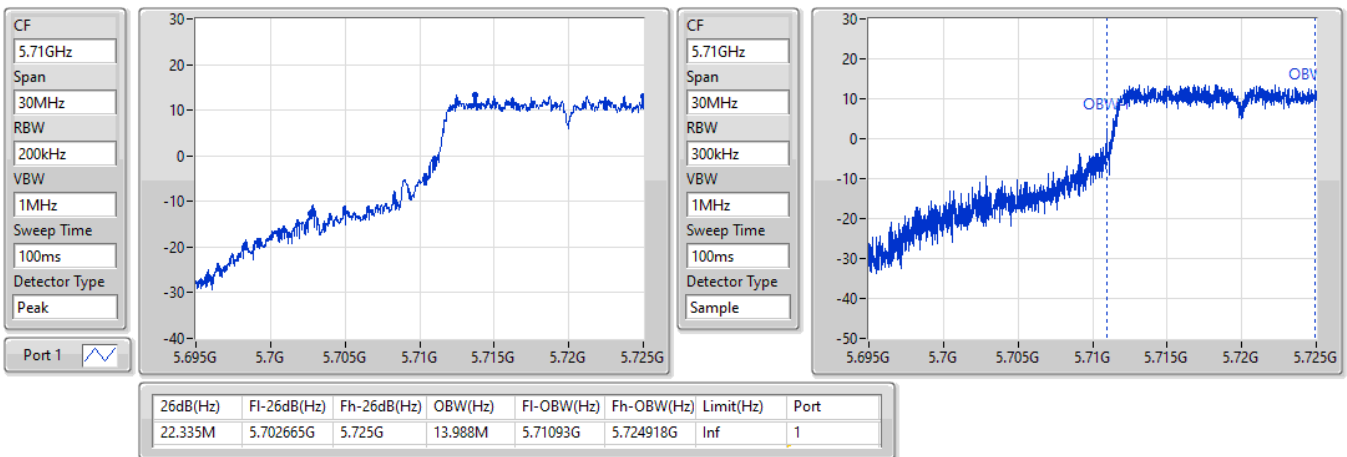


802.11a_Nss1,(6Mbps)_1TX

EBW

5720MHz Straddle 5.47-5.725GHz

21/06/2021

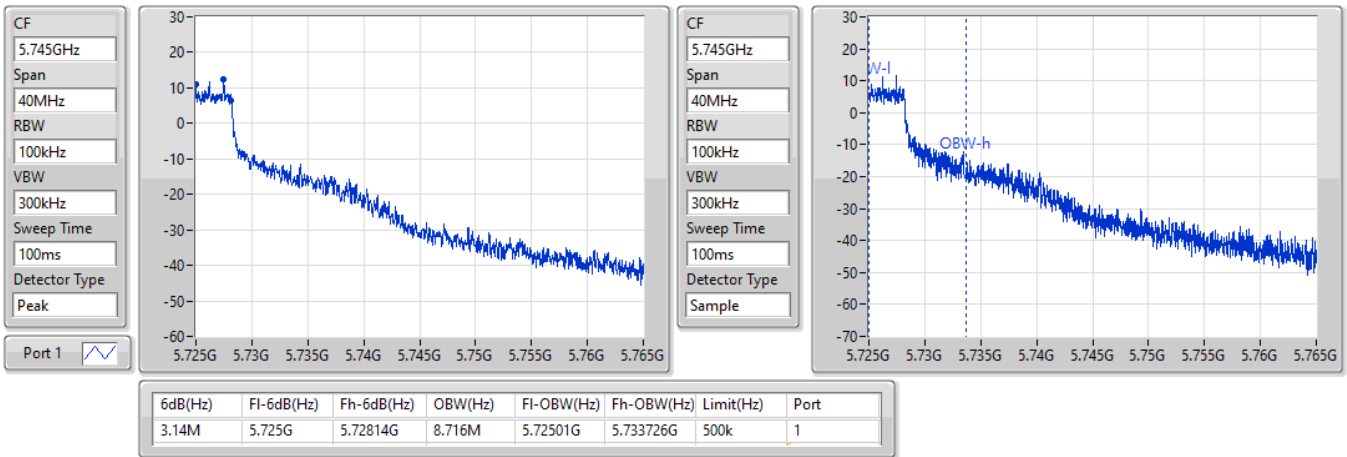


802.11a_Nss1,(6Mbps)_1TX

EBW

5720MHz Straddle 5.725-5.85GHz

21/06/2021

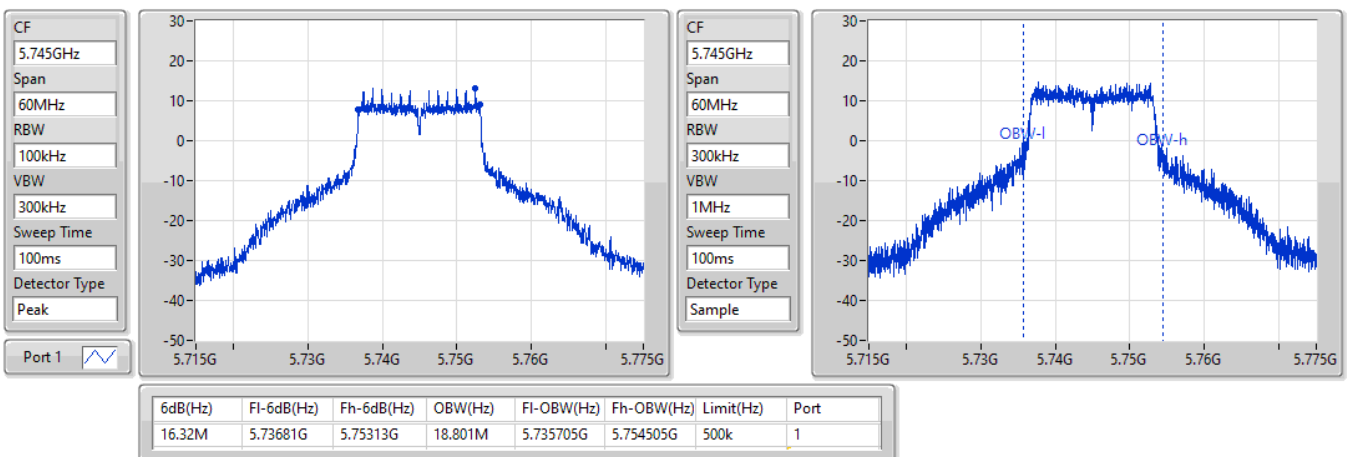


802.11a_Nss1,(6Mbps)_1TX

EBW

5745MHz

21/06/2021

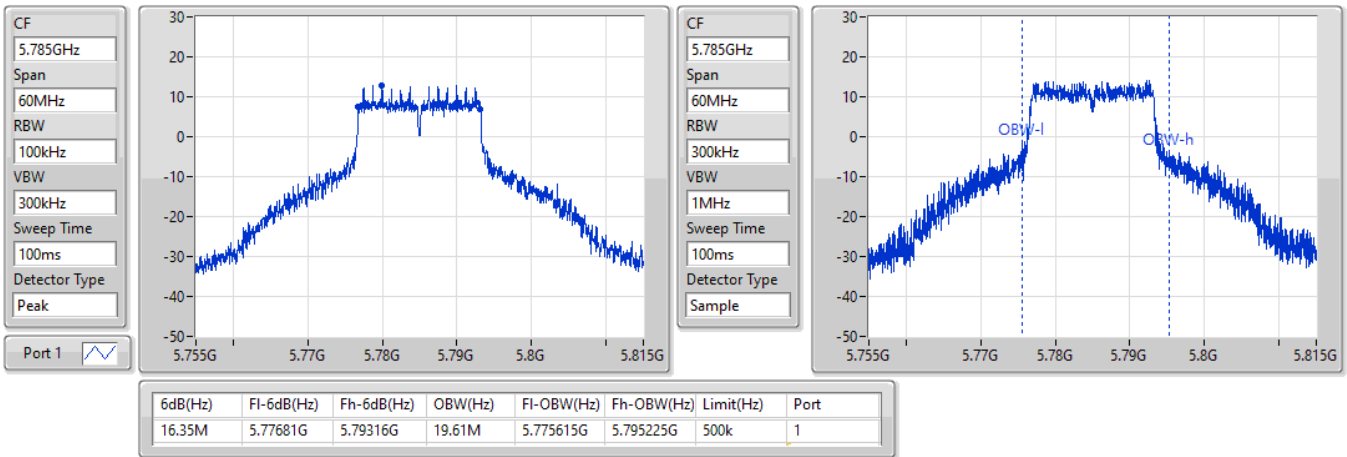


802.11a_Nss1,(6Mbps)_1TX

EBW

5785MHz

21/06/2021

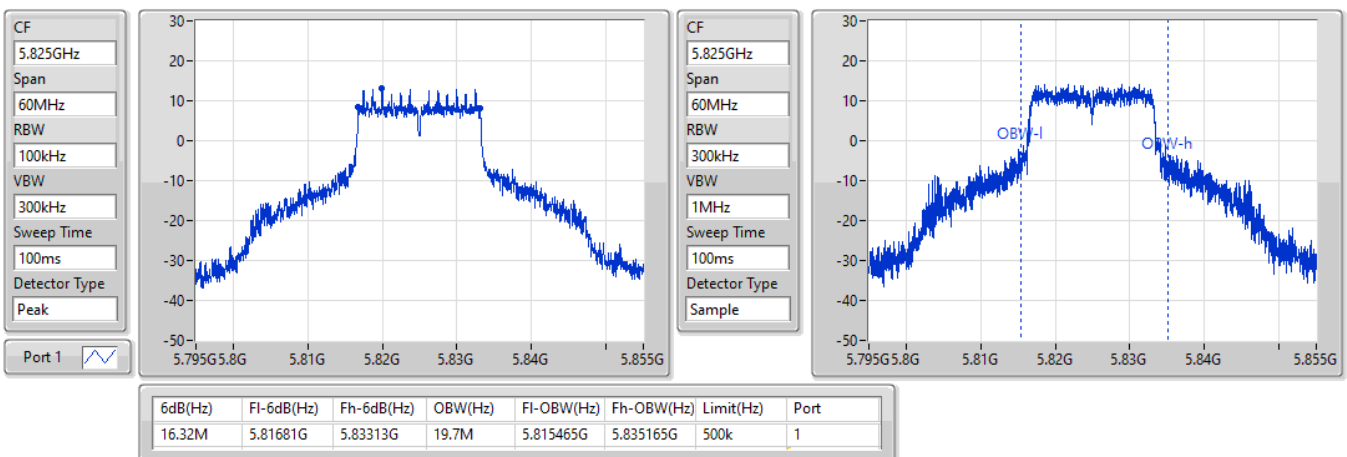


802.11a_Nss1,(6Mbps)_1TX

EBW

5825MHz

21/06/2021

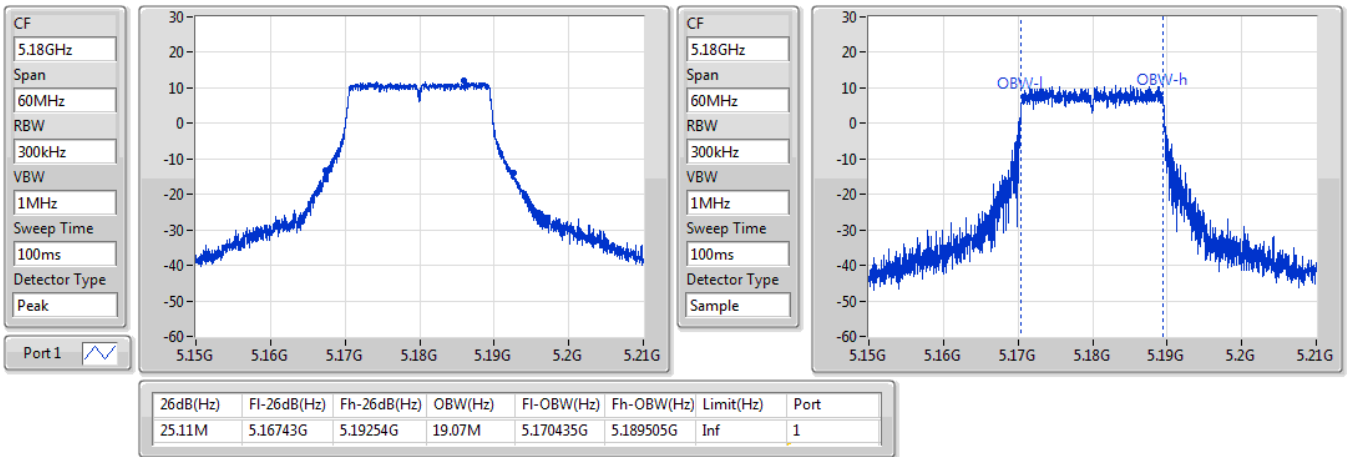


802.11ax HEW20_Nss1,(MCS0)_1TX

EBW

5180MHz

16/07/2021

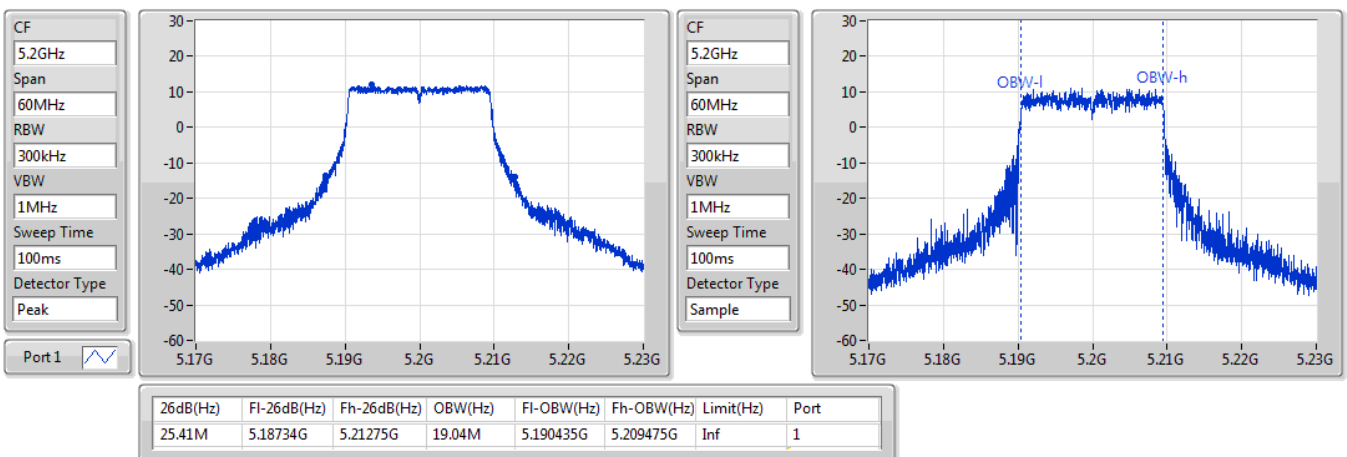


802.11ax HEW20_Nss1,(MCS0)_1TX

EBW

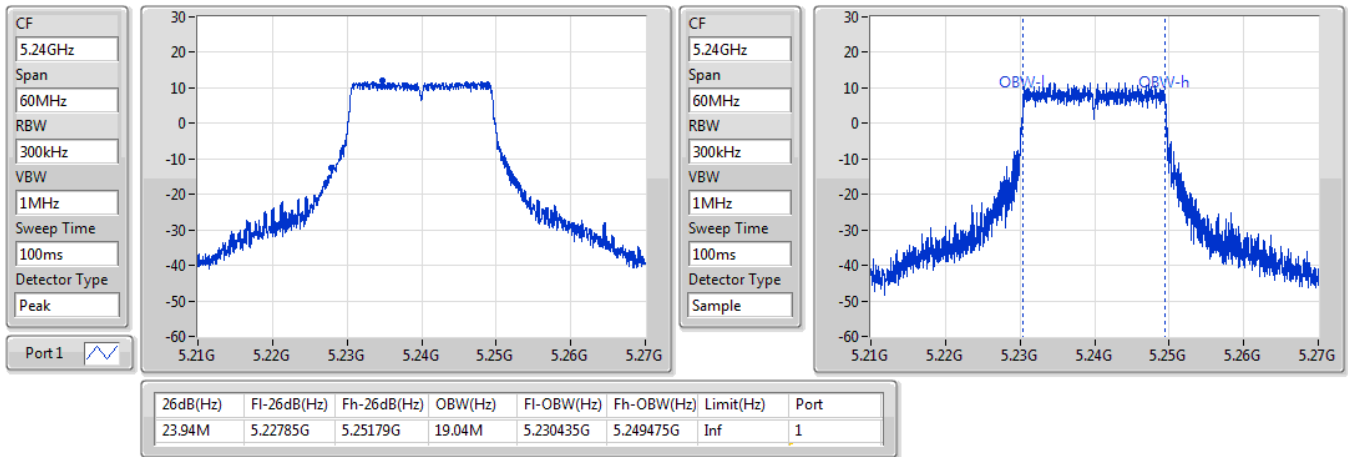
5200MHz

16/07/2021

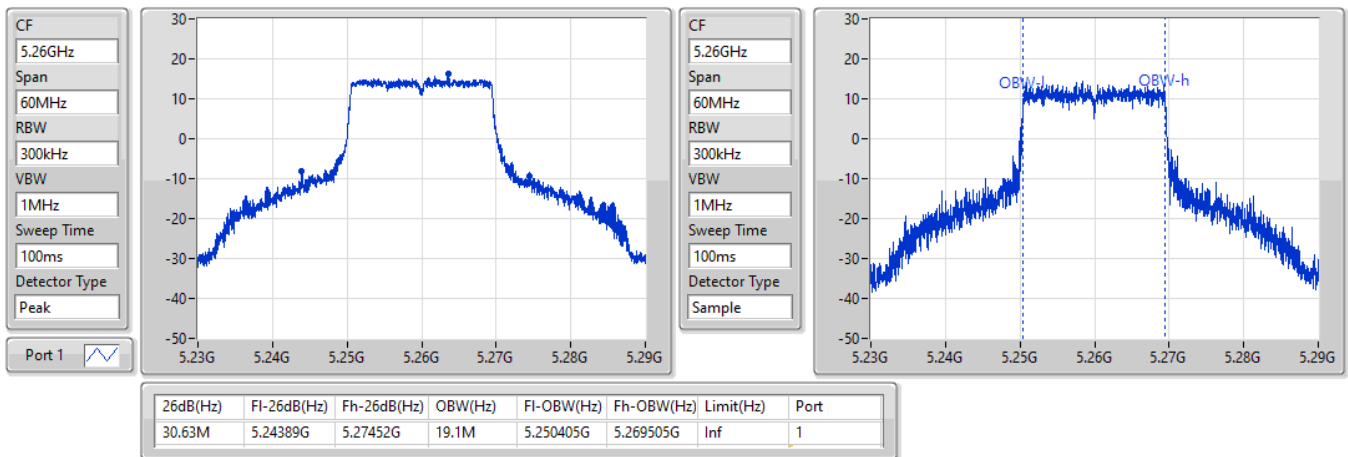


802.11ax HEW20_Nss1,(MCS0)_1TX
EBW
5240MHz

16/07/2021

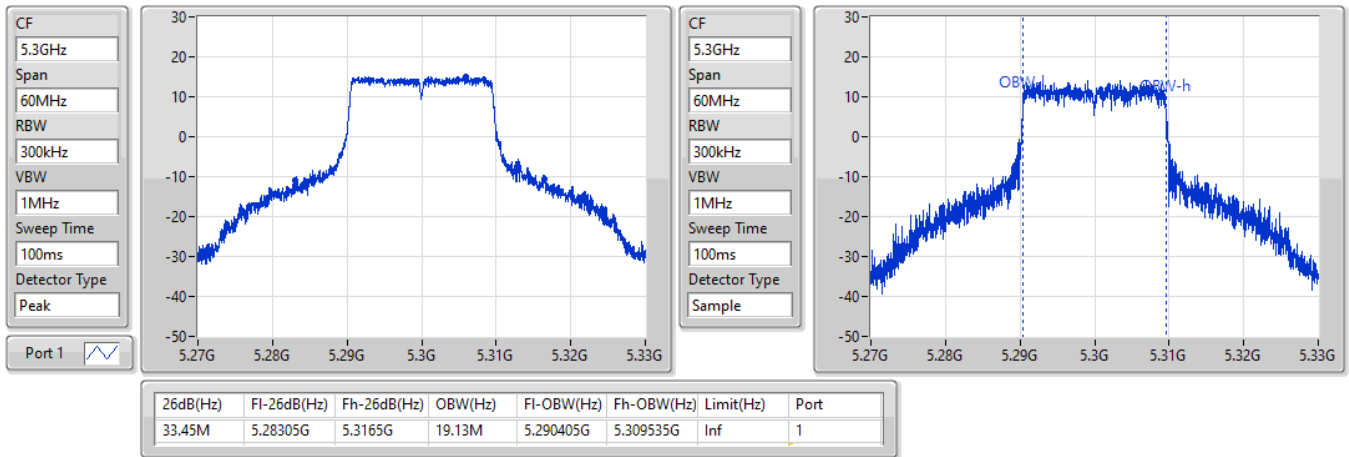

802.11ax HEW20_Nss1,(MCS0)_1TX
EBW
5260MHz

21/06/2021

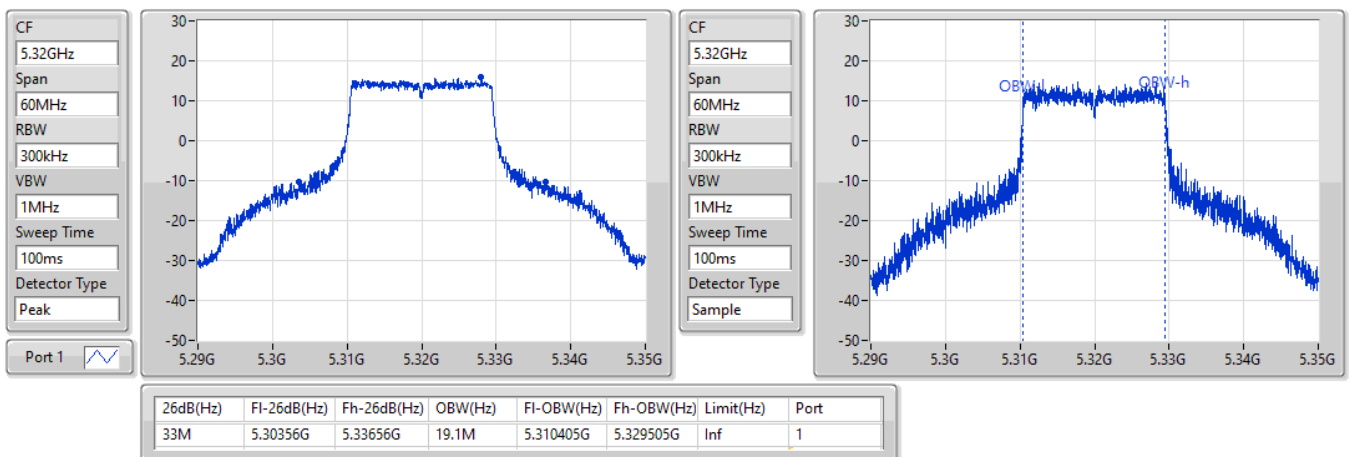


802.11ax HEW20_Nss1,(MCS0)_1TX
EBW
5300MHz

21/06/2021

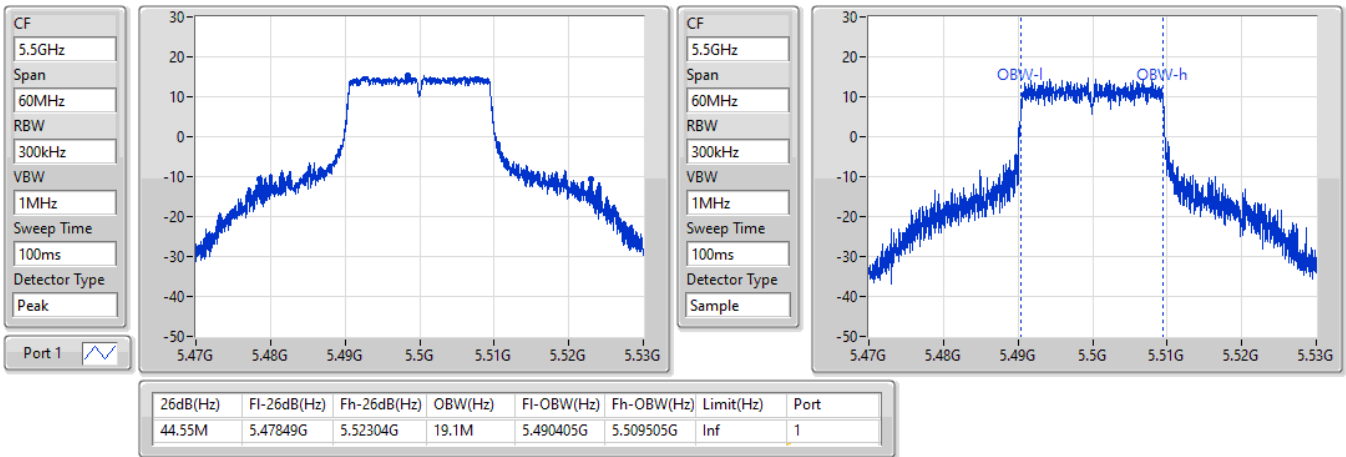

802.11ax HEW20_Nss1,(MCS0)_1TX
EBW
5320MHz

21/06/2021

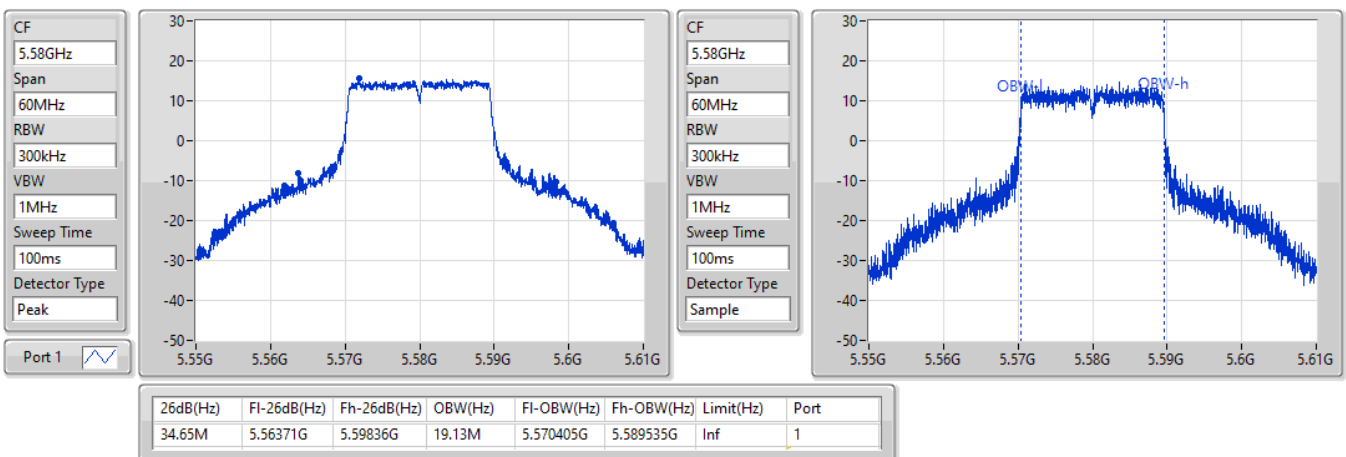


802.11ax HEW20_Nss1,(MCS0)_1TX
EBW
5500MHz

21/06/2021

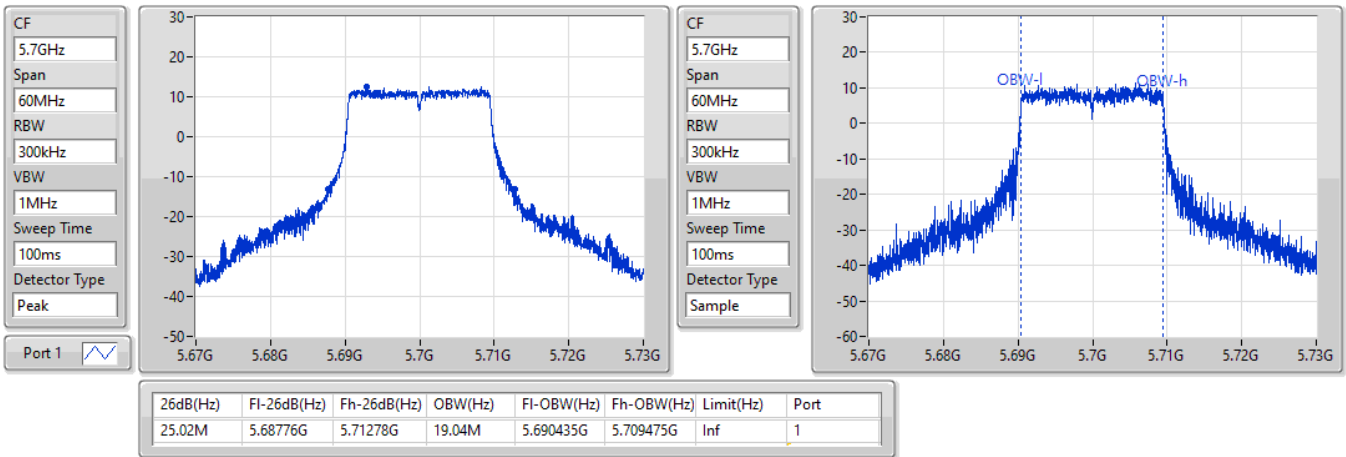

802.11ax HEW20_Nss1,(MCS0)_1TX
EBW
5580MHz

21/06/2021

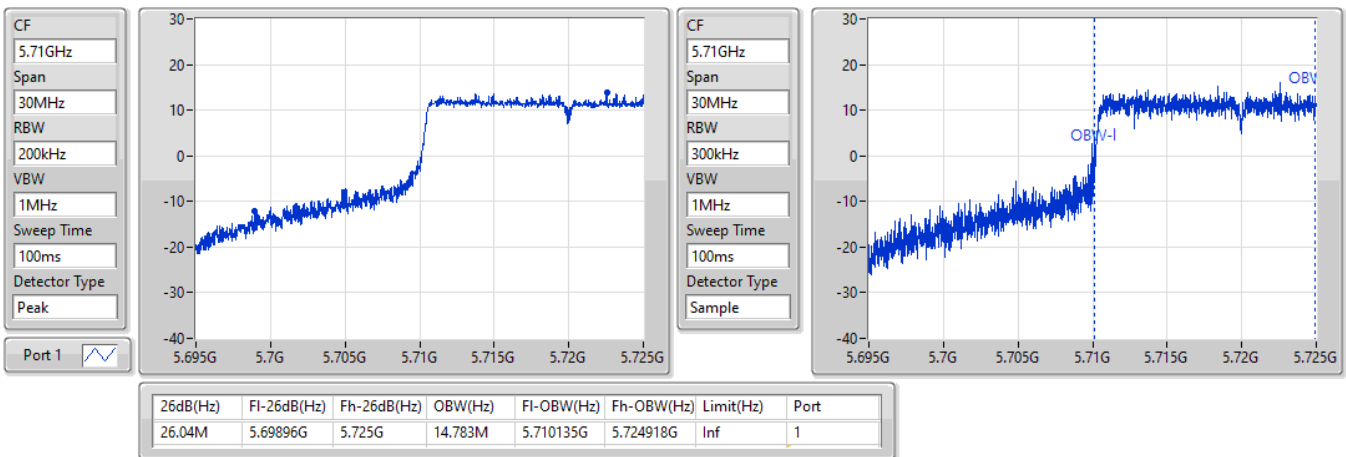


802.11ax HEW20_Nss1,(MCS0)_1TX
EBW
5700MHz

21/06/2021

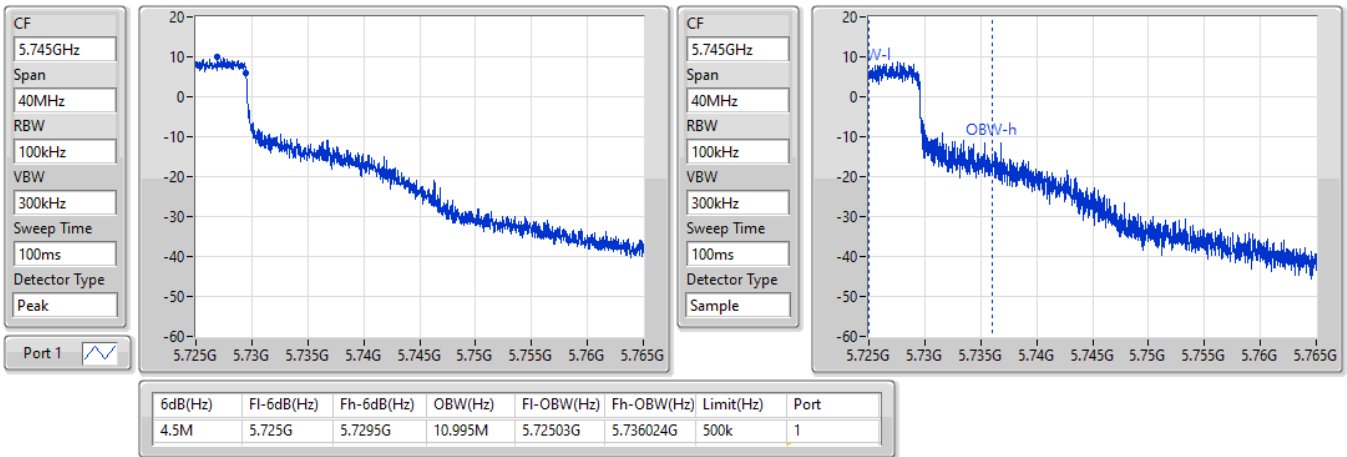

802.11ax HEW20_Nss1,(MCS0)_1TX
EBW
5720MHz Straddle 5.67-5.725GHz

21/06/2021

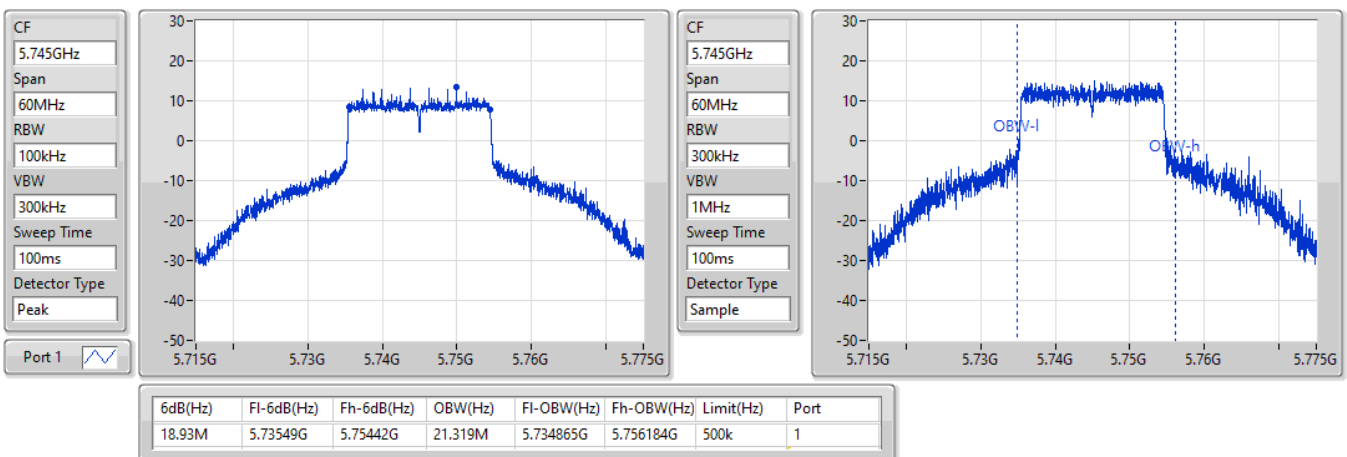


802.11ax HEW20_Nss1,(MCS0)_1TX
EBW
5720MHz Straddle 5.725-5.85GHz

21/06/2021


802.11ax HEW20_Nss1,(MCS0)_1TX
EBW
5745MHz

21/06/2021

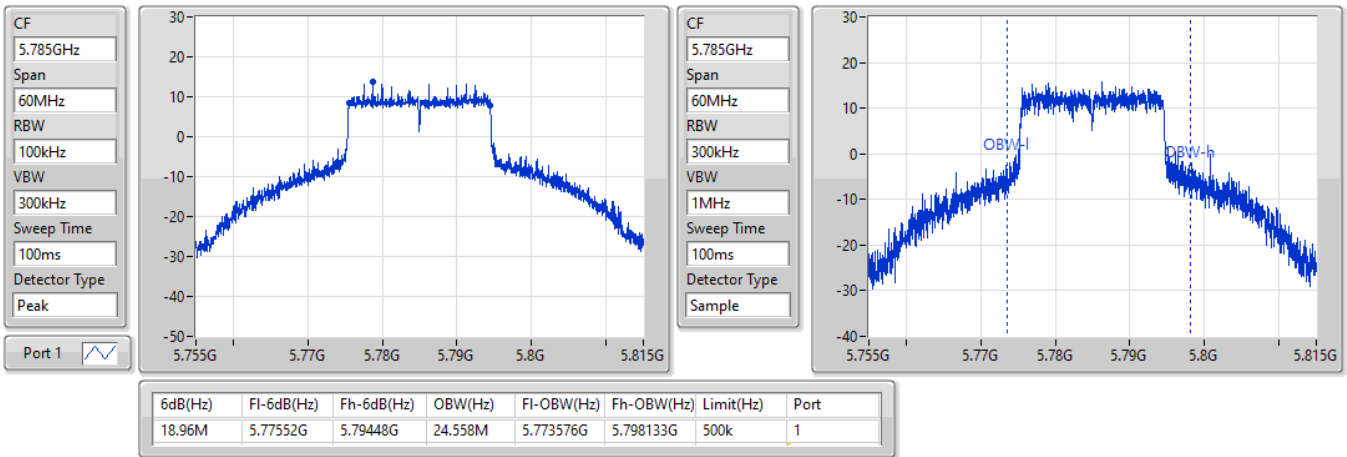


802.11ax HEW20_Nss1,(MCS0)_1TX

EBW

5785MHz

21/06/2021

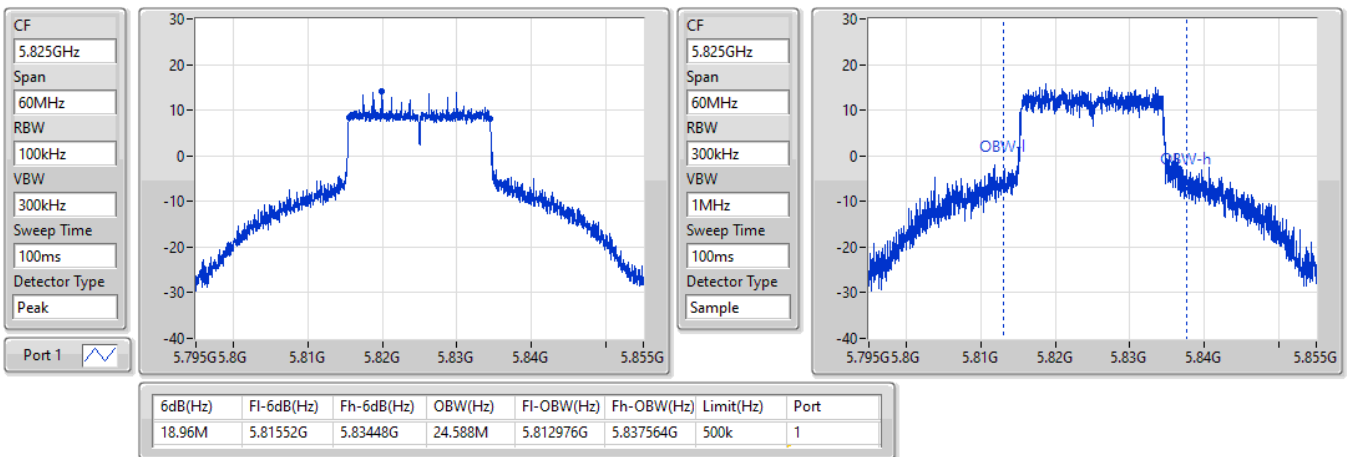


802.11ax HEW20_Nss1,(MCS0)_1TX

EBW

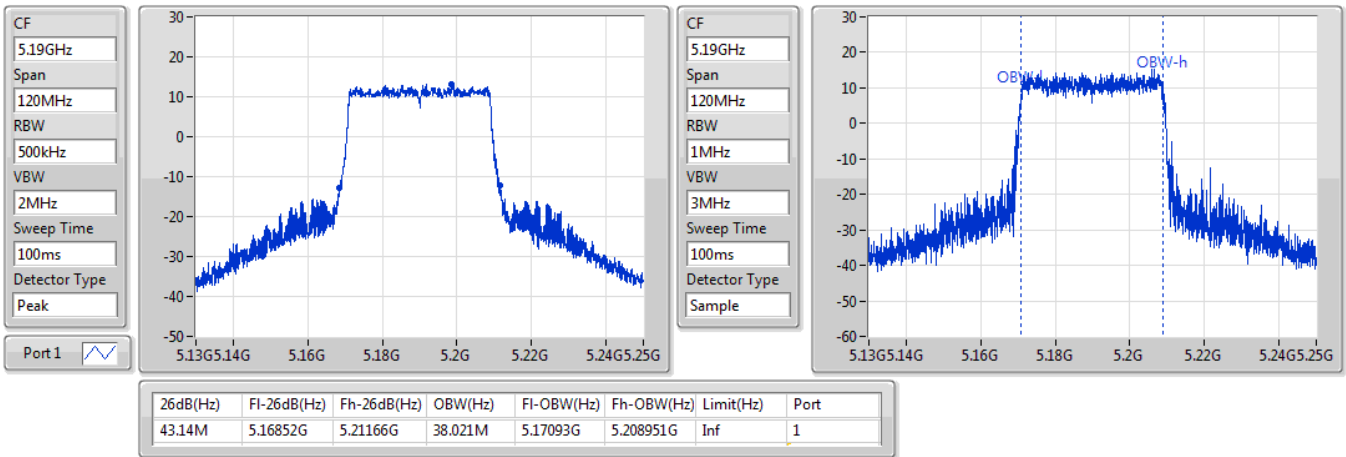
5825MHz

21/06/2021

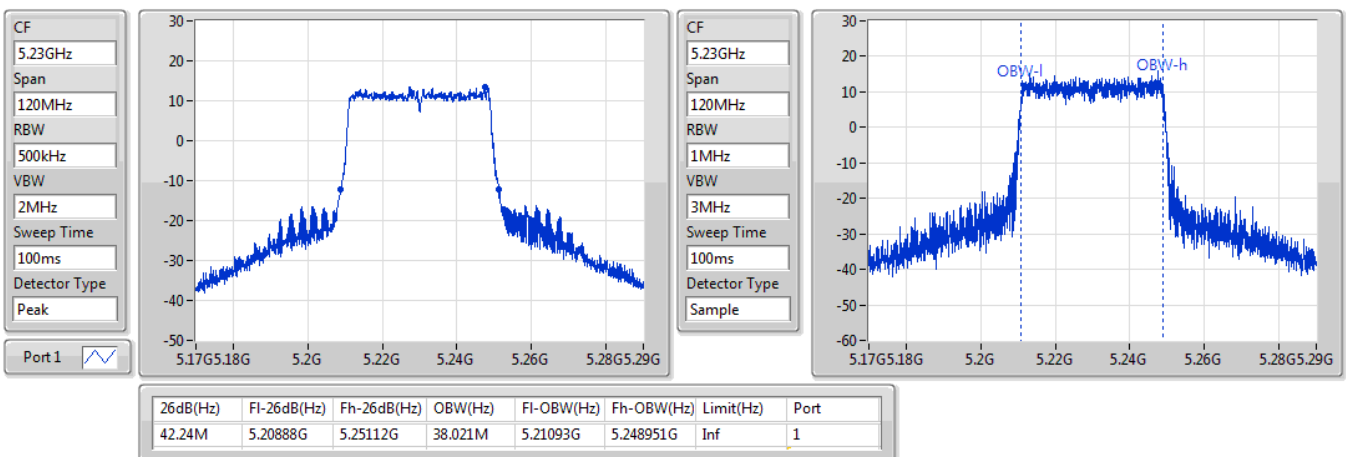


802.11ax HEW40_Nss1,(MCS0)_1TX
EBW
5190MHz

16/07/2021


802.11ax HEW40_Nss1,(MCS0)_1TX
EBW
5230MHz

16/07/2021

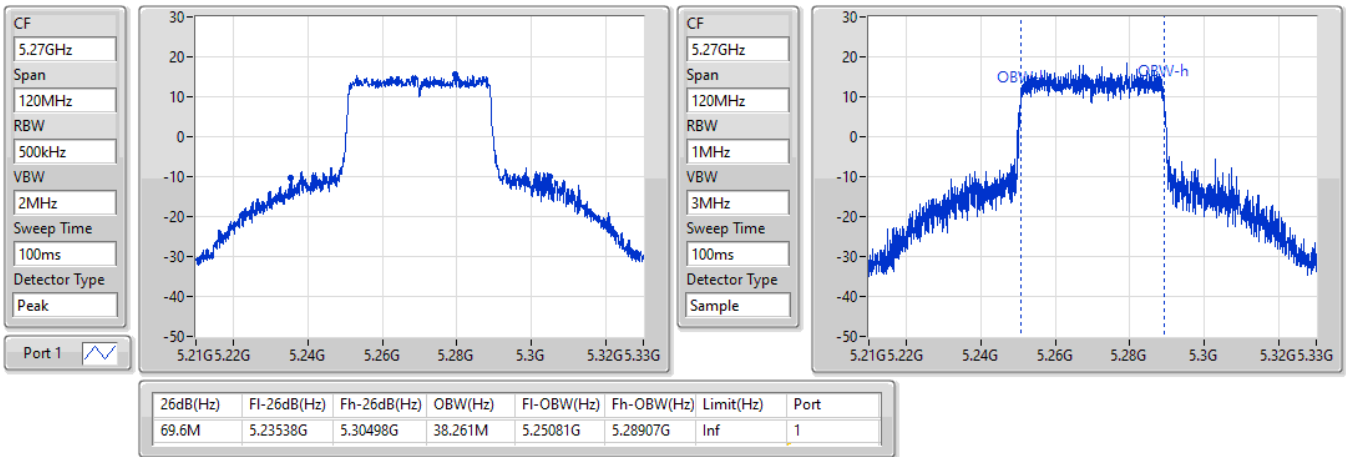


802.11ax HEW40_Nss1,(MCS0)_1TX

EBW

5270MHz

21/06/2021

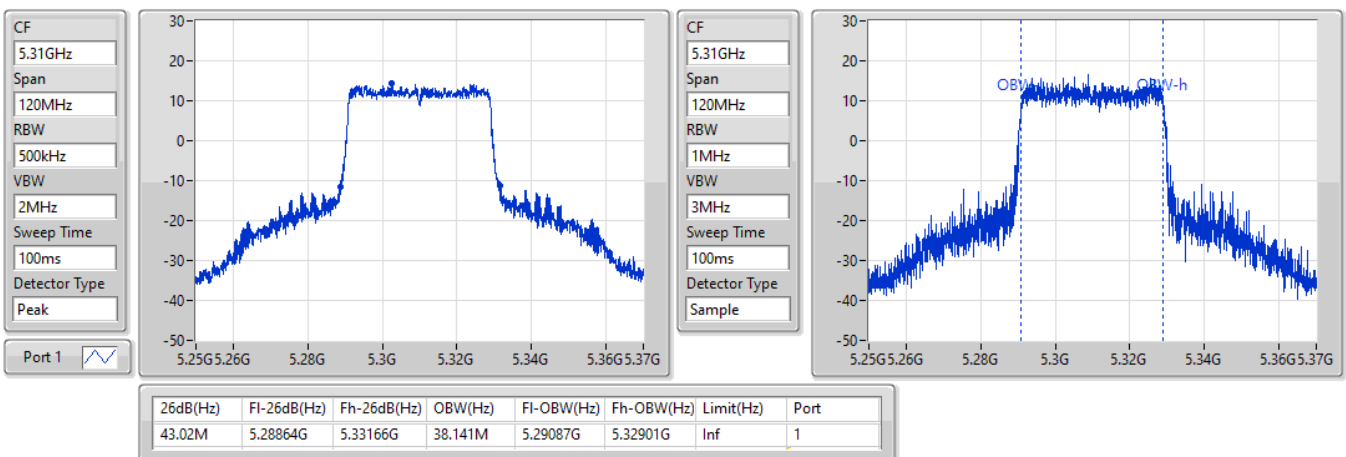


802.11ax HEW40_Nss1,(MCS0)_1TX

EBW

5310MHz

21/06/2021

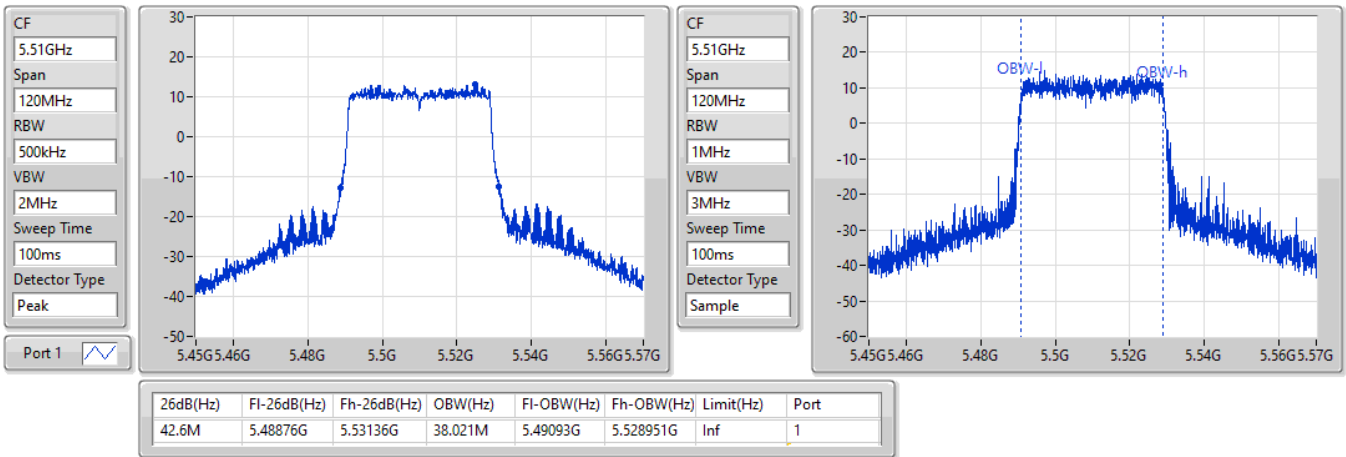


802.11ax HEW40_Nss1,(MCS0)_1TX

EBW

5510MHz

21/06/2021

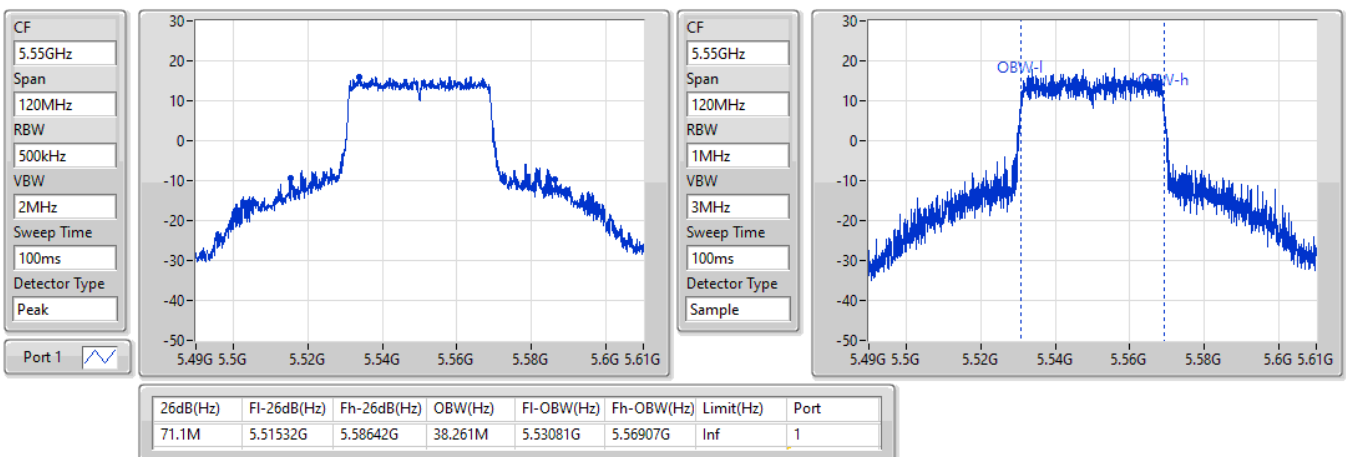


802.11ax HEW40_Nss1,(MCS0)_1TX

EBW

5550MHz

21/06/2021

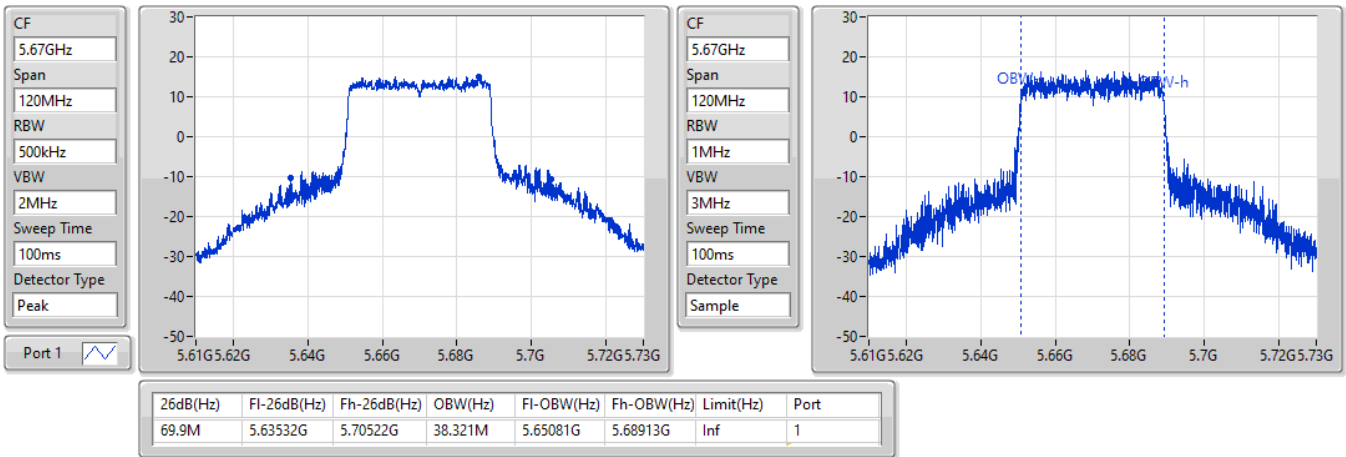


802.11ax HEW40_Nss1,(MCS0)_1TX

EBW

5670MHz

21/06/2021

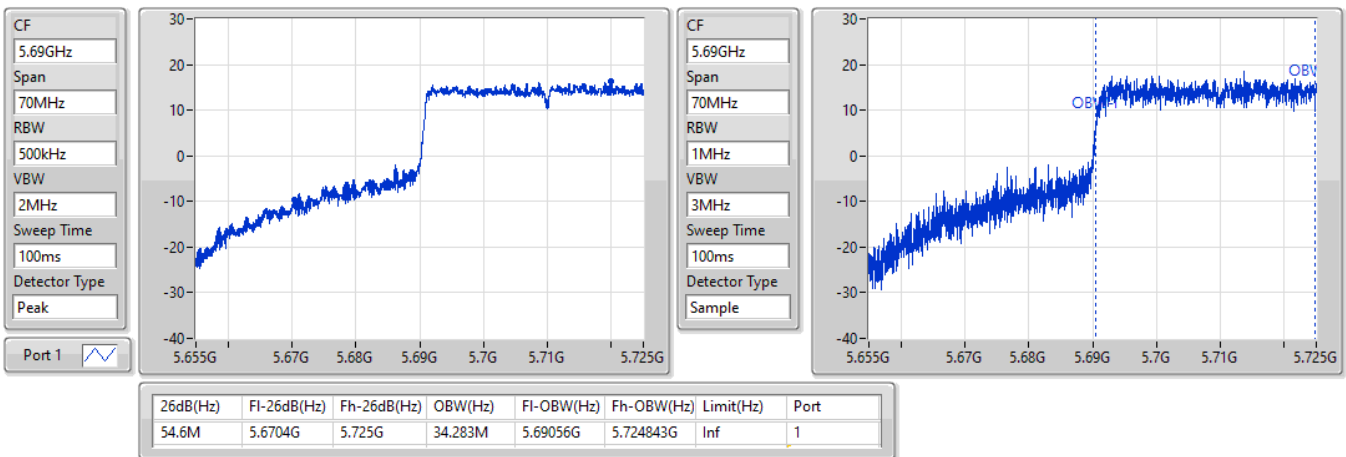


802.11ax HEW40_Nss1,(MCS0)_1TX

EBW

5710MHz Straddle 5.47-5.725GHz

21/06/2021

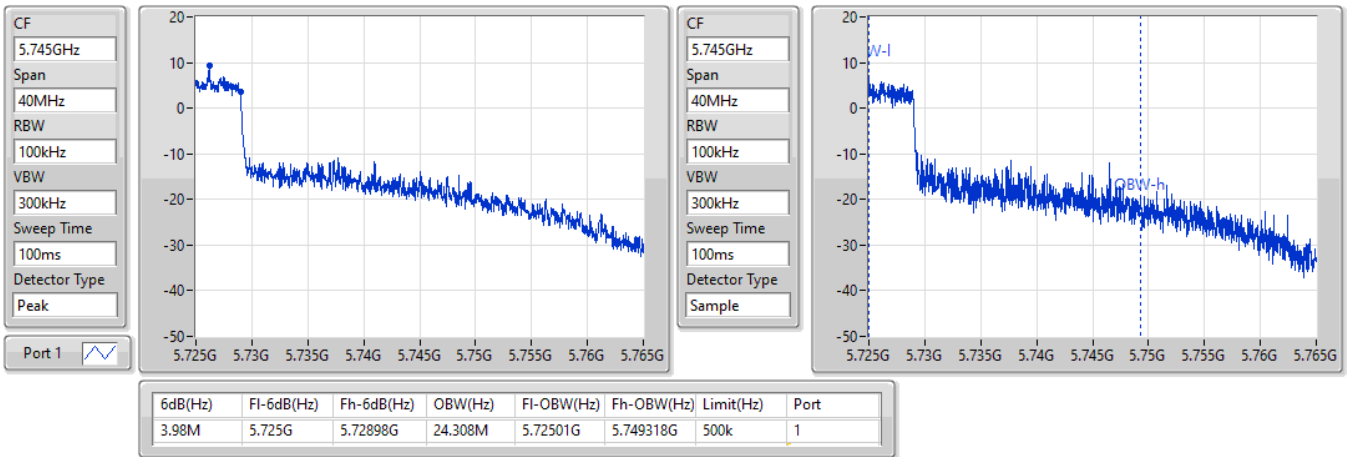


802.11ax HEW40_Nss1,(MCS0)_1TX

EBW

5710MHz Straddle 5.725-5.85GHz

21/06/2021

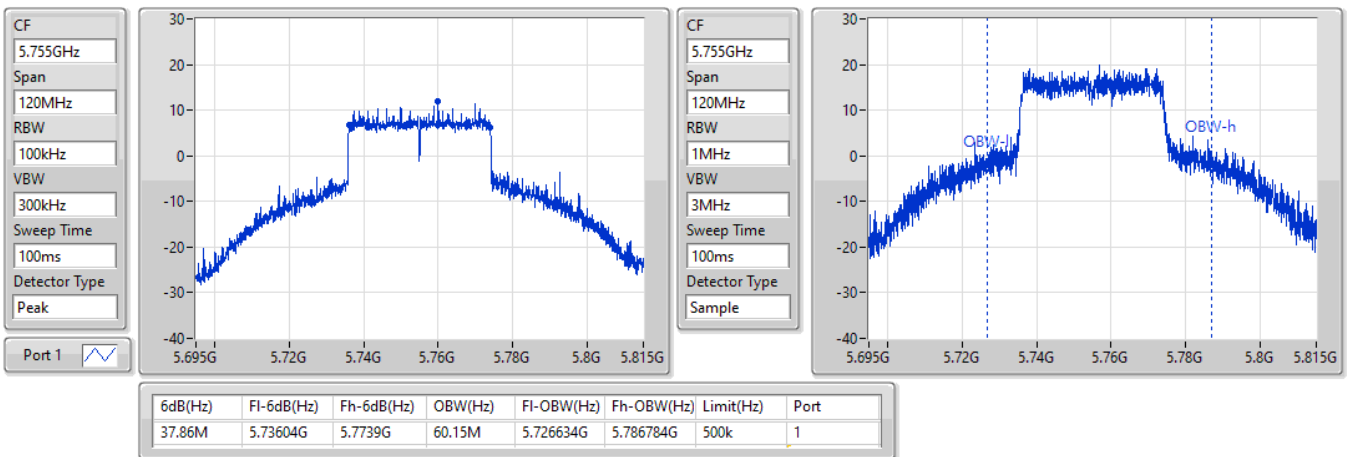


802.11ax HEW40_Nss1,(MCS0)_1TX

EBW

5755MHz

21/06/2021

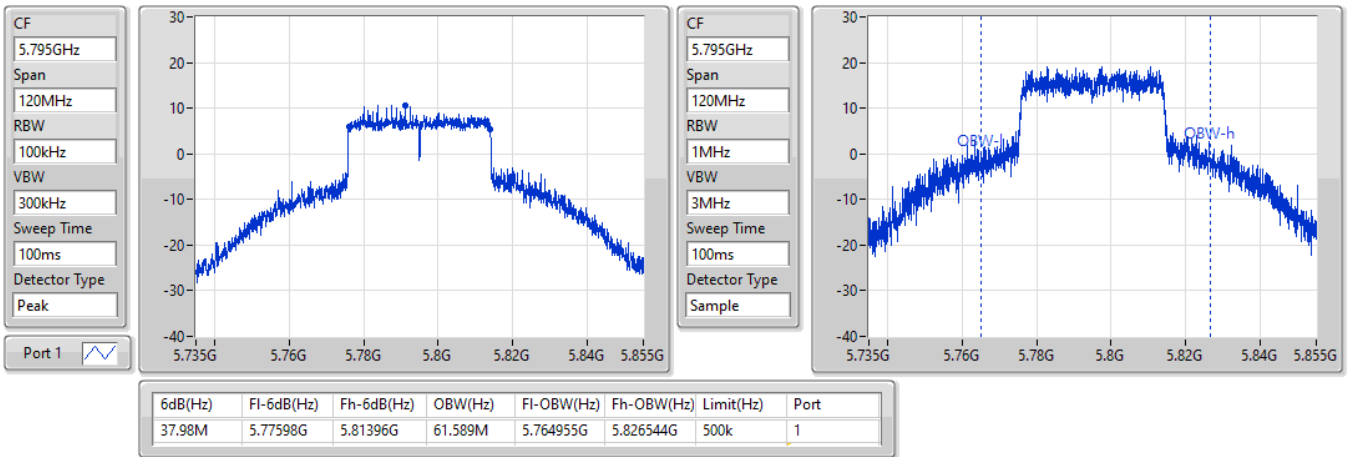


802.11ax HEW40_Nss1,(MCS0)_1TX

EBW

5795MHz

21/06/2021

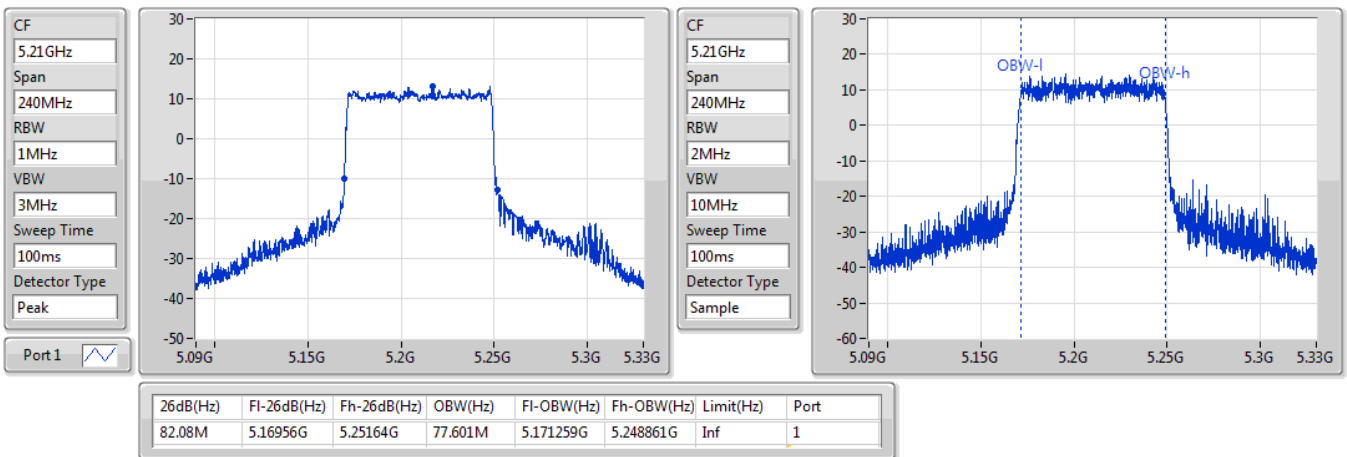


802.11ax HEW80_Nss1,(MCS0)_1TX

EBW

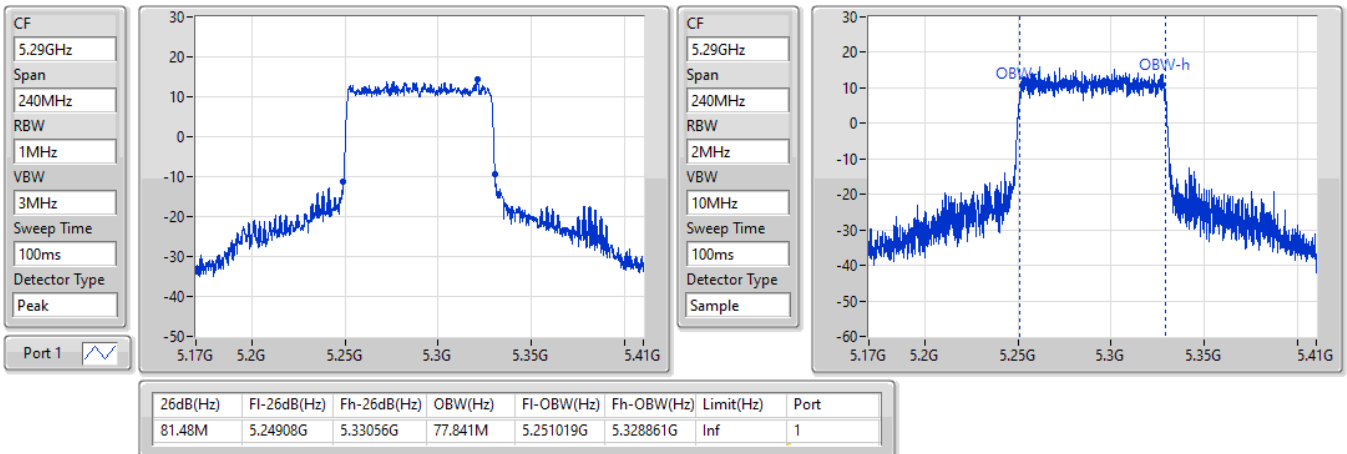
5210MHz

16/07/2021

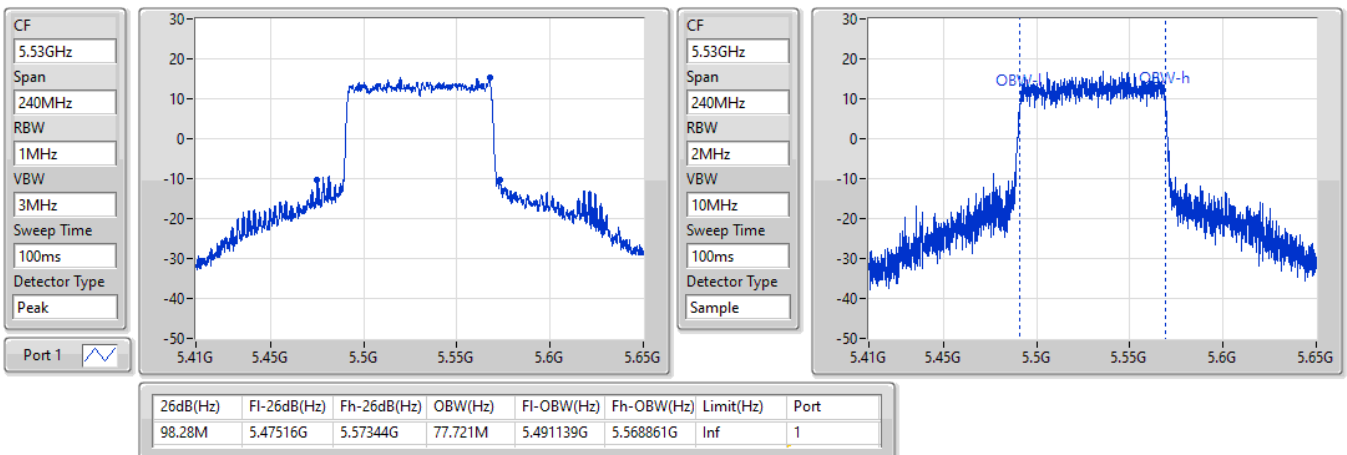


802.11ax HEW80_Nss1,(MCS0)_1TX
EBW
5290MHz

21/06/2021


802.11ax HEW80_Nss1,(MCS0)_1TX
EBW
5530MHz

21/06/2021

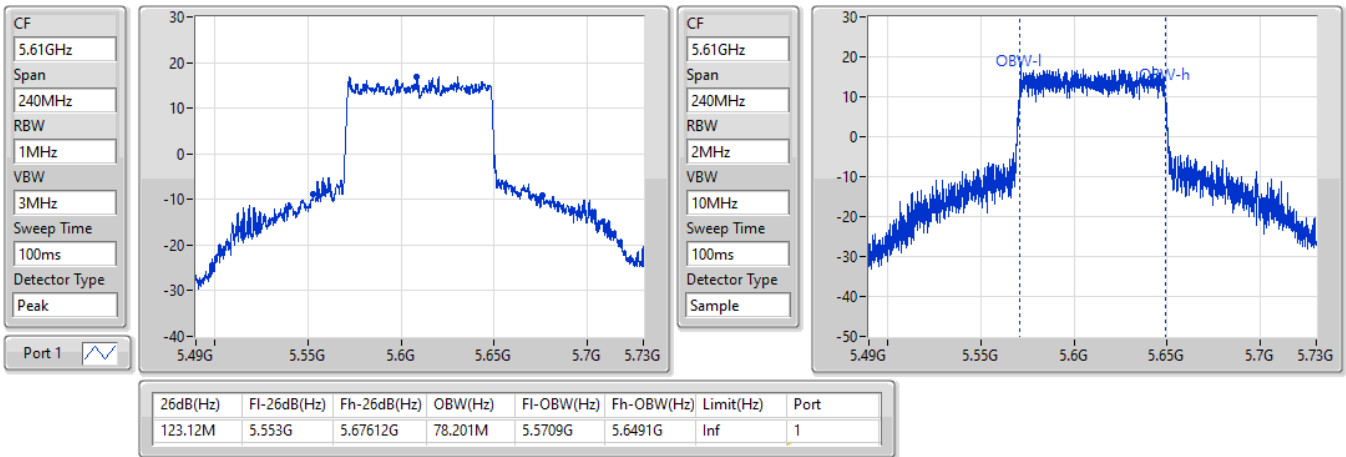


802.11ax HEW80_Nss1,(MCS0)_1TX

EBW

5610MHz

21/06/2021

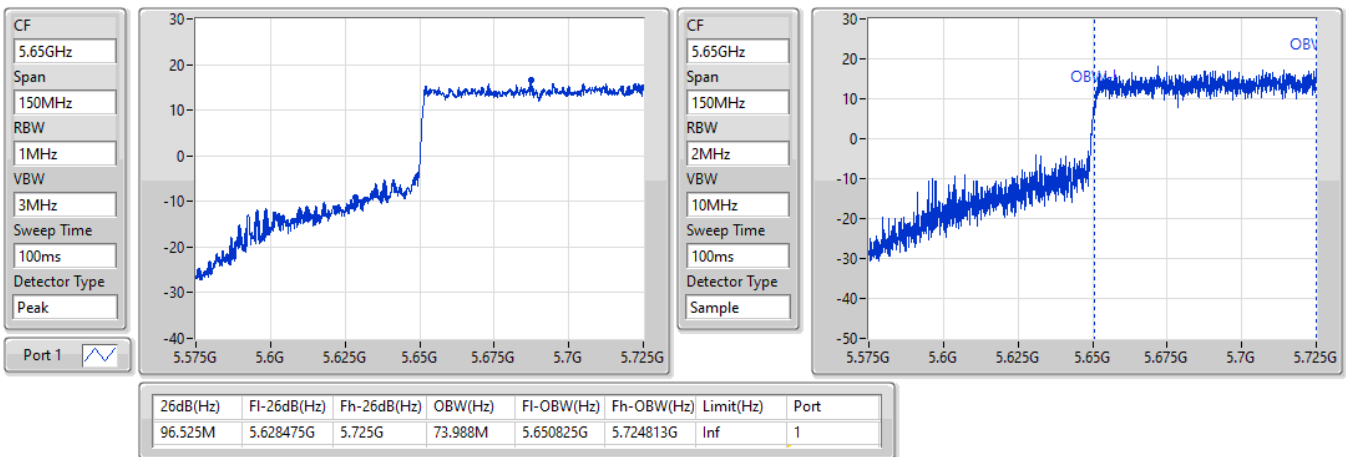


802.11ax HEW80_Nss1,(MCS0)_1TX

EBW

5690MHz Straddle 5.47-5.725GHz

21/06/2021

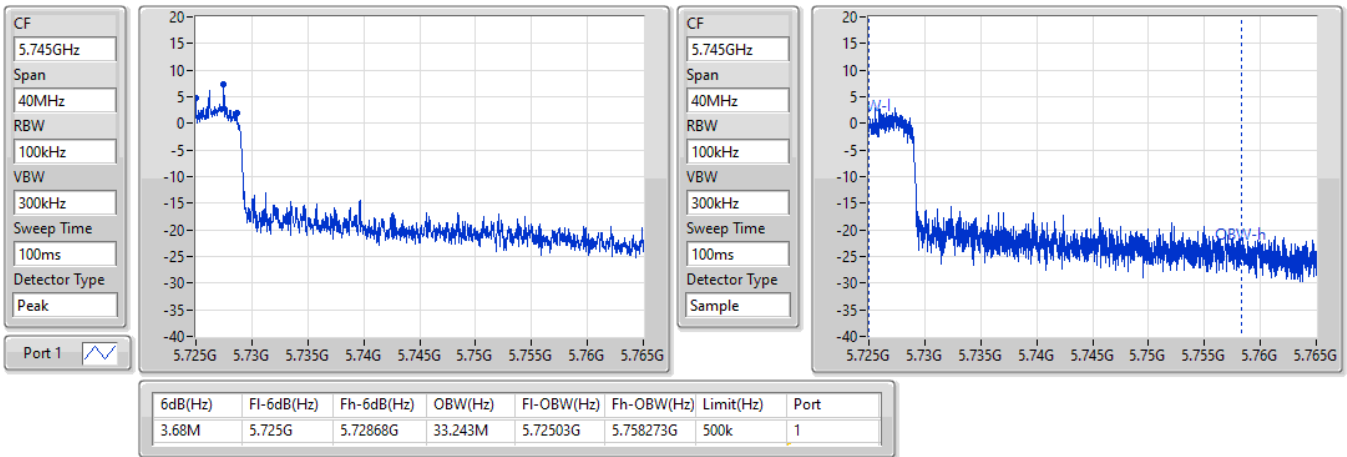


802.11ax HEW80_Nss1,(MCS0)_1TX

EBW

5690MHz Straddle 5.725-5.85GHz

21/06/2021

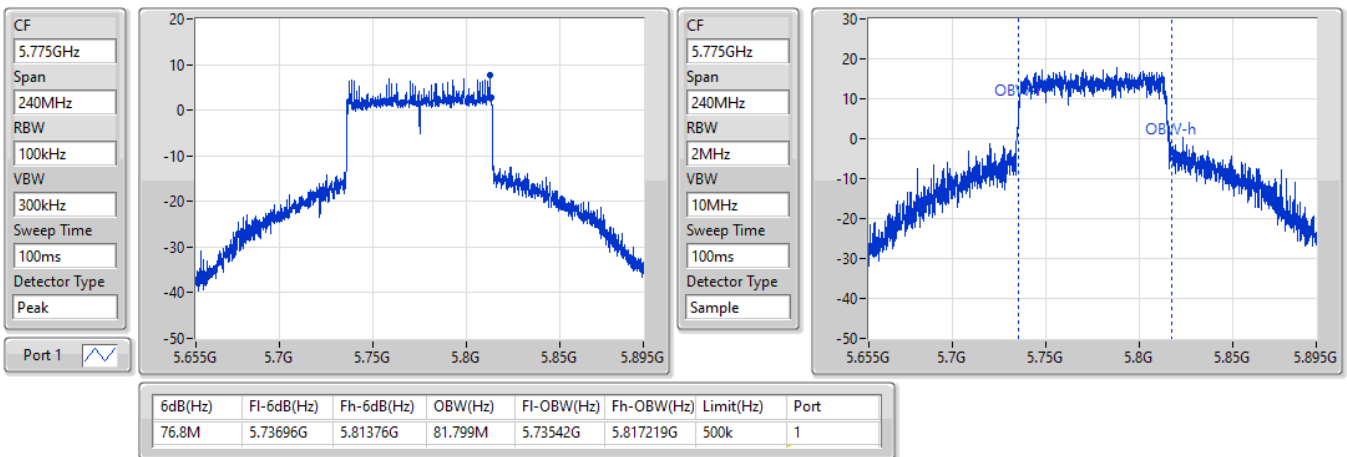


802.11ax HEW80_Nss1,(MCS0)_1TX

EBW

5775MHz

21/06/2021



Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.15-5.25GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	24.66M	16.912M	16M9D1D	22.92M	16.702M
802.11ax HEW20_Nss1,(MCS0)_4TX	25.65M	19.1M	19M1D1D	23.76M	18.981M
802.11ax HEW40_Nss1,(MCS0)_4TX	42.96M	38.081M	38M1D1D	42.36M	37.901M
802.11ax HEW80_Nss1,(MCS0)_4TX	84.72M	77.841M	77M8D1D	81.48M	77.361M
5.25-5.35GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	24.03M	16.912M	16M9D1D	23.13M	16.762M
802.11ax HEW20_Nss1,(MCS0)_4TX	25.05M	19.07M	19M1D1D	24M	19.01M
802.11ax HEW40_Nss1,(MCS0)_4TX	43.56M	38.081M	38M1D1D	42.18M	38.021M
802.11ax HEW80_Nss1,(MCS0)_4TX	81.96M	77.961M	78M0D1D	81.48M	77.601M
5.47-5.725GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	24.12M	16.912M	16M9D1D	15.964M	13.496M
802.11ax HEW20_Nss1,(MCS0)_4TX	24.72M	19.07M	19M1D1D	16.734M	14.54M
802.11ax HEW40_Nss1,(MCS0)_4TX	43.14M	38.141M	38M1D1D	36.18M	33.902M
802.11ax HEW80_Nss1,(MCS0)_4TX	82.2M	77.721M	77M7D1D	75.52M	73.418M
5.725-5.85GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	16.35M	22.219M	22M2D1D	3.135M	4.018M
802.11ax HEW20_Nss1,(MCS0)_4TX	18.99M	24.828M	24M8D1D	4.455M	4.573M
802.11ax HEW40_Nss1,(MCS0)_4TX	37.98M	45.997M	46M0D1D	3.96M	4.093M
802.11ax HEW80_Nss1,(MCS0)_4TX	77.16M	89.955M	90M0D1D	3.69M	4.048M

Max-N dB = Maximum 6dB down bandwidth for 5.725-5.85GHz band / Maximum 26dB down bandwidth for other band;
 Max-OBW = Maximum 99% occupied bandwidth;
 Min-N dB = Minimum 6dB down bandwidth for 5.725-5.85GHz band / Maximum 26dB down bandwidth for other band;
 Min-OBW = Minimum 99% occupied bandwidth

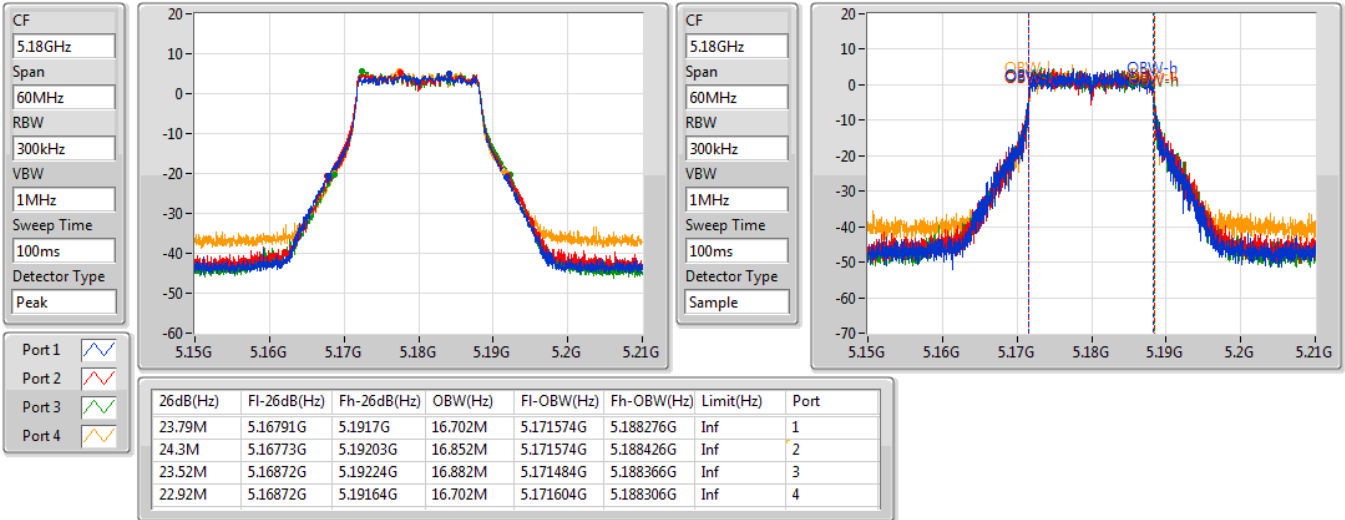
Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)	Port 3-N dB (Hz)	Port 3-OBW (Hz)	Port 4-N dB (Hz)	Port 4-OBW (Hz)
802.11a_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	Inf	23.79M	16.702M	24.3M	16.852M	23.52M	16.882M	22.92M	16.702M
5200MHz	Pass	Inf	24.66M	16.792M	23.52M	16.822M	24.15M	16.882M	23.01M	16.762M
5240MHz	Pass	Inf	23.85M	16.822M	23.37M	16.852M	23.82M	16.912M	23.58M	16.732M
5260MHz	Pass	Inf	23.49M	16.792M	23.79M	16.912M	23.76M	16.822M	24.03M	16.882M
5300MHz	Pass	Inf	23.28M	16.792M	23.88M	16.792M	23.61M	16.762M	23.55M	16.792M
5320MHz	Pass	Inf	23.13M	16.822M	23.28M	16.852M	23.88M	16.822M	23.25M	16.792M
5500MHz	Pass	Inf	23.31M	16.792M	23.7M	16.822M	24.12M	16.912M	23.55M	16.822M
5580MHz	Pass	Inf	23.43M	16.702M	23.73M	16.762M	23.43M	16.822M	22.83M	16.672M
5700MHz	Pass	Inf	23.16M	16.762M	23.67M	16.852M	23.55M	16.792M	23.52M	16.822M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	15.964M	13.496M	16.225M	13.496M	16.473M	13.564M	16.486M	13.551M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	3.135M	4.093M	3.15M	4.138M	3.15M	4.018M	3.135M	4.183M
5745MHz	Pass	500k	16.29M	17.241M	16.32M	19.13M	16.32M	17.121M	16.29M	22.219M
5785MHz	Pass	500k	16.29M	20.45M	16.29M	17.061M	16.29M	17.931M	16.32M	17.121M
5825MHz	Pass	500k	16.35M	18.171M	16.32M	18.891M	16.32M	16.972M	16.32M	21.349M
802.11ax HEW20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	Inf	24.87M	19.01M	24.66M	19.01M	24.66M	19.04M	24.87M	18.981M
5200MHz	Pass	Inf	24.12M	19.04M	24.39M	19.01M	24.39M	19.04M	24.66M	19.01M
5240MHz	Pass	Inf	23.76M	19.04M	25.65M	19.07M	24M	19.04M	25.05M	19.1M
5260MHz	Pass	Inf	24.72M	19.04M	25.02M	19.04M	24.48M	19.04M	25.05M	19.07M
5300MHz	Pass	Inf	24.66M	19.04M	24.99M	19.04M	24.87M	19.01M	24.72M	19.07M
5320MHz	Pass	Inf	24.09M	19.01M	24M	19.01M	24.3M	19.04M	24.09M	19.04M
5500MHz	Pass	Inf	23.97M	19.04M	24.72M	19.07M	23.64M	19.04M	24.69M	19.04M
5580MHz	Pass	Inf	24.57M	19.04M	24.03M	19.04M	24.51M	19.04M	24.09M	19.01M
5700MHz	Pass	Inf	24.42M	19.04M	24.48M	19.07M	24.63M	19.04M	24.66M	19.04M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	17.009M	14.54M	16.734M	14.581M	17.105M	14.54M	16.83M	14.554M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	4.455M	4.588M	4.455M	4.573M	4.47M	4.603M	4.485M	4.573M
5745MHz	Pass	500k	18.99M	19.22M	18.75M	19.91M	18.93M	19.16M	18.78M	23.508M
5785MHz	Pass	500k	18.99M	19.28M	18.66M	20.45M	18.9M	19.1M	18.93M	24.828M
5825MHz	Pass	500k	18.96M	19.31M	18.75M	20.21M	18.99M	19.19M	18.9M	23.688M
802.11ax HEW40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	Inf	42.42M	38.081M	42.84M	37.961M	42.36M	38.021M	42.6M	37.901M
5230MHz	Pass	Inf	42.6M	38.081M	42.36M	37.961M	42.96M	38.021M	42.42M	38.021M
5270MHz	Pass	Inf	42.18M	38.021M	42.42M	38.081M	42.36M	38.081M	42.42M	38.021M
5310MHz	Pass	Inf	43.56M	38.021M	42.78M	38.081M	43.44M	38.081M	42.78M	38.081M
5510MHz	Pass	Inf	42.42M	38.081M	42.3M	37.961M	42.6M	38.021M	42.42M	38.021M
5550MHz	Pass	Inf	43.14M	38.021M	43.08M	37.961M	43.08M	38.141M	43.02M	38.021M
5670MHz	Pass	Inf	42.3M	37.961M	43.02M	38.081M	42.42M	38.021M	42.96M	38.081M
5710MHz Straddle 5.47-5.725GHz	Pass	Inf	36.18M	33.902M	36.518M	33.902M	36.248M	33.902M	36.585M	33.969M
5710MHz Straddle 5.725-5.85GHz	Pass	500k	3.99M	4.093M	3.96M	4.123M	3.99M	4.108M	3.99M	4.123M
5755MHz	Pass	500k	37.98M	38.621M	37.38M	39.34M	37.74M	38.441M	37.92M	44.678M
5795MHz	Pass	500k	37.44M	38.801M	36.96M	40.84M	37.86M	38.381M	37.8M	45.997M
802.11ax HEW80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	Inf	84.72M	77.841M	81.6M	77.481M	84.72M	77.721M	81.48M	77.361M
5290MHz	Pass	Inf	81.96M	77.841M	81.6M	77.601M	81.96M	77.961M	81.48M	77.601M
5530MHz	Pass	Inf	81.36M	77.721M	81.84M	77.481M	81.12M	77.481M	82.2M	77.601M
5610MHz	Pass	Inf	81.48M	77.601M	81M	77.361M	81.24M	77.601M	81M	77.721M
5690MHz Straddle 5.47-5.725GHz	Pass	Inf	75.52M	73.492M	75.815M	73.566M	75.668M	73.418M	75.815M	73.492M
5690MHz Straddle 5.725-5.85GHz	Pass	500k	3.735M	4.048M	3.69M	4.093M	3.735M	4.063M	3.72M	4.093M
5775MHz	Pass	500k	77.16M	78.921M	76.2M	79.88M	76.08M	78.201M	75.96M	89.955M

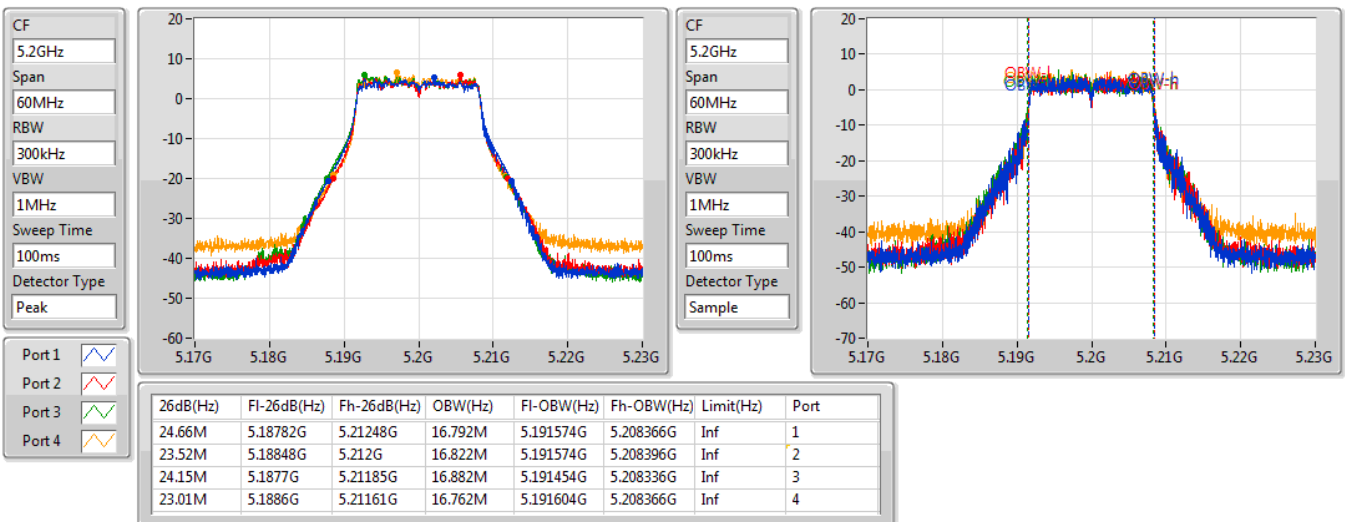
Port X-N dB = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band
Port X-OBW = Port X 99% occupied bandwidth

