Testing Laboratory 3787

RADIO TEST REPORT

FCC ID	:	MSQ-RTAX6800
Equipment	:	AX6000 Dual Band Wi-Fi Router
Brand Name	:	ASUS
Model Name	:	RT-AX88U Pro
Applicant	:	ASUSTeK COMPUTER INC. 1F., No. 15, Lide Rd., Beitou, Taipei City 112, Taiwan
Manufacturer (1)	:	Compal Networking(KunShan) CO., LTD No.520,Nan Bang RD., Economic & Technical Development Zone, KunShan,JiangSu,China
Manufacturer (2)	:	Datamax Electronics (DongGuan) Co., Ltd. Niu Shan Foreign Economic Industrial Park, Dong Cheng District, Dong Guan City, Guang Dong, China
Manufacturer (3)	:	ARCADYAN TECHNOLOGY (VIETNAM) CO., LTD. Land plot No. D4-5-6, Thang Long Industrial Park (Vinh Phuc), Thien Ke Commune, Binh Xuyen District, Vinh Phuc Province, Vietnam
Manufacturer (4)	:	Lih Rong Electronic Enterprise Co.,Ltd. No. 486, Sec. 1, Wanshou Road, Guishan District, , Taoyuan City, Taiwan
Standard	:	47 CFR FCC Part 15.407

The product was received on Sep. 07, 2022, and testing was started from Sep. 19, 2022 and completed on Oct. 08, 2022. We, Sporton International Inc. Hsinchu Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International Inc. Hsinchu Laboratory, the test report shall not be reproduced except in full.

Approved by: Sam Chen

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Photographs of EUT v01

History of this test report

Report No.	Version	Description	Issued Date
FR290613AB	01	Initial issue of report	Nov. 22, 2022

Summary of Test Result

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

Declaration of Conformity:
1. The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers. It's means measurement values may risk exceeding the limit of regulation standards, if measurement uncertainty is include in test results. 2. The measurement uncertainty please refer to report "Measurement Uncertainty".
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: Sandy Chuang

1 General Description

1.1 Information

1.1.1 RF General Information

Frequency Range (MHz)	IEEE Std. 802.11	Ch. Frequency (MHz)	Channel Number
5150-5250	a, n (HT20), ac (VHT20), ax (HEW20)	5180-5240	36-48 [4]
5250-5350		5260-5320	52-64 [4]
5470-5725		5500-5720	100-144 [12]
5725-5850		5745-5825	149-165 [5]
5150-5250	n (HT40), ac (VHT40), ax (HEW40)	5190-5230	38-46 [2]
5250-5350		5270-5310	54-62 [2]
5470-5725		5510-5710	102-142 [6]
5725-5850		5755-5795	151-159 [2]
5150-5250	ac (VHT80), ax (HEW80)	5210	42 [1]
5250-5350		5290	58 [1]
5470-5725		5530-5690	106-138 [3]
5725-5850		5775	155 [1]
5150-5350	ac (VHT160), ax (HEW160)	5250	50 [1]
5470-5725		5570	114 [1]

Band	Mode	BWch (MHz)	Nant
5.15-5.25GHz	802.11a	20	4TX
5.15-5.25GHz	802.11n HT20	20	4TX
5.15-5.25GHz	802.11n HT20-BF	20	4TX
5.15-5.25GHz	802.11ac VHT20	20	4TX
5.15-5.25GHz	802.11ac VHT20-BF	20	4TX
5.15-5.25GHz	802.11ax HEW20	20	4TX
5.15-5.25GHz	802.11ax HEW20-BF	20	4TX
5.15-5.25GHz	802.11n HT40	40	4TX
5.15-5.25GHz	802.11n HT40-BF	40	4TX
5.15-5.25GHz	802.11ac VHT40	40	4TX
5.15-5.25GHz	802.11ac VHT40-BF	40	4TX
5.15-5.25GHz	802.11ax HEW40	40	4TX
5.15-5.25GHz	802.11ax HEW40-BF	40	4TX
5.15-5.25GHz	802.11ac VHT80	80	4TX
5.15-5.25GHz	802.11ac VHT80-BF	80	4TX

Band	Mode	BWch (MHz)	Nant
5.15-5.25GHz	802.11ax HEW80	80	4TX
5.15-5.25GHz	802.11ax HEW80-BF	80	4TX
5.15-5.35GHz	802.11ac VHT160	160	4TX
5.15-5.35GHz	802.11ac VHT160-BF	160	4TX
5.15-5.35GHz	802.11ax HEW160	160	4TX
5.15-5.35GHz	802.11ax HEW160-BF	160	4TX
5.25-5.35GHz	802.11a	20	4TX
5.25-5.35GHz	802.11n HT20	20	4TX
5.25-5.35GHz	802.11n HT20-BF	20	4TX
5.25-5.35GHz	802.11ac VHT20	20	4TX
5.25-5.35GHz	802.11ac VHT20-BF	20	4TX
5.25-5.35GHz	802.11ax HEW20	20	4TX
5.25-5.35GHz	802.11ax HEW20-BF	20	4TX
5.25-5.35GHz	802.11n HT40	40	4TX
5.25-5.35GHz	802.11n HT40-BF	40	4TX
5.25-5.35GHz	802.11ac VHT40	40	4TX
5.25-5.35GHz	802.11ac VHT40-BF	40	4TX
5.25-5.35GHz	802.11ax HEW40	40	4TX
5.25-5.35GHz	802.11ax HEW40-BF	40	4TX
5.25-5.35GHz	802.11ac VHT80	80	4TX
5.25-5.35GHz	802.11ac VHT80-BF	80	4TX
5.25-5.35GHz	802.11ax HEW80	80	4TX
5.25-5.35GHz	802.11ax HEW80-BF	80	4TX
5.47-5.725GHz	802.11a	20	4TX
5.47-5.725GHz	802.11n HT20	20	4TX
5.47-5.725GHz	802.11n HT20-BF	20	4TX
5.47-5.725GHz	802.11ac VHT20	20	4TX
5.47-5.725GHz	802.11ac VHT20-BF	20	4TX
5.47-5.725GHz	802.11ax HEW20	20	4TX
5.47-5.725GHz	802.11ax HEW20-BF	20	4TX
5.47-5.725GHz	802.11n HT40	40	4TX
5.47-5.725GHz	802.11n HT40-BF	40	4TX
5.47-5.725GHz	802.11ac VHT40	40	4TX
5.47-5.725GHz	802.11ac VHT40-BF	40	4TX
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

Band	Mode	BWch (MHz)	Nant
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	802.11ac VHT160	160	4TX
5.47-5.725GHz	802.11ac VHT160-BF	160	4TX
5.47-5.725GHz	802.11ax HEW160	160	4TX
5.47-5.725GHz	802.11ax HEW160-BF	160	4TX
5.725-5.85GHz	802.11a	20	4TX
5.725-5.85GHz	802.11n HT20	20	4TX
5.725-5.85GHz	802.11n HT20-BF	20	4TX
5.725-5.85GHz	802.11ac VHT20	20	4TX
5.725-5.85GHz	802.11ac VHT20-BF	20	4TX
5.725-5.85GHz	802.11ax HEW20	20	4TX
5.725-5.85GHz	802.11ax HEW20-BF	20	4TX
5.725-5.85GHz	802.11n HT40	40	4TX
5.725-5.85GHz	802.11n HT40-BF	40	4TX
5.725-5.85GHz	802.11ac VHT40	40	4TX
5.725-5.85GHz	802.11ac VHT40-BF	40	4TX
5.725-5.85GHz	802.11ax HEW40	40	4TX
5.725-5.85GHz	802.11ax HEW40-BF	40	4TX
5.725-5.85GHz	802.11ac VHT80	80	4TX
5.725-5.85GHz	802.11ac VHT80-BF	80	4TX
5.725-5.85GHz	802.11ax HEW80	80	4TX
5.725-5.85GHz	802.11ax HEW80-BF	80	4TX

Note:
- 11a, HT20 and HT40 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM modulation.
- VHT20, VHT40, VHT80 and VHT160 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.

1.1.2 Antenna Information

Ant.	Port		Brand Name	Model Name	Antenna Type	Connector	Gain (dBi)
	WLAN 2.4GHz	WLAN 5GHz UNII1~UNII3					
1	2	1	PSA	RFDPA171300SBLB820	Dipole	Reversed-SMA	Note 1
2	3	4	PSA	RFDPA171300SBLB820	Dipole	Reversed-SMA	
3	1	2	PSA	RFDPA171300SBLB820	Dipole	Reversed-SMA	
4	4	3	PSA	RFDPA171300SBLB820	Dipole	Reversed-SMA	

Note 1:
The directional gain is measured which follows the procedure of KDB 662911 D03.

Freq. Band (Hz)	WLAN 2.4GHz	WLAN 5GHz			
		UNII 1	UNII 2A	UNII2C	UNII3
Ant. 1 Max Gain (dBi)	2.01	2.66	2.74	3.53	3.93
Ant. 2 Max Gain (dBi)	1.25	1.8	1.59	2.37	2.6
Ant. 3 Max Gain (dBi)	1.61	2.05	1.47	2.32	2.49
Ant. 4 Max Gain (dBi)	1.81	2.7	1.47	3.17	3.83
DG [1SS] (dBi)	6.35	6.38	5.9	6.27	7.14
DG [2SS] (dBi)	3.35	3.38	2.9	3.53	4.14
DG [4SS] (dBi)	2.01	2.7	2.74	3.53	3.93

Note 2: The above information was declared by manufacturer.
Note 3:

<For WLAN 2.4GHz function>

For IEEE 802.11b/g/n/VHT/ax(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.

<For WLAN 5GHz function>

For IEEE 802.11a/n/ac/ax (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

<For Non-beamforming Mode>
4T1S:

Mode	DC	DCF(dB)	T(s)	VBW(Hz) ≥ 1/T
802.11a	0.948	0.23	2.065m	1k

<For Beamforming Mode>
4T1S:

Mode	DC	DCF(dB)	T(s)	VBW(Hz) ≥ 1/T
802.11ax HEW20-BF	0.971	0.13	2.926m	1k
802.11ax HEW40-BF	0.956	0.2	4.325m	300
802.11ax HEW80-BF	0.964	0.16	4.145m	300
802.11ax HEW160-BF	0.927	0.33	5.325m	300

4T2S:

Mode	DC	DCF(dB)	T(s)	VBW(Hz) ≥ 1/T
802.11ax HEW20-BF	0.947	0.24	4.368m	300
802.11ax HEW40-BF	0.964	0.16	5.053m	300
802.11ax HEW80-BF	0.96	0.18	5.175m	300
802.11ax HEW160-BF	0.966	0.15	5.415m	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
	The product has beamforming function for n/VHT/ax in 2.4GHz, n/ac/ax in 5GHz.			
Weather Band	☒	With 5600~5650MHz	☐	Without 5600~5650MHz
Function	☐	Outdoor P2M	☒	Indoor P2M
	☐	Fixed P2P	☐	Client
	☒	Point-to-multipoint	☐	Point-to-point
TPC Function	☒	With TPC	☐	Without TPC
Channel Puncturing Function	☐	Supported	☒	Unsupported
Test Software Version	Mtool V3.2.0.0			

Note: The above information was declared by manufacturer.

1.1.5 Table for Components Source Information

EUT	Source	Transceiver (2.5G WAN)	
		Brand	Model
1	Main	Broadcom	BCM54991E
2	Second	MAXLINEAR	GPY211

Note 1: From the above EUTs, EUT 1 was selected to test all items and EUT 2 was selected to test Radiated Emission below 1GHz.

Note 2: The above information was declared by manufacturer..

1.1.6 Table for EUT Supports Function

Function	Support Type
AP Router	Master
Bridge	Slave without radar detection
Repeater	Master
Mesh	Master

Note 1: The AP Router (Master) mode has been tested and recorded in this test report.
Note 2: The above information was declared by manufacturer.

1.2 Applicable Standards

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

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

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

- FCC KDB 662911 D03 v01
- FCC KDB 412172 D01 v01r01
- FCC KDB 414788 D01 v01r01

1.3 Testing Location Information

Testing Location Information	
Test Lab.：Sporton International Inc. Hsinchu Laboratory	
Hsinchu (TAF: 3787)	ADD: No.8, Ln. 724, Bo'ai St., Zhubei City, Hsinchu County 302010, Taiwan (R.O.C.) TEL: 886-3-656-9065 FAX: 886-3-656-9085 Test site Designation No. TW3787 with FCC. Conformity Assessment Body Identifier (CABID) TW3787 with ISED.

Test Condition	Test Site No.	Test Engineer	Test Environment (°C / %)	Test Date
RF Conducted	TH02-CB	Caster Chang	23.4~23.6 / 58~66	Sep. 22, 2022~Sep. 23, 2022
Radiated below 1GHz	03CH05-CB	Stim Sung	22.4~23.6 / 55~59	Sep. 19, 2022~Oct. 08, 2022
Radiated above 1GHz	03CH06-CB		25.1~26.8 / 61~66	
Radiated Co-location	03CH05-CB		22.4~23.6 / 55~59	
AC Conduction	CO01-CB	Ryan Huang	20~22 / 60~62	Sep. 20, 2022~Sep. 22, 2022

1.4 Measurement Uncertainty

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

Test Items	Uncertainty	Remark
Conducted Emission (150kHz ~ 30MHz)	3.4 dB	Confidence levels of 95%
Radiated Emission (9kHz ~ 30MHz)	3.4 dB	Confidence levels of 95%
Radiated Emission (30MHz ~ 1,000MHz)	5.6 dB	Confidence levels of 95%
Radiated Emission (1GHz ~ 18GHz)	5.2 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	4.7 dB	Confidence levels of 95%
Conducted Emission	3.2 dB	Confidence levels of 95%
Output Power Measurement	0.8 dB	Confidence levels of 95%
Power Density Measurement	3.2 dB	Confidence levels of 95%
Bandwidth Measurement	2.0 %	Confidence levels of 95%

2 Test Configuration of EUT

2.1 Test Channel Mode

<For Non-beamforming Mode>
4T1S:

Mode	Power Setting
802.11a_Nss1,(6Mbps)_4TX	-
5180MHz	93
5200MHz	92
5240MHz	92
5260MHz	67
5300MHz	67
5320MHz	69
5500MHz	67
5580MHz	66
5700MHz	65
5720MHz Straddle 5.47-5.725GHz	67
5720MHz Straddle 5.725-5.85GHz	67
5745MHz	93
5785MHz	92
5825MHz	92

<For Beamforming Mode>
4T1S:

Mode	Power Setting
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	-
5180MHz	91
5200MHz	88
5240MHz	89
5260MHz	65
5300MHz	65
5320MHz	68
5500MHz	65
5580MHz	64
5700MHz	64
5720MHz Straddle 5.47-5.725GHz	65
5720MHz Straddle 5.725-5.85GHz	65
5745MHz	87
5785MHz	85
5825MHz	85
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	-

Mode	Power Setting
5190MHz	89
5230MHz	88
5270MHz	65
5310MHz	67
5510MHz	66
5550MHz	64
5670MHz	64
5710MHz Straddle 5.47-5.725GHz	66
5710MHz Straddle 5.725-5.85GHz	66
5755MHz	87
5795MHz	85
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	-
5210MHz	83
5290MHz	68
5530MHz	67
5610MHz	63
5690MHz Straddle 5.47-5.725GHz	65
5690MHz Straddle 5.725-5.85GHz	65
5775MHz	88
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	-
5250MHz Straddle 5.15-5.25GHz	76
5250MHz Straddle 5.25-5.35GHz	76
5570MHz	64

4T2S:

Mode	Power Setting
802.11ax HEW20-BF_Nss2,(MCS0)_4TX	-
5180MHz	93
5200MHz	90
5240MHz	91
5260MHz	65
5300MHz	65
5320MHz	68
5500MHz	67
5580MHz	65
5700MHz	65
5720MHz Straddle 5.47-5.725GHz	66
5720MHz Straddle 5.725-5.85GHz	66
5745MHz	92
5785MHz	90

Mode	Power Setting
5825MHz	90
802.11ax HEW40-BF_Nss2,(MCS0)_4TX	-
5190MHz	91
5230MHz	90
5270MHz	65
5310MHz	67
5510MHz	67
5550MHz	65
5670MHz	65
5710MHz Straddle 5.47-5.725GHz	67
5710MHz Straddle 5.725-5.85GHz	67
5755MHz	91
5795MHz	90
802.11ax HEW80-BF_Nss2,(MCS0)_4TX	-
5210MHz	91
5290MHz	68
5530MHz	68
5610MHz	65
5690MHz Straddle 5.47-5.725GHz	66
5690MHz Straddle 5.725-5.85GHz	66
5775MHz	93
802.11ax HEW160-BF_Nss2,(MCS0)_4TX	-
5250MHz Straddle 5.15-5.25GHz	72
5250MHz Straddle 5.25-5.35GHz	72
5570MHz	65

Note:
- HEW20 / HEW40 / HEW80 / HEW160 covers VHT20 / VHT40 / VHT80 / VHT160 due to similar modulation. The power setting for VHT20 / VHT40 / VHT80 / VHT160 is the same or lower than HEW20 / HEW40 / HEW80 / HEW160.

2.2 The Worst Case Measurement Configuration

The Worst Case Mode for Following Conformance Tests	
Tests Item	AC power-line conducted emissions
Condition	AC power-line conducted measurement for line and neutral Test Voltage: 120Vac / 60Hz
Operating Mode	Normal Link
1	EUT 1 + Adapter 1
2	EUT 1 + Adapter 3
For operating mode 2 is the worst case and it was record in this test report.	

The Worst Case Mode for Following Conformance Tests	
Tests Item	DTS Bandwidth Maximum Conducted Output Power Power Spectral Density Emissions in Non-restricted Frequency Bands
Test Condition	Conducted measurement at transmit chains
Operating Mode	
1	EUT 1

The Worst Case Mode for Following Conformance Tests	
Tests Item	Unwanted Emissions
Test Condition	Radiated measurement If EUT consist of multiple antenna assembly (multiple antenna are used in EUT regardless of spatial multiplexing MIMO configuration), the radiated test should be performed with highest antenna gain of each antenna type.
Operating Mode < 1GHz	CTX
	The EUT was performed at X axis, Y axis and Z axis position for Radiated measurement above 1GHz, and the worst case was found at Z axis position.
1	EUT 1 in Z axis + Adapter 1 / WLAN 2.4 GHz
2	EUT 1 in Z axis + Adapter 3 / WLAN 2.4 GHz
Mode 2 has been evaluated to be the worst case among Mode 1~2, thus measurement for Mode 3 will follow this same test mode.	
3	EUT 1 in Z axis + Adapter 3 / WLAN 5 GHz
Mode 2 has been evaluated to be the worst case among Mode 1~3, thus measurement for Mode 4 will follow this same test mode.	
4	EUT 2 in Z axis + Adapter 3 / WLAN 2.4 GHz
For operating mode 2 is the worst case and it was record in this test report.	
Operating Mode > 1GHz	CTX
	The EUT was performed at X axis, Y axis and Z axis position, and the worst case was found at Z axis. So the measurement will follow this same test configuration.
1	EUT 1 in Z axis

The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis - Radiated Emission Co-location
Test Condition	Radiated measurement
Operating Mode	Normal Link
	The EUT was performed at X axis, Y axis and Z axis position for Radiated measurement above 1GHz, and the worst case was found at Z axis. So the measurement will follow this same test configuration.
1	EUT 1 in Z axis / WLAN 2.4GHz + WLAN 5GHz
Refer to Appendix G for Radiated Emission Co-location.	

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.: FA290613 for Co-location RF Exposure Evaluation.	

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 XP 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 DOS.
3. Executed "Lantest.exe" to link with the remote workstation to transmit and receive packet by Client and transmit duty cycle no less than 98%.

For Normal Link:

During the test, the EUT operation to normal function.

2.4 Accessories

Accessories				
Equipment Name	**Brand Name**	**Model Name**	**Rating**	**Power Line**
Adapter 1	AcBel	ADH011	Input: 100-240V~1.4A, 50-60Hz Output: 19.5V, 2.31A, 45.0W MAX	With the DC Power cable: Non-shielded, 1.5m
Adapter 2	AcBel	ADH011	Input: 100-240V~1.4A, 50-60Hz Output: 19.5V, 2.31A, 45.0W MAX	With the DC Power cable: Non-shielded, 1.5m
Adapter 3	DELTA	ADP-45FE F	Input: 100-240V~1.2A, 50-60Hz Output: 19.0V, 2.37A, 45.0W	With the DC Power cable: Non-shielded, 1.5m
Others				
RJ-45 cable*1: Non-Shielded, 1.5m				
Power cable*1: Non-Shielded, 0.8m				

Note: The Adapter 1 and 2 are identical except for the product number, thus only Adapter 1 were selected to test and record in the report.

2.5 Support Equipment

For AC Conduction:

Support Equipment				
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**
A	1G LAN1 NB	DELL	E6430	N/A
B	2.4G NB	DELL	E6430	N/A
C	5G NB	DELL	E6430	N/A
D	2.5G WAN NB	DELL	E6430	N/A
E	HDD3.0	WD	WDBACY5000AWT	N/A
F	1G LAN4 NB	DELL	E6430	N/A
G	2.5G LAN NB	DELL	E6430	N/A

For Radiated below 1GHz:

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

For Radiated above 1GHz:
<For non-beamforming mode>

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

<For beamforming mode>

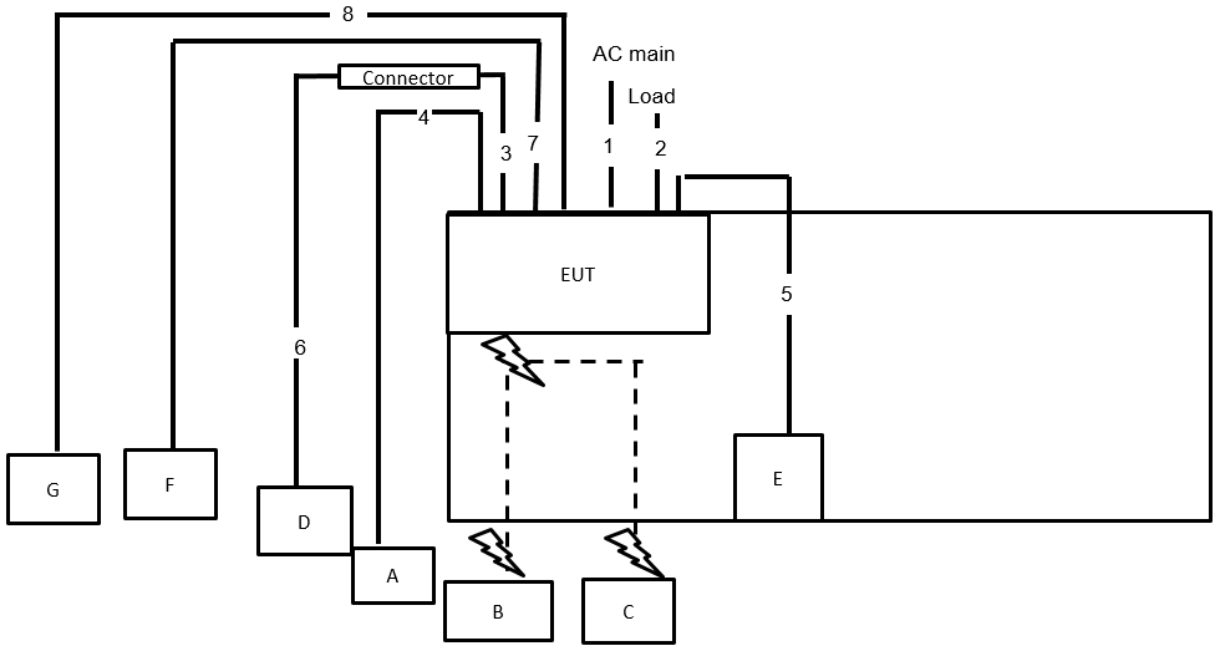
Support Equipment				
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**
A	NB	DELL	E4300	N/A
B	NB	DELL	E4300	N/A
C	Client	ASUS	ET12	MSQ-RTAXE4P00

For RF Conducted:

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

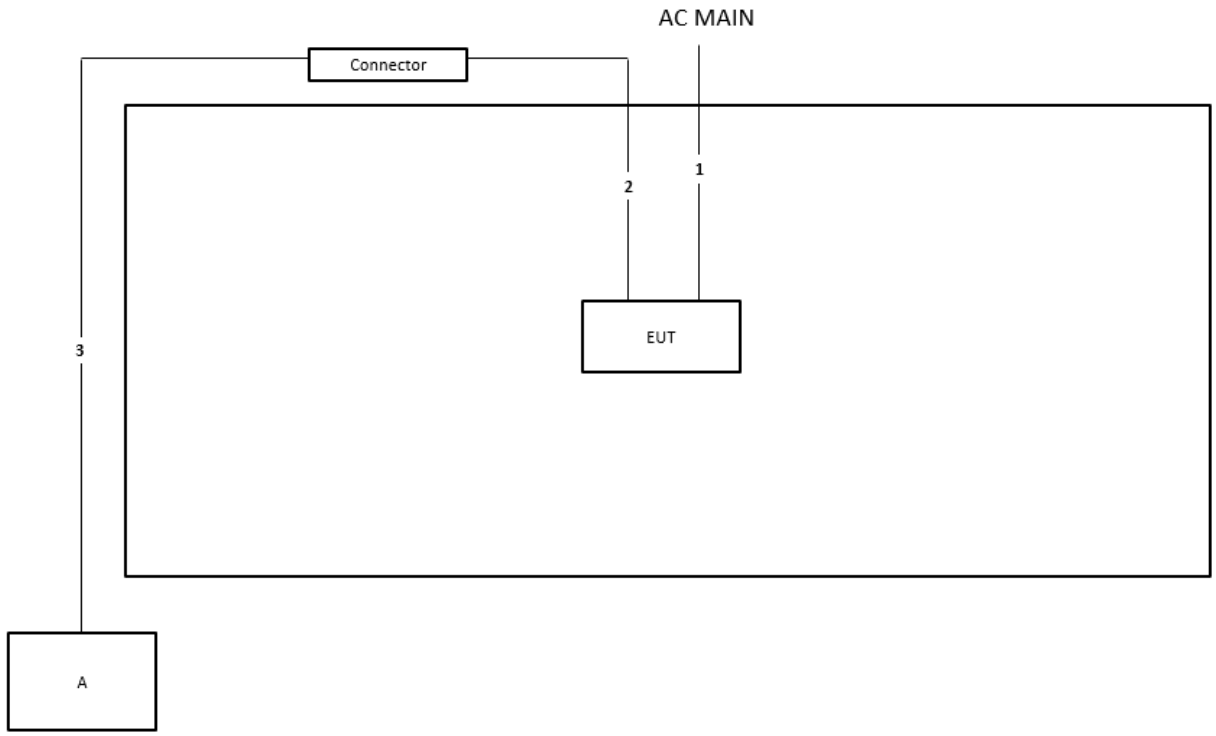
2.6 Test Setup Diagram

Test Setup Diagram – AC Line Conducted Emission Test



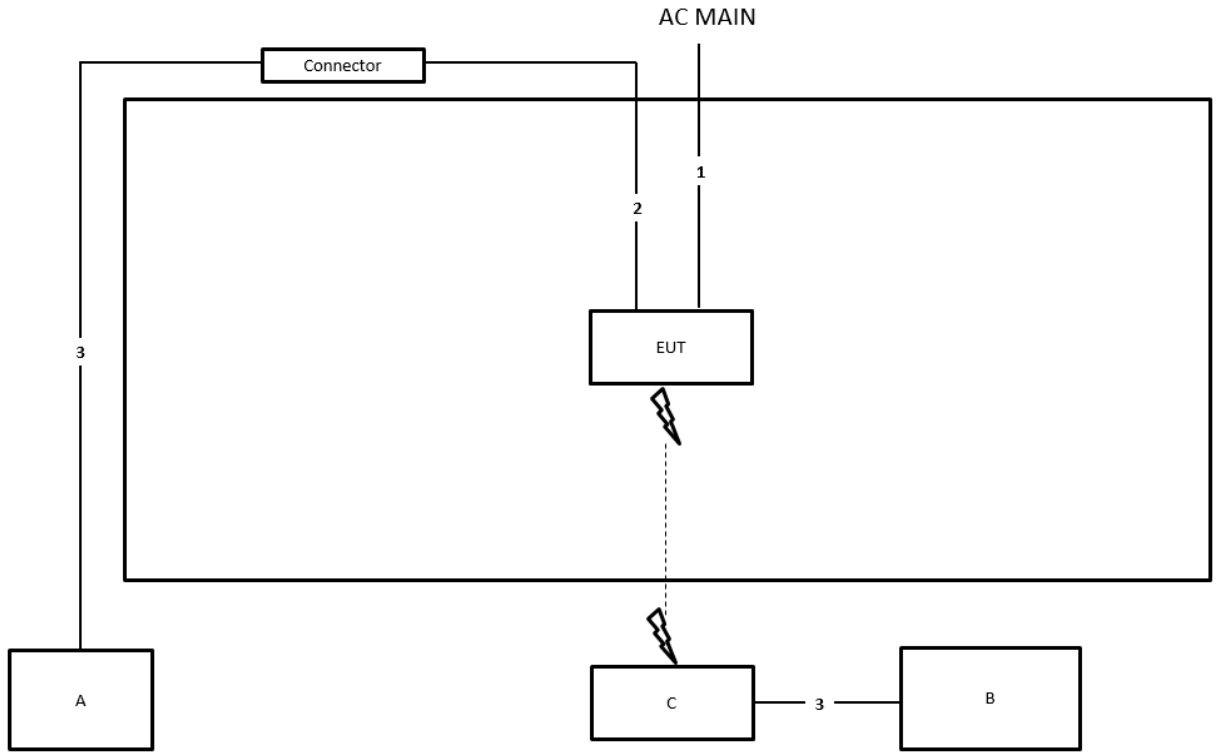
Item	Connection	Shielded	Length
1	Power cable	No	2.3m
2	RJ-45 cable*2	No	1.5m
3	RJ-45 cable	No	1.5m
4	RJ-45 cable	No	10m
5	USB cable	Yes	1.5m
6	RJ-45 cable	No	10m
7	RJ-45 cable	No	10m
8	RJ-45 cable	No	10m

