

FCC Radio Test Report

FCC ID : TVE-3111BB056

Equipment : Secured Wireless Access Point

Brand Name : FORTINET

Model Name : FortiAP U431Fxxxxxx, FAP-U431Fxxxxxx,
FORTIAP-U431Fxxxxxx
FortiAP U433Fxxxxxx, FAP-U433Fxxxxxx,
FORTIAP-U433Fxxxxxx
(where "x" can be used as "A-Z", or "0-9", or "-", or
blank for software changes or marketing purposes only)

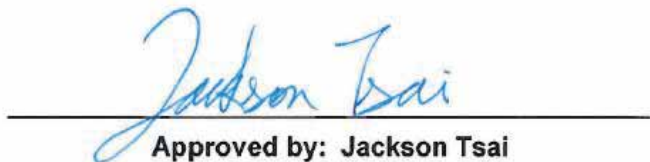
Applicant : Fortinet, Inc.
899 Kifer Road, Sunnyvale, CA 94086, USA

Manufacturer : Universal Global Scientific Industrial Co., Ltd
141, Lane 351, Sec. 1, Taiping Road, Tsao-tuen,
Nantou 54261, Taiwan

Standard : 47 CFR FCC Part 15.407

The product was received on Dec. 06, 2021, and testing was started from Dec. 11, 2021 and completed on Dec. 28, 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 variant report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC. Hsinhua Laboratory, the test report shall not be reproduced except in full.



Approved by: Jackson Tsai

SPORTON INTERNATIONAL INC. Hsinhua Laboratory

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



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TEL : 886-3-3273456
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Report Template No.: HE1-D1 Ver4.4
FCC ID: TVE-3111BB056



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	-

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

The EUT has three radio chip.

Function	Radio 1	Radio 2	Radio 3
WiFi 2.4G	X	V	V
WiFi 5G	V	V	V (Only RX)
Bluetooth	X	X	V

1.1.1 RF General Information

<Radio1>

Frequency Range (MHz)	IEEE Std. 802.11	Ch. Frequency (MHz)	Channel Number
5150-5250	a, n (HT20), ac (VHT20), ax (HEW20)	5180-5240	36-48 [4]
5250-5350		5260-5320	52-64 [4]
5470-5725		5500-5700	100-140 [11]
Straddle 5720		5720	144 [1]
5725-5850		5745-5825	149-165 [5]
5150-5250	n (HT40), ac (VHT40), ax (HEW40)	5190-5230	38-46 [2]
5250-5350		5270-5310	54-62 [2]
5470-5725		5510-5670	102-134 [5]
Straddle 5710		5710	142 [1]
5725-5850		5755-5795	151-159 [2]
5150-5250	ac (VHT80), ax (HEW80)	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]
5150-5350	ac (VHT160), ax (HEW160)	5250	50 [1]
5470-5725		5570	114 [1]

Non-Beamforming

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



Band	Mode	BWch (MHz)	Nant
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
5.15-5.25GHz	802.11ax HEW160	160	4TX
5.25-5.35GHz	802.11ax HEW160	160	4TX
5.47-5.725GHz	802.11ax HEW160	160	4TX

Beamforming

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
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
5.15-5.25GHz	802.11ax HEW160-BF	160	4TX
5.25-5.35GHz	802.11ax HEW160-BF	160	4TX
5.47-5.725GHz	802.11ax HEW160-BF	160	4TX

<Radio2>

Frequency Range (MHz)	IEEE Std. 802.11	Ch. Frequency (MHz)	Channel Number
5470-5725	a, n (HT20), ac (VHT20), ax (HEW20)	5500-5700	100-140 [11]
Straddle 5720		5720	144 [1]
5725-5850		5745-5825	149-165 [5]
5470-5725	n (HT40), ac (VHT40), ax (HEW40)	5510-5670	102-134 [5]
Straddle 5710		5710	142 [1]
5725-5850		5755-5795	151-159 [2]
5470-5725	ac (VHT80), ax (HEW80)	5530-5610	106-122 [2]
Straddle 5690		5690	138 [1]
5725-5850		5775	155 [1]
5470-5725	ac (VHT160), ax (HEW160)	5570	114 [1]

Non-Beamforming

Band	Mode	BWch (MHz)	Nant
5.47-5.725GHz	802.11a	20	4TX
5.725-5.85GHz	802.11a	20	4TX
5.47-5.725GHz	802.11ax HEW20	20	4TX
5.725-5.85GHz	802.11ax HEW20	20	4TX
5.47-5.725GHz	802.11ax HEW40	40	4TX
5.725-5.85GHz	802.11ax HEW40	40	4TX
5.47-5.725GHz	802.11ax HEW80	80	4TX
5.725-5.85GHz	802.11ax HEW80	80	4TX
5.47-5.725GHz	802.11ax HEW160	160	4TX

Beamforming

Band	Mode	BWch (MHz)	Nant
5.47-5.725GHz	802.11ax HEW20-BF	20	4TX
5.725-5.85GHz	802.11ax HEW20-BF	20	4TX
5.47-5.725GHz	802.11ax HEW40-BF	40	4TX
5.725-5.85GHz	802.11ax HEW40-BF	40	4TX
5.47-5.725GHz	802.11ax HEW80-BF	80	4TX
5.725-5.85GHz	802.11ax HEW80-BF	80	4TX
5.47-5.725GHz	802.11ax HEW160-BF	160	4TX
5.725-5.85GHz	802.11ax HEW160-BF	160	4TX

**Note:**

- ♦ 11a, HT20 and HT40 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM modulation.
- ♦ VHT20, VHT40, VHT80, VHT160 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM, 256QAM modulation.
- ♦ HEW20, HEW40, HEW80, HEW 160 use a combination of OFDMA-BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM modulation.
- ♦ BWch is the nominal channel bandwidth.

1.1.2 Antenna Information**Model: FAP-U433F**

Ant.	Radio	Brand	Model Name	Antenna Type	Connector
1-4	1	ARISTOTLE	RFA-05-C53-U-B32C255	Dipole Antenna	Reversed-SMA
5-8	2	ARISTOTLE	RFA-25-C53-U-B32C255	Dipole Antenna	Reversed-SMA
9-10	3	ARISTOTLE	RFA-25-C53-U-B32C255	Dipole Antenna	Reversed-SMA
11	3	ARISTOTLE	RFA-BT-G402-79-200	PIFA Antenna	IPEX
12	1 & 2	ventev	FANT-08ABGN-1213-D-R	Directional Dipole Antenna	Reversed-SMA

Ant.	Gain (dBi)					
	Radio 1	Radio 2		Radio 3		
	5G	2.4G	5G	2.4G	5G	BT
1-4	4.3	-	-	-	-	-
5-8	-	3.5	5.0	-	-	-
9-10	-	-	-	3.5	5.0	-
11	-	-	-	-	-	3.0
12	13	12	13	-	-	-

Model: FAP-U431F

Ant.	Radio	Brand	Model Name	Antenna Type	Connector
1-4	1	ARISTOTLE	RFA-9953	PIFA Antenna	IPEX
5-8	2	ARISTOTLE	RFA-9953	PIFA Antenna	IPEX
9-10	3	ARISTOTLE	RFA-9953	PIFA Antenna	IPEX
11	3	ARISTOTLE	RFA-BT-G402-79-200	PIFA Antenna	IPEX

Ant.	Gain (dBi)					
	Radio 1	Radio 2		Radio 3		
	5G	2.4G	5G	2.4G	5G	BT
1-4	6.0	-	-	-	-	-
5-8	-	4.0	6.0	-	-	-
9-10	-	-	-	4.0	6.0	-
11	-	-	-	-	-	3.0

Ant.	BF Gain (dBi)
	Radio 1 & 2
-	6.02

Directional gain = $G_{ANT\ MAX} + 10 \log(N_{ANT}/N_{SS})$ dBi, where N_{SS} = the number of independent spatial streams of data and $G_{ANT\ MAX}$ is the gain of the antenna having the highest gain (in dBi).

For 2.4GHz function:

For IEEE 802.11 b/g/n/VHT/ax mode

Radio 2: Ant. 5 to Ant. 8 could transmit/receive simultaneously. (4TX/4RX)

Radio 2: Ant. 12 could transmit/receive simultaneously. (4TX/4RX)

Radio 3: Ant. 9 and Ant. 10 could transmit/receive simultaneously. (2TX/2RX)

For 5GHz function:

For IEEE 802.11 a/n/ac/ax mode

Radio 1: Ant. 1 to Ant. 4 could transmit/receive simultaneously. (4TX/4RX)

Radio 1: Ant. 12 could transmit/receive simultaneously. (4TX/4RX)

Radio 2: Ant. 5 to Ant. 8 could transmit/receive simultaneously. (4TX/4RX)

Radio 2: Ant. 12 could transmit/receive simultaneously. (4TX/4RX)

Radio 3: Ant. 9 and Ant. 10 could transmit/receive simultaneously. (2RX)

For Bluetooth function:

For IEEE 802.15.1 Bluetooth mode

Radio 3: Ant. 11 could transmit/receive simultaneously. (1TX/1RX)

1.1.3 EUT Information

Operational Condition			
EUT Power Type	From AC Adapter		
EUT Function	☐ Outdoor AP	☒ Indoor AP	
	☐ Fixed P2P AP	☐ Client	
Beamforming Function	☒ With beamforming	☐ Without beamforming	
TPC Function	☒ With TPC Function	☐ Without TPC Function	
Weather Band	☒ With 5600~5650MHz	☐ Without 5600~5650MHz	
Resource Unit(802.11ax)	☒ Full RU	☐ Partial RU	
Type of EUT			
☒	Stand-alone		
☐	Combined (EUT where the radio part is fully integrated within another device)		
	Combined Equipment - Brand Name / Model No.: ...		
☐	Plug-in radio (EUT intended for a variety of host systems)		
	Host System - Brand Name / Model No.:		
☐	Other:		

1.1.4 Mode Test Duty Cycle

Non-Beamforming_Radio1

Mode	DC	DCF(dB)	T(s)	VBW(Hz) ≥ 1/T
802.11a_Nss1,(6Mbps)_4TX	0.947	0.24	2.064m	1k
802.11ax HEW20_Nss1,(MCS0)_4TX	0.981	0.08	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11ax HEW40_Nss1,(MCS0)_4TX	0.96	0.18	780.313u	3k
802.11ax HEW80_Nss1,(MCS0)_4TX	0.927	0.33	413.438u	3k
802.11ax HEW160_Nss1,(MCS0)_4TX	0.888	0.52	236.563u	10k

Non-Beamforming_Radio2

Mode	DC	DCF(dB)	T(s)	VBW(Hz) ≥ 1/T
802.11a_Nss1,(6Mbps)_4TX	0.957	0.19	2.064m	1k
802.11ax HEW20_Nss1,(MCS0)_4TX	0.978	0.1	1.488m	1k
802.11ax HEW40_Nss1,(MCS0)_4TX	0.964	0.16	772.5u	3k
802.11ax HEW80_Nss1,(MCS0)_4TX	0.928	0.32	401.25u	3k
802.11ax HEW160_Nss1,(MCS0)_4TX	0.886	0.53	232.5u	10k

Beamforming_Radio1

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq 1/T$
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	0.861	0.65	1.497m	1k
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	0.873	0.59	2.342m	1k
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	0.9	0.46	3.833m	300
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	0.9	0.46	3.833m	300

Beamforming_Radio2

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq 1/T$
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	0.862	0.64	1.497m	1k
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	0.883	0.54	2.342m	1k
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	0.901	0.45	3.832m	300
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	0.911	0.4	3.832m	300

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

1.1.5 Table for Multiple Listing

Brand Name	Model Name	Description
FORTINET	FortiAP U431Fxxxxxx	Internal Antenna
	FAP-U431Fxxxxxx	
	FORTIAP-U431Fxxxxxx	
	FortiAP U433Fxxxxxx	External Antenna
	FAP-U433Fxxxxxx	
	FORTIAP-U433Fxxxxxx	

Note: All the models are electrically identical, difference model names for marketing purpose.

1.1.6 Table for Permissive Change

This product is an extension of original one reported under Sporton project number: FR931106-01AN

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

Modifications	Performance Checking
The Antenna 12 was added for FAP-U433F	All test items were evaluated for Radio 1 & Radio 2.

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	CO04-HY	Daniel Lin	21.2~22.0°C / 56~59%	28/Dec/2021
RF Conducted	TH06-HY	Johnny Yu	21.2~25.8°C / 50~60%	20/Dec/2021~25/Dec/2021
Radiated	03CH03-HY	Edward Wang	20.1~26.9°C / 50~60%	11/Dec/2021~23/Dec/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.				

Laboratory number TAF 3785 is a spin-off from the original Laboratory number TAF 1190.

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_Radio1

Test Software Version	MTool 3.1.0.1
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Mode	Power Setting
802.11a_Nss1,(6Mbps)_4TX	-
5180MHz	47
5200MHz	46
5240MHz	46
5260MHz	23
5300MHz	23
5320MHz	23
5500MHz	20
5580MHz	20
5700MHz	21
5720MHz Straddle 5.47-5.725GHz	21
5720MHz Straddle 5.725-5.85GHz	21
5745MHz	66
5785MHz	66
5825MHz	66
802.11ax HEW20_Nss1,(MCS0)_4TX	-
5180MHz	49
5200MHz	49
5240MHz	48
5260MHz	25
5300MHz	25
5320MHz	25
5500MHz	23
5580MHz	23
5700MHz	23
5720MHz Straddle 5.47-5.725GHz	23
5720MHz Straddle 5.725-5.85GHz	23
5745MHz	65
5785MHz	66



Mode	Power Setting
5825MHz	66
802.11ax HEW40_Nss1,(MCS0)_4TX	-
5190MHz	47
5230MHz	59
5270MHz	35
5310MHz	35
5510MHz	34
5550MHz	33
5670MHz	33
5710MHz Straddle 5.47-5.725GHz	34
5710MHz Straddle 5.725-5.85GHz	34
5755MHz	67
5795MHz	68
802.11ax HEW80_Nss1,(MCS0)_4TX	-
5210MHz	46
5290MHz	42
5530MHz	40
5610MHz	39
5690MHz Straddle 5.47-5.725GHz	43
5690MHz Straddle 5.725-5.85GHz	43
5775MHz	66
802.11ax HEW160_Nss1,(MCS0)_4TX	-
5250MHz Straddle 5.15-5.25GHz	35
5250MHz Straddle 5.25-5.35GHz	35
5570MHz	41

**Non-Beamforming_Radio2**

Test Software Version	MTool 3.1.0.1
Mode	Power Setting
802.11a_Nss1,(6Mbps)_4TX	-
5500MHz	21
5580MHz	20
5700MHz	24
5720MHz Straddle 5.47-5.725GHz	25
5720MHz Straddle 5.725-5.85GHz	25
5745MHz	65
5785MHz	68
5825MHz	74
802.11ax HEW20_Nss1,(MCS0)_4TX	-
5500MHz	23
5580MHz	22
5700MHz	25
5720MHz Straddle 5.47-5.725GHz	25
5720MHz Straddle 5.725-5.85GHz	25
5745MHz	67
5785MHz	67
5825MHz	67
802.11ax HEW40_Nss1,(MCS0)_4TX	-
5510MHz	35
5550MHz	33
5670MHz	36
5710MHz Straddle 5.47-5.725GHz	36
5710MHz Straddle 5.725-5.85GHz	36
5755MHz	66
5795MHz	67
802.11ax HEW80_Nss1,(MCS0)_4TX	-
5530MHz	39
5610MHz	42
5690MHz Straddle 5.47-5.725GHz	46
5690MHz Straddle 5.725-5.85GHz	46
5775MHz	68



Mode	Power Setting
802.11ax HEW160_Nss1,(MCS0)_4TX	-
5570MHz	42

**Beamforming_Radio1**

Test Software Version	Dos v6.1
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Mode	Power Setting
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	-
5180MHz	33
5200MHz	33
5240MHz	32
5260MHz	15
5300MHz	17
5320MHz	16
5500MHz	15
5580MHz	15
5700MHz	16
5720MHz Straddle 5.47-5.725GHz	16
5720MHz Straddle 5.725-5.85GHz	16
5745MHz	36
5785MHz	38
5825MHz	39
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	-
5190MHz	37
5230MHz	37
5270MHz	14
5310MHz	16
5510MHz	16
5550MHz	16
5670MHz	17
5710MHz Straddle 5.47-5.725GHz	16
5710MHz Straddle 5.725-5.85GHz	16
5755MHz	41
5795MHz	42
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	-
5210MHz	38
5290MHz	17
5530MHz	16
5610MHz	17



Mode	Power Setting
5690MHz Straddle 5.47-5.725GHz	15
5690MHz Straddle 5.725-5.85GHz	15
5775MHz	41
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	-
5250MHz Straddle 5.15-5.25GHz	21
5250MHz Straddle 5.25-5.35GHz	21
5570MHz	16

**Beamforming_Radio2**

Test Software Version	Dos v6.1
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Mode	Power Setting
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	-
5500MHz	13
5580MHz	12
5700MHz	15
5720MHz Straddle 5.47-5.725GHz	13
5720MHz Straddle 5.725-5.85GHz	13
5745MHz	32
5785MHz	36
5825MHz	34
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	-
5510MHz	13
5550MHz	12
5670MHz	14
5710MHz Straddle 5.47-5.725GHz	14
5710MHz Straddle 5.725-5.85GHz	14
5755MHz	34
5795MHz	35
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	-
5530MHz	13
5610MHz	15
5690MHz Straddle 5.47-5.725GHz	14
5690MHz Straddle 5.725-5.85GHz	14
5775MHz	37
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	-
5570MHz	15

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
Operating Mode	CTX
1	WLAN 5GHz(Radio1)+WLAN 5GHz(Radio2)+WLAN 2.4GHz(Radio2)+ WLAN 2.4GHz(Radio3)+Bluetooth
Refer to Sporton Test Report No.: FA931106-09 for Co-location RF Exposure Evaluation.	



2.3 Accessories

Accessories				
AC Adapter	Brand Name	APD	Model Name	WA-30J12R
	Power Rating	I/P: 100 - 240Vac, 0.9 A, O/P: 12 Vdc, 2.5 A		
	Power Cord	1.50 meter, non-shielded cable, w/o ferrite core		

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

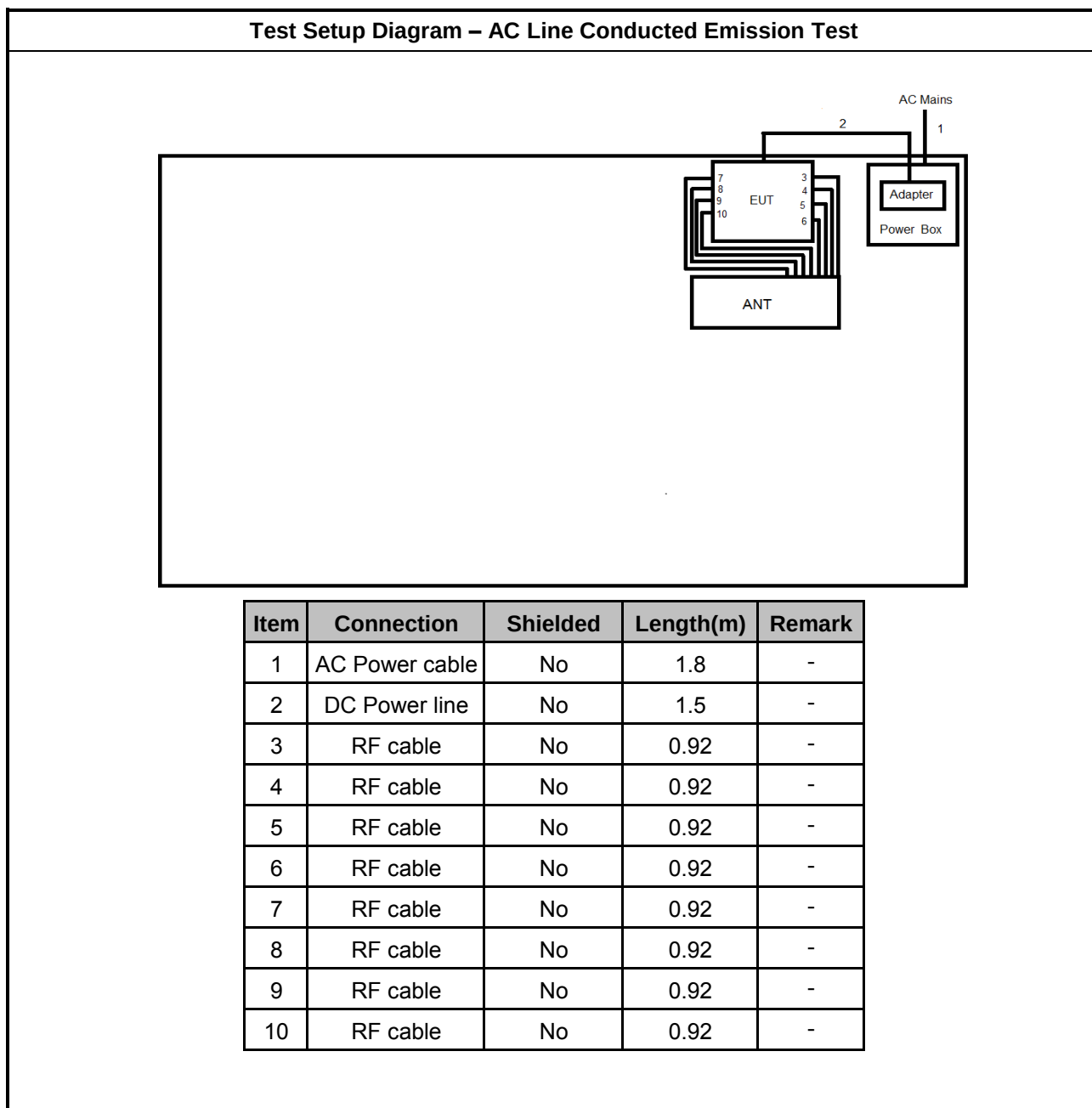
2.4 Support Equipment

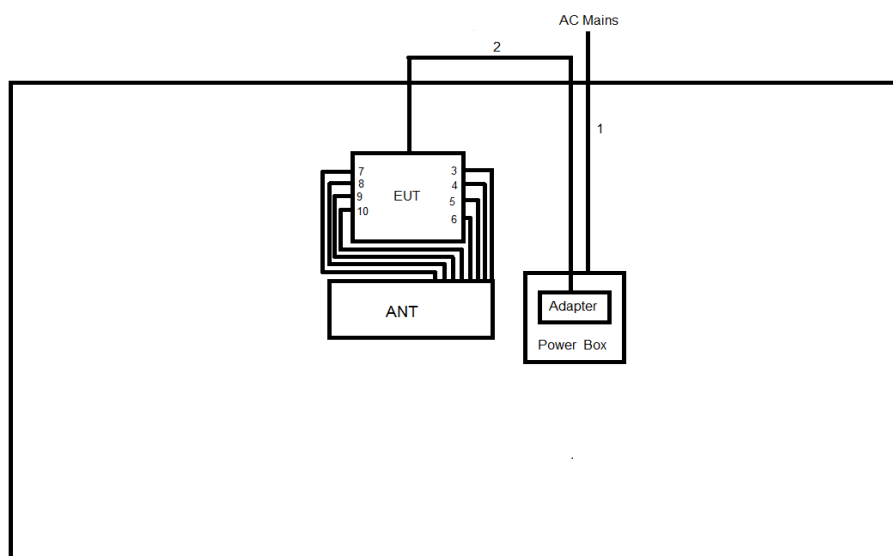
Support Equipment – AC Conduction					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	Client AP	FORTINET	FAP-U433	-	Provided by Customer
2	Notebook	HP	5220M	-	-

Support Equipment – Conducted					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	Notebook	DELL	E5410	-	-
2	Adapter for NB	DELL	HA65NM130	-	-

Support Equipment – Radiated					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	Client AP	FORTINET	FAP-U433	-	Provided by Customer
2	Notebook	HP	5220M	-	-

2.5 Test Setup Diagram



Test Setup Diagram - Radiated Test


Item	Connection	Shielded	Length(m)	Remark
1	AC Power cable	No	1.8	-
2	DC Power line	No	1.5	-
3	RF cable	No	0.92	-
4	RF cable	No	0.92	-
5	RF cable	No	0.92	-
6	RF cable	No	0.92	-
7	RF cable	No	0.92	-
8	RF cable	No	0.92	-
9	RF cable	No	0.92	-
10	RF cable	No	0.92	-

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

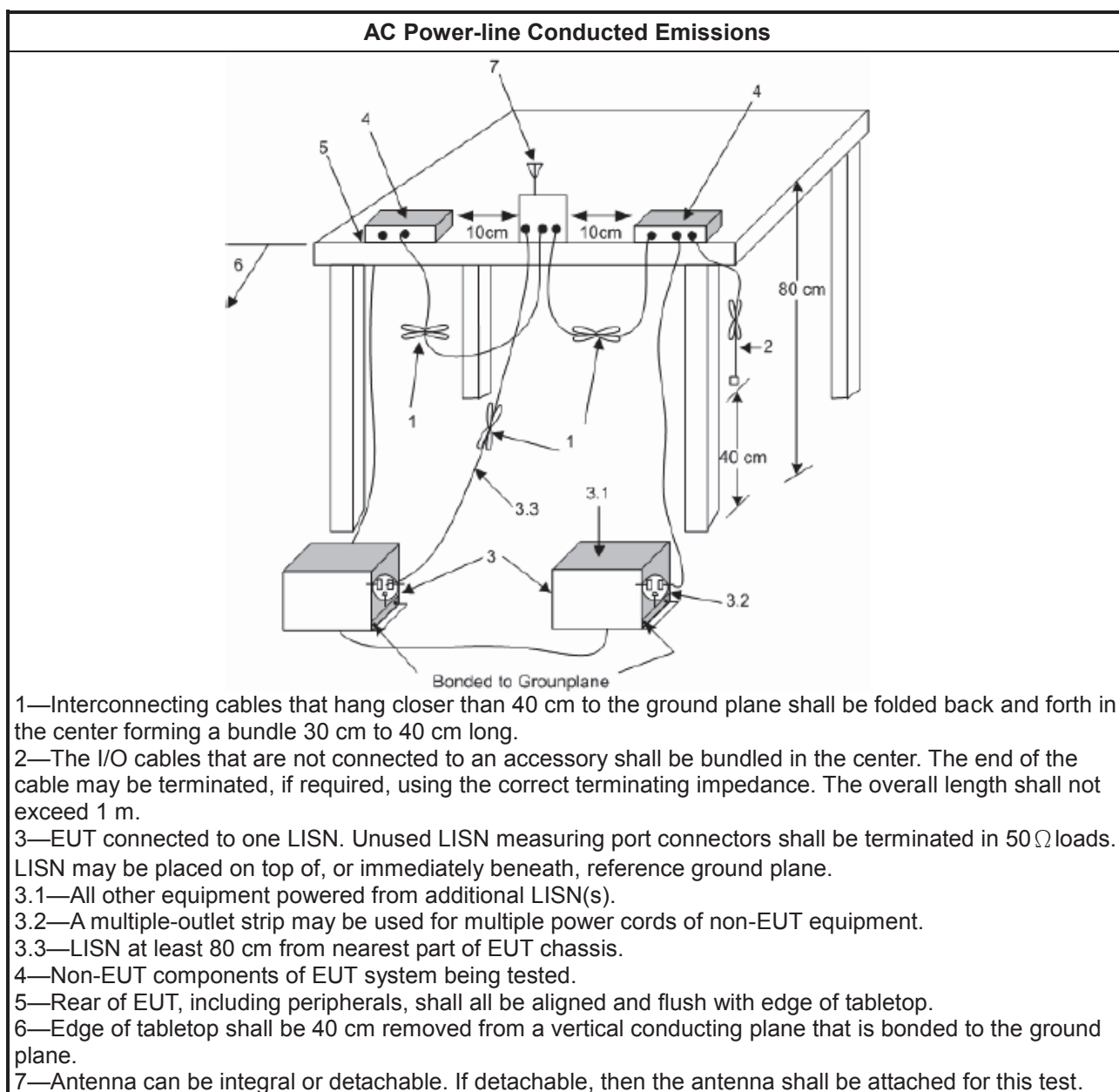
Test Method
☒ Refer as ANSI C63.10-2013, clause 6.2 for AC power-line conducted emissions.

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.

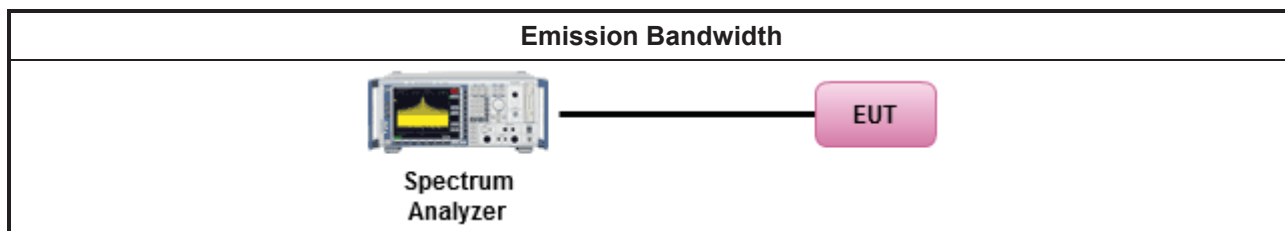
3.2.2 Measuring Instruments

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 $11 \text{ dBm} + 10 \log B$, where B is the 26 dB emission bandwidth in MHz. If $G_{TX} > 6$ dBi, then $P_{Out} = 24 - (G_{TX} - 6)$.
☒	For the 5.47-5.725 GHz band, the maximum conducted output power (P_{Out}) shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, where B is the 26 dB emission bandwidth in MHz. If $G_{TX} > 6$ dBi, then $P_{Out} = 24 - (G_{TX} - 6)$.
☒ For the 5.725-5.85 GHz band:	
☐	- Point-to-multipoint systems (P2M): the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W. If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)$. - Point-to-point systems (P2P): the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W.
P_{Out} = maximum conducted output power in dBm, G_{TX} = the maximum transmitting antenna directional gain in dBi.	

3.3.2 Measuring Instruments

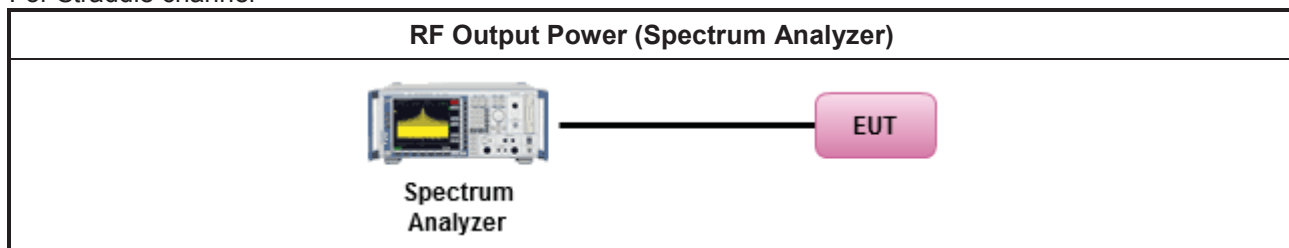
Refer a test equipment and calibration data table in this test report.

3.3.3 Test Procedures

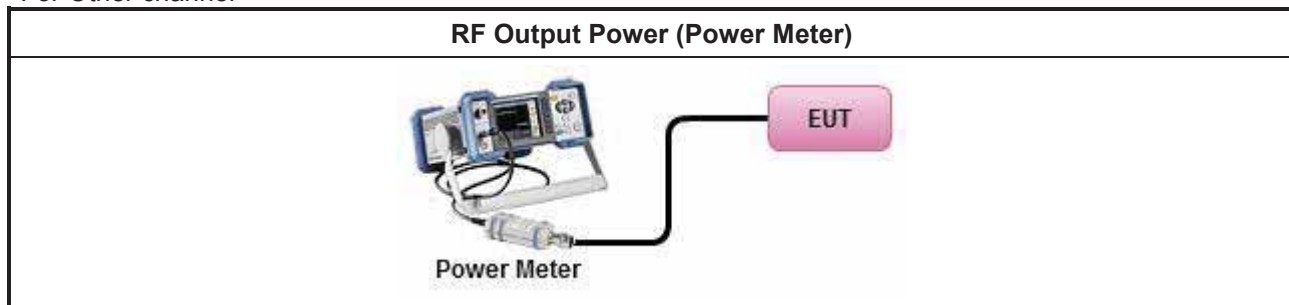
Test Method	
Maximum Conducted Output Power	
	Duty cycle $\geq 98\%$
☒	Refer as KDB 789033, clause E Method SA-2 (spectral trace averaging).
	Duty cycle $< 98\%$
☒	Refer as KDB 789033, clause E Method SA-2 Alt. (RMS detection with slow sweep speed)
	Wideband RF power meter and average over on/off periods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

3.3.4 Test Setup

For Straddle channel



For Other channel



3.3.5 Test Result of Maximum Conducted Output Power

Refer as Appendix C

3.4 Peak Power Spectral Density

3.4.1 Peak Power Spectral Density Limit

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

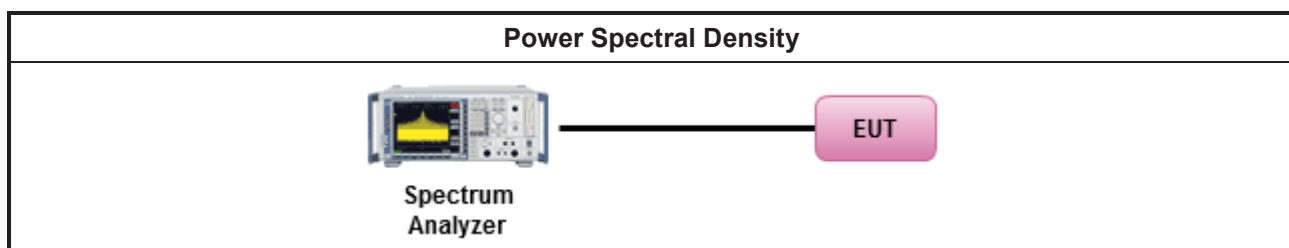
3.4.2 Measuring Instruments

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

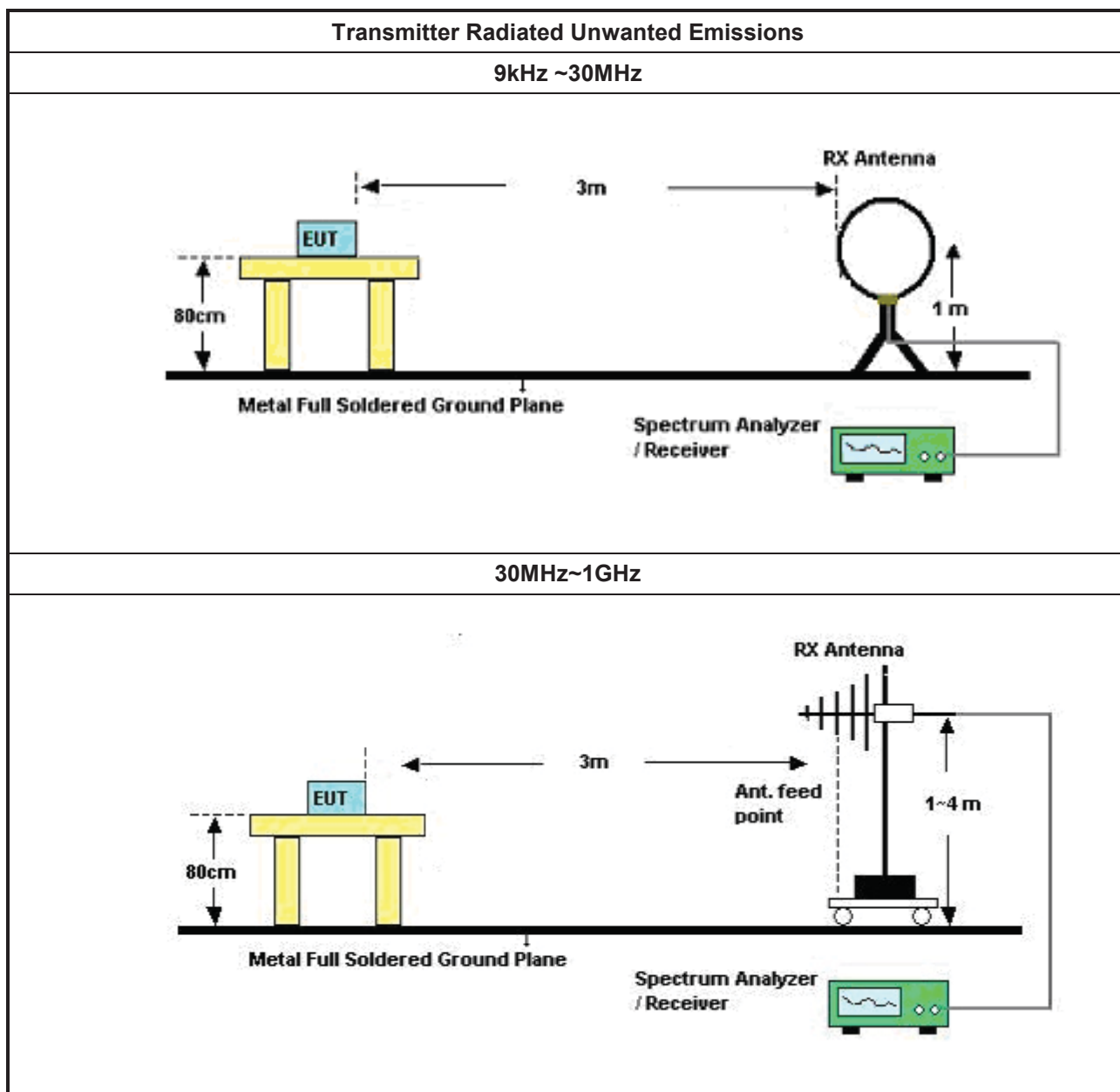
Test Method	
Measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. Measurements shall not be performed at a distance greater than 30 m for frequencies above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

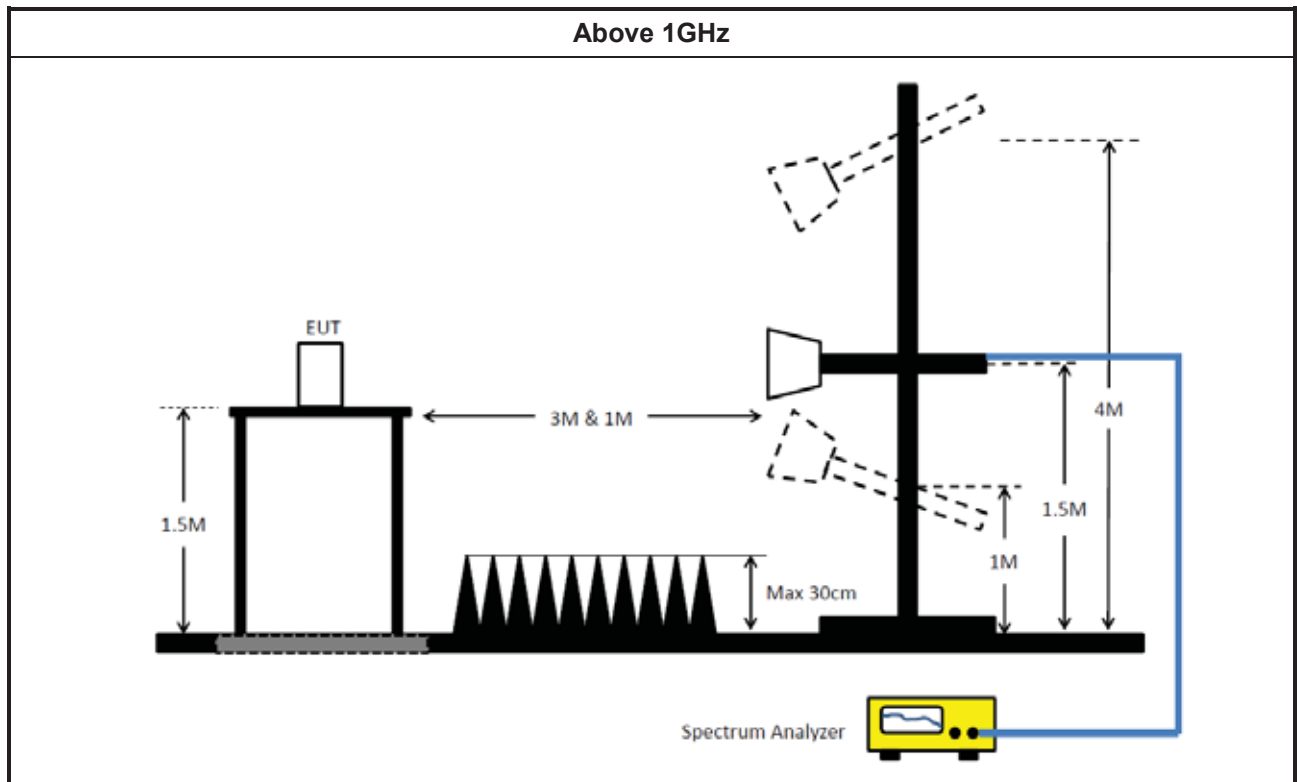
3.5.4 Measurement Results Calculation

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

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
EMI Test Receiver	R&S	ESR3	102051	9kHz ~ 3.6GHz	21/May/2021	20/May/2022
LISN	R&S	ENV216	100003	9kHz ~ 30MHz	23/Dec/2021	22/Dec/2022
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	26/Oct/2021	25/Oct/2022
SENSE EMI	Sporton	v5.10.7.13	N/A	N/A	N/A	N/A

Instrument for Conducted Test

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
Signal Analyzer	R&S	FSV 40	101029	10Hz~40GHz	20/Oct/2021	19/Oct/2022
SMB100A Signal Generator	R&S	SMB100A03	181147	100kHz~40GHz	21/Oct/2021	20/Oct/2022
Pulse Sensor	Anritsu	MA2411B	1027452	300MHz~40GHz	25/Mar/2021	24/Mar/2022
Power Meter	Anritsu	ML2495A	1124009	300MHz~40GHz	25/Mar/2021	24/Mar/2022
SENSE-15.407_DTS	Sporton	v5.10.7.18	N/A	N/A	N/A	N/A

**Instrument for Radiated Test**

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH03-HY	30MHz~1GHz 3m	03/Aug/2021	02/Aug/2022
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH03-HY	1GHz~18GHz 3m	03/Aug/2021	02/Aug/2022
Signal Analyzer	R&S	FSV40	101500	10Hz~40GHz	12/Oct/2021	11/Oct/2022
Amplifier	HP	8447D	2944A08033	10kHz~1.3GHz	13/Apr/2021	12/Apr/2022
Microwave Preamplifier	Agilent	8449B	3008A02326	1GHz~26.5GHz	15/Jul/2021	14/Jul/2022
Bilog Antenna & 6dB Attenuator	SCHAFFNER / EMC	CBL6112B / N-6-05	22237 / AT-N-0603	30MHz~1GHz	17/Oct/2021	16/Oct/2022
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	2267	1GHz~18GHz	14/Sep/2021	13/Sep/2022
RF Cable-R03m	Jye Bao	RG142	CB021	9kHz~30MHz	16/Jun/2021	15/Jun/2022
RF Cable-R03m	Jye Bao	RG142	MY37335/4+CB021-1+CB021-2	30MHz~1GHz	17/Mar/2021	16/Mar/2022
RF CABLE 5+6m	HUBER+SUHNER	SUOFLEX 104	SN MY38596/4+SN 804300/4	1GHz~40GHz	28/Jul/2021	27/Jul/2022
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA 9170221	15GHz~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
SENSE 15407_DTS	Sporton	v5.10.7.13	N/A	N/A	N/A	N/A



Conducted Emissions at Powerline_Non-Beamforming_Radio 1 Appendix A.1

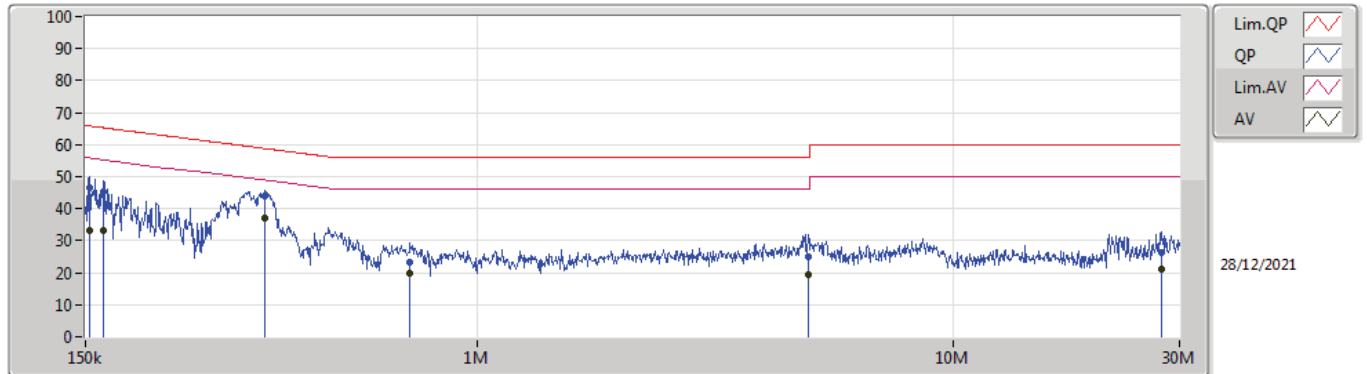
Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	AV	356.703k	36.89	48.81	-11.92	Line

Mode Configure

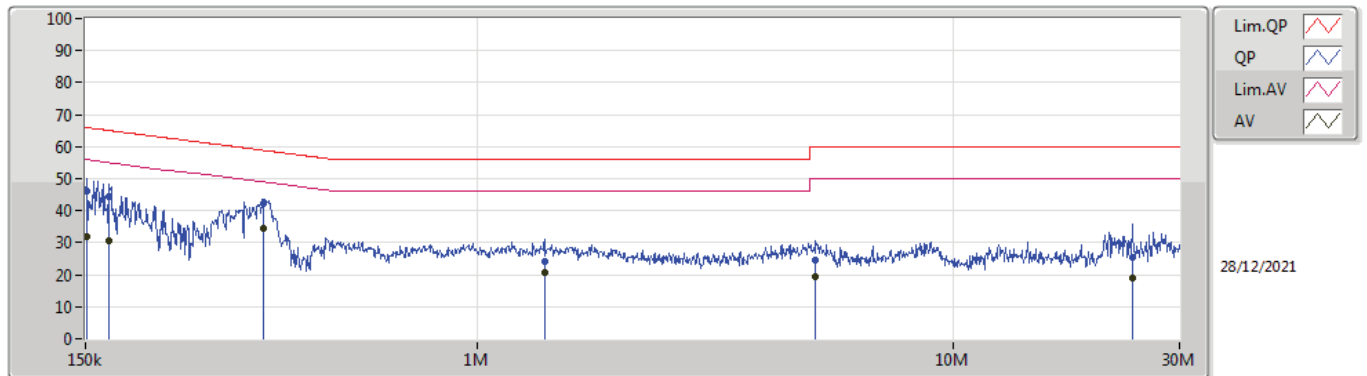
Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition	Comments
Mode 1	Pass	QP	153.024k	46.69	65.83	-19.14	Line	-
Mode 1	Pass	AV	153.024k	33.22	55.83	-22.61	Line	-
Mode 1	Pass	QP	163.769k	45.09	65.27	-20.18	Line	-
Mode 1	Pass	AV	163.769k	33.00	55.27	-22.27	Line	-
Mode 1	Pass	QP	356.703k	44.07	58.81	-14.74	Line	-
Mode 1	Pass	AV	356.703k	36.89	48.81	-11.92	Line	-
Mode 1	Pass	QP	723.06k	23.42	56.00	-32.58	Line	-
Mode 1	Pass	AV	723.06k	19.75	46.00	-26.25	Line	-
Mode 1	Pass	QP	4.972M	24.85	56.00	-31.15	Line	-
Mode 1	Pass	AV	4.972M	19.44	46.00	-26.56	Line	-
Mode 1	Pass	QP	27.563M	26.46	60.00	-33.54	Line	-
Mode 1	Pass	AV	27.563M	21.19	50.00	-28.81	Line	-
Mode 1	Pass	QP	151.202k	45.96	65.92	-19.96	Neutral	-
Mode 1	Pass	AV	151.202k	32.08	55.92	-23.84	Neutral	-
Mode 1	Pass	QP	168.41k	44.54	65.04	-20.50	Neutral	-
Mode 1	Pass	AV	168.41k	30.62	55.04	-24.42	Neutral	-
Mode 1	Pass	QP	355.282k	42.05	58.83	-16.78	Neutral	-
Mode 1	Pass	AV	355.282k	34.49	48.83	-14.34	Neutral	-
Mode 1	Pass	QP	1.386M	24.19	56.00	-31.81	Neutral	-
Mode 1	Pass	AV	1.386M	20.87	46.00	-25.13	Neutral	-
Mode 1	Pass	QP	5.154M	24.50	60.00	-35.50	Neutral	-
Mode 1	Pass	AV	5.154M	19.32	50.00	-30.68	Neutral	-
Mode 1	Pass	QP	23.873M	25.31	60.00	-34.69	Neutral	-
Mode 1	Pass	AV	23.873M	19.11	50.00	-30.89	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	153.024k	46.69	65.83	-19.14	19.56	Line	-	27.13	9.61	0.04	9.91			
AV	153.024k	33.22	55.83	-22.61	19.56	Line	-	13.66	9.61	0.04	9.91			
QP	163.769k	45.09	65.27	-20.18	19.56	Line	-	25.53	9.61	0.04	9.91			
AV	163.769k	33.00	55.27	-22.27	19.56	Line	-	13.44	9.61	0.04	9.91			
QP	356.703k	44.07	58.81	-14.74	19.57	Line	-	24.50	9.60	0.06	9.91			
AV	356.703k	36.89	48.81	-11.92	19.57	Line	-	17.32	9.60	0.06	9.91			
QP	723.06k	23.42	56.00	-32.58	19.60	Line	-	3.82	9.61	0.07	9.92			
AV	723.06k	19.75	46.00	-26.25	19.60	Line	-	0.15	9.61	0.07	9.92			
QP	4.972M	24.85	56.00	-31.15	19.73	Line	-	5.12	9.66	0.15	9.92			
AV	4.972M	19.44	46.00	-26.56	19.73	Line	-	-0.29	9.66	0.15	9.92			
QP	27.563M	26.46	60.00	-33.54	20.01	Line	-	6.45	9.74	0.33	9.94			
AV	27.563M	21.19	50.00	-28.81	20.01	Line	-	1.18	9.74	0.33	9.94			

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	151.202k	45.96	65.92	-19.96	19.55	Neutral	-	26.41	9.60	0.04	9.91			
AV	151.202k	32.08	55.92	-23.84	19.55	Neutral	-	12.53	9.60	0.04	9.91			
QP	168.41k	44.54	65.04	-20.50	19.55	Neutral	-	24.99	9.60	0.04	9.91			
AV	168.41k	30.62	55.04	-24.42	19.55	Neutral	-	11.07	9.60	0.04	9.91			
QP	355.282k	42.05	58.83	-16.78	19.57	Neutral	-	22.48	9.60	0.06	9.91			
AV	355.282k	34.49	48.83	-14.34	19.57	Neutral	-	14.92	9.60	0.06	9.91			
QP	1.386M	24.19	56.00	-31.81	19.63	Neutral	-	4.56	9.62	0.09	9.92			
AV	1.386M	20.87	46.00	-25.13	19.63	Neutral	-	1.24	9.62	0.09	9.92			
QP	5.154M	24.50	60.00	-35.50	19.76	Neutral	-	4.74	9.68	0.16	9.92			
AV	5.154M	19.32	50.00	-30.68	19.76	Neutral	-	-0.44	9.68	0.16	9.92			
QP	23.873M	25.31	60.00	-34.69	20.18	Neutral	-	5.13	9.93	0.32	9.93			
AV	23.873M	19.11	50.00	-30.89	20.18	Neutral	-	-1.07	9.93	0.32	9.93			



Conducted Emissions at Powerline_Non-Beamforming_Radio 2 Appendix A.2

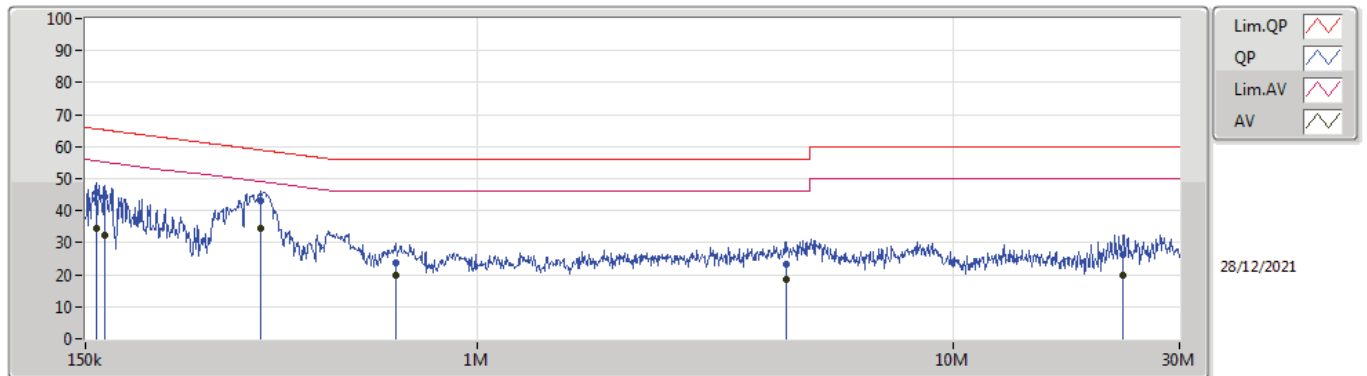
Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	AV	356.703k	35.21	48.81	-13.60	Neutral

Mode Configure

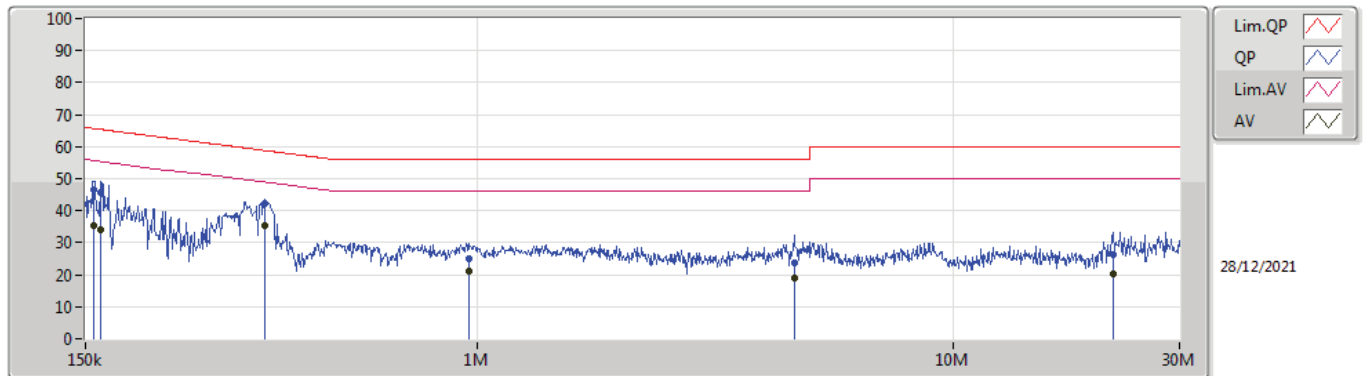
Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition	Comments
Mode 1	Pass	QP	157.99k	45.71	65.56	-19.85	Line	-
Mode 1	Pass	AV	157.99k	34.45	55.56	-21.11	Line	-
Mode 1	Pass	QP	165.082k	44.45	65.20	-20.75	Line	-
Mode 1	Pass	AV	165.082k	32.14	55.20	-23.06	Line	-
Mode 1	Pass	QP	349.654k	43.03	58.96	-15.93	Line	-
Mode 1	Pass	AV	349.654k	34.28	48.96	-14.68	Line	-
Mode 1	Pass	QP	672.926k	23.70	56.00	-32.30	Line	-
Mode 1	Pass	AV	672.926k	20.03	46.00	-25.97	Line	-
Mode 1	Pass	QP	4.464M	23.14	56.00	-32.86	Line	-
Mode 1	Pass	AV	4.464M	18.55	46.00	-27.45	Line	-
Mode 1	Pass	QP	22.847M	26.18	60.00	-33.82	Line	-
Mode 1	Pass	AV	22.847M	19.90	50.00	-30.10	Line	-
Mode 1	Pass	QP	156.109k	46.52	65.67	-19.15	Neutral	-
Mode 1	Pass	AV	156.109k	35.30	55.67	-20.37	Neutral	-
Mode 1	Pass	QP	161.82k	45.78	65.37	-19.59	Neutral	-
Mode 1	Pass	AV	161.82k	34.18	55.37	-21.19	Neutral	-
Mode 1	Pass	QP	356.703k	42.16	58.81	-16.65	Neutral	-
Mode 1	Pass	AV	356.703k	35.21	48.81	-13.60	Neutral	-
Mode 1	Pass	QP	959.992k	25.16	56.00	-30.84	Neutral	-
Mode 1	Pass	AV	959.992k	21.30	46.00	-24.70	Neutral	-
Mode 1	Pass	QP	4.646M	23.58	56.00	-32.42	Neutral	-
Mode 1	Pass	AV	4.646M	19.00	46.00	-27.00	Neutral	-
Mode 1	Pass	QP	21.779M	26.37	60.00	-33.63	Neutral	-
Mode 1	Pass	AV	21.779M	20.44	50.00	-29.56	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	157.99k	45.71	65.56	-19.85	19.56	Line	-	26.15	9.61	0.04	9.91			
AV	157.99k	34.45	55.56	-21.11	19.56	Line	-	14.89	9.61	0.04	9.91			
QP	165.082k	44.45	65.20	-20.75	19.56	Line	-	24.89	9.61	0.04	9.91			
AV	165.082k	32.14	55.20	-23.06	19.56	Line	-	12.58	9.61	0.04	9.91			
QP	349.654k	43.03	58.96	-15.93	19.57	Line	-	23.46	9.60	0.06	9.91			
AV	349.654k	34.28	48.96	-14.68	19.57	Line	-	14.71	9.60	0.06	9.91			
QP	672.926k	23.70	56.00	-32.30	19.60	Line	-	4.10	9.61	0.07	9.92			
AV	672.926k	20.03	46.00	-25.97	19.60	Line	-	0.43	9.61	0.07	9.92			
QP	4.464M	23.14	56.00	-32.86	19.72	Line	-	3.42	9.65	0.15	9.92			
AV	4.464M	18.55	46.00	-27.45	19.72	Line	-	-1.17	9.65	0.15	9.92			
QP	22.847M	26.18	60.00	-33.82	19.97	Line	-	6.21	9.73	0.31	9.93			
AV	22.847M	19.90	50.00	-30.10	19.97	Line	-	-0.07	9.73	0.31	9.93			

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	156.109k	46.52	65.67	-19.15	19.55	Neutral	-	26.97	9.60	0.04	9.91			
AV	156.109k	35.30	55.67	-20.37	19.55	Neutral	-	15.75	9.60	0.04	9.91			
QP	161.82k	45.78	65.37	-19.59	19.55	Neutral	-	26.23	9.60	0.04	9.91			
AV	161.82k	34.18	55.37	-21.19	19.55	Neutral	-	14.63	9.60	0.04	9.91			
QP	356.703k	42.16	58.81	-16.65	19.57	Neutral	-	22.59	9.60	0.06	9.91			
AV	356.703k	35.21	48.81	-13.60	19.57	Neutral	-	15.64	9.60	0.06	9.91			
QP	959.992k	25.16	56.00	-30.84	19.62	Neutral	-	5.54	9.62	0.08	9.92			
AV	959.992k	21.30	46.00	-24.70	19.62	Neutral	-	1.68	9.62	0.08	9.92			
QP	4.646M	23.58	56.00	-32.42	19.74	Neutral	-	3.84	9.67	0.15	9.92			
AV	4.646M	19.00	46.00	-27.00	19.74	Neutral	-	-0.74	9.67	0.15	9.92			
QP	21.779M	26.37	60.00	-33.63	20.14	Neutral	-	6.23	9.90	0.31	9.93			
AV	21.779M	20.44	50.00	-29.56	20.14	Neutral	-	0.30	9.90	0.31	9.93			

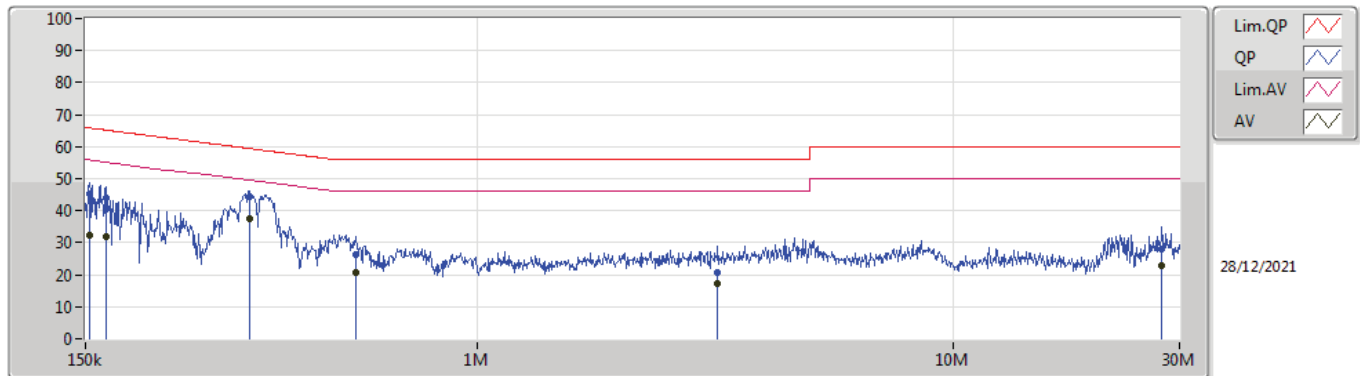
**Summary**

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	AV	331.971k	37.63	49.40	-11.77	Line

Mode Configure

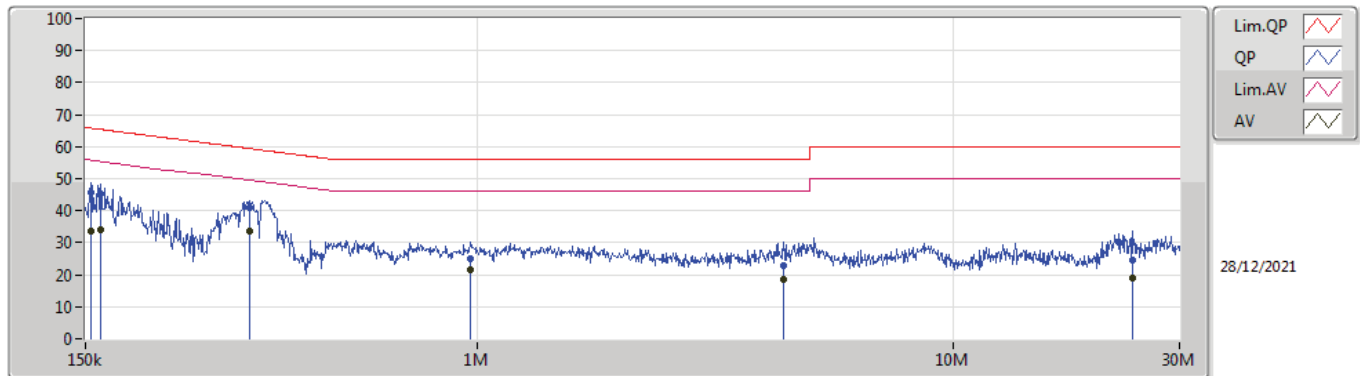
Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition	Comments
Mode 1	Pass	QP	153.024k	45.29	65.83	-20.54	Line	-
Mode 1	Pass	AV	153.024k	32.18	55.83	-23.65	Line	-
Mode 1	Pass	QP	165.743k	43.99	65.18	-21.19	Line	-
Mode 1	Pass	AV	165.743k	31.91	55.18	-23.27	Line	-
Mode 1	Pass	QP	331.971k	44.58	59.40	-14.82	Line	-
Mode 1	Pass	AV	331.971k	37.63	49.40	-11.77	Line	-
Mode 1	Pass	QP	555.583k	26.30	56.00	-29.70	Line	-
Mode 1	Pass	AV	555.583k	20.83	46.00	-25.17	Line	-
Mode 1	Pass	QP	3.205M	20.62	56.00	-35.38	Line	-
Mode 1	Pass	AV	3.205M	17.34	46.00	-28.66	Line	-
Mode 1	Pass	QP	27.563M	27.96	60.00	-32.04	Line	-
Mode 1	Pass	AV	27.563M	22.82	50.00	-27.18	Line	-
Mode 1	Pass	QP	153.636k	45.61	65.81	-20.20	Neutral	-
Mode 1	Pass	AV	153.636k	33.50	55.81	-22.31	Neutral	-
Mode 1	Pass	QP	161.82k	45.12	65.37	-20.25	Neutral	-
Mode 1	Pass	AV	161.82k	34.19	55.37	-21.18	Neutral	-
Mode 1	Pass	QP	331.971k	40.98	59.40	-18.42	Neutral	-
Mode 1	Pass	AV	331.971k	33.69	49.40	-15.71	Neutral	-
Mode 1	Pass	QP	967.688k	24.93	56.00	-31.07	Neutral	-
Mode 1	Pass	AV	967.688k	21.44	46.00	-24.56	Neutral	-
Mode 1	Pass	QP	4.411M	22.77	56.00	-33.23	Neutral	-
Mode 1	Pass	AV	4.411M	18.54	46.00	-27.46	Neutral	-
Mode 1	Pass	QP	23.968M	24.69	60.00	-35.31	Neutral	-
Mode 1	Pass	AV	23.968M	19.07	50.00	-30.93	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	153.024k	45.29	65.83	-20.54	19.56	Line	-	25.73	9.61	0.04	9.91			
AV	153.024k	32.18	55.83	-23.65	19.56	Line	-	12.62	9.61	0.04	9.91			
QP	165.743k	43.99	65.18	-21.19	19.56	Line	-	24.43	9.61	0.04	9.91			
AV	165.743k	31.91	55.18	-23.27	19.56	Line	-	12.35	9.61	0.04	9.91			
QP	331.971k	44.58	59.40	-14.82	19.56	Line	-	25.02	9.60	0.05	9.91			
AV	331.971k	37.63	49.40	-11.77	19.56	Line	-	18.07	9.60	0.05	9.91			
QP	555.583k	26.30	56.00	-29.70	19.58	Line	-	6.72	9.60	0.07	9.91			
AV	555.583k	20.83	46.00	-25.17	19.58	Line	-	1.25	9.60	0.07	9.91			
QP	3.205M	20.62	56.00	-35.38	19.69	Line	-	0.93	9.64	0.13	9.92			
AV	3.205M	17.34	46.00	-28.66	19.69	Line	-	-2.35	9.64	0.13	9.92			
QP	27.563M	27.96	60.00	-32.04	20.01	Line	-	7.95	9.74	0.33	9.94			
AV	27.563M	22.82	50.00	-27.18	20.01	Line	-	2.81	9.74	0.33	9.94			

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	153.636k	45.61	65.81	-20.20	19.55	Neutral	-	26.06	9.60	0.04	9.91			
AV	153.636k	33.50	55.81	-22.31	19.55	Neutral	-	13.95	9.60	0.04	9.91			
QP	161.82k	45.12	65.37	-20.25	19.55	Neutral	-	25.57	9.60	0.04	9.91			
AV	161.82k	34.19	55.37	-21.18	19.55	Neutral	-	14.64	9.60	0.04	9.91			
QP	331.971k	40.98	59.40	-18.42	19.56	Neutral	-	21.42	9.60	0.05	9.91			
AV	331.971k	33.69	49.40	-15.71	19.56	Neutral	-	14.13	9.60	0.05	9.91			
QP	967.688k	24.93	56.00	-31.07	19.62	Neutral	-	5.31	9.62	0.08	9.92			
AV	967.688k	21.44	46.00	-24.56	19.62	Neutral	-	1.82	9.62	0.08	9.92			
QP	4.411M	22.77	56.00	-33.23	19.73	Neutral	-	3.04	9.66	0.15	9.92			
AV	4.411M	18.54	46.00	-27.46	19.73	Neutral	-	-1.19	9.66	0.15	9.92			
QP	23.968M	24.69	60.00	-35.31	20.18	Neutral	-	4.51	9.93	0.32	9.93			
AV	23.968M	19.07	50.00	-30.93	20.18	Neutral	-	-1.11	9.93	0.32	9.93			

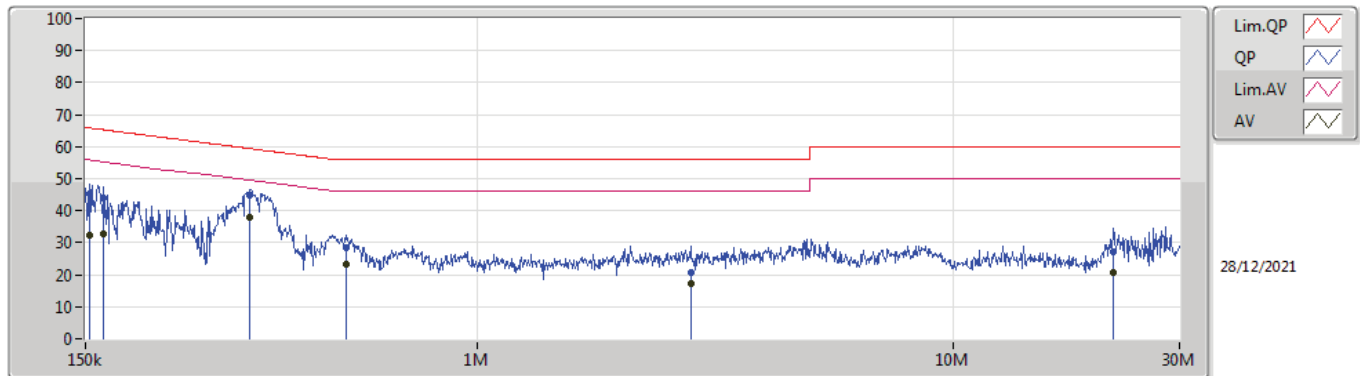
**Summary**

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	AV	333.299k	37.86	49.37	-11.51	Line

Mode Configure

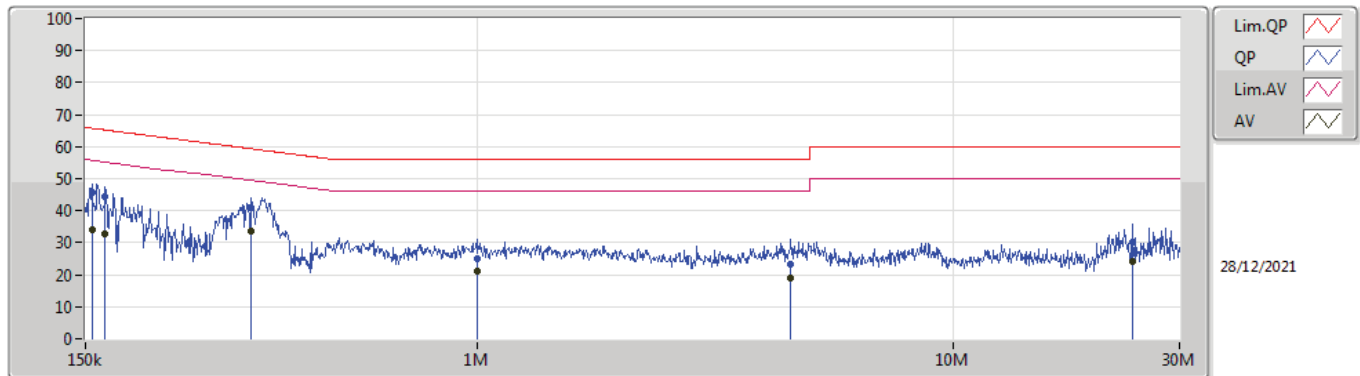
Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition	Comments
Mode 1	Pass	QP	153.024k	45.09	65.83	-20.74	Line	-
Mode 1	Pass	AV	153.024k	32.19	55.83	-23.64	Line	-
Mode 1	Pass	QP	163.769k	44.14	65.27	-21.13	Line	-
Mode 1	Pass	AV	163.769k	32.81	55.27	-22.46	Line	-
Mode 1	Pass	QP	333.299k	44.69	59.37	-14.68	Line	-
Mode 1	Pass	AV	333.299k	37.86	49.37	-11.51	Line	-
Mode 1	Pass	QP	531.714k	28.50	56.00	-27.50	Line	-
Mode 1	Pass	AV	531.714k	23.23	46.00	-22.77	Line	-
Mode 1	Pass	QP	2.81M	20.60	56.00	-35.40	Line	-
Mode 1	Pass	AV	2.81M	17.25	46.00	-28.75	Line	-
Mode 1	Pass	QP	21.779M	27.32	60.00	-32.68	Line	-
Mode 1	Pass	AV	21.779M	20.54	50.00	-29.46	Line	-
Mode 1	Pass	QP	154.868k	45.52	65.73	-20.21	Neutral	-
Mode 1	Pass	AV	154.868k	34.11	55.73	-21.62	Neutral	-
Mode 1	Pass	QP	165.082k	44.23	65.20	-20.97	Neutral	-
Mode 1	Pass	AV	165.082k	32.90	55.20	-22.30	Neutral	-
Mode 1	Pass	QP	334.632k	40.88	59.33	-18.45	Neutral	-
Mode 1	Pass	AV	334.632k	33.73	49.33	-15.60	Neutral	-
Mode 1	Pass	QP	999.091k	24.99	56.00	-31.01	Neutral	-
Mode 1	Pass	AV	999.091k	21.09	46.00	-24.91	Neutral	-
Mode 1	Pass	QP	4.572M	23.30	56.00	-32.70	Neutral	-
Mode 1	Pass	AV	4.572M	18.76	46.00	-27.24	Neutral	-
Mode 1	Pass	QP	23.873M	30.10	60.00	-29.90	Neutral	-
Mode 1	Pass	AV	23.873M	24.00	50.00	-26.00	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	153.024k	45.09	65.83	-20.74	19.56	Line	-	25.53	9.61	0.04	9.91			
AV	153.024k	32.19	55.83	-23.64	19.56	Line	-	12.63	9.61	0.04	9.91			
QP	163.769k	44.14	65.27	-21.13	19.56	Line	-	24.58	9.61	0.04	9.91			
AV	163.769k	32.81	55.27	-22.46	19.56	Line	-	13.25	9.61	0.04	9.91			
QP	333.299k	44.69	59.37	-14.68	19.56	Line	-	25.13	9.60	0.05	9.91			
AV	333.299k	37.86	49.37	-11.51	19.56	Line	-	18.30	9.60	0.05	9.91			
QP	531.714k	28.50	56.00	-27.50	19.58	Line	-	8.92	9.60	0.07	9.91			
AV	531.714k	23.23	46.00	-22.77	19.58	Line	-	3.65	9.60	0.07	9.91			
QP	2.81M	20.60	56.00	-35.40	19.67	Line	-	0.93	9.63	0.12	9.92			
AV	2.81M	17.25	46.00	-28.75	19.67	Line	-	-2.42	9.63	0.12	9.92			
QP	21.779M	27.32	60.00	-32.68	19.97	Line	-	7.35	9.73	0.31	9.93			
AV	21.779M	20.54	50.00	-29.46	19.97	Line	-	0.57	9.73	0.31	9.93			

