

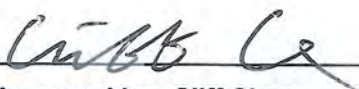


FCC RADIO TEST REPORT

FCC ID : Z8H89FT0058
Equipment : Wireless Access Point
Brand Name : Cambium Networks
Model Name : REG-XV3-8
Applicant : Cambium Networks Inc.
3800 Golf Road, Suite 360 Rolling Meadows, IL 60008, USA
Manufacturer : Cambium Networks, Ltd.
Ashburton, TQ13 7UP, UK
Standard : 47 CFR FCC Part 15.407

The product was received on Sep. 23, 2019, and testing was started from Oct. 20, 2019 and completed on Feb. 07, 2020. We, SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown compliance with the applicable technical standards.

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



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TEL : 886-3-656-9065
FAX : 886-3-656-9085
Report Template No.: CB-A12_1 Ver1.0



Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
1.1.2	15.203	Antenna Requirement	PASS	-
3.1	15.407(a)	Emission Bandwidth	PASS	-
3.2	15.407(a)	Maximum Conducted Output Power	PASS	-
3.3	15.407(a)	Peak Power Spectral Density	PASS	-
3.4	15.407(b)	Unwanted Emissions	PASS	-
Note: Reference to Sporton Project No.: 912418-03.				

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: Sam Chen

Report Producer: Wendy Pan



1 General Description

1.1 Information

1.1.1 RF General Information

<DBS mode>

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

Band	Mode	BWch (MHz)	Nant
5.25-5.35GHz	802.11a	20	8TX
5.25-5.35GHz	802.11n HT20	20	8TX
5.25-5.35GHz	802.11n HT20-BF	20	8TX
5.25-5.35GHz	802.11ac VHT20	20	8TX
5.25-5.35GHz	802.11ac VHT20-BF	20	8TX
5.25-5.35GHz	802.11ax HEW20	20	8TX
5.25-5.35GHz	802.11ax HEW20-BF	20	8TX
5.25-5.35GHz	802.11n HT40	40	8TX
5.25-5.35GHz	802.11n HT40-BF	40	8TX
5.25-5.35GHz	802.11ac VHT40	40	8TX
5.25-5.35GHz	802.11ac VHT40-BF	40	8TX
5.25-5.35GHz	802.11ax HEW40	40	8TX
5.25-5.35GHz	802.11ax HEW40-BF	40	8TX
5.25-5.35GHz	802.11ac VHT80	80	8TX
5.25-5.35GHz	802.11ac VHT80-BF	80	8TX
5.25-5.35GHz	802.11ax HEW80	80	8TX
5.25-5.35GHz	802.11ax HEW80-BF	80	8TX
5.47-5.725GHz	802.11a	20	8TX
5.47-5.725GHz	802.11n HT20	20	8TX
5.47-5.725GHz	802.11n HT20-BF	20	8TX
5.47-5.725GHz	802.11ac VHT20	20	8TX
5.47-5.725GHz	802.11ac VHT20-BF	20	8TX
5.47-5.725GHz	802.11ax HEW20	20	8TX

Band	Mode	BWch (MHz)	Nant
5.47-5.725GHz	802.11ax HEW20-BF	20	8TX
5.47-5.725GHz	802.11n HT40	40	8TX
5.47-5.725GHz	802.11n HT40-BF	40	8TX
5.47-5.725GHz	802.11ac VHT40	40	8TX
5.47-5.725GHz	802.11ac VHT40-BF	40	8TX
5.47-5.725GHz	802.11ax HEW40	40	8TX
5.47-5.725GHz	802.11ax HEW40-BF	40	8TX
5.47-5.725GHz	802.11ac VHT80	80	8TX
5.47-5.725GHz	802.11ac VHT80-BF	80	8TX
5.47-5.725GHz	802.11ax HEW80	80	8TX
5.47-5.725GHz	802.11ax HEW80-BF	80	8TX

Note:

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


<SBS mode>

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

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



Band	Mode	BWch (MHz)	Nant
5.47-5.725GHz	802.11ax HEW40	40	4TX
5.47-5.725GHz	802.11ax HEW40-BF	40	4TX
5.47-5.725GHz	802.11ac VHT80	80	4TX
5.47-5.725GHz	802.11ac VHT80-BF	80	4TX
5.47-5.725GHz	802.11ax HEW80	80	4TX
5.47-5.725GHz	802.11ax HEW80-BF	80	4TX

Note:

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

<Scan Radio>

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

Band	Mode	BWch (MHz)	Nant
5.25-5.35GHz	802.11a	20	1TX
5.25-5.35GHz	802.11n HT20	20	1TX
5.25-5.35GHz	802.11ac VHT20	20	1TX
5.25-5.35GHz	802.11n HT40	40	1TX
5.25-5.35GHz	802.11ac VHT40	40	1TX
5.25-5.35GHz	802.11ac VHT80	80	1TX
5.47-5.725GHz	802.11a	20	1TX
5.47-5.725GHz	802.11n HT20	20	1TX
5.47-5.725GHz	802.11ac VHT20	20	1TX
5.47-5.725GHz	802.11n HT40	40	1TX
5.47-5.725GHz	802.11ac VHT40	40	1TX
5.47-5.725GHz	802.11ac VHT80	80	1TX

Note:

- ♦ 11a, HT20 and HT40 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM modulation.
- ♦ VHT20, VHT40 and VHT80 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM, 256QAM 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

Radio	Ant.	Port		Brand	Model Name	Type	Connector	Gain (dBi)								Function
1	1	1		ANGeei	120G0000032 5A	PIFA	I-PEX	5.13								WLAN 2.4GHz (DBS mode)
	2	2		ANGeei	120G0000032 5A	PIFA	I-PEX	5.13								
	3	3		ANGeei	120G0000032 5A	PIFA	I-PEX	5.13								
	4	4		ANGeei	120G0000032 5A	PIFA	I-PEX	5.13								
Radio	Ant.	Port		Brand	Model Name	Type	Connector	Gain (dBi)								Function
		DBS mode	SBS mode					DBS mode				SBS mode				
								B1	B2	B3	B4	B1	B2	B3	B4	
2	5	1	1	ANGeei	120G0000032 5A	PIFA	I-PEX	6.72	6.50	6.16	6.70	-	-	6.16	6.70	WLAN 5GHz (DBS mode or SBS mode)
	6	2	2	ANGeei	120G0000032 5A	PIFA	I-PEX	6.72	6.50	6.16	6.70	-	-	6.16	6.70	
	7	3	3	ANGeei	120G0000032 5A	PIFA	I-PEX	6.72	6.50	6.16	6.70	-	-	6.16	6.70	
	8	4	4	ANGeei	120G0000032 5A	PIFA	I-PEX	6.72	6.50	6.16	6.70	-	-	6.16	6.70	
3	9	5	1	ANGeei	120G0000032 5A	PIFA	I-PEX	6.72	6.50	6.16	6.70	6.19	6.14	-	-	
	10	6	2	ANGeei	120G0000032 5A	PIFA	I-PEX	6.72	6.50	6.16	6.70	6.19	6.14	-	-	
	11	7	3	ANGeei	120G0000032 5A	PIFA	I-PEX	6.72	6.50	6.16	6.70	6.19	6.14	-	-	
	12	8	4	ANGeei	120G0000032 5A	PIFA	I-PEX	6.72	6.50	6.16	6.70	6.19	6.14	-	-	
Radio	Ant.	Port		Brand	Model Name	Type	Connector	Gain (dBi)								Function
								2.4GHz				5GHz				
4	13	1		ANGeei	120G0000032 5A	PIFA	I-PEX	5.08				6.27				WLAN 2.4GHz/ 5GHz (Scan Radio)
Radio	Ant.	Port		Brand	Model Name	Type	Connector	Gain (dBi)								Function
5	14	1		WIESON	GT128V007S- 001	PIFA	I-PEX	4.90								Bluetooth

For Composite Gain:

Radio	Ant.	Port	Composite Gain (dBi) / Beamforming mode				Function
1	1~4	1~4	9.25				WLAN 2.4GHz (DBS mode)
Radio	Ant.	Port	Composite Gain (dBi) / Beamforming mode				Function
			B1	B2	B3	B4	
2+3	5~12	1~8	11.66	11.47	11.00	11.41	WLAN 5GHz (DBS mode)
Radio	Ant.	Port	Composite Gain (dBi) / Beamforming mode				Function
			B1	B2	B3	B4	
2	5~8	1~4	-	-	8.93	8.79	WLAN 5GHz High Band (SBS mode)
3	9~12	1~4	9.58	8.66	-	-	WLAN 5GHz Low Band (SBS mode)

Note1: The above information was declared by manufacturer.

Note2: The EUT has fourteen antennas.

Note3: The non-beamforming mode follows 10log(N) and beamforming mode follows composite gain for Directional Gain.

<DBS mode>

Radio	Ant.	Port	WLAN 2.4GHz function
1	1~4	1~4	IEEE 802.11b/g/n/VHT/ax mode (4TX/4RX): Port 1, Port 2, Port 3 and Port 4 could transmit/receive simultaneously.
Radio	Ant.	Port	WLAN 5GHz functions
2	5~8	1~4	IEEE 802.11a/n/ac/ax mode (8TX/8RX):
3	9~12	5~8	Port 1, Port 2, Port 3, Port 4, Port 5, Port 6, Port 7 and Port 8 could transmit/receive simultaneously.

<SBS mode>

Radio	Ant.	Port	WLAN 5GHz High Band function
2	5~8	1~4	IEEE 802.11a/n/ac/ax mode (4TX/4RX): Port 1, Port 2, Port 3 and Port 4 could transmit/receive simultaneously.
Radio	Ant.	Port	WLAN 5GHz Low Band function
3	9~12	1~4	IEEE 802.11a/n/ac/ax mode (4TX/4RX): Port 1, Port 2, Port 3 and Port 4 could transmit/receive simultaneously.

<Scan Radio>

Radio	Ant.	Port	WLAN 2.4GHz function
4	13	1	IEEE 802.11b/g/n/VHT mode (1TX/1RX): Only Port 1 can be used as transmitting/receiving.
Radio	Ant.	Port	WLAN 5GHz functions
4	13	1	IEEE 802.11a/n/ac mode (1TX/1RX): Only Port 1 can be used as transmitting/receiving.

<Bluetooth Radio>

Radio	Ant.	Port	Bluetooth function (1TX/1RX)
5	14	1	Only Port 1 can be used as transmitting/receiving.

1.1.3 Mode Test Duty Cycle

<DBS mode>

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq 1/T$
802.11a	0.949	0.23	1.98m	1k
802.11ax HEW20	0.96	0.18	5.448m	300
802.11ax HEW20-BF	0.89	0.51	1.766m	1k
802.11ax HEW40	0.941	0.26	5.448m	300
802.11ax HEW40-BF	0.977	0.1	1.974m	1k
802.11ax HEW80	0.959	0.18	5.448m	300
802.11ax HEW80-BF	0.877	0.57	1.945m	1k

<SBS mode>

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq 1/T$
802.11a	0.942	0.26	1.978m	1k
802.11ax HEW20	0.95	0.22	5.448m	300
802.11ax HEW20-BF	0.853	0.69	1.764m	1k
802.11ax HEW40	0.951	0.22	5.448m	300
802.11ax HEW40-BF	0.874	0.58	1.764m	1k
802.11ax HEW80	0.952	0.21	5.448m	300
802.11ax HEW80-BF	0.918	0.37	1.944m	1k

<Scan Radio>

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq 1/T$
802.11a	0.966	0.15	2.033m	1k
802.11ac VHT20	0.965	0.15	1.893m	1k
802.11ac VHT40	0.932	0.31	932.5u	3k
802.11ac VHT80	0.872	0.59	460u	3k

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
	The product has beamforming function for 11n/VHT/11ax in 2.4GHz and 11n/11ac/11ax 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	For non-beamforming: QSPR For beamforming: telnet			

Note: The above information was declared by manufacturer.

1.1.5 Table for Class III Change

This product is an extension of original one reported under Sporton project number: FR912418-02AB

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

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



1.2 Applicable Standards

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

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

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

- ♦ 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, Ln. 724, Bo'ai St., Zhubei 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 (°C / %)	Test Date
RF Conducted	TH01-CB	Owen Hsu	23.6-24.4 / 36-48	Oct. 30, 2019~Feb. 07, 2020
Radiated above 1GHz	03CH06-CB	Stim Sung	24.3-25.8 / 57-58	Oct. 20, 2019~Jan. 16, 2020

Test site Designation No. TW0006 with FCC.

Test site registered number IC 4086D with Industry Canada.

1.4 Measurement Uncertainty

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

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



2 Test Configuration of EUT

2.1 Test Channel Mode

<DBS mode>

Mode	PowerSetting
802.11a_Nss1,(6Mbps)_8TX	-
5260MHz	5
5300MHz	5
5320MHz	5.5
5500MHz	6
5580MHz	6
5700MHz	5.5
5720MHz Straddle 5.47-5.725GHz	5
5720MHz Straddle 5.725-5.85GHz	5
802.11ax HEW20_Nss1,(MCS0)_8TX	-
5260MHz	6
5300MHz	5.5
5320MHz	5.5
5500MHz	6.5
5580MHz	5
5700MHz	6
5720MHz Straddle 5.47-5.725GHz	6
5720MHz Straddle 5.725-5.85GHz	6
802.11ax HEW20-BF_Nss1,(MCS0)_8TX	-
5260MHz	17
5300MHz	17
5320MHz	17
5500MHz	18
5580MHz	18
5700MHz	18
5720MHz Straddle 5.47-5.725GHz	17
5720MHz Straddle 5.725-5.85GHz	17
802.11ax HEW40_Nss1,(MCS0)_8TX	-
5270MHz	8.5
5310MHz	8
5510MHz	8.5
5550MHz	8.5
5670MHz	8.5
5710MHz Straddle 5.47-5.725GHz	8.5
5710MHz Straddle 5.725-5.85GHz	8.5



Mode	PowerSetting
802.11ax HEW40-BF_Nss1,(MCS0)_8TX	-
5270MHz	17
5310MHz	17
5510MHz	18
5550MHz	18
5670MHz	18
5710MHz Straddle 5.47-5.725GHz	18
5710MHz Straddle 5.725-5.85GHz	18
802.11ax HEW80_Nss1,(MCS0)_8TX	-
5290MHz	11
5530MHz	11.5
5610MHz	11.5
5690MHz Straddle 5.47-5.725GHz	11.5
5690MHz Straddle 5.725-5.85GHz	11.5
802.11ax HEW80-BF_Nss1,(MCS0)_8TX	-
5290MHz	17
5530MHz	18
5610MHz	18
5690MHz Straddle 5.47-5.725GHz	18
5690MHz Straddle 5.725-5.85GHz	18

**<SBS mode>**

Mode	PowerSetting
802.11a_Nss1,(6Mbps)_4TX	-
5260MHz	10.5
5300MHz	11
5320MHz	10.5
5500MHz	11.5
5580MHz	10.5
5700MHz	11
5720MHz Straddle 5.47-5.725GHz	10.5
5720MHz Straddle 5.725-5.85GHz	10.5
802.11ax HEW20_Nss1,(MCS0)_4TX	-
5260MHz	10.5
5300MHz	11.5
5320MHz	10.5
5500MHz	11.5
5580MHz	11
5700MHz	10.5
5720MHz Straddle 5.47-5.725GHz	11.5
5720MHz Straddle 5.725-5.85GHz	11.5
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	-
5260MHz	20
5300MHz	20
5320MHz	19
5500MHz	20
5580MHz	20
5700MHz	19
5720MHz Straddle 5.47-5.725GHz	20
5720MHz Straddle 5.725-5.85GHz	20
802.11ax HEW40_Nss1,(MCS0)_4TX	-
5270MHz	14
5310MHz	14
5510MHz	13.5
5550MHz	14
5670MHz	14
5710MHz Straddle 5.47-5.725GHz	14
5710MHz Straddle 5.725-5.85GHz	14
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	-
5270MHz	20
5310MHz	19
5510MHz	19



Mode	PowerSetting
5550MHz	20
5670MHz	19
5710MHz Straddle 5.47-5.725GHz	21
5710MHz Straddle 5.725-5.85GHz	21
802.11ax HEW80_Nss1,(MCS0)_4TX	-
5290MHz	14.5
5530MHz	14
5610MHz	17
5690MHz Straddle 5.47-5.725GHz	17
5690MHz Straddle 5.725-5.85GHz	17
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	-
5290MHz	19
5530MHz	19
5610MHz	20
5690MHz Straddle 5.47-5.725GHz	21
5690MHz Straddle 5.725-5.85GHz	21

**<Scan Radio>**

Mode	PowerSetting
802.11a_Nss1,(6Mbps)_1TX	-
5260MHz	28
5300MHz	28.5
5320MHz	28
5500MHz	25
5580MHz	27.5
5700MHz	26.5
5720MHz Straddle 5.47-5.725GHz	26
5720MHz Straddle 5.725-5.85GHz	26
802.11ac VHT20_Nss1,(MCS0)_1TX	-
5260MHz	28
5300MHz	28
5320MHz	27
5500MHz	25
5580MHz	27.5
5700MHz	24
5720MHz Straddle 5.47-5.725GHz	26
5720MHz Straddle 5.725-5.85GHz	26
802.11ac VHT40_Nss1,(MCS0)_1TX	-
5270MHz	29
5310MHz	27
5510MHz	25.5
5550MHz	28
5670MHz	28
5710MHz Straddle 5.47-5.725GHz	27
5710MHz Straddle 5.725-5.85GHz	27
802.11ac VHT80_Nss1,(MCS0)_1TX	-
5290MHz	19
5530MHz	20
5610MHz	27.5
5690MHz Straddle 5.47-5.725GHz	27
5690MHz Straddle 5.725-5.85GHz	27

Note:

- ♦ VHT20/VHT40 covers HT20/HT40, due to same modulation. The power setting for 802.11n HT20 and HT40 are the same or lower than 802.11ac VHT20 and VHT40.
- ♦ There are two modes of EUT for 802.11n/ac/ax in 5GHz. One is beamforming mode, and the other is non-beamforming mode. Both modes have been tested and recorded in this test report.



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
Operating Mode	
1	DBS mode
2	SBS mode
3	Scan Radio

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



The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis - Co-location RF Exposure Evaluation
Operating Mode	
1	DBS Mode (2.4GHz) + DBS Mode (5GHz) + Scan Radio (2.4GHz) + Bluetooth Radio
2	DBS Mode (2.4GHz) + DBS Mode (5GHz) + Scan Radio (5GHz) + Bluetooth Radio
3	SBS Mode (5GHz low band) + SBS Mode (5GHz high band) + DBS Mode (2.4GHz) + Scan Radio (2.4GHz) + Bluetooth Radio
4	SBS Mode (5GHz low band) + SBS Mode (5GHz high band) + DBS Mode (2.4GHz) + Scan Radio (5GHz) + Bluetooth Radio
Refer to Sporton Test Report No.: FA912418-06 for Co-location RF Exposure Evaluation.	

Note: For EUT + PoE, the PoE is for measurement only, would not be marketed.

Equipment	Brand Name	Model Name	FCC ID
PoE	Cambium	P060V04	N/A

2.3 EUT Operation during Test

<For Non-Beamforming Mode>

The EUT was programmed to be in continuously transmitting mode.

<For Beamforming Mode>

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

The program was executed as follows:

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



2.4 Accessories

Accessories					
No.	Equipment Name	Brand Name	Model Name	Rating	Remark
1	Adapter	CWT	KPL-040F-VI	INPUT: 100-240V, 50/60Hz, 1.7A OUTPUT: 12V, 3.33A, 40W	With the cable: Non-shielded, 1.3m
No.	Others				
2	Wall-mounted rack*1				
3	Power cable*1: Non-shielded, 2m				

2.5 Support Equipment

For Radiated and Conducted:

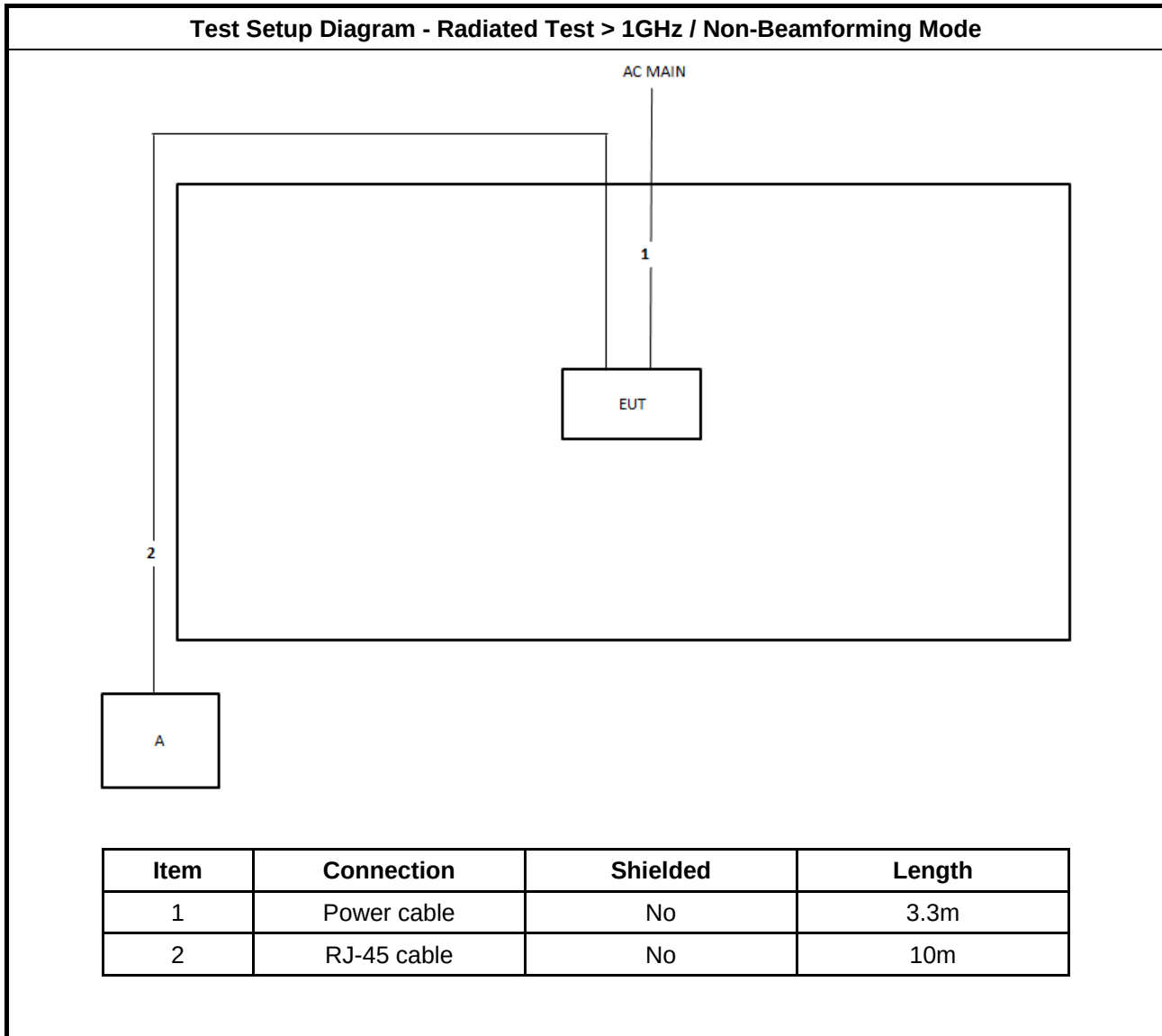
<For Non-Beamforming Mode>

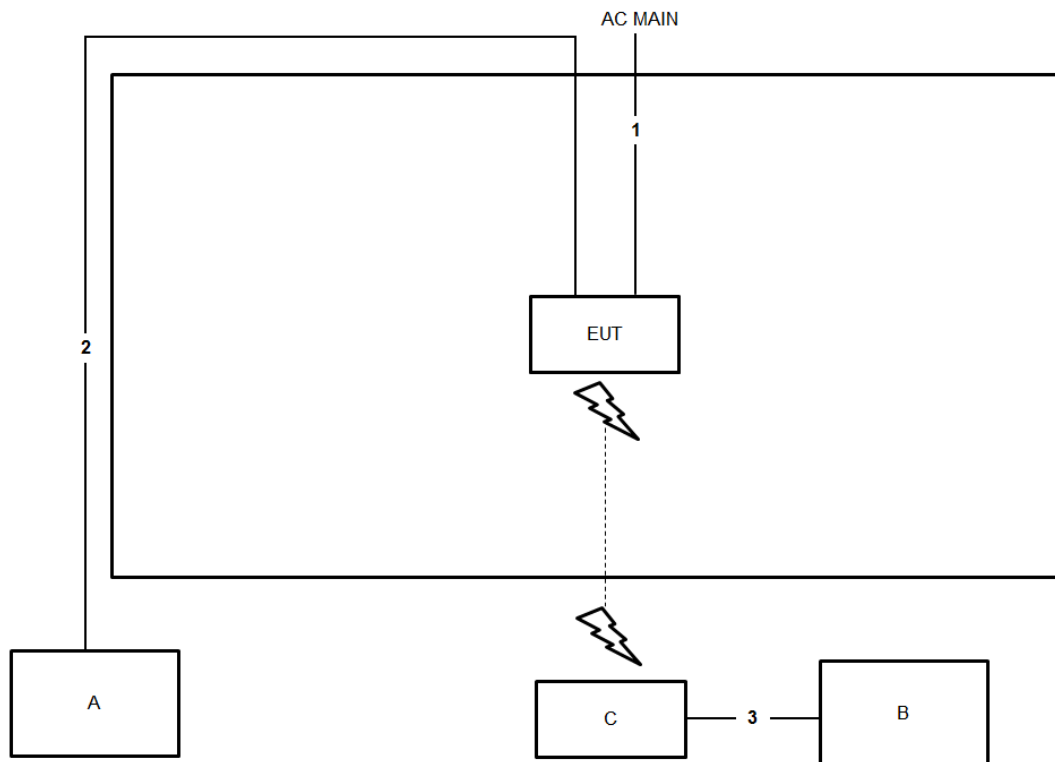
Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	NB	DELL	E4300	N/A

<For Beamforming Mode>

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	Notebook	DELL	E4300	N/A
B	Notebook	DELL	E4300	N/A
C	Client	Cambium Networks	REG-XV3-8	Z8H89FT0058

2.6 Test Setup Diagram



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


Item	Connection	Shielded	Length
1	Power cable	No	3.3m
2	RJ-45 cable	No	10m
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.

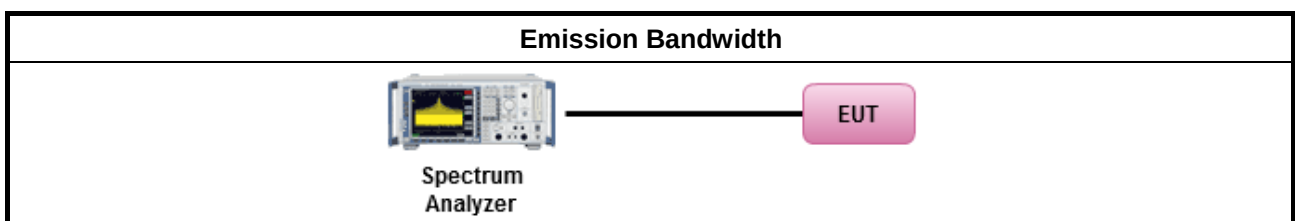
3.1.2 Measuring Instruments

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 dBm + 10 log B, where B is the 26 dB emission bandwidth in MHz. If $G_{TX} > 6$ dBi, then $P_{Out} = 24 - (G_{TX} - 6)$.
☒	For the 5.47-5.725 GHz band, the maximum conducted output power (P_{Out}) shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in MHz. If $G_{TX} > 6$ dBi, then $P_{Out} = 24 - (G_{TX} - 6)$.
☒ For the 5.725-5.85 GHz band:	
☐	- Point-to-multipoint systems (P2M): the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W. If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)$. - Point-to-point systems (P2P): the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W.
LE-LAN Devices	
☐ For the 5.15-5.25 GHz band, the maximum e.i.r.p. shall not exceed 200 mW or 10 + 10 log B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz.	
☐ For the 5.25-5.35 GHz band, the maximum e.i.r.p. shall not exceed 1.0 W or 17 + 10 log B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz	
☐ For the 5.47-5.6 GHz band and 5.65-5.725 GHz band, the maximum e.i.r.p. shall not exceed 1.0 W or 17 + 10 log B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz	
☐ For the 5.725-5.85 GHz band:	
☐	- Point-to-multipoint systems (P2M): the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W. If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)$. - Point-to-point systems (P2P): the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W.
P_{Out} = maximum conducted output power in dBm, G_{TX} = the maximum transmitting antenna directional gain in dBi.	

3.2.2 Measuring Instruments

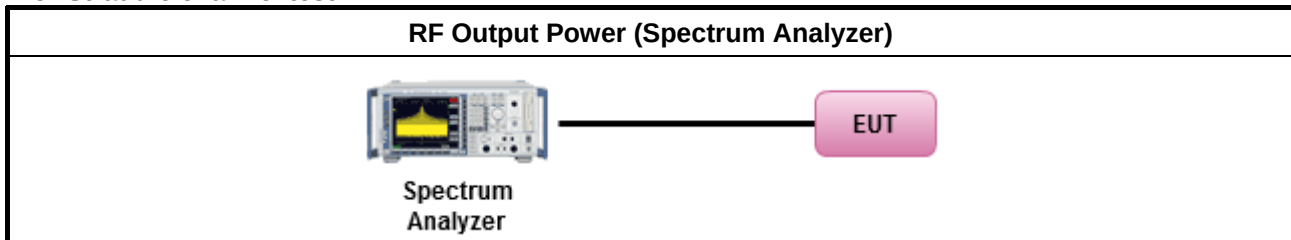
Refer a test equipment and calibration data table in this test report.

3.2.3 Test Procedures

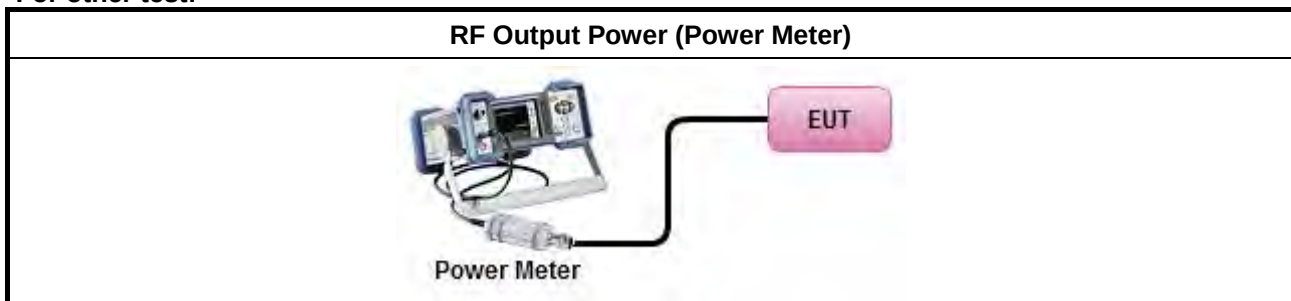
Test Method	
Maximum Conducted Output Power	
	Average over on/off periods with duty factor
☒	Refer as FCC KDB 789033, clause E Method SA-2 (spectral trace averaging).
☐	Refer as FCC KDB 789033, clause E Method SA-2 Alt. (RMS detection with slow sweep speed)
	Wideband RF power meter and average over on/off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

3.2.4 Test Setup

For Straddle channel test:



For other test:



3.2.5 Test Result of Maximum Conducted Output Power

Refer as Appendix B



3.3 Peak Power Spectral Density

3.3.1 Peak Power Spectral Density Limit

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

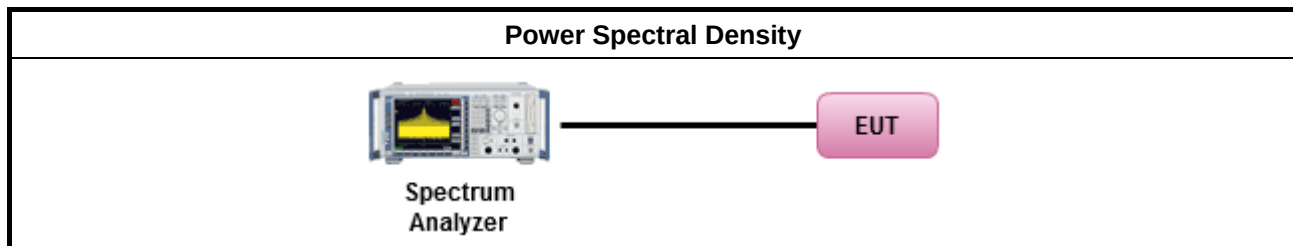
3.3.2 Measuring Instruments

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

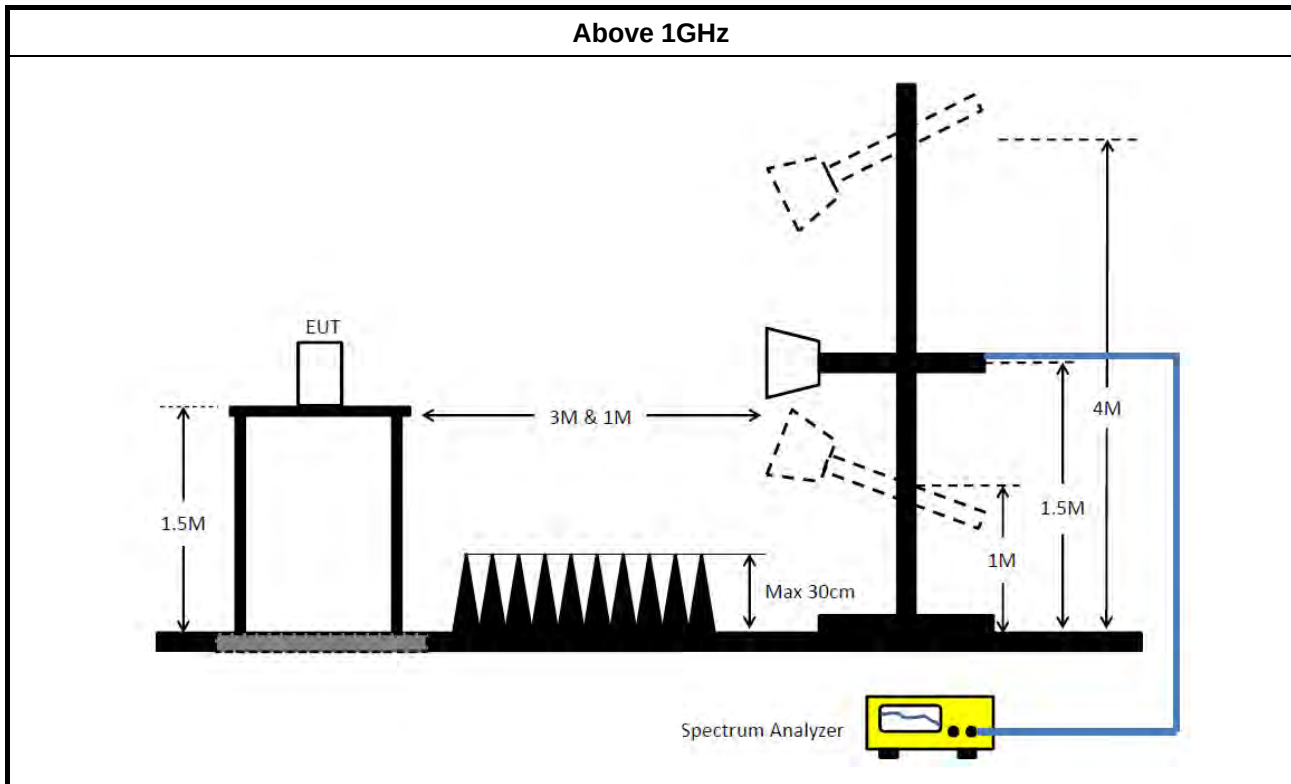
Refer a test equipment and calibration data table in this test report.



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 Measurement Results Calculation

The measured Level is calculated using:

Corrected Reading: Antenna factor (AF) + Cable loss (CL) + Read level (Raw) - Preamp factor (PA)(if applicable) = Level.

3.4.6 Test Result of Transmitter Unwanted Emissions

Refer as Appendix D



4 Test Equipment and Calibration Data

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
Horn Antenna	SCHWARZBECK	BBHA9120D	9120D-1292	1GHz~18GHz	Jul. 17, 2019	Jul. 16, 2020	Radiation (03CH06-CB)
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170507	15GHz ~ 40GHz	Jun. 12, 2019	Jun. 11, 2020	Radiation (03CH06-CB)
Pre-Amplifier	Agilent	83017A	MY53270064	0.5GHz ~ 26.5GHz	May 08, 2019	May 07, 2020	Radiation (03CH06-CB)
Pre-Amplifier	MITEQ	TTA1840-35-HG	1864479	18GHz ~ 40GHz	Jul. 03, 2019	Jul. 02, 2020	Radiation (03CH06-CB)
Spectrum Analyzer	R&S	FSP40	100304	9kHz ~ 40GHz	Aug. 15, 2019	Aug. 14, 2020	Radiation (03CH06-CB)
RF Cable-high	HUBER+SUHNER	RG402	High Cable-05	1GHz~18GHz	Oct. 08, 2018	Oct. 07, 2019	Radiation (03CH06-CB)
RF Cable-high	HUBER+SUHNER	RG402	High Cable-05	1GHz~18GHz	Oct. 07, 2019	Oct. 06, 2020	Radiation (03CH06-CB)
RF Cable-high	HUBER+SUHNER	RG402	High Cable-05+24	1GHz~18GHz	Oct. 08, 2018	Oct. 07, 2019	Radiation (03CH06-CB)
RF Cable-high	HUBER+SUHNER	RG402	High Cable-05+24	1GHz~18GHz	Oct. 07, 2019	Oct. 06, 2020	Radiation (03CH06-CB)
RF Cable-high	Woken	RG402	High Cable-40G#1	18GHz ~ 40 GHz	Jul. 24, 2019	Jul. 23, 2020	Radiation (03CH06-CB)
RF Cable-high	Woken	RG402	High Cable-40G#2	18GHz ~ 40 GHz	Jul. 24, 2019	Jul. 23, 2020	Radiation (03CH06-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH06-CB)
Spectrum analyzer	R&S	FSV40	100979	9kHz~40GHz	Feb. 25, 2019	Feb. 24, 2020	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-06	1 GHz – 26.5 GHz	Oct. 07, 2019	Oct. 06, 2020	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-07	1 GHz –26.5 GHz	Oct. 07, 2019	Oct. 06, 2020	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-08	1 GHz –26.5 GHz	Oct. 07, 2019	Oct. 06, 2020	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-09	1 GHz –26.5 GHz	Oct. 07, 2019	Oct. 06, 2020	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-10	1 GHz –26.5 GHz	Oct. 07, 2019	Oct. 06, 2020	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-28	1 GHz –26.5 GHz	Nov. 18, 2019	Nov. 17, 2020	Conducted (TH01-CB)
Power Sensor	Anritsu	MA2411B	1126203	300MHz~40GHz	Sep. 11, 2019	Sep. 10, 2020	Conducted (TH01-CB)
Power Meter	Anritsu	ML2495A	1210004	300MHz~40GHz	Sep. 11, 2019	Sep. 10, 2020	Conducted (TH01-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Conducted (TH01-CB)

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

N.C.R. means Non-Calibration required.



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)_8TX	19.2M	16.442M	16M4D1D	18.5M	16.342M
802.11ax HEW20_Nss1,(MCS0)_8TX	21.6M	18.966M	19M0D1D	20.725M	18.816M
802.11ax HEW40_Nss1,(MCS0)_8TX	41.3M	37.831M	37M8D1D	40.4M	37.581M
802.11ax HEW80_Nss1,(MCS0)_8TX	82.2M	77.261M	77M3D1D	81.3M	76.762M
5.47-5.725GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_8TX	19.35M	16.492M	16M5D1D	14.37M	13.133M
802.11ax HEW20_Nss1,(MCS0)_8TX	21.575M	19.015M	19M0D1D	15.03M	14.348M
802.11ax HEW40_Nss1,(MCS0)_8TX	41.2M	37.881M	37M9D1D	34.965M	33.443M
802.11ax HEW80_Nss1,(MCS0)_8TX	82.2M	77.661M	77M7D1D	75.375M	72.564M
5.725-5.85GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_8TX	3.22M	3.658M	3M66D1D	3.1M	3.378M
802.11ax HEW20_Nss1,(MCS0)_8TX	4.5M	4.558M	4M56D1D	3.1M	4.478M
802.11ax HEW40_Nss1,(MCS0)_8TX	4.06M	4.058M	4M06D1D	3.48M	3.998M
802.11ax HEW80_Nss1,(MCS0)_8TX	4.08M	4.078M	4M08D1D	3.74M	4.018M

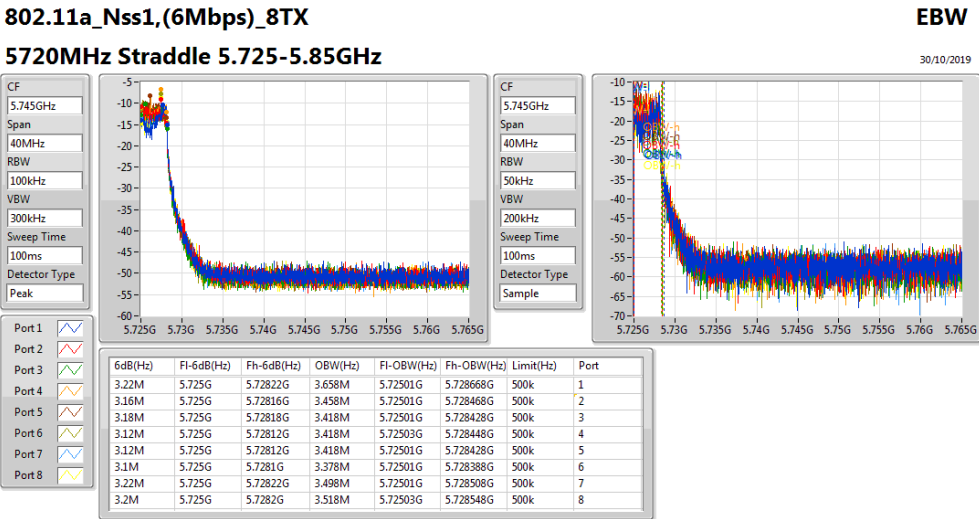
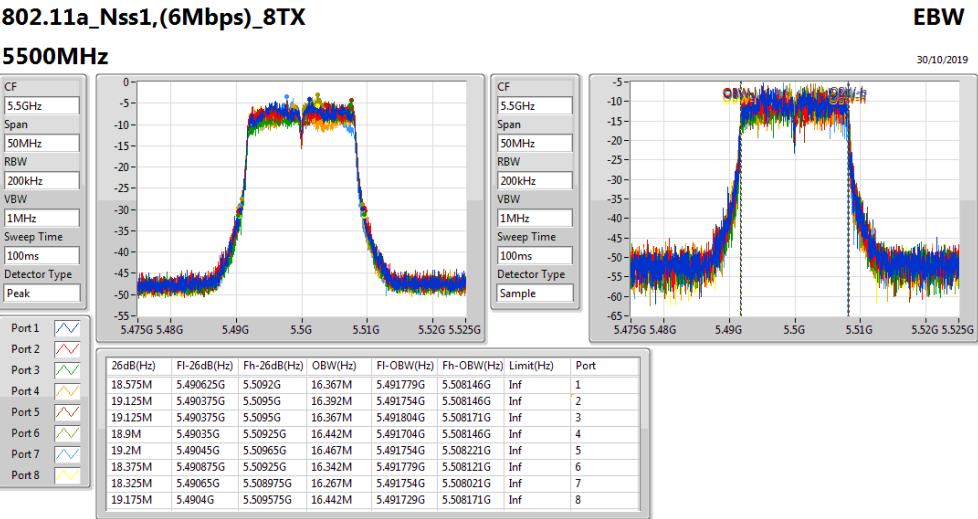
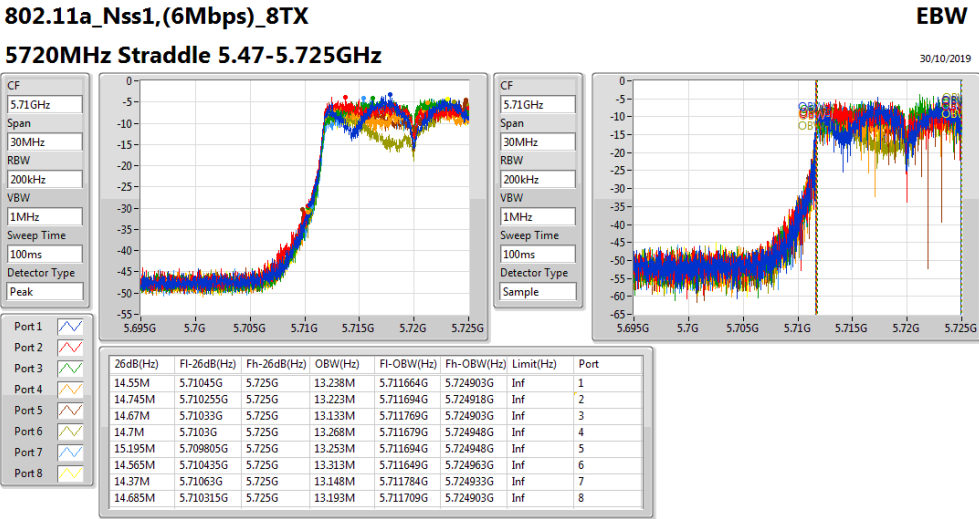
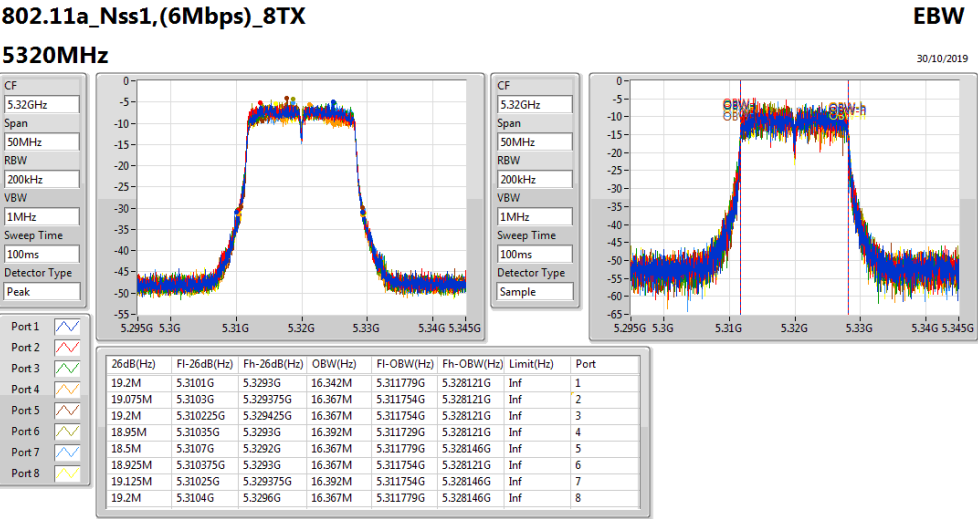
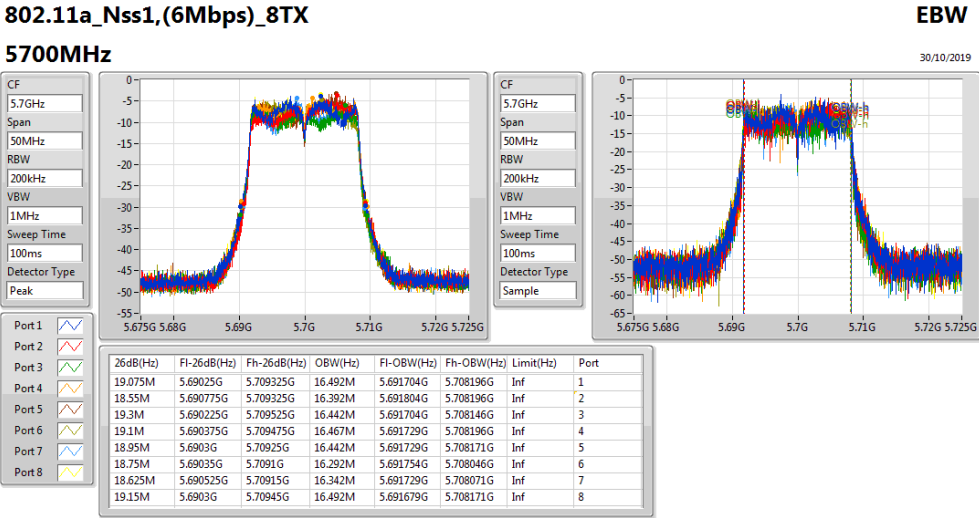
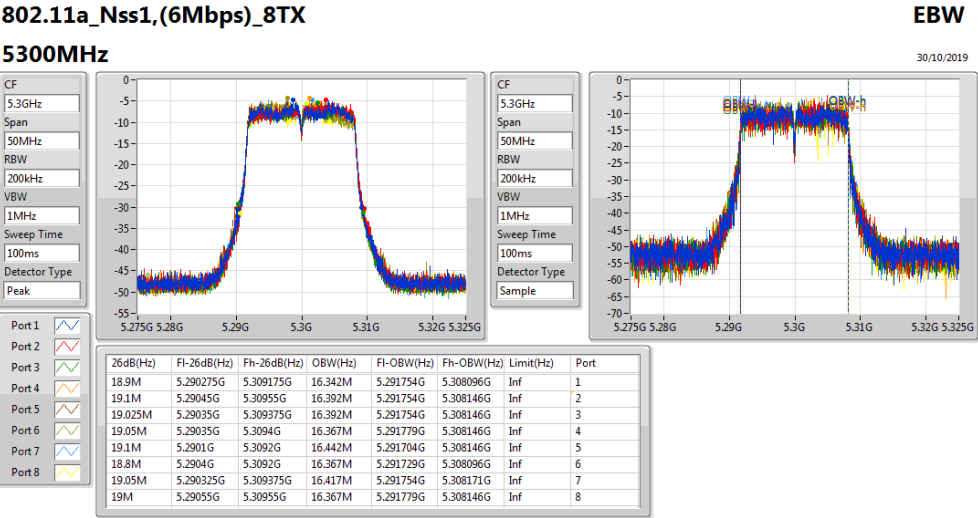
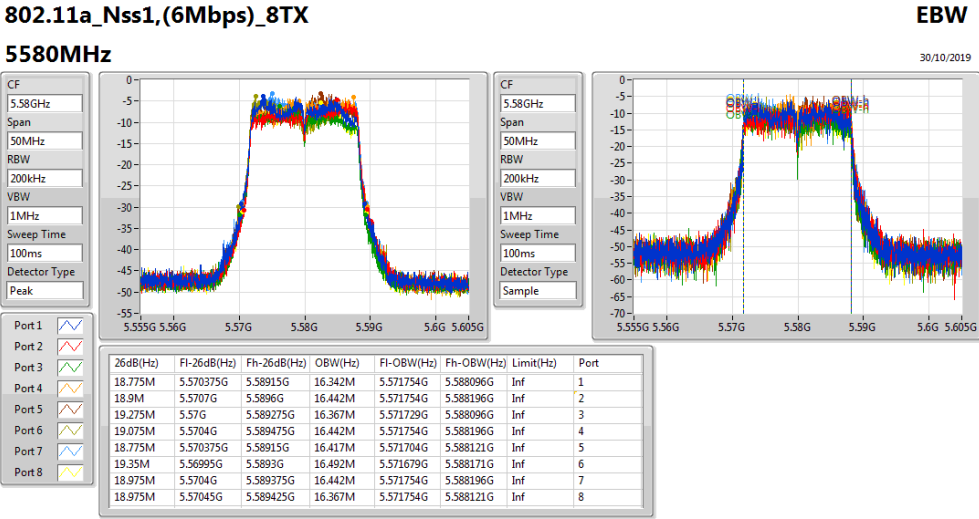
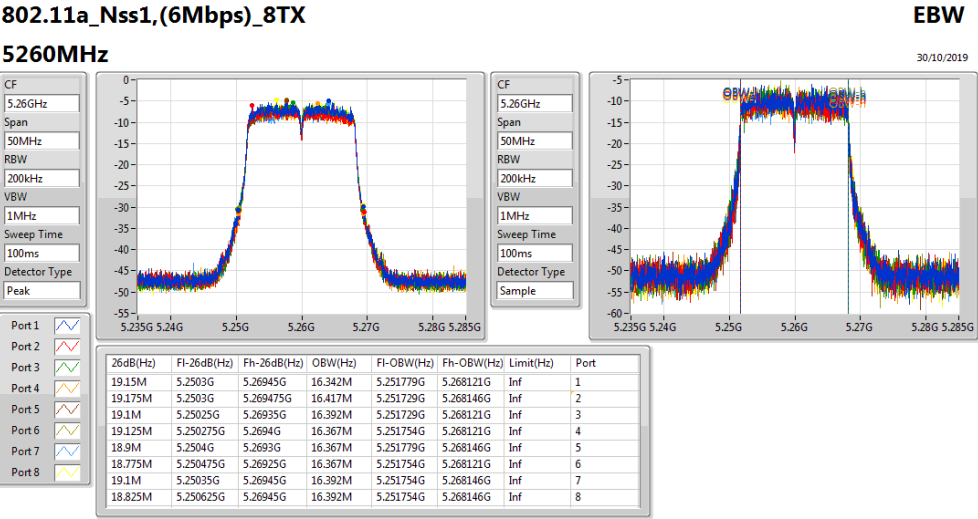
Max-N dB = Maximum 6dB down bandwidth for UNII-3 band / Maximum 26dB down bandwidth for other band; Max-OBW = Maximum 99% occupied bandwidth;
Min-N dB = Minimum 6dB down bandwidth for UNII-3 band / Maximum 26dB down bandwidth for other band; Min-OBW = Minimum 99% occupied bandwidth;