Test Setup Diagram - Radiated Test
<For Below 1GHz & Non-beamforming Mode above 1GHz>



Item	Connection	Shielded	Length
1	Power cable	No	2.3m
2	RJ-45 cable	No	1.5m
3	RJ-45 cable	No	10m

Test Setup Diagram - Radiated Test
<For Beamforming Mode above 1GHz >



Item	Connection	Shielded	Length
1	Power cable	No	2.3m
2	RJ-45 cable	No	1.5m
3	RJ-45 cable*2	No	10m

3 Transmitter Test Result

3.1 AC Power-line Conducted Emissions

3.1.1 AC Power-line Conducted Emissions Limit

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

3.1.2 Measuring Instruments

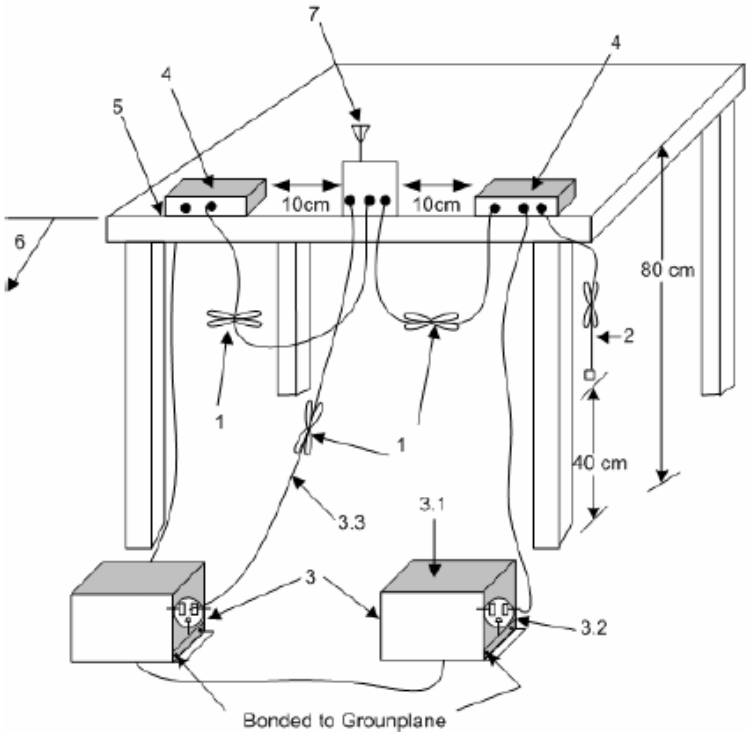
Refer a test equipment and calibration data table in this test report.

3.1.3 Test Procedures

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

3.1.4 Test Setup

AC Power-line Conducted Emissions



1—Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 cm to 40 cm long.
2—The I/O cables that are not connected to an accessory shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
3—EUT connected to one LISN. Unused LISN measuring port connectors shall be terminated in 50 Ω loads. LISN may be placed on top of, or immediately beneath, reference ground plane.
3.1—All other equipment powered from additional LISN(s).
3.2—A multiple-outlet strip may be used for multiple power cords of non-EUT equipment.
3.3—LISN at least 80 cm from nearest part of EUT chassis.
4—Non-EUT components of EUT system being tested.
5—Rear of EUT, including peripherals, shall all be aligned and flush with edge of tabletop.
6—Edge of tabletop shall be 40 cm removed from a vertical conducting plane that is bonded to the ground plane.
7—Antenna can be integral or detachable. If detachable, then the antenna shall be attached for this test.

3.1.5 Measurement Results Calculation

The measured Level is calculated using:

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

b. Margin = -Limit + Level

3.1.6 Test Result of AC Power-line Conducted Emissions

Refer as Appendix A

3.2 Emission Bandwidth

3.2.1 Emission Bandwidth Limit

Emission Bandwidth Limit	
UNII Devices	
☒	For the 5.15-5.25 GHz band, N/A
☒	For the 5.25-5.35 GHz band, 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, 26 dB emission bandwidth ,N/A. 6 dB emission bandwidth ≥ 500kHz.
☐	For the 5.85-5.895 GHz band, 26 dB emission bandwidth ,N/A. 6 dB emission bandwidth ≥ 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 ≥ 500kHz.

3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

Test Method		
▪	For the emission bandwidth shall be measured using one of the options below:	
	☒	Refer as FCC KDB 789033 D02, 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.

3.2.4 Test Setup

Emission Bandwidth
Spectrum Analyzer — EUT

3.2.5 Test Result of Emission Bandwidth

Refer as Appendix B

3.3 Maximum Output Power

3.3.1 Limit

Maximum 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.
Maximum EIRP Limit	
☐	For the 5.85-5.895 GHz band:
	▪ Indoor AP & subordinate device < 36 dBm
	▪ Client device < 30 dBm
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.	

3.3.2 Measuring Instruments

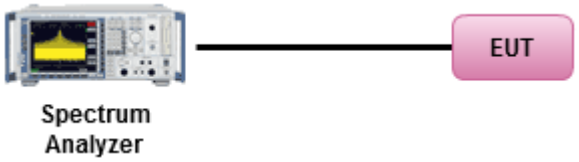
Refer a test equipment and calibration data table in this test report.

3.3.3 Test Procedures

Test Method	
	Average over on/off periods with duty factor
	☒ Refer as FCC KDB 789033 D02, clause E Method SA-2 (spectral trace averaging).
	☐ Refer as FCC KDB 789033 D02, 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 D02, 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: $P_{total} = P_1 + P_2 + \ldots + P_n$ (calculated in linear unit [mW] and transfer to log unit [dBm]) $EIRP_{total} = P_{total} + DG$
☐	For radiated measurement.
	▪ Refer as FCC KDB 789033 D02 clause II A.1.F ”Antenna-port Conducted versus Radiated Testing”
	▪ Refer as ANSI C63.10, clause 6.6 for radiated emissions above 1GHz.
	▪ Refer as FCC KDB 412172 D01 clause 2.2 for EIRP calculation.

3.3.4 Test Setup

For straddle channel mode:

Conducted Measurement (Spectrum Analyzer)


For other mode:

Conducted Measurement (Power Meter)

3.3.5 Test Result of Maximum Output Power

Refer as Appendix C

3.4 Power Spectral Density

3.4.1 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.
EIRP Power Spectral Density Limit	
☐	For the 5.85-5.895 GHz band:
	▪ Indoor AP & subordinate device < 20dBm/MHz
	▪ Client device < 14dBm/MHz
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° ≤ θ < 8° ; -13 − 0.716 (θ-8) dBW/MHz for 8° ≤ θ < 40° -35.9 − 1.22 (θ-40) dBW/MHz for 40° ≤ θ ≤ 45° ; -42 dBW/MHz for θ > 45°
☐	For the 5.47-5.6 GHz band and 5.65-5.725 GHz band, the peak power spectral density (PPSD) ≤ 11 dBm/MHz.
☐	For the 5.725-5.85 GHz band:
	▪ Point-to-multipoint systems (P2M): the peak power spectral density (PPSD) ≤ 30 dBm/500kHz. If G_{TX} > 6 dBi, then PPSD= 30 – (G_{TX} – 6).
	▪ Point-to-point systems (P2P): the peak power spectral density (PPSD) ≤ 30 dBm/500kHz.
PPSD = peak power spectral density that he same method as used to determine the conducted output	

power shall be used to determine the power spectral density. And power spectral density in dBm/MHz
G_{TX} = the maximum transmitting antenna directional gain in dBi.

3.4.2 Measuring Instruments

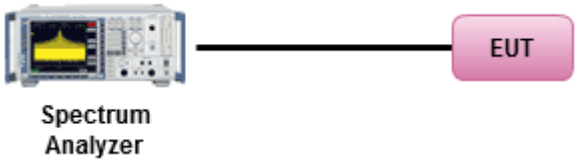
Refer a test equipment and calibration data table in this test report.

3.4.3 Test Procedures

Test Method		
▪ Peak power spectral density procedures that the same method as used to determine the conducted output power shall be used to determine the peak power spectral density and use the peak search function on the spectrum analyzer to find the peak of the spectrum. For the peak power spectral density shall be measured using below options:		
	☒	Refer as FCC KDB 789033 D02, F)5) power spectral density can be measured using resolution bandwidths < 1 MHz provided that the results are integrated over 1 MHz bandwidth
	[duty cycle ≥ 98% or external video / power trigger]	
	☒	Refer as FCC KDB 789033 D02, clause E Method SA-1 (spectral trace averaging).
	☐	Refer as FCC KDB 789033 D02, 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 D02, clause E Method SA-2 (spectral trace averaging).
	☐	Refer as FCC KDB 789033 D02, 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: $PPSD_{total} = PPSD_1 + PPSD_2 + \ldots + PPSD_n$ (calculated in linear unit [mW] and transfer to log unit [dBm]) $EIRP_{total} = PPSD_{total} + DG$
☐	For radiated measurement.	
	▪	Refer as FCC KDB 789033 D02 clause II A.1.F ”Antenna-port Conducted versus Radiated Testing”
	▪	Refer as ANSI C63.10, clause 6.6 for radiated emissions above 1GHz.

Test Method	
	▪ Refer as FCC KDB 412172 D01 clause 2.2 for EIRP calculation.

3.4.4 Test Setup

Conducted Measurement


3.4.5 Test Result of Power Spectral Density

Refer as Appendix D

3.5 Unwanted Emissions

3.5.1 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.
☐ 5.85 - 5.895 GHz	(i) For an indoor access point or subordinate device, all emissions at or above 5.895 GHz shall not exceed an e.i.r.p. of 15 dBm/MHz and shall decrease linearly to an e.i.r.p. of - 7 dBm/MHz at or above 5.925 GHz. (ii) For a client device, all emissions at or above 5.895 GHz shall not exceed an

	e.i.r.p. of -5 dBm/MHz and shall decrease linearly to an e.i.r.p. of -27 dBm/MHz at or above 5.925 GHz. (iii) For a client device or indoor access point or subordinate device, all emissions below 5.725 GHz shall not exceed an e.i.r.p. of -27 dBm/MHz at 5.65 GHz increasing linearly to 10 dBm/ MHz at 5.7 GHz, and from 5.7 GHz increasing linearly to a level of 15.6 dBm/MHz at 5.72 GHz, and from 5.72 GHz increasing linearly to a level of 27 dBm/MHz at 5.725 GHz.
Note 1: Measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements).	

3.5.2 Measuring Instruments

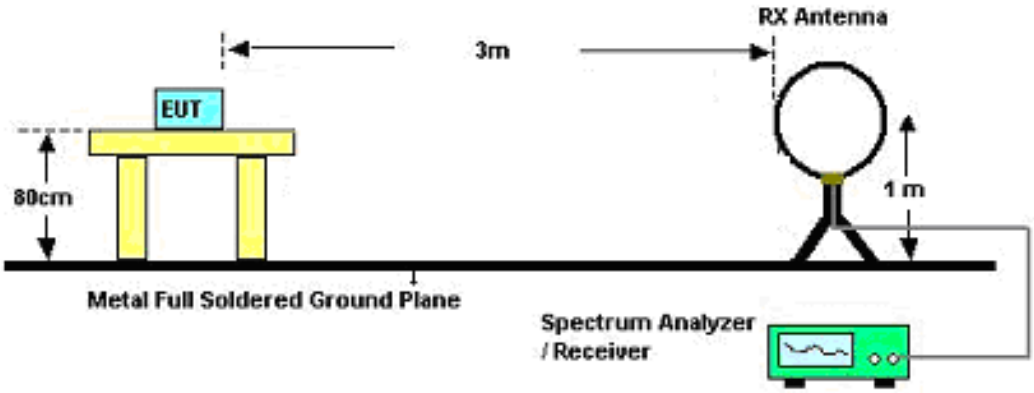
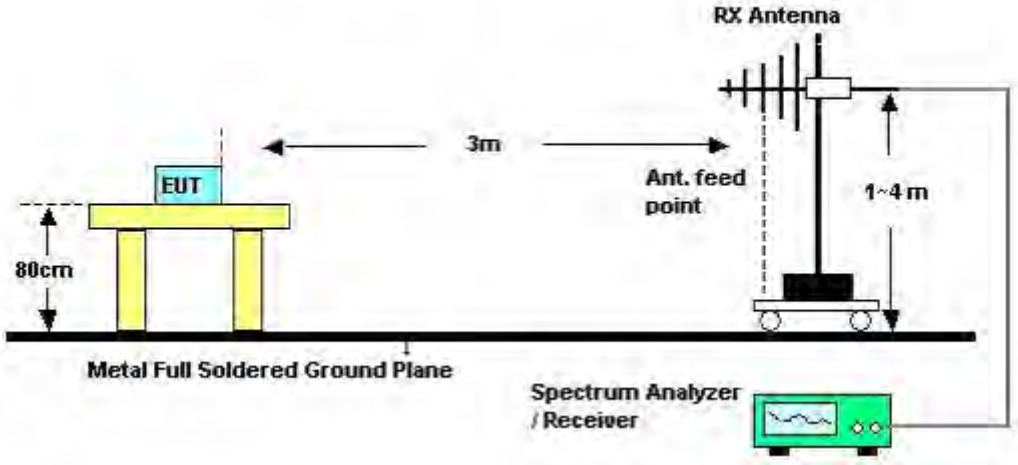
Refer a test equipment and calibration data table in this test report.

3.5.3 Test Procedures

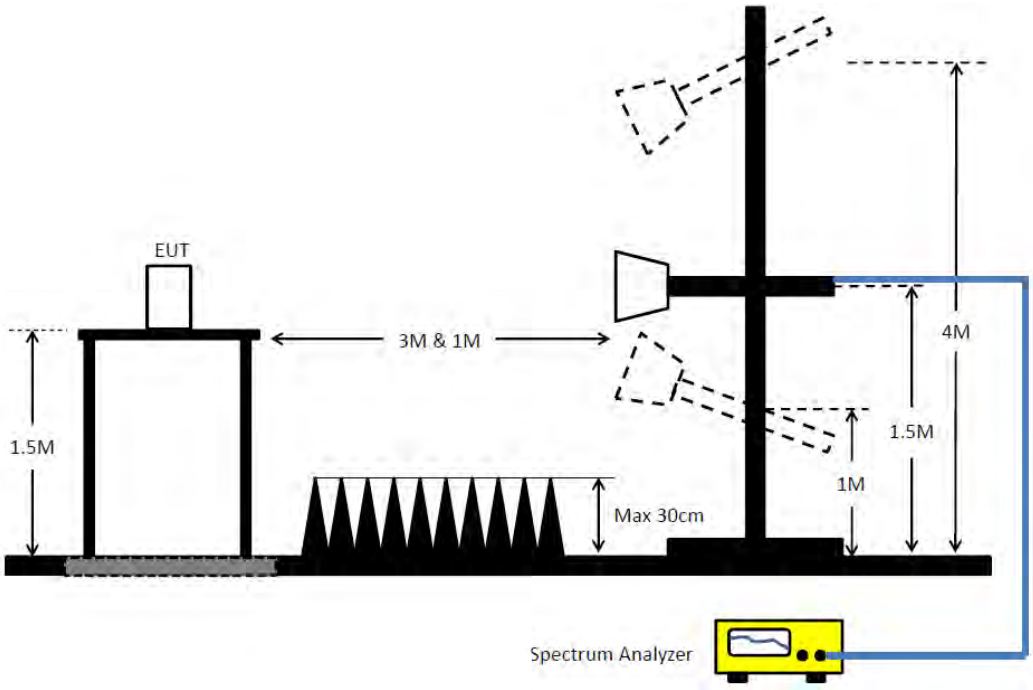
Test Method			
▪ Measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. Measurements shall not be performed at a distance greater than 30 m for frequencies above 30 MHz, unless it can be further demonstrated that measurements at a distance of 30 m or less are impractical. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements).			
▪ The average emission levels shall be measured in [duty cycle ≥ 98 or duty factor].			
▪ For the transmitter unwanted emissions shall be measured using following options below:			
	▪ Refer as FCC KDB 789033 D02, clause G)2) for unwanted emissions into non-restricted bands.		
	▪ Refer as FCC KDB 789033 D02, clause G)1) for unwanted emissions into restricted bands.		
		☐ Refer as FCC KDB 789033 D02, G)6) Method AD (Trace Averaging).	
		☒ Refer as FCC KDB 789033 D02, G)6) Method VB (Reduced VBW).	
		☐ Refer as ANSI C63.10, clause 11.12.2.5.3 (Reduced VBW). VBW ≥ 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 D02, 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.			

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

3.5.4 Test Setup

Transmitter Radiated Unwanted Emissions
9kHz ~30MHz

30MHz~1GHz


Above 1GHz



3.5.5 Measurement Results Calculation

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

3.5.6 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 10th harmonic or 40 GHz, whichever is appropriate.

3.5.7 Test Result of Transmitter Unwanted Emissions

Refer as Appendix E

4 Test Equipment and Calibration Data

Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
EMI Receiver	Agilent	N9038A	My52260123	9kHz ~ 8.4GHz	Feb. 22, 2022	Feb. 21, 2023	Conduction (CO01-CB)
LISN	F.C.C.	FCC-LISN-50-16-2	04083	150kHz ~ 100MHz	Feb. 09, 2022	Feb. 08, 2023	Conduction (CO01-CB)
LISN	Schwarzbeck	NSLK 8127	8127647	9kHz ~ 30MHz	Apr. 12, 2022	Apr. 11, 2023	Conduction (CO01-CB)
Pulse Limiter	Rohde&Schwarz	ESH3-Z2	100430	9kHz ~ 30MHz	Feb. 10, 2022	Feb. 09, 2023	Conduction (CO01-CB)
COND Cable	Woken	Cable	Low cable-CO01	9kHz ~ 30MHz	May 18, 2022	May 17, 2023	Conduction (CO01-CB)
Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Conduction (CO01-CB)
Loop Antenna	Teseq	HLA 6120	24155	9kHz - 30 MHz	May 14, 2022	May 13, 2023	Radiation (03CH05-CB)
3m Semi Anechoic Chamber NSA	TDK	SAC-3M	03CH05-CB	30 MHz ~ 1 GHz	Aug. 03, 2022	Aug. 02, 2023	Radiation (03CH05-CB)
3m Semi Anechoic Chamber VSWR	TDK	SAC-3M	03CH05-CB	1GHz ~18GHz 3m	Nov. 07, 2021	Nov. 06, 2022	Radiation (03CH05-CB)
Bilog Antenna with 6dB Attenuator	TESEQ & EMCI	CBL 6112D & N-6-06	35236 & AT-N0610	30MHz ~ 2GHz	Mar. 25, 2022	Mar. 24, 2023	Radiation (03CH05-CB)
Horn Antenna	SCHWARZBECK	BBHA9120D	BBHA 9120 D-1291	1GHz~18GHz	Jun. 23, 2022	Jun. 22, 2023	Radiation (03CH05-CB)
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170507	15GHz ~ 40GHz	Jul. 05, 2022	Jul. 04, 2023	Radiation (03CH05-CB)
Pre-Amplifier	EMCI	EMC330N	980331	20MHz ~ 3GHz	Apr. 26, 2022	Apr. 25, 2023	Radiation (03CH05-CB)
Pre-Amplifier	EMCI	EMC12630SE	980287	1GHz – 26.5GHz	Jul. 01, 2022	Jun. 30, 2023	Radiation (03CH05-CB)
Pre-Amplifier	MITEQ	TTA1840-35-HG	1864479	18GHz ~ 40GHz	Jul. 20, 2022	Jul. 19, 2023	Radiation (03CH05-CB)
Spectrum Analyzer	R&S	FSP40	100304	9kHz ~ 40GHz	Mar. 14, 2022	Mar. 13, 2023	Radiation (03CH05-CB)
EMI Test Receiver	R&S	ESCS	826547/017	9kHz ~ 2.75GHz	Jun. 17, 2022	Jun. 16, 2023	Radiation (03CH05-CB)
RF Cable-low	Woken	RG402	Low Cable-04+23	30MHz~1GHz	Oct. 13, 2021	Oct. 12, 2022	Radiation (03CH05-CB)
RF Cable-high	Woken	RG402	High Cable-28	1GHz~18GHz	Oct. 13, 2021	Oct. 12, 2022	Radiation (03CH05-CB)
RF Cable-high	Woken	RG402	High Cable-04+28	1GHz~18GHz	Oct. 13, 2021	Oct. 12, 2022	Radiation (03CH05-CB)

Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
High Cable	Woken	WCA0929M	40G#5+7	1GHz ~ 40 GHz	Dec. 14, 2021	Dec. 13, 2022	Radiation (03CH05-CB)
High Cable	Woken	WCA0929M	40G#5	1GHz ~ 40 GHz	Dec. 08, 2021	Dec. 07, 2022	Radiation (03CH05-CB)
High Cable	Woken	WCA0929M	40G#7	1GHz ~ 40 GHz	Dec. 14, 2021	Dec. 13, 2022	Radiation (03CH05-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH05-CB)
3m Semi Anechoic Chamber VSWR	TDK	SAC-3M	03CH06-CB	1GHz ~18GHz 3m	Oct. 01, 2021	Sep. 30, 2022	Radiation (03CH06-CB)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1370	1GHz~18GHz	Jun. 23, 2022	Jun. 22, 2023	Radiation (03CH06-CB)
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170507	15GHz ~ 40GHz	Jul. 05, 2022	Jul. 04, 2023	Radiation (03CH06-CB)
Pre-Amplifier	Agilent	83017A	MY53270064	0.5GHz ~ 26.5GHz	Aug 02, 2022	Aug 01, 2023	Radiation (03CH06-CB)
Pre-Amplifier	MITEQ	TTA1840-35-HG	1864479	18GHz ~ 40GHz	Jul. 20, 2022	Jul. 19, 2023	Radiation (03CH06-CB)
Spectrum analyzer	R&S	FSP40	100080	9kHz~40GHz	Dec. 24, 2021	Dec. 23, 2022	Radiation (03CH06-CB)
RF Cable-high	Woken	RG402	High Cable-67	1GHz~18GHz	Feb. 24, 2022	Feb. 23, 2023	Radiation (03CH06-CB)
RF Cable-high	Woken	RG402	High Cable-05+67	1GHz~18GHz	Feb. 24, 2022	Feb. 23, 2023	Radiation (03CH06-CB)
High Cable	Woken	WCA0929M	40G#5+7	1GHz ~ 40 GHz	Dec. 14, 2021	Dec. 13, 2022	Radiation (03CH06-CB)
High Cable	Woken	WCA0929M	40G#5	1GHz ~ 40 GHz	Dec. 08, 2021	Dec. 07, 2022	Radiation (03CH06-CB)
High Cable	Woken	WCA0929M	40G#7	1GHz ~ 40 GHz	Dec. 14, 2021	Dec. 13, 2022	Radiation (03CH06-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH06-CB)
Spectrum analyzer	R&S	FSV40	101027	9kHz~40GHz	Aug. 15, 2022	Aug. 14, 2023	Conducted (TH02-CB)
Power Sensor	Anritsu	MA2411B	1126203	300MHz~40GHz	Oct. 25, 2021	Oct. 24, 2022	Conducted (TH02-CB)
Power Meter	Anritsu	ML2495A	1210004	300MHz~40GHz	Oct. 25, 2021	Oct. 24, 2022	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	High Cable-01	1 GHz – 18 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	High Cable-02	1 GHz – 18 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (TH02-CB)

Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
RF Cable-high	Woken	RG402	High Cable-03	1 GHz – 18 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	High Cable-04	1 GHz – 18 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	High Cable-05	1 GHz – 18 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (TH02-CB)
Switch	SPTCB	SP-SWI	SWI-02	1 GHz –26.5 GHz	Dec. 13, 2021	Dec. 12, 2022	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	SWI-02-P1	1 GHz –26.5 GHz	Dec. 13, 2021	Dec. 12, 2022	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	SWI-02-P2	1 GHz –26.5 GHz	Dec. 13, 2021	Dec. 12, 2022	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	SWI-02-P3	1 GHz –26.5 GHz	Dec. 13, 2021	Dec. 12, 2022	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	SWI-02-P4	1 GHz –26.5 GHz	Dec. 13, 2021	Dec. 12, 2022	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	SWI-02-P5	1 GHz –26.5 GHz	Dec. 13, 2021	Dec. 12, 2022	Conducted (TH02-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Conducted (TH02-CB)

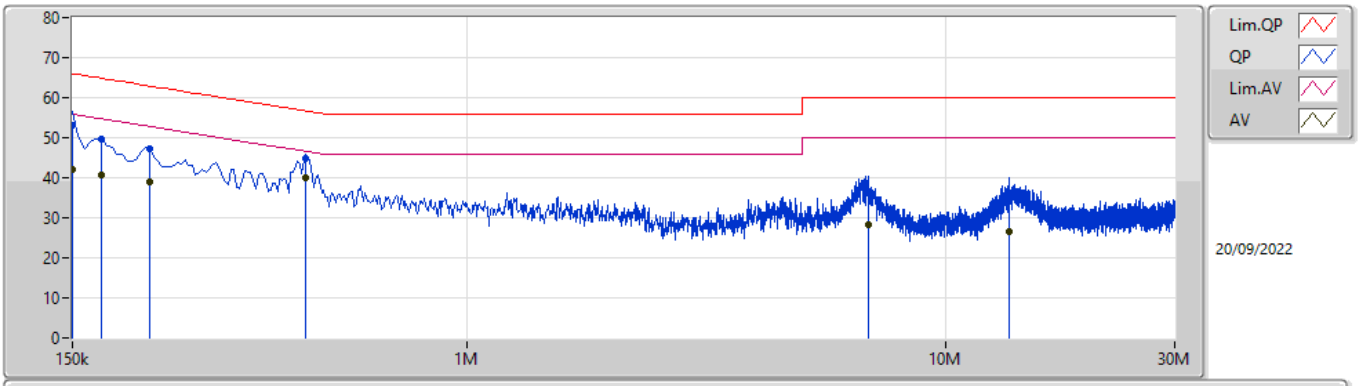
Note: Calibration Interval of instruments listed above is one year.

