



FCC RADIO TEST REPORT

FCC ID : QXO-AP505I
Equipment : 802.11ax Access Point
Brand Name : Extreme Networks
Model Name : AP505i
Applicant : Extreme Networks, Inc.
6480 Via Del Oro, San Jose, CA 95119
Manufacturer : Extreme Networks, Inc.
6480 Via Del Oro, San Jose, CA 95119
Standard : 47 CFR FCC Part 15.407

The product was received on Oct. 22, 2018, and testing was started from Oct. 30, 2018 and completed on Nov. 23, 2018. We, SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown compliance with the applicable technical standards.

The report must not be used by the client to claim product certification, approval, or endorsement by TAF or any agency of government.

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


Approved by: Cliff Chang

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



Summary of Test Result

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

Declaration of Conformity:

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

Comments and Explanations:

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

Reviewed by: Cliff Chang

Report Producer: Wendy Pan

1 General Description

1.1 Information

1.1.1 RF General Information

Frequency Range (MHz)	IEEE Std. 802.11	Ch. Frequency (MHz)	Channel Number
5250-5350	a, n (HT20), ac (VHT20), ax (HEW20)	5260-5320	52-64 [4]
5470-5725		5500-5720	100-144 [12]
5250-5350	n (HT40), ac (VHT40), ax (HEW40)	5270-5310	54-62 [2]
5470-5725		5510-5710	102-142 [6]
5250-5350	ac (VHT80), ax (HEW80)	5290	58 [1]
5470-5725		5530-5690	106-138 [3]
5150-5350	ac (VHT160), ax (HEW160)	5250	50 [1]
5470-5725		5570	114 [1]

Band	Mode	BWch (MHz)	Nant
5.15-5.25GHz	802.11ac VHT160	160	1TX, 2TX, 4TX
5.15-5.25GHz	802.11ax HEW160	160	1TX, 2TX, 4TX
5.15-5.25GHz	802.11ac VHT160-BF	160	2TX, 4TX
5.15-5.25GHz	802.11ax HEW160-BF	160	2TX, 4TX



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

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

Note:

- ♦ 11a, HT20 and HT40 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM modulation.
- ♦ VHT20, VHT40, VHT80 and VHT160 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM, 256QAM modulation.
- ♦ HEW20, HEW40, HEW80 and HEW160 use a combination of OFDMA-BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM modulation.
- ♦ BWch is the nominal channel bandwidth.
- ♦ Nss-Min is the minimum number of spatial streams.
- ♦ Nant is the number of outputs. e.g., 2(2,3) means have 2 outputs for port 2 and port 3. 2 means have 2 outputs for port 1 and port 2.

1.1.2 Antenna Information

Ant.	Port	Brand	Model Name	Antenna Type	Connector	Antenna Gain (dBi)		
						WLAN 2.4GHz	WLAN 5GHz	Bluetooth and Thread
1	1	WNC	Starlord 505 Antenna	PIFA Antenna	I-PEX	3.86	-	-
2	2	WNC	Starlord 505 Antenna	PIFA Antenna	I-PEX	3.97	-	-
3	3	WNC	Starlord 505 Antenna	PIFA Antenna	I-PEX	3.89	-	-
4	4	WNC	Starlord 505 Antenna	PIFA Antenna	I-PEX	3.96	-	-
5	1	WNC	Starlord 505 Antenna	PIFA Antenna	I-PEX	-	5.29	-
6	2	WNC	Starlord 505 Antenna	PIFA Antenna	I-PEX	-	4.91	-
7	3	WNC	Starlord 505 Antenna	PIFA Antenna	I-PEX	-	4.87	-
8	4	WNC	Starlord 505 Antenna	PIFA Antenna	I-PEX	-	4.73	-
9	1	WNC	Starlord 505 Antenna	PIFA Antenna	I-PEX	-	-	4.69

Note: 1.The above information was declared by manufacturer.

2.The EUT has nine antennas.

For 2.4GHz function:

For IEEE 802.11b/g/n/ax mode (1TX, 2TX, 4TX/4RX):

For 1TX

Only Port 1 can be use as transmitting antenna.

For 2TX

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

Port 1 and Port 2 could transmit simultaneously.

For 4TX

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

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

For 4RX

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

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

For 5GHz function:

For IEEE 802.11a/n/ac/ax mode (1TX, 2TX, 4TX/4RX):

For 1TX

Only Port 1 can be use as transmitting antenna.

For 2TX

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



Port 1 and Port 2 could transmit simultaneously.

For 4TX

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

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

For 4RX

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

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

For Bluetooth and Thread mode (1TX/1RX):

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

**1.1.3 Mode Test Duty Cycle****For 1T1S Mode:**

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq 1/T$
802.11a	0.947	0.237	2.064m	1k
802.11ax HEW20	0.984	0.07	n/a (DC $\geq$ 0.98)	n/a (DC $\geq$ 0.98)
802.11ax HEW40	0.971	0.128	911.25u	3k
802.11ax HEW80	0.948	0.232	474.375u	3k
802.11ax HEW160	0.909	0.414	273.75u	10k

For 2T2S Mode:

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq 1/T$
802.11ax HEW20	0.97	0.132	926.25u	3k
802.11ax HEW40	0.932	0.306	423.75u	3k
802.11ax HEW80	0.892	0.496	241.25u	10k
802.11ax HEW160	0.906	0.429	273.75u	10k

For 4T1S Mode:

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq 1/T$
802.11a	0.947	0.237	2.064m	1k
802.11ax HEW20	0.984	0.07	n/a (DC $\geq$ 0.98)	n/a (DC $\geq$ 0.98)
802.11ax HEW40	0.971	0.128	911.25u	3k
802.11ax HEW80	0.948	0.232	474.375u	3k
802.11ax HEW160	0.906	0.429	273.75u	10k
802.11ax HEW20-BF	0.853	0.691	1.5m	1k
802.11ax HEW40-BF	0.888	0.516	2.345m	1k
802.11ax HEW80-BF	0.925	0.339	3.835m	300
802.11ax HEW160-BF	0.889	0.511	3.835m	300

For 4T4S Mode:

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq 1/T$
802.11ax HEW20	0.935	0.292	437.5u	3k
802.11ax HEW40	0.923	0.348	330u	10k
802.11ax HEW80	0.89	0.506	221.25u	10k
802.11ax HEW160	0.858	0.665	170u	10k

Note:

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

**1.1.4 EUT Operational Condition**

EUT Power Type	From Power Adapter or PoE		
Beamforming Function	☒ With beamforming	☐ Without beamforming	
For 802.11ax in 2.4GHz and 802.11n/ac/ax in 5GHz.			
Weather Band	☒ With 5600~5650MHz	☐ Without 5600~5650MHz	
Function	☐ Outdoor P2M	☒ Indoor P2M	
	☐ Fixed P2P	☐ Client	
TPC Function	☒ With TPC	☐ Without TPC	
Test Software Version	Mtool_Rel_3_0_0_6		

Note: The above information was declared by manufacturer.

1.1.5 Table for EUT support function

Function	Support Type	Support Band
AP	Master	WLAN 2.4GHz/Bluetooth/Thread/WLAN 5GHz Band 1~4
Client	Slave without Radar Detection	WLAN 2.4GHz/Bluetooth/Thread/WLAN 5GHz Band 1+4
Bridge	Master	WLAN 2.4GHz/Bluetooth/Thread/WLAN 5GHz Band 1+4
Mesh	Master	WLAN 2.4GHz/Bluetooth/Thread/WLAN 5GHz Band 1+4

Note: The above information was declared by manufacturer.

1.1.6 Table for Class II Change

This product is an extension of original one reported under Sporton project number: FR8O1737AD

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

Modifications	Performance Checking
- Adding 5GHz band 2 and band 3 (5250~5350 MHz, 5470~5725 MHz) for this device. - Adding 802.11ac 160MHz and 802.11ax 160MHz Mode.	- Emission Bandwidth. - Maximum Conducted Output Power. - Peak Power Spectral Density. - Unwanted Emissions Radiated Emission >1GHz and Band Edge Emission.



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
- ♦ FCC KDB 789033 D02 v02r01
- ♦ FCC KDB 662911 D01 v02r01
- ♦ FCC KDB 412172 D01 v01r01

1.3 Testing Location Information

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

Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date
RF Conducted	TH01-CB	Eddie Weng	23°C / 61%	Nov. 15, 2018
Radiated	03CH01-CB	RJ Huang	22°C / 54%	Oct. 30, 2018 ~ Nov. 23, 2018

Test site Designation No. TW0006 with FCC

Test site registered number IC 4086D with Industry Canada.

1.4 Measurement Uncertainty

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

Test Items	Uncertainty	Remark
Radiated Emission (1GHz ~ 18GHz)	3.7 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	3.5 dB	Confidence levels of 95%
Conducted Emission	1.7 dB	Confidence levels of 95%
Output Power Measurement	1.33 dB	Confidence levels of 95%
Power Density Measurement	1.27 dB	Confidence levels of 95%
Bandwidth Measurement	9.74×10^{-8}	Confidence levels of 95%



2 Test Configuration of EUT

2.1 Test Channel Mode

For 1T1S Mode:

For Conducted measurement and Band Edge Emission test:

Mode	PowerSetting	PowerSetting (dBm)
802.11a_Nss1,(6Mbps)_1TX	-	-
5260MHz	97	24.25
5300MHz	97	24.25
5320MHz	80	20
5500MHz	76	19
5580MHz	95	23.75
5700MHz	75	18.75
5720MHz Straddle 5.47-5.725GHz	97	24.25
5720MHz Straddle 5.725-5.85GHz	97	24.25
802.11ax HEW20_Nss1,(MCS0)_1TX	-	-
5260MHz	96	24
5300MHz	96	24
5320MHz	79	19.75
5500MHz	73	18.25
5580MHz	93	23.25
5700MHz	75	18.75
5720MHz Straddle 5.47-5.725GHz	94	23.5
5720MHz Straddle 5.725-5.85GHz	94	23.5
802.11ax HEW40_Nss1,(MCS0)_1TX	-	-
5270MHz	94	23.5
5310MHz	76	19
5510MHz	71	17.75
5550MHz	87	21.75
5670MHz	78	19.5
5710MHz Straddle 5.47-5.725GHz	98	24.5
5710MHz Straddle 5.725-5.85GHz	98	24.5
802.11ax HEW80_Nss1,(MCS0)_1TX	-	-
5290MHz	73	18.25
5530MHz	69	17.25
5610MHz	81	20.25
5690MHz Straddle 5.47-5.725GHz	94	23.5
5690MHz Straddle 5.725-5.85GHz	94	23.5
802.11ax HEW160_Nss1,(MCS0)_1TX	-	-
5250MHz Straddle 5.15-5.25GHz	72	18



Mode	PowerSetting	PowerSetting (dBm)
5250MHz Straddle 5.25-5.35GHz	72	18
5570MHz	66	16.5

For 2T2S Mode:**For Conducted measurement and Band Edge Emission test:**

Mode	PowerSetting	PowerSetting (dBm)
802.11ax HEW20_Nss2,(MCS0)_2TX	-	-
5260MHz	83	20.75
5300MHz	83	20.75
5320MHz	75	18.75
5500MHz	73	18.25
5580MHz	80	20
5700MHz	69	17.25
5720MHz Straddle 5.47-5.725GHz	85	21.25
5720MHz Straddle 5.725-5.85GHz	85	21.25
802.11ax HEW40_Nss2,(MCS0)_2TX	-	-
5270MHz	84	21
5310MHz	67	16.75
5510MHz	66	16.5
5550MHz	81	20.25
5670MHz	71	17.75
5710MHz Straddle 5.47-5.725GHz	85	21.25
5710MHz Straddle 5.725-5.85GHz	85	21.25
802.11ax HEW80_Nss2,(MCS0)_2TX	-	-
5290MHz	66	16.5
5530MHz	62	15.5
5610MHz	76	19
5690MHz Straddle 5.47-5.725GHz	83	20.75
5690MHz Straddle 5.725-5.85GHz	83	20.75
802.11ax HEW160_Nss2,(MCS0)_2TX	-	-
5250MHz Straddle 5.15-5.25GHz	57	14.25
5250MHz Straddle 5.25-5.35GHz	57	14.25
5570MHz	57	14.25

**For 4T1S Mode:****For Radiated Emission test:**

Mode	PowerSetting
802.11a_Nss1,(6Mbps)_4TX	-
5260MHz	108
5300MHz	108
5320MHz	110
5500MHz	105
5580MHz	100
5700MHz	104
5720MHz Straddle 5.47-5.725GHz	101
5720MHz Straddle 5.725-5.850GHz	101
802.11ax HEW20_Nss1,(MCS0)_4TX	-
5260MHz	98
5300MHz	104
5320MHz	104
5500MHz	88
5580MHz	104
5700MHz	96
5720MHz Straddle 5.47-5.725GHz	94
5720MHz Straddle 5.725-5.850GHz	94
802.11ax HEW40_Nss1,(MCS0)_4TX	-
5270MHz	109
5310MHz	110
5510MHz	98
5550MHz	99
5670MHz	110
5710MHz Straddle 5.47-5.725GHz	110
5710MHz Straddle 5.725-5.850GHz	110
802.11ax HEW80_Nss1,(MCS0)_4TX	-
5290MHz	110
5530MHz	110
5610MHz	110
5690MHz Straddle 5.47-5.725GHz	110
5690MHz Straddle 5.47-5.725GHz	110
802.11ax HEW160_Nss1,(MCS0)_4TX	-
5250MHz Straddle 5.15-5.25GHz	110
5250MHz Straddle 5.25-5.35GHz	110
5570MHz	110

**For Conducted measurement and Band Edge Emission test:**

Mode	PowerSetting	PowerSetting (dBm)
802.11a_Nss1,(6Mbps)_4TX	-	-
5260MHz	54	13.5
5300MHz	54	13.5
5320MHz	54	13.5
5500MHz	53	13.25
5580MHz	54	13.5
5700MHz	56	14
5720MHz Straddle 5.47-5.725GHz	57	14.25
5720MHz Straddle 5.725-5.85GHz	57	14.25
802.11ax HEW20_Nss1,(MCS0)_4TX	-	-
5260MHz	55	13.75
5300MHz	55	13.75
5320MHz	55	13.75
5500MHz	54	13.5
5580MHz	55	13.75
5700MHz	57	14.25
5720MHz Straddle 5.47-5.725GHz	59	14.75
5720MHz Straddle 5.725-5.85GHz	59	14.75
802.11ax HEW40_Nss1,(MCS0)_4TX	-	-
5270MHz	67	16.75
5310MHz	58	14.5
5510MHz	57	14.25
5550MHz	66	16.5
5670MHz	67	16.75
5710MHz Straddle 5.47-5.725GHz	69	17.25
5710MHz Straddle 5.725-5.85GHz	69	17.25
802.11ax HEW80_Nss1,(MCS0)_4TX	-	-
5290MHz	53	13.25
5530MHz	54	13.5
5610MHz	70	17.5
5690MHz Straddle 5.47-5.725GHz	73	18.25
5690MHz Straddle 5.725-5.85GHz	73	18.25
802.11ax HEW160_Nss1,(MCS0)_4TX	-	-
5250MHz Straddle 5.15-5.25GHz	46	11.5
5250MHz Straddle 5.25-5.35GHz	46	11.5
5570MHz	45	11.25
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	-	-
5260MHz	49	12.25
5300MHz	49	12.25



Mode	PowerSetting	PowerSetting (dBm)
5320MHz	49	12.25
5500MHz	49	12.25
5580MHz	49	12.25
5700MHz	51	12.75
5720MHz Straddle 5.47-5.725GHz	51	12.75
5720MHz Straddle 5.725-5.85GHz	51	12.75
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	-	-
5270MHz	51	12.75
5310MHz	52	13
5510MHz	49	12.25
5550MHz	49	12.25
5670MHz	50	12.5
5710MHz Straddle 5.47-5.725GHz	52	13
5710MHz Straddle 5.725-5.85GHz	52	13
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	-	-
5290MHz	53	13.25
5530MHz	49	12.25
5610MHz	50	12.5
5690MHz Straddle 5.47-5.725GHz	52	13
5690MHz Straddle 5.725-5.85GHz	52	13
5775MHz		
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	-	-
5250MHz Straddle 5.15-5.25GHz	56	14
5250MHz Straddle 5.25-5.35GHz	56	14
5570MHz	49	12.25

**For 4T4S Mode:****For Conducted measurement and Band Edge Emission test:**

Mode	PowerSetting	PowerSetting (dBm)
802.11ax HEW20_Nss4,(MCS0)_4TX	-	-
5260MHz	70	17.5
5300MHz	70	17.5
5320MHz	68	17
5500MHz	65	16.25
5580MHz	69	17.25
5700MHz	63	15.75
5720MHz Straddle 5.47-5.725GHz	74	18.5
5720MHz Straddle 5.725-5.85GHz	74	18.5
802.11ax HEW40_Nss4,(MCS0)_4TX	-	-
5270MHz	72	18
5310MHz	55	13.75
5510MHz	60	15
5550MHz	70	17.5
5670MHz	65	16.25
5710MHz Straddle 5.47-5.725GHz	75	18.75
5710MHz Straddle 5.725-5.85GHz	75	18.75
802.11ax HEW80_Nss4,(MCS0)_4TX	-	-
5290MHz	55	13.75
5530MHz	55	13.75
5610MHz	71	17.75
5690MHz Straddle 5.47-5.725GHz	73	18.25
5690MHz Straddle 5.725-5.85GHz	73	18.25
802.11ax HEW160_Nss4,(MCS0)_4TX	-	-
5250MHz Straddle 5.15-5.25GHz	48	12
5250MHz Straddle 5.25-5.35GHz	48	12
5570MHz	51	12.75



2.2 The Worst Case Measurement Configuration

The Worst Case Mode for Following Conformance Tests	
Tests Item	Emission Bandwidth Maximum Conducted Output Power Peak Power Spectral Density
Test Condition	Conducted measurement at transmit chains
Test Mode	Refer to note 1

The Worst Case Mode for Following Conformance Tests	
Tests Item	Unwanted Emissions
Test Condition	Radiated measurement If EUT consist of multiple antenna assembly (multiple antenna are used in EUT regardless of spatial multiplexing MIMO configuration), the radiated test should be performed with highest antenna gain of each antenna type.
Operating Mode > 1GHz	CTX
For Radiated Emission 4T1S Mode: The EUT was performed at Y axis and Z axis and the worst case was found at Z axis. So the measurement will follow this same test configuration.	
For Band Edge Emission 1T1S Mode: The EUT was performed at Y axis and Z axis position and the worst case was found at Y axis. So the measurement will follow this same test configuration. 2T2S, 4T1S, 4T4S Mode: The EUT was performed at Y axis and Z axis and the worst case was found at Z axis. So the measurement will follow this same test configuration.	
Test Mode	Refer to note 1

The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis - Co-location RF Exposure Evaluation
Operating Mode	
1	WLAN 2.4GHz + WLAN 5GHz + Bluetooth
2	WLAN 2.4GHz + WLAN 5GHz + Thread
Refer to Sporton Test Report No.: FA8O1737-01 for Co-location RF Exposure Evaluation.	

Note:

1. Test Mode:

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

2. 802.11ax modulation and bandwidth are similar for 802.11n mode for 20MHz / 40MHz and 802.11ac mode for 20/40/80/160MHz, therefore investigated worst case to representative mode in test report.

2.3 EUT Operation during Test

non-beamforming mode:

The EUT was programmed to be in continuously transmitting mode.

beamforming mode:

For Conducted Mode:

The EUT was programmed to be in continuously transmitting mode.

For Radiated Mode:

During the test, the following programs under WIN 7 were executed.
The program was executed as follows:

1. During the test, the EUT operation to normal function.
2. Executed command fixed test channel under Telnet and LanTest.
3. Executed " Telnet and LanTest " to link with the remote workstation to transmit and receive packet by WLAN AP and transmit duty cycle no less than 98%.



2.4 Accessories

Accessories				
No.	Equipment Name	Brand Name	Model Name	Rating
1	Adapter	POWERTRON	PA1045-120HIB300	Input: 100-240Vac ~ 50-60Hz, 1.0A Output: 12Vdc, 3.0A, 36W Max
Others				
Plug*6 (US*1, EU*1, UK*1, AU*1, China*1, BZ*1) Bracket*1				

2.5 Support Equipment

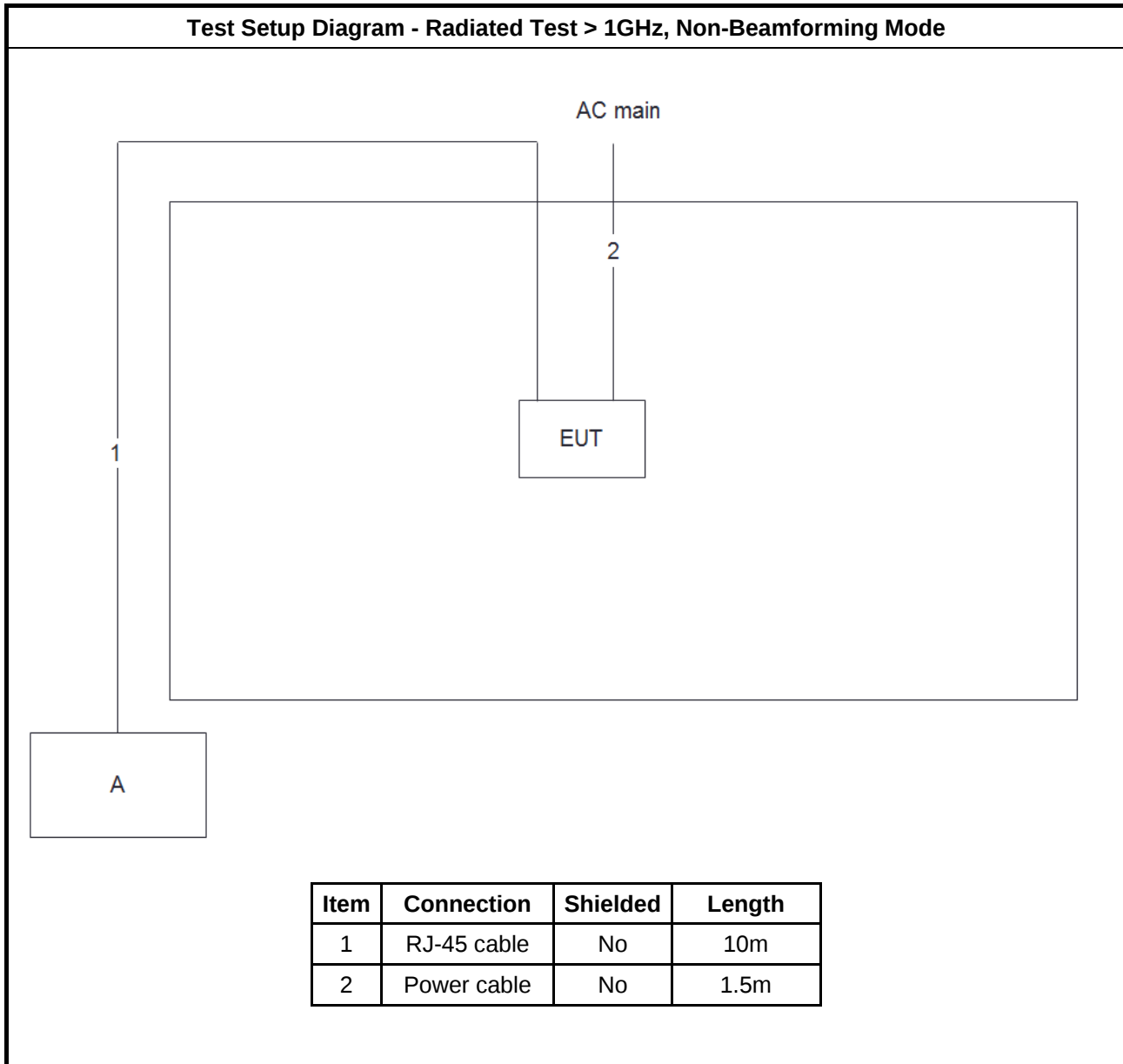
For Test Site No: TH01-CB and 03CH01-CB (above 1GHz, Non-Beamforming Mode)

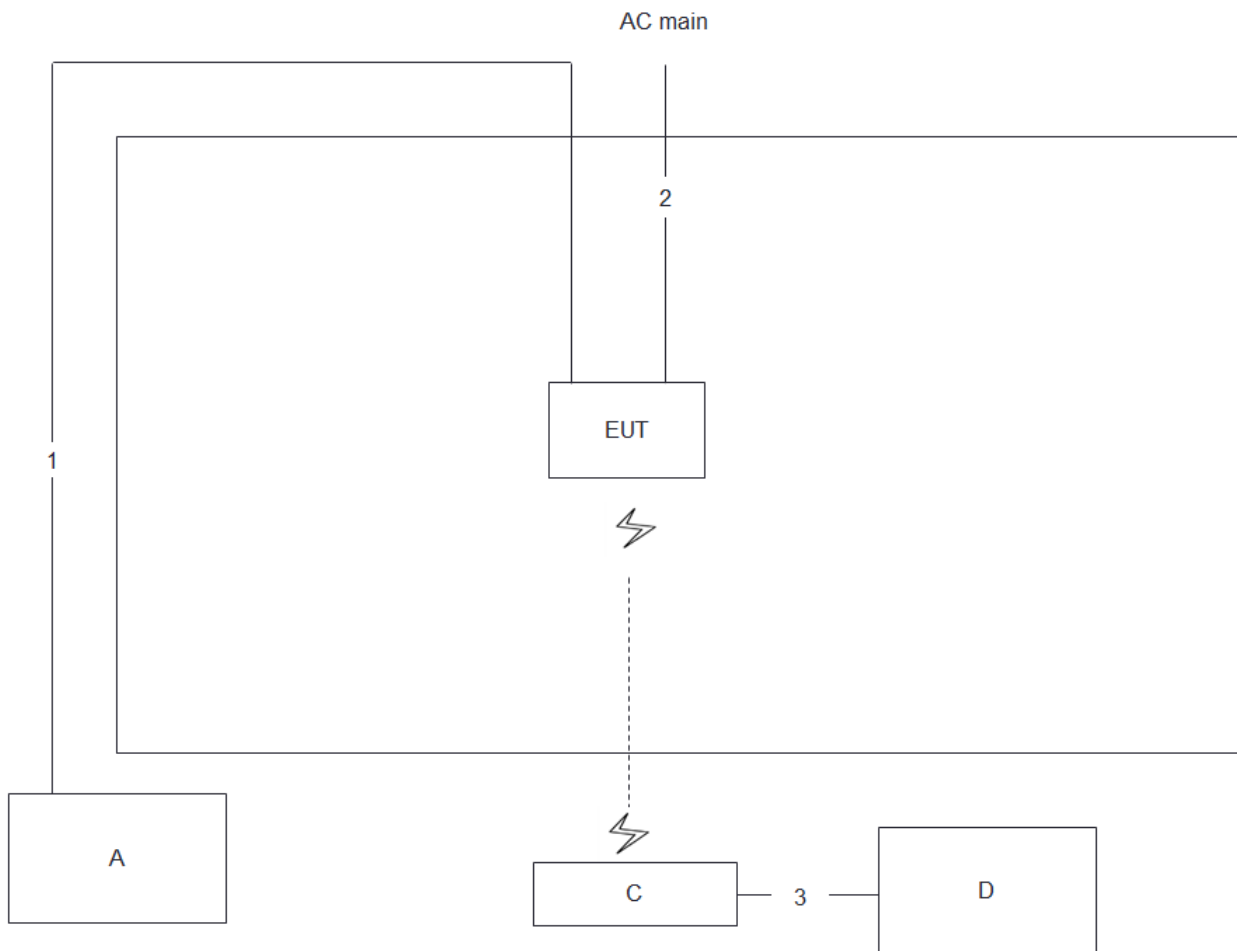
Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	Notebook	DELL	E4300	N/A

For Test Site No: 03CH01-CB (above 1GHz, Beamforming Mode)

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	Notebook	DELL	E4300	N/A
C	WLAN Module	BROADCOM	BCM 943684MCH5	N/A
D	Notebook	DELL	E4300	N/A

2.6 Test Setup Diagram



Test Setup Diagram - Radiated Test > 1GHz, Beamforming Mode


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

3 Transmitter Test Result

3.1 Emission Bandwidth

3.1.1 Emission Bandwidth Limit

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

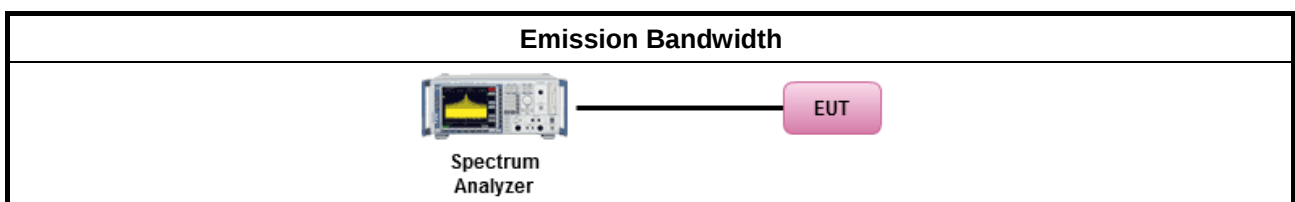
3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

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

3.1.4 Test Setup



3.1.5 Test Result of Emission Bandwidth

Refer as Appendix A



3.2 Maximum Conducted Output Power

3.2.1 Maximum Conducted Output Power Limit

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

3.2.2 Measuring Instruments

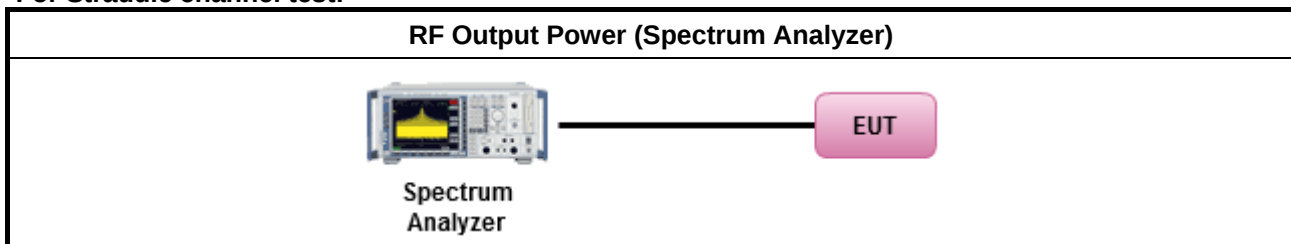
Refer a test equipment and calibration data table in this test report.

3.2.3 Test Procedures

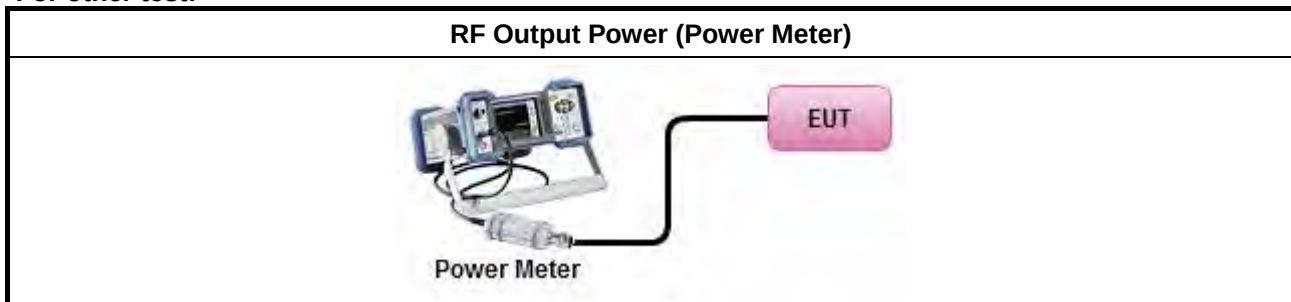
Test Method	
Maximum Conducted Output Power	
Average over on/off periods with duty factor	
☒	Refer as FCC KDB 789033, clause E Method SA-2 (spectral trace averaging). for straddle channel.
☐	Refer as FCC KDB 789033, clause E Method SA-2 Alt. (RMS detection with slow sweep speed)
Wideband RF power meter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

3.2.4 Test Setup

For Straddle channel test:



For other test:



3.2.5 Test Result of Maximum Conducted Output Power

Refer as Appendix B



3.3 Peak Power Spectral Density

3.3.1 Peak Power Spectral Density Limit

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

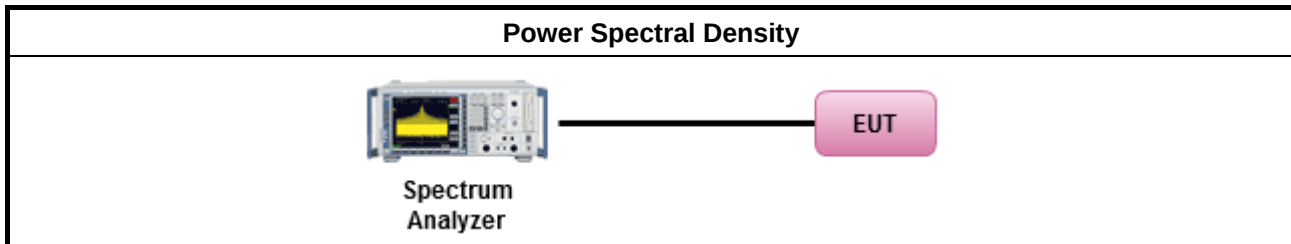
3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

Test Method	
Peak power spectral density procedures that the same method as used to determine the conducted output power shall be used to determine the peak power spectral density and use the peak search function on the spectrum analyzer to find the peak of the spectrum. For the peak power spectral density shall be measured using below options:	
☐	Refer as FCC KDB 789033, F)5) power spectral density can be measured using resolution bandwidths < 1 MHz provided that the results are integrated over 1 MHz bandwidth
[duty cycle ≥ 98% or external video / power trigger]	
☒	Refer as FCC KDB 789033, clause E Method SA-1 (spectral trace averaging).
☐	Refer as FCC KDB 789033, clause E Method SA-1 Alt. (RMS detection with slow sweep speed)
duty cycle < 98% and average over on/off periods with duty factor	
☒	Refer as FCC KDB 789033, clause E Method SA-2 (spectral trace averaging).
☐	Refer as FCC KDB 789033, clause E Method SA-2 Alt. (RMS detection with slow sweep speed)
For conducted measurement.	
If the EUT supports multiple transmit chains using options given below:	
☒	Option 1: Measure and sum the spectra across the outputs. Refer as FCC KDB 662911, In-band power spectral density (PSD). Sample all transmit ports simultaneously using a spectrum analyzer for each transmit port. Where the trace bin-by-bin of each transmit port summing can be performed. (i.e., in the first spectral bin of output 1 is summed with that in the first spectral bin of output 2 and that from the first spectral bin of output 3, and so on up to the NTX output to obtain the value for the first frequency bin of the summed spectrum.). Add up the amplitude (power) values for the different transmit chains and use this as the new data trace.
☐	Option 2: Measure and sum spectral maxima across the outputs. With this technique, spectra are measured at each output of the device at the required resolution bandwidth. The maximum value (peak) of each spectrum is determined. These maximum values are then summed mathematically in linear power units across the outputs. These operations shall be performed separately over frequency spans that have different out-of-band or spurious emission limits,
☐	Option 3: Measure and add 10 log(N) dB, where N is the number of transmit chains. Refer as FCC KDB 662911, In-band power spectral density (PSD). Performed at each transmit chains and each transmit chains shall be compared with the limit have been reduced with 10 log(N). Or each transmit chains shall be add 10 log(N) to compared with the limit.
If multiple transmit chains, EIRP PPSD calculation could be following as methods: $PPSD_{total} = PPSD_1 + PPSD_2 + \dots + PPSD_n$ (calculated in linear unit [mW] and transfer to log unit [dBm]) $EIRP_{total} = PPSD_{total} + DG$	

3.3.4 Test Setup



3.3.5 Test Result of Peak Power Spectral Density

Refer as Appendix C

3.4 Unwanted Emissions

3.4.1 Transmitter Unwanted Emissions Limit

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

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

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

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

Un-restricted band emissions above 1GHz Limit	
Operating Band	Limit
☒ 5.15 - 5.25 GHz	e.i.r.p. -27 dBm [68.2 dBuV/m@3m]
☒ 5.25 - 5.35 GHz	e.i.r.p. -27 dBm [68.2 dBuV/m@3m]
☒ 5.47 - 5.725 GHz	e.i.r.p. -27 dBm [68.2 dBuV/m@3m]
☒ 5.725 - 5.85 GHz	all emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

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



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

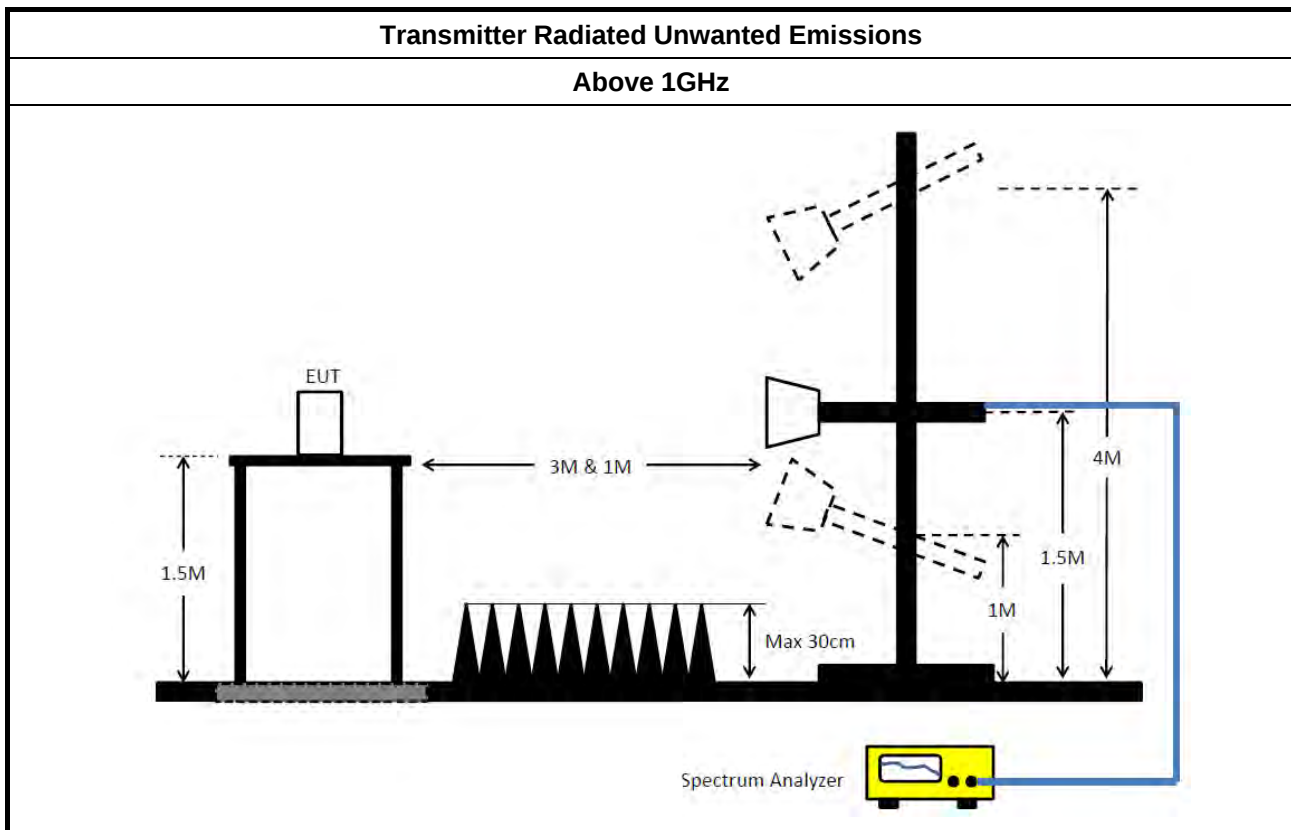
3.4.2 Measuring Instruments

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

3.4.3 Test Procedures

Test Method	
Measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. Measurements shall not be performed at a distance greater than 30 m for frequencies above 30 MHz, unless it can be further demonstrated that measurements at a distance of 30 m or less are impractical. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements).	
The average emission levels shall be measured in [duty cycle $\geq$ 98 or duty factor].	
For the transmitter unwanted emissions shall be measured using following options below:	
	Refer as FCC KDB 789033, clause G)2) for unwanted emissions into non-restricted bands.
	Refer as FCC KDB 789033, clause G)1) for unwanted emissions into restricted bands.
	☐ Refer as FCC KDB 789033, G)6) Method AD (Trace Averaging).
	☒ Refer as FCC KDB 789033, G)6) Method VB (Reduced VBW).
	☐ Refer as ANSI C63.10, clause 11.12.2.5.3 (Reduced VBW). VBW $\geq$ 1/T, where T is pulse time.
	☐ Refer as ANSI C63.10, clause 7.5 average value of pulsed emissions.
	☒ Refer as FCC KDB 789033, clause G)5) measurement procedure peak limit.
☐ Refer as ANSI C63.10, clause 4.1.4.2.2 measurement procedure peak limit.	
For radiated measurement.	
	Refer as ANSI C63.10, clause 6.4 for radiated emissions below 30 MHz and test distance is 3m.
	Refer as ANSI C63.10, clause 6.5 for radiated emissions 30 MHz to 1 GHz and test distance is 3m.
	Refer as ANSI C63.10, clause 6.6 for radiated emissions above 1GHz.
The any unwanted emissions level shall not exceed the fundamental emission level.	
All amplitude of spurious emissions that are attenuated by more than 20 dB below the permissible value has no need to be reported.	

3.4.4 Test Setup



3.4.5 Test Result of Transmitter Unwanted Emissions

Refer as Appendix D



4 Test Equipment and Calibration Data

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
Horn Antenna	EMCO	3115	00075790	750MHz ~ 18GHz	Nov. 20, 2017	Nov. 19, 2018	Radiation (03CH01-CB)
Horn Antenna	EMCO	3115	00075790	750MHz ~ 18GHz	Nov. 13, 2018	Nov. 12, 2019	Radiation (03CH01-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Jun. 28, 2018	Jun. 27, 2019	Radiation (03CH01-CB)
Pre-Amplifier	Agilent	8449B	3008A02310	1GHz ~ 26.5GHz	Jan. 09, 2018	Jan. 08, 2019	Radiation (03CH01-CB)
Pre-Amplifier	MITEQ	TTA1840-35-H G	1864479	18GHz ~ 40GHz	Jul. 04, 2018	Jul. 03, 2019	Radiation (03CH01-CB)
Spectrum Analyzer	R&S	FSP40	100080	9kHz~40GHz	Oct. 03, 2018	Oct. 02, 2019	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-16	N/A	1 GHz ~ 18 GHz	Oct. 08, 2018	Oct. 07, 2019	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-16+17	N/A	1 GHz ~ 18 GHz	Oct. 08, 2018	Oct. 07, 2019	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-40G#1	N/A	18GHz ~ 40 GHz	Jul. 27, 2018	Jul. 26, 2019	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-40G#2	N/A	18GHz ~ 40 GHz	Jul. 27, 2018	Jul. 26, 2019	Radiation (03CH01-CB)
Spectrum analyzer	R&S	FSV40	100979	9kHz~40GHz	Dec. 21, 2017	Dec. 20, 2018	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-06	1 GHz ~ 26.5 GHz	Oct. 08, 2018	Oct. 07, 2019	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-07	1 GHz ~ 26.5 GHz	Oct. 08, 2018	Oct. 07, 2019	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-08	1 GHz ~ 26.5 GHz	Oct. 08, 2018	Oct. 07, 2019	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-09	1 GHz ~ 26.5 GHz	Oct. 08, 2018	Oct. 07, 2019	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-10	1 GHz ~ 26.5 GHz	Oct. 08, 2018	Oct. 07, 2019	Conducted (TH01-CB)
Power Sensor	Agilent	U2021XA	MY54320014	50MHz~18GHz	Apr. 17, 2018	Apr. 16, 2019	Conducted (TH01-CB)

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

Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.25-5.35GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	43.375M	18.341M	18M3D1D	21.6M	16.567M
5.47-5.725GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	43.525M	19.04M	19M0D1D	21.725M	14.873M
5.725-5.85GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	3.1M	10.775M	10M8D1D	3.1M	10.775M

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

Max-OBW = Maximum 99% occupied bandwidth;

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

Min-OBW = Minimum 99% occupied bandwidth;

Result

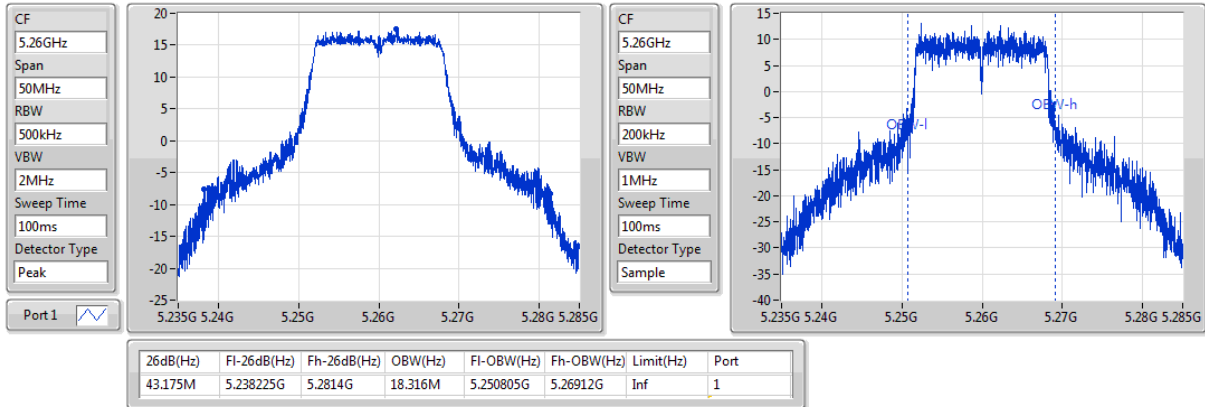
Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
802.11a_Nss1,(6Mbps)_1TX	-	-	-	-
5260MHz	Pass	Inf	43.175M	18.316M
5300MHz	Pass	Inf	43.375M	18.341M
5320MHz	Pass	Inf	21.6M	16.567M
5500MHz	Pass	Inf	21.775M	16.592M
5580MHz	Pass	Inf	43.525M	19.04M
5700MHz	Pass	Inf	21.725M	16.592M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	25.11M	14.873M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	3.1M	10.775M

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

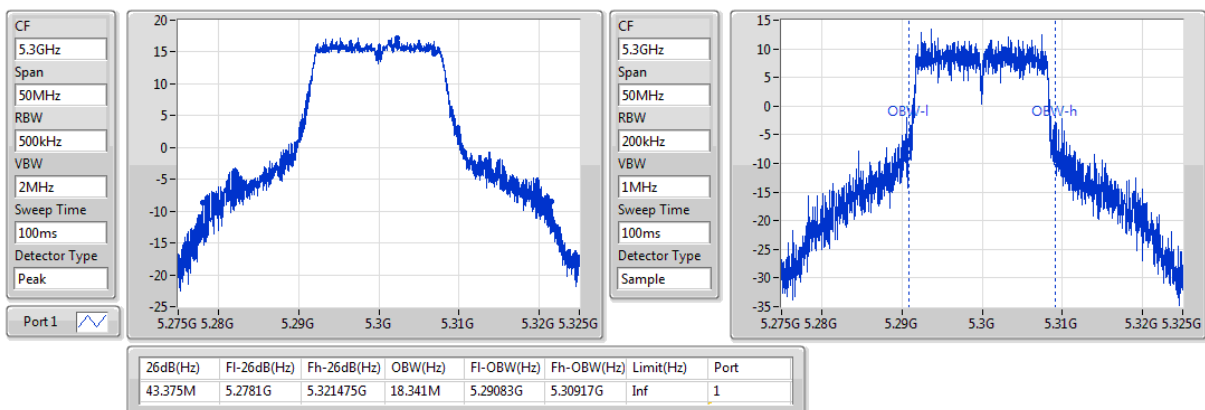
Port X-OBW = Port X 99% occupied bandwidth;

802.11a_Nss1,(6Mbps)_1TX
EBW
5260MHz

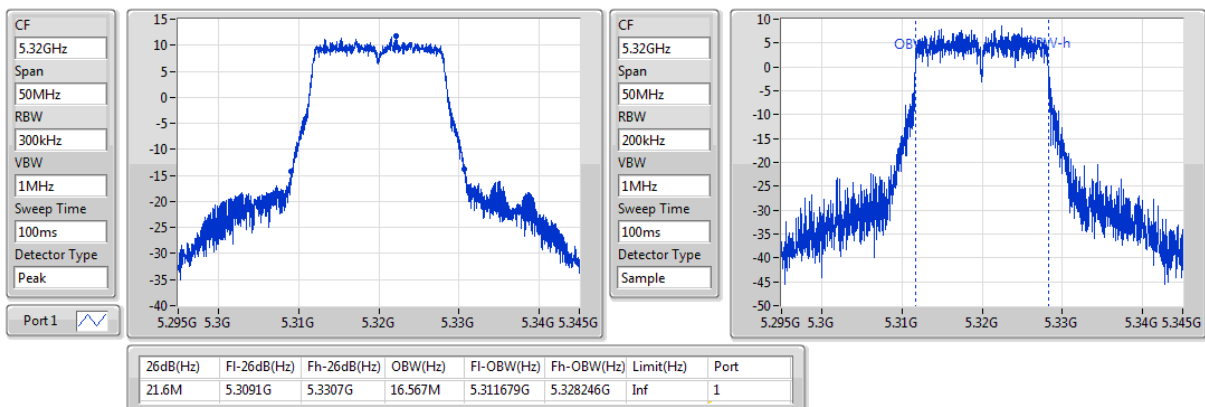
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802.11a_Nss1,(6Mbps)_1TX
EBW
5300MHz

15/11/2018

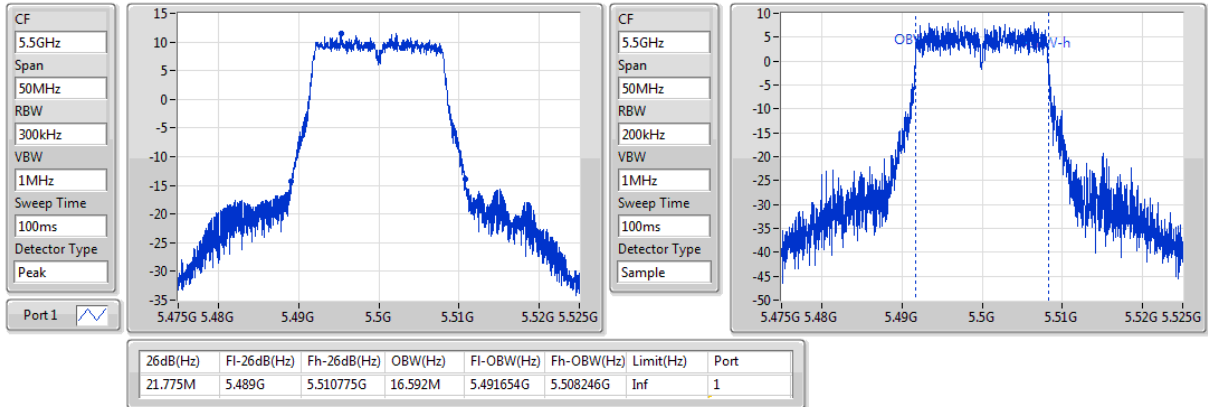

802.11a_Nss1,(6Mbps)_1TX
EBW
5320MHz

15/11/2018

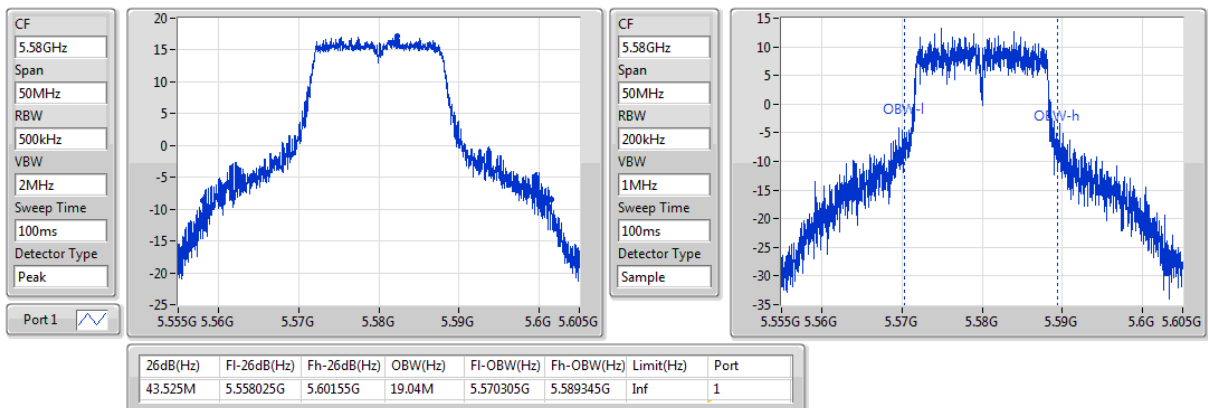


802.11a_Nss1,(6Mbps)_1TX
EBW
5500MHz

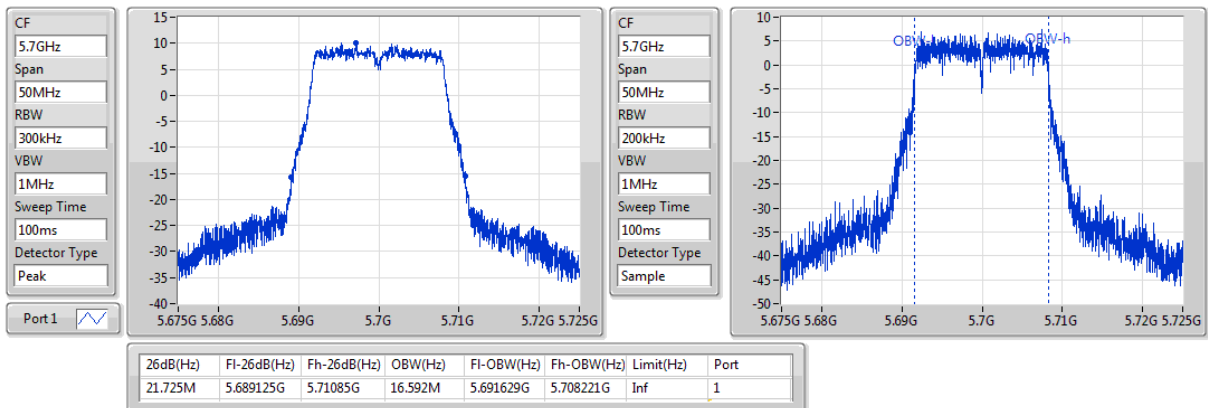
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802.11a_Nss1,(6Mbps)_1TX
EBW
5580MHz

15/11/2018

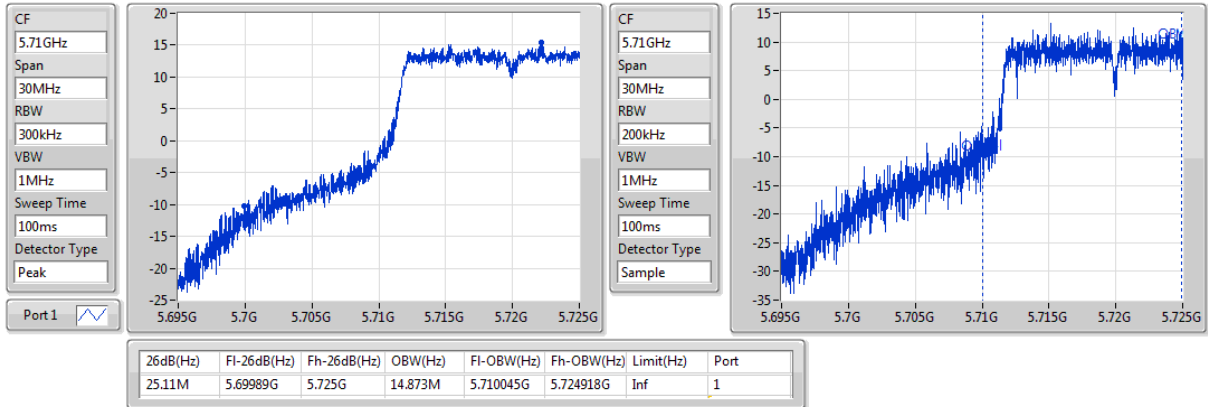

802.11a_Nss1,(6Mbps)_1TX
EBW
5700MHz

15/11/2018

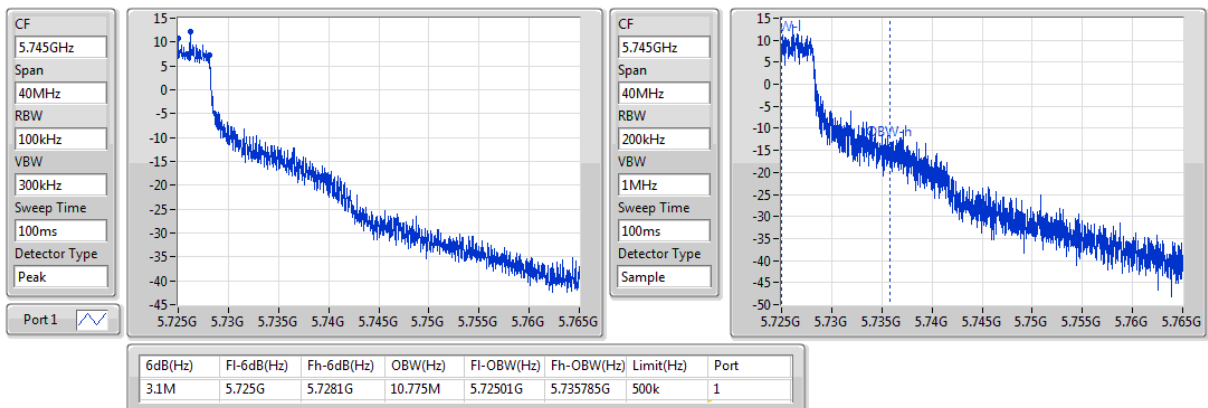


802.11a_Nss1,(6Mbps)_1TX
EBW
5720MHz Straddle 5.47-5.725GHz

15/11/2018


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

15/11/2018



Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.15-5.25GHz	-	-	-	-	-
802.11ax HEW160_Nss1,(MCS0)_1TX	81.04M	77.161M	77M2D1D	81.04M	77.161M
5.25-5.35GHz	-	-	-	-	-
802.11ax HEW20_Nss1,(MCS0)_1TX	41.1M	19.365M	19M4D1D	24.45M	18.966M
802.11ax HEW40_Nss1,(MCS0)_1TX	63.9M	37.731M	37M7D1D	40M	37.581M
802.11ax HEW80_Nss1,(MCS0)_1TX	81.7M	76.962M	77M0D1D	81.7M	76.962M
802.11ax HEW160_Nss1,(MCS0)_1TX	81.12M	77.241M	77M2D1D	81.12M	77.241M
5.47-5.725GHz	-	-	-	-	-
802.11ax HEW20_Nss1,(MCS0)_1TX	41.5M	19.49M	19M5D1D	22.575M	14.603M
802.11ax HEW40_Nss1,(MCS0)_1TX	67.2M	37.831M	37M8D1D	39.9M	34.388M
802.11ax HEW80_Nss1,(MCS0)_1TX	128.55M	77.261M	77M3D1D	81.7M	73.913M
802.11ax HEW160_Nss1,(MCS0)_1TX	164.4M	155.122M	155MD1D	164.4M	155.122M
5.725-5.85GHz	-	-	-	-	-
802.11ax HEW20_Nss1,(MCS0)_1TX	4.42M	10.195M	10M2D1D	4.42M	10.195M
802.11ax HEW40_Nss1,(MCS0)_1TX	3.74M	24.548M	24M5D1D	3.74M	24.548M
802.11ax HEW80_Nss1,(MCS0)_1TX	3.48M	35.202M	35M2D1D	3.48M	35.202M

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

Max-OBW = Maximum 99% occupied bandwidth;

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

Min-OBW = Minimum 99% occupied bandwidth;