Result

Mode	Result	Limit	Port 1-N dB	Port 1-OBW	Port 2-N dB	Port 2-OBW	Port 3-N dB	Port 3-OBW	Port 4-N dB	Port 4-OBW	Port 5-N dB	Port 5-OBW	Port 6-N dB	Port 6-OBW	Port 7-N dB	Port 7-OBW	Port 8-N dB	Port 8-OBW
		(Hz)	(Hz)	(Hz)	(Hz)	(Hz)	(Hz)	(Hz)	(Hz)	(Hz)	(Hz)	(Hz)	(Hz)	(Hz)	(Hz)	(Hz)	(Hz)	(Hz)
802.11a_Nss1,(6Mbps)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5260MHz	Pass	Inf	19.15M	16.342M	19.175M	16.417M	19.1M	16.392M	19.125M	16.367M	18.9M	16.367M	18.775M	16.367M	19.1M	16.392M	18.825M	16.392M
5300MHz	Pass	Inf	18.9M	16.342M	19.1M	16.392M	19.025M	16.392M	19.05M	16.367M	19.1M	16.442M	18.8M	16.367M	19.05M	16.417M	19M	16.367M
5320MHz	Pass	Inf	19.2M	16.342M	19.075M	16.367M	19.2M	16.367M	18.95M	16.392M	18.5M	16.367M	18.925M	16.367M	19.125M	16.392M	19.2M	16.367M
5500MHz	Pass	Inf	18.575M	16.367M	19.125M	16.392M	19.125M	16.367M	18.9M	16.442M	19.2M	16.467M	18.375M	16.342M	18.325M	16.267M	19.175M	16.442M
5580MHz	Pass	Inf	18.775M	16.342M	18.9M	16.442M	19.275M	16.367M	19.075M	16.442M	18.775M	16.417M	19.35M	16.492M	18.975M	16.442M	18.975M	16.367M
5700MHz	Pass	Inf	19.075M	16.492M	18.55M	16.392M	19.3M	16.442M	19.1M	16.467M	18.95M	16.442M	18.75M	16.292M	18.625M	16.342M	19.15M	16.492M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	14.55M	13.238M	14.745M	13.223M	14.67M	13.133M	14.7M	13.268M	15.195M	13.253M	14.565M	13.313M	14.37M	13.148M	14.685M	13.193M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	3.22M	3.658M	3.16M	3.458M	3.18M	3.418M	3.12M	3.418M	3.12M	3.418M	3.1M	3.378M	3.22M	3.498M	3.2M	3.518M
802.11ax HEW20_Nss1,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5260MHz	Pass	Inf	20.925M	18.916M	21.375M	18.866M	21.15M	18.866M	20.75M	18.916M	21.225M	18.941M	20.825M	18.916M	21.35M	18.941M	21.4M	18.916M
5300MHz	Pass	Inf	21.3M	18.891M	21.325M	18.891M	21.325M	18.916M	20.9M	18.916M	20.725M	18.816M	21.125M	18.891M	20.825M	18.891M	20.875M	18.866M
5320MHz	Pass	Inf	20.9M	18.816M	21.4M	18.966M	20.85M	18.916M	21.225M	18.891M	21.125M	18.891M	20.825M	18.941M	21.6M	18.891M	21.35M	18.916M
5500MHz	Pass	Inf	21.475M	18.966M	20.725M	18.816M	21.225M	18.941M	21.125M	18.841M	21.025M	18.991M	21.275M	18.991M	21.075M	18.941M	21.35M	18.991M
5580MHz	Pass	Inf	21M	18.916M	20.8M	18.766M	21.025M	18.866M	21.25M	18.941M	20.4M	18.691M	21.575M	18.991M	21.425M	18.966M	20.825M	18.891M
5700MHz	Pass	Inf	20.525M	18.666M	21.525M	19.015M	21.325M	19.015M	21.075M	18.891M	20.95M	18.991M	21.425M	19.015M	20.625M	18.666M	20.55M	18.691M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	15.03M	14.348M	15.18M	14.408M	15.78M	14.438M	15.525M	14.483M	15.345M	14.468M	15.3M	14.423M	15.645M	14.468M	15.81M	14.483M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	4.02M	4.478M	4.26M	4.478M	4.4M	4.498M	4.5M	4.538M	3.1M	4.478M	4.4M	4.518M	4.5M	4.558M	4.42M	4.518M
802.11ax HEW40_Nss1,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5270MHz	Pass	Inf	40.75M	37.581M	40.95M	37.831M	40.85M	37.681M	40.75M	37.581M	40.65M	37.581M	40.7M	37.781M	40.45M	37.831M	40.5M	37.681M
5310MHz	Pass	Inf	40.7M	37.731M	40.55M	37.681M	40.8M	37.831M	41.3M	37.631M	40.4M	37.631M	40.55M	37.681M	40.7M	37.831M	41.1M	37.731M
5510MHz	Pass	Inf	40.8M	37.581M	40.15M	37.481M	40.9M	37.731M	40.4M	37.531M	40.75M	37.881M	41.2M	37.831M	40.4M	37.731M	40.7M	37.831M
5550MHz	Pass	Inf	40.2M	37.681M	39.95M	37.431M	40.35M	37.731M	40.35M	37.581M	40.2M	37.481M	40.65M	37.831M	40.6M	37.831M	40.5M	37.631M
5670MHz	Pass	Inf	40.4M	37.531M	40.6M	37.581M	40.9M	37.631M	40.15M	37.781M	40.6M	37.781M	40.9M	37.831M	40.15M	37.581M	40.7M	37.431M
5710MHz Straddle 5.47-5.725GHz	Pass	Inf	35.385M	33.758M	35.42M	33.723M	35.28M	33.723M	35.385M	33.828M	35.315M	33.583M	35.595M	33.828M	34.965M	33.443M	35.21M	33.723M
5710MHz Straddle 5.725-5.85GHz	Pass	500k	3.48M	3.998M	3.94M	4.038M	3.96M	4.018M	3.94M	4.058M	4.06M	4.038M	4.06M	4.058M	4.04M	4.018M	3.96M	4.018M
802.11ax HEW80_Nss1,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5290MHz	Pass	Inf	82.2M	77.061M	82M	76.762M	82M	77.261M	81.5M	77.161M	81.6M	76.962M	81.3M	76.962M	81.7M	77.061M	81.8M	76.962M
5530MHz	Pass	Inf	81.8M	76.862M	80.5M	76.562M	81.8M	76.762M	81.6M	77.061M	81.2M	76.662M	81.7M	77.561M	81.4M	77.261M	82.2M	76.962M
5690MHz Straddle 5.47-5.725GHz	Pass	Inf	75.675M	73.238M	76.125M	73.013M	76.05M	73.313M	75.975M	73.388M	75.375M	72.564M	76.425M	73.238M	75.675M	72.864M	75.675M	73.088M
5610MHz	Pass	Inf	81.5M	76.862M	81.1M	76.762M	81.7M	77.161M	81.7M	77.061M	81.6M	76.562M	82.1M	77.661M	81.7M	77.261M	81.8M	77.061M
5690MHz Straddle 5.725-5.85GHz	Pass	500k	3.96M	4.038M	4.08M	4.058M	3.88M	4.038M	3.96M	4.078M	4.08M	4.038M	3.94M	4.018M	4.04M	4.038M	3.74M	4.038M

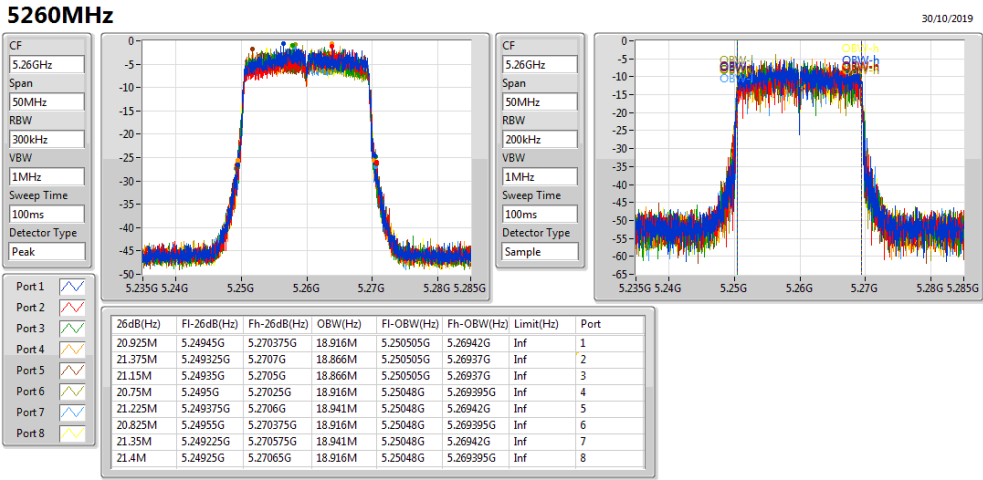
Port X-N dB = Port X 6dB down bandwidth for UNII-3 band / 26dB down bandwidth for other band; Port X-OBW = Port X 99% occupied bandwidth;





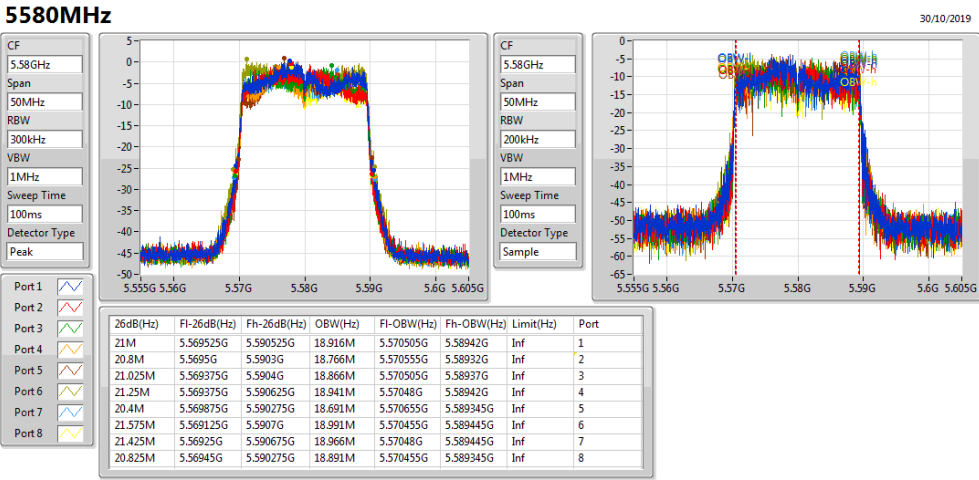
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EBW



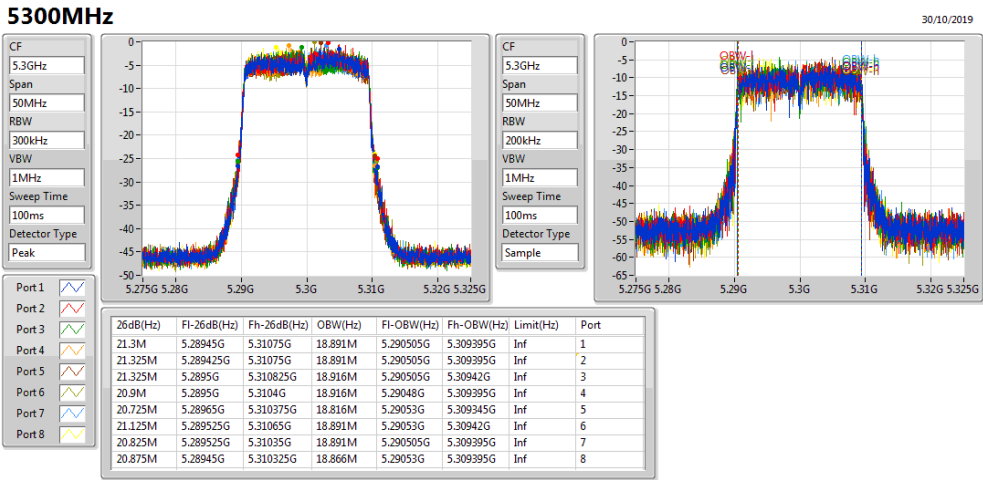
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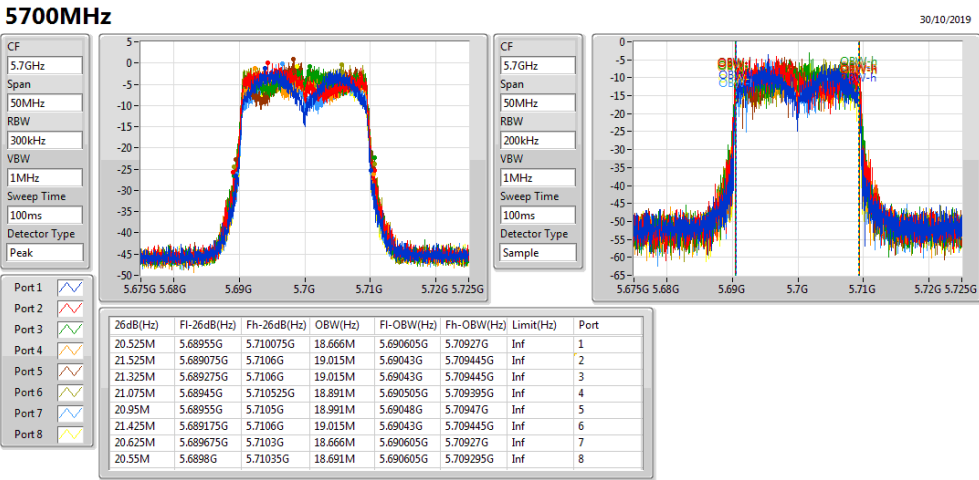
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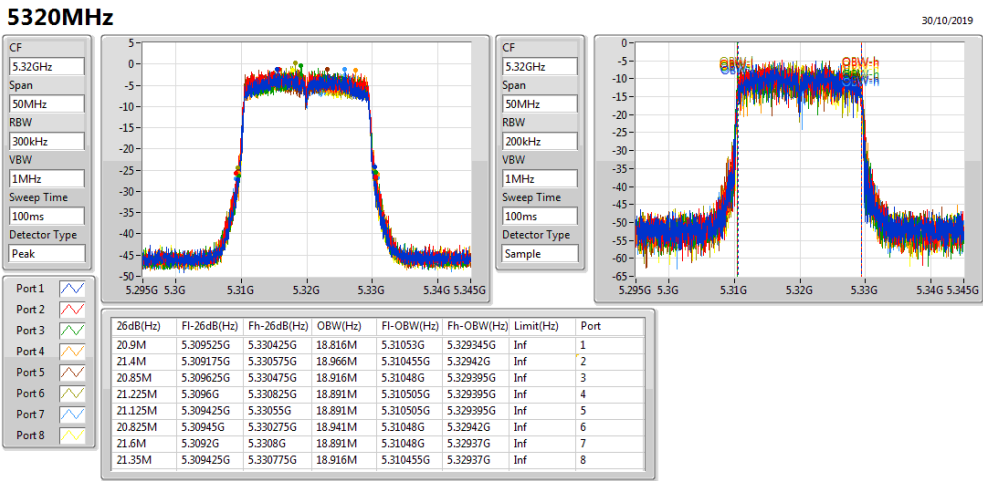
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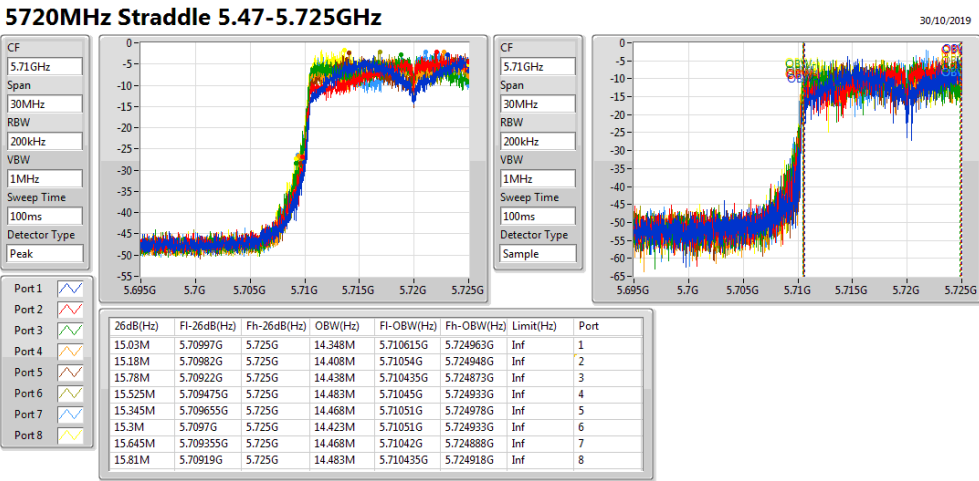
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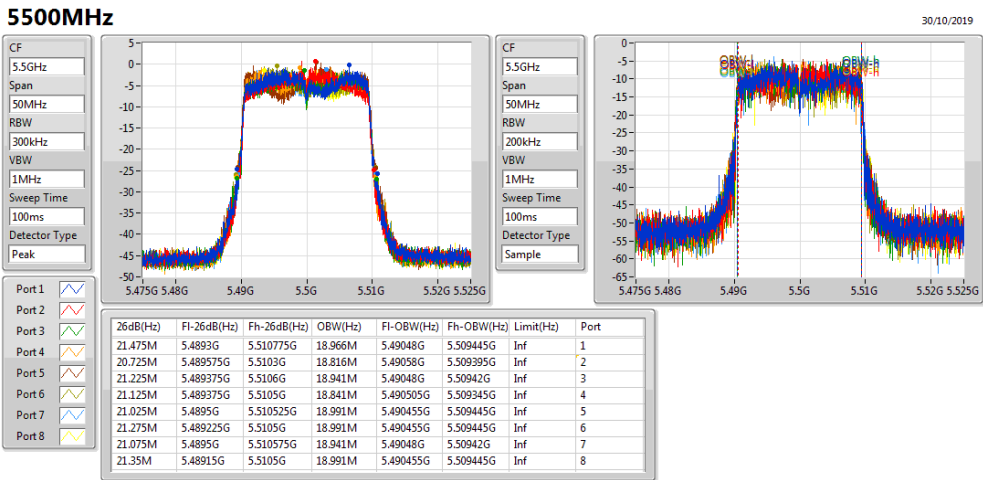
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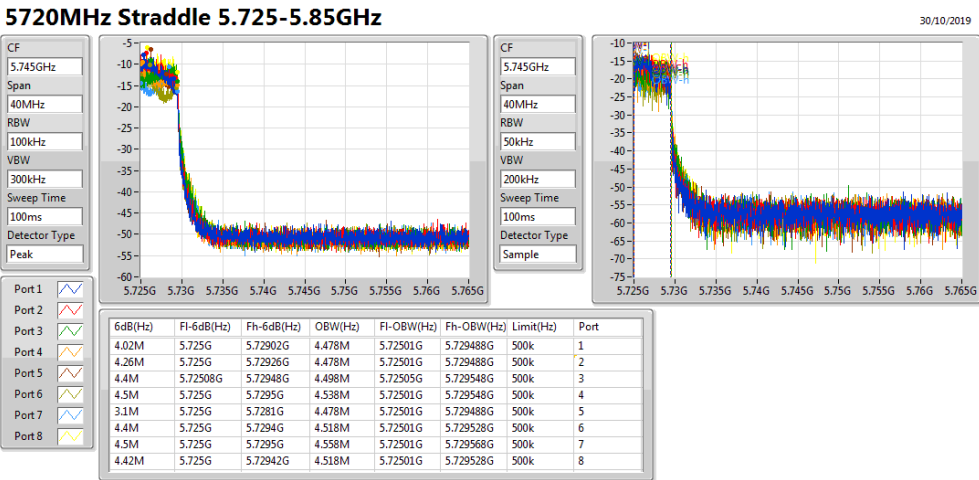
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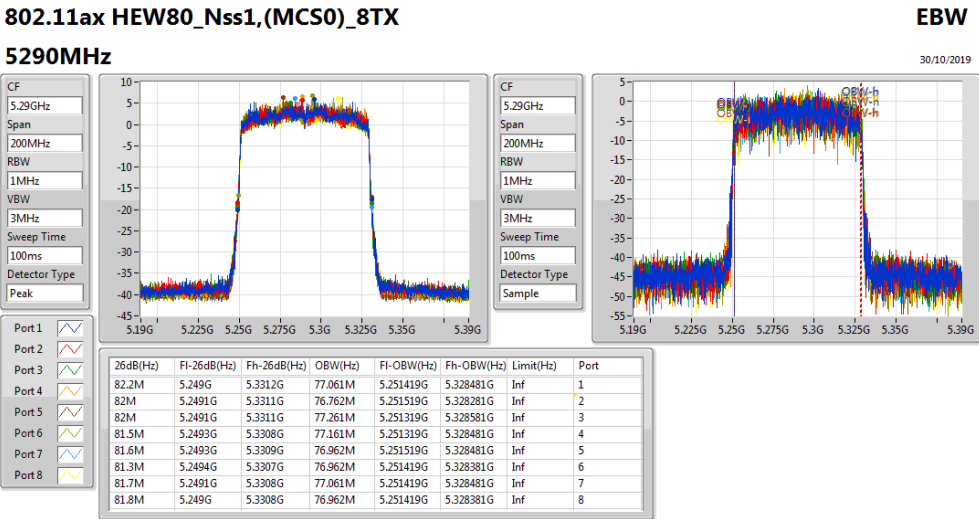
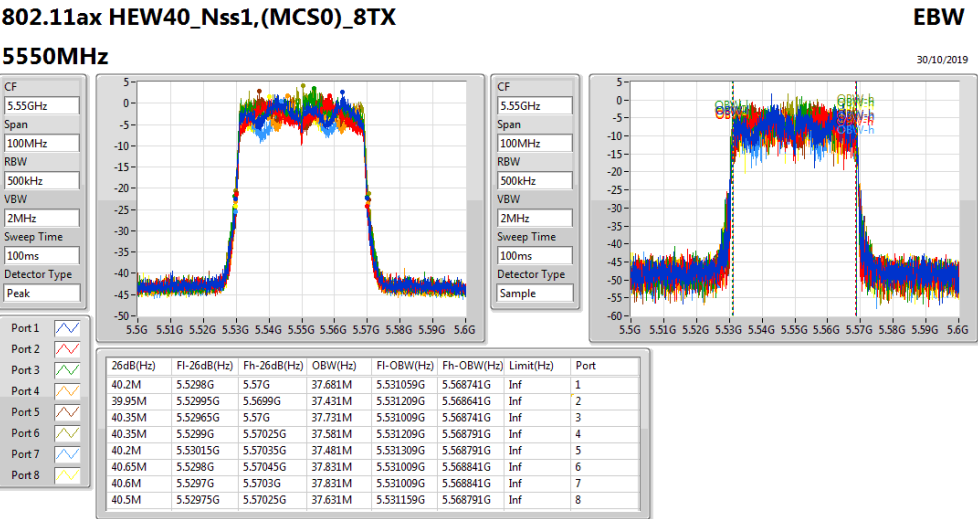
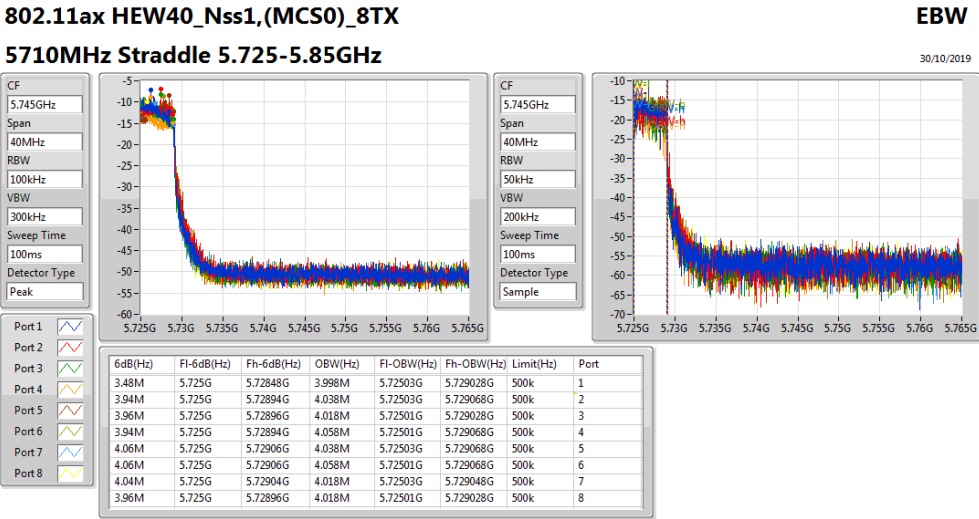
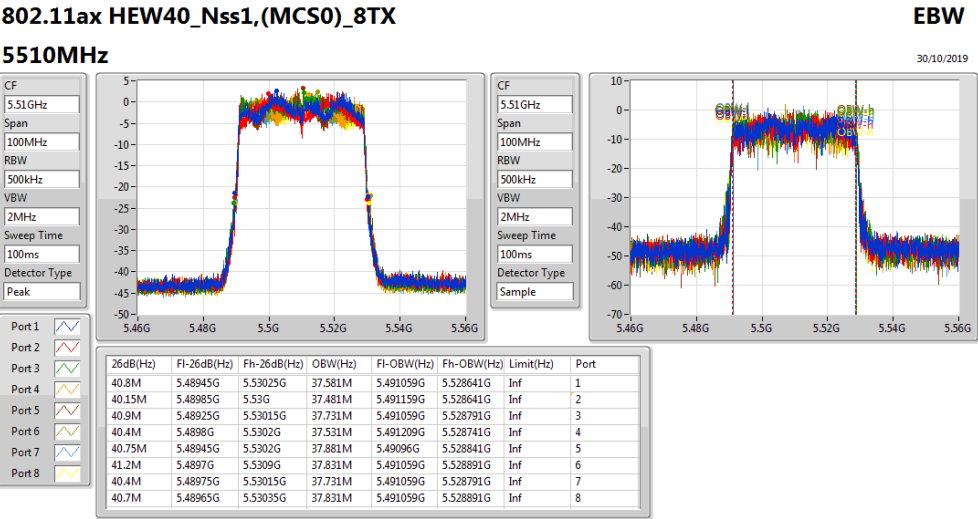
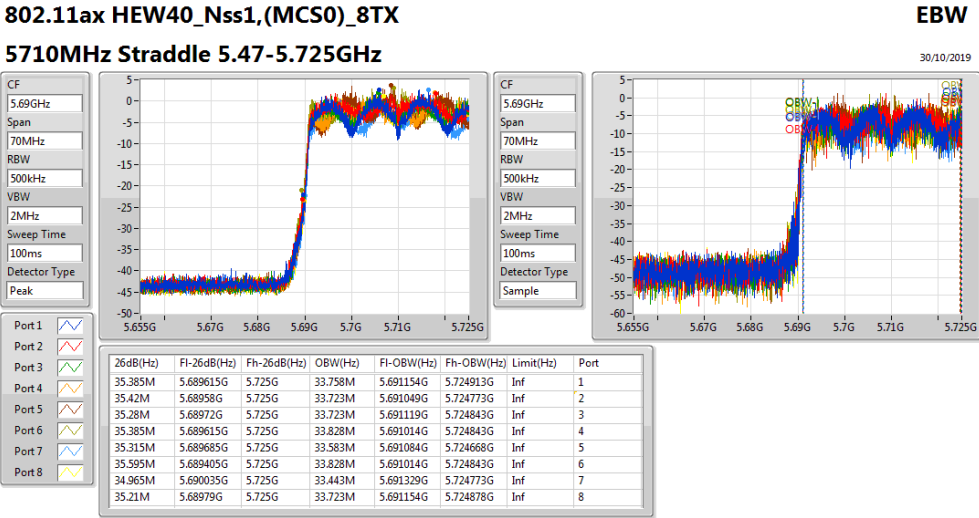
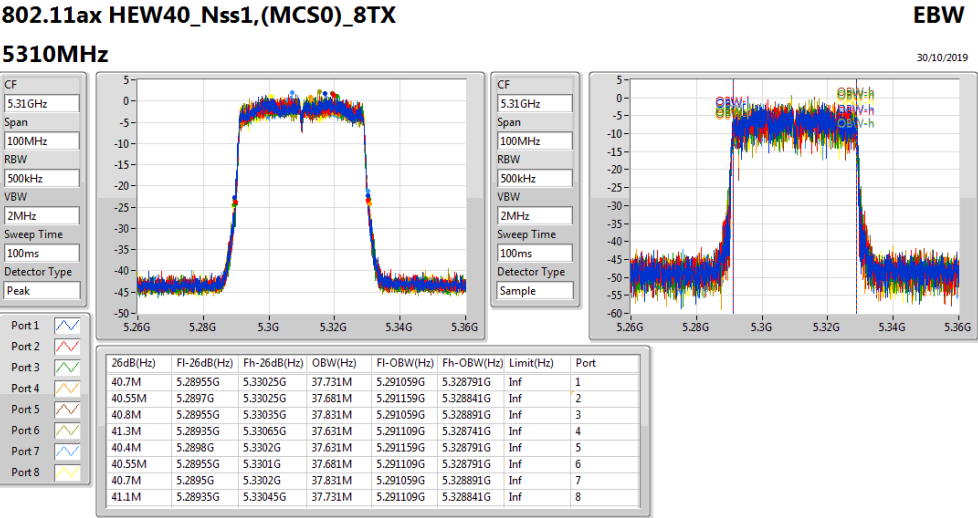
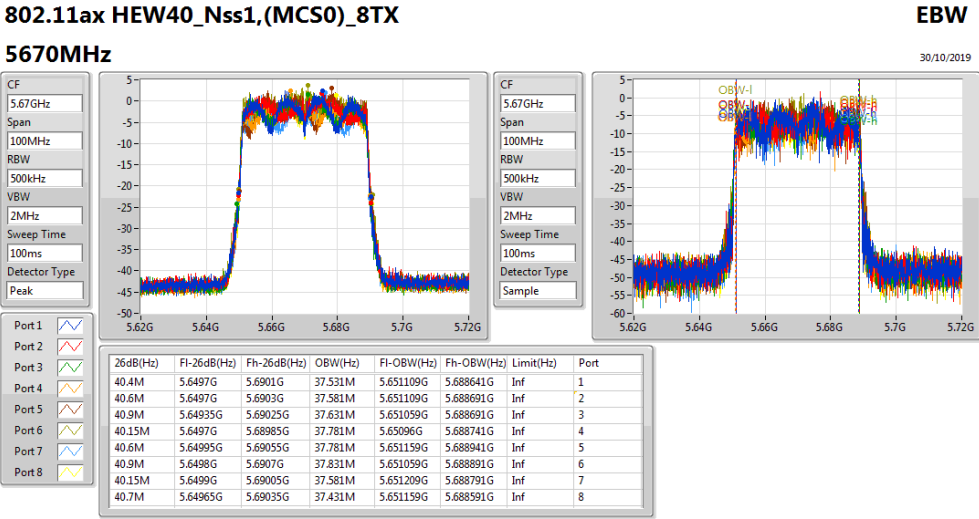
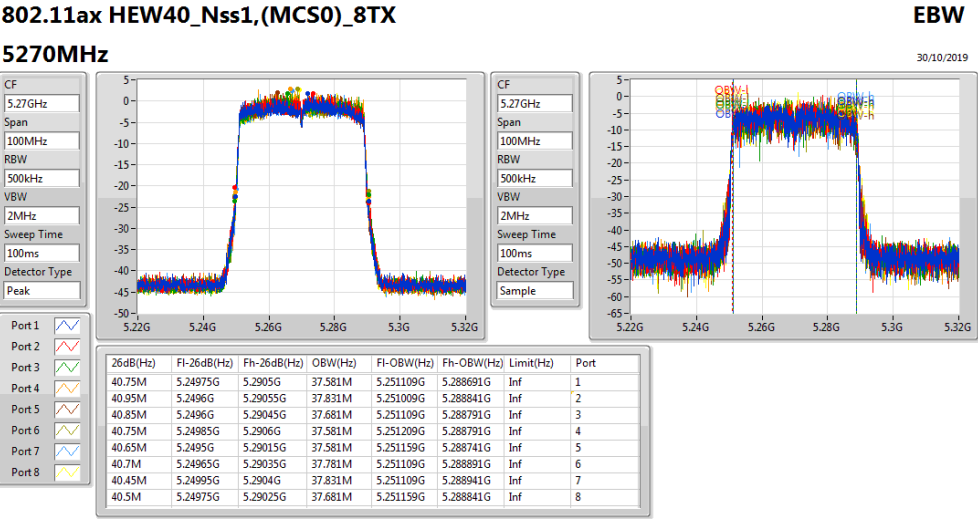
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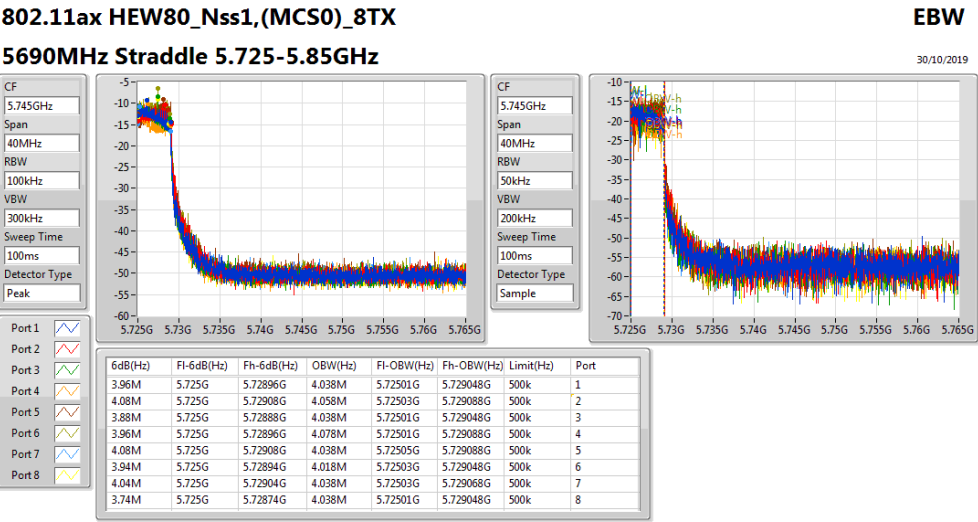
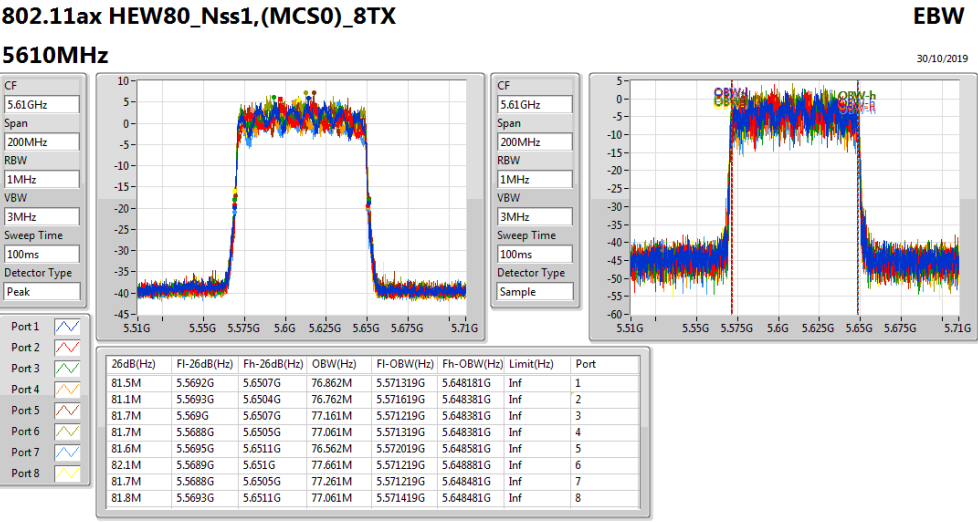
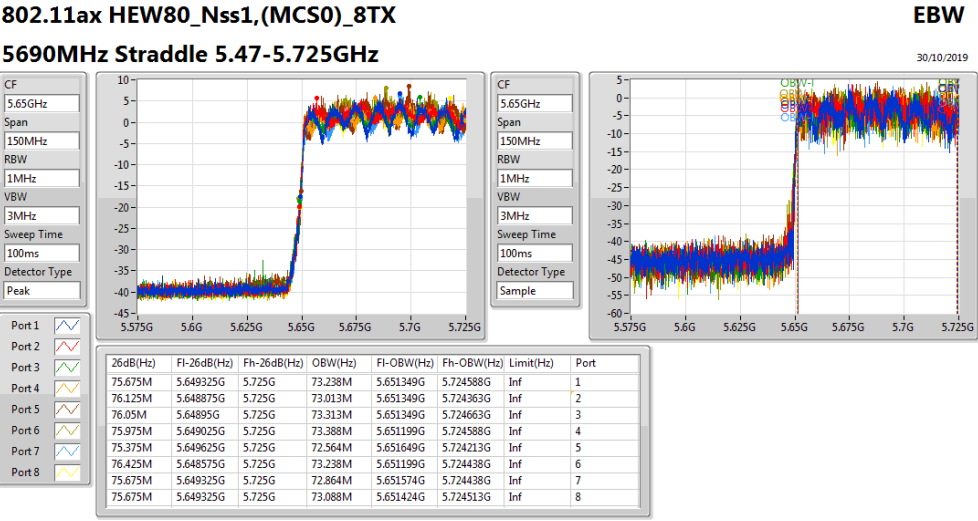
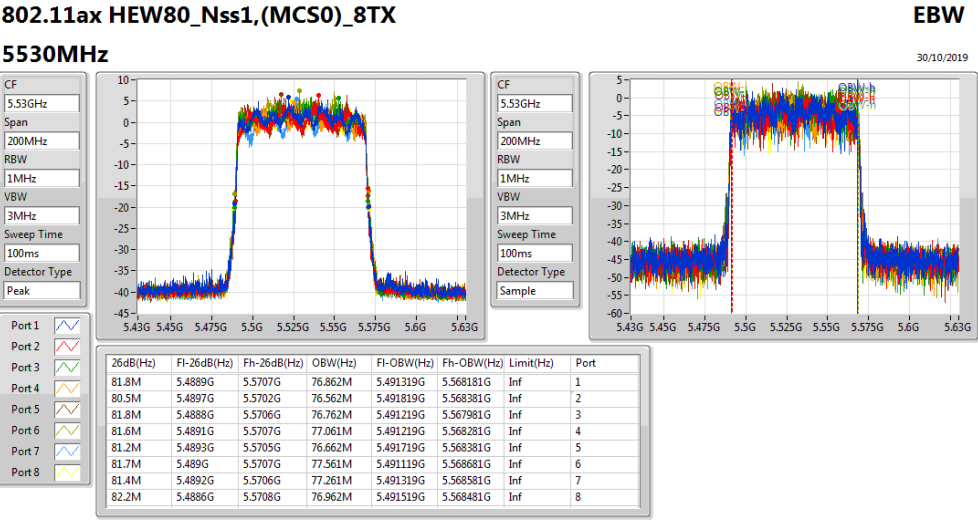


802.11ax HEW20_Nss1,(MCS0)_8TX

EBW









Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.25-5.35GHz	-	-	-	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_8TX	21.75M	18.951M	19M0D1D	21.03M	18.801M
802.11ax HEW40-BF_Nss1,(MCS0)_8TX	41.76M	37.841M	37M8D1D	40.26M	37.541M
802.11ax HEW80-BF_Nss1,(MCS0)_8TX	82.44M	77.241M	77M2D1D	80.76M	76.762M
5.47-5.725GHz	-	-	-	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_8TX	21.99M	19.01M	19M0D1D	15.465M	14.333M
802.11ax HEW40-BF_Nss1,(MCS0)_8TX	41.28M	37.961M	38M0D1D	35.07M	33.513M
802.11ax HEW80-BF_Nss1,(MCS0)_8TX	82.68M	77.481M	77M5D1D	75.15M	72.114M
5.725-5.85GHz	-	-	-	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_8TX	4.52M	4.558M	4M56D1D	4.04M	4.498M
802.11ax HEW40-BF_Nss1,(MCS0)_8TX	4.12M	4.138M	4M14D1D	2.68M	4.038M
802.11ax HEW80-BF_Nss1,(MCS0)_8TX	4.04M	4.278M	4M28D1D	3.78M	4.058M

Max-N dB = Maximum 6dB down bandwidth for UNII-3 band / Maximum 26dB down bandwidth for other band; Max-OBW = Maximum 99% occupied bandwidth;
Min-N dB = Minimum 6dB down bandwidth for UNII-3 band / Maximum 26dB down bandwidth for other band; Min-OBW = Minimum 99% occupied bandwidth;



Result

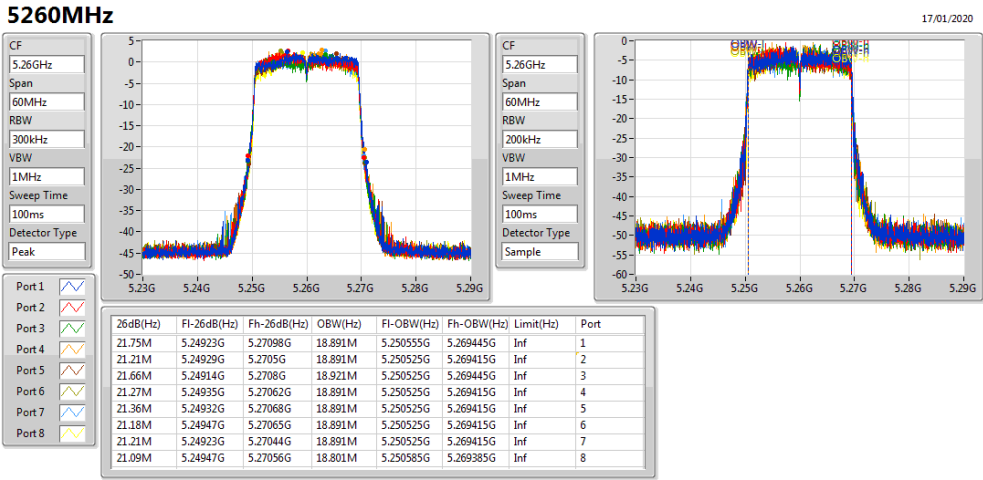
Mode	Result	Limit	Port 1-N dB	Port 1-OBW	Port 2-N dB	Port 2-OBW	Port 3-N dB	Port 3-OBW	Port 4-N dB	Port 4-OBW	Port 5-N dB	Port 5-OBW	Port 6-N dB	Port 6-OBW	Port 7-N dB	Port 7-OBW	Port 8-N dB	Port 8-OBW
		(Hz)	(Hz)	(Hz)	(Hz)	(Hz)	(Hz)	(Hz)	(Hz)	(Hz)	(Hz)	(Hz)	(Hz)	(Hz)	(Hz)	(Hz)	(Hz)	(Hz)
802.11ax HEW20-BF_Nss1,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5260MHz	Pass	Inf	21.75M	18.891M	21.21M	18.891M	21.66M	18.921M	21.27M	18.891M	21.36M	18.891M	21.18M	18.891M	21.21M	18.891M	21.09M	18.801M
5300MHz	Pass	Inf	21.42M	18.891M	21.54M	18.921M	21.39M	18.951M	21.33M	18.921M	21.27M	18.891M	21.75M	18.921M	21.12M	18.831M	21.42M	18.951M
5320MHz	Pass	Inf	21.21M	18.891M	21.21M	18.861M	21.63M	18.921M	21.3M	18.861M	21.45M	18.921M	21.03M	18.861M	21.24M	18.891M	21.51M	18.951M
5500MHz	Pass	Inf	21.36M	18.801M	21.27M	18.981M	21.48M	18.891M	20.94M	18.771M	20.61M	18.711M	21.36M	18.951M	21.3M	18.861M	21.54M	18.951M
5580MHz	Pass	Inf	21.75M	18.981M	21.78M	18.951M	21.09M	18.891M	20.91M	18.771M	21.51M	18.951M	21.39M	18.951M	21.57M	18.951M	21.45M	18.831M
5700MHz	Pass	Inf	20.43M	18.591M	21.03M	18.831M	21.99M	19.01M	21.21M	18.921M	20.61M	18.711M	20.79M	18.711M	21.09M	18.921M	21.42M	18.891M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	15.9M	14.453M	15.48M	14.453M	15.66M	14.483M	15.465M	14.333M	15.51M	14.393M	15.465M	14.483M	15.795M	14.453M	15.555M	14.438M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	4.52M	4.518M	4.4M	4.518M	4.5M	4.538M	4.04M	4.498M	4.34M	4.518M	4.34M	4.498M	4.5M	4.558M	4.46M	4.518M
802.11ax HEW40-BF_Nss1,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5270MHz	Pass	Inf	41.46M	37.841M	40.8M	37.721M	40.8M	37.721M	40.98M	37.661M	41.22M	37.721M	40.56M	37.721M	40.98M	37.781M	40.26M	37.541M
5310MHz	Pass	Inf	41.76M	37.781M	40.8M	37.721M	40.32M	37.721M	40.8M	37.721M	40.86M	37.721M	40.74M	37.661M	40.86M	37.841M	40.38M	37.541M
5510MHz	Pass	Inf	40.92M	37.601M	40.62M	37.301M	40.44M	37.661M	40.56M	37.661M	40.02M	37.421M	40.98M	37.901M	41.28M	37.601M	40.92M	37.841M
5550MHz	Pass	Inf	40.5M	37.601M	40.5M	37.361M	40.68M	37.661M	40.86M	37.661M	40.14M	37.361M	40.8M	37.841M	40.74M	37.781M	40.62M	37.661M
5670MHz	Pass	Inf	40.26M	37.541M	40.56M	37.541M	40.32M	37.601M	40.44M	37.661M	41.22M	37.601M	40.5M	37.961M	40.2M	37.841M	40.8M	37.661M
5710MHz Straddle 5.47-5.725GHz	Pass	Inf	35.07M	33.618M	35.595M	33.723M	36.12M	33.758M	35.385M	33.758M	35.245M	33.513M	35.63M	33.863M	35.14M	33.723M	35.315M	33.723M
5710MHz Straddle 5.725-5.85GHz	Pass	500k	3.86M	4.058M	4.12M	4.098M	2.68M	4.038M	3.86M	4.078M	4.02M	4.138M	4.06M	4.078M	4M	4.078M	4.04M	4.078M
802.11ax HEW80-BF_Nss1,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5290MHz	Pass	Inf	81.36M	76.882M	81.24M	77.001M	81.48M	77.001M	81.36M	77.241M	82.44M	77.241M	81M	76.882M	81.36M	77.241M	80.76M	76.762M
5530MHz	Pass	Inf	80.88M	76.882M	81.12M	76.282M	82.08M	77.121M	81.36M	76.882M	81.12M	76.642M	81.6M	77.361M	81.24M	77.121M	82.68M	77.241M
5610MHz	Pass	Inf	81M	77.001M	81.48M	76.642M	81M	76.882M	81.24M	76.882M	81.48M	76.642M	81.6M	77.481M	81.24M	77.361M	81.36M	77.001M
5690MHz Straddle 5.47-5.725GHz	Pass	Inf	75.75M	73.088M	75.6M	72.639M	75.825M	73.238M	75.975M	73.238M	75.15M	72.114M	75.6M	73.313M	75.675M	72.864M	75.45M	73.163M
5690MHz Straddle 5.725-5.85GHz	Pass	500k	3.78M	4.058M	3.98M	4.118M	3.8M	4.078M	4.02M	4.278M	4.04M	4.178M	3.94M	4.118M	4.02M	4.178M	4M	4.138M

Port X-N dB = Port X 6dB down bandwidth for UNII-3 band / 26dB down bandwidth for other band; Port X-OBW = Port X 99% occupied bandwidth;



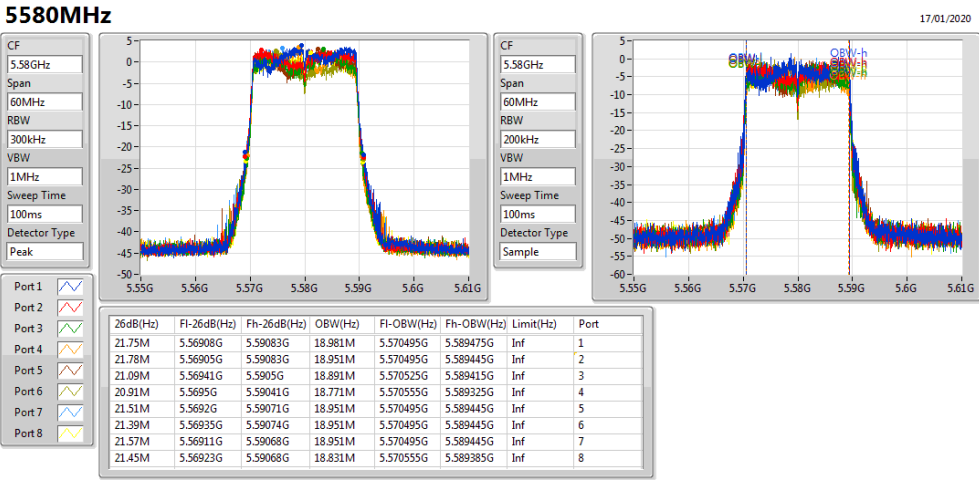
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EBW



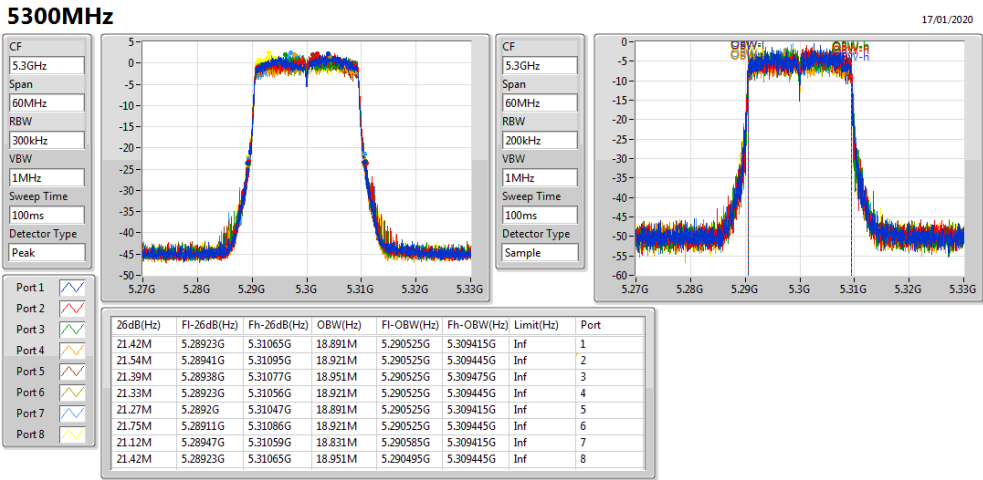
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EBW



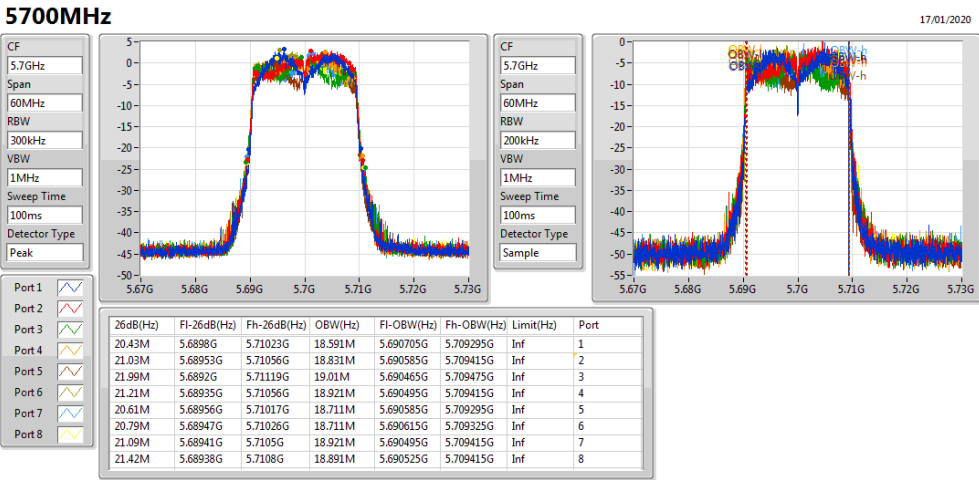
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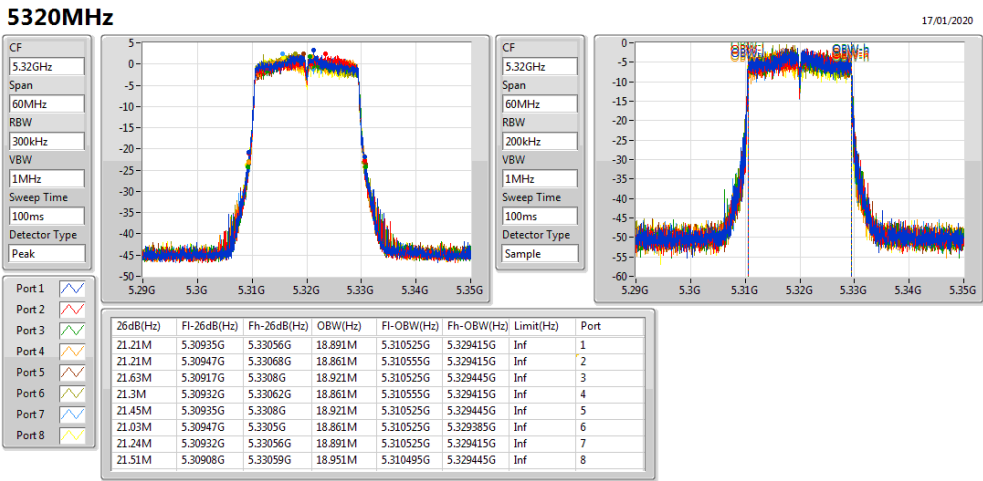
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EBW



