



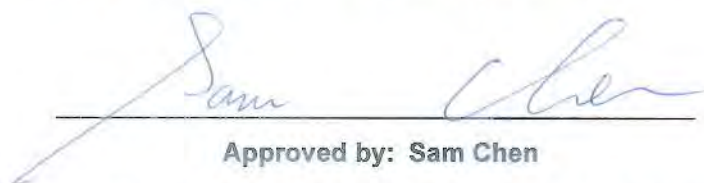
FCC RADIO TEST REPORT

FCC ID : L9VVR3071
Equipment : Home Gateway
Brand Name : COMTREND
Model Name : VR-3071 、 VR-3071u 、 WAP-5954u 、 PRT-6301
Applicant / Manufacturer : COMTREND Corporation
3F-1, 10 Lane 609, Chung Hsin Road, Section 5, San Chung Dist, New Taipei City 24159, Taiwan
Factory (1) : Datamax Electronics (Dong Guan) Co., Ltd.
Niu shan Foreign Economic Industrial park, Dong Cheng District, Dong Guan City, Guang Dong , China.
Factory (2) : GIAN TA CO., LTD
No.130,Sec2,Yangxin Rd.,Yang Mei Dist,Taoyuan City326,Taiwan
Factory (3) : Intelligent Technology Inc.
Yuanhe Three Street , Tongsha Industrial Zone , Dongcheng Area, Dongguan City , Guangdong Province , China.
Standard : 47 CFR FCC Part 15.407

The product was received on Aug. 28, 2019, and testing was started from Aug. 28, 2019 and completed on Nov. 12, 2019. We, SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown compliance with the applicable technical standards.

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

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


Approved by: Sam Chen

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	-

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:

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: Viola Huang

1 General Description

1.1 Information

1.1.1 RF General Information

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

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
5.25-5.35GHz	802.11ax HEW160	160	4TX
5.25-5.35GHz	802.11ax HEW160-BF	160	4TX
5.47-5.725GHz	802.11a	20	4TX

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

Note:

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

1.1.2 Antenna Information

Ant.	2.4GHz port	5GHz port	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	2	1	MASTER WAVE	502219-345	Copper Tube Antenna	I-PEX	Note 1
2	1	2	MASTER WAVE	502219-344	Copper Tube Antenna	I-PEX	
3	-	3	MASTER WAVE	502219-342	PCB Antenna	I-PEX	
4	-	4	MASTER WAVE	502219-343	PCB Antenna	I-PEX	

Note 1:

Ant.	Antenna Gain (dBi)				
	2.4GHz	5GHz Band 1	5GHz Band 2	5GHz Band 3	5GHz Band 4
1	4.04	5.00	4.98	4.16	3.23
2	3.64	3.67	4.17	3.70	2.89
3	-	1.94	2.21	2.99	3.14
4	-	2.96	2.69	3.00	3.90

Ant.	Direction Gain (dBi)				
	2.4GHz	5GHz Band 1	5GHz Band 2	5GHz Band 3	5GHz Band 4
	2T1S	4T1S	4T1S	4T1S	4T1S
1	3.94	7.48	7.69	7.02	6.21
2	3.94	7.48	7.69	7.02	6.21
3	3.94	7.48	7.69	7.02	6.21
4	3.94	7.48	7.69	7.02	6.21

Note 2: The above information was declared by manufacturer.

For 2.4GHz WLAN function

IEEE 802.11b/g/n/VHT/ax mode (2TX/2RX):

Port 1 and port 2 can be used as transmitting/receiving antenna.

Port 1 and port 2 could transmit/receive simultaneously.

For 5GHz WLAN function

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

Port 1, port 2, port 3 and port 4 can be used as transmitting/receiving antenna.

Port 1, port 2, port 3 and port 4 could transmit/receive simultaneously.

**1.1.3 Mode Test Duty Cycle**

Mode	DC	DCF(dB)	T(s)	VBW(Hz) ≥ 1/T
802.11a	0.953	0.21	2.068m	1k
802.11ac VHT20	0.986	0.06	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11ac VHT20-BF	0.983	0.07	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11ac VHT40	0.971	0.13	953.125u	3k
802.11ac VHT40-BF	0.971	0.13	952.5u	3k
802.11ac VHT80	0.94	0.27	461.25u	3k
802.11ac VHT80-BF	0.927	0.33	413.75u	3k
802.11ax HEW20	0.981	0.08	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11ax HEW20-BF	0.929	0.32	2.99m	1k
802.11ax HEW40	0.964	0.16	782.5u	3k
802.11ax HEW40-BF	0.941	0.26	4.36m	300
802.11ax HEW80	0.933	0.3	417.5u	3k
802.11ax HEW80-BF	0.954	0.2	4.143m	300
802.11ax HEW160	0.894	0.49	240u	10k
802.11ax HEW160-BF	0.965	0.15	5.163m	300

Note:

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

1.1.4 EUT Operational Condition

EUT Power Type	From Power Adapter			
Beamforming Function	☒	With beamforming	☐	Without beamforming
	For IEEE 802.11 n/VHT/ax in 2.4GHz and 11n/ac/ax in 5GHz			
Weather Band	☒	With 5600~5650MHz	☐	Without 5600~5650MHz
Function	☐	Outdoor P2M	☒	Indoor P2M
	☐	Fixed P2P	☐	Client
TPC Function	☒	With TPC	☐	Without TPC
Test Software Version	Non beamforming mode: Mtool_v3.1.0.2 Beamforming mode: Telnet			

Note: The above information was declared by manufacturer.



1.1.5 Table for Multiple Listing

The model names in the following table are all refer to the identical product except for the following table:

EUT	Model Name	Main Chip	DSL	Description
1	VR-3071	BCM63178	V	In addition to these differences, there are no other differences, mainly used as a market partition.
2	VR-3071u	BCM63178	V	
3	WAP-5954u	BCM63178	X	
4		BCM63177		
5	PRT-6301	BCM63178	X	
6		BCM63177		

From the above models, model: VR-3071 was selected as representative model for the test and its data was recorded in this report.

1.1.6 Table for Class II Change

This product is an extension of original one reported under Sporton project number: FR980825AB

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

Modifications	Performance Checking
1. Adding Band 2 and Band 3 (5250~5350 MHz, 5470~5725 MHz). 2. Adding 160MHz.	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
- ♦ FCC KDB 662911 D01 v02r01
- ♦ FCC KDB 412172 D01 v01r01

1.3 Testing Location Information

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

Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date
RF Conducted	TH01-CB	Lance Wu	23.8~25.5°C / 62~66%	Aug. 28, 2019 ~ Nov. 12, 2019
Radiated above 1GHz	03CH03-CB	Eason Chen	25.4~26.1°C / 57~62%	Sep. 10, 2019 ~ Sep. 18, 2019

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

Mode	PowerSetting
802.11a_Nss1,(6Mbps)_4TX	-
5260MHz	69
5300MHz	70
5320MHz	70
5500MHz	70
5580MHz	70
5700MHz	75
5720MHz Straddle 5.47-5.725GHz	75
5720MHz Straddle 5.725-5.85GHz	75
802.11ac VHT20_Nss1,(MCS0)_4TX	-
5260MHz	69
5300MHz	69
5320MHz	69
5500MHz	67
5580MHz	68
5700MHz	70
5720MHz Straddle 5.47-5.725GHz	72
5720MHz Straddle 5.725-5.85GHz	72
802.11ac VHT40_Nss1,(MCS0)_4TX	-
5270MHz	74
5310MHz	73
5510MHz	69
5550MHz	70
5670MHz	74
5710MHz Straddle 5.47-5.725GHz	75
5710MHz Straddle 5.725-5.85GHz	75
802.11ac VHT80_Nss1,(MCS0)_4TX	-
5290MHz	73
5530MHz	69
5610MHz	74
5690MHz Straddle 5.47-5.725GHz	74
5690MHz Straddle 5.725-5.85GHz	74
802.11ax HEW20_Nss1,(MCS0)_4TX	-
5260MHz	68
5300MHz	68
5320MHz	68



Mode	PowerSetting
5500MHz	67
5580MHz	67
5700MHz	70
5720MHz Straddle 5.47-5.725GHz	72
5720MHz Straddle 5.725-5.85GHz	72
802.11ax HEW40_Nss1,(MCS0)_4TX	-
5270MHz	73
5310MHz	73
5510MHz	69
5550MHz	69
5670MHz	74
5710MHz Straddle 5.47-5.725GHz	76
5710MHz Straddle 5.725-5.85GHz	76
802.11ax HEW80_Nss1,(MCS0)_4TX	-
5290MHz	72
5530MHz	69
5610MHz	73
5690MHz Straddle 5.47-5.725GHz	74
5690MHz Straddle 5.725-5.85GHz	74
802.11ax HEW160_Nss1,(MCS0)_4TX	-
5250MHz Straddle 5.15-5.25GHz	76
5250MHz Straddle 5.25-5.35GHz	76
5570MHz	66



Mode	PowerSetting
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	-
5260MHz	70
5300MHz	69
5320MHz	69
5500MHz	67
5580MHz	67
5700MHz	69
5720MHz Straddle 5.47-5.725GHz	68
5720MHz Straddle 5.725-5.85GHz	68
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	-
5260MHz	68
5300MHz	68
5320MHz	68
5500MHz	65
5580MHz	65
5700MHz	68
5720MHz Straddle 5.47-5.725GHz	66
5720MHz Straddle 5.725-5.85GHz	66
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	-
5270MHz	70
5310MHz	70
5510MHz	66
5550MHz	66
5670MHz	67
5710MHz Straddle 5.47-5.725GHz	68
5710MHz Straddle 5.725-5.85GHz	68
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	-
5270MHz	68
5310MHz	69
5510MHz	65
5550MHz	65
5670MHz	67
5710MHz Straddle 5.47-5.725GHz	67
5710MHz Straddle 5.725-5.85GHz	67
802.11ac VHT80-BF_Nss1,(MCS0)_4TX	-
5290MHz	69
5530MHz	66
5610MHz	67
5690MHz Straddle 5.47-5.725GHz	67



Mode	PowerSetting
5690MHz Straddle 5.725-5.85GHz	67
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	-
5290MHz	69
5530MHz	66
5610MHz	66
5690MHz Straddle 5.47-5.725GHz	66
5690MHz Straddle 5.725-5.85GHz	66
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	-
5250MHz Straddle 5.15-5.25GHz	76
5250MHz Straddle 5.25-5.35GHz	76
5570MHz	66

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/VHT/ax in 2.4GHz and 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

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 Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis - Co-location RF Exposure Evaluation
Operating Mode	
1	WLAN 2.4GHz + WLAN 5GHz
Refer to Sporton Test Report No.: FA980825-01 for Co-location RF Exposure Evaluation.	

Note: The EUT can only use Y axis position.

2.3 EUT Operation during Test

For CTX Mode:

non-beamforming mode:

The EUT was programmed to be in continuously transmitting mode.

beamforming mode:

For Conducted Mode:

The EUT was programmed to be in continuously transmitting mode.

For Radiated Mode:

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

The program was executed as follows:

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



2.4 Accessories

Accessories			
Equipment Name	Brand Name	Model Name	Rating
Adapter 1	AMIGO	AMS241-1203000FU	Input: 100-240V, 50/60Hz, 1.2A Output: 12V, 3.0A
Adapter 2	AMIGO	AMS200-1202000FU	Input: 100-240V, 50/60Hz, 0.8A Max Output: 12V, 2.0A

Note: The power adapter does not affect the test result of RF tests, so only adapter 1 was tested and recorded in this report.

2.5 Support Equipment

For Radiated:
(For non-beamforming mode)

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

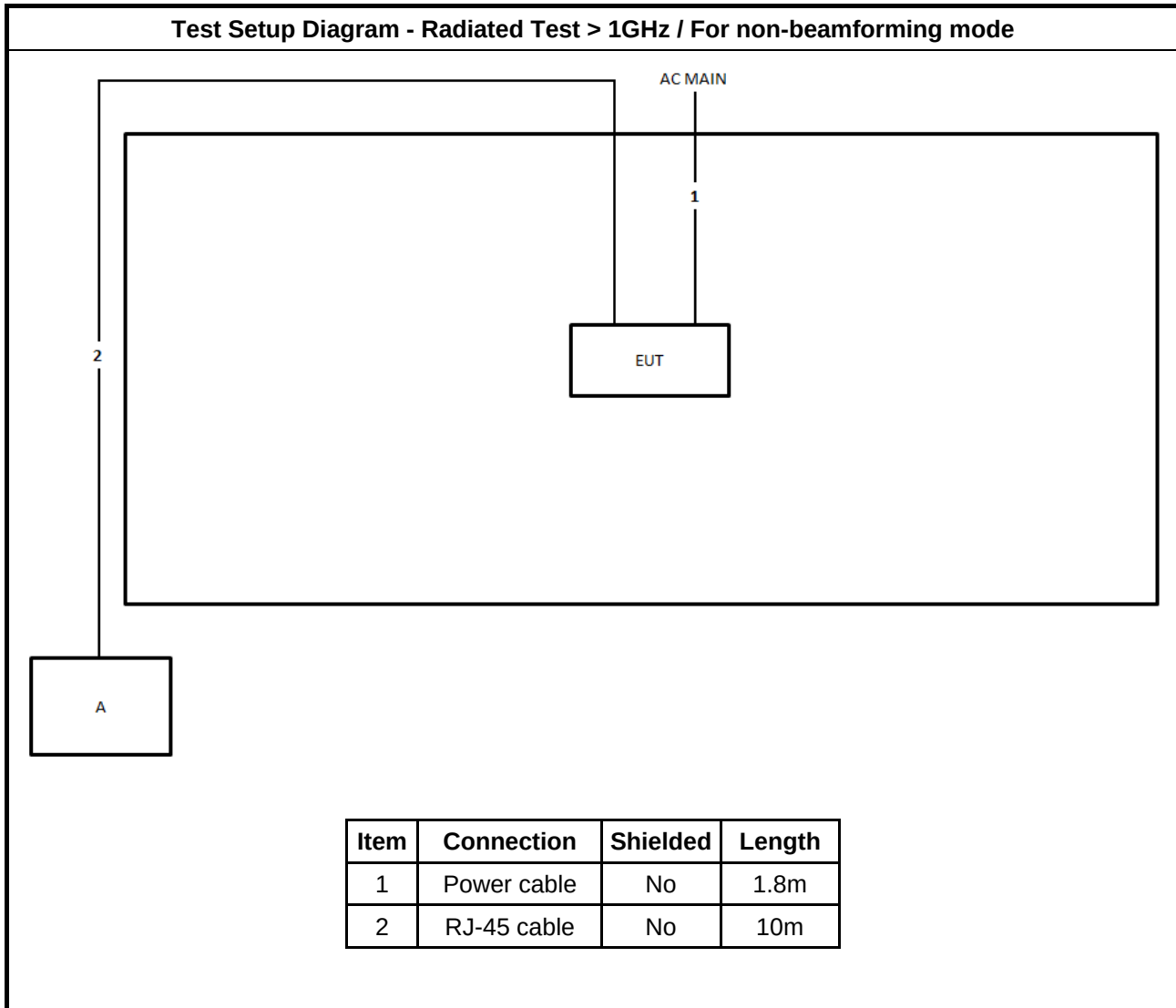
(For beamforming mode)

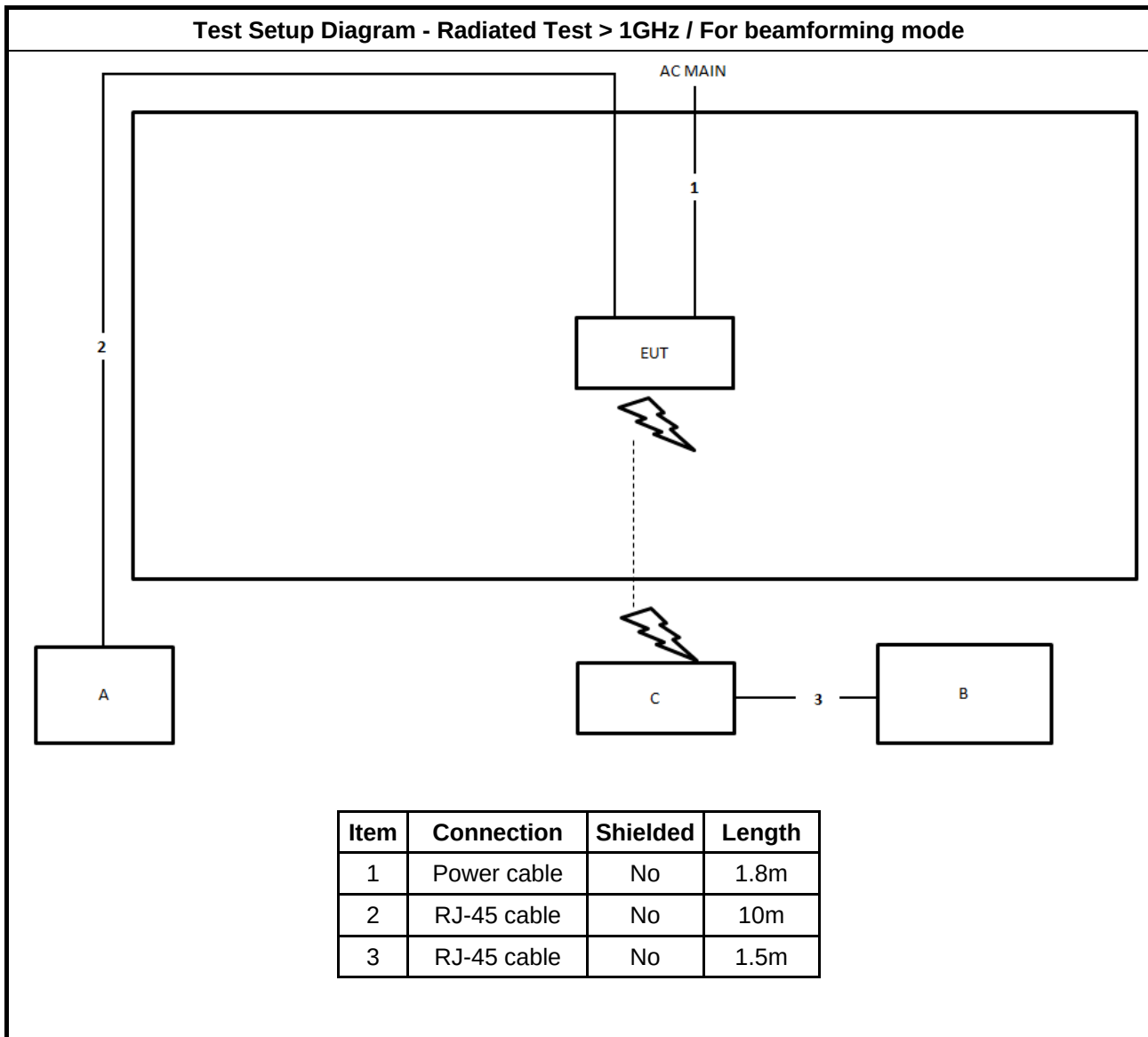
Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	Notebook	DELL	E4300	N/A
B	Notebook	DELL	E4300	N/A
C	RX Device	ASUS	RT-AX88U	MSQ-RTAXHP00

For RF Conducted:

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

2.6 Test Setup Diagram



Test Setup Diagram - Radiated Test > 1GHz / For beamforming mode


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.

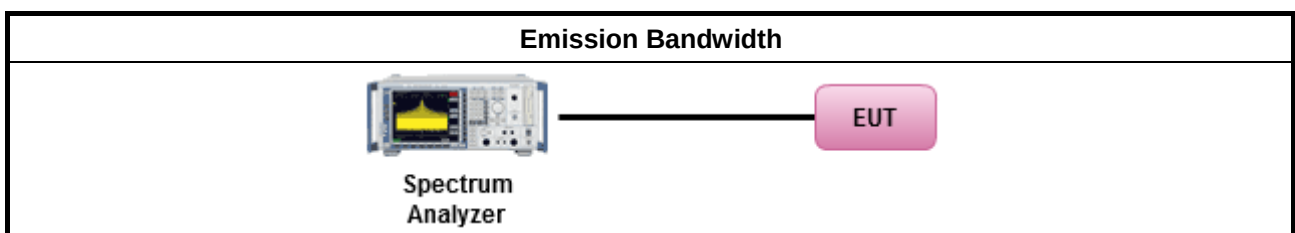
3.1.2 Measuring Instruments

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

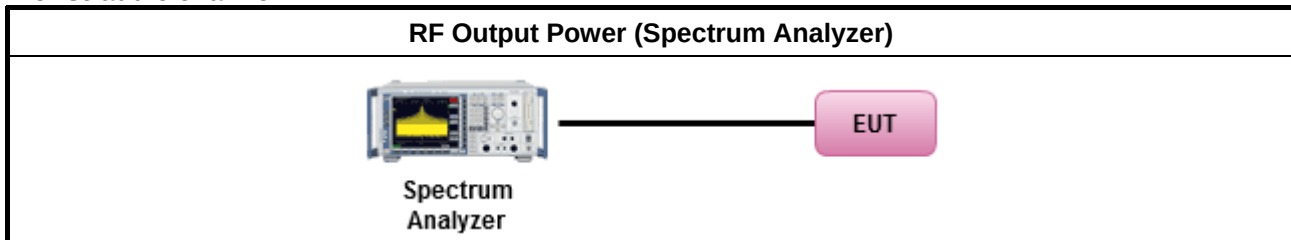
Refer a test equipment and calibration data table in this test report.

3.2.3 Test Procedures

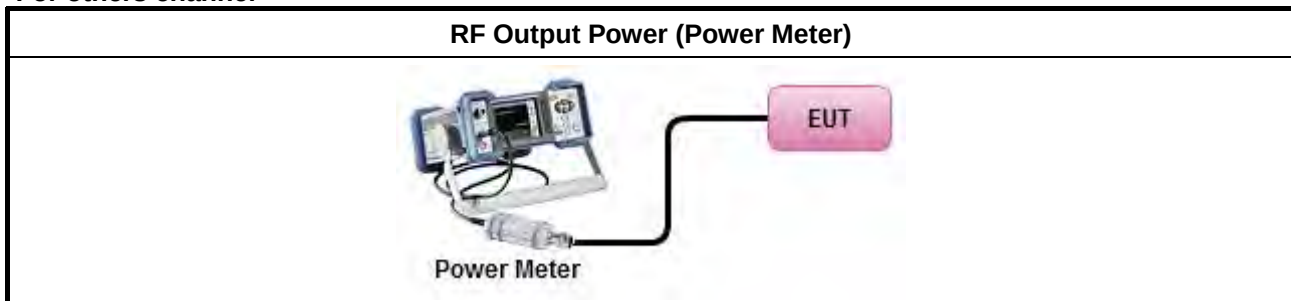
Test Method	
Maximum Conducted Output Power	
	Average over on/off periods with duty factor
☒	Refer as FCC KDB 789033, clause E Method SA-2 (spectral trace averaging).
☐	Refer as FCC KDB 789033, clause E Method SA-2 Alt. (RMS detection with slow sweep speed)
	Wideband RF power meter and average over on/off 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



For others channel



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 $8^\circ \leq \theta < 40^\circ$ $-35.9 - 1.22(\theta - 40)$ 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 the same method as used to determine the conducted output power shall be used to determine the power spectral density. And power spectral density in dBm/MHz G_{TX} = the maximum transmitting antenna directional gain in dBi.	

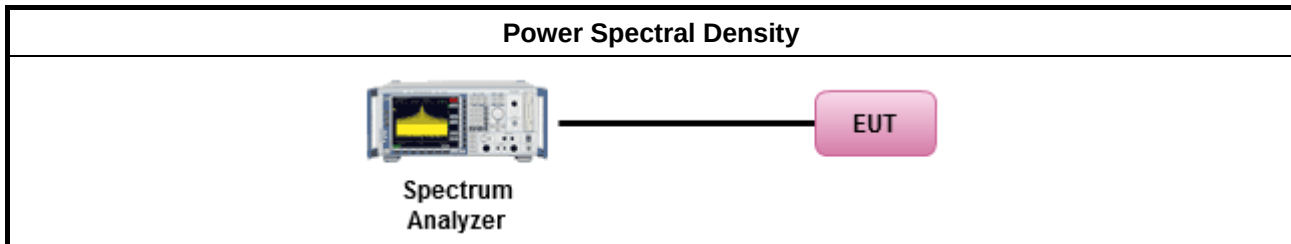
3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

Test Method	
Peak power spectral density procedures that the same method as used to determine the conducted output power shall be used to determine the peak power spectral density and use the peak search function on the spectrum analyzer to find the peak of the spectrum. For the peak power spectral density shall be measured using below options:	
☐ Refer as FCC KDB 789033, F5) 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).

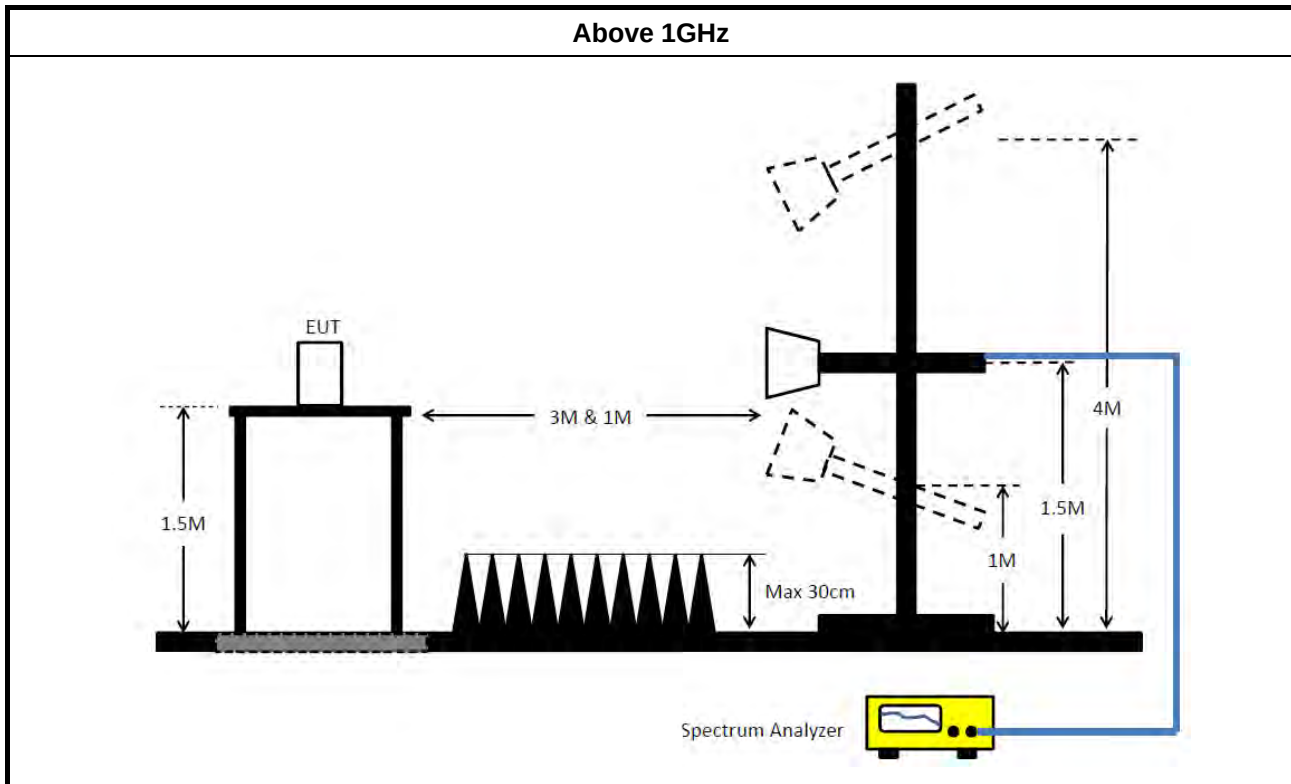
3.4.2 Measuring Instruments

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 + Cable Loss + Read Level - Preamp Factor = Level.

3.4.6 Transmitter Unwanted Emissions (Below 30MHz)

There is a comparison data of both open-field test site and alternative test site - semi-Anechoic chamber according to KDB414788 Radiated Test Site, and the result came out very similar.

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

The radiated emissions were investigated from 9 kHz or the lowest frequency generated within the device, up to the 10 harmonic or 40 GHz, whichever is appropriate.

3.4.7 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	ETS • Lindgren	3115	6821	750MHz~18GHz	Jan. 24, 2019	Jan. 23, 2020	Radiation (03CH03-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Jun. 27, 2019	Jun. 26, 2020	Radiation (03CH03-CB)
Pre-Amplifier	Agilent	8449B	3008A02097	1GHz ~ 26.5GHz	Dec. 20, 2018	Dec. 19, 2019	Radiation (03CH03-CB)
Pre-Amplifier	MITEQ	TTA1840-35-H G	1864479	18GHz ~ 40GHz	Jul. 03, 2019	Jul. 02, 2020	Radiation (03CH03-CB)
Spectrum Analyzer	R&S	FSP40	100019	9kHz ~ 40GHz	Jun. 19, 2019	Jun. 18, 2020	Radiation (03CH03-CB)
RF Cable-high	Woken	RG402	High Cable-20+27	1GHz ~ 18GHz	Oct. 08, 2018	Oct. 07, 2019	Radiation (03CH03-CB)
RF Cable-high	Woken	RG402	High Cable-27	1GHz ~ 18GHz	Oct. 08, 2018	Oct. 07, 2019	Radiation (03CH03-CB)
RF Cable-high	Woken	RG402	High Cable-40G#1	18GHz ~ 40 GHz	Jul. 24, 2019	Jul. 23, 2020	Radiation (03CH03-CB)
RF Cable-high	Woken	RG402	High Cable-40G#2	18GHz ~ 40 GHz	Jul. 24, 2019	Jul. 23, 2020	Radiation (03CH03-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. 08, 2018	Oct. 07, 2019	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. 08, 2018	Oct. 07, 2019	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. 08, 2018	Oct. 07, 2019	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. 08, 2018	Oct. 07, 2019	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)



Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
RF Cable-high	Woken	RG402	High Cable-10	1 GHz –26.5 GHz	Oct. 08, 2018	Oct. 07, 2019	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-10	1 GHz –26.5 GHz	Oct. 07, 2019	Oct. 06, 2020	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-28	1 GHz –26.5 GHz	Nov. 19, 2018	Nov. 18, 2019	Conducted (TH01-CB)
Power Sensor	Agilent	E9327A	US40442088	50MHz~18GHz	Jan. 15, 2019	Jan. 14, 2020	Conducted (TH01-CB)
Power Meter	Agilent	E4416A	GB41291199	50MHz~18GHz	Jan. 15, 2019	Jan. 14, 2020	Conducted (TH01-CB)

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

Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.15-5.25GHz	-	-	-	-	-
802.11ax HEW160_Nss1,(MCS0)_4TX	81.2M	77.321M	77M3D1D	80.16M	76.922M
5.25-5.35GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	21.775M	16.617M	16M6D1D	21.325M	16.527M
802.11ac VHT20_Nss1,(MCS0)_4TX	21.85M	17.791M	17M8D1D	21.425M	17.716M
802.11ac VHT40_Nss1,(MCS0)_4TX	40.25M	36.382M	36M4D1D	39.8M	36.182M
802.11ac VHT80_Nss1,(MCS0)_4TX	81.9M	75.862M	75M9D1D	81.3M	75.762M
802.11ax HEW20_Nss1,(MCS0)_4TX	21.7M	19.015M	19M0D1D	21.45M	18.916M
802.11ax HEW40_Nss1,(MCS0)_4TX	40.1M	37.681M	37M7D1D	39.65M	37.431M
802.11ax HEW80_Nss1,(MCS0)_4TX	81.4M	77.061M	77M1D1D	81M	76.862M
802.11ax HEW160_Nss1,(MCS0)_4TX	82.4M	77.321M	77M3D1D	81.28M	76.922M
5.47-5.725GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	21.925M	16.6M	16M6D1D	15.495M	13.238M
802.11ac VHT20_Nss1,(MCS0)_4TX	21.825M	17.841M	17M8D1D	15.6M	13.868M
802.11ac VHT40_Nss1,(MCS0)_4TX	40.35M	36.382M	36M4D1D	34.895M	32.954M
802.11ac VHT80_Nss1,(MCS0)_4TX	82.4M	75.862M	75M9D1D	75.525M	72.264M
802.11ax HEW20_Nss1,(MCS0)_4TX	21.85M	18.991M	19M0D1D	15.615M	14.468M
802.11ax HEW40_Nss1,(MCS0)_4TX	40.25M	37.631M	37M6D1D	34.93M	33.618M
802.11ax HEW80_Nss1,(MCS0)_4TX	81.8M	77.261M	77M3D1D	75.525M	73.013M
802.11ax HEW160_Nss1,(MCS0)_4TX	164.8M	155.522M	156MD1D	163.8M	154.923M
5.725-5.85GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	3.24M	3.982M	3M98D1D	3.14M	3.828M
802.11ac VHT20_Nss1,(MCS0)_4TX	3.8M	4.338M	4M34D1D	3.78M	4.258M
802.11ac VHT40_Nss1,(MCS0)_4TX	3.18M	3.678M	3M68D1D	3.14M	3.538M
802.11ac VHT80_Nss1,(MCS0)_4TX	3.16M	4.078M	4M08D1D	3.12M	3.858M
802.11ax HEW20_Nss1,(MCS0)_4TX	4.46M	4.558M	4M56D1D	4.42M	4.538M
802.11ax HEW40_Nss1,(MCS0)_4TX	3.84M	4.078M	4M08D1D	3.5M	4.058M
802.11ax HEW80_Nss1,(MCS0)_4TX	3.82M	4.158M	4M16D1D	3.54M	4.118M

Max-N dB = Maximum 6dB down bandwidth; **Max-OBW** = Maximum 99% occupied bandwidth;

Min-N dB = Minimum 6dB down bandwidth; **Min-OBW** = Minimum 99% occupied bandwidth;

Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)	Port 3-N dB (Hz)	Port 3-OBW (Hz)	Port 4-N dB (Hz)	Port 4-OBW (Hz)
802.11a_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-	-	-
5260MHz	Pass	Inf	21.375M	16.566M	21.7M	16.53M	21.575M	16.573M	21.45M	16.55M
5300MHz	Pass	Inf	21.375M	16.536M	21.475M	16.546M	21.65M	16.565M	21.55M	16.527M
5320MHz	Pass	Inf	21.325M	16.617M	21.775M	16.541M	21.625M	16.576M	21.375M	16.544M
5500MHz	Pass	Inf	21.425M	16.586M	21.925M	16.597M	21.575M	16.548M	21.4M	16.545M
5580MHz	Pass	Inf	21.525M	16.536M	21.7M	16.6M	21.6M	16.536M	21.475M	16.526M
5700MHz	Pass	Inf	21.5M	16.519M	21.75M	16.584M	21.625M	16.546M	21.4M	16.52M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	15.525M	13.238M	15.495M	13.268M	15.66M	13.303M	15.585M	13.275M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	3.14M	3.828M	3.24M	3.982M	3.16M	3.847M	3.2M	3.955M
802.11ac VHT20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5260MHz	Pass	Inf	21.725M	17.766M	21.575M	17.766M	21.525M	17.741M	21.75M	17.766M
5300MHz	Pass	Inf	21.75M	17.791M	21.425M	17.716M	21.525M	17.766M	21.85M	17.791M
5320MHz	Pass	Inf	21.725M	17.716M	21.65M	17.741M	21.5M	17.766M	21.775M	17.741M
5500MHz	Pass	Inf	21.8M	17.791M	21.65M	17.741M	21.475M	17.791M	21.675M	17.766M
5580MHz	Pass	Inf	21.825M	17.791M	21.55M	17.766M	21.55M	17.791M	21.675M	17.766M
5700MHz	Pass	Inf	21.825M	17.841M	21.6M	17.791M	21.45M	17.766M	21.6M	17.766M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	15.63M	13.868M	15.615M	13.868M	15.6M	13.868M	15.66M	13.883M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	3.78M	4.338M	3.8M	4.318M	3.78M	4.258M	3.78M	4.278M
802.11ac VHT40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5270MHz	Pass	Inf	40.1M	36.232M	39.8M	36.232M	39.95M	36.282M	40M	36.282M
5310MHz	Pass	Inf	40.25M	36.232M	39.9M	36.182M	40M	36.382M	39.8M	36.282M
5510MHz	Pass	Inf	40.2M	36.132M	39.9M	36.182M	40.1M	36.282M	40.15M	36.282M
5550MHz	Pass	Inf	40.35M	36.282M	39.85M	36.232M	39.85M	36.382M	39.9M	36.282M
5670MHz	Pass	Inf	40.05M	36.232M	39.7M	36.132M	39.9M	36.232M	39.75M	36.132M
5710MHz Straddle 5.47-5.725GHz	Pass	Inf	35.07M	33.023M	34.895M	32.954M	35M	32.954M	34.895M	33.058M
5710MHz Straddle 5.725-5.85GHz	Pass	500k	3.16M	3.618M	3.16M	3.678M	3.18M	3.598M	3.14M	3.538M
802.11ac VHT80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5290MHz	Pass	Inf	81.9M	75.862M	81.3M	75.762M	81.6M	75.762M	81.9M	75.762M
5530MHz	Pass	Inf	82.2M	75.762M	81.4M	75.662M	81.2M	75.762M	82.1M	75.862M
5610MHz	Pass	Inf	82.4M	75.662M	81.4M	75.562M	81.2M	75.762M	82.1M	75.662M
5690MHz Straddle 5.47-5.725GHz	Pass	Inf	75.975M	72.564M	75.525M	72.264M	75.525M	72.414M	75.975M	72.489M
5690MHz Straddle 5.725-5.85GHz	Pass	500k	3.12M	4.058M	3.16M	4.078M	3.16M	4.038M	3.16M	3.858M
802.11ax HEW20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5260MHz	Pass	Inf	21.7M	18.966M	21.6M	18.966M	21.7M	18.991M	21.625M	19.015M
5300MHz	Pass	Inf	21.65M	18.941M	21.45M	18.941M	21.65M	18.916M	21.625M	18.966M
5320MHz	Pass	Inf	21.65M	18.991M	21.7M	18.966M	21.7M	18.966M	21.7M	18.966M
5500MHz	Pass	Inf	21.675M	18.991M	21.575M	18.966M	21.65M	18.941M	21.6M	18.991M
5580MHz	Pass	Inf	21.75M	18.966M	21.35M	18.941M	21.85M	18.966M	21.775M	18.941M
5700MHz	Pass	Inf	21.7M	18.966M	21.55M	18.941M	21.7M	18.966M	21.7M	18.916M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	15.75M	14.483M	15.615M	14.468M	15.735M	14.468M	15.75M	14.468M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	4.44M	4.538M	4.46M	4.558M	4.42M	4.558M	4.46M	4.538M
802.11ax HEW40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5270MHz	Pass	Inf	40.05M	37.481M	39.85M	37.531M	39.9M	37.531M	40M	37.681M
5310MHz	Pass	Inf	40M	37.481M	39.65M	37.531M	39.9M	37.631M	40.1M	37.431M

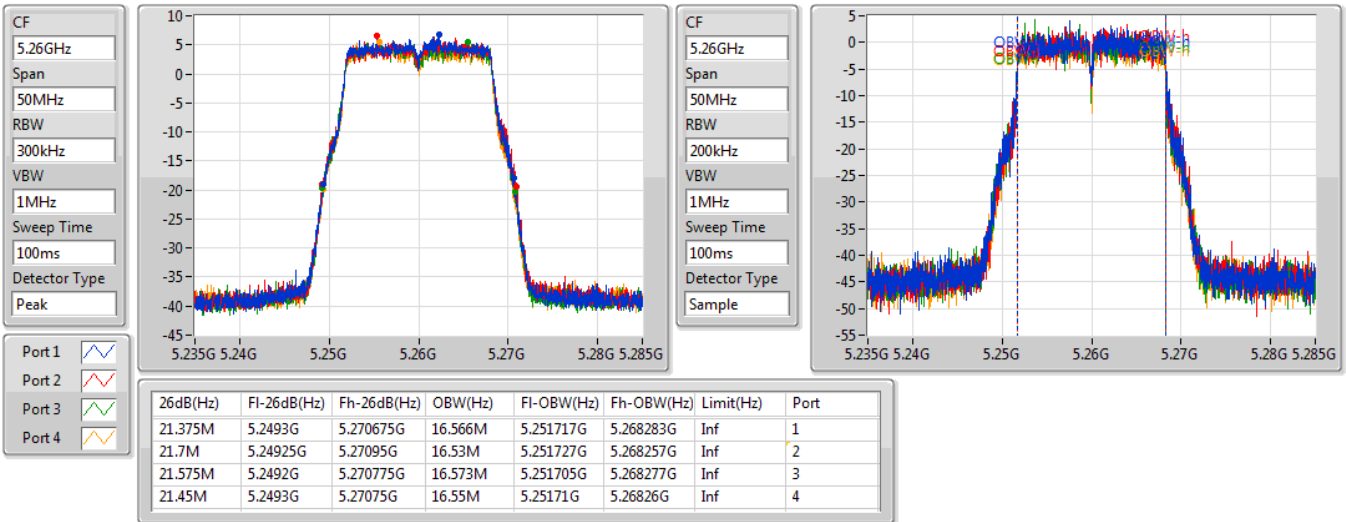
Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)	Port 3-N dB (Hz)	Port 3-OBW (Hz)	Port 4-N dB (Hz)	Port 4-OBW (Hz)
5510MHz	Pass	Inf	40.2M	37.581M	39.85M	37.581M	40M	37.631M	39.7M	37.631M
5550MHz	Pass	Inf	40.15M	37.631M	39.85M	37.581M	40.1M	37.581M	40.25M	37.581M
5670MHz	Pass	Inf	40.05M	37.531M	39.8M	37.581M	39.9M	37.531M	39.95M	37.481M
5710MHz Straddle 5.47-5.725GHz	Pass	Inf	35.035M	33.688M	34.93M	33.723M	34.965M	33.653M	35.035M	33.618M
5710MHz Straddle 5.725-5.85GHz	Pass	500k	3.76M	4.078M	3.5M	4.078M	3.84M	4.058M	3.56M	4.078M
802.11ax HEW80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5290MHz	Pass	Inf	81M	77.061M	81M	77.061M	81.3M	77.061M	81.4M	76.862M
5530MHz	Pass	Inf	81.4M	77.161M	81.3M	77.161M	81.4M	77.161M	81.8M	77.061M
5610MHz	Pass	Inf	81.4M	76.862M	81.3M	77.261M	81.4M	77.261M	81.7M	77.061M
5690MHz Straddle 5.47-5.725GHz	Pass	Inf	75.525M	73.088M	75.6M	73.013M	75.825M	73.013M	75.975M	73.088M
5690MHz Straddle 5.725-5.85GHz	Pass	500k	3.54M	4.138M	3.82M	4.158M	3.54M	4.138M	3.74M	4.118M
802.11ax HEW160_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	Inf	81.2M	77.001M	80.8M	76.922M	80.16M	77.161M	80.64M	77.321M
5250MHz Straddle 5.25-5.35GHz	Pass	Inf	81.28M	76.922M	82.4M	77.321M	81.44M	77.081M	81.36M	77.081M
5570MHz	Pass	Inf	164.8M	155.522M	164.8M	154.923M	163.8M	155.122M	164.6M	155.522M

Port X-N dB = Port X 6dB down bandwidth; **Port X-OBW** = Port X 99% occupied bandwidth;

802.11a_Nss1,(6Mbps)_4TX

EBW
5260MHz

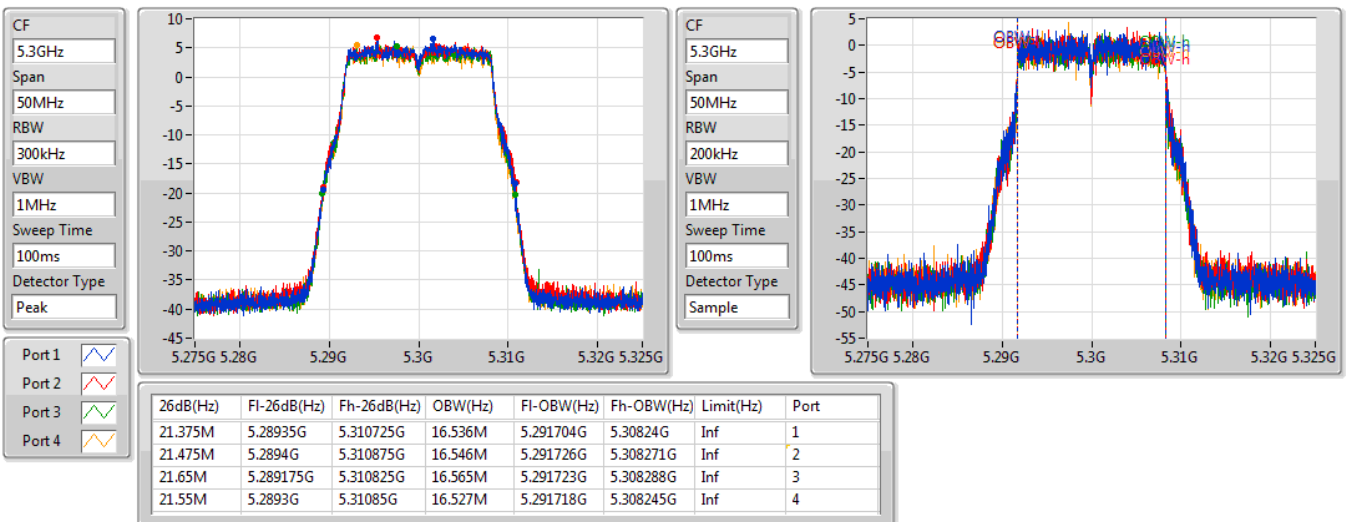
11/09/2019



802.11a_Nss1,(6Mbps)_4TX

EBW
5300MHz

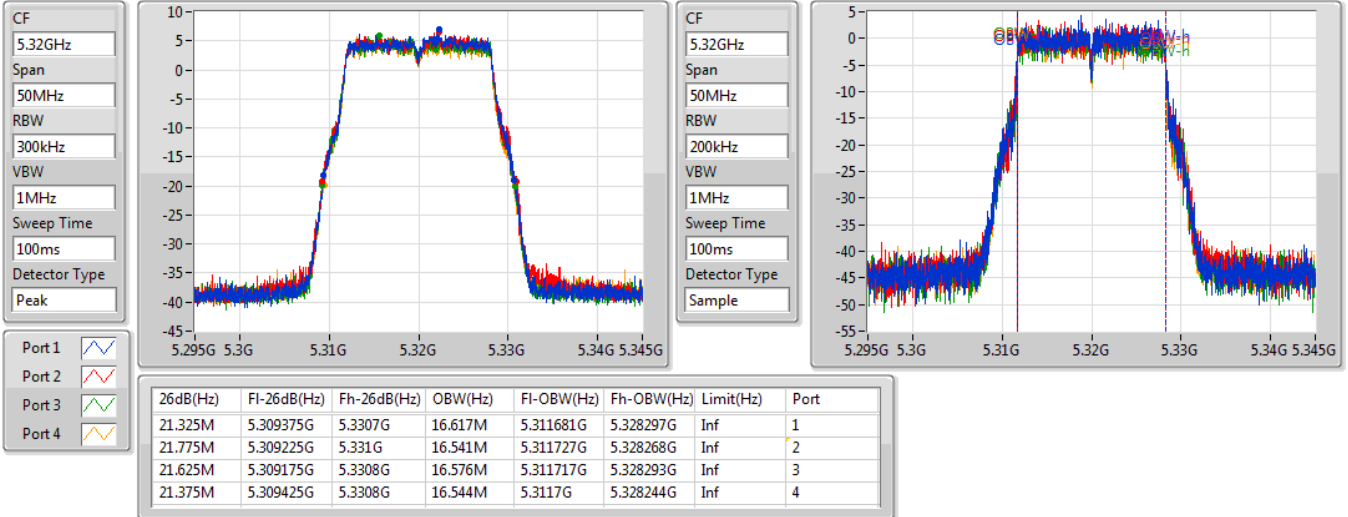
11/09/2019



802.11a_Nss1,(6Mbps)_4TX

EBW
5320MHz

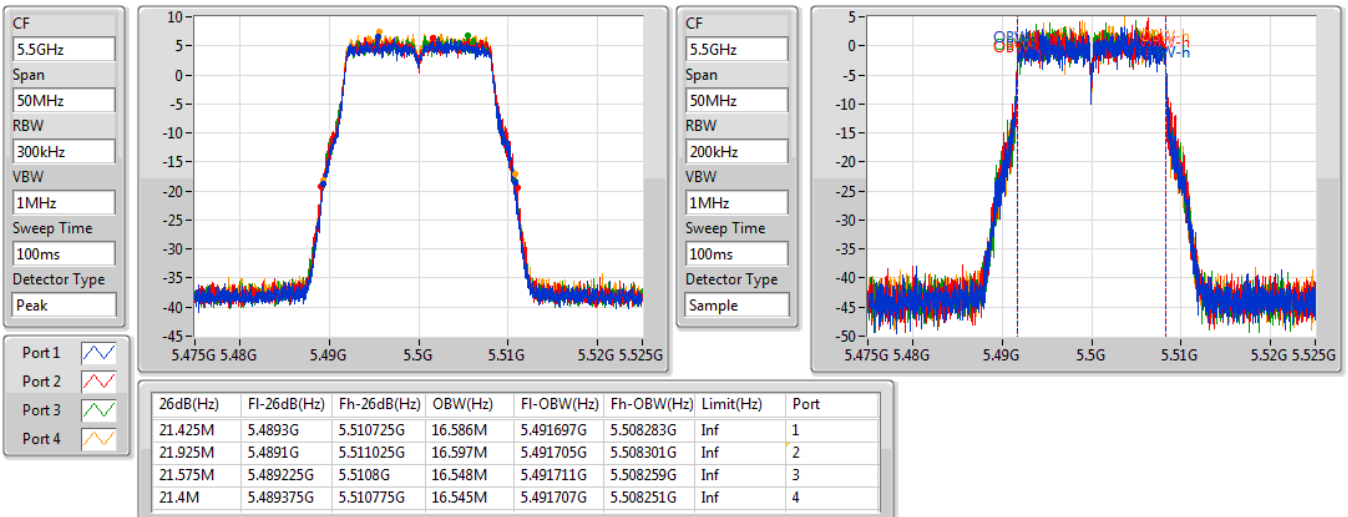
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802.11a_Nss1,(6Mbps)_4TX

EBW
5500MHz

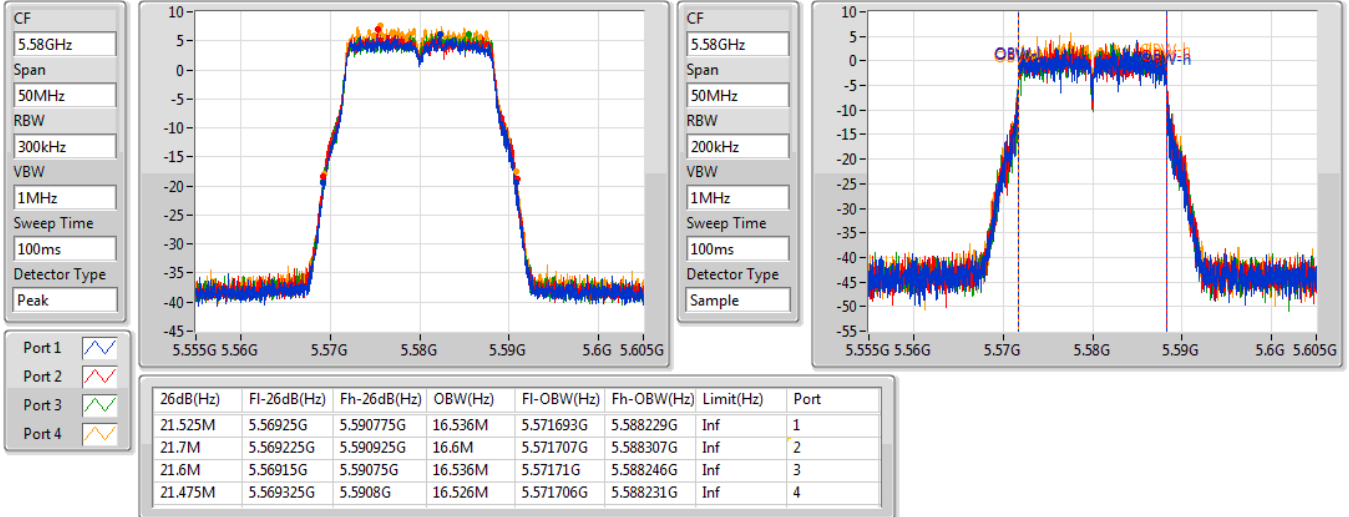
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802.11a_Nss1,(6Mbps)_4TX

EBW
5580MHz

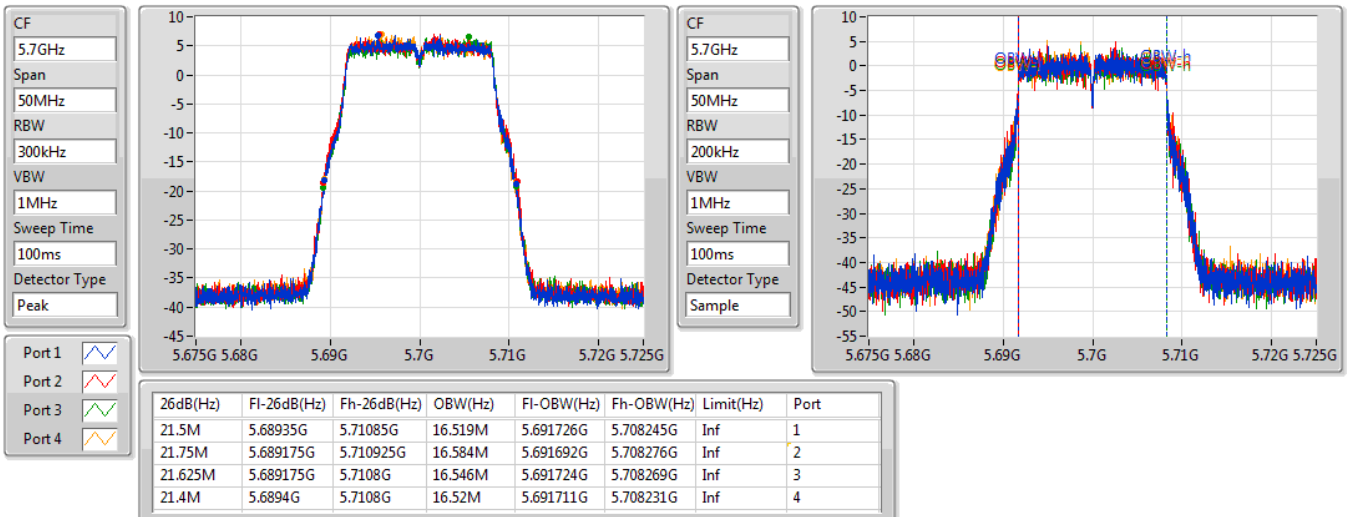
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802.11a_Nss1,(6Mbps)_4TX