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	154.868k	45.52	65.73	-20.21	19.55	Neutral	-	25.97	9.60	0.04	9.91			
AV	154.868k	34.11	55.73	-21.62	19.55	Neutral	-	14.56	9.60	0.04	9.91			
QP	165.082k	44.23	65.20	-20.97	19.55	Neutral	-	24.68	9.60	0.04	9.91			
AV	165.082k	32.90	55.20	-22.30	19.55	Neutral	-	13.35	9.60	0.04	9.91			
QP	334.632k	40.88	59.33	-18.45	19.56	Neutral	-	21.32	9.60	0.05	9.91			
AV	334.632k	33.73	49.33	-15.60	19.56	Neutral	-	14.17	9.60	0.05	9.91			
QP	999.091k	24.99	56.00	-31.01	19.62	Neutral	-	5.37	9.62	0.08	9.92			
AV	999.091k	21.09	46.00	-24.91	19.62	Neutral	-	1.47	9.62	0.08	9.92			
QP	4.572M	23.30	56.00	-32.70	19.74	Neutral	-	3.56	9.67	0.15	9.92			
AV	4.572M	18.76	46.00	-27.24	19.74	Neutral	-	-0.98	9.67	0.15	9.92			
QP	23.873M	30.10	60.00	-29.90	20.18	Neutral	-	9.92	9.93	0.32	9.93			
AV	23.873M	24.00	50.00	-26.00	20.18	Neutral	-	3.82	9.93	0.32	9.93			

**Summary**

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.15-5.25GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	21.72M	17.121M	17M1D1D	21.36M	16.882M
802.11ax HEW20_Nss1,(MCS0)_4TX	21.75M	19.16M	19M2D1D	21.45M	19.07M
802.11ax HEW40_Nss1,(MCS0)_4TX	40.2M	37.661M	37M7D1D	39.78M	37.601M
802.11ax HEW80_Nss1,(MCS0)_4TX	81.72M	77.241M	77M2D1D	81.36M	77.001M
802.11ax HEW160_Nss1,(MCS0)_4TX	82.48M	78.121M	78M1D1D	81.44M	77.961M
5.25-5.35GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	21.72M	17.121M	17M1D1D	21.42M	16.882M
802.11ax HEW20_Nss1,(MCS0)_4TX	21.75M	19.19M	19M2D1D	21.39M	19.07M
802.11ax HEW40_Nss1,(MCS0)_4TX	40.08M	37.721M	37M7D1D	39.84M	37.601M
802.11ax HEW80_Nss1,(MCS0)_4TX	81.6M	77.361M	77M4D1D	80.88M	77.121M
802.11ax HEW160_Nss1,(MCS0)_4TX	83.44M	78.121M	78M1D1D	82.32M	77.801M
5.47-5.725GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	21.81M	17.181M	17M2D1D	15.495M	13.478M
802.11ax HEW20_Nss1,(MCS0)_4TX	21.84M	19.19M	19M2D1D	15.645M	14.528M
802.11ax HEW40_Nss1,(MCS0)_4TX	40.14M	37.721M	37M7D1D	34.965M	33.758M
802.11ax HEW80_Nss1,(MCS0)_4TX	81.72M	77.241M	77M2D1D	75.675M	73.088M
802.11ax HEW160_Nss1,(MCS0)_4TX	165.84M	155.442M	155MD1D	163.68M	155.202M
5.725-5.85GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	16.56M	17.181M	17M2D1D	3.14M	4.318M
802.11ax HEW20_Nss1,(MCS0)_4TX	19.02M	19.22M	19M2D1D	4.42M	4.658M
802.11ax HEW40_Nss1,(MCS0)_4TX	37.62M	37.781M	37M8D1D	3.7M	4.098M
802.11ax HEW80_Nss1,(MCS0)_4TX	77.28M	77.361M	77M4D1D	3.54M	4.158M

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

Result

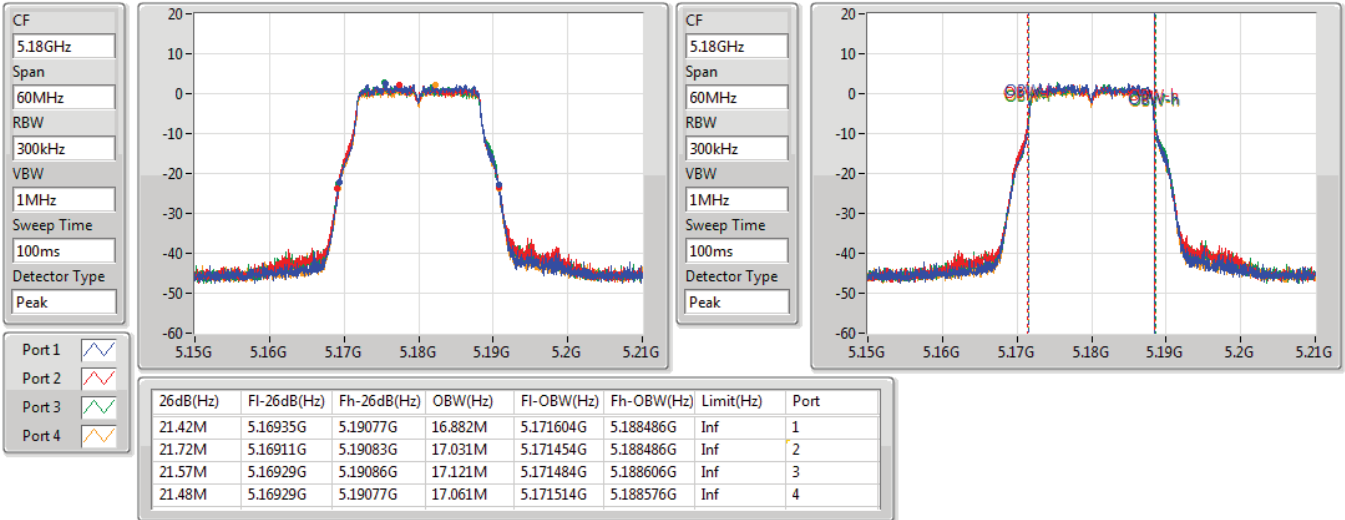
Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)	Port 3-N dB (Hz)	Port 3-OBW (Hz)	Port 4-N dB (Hz)	Port 4-OBW (Hz)
802.11a_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	Inf	21.42M	16.882M	21.72M	17.031M	21.57M	17.121M	21.48M	17.061M
5200MHz	Pass	Inf	21.57M	16.882M	21.63M	17.031M	21.6M	17.091M	21.51M	17.061M
5240MHz	Pass	Inf	21.39M	16.882M	21.69M	17.061M	21.6M	17.091M	21.36M	17.061M
5260MHz	Pass	Inf	21.54M	16.912M	21.69M	17.091M	21.45M	17.121M	21.45M	17.061M
5300MHz	Pass	Inf	21.6M	16.882M	21.48M	17.061M	21.72M	17.121M	21.51M	17.031M
5320MHz	Pass	Inf	21.54M	16.912M	21.63M	17.061M	21.6M	17.091M	21.42M	17.031M
5500MHz	Pass	Inf	21.54M	16.912M	21.75M	17.061M	21.6M	17.151M	21.42M	17.031M
5580MHz	Pass	Inf	21.51M	16.912M	21.66M	17.091M	21.72M	17.181M	21.45M	17.061M
5700MHz	Pass	Inf	21.6M	16.882M	21.81M	17.031M	21.63M	17.121M	21.45M	17.061M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	15.57M	13.478M	15.78M	13.628M	15.69M	13.583M	15.495M	13.508M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	3.14M	4.318M	3.14M	4.458M	3.14M	4.538M	3.22M	4.418M
5745MHz	Pass	500k	16.35M	16.912M	16.56M	17.091M	16.35M	17.151M	16.32M	17.061M
5785MHz	Pass	500k	16.35M	16.912M	16.35M	17.121M	16.35M	17.151M	16.35M	17.091M
5825MHz	Pass	500k	16.35M	16.912M	16.35M	17.091M	16.35M	17.181M	16.35M	17.091M
802.11ax HEW20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	Inf	21.75M	19.16M	21.75M	19.13M	21.6M	19.1M	21.72M	19.07M
5200MHz	Pass	Inf	21.57M	19.16M	21.75M	19.1M	21.72M	19.13M	21.66M	19.07M
5240MHz	Pass	Inf	21.66M	19.16M	21.69M	19.13M	21.45M	19.1M	21.69M	19.07M
5260MHz	Pass	Inf	21.69M	19.16M	21.6M	19.13M	21.75M	19.13M	21.69M	19.07M
5300MHz	Pass	Inf	21.69M	19.19M	21.69M	19.1M	21.39M	19.13M	21.63M	19.07M
5320MHz	Pass	Inf	21.72M	19.16M	21.66M	19.1M	21.51M	19.1M	21.57M	19.07M
5500MHz	Pass	Inf	21.78M	19.19M	21.84M	19.13M	21.54M	19.1M	21.69M	19.07M
5580MHz	Pass	Inf	21.75M	19.16M	21.45M	19.13M	21.51M	19.07M	21.72M	19.07M
5700MHz	Pass	Inf	21.72M	19.19M	21.75M	19.13M	21.57M	19.1M	21.66M	19.07M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	15.765M	14.528M	15.735M	14.573M	15.645M	14.543M	15.765M	14.543M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	4.54M	4.778M	4.42M	4.738M	4.48M	4.758M	4.44M	4.658M
5745MHz	Pass	500k	18.87M	19.19M	18.9M	19.16M	18.96M	19.16M	18.93M	19.1M
5785MHz	Pass	500k	18.93M	19.22M	18.9M	19.16M	18.96M	19.16M	18.93M	19.07M
5825MHz	Pass	500k	19.02M	19.19M	18.93M	19.16M	18.93M	19.13M	18.99M	19.07M
802.11ax HEW40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	Inf	40.2M	37.661M	39.9M	37.661M	39.84M	37.601M	40.08M	37.661M
5230MHz	Pass	Inf	39.96M	37.661M	40.02M	37.661M	39.78M	37.661M	40.08M	37.661M
5270MHz	Pass	Inf	40.02M	37.661M	40.02M	37.661M	39.84M	37.601M	40.02M	37.661M
5310MHz	Pass	Inf	40.08M	37.661M	39.96M	37.661M	39.84M	37.601M	40.08M	37.721M
5510MHz	Pass	Inf	40.08M	37.661M	39.84M	37.721M	39.9M	37.661M	40.02M	37.721M
5550MHz	Pass	Inf	40.02M	37.721M	39.78M	37.661M	39.84M	37.601M	40.14M	37.661M
5670MHz	Pass	Inf	40.08M	37.661M	40.14M	37.721M	39.9M	37.661M	40.14M	37.721M
5710MHz Straddle 5.47-5.725GHz	Pass	Inf	35.14M	33.793M	34.965M	33.758M	34.965M	33.758M	35M	33.758M
5710MHz Straddle 5.725-5.85GHz	Pass	500k	3.7M	4.098M	3.8M	4.098M	3.74M	4.098M	3.84M	4.118M
5755MHz	Pass	500k	37.56M	37.721M	37.62M	37.661M	37.26M	37.721M	37.44M	37.661M
5795MHz	Pass	500k	36.84M	37.721M	37.62M	37.781M	37.38M	37.721M	37.62M	37.721M
802.11ax HEW80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	Inf	81.72M	77.241M	81.6M	77.121M	81.36M	77.121M	81.48M	77.001M
5290MHz	Pass	Inf	81.6M	77.361M	81.36M	77.121M	80.88M	77.361M	81.6M	77.361M
5530MHz	Pass	Inf	81.72M	77.121M	81.48M	77.121M	81.48M	77.241M	81.72M	77.241M
5610MHz	Pass	Inf	81.72M	77.121M	81.36M	77.121M	81M	77.241M	81.72M	77.241M
5690MHz Straddle 5.47-5.725GHz	Pass	Inf	75.975M	73.163M	75.75M	73.088M	75.675M	73.088M	75.75M	73.238M
5690MHz Straddle 5.725-5.85GHz	Pass	500k	3.54M	4.198M	3.76M	4.158M	3.84M	4.178M	3.78M	4.178M
5775MHz	Pass	500k	76.32M	77.241M	76.56M	77.241M	76.32M	77.361M	77.28M	77.361M
802.11ax HEW160_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	Inf	81.44M	78.041M	82.08M	77.961M	82.48M	78.041M	82.24M	78.121M
5250MHz Straddle 5.25-5.35GHz	Pass	Inf	82.4M	77.881M	82.32M	77.881M	83.44M	78.121M	82.32M	77.801M
5570MHz	Pass	Inf	163.68M	155.202M	163.92M	155.202M	165.84M	155.442M	163.68M	155.442M



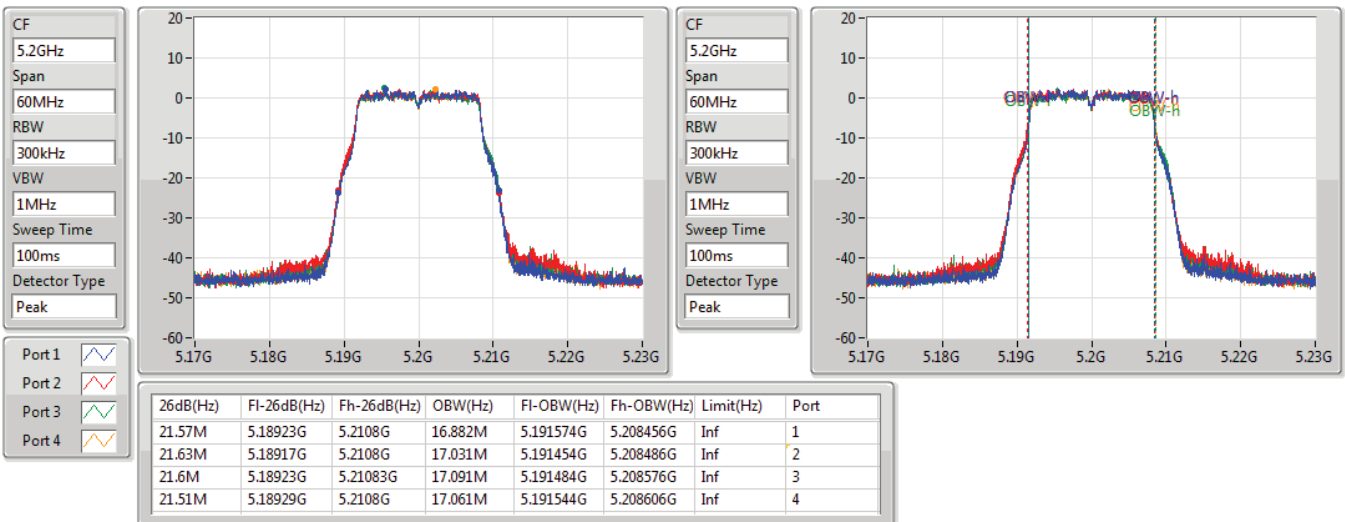
Port X-N dB = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band
Port X-OBW = Port X 99% occupied bandwidth