Result

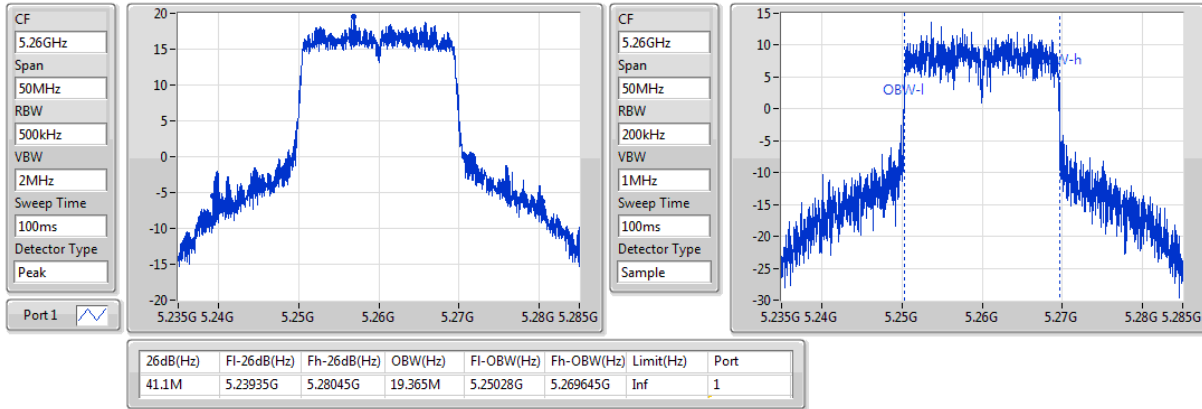
Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
802.11ax HEW20_Nss1,(MCS0)_1TX	-	-	-	-
5260MHz	Pass	Inf	41.1M	19.365M
5300MHz	Pass	Inf	40.925M	19.24M
5320MHz	Pass	Inf	24.45M	18.966M
5500MHz	Pass	Inf	24.075M	18.941M
5580MHz	Pass	Inf	41.5M	19.49M
5700MHz	Pass	Inf	22.575M	18.941M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	25.59M	14.603M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	4.42M	10.195M
802.11ax HEW40_Nss1,(MCS0)_1TX	-	-	-	-
5270MHz	Pass	Inf	63.9M	37.731M
5310MHz	Pass	Inf	40M	37.581M
5510MHz	Pass	Inf	39.9M	37.581M
5550MHz	Pass	Inf	67.2M	37.831M
5670MHz	Pass	Inf	39.95M	37.581M
5710MHz Straddle 5.47-5.725GHz	Pass	Inf	53.76M	34.388M
5710MHz Straddle 5.725-5.85GHz	Pass	500k	3.74M	24.548M
802.11ax HEW80_Nss1,(MCS0)_1TX	-	-	-	-
5290MHz	Pass	Inf	81.7M	76.962M
5530MHz	Pass	Inf	81.7M	76.862M
5610MHz	Pass	Inf	91.5M	77.261M
5690MHz Straddle 5.47-5.725GHz	Pass	Inf	128.55M	73.913M
5690MHz Straddle 5.725-5.85GHz	Pass	500k	3.48M	35.202M
802.11ax HEW160_Nss1,(MCS0)_1TX	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	Inf	81.04M	77.161M
5250MHz Straddle 5.25-5.35GHz	Pass	Inf	81.12M	77.241M
5570MHz	Pass	Inf	164.4M	155.122M

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

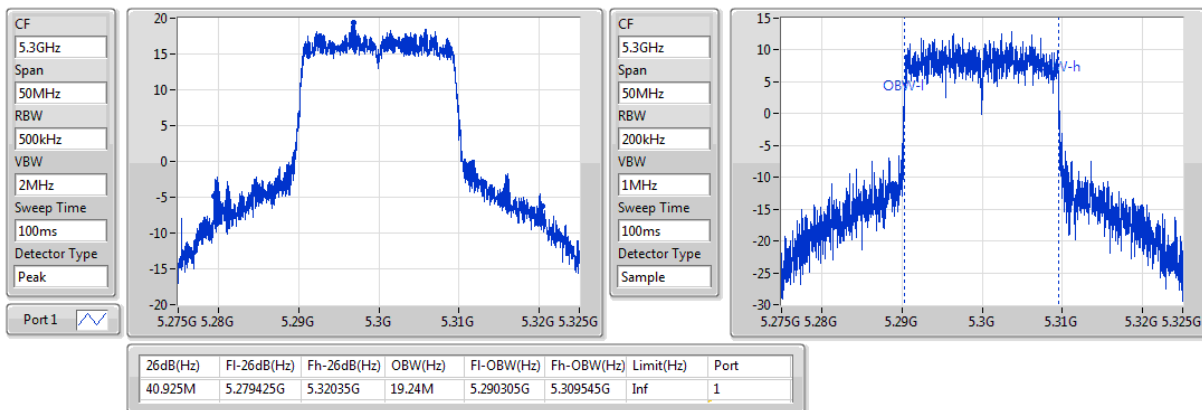
Port X-OBW = Port X 99% occupied bandwidth;

802.11ax HEW20_Nss1,(MCS0)_1TX
EBW
5260MHz

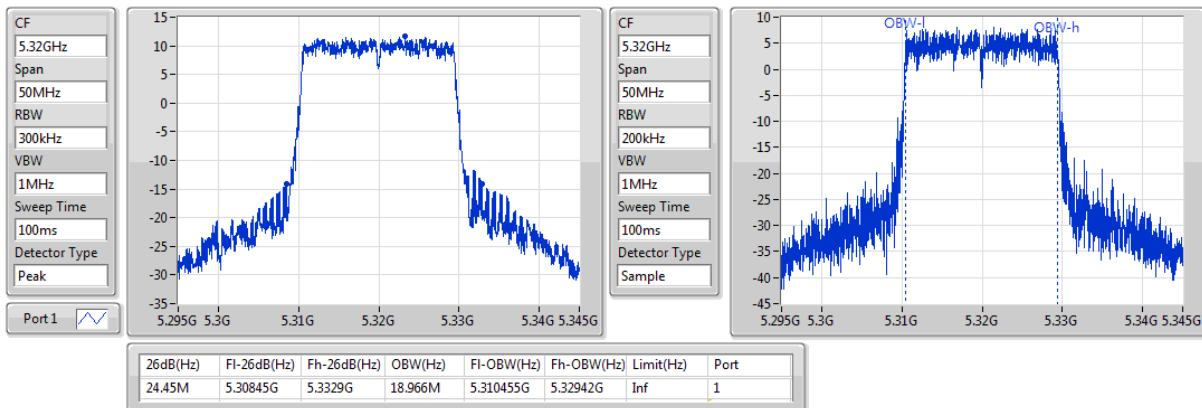
15/11/2018


802.11ax HEW20_Nss1,(MCS0)_1TX
EBW
5300MHz

15/11/2018

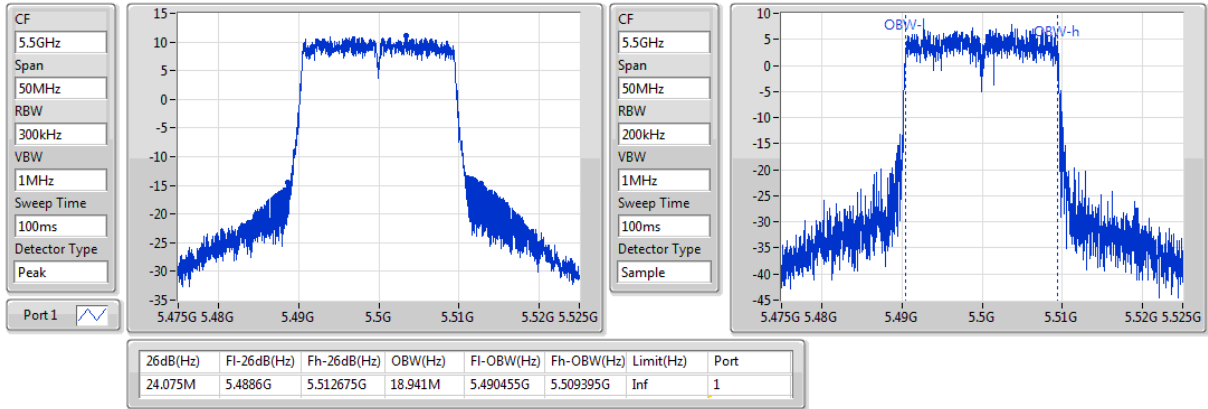

802.11ax HEW20_Nss1,(MCS0)_1TX
EBW
5320MHz

15/11/2018

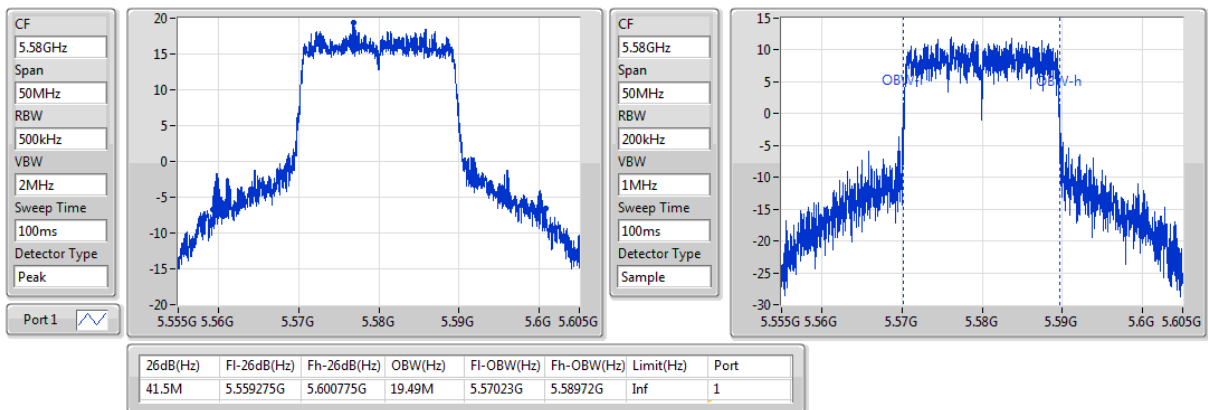


802.11ax HEW20_Nss1,(MCS0)_1TX
EBW
5500MHz

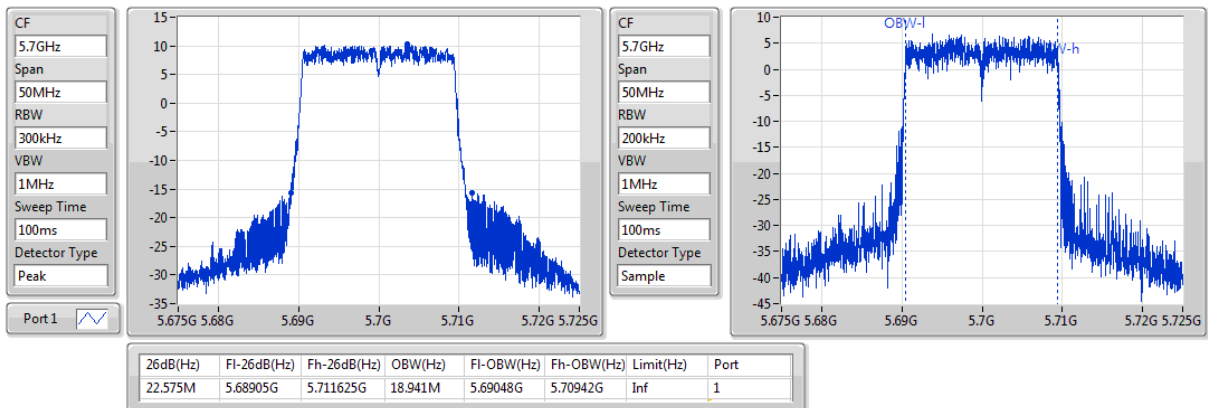
15/11/2018


802.11ax HEW20_Nss1,(MCS0)_1TX
EBW
5580MHz

15/11/2018

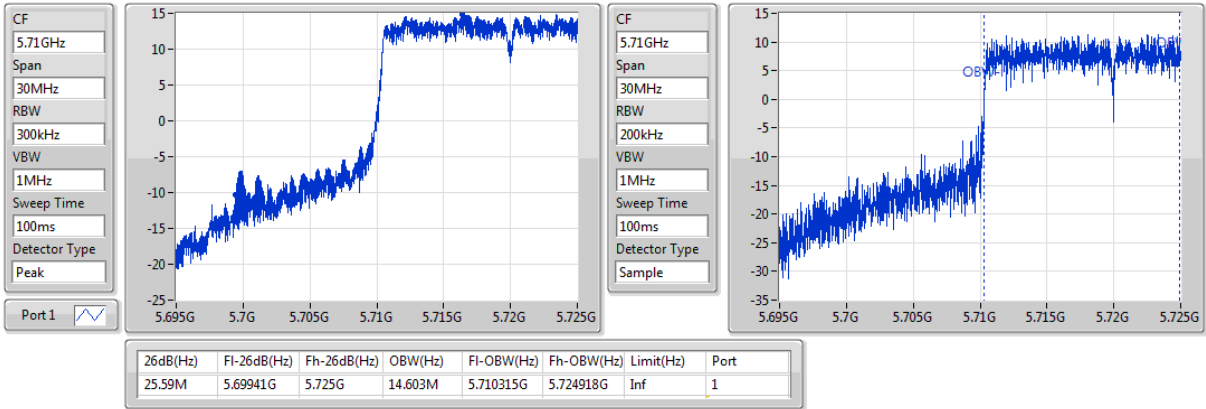

802.11ax HEW20_Nss1,(MCS0)_1TX
EBW
5700MHz

15/11/2018

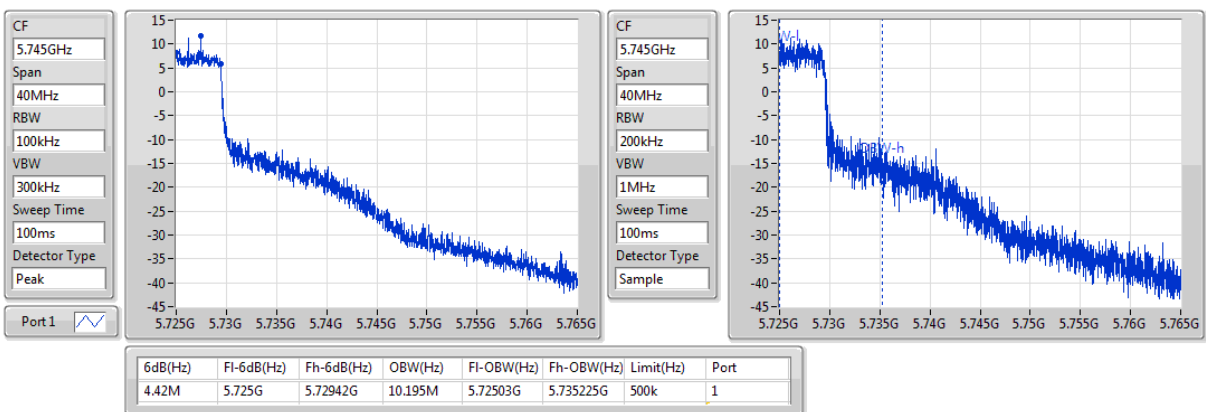


802.11ax HEW20_Nss1,(MCS0)_1TX
EBW
5720MHz Straddle 5.47-5.725GHz

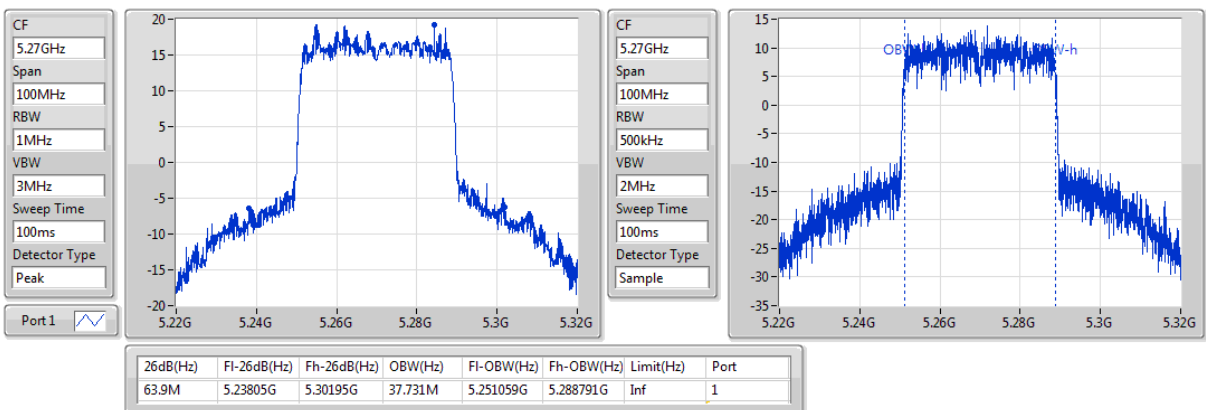
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802.11ax HEW20_Nss1,(MCS0)_1TX
EBW
5720MHz Straddle 5.725-5.85GHz

15/11/2018

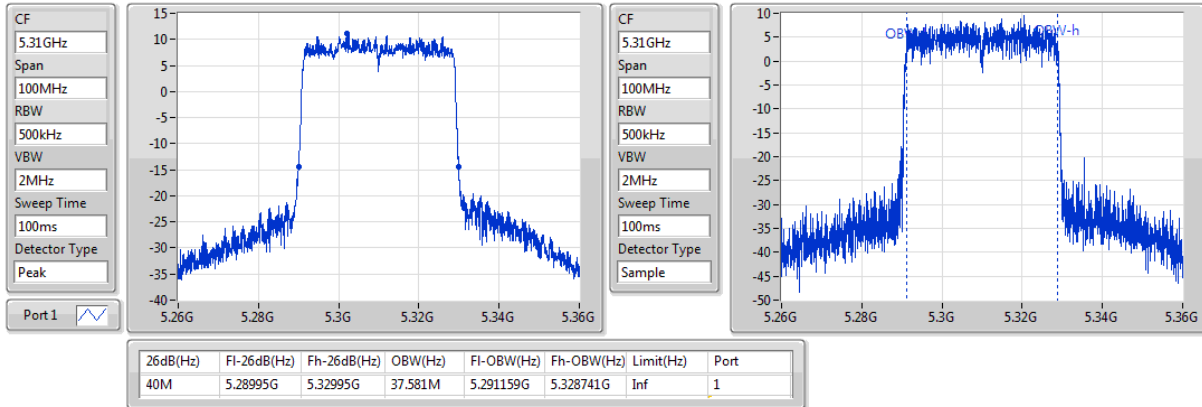

802.11ax HEW40_Nss1,(MCS0)_1TX
EBW
5270MHz

15/11/2018

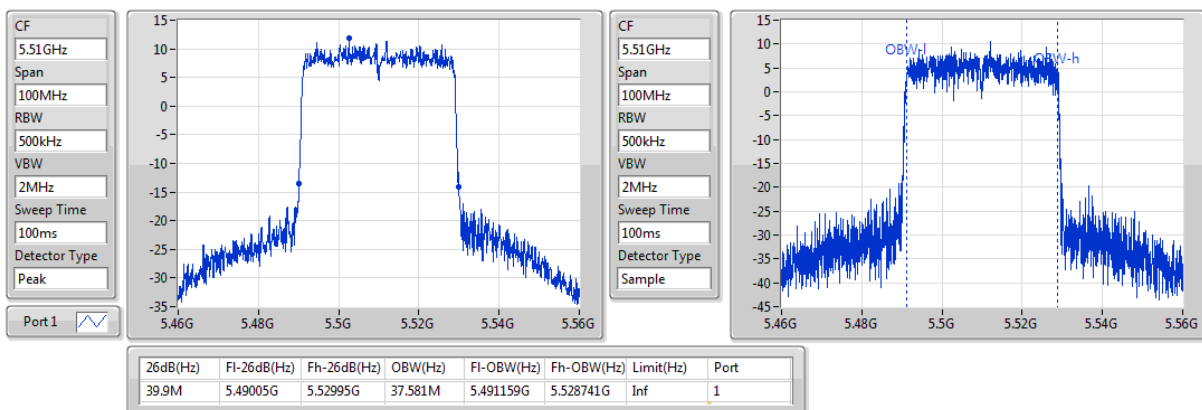


802.11ax HEW40_Nss1,(MCS0)_1TX
EBW
5310MHz

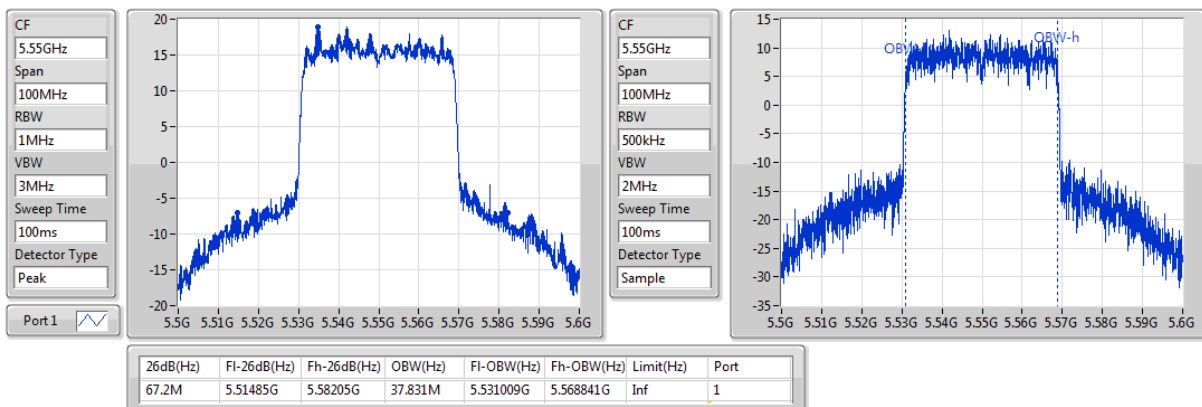
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802.11ax HEW40_Nss1,(MCS0)_1TX
EBW
5510MHz

15/11/2018

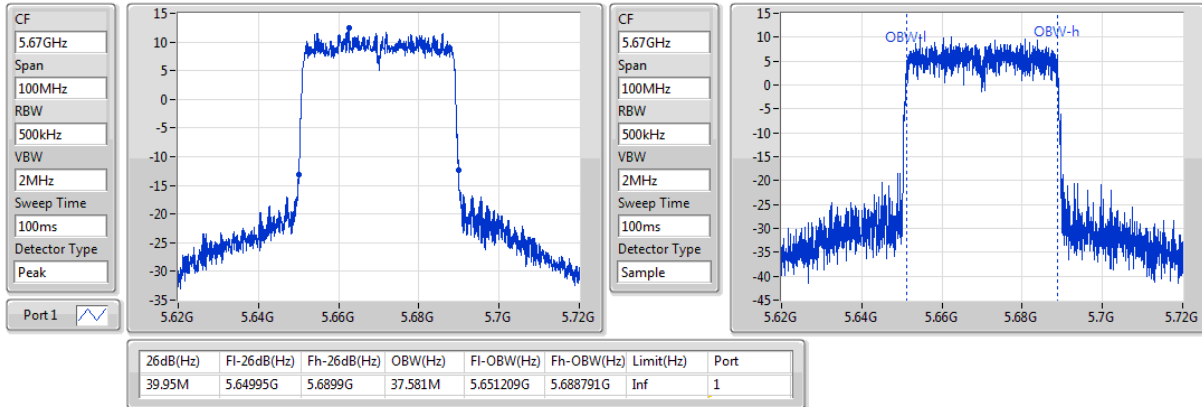

802.11ax HEW40_Nss1,(MCS0)_1TX
EBW
5550MHz

15/11/2018

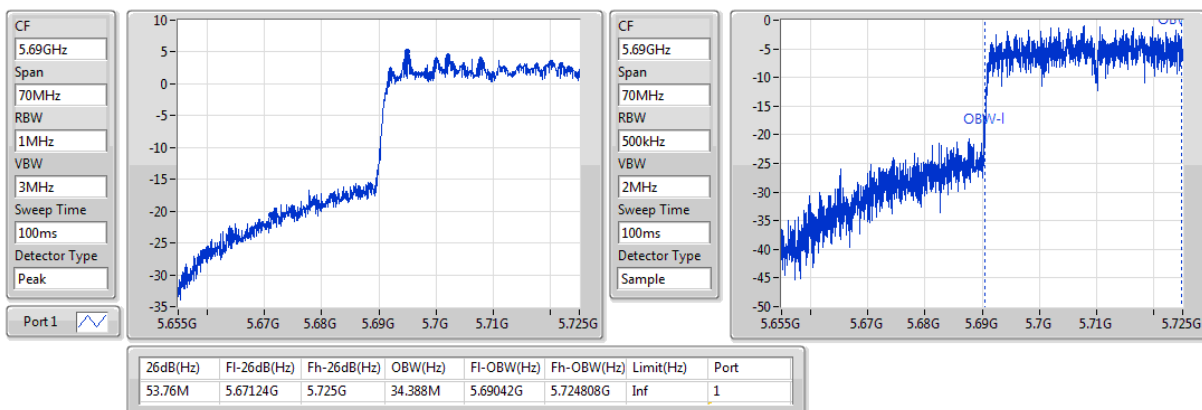


802.11ax HEW40_Nss1,(MCS0)_1TX
EBW
5670MHz

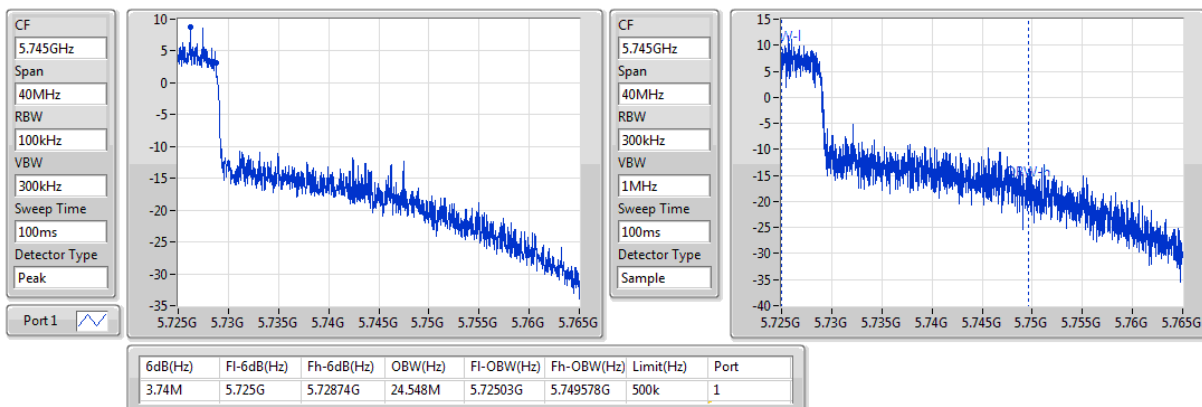
15/11/2018


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

15/11/2018

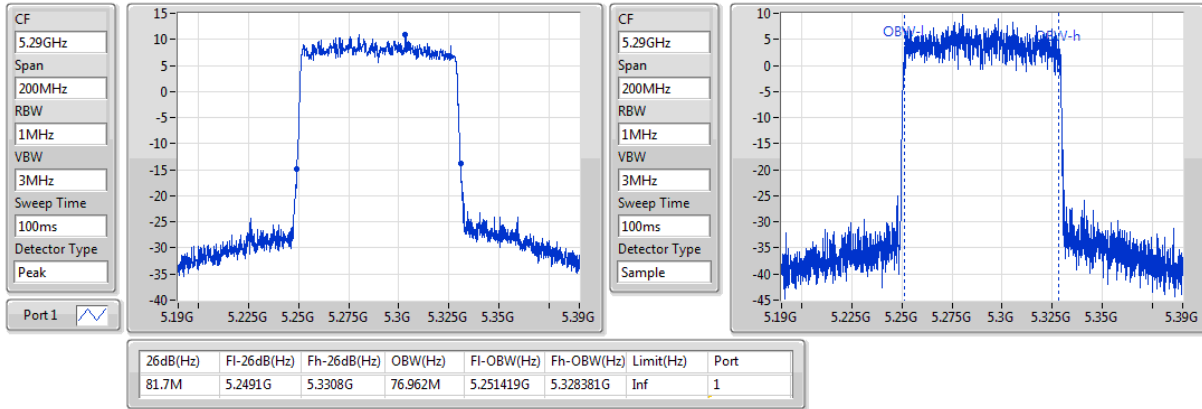

802.11ax HEW40_Nss1,(MCS0)_1TX
EBW
5710MHz Straddle 5.725-5.85GHz

15/11/2018

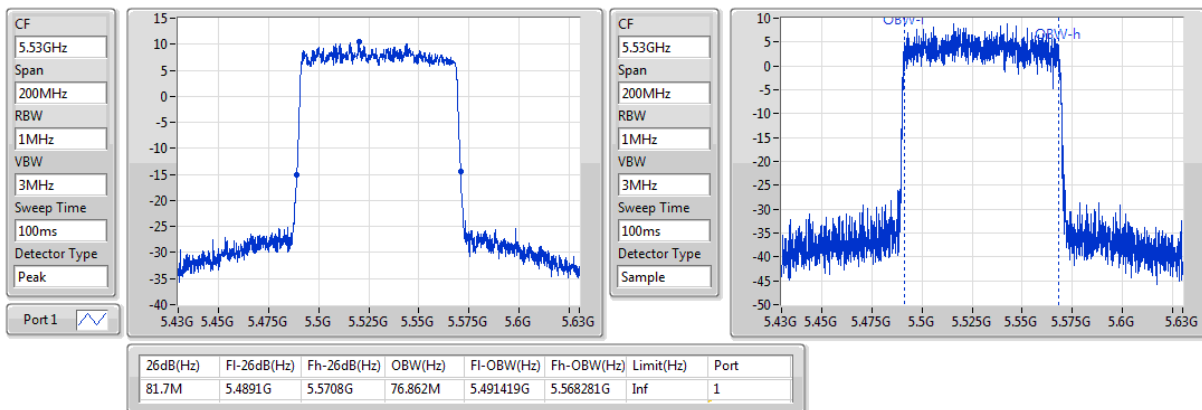


802.11ax HEW80_Nss1,(MCS0)_1TX
EBW
5290MHz

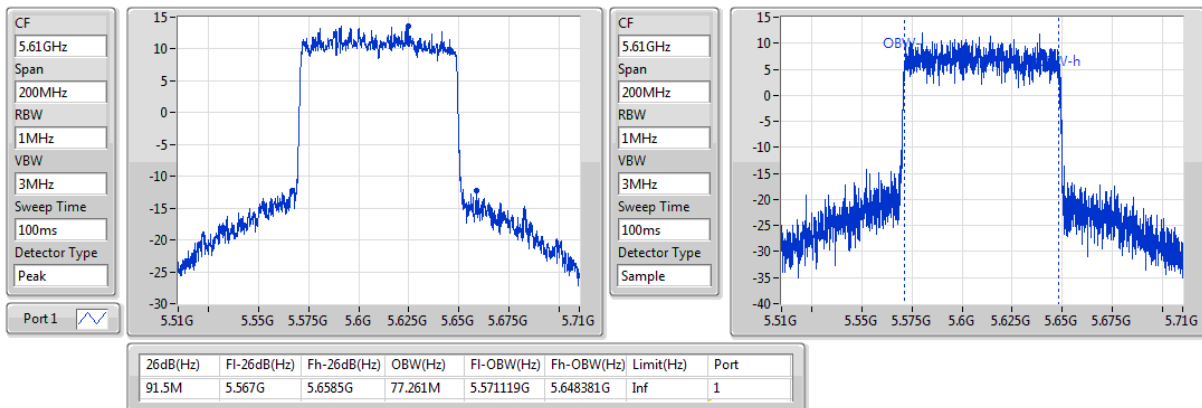
15/11/2018


802.11ax HEW80_Nss1,(MCS0)_1TX
EBW
5530MHz

15/11/2018

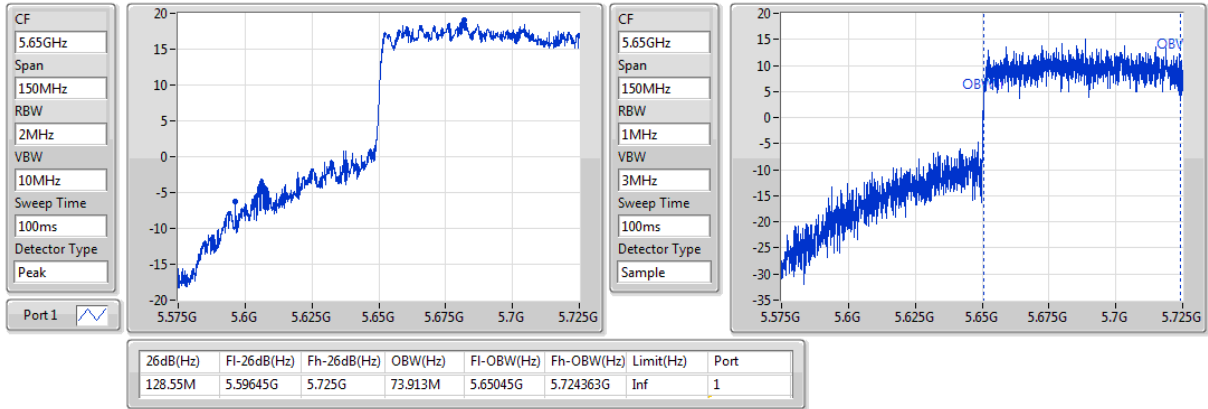

802.11ax HEW80_Nss1,(MCS0)_1TX
EBW
5610MHz

15/11/2018

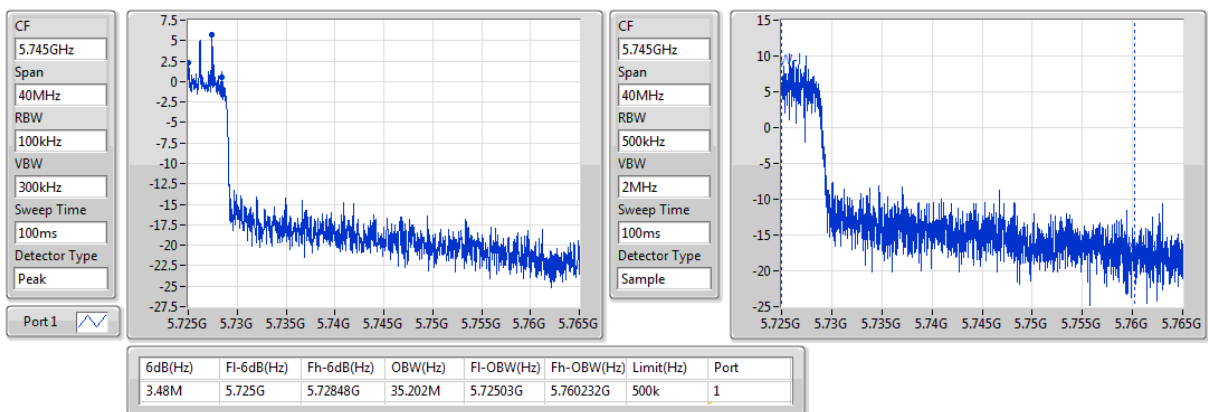


802.11ax HEW80_Nss1,(MCS0)_1TX
EBW
5690MHz Straddle 5.47-5.725GHz

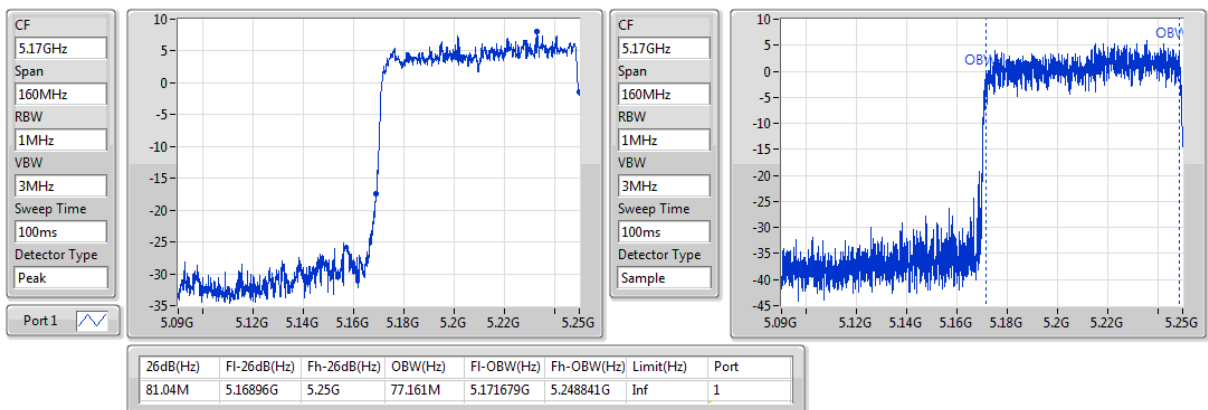
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802.11ax HEW80_Nss1,(MCS0)_1TX
EBW
5690MHz Straddle 5.725-5.85GHz

15/11/2018

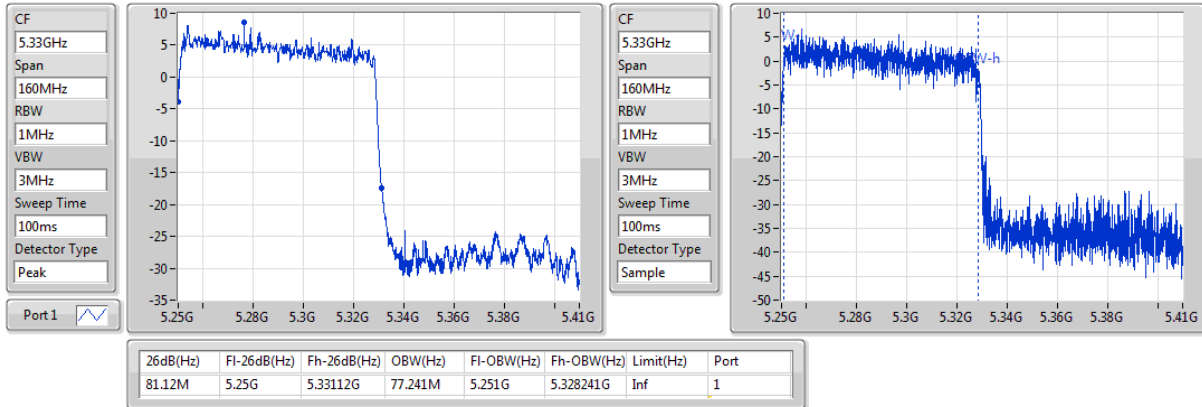

802.11ax HEW160_Nss1,(MCS0)_1TX
EBW
5250MHz Straddle 5.15-5.25GHz

15/11/2018

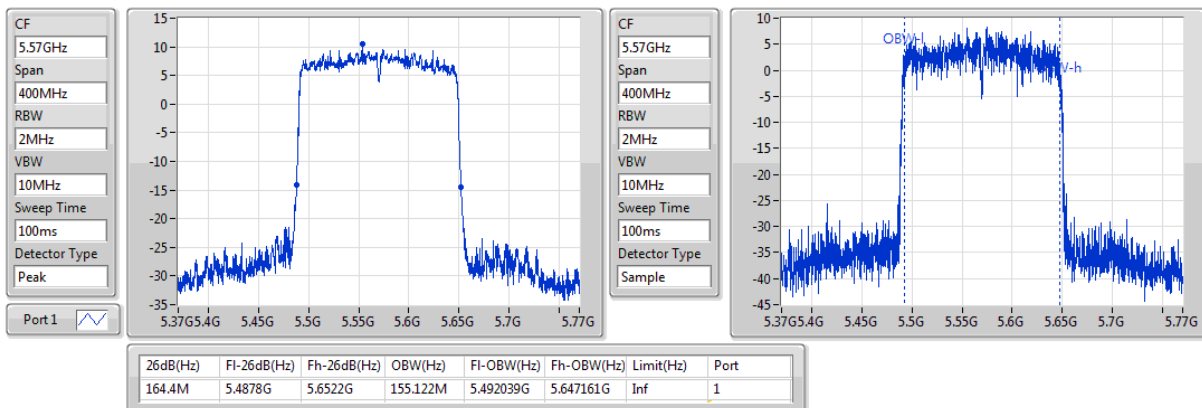


802.11ax HEW160_Nss1,(MCS0)_1TX
EBW
5250MHz Straddle 5.25-5.35GHz

15/11/2018


802.11ax HEW160_Nss1,(MCS0)_1TX
EBW
5570MHz

15/11/2018



Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.15-5.25GHz	-	-	-	-	-
802.11ax HEW160_Nss2,(MCS0)_2TX	81.92M	77.241M	77M2D1D	81.52M	77.081M
5.25-5.35GHz	-	-	-	-	-
802.11ax HEW20_Nss2,(MCS0)_2TX	26.225M	19.015M	19M0D1D	21.35M	18.941M
802.11ax HEW40_Nss2,(MCS0)_2TX	42.2M	37.581M	37M6D1D	39.95M	37.531M
802.11ax HEW80_Nss2,(MCS0)_2TX	81.4M	76.962M	77M0D1D	81.4M	76.862M
802.11ax HEW160_Nss2,(MCS0)_2TX	81.2M	77.081M	77M1D1D	80.88M	77.081M
5.47-5.725GHz	-	-	-	-	-
802.11ax HEW20_Nss2,(MCS0)_2TX	28.8M	19.015M	19M0D1D	17.505M	14.513M
802.11ax HEW40_Nss2,(MCS0)_2TX	48.75M	37.681M	37M7D1D	35.21M	33.688M
802.11ax HEW80_Nss2,(MCS0)_2TX	92.7M	77.261M	77M3D1D	81.6M	73.238M
802.11ax HEW160_Nss2,(MCS0)_2TX	165.2M	155.522M	156MD1D	165M	155.522M
5.725-5.85GHz	-	-	-	-	-
802.11ax HEW20_Nss2,(MCS0)_2TX	4.42M	6.677M	6M68D1D	4.38M	4.618M
802.11ax HEW40_Nss2,(MCS0)_2TX	3.86M	17.851M	17M9D1D	3.74M	4.758M
802.11ax HEW80_Nss2,(MCS0)_2TX	3.66M	23.048M	23M0D1D	3.46M	20.87M

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

Max-OBW = Maximum 99% occupied bandwidth;

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

Min-OBW = Minimum 99% occupied bandwidth;

Result

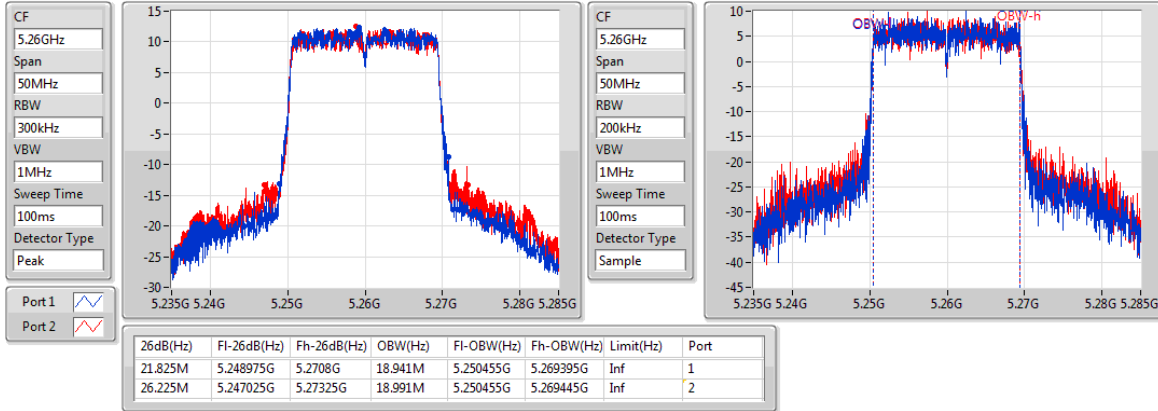
Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
802.11ax HEW20_Nss2,(MCS0)_2TX	-	-	-	-	-	-
5260MHz	Pass	Inf	21.825M	18.941M	26.225M	18.991M
5300MHz	Pass	Inf	23.975M	19.015M	26.225M	18.991M
5320MHz	Pass	Inf	22.075M	18.941M	21.35M	18.941M
5500MHz	Pass	Inf	22M	18.941M	22.55M	18.941M
5580MHz	Pass	Inf	22.4M	18.966M	28.8M	19.015M
5700MHz	Pass	Inf	22.2M	18.941M	21.325M	18.966M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	17.505M	14.513M	22.11M	14.543M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	4.38M	4.618M	4.42M	6.677M
802.11ax HEW40_Nss2,(MCS0)_2TX	-	-	-	-	-	-
5270MHz	Pass	Inf	42.2M	37.581M	40.2M	37.581M
5310MHz	Pass	Inf	39.95M	37.531M	39.95M	37.531M
5510MHz	Pass	Inf	39.9M	37.581M	39.95M	37.531M
5550MHz	Pass	Inf	40.1M	37.681M	48.75M	37.681M
5670MHz	Pass	Inf	40M	37.631M	40.05M	37.481M
5710MHz Straddle 5.47-5.725GHz	Pass	Inf	35.21M	33.688M	43.82M	33.828M
5710MHz Straddle 5.725-5.85GHz	Pass	500k	3.86M	4.758M	3.74M	17.851M
802.11ax HEW80_Nss2,(MCS0)_2TX	-	-	-	-	-	-
5290MHz	Pass	Inf	81.4M	76.962M	81.4M	76.862M
5530MHz	Pass	Inf	81.8M	77.061M	81.6M	77.161M
5610MHz	Pass	Inf	89.4M	77.061M	86.2M	77.261M
5690MHz Straddle 5.47-5.725GHz	Pass	Inf	92.7M	73.313M	92.7M	73.238M
5690MHz Straddle 5.725-5.85GHz	Pass	500k	3.66M	23.048M	3.46M	20.87M
802.11ax HEW160_Nss2,(MCS0)_2TX	-	-	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	Inf	81.52M	77.241M	81.92M	77.081M
5250MHz Straddle 5.25-5.35GHz	Pass	Inf	81.2M	77.081M	80.88M	77.081M
5570MHz	Pass	Inf	165.2M	155.522M	165M	155.522M

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

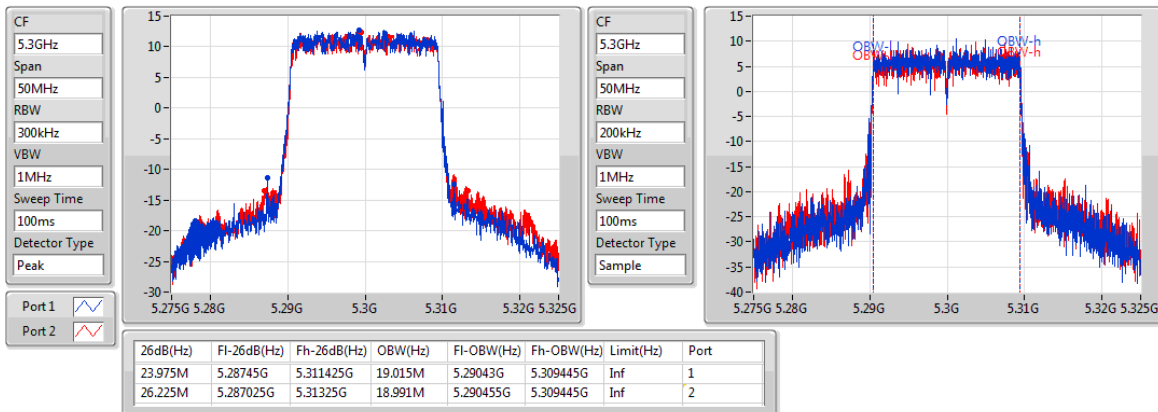
Port X-OBW = Port X 99% occupied bandwidth;