NCR means Non-Calibration required.

Summary

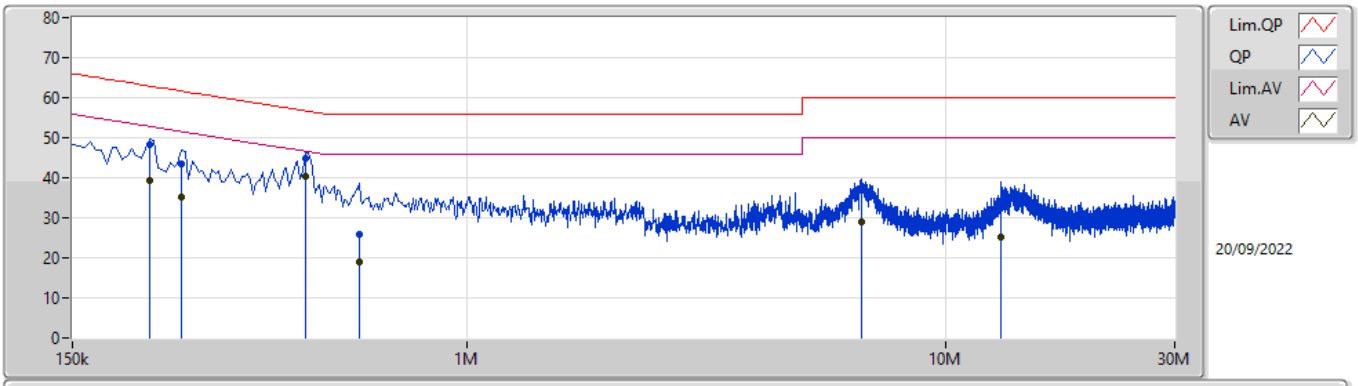
Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 2	Pass	AV	460.5k	40.24	46.69	-6.45	Neutral

Mode 2



Type	Freq	Level	Limit	Margin	Factor	Condition	Comment	Raw	LISN	CL	AT			
	(Hz)	(dBuV)	(dBuV)	(dB)	(dB)			(dBuV)	(dB)	(dB)	(dB)			
QP	150k	53.13	66.00	-12.87	9.99	Line	-	43.14	0.06	0.04	9.89			
AV	150k	42.11	56.00	-13.89	9.99	Line	-	32.12	0.06	0.04	9.89			
QP	172.5k	49.67	64.83	-15.16	9.99	Line	-	39.68	0.06	0.04	9.89			
AV	172.5k	40.77	54.83	-14.06	9.99	Line	-	30.78	0.06	0.04	9.89			
QP	217.5k	47.12	62.92	-15.80	9.99	Line	-	37.13	0.06	0.04	9.89			
AV	217.5k	38.97	52.92	-13.95	9.99	Line	-	28.98	0.06	0.04	9.89			
QP	460.5k	44.66	56.69	-12.03	10.01	Line	-	34.65	0.06	0.06	9.89			
AV	460.5k	39.98	46.69	-6.71	10.01	Line	"Worst"	29.97	0.06	0.06	9.89			
QP	6.9M	36.20	60.00	-23.80	10.22	Line	-	25.98	0.18	0.14	9.90			
AV	6.9M	28.19	50.00	-21.81	10.22	Line	-	17.97	0.18	0.14	9.90			
QP	13.497M	34.14	60.00	-25.86	10.35	Line	-	23.79	0.25	0.17	9.93			
AV	13.497M	26.47	50.00	-23.53	10.35	Line	-	16.12	0.25	0.17	9.93			

Mode 2



Type	Freq	Level	Limit	Margin	Factor	Condition	Comment	Raw	LISN	CL	AT			
	(Hz)	(dBuV)	(dBuV)	(dB)	(dB)			(dBuV)	(dB)	(dB)	(dB)			
QP	217.5k	48.30	62.92	-14.62	10.00	Neutral	-	38.30	0.07	0.04	9.89			
AV	217.5k	39.38	52.92	-13.54	10.00	Neutral	-	29.38	0.07	0.04	9.89			
QP	253.5k	43.51	61.64	-18.13	10.01	Neutral	-	33.50	0.07	0.05	9.89			
AV	253.5k	35.19	51.64	-16.45	10.01	Neutral	-	25.18	0.07	0.05	9.89			
QP	460.5k	44.77	56.69	-11.92	10.02	Neutral	-	34.75	0.07	0.06	9.89			
AV	460.5k	40.24	46.69	-6.45	10.02	Neutral	"Worst"	30.22	0.07	0.06	9.89			
QP	595.5k	25.84	56.00	-30.16	10.01	Neutral	-	15.83	0.07	0.05	9.89			
AV	595.5k	18.97	46.00	-27.03	10.01	Neutral	-	8.96	0.07	0.05	9.89			
QP	6.662M	37.20	60.00	-22.80	10.22	Neutral	-	26.98	0.19	0.13	9.90			
AV	6.662M	29.11	50.00	-20.89	10.22	Neutral	-	18.89	0.19	0.13	9.90			
QP	13.052M	32.38	60.00	-27.62	10.36	Neutral	-	22.02	0.26	0.17	9.93			
AV	13.052M	25.16	50.00	-24.84	10.36	Neutral	-	14.80	0.26	0.17	9.93			

Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.15-5.25GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	26.52M	17.502M	17M5D1D	21.51M	17.004M
5.25-5.35GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	25.47M	17.489M	17M5D1D	21.45M	16.935M
5.47-5.725GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	24.99M	17.455M	17M5D1D	15.615M	13.544M
5.725-5.85GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	16.35M	17.362M	17M4D1D	3.14M	4.171M

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

Result

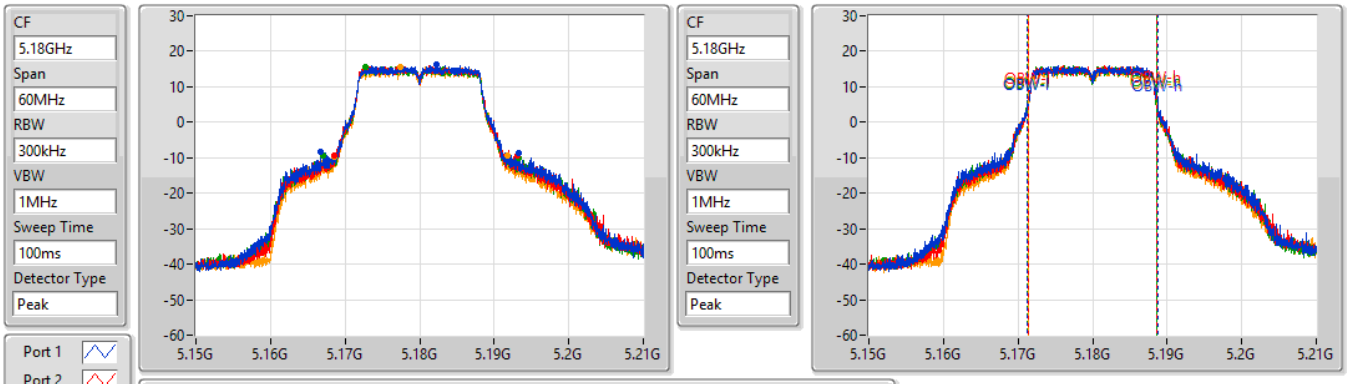
Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)	Port 3-N dB (Hz)	Port 3-OBW (Hz)	Port 4-N dB (Hz)	Port 4-OBW (Hz)
802.11a_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	Inf	26.52M	17.502M	24.45M	17.319M	26.13M	17.385M	23.22M	17.226M
5200MHz	Pass	Inf	23.37M	17.299M	22.2M	17.203M	23.19M	17.133M	21.96M	17.015M
5240MHz	Pass	Inf	24.45M	17.251M	23.01M	17.214M	22.29M	17.065M	21.51M	17.004M
5260MHz	Pass	Inf	21.6M	17.124M	21.66M	17.078M	21.45M	16.982M	21.66M	16.935M
5300MHz	Pass	Inf	21.69M	17.13M	21.45M	17.092M	21.45M	16.978M	21.48M	16.937M
5320MHz	Pass	Inf	23.73M	17.489M	25.47M	17.351M	25.08M	17.336M	24.87M	17.308M
5500MHz	Pass	Inf	24.99M	17.455M	23.01M	17.323M	24.39M	17.31M	24.15M	17.313M
5580MHz	Pass	Inf	21.51M	17.119M	21.72M	17.066M	21.63M	16.96M	21.48M	16.936M
5700MHz	Pass	Inf	21.51M	17.113M	21.63M	17.087M	21.45M	16.988M	21.51M	16.984M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	15.69M	13.634M	15.69M	13.609M	15.615M	13.544M	15.645M	13.554M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	3.14M	4.205M	3.14M	4.226M	3.14M	4.223M	3.16M	4.171M
5745MHz	Pass	500k	16.29M	17.362M	16.29M	17.338M	16.32M	17.281M	16.29M	17.246M
5785MHz	Pass	500k	16.29M	17.272M	16.32M	17.323M	16.35M	17.25M	16.32M	17.083M
5825MHz	Pass	500k	16.32M	17.349M	16.32M	17.278M	16.29M	17.247M	16.35M	17.048M

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

802.11a_Nss1,(6Mbps)_4TX EBW

5180MHz

22/09/2022

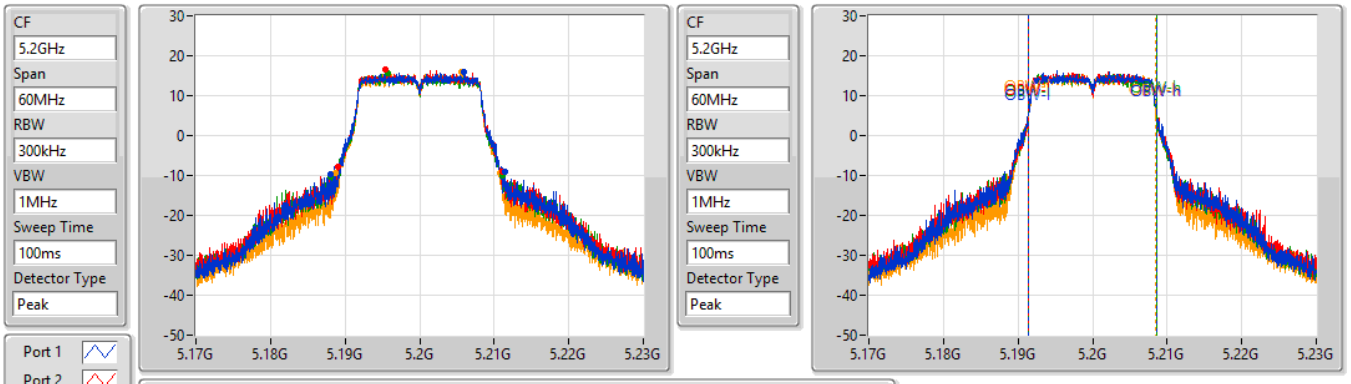


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
26.52M	5.16671G	5.19323G	17.502M	5.171264G	5.188766G	Inf	1
24.45M	5.16863G	5.19308G	17.319M	5.1713342G	5.188661G	Inf	2
26.13M	5.1671G	5.19323G	17.385M	5.171294G	5.18868G	Inf	3
23.22M	5.16857G	5.19179G	17.226M	5.171365G	5.188591G	Inf	4

802.11a_Nss1,(6Mbps)_4TX EBW

5200MHz

22/09/2022

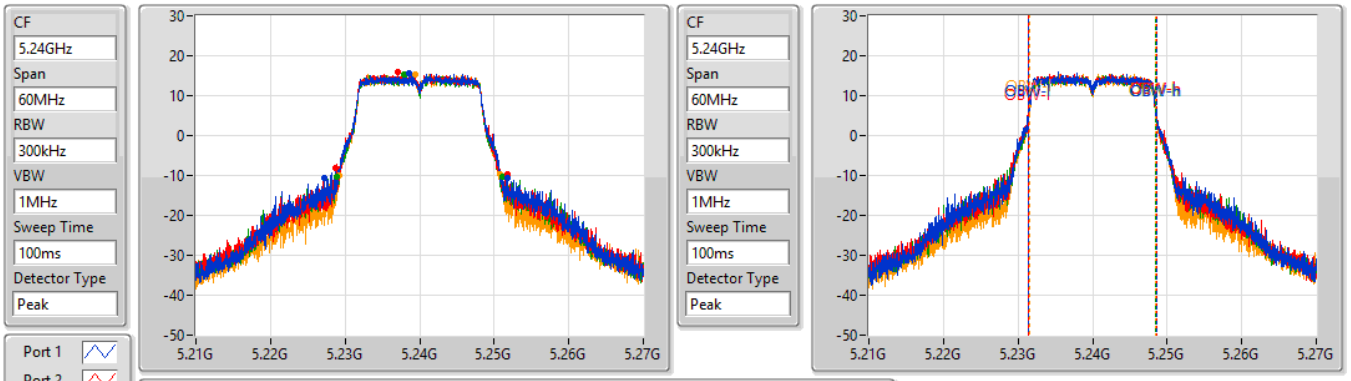


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
23.37M	5.18803G	5.2114G	17.299M	5.191343G	5.208642G	Inf	1
22.2M	5.18899G	5.21119G	17.203M	5.191382G	5.208585G	Inf	2
23.19M	5.18797G	5.21116G	17.133M	5.191423G	5.208556G	Inf	3
21.96M	5.18875G	5.21071G	17.015M	5.191475G	5.20849G	Inf	4

802.11a_Nss1,(6Mbps)_4TX EBW

5240MHz

22/09/2022

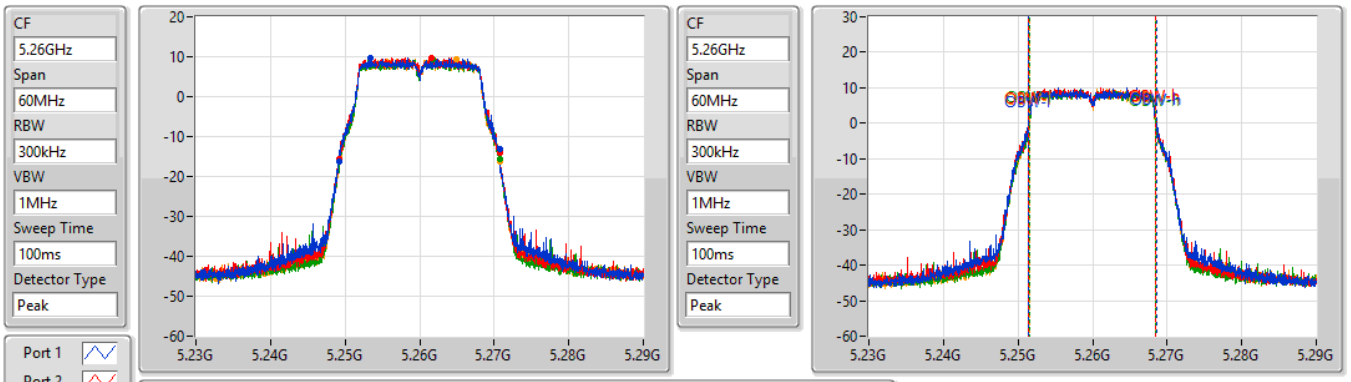


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
24.45M	5.22725G	5.2517G	17.251M	5.231355G	5.248606G	Inf	1
23.01M	5.22869G	5.2517G	17.214M	5.231346G	5.24856G	Inf	2
22.29M	5.22881G	5.2511G	17.065M	5.231458G	5.248523G	Inf	3
21.51M	5.2292G	5.25071G	17.004M	5.231481G	5.248485G	Inf	4

802.11a_Nss1,(6Mbps)_4TX EBW

5260MHz

22/09/2022

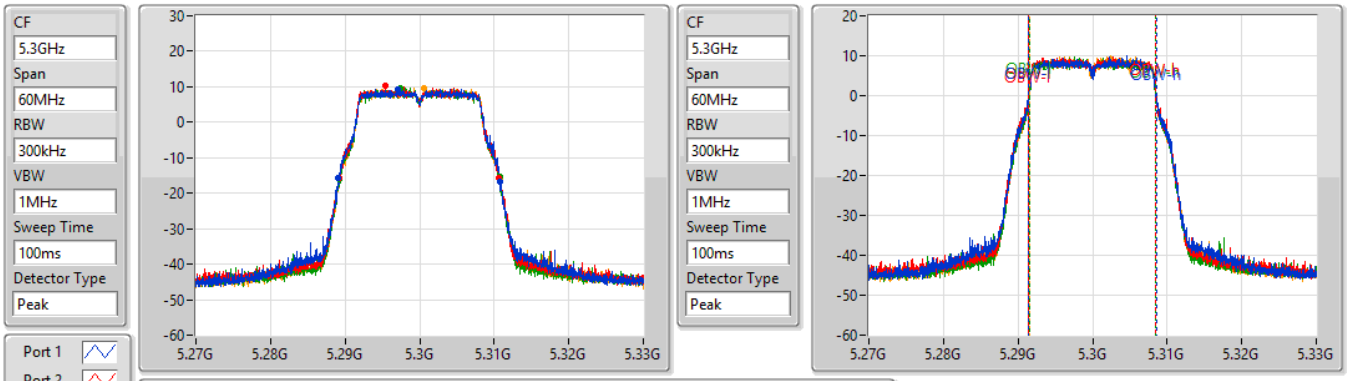


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
21.6M	5.24914G	5.27074G	17.124M	5.251415G	5.268538G	Inf	1
21.66M	5.24914G	5.2708G	17.078M	5.251439G	5.268517G	Inf	2
21.45M	5.24929G	5.27074G	16.982M	5.251505G	5.268487G	Inf	3
21.66M	5.24914G	5.2708G	16.935M	5.251518G	5.268454G	Inf	4

802.11a_Nss1,(6Mbps)_4TX EBW

5300MHz

22/09/2022

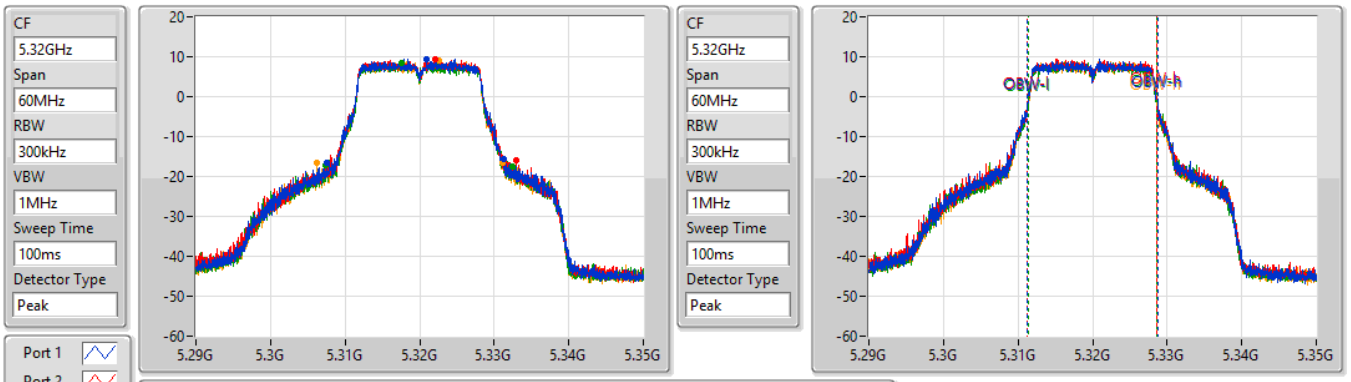


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
21.69M	5.28911G	5.3108G	17.13M	5.291425G	5.308555G	Inf	1
21.45M	5.28923G	5.31068G	17.092M	5.291409G	5.3085G	Inf	2
21.45M	5.28926G	5.31071G	16.978M	5.291518G	5.308496G	Inf	3
21.48M	5.28926G	5.31074G	16.937M	5.291524G	5.308461G	Inf	4

802.11a_Nss1,(6Mbps)_4TX EBW

5320MHz

22/09/2022

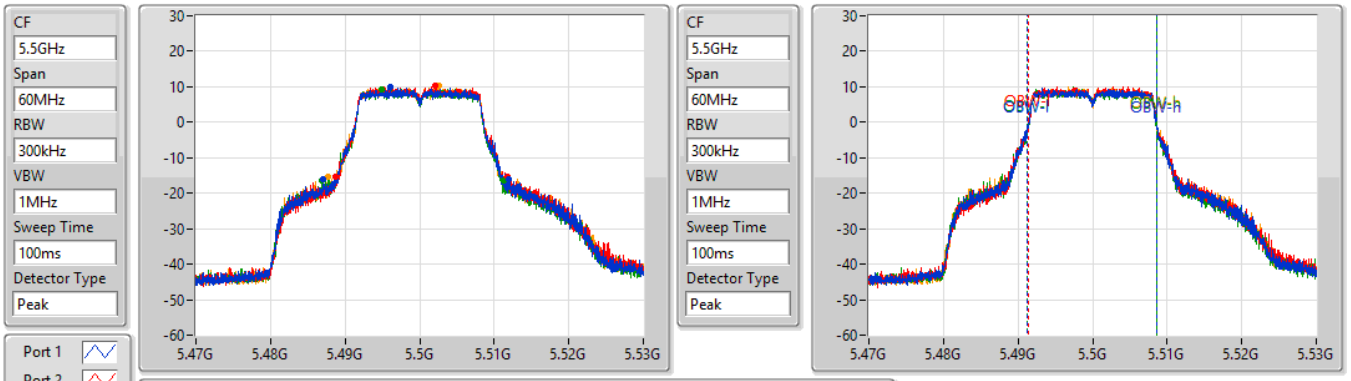


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
23.73M	5.30755G	5.33128G	17.489M	5.311251G	5.32874G	Inf	1
25.47M	5.30752G	5.33299G	17.351M	5.311288G	5.328639G	Inf	2
25.08M	5.30743G	5.33251G	17.336M	5.311348G	5.328684G	Inf	3
24.87M	5.3062G	5.33107G	17.308M	5.311309G	5.328617G	Inf	4

802.11a_Nss1,(6Mbps)_4TX EBW

5500MHz

22/09/2022

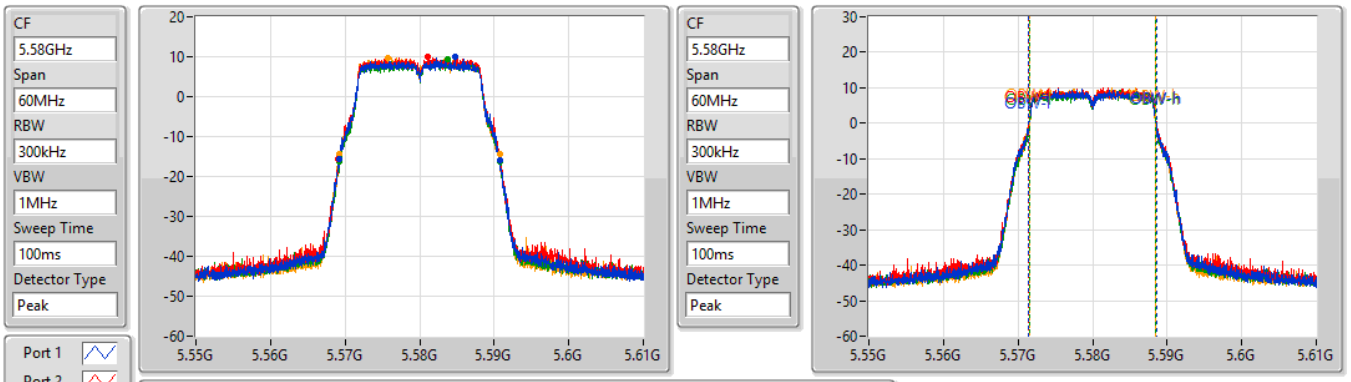


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
24.99M	5.48704G	5.51203G	17.455M	5.491231G	5.508685G	Inf	1
23.01M	5.48872G	5.51173G	17.323M	5.491362G	5.508685G	Inf	2
24.39M	5.48686G	5.51125G	17.31M	5.491301G	5.508611G	Inf	3
24.15M	5.48767G	5.51182G	17.313M	5.49134G	5.508653G	Inf	4

802.11a_Nss1,(6Mbps)_4TX EBW

5580MHz

22/09/2022

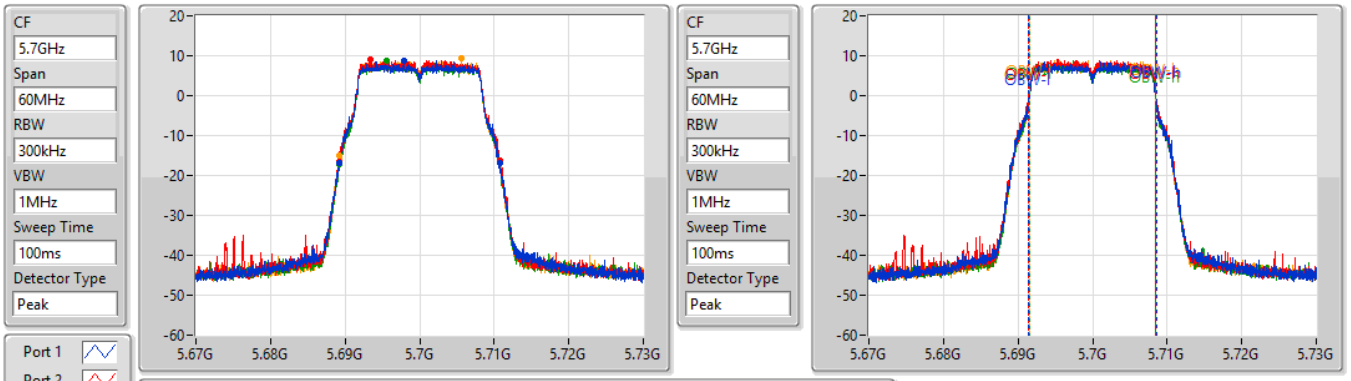


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
21.51M	5.56923G	5.59074G	17.119M	5.571431G	5.58855G	Inf	1
21.72M	5.56911G	5.59083G	17.066M	5.571466G	5.588532G	Inf	2
21.63M	5.56923G	5.59086G	16.96M	5.571543G	5.588503G	Inf	3
21.48M	5.56923G	5.59071G	16.936M	5.571513G	5.58845G	Inf	4