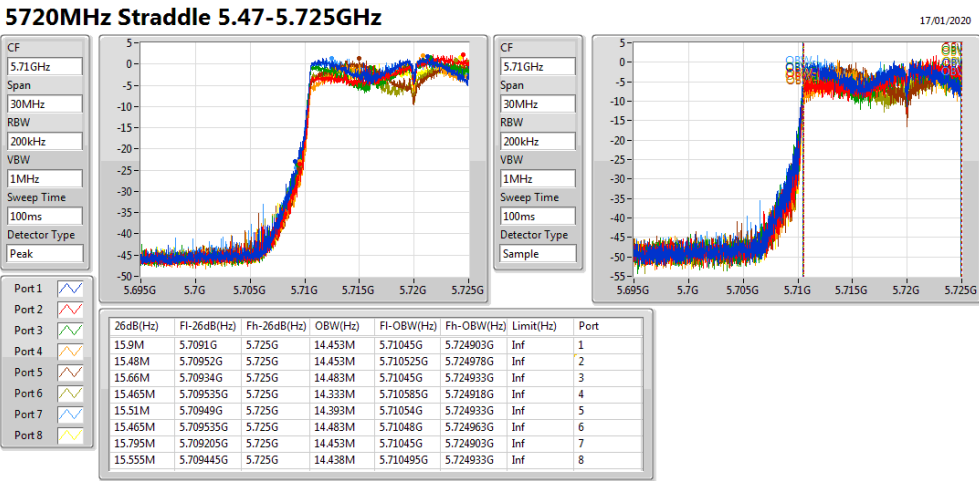
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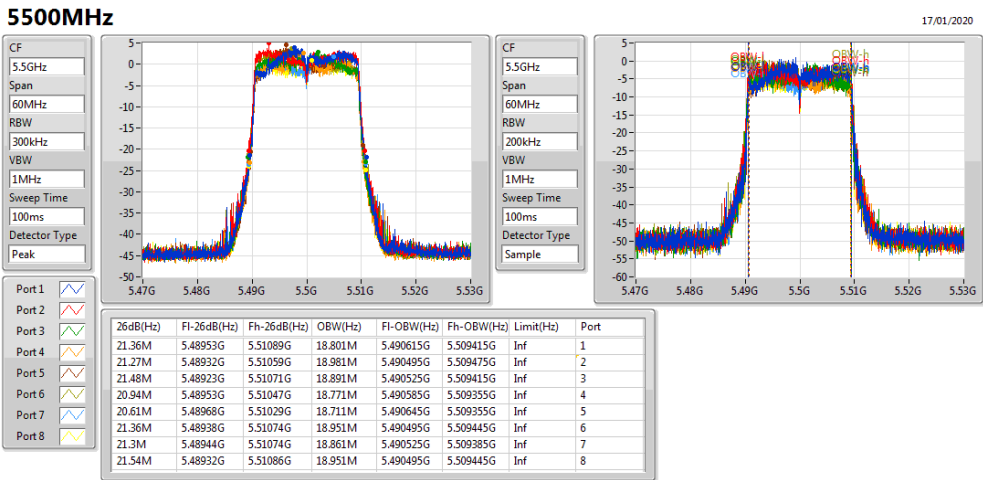
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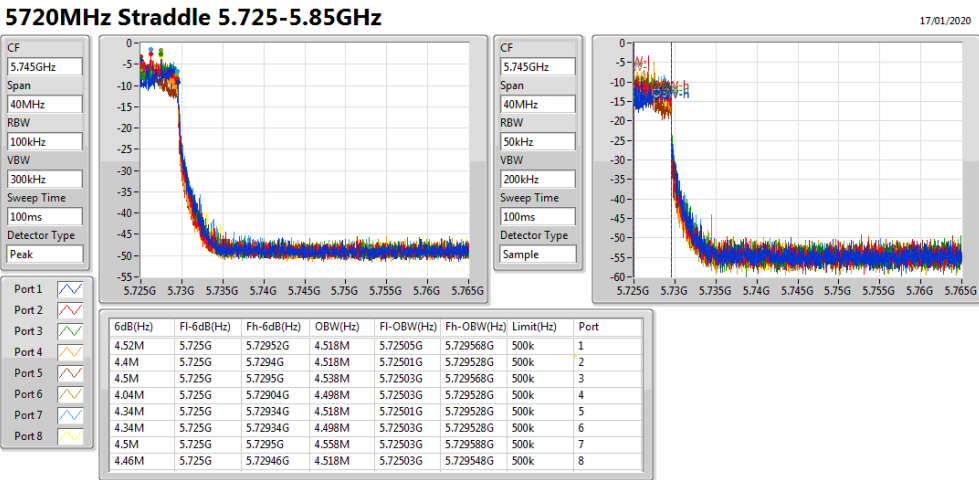
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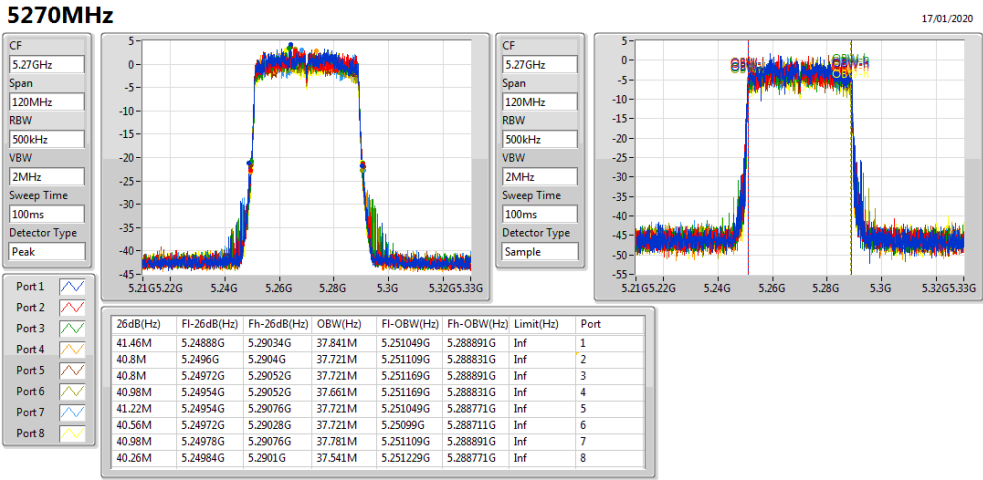
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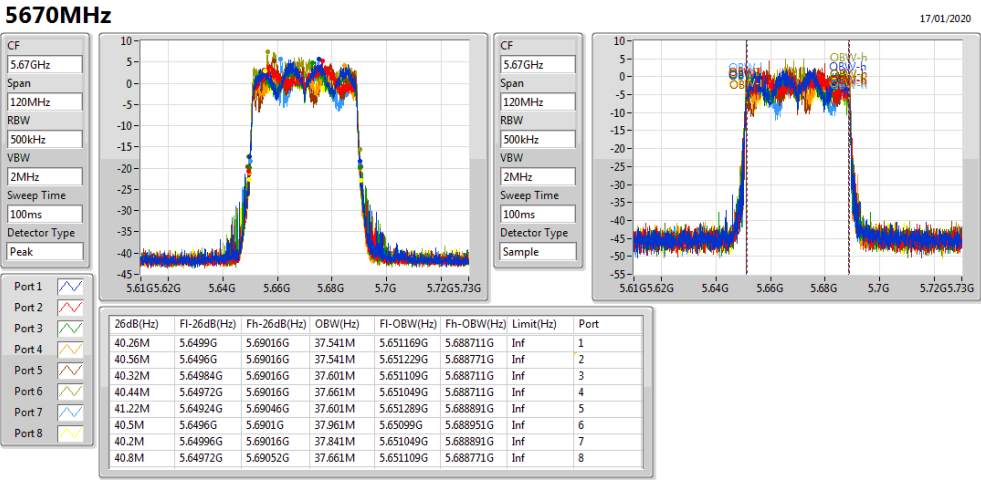
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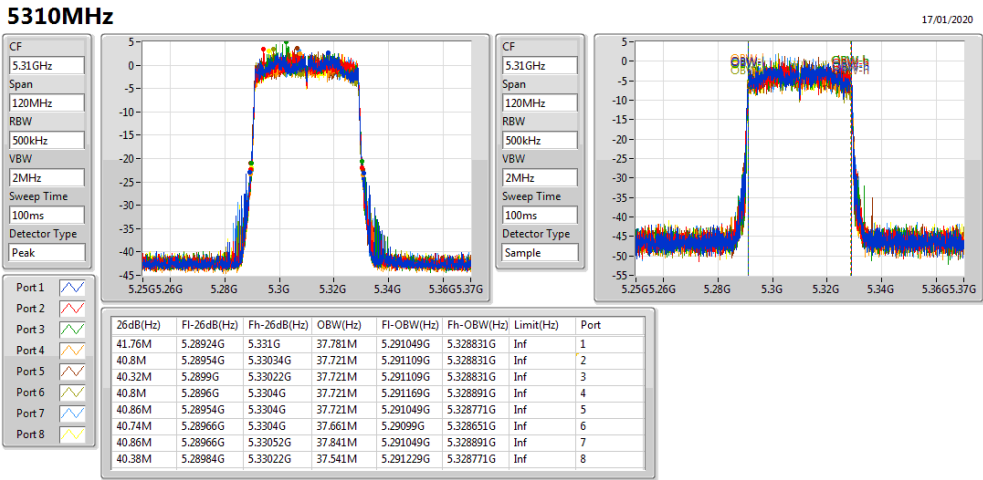
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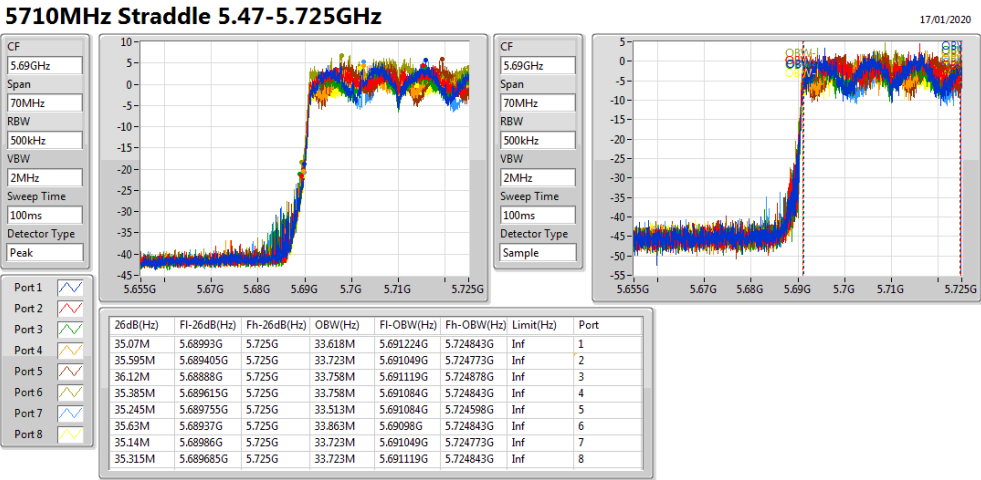
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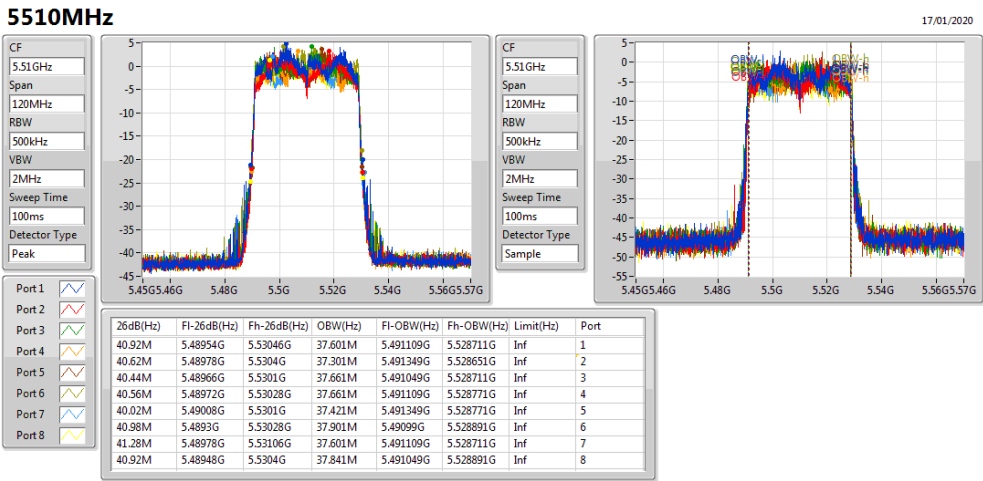
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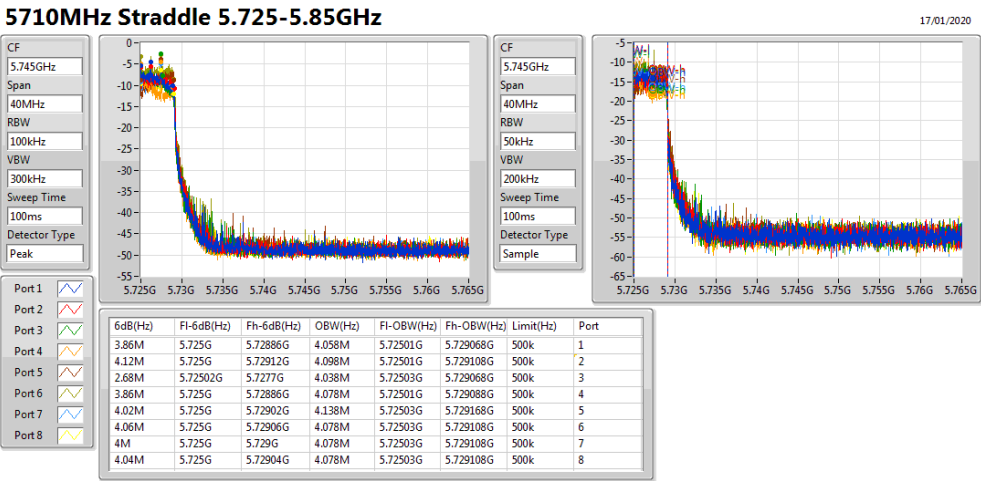
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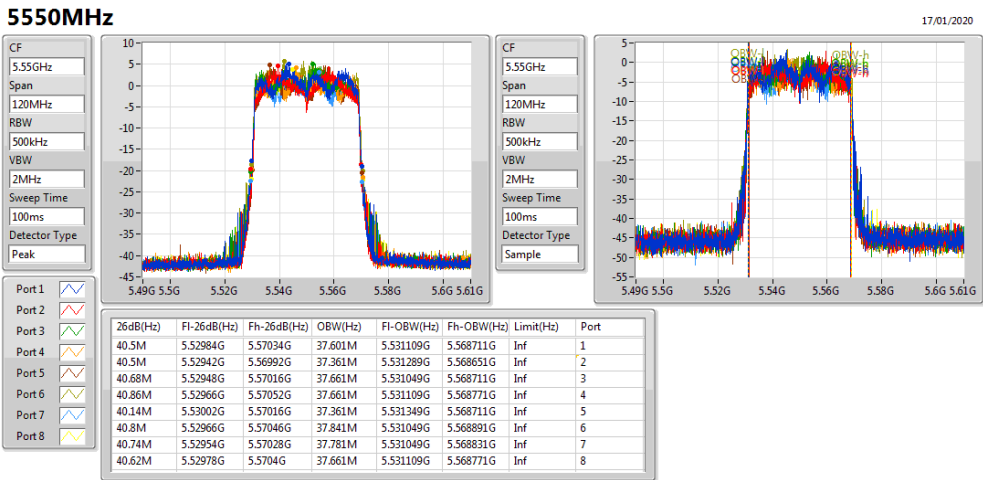
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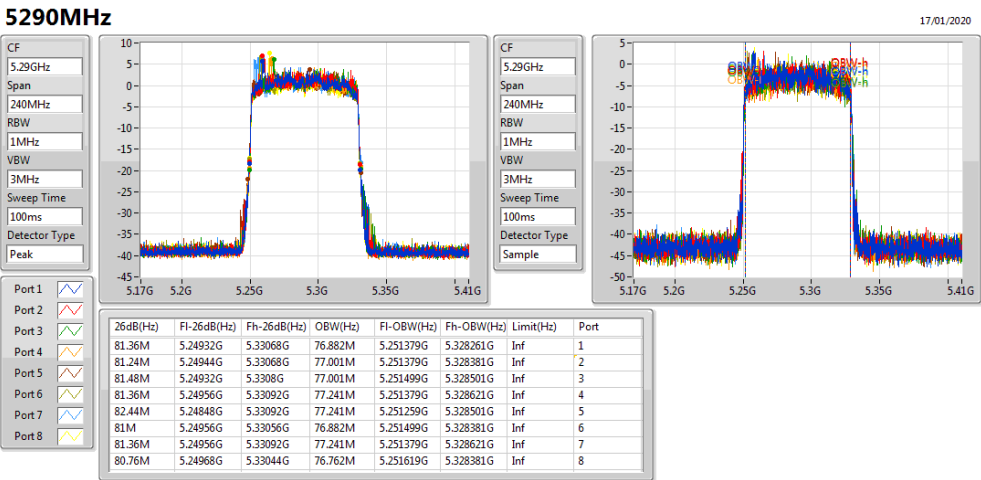
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802.11ax HEW80-BF_Nss1,(MCS0)_8TX

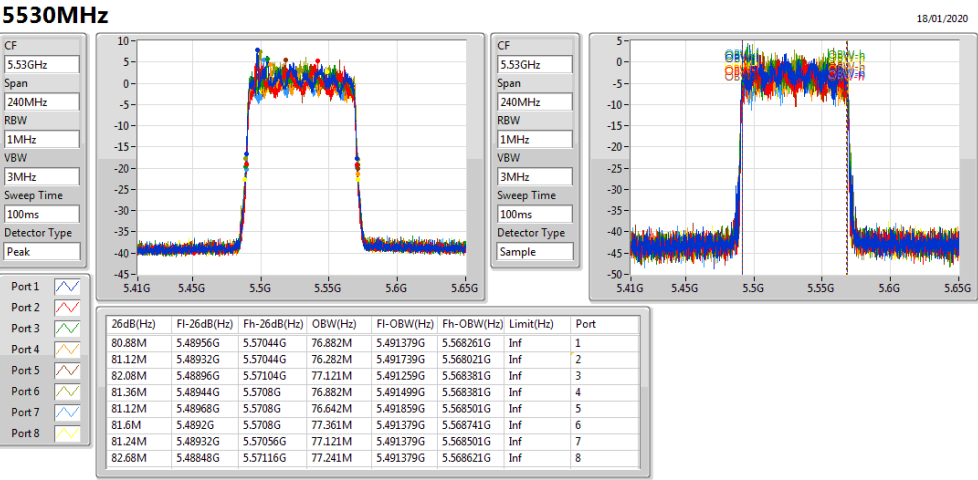
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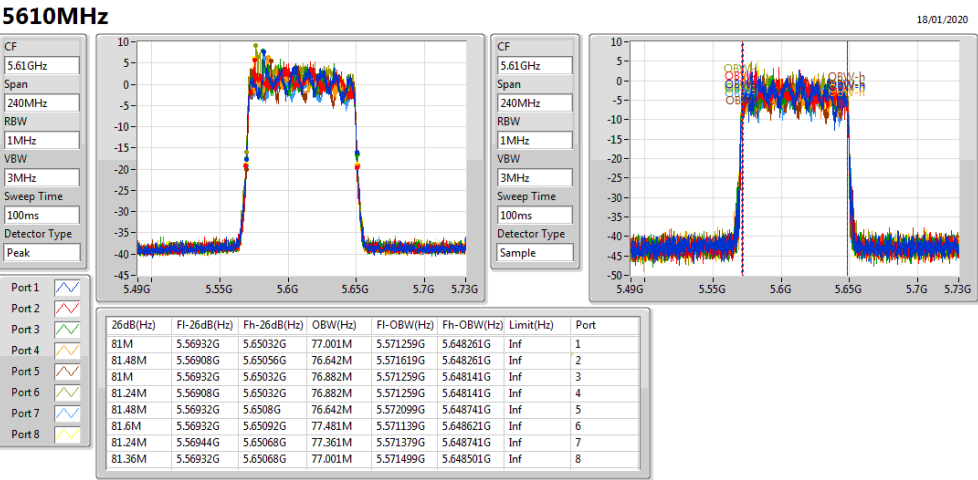
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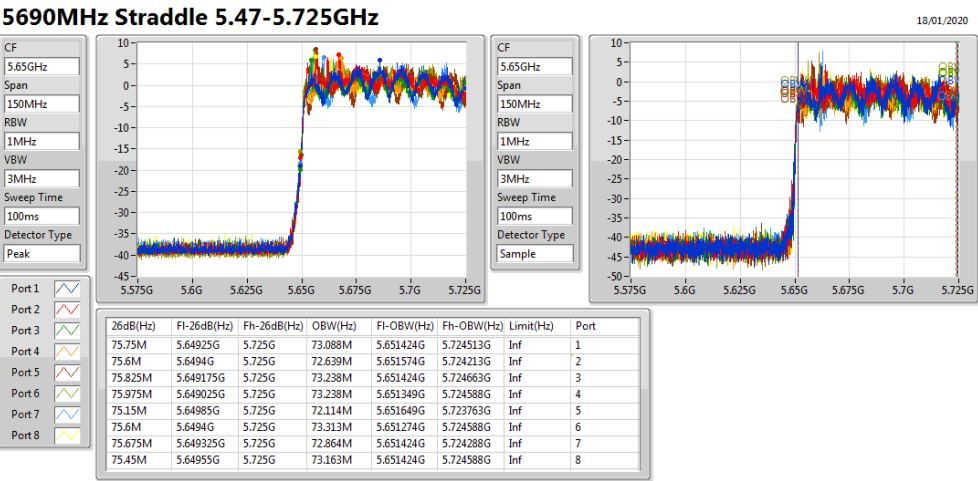
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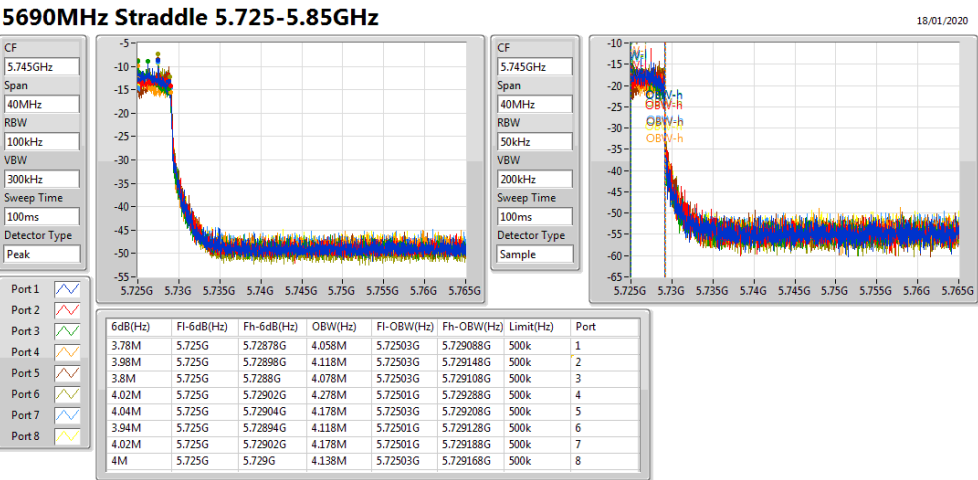
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EBW



802.11ax HEW80-BF_Nss1,(MCS0)_8TX

EBW





Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.25-5.35GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	19.32M	16.432M	16M4D1D	18.51M	16.282M
802.11ax HEW20_Nss1,(MCS0)_4TX	21.57M	18.981M	19M0D1D	20.55M	18.831M
802.11ax HEW40_Nss1,(MCS0)_4TX	40.98M	37.781M	37M8D1D	40.38M	37.481M
802.11ax HEW80_Nss1,(MCS0)_4TX	82.68M	77.121M	77M1D1D	81.96M	77.001M
5.47-5.725GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	19.65M	16.522M	16M5D1D	14.175M	13.073M
802.11ax HEW20_Nss1,(MCS0)_4TX	21.6M	19.04M	19M0D1D	15.105M	14.168M
802.11ax HEW40_Nss1,(MCS0)_4TX	40.68M	37.661M	37M7D1D	35.105M	33.618M
802.11ax HEW80_Nss1,(MCS0)_4TX	141.48M	77.601M	77M6D1D	76.05M	73.013M
5.725-5.85GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	3.16M	3.378M	3M38D1D	2.86M	3.278M
802.11ax HEW20_Nss1,(MCS0)_4TX	4.56M	4.518M	4M52D1D	3.82M	4.458M
802.11ax HEW40_Nss1,(MCS0)_4TX	4.12M	4.058M	4M06D1D	3.86M	4.018M
802.11ax HEW80_Nss1,(MCS0)_4TX	4.04M	23.328M	23M3D1D	3.3M	14.373M

Max-N dB = Maximum 6dB down bandwidth for UNII-3 band / Maximum 26dB down bandwidth for other band; Max-OBW = Maximum 99% occupied bandwidth;
Min-N dB = Minimum 6dB down bandwidth for UNII-3 band / Maximum 26dB down bandwidth for other band; Min-OBW = Minimum 99% occupied bandwidth;



Result

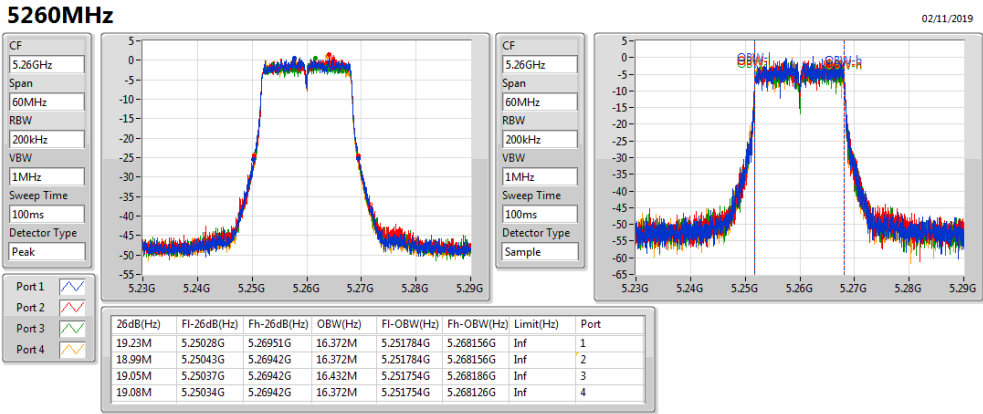
Mode	Result	Limit	Port 1-N dB	Port 1-OBW	Port 2-N dB	Port 2-OBW	Port 3-N dB	Port 3-OBW	Port 4-N dB	Port 4-OBW
		(Hz)	(Hz)	(Hz)	(Hz)	(Hz)	(Hz)	(Hz)	(Hz)	(Hz)
802.11a_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-	-	-
5260MHz	Pass	Inf	19.23M	16.372M	18.99M	16.372M	19.05M	16.432M	19.08M	16.372M
5300MHz	Pass	Inf	18.9M	16.402M	18.51M	16.282M	18.84M	16.342M	19.08M	16.372M
5320MHz	Pass	Inf	19.11M	16.402M	18.66M	16.282M	19.32M	16.432M	19.05M	16.372M
5500MHz	Pass	Inf	18.96M	16.372M	19.23M	16.462M	18.84M	16.402M	18.6M	16.312M
5580MHz	Pass	Inf	18.9M	16.282M	19.65M	16.492M	18.3M	16.252M	18.6M	16.342M
5700MHz	Pass	Inf	18.27M	16.162M	18.66M	16.372M	18.9M	16.522M	18.78M	16.372M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	14.175M	13.073M	14.58M	13.163M	14.385M	13.133M	14.61M	13.163M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	2.86M	3.278M	3.16M	3.358M	3.12M	3.298M	3.12M	3.378M
802.11ax HEW20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5260MHz	Pass	Inf	21.06M	18.951M	20.94M	18.891M	21.15M	18.891M	20.94M	18.921M
5300MHz	Pass	Inf	20.82M	18.921M	21.27M	18.921M	21.18M	18.981M	21.57M	18.921M
5320MHz	Pass	Inf	21.39M	18.891M	20.55M	18.831M	21.48M	18.861M	20.91M	18.921M
5500MHz	Pass	Inf	21M	18.831M	21.36M	18.981M	21.06M	18.831M	21.39M	18.981M
5580MHz	Pass	Inf	20.97M	18.951M	20.46M	18.771M	20.73M	18.771M	20.91M	18.951M
5700MHz	Pass	Inf	21.45M	18.981M	21M	18.831M	21.6M	19.04M	20.79M	18.771M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	15.375M	14.438M	15.6M	14.423M	15.105M	14.168M	15.12M	14.333M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	4.56M	4.518M	4.48M	4.518M	4.12M	4.478M	3.82M	4.458M
802.11ax HEW40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5270MHz	Pass	Inf	40.38M	37.661M	40.44M	37.541M	40.5M	37.661M	40.98M	37.661M
5310MHz	Pass	Inf	40.62M	37.661M	40.44M	37.481M	40.62M	37.781M	40.68M	37.781M
5510MHz	Pass	Inf	40.56M	37.661M	39.84M	37.481M	40.26M	37.601M	40.38M	37.541M
5550MHz	Pass	Inf	40.62M	37.661M	40.14M	37.361M	40.62M	37.661M	40.68M	37.601M
5670MHz	Pass	Inf	40.38M	37.481M	40.56M	37.541M	40.5M	37.481M	40.26M	37.601M
5710MHz Straddle 5.47-5.725GHz	Pass	Inf	35.105M	33.618M	35.315M	33.653M	35.525M	33.758M	35.28M	33.688M
5710MHz Straddle 5.725-5.85GHz	Pass	500k	3.86M	4.018M	4.12M	4.038M	4.1M	4.058M	4.06M	4.038M
802.11ax HEW80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5290MHz	Pass	Inf	82.68M	77.001M	82.32M	77.121M	81.96M	77.121M	82.32M	77.121M
5530MHz	Pass	Inf	82.08M	77.001M	81M	76.282M	82.08M	77.001M	81.48M	76.762M
5610MHz	Pass	Inf	141.48M	77.601M	105.36M	76.882M	96.24M	77.361M	81.84M	77.001M
5690MHz Straddle 5.47-5.725GHz	Pass	Inf	76.275M	73.463M	76.65M	73.013M	79.275M	73.388M	76.05M	73.538M
5690MHz Straddle 5.725-5.85GHz	Pass	500k	4.04M	19.13M	4.02M	23.328M	3.3M	22.609M	4M	14.373M

Port X-N dB = Port X 6dB down bandwidth for UNII-3 band / 26dB down bandwidth for other band; Port X-OBW = Port X 99% occupied bandwidth;



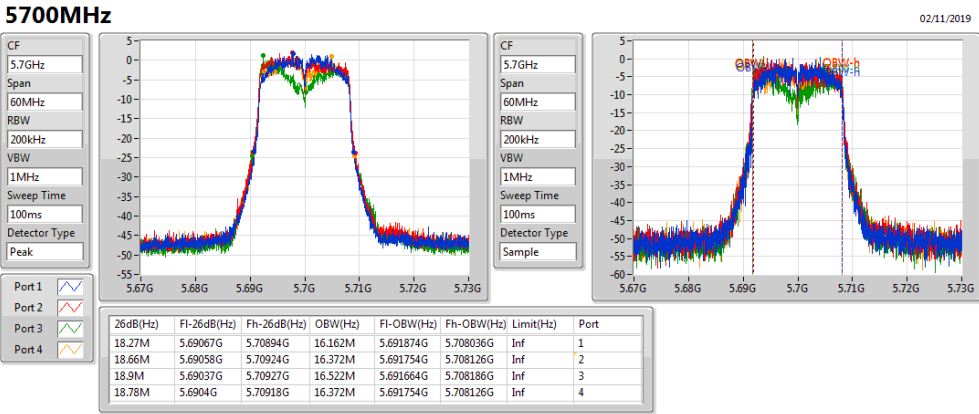
802.11a_Nss1,(6Mbps)_4TX

EBW



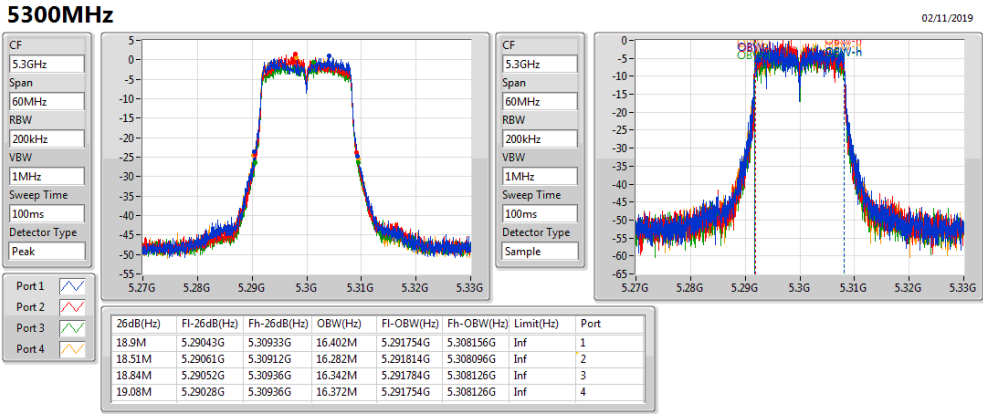
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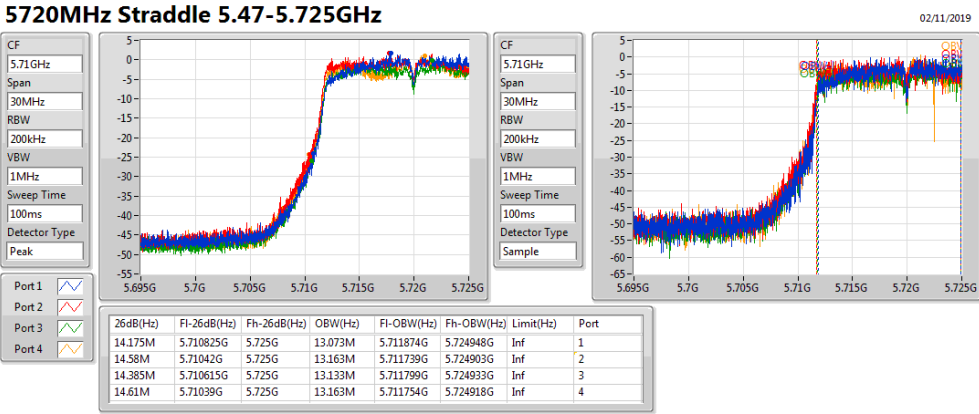
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EBW



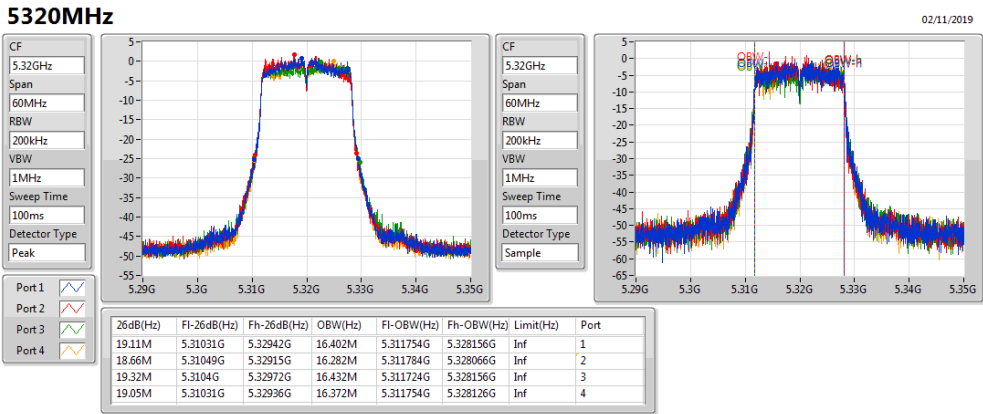
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EBW



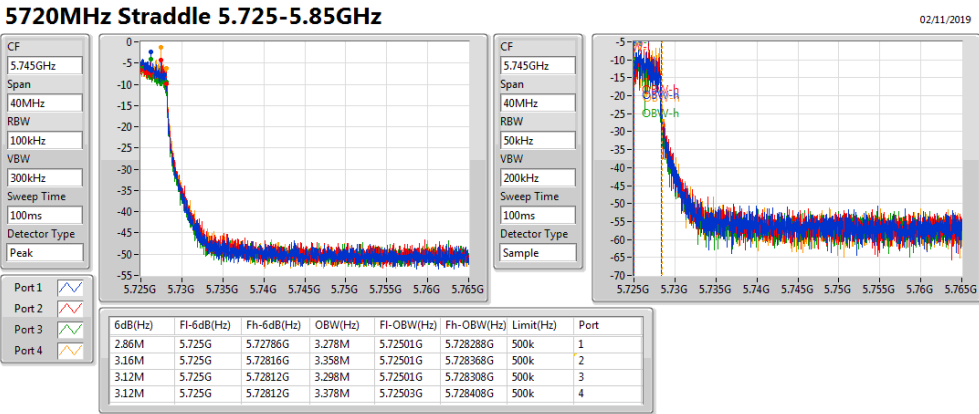
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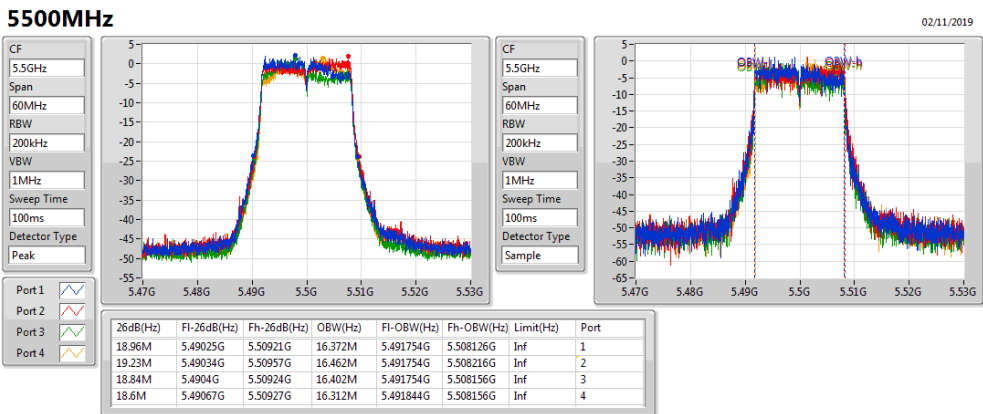
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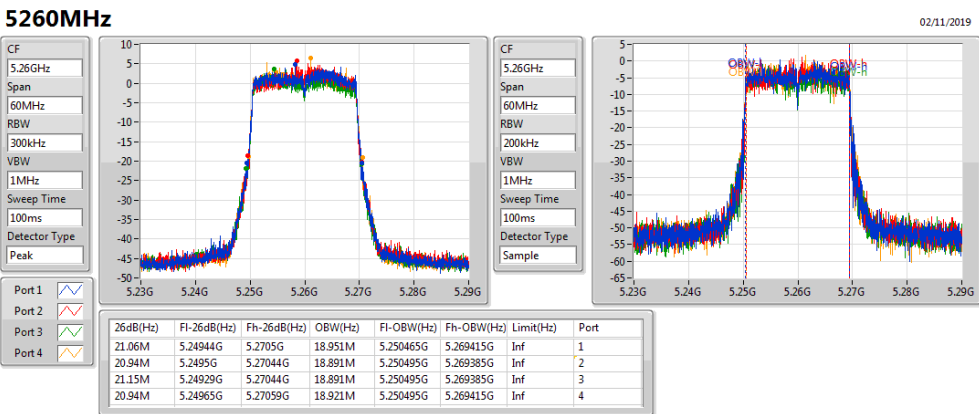
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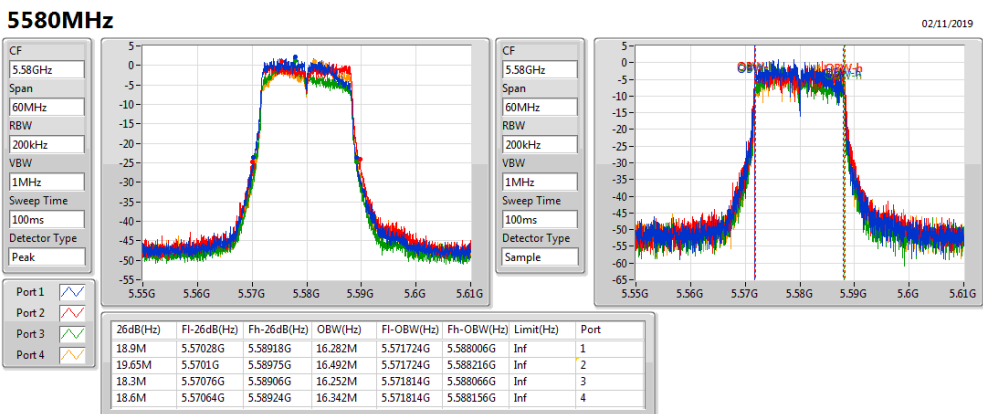
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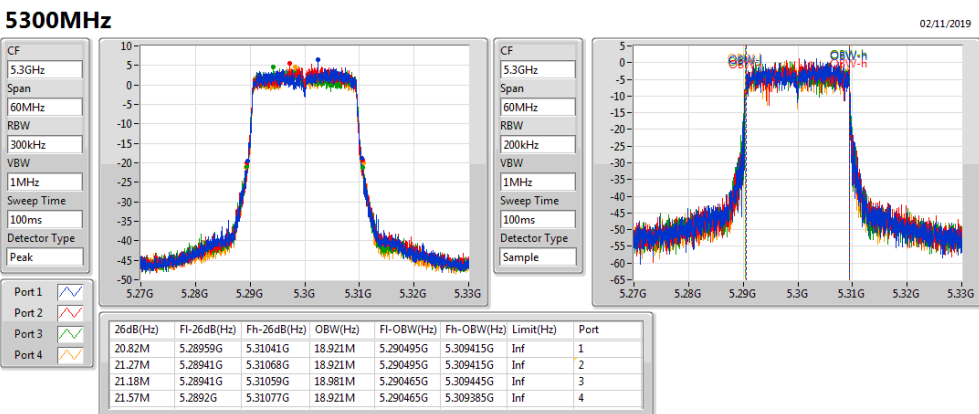
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802.11ax HEW20_Nss1,(MCS0)_4TX

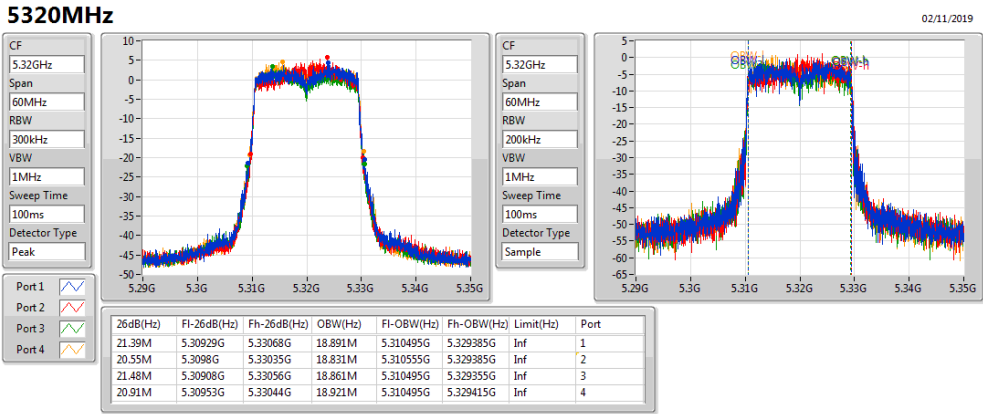
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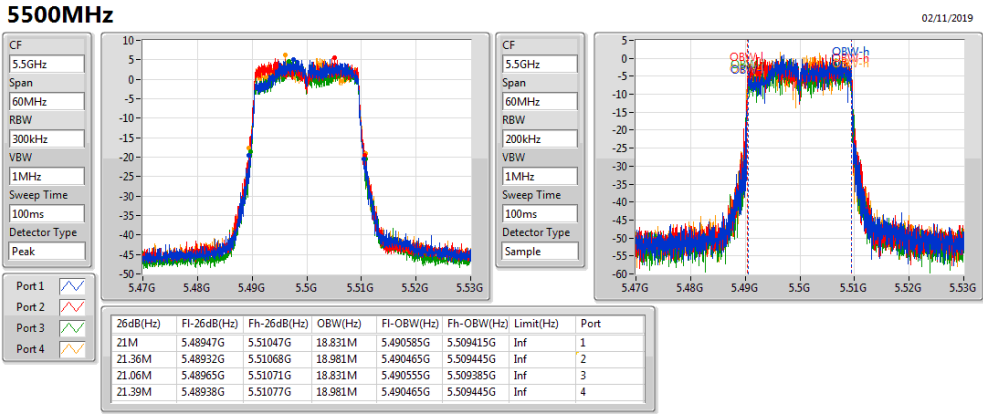
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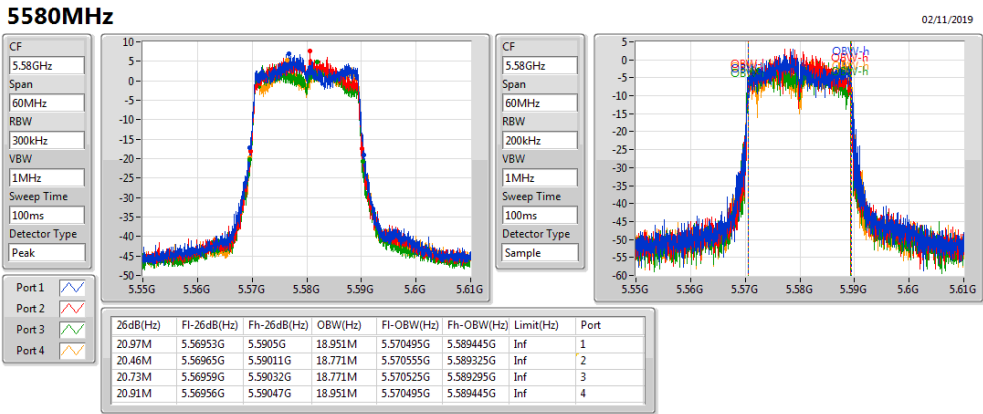
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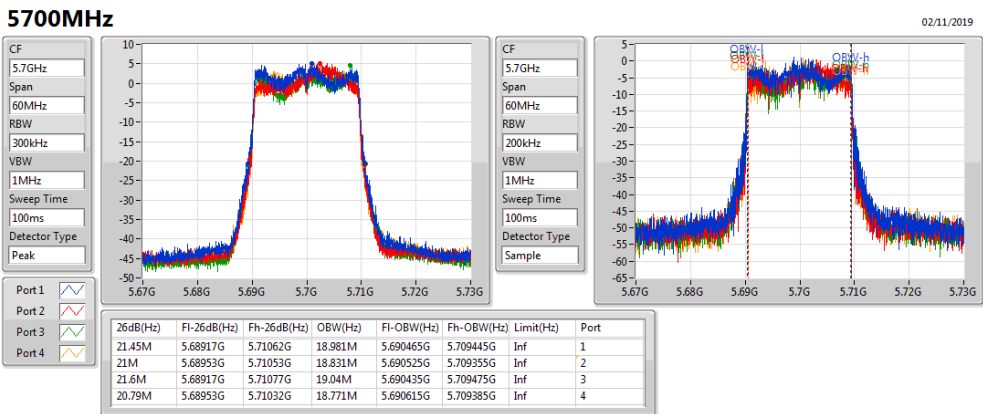
802.11ax HEW20_Nss1,(MCS0)_4TX

EBW



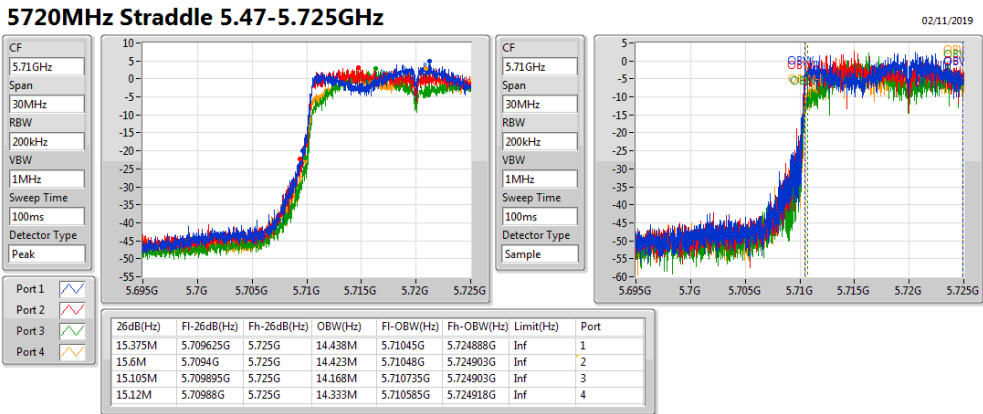
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EBW



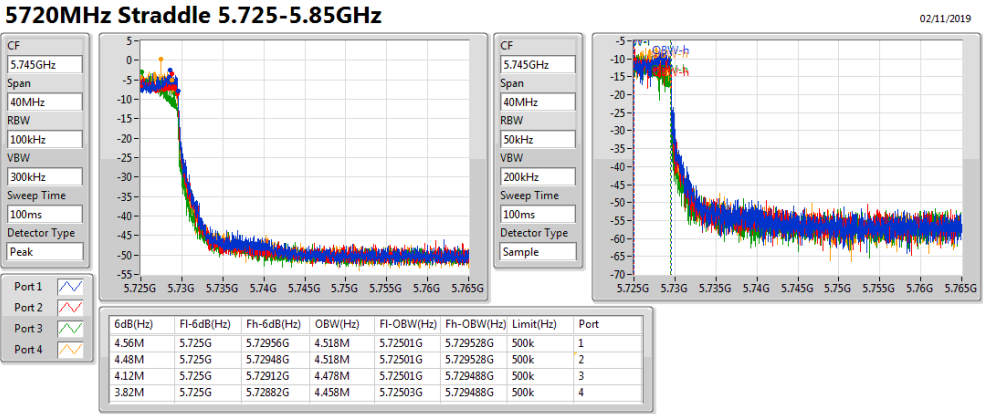
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EBW



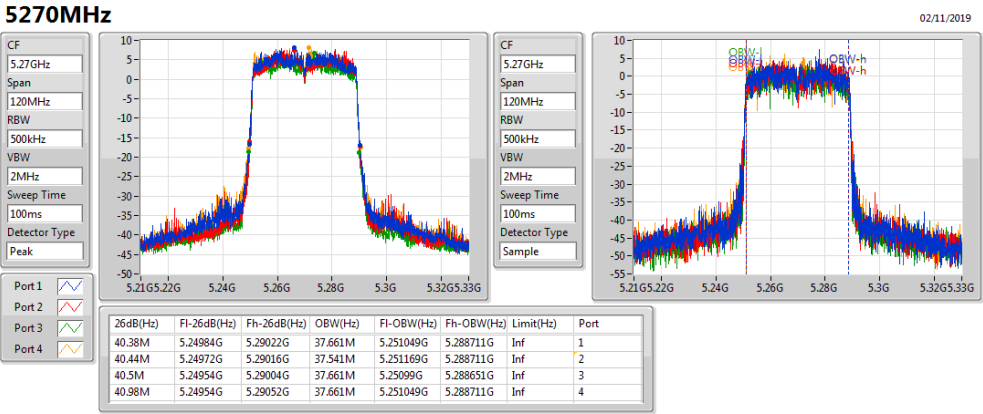
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EBW



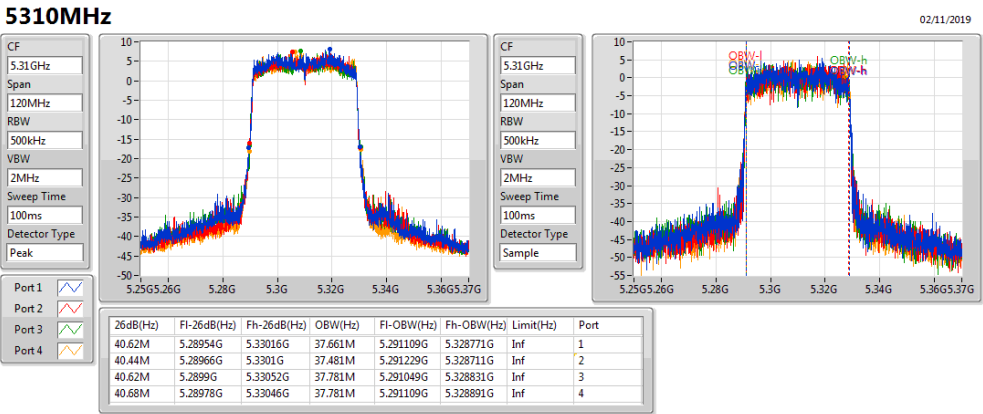
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EBW



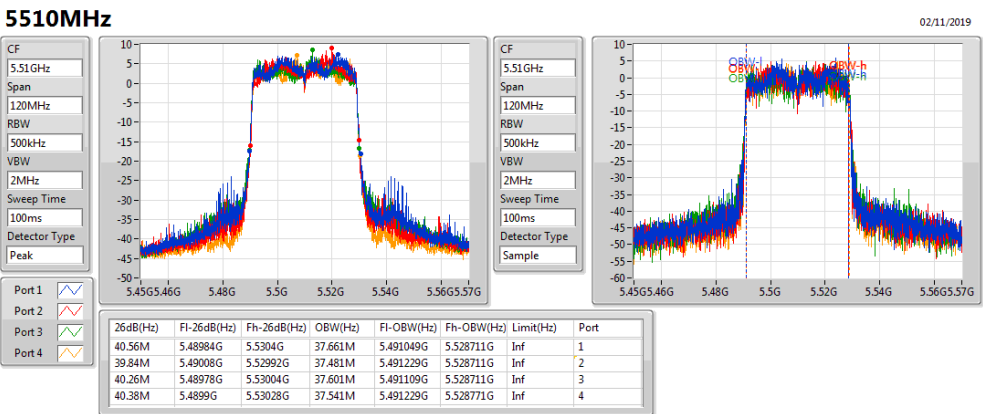
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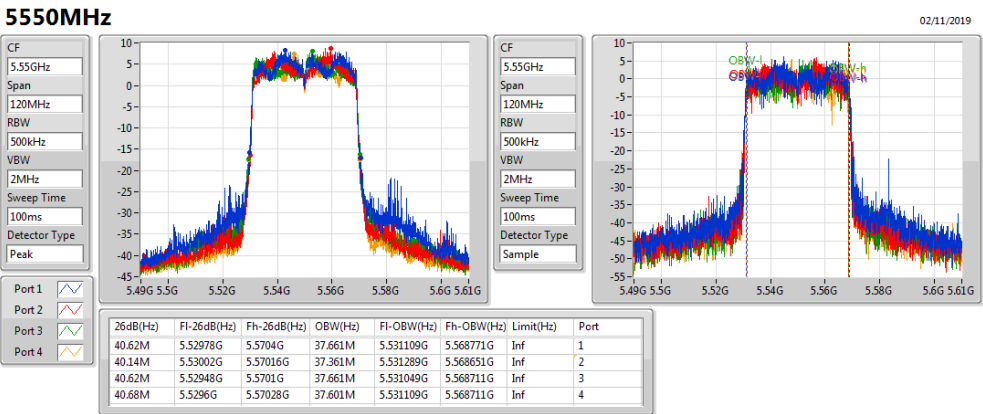
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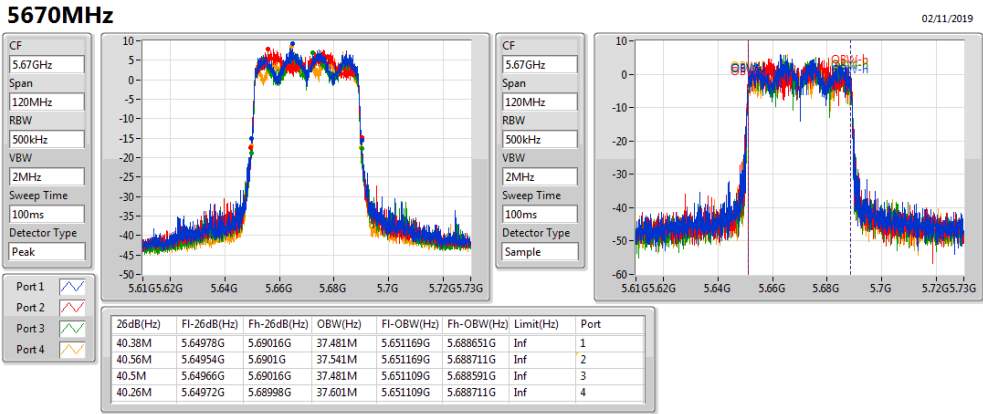
EBW