802.11ax HEW20_Nss2,(MCS0)_2TX
EBW
5260MHz

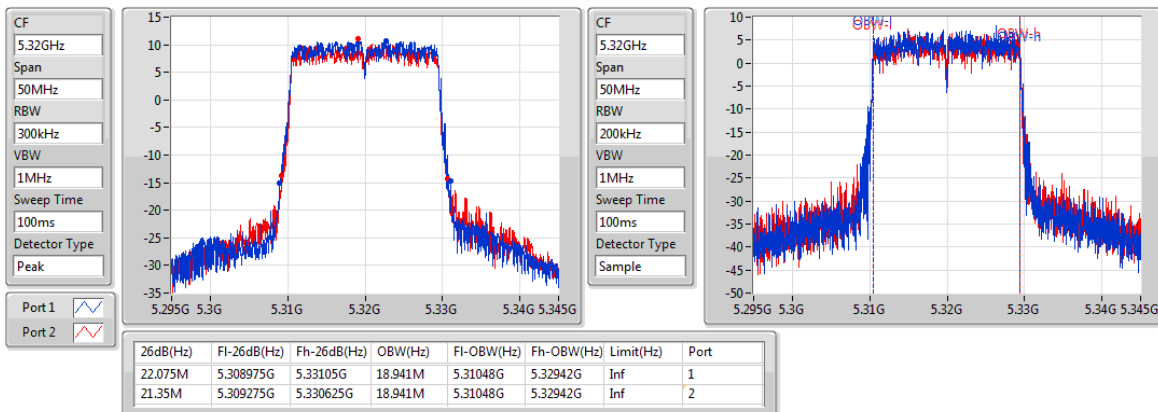
15/11/2018


802.11ax HEW20_Nss2,(MCS0)_2TX
EBW
5300MHz

15/11/2018

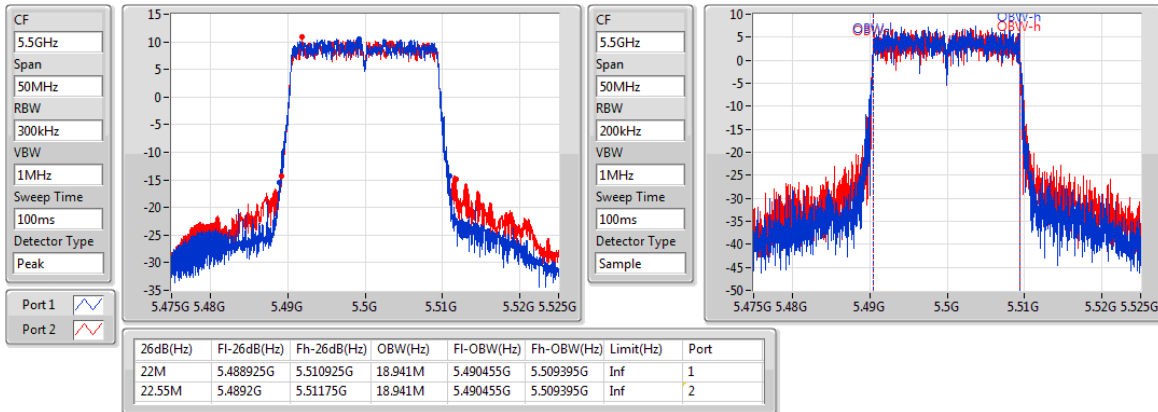

802.11ax HEW20_Nss2,(MCS0)_2TX
EBW
5320MHz

15/11/2018

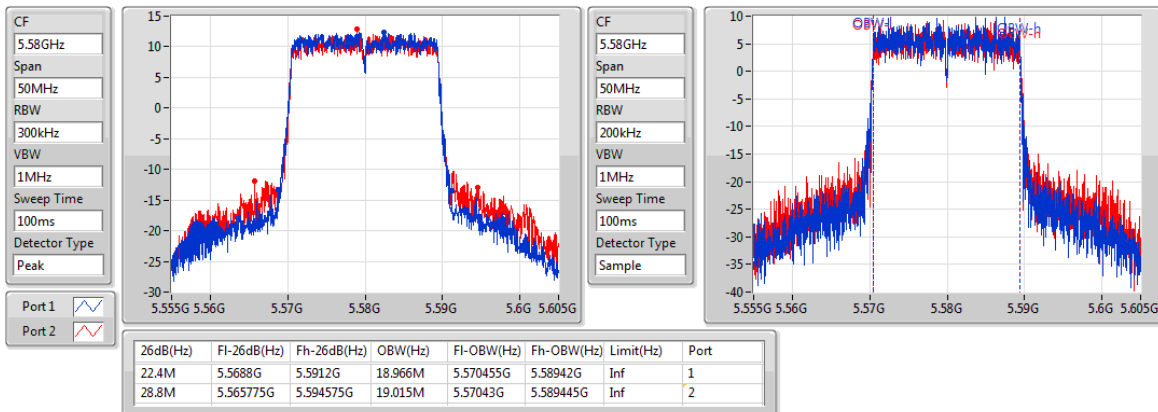


802.11ax HEW20_Nss2,(MCS0)_2TX
EBW
5500MHz

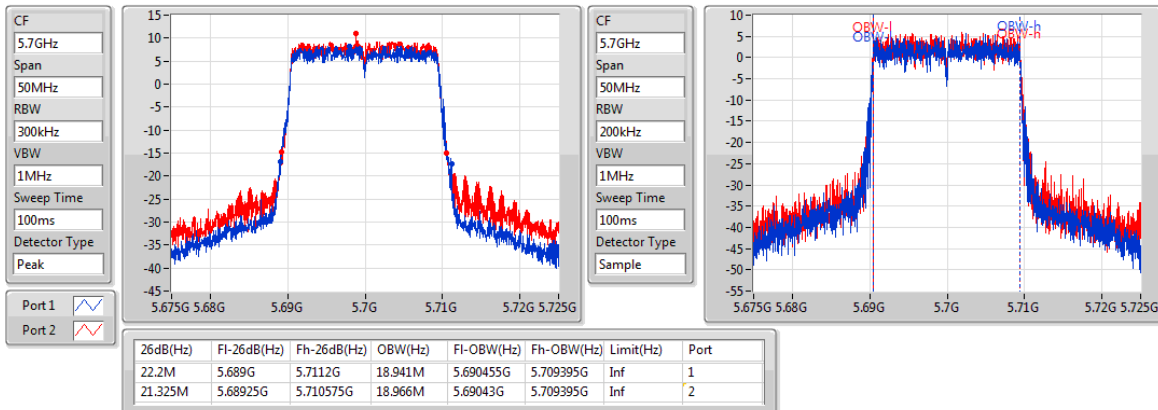
15/11/2018


802.11ax HEW20_Nss2,(MCS0)_2TX
EBW
5580MHz

15/11/2018

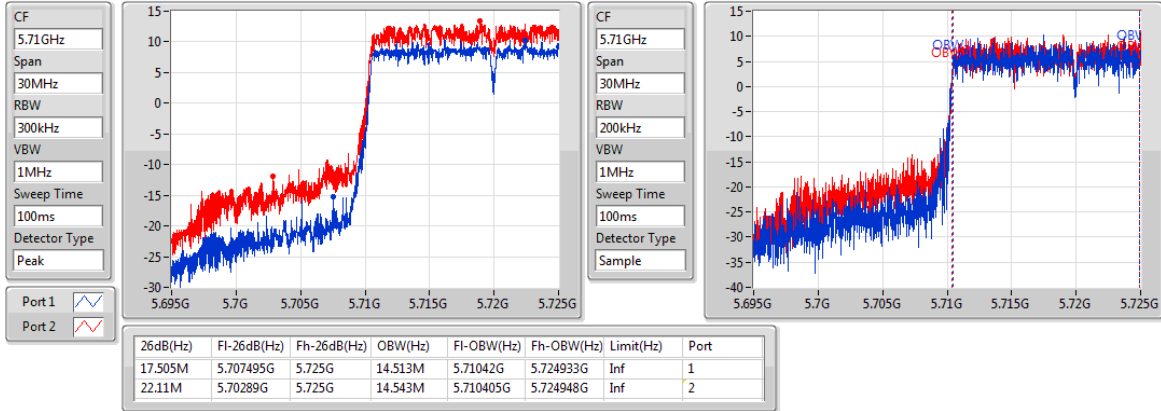

802.11ax HEW20_Nss2,(MCS0)_2TX
EBW
5700MHz

15/11/2018

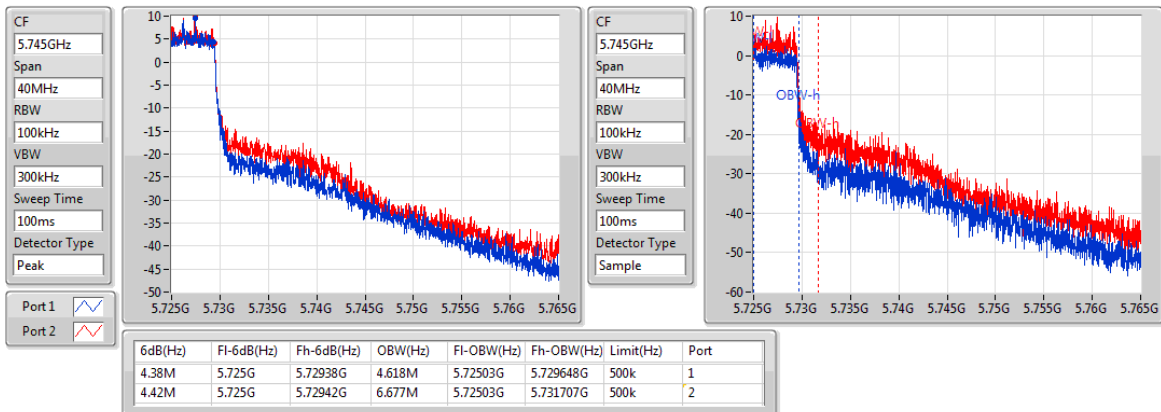


802.11ax HEW20_Nss2,(MCS0)_2TX
EBW
5720MHz Straddle 5.47-5.725GHz

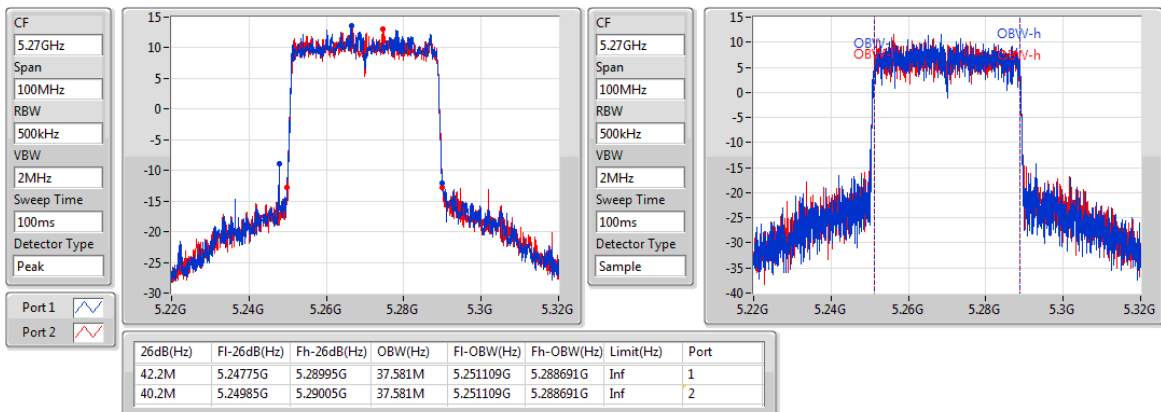
15/11/2018


802.11ax HEW20_Nss2,(MCS0)_2TX
EBW
5720MHz Straddle 5.725-5.85GHz

15/11/2018

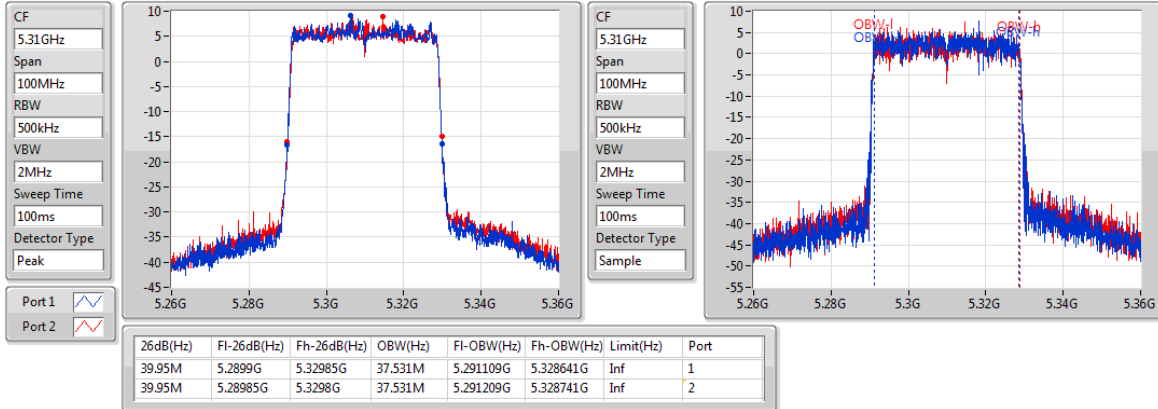

802.11ax HEW40_Nss2,(MCS0)_2TX
EBW
5270MHz

15/11/2018

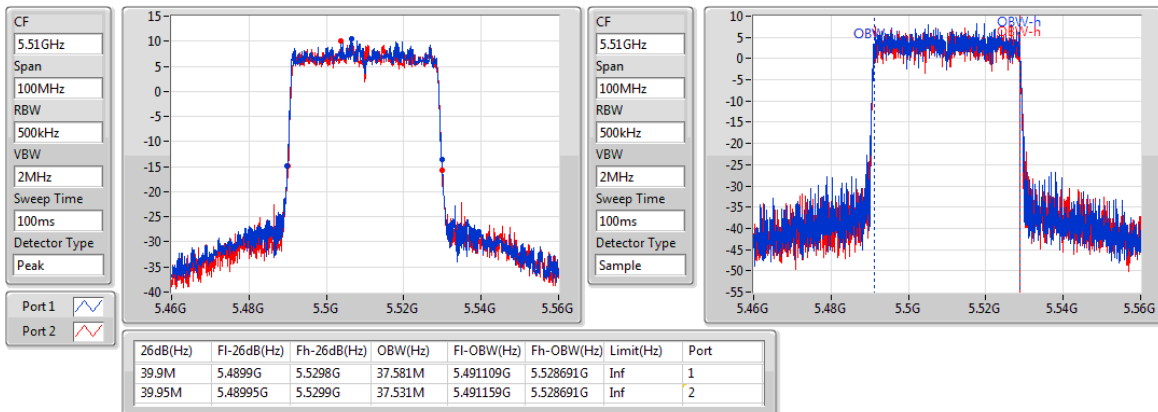


802.11ax HEW40_Nss2,(MCS0)_2TX
EBW
5310MHz

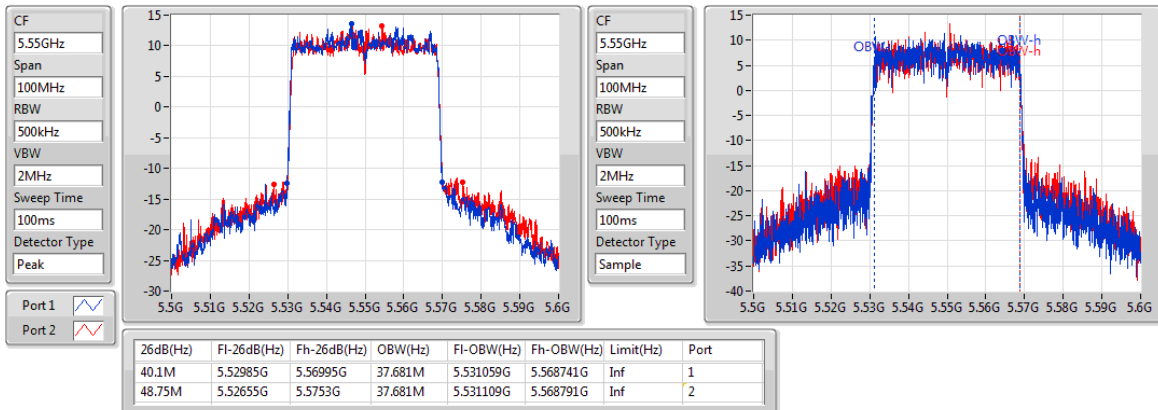
15/11/2018


802.11ax HEW40_Nss2,(MCS0)_2TX
EBW
5510MHz

15/11/2018

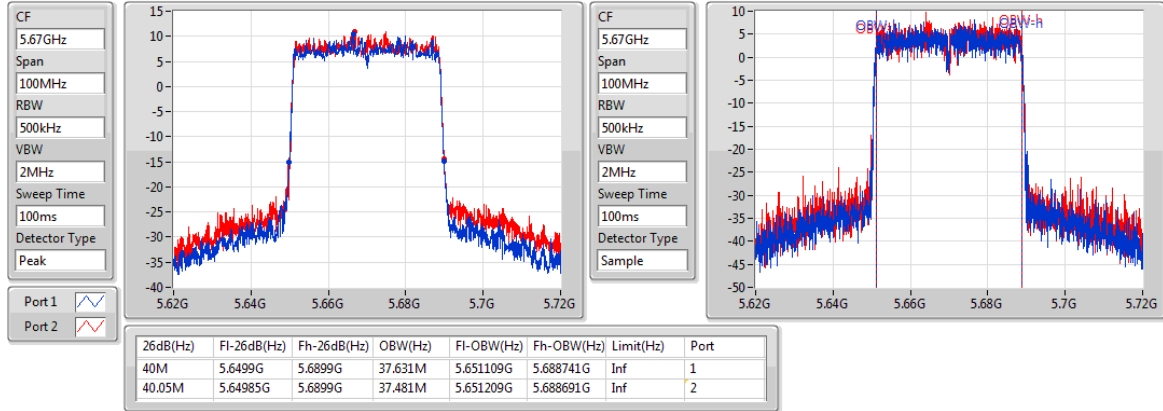

802.11ax HEW40_Nss2,(MCS0)_2TX
EBW
5550MHz

15/11/2018

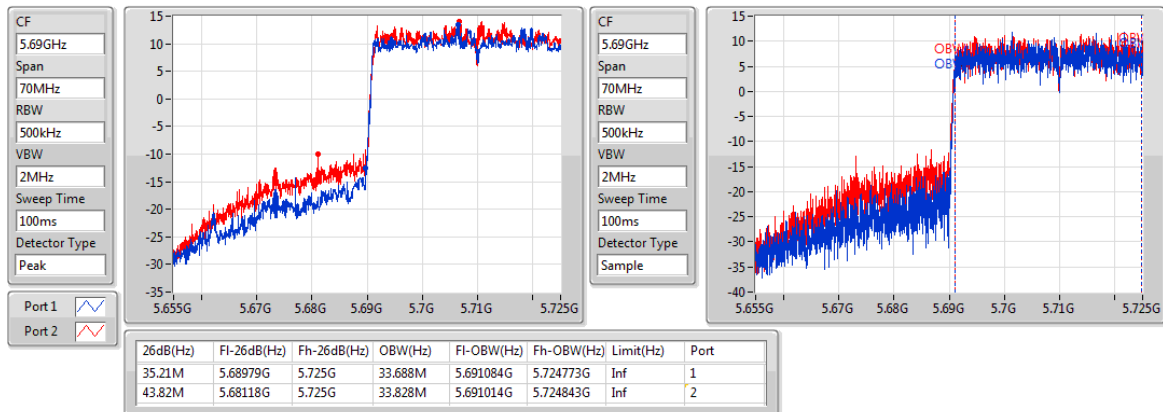


802.11ax HEW40_Nss2,(MCS0)_2TX
EBW
5670MHz

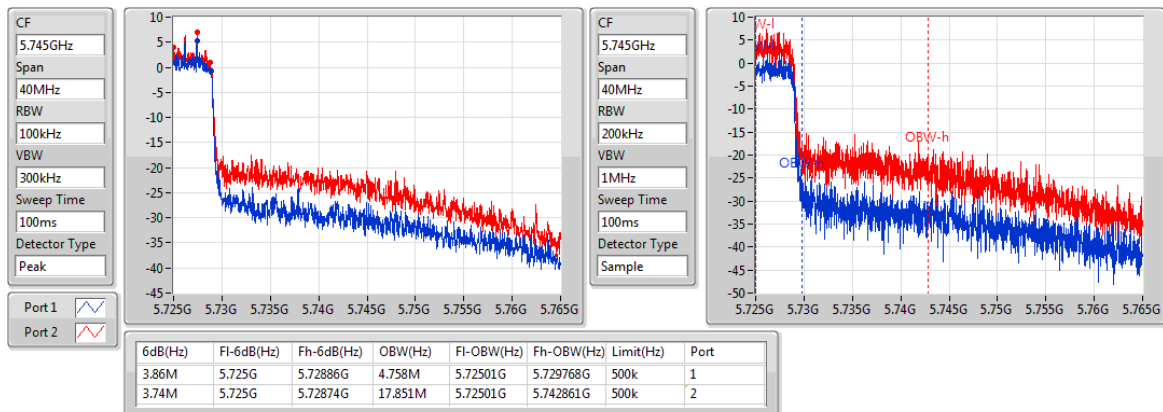
15/11/2018


802.11ax HEW40_Nss2,(MCS0)_2TX
EBW
5710MHz Straddle 5.47-5.725GHz

15/11/2018

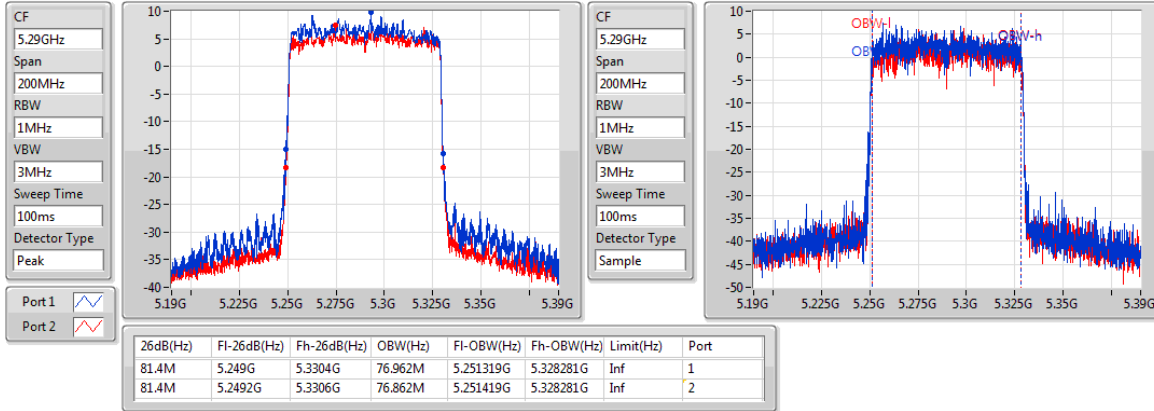

802.11ax HEW40_Nss2,(MCS0)_2TX
EBW
5710MHz Straddle 5.725-5.85GHz

15/11/2018

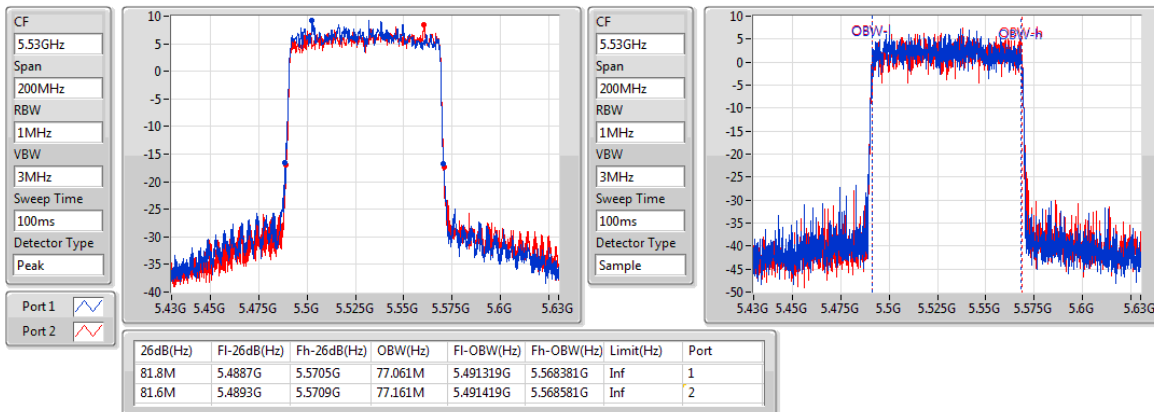


802.11ax HEW80_Nss2,(MCS0)_2TX
EBW
5290MHz

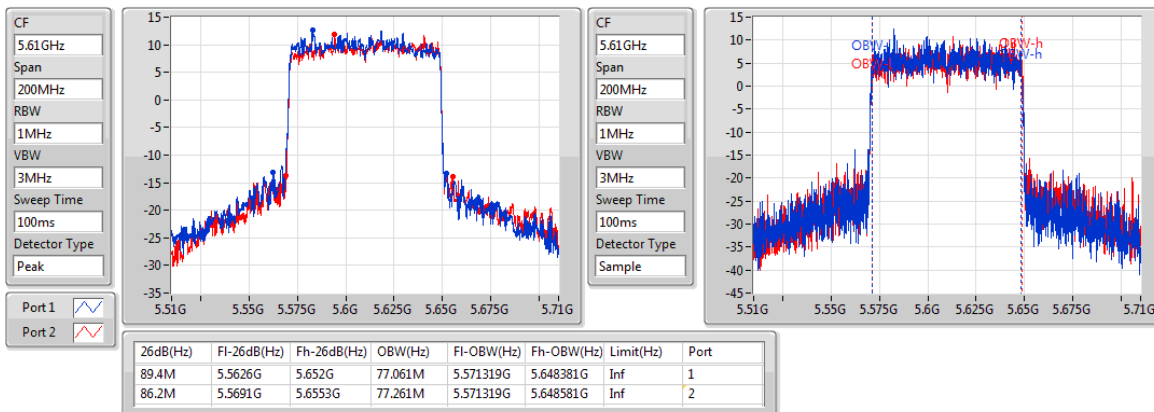
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802.11ax HEW80_Nss2,(MCS0)_2TX
EBW
5530MHz

15/11/2018

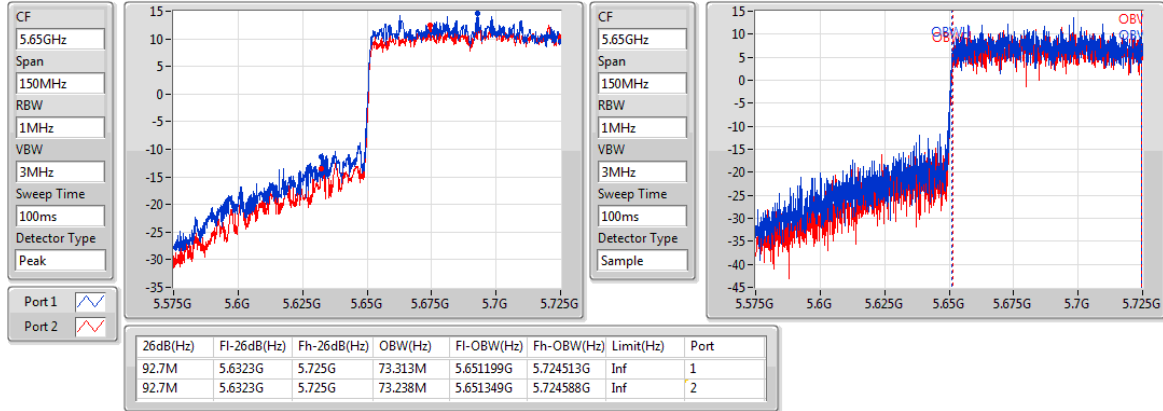

802.11ax HEW80_Nss2,(MCS0)_2TX
EBW
5610MHz

15/11/2018

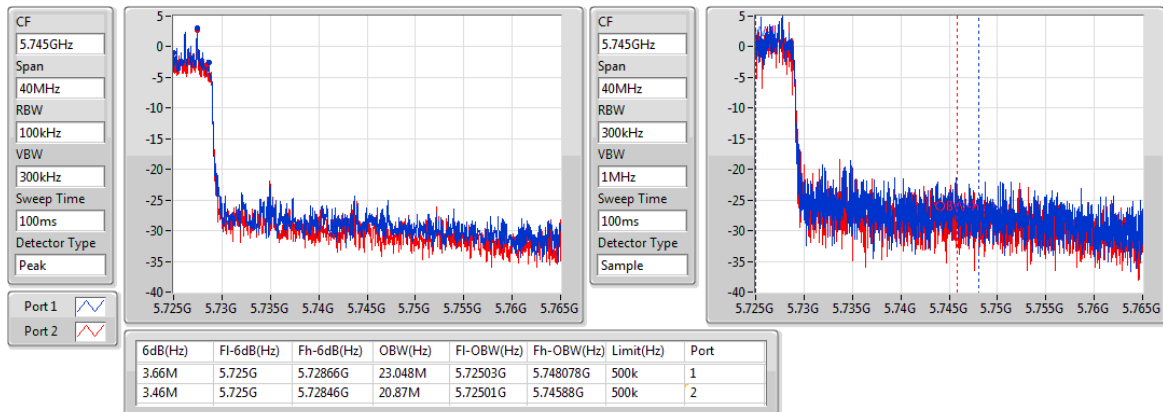


802.11ax HEW80_Nss2,(MCS0)_2TX
EBW
5690MHz Straddle 5.47-5.725GHz

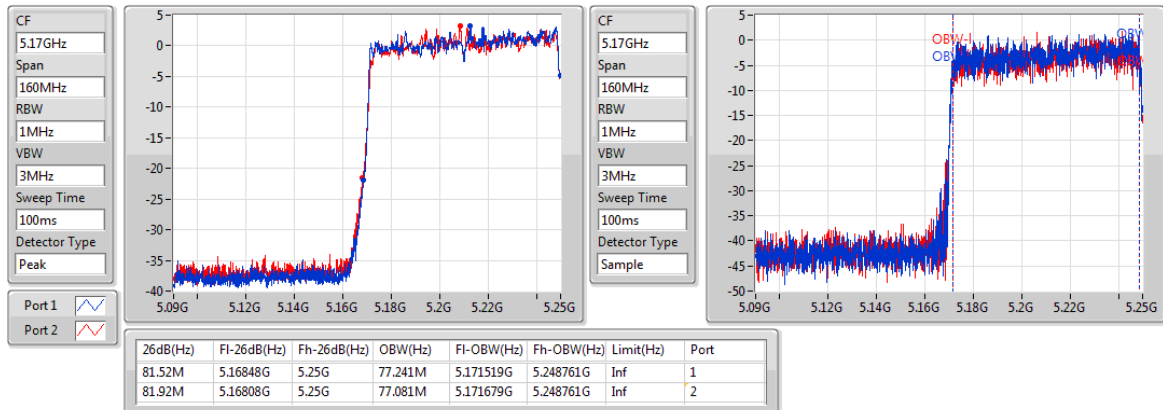
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802.11ax HEW80_Nss2,(MCS0)_2TX
EBW
5690MHz Straddle 5.725-5.85GHz

15/11/2018

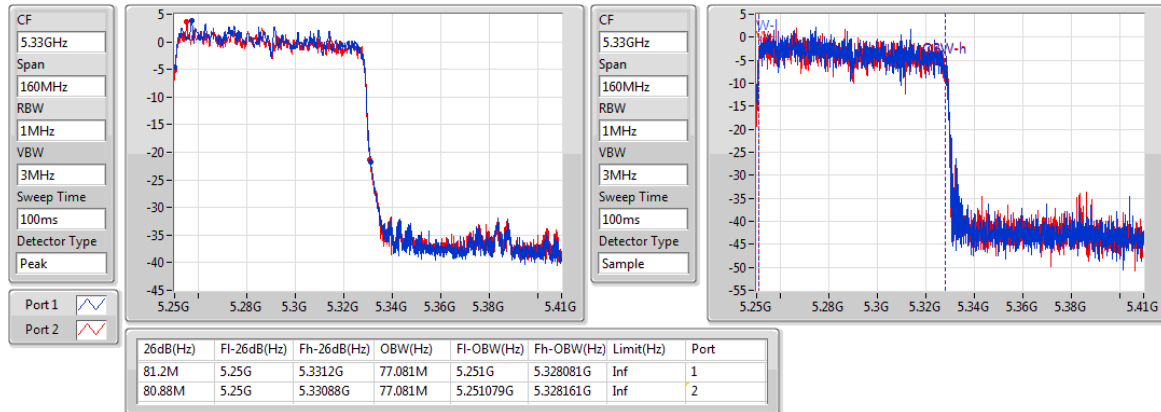

802.11ax HEW160_Nss2,(MCS0)_2TX
EBW
5250MHz Straddle 5.15-5.25GHz

15/11/2018

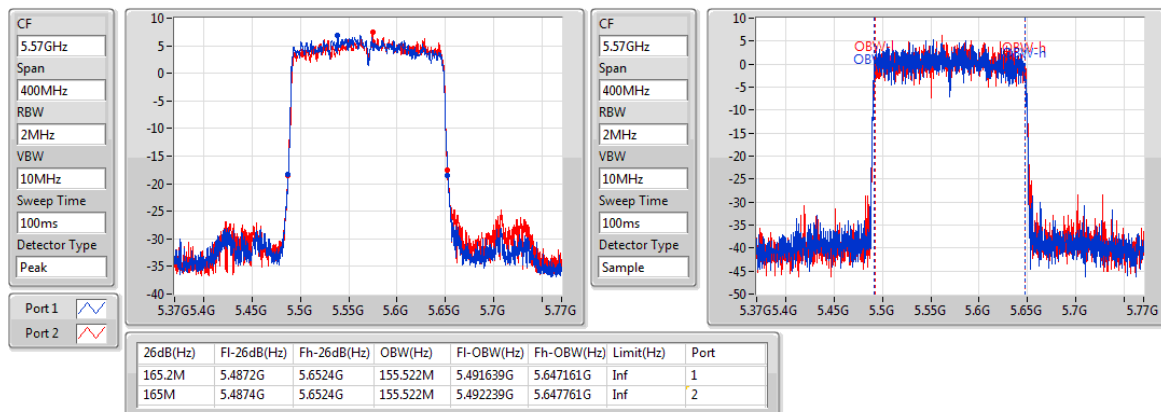


802.11ax HEW160_Nss2,(MCS0)_2TX
EBW
5250MHz Straddle 5.25-5.35GHz

15/11/2018


802.11ax HEW160_Nss2,(MCS0)_2TX
EBW
5570MHz

15/11/2018



Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.25-5.35GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	21.625M	16.617M	16M6D1D	21.4M	16.517M
5.47-5.725GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	21.725M	16.592M	16M6D1D	15.63M	13.313M
5.725-5.85GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	3.1M	3.918M	3M92D1D	3.1M	3.858M

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

Max-OBW = Maximum 99% occupied bandwidth;

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

Min-OBW = Minimum 99% occupied bandwidth;

Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)	Port 3-N dB (Hz)	Port 3-OBW (Hz)	Port 4-N dB (Hz)	Port 4-OBW (Hz)
802.11a_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-	-	-
5260MHz	Pass	Inf	21.475M	16.567M	21.525M	16.517M	21.575M	16.567M	21.4M	16.592M
5300MHz	Pass	Inf	21.525M	16.542M	21.45M	16.592M	21.625M	16.592M	21.55M	16.542M
5320MHz	Pass	Inf	21.5M	16.592M	21.6M	16.617M	21.625M	16.567M	21.6M	16.542M
5500MHz	Pass	Inf	21.575M	16.567M	21.575M	16.567M	21.7M	16.567M	21.525M	16.592M
5580MHz	Pass	Inf	21.55M	16.542M	21.475M	16.567M	21.675M	16.542M	21.55M	16.542M
5700MHz	Pass	Inf	21.6M	16.592M	21.525M	16.592M	21.725M	16.567M	21.35M	16.542M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	15.63M	13.313M	15.645M	13.328M	15.765M	13.358M	15.735M	13.328M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	3.1M	3.858M	3.1M	3.878M	3.1M	3.918M	3.1M	3.898M

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

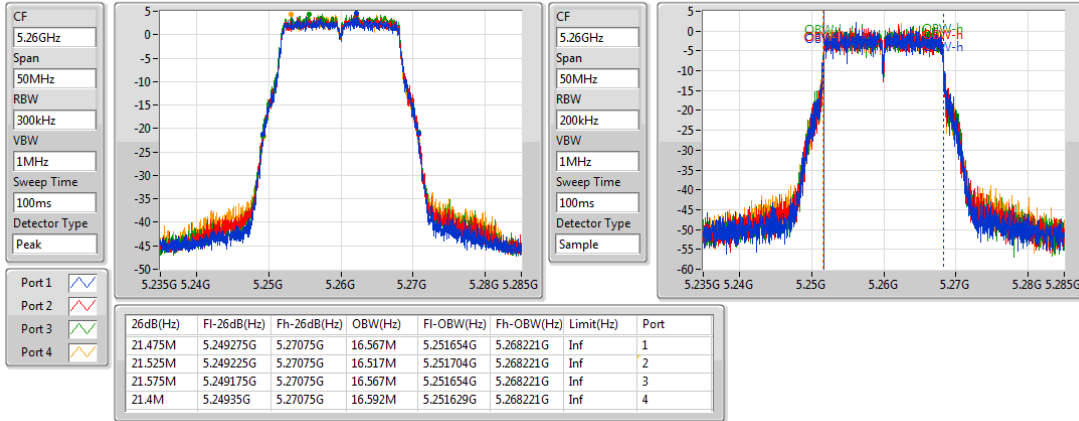
Port X-OBW = Port X 99% occupied bandwidth;

802.11a_Nss1,(6Mbps)_4TX

EBW

5260MHz

15/11/2018

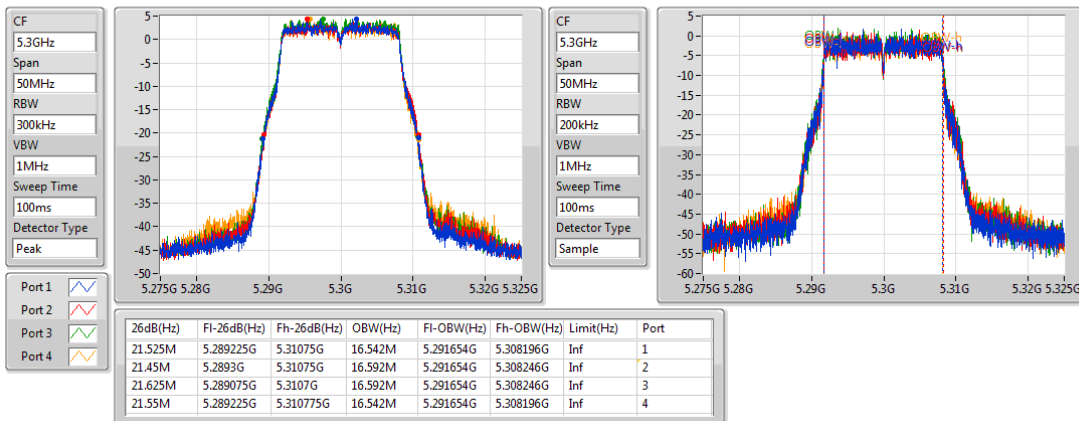


802.11a_Nss1,(6Mbps)_4TX

EBW

5300MHz

15/11/2018

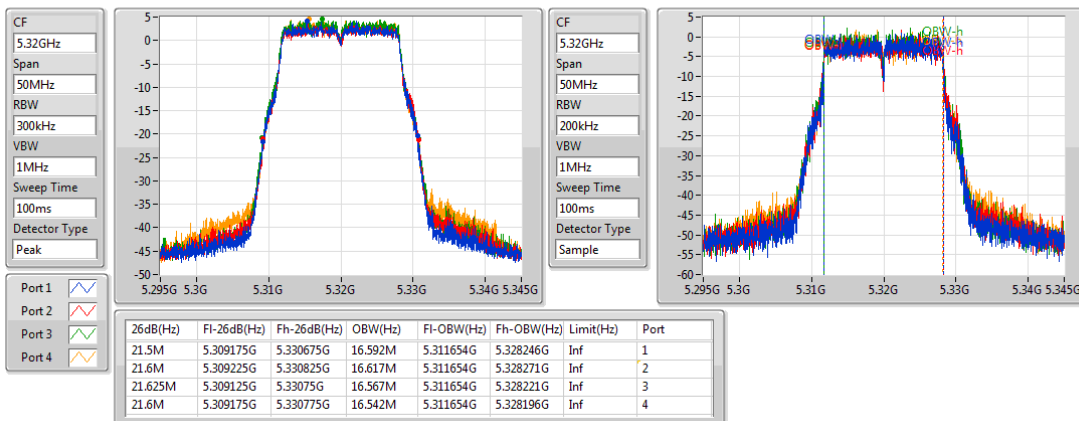


802.11a_Nss1,(6Mbps)_4TX

EBW

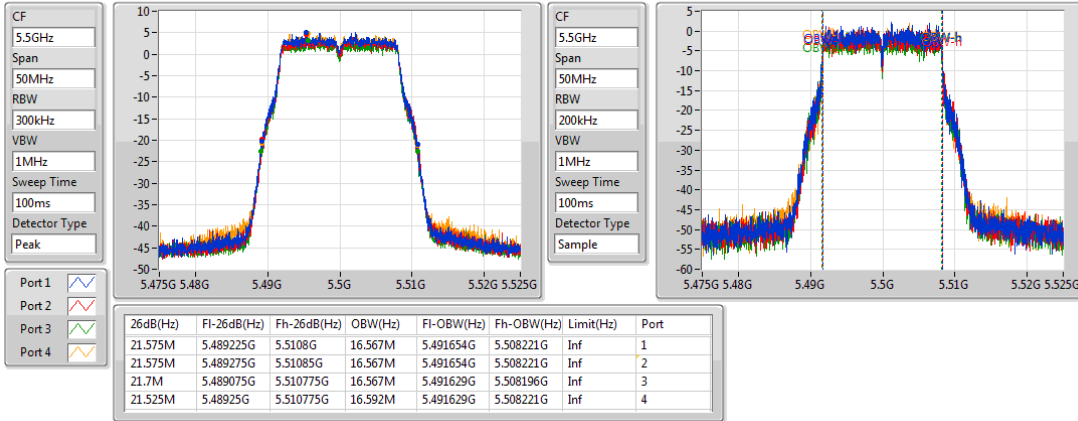
5320MHz

15/11/2018

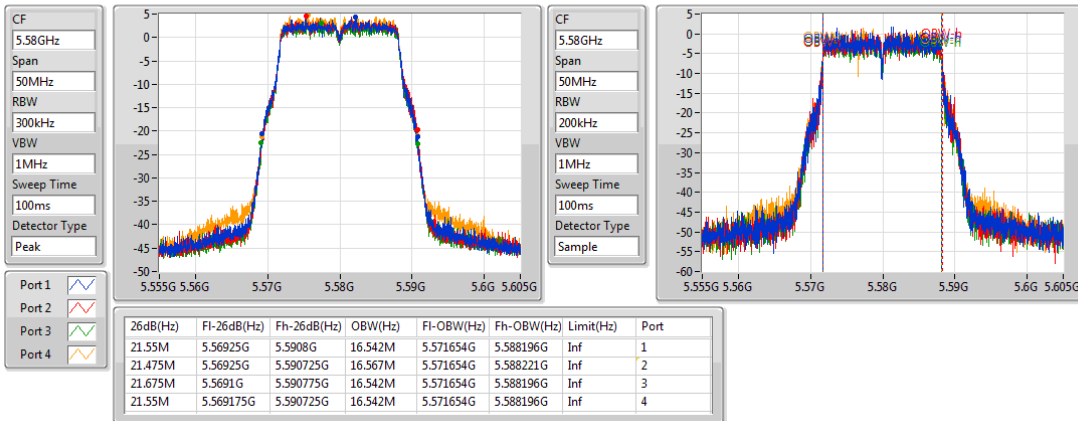


802.11a_Nss1,(6Mbps)_4TX
EBW
5500MHz

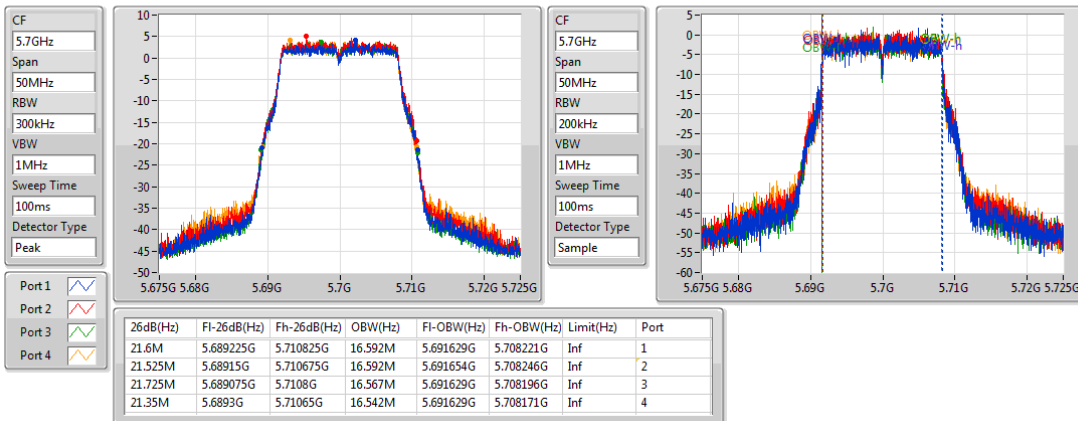
15/11/2018


802.11a_Nss1,(6Mbps)_4TX
EBW
5580MHz

15/11/2018


802.11a_Nss1,(6Mbps)_4TX
EBW
5700MHz

15/11/2018

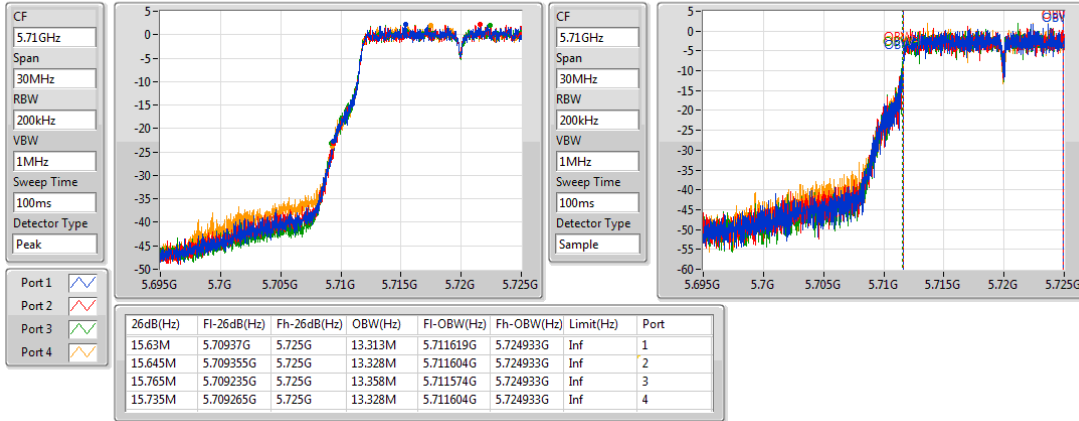


802.11a_Nss1,(6Mbps)_4TX

EBW

5720MHz Straddle 5.47-5.725GHz

15/11/2018

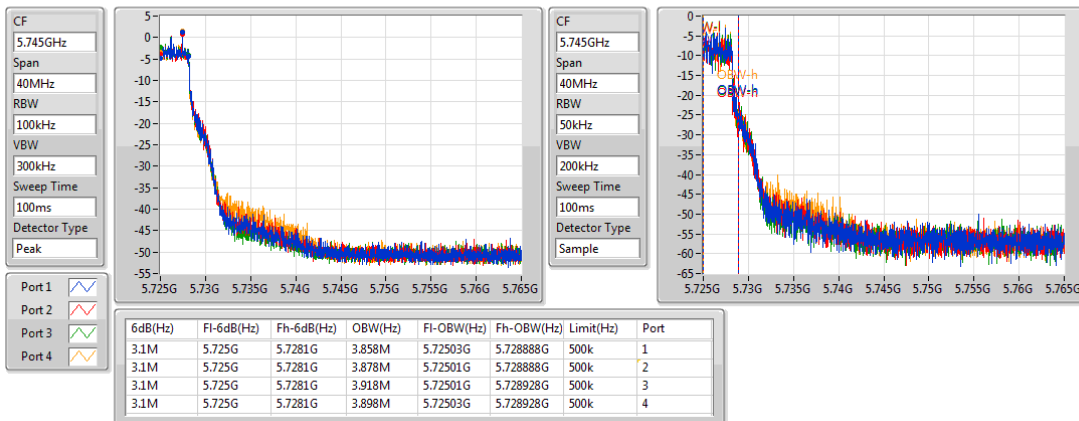


802.11a_Nss1,(6Mbps)_4TX

EBW

5720MHz Straddle 5.725-5.85GHz

15/11/2018



Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.15-5.25GHz	-	-	-	-	-
802.11ax HEW160_Nss1,(MCS0)_4TX	81.04M	77.321M	77M3D1D	80.72M	77.161M
5.25-5.35GHz	-	-	-	-	-
802.11ax HEW20_Nss1,(MCS0)_4TX	21.825M	18.991M	19M0D1D	21.35M	18.916M
802.11ax HEW40_Nss1,(MCS0)_4TX	40.2M	37.581M	37M6D1D	39.8M	37.481M
802.11ax HEW80_Nss1,(MCS0)_4TX	81.7M	77.061M	77M1D1D	81.2M	76.662M
802.11ax HEW160_Nss1,(MCS0)_4TX	81.84M	77.081M	77M1D1D	80.56M	77.001M
5.47-5.725GHz	-	-	-	-	-
802.11ax HEW20_Nss1,(MCS0)_4TX	21.925M	18.991M	19M0D1D	15.66M	14.498M
802.11ax HEW40_Nss1,(MCS0)_4TX	40.1M	37.631M	37M6D1D	34.93M	33.618M
802.11ax HEW80_Nss1,(MCS0)_4TX	81.6M	77.161M	77M2D1D	75.6M	73.088M
802.11ax HEW160_Nss1,(MCS0)_4TX	166M	155.522M	156MD1D	163.8M	154.923M
5.725-5.85GHz	-	-	-	-	-
802.11ax HEW20_Nss1,(MCS0)_4TX	4.48M	4.478M	4M48D1D	4.44M	4.478M
802.11ax HEW40_Nss1,(MCS0)_4TX	3.94M	3.998M	4M00D1D	3.64M	3.978M
802.11ax HEW80_Nss1,(MCS0)_4TX	3.72M	4.038M	4M04D1D	3.42M	3.998M

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

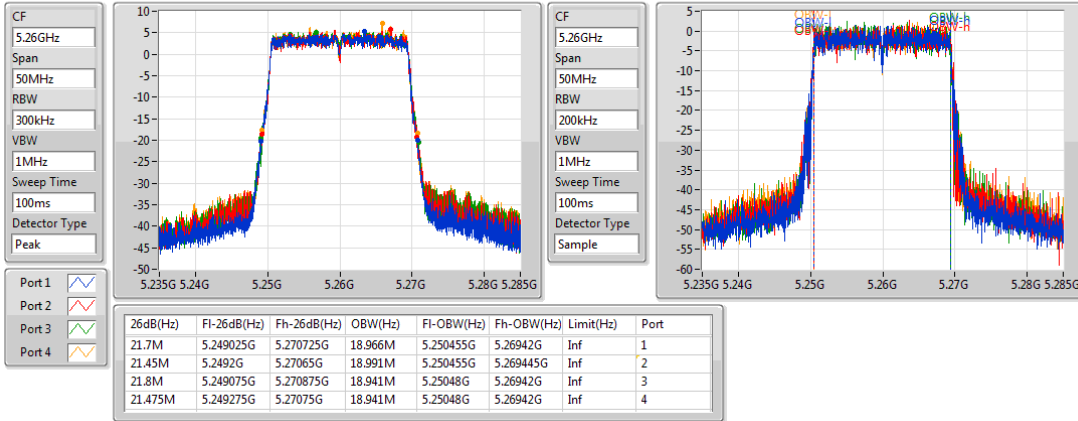
Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)	Port 3-N dB (Hz)	Port 3-OBW (Hz)	Port 4-N dB (Hz)	Port 4-OBW (Hz)
802.11ax HEW20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5260MHz	Pass	Inf	21.7M	18.966M	21.45M	18.991M	21.8M	18.941M	21.475M	18.941M
5300MHz	Pass	Inf	21.725M	18.966M	21.7M	18.966M	21.825M	18.941M	21.425M	18.941M
5320MHz	Pass	Inf	21.75M	18.916M	21.525M	18.966M	21.725M	18.941M	21.35M	18.941M
5500MHz	Pass	Inf	21.725M	18.966M	21.7M	18.941M	21.925M	18.966M	21.475M	18.966M
5580MHz	Pass	Inf	21.75M	18.966M	21.625M	18.991M	21.9M	18.966M	21.675M	18.966M
5700MHz	Pass	Inf	21.7M	18.966M	21.675M	18.941M	21.825M	18.991M	21.45M	18.966M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	15.96M	14.498M	15.81M	14.498M	15.87M	14.528M	15.66M	14.498M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	4.44M	4.478M	4.46M	4.478M	4.48M	4.478M	4.48M	4.478M
802.11ax HEW40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5270MHz	Pass	Inf	39.9M	37.531M	40M	37.531M	40M	37.531M	40.2M	37.581M
5310MHz	Pass	Inf	39.95M	37.531M	39.9M	37.481M	39.95M	37.481M	39.8M	37.531M
5510MHz	Pass	Inf	39.9M	37.581M	40.1M	37.531M	40.05M	37.581M	40M	37.581M
5550MHz	Pass	Inf	40M	37.531M	40.1M	37.631M	40M	37.581M	40.05M	37.531M
5670MHz	Pass	Inf	39.85M	37.581M	40.05M	37.481M	40.1M	37.531M	40.05M	37.581M
5710MHz Straddle 5.47-5.725GHz	Pass	Inf	35.035M	33.723M	34.93M	33.688M	35.07M	33.618M	35.14M	33.723M
5710MHz Straddle 5.725-5.85GHz	Pass	500k	3.94M	3.998M	3.7M	3.978M	3.64M	3.998M	3.7M	3.998M
802.11ax HEW80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5290MHz	Pass	Inf	81.7M	76.662M	81.3M	76.962M	81.2M	77.061M	81.6M	77.061M
5530MHz	Pass	Inf	81.6M	77.061M	81.4M	77.161M	81.2M	77.161M	81.3M	77.161M
5610MHz	Pass	Inf	81.5M	76.962M	81.3M	77.061M	81.3M	77.061M	81.5M	76.862M
5690MHz Straddle 5.47-5.725GHz	Pass	Inf	75.825M	73.238M	75.75M	73.163M	75.6M	73.088M	76.125M	73.238M
5690MHz Straddle 5.725-5.85GHz	Pass	500k	3.44M	4.018M	3.72M	3.998M	3.42M	4.038M	3.72M	4.038M
802.11ax HEW160_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	Inf	80.96M	77.161M	80.8M	77.321M	81.04M	77.161M	80.72M	77.321M
5250MHz Straddle 5.25-5.35GHz	Pass	Inf	81.2M	77.081M	81.36M	77.001M	80.56M	77.081M	81.84M	77.001M
5570MHz	Pass	Inf	165.2M	154.923M	166M	155.522M	163.8M	155.522M	164.6M	155.322M

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

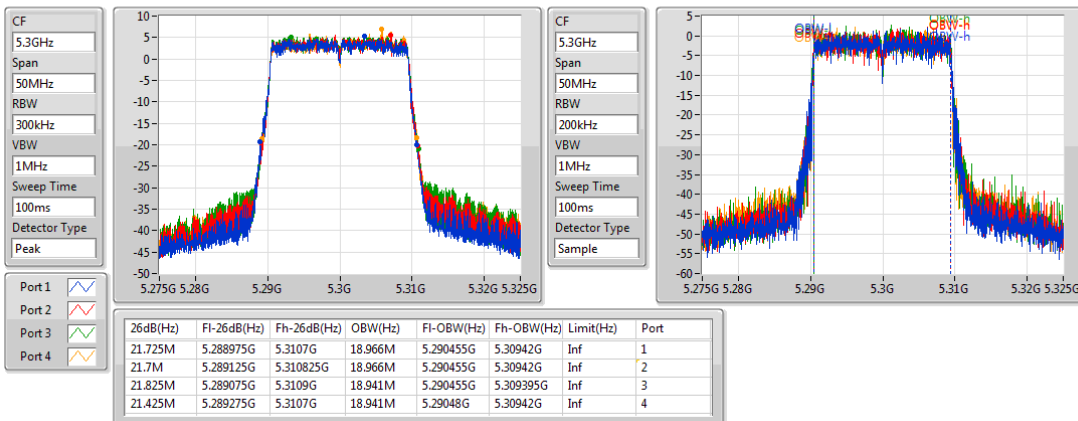
Port X-OBW = Port X 99% occupied bandwidth;

802.11ax HEW20_Nss1,(MCS0)_4TX
EBW
5260MHz

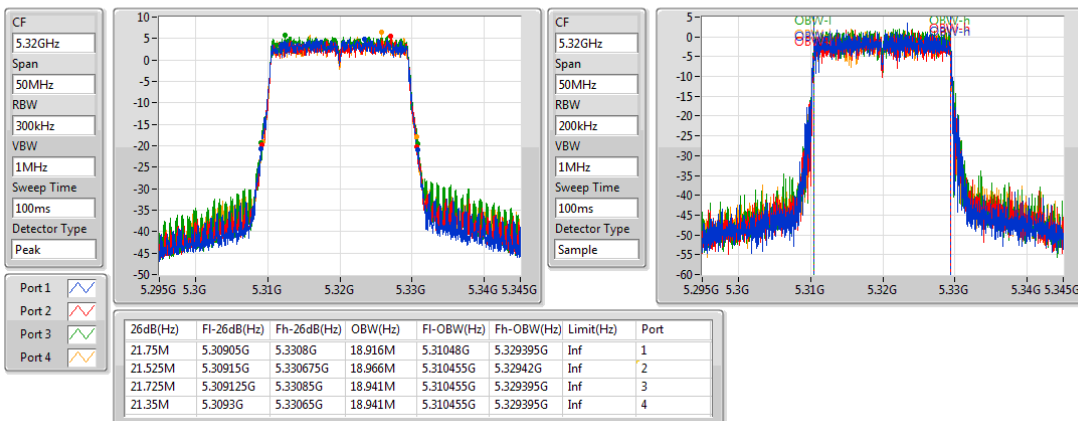
15/11/2018


802.11ax HEW20_Nss1,(MCS0)_4TX
EBW
5300MHz

15/11/2018

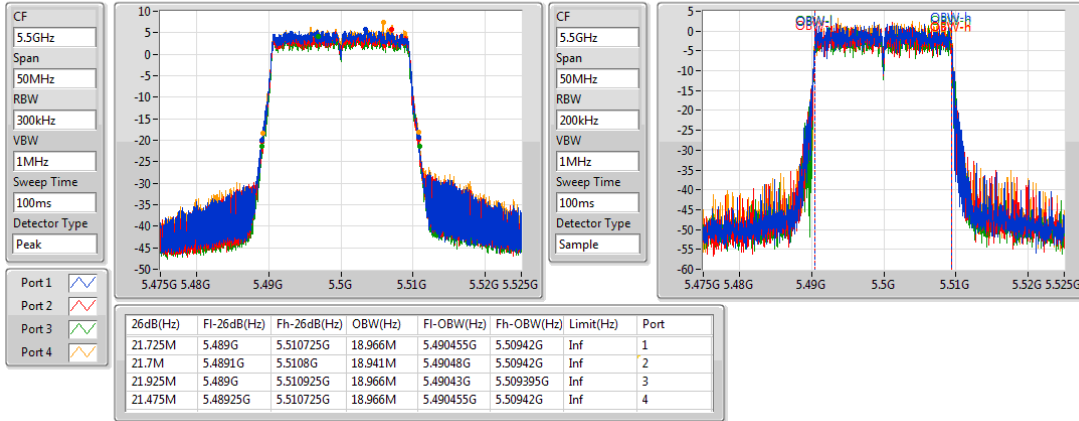

802.11ax HEW20_Nss1,(MCS0)_4TX
EBW
5320MHz

15/11/2018

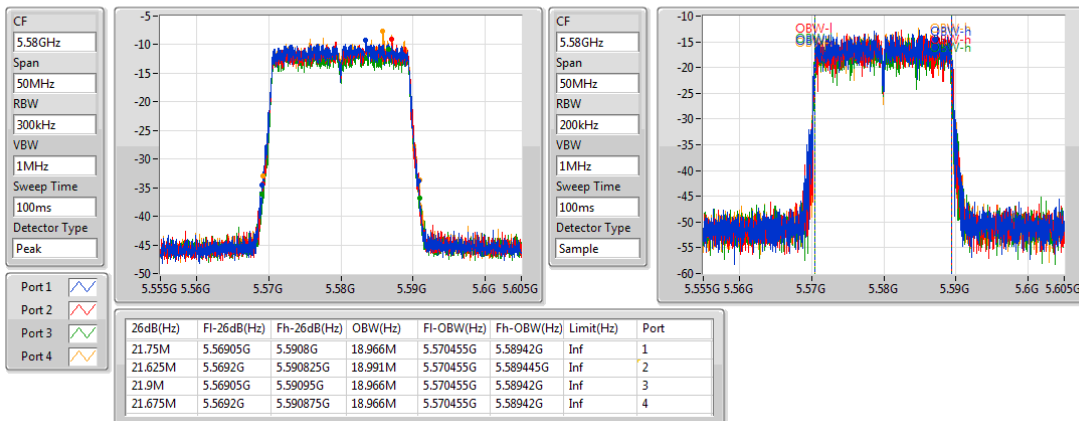


802.11ax HEW20_Nss1,(MCS0)_4TX
EBW
5500MHz

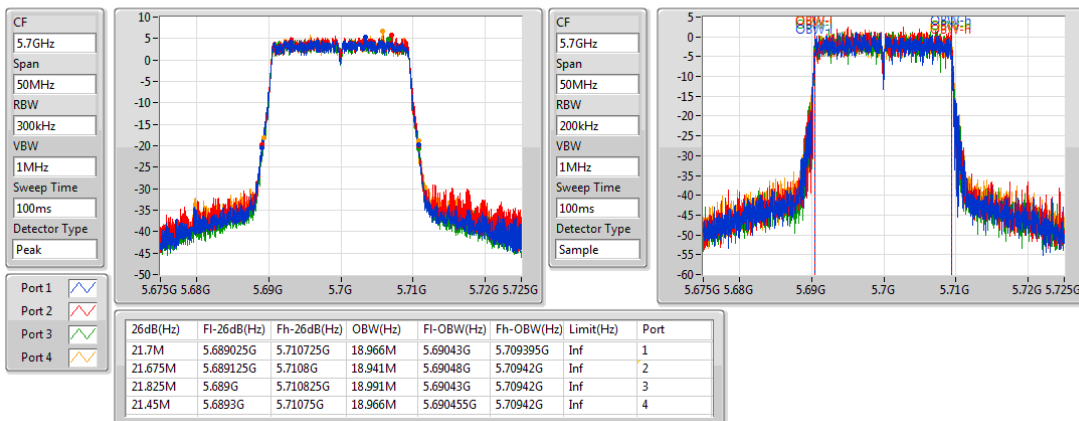
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802.11ax HEW20_Nss1,(MCS0)_4TX
EBW
5580MHz

15/11/2018

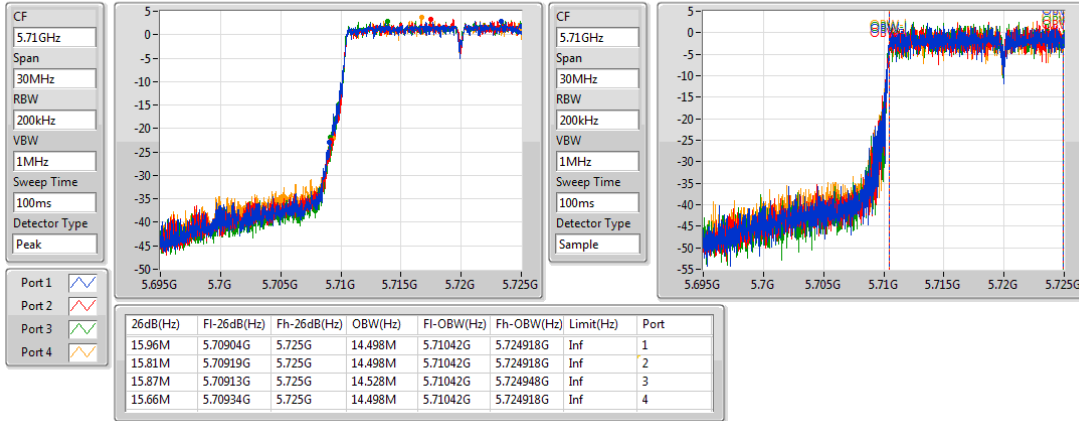

802.11ax HEW20_Nss1,(MCS0)_4TX
EBW
5700MHz

15/11/2018

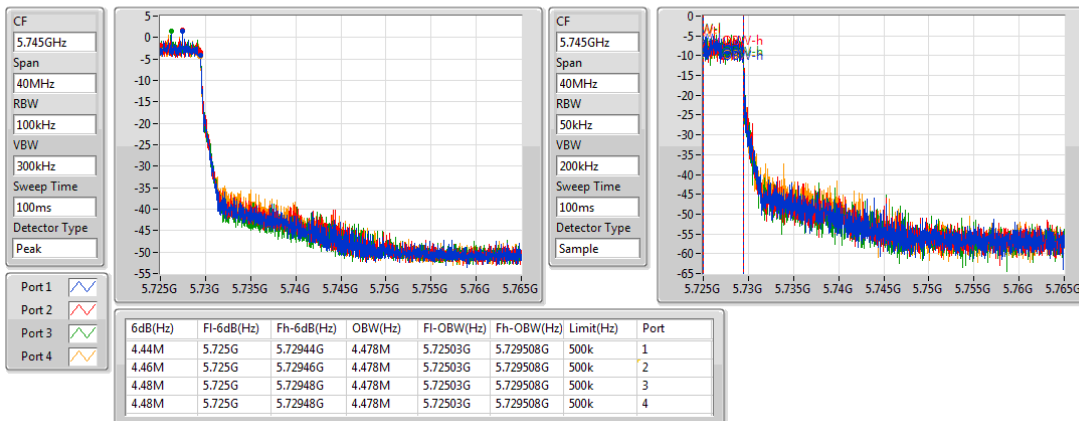


802.11ax HEW20_Nss1,(MCS0)_4TX
EBW
5720MHz Straddle 5.47-5.725GHz

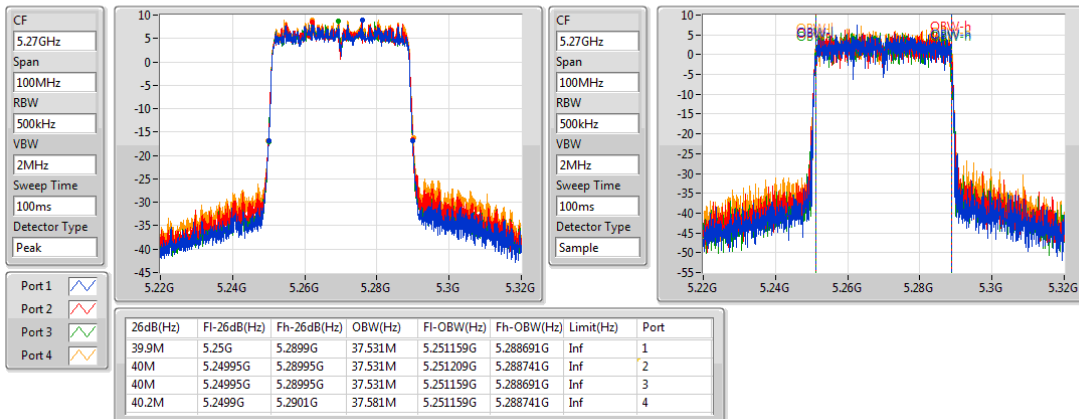
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802.11ax HEW20_Nss1,(MCS0)_4TX
EBW
5720MHz Straddle 5.725-5.85GHz

15/11/2018

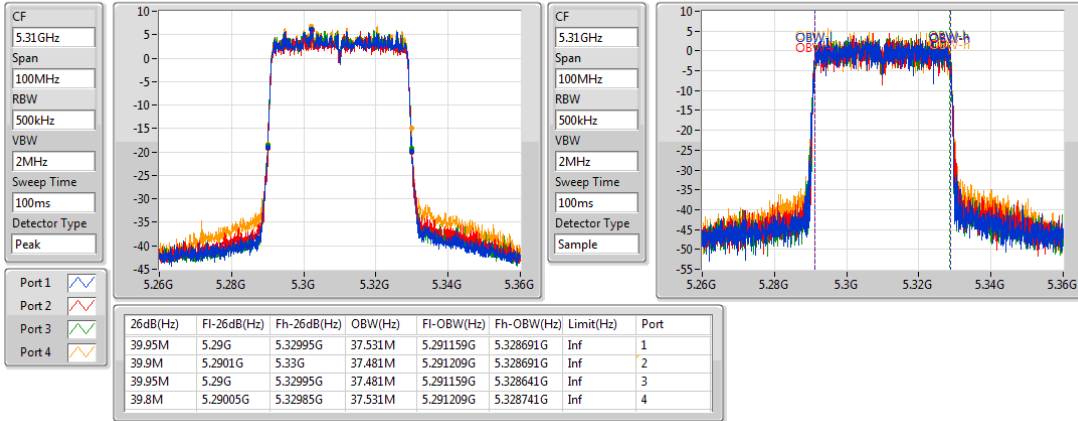

802.11ax HEW40_Nss1,(MCS0)_4TX
EBW
5270MHz

15/11/2018

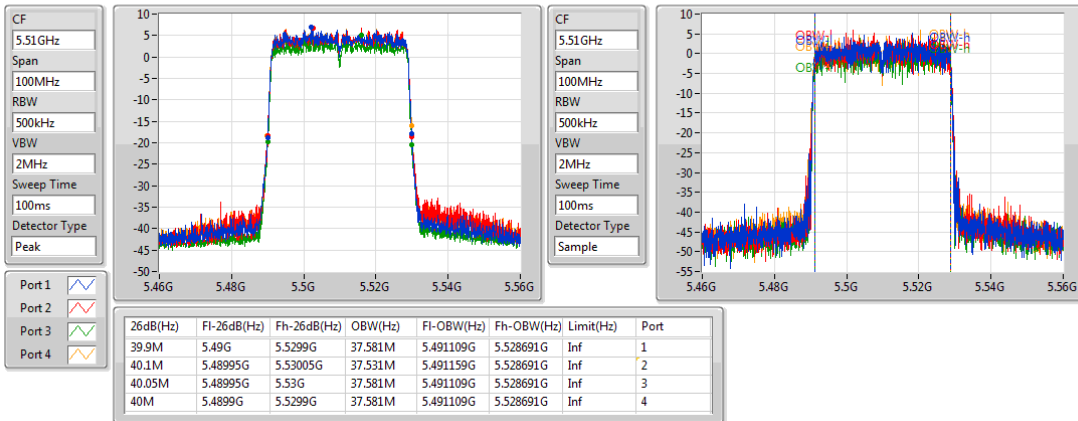


802.11ax HEW40_Nss1,(MCS0)_4TX
EBW
5310MHz

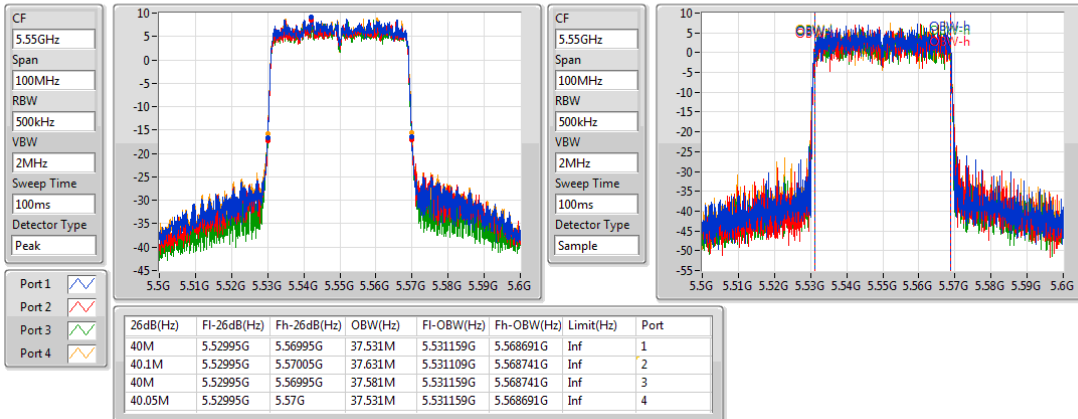
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802.11ax HEW40_Nss1,(MCS0)_4TX
EBW
5510MHz