802.11a_Nss1,(6Mbps)_4TX EBW

5700MHz

22/09/2022

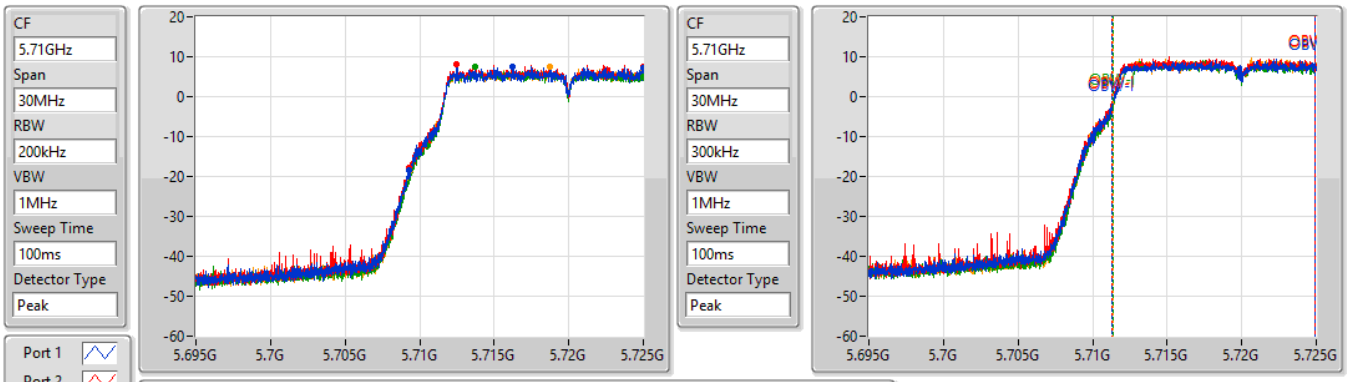


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
21.51M	5.6892G	5.71071G	17.113M	5.691412G	5.708525G	Inf	1
21.63M	5.68914G	5.71077G	17.087M	5.691422G	5.708508G	Inf	2
21.45M	5.68929G	5.71074G	16.988M	5.691514G	5.708502G	Inf	3
21.51M	5.68926G	5.71077G	16.984M	5.691482G	5.708466G	Inf	4

802.11a_Nss1,(6Mbps)_4TX EBW

5720MHz Straddle 5.47-5.725GHz

22/09/2022

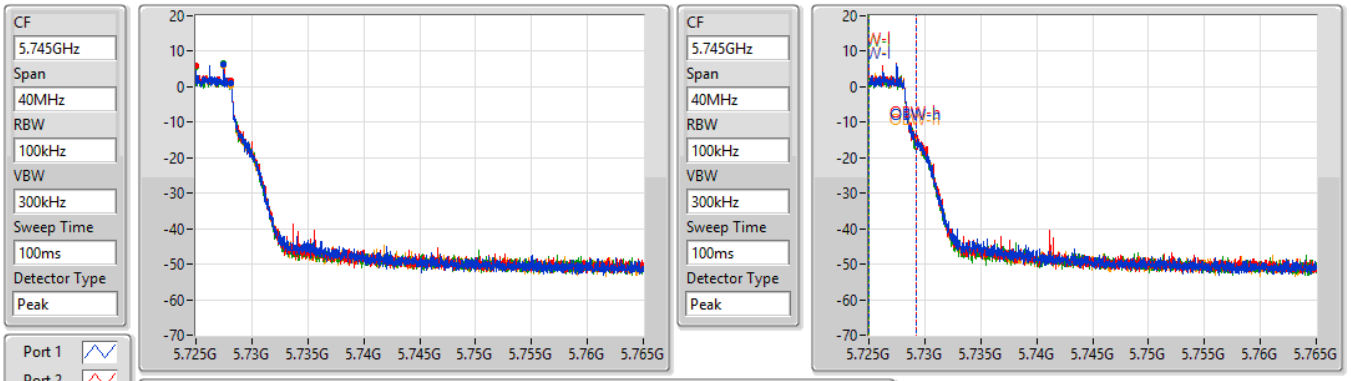


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
15.69M	5.70931G	5.725G	13.634M	5.711295G	5.72493G	Inf	1
15.69M	5.70931G	5.725G	13.609M	5.71132G	5.724929G	Inf	2
15.615M	5.709385G	5.725G	13.544M	5.71139G	5.724933G	Inf	3
15.645M	5.709355G	5.725G	13.554M	5.711383G	5.724937G	Inf	4

802.11a_Nss1,(6Mbps)_4TX EBW

5720MHz Straddle 5.725-5.85GHz

22/09/2022

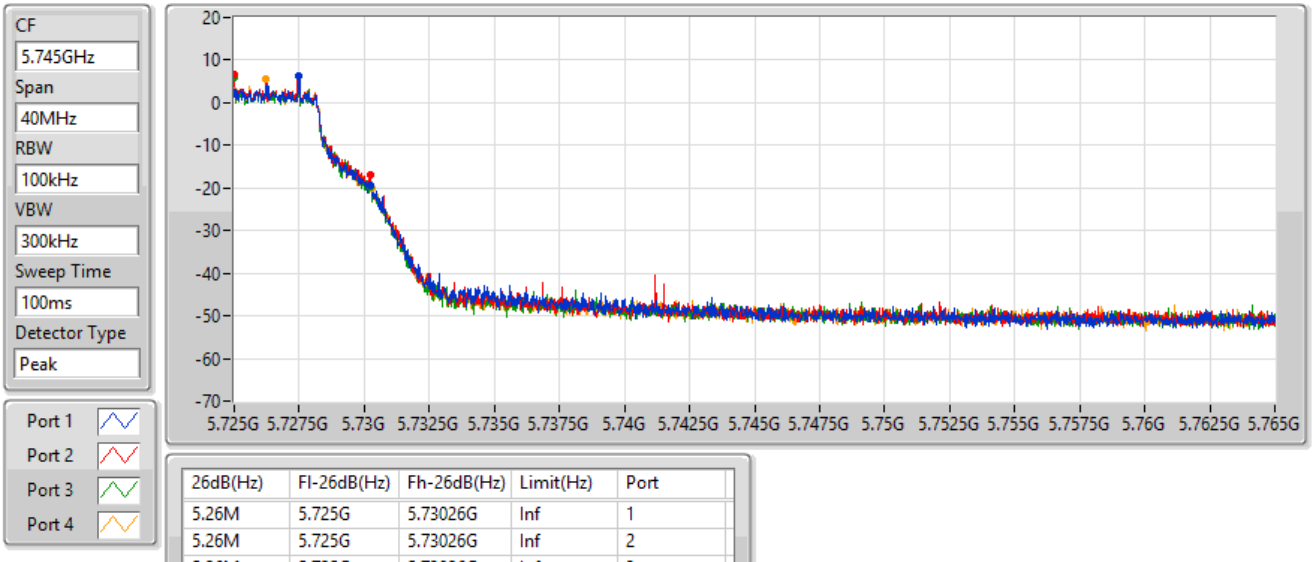


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
3.14M	5.725G	5.72814G	4.205M	5.725014G	5.729219G	500k	1
3.14M	5.725G	5.72814G	4.226M	5.725006G	5.729232G	500k	2
3.14M	5.725G	5.72814G	4.223M	5.725006G	5.729228G	500k	3
3.16M	5.725G	5.72816G	4.171M	5.725013G	5.729184G	500k	4

802.11a_Nss1,(6Mbps)_4TX EBW

5720MHz Straddle 5.725-5.85GHz

22/09/2022

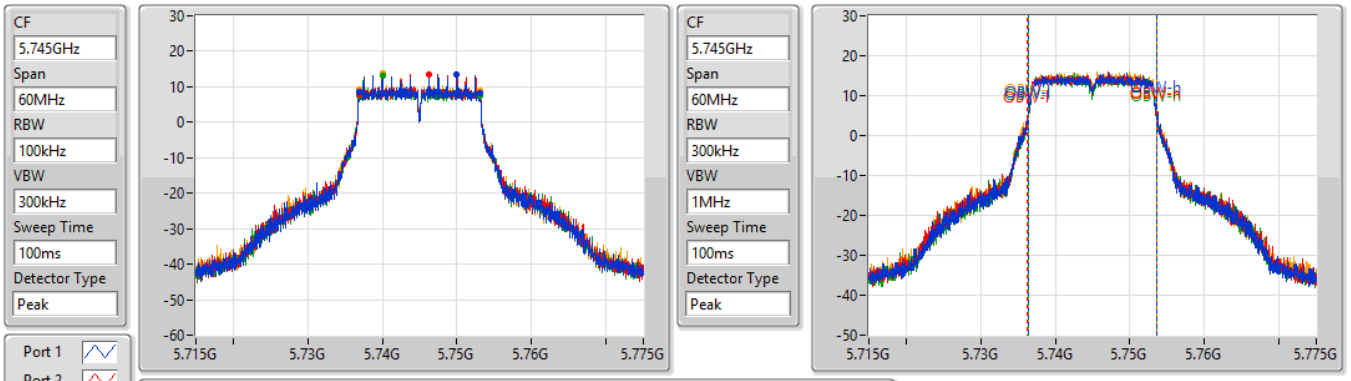


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	Limit(Hz)	Port
5.26M	5.725G	5.73026G	Inf	1
5.26M	5.725G	5.73026G	Inf	2
5.26M	5.725G	5.73026G	Inf	3
5.32M	5.725G	5.73032G	Inf	4

802.11a_Nss1,(6Mbps)_4TX EBW

5745MHz

22/09/2022

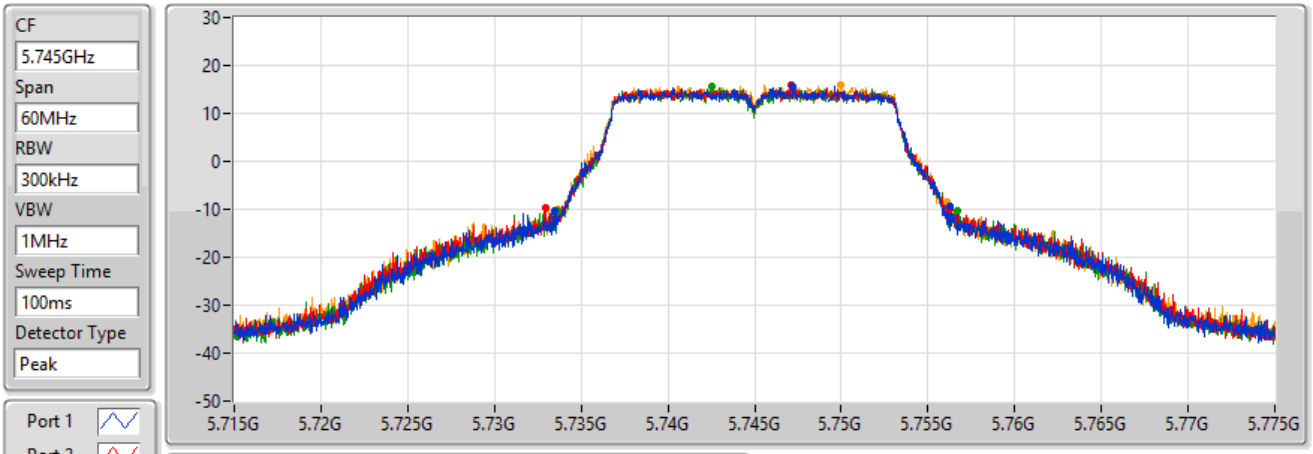


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.29M	5.73684G	5.75313G	17.362M	5.736325G	5.753687G	500k	1
16.29M	5.73684G	5.75313G	17.338M	5.736303G	5.753641G	500k	2
16.32M	5.73684G	5.75316G	17.281M	5.73636G	5.753641G	500k	3
16.29M	5.73684G	5.75313G	17.246M	5.736346G	5.753592G	500k	4

802.11a_Nss1,(6Mbps)_4TX EBW

5745MHz

22/09/2022

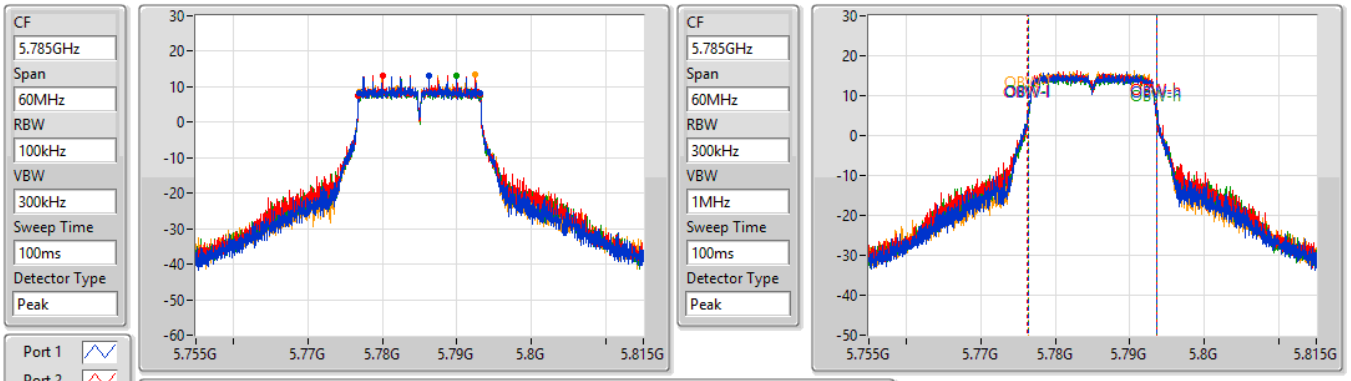


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	Limit(Hz)	Port
22.74M	5.73351G	5.75625G	Inf	1
23.31M	5.73294G	5.75625G	Inf	2
23.1M	5.73363G	5.75673G	Inf	3
22.41M	5.73366G	5.75607G	Inf	4

802.11a_Nss1,(6Mbps)_4TX EBW

5785MHz

22/09/2022

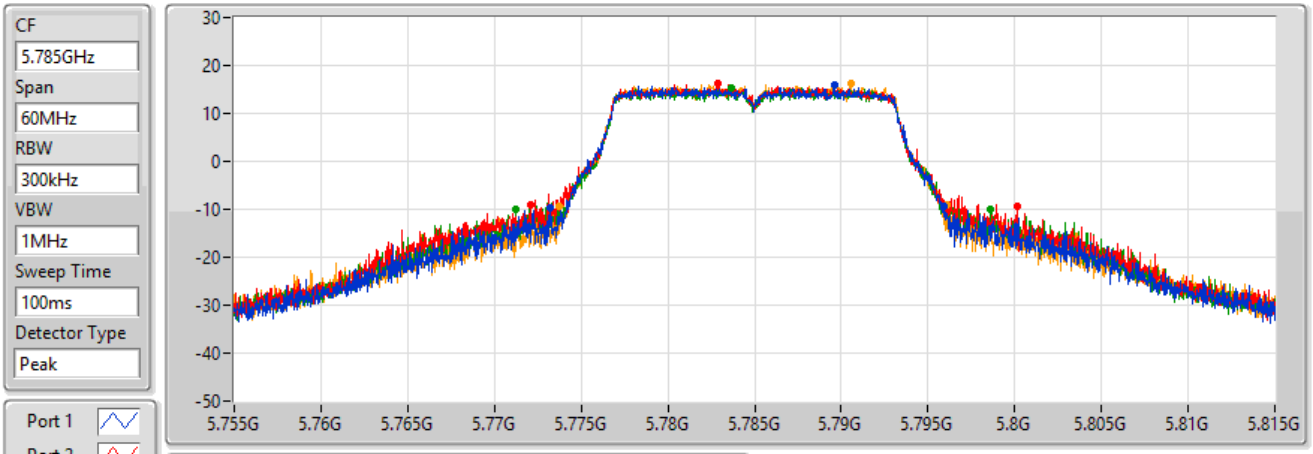


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.29M	5.77684G	5.79313G	17.272M	5.776339G	5.793611G	500k	1
16.32M	5.77681G	5.79313G	17.323M	5.776301G	5.793624G	500k	2
16.35M	5.77681G	5.79316G	17.25M	5.776385G	5.793635G	500k	3
16.32M	5.77684G	5.79316G	17.083M	5.776443G	5.793526G	500k	4

802.11a_Nss1,(6Mbps)_4TX EBW

5785MHz

22/09/2022

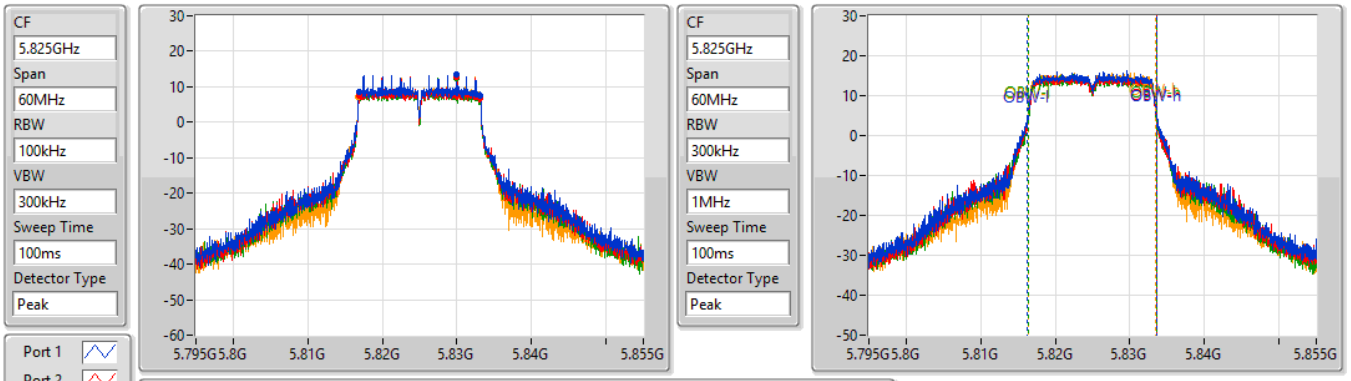


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	Limit(Hz)	Port
22.74M	5.77318G	5.79592G	Inf	1
28.05M	5.77207G	5.80012G	Inf	2
27.36M	5.77123G	5.79859G	Inf	3
22.35M	5.77372G	5.79607G	Inf	4

802.11a_Nss1,(6Mbps)_4TX EBW

5825MHz

22/09/2022

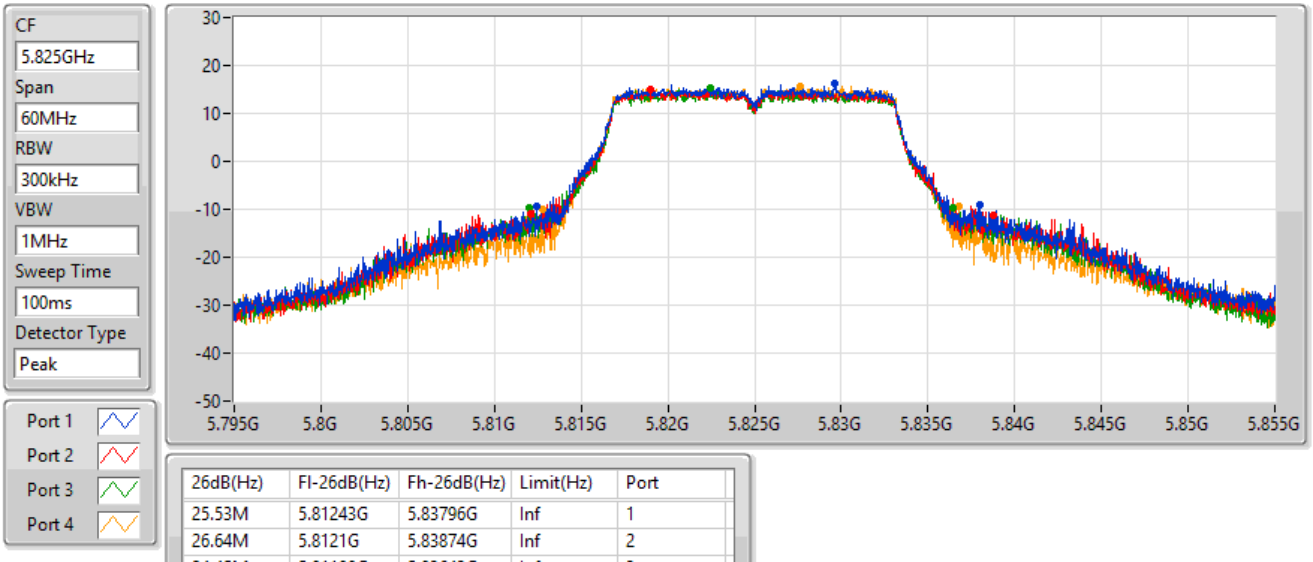


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.32M	5.81684G	5.83316G	17.349M	5.816282G	5.833632G	500k	1
16.32M	5.81684G	5.83316G	17.278M	5.816308G	5.833586G	500k	2
16.29M	5.81684G	5.83313G	17.247M	5.816332G	5.833579G	500k	3
16.35M	5.81681G	5.83316G	17.048M	5.816426G	5.833474G	500k	4

802.11a_Nss1,(6Mbps)_4TX EBW

5825MHz

22/09/2022



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	Limit(Hz)	Port
25.53M	5.81243G	5.83796G	Inf	1
26.64M	5.8121G	5.83874G	Inf	2
24.45M	5.81198G	5.83643G	Inf	3
24.06M	5.81276G	5.83682G	Inf	4

Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.15-5.25GHz	-	-	-	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	25.83M	19.278M	19M3D1D	21.72M	19.129M
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	44.94M	38.261M	38M3D1D	40.5M	37.973M
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	87.36M	77.961M	78M0D1D	86.76M	77.841M
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	83.04M	78.414M	78M4D1D	82.4M	78.278M
5.25-5.35GHz	-	-	-	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	28.23M	19.264M	19M3D1D	21.51M	19.079M
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	47.94M	38.211M	38M2D1D	40.44M	37.893M
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	90.96M	78.083M	78M1D1D	83.4M	77.89M
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	83.2M	78.421M	78M4D1D	82.48M	78.337M
5.47-5.725GHz	-	-	-	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	27.21M	19.267M	19M3D1D	15.75M	14.573M
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	48.24M	38.188M	38M2D1D	35.21M	33.818M
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	90.24M	78.092M	78M1D1D	75.75M	73.444M
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	166.08M	156.91M	157MD1D	164.64M	156.66M
5.725-5.85GHz	-	-	-	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	19.02M	19.252M	19M3D1D	4.42M	4.651M
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	37.74M	38.141M	38M1D1D	3.8M	4.118M
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	77.28M	77.962M	78M0D1D	3.74M	4.157M

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

Result

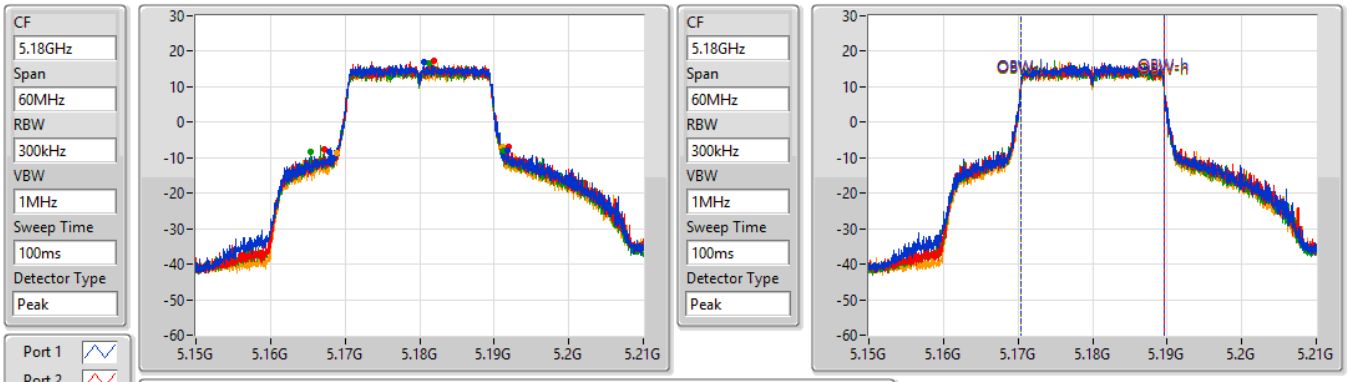
Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)	Port 3-N dB (Hz)	Port 3-OBW (Hz)	Port 4-N dB (Hz)	Port 4-OBW (Hz)
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	Inf	23.88M	19.254M	24.69M	19.265M	25.83M	19.278M	22.38M	19.218M
5200MHz	Pass	Inf	22.14M	19.222M	24M	19.161M	22.65M	19.204M	21.99M	19.172M
5240MHz	Pass	Inf	22.08M	19.149M	21.81M	19.131M	21.87M	19.155M	21.72M	19.129M
5260MHz	Pass	Inf	21.84M	19.12M	21.69M	19.079M	21.78M	19.102M	21.51M	19.131M
5300MHz	Pass	Inf	21.78M	19.131M	21.51M	19.095M	21.81M	19.083M	21.63M	19.12M
5320MHz	Pass	Inf	28.23M	19.264M	26.01M	19.243M	23.31M	19.221M	27.15M	19.244M
5500MHz	Pass	Inf	25.02M	19.251M	27.15M	19.267M	27.21M	19.247M	24.33M	19.209M
5580MHz	Pass	Inf	21.75M	19.163M	21.66M	19.138M	21.75M	19.098M	21.69M	19.102M
5700MHz	Pass	Inf	21.78M	19.117M	21.66M	19.151M	21.75M	19.137M	21.54M	19.103M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	15.795M	14.583M	15.75M	14.616M	15.87M	14.577M	15.885M	14.573M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	4.44M	4.696M	4.46M	4.651M	4.52M	4.666M	4.42M	4.653M
5745MHz	Pass	500k	18.87M	19.252M	18.96M	19.248M	18.87M	19.228M	18.9M	19.225M
5785MHz	Pass	500k	18.99M	19.141M	18.87M	19.15M	18.96M	19.143M	18.96M	19.151M
5825MHz	Pass	500k	18.9M	19.195M	18.93M	19.174M	19.02M	19.174M	18.96M	19.106M
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	Inf	43.26M	38.261M	42.6M	38.141M	43.32M	38.201M	44.22M	38.201M
5230MHz	Pass	Inf	40.86M	38.038M	44.94M	37.973M	40.5M	38.039M	40.8M	38.028M
5270MHz	Pass	Inf	40.98M	38.004M	40.44M	37.927M	40.62M	37.946M	40.44M	37.893M
5310MHz	Pass	Inf	47.94M	38.21M	47.04M	38.136M	41.58M	38.211M	43.44M	38.182M
5510MHz	Pass	Inf	48.24M	38.188M	46.56M	38.157M	41.76M	38.163M	42.78M	38.146M
5550MHz	Pass	Inf	40.5M	37.931M	40.44M	37.975M	40.5M	37.96M	40.26M	37.921M
5670MHz	Pass	Inf	40.62M	37.899M	40.44M	37.905M	40.62M	37.968M	40.56M	37.977M
5710MHz Straddle 5.47-5.725GHz	Pass	Inf	35.35M	33.882M	35.245M	33.865M	35.21M	33.891M	35.28M	33.818M
5710MHz Straddle 5.725-5.85GHz	Pass	500k	3.96M	4.119M	3.8M	4.119M	3.84M	4.118M	3.88M	4.128M
5755MHz	Pass	500k	37.74M	38.124M	37.5M	38.133M	37.62M	38.141M	37.74M	38.076M
5795MHz	Pass	500k	37.74M	38.005M	37.2M	38.088M	37.5M	38.046M	37.56M	37.974M
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	Inf	87.36M	77.961M	87.36M	77.961M	86.88M	77.961M	86.76M	77.841M
5290MHz	Pass	Inf	83.4M	77.988M	90.96M	78.083M	88.08M	77.89M	85.32M	77.958M
5530MHz	Pass	Inf	90.24M	78.092M	90M	77.936M	83.88M	77.997M	89.52M	77.956M
5610MHz	Pass	Inf	82.08M	77.685M	81.84M	77.54M	81.96M	77.71M	81.72M	77.657M
5690MHz Straddle 5.47-5.725GHz	Pass	Inf	76.2M	73.457M	75.9M	73.463M	75.75M	73.444M	75.975M	73.483M
5690MHz Straddle 5.725-5.85GHz	Pass	500k	3.9M	4.167M	3.82M	4.157M	3.74M	4.174M	3.9M	4.157M
5775MHz	Pass	500k	76.44M	77.962M	76.92M	77.95M	76.56M	77.893M	77.28M	77.938M
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	Inf	83.04M	78.414M	82.8M	78.355M	82.72M	78.398M	82.4M	78.278M
5250MHz Straddle 5.25-5.35GHz	Pass	Inf	82.64M	78.408M	82.48M	78.421M	83.2M	78.337M	83.12M	78.371M
5570MHz	Pass	Inf	166.08M	156.78M	164.64M	156.709M	165.12M	156.91M	165.12M	156.66M