EBW
5700MHz

11/09/2019

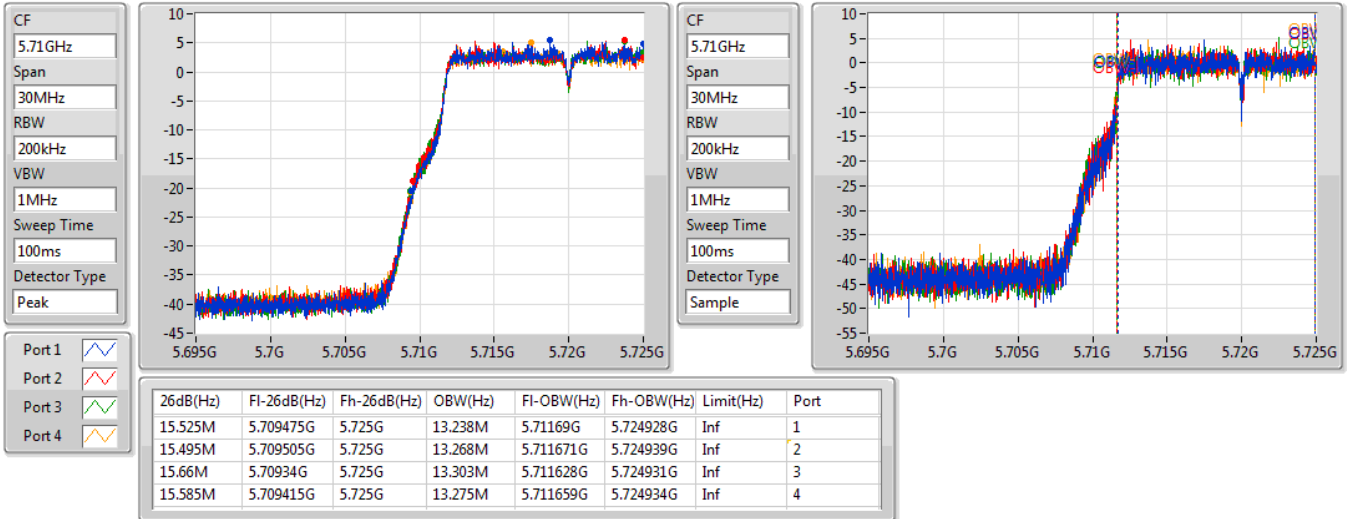


802.11a_Nss1,(6Mbps)_4TX

EBW

5720MHz Straddle 5.47-5.725GHz

11/09/2019

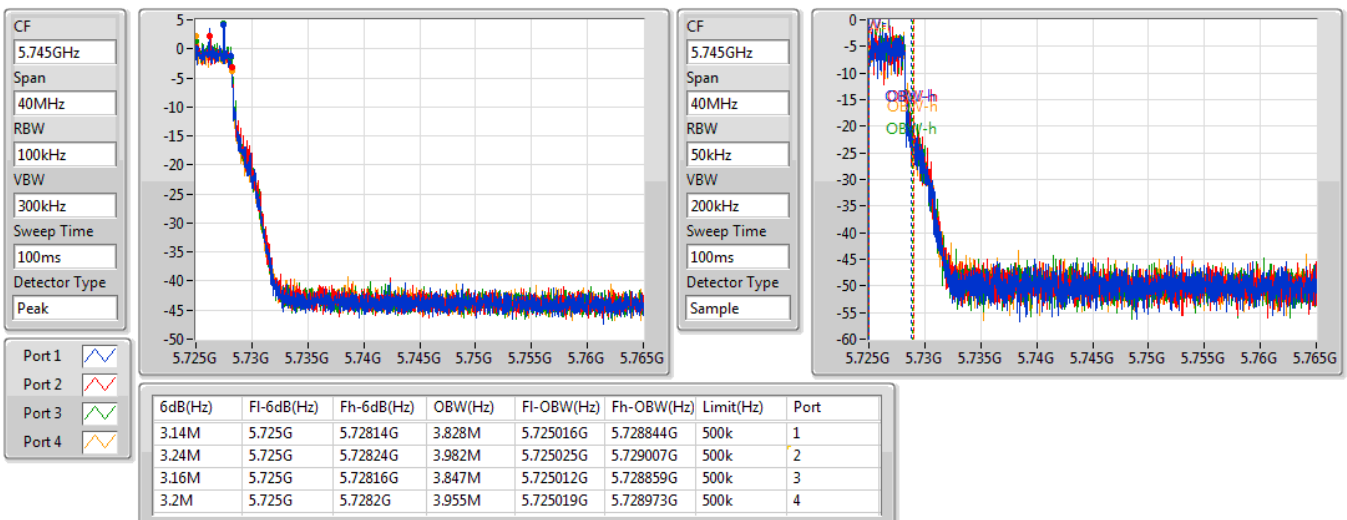


802.11a_Nss1,(6Mbps)_4TX

EBW

5720MHz Straddle 5.725-5.85GHz

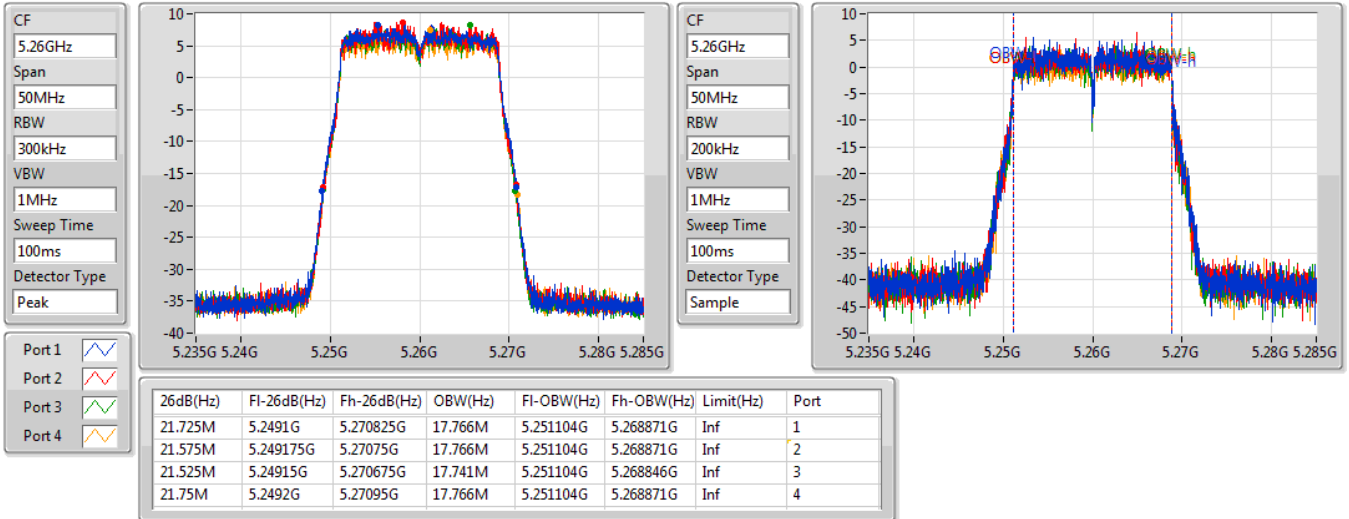
11/09/2019



802.11ac VHT20_Nss1,(MCS0)_4TX

EBW
5260MHz

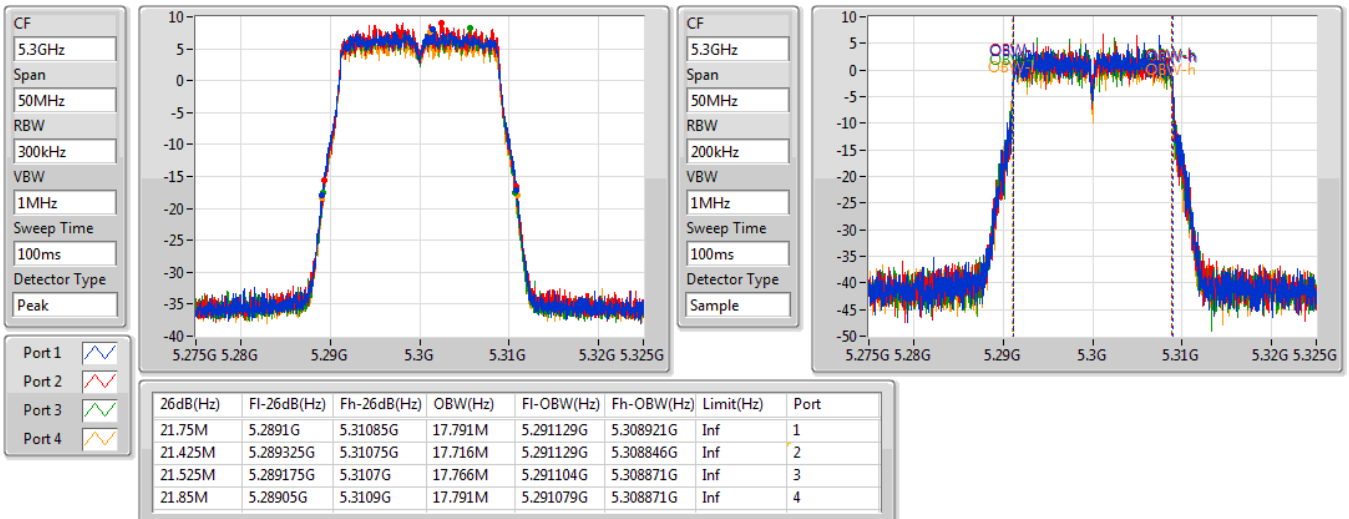
12/09/2019



802.11ac VHT20_Nss1,(MCS0)_4TX

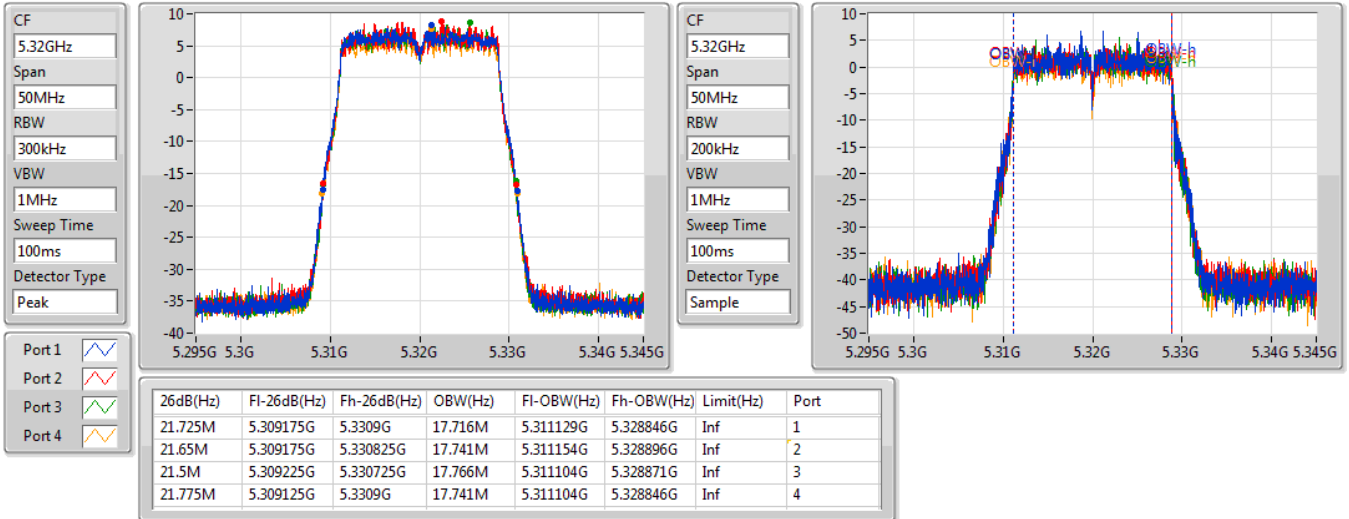
EBW
5300MHz

12/09/2019

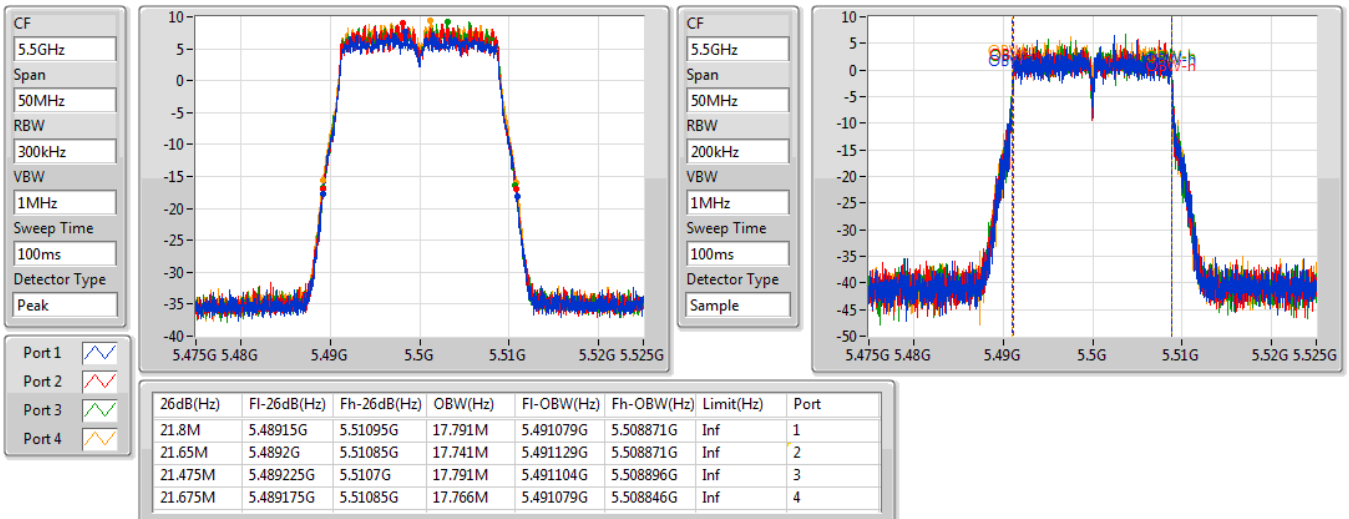


802.11ac VHT20_Nss1,(MCS0)_4TX
EBW
5320MHz

12/09/2019

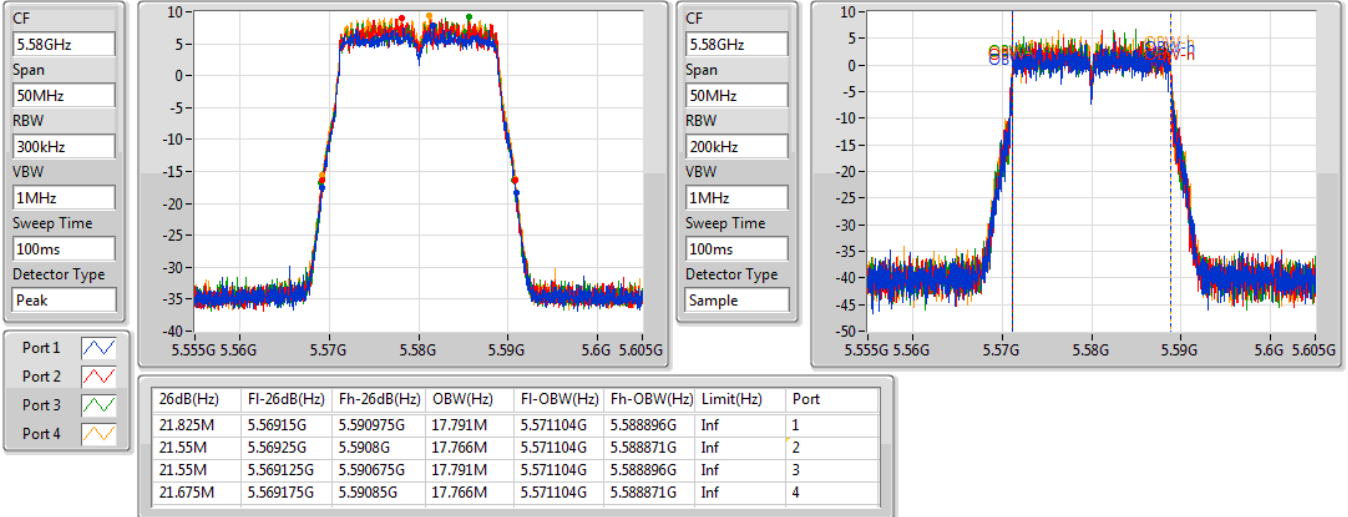

802.11ac VHT20_Nss1,(MCS0)_4TX
EBW
5500MHz

12/09/2019

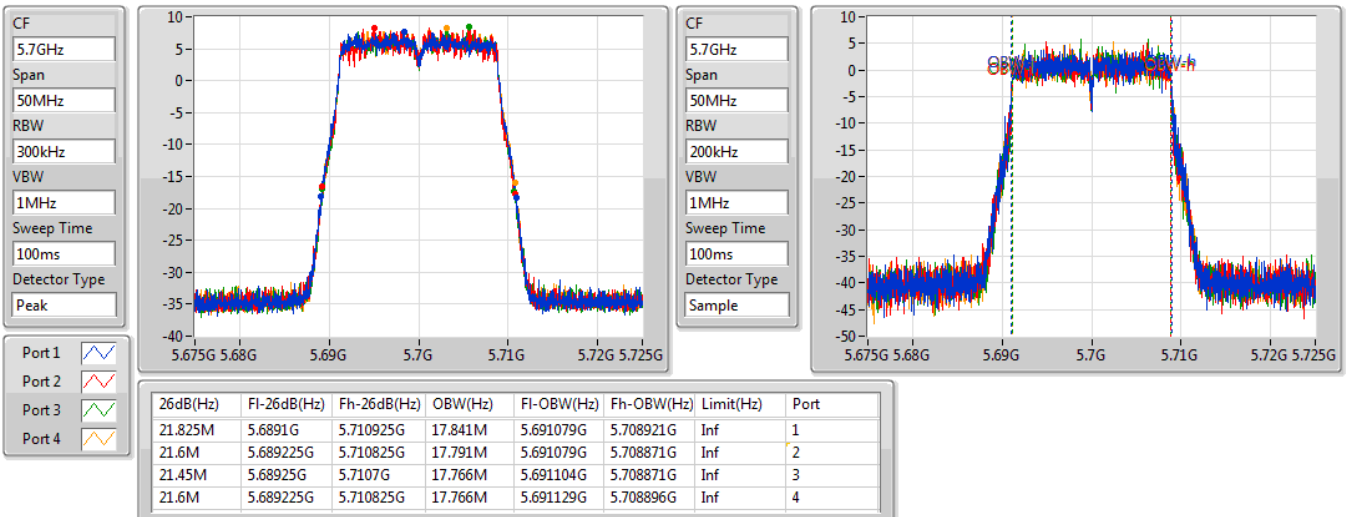


802.11ac VHT20_Nss1,(MCS0)_4TX
EBW
5580MHz

12/09/2019

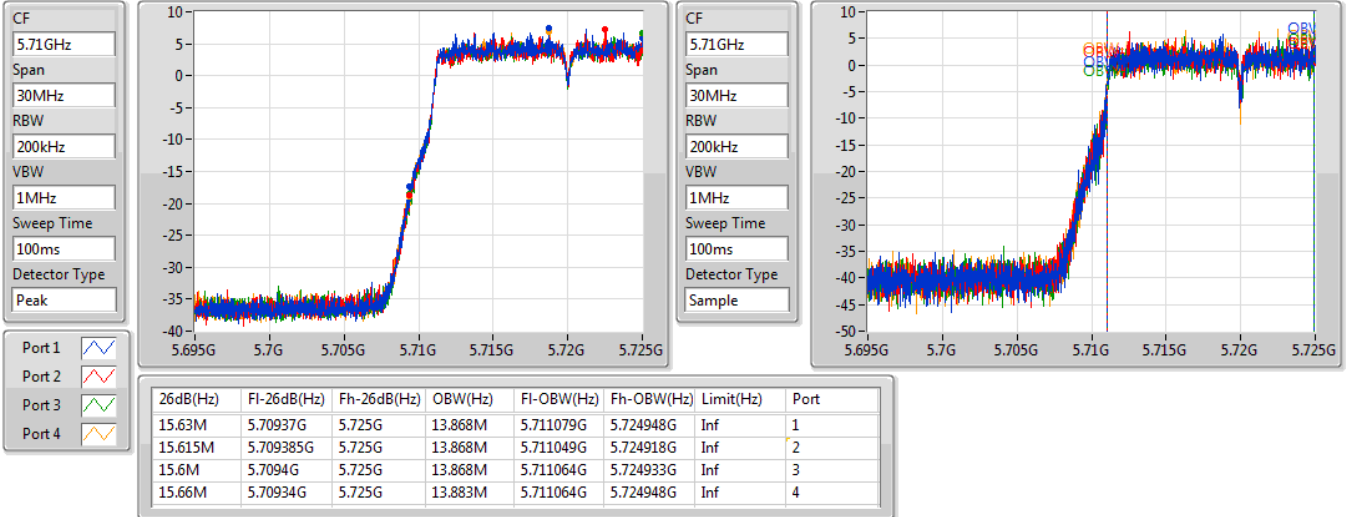

802.11ac VHT20_Nss1,(MCS0)_4TX
EBW
5700MHz

12/09/2019

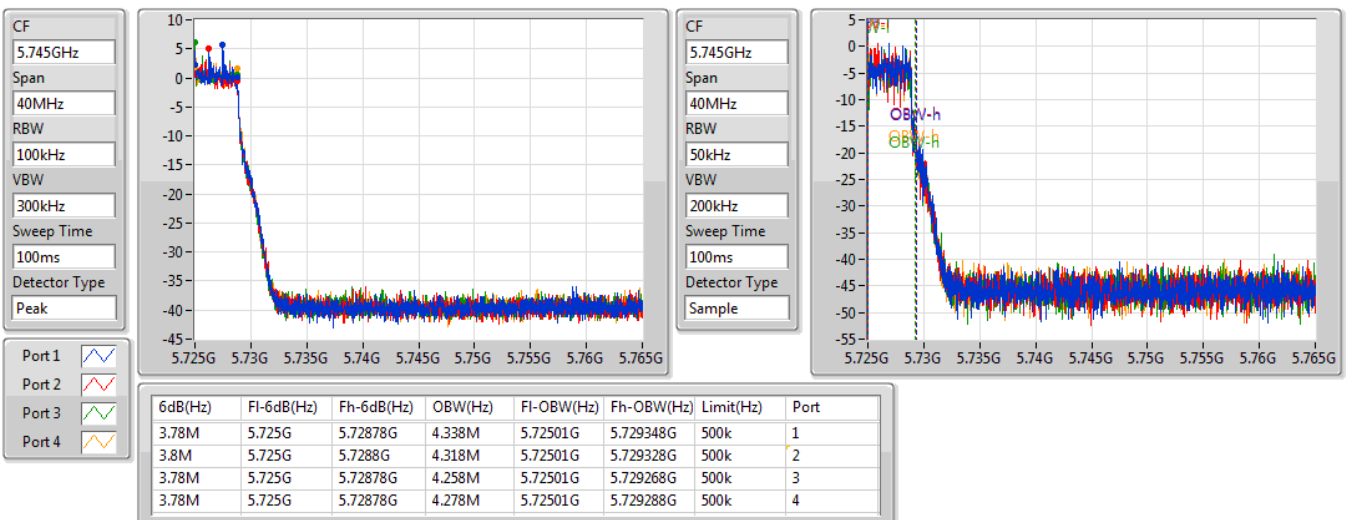


802.11ac VHT20_Nss1,(MCS0)_4TX
EBW
5720MHz Straddle 5.47-5.725GHz

12/09/2019


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

12/09/2019

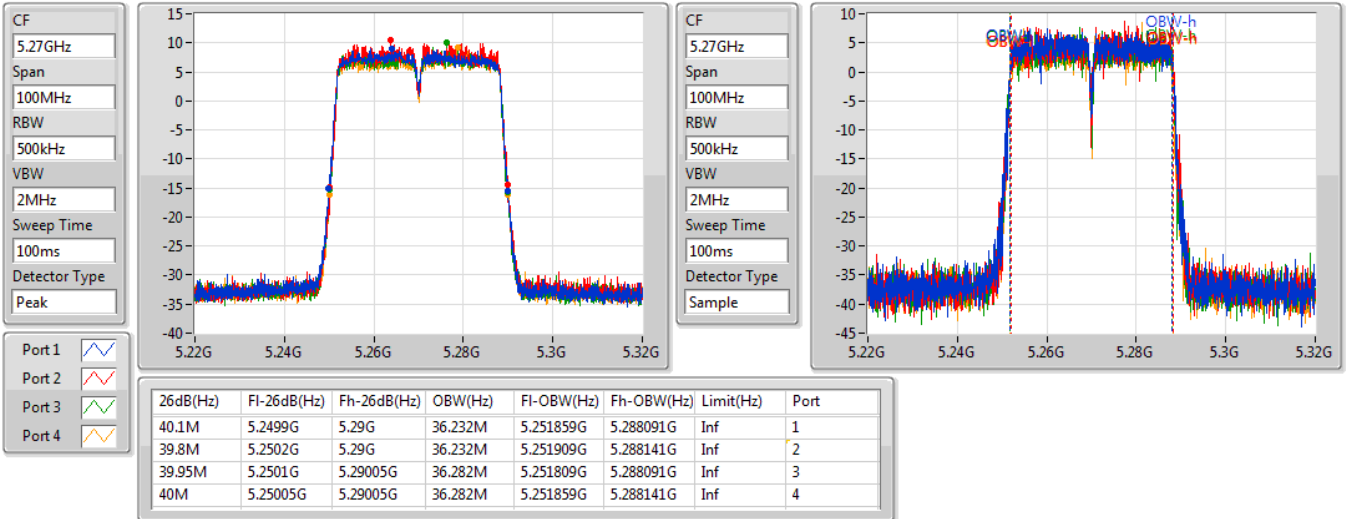


802.11ac VHT40_Nss1,(MCS0)_4TX

EBW

5270MHz

12/09/2019

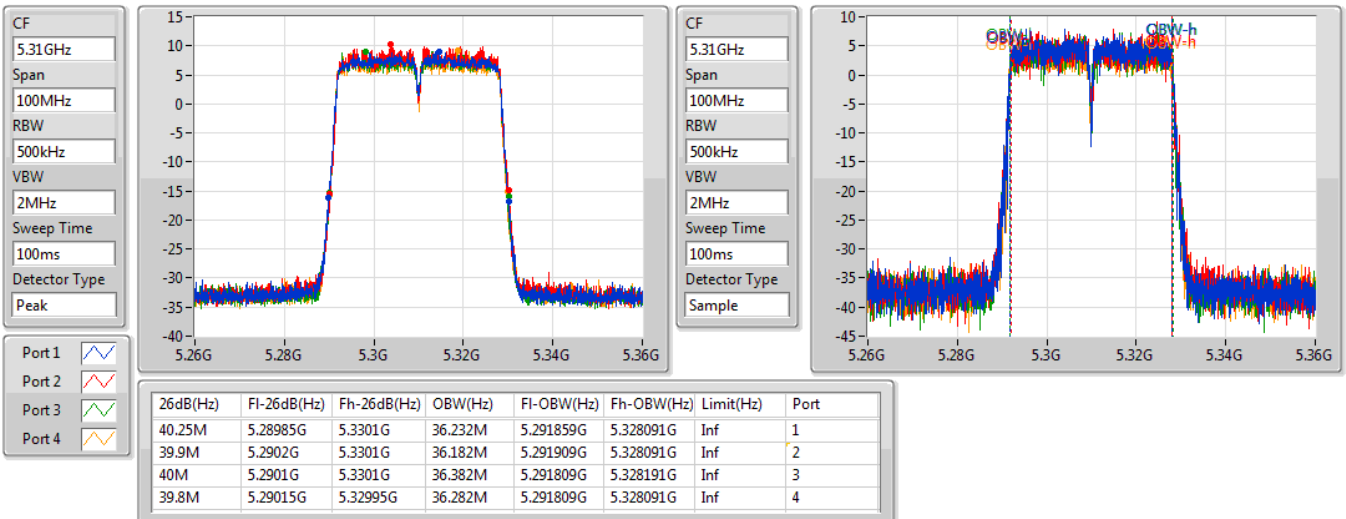


802.11ac VHT40_Nss1,(MCS0)_4TX

EBW

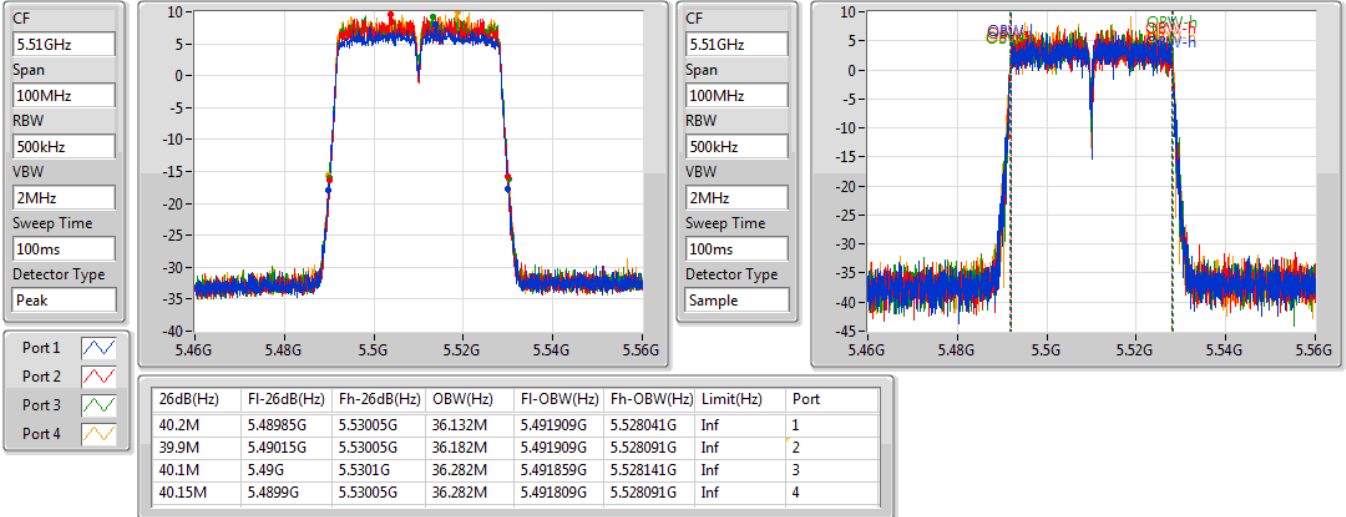
5310MHz

12/09/2019

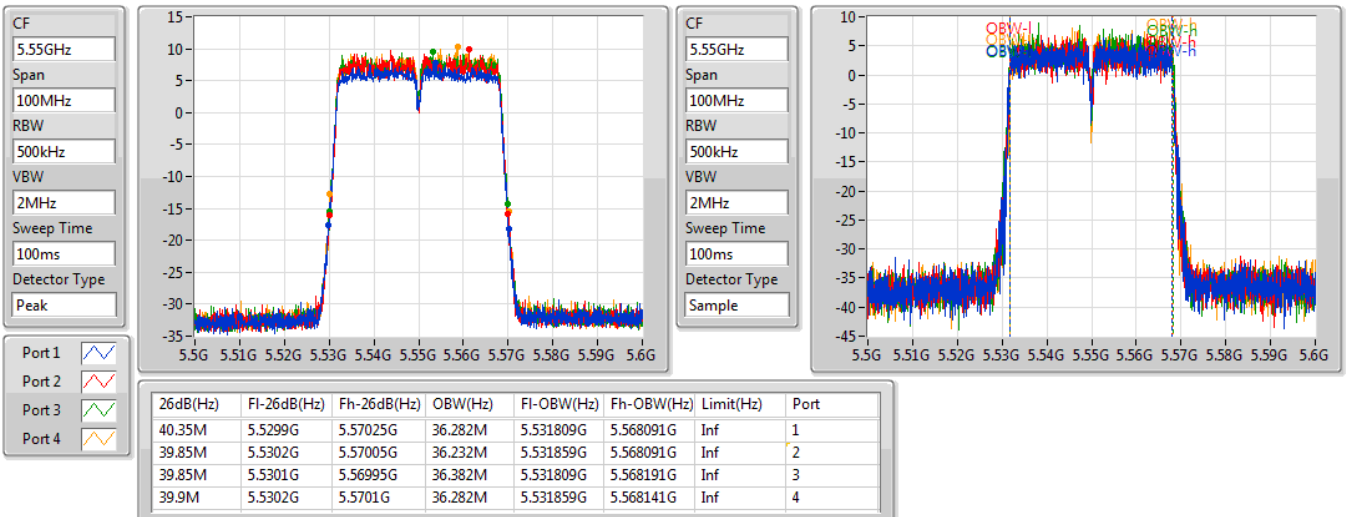


802.11ac VHT40_Nss1,(MCS0)_4TX
EBW
5510MHz

12/09/2019

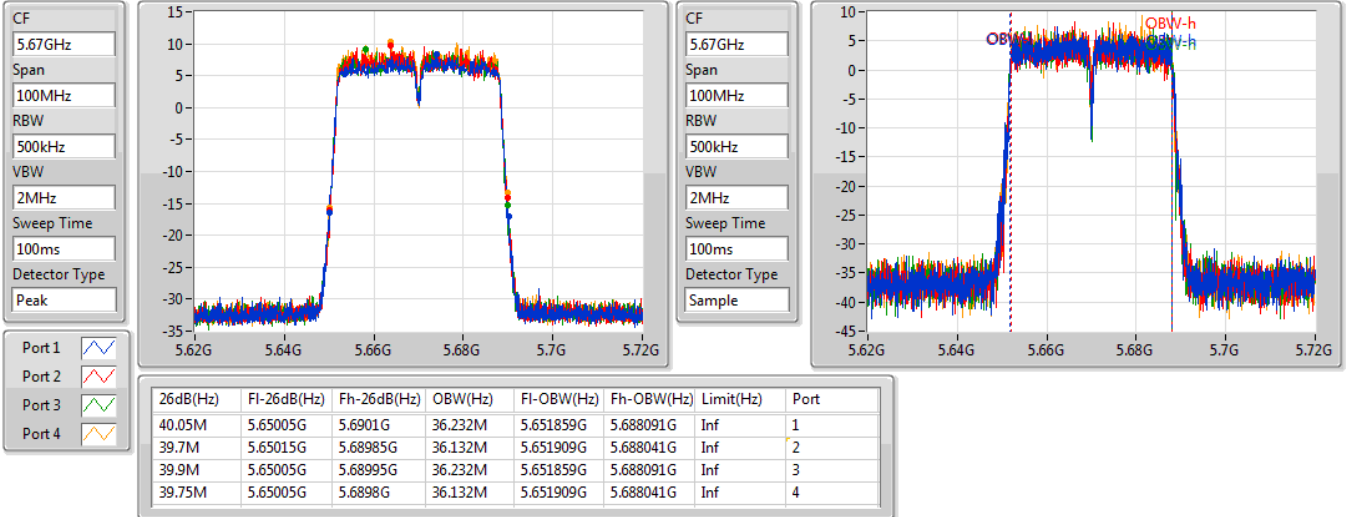

802.11ac VHT40_Nss1,(MCS0)_4TX
EBW
5550MHz

12/09/2019

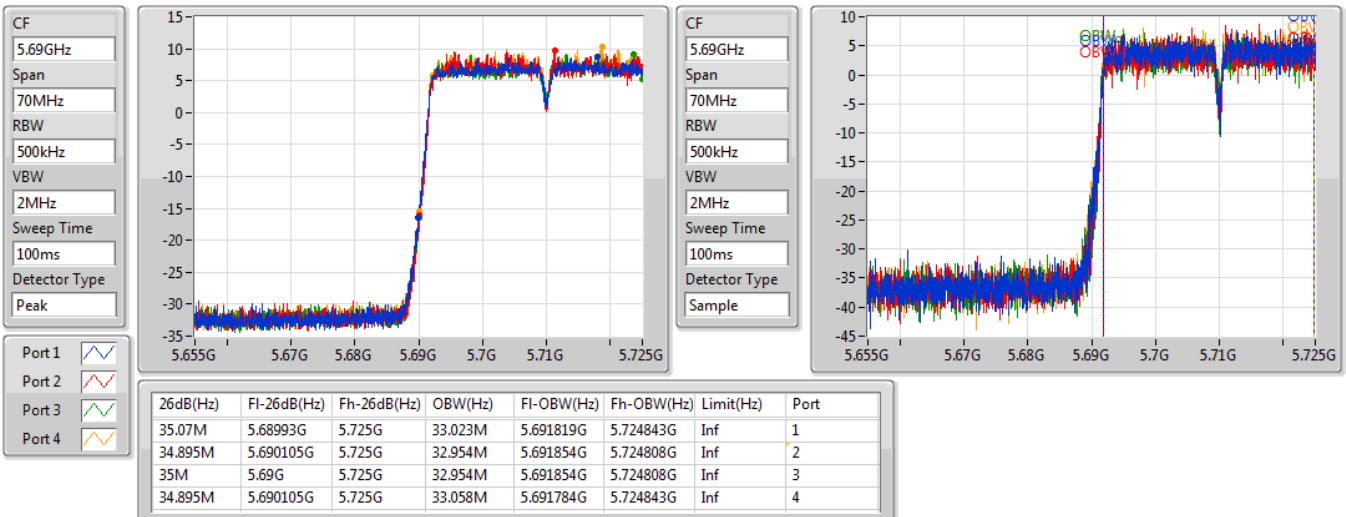


802.11ac VHT40_Nss1,(MCS0)_4TX
EBW
5670MHz

12/09/2019

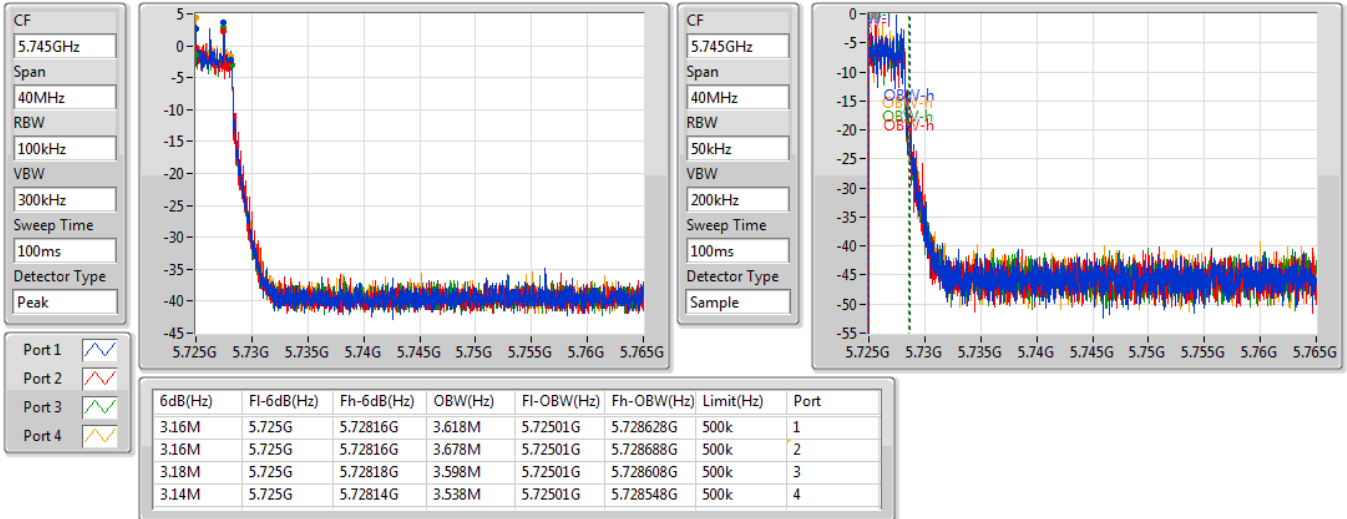

802.11ac VHT40_Nss1,(MCS0)_4TX
EBW
5710MHz Straddle 5.47-5.725GHz

12/09/2019

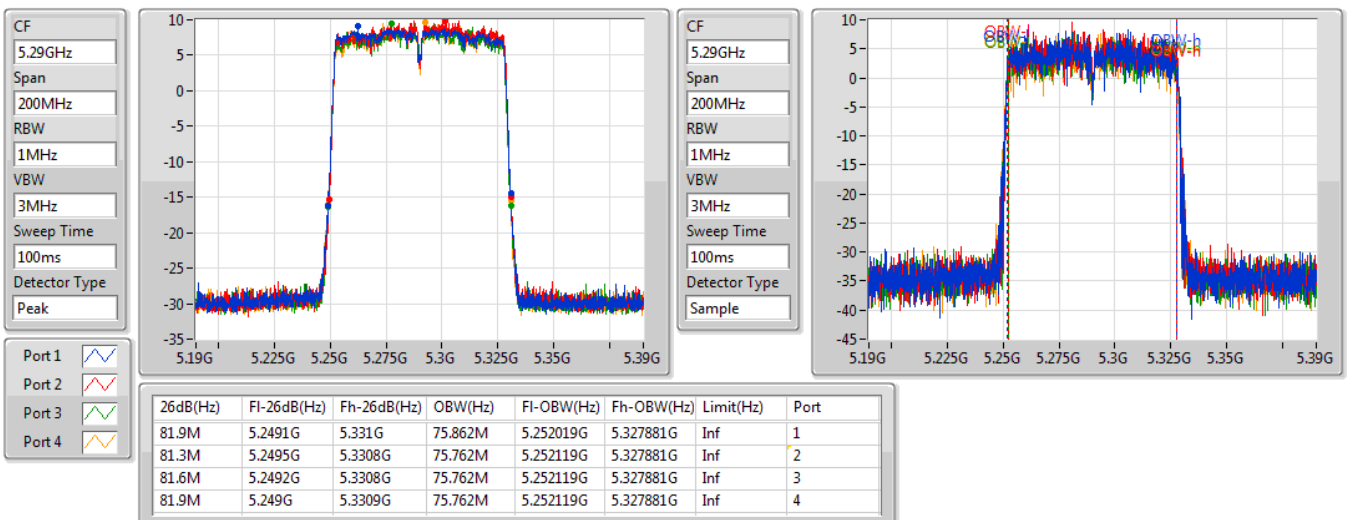


802.11ac VHT40_Nss1,(MCS0)_4TX
EBW
5710MHz Straddle 5.725-5.85GHz

12/09/2019

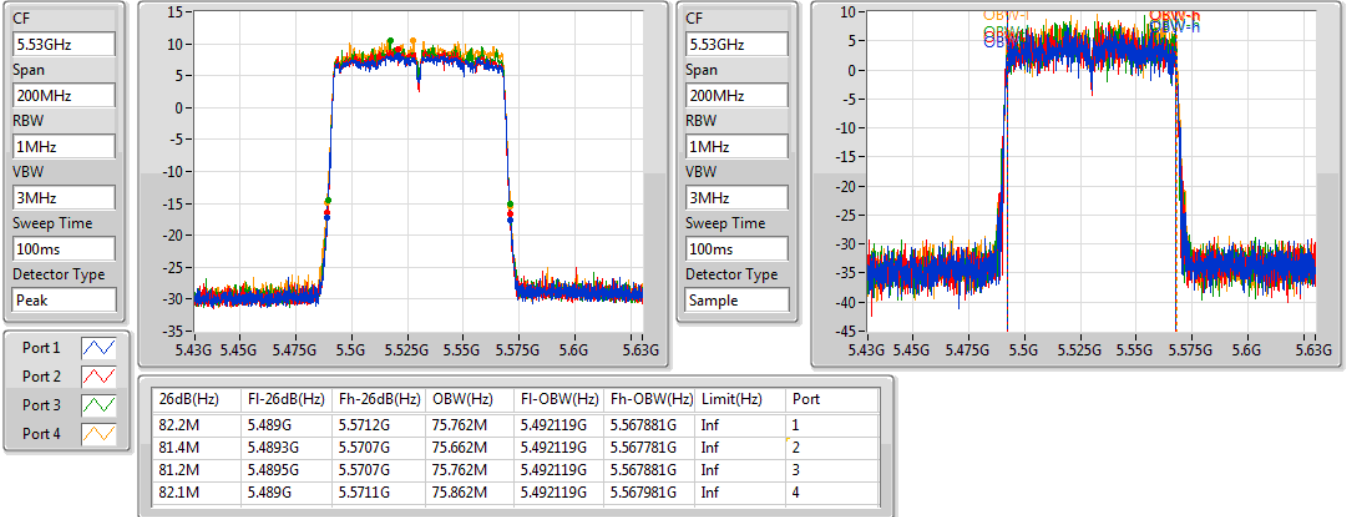

802.11ac VHT80_Nss1,(MCS0)_4TX
EBW
5290MHz

12/09/2019

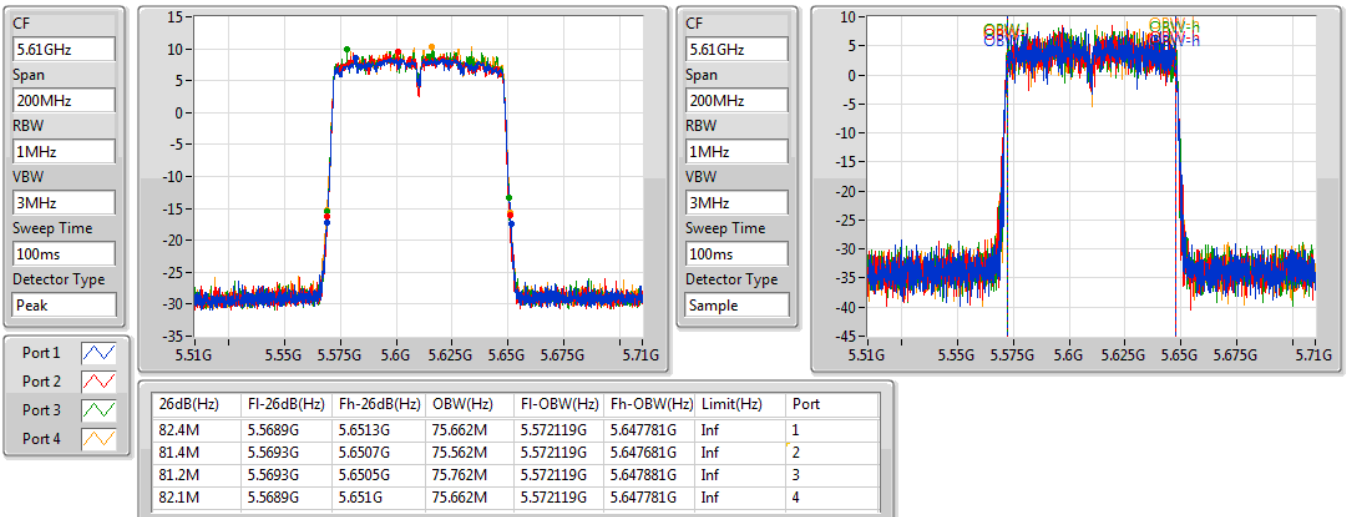


802.11ac VHT80_Nss1,(MCS0)_4TX
EBW
5530MHz

12/09/2019

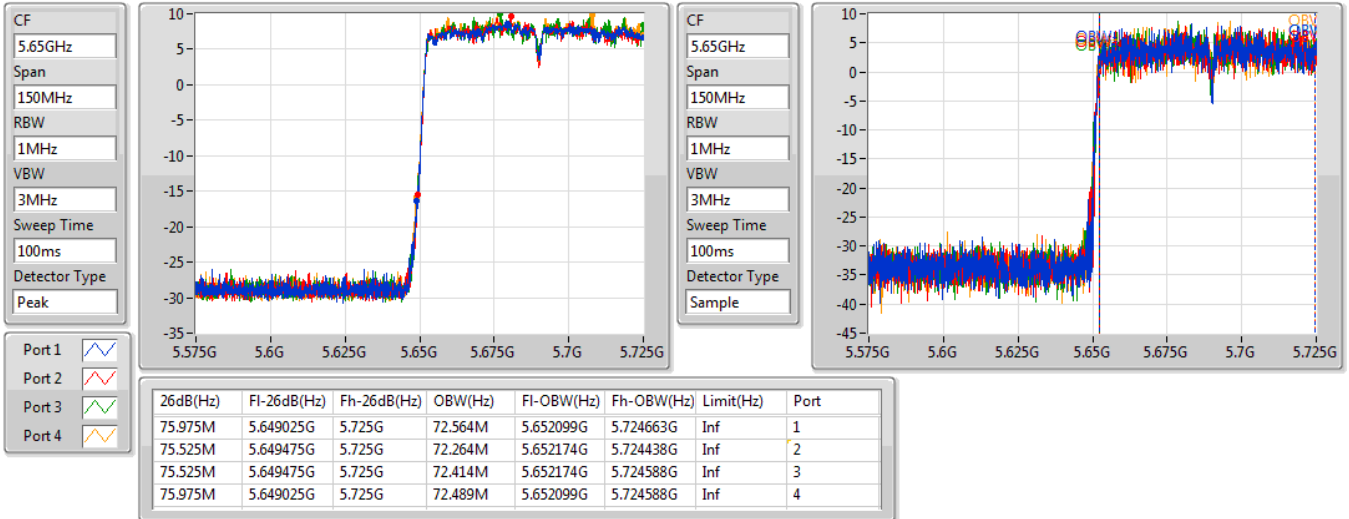

802.11ac VHT80_Nss1,(MCS0)_4TX
EBW
5610MHz

12/09/2019

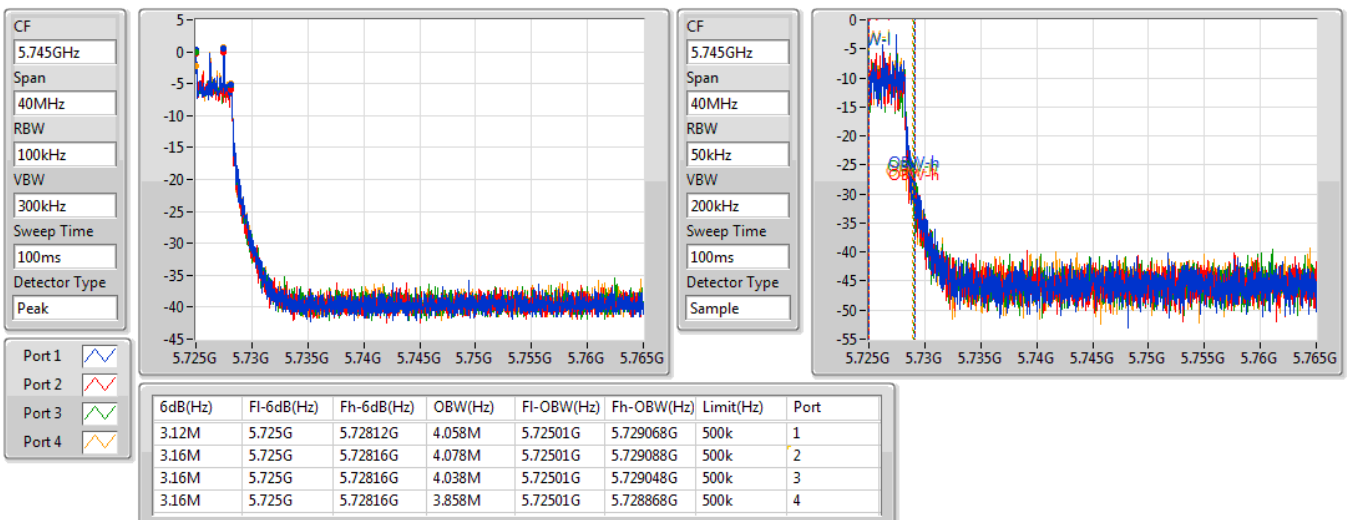


802.11ac VHT80_Nss1,(MCS0)_4TX
EBW
5690MHz Straddle 5.47-5.725GHz

12/09/2019

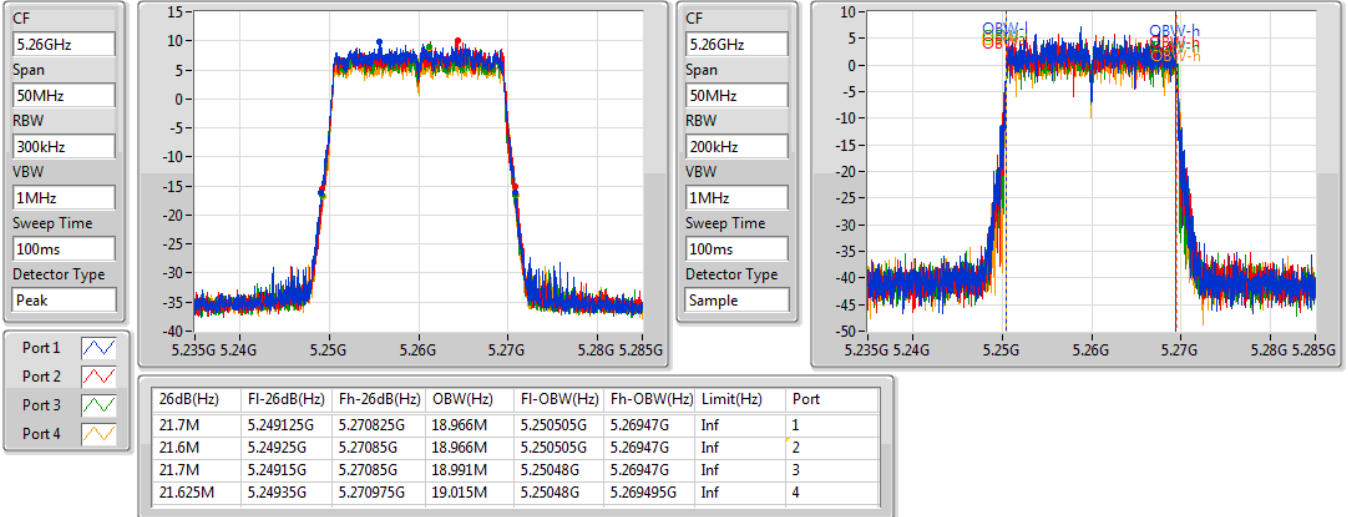

802.11ac VHT80_Nss1,(MCS0)_4TX
EBW
5690MHz Straddle 5.725-5.85GHz

12/09/2019

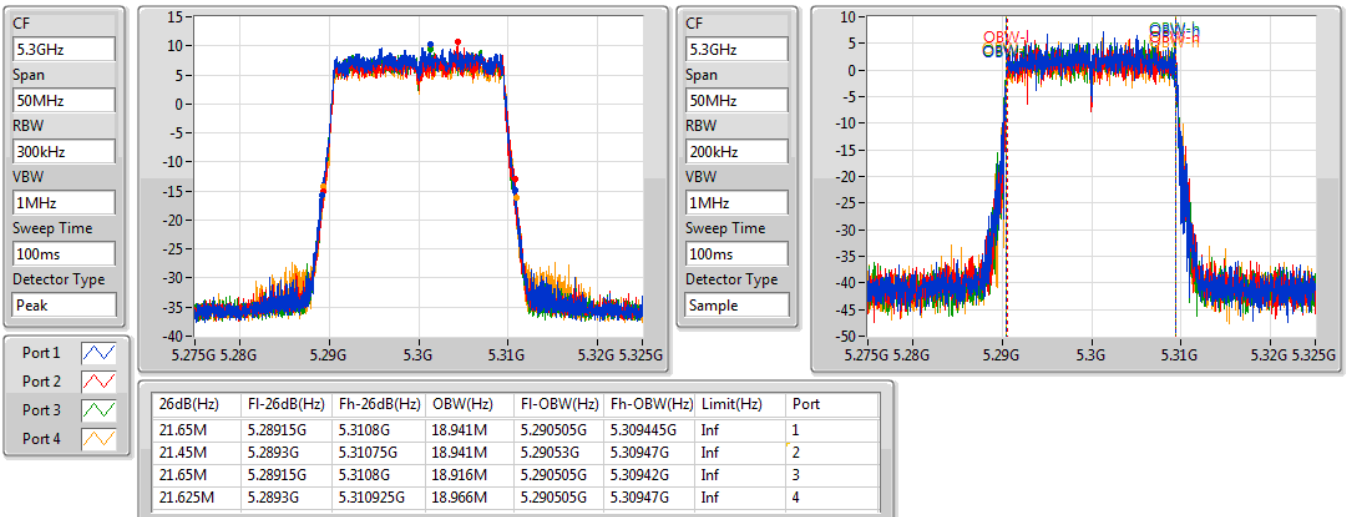


802.11ax HEW20_Nss1,(MCS0)_4TX
EBW
5260MHz

12/09/2019


802.11ax HEW20_Nss1,(MCS0)_4TX
EBW
5300MHz

12/09/2019

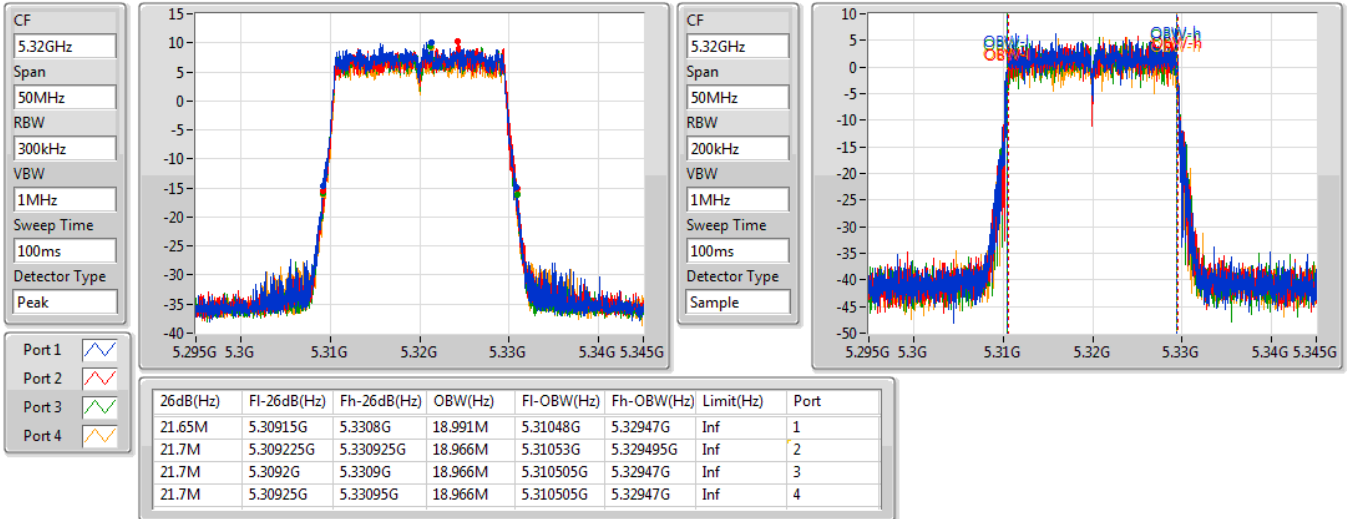


802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

5320MHz

12/09/2019

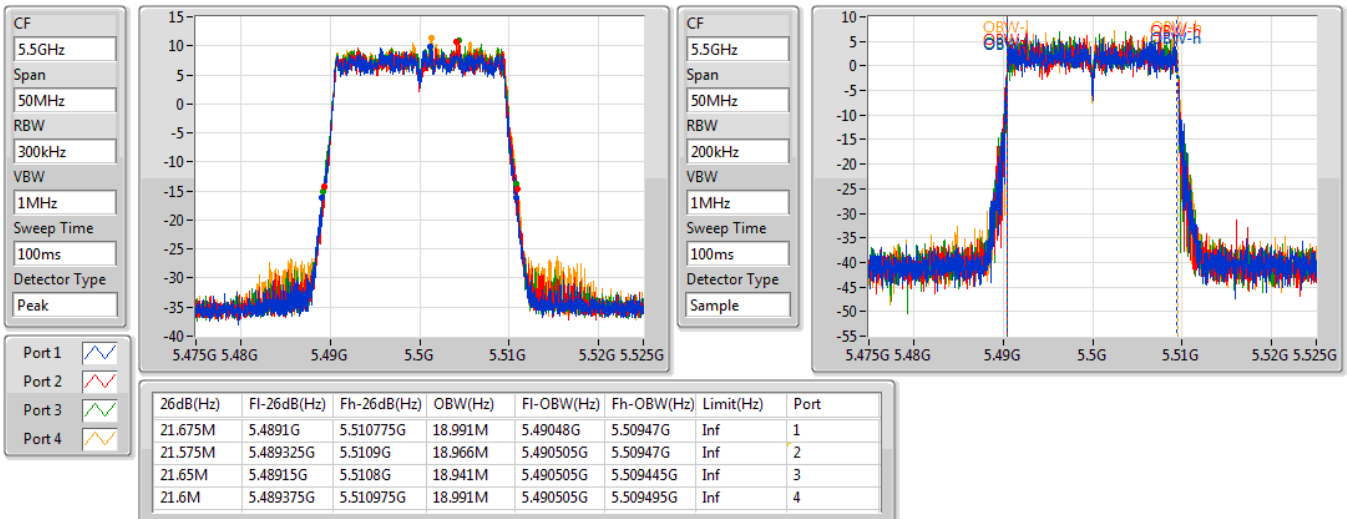


802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

5500MHz

12/09/2019

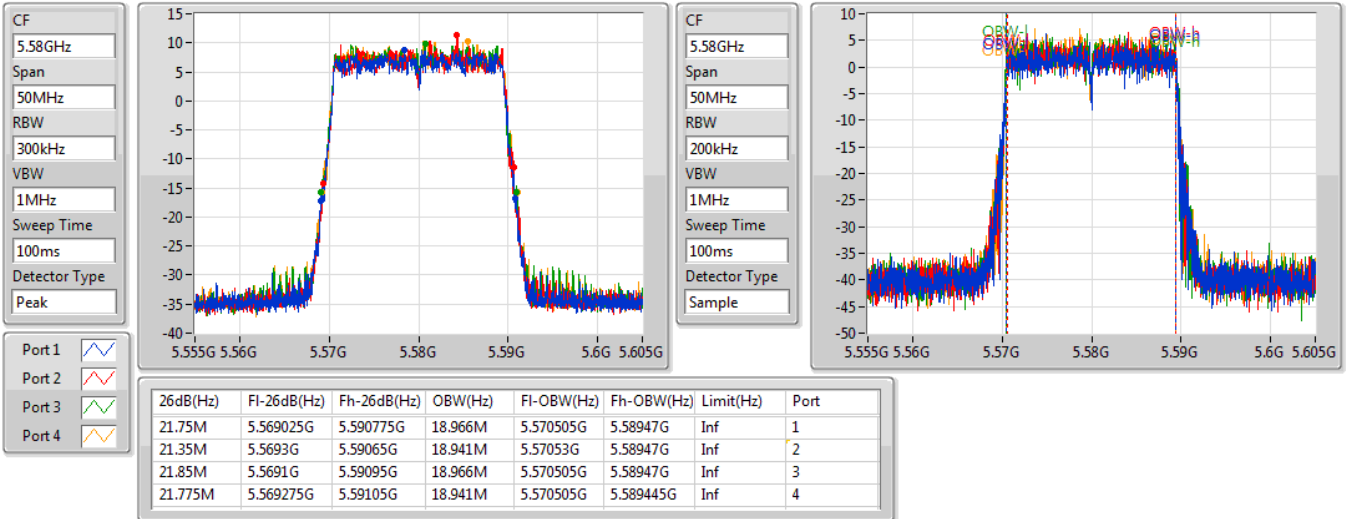


802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

5580MHz

12/09/2019

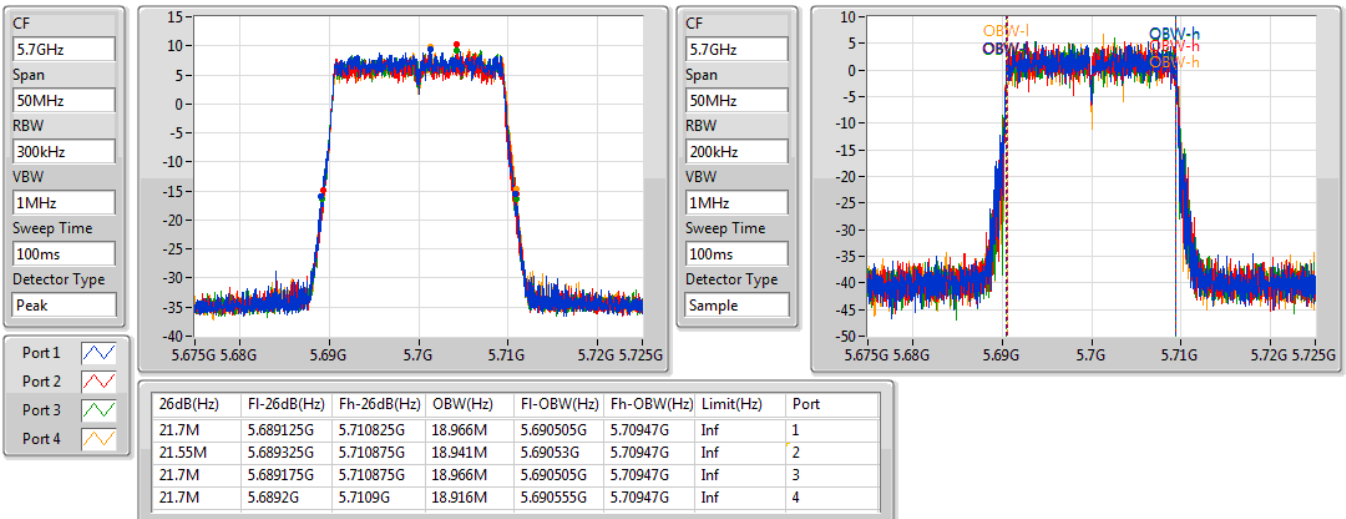


802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

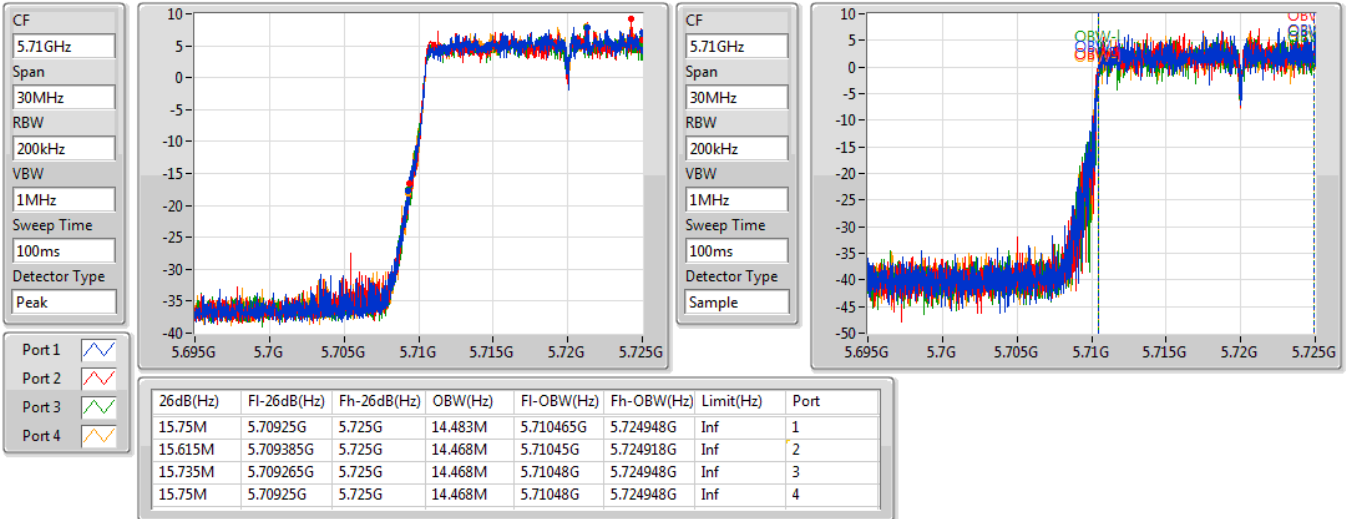
5700MHz

12/09/2019

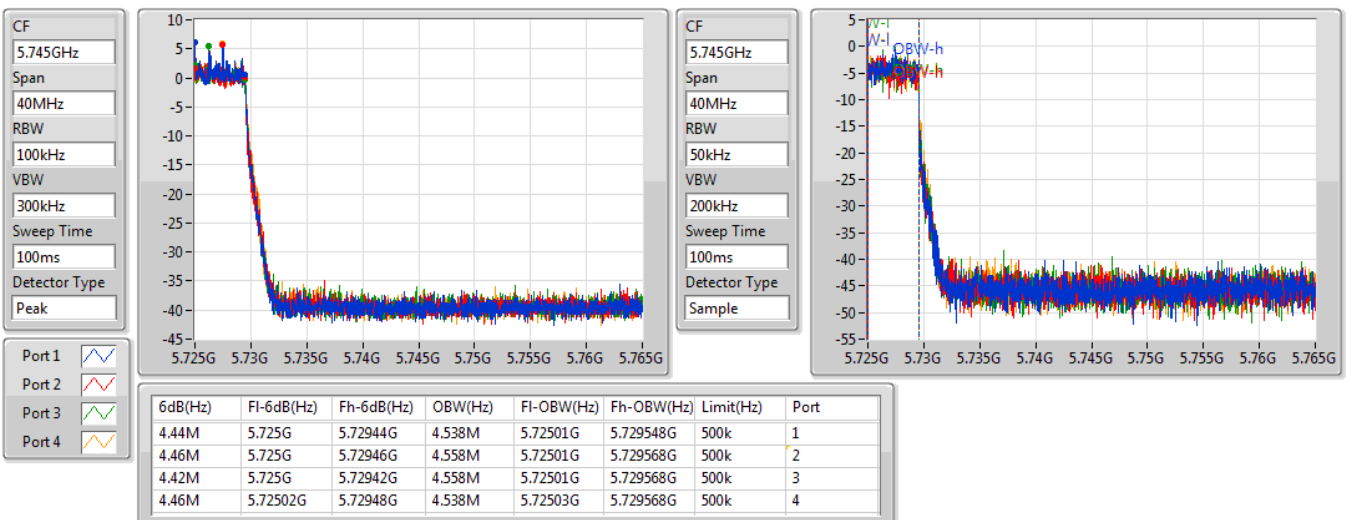


802.11ax HEW20_Nss1,(MCS0)_4TX
EBW
5720MHz Straddle 5.47-5.725GHz

12/09/2019


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

12/09/2019

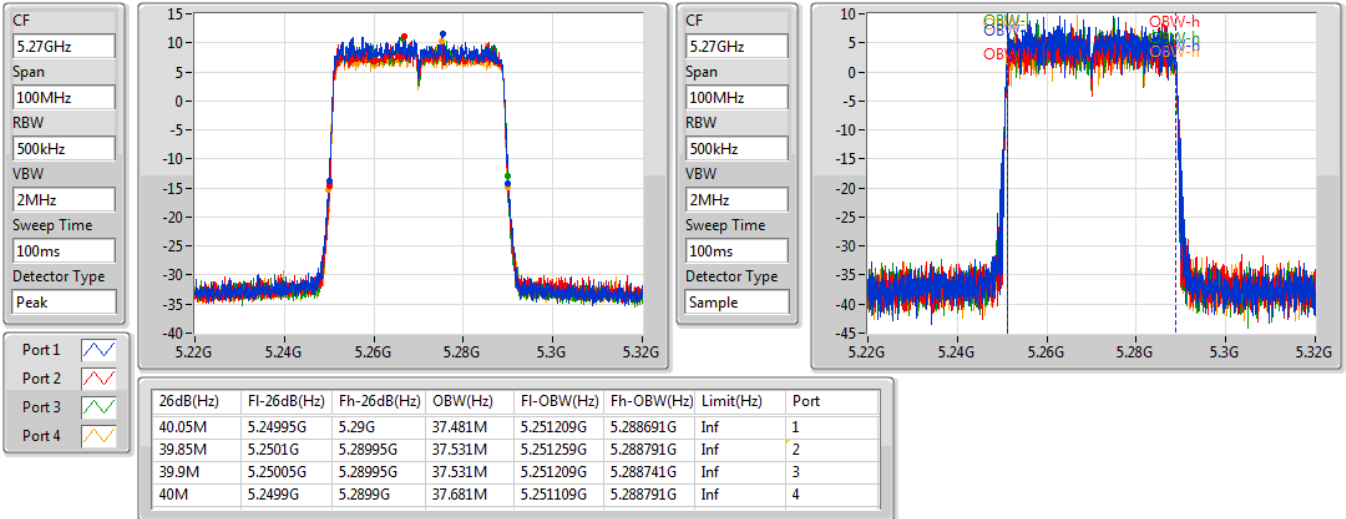


802.11ax HEW40_Nss1,(MCS0)_4TX

EBW

5270MHz

12/09/2019

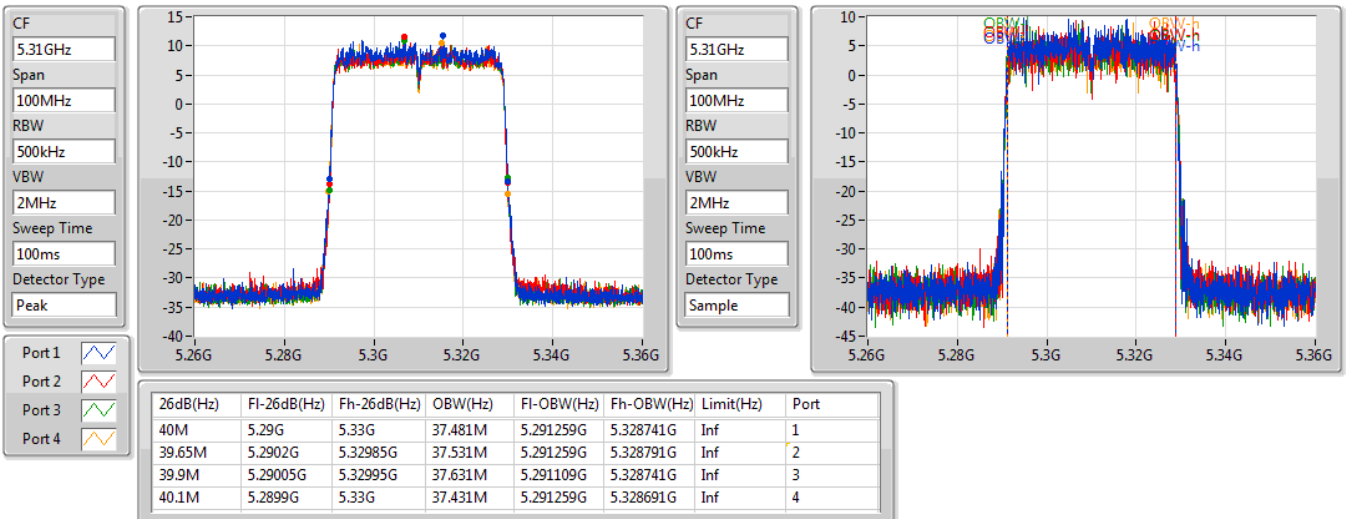


802.11ax HEW40_Nss1,(MCS0)_4TX

EBW

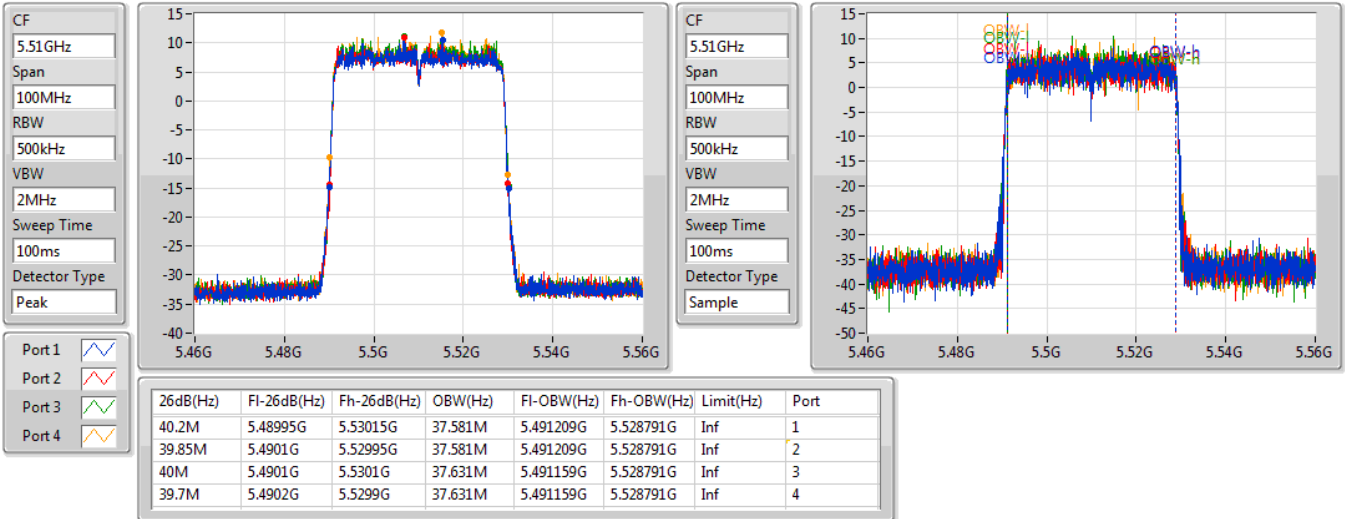
5310MHz

12/09/2019

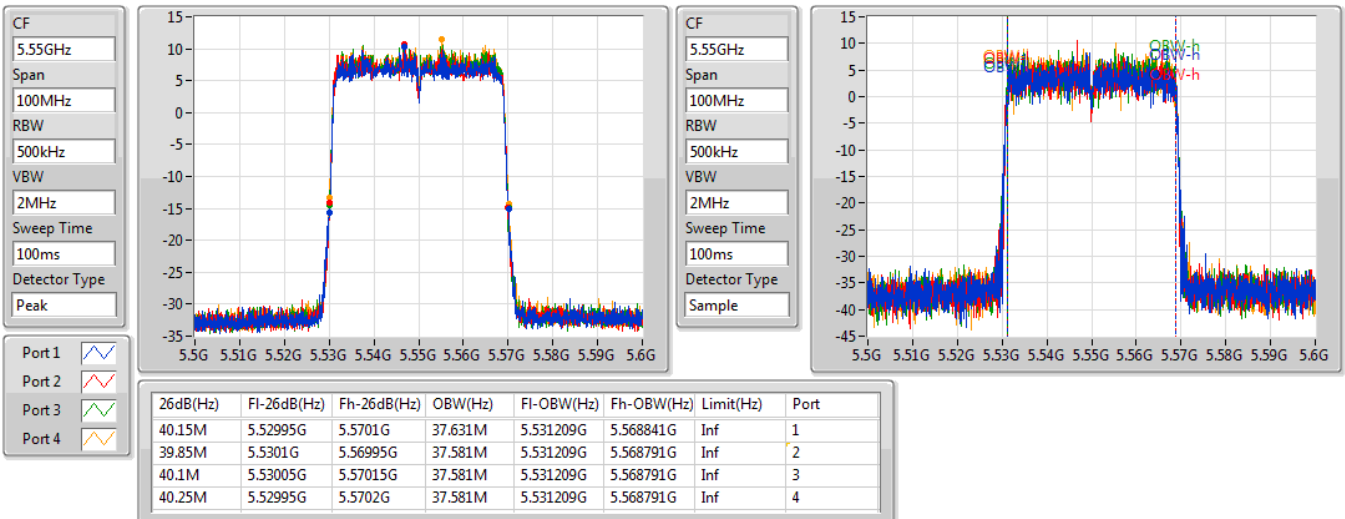


802.11ax HEW40_Nss1,(MCS0)_4TX
EBW
5510MHz

12/09/2019


802.11ax HEW40_Nss1,(MCS0)_4TX
EBW
5550MHz

12/09/2019

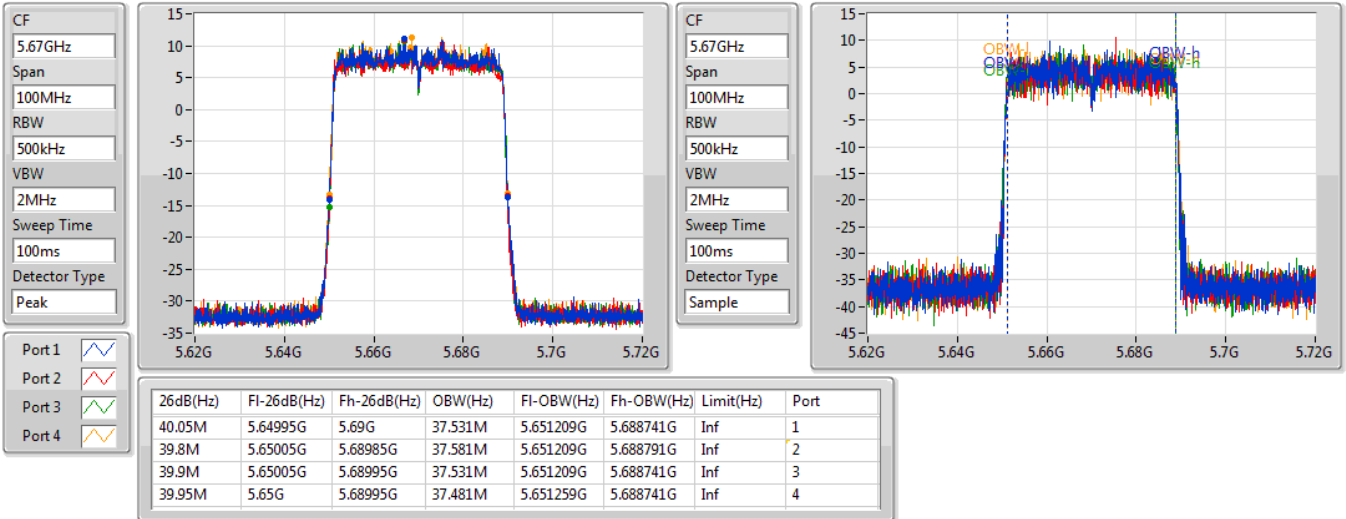


802.11ax HEW40_Nss1,(MCS0)_4TX

EBW

5670MHz

12/09/2019

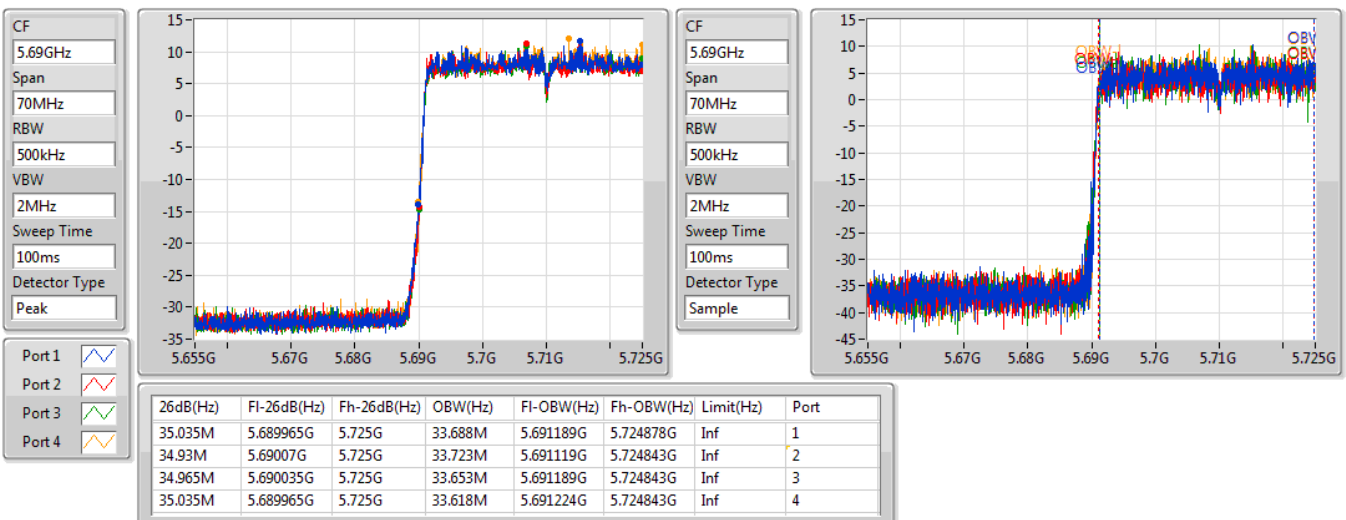


802.11ax HEW40_Nss1,(MCS0)_4TX

EBW

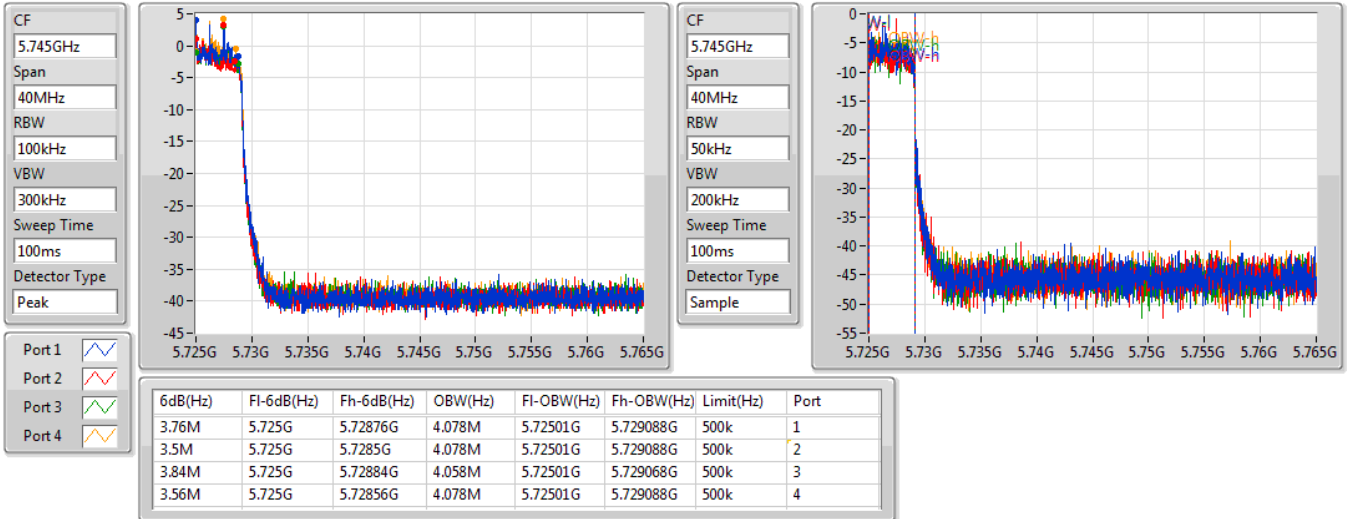
5710MHz Straddle 5.47-5.725GHz

12/09/2019

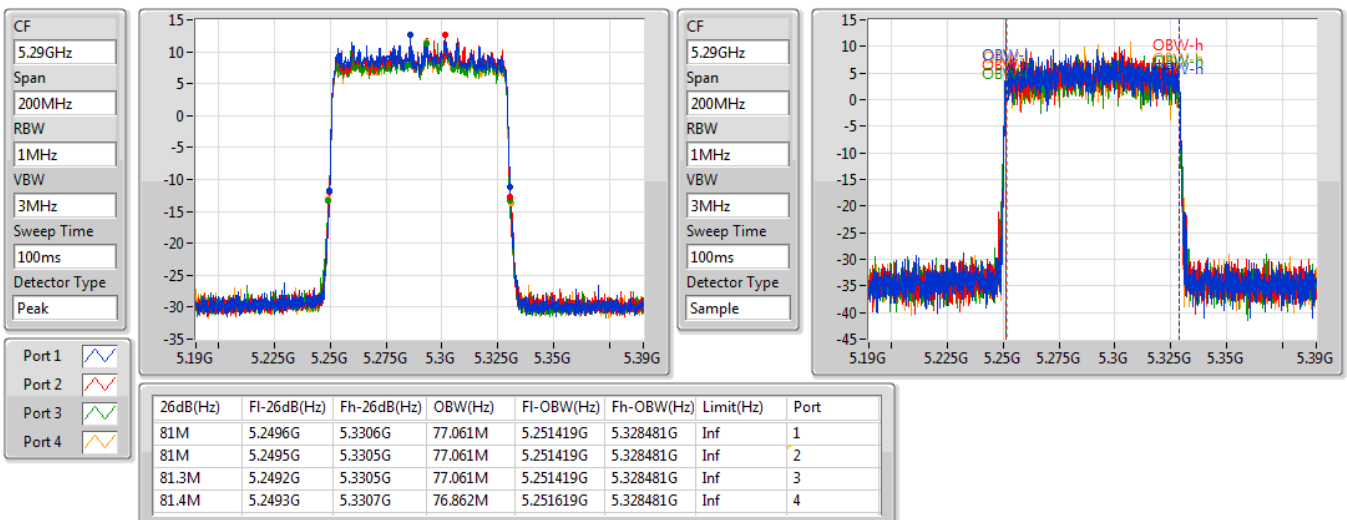


802.11ax HEW40_Nss1,(MCS0)_4TX
EBW
5710MHz Straddle 5.725-5.85GHz

12/09/2019

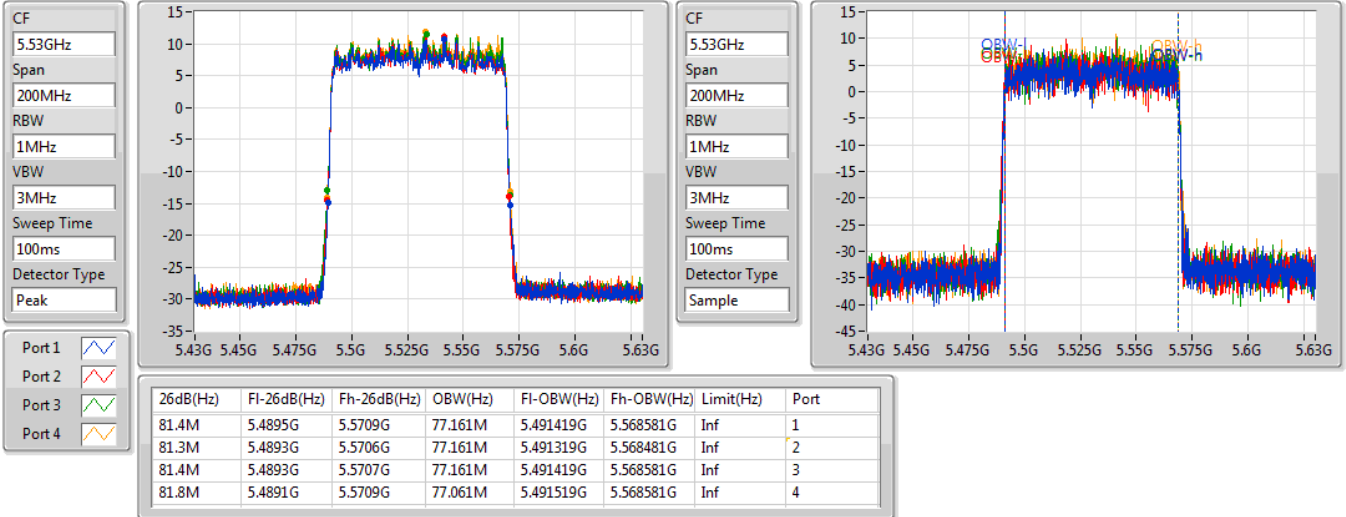

802.11ax HEW80_Nss1,(MCS0)_4TX
EBW
5290MHz

12/09/2019

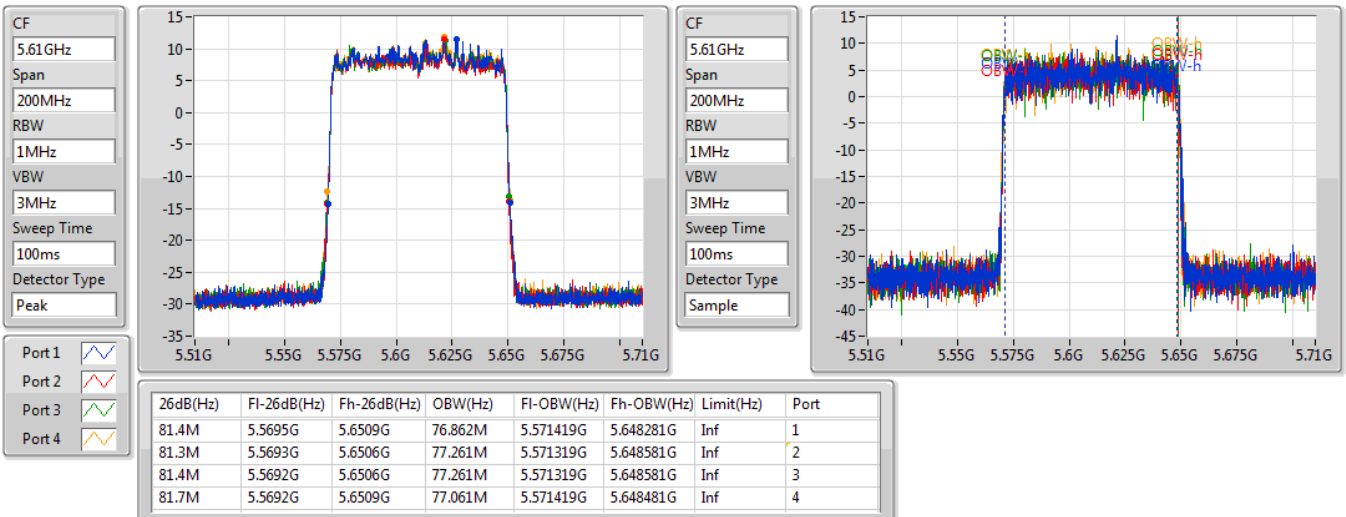


802.11ax HEW80_Nss1,(MCS0)_4TX
EBW
5530MHz

12/09/2019

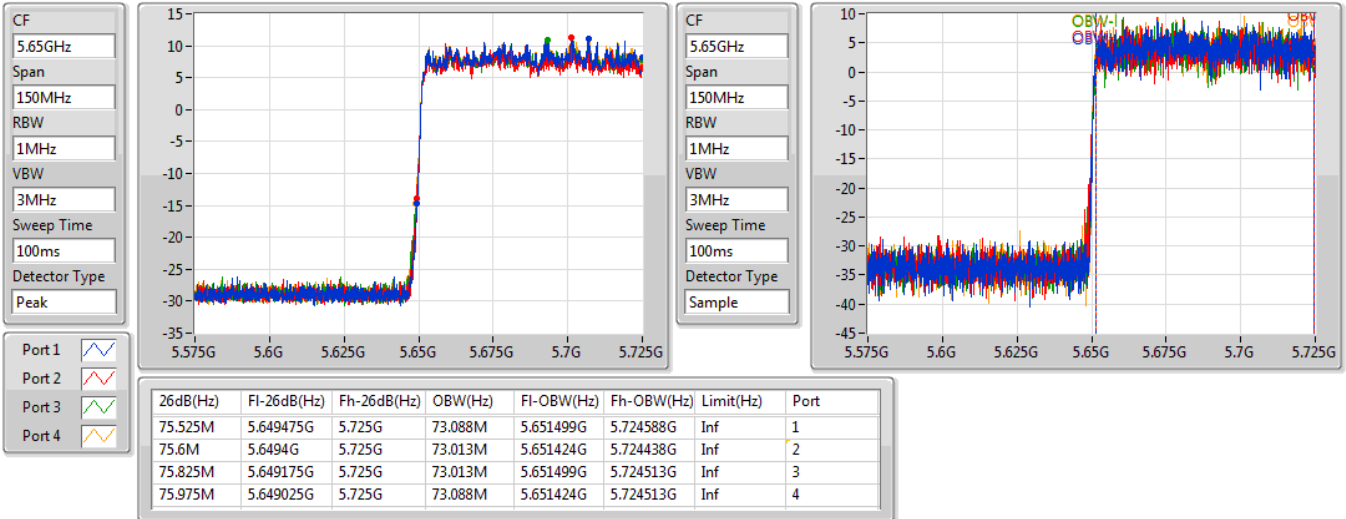

802.11ax HEW80_Nss1,(MCS0)_4TX
EBW
5610MHz

12/09/2019

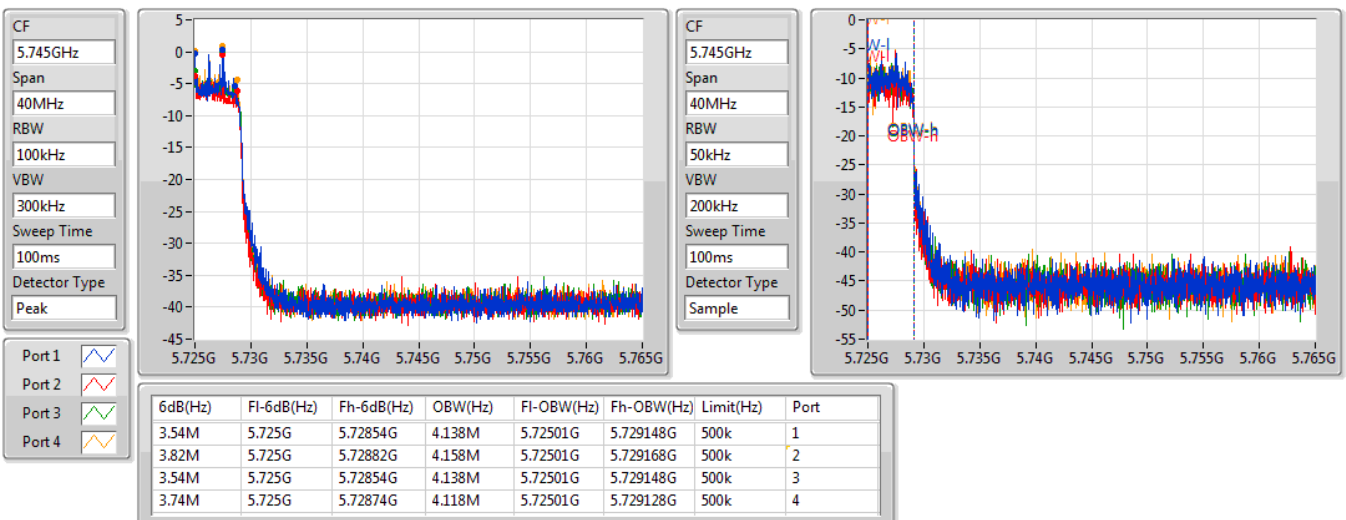


802.11ax HEW80_Nss1,(MCS0)_4TX
EBW
5690MHz Straddle 5.47-5.725GHz

12/09/2019

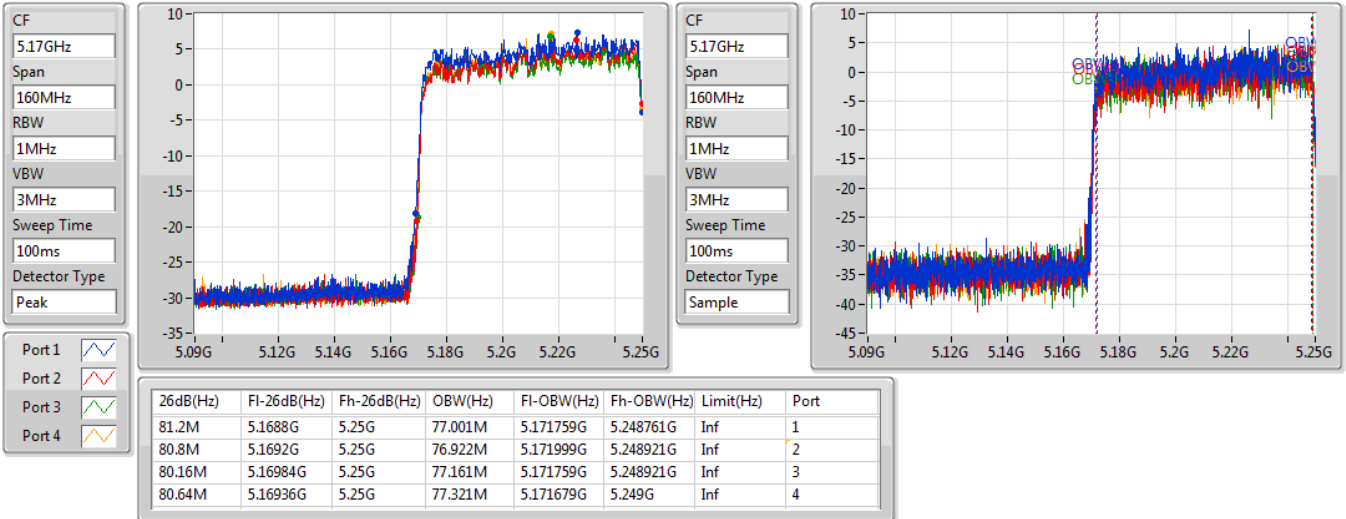

802.11ax HEW80_Nss1,(MCS0)_4TX
EBW
5690MHz Straddle 5.725-5.85GHz

12/09/2019

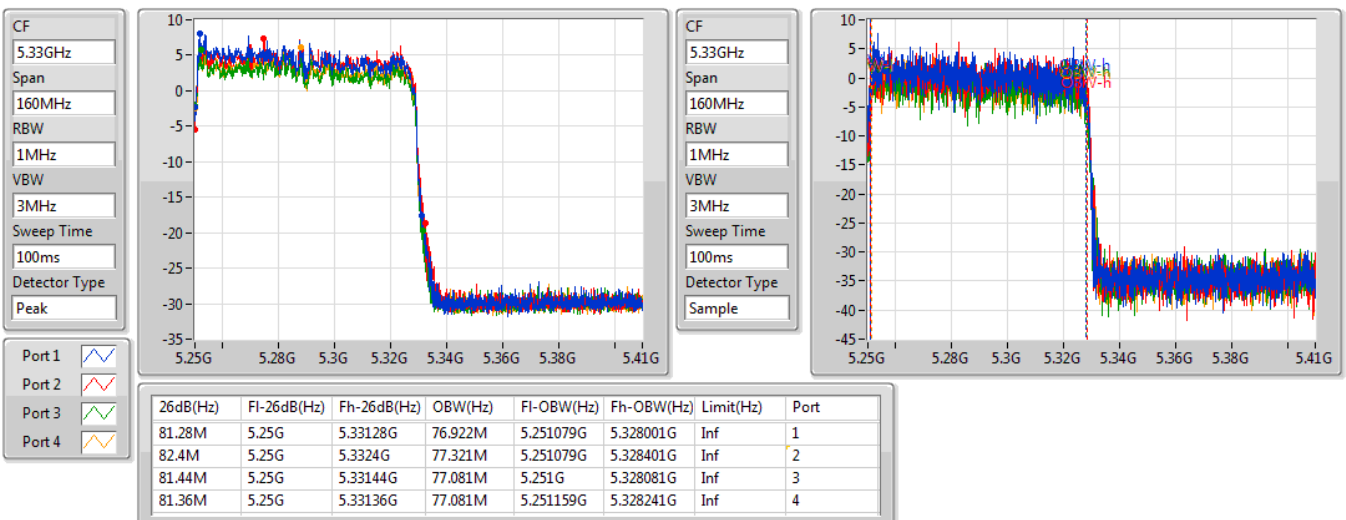


802.11ax HEW160_Nss1,(MCS0)_4TX
EBW
5250MHz Straddle 5.15-5.25GHz

12/09/2019


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

12/09/2019

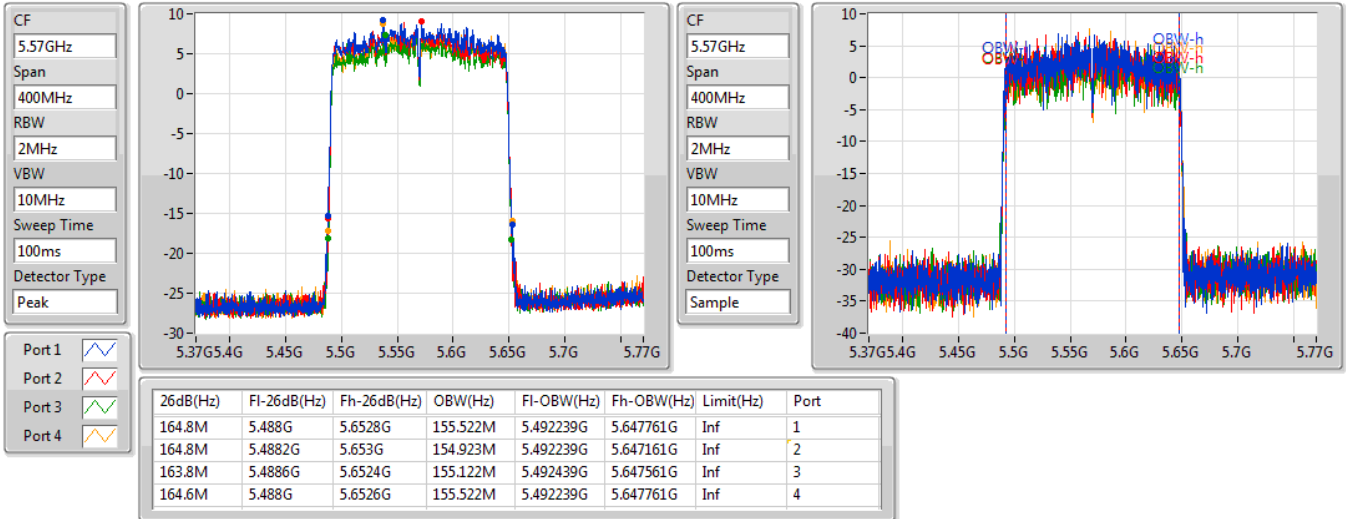


802.11ax HEW160_Nss1,(MCS0)_4TX

EBW

5570MHz

12/09/2019



Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.15-5.25GHz	-	-	-	-	-
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	81.2M	77.081M	77M1D1D	80.32M	76.762M
5.25-5.35GHz	-	-	-	-	-
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	21.81M	17.781M	17M8D1D	21.42M	17.751M
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	21.72M	19.04M	19M0D1D	21.42M	18.951M
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	40.26M	36.282M	36M3D1D	39.6M	36.102M
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	40.14M	37.601M	37M6D1D	39.78M	37.481M
802.11ac VHT80-BF_Nss1,(MCS0)_4TX	81.72M	77.001M	77M0D1D	81.12M	76.882M
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	81.72M	77.001M	77M0D1D	81.24M	76.762M
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	82M	77.241M	77M2D1D	80.8M	76.922M
5.47-5.725GHz	-	-	-	-	-
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	21.84M	17.841M	17M8D1D	15.66M	13.898M
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	21.81M	19.01M	19M0D1D	15.675M	14.498M
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	40.32M	37.601M	37M6D1D	34.93M	33.688M
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	40.2M	37.661M	37M7D1D	34.93M	33.618M
802.11ac VHT80-BF_Nss1,(MCS0)_4TX	82.2M	75.922M	75M9D1D	75.675M	72.414M
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	81.72M	77.121M	77M1D1D	75.525M	73.013M
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	164.64M	155.202M	155MD1D	163.68M	154.723M