802.11a_Nss1,(6Mbps)_4TX
EBW
5180MHz

20/12/2021


802.11a_Nss1,(6Mbps)_4TX
EBW
5200MHz

20/12/2021

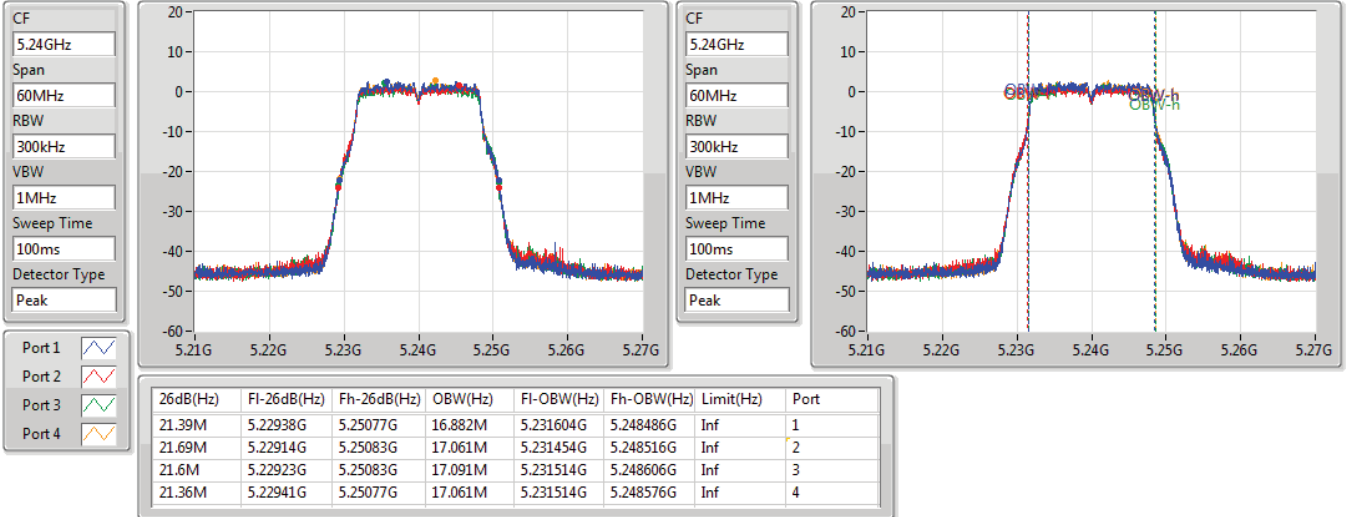


802.11a_Nss1,(6Mbps)_4TX

EBW

5240MHz

20/12/2021

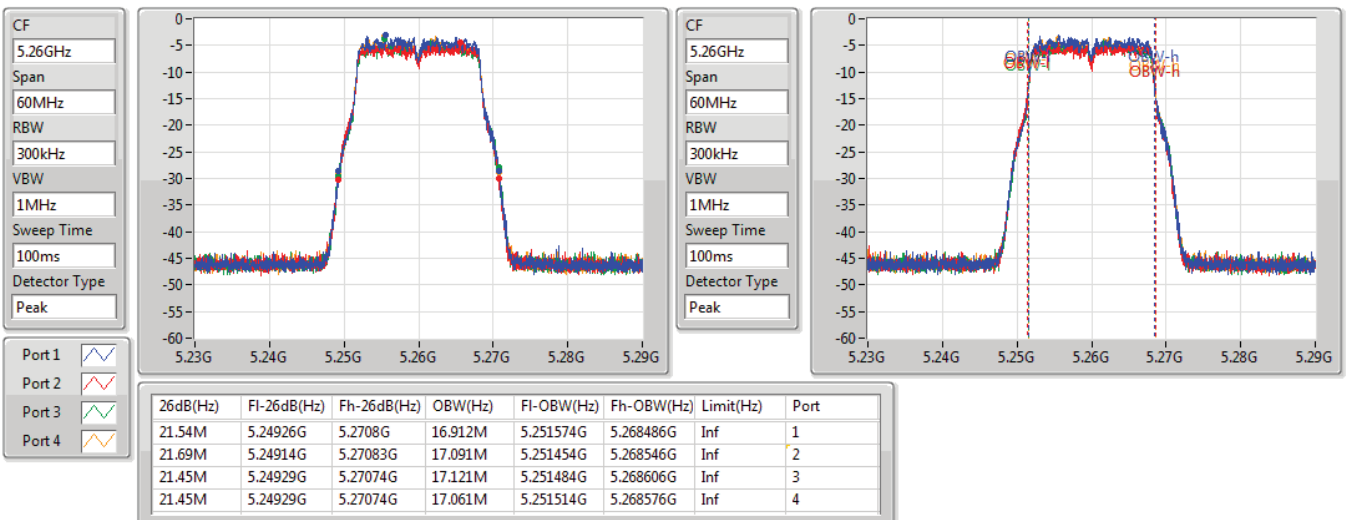


802.11a_Nss1,(6Mbps)_4TX

EBW

5260MHz

20/12/2021

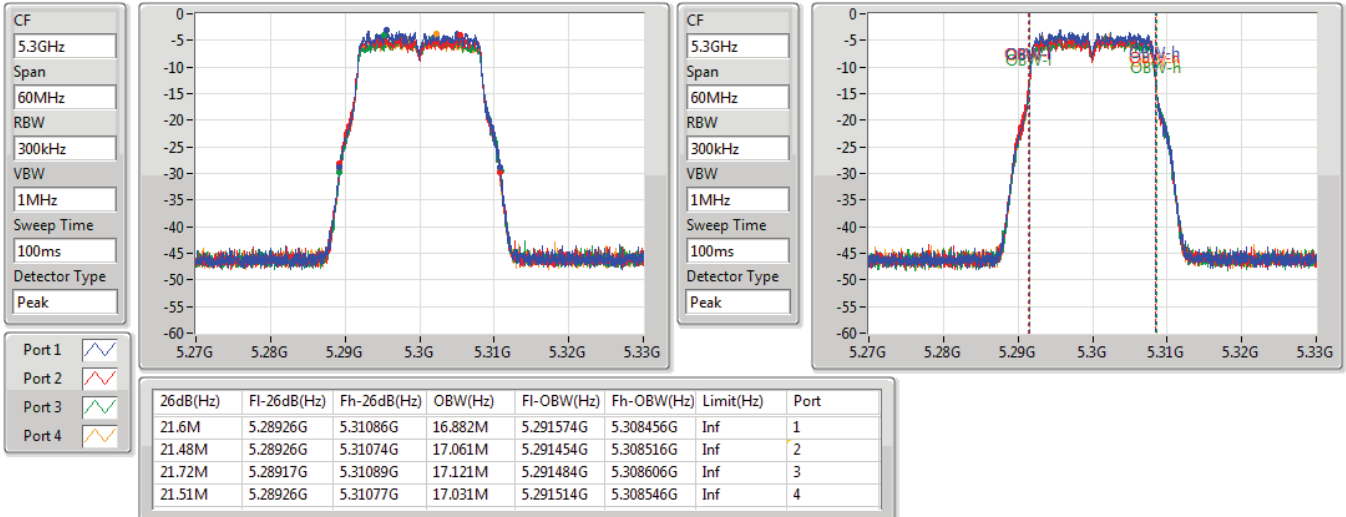


802.11a_Nss1,(6Mbps)_4TX

EBW

5300MHz

20/12/2021

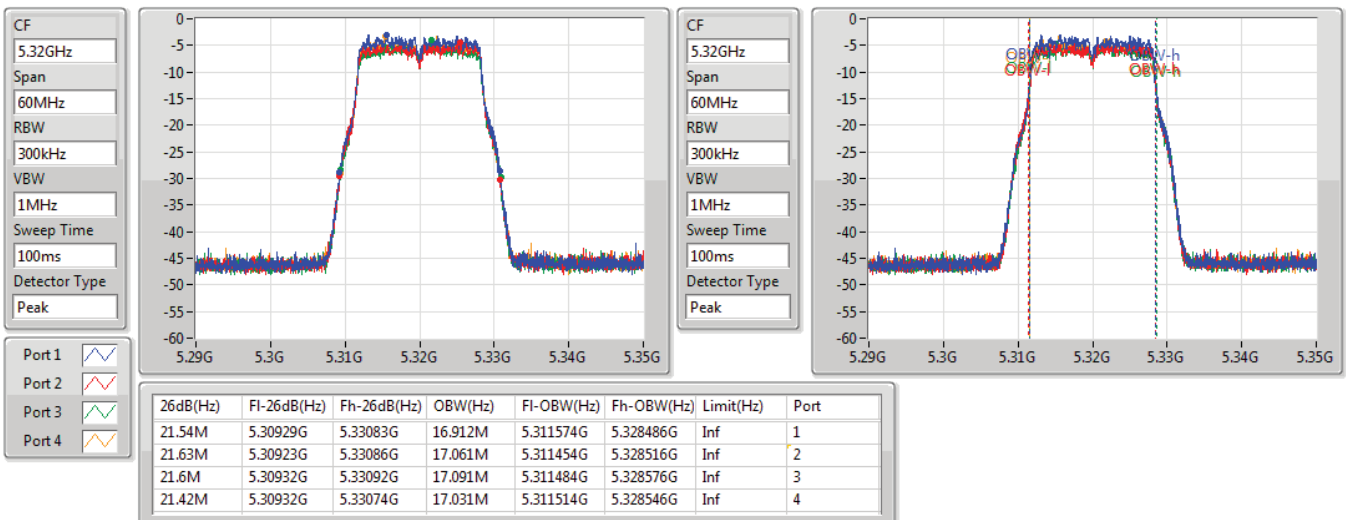


802.11a_Nss1,(6Mbps)_4TX

EBW

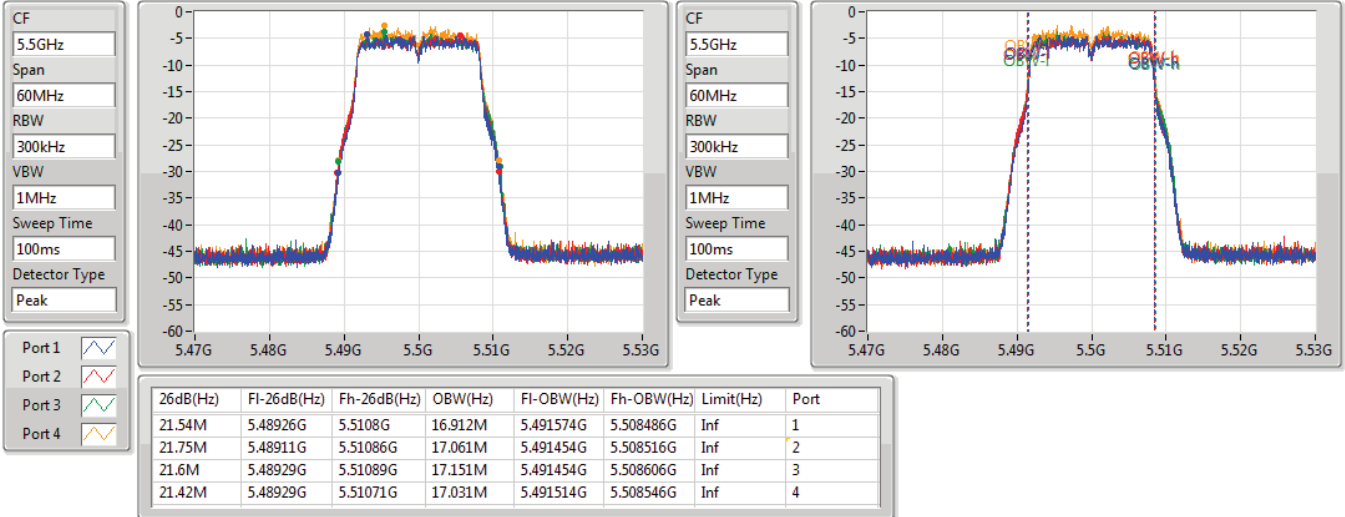
5320MHz

20/12/2021

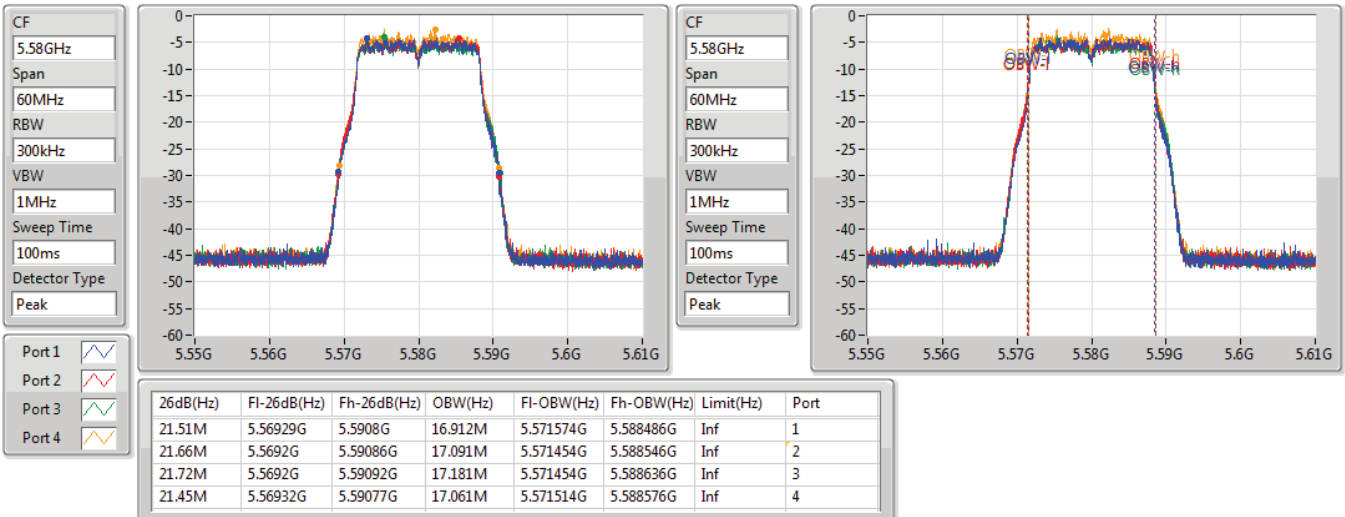


802.11a_Nss1,(6Mbps)_4TX
EBW
5500MHz

20/12/2021


802.11a_Nss1,(6Mbps)_4TX
EBW
5580MHz

20/12/2021

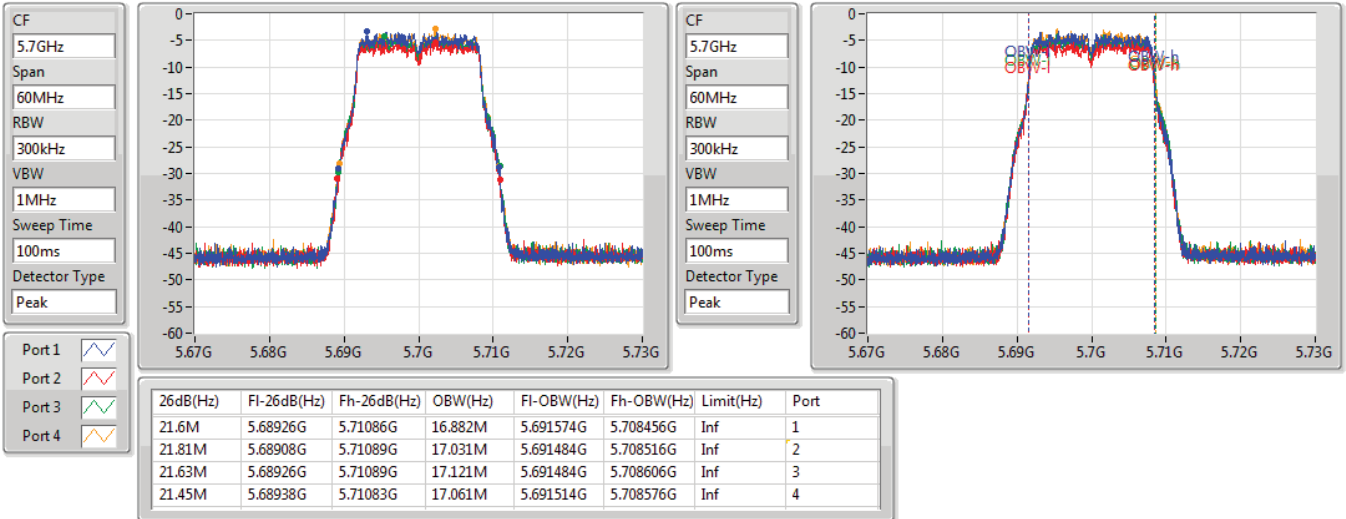


802.11a_Nss1,(6Mbps)_4TX

EBW

5700MHz

20/12/2021

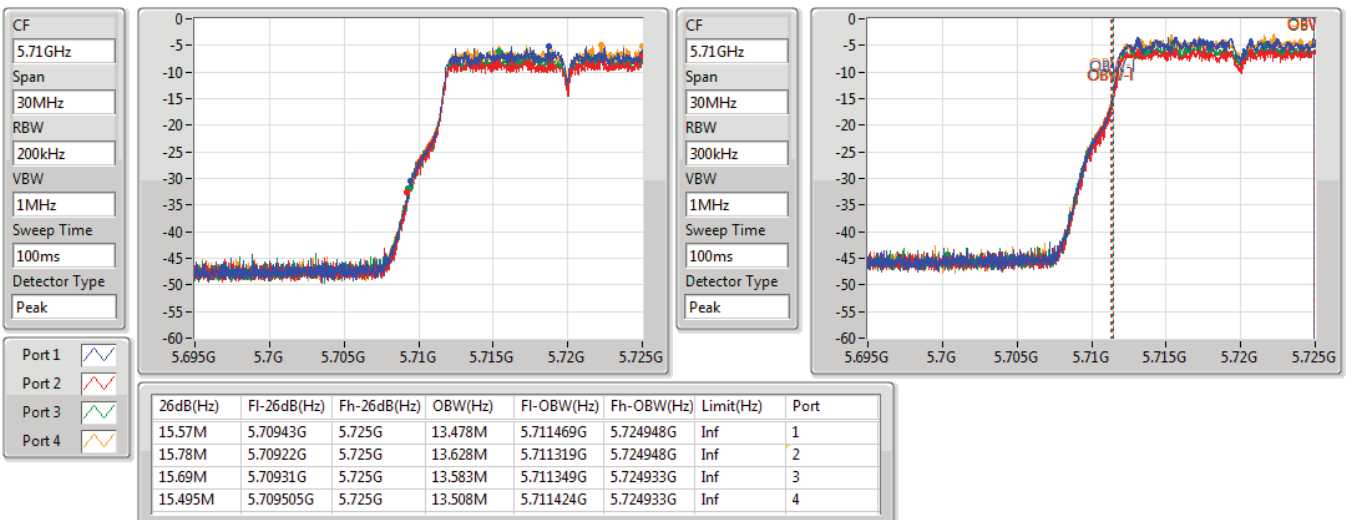


802.11a_Nss1,(6Mbps)_4TX

EBW

5720MHz Straddle 5.47-5.725GHz

20/12/2021

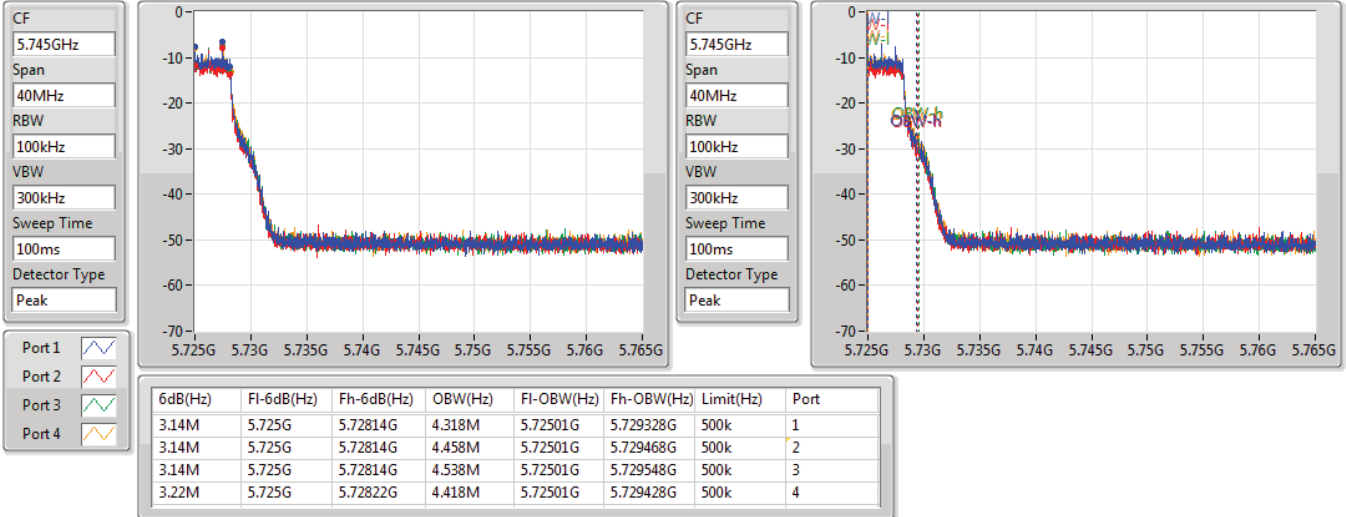


802.11a_Nss1,(6Mbps)_4TX

EBW

5720MHz Straddle 5.725-5.85GHz

20/12/2021

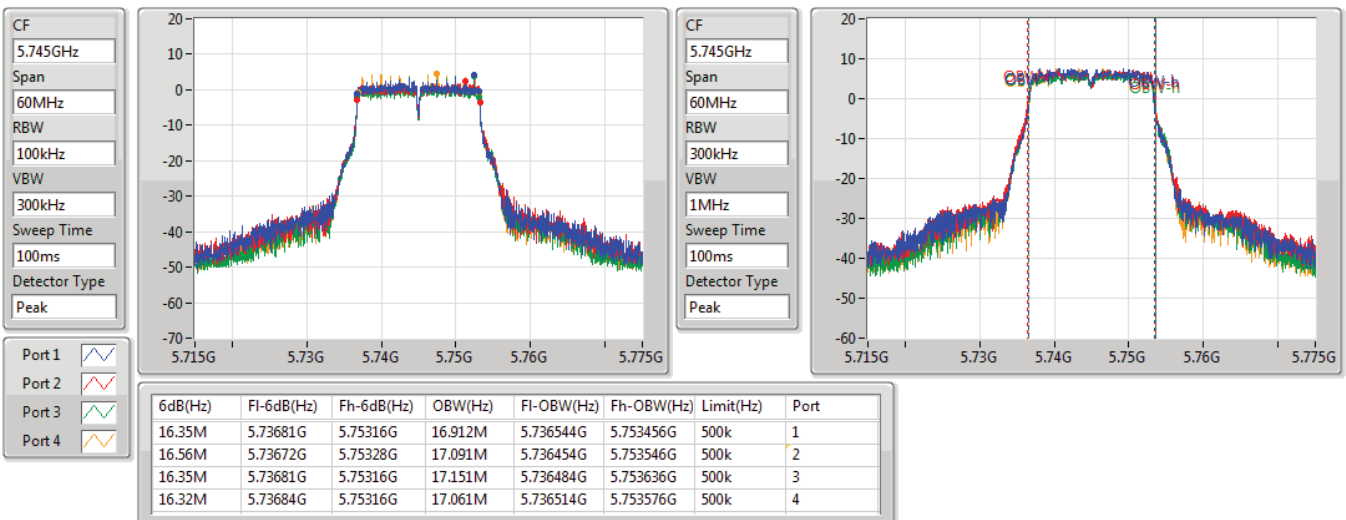


802.11a_Nss1,(6Mbps)_4TX

EBW

5745MHz

20/12/2021

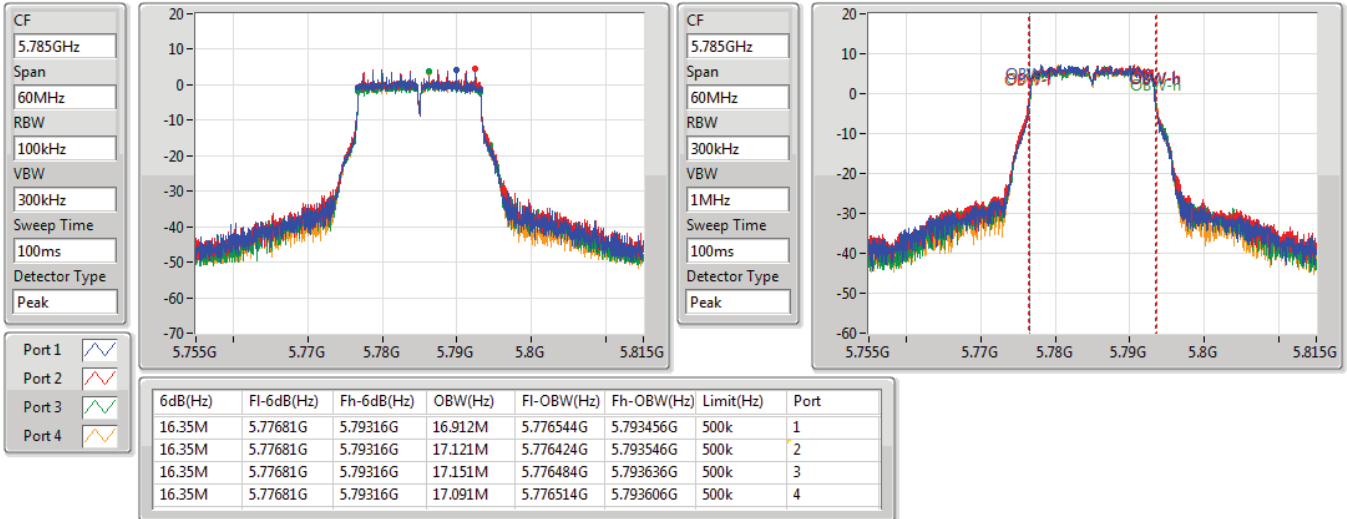


802.11a_Nss1,(6Mbps)_4TX

EBW

5785MHz

20/12/2021

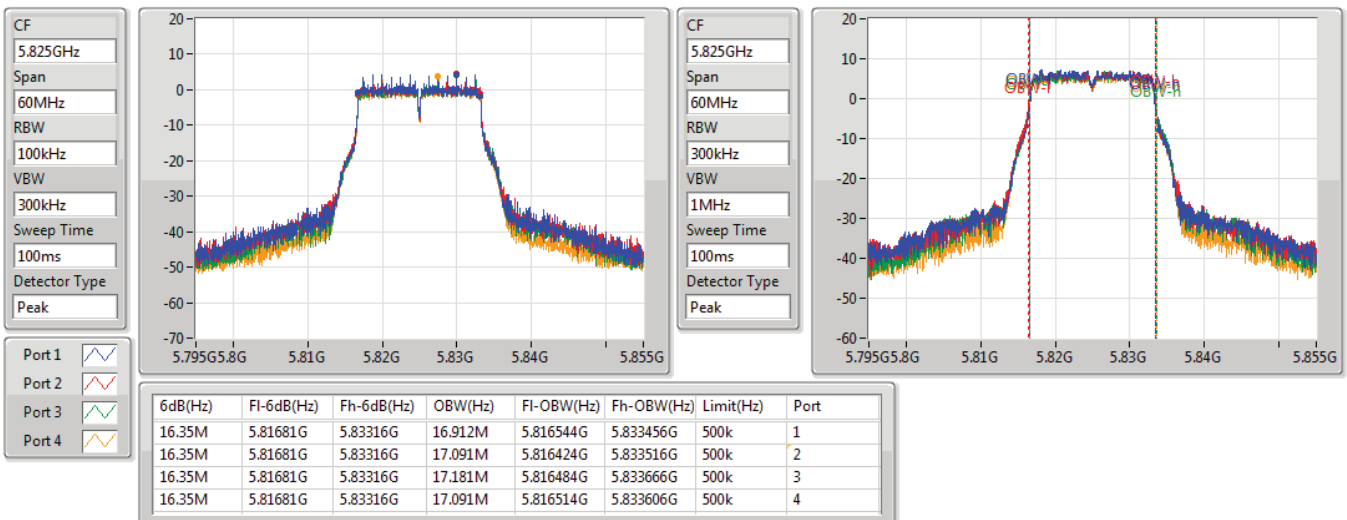


802.11a_Nss1,(6Mbps)_4TX

EBW

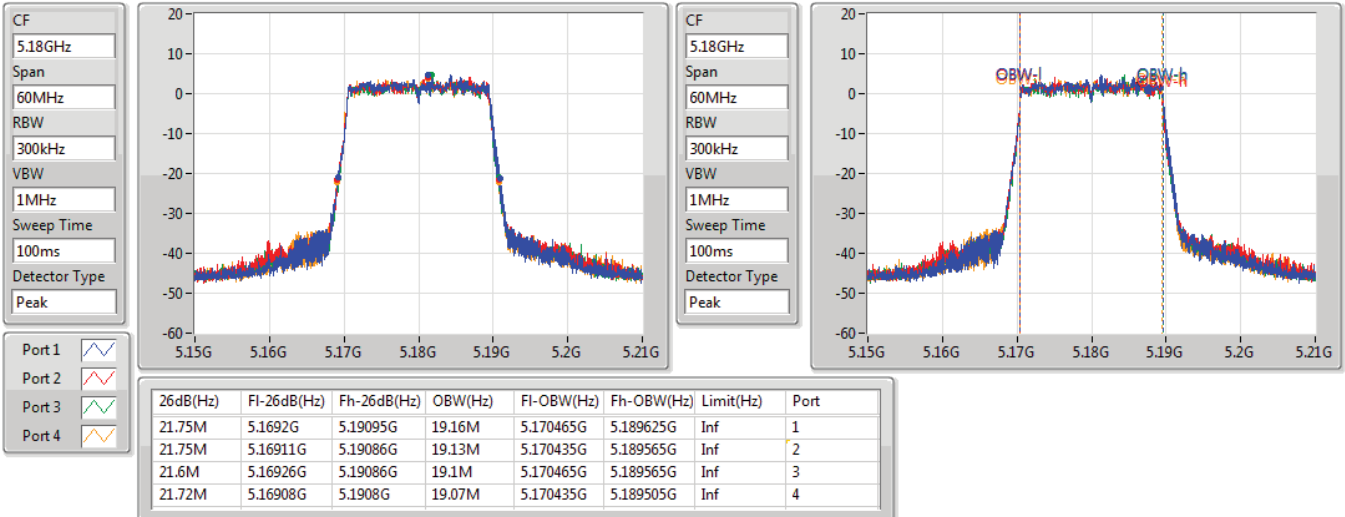
5825MHz

20/12/2021

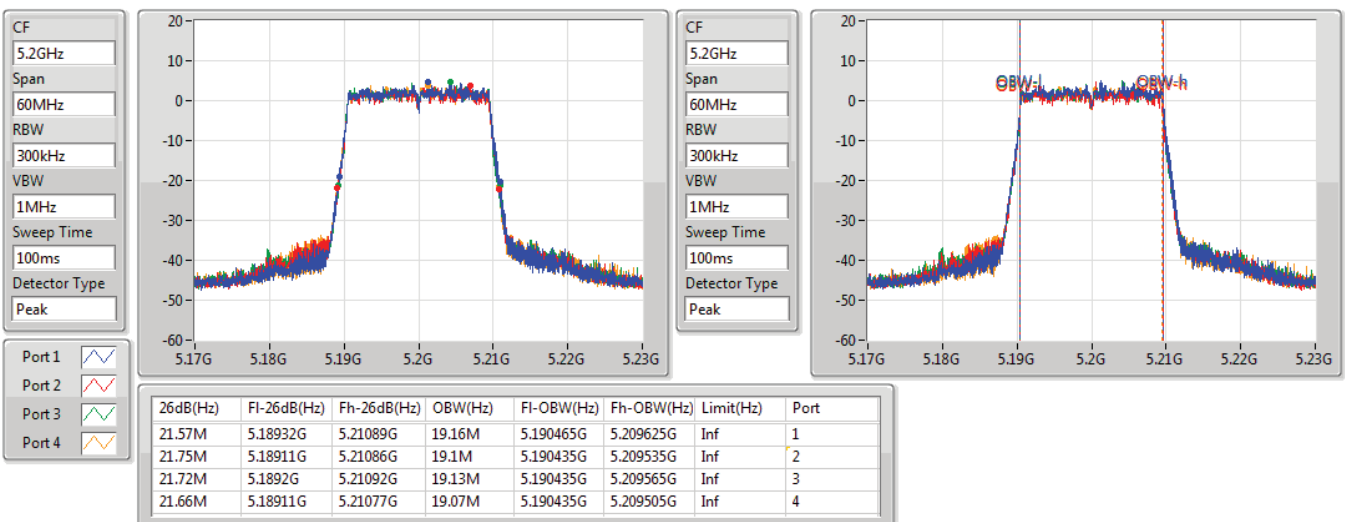


802.11ax HEW20_Nss1,(MCS0)_4TX
EBW
5180MHz

20/12/2021


802.11ax HEW20_Nss1,(MCS0)_4TX
EBW
5200MHz

20/12/2021

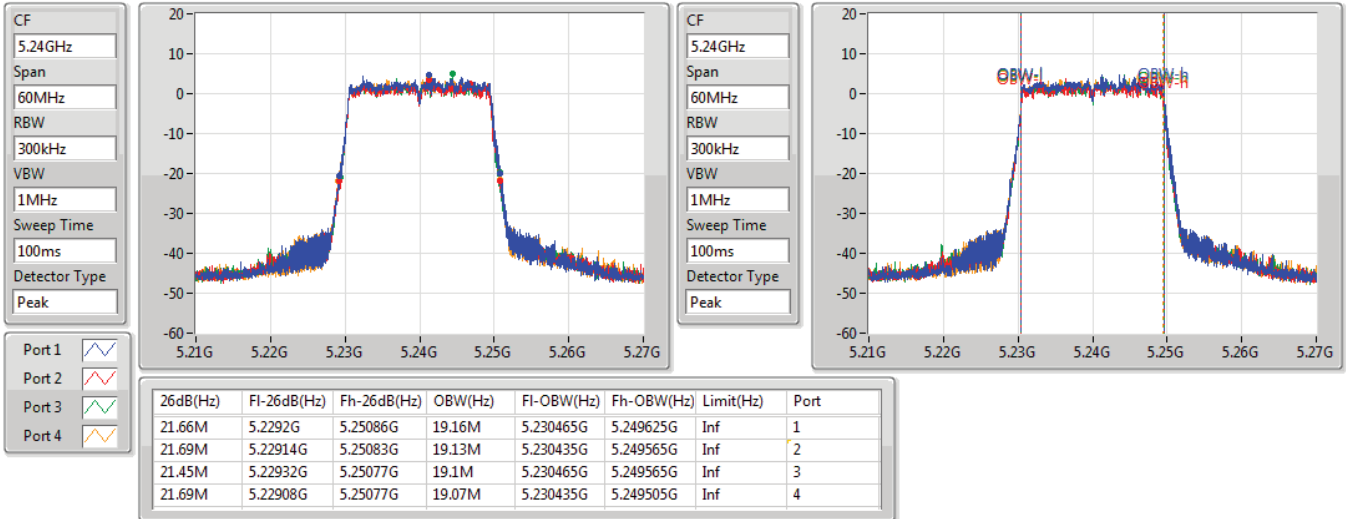


802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

5240MHz

20/12/2021

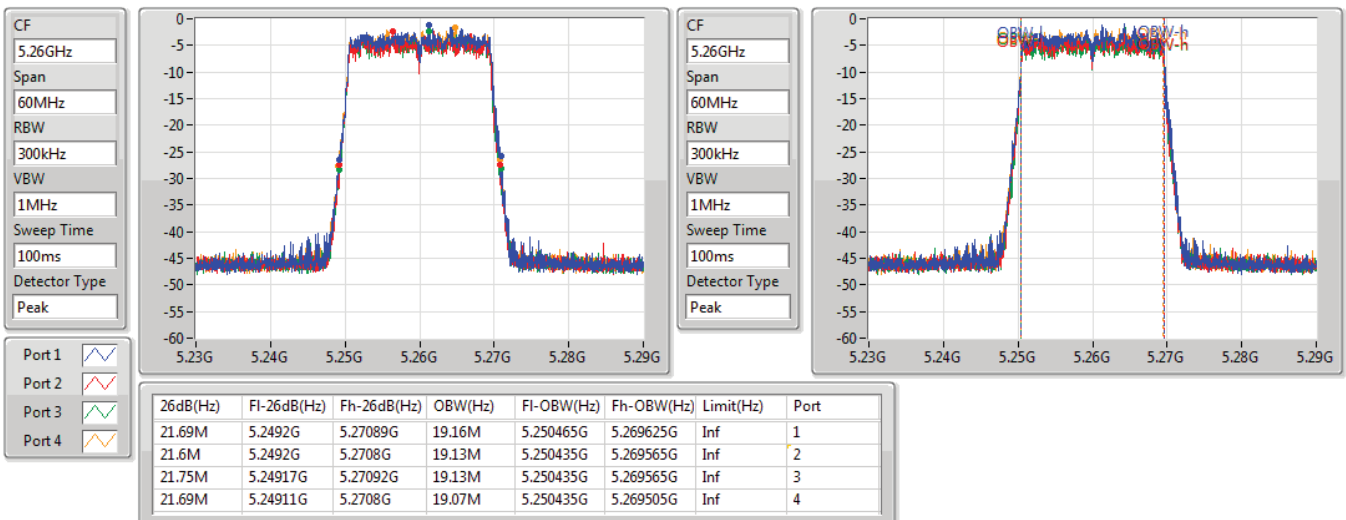


802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

5260MHz

20/12/2021

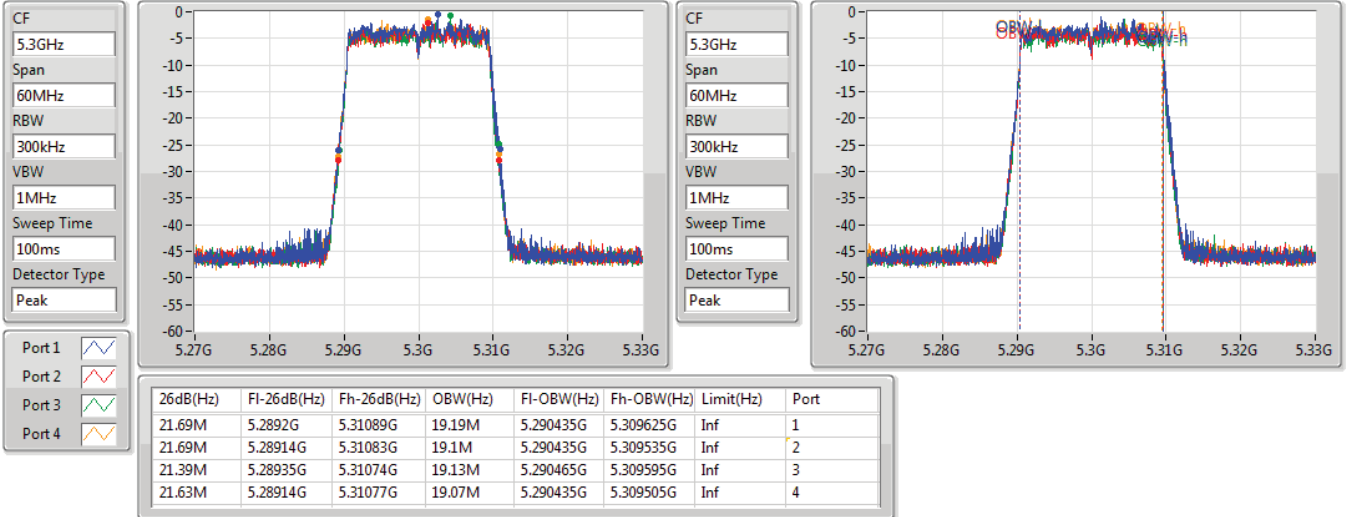


802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

5300MHz

20/12/2021

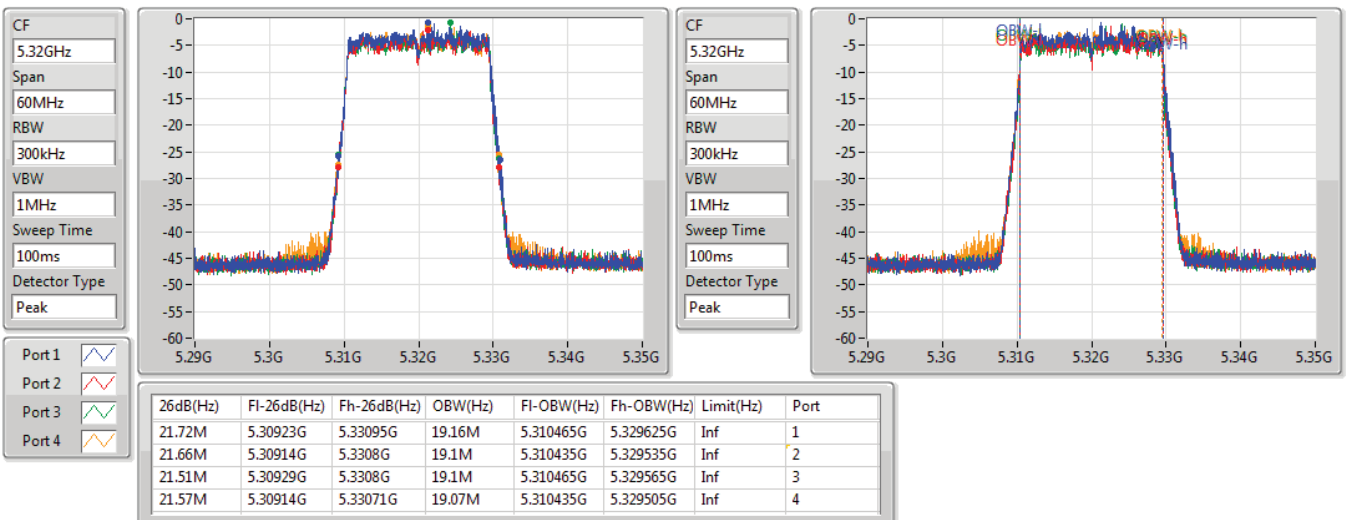


802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

5320MHz

20/12/2021

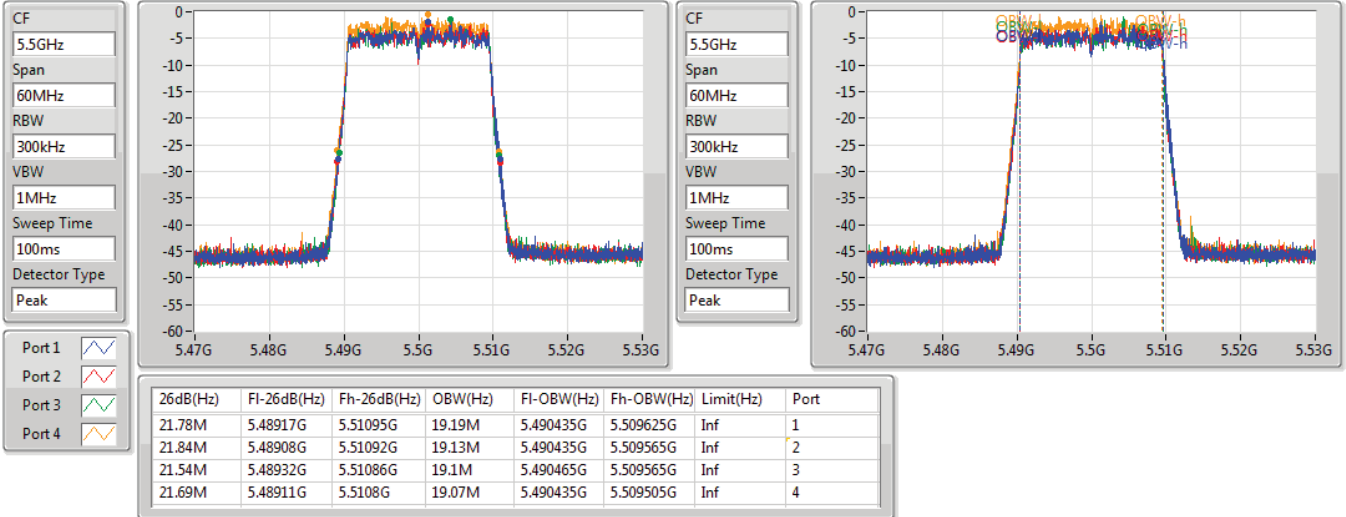


802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

5500MHz

20/12/2021

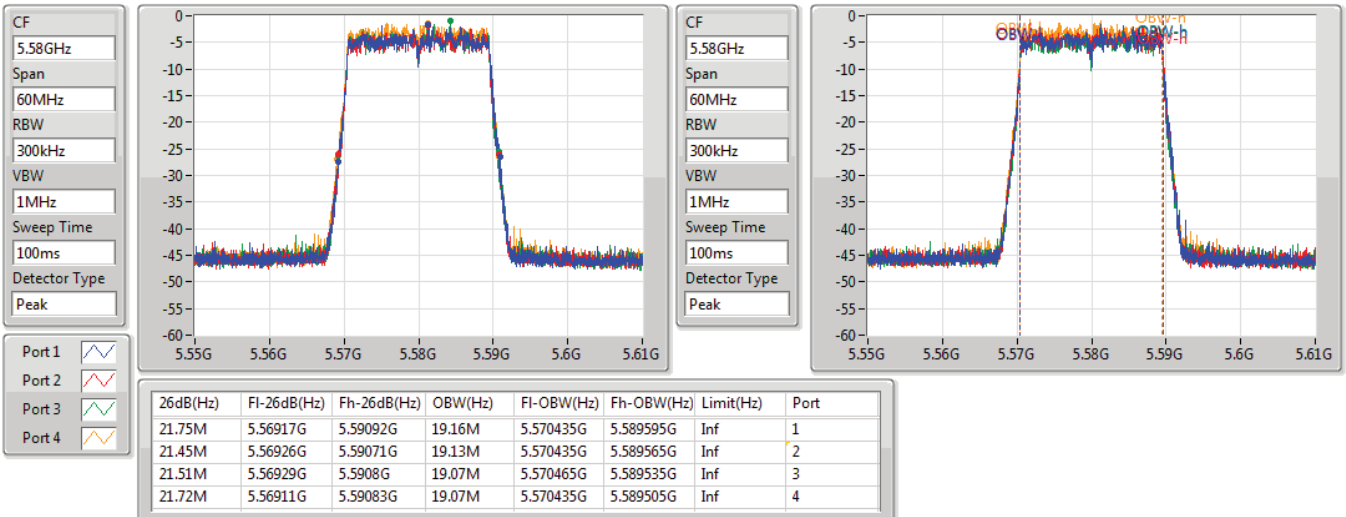


802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

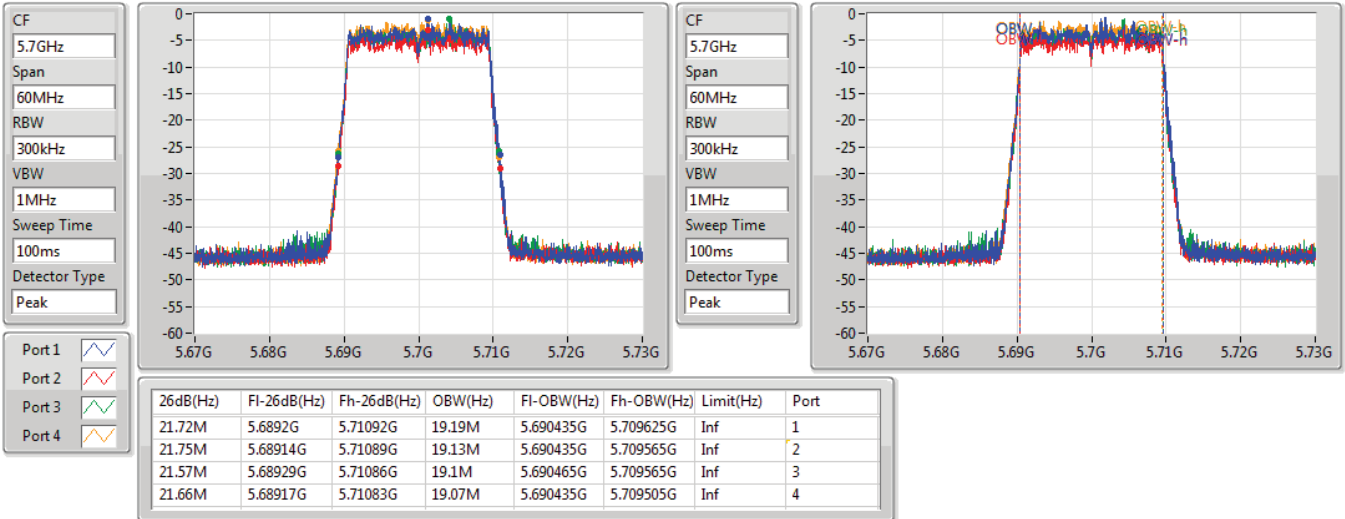
5580MHz

20/12/2021

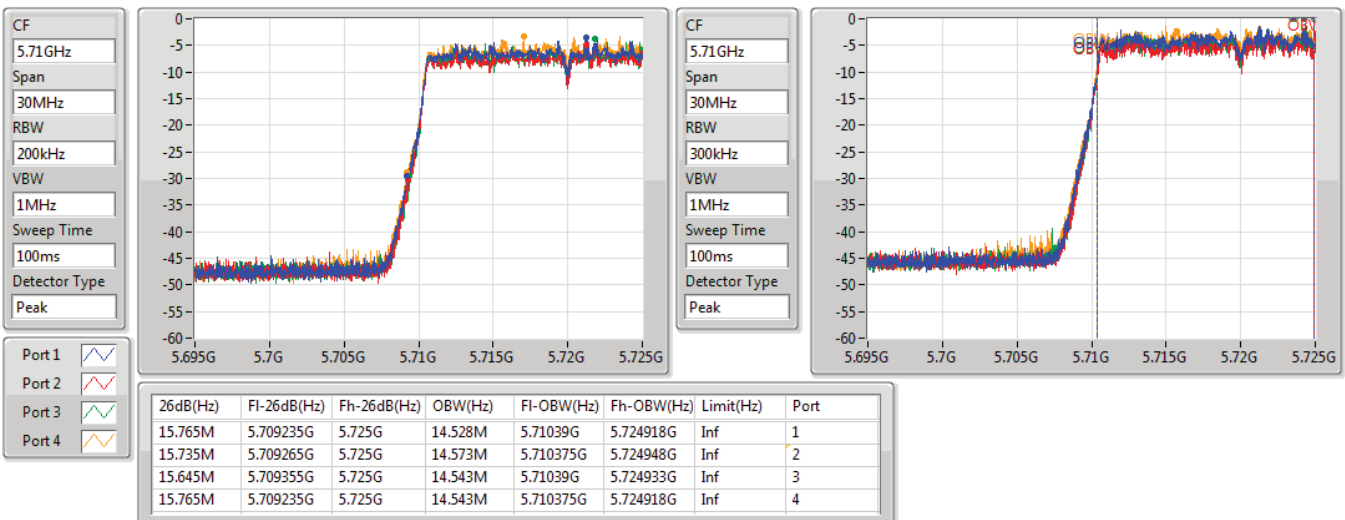


802.11ax HEW20_Nss1,(MCS0)_4TX
EBW
5700MHz

20/12/2021


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

20/12/2021

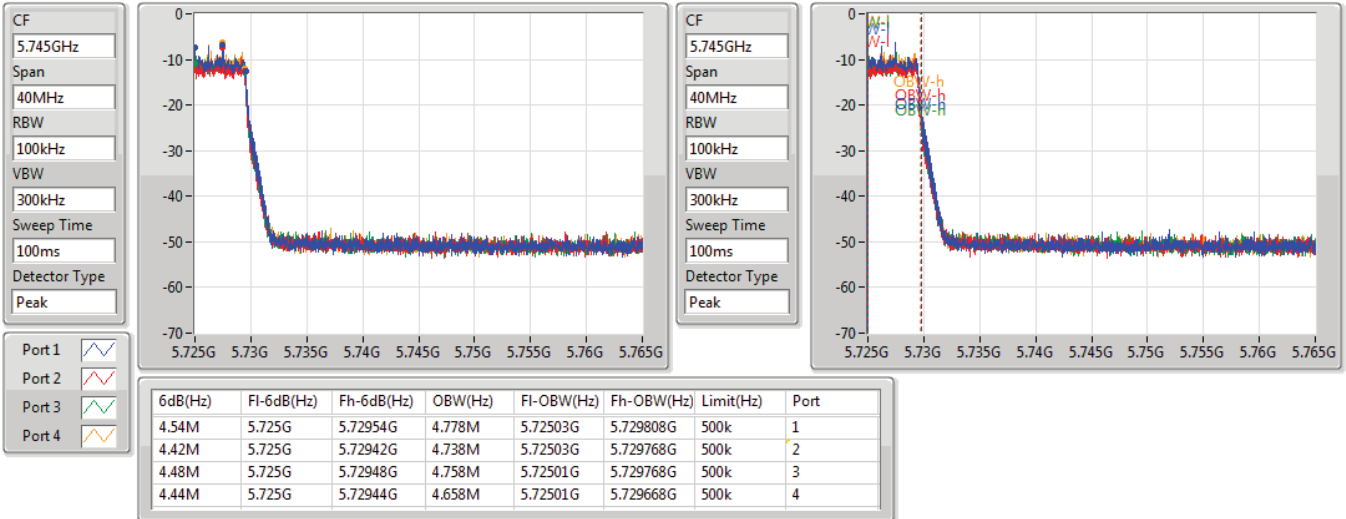


802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

5720MHz Straddle 5.725-5.85GHz

20/12/2021

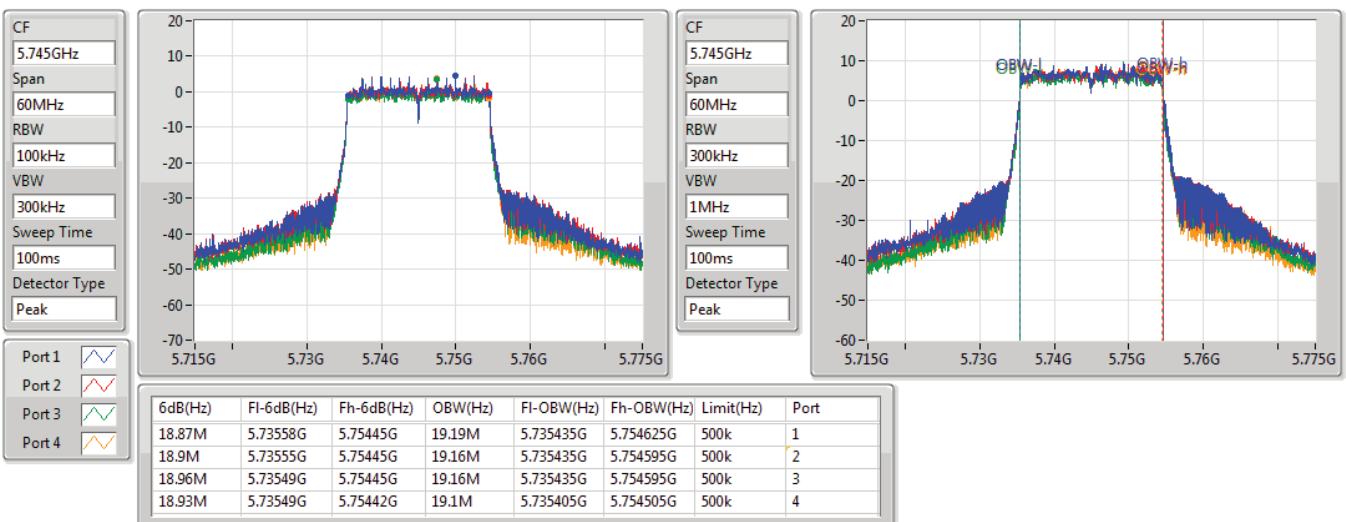


802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

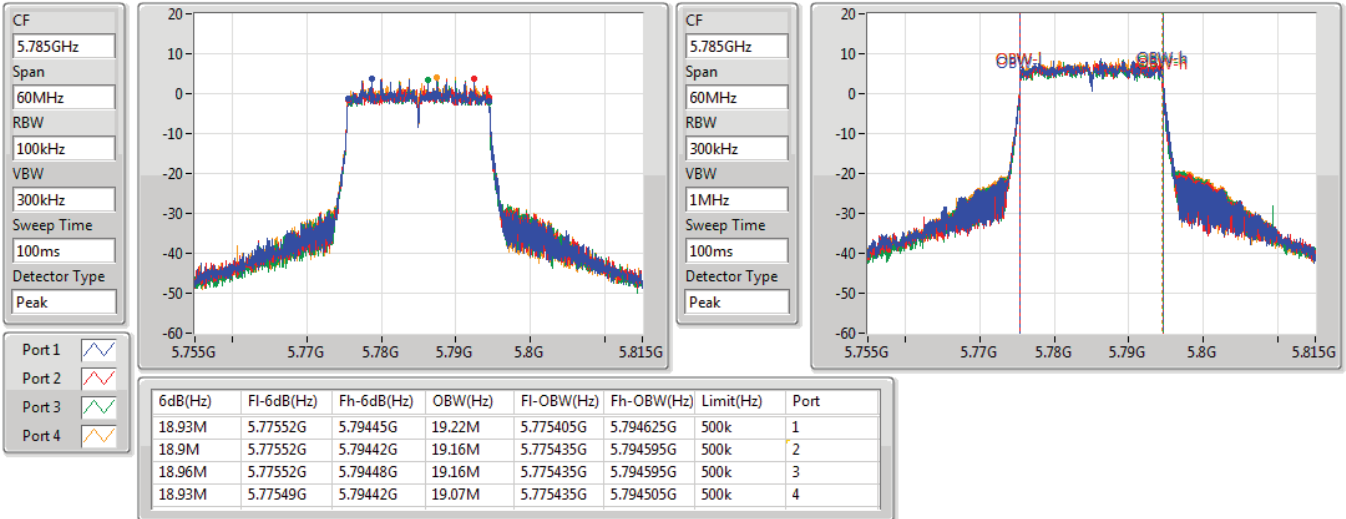
5745MHz

20/12/2021

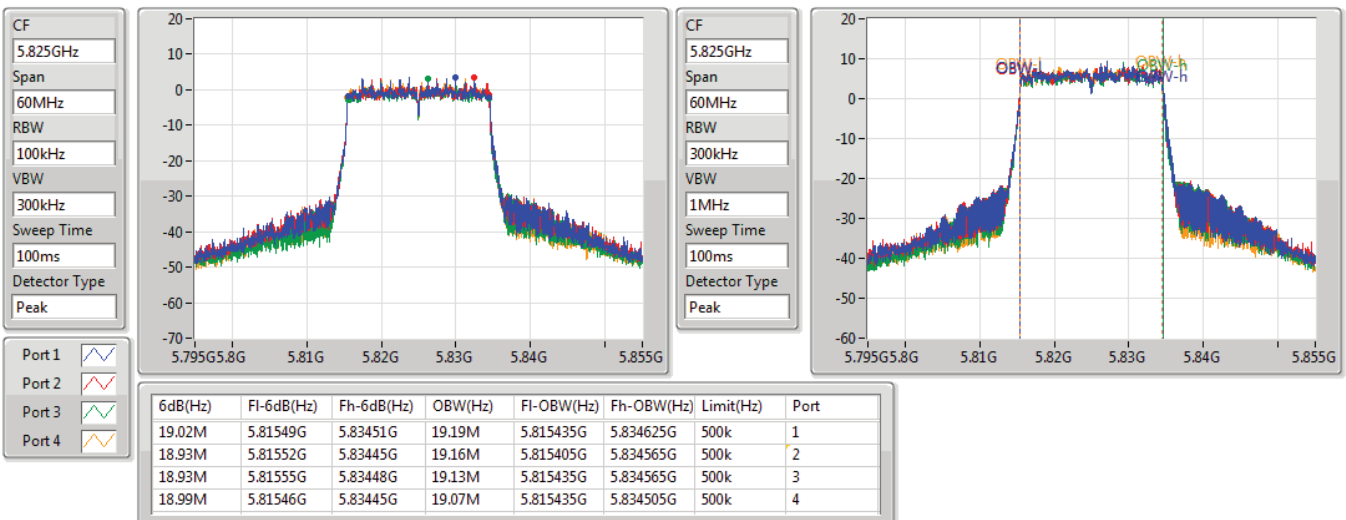


802.11ax HEW20_Nss1,(MCS0)_4TX
EBW
5785MHz

20/12/2021

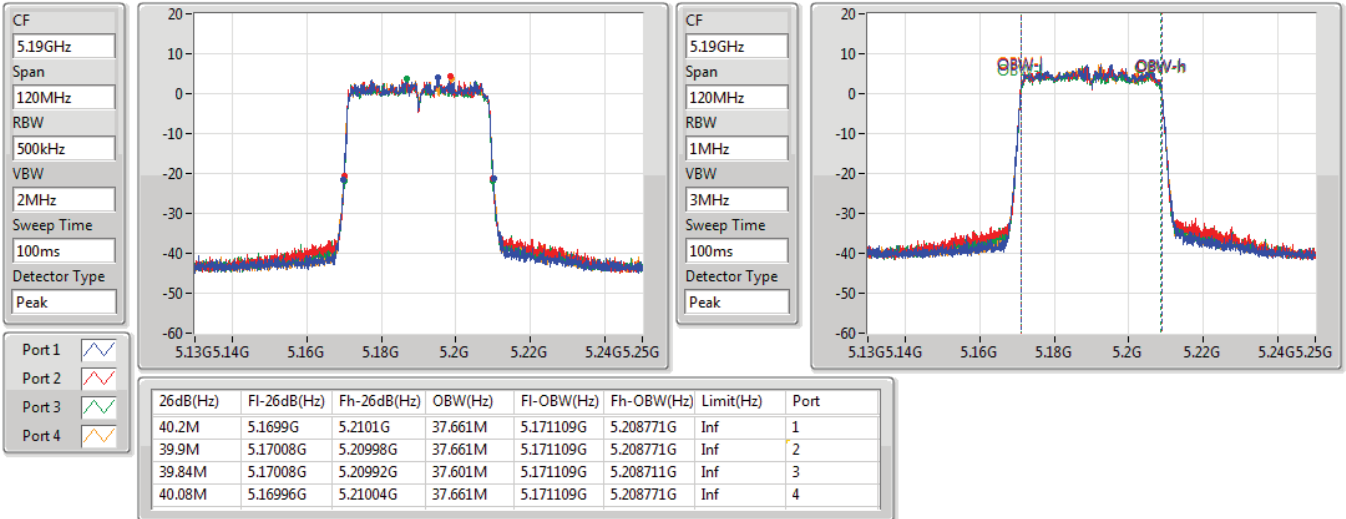

802.11ax HEW20_Nss1,(MCS0)_4TX
EBW
5825MHz

20/12/2021

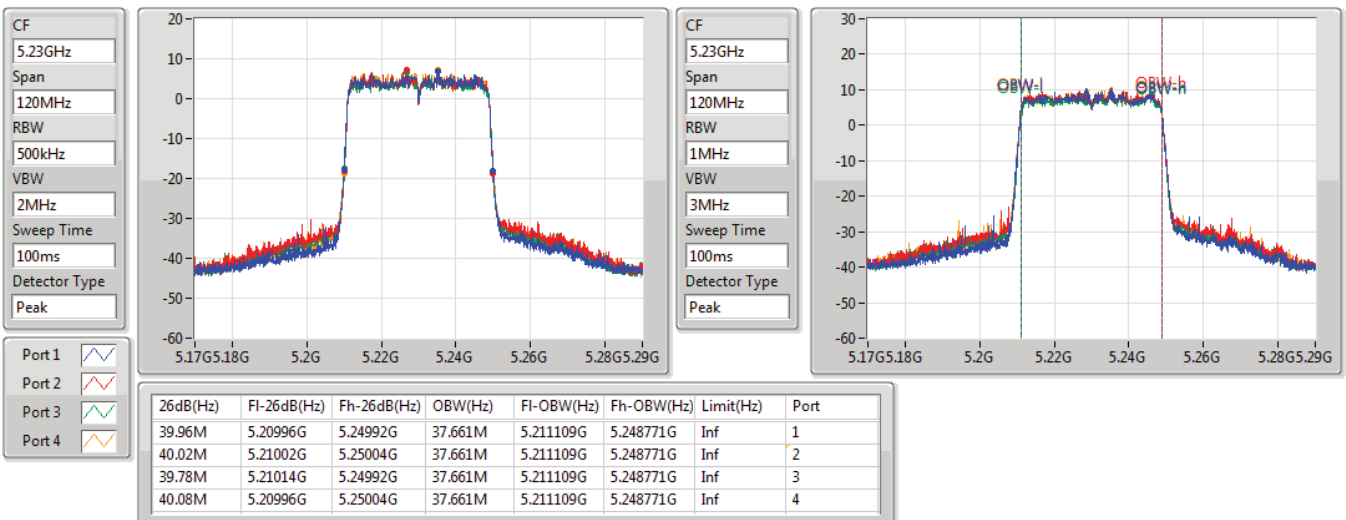


802.11ax HEW40_Nss1,(MCS0)_4TX
EBW
5190MHz

20/12/2021


802.11ax HEW40_Nss1,(MCS0)_4TX
EBW
5230MHz

20/12/2021

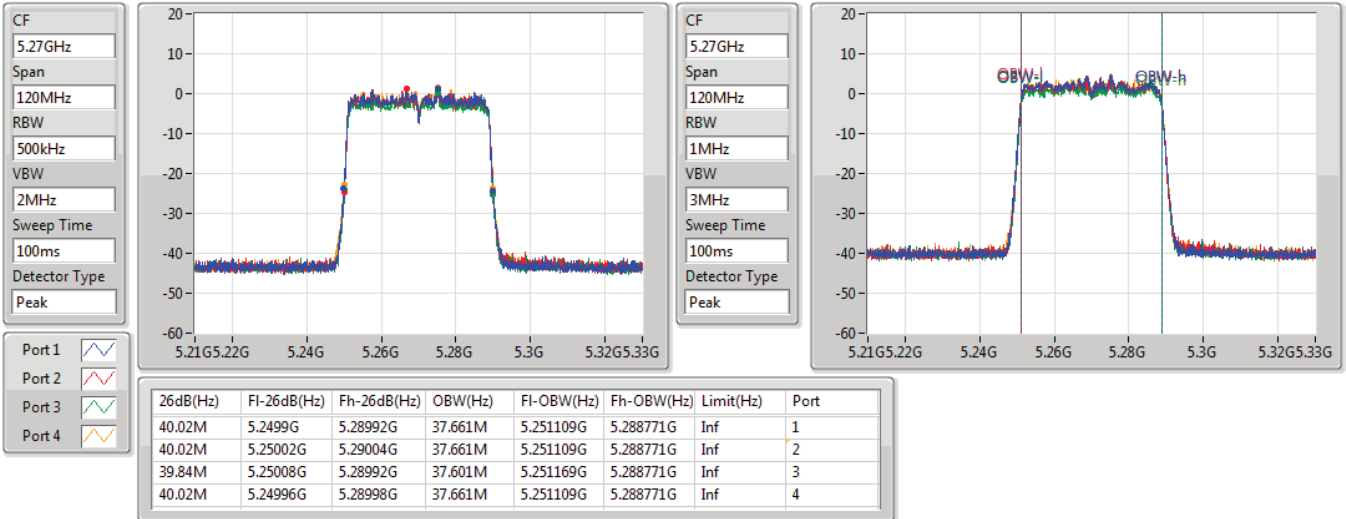


802.11ax HEW40_Nss1,(MCS0)_4TX

EBW

5270MHz

20/12/2021

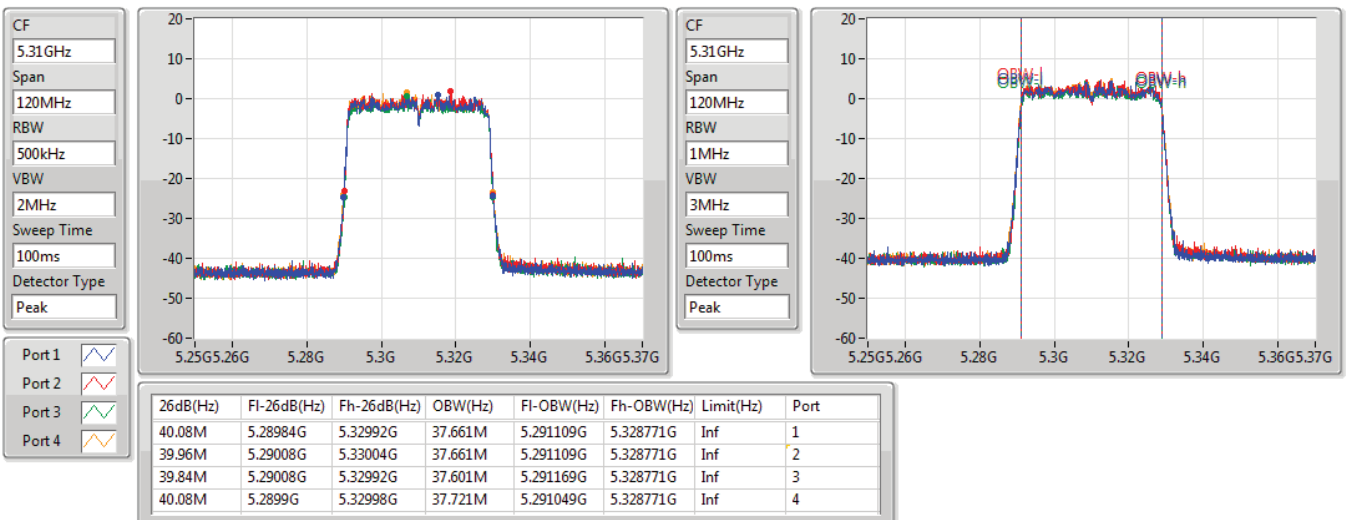


802.11ax HEW40_Nss1,(MCS0)_4TX

EBW

5310MHz

20/12/2021

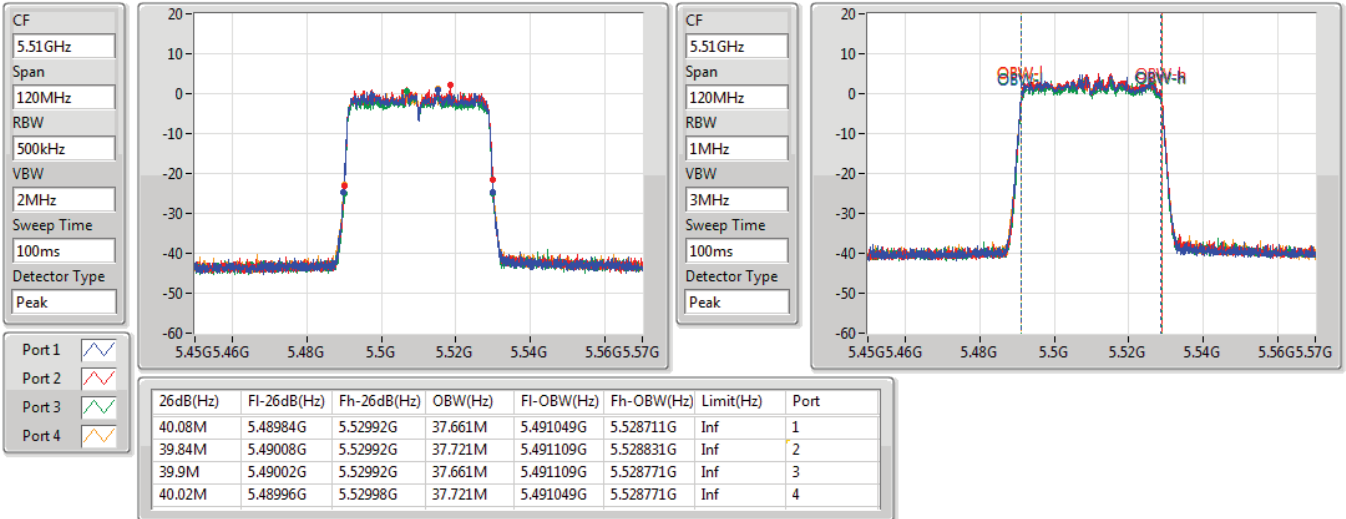


802.11ax HEW40_Nss1,(MCS0)_4TX

EBW

5510MHz

20/12/2021

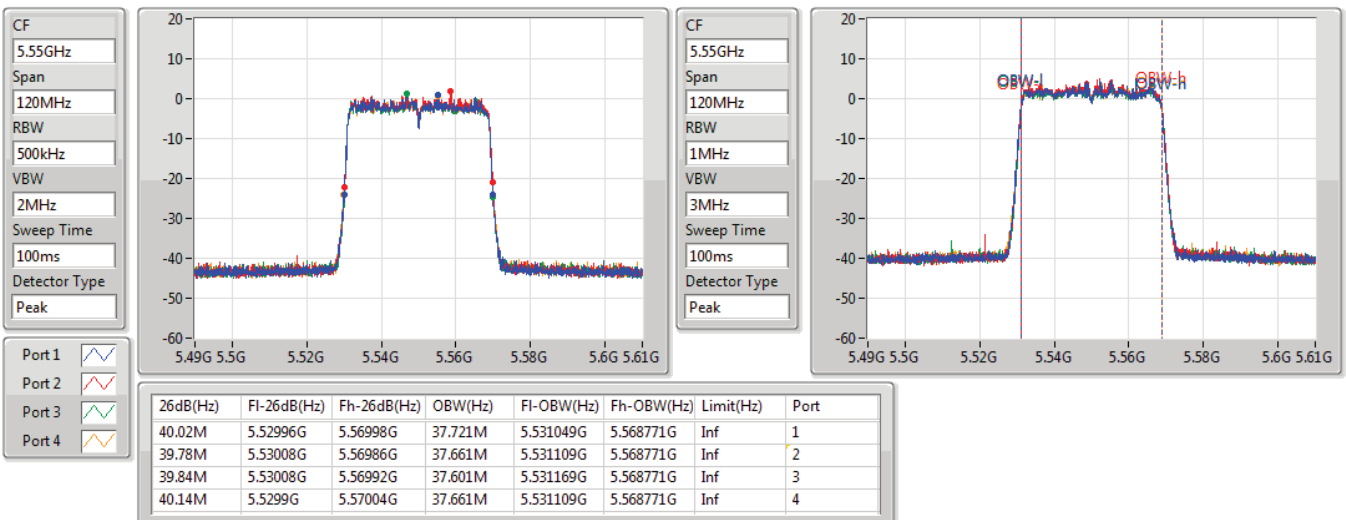


802.11ax HEW40_Nss1,(MCS0)_4TX

EBW

5550MHz

20/12/2021

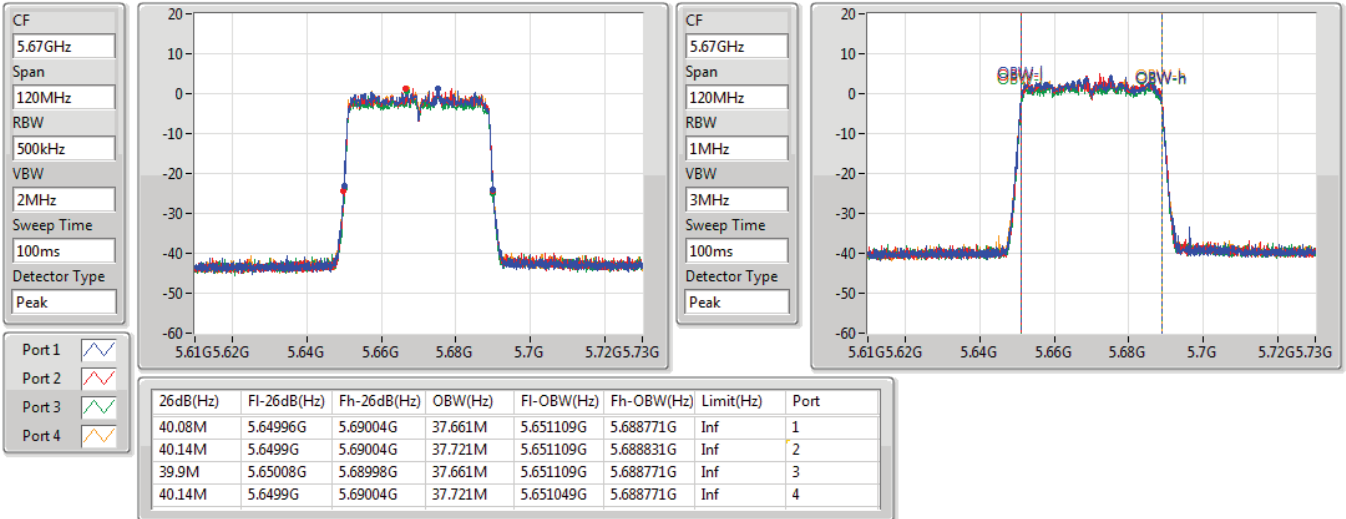


802.11ax HEW40_Nss1,(MCS0)_4TX

EBW

5670MHz

20/12/2021

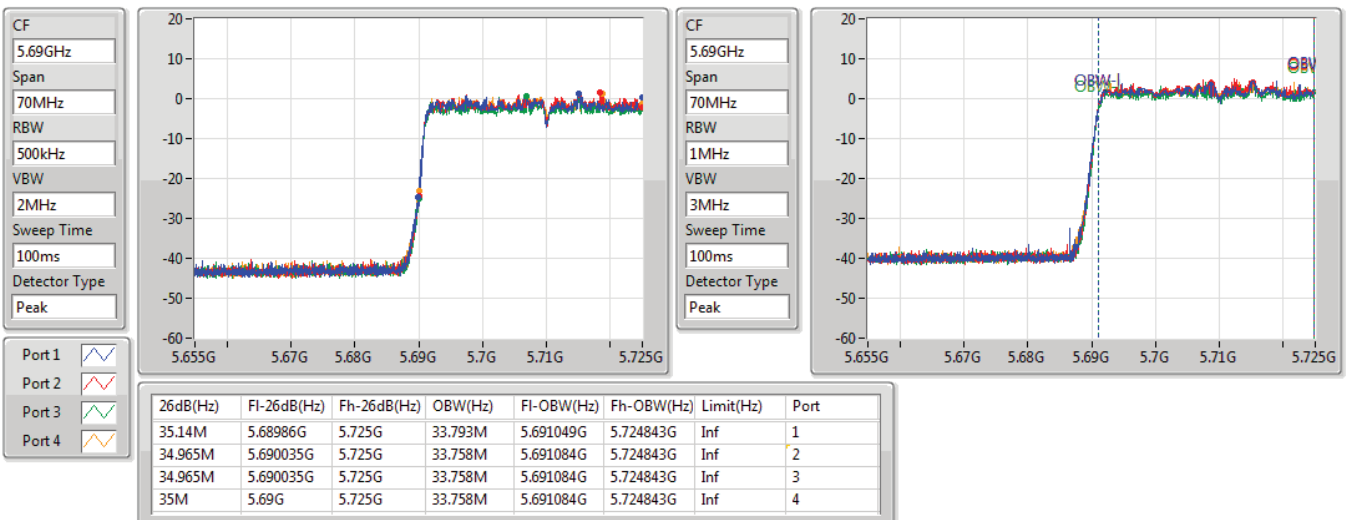


802.11ax HEW40_Nss1,(MCS0)_4TX

EBW

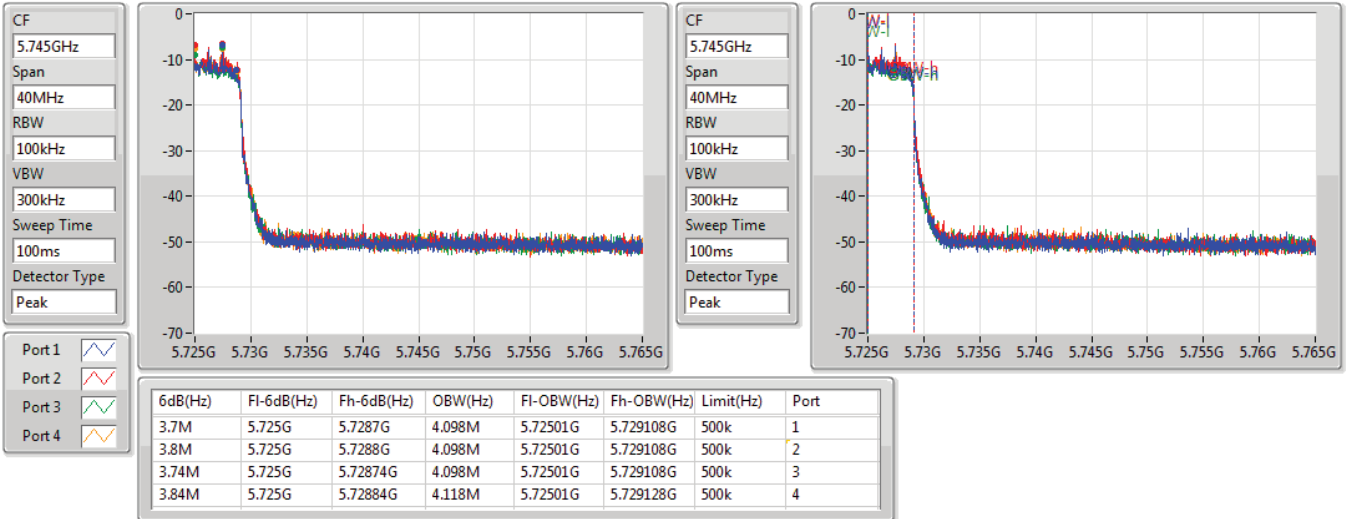
5710MHz Straddle 5.47-5.725GHz

20/12/2021

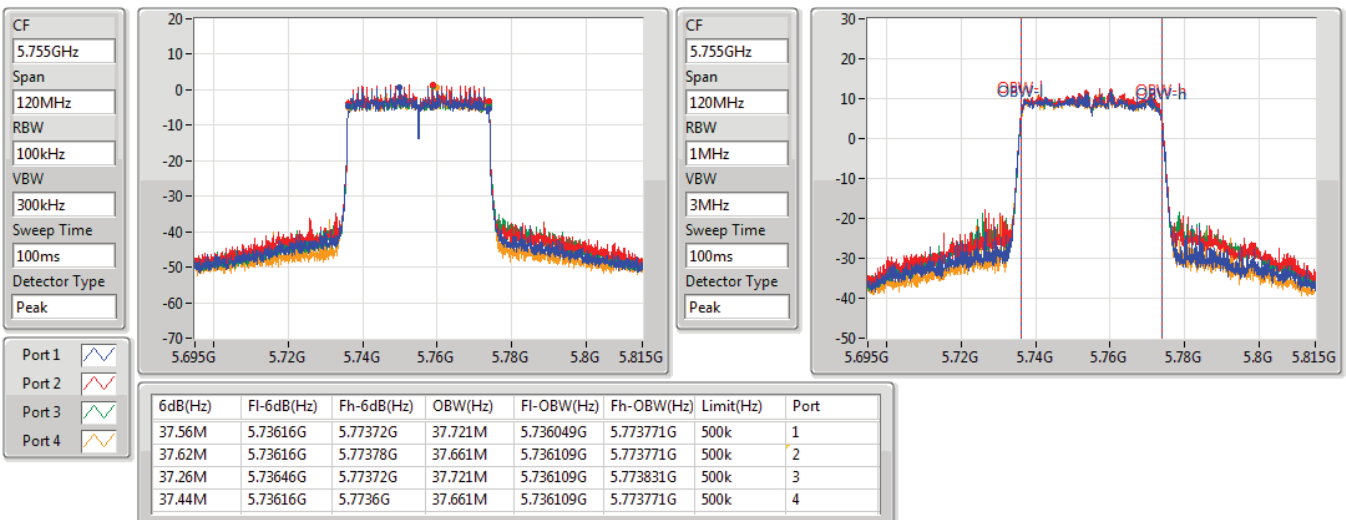


802.11ax HEW40_Nss1,(MCS0)_4TX
EBW
5710MHz Straddle 5.725-5.85GHz

20/12/2021


802.11ax HEW40_Nss1,(MCS0)_4TX
EBW
5755MHz

20/12/2021

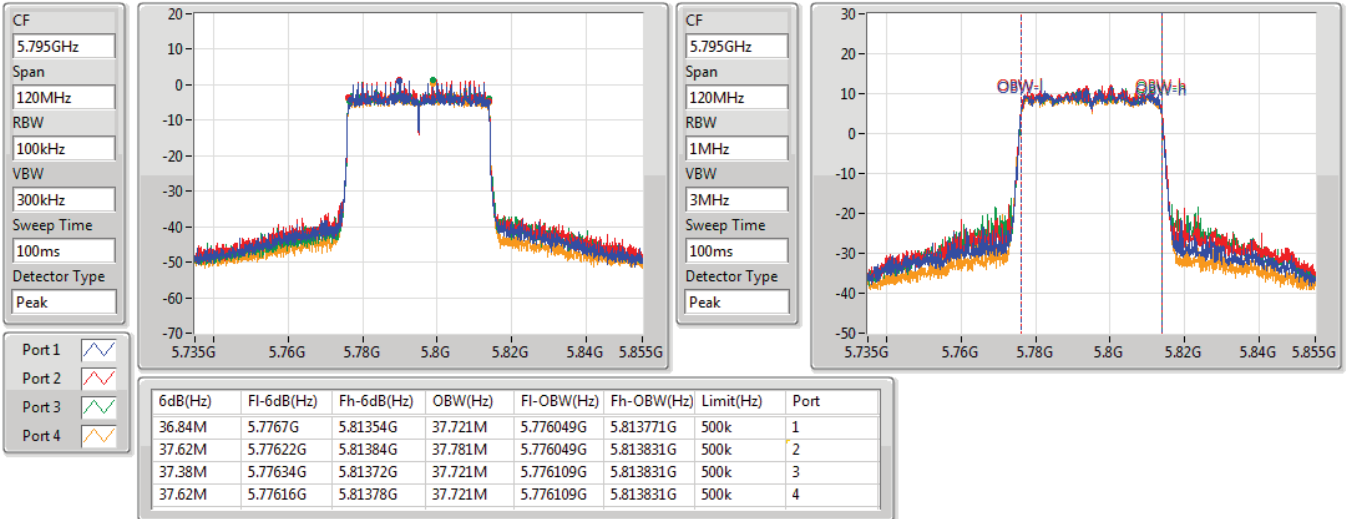


802.11ax HEW40_Nss1,(MCS0)_4TX

EBW

5795MHz

20/12/2021

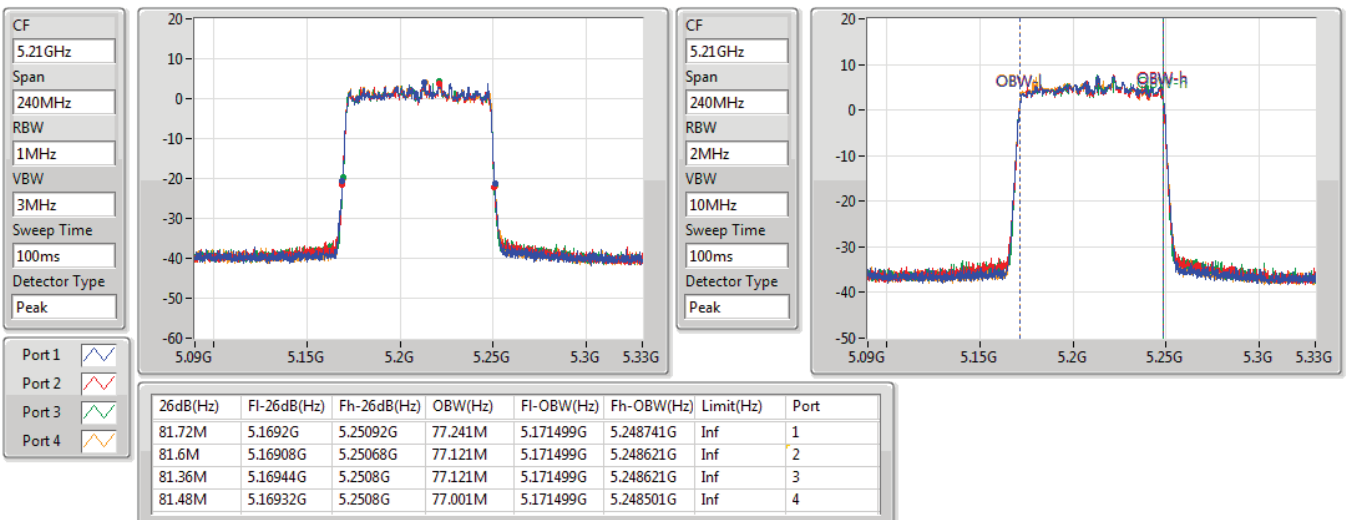


802.11ax HEW80_Nss1,(MCS0)_4TX

EBW

5210MHz

20/12/2021

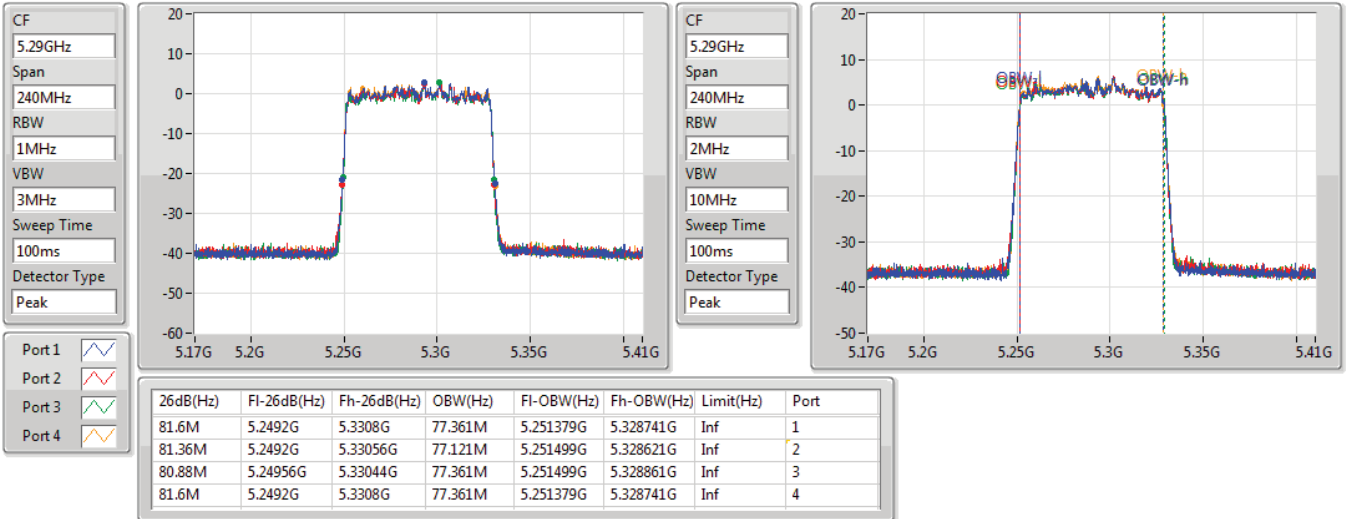


802.11ax HEW80_Nss1,(MCS0)_4TX

EBW

5290MHz

20/12/2021

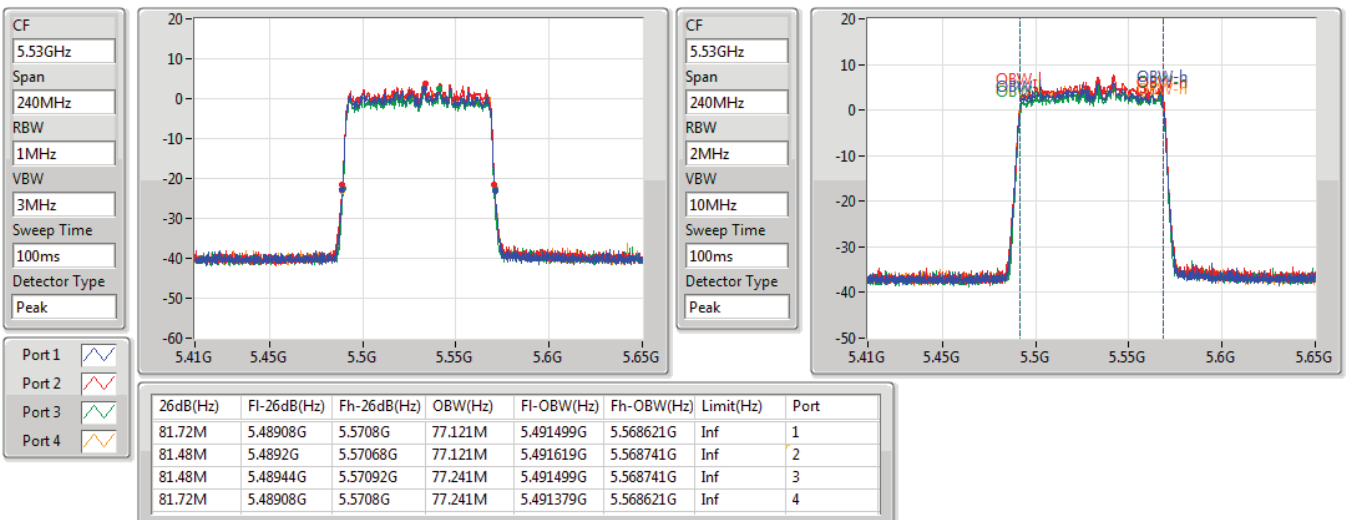


802.11ax HEW80_Nss1,(MCS0)_4TX

EBW

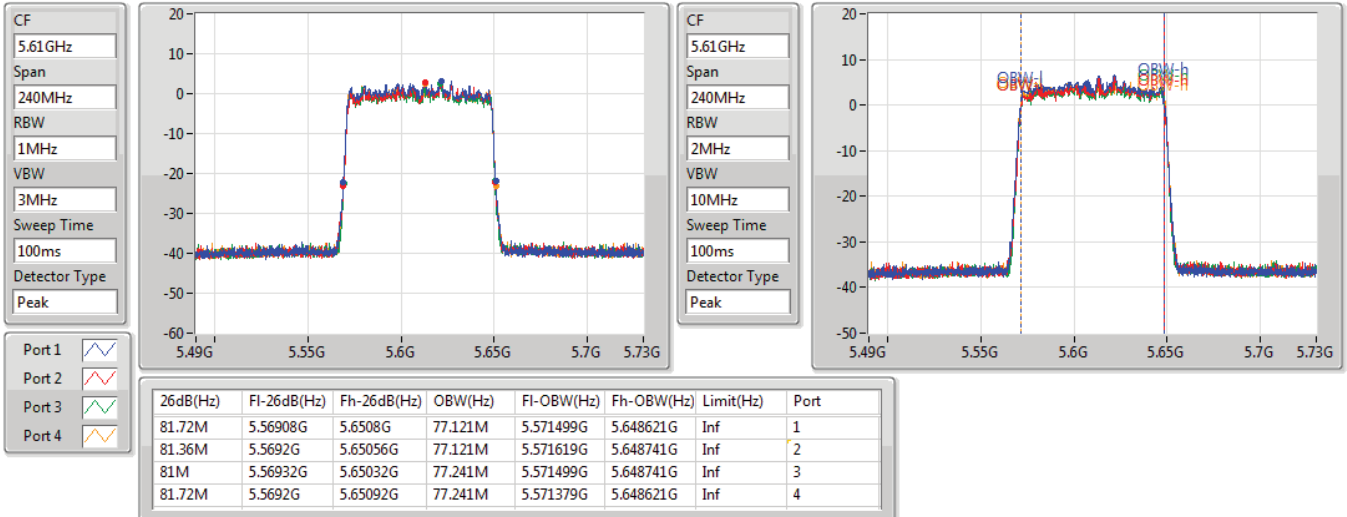
5530MHz

20/12/2021

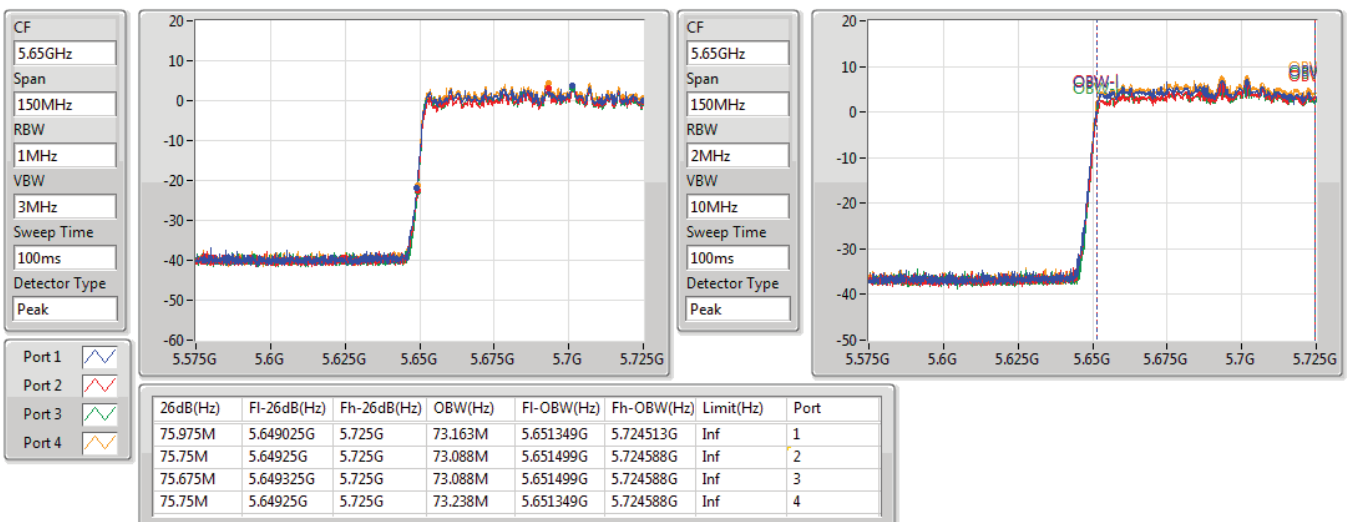


802.11ax HEW80_Nss1,(MCS0)_4TX
EBW
5610MHz

20/12/2021

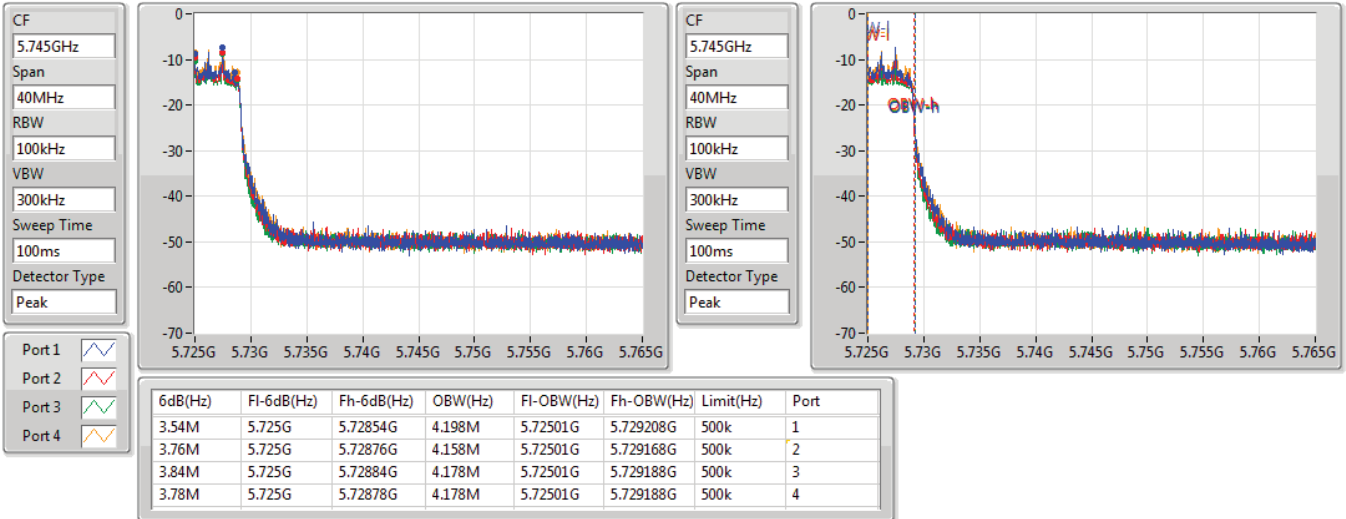

802.11ax HEW80_Nss1,(MCS0)_4TX
EBW
5690MHz Straddle 5.47-5.725GHz

20/12/2021

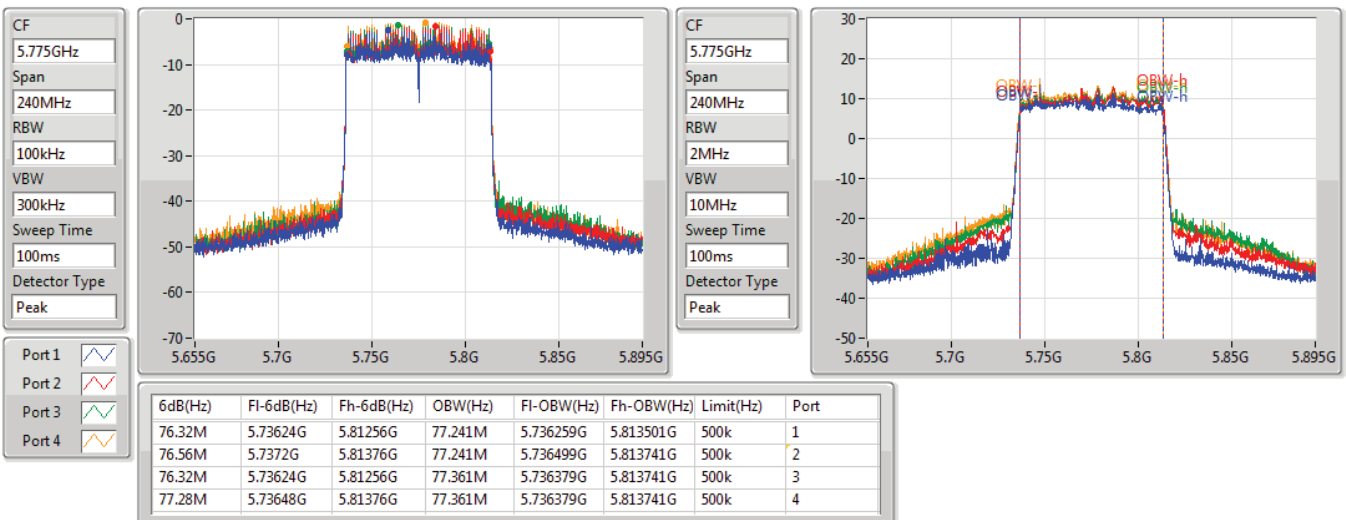


802.11ax HEW80_Nss1,(MCS0)_4TX
EBW
5690MHz Straddle 5.725-5.85GHz

20/12/2021

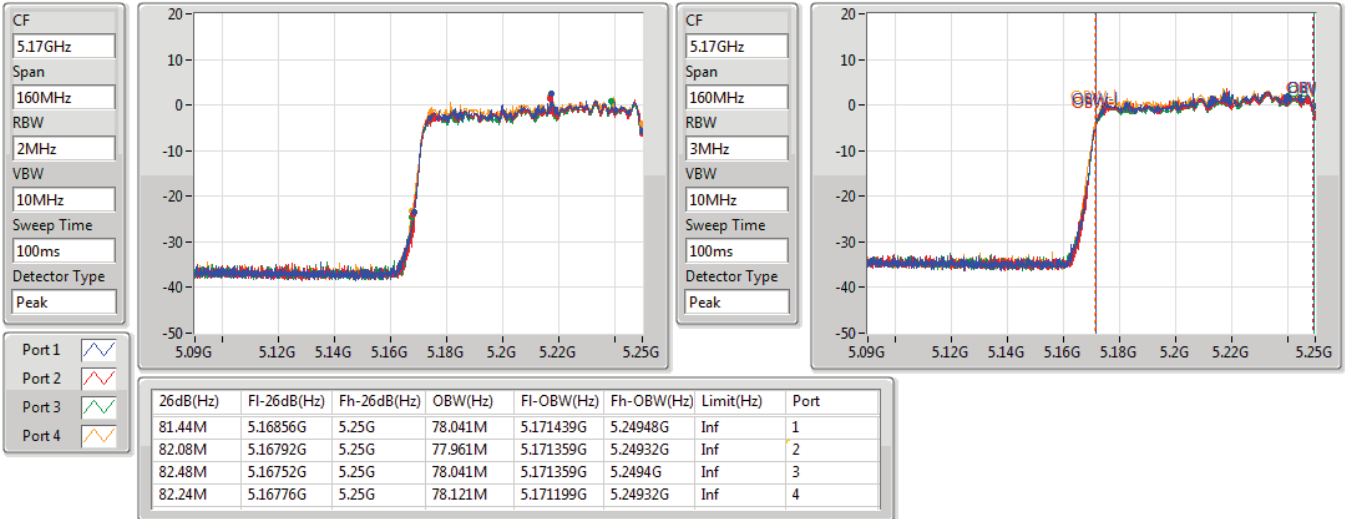

802.11ax HEW80_Nss1,(MCS0)_4TX
EBW
5775MHz

20/12/2021

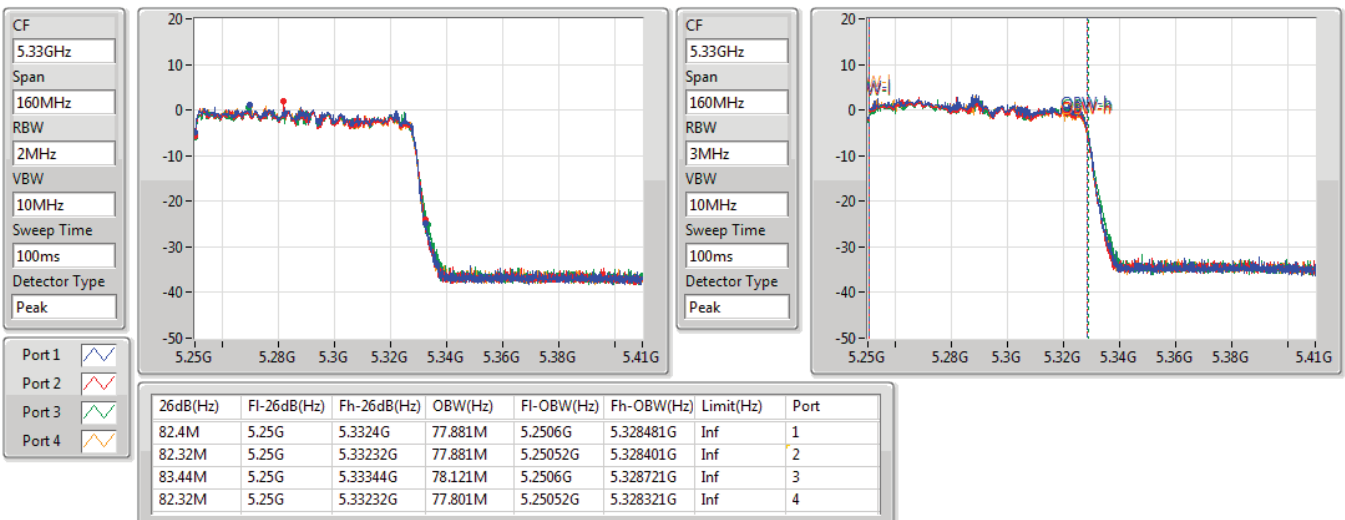


802.11ax HEW160_Nss1,(MCS0)_4TX
EBW
5250MHz Straddle 5.15-5.25GHz

20/12/2021


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

20/12/2021

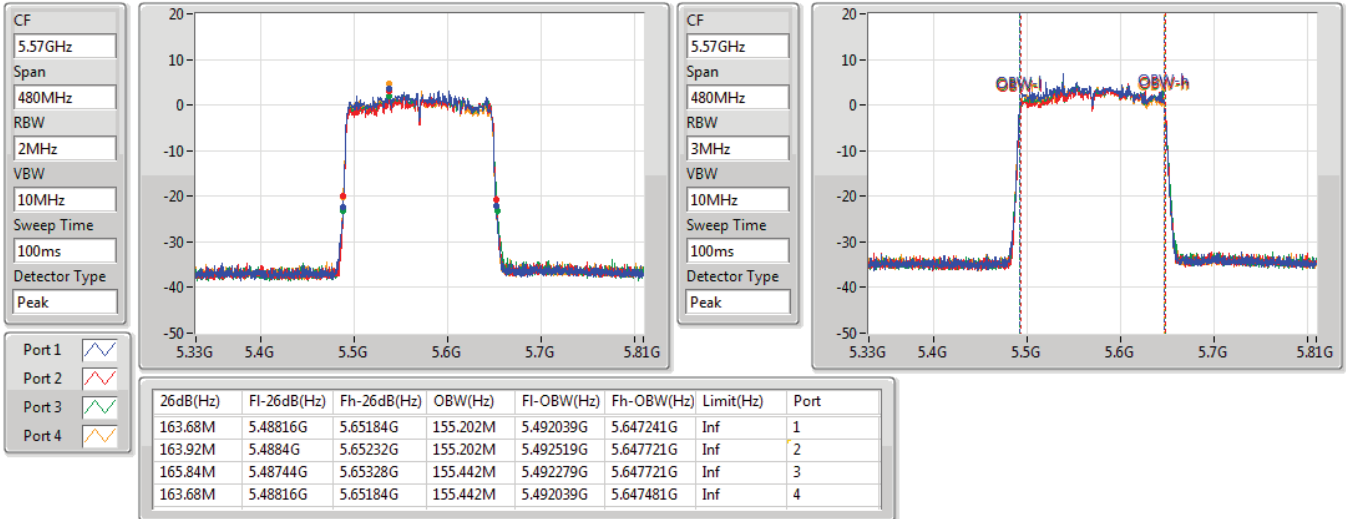


802.11ax HEW160_Nss1,(MCS0)_4TX

EBW

5570MHz

20/12/2021



**Summary**

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.47-5.725GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	21.72M	17.151M	17M2D1D	15.555M	13.508M
802.11ax HEW20_Nss1,(MCS0)_4TX	21.78M	19.22M	19M2D1D	15.69M	14.543M
802.11ax HEW40_Nss1,(MCS0)_4TX	40.2M	37.721M	37M7D1D	34.93M	33.653M
802.11ax HEW80_Nss1,(MCS0)_4TX	82.32M	77.601M	77M6D1D	75.825M	73.463M
802.11ax HEW160_Nss1,(MCS0)_4TX	164.88M	155.442M	155MD1D	164.4M	154.963M
5.725-5.85GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	16.56M	17.211M	17M2D1D	3.12M	4.258M
802.11ax HEW20_Nss1,(MCS0)_4TX	19.02M	19.22M	19M2D1D	4.4M	4.618M
802.11ax HEW40_Nss1,(MCS0)_4TX	37.56M	37.781M	37M8D1D	3.68M	4.058M
802.11ax HEW80_Nss1,(MCS0)_4TX	76.8M	77.721M	77M7D1D	3.18M	4.118M

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



Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)	Port 3-N dB (Hz)	Port 3-OBW (Hz)	Port 4-N dB (Hz)	Port 4-OBW (Hz)
802.11a_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-	-	-
5500MHz	Pass	Inf	21.6M	16.912M	21.51M	17.091M	21.66M	17.151M	21.48M	17.031M
5580MHz	Pass	Inf	21.51M	16.942M	21.63M	17.031M	21.6M	17.151M	21.45M	17.031M
5700MHz	Pass	Inf	21.54M	16.912M	21.54M	17.061M	21.72M	17.121M	21.54M	17.001M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	15.615M	13.508M	15.795M	13.628M	15.72M	13.598M	15.555M	13.538M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	3.12M	4.258M	3.12M	4.318M	3.22M	4.478M	3.12M	4.378M
5745MHz	Pass	500k	16.35M	16.912M	16.41M	17.091M	16.56M	17.181M	16.32M	17.091M
5785MHz	Pass	500k	16.35M	16.972M	16.38M	17.121M	16.35M	17.211M	16.35M	17.121M
5825MHz	Pass	500k	16.35M	17.001M	16.38M	17.121M	16.32M	17.181M	16.35M	17.151M
802.11ax HEW20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5500MHz	Pass	Inf	21.72M	19.22M	21.69M	19.13M	21.45M	19.13M	21.66M	19.07M
5580MHz	Pass	Inf	21.78M	19.19M	21.69M	19.16M	21.66M	19.13M	21.63M	19.07M
5700MHz	Pass	Inf	21.75M	19.16M	21.75M	19.13M	21.6M	19.13M	21.69M	19.04M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	15.735M	14.543M	15.72M	14.573M	15.69M	14.543M	15.81M	14.543M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	4.52M	4.758M	4.42M	4.698M	4.46M	4.698M	4.4M	4.618M
5745MHz	Pass	500k	18.99M	19.22M	18.72M	19.19M	18.99M	19.16M	18.96M	19.1M
5785MHz	Pass	500k	18.93M	19.22M	18.96M	19.16M	18.9M	19.13M	19.02M	19.1M
5825MHz	Pass	500k	18.93M	19.22M	18.9M	19.19M	18.81M	19.16M	18.93M	19.1M
802.11ax HEW40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5510MHz	Pass	Inf	40.14M	37.721M	39.9M	37.661M	39.9M	37.601M	40.14M	37.661M
5550MHz	Pass	Inf	40.2M	37.661M	40.14M	37.661M	39.9M	37.601M	40.14M	37.661M
5670MHz	Pass	Inf	40.14M	37.661M	40.2M	37.721M	39.9M	37.601M	40.14M	37.661M
5710MHz Straddle 5.47-5.725GHz	Pass	Inf	35.07M	33.688M	35.175M	33.758M	34.93M	33.653M	35.07M	33.723M
5710MHz Straddle 5.725-5.85GHz	Pass	500k	3.68M	4.078M	3.76M	4.058M	3.74M	4.078M	3.76M	4.058M
5755MHz	Pass	500k	37.5M	37.721M	37.2M	37.721M	36.66M	37.721M	37.5M	37.721M
5795MHz	Pass	500k	37.56M	37.781M	37.26M	37.781M	37.44M	37.781M	37.5M	37.781M
802.11ax HEW80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5530MHz	Pass	Inf	81.6M	77.481M	81.84M	77.601M	82.08M	77.481M	82.32M	77.481M
5610MHz	Pass	Inf	81.72M	77.361M	81.96M	77.481M	81.96M	77.481M	81.96M	77.601M
5690MHz Straddle 5.47-5.725GHz	Pass	Inf	75.825M	73.613M	76.125M	73.463M	75.9M	73.463M	75.9M	73.538M
5690MHz Straddle 5.725-5.85GHz	Pass	500k	3.18M	4.158M	3.72M	4.118M	3.46M	4.198M	3.78M	4.398M
5775MHz	Pass	500k	74.28M	77.601M	76.8M	77.601M	76.8M	77.721M	75.84M	77.721M
802.11ax HEW160_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5570MHz	Pass	Inf	164.64M	154.963M	164.88M	155.202M	164.4M	155.202M	164.64M	155.442M

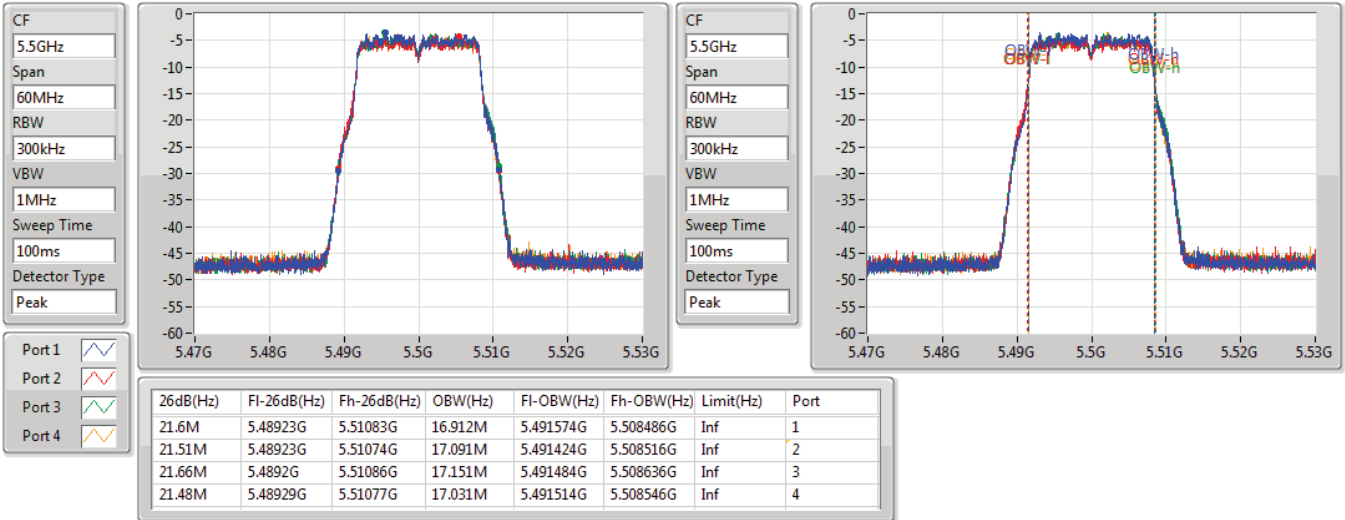
Port X-N dB = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band
Port X-OBW = Port X 99% occupied bandwidth