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

802.11ax HEW20-BF_Nss1,(MCS0)_4TX EBW

5180MHz

22/09/2022

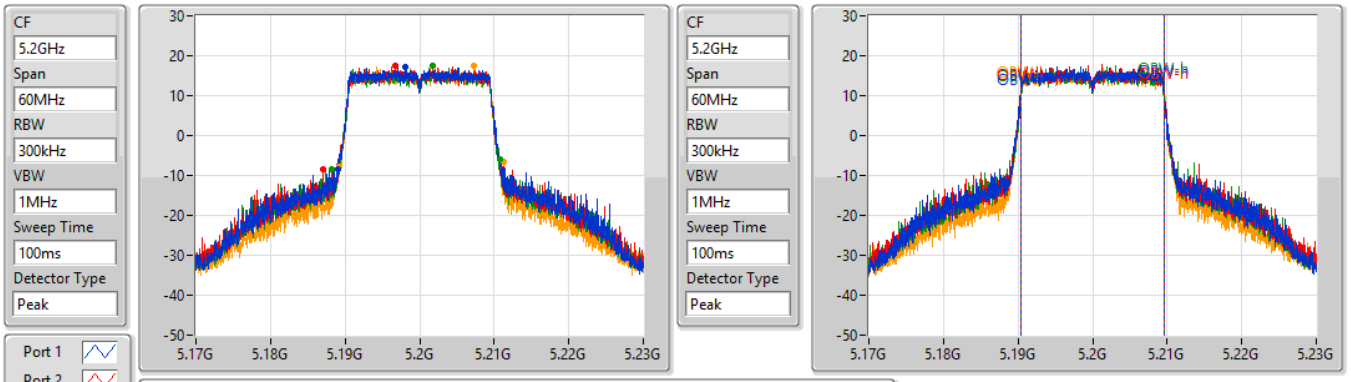


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
23.88M	5.16794G	5.19182G	19.254M	5.170357G	5.189611G	Inf	1
24.69M	5.16725G	5.19194G	19.265M	5.170349G	5.189613G	Inf	2
25.83M	5.16545G	5.19128G	19.278M	5.170352G	5.18963G	Inf	3
22.38M	5.16881G	5.19119G	19.218M	5.17039G	5.189608G	Inf	4

802.11ax HEW20-BF_Nss1,(MCS0)_4TX EBW

5200MHz

22/09/2022

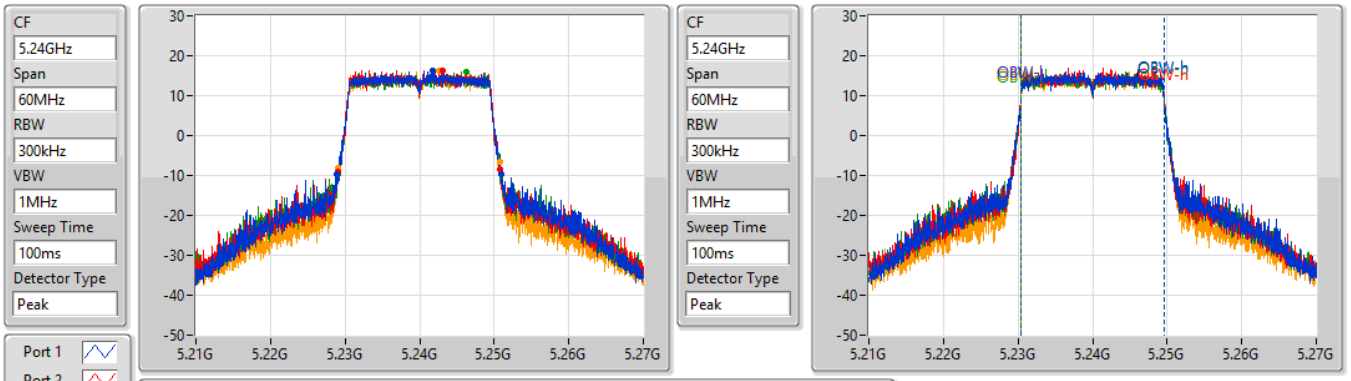


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
22.14M	5.18905G	5.21119G	19.222M	5.190383G	5.209604G	Inf	1
24M	5.18704G	5.21104G	19.161M	5.190405G	5.209566G	Inf	2
22.65M	5.18815G	5.2108G	19.204M	5.190383G	5.209587G	Inf	3
21.99M	5.18929G	5.21128G	19.172M	5.190422G	5.209594G	Inf	4

802.11ax HEW20-BF_Nss1,(MCS0)_4TX EBW

5240MHz

22/09/2022

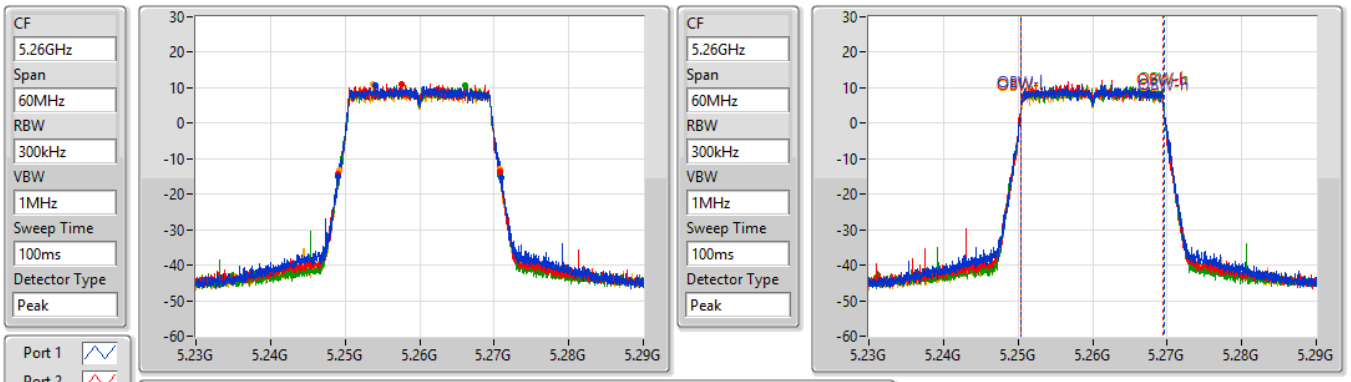


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
22.08M	5.2289G	5.25098G	19.149M	5.230414G	5.249563G	Inf	1
21.81M	5.22905G	5.25086G	19.131M	5.230417G	5.249547G	Inf	2
21.87M	5.22908G	5.25095G	19.155M	5.230409G	5.249564G	Inf	3
21.72M	5.22911G	5.25083G	19.129M	5.230437G	5.249565G	Inf	4

802.11ax HEW20-BF_Nss1,(MCS0)_4TX EBW

5260MHz

22/09/2022

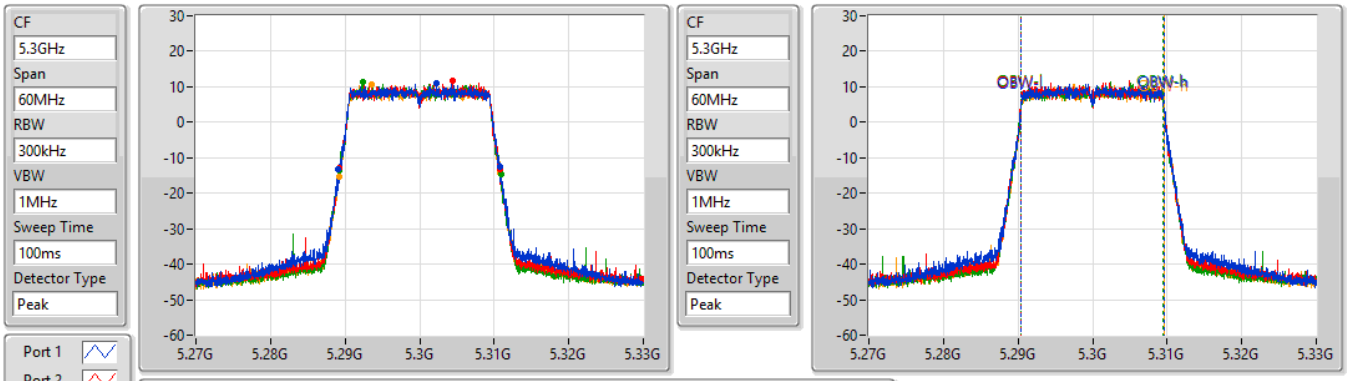


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
21.84M	5.24911G	5.27095G	19.12M	5.250435G	5.269554G	Inf	1
21.69M	5.24911G	5.2708G	19.079M	5.250435G	5.269515G	Inf	2
21.78M	5.24908G	5.27086G	19.102M	5.250436G	5.269538G	Inf	3
21.51M	5.24926G	5.27077G	19.131M	5.250448G	5.269579G	Inf	4

802.11ax HEW20-BF_Nss1,(MCS0)_4TX EBW

5300MHz

22/09/2022

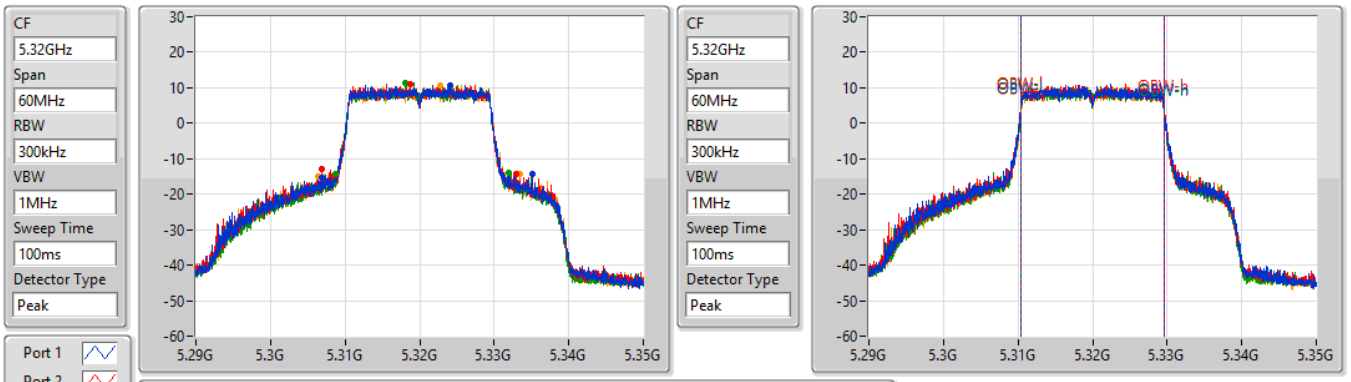


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
21.78M	5.28899G	5.31077G	19.131M	5.290417G	5.309548G	Inf	1
21.51M	5.28923G	5.31074G	19.095M	5.290438G	5.309533G	Inf	2
21.81M	5.28917G	5.31098G	19.083M	5.290437G	5.30952G	Inf	3
21.63M	5.28917G	5.3108G	19.12M	5.290436G	5.309557G	Inf	4

802.11ax HEW20-BF_Nss1,(MCS0)_4TX EBW

5320MHz

22/09/2022

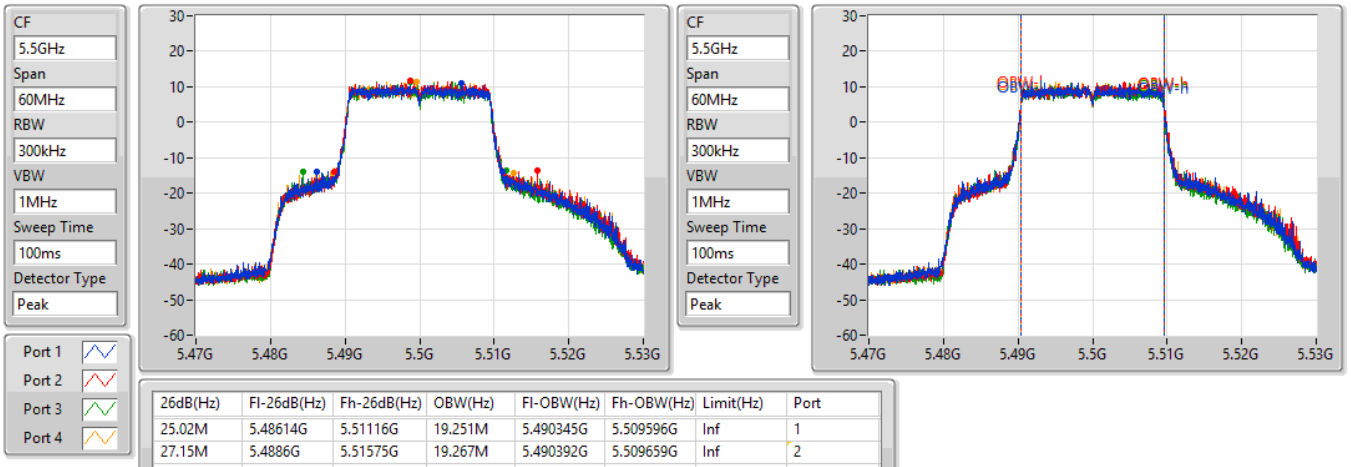


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
28.23M	5.30692G	5.33515G	19.264M	5.310337G	5.329601G	Inf	1
26.01M	5.30686G	5.33287G	19.243M	5.310366G	5.329609G	Inf	2
23.31M	5.30866G	5.33197G	19.221M	5.310368G	5.329589G	Inf	3
27.15M	5.30632G	5.33347G	19.244M	5.310372G	5.329616G	Inf	4

802.11ax HEW20-BF_Nss1,(MCS0)_4TX EBW

5500MHz

22/09/2022

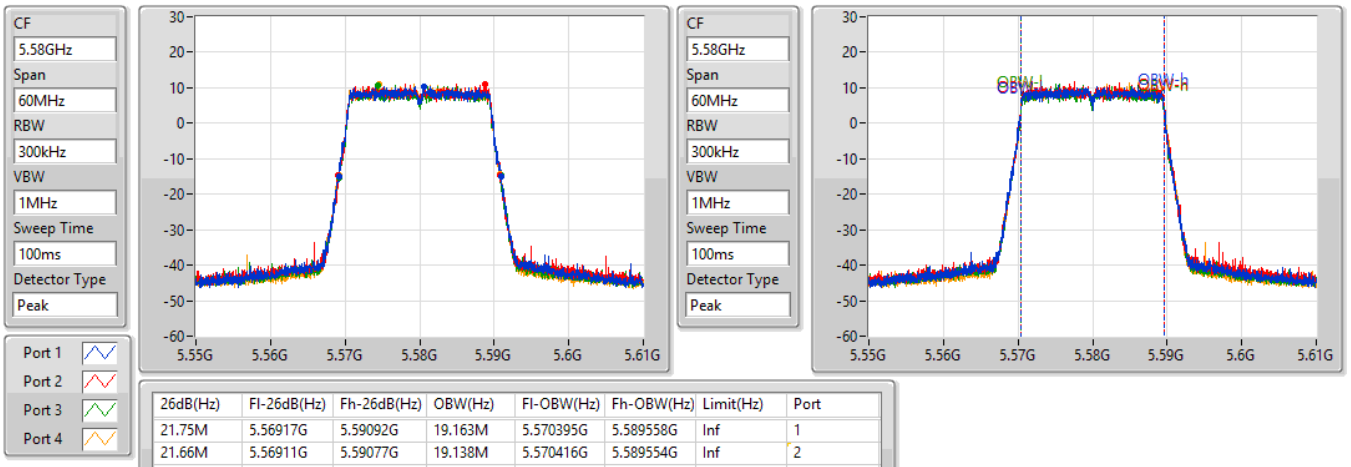


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
25.02M	5.48614G	5.51116G	19.251M	5.490345G	5.509596G	Inf	1
27.15M	5.4886G	5.51575G	19.267M	5.490392G	5.509659G	Inf	2
27.21M	5.48437G	5.51158G	19.247M	5.4903446G	5.509593G	Inf	3
24.33M	5.48836G	5.51269G	19.209M	5.490386G	5.509596G	Inf	4

802.11ax HEW20-BF_Nss1,(MCS0)_4TX EBW

5580MHz

22/09/2022

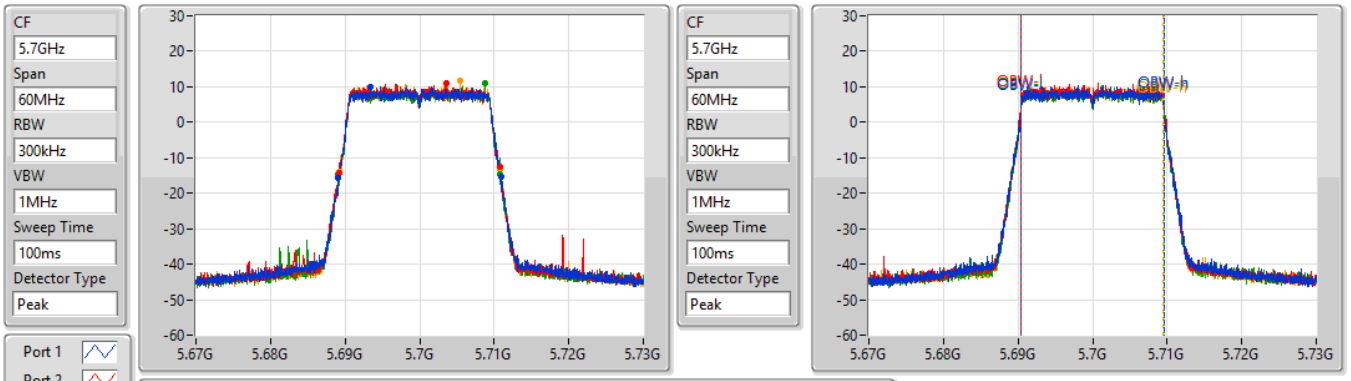


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
21.75M	5.56917G	5.59092G	19.163M	5.5703395G	5.589558G	Inf	1
21.66M	5.56911G	5.59077G	19.138M	5.5704416G	5.589554G	Inf	2
21.75M	5.56914G	5.59089G	19.098M	5.5704429G	5.589527G	Inf	3
21.69M	5.56914G	5.59083G	19.102M	5.5704428G	5.589531G	Inf	4

802.11ax HEW20-BF_Nss1,(MCS0)_4TX EBW

5700MHz

22/09/2022

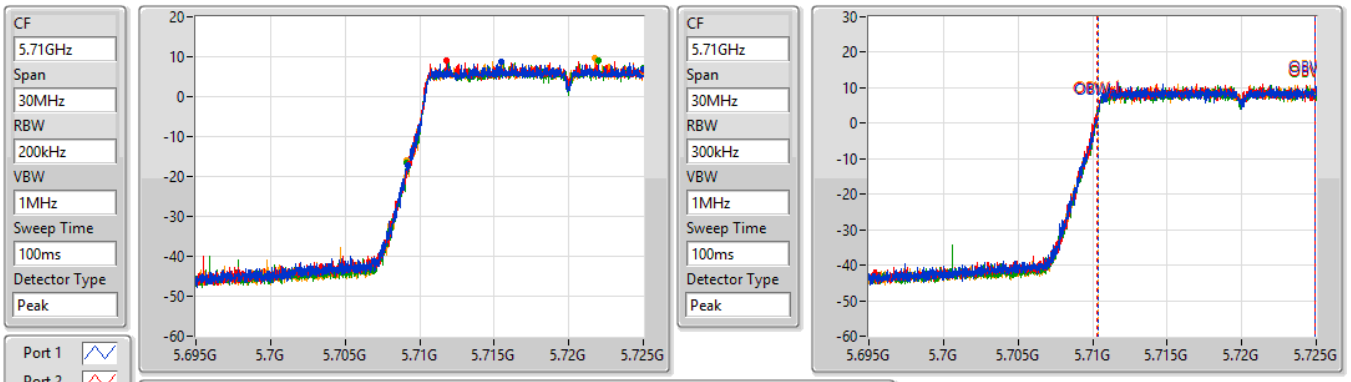


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
21.78M	5.68911G	5.71089G	19.117M	5.690421G	5.709537G	Inf	1
21.66M	5.68917G	5.71083G	19.151M	5.690393G	5.709544G	Inf	2
21.75M	5.689055G	5.7108G	19.137M	5.690421G	5.709558G	Inf	3
21.54M	5.68917G	5.71071G	19.103M	5.690421G	5.709524G	Inf	4

802.11ax HEW20-BF_Nss1,(MCS0)_4TX EBW

5720MHz Straddle 5.47-5.725GHz

22/09/2022

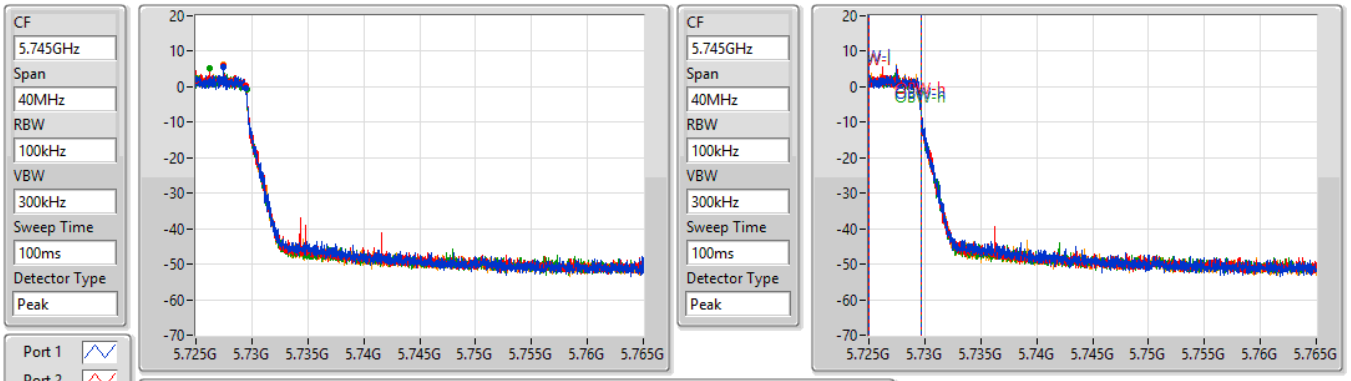


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
15.795M	5.709205G	5.725G	14.583M	5.710352G	5.724935G	Inf	1
15.75M	5.70925G	5.725G	14.616M	5.710317G	5.724933G	Inf	2
15.87M	5.70913G	5.725G	14.577M	5.710341G	5.724918G	Inf	3
15.885M	5.709115G	5.725G	14.573M	5.710355G	5.724928G	Inf	4

802.11ax HEW20-BF_Nss1,(MCS0)_4TX EBW

5720MHz Straddle 5.725-5.85GHz

22/09/2022

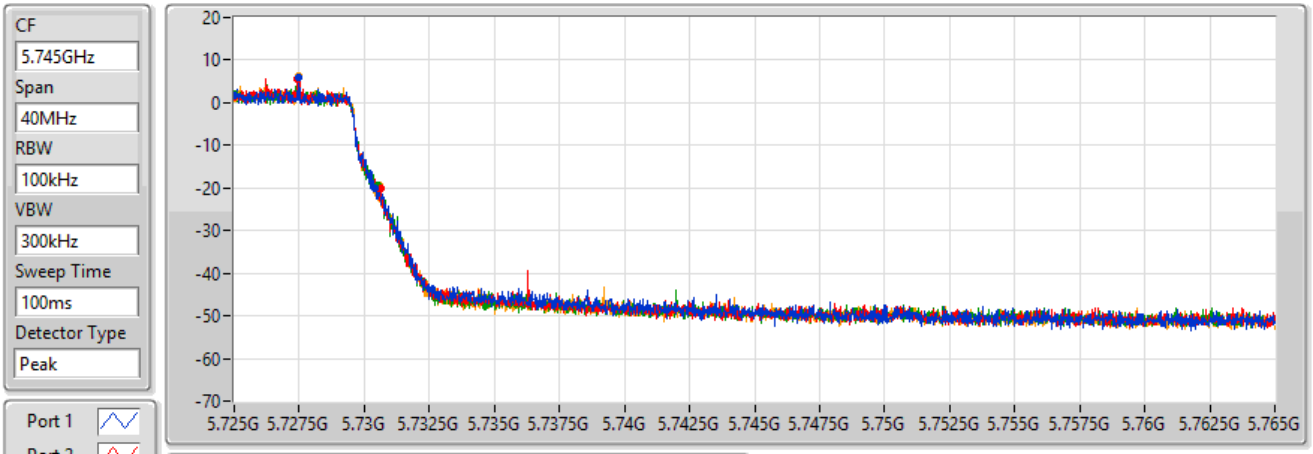


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
4.44M	5.725G	5.72944G	4.696M	5.72502G	5.729716G	500k	1
4.46M	5.725G	5.72946G	4.651M	5.725026G	5.729677G	500k	2
4.52M	5.725G	5.72952G	4.666M	5.725021G	5.729686G	500k	3
4.42M	5.725G	5.72942G	4.653M	5.725025G	5.729678G	500k	4