5.725-5.85GHz	-	-	-	-	-
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	3.76M	4.298M	4M30D1D	3.68M	4.158M
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	4.52M	4.538M	4M54D1D	4.4M	4.498M
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	3.72M	4.018M	4M02D1D	3.18M	3.998M
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	3.72M	4.038M	4M04D1D	3.54M	4.018M
802.11ac VHT80-BF_Nss1,(MCS0)_4TX	3.12M	3.598M	3M60D1D	3.08M	3.478M
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	3.7M	4.038M	4M04D1D	3.5M	4.018M

Max-N dB = Maximum 6dB down bandwidth; **Max-OBW** = Maximum 99% occupied bandwidth;

Min-N dB = Minimum 6dB down bandwidth; **Min-OBW** = Minimum 99% occupied bandwidth;

Result

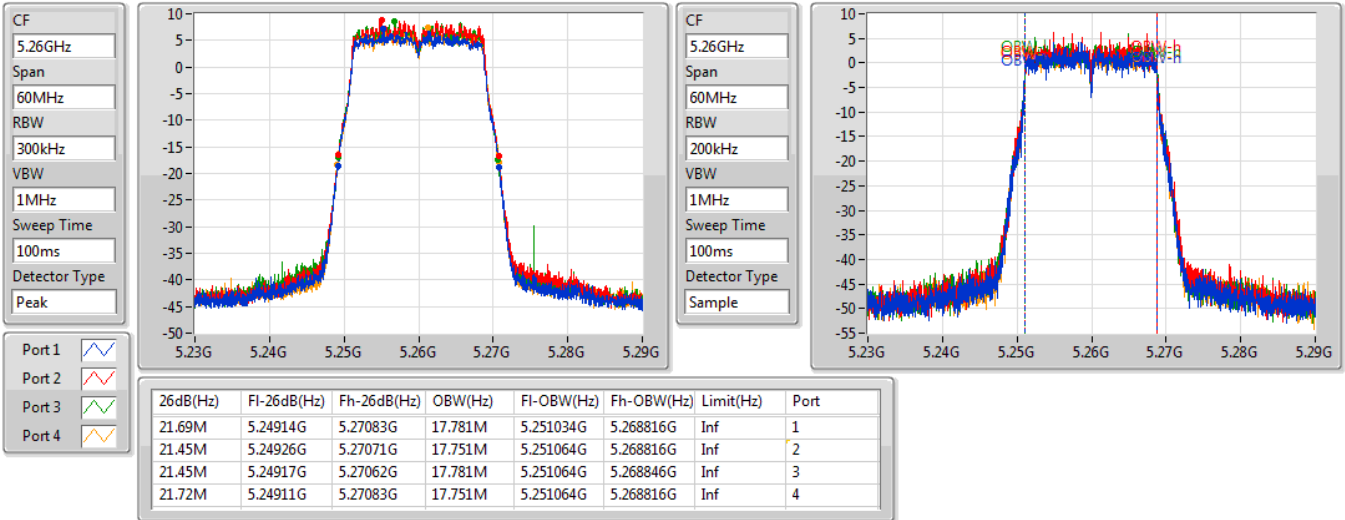
Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)	Port 3-N dB (Hz)	Port 3-OBW (Hz)	Port 4-N dB (Hz)	Port 4-OBW (Hz)
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5260MHz	Pass	Inf	21.69M	17.781M	21.45M	17.751M	21.45M	17.781M	21.72M	17.751M
5300MHz	Pass	Inf	21.78M	17.751M	21.57M	17.751M	21.45M	17.781M	21.78M	17.751M
5320MHz	Pass	Inf	21.81M	17.781M	21.6M	17.751M	21.42M	17.781M	21.72M	17.751M
5500MHz	Pass	Inf	21.75M	17.781M	21.63M	17.781M	21.45M	17.781M	21.75M	17.781M
5580MHz	Pass	Inf	21.72M	17.841M	21.54M	17.751M	21.66M	17.781M	21.72M	17.781M
5700MHz	Pass	Inf	21.69M	17.781M	21.63M	17.781M	21.51M	17.781M	21.84M	17.841M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	15.72M	13.898M	15.66M	13.958M	15.72M	13.913M	15.78M	13.943M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	3.76M	4.298M	3.68M	4.198M	3.76M	4.158M	3.74M	4.198M
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5260MHz	Pass	Inf	21.57M	19.01M	21.54M	18.981M	21.72M	18.981M	21.72M	18.981M
5300MHz	Pass	Inf	21.69M	19.01M	21.57M	18.981M	21.72M	18.981M	21.72M	18.981M
5320MHz	Pass	Inf	21.45M	19.04M	21.42M	18.951M	21.72M	18.951M	21.69M	18.981M
5500MHz	Pass	Inf	21.69M	18.951M	21.66M	19.01M	21.69M	18.951M	21.63M	18.981M
5580MHz	Pass	Inf	21.72M	18.951M	21.57M	18.951M	21.78M	18.981M	21.75M	18.951M
5700MHz	Pass	Inf	21.66M	19.01M	21.54M	18.981M	21.69M	18.981M	21.81M	18.981M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	15.825M	14.498M	15.675M	14.498M	15.735M	14.498M	15.75M	14.498M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	4.4M	4.518M	4.44M	4.498M	4.42M	4.518M	4.52M	4.538M
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5270MHz	Pass	Inf	40.26M	36.282M	39.6M	36.222M	40.08M	36.282M	39.9M	36.222M
5310MHz	Pass	Inf	40.2M	36.222M	39.84M	36.102M	40.26M	36.282M	39.78M	36.222M
5510MHz	Pass	Inf	40.32M	36.282M	39.9M	36.222M	40.14M	36.282M	39.9M	36.282M
5550MHz	Pass	Inf	40.08M	37.541M	39.84M	37.601M	39.96M	37.601M	40.02M	37.601M
5670MHz	Pass	Inf	40.08M	37.601M	39.78M	37.601M	39.84M	37.541M	40.14M	37.541M
5710MHz Straddle 5.47-5.725GHz	Pass	Inf	35.14M	33.723M	34.965M	33.688M	34.93M	33.688M	35.07M	33.723M
5710MHz Straddle 5.725-5.85GHz	Pass	500k	3.72M	4.018M	3.18M	3.998M	3.68M	4.018M	3.54M	3.998M
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5270MHz	Pass	Inf	40.14M	37.601M	39.84M	37.481M	39.96M	37.541M	40.02M	37.541M
5310MHz	Pass	Inf	40.14M	37.481M	39.84M	37.541M	39.78M	37.601M	40.14M	37.601M
5510MHz	Pass	Inf	40.2M	37.601M	39.84M	37.541M	39.96M	37.661M	39.96M	37.481M
5550MHz	Pass	Inf	40.08M	37.601M	39.84M	37.661M	39.96M	37.601M	40.08M	37.541M
5670MHz	Pass	Inf	40.08M	37.541M	39.72M	37.601M	39.9M	37.361M	39.96M	37.481M
5710MHz Straddle 5.47-5.725GHz	Pass	Inf	35.105M	33.688M	34.93M	33.653M	34.965M	33.618M	35.07M	33.688M
5710MHz Straddle 5.725-5.85GHz	Pass	500k	3.72M	4.018M	3.56M	4.018M	3.72M	4.018M	3.54M	4.038M
802.11ac VHT80-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5290MHz	Pass	Inf	81.36M	77.001M	81.12M	76.882M	81.6M	77.001M	81.72M	76.882M
5530MHz	Pass	Inf	81.96M	75.562M	81.48M	75.802M	81.84M	75.802M	81.84M	75.802M
5610MHz	Pass	Inf	82.2M	75.682M	81.48M	75.802M	81.36M	75.922M	82.08M	75.802M
5690MHz Straddle 5.47-5.725GHz	Pass	Inf	76.125M	72.414M	75.675M	72.489M	75.675M	72.564M	75.975M	72.489M
5690MHz Straddle 5.725-5.85GHz	Pass	500k	3.08M	3.598M	3.12M	3.598M	3.1M	3.518M	3.1M	3.478M
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5290MHz	Pass	Inf	81.36M	77.001M	81.24M	77.001M	81.48M	77.001M	81.72M	76.762M
5530MHz	Pass	Inf	81.24M	77.001M	81.12M	77.001M	81.48M	77.001M	81.72M	77.001M
5610MHz	Pass	Inf	81.36M	77.121M	81.48M	76.882M	81.6M	77.121M	81.72M	77.121M

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)	Port 3-N dB (Hz)	Port 3-OBW (Hz)	Port 4-N dB (Hz)	Port 4-OBW (Hz)
5690MHz Straddle 5.47-5.725GHz	Pass	Inf	75.525M	73.238M	75.825M	73.013M	75.9M	73.163M	75.9M	73.013M
5690MHz Straddle 5.725-5.85GHz	Pass	500k	3.5M	4.038M	3.54M	4.018M	3.7M	4.038M	3.52M	4.038M
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	Inf	81.2M	77.081M	80.48M	76.762M	80.32M	77.081M	80.64M	77.081M
5250MHz Straddle 5.25-5.35GHz	Pass	Inf	81.04M	76.922M	82M	77.241M	80.8M	77.001M	81.28M	77.001M
5570MHz	Pass	Inf	164.16M	154.723M	164.64M	155.202M	163.68M	154.723M	164.64M	154.723M

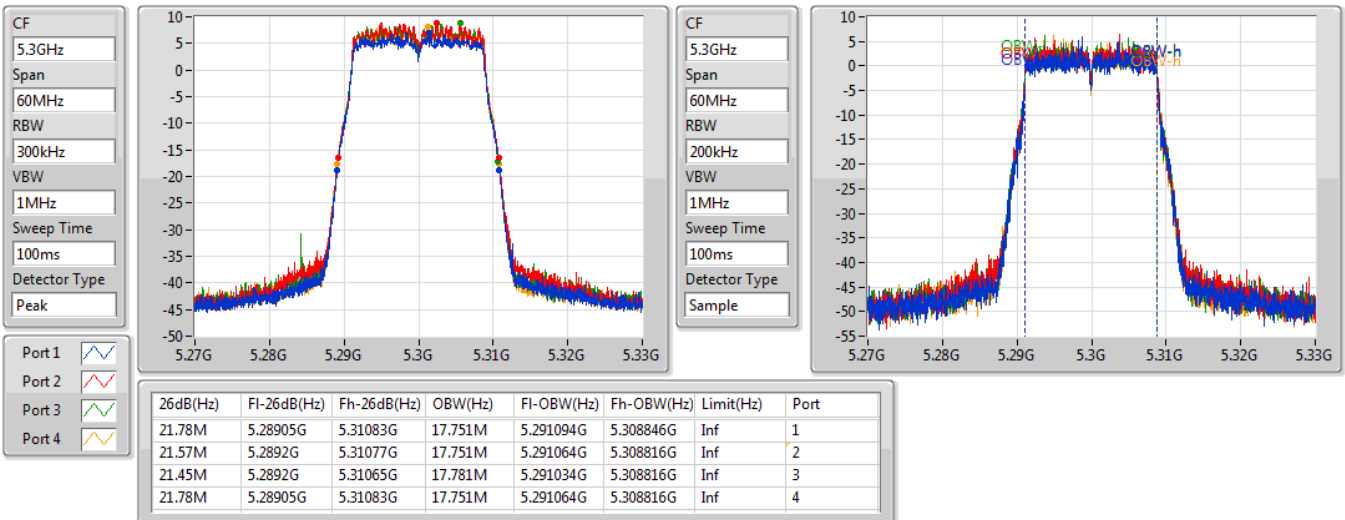
Port X-N dB = Port X 6dB down bandwidth; **Port X-OBW** = Port X 99% occupied bandwidth;

802.11ac VHT20-BF_Nss1,(MCS0)_4TX
EBW
5260MHz

19/09/2019

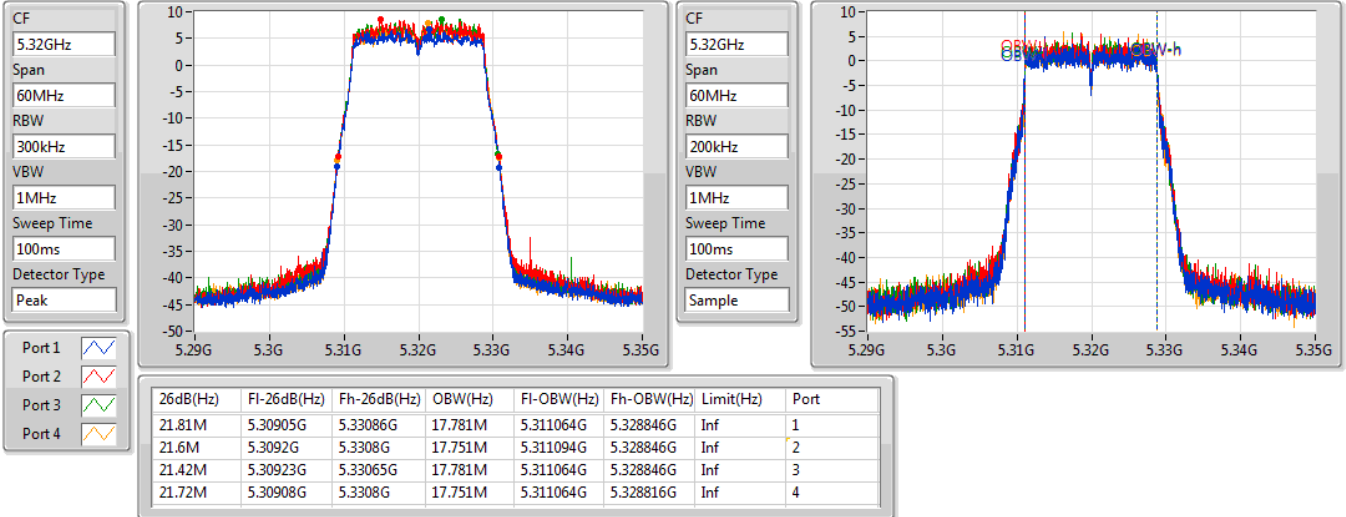

802.11ac VHT20-BF_Nss1,(MCS0)_4TX
EBW
5300MHz

19/09/2019

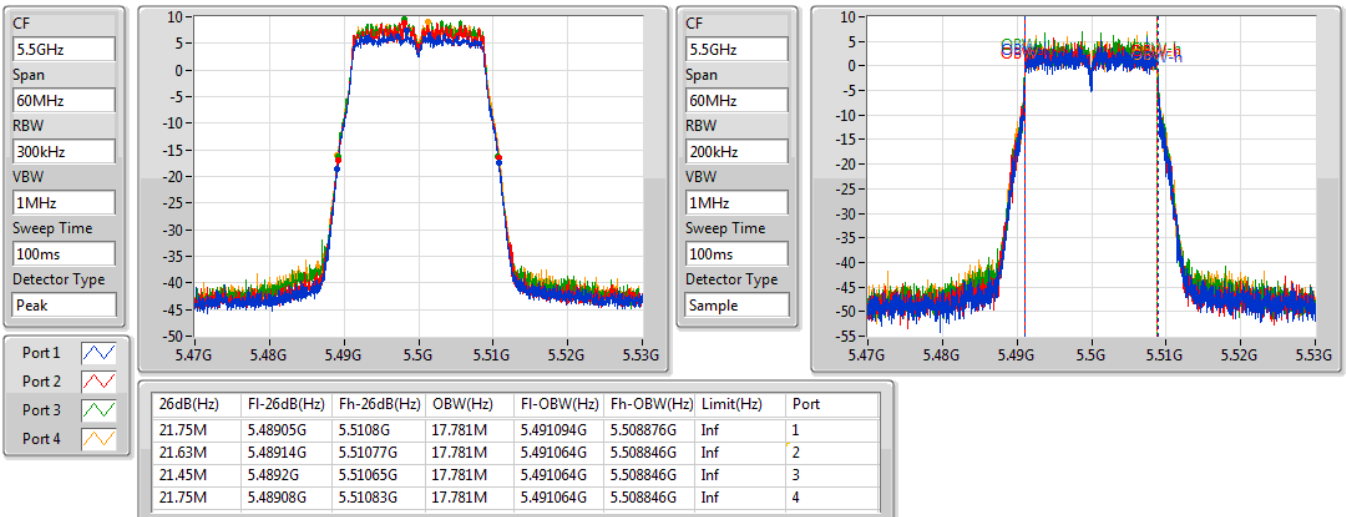


802.11ac VHT20-BF_Nss1,(MCS0)_4TX
EBW
5320MHz

19/09/2019

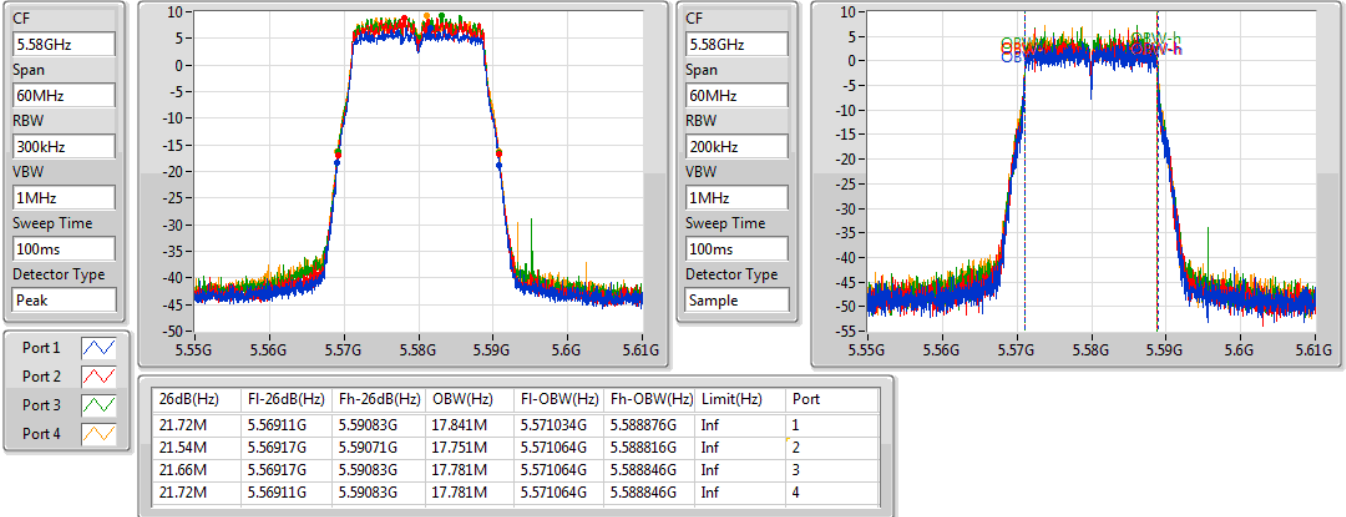

802.11ac VHT20-BF_Nss1,(MCS0)_4TX
EBW
5500MHz

19/09/2019

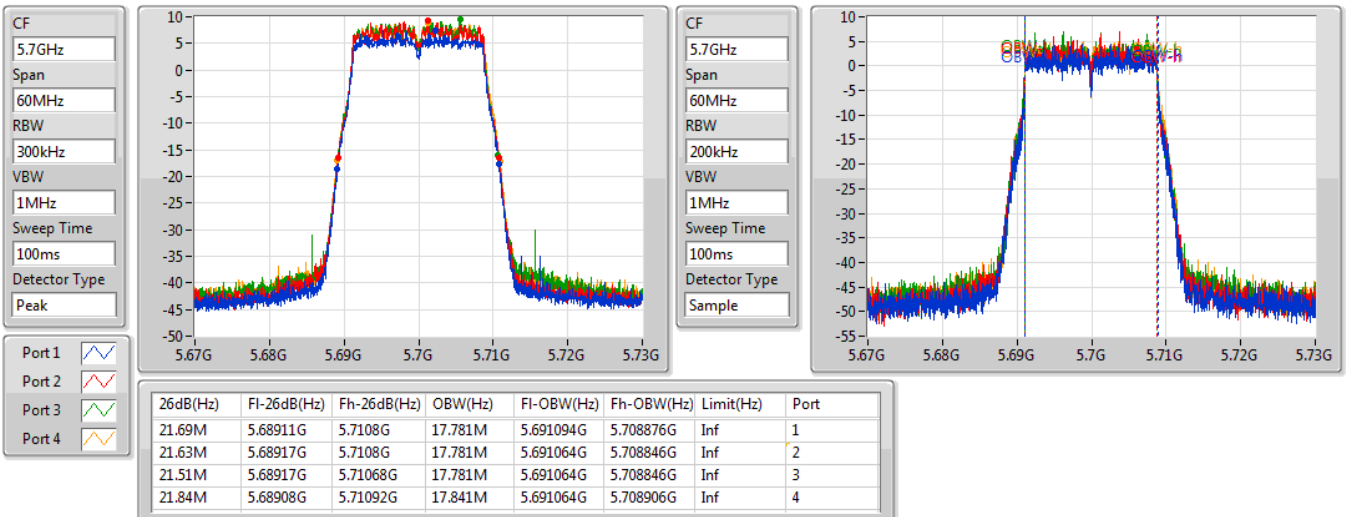


802.11ac VHT20-BF_Nss1,(MCS0)_4TX
EBW
5580MHz

19/09/2019

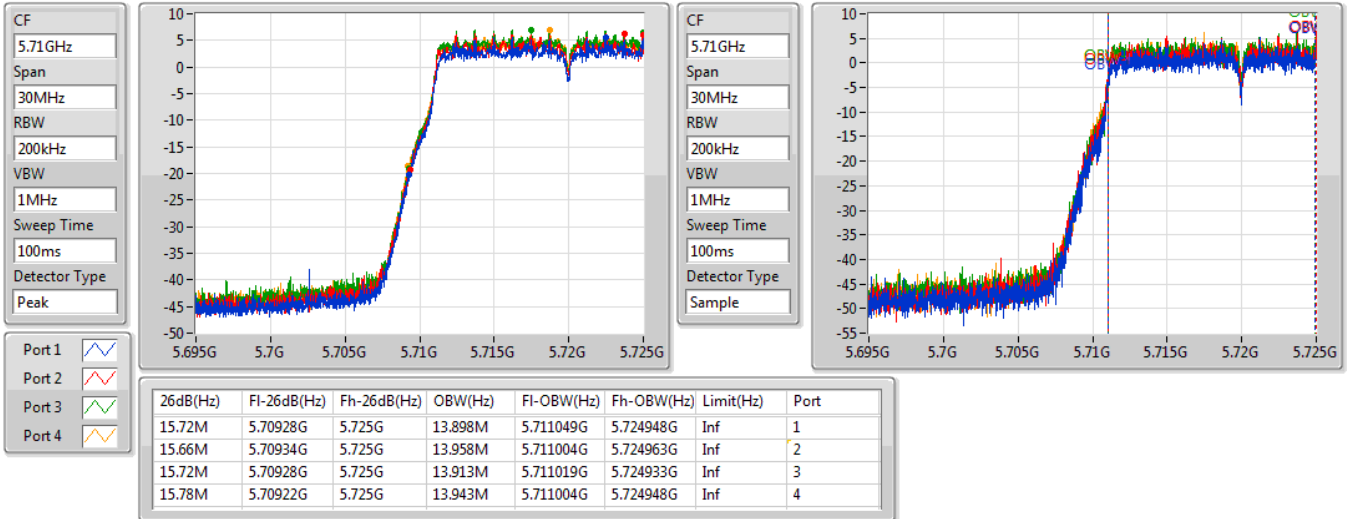

802.11ac VHT20-BF_Nss1,(MCS0)_4TX
EBW
5700MHz

19/09/2019

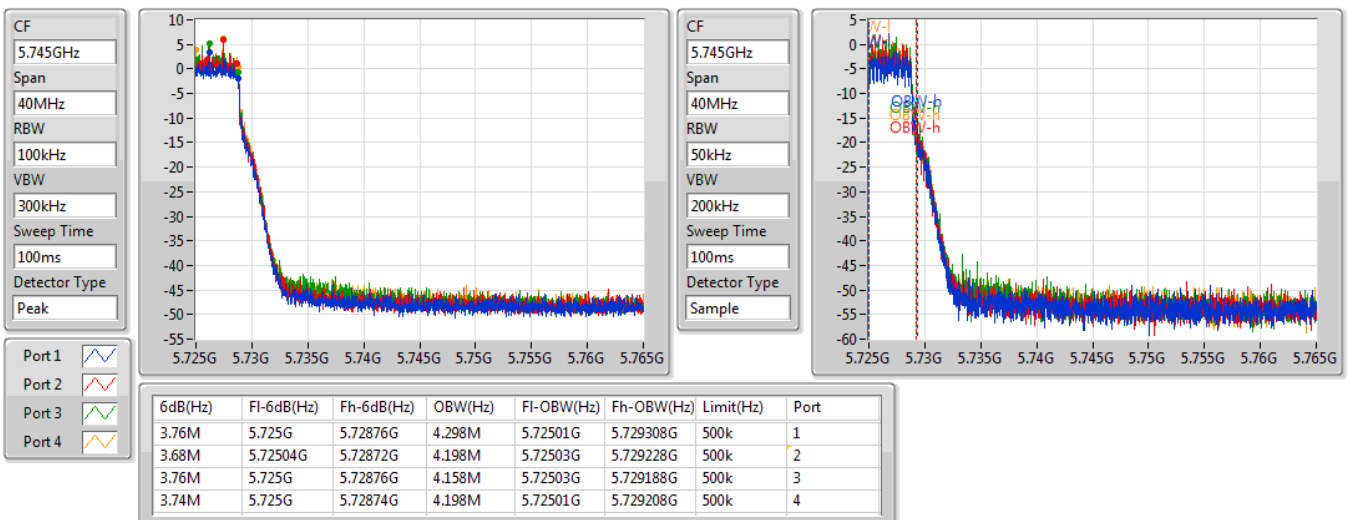


802.11ac VHT20-BF_Nss1,(MCS0)_4TX
EBW
5720MHz Straddle 5.47-5.725GHz

19/09/2019

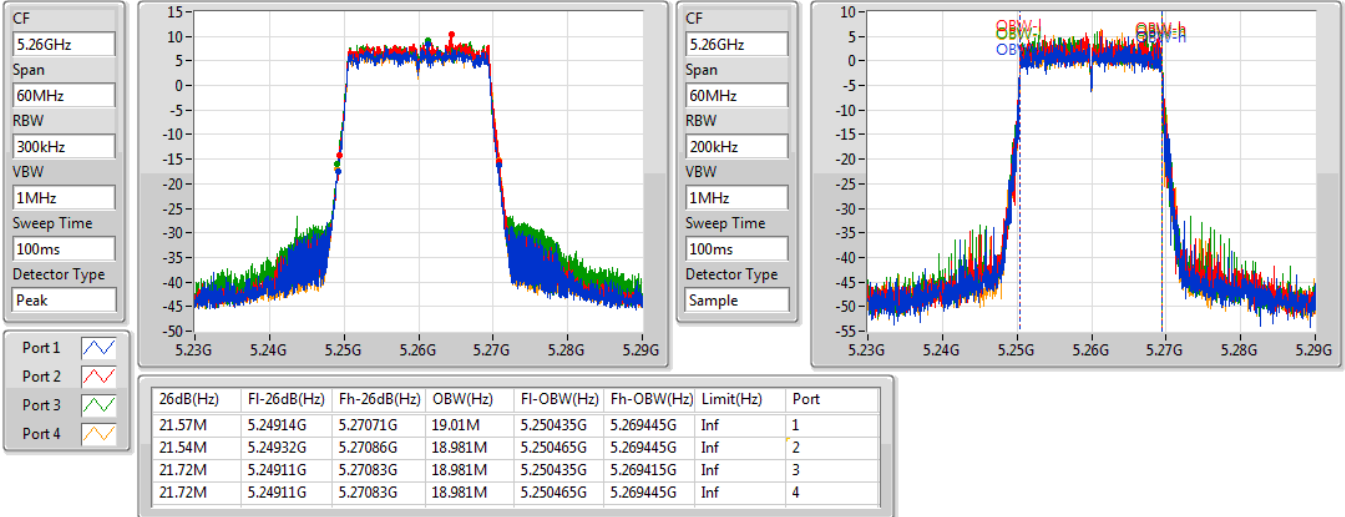

802.11ac VHT20-BF_Nss1,(MCS0)_4TX
EBW
5720MHz Straddle 5.725-5.85GHz

19/09/2019

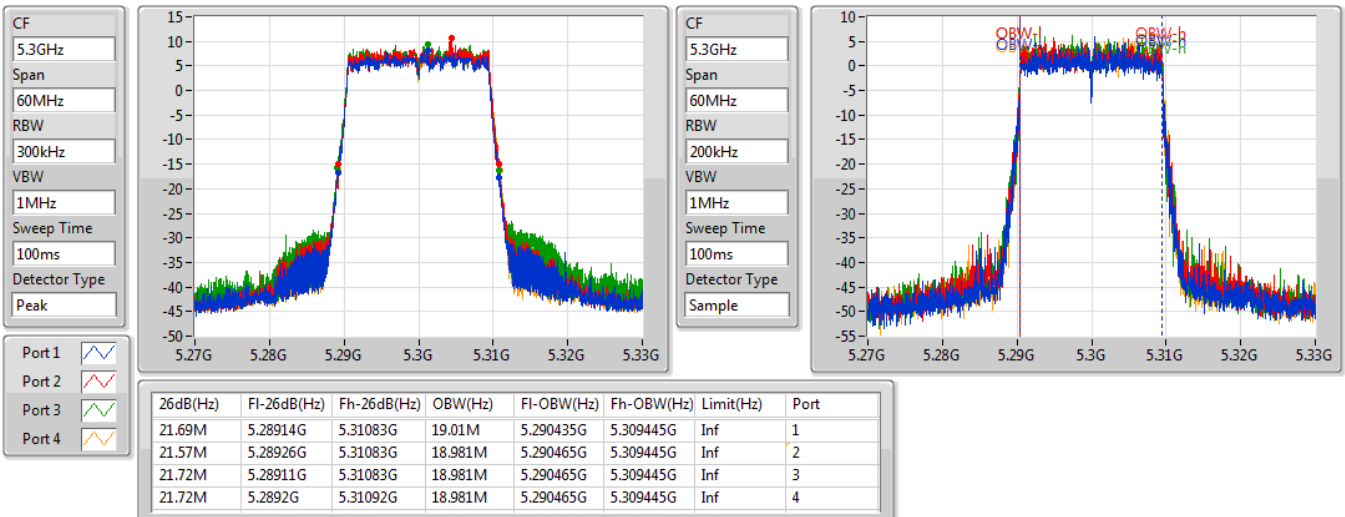


802.11ax HEW20-BF_Nss1,(MCS0)_4TX
EBW
5260MHz

19/09/2019


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

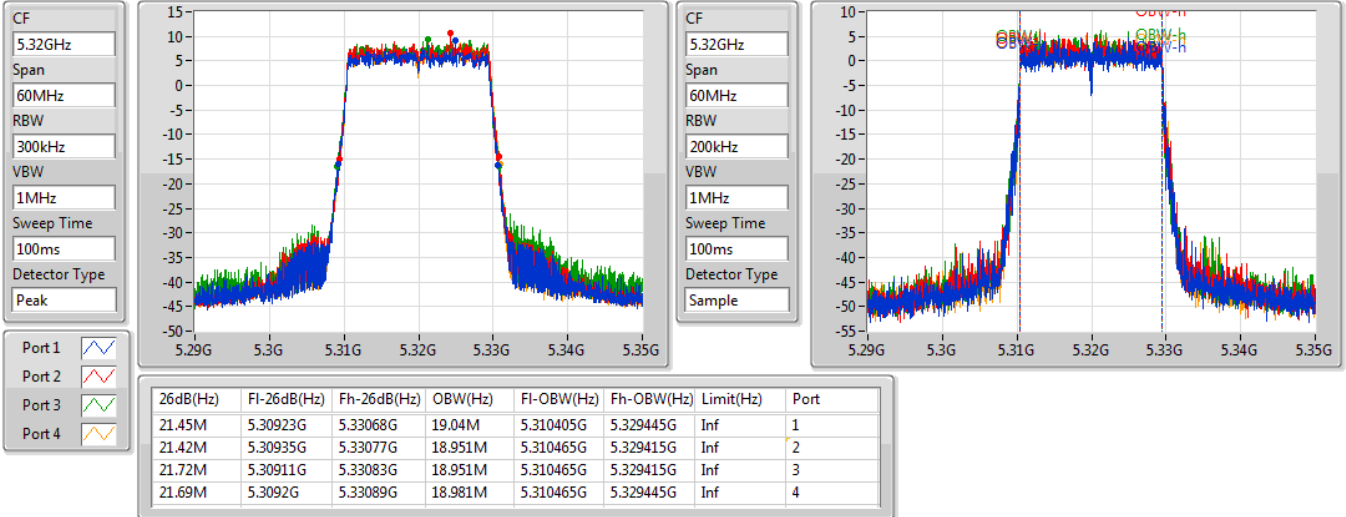
19/09/2019



802.11ax HEW20-BF_Nss1,(MCS0)_4TX

EBW
5320MHz

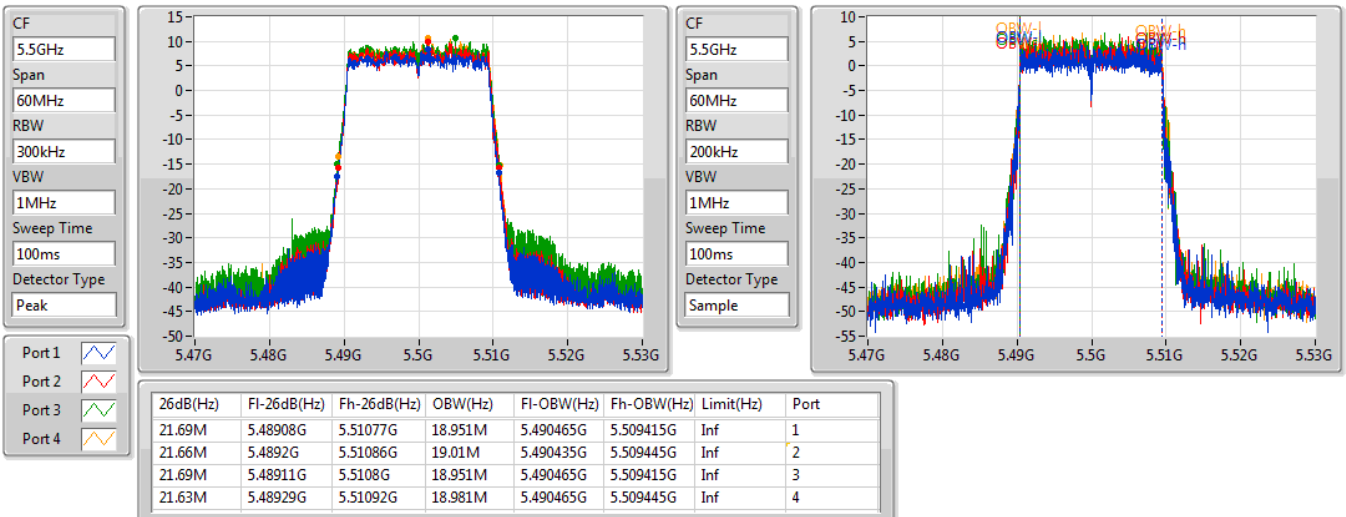
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802.11ax HEW20-BF_Nss1,(MCS0)_4TX