802.11a_Nss1,(6Mbps)_4TX
EBW
5180MHz

16/07/2021


802.11a_Nss1,(6Mbps)_4TX
EBW
5200MHz

16/07/2021

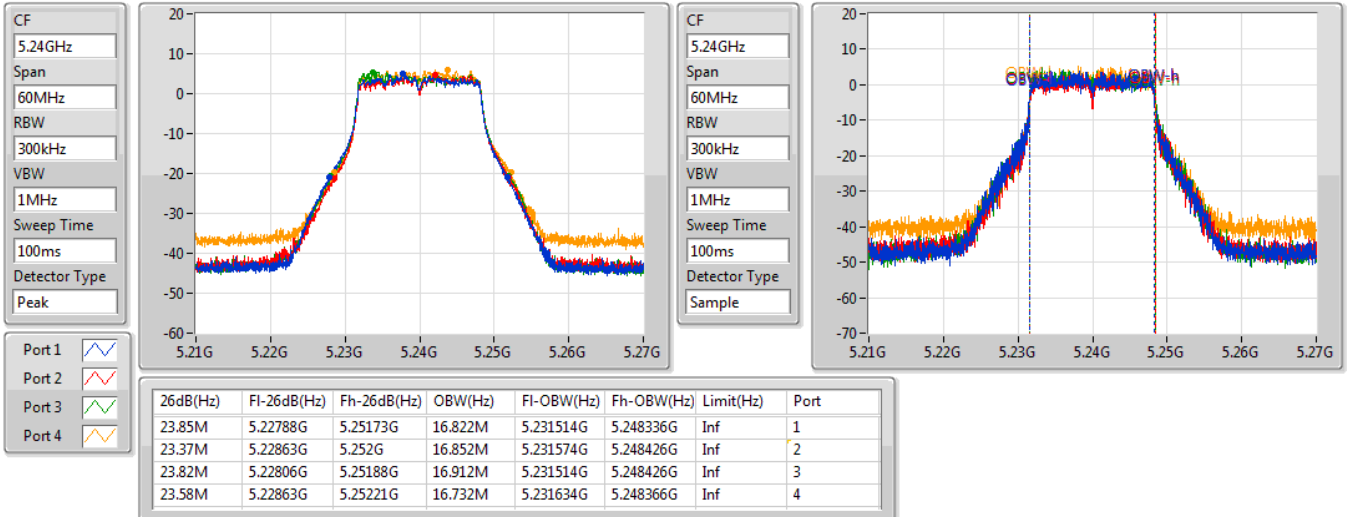


802.11a_Nss1,(6Mbps)_4TX

EBW

5240MHz

16/07/2021

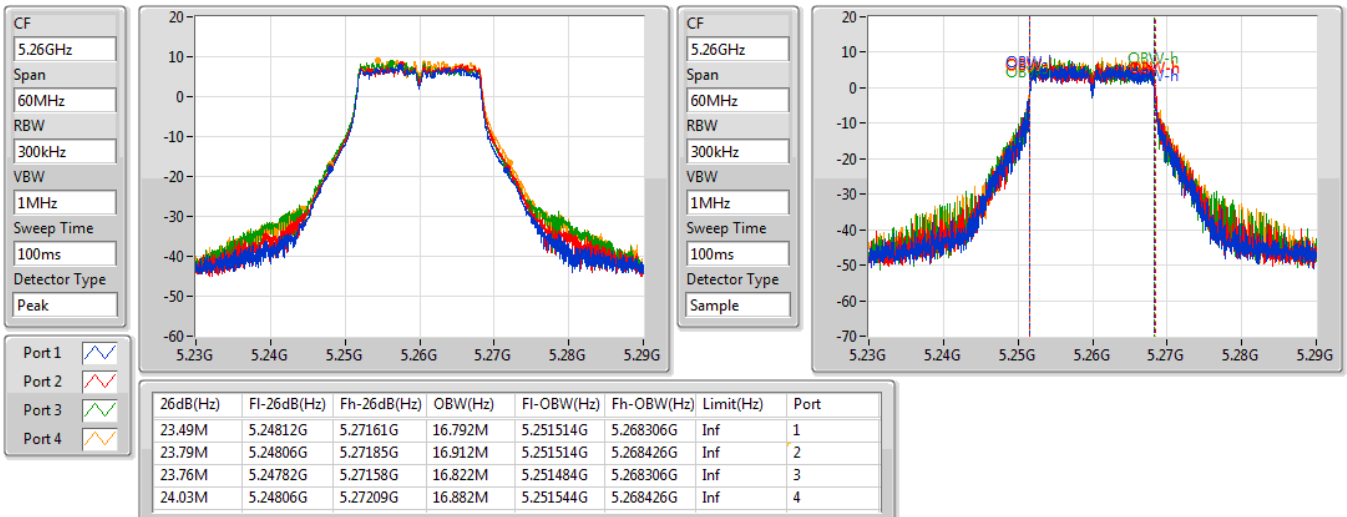


802.11a_Nss1,(6Mbps)_4TX

EBW

5260MHz

16/03/2021

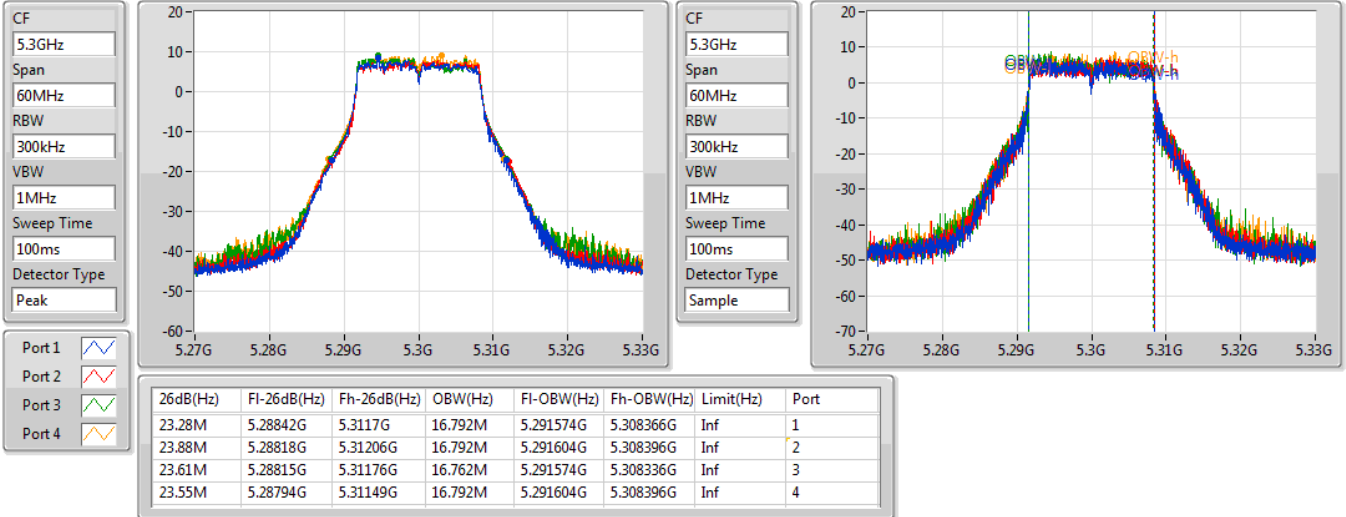


802.11a_Nss1,(6Mbps)_4TX

EBW

5300MHz

16/03/2021

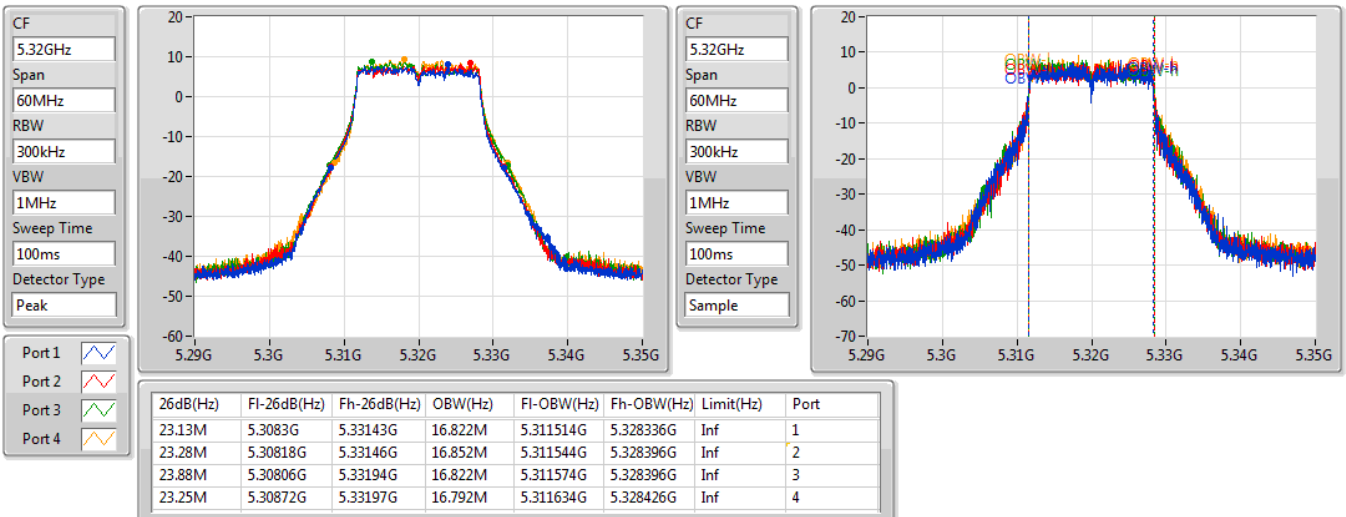


802.11a_Nss1,(6Mbps)_4TX

EBW

5320MHz

16/03/2021

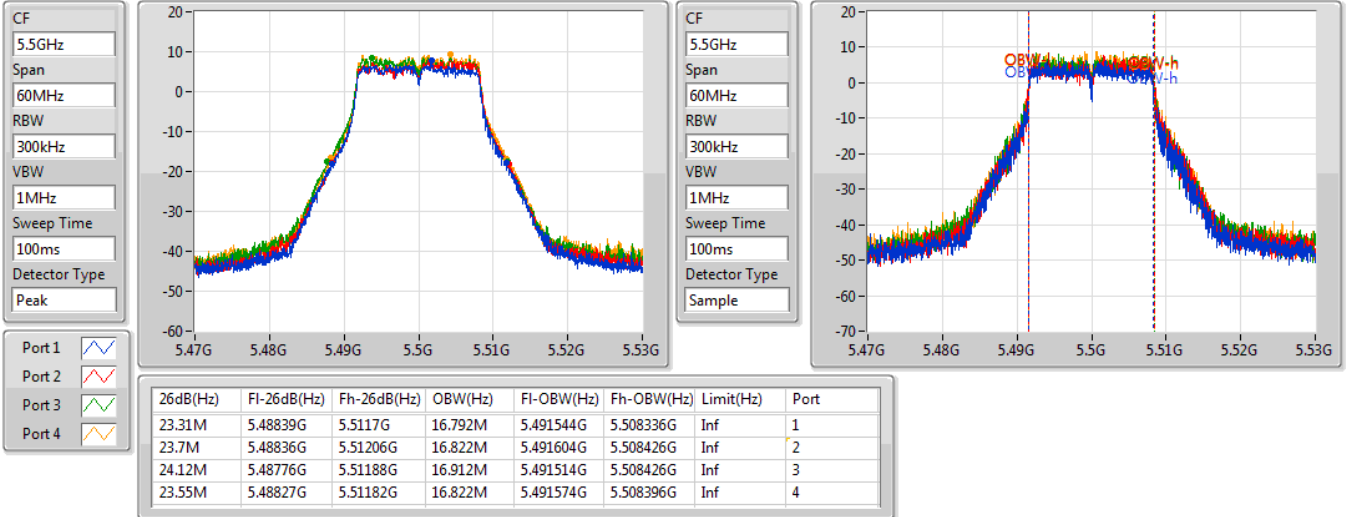


802.11a_Nss1,(6Mbps)_4TX

EBW

5500MHz

16/03/2021

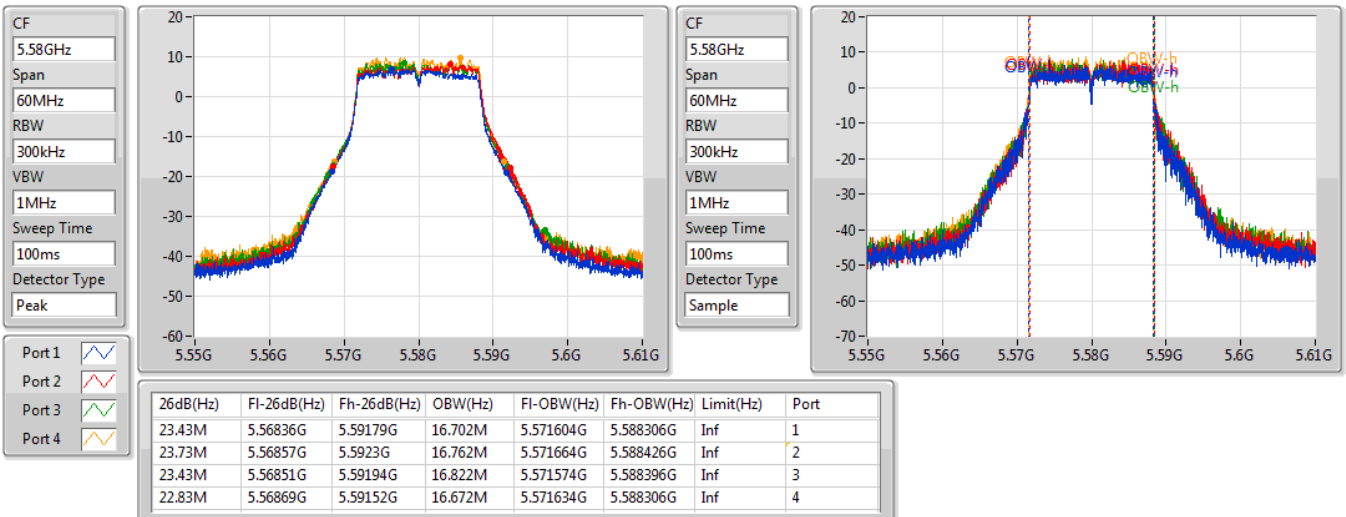


802.11a_Nss1,(6Mbps)_4TX

EBW

5580MHz

16/03/2021

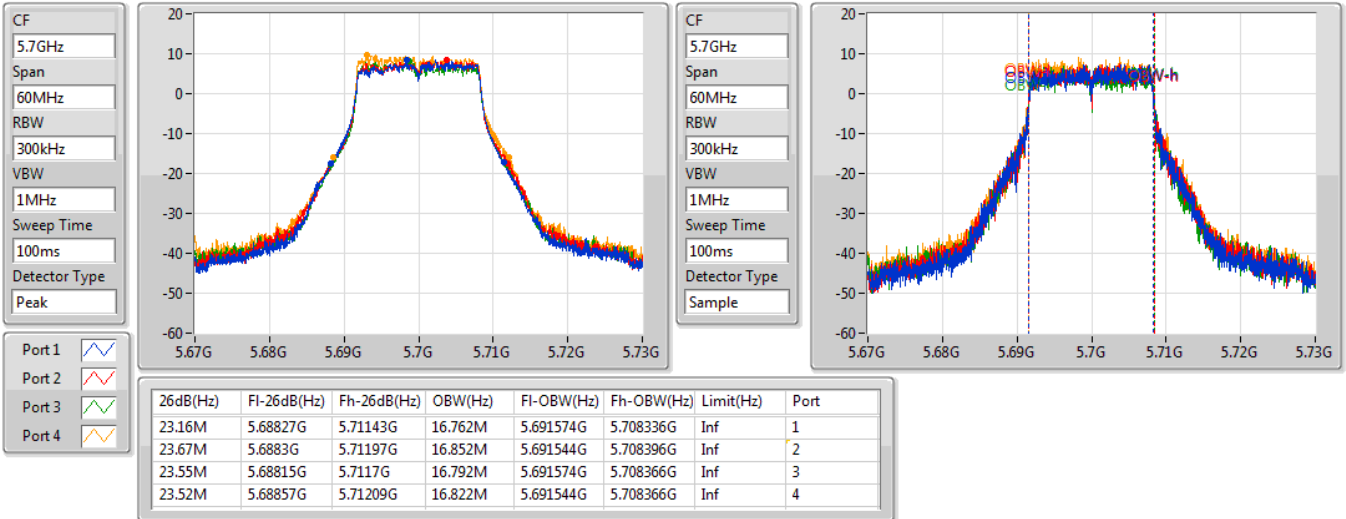


802.11a_Nss1,(6Mbps)_4TX

EBW

5700MHz

16/03/2021

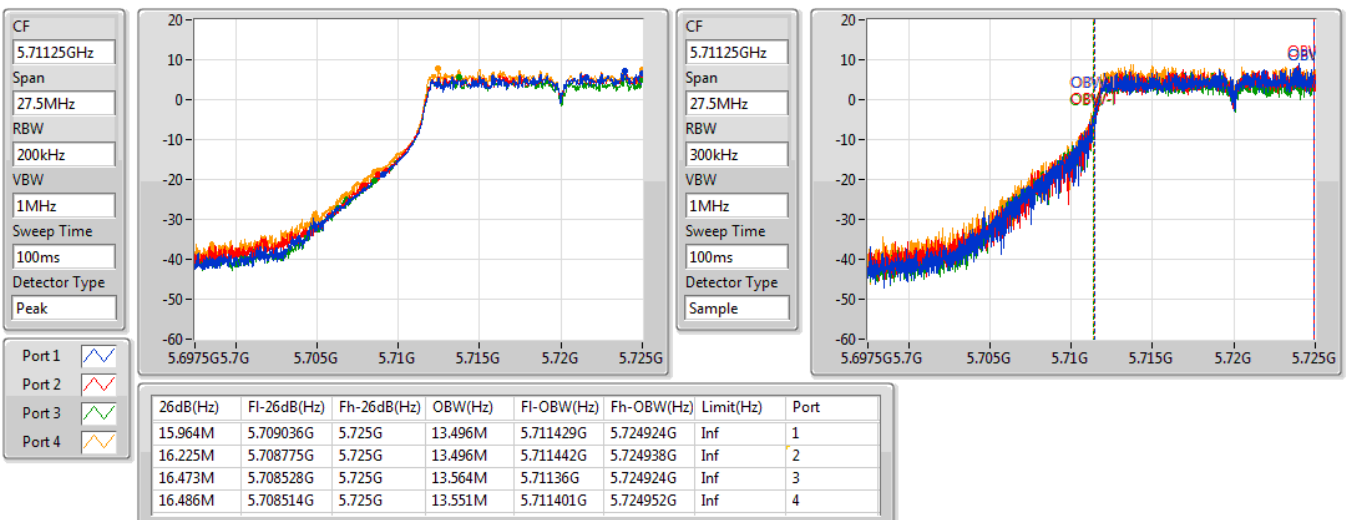


802.11a_Nss1,(6Mbps)_4TX

EBW

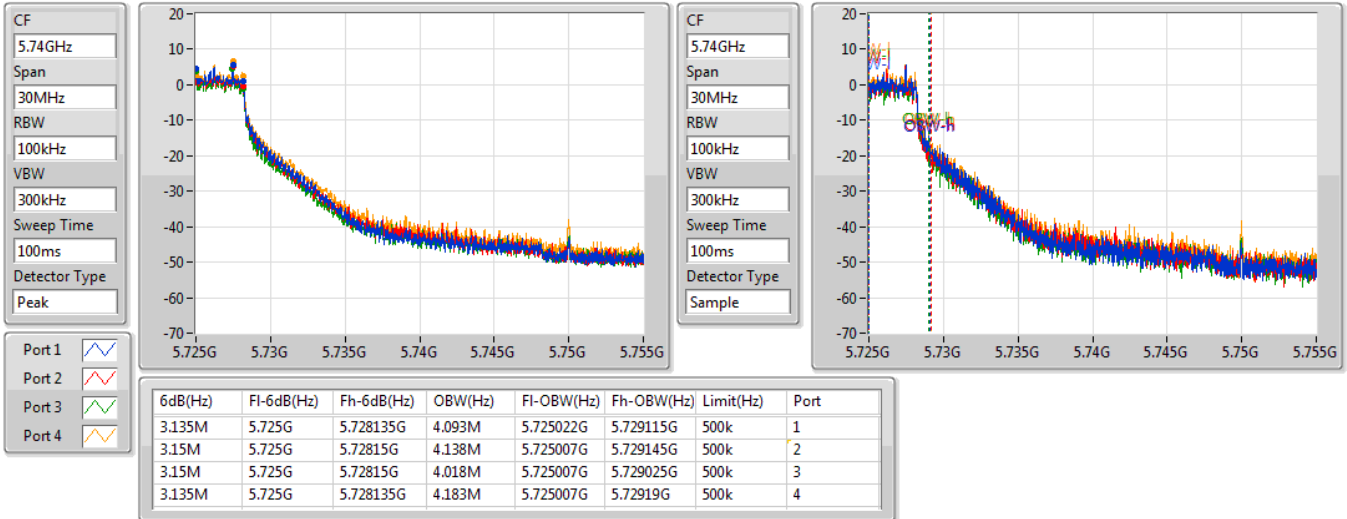
5720MHz Straddle 5.47-5.725GHz

16/03/2021

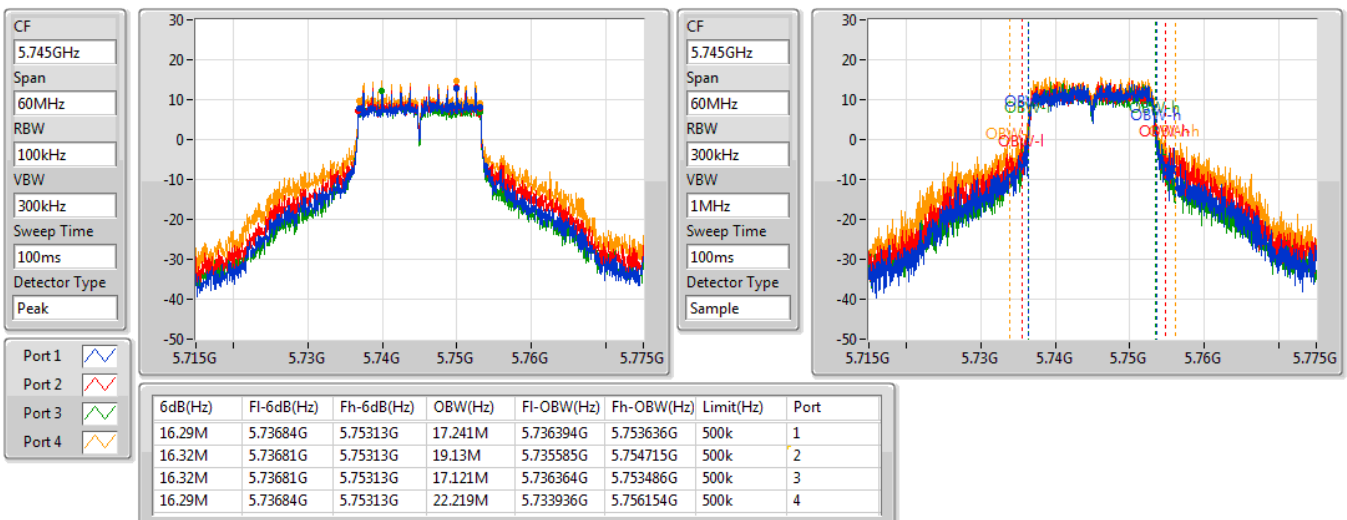


802.11a_Nss1,(6Mbps)_4TX
EBW
5720MHz Straddle 5.725-5.85GHz

16/03/2021


802.11a_Nss1,(6Mbps)_4TX
EBW
5745MHz

16/03/2021

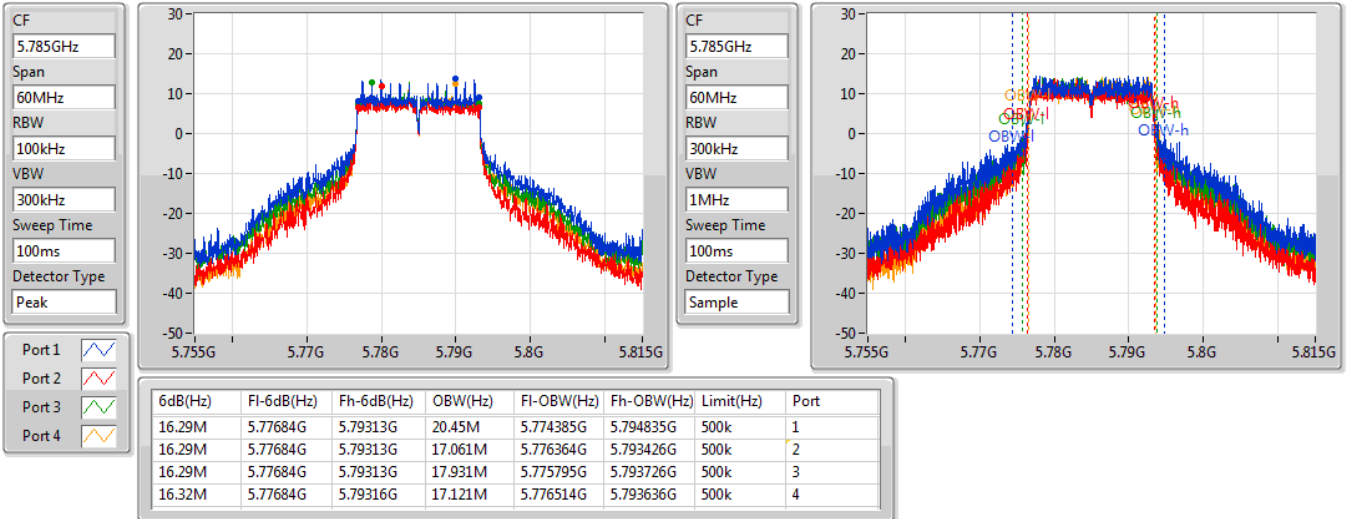


802.11a_Nss1,(6Mbps)_4TX

EBW

5785MHz

08/02/2021

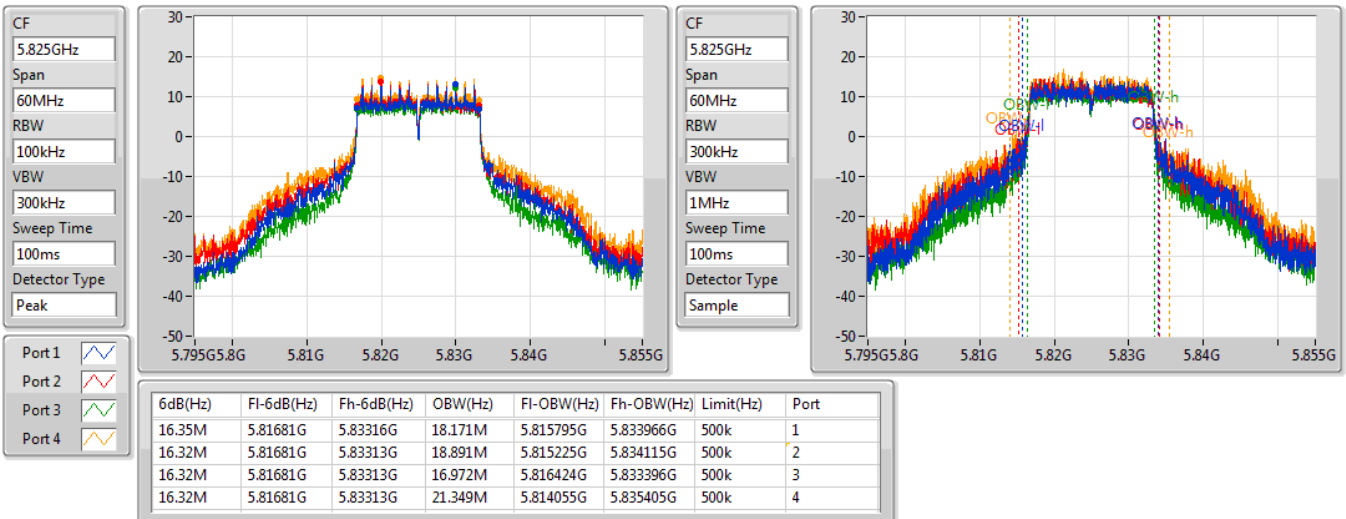


802.11a_Nss1,(6Mbps)_4TX

EBW

5825MHz

16/03/2021

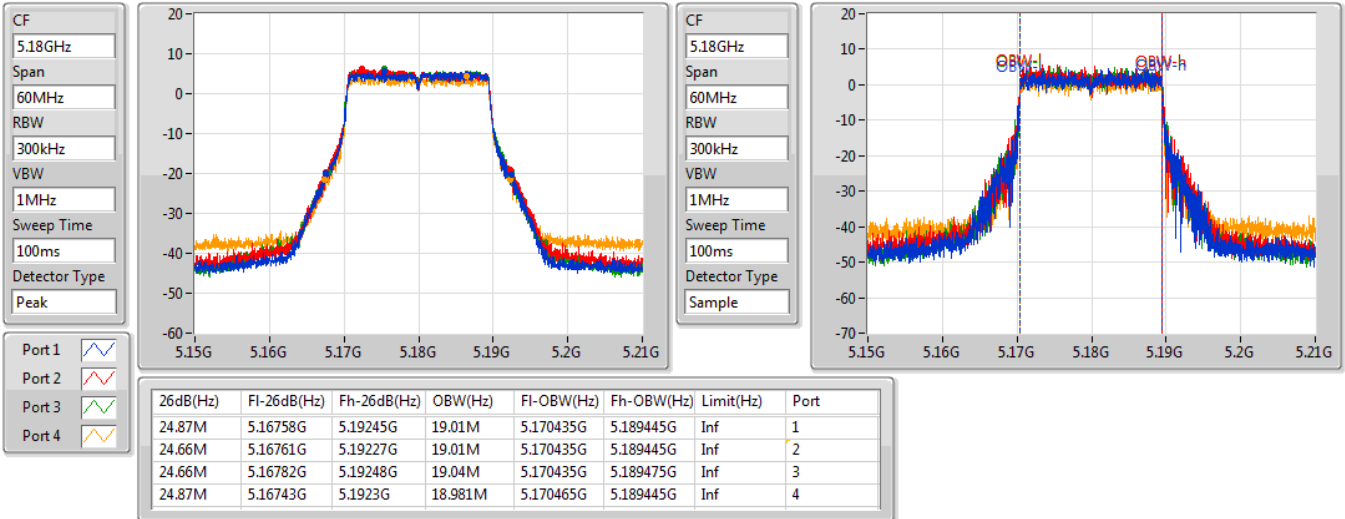


802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

5180MHz

16/07/2021

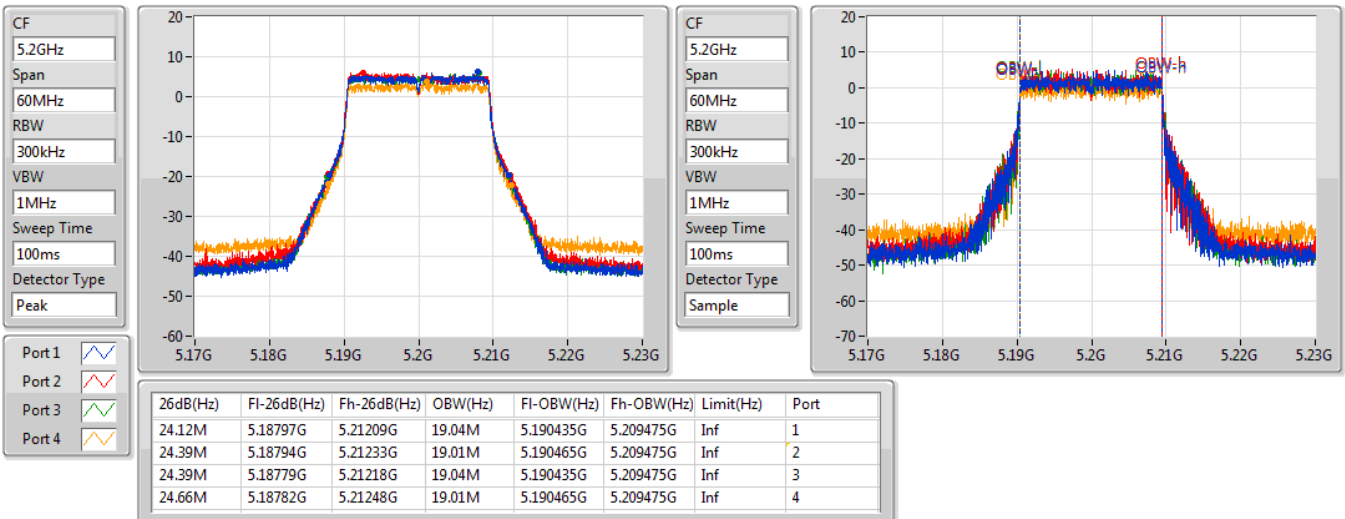


802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

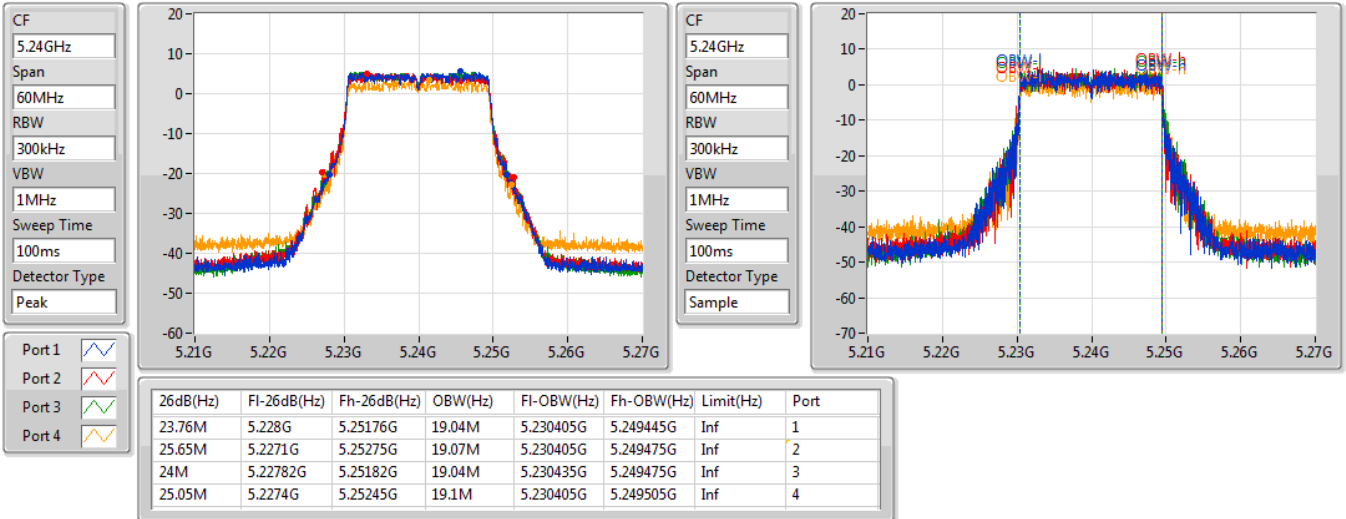
5200MHz

16/07/2021

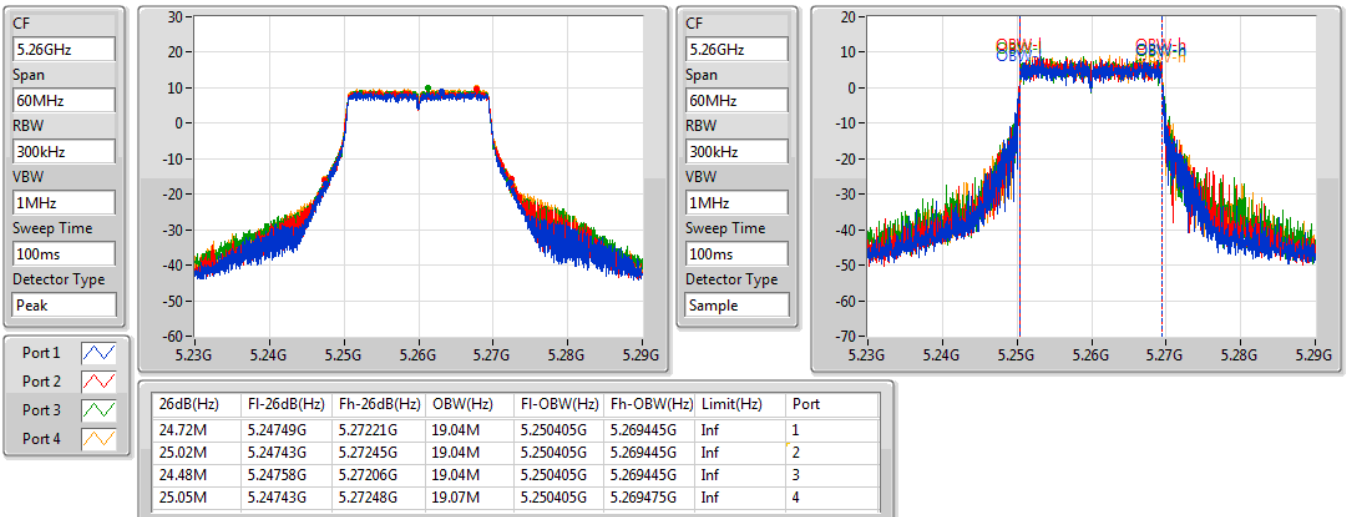


802.11ax HEW20_Nss1,(MCS0)_4TX
EBW
5240MHz

16/07/2021


802.11ax HEW20_Nss1,(MCS0)_4TX
EBW
5260MHz

16/03/2021

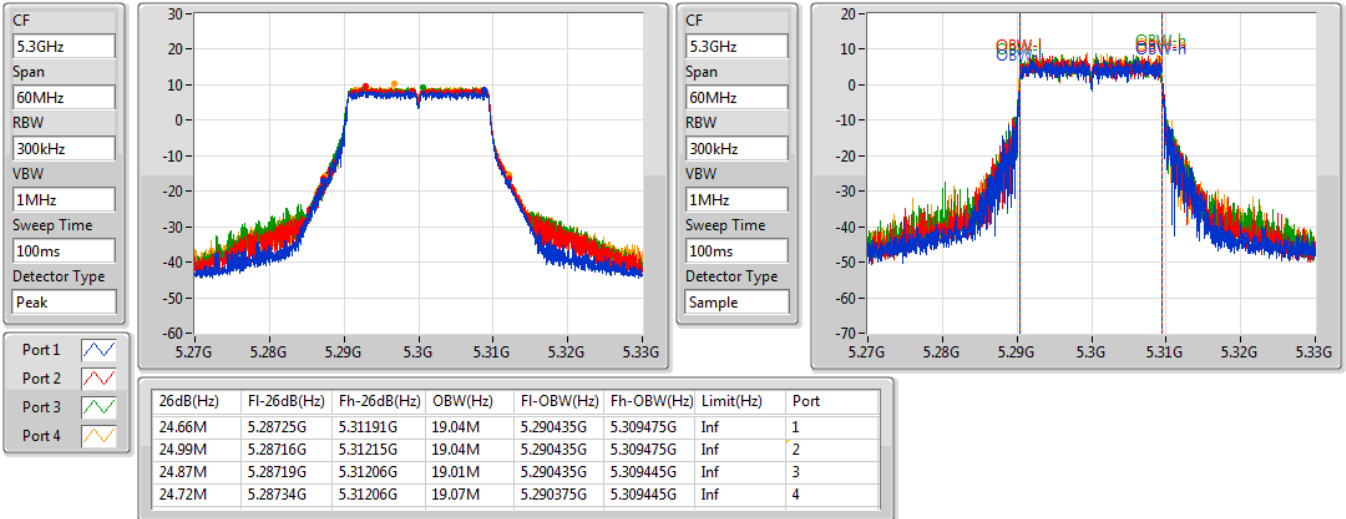


802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

5300MHz

16/03/2021

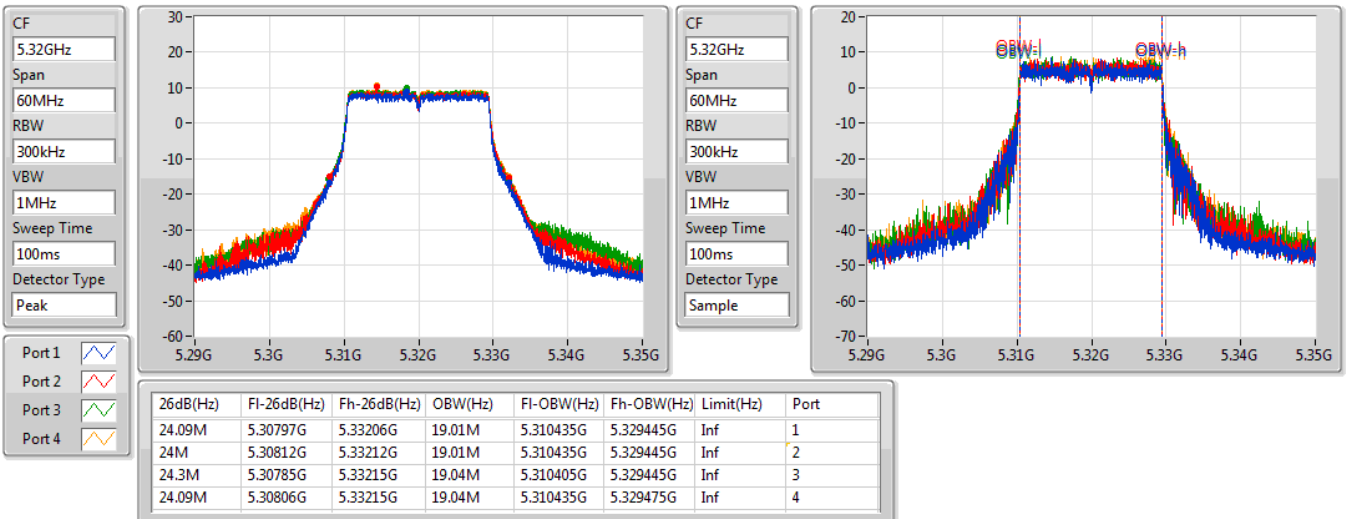


802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

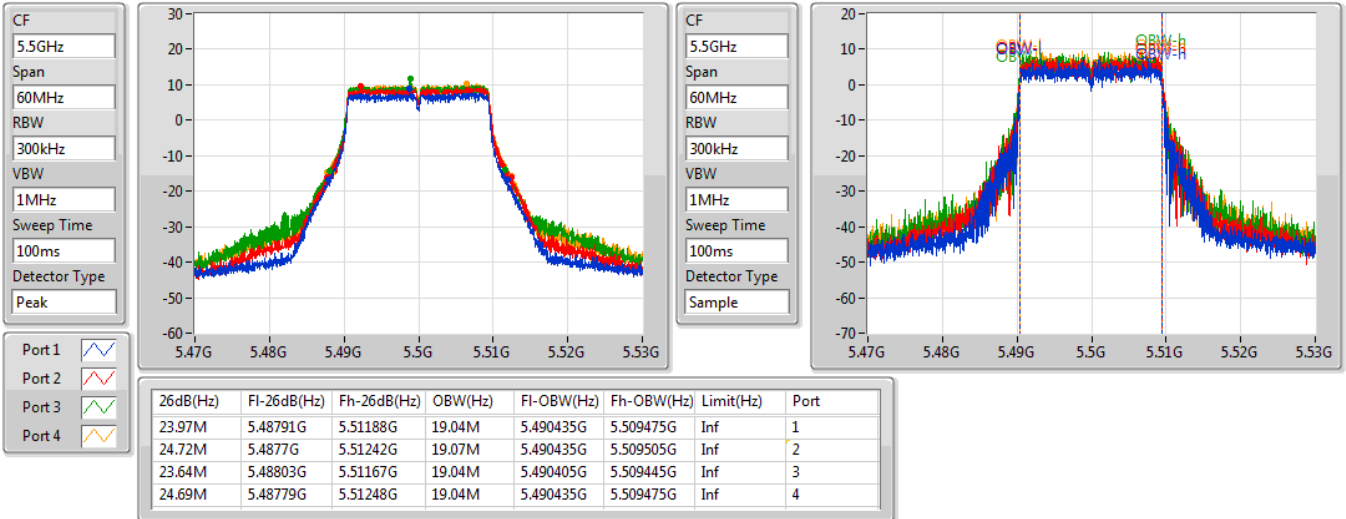
5320MHz

16/03/2021

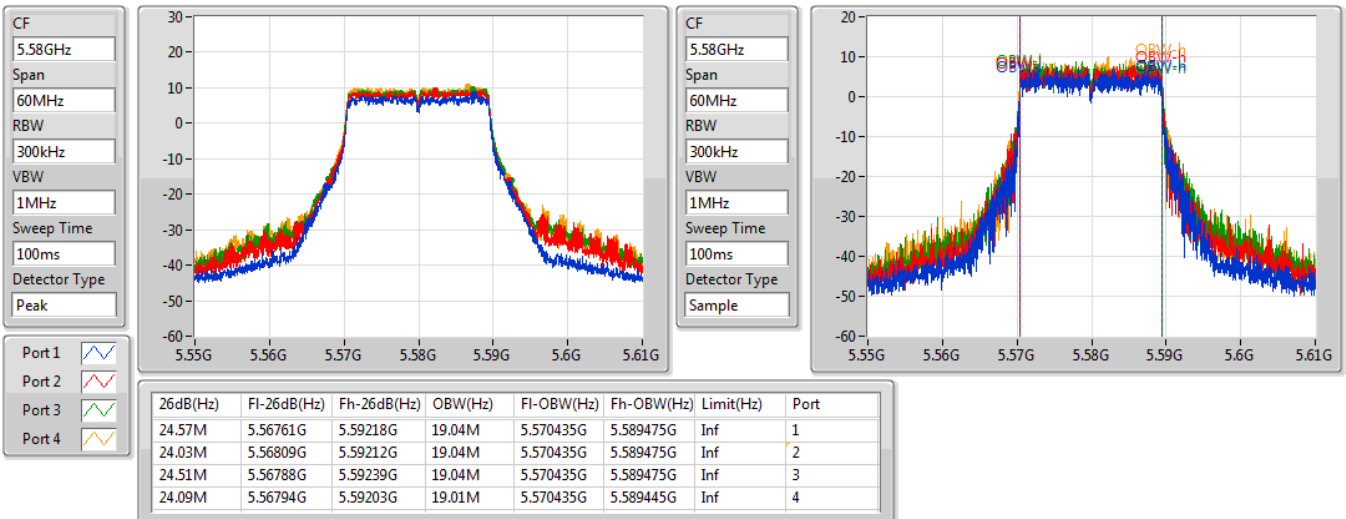


802.11ax HEW20_Nss1,(MCS0)_4TX
EBW
5500MHz

16/03/2021


802.11ax HEW20_Nss1,(MCS0)_4TX
EBW
5580MHz

16/03/2021

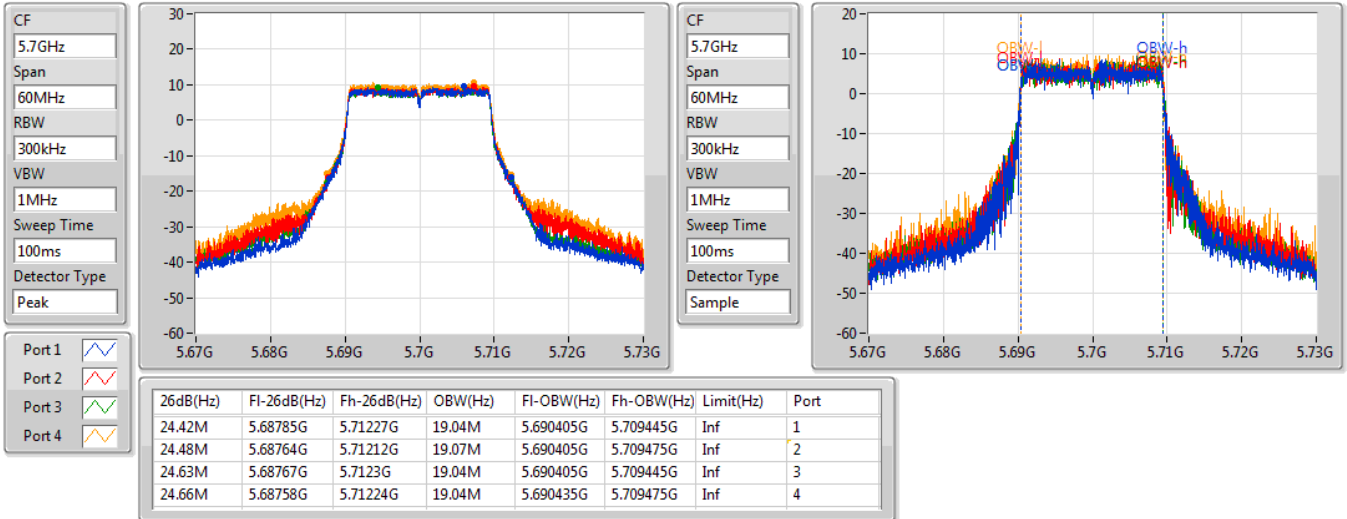


802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

5700MHz

16/03/2021

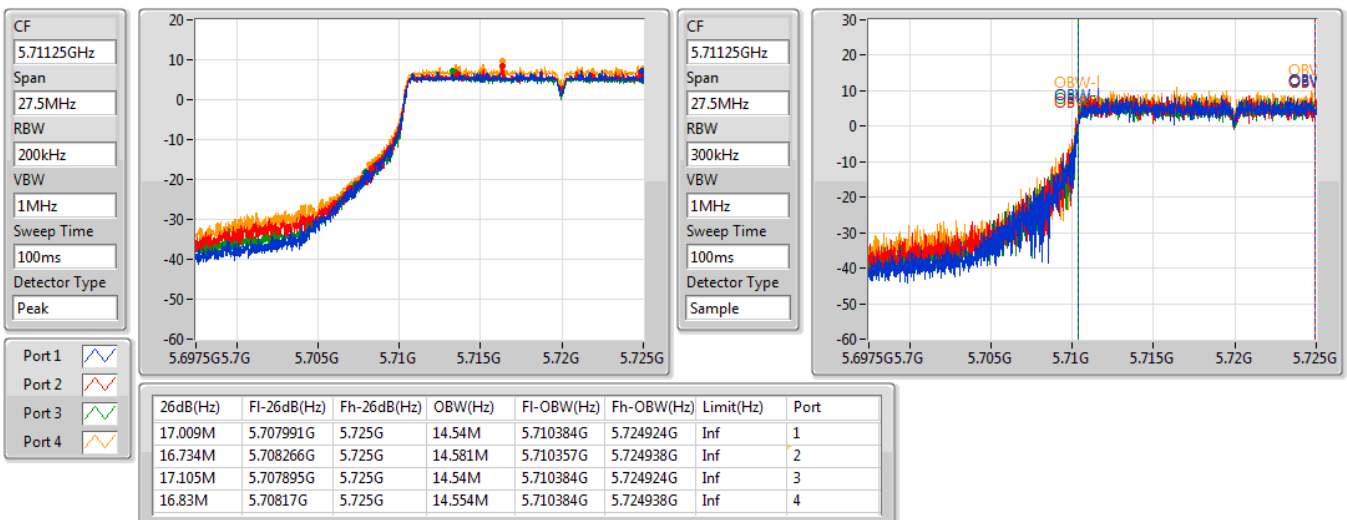


802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

5720MHz Straddle 5.47-5.725GHz

16/03/2021

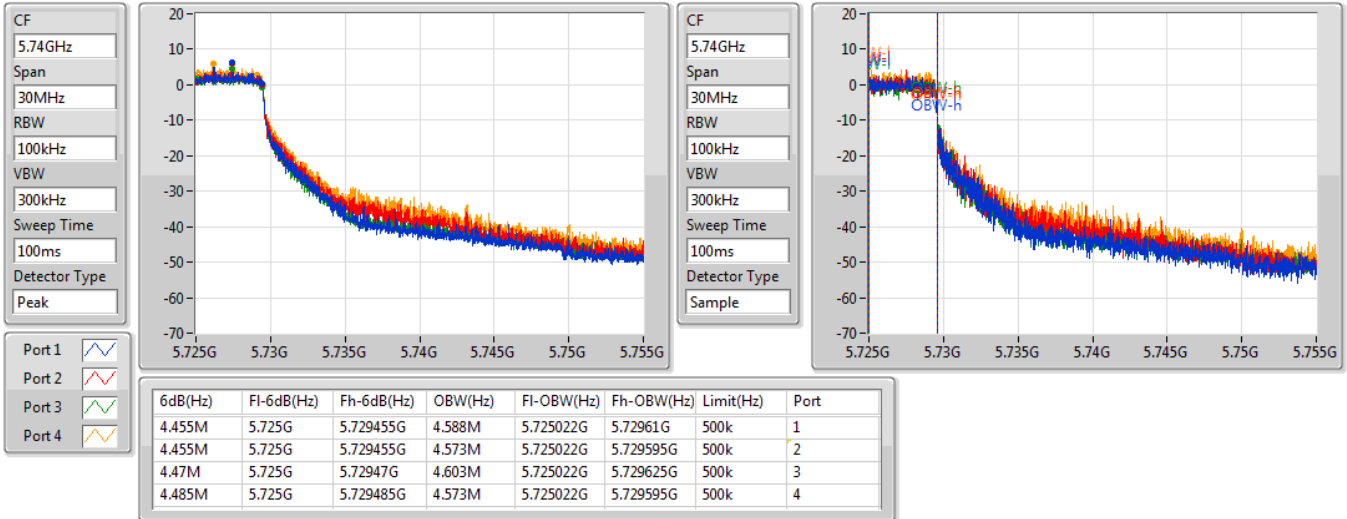


802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

5720MHz Straddle 5.725-5.85GHz

16/03/2021

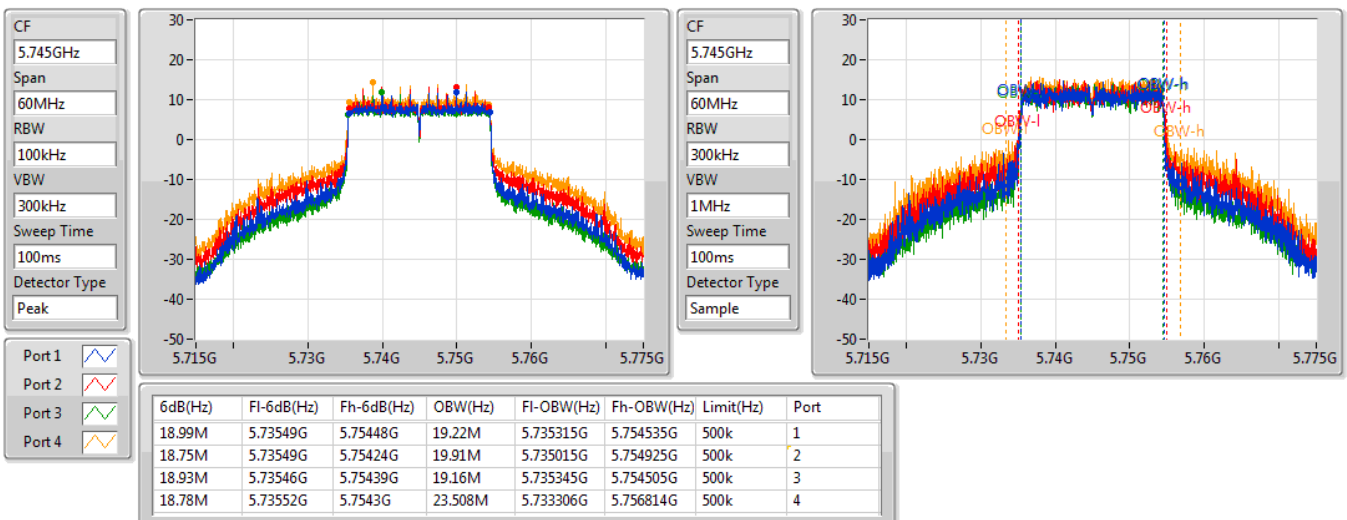


802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

5745MHz

16/03/2021

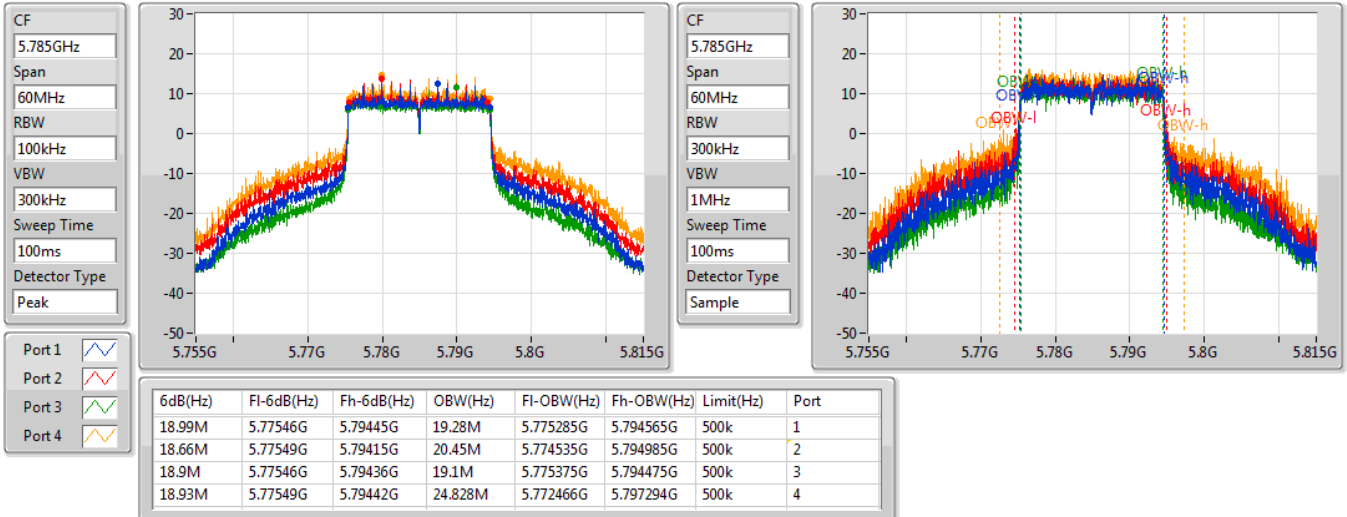


802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

5785MHz

16/03/2021

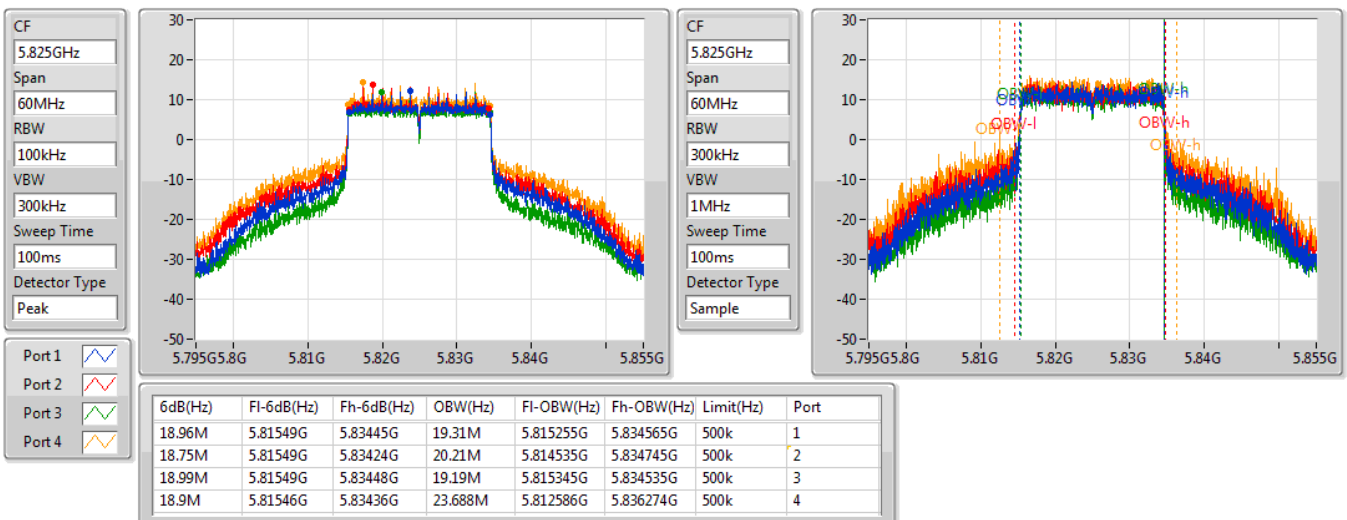


802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

5825MHz

16/03/2021

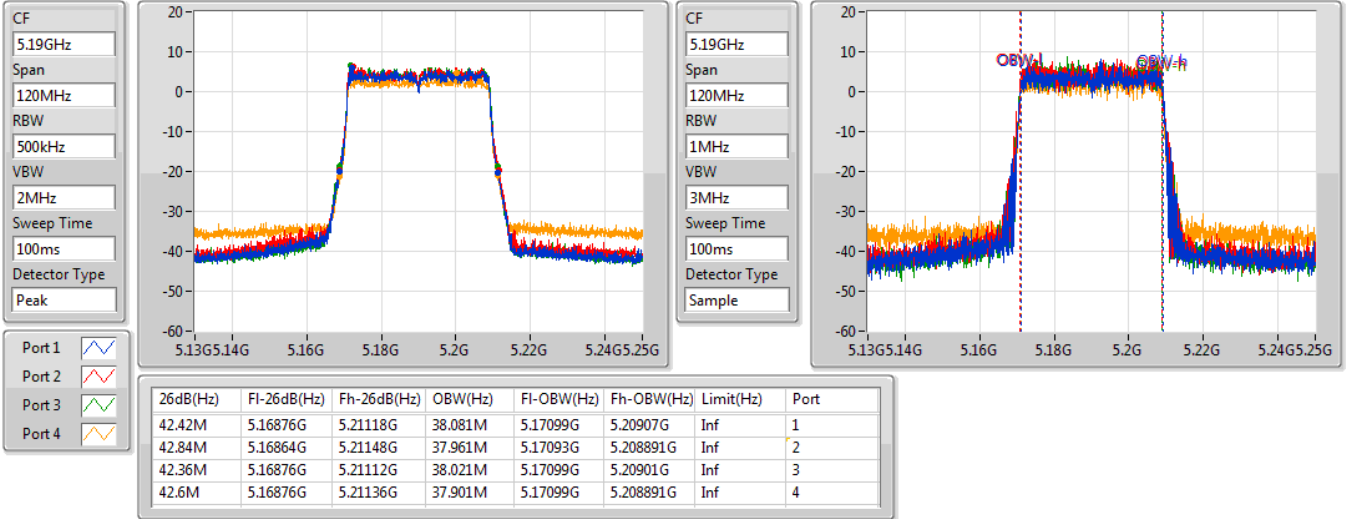


802.11ax HEW40_Nss1,(MCS0)_4TX

EBW

5190MHz

16/07/2021

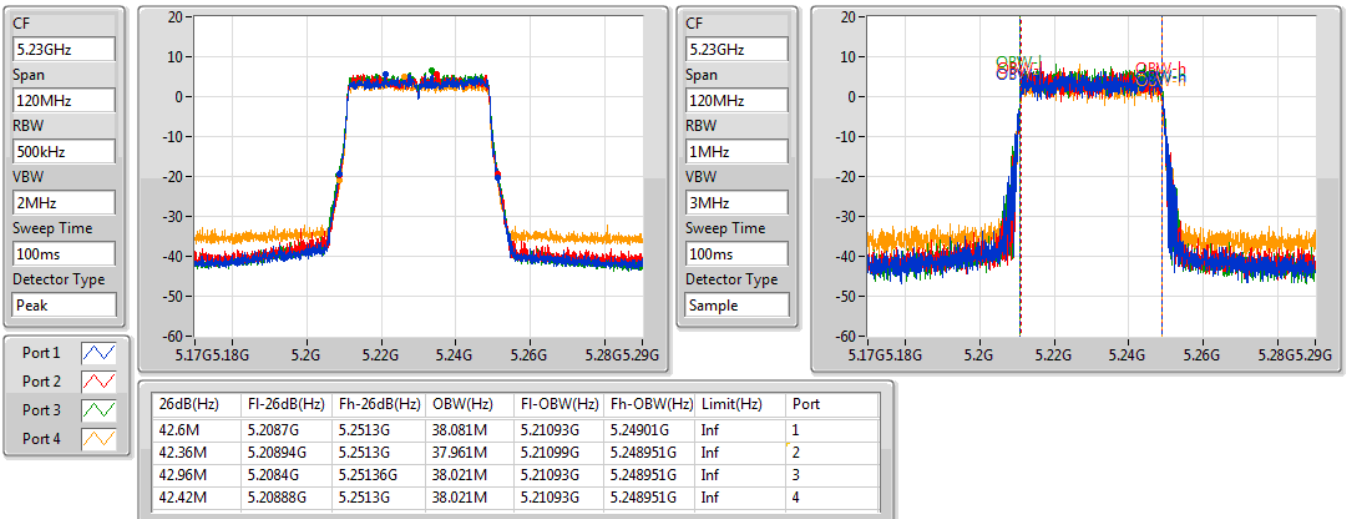


802.11ax HEW40_Nss1,(MCS0)_4TX

EBW

5230MHz

16/07/2021

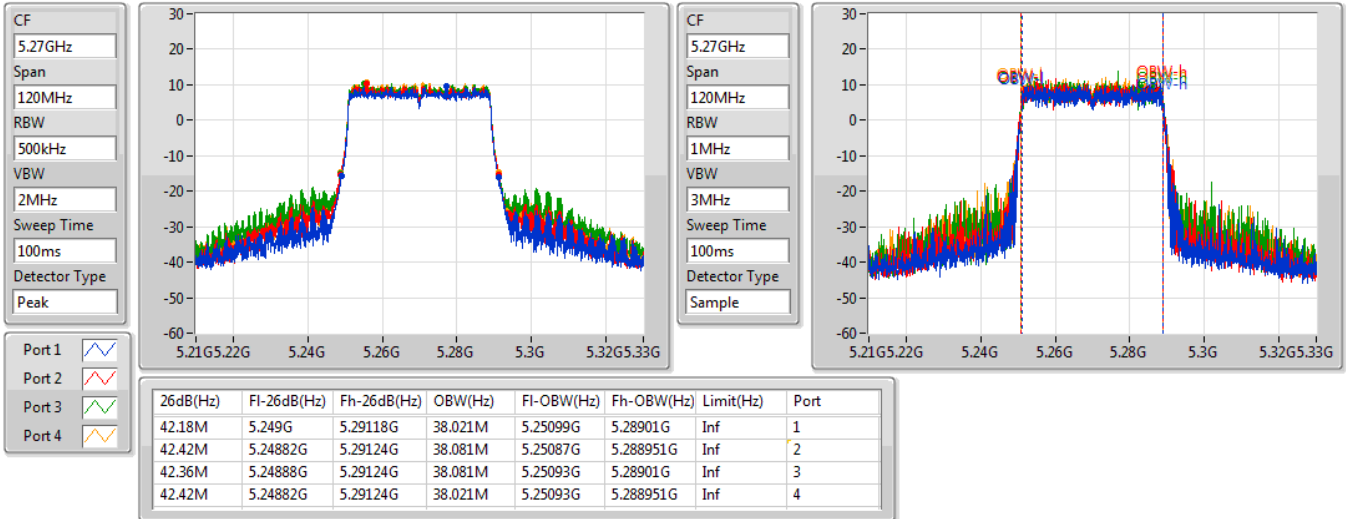


802.11ax HEW40_Nss1,(MCS0)_4TX

EBW

5270MHz

16/03/2021

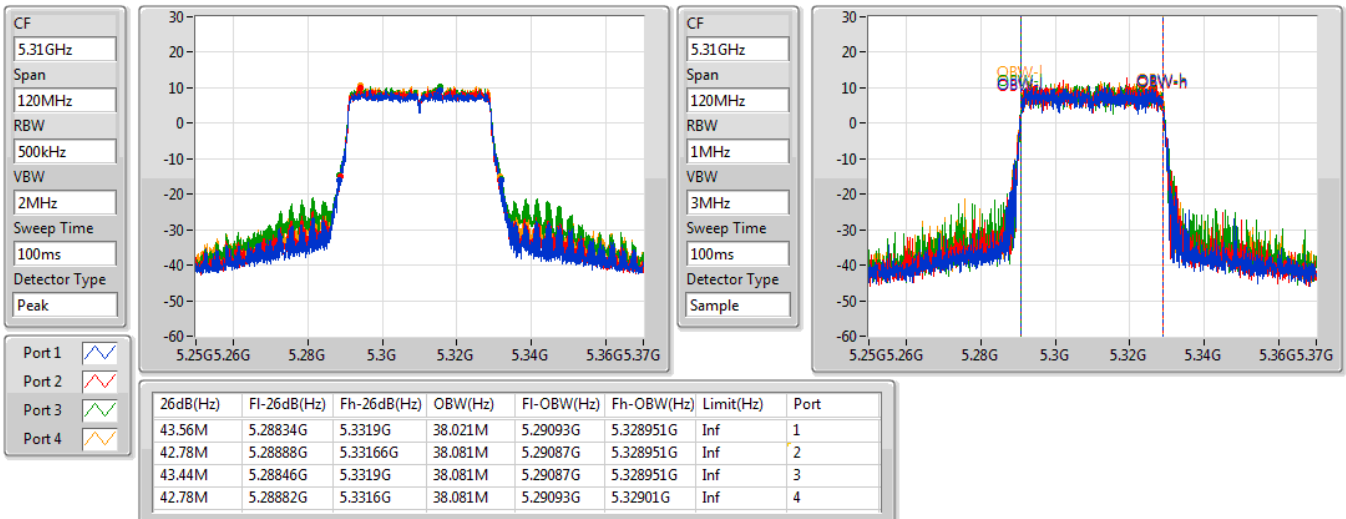


802.11ax HEW40_Nss1,(MCS0)_4TX

EBW

5310MHz

16/03/2021

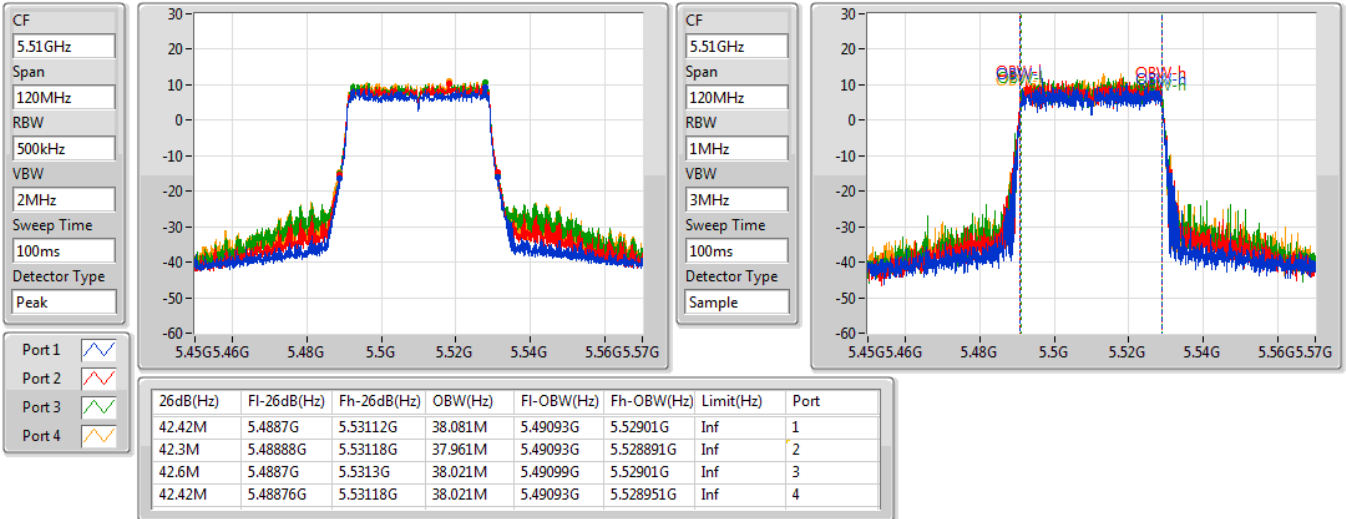


802.11ax HEW40_Nss1,(MCS0)_4TX

EBW

5510MHz

16/03/2021

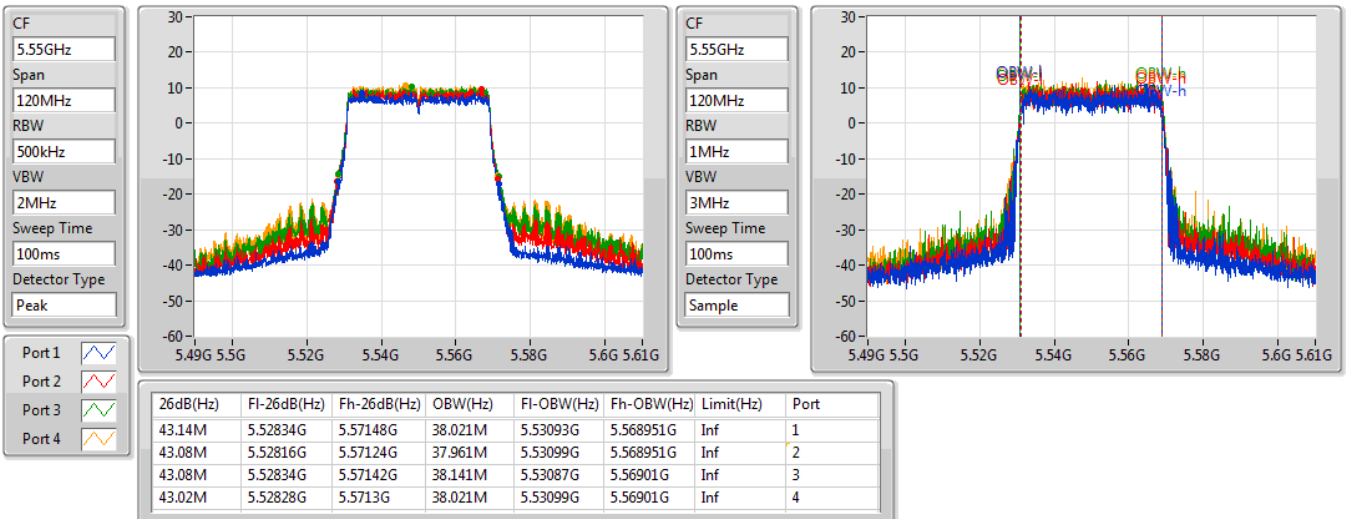


802.11ax HEW40_Nss1,(MCS0)_4TX

EBW

5550MHz

16/03/2021

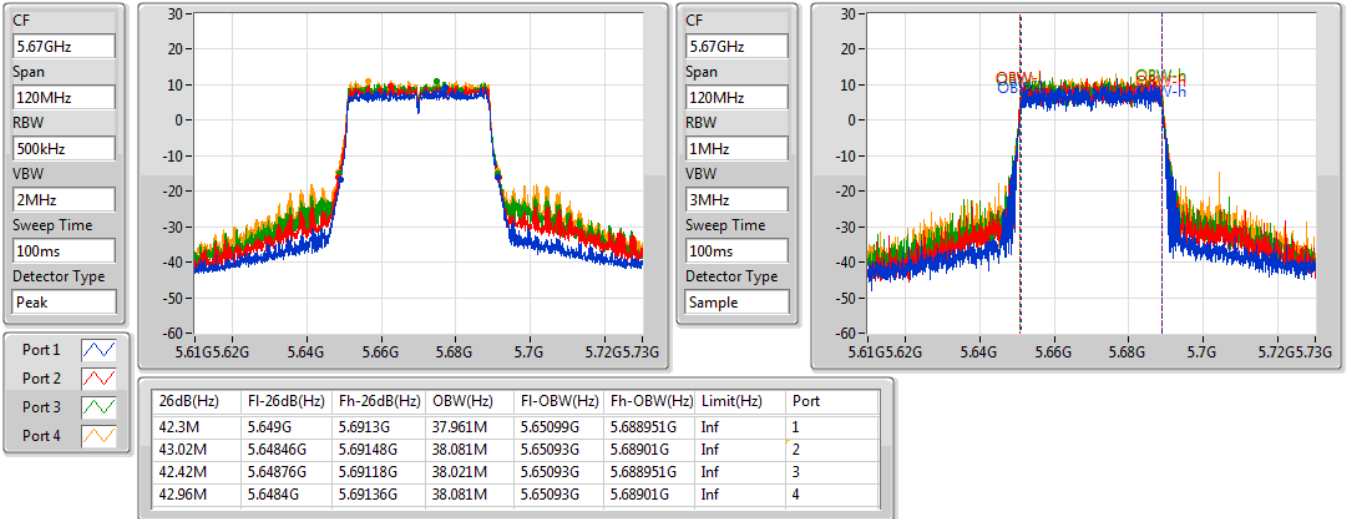


802.11ax HEW40_Nss1,(MCS0)_4TX

EBW

5670MHz

16/03/2021

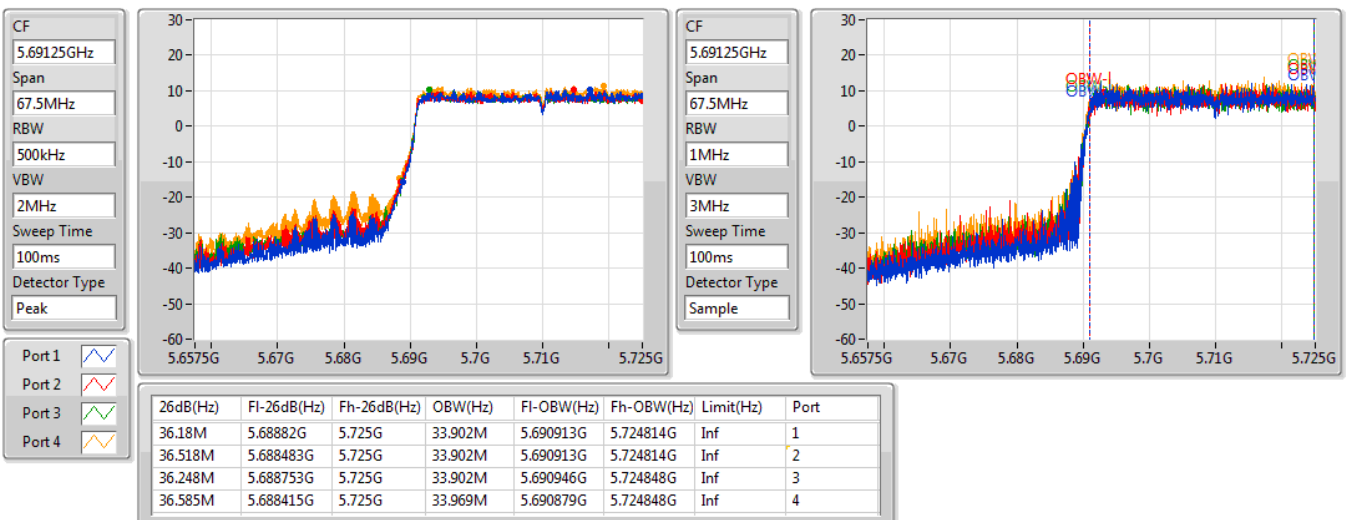


802.11ax HEW40_Nss1,(MCS0)_4TX

EBW

5710MHz Straddle 5.47-5.725GHz

16/03/2021

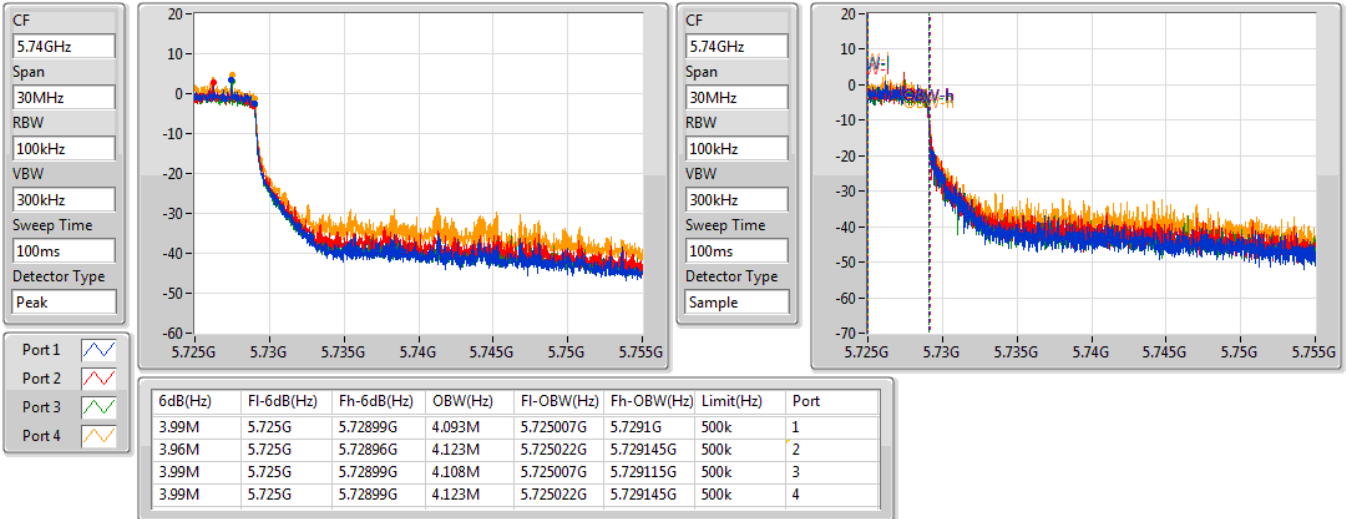


802.11ax HEW40_Nss1,(MCS0)_4TX

EBW

5710MHz Straddle 5.725-5.85GHz

16/03/2021

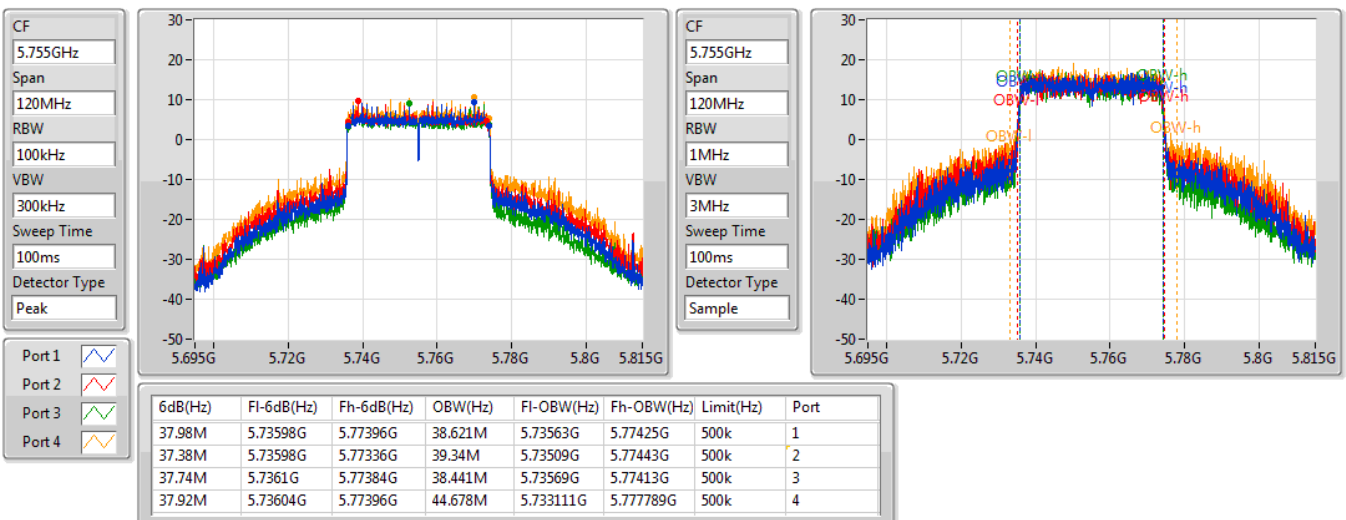


802.11ax HEW40_Nss1,(MCS0)_4TX

EBW

5755MHz

16/03/2021

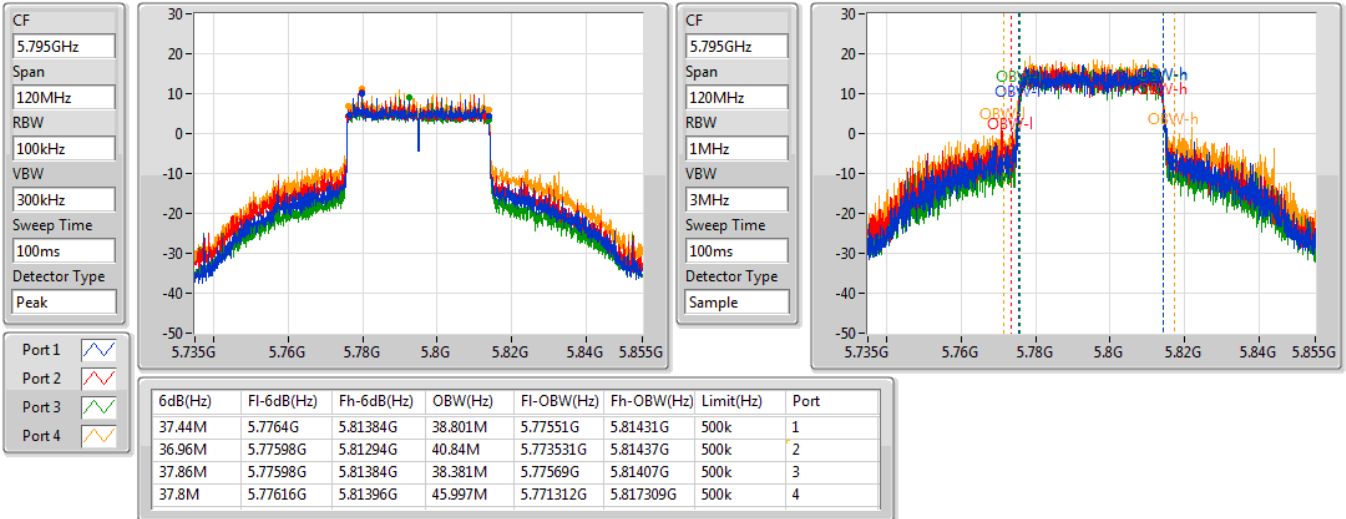


802.11ax HEW40_Nss1,(MCS0)_4TX

EBW

5795MHz

16/03/2021

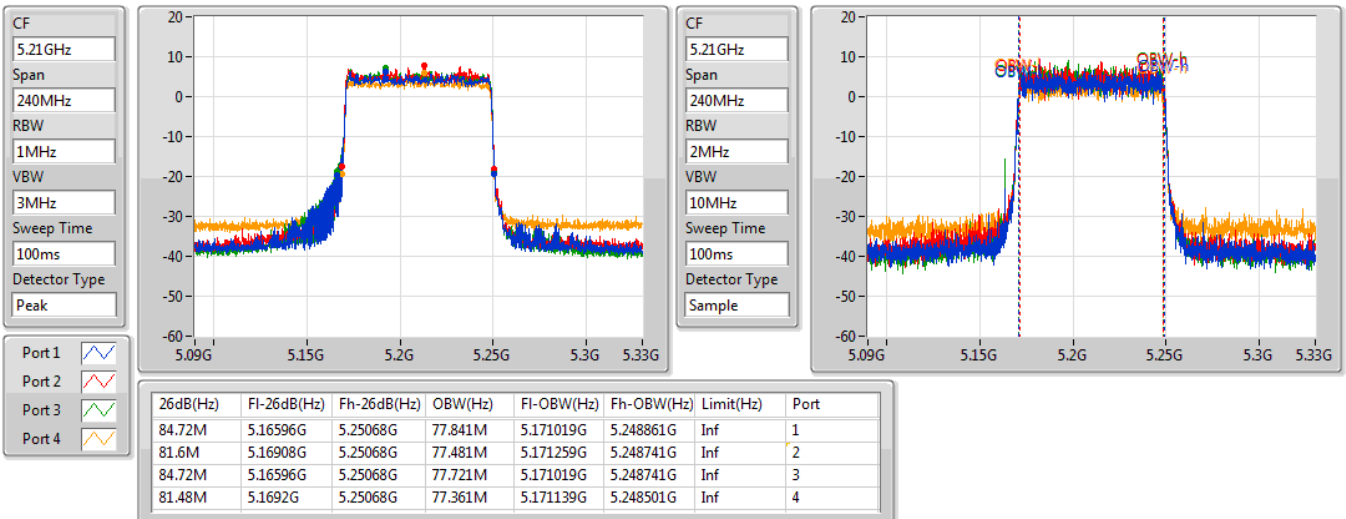


802.11ax HEW80_Nss1,(MCS0)_4TX

EBW

5210MHz

16/07/2021

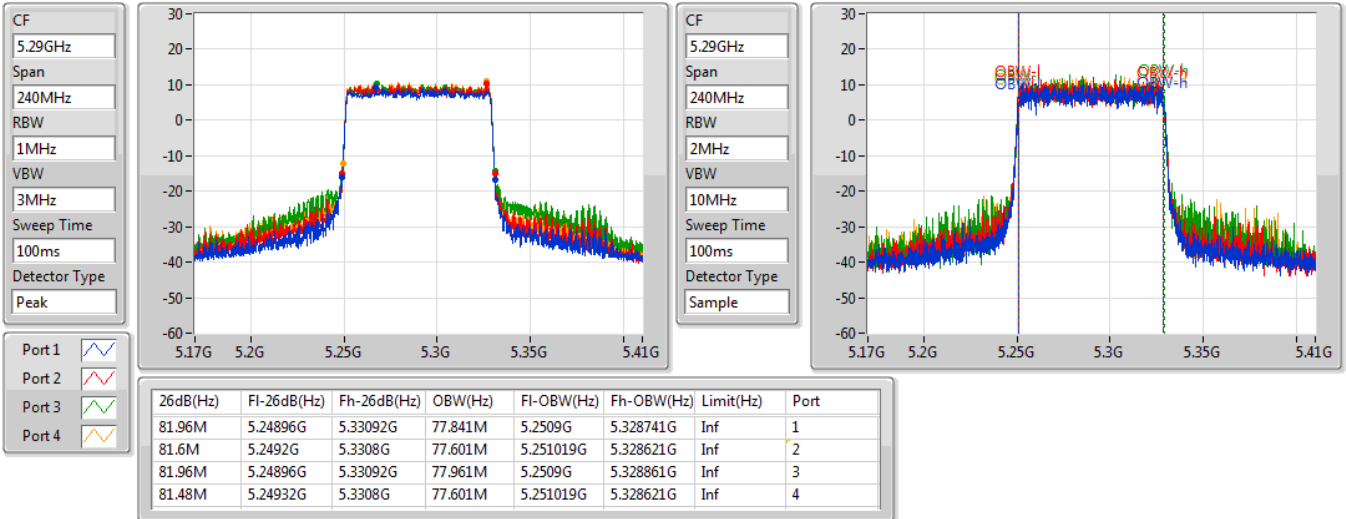


802.11ax HEW80_Nss1,(MCS0)_4TX

EBW

5290MHz

16/03/2021

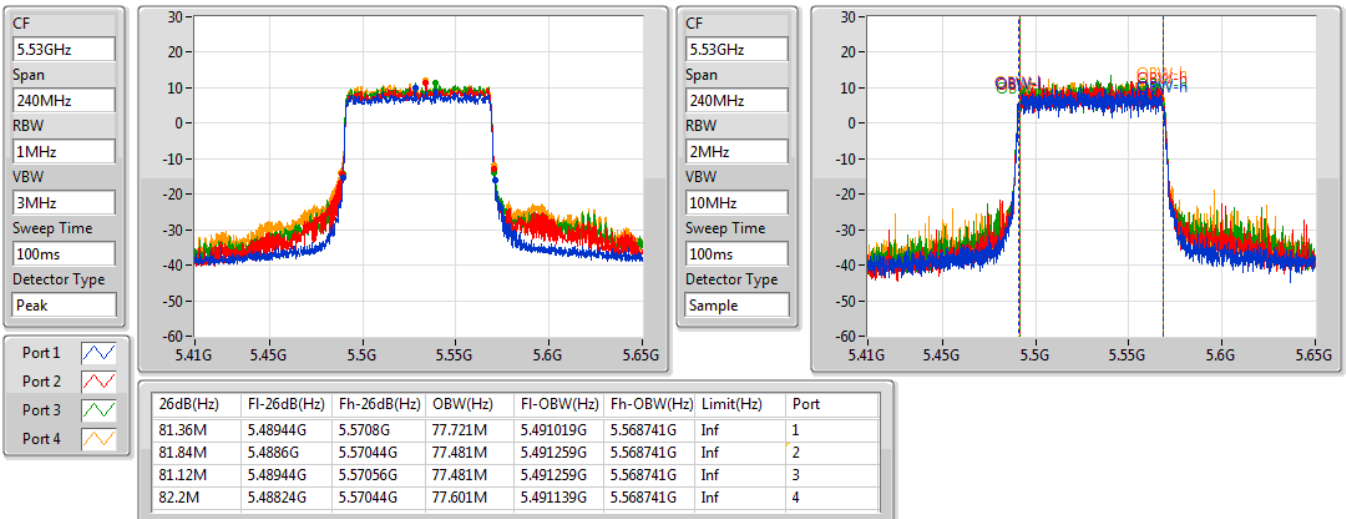


802.11ax HEW80_Nss1,(MCS0)_4TX

EBW

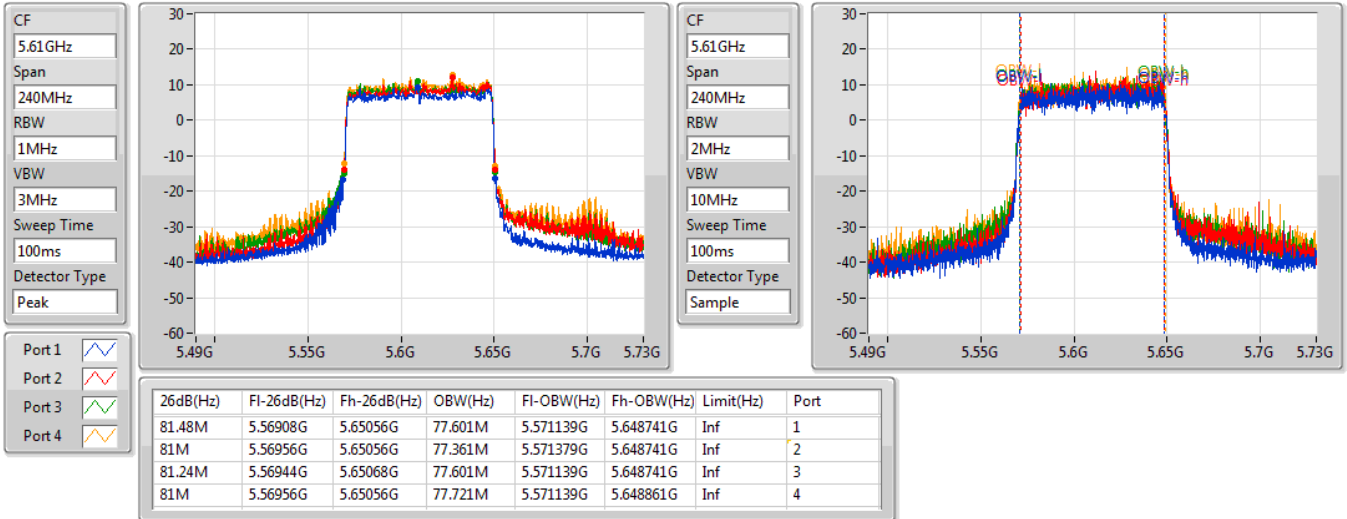
5530MHz

16/03/2021

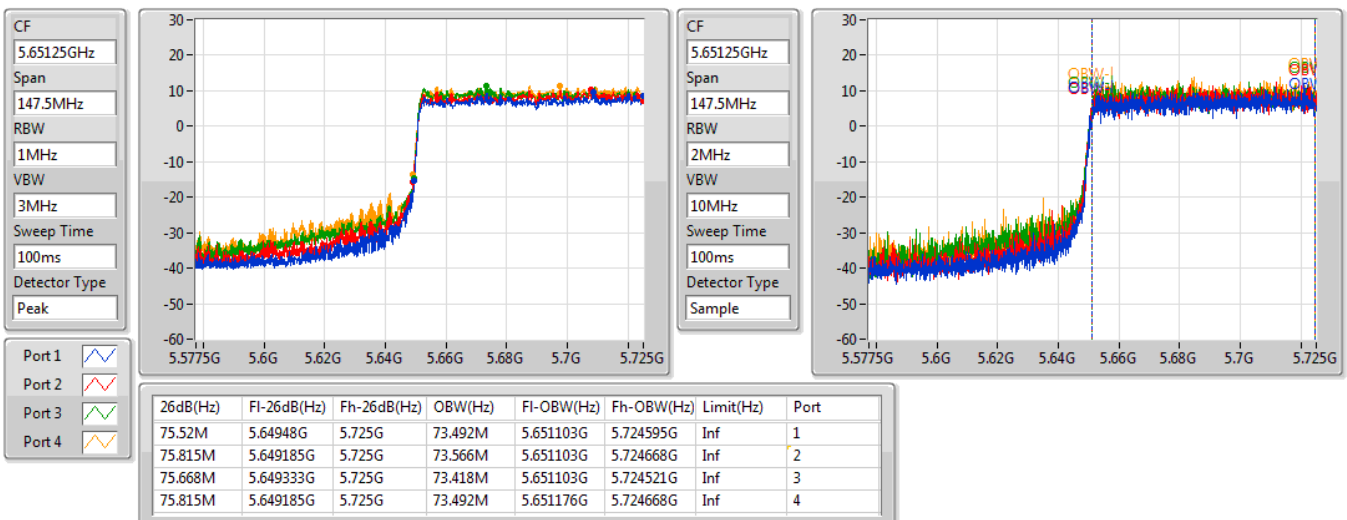


802.11ax HEW80_Nss1,(MCS0)_4TX
EBW
5610MHz

16/03/2021

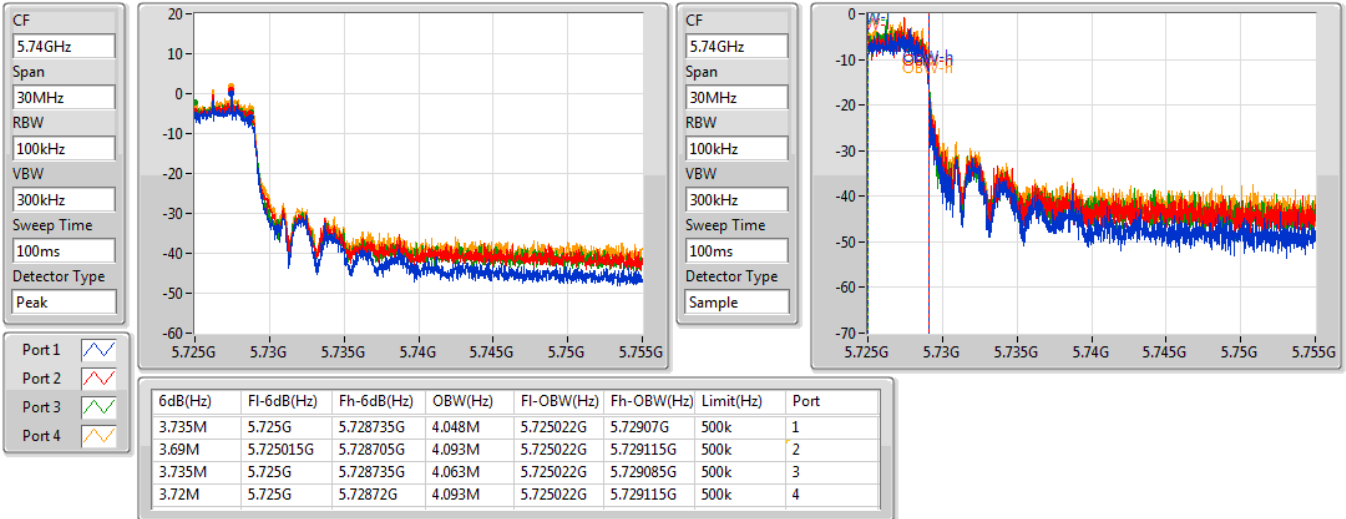

802.11ax HEW80_Nss1,(MCS0)_4TX
EBW
5690MHz Straddle 5.47-5.725GHz

16/03/2021