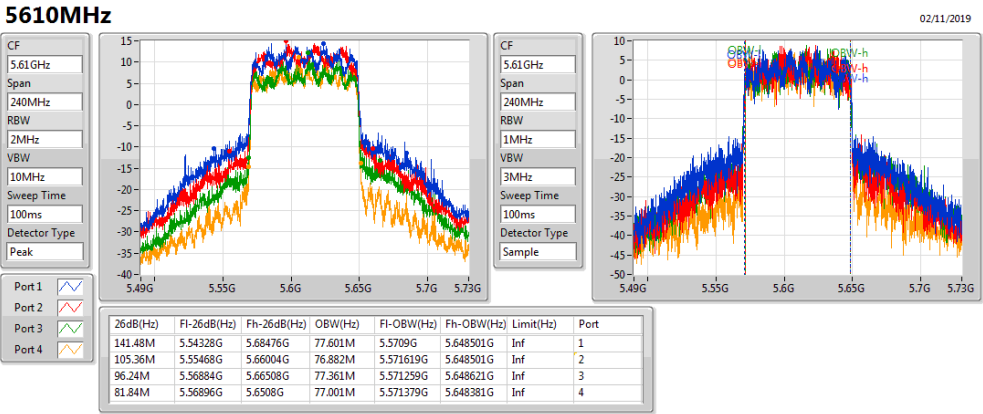
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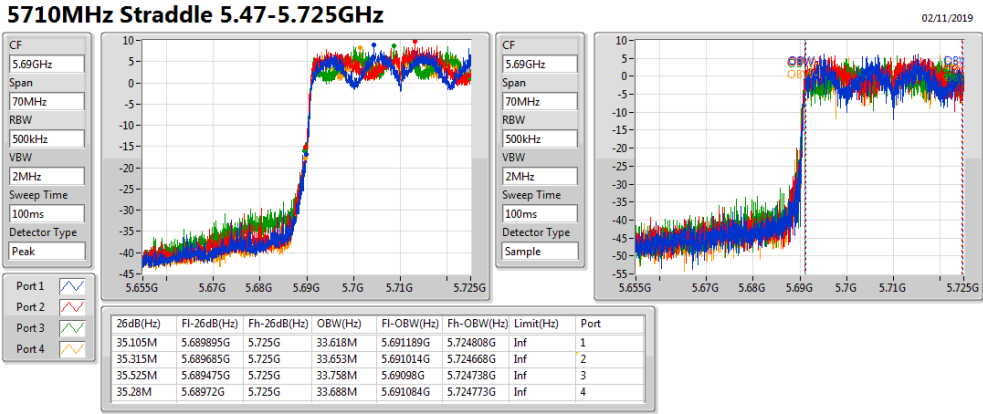
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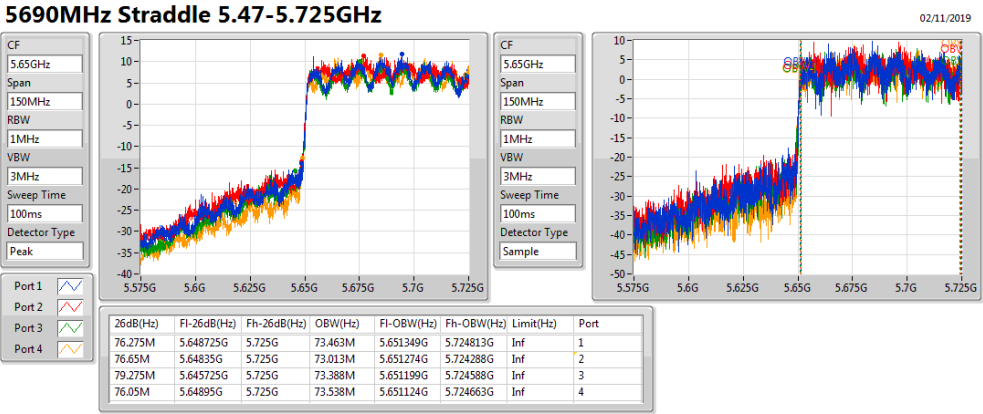
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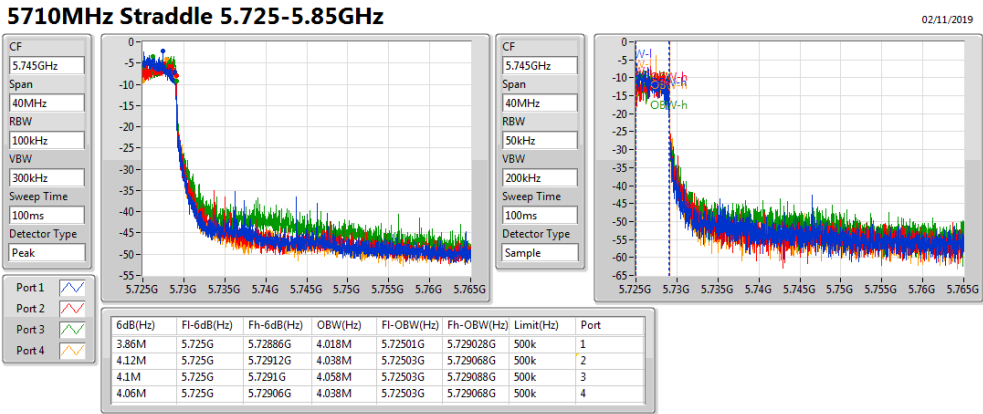
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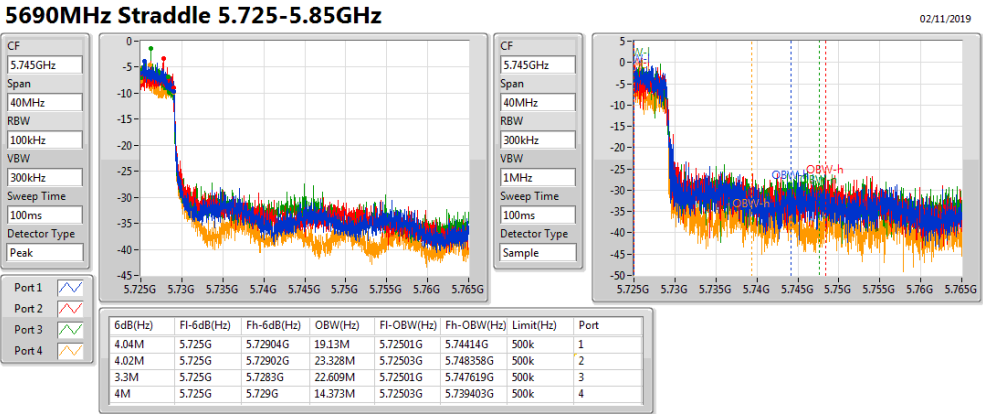
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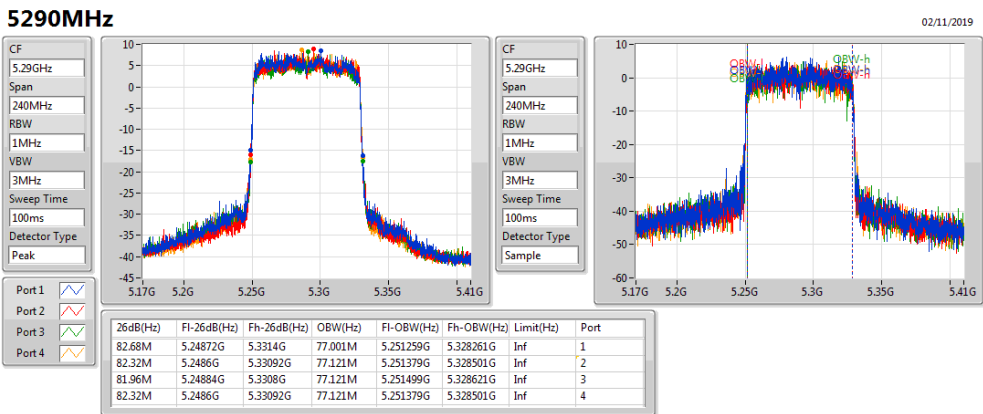
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EBW



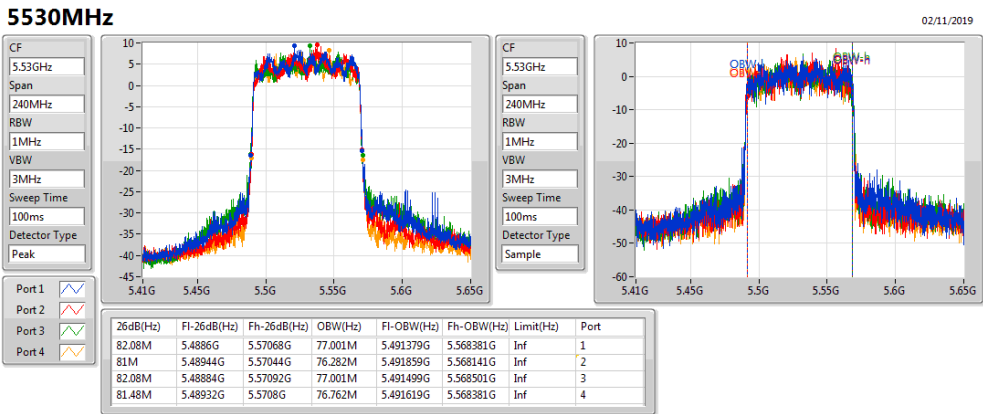
802.11ax HEW80_Nss1,(MCS0)_4TX

EBW



802.11ax HEW80_Nss1,(MCS0)_4TX

EBW





Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.25-5.35GHz	-	-	-	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	21.54M	18.951M	19M0D1D	20.76M	18.831M
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	41.7M	38.141M	38M1D1D	40.38M	37.601M
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	81.48M	77.001M	77M0D1D	81.12M	76.762M
5.47-5.725GHz	-	-	-	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	21.63M	19.1M	19M1D1D	15.645M	14.378M
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	45.863M	37.781M	37M8D1D	35.775M	33.696M
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	81.84M	77.241M	77M2D1D	75.795M	72.969M
5.725-5.85GHz	-	-	-	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	4.53M	4.708M	4M71D1D	4.395M	4.663M
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	4.11M	5.472M	5M47D1D	3.735M	4.288M
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	4.08M	6.912M	6M91D1D	4.035M	4.258M

Max-N dB = Maximum 6dB down bandwidth for UNII-3 band / Maximum 26dB down bandwidth for other band; Max-OBW = Maximum 99% occupied bandwidth;
Min-N dB = Minimum 6dB down bandwidth for UNII-3 band / Maximum 26dB down bandwidth for other band; Min-OBW = Minimum 99% occupied bandwidth;



Result

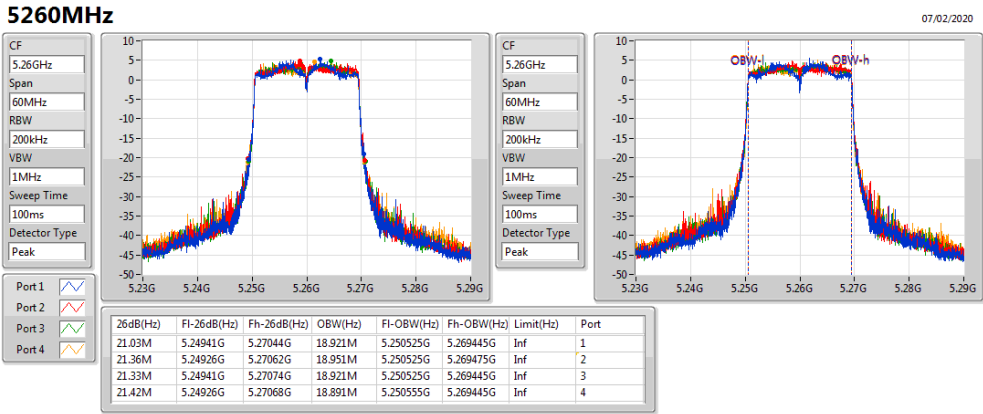
Mode	Result	Limit	Port 1-N dB	Port 1-OBW	Port 2-N dB	Port 2-OBW	Port 3-N dB	Port 3-OBW	Port 4-N dB	Port 4-OBW
		(Hz)	(Hz)	(Hz)	(Hz)	(Hz)	(Hz)	(Hz)	(Hz)	(Hz)
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5260MHz	Pass	Inf	21.03M	18.921M	21.36M	18.951M	21.33M	18.921M	21.42M	18.891M
5300MHz	Pass	Inf	20.88M	18.831M	21.54M	18.951M	21.21M	18.891M	21.36M	18.921M
5320MHz	Pass	Inf	20.82M	18.921M	21.24M	18.831M	20.76M	18.831M	21.24M	18.891M
5500MHz	Pass	Inf	20.94M	18.951M	21.6M	18.951M	20.94M	18.801M	20.73M	18.861M
5580MHz	Pass	Inf	20.94M	18.831M	20.94M	18.891M	20.4M	18.711M	21.06M	18.801M
5700MHz	Pass	Inf	20.85M	18.831M	21.6M	19.1M	20.67M	18.891M	21.63M	19.07M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	15.96M	14.5M	15.645M	14.378M	16.048M	14.413M	15.733M	14.413M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	4.515M	4.663M	4.41M	4.708M	4.395M	4.663M	4.53M	4.708M
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5270MHz	Pass	Inf	40.5M	38.021M	40.56M	37.721M	41.7M	37.661M	41.1M	38.141M
5310MHz	Pass	Inf	40.38M	37.661M	40.8M	37.841M	41.16M	37.721M	40.74M	37.601M
5510MHz	Pass	Inf	41.46M	37.601M	40.92M	37.721M	40.92M	37.481M	43.38M	37.601M
5550MHz	Pass	Inf	40.74M	37.541M	40.56M	37.781M	40.38M	37.481M	40.38M	37.601M
5670MHz	Pass	Inf	41.58M	37.721M	40.5M	37.601M	40.44M	37.661M	40.8M	37.601M
5710MHz Straddle 5.47-5.725GHz	Pass	Inf	35.775M	33.808M	45.863M	33.771M	37.613M	33.733M	36.338M	33.696M
5710MHz Straddle 5.725-5.85GHz	Pass	500k	3.735M	4.363M	3.81M	4.288M	4.11M	5.472M	3.81M	4.378M
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5290MHz	Pass	Inf	81.24M	76.762M	81.48M	76.882M	81.12M	76.882M	81.12M	77.001M
5530MHz	Pass	Inf	80.88M	77.001M	81.12M	77.121M	81.12M	76.522M	81M	76.522M
5610MHz	Pass	Inf	81.24M	76.882M	81.84M	77.241M	80.88M	76.402M	81.48M	77.001M
5690MHz Straddle 5.47-5.725GHz	Pass	Inf	75.95M	73.201M	75.95M	73.278M	76.183M	72.969M	75.795M	73.123M
5690MHz Straddle 5.725-5.85GHz	Pass	500k	4.05M	4.318M	4.035M	4.378M	4.08M	6.912M	4.05M	4.258M

Port X-N dB = Port X 6dB down bandwidth for UNII-3 band / 26dB down bandwidth for other band; Port X-OBW = Port X 99% occupied bandwidth;



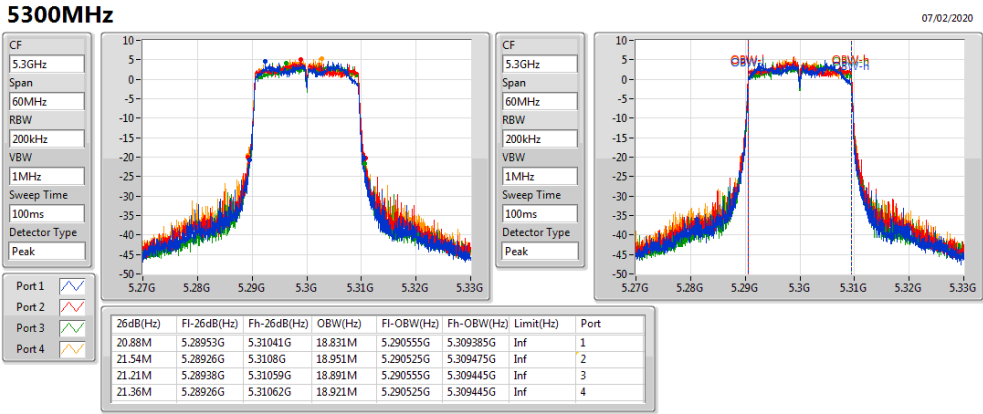
802.11ax HEW20-BF_Nss1,(MCS0)_4TX

EBW



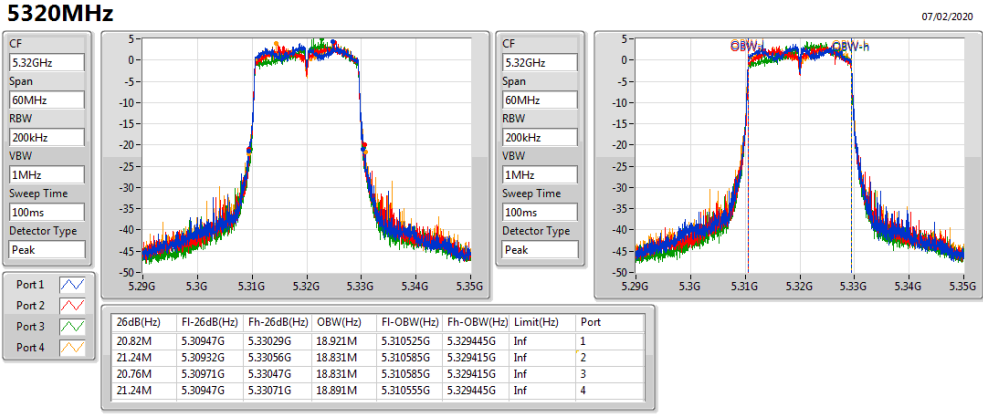
802.11ax HEW20-BF_Nss1,(MCS0)_4TX

EBW



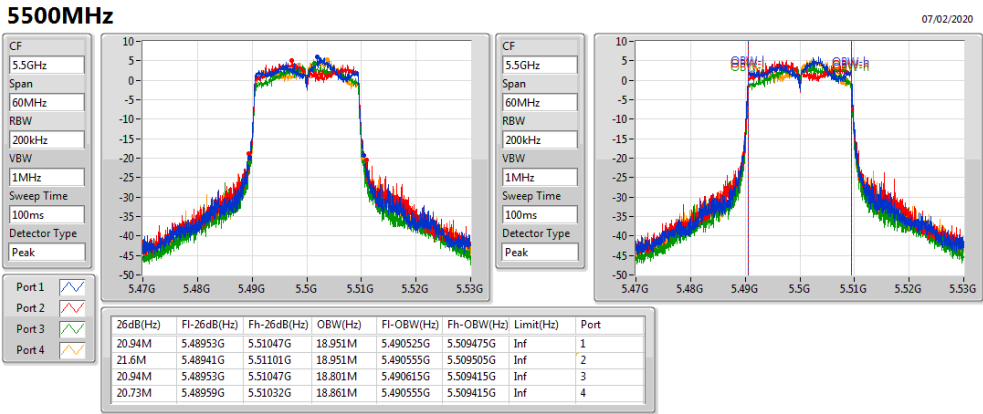
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EBW



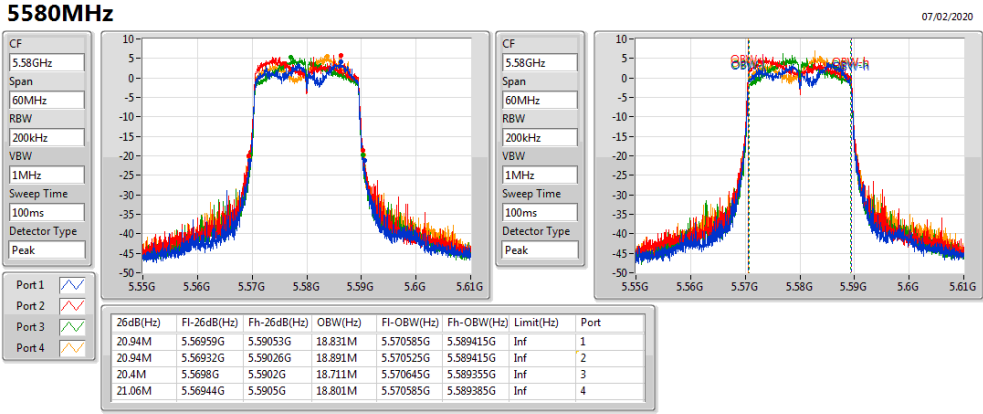
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EBW



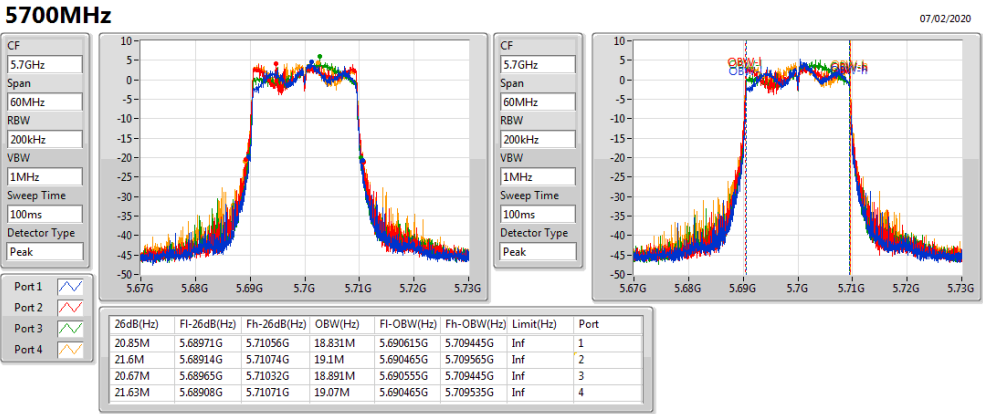
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EBW



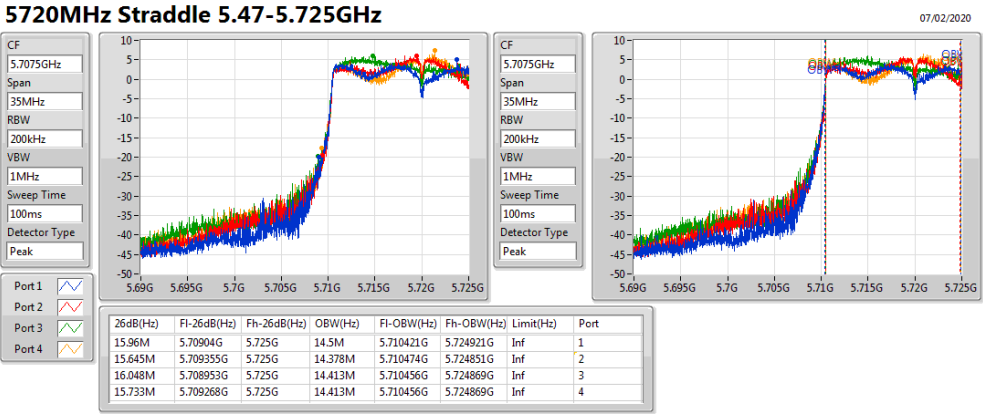
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EBW



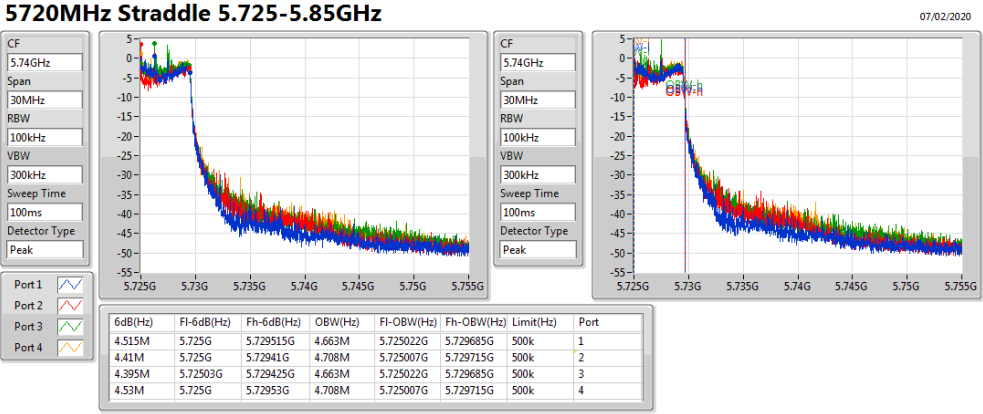
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EBW



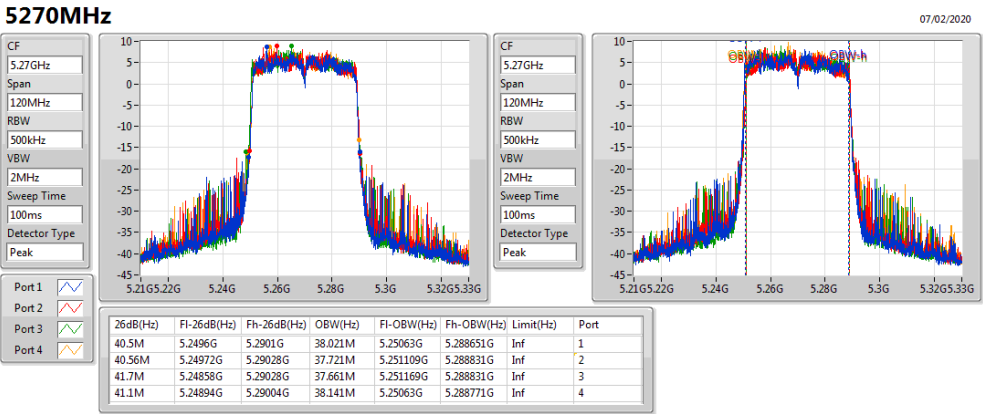
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EBW



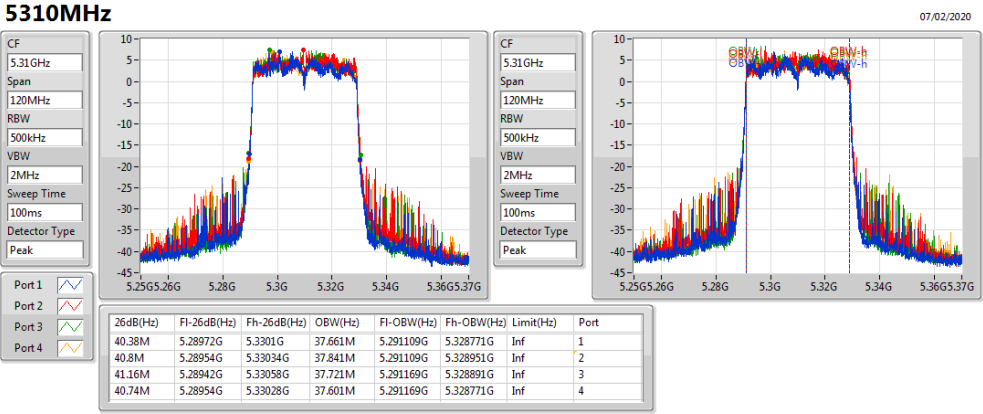
802.11ax HEW40-BF_Nss1,(MCS0)_4TX

EBW



802.11ax HEW40-BF_Nss1,(MCS0)_4TX

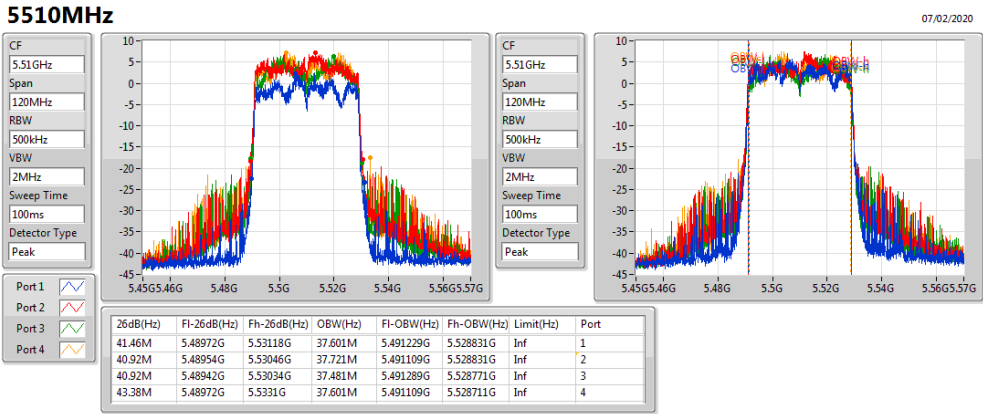
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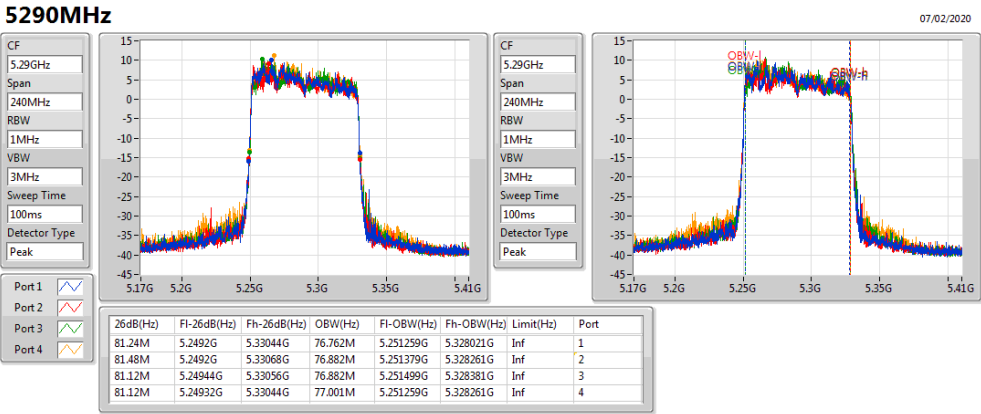
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EBW



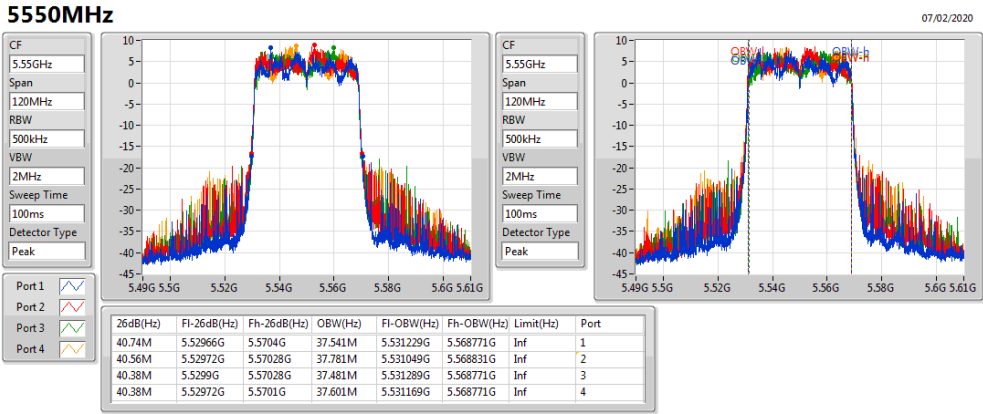
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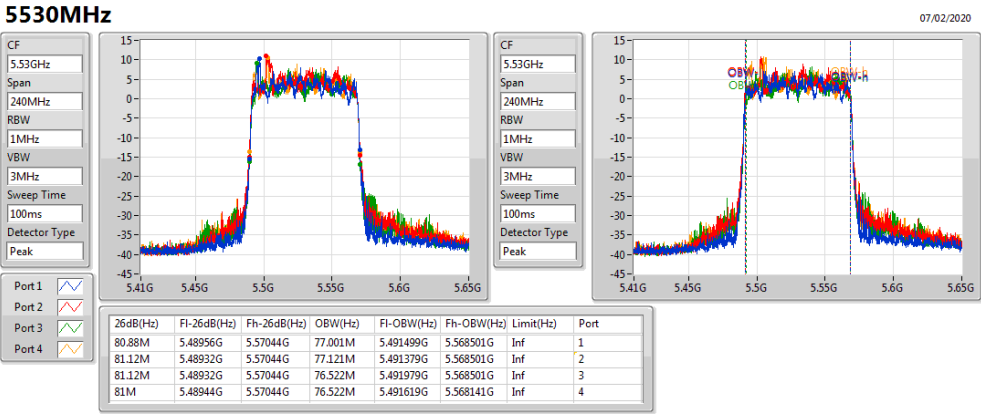
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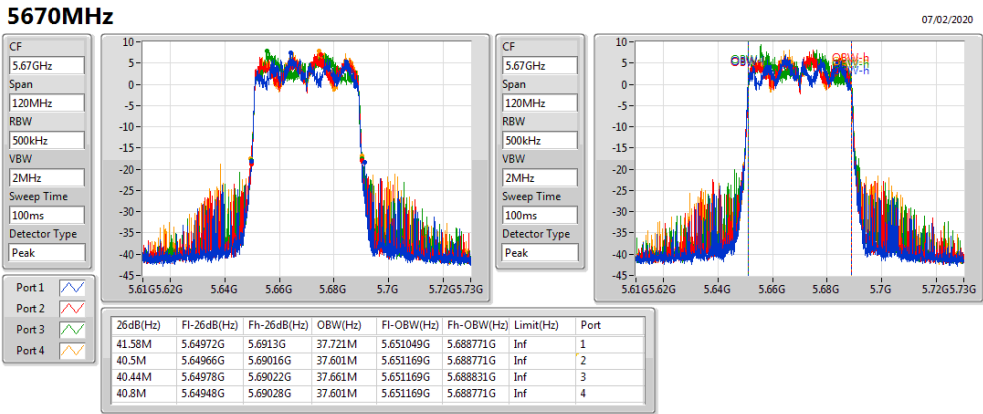
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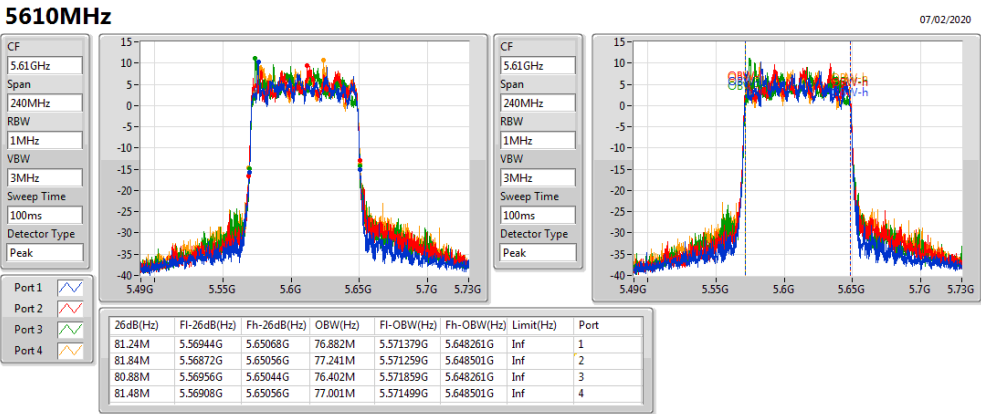
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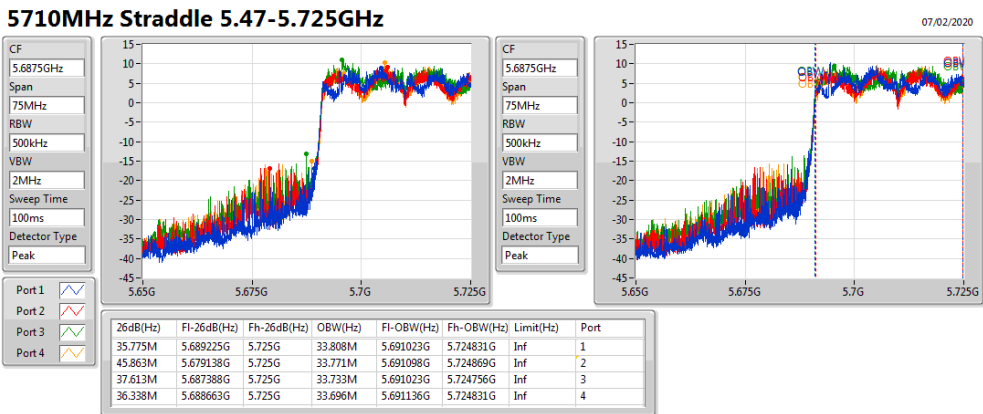
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EBW



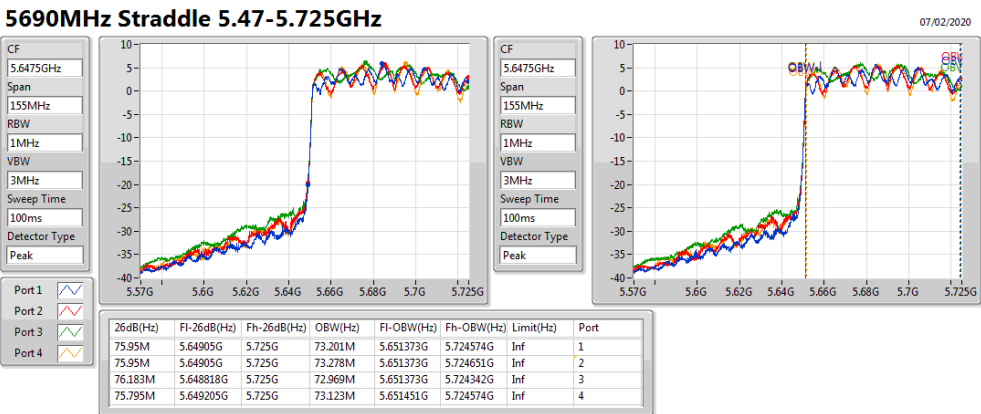
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EBW



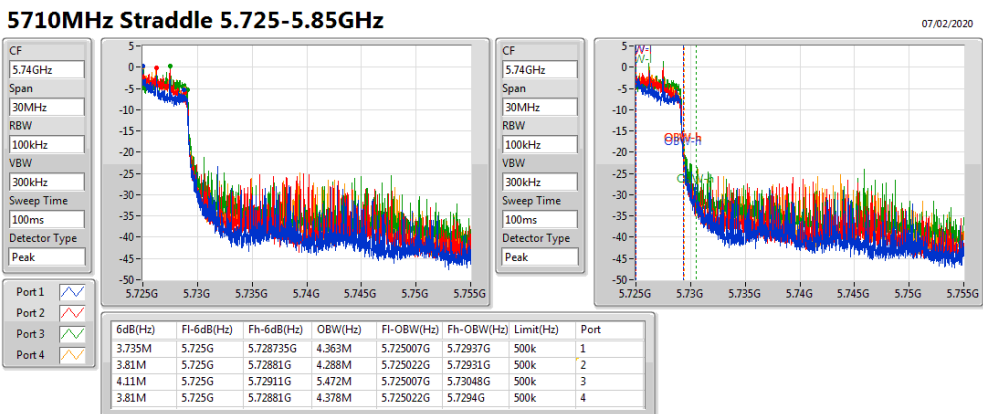
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EBW



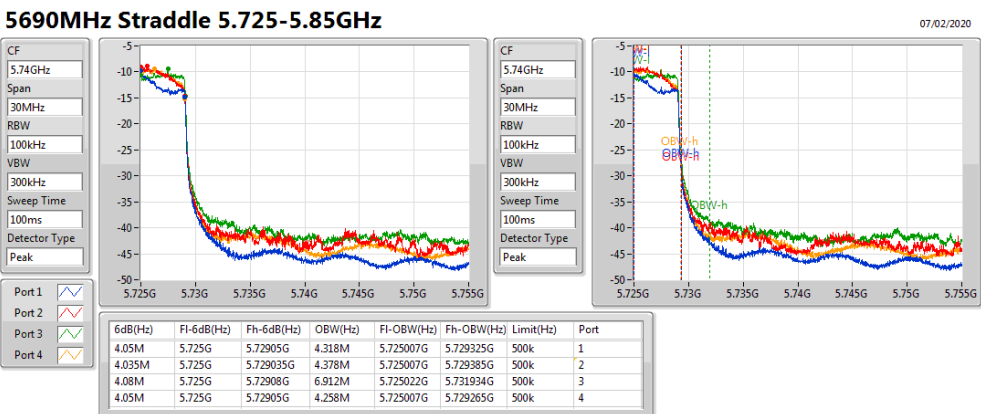
802.11ax HEW40-BF_Nss1,(MCS0)_4TX

EBW



802.11ax HEW80-BF_Nss1,(MCS0)_4TX

EBW





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	37.075M	19.365M	19M4D1D	34.3M	17.991M
802.11ac VHT20_Nss1,(MCS0)_1TX	35.875M	19.615M	19M6D1D	33.85M	18.166M
802.11ac VHT40_Nss1,(MCS0)_1TX	81.55M	38.431M	38M4D1D	59.7M	36.782M
802.11ac VHT80_Nss1,(MCS0)_1TX	97.5M	76.062M	76M1D1D	97.5M	76.062M
5.47-5.725GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	36.75M	19.44M	19M4D1D	24.345M	14.618M
802.11ac VHT20_Nss1,(MCS0)_1TX	39.2M	19.515M	19M5D1D	22.905M	14.903M
802.11ac VHT40_Nss1,(MCS0)_1TX	80.8M	38.331M	38M3D1D	53.95M	34.773M
802.11ac VHT80_Nss1,(MCS0)_1TX	132.4M	77.061M	77M1D1D	94.2M	73.388M
5.725-5.85GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	3.12M	8.516M	8M52D1D	3.12M	8.516M
802.11ac VHT20_Nss1,(MCS0)_1TX	3.74M	8.336M	8M34D1D	3.74M	8.336M
802.11ac VHT40_Nss1,(MCS0)_1TX	3.14M	19.55M	19M5D1D	3.14M	19.55M
802.11ac VHT80_Nss1,(MCS0)_1TX	3.24M	31.824M	31M8D1D	3.24M	31.824M

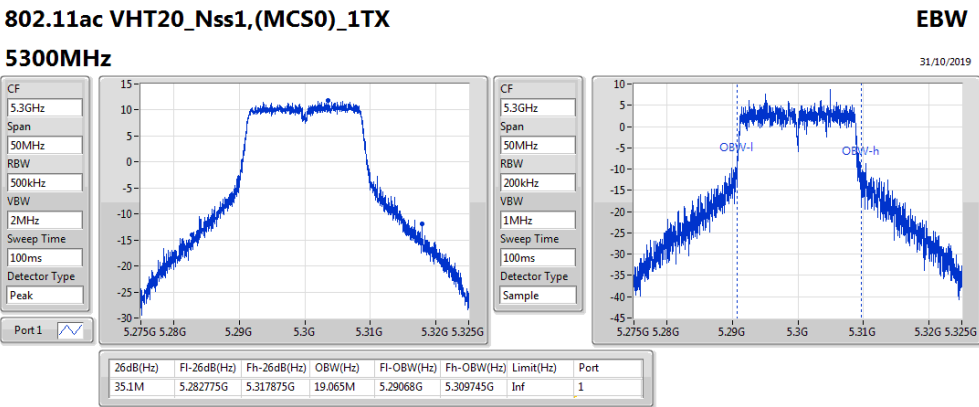
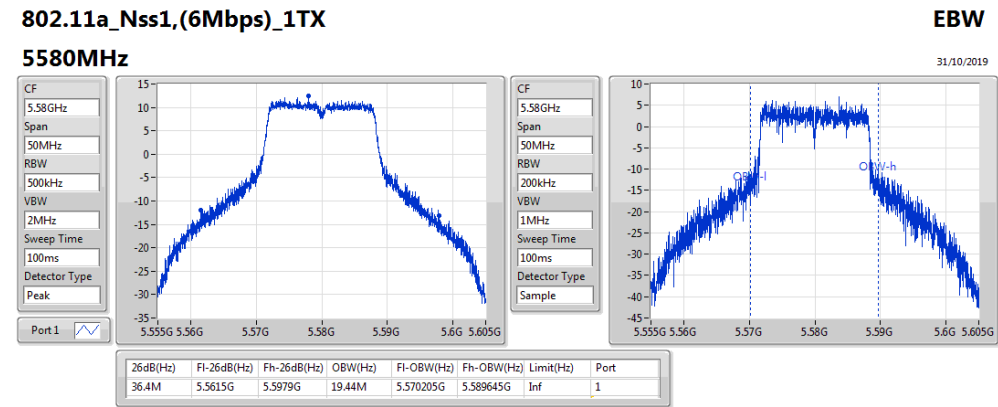
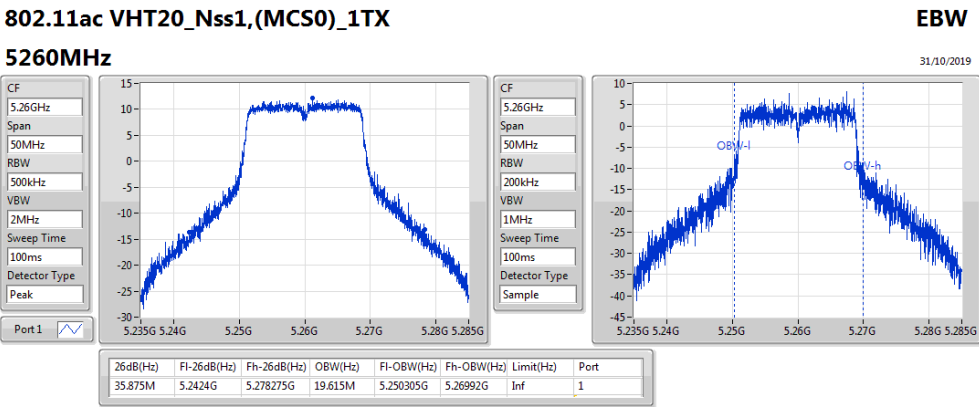
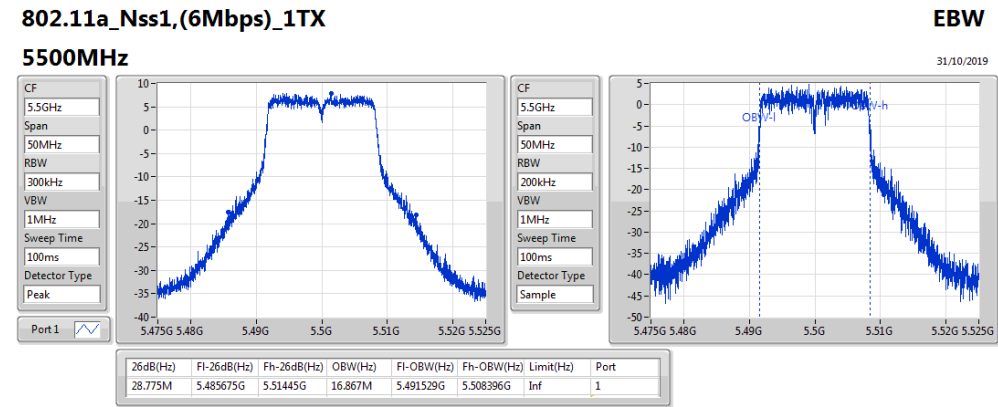
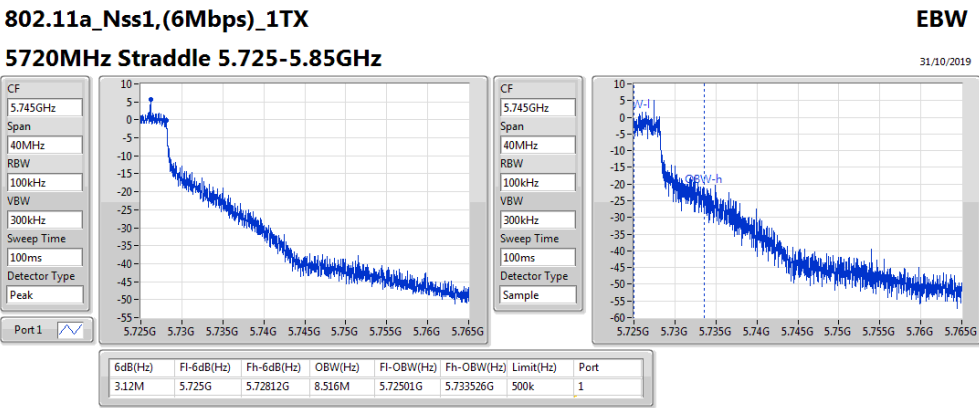
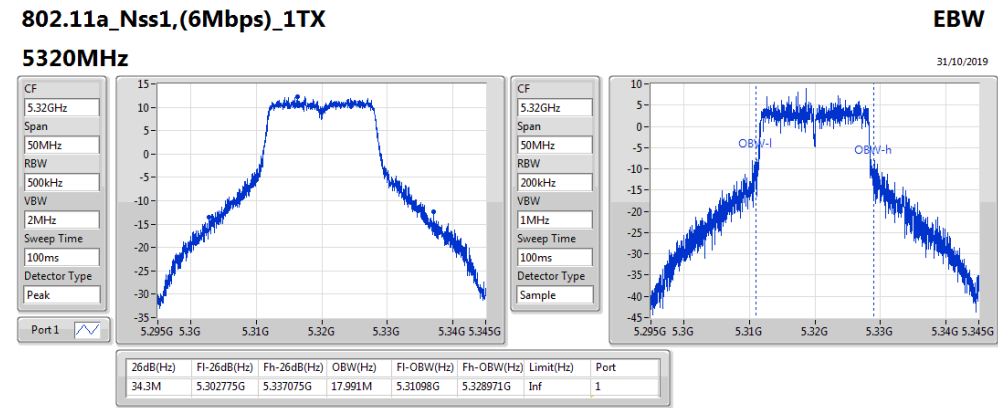
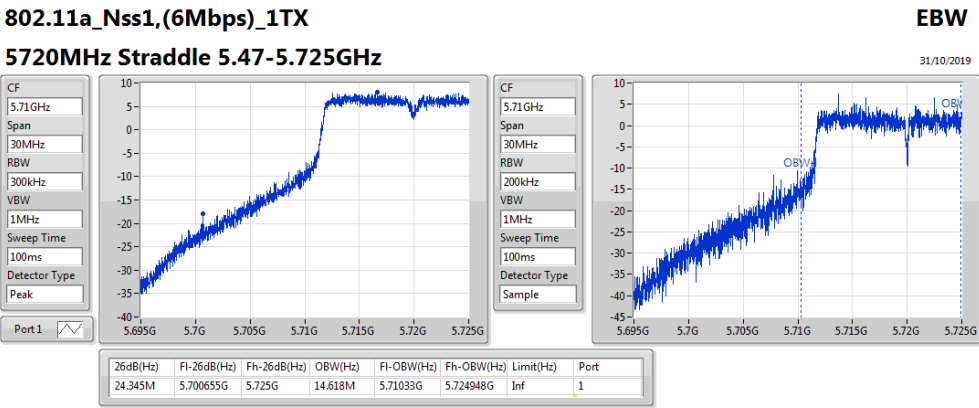
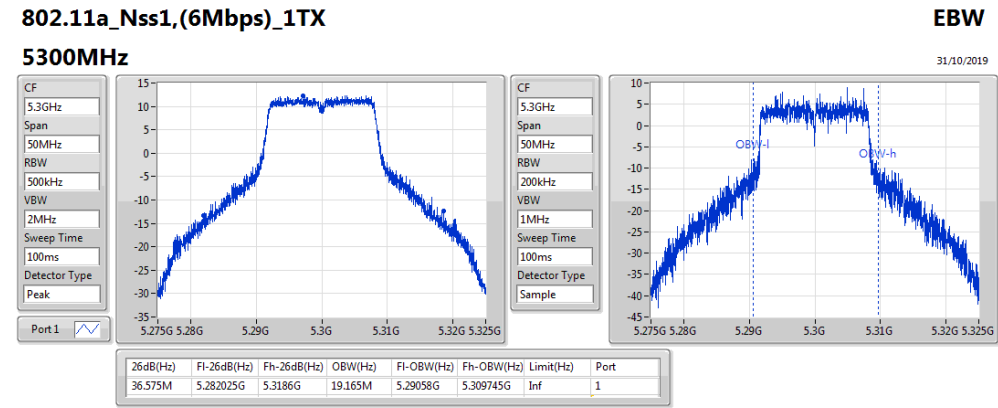
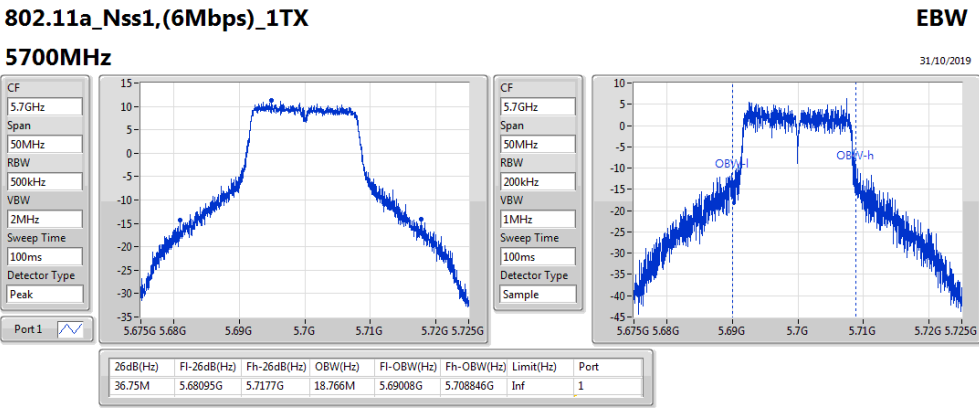
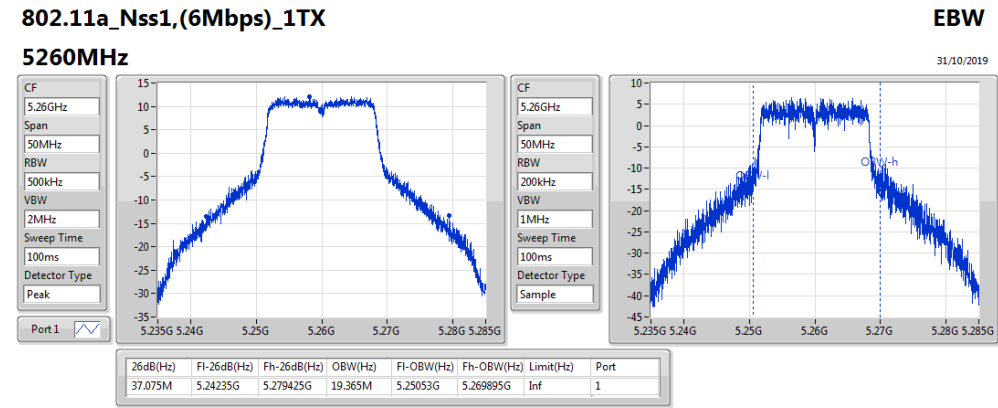
Max-N dB = Maximum 6dB down bandwidth for UNII-3 band / Maximum 26dB down bandwidth for other band; Max-OBW = Maximum 99% occupied bandwidth;
Min-N dB = Minimum 6dB down bandwidth for UNII-3 band / Maximum 26dB down bandwidth for other band; Min-OBW = Minimum 99% occupied bandwidth;