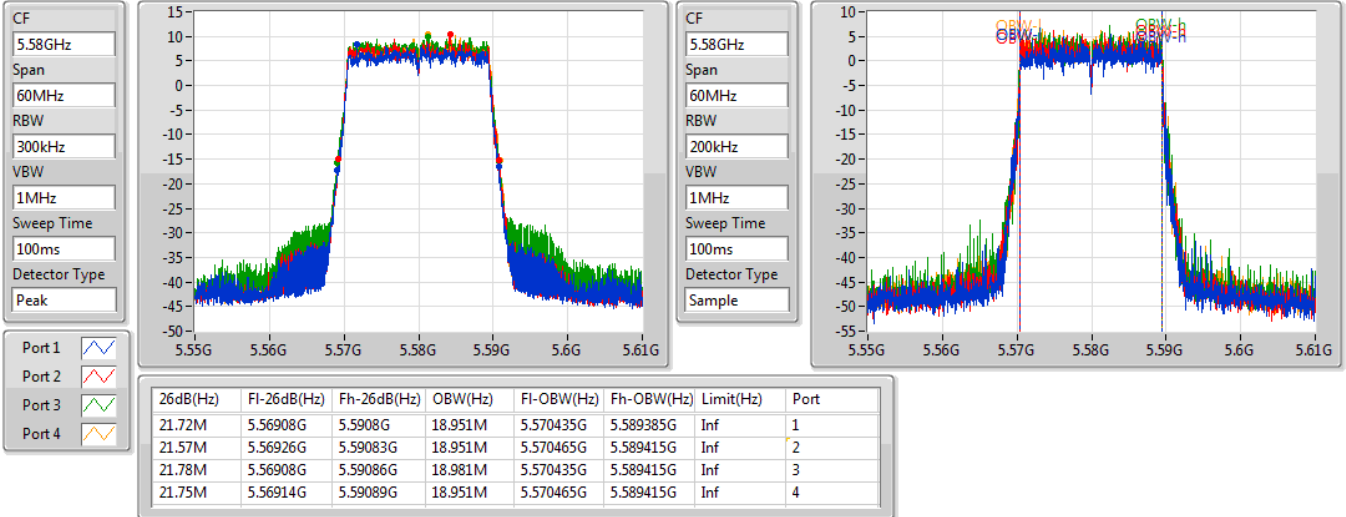
EBW
5500MHz

19/09/2019

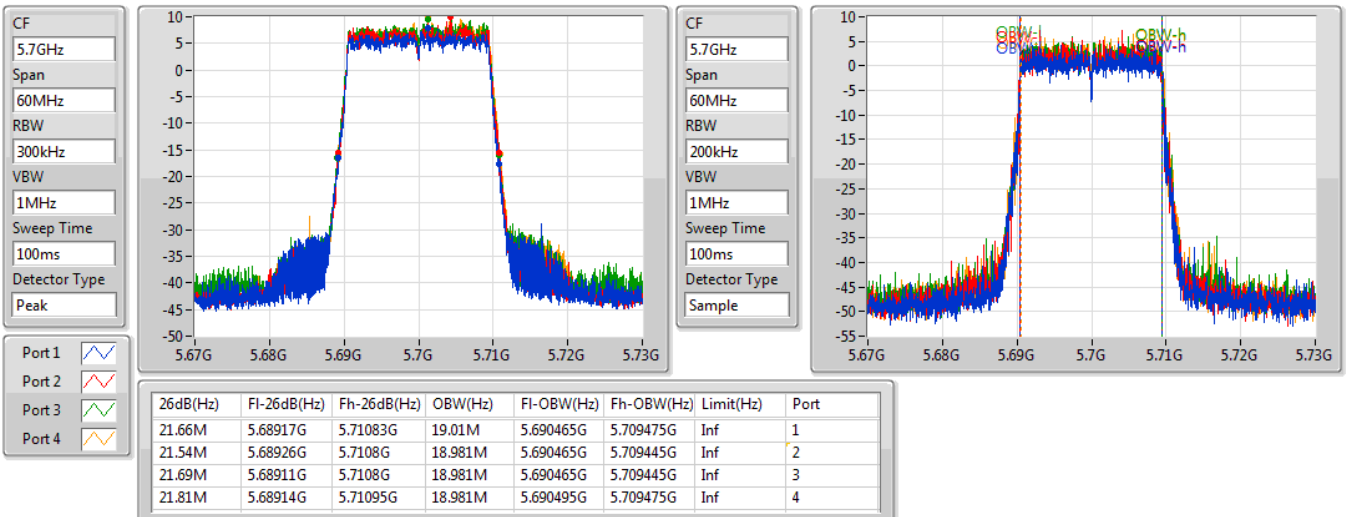


802.11ax HEW20-BF_Nss1,(MCS0)_4TX
EBW
5580MHz

19/09/2019

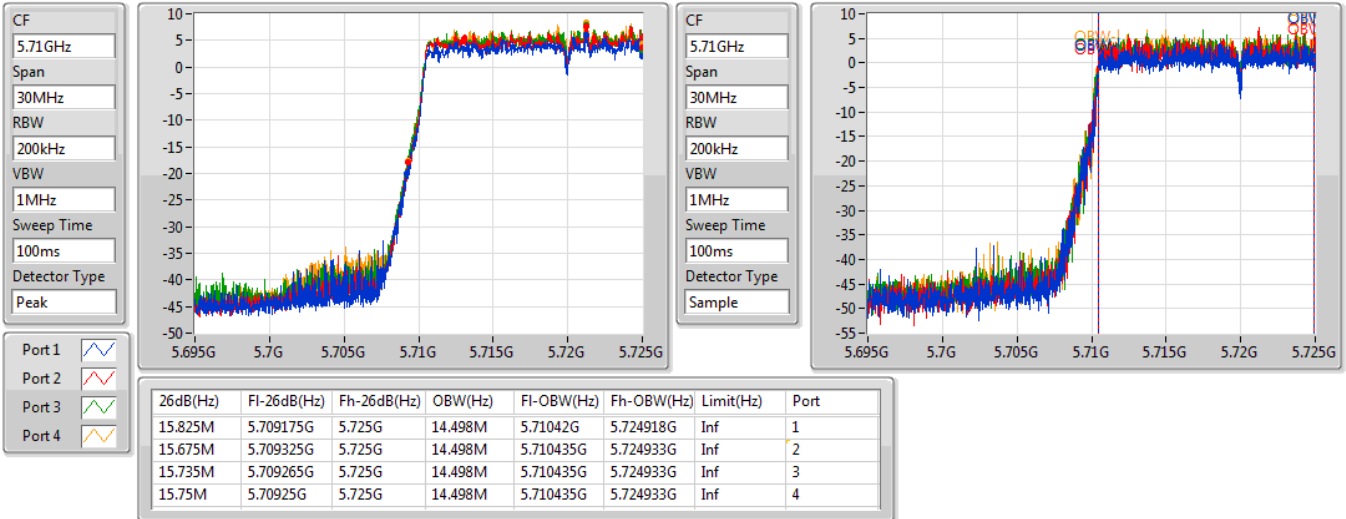

802.11ax HEW20-BF_Nss1,(MCS0)_4TX
EBW
5700MHz

19/09/2019

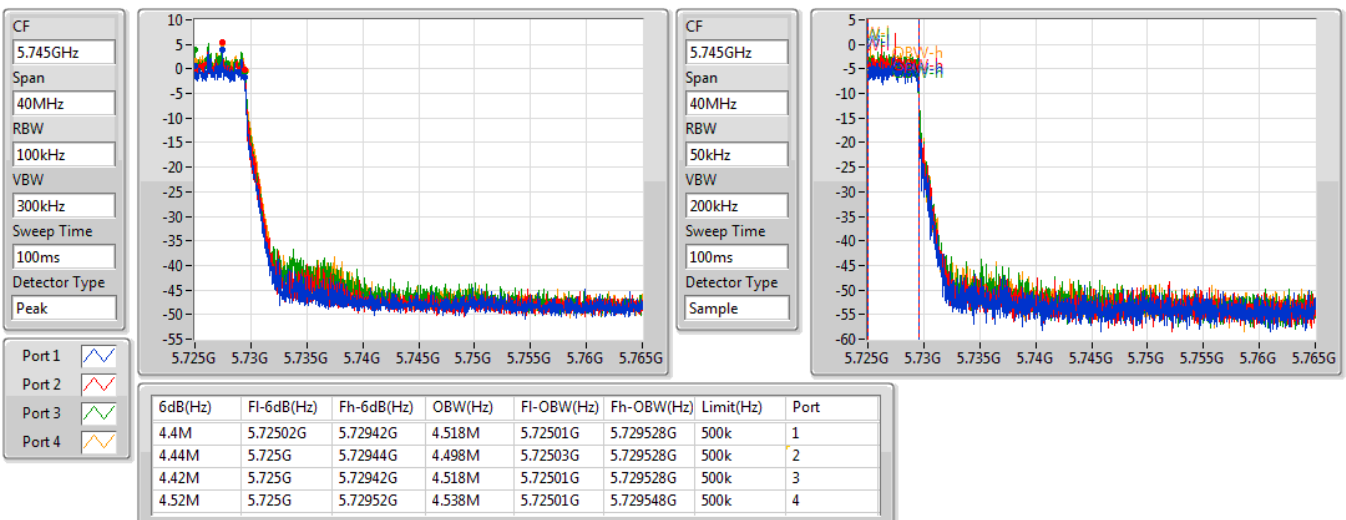


802.11ax HEW20-BF_Nss1,(MCS0)_4TX
EBW
5720MHz Straddle 5.47-5.725GHz

19/09/2019


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

19/09/2019

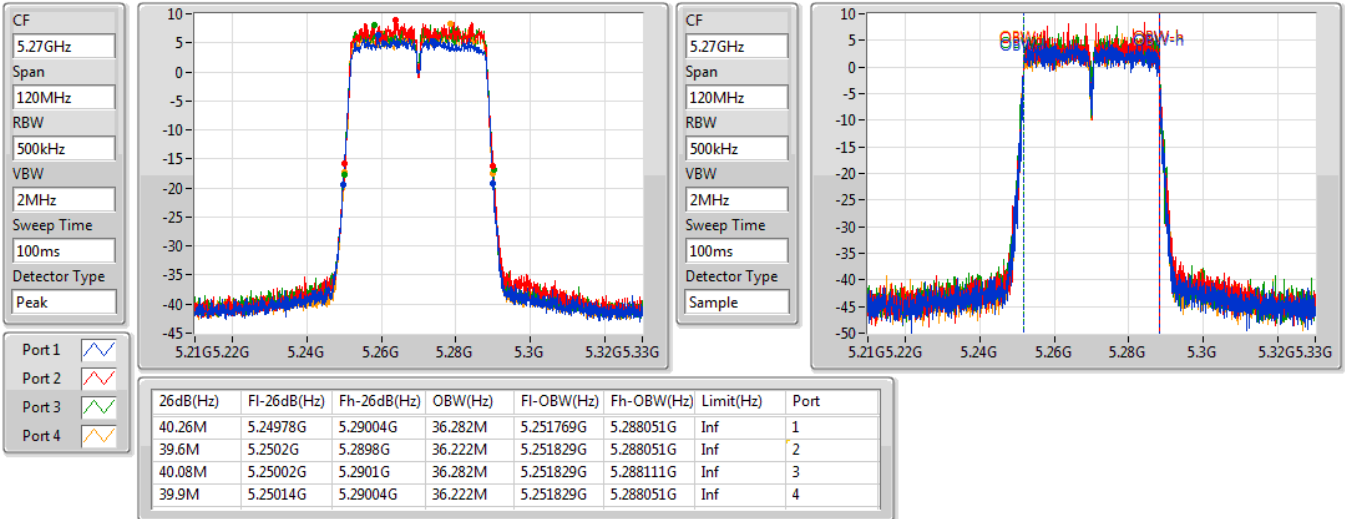


802.11ac VHT40-BF_Nss1,(MCS0)_4TX

EBW

5270MHz

19/09/2019

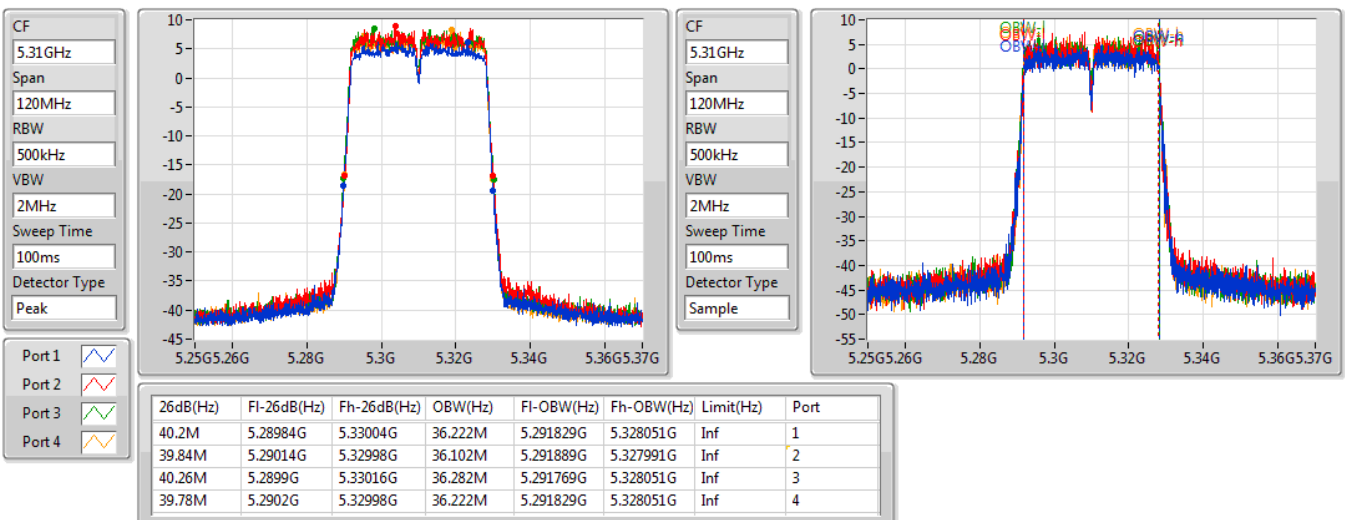


802.11ac VHT40-BF_Nss1,(MCS0)_4TX

EBW

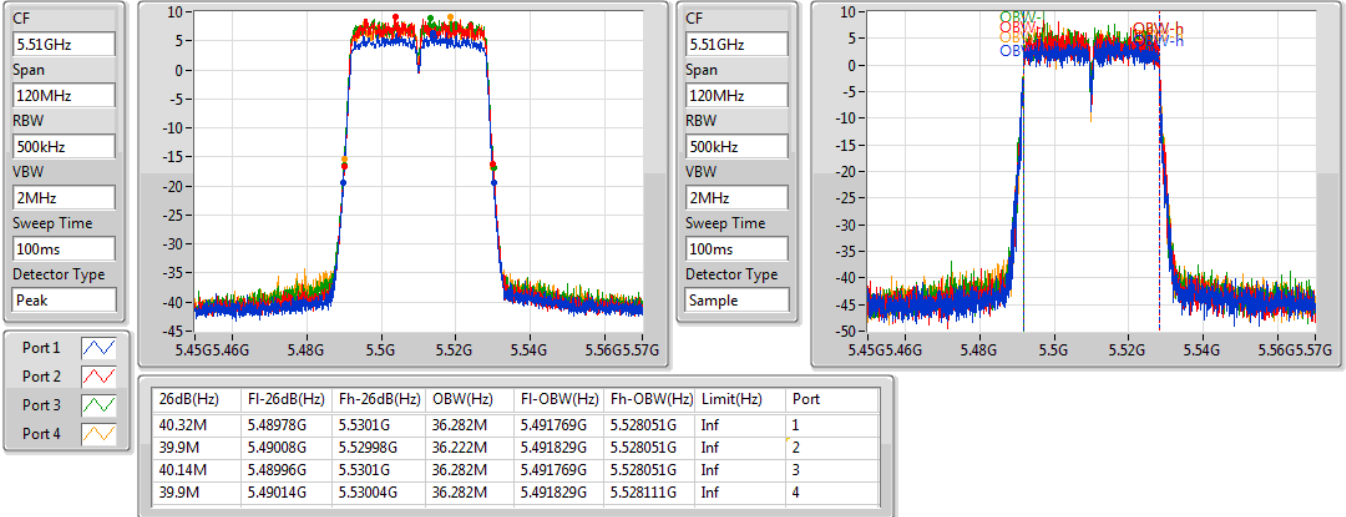
5310MHz

19/09/2019

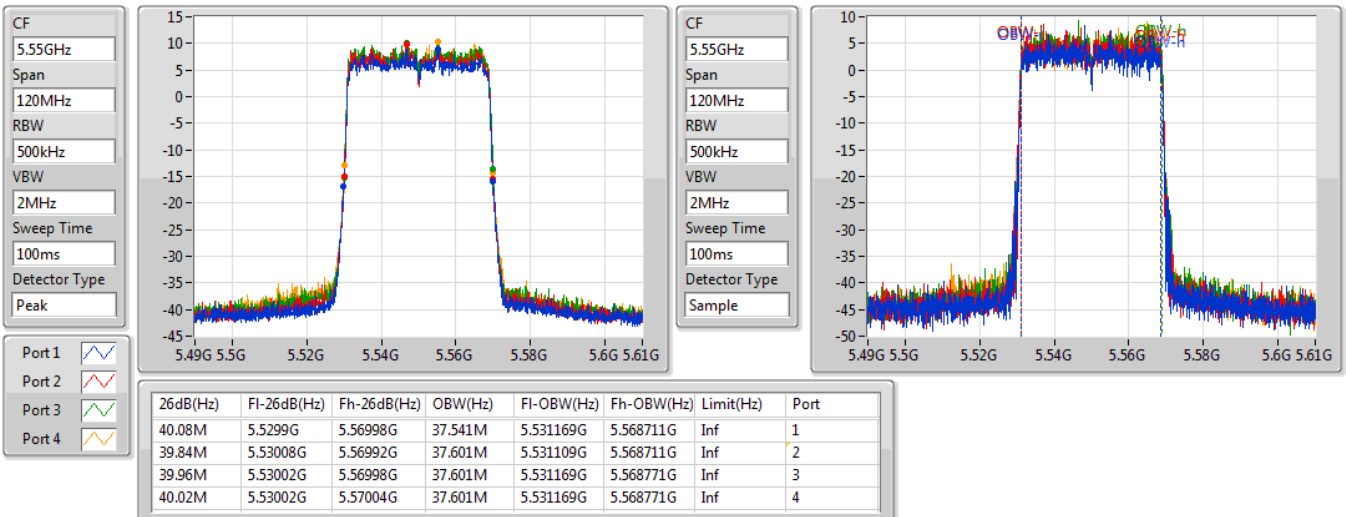


802.11ac VHT40-BF_Nss1,(MCS0)_4TX
EBW
5510MHz

19/09/2019

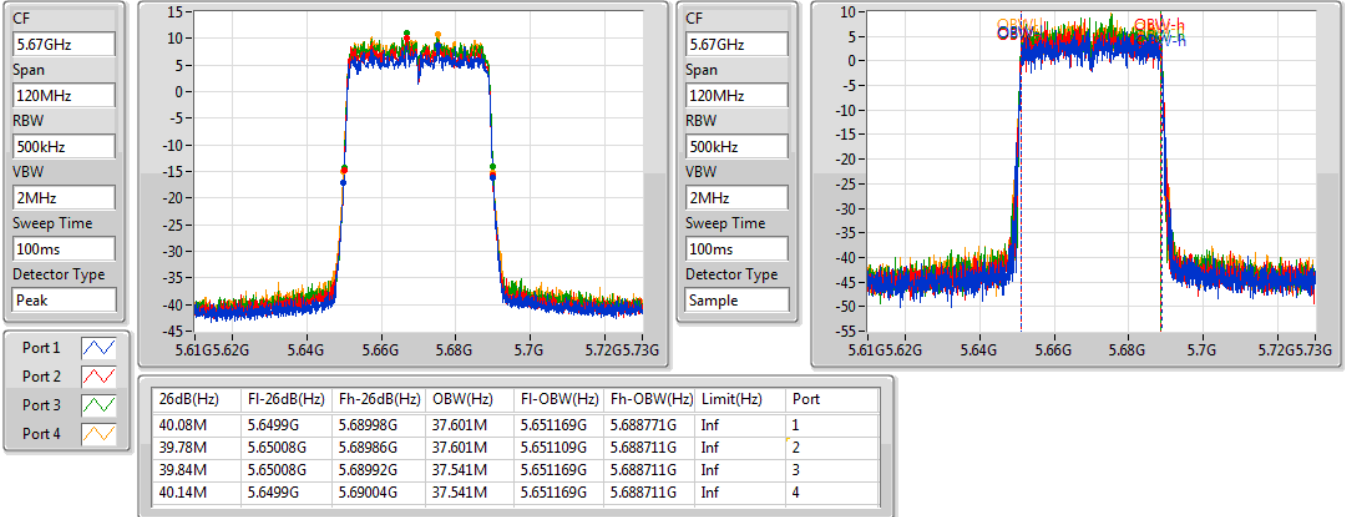

802.11ac VHT40-BF_Nss1,(MCS0)_4TX
EBW
5550MHz

19/09/2019

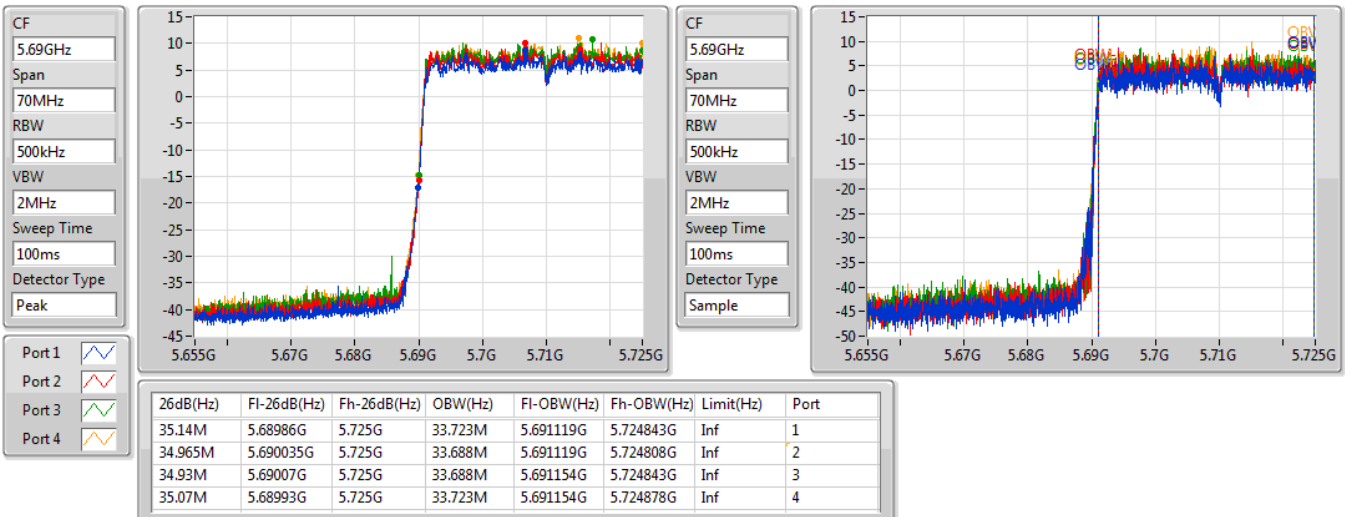


802.11ac VHT40-BF_Nss1,(MCS0)_4TX
EBW
5670MHz

19/09/2019

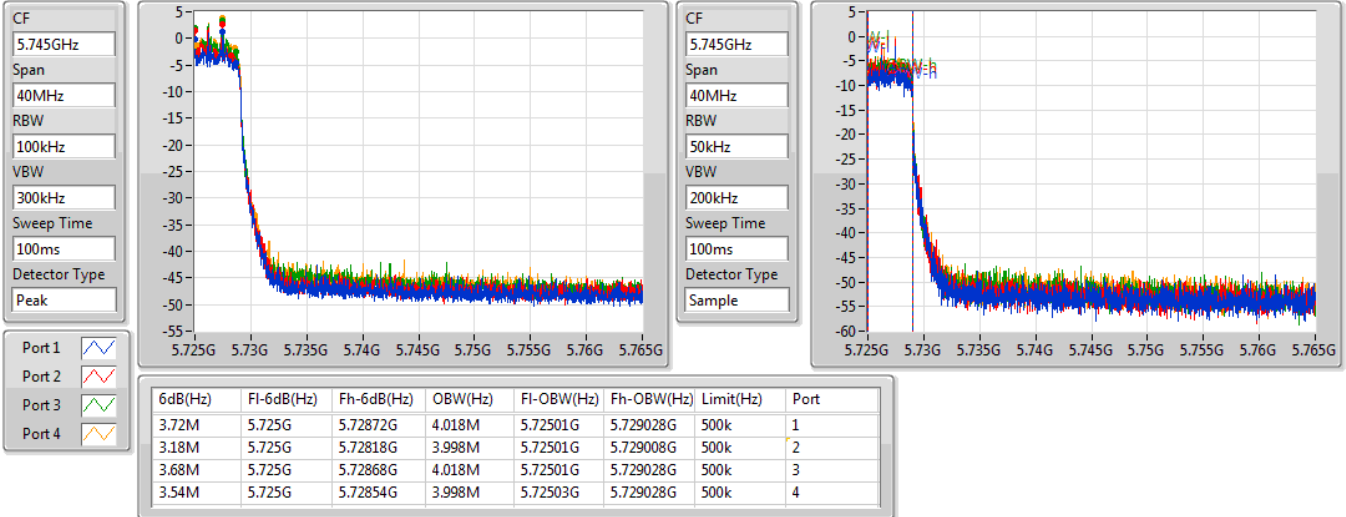

802.11ac VHT40-BF_Nss1,(MCS0)_4TX
EBW
5710MHz Straddle 5.47-5.725GHz

19/09/2019

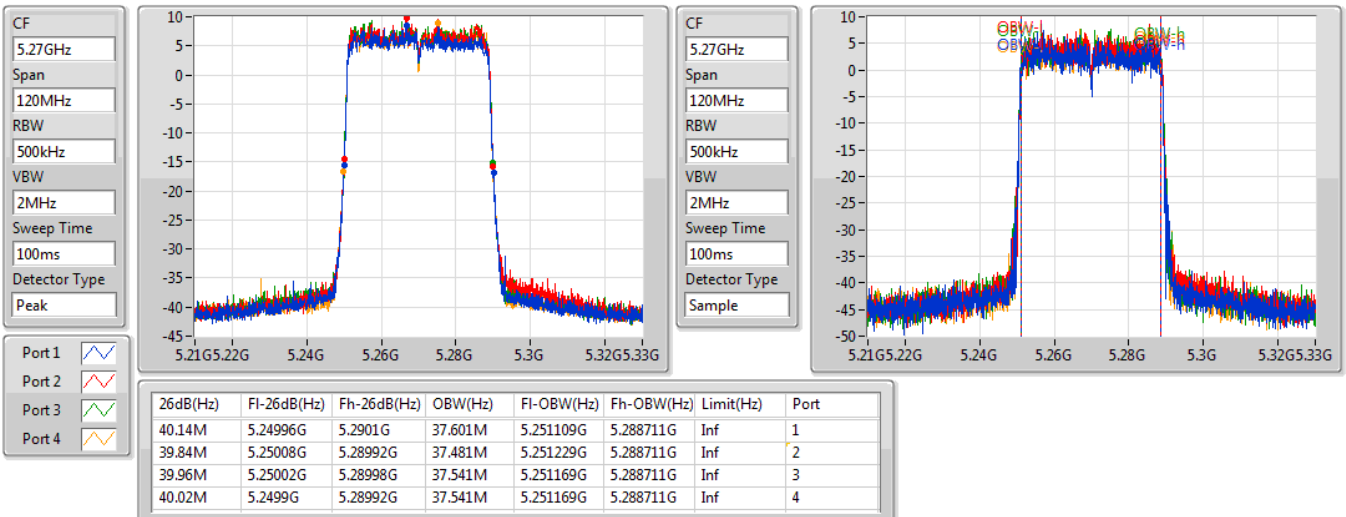


802.11ac VHT40-BF_Nss1,(MCS0)_4TX
EBW
5710MHz Straddle 5.725-5.85GHz

19/09/2019


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

19/09/2019

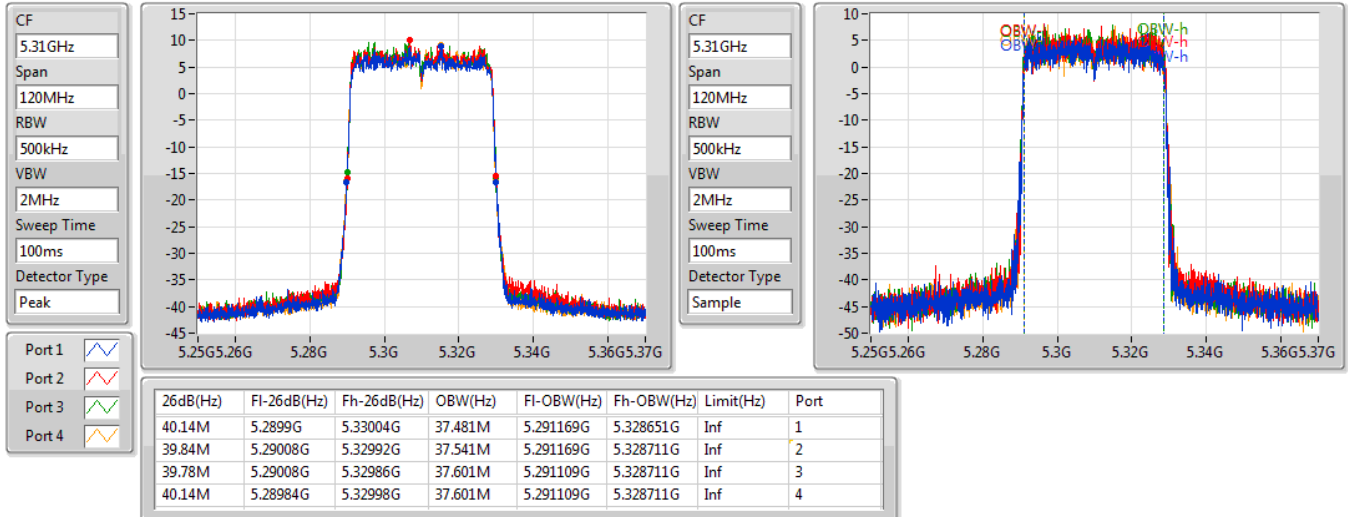


802.11ax HEW40-BF_Nss1,(MCS0)_4TX

EBW

5310MHz

19/09/2019

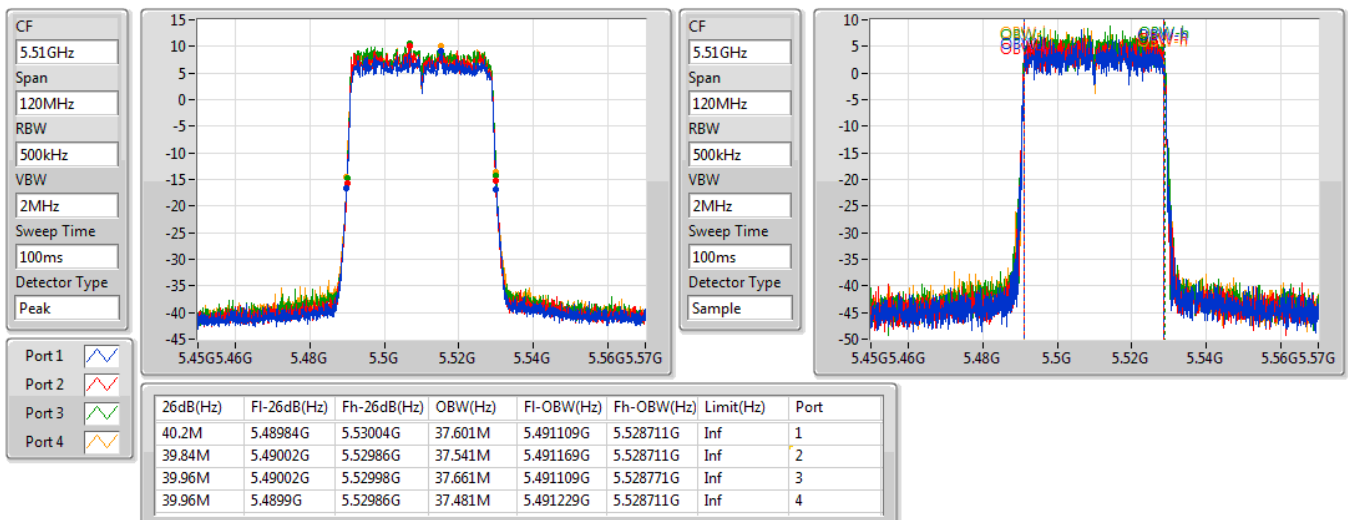


802.11ax HEW40-BF_Nss1,(MCS0)_4TX

EBW

5510MHz

19/09/2019

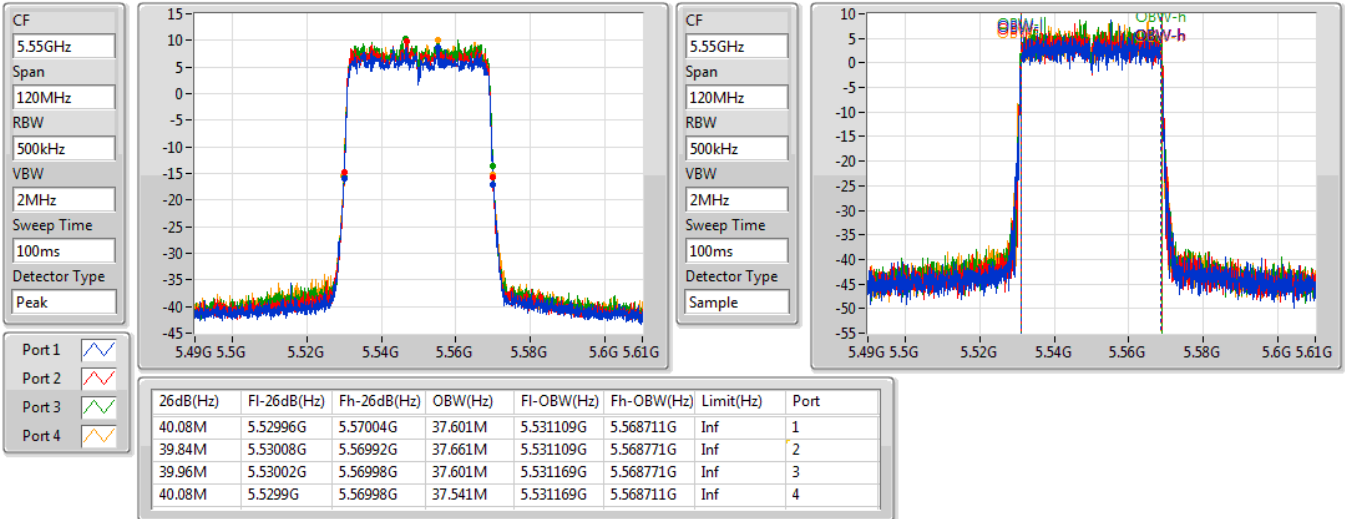


802.11ax HEW40-BF_Nss1,(MCS0)_4TX

EBW

5550MHz

19/09/2019

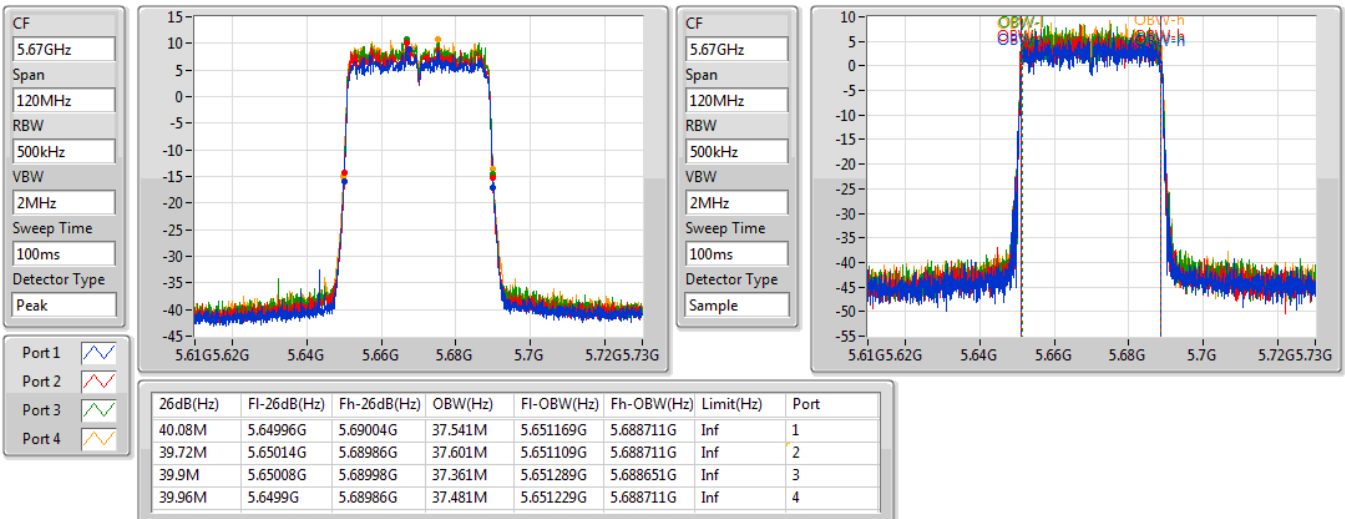


802.11ax HEW40-BF_Nss1,(MCS0)_4TX

EBW

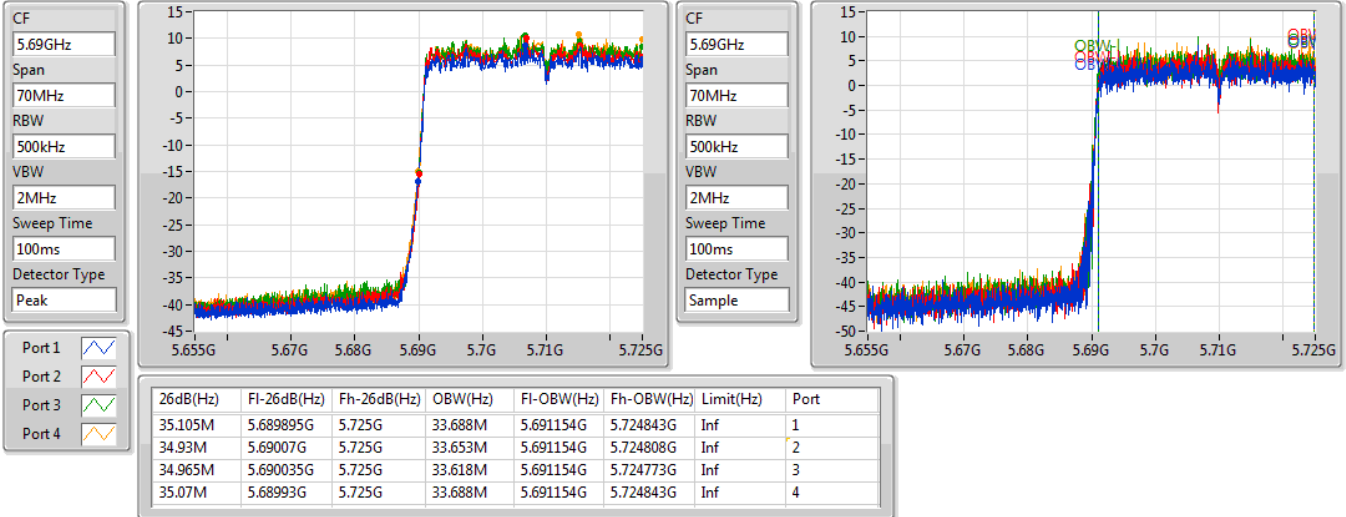
5670MHz

19/09/2019

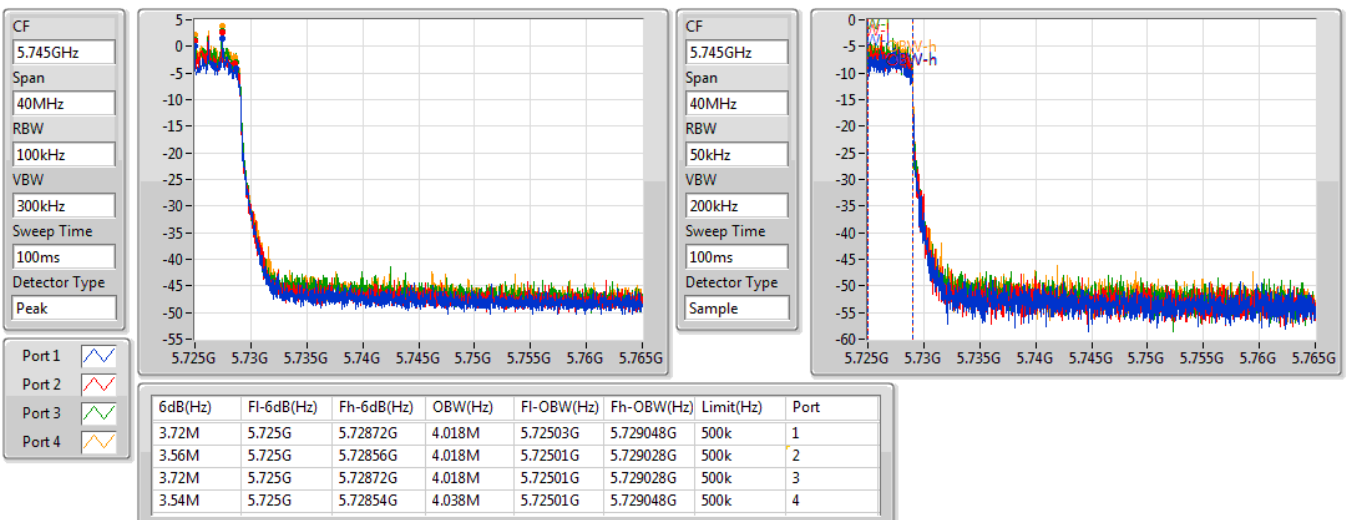


802.11ax HEW40-BF_Nss1,(MCS0)_4TX
EBW
5710MHz Straddle 5.47-5.725GHz

19/09/2019


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

19/09/2019

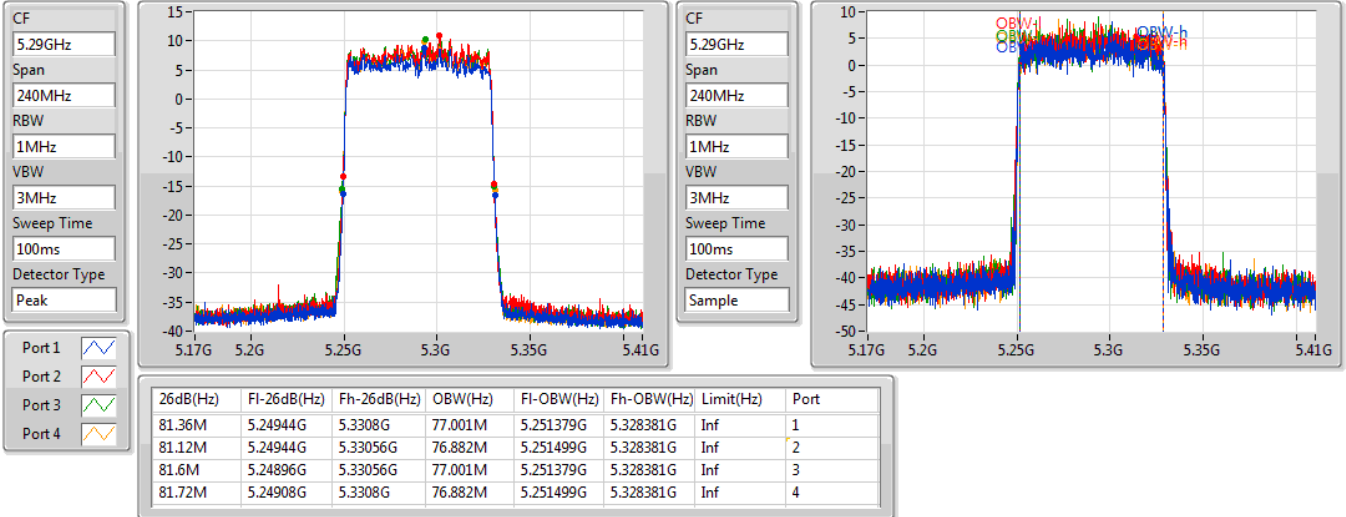


802.11ac VHT80-BF_Nss1,(MCS0)_4TX

EBW

5290MHz

19/09/2019

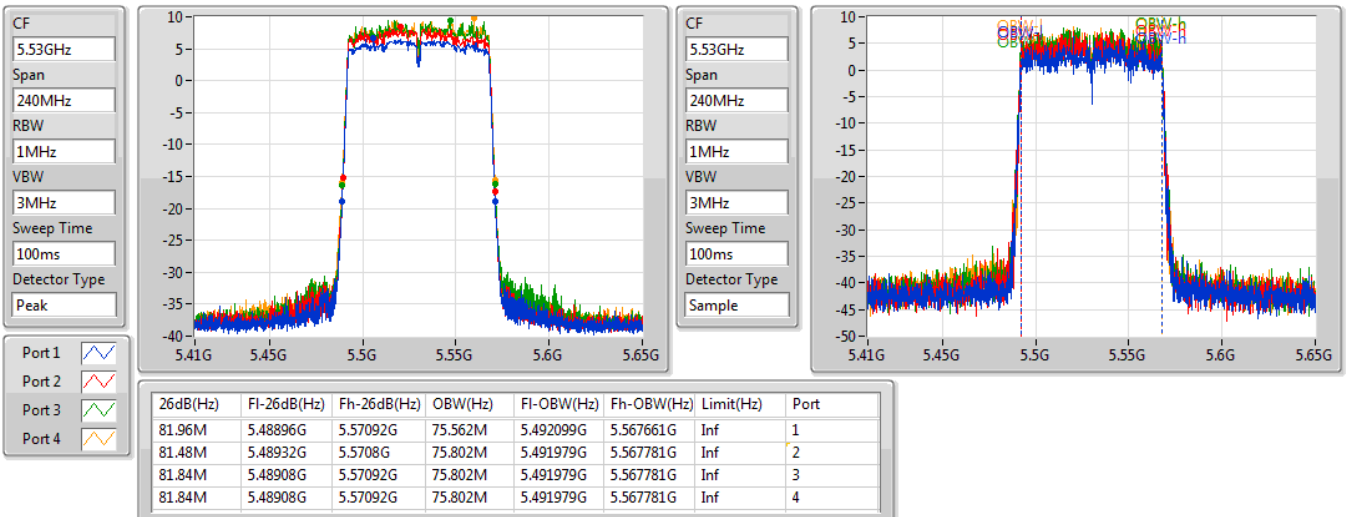


802.11ac VHT80-BF_Nss1,(MCS0)_4TX

EBW

5530MHz

19/09/2019

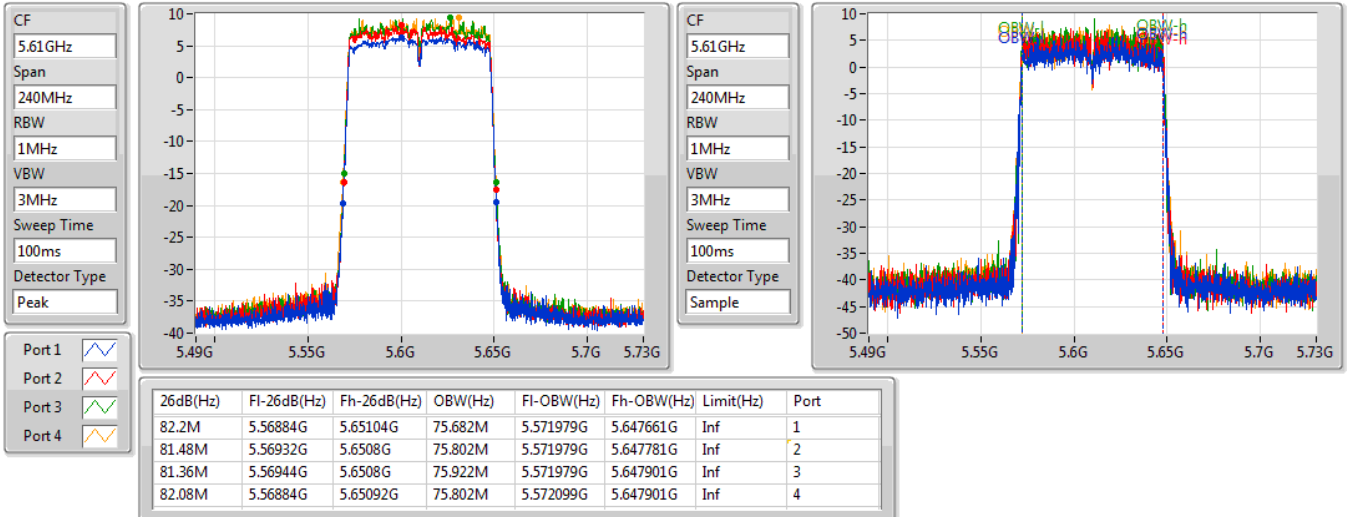


802.11ac VHT80-BF_Nss1,(MCS0)_4TX

EBW

5610MHz

19/09/2019

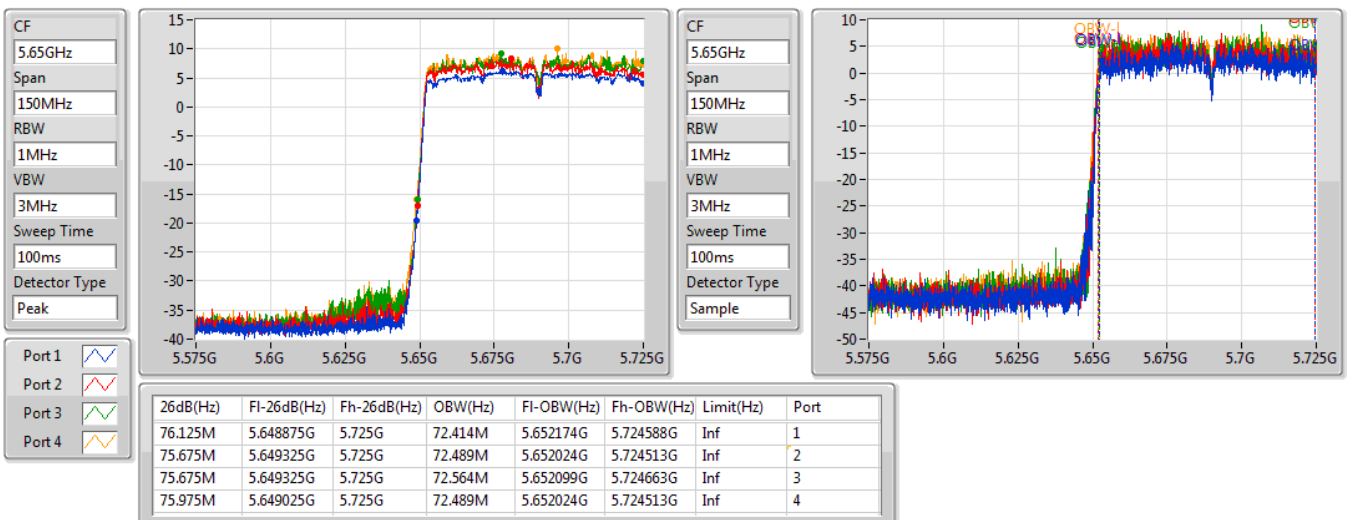


802.11ac VHT80-BF_Nss1,(MCS0)_4TX

EBW

5690MHz Straddle 5.47-5.725GHz

19/09/2019

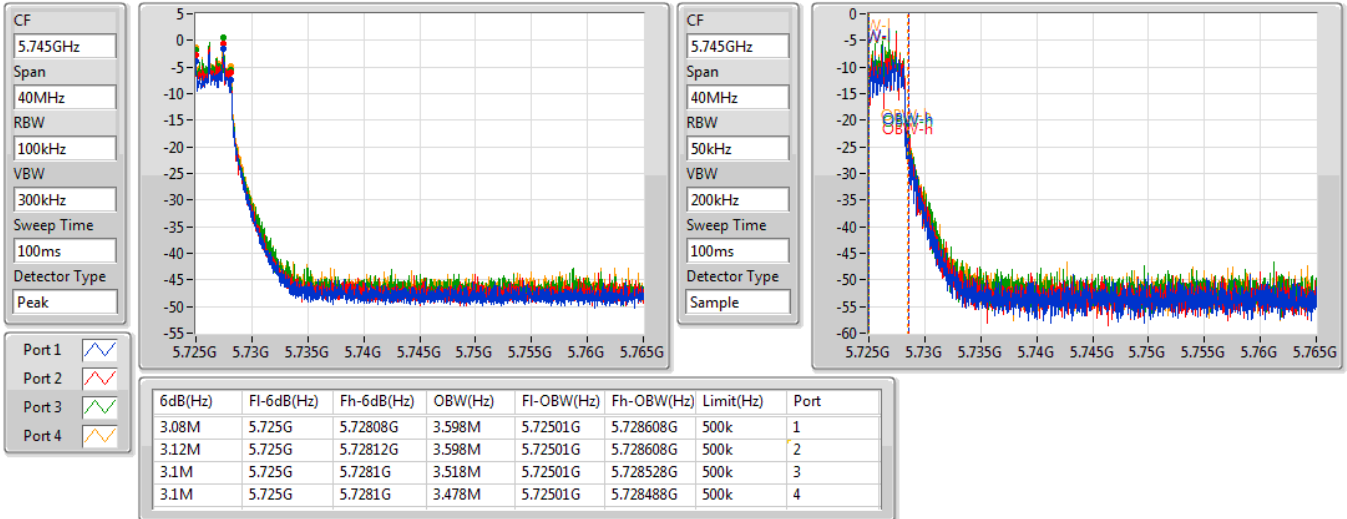


802.11ac VHT80-BF_Nss1,(MCS0)_4TX

EBW

5690MHz Straddle 5.725-5.85GHz

19/09/2019

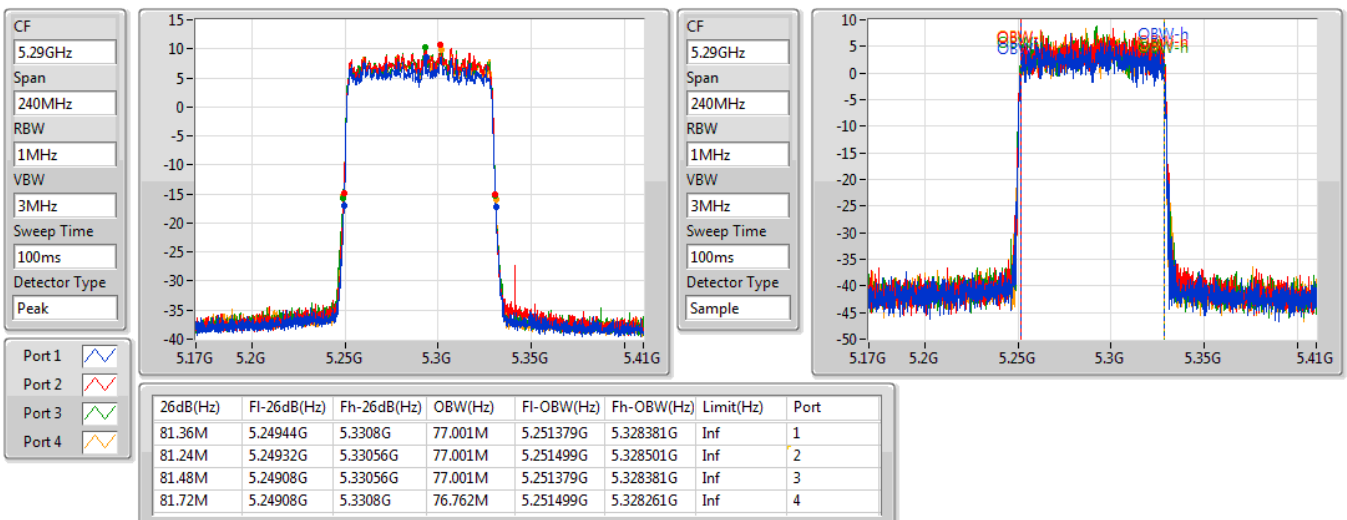


802.11ax HEW80-BF_Nss1,(MCS0)_4TX

EBW

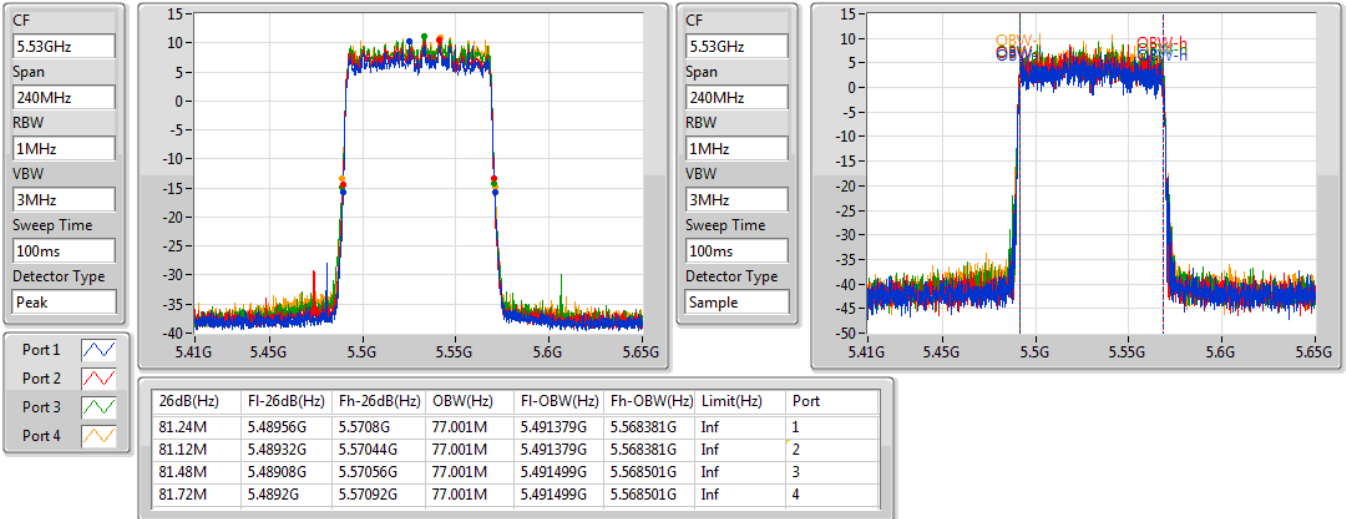
5290MHz

19/09/2019

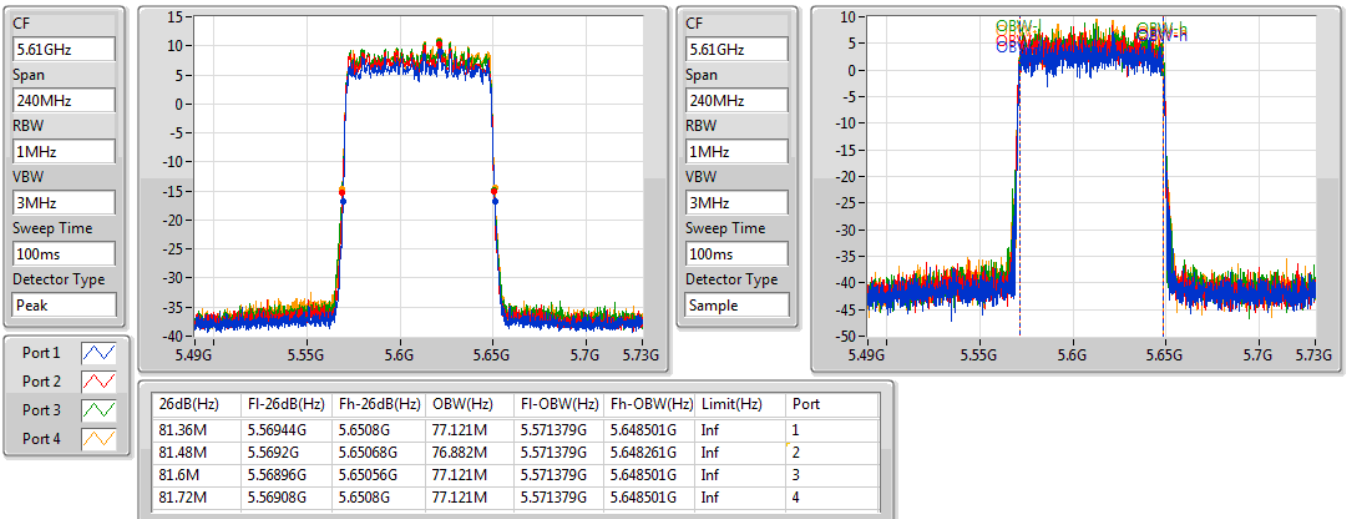


802.11ax HEW80-BF_Nss1,(MCS0)_4TX
EBW
5530MHz

19/09/2019

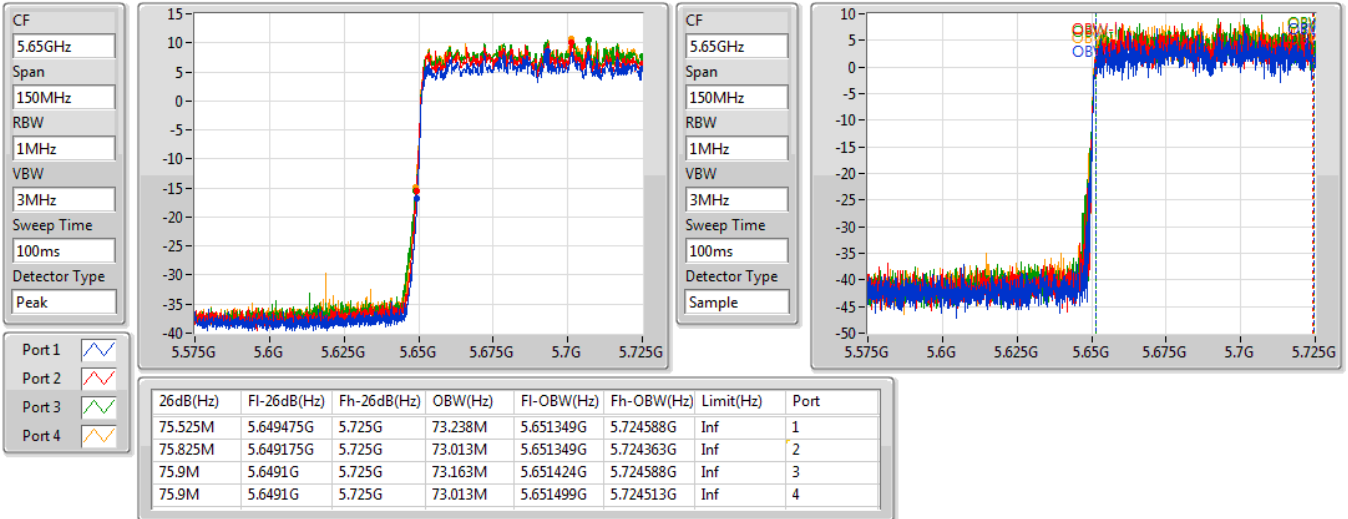

802.11ax HEW80-BF_Nss1,(MCS0)_4TX
EBW
5610MHz

19/09/2019

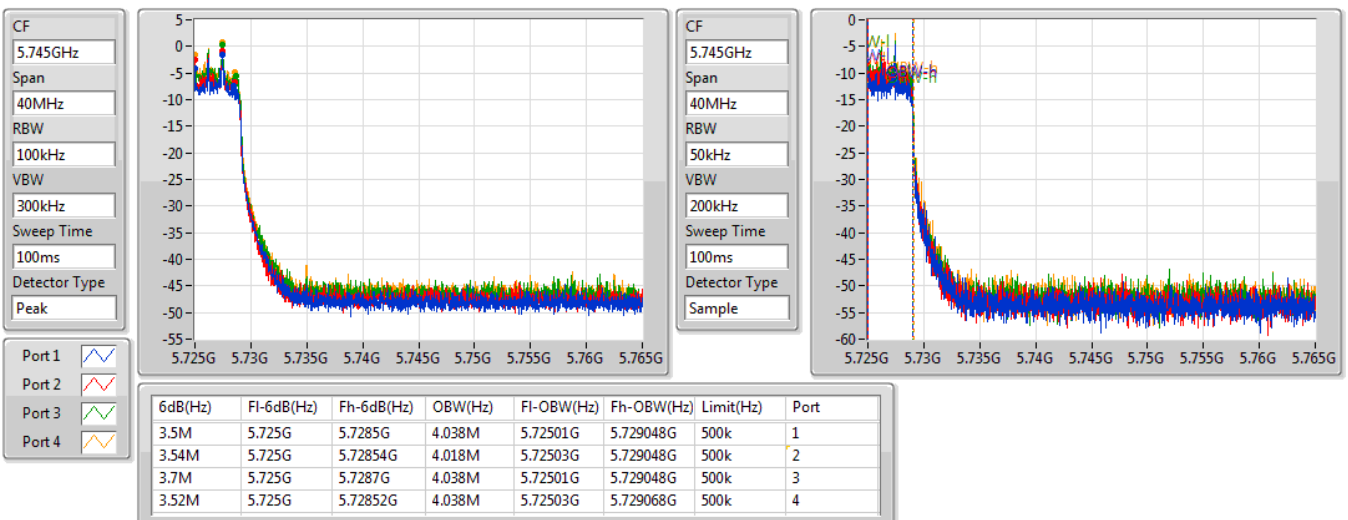


802.11ax HEW80-BF_Nss1,(MCS0)_4TX
EBW
5690MHz Straddle 5.47-5.725GHz

19/09/2019

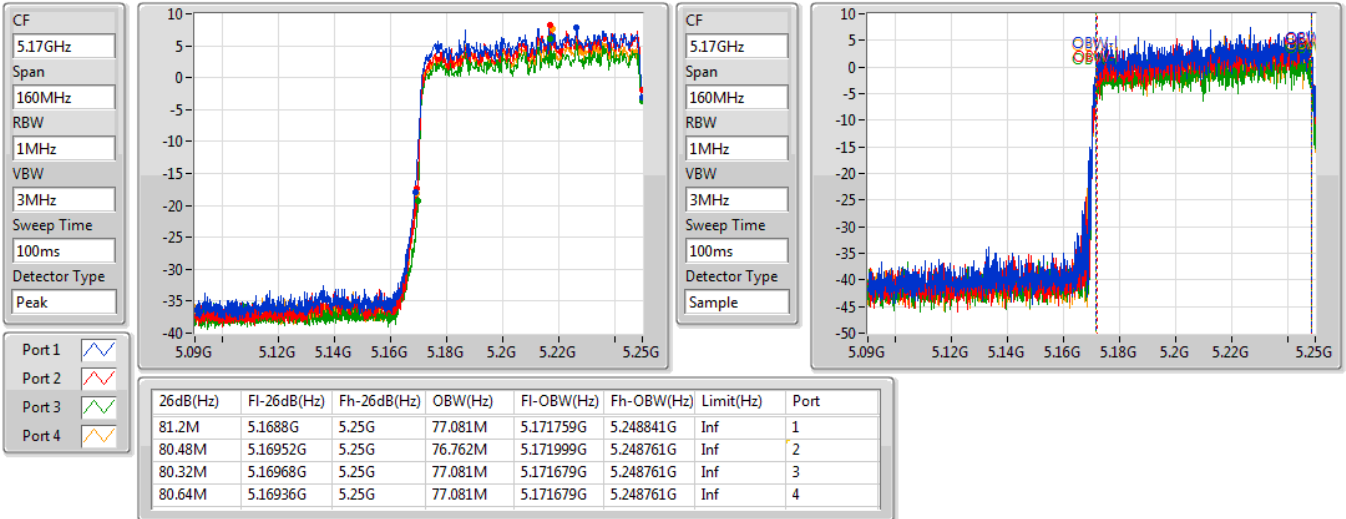

802.11ax HEW80-BF_Nss1,(MCS0)_4TX
EBW
5690MHz Straddle 5.725-5.85GHz

19/09/2019

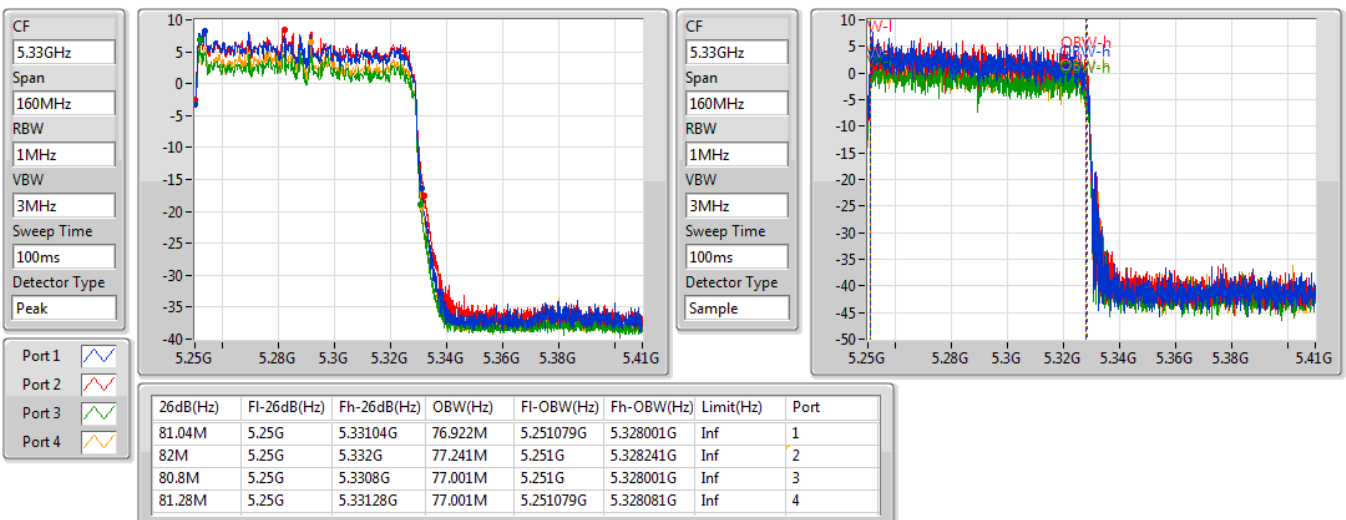


802.11ax HEW160-BF_Nss1,(MCS0)_4TX
EBW
5250MHz Straddle 5.15-5.25GHz

19/09/2019


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

19/09/2019

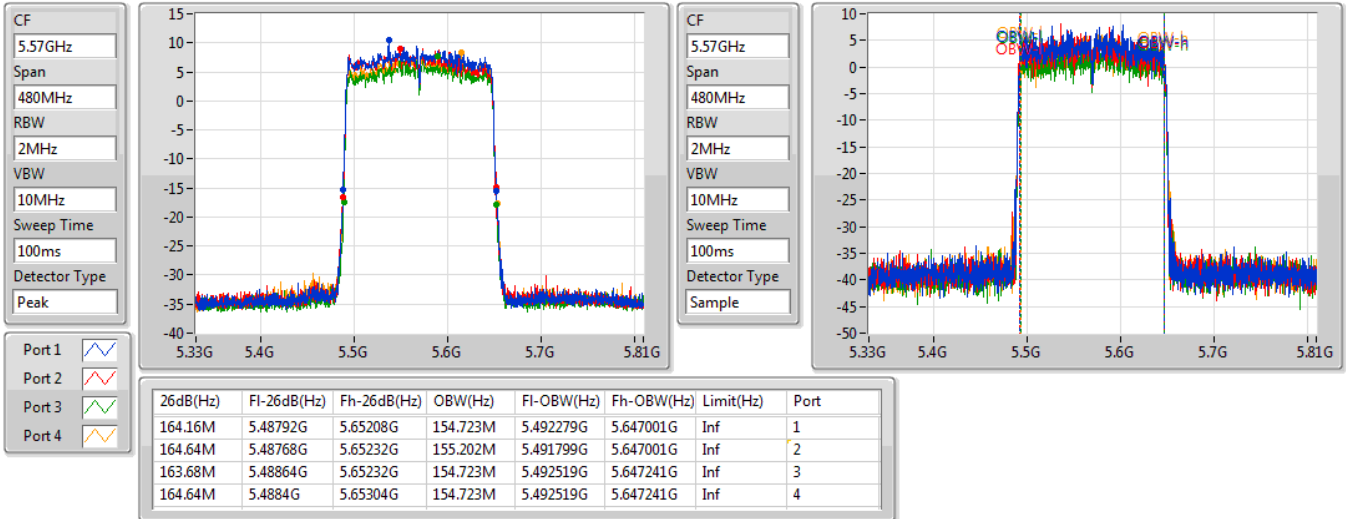


802.11ax HEW160-BF_Nss1,(MCS0)_4TX

EBW

5570MHz

19/09/2019



**Summary**

Mode	Total Power (dBm)	Total Power (W)
5.15-5.25GHz	-	-
802.11ax HEW160_Nss1,(MCS0)_4TX	20.05	0.10116
5.25-5.35GHz	-	-
802.11a_Nss1,(6Mbps)_4TX	22.80	0.19055
802.11ac VHT20_Nss1,(MCS0)_4TX	22.66	0.18450
802.11ac VHT40_Nss1,(MCS0)_4TX	23.94	0.24774
802.11ac VHT80_Nss1,(MCS0)_4TX	23.81	0.24044
802.11ax HEW20_Nss1,(MCS0)_4TX	22.83	0.19187
802.11ax HEW40_Nss1,(MCS0)_4TX	23.96	0.24889
802.11ax HEW80_Nss1,(MCS0)_4TX	23.93	0.24717
802.11ax HEW160_Nss1,(MCS0)_4TX	20.29	0.10691
5.47-5.725GHz	-	-
802.11a_Nss1,(6Mbps)_4TX	23.40	0.21878
802.11ac VHT20_Nss1,(MCS0)_4TX	23.16	0.20701
802.11ac VHT40_Nss1,(MCS0)_4TX	23.89	0.24491
802.11ac VHT80_Nss1,(MCS0)_4TX	23.93	0.24717
802.11ax HEW20_Nss1,(MCS0)_4TX	23.45	0.22131
802.11ax HEW40_Nss1,(MCS0)_4TX	23.97	0.24946
802.11ax HEW80_Nss1,(MCS0)_4TX	23.95	0.24831
802.11ax HEW160_Nss1,(MCS0)_4TX	21.55	0.14289
5.725-5.85GHz	-	-
802.11a_Nss1,(6Mbps)_4TX	16.77	0.04753
802.11ac VHT20_Nss1,(MCS0)_4TX	16.36	0.04325
802.11ac VHT40_Nss1,(MCS0)_4TX	13.35	0.02163
802.11ac VHT80_Nss1,(MCS0)_4TX	9.86	0.00968
802.11ax HEW20_Nss1,(MCS0)_4TX	17.15	0.05188
802.11ax HEW40_Nss1,(MCS0)_4TX	13.81	0.02404
802.11ax HEW80_Nss1,(MCS0)_4TX	10.46	0.01112

**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	4.98	16.94	17.00	16.38	15.78	22.57	23.98
5300MHz	Pass	4.98	17.13	17.07	16.51	16.37	22.80	23.98
5320MHz	Pass	4.98	17.00	17.08	16.63	16.19	22.76	23.98
5500MHz	Pass	4.16	17.00	17.24	17.40	17.82	23.40	23.98
5580MHz	Pass	4.16	16.74	17.16	16.94	18.18	23.31	23.98
5700MHz	Pass	4.16	17.25	17.28	16.98	17.32	23.23	23.98
5720MHz Straddle 5.47-5.725GHz	Pass	4.16	16.51	16.72	16.52	16.37	22.55	22.90
5720MHz Straddle 5.725-5.85GHz	Pass	3.90	10.83	10.62	11.17	10.33	16.77	30.00
802.11ac VHT20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5260MHz	Pass	4.98	16.92	16.88	16.34	15.71	22.51	23.98
5300MHz	Pass	4.98	16.96	16.74	16.74	15.38	22.52	23.98
5320MHz	Pass	4.98	16.93	16.94	16.63	15.98	22.66	23.98
5500MHz	Pass	4.16	16.62	16.84	17.27	17.39	23.06	23.98
5580MHz	Pass	4.16	16.59	16.93	17.25	17.71	23.16	23.98
5700MHz	Pass	4.16	16.46	16.27	16.21	16.11	22.28	23.98
5720MHz Straddle 5.47-5.725GHz	Pass	4.16	15.96	16.00	15.77	15.92	21.93	22.93
5720MHz Straddle 5.725-5.85GHz	Pass	3.90	10.34	10.36	10.32	10.33	16.36	30.00
802.11ac VHT40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5270MHz	Pass	4.98	18.29	18.19	17.79	17.34	23.94	23.98
5310MHz	Pass	4.98	18.23	17.95	17.54	17.19	23.77	23.98
5510MHz	Pass	4.16	17.05	17.58	18.04	18.29	23.79	23.98
5550MHz	Pass	4.16	17.03	17.59	18.08	18.25	23.78	23.98
5670MHz	Pass	4.16	18.00	17.36	17.78	18.27	23.89	23.98
5710MHz Straddle 5.47-5.725GHz	Pass	4.16	17.65	17.22	17.25	17.87	23.53	23.98
5710MHz Straddle 5.725-5.85GHz	Pass	3.90	7.43	6.99	7.02	7.81	13.35	30.00
802.11ac VHT80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5290MHz	Pass	4.98	18.23	18.02	17.43	17.40	23.81	23.98
5530MHz	Pass	4.16	17.44	17.37	17.44	18.50	23.73	23.98
5610MHz	Pass	4.16	17.99	17.73	17.87	18.05	23.93	23.98
5690MHz Straddle 5.47-5.725GHz	Pass	4.16	18.00	17.66	17.78	17.96	23.87	23.98
5690MHz Straddle 5.725-5.85GHz	Pass	3.90	3.92	3.40	3.76	4.25	9.86	30.00
802.11ax HEW20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5260MHz	Pass	4.98	17.18	16.87	16.51	16.06	22.70	23.98
5300MHz	Pass	4.98	17.11	17.00	16.98	16.05	22.83	23.98
5320MHz	Pass	4.98	17.12	17.04	16.64	16.20	22.79	23.98
5500MHz	Pass	4.16	17.08	17.20	17.66	17.75	23.45	23.98
5580MHz	Pass	4.16	16.99	17.05	16.94	17.80	23.23	23.98
5700MHz	Pass	4.16	17.03	16.47	16.65	16.78	22.76	23.98
5720MHz Straddle 5.47-5.725GHz	Pass	4.16	16.32	16.23	16.19	16.26	22.27	22.94
5720MHz Straddle 5.725-5.85GHz	Pass	3.90	11.19	11.12	11.09	11.11	17.15	30.00
802.11ax HEW40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5270MHz	Pass	4.98	18.54	17.80	17.90	17.43	23.96	23.98
5310MHz	Pass	4.98	18.63	18.07	17.17	17.40	23.88	23.98



Average Power

Appendix B.1

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Port 3 (dBm)	Port 4 (dBm)	Total Power (dBm)	Power Limit (dBm)
5510MHz	Pass	4.16	17.54	17.66	18.33	18.21	23.97	23.98
5550MHz	Pass	4.16	17.42	17.42	18.23	18.43	23.92	23.98
5670MHz	Pass	4.16	17.95	17.33	17.93	18.35	23.93	23.98
5710MHz Straddle 5.47-5.725GHz	Pass	4.16	17.98	17.40	17.70	18.42	23.91	23.98
5710MHz Straddle 5.725-5.85GHz	Pass	3.90	7.91	7.32	7.64	8.22	13.81	30.00
802.11ax HEW80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5290MHz	Pass	4.98	18.28	18.31	17.43	17.54	23.93	23.98
5530MHz	Pass	4.16	17.41	17.45	18.11	18.61	23.94	23.98
5610MHz	Pass	4.16	18.00	17.74	17.82	18.14	23.95	23.98
5690MHz Straddle 5.47-5.725GHz	Pass	4.16	18.12	17.65	17.85	18.08	23.95	23.98
5690MHz Straddle 5.725-5.85GHz	Pass	3.90	4.62	3.78	4.43	4.84	10.46	30.00
802.11ax HEW160_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	5.00	15.07	13.83	13.33	13.67	20.05	30.00
5250MHz Straddle 5.25-5.35GHz	Pass	4.98	15.11	15.03	13.05	13.51	20.29	23.98
5570MHz	Pass	4.16	16.11	15.76	14.84	15.31	21.55	23.98

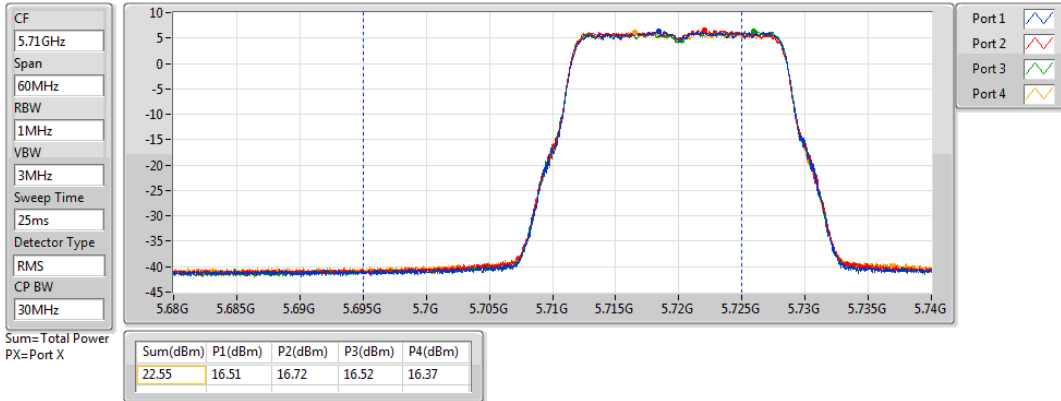
DG = Directional Gain; **Port X** = Port X output power