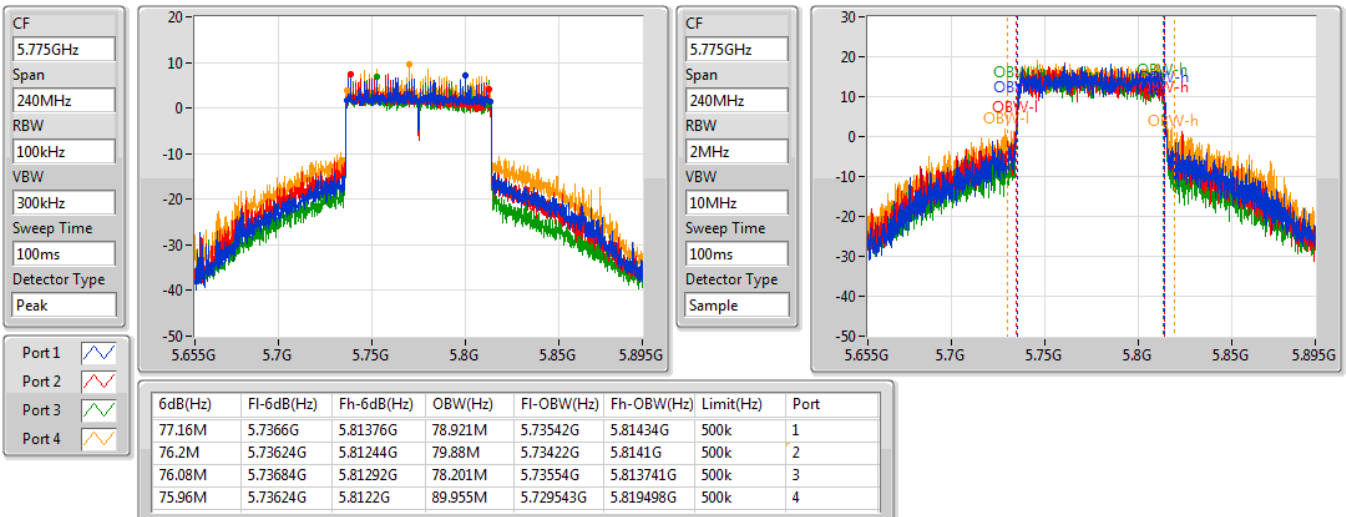


802.11ax HEW80_Nss1,(MCS0)_4TX
EBW
5690MHz Straddle 5.725-5.85GHz

16/03/2021


802.11ax HEW80_Nss1,(MCS0)_4TX
EBW
5775MHz

16/03/2021



Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.15-5.25GHz	-	-	-	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	25.53M	19.04M	19M0D1D	23.61M	18.981M
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	42.72M	38.201M	38M2D1D	42.24M	37.961M
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	81.84M	77.721M	77M7D1D	81.24M	77.481M
5.25-5.35GHz	-	-	-	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	36.18M	19.19M	19M2D1D	23.88M	19.01M
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	60.24M	38.141M	38M1D1D	42.24M	37.961M
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	83.4M	77.961M	78M0D1D	81.36M	77.241M
5.47-5.725GHz	-	-	-	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	24.93M	19.22M	19M2D1D	16.665M	14.513M
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	45.9M	38.381M	38M4D1D	36.821M	33.632M
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	83.64M	77.841M	77M8D1D	75.373M	73.05M
5.725-5.85GHz	-	-	-	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	18.99M	34.843M	34M8D1D	4.305M	4.618M
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	37.56M	61.529M	61M5D1D	3.285M	4.093M
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	75.36M	98.231M	98M2D1D	2.97M	4.063M

Max-N dB = Maximum 6dB down bandwidth for 5.725-5.85GHz band / Maximum 26dB down bandwidth for other band;
Max-OBW = Maximum 99% occupied bandwidth;
Min-N dB = Minimum 6dB down bandwidth for 5.725-5.85GHz band / Maximum 26dB down bandwidth for other band;
Min-OBW = Minimum 99% occupied bandwidth

Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)	Port 3-N dB (Hz)	Port 3-OBW (Hz)	Port 4-N dB (Hz)	Port 4-OBW (Hz)
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	Inf	24.84M	19.01M	25.53M	19.04M	24.81M	19.04M	25.02M	18.981M
5200MHz	Pass	Inf	25.08M	19.04M	23.61M	19.01M	24.06M	19.01M	23.82M	18.981M
5240MHz	Pass	Inf	25.2M	19.04M	24.6M	19.04M	24.42M	18.981M	24.87M	19.01M
5260MHz	Pass	Inf	24.03M	19.16M	24.87M	19.04M	36.18M	19.1M	26.91M	19.13M
5300MHz	Pass	Inf	23.94M	19.07M	25.05M	19.01M	25.53M	19.04M	25.26M	19.19M
5320MHz	Pass	Inf	23.88M	19.04M	24.48M	19.04M	25.08M	19.16M	27.96M	19.04M
5500MHz	Pass	Inf	23.13M	19.04M	23.82M	18.981M	24.12M	18.951M	23.7M	19.13M
5580MHz	Pass	Inf	23.46M	19.01M	23.64M	19.04M	24.45M	18.921M	24.39M	19.22M
5700MHz	Pass	Inf	23.82M	18.951M	24.54M	19.01M	23.52M	19.07M	24.93M	19.13M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	16.748M	14.636M	16.665M	14.526M	16.995M	14.554M	17.311M	14.513M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	4.53M	4.678M	4.56M	4.663M	4.395M	4.618M	4.305M	4.693M
5745MHz	Pass	500k	18.6M	31.664M	18.96M	33.223M	18.9M	23.868M	17.7M	34.813M
5785MHz	Pass	500k	18.63M	32.864M	18.84M	32.954M	18.84M	22.069M	18.3M	34.843M
5825MHz	Pass	500k	18.99M	33.043M	18.87M	29.235M	18.72M	21.289M	17.07M	32.564M
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	Inf	42.36M	38.081M	42.24M	38.021M	42.36M	37.961M	42.6M	37.961M
5230MHz	Pass	Inf	42.6M	38.021M	42.24M	38.201M	42.72M	37.961M	42.24M	38.021M
5270MHz	Pass	Inf	43.62M	37.961M	42.24M	37.961M	60.24M	38.021M	44.04M	38.141M
5310MHz	Pass	Inf	42.72M	38.141M	42.48M	37.961M	42.96M	37.961M	45.48M	38.081M
5510MHz	Pass	Inf	43.2M	38.021M	41.76M	37.841M	42.72M	37.661M	42.36M	38.381M
5550MHz	Pass	Inf	42.78M	38.021M	42.54M	38.021M	45.9M	38.081M	43.14M	38.021M
5670MHz	Pass	Inf	42.84M	38.141M	43.44M	38.141M	44.58M	37.961M	44.64M	38.021M
5710MHz Straddle 5.47-5.725GHz	Pass	Inf	37.26M	33.902M	36.821M	33.969M	37.058M	33.632M	37.699M	34.104M
5710MHz Straddle 5.725-5.85GHz	Pass	500k	3.84M	4.093M	3.99M	4.123M	3.285M	4.093M	4.005M	4.213M
5755MHz	Pass	500k	36.36M	55.412M	37.56M	61.529M	37.08M	42.939M	36.48M	60.39M
5795MHz	Pass	500k	37.14M	61.469M	32.82M	48.936M	34.98M	44.558M	31.98M	56.492M
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	Inf	81.6M	77.721M	81.36M	77.601M	81.24M	77.481M	81.84M	77.721M
5290MHz	Pass	Inf	83.4M	77.361M	81.36M	77.841M	81.96M	77.241M	82.92M	77.961M
5530MHz	Pass	Inf	83.52M	77.481M	82.2M	77.601M	80.64M	77.361M	80.88M	77.721M
5610MHz	Pass	Inf	82.56M	77.121M	81.84M	77.841M	83.64M	77.481M	81M	77.841M
5690MHz Straddle 5.47-5.725GHz	Pass	Inf	77.806M	73.05M	77.88M	73.566M	75.373M	73.345M	75.373M	73.639M
5690MHz Straddle 5.725-5.85GHz	Pass	500k	3.585M	4.153M	3.87M	4.063M	2.97M	4.108M	3.855M	4.123M
5775MHz	Pass	500k	23.64M	80.36M	75.36M	79.52M	67.56M	77.481M	71.16M	98.231M

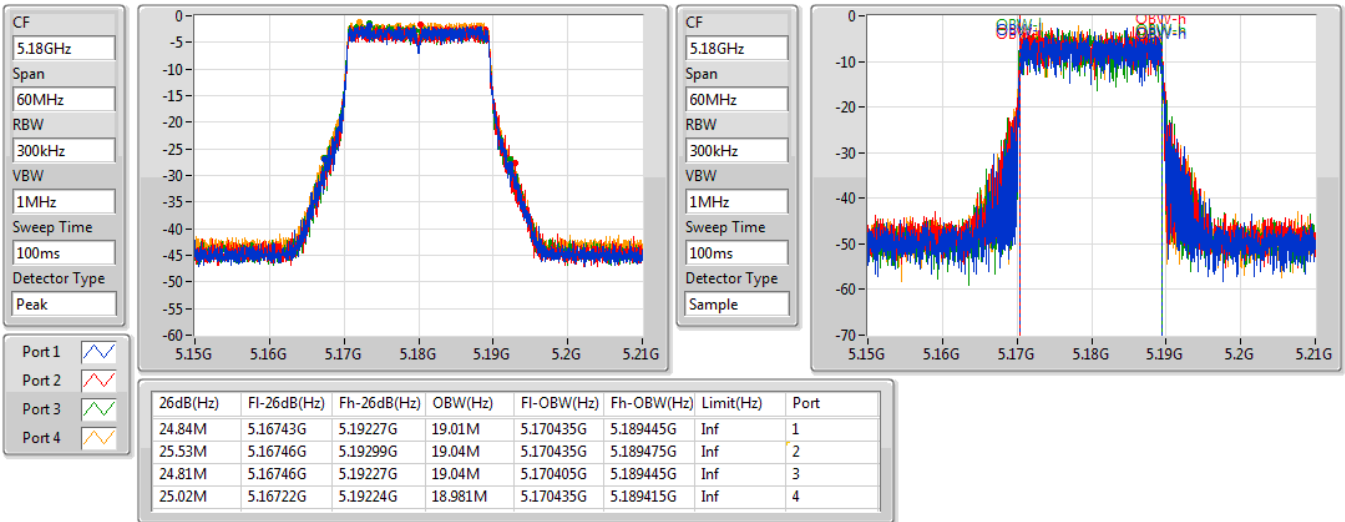
Port X-N dB = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band
Port X-OBW = Port X 99% occupied bandwidth