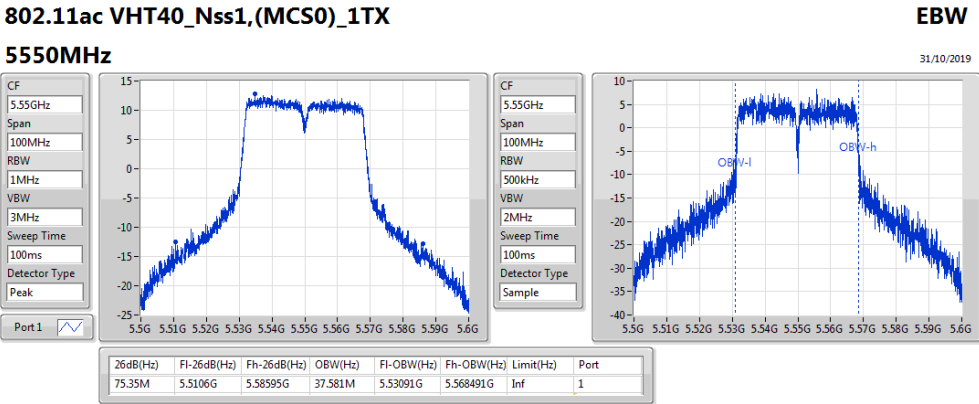
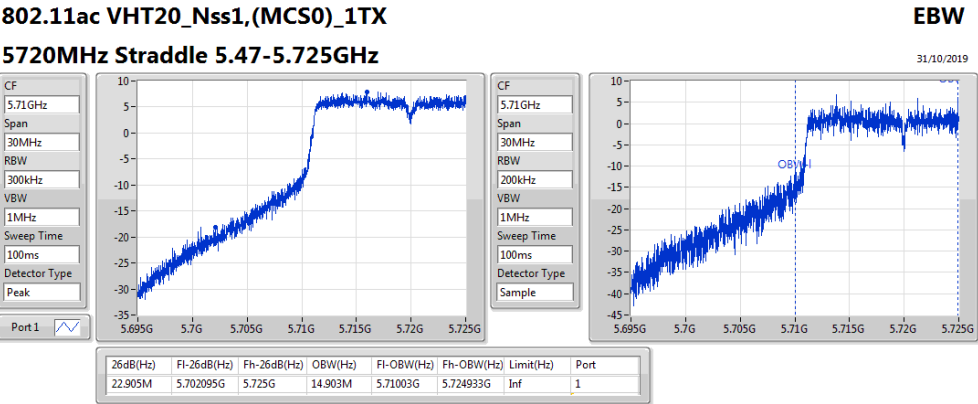
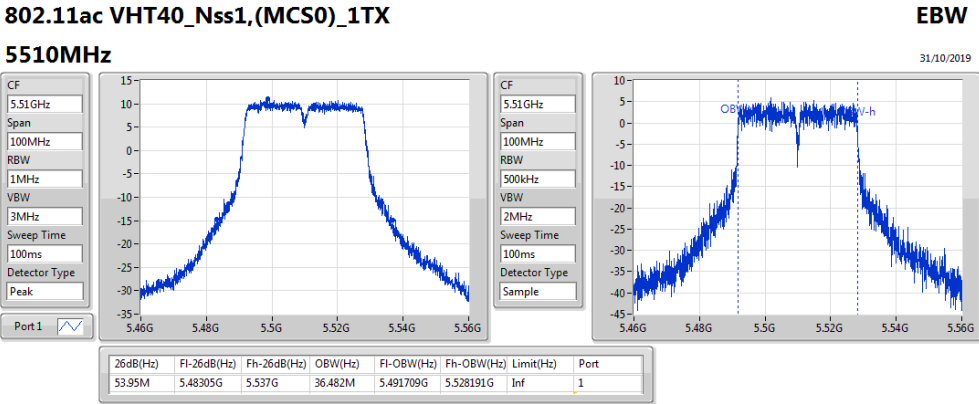
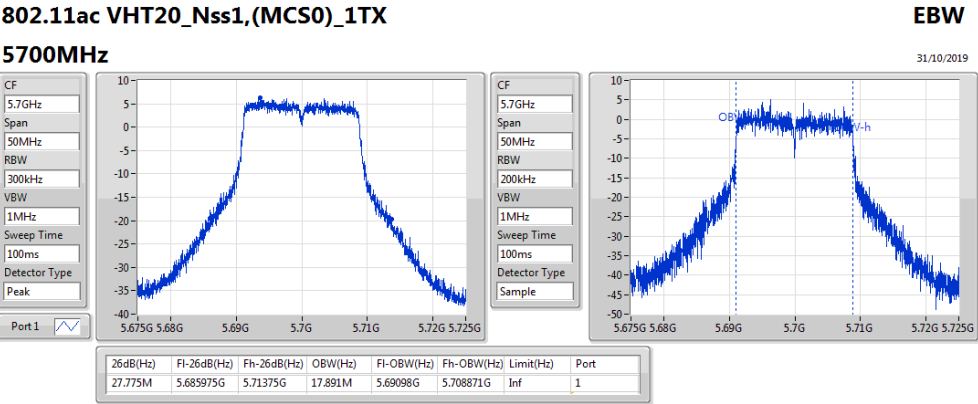
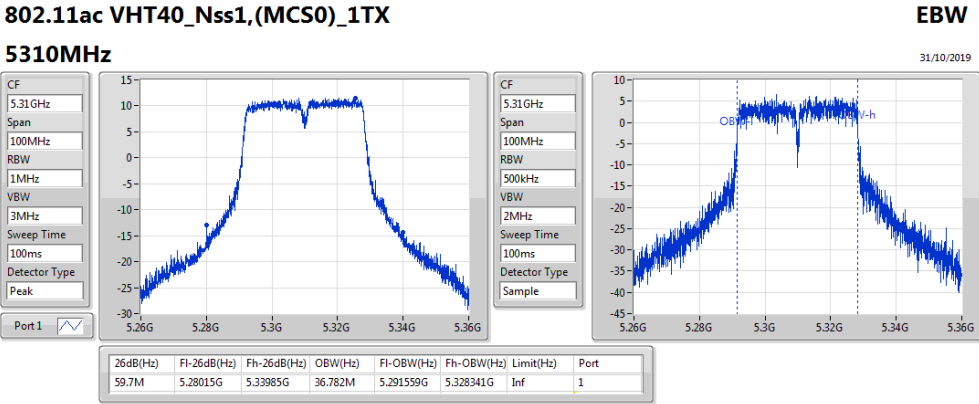
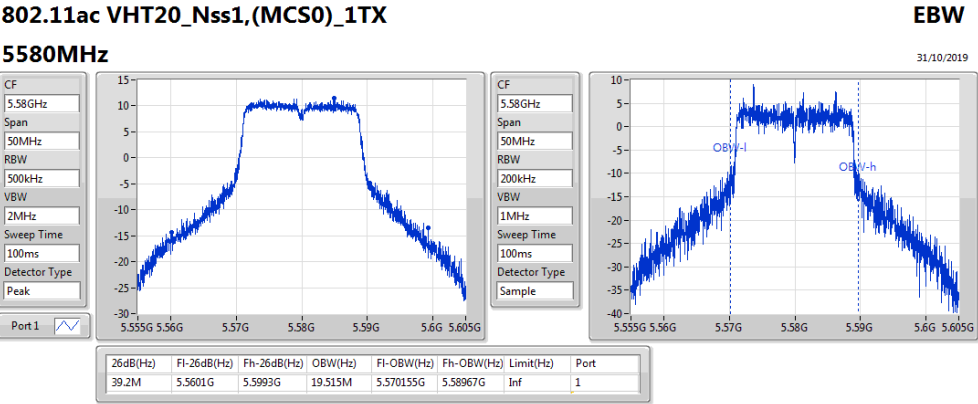
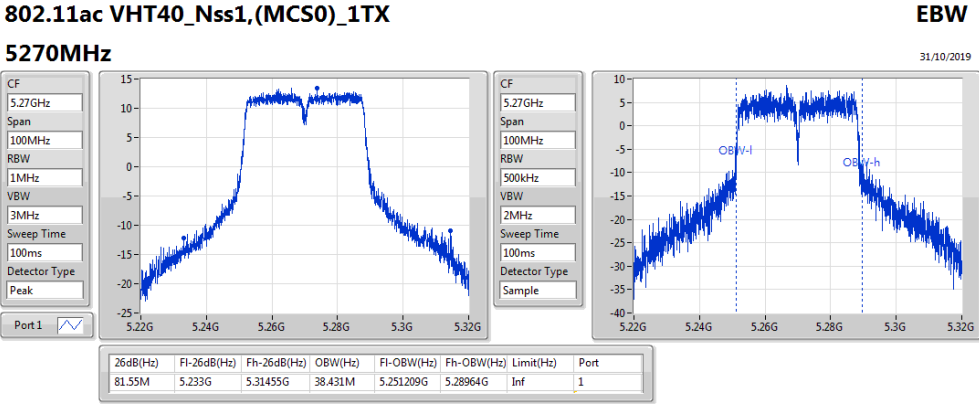
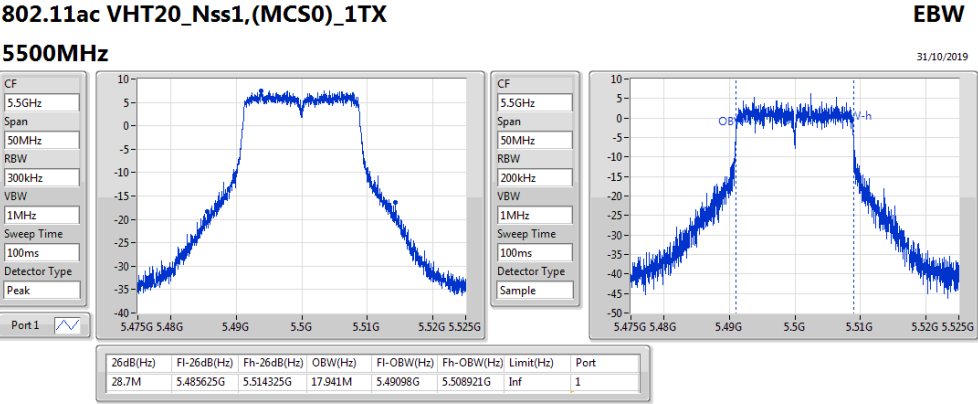
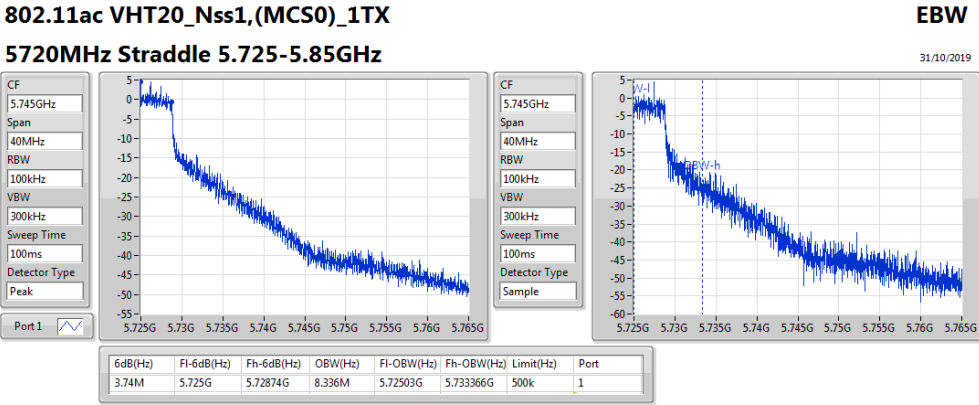
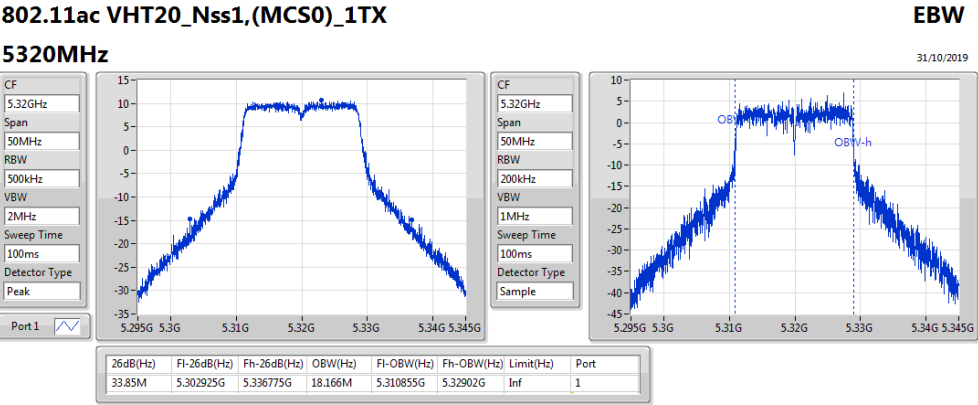


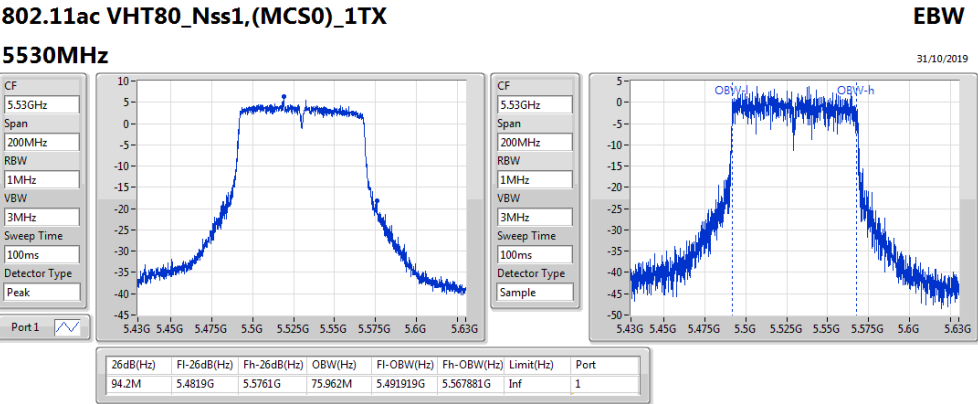
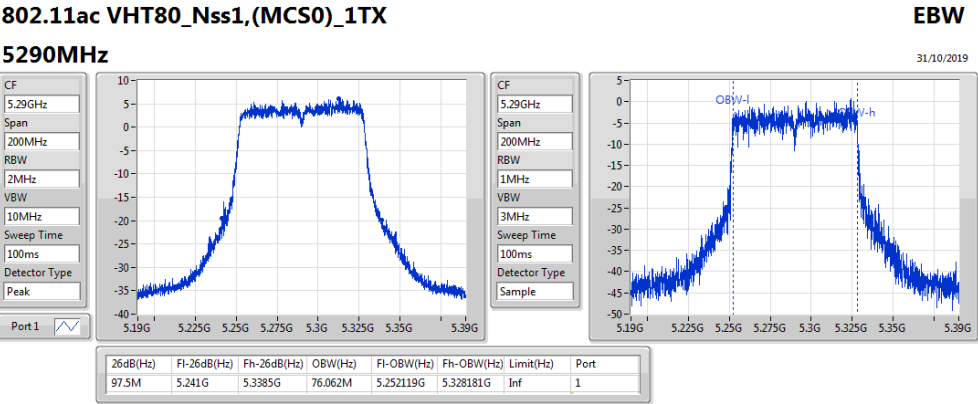
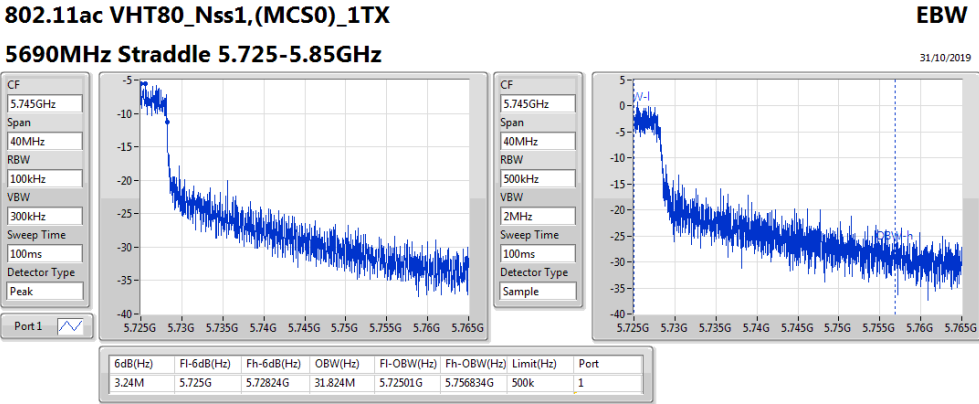
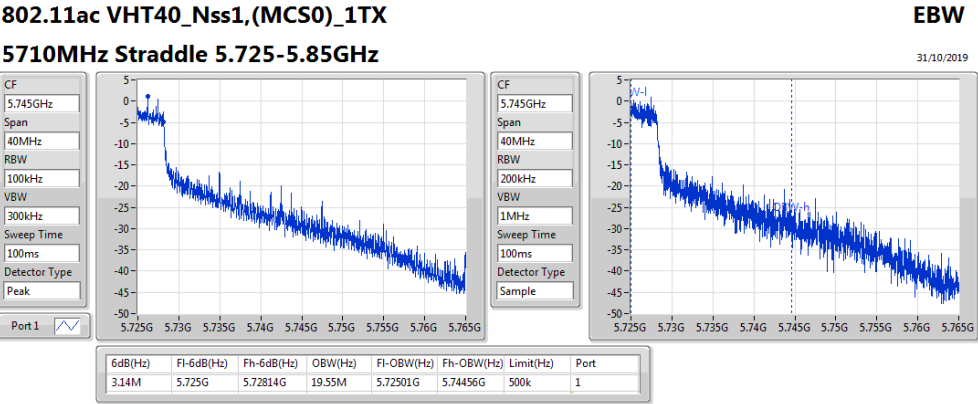
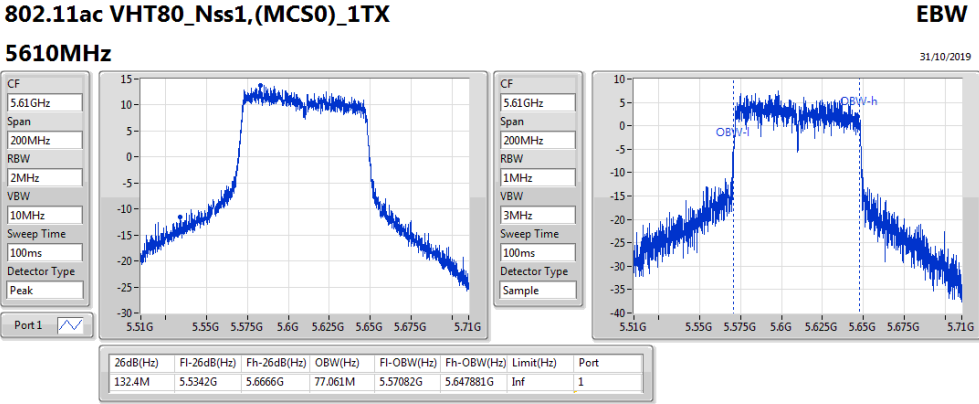
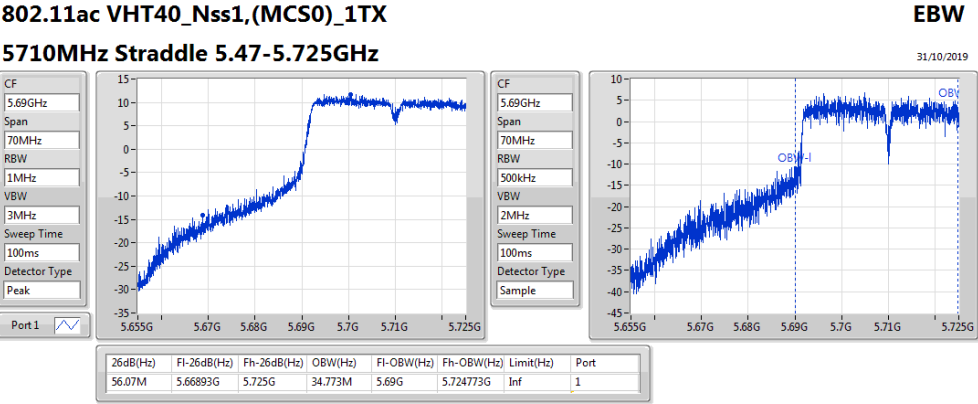
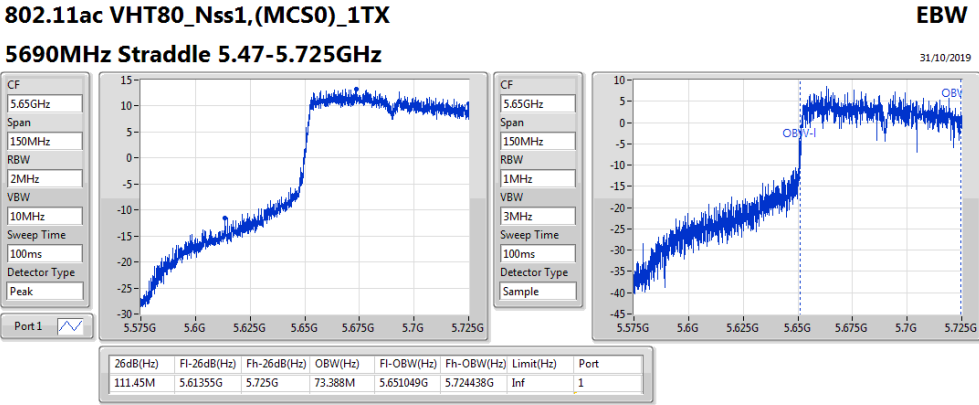
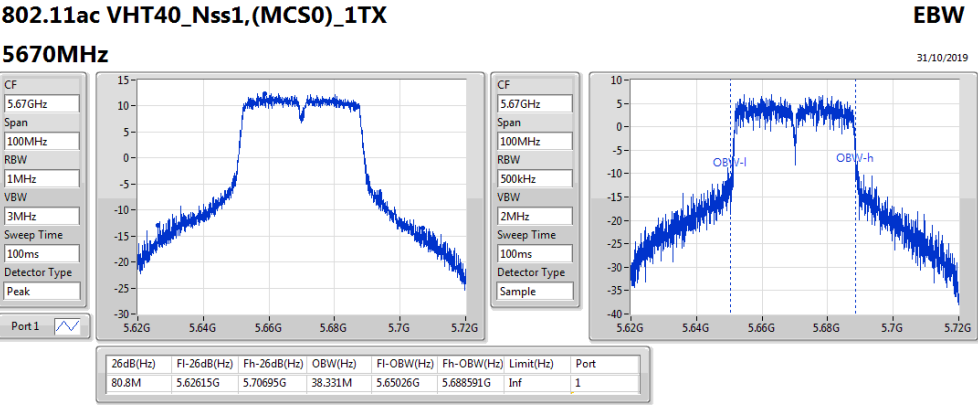
Result

Mode	Result	Limit	Port 1-N dB	Port 1-OBW
		(Hz)	(Hz)	(Hz)
802.11a_Nss1,(6Mbps)_1TX	-	-	-	-
5260MHz	Pass	Inf	37.075M	19.365M
5300MHz	Pass	Inf	36.575M	19.165M
5320MHz	Pass	Inf	34.3M	17.991M
5500MHz	Pass	Inf	28.775M	16.867M
5580MHz	Pass	Inf	36.4M	19.44M
5700MHz	Pass	Inf	36.75M	18.766M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	24.345M	14.618M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	3.12M	8.516M
802.11ac_VHT20_Nss1,(MCS0)_1TX	-	-	-	-
5260MHz	Pass	Inf	35.875M	19.615M
5300MHz	Pass	Inf	35.1M	19.065M
5320MHz	Pass	Inf	33.85M	18.166M
5500MHz	Pass	Inf	28.7M	17.941M
5580MHz	Pass	Inf	39.2M	19.515M
5700MHz	Pass	Inf	27.775M	17.891M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	22.905M	14.903M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	3.74M	8.336M
802.11ac_VHT40_Nss1,(MCS0)_1TX	-	-	-	-
5270MHz	Pass	Inf	81.55M	38.431M
5310MHz	Pass	Inf	59.7M	36.782M
5510MHz	Pass	Inf	53.95M	36.482M
5550MHz	Pass	Inf	75.35M	37.581M
5670MHz	Pass	Inf	80.8M	38.331M
5710MHz Straddle 5.47-5.725GHz	Pass	Inf	56.07M	34.773M
5710MHz Straddle 5.725-5.85GHz	Pass	500k	3.14M	19.55M
802.11ac_VHT80_Nss1,(MCS0)_1TX	-	-	-	-
5290MHz	Pass	Inf	97.5M	76.062M
5530MHz	Pass	Inf	94.2M	75.962M
5690MHz Straddle 5.47-5.725GHz	Pass	Inf	111.45M	73.388M
5610MHz	Pass	Inf	132.4M	77.061M
5690MHz Straddle 5.725-5.85GHz	Pass	500k	3.24M	31.824M

Port X-N dB = Port X 6dB down bandwidth for UNII-3 band / 26dB down bandwidth for other band; Port X-OBW = Port X 99% occupied bandwidth;









Summary

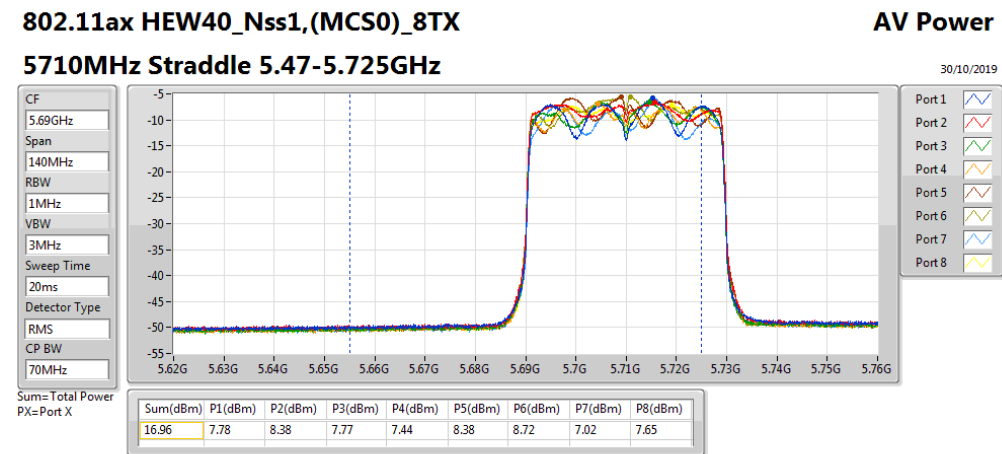
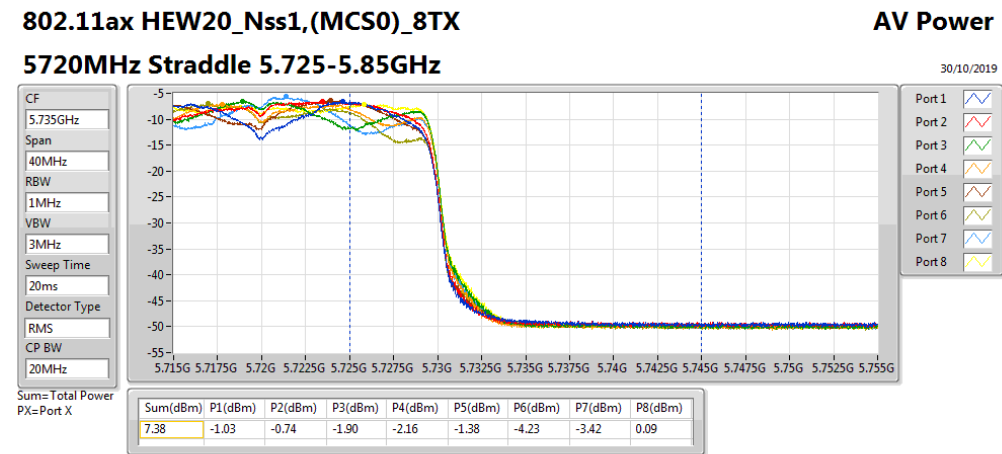
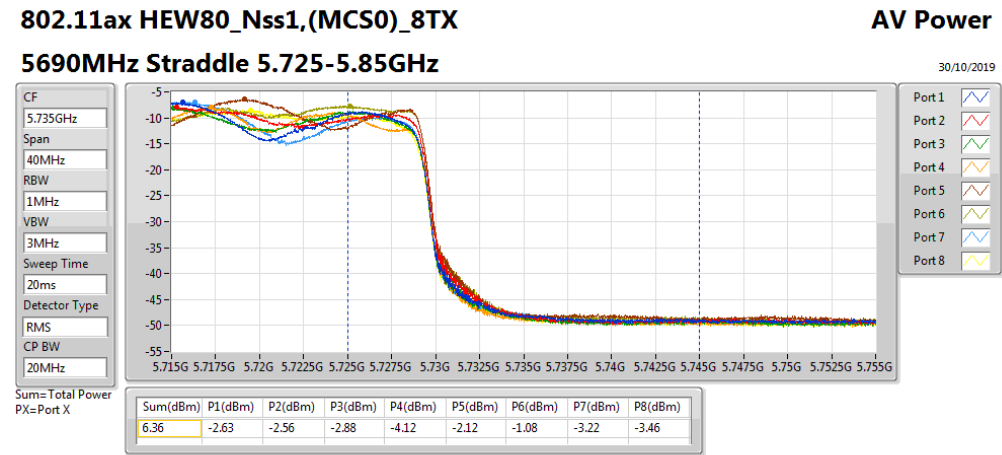
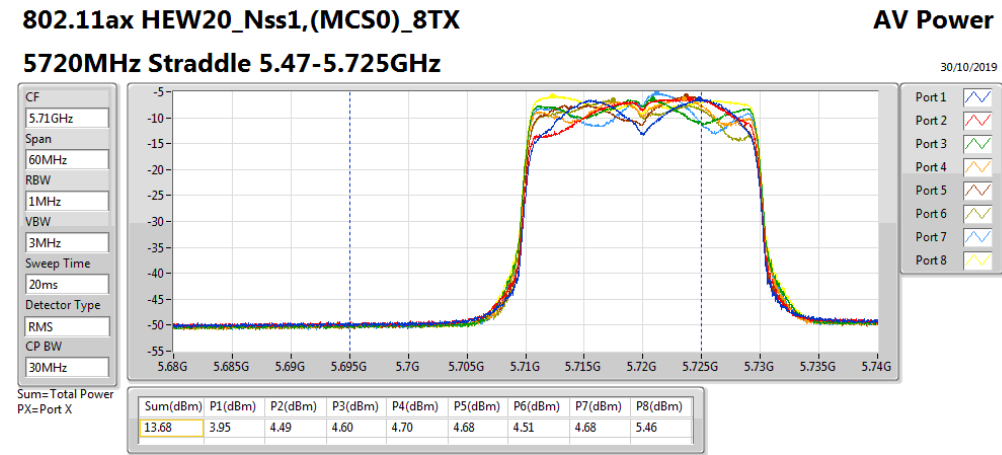
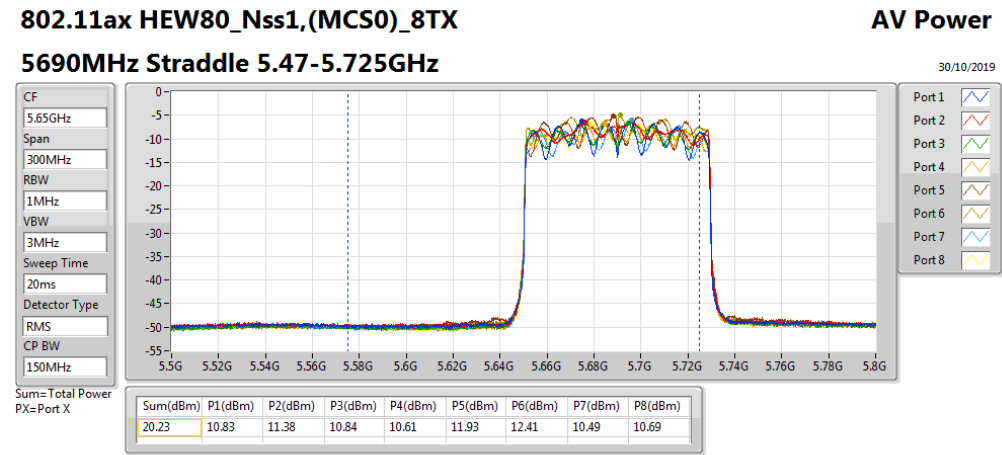
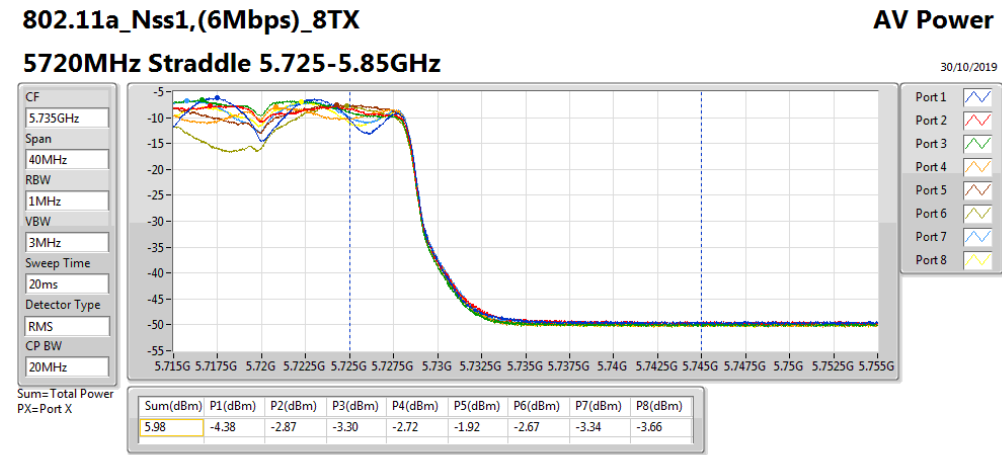
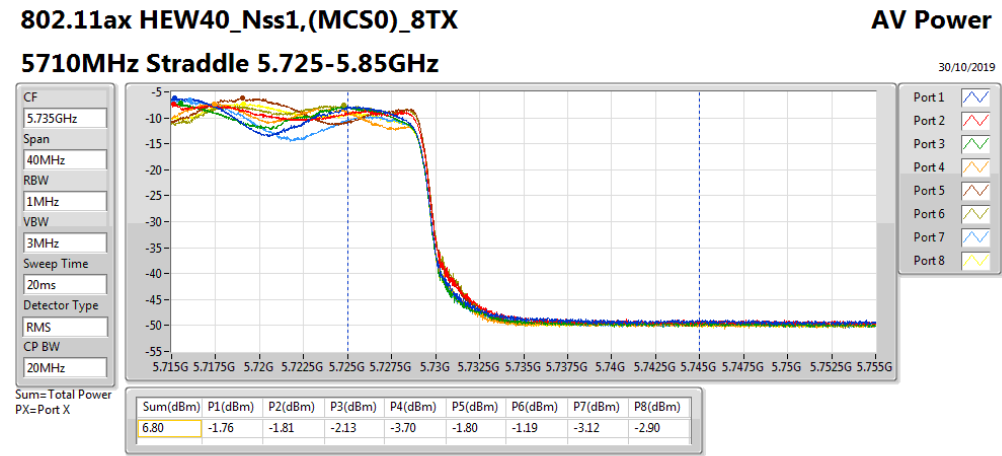
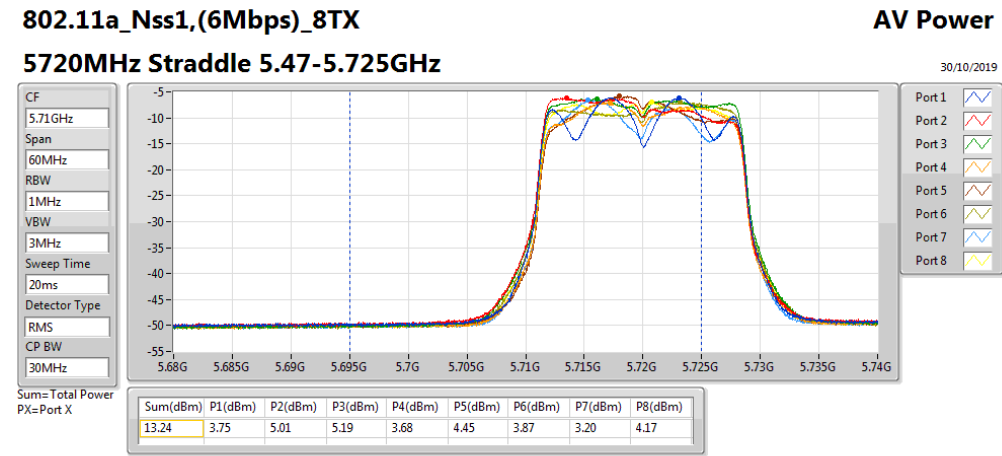
Mode	Total Power (dBm)	Total Power (W)
5.25-5.35GHz	-	-
802.11a_Nss1,(6Mbps)_8TX	14.00	0.02512
802.11ax HEW20_Nss1,(MCS0)_8TX	14.68	0.02938
802.11ax HEW40_Nss1,(MCS0)_8TX	17.48	0.05598
802.11ax HEW80_Nss1,(MCS0)_8TX	20.21	0.10495
5.47-5.725GHz	-	-
802.11a_Nss1,(6Mbps)_8TX	14.34	0.02716
802.11ax HEW20_Nss1,(MCS0)_8TX	15.21	0.03319
802.11ax HEW40_Nss1,(MCS0)_8TX	17.49	0.05610
802.11ax HEW80_Nss1,(MCS0)_8TX	20.65	0.11614
5.725-5.85GHz	-	-
802.11a_Nss1,(6Mbps)_8TX	5.98	0.00396
802.11ax HEW20_Nss1,(MCS0)_8TX	7.38	0.00547
802.11ax HEW40_Nss1,(MCS0)_8TX	6.80	0.00479
802.11ax HEW80_Nss1,(MCS0)_8TX	6.36	0.00433



Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Port 3 (dBm)	Port 4 (dBm)	Port 5 (dBm)	Port 6 (dBm)	Port 7 (dBm)	Port 8 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11a_Nss1,(6Mbps)_8TX	-	-	-	-	-	-	-	-	-	-	-	-
5260MHz	Pass	9.50	4.83	4.12	5.05	4.20	4.04	4.68	3.83	4.86	13.50	20.24
5300MHz	Pass	9.50	4.46	3.99	4.42	5.10	4.12	4.74	4.82	4.75	13.59	20.24
5320MHz	Pass	9.50	4.88	5.03	5.21	4.44	4.81	5.46	5.16	4.65	14.00	20.17
5500MHz	Pass	9.16	5.58	3.87	4.05	4.03	5.33	5.55	5.05	5.13	13.91	20.47
5580MHz	Pass	9.16	5.64	4.89	4.11	6.06	5.87	5.14	6.01	4.28	14.34	20.58
5700MHz	Pass	9.16	4.79	4.30	4.03	4.70	3.78	5.00	3.79	5.55	13.56	20.52
5720MHz Straddle 5.47-5.725GHz	Pass	9.16	3.75	5.01	5.19	3.68	4.45	3.87	3.20	4.17	13.24	19.41
5720MHz Straddle 5.725-5.85GHz	Pass	9.70	-4.38	-2.87	-3.30	-2.72	-1.92	-2.67	-3.34	-3.66	5.98	26.30
802.11ax HEW20_Nss1,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-
5260MHz	Pass	9.50	6.11	5.50	5.41	5.55	5.68	5.61	5.49	5.77	14.68	20.48
5300MHz	Pass	9.50	5.23	5.38	5.57	5.24	4.69	5.38	5.43	5.41	14.33	20.48
5320MHz	Pass	9.50	5.23	5.72	5.38	5.10	5.15	5.34	5.15	4.84	14.28	20.48
5500MHz	Pass	9.16	6.20	6.18	5.96	6.55	6.66	6.36	5.97	5.43	15.21	20.82
5580MHz	Pass	9.16	5.44	5.39	5.19	5.21	5.51	5.21	5.30	5.09	14.33	20.82
5700MHz	Pass	9.16	5.19	6.14	6.21	5.61	6.07	6.66	4.82	5.03	14.79	20.82
5720MHz Straddle 5.47-5.725GHz	Pass	9.16	3.95	4.49	4.60	4.70	4.68	4.51	4.68	5.46	13.68	19.61
5720MHz Straddle 5.725-5.85GHz	Pass	9.70	-1.03	-0.74	-1.90	-2.16	-1.38	-4.23	-3.42	0.09	7.38	26.30
802.11ax HEW40_Nss1,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-
5270MHz	Pass	6.50	8.03	8.71	8.57	8.74	8.18	8.46	8.25	8.56	17.48	23.48
5310MHz	Pass	6.50	8.28	8.19	7.98	8.16	7.96	8.32	7.88	7.84	17.11	23.48
5510MHz	Pass	6.16	8.75	8.24	8.86	7.97	8.60	8.79	8.05	7.63	17.41	23.82
5550MHz	Pass	6.16	8.44	7.85	9.08	7.55	8.68	9.44	7.63	7.77	17.39	23.82
5670MHz	Pass	6.16	8.44	8.67	8.25	7.75	8.71	9.64	7.87	8.03	17.49	23.82
5710MHz Straddle 5.47-5.725GHz	Pass	6.16	7.78	8.38	7.77	7.44	8.38	8.72	7.02	7.65	16.96	23.82
5710MHz Straddle 5.725-5.85GHz	Pass	6.70	-1.76	-1.81	-2.13	-3.70	-1.80	-1.19	-3.12	-2.90	6.80	29.30
802.11ax HEW80_Nss1,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-
5290MHz	Pass	6.50	11.28	11.27	11.22	11.13	11.02	11.51	11.05	10.89	20.21	23.48
5530MHz	Pass	6.16	11.68	11.14	11.83	10.85	11.55	12.69	11.03	10.92	20.53	23.82
5690MHz Straddle 5.47-5.725GHz	Pass	6.16	10.83	11.38	10.84	10.61	11.93	12.41	10.49	10.69	20.23	23.82
5610MHz	Pass	6.16	11.82	11.34	11.58	10.97	11.92	12.72	11.03	11.31	20.65	23.82
5690MHz Straddle 5.725-5.85GHz	Pass	6.70	-2.63	-2.56	-2.88	-4.12	-2.12	-1.08	-3.22	-3.46	6.36	29.30

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





Summary

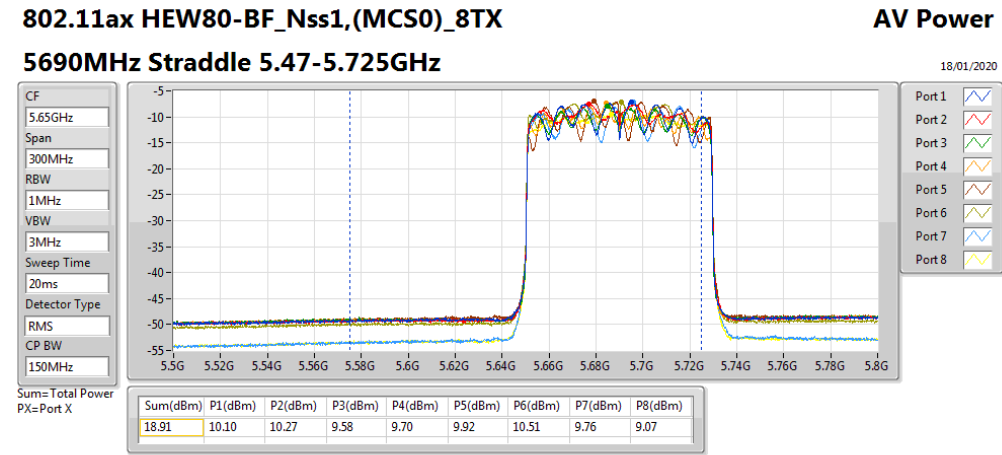
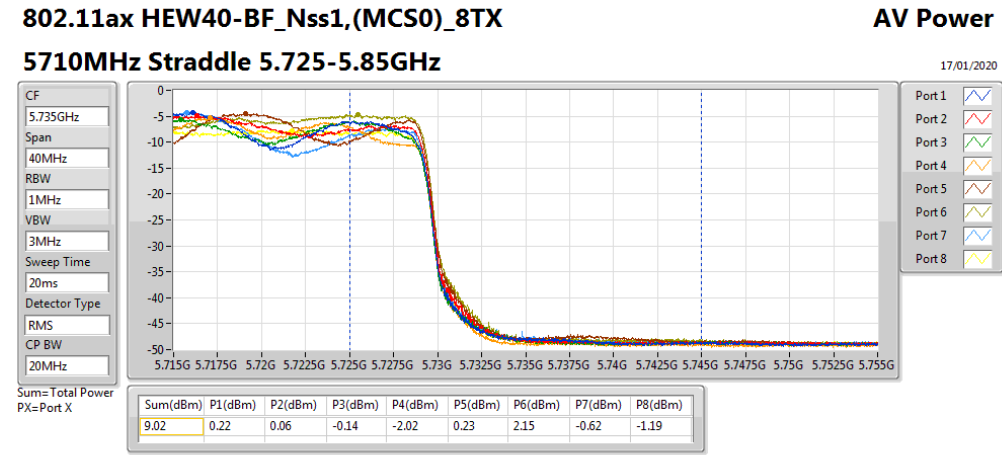
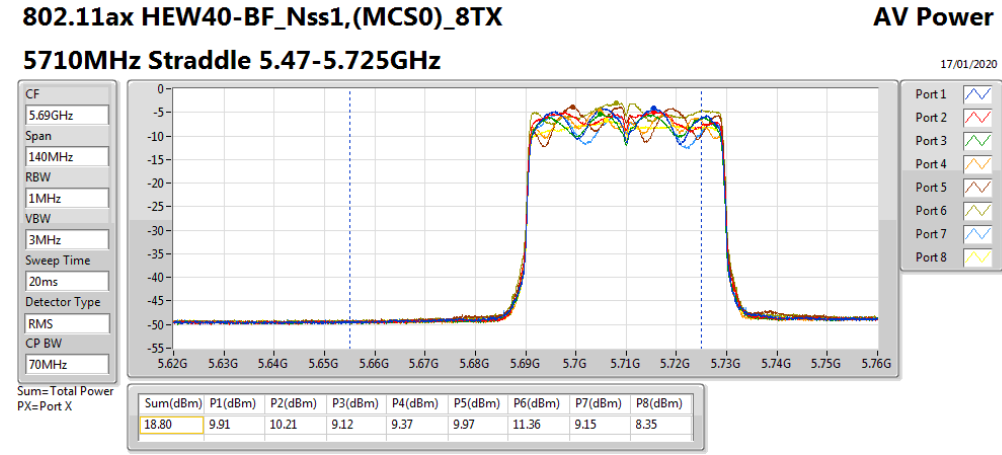
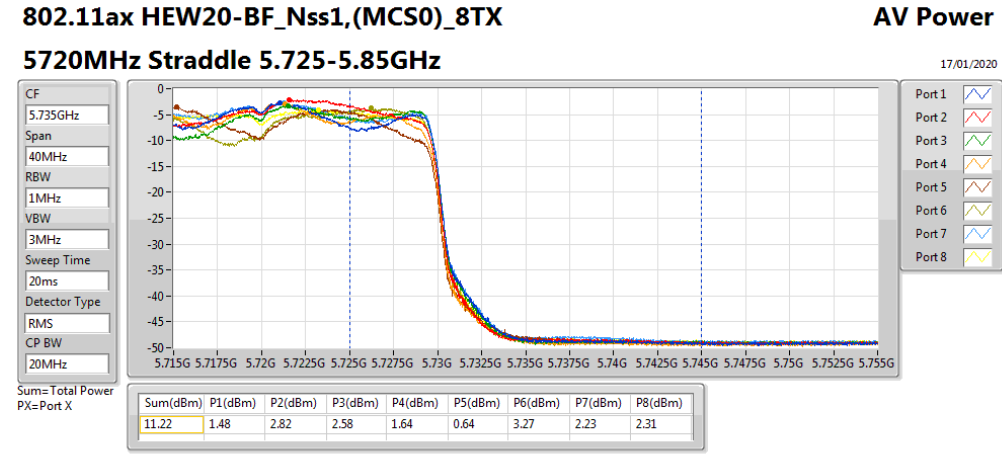
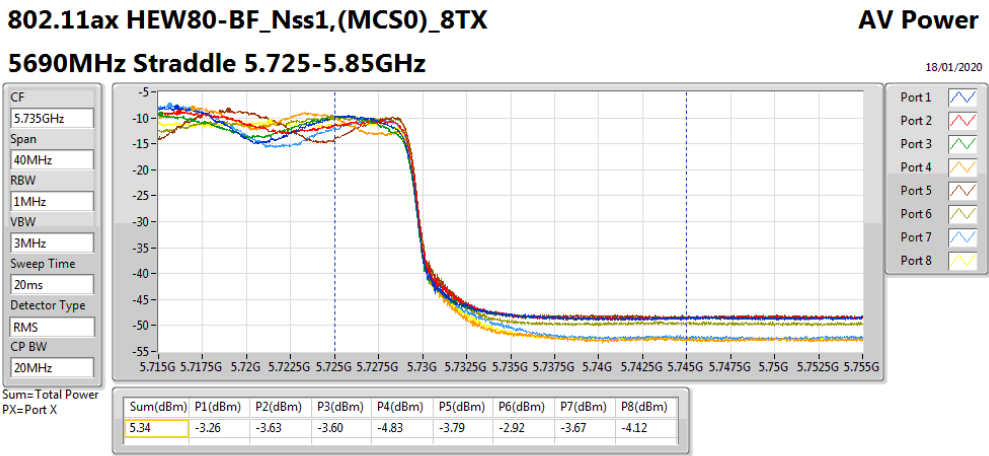
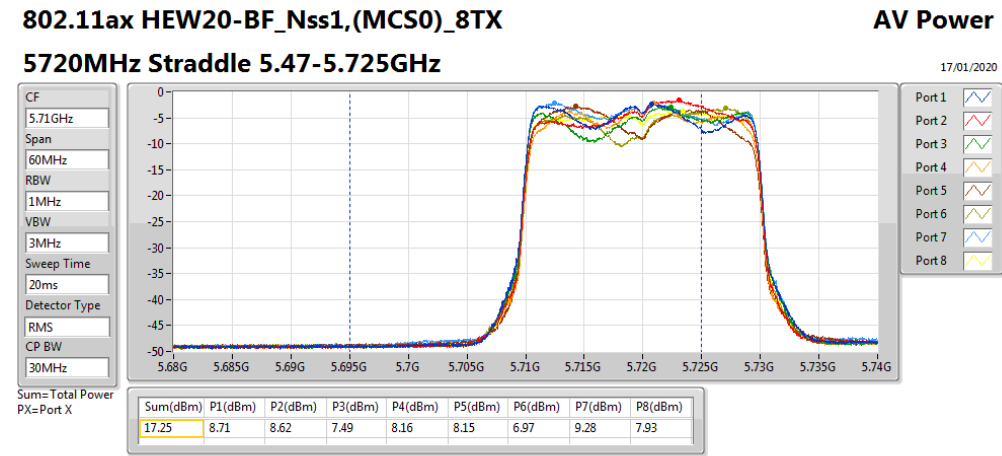
Mode	Total Power (dBm)	Total Power (W)
5.25-5.35GHz	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_8TX	18.22	0.06637
802.11ax HEW40-BF_Nss1,(MCS0)_8TX	18.03	0.06353
802.11ax HEW80-BF_Nss1,(MCS0)_8TX	18.25	0.06683
5.47-5.725GHz	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_8TX	18.70	0.07413
802.11ax HEW40-BF_Nss1,(MCS0)_8TX	18.97	0.07889
802.11ax HEW80-BF_Nss1,(MCS0)_8TX	18.91	0.07780
5.725-5.85GHz	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_8TX	11.22	0.01324
802.11ax HEW40-BF_Nss1,(MCS0)_8TX	9.02	0.00798
802.11ax HEW80-BF_Nss1,(MCS0)_8TX	5.34	0.00342



Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Port 3 (dBm)	Port 4 (dBm)	Port 5 (dBm)	Port 6 (dBm)	Port 7 (dBm)	Port 8 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11ax HEW20-BF_Nss1,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-
5260MHz	Pass	11.47	9.42	9.36	8.76	9.45	9.09	9.53	9.07	8.74	18.22	18.51
5300MHz	Pass	11.47	8.51	9.18	9.07	8.53	8.96	8.63	9.05	8.87	17.89	18.51
5320MHz	Pass	11.47	9.24	8.61	8.98	8.96	9.03	9.24	9.03	8.54	17.99	18.51
5500MHz	Pass	11.00	10.35	10.91	9.66	8.92	9.38	10.51	8.62	8.28	18.70	18.98
5580MHz	Pass	11.00	10.64	9.55	8.93	9.51	9.33	8.47	9.49	9.08	18.45	18.98
5700MHz	Pass	11.00	9.72	9.88	8.74	9.40	8.65	9.72	8.93	9.05	18.32	18.98
5720MHz Straddle 5.47-5.725GHz	Pass	11.00	8.71	8.62	7.49	8.16	8.15	6.97	9.28	7.93	17.25	17.89
5720MHz Straddle 5.725-5.85GHz	Pass	11.41	1.48	2.82	2.58	1.64	0.64	3.27	2.23	2.31	11.22	24.59
802.11ax HEW40-BF_Nss1,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-
5270MHz	Pass	11.47	9.84	8.77	8.97	8.64	9.18	9.00	8.97	8.45	18.03	18.51
5310MHz	Pass	11.47	9.19	8.55	9.25	8.23	8.83	8.95	9.23	8.82	17.92	18.51
5510MHz	Pass	11.00	10.77	10.13	10.34	9.29	9.35	10.20	9.10	8.28	18.78	18.98
5550MHz	Pass	11.00	10.24	9.60	9.97	8.87	9.40	10.83	8.22	8.71	18.59	18.98
5670MHz	Pass	11.00	10.46	10.55	9.87	9.76	9.90	10.87	8.97	8.69	18.97	18.98
5710MHz Straddle 5.47-5.725GHz	Pass	11.00	9.91	10.21	9.12	9.37	9.97	11.36	9.15	8.35	18.80	18.98
5710MHz Straddle 5.725-5.85GHz	Pass	11.41	0.22	0.06	-0.14	-2.02	0.23	2.15	-0.62	-1.19	9.02	24.59
802.11ax HEW80-BF_Nss1,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-
5290MHz	Pass	11.47	9.73	9.78	9.50	9.05	9.58	8.18	8.86	8.84	18.25	18.51
5530MHz	Pass	11.00	10.49	9.16	10.25	9.34	9.79	10.56	9.01	9.08	18.78	18.98
5610MHz	Pass	11.00	9.77	10.08	9.73	9.83	9.73	10.68	9.04	9.16	18.81	18.98
5690MHz Straddle 5.47-5.725GHz	Pass	11.00	10.10	10.27	9.58	9.70	9.92	10.51	9.76	9.07	18.91	18.98
5690MHz Straddle 5.725-5.85GHz	Pass	11.41	-3.26	-3.63	-3.60	-4.83	-3.79	-2.92	-3.67	-4.12	5.34	24.59