802.11a_Nss1,(6Mbps)_4TX

AV Power

5720MHz Straddle 5.47-5.725GHz

11/09/2019

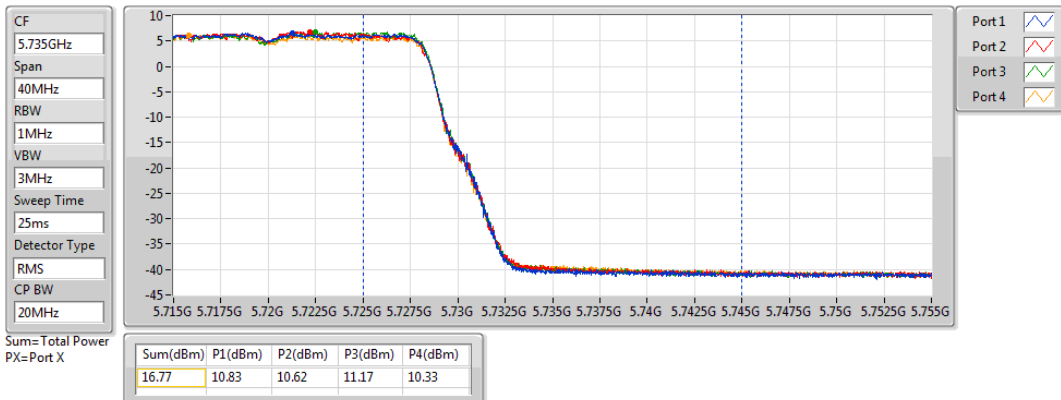


802.11a_Nss1,(6Mbps)_4TX

AV Power

5720MHz Straddle 5.725-5.85GHz

11/09/2019

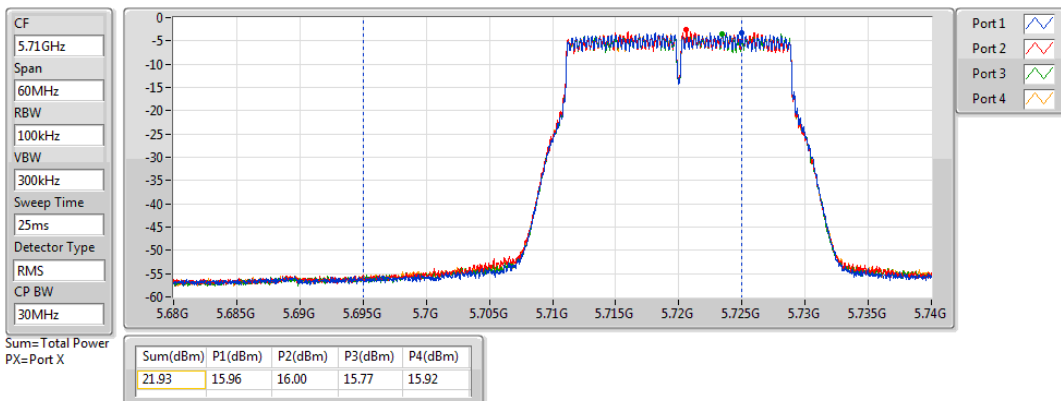


802.11ac VHT20_Nss1,(MCS0)_4TX

AV Power

5720MHz Straddle 5.47-5.725GHz

12/09/2019

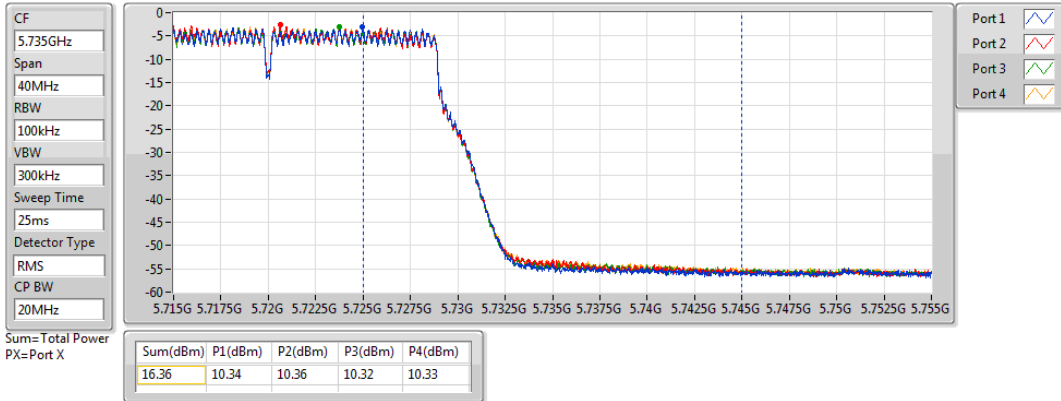


802.11ac VHT20_Nss1,(MCS0)_4TX

AV Power

5720MHz Straddle 5.725-5.85GHz

12/09/2019

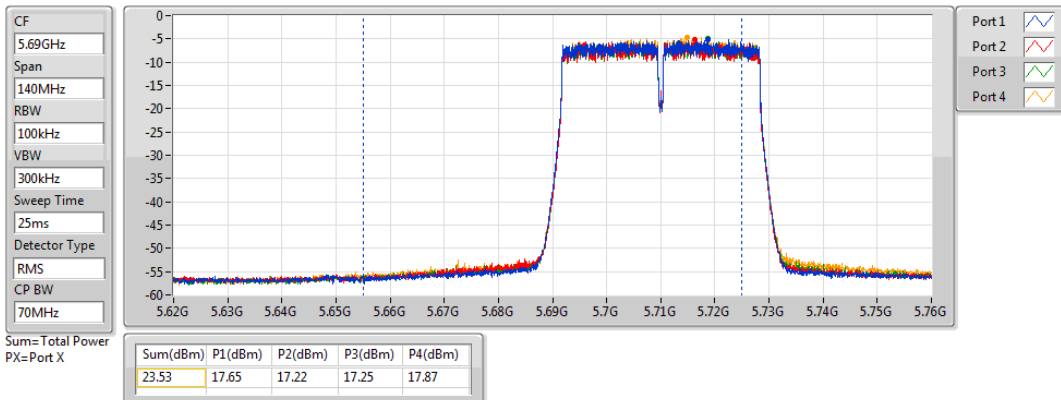


802.11ac VHT40_Nss1,(MCS0)_4TX

AV Power

5710MHz Straddle 5.47-5.725GHz

12/09/2019

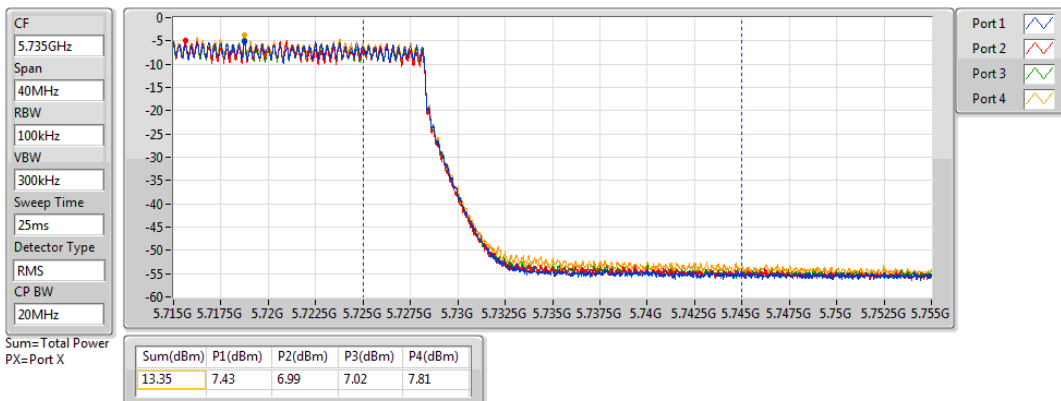


802.11ac VHT40_Nss1,(MCS0)_4TX

AV Power

5710MHz Straddle 5.725-5.85GHz

12/09/2019

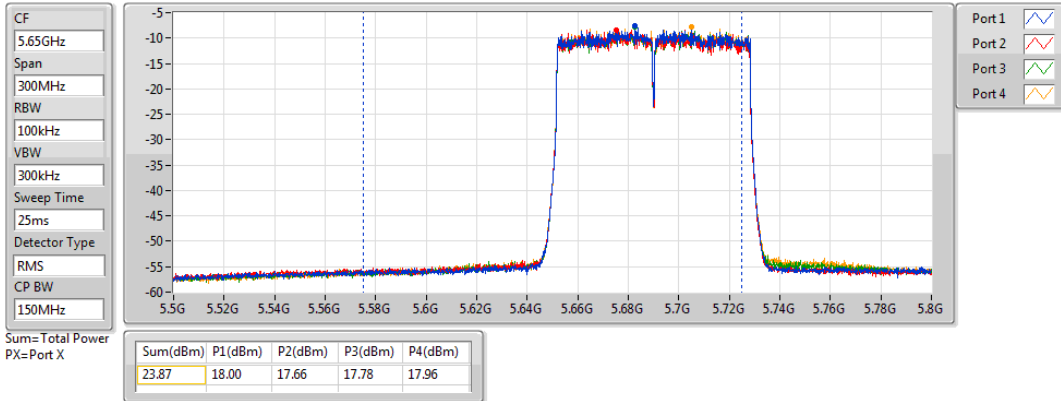


802.11ac VHT80_Nss1,(MCS0)_4TX

AV Power

5690MHz Straddle 5.47-5.725GHz

12/09/2019

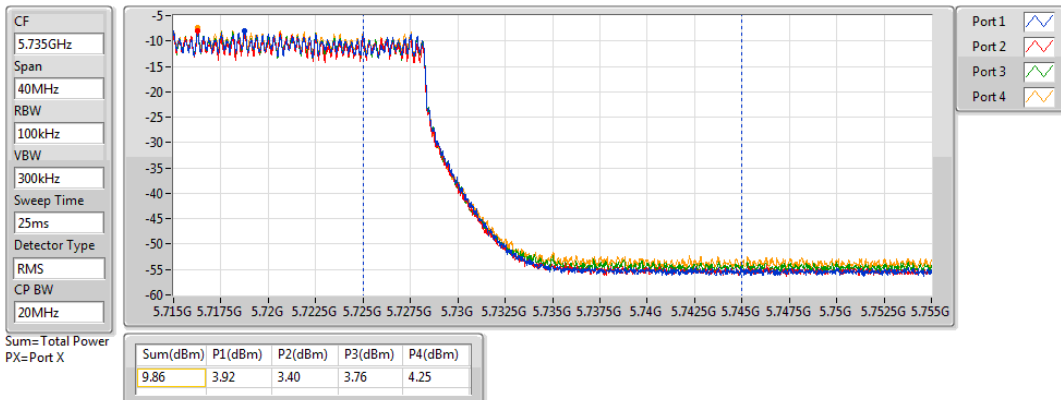


802.11ac VHT80_Nss1,(MCS0)_4TX

AV Power

5690MHz Straddle 5.725-5.85GHz

12/09/2019

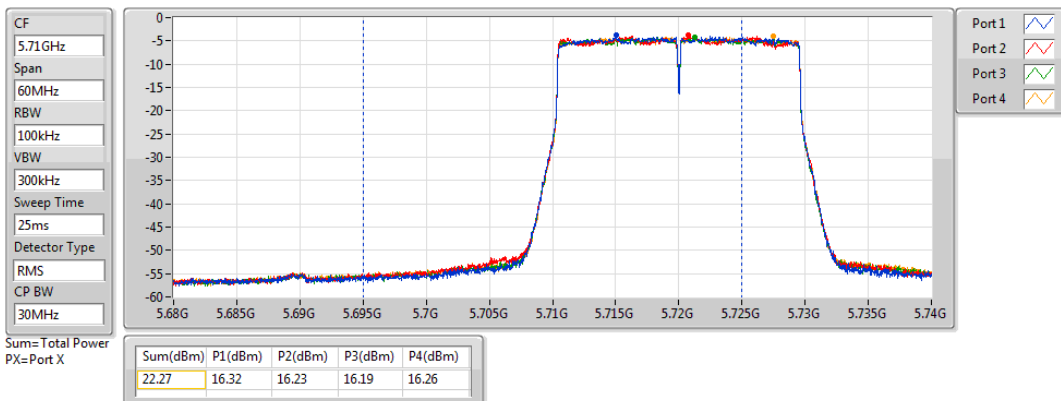


802.11ax HEW20_Nss1,(MCS0)_4TX

AV Power

5720MHz Straddle 5.47-5.725GHz

12/09/2019

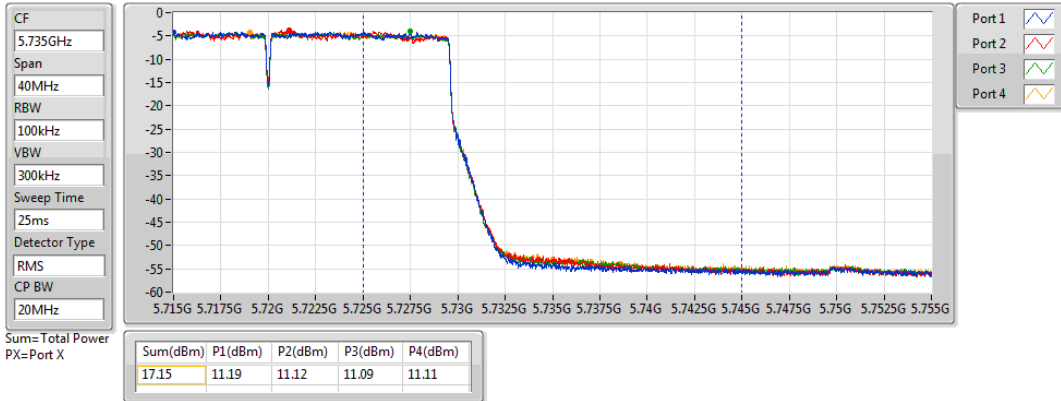


802.11ax HEW20_Nss1,(MCS0)_4TX

AV Power

5720MHz Straddle 5.725-5.85GHz

12/09/2019

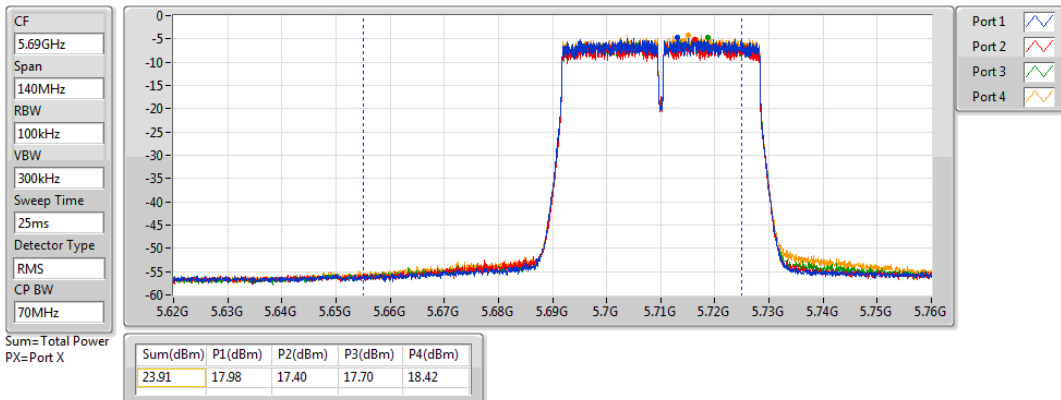


802.11ax HEW40_Nss1,(MCS0)_4TX

AV Power

5710MHz Straddle 5.47-5.725GHz

12/09/2019

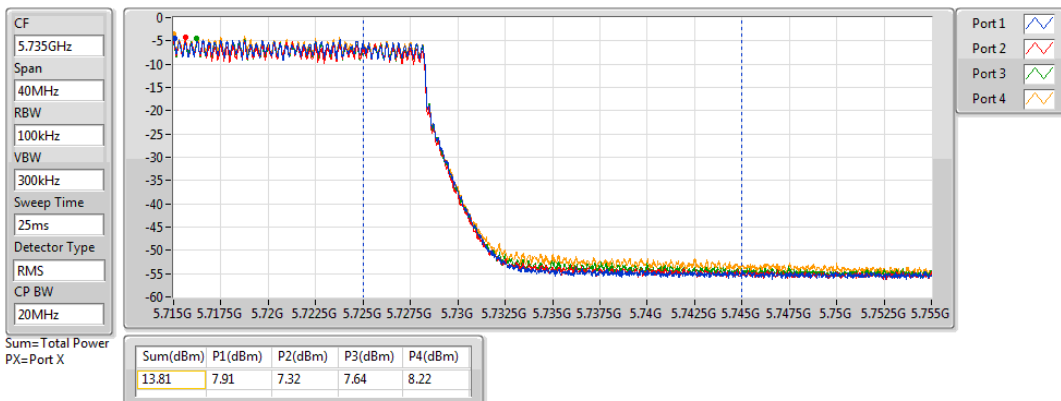


802.11ax HEW40_Nss1,(MCS0)_4TX

AV Power

5710MHz Straddle 5.725-5.85GHz

12/09/2019

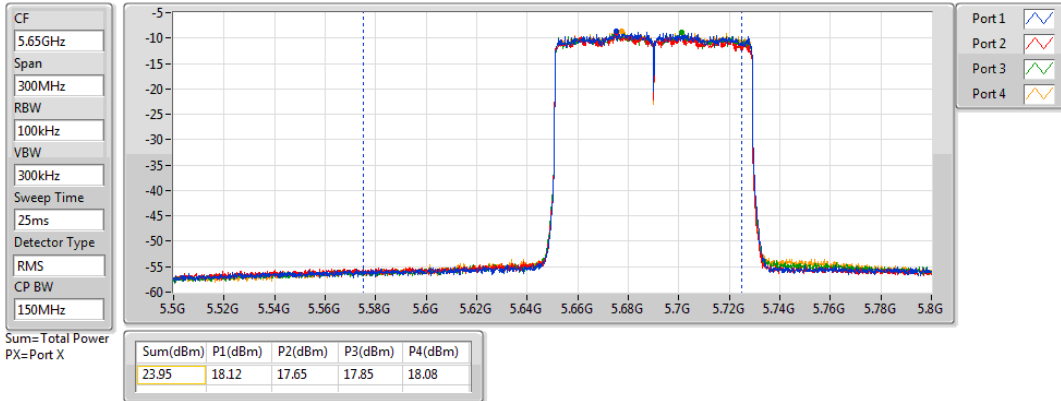


802.11ax HEW80_Nss1,(MCS0)_4TX

AV Power

5690MHz Straddle 5.47-5.725GHz

12/09/2019

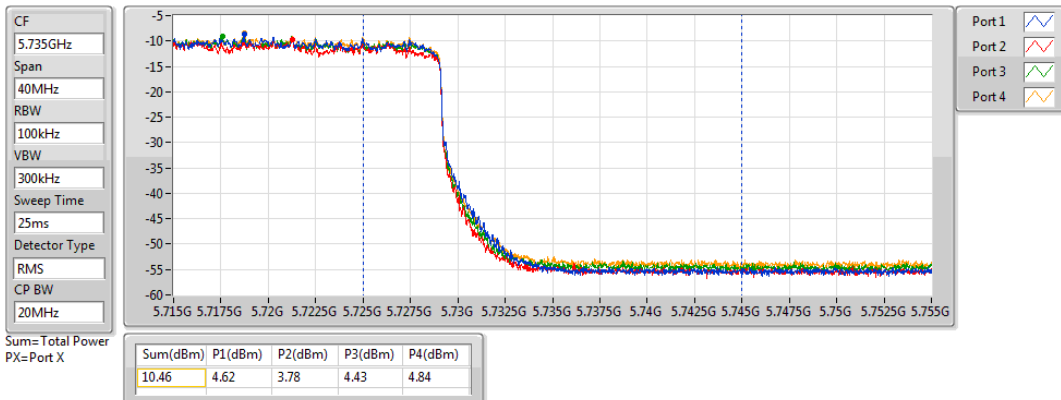


802.11ax HEW80_Nss1,(MCS0)_4TX

AV Power

5690MHz Straddle 5.725-5.85GHz

12/09/2019

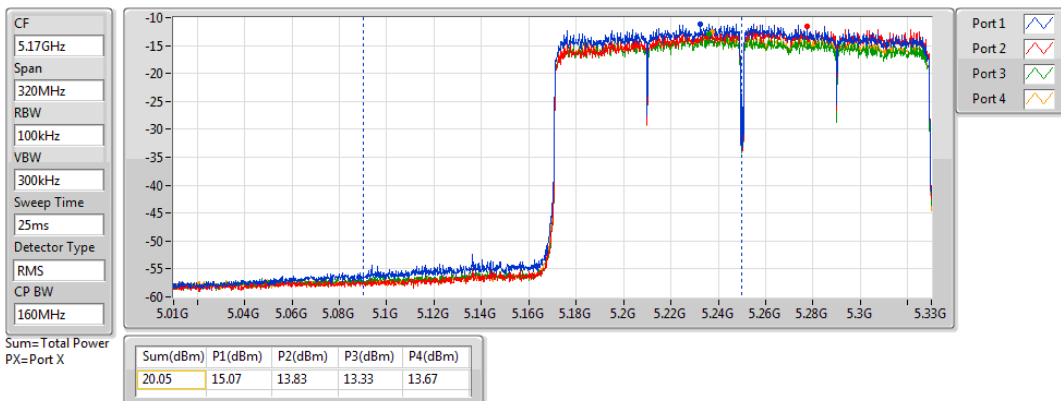


802.11ax HEW160_Nss1,(MCS0)_4TX

AV Power

5250MHz Straddle 5.15-5.25GHz

12/09/2019

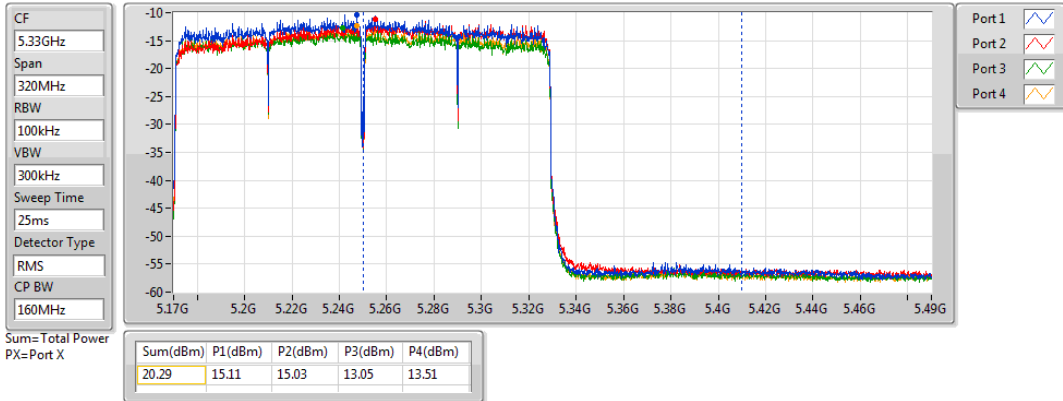


802.11ax HEW160_Nss1,(MCS0)_4TX

AV Power

5250MHz Straddle 5.25-5.35GHz

12/09/2019



**Summary**

Mode	Total Power (dBm)	Total Power (W)
5.15-5.25GHz	-	-
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	19.96	0.09908
5.25-5.35GHz	-	-
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	22.23	0.16711
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	22.19	0.16558
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	22.22	0.16672
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	22.22	0.16672
802.11ac VHT80-BF_Nss1,(MCS0)_4TX	22.27	0.16866
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	22.23	0.16711
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	20.00	0.10000
5.47-5.725GHz	-	-
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	22.95	0.19724
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	22.89	0.19454
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	22.93	0.19634
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	22.94	0.19679
802.11ac VHT80-BF_Nss1,(MCS0)_4TX	22.91	0.19543
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	22.95	0.19724
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	21.31	0.13521
5.725-5.85GHz	-	-
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	16.53	0.04498
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	16.93	0.04932
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	13.52	0.02249
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	13.55	0.02265
802.11ac VHT80-BF_Nss1,(MCS0)_4TX	9.34	0.00859
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	9.81	0.00957

**Result**

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Port 3 (dBm)	Port 4 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5260MHz	Pass	7.69	15.60	16.66	16.50	15.82	22.19	22.29
5300MHz	Pass	7.69	15.48	16.45	16.64	16.17	22.23	22.29
5320MHz	Pass	7.69	15.43	16.63	16.43	15.94	22.15	22.29
5500MHz	Pass	7.02	16.06	16.61	17.54	17.24	22.92	22.96
5580MHz	Pass	7.02	16.1	16.76	17.37	17.38	22.95	22.96
5700MHz	Pass	7.02	15.66	16.90	17.28	17.18	22.82	22.96
5720MHz Straddle 5.47-5.725GHz	Pass	7.02	14.51	15.71	16.31	16.17	21.75	21.93
5720MHz Straddle 5.725-5.85GHz	Pass	6.21	9.37	10.40	11.10	10.95	16.53	29.79
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5260MHz	Pass	7.69	15.32	16.53	16.49	15.59	22.04	22.29
5300MHz	Pass	7.69	15.31	16.45	16.65	16.15	22.19	22.29
5320MHz	Pass	7.69	15.49	16.41	16.56	15.89	22.13	22.29
5500MHz	Pass	7.02	15.70	16.62	17.27	17.23	22.77	22.96
5580MHz	Pass	7.02	15.71	16.47	17.33	17.24	22.76	22.96
5700MHz	Pass	7.02	15.84	16.99	17.24	17.25	22.89	22.96
5720MHz Straddle 5.47-5.725GHz	Pass	7.02	14.71	15.52	16.20	16.31	21.75	21.93
5720MHz Straddle 5.725-5.85GHz	Pass	6.21	9.75	10.74	11.43	11.50	16.93	29.79
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5270MHz	Pass	7.69	15.46	16.62	16.49	16.03	22.19	22.29
5310MHz	Pass	7.69	15.54	16.50	16.68	15.98	22.22	22.29
5510MHz	Pass	7.02	15.75	16.84	17.45	17.08	22.84	22.96
5550MHz	Pass	7.02	15.80	16.78	17.48	17.28	22.90	22.96
5670MHz	Pass	7.02	15.62	16.48	17.48	17.75	22.93	22.96
5710MHz Straddle 5.47-5.725GHz	Pass	7.02	15.50	16.50	17.16	17.55	22.77	22.96
5710MHz Straddle 5.725-5.85GHz	Pass	6.21	6.28	7.17	8.01	8.28	13.52	29.79
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5270MHz	Pass	7.69	15.45	16.54	16.42	15.99	22.14	22.29
5310MHz	Pass	7.69	15.55	16.56	16.59	16.01	22.22	22.29
5510MHz	Pass	7.02	15.79	16.79	17.52	17.23	22.90	22.96
5550MHz	Pass	7.02	16.05	16.14	17.26	16.98	22.66	22.96
5670MHz	Pass	7.02	15.62	16.58	17.37	17.79	22.94	22.96
5710MHz Straddle 5.47-5.725GHz	Pass	7.02	15.49	16.54	17.27	17.52	22.79	22.96
5710MHz Straddle 5.725-5.85GHz	Pass	6.21	6.16	7.24	8.06	8.34	13.55	29.79
802.11ac VHT80-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5290MHz	Pass	7.69	15.29	16.72	16.61	16.22	22.27	22.29
5530MHz	Pass	7.02	15.76	16.62	17.34	17.41	22.85	22.96
5610MHz	Pass	7.02	15.42	16.47	17.31	17.23	22.69	22.96
5690MHz Straddle 5.47-5.725GHz	Pass	7.02	15.63	16.74	17.43	17.50	22.91	22.96
5690MHz Straddle 5.725-5.85GHz	Pass	6.21	1.95	2.82	3.88	4.25	9.34	29.79
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5290MHz	Pass	7.69	15.16	16.71	16.58	16.21	22.23	22.29
5530MHz	Pass	7.02	15.78	16.75	17.40	17.56	22.95	22.96
5610MHz	Pass	7.02	15.51	16.45	17.30	17.29	22.72	22.96



Average Power

Appendix B.2

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Port 3 (dBm)	Port 4 (dBm)	Total Power (dBm)	Power Limit (dBm)
5690MHz Straddle 5.47-5.725GHz	Pass	7.02	15.46	16.66	17.34	17.42	22.81	22.96
5690MHz Straddle 5.725-5.85GHz	Pass	6.21	2.36	3.27	4.42	4.72	9.81	29.79
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	7.48	15.19	14.31	12.49	13.28	19.96	28.52
5250MHz Straddle 5.25-5.35GHz	Pass	7.69	14.88	15.10	12.27	12.99	20.00	22.29
5570MHz	Pass	7.02	16.06	15.77	14.11	14.96	21.31	22.96

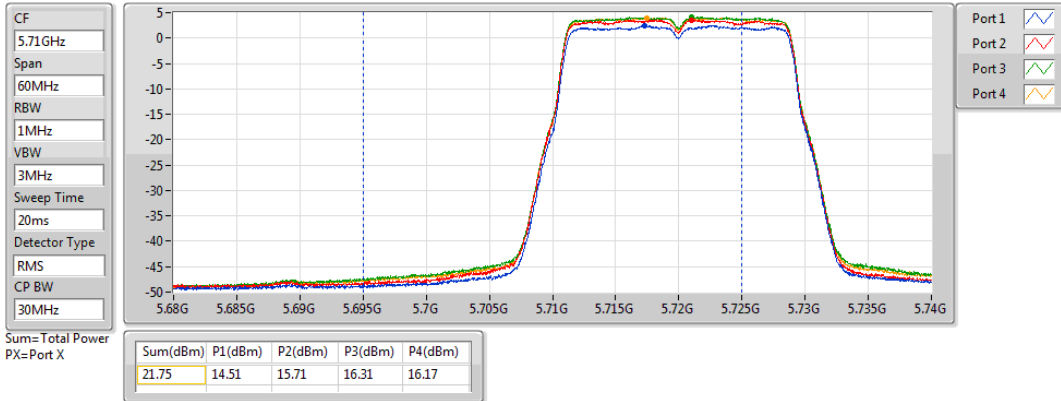
DG = Directional Gain; **Port X** = Port X output power

802.11ac VHT20-BF_Nss1,(MCS0)_4TX

AV Power

5720MHz Straddle 5.47-5.725GHz

19/09/2019

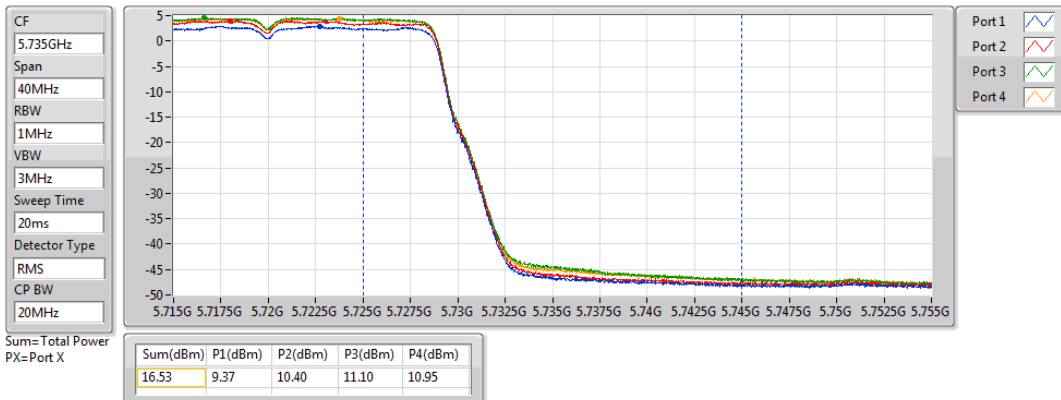


802.11ac VHT20-BF_Nss1,(MCS0)_4TX

AV Power

5720MHz Straddle 5.725-5.85GHz

19/09/2019

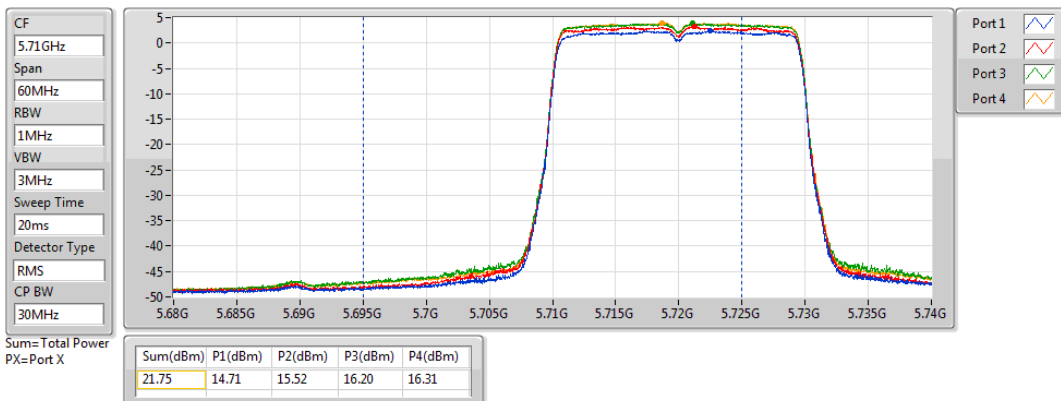


802.11ax HEW20-BF_Nss1,(MCS0)_4TX

AV Power

5720MHz Straddle 5.47-5.725GHz

19/09/2019

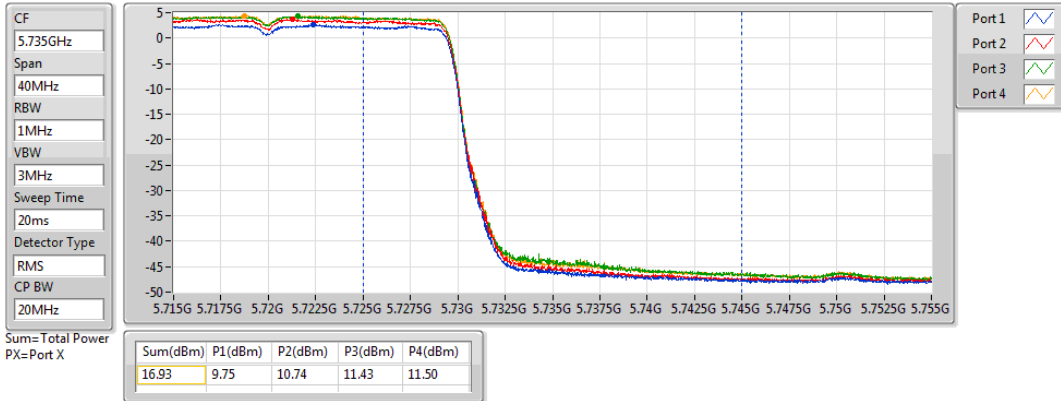


802.11ax HEW20-BF_Nss1,(MCS0)_4TX

AV Power

5720MHz Straddle 5.725-5.85GHz

19/09/2019

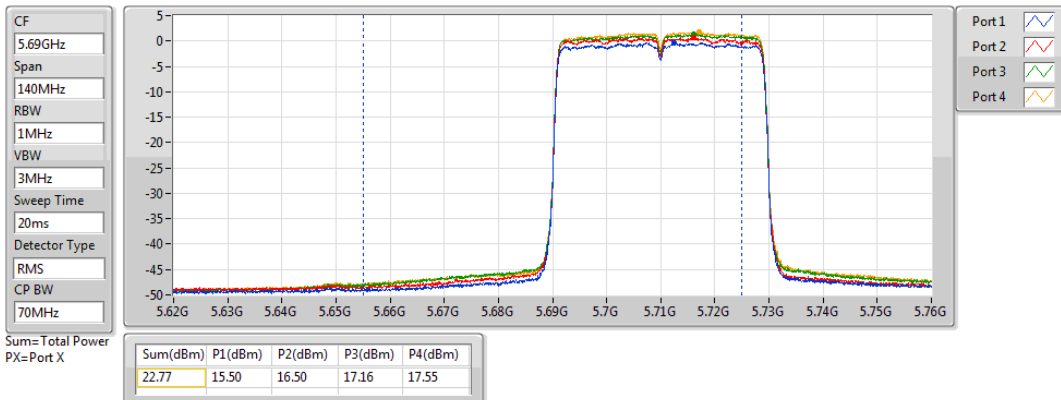


802.11ac VHT40-BF_Nss1,(MCS0)_4TX

AV Power

5710MHz Straddle 5.47-5.725GHz

19/09/2019

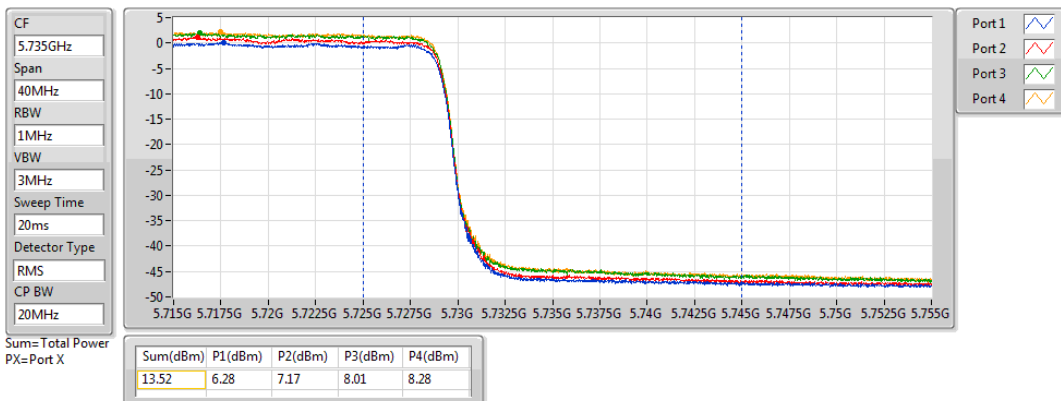


802.11ac VHT40-BF_Nss1,(MCS0)_4TX

AV Power

5710MHz Straddle 5.725-5.85GHz

19/09/2019

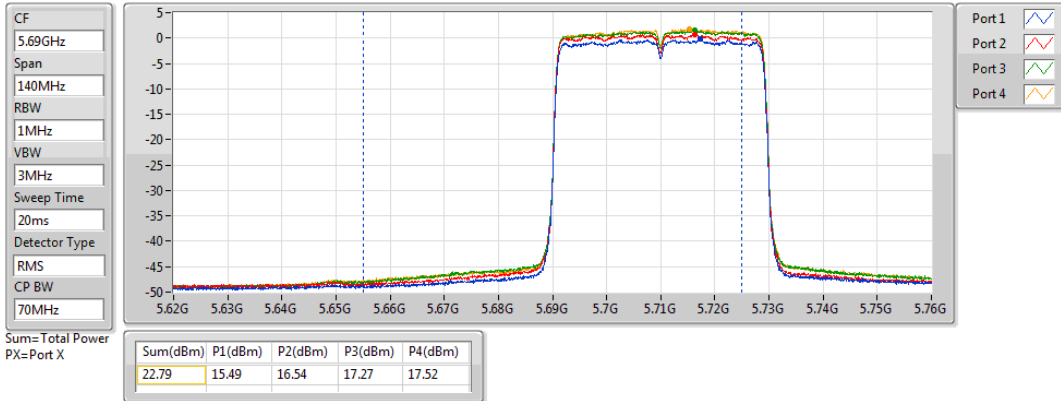


802.11ax HEW40-BF_Nss1,(MCS0)_4TX

AV Power

5710MHz Straddle 5.47-5.725GHz

19/09/2019

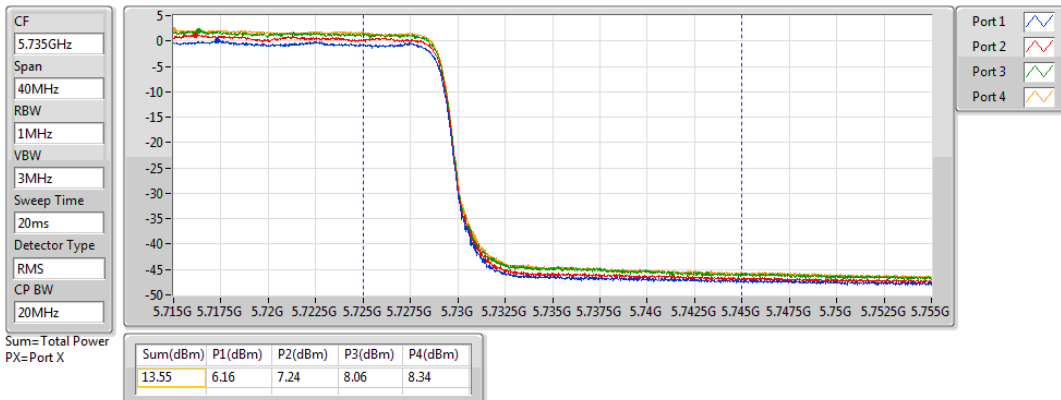


802.11ax HEW40-BF_Nss1,(MCS0)_4TX

AV Power

5710MHz Straddle 5.725-5.85GHz

19/09/2019

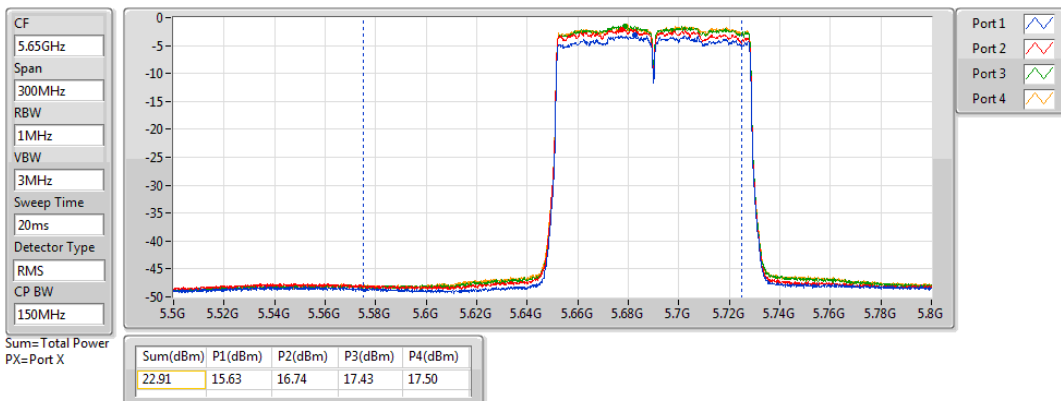


802.11ac VHT80-BF_Nss1,(MCS0)_4TX

AV Power

5690MHz Straddle 5.47-5.725GHz

19/09/2019

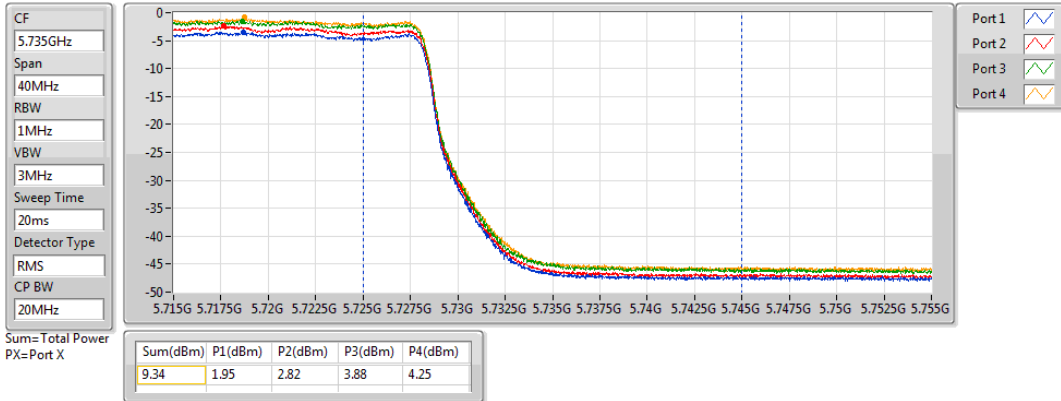


802.11ac VHT80-BF_Nss1,(MCS0)_4TX

AV Power

5690MHz Straddle 5.725-5.85GHz

19/09/2019

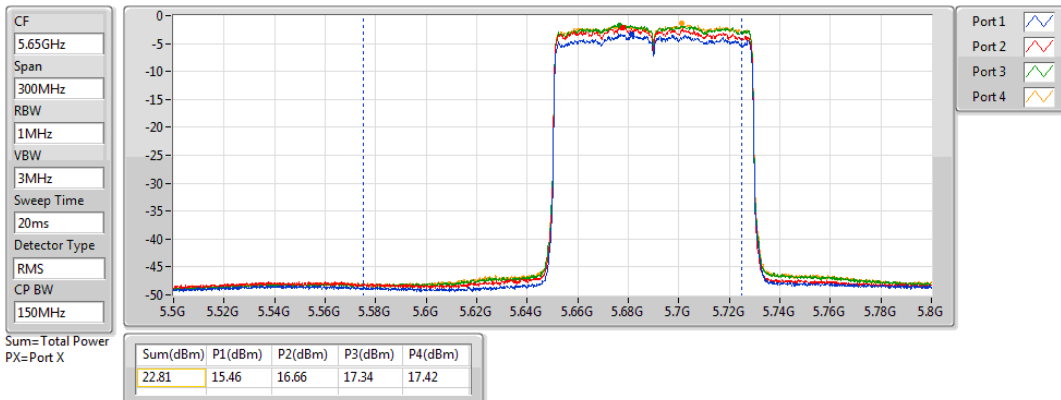


802.11ax HEW80-BF_Nss1,(MCS0)_4TX

AV Power

5690MHz Straddle 5.47-5.725GHz

19/09/2019

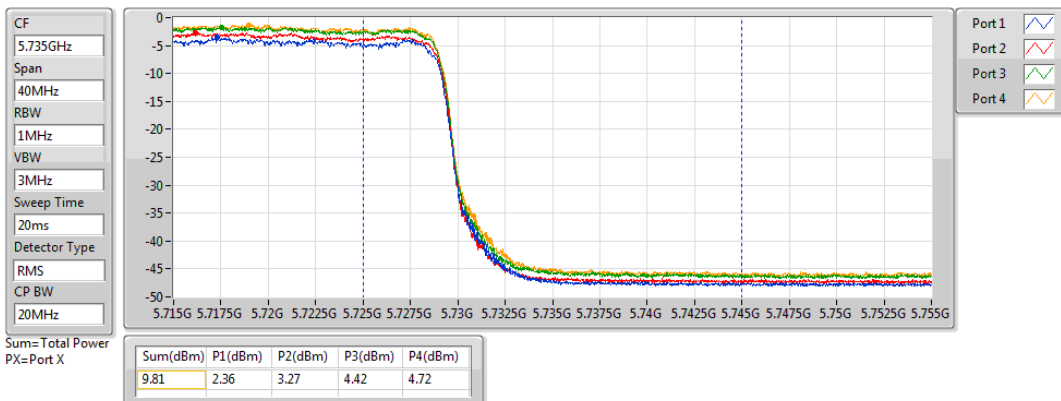


802.11ax HEW80-BF_Nss1,(MCS0)_4TX

AV Power

5690MHz Straddle 5.725-5.85GHz

19/09/2019

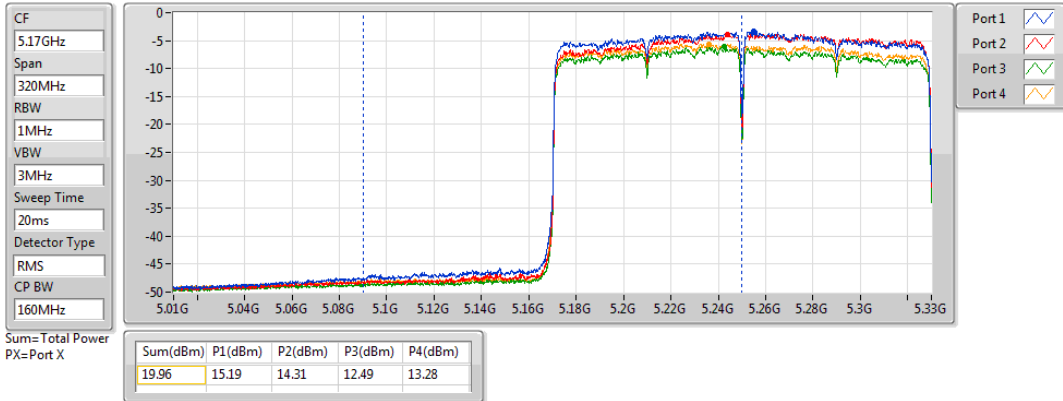


802.11ax HEW160-BF_Nss1,(MCS0)_4TX

AV Power

5250MHz Straddle 5.15-5.25GHz

19/09/2019

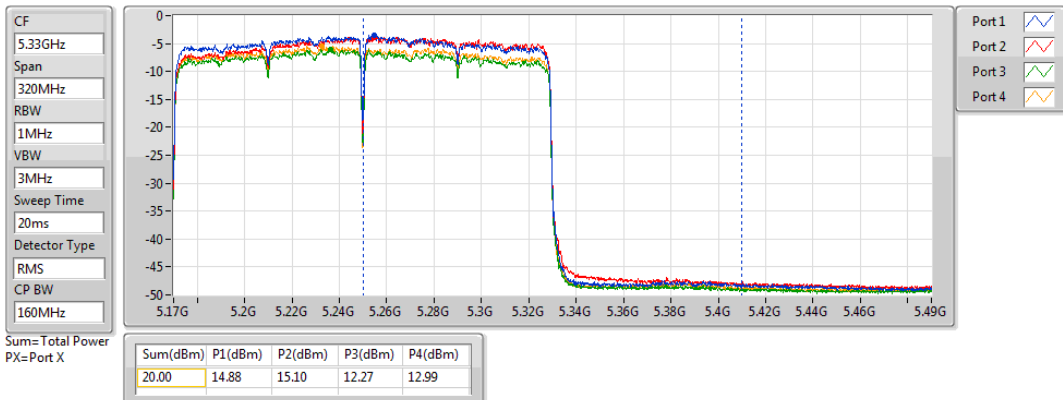


802.11ax HEW160-BF_Nss1,(MCS0)_4TX

AV Power

5250MHz Straddle 5.25-5.35GHz

19/09/2019



Summary

Mode	PD (dBm/RBW)
5.15-5.25GHz	-
802.11ax HEW160_Nss1,(MCS0)_4TX	1.51
5.25-5.35GHz	-
802.11a_Nss1,(6Mbps)_4TX	9.30
802.11ac VHT20_Nss1,(MCS0)_4TX	9.27
802.11ac VHT40_Nss1,(MCS0)_4TX	7.88
802.11ac VHT80_Nss1,(MCS0)_4TX	5.12
802.11ax HEW20_Nss1,(MCS0)_4TX	9.30
802.11ax HEW40_Nss1,(MCS0)_4TX	7.81
802.11ax HEW80_Nss1,(MCS0)_4TX	5.02
802.11ax HEW160_Nss1,(MCS0)_4TX	1.42
5.47-5.725GHz	-
802.11a_Nss1,(6Mbps)_4TX	9.87
802.11ac VHT20_Nss1,(MCS0)_4TX	9.87
802.11ac VHT40_Nss1,(MCS0)_4TX	7.83
802.11ac VHT80_Nss1,(MCS0)_4TX	5.24
802.11ax HEW20_Nss1,(MCS0)_4TX	9.93
802.11ax HEW40_Nss1,(MCS0)_4TX	8.22
802.11ax HEW80_Nss1,(MCS0)_4TX	5.32
802.11ax HEW160_Nss1,(MCS0)_4TX	0.11
5.725-5.85GHz	-
802.11a_Nss1,(6Mbps)_4TX	6.71
802.11ac VHT20_Nss1,(MCS0)_4TX	8.01
802.11ac VHT40_Nss1,(MCS0)_4TX	5.79
802.11ac VHT80_Nss1,(MCS0)_4TX	2.42
802.11ax HEW20_Nss1,(MCS0)_4TX	8.24
802.11ax HEW40_Nss1,(MCS0)_4TX	6.42
802.11ax HEW80_Nss1,(MCS0)_4TX	2.49

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	7.69	3.69	3.78	2.80	2.41	9.03	9.31
5300MHz	Pass	7.69	3.90	3.91	3.02	3.07	9.26	9.31
5320MHz	Pass	7.69	3.96	3.83	3.16	2.75	9.30	9.31
5500MHz	Pass	7.02	3.76	4.05	4.12	4.41	9.87	9.98
5580MHz	Pass	7.02	3.38	3.86	3.47	4.71	9.70	9.98
5700MHz	Pass	7.02	3.96	3.93	3.79	4.06	9.66	9.98
5720MHz Straddle 5.47-5.725GHz	Pass	7.02	4.01	4.34	4.01	3.81	9.83	9.98
5720MHz Straddle 5.725-5.85GHz	Pass	6.21	0.80	0.92	1.21	0.60	6.71	29.79
802.11ac VHT20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5260MHz	Pass	7.69	4.00	3.61	3.15	2.44	9.19	9.31
5300MHz	Pass	7.69	3.76	3.52	3.45	2.61	9.22	9.31
5320MHz	Pass	7.69	3.63	3.58	3.41	2.65	9.27	9.31
5500MHz	Pass	7.02	3.41	3.87	4.04	4.23	9.73	9.98
5580MHz	Pass	7.02	3.32	3.91	4.12	4.56	9.87	9.98
5700MHz	Pass	7.02	3.44	3.48	3.29	3.37	9.17	9.98
5720MHz Straddle 5.47-5.725GHz	Pass	7.02	3.88	4.09	3.67	3.77	9.66	9.98
5720MHz Straddle 5.725-5.85GHz	Pass	6.21	2.25	2.46	2.19	2.08	8.01	29.79
802.11ac VHT40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5270MHz	Pass	7.69	2.69	2.10	1.90	1.39	7.76	9.31
5310MHz	Pass	7.69	2.62	2.22	1.82	1.33	7.88	9.31
5510MHz	Pass	7.02	1.26	1.63	1.95	2.14	7.65	9.98
5550MHz	Pass	7.02	1.10	1.72	1.93	2.32	7.68	9.98
5670MHz	Pass	7.02	1.95	1.72	1.64	2.45	7.83	9.98
5710MHz Straddle 5.47-5.725GHz	Pass	7.02	1.96	2.03	1.69	2.14	7.81	9.98
5710MHz Straddle 5.725-5.85GHz	Pass	6.21	0.31	-0.20	-0.42	0.36	5.79	29.79
802.11ac VHT80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5290MHz	Pass	7.69	-0.51	-0.31	-1.19	-1.19	5.12	9.31
5530MHz	Pass	7.02	-1.11	-0.75	-0.34	-0.09	5.24	9.98
5610MHz	Pass	7.02	-0.68	-1.00	-0.65	-0.49	5.13	9.98
5690MHz Straddle 5.47-5.725GHz	Pass	7.02	-0.76	-0.65	-0.89	-0.88	4.92	9.98
5690MHz Straddle 5.725-5.85GHz	Pass	6.21	-3.41	-3.53	-3.47	-2.88	2.42	29.79
802.11ax HEW20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5260MHz	Pass	7.69	4.16	3.53	3.36	2.63	9.28	9.31
5300MHz	Pass	7.69	3.97	3.37	3.44	2.87	9.27	9.31
5320MHz	Pass	7.69	3.96	3.54	3.44	2.78	9.30	9.31
5500MHz	Pass	7.02	3.53	4.05	4.14	4.36	9.93	9.98
5580MHz	Pass	7.02	3.43	3.89	4.25	4.42	9.85	9.98
5700MHz	Pass	7.02	3.55	3.36	3.15	3.36	9.12	9.98
5720MHz Straddle 5.47-5.725GHz	Pass	7.02	4.07	4.36	3.80	4.02	9.82	9.98
5720MHz Straddle 5.725-5.85GHz	Pass	6.21	2.53	2.67	2.17	2.18	8.24	29.79
802.11ax HEW40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5270MHz	Pass	7.69	2.55	1.75	1.70	1.42	7.70	9.31
5310MHz	Pass	7.69	2.70	1.96	1.78	1.33	7.81	9.31

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)
5510MHz	Pass	7.02	1.49	1.42	2.25	2.47	7.77	9.98
5550MHz	Pass	7.02	1.41	1.71	2.19	2.51	7.79	9.98
5670MHz	Pass	7.02	2.08	1.79	1.77	2.40	7.84	9.98
5710MHz Straddle 5.47-5.725GHz	Pass	7.02	2.37	2.17	2.19	2.99	8.22	9.98
5710MHz Straddle 5.725-5.85GHz	Pass	6.21	0.76	0.15	0.05	1.07	6.42	29.79
802.11ax HEW80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5290MHz	Pass	7.69	-0.68	-0.28	-1.14	-1.14	5.02	9.31
5530MHz	Pass	7.02	-1.21	-1.19	-0.56	-0.13	5.08	9.98
5610MHz	Pass	7.02	-0.46	-0.75	-0.43	-0.42	5.32	9.98
5690MHz Straddle 5.47-5.725GHz	Pass	7.02	-0.92	-1.01	-0.87	-0.65	5.01	9.98
5690MHz Straddle 5.725-5.85GHz	Pass	6.21	-3.44	-3.80	-3.39	-3.02	2.49	29.79
802.11ax HEW160_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	7.48	-3.38	-4.21	-5.39	-4.88	1.51	15.52
5250MHz Straddle 5.25-5.35GHz	Pass	7.69	-3.22	-3.64	-5.65	-5.41	1.42	9.31
5570MHz	Pass	7.02	-4.95	-5.44	-6.47	-5.94	0.11	9.98

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

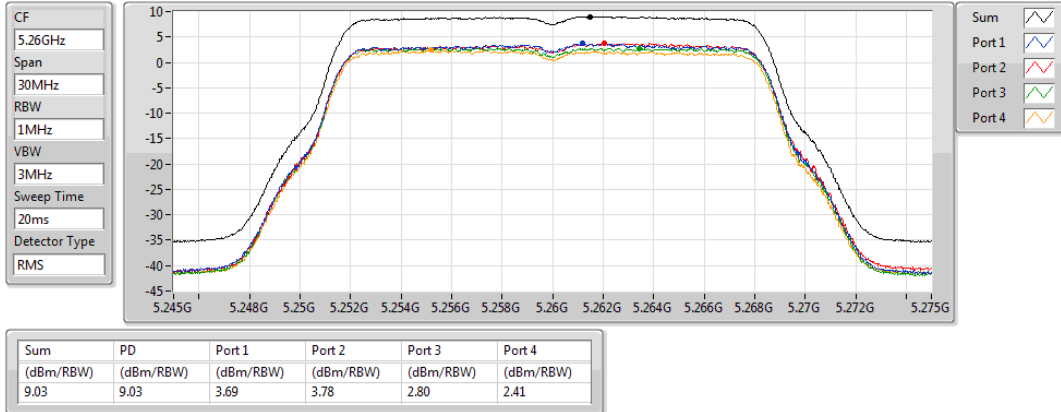
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; **Port X** = Port X power density;

802.11a_Nss1,(6Mbps)_4TX

PSD

5260MHz

11/09/2019

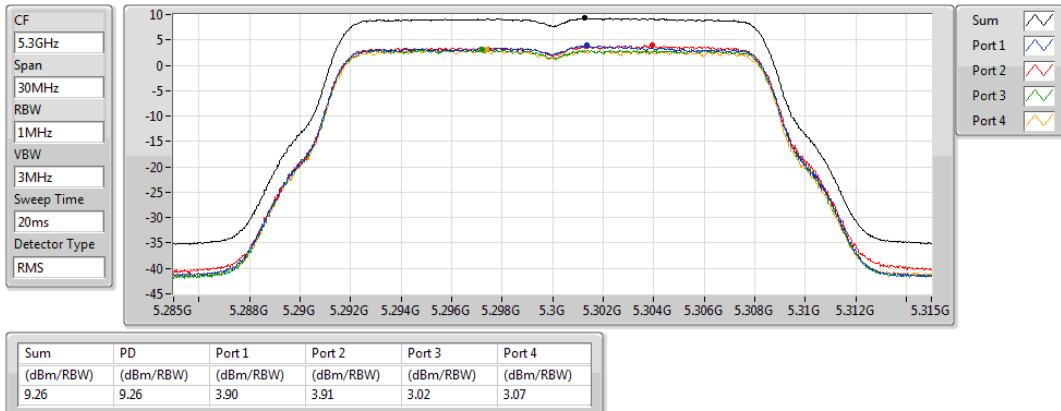


802.11a_Nss1,(6Mbps)_4TX

PSD

5300MHz

11/09/2019

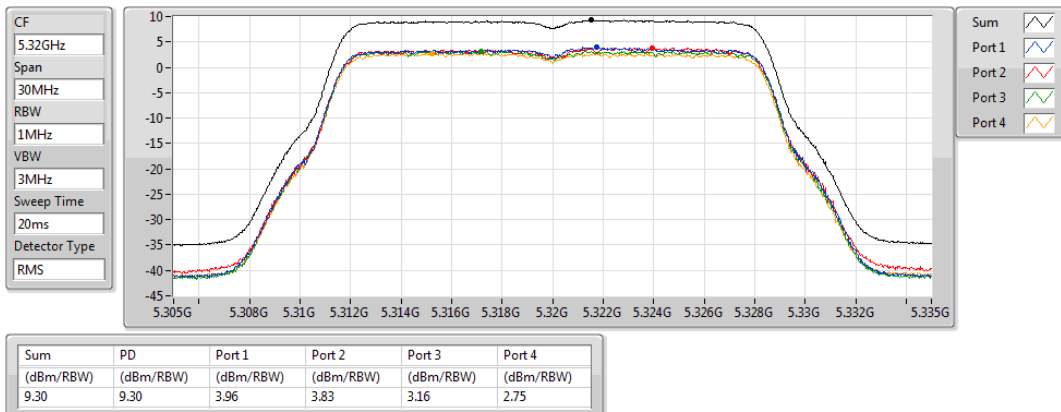


802.11a_Nss1,(6Mbps)_4TX

PSD

5320MHz

11/09/2019

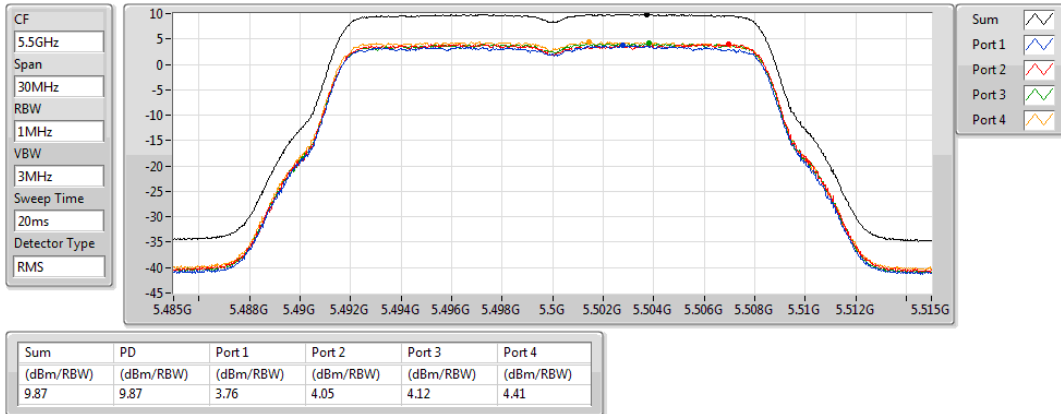


802.11a_Nss1,(6Mbps)_4TX

PSD

5500MHz

11/09/2019

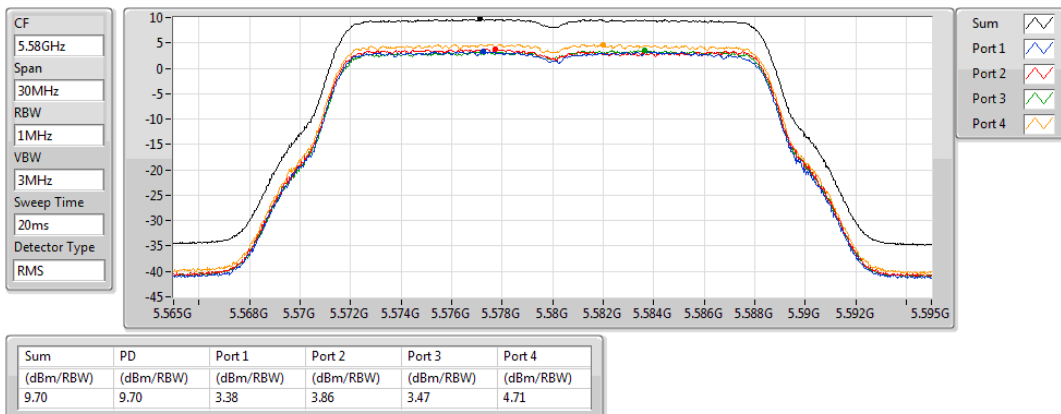


802.11a_Nss1,(6Mbps)_4TX

PSD

5580MHz

11/09/2019

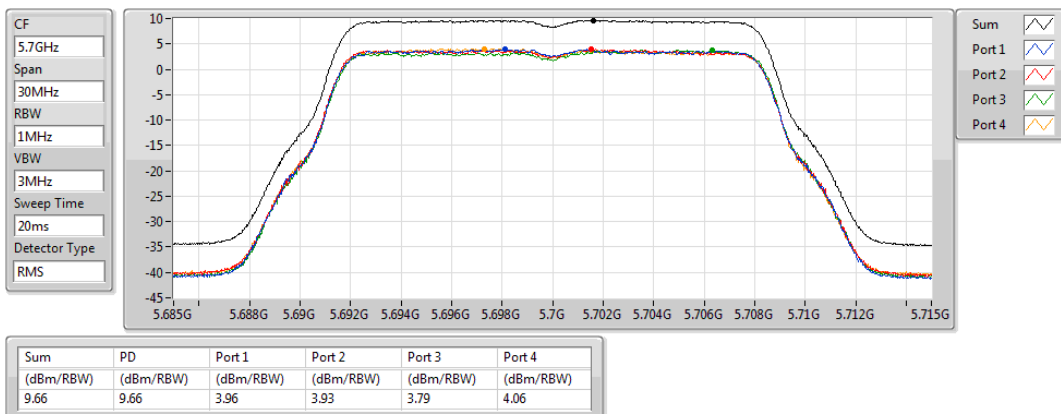


802.11a_Nss1,(6Mbps)_4TX

PSD

5700MHz

11/09/2019

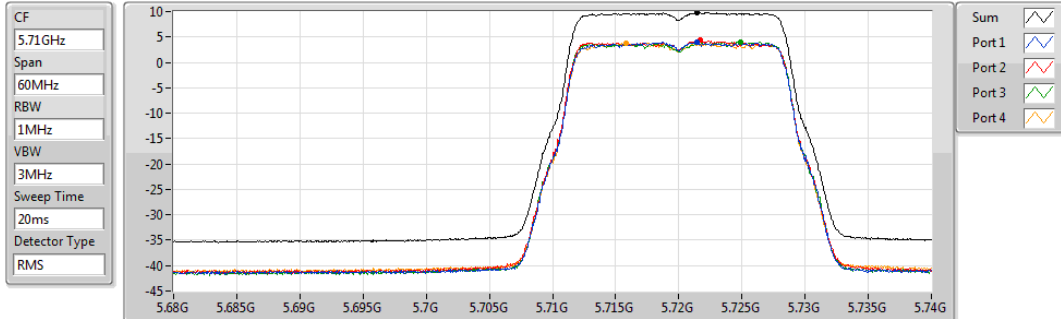


802.11a_Nss1,(6Mbps)_4TX

PSD

5720MHz Straddle 5.47-5.725GHz

11/09/2019



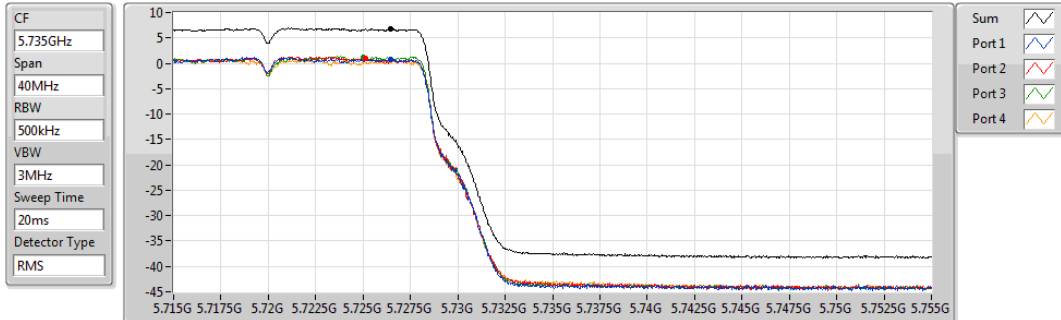
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
9.83	9.83	4.01	4.34	4.01	3.81

802.11a_Nss1,(6Mbps)_4TX

PSD

5720MHz Straddle 5.725-5.85GHz

11/09/2019



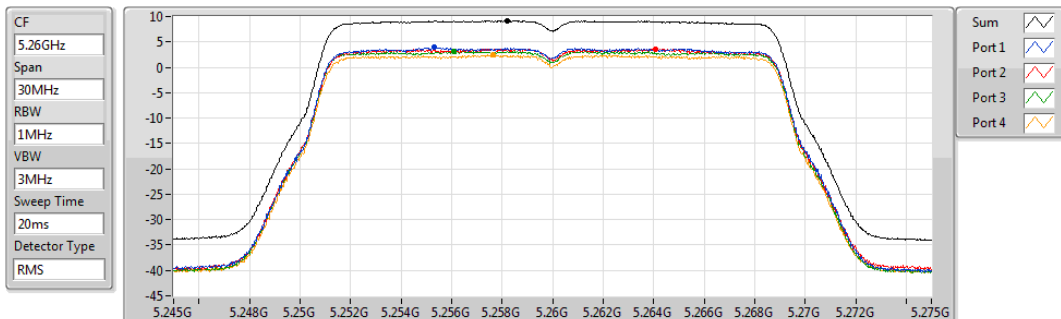
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
6.71	6.71	0.80	0.92	1.21	0.60

802.11ac VHT20_Nss1,(MCS0)_4TX

PSD

5260MHz

12/09/2019



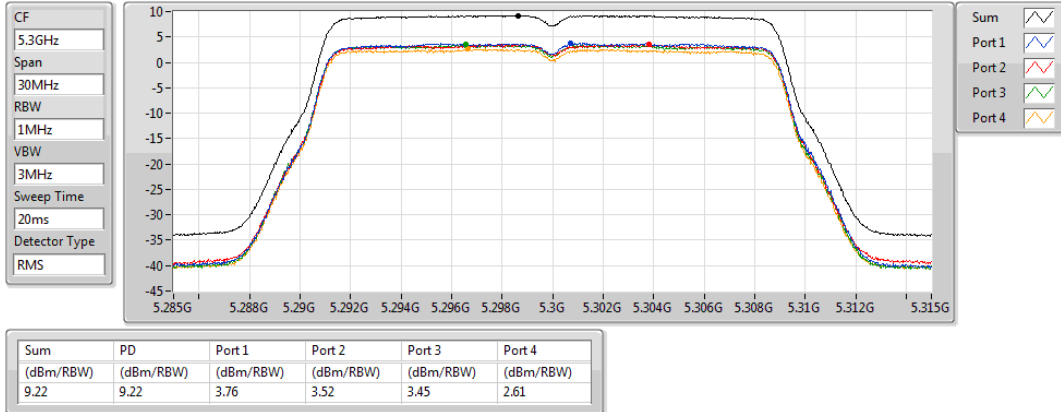
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
9.19	9.19	4.00	3.61	3.15	2.44