802.11ax HEW20-BF_Nss1,(MCS0)_4TX

EBW

5180MHz

16/07/2021

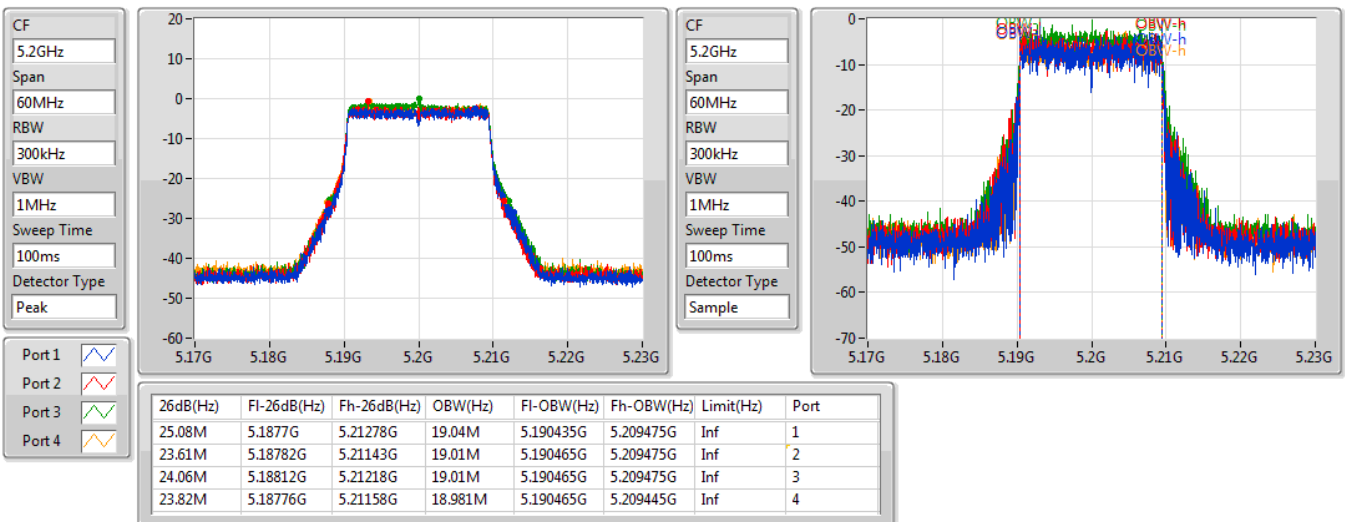


802.11ax HEW20-BF_Nss1,(MCS0)_4TX

EBW

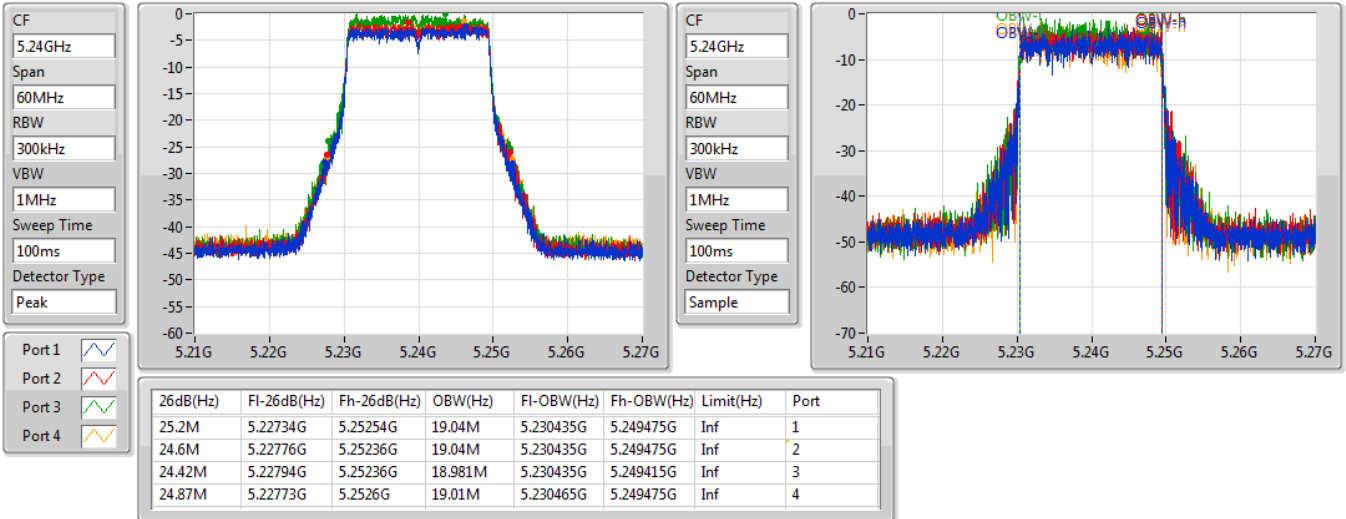
5200MHz

16/07/2021

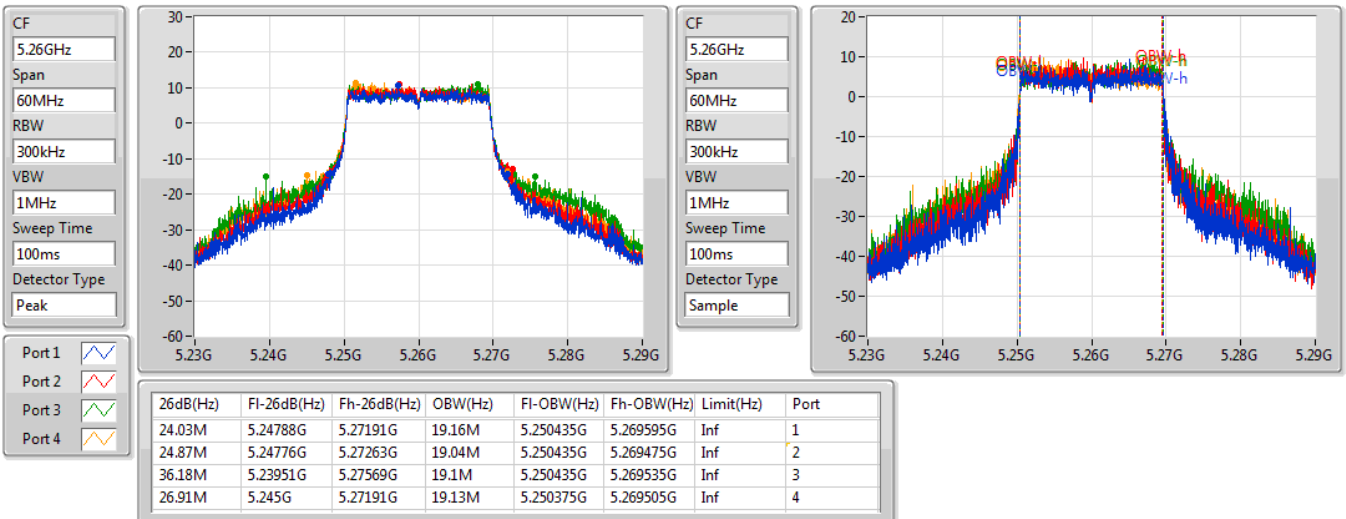


802.11ax HEW20-BF_Nss1,(MCS0)_4TX
EBW
5240MHz

16/07/2021


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

18/03/2021

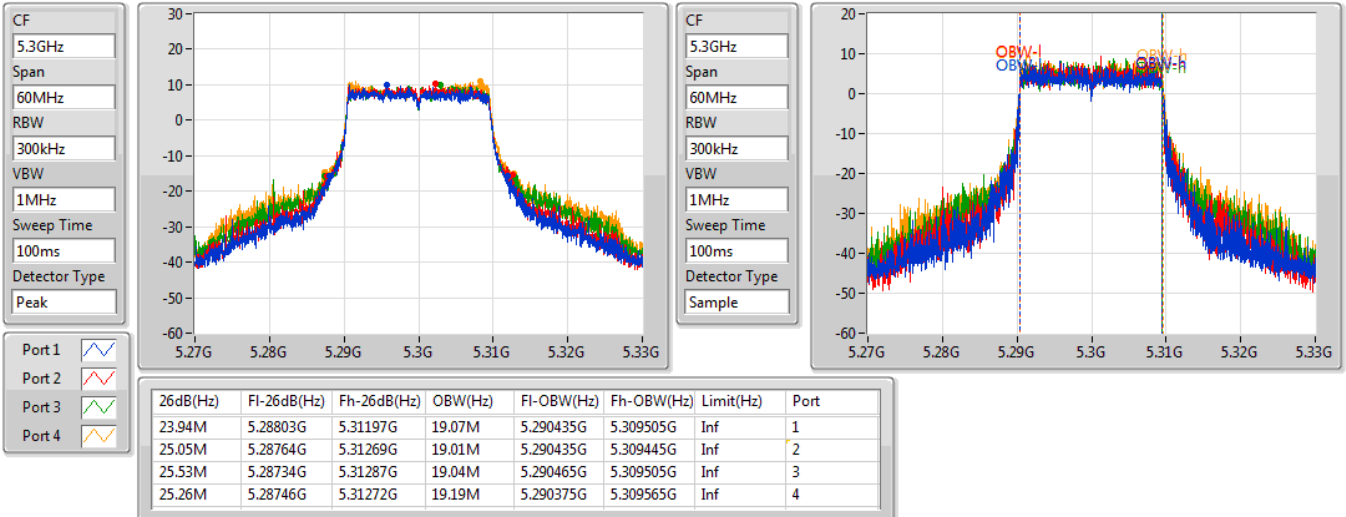


802.11ax HEW20-BF_Nss1,(MCS0)_4TX

EBW

5300MHz

18/03/2021

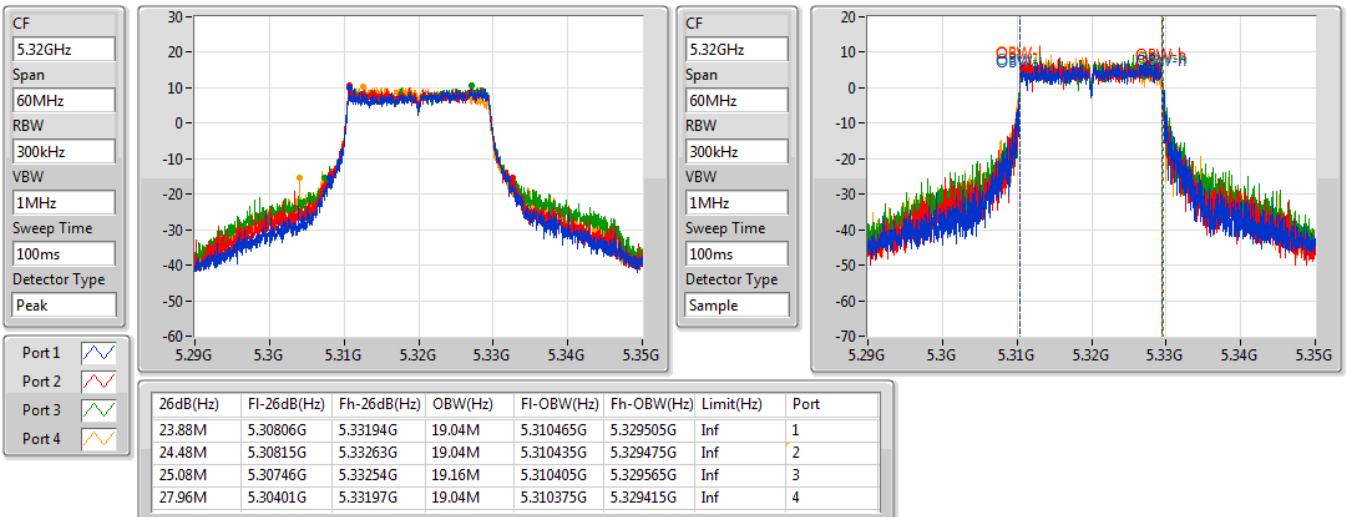


802.11ax HEW20-BF_Nss1,(MCS0)_4TX

EBW

5320MHz

18/03/2021

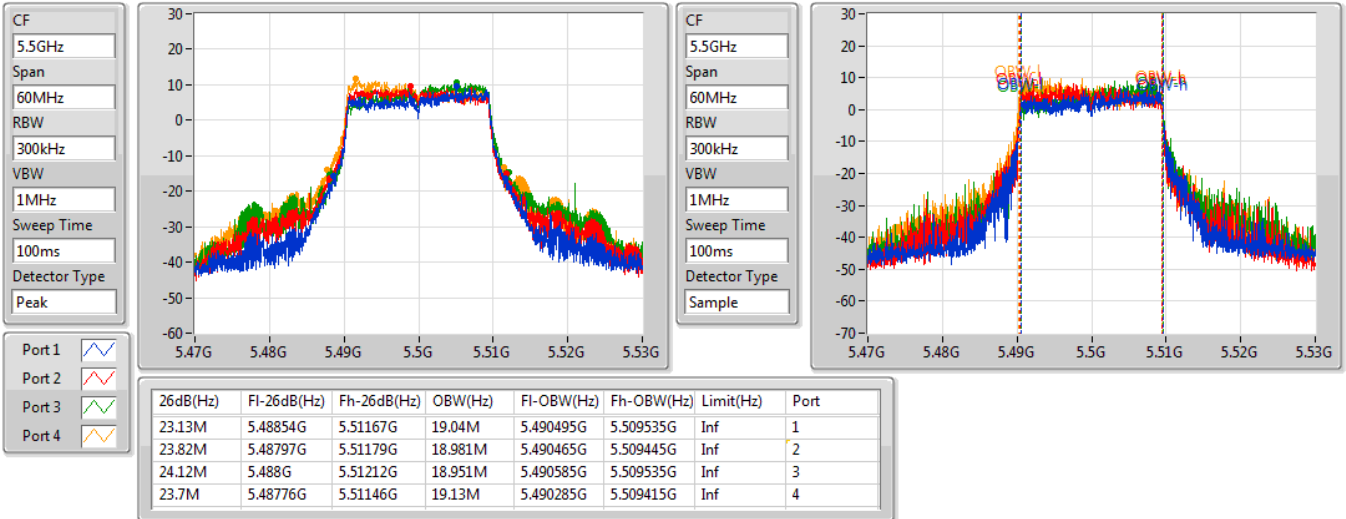


802.11ax HEW20-BF_Nss1,(MCS0)_4TX

EBW

5500MHz

19/03/2021

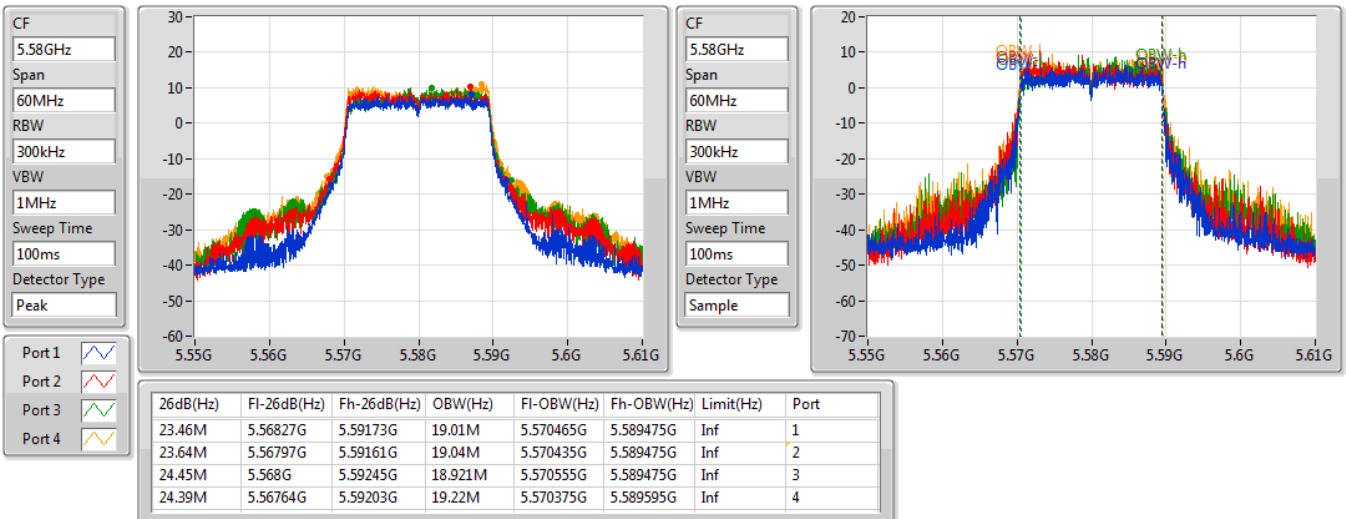


802.11ax HEW20-BF_Nss1,(MCS0)_4TX

EBW

5580MHz

19/03/2021

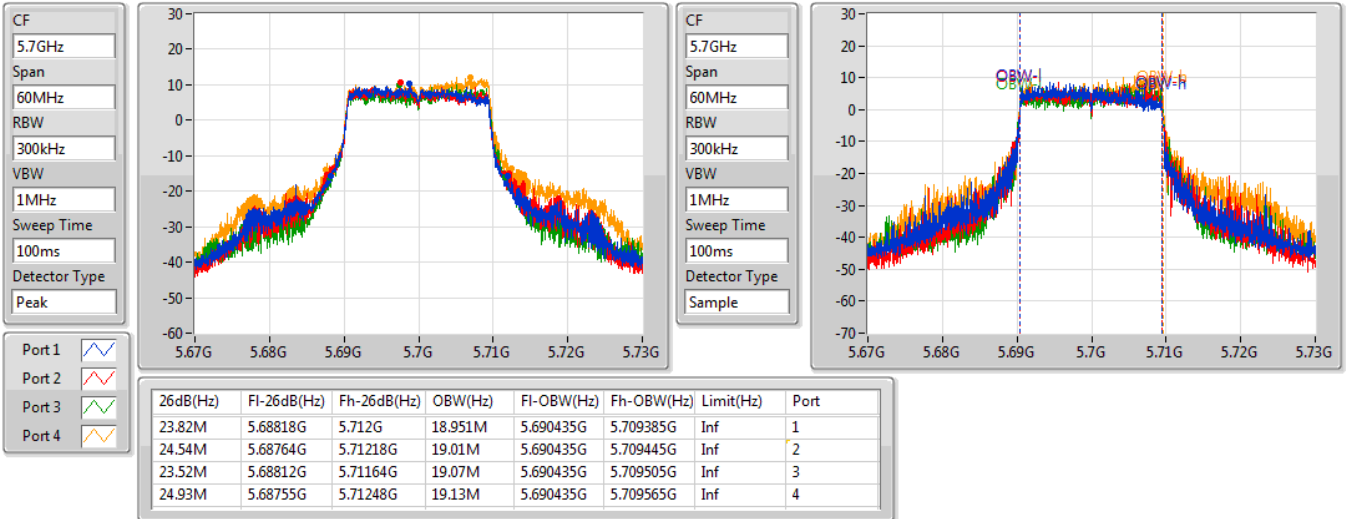


802.11ax HEW20-BF_Nss1,(MCS0)_4TX

EBW

5700MHz

19/03/2021

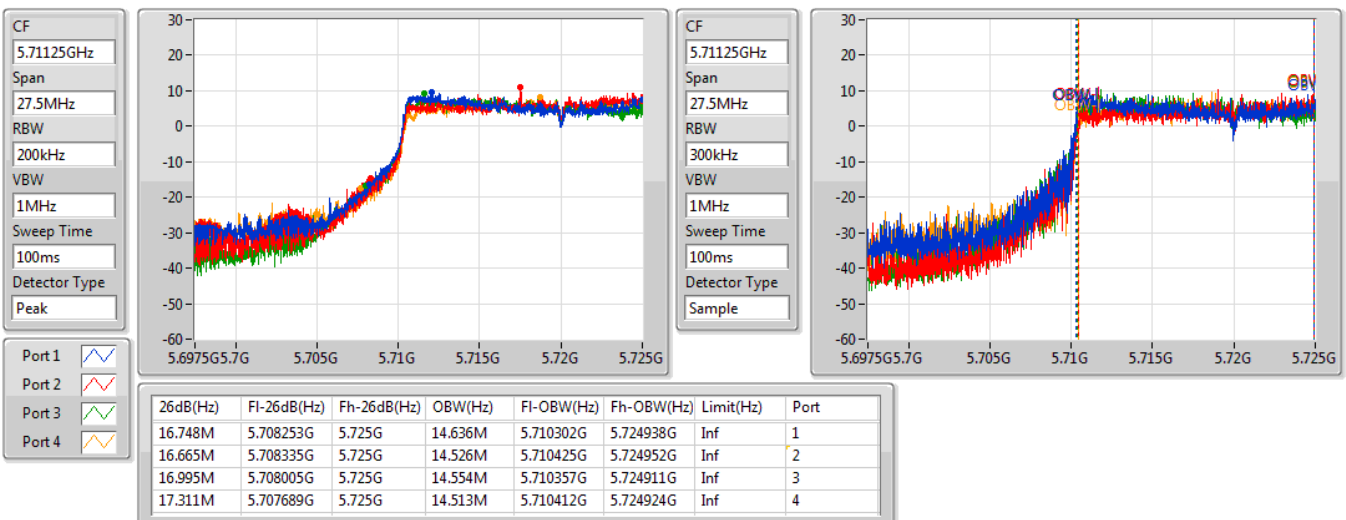


802.11ax HEW20-BF_Nss1,(MCS0)_4TX

EBW

5720MHz Straddle 5.47-5.725GHz

19/03/2021

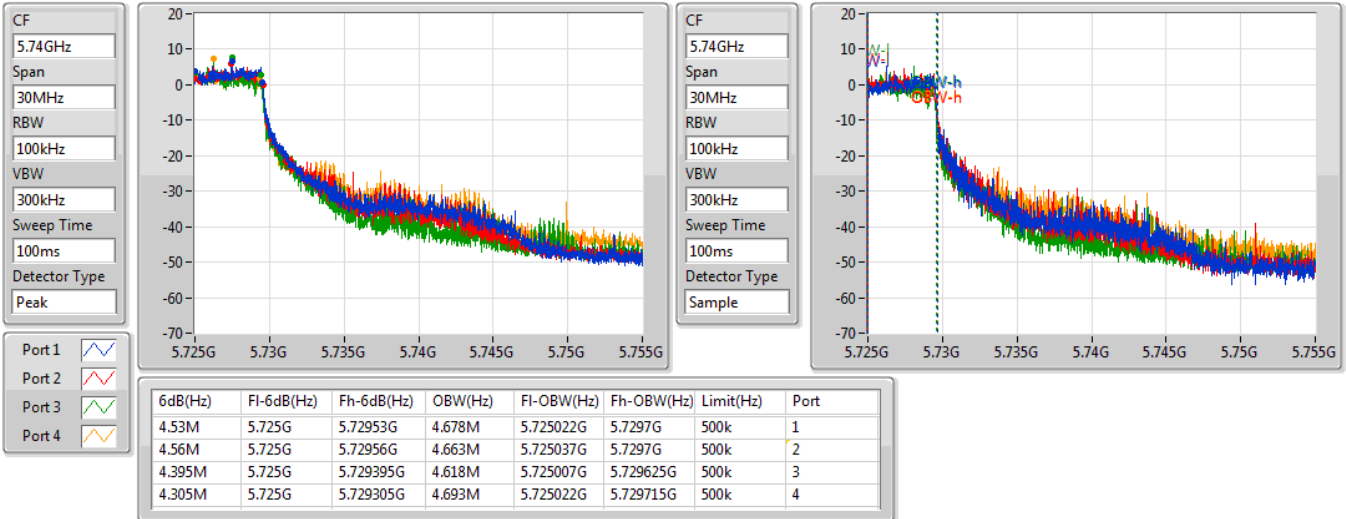


802.11ax HEW20-BF_Nss1,(MCS0)_4TX

EBW

5720MHz Straddle 5.725-5.85GHz

19/03/2021

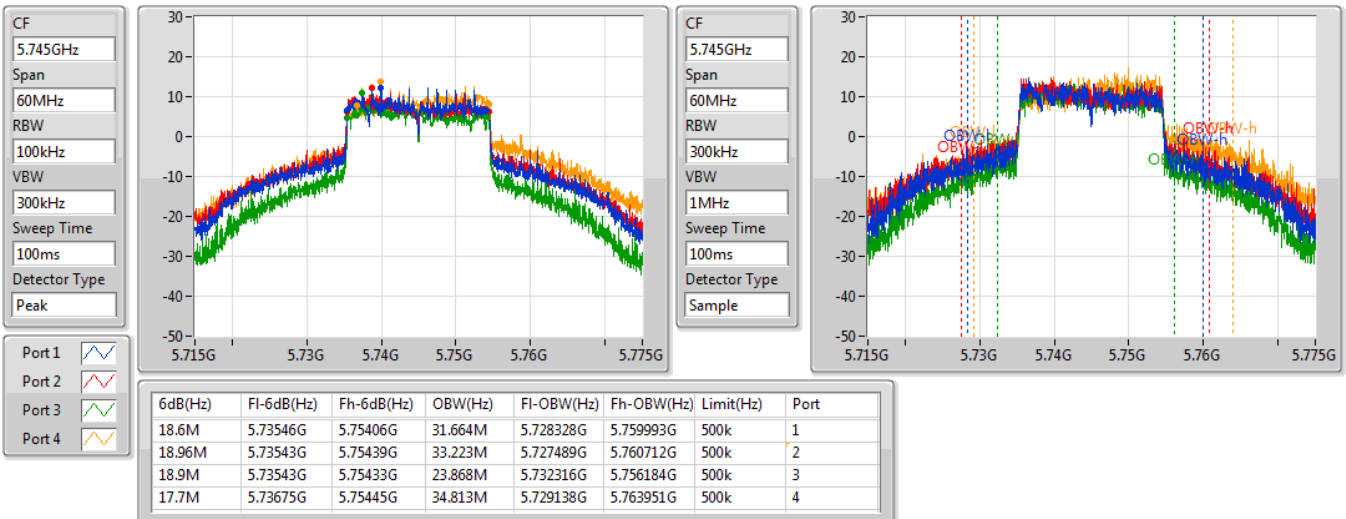


802.11ax HEW20-BF_Nss1,(MCS0)_4TX

EBW

5745MHz

19/03/2021

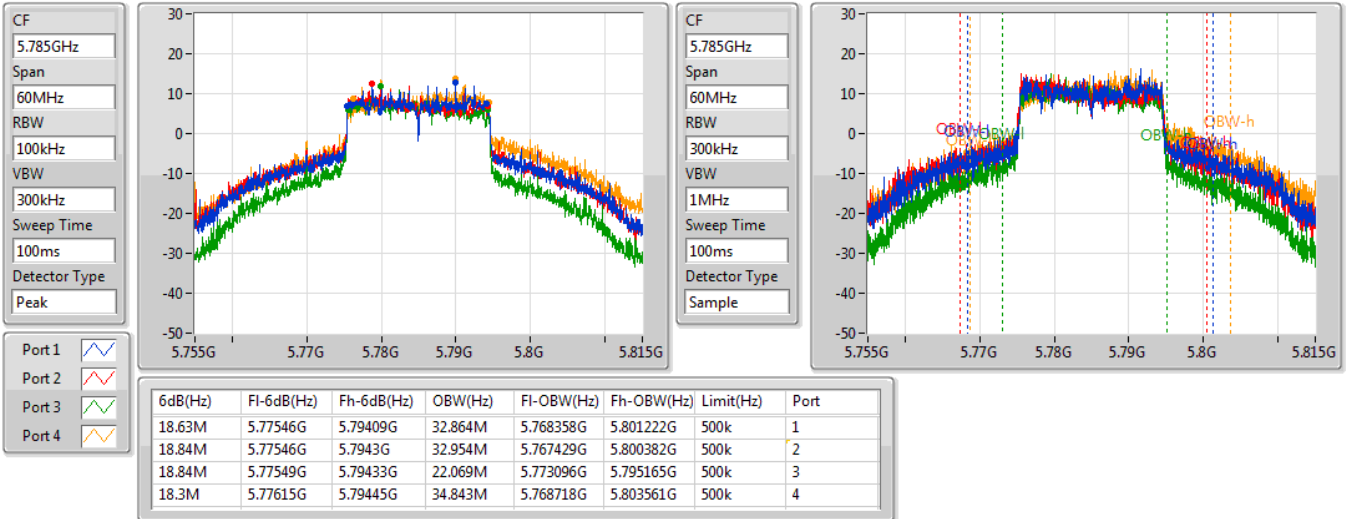


802.11ax HEW20-BF_Nss1,(MCS0)_4TX

EBW

5785MHz

19/03/2021

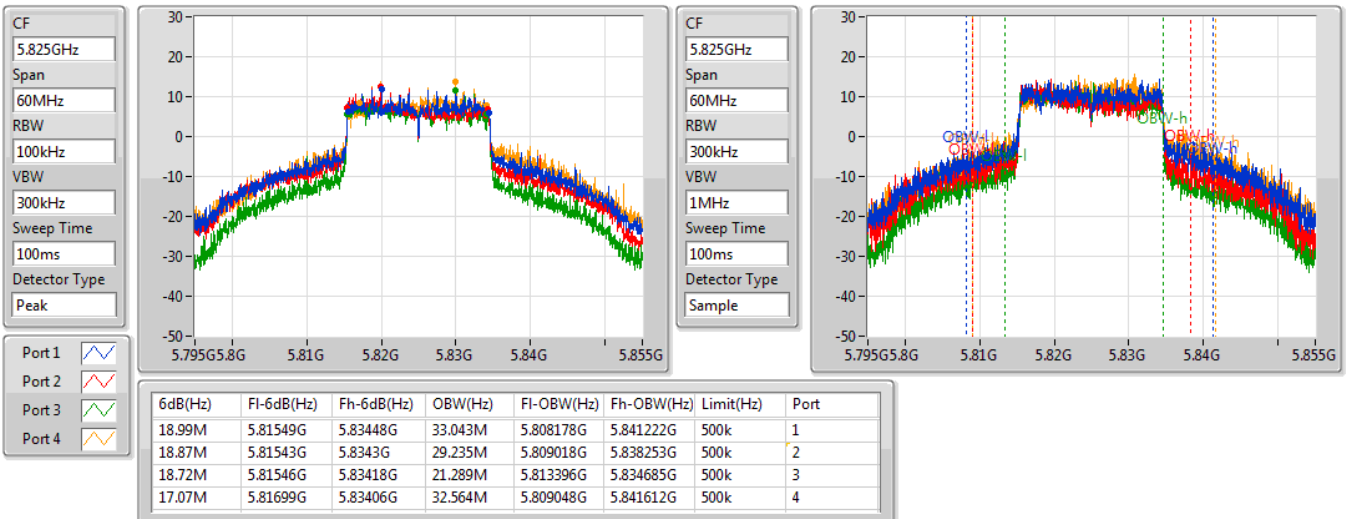


802.11ax HEW20-BF_Nss1,(MCS0)_4TX

EBW

5825MHz

19/03/2021

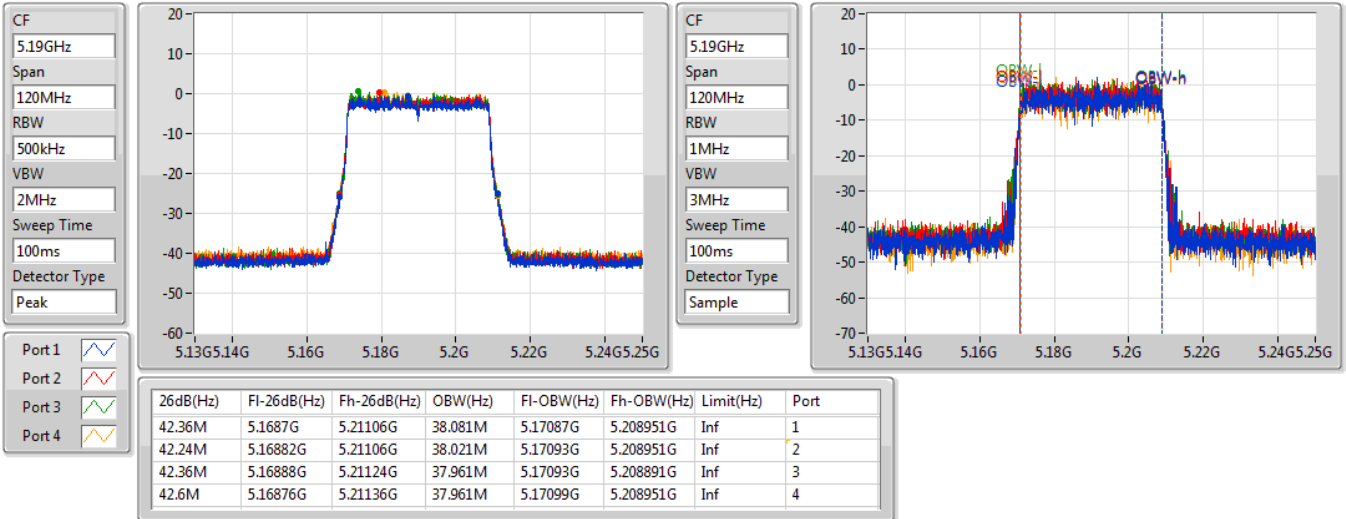


802.11ax HEW40-BF_Nss1,(MCS0)_4TX

EBW

5190MHz

16/07/2021

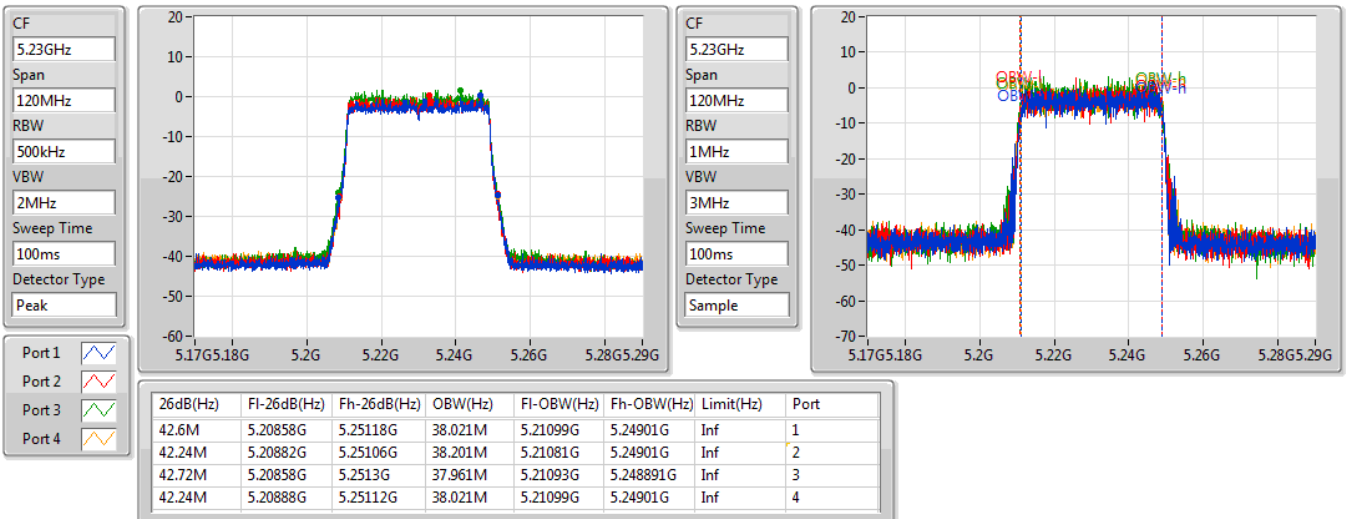


802.11ax HEW40-BF_Nss1,(MCS0)_4TX

EBW

5230MHz

16/07/2021

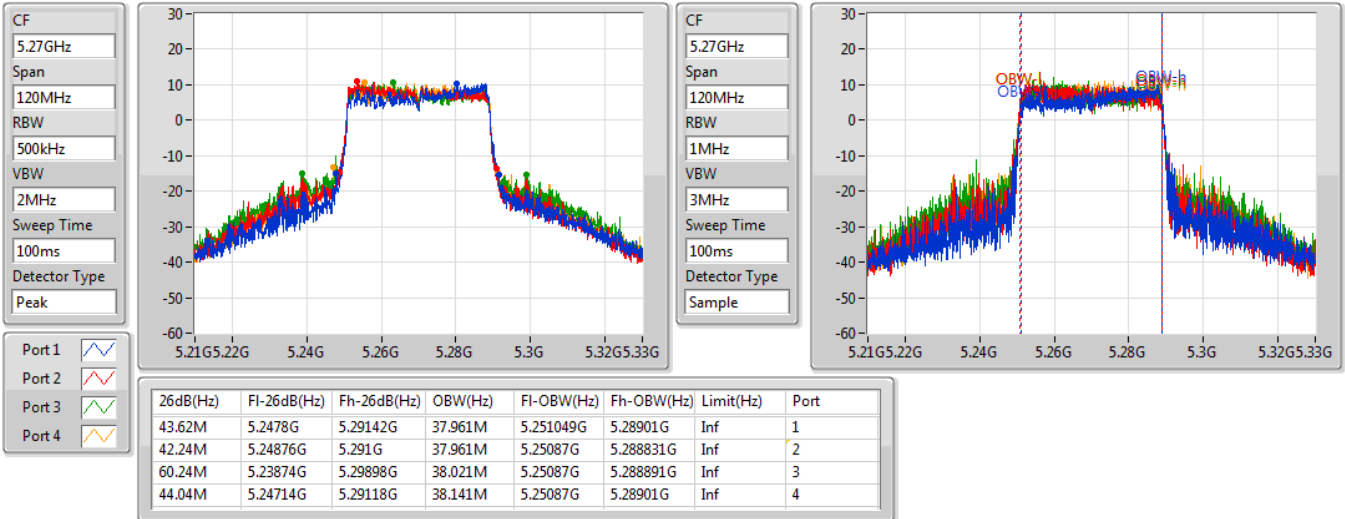


802.11ax HEW40-BF_Nss1,(MCS0)_4TX

EBW

5270MHz

19/03/2021

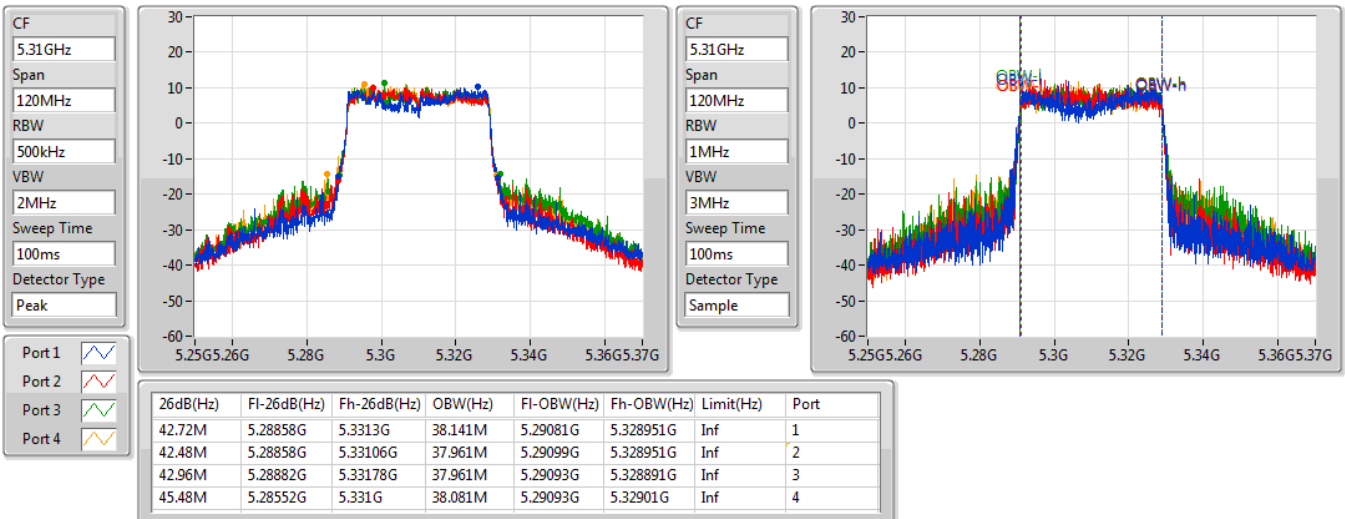


802.11ax HEW40-BF_Nss1,(MCS0)_4TX

EBW

5310MHz

19/03/2021

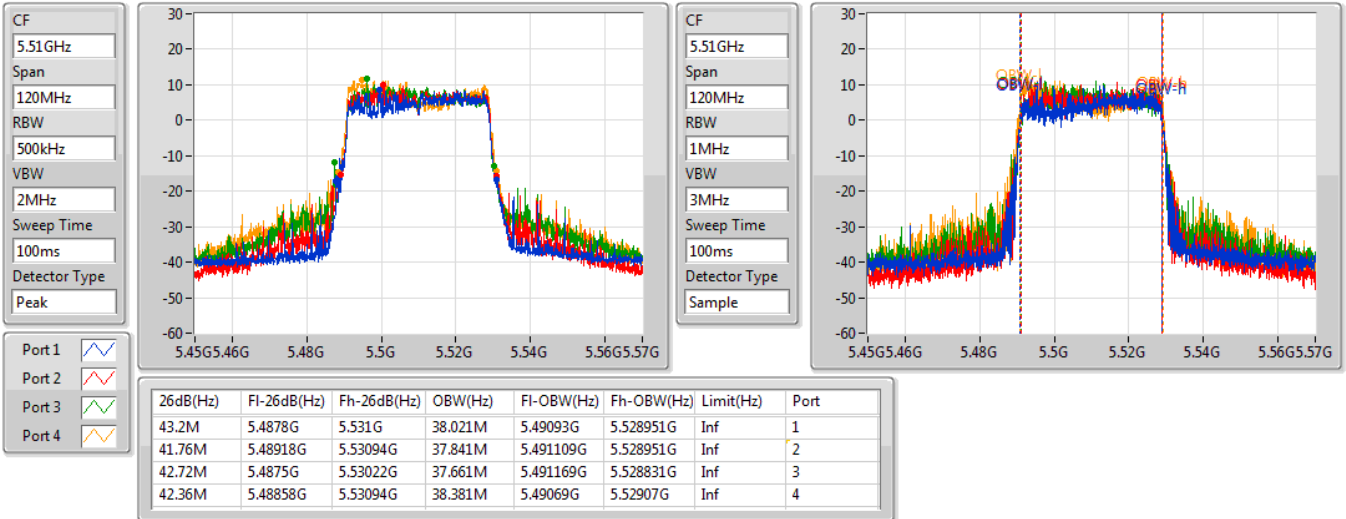


802.11ax HEW40-BF_Nss1,(MCS0)_4TX

EBW

5510MHz

19/03/2021

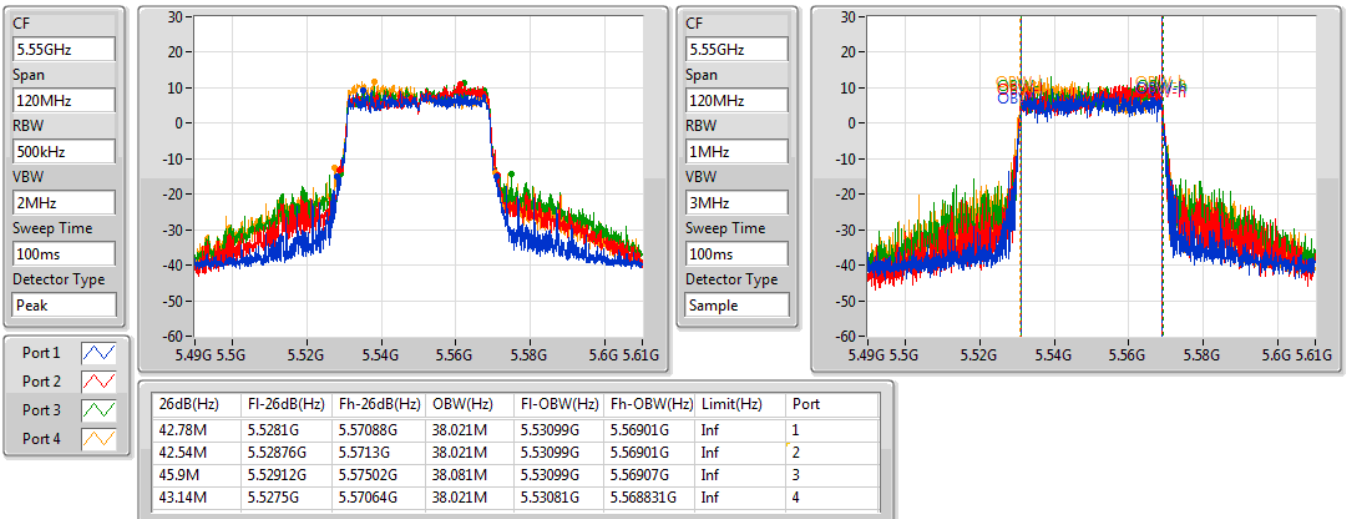


802.11ax HEW40-BF_Nss1,(MCS0)_4TX

EBW

5550MHz

19/03/2021

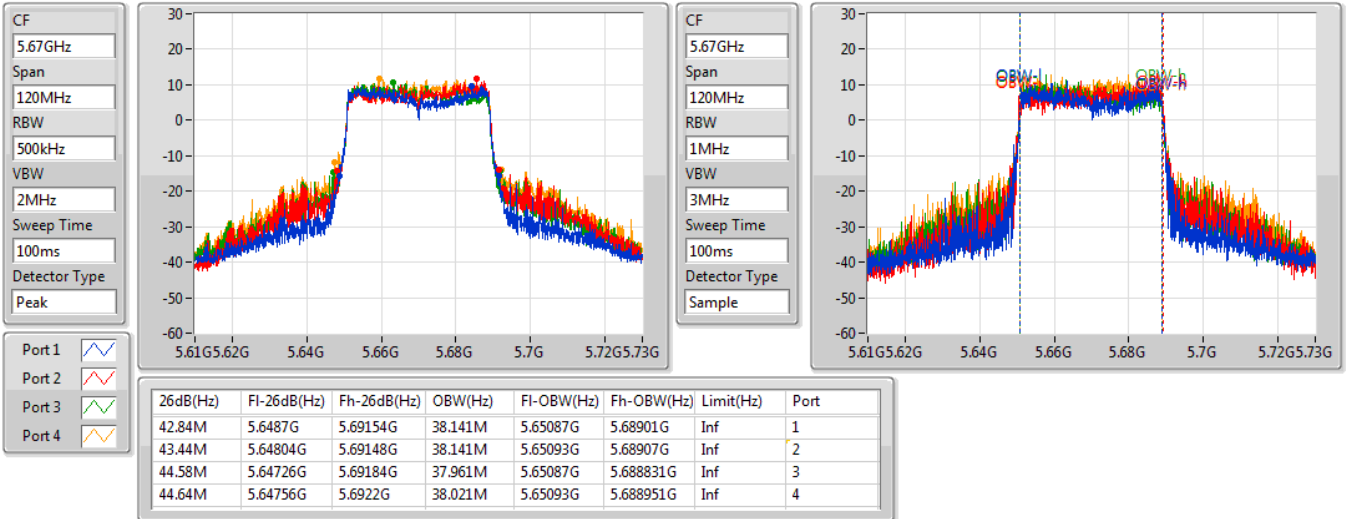


802.11ax HEW40-BF_Nss1,(MCS0)_4TX

EBW

5670MHz

19/03/2021

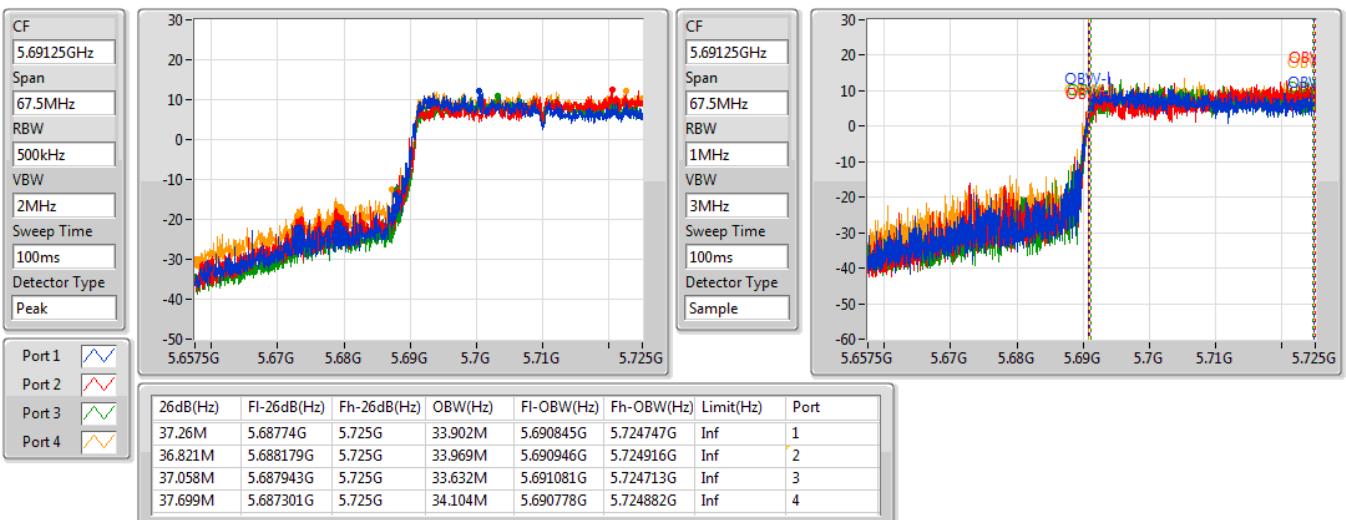


802.11ax HEW40-BF_Nss1,(MCS0)_4TX

EBW

5710MHz Straddle 5.47-5.725GHz

19/03/2021

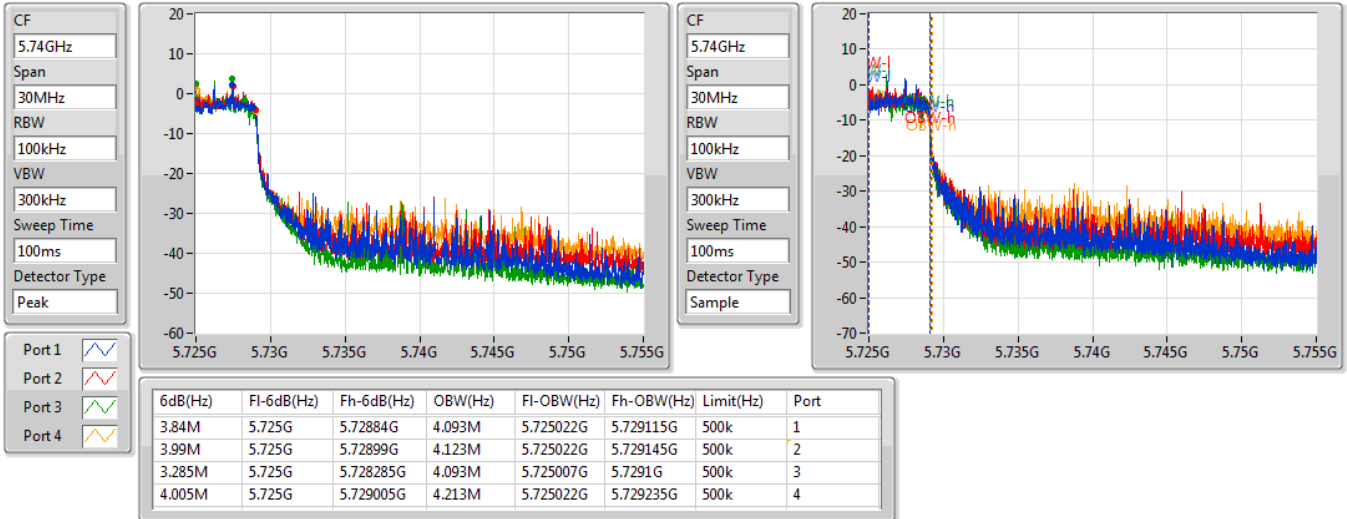


802.11ax HEW40-BF_Nss1,(MCS0)_4TX

EBW

5710MHz Straddle 5.725-5.85GHz

19/03/2021

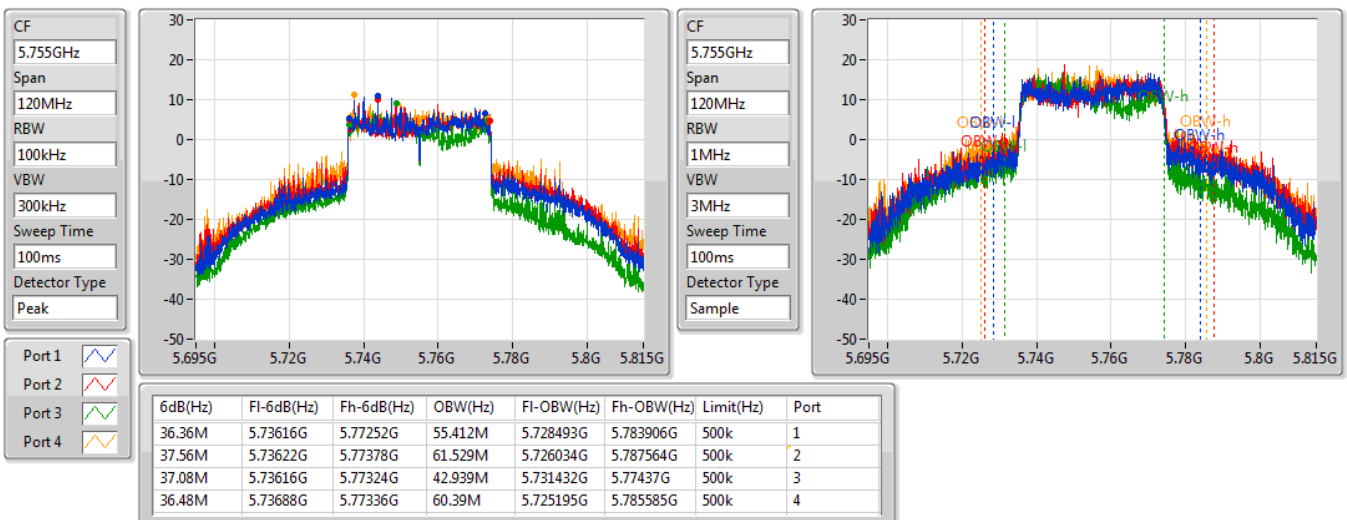


802.11ax HEW40-BF_Nss1,(MCS0)_4TX

EBW

5755MHz

19/03/2021

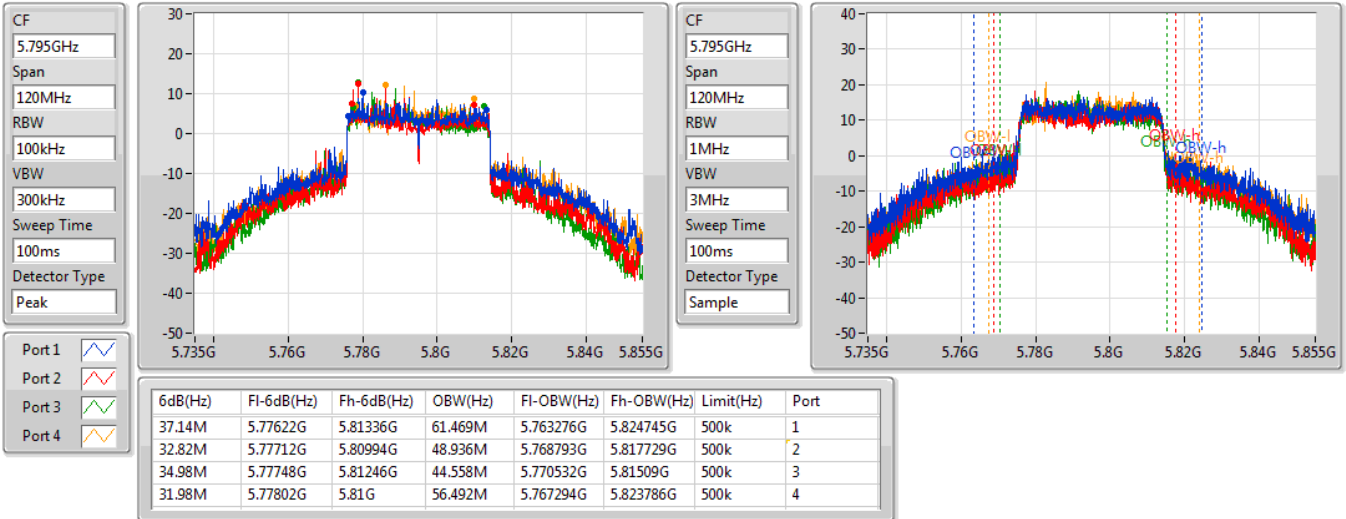


802.11ax HEW40-BF_Nss1,(MCS0)_4TX

EBW

5795MHz

19/03/2021

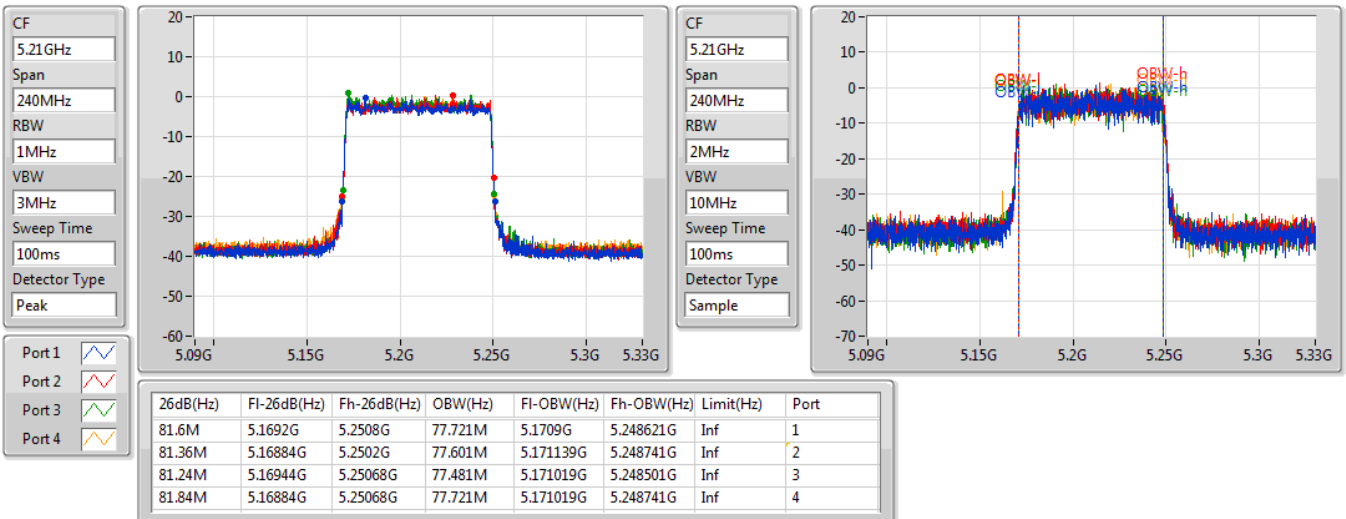


802.11ax HEW80-BF_Nss1,(MCS0)_4TX

EBW

5210MHz

16/07/2021

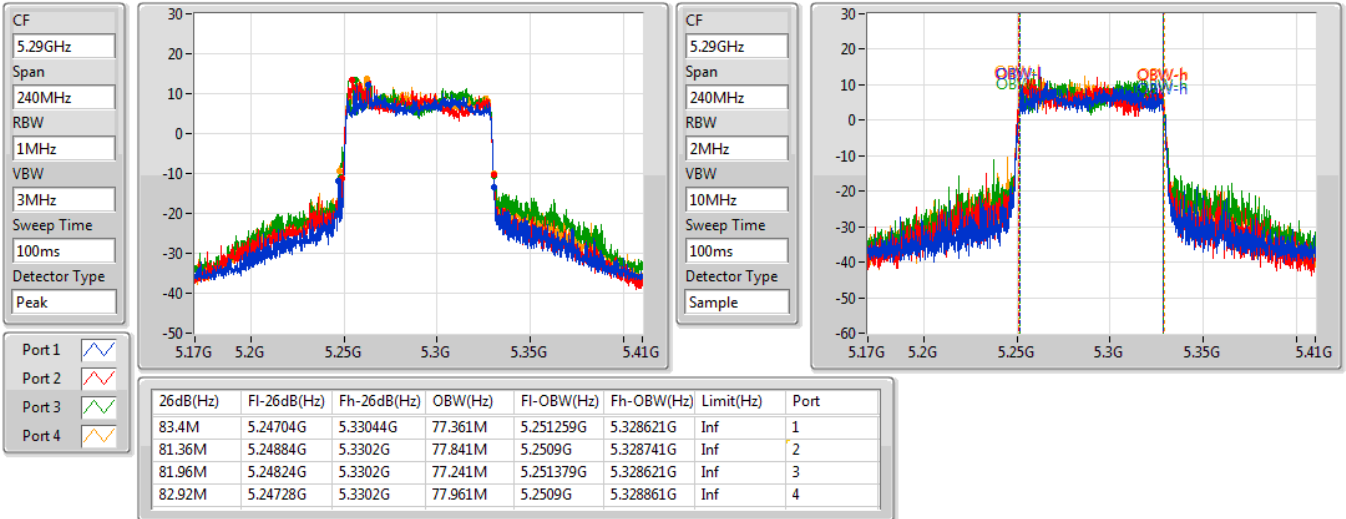


802.11ax HEW80-BF_Nss1,(MCS0)_4TX

EBW

5290MHz

19/03/2021

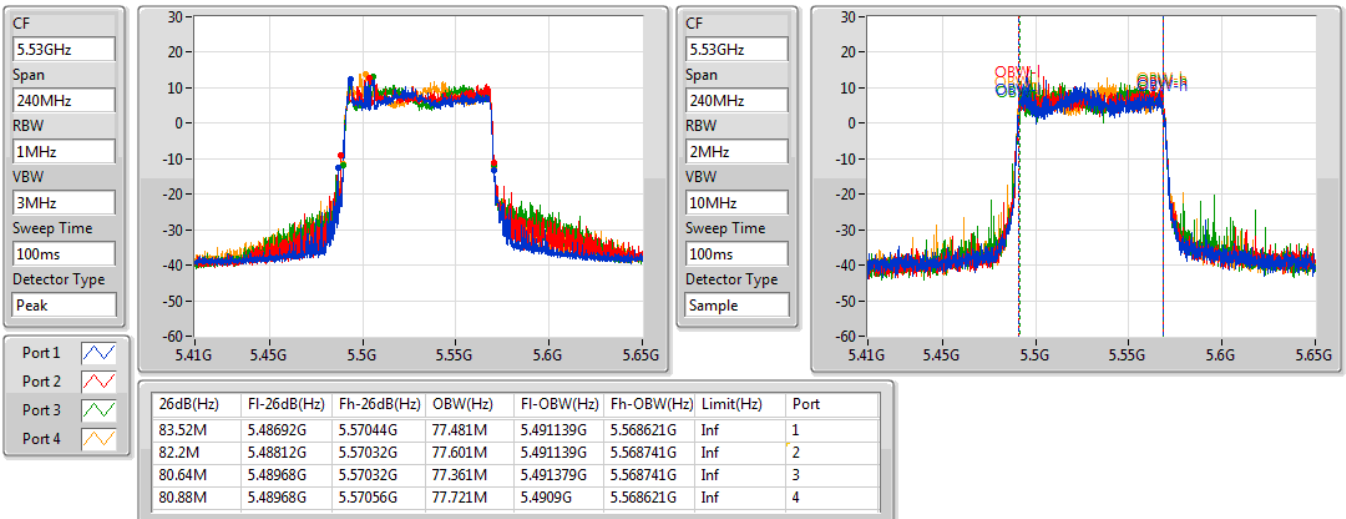


802.11ax HEW80-BF_Nss1,(MCS0)_4TX

EBW

5530MHz

19/03/2021

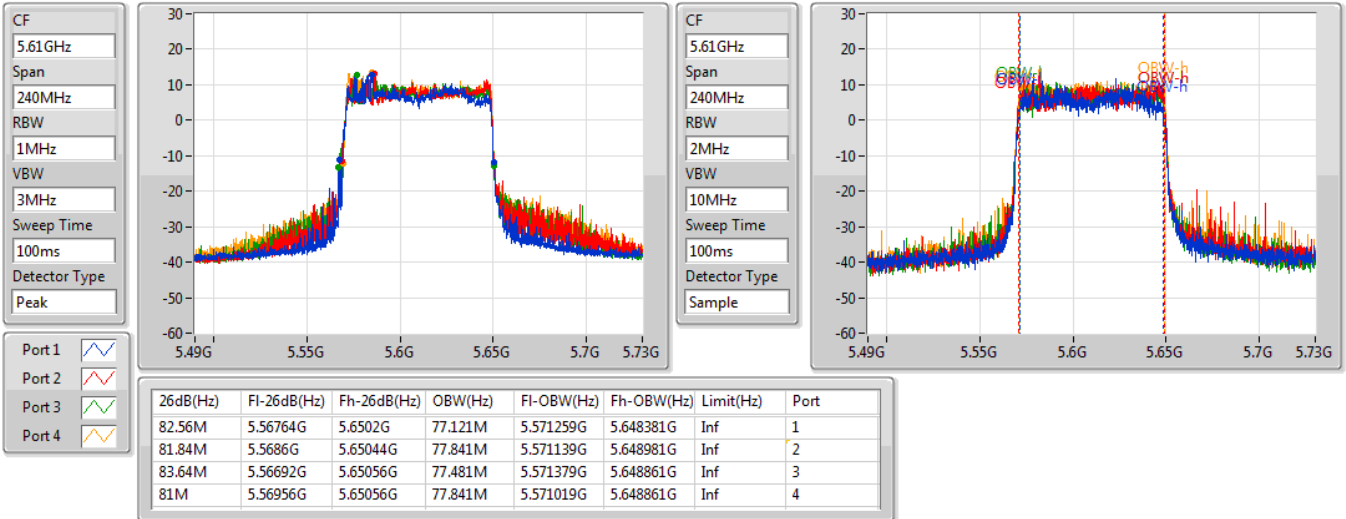


802.11ax HEW80-BF_Nss1,(MCS0)_4TX

EBW

5610MHz

19/03/2021

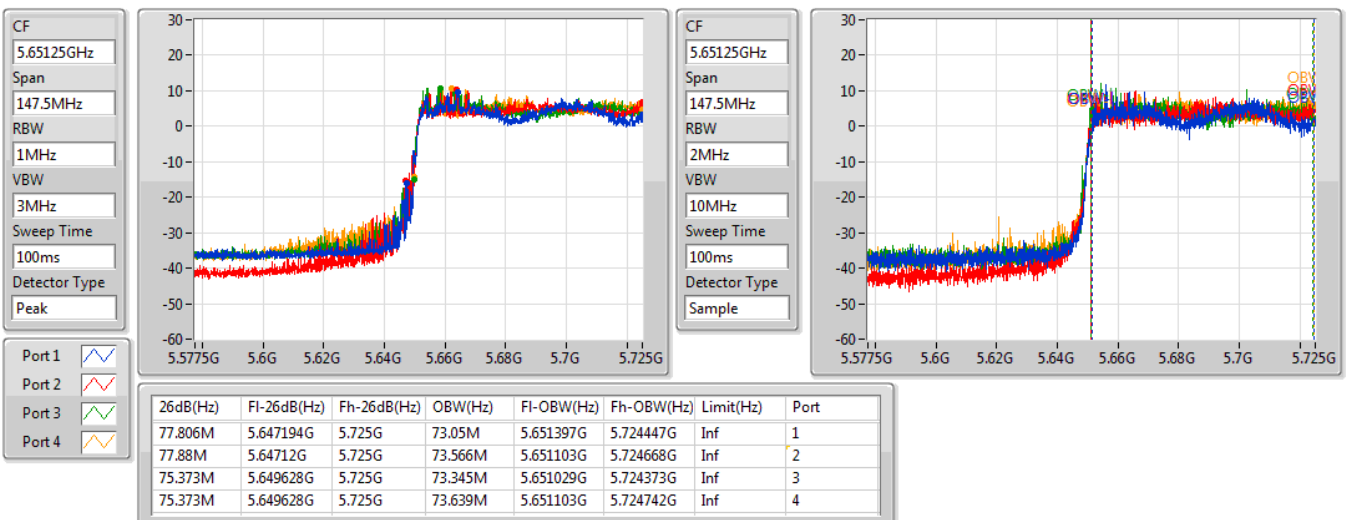


802.11ax HEW80-BF_Nss1,(MCS0)_4TX

EBW

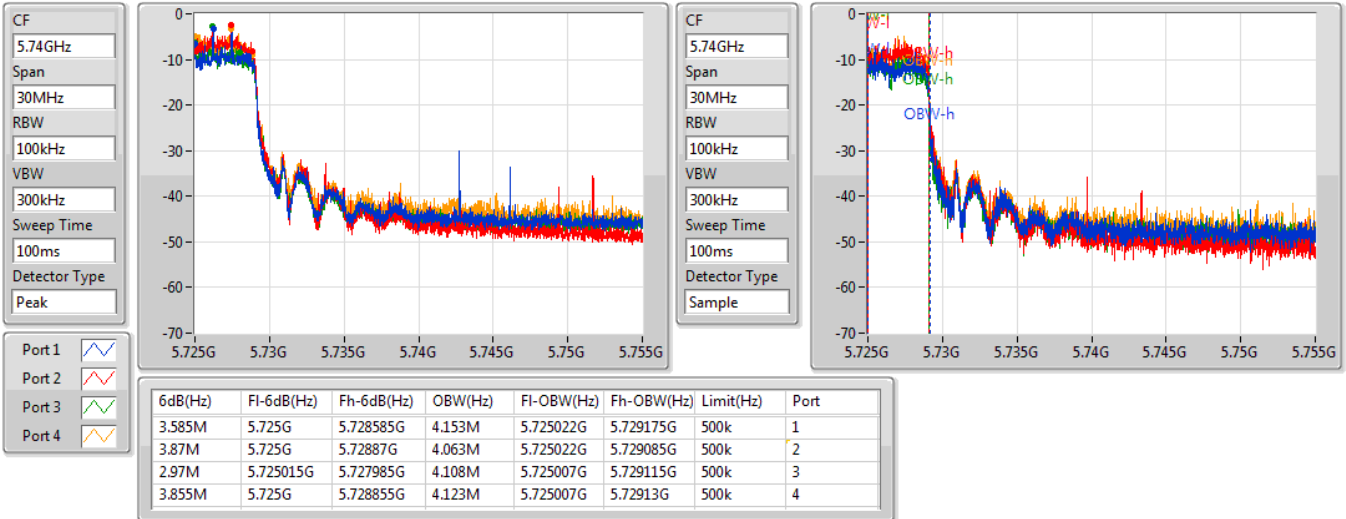
5690MHz Straddle 5.47-5.725GHz

19/03/2021

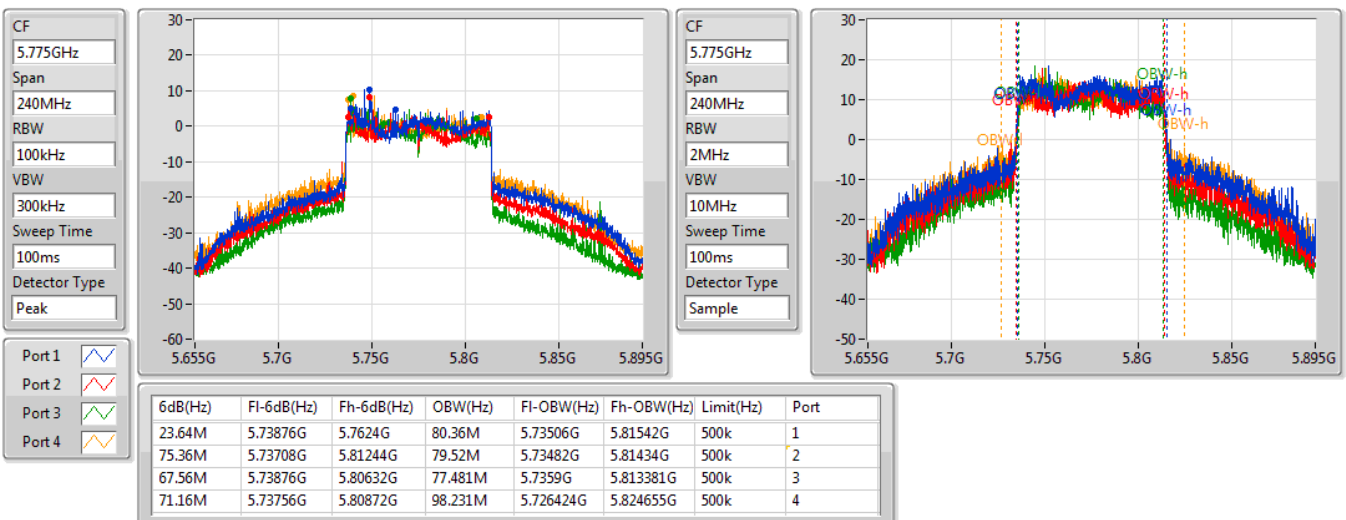


802.11ax HEW80-BF_Nss1,(MCS0)_4TX
EBW
5690MHz Straddle 5.725-5.85GHz

19/03/2021


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

19/03/2021



**Summary**

Mode	Total Power (dBm)	Total Power (W)	EIRP (dBm)	EIRP (W)
5.15-5.25GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	20.41	0.10990	20.91	0.12331
802.11ax HEW20_Nss1,(MCS0)_1TX	20.37	0.10889	20.87	0.12218
802.11ax HEW40_Nss1,(MCS0)_1TX	20.42	0.11015	20.92	0.12359
802.11ax HEW80_Nss1,(MCS0)_1TX	20.27	0.10641	20.77	0.11940
5.25-5.35GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	23.92	0.24660	24.42	0.27669
802.11ax HEW20_Nss1,(MCS0)_1TX	23.97	0.24946	24.47	0.27990
802.11ax HEW40_Nss1,(MCS0)_1TX	23.65	0.23174	24.15	0.26002
802.11ax HEW80_Nss1,(MCS0)_1TX	21.39	0.13772	21.89	0.15453
5.47-5.725GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	23.85	0.24266	24.35	0.27227
802.11ax HEW20_Nss1,(MCS0)_1TX	23.97	0.24946	24.47	0.27990
802.11ax HEW40_Nss1,(MCS0)_1TX	23.92	0.24660	24.42	0.27669
802.11ax HEW80_Nss1,(MCS0)_1TX	23.91	0.24604	24.41	0.27606
5.725-5.85GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	24.24	0.26546	24.74	0.29785
802.11ax HEW20_Nss1,(MCS0)_1TX	24.85	0.30549	25.35	0.34277
802.11ax HEW40_Nss1,(MCS0)_1TX	26.08	0.40551	26.58	0.45499
802.11ax HEW80_Nss1,(MCS0)_1TX	24.17	0.26122	24.67	0.29309

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
802.11a_Nss1,(6Mbps)_1TX	-	-	-	-	-	-	-
5180MHz	Pass	0.50	20.41	20.41	30.00	20.91	36.00
5200MHz	Pass	0.50	20.27	20.27	30.00	20.77	36.00