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





Summary

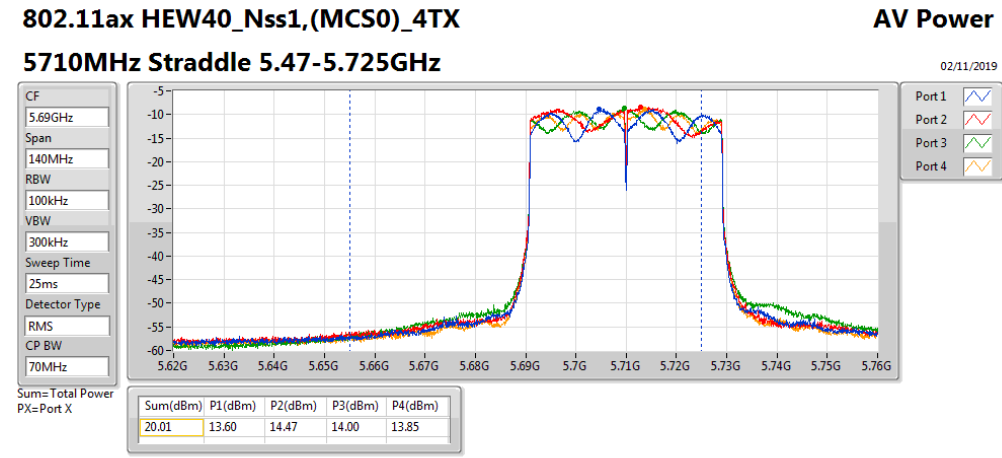
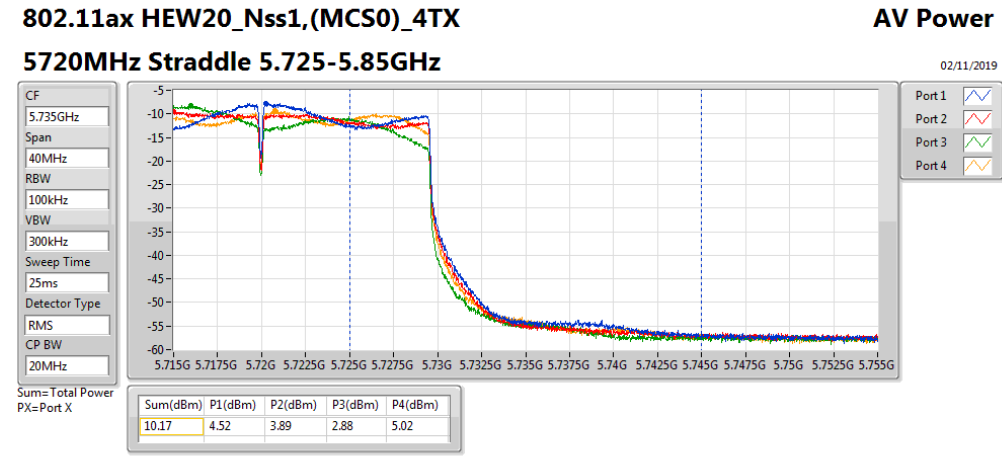
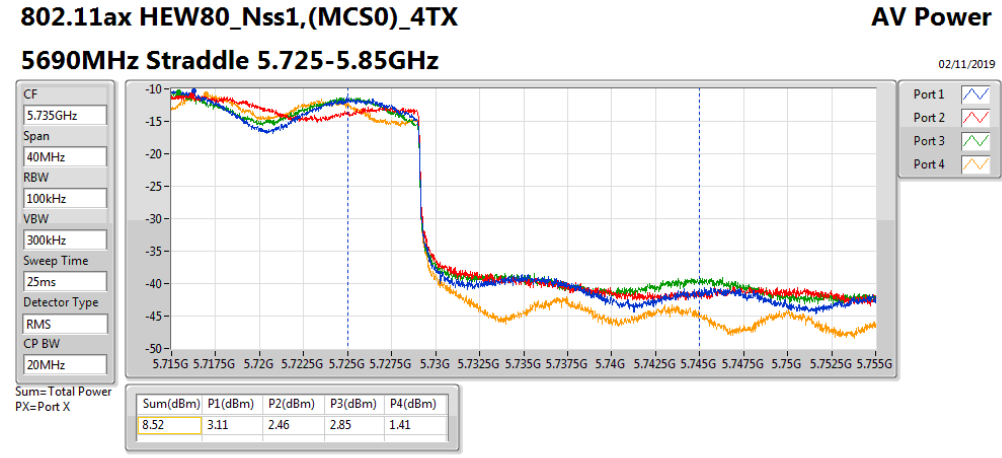
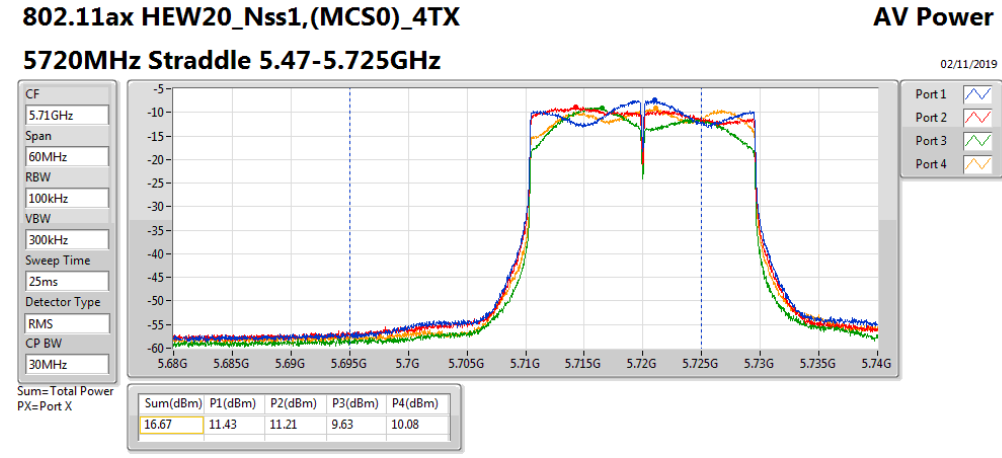
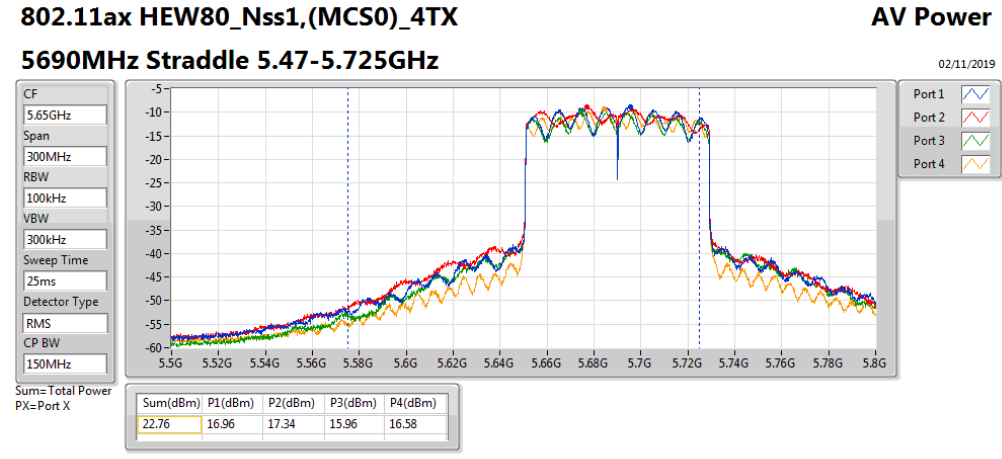
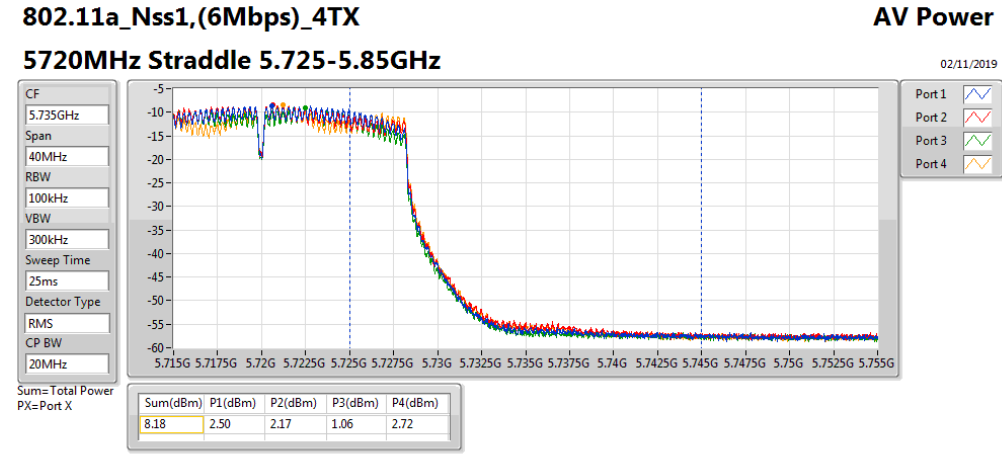
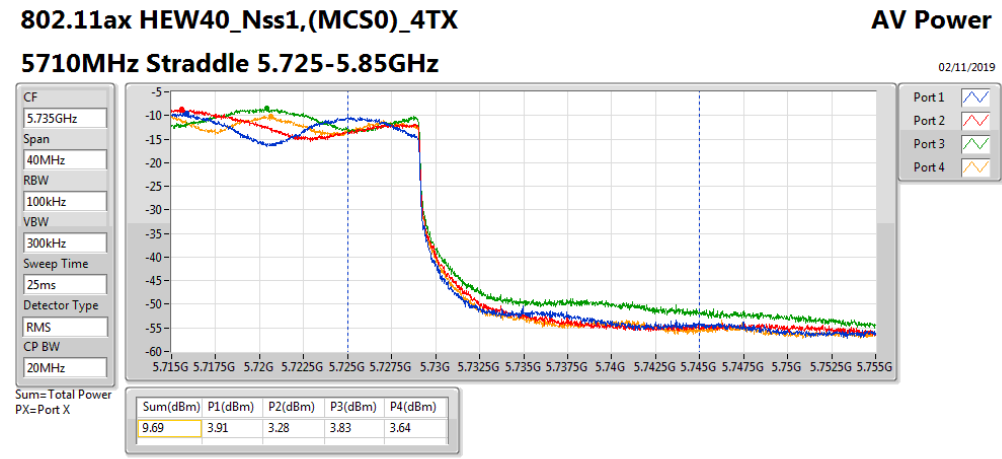
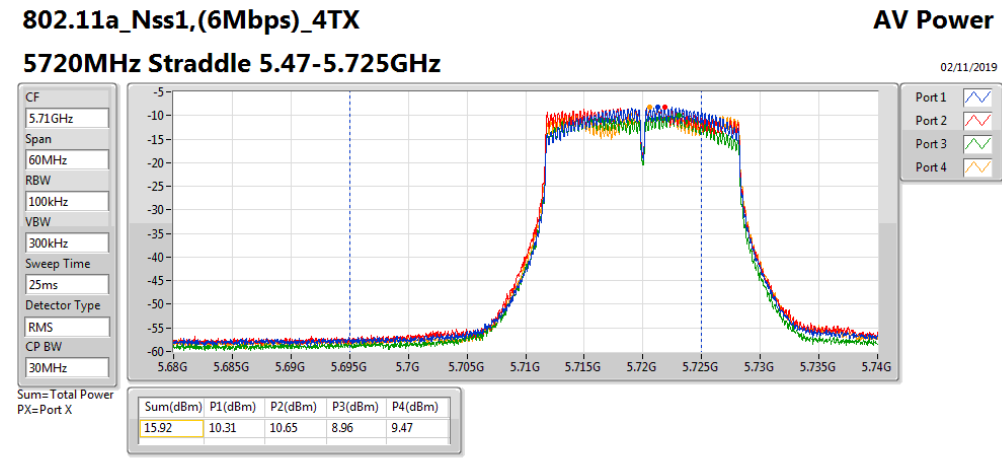
Mode	Total Power (dBm)	Total Power (W)
5.25-5.35GHz	-	-
802.11a_Nss1,(6Mbps)_4TX	17.33	0.05408
802.11ax HEW20_Nss1,(MCS0)_4TX	17.96	0.06252
802.11ax HEW40_Nss1,(MCS0)_4TX	20.56	0.11376
802.11ax HEW80_Nss1,(MCS0)_4TX	20.84	0.12134
5.47-5.725GHz	-	-
802.11a_Nss1,(6Mbps)_4TX	17.47	0.05585
802.11ax HEW20_Nss1,(MCS0)_4TX	18.01	0.06324
802.11ax HEW40_Nss1,(MCS0)_4TX	20.48	0.11169
802.11ax HEW80_Nss1,(MCS0)_4TX	23.08	0.20324
5.725-5.85GHz	-	-
802.11a_Nss1,(6Mbps)_4TX	8.18	0.00658
802.11ax HEW20_Nss1,(MCS0)_4TX	10.17	0.01040
802.11ax HEW40_Nss1,(MCS0)_4TX	9.69	0.00931
802.11ax HEW80_Nss1,(MCS0)_4TX	8.52	0.00711



Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Port 3 (dBm)	Port 4 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11a_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-
5260MHz	Pass	6.14	11.21	11.38	10.69	11.10	17.12	23.65
5300MHz	Pass	6.14	11.47	11.58	10.48	11.62	17.33	23.53
5320MHz	Pass	6.14	11.29	11.29	10.54	10.90	17.04	23.57
5500MHz	Pass	6.16	11.93	11.85	10.51	11.38	17.47	23.54
5580MHz	Pass	6.16	11.05	11.07	10.9	10.26	16.85	23.46
5700MHz	Pass	6.16	11.35	11.51	9.48	10.91	16.90	23.46
5720MHz Straddle 5.47-5.725GHz	Pass	6.16	10.01	10.65	9.21	9.47	15.89	22.36
5720MHz Straddle 5.725-5.85GHz	Pass	6.70	2.50	2.17	1.06	2.72	8.18	29.30
802.11ax HEW20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5260MHz	Pass	6.14	11.25	11.24	10.07	11.44	17.05	23.84
5300MHz	Pass	6.14	12.03	12.31	11.75	11.64	17.96	23.84
5320MHz	Pass	6.14	11.31	11.66	10.49	11.85	17.38	23.84
5500MHz	Pass	6.16	12.05	12.47	10.91	12.37	18.01	23.82
5580MHz	Pass	6.16	12.11	12.04	10.56	10.90	17.48	23.82
5700MHz	Pass	6.16	11.90	11.16	10.62	11.13	17.25	23.82
5720MHz Straddle 5.47-5.725GHz	Pass	6.16	11.43	11.21	9.63	10.08	16.67	22.63
5720MHz Straddle 5.725-5.85GHz	Pass	6.70	4.52	3.89	2.88	5.02	10.17	29.30
802.11ax HEW40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5270MHz	Pass	6.14	14.91	14.72	13.38	14.98	20.56	23.84
5310MHz	Pass	6.14	14.73	14.55	14.10	14.32	20.45	23.84
5510MHz	Pass	6.16	14.22	14.09	13.42	13.32	19.80	23.82
5550MHz	Pass	6.16	15.00	14.64	14.17	13.94	20.48	23.82
5670MHz	Pass	6.16	14.50	14.58	13.33	13.62	20.06	23.82
5710MHz Straddle 5.47-5.725GHz	Pass	6.16	13.60	14.47	14.00	13.85	20.01	23.82
5710MHz Straddle 5.725-5.85GHz	Pass	6.70	3.91	3.28	3.83	3.64	9.69	29.30
802.11ax HEW80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5290MHz	Pass	6.14	15.08	14.93	14.36	14.86	20.84	23.84
5530MHz	Pass	6.16	14.99	14.52	14.30	14.13	20.52	23.82
5610MHz	Pass	6.16	17.38	17.52	16.87	16.39	23.08	23.82
5690MHz Straddle 5.47-5.725GHz	Pass	6.16	16.96	17.34	15.96	16.58	22.76	23.82
5690MHz Straddle 5.725-5.85GHz	Pass	6.70	3.11	2.46	2.85	1.41	8.52	29.30

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





Summary

Mode	Total Power (dBm)	Total Power (W)
5.25-5.35GHz	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	21.01	0.12618
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	20.95	0.12445
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	20.12	0.10280
5.47-5.725GHz	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	20.78	0.11967
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	20.94	0.12417
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	20.91	0.12331
5.725-5.85GHz	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	12.00	0.01585
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	11.11	0.01291
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	6.62	0.00459



Result

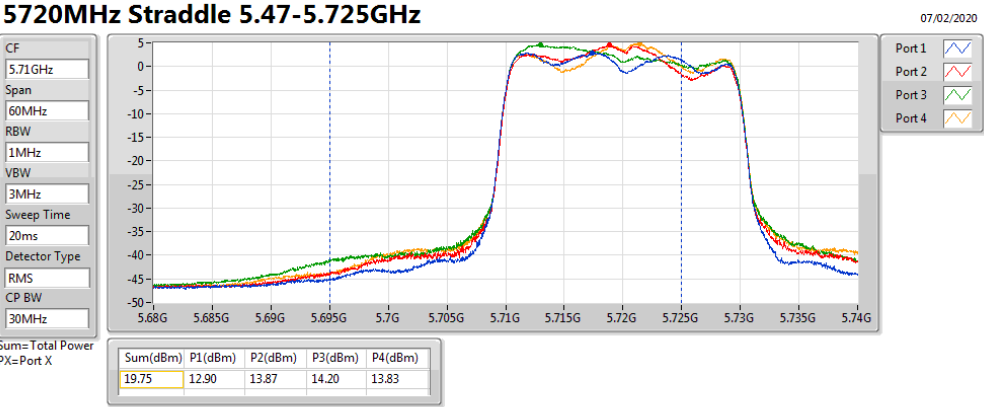
Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Port 3 (dBm)	Port 4 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5260MHz	Pass	8.66	15.01	14.55	15.22	15.14	21.01	21.32
5300MHz	Pass	8.66	14.71	14.62	14.80	15.26	20.88	21.32
5320MHz	Pass	8.66	14.25	13.50	14.13	13.72	19.93	21.32
5500MHz	Pass	8.93	15.10	14.96	14.22	14.70	20.78	21.05
5580MHz	Pass	8.93	13.64	15.00	14.65	14.85	20.59	21.05
5700MHz	Pass	8.93	13.45	13.43	13.40	14.44	19.72	21.05
5720MHz Straddle 5.47-5.725GHz	Pass	8.93	12.90	13.87	14.20	13.83	19.75	20.01
5720MHz Straddle 5.725-5.85GHz	Pass	8.79	5.87	4.80	6.62	6.40	12.00	27.21
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5270MHz	Pass	8.66	14.95	14.63	14.98	15.16	20.95	21.32
5310MHz	Pass	8.66	13.54	14.45	14.39	14.19	20.18	21.32
5510MHz	Pass	8.93	13.25	14.10	13.29	13.98	19.69	21.05
5550MHz	Pass	8.93	14.21	14.67	14.79	14.63	20.60	21.05
5670MHz	Pass	8.93	13.08	13.75	13.93	13.95	19.71	21.05
5710MHz Straddle 5.47-5.725GHz	Pass	8.93	14.57	14.59	15.53	14.90	20.94	21.05
5710MHz Straddle 5.725-5.85GHz	Pass	8.79	4.57	5.07	5.31	5.37	11.11	27.21
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5290MHz	Pass	8.66	14.48	13.58	14.03	14.25	20.12	21.32
5530MHz	Pass	8.93	13.81	14.23	13.35	13.98	19.87	21.05
5610MHz	Pass	8.93	13.95	14.37	14.68	13.71	20.21	21.05
5690MHz Straddle 5.47-5.725GHz	Pass	8.93	14.50	14.80	15.25	14.98	20.91	21.05
5690MHz Straddle 5.725-5.85GHz	Pass	8.79	-0.84	1.08	0.66	1.20	6.62	27.21

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



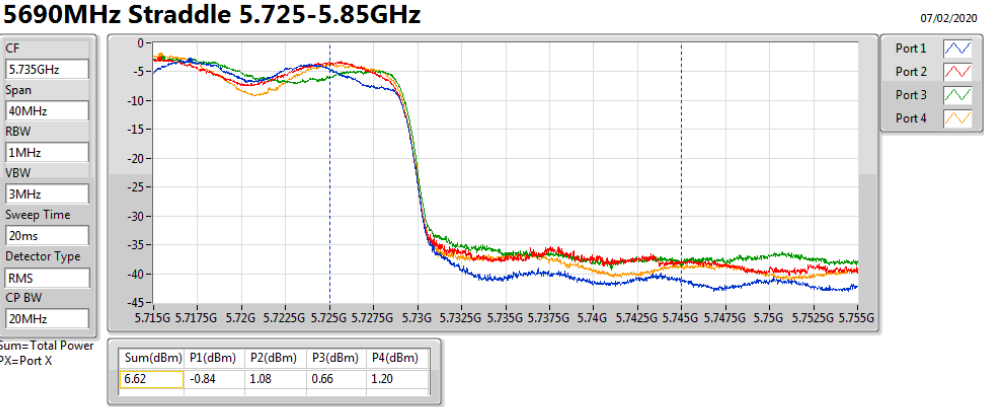
802.11ax HEW20-BF_Nss1,(MCS0)_4TX

AV Power



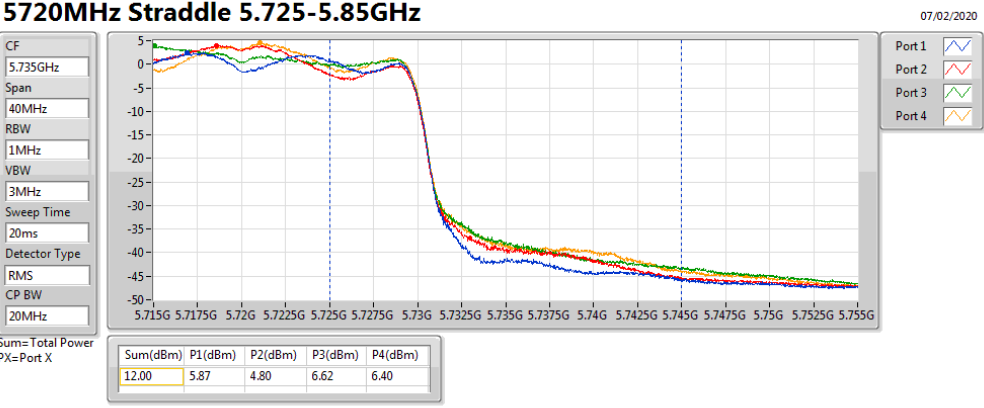
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AV Power



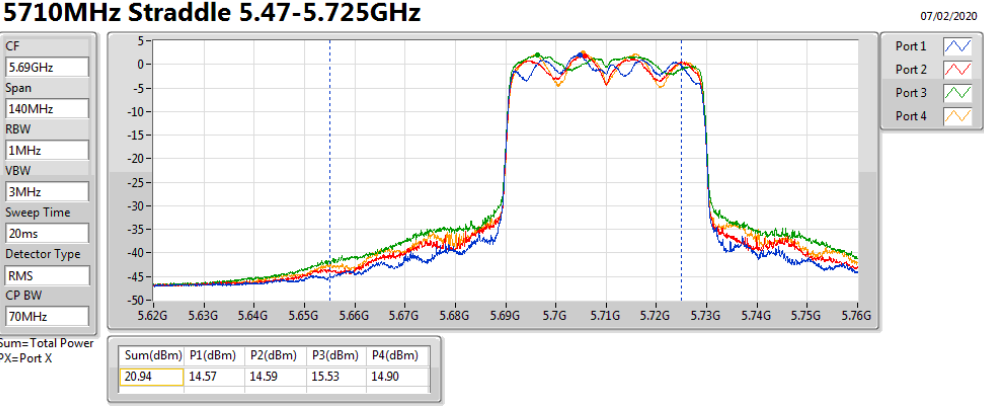
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AV Power



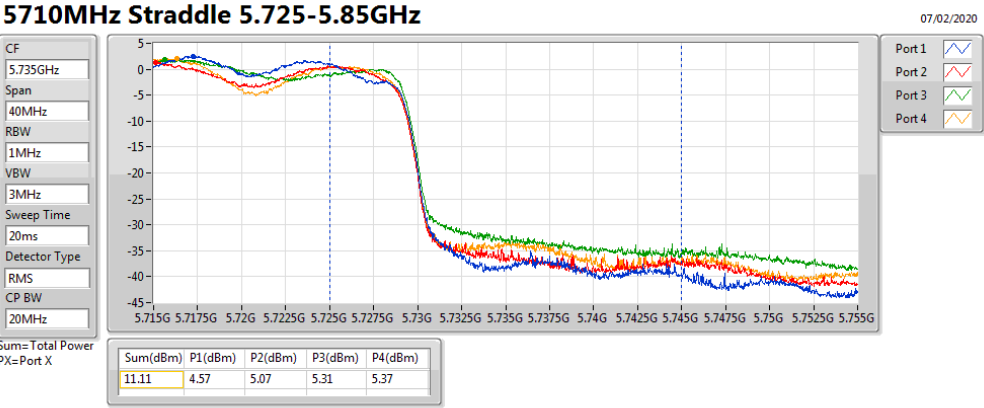
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AV Power



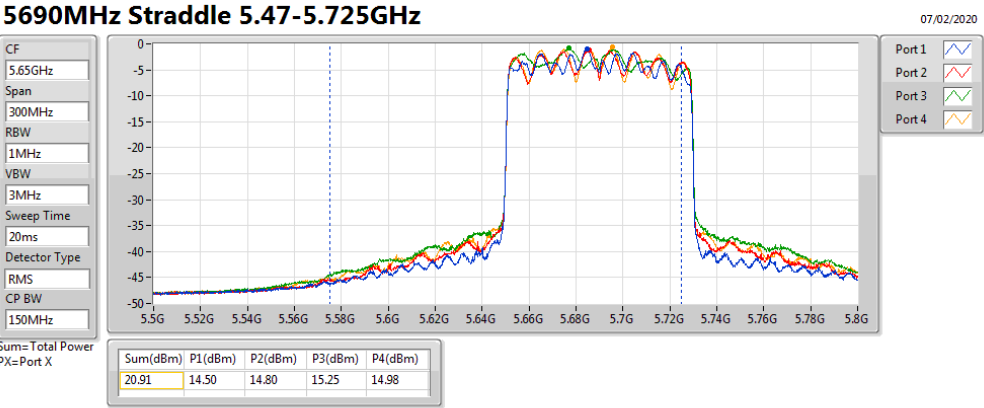
802.11ax HEW40-BF_Nss1,(MCS0)_4TX

AV Power



802.11ax HEW80-BF_Nss1,(MCS0)_4TX

AV Power





Summary

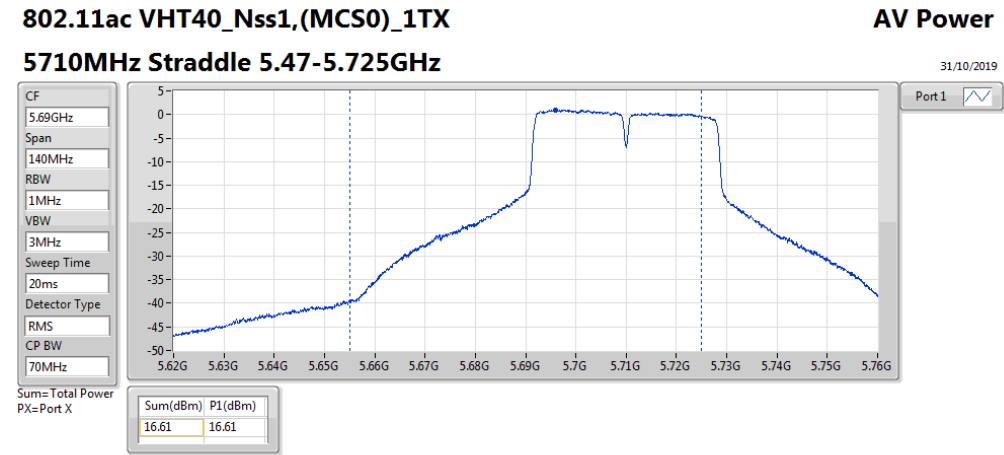
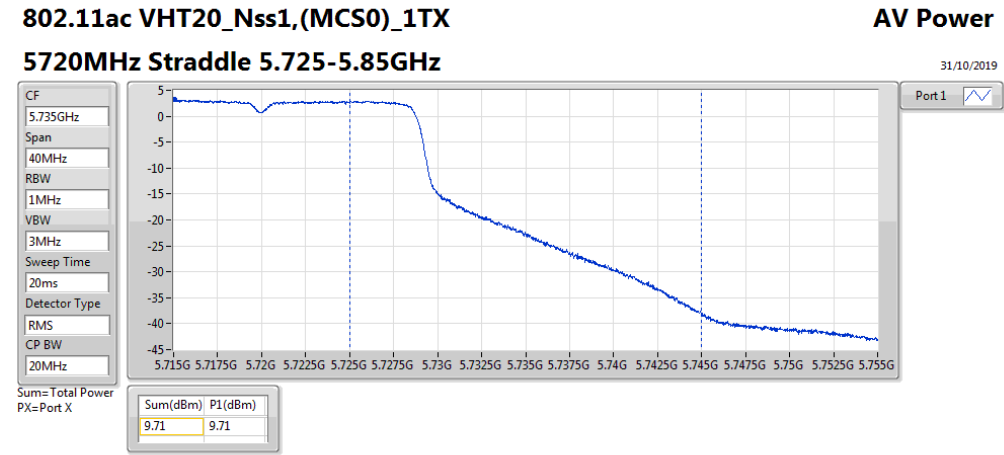
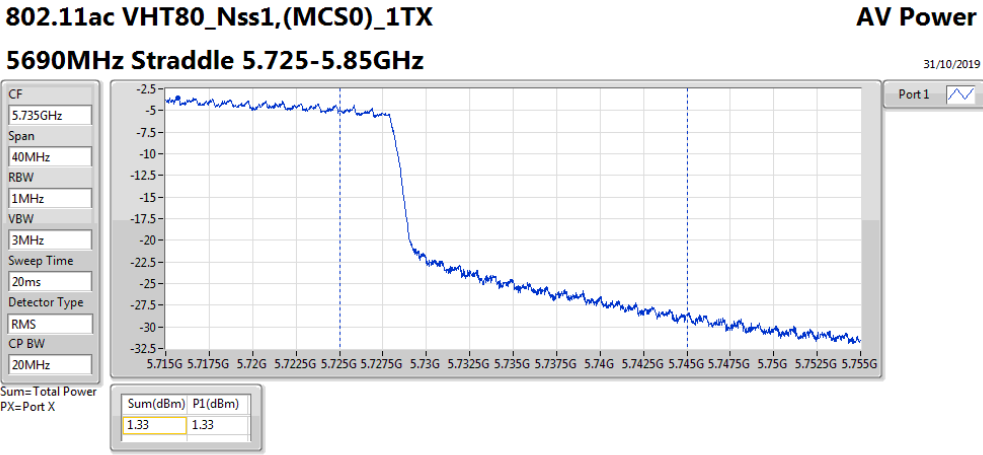
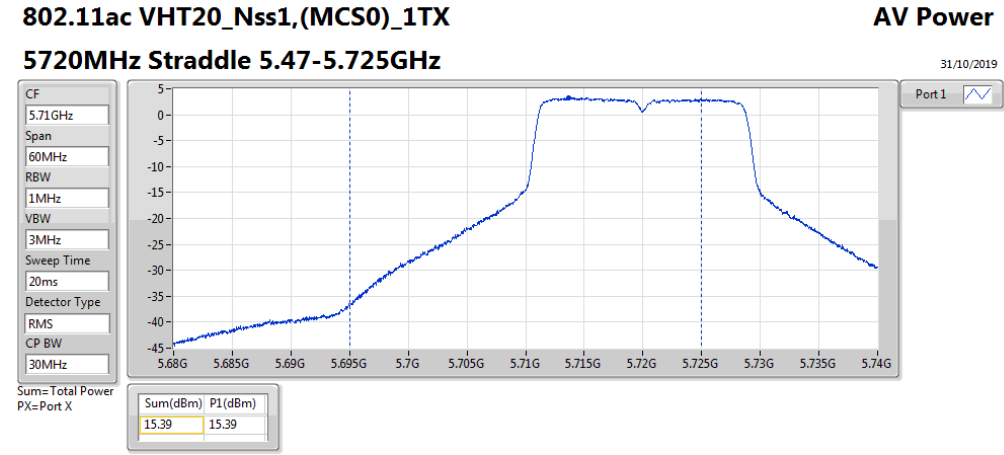
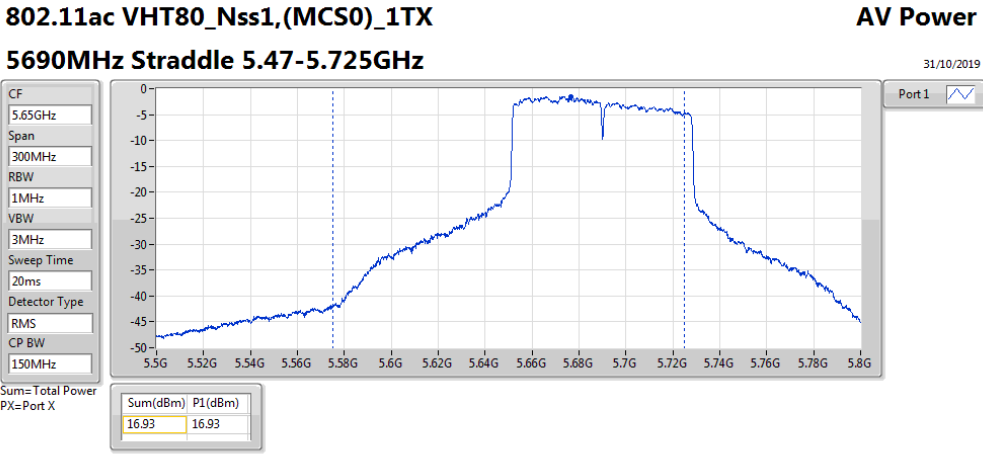
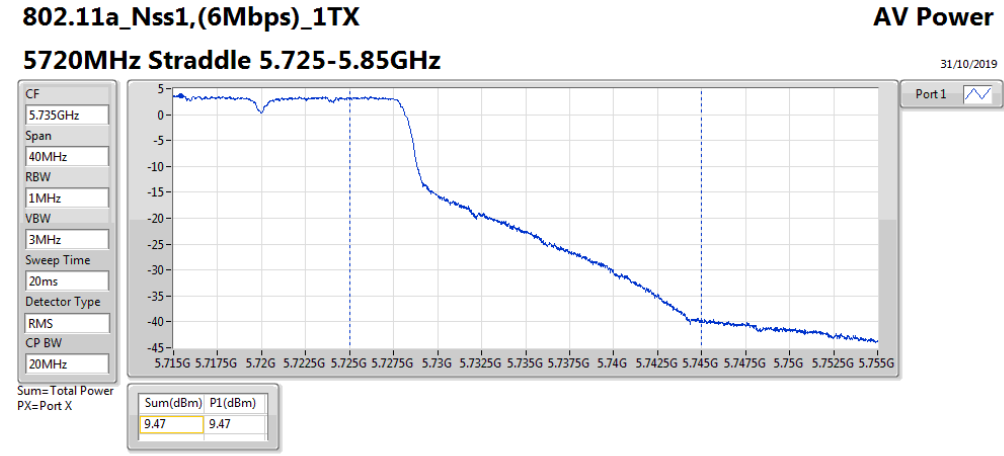
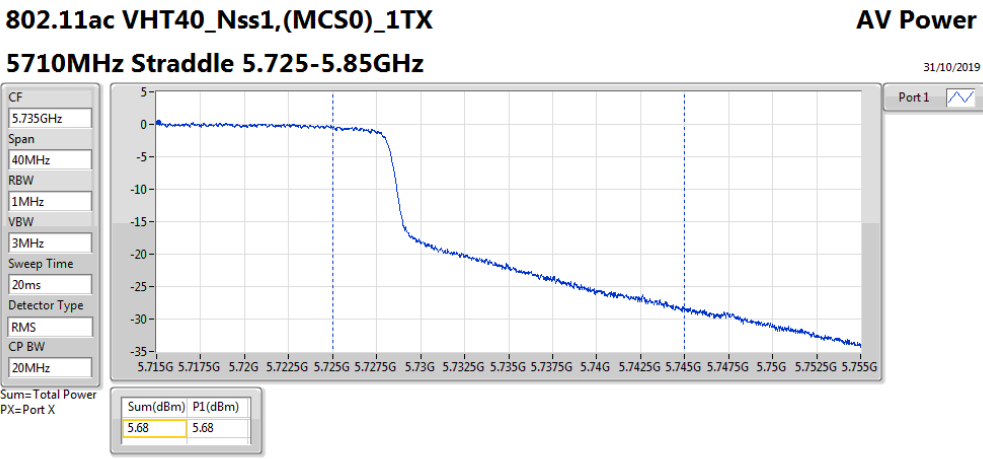
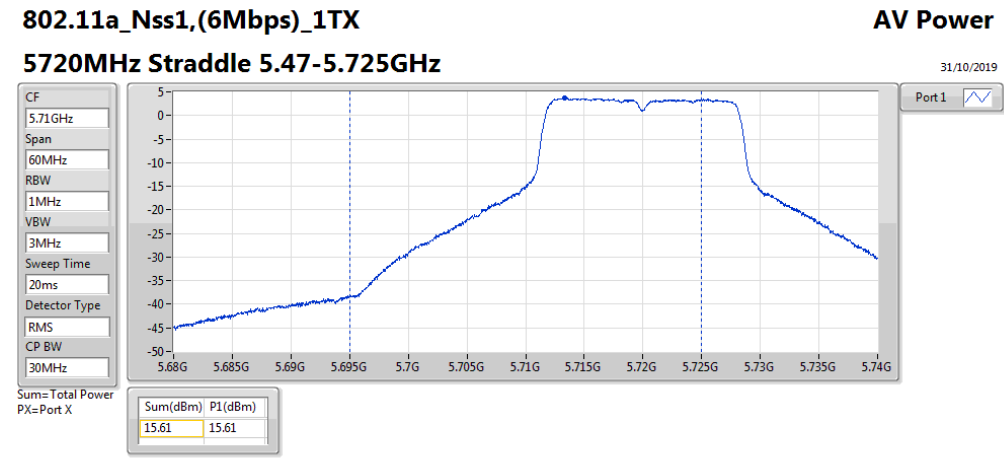
Mode	Total Power (dBm)	Total Power (W)
5.25-5.35GHz	-	-
802.11a_Nss1,(6Mbps)_1TX	18.49	0.07063
802.11ac VHT20_Nss1,(MCS0)_1TX	18.22	0.06637
802.11ac VHT40_Nss1,(MCS0)_1TX	18.58	0.07211
802.11ac VHT80_Nss1,(MCS0)_1TX	10.13	0.01030
5.47-5.725GHz	-	-
802.11a_Nss1,(6Mbps)_1TX	17.79	0.06012
802.11ac VHT20_Nss1,(MCS0)_1TX	17.80	0.06026
802.11ac VHT40_Nss1,(MCS0)_1TX	17.96	0.06252
802.11ac VHT80_Nss1,(MCS0)_1TX	17.10	0.05129
5.725-5.85GHz	-	-
802.11a_Nss1,(6Mbps)_1TX	9.47	0.00885
802.11ac VHT20_Nss1,(MCS0)_1TX	9.71	0.00935
802.11ac VHT40_Nss1,(MCS0)_1TX	5.68	0.00370
802.11ac VHT80_Nss1,(MCS0)_1TX	1.33	0.00136



Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11a_Nss1,(6Mbps)_1TX	-	-	-	-	-
5260MHz	Pass	6.27	18.30	18.30	23.71
5300MHz	Pass	6.27	18.49	18.49	23.71
5320MHz	Pass	6.27	18.16	18.16	23.71
5500MHz	Pass	6.27	16.48	16.48	23.71
5580MHz	Pass	6.27	17.79	17.79	23.71
5700MHz	Pass	6.27	16.74	16.74	23.71
5720MHz Straddle 5.47-5.725GHz	Pass	6.27	15.61	15.61	23.71
5720MHz Straddle 5.725-5.85GHz	Pass	6.27	9.47	9.47	29.73
802.11ac VHT20_Nss1,(MCS0)_1TX	-	-	-	-	-
5260MHz	Pass	6.27	18.22	18.22	23.71
5300MHz	Pass	6.27	18.11	18.11	23.71
5320MHz	Pass	6.27	17.41	17.41	23.71
5500MHz	Pass	6.27	16.37	16.37	23.71
5580MHz	Pass	6.27	17.80	17.80	23.71
5700MHz	Pass	6.27	14.76	14.76	23.71
5720MHz Straddle 5.47-5.725GHz	Pass	6.27	15.39	15.39	23.71
5720MHz Straddle 5.725-5.85GHz	Pass	6.27	9.71	9.71	29.73
802.11ac VHT40_Nss1,(MCS0)_1TX	-	-	-	-	-
5270MHz	Pass	6.27	18.58	18.58	23.71
5310MHz	Pass	6.27	17.24	17.24	23.71
5510MHz	Pass	6.27	16.10	16.10	23.71
5550MHz	Pass	6.27	17.96	17.96	23.71
5670MHz	Pass	6.27	17.73	17.73	23.71
5710MHz Straddle 5.47-5.725GHz	Pass	6.27	16.61	16.61	23.71
5710MHz Straddle 5.725-5.85GHz	Pass	6.27	5.68	5.68	29.73
802.11ac VHT80_Nss1,(MCS0)_1TX	-	-	-	-	-
5290MHz	Pass	6.27	10.13	10.13	23.71
5530MHz	Pass	6.27	13.39	13.39	23.71
5690MHz Straddle 5.47-5.725GHz	Pass	6.27	16.93	16.93	23.71
5610MHz	Pass	6.27	17.10	17.10	23.71
5690MHz Straddle 5.725-5.85GHz	Pass	6.27	1.33	1.33	29.73

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





Summary

Mode	PD (dBm/RBW)
5.25-5.35GHz	-
802.11a_Nss1,(6Mbps)_8TX	1.37
802.11ax HEW20_Nss1,(MCS0)_8TX	1.42
802.11ax HEW40_Nss1,(MCS0)_8TX	1.31
802.11ax HEW80_Nss1,(MCS0)_8TX	1.02
5.47-5.725GHz	-
802.11a_Nss1,(6Mbps)_8TX	1.63
802.11ax HEW20_Nss1,(MCS0)_8TX	1.76
802.11ax HEW40_Nss1,(MCS0)_8TX	1.67
802.11ax HEW80_Nss1,(MCS0)_8TX	1.70
5.725-5.85GHz	-
802.11a_Nss1,(6Mbps)_8TX	-1.58
802.11ax HEW20_Nss1,(MCS0)_8TX	-0.79
802.11ax HEW40_Nss1,(MCS0)_8TX	-1.49
802.11ax HEW80_Nss1,(MCS0)_8TX	-2.18

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



Result

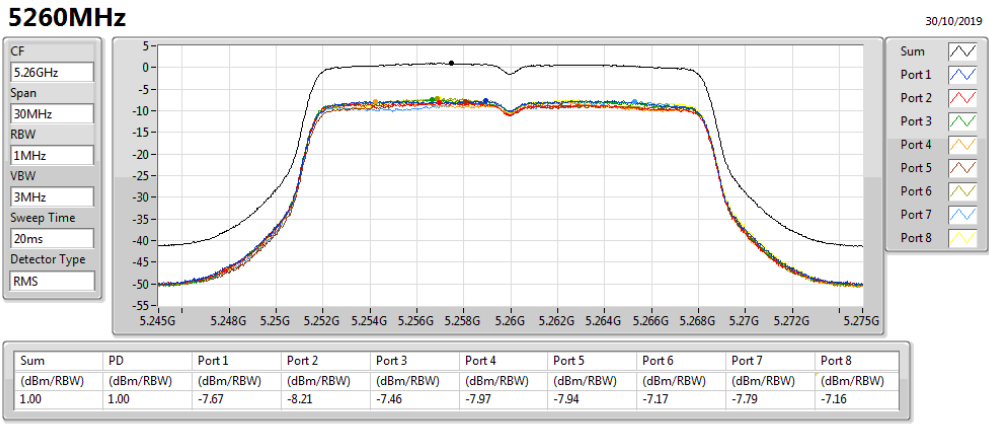
Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	Port 3 (dBm/RBW)	Port 4 (dBm/RBW)	Port 5 (dBm/RBW)	Port 6 (dBm/RBW)	Port 7 (dBm/RBW)	Port 8 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11a_Nss1,(6Mbps)_8TX	-	-	-	-	-	-	-	-	-	-	-	-
5260MHz	Pass	15.53	-7.67	-8.21	-7.46	-7.97	-7.94	-7.17	-7.79	-7.16	1.00	1.47
5300MHz	Pass	15.53	-7.25	-7.49	-7.64	-7.70	-7.66	-6.76	-7.66	-7.42	1.10	1.47
5320MHz	Pass	15.53	-7.33	-7.22	-7.29	-7.65	-7.05	-6.32	-7.19	-7.12	1.37	1.47
5500MHz	Pass	15.19	-6.25	-7.37	-7.58	-7.64	-6.39	-5.27	-6.09	-7.28	1.44	1.81
5580MHz	Pass	15.19	-6.05	-6.83	-8.18	-5.80	-5.38	-5.76	-5.09	-6.79	1.60	1.81
5700MHz	Pass	15.19	-6.35	-6.60	-8.47	-6.83	-6.16	-7.02	-6.53	-6.20	1.47	1.81
5720MHz Straddle 5.47-5.725GHz	Pass	15.19	-6.10	-6.03	-6.26	-6.90	-5.79	-7.01	-6.62	-6.75	1.63	1.81
5720MHz Straddle 5.725-5.85GHz	Pass	15.73	-10.38	-9.75	-10.40	-9.81	-9.00	-9.24	-9.83	-10.33	-1.58	20.27
802.11ax HEW20_Nss1,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-
5260MHz	Pass	15.53	-6.64	-7.17	-7.32	-7.32	-7.25	-6.66	-7.31	-7.10	1.42	1.47
5300MHz	Pass	15.53	-7.74	-7.15	-7.47	-7.65	-7.15	-7.21	-7.14	-7.35	1.12	1.47
5320MHz	Pass	15.53	-7.68	-7.40	-7.43	-7.82	-7.70	-6.81	-7.70	-7.66	1.06	1.47
5500MHz	Pass	15.19	-6.15	-6.75	-6.92	-5.81	-5.73	-6.00	-6.94	-7.31	1.61	1.81
5580MHz	Pass	15.19	-5.89	-7.04	-7.19	-7.16	-5.98	-6.81	-7.16	-6.61	1.67	1.81
5700MHz	Pass	15.19	-6.59	-5.78	-6.17	-6.69	-5.22	-6.29	-6.12	-6.66	1.76	1.81
5720MHz Straddle 5.47-5.725GHz	Pass	15.19	-6.56	-6.61	-6.28	-6.41	-6.17	-6.61	-5.59	-6.05	1.63	1.81
5720MHz Straddle 5.725-5.85GHz	Pass	15.73	-8.65	-8.77	-9.94	-9.50	-8.39	-10.36	-11.18	-8.76	-0.79	20.27
802.11ax HEW40_Nss1,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-
5270MHz	Pass	15.53	-7.18	-6.83	-7.39	-7.08	-7.19	-6.45	-7.61	-7.27	1.31	1.47
5310MHz	Pass	15.53	-7.41	-7.60	-7.86	-7.16	-7.77	-6.90	-7.48	-7.40	1.02	1.47
5510MHz	Pass	15.19	-6.18	-6.66	-6.13	-6.92	-5.91	-5.96	-6.81	-7.24	1.67	1.81
5550MHz	Pass	15.19	-6.10	-6.95	-5.50	-7.15	-5.42	-4.88	-7.67	-7.23	1.40	1.81
5670MHz	Pass	15.19	-5.85	-6.39	-6.63	-6.53	-5.74	-4.93	-6.62	-6.97	1.57	1.81
5710MHz Straddle 5.47-5.725GHz	Pass	15.19	-6.17	-6.84	-6.92	-6.86	-5.66	-5.75	-6.46	-7.31	1.50	1.81
5710MHz Straddle 5.725-5.85GHz	Pass	15.73	-9.37	-9.94	-9.56	-10.41	-9.49	-9.45	-11.35	-10.47	-1.49	20.27
802.11ax HEW80_Nss1,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-
5290MHz	Pass	15.53	-7.19	-7.36	-7.53	-7.33	-7.44	-6.85	-7.41	-7.50	1.02	1.47
5530MHz	Pass	15.19	-6.13	-6.79	-6.09	-6.95	-5.56	-5.49	-7.55	-7.07	1.32	1.81
5690MHz Straddle 5.47-5.725GHz	Pass	15.19	-6.39	-6.62	-6.81	-6.88	-5.28	-5.11	-6.29	-6.79	1.70	1.81
5610MHz	Pass	15.19	-6.05	-6.39	-5.88	-6.96	-5.54	-5.00	-7.38	-6.97	1.52	1.81
5690MHz Straddle 5.725-5.85GHz	Pass	15.73	-10.52	-10.99	-10.46	-11.29	-9.72	-9.66	-11.76	-11.15	-2.18	20.27

DG = Directional Gain; For UNII-1, UNII-2A and UNII-2C, RBW = 500kHz for 5.725-5.85GHz band / 1MHz for other band;
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; Port X = Port X power density;



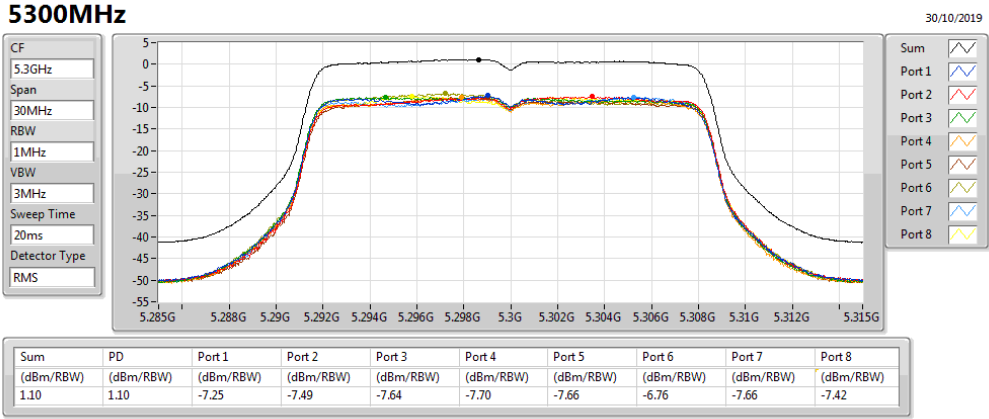
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PSD



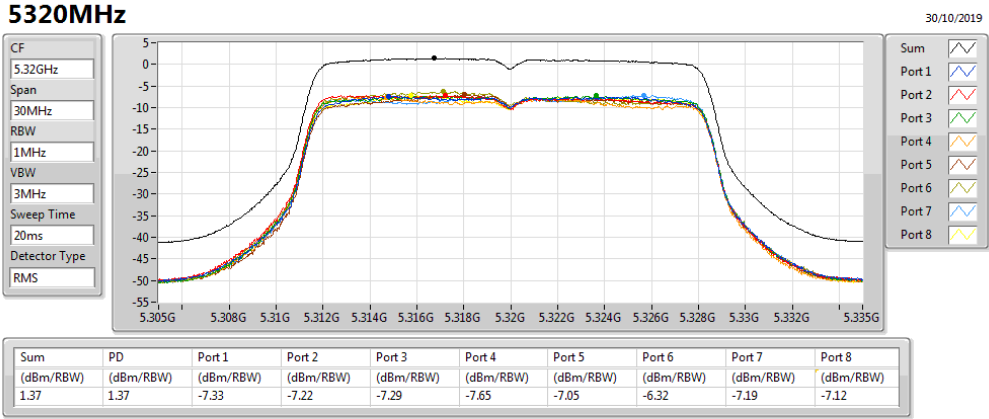
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PSD



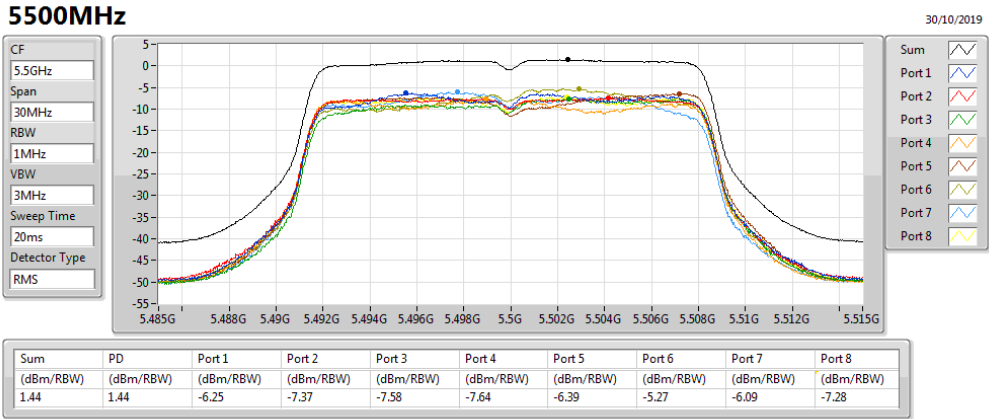
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PSD



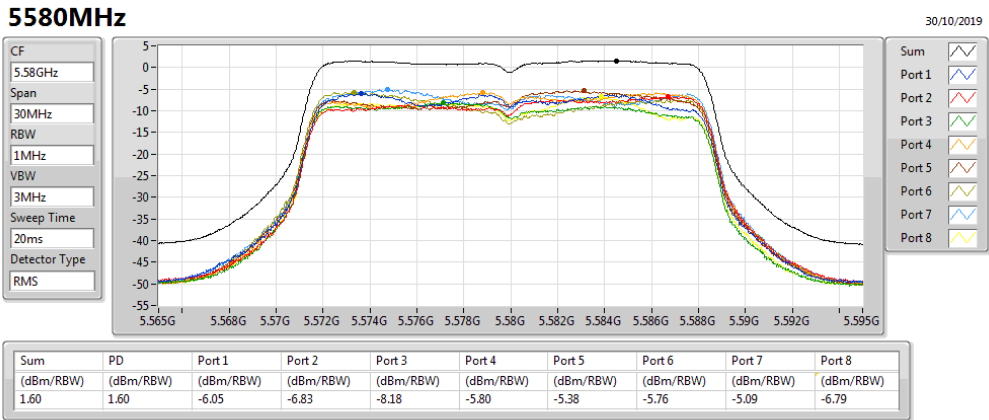
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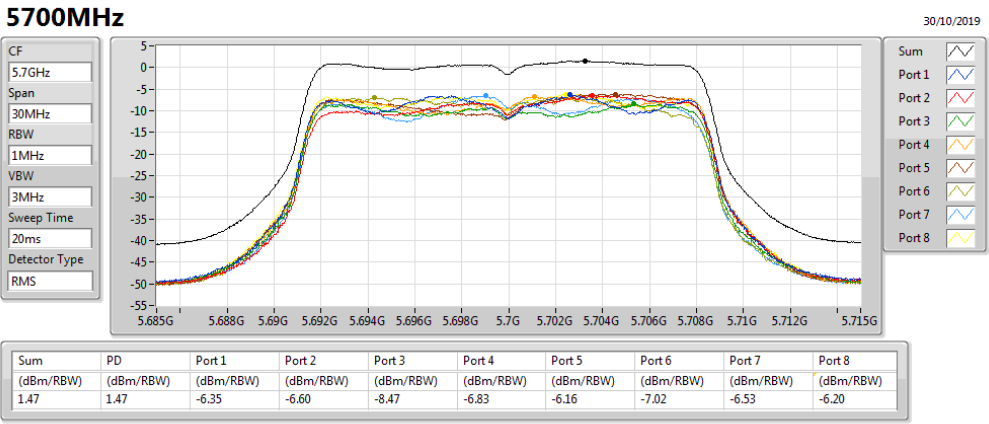
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PSD