802.11ax HEW20-BF_Nss1,(MCS0)_4TX EBW

5720MHz Straddle 5.725-5.85GHz

22/09/2022

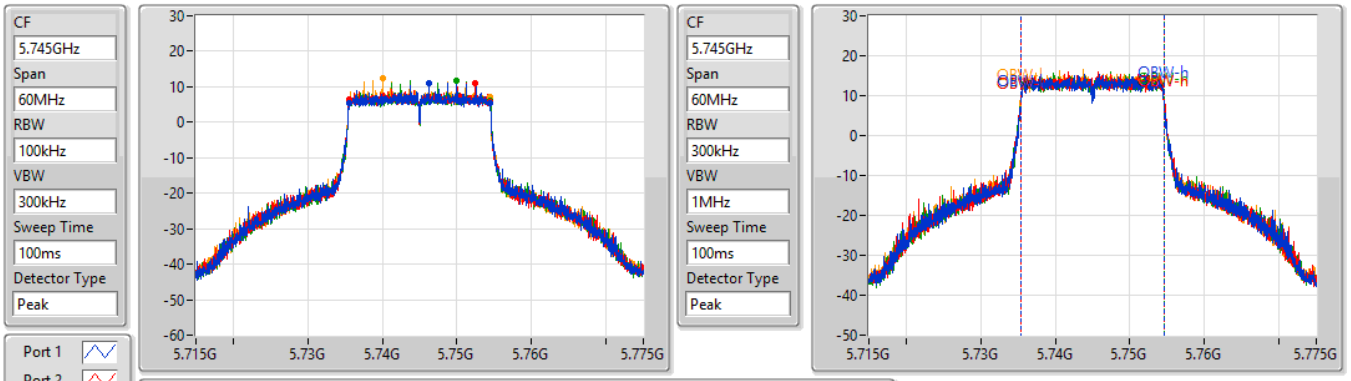


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	Limit(Hz)	Port
5.42M	5.725G	5.73042G	Inf	1
5.64M	5.725G	5.73064G	Inf	2
5.5M	5.725G	5.7305G	Inf	3
5.56M	5.725G	5.73056G	Inf	4

802.11ax HEW20-BF_Nss1,(MCS0)_4TX EBW

5745MHz

22/09/2022

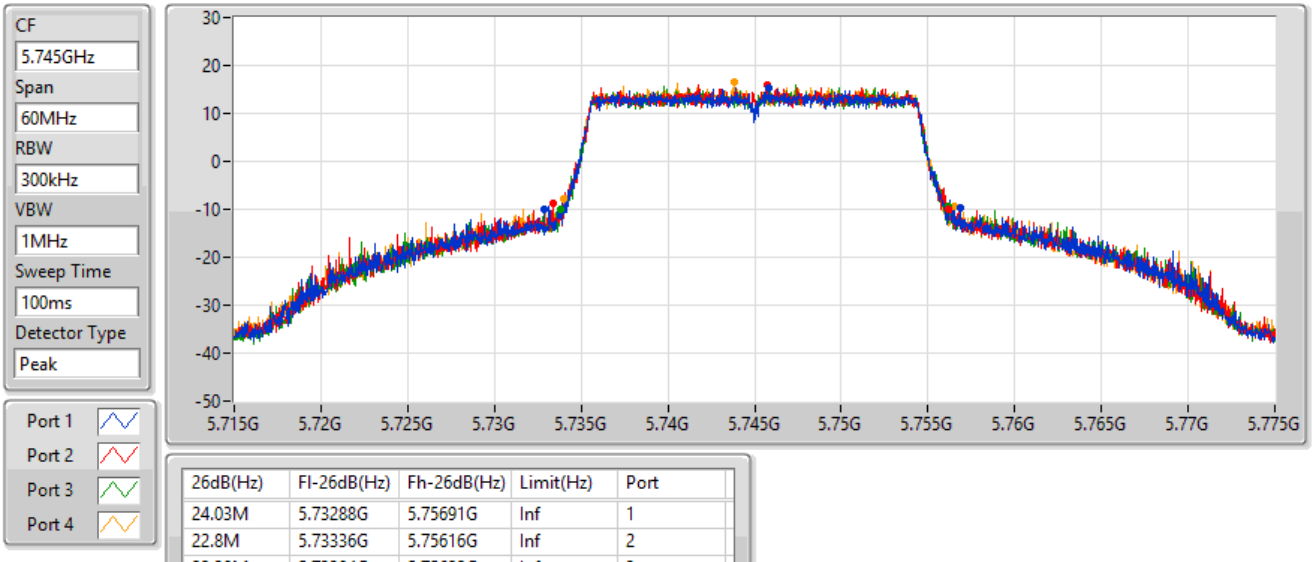


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
18.87M	5.73552G	5.75439G	19.252M	5.73535G	5.754602G	500k	1
18.96M	5.73552G	5.75448G	19.248M	5.735378G	5.754626G	500k	2
18.87M	5.73552G	5.75439G	19.228M	5.735379G	5.754608G	500k	3
18.9M	5.73549G	5.75439G	19.225M	5.73535G	5.754575G	500k	4

802.11ax HEW20-BF_Nss1,(MCS0)_4TX EBW

5745MHz

22/09/2022

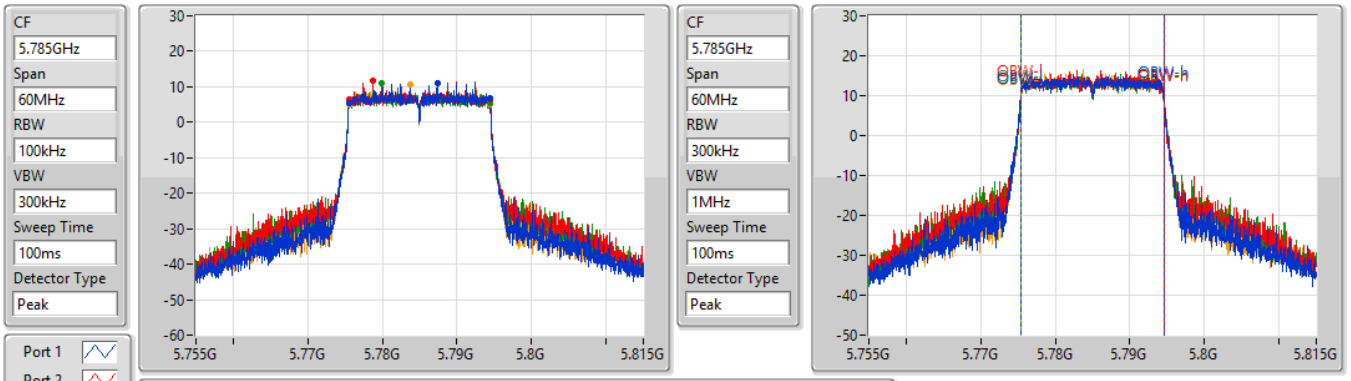


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	Limit(Hz)	Port
24.03M	5.73288G	5.75691G	Inf	1
22.8M	5.73336G	5.75616G	Inf	2
22.38M	5.73384G	5.75622G	Inf	3
22.59M	5.73396G	5.75655G	Inf	4

802.11ax HEW20-BF_Nss1,(MCS0)_4TX EBW

5785MHz

22/09/2022

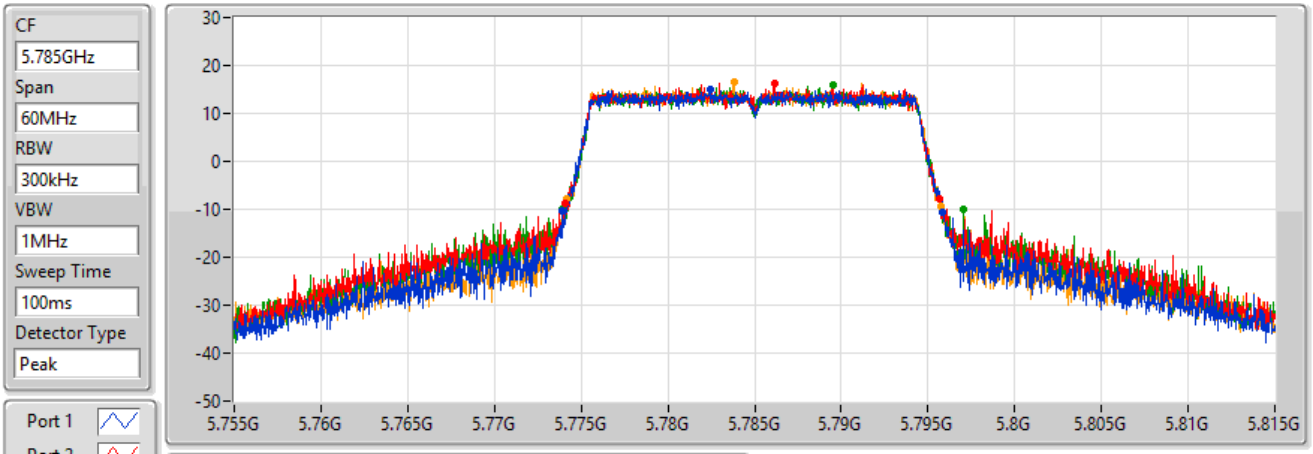


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
18.99M	5.77549G	5.79448G	19.141M	5.77539G	5.794532G	500k	1
18.87M	5.77555G	5.79442G	19.15M	5.775391G	5.794541G	500k	2
18.96M	5.77552G	5.79448G	19.143M	5.775401G	5.794544G	500k	3
18.96M	5.77549G	5.79445G	19.151M	5.775406G	5.794557G	500k	4

802.11ax HEW20-BF_Nss1,(MCS0)_4TX EBW

5785MHz

22/09/2022

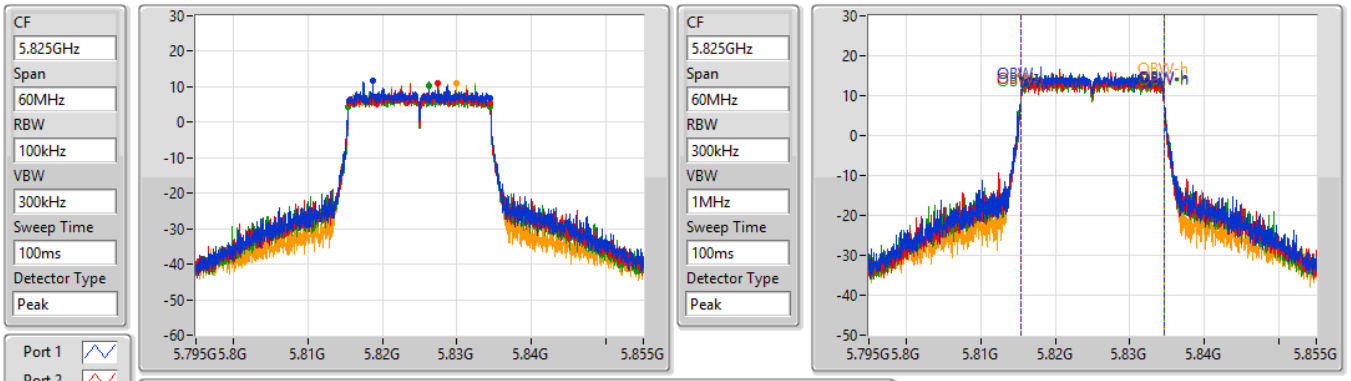


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	Limit(Hz)	Port
21.93M	5.77393G	5.79586G	Inf	1
21.63M	5.77405G	5.79568G	Inf	2
23.13M	5.7739G	5.79703G	Inf	3
21.63M	5.77414G	5.79577G	Inf	4

802.11ax HEW20-BF_Nss1,(MCS0)_4TX EBW

5825MHz

22/09/2022

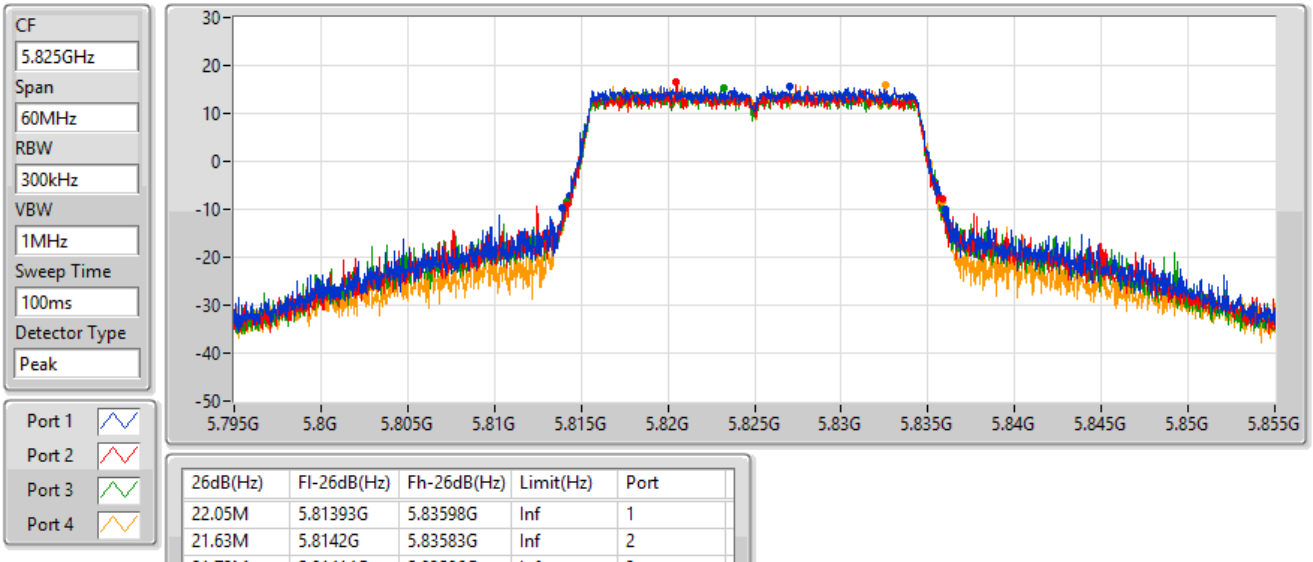


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
18.9M	5.81552G	5.83442G	19.195M	5.815373G	5.834568G	500k	1
18.93M	5.81552G	5.83445G	19.174M	5.81537G	5.834545G	500k	2
19.02M	5.815546G	5.83448G	19.174M	5.815392G	5.834565G	500k	3
18.96M	5.81552G	5.83448G	19.106M	5.815434G	5.83454G	500k	4

802.11ax HEW20-BF_Nss1,(MCS0)_4TX EBW

5825MHz

22/09/2022

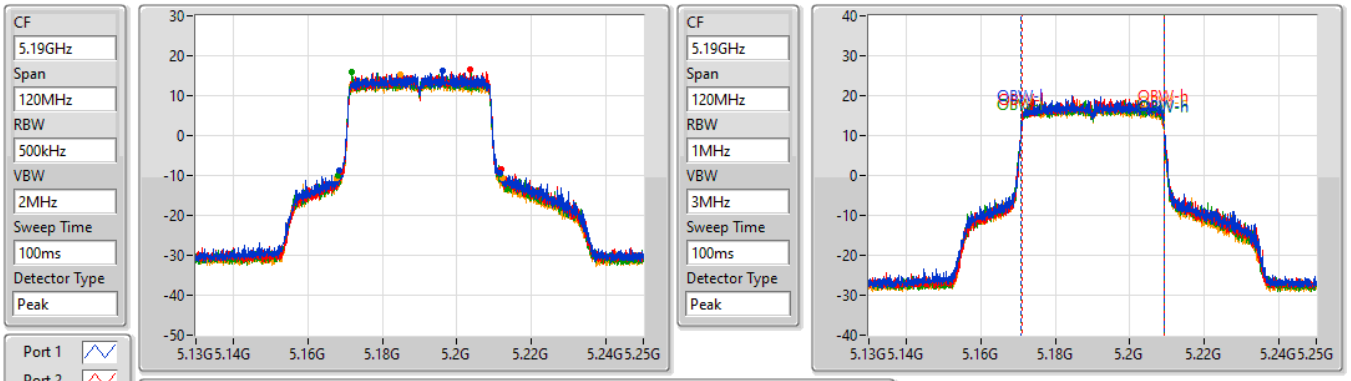


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	Limit(Hz)	Port
22.05M	5.81393G	5.83598G	Inf	1
21.63M	5.8142G	5.83583G	Inf	2
21.72M	5.81414G	5.83586G	Inf	3
21.69M	5.81414G	5.83583G	Inf	4

802.11ax HEW40-BF_Nss1,(MCS0)_4TX EBW

5190MHz

29/09/2022

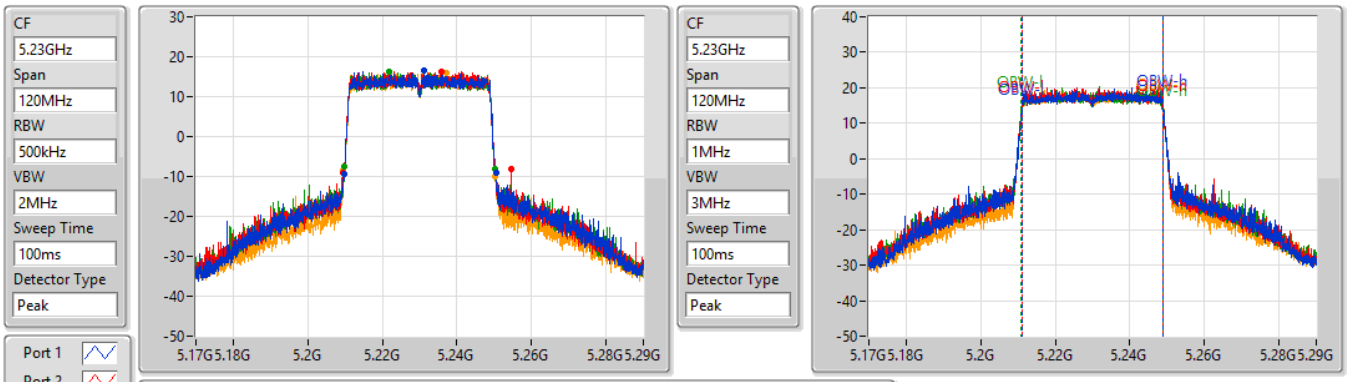


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
43.26M	5.1684G	5.21166G	38.261M	5.17093G	5.20919G	Inf	1
42.6M	5.16918G	5.21178G	38.141M	5.17099G	5.20913G	Inf	2
43.32M	5.1681G	5.21142G	38.201M	5.17093G	5.20913G	Inf	3
44.22M	5.16792G	5.21214G	38.201M	5.17087G	5.20907G	Inf	4

802.11ax HEW40-BF_Nss1,(MCS0)_4TX EBW

5230MHz

22/09/2022

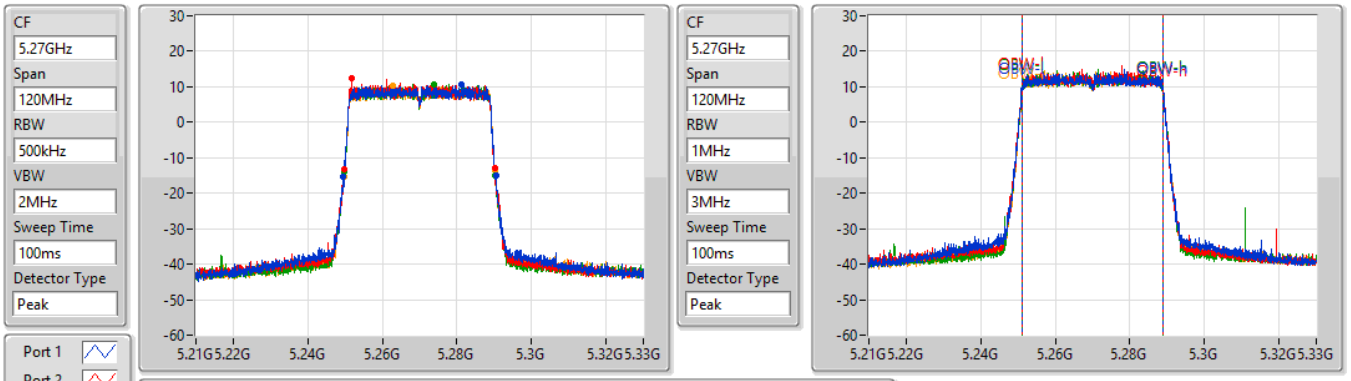


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
40.86M	5.20978G	5.25064G	38.038M	5.210984G	5.249022G	Inf	1
44.94M	5.20954G	5.25448G	37.973M	5.210997G	5.24897G	Inf	2
40.5M	5.20972G	5.25022G	38.039M	5.210944G	5.248983G	Inf	3
40.8M	5.20954G	5.25034G	38.028M	5.210977G	5.249005G	Inf	4

802.11ax HEW40-BF_Nss1,(MCS0)_4TX EBW

5270MHz

22/09/2022

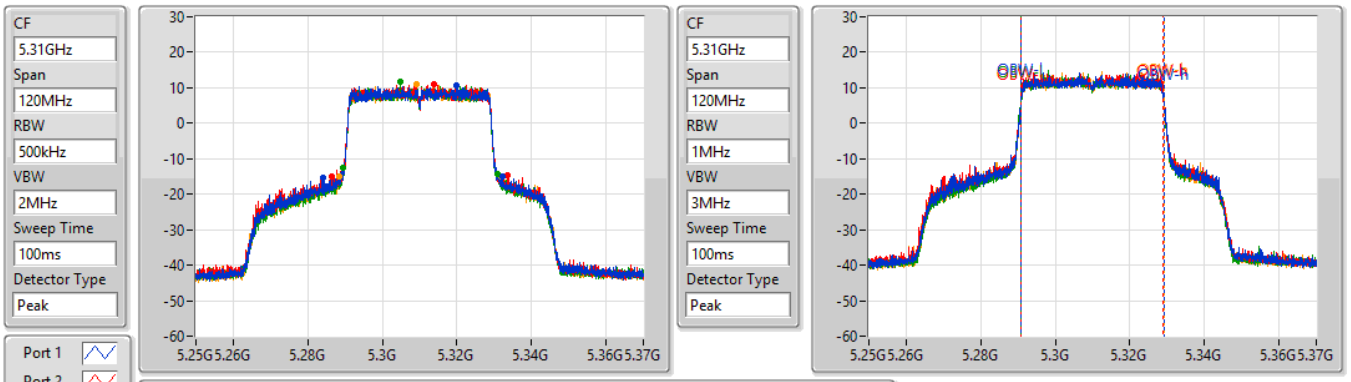


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
40.98M	5.24954G	5.29052G	38.004M	5.250982G	5.288986G	Inf	1
40.44M	5.24966G	5.2901G	37.927M	5.250985G	5.288912G	Inf	2
40.62M	5.24972G	5.29034G	37.946M	5.251008G	5.288954G	Inf	3
40.44M	5.24978G	5.29022G	37.893M	5.251065G	5.288958G	Inf	4

802.11ax HEW40-BF_Nss1,(MCS0)_4TX EBW

5310MHz

22/09/2022

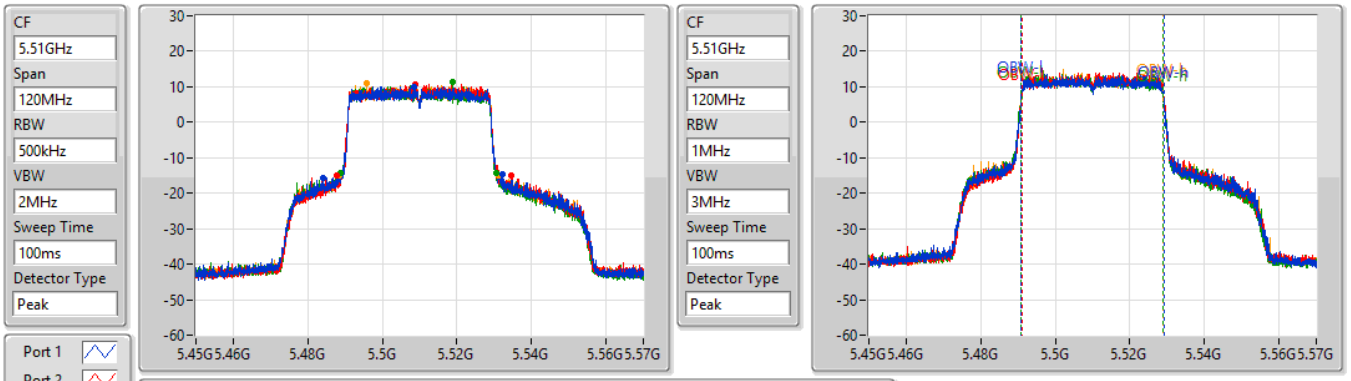


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
47.94M	5.28426G	5.3322G	38.21M	5.290872G	5.329082G	Inf	1
47.04M	5.28654G	5.33358G	38.136M	5.290892G	5.329028G	Inf	2
41.58M	5.28942G	5.331G	38.211M	5.290863G	5.329074G	Inf	3
43.44M	5.28834G	5.33178G	38.182M	5.290888G	5.329071G	Inf	4

802.11ax HEW40-BF_Nss1,(MCS0)_4TX EBW

5510MHz

22/09/2022

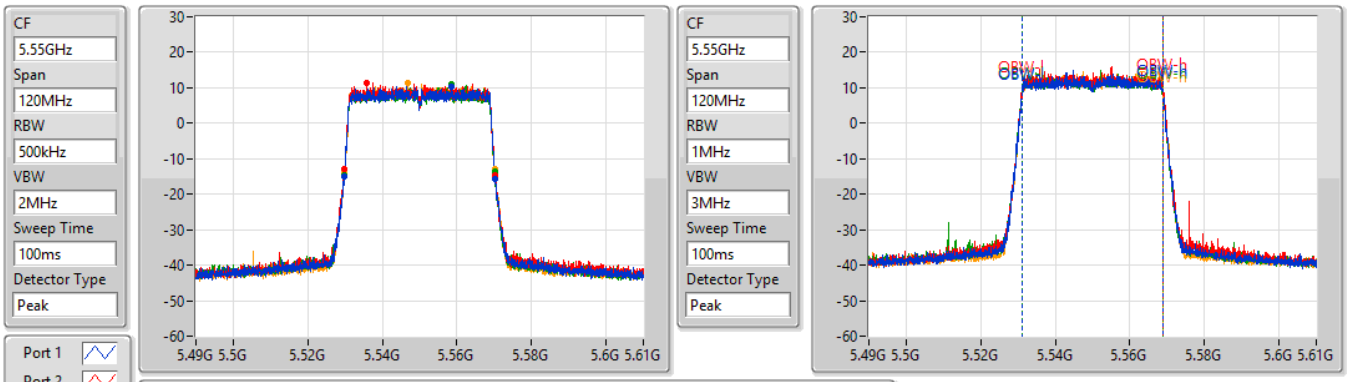


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
48.24M	5.48414G	5.53238G	38.188M	5.490879G	5.529067G	Inf	1
46.56M	5.48786G	5.53442G	38.157M	5.490958G	5.529115G	Inf	2
41.76M	5.48876G	5.53052G	38.163M	5.490843G	5.529006G	Inf	3
42.78M	5.48846G	5.53124G	38.146M	5.490892G	5.529039G	Inf	4