15/11/2018

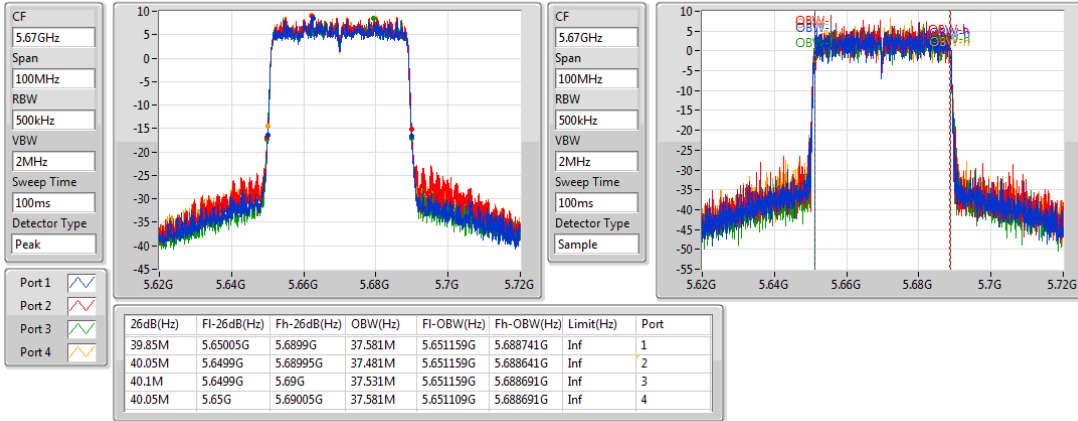

802.11ax HEW40_Nss1,(MCS0)_4TX
EBW
5550MHz

15/11/2018

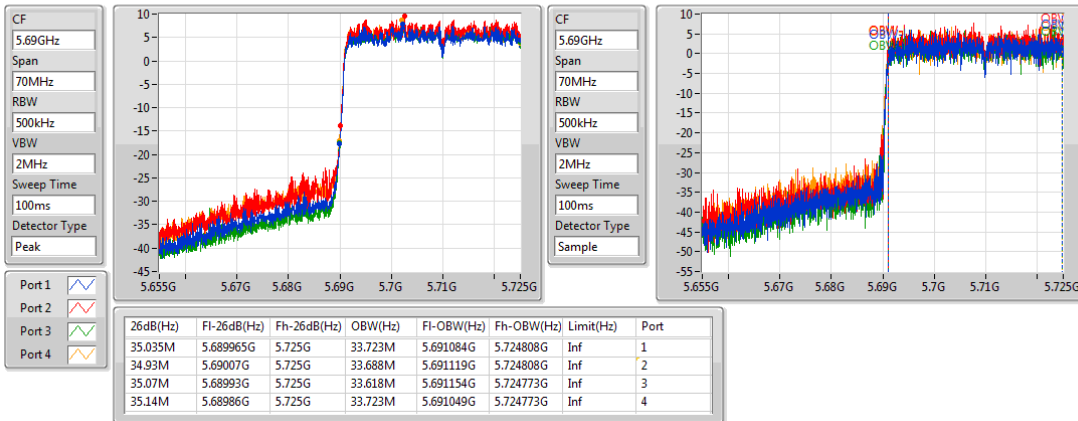


802.11ax HEW40_Nss1,(MCS0)_4TX
EBW
5670MHz

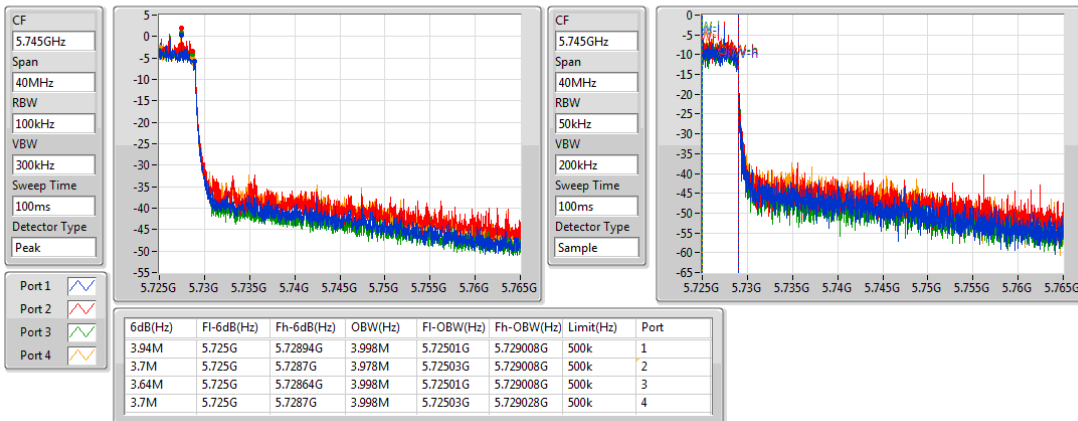
15/11/2018


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

15/11/2018

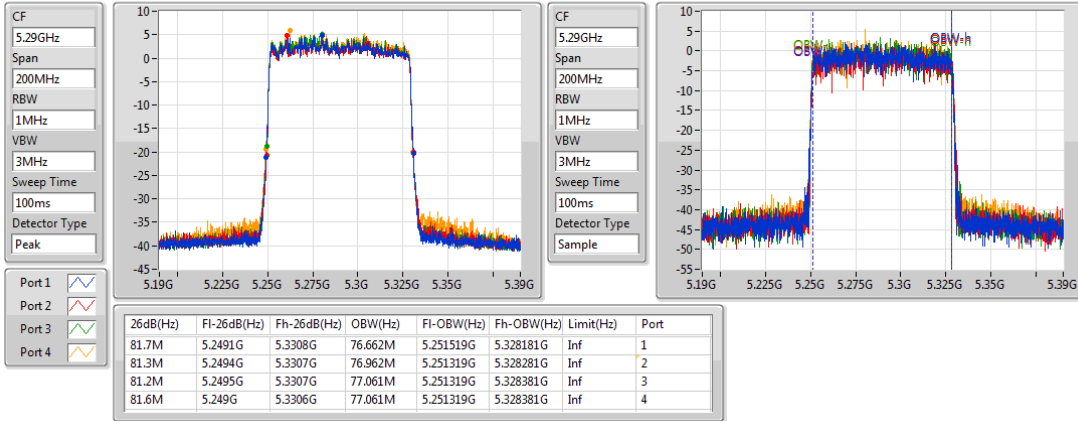

802.11ax HEW40_Nss1,(MCS0)_4TX
EBW
5710MHz Straddle 5.725-5.85GHz

15/11/2018

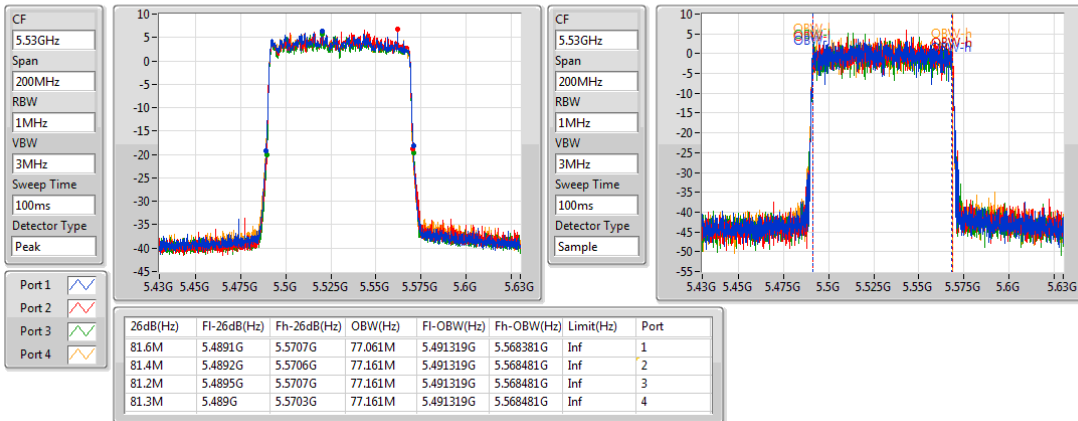


802.11ax HEW80_Nss1,(MCS0)_4TX
EBW
5290MHz

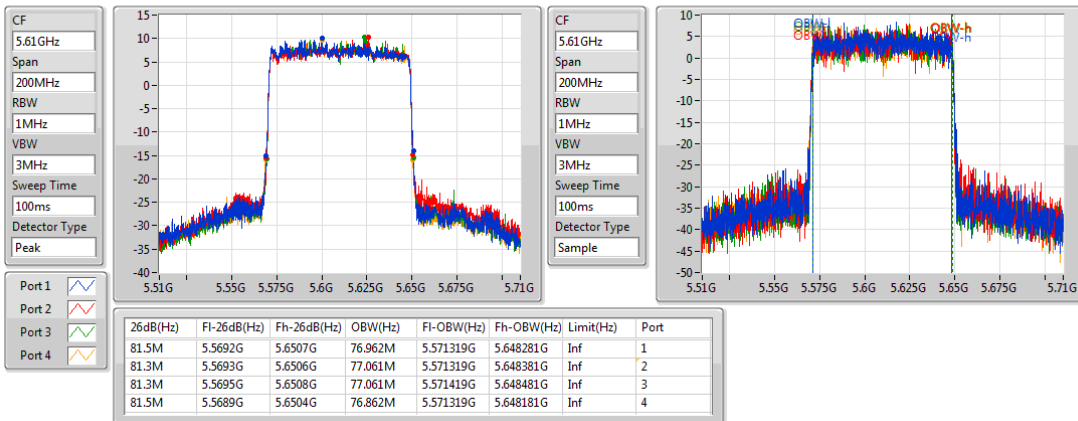
15/11/2018


802.11ax HEW80_Nss1,(MCS0)_4TX
EBW
5530MHz

15/11/2018

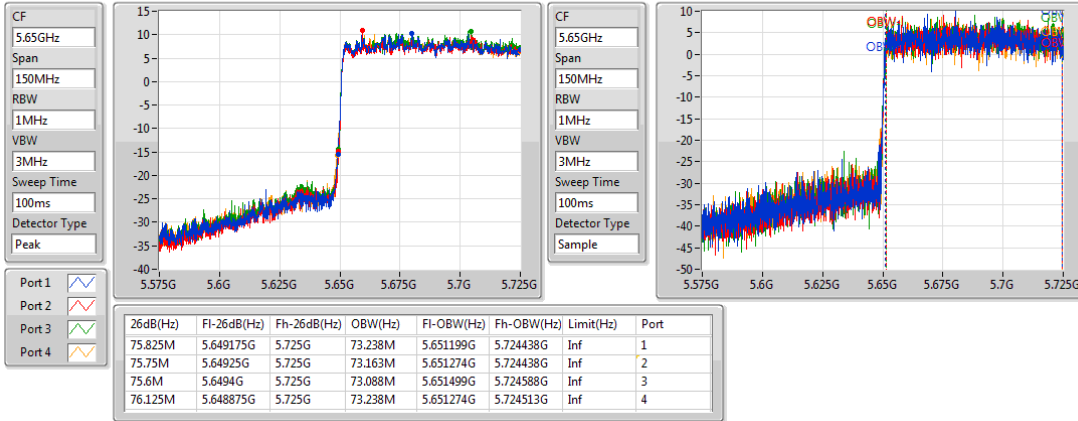

802.11ax HEW80_Nss1,(MCS0)_4TX
EBW
5610MHz

15/11/2018

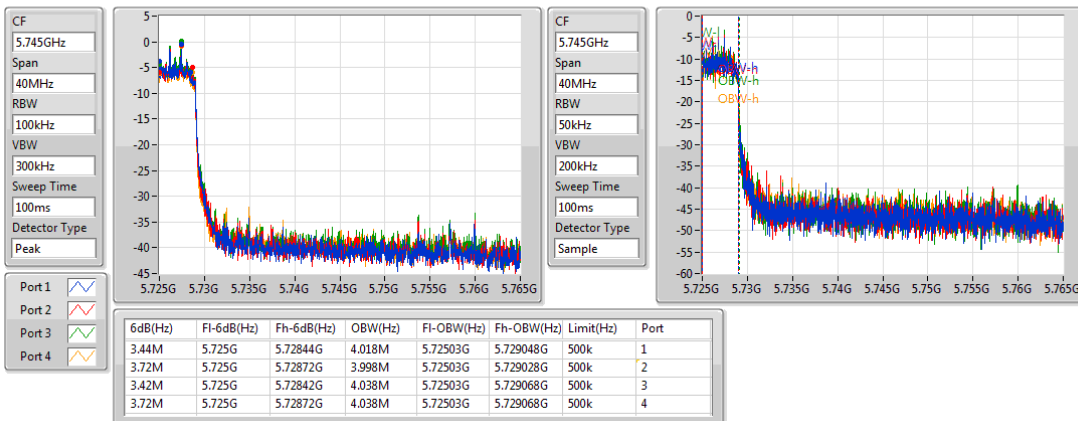


802.11ax HEW80_Nss1,(MCS0)_4TX
EBW
5690MHz Straddle 5.47-5.725GHz

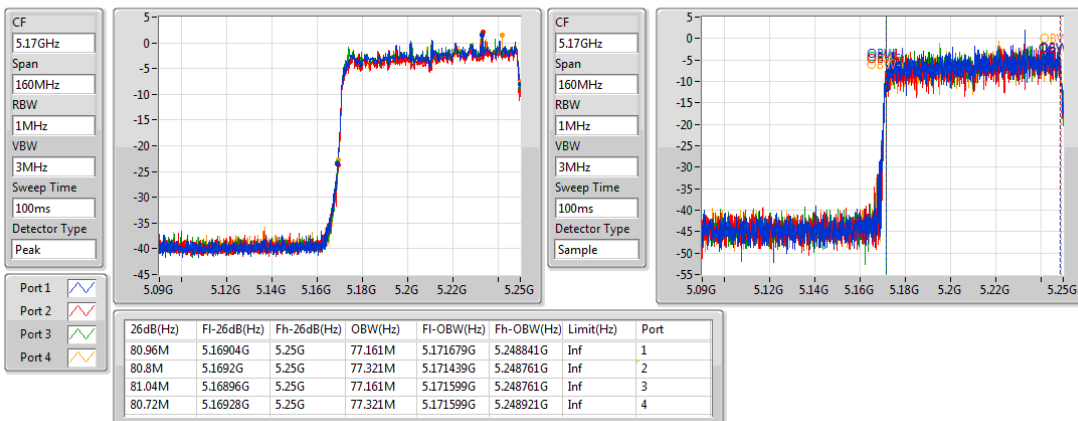
15/11/2018


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

15/11/2018


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

15/11/2018

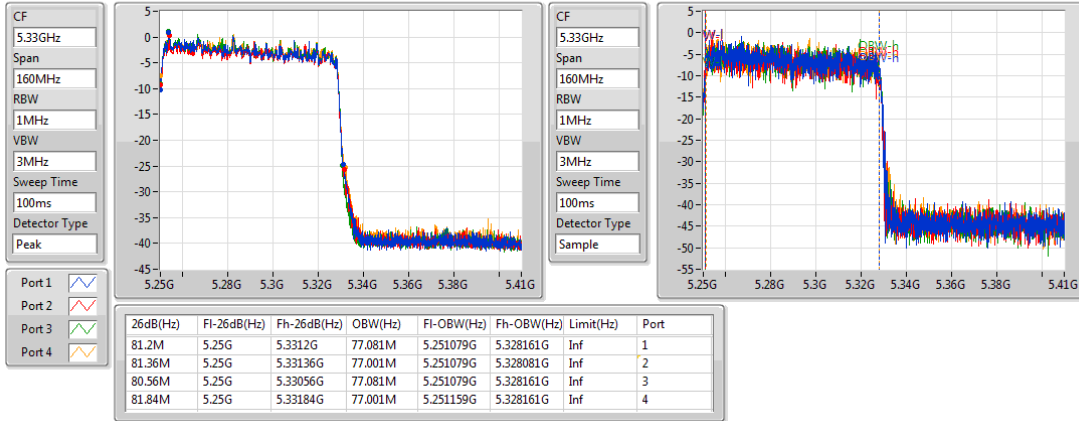


802.11ax HEW160_Nss1,(MCS0)_4TX

EBW

5250MHz Straddle 5.25-5.35GHz

15/11/2018

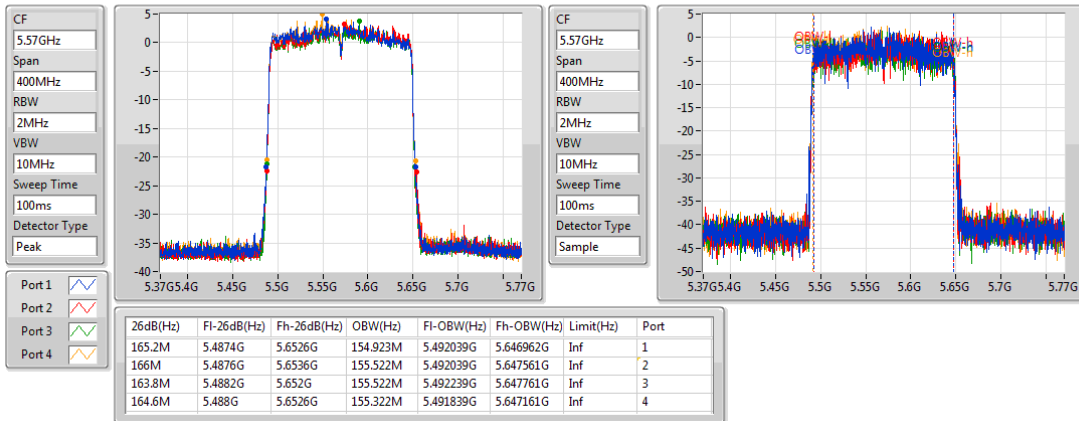


802.11ax HEW160_Nss1,(MCS0)_4TX

EBW

5570MHz

15/11/2018



Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.15-5.25GHz	-	-	-	-	-
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	81.2M	77.321M	77M3D1D	80.8M	77.001M
5.25-5.35GHz	-	-	-	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	21.875M	18.991M	19M0D1D	21.375M	18.941M
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	40.2M	37.581M	37M6D1D	39.9M	37.481M
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	82.2M	77.161M	77M2D1D	81.4M	76.862M
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	81.6M	77.081M	77M1D1D	80.96M	76.922M
5.47-5.725GHz	-	-	-	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	21.925M	19.015M	19M0D1D	15.72M	14.483M
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	40.1M	37.581M	37M6D1D	35.035M	33.688M
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	82.1M	77.261M	77M3D1D	75.525M	73.088M
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	165.4M	155.522M	156MD1D	164M	155.122M
5.725-5.85GHz	-	-	-	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	4.48M	4.538M	4M54D1D	4.44M	4.498M
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	3.86M	4.018M	4M02D1D	3.74M	3.978M
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	3.88M	4.038M	4M04D1D	3.64M	3.998M

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

Max-OBW = Maximum 99% occupied bandwidth;

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

Min-OBW = Minimum 99% occupied bandwidth;

Result

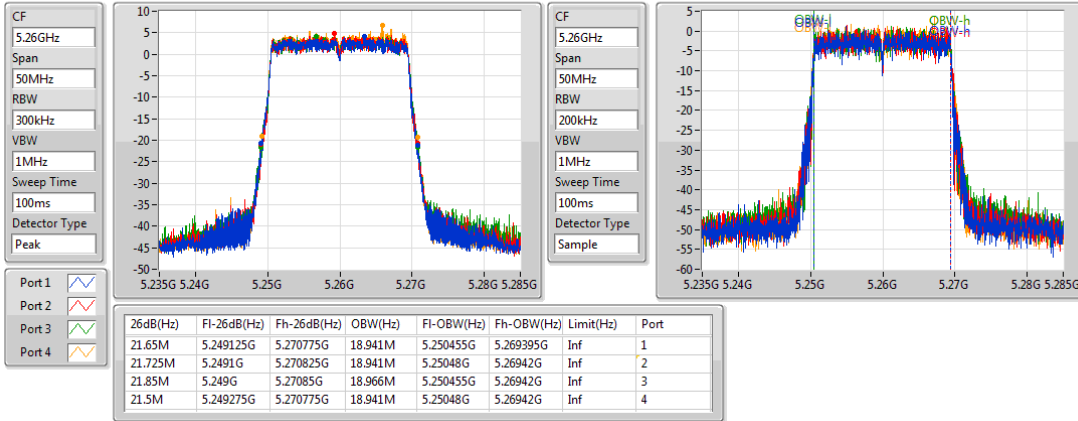
Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)	Port 3-N dB (Hz)	Port 3-OBW (Hz)	Port 4-N dB (Hz)	Port 4-OBW (Hz)
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5260MHz	Pass	Inf	21.65M	18.941M	21.725M	18.941M	21.85M	18.966M	21.5M	18.941M
5300MHz	Pass	Inf	21.75M	18.966M	21.7M	18.991M	21.775M	18.941M	21.4M	18.941M
5320MHz	Pass	Inf	21.875M	18.966M	21.65M	18.991M	21.75M	18.941M	21.375M	18.966M
5500MHz	Pass	Inf	21.7M	18.941M	21.65M	18.966M	21.775M	18.991M	21.35M	18.991M
5580MHz	Pass	Inf	21.725M	18.941M	21.675M	18.966M	21.925M	18.941M	21.4M	18.941M
5700MHz	Pass	Inf	21.65M	18.966M	21.525M	19.015M	21.85M	18.966M	21.55M	18.916M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	15.81M	14.498M	15.825M	14.498M	15.9M	14.483M	15.72M	14.483M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	4.44M	4.538M	4.46M	4.518M	4.46M	4.518M	4.48M	4.498M
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5270MHz	Pass	Inf	39.9M	37.531M	40.1M	37.581M	40.05M	37.531M	39.95M	37.481M
5310MHz	Pass	Inf	40.15M	37.531M	40.1M	37.531M	40M	37.581M	40.2M	37.531M
5510MHz	Pass	Inf	39.95M	37.481M	39.95M	37.531M	40.1M	37.531M	39.95M	37.481M
5550MHz	Pass	Inf	39.95M	37.531M	40.1M	37.531M	39.95M	37.481M	40.1M	37.481M
5670MHz	Pass	Inf	40.1M	37.531M	40.05M	37.581M	40M	37.481M	40.1M	37.581M
5710MHz Straddle 5.47-5.725GHz	Pass	Inf	35.035M	33.688M	35.07M	33.723M	35.07M	33.758M	35.07M	33.723M
5710MHz Straddle 5.725-5.85GHz	Pass	500k	3.82M	3.978M	3.74M	4.018M	3.78M	4.018M	3.86M	3.998M
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5290MHz	Pass	Inf	81.6M	76.862M	81.5M	76.962M	81.4M	77.061M	82.2M	77.161M
5530MHz	Pass	Inf	81.7M	77.261M	81.4M	77.161M	81M	76.962M	82.1M	76.762M
5610MHz	Pass	Inf	81.6M	77.261M	81.6M	77.061M	81.6M	77.061M	82M	77.161M
5690MHz Straddle 5.47-5.725GHz	Pass	Inf	75.75M	73.238M	75.6M	73.388M	75.525M	73.088M	76.05M	73.313M
5690MHz Straddle 5.725-5.85GHz	Pass	500k	3.88M	3.998M	3.66M	4.038M	3.72M	4.038M	3.64M	4.018M
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	Inf	80.8M	77.081M	81.2M	77.241M	80.8M	77.321M	80.96M	77.001M
5250MHz Straddle 5.25-5.35GHz	Pass	Inf	81.44M	77.081M	81.36M	76.922M	80.96M	77.001M	81.6M	77.001M
5570MHz	Pass	Inf	165.2M	155.522M	165.4M	155.122M	164.8M	155.122M	164M	155.522M

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

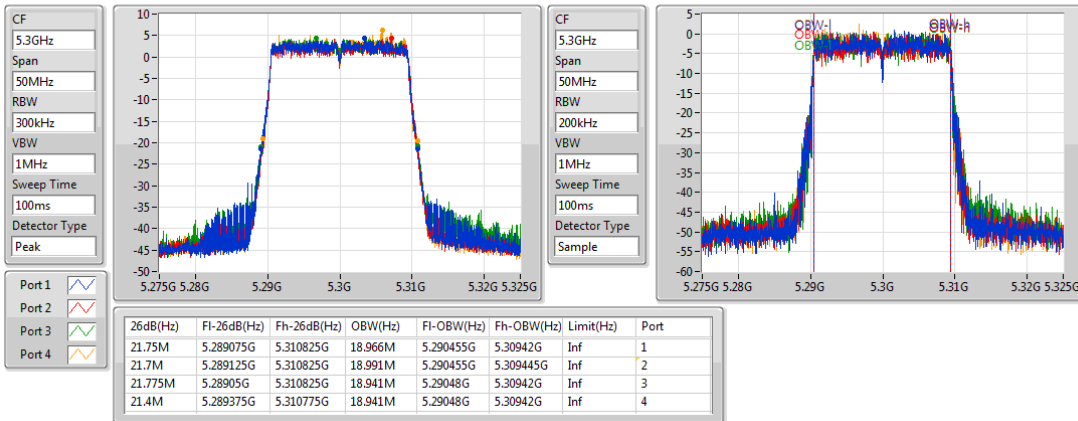
Port X-OBW = Port X 99% occupied bandwidth;

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

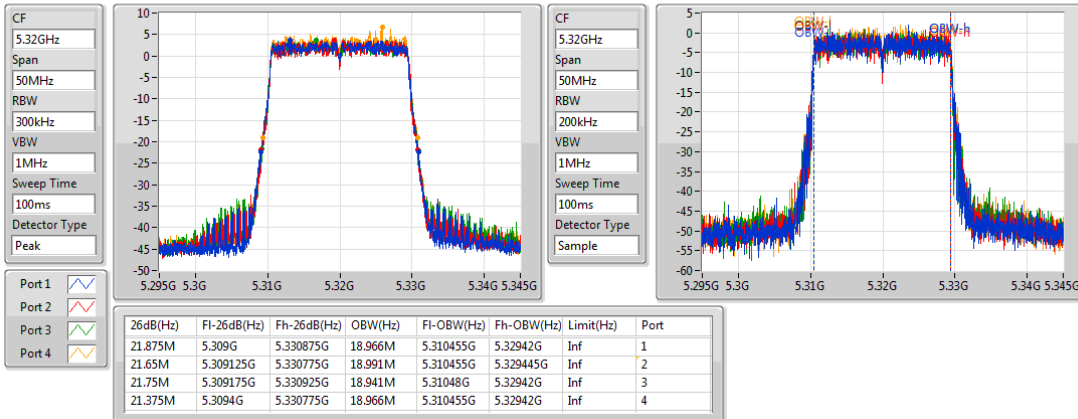
15/11/2018


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

15/11/2018

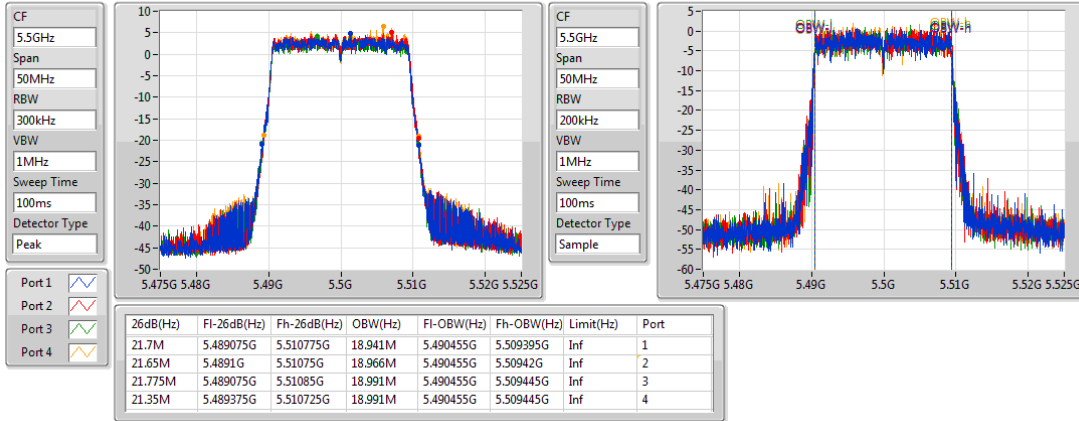

802.11ax HEW20-BF_Nss1,(MCS0)_4TX
EBW
5320MHz

15/11/2018

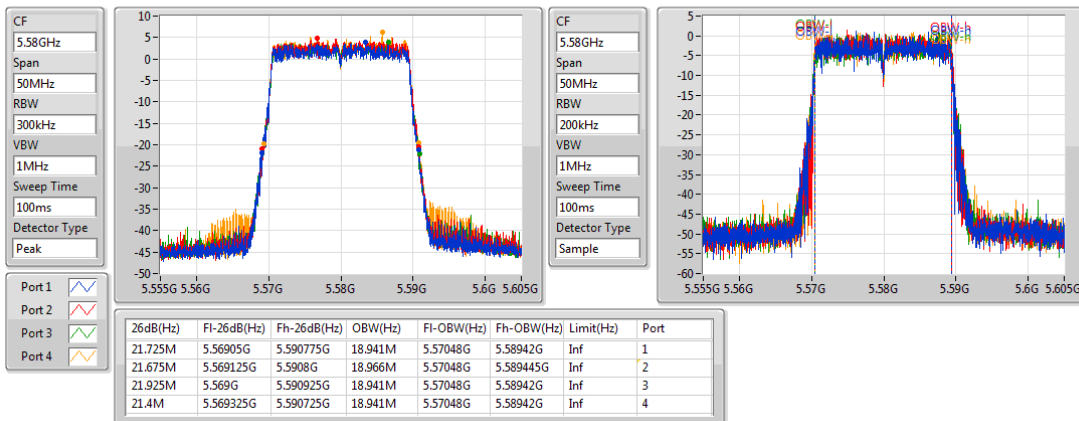


802.11ax HEW20-BF_Nss1,(MCS0)_4TX
EBW
5500MHz

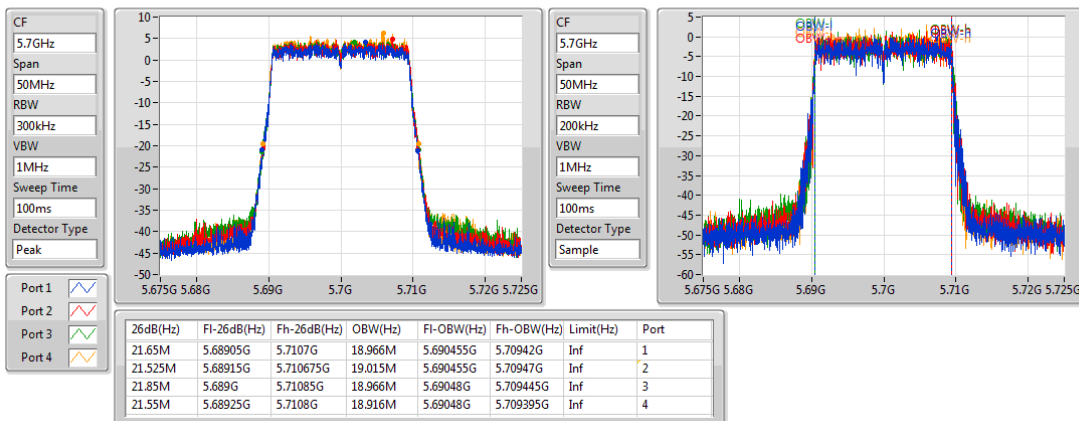
15/11/2018


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

15/11/2018

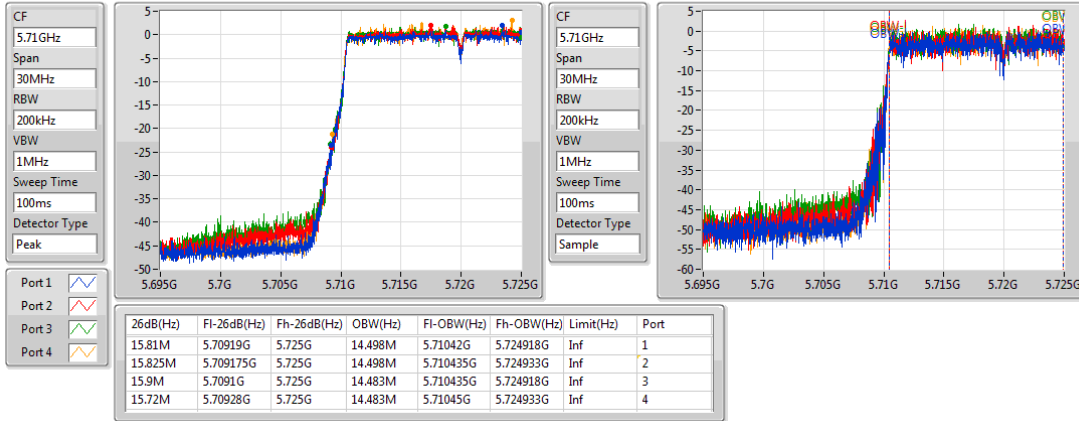

802.11ax HEW20-BF_Nss1,(MCS0)_4TX
EBW
5700MHz

15/11/2018

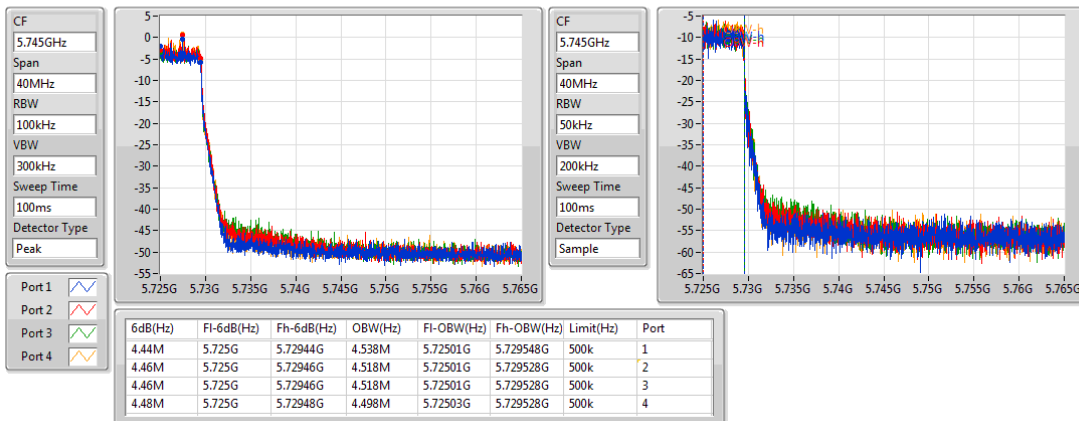


802.11ax HEW20-BF_Nss1,(MCS0)_4TX
EBW
5720MHz Straddle 5.47-5.725GHz

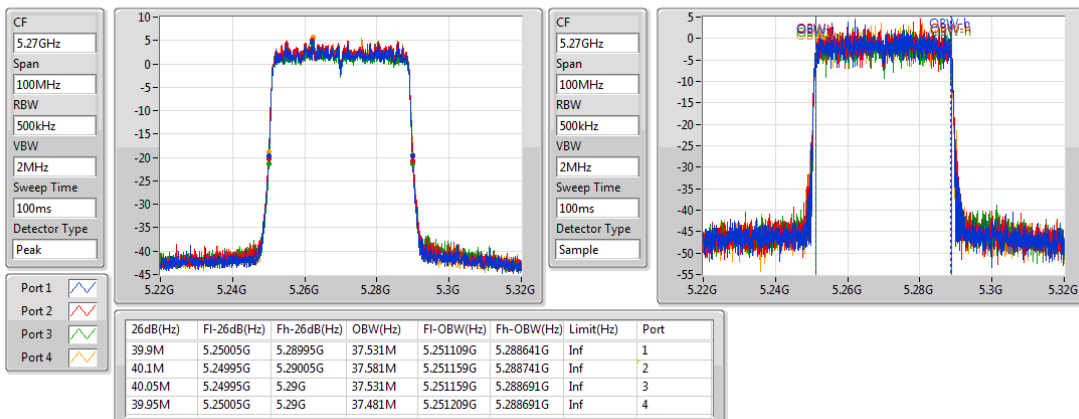
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802.11ax HEW20-BF_Nss1,(MCS0)_4TX
EBW
5720MHz Straddle 5.725-5.85GHz

15/11/2018

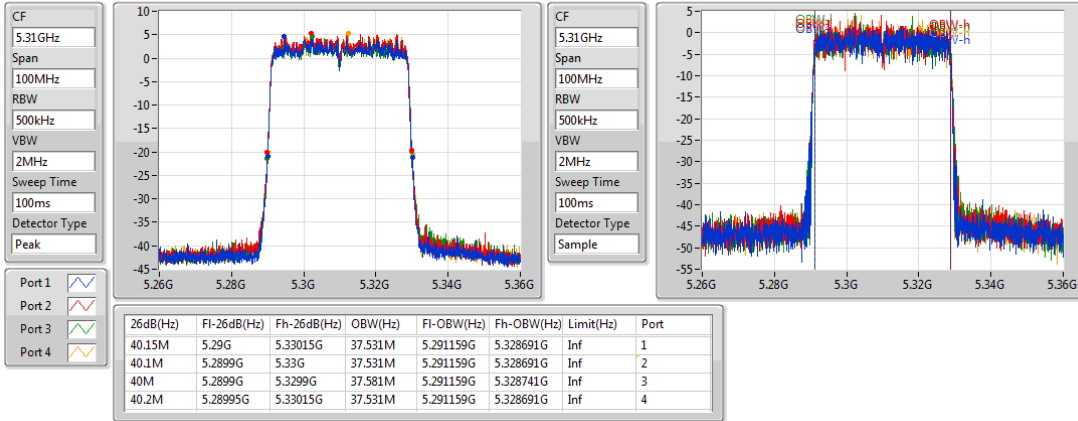

802.11ax HEW40-BF_Nss1,(MCS0)_4TX
EBW
5270MHz

15/11/2018

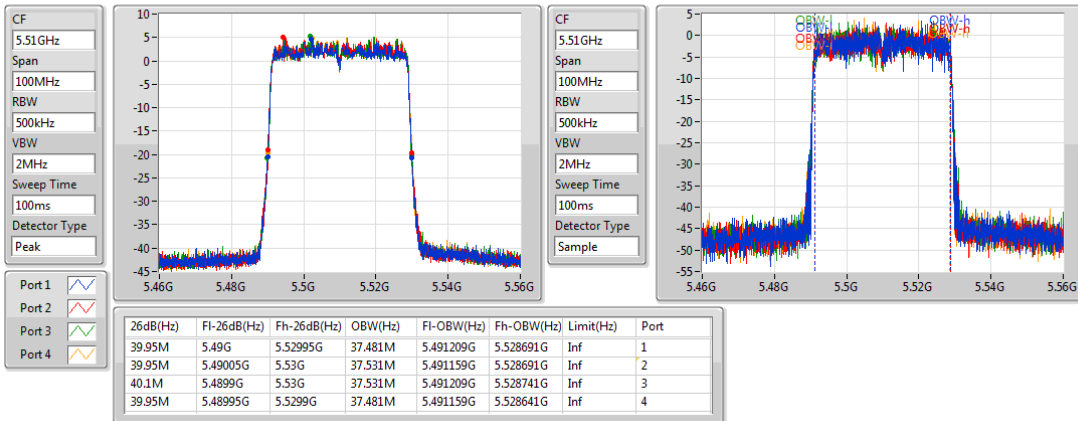


802.11ax HEW40-BF_Nss1,(MCS0)_4TX
EBW
5310MHz

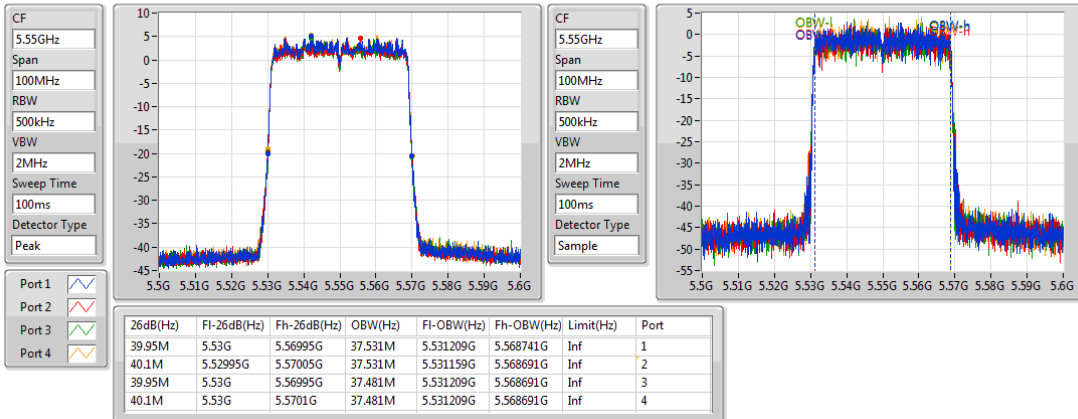
15/11/2018


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

15/11/2018

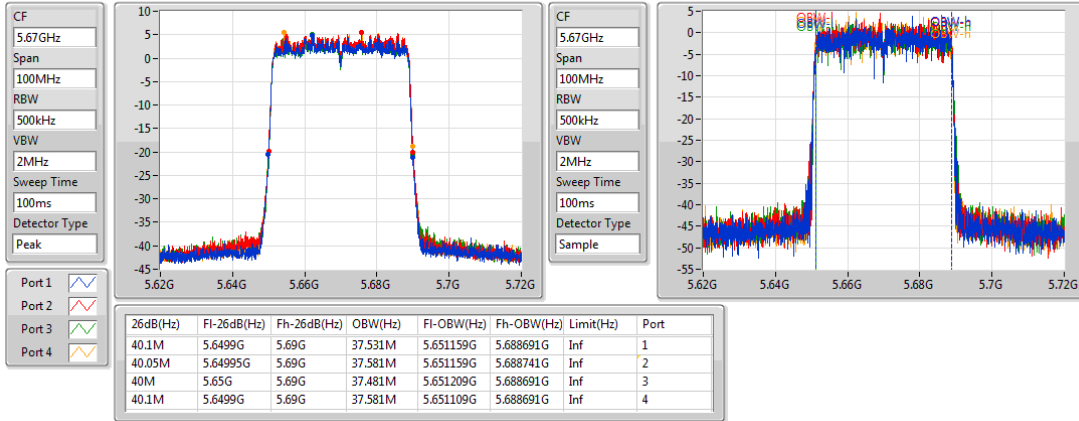

802.11ax HEW40-BF_Nss1,(MCS0)_4TX
EBW
5550MHz

15/11/2018

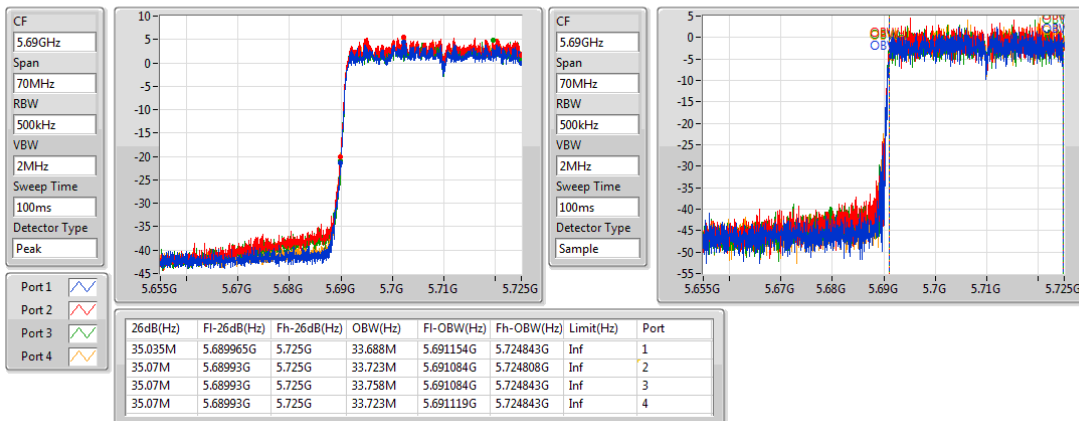


802.11ax HEW40-BF_Nss1,(MCS0)_4TX
EBW
5670MHz

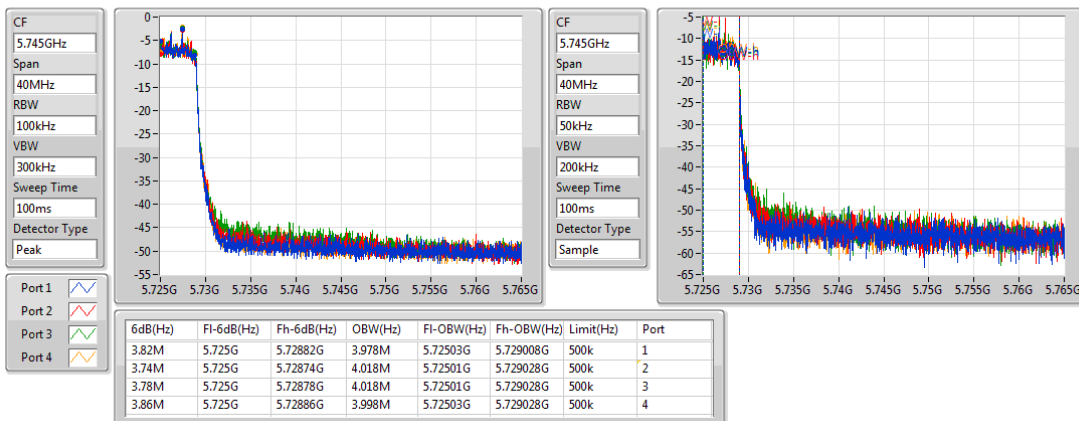
15/11/2018


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

15/11/2018

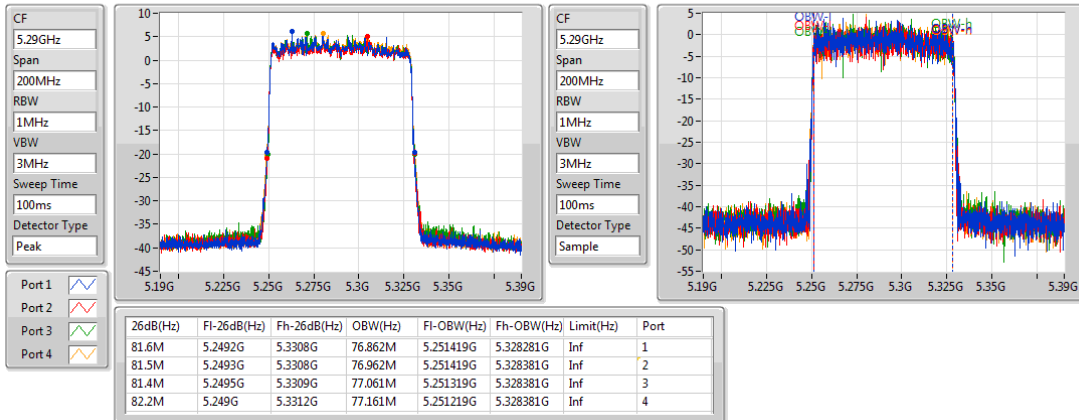

802.11ax HEW40-BF_Nss1,(MCS0)_4TX
EBW
5710MHz Straddle 5.725-5.85GHz

15/11/2018

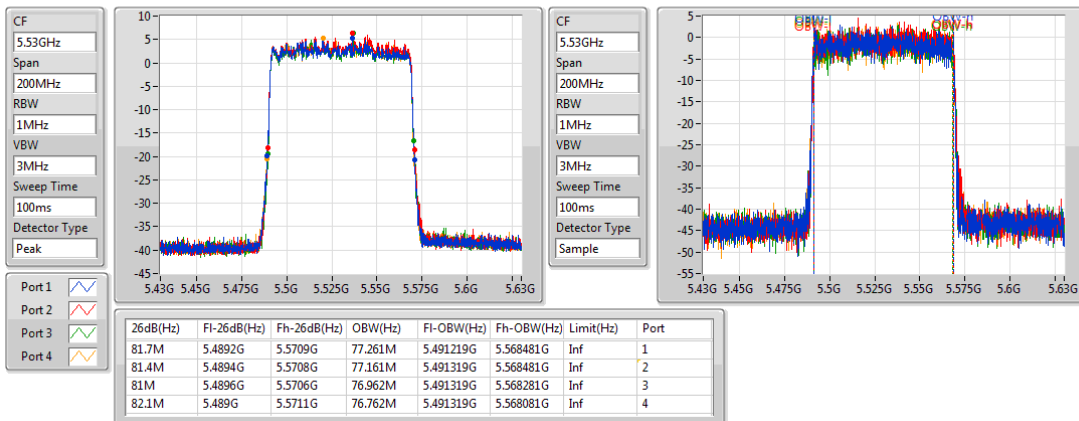


802.11ax HEW80-BF_Nss1,(MCS0)_4TX
EBW
5290MHz

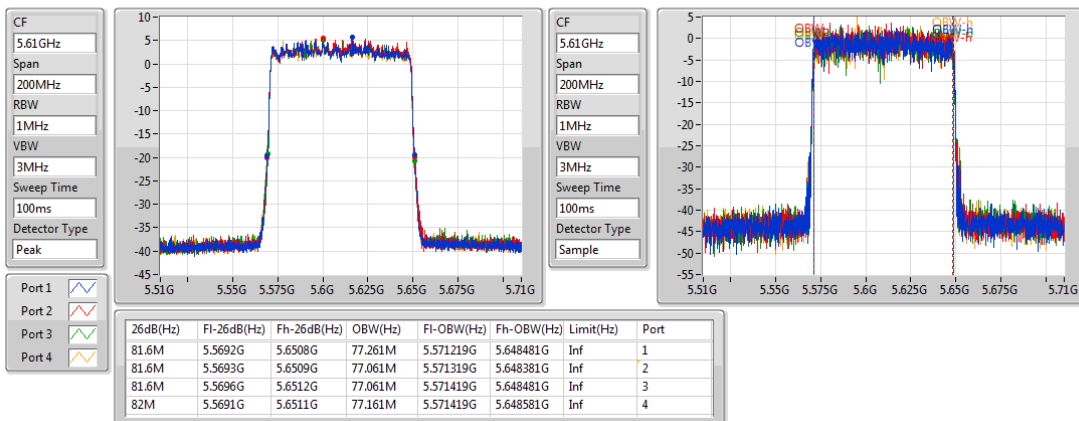
15/11/2018


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

15/11/2018

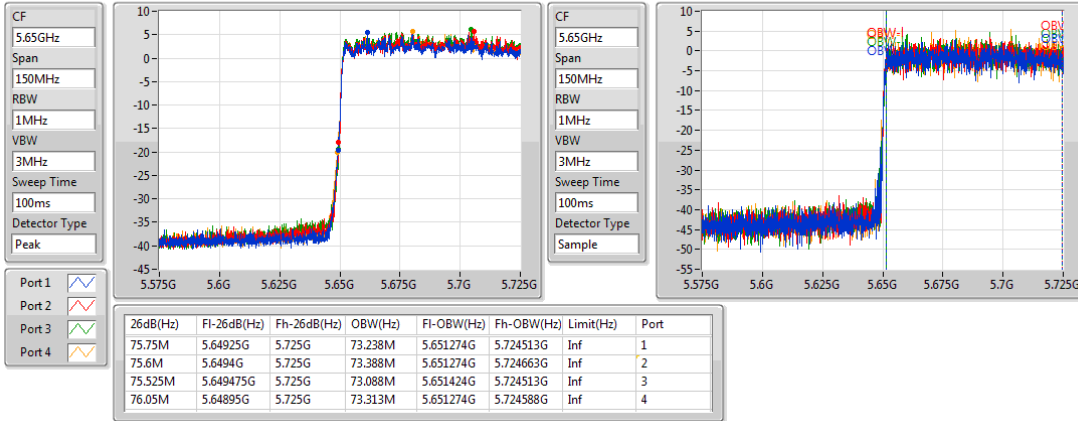

802.11ax HEW80-BF_Nss1,(MCS0)_4TX
EBW
5610MHz

15/11/2018

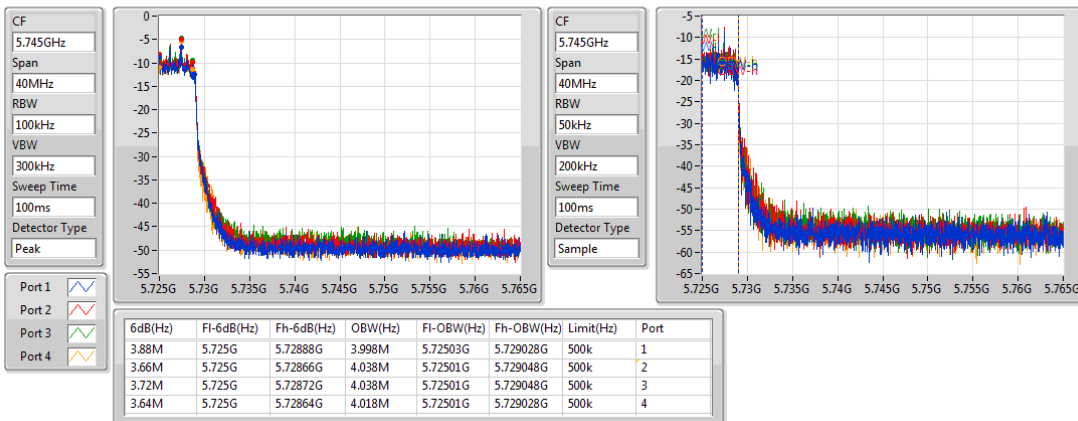


802.11ax HEW80-BF_Nss1,(MCS0)_4TX
EBW
5690MHz Straddle 5.47-5.725GHz

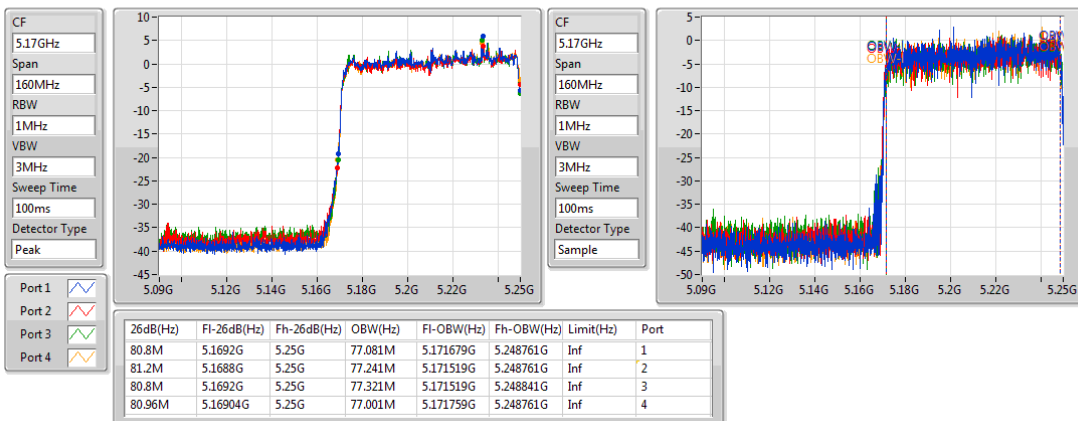
15/11/2018


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

15/11/2018

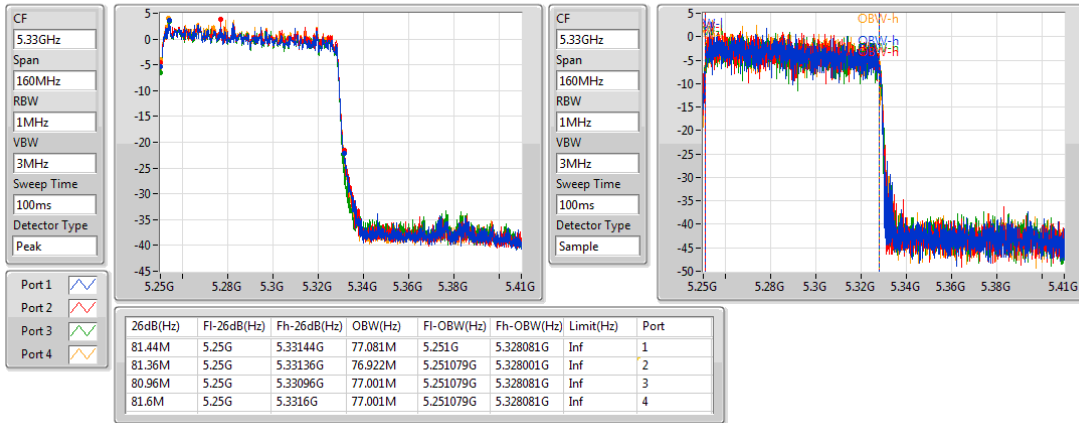

802.11ax HEW160-BF_Nss1,(MCS0)_4TX
EBW
5250MHz Straddle 5.15-5.25GHz

15/11/2018

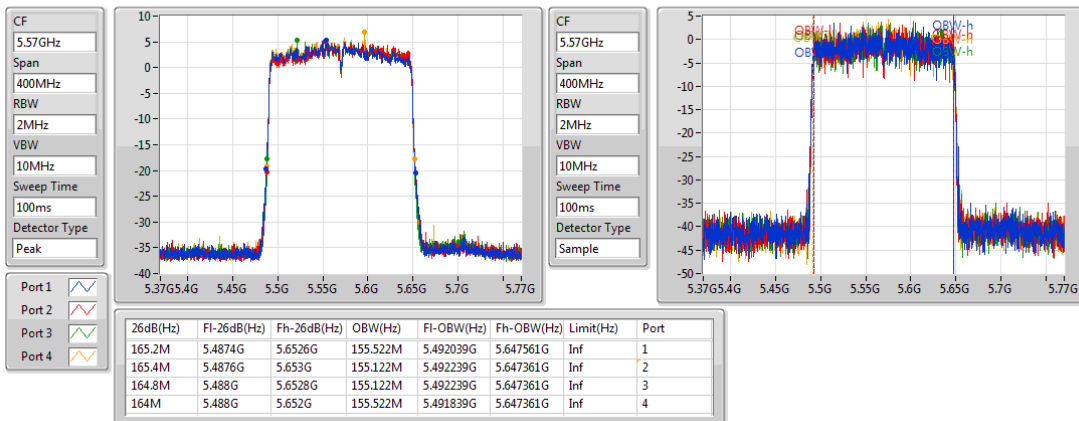


802.11ax HEW160-BF_Nss1,(MCS0)_4TX
EBW
5250MHz Straddle 5.25-5.35GHz

15/11/2018


802.11ax HEW160-BF_Nss1,(MCS0)_4TX
EBW
5570MHz

15/11/2018



Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.15-5.25GHz	-	-	-	-	-
802.11ax HEW160_Nss4,(MCS0)_4TX	81.6M	77.241M	77M2D1D	80.72M	77.081M
5.25-5.35GHz	-	-	-	-	-
802.11ax HEW20_Nss4,(MCS0)_4TX	21.925M	18.991M	19M0D1D	21.375M	18.941M
802.11ax HEW40_Nss4,(MCS0)_4TX	40.35M	37.631M	37M6D1D	40.05M	37.481M
802.11ax HEW80_Nss4,(MCS0)_4TX	81.9M	77.261M	77M3D1D	81.5M	76.862M
802.11ax HEW160_Nss4,(MCS0)_4TX	82.16M	77.241M	77M2D1D	81.04M	77.001M
5.47-5.725GHz	-	-	-	-	-
802.11ax HEW20_Nss4,(MCS0)_4TX	21.95M	18.991M	19M0D1D	15.675M	14.498M
802.11ax HEW40_Nss4,(MCS0)_4TX	40.35M	37.681M	37M7D1D	35.105M	33.653M
802.11ax HEW80_Nss4,(MCS0)_4TX	82.1M	77.161M	77M2D1D	75.525M	73.163M
802.11ax HEW160_Nss4,(MCS0)_4TX	165.2M	155.122M	155MD1D	163.8M	154.723M
5.725-5.85GHz	-	-	-	-	-
802.11ax HEW20_Nss4,(MCS0)_4TX	4.46M	4.558M	4M56D1D	4.34M	4.518M
802.11ax HEW40_Nss4,(MCS0)_4TX	3.88M	4.038M	4M04D1D	3.7M	3.998M
802.11ax HEW80_Nss4,(MCS0)_4TX	3.92M	4.098M	4M10D1D	3.26M	3.998M

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

Max-OBW = Maximum 99% occupied bandwidth;

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

Min-OBW = Minimum 99% occupied bandwidth;

Result

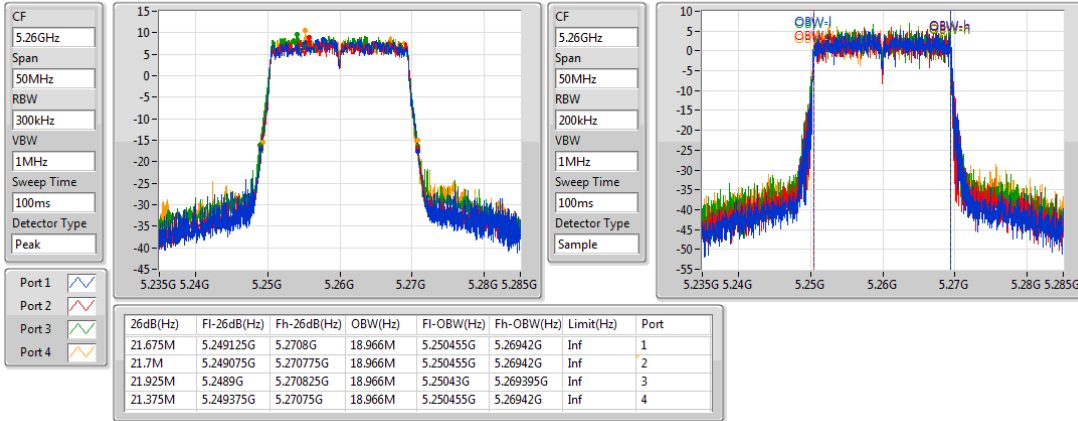
Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)	Port 3-N dB (Hz)	Port 3-OBW (Hz)	Port 4-N dB (Hz)	Port 4-OBW (Hz)
802.11ax HEW20_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5260MHz	Pass	Inf	21.675M	18.966M	21.7M	18.966M	21.925M	18.966M	21.375M	18.966M
5300MHz	Pass	Inf	21.775M	18.941M	21.725M	18.966M	21.8M	18.966M	21.375M	18.941M
5320MHz	Pass	Inf	21.7M	18.966M	21.75M	18.991M	21.85M	18.966M	21.525M	18.941M
5500MHz	Pass	Inf	21.625M	18.966M	21.75M	18.941M	21.775M	18.941M	21.45M	18.941M
5580MHz	Pass	Inf	21.7M	18.941M	21.7M	18.941M	21.875M	18.941M	21.45M	18.991M
5700MHz	Pass	Inf	21.65M	18.941M	21.825M	18.941M	21.95M	18.941M	21.5M	18.916M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	15.75M	14.498M	15.825M	14.513M	15.99M	14.543M	15.675M	14.558M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	4.4M	4.538M	4.46M	4.558M	4.34M	4.538M	4.44M	4.518M
802.11ax HEW40_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5270MHz	Pass	Inf	40.15M	37.531M	40.05M	37.631M	40.2M	37.531M	40.2M	37.631M
5310MHz	Pass	Inf	40.35M	37.531M	40.2M	37.531M	40.15M	37.481M	40.2M	37.481M
5510MHz	Pass	Inf	40.25M	37.581M	40.05M	37.481M	40.1M	37.531M	40.1M	37.481M
5550MHz	Pass	Inf	40.35M	37.681M	40M	37.681M	40M	37.581M	40.25M	37.581M
5670MHz	Pass	Inf	40.1M	37.481M	39.85M	37.581M	40.05M	37.531M	40.2M	37.631M
5710MHz Straddle 5.47-5.725GHz	Pass	Inf	35.21M	33.723M	35.175M	33.758M	35.105M	33.653M	35.175M	33.723M
5710MHz Straddle 5.725-5.85GHz	Pass	500k	3.88M	3.998M	3.7M	3.998M	3.86M	4.018M	3.86M	4.038M
802.11ax HEW80_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5290MHz	Pass	Inf	81.5M	76.862M	81.8M	77.261M	81.7M	77.161M	81.9M	76.962M
5530MHz	Pass	Inf	81.5M	76.962M	81.8M	77.061M	81.9M	76.962M	82.1M	77.161M
5610MHz	Pass	Inf	81.3M	77.061M	82M	77.161M	81.9M	76.762M	81.9M	77.161M
5690MHz Straddle 5.47-5.725GHz	Pass	Inf	75.525M	73.238M	75.9M	73.238M	75.9M	73.238M	75.975M	73.163M
5690MHz Straddle 5.725-5.85GHz	Pass	500k	3.76M	3.998M	3.64M	4.018M	3.92M	4.018M	3.26M	4.098M
802.11ax HEW160_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	Inf	81.12M	77.161M	81.6M	77.081M	80.72M	77.241M	80.88M	77.081M
5250MHz Straddle 5.25-5.35GHz	Pass	Inf	81.52M	77.161M	81.76M	77.241M	81.04M	77.081M	82.16M	77.001M
5570MHz	Pass	Inf	165M	155.122M	164.6M	154.923M	163.8M	154.723M	165.2M	154.923M