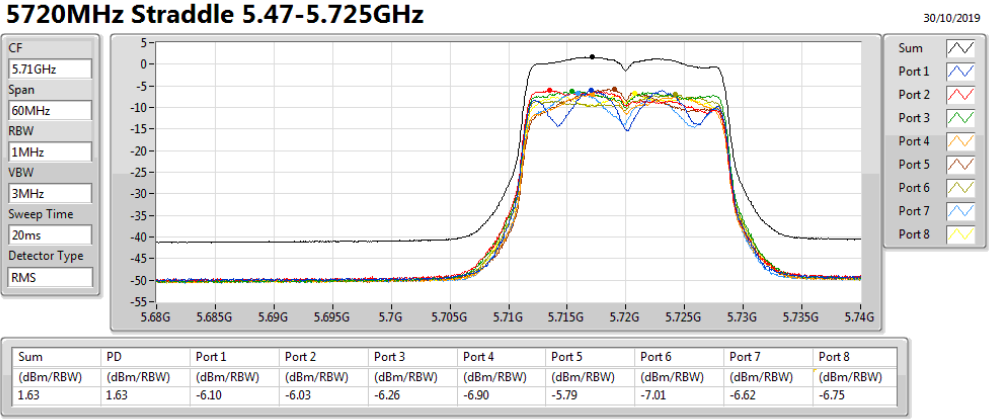
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PSD



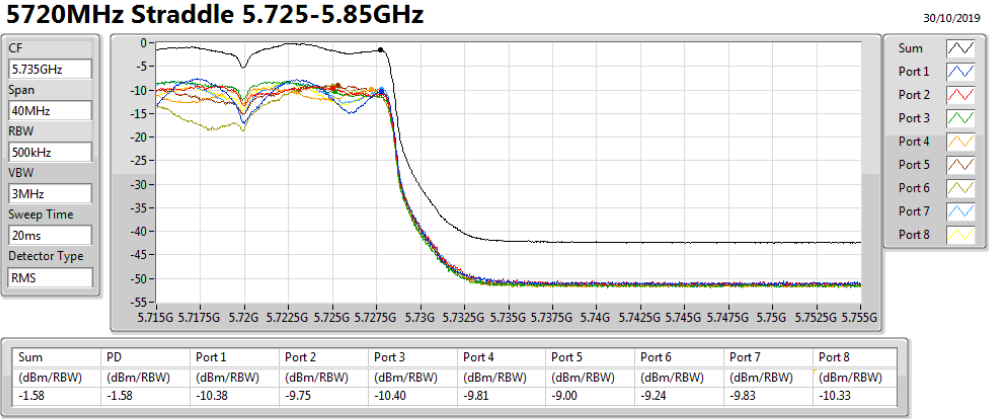
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PSD



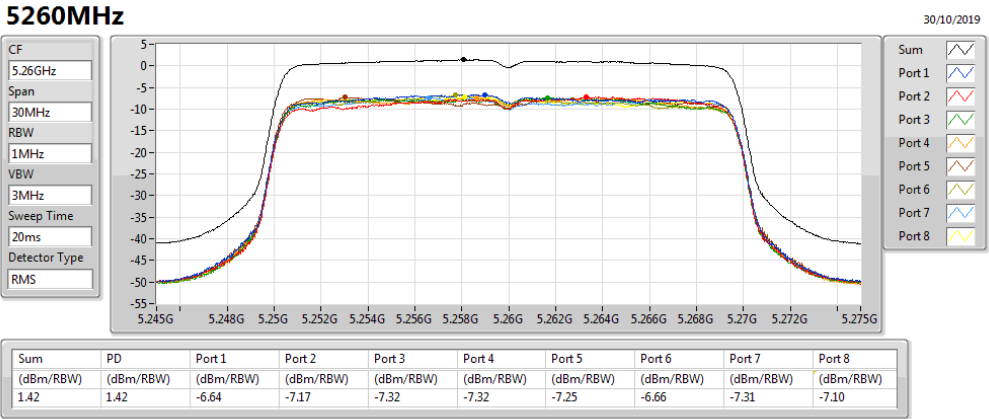
802.11a_Nss1,(6Mbps)_8TX

PSD



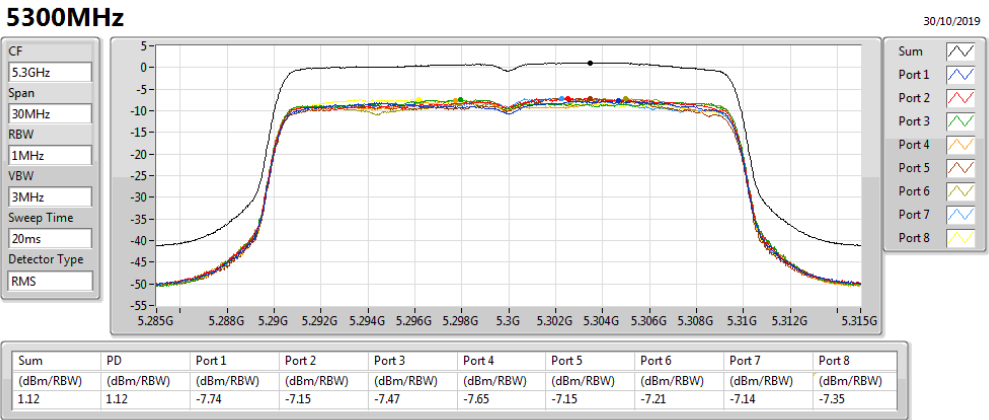
802.11ax HEW20_Nss1,(MCS0)_8TX

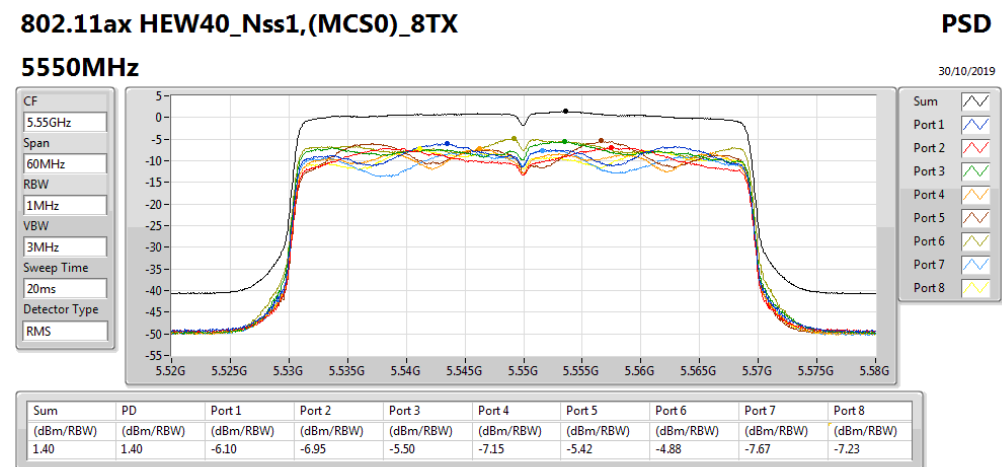
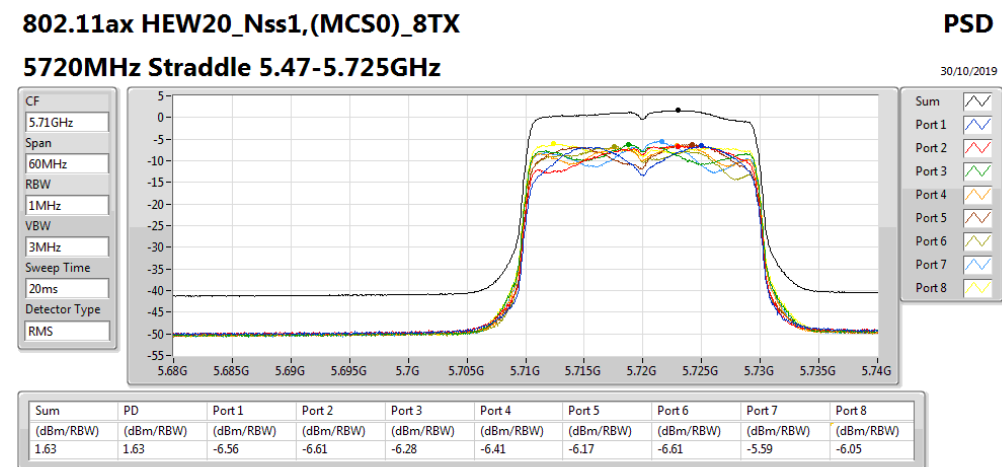
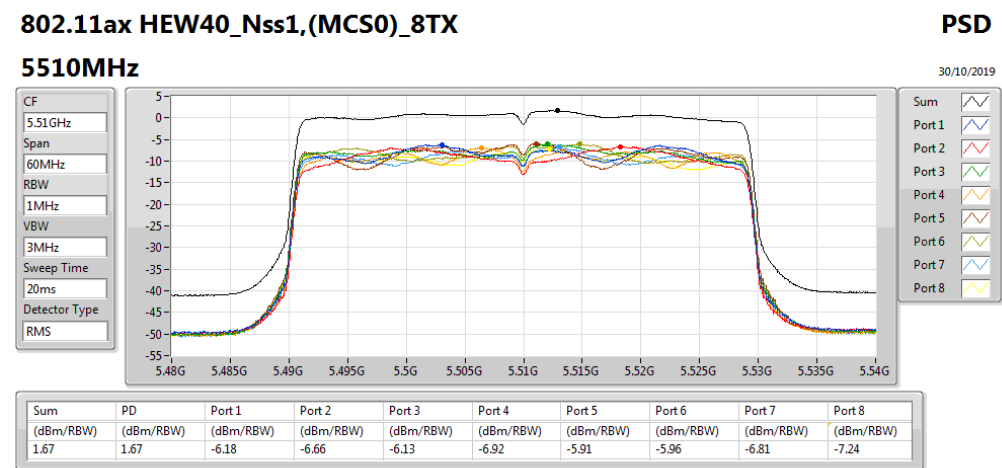
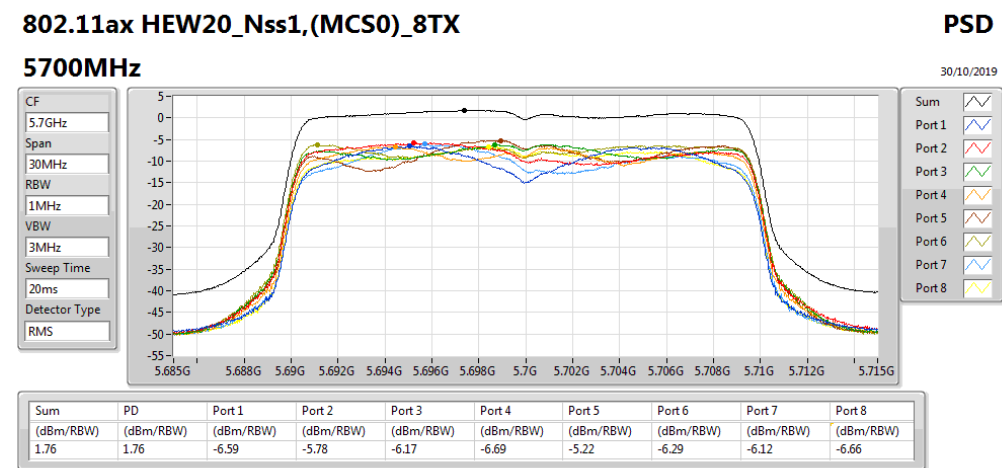
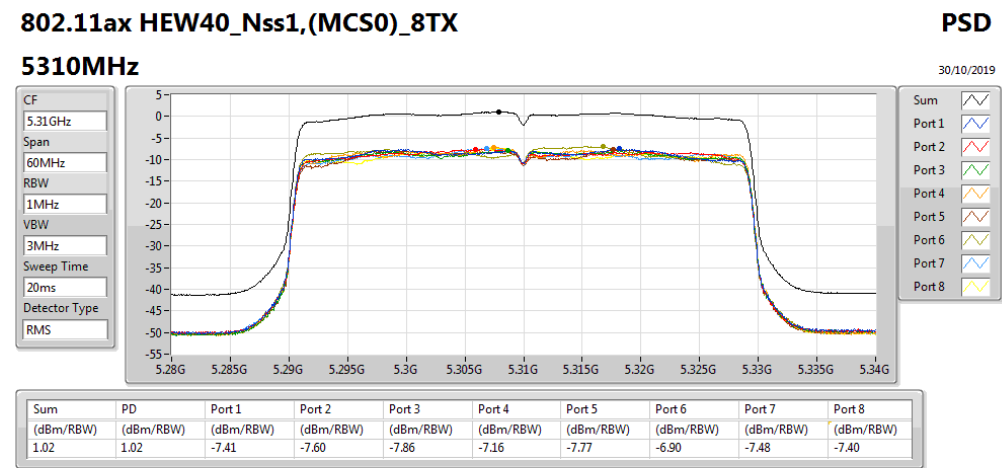
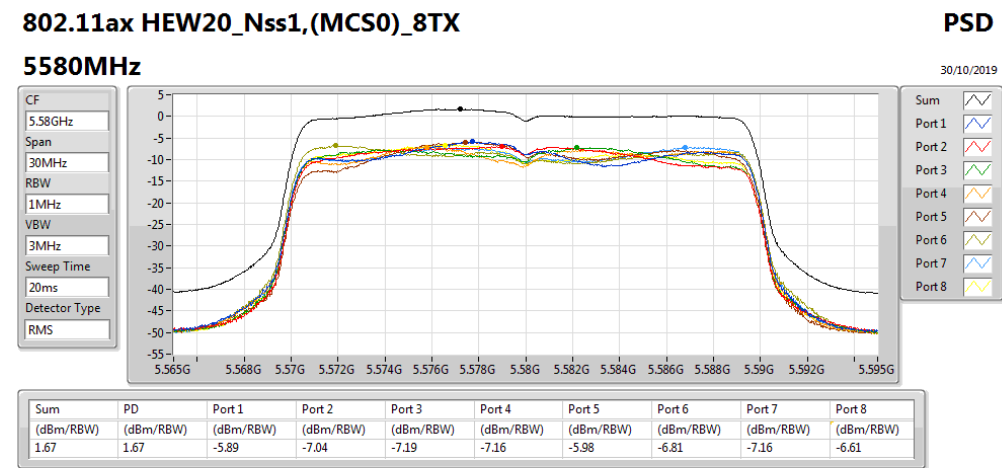
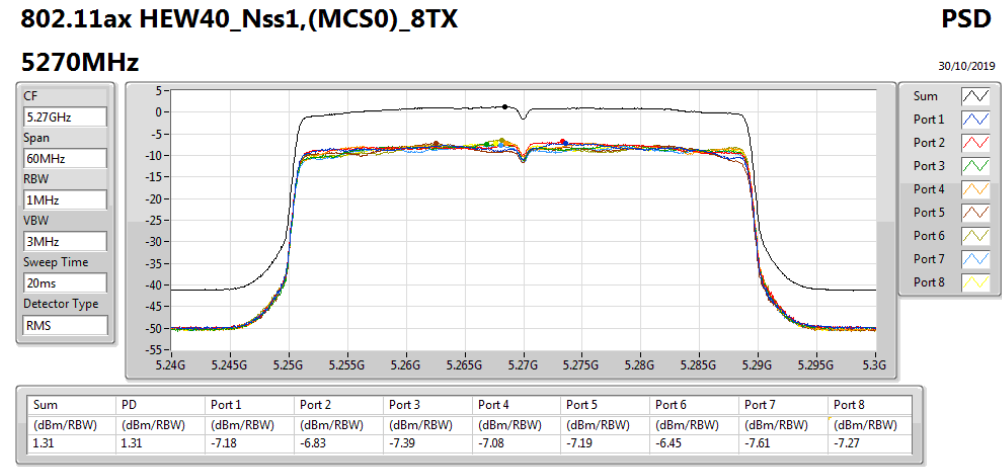
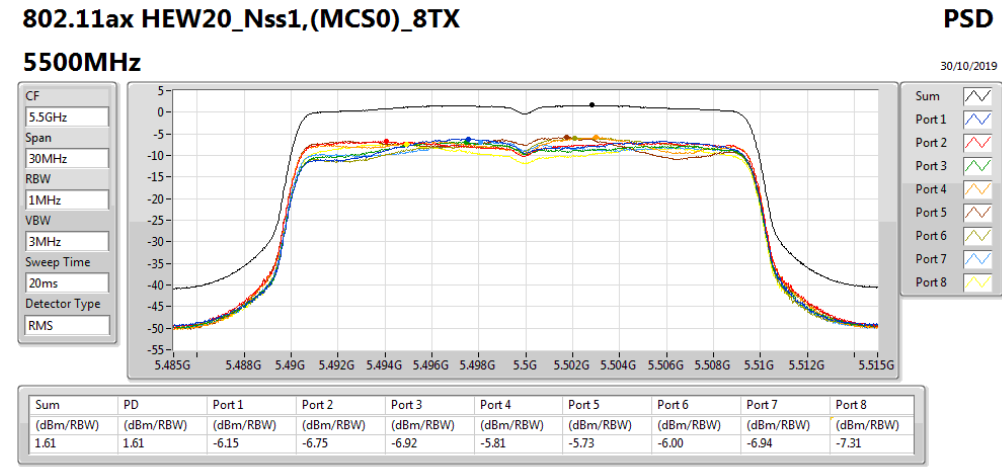
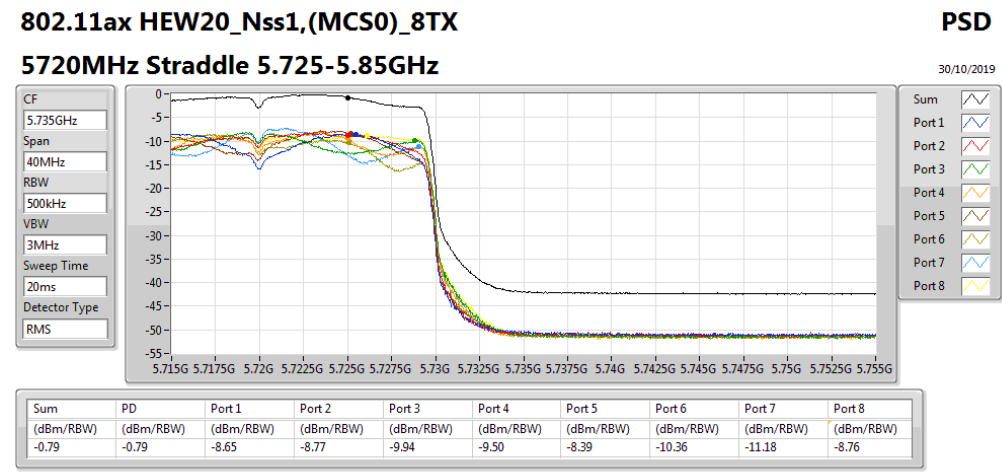
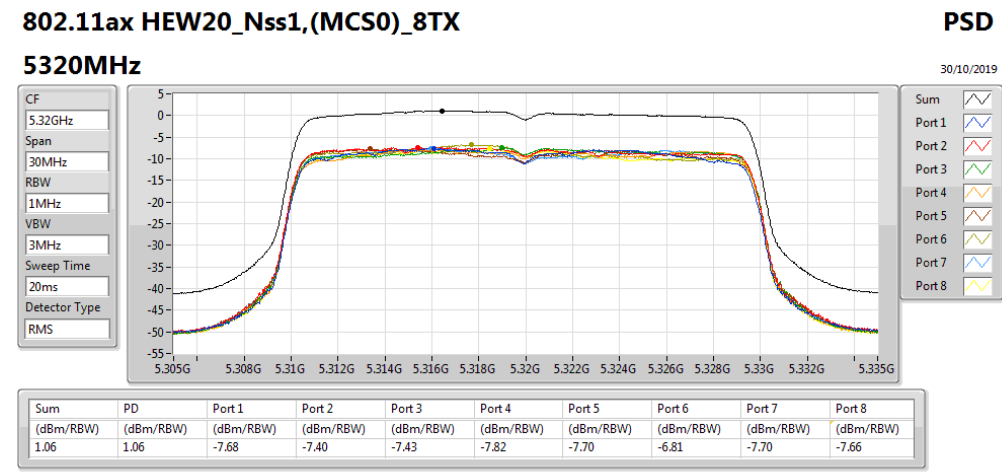
PSD



802.11ax HEW20_Nss1,(MCS0)_8TX

PSD





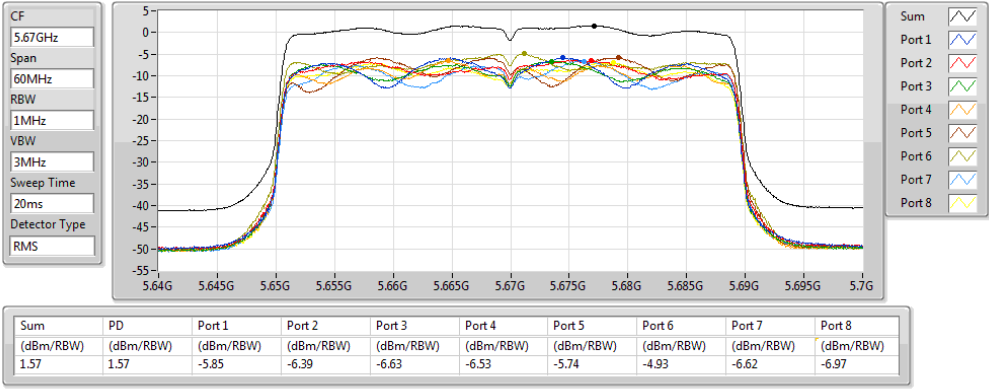


802.11ax HEW40_Nss1,(MCS0)_8TX

PSD

5670MHz

30/10/2019

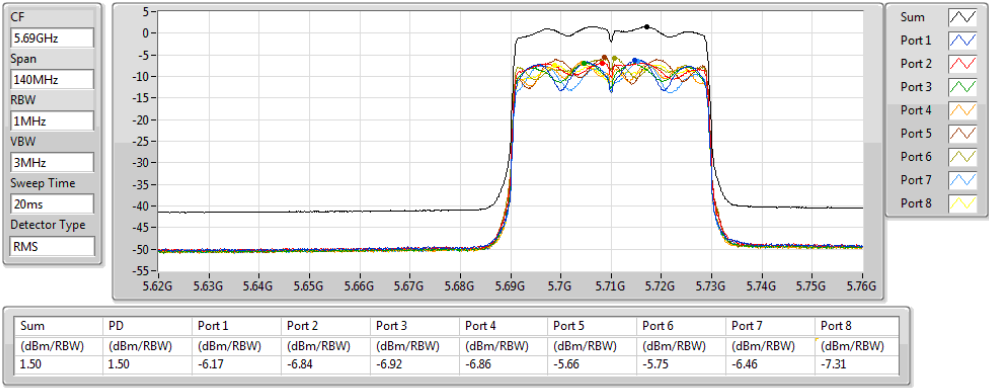


802.11ax HEW40_Nss1,(MCS0)_8TX

PSD

5710MHz Straddle 5.47-5.725GHz

30/10/2019

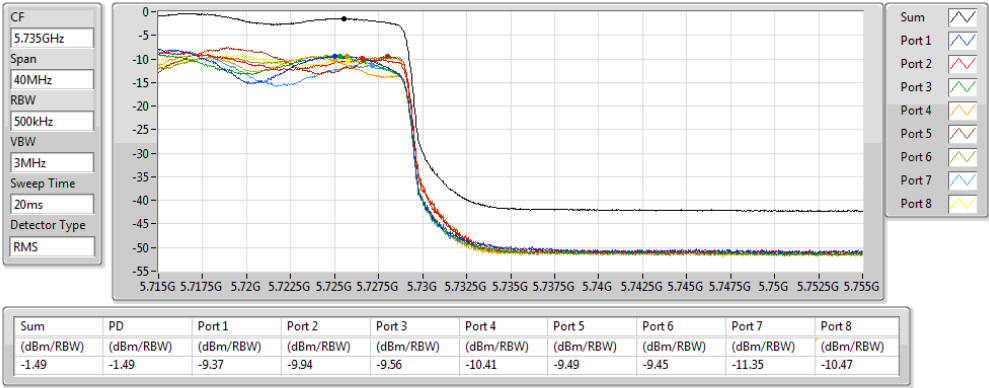


802.11ax HEW40_Nss1,(MCS0)_8TX

PSD

5710MHz Straddle 5.725-5.85GHz

30/10/2019

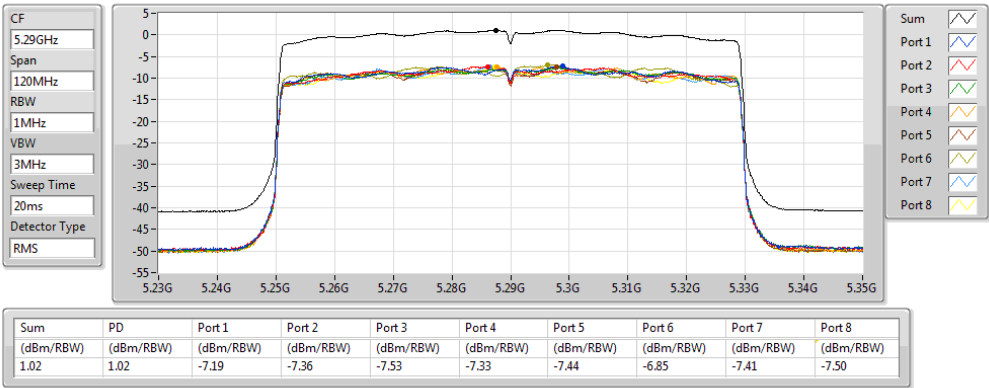


802.11ax HEW80_Nss1,(MCS0)_8TX

PSD

5290MHz

30/10/2019

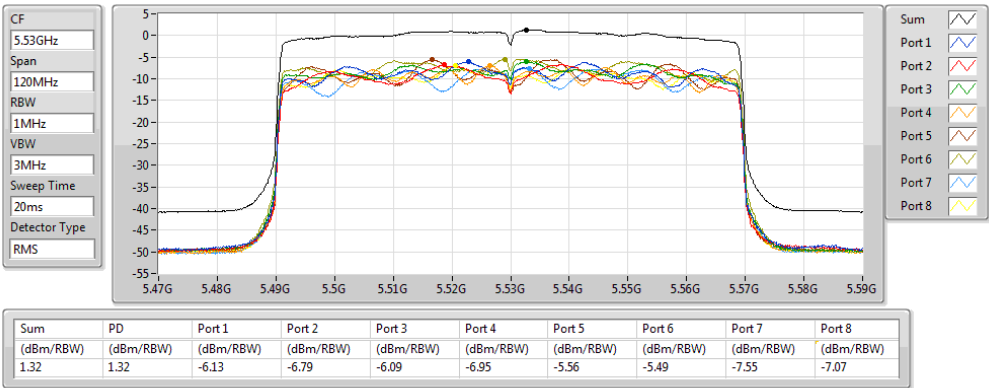


802.11ax HEW80_Nss1,(MCS0)_8TX

PSD

5530MHz

30/10/2019

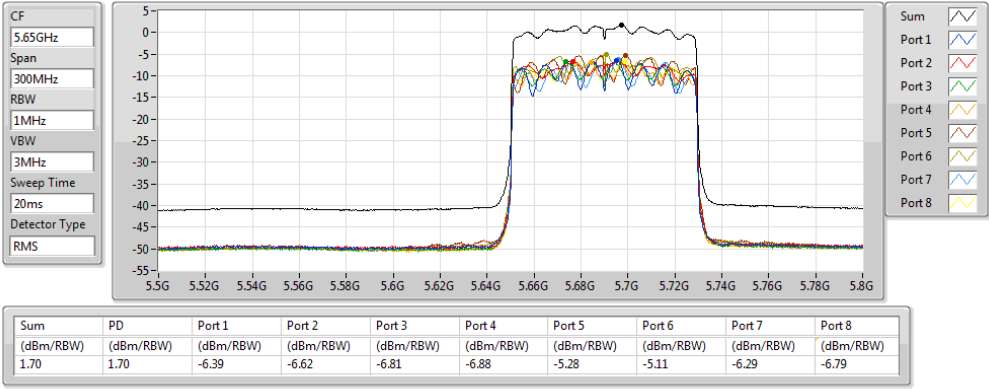


802.11ax HEW80_Nss1,(MCS0)_8TX

PSD

5690MHz Straddle 5.47-5.725GHz

30/10/2019

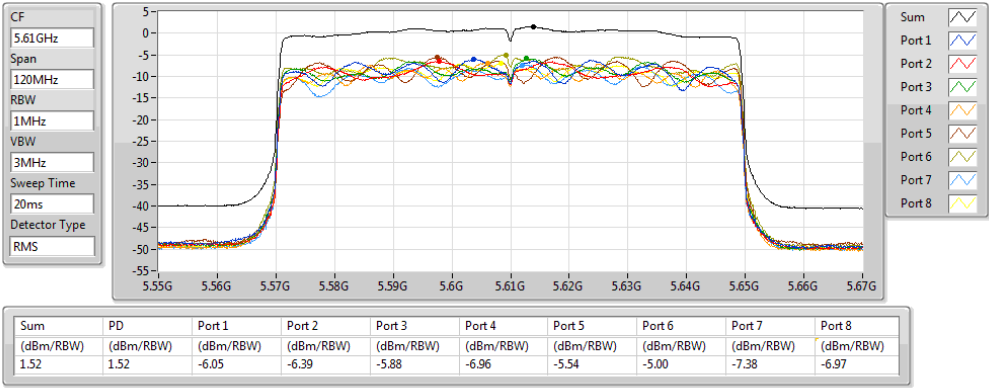


802.11ax HEW80_Nss1,(MCS0)_8TX

PSD

5610MHz

30/10/2019

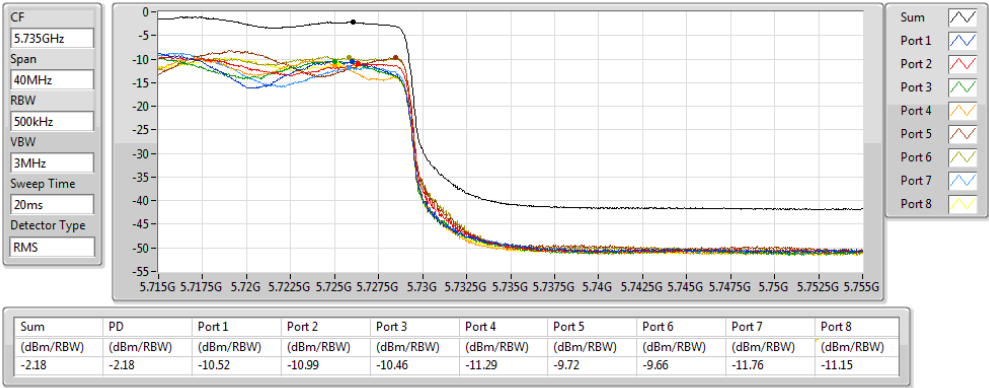


802.11ax HEW80_Nss1,(MCS0)_8TX

PSD

5690MHz Straddle 5.725-5.85GHz

30/10/2019





Summary

Mode	PD (dBm/RBW)
5.25-5.35GHz	-
802.11ax HEW20-BF_Nss1,(MCS0)_8TX	5.49
802.11ax HEW40-BF_Nss1,(MCS0)_8TX	2.14
802.11ax HEW80-BF_Nss1,(MCS0)_8TX	-0.04
5.47-5.725GHz	-
802.11ax HEW20-BF_Nss1,(MCS0)_8TX	5.93
802.11ax HEW40-BF_Nss1,(MCS0)_8TX	3.54
802.11ax HEW80-BF_Nss1,(MCS0)_8TX	0.38
5.725-5.85GHz	-
802.11ax HEW20-BF_Nss1,(MCS0)_8TX	2.33
802.11ax HEW40-BF_Nss1,(MCS0)_8TX	0.53
802.11ax HEW80-BF_Nss1,(MCS0)_8TX	-3.27

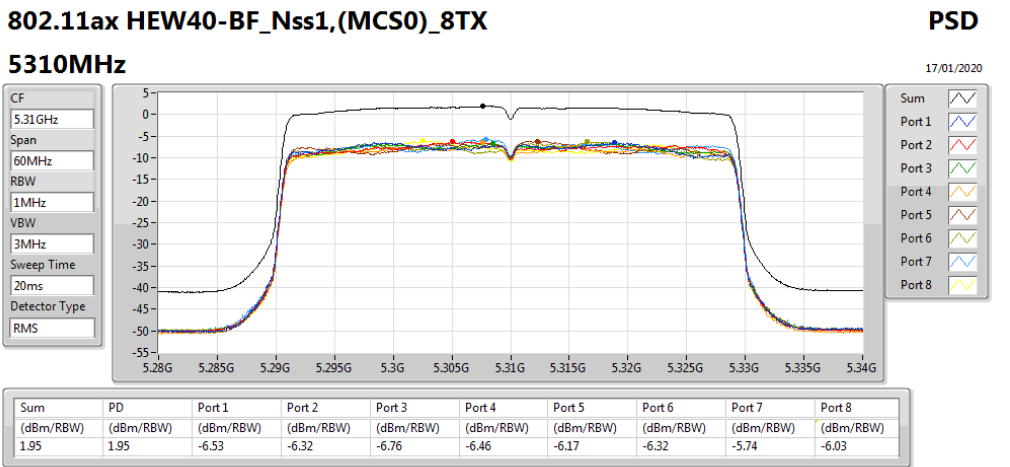
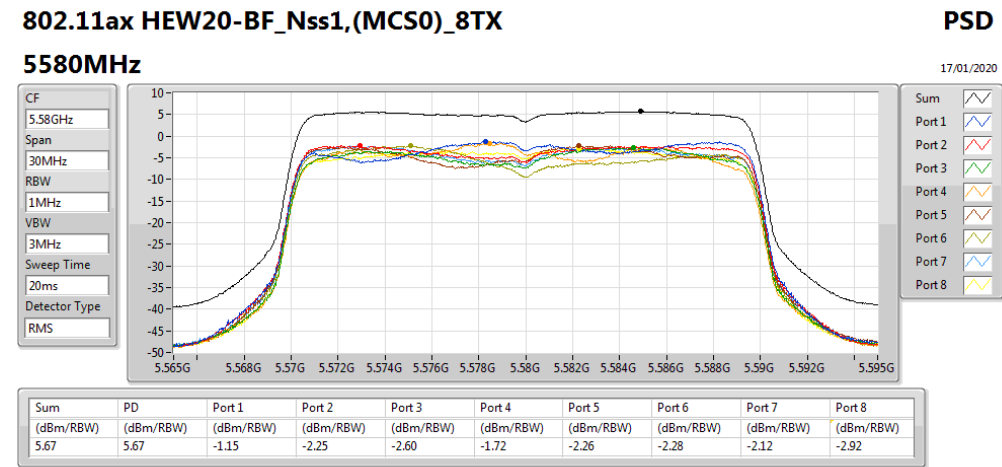
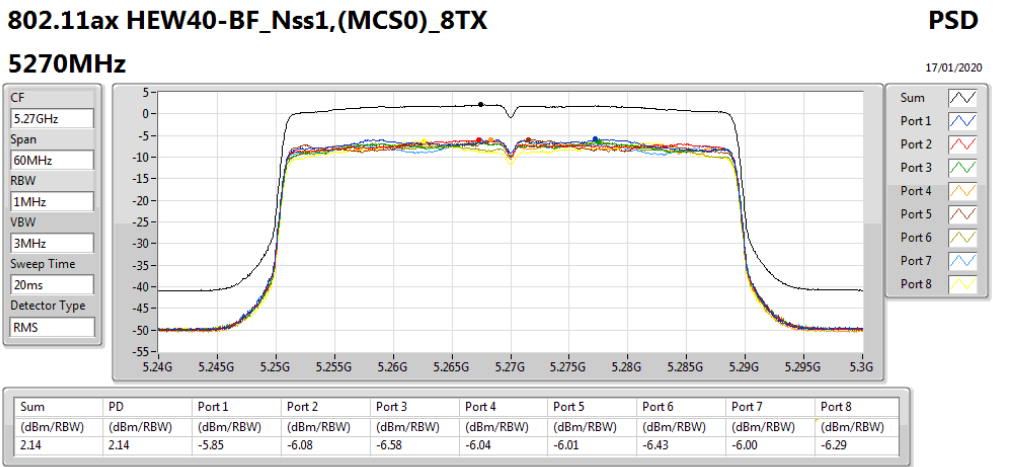
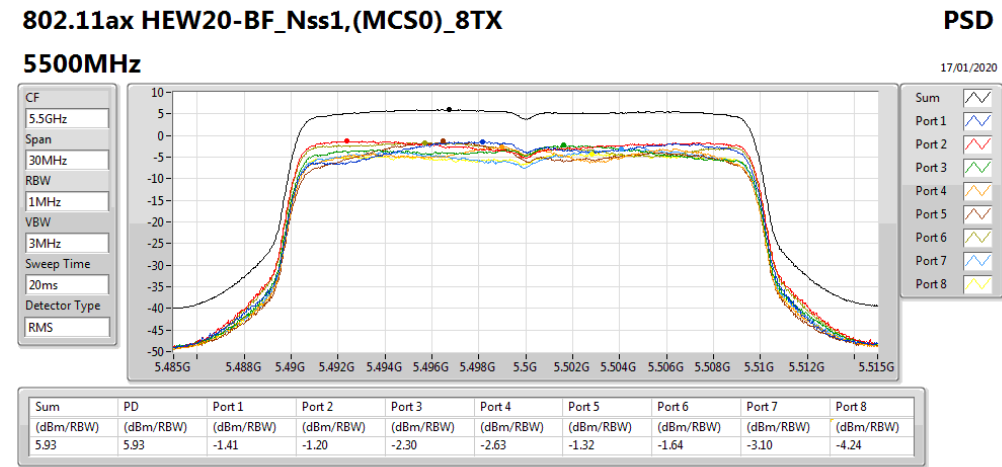
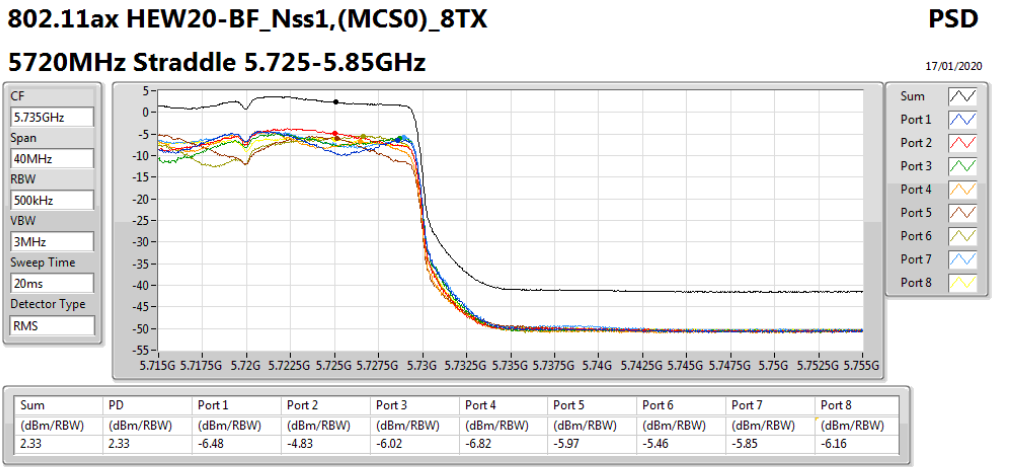
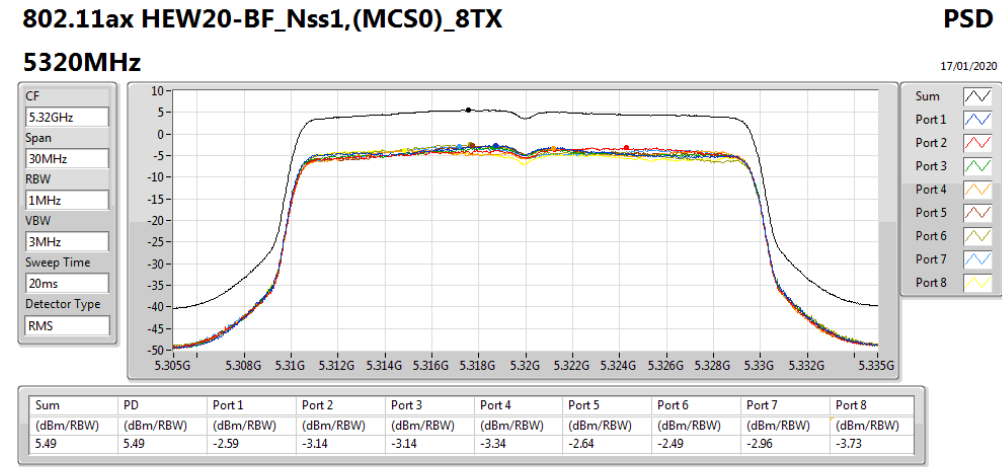
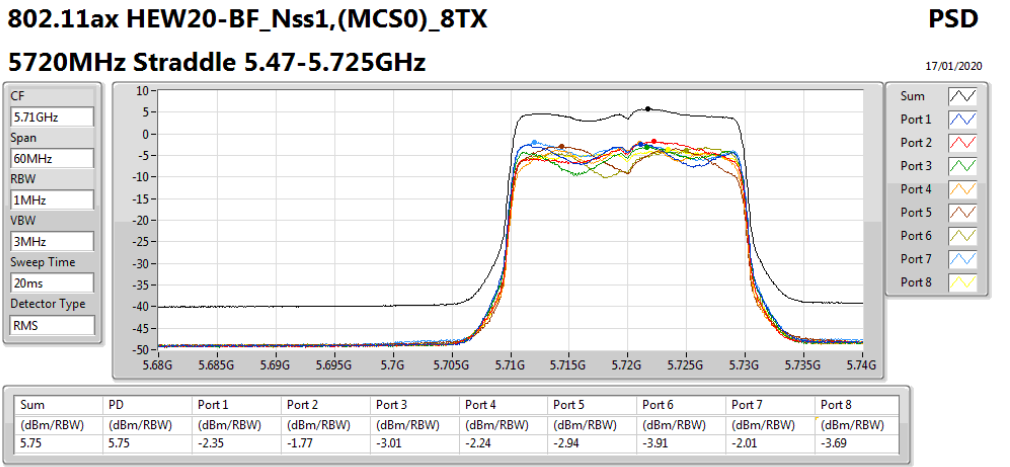
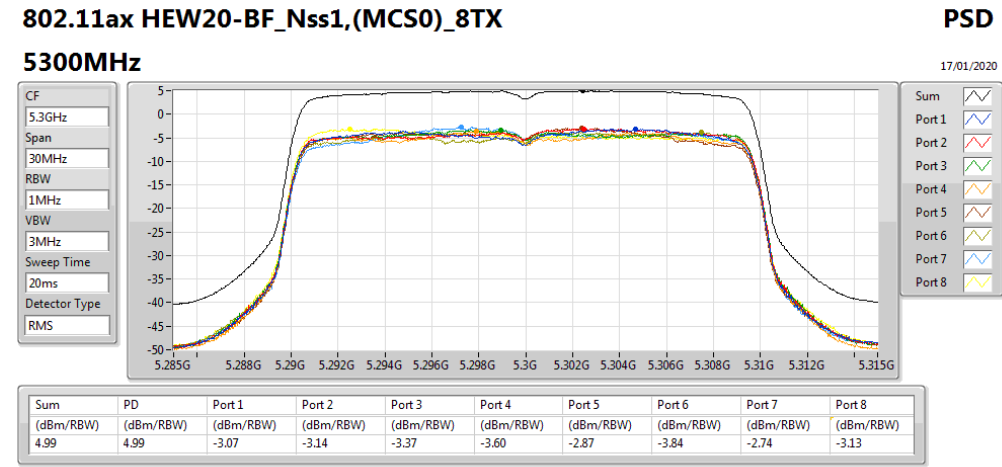
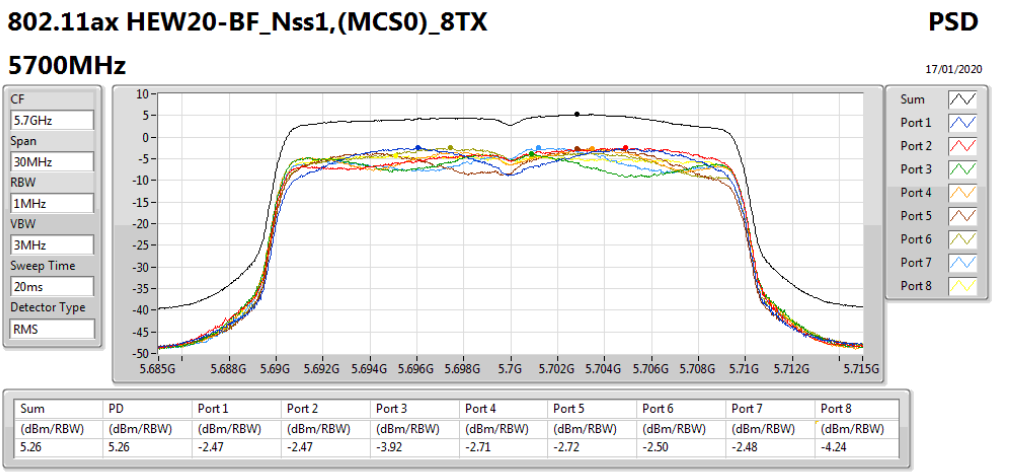
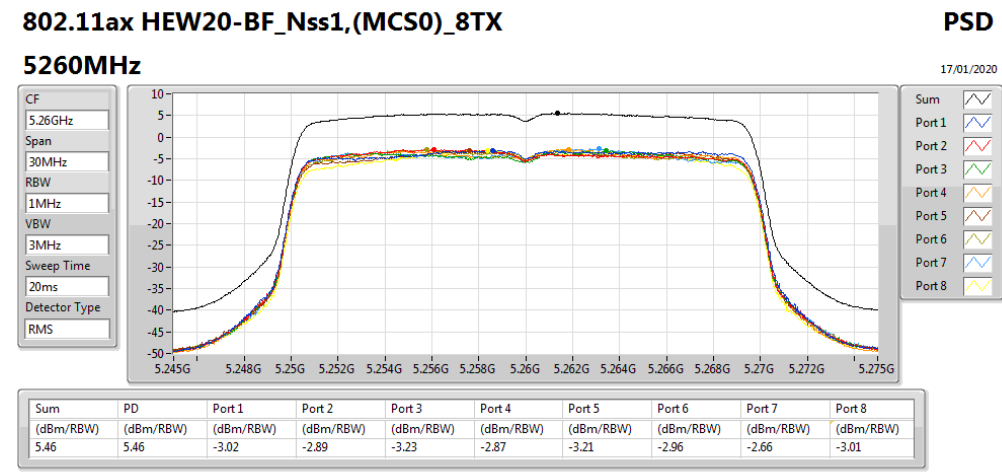
RBW = 500 kHz for 5.725-5.85GHz band / 1MHz for other band;



Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	Port 3 (dBm/RBW)	Port 4 (dBm/RBW)	Port 5 (dBm/RBW)	Port 6 (dBm/RBW)	Port 7 (dBm/RBW)	Port 8 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11ax HEW20-BF_Nss1,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-
5260MHz	Pass	11.47	-3.02	-2.89	-3.23	-2.87	-3.21	-2.96	-2.66	-3.01	5.46	5.53
5300MHz	Pass	11.47	-3.07	-3.14	-3.37	-3.60	-2.87	-3.84	-2.74	-3.13	4.99	5.53
5320MHz	Pass	11.47	-2.59	-3.14	-3.14	-3.34	-2.64	-2.49	-2.96	-3.73	5.49	5.53
5500MHz	Pass	11.00	-1.41	-1.20	-2.30	-2.63	-1.32	-1.64	-3.10	-4.24	5.93	6.00
5580MHz	Pass	11.00	-1.15	-2.25	-2.60	-1.72	-2.26	-2.28	-2.12	-2.92	5.67	6.00
5700MHz	Pass	11.00	-2.47	-2.47	-3.92	-2.71	-2.72	-2.50	-2.48	-4.24	5.26	6.00
5720MHz Straddle 5.47-5.725GHz	Pass	11.00	-2.35	-1.77	-3.01	-2.24	-2.94	-3.91	-2.01	-3.69	5.75	6.00
5720MHz Straddle 5.725-5.85GHz	Pass	11.41	-6.48	-4.83	-6.02	-6.82	-5.97	-5.46	-5.85	-6.16	2.33	24.59
802.11ax HEW40-BF_Nss1,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-
5270MHz	Pass	11.47	-5.85	-6.08	-6.58	-6.04	-6.01	-6.43	-6.00	-6.29	2.14	5.53
5310MHz	Pass	11.47	-6.53	-6.32	-6.76	-6.46	-6.17	-6.32	-5.74	-6.03	1.95	5.53
5510MHz	Pass	11.00	-4.04	-4.77	-4.25	-5.57	-4.09	-4.16	-6.16	-7.29	2.97	6.00
5550MHz	Pass	11.00	-4.14	-5.09	-4.20	-5.20	-4.47	-3.93	-6.07	-6.91	2.92	6.00
5670MHz	Pass	11.00	-3.69	-4.23	-4.54	-4.43	-4.24	-2.61	-5.23	-6.87	3.54	6.00
5710MHz Straddle 5.47-5.725GHz	Pass	11.00	-4.30	-4.84	-5.27	-4.74	-3.76	-2.94	-4.31	-7.00	3.42	6.00
5710MHz Straddle 5.725-5.85GHz	Pass	11.41	-7.60	-8.40	-7.61	-8.32	-7.28	-6.38	-9.06	-9.65	0.53	24.59
802.11ax HEW80-BF_Nss1,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-
5290MHz	Pass	11.47	-8.36	-8.24	-8.25	-8.69	-8.03	-8.17	-7.83	-8.15	-0.04	5.53
5530MHz	Pass	11.00	-6.95	-7.96	-7.35	-7.97	-6.98	-6.64	-8.80	-9.77	0.21	6.00
5610MHz	Pass	11.00	-7.07	-7.33	-7.56	-7.49	-7.31	-6.47	-8.35	-8.97	0.15	6.00
5690MHz Straddle 5.47-5.725GHz	Pass	11.00	-6.82	-7.14	-8.02	-7.17	-7.06	-7.32	-7.10	-9.31	0.38	6.00
5690MHz Straddle 5.725-5.85GHz	Pass	11.41	-11.16	-12.03	-11.31	-11.57	-11.33	-11.51	-12.10	-12.63	-3.27	24.59

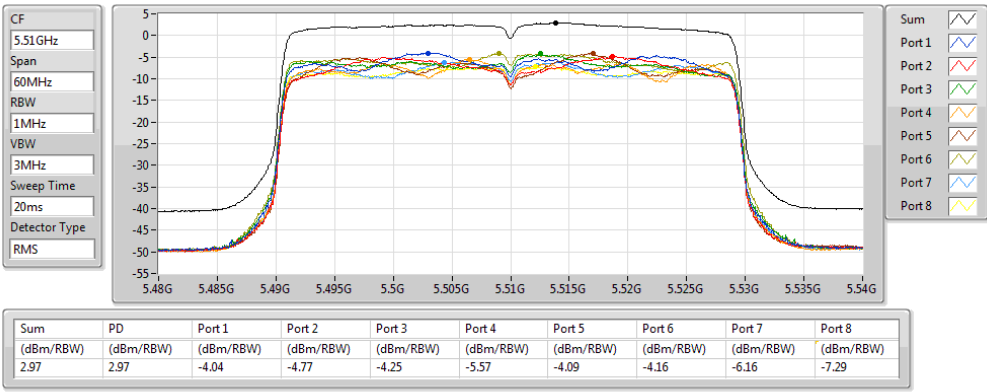
DG = Directional Gain; For UNII-1, UNII-2A and UNII-2C, RBW = 500kHz for 5.725-5.85GHz band / 1MHz for other band;
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; Port X = Port X power density;