802.11ac VHT20_Nss1,(MCS0)_4TX

PSD

5300MHz

12/09/2019

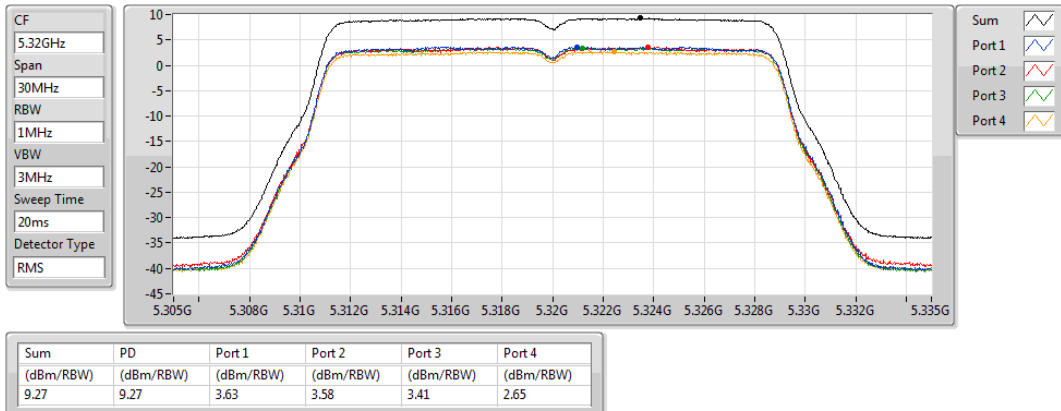


802.11ac VHT20_Nss1,(MCS0)_4TX

PSD

5320MHz

12/09/2019

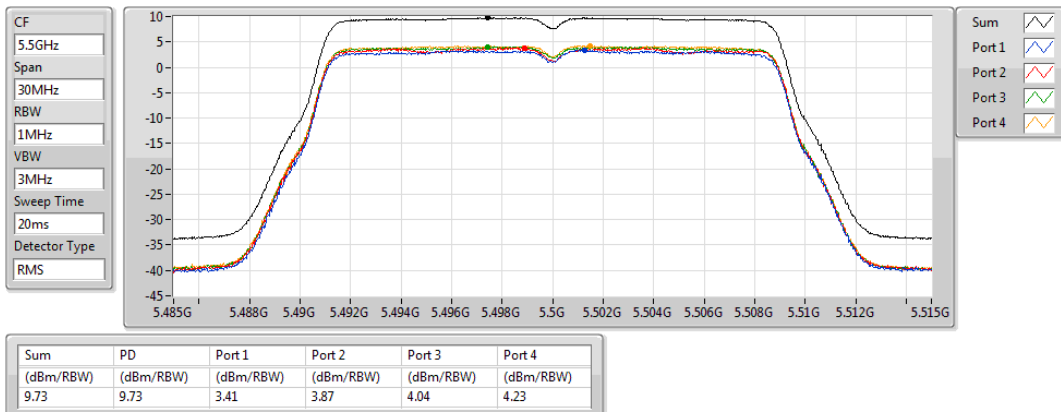


802.11ac VHT20_Nss1,(MCS0)_4TX

PSD

5500MHz

12/09/2019

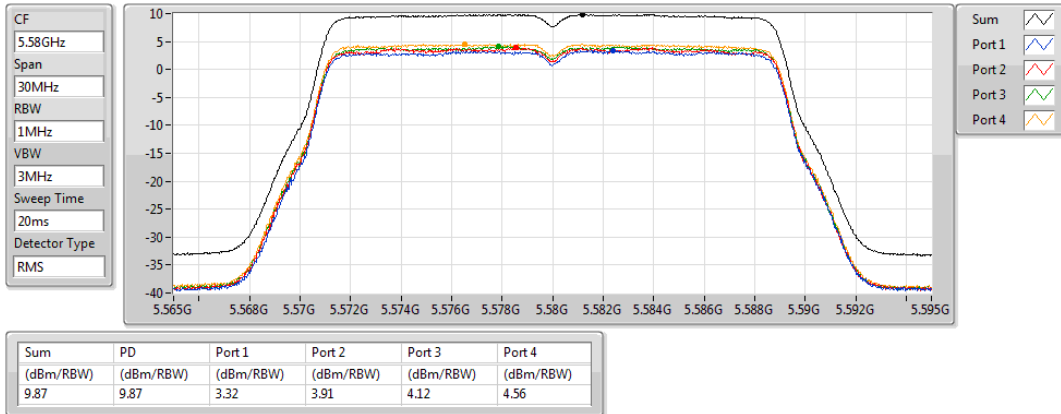


802.11ac VHT20_Nss1,(MCS0)_4TX

PSD

5580MHz

12/09/2019

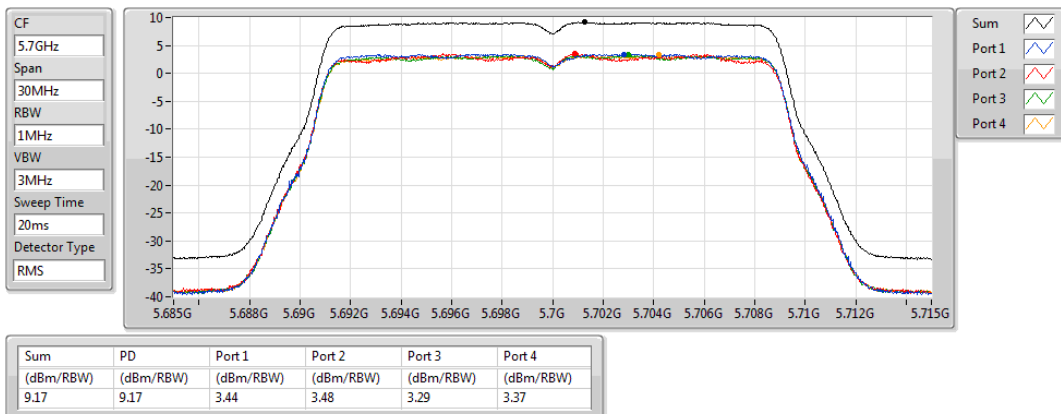


802.11ac VHT20_Nss1,(MCS0)_4TX

PSD

5700MHz

12/09/2019

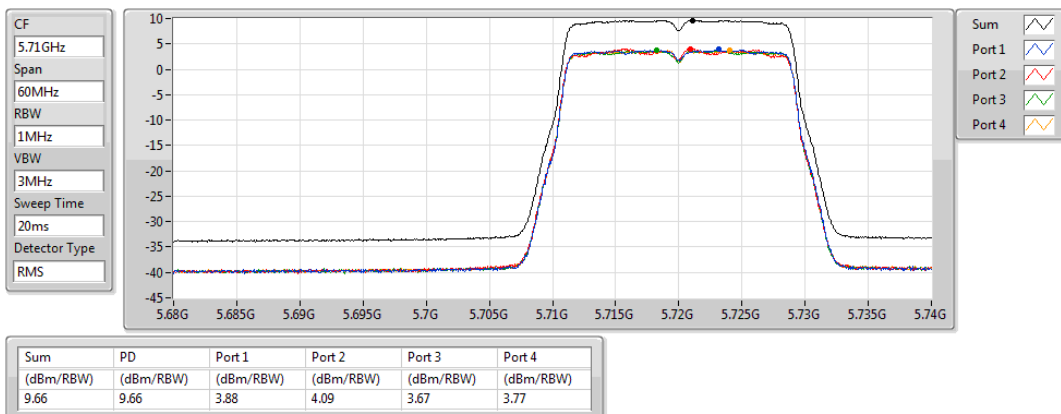


802.11ac VHT20_Nss1,(MCS0)_4TX

PSD

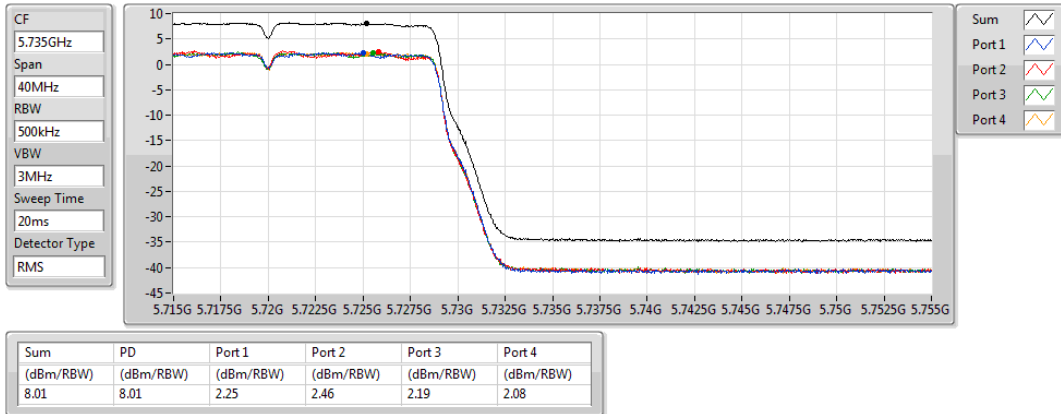
5720MHz Straddle 5.47-5.725GHz

12/09/2019

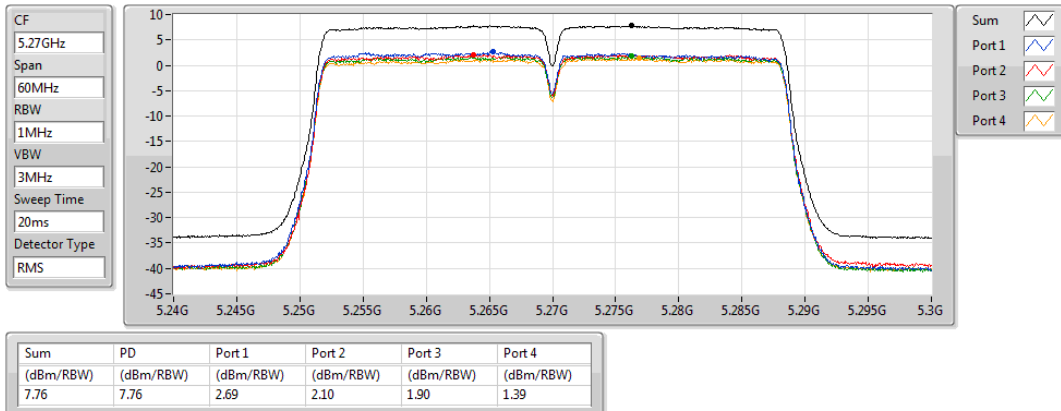


802.11ac VHT20_Nss1,(MCS0)_4TX**PSD****5720MHz Straddle 5.725-5.85GHz**

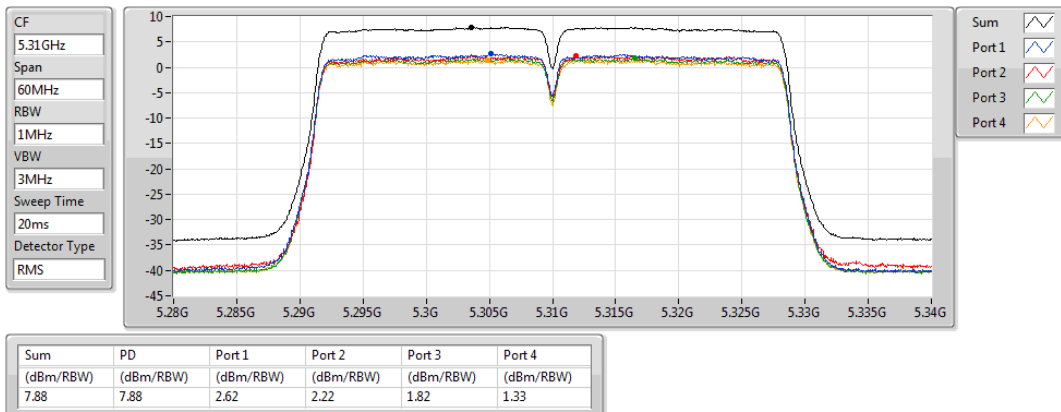
12/09/2019

**802.11ac VHT40_Nss1,(MCS0)_4TX****PSD****5270MHz**

12/09/2019

**802.11ac VHT40_Nss1,(MCS0)_4TX****PSD****5310MHz**

12/09/2019

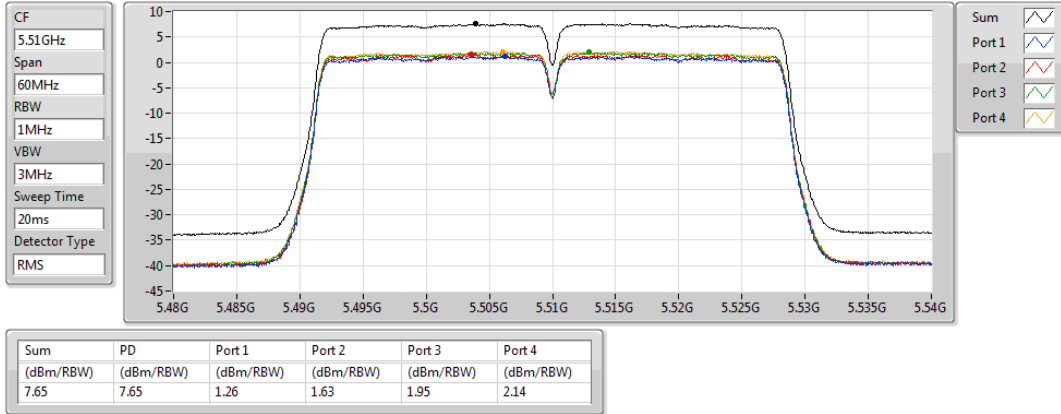


802.11ac VHT40_Nss1,(MCS0)_4TX

PSD

5510MHz

12/09/2019

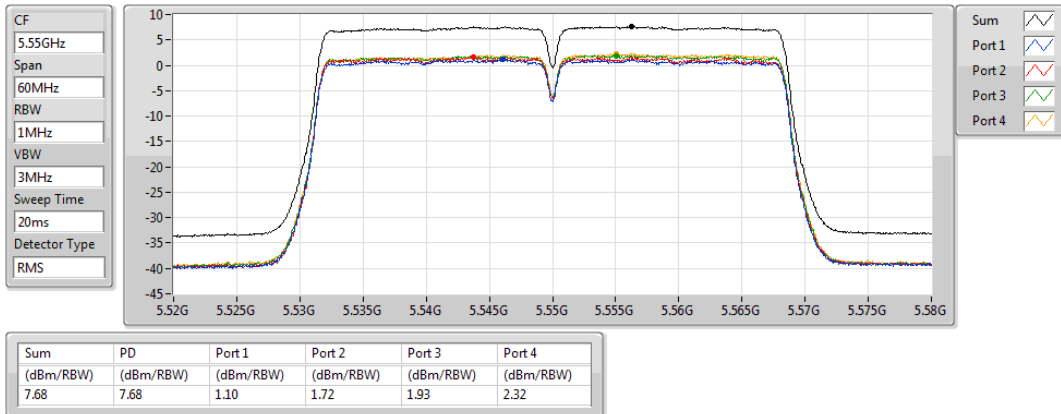


802.11ac VHT40_Nss1,(MCS0)_4TX

PSD

5550MHz

12/09/2019

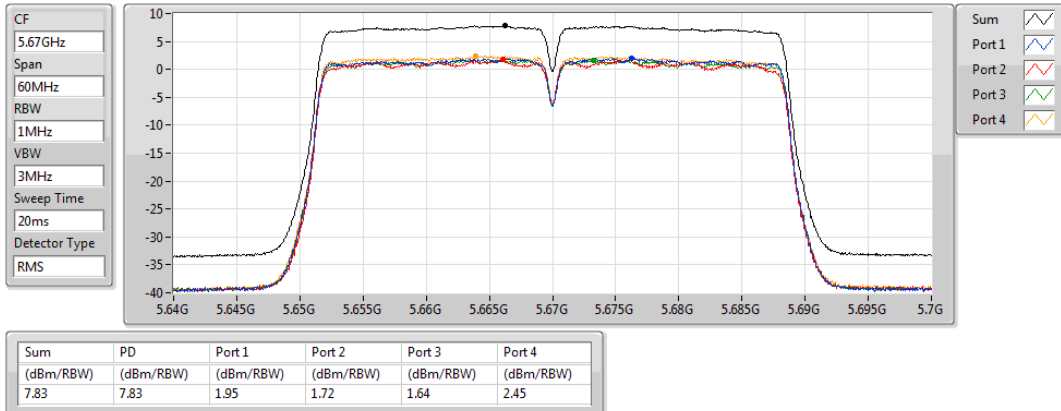


802.11ac VHT40_Nss1,(MCS0)_4TX

PSD

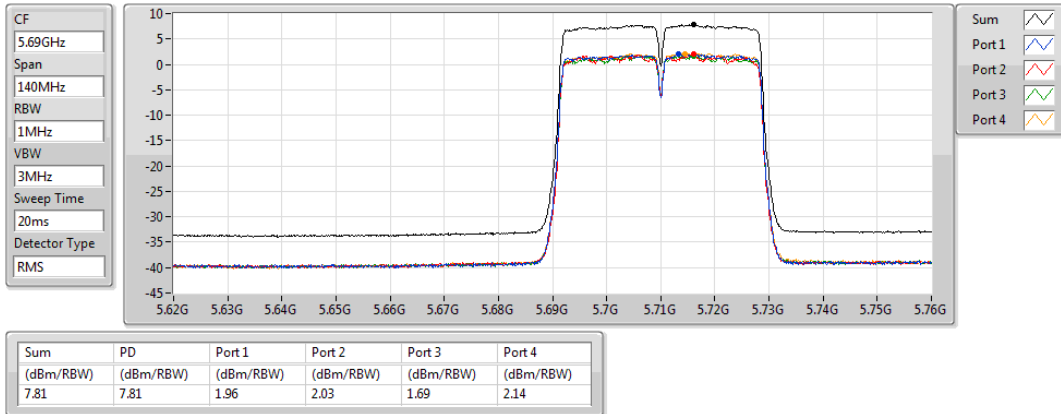
5670MHz

12/09/2019

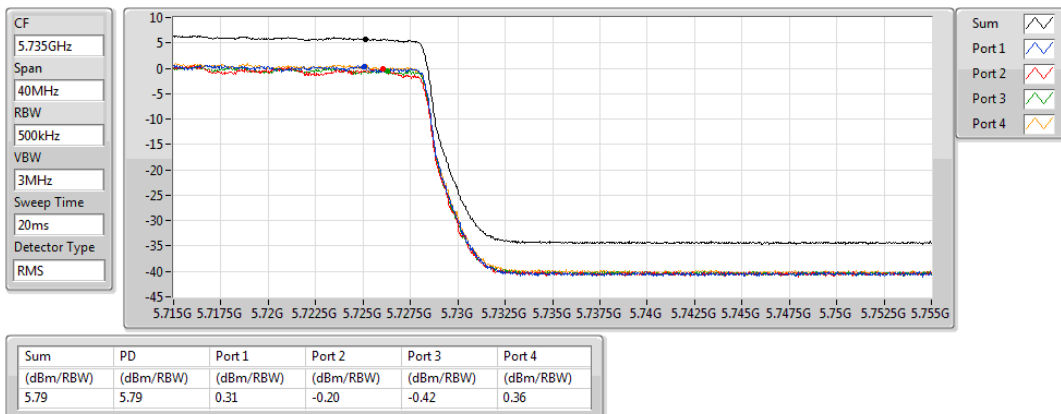


802.11ac VHT40_Nss1,(MCS0)_4TX**PSD****5710MHz Straddle 5.47-5.725GHz**

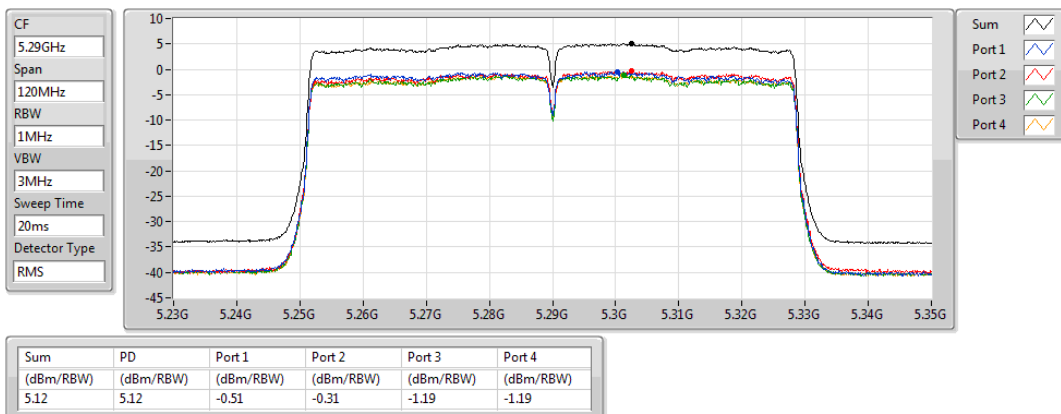
12/09/2019

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

12/09/2019

**802.11ac VHT80_Nss1,(MCS0)_4TX****PSD****5290MHz**

12/09/2019

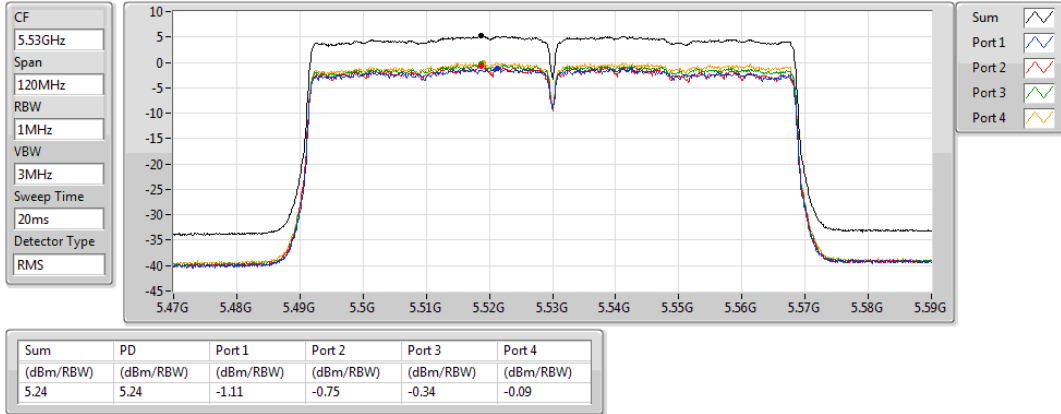


802.11ac VHT80_Nss1,(MCS0)_4TX

PSD

5530MHz

12/09/2019

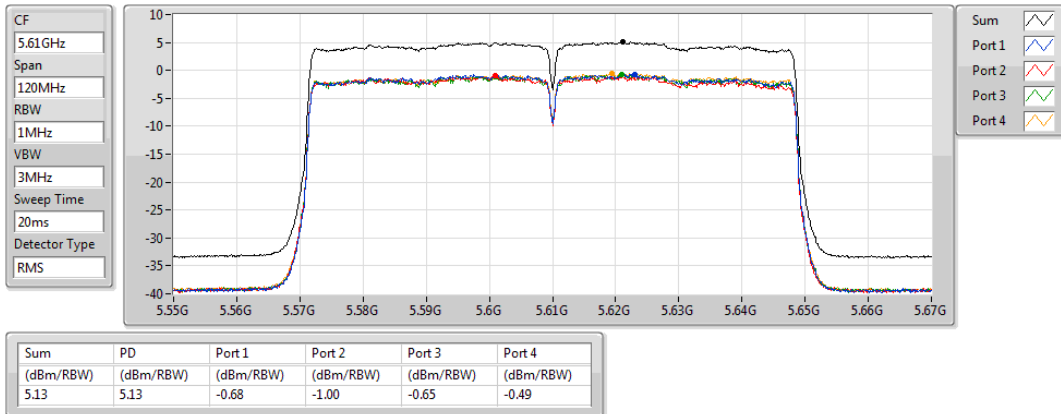


802.11ac VHT80_Nss1,(MCS0)_4TX

PSD

5610MHz

12/09/2019

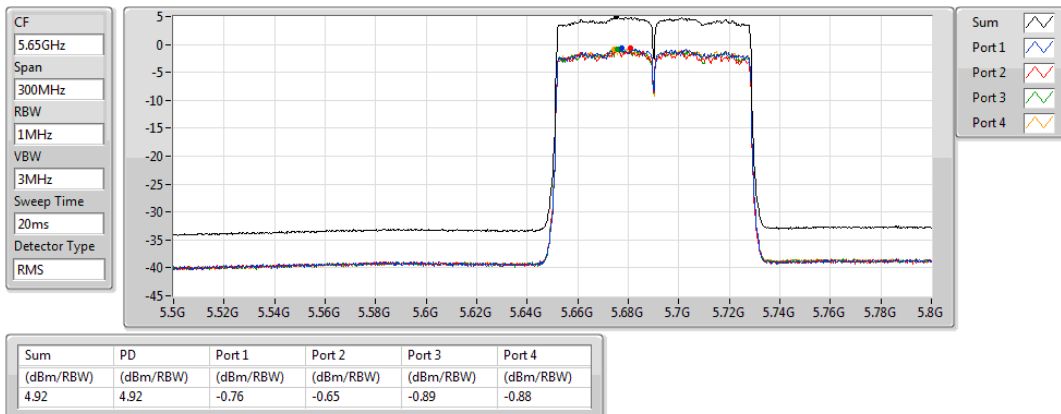


802.11ac VHT80_Nss1,(MCS0)_4TX

PSD

5690MHz Straddle 5.47-5.725GHz

12/09/2019

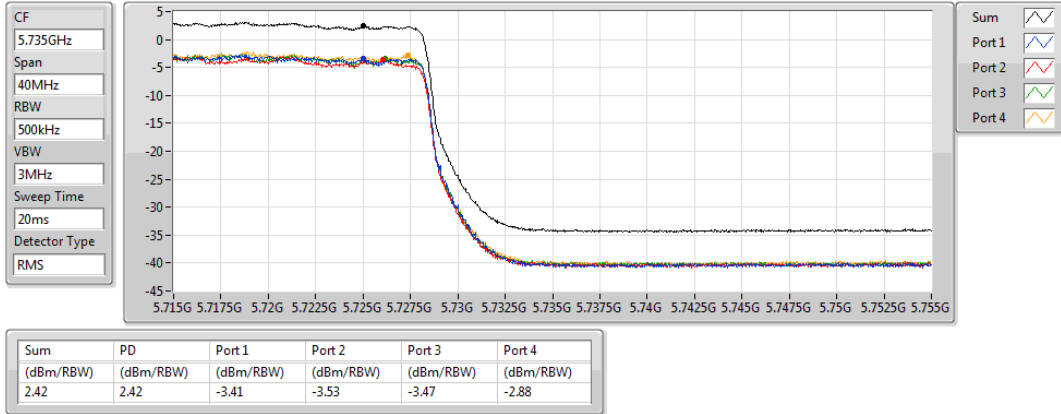


802.11ac VHT80_Nss1,(MCS0)_4TX

5690MHz Straddle 5.725-5.85GHz

PSD

12/09/2019

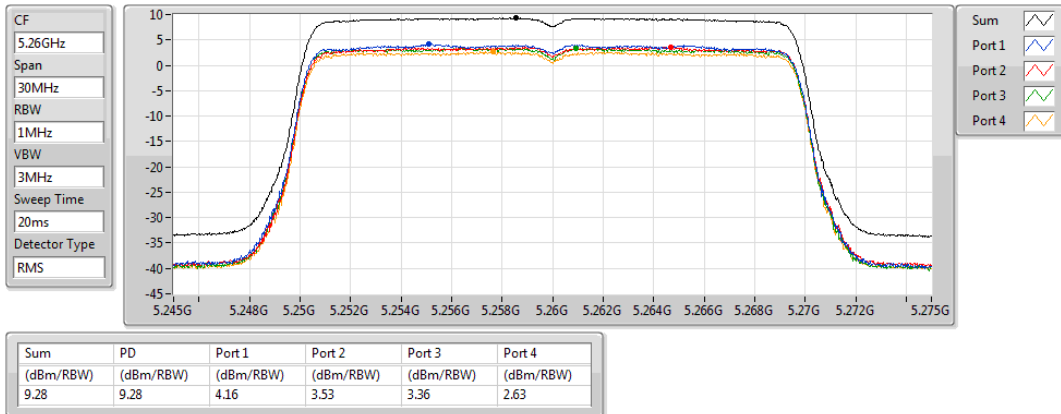


802.11ax HEW20_Nss1,(MCS0)_4TX

5260MHz

PSD

12/09/2019

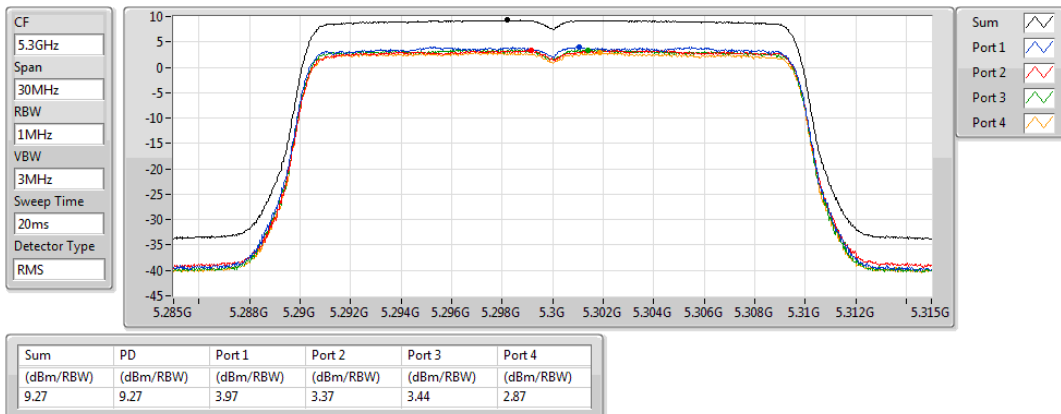


802.11ax HEW20_Nss1,(MCS0)_4TX

5300MHz

PSD

12/09/2019

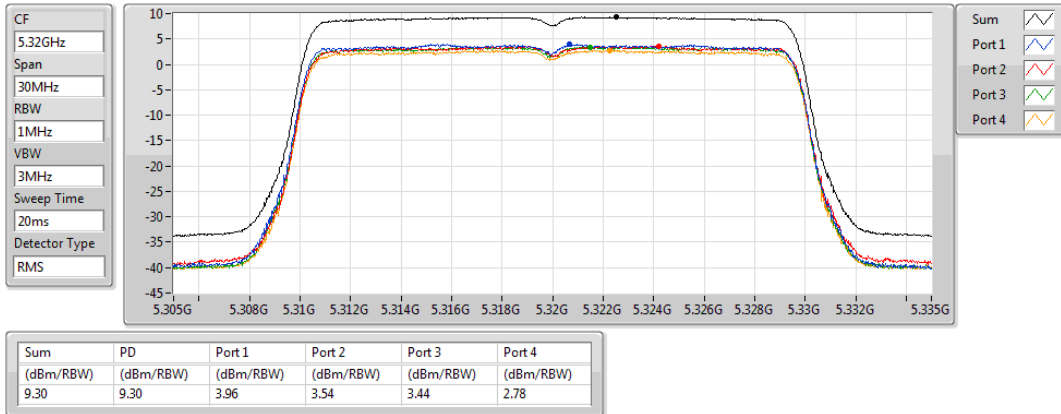


802.11ax HEW20_Nss1,(MCS0)_4TX

PSD

5320MHz

12/09/2019

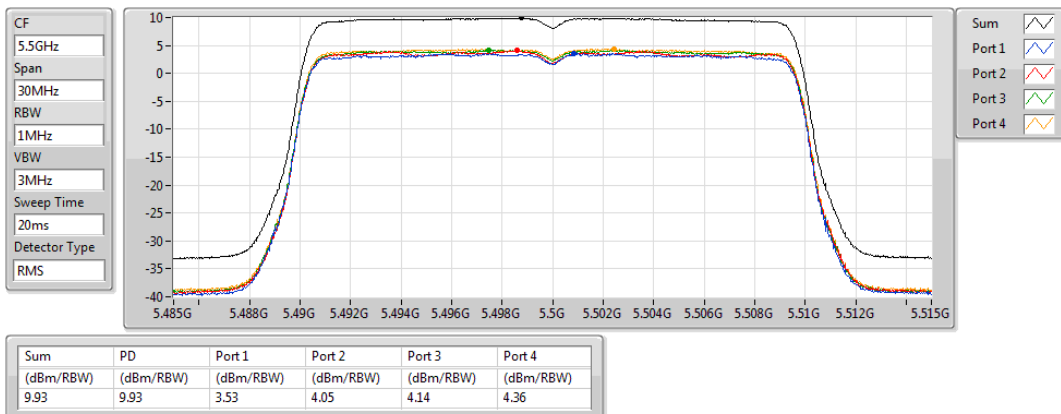


802.11ax HEW20_Nss1,(MCS0)_4TX

PSD

5500MHz

18/09/2019

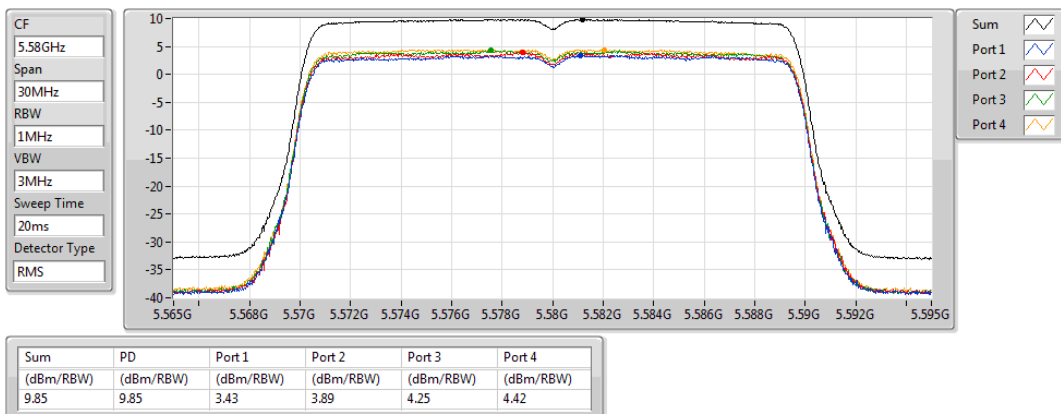


802.11ax HEW20_Nss1,(MCS0)_4TX

PSD

5580MHz

12/09/2019

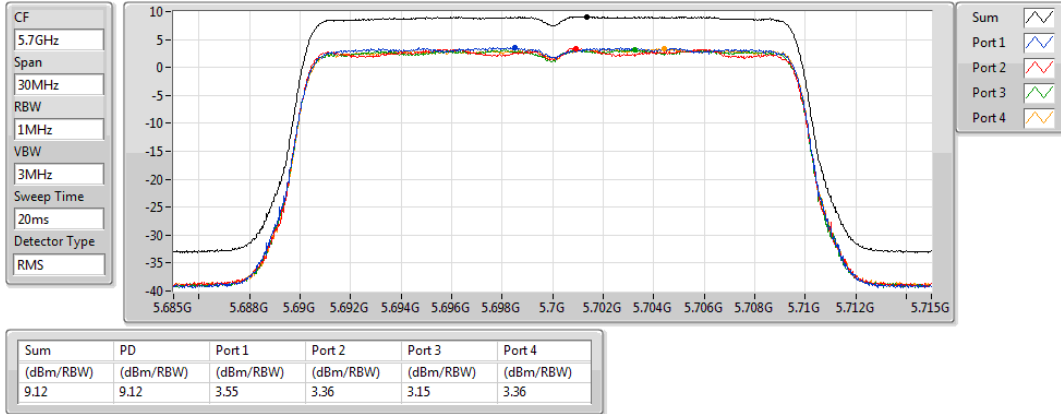


802.11ax HEW20_Nss1,(MCS0)_4TX

PSD

5700MHz

12/09/2019

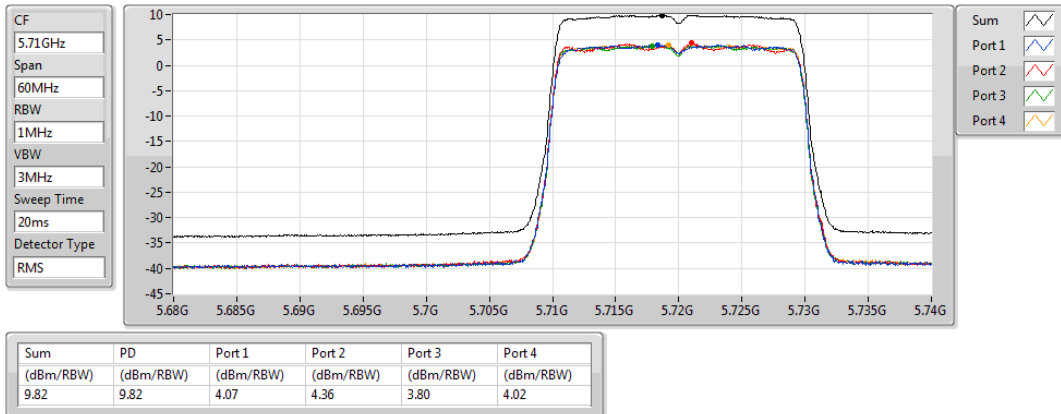


802.11ax HEW20_Nss1,(MCS0)_4TX

PSD

5720MHz Straddle 5.47-5.725GHz

12/09/2019

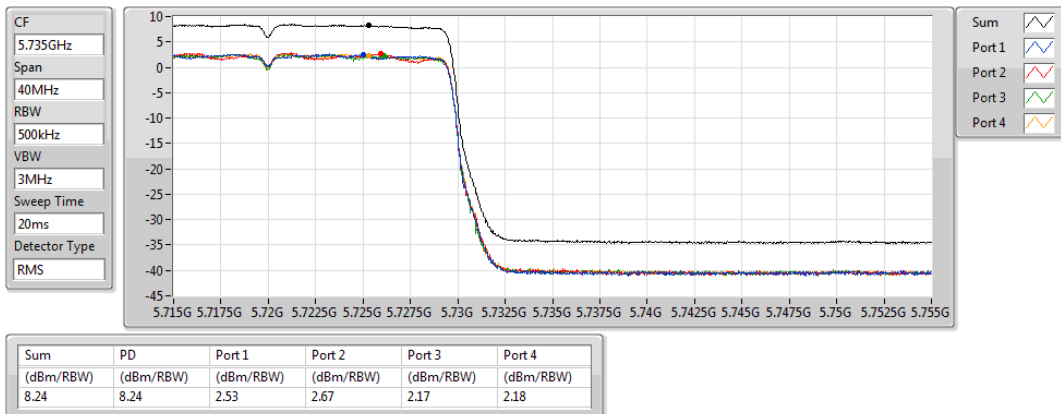


802.11ax HEW20_Nss1,(MCS0)_4TX

PSD

5720MHz Straddle 5.725-5.85GHz

12/09/2019

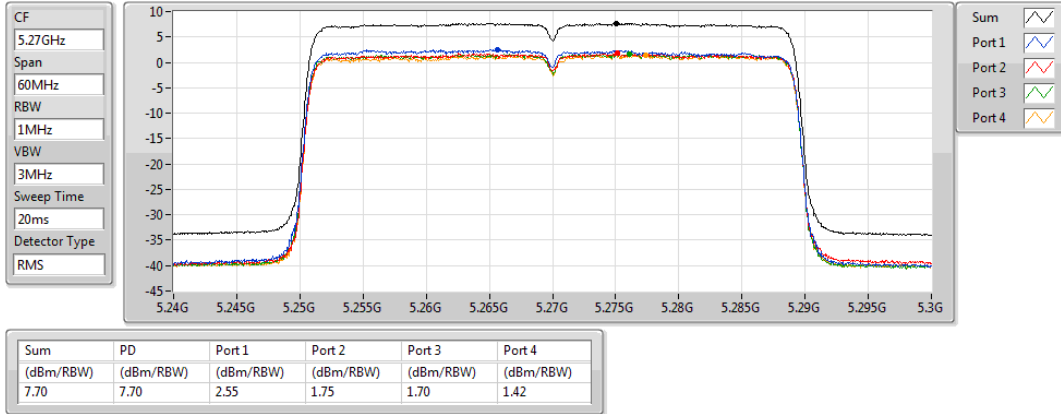


802.11ax HEW40_Nss1,(MCS0)_4TX

PSD

5270MHz

12/09/2019

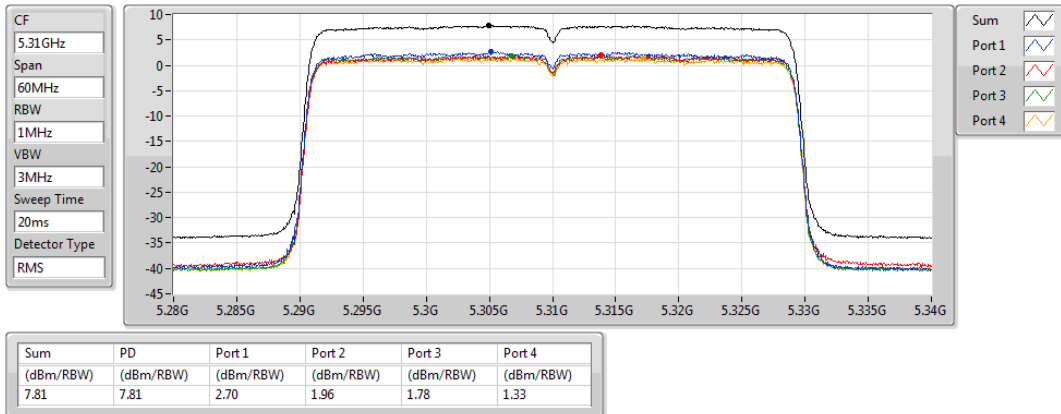


802.11ax HEW40_Nss1,(MCS0)_4TX

PSD

5310MHz

12/09/2019

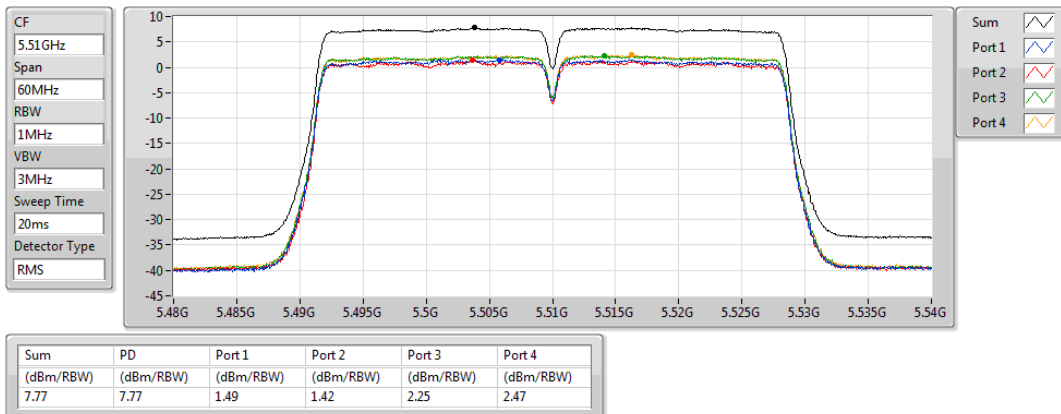


802.11ax HEW40_Nss1,(MCS0)_4TX

PSD

5510MHz

12/09/2019

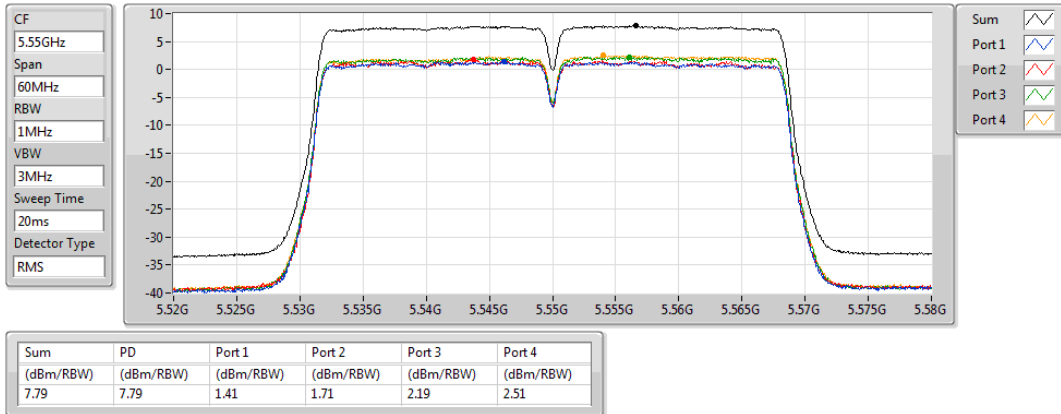


802.11ax HEW40_Nss1,(MCS0)_4TX

PSD

5550MHz

12/09/2019

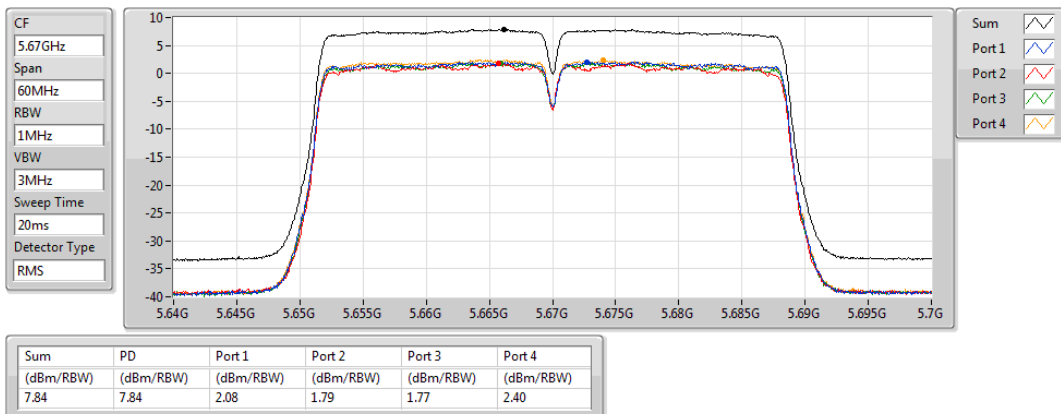


802.11ax HEW40_Nss1,(MCS0)_4TX

PSD

5670MHz

12/09/2019

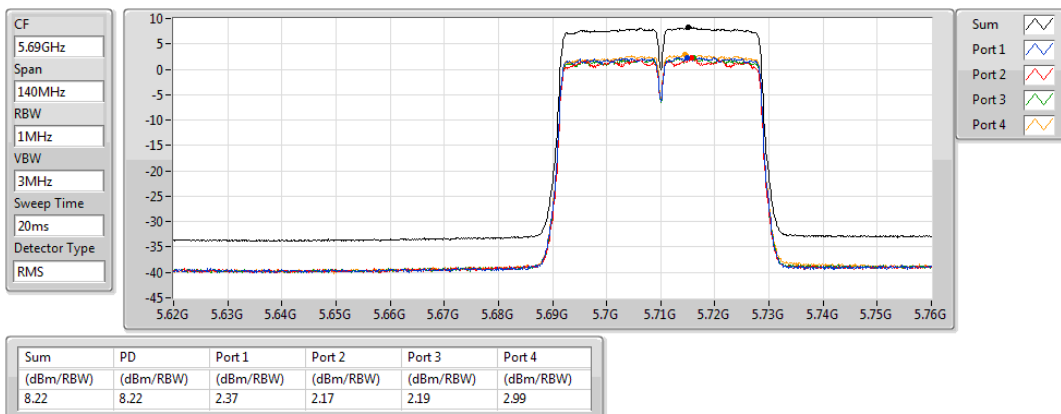


802.11ax HEW40_Nss1,(MCS0)_4TX

PSD

5710MHz Straddle 5.47-5.725GHz

12/09/2019

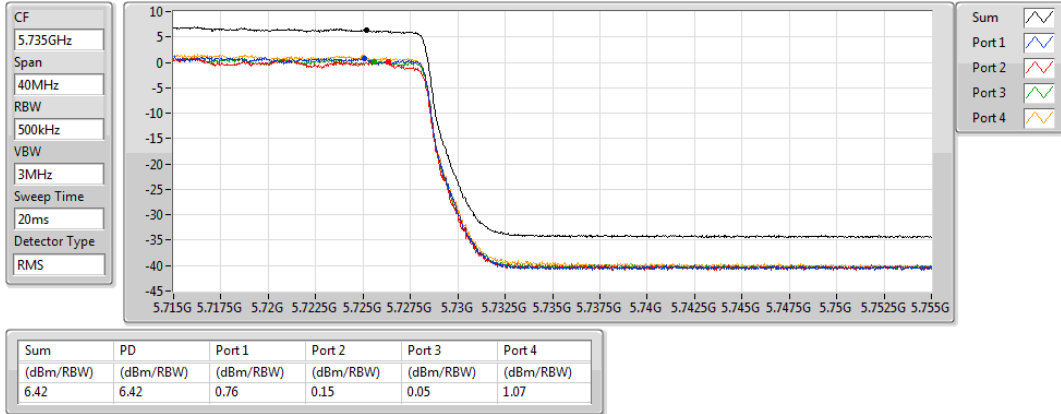


802.11ax HEW40_Nss1,(MCS0)_4TX

PSD

5710MHz Straddle 5.725-5.85GHz

12/09/2019

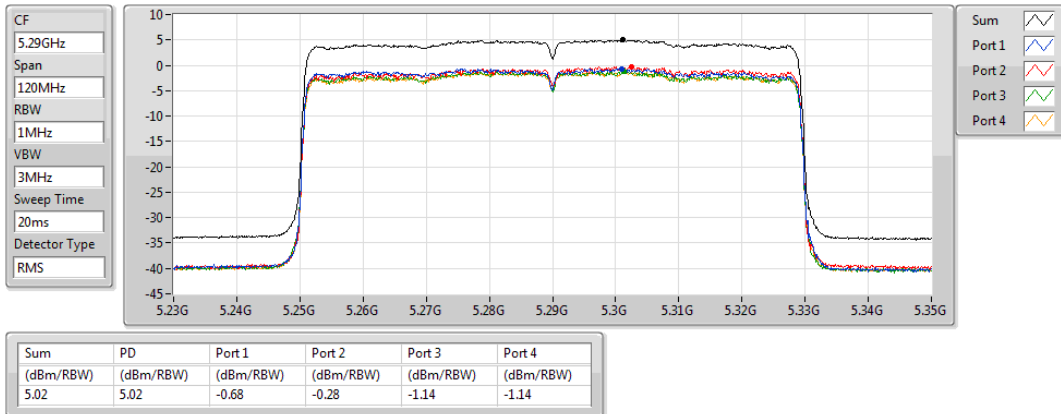


802.11ax HEW80_Nss1,(MCS0)_4TX

PSD

5290MHz

12/09/2019

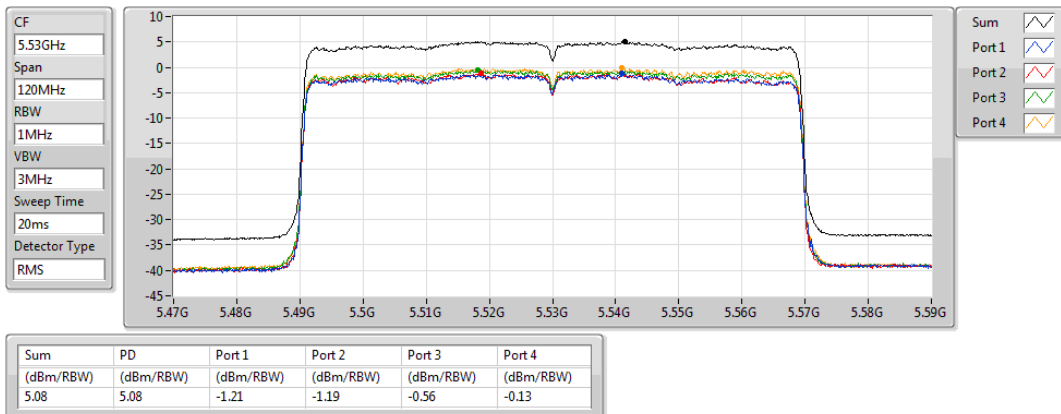


802.11ax HEW80_Nss1,(MCS0)_4TX

PSD

5530MHz

12/09/2019

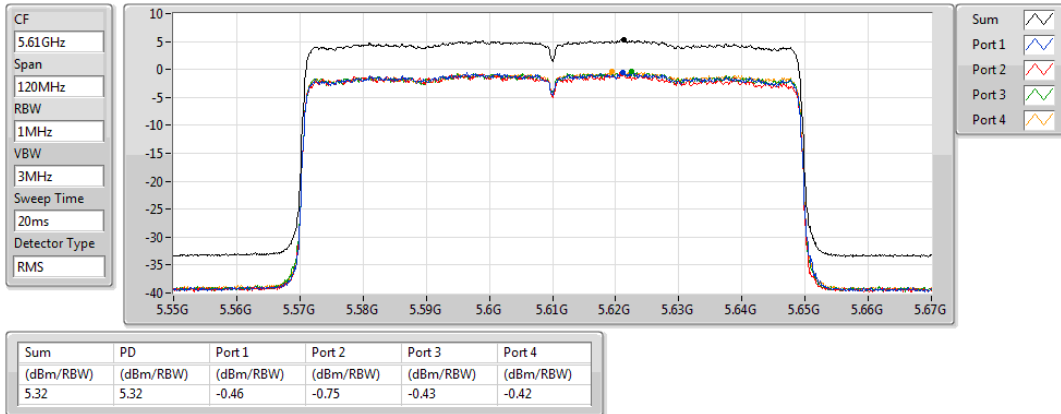


802.11ax HEW80_Nss1,(MCS0)_4TX

PSD

5610MHz

12/09/2019

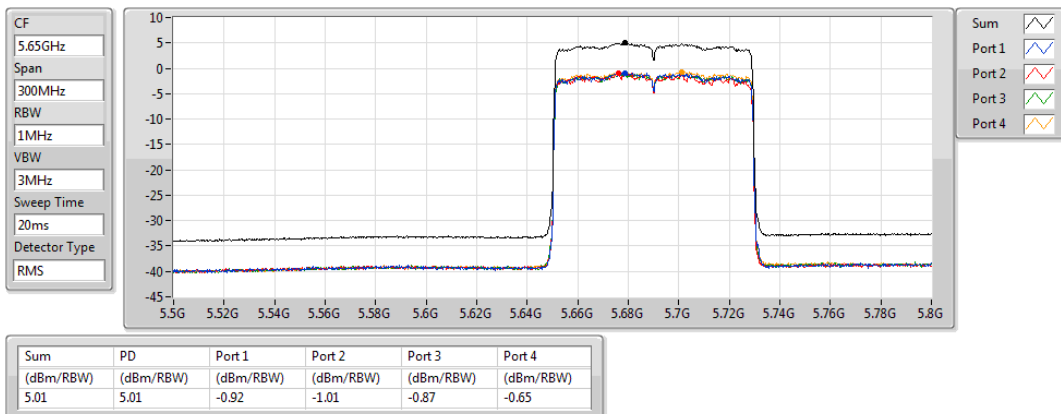


802.11ax HEW80_Nss1,(MCS0)_4TX

PSD

5690MHz Straddle 5.47-5.725GHz

12/09/2019

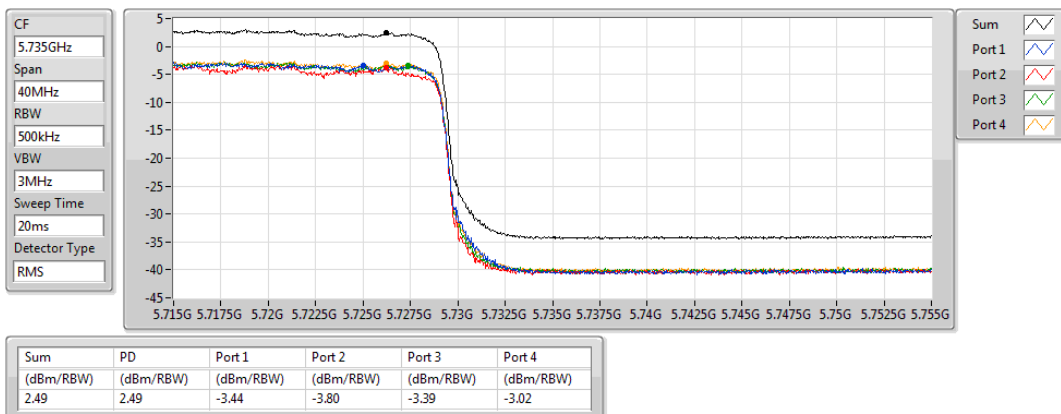


802.11ax HEW80_Nss1,(MCS0)_4TX

PSD

5690MHz Straddle 5.725-5.85GHz

12/09/2019

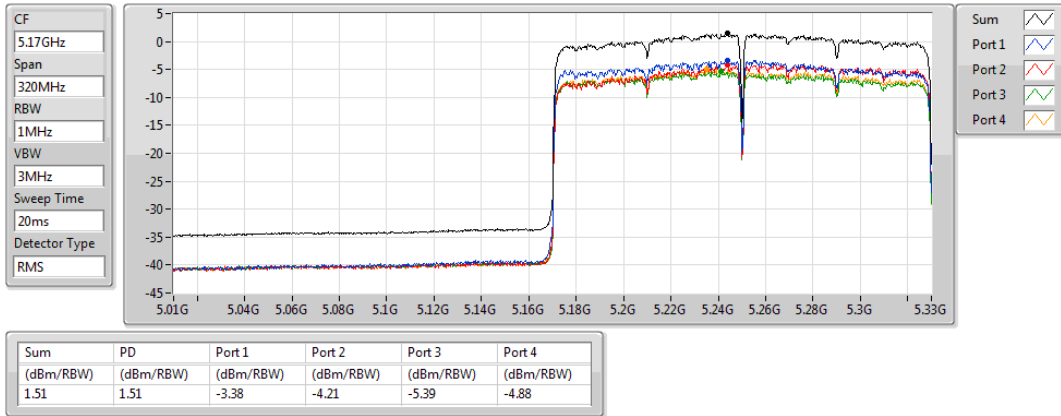


802.11ax HEW160_Nss1,(MCS0)_4TX

PSD

5250MHz Straddle 5.15-5.25GHz

12/09/2019

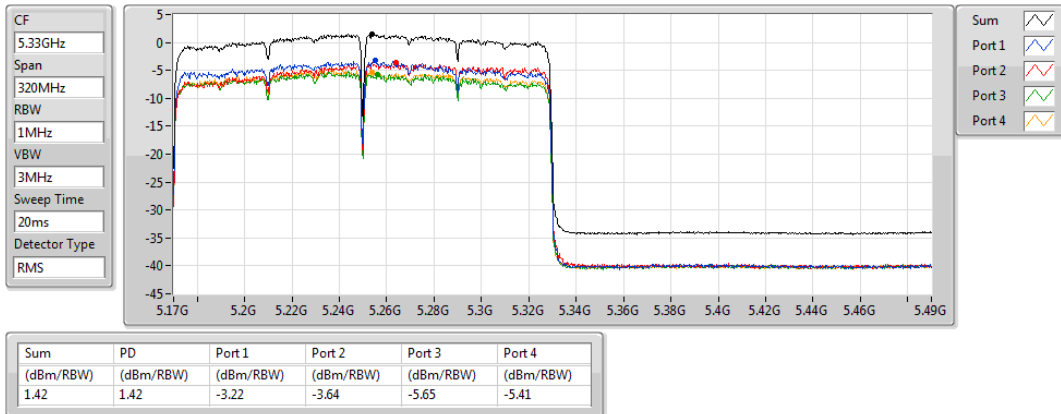


802.11ax HEW160_Nss1,(MCS0)_4TX

PSD

5250MHz Straddle 5.25-5.35GHz

12/09/2019

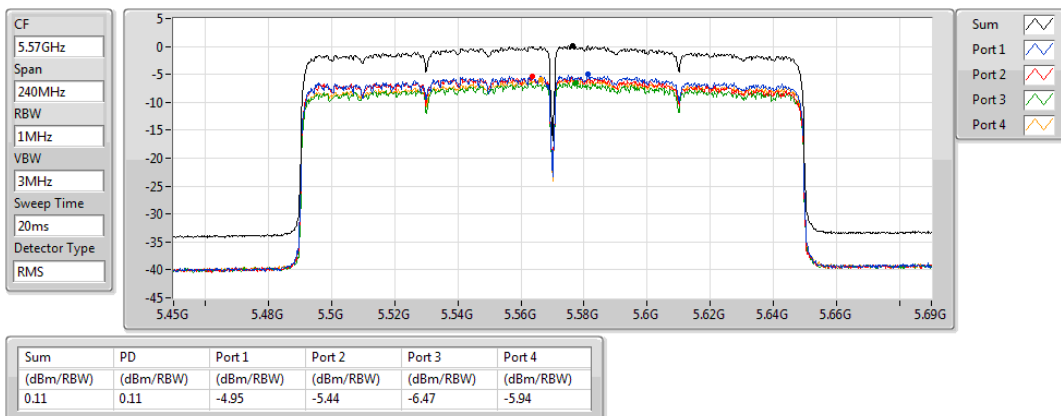


802.11ax HEW160_Nss1,(MCS0)_4TX

PSD

5570MHz

12/09/2019



Summary

Mode	PD (dBm/RBW)
5.15-5.25GHz	-
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	1.00
5.25-5.35GHz	-
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	8.91
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	8.91
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	6.27
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	6.22
802.11ac VHT80-BF_Nss1,(MCS0)_4TX	3.59
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	3.53
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	1.17
5.47-5.725GHz	-
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	9.67
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	9.59
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	6.84
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	6.96
802.11ac VHT80-BF_Nss1,(MCS0)_4TX	4.22
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	4.25
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	-0.27
5.725-5.85GHz	-
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	8.09
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	7.80
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	5.11
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	5.14
802.11ac VHT80-BF_Nss1,(MCS0)_4TX	1.82
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	1.60

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)
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5260MHz	Pass	7.69	2.47	3.60	3.43	2.59	8.91	9.31
5300MHz	Pass	7.69	2.15	3.40	3.49	2.84	8.90	9.31
5320MHz	Pass	7.69	2.27	3.34	3.38	2.70	8.89	9.31
5500MHz	Pass	7.02	2.78	3.70	4.33	4.08	9.65	9.98
5580MHz	Pass	7.02	2.78	3.64	4.34	4.17	9.67	9.98
5700MHz	Pass	7.02	2.66	3.72	4.14	4.01	9.48	9.98
5720MHz Straddle 5.47-5.725GHz	Pass	7.02	2.43	3.45	4.05	3.98	9.39	9.98
5720MHz Straddle 5.725-5.85GHz	Pass	6.21	1.19	2.15	2.82	2.70	8.09	29.79
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5260MHz	Pass	7.69	2.31	3.62	3.28	2.52	8.76	9.31
5300MHz	Pass	7.69	2.33	3.49	3.56	2.87	8.91	9.31
5320MHz	Pass	7.69	2.27	3.50	3.48	2.93	8.91	9.31
5500MHz	Pass	7.02	2.45	3.56	4.34	3.94	9.50	9.98
5580MHz	Pass	7.02	2.33	3.40	4.25	3.90	9.45	9.98
5700MHz	Pass	7.02	2.81	3.65	4.20	4.18	9.59	9.98
5720MHz Straddle 5.47-5.725GHz	Pass	7.02	2.26	3.15	3.72	3.87	9.18	9.98
5720MHz Straddle 5.725-5.85GHz	Pass	6.21	0.87	1.83	2.39	2.47	7.80	29.79
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5270MHz	Pass	7.69	-0.32	0.69	0.92	0.33	6.27	9.31
5310MHz	Pass	7.69	-0.43	0.60	0.98	0.10	6.23	9.31
5510MHz	Pass	7.02	-0.21	1.10	1.58	1.23	6.84	9.98
5550MHz	Pass	7.02	-0.47	0.51	1.36	1.08	6.55	9.98
5670MHz	Pass	7.02	-0.25	0.43	1.36	1.71	6.70	9.98
5710MHz Straddle 5.47-5.725GHz	Pass	7.02	-0.39	0.61	1.37	1.60	6.83	9.98
5710MHz Straddle 5.725-5.85GHz	Pass	6.21	-1.86	-1.04	-0.29	0.00	5.11	29.79
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5270MHz	Pass	7.69	-0.45	0.59	0.58	0.06	6.01	9.31
5310MHz	Pass	7.69	-0.40	0.81	0.78	0.15	6.22	9.31
5510MHz	Pass	7.02	-0.03	0.90	1.64	1.15	6.78	9.98
5550MHz	Pass	7.02	-0.30	0.60	1.37	1.03	6.59	9.98
5670MHz	Pass	7.02	-0.26	0.70	1.59	1.91	6.96	9.98
5710MHz Straddle 5.47-5.725GHz	Pass	7.02	-0.22	0.58	1.37	1.64	6.79	9.98
5710MHz Straddle 5.725-5.85GHz	Pass	6.21	-1.95	-0.88	-0.21	0.10	5.14	29.79
802.11ac VHT80-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5290MHz	Pass	7.69	-3.41	-1.66	-1.86	-2.40	3.59	9.31
5530MHz	Pass	7.02	-2.90	-1.99	-1.03	-1.06	4.22	9.98
5610MHz	Pass	7.02	-3.12	-1.97	-1.10	-0.98	4.18	9.98
5690MHz Straddle 5.47-5.725GHz	Pass	7.02	-3.20	-2.04	-1.39	-1.49	3.95	9.98
5690MHz Straddle 5.725-5.85GHz	Pass	6.21	-5.29	-4.67	-3.66	-3.05	1.82	29.79
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5290MHz	Pass	7.69	-3.68	-1.79	-1.89	-2.38	3.53	9.31
5530MHz	Pass	7.02	-2.79	-2.02	-1.06	-1.10	4.25	9.98
5610MHz	Pass	7.02	-3.35	-2.15	-1.41	-1.33	3.92	9.98

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)
5690MHz Straddle 5.47-5.725GHz	Pass	7.02	-3.39	-2.13	-1.59	-1.67	3.69	9.98
5690MHz Straddle 5.725-5.85GHz	Pass	6.21	-5.49	-4.65	-3.57	-3.51	1.60	29.79
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	7.48	-3.86	-4.15	-6.21	-5.38	1.00	15.52
5250MHz Straddle 5.25-5.35GHz	Pass	7.69	-3.27	-3.83	-6.41	-6.08	1.17	9.31
5570MHz	Pass	7.02	-5.20	-5.56	-7.20	-6.27	-0.27	9.98

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

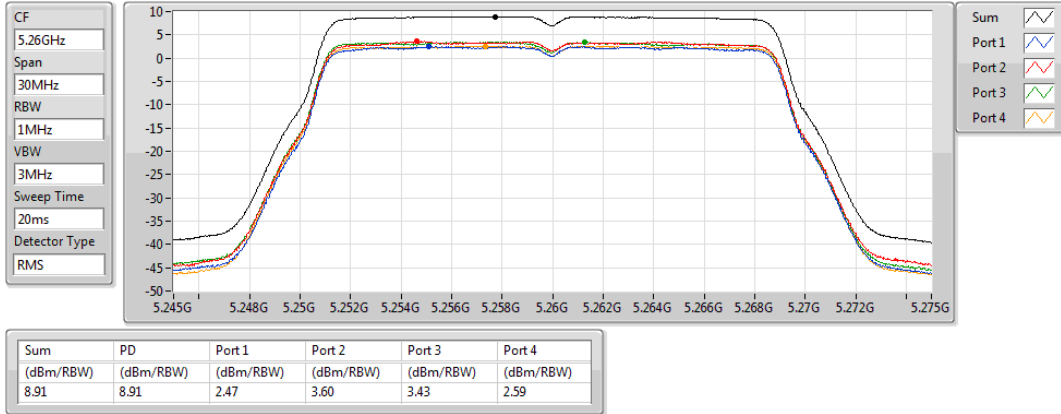
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; **Port X** = Port X power density;