802.11a_Nss1,(6Mbps)_4TX

EBW

5500MHz

23/12/2021

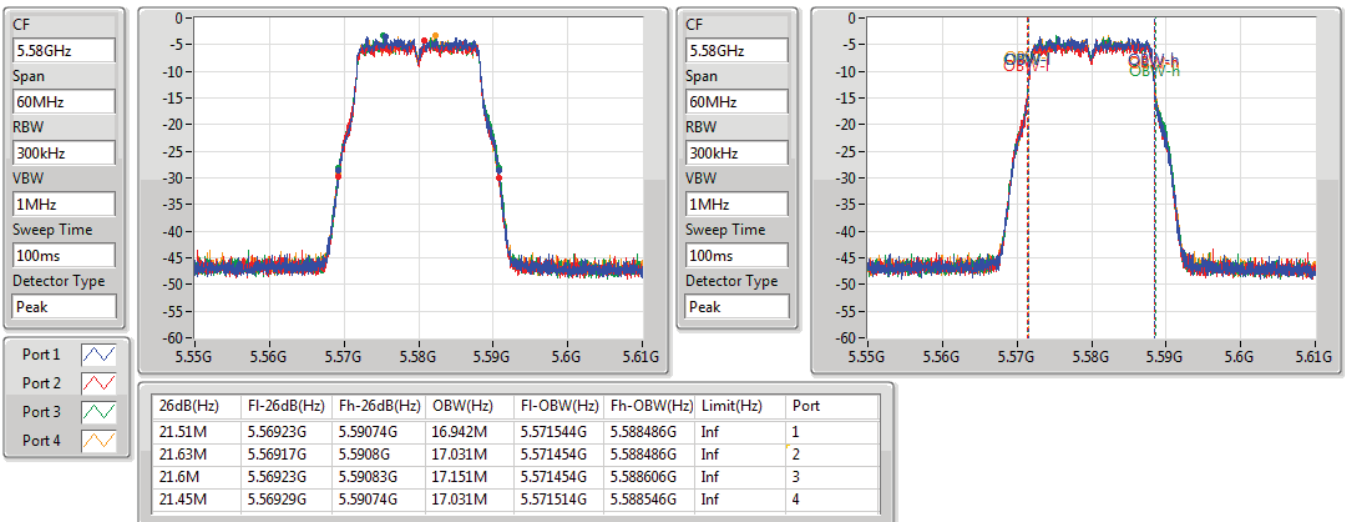


802.11a_Nss1,(6Mbps)_4TX

EBW

5580MHz

23/12/2021

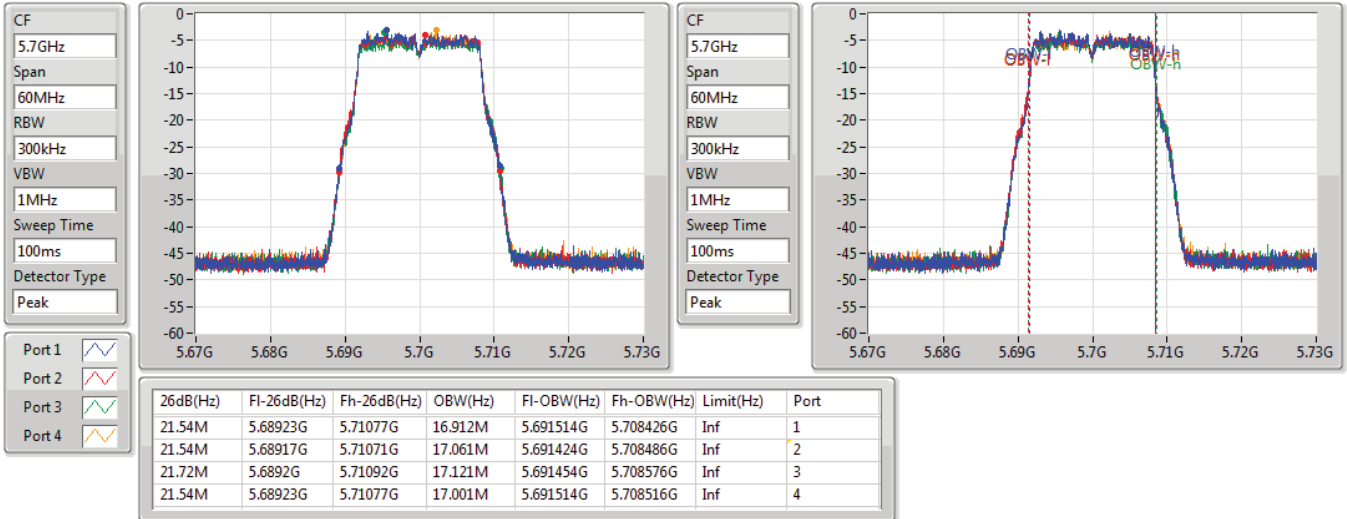


802.11a_Nss1,(6Mbps)_4TX

EBW

5700MHz

23/12/2021

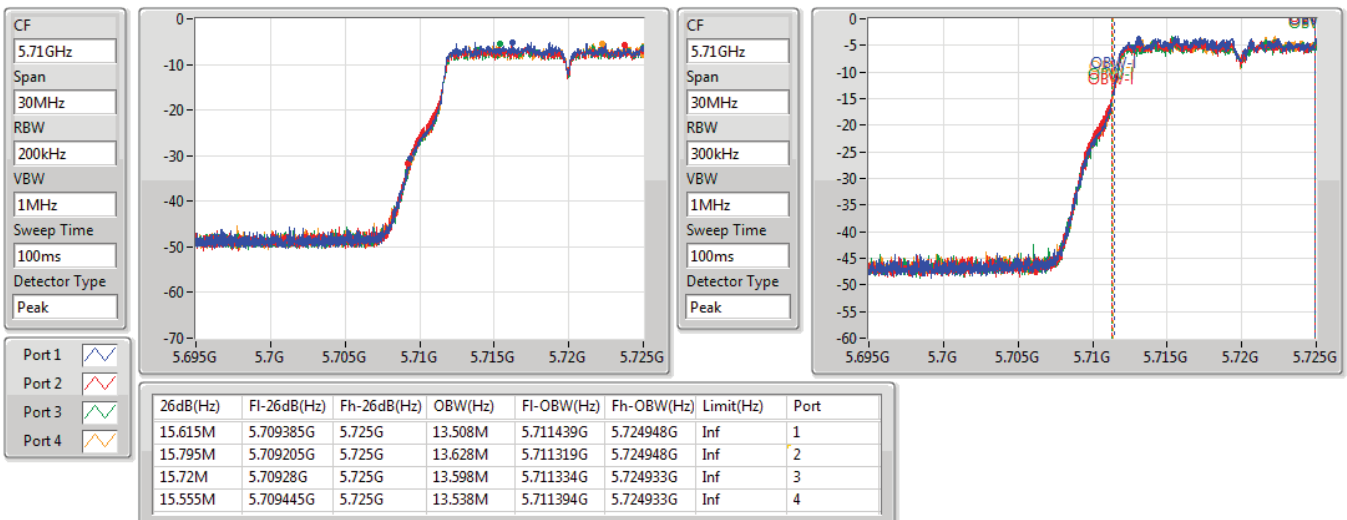


802.11a_Nss1,(6Mbps)_4TX

EBW

5720MHz Straddle 5.47-5.725GHz

23/12/2021

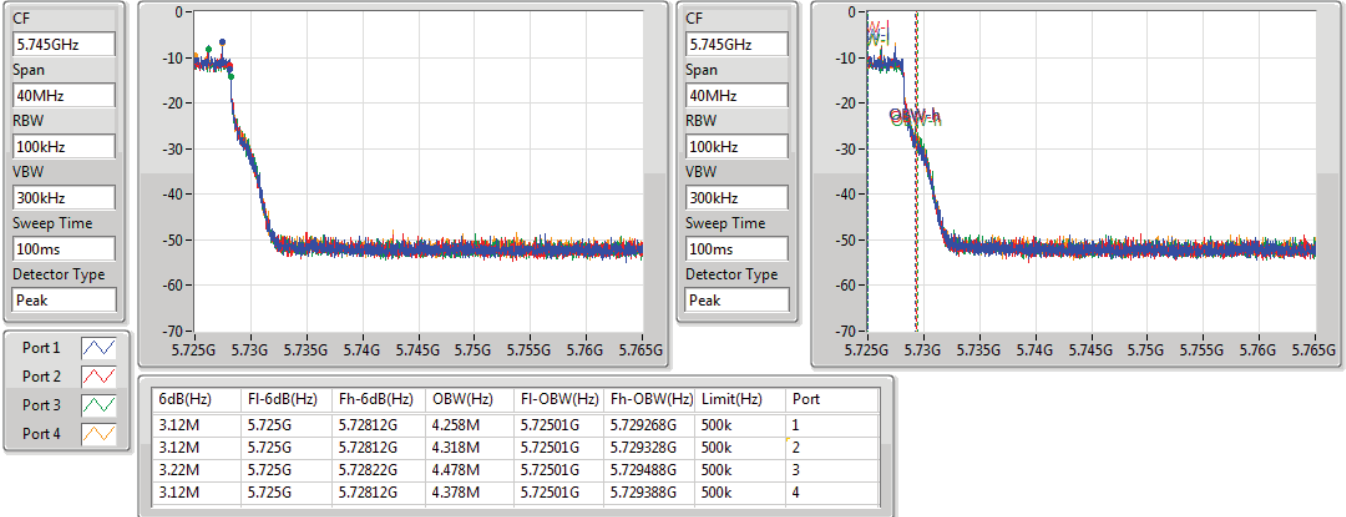


802.11a_Nss1,(6Mbps)_4TX

EBW

5720MHz Straddle 5.725-5.85GHz

23/12/2021

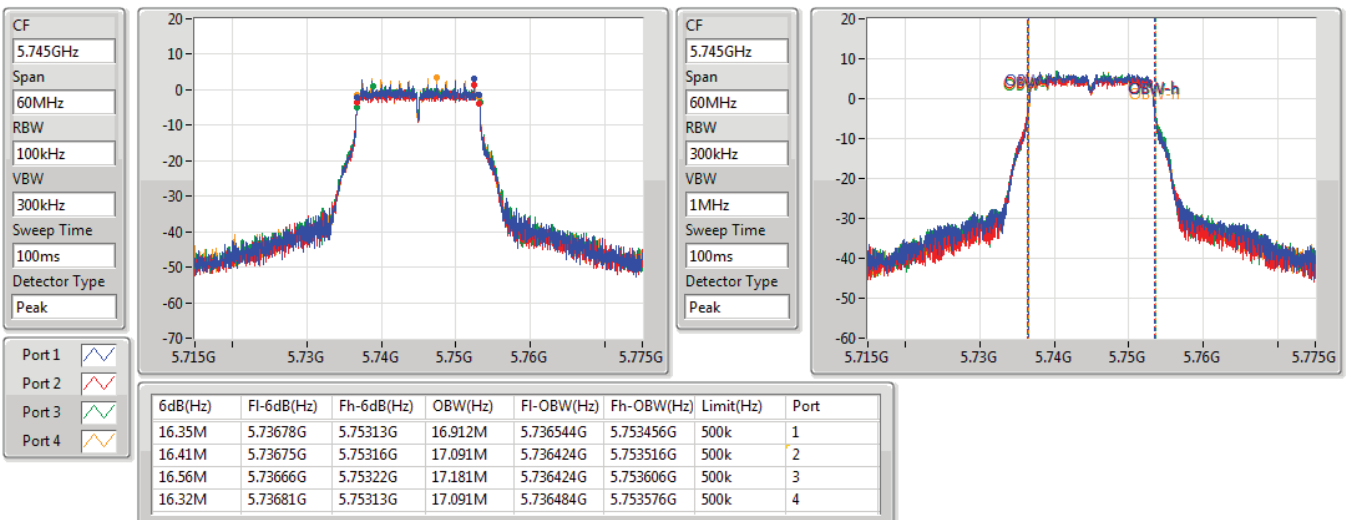


802.11a_Nss1,(6Mbps)_4TX

EBW

5745MHz

23/12/2021

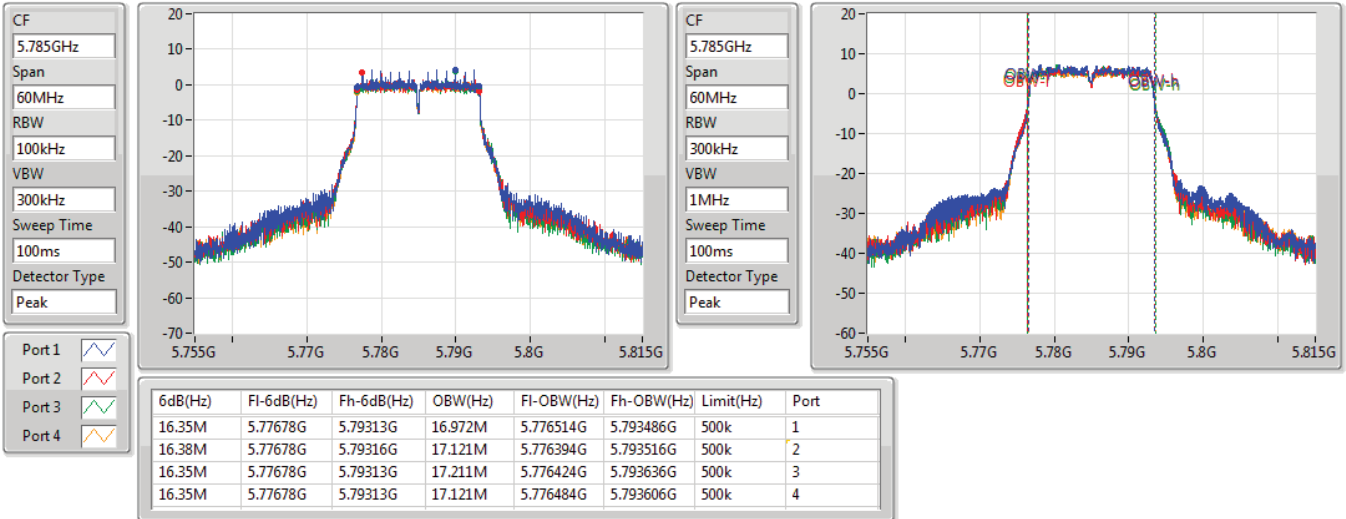


802.11a_Nss1,(6Mbps)_4TX

EBW

5785MHz

23/12/2021

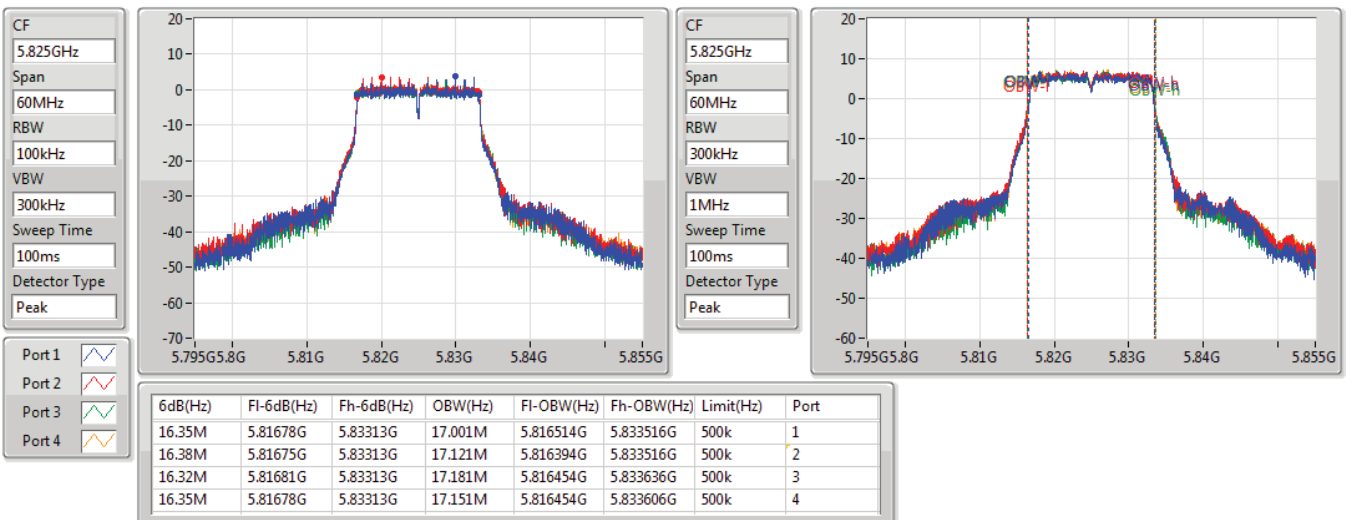


802.11a_Nss1,(6Mbps)_4TX

EBW

5825MHz

23/12/2021

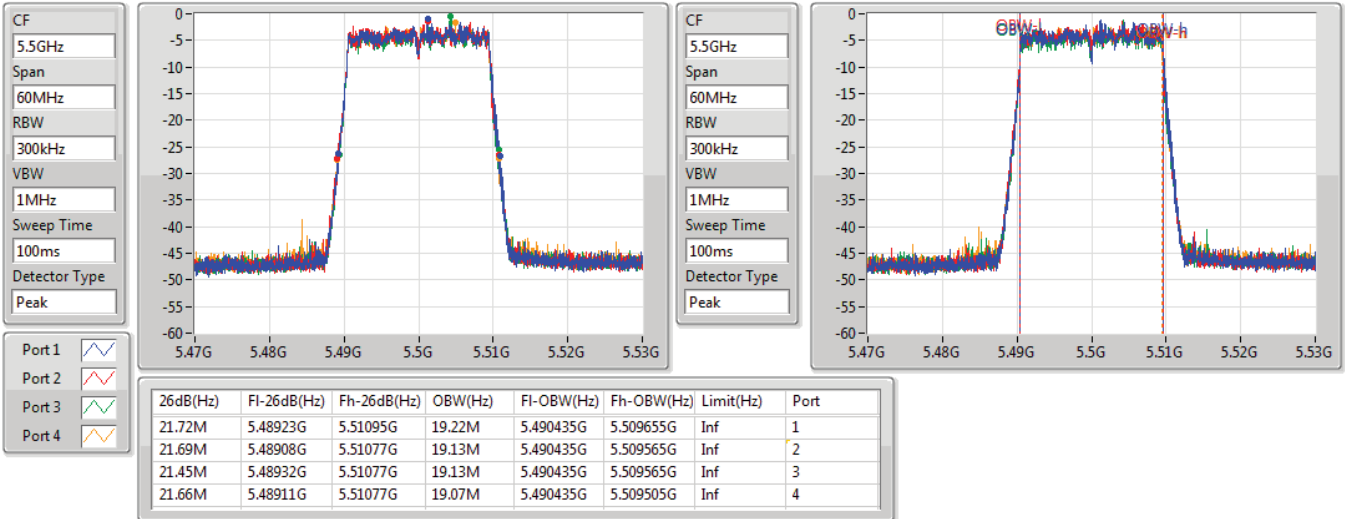


802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

5500MHz

23/12/2021

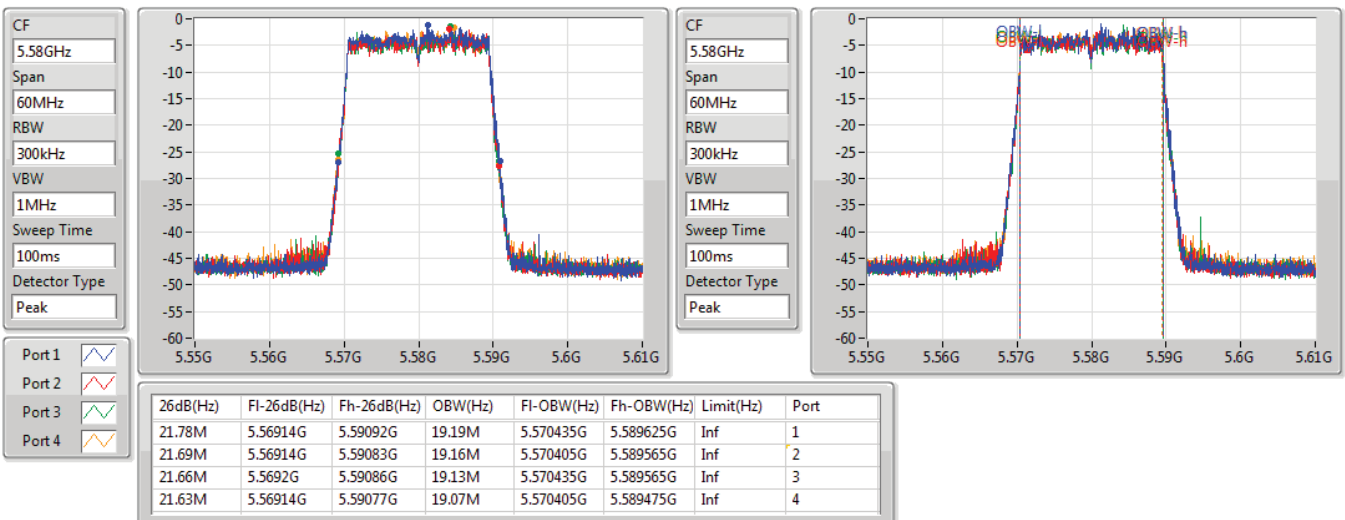


802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

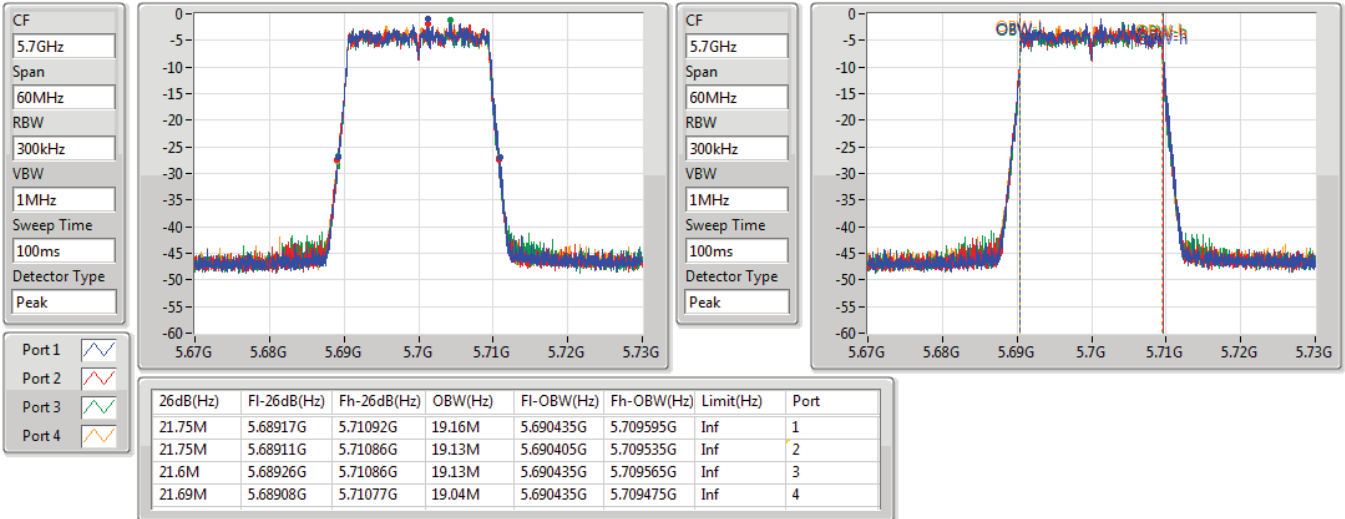
5580MHz

23/12/2021

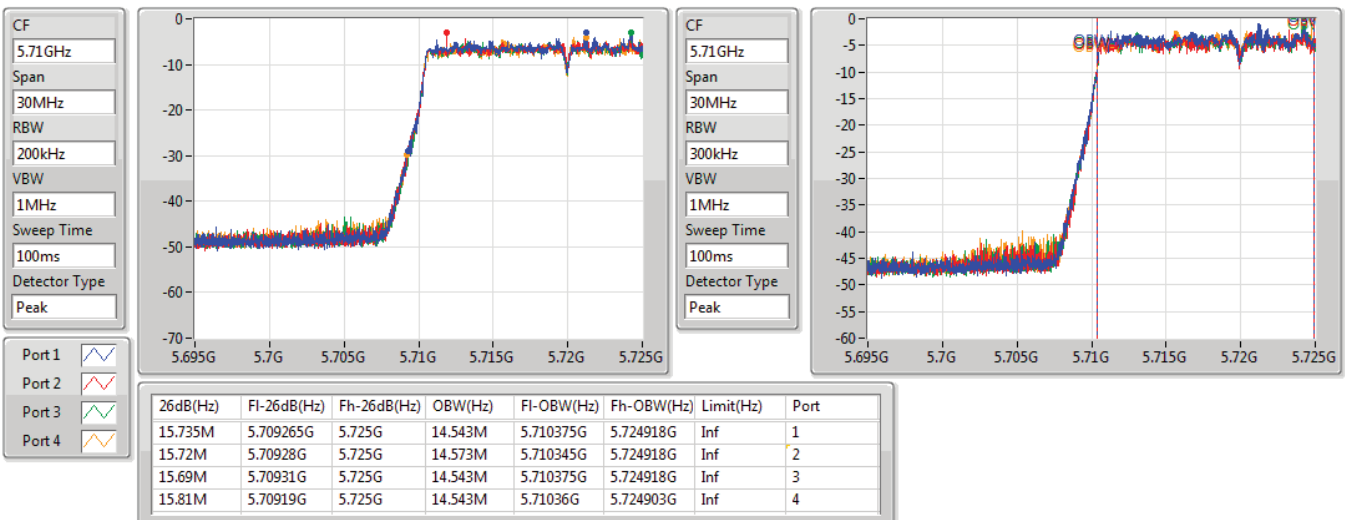


802.11ax HEW20_Nss1,(MCS0)_4TX
EBW
5700MHz

23/12/2021


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

23/12/2021

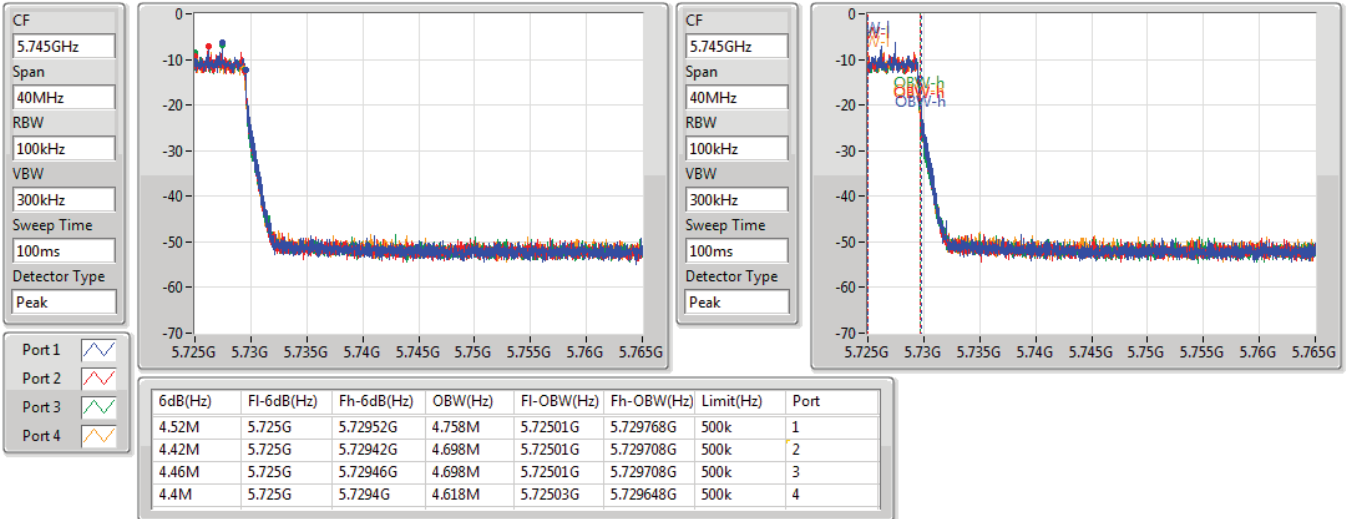


802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

5720MHz Straddle 5.725-5.85GHz

23/12/2021

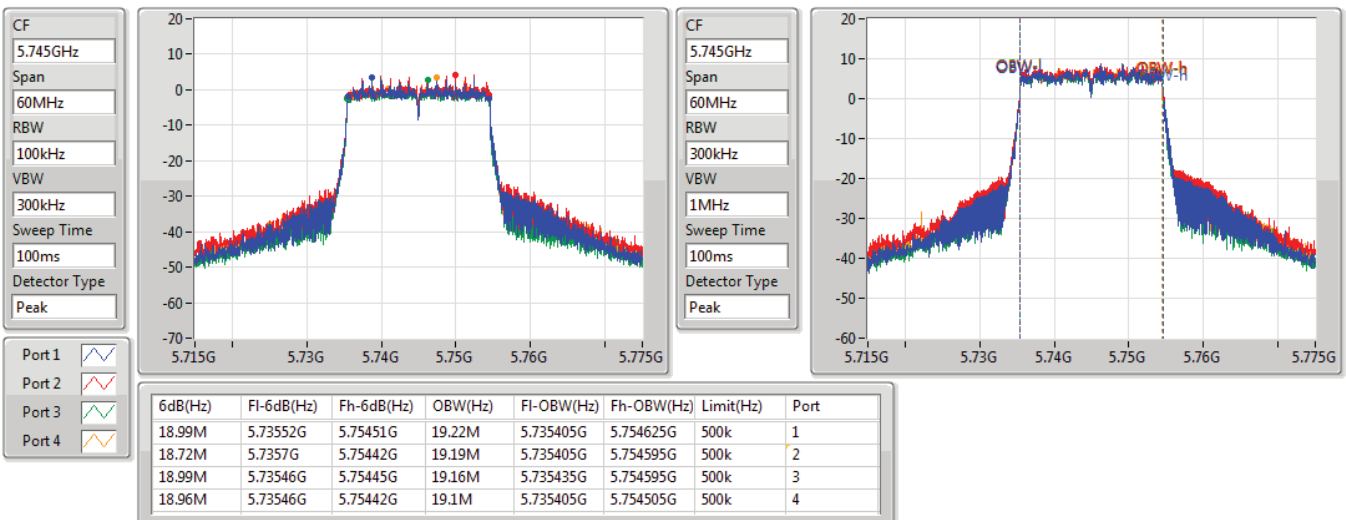


802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

5745MHz

23/12/2021

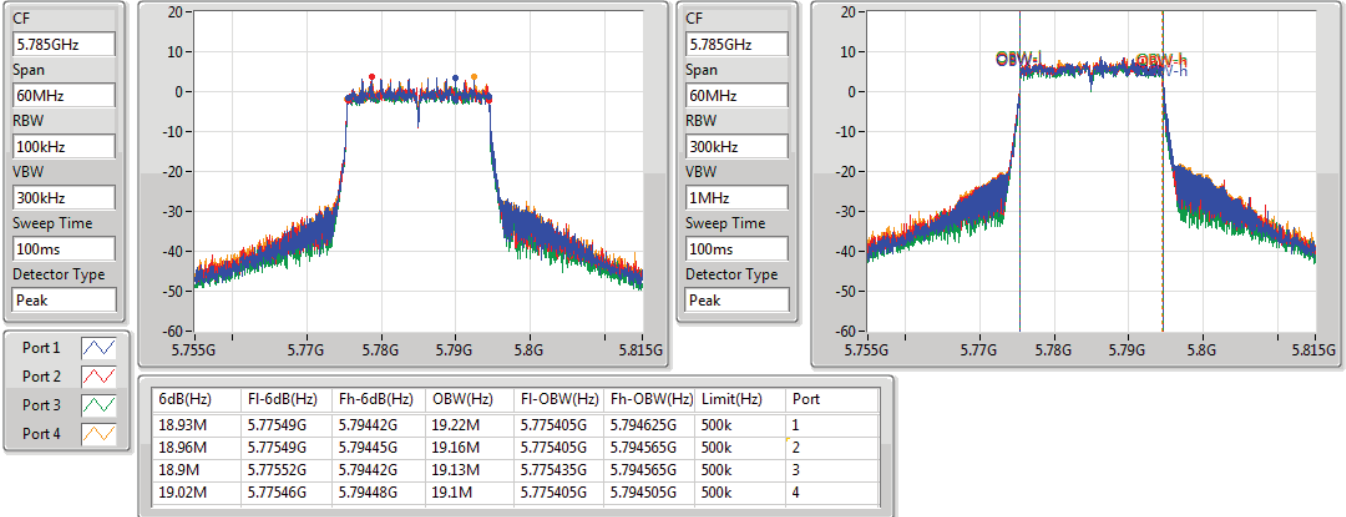


802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

5785MHz

23/12/2021

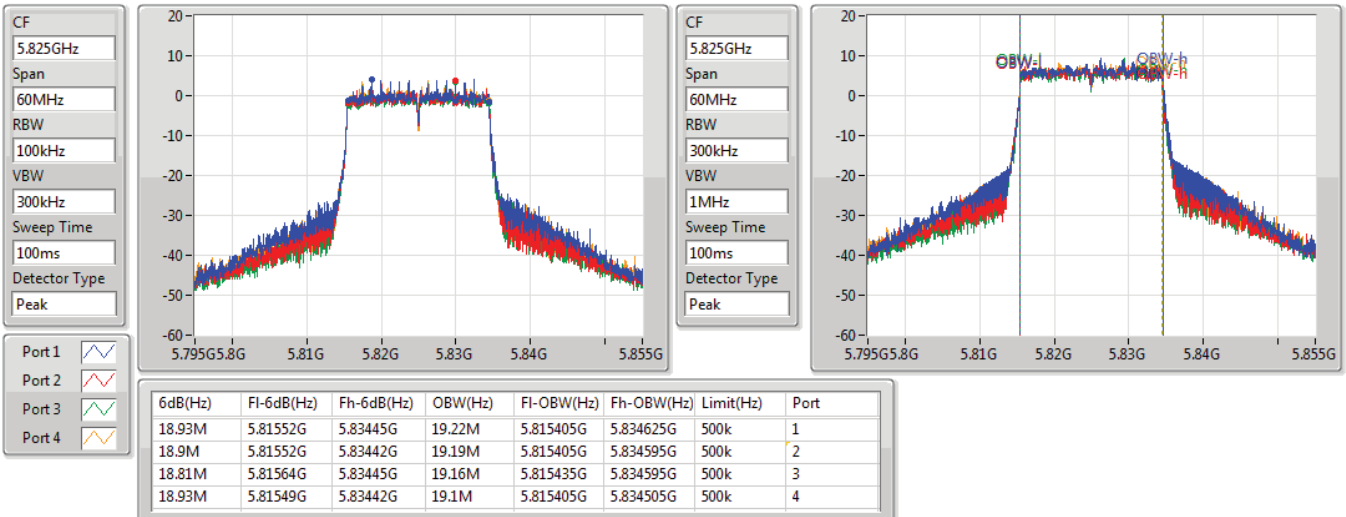


802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

5825MHz

23/12/2021

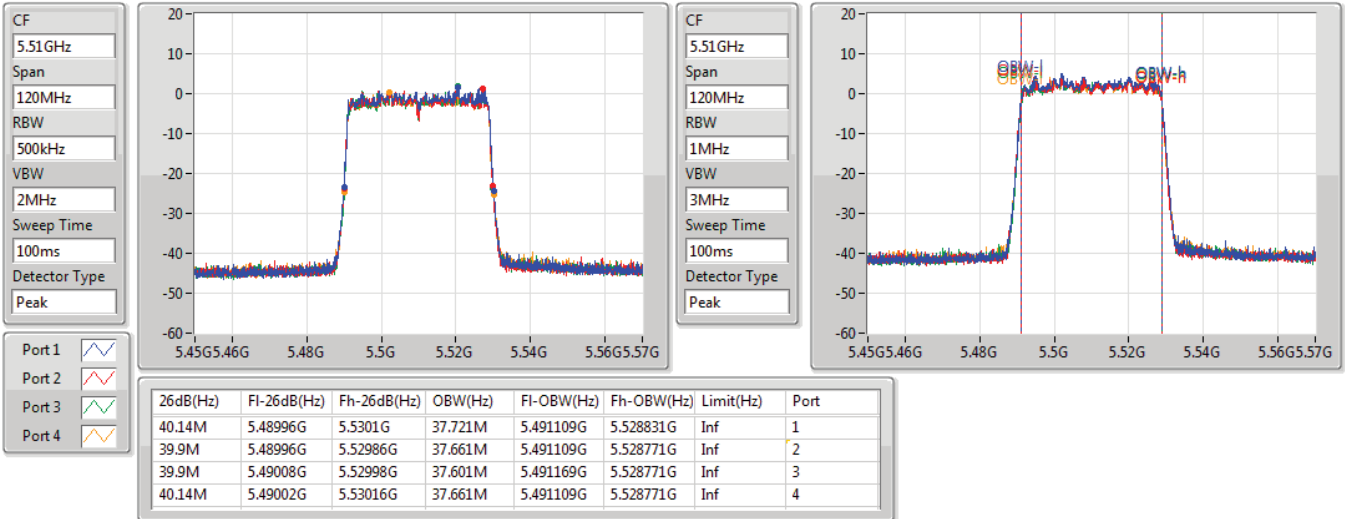


802.11ax HEW40_Nss1,(MCS0)_4TX

EBW

5510MHz

23/12/2021

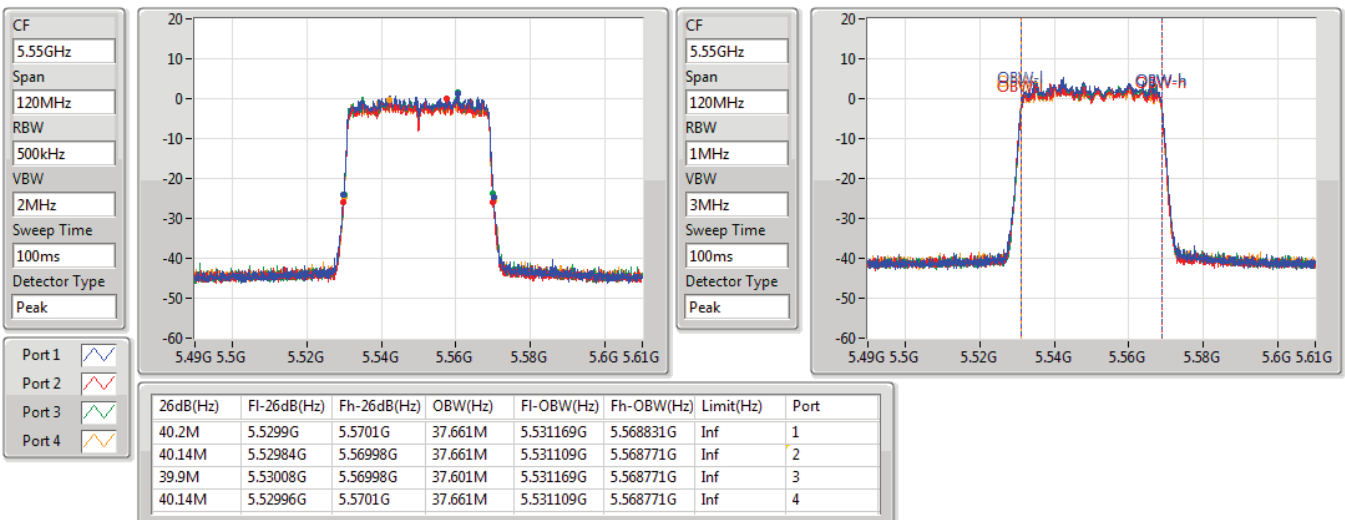


802.11ax HEW40_Nss1,(MCS0)_4TX

EBW

5550MHz

23/12/2021

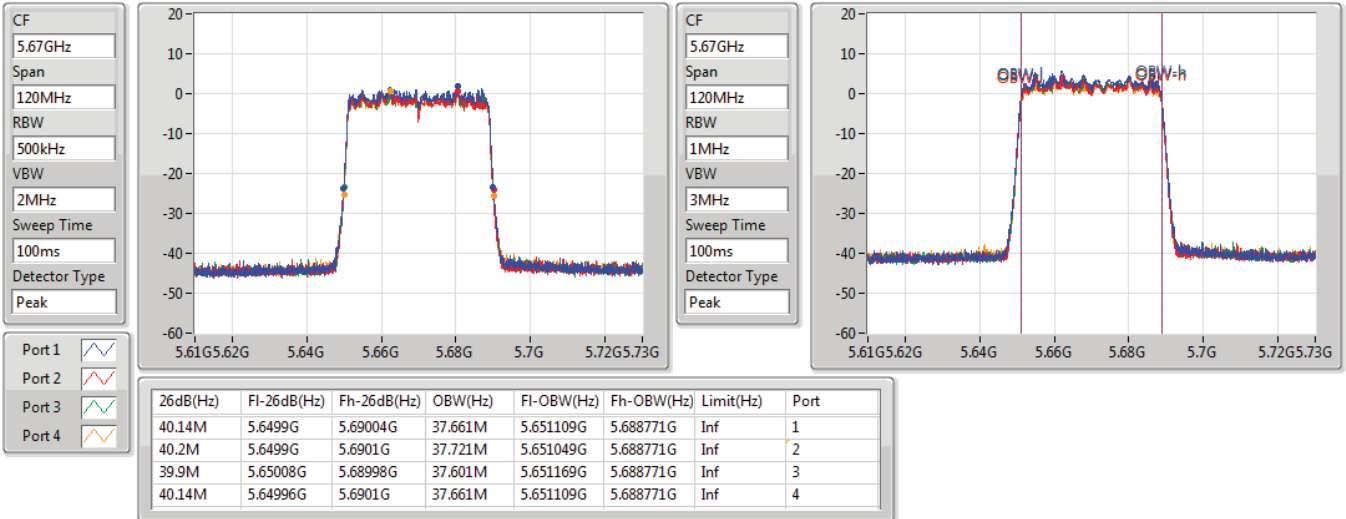


802.11ax HEW40_Nss1,(MCS0)_4TX

EBW

5670MHz

23/12/2021

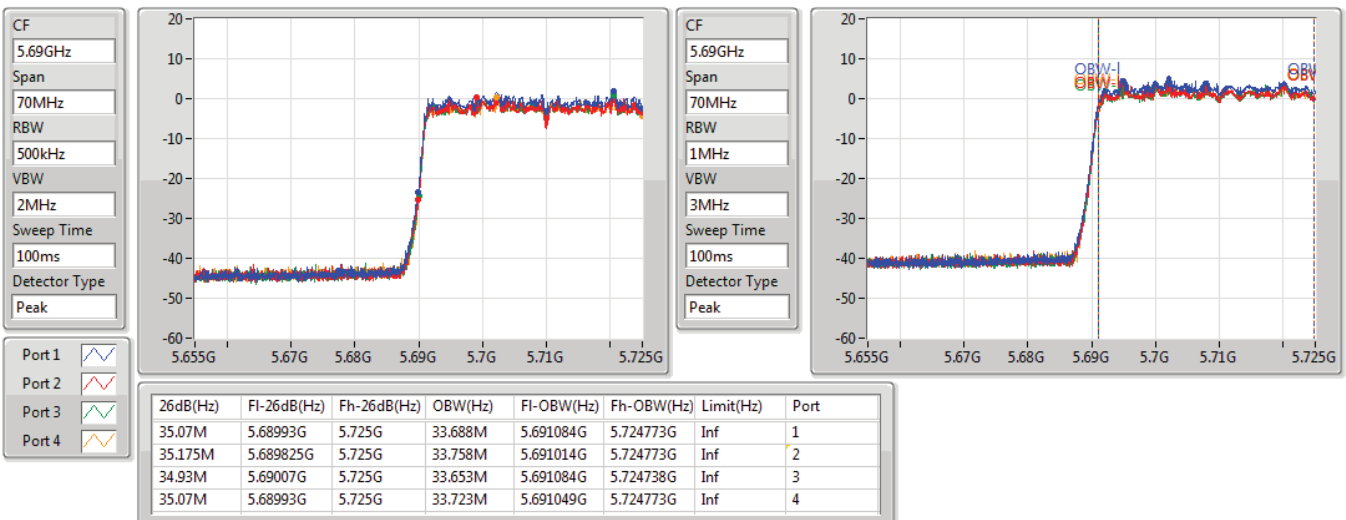


802.11ax HEW40_Nss1,(MCS0)_4TX

EBW

5710MHz Straddle 5.47-5.725GHz

23/12/2021

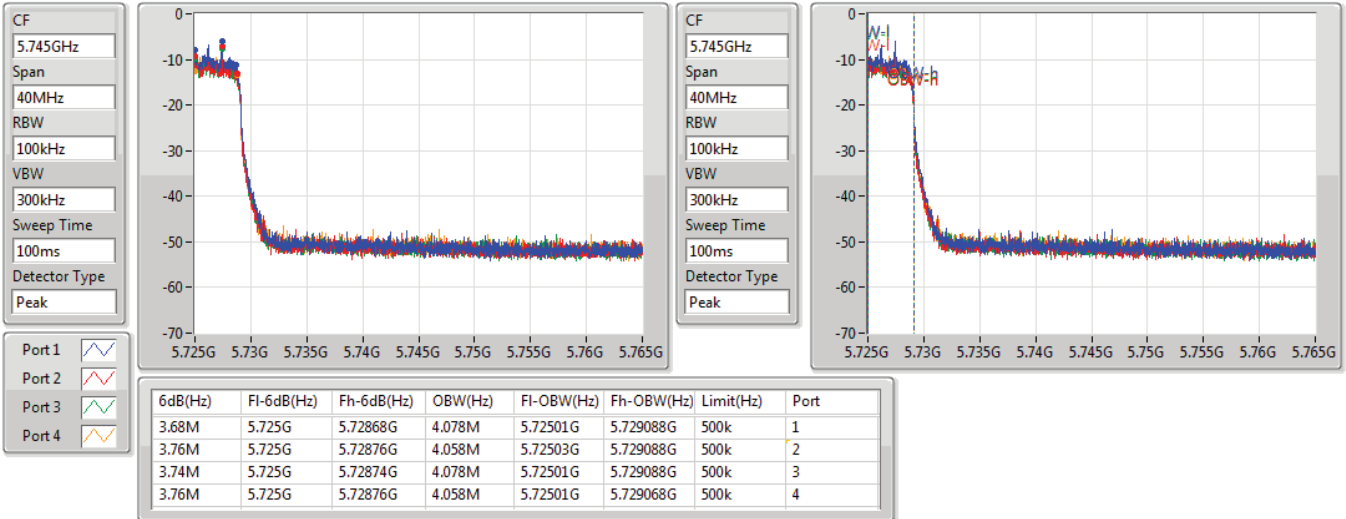


802.11ax HEW40_Nss1,(MCS0)_4TX

EBW

5710MHz Straddle 5.725-5.85GHz

23/12/2021

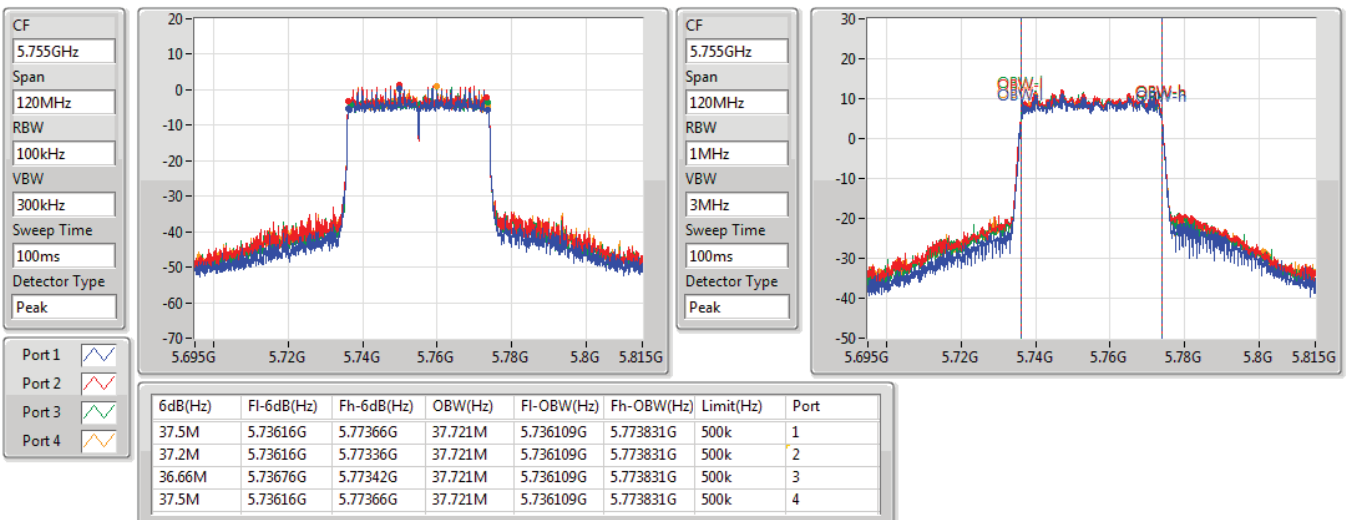


802.11ax HEW40_Nss1,(MCS0)_4TX

EBW

5755MHz

23/12/2021

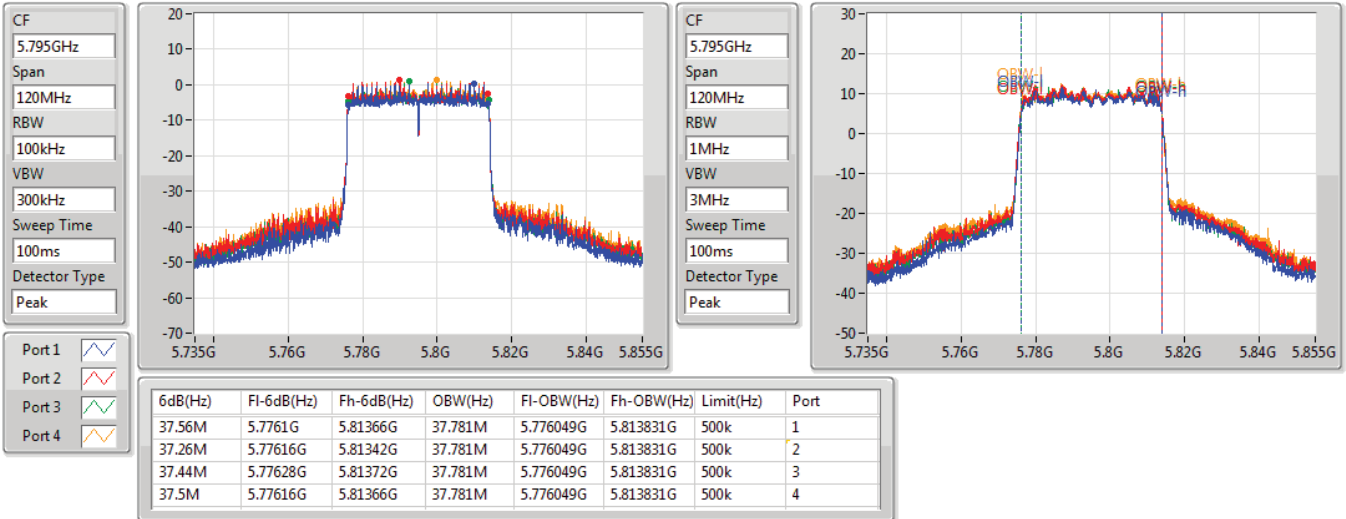


802.11ax HEW40_Nss1,(MCS0)_4TX

EBW

5795MHz

23/12/2021

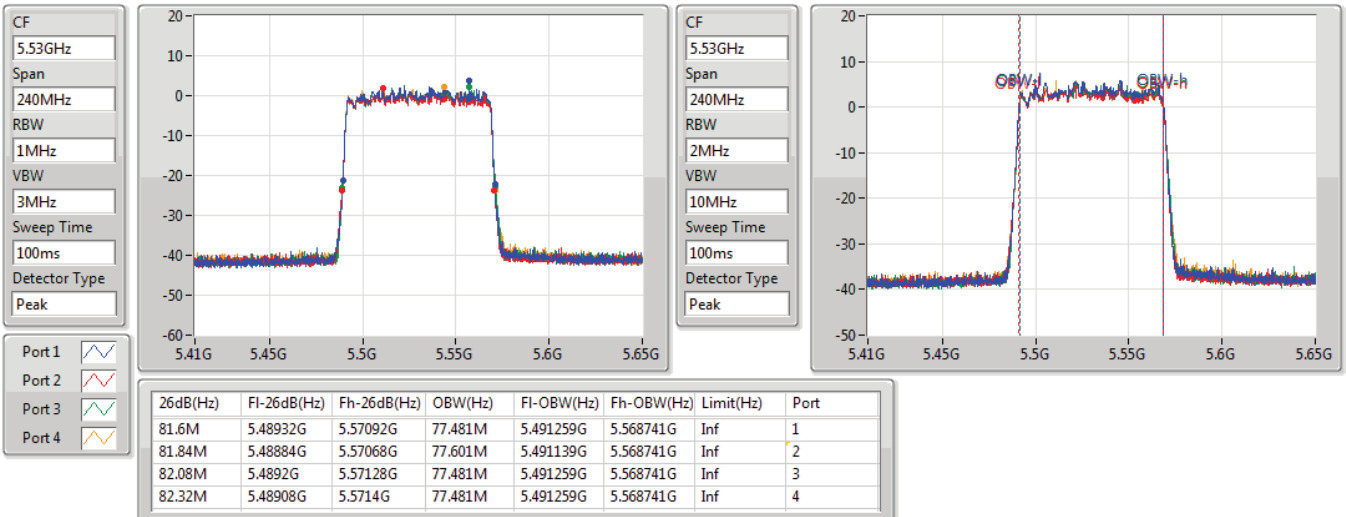


802.11ax HEW80_Nss1,(MCS0)_4TX

EBW

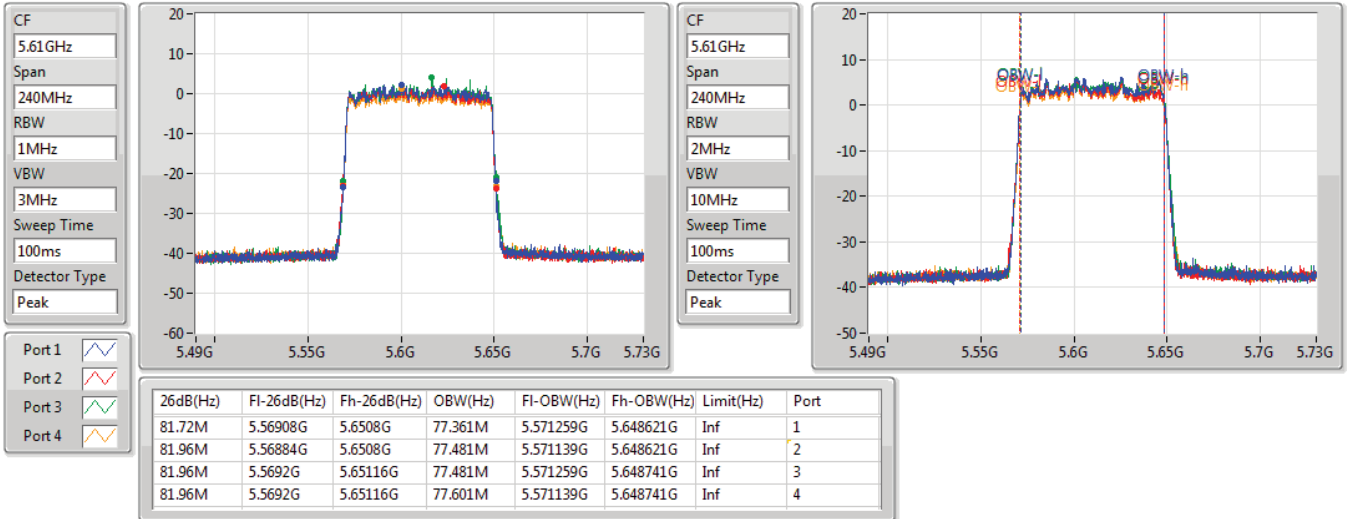
5530MHz

23/12/2021

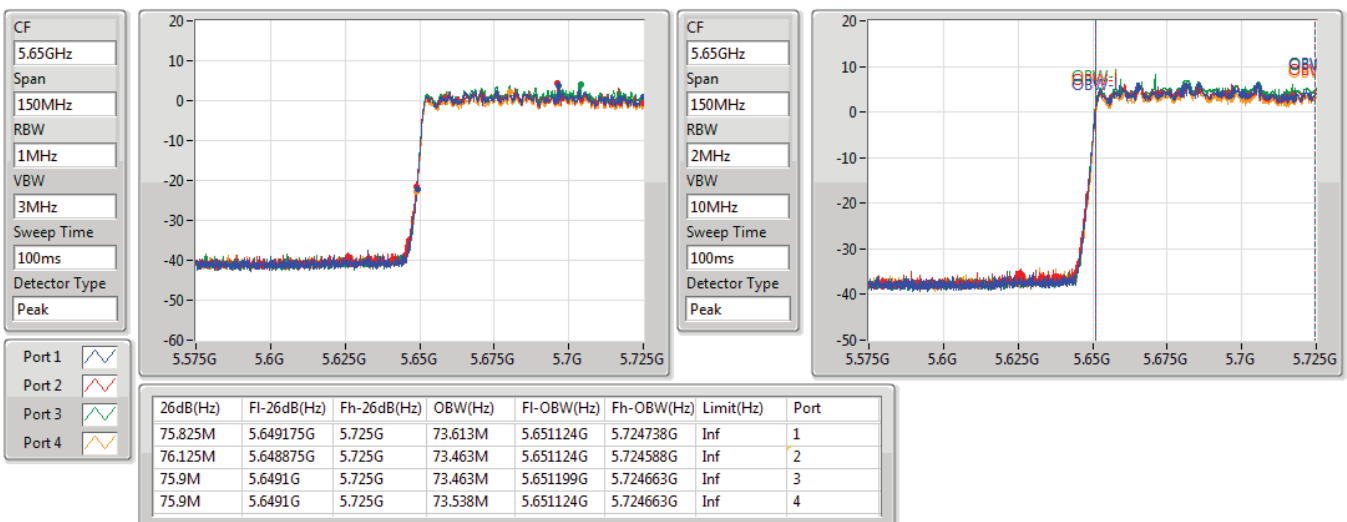


802.11ax HEW80_Nss1,(MCS0)_4TX
EBW
5610MHz

23/12/2021


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

23/12/2021

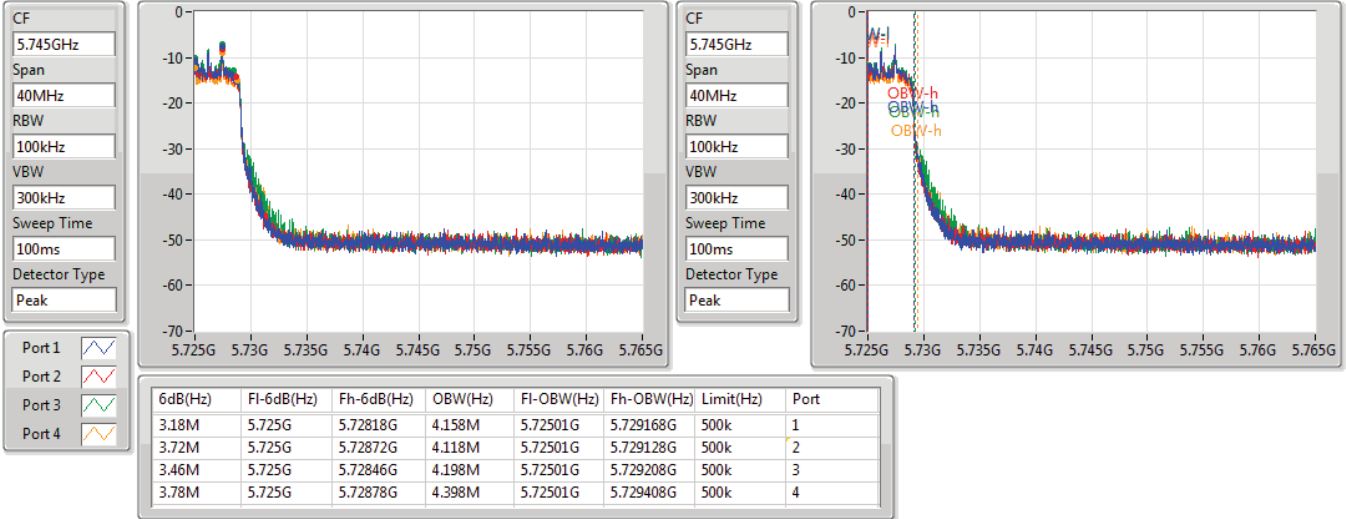


802.11ax HEW80_Nss1,(MCS0)_4TX

EBW

5690MHz Straddle 5.725-5.85GHz

23/12/2021

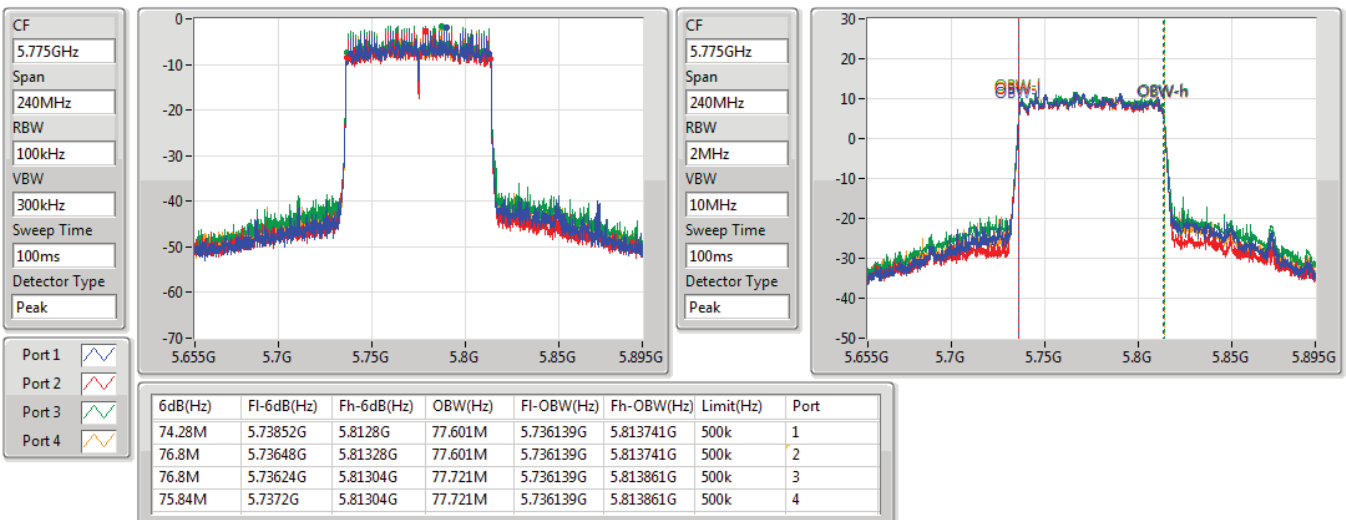


802.11ax HEW80_Nss1,(MCS0)_4TX

EBW

5775MHz

23/12/2021

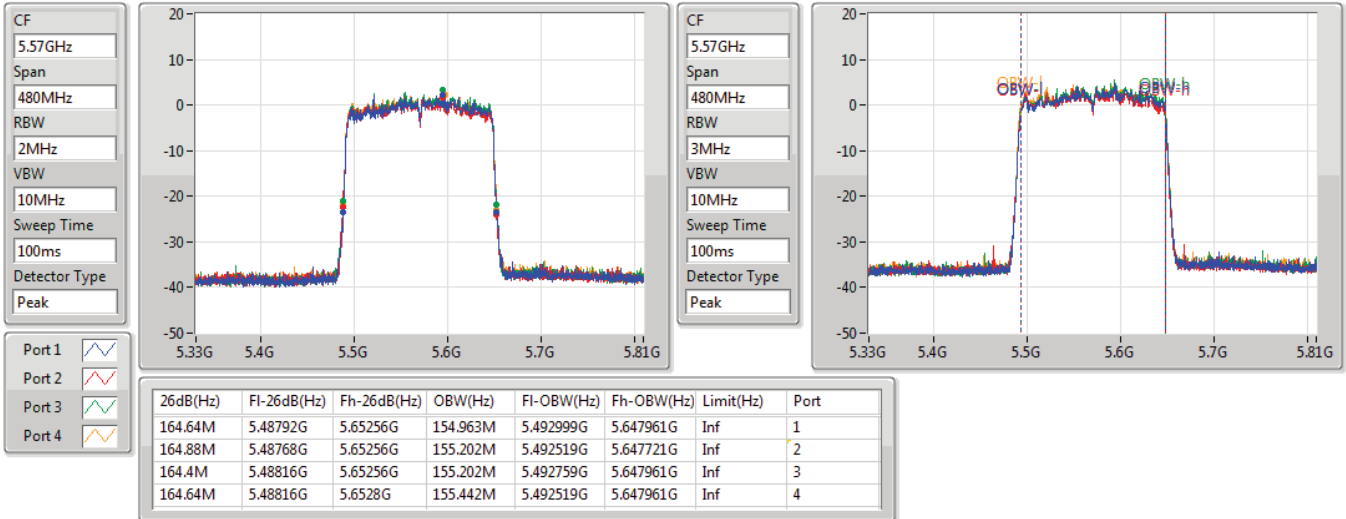


802.11ax HEW160_Nss1,(MCS0)_4TX

EBW

5570MHz

23/12/2021



**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	21.72M	19.1M	19M1D1D	21.42M	19.01M
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	40.26M	37.841M	37M8D1D	39.96M	37.601M
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	81.72M	77.361M	77M4D1D	80.88M	77.241M
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	81.6M	78.601M	78M6D1D	81.04M	77.961M
5.25-5.35GHz	-	-	-	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	21.72M	19.1M	19M1D1D	21.36M	19.04M
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	40.62M	37.841M	37M8D1D	39.84M	37.661M
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	81.72M	77.601M	77M6D1D	81M	77.361M
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	82.64M	78.281M	78M3D1D	82.32M	77.961M
5.47-5.725GHz	-	-	-	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	21.75M	19.13M	19M1D1D	15.705M	14.558M
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	40.56M	37.841M	37M8D1D	35.175M	33.723M
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	81.48M	77.601M	77M6D1D	75.45M	73.238M
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	164.88M	155.682M	156MD1D	162.72M	154.963M
5.725-5.85GHz	-	-	-	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	19.02M	19.1M	19M1D1D	4.46M	4.638M
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	37.8M	37.841M	37M8D1D	3.78M	4.118M
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	77.16M	77.601M	77M6D1D	3.7M	14.013M

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



Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)	Port 3-N dB (Hz)	Port 3-OBW (Hz)	Port 4-N dB (Hz)	Port 4-OBW (Hz)
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	Inf	21.51M	19.07M	21.42M	19.04M	21.42M	19.07M	21.6M	19.01M
5200MHz	Pass	Inf	21.63M	19.1M	21.72M	19.1M	21.54M	19.1M	21.6M	19.1M
5240MHz	Pass	Inf	21.54M	19.04M	21.57M	19.07M	21.63M	19.07M	21.57M	19.07M
5260MHz	Pass	Inf	21.36M	19.04M	21.54M	19.1M	21.39M	19.07M	21.69M	19.1M
5300MHz	Pass	Inf	21.6M	19.1M	21.57M	19.1M	21.6M	19.1M	21.72M	19.1M
5320MHz	Pass	Inf	21.6M	19.1M	21.51M	19.1M	21.72M	19.1M	21.36M	19.07M
5500MHz	Pass	Inf	21.63M	19.07M	21.57M	19.04M	21.57M	19.07M	21.39M	19.1M
5580MHz	Pass	Inf	21.51M	19.07M	21.63M	19.04M	21.66M	19.13M	21.57M	19.1M
5700MHz	Pass	Inf	21.75M	19.13M	21.63M	19.1M	21.69M	19.1M	21.75M	19.13M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	15.78M	14.588M	15.81M	14.603M	15.855M	14.603M	15.705M	14.558M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	4.46M	4.638M	4.48M	4.638M	4.48M	4.638M	4.46M	4.658M
5745MHz	Pass	500k	18.96M	19.1M	18.93M	19.04M	18.93M	19.04M	18.78M	19.04M
5785MHz	Pass	500k	18.99M	19.07M	18.87M	19.01M	18.84M	19.07M	18.99M	19.07M
5825MHz	Pass	500k	19.02M	19.07M	18.96M	19.04M	18.99M	19.04M	18.75M	19.04M
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	Inf	40.14M	37.841M	39.96M	37.721M	40.08M	37.781M	40.26M	37.721M
5230MHz	Pass	Inf	40.08M	37.661M	40.02M	37.601M	40.26M	37.601M	40.08M	37.661M
5270MHz	Pass	Inf	40.14M	37.661M	40.62M	37.661M	40.02M	37.661M	39.96M	37.661M
5310MHz	Pass	Inf	40.2M	37.721M	39.84M	37.721M	40.02M	37.781M	40.14M	37.841M
5510MHz	Pass	Inf	40.08M	37.781M	40.44M	37.781M	40.2M	37.721M	40.26M	37.781M
5550MHz	Pass	Inf	40.08M	37.841M	40.14M	37.841M	39.96M	37.721M	40.02M	37.721M
5670MHz	Pass	Inf	40.02M	37.781M	40.08M	37.721M	40.56M	37.781M	40.08M	37.781M
5710MHz Straddle 5.47-5.725GHz	Pass	Inf	35.21M	33.793M	35.245M	33.723M	35.28M	33.793M	35.175M	33.758M
5710MHz Straddle 5.725-5.85GHz	Pass	500k	3.8M	4.118M	3.88M	4.118M	3.84M	4.158M	3.78M	4.138M
5755MHz	Pass	500k	35.82M	37.781M	37.44M	37.781M	37.8M	37.781M	35.88M	37.781M
5795MHz	Pass	500k	37.26M	37.781M	36.6M	37.841M	37.62M	37.781M	36.06M	37.781M
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	Inf	81.36M	77.241M	81.72M	77.361M	80.88M	77.241M	81.24M	77.241M
5290MHz	Pass	Inf	81M	77.481M	81.24M	77.481M	81.72M	77.601M	81M	77.361M
5530MHz	Pass	Inf	81.12M	77.361M	81.24M	77.361M	80.88M	77.241M	81.12M	77.481M
5610MHz	Pass	Inf	81.12M	77.361M	81.48M	77.481M	81.36M	77.481M	81.36M	77.601M
5690MHz Straddle 5.47-5.725GHz	Pass	Inf	75.525M	73.313M	75.45M	73.238M	75.45M	73.313M	75.525M	73.313M
5690MHz Straddle 5.725-5.85GHz	Pass	500k	3.7M	14.953M	3.98M	18.211M	3.96M	19.07M	3.98M	14.013M
5775MHz	Pass	500k	75.48M	77.481M	76.32M	77.481M	77.16M	77.241M	75.48M	77.601M
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	Inf	81.36M	78.201M	81.04M	78.601M	81.6M	77.961M	81.6M	77.961M
5250MHz Straddle 5.25-5.35GHz	Pass	Inf	82.4M	78.041M	82.64M	78.201M	82.4M	78.281M	82.32M	77.961M
5570MHz	Pass	Inf	162.72M	154.963M	164.88M	155.442M	163.2M	155.682M	163.2M	155.682M

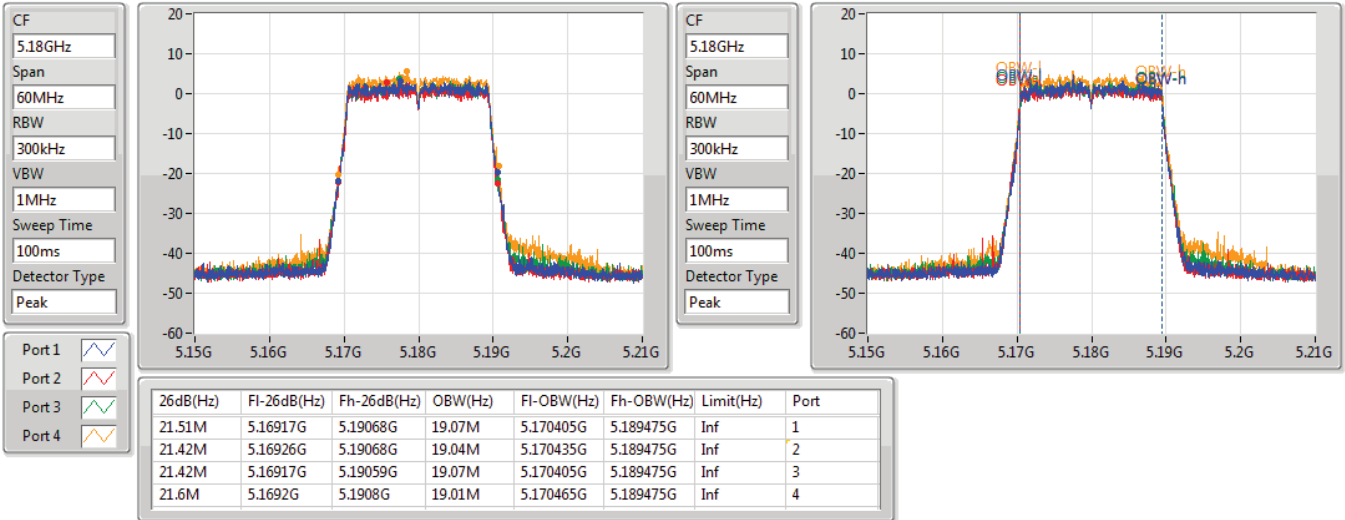
Port X-N dB = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band
Port X-OBW = Port X 99% occupied bandwidth