5240MHz	Pass	0.50	20.30	20.30	30.00	20.80	36.00
5260MHz	Pass	0.50	23.84	23.84	23.98	24.34	30.00
5300MHz	Pass	0.50	23.77	23.77	23.98	24.27	30.00
5320MHz	Pass	0.50	23.92	23.92	23.98	24.42	30.00
5500MHz	Pass	0.50	23.85	23.85	23.98	24.35	30.00
5580MHz	Pass	0.50	23.32	23.32	23.98	23.82	30.00
5700MHz	Pass	0.50	22.38	22.38	23.98	22.88	30.00
5720MHz Straddle 5.47-5.725GHz	Pass	0.50	22.69	22.69	23.98	23.19	30.00
5720MHz Straddle 5.725-5.85GHz	Pass	0.50	16.84	16.84	30.00	17.34	36.00
5745MHz	Pass	0.50	24.24	24.24	30.00	24.74	36.00
5785MHz	Pass	0.50	24.04	24.04	30.00	24.54	36.00
5825MHz	Pass	0.50	23.97	23.97	30.00	24.47	36.00
802.11ax HEW20_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-
5180MHz	Pass	0.50	20.16	20.16	30.00	20.66	36.00
5200MHz	Pass	0.50	20.37	20.37	30.00	20.87	36.00
5240MHz	Pass	0.50	20.32	20.32	30.00	20.82	36.00
5260MHz	Pass	0.50	23.89	23.89	23.98	24.39	30.00
5300MHz	Pass	0.50	23.97	23.97	23.98	24.47	30.00
5320MHz	Pass	0.50	23.72	23.72	23.98	24.22	30.00
5500MHz	Pass	0.50	23.97	23.97	23.98	24.47	30.00
5580MHz	Pass	0.50	23.80	23.80	23.98	24.30	30.00
5700MHz	Pass	0.50	20.81	20.81	23.98	21.31	30.00
5720MHz Straddle 5.47-5.725GHz	Pass	0.50	22.76	22.76	23.98	23.26	30.00
5720MHz Straddle 5.725-5.85GHz	Pass	0.50	17.94	17.94	30.00	18.44	36.00
5745MHz	Pass	0.50	24.82	24.82	30.00	25.32	36.00
5785MHz	Pass	0.50	24.85	24.85	30.00	25.35	36.00
5825MHz	Pass	0.50	24.76	24.76	30.00	25.26	36.00
802.11ax HEW40_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-
5190MHz	Pass	0.50	20.41	20.41	30.00	20.91	36.00
5230MHz	Pass	0.50	20.42	20.42	30.00	20.92	36.00
5270MHz	Pass	0.50	23.65	23.65	23.98	24.15	30.00
5310MHz	Pass	0.50	21.98	21.98	23.98	22.48	30.00
5510MHz	Pass	0.50	20.55	20.55	23.98	21.05	30.00
5550MHz	Pass	0.50	23.71	23.71	23.98	24.21	30.00
5670MHz	Pass	0.50	22.99	22.99	23.98	23.49	30.00
5710MHz Straddle 5.47-5.725GHz	Pass	0.50	23.92	23.92	23.98	24.42	30.00
5710MHz Straddle 5.725-5.85GHz	Pass	0.50	14.95	14.95	30.00	15.45	36.00
5755MHz	Pass	0.50	26.08	26.08	30.00	26.58	36.00
5795MHz	Pass	0.50	25.93	25.93	30.00	26.43	36.00
802.11ax HEW80_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-
5210MHz	Pass	0.50	20.27	20.27	30.00	20.77	36.00
5290MHz	Pass	0.50	21.39	21.39	23.98	21.89	30.00
5530MHz	Pass	0.50	22.45	22.45	23.98	22.95	30.00
5610MHz	Pass	0.50	23.91	23.91	23.98	24.41	30.00
5690MHz Straddle 5.47-5.725GHz	Pass	0.50	23.83	23.83	23.98	24.33	30.00
5690MHz Straddle 5.725-5.85GHz	Pass	0.50	11.48	11.48	30.00	11.98	36.00
5775MHz	Pass	0.50	24.17	24.17	30.00	24.67	36.00

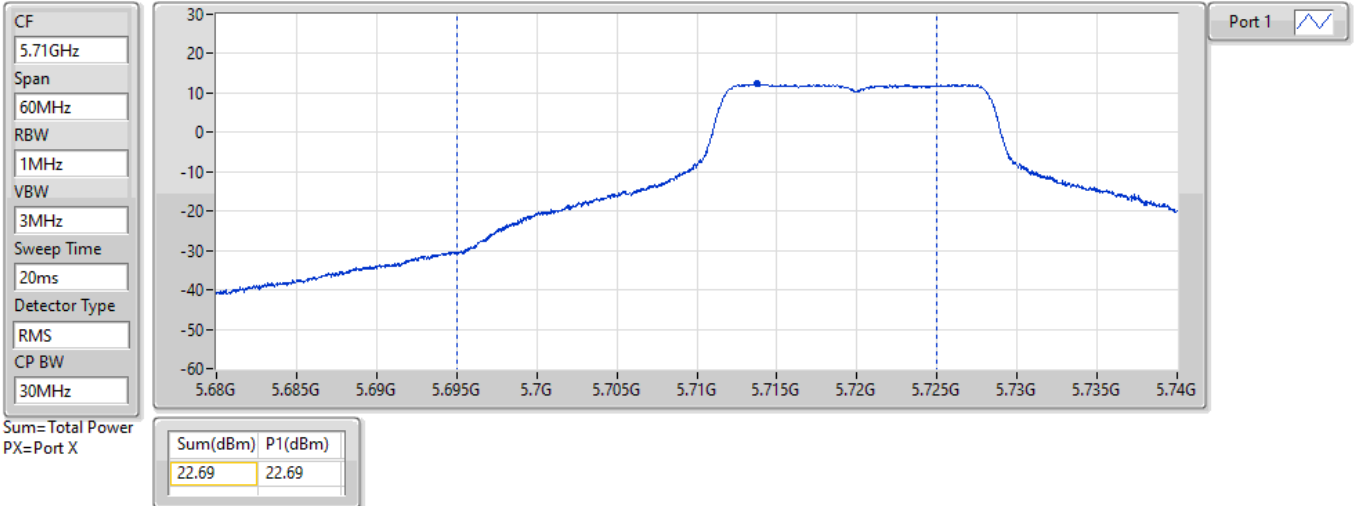
DG = Directional Gain; Port X = Port X output power

802.11a_Nss1,(6Mbps)_1TX

AV Power

5720MHz Straddle 5.47-5.725GHz_TnomVnom

21/06/2021

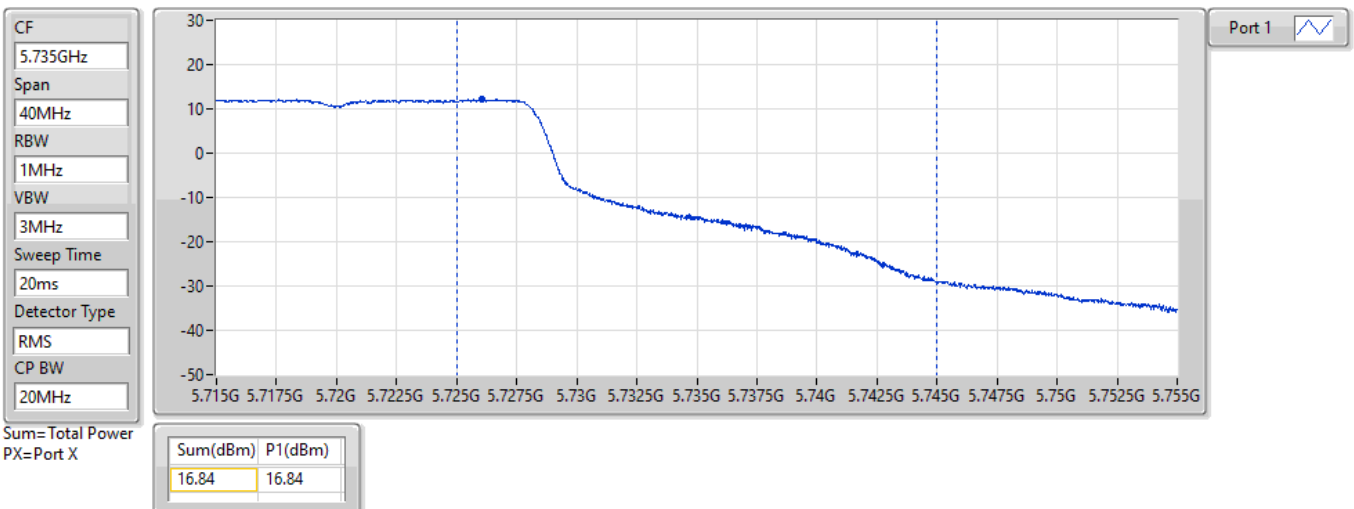


802.11a_Nss1,(6Mbps)_1TX

AV Power

5720MHz Straddle 5.725-5.85GHz_TnomVnom

21/06/2021

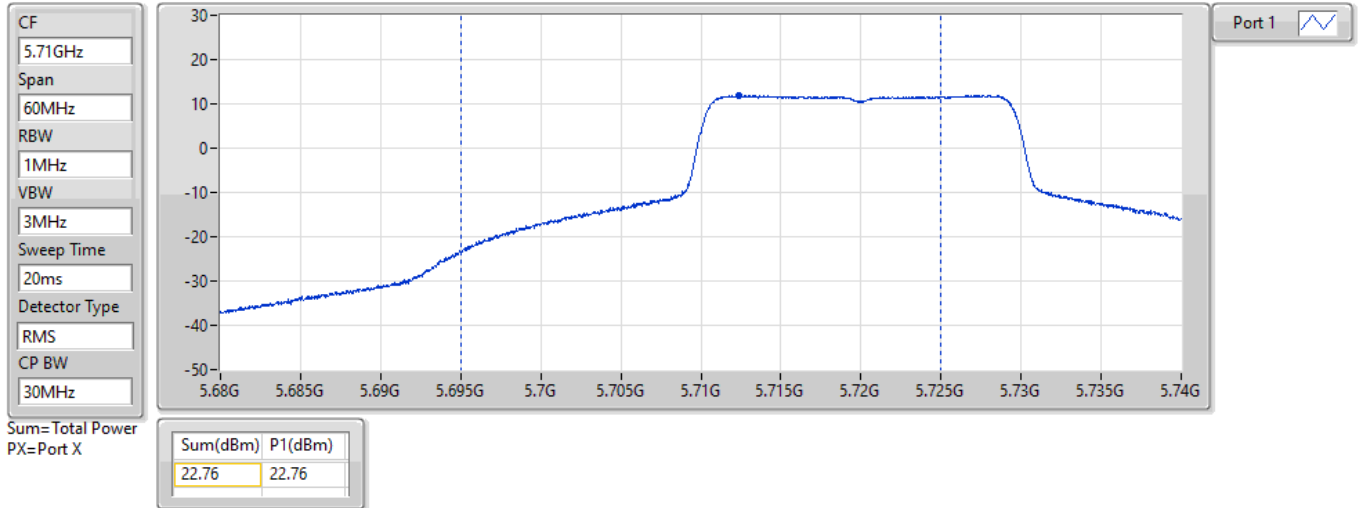


802.11ax HEW20_Nss1,(MCS0)_1TX

AV Power

5720MHz Straddle 5.47-5.725GHz_TnomVnom

21/06/2021

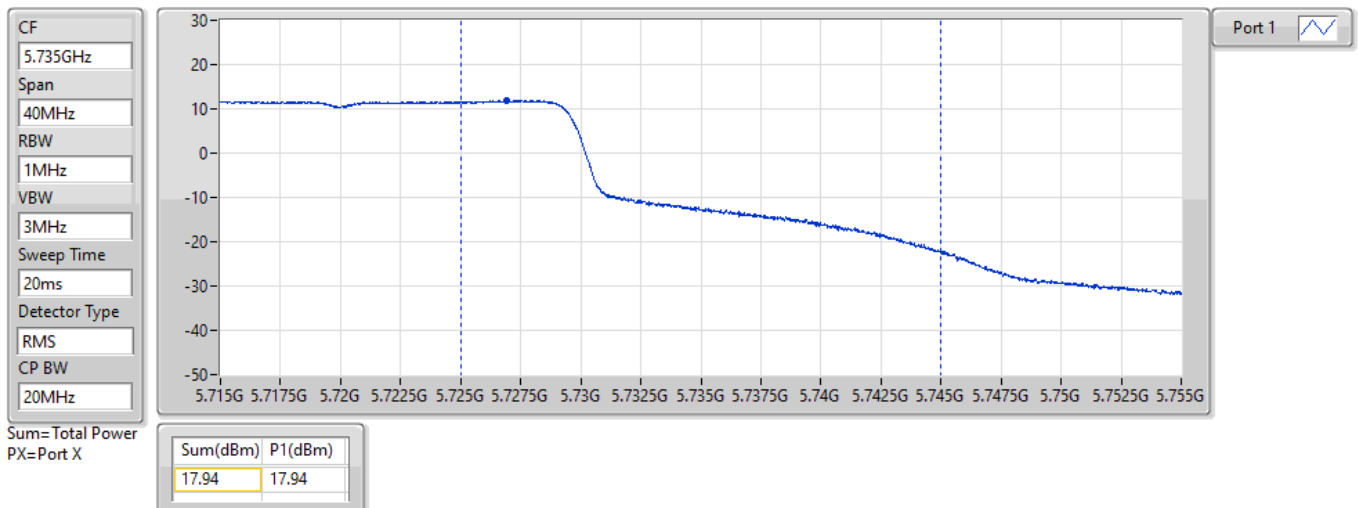


802.11ax HEW20_Nss1,(MCS0)_1TX

AV Power

5720MHz Straddle 5.725-5.85GHz_TnomVnom

21/06/2021

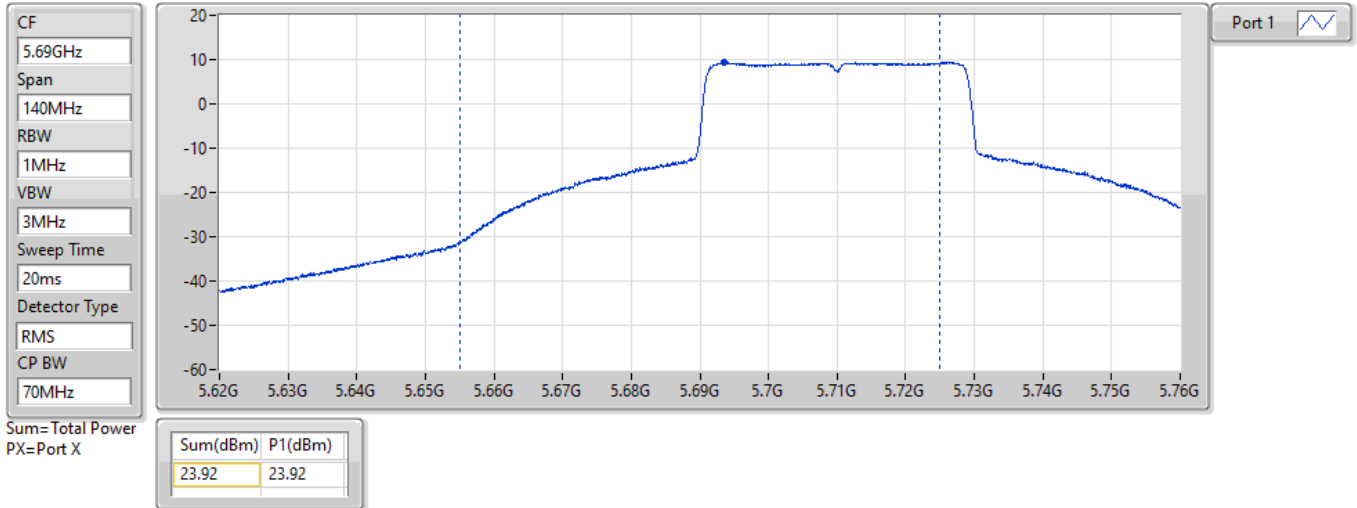


802.11ax HEW40_Nss1,(MCS0)_1TX

AV Power

5710MHz Straddle 5.47-5.725GHz_TnomVnom

21/06/2021

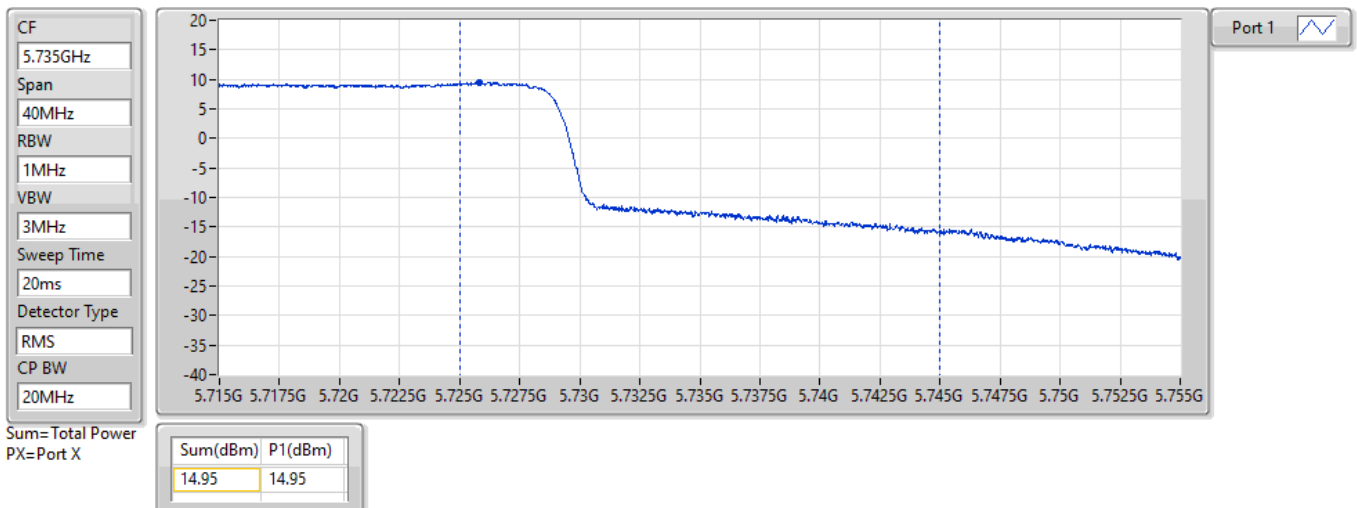


802.11ax HEW40_Nss1,(MCS0)_1TX

AV Power

5710MHz Straddle 5.725-5.85GHz_TnomVnom

21/06/2021

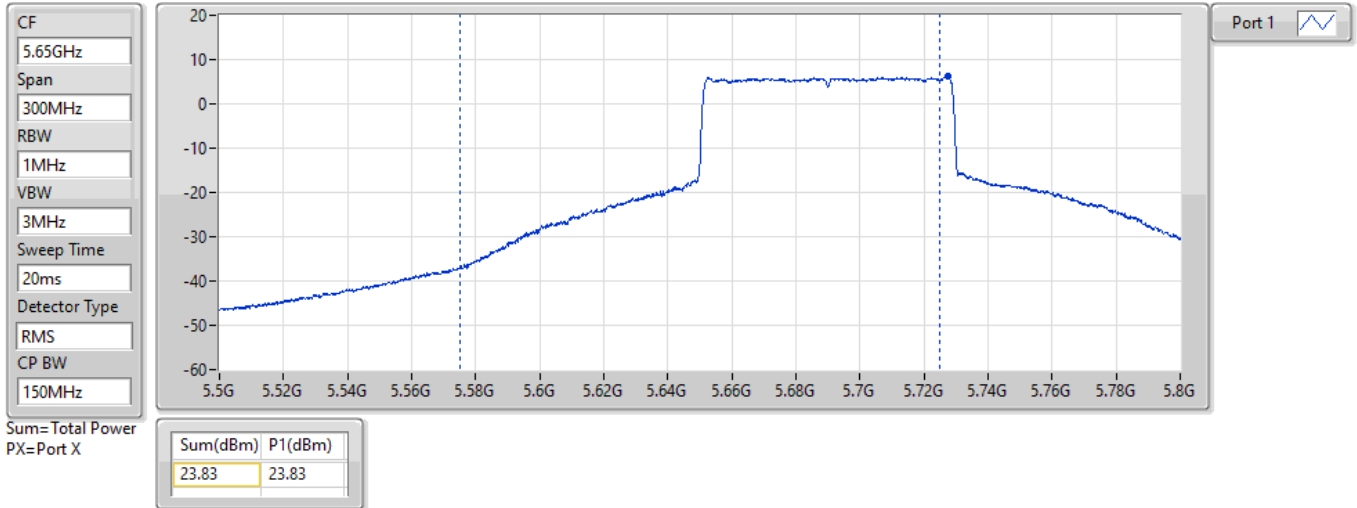


802.11ax HEW80_Nss1,(MCS0)_1TX

AV Power

5690MHz Straddle 5.47-5.725GHz_TnomVnom

21/06/2021

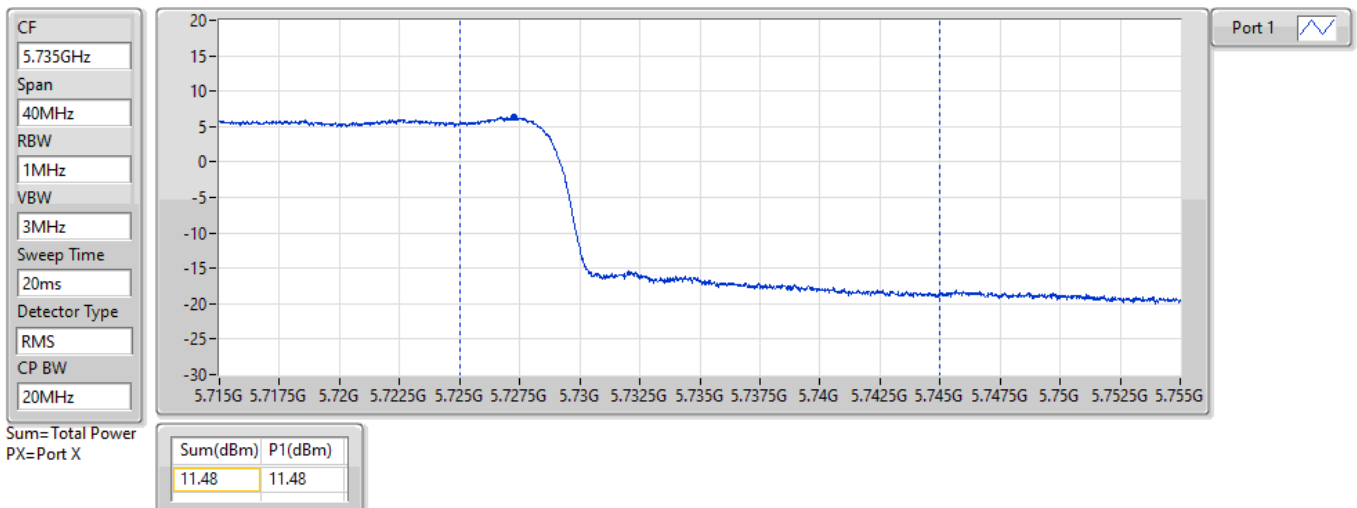


802.11ax HEW80_Nss1,(MCS0)_1TX

AV Power

5690MHz Straddle 5.725-5.85GHz_TnomVnom

21/06/2021



Summary

Mode	Total Power (dBm)	Total Power (W)	EIRP (dBm)	EIRP (W)
5.15-5.25GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	20.05	0.10116	20.55	0.11350
802.11ax HEW20_Nss1,(MCS0)_4TX	20.35	0.10839	20.85	0.12162
802.11ax HEW40_Nss1,(MCS0)_4TX	20.13	0.10304	20.63	0.11561
802.11ax HEW80_Nss1,(MCS0)_4TX	20.35	0.10839	20.85	0.12162
5.25-5.35GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	23.13	0.20559	23.63	0.23067
802.11ax HEW20_Nss1,(MCS0)_4TX	23.90	0.24547	24.40	0.27542
802.11ax HEW40_Nss1,(MCS0)_4TX	23.96	0.24889	24.46	0.27925
802.11ax HEW80_Nss1,(MCS0)_4TX	23.96	0.24889	24.46	0.27925
5.47-5.725GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	23.09	0.20370	23.59	0.22856
802.11ax HEW20_Nss1,(MCS0)_4TX	23.95	0.24831	24.45	0.27861
802.11ax HEW40_Nss1,(MCS0)_4TX	23.96	0.24889	24.46	0.27925
802.11ax HEW80_Nss1,(MCS0)_4TX	23.89	0.24491	24.39	0.27479
5.725-5.85GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	29.99	0.99770	30.49	1.11944
802.11ax HEW20_Nss1,(MCS0)_4TX	29.99	0.99770	30.49	1.11944
802.11ax HEW40_Nss1,(MCS0)_4TX	29.96	0.99083	30.46	1.11173
802.11ax HEW80_Nss1,(MCS0)_4TX	29.73	0.93972	30.23	1.05439