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

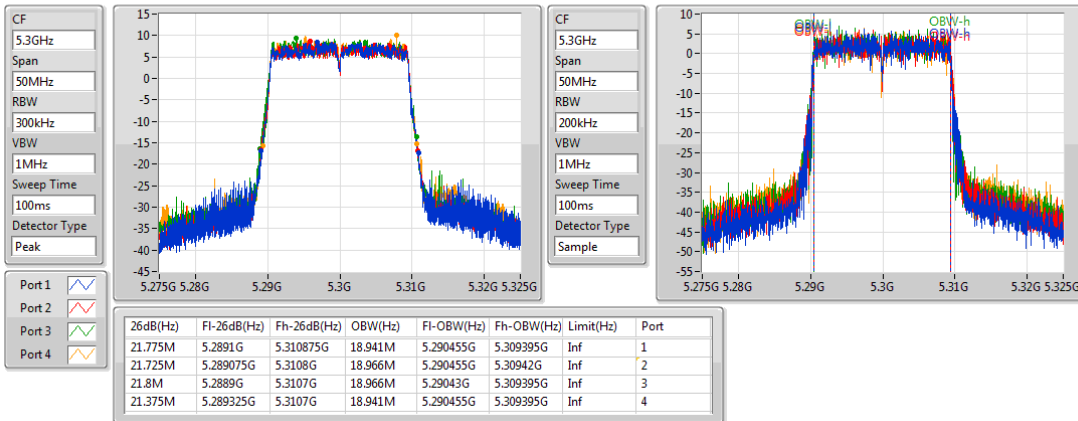
Port X-OBW = Port X 99% occupied bandwidth;

802.11ax HEW20_Nss4,(MCS0)_4TX
EBW
5260MHz

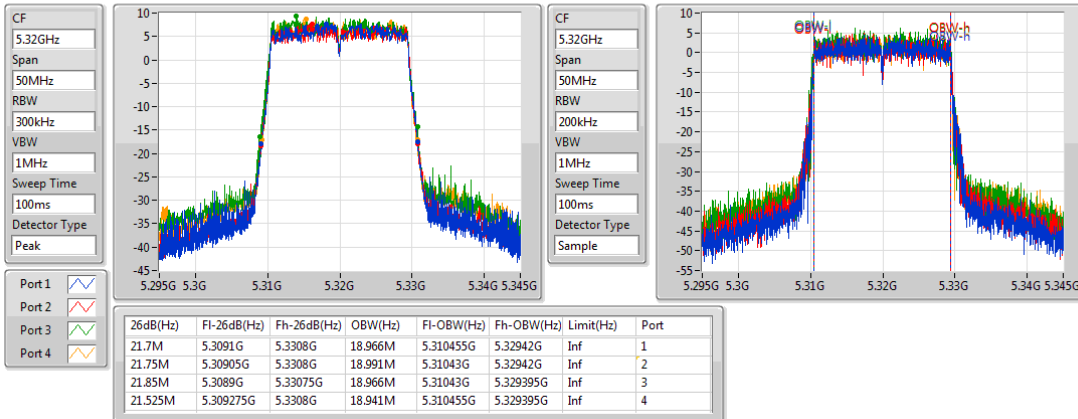
15/11/2018


802.11ax HEW20_Nss4,(MCS0)_4TX
EBW
5300MHz

15/11/2018

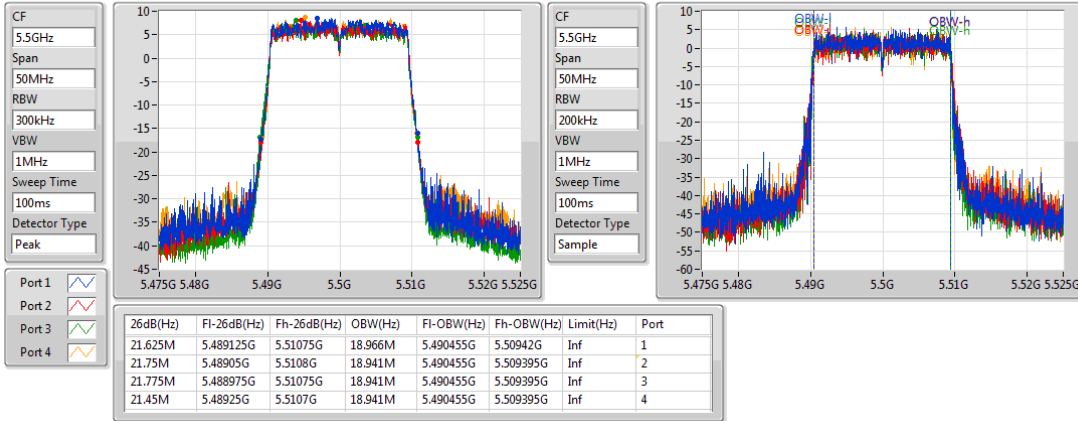

802.11ax HEW20_Nss4,(MCS0)_4TX
EBW
5320MHz

15/11/2018

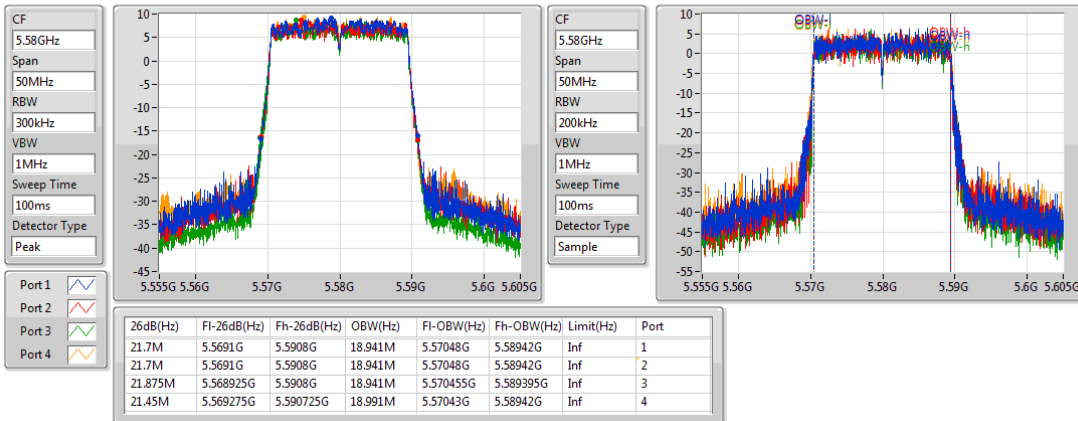


802.11ax HEW20_Nss4,(MCS0)_4TX
EBW
5500MHz

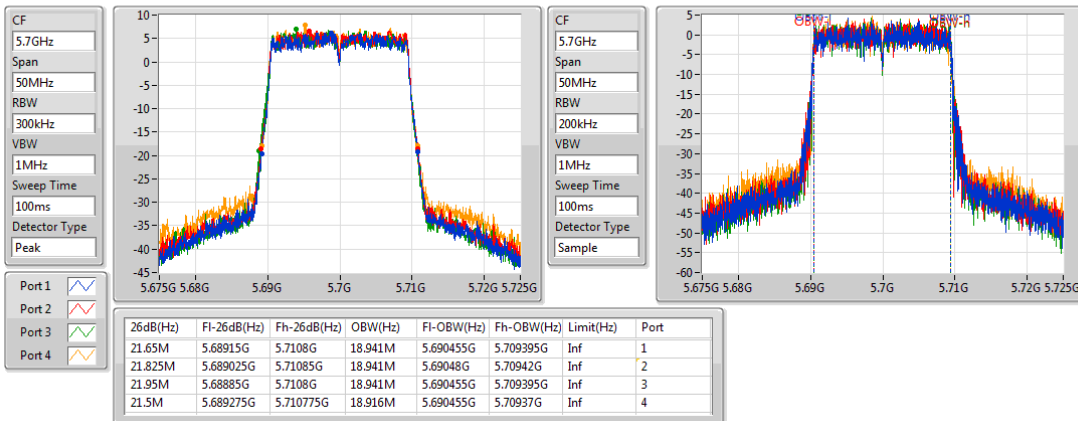
15/11/2018


802.11ax HEW20_Nss4,(MCS0)_4TX
EBW
5580MHz

15/11/2018

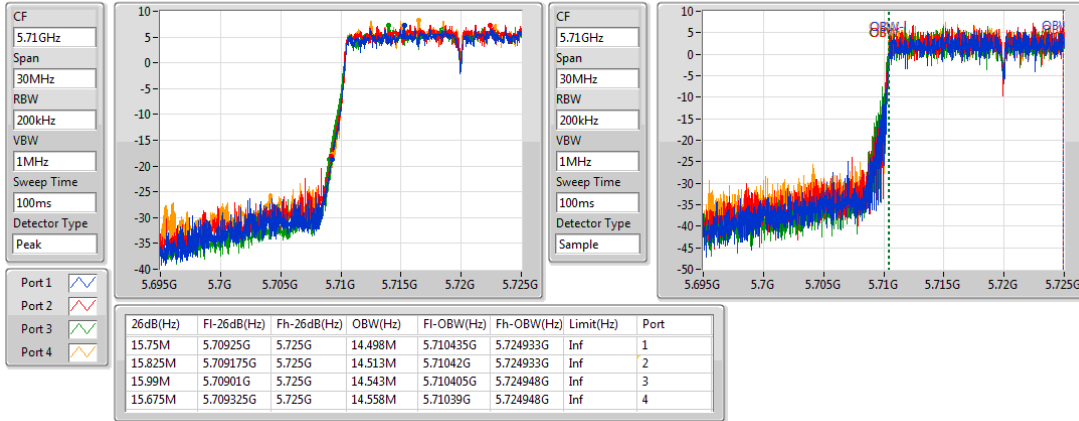

802.11ax HEW20_Nss4,(MCS0)_4TX
EBW
5700MHz

15/11/2018

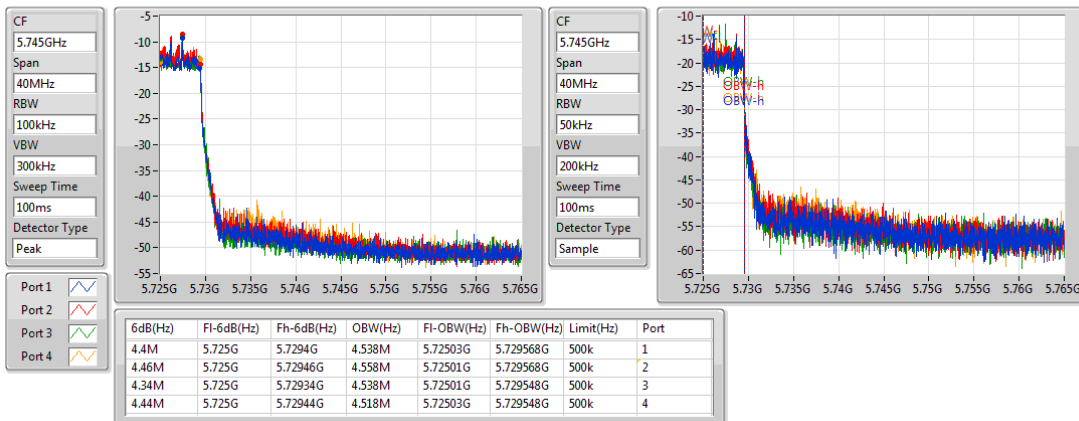


802.11ax HEW20_Nss4,(MCS0)_4TX
EBW
5720MHz Straddle 5.47-5.725GHz

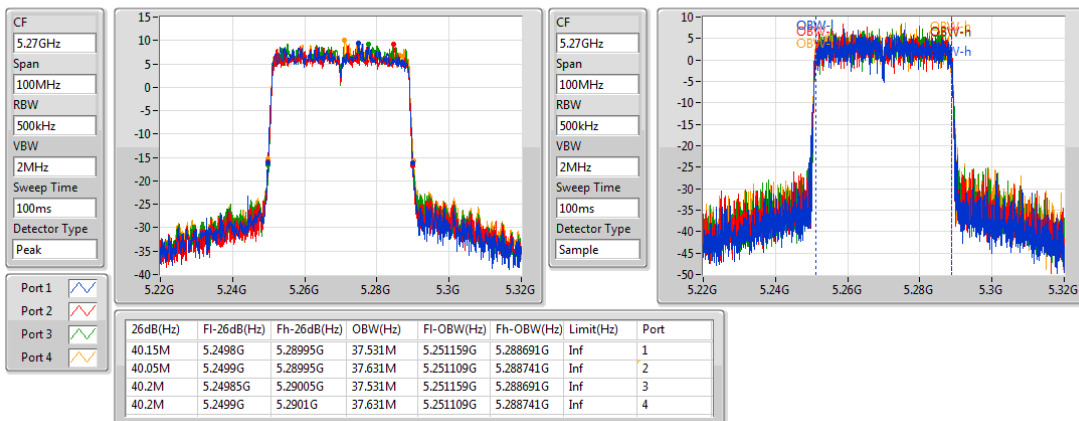
15/11/2018


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

15/11/2018

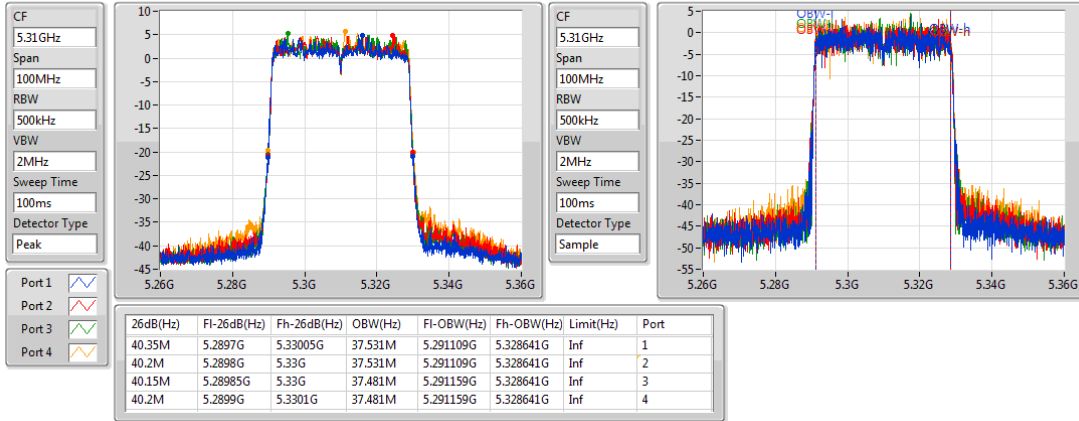

802.11ax HEW40_Nss4,(MCS0)_4TX
EBW
5270MHz

15/11/2018

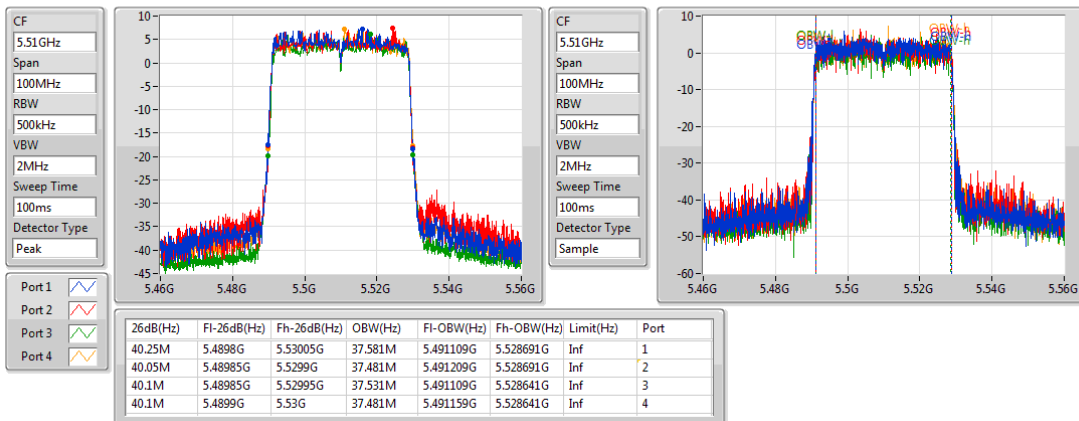


802.11ax HEW40_Nss4,(MCS0)_4TX
EBW
5310MHz

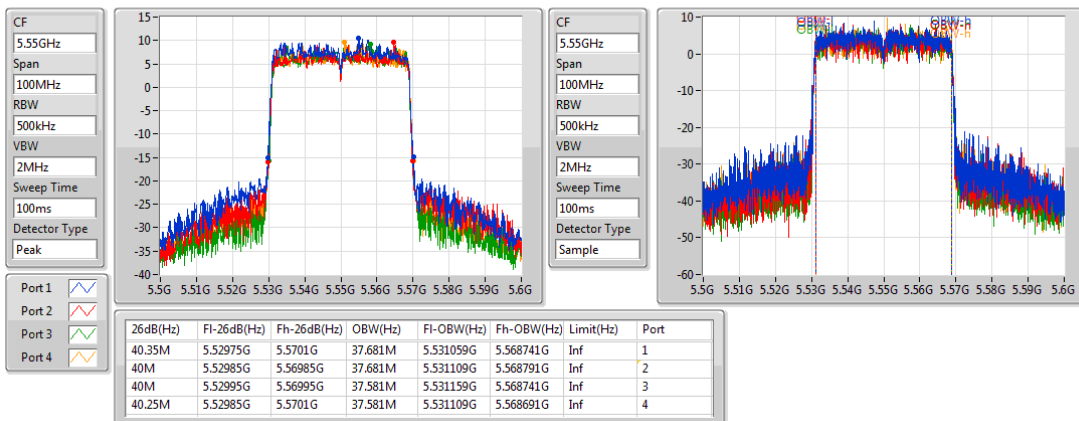
15/11/2018


802.11ax HEW40_Nss4,(MCS0)_4TX
EBW
5510MHz

15/11/2018

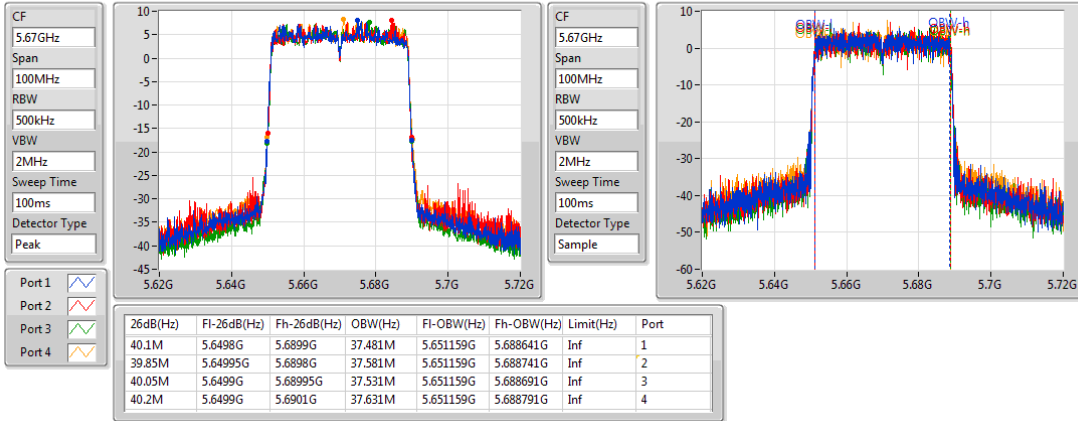

802.11ax HEW40_Nss4,(MCS0)_4TX
EBW
5550MHz

15/11/2018

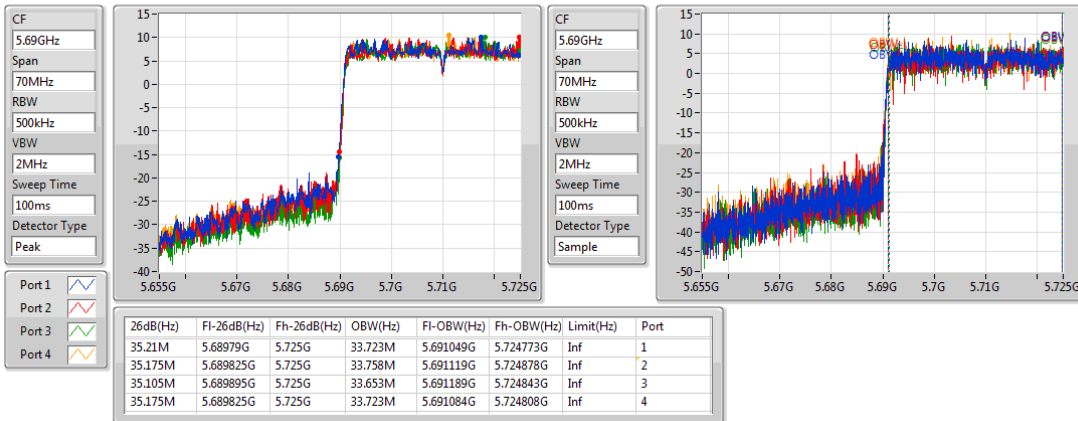


802.11ax HEW40_Nss4,(MCS0)_4TX
EBW
5670MHz

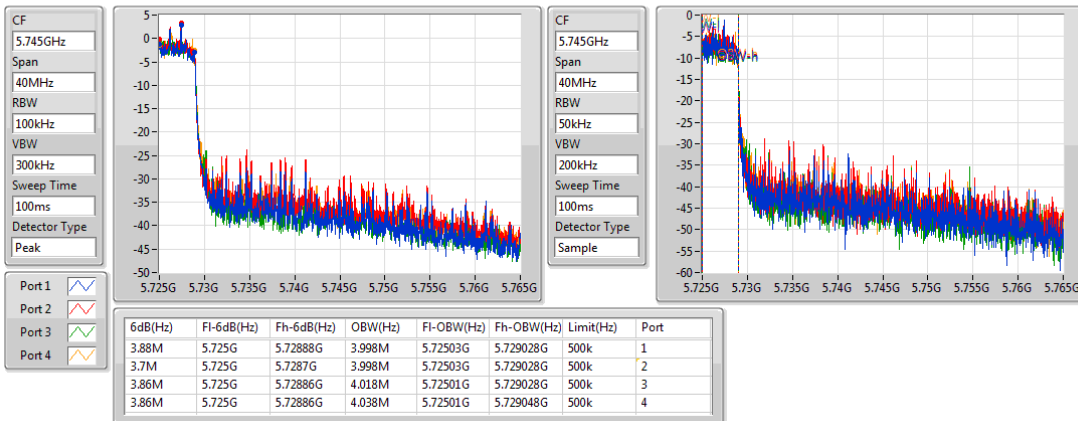
15/11/2018


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

15/11/2018

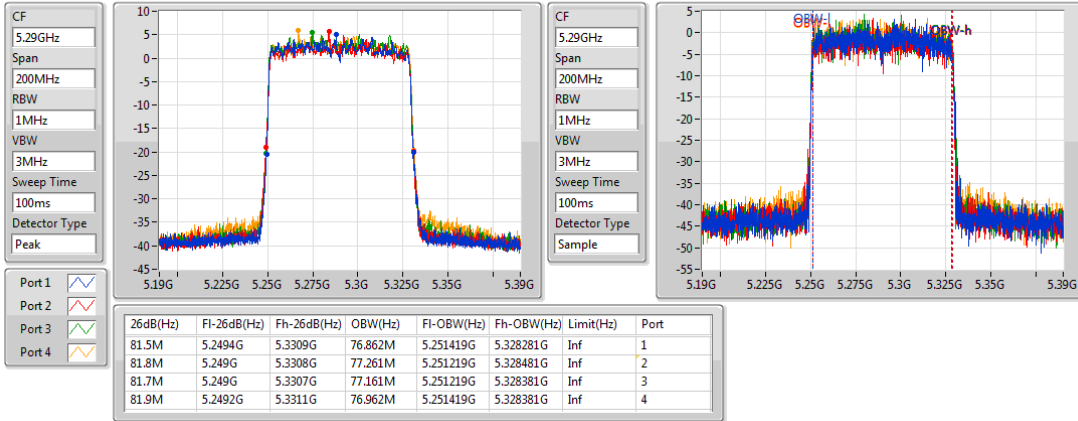

802.11ax HEW40_Nss4,(MCS0)_4TX
EBW
5710MHz Straddle 5.725-5.85GHz

15/11/2018

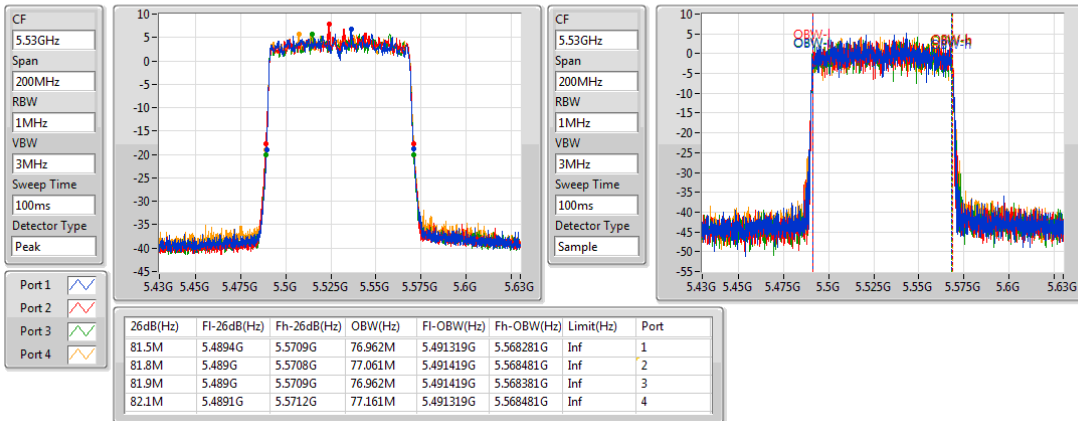


802.11ax HEW80_Nss4,(MCS0)_4TX
EBW
5290MHz

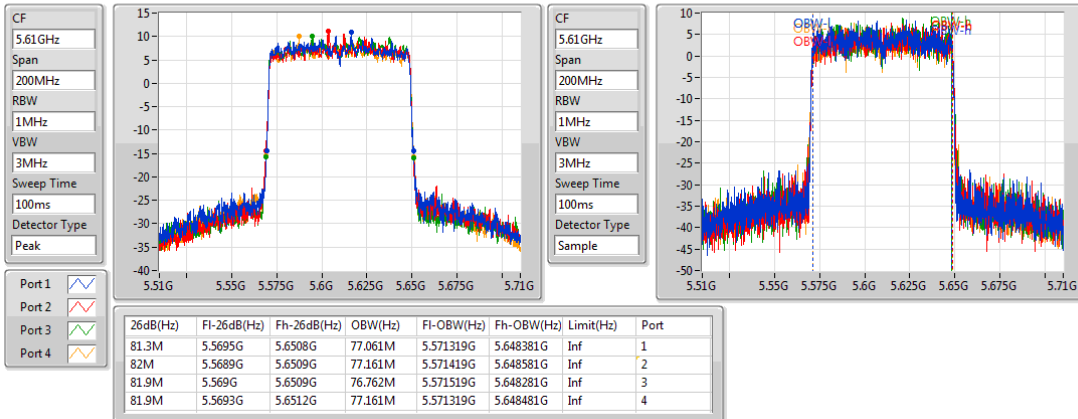
15/11/2018


802.11ax HEW80_Nss4,(MCS0)_4TX
EBW
5530MHz

15/11/2018

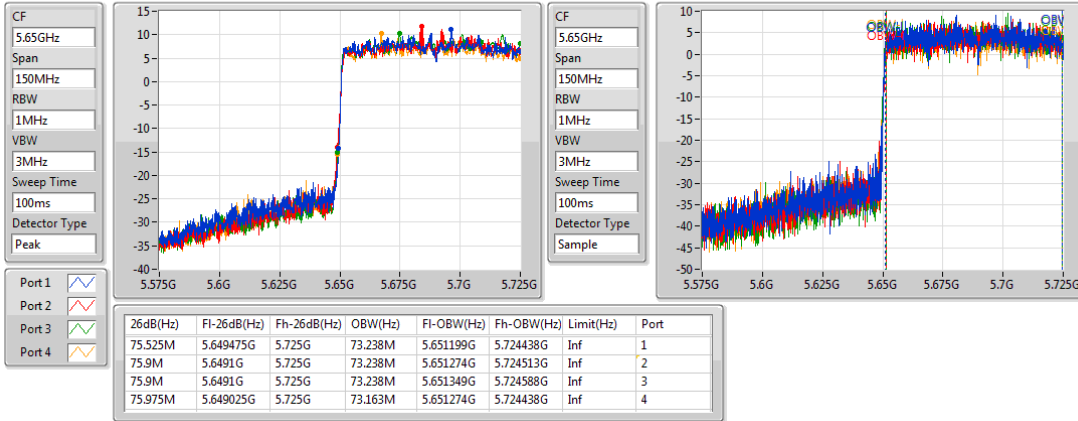

802.11ax HEW80_Nss4,(MCS0)_4TX
EBW
5610MHz

15/11/2018

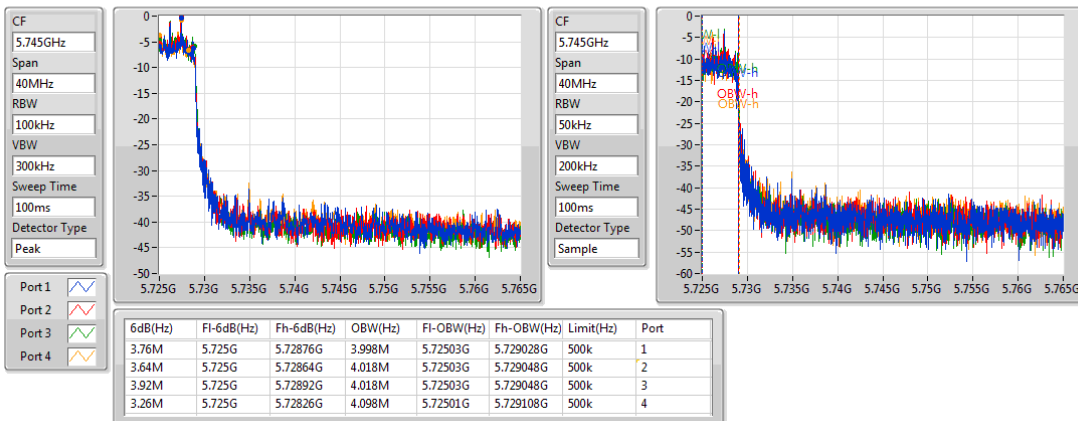


802.11ax HEW80_Nss4,(MCS0)_4TX
EBW
5690MHz Straddle 5.47-5.725GHz

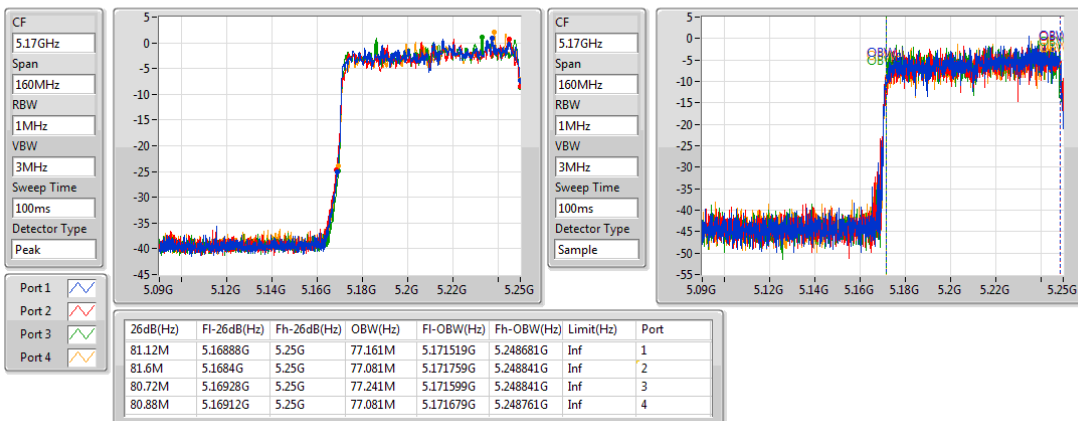
15/11/2018


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

15/11/2018

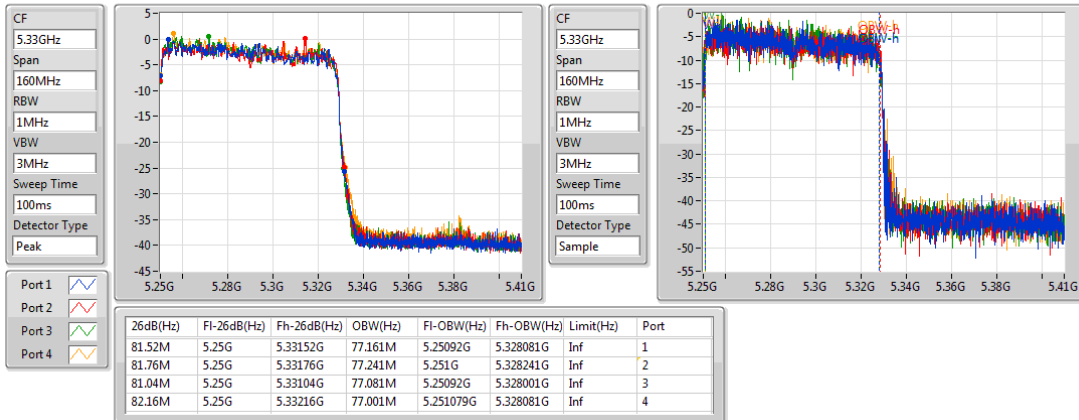

802.11ax HEW160_Nss4,(MCS0)_4TX
EBW
5250MHz Straddle 5.15-5.25GHz

15/11/2018

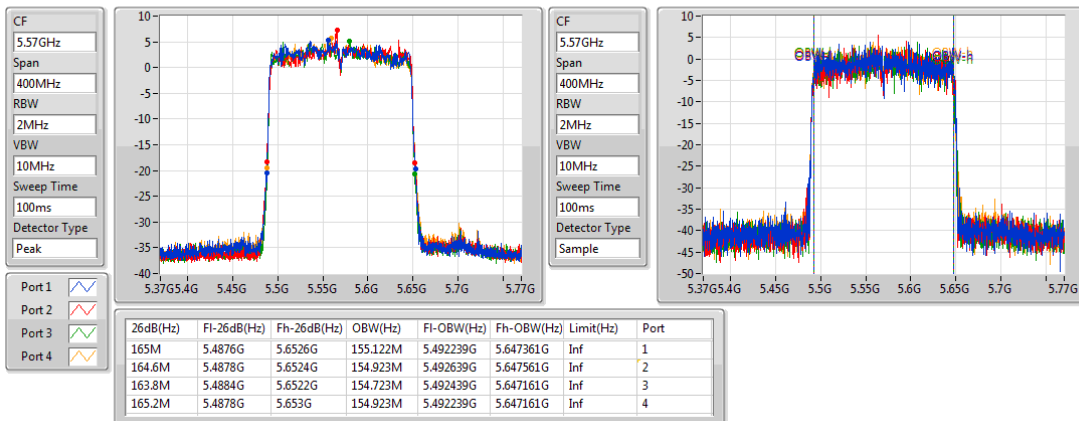


802.11ax HEW160_Nss4,(MCS0)_4TX
EBW
5250MHz Straddle 5.25-5.35GHz

15/11/2018


802.11ax HEW160_Nss4,(MCS0)_4TX
EBW
5570MHz

15/11/2018



**Summary**

Mode	Total Power (dBm)	Total Power (W)
5.25-5.35GHz	-	-
802.11a_Nss1,(6Mbps)_1TX	23.89	0.24491
5.47-5.725GHz	-	-
802.11a_Nss1,(6Mbps)_1TX	23.93	0.24717
5.725-5.85GHz	-	-
802.11a_Nss1,(6Mbps)_1TX	16.50	0.04467

Result

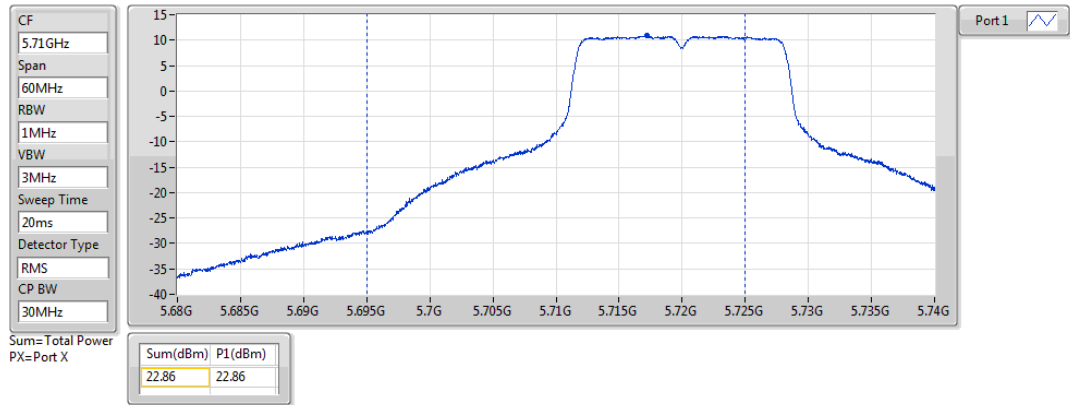
Mode	Result	DG (dBi)	Port 1 (dBm)	Total Power (dBm)	Power Limit (dBm)	Conducted setting
802.11a_Nss1,(6Mbps)_1TX	-	-	-	-	-	
5260MHz	Pass	5.29	23.87	23.87	23.98	24.25
5300MHz	Pass	5.29	23.89	23.89	23.98	24.25
5320MHz	Pass	5.29	20.17	20.17	23.98	20
5500MHz	Pass	5.29	20.07	20.07	23.98	19
5580MHz	Pass	5.29	23.93	23.93	23.98	23.75
5700MHz	Pass	5.29	18.67	18.67	23.98	18.75
5720MHz Straddle 5.47-5.725GHz	Pass	5.29	22.86	22.86	23.98	24.25
5720MHz Straddle 5.725-5.85GHz	Pass	5.29	16.50	16.50	30.00	24.25

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

Note : **Conducted setting** = **Pass** conducted setting division 4.

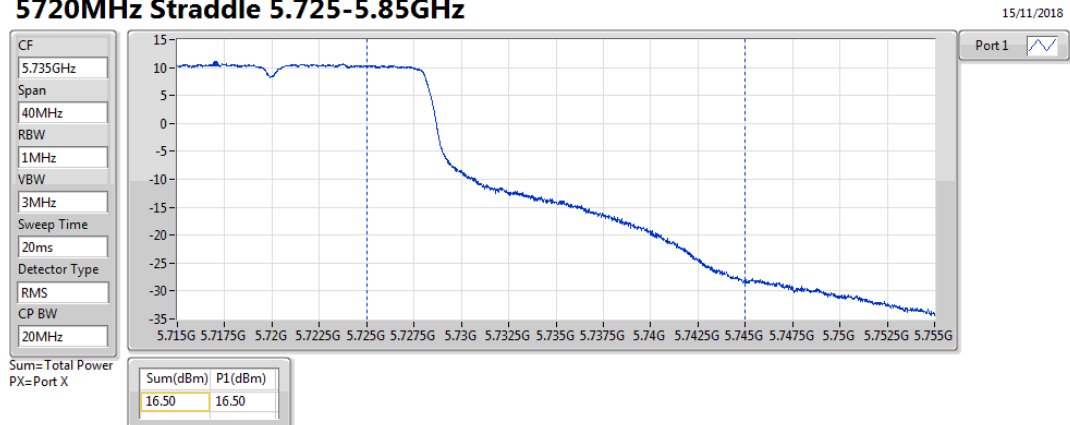
802.11a_Nss1,(6Mbps)_1TX 5720MHz Straddle 5.47-5.725GHz

AV Power



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

AV Power



**Summary**

Mode	Total Power (dBm)	Total Power (W)
5.15-5.25GHz	-	-
802.11ax HEW160_Nss1,(MCS0)_1TX	15.11	0.03243
5.25-5.35GHz	-	-
802.11ax HEW20_Nss1,(MCS0)_1TX	23.96	0.24889
802.11ax HEW40_Nss1,(MCS0)_1TX	22.91	0.19543
802.11ax HEW80_Nss1,(MCS0)_1TX	18.26	0.06699
802.11ax HEW160_Nss1,(MCS0)_1TX	15.19	0.03304
5.47-5.725GHz	-	-
802.11ax HEW20_Nss1,(MCS0)_1TX	23.89	0.24491
802.11ax HEW40_Nss1,(MCS0)_1TX	23.47	0.22233
802.11ax HEW80_Nss1,(MCS0)_1TX	23.89	0.24491
802.11ax HEW160_Nss1,(MCS0)_1TX	17.57	0.05715
5.725-5.85GHz	-	-
802.11ax HEW20_Nss1,(MCS0)_1TX	17.00	0.05012
802.11ax HEW40_Nss1,(MCS0)_1TX	13.87	0.02438
802.11ax HEW80_Nss1,(MCS0)_1TX	10.22	0.01052

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Total Power (dBm)	Power Limit (dBm)	Conducted Setting
802.11ax HEW20_Nss1,(MCS0)_1TX	-	-	-	-	-	
5260MHz	Pass	5.29	23.96	23.96	23.98	24
5300MHz	Pass	5.29	23.90	23.90	23.98	24
5320MHz	Pass	5.29	20.05	20.05	23.98	19.75
5500MHz	Pass	5.29	19.51	19.51	23.98	18.25
5580MHz	Pass	5.29	23.89	23.89	23.98	23.25
5700MHz	Pass	5.29	18.71	18.71	23.98	18.75
5720MHz Straddle 5.47-5.725GHz	Pass	5.29	22.13	22.13	23.98	23.5
5720MHz Straddle 5.725-5.85GHz	Pass	5.29	17.00	17.00	30.00	23.5
802.11ax HEW40_Nss1,(MCS0)_1TX	-	-	-	-	-	
5270MHz	Pass	5.29	22.91	22.91	23.98	23.5
5310MHz	Pass	5.29	19.01	19.01	23.98	19
5510MHz	Pass	5.29	19.32	19.32	23.98	17.75
5550MHz	Pass	5.29	22.61	22.61	23.98	21.75
5670MHz	Pass	5.29	19.65	19.65	23.98	19.5
5710MHz Straddle 5.47-5.725GHz	Pass	5.29	23.47	23.47	23.98	24.5
5710MHz Straddle 5.725-5.85GHz	Pass	5.29	13.87	13.87	30.00	24.5
802.11ax HEW80_Nss1,(MCS0)_1TX	-	-	-	-	-	
5290MHz	Pass	5.29	18.26	18.26	23.98	18.25
5530MHz	Pass	5.29	18.00	18.00	23.98	17.25
5610MHz	Pass	5.29	21.09	21.09	23.98	20.25
5690MHz Straddle 5.47-5.725GHz	Pass	5.29	23.89	23.89	23.98	23.5
5690MHz Straddle 5.725-5.85GHz	Pass	5.29	10.22	10.22	30.00	23.5
802.11ax HEW160_Nss1,(MCS0)_1TX	-	-	-	-	-	
5250MHz Straddle 5.15-5.25GHz	Pass	5.29	15.11	15.11	30.00	18
5250MHz Straddle 5.25-5.35GHz	Pass	5.29	15.19	15.19	23.98	18
5570MHz	Pass	5.29	17.57	17.57	23.98	16.5

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

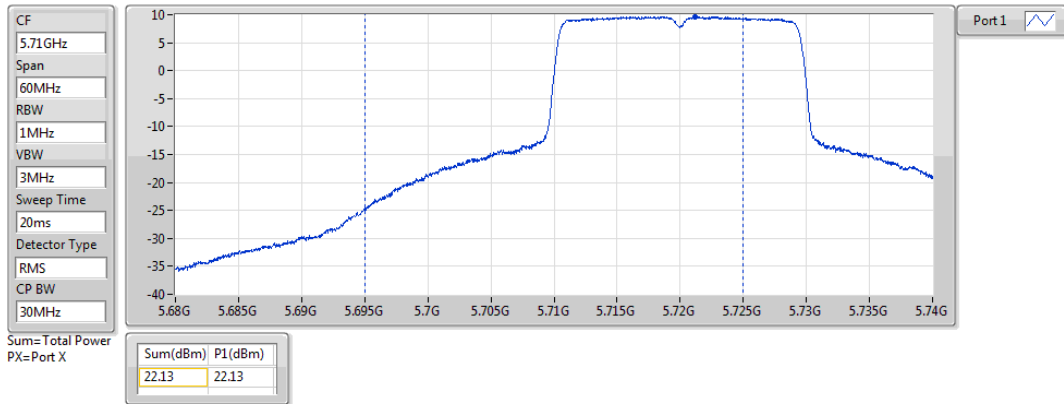
Note : Conducted setting = Pass conducted setting division 4.

802.11ax HEW20_Nss1,(MCS0)_1TX

AV Power

5720MHz Straddle 5.47-5.725GHz

15/11/2018

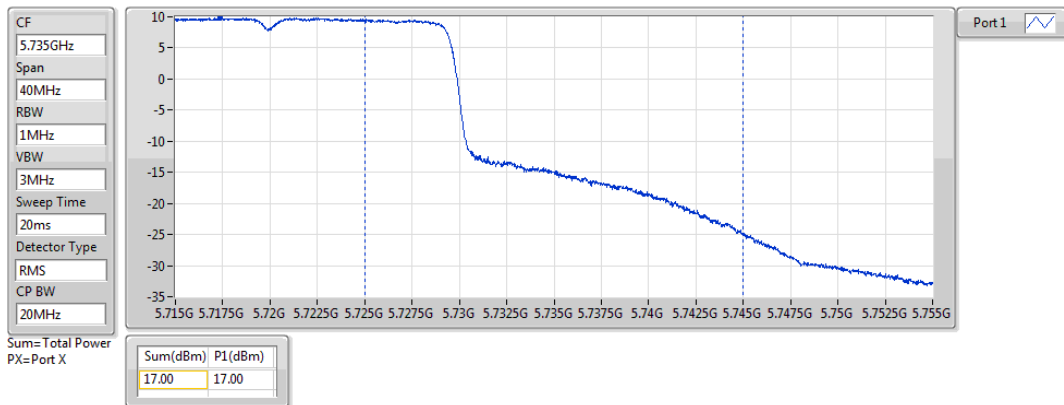


802.11ax HEW20_Nss1,(MCS0)_1TX

AV Power

5720MHz Straddle 5.725-5.85GHz

15/11/2018

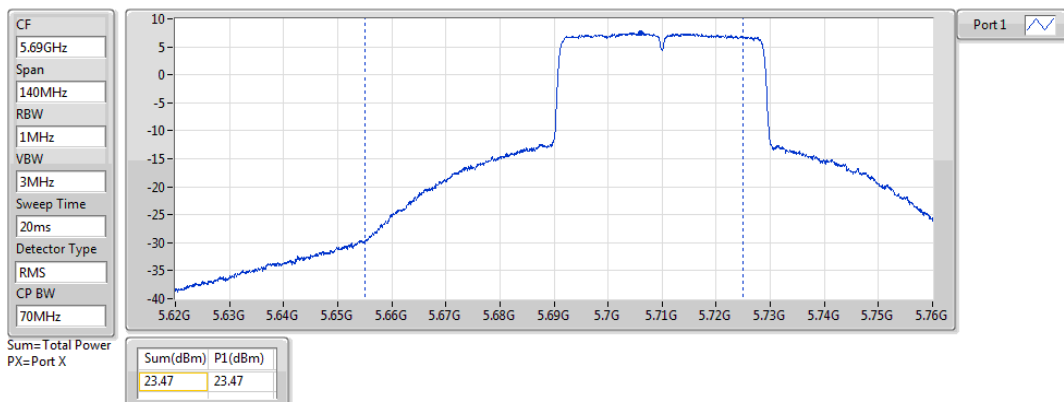


802.11ax HEW40_Nss1,(MCS0)_1TX

AV Power

5710MHz Straddle 5.47-5.725GHz

15/11/2018

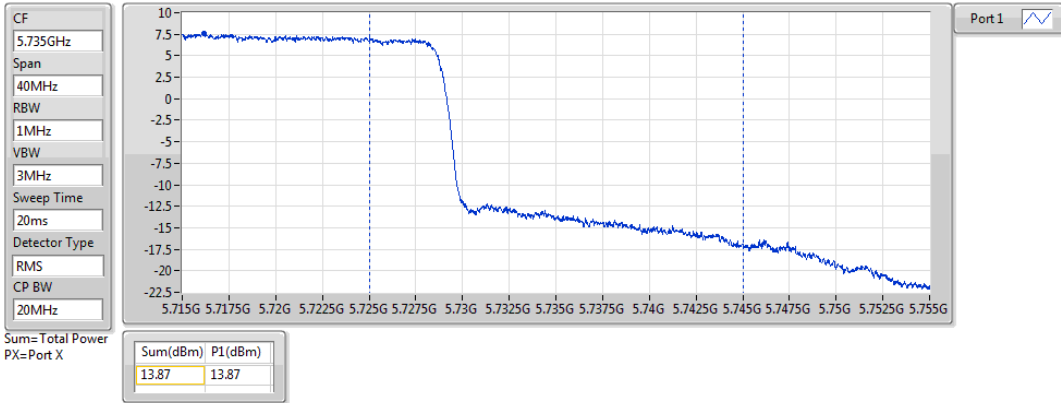


802.11ax HEW40_Nss1,(MCS0)_1TX

AV Power

5710MHz Straddle 5.725-5.85GHz

15/11/2018

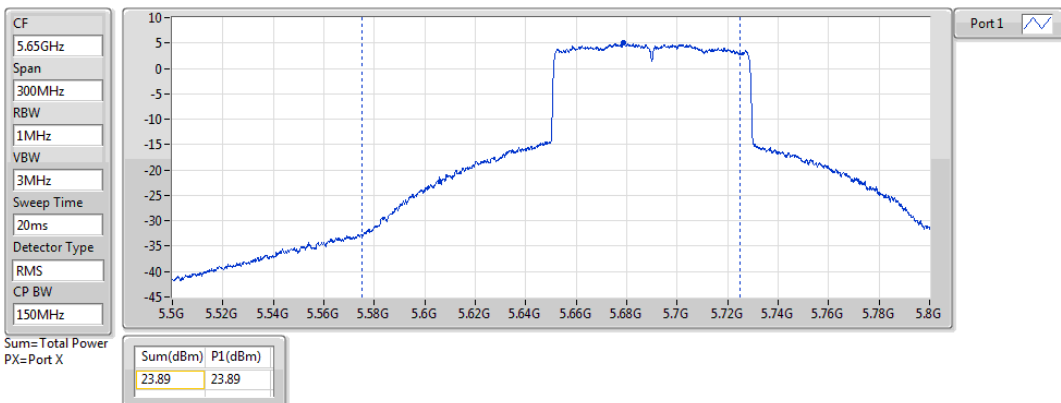


802.11ax HEW80_Nss1,(MCS0)_1TX

AV Power

5690MHz Straddle 5.47-5.725GHz

15/11/2018

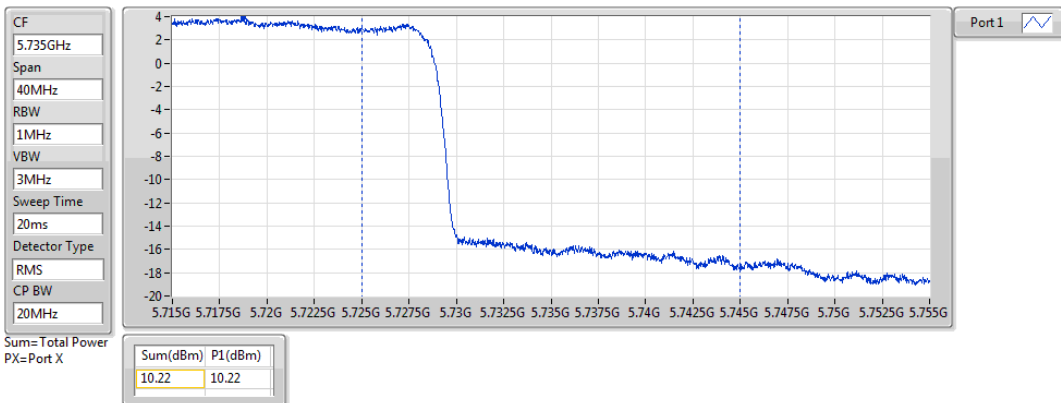


802.11ax HEW80_Nss1,(MCS0)_1TX

AV Power

5690MHz Straddle 5.725-5.85GHz

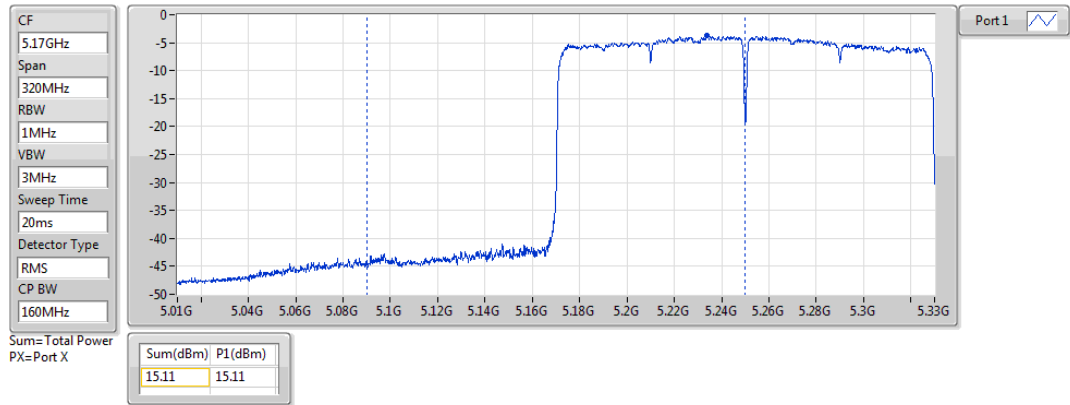
15/11/2018



802.11ax HEW160_Nss1,(MCS0)_1TX

AV Power

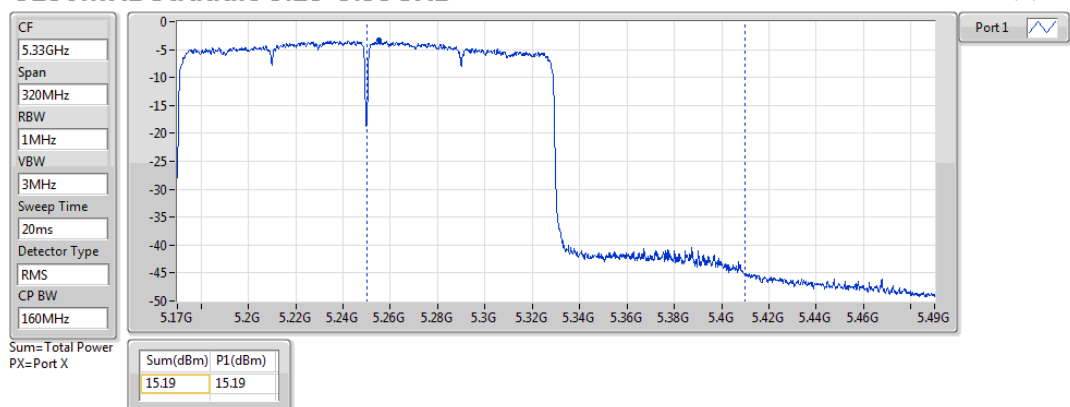
5250MHz Straddle 5.15-5.25GHz



802.11ax HEW160_Nss1,(MCS0)_1TX

AV Power

5250MHz Straddle 5.25-5.35GHz



**Summary**

Mode	Total Power (dBm)	Total Power (W)
5.15-5.25GHz	-	-
802.11ax HEW160_Nss2,(MCS0)_2TX	14.38	0.02742
5.25-5.35GHz	-	-
802.11ax HEW20_Nss2,(MCS0)_2TX	23.96	0.24889
802.11ax HEW40_Nss2,(MCS0)_2TX	23.92	0.24660
802.11ax HEW80_Nss2,(MCS0)_2TX	18.97	0.07889
802.11ax HEW160_Nss2,(MCS0)_2TX	14.10	0.02570
5.47-5.725GHz	-	-
802.11ax HEW20_Nss2,(MCS0)_2TX	23.86	0.24322
802.11ax HEW40_Nss2,(MCS0)_2TX	23.95	0.24831
802.11ax HEW80_Nss2,(MCS0)_2TX	23.89	0.24491
802.11ax HEW160_Nss2,(MCS0)_2TX	17.72	0.05916
5.725-5.85GHz	-	-
802.11ax HEW20_Nss2,(MCS0)_2TX	18.30	0.06761
802.11ax HEW40_Nss2,(MCS0)_2TX	14.23	0.02649
802.11ax HEW80_Nss2,(MCS0)_2TX	10.29	0.01069

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)	Conducted Setting
802.11ax HEW20_Nss2,(MCS0)_2TX	-	-	-	-	-	-	
5260MHz	Pass	5.10	21.13	20.77	23.96	23.98	20.75
5300MHz	Pass	5.10	21.12	20.73	23.94	23.98	20.75
5320MHz	Pass	5.10	19.20	18.62	21.93	23.98	18.75
5500MHz	Pass	5.10	19.09	18.83	21.97	23.98	18.25
5580MHz	Pass	5.10	20.96	20.73	23.86	23.98	20
5700MHz	Pass	5.10	16.98	17.84	20.44	23.98	17.25
5720MHz Straddle 5.47-5.725GHz	Pass	5.10	20.27	20.50	23.40	23.43	21.25
5720MHz Straddle 5.725-5.85GHz	Pass	5.10	15.13	15.45	18.30	30.00	21.25
802.11ax HEW40_Nss2,(MCS0)_2TX	-	-	-	-	-	-	
5270MHz	Pass	5.10	21.06	20.75	23.92	23.98	21
5310MHz	Pass	5.10	16.66	17.04	19.86	23.98	16.75
5510MHz	Pass	5.10	17.77	17.29	20.55	23.98	16.5
5550MHz	Pass	5.10	20.88	20.99	23.95	23.98	20.25
5670MHz	Pass	5.10	17.78	18.51	21.17	23.98	17.75
5710MHz Straddle 5.47-5.725GHz	Pass	5.10	20.47	21.16	23.84	23.98	21.25
5710MHz Straddle 5.725-5.85GHz	Pass	5.10	10.63	11.74	14.23	30.00	21.25
802.11ax HEW80_Nss2,(MCS0)_2TX	-	-	-	-	-	-	
5290MHz	Pass	5.10	16.51	15.33	18.97	23.98	16.5
5530MHz	Pass	5.10	16.46	16.30	19.39	23.98	15.5
5610MHz	Pass	5.10	19.89	19.63	22.77	23.98	19
5690MHz Straddle 5.47-5.725GHz	Pass	5.10	21.26	20.46	23.89	23.98	20.75
5690MHz Straddle 5.725-5.85GHz	Pass	5.10	7.56	6.99	10.29	30.00	20.75
802.11ax HEW160_Nss2,(MCS0)_2TX	-	-	-	-	-	-	
5250MHz Straddle 5.15-5.25GHz	Pass	5.10	11.66	11.05	14.38	30.00	14.25
5250MHz Straddle 5.25-5.35GHz	Pass	5.10	11.20	10.97	14.10	23.98	14.25
5570MHz	Pass	5.10	14.69	14.72	17.72	23.98	14.25

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

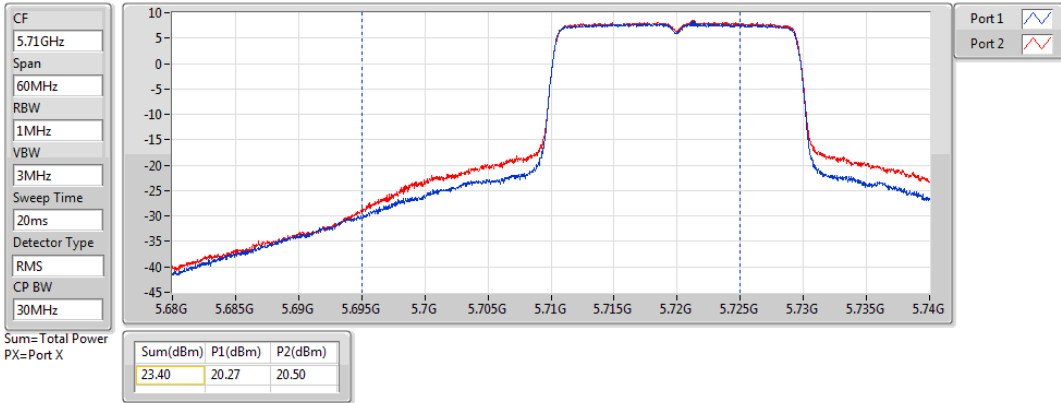
Note : Conducted setting = Pass conducted setting division 4.