802.11ax HEW20-BF_Nss1,(MCS0)_4TX

EBW

5180MHz

24/12/2021

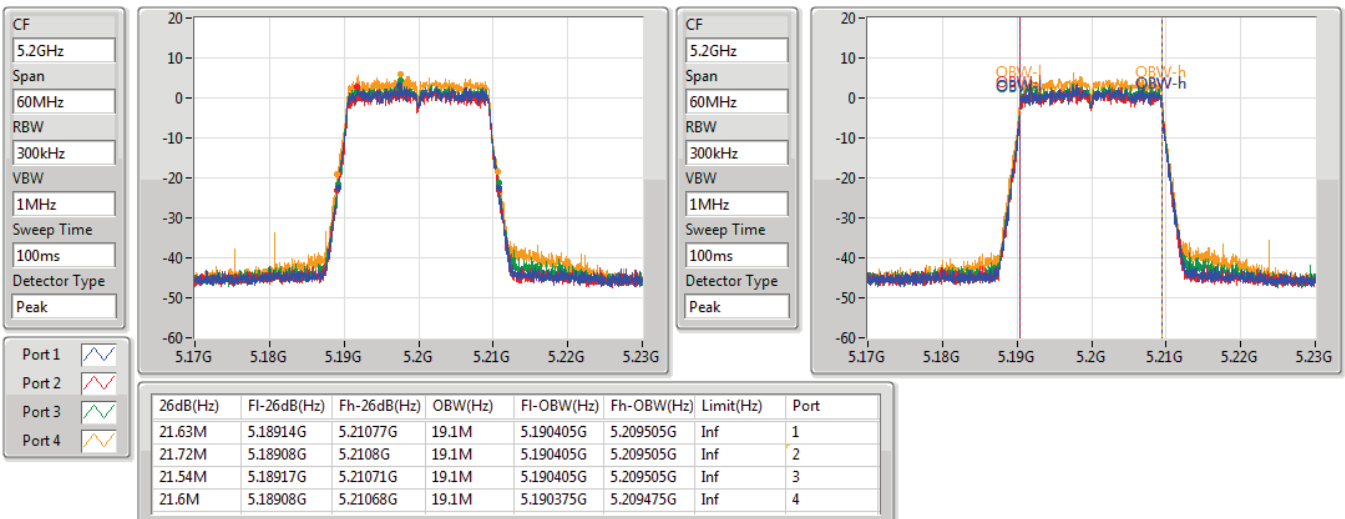


802.11ax HEW20-BF_Nss1,(MCS0)_4TX

EBW

5200MHz

24/12/2021

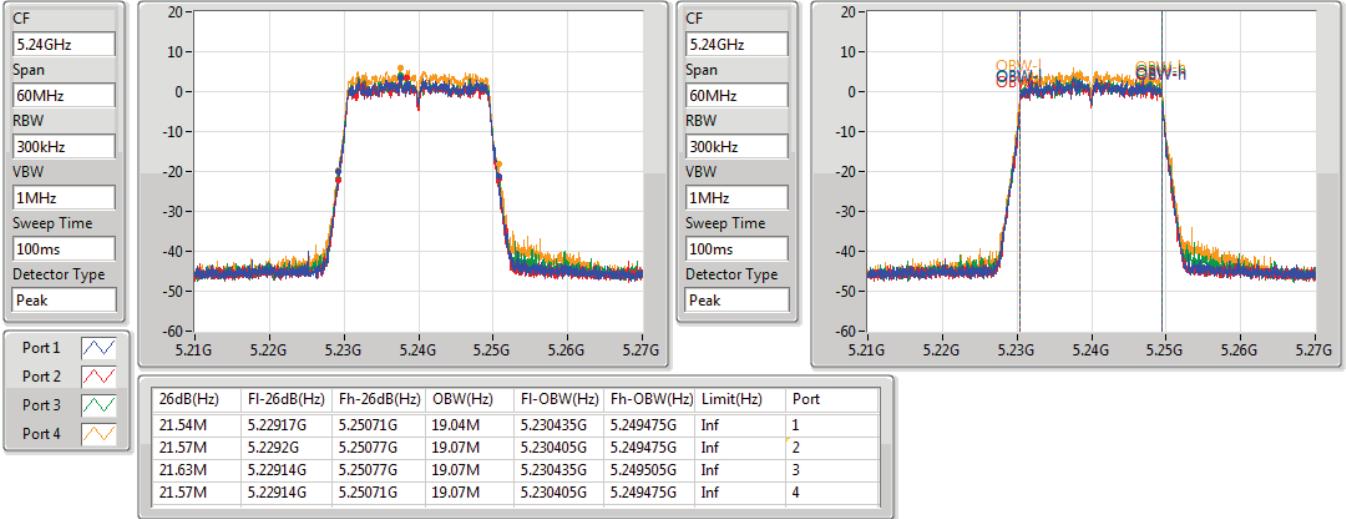


802.11ax HEW20-BF_Nss1,(MCS0)_4TX

EBW

5240MHz

24/12/2021

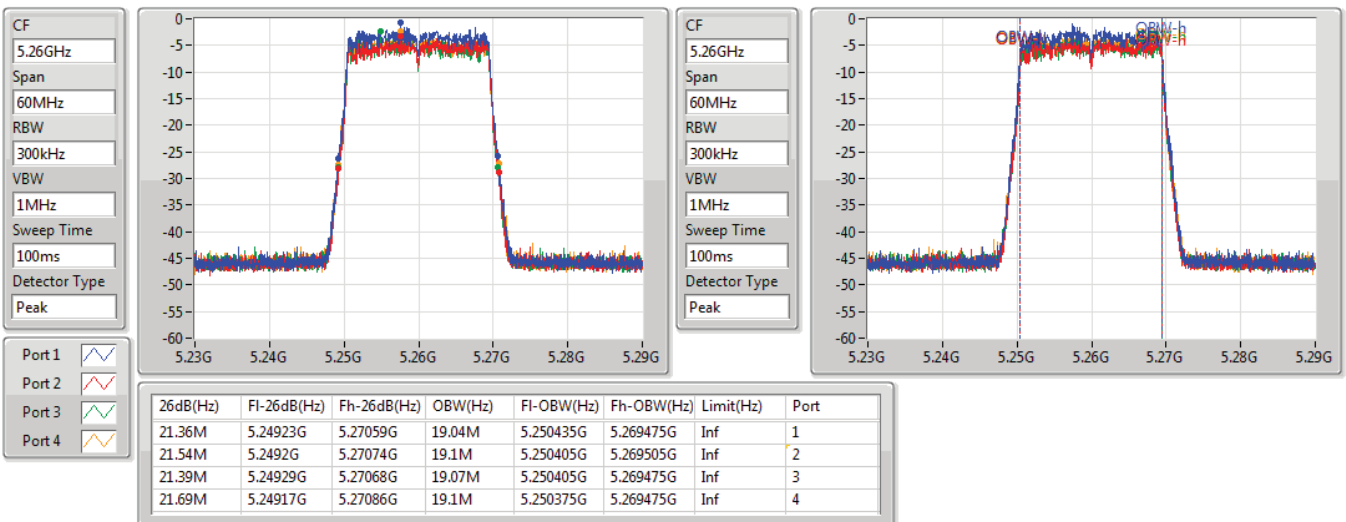


802.11ax HEW20-BF_Nss1,(MCS0)_4TX

EBW

5260MHz

24/12/2021

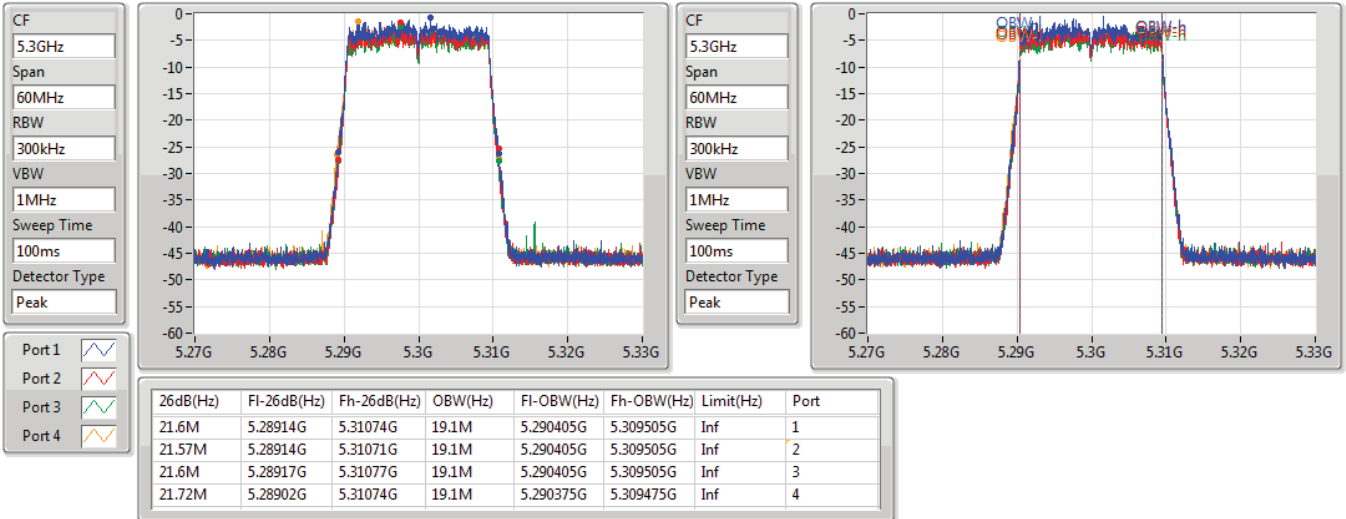


802.11ax HEW20-BF_Nss1,(MCS0)_4TX

EBW

5300MHz

24/12/2021

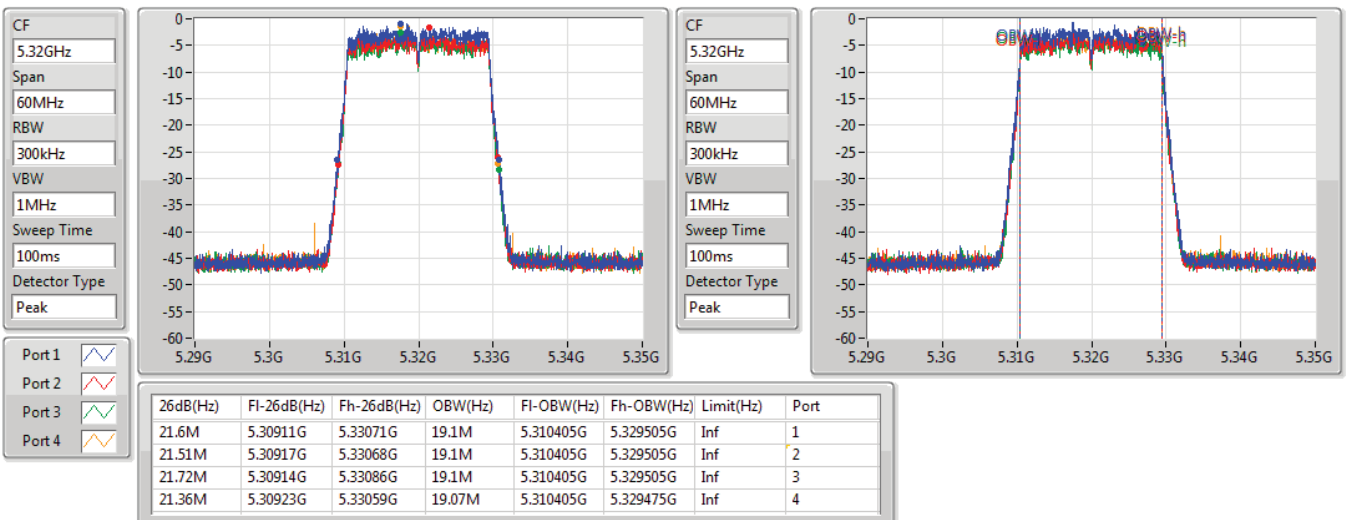


802.11ax HEW20-BF_Nss1,(MCS0)_4TX

EBW

5320MHz

24/12/2021

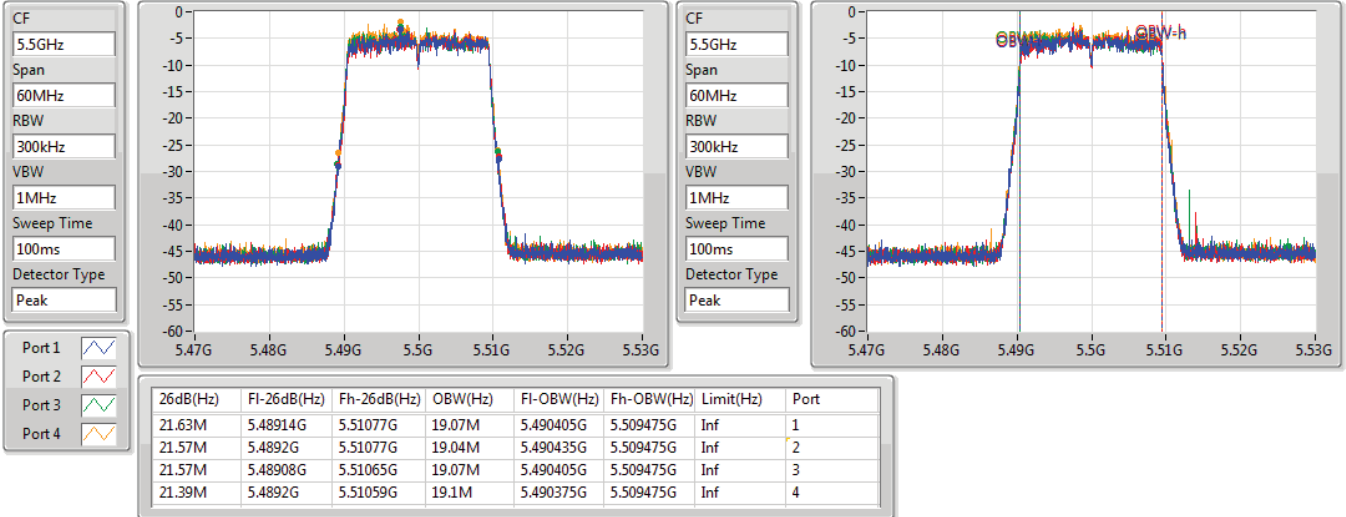


802.11ax HEW20-BF_Nss1,(MCS0)_4TX

EBW

5500MHz

24/12/2021

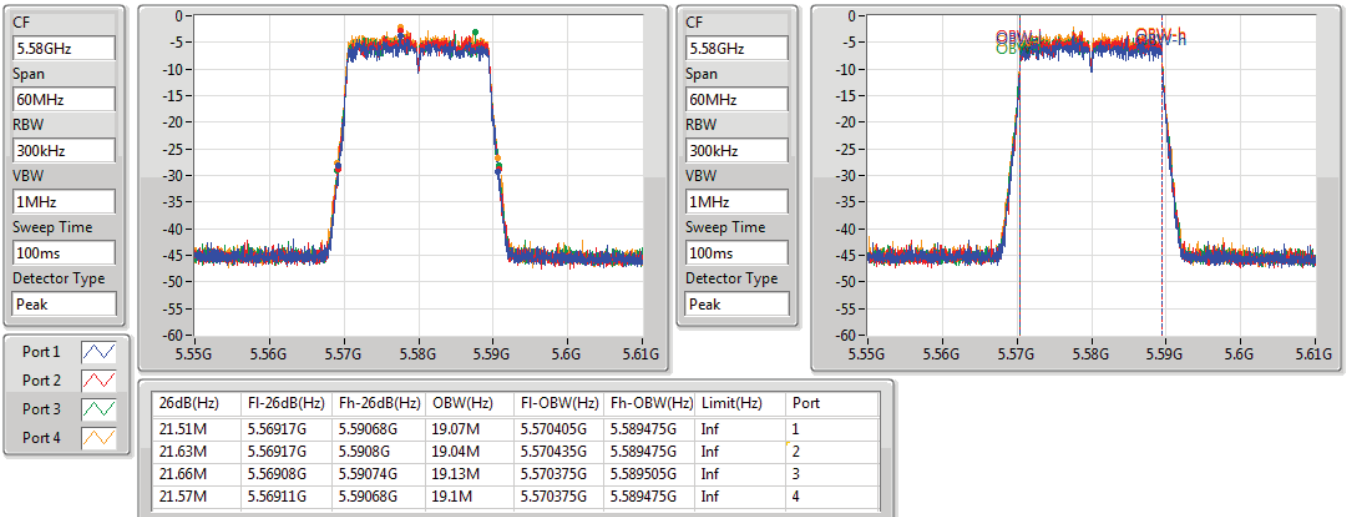


802.11ax HEW20-BF_Nss1,(MCS0)_4TX

EBW

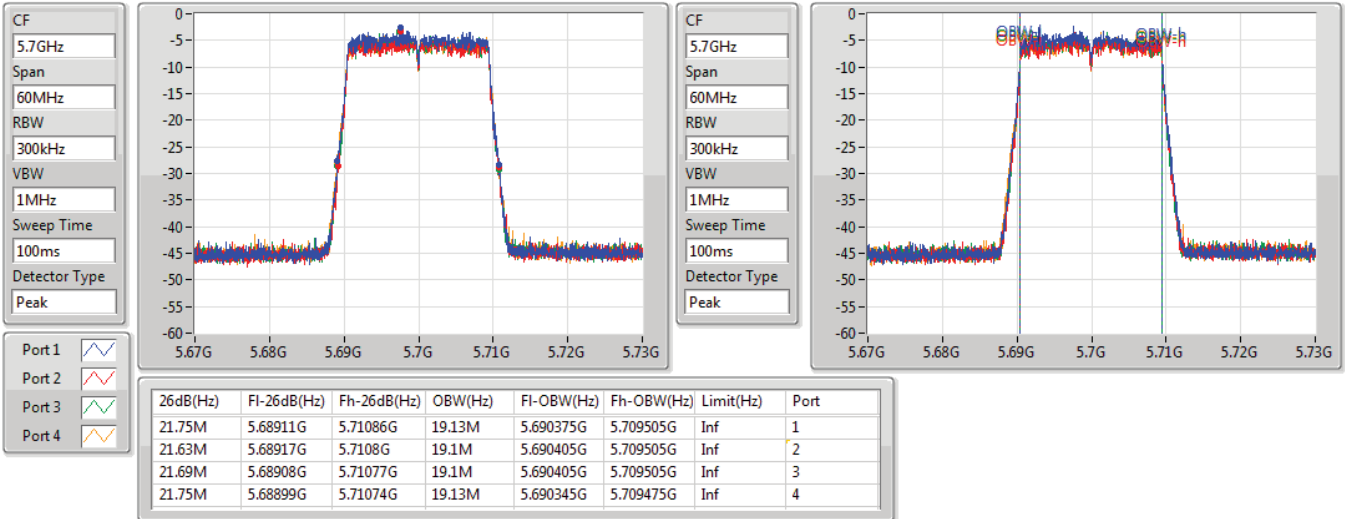
5580MHz

24/12/2021

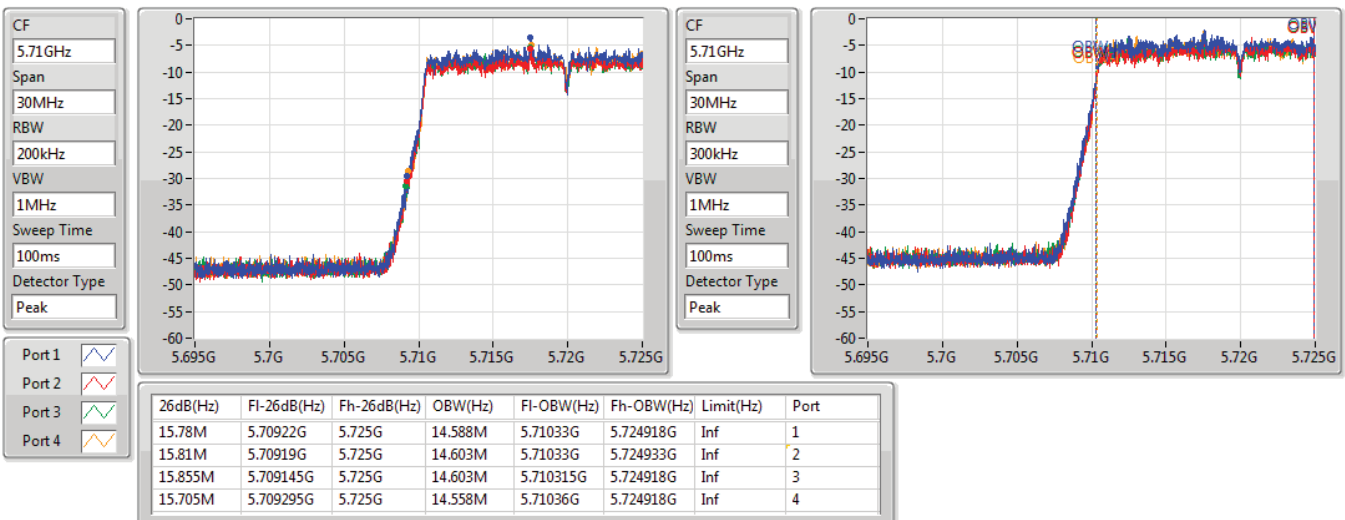


802.11ax HEW20-BF_Nss1,(MCS0)_4TX
EBW
5700MHz

24/12/2021

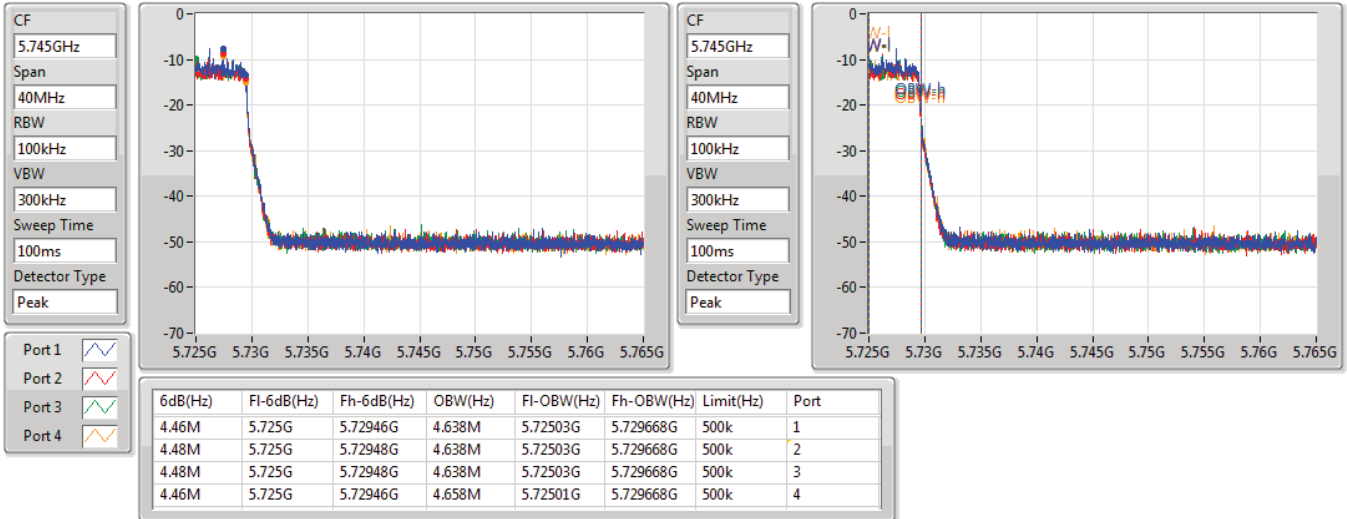

802.11ax HEW20-BF_Nss1,(MCS0)_4TX
EBW
5720MHz Straddle 5.47-5.725GHz

24/12/2021

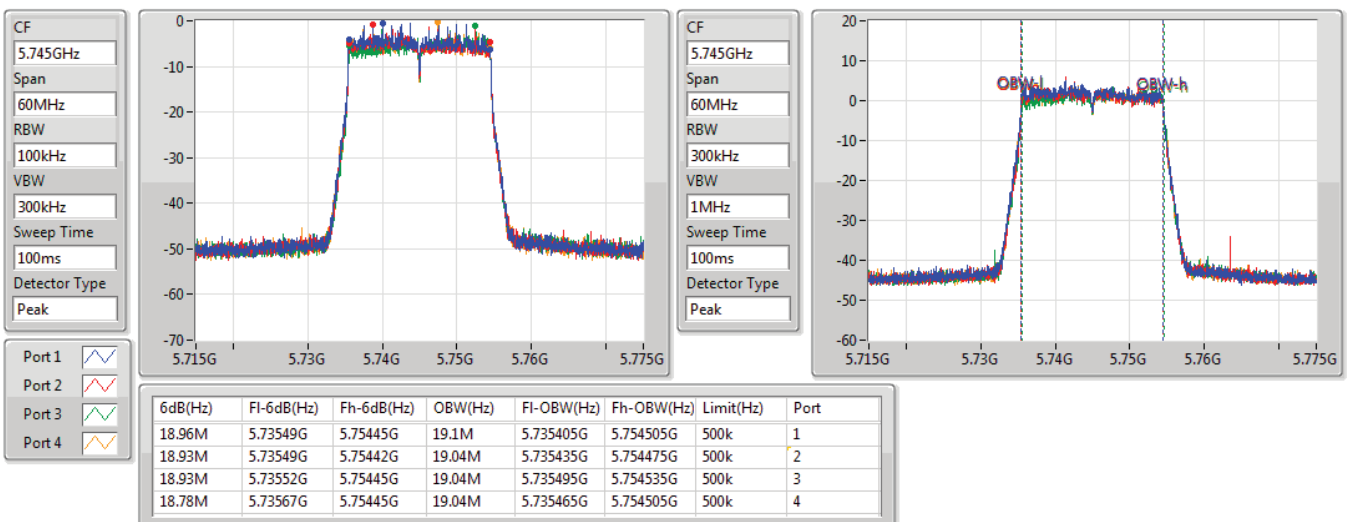


802.11ax HEW20-BF_Nss1,(MCS0)_4TX
EBW
5720MHz Straddle 5.725-5.85GHz

24/12/2021


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

24/12/2021

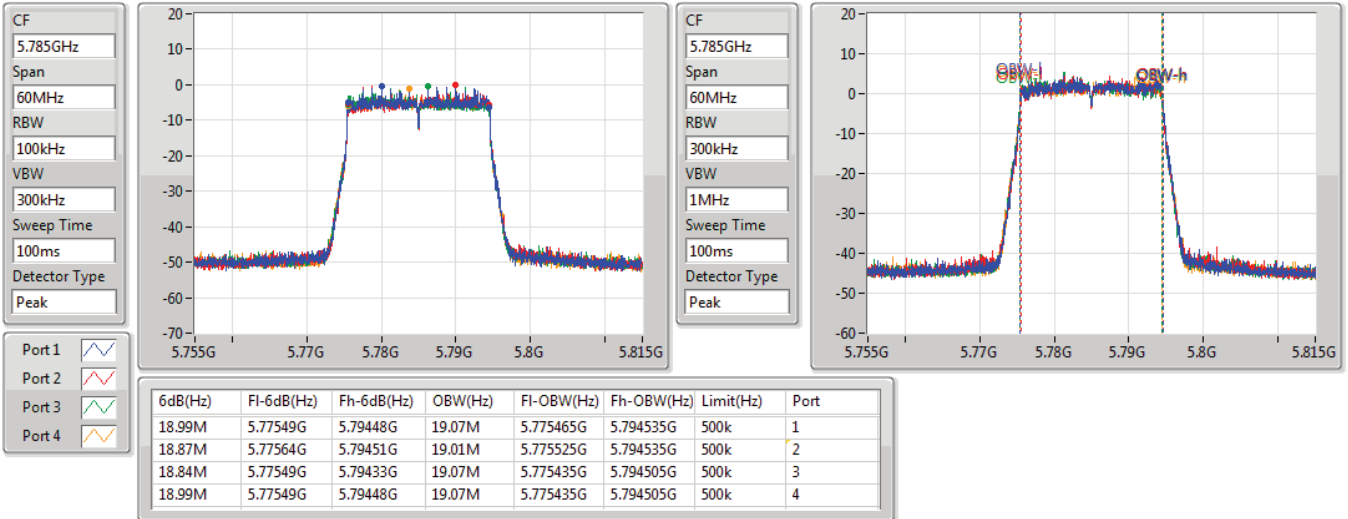


802.11ax HEW20-BF_Nss1,(MCS0)_4TX

EBW

5785MHz

24/12/2021

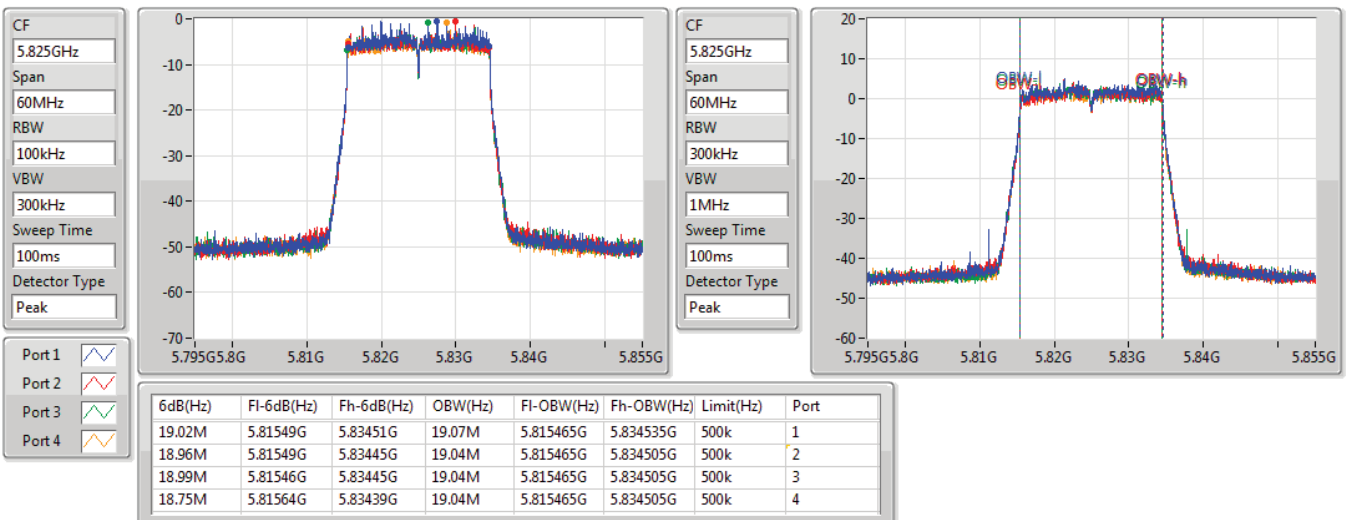


802.11ax HEW20-BF_Nss1,(MCS0)_4TX

EBW

5825MHz

24/12/2021

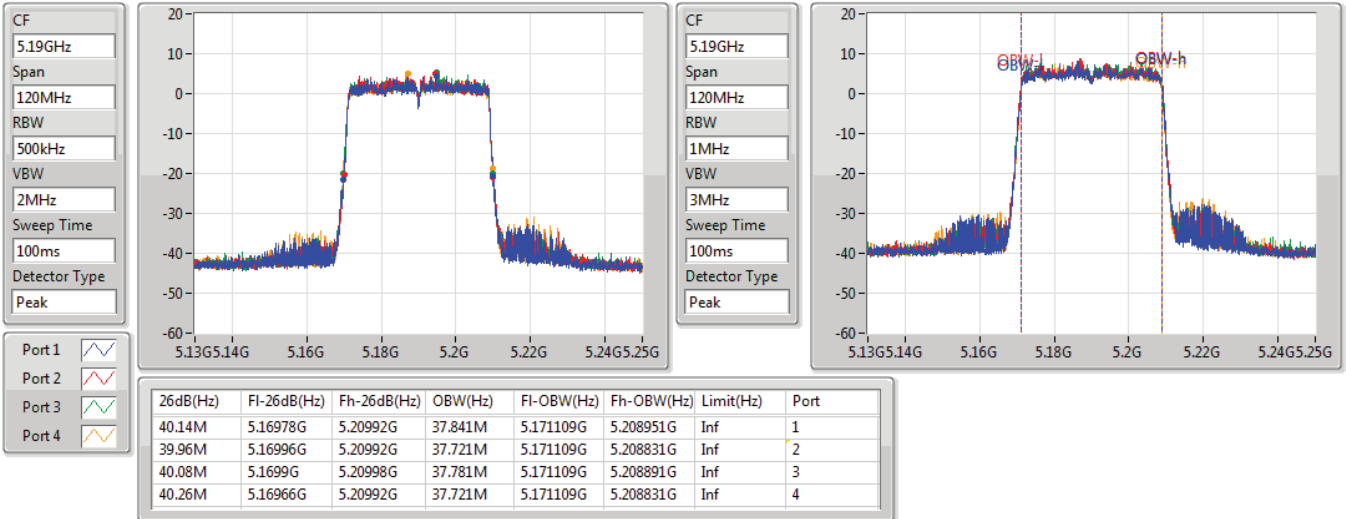


802.11ax HEW40-BF_Nss1,(MCS0)_4TX

EBW

5190MHz

24/12/2021

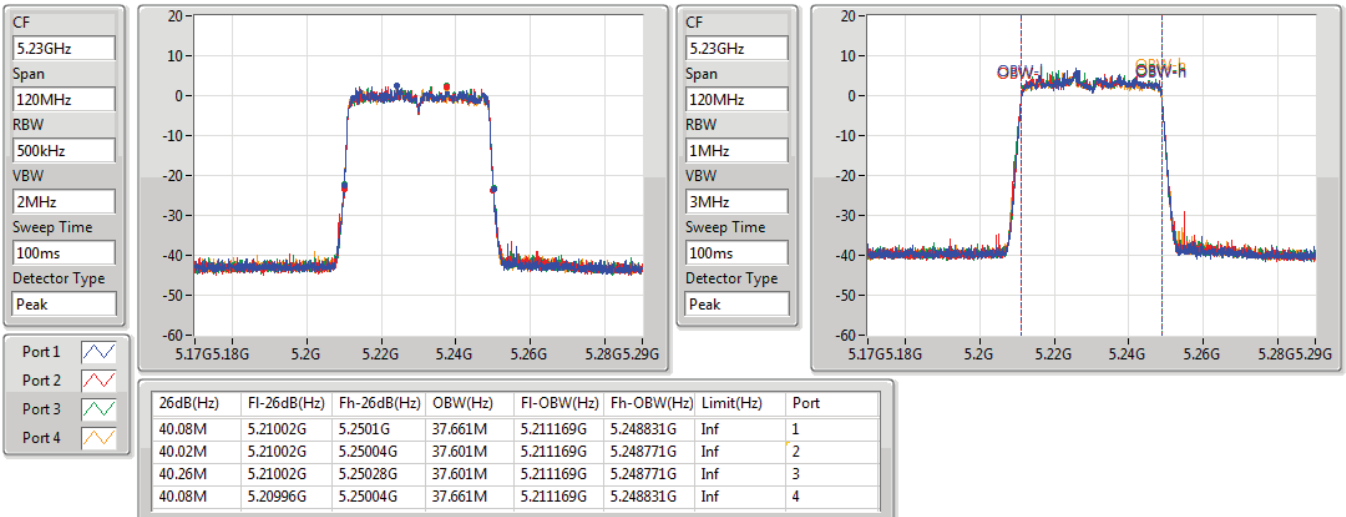


802.11ax HEW40-BF_Nss1,(MCS0)_4TX

EBW

5230MHz

24/12/2021

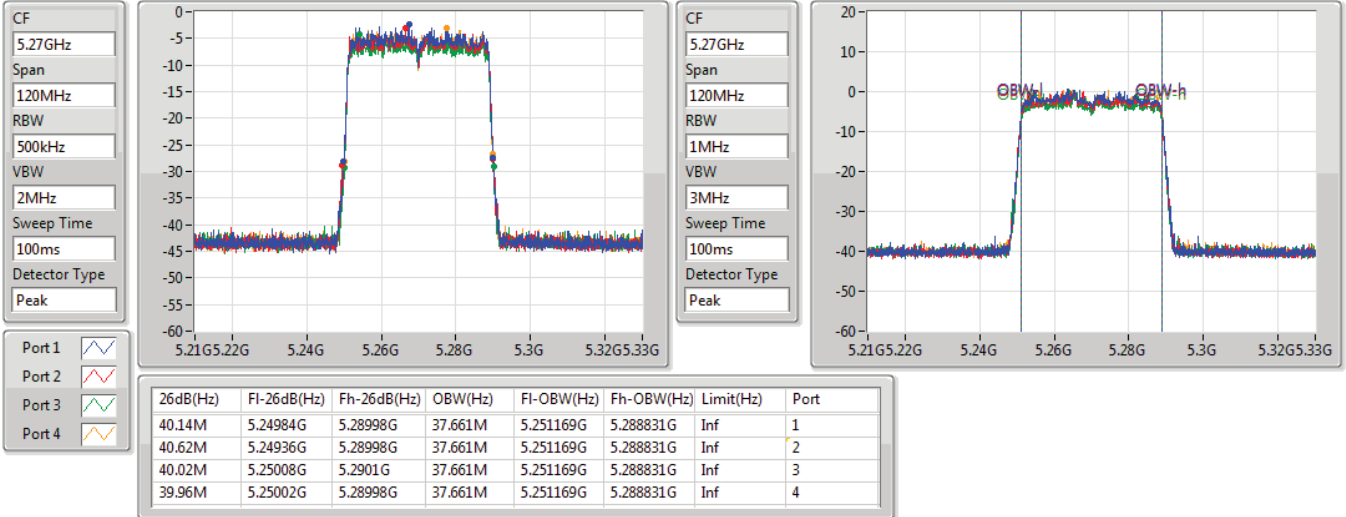


802.11ax HEW40-BF_Nss1,(MCS0)_4TX

EBW

5270MHz

24/12/2021

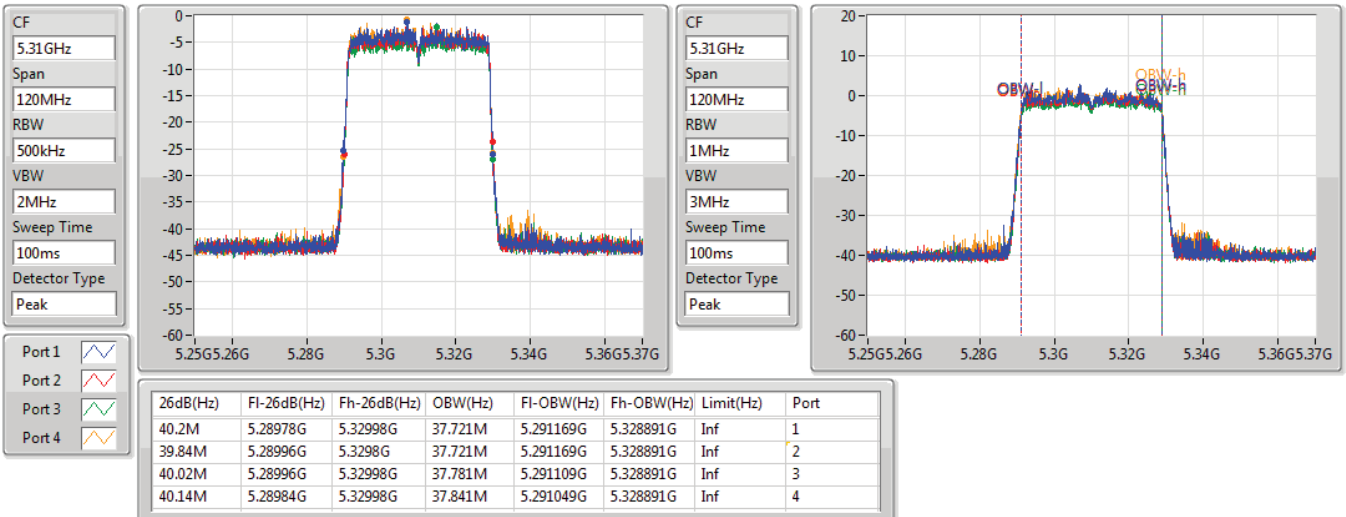


802.11ax HEW40-BF_Nss1,(MCS0)_4TX

EBW

5310MHz

24/12/2021

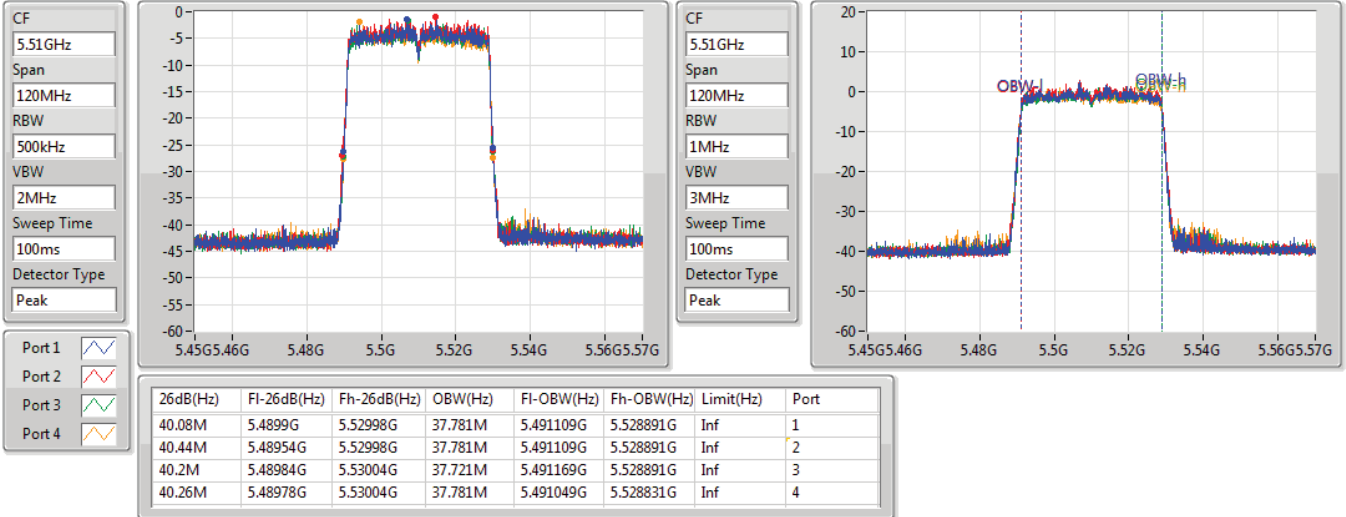


802.11ax HEW40-BF_Nss1,(MCS0)_4TX

EBW

5510MHz

24/12/2021

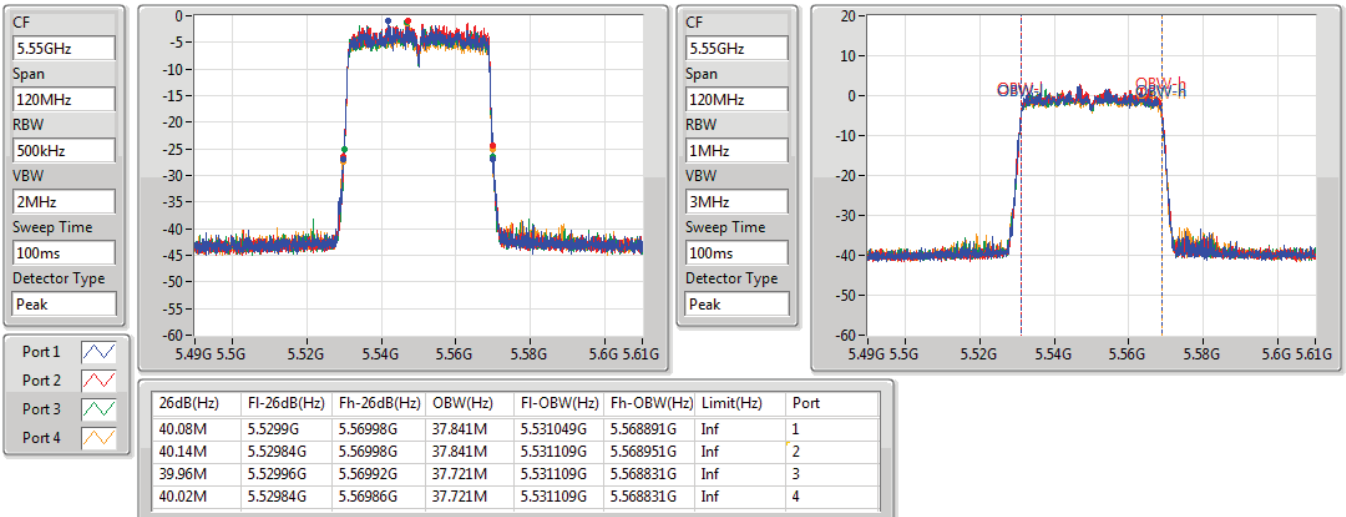


802.11ax HEW40-BF_Nss1,(MCS0)_4TX

EBW

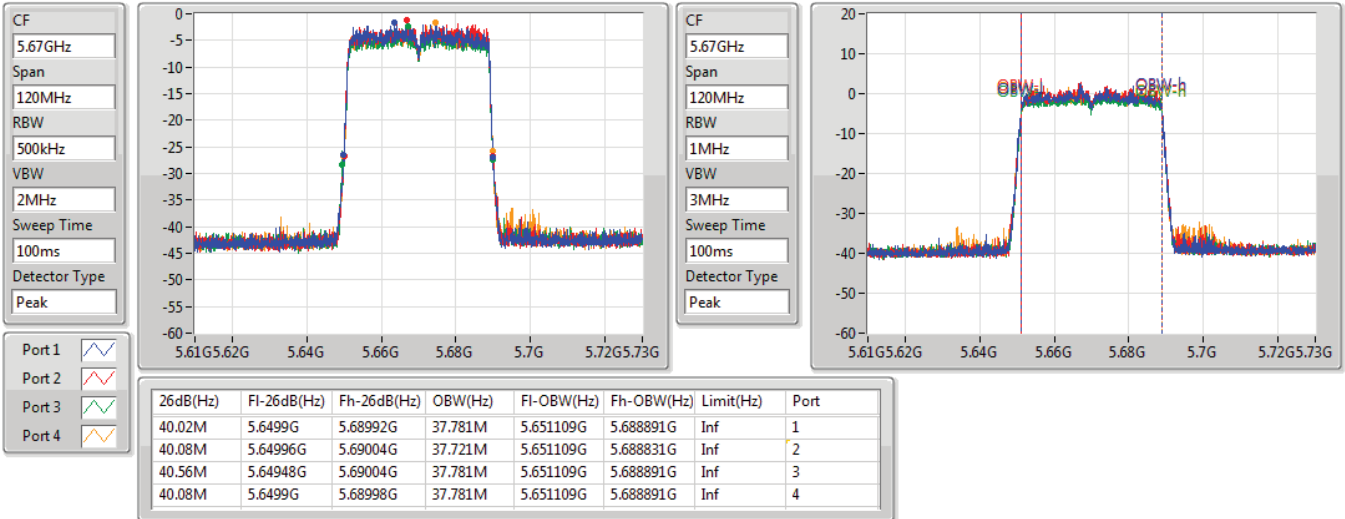
5550MHz

24/12/2021

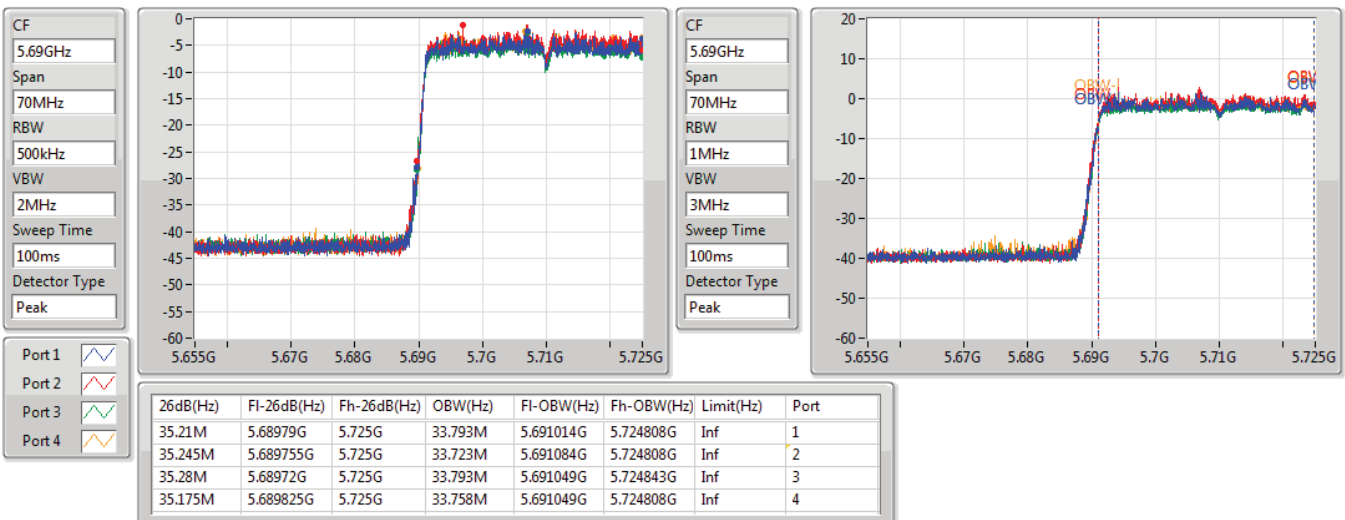


802.11ax HEW40-BF_Nss1,(MCS0)_4TX
EBW
5670MHz

24/12/2021

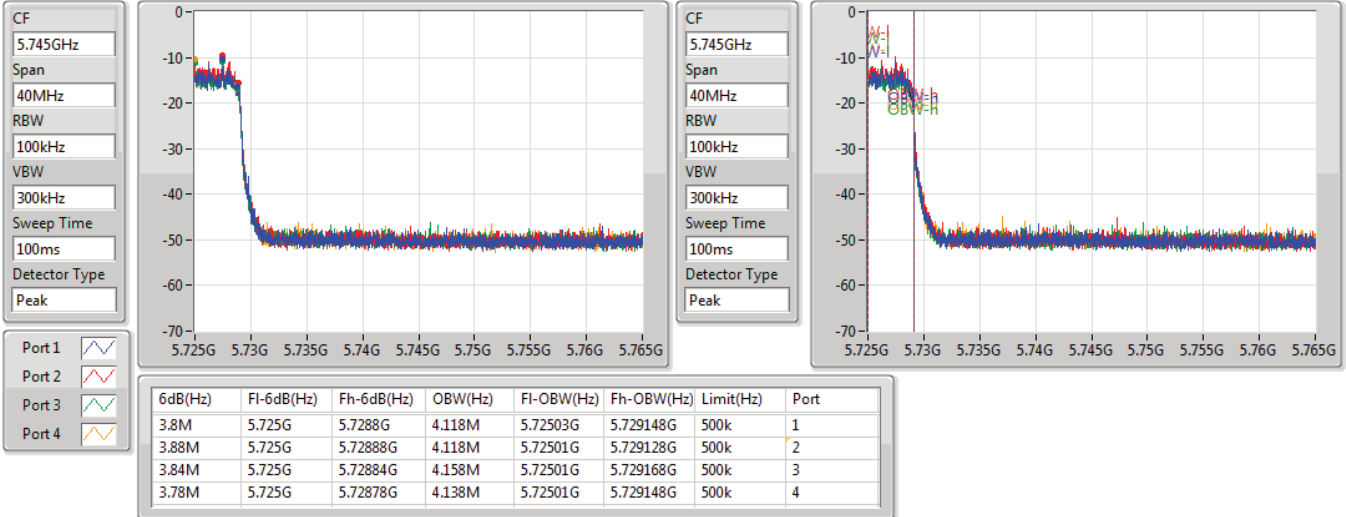

802.11ax HEW40-BF_Nss1,(MCS0)_4TX
EBW
5710MHz Straddle 5.47-5.725GHz

24/12/2021

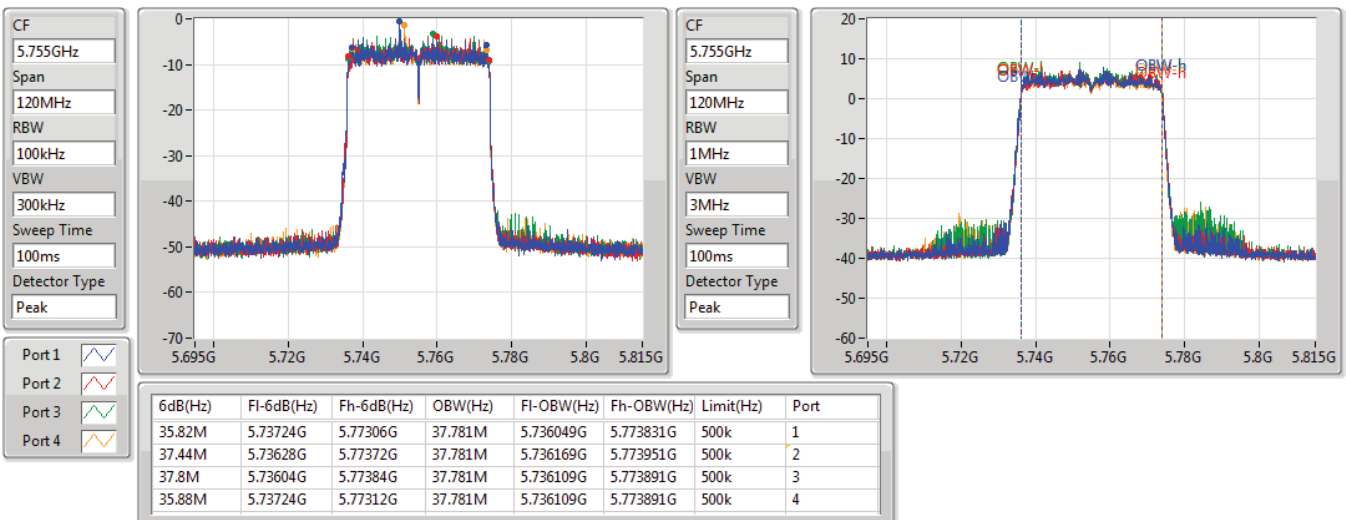


802.11ax HEW40-BF_Nss1,(MCS0)_4TX
EBW
5710MHz Straddle 5.725-5.85GHz

24/12/2021


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

24/12/2021

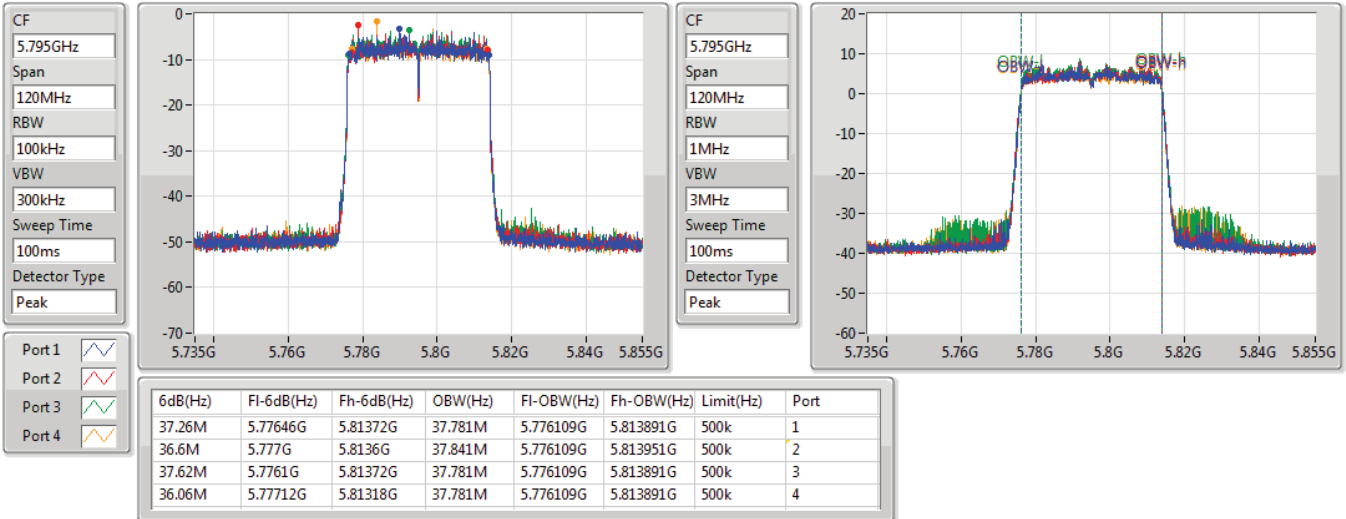


802.11ax HEW40-BF_Nss1,(MCS0)_4TX

EBW

5795MHz

24/12/2021

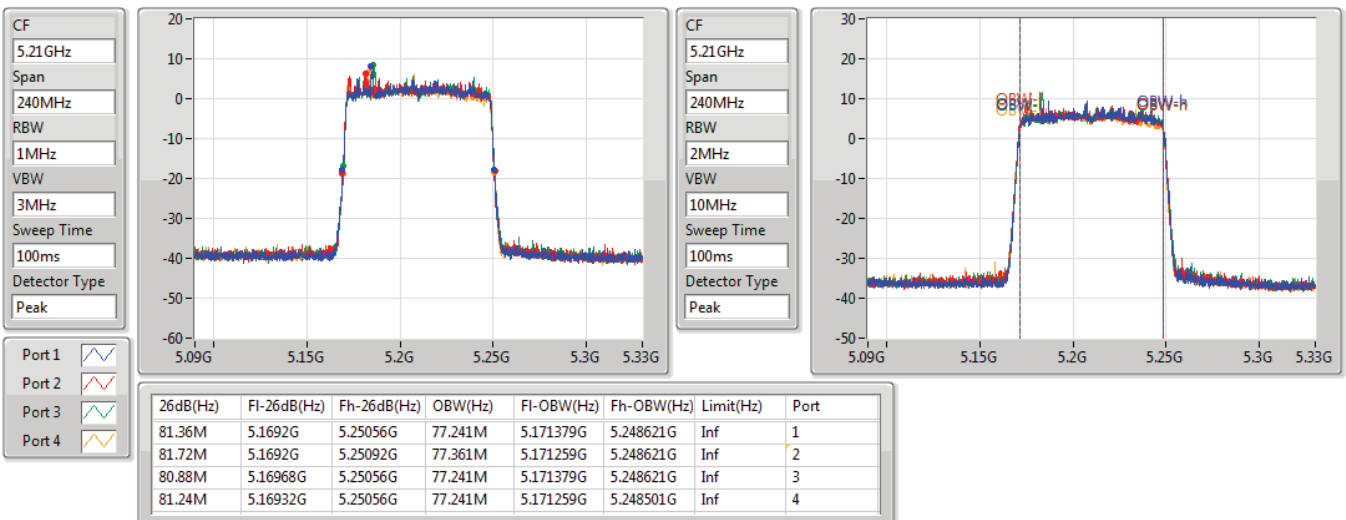


802.11ax HEW80-BF_Nss1,(MCS0)_4TX

EBW

5210MHz

24/12/2021

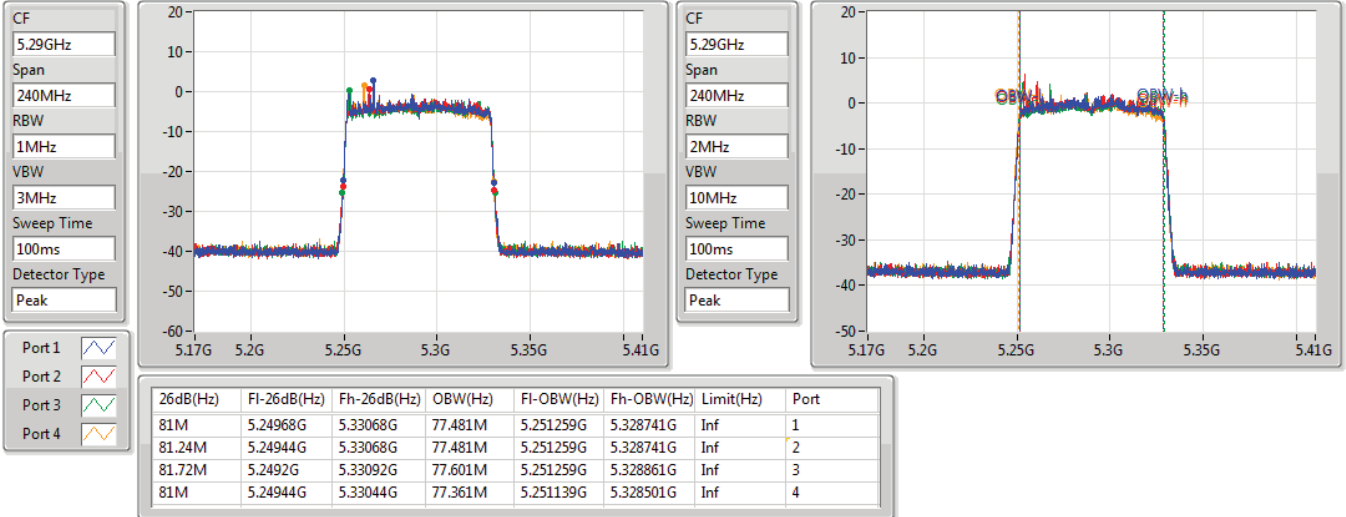


802.11ax HEW80-BF_Nss1,(MCS0)_4TX

EBW

5290MHz

24/12/2021

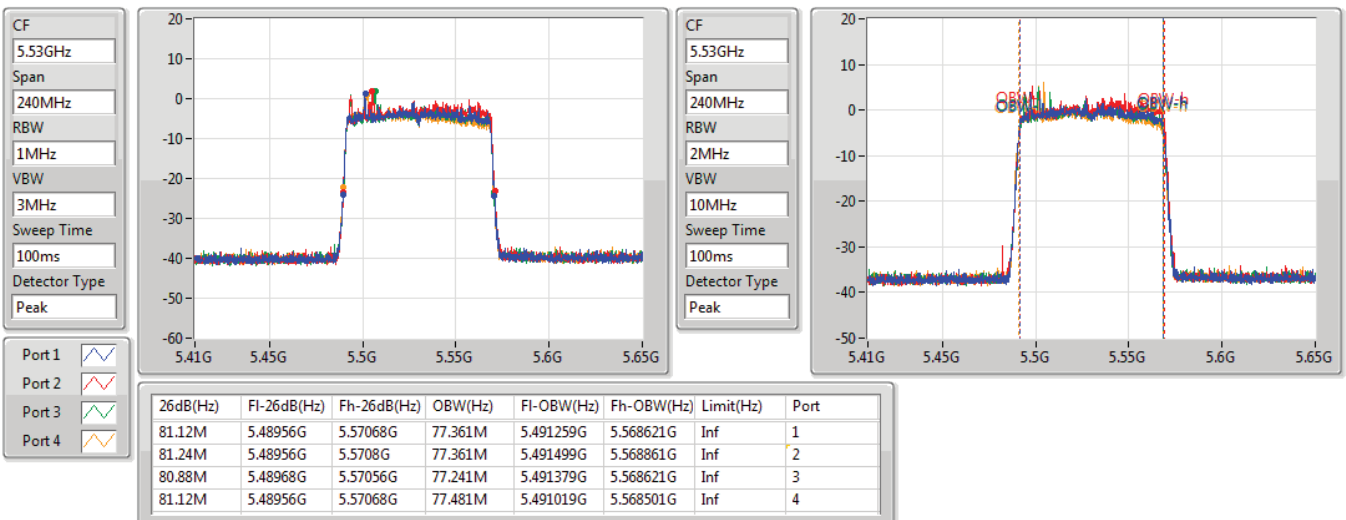


802.11ax HEW80-BF_Nss1,(MCS0)_4TX

EBW

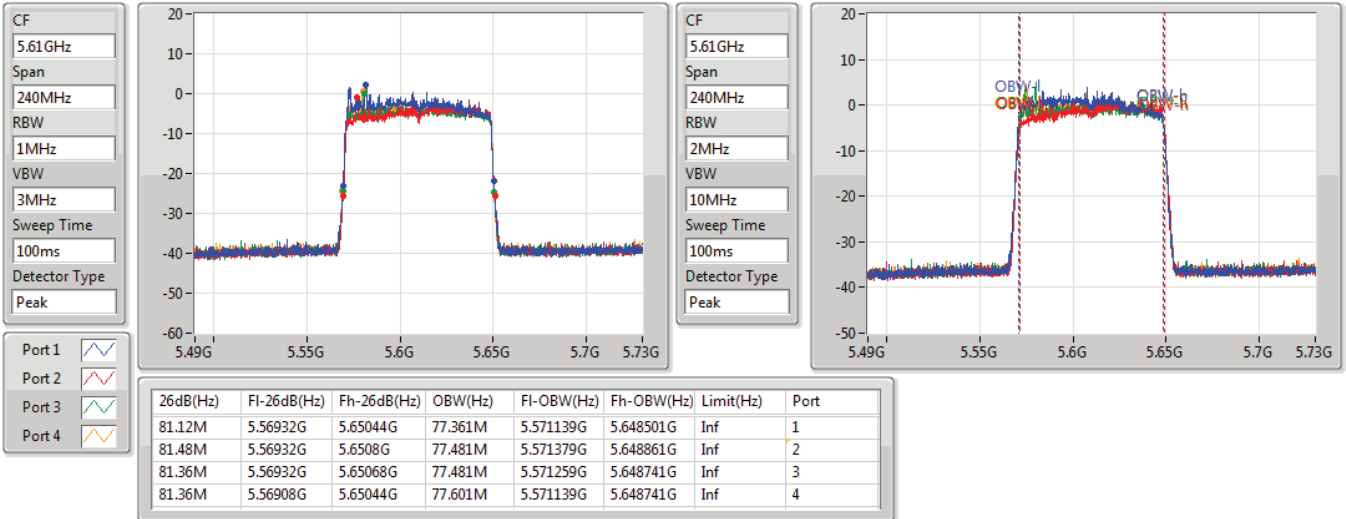
5530MHz

24/12/2021

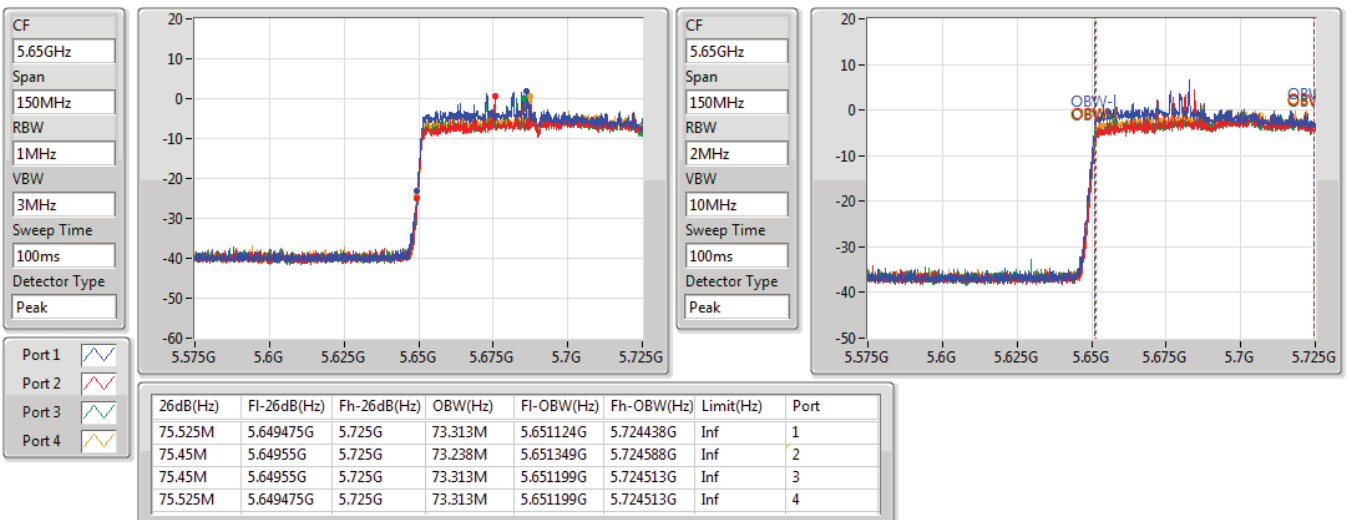


802.11ax HEW80-BF_Nss1,(MCS0)_4TX
EBW
5610MHz

24/12/2021

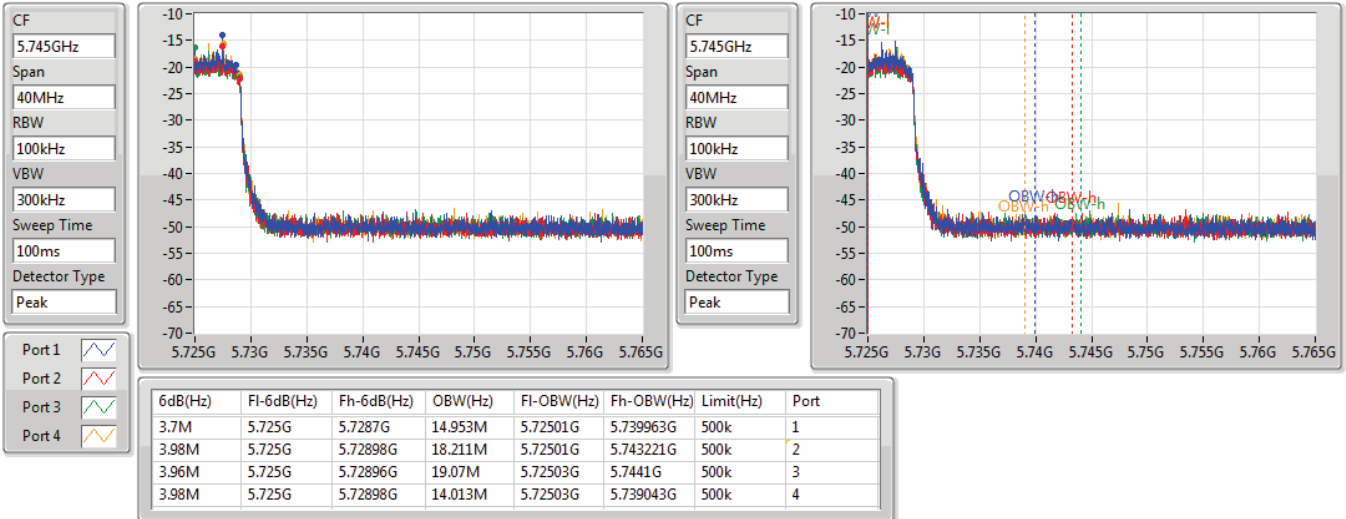

802.11ax HEW80-BF_Nss1,(MCS0)_4TX
EBW
5690MHz Straddle 5.47-5.725GHz

24/12/2021

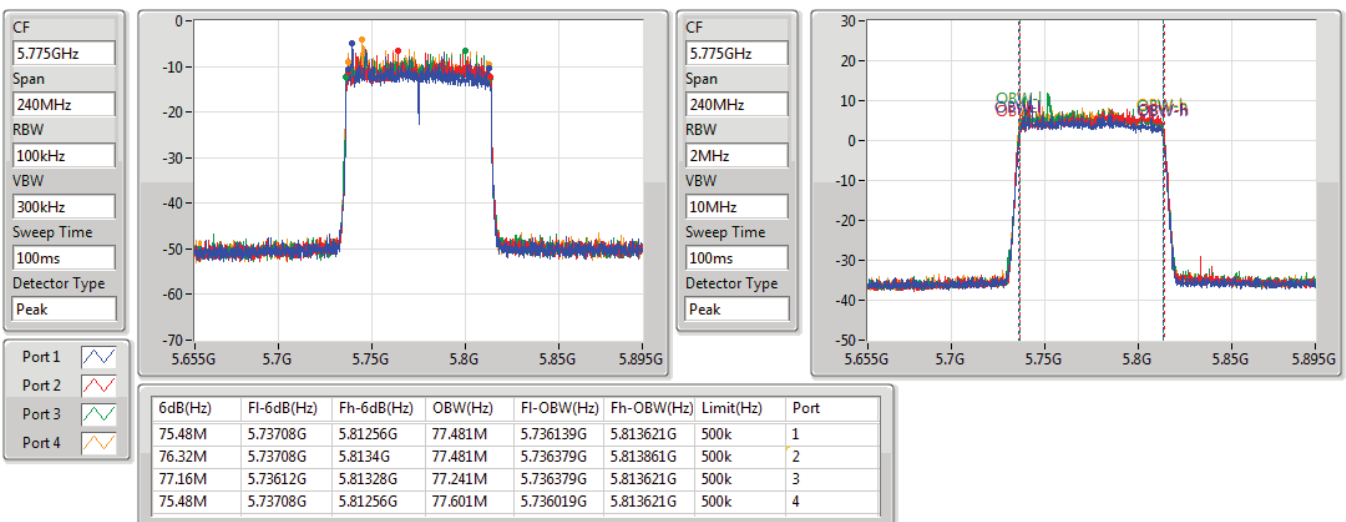


802.11ax HEW80-BF_Nss1,(MCS0)_4TX
EBW
5690MHz Straddle 5.725-5.85GHz

24/12/2021

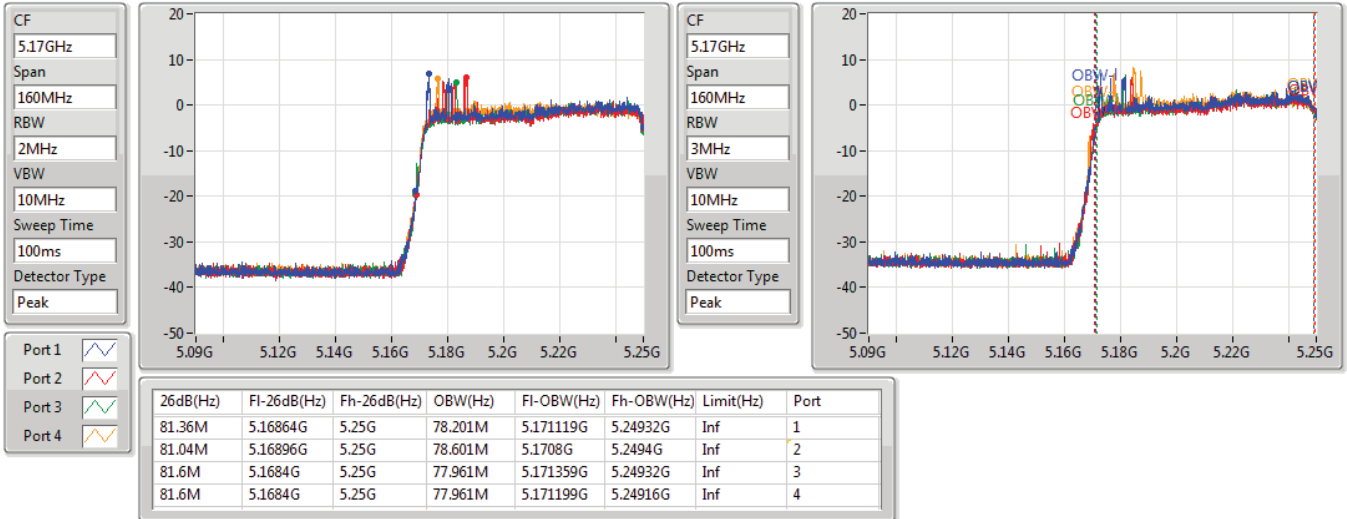

802.11ax HEW80-BF_Nss1,(MCS0)_4TX
EBW
5775MHz

24/12/2021

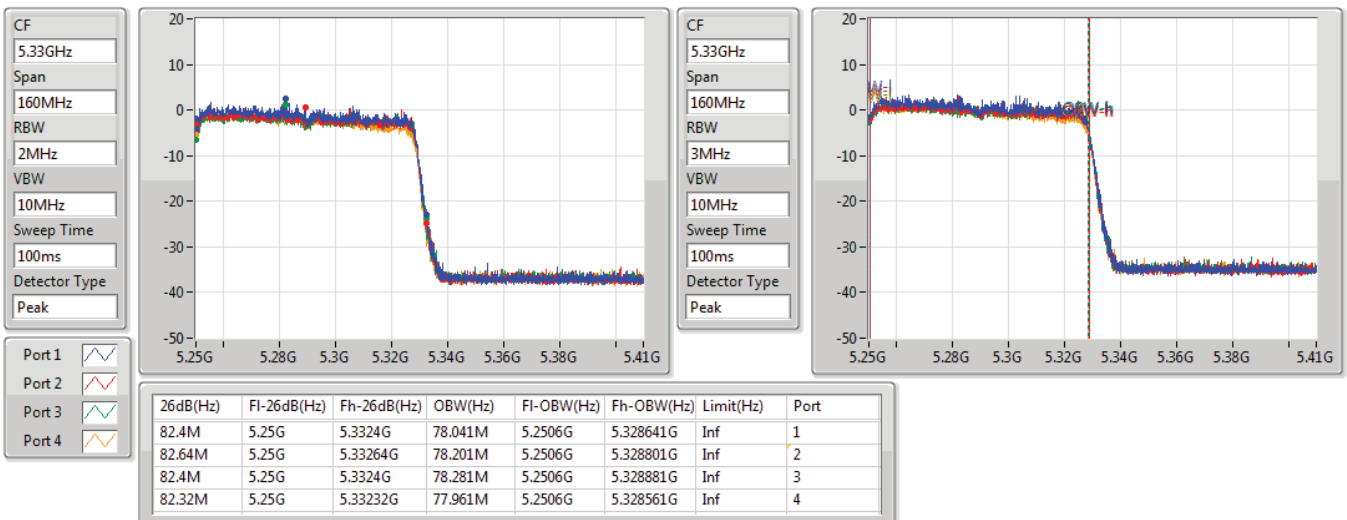


802.11ax HEW160-BF_Nss1,(MCS0)_4TX
EBW
5250MHz Straddle 5.15-5.25GHz

24/12/2021


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

24/12/2021

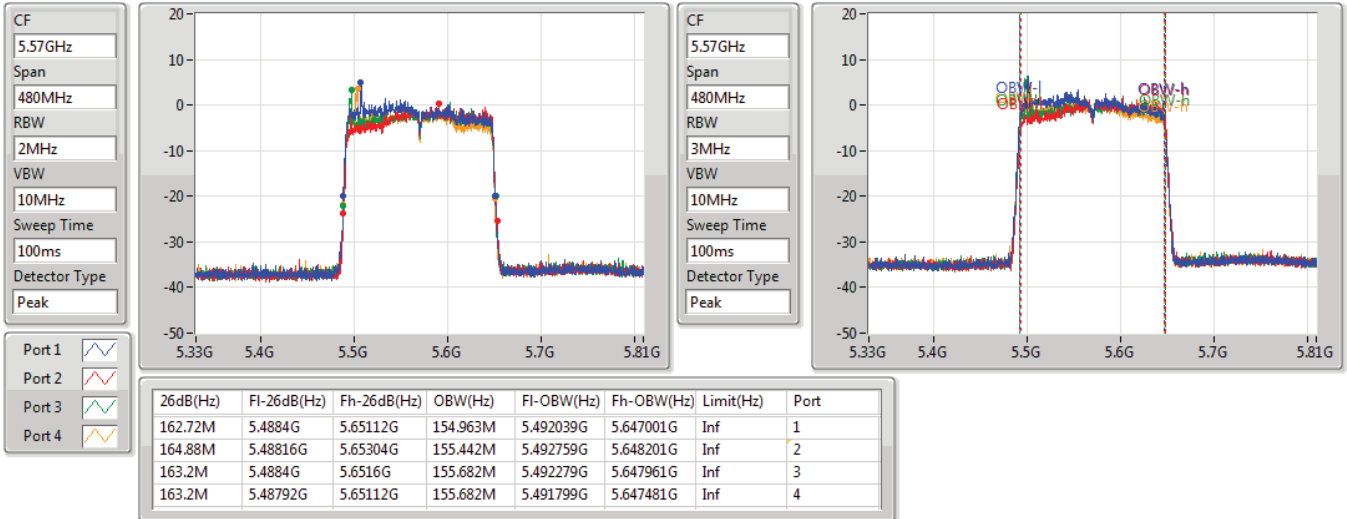


802.11ax HEW160-BF_Nss1,(MCS0)_4TX

EBW

5570MHz

24/12/2021



**Summary**

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.47-5.725GHz	-	-	-	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	21.69M	19.1M	19M1D1D	15.36M	14.468M
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	40.38M	38.381M	38M4D1D	35.14M	33.758M
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	81.84M	77.601M	77M6D1D	75.675M	73.238M
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	210.72M	155.922M	156MD1D	164.64M	154.723M
5.725-5.85GHz	-	-	-	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	18.99M	19.1M	19M1D1D	4.46M	4.598M
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	37.62M	37.781M	37M8D1D	3.7M	4.098M
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	76.68M	77.721M	77M7D1D	3.7M	7.856M

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	-	-	-	-	-	-	-	-	-	-
5500MHz	Pass	Inf	21.48M	19.04M	21.39M	19.07M	21.51M	19.1M	21.3M	19.1M
5580MHz	Pass	Inf	21.48M	19.07M	21.03M	18.951M	21.03M	19.07M	21.69M	19.07M
5700MHz	Pass	Inf	21.39M	19.01M	21.21M	19.04M	21.51M	19.01M	21.48M	19.01M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	15.36M	14.528M	15.9M	14.468M	15.795M	14.588M	15.525M	14.573M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	4.56M	4.598M	4.52M	4.618M	4.46M	4.618M	4.48M	4.598M
5745MHz	Pass	500k	18.72M	19.01M	18.72M	19.04M	18.99M	19.1M	18.93M	19.07M
5785MHz	Pass	500k	18.69M	18.861M	17.88M	19.04M	18.9M	19.07M	18.93M	19.1M
5825MHz	Pass	500k	18.87M	19.04M	18.81M	19.07M	18.99M	18.981M	17.49M	19.04M
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5510MHz	Pass	Inf	39.84M	37.781M	40.02M	38.021M	39.54M	38.201M	40.02M	37.661M
5550MHz	Pass	Inf	39.66M	38.381M	39.96M	38.021M	39.48M	38.021M	40.38M	37.421M
5670MHz	Pass	Inf	40.14M	37.781M	40.08M	37.901M	40.38M	37.781M	39.96M	37.841M
5710MHz Straddle 5.47-5.725GHz	Pass	Inf	35.49M	33.758M	35.175M	33.758M	35.175M	33.793M	35.14M	33.793M
5710MHz Straddle 5.725-5.85GHz	Pass	500k	4M	4.098M	3.76M	4.118M	3.7M	4.138M	3.78M	4.098M
5755MHz	Pass	500k	37.26M	37.781M	37.38M	37.721M	37.38M	37.781M	37.62M	37.781M
5795MHz	Pass	500k	36.84M	37.781M	37.26M	37.721M	37.56M	37.781M	37.14M	37.721M
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5530MHz	Pass	Inf	80.64M	77.481M	81.24M	77.481M	81.48M	77.361M	81.24M	77.361M
5610MHz	Pass	Inf	81.12M	77.361M	81.48M	77.601M	81.84M	77.481M	80.88M	77.481M
5690MHz Straddle 5.47-5.725GHz	Pass	Inf	75.75M	73.238M	75.9M	73.313M	75.975M	73.388M	75.675M	73.313M
5690MHz Straddle 5.725-5.85GHz	Pass	500k	3.7M	17.551M	3.9M	16.412M	3.94M	7.856M	3.94M	15.072M
5775MHz	Pass	500k	76.68M	77.361M	36.36M	77.601M	74.04M	77.721M	73.44M	77.481M
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5570MHz	Pass	Inf	164.64M	154.723M	164.64M	155.682M	210.48M	155.442M	210.72M	155.922M

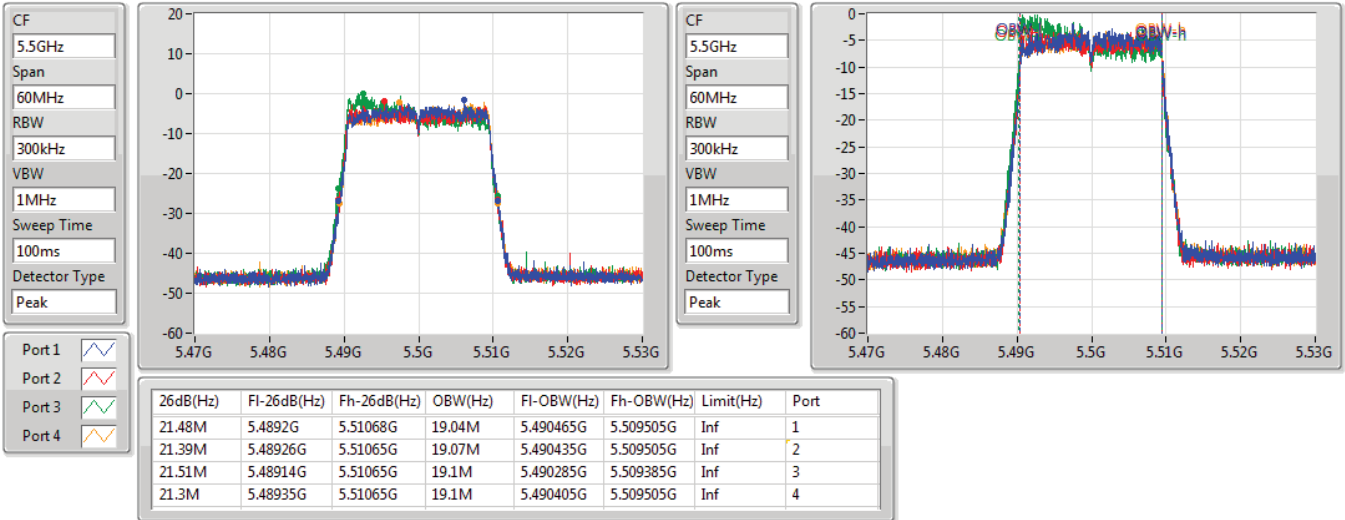
Port X-N dB = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band
Port X-OBW = Port X 99% occupied bandwidth