**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	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	0.50	13.84	13.91	13.91	14.18	19.98	30.00	20.48	36.00
5200MHz	Pass	0.50	13.74	13.87	14.20	13.48	19.85	30.00	20.35	36.00
5240MHz	Pass	0.50	13.64	13.46	14.16	14.74	20.05	30.00	20.55	36.00
5260MHz	Pass	0.50	16.37	16.77	17.06	17.55	22.98	23.98	23.48	30.00
5300MHz	Pass	0.50	16.57	16.77	17.13	17.64	23.07	23.98	23.57	30.00
5320MHz	Pass	0.50	16.52	16.94	17.21	17.68	23.13	23.98	23.63	30.00
5500MHz	Pass	0.50	15.90	16.56	17.33	17.83	22.99	23.98	23.49	30.00
5580MHz	Pass	0.50	15.93	16.76	17.18	18.11	23.09	23.98	23.59	30.00
5700MHz	Pass	0.50	16.66	16.88	16.30	17.92	23.00	23.98	23.50	30.00
5720MHz Straddle 5.47-5.725GHz	Pass	0.50	16.28	16.34	15.59	17.43	22.48	23.03	22.98	29.03
5720MHz Straddle 5.725-5.85GHz	Pass	0.50	10.64	10.16	9.35	11.39	16.47	30.00	16.97	36.00
5745MHz	Pass	0.50	23.52	23.76	23.10	25.00	29.93	30.00	30.43	36.00
5785MHz	Pass	0.50	23.34	23.92	22.93	25.11	29.93	30.00	30.43	36.00
5825MHz	Pass	0.50	23.58	23.96	22.96	25.10	29.99	30.00	30.49	36.00
802.11ax HEW20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	0.50	13.88	14.66	14.37	14.39	20.35	30.00	20.85	36.00
5200MHz	Pass	0.50	13.92	14.52	14.07	13.94	20.14	30.00	20.64	36.00
5240MHz	Pass	0.50	14.01	14.24	14.32	14.09	20.19	30.00	20.69	36.00
5260MHz	Pass	0.50	17.33	17.83	17.97	18.30	23.89	23.98	24.39	30.00
5300MHz	Pass	0.50	16.95	17.79	17.95	18.15	23.75	23.98	24.25	30.00
5320MHz	Pass	0.50	17.16	17.90	18.07	18.30	23.90	23.98	24.40	30.00
5500MHz	Pass	0.50	16.34	17.77	18.48	18.74	23.95	23.98	24.45	30.00
5580MHz	Pass	0.50	16.17	17.82	18.38	18.90	23.95	23.98	24.45	30.00
5700MHz	Pass	0.50	17.50	17.77	17.33	18.91	23.94	23.98	24.44	30.00
5720MHz Straddle 5.47-5.725GHz	Pass	0.50	16.47	16.70	16.33	17.91	22.92	23.24	23.42	29.24
5720MHz Straddle 5.725-5.85GHz	Pass	0.50	11.57	11.78	11.26	13.05	17.99	30.00	18.49	36.00
5745MHz	Pass	0.50	23.33	23.89	23.20	25.08	29.96	30.00	30.46	36.00
5785MHz	Pass	0.50	22.81	23.97	22.88	25.32	29.89	30.00	30.39	36.00
5825MHz	Pass	0.50	23.56	23.86	22.89	25.21	29.99	30.00	30.49	36.00
802.11ax HEW40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	0.50	13.26	14.44	13.97	14.64	20.13	30.00	20.63	36.00
5230MHz	Pass	0.50	13.26	13.94	14.13	14.86	20.11	30.00	20.61	36.00
5270MHz	Pass	0.50	17.21	17.86	18.17	18.43	23.96	23.98	24.46	30.00
5310MHz	Pass	0.50	17.32	17.78	18.16	18.35	23.94	23.98	24.44	30.00
5510MHz	Pass	0.50	16.60	17.83	18.29	18.61	23.92	23.98	24.42	30.00
5550MHz	Pass	0.50	16.60	17.76	18.28	18.81	23.96	23.98	24.46	30.00
5670MHz	Pass	0.50	16.60	17.59	18.29	18.94	23.96	23.98	24.46	30.00
5710MHz Straddle 5.47-5.725GHz	Pass	0.50	17.61	17.53	17.49	18.80	23.91	23.98	24.41	30.00
5710MHz Straddle 5.725-5.85GHz	Pass	0.50	8.60	8.46	8.12	10.06	14.90	30.00	15.40	36.00
5755MHz	Pass	0.50	23.66	23.74	23.06	24.95	29.93	30.00	30.43	36.00
5795MHz	Pass	0.50	23.69	23.79	23.01	25.03	29.96	30.00	30.46	36.00
802.11ax HEW80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	0.50	13.58	14.67	14.30	14.69	20.35	30.00	20.85	36.00
5290MHz	Pass	0.50	17.21	17.77	18.26	18.43	23.96	23.98	24.46	30.00
5530MHz	Pass	0.50	16.60	17.67	18.39	18.57	23.89	23.98	24.39	30.00
5610MHz	Pass	0.50	16.51	17.68	18.09	18.84	23.88	23.98	24.38	30.00
5690MHz Straddle 5.47-5.725GHz	Pass	0.50	16.62	17.49	18.32	18.74	23.89	23.98	24.39	30.00
5690MHz Straddle 5.725-5.85GHz	Pass	0.50	4.18	5.05	5.14	6.32	11.26	30.00	11.76	36.00
5775MHz	Pass	0.50	23.63	23.70	23.04	24.37	29.73	30.00	30.23	36.00

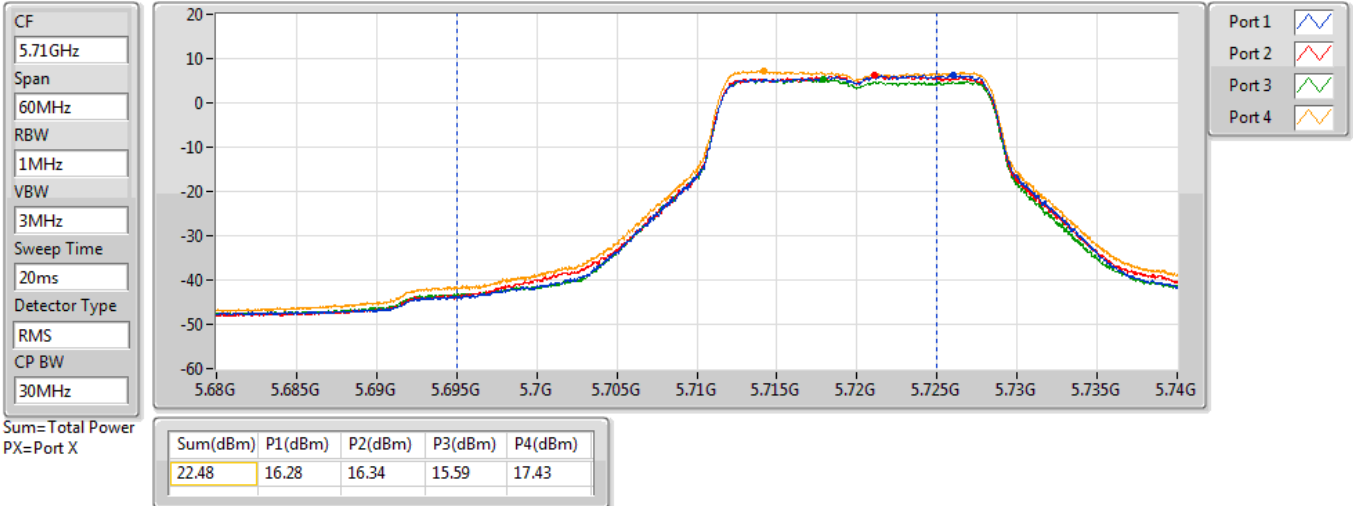
DG = Directional Gain; Port X = Port X output power

802.11a_Nss1,(6Mbps)_4TX

AV Power

5720MHz Straddle 5.47-5.725GHz_TnomVnom

16/03/2021

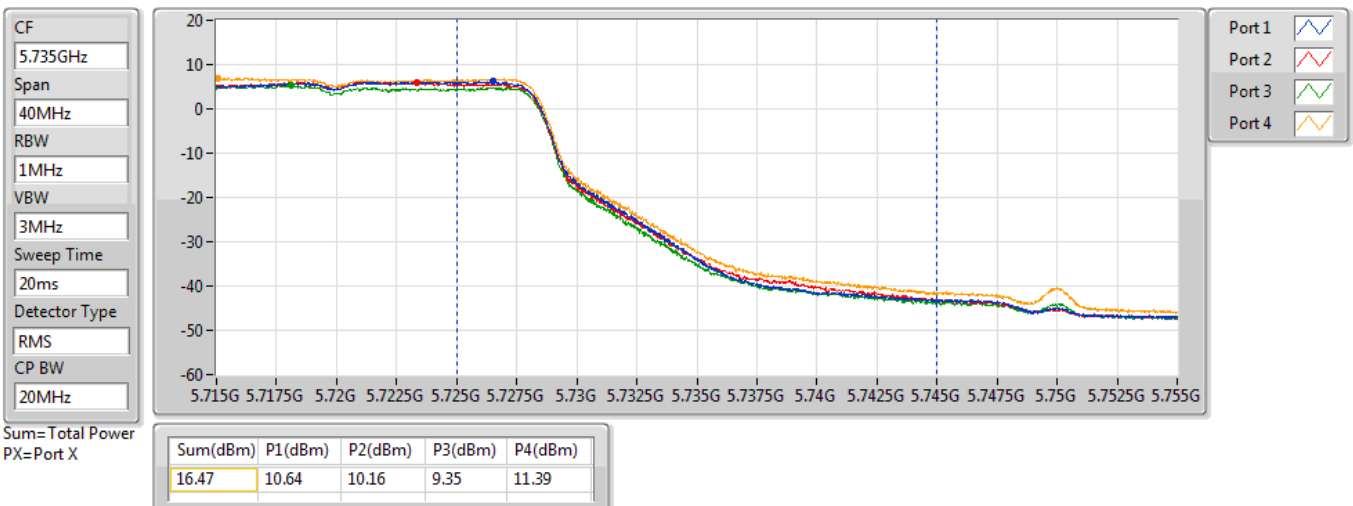


802.11a_Nss1,(6Mbps)_4TX

AV Power

5720MHz Straddle 5.725-5.85GHz_TnomVnom

16/03/2021



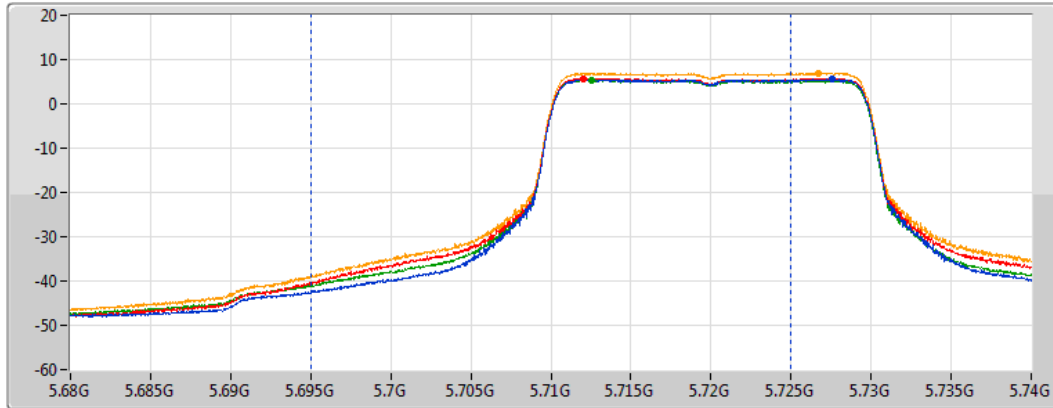
802.11ax HEW20_Nss1,(MCS0)_4TX

AV Power

5720MHz Straddle 5.47-5.725GHz_TnomVnom

16/03/2021

CF
5.71GHz
Span
60MHz
RBW
1MHz
VBW
3MHz
Sweep Time
20ms
Detector Type
RMS
CP BW
30MHz



Port 1
Port 2
Port 3
Port 4

Sum= Total Power
PX=Port X

Sum(dBm)	P1(dBm)	P2(dBm)	P3(dBm)	P4(dBm)
22.92	16.47	16.70	16.33	17.91

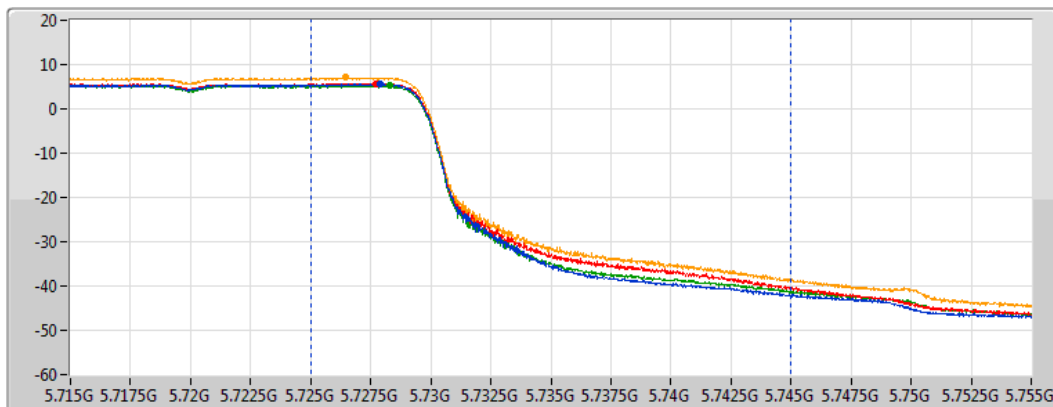
802.11ax HEW20_Nss1,(MCS0)_4TX

AV Power

5720MHz Straddle 5.725-5.85GHz_TnomVnom

16/03/2021

CF
5.735GHz
Span
40MHz
RBW
1MHz
VBW
3MHz
Sweep Time
20ms
Detector Type
RMS
CP BW
20MHz



Port 1
Port 2
Port 3
Port 4

Sum= Total Power
PX=Port X

Sum(dBm)	P1(dBm)	P2(dBm)	P3(dBm)	P4(dBm)
17.99	11.57	11.78	11.26	13.05

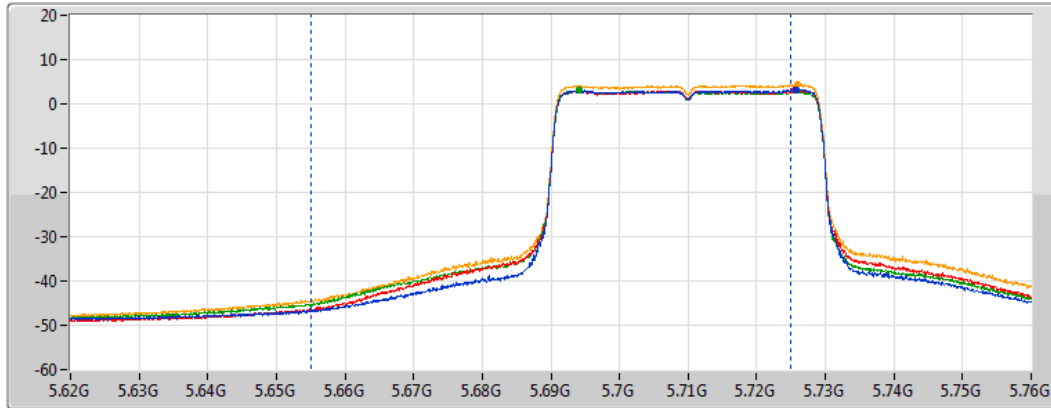
802.11ax HEW40_Nss1,(MCS0)_4TX

AV Power

5710MHz Straddle 5.47-5.725GHz_TnomVnom

16/03/2021

CF
5.69GHz
Span
140MHz
RBW
1MHz
VBW
3MHz
Sweep Time
20ms
Detector Type
RMS
CP BW
70MHz



Port 1
Port 2
Port 3
Port 4

Sum= Total Power
PX=Port X

Sum(dBm)	P1(dBm)	P2(dBm)	P3(dBm)	P4(dBm)
23.91	17.61	17.53	17.49	18.80

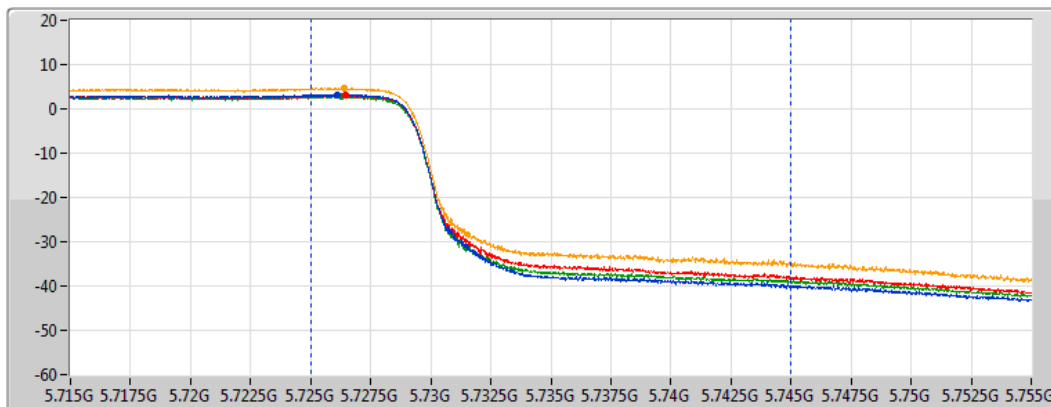
802.11ax HEW40_Nss1,(MCS0)_4TX

AV Power

5710MHz Straddle 5.725-5.85GHz_TnomVnom

16/03/2021

CF
5.735GHz
Span
40MHz
RBW
1MHz
VBW
3MHz
Sweep Time
20ms
Detector Type
RMS
CP BW
20MHz



Port 1
Port 2
Port 3
Port 4

Sum= Total Power
PX=Port X

Sum(dBm)	P1(dBm)	P2(dBm)	P3(dBm)	P4(dBm)
14.90	8.60	8.46	8.12	10.06

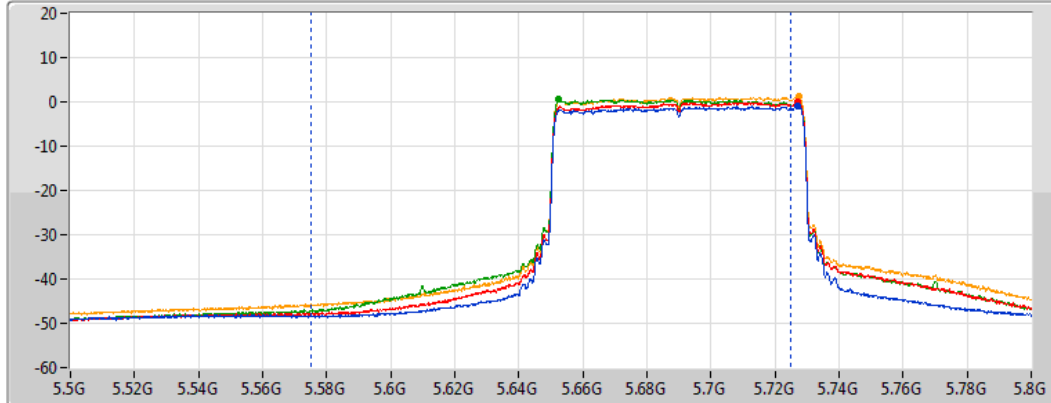
802.11ax HEW80_Nss1,(MCS0)_4TX

AV Power

5690MHz Straddle 5.47-5.725GHz_TnomVnom

16/03/2021

CF
5.65GHz
Span
300MHz
RBW
1MHz
VBW
3MHz
Sweep Time
20ms
Detector Type
RMS
CP BW
150MHz



Port 1
Port 2
Port 3
Port 4

Sum= Total Power
PX=Port X

Sum(dBm)	P1(dBm)	P2(dBm)	P3(dBm)	P4(dBm)
23.89	16.62	17.49	18.32	18.74

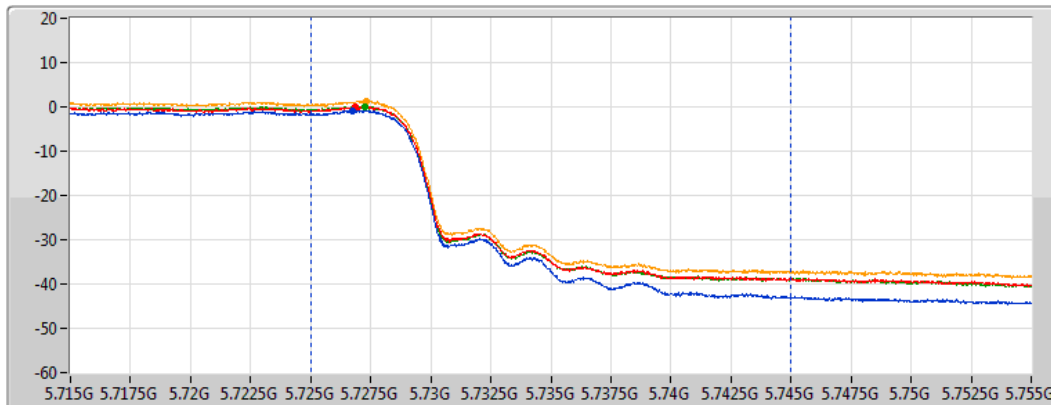
802.11ax HEW80_Nss1,(MCS0)_4TX

AV Power

5690MHz Straddle 5.725-5.85GHz_TnomVnom

16/03/2021

CF
5.735GHz
Span
40MHz
RBW
1MHz
VBW
3MHz
Sweep Time
20ms
Detector Type
RMS
CP BW
20MHz



Port 1
Port 2
Port 3
Port 4

Sum= Total Power
PX=Port X

Sum(dBm)	P1(dBm)	P2(dBm)	P3(dBm)	P4(dBm)
11.26	4.18	5.05	5.14	6.32

Summary

Mode	Total Power (dBm)	Total Power (W)	EIRP (dBm)	EIRP (W)
5.15-5.25GHz	-	-	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	14.26	0.02667	20.78	0.11967
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	14.00	0.02512	20.52	0.11272
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	14.07	0.02553	20.59	0.11455
5.25-5.35GHz	-	-	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	22.85	0.19275	29.37	0.86497
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	22.84	0.19231	29.36	0.86298
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	22.80	0.19055	29.32	0.85507
5.47-5.725GHz	-	-	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	22.74	0.18793	29.26	0.84333
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	22.76	0.18880	29.28	0.84723
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	22.88	0.19409	29.40	0.87096
5.725-5.85GHz	-	-	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	28.84	0.76560	35.36	3.43558
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	28.31	0.67764	34.83	3.04089
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	27.24	0.52966	33.76	2.37684

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)
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	6.52	8.11	7.94	8.83	8.01	14.26	29.48	20.78	36.00
5200MHz	Pass	6.52	7.35	8.12	8.52	7.25	13.86	29.48	20.38	36.00
5240MHz	Pass	6.52	7.18	7.92	8.29	8.32	13.97	29.48	20.49	36.00
5260MHz	Pass	6.52	16.10	17.01	17.02	17.13	22.85	23.46	29.37	30.00
5300MHz	Pass	6.52	15.98	16.61	16.83	17.38	22.75	23.46	29.27	30.00
5320MHz	Pass	6.52	15.94	16.69	17.12	17.29	22.81	23.46	29.33	30.00
5500MHz	Pass	6.52	15.36	16.56	16.88	17.21	22.58	23.46	29.10	30.00
5580MHz	Pass	6.52	15.45	16.25	16.72	17.34	22.51	23.46	29.03	30.00
5700MHz	Pass	6.52	16.54	16.70	15.84	17.62	22.74	23.46	29.26	30.00
5720MHz Straddle 5.47-5.725GHz	Pass	6.52	15.91	16.06	15.88	15.73	21.92	22.70	28.44	29.22
5720MHz Straddle 5.725-5.85GHz	Pass	6.52	12.03	11.06	10.94	11.14	17.34	29.48	23.86	36.00
5745MHz	Pass	6.52	22.69	22.84	21.77	22.35	28.45	29.48	34.97	36.00
5785MHz	Pass	6.52	22.74	22.76	22.03	23.61	28.84	29.48	35.36	36.00
5825MHz	Pass	6.52	22.98	22.35	21.59	23.47	28.67	29.48	35.19	36.00
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	6.52	7.31	7.93	8.10	8.15	13.91	29.48	20.43	36.00
5230MHz	Pass	6.52	8.12	8.05	7.59	8.12	14.00	29.48	20.52	36.00
5270MHz	Pass	6.52	16.06	16.85	17.00	17.26	22.84	23.46	29.36	30.00
5310MHz	Pass	6.52	16.07	16.51	16.96	17.24	22.74	23.46	29.26	30.00
5510MHz	Pass	6.52	14.42	15.49	15.89	16.26	21.59	23.46	28.11	30.00
5550MHz	Pass	6.52	15.62	16.56	17.12	17.46	22.76	23.46	29.28	30.00
5670MHz	Pass	6.52	15.75	16.42	16.69	17.58	22.68	23.46	29.20	30.00
5710MHz Straddle 5.47-5.725GHz	Pass	6.52	15.77	15.92	16.19	17.33	22.37	23.46	28.89	30.00
5710MHz Straddle 5.725-5.85GHz	Pass	6.52	5.97	6.99	5.46	7.23	12.49	29.48	19.01	36.00
5755MHz	Pass	6.52	22.02	21.75	21.47	23.27	28.20	29.48	34.72	36.00
5795MHz	Pass	6.52	22.51	21.33	21.85	23.23	28.31	29.48	34.83	36.00
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	6.52	8.25	7.40	8.51	7.95	14.07	29.48	20.59	36.00
5290MHz	Pass	6.52	15.83	16.72	17.10	17.32	22.80	23.46	29.32	30.00
5530MHz	Pass	6.52	15.77	16.59	17.23	17.62	22.88	23.46	29.40	30.00
5610MHz	Pass	6.52	15.62	16.51	16.80	17.45	22.66	23.46	29.18	30.00
5690MHz Straddle 5.47-5.725GHz	Pass	6.52	16.08	16.79	17.00	17.45	22.88	23.46	29.40	30.00
5690MHz Straddle 5.725-5.85GHz	Pass	6.52	3.36	5.31	3.58	5.31	10.51	29.48	17.03	36.00
5775MHz	Pass	6.52	22.13	20.45	20.90	21.21	27.24	29.48	33.76	36.00

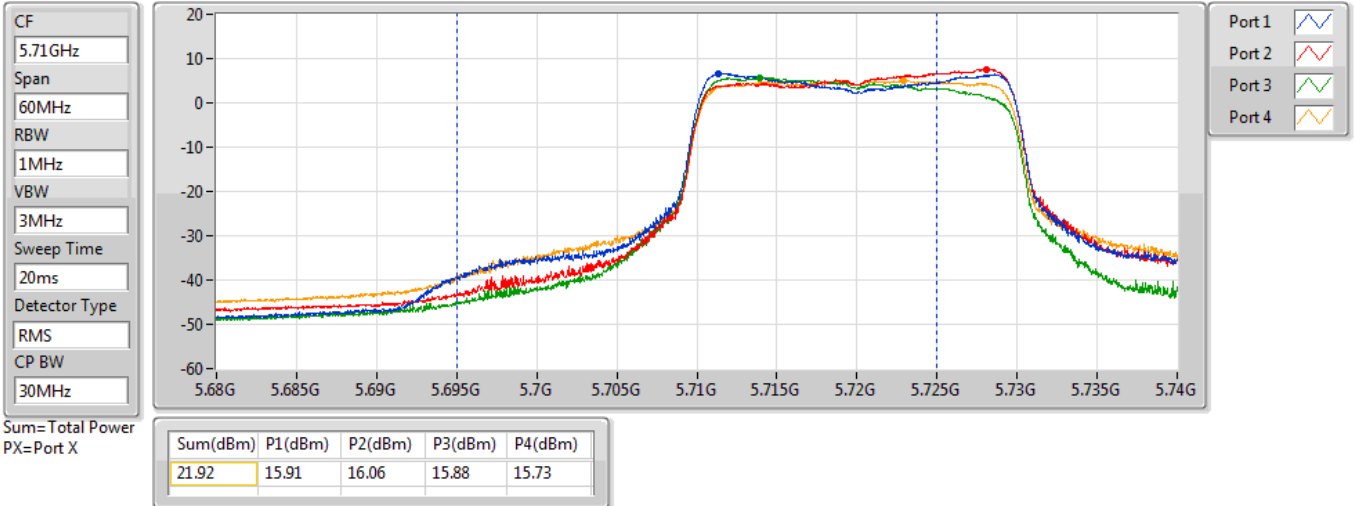
DG = Directional Gain; Port X = Port X output power

802.11ax HEW20-BF_Nss1,(MCS0)_4TX

AV Power

5720MHz Straddle 5.47-5.725GHz_TnomVnom

19/03/2021

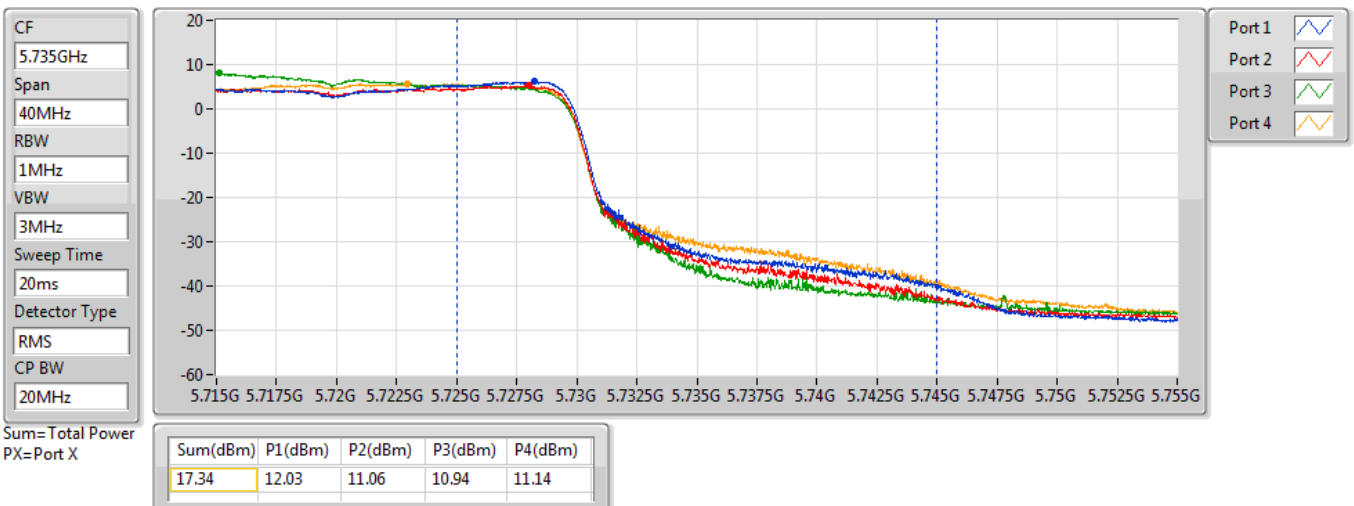


802.11ax HEW20-BF_Nss1,(MCS0)_4TX

AV Power

5720MHz Straddle 5.725-5.85GHz_TnomVnom

19/03/2021



802.11ax HEW40-BF_Nss1,(MCS0)_4TX

AV Power

5710MHz Straddle 5.47-5.725GHz_TnomVnom

19/03/2021

CF
5.69GHz

Span
140MHz

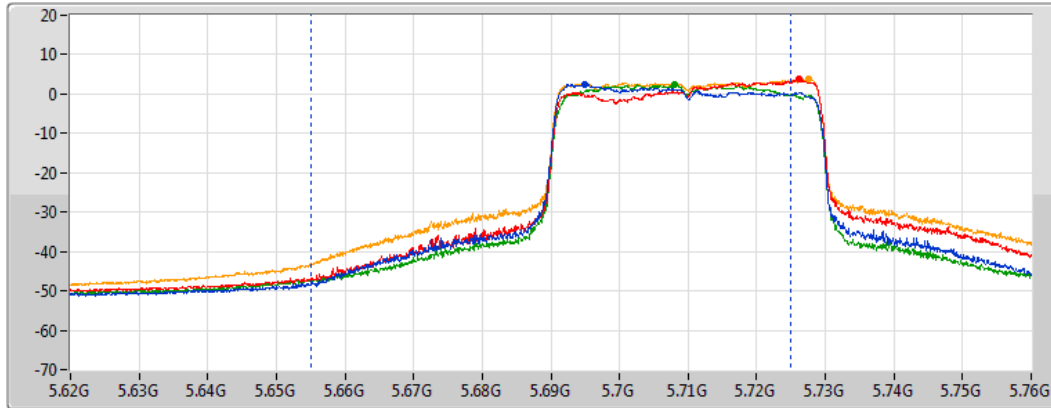
RBW
1MHz

VBW
3MHz

Sweep Time
20ms

Detector Type
RMS

CP BW
70MHz



Port 1 

Port 2 

Port 3 

Port 4 

Sum= Total Power
PX=Port X

Sum(dBm)	P1(dBm)	P2(dBm)	P3(dBm)	P4(dBm)
22.37	15.77	15.92	16.19	17.33

802.11ax HEW40-BF_Nss1,(MCS0)_4TX

AV Power

5710MHz Straddle 5.725-5.85GHz_TnomVnom

19/03/2021

CF
5.735GHz

Span
40MHz

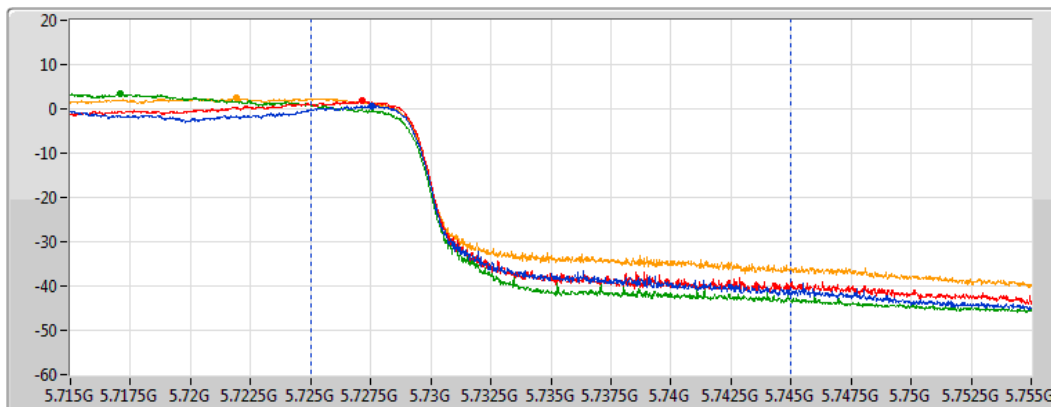
RBW
1MHz

VBW
3MHz

Sweep Time
20ms

Detector Type
RMS

CP BW
20MHz



Port 1 

Port 2 

Port 3 

Port 4 

Sum= Total Power
PX=Port X

Sum(dBm)	P1(dBm)	P2(dBm)	P3(dBm)	P4(dBm)
12.49	5.97	6.99	5.46	7.23

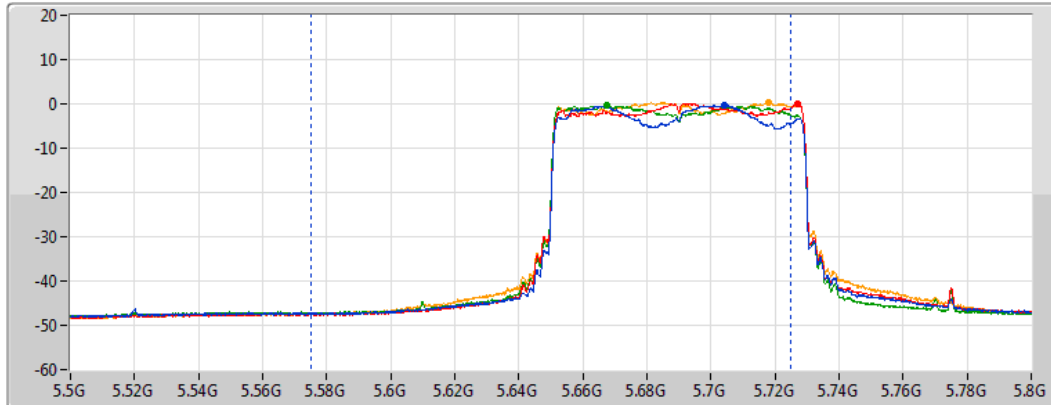
802.11ax HEW80-BF_Nss1,(MCS0)_4TX

AV Power

5690MHz Straddle 5.47-5.725GHz_TnomVnom

19/03/2021

CF
5.65GHz
Span
300MHz
RBW
1MHz
VBW
3MHz
Sweep Time
20ms
Detector Type
RMS
CP BW
150MHz



Port 1
Port 2
Port 3
Port 4

Sum= Total Power
PX=Port X

Sum(dBm)	P1(dBm)	P2(dBm)	P3(dBm)	P4(dBm)
22.88	16.08	16.79	17.00	17.45

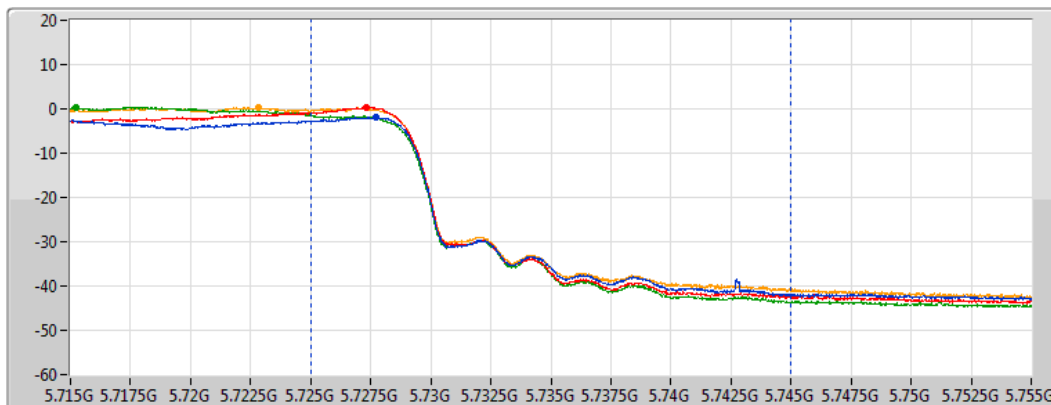
802.11ax HEW80-BF_Nss1,(MCS0)_4TX

AV Power

5690MHz Straddle 5.725-5.85GHz_TnomVnom

19/03/2021

CF
5.735GHz
Span
40MHz
RBW
1MHz
VBW
3MHz
Sweep Time
20ms
Detector Type
RMS
CP BW
20MHz



Port 1
Port 2
Port 3
Port 4

Sum= Total Power
PX=Port X

Sum(dBm)	P1(dBm)	P2(dBm)	P3(dBm)	P4(dBm)
10.51	3.36	5.31	3.58	5.31

Summary

Mode	PD (dBm/RBW)	EIRP PD (dBm/RBW)
5.15-5.25GHz	-	-
802.11a_Nss1,(6Mbps)_1TX	8.11	8.61
802.11ax HEW20_Nss1,(MCS0)_1TX	7.04	7.54
802.11ax HEW40_Nss1,(MCS0)_1TX	4.83	5.33
802.11ax HEW80_Nss1,(MCS0)_1TX	1.19	1.69
5.25-5.35GHz	-	-
802.11a_Nss1,(6Mbps)_1TX	10.99	11.49
802.11ax HEW20_Nss1,(MCS0)_1TX	10.25	10.75
802.11ax HEW40_Nss1,(MCS0)_1TX	7.17	7.67
802.11ax HEW80_Nss1,(MCS0)_1TX	1.97	2.47
5.47-5.725GHz	-	-
802.11a_Nss1,(6Mbps)_1TX	10.97	11.47
802.11ax HEW20_Nss1,(MCS0)_1TX	10.33	10.83
802.11ax HEW40_Nss1,(MCS0)_1TX	7.81	8.31
802.11ax HEW80_Nss1,(MCS0)_1TX	5.05	5.55
5.725-5.85GHz	-	-
802.11a_Nss1,(6Mbps)_1TX	9.87	10.37
802.11ax HEW20_Nss1,(MCS0)_1TX	9.70	10.20
802.11ax HEW40_Nss1,(MCS0)_1TX	7.90	8.40
802.11ax HEW80_Nss1,(MCS0)_1TX	3.64	4.14

RBW = 500kHz 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	-	-	-	-	-	-	-
5180MHz	Pass	0.50	8.11	8.11	17.00	8.61	23.00
5200MHz	Pass	0.50	7.75	7.75	17.00	8.25	23.00
5240MHz	Pass	0.50	7.89	7.89	17.00	8.39	23.00
5260MHz	Pass	0.50	10.93	10.93	11.00	11.43	17.00
5300MHz	Pass	0.50	10.88	10.88	11.00	11.38	17.00
5320MHz	Pass	0.50	10.99	10.99	11.00	11.49	17.00
5500MHz	Pass	0.50	10.97	10.97	11.00	11.47	17.00
5580MHz	Pass	0.50	10.83	10.83	11.00	11.33	17.00
5700MHz	Pass	0.50	9.39	9.39	11.00	9.89	17.00
5720MHz Straddle 5.47-5.725GHz	Pass	0.50	10.85	10.85	11.00	11.35	17.00
5720MHz Straddle 5.725-5.85GHz	Pass	0.50	9.18	9.18	30.00	9.68	36.00
5745MHz	Pass	0.50	9.87	9.87	30.00	10.37	36.00
5785MHz	Pass	0.50	9.62	9.62	30.00	10.12	36.00
5825MHz	Pass	0.50	9.79	9.79	30.00	10.29	36.00
802.11ax HEW20_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-
5180MHz	Pass	0.50	6.81	6.81	17.00	7.31	23.00
5200MHz	Pass	0.50	6.97	6.97	17.00	7.47	23.00
5240MHz	Pass	0.50	7.04	7.04	17.00	7.54	23.00
5260MHz	Pass	0.50	10.15	10.15	11.00	10.65	17.00
5300MHz	Pass	0.50	10.19	10.19	11.00	10.69	17.00
5320MHz	Pass	0.50	10.25	10.25	11.00	10.75	17.00
5500MHz	Pass	0.50	10.30	10.30	11.00	10.80	17.00
5580MHz	Pass	0.50	10.18	10.18	11.00	10.68	17.00
5700MHz	Pass	0.50	7.11	7.11	11.00	7.61	17.00
5720MHz Straddle 5.47-5.725GHz	Pass	0.50	10.33	10.33	11.00	10.83	17.00
5720MHz Straddle 5.725-5.85GHz	Pass	0.50	8.80	8.80	30.00	9.30	36.00
5745MHz	Pass	0.50	9.70	9.70	30.00	10.20	36.00
5785MHz	Pass	0.50	9.53	9.53	30.00	10.03	36.00
5825MHz	Pass	0.50	9.60	9.60	30.00	10.10	36.00
802.11ax HEW40_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-
5190MHz	Pass	0.50	4.82	4.82	17.00	5.32	23.00
5230MHz	Pass	0.50	4.83	4.83	17.00	5.33	23.00
5270MHz	Pass	0.50	7.17	7.17	11.00	7.67	17.00
5310MHz	Pass	0.50	5.50	5.50	11.00	6.00	17.00
5510MHz	Pass	0.50	4.34	4.34	11.00	4.84	17.00
5550MHz	Pass	0.50	7.55	7.55	11.00	8.05	17.00
5670MHz	Pass	0.50	6.79	6.79	11.00	7.29	17.00
5710MHz Straddle 5.47-5.725GHz	Pass	0.50	7.81	7.81	11.00	8.31	17.00
5710MHz Straddle 5.725-5.85GHz	Pass	0.50	6.48	6.48	30.00	6.98	36.00
5755MHz	Pass	0.50	7.90	7.90	30.00	8.40	36.00
5795MHz	Pass	0.50	7.88	7.88	30.00	8.38	36.00
802.11ax HEW80_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-
5210MHz	Pass	0.50	1.19	1.19	17.00	1.69	23.00
5290MHz	Pass	0.50	1.97	1.97	11.00	2.47	17.00
5530MHz	Pass	0.50	3.62	3.62	11.00	4.12	17.00
5610MHz	Pass	0.50	5.05	5.05	11.00	5.55	17.00
5690MHz Straddle 5.47-5.725GHz	Pass	0.50	4.44	4.44	11.00	4.94	17.00
5690MHz Straddle 5.725-5.85GHz	Pass	0.50	3.43	3.43	30.00	3.93	36.00
5775MHz	Pass	0.50	3.64	3.64	30.00	4.14	36.00

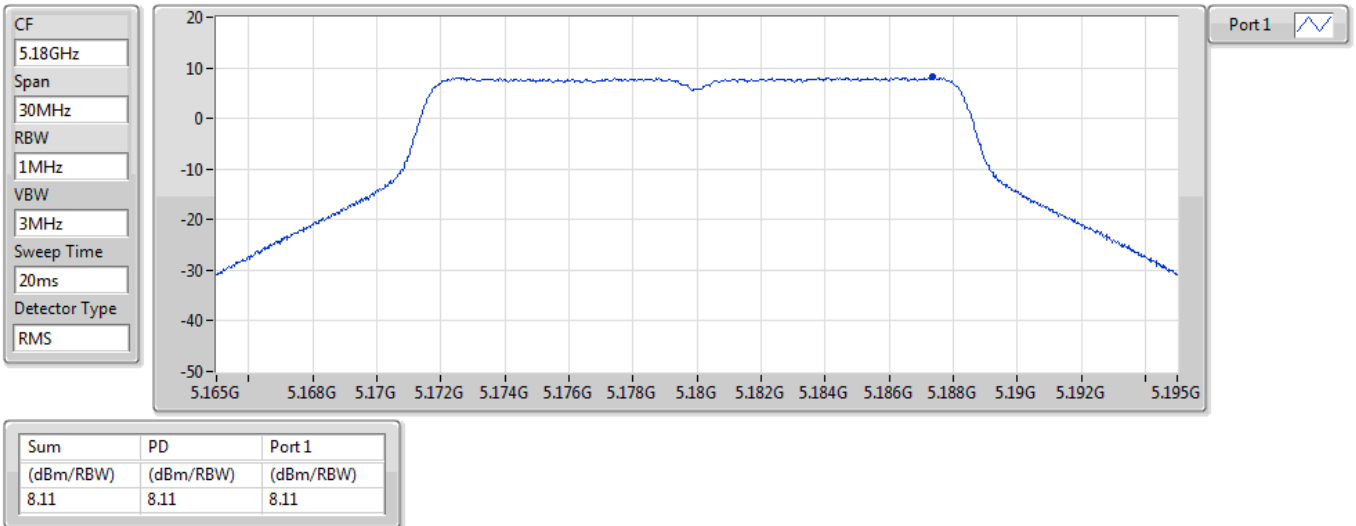
DG = Directional Gain; RBW = 500kHz for 5.725-5.85GHz band / 1MHz for other band;
 PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; Port X = Port X Power Density;

802.11a_Nss1,(6Mbps)_1TX

PSD

5180MHz

16/07/2021

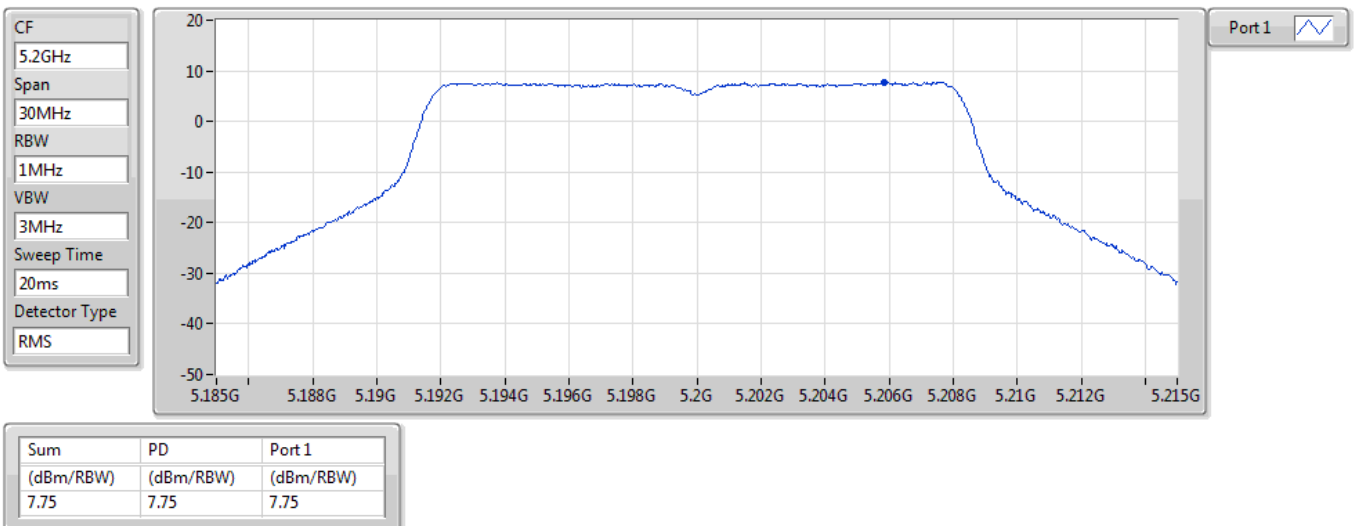


802.11a_Nss1,(6Mbps)_1TX

PSD

5200MHz

16/07/2021

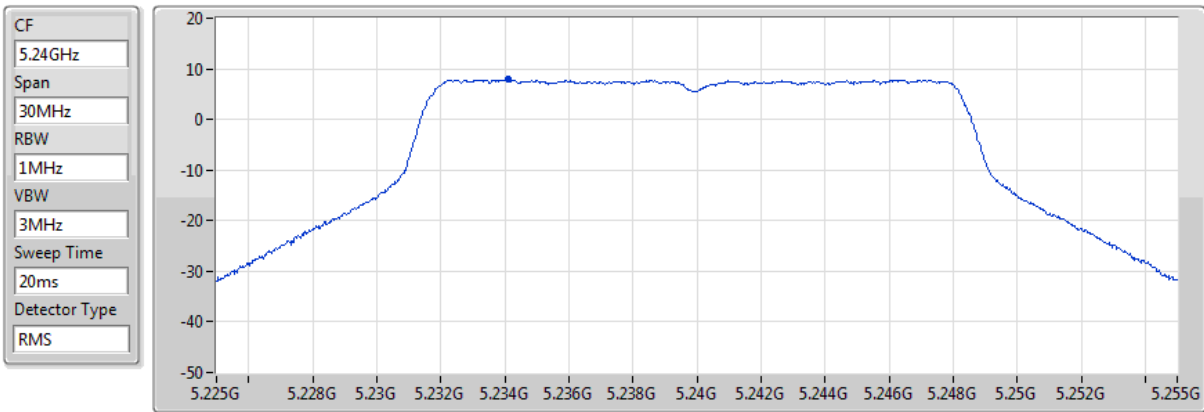


802.11a_Nss1,(6Mbps)_1TX

PSD

5240MHz

16/07/2021



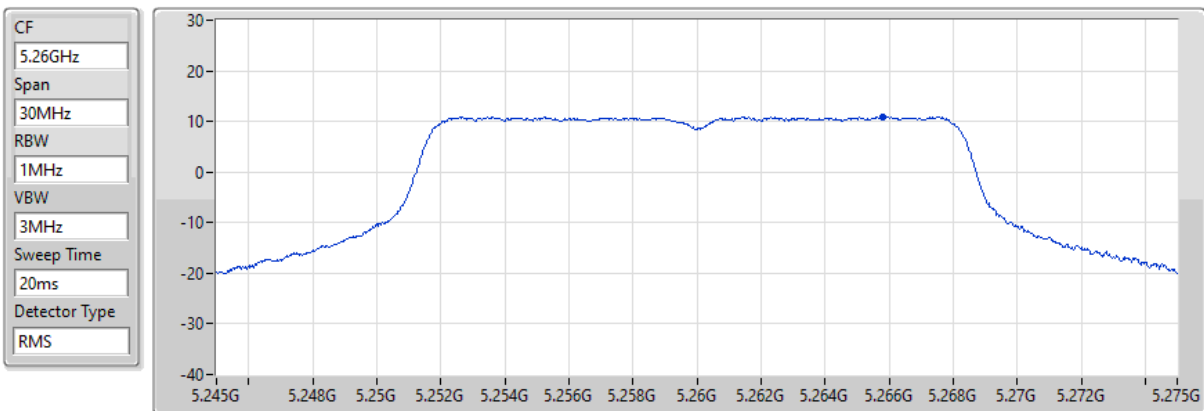
Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
7.89	7.89	7.89