802.11ax HEW20_Nss2,(MCS0)_2TX

AV Power

5720MHz Straddle 5.47-5.725GHz

15/11/2018

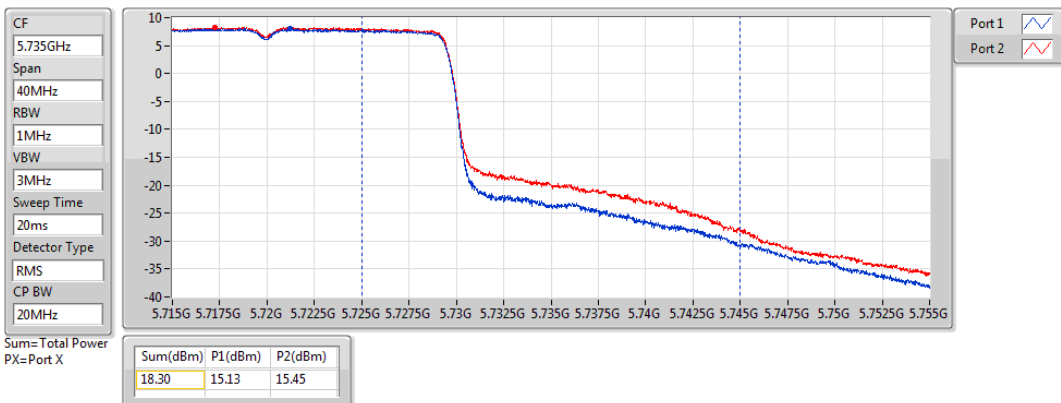


802.11ax HEW20_Nss2,(MCS0)_2TX

AV Power

5720MHz Straddle 5.725-5.85GHz

15/11/2018

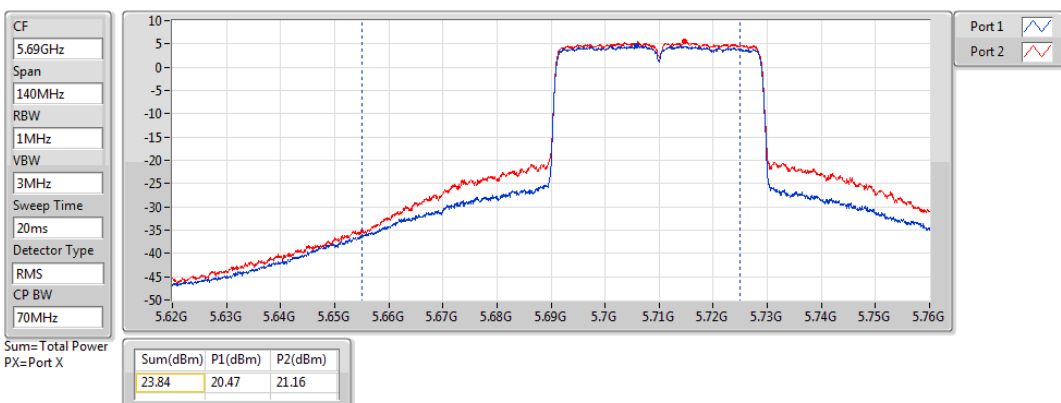


802.11ax HEW40_Nss2,(MCS0)_2TX

AV Power

5710MHz Straddle 5.47-5.725GHz

15/11/2018

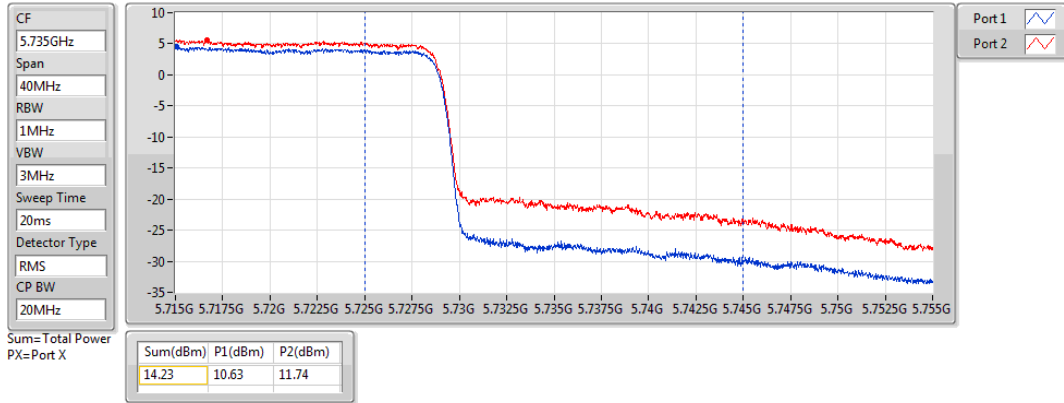


802.11ax HEW40_Nss2,(MCS0)_2TX

AV Power

5710MHz Straddle 5.725-5.85GHz

15/11/2018

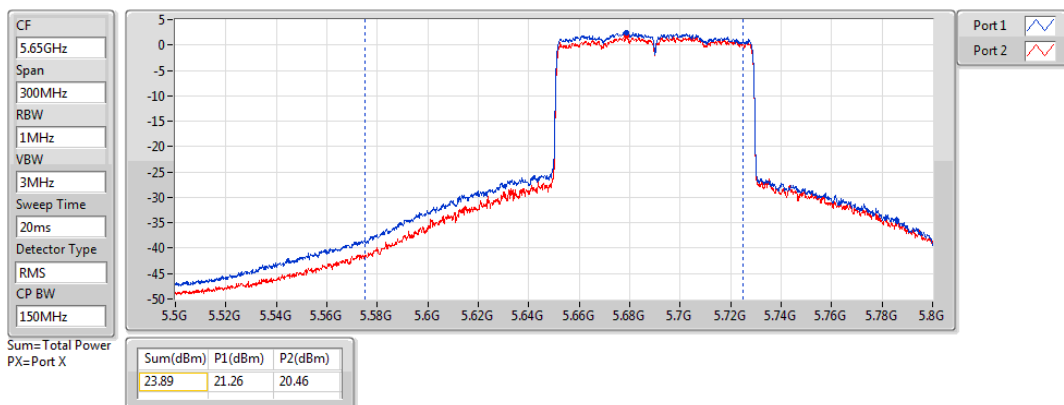


802.11ax HEW80_Nss2,(MCS0)_2TX

AV Power

5690MHz Straddle 5.47-5.725GHz

15/11/2018

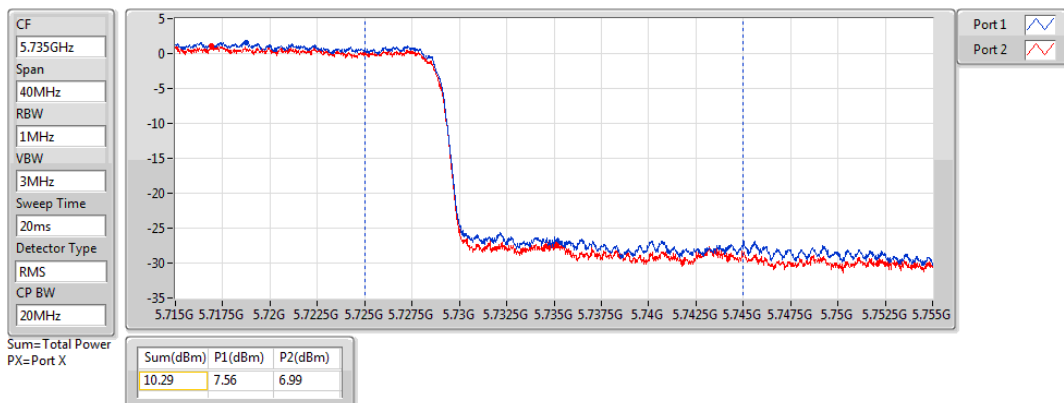


802.11ax HEW80_Nss2,(MCS0)_2TX

AV Power

5690MHz Straddle 5.725-5.85GHz

15/11/2018

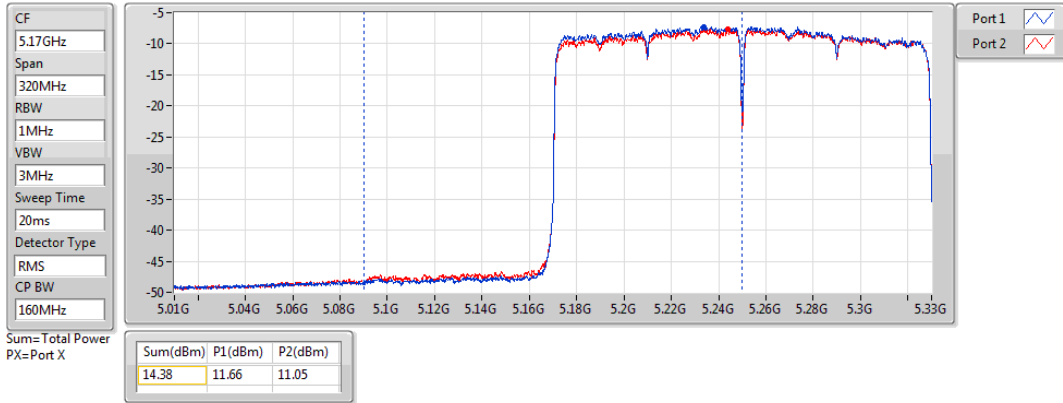


802.11ax HEW160_Nss2,(MCS0)_2TX

AV Power

5250MHz Straddle 5.15-5.25GHz

15/11/2018

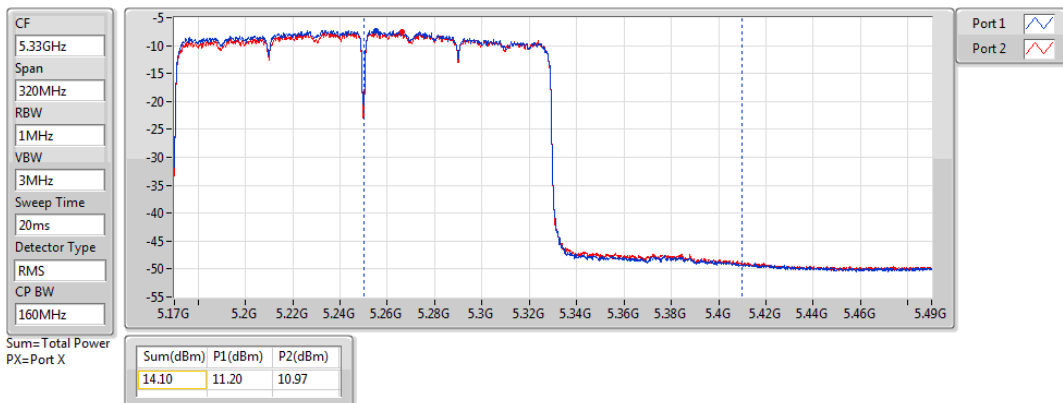


802.11ax HEW160_Nss2,(MCS0)_2TX

AV Power

5250MHz Straddle 5.25-5.35GHz

15/11/2018



Summary

Mode	Total Power (dBm)	Total Power (W)
5.25-5.35GHz	-	-
802.11a_Nss1,(6Mbps)_4TX	19.78	0.09506
5.47-5.725GHz	-	-
802.11a_Nss1,(6Mbps)_4TX	19.87	0.09705
5.725-5.85GHz	-	-
802.11a_Nss1,(6Mbps)_4TX	11.71	0.01483

Result

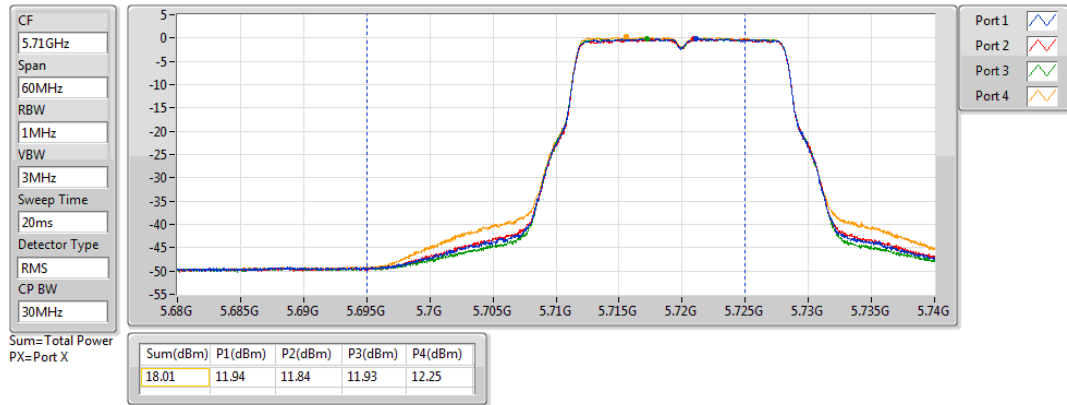
Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Port 3 (dBm)	Port 4 (dBm)	Total Power (dBm)	Power Limit (dBm)	Conducted Setting
802.11a_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-	
5260MHz	Pass	5.29	13.59	13.66	13.97	13.81	19.78	23.98	13.5
5300MHz	Pass	5.29	13.69	13.44	14.13	13.66	19.76	23.98	13.5
5320MHz	Pass	5.29	13.49	13.37	14.06	13.75	19.70	23.98	13.5
5500MHz	Pass	5.29	14.30	13.42	13.05	13.97	19.73	23.98	13.25
5580MHz	Pass	5.29	14.02	13.87	13.15	14.29	19.87	23.98	13.5
5700MHz	Pass	5.29	13.97	13.83	13.32	13.63	19.71	23.98	14
5720MHz Straddle 5.47-5.725GHz	Pass	5.29	11.94	11.84	11.93	12.25	18.01	22.94	14.25
5720MHz Straddle 5.725-5.85GHz	Pass	5.29	5.65	5.60	5.71	5.78	11.71	30.00	14.25

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

Note : Conducted setting = Pass conducted setting division 4.

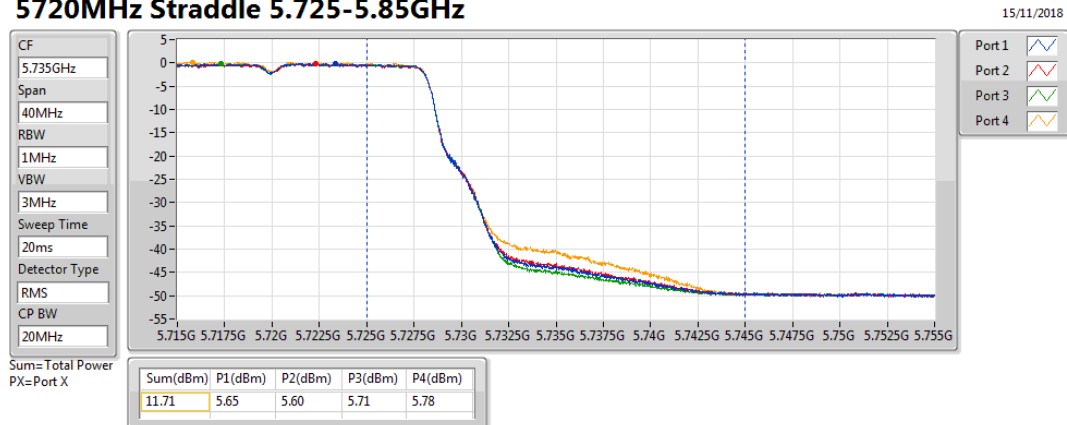
802.11a_Nss1,(6Mbps)_4TX 5720MHz Straddle 5.47-5.725GHz

AV Power



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

AV Power



**Summary**

Mode	Total Power (dBm)	Total Power (W)
5.15-5.25GHz	-	-
802.11ax HEW160_Nss1,(MCS0)_4TX	13.76	0.02377
5.25-5.35GHz	-	-
802.11ax HEW20_Nss1,(MCS0)_4TX	20.21	0.10495
802.11ax HEW40_Nss1,(MCS0)_4TX	22.73	0.18750
802.11ax HEW80_Nss1,(MCS0)_4TX	19.10	0.08128
802.11ax HEW160_Nss1,(MCS0)_4TX	14.04	0.02535
5.47-5.725GHz	-	-
802.11ax HEW20_Nss1,(MCS0)_4TX	20.23	0.10544
802.11ax HEW40_Nss1,(MCS0)_4TX	23.01	0.19999
802.11ax HEW80_Nss1,(MCS0)_4TX	23.94	0.24774
802.11ax HEW160_Nss1,(MCS0)_4TX	18.07	0.06412
5.725-5.85GHz	-	-
802.11ax HEW20_Nss1,(MCS0)_4TX	13.52	0.02249
802.11ax HEW40_Nss1,(MCS0)_4TX	11.97	0.01574
802.11ax HEW80_Nss1,(MCS0)_4TX	9.93	0.00984

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Port 3 (dBm)	Port 4 (dBm)	Total Power (dBm)	Power Limit (dBm)	Conducted Setting
802.11ax HEW20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	
5260MHz	Pass	5.29	13.96	14.10	14.35	14.33	20.21	23.98	13.75
5300MHz	Pass	5.29	13.84	14.04	14.44	14.15	20.14	23.98	13.75
5320MHz	Pass	5.29	13.93	13.61	14.60	13.69	20.00	23.98	13.75
5500MHz	Pass	5.29	14.71	14.08	13.44	14.49	20.23	23.98	13.5
5580MHz	Pass	5.29	14.53	14.19	13.56	14.48	20.23	23.98	13.75
5700MHz	Pass	5.29	13.94	14.46	14.23	13.88	20.15	23.98	14.25
5720MHz Straddle 5.47-5.725GHz	Pass	5.29	12.72	12.62	12.86	12.55	18.71	22.95	14.75
5720MHz Straddle 5.725-5.85GHz	Pass	5.29	7.54	7.45	7.70	7.30	13.52	30.00	14.75
802.11ax HEW40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	
5270MHz	Pass	5.29	16.42	16.67	16.58	17.13	22.73	23.98	16.75
5310MHz	Pass	5.29	14.20	14.17	14.49	14.90	20.47	23.98	14.5
5510MHz	Pass	5.29	15.21	14.84	13.85	14.98	20.77	23.98	14.25
5550MHz	Pass	5.29	17.17	16.83	16.55	17.20	22.97	23.98	16.5
5670MHz	Pass	5.29	16.93	17.27	16.73	17.01	23.01	23.98	16.75
5710MHz Straddle 5.47-5.725GHz	Pass	5.29	15.35	16.62	15.44	15.95	21.89	23.98	17.25
5710MHz Straddle 5.725-5.85GHz	Pass	5.29	5.53	6.66	5.71	5.80	11.97	30.00	17.25
802.11ax HEW80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	
5290MHz	Pass	5.29	12.88	12.52	13.23	13.62	19.10	23.98	13.25
5530MHz	Pass	5.29	14.41	14.57	13.89	14.50	20.37	23.98	13.5
5610MHz	Pass	5.29	18.06	17.93	18.05	17.61	23.94	23.98	17.5
5690MHz Straddle 5.47-5.725GHz	Pass	5.29	17.60	17.98	18.02	17.46	23.79	23.98	18.25
5690MHz Straddle 5.725-5.85GHz	Pass	5.29	3.75	4.14	4.28	3.43	9.93	30.00	18.25
802.11ax HEW160_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	
5250MHz Straddle 5.15-5.25GHz	Pass	5.29	7.94	7.23	8.04	7.69	13.76	30.00	11.5
5250MHz Straddle 5.25-5.35GHz	Pass	5.29	8.03	7.65	8.15	8.22	14.04	23.98	11.5
5570MHz	Pass	5.29	12.11	12.09	11.62	12.35	18.07	23.98	11.25

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

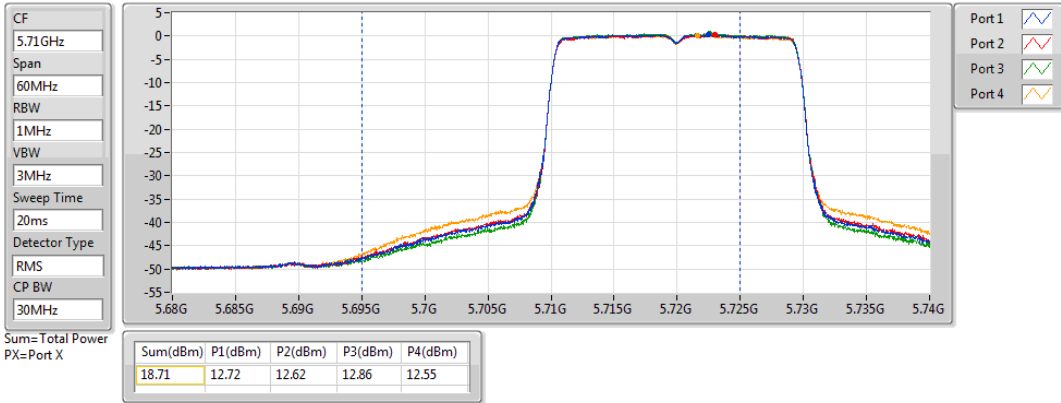
Note : Conducted setting = Pass conducted setting division 4.

802.11ax HEW20_Nss1,(MCS0)_4TX

AV Power

5720MHz Straddle 5.47-5.725GHz

15/11/2018

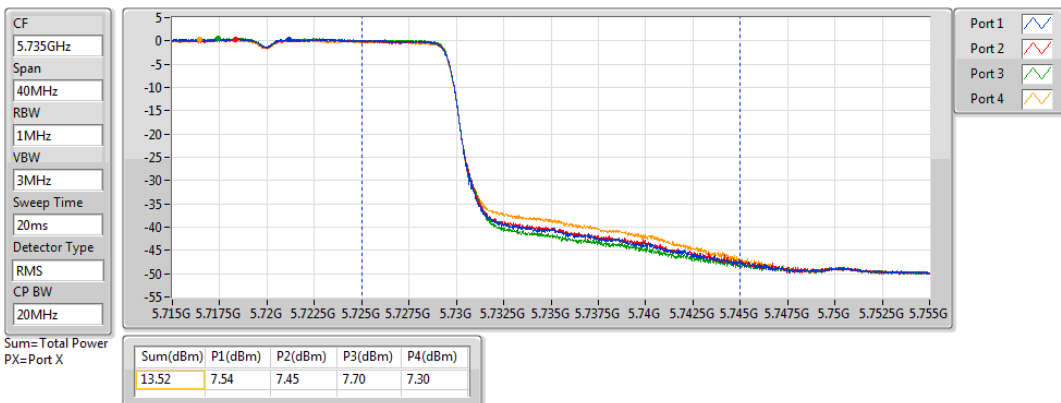


802.11ax HEW20_Nss1,(MCS0)_4TX

AV Power

5720MHz Straddle 5.725-5.85GHz

15/11/2018



802.11ax HEW40_Nss1,(MCS0)_4TX

AV Power

5270MHz

15/11/2018

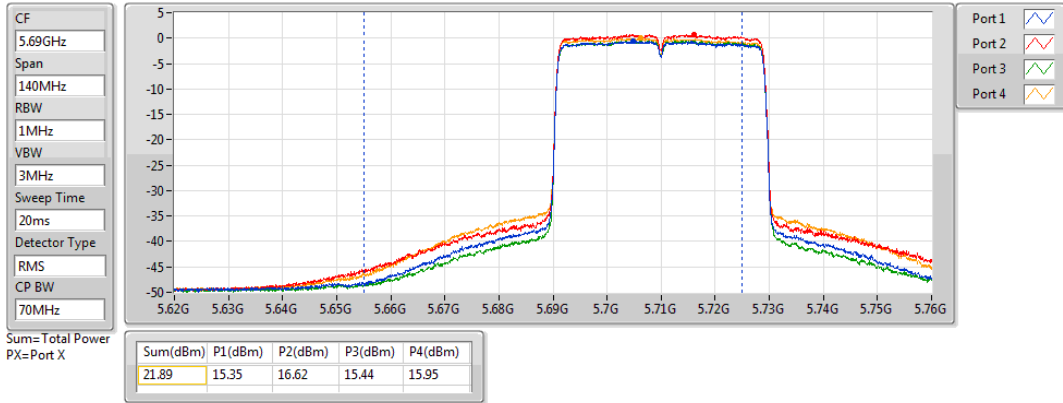


802.11ax HEW40_Nss1,(MCS0)_4TX

AV Power

5710MHz Straddle 5.47-5.725GHz

15/11/2018

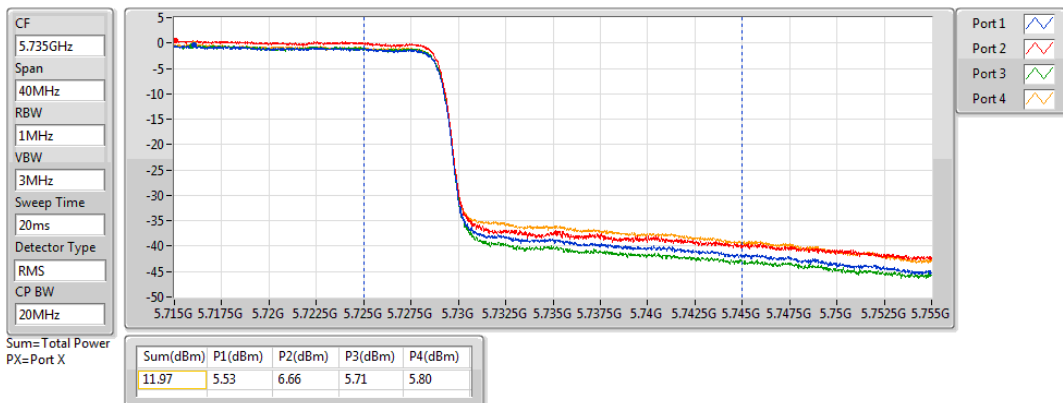


802.11ax HEW40_Nss1,(MCS0)_4TX

AV Power

5710MHz Straddle 5.725-5.85GHz

15/11/2018

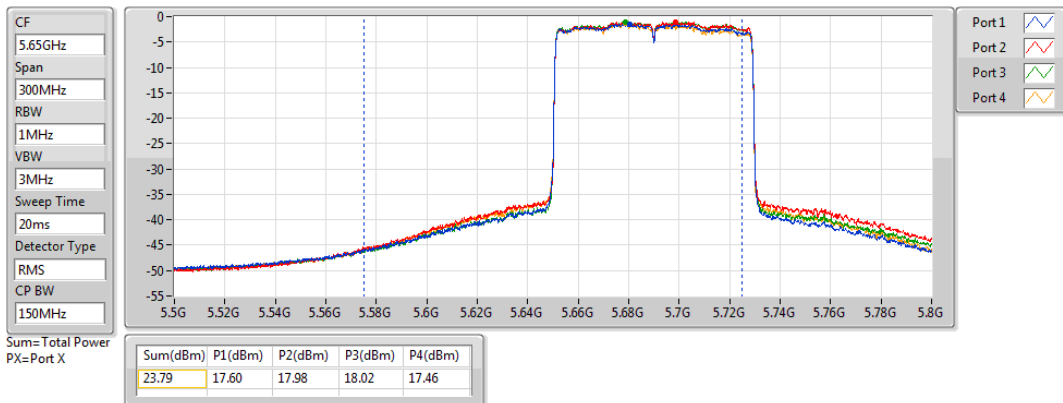


802.11ax HEW80_Nss1,(MCS0)_4TX

AV Power

5690MHz Straddle 5.47-5.725GHz

15/11/2018

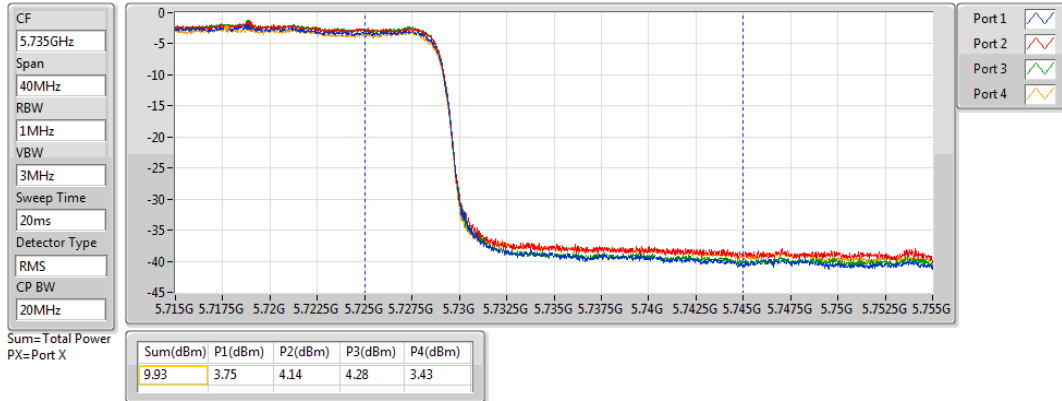


802.11ax HEW80_Nss1,(MCS0)_4TX

AV Power

5690MHz Straddle 5.725-5.85GHz

15/11/2018

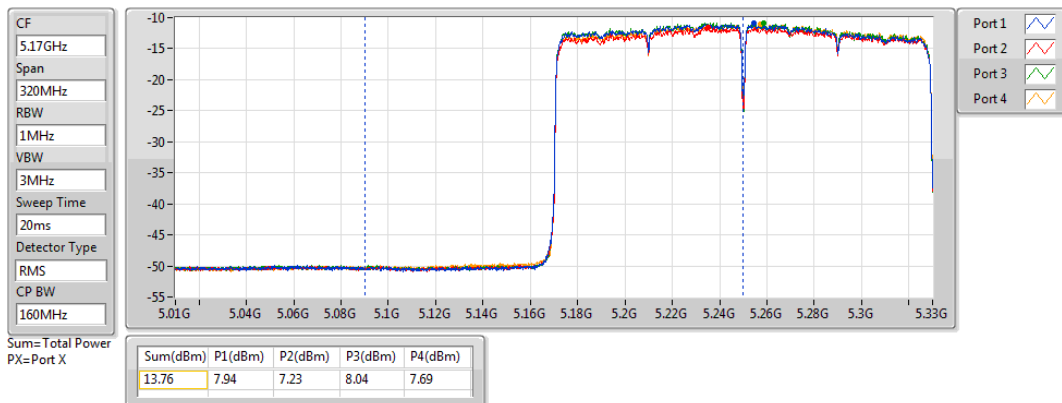


802.11ax HEW160_Nss1,(MCS0)_4TX

AV Power

5250MHz Straddle 5.15-5.25GHz

15/11/2018

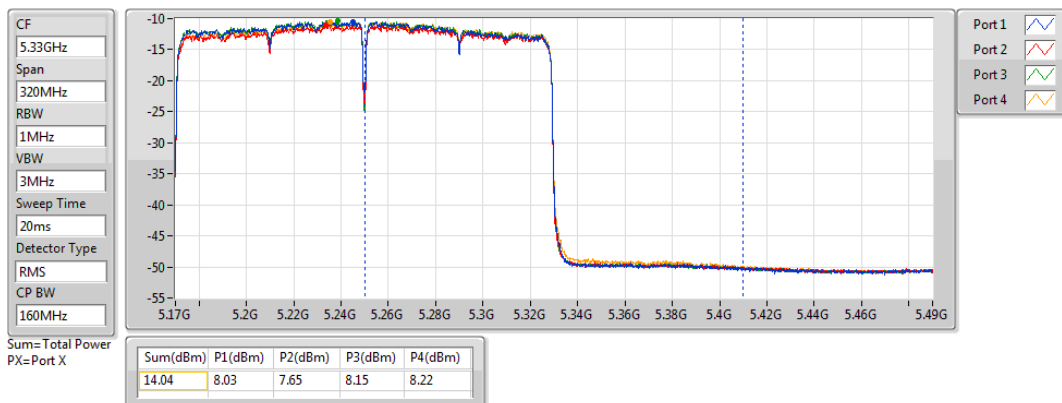


802.11ax HEW160_Nss1,(MCS0)_4TX

AV Power

5250MHz Straddle 5.25-5.35GHz

15/11/2018



**Summary**

Mode	Total Power (dBm)	Total Power (W)
5.15-5.25GHz	-	-
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	16.88	0.04875
5.25-5.35GHz	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	19.00	0.07943
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	18.84	0.07656
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	18.94	0.07834
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	17.24	0.05297
5.47-5.725GHz	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	18.93	0.07816
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	18.96	0.07870
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	19.00	0.07943
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	18.90	0.07762
5.725-5.85GHz	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	12.22	0.01667
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	8.71	0.00743
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	5.22	0.00333

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Port 3 (dBm)	Port 4 (dBm)	Total Power (dBm)	Power Limit (dBm)	Conducted Setting
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	
5260MHz	Pass	10.97	12.57	13.03	12.98	13.30	19.00	19.01	12.25
5300MHz	Pass	10.97	12.94	12.29	12.89	13.02	18.82	19.01	12.25
5320MHz	Pass	10.97	12.65	12.65	12.65	13.47	18.89	19.01	12.25
5500MHz	Pass	10.97	12.73	13.17	12.69	13.04	18.93	19.01	12.25
5580MHz	Pass	10.97	12.57	13.09	12.72	13.12	18.90	19.01	12.25
5700MHz	Pass	10.97	12.38	12.92	13.10	13.18	18.93	19.01	12.75
5720MHz Straddle 5.47-5.725GHz	Pass	10.97	11.43	11.88	12.34	12.12	17.98	17.99	12.75
5720MHz Straddle 5.725-5.85GHz	Pass	10.97	5.74	6.32	6.15	6.54	12.22	25.03	12.75
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	
5270MHz	Pass	10.97	12.70	13.16	12.36	12.99	18.83	19.01	12.75
5310MHz	Pass	10.97	12.52	13.21	12.63	12.90	18.84	19.01	13
5510MHz	Pass	10.97	12.41	12.78	13.04	12.82	18.79	19.01	12.25
5550MHz	Pass	10.97	13.10	12.63	12.60	13.11	18.89	19.01	12.25
5670MHz	Pass	10.97	12.74	13.27	12.58	13.10	18.95	19.01	12.5
5710MHz Straddle 5.47-5.725GHz	Pass	10.97	12.32	13.28	12.89	13.20	18.96	19.01	13
5710MHz Straddle 5.725-5.85GHz	Pass	10.97	2.47	2.66	2.73	2.88	8.71	25.03	13
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	
5290MHz	Pass	10.97	13.04	12.38	13.00	13.20	18.94	19.01	13.25
5530MHz	Pass	10.97	12.85	13.27	12.73	12.66	18.90	19.01	12.25
5610MHz	Pass	10.97	12.71	13.23	12.96	13.00	19.00	19.01	12.5
5690MHz Straddle 5.47-5.725GHz	Pass	10.97	12.35	12.98	13.31	13.01	18.95	19.01	13
5690MHz Straddle 5.725-5.85GHz	Pass	10.97	-1.30	-0.56	-0.30	-1.11	5.22	25.03	13
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	
5250MHz Straddle 5.15-5.25GHz	Pass	10.97	11.04	10.71	10.77	10.91	16.88	19.01	14
5250MHz Straddle 5.25-5.35GHz	Pass	10.97	11.06	11.21	11.03	11.56	17.24	19.01	14
5570MHz	Pass	10.97	12.78	12.85	12.79	13.09	18.90	19.01	12.25

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

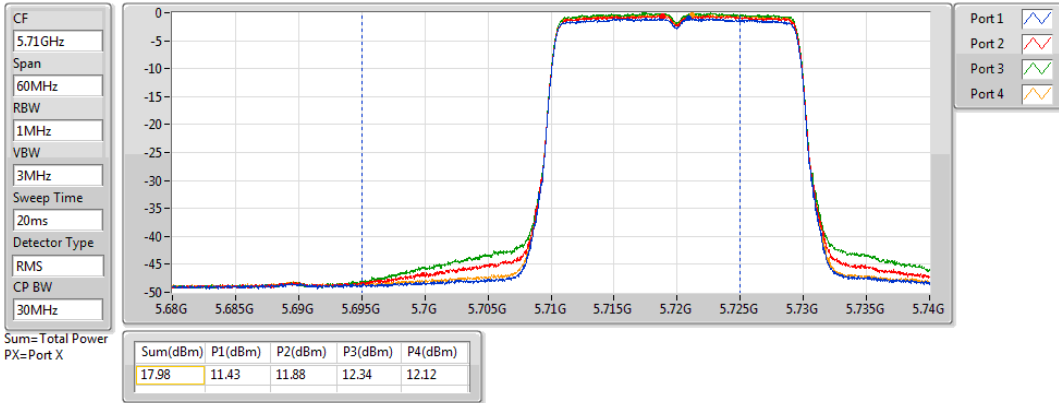
Note : Conducted setting = Pass conducted setting division 4.

802.11ax HEW20-BF_Nss1,(MCS0)_4TX

AV Power

5720MHz Straddle 5.47-5.725GHz

15/11/2018

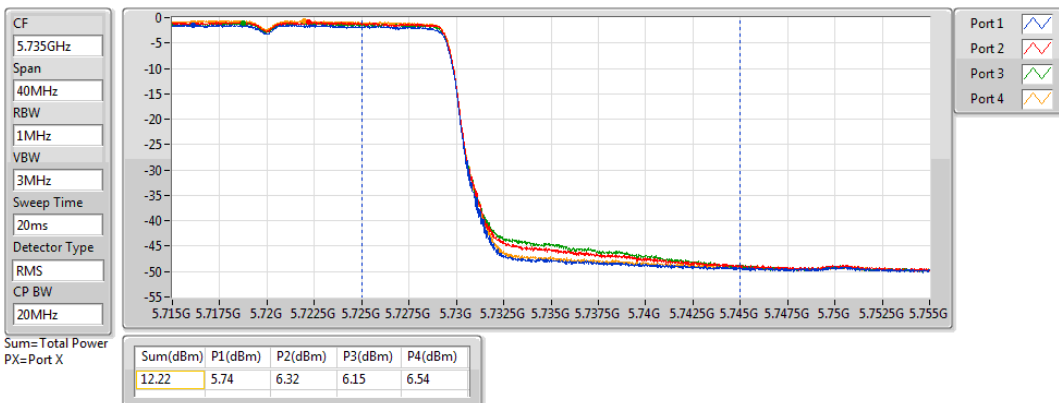


802.11ax HEW20-BF_Nss1,(MCS0)_4TX

AV Power

5720MHz Straddle 5.725-5.85GHz

15/11/2018

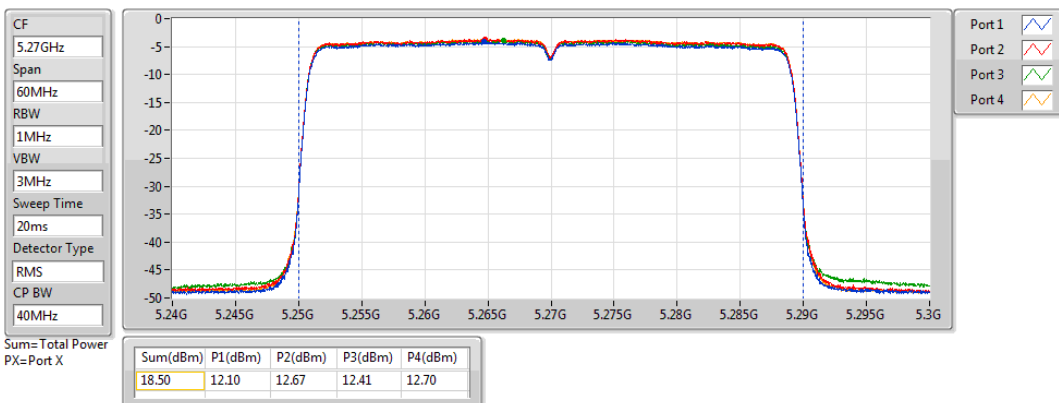


802.11ax HEW40-BF_Nss1,(MCS0)_4TX

AV Power

5270MHz

15/11/2018

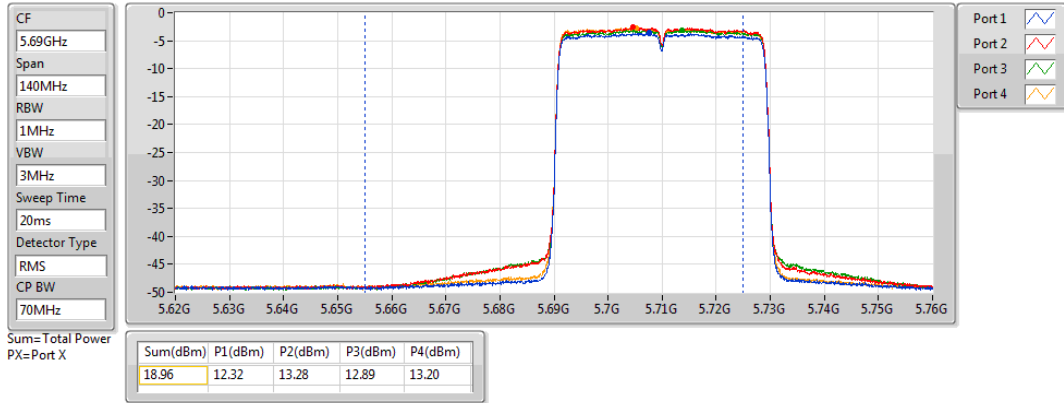


802.11ax HEW40-BF_Nss1,(MCS0)_4TX

AV Power

5710MHz Straddle 5.47-5.725GHz

15/11/2018

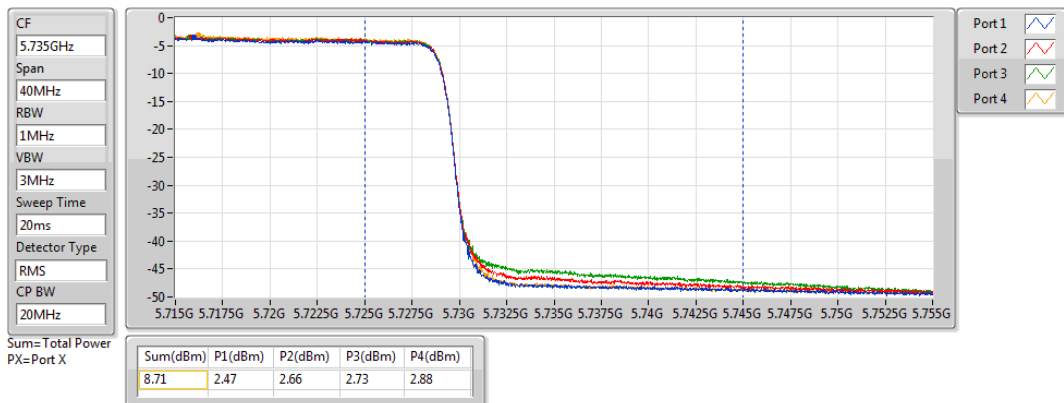


802.11ax HEW40-BF_Nss1,(MCS0)_4TX

AV Power

5710MHz Straddle 5.725-5.85GHz

15/11/2018

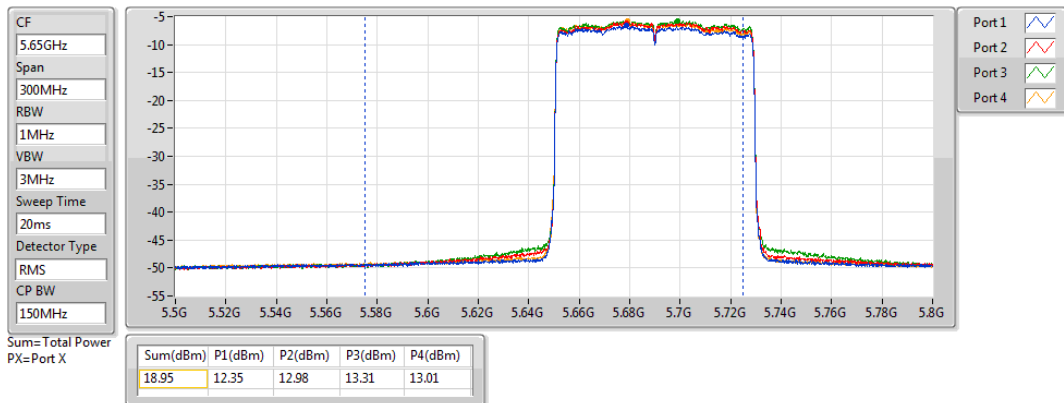


802.11ax HEW80-BF_Nss1,(MCS0)_4TX

AV Power

5690MHz Straddle 5.47-5.725GHz

15/11/2018

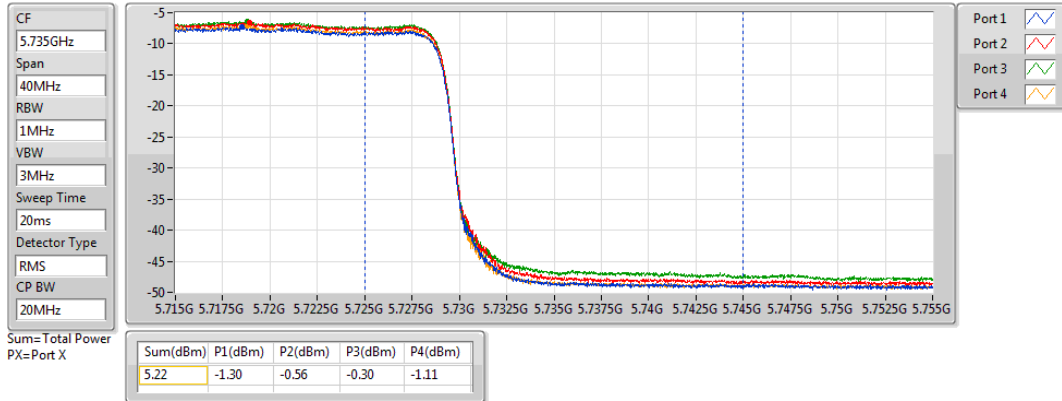


802.11ax HEW80-BF_Nss1,(MCS0)_4TX

AV Power

5690MHz Straddle 5.725-5.85GHz

15/11/2018

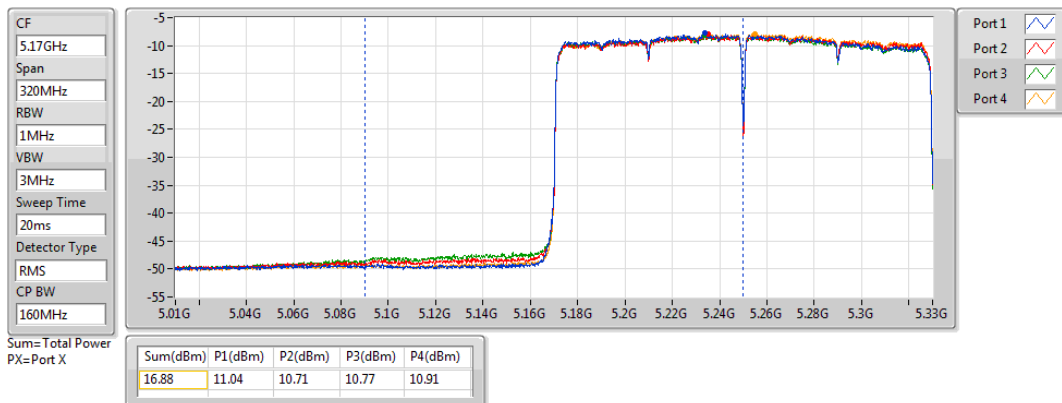


802.11ax HEW160-BF_Nss1,(MCS0)_4TX

AV Power

5250MHz Straddle 5.15-5.25GHz

15/11/2018

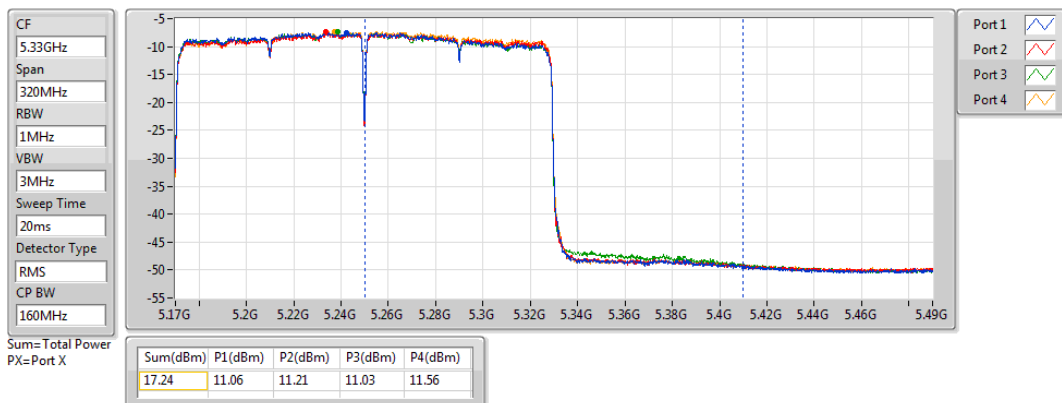


802.11ax HEW160-BF_Nss1,(MCS0)_4TX

AV Power

5250MHz Straddle 5.25-5.35GHz

15/11/2018



**Summary**

Mode	Total Power (dBm)	Total Power (W)
5.15-5.25GHz	-	-
802.11ax HEW160_Nss4,(MCS0)_4TX	14.18	0.02618
5.25-5.35GHz	-	-
802.11ax HEW20_Nss4,(MCS0)_4TX	23.86	0.24322
802.11ax HEW40_Nss4,(MCS0)_4TX	23.82	0.24099
802.11ax HEW80_Nss4,(MCS0)_4TX	19.35	0.08610
802.11ax HEW160_Nss4,(MCS0)_4TX	14.71	0.02958
5.47-5.725GHz	-	-
802.11ax HEW20_Nss4,(MCS0)_4TX	23.95	0.24831
802.11ax HEW40_Nss4,(MCS0)_4TX	23.96	0.24889
802.11ax HEW80_Nss4,(MCS0)_4TX	23.93	0.24717
802.11ax HEW160_Nss4,(MCS0)_4TX	19.53	0.08974
5.725-5.85GHz	-	-
802.11ax HEW20_Nss4,(MCS0)_4TX	17.41	0.05508
802.11ax HEW40_Nss4,(MCS0)_4TX	13.71	0.02350
802.11ax HEW80_Nss4,(MCS0)_4TX	9.89	0.00975

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Port 3 (dBm)	Port 4 (dBm)	Total Power (dBm)	Power Limit (dBm)	Conducted Setting
802.11ax HEW20_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	
5260MHz	Pass	4.96	17.54	17.79	18.18	17.83	23.86	23.98	17.5
5300MHz	Pass	4.96	17.58	17.63	18.20	17.80	23.83	23.98	17.5
5320MHz	Pass	4.96	17.00	16.54	17.83	17.04	23.15	23.98	17
5500MHz	Pass	4.96	17.52	16.64	16.71	17.06	23.02	23.98	16.25
5580MHz	Pass	4.96	18.36	17.90	17.40	18.01	23.95	23.98	17.25
5700MHz	Pass	4.96	15.25	15.73	15.68	15.79	21.64	23.98	15.75
5720MHz Straddle 5.47-5.725GHz	Pass	4.96	16.50	17.15	16.69	17.09	22.89	22.95	18.5
5720MHz Straddle 5.725-5.85GHz	Pass	4.96	10.77	11.79	11.54	11.41	17.41	30.00	18.5
802.11ax HEW40_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	
5270MHz	Pass	4.96	17.33	17.65	17.92	18.25	23.82	23.98	18
5310MHz	Pass	4.96	12.98	13.42	13.77	13.73	19.51	23.98	13.75
5510MHz	Pass	4.96	15.69	15.61	14.51	15.23	21.30	23.98	15
5550MHz	Pass	4.96	18.61	17.64	17.49	17.94	23.96	23.98	17.5
5670MHz	Pass	4.96	16.07	15.86	15.79	16.16	21.99	23.98	16.25
5710MHz Straddle 5.47-5.725GHz	Pass	4.96	17.69	17.90	17.62	17.85	23.79	23.98	18.75
5710MHz Straddle 5.725-5.85GHz	Pass	4.96	7.45	7.87	7.64	7.79	13.71	30.00	18.75
802.11ax HEW80_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	
5290MHz	Pass	4.96	13.17	12.79	13.56	13.75	19.35	23.98	13.75
5530MHz	Pass	4.96	14.32	14.45	14.08	14.64	20.40	23.98	13.75
5610MHz	Pass	4.96	18.05	18.12	17.83	17.60	23.93	23.98	17.75
5690MHz Straddle 5.47-5.725GHz	Pass	4.96	18.08	17.90	18.00	17.57	23.91	23.98	18.25
5690MHz Straddle 5.725-5.85GHz	Pass	4.96	3.86	4.04	4.15	3.40	9.89	30.00	18.25
802.11ax HEW160_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	
5250MHz Straddle 5.15-5.25GHz	Pass	4.96	8.34	7.82	8.41	8.03	14.18	30.00	12
5250MHz Straddle 5.25-5.35GHz	Pass	4.96	8.62	8.46	8.80	8.85	14.71	23.98	12
5570MHz	Pass	4.96	13.72	13.47	13.38	13.48	19.53	23.98	12.75

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

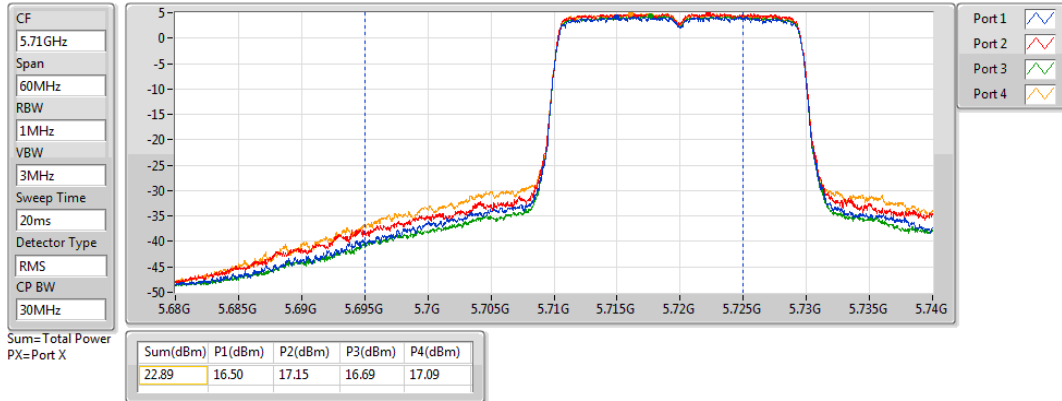
Note : Conducted setting = Pass conducted setting division 4.