802.11ax HEW20-BF_Nss1,(MCS0)_4TX

EBW

5500MHz

25/12/2021

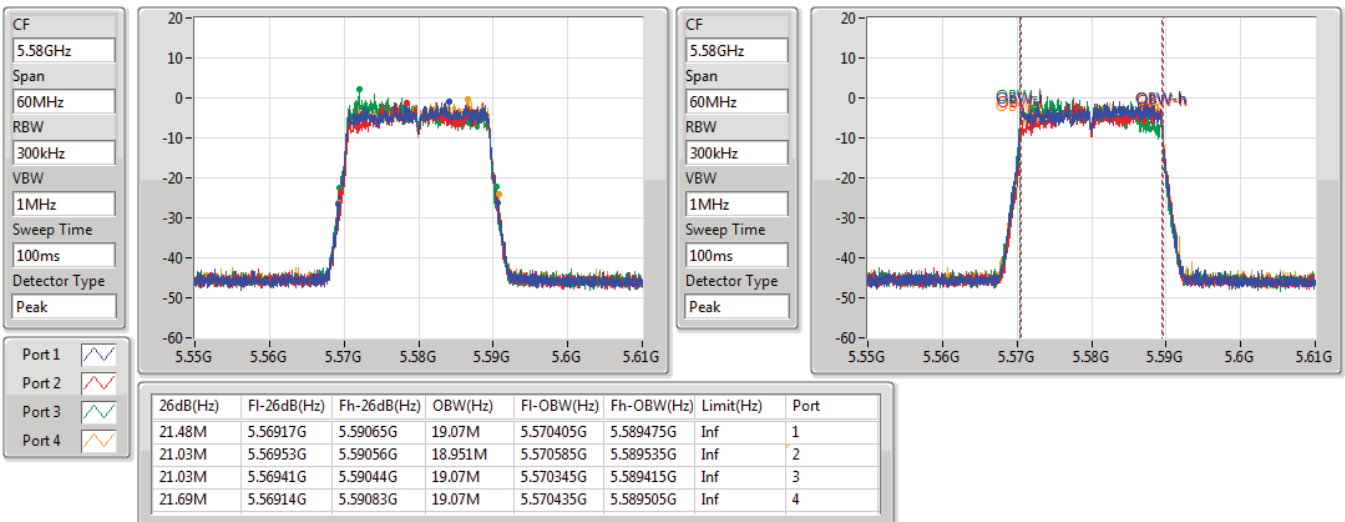


802.11ax HEW20-BF_Nss1,(MCS0)_4TX

EBW

5580MHz

25/12/2021

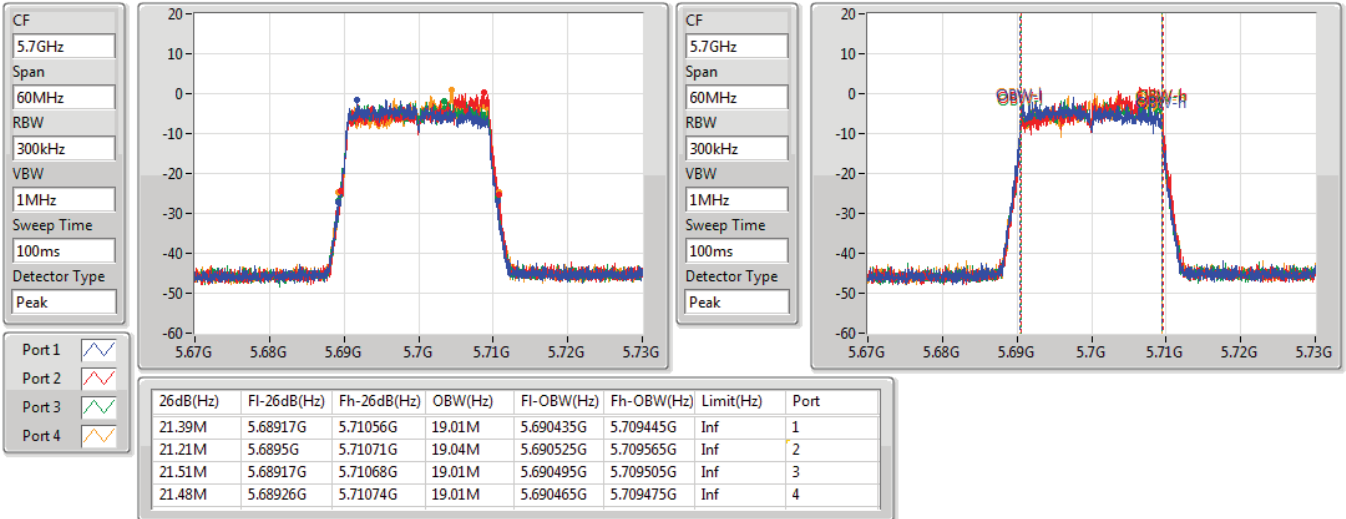


802.11ax HEW20-BF_Nss1,(MCS0)_4TX

EBW

5700MHz

25/12/2021

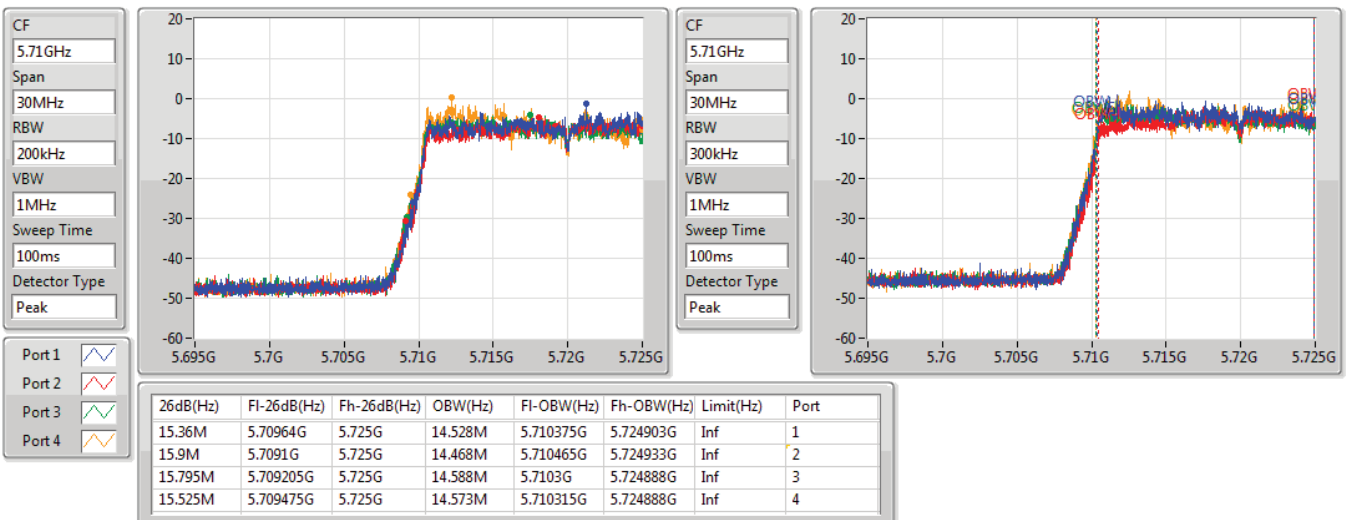


802.11ax HEW20-BF_Nss1,(MCS0)_4TX

EBW

5720MHz Straddle 5.47-5.725GHz

25/12/2021

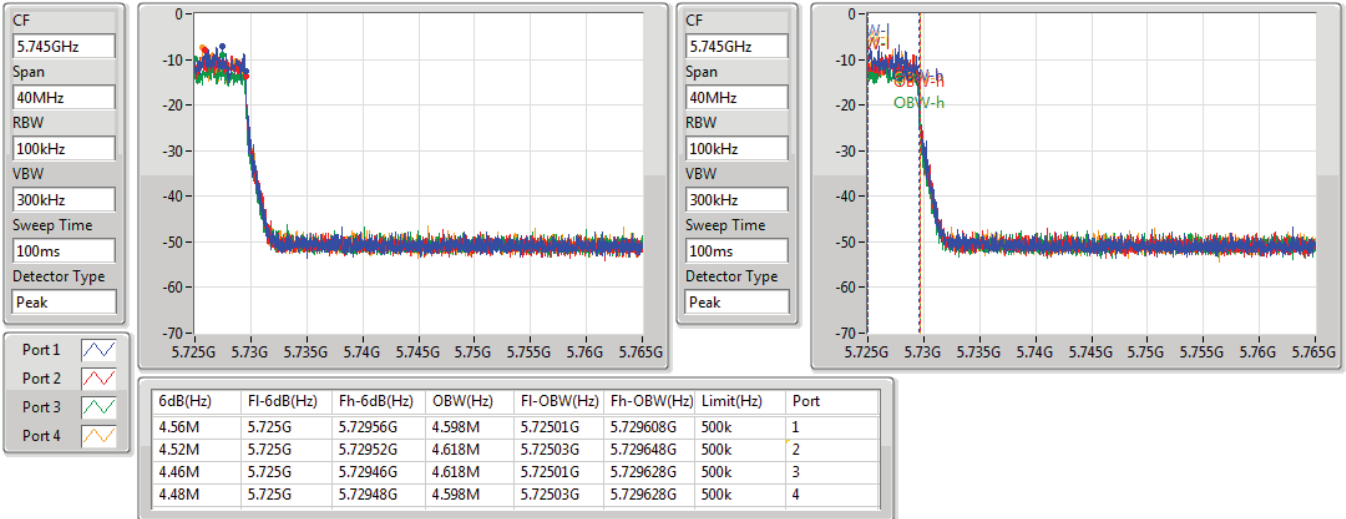


802.11ax HEW20-BF_Nss1,(MCS0)_4TX

EBW

5720MHz Straddle 5.725-5.85GHz

25/12/2021

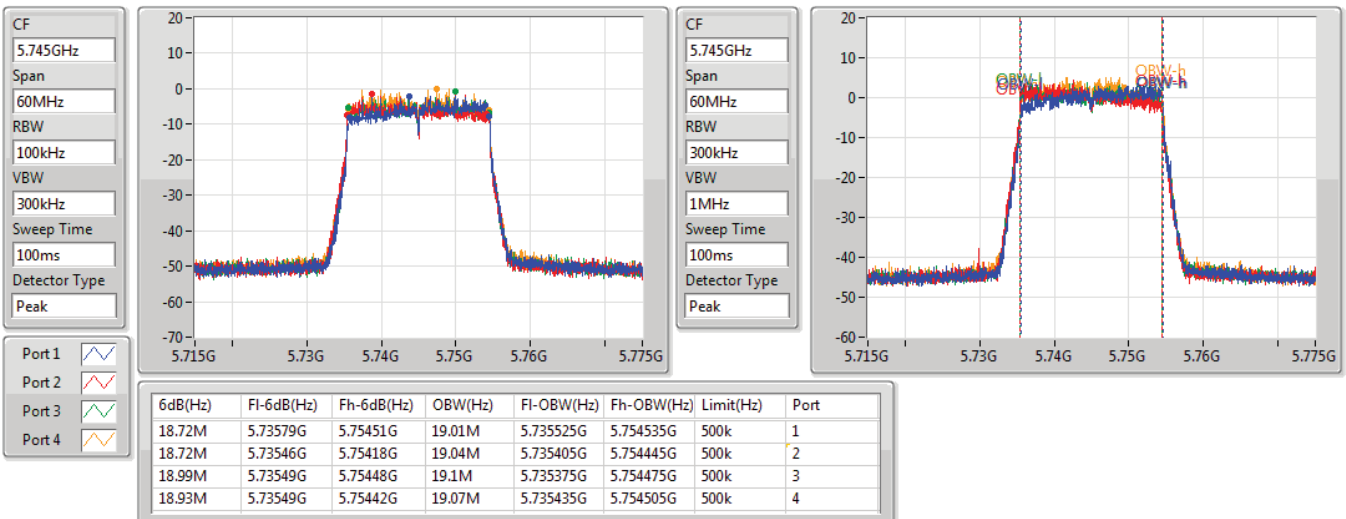


802.11ax HEW20-BF_Nss1,(MCS0)_4TX

EBW

5745MHz

25/12/2021

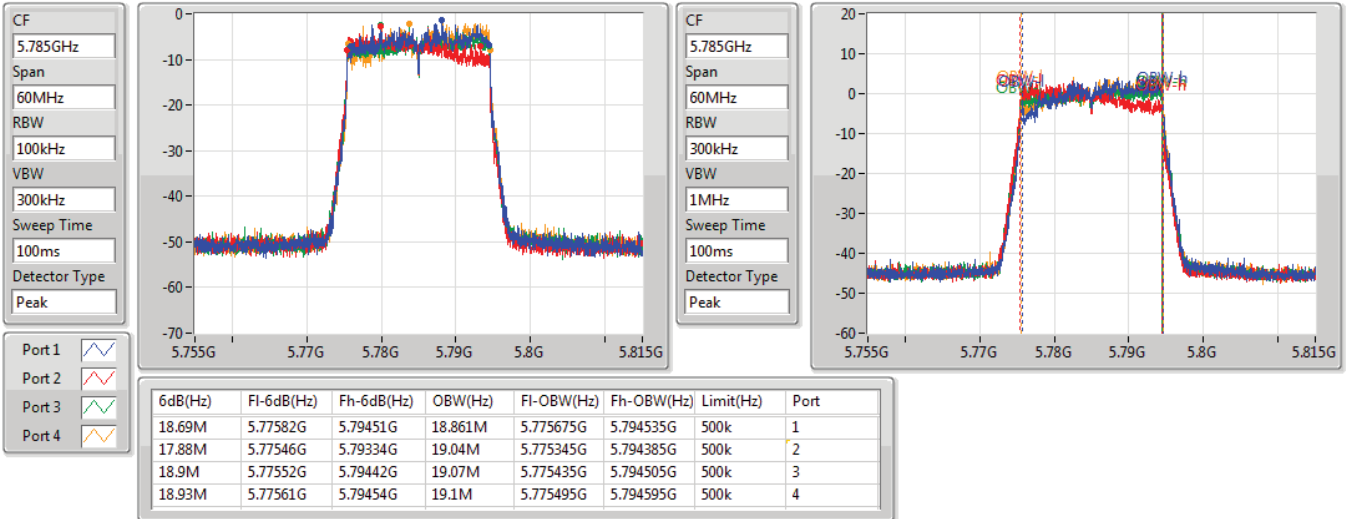


802.11ax HEW20-BF_Nss1,(MCS0)_4TX

EBW

5785MHz

25/12/2021

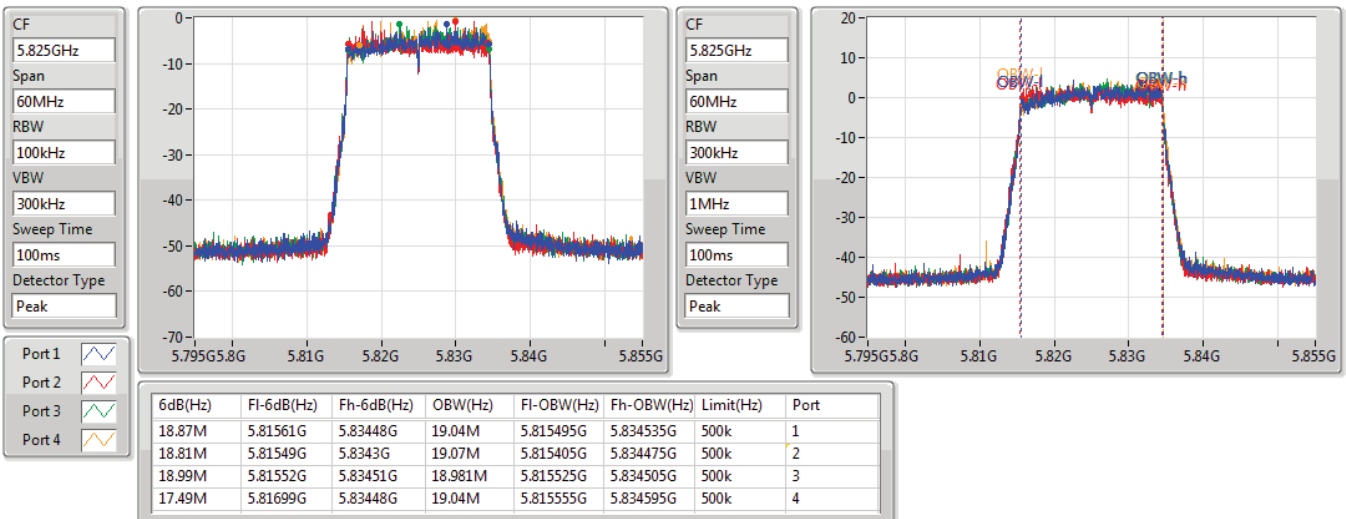


802.11ax HEW20-BF_Nss1,(MCS0)_4TX

EBW

5825MHz

25/12/2021

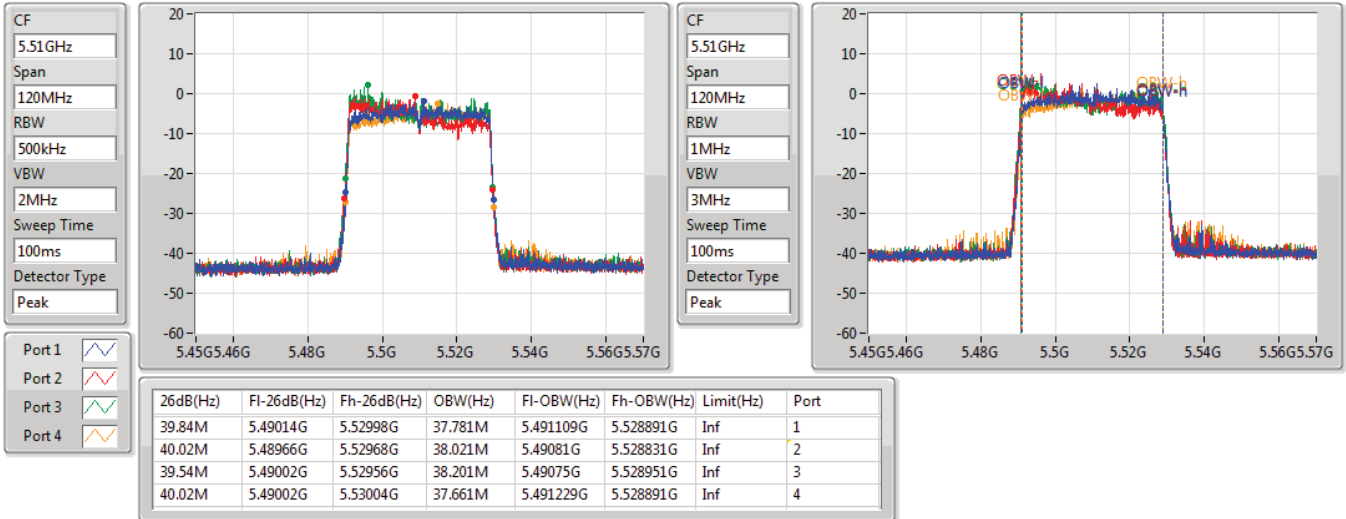


802.11ax HEW40-BF_Nss1,(MCS0)_4TX

EBW

5510MHz

25/12/2021

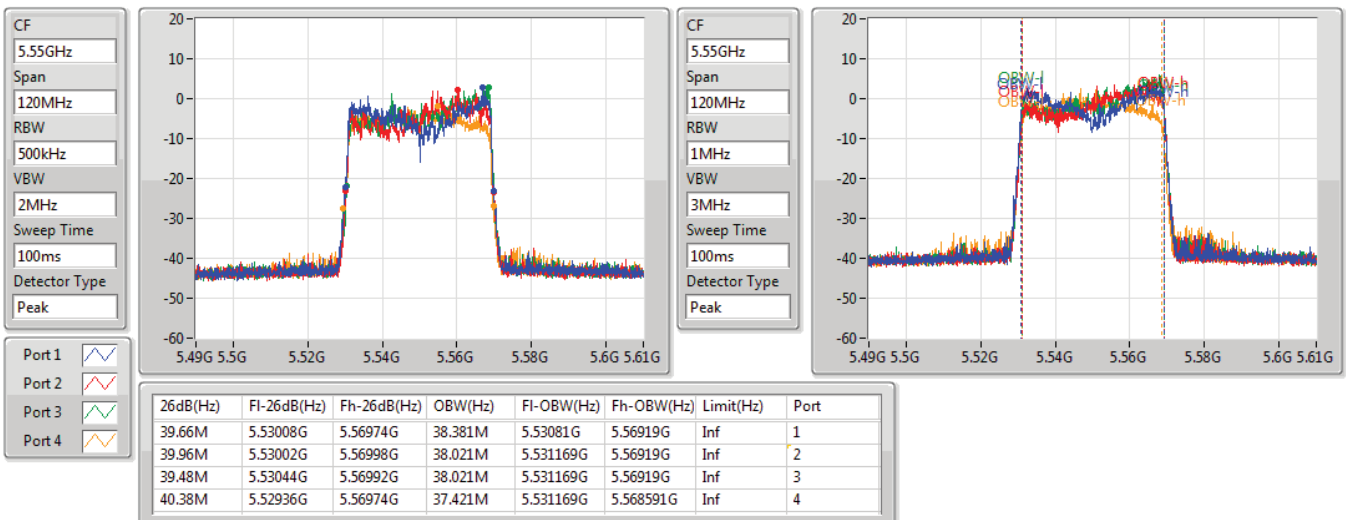


802.11ax HEW40-BF_Nss1,(MCS0)_4TX

EBW

5550MHz

25/12/2021

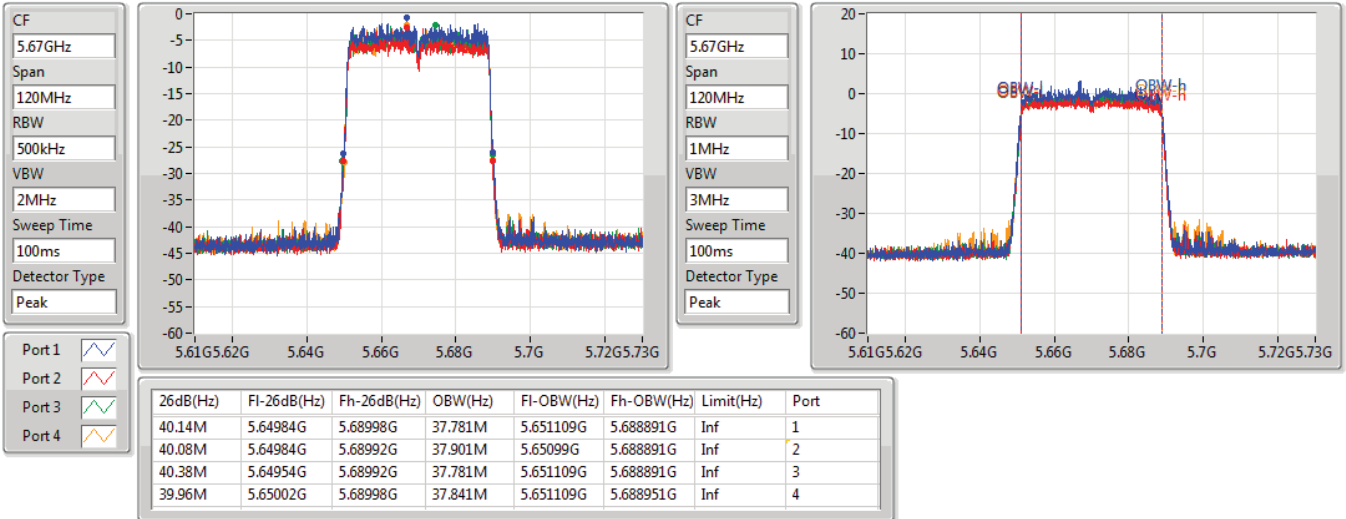


802.11ax HEW40-BF_Nss1,(MCS0)_4TX

EBW

5670MHz

25/12/2021

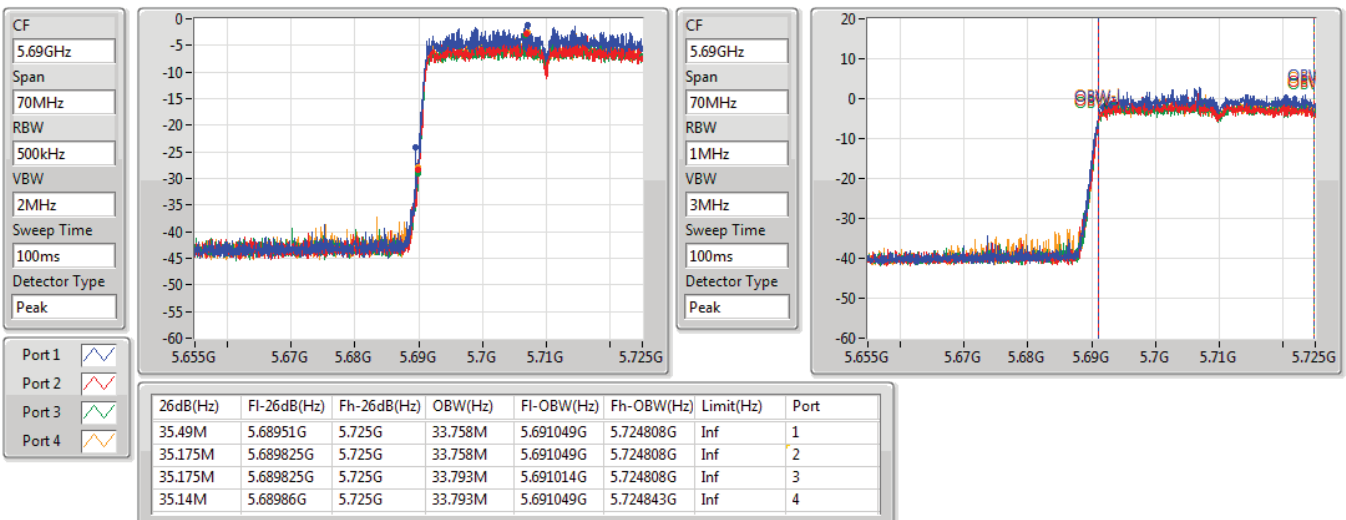


802.11ax HEW40-BF_Nss1,(MCS0)_4TX

EBW

5710MHz Straddle 5.47-5.725GHz

25/12/2021

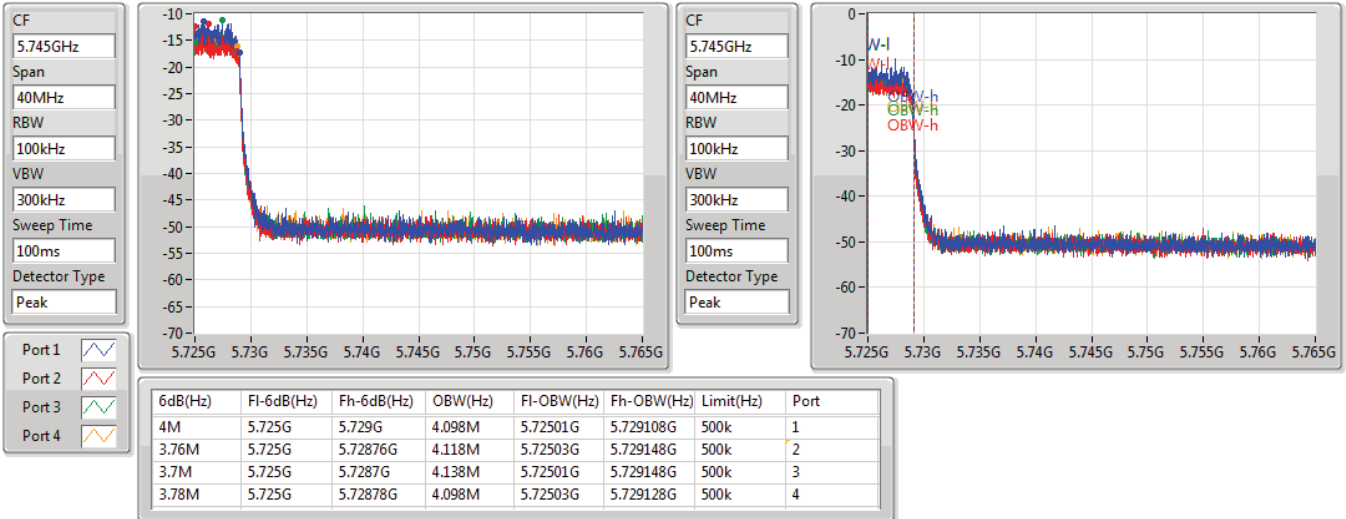


802.11ax HEW40-BF_Nss1,(MCS0)_4TX

EBW

5710MHz Straddle 5.725-5.85GHz

25/12/2021

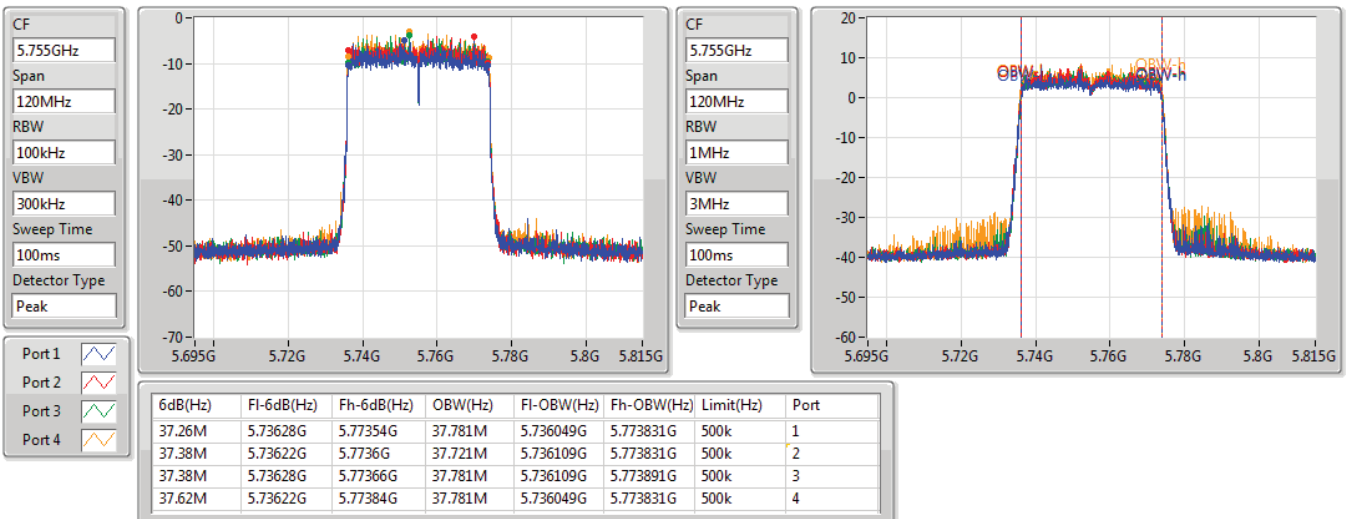


802.11ax HEW40-BF_Nss1,(MCS0)_4TX

EBW

5755MHz

25/12/2021

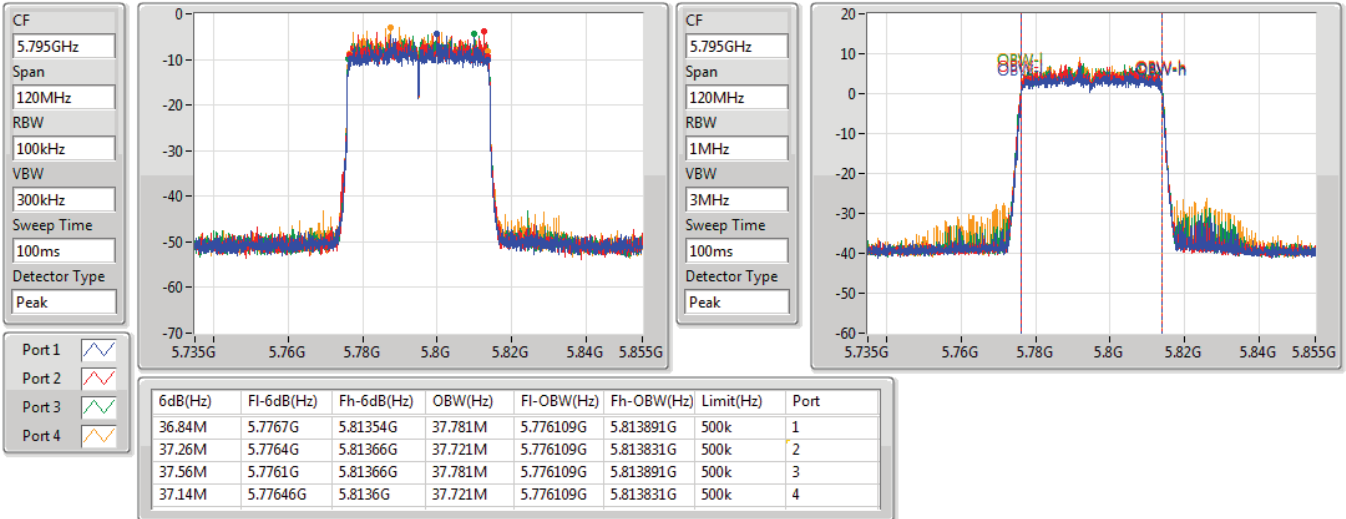


802.11ax HEW40-BF_Nss1,(MCS0)_4TX

EBW

5795MHz

25/12/2021

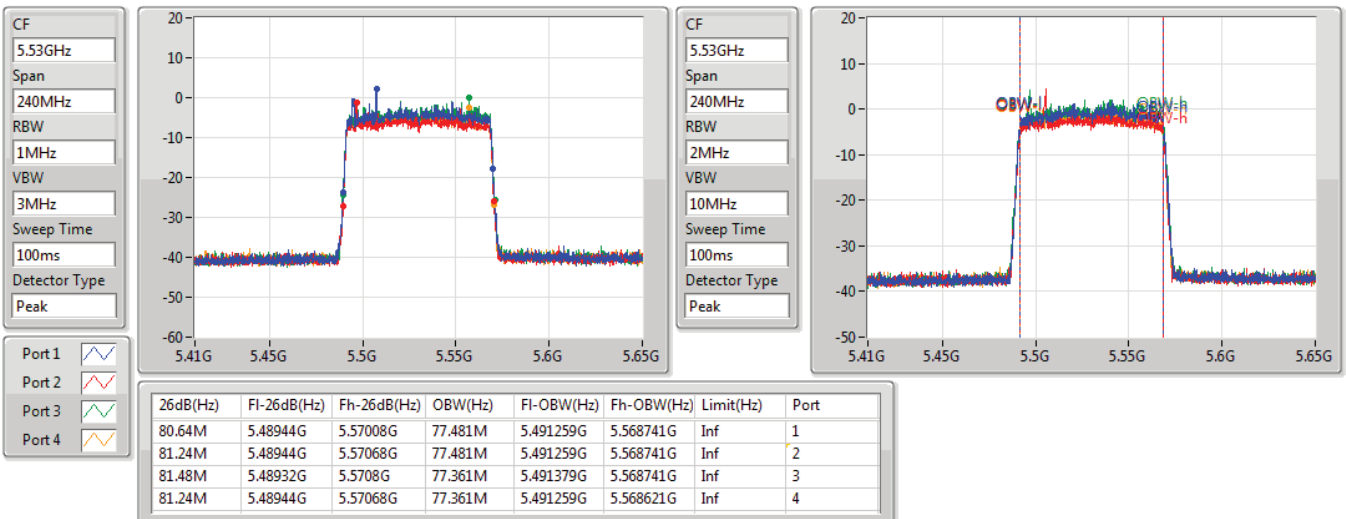


802.11ax HEW80-BF_Nss1,(MCS0)_4TX

EBW

5530MHz

25/12/2021

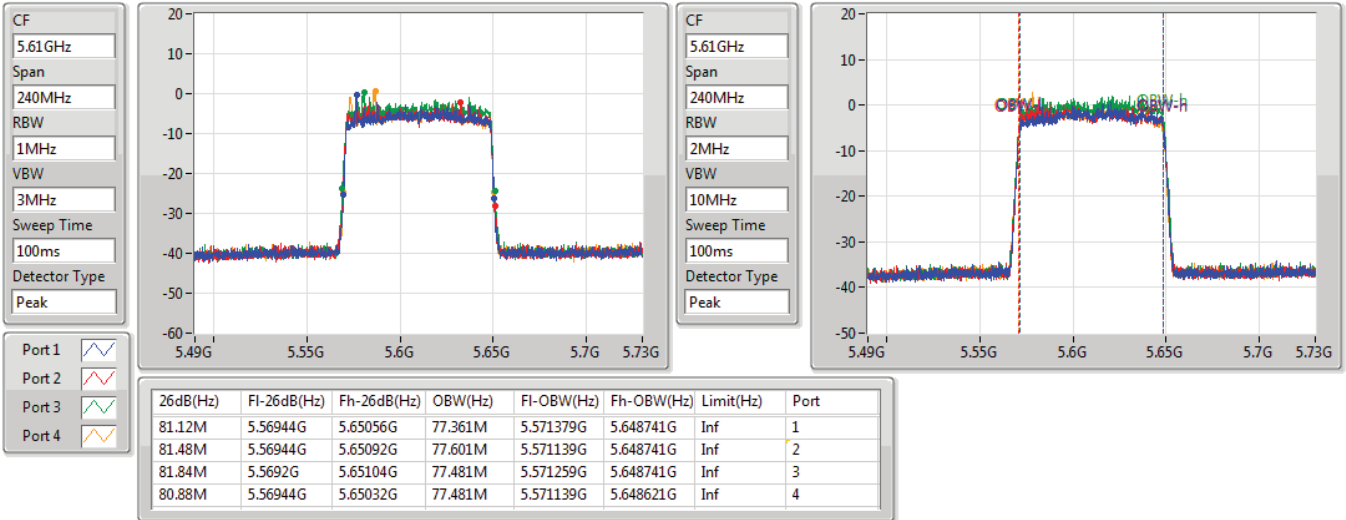


802.11ax HEW80-BF_Nss1,(MCS0)_4TX

EBW

5610MHz

25/12/2021

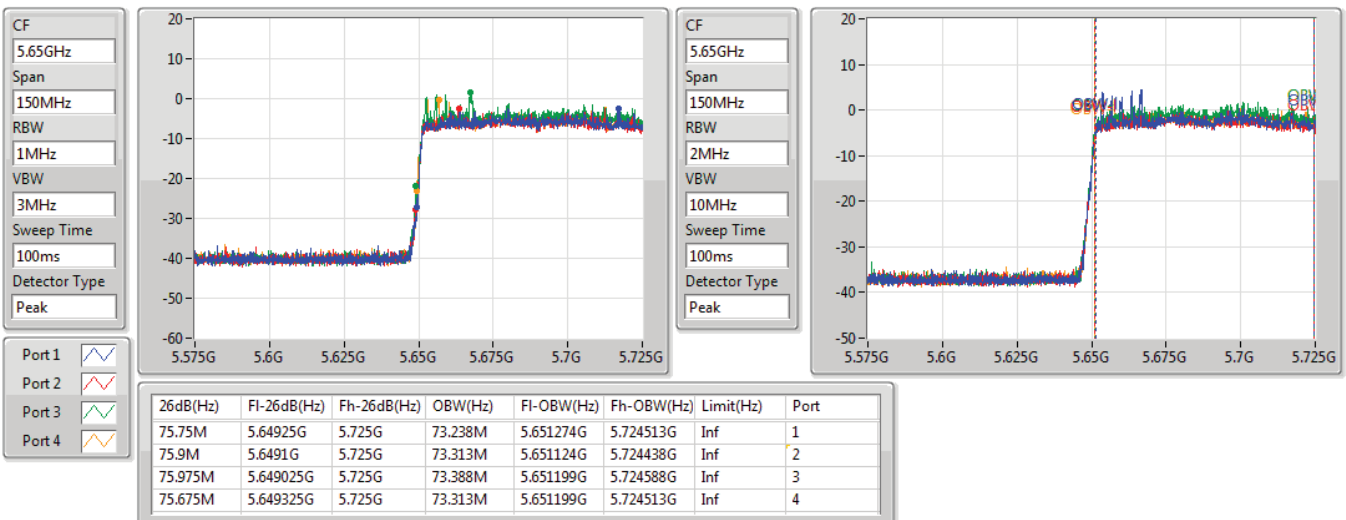


802.11ax HEW80-BF_Nss1,(MCS0)_4TX

EBW

5690MHz Straddle 5.47-5.725GHz

25/12/2021

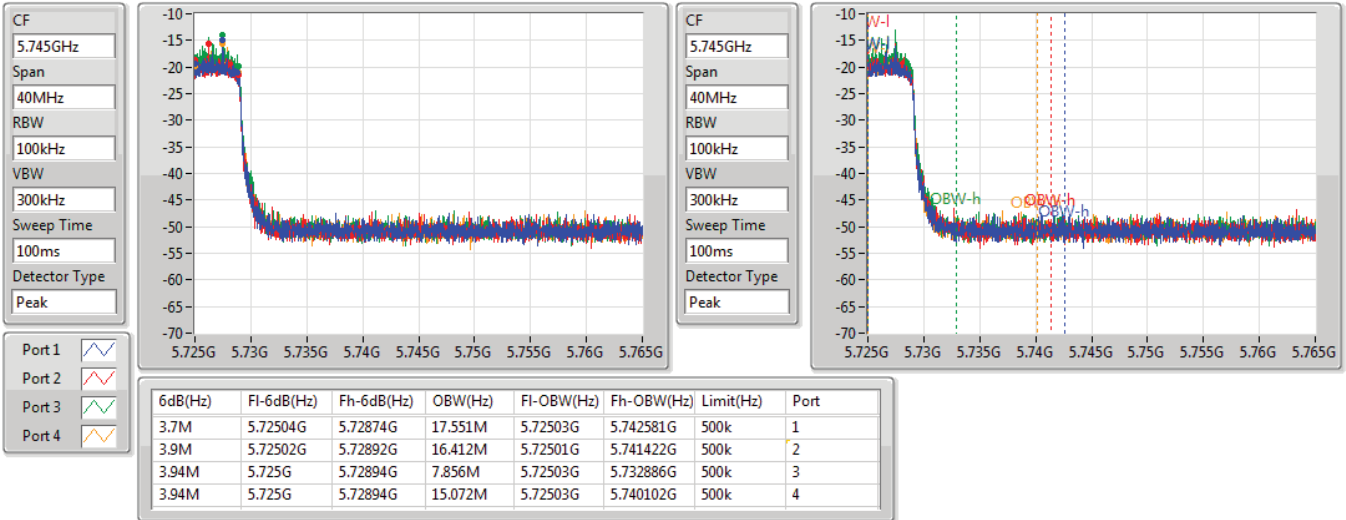


802.11ax HEW80-BF_Nss1,(MCS0)_4TX

EBW

5690MHz Straddle 5.725-5.85GHz

25/12/2021

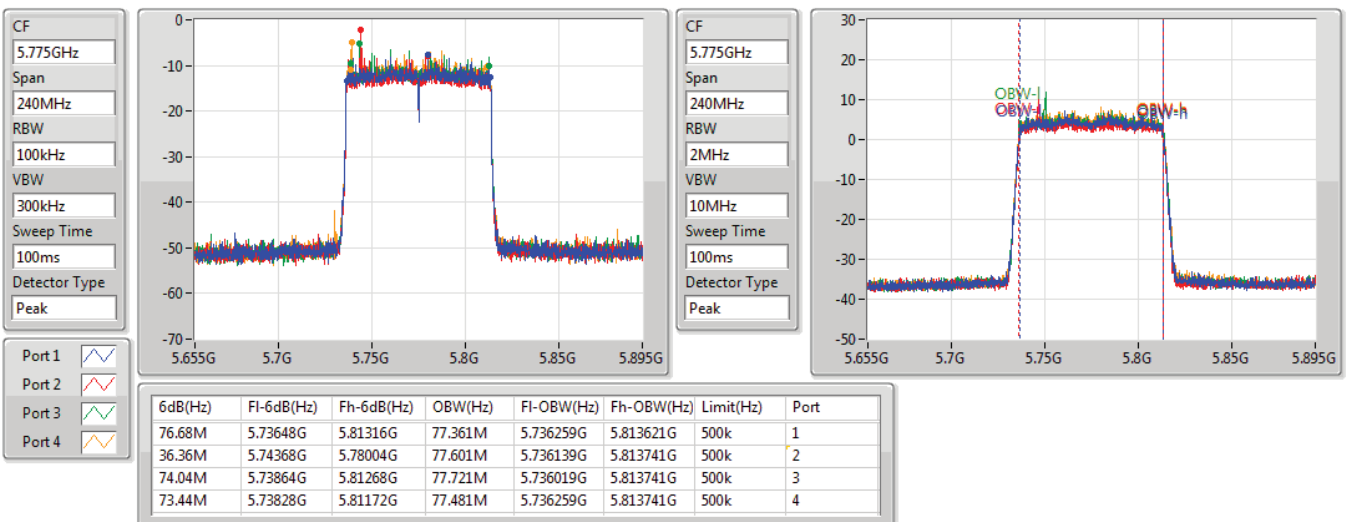


802.11ax HEW80-BF_Nss1,(MCS0)_4TX

EBW

5775MHz

25/12/2021

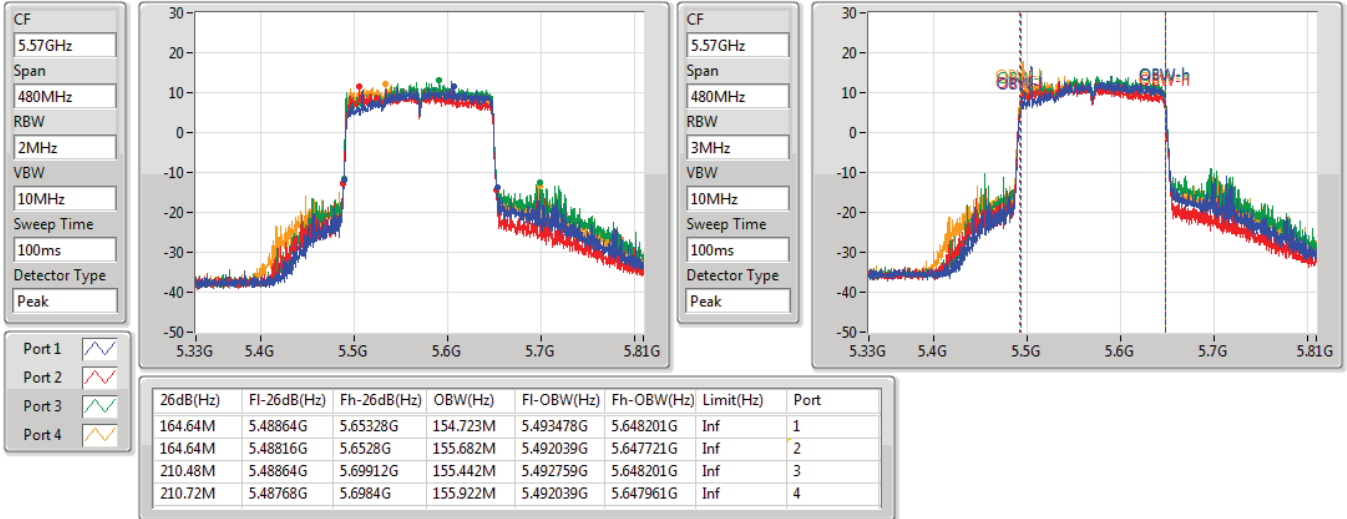


802.11ax HEW160-BF_Nss1,(MCS0)_4TX

EBW

5570MHz

25/12/2021



**Summary**

Mode	Total Power (dBm)	Total Power (W)	EIRP (dBm)	EIRP (W)
5.15-5.25GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	17.35	0.05433	30.35	1.08393
802.11ax HEW20_Nss1,(MCS0)_4TX	18.04	0.06368	31.04	1.27057
802.11ax HEW40_Nss1,(MCS0)_4TX	20.58	0.11429	33.58	2.28034
802.11ax HEW80_Nss1,(MCS0)_4TX	17.43	0.05534	30.43	1.10408
802.11ax HEW160_Nss1,(MCS0)_4TX	11.30	0.01349	24.30	0.26915
5.25-5.35GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	11.53	0.01422	24.53	0.28379
802.11ax HEW20_Nss1,(MCS0)_4TX	12.33	0.01710	25.33	0.34119
802.11ax HEW40_Nss1,(MCS0)_4TX	15.11	0.03243	28.11	0.64714
802.11ax HEW80_Nss1,(MCS0)_4TX	16.22	0.04188	29.22	0.83560
802.11ax HEW160_Nss1,(MCS0)_4TX	11.09	0.01285	24.09	0.25645
5.47-5.725GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	11.39	0.01377	24.39	0.27479
802.11ax HEW20_Nss1,(MCS0)_4TX	12.22	0.01667	25.22	0.33266
802.11ax HEW40_Nss1,(MCS0)_4TX	15.06	0.03206	28.06	0.63973
802.11ax HEW80_Nss1,(MCS0)_4TX	16.47	0.04436	29.47	0.88512
802.11ax HEW160_Nss1,(MCS0)_4TX	16.44	0.04406	29.44	0.87902
5.725-5.85GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	22.36	0.17219	35.36	3.43558
802.11ax HEW20_Nss1,(MCS0)_4TX	22.44	0.17539	35.44	3.49945
802.11ax HEW40_Nss1,(MCS0)_4TX	22.26	0.16827	35.26	3.35738
802.11ax HEW80_Nss1,(MCS0)_4TX	22.36	0.17219	35.36	3.43558



Average Power_Non-Beamforming_Radio 1

Appendix C.1

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	13.00	11.52	11.32	11.31	11.14	17.35	23.00	30.35	36.00
5200MHz	Pass	13.00	11.19	11.44	10.95	11.08	17.19	23.00	30.19	36.00
5240MHz	Pass	13.00	11.71	11.05	10.96	11.37	17.30	23.00	30.30	36.00
5260MHz	Pass	13.00	5.95	4.86	5.00	5.48	11.36	16.98	24.36	30.00
5300MHz	Pass	13.00	6.12	5.48	4.98	5.14	11.47	16.98	24.47	30.00
5320MHz	Pass	13.00	6.23	5.19	4.87	5.61	11.53	16.98	24.53	30.00
5500MHz	Pass	13.00	4.55	5.06	5.30	6.31	11.37	16.98	24.37	30.00
5580MHz	Pass	13.00	5.05	5.11	4.78	6.37	11.39	16.98	24.39	30.00
5700MHz	Pass	13.00	5.12	4.38	5.08	6.08	11.23	16.98	24.23	30.00
5720MHz Straddle 5.47-5.725GHz	Pass	13.00	4.36	2.56	3.14	4.26	9.67	15.90	22.67	28.90
5720MHz Straddle 5.725-5.85GHz	Pass	13.00	-2.07	-3.37	-2.91	-1.88	3.51	23.00	16.51	36.00
5745MHz	Pass	13.00	16.74	16.60	15.83	16.11	22.36	23.00	35.36	36.00
5785MHz	Pass	13.00	16.31	16.50	16.22	16.11	22.31	23.00	35.31	36.00
5825MHz	Pass	13.00	16.34	16.64	16.07	16.09	22.31	23.00	35.31	36.00
802.11ax HEW20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	13.00	12.00	11.98	11.48	11.76	17.83	23.00	30.83	36.00
5200MHz	Pass	13.00	12.15	11.80	12.16	11.95	18.04	23.00	31.04	36.00
5240MHz	Pass	13.00	12.15	11.54	11.56	11.90	17.82	23.00	30.82	36.00
5260MHz	Pass	13.00	6.34	5.36	5.23	6.08	11.80	16.98	24.80	30.00
5300MHz	Pass	13.00	6.70	6.11	5.75	6.02	12.18	16.98	25.18	30.00
5320MHz	Pass	13.00	6.88	6.16	5.80	6.32	12.33	16.98	25.33	30.00
5500MHz	Pass	13.00	5.78	5.75	5.55	7.44	12.22	16.98	25.22	30.00
5580MHz	Pass	13.00	5.68	6.12	5.95	6.89	12.20	16.98	25.20	30.00
5700MHz	Pass	13.00	5.89	4.80	5.94	6.94	11.98	16.98	24.98	30.00
5720MHz Straddle 5.47-5.725GHz	Pass	13.00	4.55	3.26	3.88	4.58	10.12	15.94	23.12	28.94
5720MHz Straddle 5.725-5.85GHz	Pass	13.00	-0.81	-1.94	-1.43	-0.71	4.83	23.00	17.83	36.00
5745MHz	Pass	13.00	16.73	16.83	15.74	16.20	22.42	23.00	35.42	36.00
5785MHz	Pass	13.00	16.32	16.44	16.22	16.70	22.44	23.00	35.44	36.00
5825MHz	Pass	13.00	16.30	16.36	15.75	16.20	22.18	23.00	35.18	36.00
802.11ax HEW40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	13.00	11.67	11.59	11.16	11.64	17.54	23.00	30.54	36.00
5230MHz	Pass	13.00	14.49	14.69	14.09	14.93	20.58	23.00	33.58	36.00
5270MHz	Pass	13.00	8.54	9.13	7.94	9.36	14.80	16.98	27.80	30.00
5310MHz	Pass	13.00	9.12	9.52	8.42	9.23	15.11	16.98	28.11	30.00
5510MHz	Pass	13.00	9.00	9.53	8.33	9.20	15.06	16.98	28.06	30.00
5550MHz	Pass	13.00	8.27	9.27	8.47	8.69	14.71	16.98	27.71	30.00
5670MHz	Pass	13.00	8.85	8.95	8.03	8.89	14.72	16.98	27.72	30.00
5710MHz Straddle 5.47-5.725GHz	Pass	13.00	7.81	8.29	7.30	8.02	13.89	16.98	26.89	30.00
5710MHz Straddle 5.725-5.85GHz	Pass	13.00	-2.15	-1.34	-2.46	-1.76	4.11	23.00	17.11	36.00
5755MHz	Pass	13.00	15.91	16.81	16.26	15.90	22.26	23.00	35.26	36.00
5795MHz	Pass	13.00	15.81	16.38	16.41	15.80	22.13	23.00	35.13	36.00
802.11ax HEW80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	13.00	11.53	11.23	11.36	11.52	17.43	23.00	30.43	36.00
5290MHz	Pass	13.00	10.29	10.03	9.91	10.55	16.22	16.98	29.22	30.00
5530MHz	Pass	13.00	10.22	11.24	9.77	10.44	16.47	16.98	29.47	30.00
5610MHz	Pass	13.00	10.74	10.02	9.74	10.29	16.23	16.98	29.23	30.00
5690MHz Straddle 5.47-5.725GHz	Pass	13.00	10.42	9.79	9.48	10.95	16.22	16.98	29.22	30.00
5690MHz Straddle 5.725-5.85GHz	Pass	13.00	-3.22	-3.55	-4.10	-2.78	2.63	23.00	15.63	36.00
5775MHz	Pass	13.00	15.44	16.31	16.50	16.96	22.36	23.00	35.36	36.00
802.11ax HEW160_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	13.00	5.35	4.94	4.86	5.90	11.30	23.00	24.30	36.00
5250MHz Straddle 5.25-5.35GHz	Pass	13.00	5.39	4.89	4.93	5.03	11.09	16.98	24.09	30.00
5570MHz	Pass	13.00	10.82	10.19	10.36	10.29	16.44	16.98	29.44	30.00



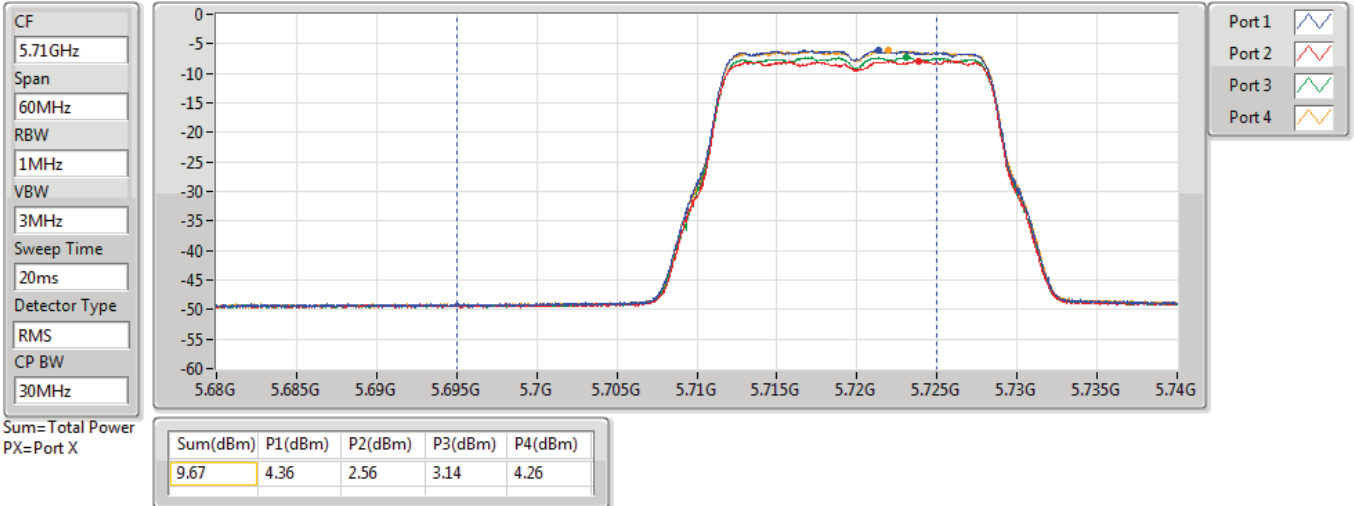
DG = Directional Gain; Port X = Port X output power

802.11a_Nss1,(6Mbps)_4TX

AV Power

5720MHz Straddle 5.47-5.725GHz_TnomVnom

20/12/2021

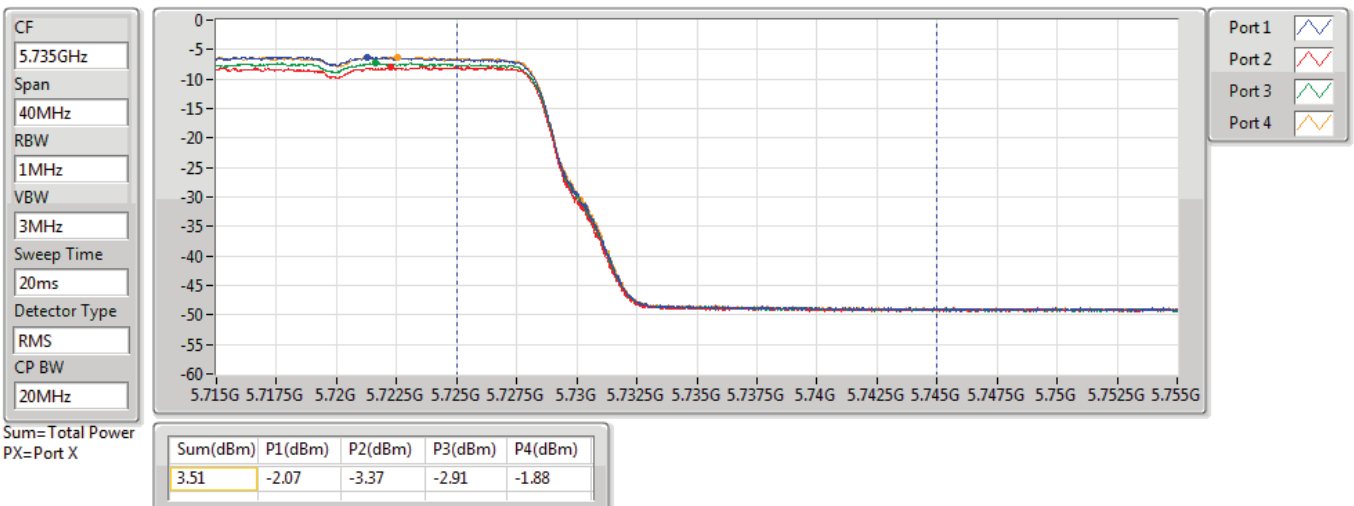


802.11a_Nss1,(6Mbps)_4TX

AV Power

5720MHz Straddle 5.725-5.85GHz_TnomVnom

20/12/2021



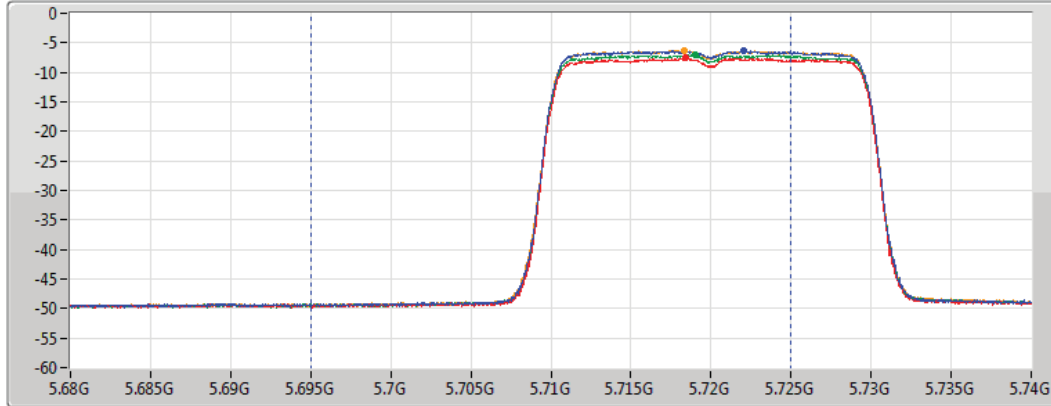
802.11ax HEW20_Nss1,(MCS0)_4TX

AV Power

5720MHz Straddle 5.47-5.725GHz_TnomVnom

20/12/2021

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)
10.12	4.55	3.26	3.88	4.58

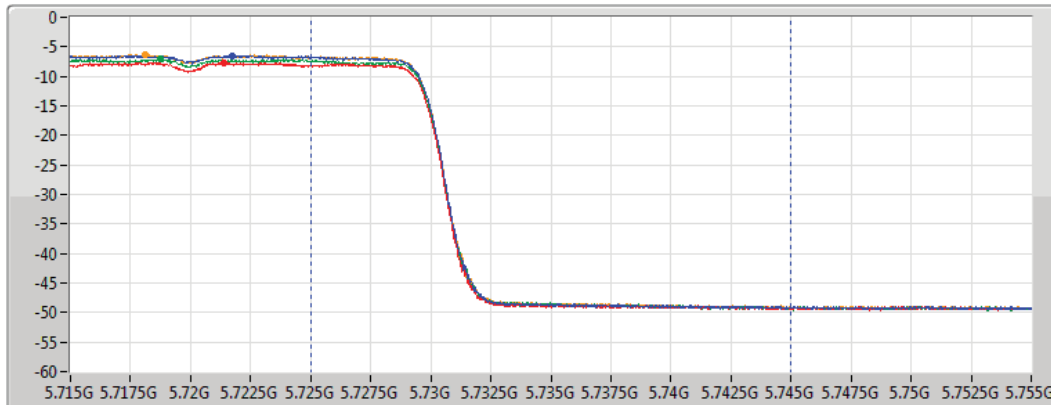
802.11ax HEW20_Nss1,(MCS0)_4TX

AV Power

5720MHz Straddle 5.725-5.85GHz_TnomVnom

20/12/2021

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

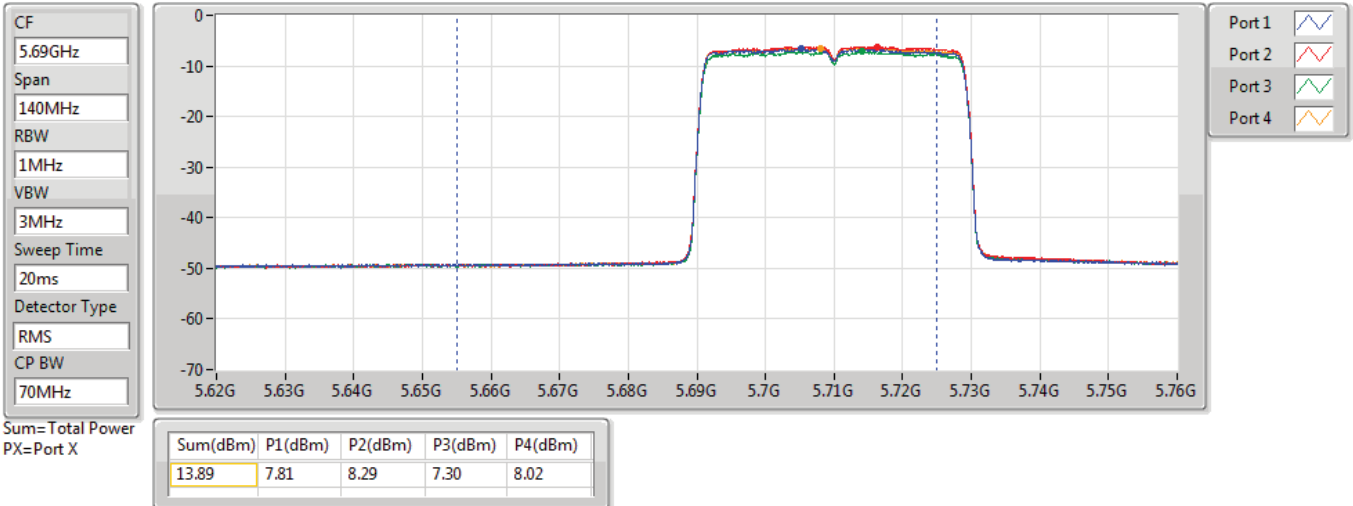
Sum(dBm)	P1(dBm)	P2(dBm)	P3(dBm)	P4(dBm)
4.83	-0.81	-1.94	-1.43	-0.71

802.11ax HEW40_Nss1,(MCS0)_4TX

AV Power

5710MHz Straddle 5.47-5.725GHz_TnomVnom

20/12/2021

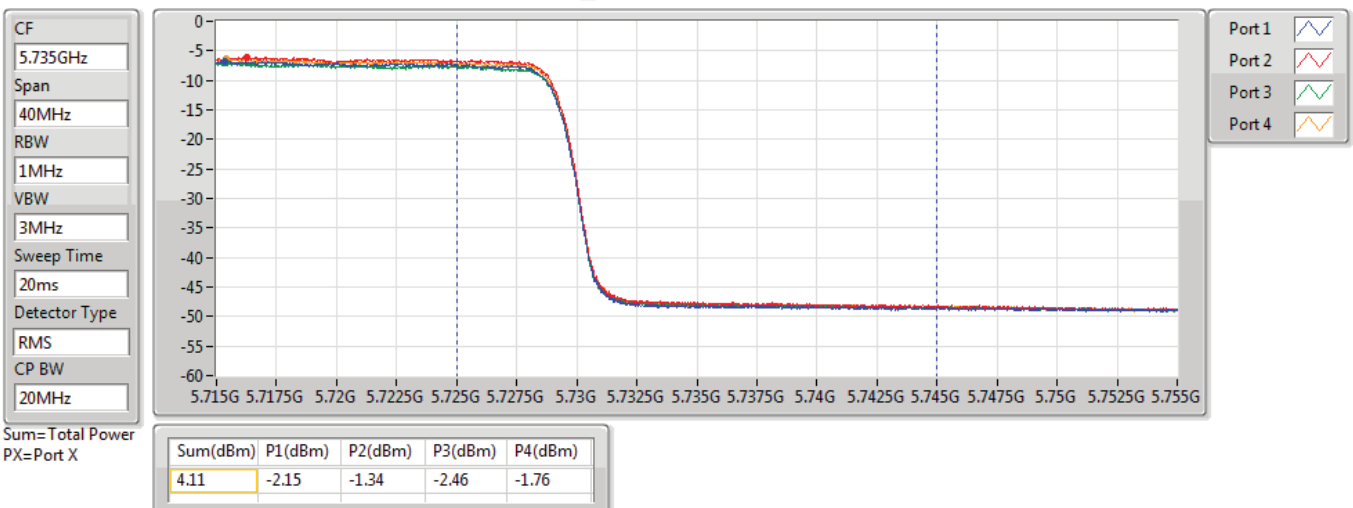


802.11ax HEW40_Nss1,(MCS0)_4TX

AV Power

5710MHz Straddle 5.725-5.85GHz_TnomVnom

20/12/2021



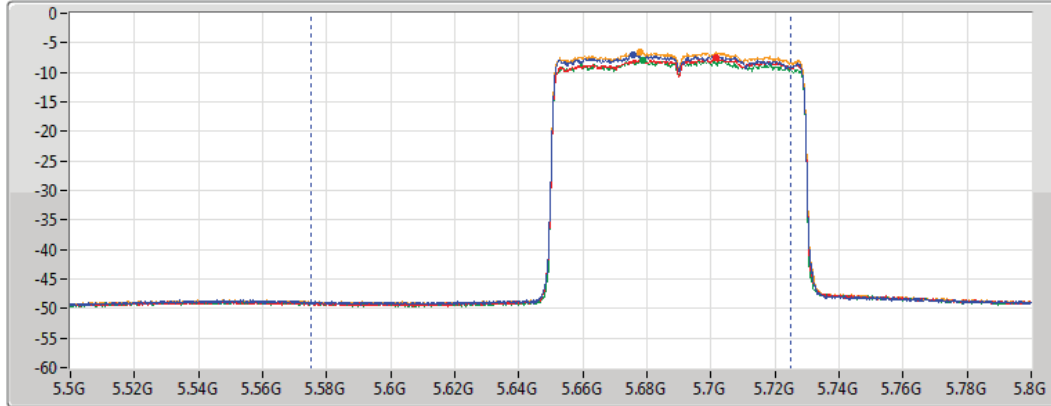
802.11ax HEW80_Nss1,(MCS0)_4TX

AV Power

5690MHz Straddle 5.47-5.725GHz_TnomVnom

20/12/2021

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)
16.22	10.42	9.79	9.48	10.95

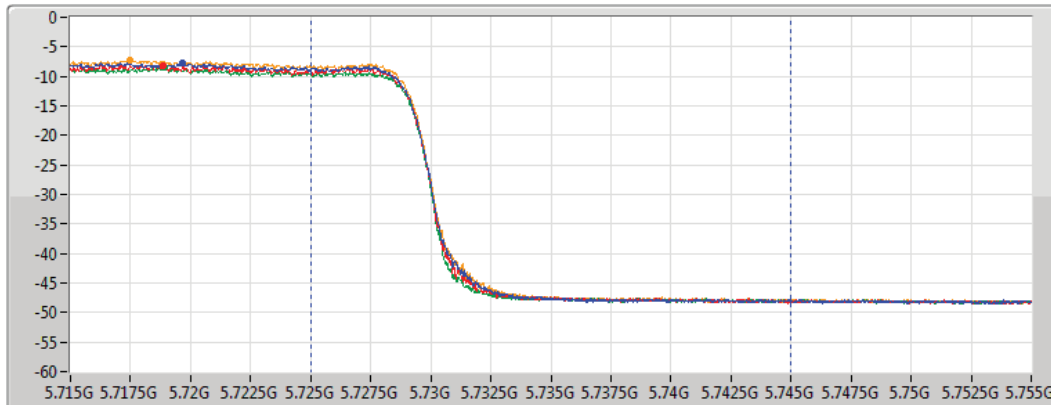
802.11ax HEW80_Nss1,(MCS0)_4TX

AV Power

5690MHz Straddle 5.725-5.85GHz_TnomVnom

20/12/2021

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

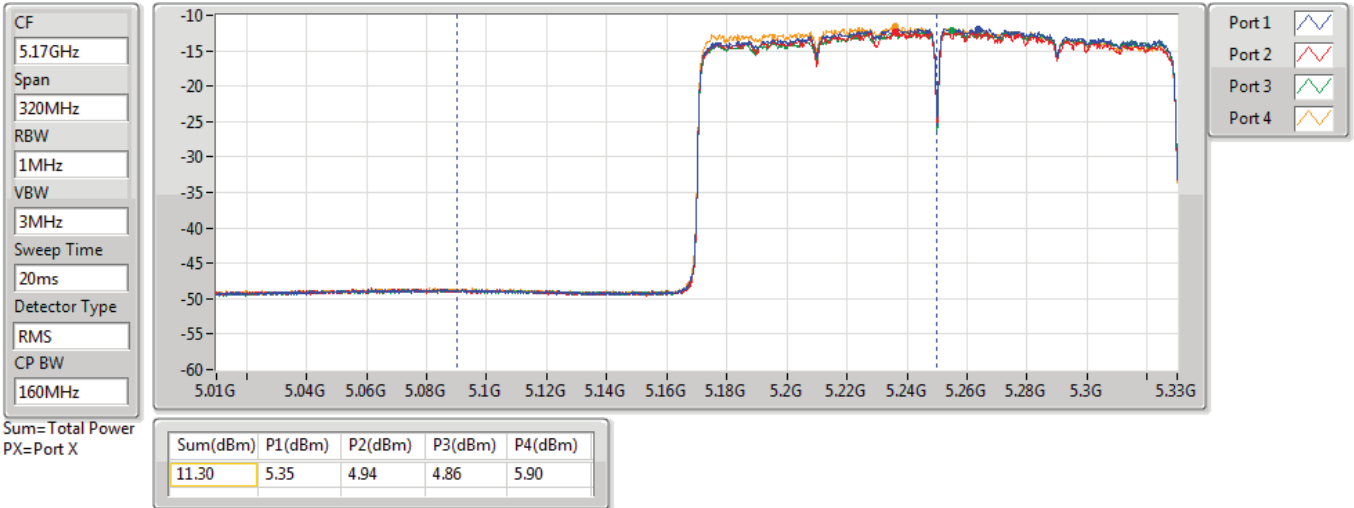
Sum(dBm)	P1(dBm)	P2(dBm)	P3(dBm)	P4(dBm)
2.63	-3.22	-3.55	-4.10	-2.78

802.11ax HEW160_Nss1,(MCS0)_4TX

AV Power

5250MHz Straddle 5.15-5.25GHz_TnomVnom

20/12/2021

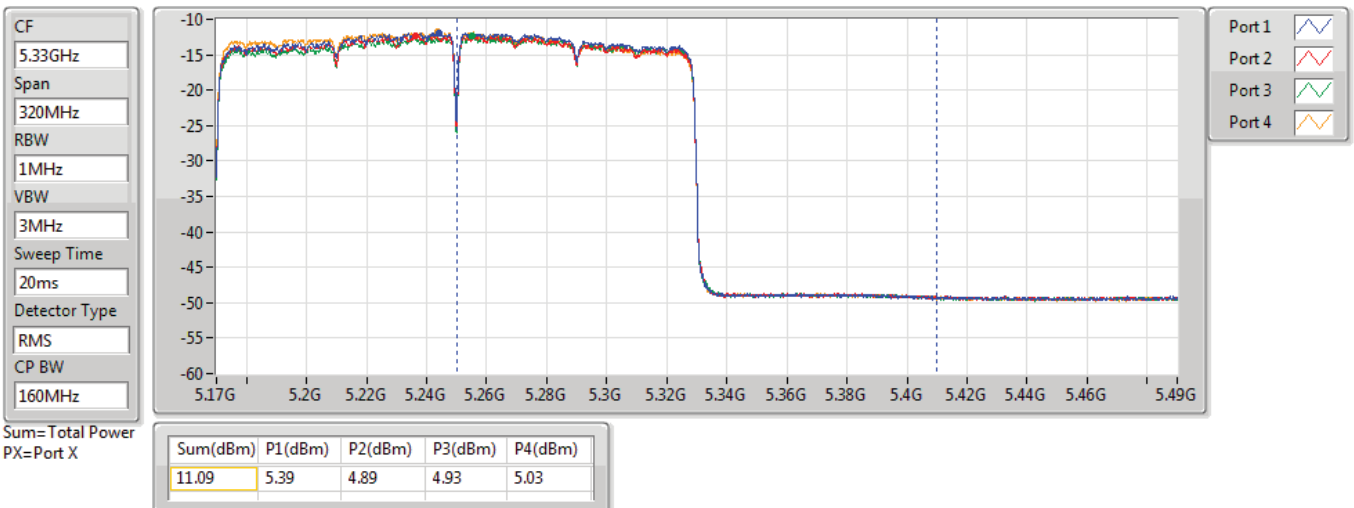


802.11ax HEW160_Nss1,(MCS0)_4TX

AV Power

5250MHz Straddle 5.25-5.35GHz_TnomVnom

20/12/2021



**Summary**

Mode	Total Power (dBm)	Total Power (W)	EIRP (dBm)	EIRP (W)
5.47-5.725GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	11.86	0.01535	24.86	0.30620
802.11ax HEW20_Nss1,(MCS0)_4TX	12.43	0.01750	25.43	0.34914
802.11ax HEW40_Nss1,(MCS0)_4TX	15.30	0.03388	28.30	0.67608
802.11ax HEW80_Nss1,(MCS0)_4TX	16.42	0.04385	29.42	0.87498
802.11ax HEW160_Nss1,(MCS0)_4TX	16.25	0.04217	29.25	0.84140
5.725-5.85GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	22.42	0.17458	35.42	3.48337
802.11ax HEW20_Nss1,(MCS0)_4TX	22.41	0.17418	35.41	3.47536
802.11ax HEW40_Nss1,(MCS0)_4TX	22.38	0.17298	35.38	3.45144
802.11ax HEW80_Nss1,(MCS0)_4TX	21.99	0.15812	34.99	3.15500



Average Power_Non-Beamforming_Radio 2

Appendix C.2

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	-	-	-	-	-	-	-	-	-	-
5500MHz	Pass	13.00	6.10	5.45	5.86	5.89	11.85	16.98	24.85	30.00
5580MHz	Pass	13.00	6.03	5.39	5.66	5.94	11.78	16.98	24.78	30.00
5700MHz	Pass	13.00	5.79	6.01	5.49	6.06	11.86	16.98	24.86	30.00
5720MHz Straddle 5.47-5.725GHz	Pass	13.00	4.35	3.97	3.82	4.03	10.07	15.92	23.07	28.92
5720MHz Straddle 5.725-5.85GHz	Pass	13.00	-2.05	-2.03	-2.42	-2.15	3.86	23.00	16.86	36.00
5745MHz	Pass	13.00	15.61	15.14	15.68	14.88	21.36	23.00	34.36	36.00
5785MHz	Pass	13.00	16.55	16.65	16.18	16.21	22.42	23.00	35.42	36.00
5825MHz	Pass	13.00	15.88	16.68	16.17	16.54	22.35	23.00	35.35	36.00
802.11ax HEW20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5500MHz	Pass	13.00	6.57	6.54	6.12	6.41	12.43	16.98	25.43	30.00
5580MHz	Pass	13.00	6.75	5.88	6.09	6.42	12.32	16.98	25.32	30.00
5700MHz	Pass	13.00	6.21	6.45	6.08	6.42	12.31	16.98	25.31	30.00
5720MHz Straddle 5.47-5.725GHz	Pass	13.00	4.68	4.35	4.23	4.20	10.39	15.96	23.39	28.96
5720MHz Straddle 5.725-5.85GHz	Pass	13.00	-0.70	-0.95	-0.98	-1.09	5.09	23.00	18.09	36.00
5745MHz	Pass	13.00	16.15	16.50	15.81	16.24	22.20	23.00	35.20	36.00
5785MHz	Pass	13.00	16.28	16.37	15.73	16.31	22.20	23.00	35.20	36.00
5825MHz	Pass	13.00	16.49	16.51	16.07	16.48	22.41	23.00	35.41	36.00
802.11ax HEW40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5510MHz	Pass	13.00	9.67	9.31	9.01	9.10	15.30	16.98	28.30	30.00
5550MHz	Pass	13.00	9.47	8.41	8.88	8.40	14.83	16.98	27.83	30.00
5670MHz	Pass	13.00	9.92	8.23	8.96	8.92	15.07	16.98	28.07	30.00
5710MHz Straddle 5.47-5.725GHz	Pass	13.00	8.71	7.43	7.23	7.36	13.75	16.98	26.75	30.00
5710MHz Straddle 5.725-5.85GHz	Pass	13.00	-1.21	-2.38	-2.59	-2.40	3.91	23.00	16.91	36.00
5755MHz	Pass	13.00	15.61	16.42	16.23	16.28	22.17	23.00	35.17	36.00
5795MHz	Pass	13.00	15.63	16.47	16.39	16.86	22.38	23.00	35.38	36.00
802.11ax HEW80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5530MHz	Pass	13.00	10.68	9.64	10.26	10.20	16.23	16.98	29.23	30.00
5610MHz	Pass	13.00	10.62	10.25	11.07	9.53	16.42	16.98	29.42	30.00
5690MHz Straddle 5.47-5.725GHz	Pass	13.00	10.31	10.28	10.95	9.37	16.28	16.98	29.28	30.00
5690MHz Straddle 5.725-5.85GHz	Pass	13.00	-3.19	-3.54	-2.63	-4.40	2.63	23.00	15.63	36.00
5775MHz	Pass	13.00	15.97	15.39	16.54	15.91	21.99	23.00	34.99	36.00
802.11ax HEW160_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5570MHz	Pass	13.00	10.14	9.87	10.45	10.42	16.25	16.98	29.25	30.00

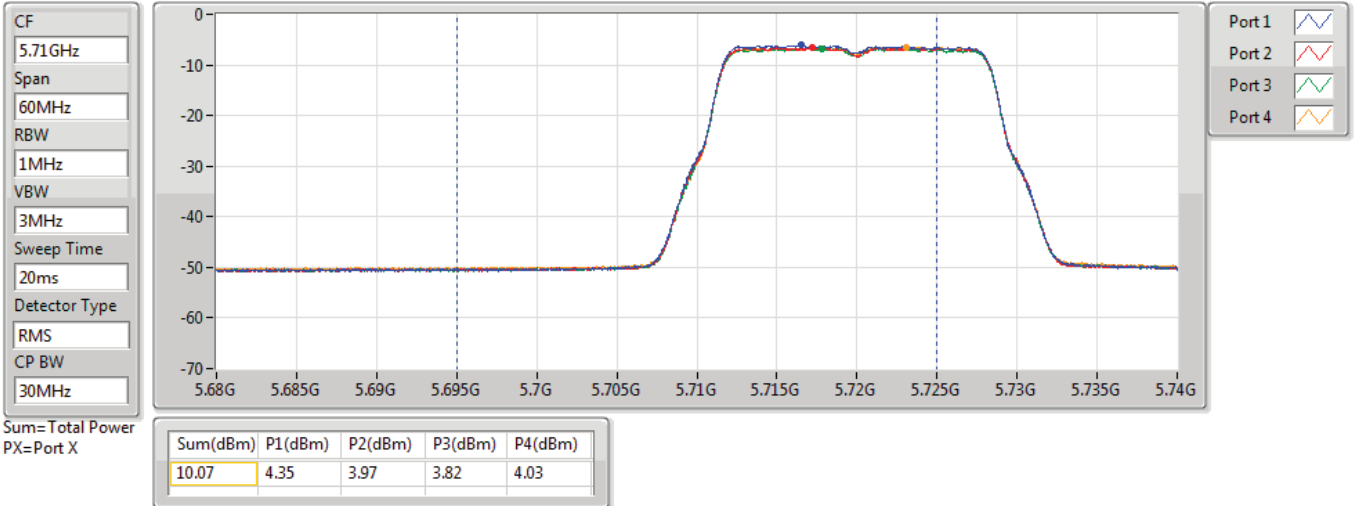
DG = Directional Gain; Port X = Port X output power