802.11a_Nss1,(6Mbps)_1TX

PSD

5260MHz

21/06/2021



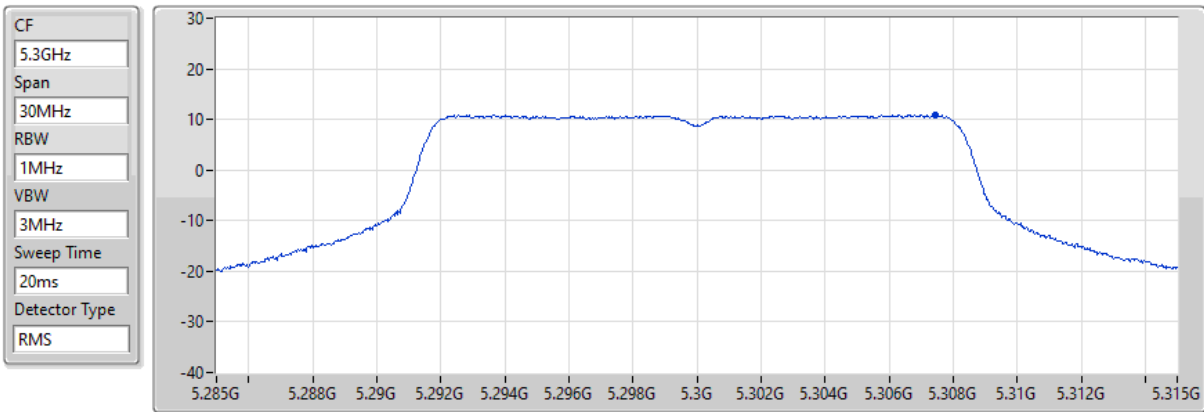
Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
10.93	10.93	10.93

802.11a_Nss1,(6Mbps)_1TX

PSD

5300MHz

21/06/2021



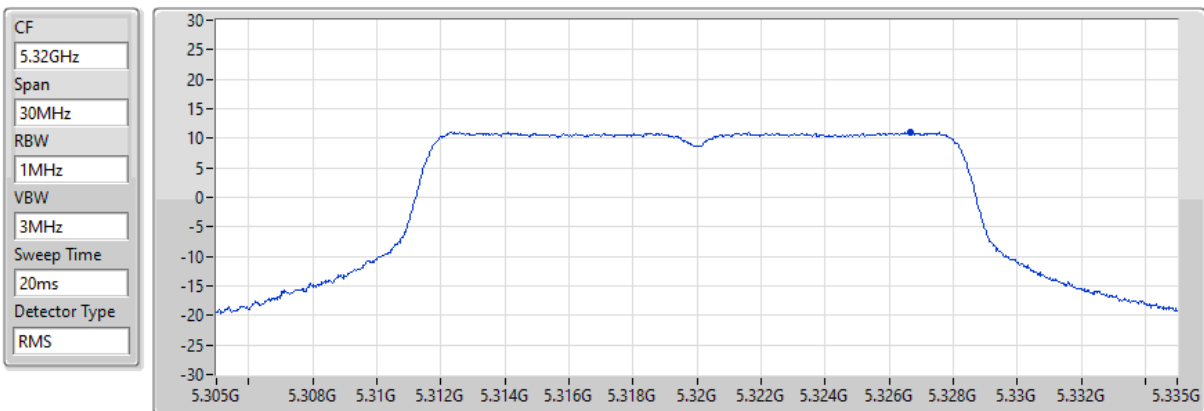
Sum	PD	Port 1
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
10.88	10.88	10.88

802.11a_Nss1,(6Mbps)_1TX

PSD

5320MHz

21/06/2021



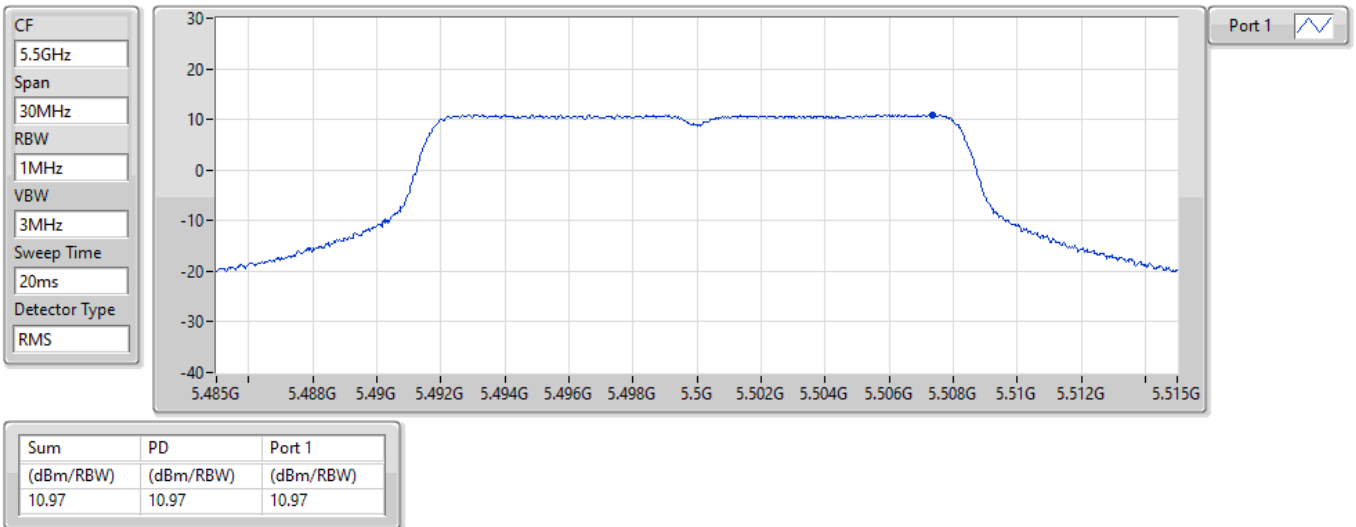
Sum	PD	Port 1
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
10.99	10.99	10.99

802.11a_Nss1,(6Mbps)_1TX

PSD

5500MHz

21/06/2021

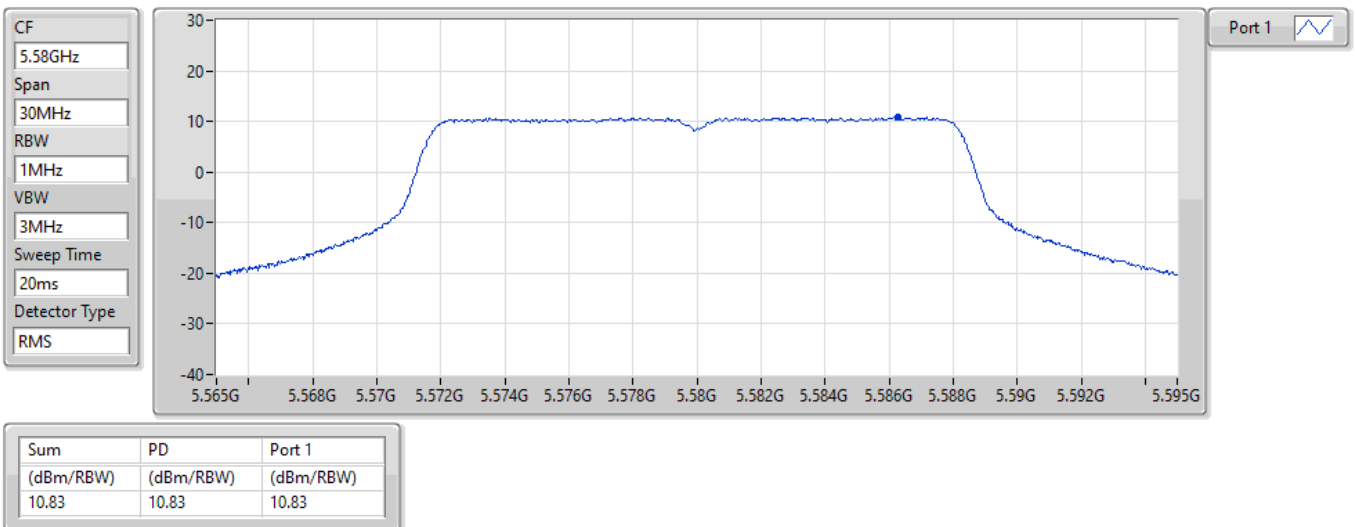


802.11a_Nss1,(6Mbps)_1TX

PSD

5580MHz

21/06/2021

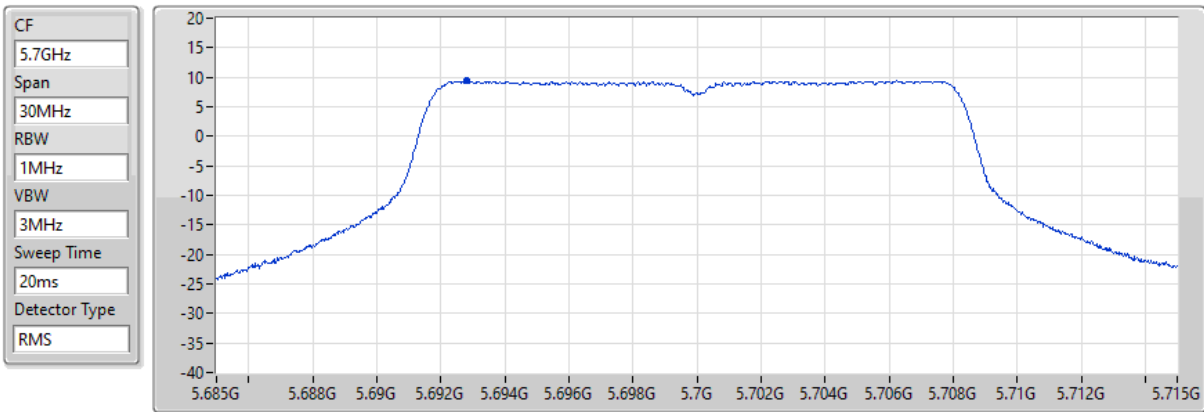


802.11a_Nss1,(6Mbps)_1TX

PSD

5700MHz

21/06/2021



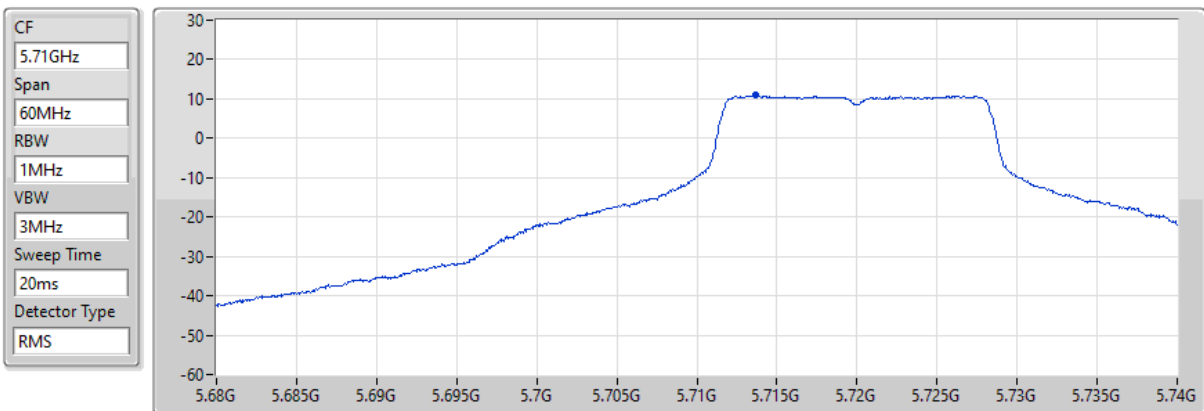
Sum	PD	Port 1
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
9.39	9.39	9.39

802.11a_Nss1,(6Mbps)_1TX

PSD

5720MHz Straddle 5.47-5.725GHz

21/06/2021



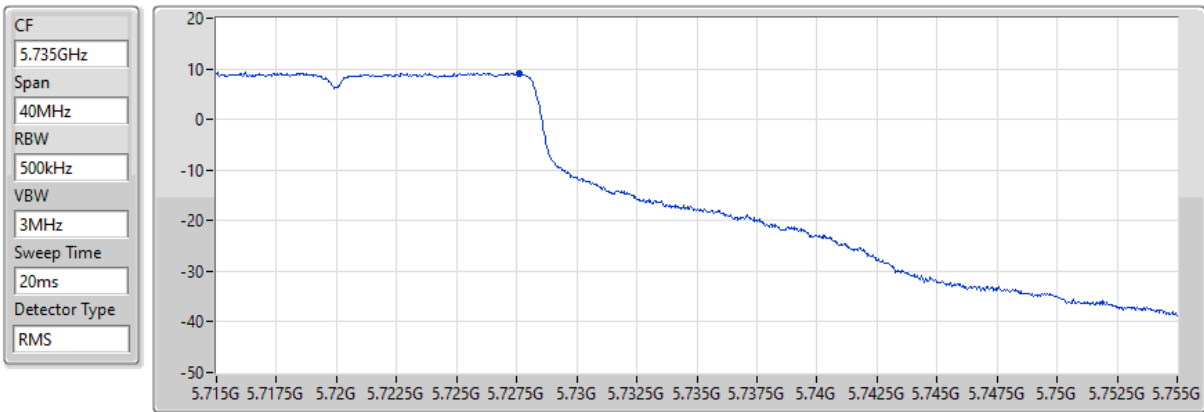
Sum	PD	Port 1
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
10.85	10.85	10.85

802.11a_Nss1,(6Mbps)_1TX

PSD

5720MHz Straddle 5.725-5.85GHz

21/06/2021



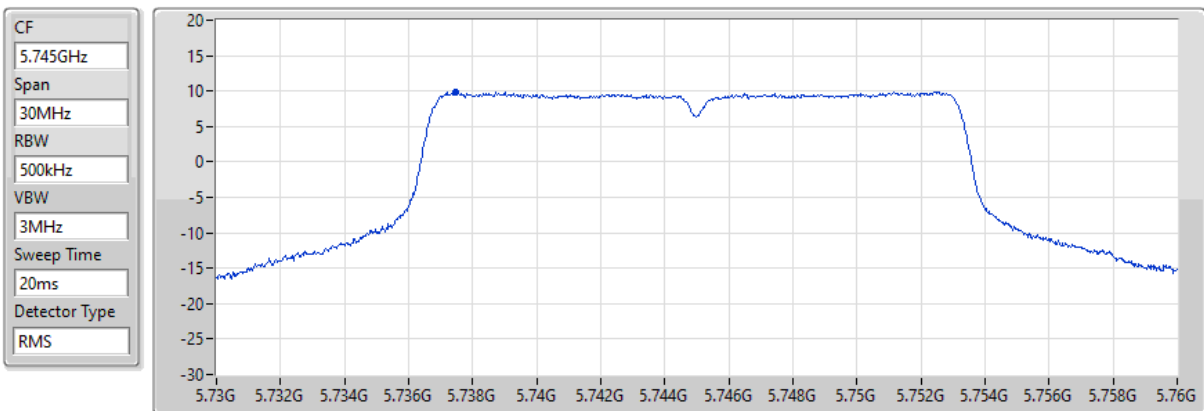
Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
9.18	9.18	9.18

802.11a_Nss1,(6Mbps)_1TX

PSD

5745MHz

21/06/2021



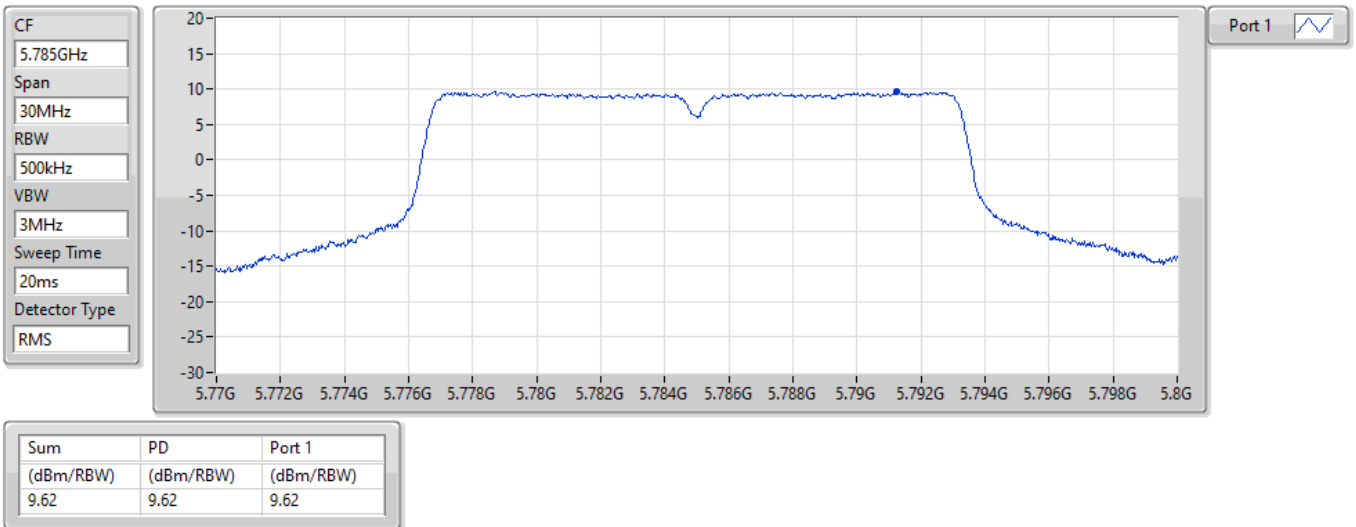
Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
9.87	9.87	9.87

802.11a_Nss1,(6Mbps)_1TX

PSD

5785MHz

21/06/2021

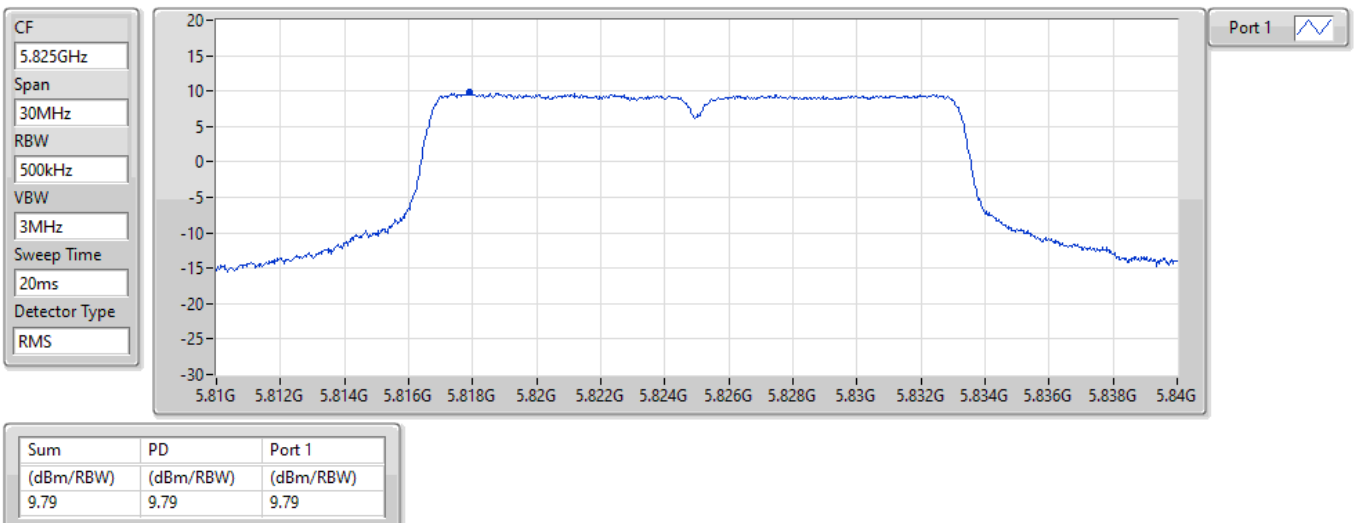


802.11a_Nss1,(6Mbps)_1TX

PSD

5825MHz

21/06/2021

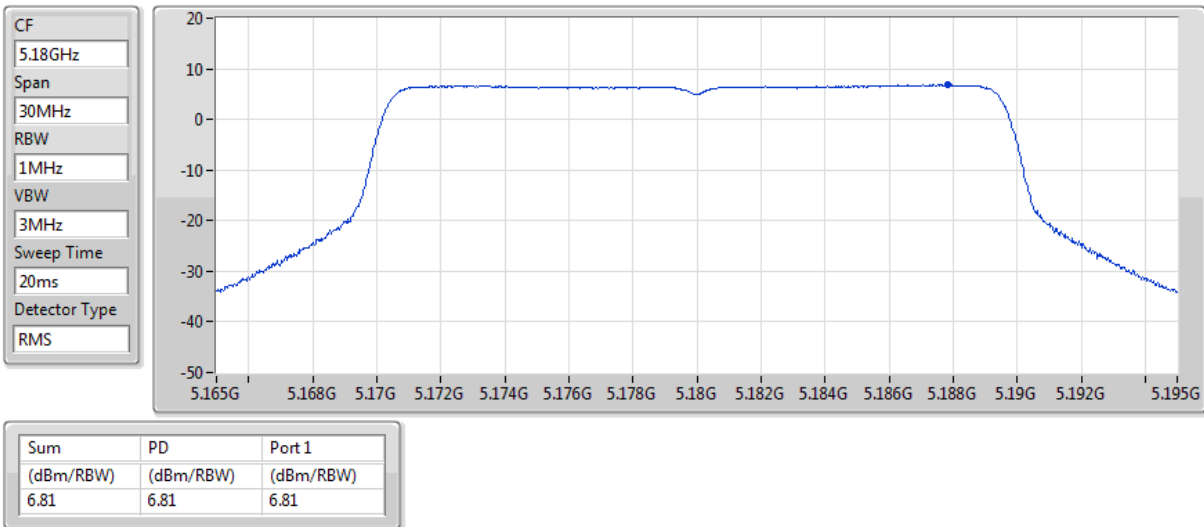


802.11ax HEW20_Nss1,(MCS0)_1TX

PSD

5180MHz

16/07/2021

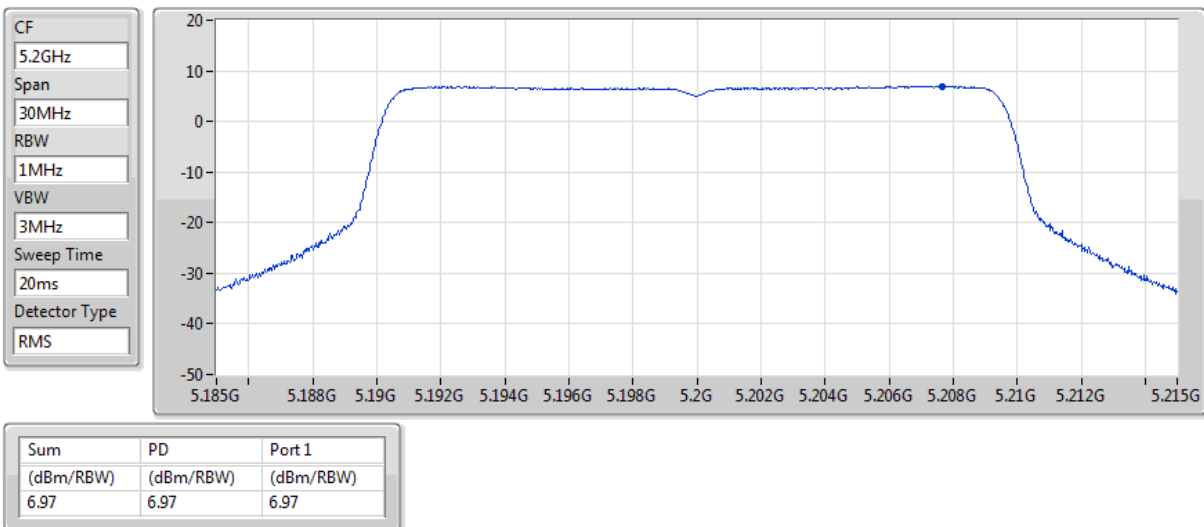


802.11ax HEW20_Nss1,(MCS0)_1TX

PSD

5200MHz

16/07/2021

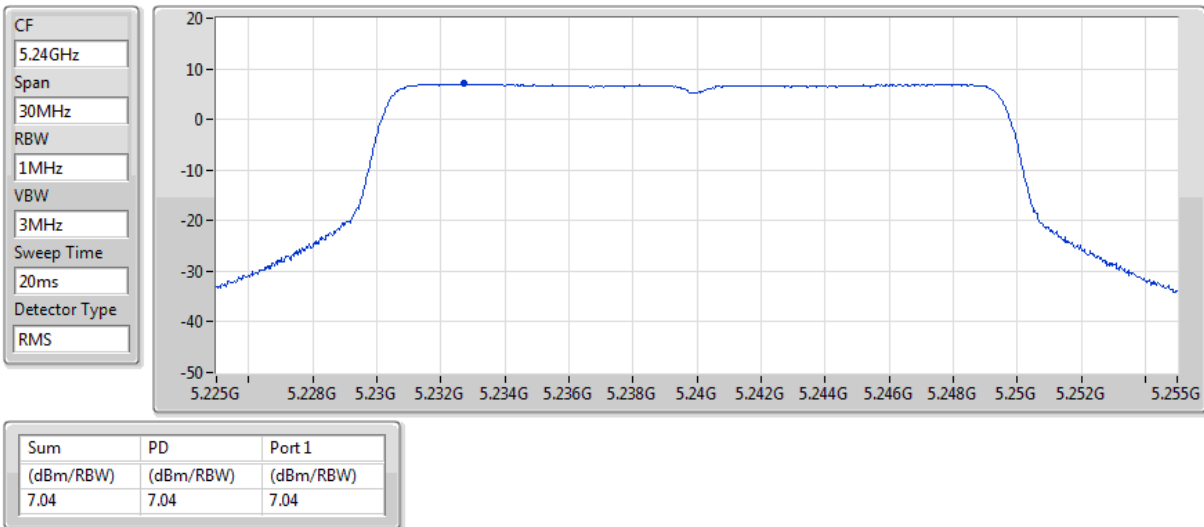


802.11ax HEW20_Nss1,(MCS0)_1TX

PSD

5240MHz

16/07/2021

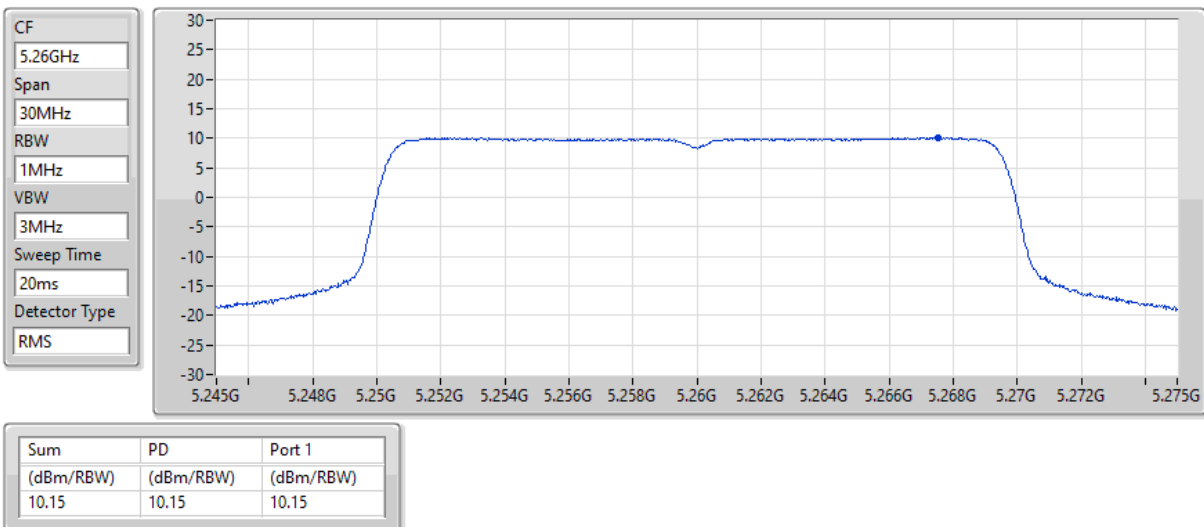


802.11ax HEW20_Nss1,(MCS0)_1TX

PSD

5260MHz

21/06/2021

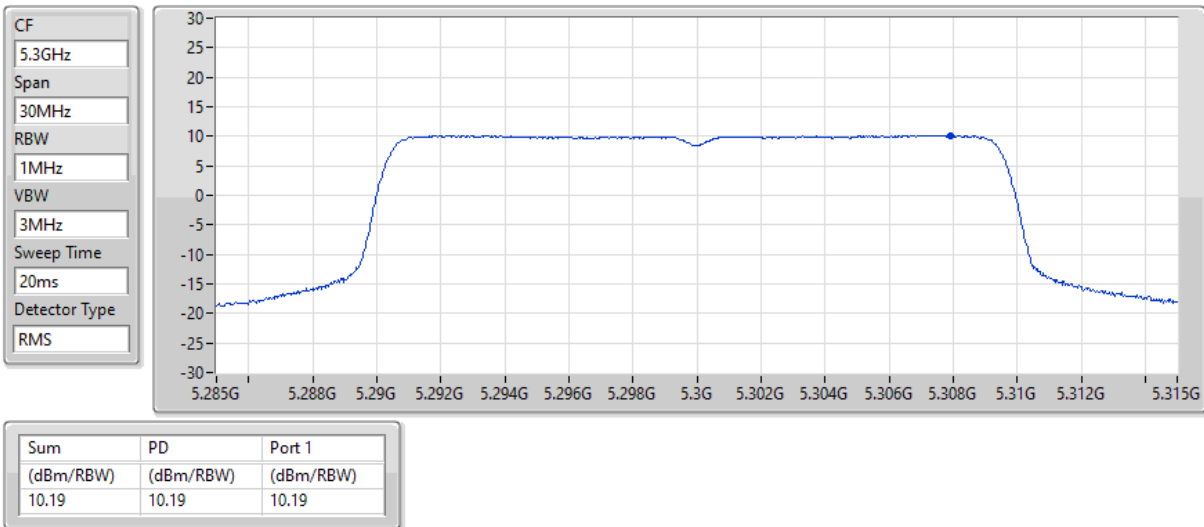


802.11ax HEW20_Nss1,(MCS0)_1TX

PSD

5300MHz

21/06/2021

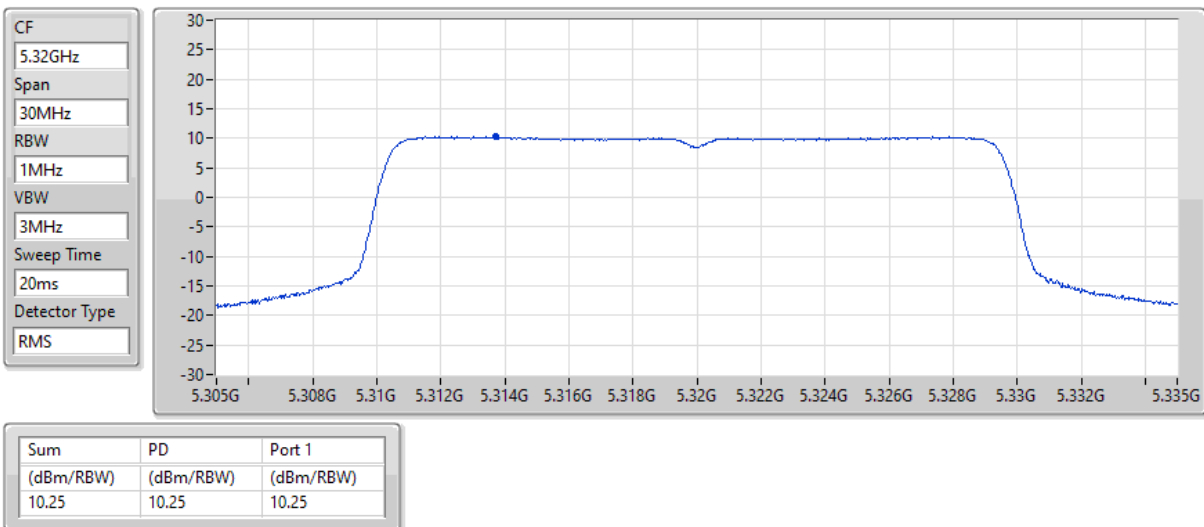


802.11ax HEW20_Nss1,(MCS0)_1TX

PSD

5320MHz

21/06/2021

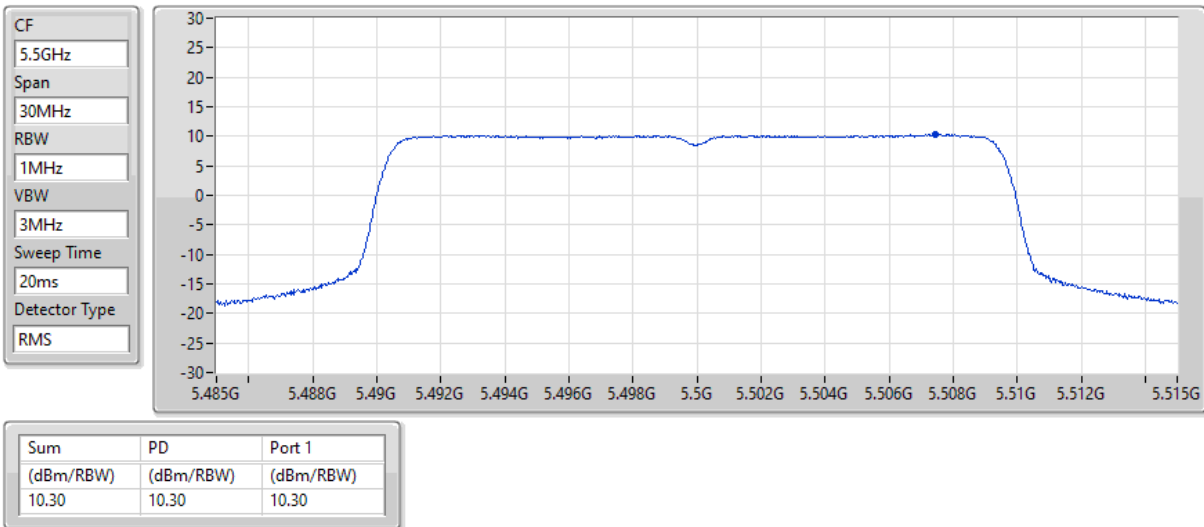


802.11ax HEW20_Nss1,(MCS0)_1TX

PSD

5500MHz

21/06/2021

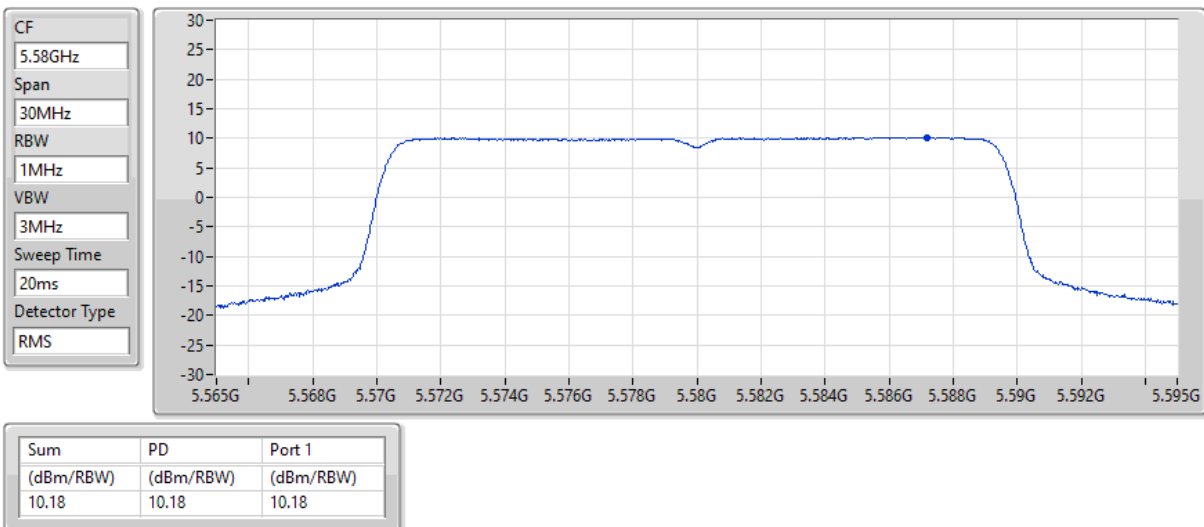


802.11ax HEW20_Nss1,(MCS0)_1TX

PSD

5580MHz

21/06/2021

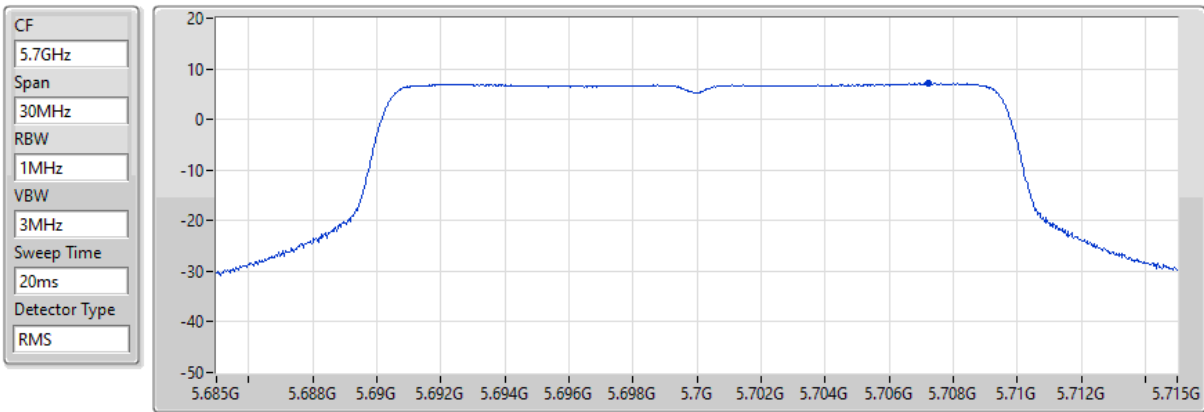


802.11ax HEW20_Nss1,(MCS0)_1TX

PSD

5700MHz

21/06/2021

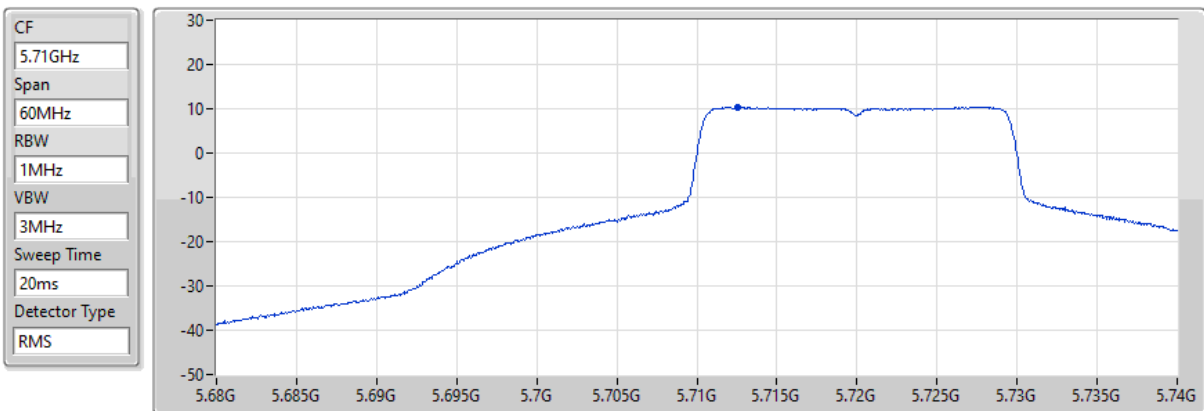


802.11ax HEW20_Nss1,(MCS0)_1TX

PSD

5720MHz Straddle 5.47-5.725GHz

21/06/2021

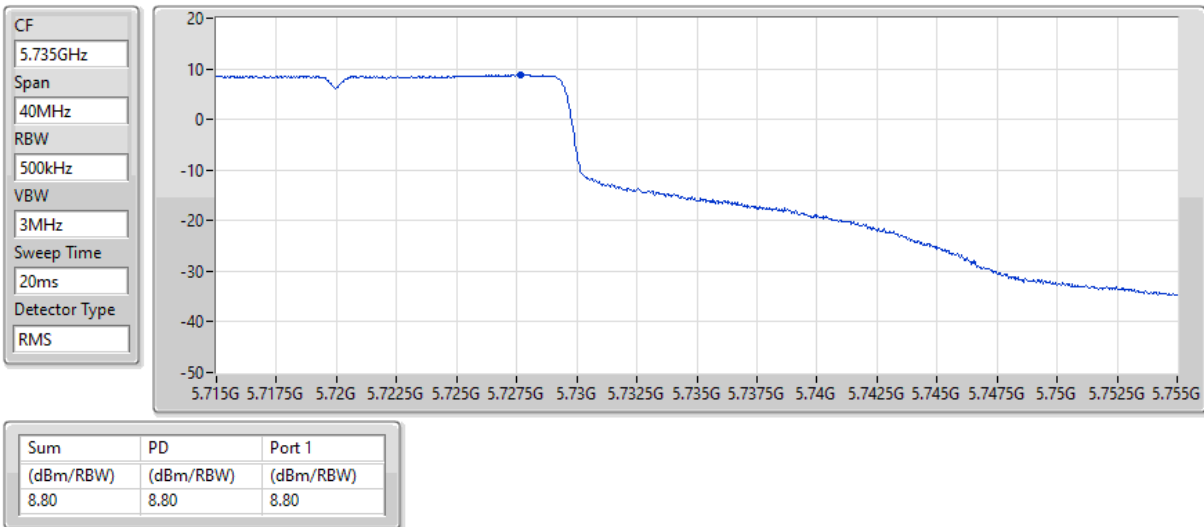


802.11ax HEW20_Nss1,(MCS0)_1TX

PSD

5720MHz Straddle 5.725-5.85GHz

21/06/2021

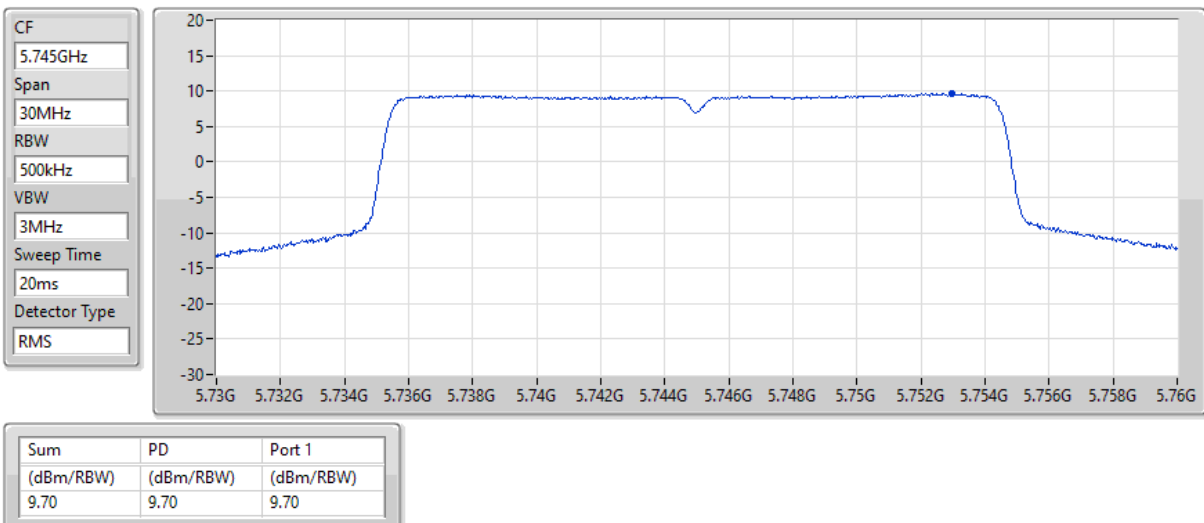


802.11ax HEW20_Nss1,(MCS0)_1TX

PSD

5745MHz

21/06/2021

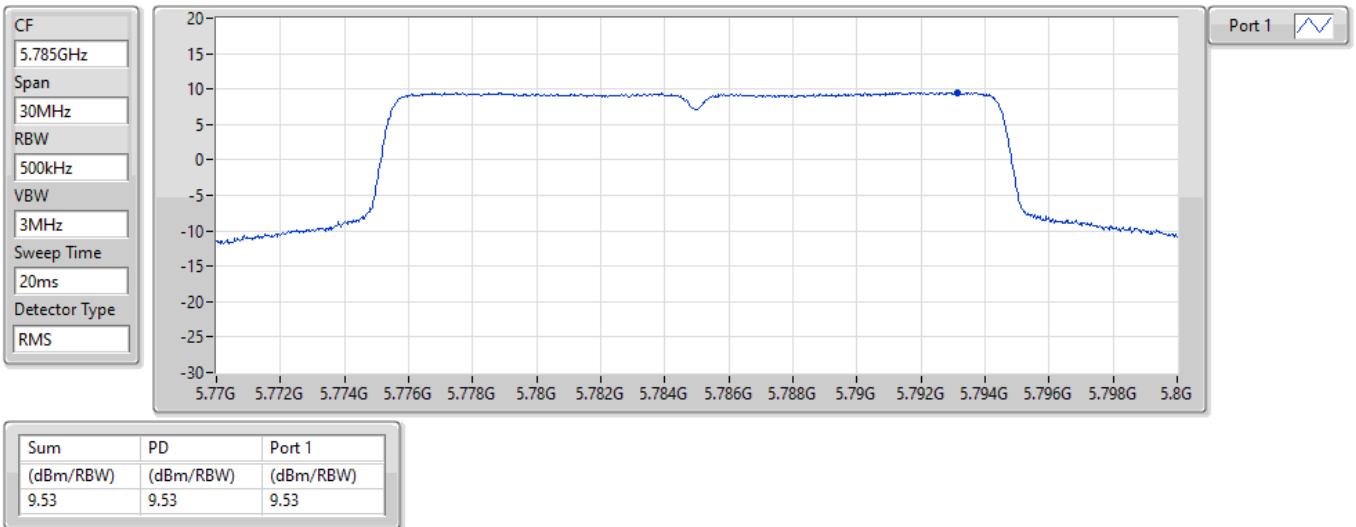


802.11ax HEW20_Nss1,(MCS0)_1TX

PSD

5785MHz

21/06/2021

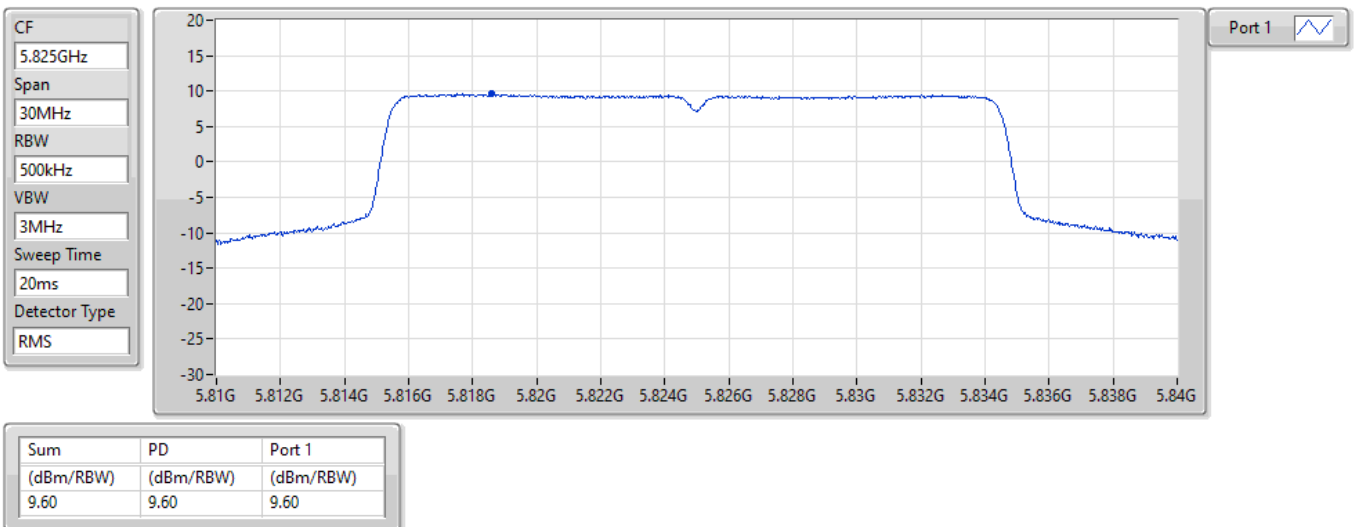


802.11ax HEW20_Nss1,(MCS0)_1TX

PSD

5825MHz

21/06/2021

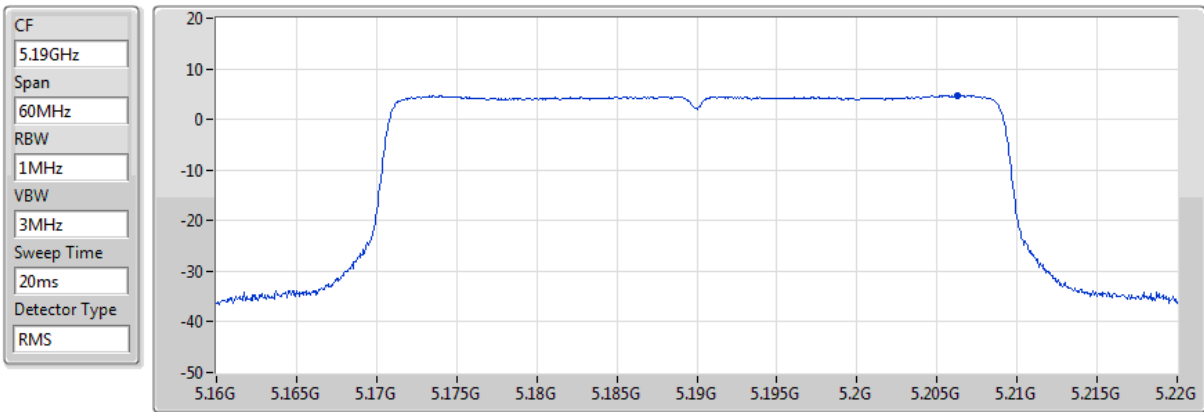


802.11ax HEW40_Nss1,(MCS0)_1TX

PSD

5190MHz

16/07/2021

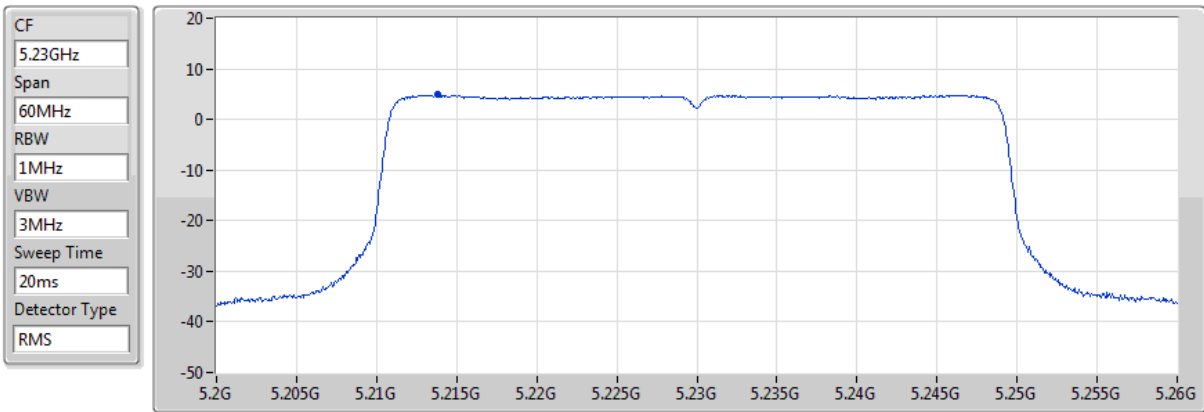


802.11ax HEW40_Nss1,(MCS0)_1TX

PSD

5230MHz

16/07/2021

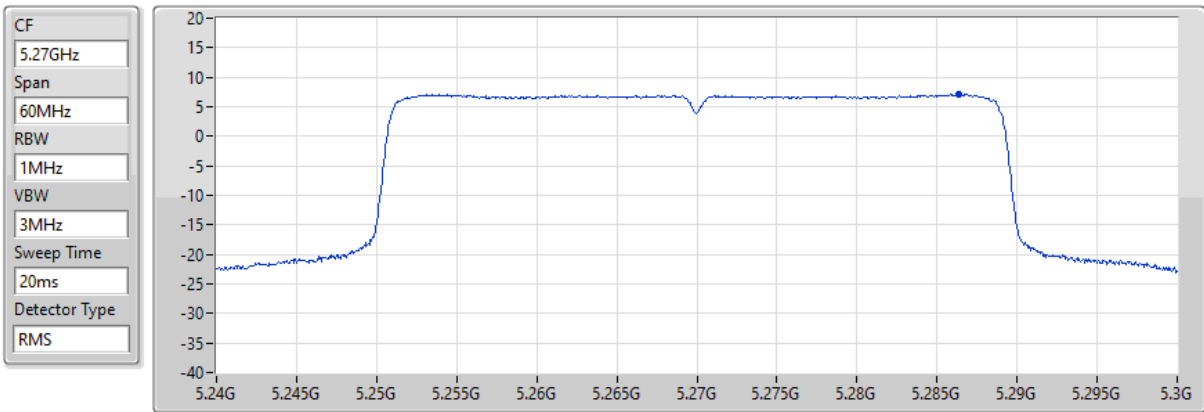


802.11ax HEW40_Nss1,(MCS0)_1TX

PSD

5270MHz

21/06/2021



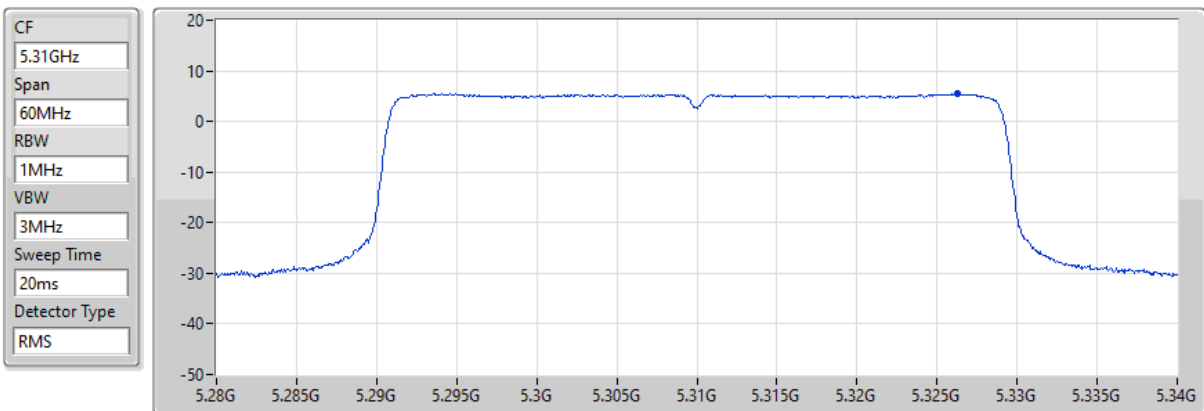
Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
7.17	7.17	7.17

802.11ax HEW40_Nss1,(MCS0)_1TX

PSD

5310MHz

21/06/2021



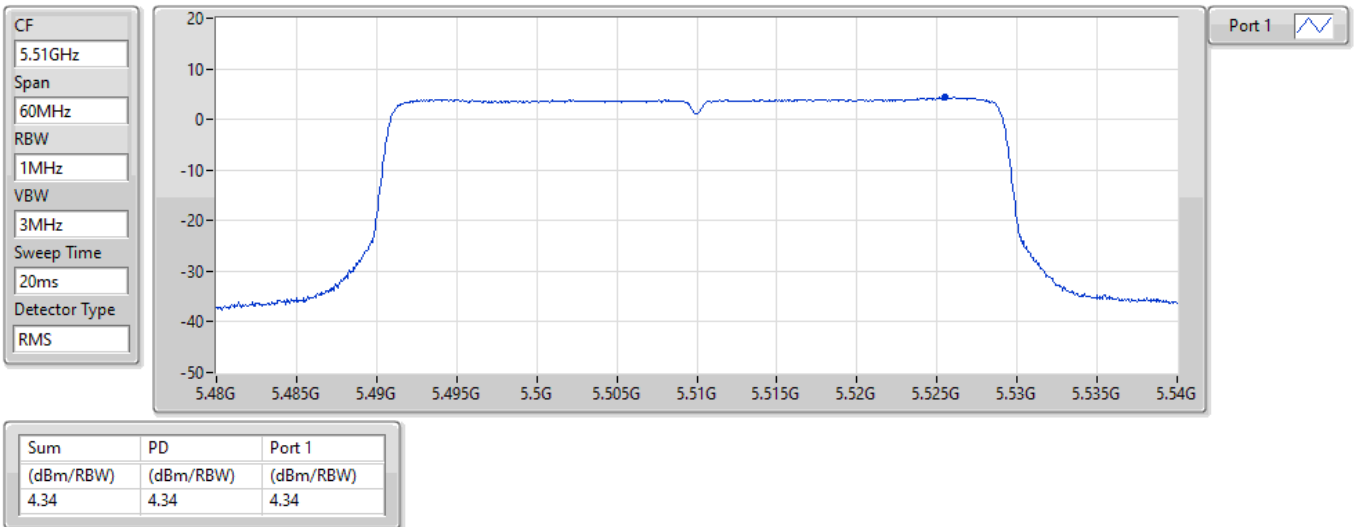
Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
5.50	5.50	5.50