802.11ac VHT20-BF_Nss1,(MCS0)_4TX

PSD

5260MHz

19/09/2019

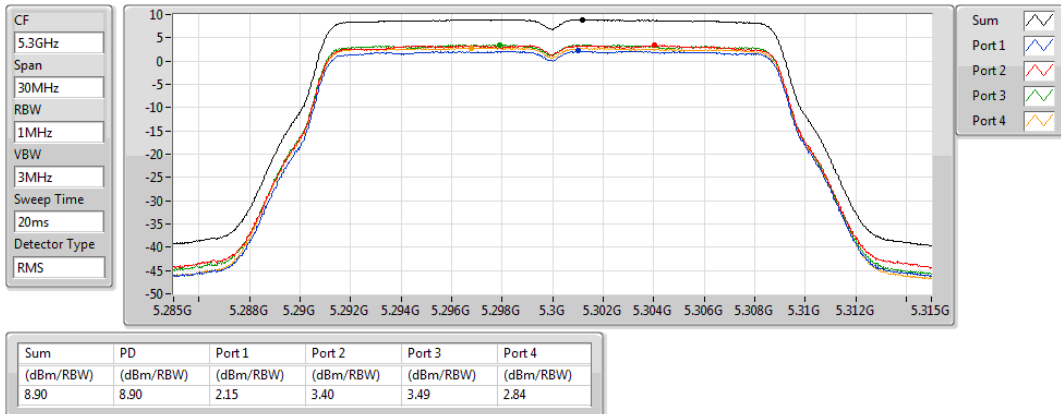


802.11ac VHT20-BF_Nss1,(MCS0)_4TX

PSD

5300MHz

19/09/2019

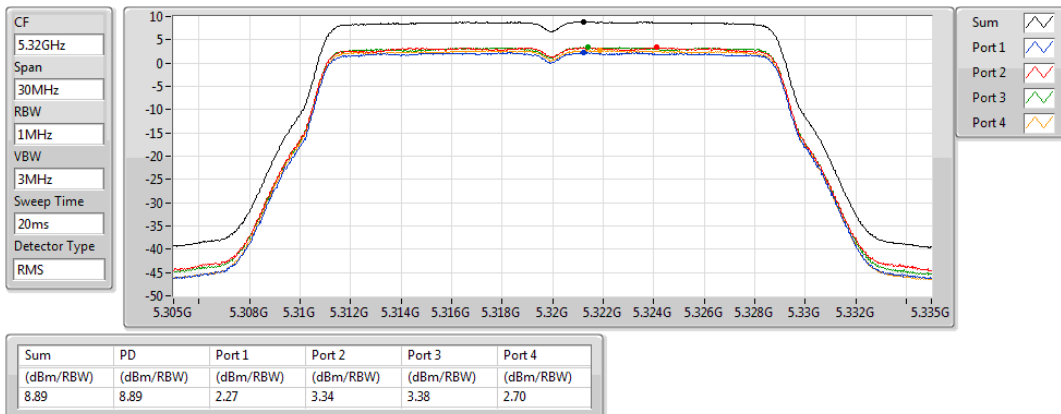


802.11ac VHT20-BF_Nss1,(MCS0)_4TX

PSD

5320MHz

19/09/2019

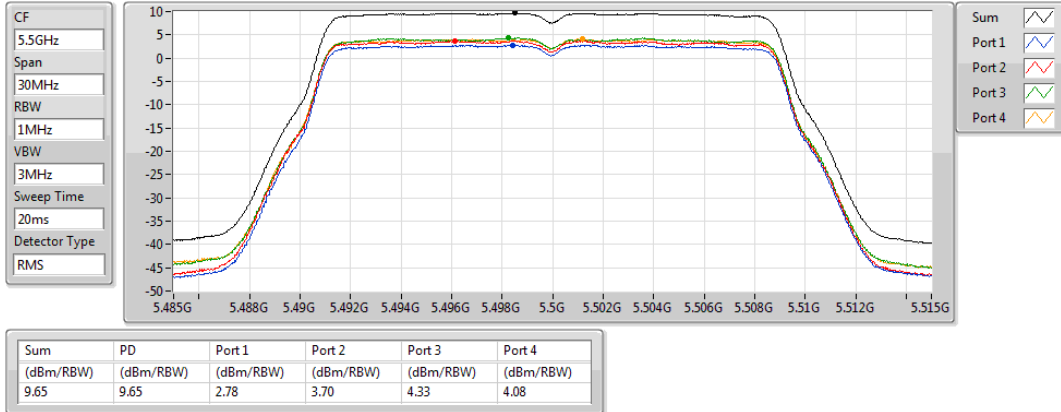


802.11ac VHT20-BF_Nss1,(MCS0)_4TX

PSD

5500MHz

19/09/2019

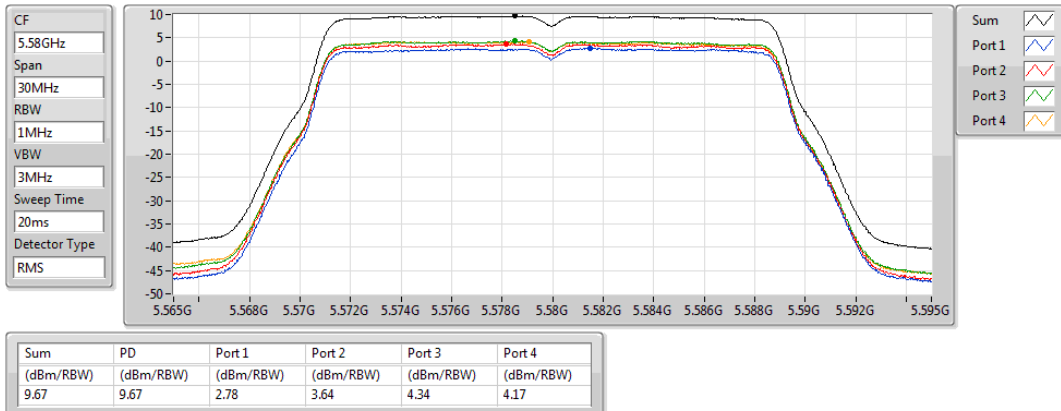


802.11ac VHT20-BF_Nss1,(MCS0)_4TX

PSD

5580MHz

19/09/2019

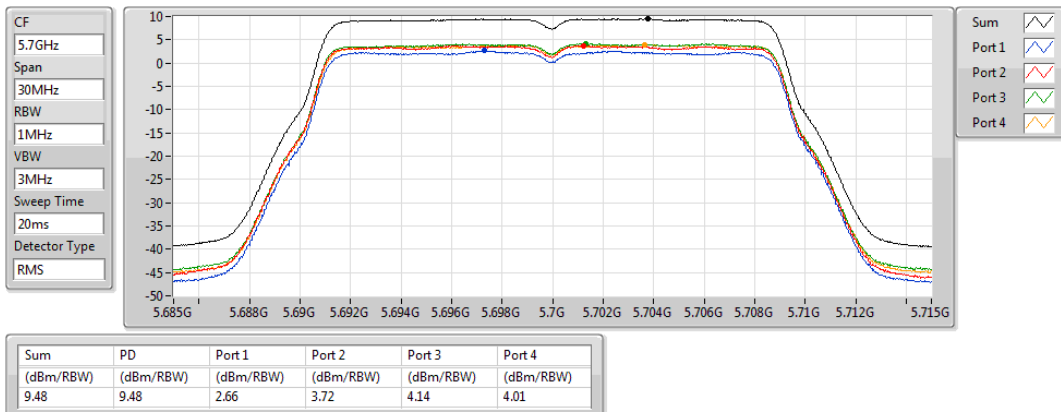


802.11ac VHT20-BF_Nss1,(MCS0)_4TX

PSD

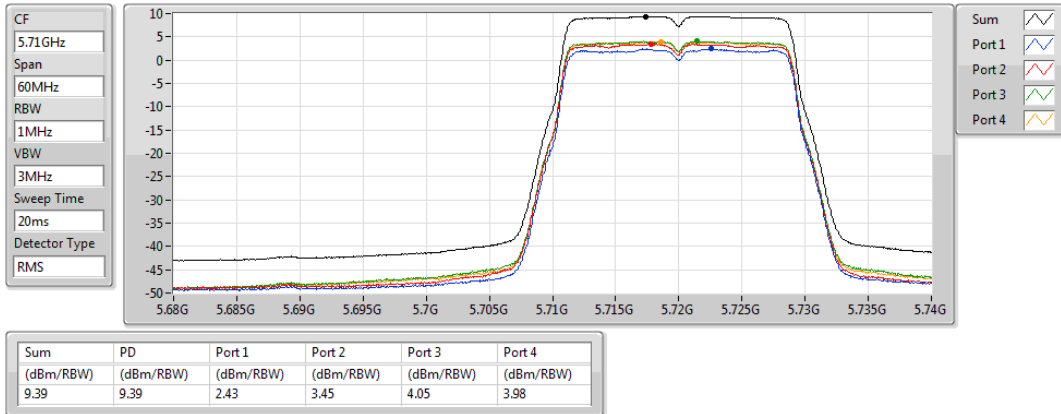
5700MHz

19/09/2019

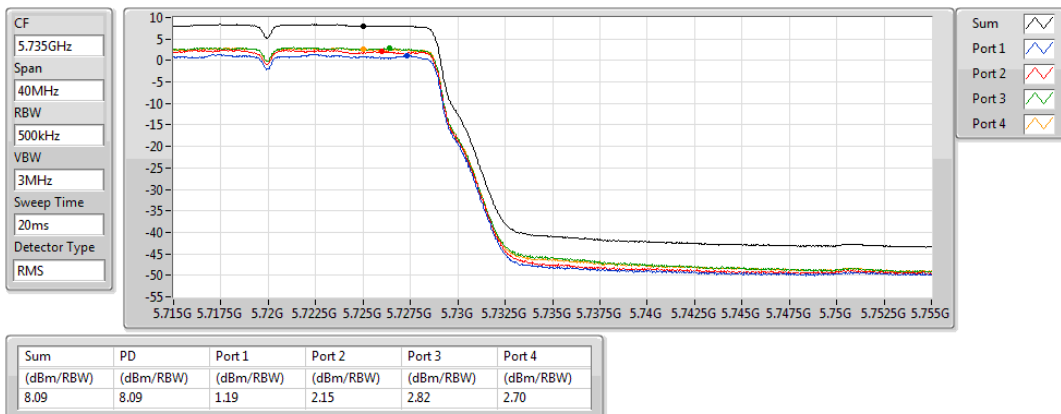


802.11ac VHT20-BF_Nss1,(MCS0)_4TX**PSD****5720MHz Straddle 5.47-5.725GHz**

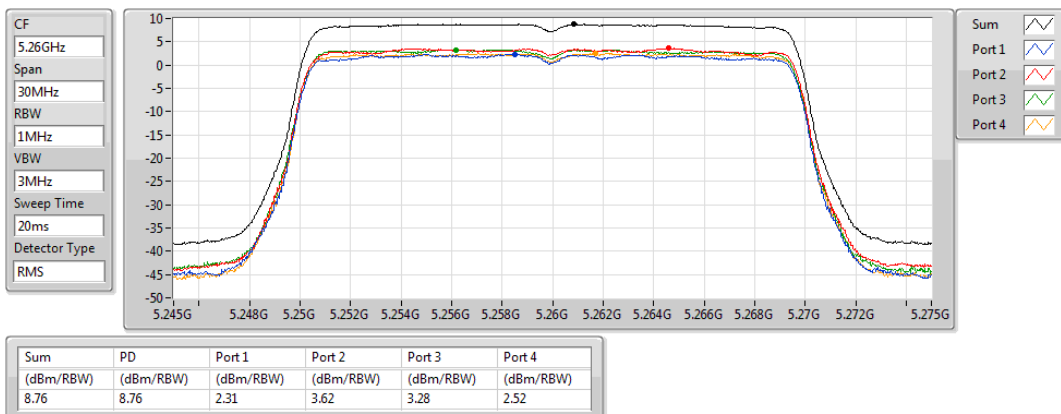
19/09/2019

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

19/09/2019

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

19/09/2019

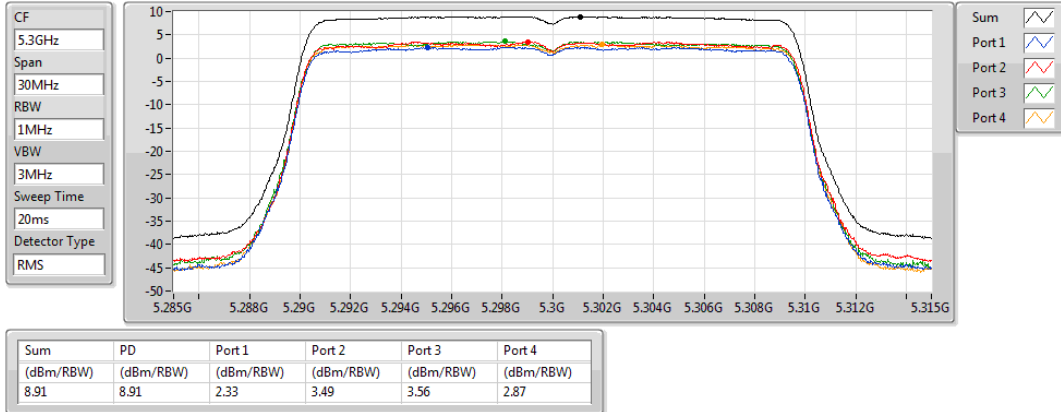


802.11ax HEW20-BF_Nss1,(MCS0)_4TX

PSD

5300MHz

19/09/2019

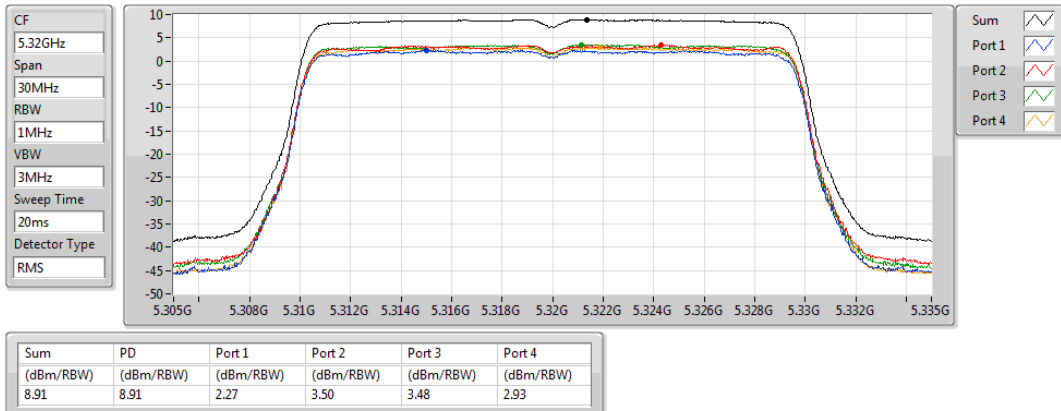


802.11ax HEW20-BF_Nss1,(MCS0)_4TX

PSD

5320MHz

19/09/2019

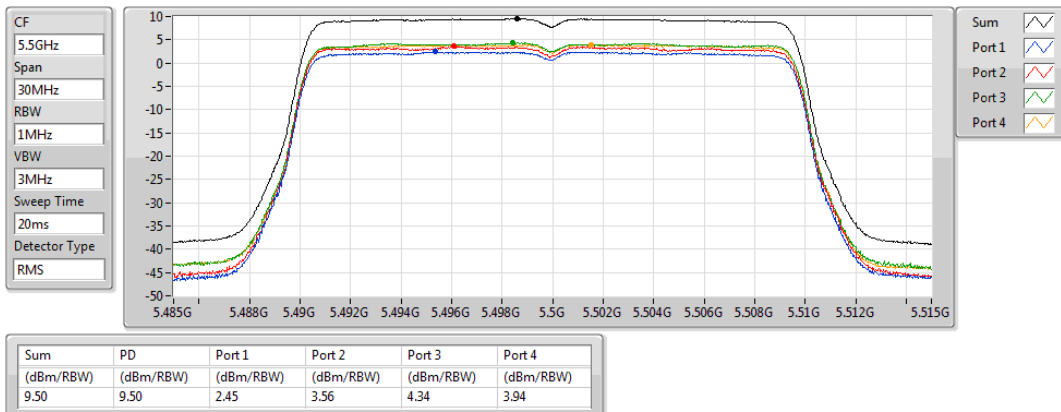


802.11ax HEW20-BF_Nss1,(MCS0)_4TX

PSD

5500MHz

19/09/2019

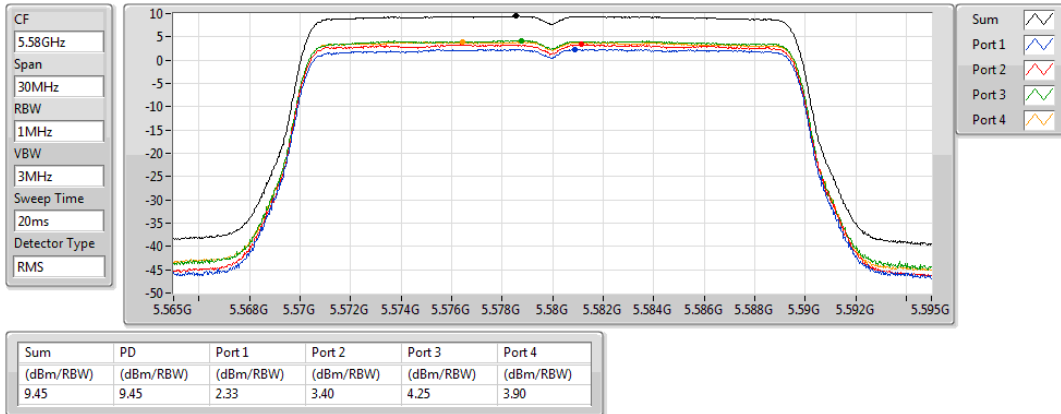


802.11ax HEW20-BF_Nss1,(MCS0)_4TX

PSD

5580MHz

19/09/2019

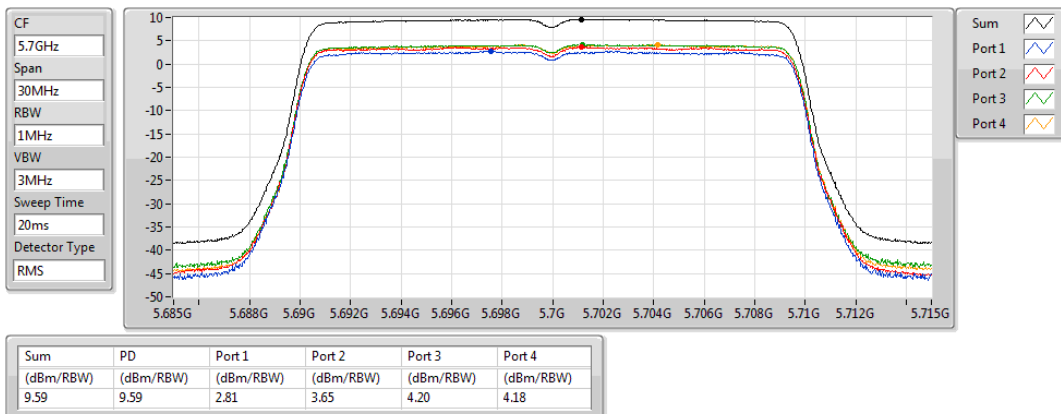


802.11ax HEW20-BF_Nss1,(MCS0)_4TX

PSD

5700MHz

19/09/2019

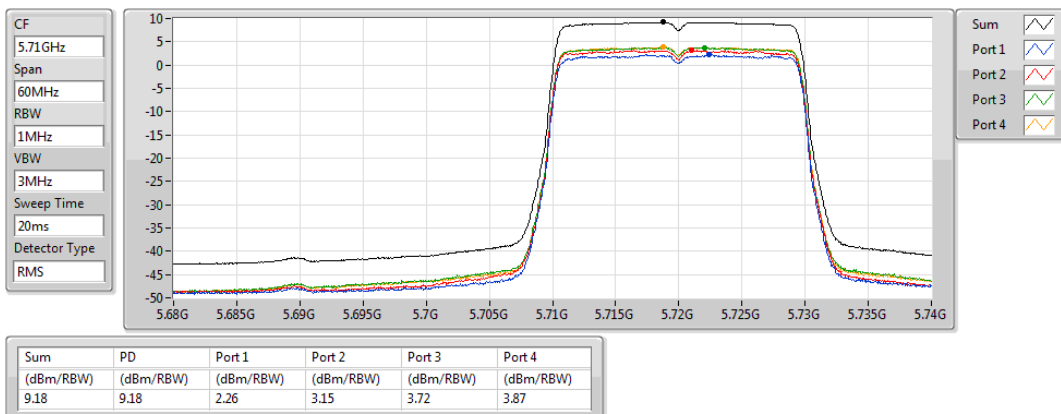


802.11ax HEW20-BF_Nss1,(MCS0)_4TX

PSD

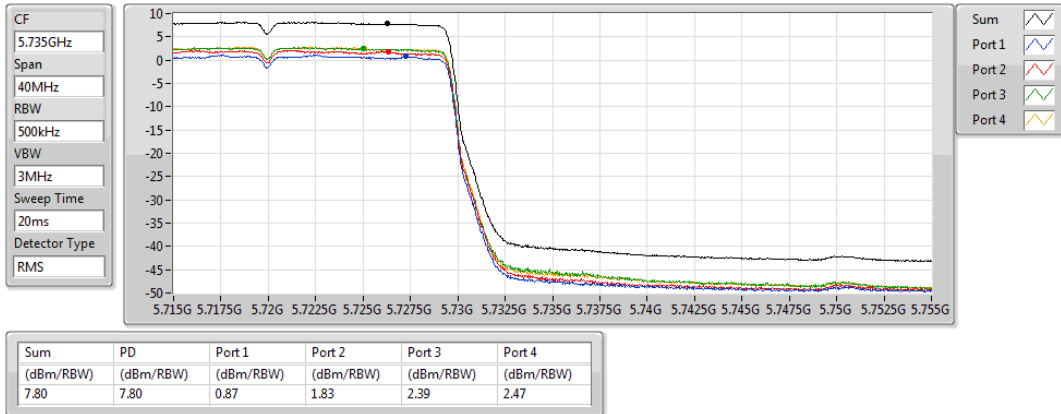
5720MHz Straddle 5.47-5.725GHz

19/09/2019

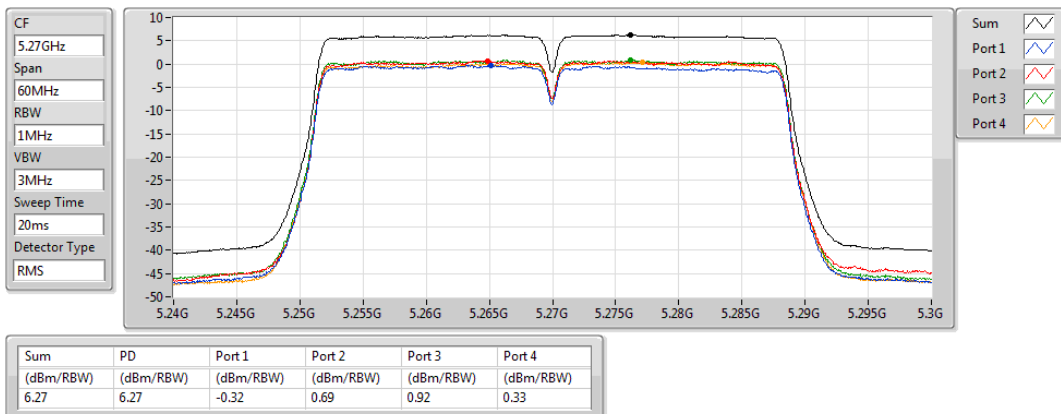


802.11ax HEW20-BF_Nss1,(MCS0)_4TX**PSD****5720MHz Straddle 5.725-5.85GHz**

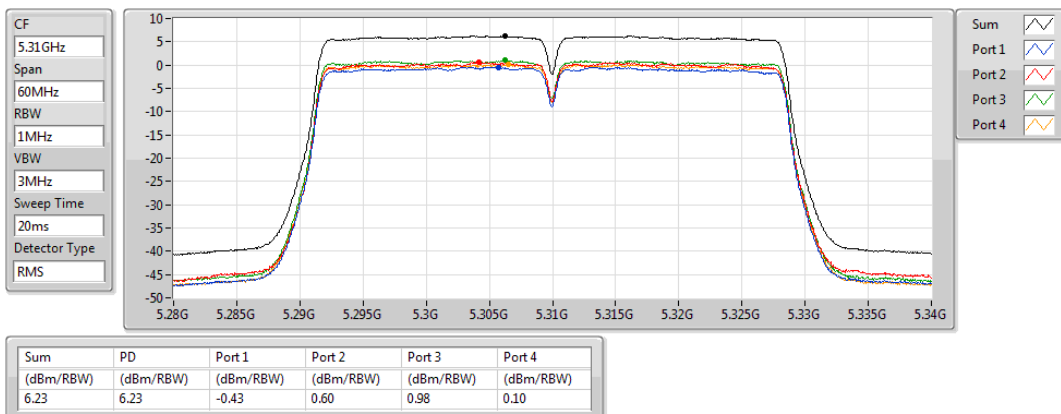
19/09/2019

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

19/09/2019

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

19/09/2019

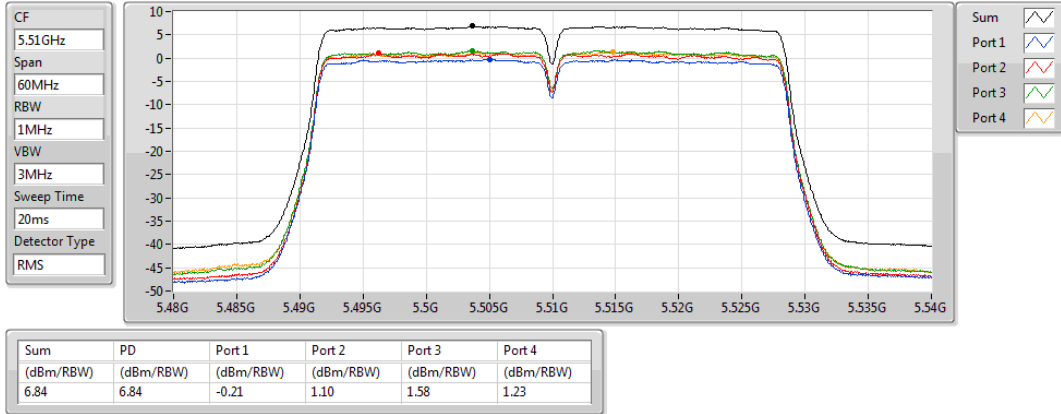


802.11ac VHT40-BF_Nss1,(MCS0)_4TX

PSD

5510MHz

19/09/2019

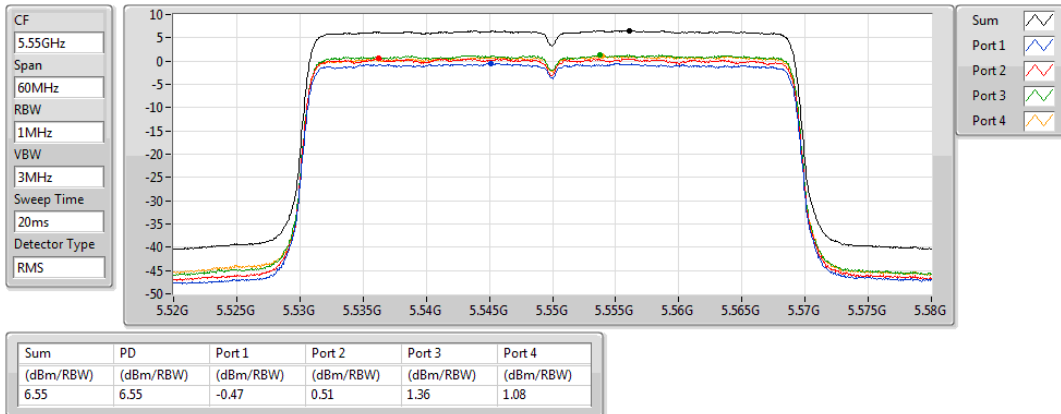


802.11ac VHT40-BF_Nss1,(MCS0)_4TX

PSD

5550MHz

19/09/2019

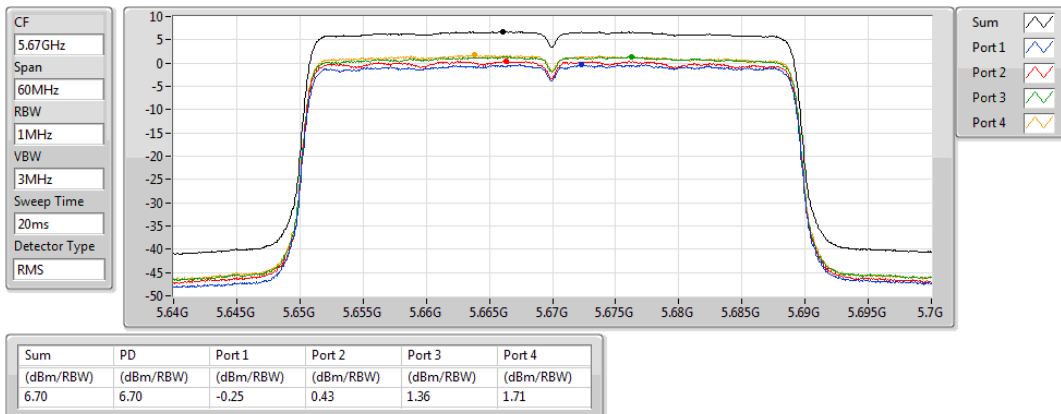


802.11ac VHT40-BF_Nss1,(MCS0)_4TX

PSD

5670MHz

19/09/2019

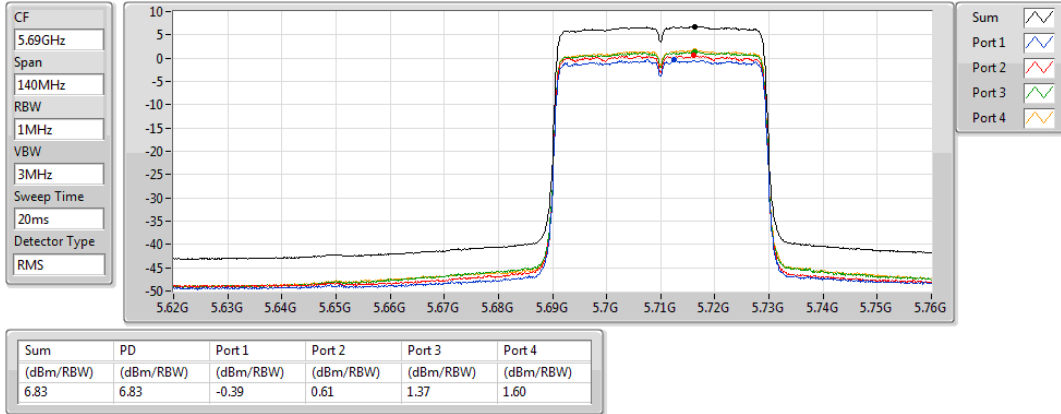


802.11ac VHT40-BF_Nss1,(MCS0)_4TX

PSD

5710MHz Straddle 5.47-5.725GHz

19/09/2019

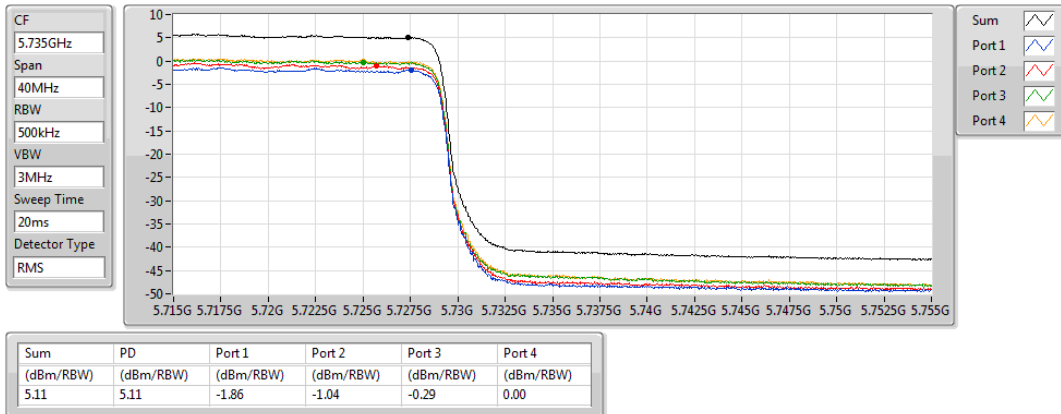


802.11ac VHT40-BF_Nss1,(MCS0)_4TX

PSD

5710MHz Straddle 5.725-5.85GHz

19/09/2019

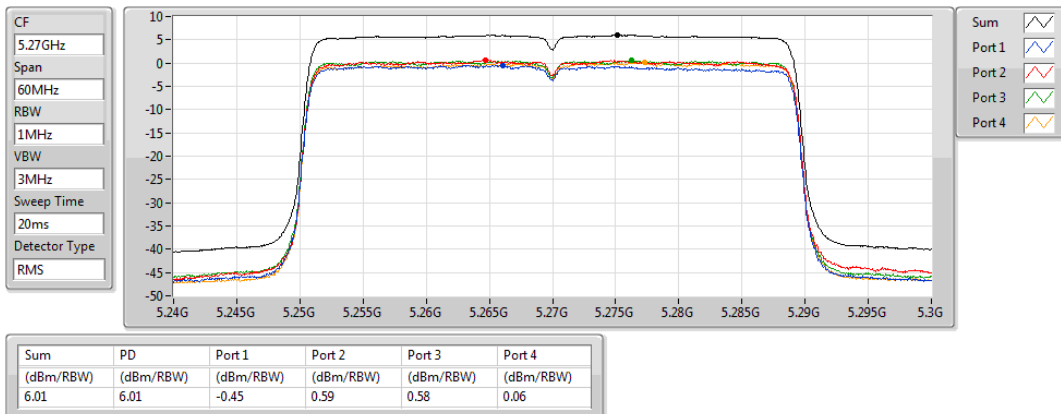


802.11ax HEW40-BF_Nss1,(MCS0)_4TX

PSD

5270MHz

19/09/2019

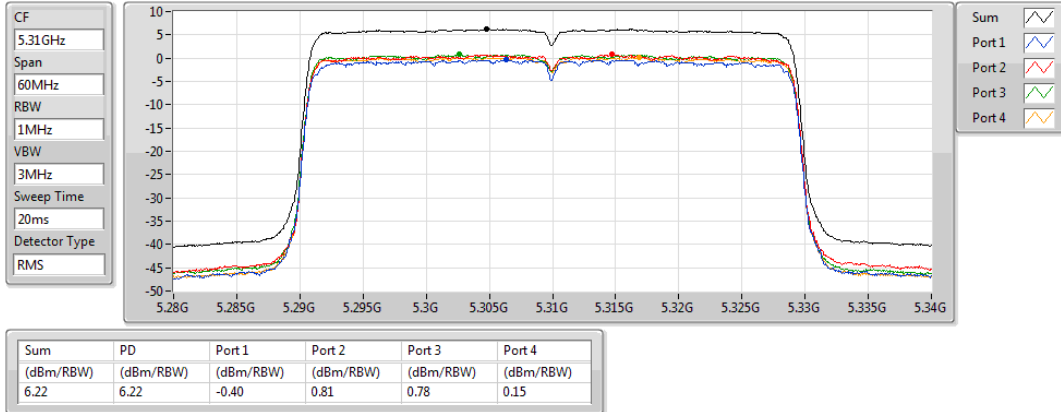


802.11ax HEW40-BF_Nss1,(MCS0)_4TX

PSD

5310MHz

19/09/2019

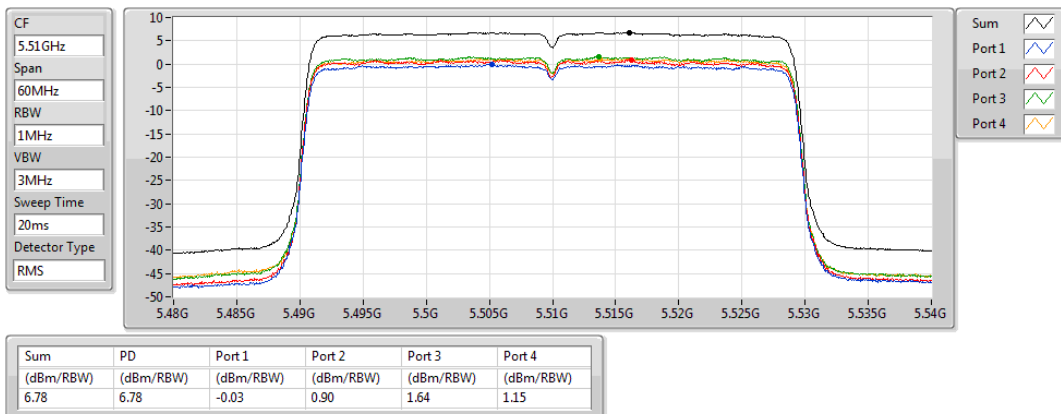


802.11ax HEW40-BF_Nss1,(MCS0)_4TX

PSD

5510MHz

19/09/2019

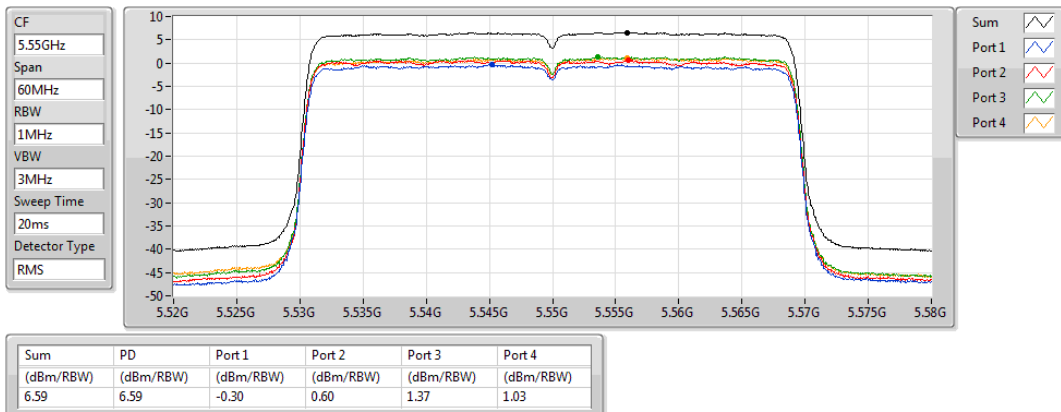


802.11ax HEW40-BF_Nss1,(MCS0)_4TX

PSD

5550MHz

19/09/2019

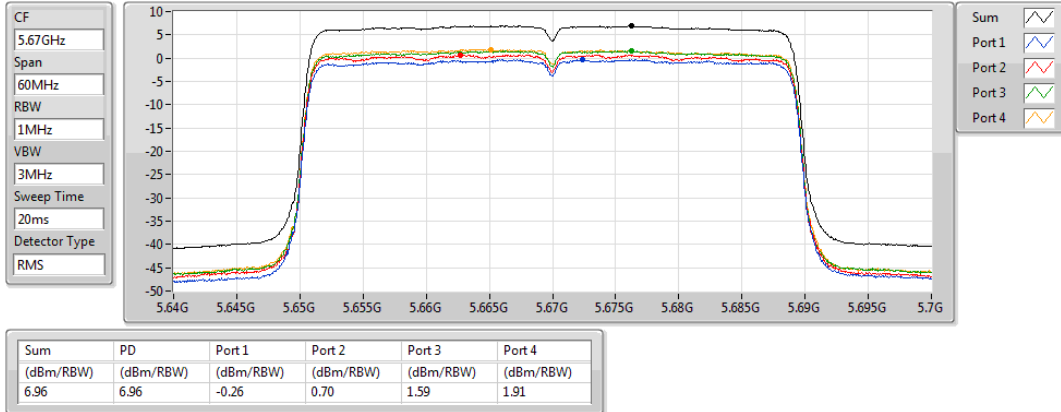


802.11ax HEW40-BF_Nss1,(MCS0)_4TX

PSD

5670MHz

19/09/2019

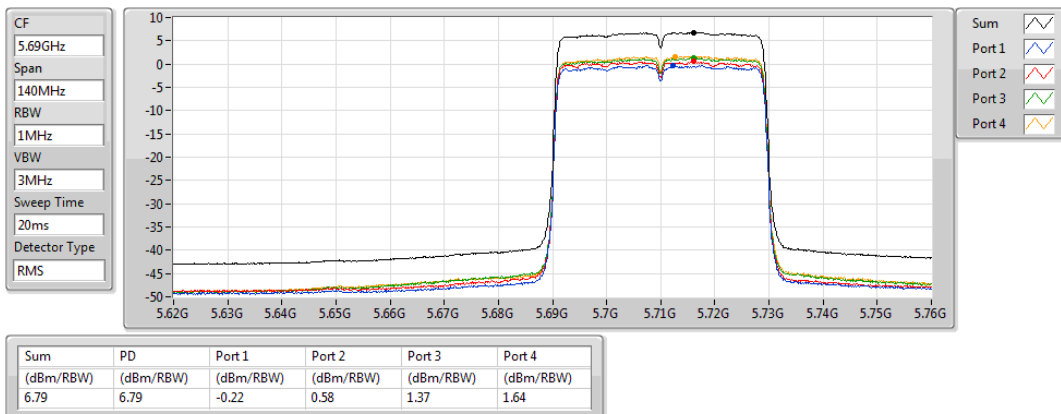


802.11ax HEW40-BF_Nss1,(MCS0)_4TX

PSD

5710MHz Straddle 5.47-5.725GHz

19/09/2019

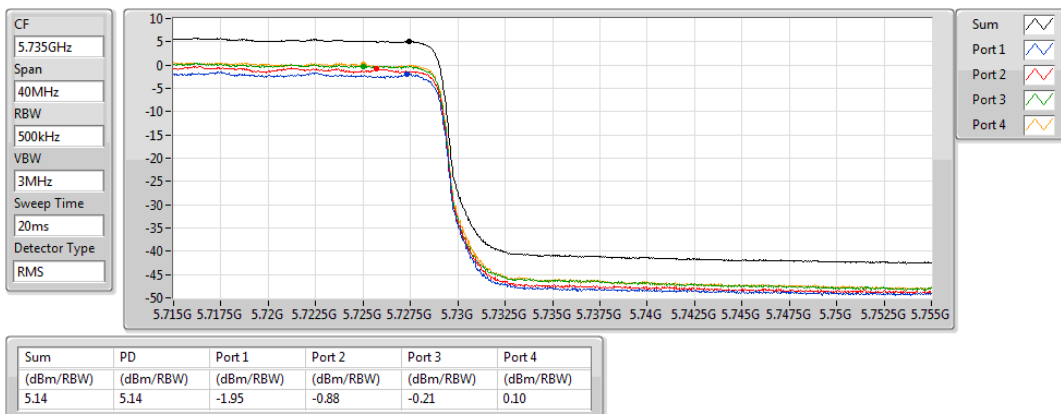


802.11ax HEW40-BF_Nss1,(MCS0)_4TX

PSD

5710MHz Straddle 5.725-5.85GHz

19/09/2019

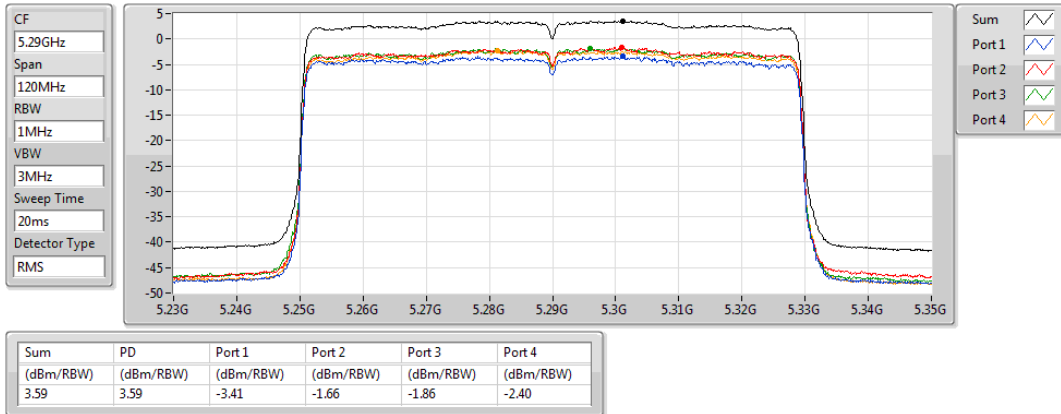


802.11ac VHT80-BF_Nss1,(MCS0)_4TX

PSD

5290MHz

19/09/2019

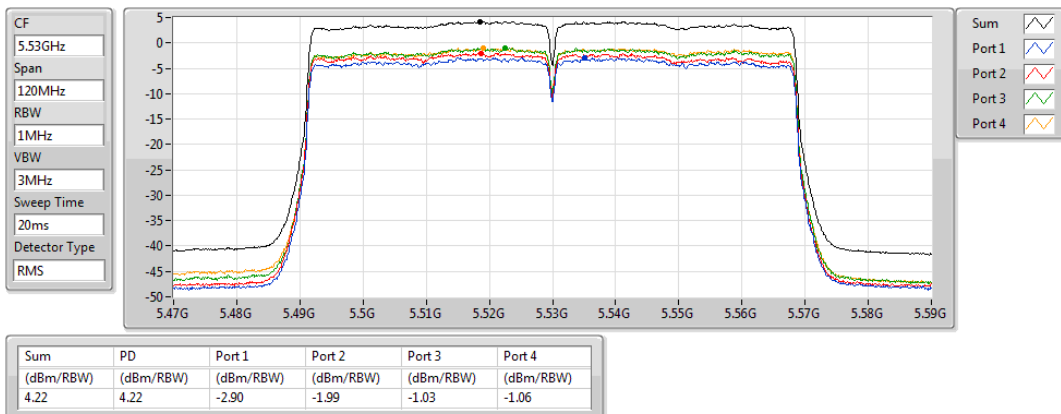


802.11ac VHT80-BF_Nss1,(MCS0)_4TX

PSD

5530MHz

19/09/2019

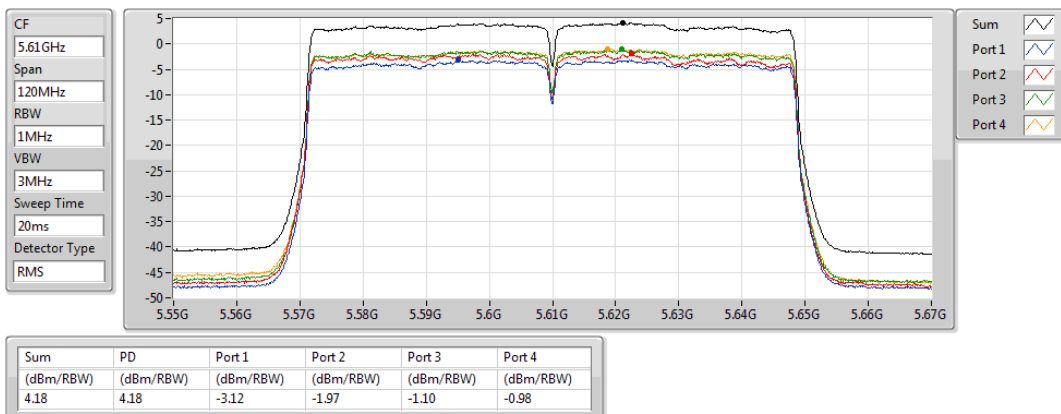


802.11ac VHT80-BF_Nss1,(MCS0)_4TX

PSD

5610MHz

19/09/2019

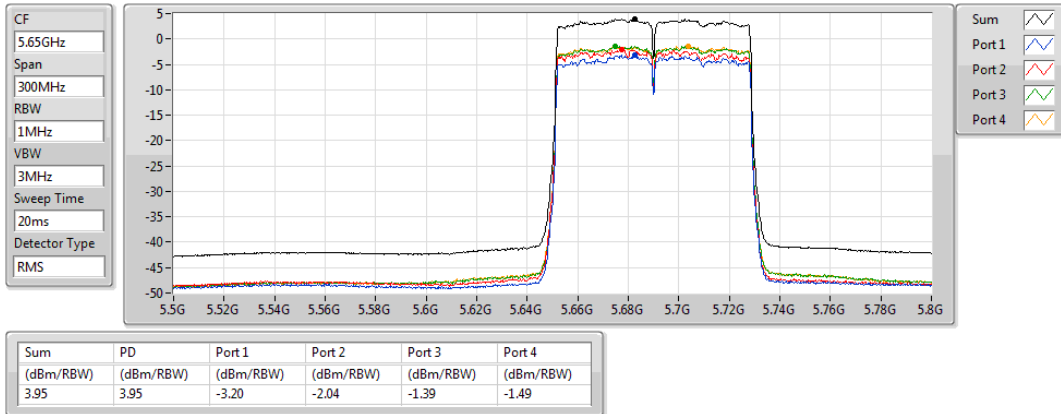


802.11ac VHT80-BF_Nss1,(MCS0)_4TX

PSD

5690MHz Straddle 5.47-5.725GHz

19/09/2019

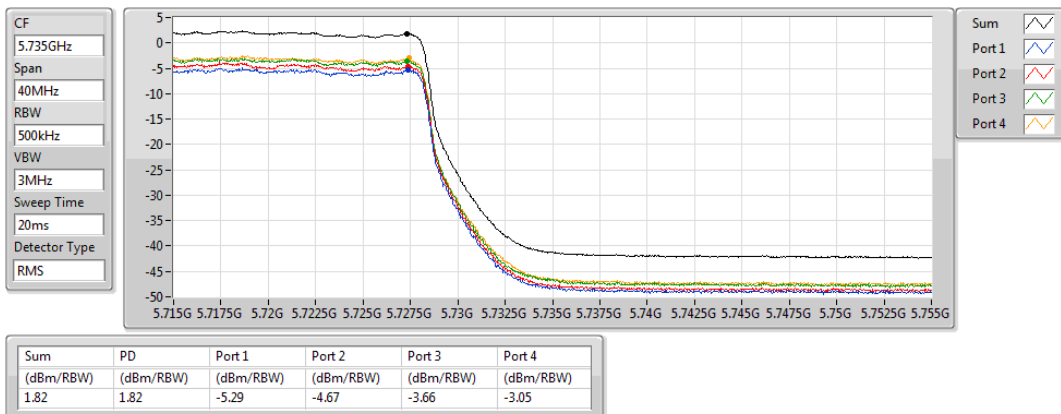


802.11ac VHT80-BF_Nss1,(MCS0)_4TX

PSD

5690MHz Straddle 5.725-5.85GHz

19/09/2019

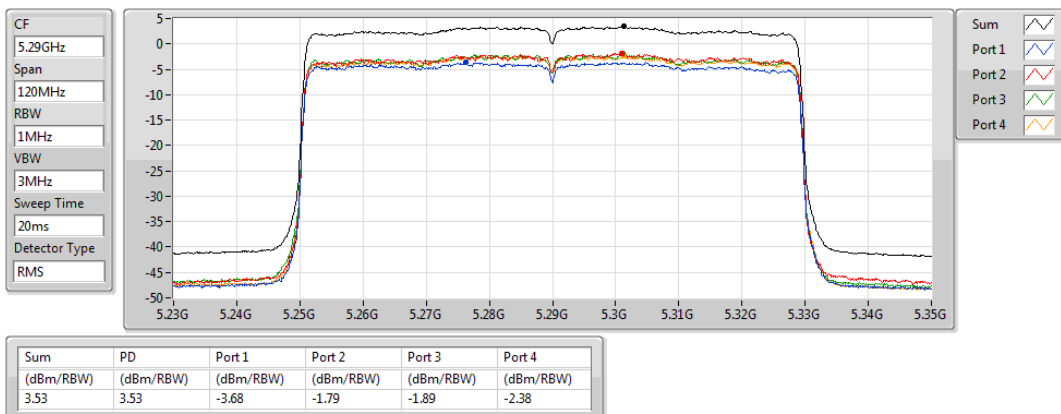


802.11ax HEW80-BF_Nss1,(MCS0)_4TX

PSD

5290MHz

19/09/2019

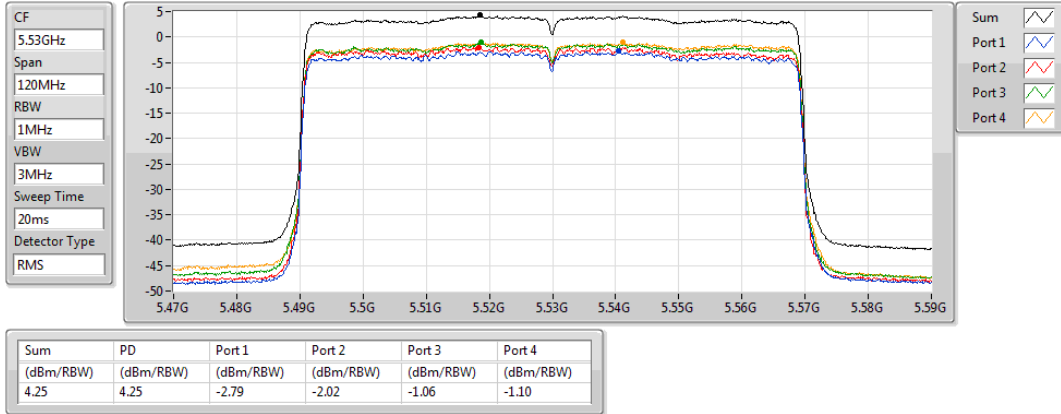


802.11ax HEW80-BF_Nss1,(MCS0)_4TX

PSD

5530MHz

19/09/2019

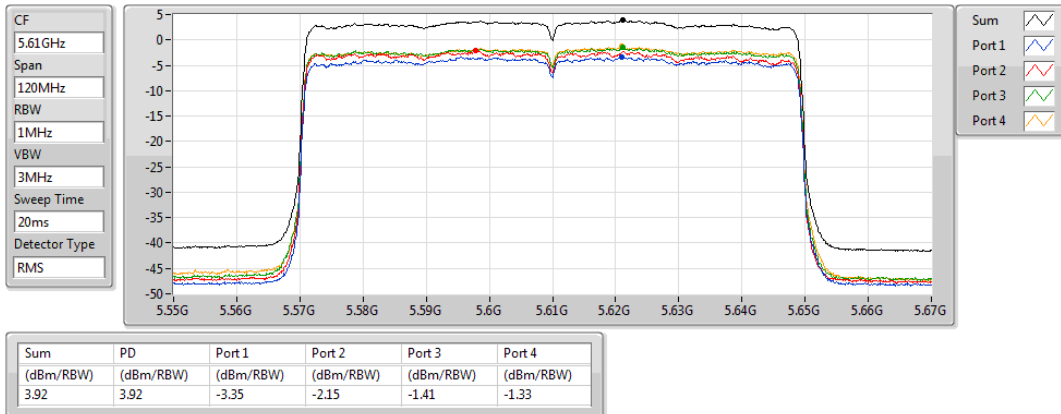


802.11ax HEW80-BF_Nss1,(MCS0)_4TX

PSD

5610MHz

19/09/2019

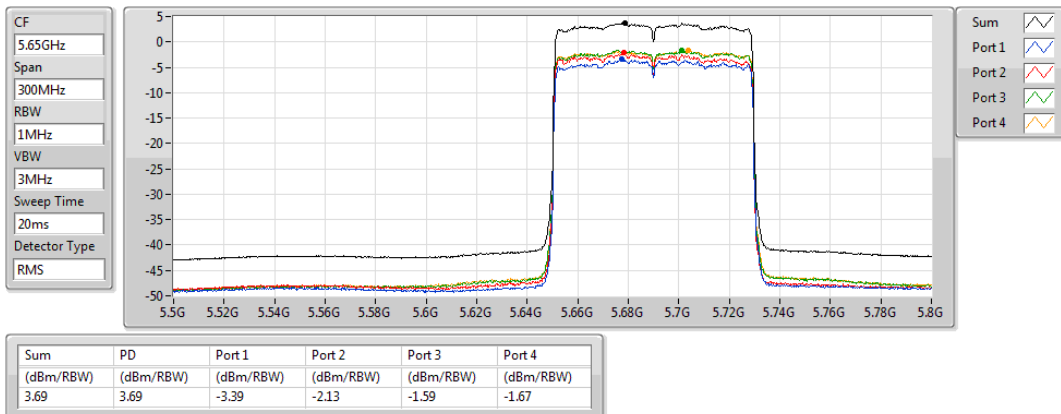


802.11ax HEW80-BF_Nss1,(MCS0)_4TX

PSD

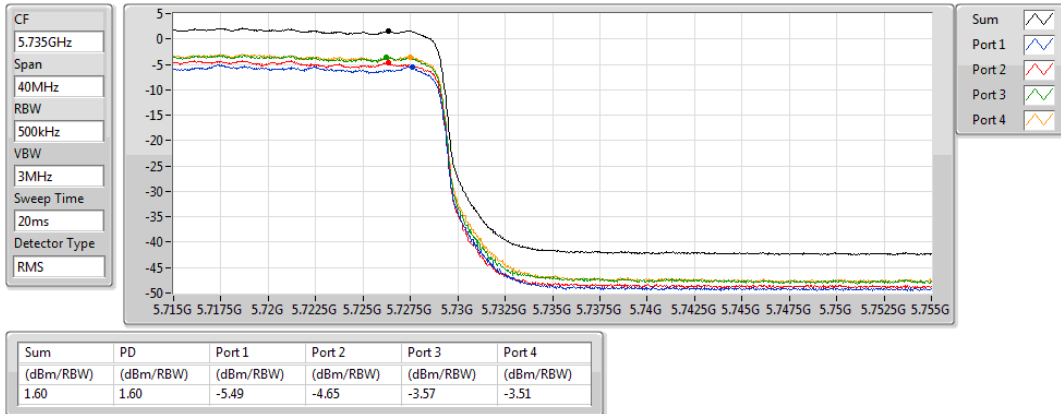
5690MHz Straddle 5.47-5.725GHz

19/09/2019

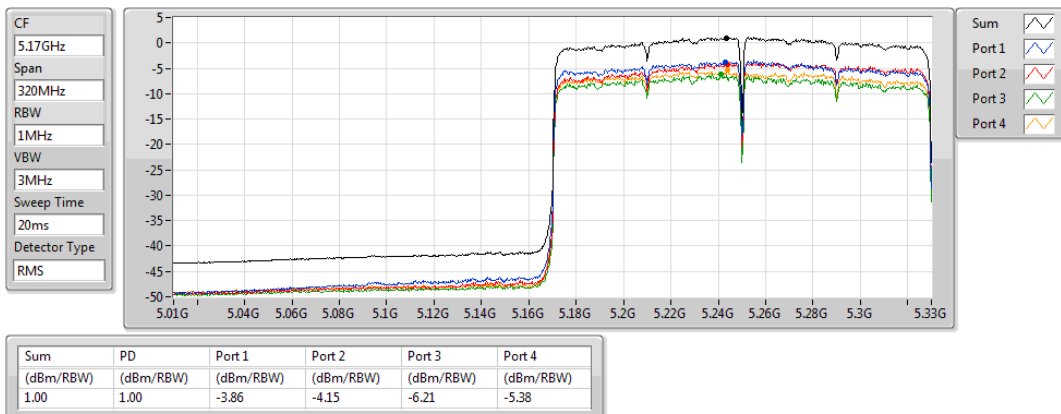


802.11ax HEW80-BF_Nss1,(MCS0)_4TX**PSD****5690MHz Straddle 5.725-5.85GHz**

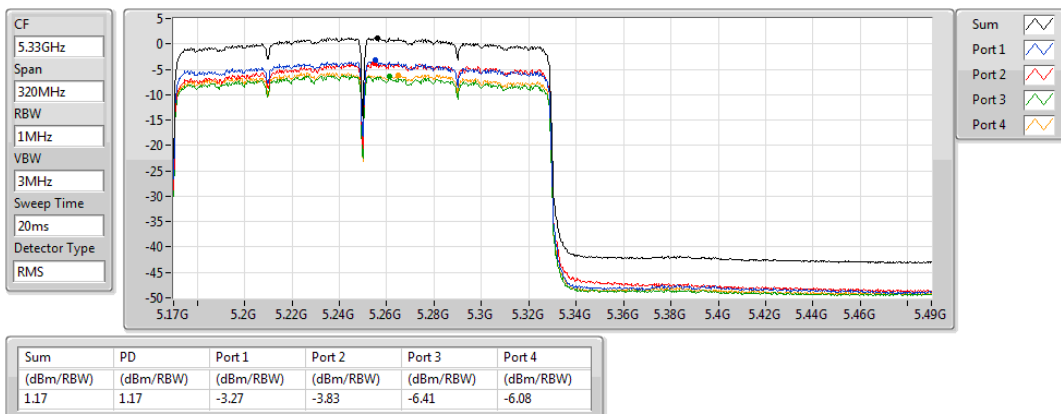
19/09/2019

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

19/09/2019

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

19/09/2019

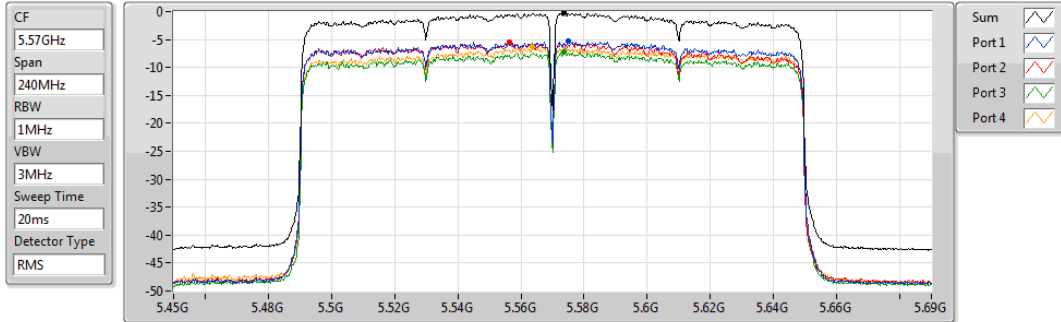


802.11ax HEW160-BF_Nss1,(MCS0)_4TX

PSD

5570MHz

19/09/2019



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-0.27	-0.27	-5.20	-5.56	-7.20	-6.27



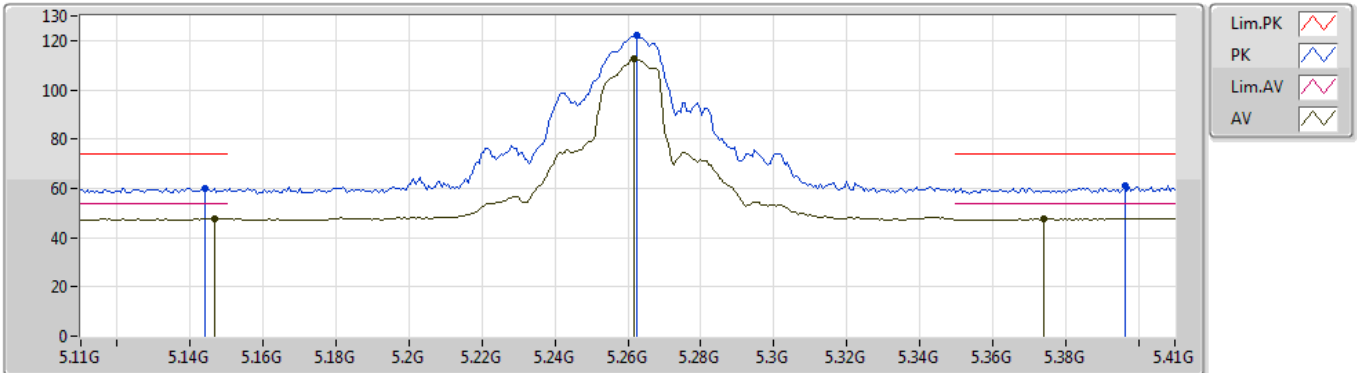
Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5.47-5.725GHz	-	-	-	-	-	-	-	-	-	-	-	-
802.11ax HEW80_Nss1,(MCS0)_4TX	Pass	PK	5.74G	67.69	68.20	-0.51	8.80	3	Horizontal	259	1.78	-

802.11a_Nss1,(6Mbps)_4TX

10/09/2019

5260MHz_TX



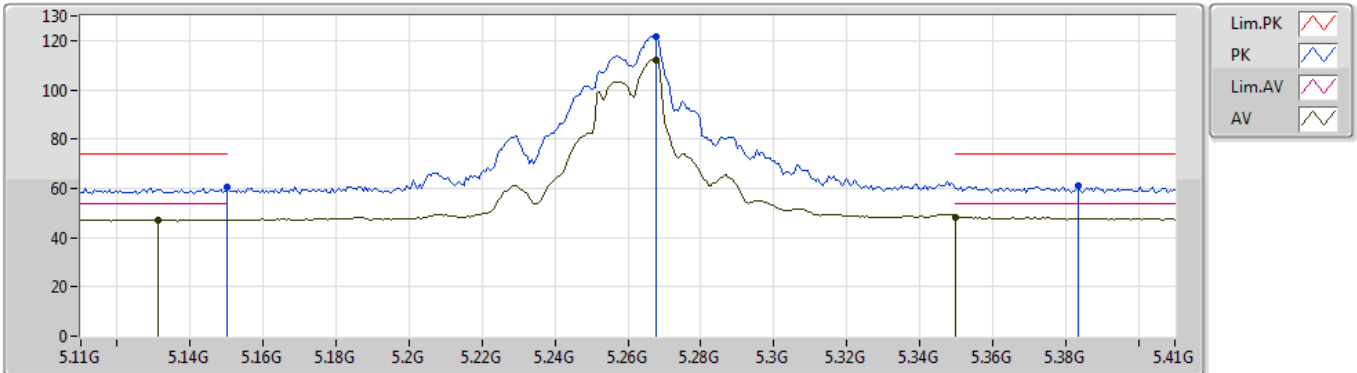
EUT Y_4TX
Setting 104
02-B-4-10
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	5.1442G	60.22	74.00	-13.78	7.94	3	Vertical	292	2.68	-	52.28
AV	5.1466G	47.62	54.00	-6.38	7.94	3	Vertical	292	2.68	-	39.68
PK	5.2624G	122.22	Inf	-Inf	8.15	3	Vertical	292	2.68	-	114.07
AV	5.2618G	112.65	Inf	-Inf	8.15	3	Vertical	292	2.68	-	104.50
PK	5.3962G	61.08	74.00	-12.92	8.34	3	Vertical	292	2.68	-	52.74
AV	5.374G	47.57	54.00	-6.43	8.30	3	Vertical	292	2.68	-	39.27

802.11a_Nss1,(6Mbps)_4TX

10/09/2019

5260MHz_TX



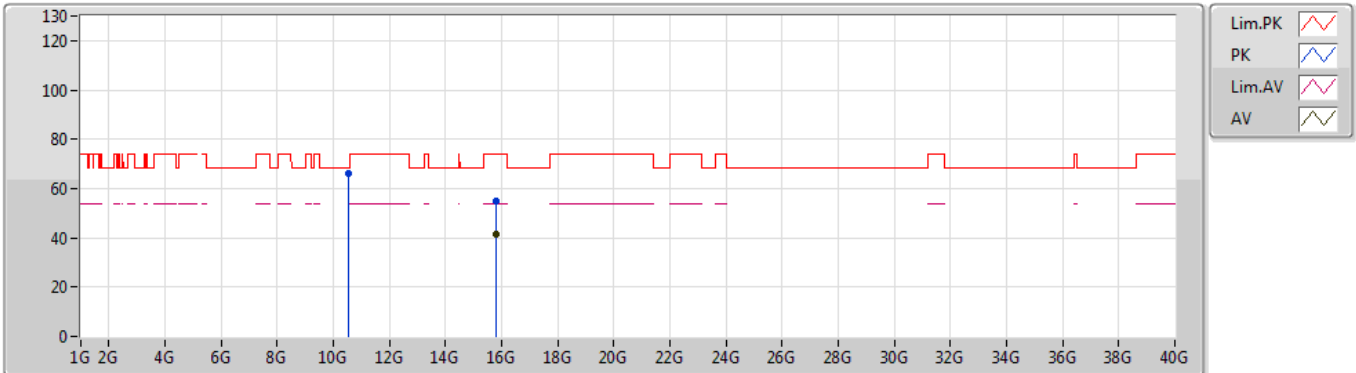
EUT Y_4TX
Setting 104
02-B-4-10
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	5.15G	60.61	74.00	-13.39	7.94	3	Horizontal	279	2.04	-	52.67
AV	5.131G	47.27	54.00	-6.73	7.91	3	Horizontal	279	2.04	-	39.36
PK	5.2678G	121.73	Inf	-Inf	8.16	3	Horizontal	279	2.04	-	113.57
AV	5.2678G	112.34	Inf	-Inf	8.16	3	Horizontal	279	2.04	-	104.18
PK	5.3836G	61.14	74.00	-12.86	8.32	3	Horizontal	279	2.04	-	52.82
AV	5.35G	48.21	54.00	-5.79	8.28	3	Horizontal	279	2.04	-	39.93

802.11a_Nss1,(6Mbps)_4TX

10/09/2019

5260MHz_TX



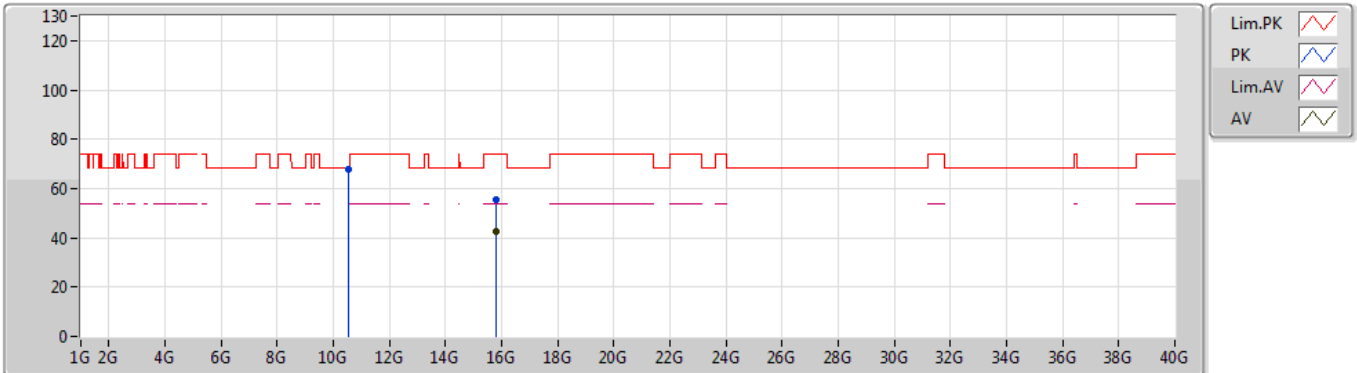
EUT Y_4TX
Setting 104
02-B-4
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	10.51792G	66.16	68.20	-2.04	14.57	3	Vertical	217	2.31	-	51.59			
PK	15.78052G	54.91	74.00	-19.09	15.44	3	Vertical	242	1.24	-	39.47			
AV	15.7804G	41.60	54.00	-12.40	15.44	3	Vertical	242	1.24	-	26.16			

802.11a_Nss1,(6Mbps)_4TX

10/09/2019

5260MHz_TX



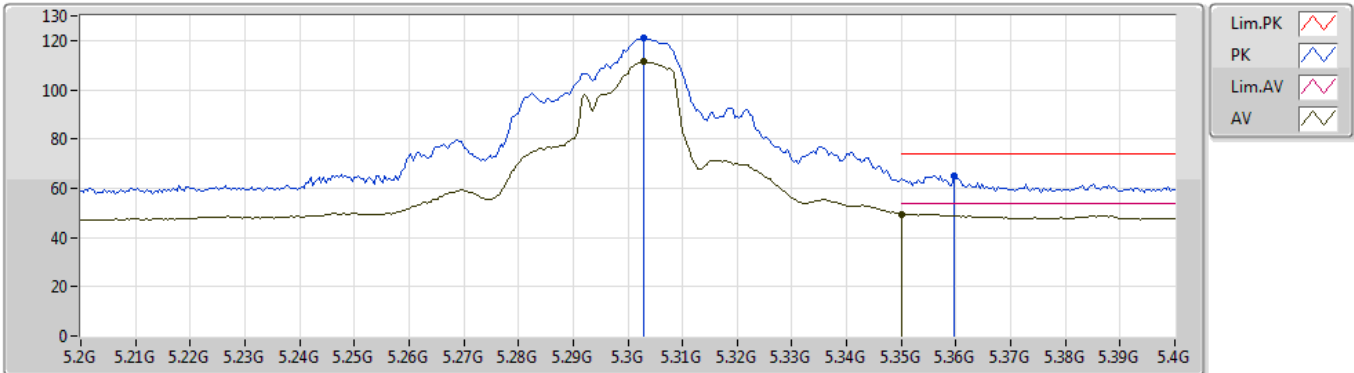
EUT Y_4TX
Setting 104
02-B-4
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	10.51952G	67.53	68.20	-0.67	14.57	3	Horizontal	221	2.94	-	52.96			
PK	15.78176G	55.52	74.00	-18.48	15.43	3	Horizontal	283	2.84	-	40.09			
AV	15.78168G	42.53	54.00	-11.47	15.43	3	Horizontal	283	2.84	-	27.10			

802.11a_Nss1,(6Mbps)_4TX

10/09/2019

5300MHz_TX



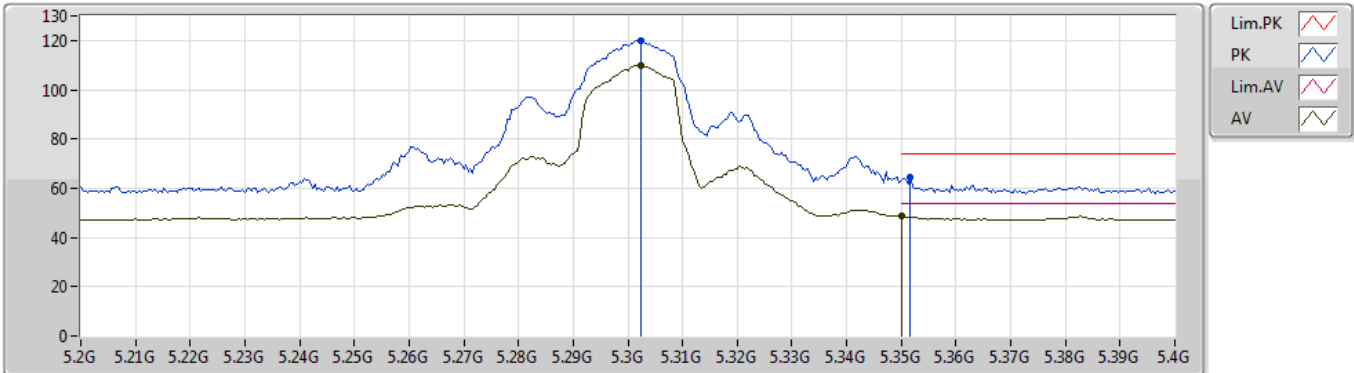
EUT Y_4TX
Setting 102
02-B-4-10
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	5.3028G	120.89	Inf	-Inf	8.21	3	Vertical	353	2.39	-	112.68
AV	5.3028G	111.38	Inf	-Inf	8.21	3	Vertical	353	2.39	-	103.17
PK	5.3596G	65.01	74.00	-8.99	8.29	3	Vertical	353	2.39	-	56.72
AV	5.35G	49.57	54.00	-4.43	8.28	3	Vertical	353	2.39	-	41.29

802.11a_Nss1,(6Mbps)_4TX

10/09/2019

5300MHz_TX



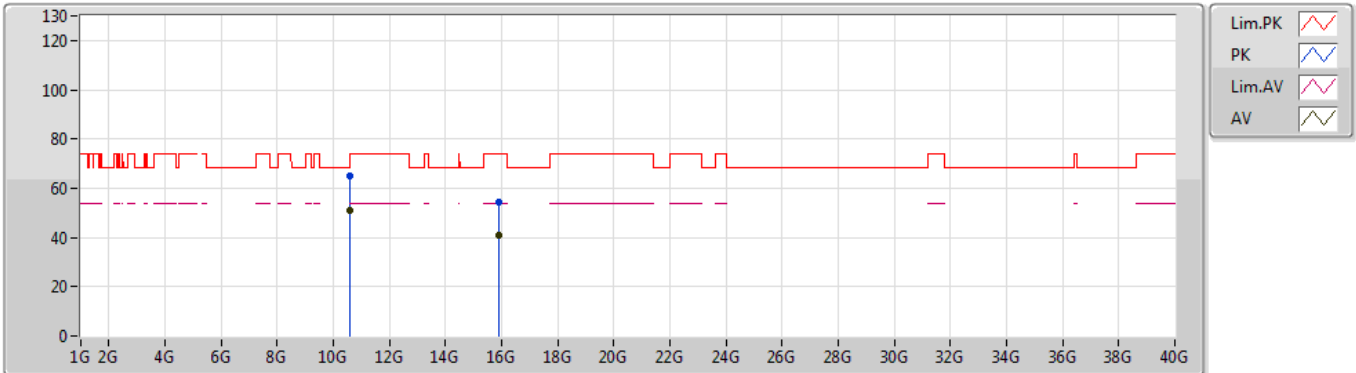
EUT Y_4TX
Setting 102
02-B-4-10
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	5.3024G	119.88	Inf	-Inf	8.21	3	Horizontal	105	2.24	-	111.67
AV	5.3024G	110.06	Inf	-Inf	8.21	3	Horizontal	105	2.24	-	101.85
PK	5.3516G	64.27	74.00	-9.73	8.28	3	Horizontal	105	2.24	-	55.99
AV	5.35G	48.54	54.00	-5.46	8.28	3	Horizontal	105	2.24	-	40.26

802.11a_Nss1,(6Mbps)_4TX

10/09/2019

5300MHz_TX



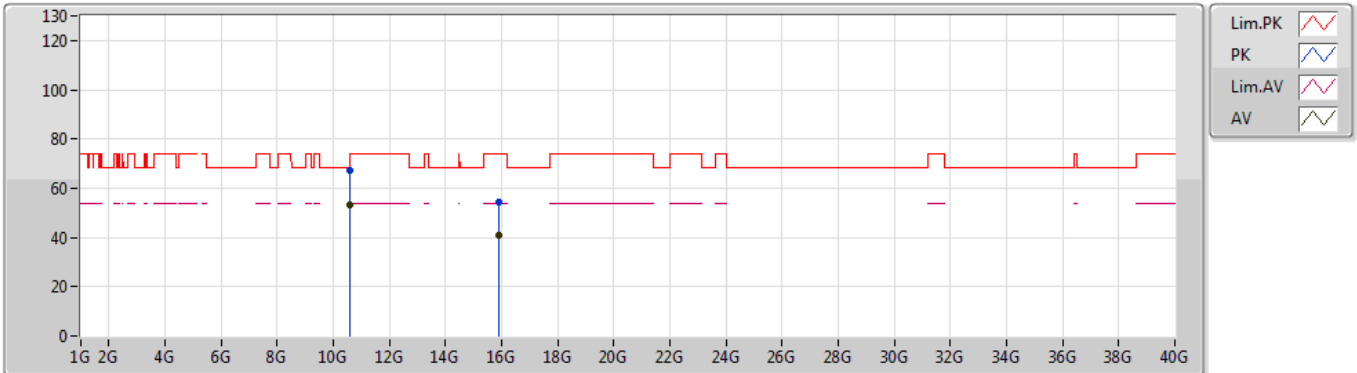
EUT Y_4TX
Setting 102
02-B-4
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	10.6008G	65.14	74.00	-8.86	14.51	3	Vertical	224	2.27	-	50.63			
AV	10.6008G	51.20	54.00	-2.80	14.51	3	Vertical	224	2.27	-	36.69			
PK	15.91208G	54.39	74.00	-19.61	15.09	3	Vertical	263	1.57	-	39.30			
AV	15.89304G	40.79	54.00	-13.21	15.14	3	Vertical	263	1.57	-	25.65			

802.11a_Nss1,(6Mbps)_4TX

10/09/2019

5300MHz_TX



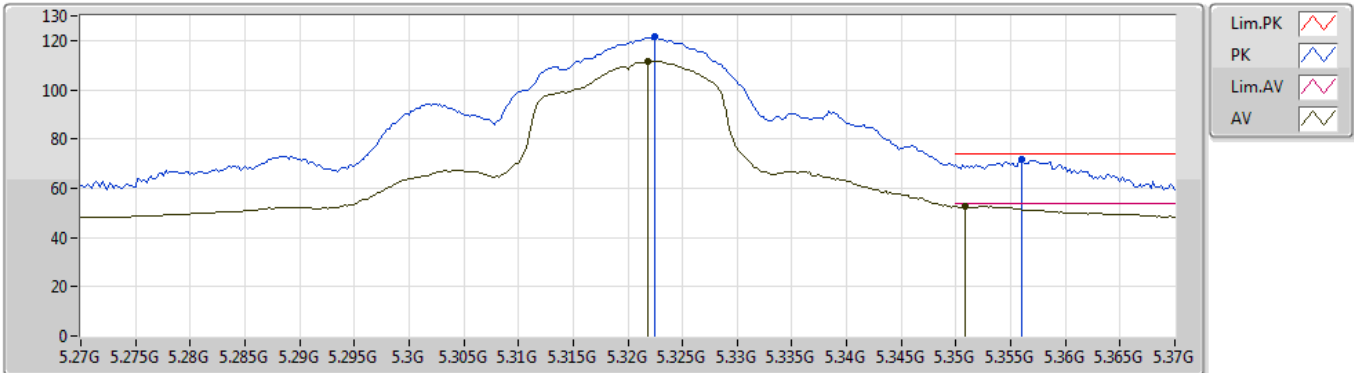
EUT Y_4TX
Setting 102
02-B-4
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	10.60014G	66.99	74.00	-7.01	14.51	3	Horizontal	239	1.48	-	52.48			
AV	10.60012G	53.44	54.00	-0.56	14.51	3	Horizontal	239	1.48	-	38.93			
PK	15.9124G	54.18	74.00	-19.82	15.09	3	Horizontal	190	2.84	-	39.09			
AV	15.89648G	41.09	54.00	-12.91	15.14	3	Horizontal	190	2.84	-	25.95			

802.11a_Nss1,(6Mbps)_4TX

10/09/2019

5320MHz_TX



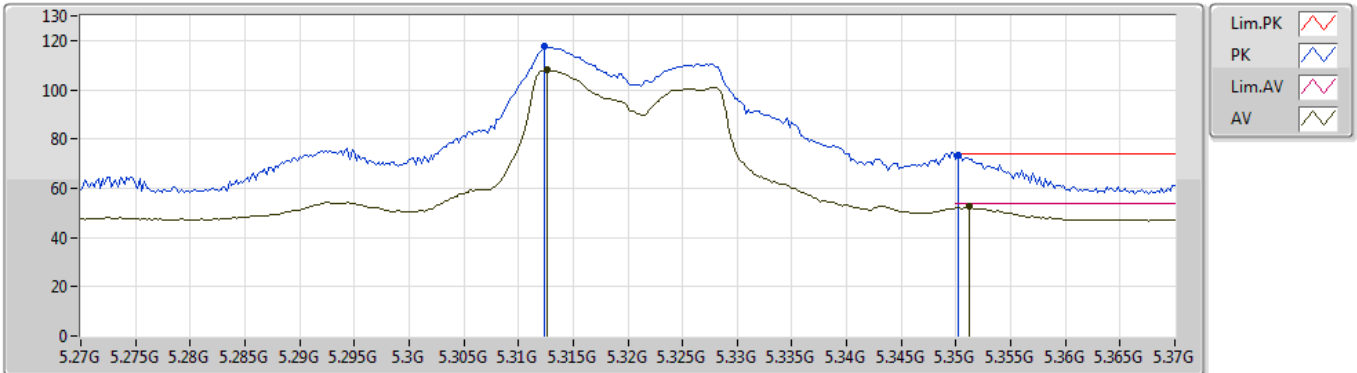
EUT Y_4TX
Setting 93
02-B-4-10
FSU(100015)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw			
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)			
PK	5.3224G	121.37	Inf	-Inf	8.23	3	Vertical	316	2.74	-	113.14			
AV	5.3218G	111.58	Inf	-Inf	8.23	3	Vertical	316	2.74	-	103.35			
PK	5.356G	71.69	74.00	-2.31	8.28	3	Vertical	316	2.74	-	63.41			
AV	5.3508G	52.60	54.00	-1.40	8.28	3	Vertical	316	2.74	-	44.32			

802.11a_Nss1,(6Mbps)_4TX

10/09/2019

5320MHz_TX



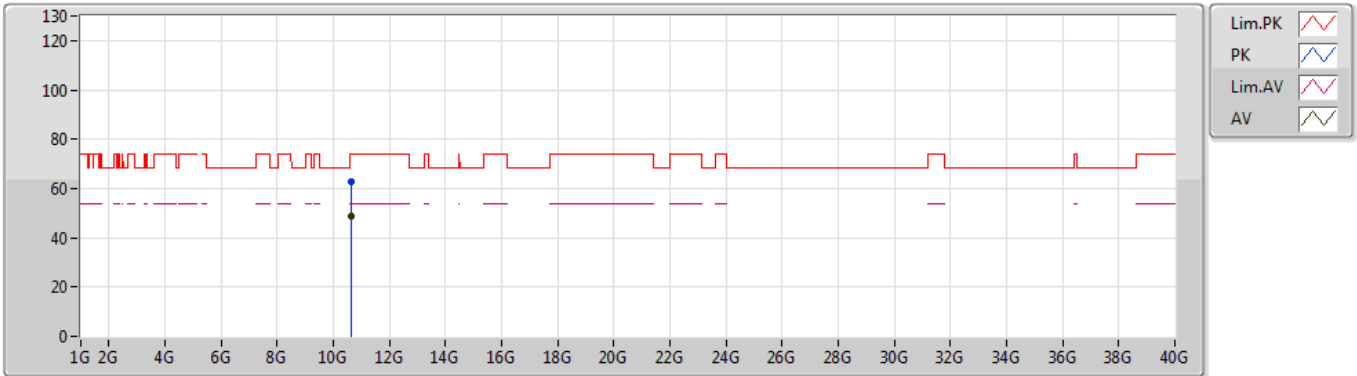
EUT Y_4TX
Setting 93
02-B-4-10
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	5.3124G	117.46	Inf	-Inf	8.22	3	Horizontal	82	1.51	-	109.24
AV	5.3126G	108.08	Inf	-Inf	8.22	3	Horizontal	82	1.51	-	99.86
PK	5.3502G	73.48	74.00	-0.52	8.28	3	Horizontal	82	1.51	-	65.20
AV	5.3512G	52.54	54.00	-1.46	8.28	3	Horizontal	82	1.51	-	44.26