802.11ax HEW20_Nss4,(MCS0)_4TX

AV Power

5720MHz Straddle 5.47-5.725GHz

15/11/2018

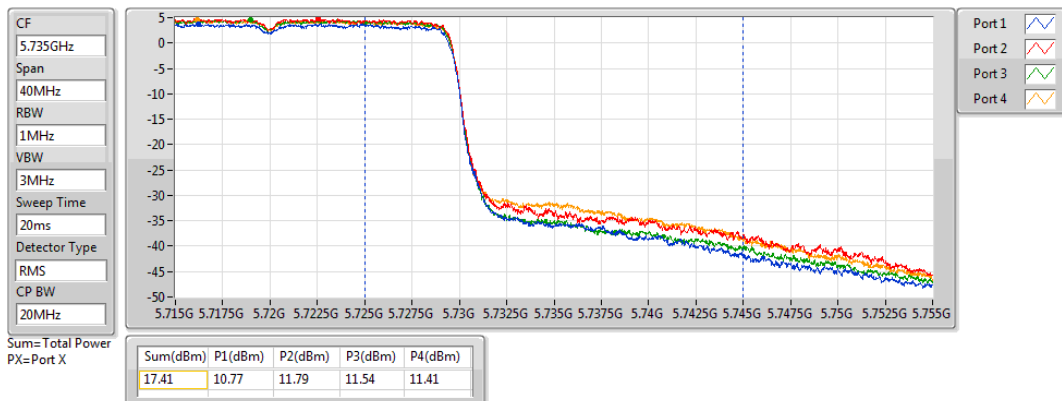


802.11ax HEW20_Nss4,(MCS0)_4TX

AV Power

5720MHz Straddle 5.725-5.85GHz

15/11/2018

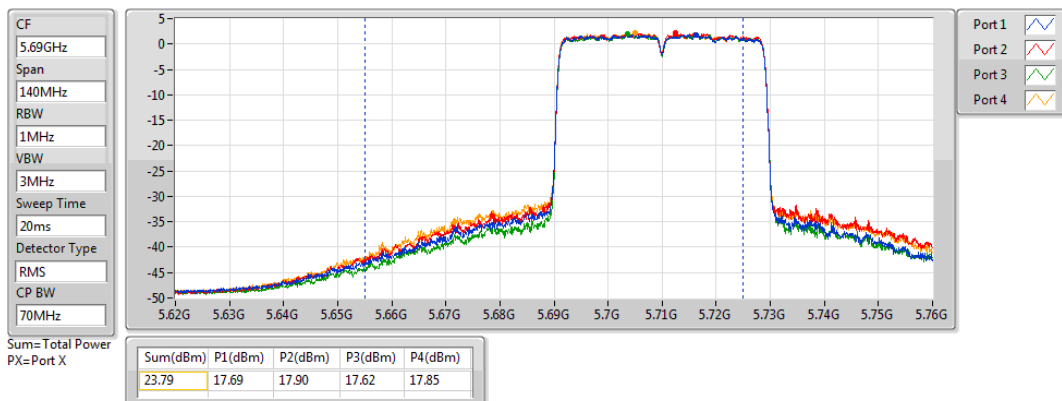


802.11ax HEW40_Nss4,(MCS0)_4TX

AV Power

5710MHz Straddle 5.47-5.725GHz

15/11/2018

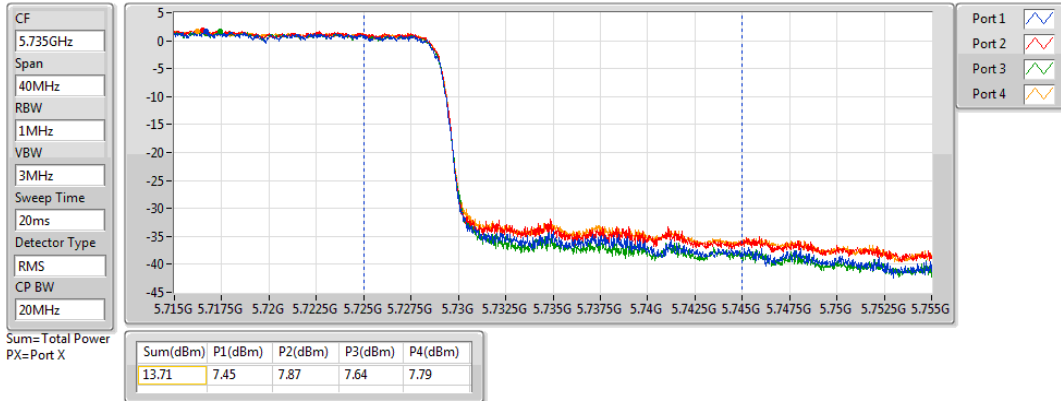


802.11ax HEW40_Nss4,(MCS0)_4TX

AV Power

5710MHz Straddle 5.725-5.85GHz

15/11/2018

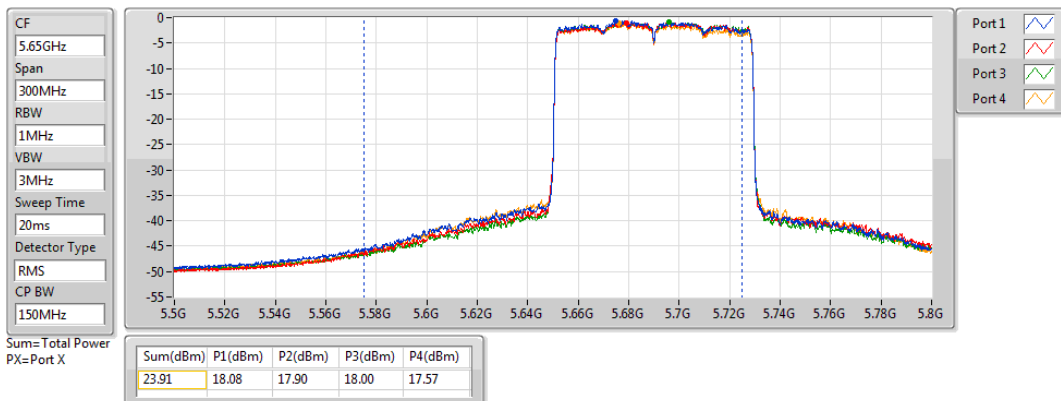


802.11ax HEW80_Nss4,(MCS0)_4TX

AV Power

5690MHz Straddle 5.47-5.725GHz

15/11/2018

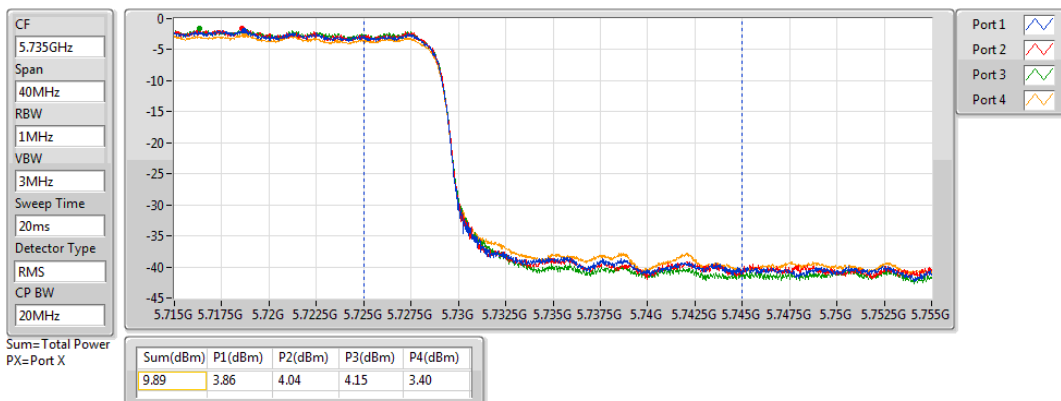


802.11ax HEW80_Nss4,(MCS0)_4TX

AV Power

5690MHz Straddle 5.725-5.85GHz

15/11/2018

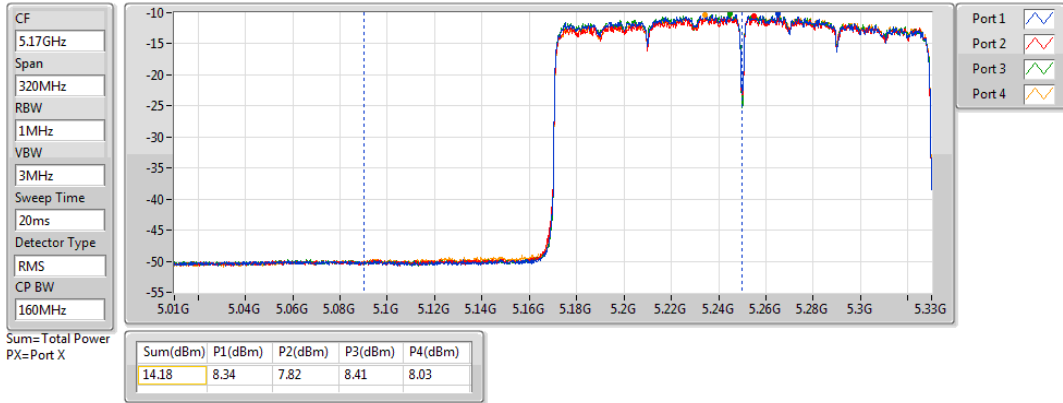


802.11ax HEW160_Nss4,(MCS0)_4TX

AV Power

5250MHz Straddle 5.15-5.25GHz

15/11/2018

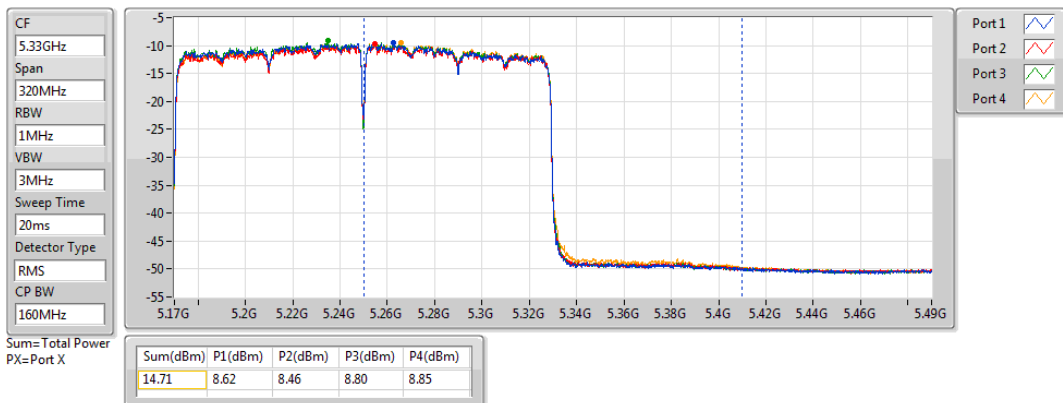


802.11ax HEW160_Nss4,(MCS0)_4TX

AV Power

5250MHz Straddle 5.25-5.35GHz

15/11/2018



Summary

Mode	PD (dBm/RBW)
5.25-5.35GHz	-
802.11a_Nss1,(6Mbps)_1TX	10.91
5.47-5.725GHz	-
802.11a_Nss1,(6Mbps)_1TX	10.84
5.725-5.85GHz	-
802.11a_Nss1,(6Mbps)_1TX	8.96

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

Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11a_Nss1,(6Mbps)_1TX	-	-	-	-	-
5260MHz	Pass	5.29	10.91	10.91	11.00
5300MHz	Pass	5.29	10.78	10.78	11.00
5320MHz	Pass	5.29	7.10	7.10	11.00
5500MHz	Pass	5.29	6.94	6.94	11.00
5580MHz	Pass	5.29	10.84	10.84	11.00
5700MHz	Pass	5.29	5.49	5.49	11.00
5720MHz Straddle 5.47-5.725GHz	Pass	5.29	10.77	10.77	11.00
5720MHz Straddle 5.725-5.85GHz	Pass	5.29	8.96	8.96	30.00

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

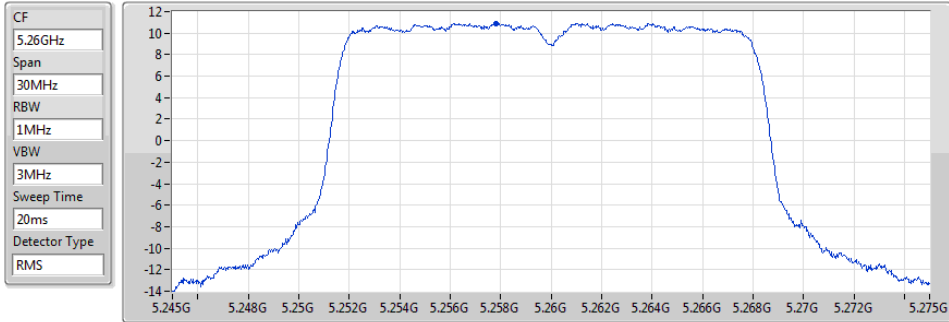
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; **Port X** = Port Xpower density;

802.11a_Nss1,(6Mbps)_1TX

PSD

5260MHz

15/11/2018



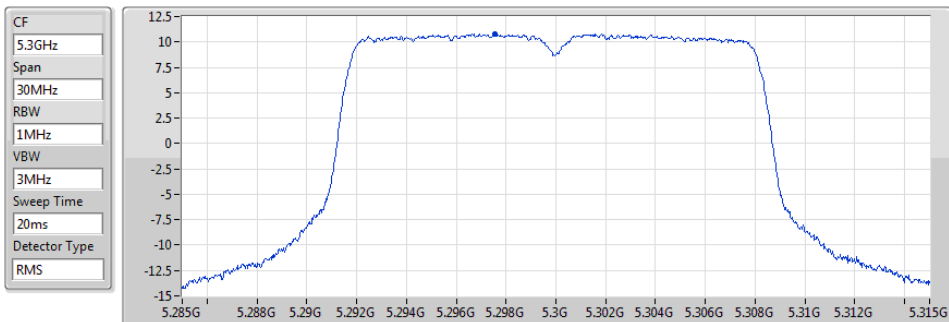
Sum	PD	Port 1
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
10.91	10.91	10.91

802.11a_Nss1,(6Mbps)_1TX

PSD

5300MHz

15/11/2018



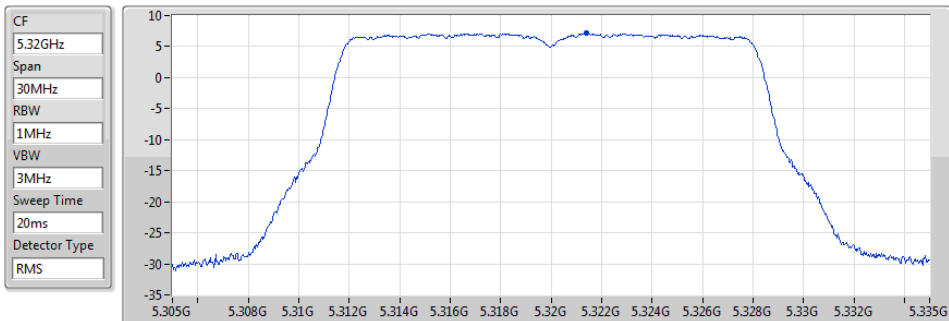
Sum	PD	Port 1
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
10.78	10.78	10.78

802.11a_Nss1,(6Mbps)_1TX

PSD

5320MHz

15/11/2018



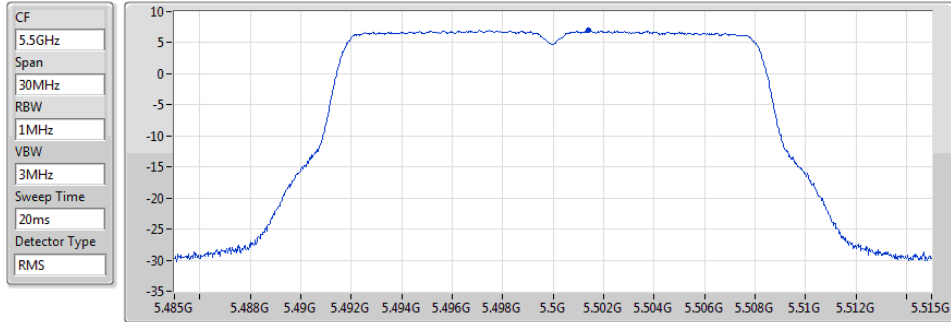
Sum	PD	Port 1
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
7.10	7.10	7.10

802.11a_Nss1,(6Mbps)_1TX

PSD

5500MHz

15/11/2018



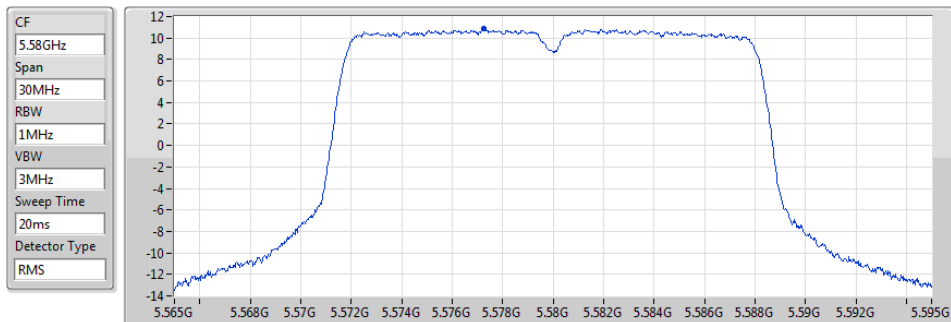
Sum	PD	Port 1
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
6.94	6.94	6.94

802.11a_Nss1,(6Mbps)_1TX

PSD

5580MHz

15/11/2018



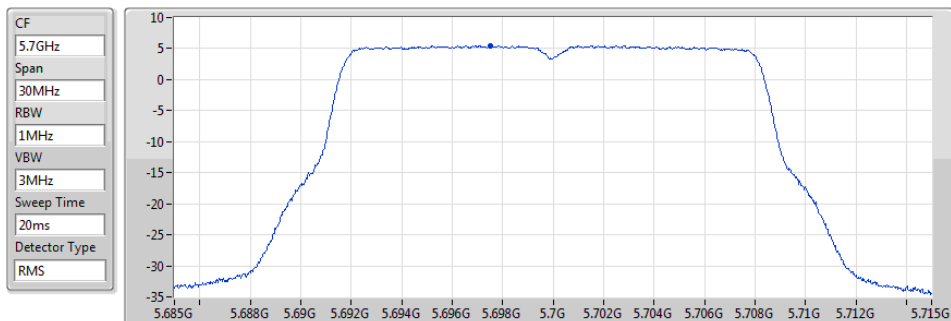
Sum	PD	Port 1
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
10.84	10.84	10.84

802.11a_Nss1,(6Mbps)_1TX

PSD

5700MHz

15/11/2018

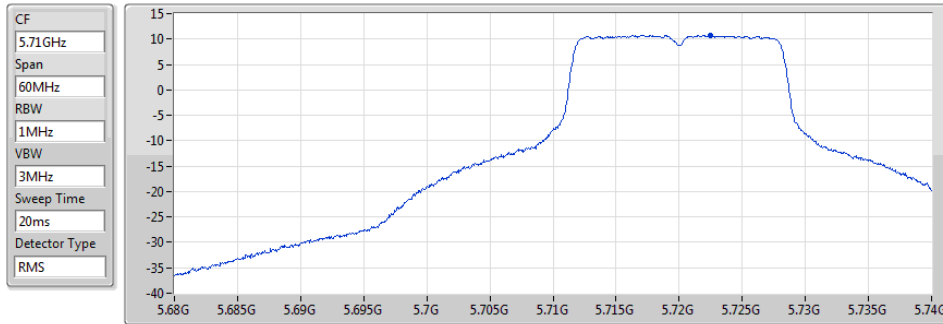


Sum	PD	Port 1
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
5.49	5.49	5.49

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

PSD

15/11/2018

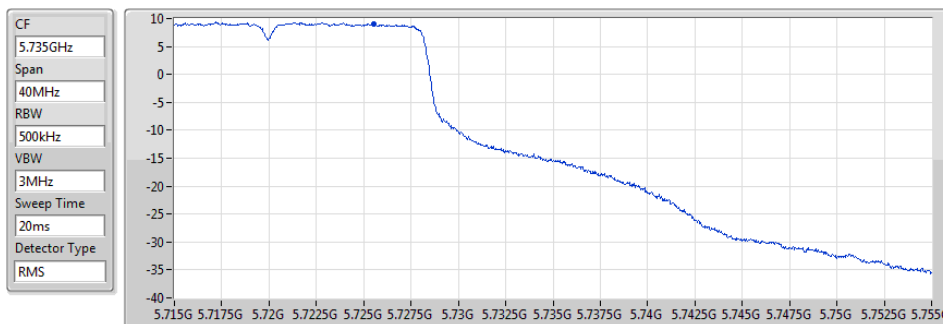


Sum	PD	Port1
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
10.77	10.77	10.77

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

PSD

15/11/2018



Sum	PD	Port1
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
8.96	8.96	8.96

Summary

Mode	PD (dBm/RBW)
5.15-5.25GHz	-
802.11ax HEW160_Nss1,(MCS0)_1TX	-3.80
5.25-5.35GHz	-
802.11ax HEW20_Nss1,(MCS0)_1TX	10.34
802.11ax HEW40_Nss1,(MCS0)_1TX	6.55
802.11ax HEW80_Nss1,(MCS0)_1TX	-0.84
802.11ax HEW160_Nss1,(MCS0)_1TX	-3.40
5.47-5.725GHz	-
802.11ax HEW20_Nss1,(MCS0)_1TX	10.14
802.11ax HEW40_Nss1,(MCS0)_1TX	7.44
802.11ax HEW80_Nss1,(MCS0)_1TX	4.88
802.11ax HEW160_Nss1,(MCS0)_1TX	-4.24
5.725-5.85GHz	-
802.11ax HEW20_Nss1,(MCS0)_1TX	7.89
802.11ax HEW40_Nss1,(MCS0)_1TX	5.47
802.11ax HEW80_Nss1,(MCS0)_1TX	2.09

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

Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11ax HEW20_Nss1,(MCS0)_1TX	-	-	-	-	-
5260MHz	Pass	5.29	10.34	10.34	11.00
5300MHz	Pass	5.29	10.17	10.17	11.00
5320MHz	Pass	5.29	6.45	6.45	11.00
5500MHz	Pass	5.29	5.86	5.86	11.00
5580MHz	Pass	5.29	10.14	10.14	11.00
5700MHz	Pass	5.29	5.19	5.19	11.00
5720MHz Straddle 5.47-5.725GHz	Pass	5.29	9.47	9.47	11.00
5720MHz Straddle 5.725-5.85GHz	Pass	5.29	7.89	7.89	30.00
802.11ax HEW40_Nss1,(MCS0)_1TX	-	-	-	-	-
5270MHz	Pass	5.29	6.55	6.55	11.00
5310MHz	Pass	5.29	2.63	2.63	11.00
5510MHz	Pass	5.29	2.94	2.94	11.00
5550MHz	Pass	5.29	6.27	6.27	11.00
5670MHz	Pass	5.29	3.30	3.30	11.00
5710MHz Straddle 5.47-5.725GHz	Pass	5.29	7.44	7.44	11.00
5710MHz Straddle 5.725-5.85GHz	Pass	5.29	5.47	5.47	30.00
802.11ax HEW80_Nss1,(MCS0)_1TX	-	-	-	-	-
5290MHz	Pass	5.29	-0.84	-0.84	11.00
5530MHz	Pass	5.29	-1.03	-1.03	11.00
5610MHz	Pass	5.29	1.84	1.84	11.00
5690MHz Straddle 5.47-5.725GHz	Pass	5.29	4.88	4.88	11.00
5690MHz Straddle 5.725-5.85GHz	Pass	5.29	2.09	2.09	30.00
802.11ax HEW160_Nss1,(MCS0)_1TX	-	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	5.29	-3.80	-3.80	17.00
5250MHz Straddle 5.25-5.35GHz	Pass	5.29	-3.40	-3.40	11.00
5570MHz	Pass	5.29	-4.24	-4.24	11.00

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

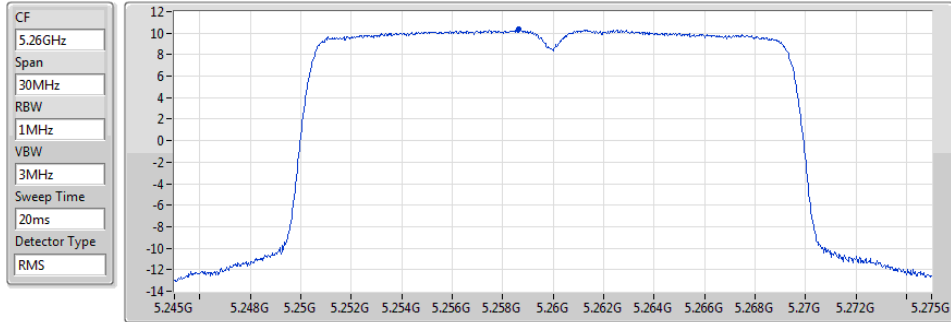
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; **Port X** = Port Xpower density;

802.11ax HEW20_Nss1,(MCS0)_1TX

PSD

5260MHz

15/11/2018



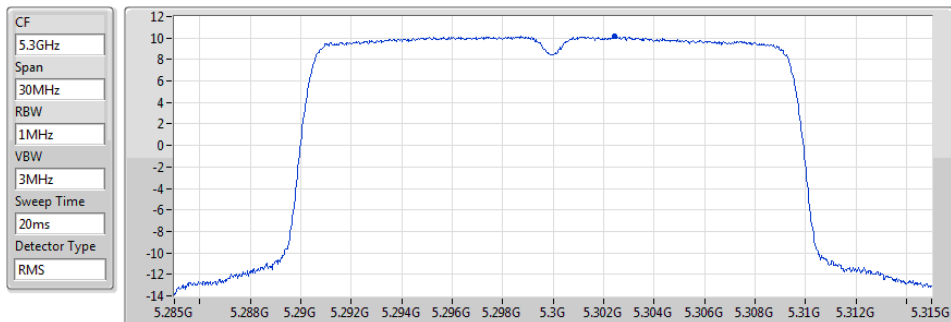
Sum	PD	Port 1
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
10.34	10.34	10.34

802.11ax HEW20_Nss1,(MCS0)_1TX

PSD

5300MHz

15/11/2018



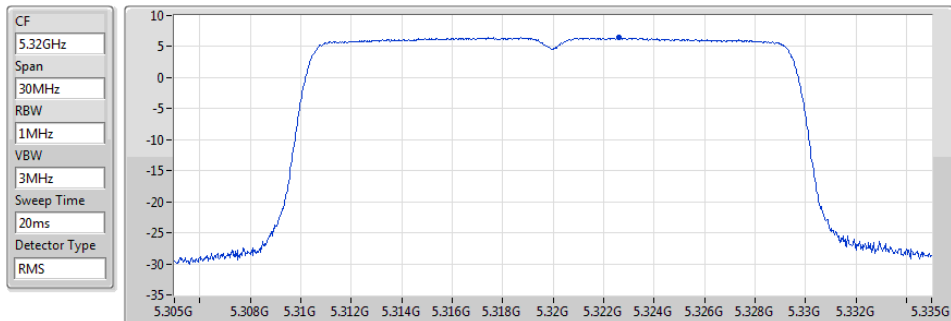
Sum	PD	Port 1
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
10.17	10.17	10.17

802.11ax HEW20_Nss1,(MCS0)_1TX

PSD

5320MHz

15/11/2018



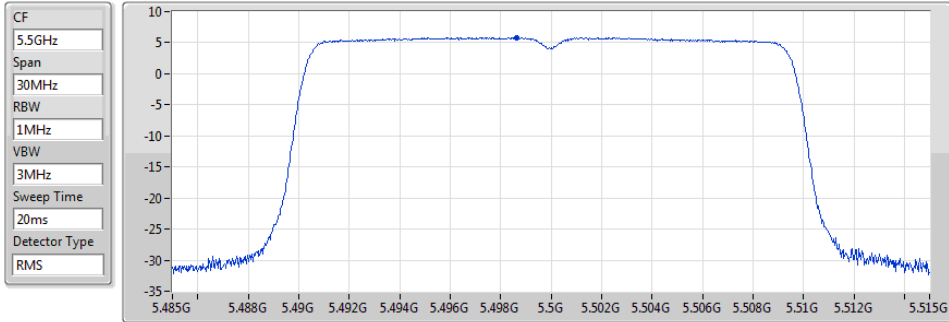
Sum	PD	Port 1
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
6.45	6.45	6.45

802.11ax HEW20_Nss1,(MCS0)_1TX

PSD

5500MHz

15/11/2018



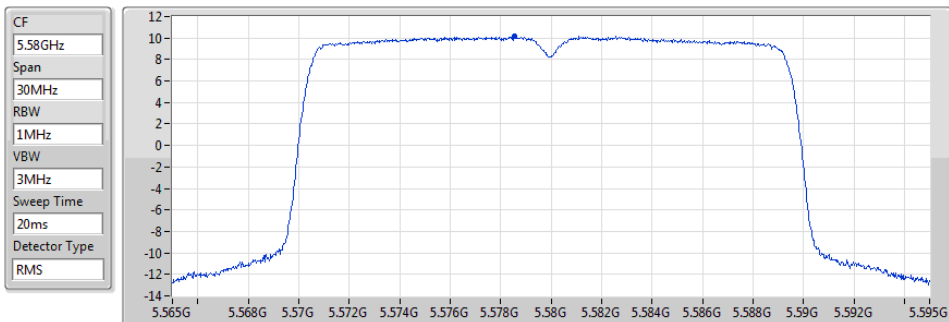
Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
5.86	5.86	5.86

802.11ax HEW20_Nss1,(MCS0)_1TX

PSD

5580MHz

15/11/2018



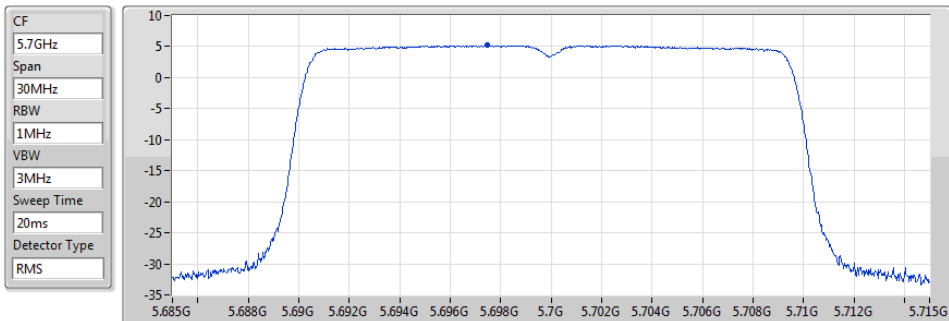
Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
10.14	10.14	10.14

802.11ax HEW20_Nss1,(MCS0)_1TX

PSD

5700MHz

15/11/2018



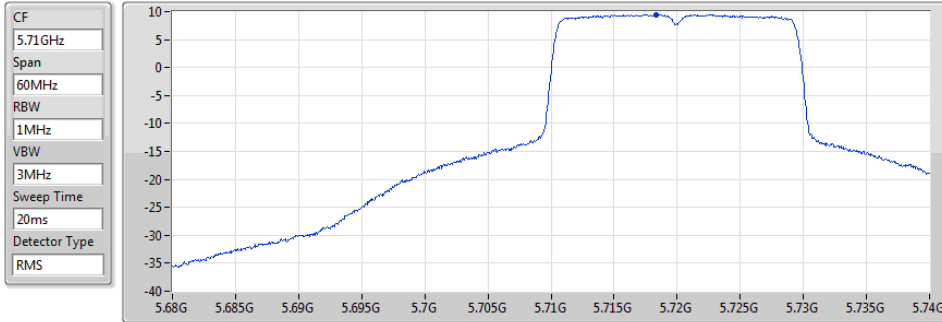
Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
5.19	5.19	5.19

802.11ax HEW20_Nss1,(MCS0)_1TX

PSD

5720MHz Straddle 5.47-5.725GHz

15/11/2018



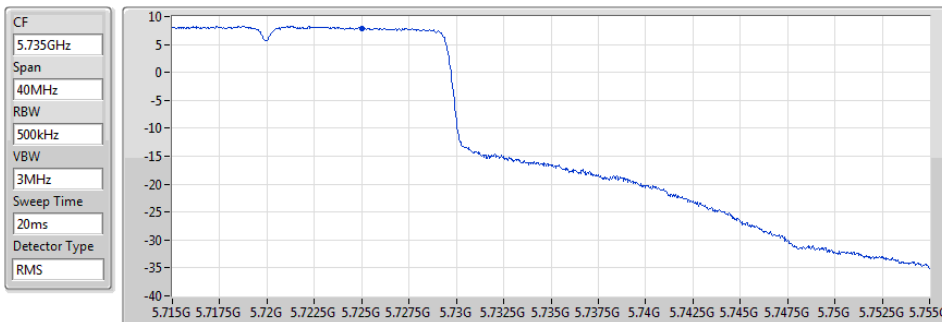
Sum	PD	Port 1
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
9.47	9.47	9.47

802.11ax HEW20_Nss1,(MCS0)_1TX

PSD

5720MHz Straddle 5.725-5.85GHz

15/11/2018



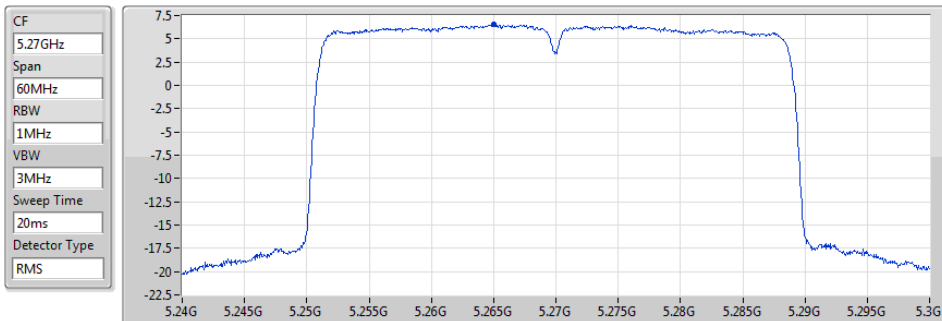
Sum	PD	Port 1
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
7.89	7.89	7.89

802.11ax HEW40_Nss1,(MCS0)_1TX

PSD

5270MHz

15/11/2018



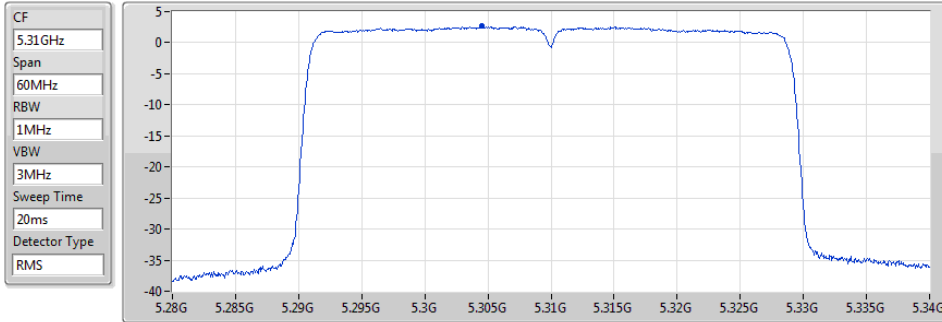
Sum	PD	Port 1
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
6.55	6.55	6.55

802.11ax HEW40_Nss1,(MCS0)_1TX

PSD

5310MHz

15/11/2018



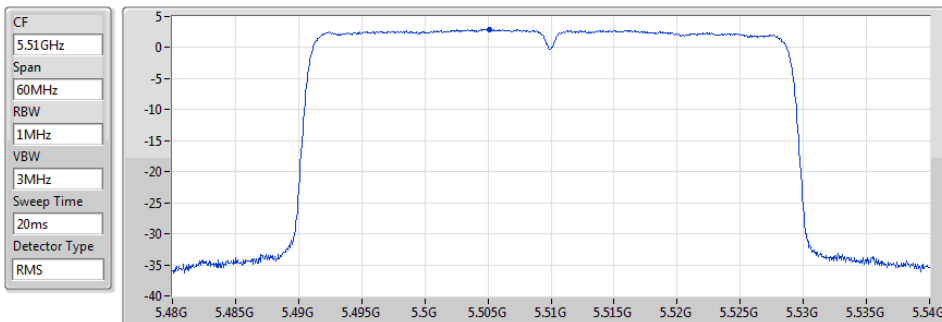
Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
2.63	2.63	2.63

802.11ax HEW40_Nss1,(MCS0)_1TX

PSD

5510MHz

15/11/2018



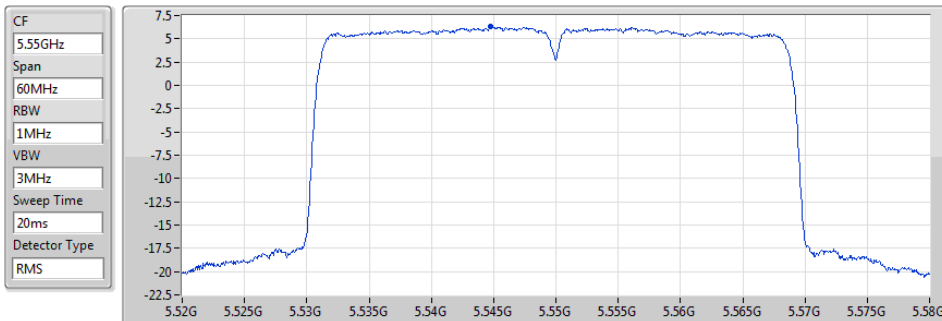
Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
2.94	2.94	2.94

802.11ax HEW40_Nss1,(MCS0)_1TX

PSD

5550MHz

15/11/2018



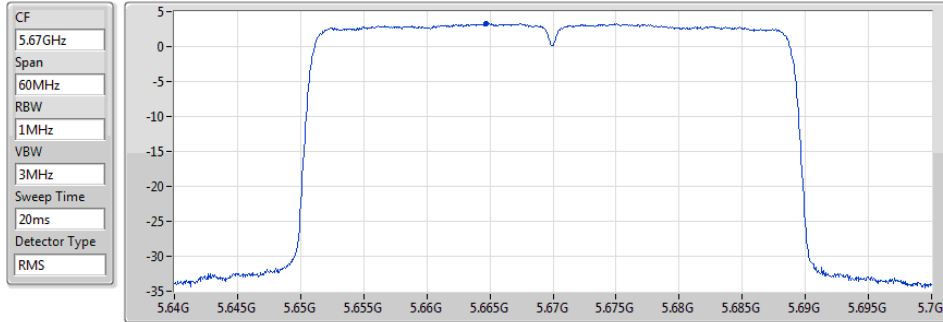
Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
6.27	6.27	6.27

802.11ax HEW40_Nss1,(MCS0)_1TX

PSD

5670MHz

15/11/2018



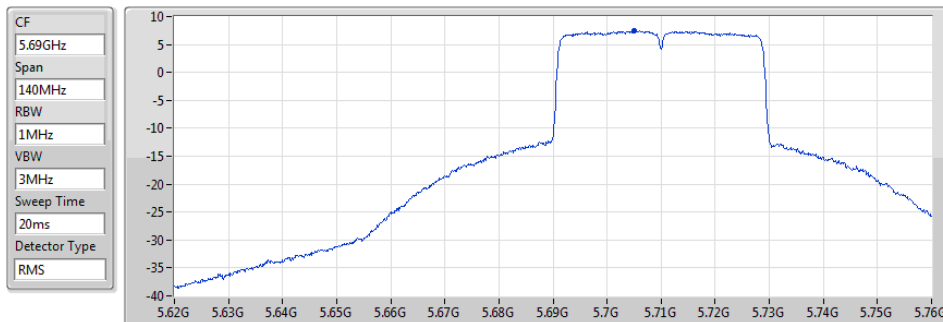
Sum	PD	Port 1
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
3.30	3.30	3.30

802.11ax HEW40_Nss1,(MCS0)_1TX

PSD

5710MHz Straddle 5.47-5.725GHz

15/11/2018



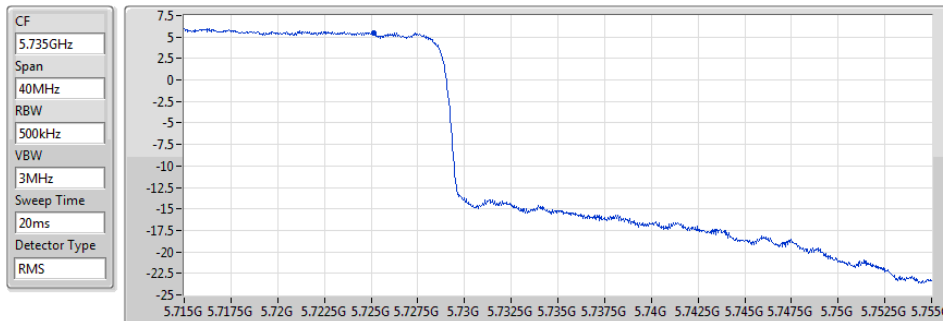
Sum	PD	Port 1
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
7.44	7.44	7.44

802.11ax HEW40_Nss1,(MCS0)_1TX

PSD

5710MHz Straddle 5.725-5.85GHz

15/11/2018



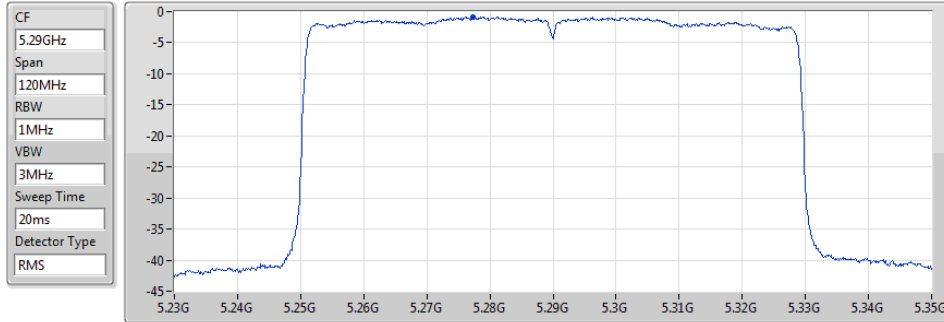
Sum	PD	Port 1
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
5.47	5.47	5.47

802.11ax HEW80_Nss1,(MCS0)_1TX

PSD

5290MHz

15/11/2018



Sum	PD	Port 1
(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)
-0.84	-0.84	-0.84

802.11ax HEW80_Nss1,(MCS0)_1TX

PSD

5530MHz

15/11/2018



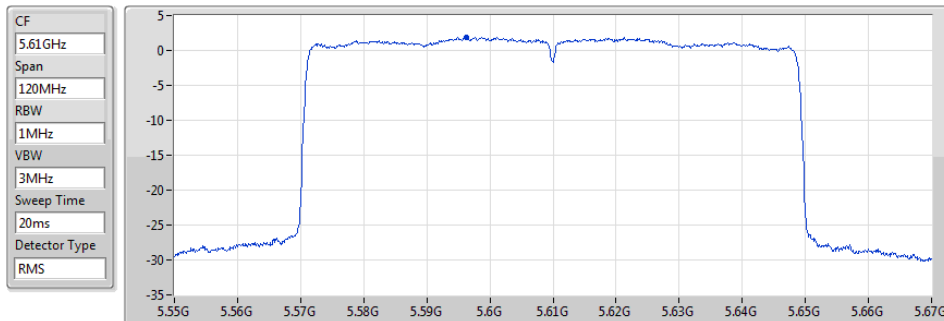
Sum	PD	Port 1
(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)
-1.03	-1.03	-1.03

802.11ax HEW80_Nss1,(MCS0)_1TX

PSD

5610MHz

15/11/2018



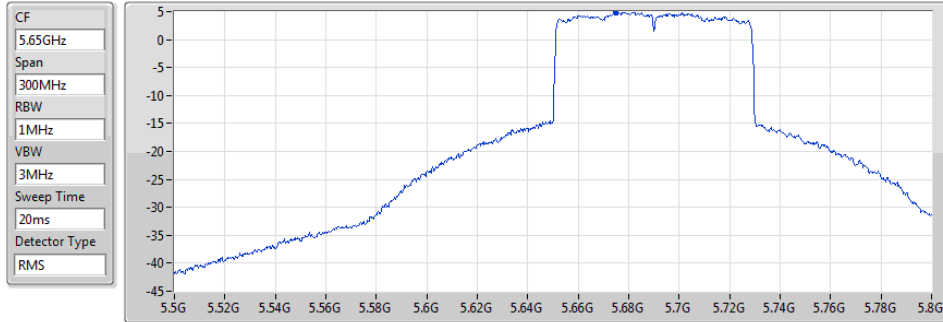
Sum	PD	Port 1
(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)
1.84	1.84	1.84

802.11ax HEW80_Nss1,(MCS0)_1TX

PSD

5690MHz Straddle 5.47-5.725GHz

15/11/2018



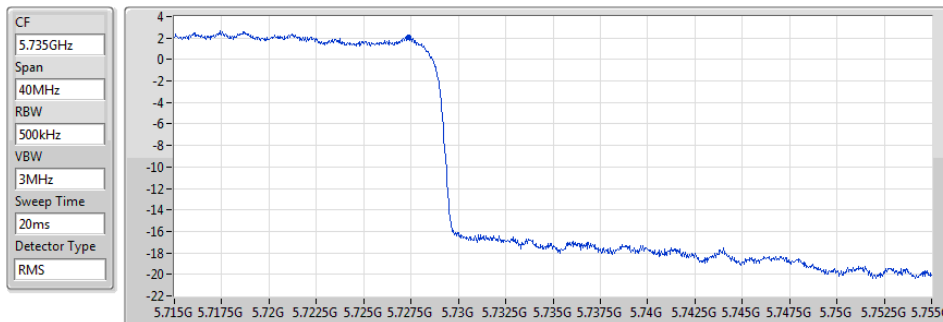
Sum	PD	Port 1
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
4.88	4.88	4.88

802.11ax HEW80_Nss1,(MCS0)_1TX

PSD

5690MHz Straddle 5.725-5.85GHz

15/11/2018



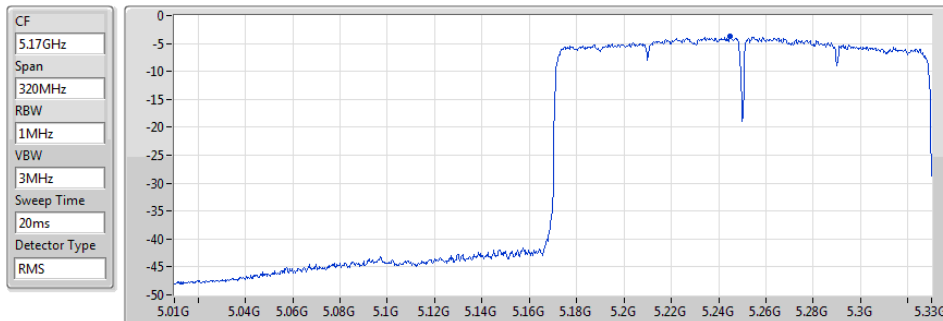
Sum	PD	Port 1
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
2.09	2.09	2.09

802.11ax HEW160_Nss1,(MCS0)_1TX

PSD

5250MHz Straddle 5.15-5.25GHz

15/11/2018



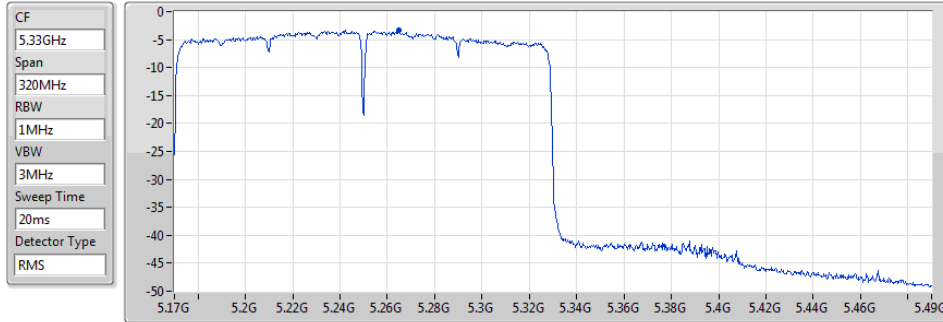
Sum	PD	Port 1
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
-3.80	-3.80	-3.80

802.11ax HEW160_Nss1,(MCS0)_1TX

PSD

5250MHz Straddle 5.25-5.35GHz

15/11/2018



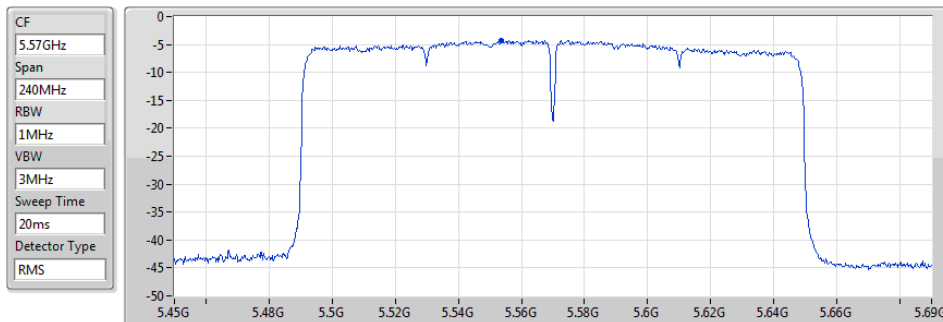
Sum	PD	Port1
(dBm/1MHz)	(dBm/1MHz)	(dBm/1MHz)
-3.40	-3.40	-3.40

802.11ax HEW160_Nss1,(MCS0)_1TX

PSD

5570MHz

15/11/2018



Sum	PD	Port1
(dBm/1MHz)	(dBm/1MHz)	(dBm/1MHz)
-4.24	-4.24	-4.24

Summary

Mode	PD (dBm/RBW)
5.15-5.25GHz	-
802.11ax HEW160_Nss2,(MCS0)_2TX	-4.57
5.25-5.35GHz	-
802.11ax HEW20_Nss2,(MCS0)_2TX	10.30
802.11ax HEW40_Nss2,(MCS0)_2TX	7.51
802.11ax HEW80_Nss2,(MCS0)_2TX	-0.19
802.11ax HEW160_Nss2,(MCS0)_2TX	-4.71
5.47-5.725GHz	-
802.11ax HEW20_Nss2,(MCS0)_2TX	10.88
802.11ax HEW40_Nss2,(MCS0)_2TX	7.61
802.11ax HEW80_Nss2,(MCS0)_2TX	4.86
802.11ax HEW160_Nss2,(MCS0)_2TX	-3.88
5.725-5.85GHz	-
802.11ax HEW20_Nss2,(MCS0)_2TX	9.36
802.11ax HEW40_Nss2,(MCS0)_2TX	5.83
802.11ax HEW80_Nss2,(MCS0)_2TX	2.12

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)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11ax HEW20_Nss2,(MCS0)_2TX	-	-	-	-	-	-
5260MHz	Pass	5.10	7.40	7.18	10.27	11.00
5300MHz	Pass	5.10	7.47	7.12	10.30	11.00
5320MHz	Pass	5.10	5.59	4.91	8.23	11.00
5500MHz	Pass	5.10	5.44	5.18	8.27	11.00
5580MHz	Pass	5.10	7.23	6.99	10.12	11.00
5700MHz	Pass	5.10	3.39	4.06	6.71	11.00
5720MHz Straddle 5.47-5.725GHz	Pass	5.10	7.73	8.08	10.88	11.00
5720MHz Straddle 5.725-5.85GHz	Pass	5.10	6.26	6.44	9.36	30.00
802.11ax HEW40_Nss2,(MCS0)_2TX	-	-	-	-	-	-
5270MHz	Pass	5.10	4.59	4.45	7.51	11.00
5310MHz	Pass	5.10	-0.16	-0.04	2.87	11.00
5510MHz	Pass	5.10	1.28	0.97	4.07	11.00
5550MHz	Pass	5.10	4.54	4.67	7.50	11.00
5670MHz	Pass	5.10	1.40	2.35	4.91	11.00
5710MHz Straddle 5.47-5.725GHz	Pass	5.10	4.30	5.00	7.61	11.00
5710MHz Straddle 5.725-5.85GHz	Pass	5.10	2.21	3.39	5.83	30.00
802.11ax HEW80_Nss2,(MCS0)_2TX	-	-	-	-	-	-
5290MHz	Pass	5.10	-2.55	-3.79	-0.19	11.00
5530MHz	Pass	5.10	-2.61	-2.75	0.23	11.00
5610MHz	Pass	5.10	0.73	0.46	3.49	11.00
5690MHz Straddle 5.47-5.725GHz	Pass	5.10	2.41	1.37	4.86	11.00
5690MHz Straddle 5.725-5.85GHz	Pass	5.10	-0.57	-0.95	2.12	30.00
802.11ax HEW160_Nss2,(MCS0)_2TX	-	-	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	5.10	-7.20	-7.63	-4.57	17.00
5250MHz Straddle 5.25-5.35GHz	Pass	5.10	-7.48	-7.87	-4.71	11.00
5570MHz	Pass	5.10	-6.85	-6.68	-3.88	11.00

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 Xpower density;

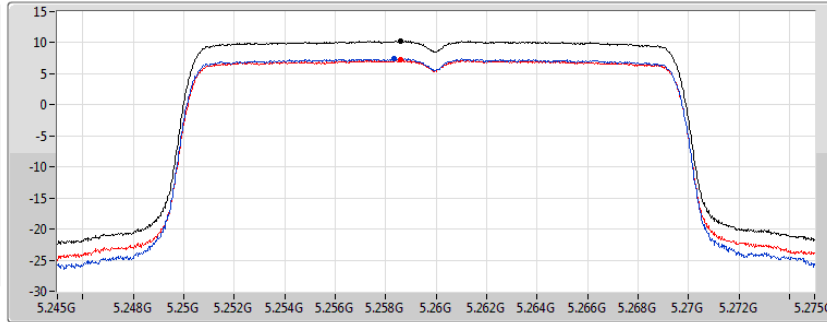
802.11ax HEW20_Nss2,(MCS0)_2TX

PSD

5260MHz

15/11/2018

CF
5.26GHz
Span
30MHz
RBW
1MHz
VBW
3MHz
Sweep Time
20ms
Detector Type
RMS



Sum
Port 1
Port 2

Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
10.27	10.27	7.40	7.18

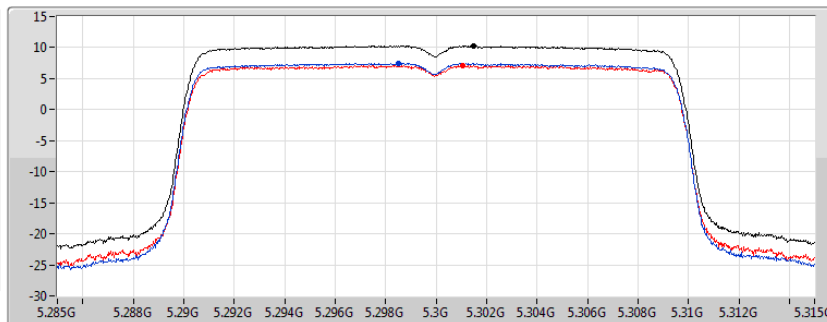
802.11ax HEW20_Nss2,(MCS0)_2TX

PSD

5300MHz

15/11/2018

CF
5.3GHz
Span
30MHz
RBW
1MHz
VBW
3MHz
Sweep Time
20ms
Detector Type
RMS



Sum
Port 1
Port 2

Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
10.30	10.30	7.47	7.12

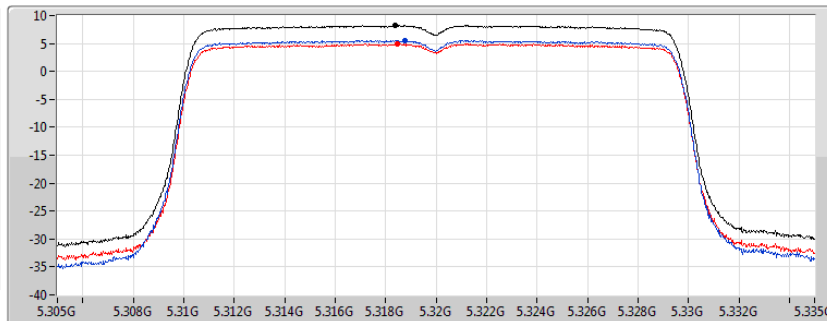
802.11ax HEW20_Nss2,(MCS0)_2TX

PSD

5320MHz

15/11/2018

CF
5.32GHz
Span
30MHz
RBW
1MHz
VBW
3MHz
Sweep Time
20ms
Detector Type
RMS



Sum
Port 1
Port 2

Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
8.23	8.23	5.59	4.91

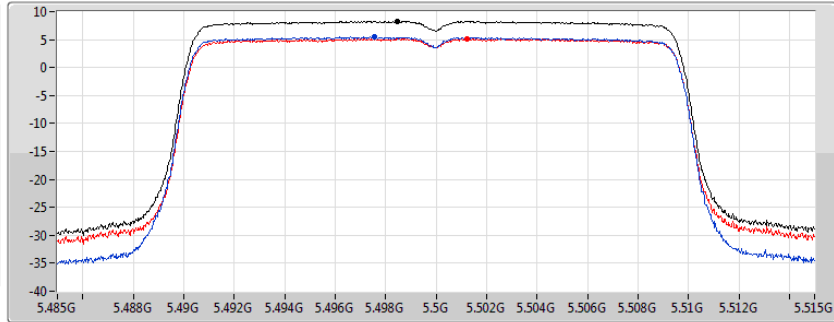
802.11ax HEW20_Nss2,(MCS0)_2TX

PSD

5500MHz

15/11/2018

CF
5.5GHz
Span
30MHz
RBW
1MHz
VBW
3MHz
Sweep Time
20ms
Detector Type
RMS



Sum
Port 1
Port 2

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
8.27	8.27	5.44	5.18

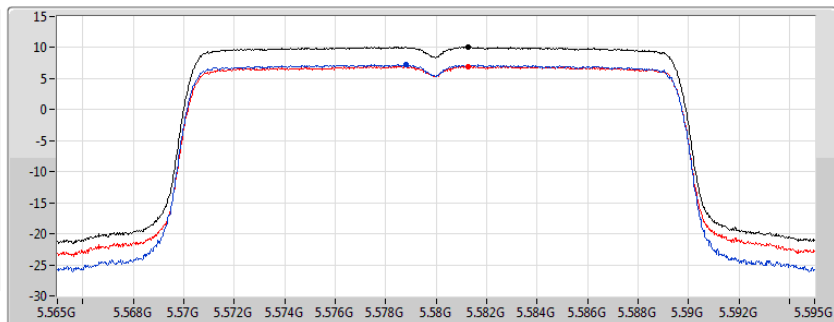
802.11ax HEW20_Nss2,(MCS0)_2TX

PSD

5580MHz

15/11/2018

CF
5.58GHz
Span
30MHz
RBW
1MHz
VBW
3MHz
Sweep Time
20ms
Detector Type
RMS



Sum
Port 1
Port 2

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
10.12	10.12	7.23	6.99

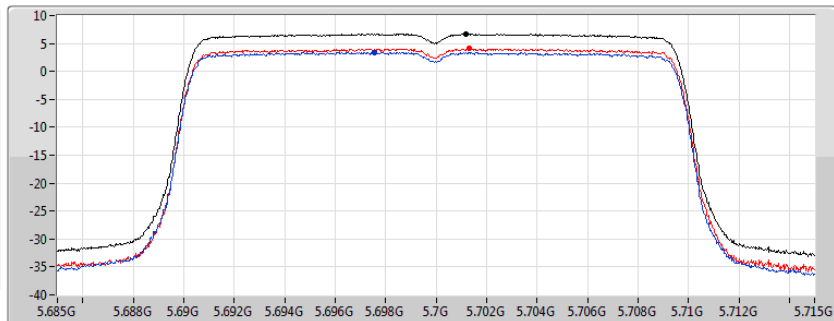
802.11ax HEW20_Nss2,(MCS0)_2TX

PSD

5700MHz

15/11/2018

CF
5.7GHz
Span
30MHz
RBW
1MHz
VBW
3MHz
Sweep Time
20ms
Detector Type
RMS



Sum
Port 1
Port 2

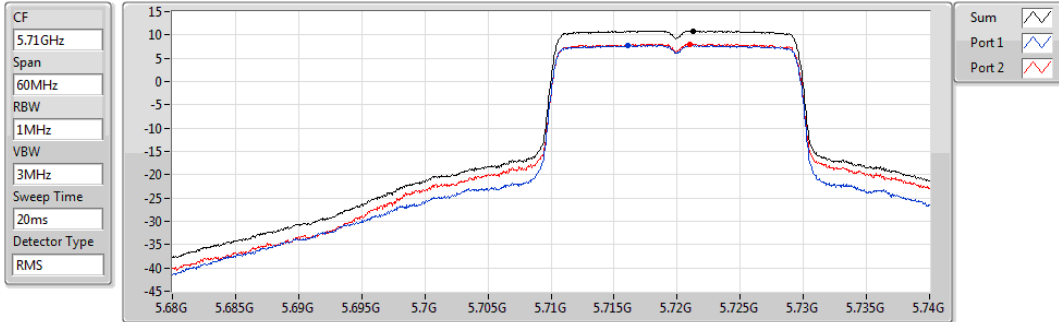
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
6.71	6.71	3.39	4.06

802.11ax HEW20_Nss2,(MCS0)_2TX

5720MHz Straddle 5.47-5.725GHz

PSD

15/11/2018



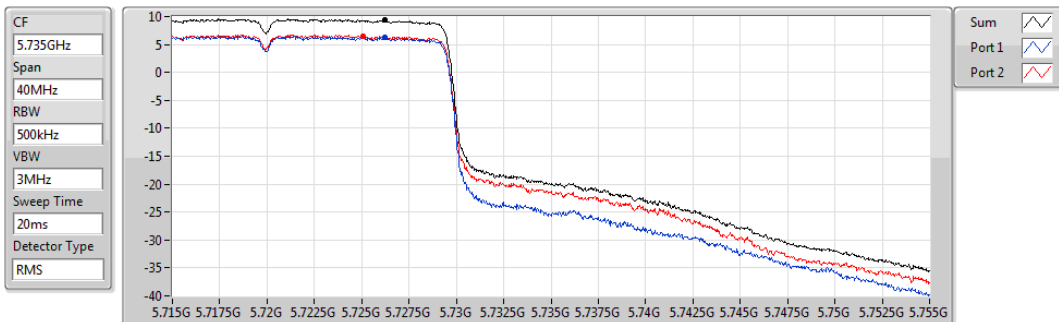
Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
10.88	10.88	7.73	8.08

802.11ax HEW20_Nss2,(MCS0)_2TX

5720MHz Straddle 5.725-5.85GHz

PSD

15/11/2018



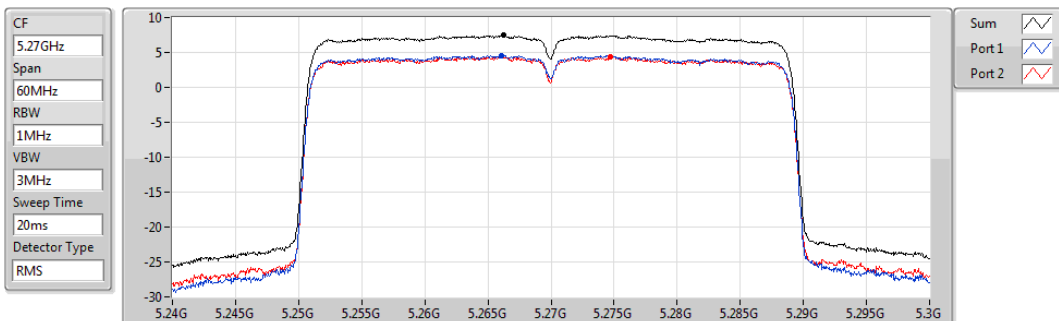
Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
9.36	9.36	6.26	6.44

802.11ax HEW40_Nss2,(MCS0)_2TX

5270MHz

PSD

15/11/2018



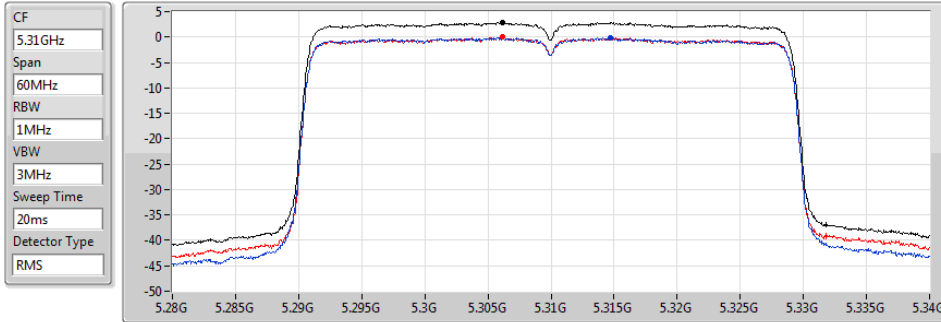
Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
7.51	7.51	4.59	4.45

802.11ax HEW40_Nss2,(MCS0)_2TX

PSD

5310MHz

15/11/2018



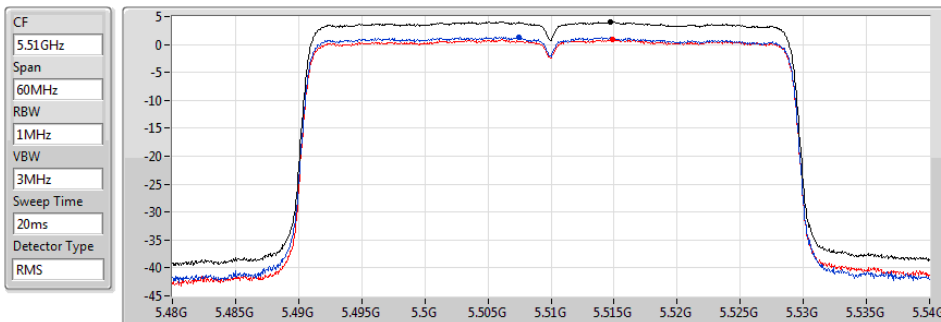
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
2.87	2.87	-0.16	-0.04

802.11ax HEW40_Nss2,(MCS0)_2TX

PSD

5510MHz

15/11/2018



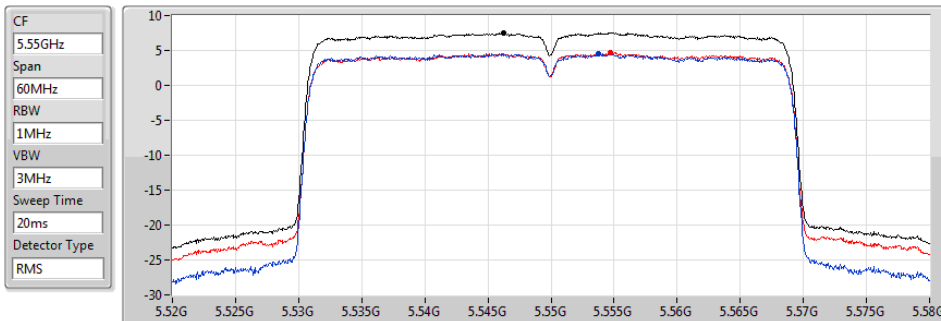
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
4.07	4.07	1.28	0.97