802.11ax HEW40_Nss1,(MCS0)_1TX

PSD

5510MHz

21/06/2021

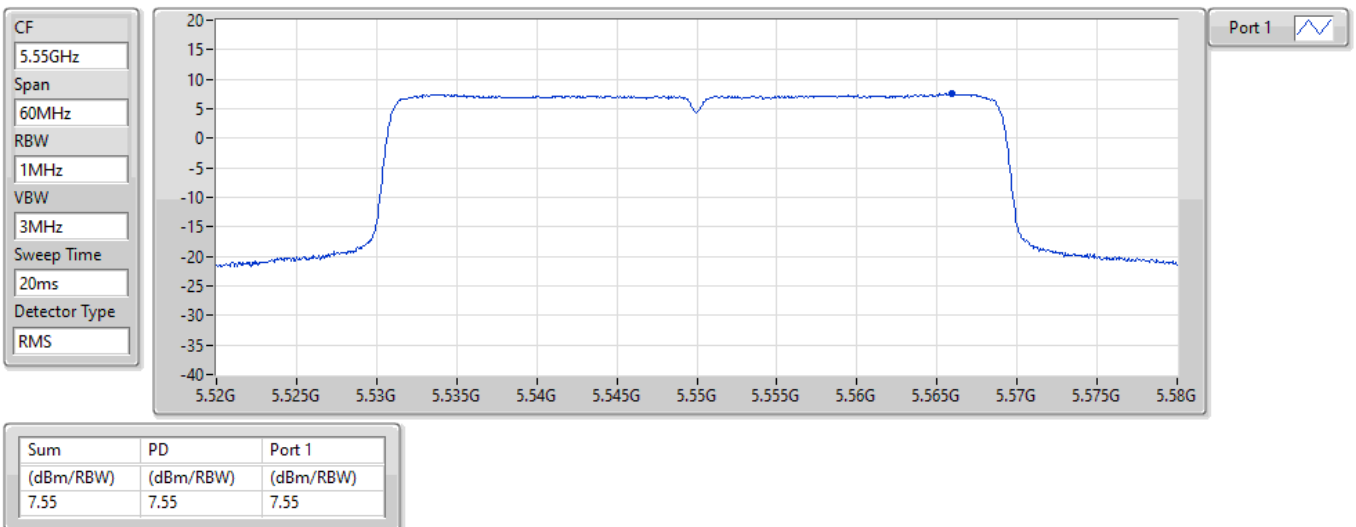


802.11ax HEW40_Nss1,(MCS0)_1TX

PSD

5550MHz

21/06/2021

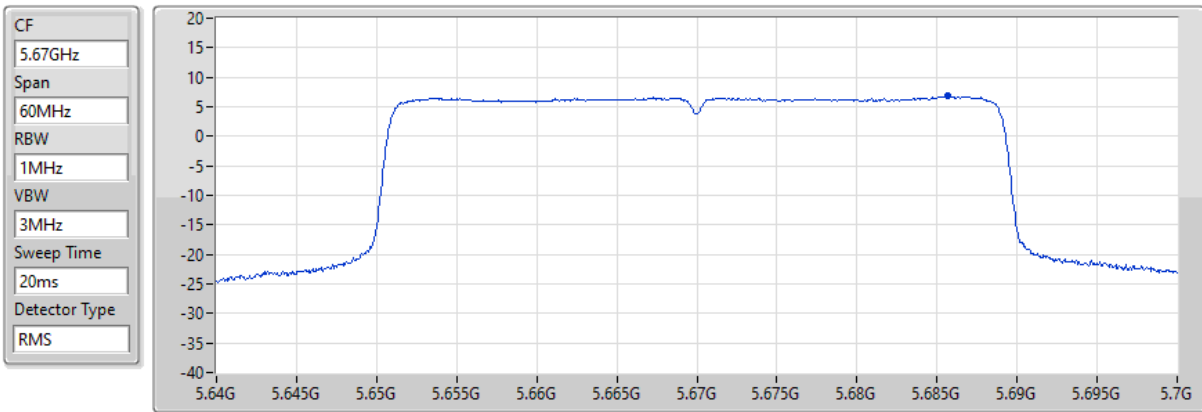


802.11ax HEW40_Nss1,(MCS0)_1TX

PSD

5670MHz

21/06/2021

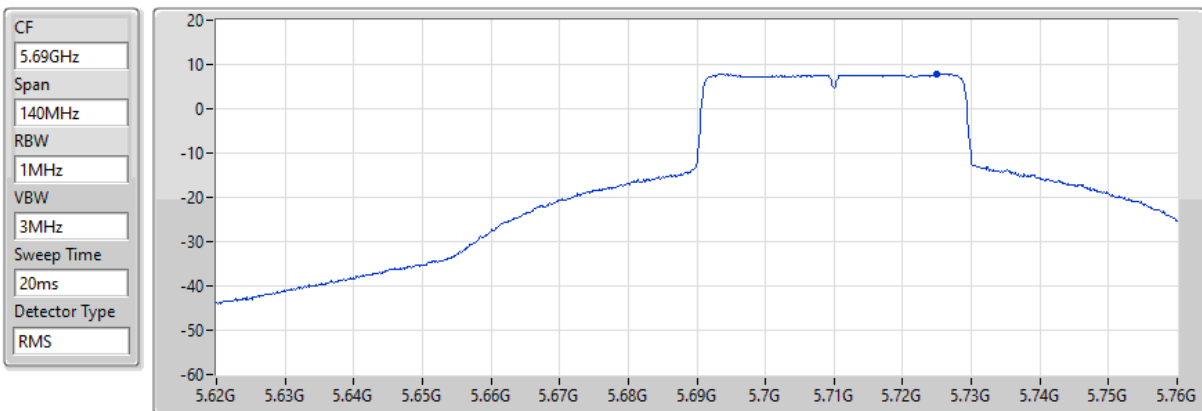


802.11ax HEW40_Nss1,(MCS0)_1TX

PSD

5710MHz Straddle 5.47-5.725GHz

21/06/2021

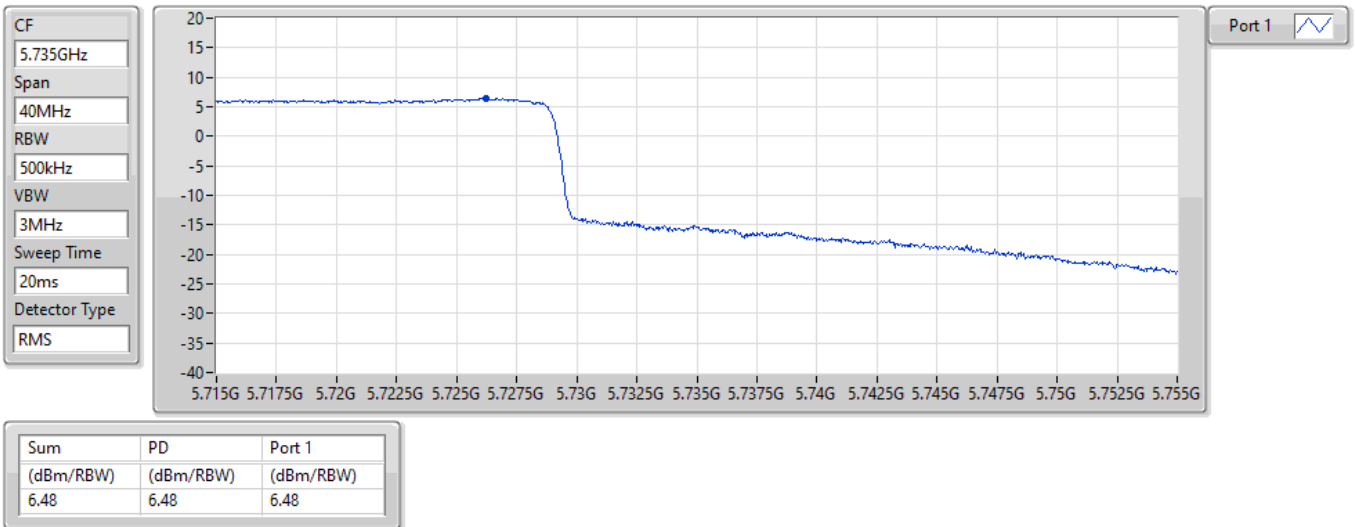


802.11ax HEW40_Nss1,(MCS0)_1TX

PSD

5710MHz Straddle 5.725-5.85GHz

21/06/2021

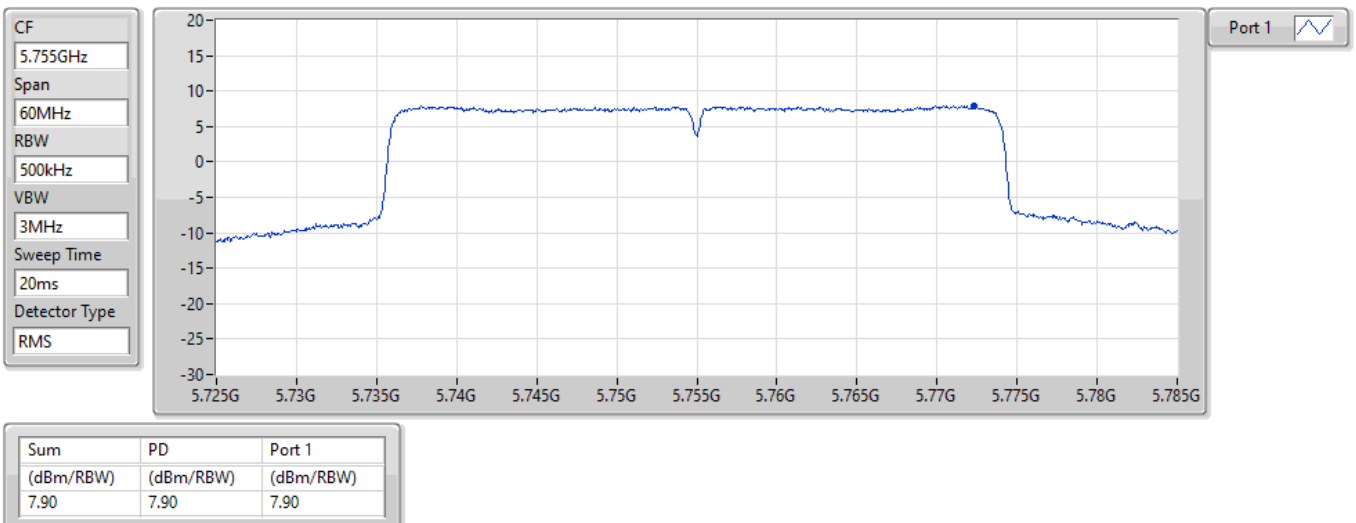


802.11ax HEW40_Nss1,(MCS0)_1TX

PSD

5755MHz

21/06/2021

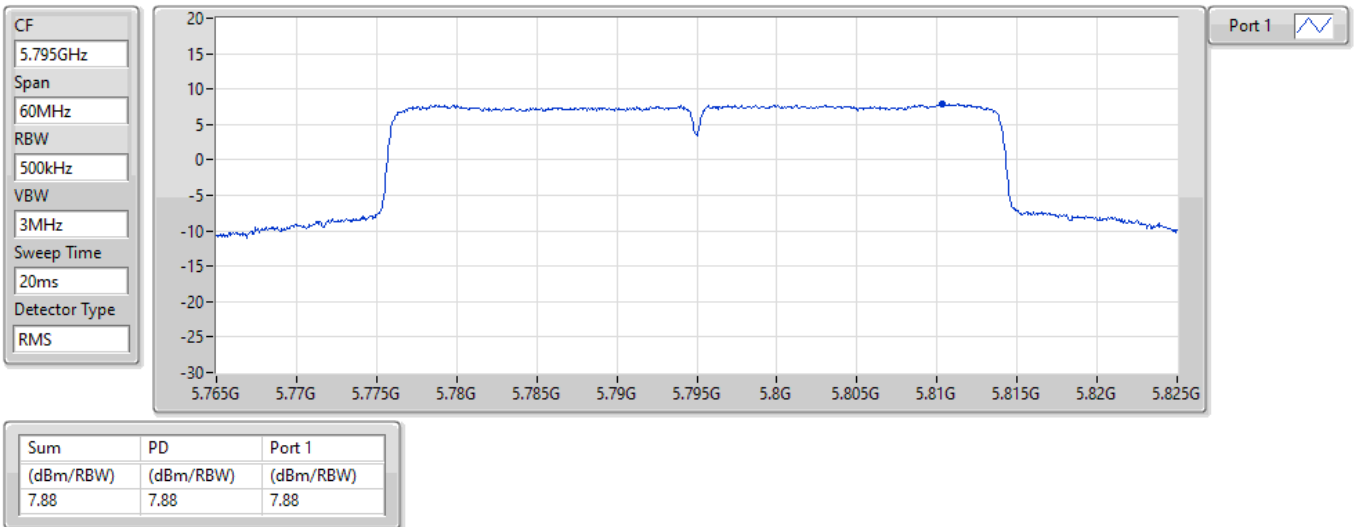


802.11ax HEW40_Nss1,(MCS0)_1TX

PSD

5795MHz

21/06/2021

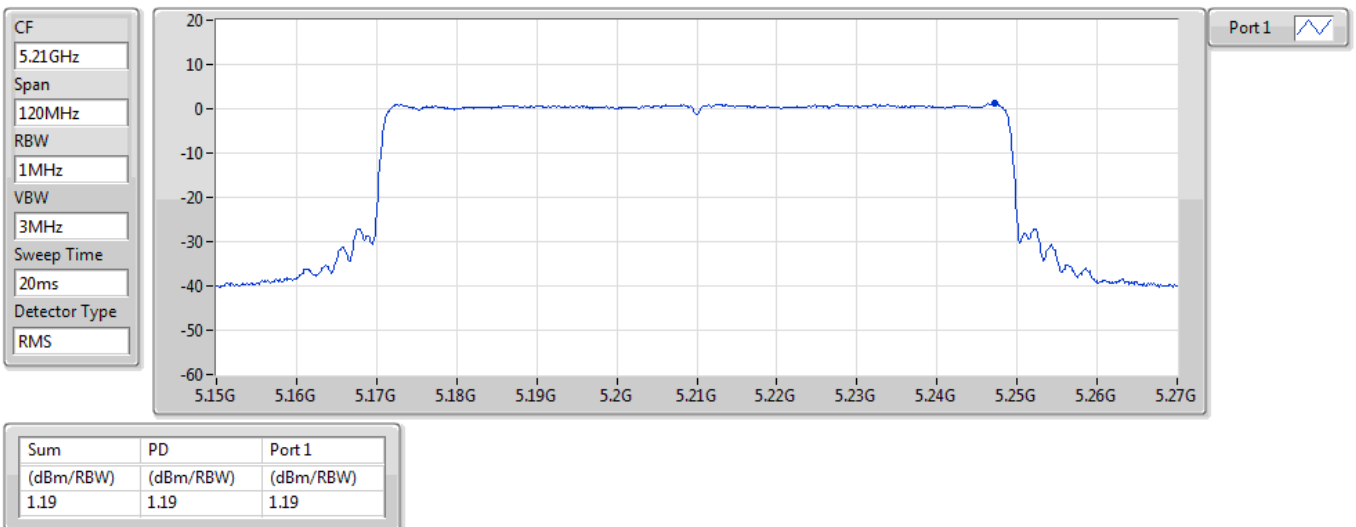


802.11ax HEW80_Nss1,(MCS0)_1TX

PSD

5210MHz

16/07/2021

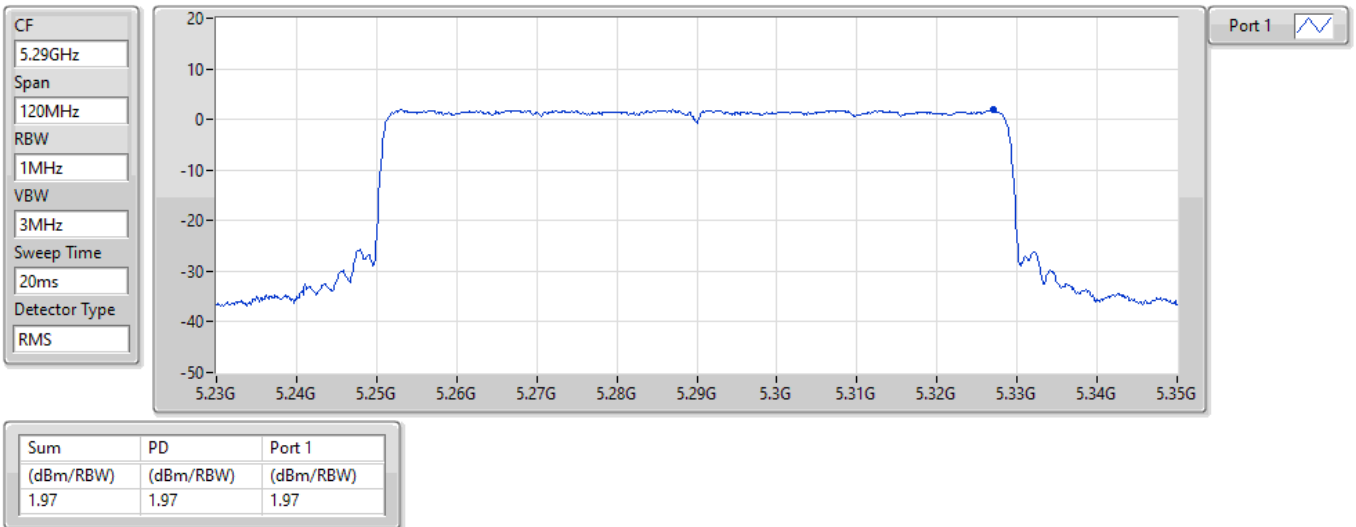


802.11ax HEW80_Nss1,(MCS0)_1TX

PSD

5290MHz

21/06/2021

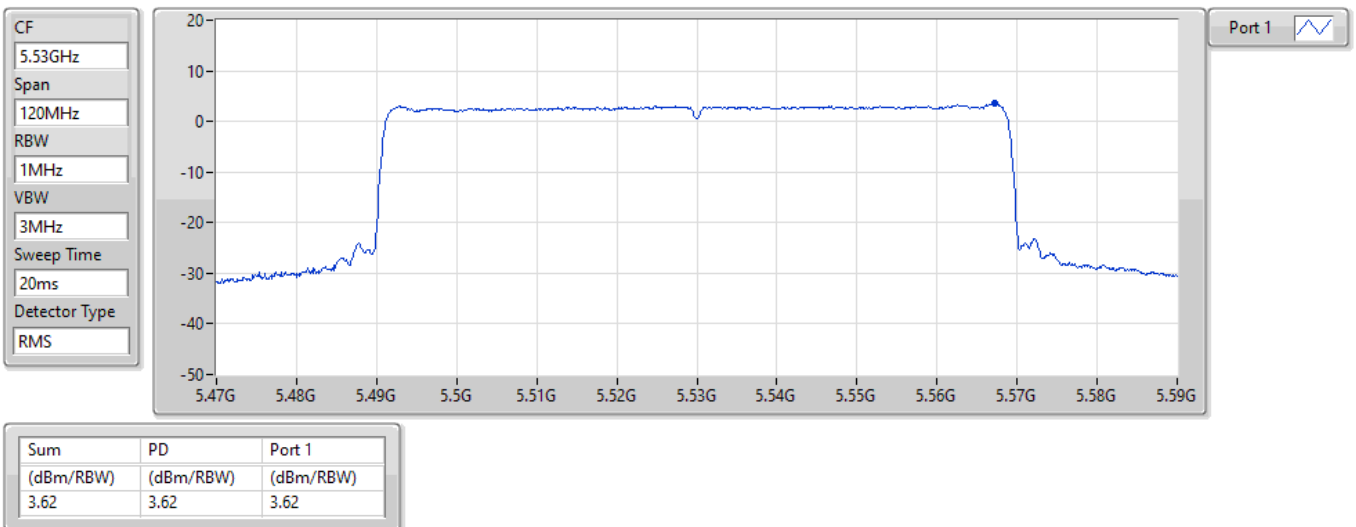


802.11ax HEW80_Nss1,(MCS0)_1TX

PSD

5530MHz

21/06/2021

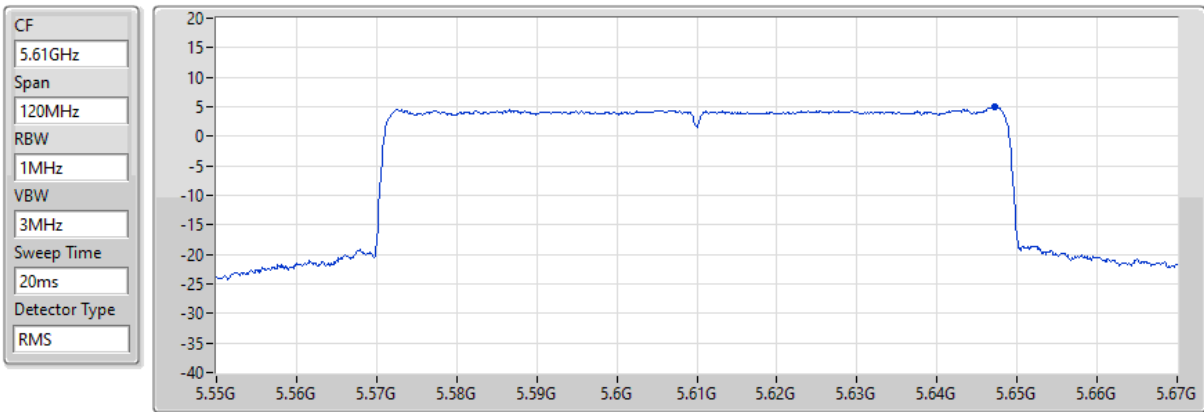


802.11ax HEW80_Nss1,(MCS0)_1TX

PSD

5610MHz

21/06/2021



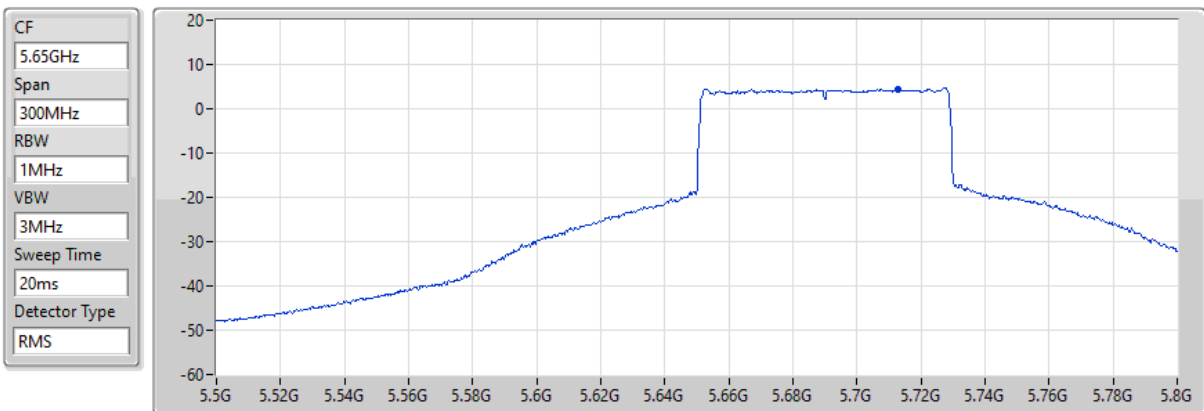
Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
5.05	5.05	5.05

802.11ax HEW80_Nss1,(MCS0)_1TX

PSD

5690MHz Straddle 5.47-5.725GHz

21/06/2021



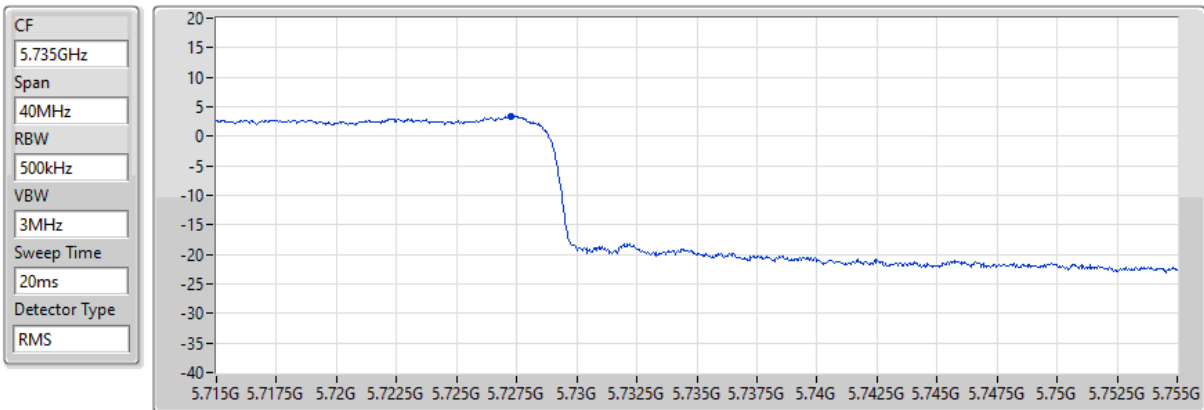
Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
4.44	4.44	4.44

802.11ax HEW80_Nss1,(MCS0)_1TX

PSD

5690MHz Straddle 5.725-5.85GHz

21/06/2021



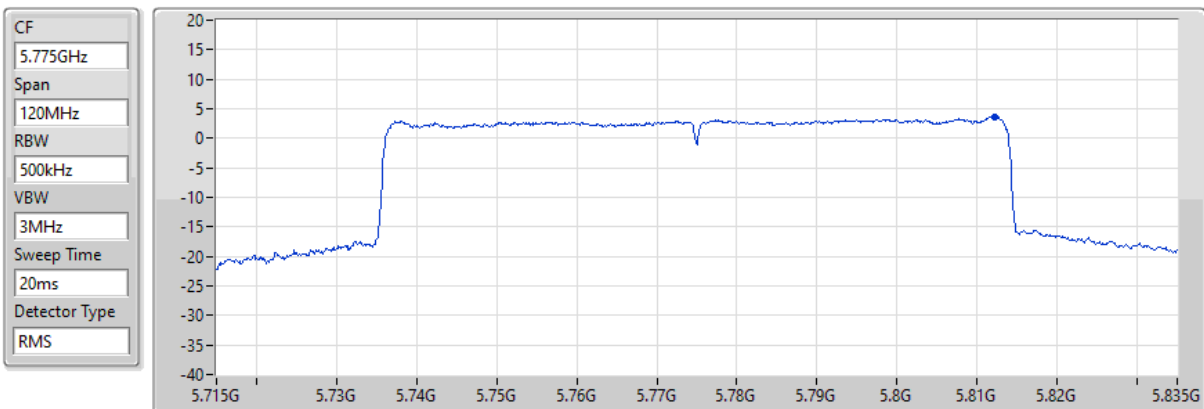
Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
3.43	3.43	3.43

802.11ax HEW80_Nss1,(MCS0)_1TX

PSD

5775MHz

21/06/2021



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
3.64	3.64	3.64

Summary

Mode	PD (dBm/RBW)	EIRP PD (dBm/RBW)
5.15-5.25GHz	-	-
802.11a_Nss1,(6Mbps)_4TX	7.47	13.99
802.11ax HEW20_Nss1,(MCS0)_4TX	6.85	13.37
802.11ax HEW40_Nss1,(MCS0)_4TX	3.24	9.76
802.11ax HEW80_Nss1,(MCS0)_4TX	0.76	7.28
5.25-5.35GHz	-	-
802.11a_Nss1,(6Mbps)_4TX	10.46	16.98
802.11ax HEW20_Nss1,(MCS0)_4TX	10.21	16.73
802.11ax HEW40_Nss1,(MCS0)_4TX	7.64	14.16
802.11ax HEW80_Nss1,(MCS0)_4TX	4.82	11.34
5.47-5.725GHz	-	-
802.11a_Nss1,(6Mbps)_4TX	10.47	16.99
802.11ax HEW20_Nss1,(MCS0)_4TX	10.45	16.97
802.11ax HEW40_Nss1,(MCS0)_4TX	7.87	14.39
802.11ax HEW80_Nss1,(MCS0)_4TX	5.11	11.63
5.725-5.85GHz	-	-
802.11a_Nss1,(6Mbps)_4TX	16.06	22.58
802.11ax HEW20_Nss1,(MCS0)_4TX	14.98	21.50
802.11ax HEW40_Nss1,(MCS0)_4TX	12.24	18.76
802.11ax HEW80_Nss1,(MCS0)_4TX	9.51	16.03

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

Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	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	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	6.52	1.49	1.59	1.96	1.65	7.33	16.48	13.85	23.00
5200MHz	Pass	6.52	1.41	1.54	2.32	2.13	7.47	16.48	13.99	23.00
5240MHz	Pass	6.52	1.11	0.96	2.09	2.19	7.16	16.48	13.68	23.00
5260MHz	Pass	6.52	3.88	4.50	5.20	5.19	10.39	10.48	16.91	17.00
5300MHz	Pass	6.52	4.20	4.30	4.92	5.20	10.38	10.48	16.90	17.00
5320MHz	Pass	6.52	4.18	4.58	4.93	5.08	10.46	10.48	16.98	17.00
5500MHz	Pass	6.52	3.67	4.29	4.92	5.54	10.45	10.48	16.97	17.00
5580MHz	Pass	6.52	3.70	4.62	4.71	5.64	10.47	10.48	16.99	17.00
5700MHz	Pass	6.52	4.40	4.68	4.06	5.92	10.45	10.48	16.97	17.00
5720MHz Straddle 5.47-5.725GHz	Pass	6.52	4.69	4.59	3.78	5.68	10.44	10.48	16.96	17.00
5720MHz Straddle 5.725-5.85GHz	Pass	6.52	3.23	2.64	1.85	3.98	8.84	29.48	15.36	36.00
5745MHz	Pass	6.52	9.68	10.08	9.49	11.12	15.90	29.48	22.42	36.00
5785MHz	Pass	6.52	10.07	8.85	9.75	9.66	15.28	29.48	21.80	36.00
5825MHz	Pass	6.52	9.72	10.32	9.23	11.33	16.06	29.48	22.58	36.00
802.11ax HEW20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	6.52	0.87	1.79	1.27	-0.31	6.85	16.48	13.37	23.00
5200MHz	Pass	6.52	0.81	1.53	1.28	-1.23	6.52	16.48	13.04	23.00
5240MHz	Pass	6.52	0.73	0.91	1.04	-1.05	6.36	16.48	12.88	23.00
5260MHz	Pass	6.52	3.53	4.28	4.49	4.67	10.21	10.48	16.73	17.00
5300MHz	Pass	6.52	3.39	4.18	4.37	4.53	10.07	10.48	16.59	17.00
5320MHz	Pass	6.52	3.57	4.12	4.38	4.61	10.16	10.48	16.68	17.00
5500MHz	Pass	6.52	2.70	4.16	4.93	5.03	10.27	10.48	16.79	17.00
5580MHz	Pass	6.52	2.68	4.31	4.83	5.24	10.31	10.48	16.83	17.00
5700MHz	Pass	6.52	4.11	4.40	3.93	5.41	10.45	10.48	16.97	17.00
5720MHz Straddle 5.47-5.725GHz	Pass	6.52	3.84	4.25	3.88	5.40	10.35	10.48	16.87	17.00
5720MHz Straddle 5.725-5.85GHz	Pass	6.52	2.46	2.69	2.22	4.01	8.85	29.48	15.37	36.00
5745MHz	Pass	6.52	8.37	8.89	8.03	10.04	14.84	29.48	21.36	36.00
5785MHz	Pass	6.52	8.37	9.10	7.94	10.22	14.97	29.48	21.49	36.00
5825MHz	Pass	6.52	8.49	9.11	7.92	10.27	14.98	29.48	21.50	36.00
802.11ax HEW40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	6.52	-2.81	-1.75	-2.21	-4.19	3.24	16.48	9.76	23.00
5230MHz	Pass	6.52	-2.98	-2.45	-2.16	-3.62	3.06	16.48	9.58	23.00
5270MHz	Pass	6.52	0.85	1.76	1.83	2.20	7.64	10.48	14.16	17.00
5310MHz	Pass	6.52	0.91	1.36	1.81	1.93	7.48	10.48	14.00	17.00
5510MHz	Pass	6.52	0.37	1.60	2.10	2.27	7.58	10.48	14.10	17.00
5550MHz	Pass	6.52	0.12	1.46	2.09	2.39	7.56	10.48	14.08	17.00
5670MHz	Pass	6.52	0.48	1.78	2.08	3.03	7.87	10.48	14.39	17.00
5710MHz Straddle 5.47-5.725GHz	Pass	6.52	1.52	1.42	1.41	2.73	7.75	10.48	14.27	17.00
5710MHz Straddle 5.725-5.85GHz	Pass	6.52	0.19	0.11	-0.24	1.71	6.45	29.48	12.97	36.00
5755MHz	Pass	6.52	5.84	6.00	5.64	7.01	12.02	29.48	18.54	36.00
5795MHz	Pass	6.52	5.74	6.33	5.68	7.16	12.24	29.48	18.76	36.00
802.11ax HEW80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	6.52	-5.42	-4.30	-4.82	-6.16	0.76	16.48	7.28	23.00
5290MHz	Pass	6.52	-2.11	-1.06	-0.97	-0.67	4.82	10.48	11.34	17.00
5530MHz	Pass	6.52	-2.76	-1.32	-0.59	-0.79	4.62	10.48	11.14	17.00
5610MHz	Pass	6.52	-2.42	-0.59	-0.75	-0.10	5.11	10.48	11.63	17.00
5690MHz Straddle 5.47-5.725GHz	Pass	6.52	-2.60	-1.64	-0.96	-0.52	4.47	10.48	10.99	17.00
5690MHz Straddle 5.725-5.85GHz	Pass	6.52	-3.74	-2.93	-2.78	-1.79	3.20	29.48	9.72	36.00
5775MHz	Pass	6.52	2.98	3.47	3.21	4.45	9.51	29.48	16.03	36.00

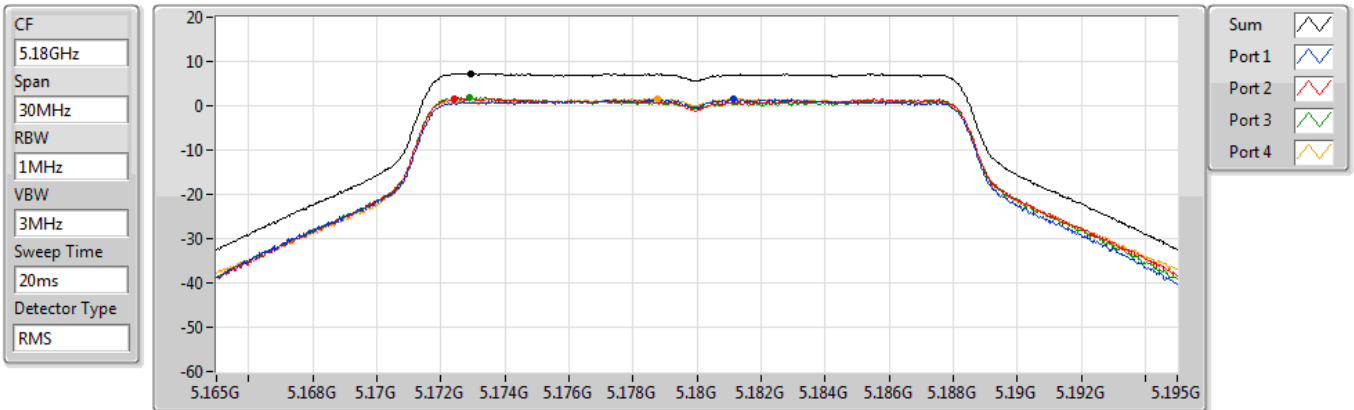
DG = Directional Gain; RBW = 500kHz for 5.725-5.85GHz band / 1MHz for other band;
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; Port X = Port X Power Density;

802.11a_Nss1,(6Mbps)_4TX

PSD

5180MHz

16/07/2021



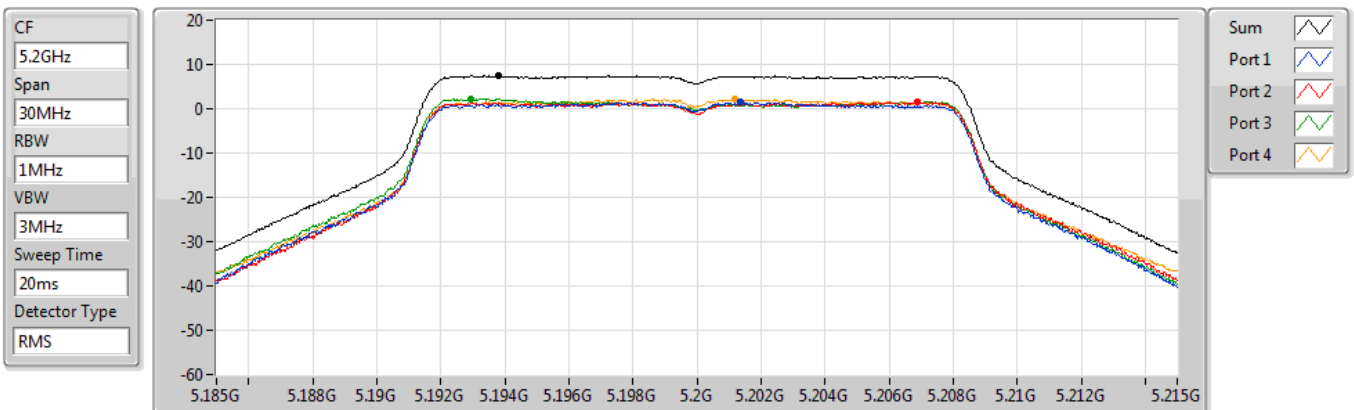
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
7.33	7.33	1.49	1.59	1.96	1.65

802.11a_Nss1,(6Mbps)_4TX

PSD

5200MHz

16/07/2021



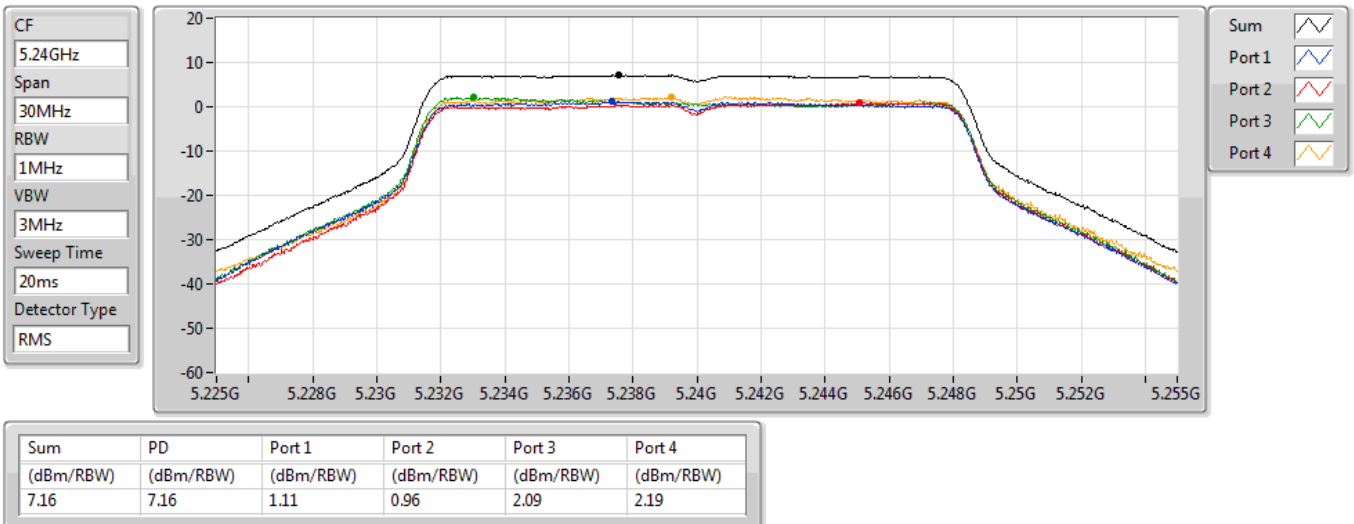
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
7.47	7.47	1.41	1.54	2.32	2.13

802.11a_Nss1,(6Mbps)_4TX

PSD

5240MHz

16/07/2021

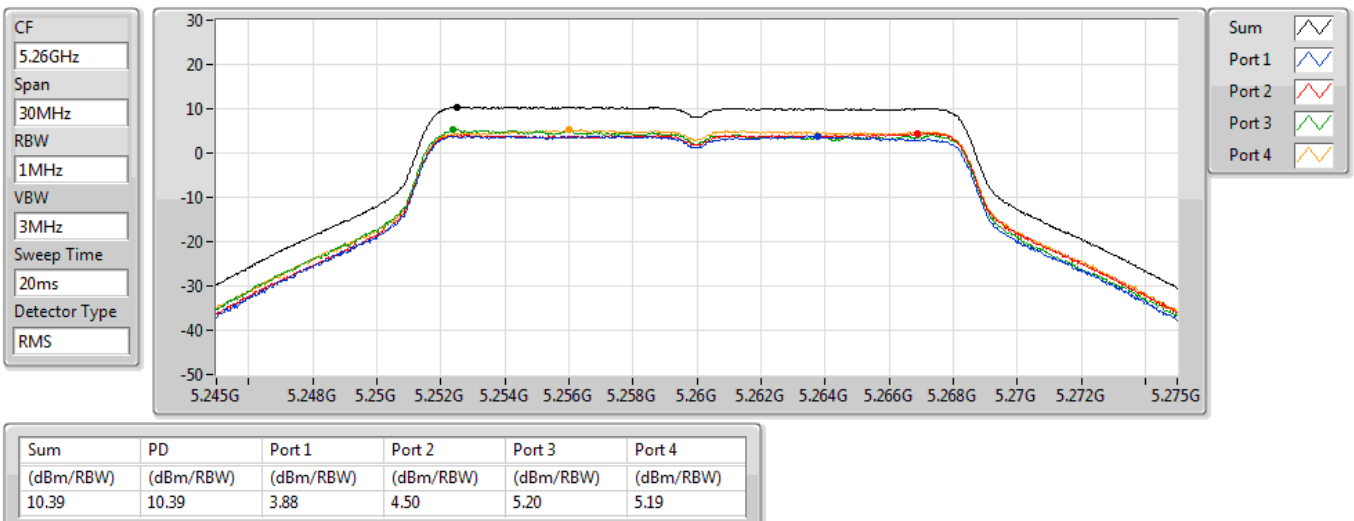


802.11a_Nss1,(6Mbps)_4TX

PSD

5260MHz

16/03/2021

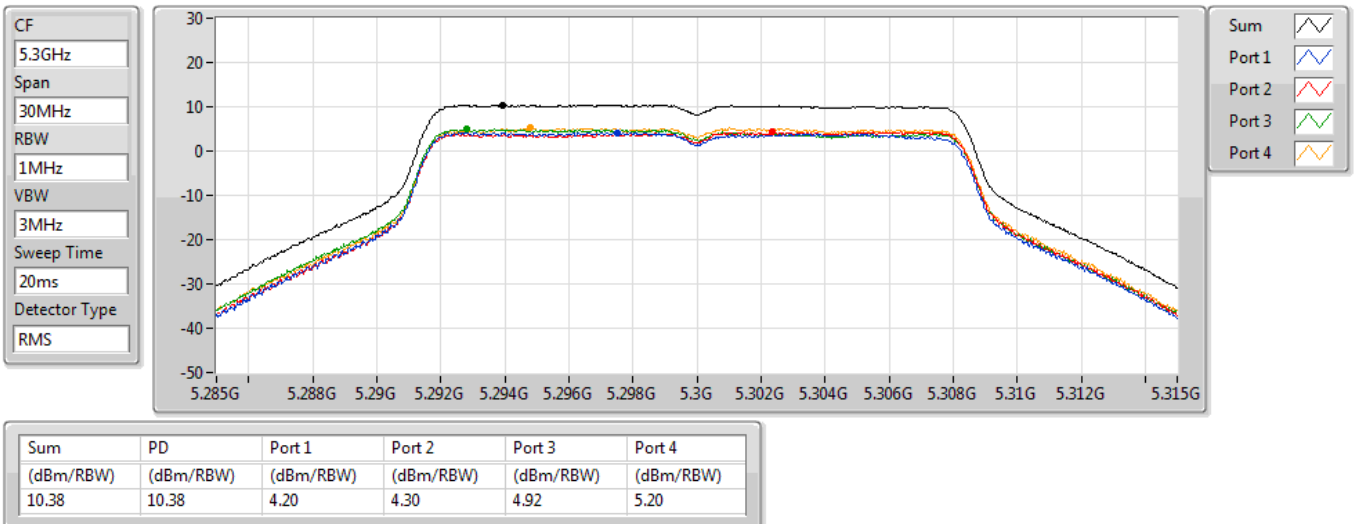


802.11a_Nss1,(6Mbps)_4TX

PSD

5300MHz

16/03/2021

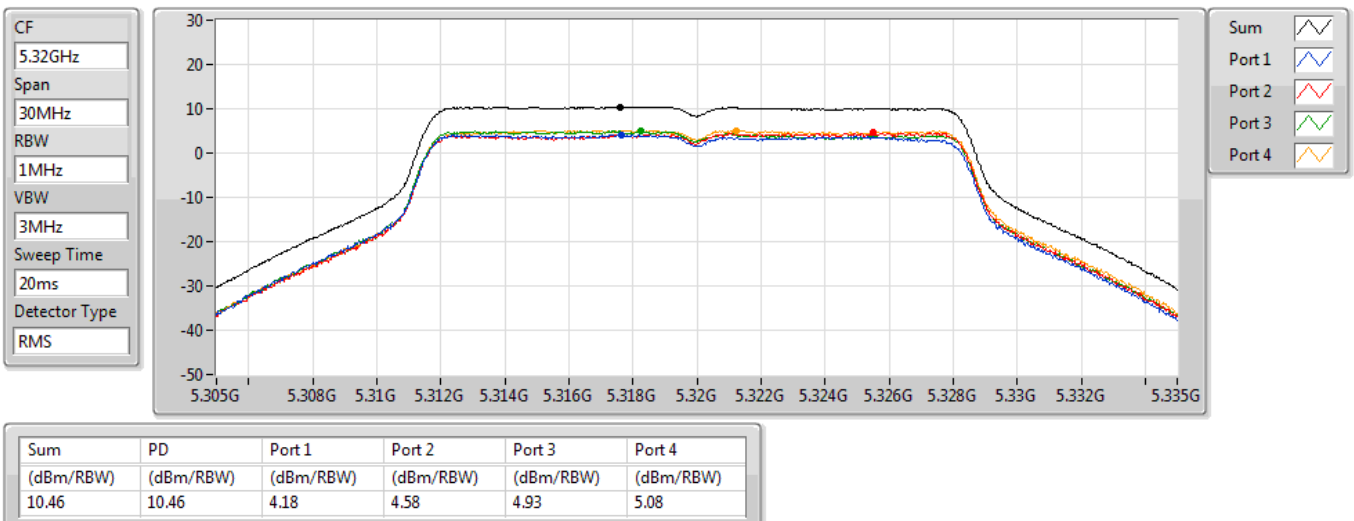


802.11a_Nss1,(6Mbps)_4TX

PSD

5320MHz

16/03/2021

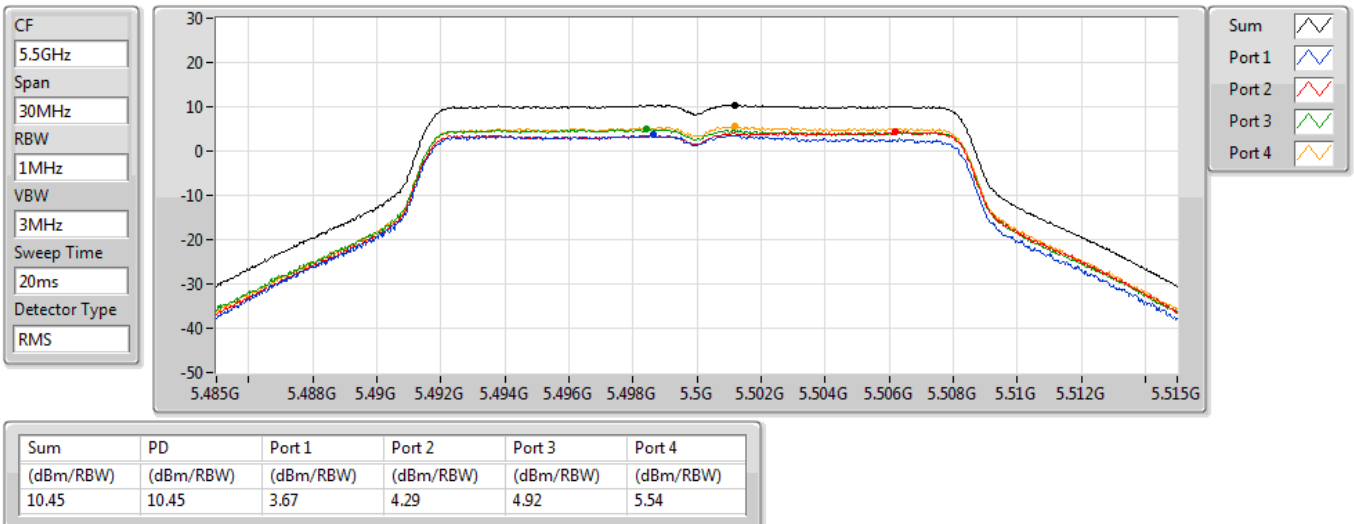


802.11a_Nss1,(6Mbps)_4TX

PSD

5500MHz

16/03/2021

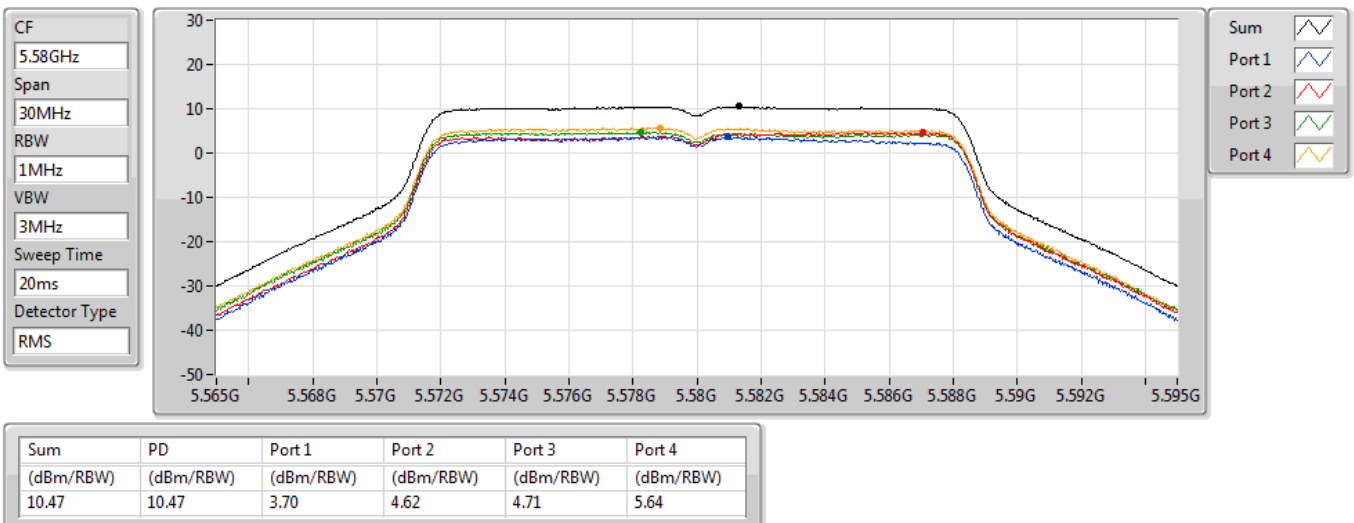


802.11a_Nss1,(6Mbps)_4TX

PSD

5580MHz

16/03/2021

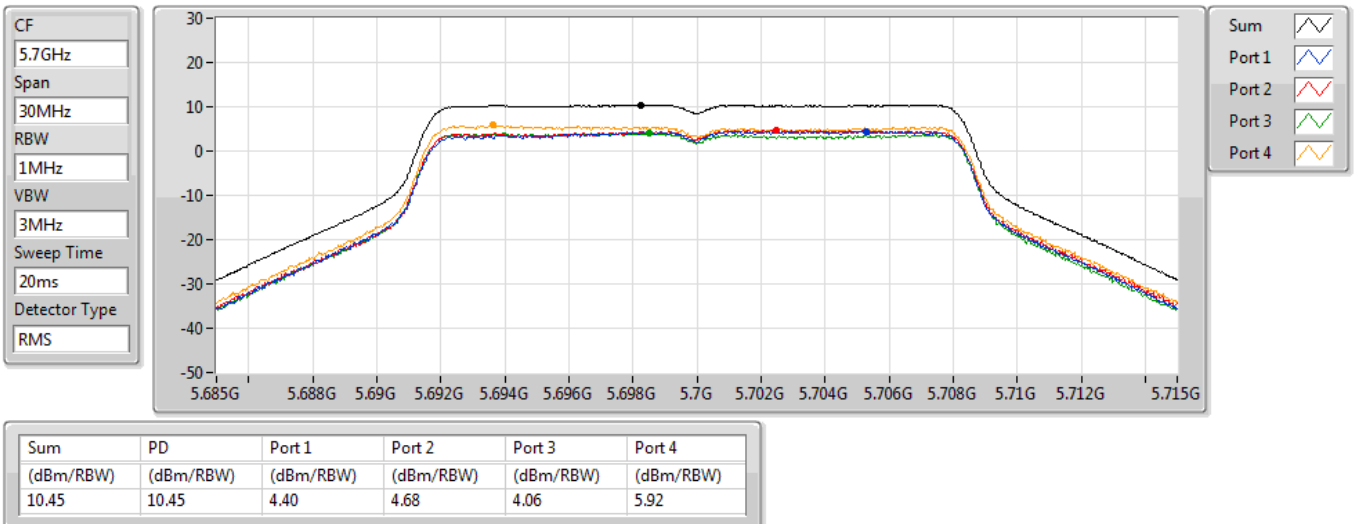


802.11a_Nss1,(6Mbps)_4TX

PSD

5700MHz

16/03/2021

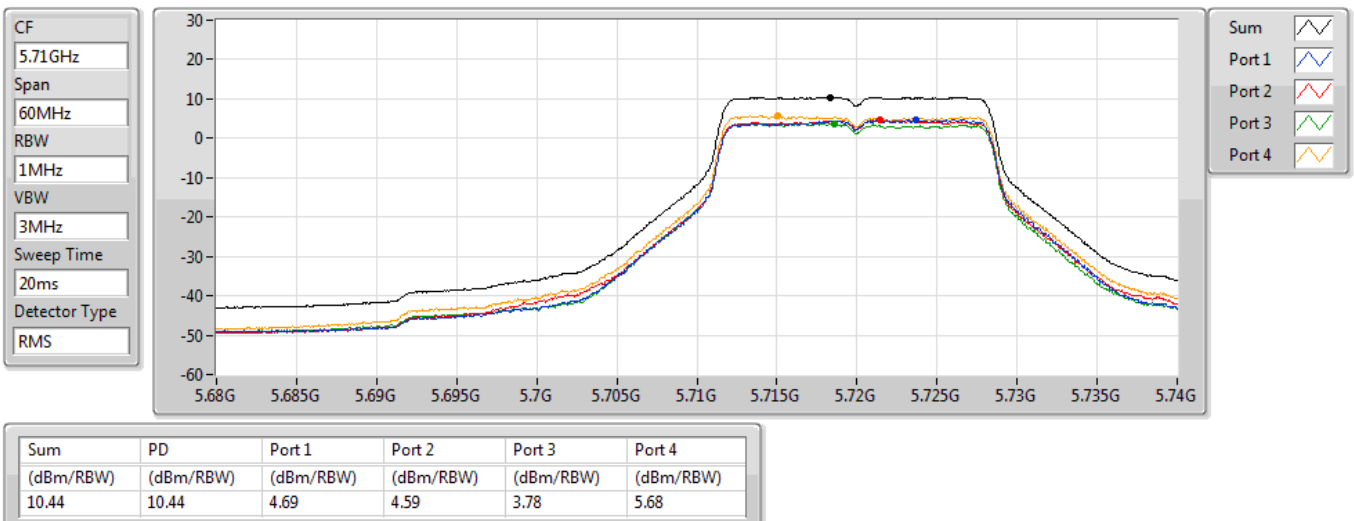


802.11a_Nss1,(6Mbps)_4TX

PSD

5720MHz Straddle 5.47-5.725GHz

16/03/2021

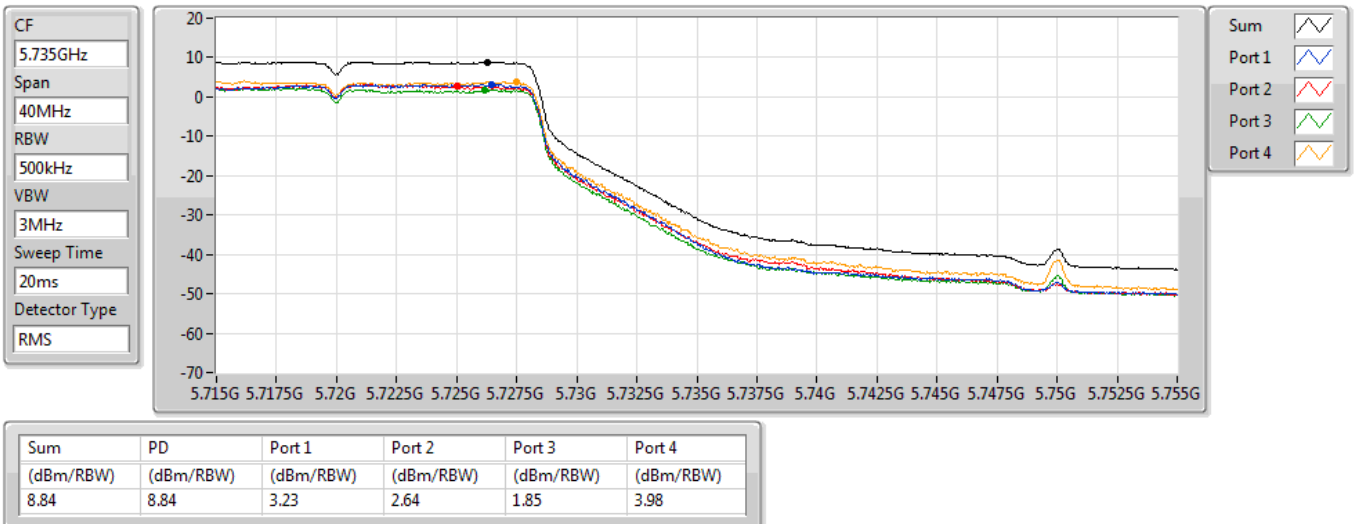


802.11a_Nss1,(6Mbps)_4TX

5720MHz Straddle 5.725-5.85GHz

PSD

16/03/2021



802.11a_Nss1,(6Mbps)_4TX

5745MHz

PSD

16/03/2021