802.11a_Nss1,(6Mbps)_4TX

10/09/2019

5320MHz_TX



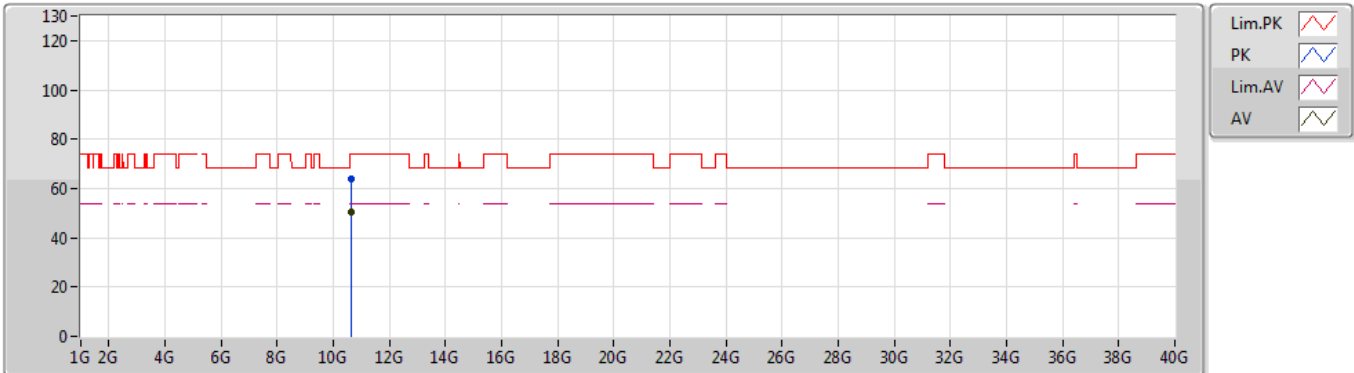
EUT Y_4TX
Setting 93
02-B-4
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	10.63808G	62.49	74.00	-11.51	14.49	3	Vertical	228	2.79	-	48.00			
AV	10.63832G	48.88	54.00	-5.12	14.49	3	Vertical	228	2.79	-	34.39			

802.11a_Nss1,(6Mbps)_4TX

10/09/2019

5320MHz_TX



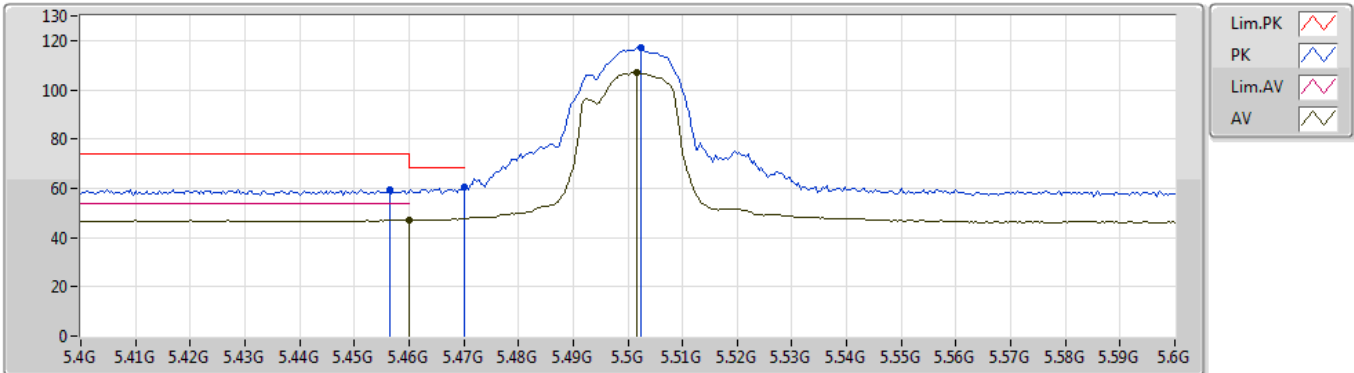
EUT Y_4TX
Setting 93
02-B-4
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	10.63884G	63.91	74.00	-10.09	14.49	3	Horizontal	227	1.49	-	49.42			
AV	10.63896G	50.24	54.00	-3.76	14.49	3	Horizontal	227	1.49	-	35.75			

802.11a_Nss1,(6Mbps)_4TX

10/09/2019

5500MHz_TX



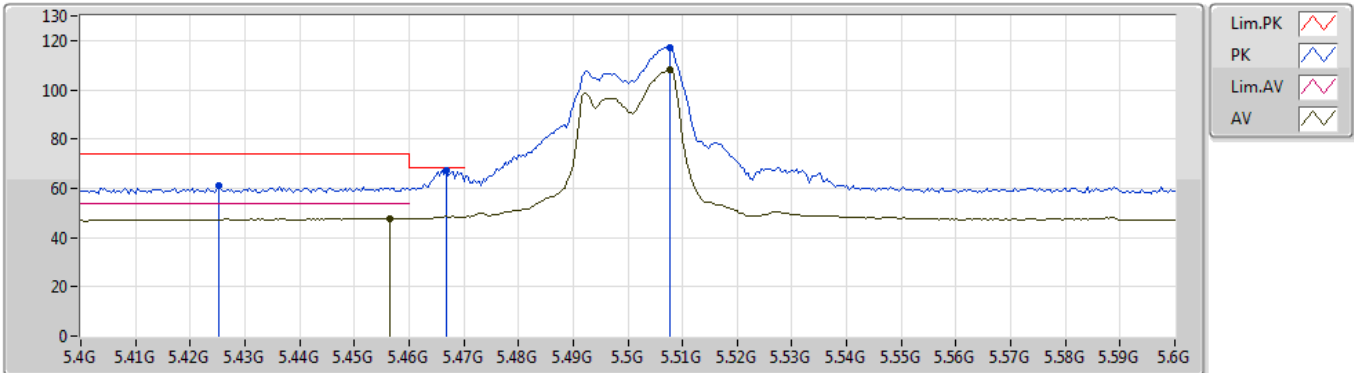
EUT Y_4TX
Setting 79
02-B-4-10
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	5.4564G	59.56	74.00	-14.44	8.44	3	Vertical	305	2.84	-	51.12			
AV	5.46G	47.12	54.00	-6.88	8.45	3	Vertical	305	2.84	-	38.67			
PK	5.47G	60.59	68.20	-7.61	8.46	3	Vertical	305	2.84	-	52.13			
PK	5.5024G	116.92	Inf	-Inf	8.52	3	Vertical	305	2.84	-	108.40			
AV	5.5016G	107.15	Inf	-Inf	8.52	3	Vertical	305	2.84	-	98.63			

802.11a_Nss1,(6Mbps)_4TX

10/09/2019

5500MHz_TX



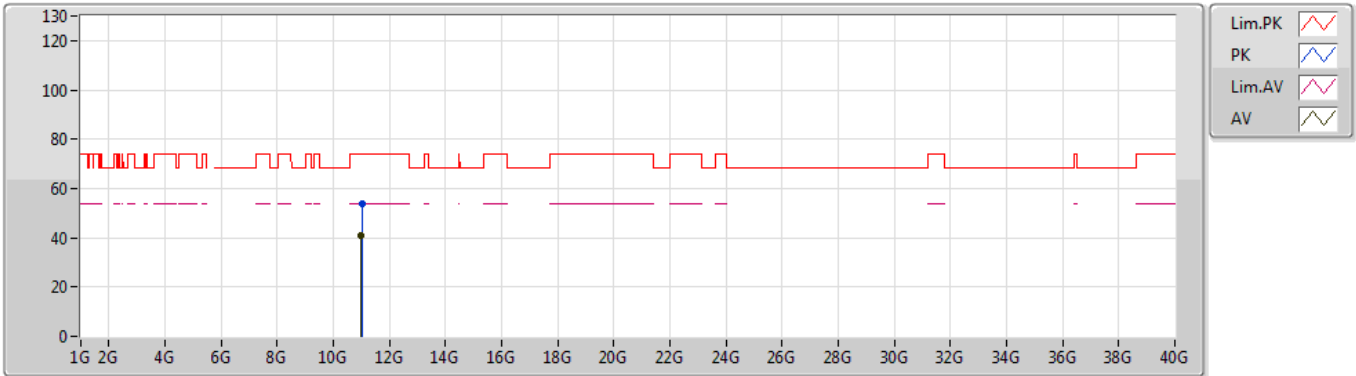
EUT Y_4TX
Setting 79
02-B-4-10
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	5.4252G	60.80	74.00	-13.20	8.39	3	Horizontal	276	1.74	-	52.41			
PK	5.4668G	67.52	68.20	-0.68	8.46	3	Horizontal	276	1.74	-	59.06			
AV	5.4564G	47.87	54.00	-6.13	8.44	3	Horizontal	276	1.74	-	39.43			
PK	5.5076G	117.38	Inf	-Inf	8.52	3	Horizontal	276	1.74	-	108.86			
AV	5.5076G	107.99	Inf	-Inf	8.52	3	Horizontal	276	1.74	-	99.47			

802.11a_Nss1,(6Mbps)_4TX

10/09/2019

5500MHz_TX



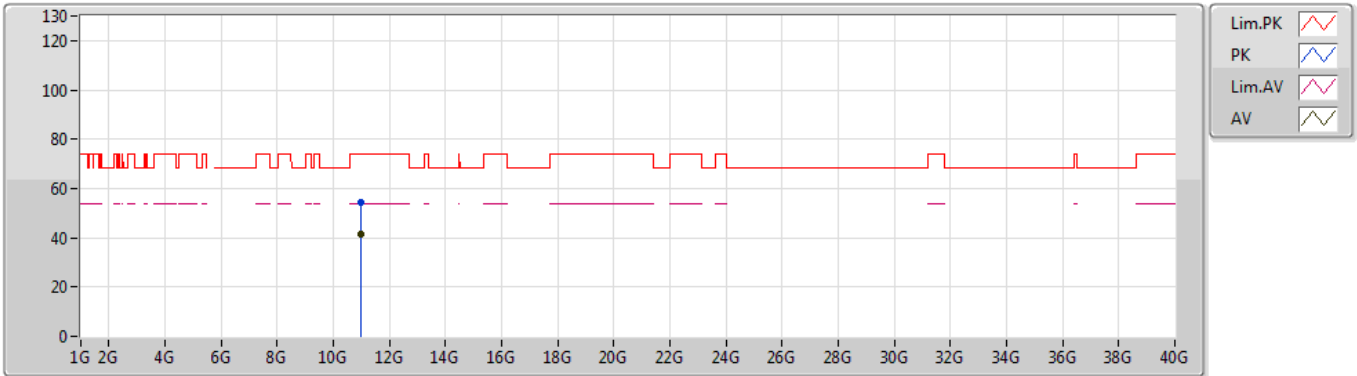
EUT Y_4TX
Setting 79
02-B-4
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	11.01032G	54.02	74.00	-19.98	14.28	3	Vertical	235	1.40	-	39.74			
AV	11.00208G	40.77	54.00	-13.23	14.26	3	Vertical	235	1.40	-	26.51			

802.11a_Nss1,(6Mbps)_4TX

10/09/2019

5500MHz_TX



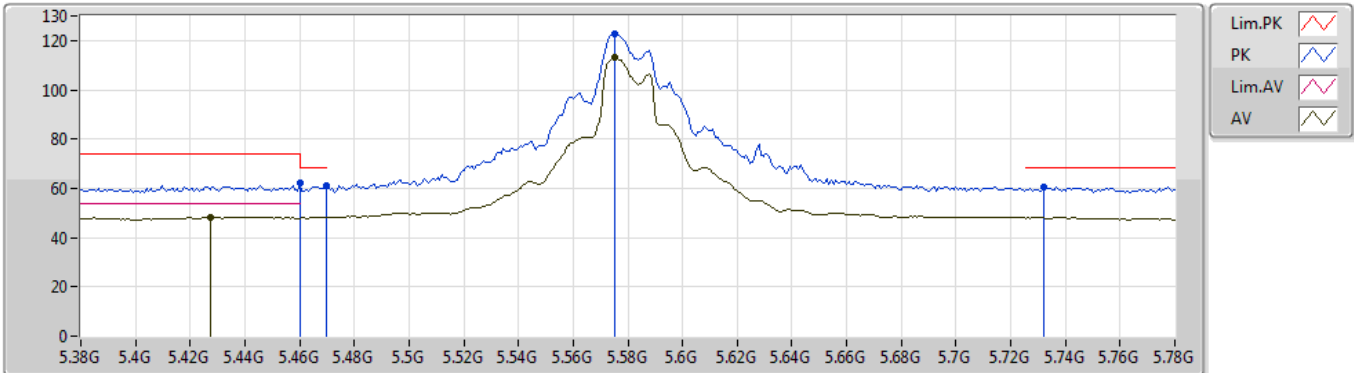
EUT Y_4TX
Setting 79
02-B-4
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	11.00096G	54.35	74.00	-19.65	14.26	3	Horizontal	332	1.97	-	40.09			
AV	11.00144G	41.56	54.00	-12.44	14.26	3	Horizontal	332	1.97	-	27.30			

802.11a_Nss1,(6Mbps)_4TX

10/09/2019

5580MHz_TX



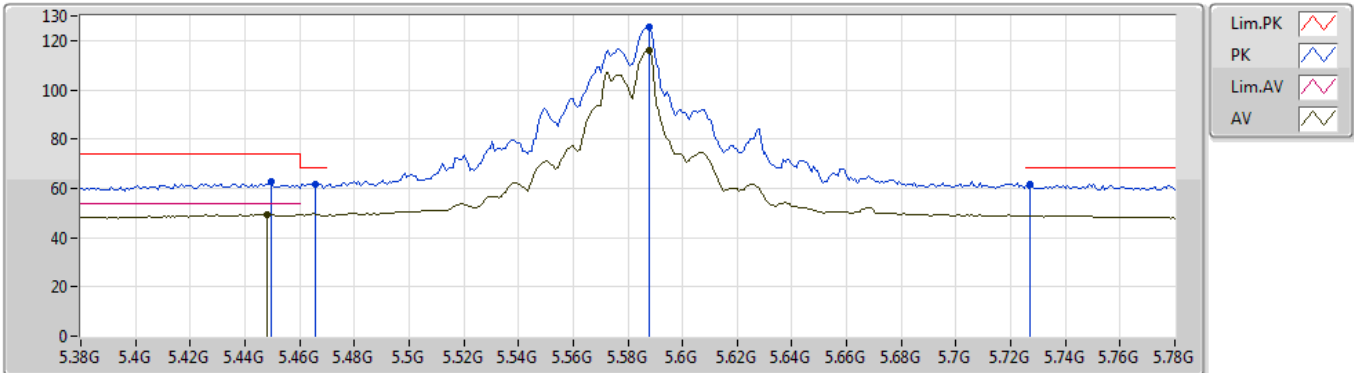
EUT Y_4TX
Setting 120
02-B-4-10
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	5.46G	62.12	74.00	-11.88	8.45	3	Vertical	2	1.37	-	53.67
AV	5.4272G	48.29	54.00	-5.71	8.40	3	Vertical	2	1.37	-	39.89
PK	5.4696G	61.30	68.20	-6.90	8.46	3	Vertical	2	1.37	-	52.84
PK	5.5752G	122.99	Inf	-Inf	8.57	3	Vertical	2	1.37	-	114.42
AV	5.5752G	112.92	Inf	-Inf	8.57	3	Vertical	2	1.37	-	104.35
PK	5.732G	60.55	68.20	-7.65	8.80	3	Vertical	2	1.37	-	51.75

802.11a_Nss1,(6Mbps)_4TX

10/09/2019

5580MHz_TX



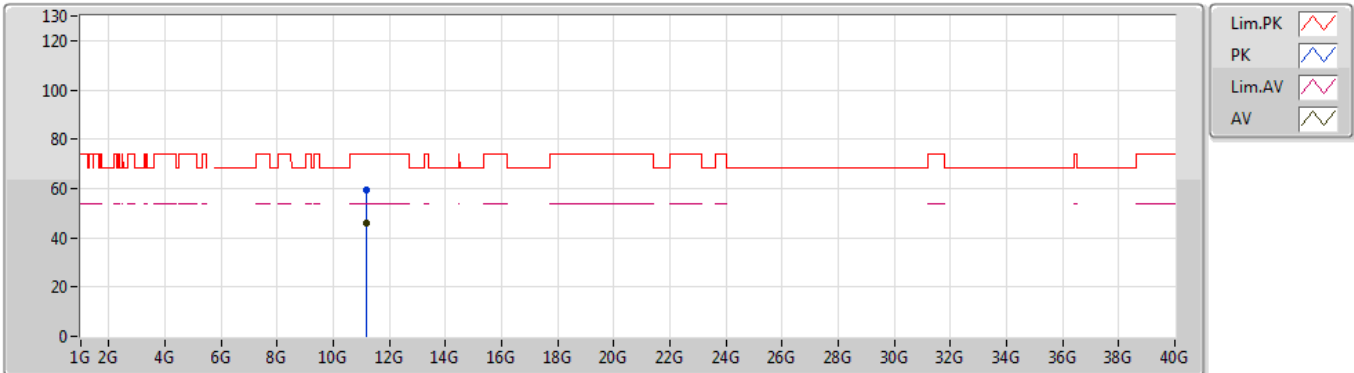
EUT Y_4TX
Setting 120
02-B-4-10
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	5.4496G	62.77	74.00	-11.23	8.42	3	Horizontal	274	1.76	-	54.35
AV	5.448G	49.28	54.00	-4.72	8.42	3	Horizontal	274	1.76	-	40.86
PK	5.4656G	61.61	68.20	-6.59	8.46	3	Horizontal	274	1.76	-	53.15
PK	5.588G	125.73	Inf	-Inf	8.57	3	Horizontal	274	1.76	-	117.16
AV	5.588G	115.85	Inf	-Inf	8.57	3	Horizontal	274	1.76	-	107.28
PK	5.7272G	61.58	68.20	-6.62	8.80	3	Horizontal	274	1.76	-	52.78

802.11a_Nss1,(6Mbps)_4TX

10/09/2019

5580MHz_TX



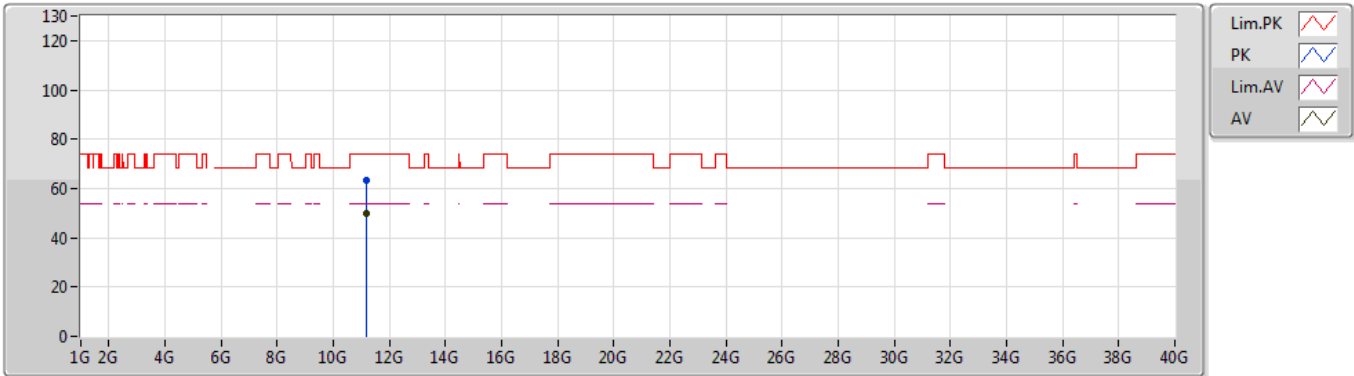
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Setting 120
02-B-4
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	11.16736G	59.12	74.00	-14.88	14.47	3	Vertical	262	1.82	-	44.65			
AV	11.16816G	45.95	54.00	-8.05	14.47	3	Vertical	262	1.82	-	31.48			

802.11a_Nss1,(6Mbps)_4TX

10/09/2019

5580MHz_TX



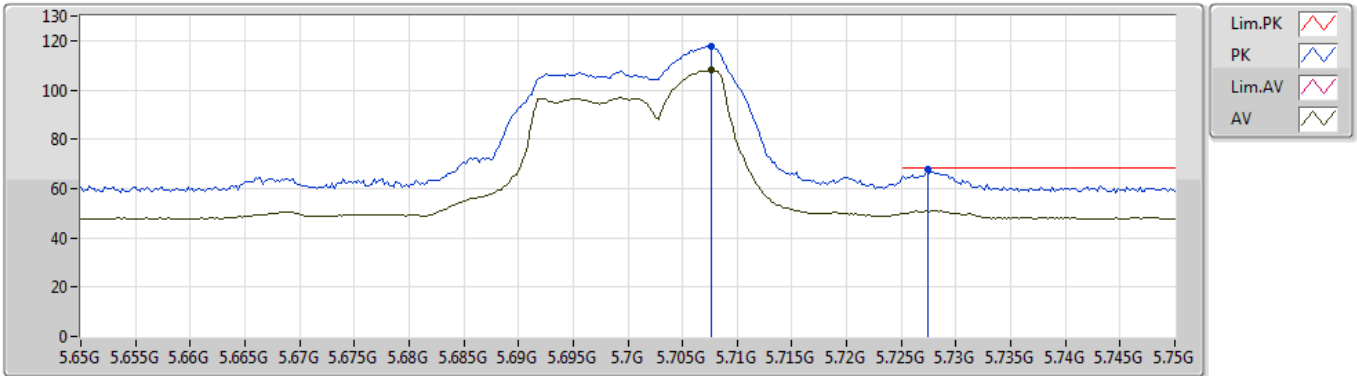
EUT Y_4TX
Setting 120
02-B-4
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	11.16144G	63.27	74.00	-10.73	14.47	3	Horizontal	12	1.82	-	48.80			
AV	11.16128G	49.95	54.00	-4.05	14.47	3	Horizontal	12	1.82	-	35.48			

802.11a_Nss1,(6Mbps)_4TX

10/09/2019

5700MHz_TX



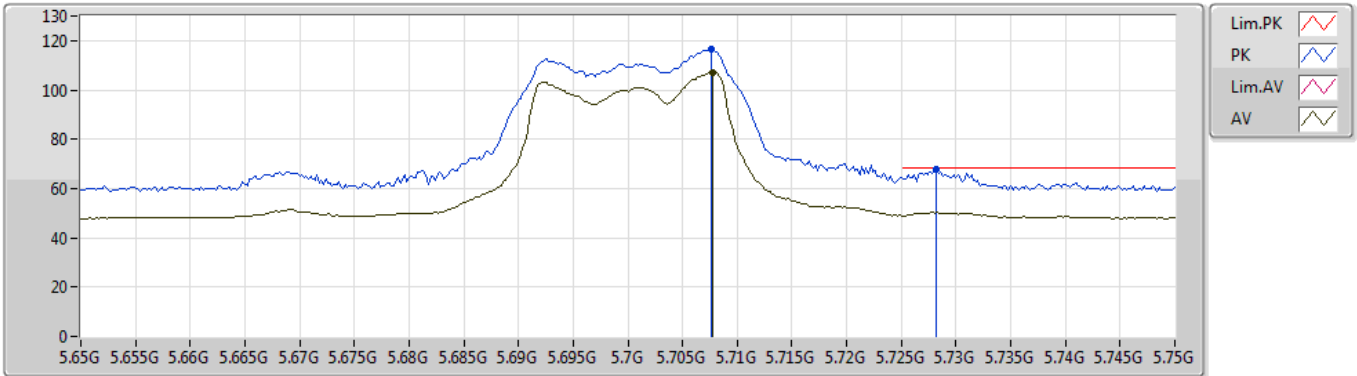
EUT Y_4TX
Setting 81
02-B-4-10
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	5.7076G	117.80	Inf	-Inf	8.76	3	Vertical	268	1.75	-	109.04			
AV	5.7076G	108.24	Inf	-Inf	8.76	3	Vertical	268	1.75	-	99.48			
PK	5.7274G	67.64	68.20	-0.56	8.80	3	Vertical	268	1.75	-	58.84			

802.11a_Nss1,(6Mbps)_4TX

10/09/2019

5700MHz_TX



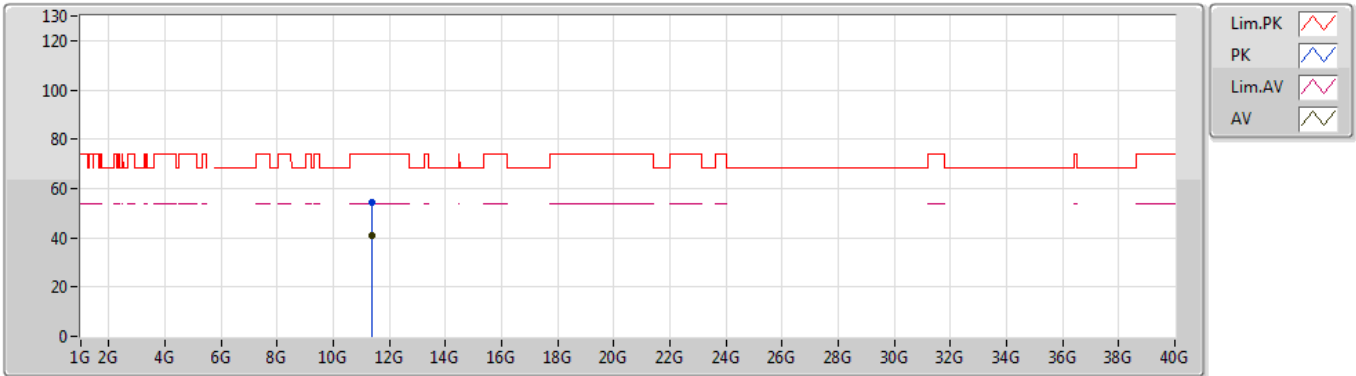
EUT Y_4TX
Setting 81
02-B-4-10
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	5.7076G	116.41	Inf	-Inf	8.76	3	Horizontal	266	1.51	-	107.65
AV	5.7078G	107.00	Inf	-Inf	8.76	3	Horizontal	266	1.51	-	98.24
PK	5.7282G	67.54	68.20	-0.66	8.80	3	Horizontal	266	1.51	-	58.74

802.11a_Nss1,(6Mbps)_4TX

10/09/2019

5700MHz_TX



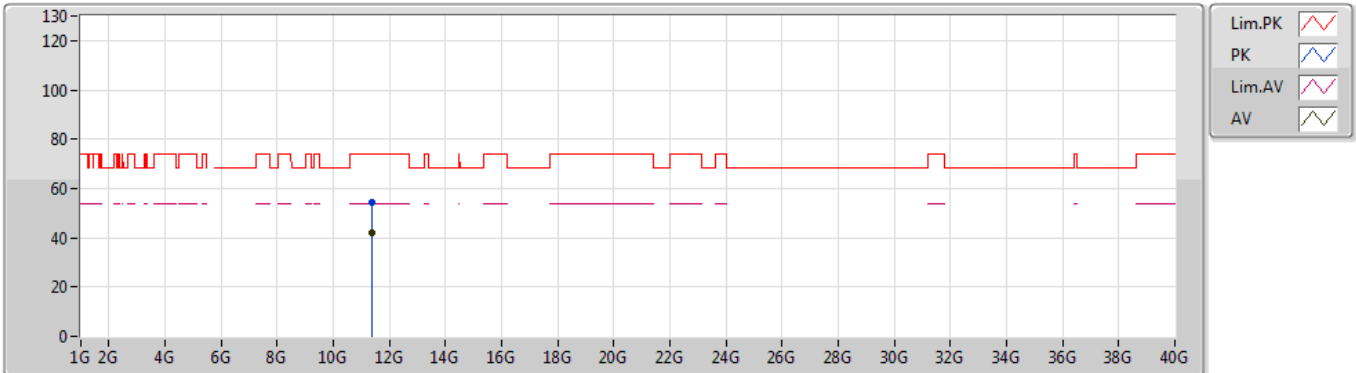
EUT Y_4TX
Setting 81
02-B-4
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	11.40056G	54.24	74.00	-19.76	14.77	3	Vertical	282	2.35	-	39.47			
AV	11.40024G	40.92	54.00	-13.08	14.77	3	Vertical	282	2.35	-	26.15			

802.11a_Nss1,(6Mbps)_4TX

10/09/2019

5700MHz_TX



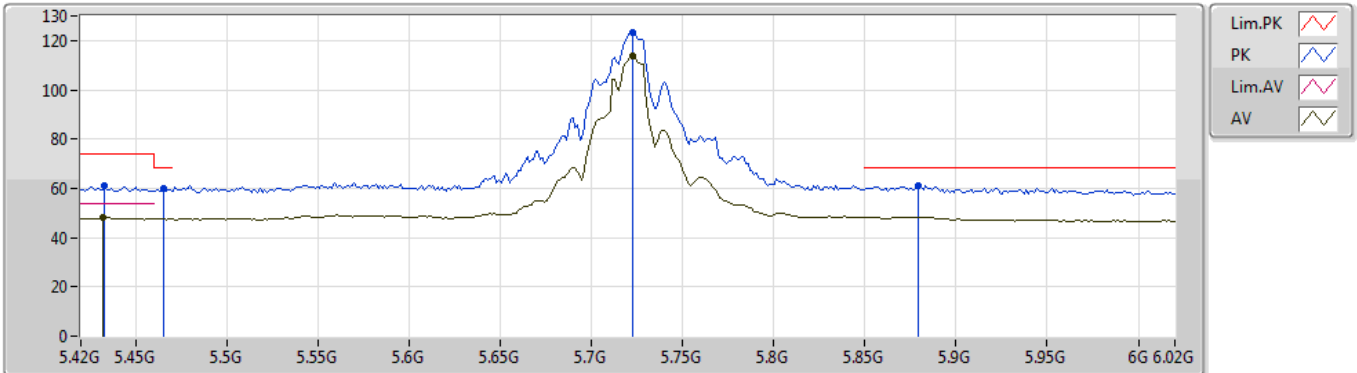
EUT Y_4TX
Setting 81
02-B-4
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	11.396G	54.41	74.00	-19.59	14.77	3	Horizontal	247	2.94	-	39.64			
AV	11.4G	42.21	54.00	-11.79	14.77	3	Horizontal	247	2.94	-	27.44			

802.11a_Nss1,(6Mbps)_4TX

10/09/2019

5720MHz Straddle 5.47-5.725GHz_TX



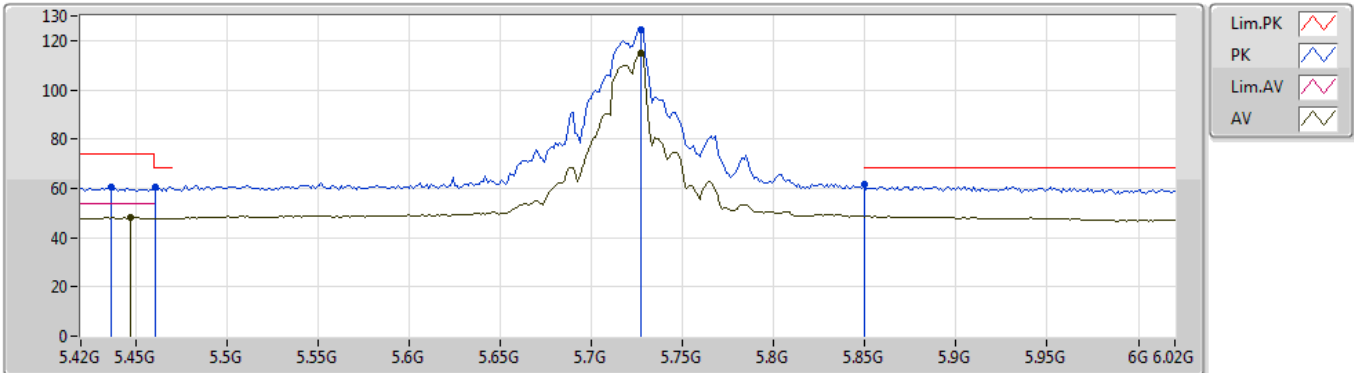
EUT Y_4TX
Setting 120
02-B-4-10
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	5.4332G	60.84	74.00	-13.16	8.40	3	Vertical	0	2.64	-	52.44			
AV	5.432G	48.05	54.00	-5.95	8.40	3	Vertical	0	2.64	-	39.65			
PK	5.4656G	59.79	68.20	-8.41	8.46	3	Vertical	0	2.64	-	51.33			
PK	5.7224G	123.35	Inf	-Inf	8.78	3	Vertical	0	2.64	-	114.57			
AV	5.7224G	113.69	Inf	-Inf	8.78	3	Vertical	0	2.64	-	104.91			
PK	5.8796G	61.02	68.20	-7.18	8.92	3	Vertical	0	2.64	-	52.10			

802.11a_Nss1,(6Mbps)_4TX

10/09/2019

5720MHz Straddle 5.47-5.725GHz_TX



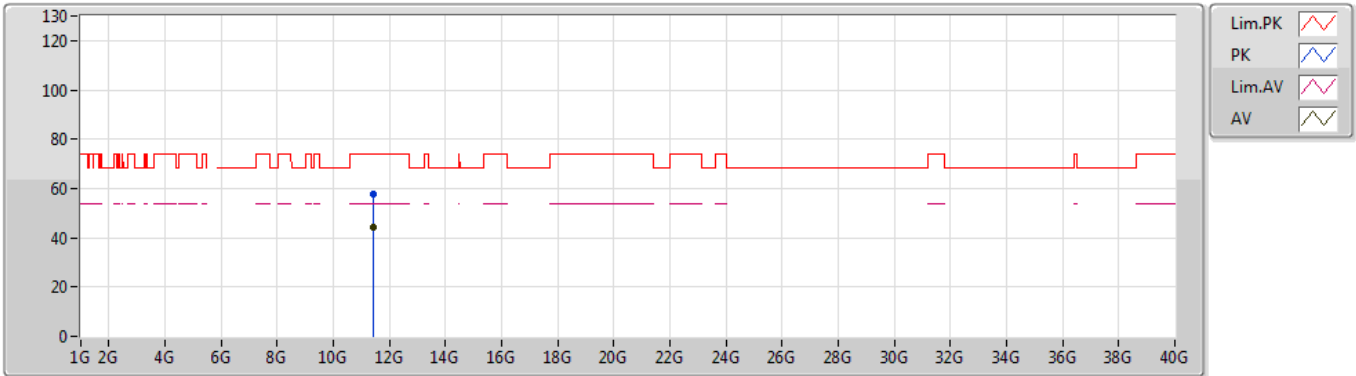
EUT Y_4TX
Setting 120
02-B-4-10
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	5.4368G	60.61	74.00	-13.39	8.41	3	Horizontal	270	1.82	-	52.20
AV	5.4476G	48.11	54.00	-5.89	8.42	3	Horizontal	270	1.82	-	39.69
PK	5.4608G	60.57	68.20	-7.63	8.45	3	Horizontal	270	1.82	-	52.12
PK	5.7272G	124.51	Inf	-Inf	8.80	3	Horizontal	270	1.82	-	115.71
AV	5.7272G	114.77	Inf	-Inf	8.80	3	Horizontal	270	1.82	-	105.97
PK	5.85G	61.57	68.20	-6.63	8.90	3	Horizontal	270	1.82	-	52.67

802.11a_Nss1,(6Mbps)_4TX

10/09/2019

5720MHz Straddle 5.47-5.725GHz_TX



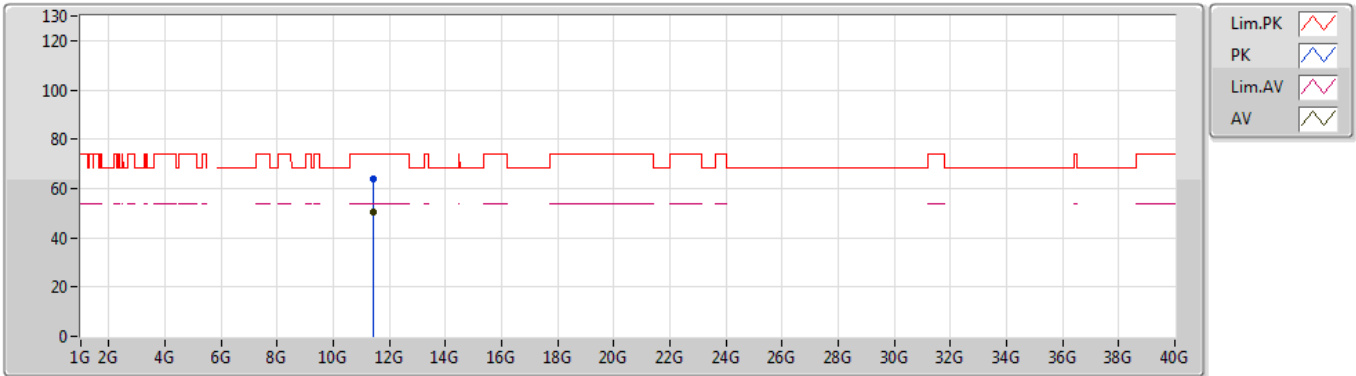
EUT Y_4TX
Setting 120
02-B-4
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	11.44104G	57.54	74.00	-16.46	14.82	3	Vertical	204	1.82	-	42.72			
AV	11.4408G	44.42	54.00	-9.58	14.82	3	Vertical	204	1.82	-	29.60			

802.11a_Nss1,(6Mbps)_4TX

10/09/2019

5720MHz Straddle 5.47-5.725GHz_TX



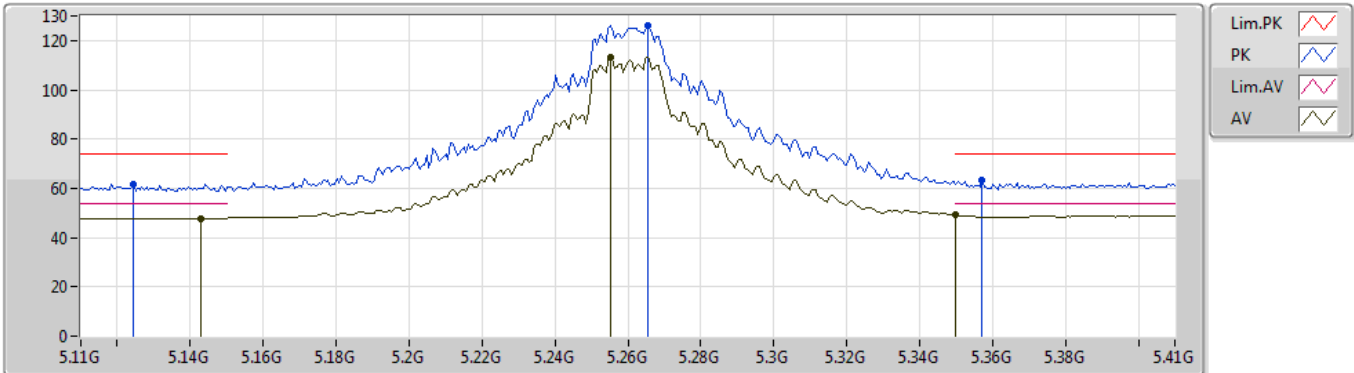
EUT Y_4TX
Setting 120
02-B-4
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	11.43536G	64.09	74.00	-9.91	14.82	3	Horizontal	221	2.18	-	49.27
AV	11.43464G	50.17	54.00	-3.83	14.82	3	Horizontal	221	2.18	-	35.35

802.11ax HEW20_Nss1,(MCS0)_4TX

10/09/2019

5260MHz_TX



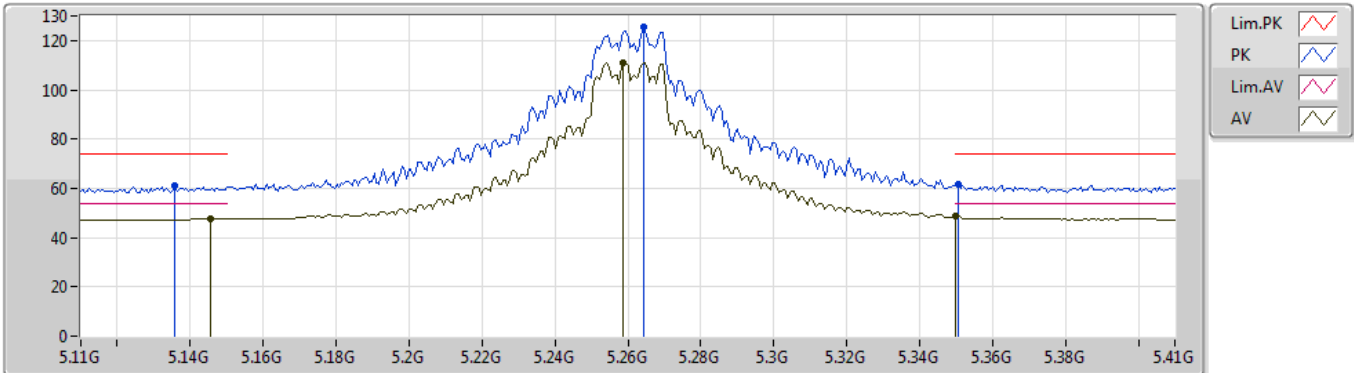
EUT Y_4TX
Setting 120
02-G-3-10
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	5.1244G	61.67	74.00	-12.33	7.89	3	Vertical	310	2.66	-	53.78
AV	5.143G	47.90	54.00	-6.10	7.94	3	Vertical	310	2.66	-	39.96
PK	5.2654G	125.96	Inf	-Inf	8.16	3	Vertical	310	2.66	-	117.80
AV	5.2552G	113.18	Inf	-Inf	8.15	3	Vertical	310	2.66	-	105.03
PK	5.3572G	63.45	74.00	-10.55	8.28	3	Vertical	310	2.66	-	55.17
AV	5.35G	49.13	54.00	-4.87	8.28	3	Vertical	310	2.66	-	40.85

802.11ax HEW20_Nss1,(MCS0)_4TX

10/09/2019

5260MHz_TX



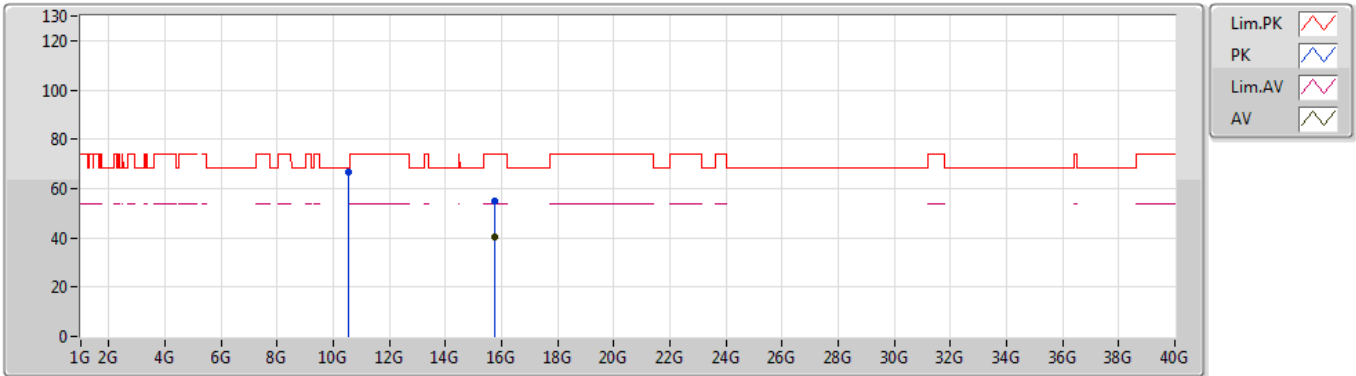
EUT Y_4TX
Setting 120
02-G-3-10
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	5.1358G	60.95	74.00	-13.05	7.92	3	Horizontal	229	1.56	-	53.03
AV	5.1454G	47.73	54.00	-6.27	7.94	3	Horizontal	229	1.56	-	39.79
PK	5.2642G	125.32	Inf	-Inf	8.16	3	Horizontal	229	1.56	-	117.16
AV	5.2588G	111.15	Inf	-Inf	8.15	3	Horizontal	229	1.56	-	103.00
PK	5.3506G	61.71	74.00	-12.29	8.28	3	Horizontal	229	1.56	-	53.43
AV	5.35G	48.84	54.00	-5.16	8.28	3	Horizontal	229	1.56	-	40.56

802.11ax HEW20_Nss1,(MCS0)_4TX

10/09/2019

5260MHz_TX



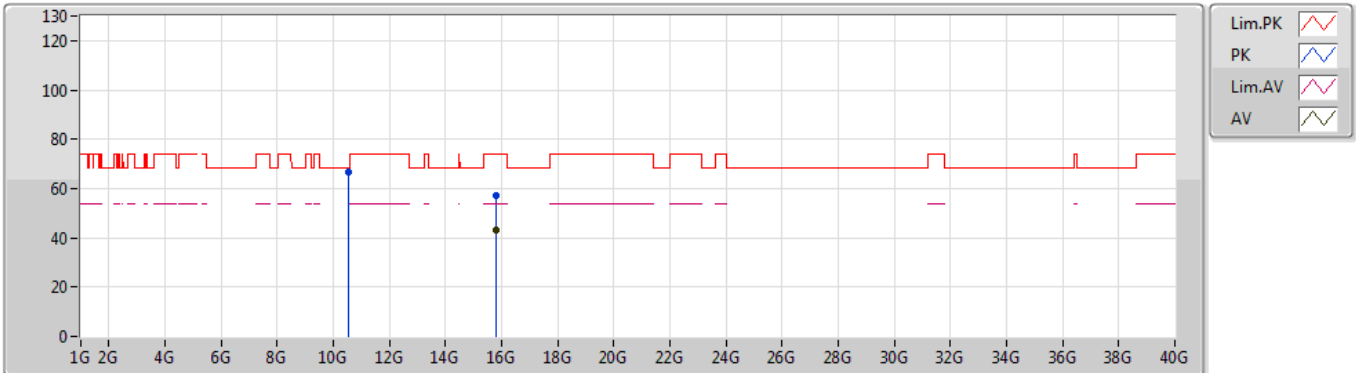
EUT Y_4TX
Setting 120
02-G-3
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	10.51912G	66.90	68.20	-1.30	14.57	3	Vertical	142	2.47	-	52.33
PK	15.77516G	55.09	74.00	-18.91	15.45	3	Vertical	280	1.28	-	39.64
AV	15.77024G	40.57	54.00	-13.43	15.46	3	Vertical	280	1.28	-	25.11

802.11ax HEW20_Nss1,(MCS0)_4TX

10/09/2019

5260MHz_TX



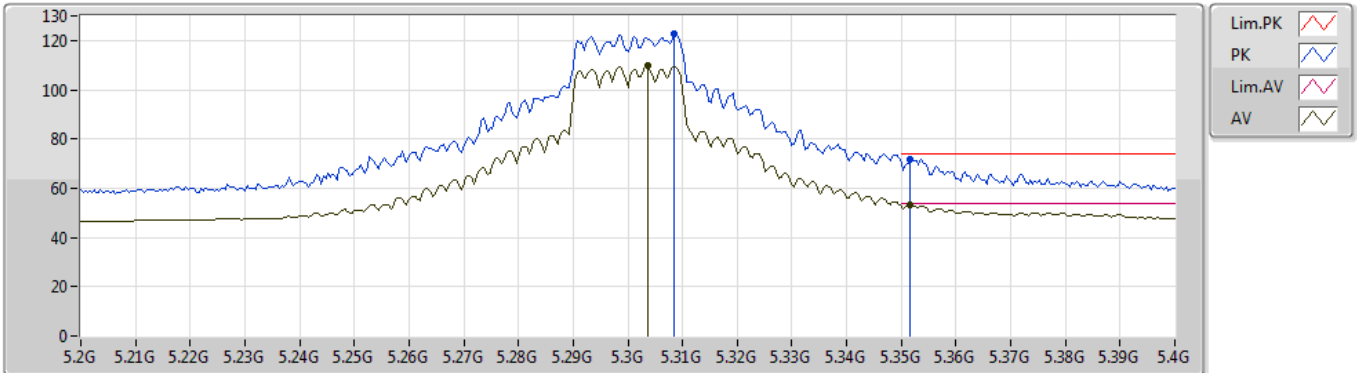
EUT Y_4TX
Setting 120
02-G-3
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	10.5168G	66.66	68.20	-1.54	14.56	3	Horizontal	353	2.11	-	52.10			
PK	15.78052G	56.96	74.00	-17.04	15.44	3	Horizontal	293	1.83	-	41.52			
AV	15.78064G	43.40	54.00	-10.60	15.44	3	Horizontal	293	1.83	-	27.96			

802.11ax HEW20_Nss1,(MCS0)_4TX

10/09/2019

5300MHz_TX



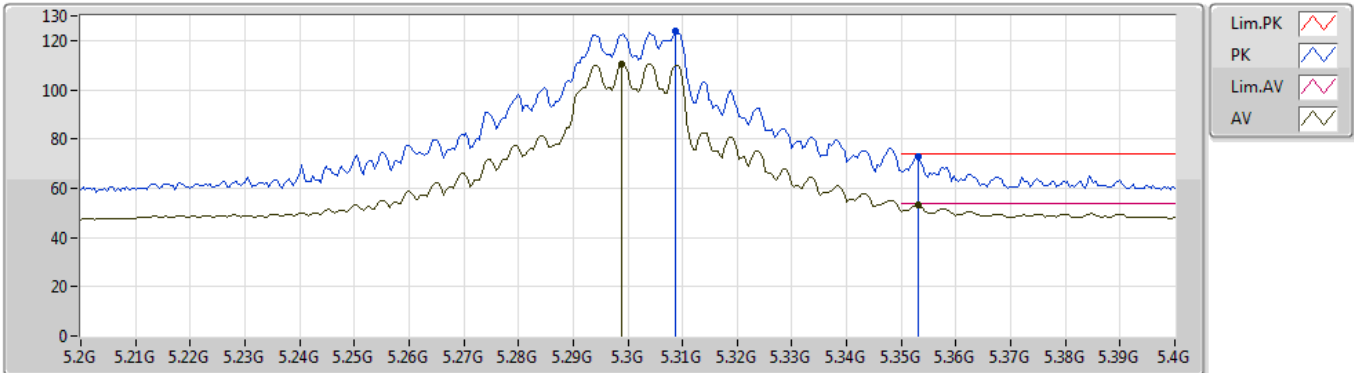
EUT Y_4TX
Setting 106
02-G-3-10
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	5.3084G	122.78	Inf	-Inf	8.22	3	Vertical	2	1.89	-	114.56
AV	5.3036G	109.58	Inf	-Inf	8.21	3	Vertical	2	1.89	-	101.37
PK	5.3516G	71.91	74.00	-2.09	8.28	3	Vertical	2	1.89	-	63.63
AV	5.3516G	53.39	54.00	-0.61	8.28	3	Vertical	2	1.89	-	45.11

802.11ax HEW20_Nss1,(MCS0)_4TX

10/09/2019

5300MHz_TX



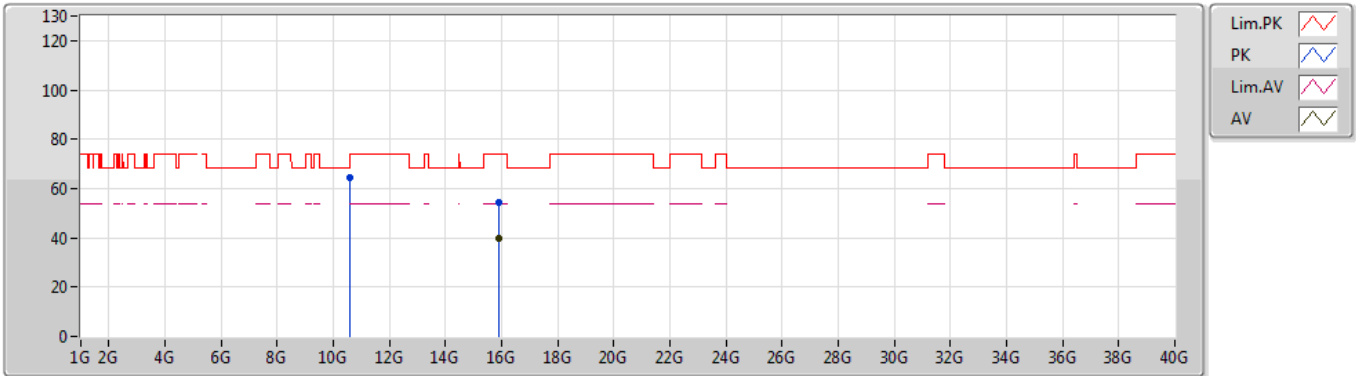
EUT Y_4TX
Setting 106
02-G-3-10
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	5.3088G	123.73	Inf	-Inf	8.22	3	Horizontal	271	1.89	-	115.51
AV	5.2988G	110.32	Inf	-Inf	8.21	3	Horizontal	271	1.89	-	102.11
PK	5.3532G	72.69	74.00	-1.31	8.28	3	Horizontal	271	1.89	-	64.41
AV	5.3532G	53.25	54.00	-0.75	8.28	3	Horizontal	271	1.89	-	44.97

802.11ax HEW20_Nss1,(MCS0)_4TX

10/09/2019

5300MHz_TX



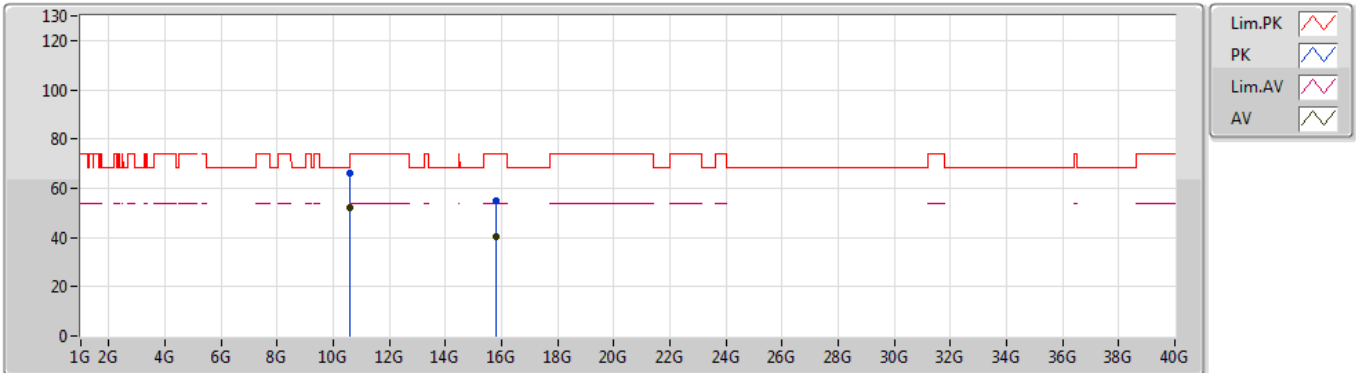
EUT Y_4TX
Setting 106
02-G-3
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	10.5996G	64.30	68.20	-3.90	14.51	3	Vertical	44	2.14	-	49.79			
PK	15.89424G	54.19	74.00	-19.81	15.15	3	Vertical	5	2.92	-	39.04			
AV	15.9014G	39.92	54.00	-14.08	15.13	3	Vertical	5	2.92	-	24.79			

802.11ax HEW20_Nss1,(MCS0)_4TX

10/09/2019

5300MHz_TX



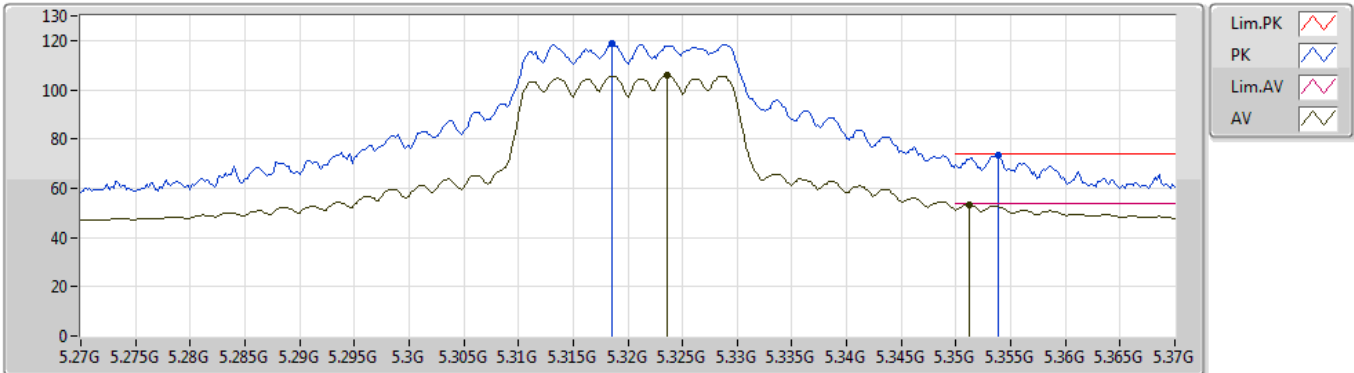
EUT Y_4TX
Setting 106
02-G-3
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	10.59908G	66.21	68.20	-1.99	14.51	3	Horizontal	349	1.17	-	51.70			
AV	10.60012G	51.93	54.00	-2.07	14.51	3	Horizontal	349	1.17	-	37.42			
PK	15.8024G	55.01	74.00	-18.99	15.37	3	Horizontal	100	2.78	-	39.64			
AV	15.8004G	40.16	54.00	-13.84	15.38	3	Horizontal	100	2.78	-	24.78			

802.11ax HEW20_Nss1,(MCS0)_4TX

10/09/2019

5320MHz_TX



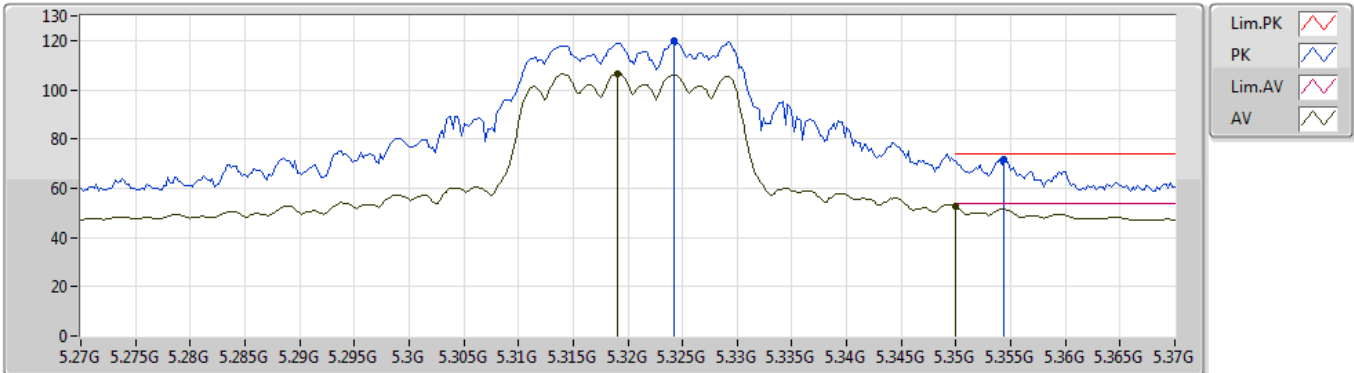
EUT Y_4TX
Setting 90
02-G-3-10
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	5.3186G	118.98	Inf	-Inf	8.23	3	Vertical	17	1.84	-	110.75
AV	5.3236G	106.08	Inf	-Inf	8.24	3	Vertical	17	1.84	-	97.84
PK	5.3538G	73.49	74.00	-0.51	8.28	3	Vertical	17	1.84	-	65.21
AV	5.3512G	53.18	54.00	-0.82	8.28	3	Vertical	17	1.84	-	44.90

802.11ax HEW20_Nss1,(MCS0)_4TX

10/09/2019

5320MHz_TX



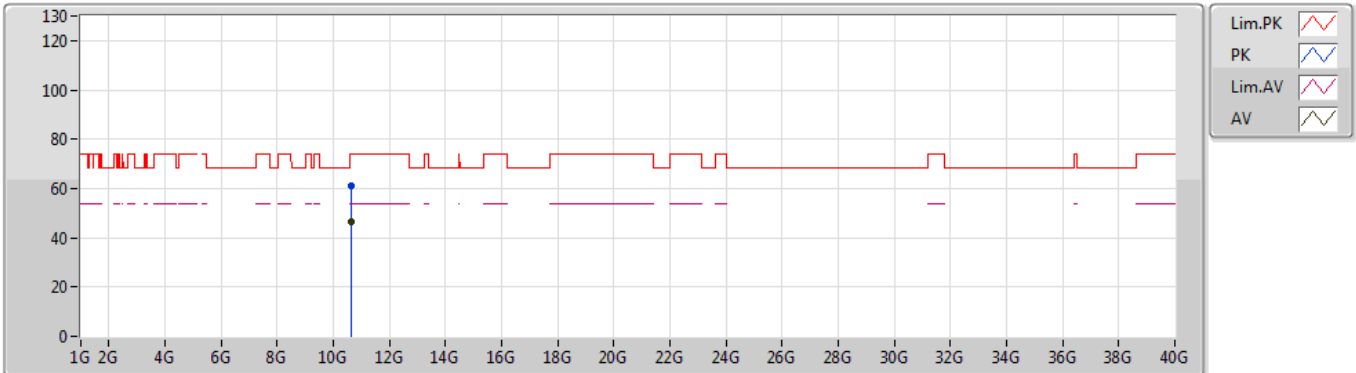
EUT Y_4TX
Setting 90
02-G-3-10
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	5.3242G	119.89	Inf	-Inf	8.24	3	Horizontal	228	1.60	-	111.65
AV	5.319G	106.52	Inf	-Inf	8.23	3	Horizontal	228	1.60	-	98.29
PK	5.3544G	71.90	74.00	-2.10	8.28	3	Horizontal	228	1.60	-	63.62
AV	5.35G	52.65	54.00	-1.35	8.28	3	Horizontal	228	1.60	-	44.37

802.11ax HEW20_Nss1,(MCS0)_4TX

10/09/2019

5320MHz_TX



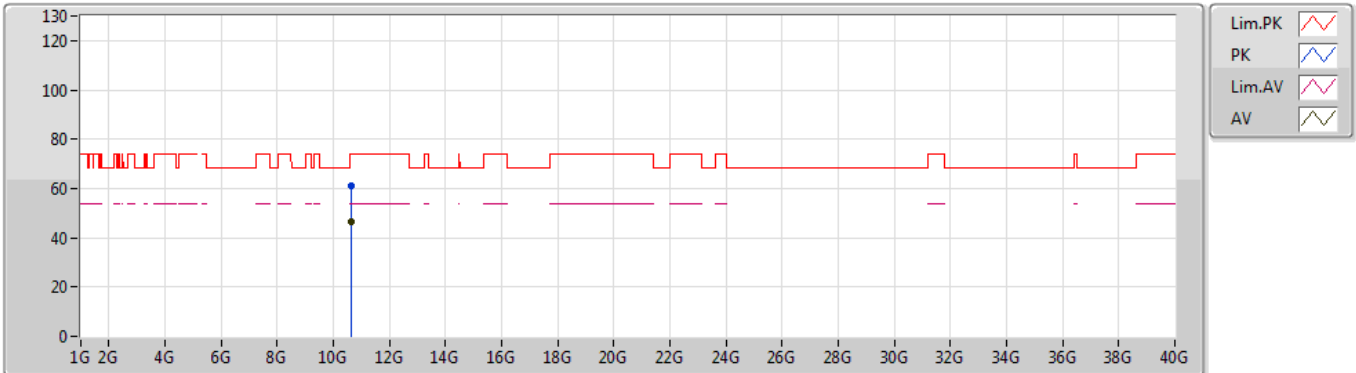
EUT Y_4TX
Setting 90
02-G-3
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	10.63896G	61.32	74.00	-12.68	14.49	3	Vertical	230	2.96	-	46.83			
AV	10.64016G	46.28	54.00	-7.72	14.49	3	Vertical	230	2.96	-	31.79			

802.11ax HEW20_Nss1,(MCS0)_4TX

10/09/2019

5320MHz_TX



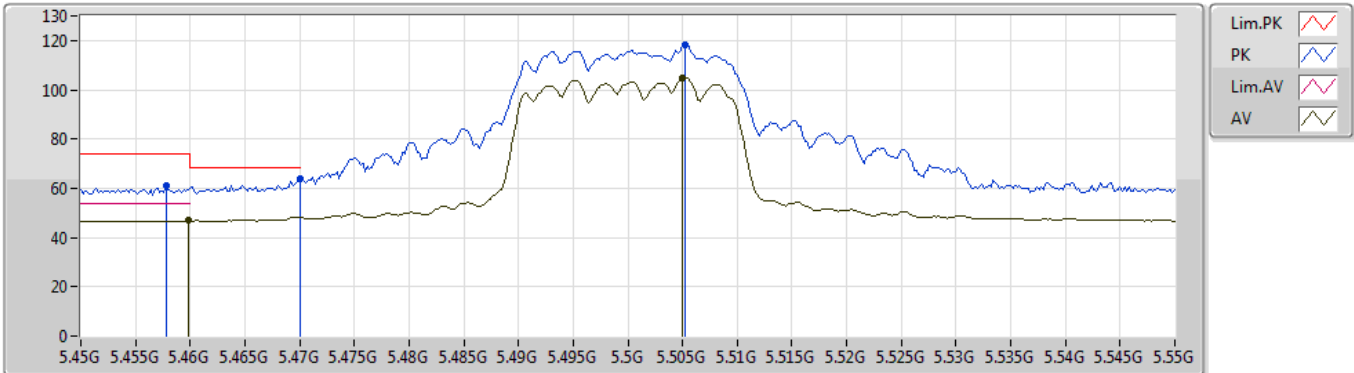
EUT Y_4TX
Setting 90
02-G-3
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	10.64G	61.00	74.00	-13.00	14.49	3	Horizontal	228	1.50	-	46.51			
AV	10.6401G	46.36	54.00	-7.64	14.49	3	Horizontal	228	1.50	-	31.87			

802.11ax HEW20_Nss1,(MCS0)_4TX

10/09/2019

5500MHz_TX



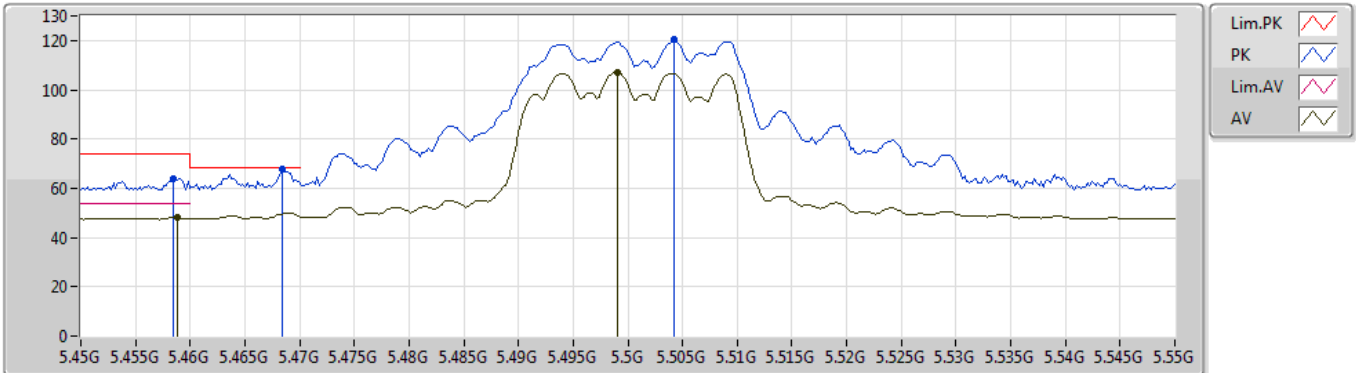
EUT Y_4TX
Setting 79
02-B-4-10
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	5.4578G	60.84	74.00	-13.16	8.45	3	Vertical	12	2.70	-	52.39			
AV	5.4598G	46.89	54.00	-7.11	8.45	3	Vertical	12	2.70	-	38.44			
PK	5.47G	63.94	68.20	-4.26	8.46	3	Vertical	12	2.70	-	55.48			
PK	5.5052G	118.40	Inf	-Inf	8.52	3	Vertical	12	2.70	-	109.88			
AV	5.505G	105.05	Inf	-Inf	8.52	3	Vertical	12	2.70	-	96.53			

802.11ax HEW20_Nss1,(MCS0)_4TX

10/09/2019

5500MHz_TX



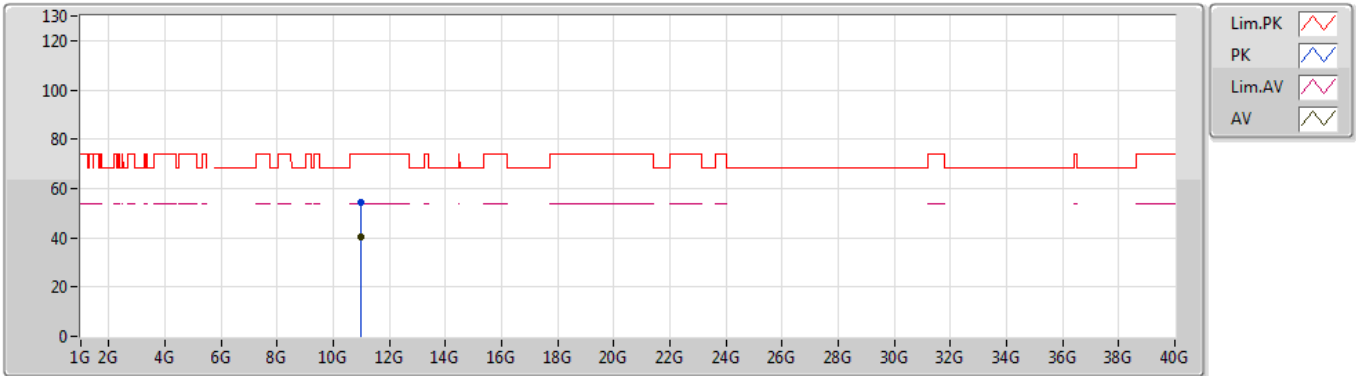
EUT Y_4TX
Setting 79
02-B-4-10
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	5.4584G	64.12	74.00	-9.88	8.45	3	Horizontal	267	1.83	-	55.67			
AV	5.4588G	47.98	54.00	-6.02	8.45	3	Horizontal	267	1.83	-	39.53			
PK	5.4684G	67.62	68.20	-0.58	8.46	3	Horizontal	267	1.83	-	59.16			
PK	5.5042G	120.34	Inf	-Inf	8.52	3	Horizontal	267	1.83	-	111.82			
AV	5.499G	106.98	Inf	-Inf	8.52	3	Horizontal	267	1.83	-	98.46			

802.11ax HEW20_Nss1,(MCS0)_4TX

10/09/2019

5500MHz_TX



EUT Y_4TX
Setting 79
02-B-4
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	10.9972G	54.41	74.00	-19.59	14.26	3	Vertical	201	1.19	-	40.15			
AV	10.9984G	40.48	54.00	-13.52	14.26	3	Vertical	201	1.19	-	26.22			