802.11a_Nss1,(6Mbps)_4TX

AV Power

5720MHz Straddle 5.47-5.725GHz_TnomVnom

23/12/2021

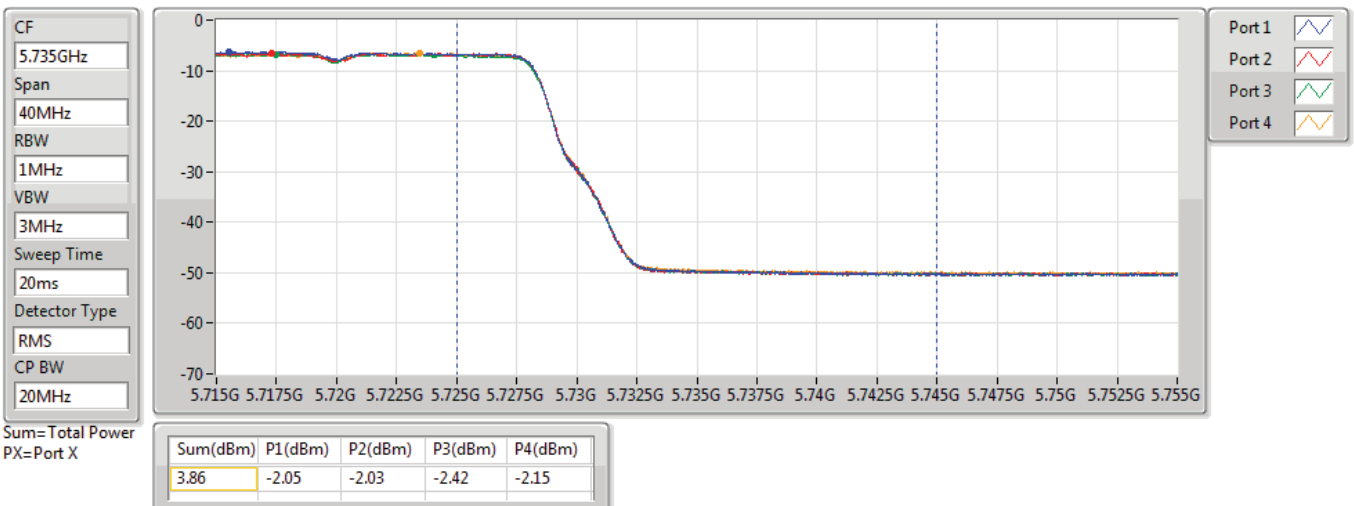


802.11a_Nss1,(6Mbps)_4TX

AV Power

5720MHz Straddle 5.725-5.85GHz_TnomVnom

23/12/2021



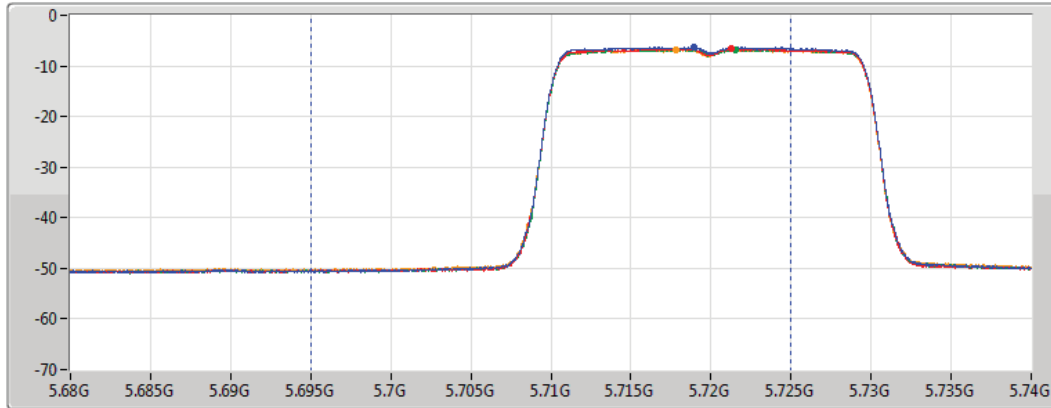
802.11ax HEW20_Nss1,(MCS0)_4TX

AV Power

5720MHz Straddle 5.47-5.725GHz_TnomVnom

23/12/2021

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)
10.39	4.68	4.35	4.23	4.20

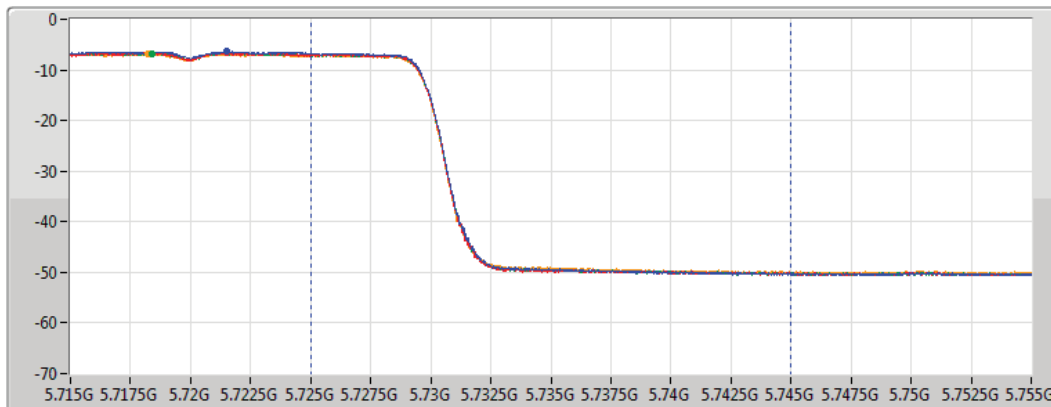
802.11ax HEW20_Nss1,(MCS0)_4TX

AV Power

5720MHz Straddle 5.725-5.85GHz_TnomVnom

23/12/2021

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

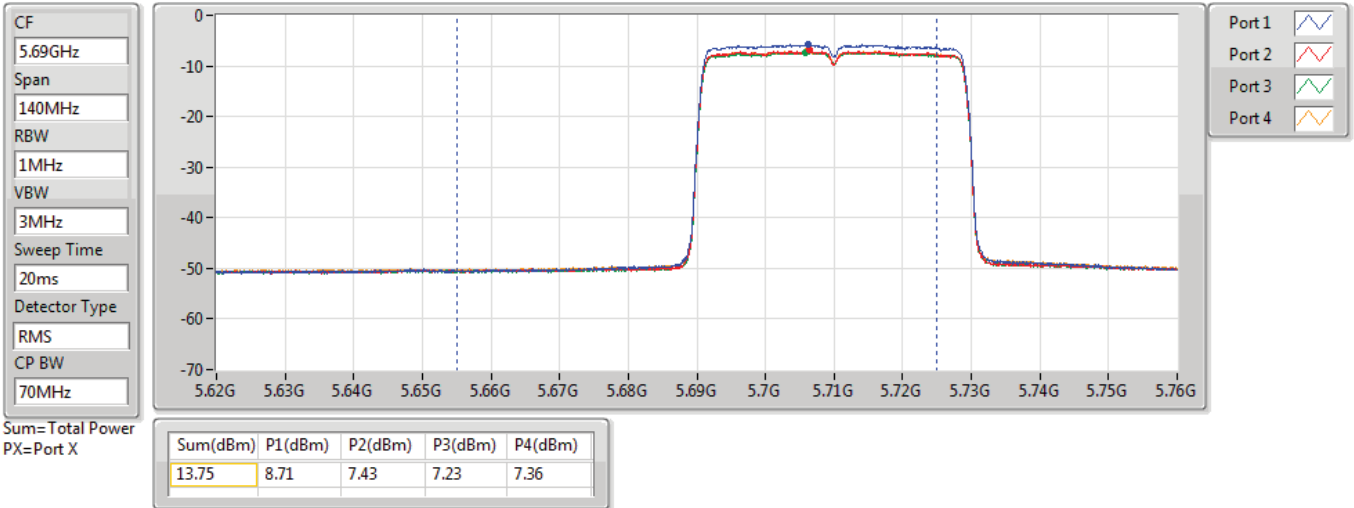
Sum(dBm)	P1(dBm)	P2(dBm)	P3(dBm)	P4(dBm)
5.09	-0.70	-0.95	-0.98	-1.09

802.11ax HEW40_Nss1,(MCS0)_4TX

AV Power

5710MHz Straddle 5.47-5.725GHz_TnomVnom

23/12/2021

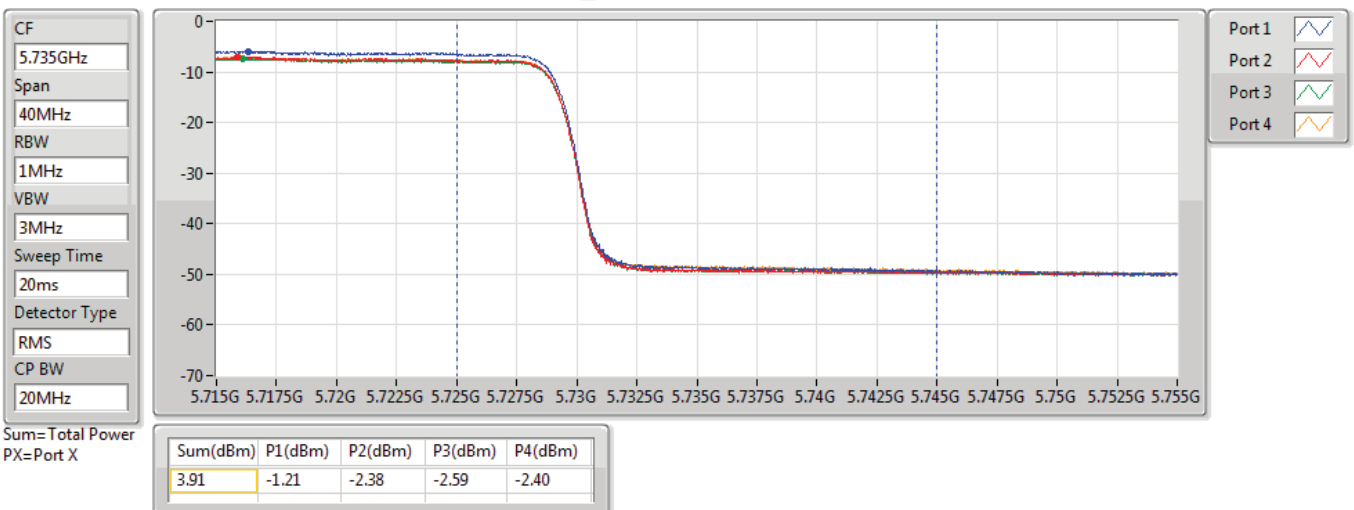


802.11ax HEW40_Nss1,(MCS0)_4TX

AV Power

5710MHz Straddle 5.725-5.85GHz_TnomVnom

23/12/2021

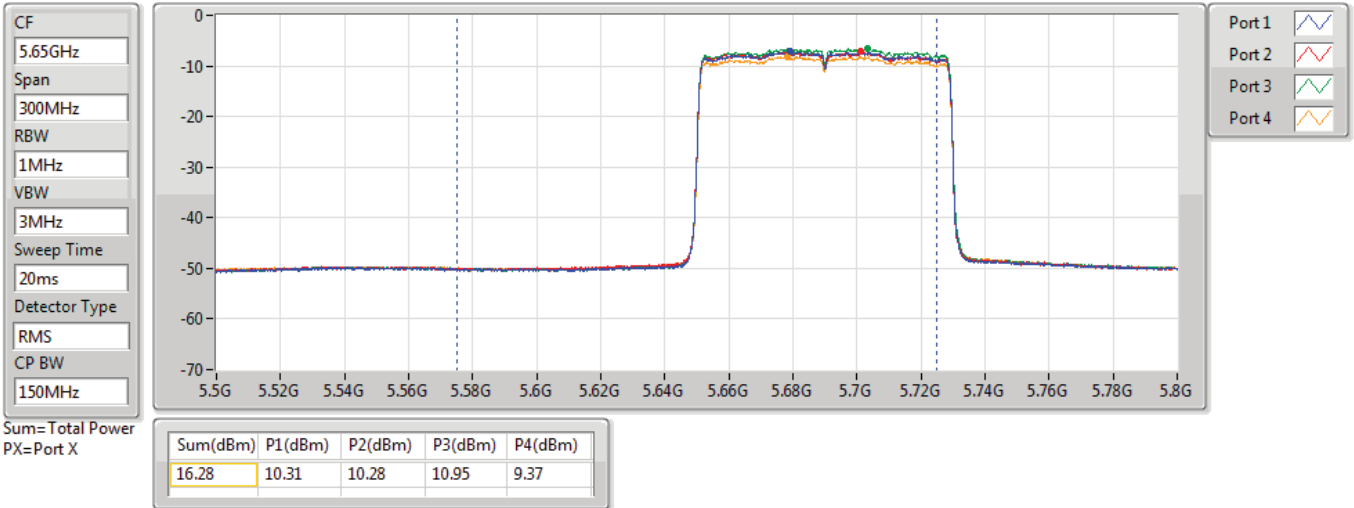


802.11ax HEW80_Nss1,(MCS0)_4TX

AV Power

5690MHz Straddle 5.47-5.725GHz_TnomVnom

23/12/2021

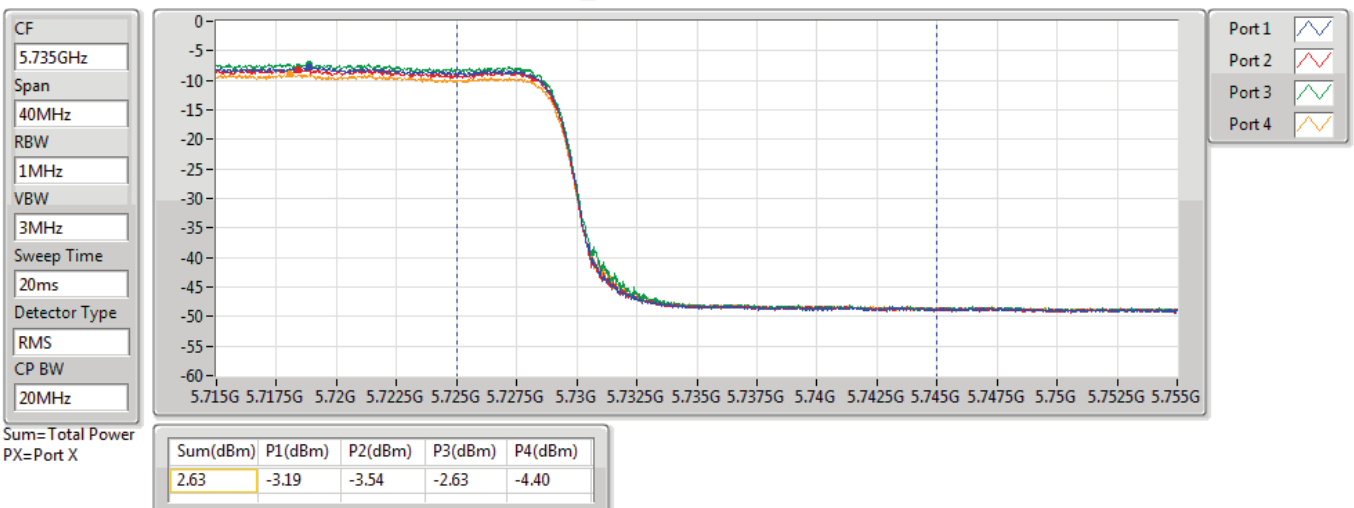


802.11ax HEW80_Nss1,(MCS0)_4TX

AV Power

5690MHz Straddle 5.725-5.85GHz_TnomVnom

23/12/2021



**Summary**

Mode	Total Power (dBm)	Total Power (W)	EIRP (dBm)	EIRP (W)
5.15-5.25GHz	-	-	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	16.47	0.04436	35.49	3.53997
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	16.27	0.04236	35.29	3.38065
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	16.13	0.04102	35.15	3.27341
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	10.26	0.01062	29.28	0.84723
5.25-5.35GHz	-	-	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	10.46	0.01112	29.48	0.88716
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	10.35	0.01084	29.37	0.86497
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	10.28	0.01067	29.30	0.85114
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	10.09	0.01021	29.11	0.81470
5.47-5.725GHz	-	-	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	10.38	0.01091	29.40	0.87096
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	10.43	0.01104	29.45	0.88105
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	10.30	0.01072	29.32	0.85507
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	10.26	0.01062	29.28	0.84723
5.725-5.85GHz	-	-	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	16.29	0.04256	35.31	3.39625
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	16.25	0.04217	35.27	3.36512
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	16.34	0.04305	35.36	3.43558



Average Power_Beamforming_Radio 1

Appendix C.3

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	19.02	10.55	9.09	10.10	11.66	16.47	16.98	35.49	36.00
5200MHz	Pass	19.02	10.05	9.44	10.06	11.69	16.41	16.98	35.43	36.00
5240MHz	Pass	19.02	10.09	9.18	10.27	11.40	16.33	16.98	35.35	36.00
5260MHz	Pass	19.02	5.68	3.32	3.16	4.09	10.20	10.96	29.22	30.00
5300MHz	Pass	19.02	5.69	3.80	3.97	4.00	10.46	10.96	29.48	30.00
5320MHz	Pass	19.02	5.41	4.22	3.66	4.07	10.41	10.96	29.43	30.00
5500MHz	Pass	19.02	3.65	3.73	3.69	4.19	9.84	10.96	28.86	30.00
5580MHz	Pass	19.02	3.71	4.42	4.04	5.15	10.38	10.96	29.40	30.00
5700MHz	Pass	19.02	4.86	3.78	4.03	3.62	10.12	10.96	29.14	30.00
5720MHz Straddle 5.47-5.725GHz	Pass	19.02	3.76	2.55	2.79	3.08	9.09	9.94	28.11	28.96
5720MHz Straddle 5.725-5.85GHz	Pass	19.02	-1.72	-2.45	-2.32	-2.26	3.84	16.98	22.86	36.00
5745MHz	Pass	19.02	10.55	10.51	9.58	10.37	16.29	16.98	35.31	36.00
5785MHz	Pass	19.02	10.74	10.24	9.90	9.67	16.18	16.98	35.20	36.00
5825MHz	Pass	19.02	10.13	9.77	10.83	9.81	16.18	16.98	35.20	36.00
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	19.02	10.30	10.62	10.36	9.66	16.27	16.98	35.29	36.00
5230MHz	Pass	19.02	9.96	10.24	10.25	9.82	16.09	16.98	35.11	36.00
5270MHz	Pass	19.02	4.21	4.46	3.64	4.90	10.35	10.96	29.37	30.00
5310MHz	Pass	19.02	3.45	4.32	3.85	4.53	10.08	10.96	29.10	30.00
5510MHz	Pass	19.02	4.61	4.01	4.97	3.28	10.28	10.96	29.30	30.00
5550MHz	Pass	19.02	4.49	4.59	4.29	4.25	10.43	10.96	29.45	30.00
5670MHz	Pass	19.02	4.56	4.81	3.37	3.62	10.15	10.96	29.17	30.00
5710MHz Straddle 5.47-5.725GHz	Pass	19.02	4.14	4.93	3.78	4.46	10.37	10.96	29.39	30.00
5710MHz Straddle 5.725-5.85GHz	Pass	19.02	-5.81	-4.69	-6.14	-5.56	0.50	16.98	19.52	36.00
5755MHz	Pass	19.02	10.23	10.09	10.80	9.72	16.25	16.98	35.27	36.00
5795MHz	Pass	19.02	10.52	9.65	10.59	9.86	16.19	16.98	35.21	36.00
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	19.02	10.57	10.25	10.34	9.16	16.13	16.98	35.15	36.00
5290MHz	Pass	19.02	3.99	4.52	4.12	4.37	10.28	10.96	29.30	30.00
5530MHz	Pass	19.02	4.48	4.55	4.08	3.98	10.30	10.96	29.32	30.00
5610MHz	Pass	19.02	4.37	3.32	3.50	4.85	10.08	10.96	29.10	30.00
5690MHz Straddle 5.47-5.725GHz	Pass	19.02	4.58	2.59	2.84	3.74	9.53	10.96	28.55	30.00
5690MHz Straddle 5.725-5.85GHz	Pass	19.02	-9.99	-10.51	-10.65	-9.71	-4.18	16.98	14.84	36.00
5775MHz	Pass	19.02	9.15	10.25	10.89	10.79	16.34	16.98	35.36	36.00
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	19.02	4.44	3.80	3.97	4.69	10.26	16.98	29.28	36.00
5250MHz Straddle 5.25-5.35GHz	Pass	19.02	4.65	4.01	3.94	3.60	10.09	10.96	29.11	30.00
5570MHz	Pass	19.02	4.91	3.79	4.75	3.32	10.26	10.96	29.28	30.00

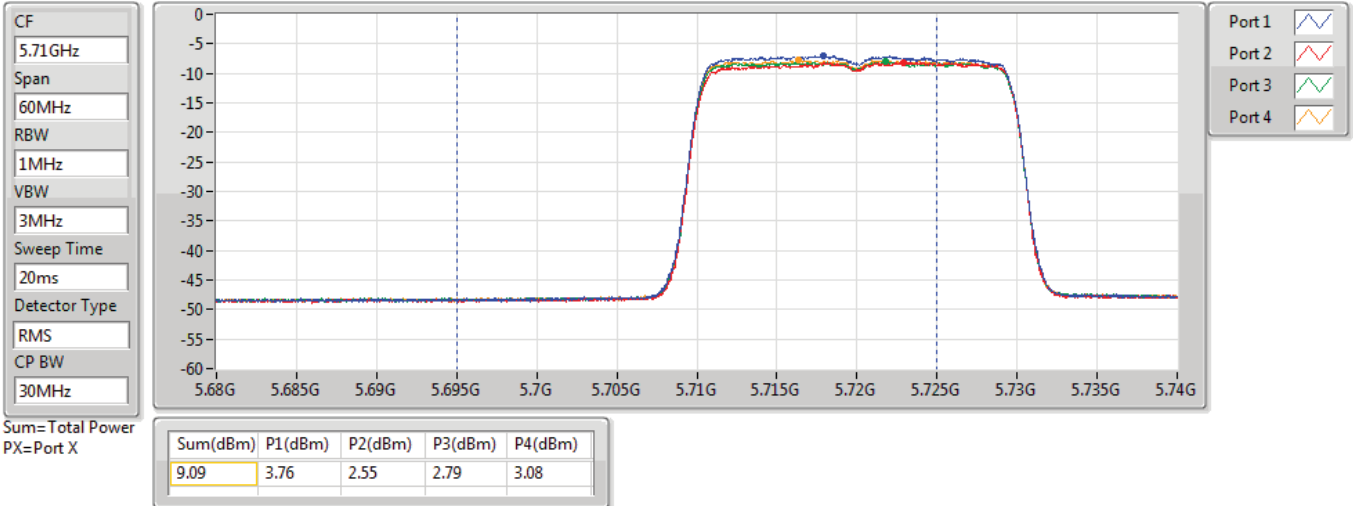
DG = Directional Gain; Port X = Port X output power

802.11ax HEW20-BF_Nss1,(MCS0)_4TX

AV Power

5720MHz Straddle 5.47-5.725GHz_TnomVnom

24/12/2021

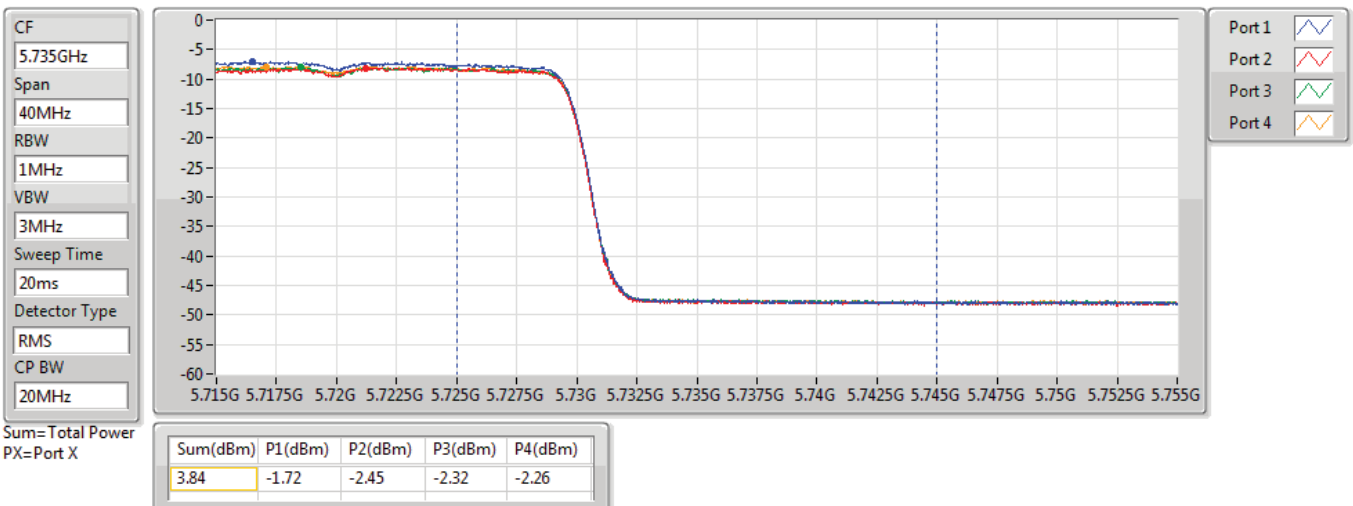


802.11ax HEW20-BF_Nss1,(MCS0)_4TX

AV Power

5720MHz Straddle 5.725-5.85GHz_TnomVnom

24/12/2021



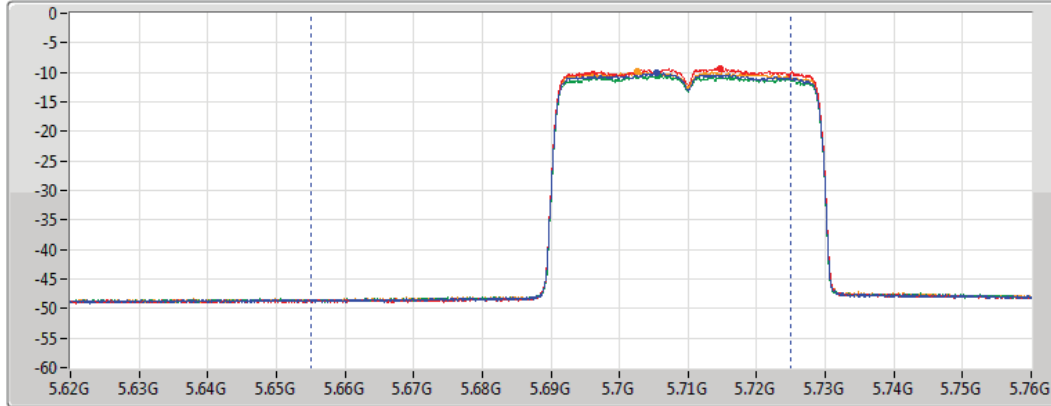
802.11ax HEW40-BF_Nss1,(MCS0)_4TX

AV Power

5710MHz Straddle 5.47-5.725GHz_TnomVnom

24/12/2021

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)
10.37	4.14	4.93	3.78	4.46

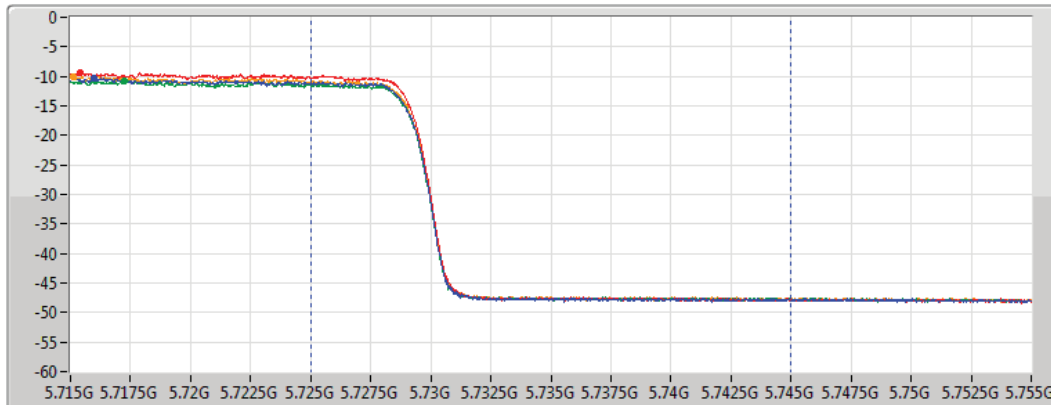
802.11ax HEW40-BF_Nss1,(MCS0)_4TX

AV Power

5710MHz Straddle 5.725-5.85GHz_TnomVnom

24/12/2021

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

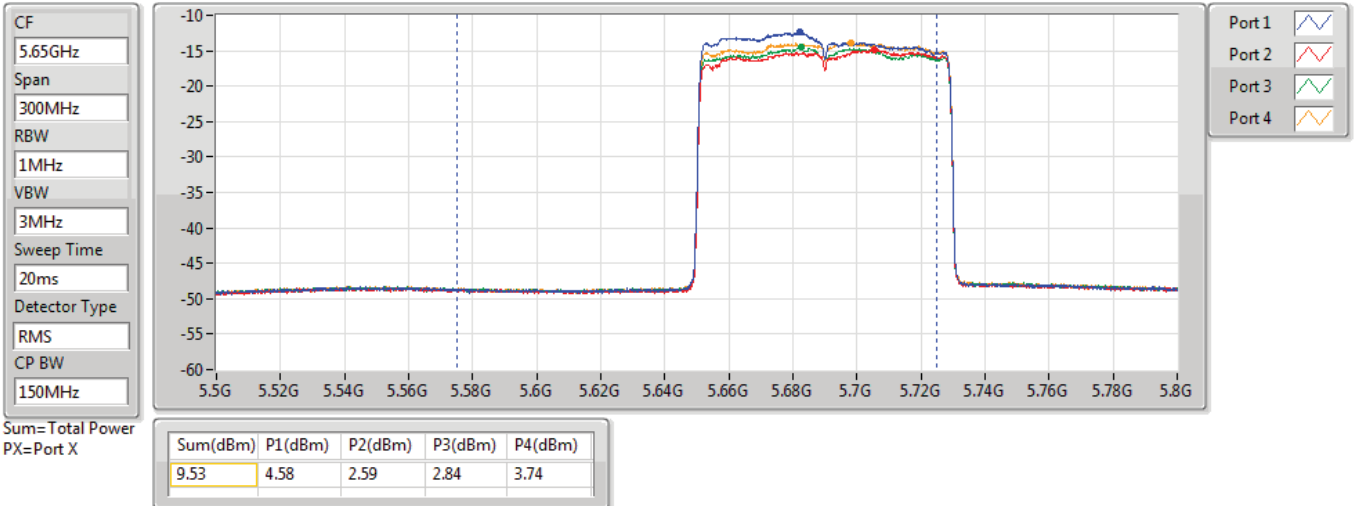
Sum(dBm)	P1(dBm)	P2(dBm)	P3(dBm)	P4(dBm)
0.50	-5.81	-4.69	-6.14	-5.56

802.11ax HEW80-BF_Nss1,(MCS0)_4TX

AV Power

5690MHz Straddle 5.47-5.725GHz_TnomVnom

24/12/2021

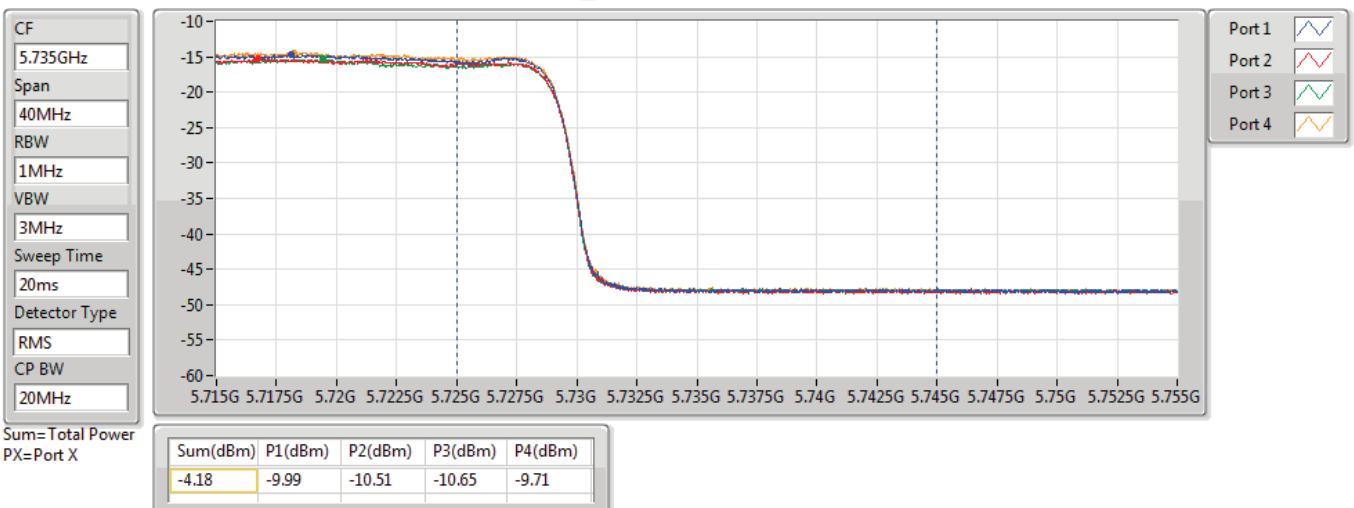


802.11ax HEW80-BF_Nss1,(MCS0)_4TX

AV Power

5690MHz Straddle 5.725-5.85GHz_TnomVnom

24/12/2021

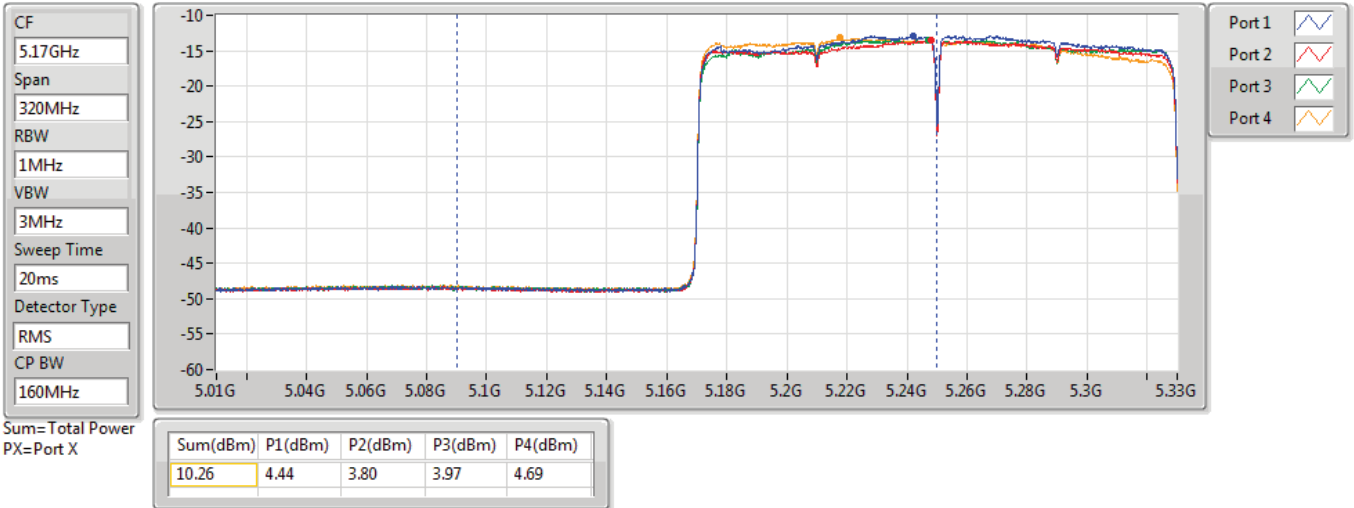


802.11ax HEW160-BF_Nss1,(MCS0)_4TX

AV Power

5250MHz Straddle 5.15-5.25GHz_TnomVnom

24/12/2021

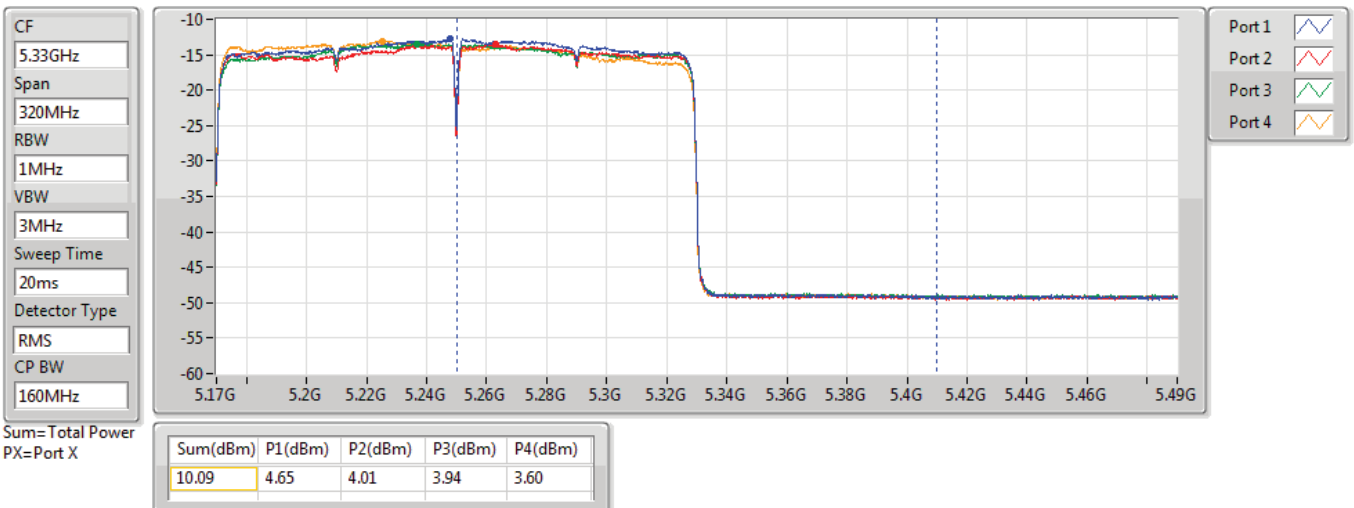


802.11ax HEW160-BF_Nss1,(MCS0)_4TX

AV Power

5250MHz Straddle 5.25-5.35GHz_TnomVnom

24/12/2021



**Summary**

Mode	Total Power (dBm)	Total Power (W)	EIRP (dBm)	EIRP (W)
5.47-5.725GHz	-	-	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	10.38	0.01091	29.40	0.87096
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	10.38	0.01091	29.40	0.87096
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	10.17	0.01040	29.19	0.82985
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	10.41	0.01099	29.43	0.87700
5.725-5.85GHz	-	-	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	16.20	0.04169	35.22	3.32660
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	16.03	0.04009	35.05	3.19890
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	15.95	0.03936	34.97	3.14051



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	-	-	-	-	-	-	-	-	-	-
5500MHz	Pass	19.02	4.44	3.56	3.97	4.19	10.07	10.96	29.09	30.00
5580MHz	Pass	19.02	3.95	3.89	4.78	4.66	10.36	10.96	29.38	30.00
5700MHz	Pass	19.02	4.06	4.74	4.42	4.20	10.38	10.96	29.40	30.00
5720MHz Straddle 5.47-5.725GHz	Pass	19.02	3.08	3.02	3.19	2.67	9.01	9.84	28.03	28.86
5720MHz Straddle 5.725-5.85GHz	Pass	19.02	-2.14	-1.42	-3.41	-2.13	3.80	16.98	22.82	36.00
5745MHz	Pass	19.02	9.90	9.37	9.56	11.02	16.03	16.98	35.05	36.00
5785MHz	Pass	19.02	10.13	9.61	10.07	10.18	16.02	16.98	35.04	36.00
5825MHz	Pass	19.02	10.01	9.66	9.79	11.11	16.20	16.98	35.22	36.00
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5510MHz	Pass	19.02	4.68	3.75	4.53	3.82	10.24	10.96	29.26	30.00
5550MHz	Pass	19.02	4.89	4.05	4.71	3.69	10.38	10.96	29.40	30.00
5670MHz	Pass	19.02	5.43	3.49	4.32	3.86	10.36	10.96	29.38	30.00
5710MHz Straddle 5.47-5.725GHz	Pass	19.02	5.51	3.77	3.66	4.02	10.33	10.96	29.35	30.00
5710MHz Straddle 5.725-5.85GHz	Pass	19.02	-4.57	-6.44	-5.49	-5.62	0.54	16.98	19.56	36.00
5755MHz	Pass	19.02	9.30	10.03	10.08	10.50	16.02	16.98	35.04	36.00
5795MHz	Pass	19.02	8.84	9.92	10.53	10.53	16.03	16.98	35.05	36.00
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5530MHz	Pass	19.02	4.78	2.90	4.66	3.78	10.11	10.96	29.13	30.00
5610MHz	Pass	19.02	3.41	3.60	5.27	3.51	10.04	10.96	29.06	30.00
5690MHz Straddle 5.47-5.725GHz	Pass	19.02	3.74	3.52	5.21	3.92	10.17	10.96	29.19	30.00
5690MHz Straddle 5.725-5.85GHz	Pass	19.02	-10.12	-10.22	-8.56	-9.80	-3.60	16.98	15.42	36.00
5775MHz	Pass	19.02	9.88	9.61	10.00	10.22	15.95	16.98	34.97	36.00
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5570MHz	Pass	19.02	3.99	3.68	5.39	4.29	10.41	10.96	29.43	30.00

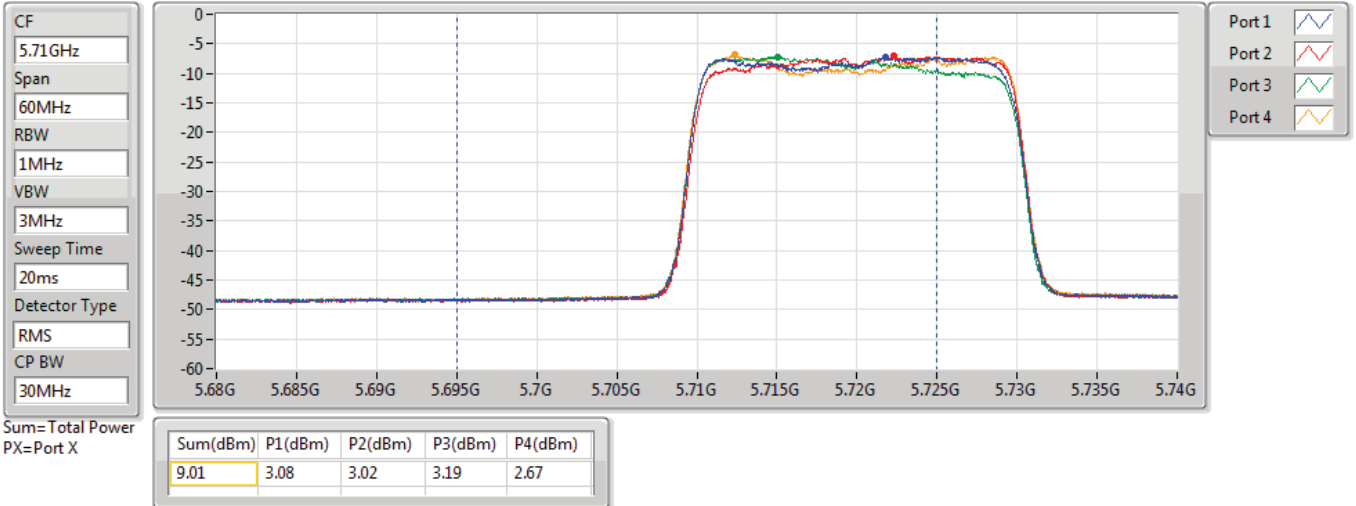
DG = Directional Gain; Port X = Port X output power

802.11ax HEW20-BF_Nss1,(MCS0)_4TX

AV Power

5720MHz Straddle 5.47-5.725GHz_TnomVnom

25/12/2021

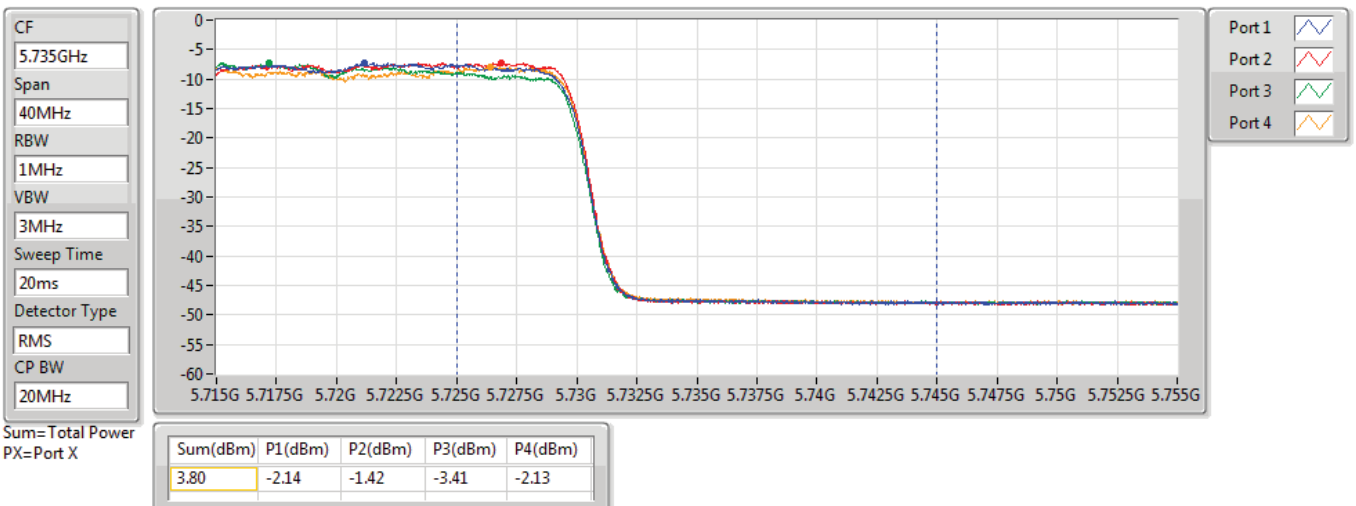


802.11ax HEW20-BF_Nss1,(MCS0)_4TX

AV Power

5720MHz Straddle 5.725-5.85GHz_TnomVnom

25/12/2021

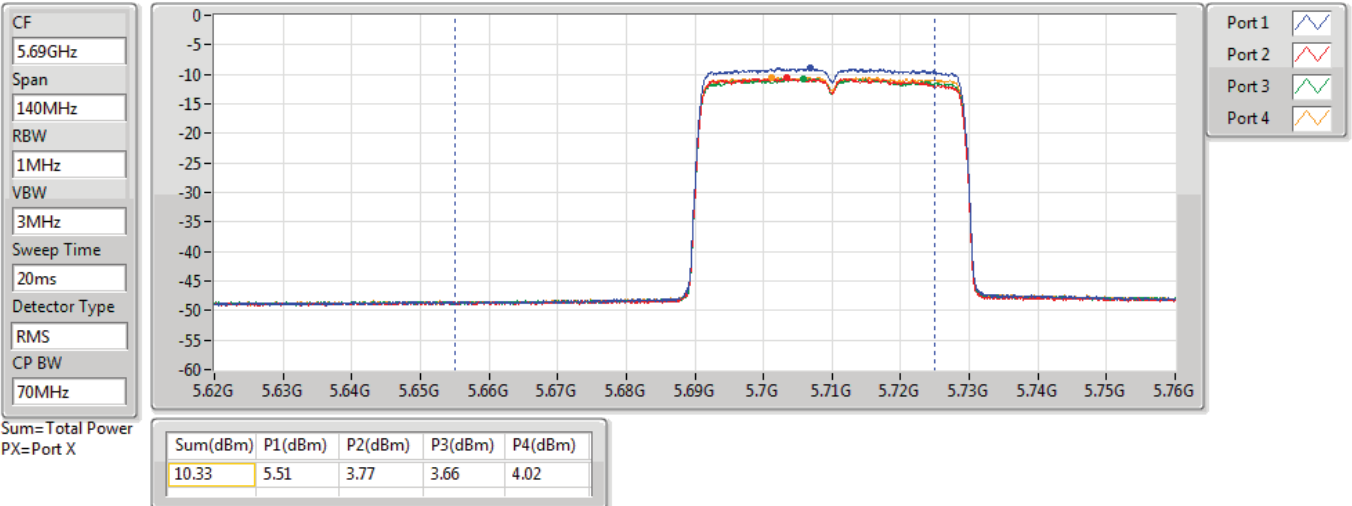


802.11ax HEW40-BF_Nss1,(MCS0)_4TX

AV Power

5710MHz Straddle 5.47-5.725GHz_TnomVnom

25/12/2021

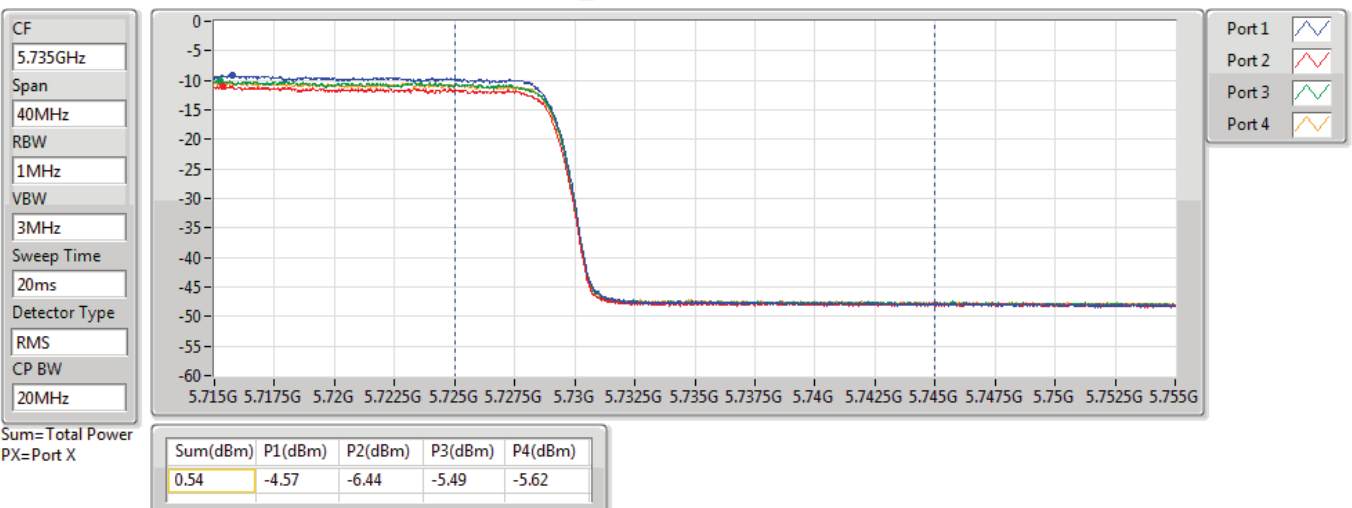


802.11ax HEW40-BF_Nss1,(MCS0)_4TX

AV Power

5710MHz Straddle 5.725-5.85GHz_TnomVnom

25/12/2021

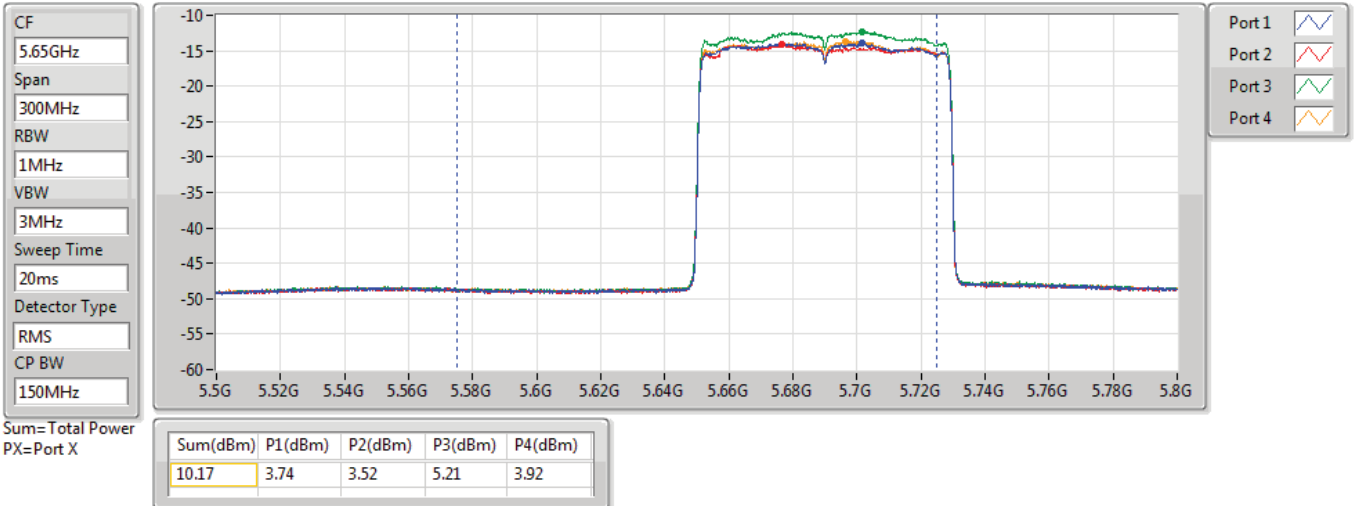


802.11ax HEW80-BF_Nss1,(MCS0)_4TX

AV Power

5690MHz Straddle 5.47-5.725GHz_TnomVnom

25/12/2021

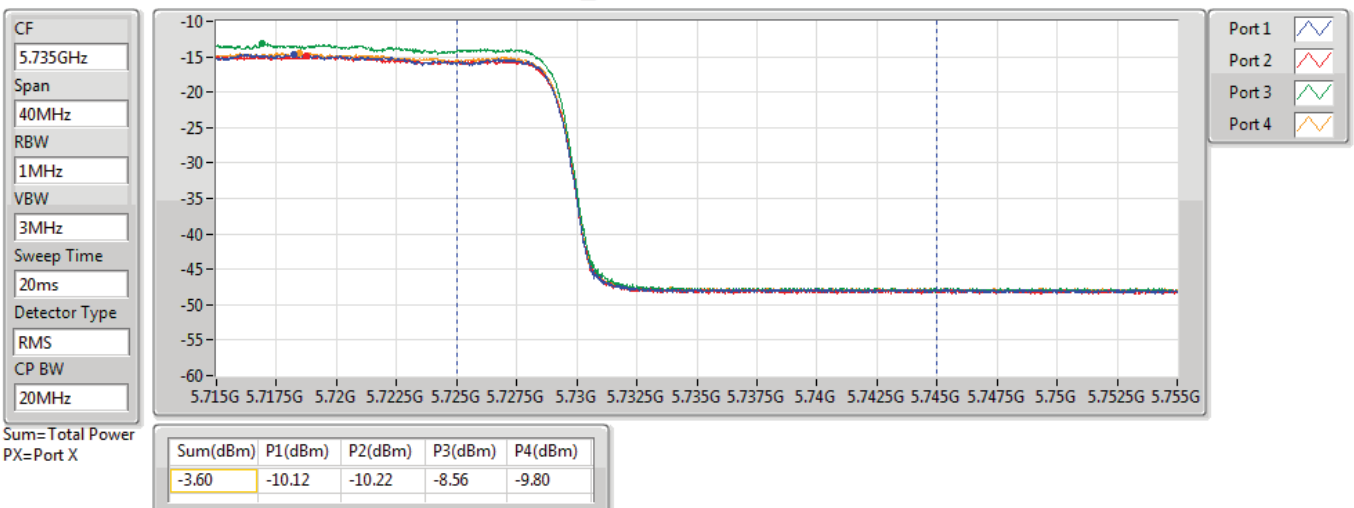


802.11ax HEW80-BF_Nss1,(MCS0)_4TX

AV Power

5690MHz Straddle 5.725-5.85GHz_TnomVnom

25/12/2021





Summary

Mode	PD (dBm/RBW)	EIRP PD (dBm/RBW)
5.15-5.25GHz	-	-
802.11a_Nss1,(6Mbps)_4TX	3.87	22.89
802.11ax HEW20_Nss1,(MCS0)_4TX	3.93	22.95
802.11ax HEW40_Nss1,(MCS0)_4TX	3.75	22.77
802.11ax HEW80_Nss1,(MCS0)_4TX	-2.24	16.78
802.11ax HEW160_Nss1,(MCS0)_4TX	-7.71	11.31
5.25-5.35GHz	-	-
802.11a_Nss1,(6Mbps)_4TX	-2.10	16.92
802.11ax HEW20_Nss1,(MCS0)_4TX	-2.05	16.97
802.11ax HEW40_Nss1,(MCS0)_4TX	-2.04	16.98
802.11ax HEW80_Nss1,(MCS0)_4TX	-3.53	15.49
802.11ax HEW160_Nss1,(MCS0)_4TX	-7.69	11.33
5.47-5.725GHz	-	-
802.11a_Nss1,(6Mbps)_4TX	-2.09	16.93
802.11ax HEW20_Nss1,(MCS0)_4TX	-2.11	16.91
802.11ax HEW40_Nss1,(MCS0)_4TX	-2.08	16.94
802.11ax HEW80_Nss1,(MCS0)_4TX	-2.87	16.15
802.11ax HEW160_Nss1,(MCS0)_4TX	-5.99	13.03
5.725-5.85GHz	-	-
802.11a_Nss1,(6Mbps)_4TX	7.45	26.47
802.11ax HEW20_Nss1,(MCS0)_4TX	6.75	25.77
802.11ax HEW40_Nss1,(MCS0)_4TX	3.67	22.69
802.11ax HEW80_Nss1,(MCS0)_4TX	1.26	20.28

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	19.02	-1.81	-1.96	-1.98	-2.42	3.87	3.98	22.89	23.00
5200MHz	Pass	19.02	-2.20	-1.96	-2.35	-2.24	3.71	3.98	22.73	23.00
5240MHz	Pass	19.02	-1.78	-2.35	-2.35	-1.81	3.82	3.98	22.84	23.00
5260MHz	Pass	19.02	-7.50	-8.62	-8.32	-7.67	-2.10	-2.02	16.92	17.00
5300MHz	Pass	19.02	-7.51	-8.25	-8.41	-8.49	-2.27	-2.02	16.75	17.00
5320MHz	Pass	19.02	-7.34	-8.49	-8.51	-7.72	-2.11	-2.02	16.91	17.00
5500MHz	Pass	19.02	-8.51	-8.45	-8.23	-7.06	-2.09	-2.02	16.93	17.00
5580MHz	Pass	19.02	-8.24	-8.21	-8.72	-7.06	-2.14	-2.02	16.88	17.00
5700MHz	Pass	19.02	-7.84	-9.07	-8.23	-7.26	-2.15	-2.02	16.87	17.00
5720MHz Straddle 5.47-5.725GHz	Pass	19.02	-7.74	-9.42	-8.76	-7.71	-2.43	-2.02	16.59	17.00
5720MHz Straddle 5.725-5.85GHz	Pass	19.02	-9.67	-11.12	-10.51	-9.57	-4.23	16.98	14.79	36.00
5745MHz	Pass	19.02	1.80	1.70	1.01	1.69	7.45	16.98	26.47	36.00
5785MHz	Pass	19.02	1.23	1.45	0.99	1.17	7.09	16.98	26.11	36.00
5825MHz	Pass	19.02	1.37	1.44	1.10	0.89	7.07	16.98	26.09	36.00
802.11ax HEW20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	19.02	-1.97	-1.98	-2.29	-2.17	3.75	3.98	22.77	23.00
5200MHz	Pass	19.02	-1.90	-2.24	-1.75	-1.82	3.93	3.98	22.95	23.00
5240MHz	Pass	19.02	-1.85	-2.62	-2.43	-2.10	3.61	3.98	22.63	23.00
5260MHz	Pass	19.02	-7.56	-8.49	-8.93	-7.70	-2.28	-2.02	16.74	17.00
5300MHz	Pass	19.02	-7.59	-8.18	-8.60	-7.93	-2.16	-2.02	16.86	17.00
5320MHz	Pass	19.02	-7.38	-8.14	-8.48	-7.81	-2.05	-2.02	16.97	17.00
5500MHz	Pass	19.02	-8.54	-8.41	-8.48	-6.79	-2.11	-2.02	16.91	17.00
5580MHz	Pass	19.02	-8.46	-8.23	-8.29	-7.38	-2.12	-2.02	16.90	17.00
5700MHz	Pass	19.02	-7.97	-9.09	-8.32	-7.25	-2.18	-2.02	16.84	17.00
5720MHz Straddle 5.47-5.725GHz	Pass	19.02	-7.86	-9.09	-8.38	-7.62	-2.28	-2.02	16.74	17.00
5720MHz Straddle 5.725-5.85GHz	Pass	19.02	-9.75	-10.93	-10.47	-9.74	-4.25	16.98	14.77	36.00
5745MHz	Pass	19.02	1.18	1.34	0.27	0.67	6.75	16.98	25.77	36.00
5785MHz	Pass	19.02	0.51	0.83	0.47	0.85	6.59	16.98	25.61	36.00
5825MHz	Pass	19.02	0.55	0.62	0.12	0.52	6.34	16.98	25.36	36.00
802.11ax HEW40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	19.02	-5.27	-5.30	-5.49	-5.26	0.54	3.98	19.56	23.00
5230MHz	Pass	19.02	-2.27	-1.93	-2.50	-1.98	3.75	3.98	22.77	23.00
5270MHz	Pass	19.02	-8.13	-7.90	-8.72	-7.53	-2.16	-2.02	16.86	17.00
5310MHz	Pass	19.02	-8.07	-7.71	-8.53	-7.42	-2.04	-2.02	16.98	17.00
5510MHz	Pass	19.02	-8.11	-7.47	-8.58	-7.73	-2.08	-2.02	16.94	17.00
5550MHz	Pass	19.02	-8.47	-7.63	-8.53	-8.06	-2.24	-2.02	16.78	17.00
5670MHz	Pass	19.02	-8.03	-7.85	-8.85	-7.84	-2.25	-2.02	16.77	17.00
5710MHz Straddle 5.47-5.725GHz	Pass	19.02	-8.19	-7.80	-8.61	-7.88	-2.21	-2.02	16.81	17.00
5710MHz Straddle 5.725-5.85GHz	Pass	19.02	-10.35	-9.70	-10.61	-9.97	-4.21	16.98	14.81	36.00
5755MHz	Pass	19.02	-2.22	-1.70	-2.17	-2.62	3.67	16.98	22.69	36.00
5795MHz	Pass	19.02	-2.39	-1.73	-1.85	-2.82	3.63	16.98	22.65	36.00
802.11ax HEW80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	19.02	-8.05	-8.32	-8.05	-7.83	-2.24	3.98	16.78	23.00
5290MHz	Pass	19.02	-9.39	-9.69	-9.82	-8.96	-3.53	-2.02	15.49	17.00
5530MHz	Pass	19.02	-9.55	-8.39	-10.14	-9.32	-3.38	-2.02	15.64	17.00
5610MHz	Pass	19.02	-8.91	-9.45	-9.83	-9.40	-3.48	-2.02	15.54	17.00
5690MHz Straddle 5.47-5.725GHz	Pass	19.02	-8.60	-9.12	-9.33	-8.10	-2.87	-2.02	16.15	17.00
5690MHz Straddle 5.725-5.85GHz	Pass	19.02	-11.29	-11.63	-12.31	-10.78	-5.67	16.98	13.35	36.00
5775MHz	Pass	19.02	-5.67	-4.58	-4.43	-3.84	1.26	16.98	20.28	36.00
802.11ax HEW160_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	19.02	-13.26	-14.06	-13.80	-13.08	-7.71	3.98	11.31	23.00
5250MHz Straddle 5.25-5.35GHz	Pass	19.02	-13.38	-13.56	-13.87	-13.28	-7.69	-2.02	11.33	17.00
5570MHz	Pass	19.02	-11.50	-12.28	-11.87	-12.01	-5.99	-2.02	13.03	17.00



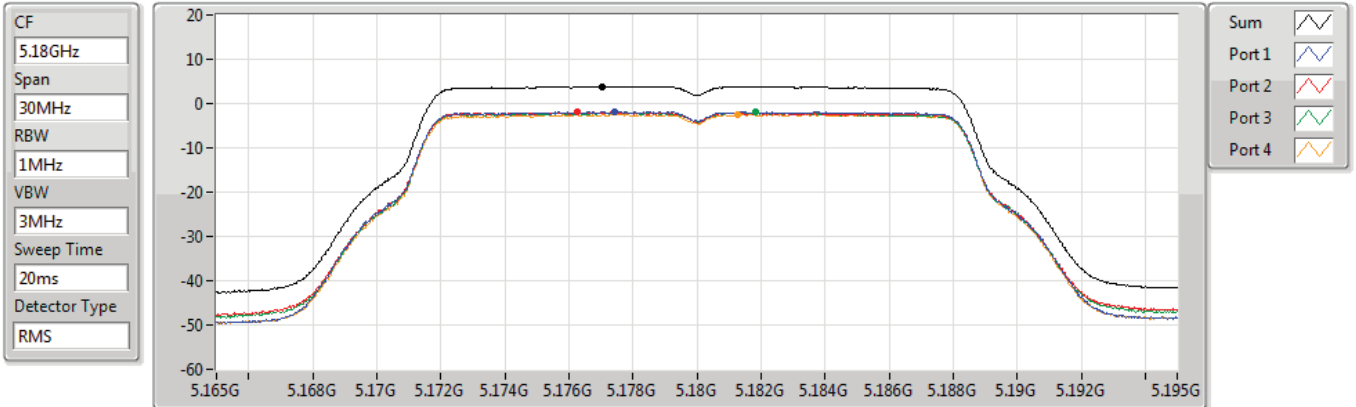
DG = Directional Gain; RBW = 500kHz for 5.725-5.85GHz band / 1MHz for other band;
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; Port X = Port X Power Density;

802.11a_Nss1,(6Mbps)_4TX

PSD

5180MHz

20/12/2021



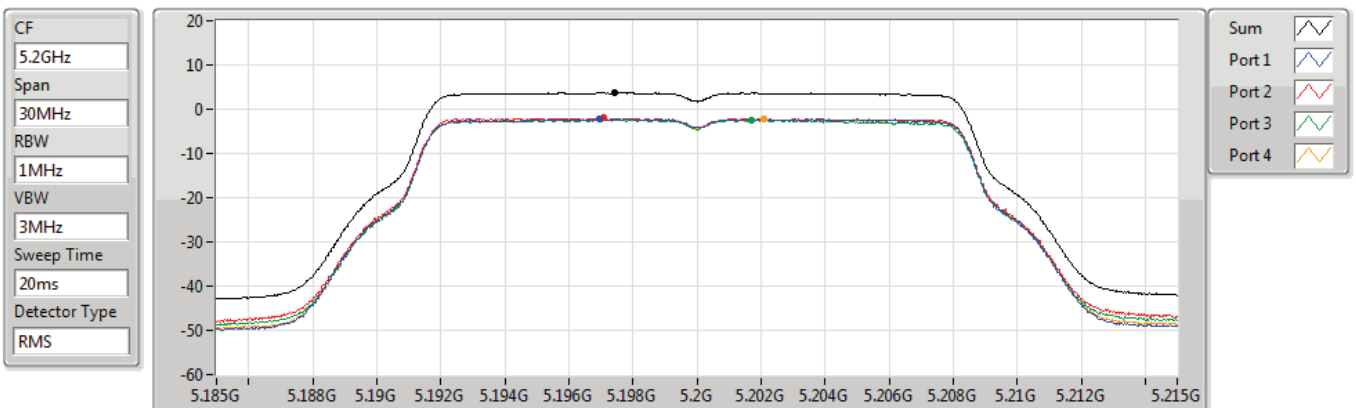
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
3.87	3.87	-1.81	-1.96	-1.98	-2.42

802.11a_Nss1,(6Mbps)_4TX

PSD

5200MHz

20/12/2021



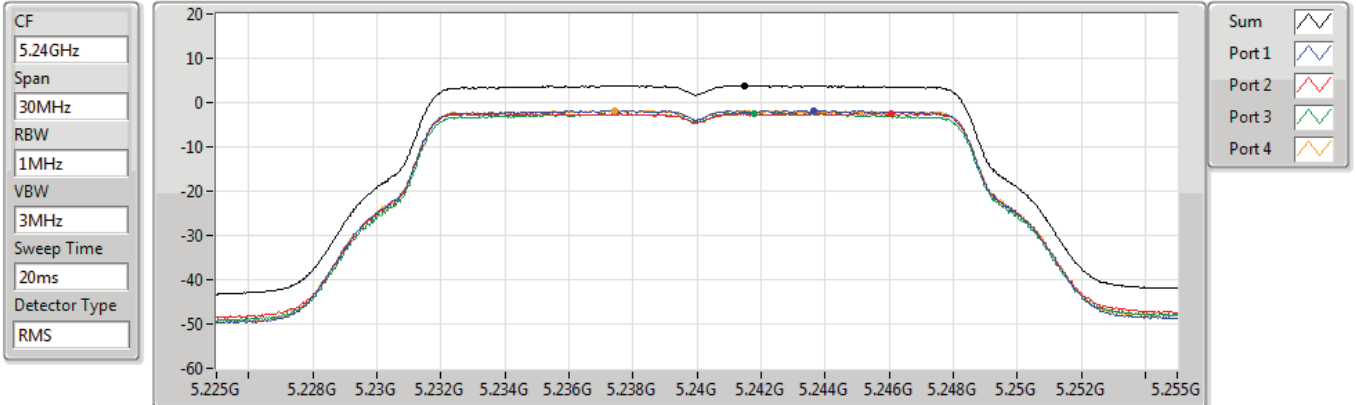
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
3.71	3.71	-2.20	-1.96	-2.35	-2.24

802.11a_Nss1,(6Mbps)_4TX

PSD

5240MHz

20/12/2021



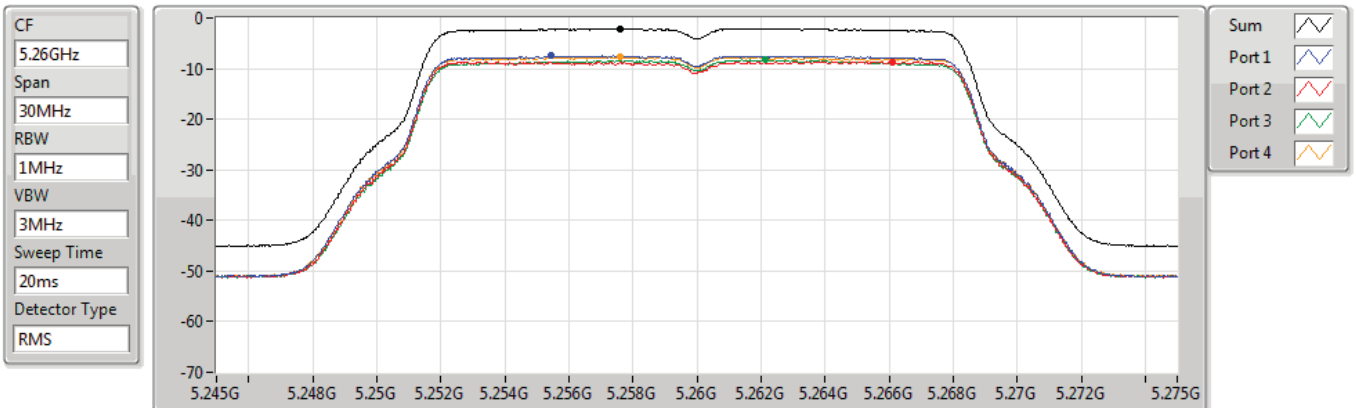
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
3.82	3.82	-1.78	-2.35	-2.35	-1.81

802.11a_Nss1,(6Mbps)_4TX

PSD

5260MHz

20/12/2021



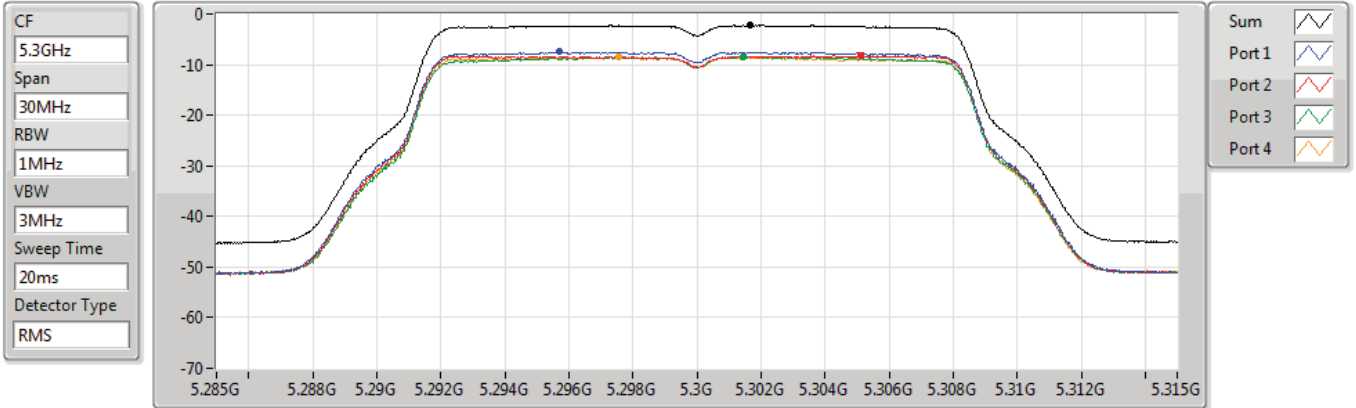
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-2.10	-2.10	-7.50	-8.62	-8.32	-7.67

802.11a_Nss1,(6Mbps)_4TX

PSD

5300MHz

20/12/2021



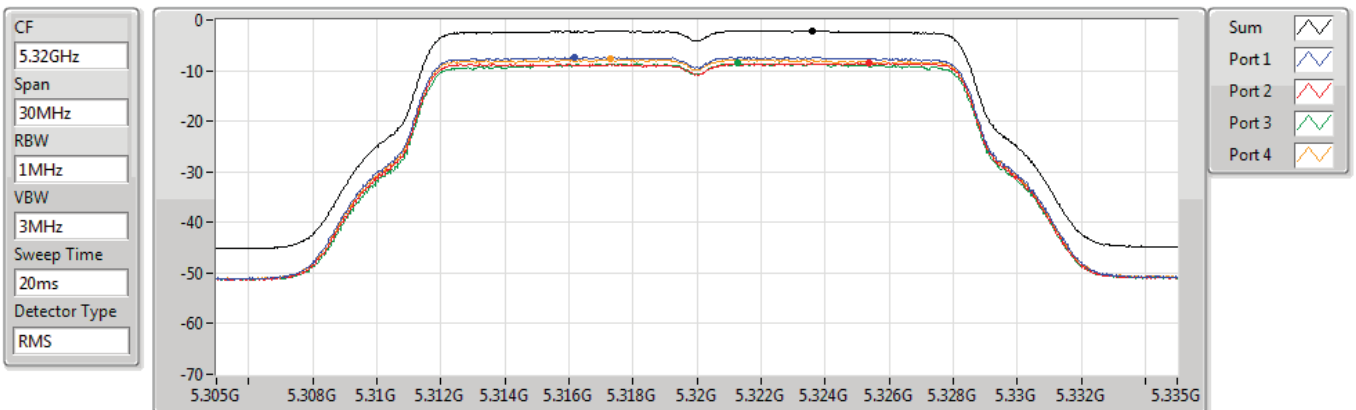
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-2.27	-2.27	-7.51	-8.25	-8.41	-8.49

802.11a_Nss1,(6Mbps)_4TX

PSD

5320MHz

20/12/2021



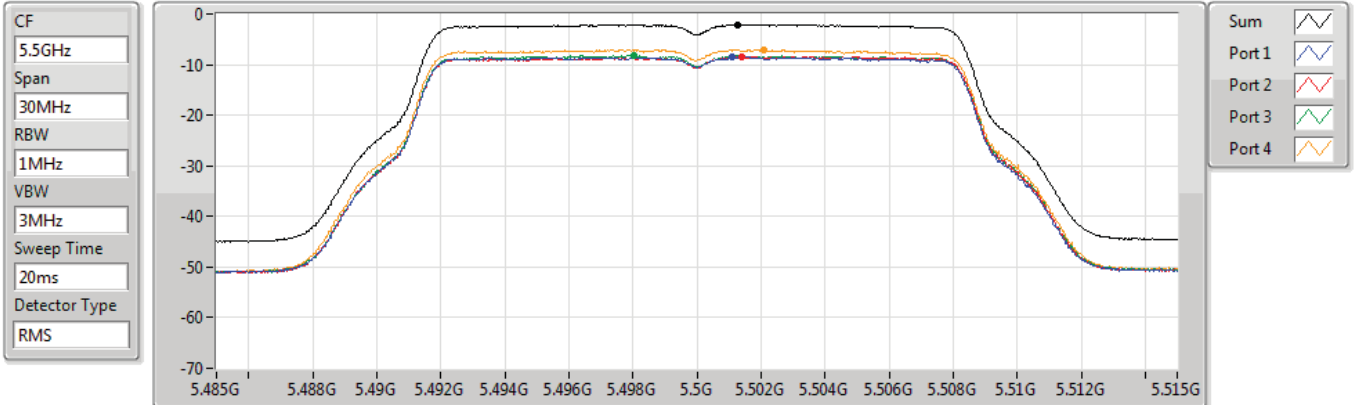
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-2.11	-2.11	-7.34	-8.49	-8.51	-7.72