802.11ax HEW40_Nss2,(MCS0)_2TX

PSD

5550MHz

15/11/2018



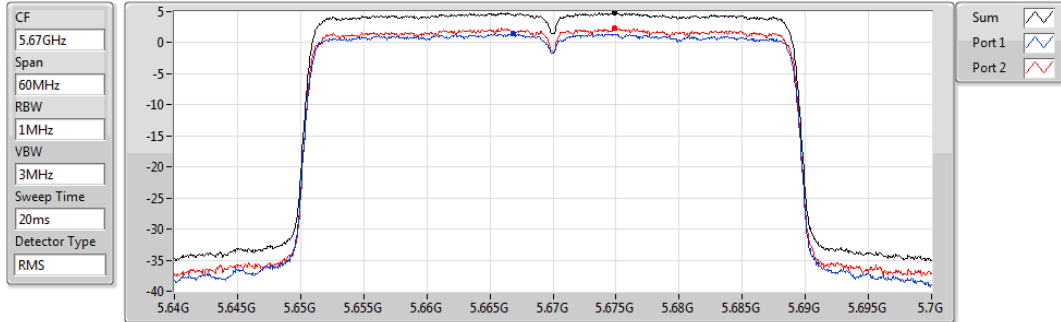
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
7.50	7.50	4.54	4.67

802.11ax HEW40_Nss2,(MCS0)_2TX

PSD

5670MHz

15/11/2018



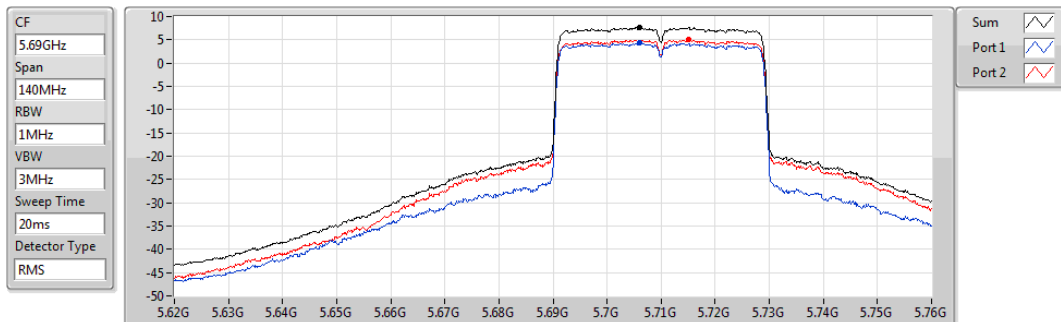
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
4.91	4.91	1.40	2.35

802.11ax HEW40_Nss2,(MCS0)_2TX

PSD

5710MHz Straddle 5.47-5.725GHz

15/11/2018



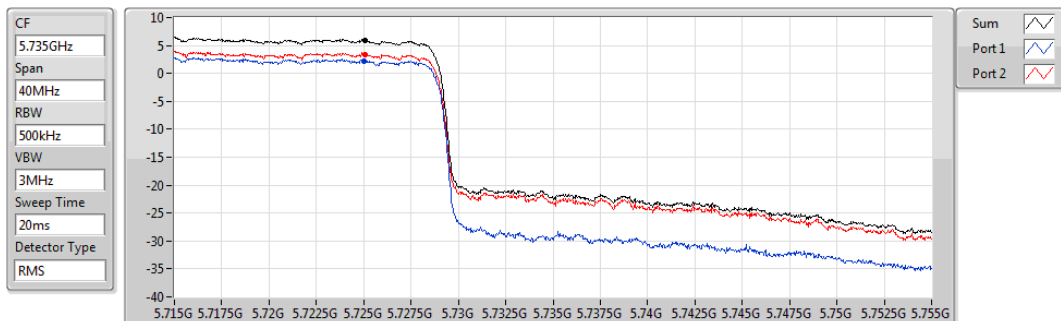
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
7.61	7.61	4.30	5.00

802.11ax HEW40_Nss2,(MCS0)_2TX

PSD

5710MHz Straddle 5.725-5.85GHz

15/11/2018



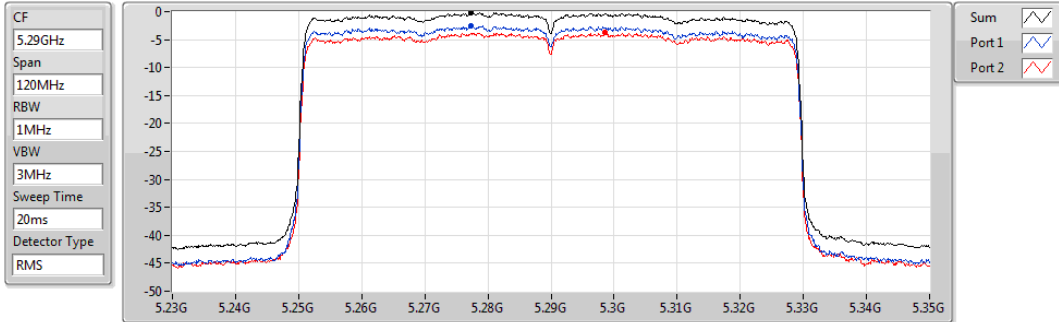
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
5.83	5.83	2.21	3.39

802.11ax HEW80_Nss2,(MCS0)_2TX

PSD

5290MHz

15/11/2018



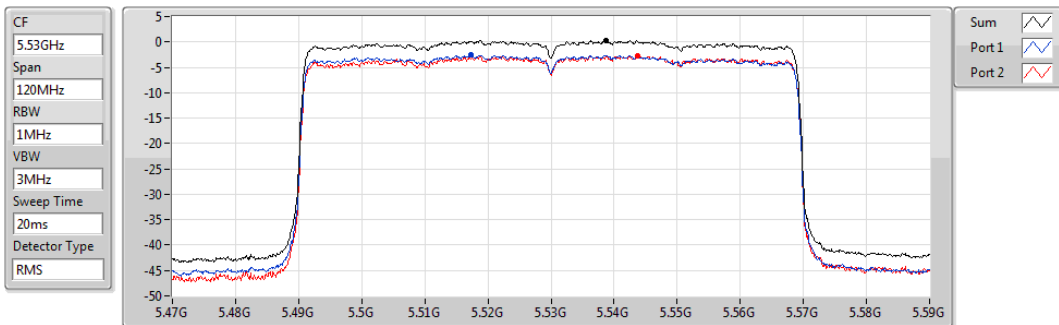
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-0.19	-0.19	-2.55	-3.79

802.11ax HEW80_Nss2,(MCS0)_2TX

PSD

5530MHz

15/11/2018



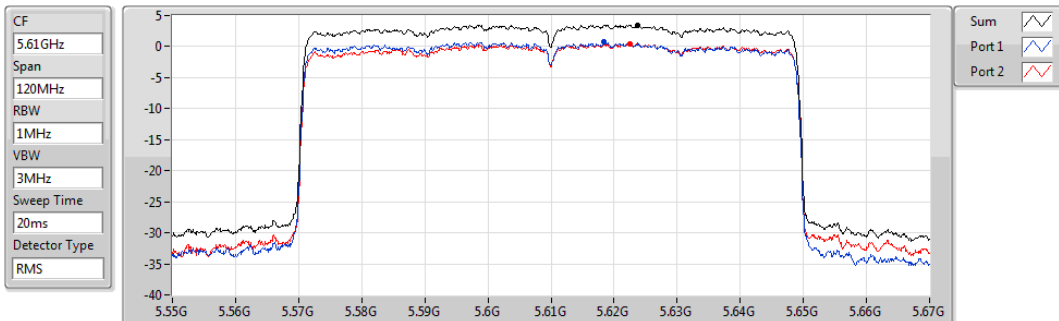
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
0.23	0.23	-2.61	-2.75

802.11ax HEW80_Nss2,(MCS0)_2TX

PSD

5610MHz

15/11/2018



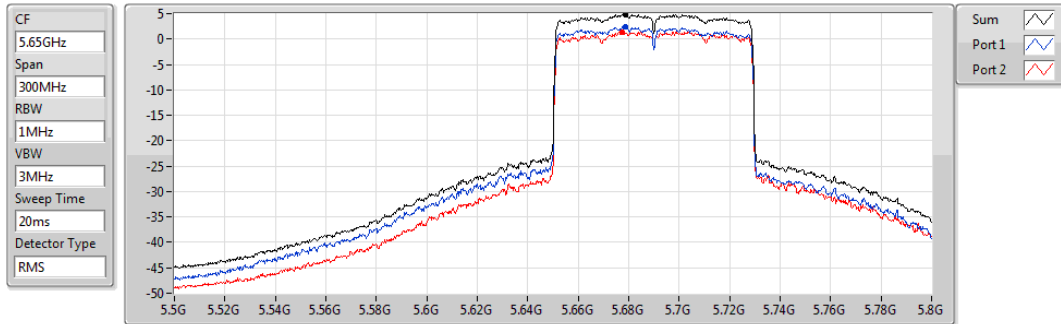
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
3.49	3.49	0.73	0.46

802.11ax HEW80_Nss2,(MCS0)_2TX

PSD

5690MHz Straddle 5.47-5.725GHz

15/11/2018



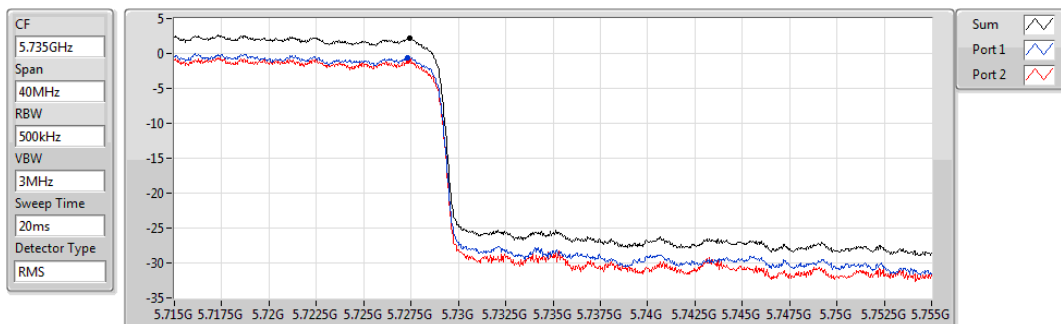
Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
4.86	4.86	2.41	1.37

802.11ax HEW80_Nss2,(MCS0)_2TX

PSD

5690MHz Straddle 5.725-5.85GHz

15/11/2018



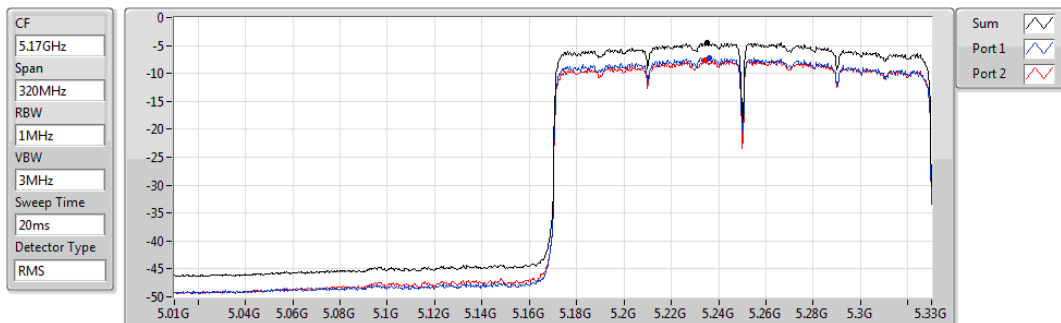
Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
2.12	2.12	-0.57	-0.95

802.11ax HEW160_Nss2,(MCS0)_2TX

PSD

5250MHz Straddle 5.15-5.25GHz

15/11/2018



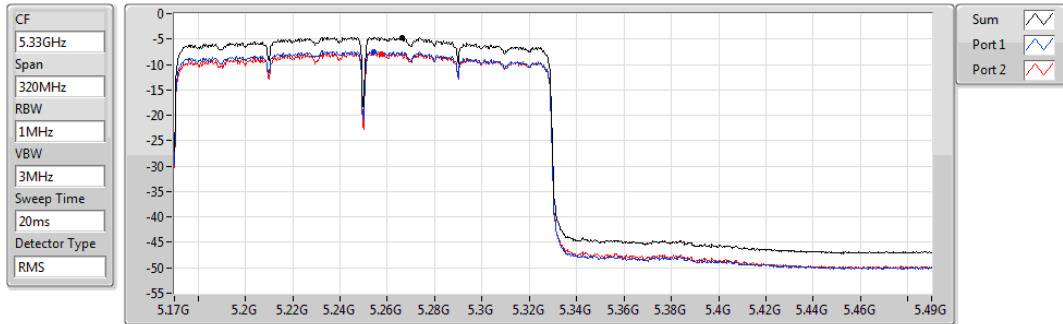
Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
-4.57	-4.57	-7.20	-7.63

802.11ax HEW160_Nss2,(MCS0)_2TX

PSD

5250MHz Straddle 5.25-5.35GHz

15/11/2018



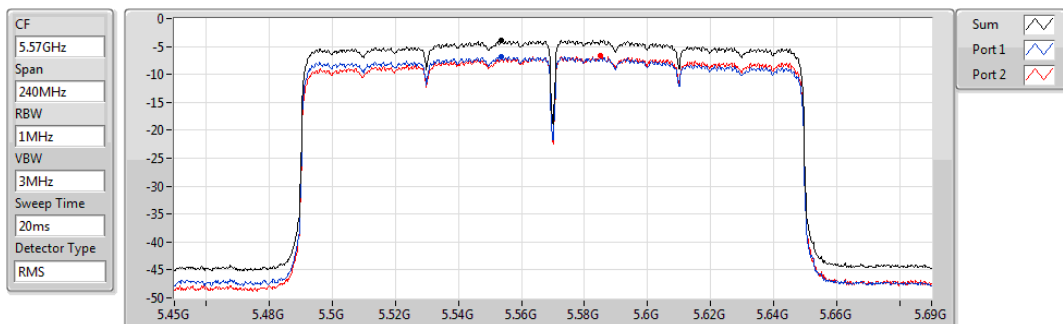
Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
-4.71	-4.71	-7.48	-7.87

802.11ax HEW160_Nss2,(MCS0)_2TX

PSD

5570MHz

15/11/2018



Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
-3.88	-3.88	-6.85	-6.68

Summary

Mode	PD (dBm/RBW)
5.25-5.35GHz	-
802.11a_Nss1,(6Mbps)_4TX	5.97
5.47-5.725GHz	-
802.11a_Nss1,(6Mbps)_4TX	5.99
5.725-5.85GHz	-
802.11a_Nss1,(6Mbps)_4TX	4.06

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)
802.11a_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-
5260MHz	Pass	10.97	-0.14	0.04	0.19	0.10	5.97	6.03
5300MHz	Pass	10.97	-0.10	-0.25	0.53	0.07	5.92	6.03
5320MHz	Pass	10.97	-0.36	-0.32	0.60	0.10	5.94	6.03
5500MHz	Pass	10.97	0.53	-0.27	-0.89	0.25	5.85	6.03
5580MHz	Pass	10.97	0.13	0.16	-0.71	0.51	5.99	6.03
5700MHz	Pass	10.97	0.12	0.12	-0.32	0.03	5.87	6.03
5720MHz Straddle 5.47-5.725GHz	Pass	10.97	-0.01	-0.06	-0.18	-0.02	5.84	6.03
5720MHz Straddle 5.725-5.85GHz	Pass	10.97	-2.05	-1.87	-1.89	-1.83	4.06	25.03

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

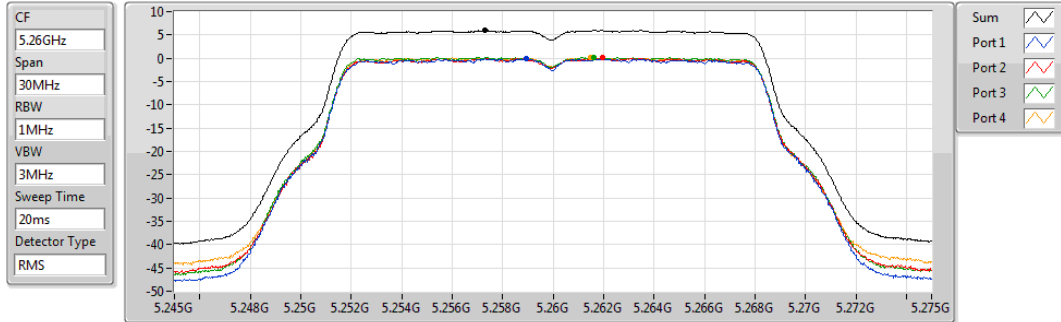
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; **Port X** = Port Xpower density;

802.11a_Nss1,(6Mbps)_4TX

PSD

5260MHz

15/11/2018



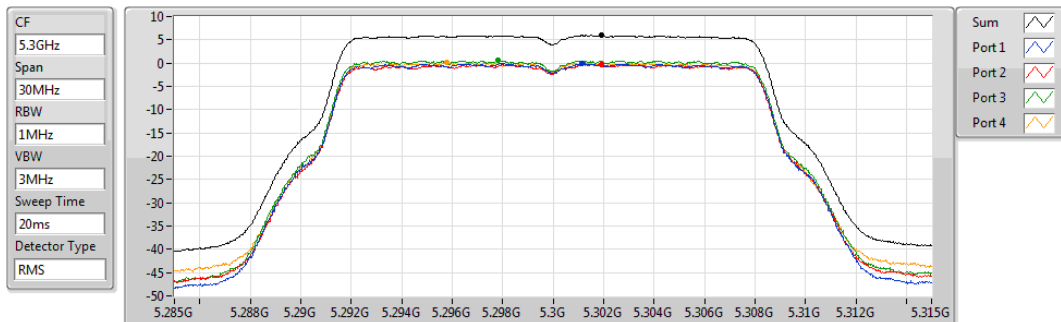
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
5.97	5.97	-0.14	0.04	0.19	0.10

802.11a_Nss1,(6Mbps)_4TX

PSD

5300MHz

15/11/2018



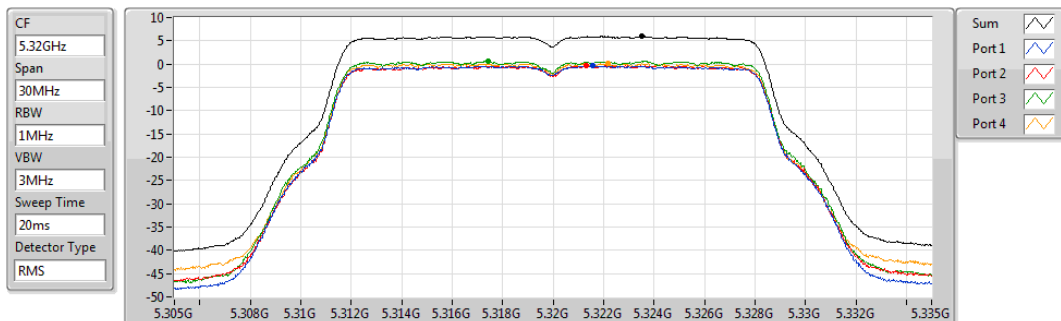
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
5.92	5.92	-0.10	-0.25	0.53	0.07

802.11a_Nss1,(6Mbps)_4TX

PSD

5320MHz

15/11/2018



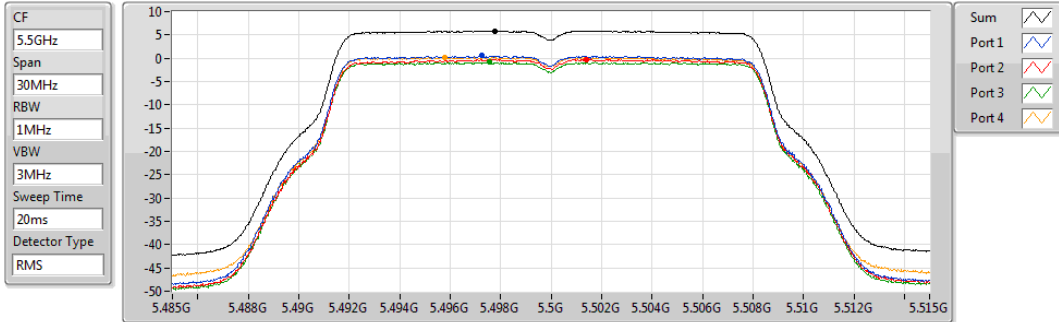
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
5.94	5.94	-0.36	-0.32	0.60	0.10

802.11a_Nss1,(6Mbps)_4TX

PSD

5500MHz

15/11/2018



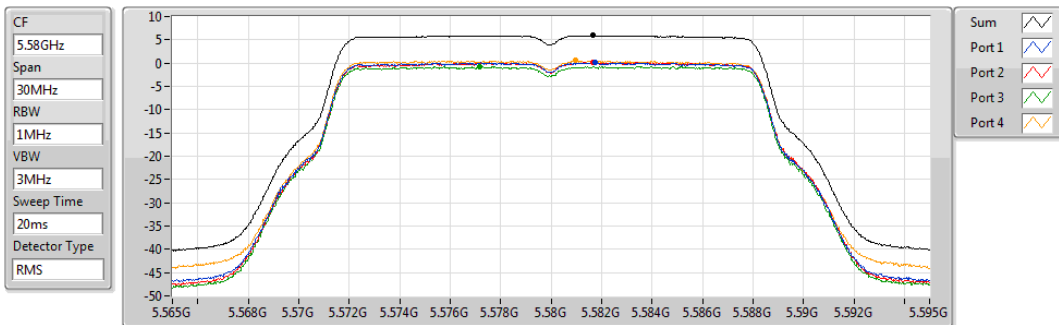
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
5.85	5.85	0.53	-0.27	-0.89	0.25

802.11a_Nss1,(6Mbps)_4TX

PSD

5580MHz

15/11/2018



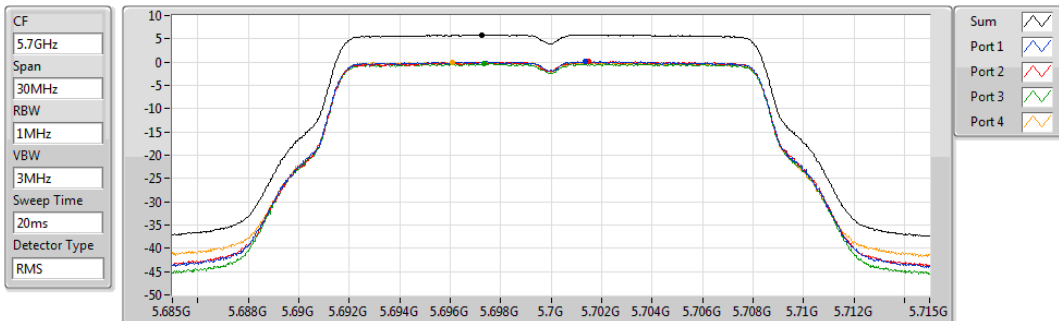
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
5.99	5.99	0.13	0.16	-0.71	0.51

802.11a_Nss1,(6Mbps)_4TX

PSD

5700MHz

15/11/2018

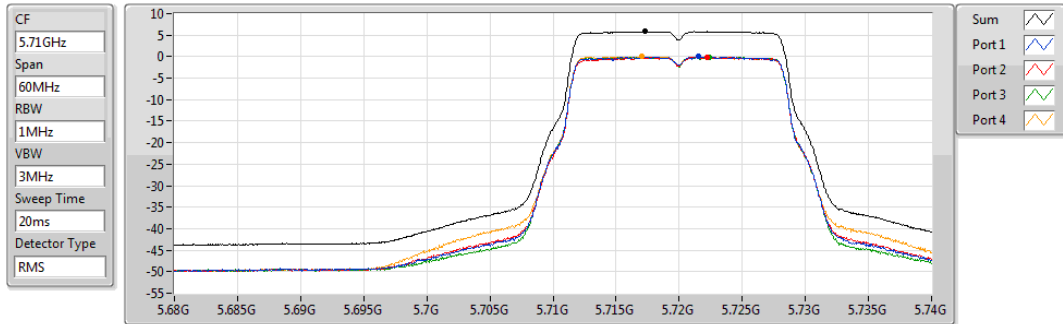


Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
5.87	5.87	0.12	0.12	-0.32	0.03

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

PSD

15/11/2018

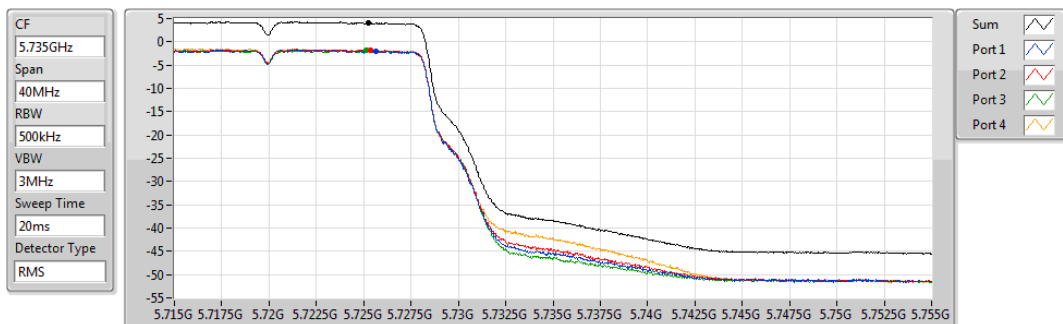


Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
5.84	5.84	-0.01	-0.06	-0.18	-0.02

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

PSD

15/11/2018



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
4.06	4.06	-2.05	-1.87	-1.89	-1.83

Summary

Mode	PD (dBm/RBW)
5.15-5.25GHz	-
802.11ax HEW160_Nss1,(MCS0)_4TX	-5.26
5.25-5.35GHz	-
802.11ax HEW20_Nss1,(MCS0)_4TX	5.97
802.11ax HEW40_Nss1,(MCS0)_4TX	5.78
802.11ax HEW80_Nss1,(MCS0)_4TX	-0.69
802.11ax HEW160_Nss1,(MCS0)_4TX	-4.67
5.47-5.725GHz	-
802.11ax HEW20_Nss1,(MCS0)_4TX	6.00
802.11ax HEW40_Nss1,(MCS0)_4TX	6.01
802.11ax HEW80_Nss1,(MCS0)_4TX	4.63
802.11ax HEW160_Nss1,(MCS0)_4TX	-4.58
5.725-5.85GHz	-
802.11ax HEW20_Nss1,(MCS0)_4TX	4.43
802.11ax HEW40_Nss1,(MCS0)_4TX	3.79
802.11ax HEW80_Nss1,(MCS0)_4TX	1.74

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)
802.11ax HEW20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5260MHz	Pass	10.97	-0.26	-0.05	0.32	0.04	5.97	6.03
5300MHz	Pass	10.97	-0.45	-0.23	0.36	-0.18	5.84	6.03
5320MHz	Pass	10.97	-0.13	-0.61	0.35	-0.28	5.78	6.03
5500MHz	Pass	10.97	0.61	-0.11	-0.78	0.37	6.00	6.03
5580MHz	Pass	10.97	0.30	0.10	-0.57	0.33	6.00	6.03
5700MHz	Pass	10.97	-0.22	0.09	0.00	-0.23	5.87	6.03
5720MHz Straddle 5.47-5.725GHz	Pass	10.97	0.04	-0.14	0.25	-0.09	5.96	6.03
5720MHz Straddle 5.725-5.85GHz	Pass	10.97	-1.44	-1.59	-1.38	-1.71	4.43	25.03
802.11ax HEW40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5270MHz	Pass	10.97	-0.33	-0.36	-0.29	0.33	5.78	6.03
5310MHz	Pass	10.97	-2.73	-2.82	-2.52	-2.09	3.41	6.03
5510MHz	Pass	10.97	-1.82	-2.02	-3.22	-1.80	3.77	6.03
5550MHz	Pass	10.97	0.39	-0.25	-0.10	0.18	6.01	6.03
5670MHz	Pass	10.97	-0.08	0.34	-0.23	-0.01	5.98	6.03
5710MHz Straddle 5.47-5.725GHz	Pass	10.97	-0.40	0.43	-0.49	-0.12	5.82	6.03
5710MHz Straddle 5.725-5.85GHz	Pass	10.97	-2.49	-1.46	-2.45	-2.42	3.79	25.03
802.11ax HEW80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5290MHz	Pass	10.97	-6.75	-7.15	-6.48	-6.12	-0.69	6.03
5530MHz	Pass	10.97	-5.25	-5.20	-5.76	-5.19	0.54	6.03
5610MHz	Pass	10.97	-1.45	-1.57	-1.65	-1.89	4.26	6.03
5690MHz Straddle 5.47-5.725GHz	Pass	10.97	-1.31	-1.22	-1.12	-1.65	4.63	6.03
5690MHz Straddle 5.725-5.85GHz	Pass	10.97	-4.46	-4.06	-3.76	-4.46	1.74	25.03
802.11ax HEW160_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	10.97	-11.25	-11.30	-10.92	-11.13	-5.26	12.03
5250MHz Straddle 5.25-5.35GHz	Pass	10.97	-10.35	-10.88	-10.50	-10.74	-4.67	6.03
5570MHz	Pass	10.97	-10.32	-10.52	-10.99	-10.34	-4.58	6.03

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

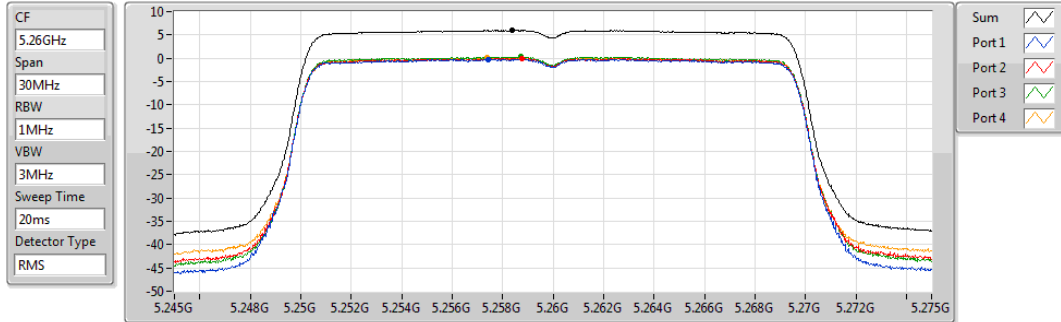
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; **Port X** = Port Xpower density;

802.11ax HEW20_Nss1,(MCS0)_4TX

PSD

5260MHz

15/11/2018



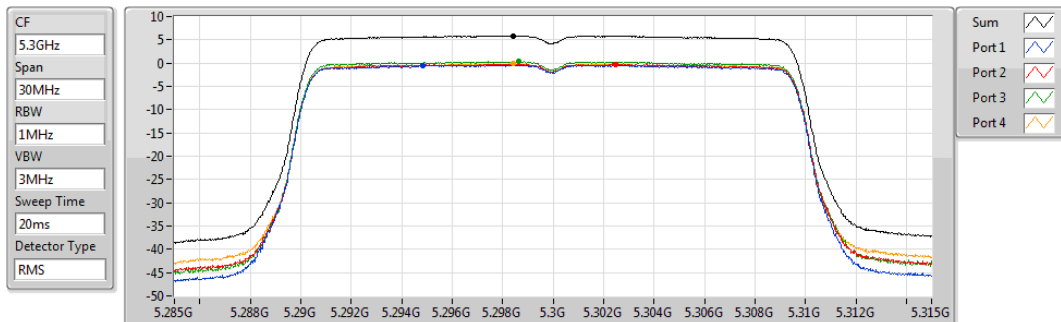
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
5.97	5.97	-0.26	-0.05	0.32	0.04

802.11ax HEW20_Nss1,(MCS0)_4TX

PSD

5300MHz

15/11/2018



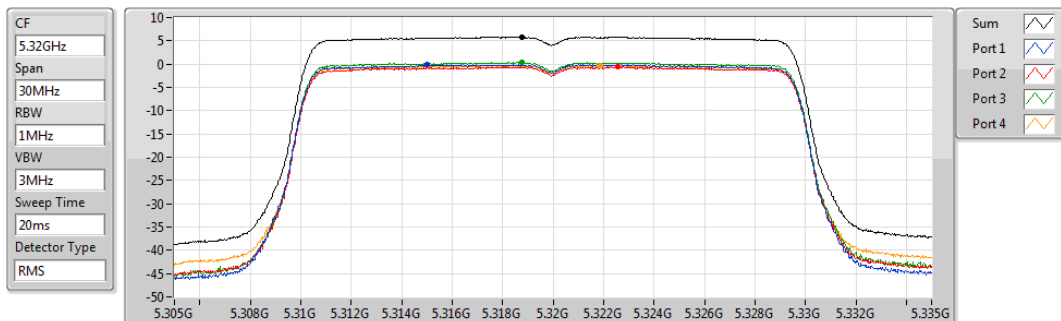
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
5.84	5.84	-0.45	-0.23	0.36	-0.18

802.11ax HEW20_Nss1,(MCS0)_4TX

PSD

5320MHz

15/11/2018



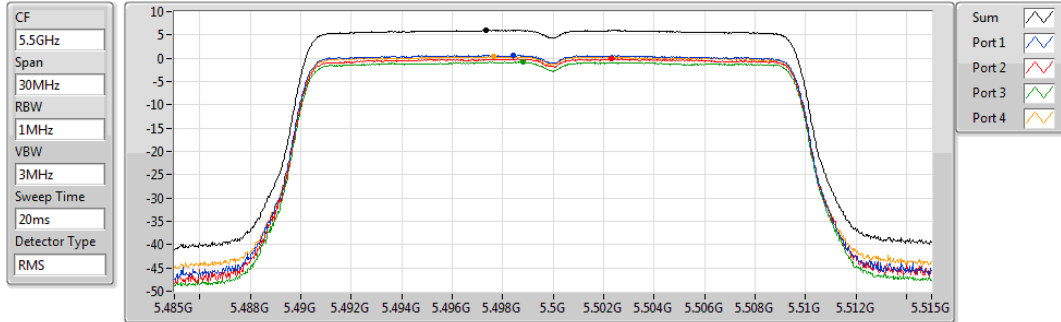
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
5.78	5.78	-0.13	-0.61	0.35	-0.28

802.11ax HEW20_Nss1,(MCS0)_4TX

PSD

5500MHz

15/11/2018



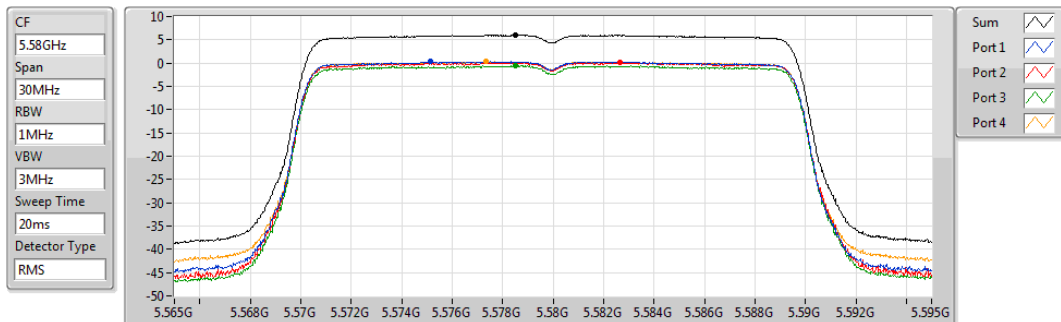
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
6.00	6.00	0.61	-0.11	-0.78	0.37

802.11ax HEW20_Nss1,(MCS0)_4TX

PSD

5580MHz

15/11/2018



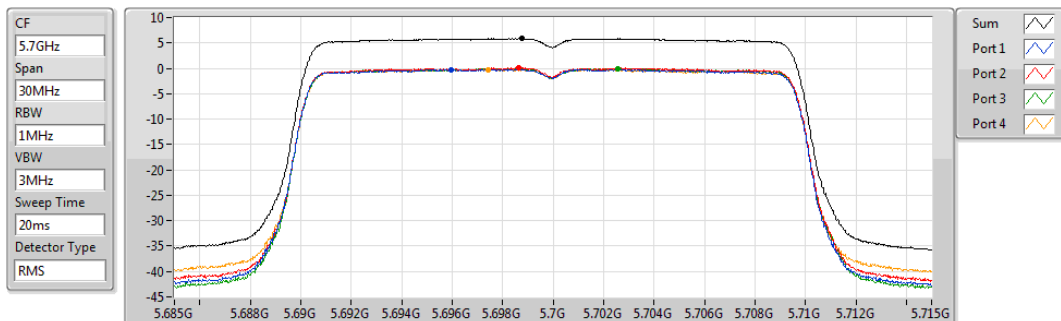
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
6.00	6.00	0.30	0.10	-0.57	0.33

802.11ax HEW20_Nss1,(MCS0)_4TX

PSD

5700MHz

15/11/2018



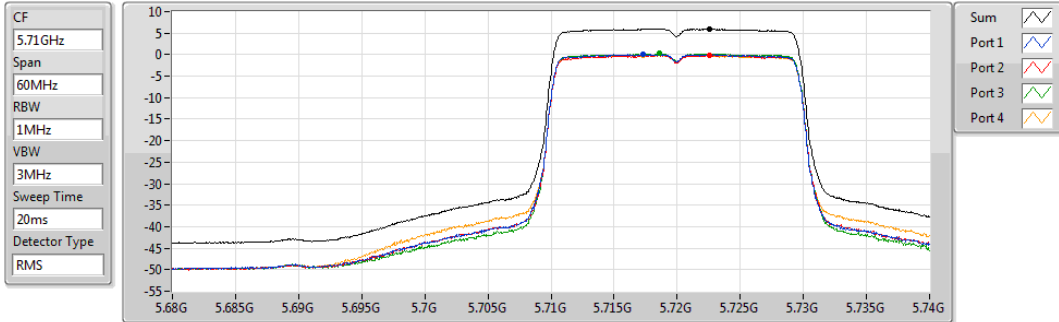
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
5.87	5.87	-0.22	0.09	0.00	-0.23

802.11ax HEW20_Nss1,(MCS0)_4TX

5720MHz Straddle 5.47-5.725GHz

PSD

15/11/2018



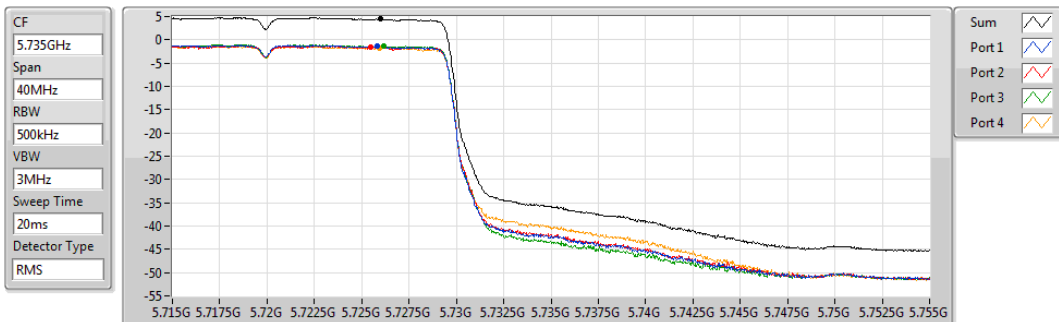
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
5.96	5.96	0.04	-0.14	0.25	-0.09

802.11ax HEW20_Nss1,(MCS0)_4TX

5720MHz Straddle 5.725-5.85GHz

PSD

15/11/2018



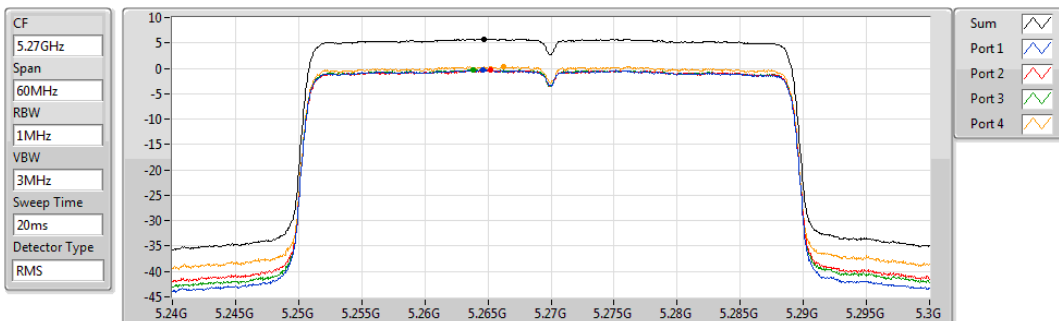
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
4.43	4.43	-1.44	-1.59	-1.38	-1.71

802.11ax HEW40_Nss1,(MCS0)_4TX

5270MHz

PSD

15/11/2018



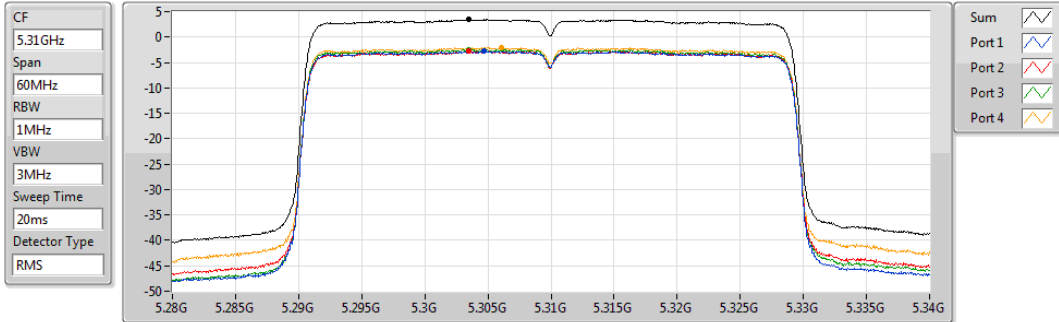
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
5.78	5.78	-0.33	-0.36	-0.29	0.33

802.11ax HEW40_Nss1,(MCS0)_4TX

PSD

5310MHz

15/11/2018



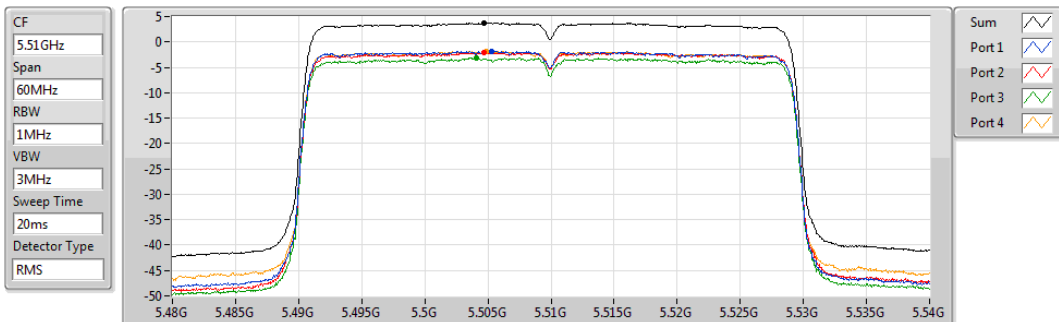
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
3.41	3.41	-2.73	-2.82	-2.52	-2.09

802.11ax HEW40_Nss1,(MCS0)_4TX

PSD

5510MHz

15/11/2018



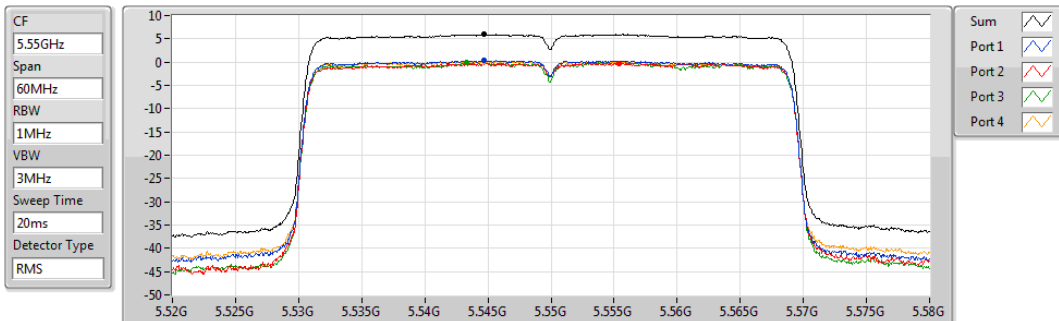
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
3.77	3.77	-1.82	-2.02	-3.22	-1.80

802.11ax HEW40_Nss1,(MCS0)_4TX

PSD

5550MHz

15/11/2018



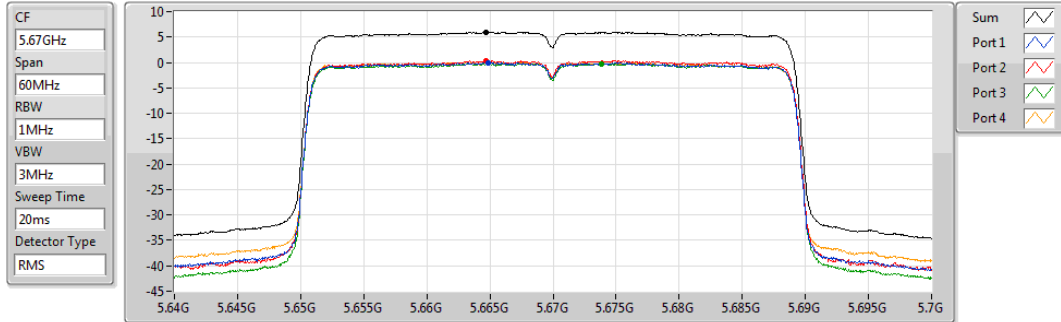
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
6.01	6.01	0.39	-0.25	-0.10	0.18

802.11ax HEW40_Nss1,(MCS0)_4TX

PSD

5670MHz

15/11/2018



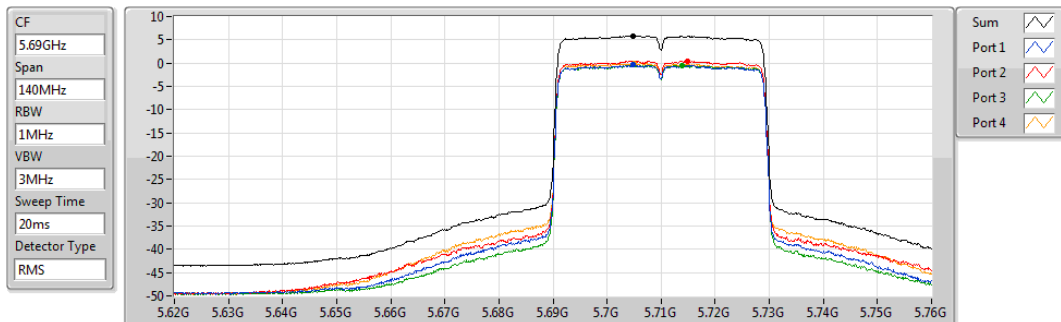
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)
5.98	5.98	-0.08	0.34	-0.23	-0.01

802.11ax HEW40_Nss1,(MCS0)_4TX

PSD

5710MHz Straddle 5.47-5.725GHz

15/11/2018



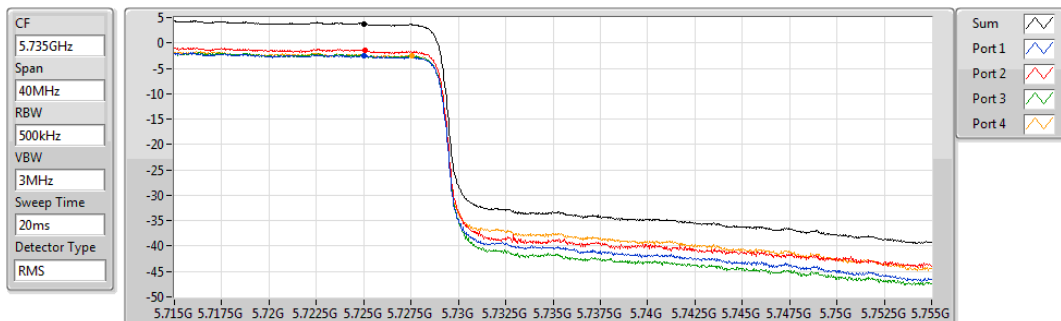
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)
5.82	5.82	-0.40	0.43	-0.49	-0.12

802.11ax HEW40_Nss1,(MCS0)_4TX

PSD

5710MHz Straddle 5.725-5.85GHz

15/11/2018



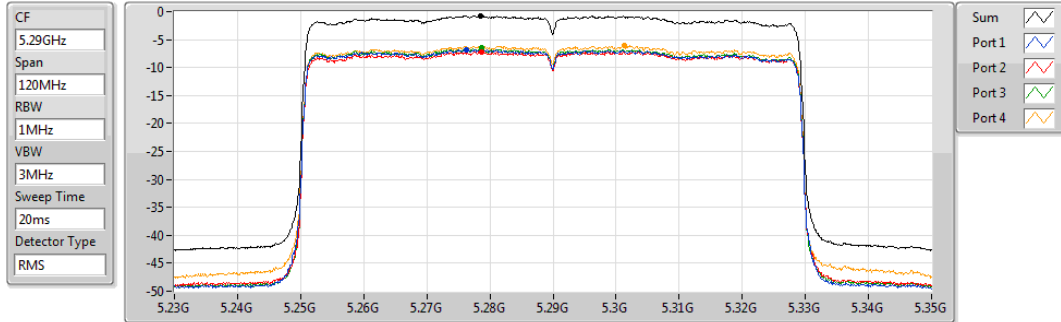
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)
3.79	3.79	-2.49	-1.46	-2.45	-2.42

802.11ax HEW80_Nss1,(MCS0)_4TX

PSD

5290MHz

15/11/2018



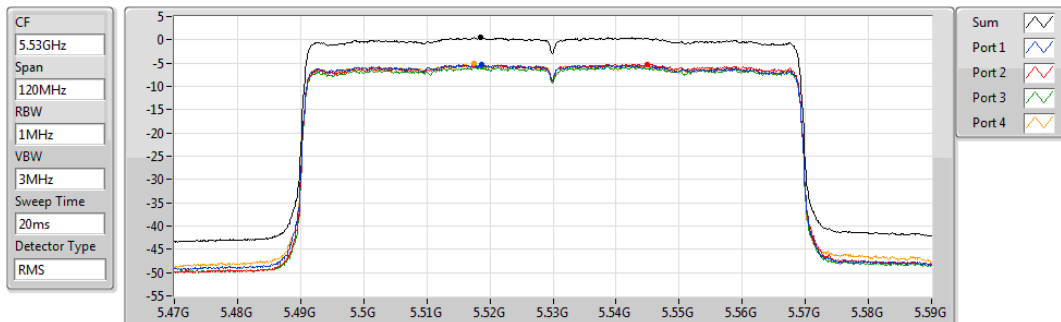
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)
-0.69	-0.69	-6.75	-7.15	-6.48	-6.12

802.11ax HEW80_Nss1,(MCS0)_4TX

PSD

5530MHz

15/11/2018



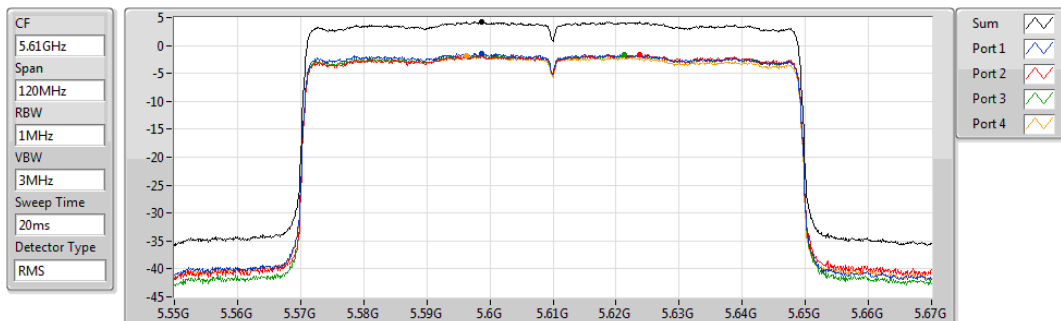
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)
0.54	0.54	-5.25	-5.20	-5.76	-5.19

802.11ax HEW80_Nss1,(MCS0)_4TX

PSD

5610MHz

15/11/2018



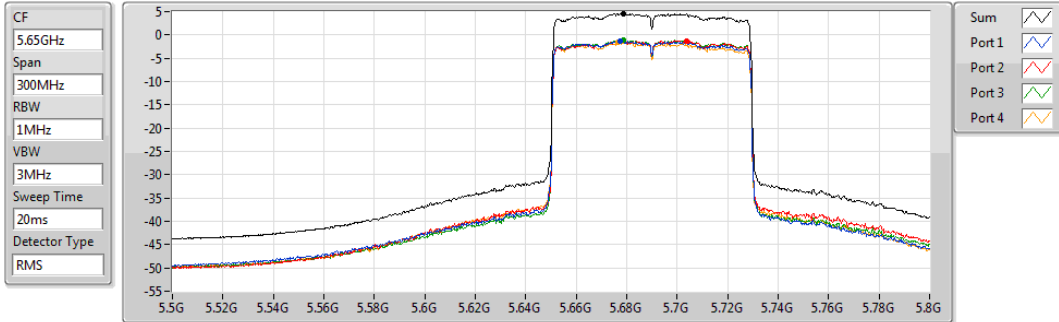
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)
4.26	4.26	-1.45	-1.57	-1.65	-1.89

802.11ax HEW80_Nss1,(MCS0)_4TX

PSD

5690MHz Straddle 5.47-5.725GHz

15/11/2018



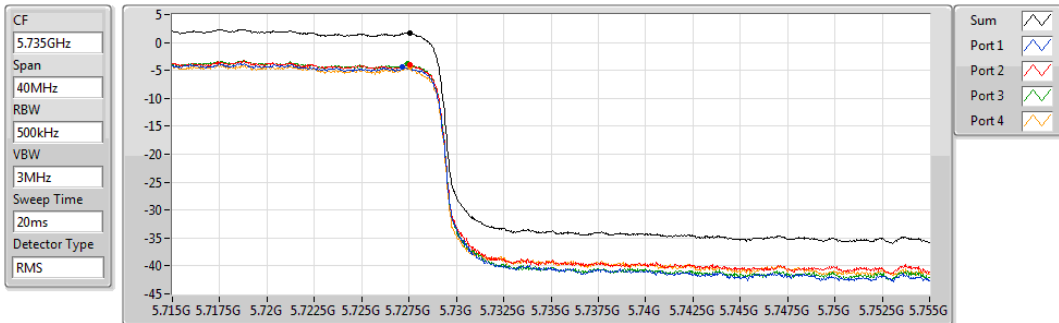
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
4.63	4.63	-1.31	-1.22	-1.12	-1.65

802.11ax HEW80_Nss1,(MCS0)_4TX

PSD

5690MHz Straddle 5.725-5.85GHz

15/11/2018



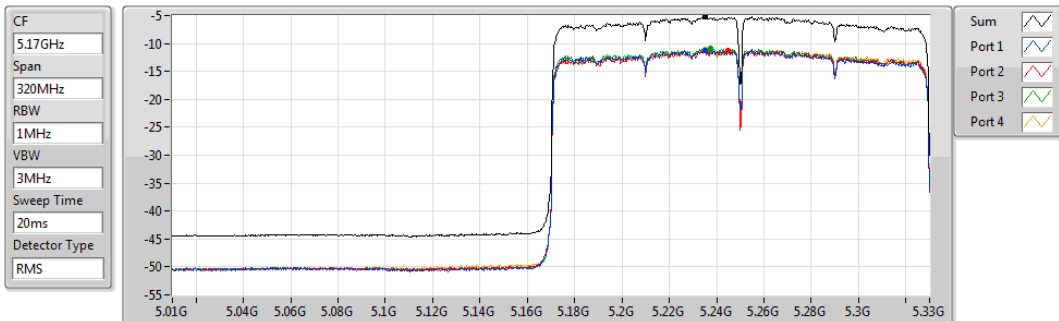
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
1.74	1.74	-4.46	-4.06	-3.76	-4.46

802.11ax HEW160_Nss1,(MCS0)_4TX

PSD

5250MHz Straddle 5.15-5.25GHz

15/11/2018



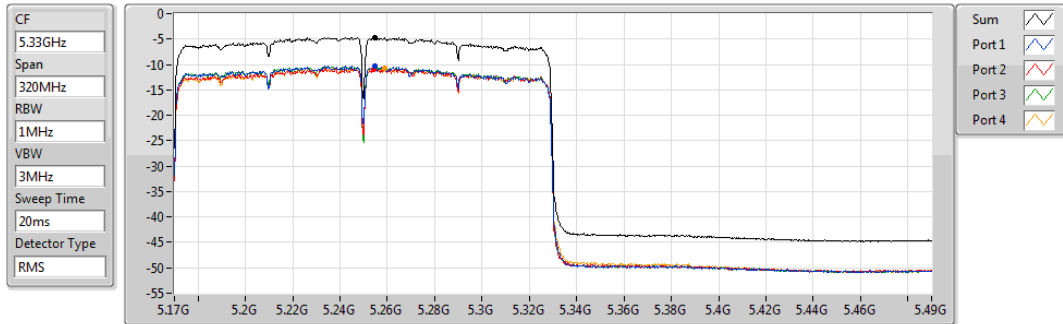
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-5.26	-5.26	-11.25	-11.30	-10.92	-11.13

802.11ax HEW160_Nss1,(MCS0)_4TX

PSD

5250MHz Straddle 5.25-5.35GHz

15/11/2018



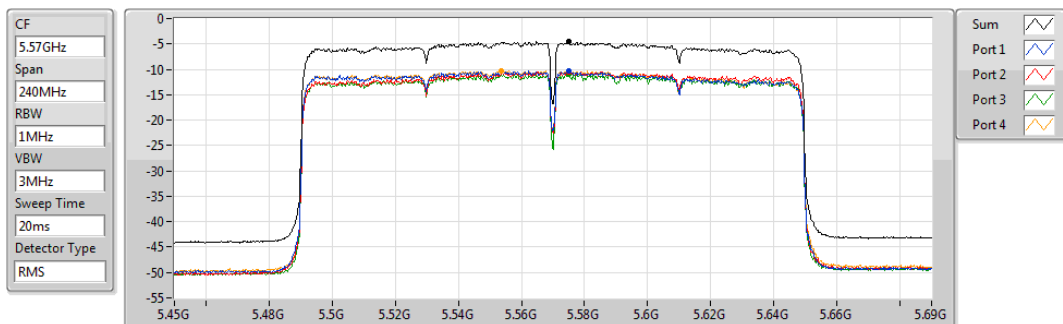
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
-4.67	-4.67	-10.35	-10.88	-10.50	-10.74

802.11ax HEW160_Nss1,(MCS0)_4TX

PSD

5570MHz

15/11/2018



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
-4.58	-4.58	-10.32	-10.52	-10.99	-10.34

Summary

Mode	PD (dBm/RBW)
5.15-5.25GHz	-
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	-2.17
5.25-5.35GHz	-
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	5.74
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	2.57
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	-0.22
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	-1.82
5.47-5.725GHz	-
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	5.70
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	2.89
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	-0.13
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	-2.89
5.725-5.85GHz	-
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	3.11
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	0.51
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	-2.92

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)
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5260MHz	Pass	10.97	-0.62	-0.21	-0.16	0.09	5.74	6.03
5300MHz	Pass	10.97	-0.46	-0.89	-0.26	-0.24	5.49	6.03
5320MHz	Pass	10.97	-0.68	-0.65	-0.62	0.32	5.55	6.03
5500MHz	Pass	10.97	-0.46	-0.14	-0.40	-0.06	5.67	6.03
5580MHz	Pass	10.97	-0.85	-0.42	-0.52	-0.29	5.40	6.03
5700MHz	Pass	10.97	-0.73	-0.37	-0.18	0.27	5.70	6.03
5720MHz Straddle 5.47-5.725GHz	Pass	10.97	-1.07	-0.61	-0.07	-0.42	5.42	6.03
5720MHz Straddle 5.725-5.85GHz	Pass	10.97	-3.23	-2.74	-2.94	-2.46	3.11	25.03
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5270MHz	Pass	10.97	-3.55	-3.10	-3.89	-3.36	2.48	6.03
5310MHz	Pass	10.97	-3.73	-3.00	-3.58	-3.20	2.57	6.03
5510MHz	Pass	10.97	-3.44	-3.32	-3.12	-3.16	2.68	6.03
5550MHz	Pass	10.97	-3.11	-3.44	-3.75	-3.07	2.60	6.03
5670MHz	Pass	10.97	-3.44	-2.84	-3.42	-2.97	2.82	6.03
5710MHz Straddle 5.47-5.725GHz	Pass	10.97	-3.67	-2.58	-3.21	-2.91	2.89	6.03
5710MHz Straddle 5.725-5.85GHz	Pass	10.97	-5.57	-5.48	-5.39	-5.35	0.51	25.03
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5290MHz	Pass	10.97	-6.08	-6.69	-6.09	-5.76	-0.22	6.03
5530MHz	Pass	10.97	-6.38	-5.79	-6.56	-6.39	-0.31	6.03
5610MHz	Pass	10.97	-6.34	-5.82	-6.10	-6.08	-0.24	6.03
5690MHz Straddle 5.47-5.725GHz	Pass	10.97	-6.60	-5.86	-5.80	-5.97	-0.13	6.03
5690MHz Straddle 5.725-5.85GHz	Pass	10.97	-9.40	-8.60	-8.32	-9.16	-2.92	25.03
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	10.97	-8.15	-8.27	-8.14	-7.97	-2.17	12.03
5250MHz Straddle 5.25-5.35GHz	Pass	10.97	-7.72	-7.76	-8.07	-7.53	-1.82	6.03
5570MHz	Pass	10.97	-8.95	-8.88	-8.83	-8.39	-2.89	6.03

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 Xpower density;