802.11ax HEW40-BF_Nss1,(MCS0)_8TX

PSD

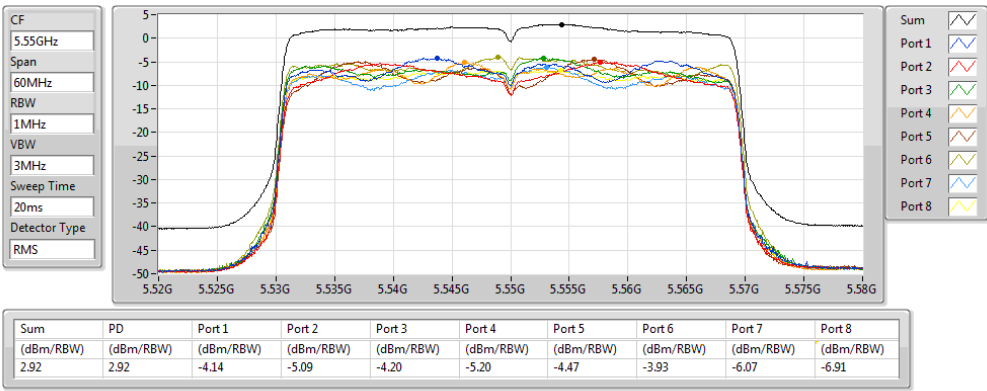
5510MHz



802.11ax HEW40-BF_Nss1,(MCS0)_8TX

PSD

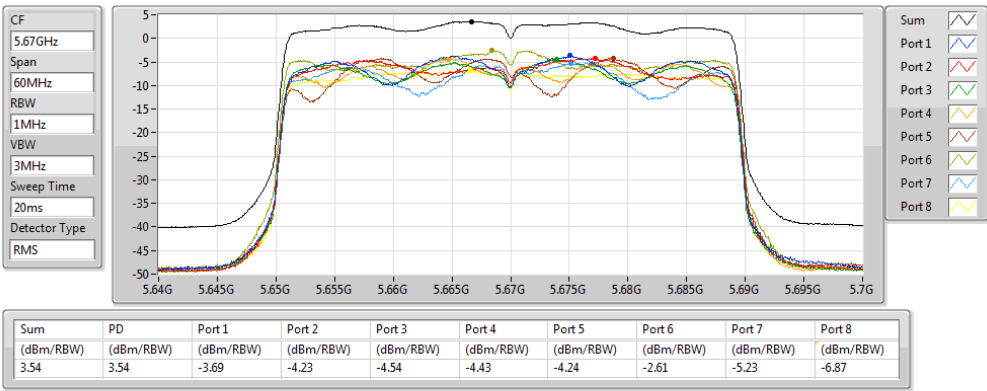
5550MHz



802.11ax HEW40-BF_Nss1,(MCS0)_8TX

PSD

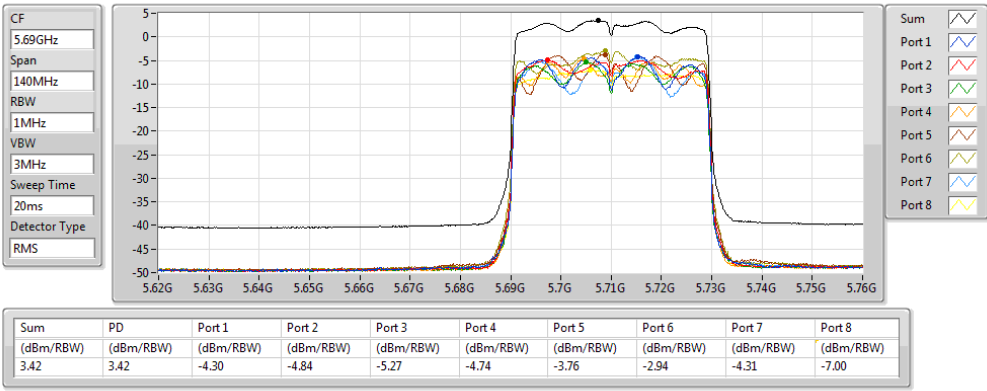
5670MHz



802.11ax HEW40-BF_Nss1,(MCS0)_8TX

PSD

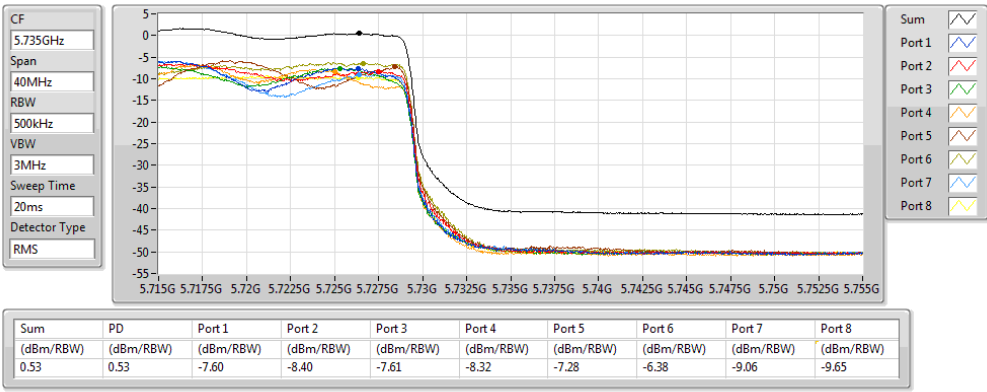
5710MHz Straddle 5.47-5.725GHz



802.11ax HEW40-BF_Nss1,(MCS0)_8TX

PSD

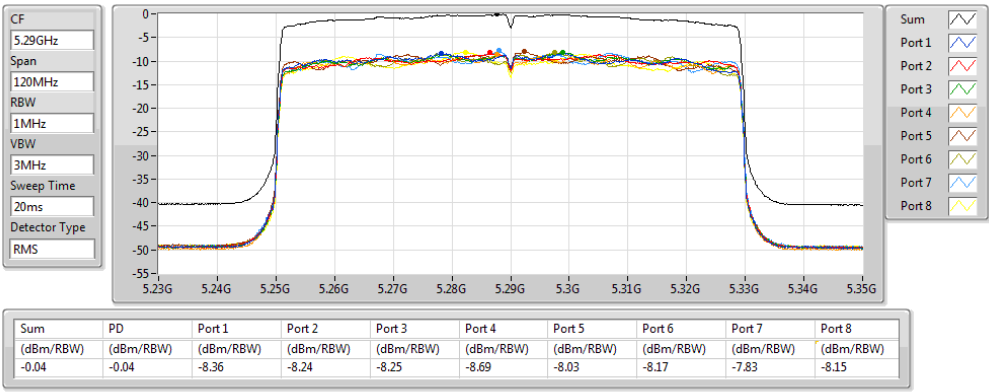
5710MHz Straddle 5.725-5.85GHz



802.11ax HEW80-BF_Nss1,(MCS0)_8TX

PSD

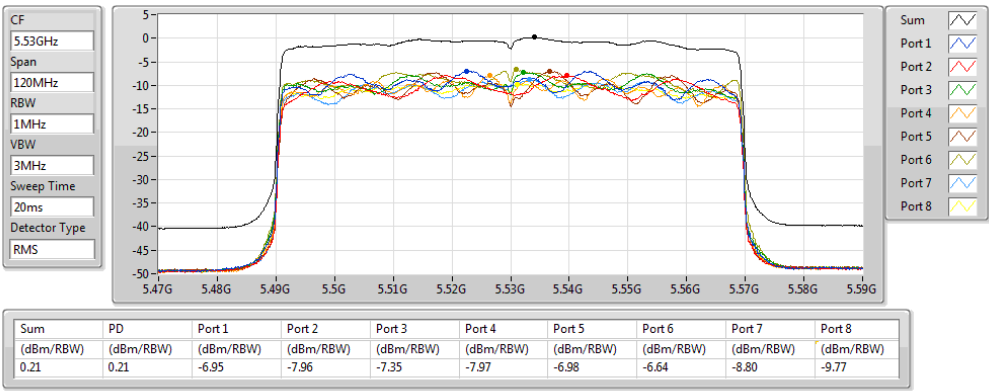
5290MHz



802.11ax HEW80-BF_Nss1,(MCS0)_8TX

PSD

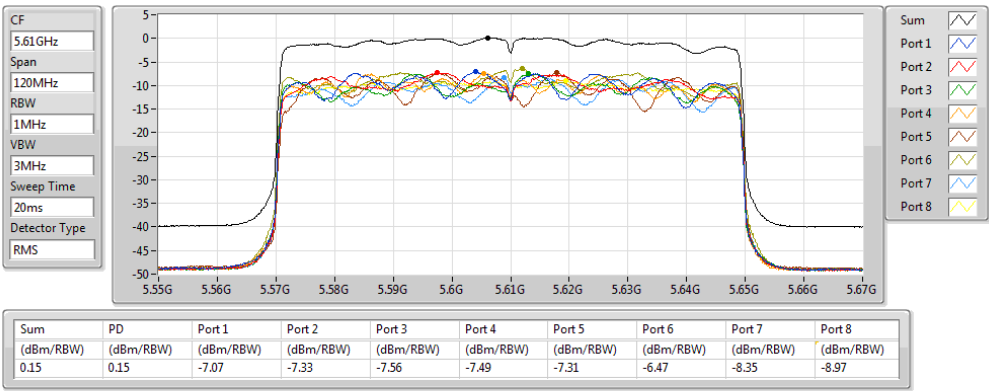
5530MHz



802.11ax HEW80-BF_Nss1,(MCS0)_8TX

PSD

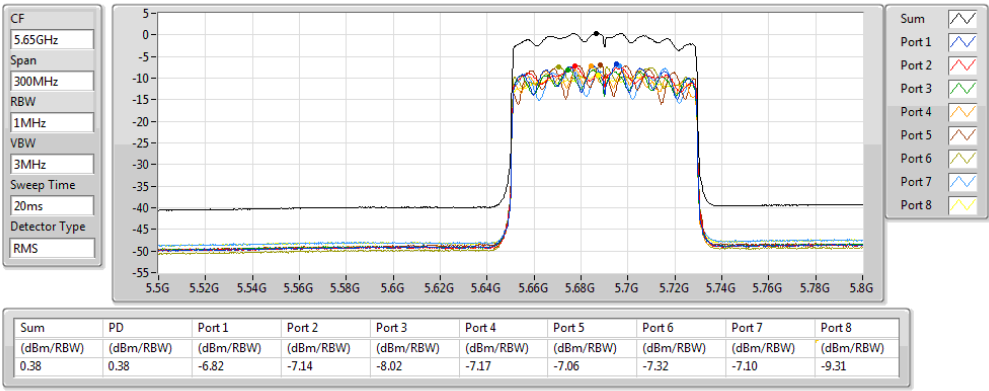
5610MHz



802.11ax HEW80-BF_Nss1,(MCS0)_8TX

PSD

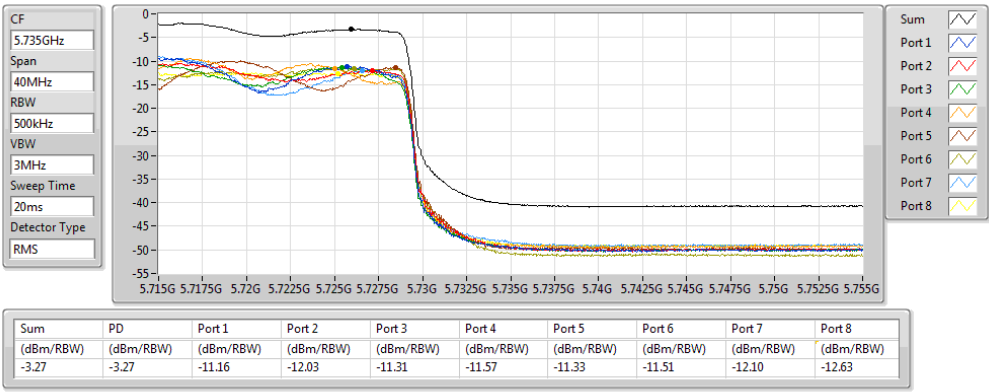
5690MHz Straddle 5.47-5.725GHz



802.11ax HEW80-BF_Nss1,(MCS0)_8TX

PSD

5690MHz Straddle 5.725-5.85GHz





Summary

Mode	PD (dBm/RBW)
5.25-5.35GHz	-
802.11a_Nss1,(6Mbps)_4TX	4.68
802.11ax HEW20_Nss1,(MCS0)_4TX	4.62
802.11ax HEW40_Nss1,(MCS0)_4TX	4.47
802.11ax HEW80_Nss1,(MCS0)_4TX	1.72
5.47-5.725GHz	-
802.11a_Nss1,(6Mbps)_4TX	4.81
802.11ax HEW20_Nss1,(MCS0)_4TX	4.79
802.11ax HEW40_Nss1,(MCS0)_4TX	4.72
802.11ax HEW80_Nss1,(MCS0)_4TX	4.65
5.725-5.85GHz	-
802.11a_Nss1,(6Mbps)_4TX	1.31
802.11ax HEW20_Nss1,(MCS0)_4TX	1.33
802.11ax HEW40_Nss1,(MCS0)_4TX	1.23
802.11ax HEW80_Nss1,(MCS0)_4TX	0.70

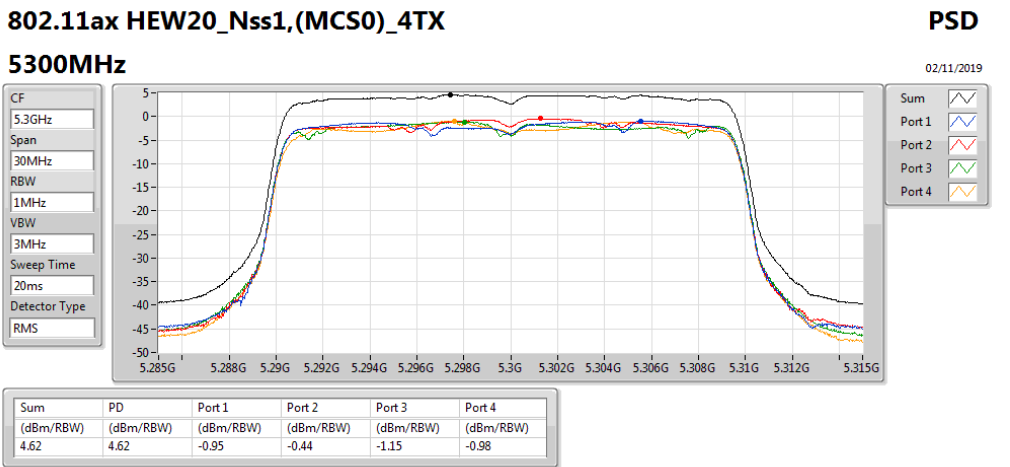
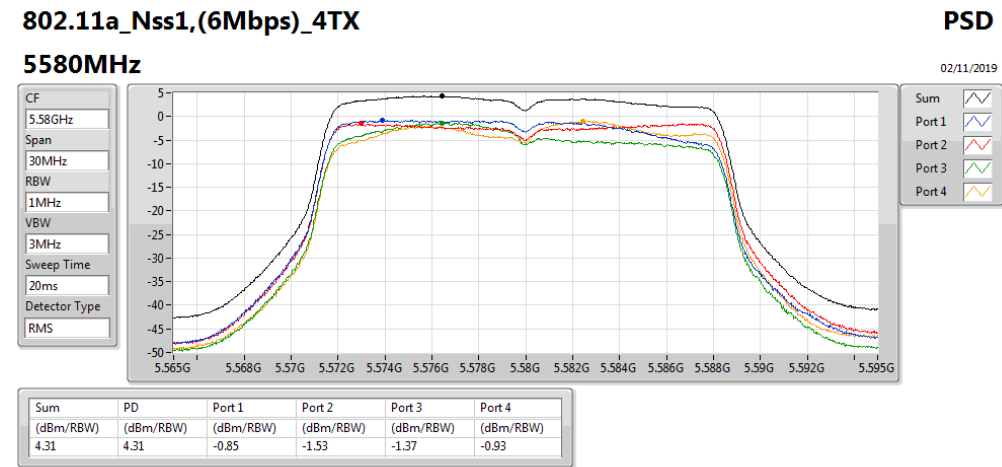
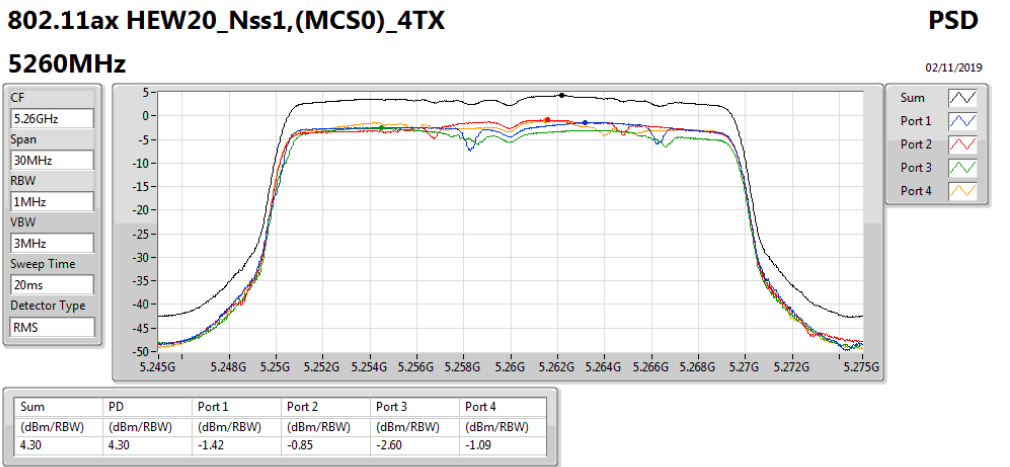
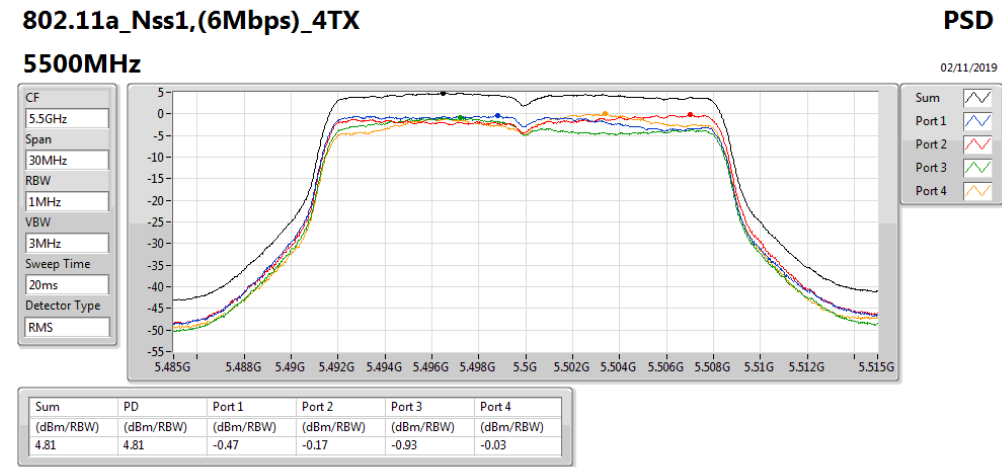
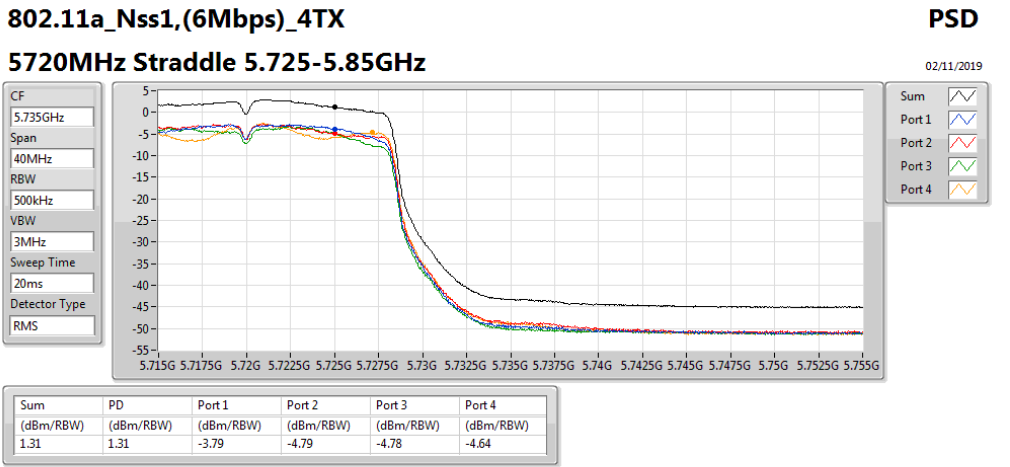
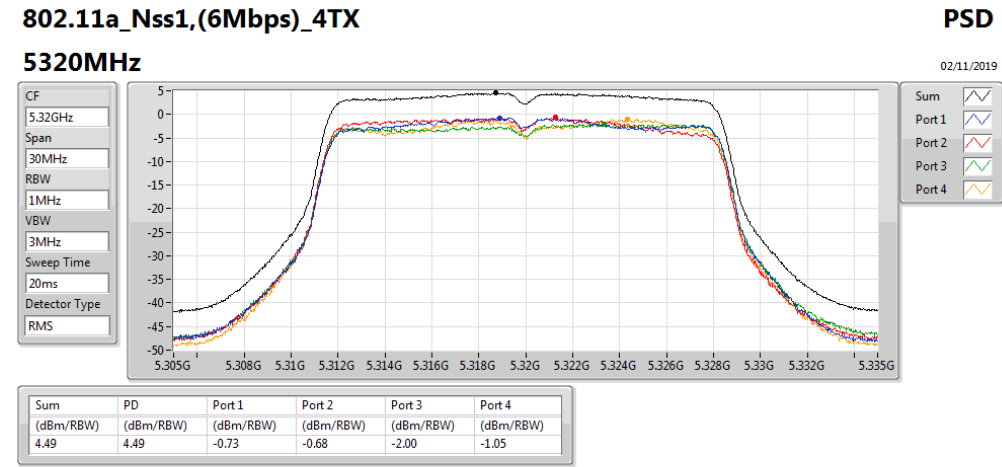
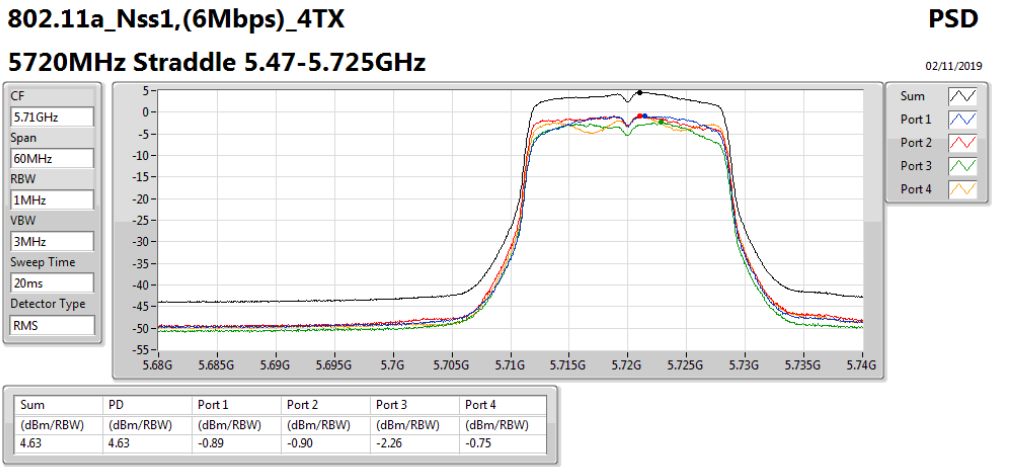
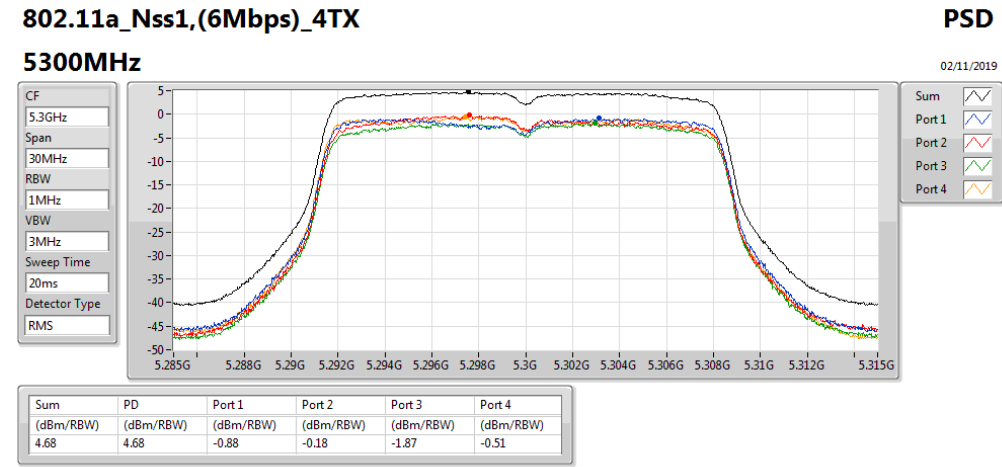
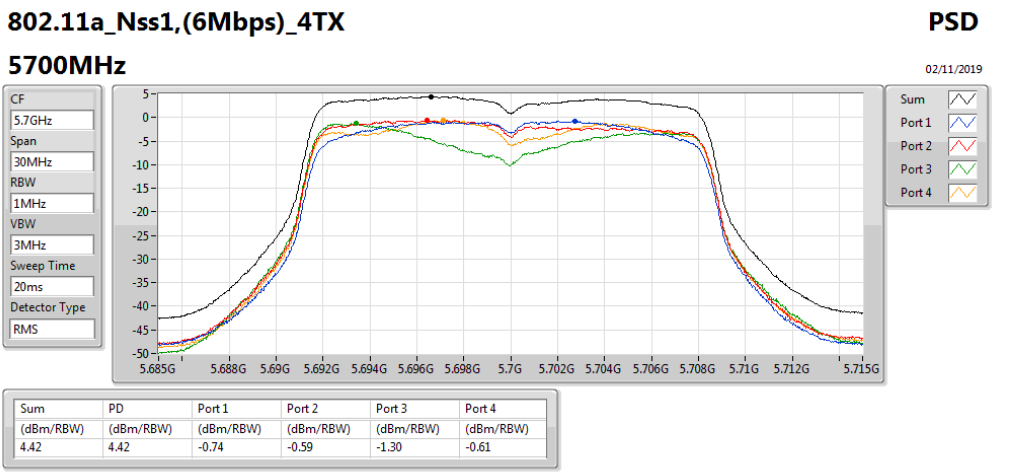
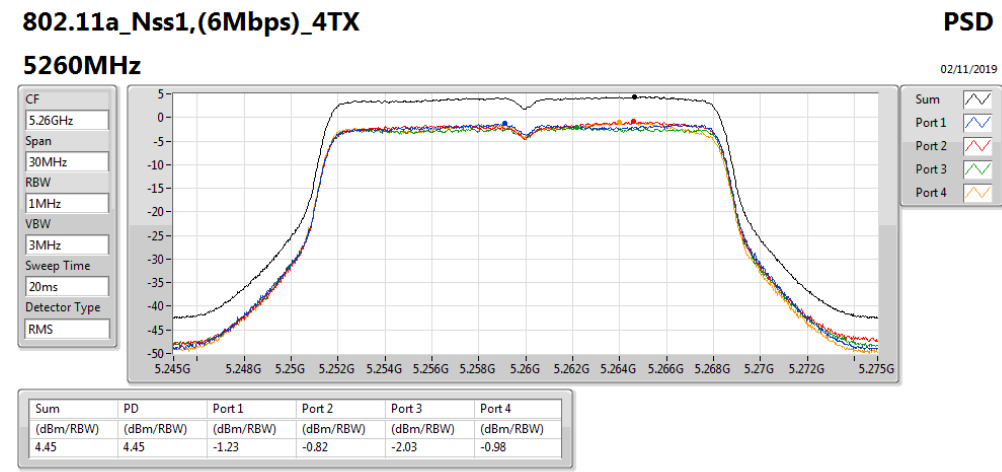
RBW = 500 kHz for 5.725-5.85GHz band / 1MHz for other band;



Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	Port 3 (dBm/RBW)	Port 4 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11a_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-
5260MHz	Pass	12.16	-1.23	-0.82	-2.03	-0.98	4.45	4.84
5300MHz	Pass	12.16	-0.88	-0.18	-1.87	-0.51	4.68	4.84
5320MHz	Pass	12.16	-0.73	-0.68	-2.00	-1.05	4.49	4.84
5500MHz	Pass	12.18	-0.47	-0.17	-0.93	-0.03	4.81	4.82
5580MHz	Pass	12.18	-0.85	-1.53	-1.37	-0.93	4.31	4.82
5700MHz	Pass	12.18	-0.74	-0.59	-1.30	-0.61	4.42	4.82
5720MHz Straddle 5.47-5.725GHz	Pass	12.18	-0.89	-0.90	-2.26	-0.75	4.63	4.82
5720MHz Straddle 5.725-5.85GHz	Pass	12.72	-3.79	-4.79	-4.78	-4.64	1.31	23.28
802.11ax HEW20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5260MHz	Pass	12.16	-1.42	-0.85	-2.60	-1.09	4.30	4.84
5300MHz	Pass	12.16	-0.95	-0.44	-1.15	-0.98	4.62	4.84
5320MHz	Pass	12.16	-1.35	-0.64	-2.12	-0.74	4.31	4.84
5500MHz	Pass	12.18	-0.13	-0.60	-1.59	0.01	4.78	4.82
5580MHz	Pass	12.18	0.32	-0.21	-1.82	-1.61	4.67	4.82
5700MHz	Pass	12.18	-0.53	-0.52	-1.76	-0.43	4.79	4.82
5720MHz Straddle 5.47-5.725GHz	Pass	12.18	0.73	-0.53	-0.54	-1.06	4.77	4.82
5720MHz Straddle 5.725-5.85GHz	Pass	12.72	-3.70	-4.85	-4.07	-3.10	1.33	23.28
802.11ax HEW40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5270MHz	Pass	12.16	-0.85	-0.92	-2.08	-0.34	4.47	4.84
5310MHz	Pass	12.16	-0.86	-1.62	-1.62	-0.77	4.25	4.84
5510MHz	Pass	12.18	-0.76	-0.81	-0.96	-1.29	3.83	4.82
5550MHz	Pass	12.18	0.47	-0.26	-0.12	-0.69	4.68	4.82
5670MHz	Pass	12.18	-0.33	-0.52	-1.27	-0.91	4.44	4.82
5710MHz Straddle 5.47-5.725GHz	Pass	12.18	-0.57	-0.30	-0.63	-0.54	4.72	4.82
5710MHz Straddle 5.725-5.85GHz	Pass	12.72	-3.54	-4.83	-3.66	-4.45	1.23	23.28
802.11ax HEW80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5290MHz	Pass	12.16	-3.33	-3.89	-4.18	-3.49	1.72	4.84
5530MHz	Pass	12.18	-2.76	-2.75	-2.95	-3.50	1.74	4.82
5610MHz	Pass	12.18	-0.31	-0.18	-0.23	-0.77	4.57	4.82
5690MHz Straddle 5.47-5.725GHz	Pass	12.18	-0.16	-0.76	-1.53	-0.78	4.65	4.82
5690MHz Straddle 5.725-5.85GHz	Pass	12.72	-4.66	-5.84	-4.43	-5.39	0.70	23.28

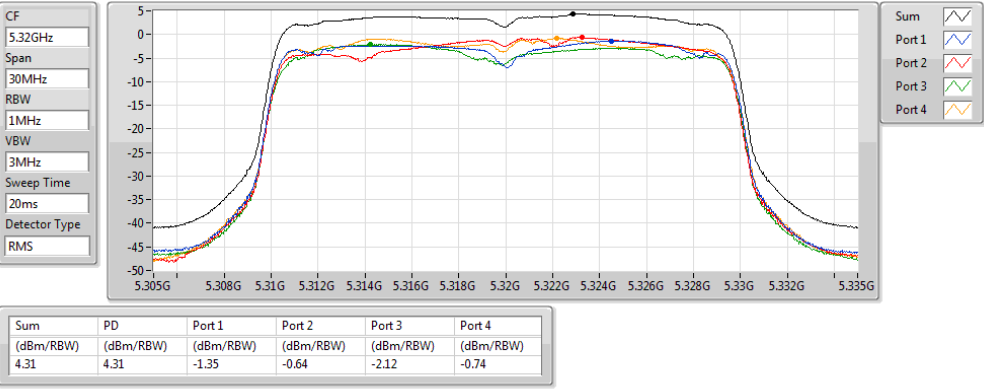
DG = Directional Gain; For UNII-1, UNII-2A and UNII-2C, RBW = 500kHz for 5.725-5.85GHz band / 1MHz for other band;
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; Port X = Port X power density;





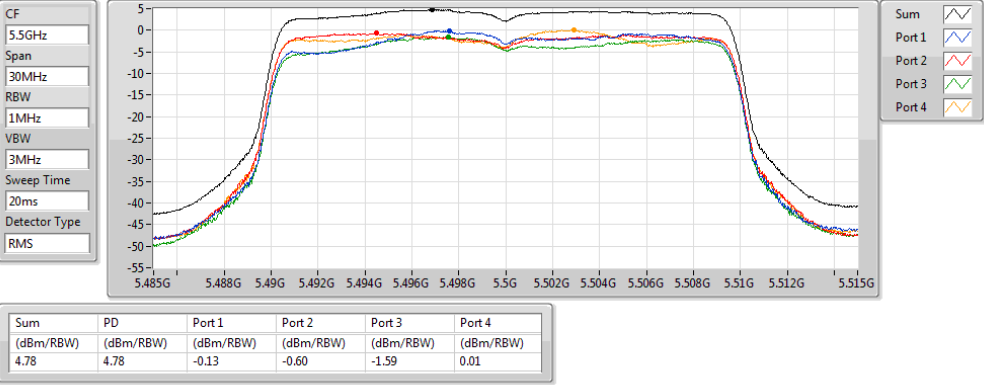
802.11ax HEW20_Nss1,(MCS0)_4TX

5320MHz



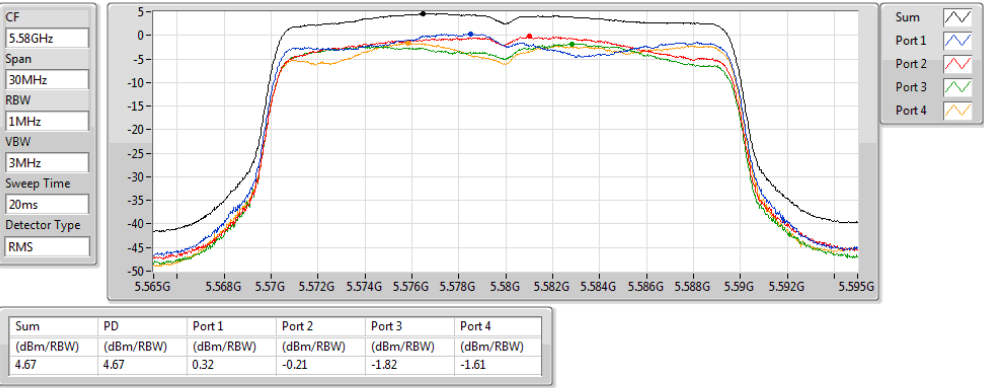
802.11ax HEW20_Nss1,(MCS0)_4TX

5500MHz



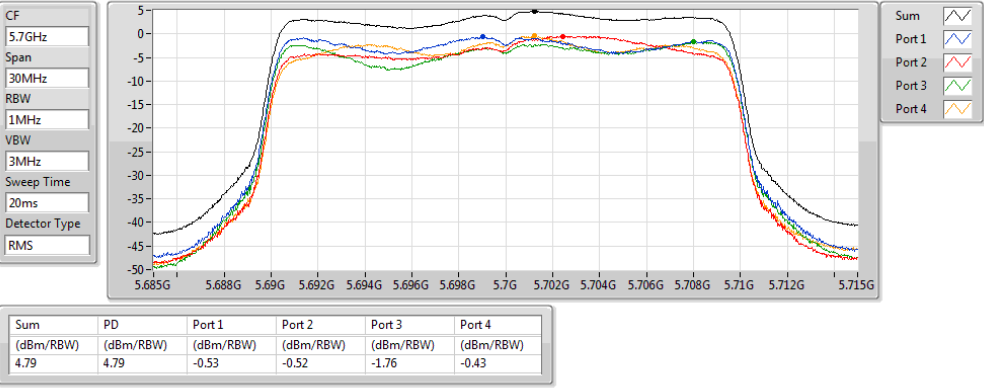
802.11ax HEW20_Nss1,(MCS0)_4TX

5580MHz



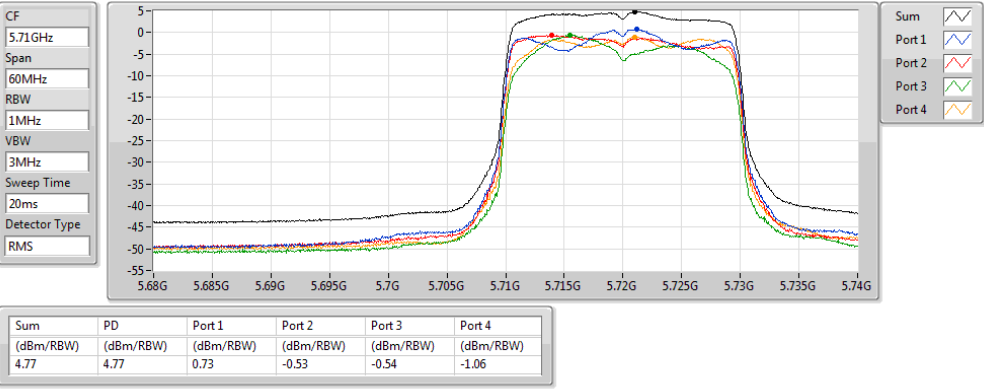
802.11ax HEW20_Nss1,(MCS0)_4TX

5700MHz



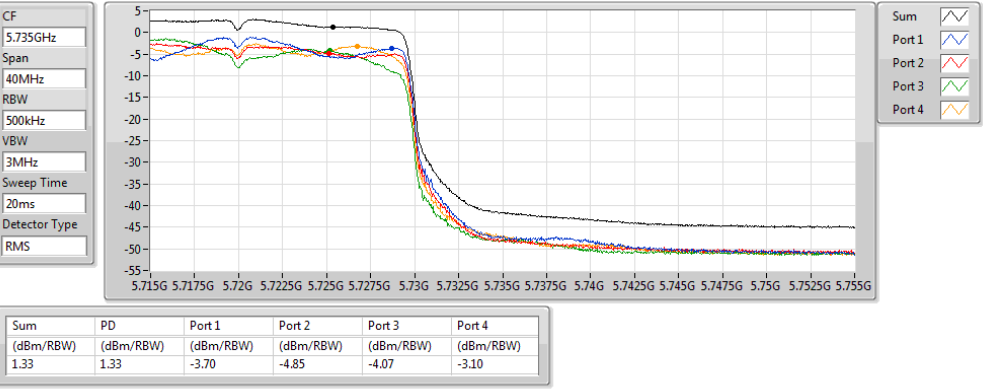
802.11ax HEW20_Nss1,(MCS0)_4TX

5720MHz Straddle 5.47-5.725GHz



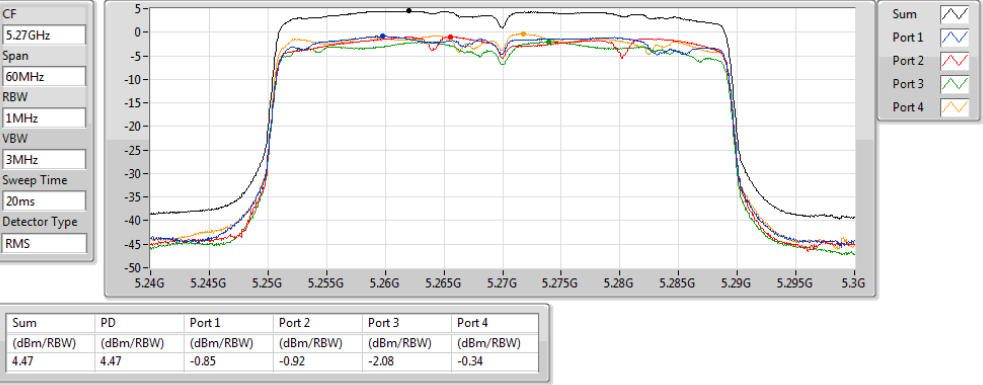
802.11ax HEW20_Nss1,(MCS0)_4TX

5720MHz Straddle 5.725-5.85GHz



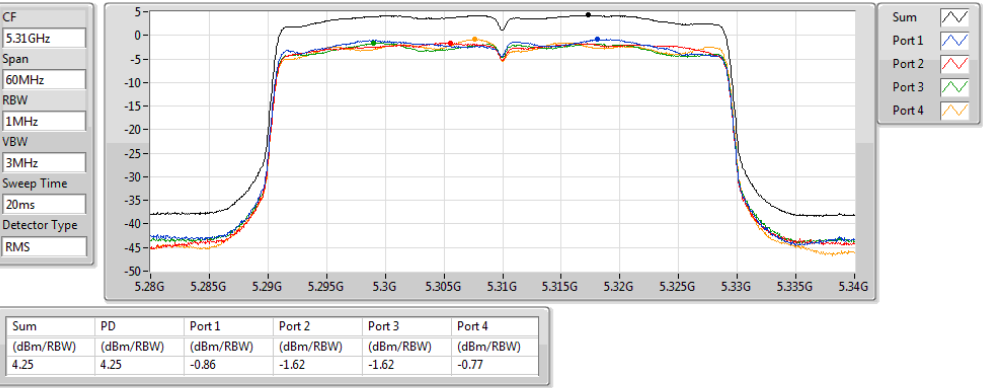
802.11ax HEW40_Nss1,(MCS0)_4TX

5270MHz



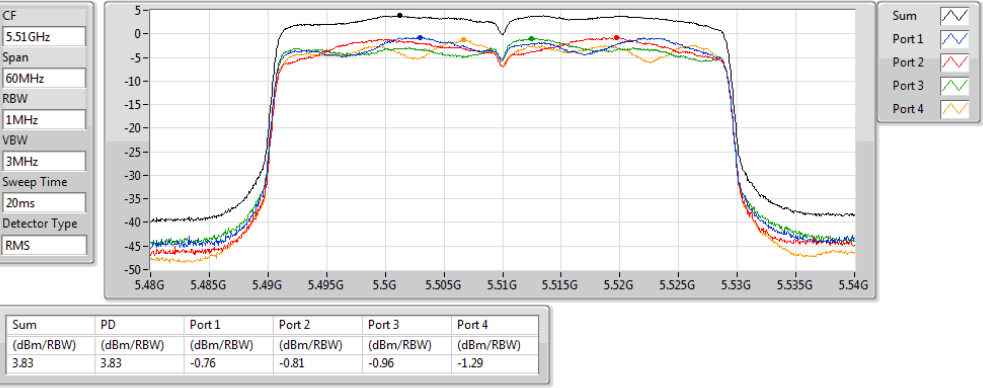
802.11ax HEW40_Nss1,(MCS0)_4TX

5310MHz



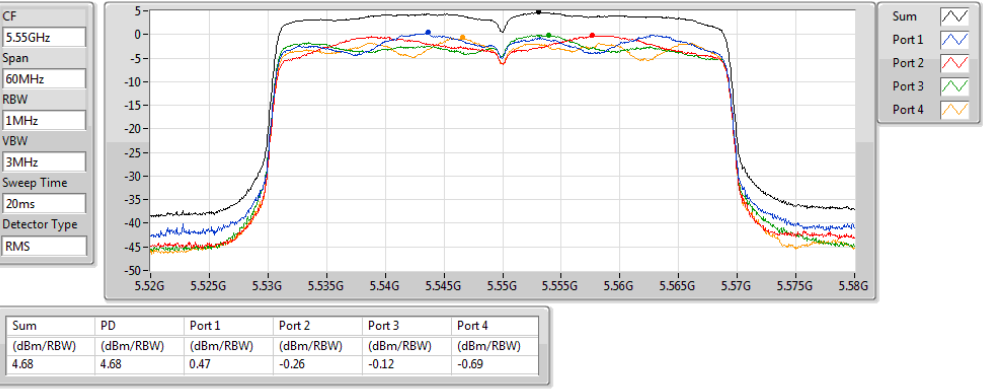
802.11ax HEW40_Nss1,(MCS0)_4TX

5510MHz



802.11ax HEW40_Nss1,(MCS0)_4TX

5550MHz

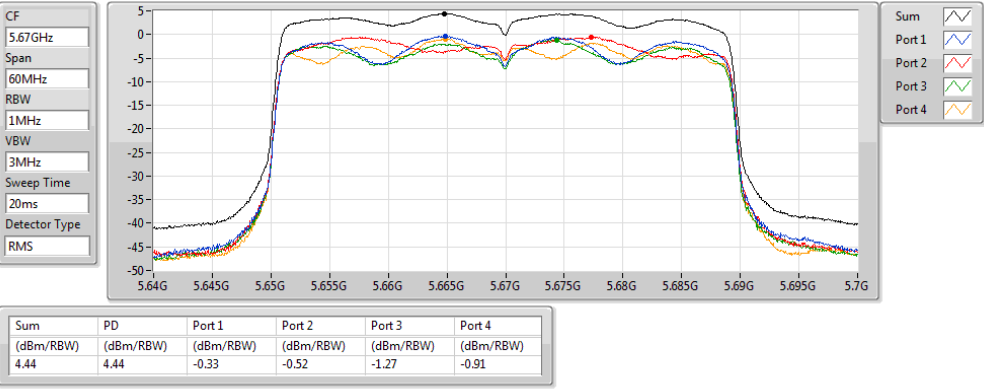




802.11ax HEW40_Nss1,(MCS0)_4TX

PSD

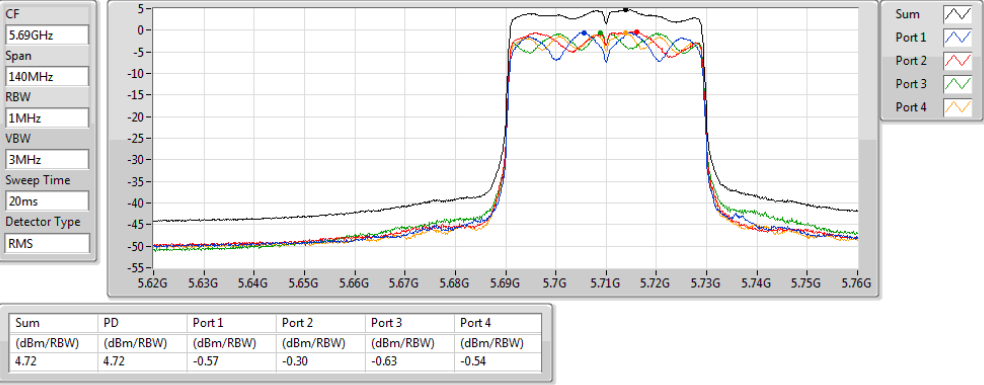
5670MHz



802.11ax HEW40_Nss1,(MCS0)_4TX

PSD

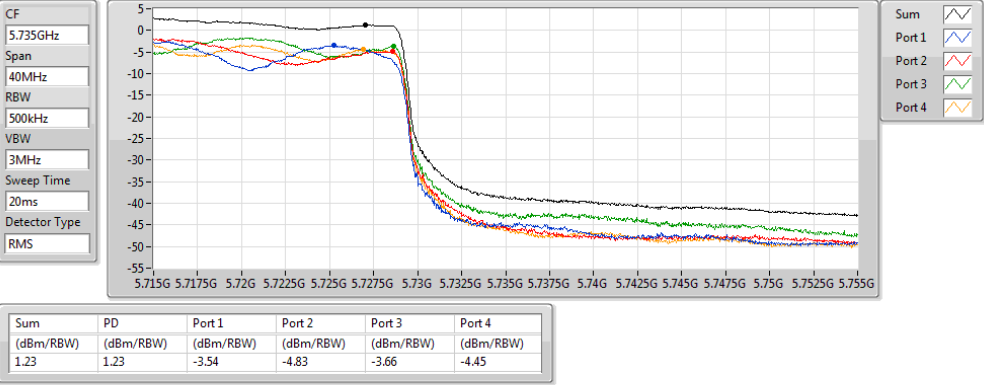
5710MHz Straddle 5.47-5.725GHz



802.11ax HEW40_Nss1,(MCS0)_4TX

PSD

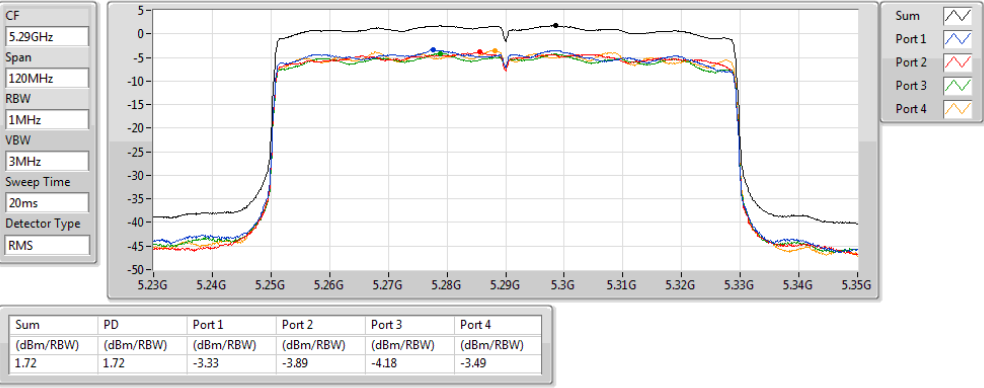
5710MHz Straddle 5.725-5.85GHz



802.11ax HEW80_Nss1,(MCS0)_4TX

PSD

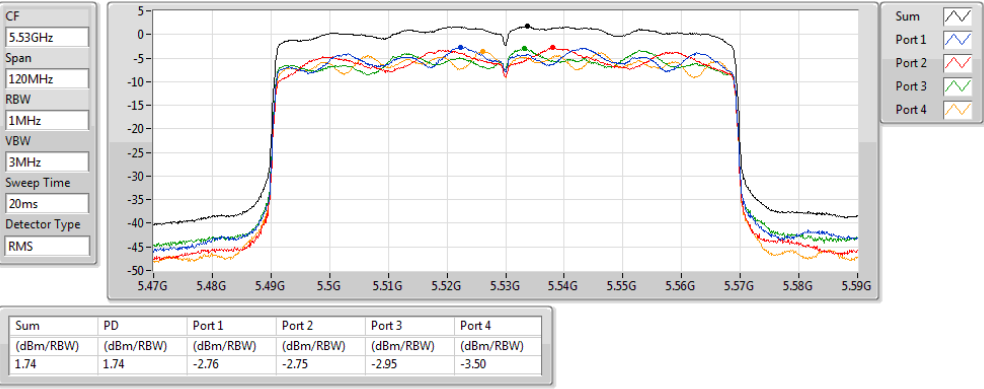
5290MHz



802.11ax HEW80_Nss1,(MCS0)_4TX

PSD

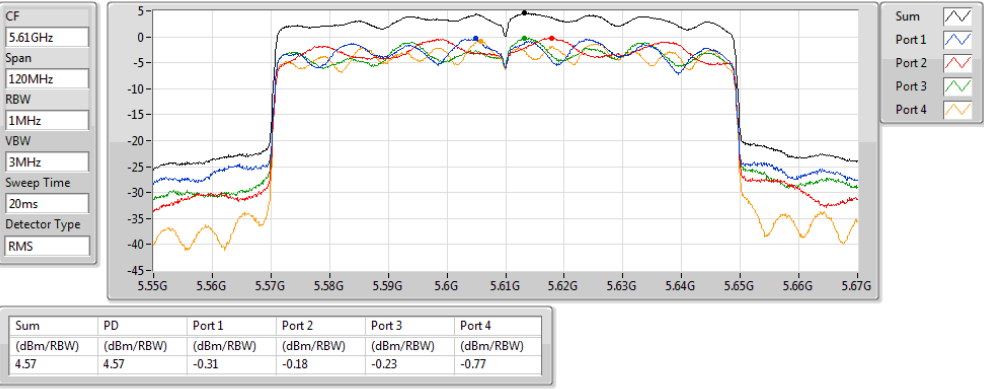
5530MHz



802.11ax HEW80_Nss1,(MCS0)_4TX

PSD

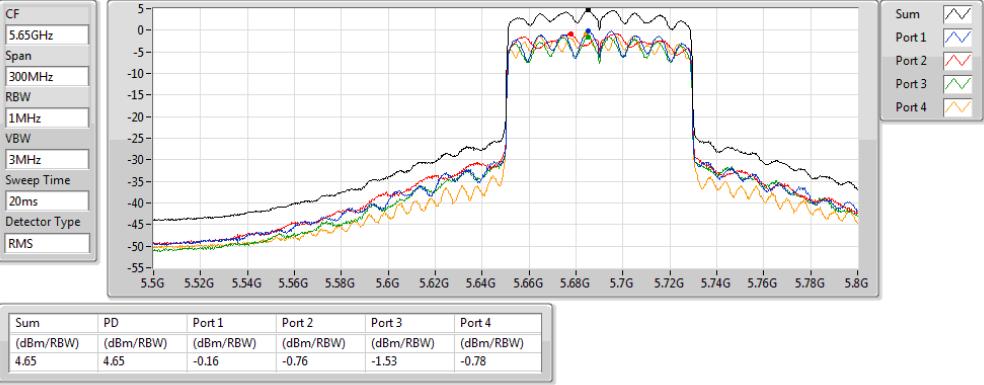
5610MHz



802.11ax HEW80_Nss1,(MCS0)_4TX

PSD

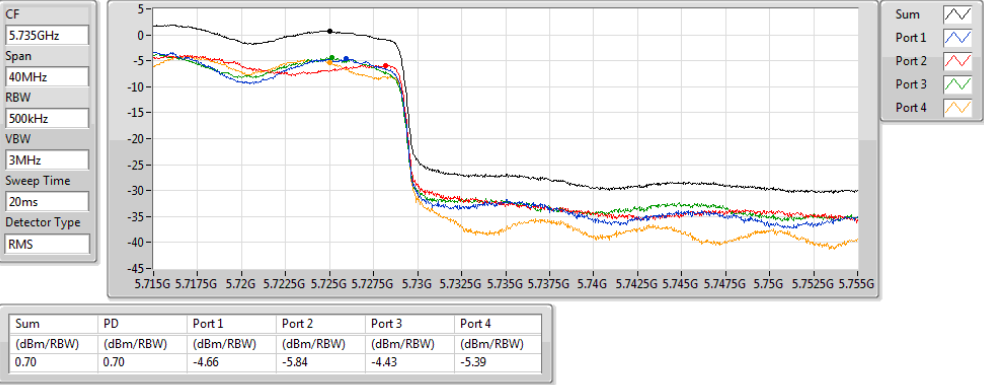
5690MHz Straddle 5.47-5.725GHz



802.11ax HEW80_Nss1,(MCS0)_4TX

PSD

5690MHz Straddle 5.725-5.85GHz





Summary

Mode	PD (dBm/RBW)
5.25-5.35GHz	-
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	7.48
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	4.60
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	1.28
5.47-5.725GHz	-
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	7.97
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	6.07
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	2.92
5.725-5.85GHz	-
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	4.75
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	2.91
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	-1.23

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



Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	Port 3 (dBm/RBW)	Port 4 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5260MHz	Pass	8.66	2.10	1.83	1.41	1.53	7.35	8.34
5300MHz	Pass	8.66	1.22	1.89	0.88	2.13	7.48	8.34
5320MHz	Pass	8.66	0.51	1.22	0.47	0.99	6.23	8.34
5500MHz	Pass	8.93	3.08	2.29	1.34	2.99	7.68	8.07
5580MHz	Pass	8.93	1.68	2.76	2.74	3.15	7.12	8.07
5700MHz	Pass	8.93	1.96	0.98	1.94	1.44	7.27	8.07
5720MHz Straddle 5.47-5.725GHz	Pass	8.93	1.65	3.27	3.47	3.62	7.97	8.07
5720MHz Straddle 5.725-5.85GHz	Pass	8.79	-1.08	-1.95	-1.06	-0.17	4.75	27.21
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5270MHz	Pass	8.66	-0.79	-0.54	-1.09	-0.99	4.60	8.34
5310MHz	Pass	8.66	-2.21	-1.78	-1.54	-2.10	3.57	8.34
5510MHz	Pass	8.93	-1.76	-1.02	-1.90	-0.88	3.33	8.07
5550MHz	Pass	8.93	-0.71	0.36	-0.55	-0.10	4.64	8.07
5670MHz	Pass	8.93	-1.12	-1.26	-1.06	-1.04	4.10	8.07
5710MHz Straddle 5.47-5.725GHz	Pass	8.93	0.23	0.56	0.59	0.61	6.07	8.07
5710MHz Straddle 5.725-5.85GHz	Pass	8.79	-3.00	-2.13	-3.03	-2.58	2.91	27.21
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5290MHz	Pass	8.66	-4.70	-4.50	-4.20	-4.20	1.28	8.34
5530MHz	Pass	8.93	-4.60	-4.00	-4.46	-4.05	0.18	8.07
5610MHz	Pass	8.93	-3.80	-3.14	-3.12	-3.37	1.34	8.07
5690MHz Straddle 5.47-5.725GHz	Pass	8.93	-2.28	-2.77	-2.24	-2.26	2.92	8.07
5690MHz Straddle 5.725-5.85GHz	Pass	8.79	-7.54	-6.32	-7.42	-6.57	-1.23	27.21

DG = Directional Gain; For UNII-1, UNII-2A and UNII-2C, **RBW** = 500kHz for 5.725-5.85GHz band / 1MHz for other band;
 PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; **Port X** = Port X power density;