802.11ax HEW40-BF_Nss1,(MCS0)_4TX EBW

5550MHz

22/09/2022

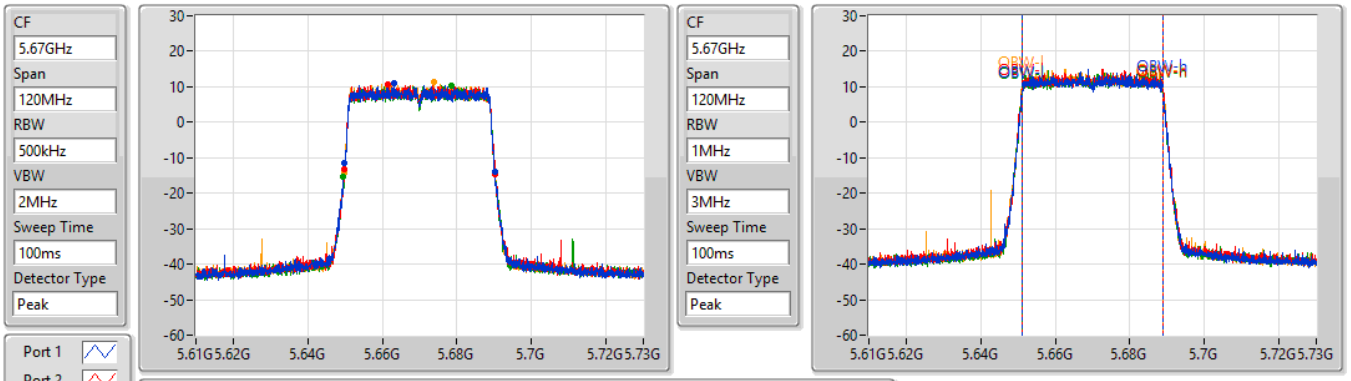


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
40.5M	5.52978G	5.57028G	37.931M	5.53104G	5.568971G	Inf	1
40.44M	5.52972G	5.57016G	37.975M	5.531005G	5.568979G	Inf	2
40.5M	5.52966G	5.57016G	37.96M	5.531003G	5.568963G	Inf	3
40.26M	5.52984G	5.5701G	37.921M	5.53106G	5.568981G	Inf	4

802.11ax HEW40-BF_Nss1,(MCS0)_4TX EBW

5670MHz

22/09/2022

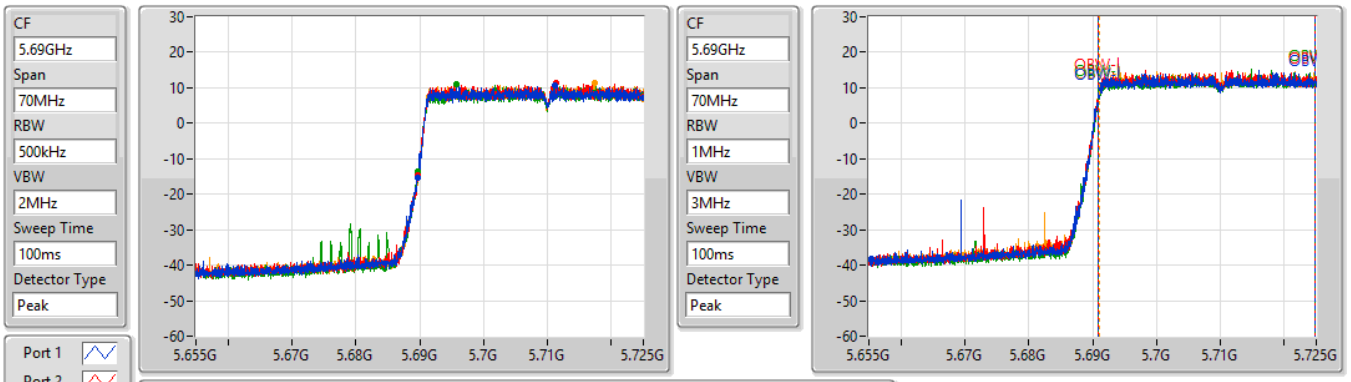


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
40.62M	5.64966G	5.69028G	37.899M	5.65101G	5.688909G	Inf	1
40.44M	5.64978G	5.69022G	37.905M	5.651019G	5.688924G	Inf	2
40.62M	5.6496G	5.69022G	37.968M	5.6509666G	5.688934G	Inf	3
40.56M	5.64972G	5.69028G	37.977M	5.65096G	5.688937G	Inf	4

802.11ax HEW40-BF_Nss1,(MCS0)_4TX EBW

5710MHz Straddle 5.47-5.725GHz

22/09/2022

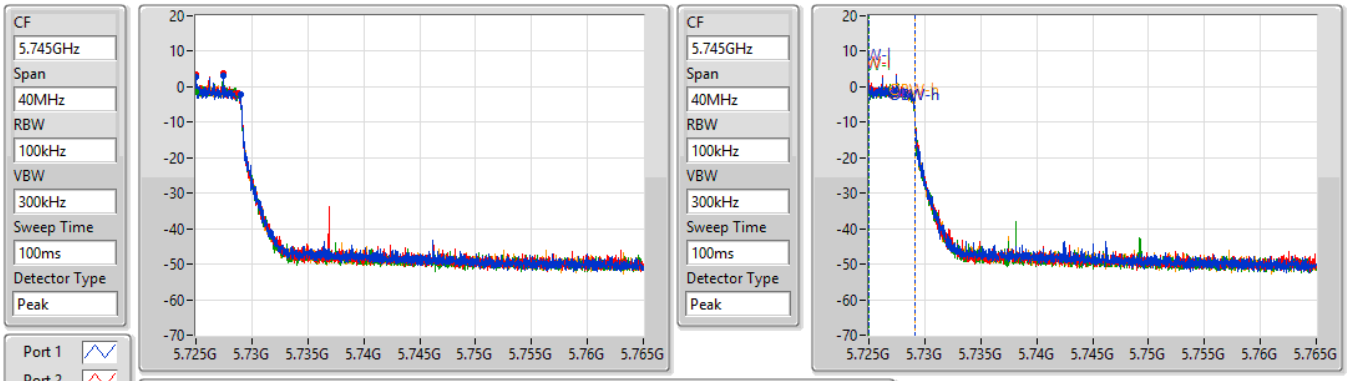


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
35.35M	5.68965G	5.725G	33.882M	5.69093G	5.724813G	Inf	1
35.245M	5.689755G	5.725G	33.865M	5.690971G	5.724837G	Inf	2
35.21M	5.68979G	5.725G	33.891M	5.690953G	5.724844G	Inf	3
35.28M	5.68972G	5.725G	33.818M	5.690995G	5.724813G	Inf	4

802.11ax HEW40-BF_Nss1,(MCS0)_4TX EBW

5710MHz Straddle 5.725-5.85GHz

22/09/2022

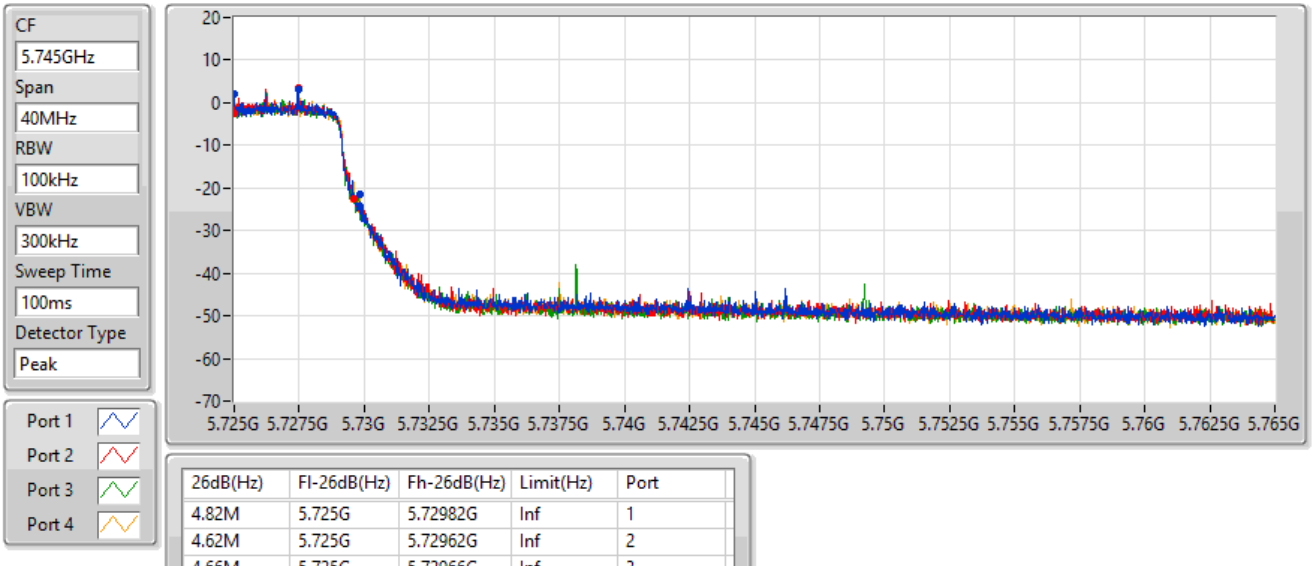


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
3.96M	5.725G	5.72896G	4.119M	5.725009G	5.729128G	500k	1
3.8M	5.725G	5.7288G	4.119M	5.725024G	5.729143G	500k	2
3.84M	5.725G	5.72884G	4.118M	5.725024G	5.729141G	500k	3
3.88M	5.725G	5.72888G	4.128M	5.725009G	5.729137G	500k	4

802.11ax HEW40-BF_Nss1,(MCS0)_4TX EBW

5710MHz Straddle 5.725-5.85GHz

22/09/2022

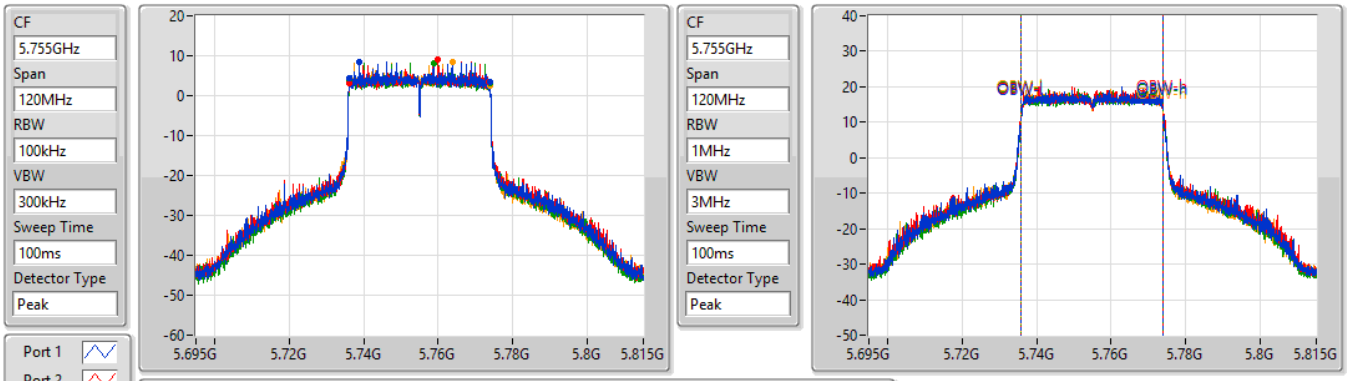


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	Limit(Hz)	Port
4.82M	5.725G	5.72982G	Inf	1
4.62M	5.725G	5.72962G	Inf	2
4.66M	5.725G	5.72966G	Inf	3
4.74M	5.725G	5.72974G	Inf	4

802.11ax HEW40-BF_Nss1,(MCS0)_4TX EBW

5755MHz

22/09/2022

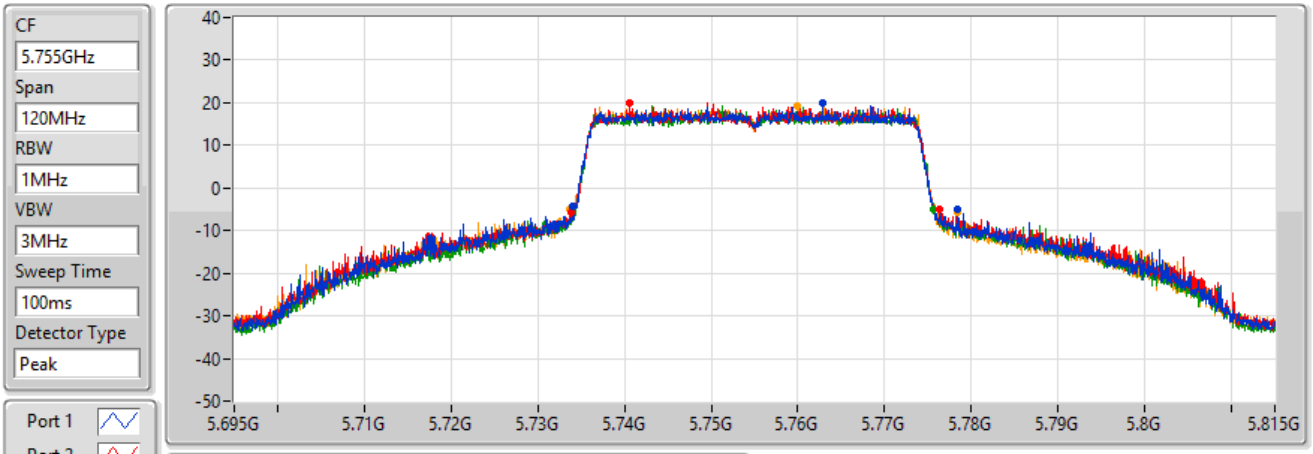


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
37.74M	5.73616G	5.7739G	38.124M	5.735901G	5.774025G	500k	1
37.5M	5.73616G	5.77366G	38.133M	5.735907G	5.77404G	500k	2
37.62M	5.73622G	5.77384G	38.141M	5.735893G	5.774035G	500k	3
37.74M	5.7361G	5.77384G	38.076M	5.735929G	5.774005G	500k	4

802.11ax HEW40-BF_Nss1,(MCS0)_4TX EBW

5755MHz

22/09/2022

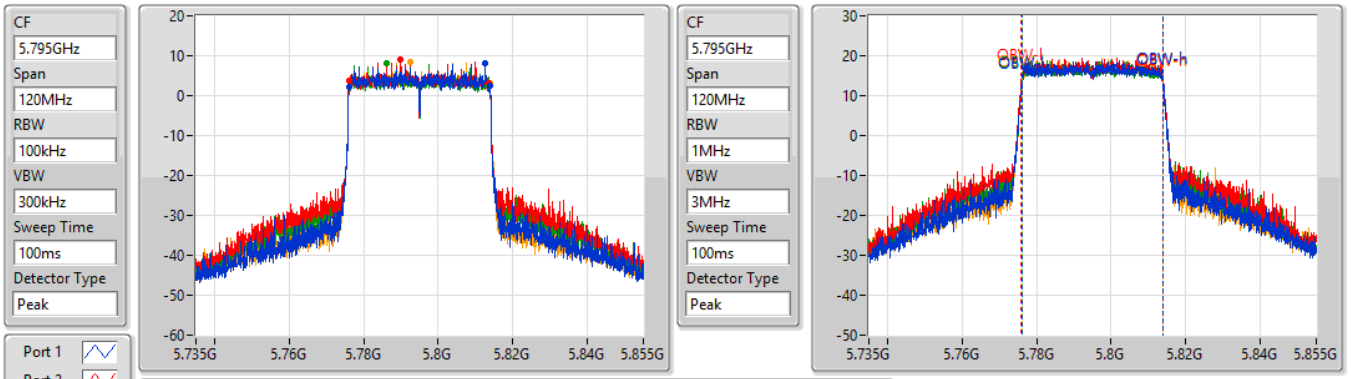


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	Limit(Hz)	Port
44.46M	5.734G	5.77846G	Inf	1
42.48M	5.73388G	5.77636G	Inf	2
41.76M	5.73394G	5.7757G	Inf	3
44.64M	5.73376G	5.7784G	Inf	4

802.11ax HEW40-BF_Nss1,(MCS0)_4TX EBW

5795MHz

22/09/2022

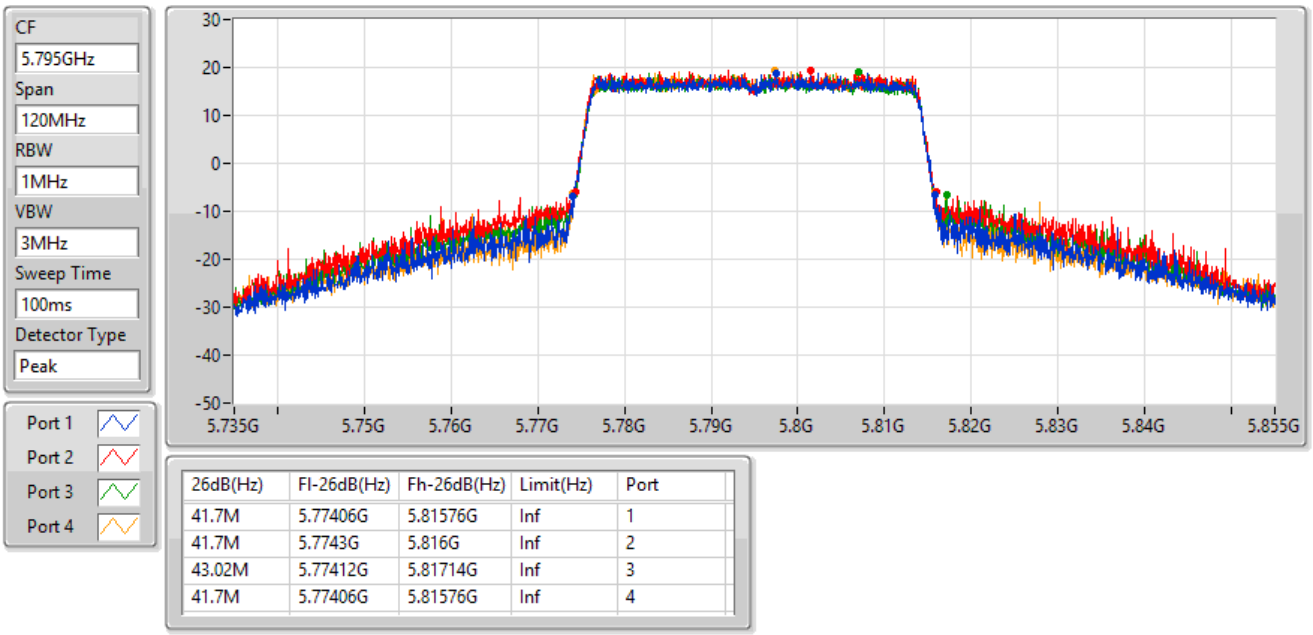


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
37.74M	5.7761G	5.81384G	38.005M	5.775997G	5.814002G	500k	1
37.2M	5.77622G	5.81342G	38.088M	5.775924G	5.814012G	500k	2
37.5M	5.77616G	5.81366G	38.046M	5.775972G	5.814018G	500k	3
37.56M	5.77616G	5.81372G	37.974M	5.775966G	5.81394G	500k	4

802.11ax HEW40-BF_Nss1,(MCS0)_4TX EBW

5795MHz

22/09/2022

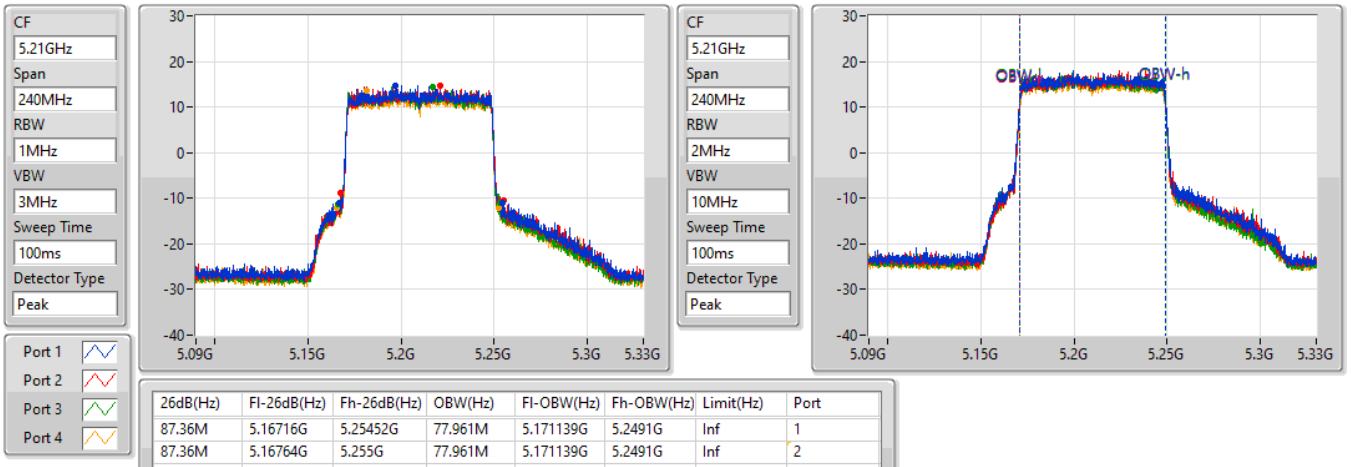


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	Limit(Hz)	Port
41.7M	5.77406G	5.81576G	Inf	1
41.7M	5.7743G	5.816G	Inf	2
43.02M	5.77412G	5.81714G	Inf	3
41.7M	5.77406G	5.81576G	Inf	4

802.11ax HEW80-BF_Nss1,(MCS0)_4TX EBW

5210MHz

29/09/2022

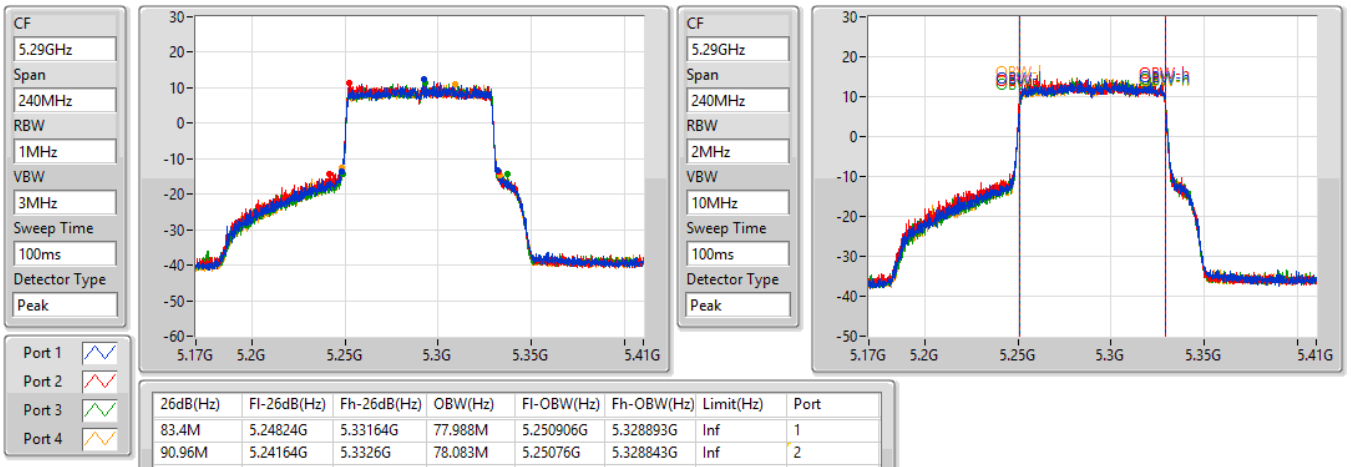


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
87.36M	5.16716G	5.25452G	77.961M	5.171139G	5.2491G	Inf	1
87.36M	5.16764G	5.255G	77.961M	5.171139G	5.2491G	Inf	2
86.88M	5.16608G	5.25296G	77.961M	5.171019G	5.248981G	Inf	3
86.76M	5.16572G	5.25248G	77.841M	5.171139G	5.248981G	Inf	4

802.11ax HEW80-BF_Nss1,(MCS0)_4TX EBW

5290MHz

22/09/2022

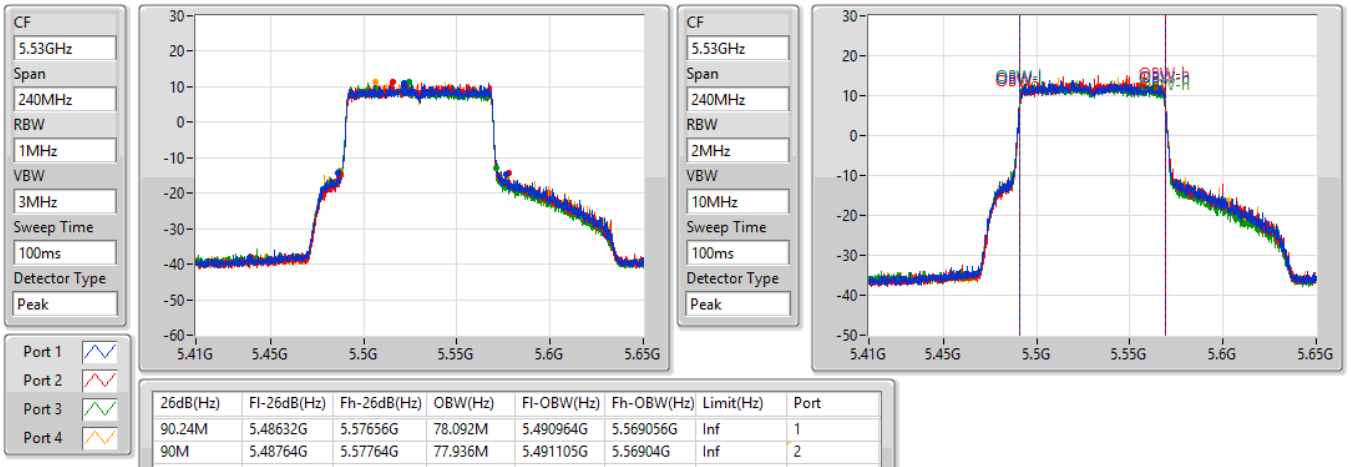


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
83.4M	5.24824G	5.33164G	77.988M	5.250906G	5.328893G	Inf	1
90.96M	5.24164G	5.3326G	78.083M	5.25076G	5.328843G	Inf	2
88.08M	5.24872G	5.3368G	77.89M	5.251041G	5.32893G	Inf	3
85.32M	5.248G	5.33332G	77.958M	5.250983G	5.328941G	Inf	4