802.11a_Nss1,(6Mbps)_4TX

PSD

5500MHz

20/12/2021



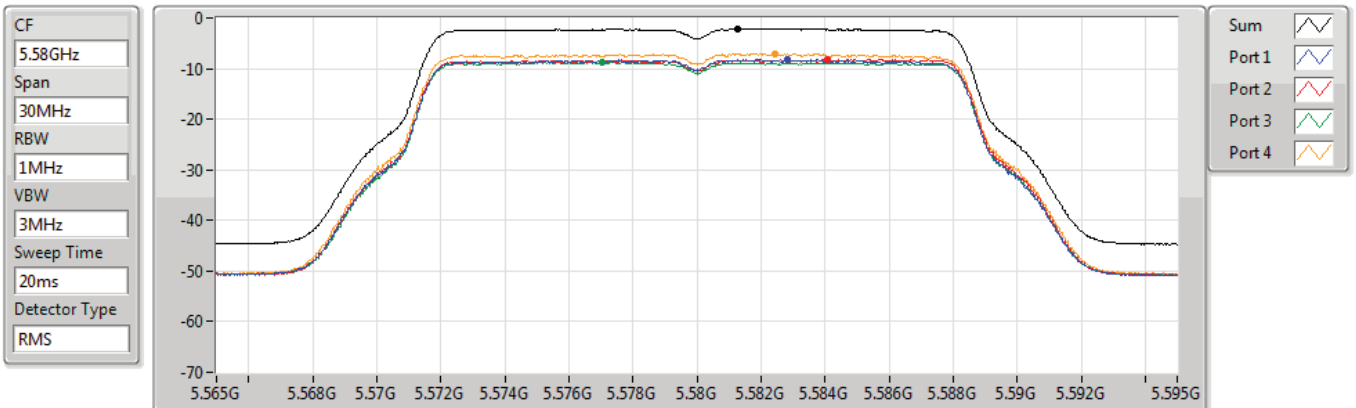
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-2.09	-2.09	-8.51	-8.45	-8.23	-7.06

802.11a_Nss1,(6Mbps)_4TX

PSD

5580MHz

20/12/2021



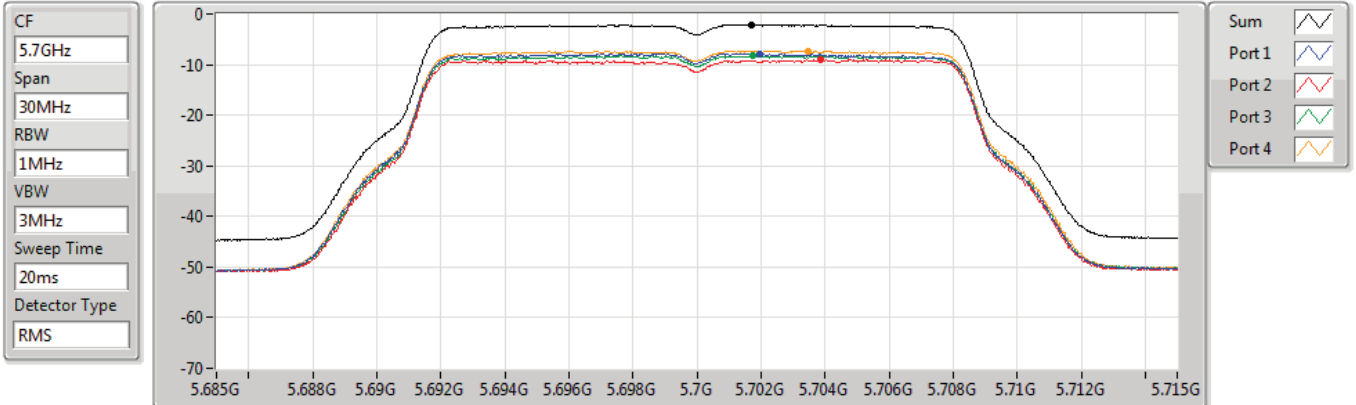
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-2.14	-2.14	-8.24	-8.21	-8.72	-7.06

802.11a_Nss1,(6Mbps)_4TX

PSD

5700MHz

20/12/2021

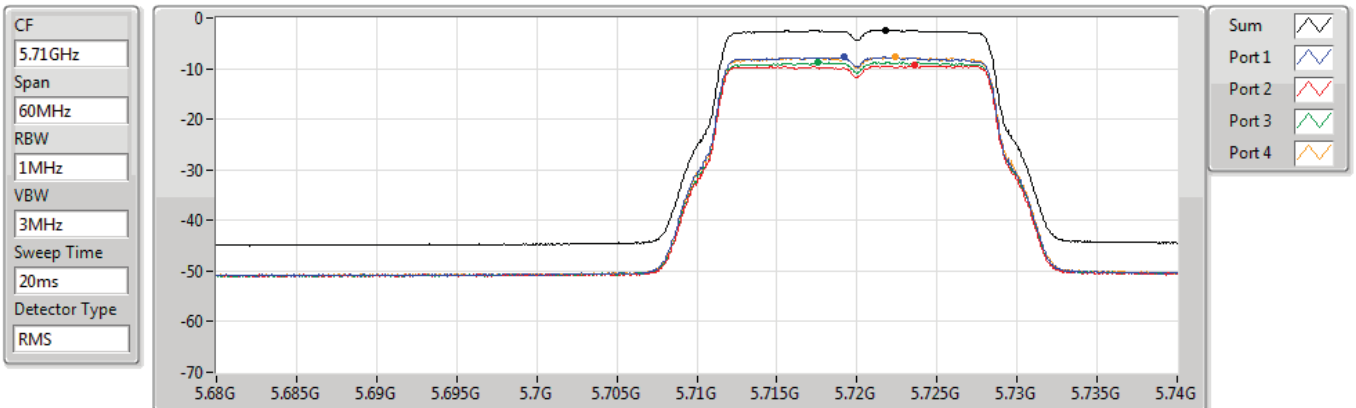


802.11a_Nss1,(6Mbps)_4TX

PSD

5720MHz Straddle 5.47-5.725GHz

20/12/2021

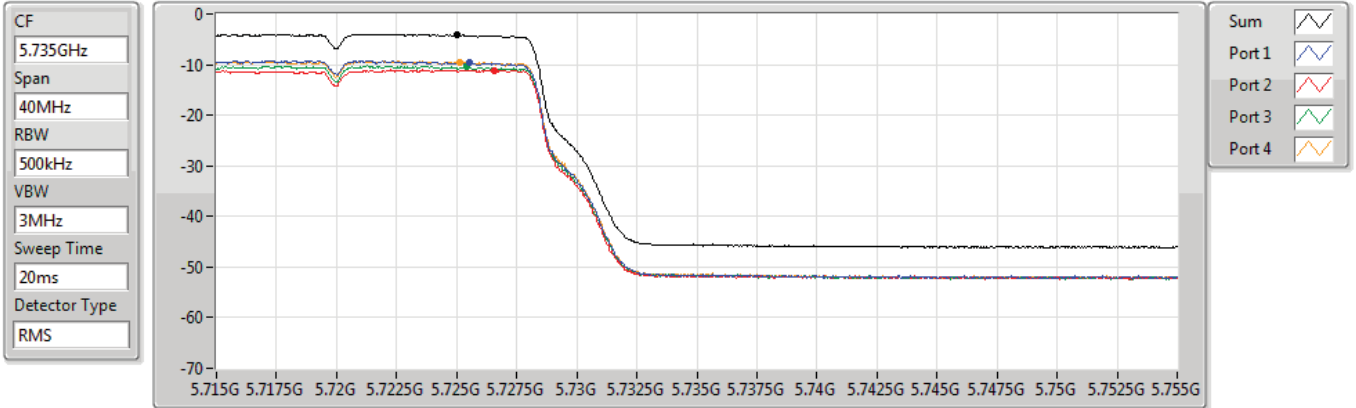


802.11a_Nss1,(6Mbps)_4TX

5720MHz Straddle 5.725-5.85GHz

PSD

20/12/2021

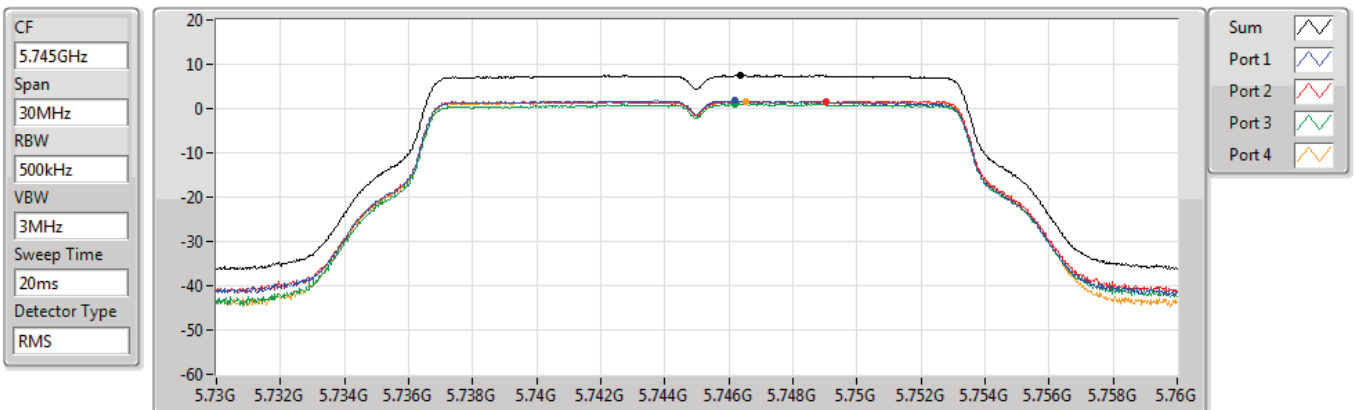


802.11a_Nss1,(6Mbps)_4TX

5745MHz

PSD

20/12/2021

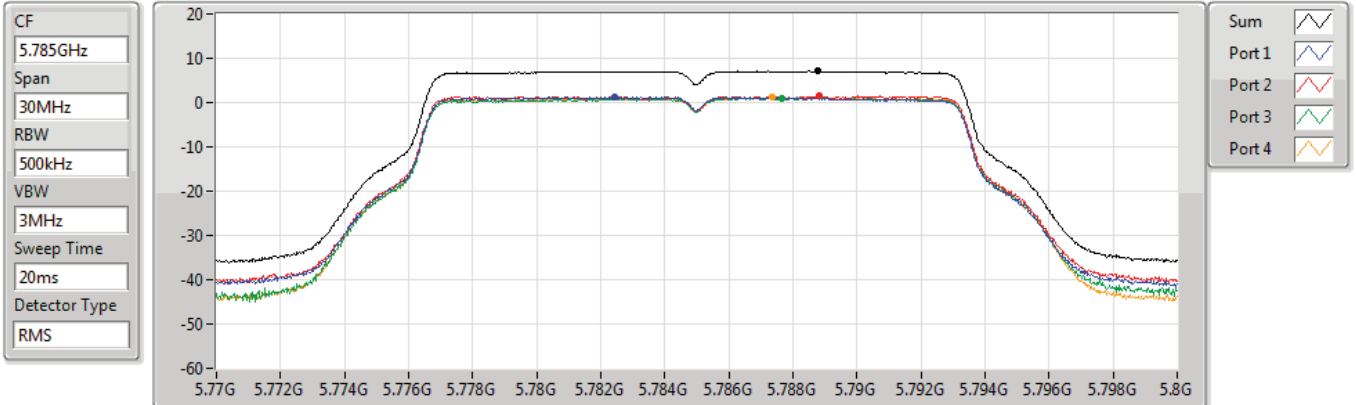


802.11a_Nss1,(6Mbps)_4TX

PSD

5785MHz

20/12/2021



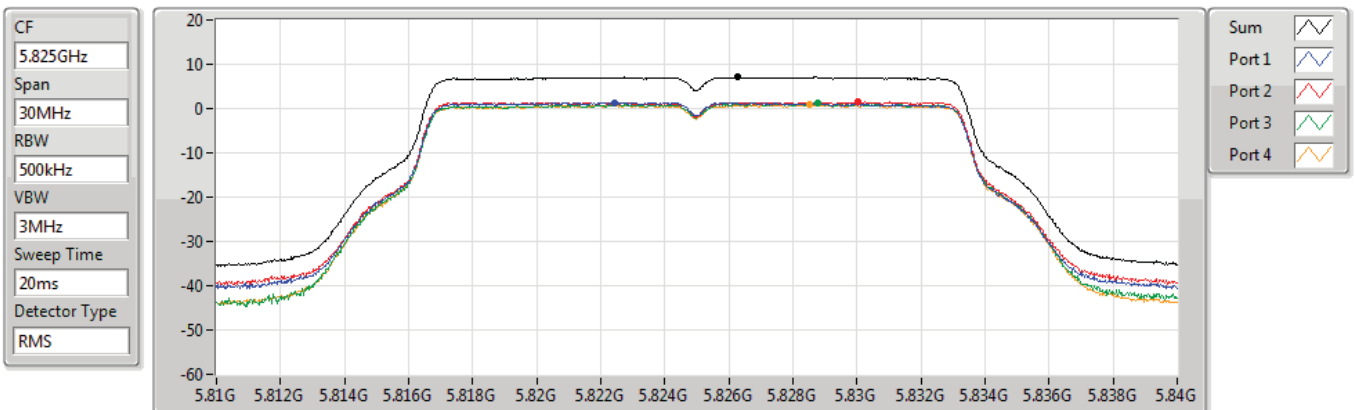
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
7.09	7.09	1.23	1.45	0.99	1.17

802.11a_Nss1,(6Mbps)_4TX

PSD

5825MHz

20/12/2021



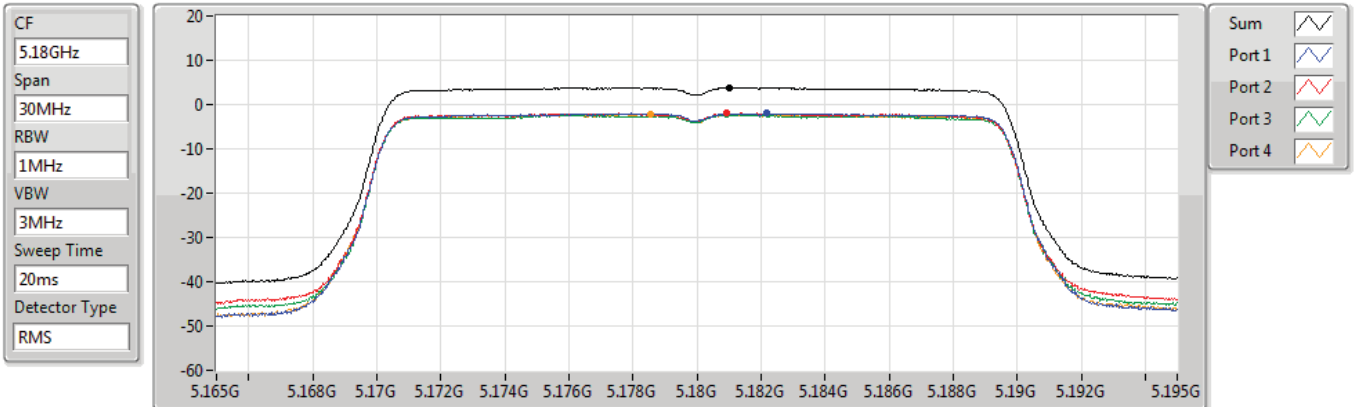
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
7.07	7.07	1.37	1.44	1.10	0.89

802.11ax HEW20_Nss1,(MCS0)_4TX

PSD

5180MHz

20/12/2021



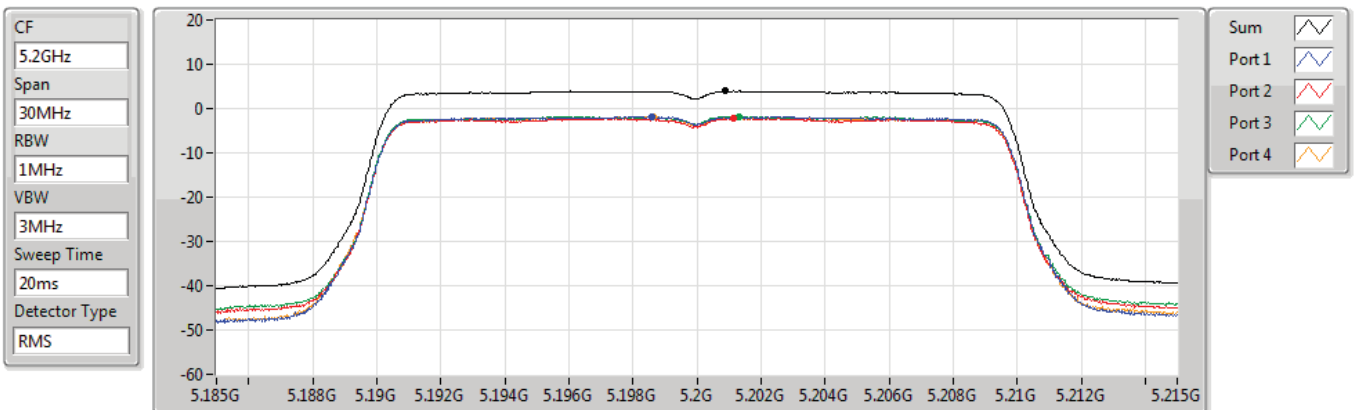
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
3.75	3.75	-1.97	-1.98	-2.29	-2.17

802.11ax HEW20_Nss1,(MCS0)_4TX

PSD

5200MHz

20/12/2021



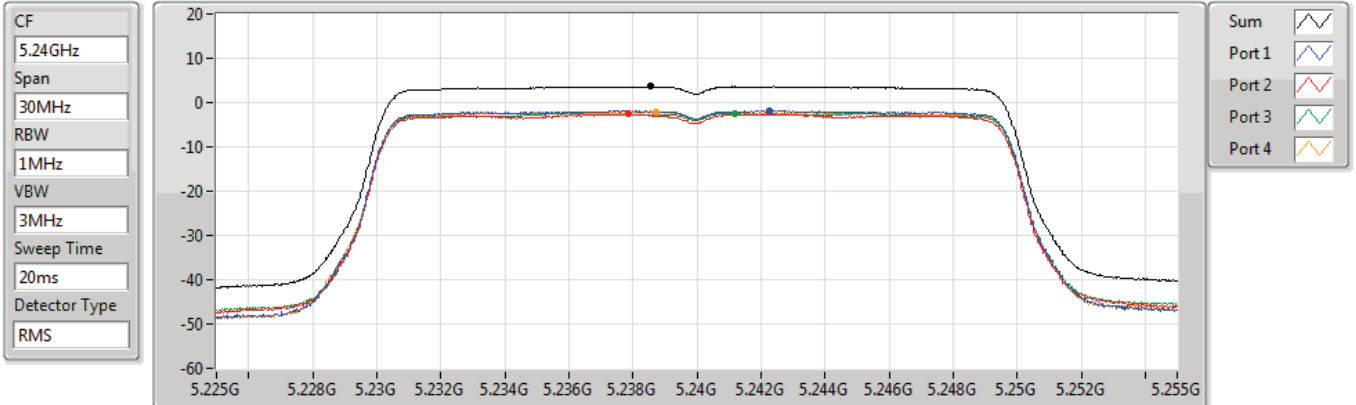
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
3.93	3.93	-1.90	-2.24	-1.75	-1.82

802.11ax HEW20_Nss1,(MCS0)_4TX

PSD

5240MHz

20/12/2021



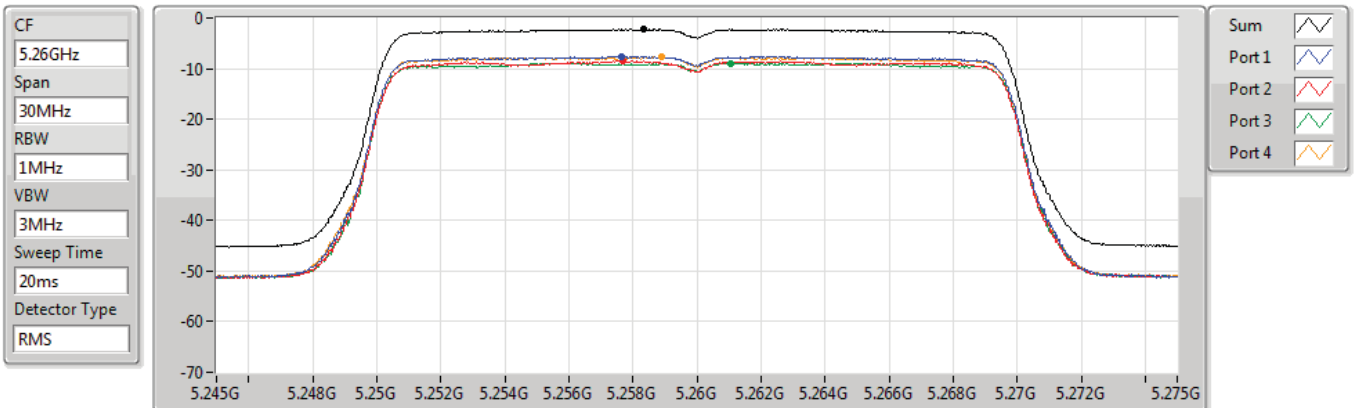
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
3.61	3.61	-1.85	-2.62	-2.43	-2.10

802.11ax HEW20_Nss1,(MCS0)_4TX

PSD

5260MHz

20/12/2021



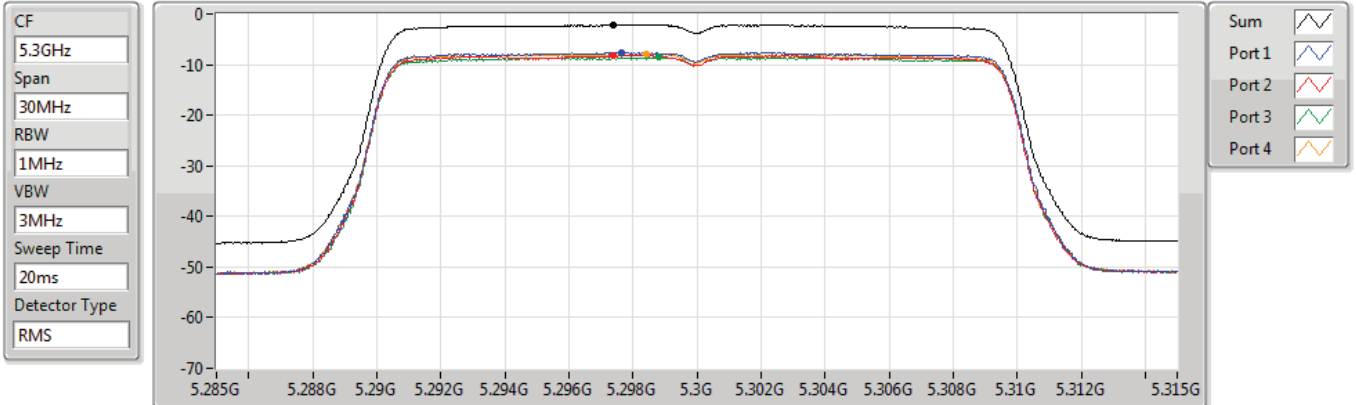
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
-2.28	-2.28	-7.56	-8.49	-8.93	-7.70

802.11ax HEW20_Nss1,(MCS0)_4TX

PSD

5300MHz

20/12/2021



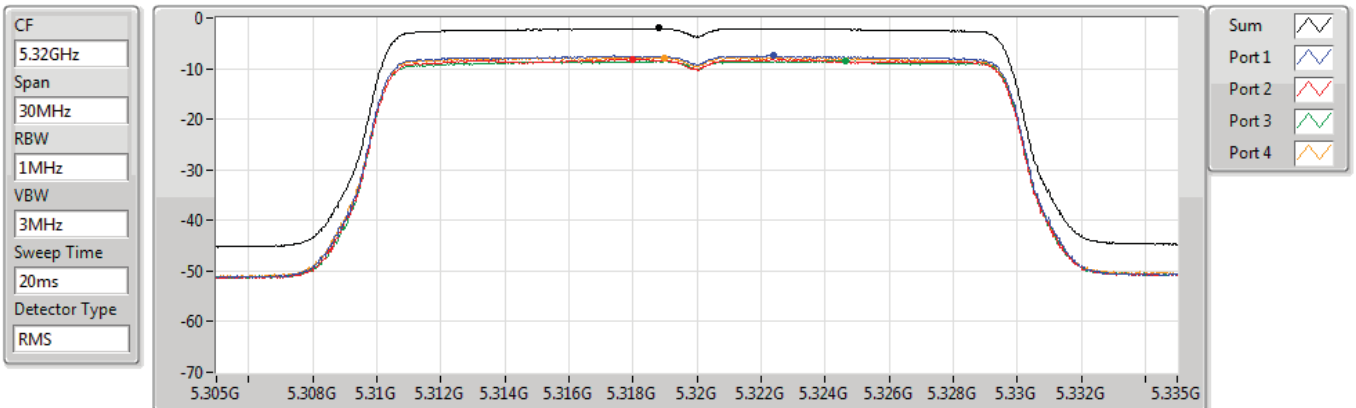
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-2.16	-2.16	-7.59	-8.18	-8.60	-7.93

802.11ax HEW20_Nss1,(MCS0)_4TX

PSD

5320MHz

20/12/2021



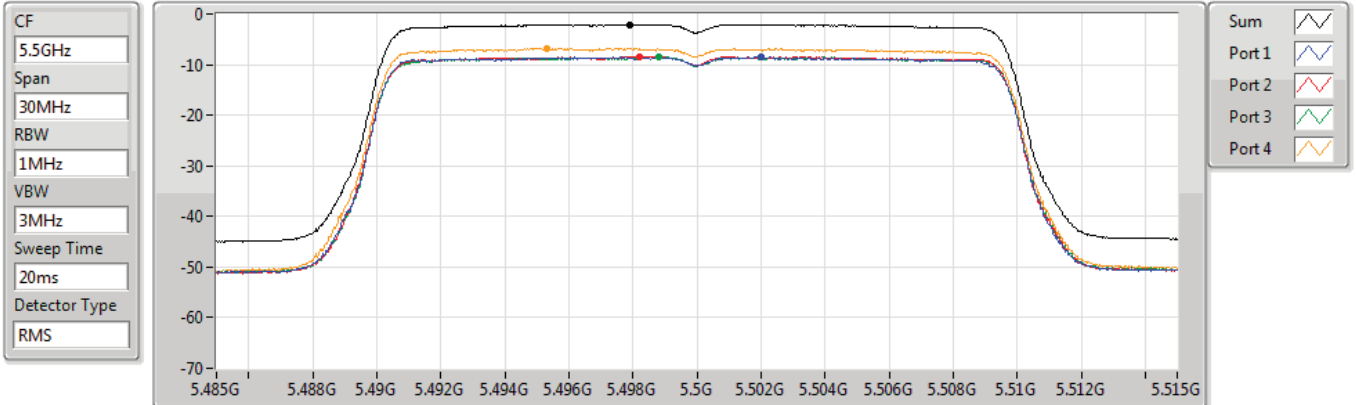
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-2.05	-2.05	-7.38	-8.14	-8.48	-7.81

802.11ax HEW20_Nss1,(MCS0)_4TX

PSD

5500MHz

20/12/2021



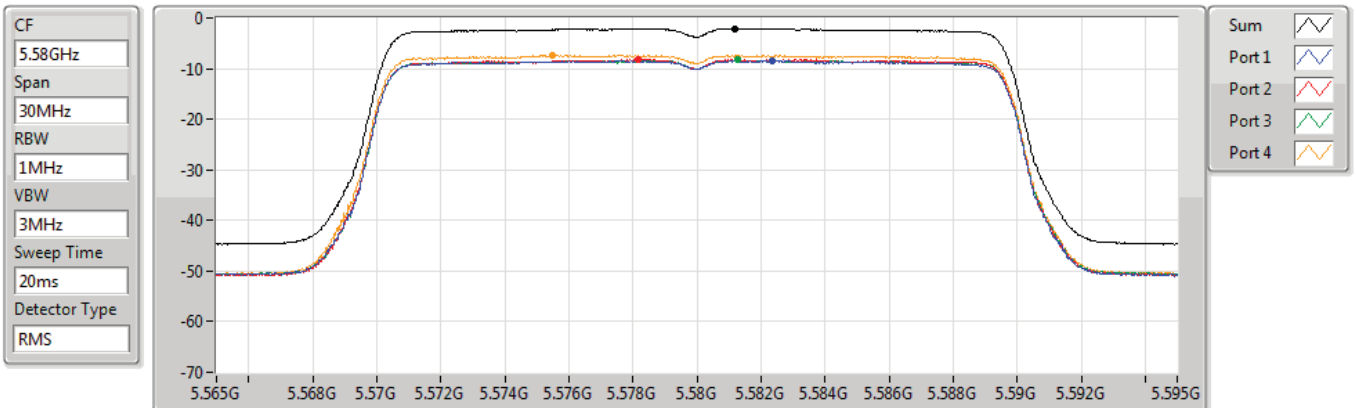
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-2.11	-2.11	-8.54	-8.41	-8.48	-6.79

802.11ax HEW20_Nss1,(MCS0)_4TX

PSD

5580MHz

20/12/2021



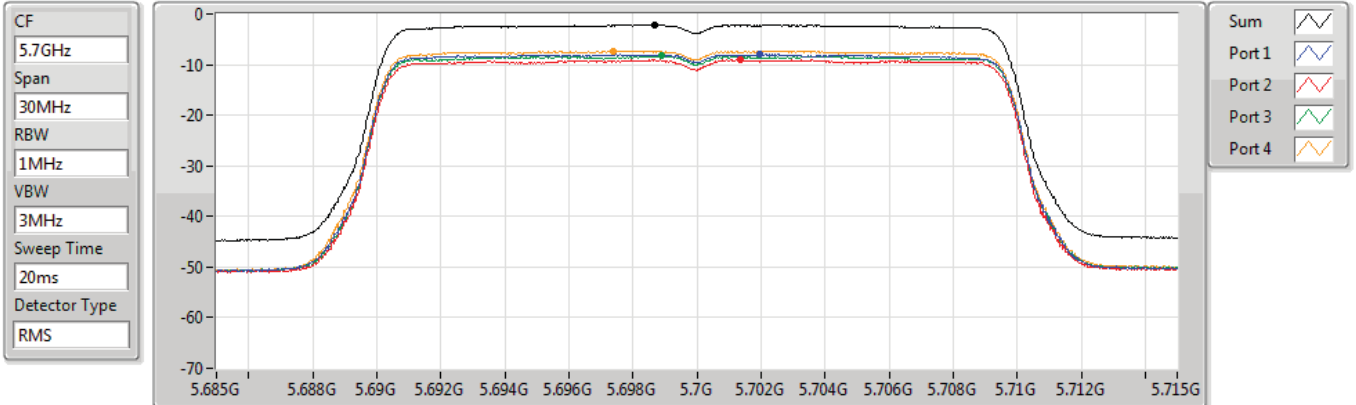
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-2.12	-2.12	-8.46	-8.23	-8.29	-7.38

802.11ax HEW20_Nss1,(MCS0)_4TX

PSD

5700MHz

20/12/2021

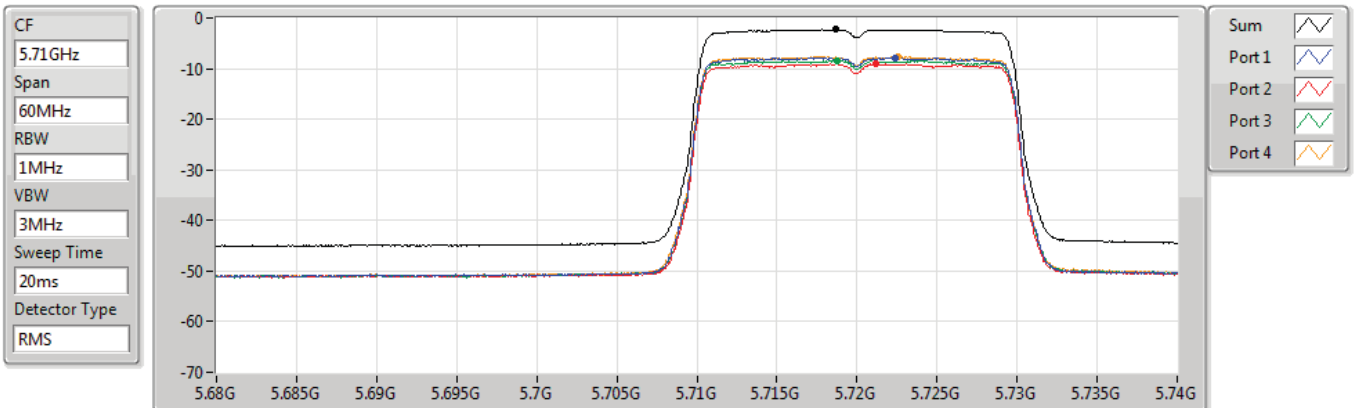


802.11ax HEW20_Nss1,(MCS0)_4TX

PSD

5720MHz Straddle 5.47-5.725GHz

20/12/2021

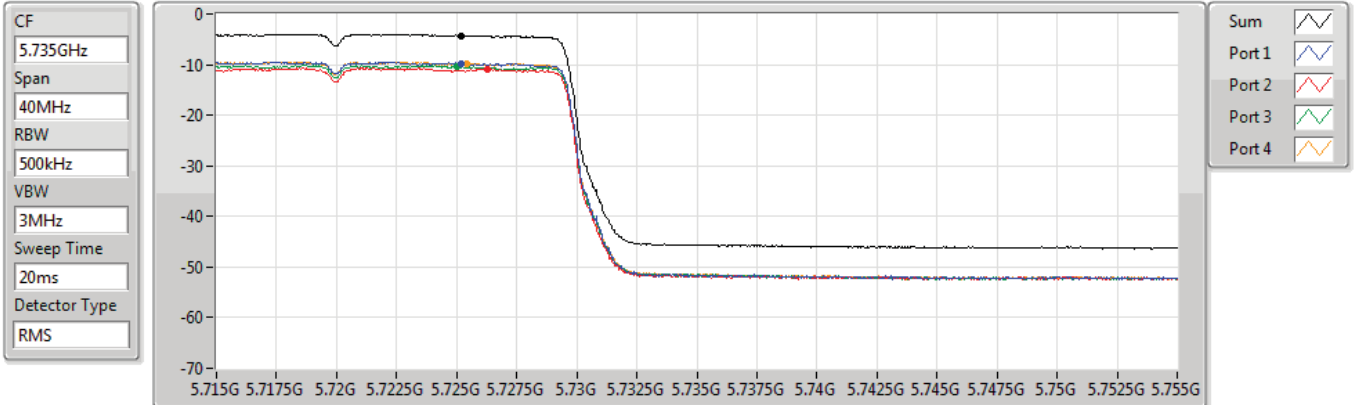


802.11ax HEW20_Nss1,(MCS0)_4TX

5720MHz Straddle 5.725-5.85GHz

PSD

20/12/2021

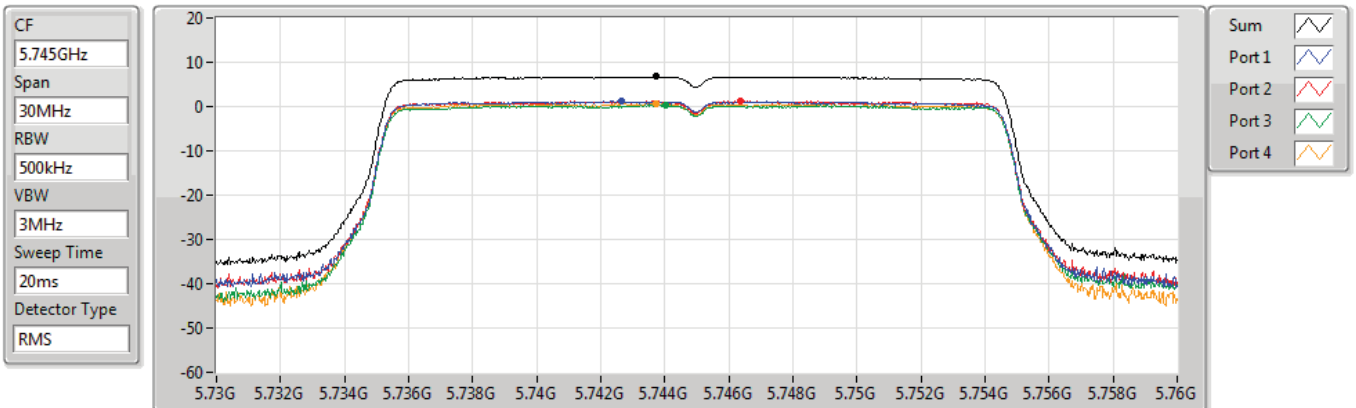


802.11ax HEW20_Nss1,(MCS0)_4TX

5745MHz

PSD

20/12/2021

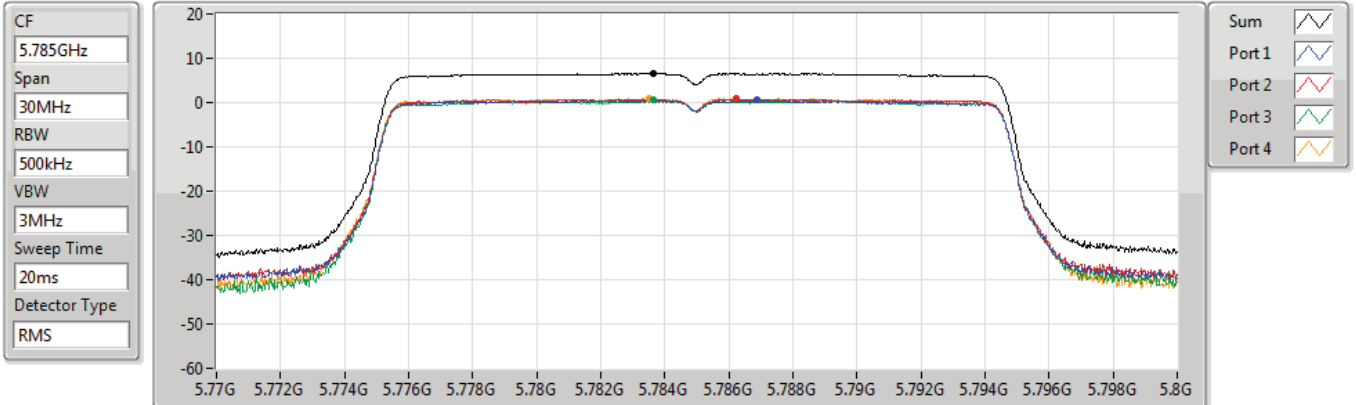


802.11ax HEW20_Nss1,(MCS0)_4TX

5785MHz

PSD

20/12/2021



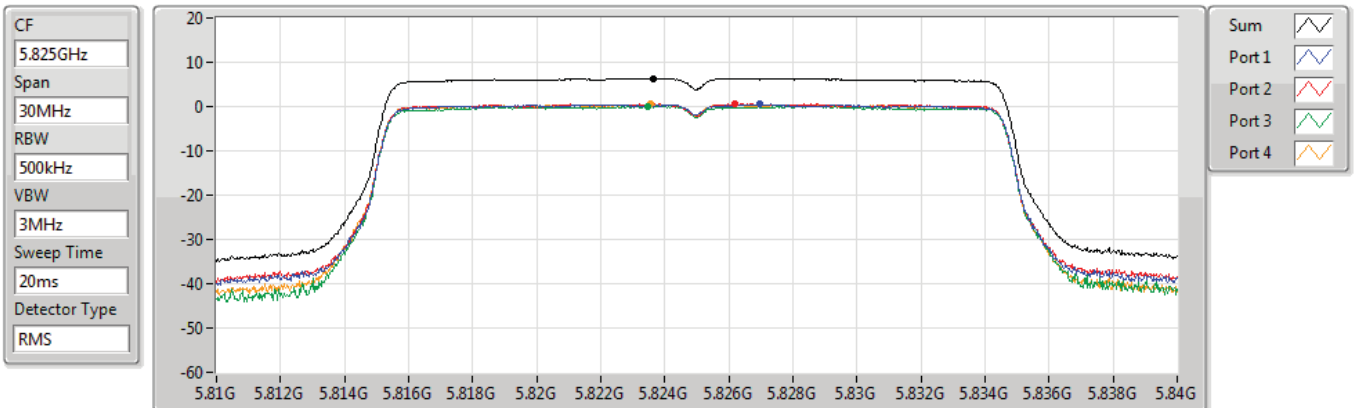
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)
6.59	6.59	0.51	0.83	0.47	0.85

802.11ax HEW20_Nss1,(MCS0)_4TX

5825MHz

PSD

20/12/2021



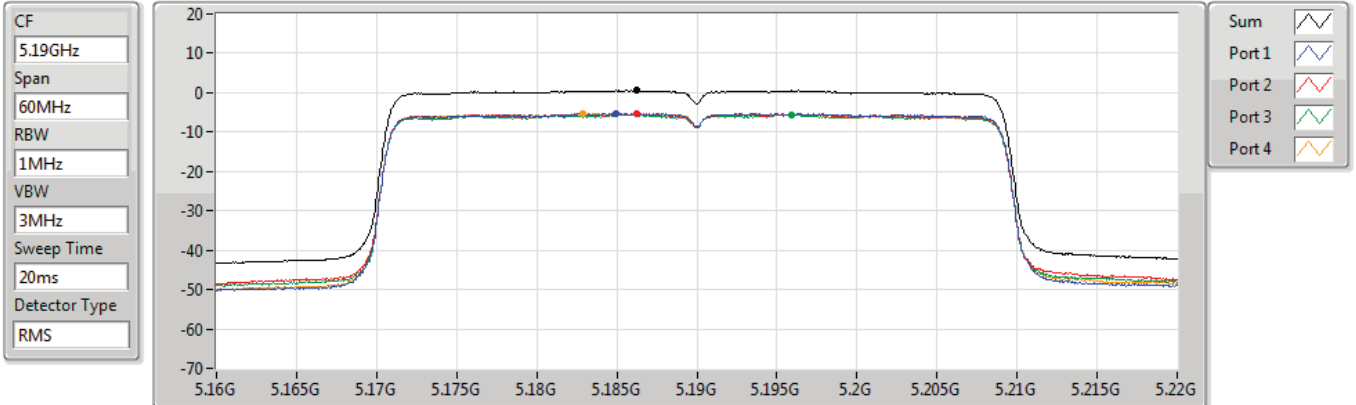
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)
6.34	6.34	0.55	0.62	0.12	0.52

802.11ax HEW40_Nss1,(MCS0)_4TX

PSD

5190MHz

20/12/2021



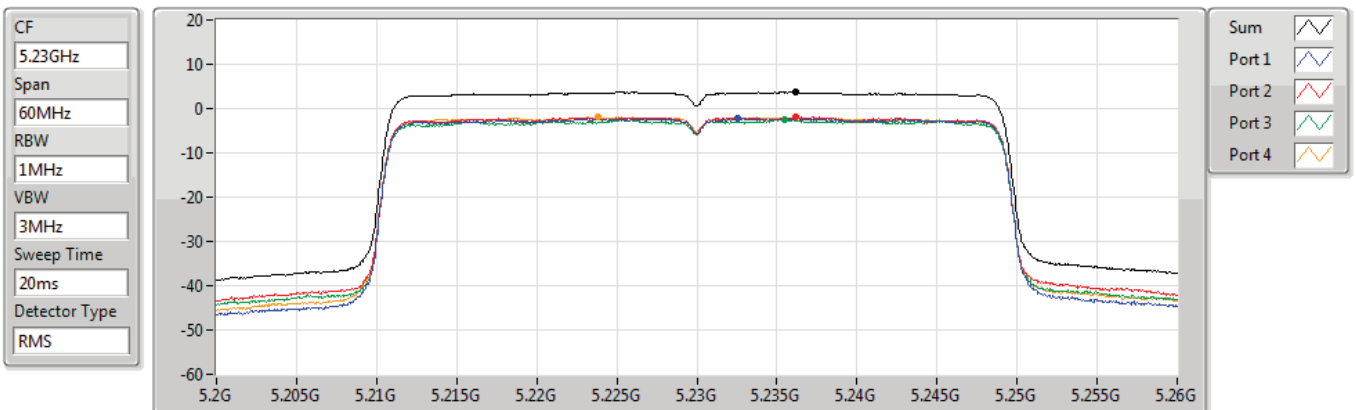
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
0.54	0.54	-5.27	-5.30	-5.49	-5.26

802.11ax HEW40_Nss1,(MCS0)_4TX

PSD

5230MHz

20/12/2021



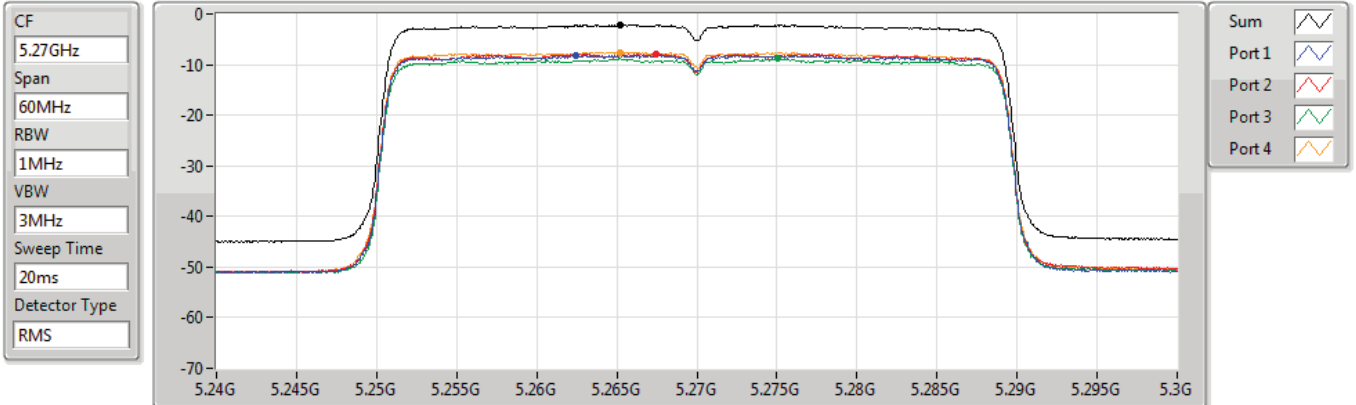
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
3.75	3.75	-2.27	-1.93	-2.50	-1.98

802.11ax HEW40_Nss1,(MCS0)_4TX

PSD

5270MHz

20/12/2021



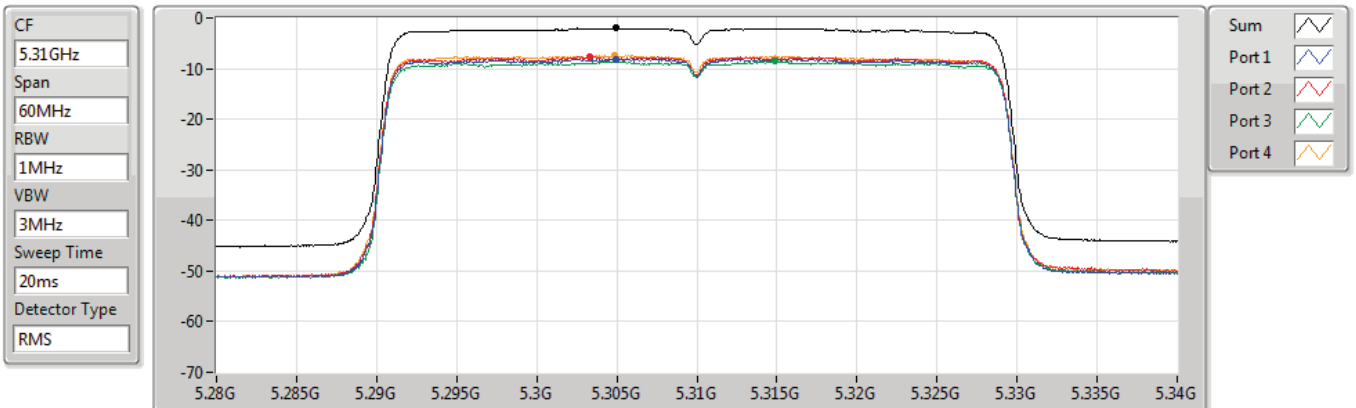
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-2.16	-2.16	-8.13	-7.90	-8.72	-7.53

802.11ax HEW40_Nss1,(MCS0)_4TX

PSD

5310MHz

20/12/2021



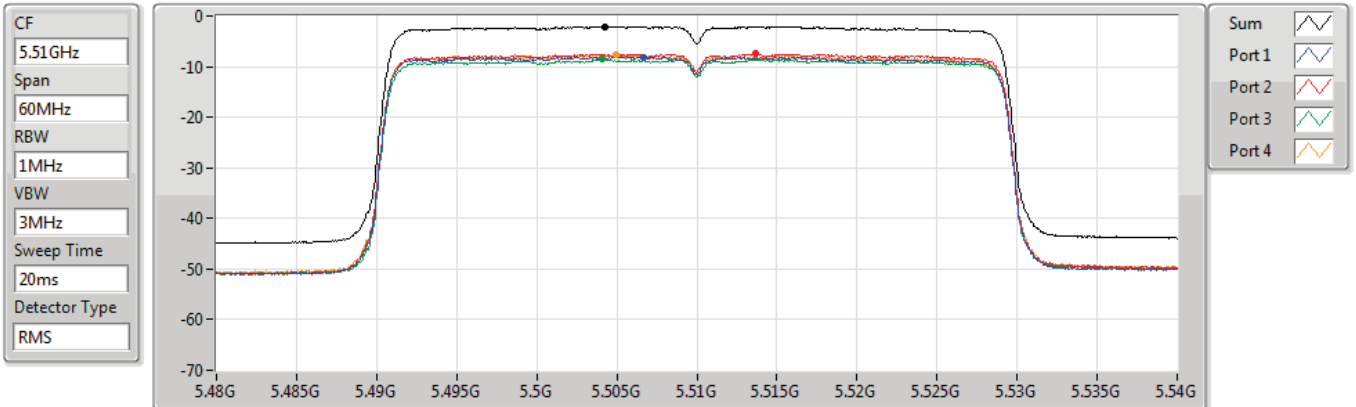
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-2.04	-2.04	-8.07	-7.71	-8.53	-7.42

802.11ax HEW40_Nss1,(MCS0)_4TX

PSD

5510MHz

20/12/2021



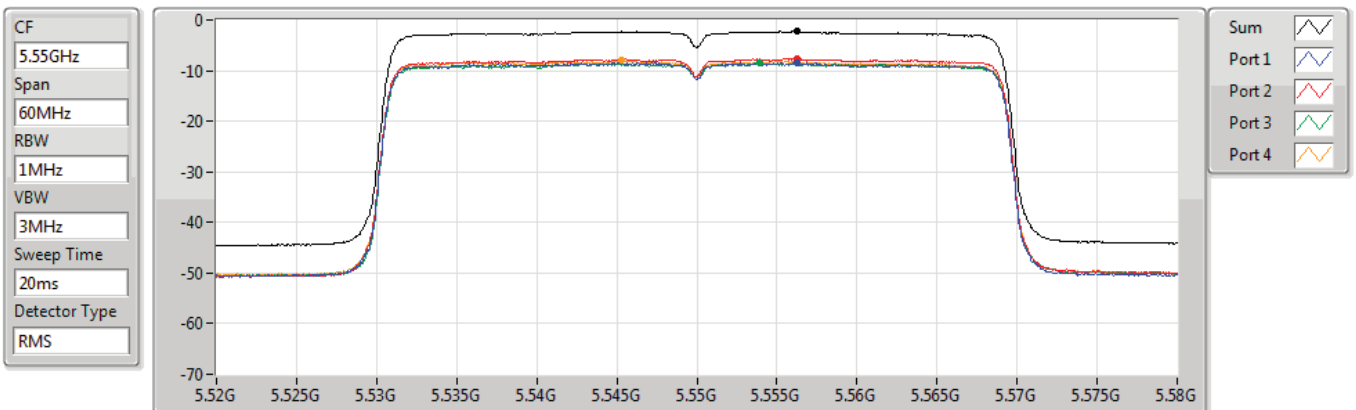
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
-2.08	-2.08	-8.11	-7.47	-8.58	-7.73

802.11ax HEW40_Nss1,(MCS0)_4TX

PSD

5550MHz

20/12/2021



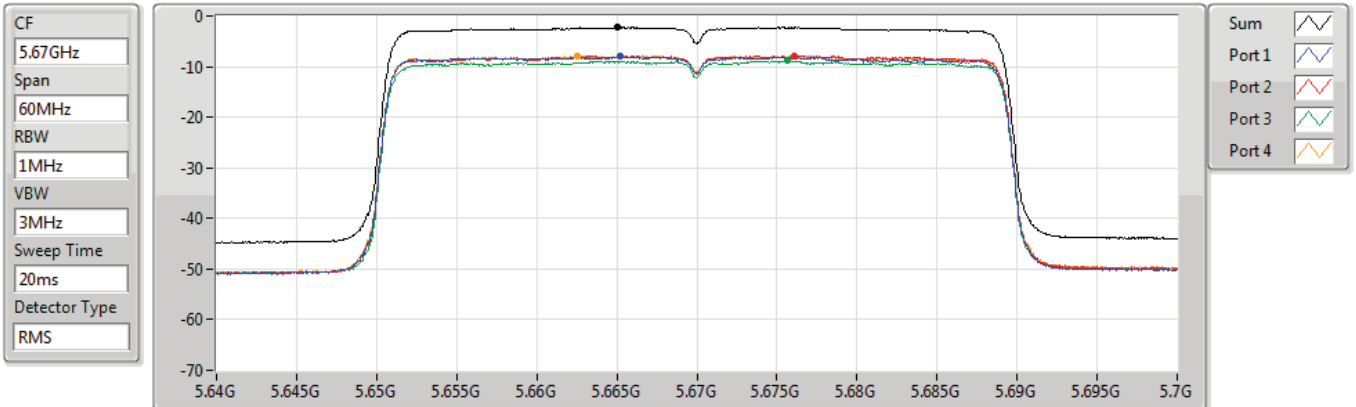
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
-2.24	-2.24	-8.47	-7.63	-8.53	-8.06

802.11ax HEW40_Nss1,(MCS0)_4TX

PSD

5670MHz

20/12/2021

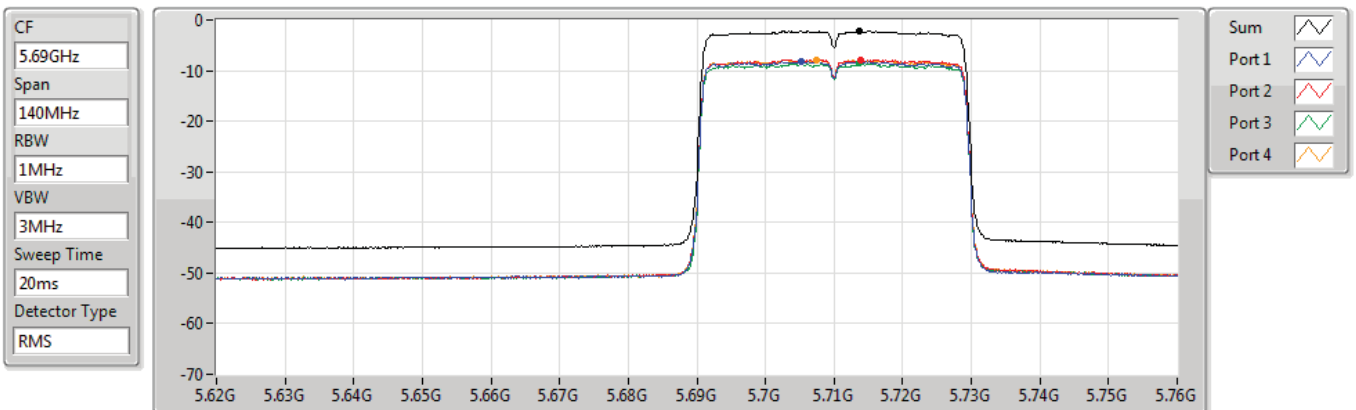


802.11ax HEW40_Nss1,(MCS0)_4TX

PSD

5710MHz Straddle 5.47-5.725GHz

20/12/2021

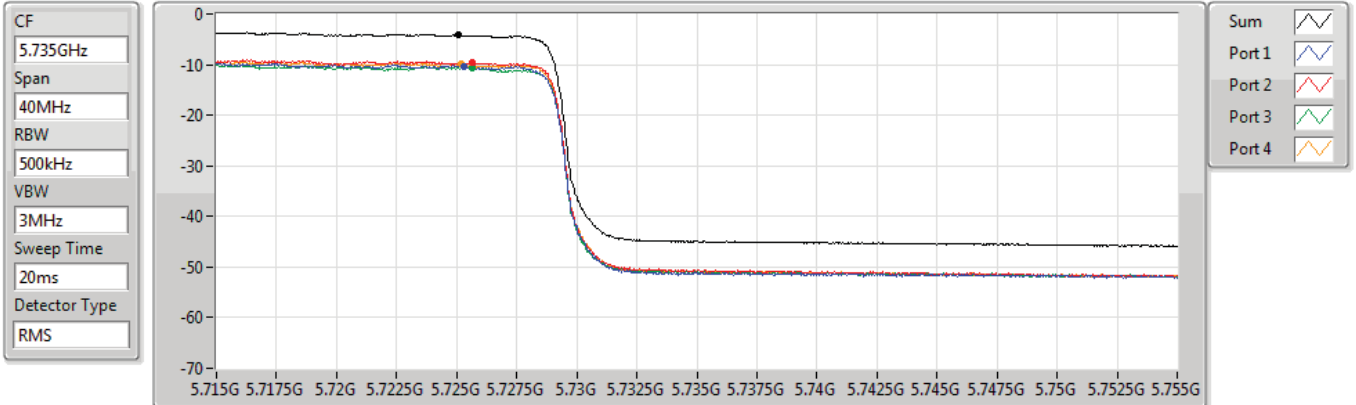


802.11ax HEW40_Nss1,(MCS0)_4TX

5710MHz Straddle 5.725-5.85GHz

PSD

20/12/2021

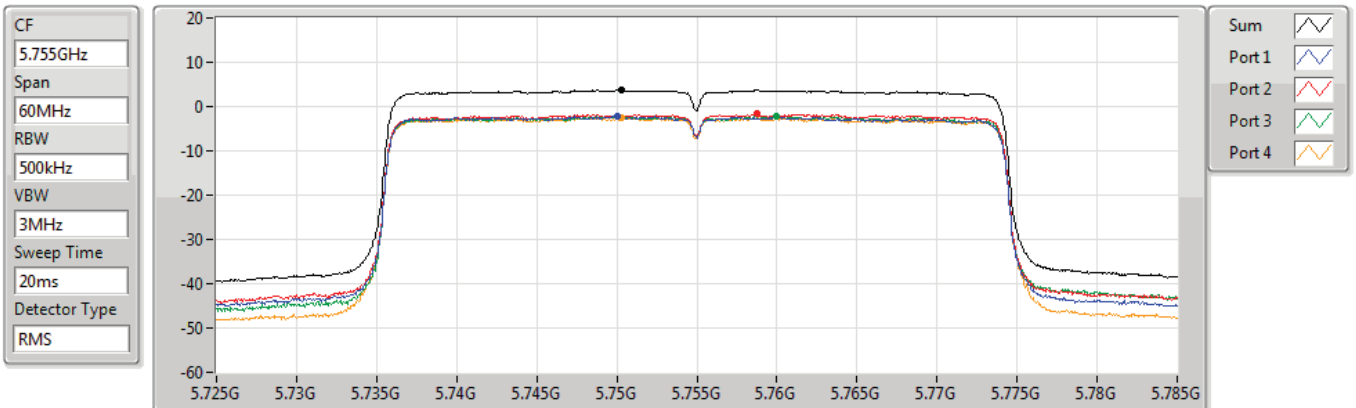


802.11ax HEW40_Nss1,(MCS0)_4TX

5755MHz

PSD

20/12/2021

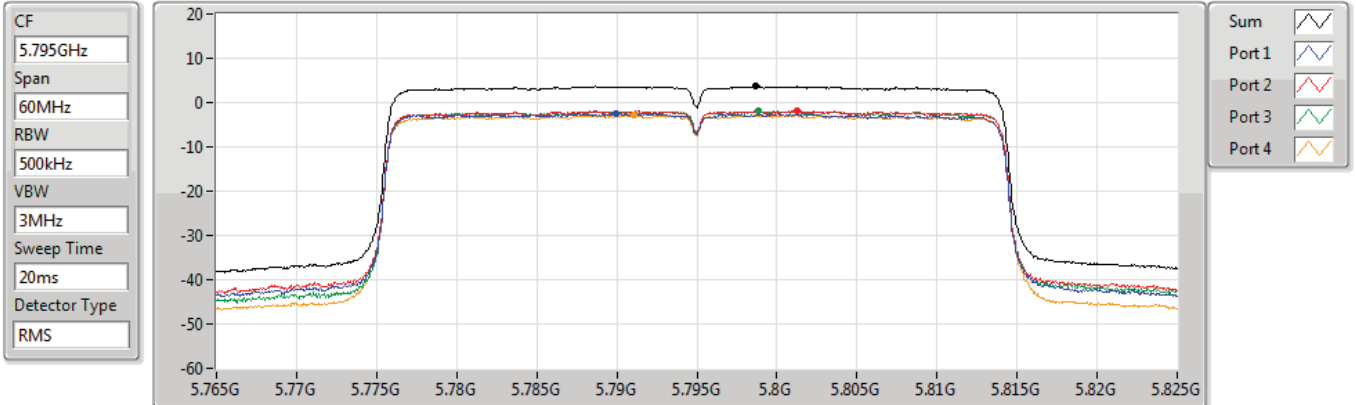


802.11ax HEW40_Nss1,(MCS0)_4TX

PSD

5795MHz

20/12/2021



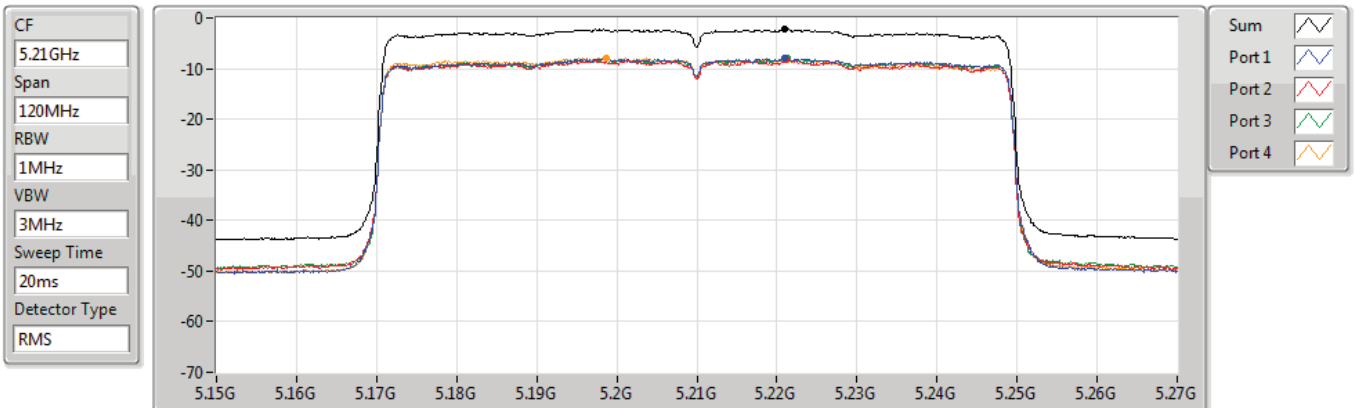
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
3.63	3.63	-2.39	-1.73	-1.85	-2.82

802.11ax HEW80_Nss1,(MCS0)_4TX

PSD

5210MHz

20/12/2021



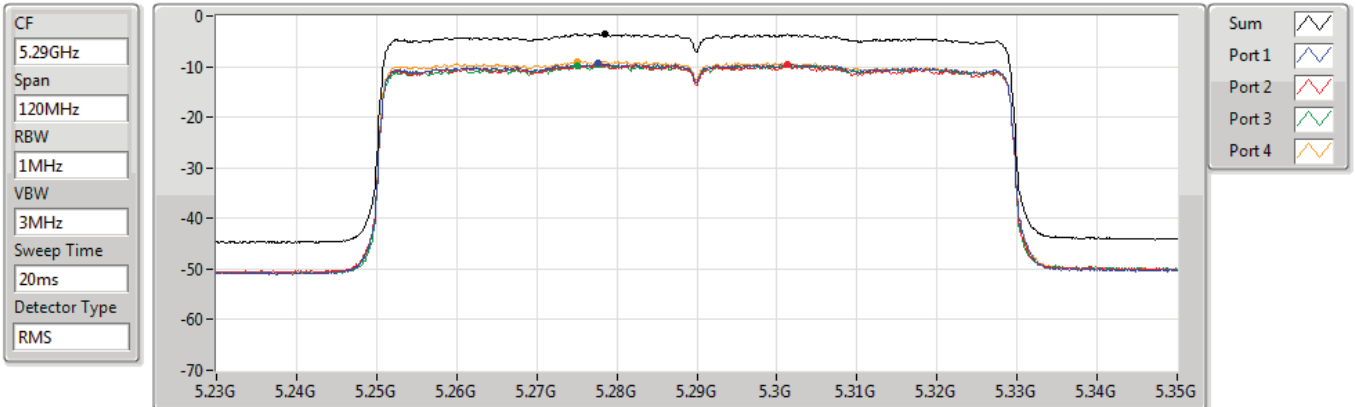
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-2.24	-2.24	-8.05	-8.32	-8.05	-7.83

802.11ax HEW80_Nss1,(MCS0)_4TX

PSD

5290MHz

20/12/2021



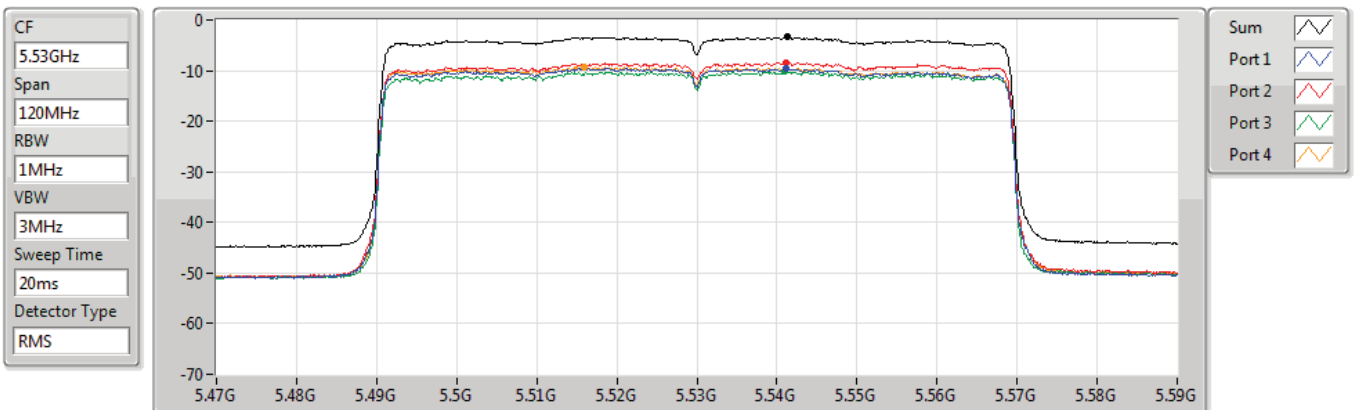
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-3.53	-3.53	-9.39	-9.69	-9.82	-8.96

802.11ax HEW80_Nss1,(MCS0)_4TX

PSD

5530MHz

20/12/2021



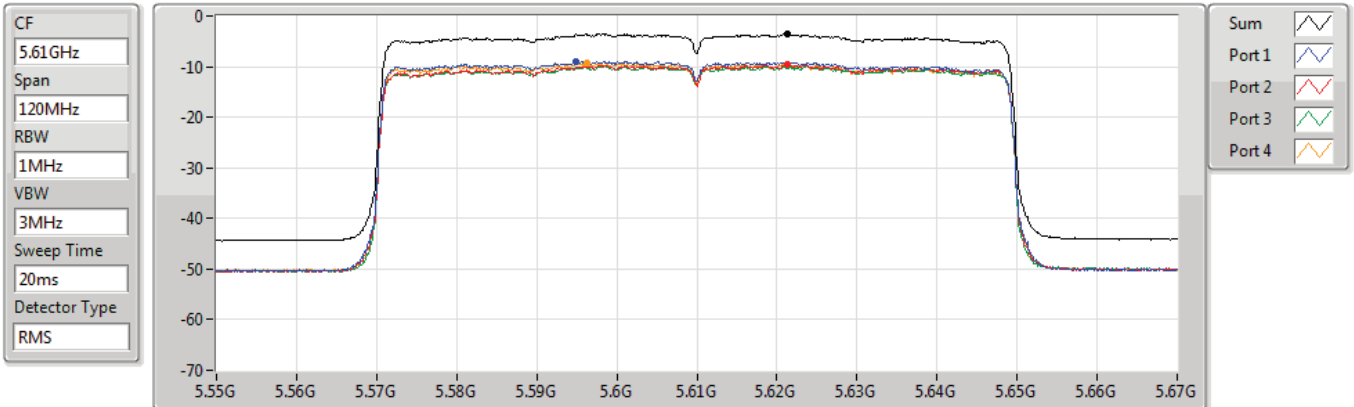
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-3.38	-3.38	-9.55	-8.39	-10.14	-9.32

802.11ax HEW80_Nss1,(MCS0)_4TX

PSD

5610MHz

20/12/2021

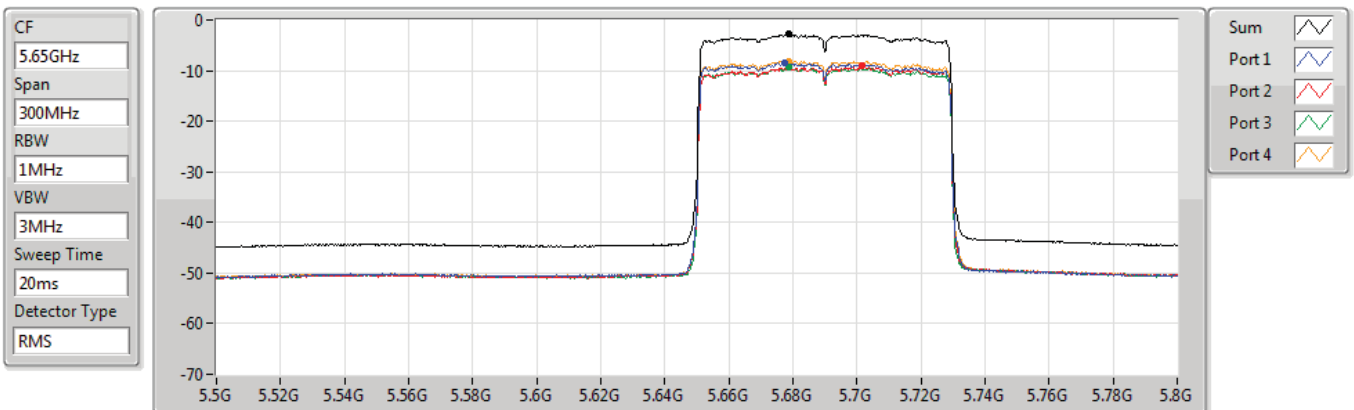


802.11ax HEW80_Nss1,(MCS0)_4TX

PSD

5690MHz Straddle 5.47-5.725GHz

20/12/2021

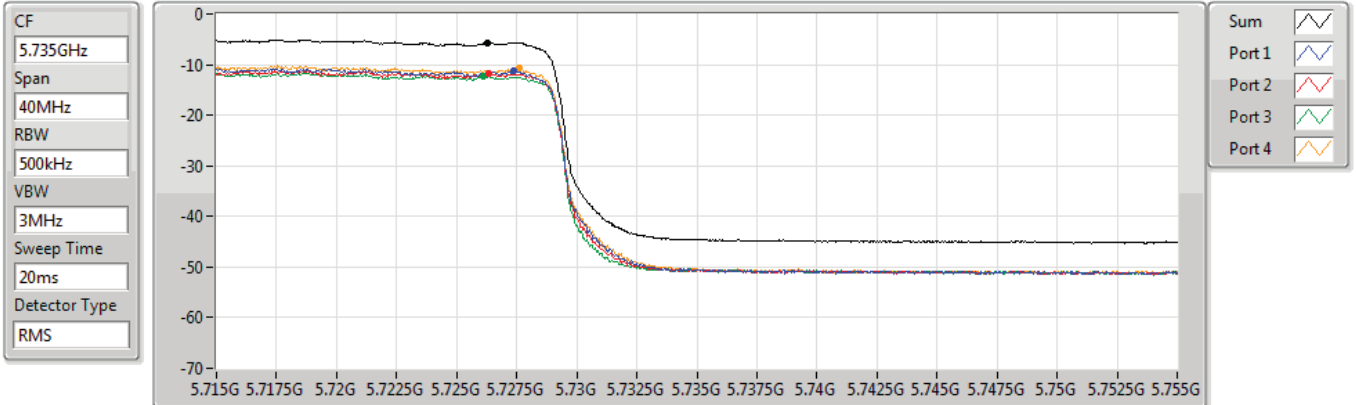


802.11ax HEW80_Nss1,(MCS0)_4TX

5690MHz Straddle 5.725-5.85GHz

PSD

20/12/2021



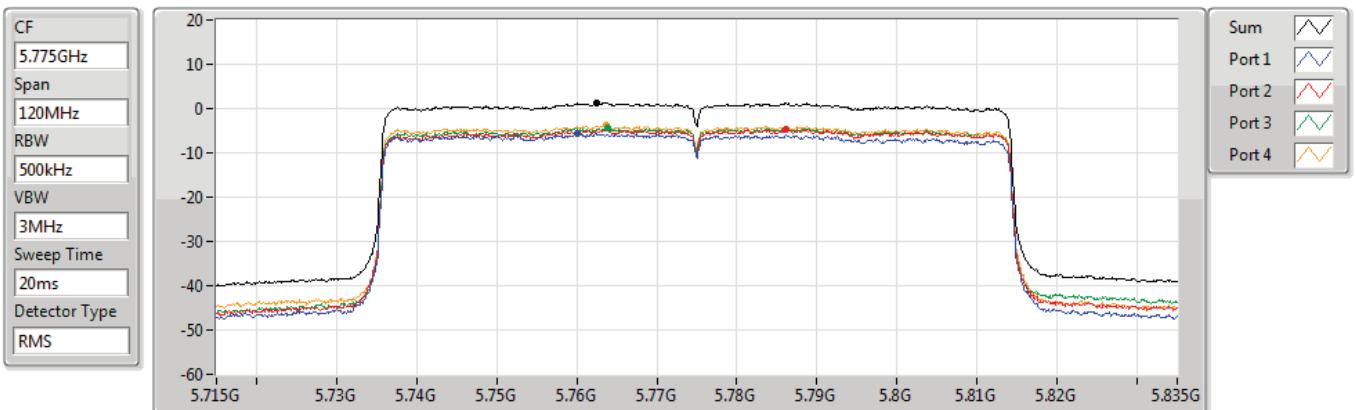
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-5.67	-5.67	-11.29	-11.63	-12.31	-10.78

802.11ax HEW80_Nss1,(MCS0)_4TX

5775MHz

PSD

20/12/2021



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
1.26	1.26	-5.67	-4.58	-4.43	-3.84