802.11ax HEW80-BF_Nss1,(MCS0)_4TX EBW

5530MHz

22/09/2022

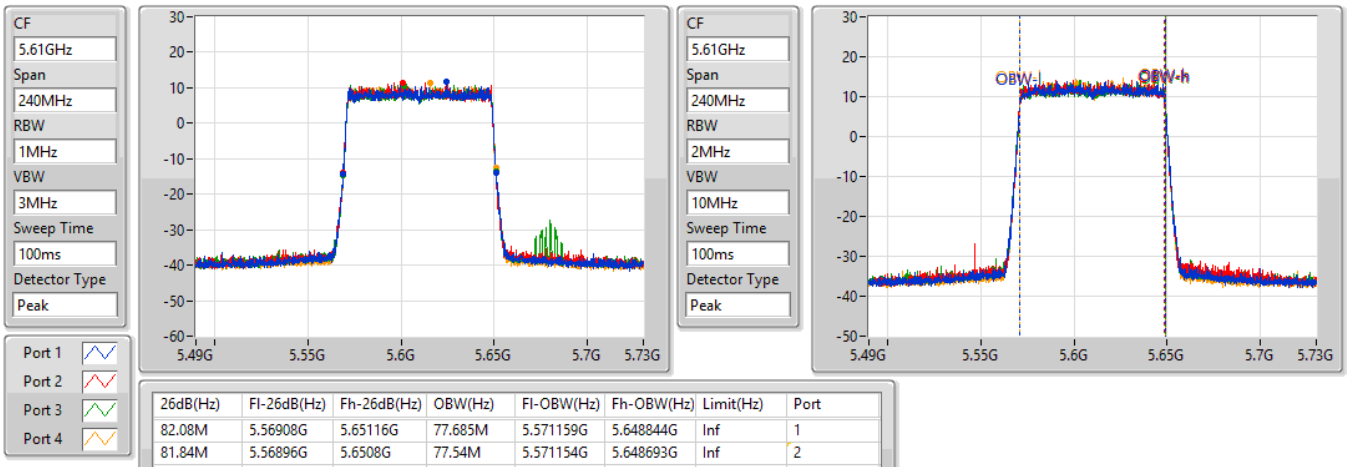


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
90.24M	5.48632G	5.57656G	78.092M	5.490964G	5.569056G	Inf	1
90M	5.48764G	5.57764G	77.936M	5.491105G	5.56904G	Inf	2
83.88M	5.48704G	5.57092G	77.997M	5.490953G	5.568951G	Inf	3
89.52M	5.48728G	5.5768G	77.956M	5.491134G	5.56909G	Inf	4

802.11ax HEW80-BF_Nss1,(MCS0)_4TX EBW

5610MHz

22/09/2022

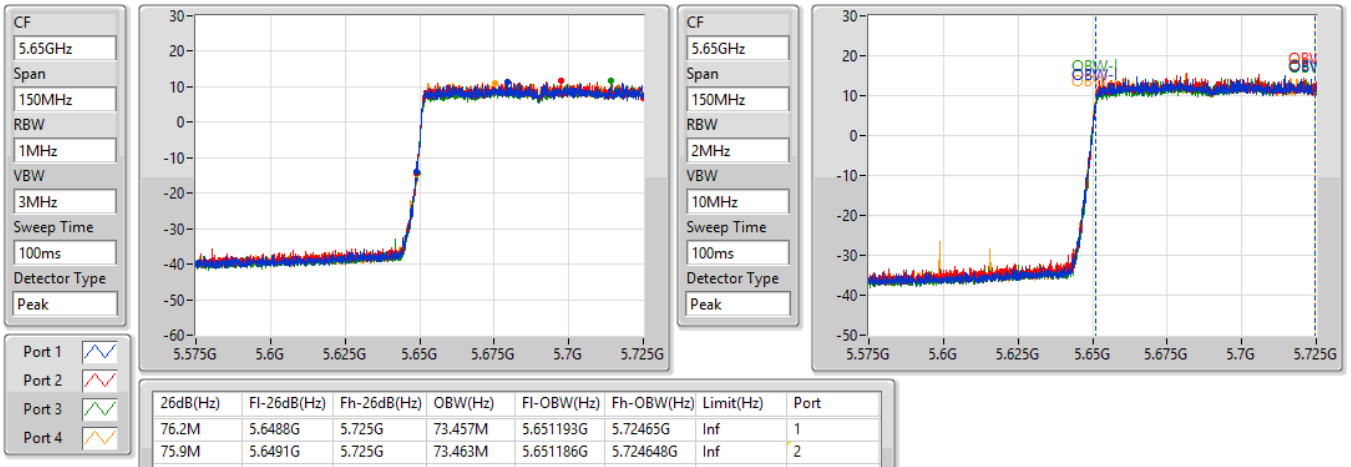


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
82.08M	5.56908G	5.65116G	77.685M	5.571159G	5.648844G	Inf	1
81.84M	5.56896G	5.6508G	77.54M	5.571154G	5.648693G	Inf	2
81.96M	5.56896G	5.65092G	77.71M	5.57118G	5.64889G	Inf	3
81.72M	5.56908G	5.6508G	77.657M	5.571165G	5.648822G	Inf	4

802.11ax HEW80-BF_Nss1,(MCS0)_4TX EBW

5690MHz Straddle 5.47-5.725GHz

23/09/2022

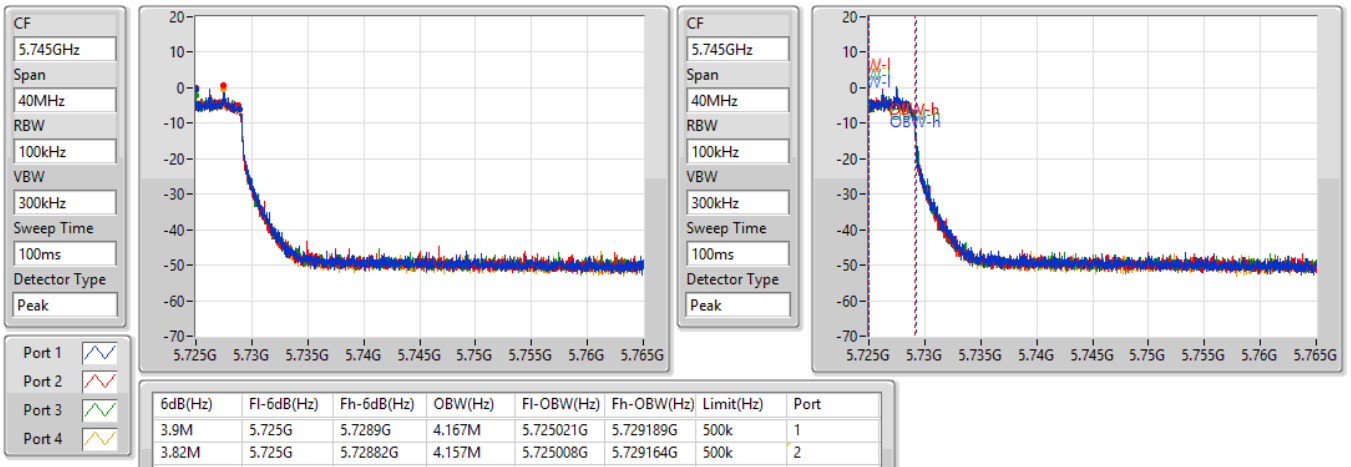


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
76.2M	5.6488G	5.725G	73.457M	5.651193G	5.72465G	Inf	1
75.9M	5.6491G	5.725G	73.463M	5.651186G	5.724648G	Inf	2
75.75M	5.64925G	5.725G	73.444M	5.651143G	5.724587G	Inf	3
75.975M	5.649025G	5.725G	73.483M	5.651067G	5.72455G	Inf	4

802.11ax HEW80-BF_Nss1,(MCS0)_4TX EBW

5690MHz Straddle 5.725-5.85GHz

23/09/2022

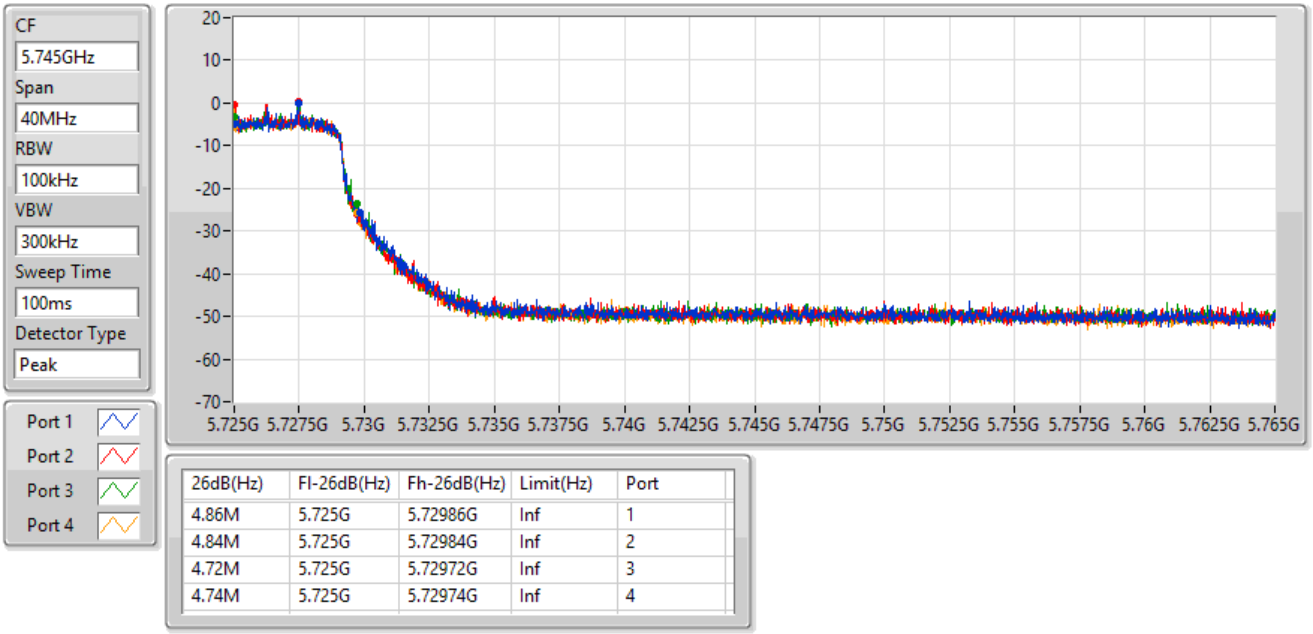


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
3.9M	5.725G	5.7289G	4.167M	5.725021G	5.729189G	500k	1
3.82M	5.725G	5.72882G	4.157M	5.725008G	5.729164G	500k	2
3.74M	5.72504G	5.72878G	4.174M	5.725015G	5.729189G	500k	3
3.9M	5.725G	5.7289G	4.157M	5.725021G	5.729178G	500k	4

802.11ax HEW80-BF_Nss1,(MCS0)_4TX EBW

5690MHz Straddle 5.725-5.85GHz

23/09/2022

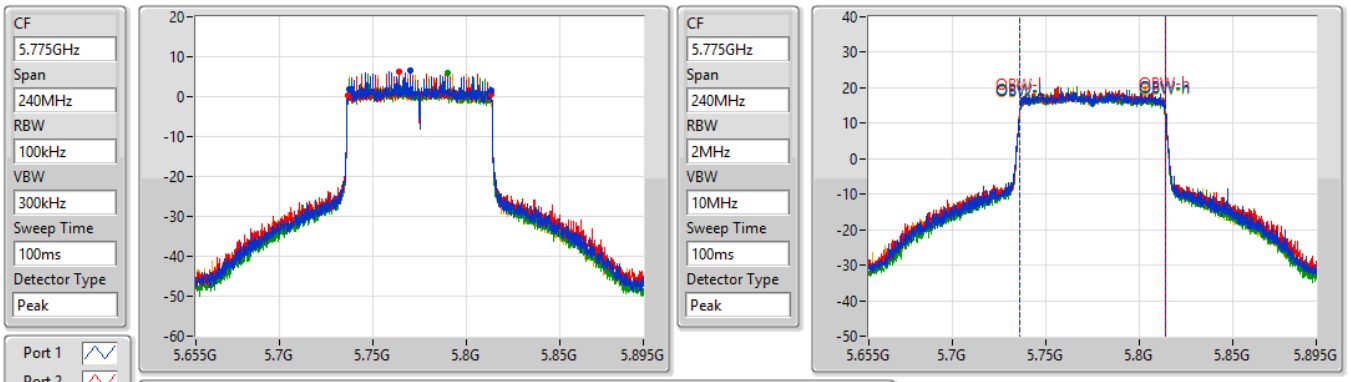


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	Limit(Hz)	Port
4.86M	5.725G	5.72986G	Inf	1
4.84M	5.725G	5.72984G	Inf	2
4.72M	5.725G	5.72972G	Inf	3
4.74M	5.725G	5.72974G	Inf	4

802.11ax HEW80-BF_Nss1,(MCS0)_4TX EBW

5775MHz

23/09/2022



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
76.44M	5.73708G	5.81352G	77.962M	5.736015G	5.813977G	500k	1
76.92M	5.73624G	5.81316G	77.95M	5.736039G	5.813989G	500k	2
76.56M	5.73684G	5.8134G	77.893M	5.73606G	5.813954G	500k	3
77.28M	5.73624G	5.81352G	77.938M	5.735915G	5.813853G	500k	4

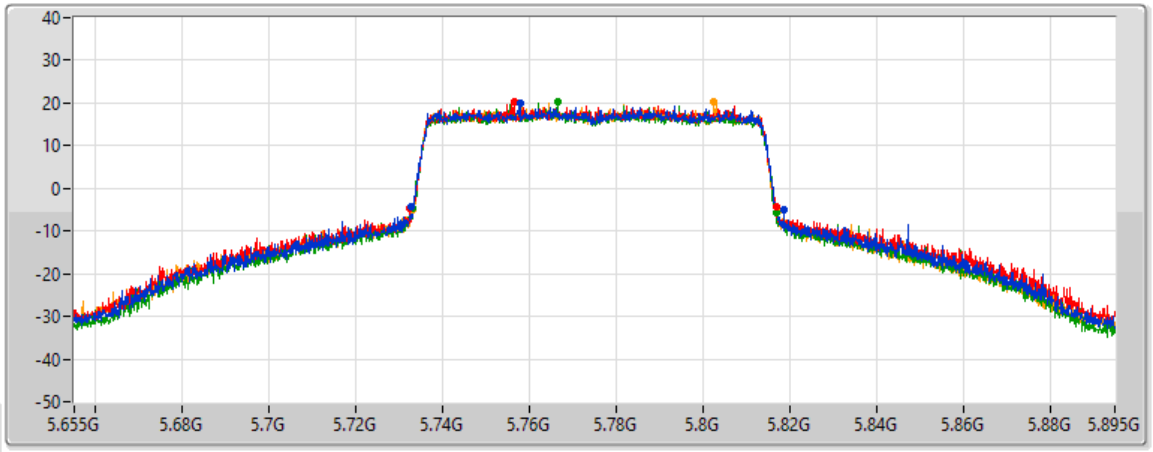
802.11ax HEW80-BF_Nss1,(MCS0)_4TX EBW

5775MHz

23/09/2022

CF 5.775GHz
Span 240MHz
RBW 2MHz
VBW 10MHz
Sweep Time 100ms
Detector Type Peak

Port 1
Port 2
Port 3
Port 4



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	Limit(Hz)	Port
85.92M	5.73276G	5.81868G	Inf	1
84.48M	5.73252G	5.817G	Inf	2
83.76M	5.73312G	5.81688G	Inf	3
84.24M	5.733G	5.81724G	Inf	4

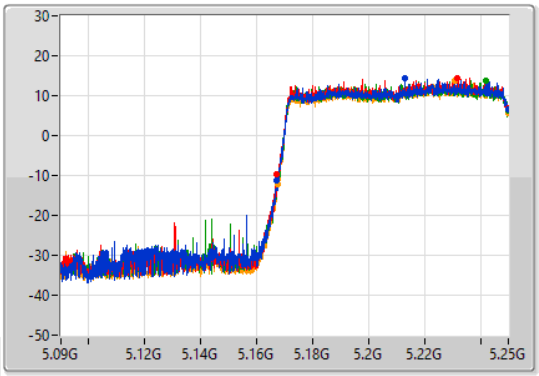
802.11ax HEW160-BF_Nss1,(MCS0)_4TX EBW

5250MHz Straddle 5.15-5.25GHz

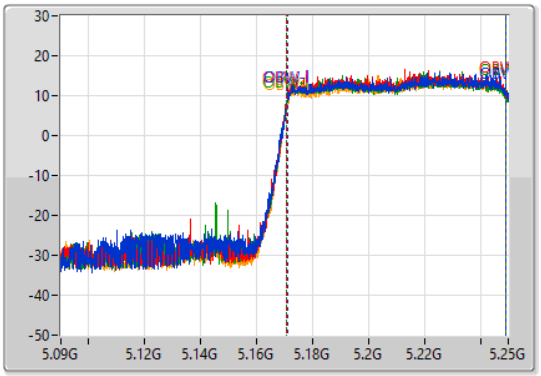
23/09/2022

CF 5.17GHz
Span 160MHz
RBW 2MHz
VBW 10MHz
Sweep Time 100ms
Detector Type Peak

Port 1
Port 2
Port 3
Port 4



CF 5.17GHz
Span 160MHz
RBW 3MHz
VBW 10MHz
Sweep Time 100ms
Detector Type Peak

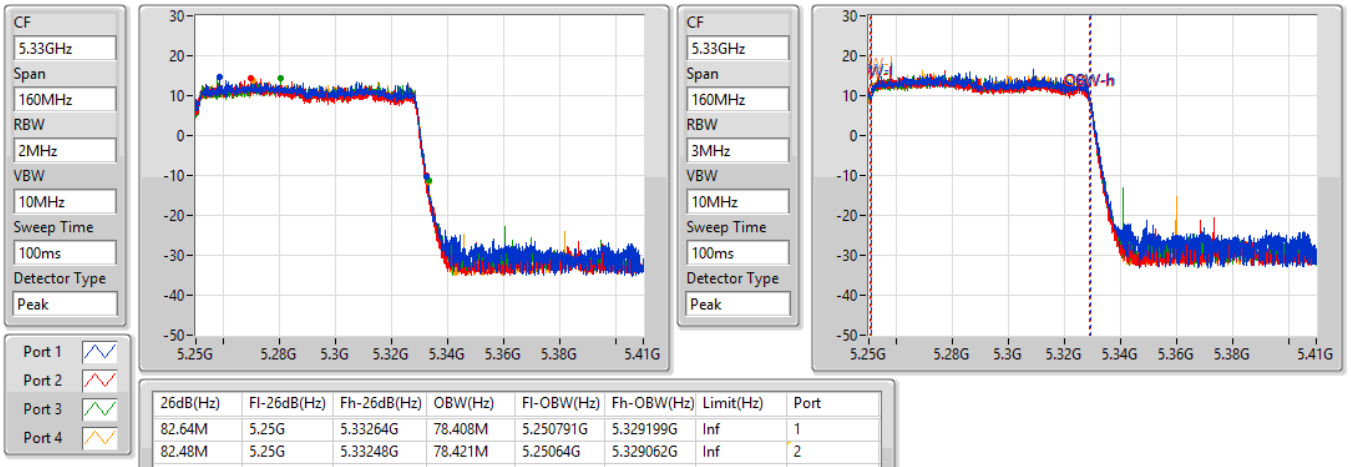


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
83.04M	5.16696G	5.25G	78.414M	5.170891G	5.249305G	Inf	1
82.8M	5.1672G	5.25G	78.355M	5.170879G	5.249235G	Inf	2
82.72M	5.16728G	5.25G	78.398M	5.170788G	5.249186G	Inf	3
82.4M	5.1676G	5.25G	78.278M	5.170981G	5.249259G	Inf	4

802.11ax HEW160-BF_Nss1,(MCS0)_4TX EBW

5250MHz Straddle 5.25-5.35GHz

23/09/2022

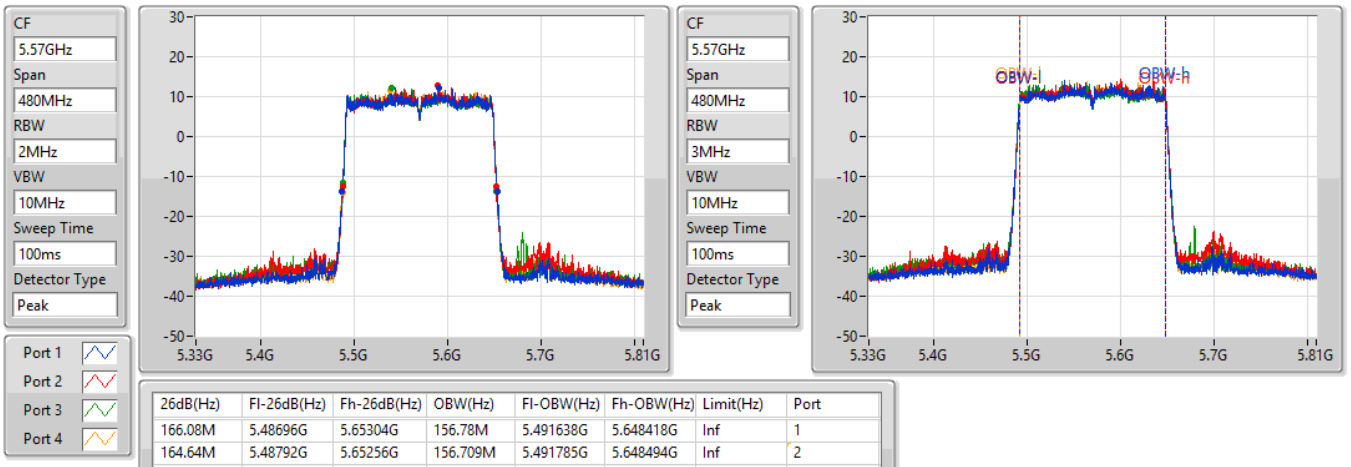


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
82.64M	5.25G	5.33264G	78.408M	5.250791G	5.329199G	Inf	1
82.48M	5.25G	5.33248G	78.421M	5.25064G	5.329062G	Inf	2
83.2M	5.25G	5.3332G	78.337M	5.250819G	5.329157G	Inf	3
83.12M	5.25G	5.33312G	78.371M	5.250851G	5.329222G	Inf	4

802.11ax HEW160-BF_Nss1,(MCS0)_4TX EBW

5570MHz

23/09/2022



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
166.08M	5.48696G	5.65304G	156.78M	5.491638G	5.648418G	Inf	1
164.64M	5.48792G	5.65256G	156.709M	5.491785G	5.648494G	Inf	2
165.12M	5.48744G	5.65256G	156.91M	5.491399G	5.648309G	Inf	3
165.12M	5.48744G	5.65256G	156.66M	5.491688G	5.648348G	Inf	4

Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.15-5.25GHz	-	-	-	-	-
802.11ax HEW20-BF_Nss2,(MCS0)_4TX	36.27M	19.497M	19M5D1D	28.35M	19.287M
802.11ax HEW40-BF_Nss2,(MCS0)_4TX	45.18M	38.233M	38M2D1D	40.56M	38.051M
802.11ax HEW80-BF_Nss2,(MCS0)_4TX	86.52M	77.957M	78M0D1D	83.64M	77.784M
802.11ax HEW160-BF_Nss2,(MCS0)_4TX	83.04M	78.552M	78M6D1D	82.24M	78.324M
5.25-5.35GHz	-	-	-	-	-
802.11ax HEW20-BF_Nss2,(MCS0)_4TX	27.27M	19.259M	19M3D1D	21.51M	19.099M
802.11ax HEW40-BF_Nss2,(MCS0)_4TX	51.54M	38.213M	38M2D1D	40.38M	37.889M
802.11ax HEW80-BF_Nss2,(MCS0)_4TX	85.56M	78.038M	78M0D1D	82.56M	77.868M
802.11ax HEW160-BF_Nss2,(MCS0)_4TX	82.88M	78.488M	78M5D1D	82.4M	78.291M
5.47-5.725GHz	-	-	-	-	-
802.11ax HEW20-BF_Nss2,(MCS0)_4TX	27.21M	19.272M	19M3D1D	15.735M	14.571M
802.11ax HEW40-BF_Nss2,(MCS0)_4TX	48.96M	38.196M	38M2D1D	35.28M	33.837M
802.11ax HEW80-BF_Nss2,(MCS0)_4TX	92.64M	78.045M	78M0D1D	75.825M	73.384M
802.11ax HEW160-BF_Nss2,(MCS0)_4TX	165.36M	157.264M	157MD1D	164.88M	156.567M
5.725-5.85GHz	-	-	-	-	-
802.11ax HEW20-BF_Nss2,(MCS0)_4TX	18.99M	19.256M	19M3D1D	4.44M	4.662M
802.11ax HEW40-BF_Nss2,(MCS0)_4TX	37.68M	38.245M	38M2D1D	3.78M	4.11M
802.11ax HEW80-BF_Nss2,(MCS0)_4TX	77.04M	77.96M	78M0D1D	3.7M	4.127M

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

Result

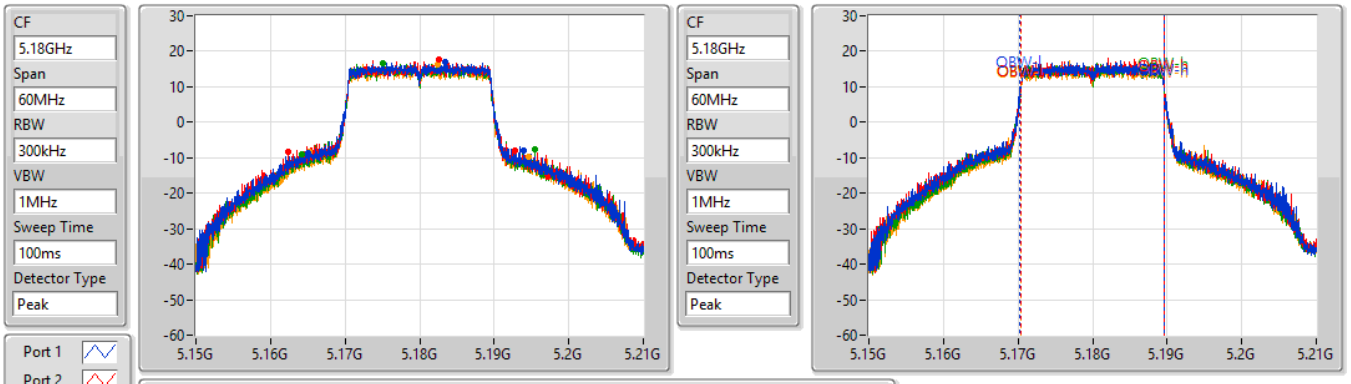
Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)	Port 3-N dB (Hz)	Port 3-OBW (Hz)	Port 4-N dB (Hz)	Port 4-OBW (Hz)
802.11ax HEW20-BF_Nss2,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	Inf	29.04M	19.339M	30.33M	19.287M	31.32M	19.292M	29.34M	19.297M
5200MHz	Pass	Inf	31.59M	19.326M	30.36M	19.433M	30.39M	19.318M	33.81M	19.338M
5240MHz	Pass	Inf	36.27M	19.497M	31.53M	19.369M	28.35M	19.306M	30.9M	19.293M
5260MHz	Pass	Inf	21.81M	19.132M	21.78M	19.118M	21.51M	19.127M	21.54M	19.099M
5300MHz	Pass	Inf	21.75M	19.148M	21.69M	19.12M	21.81M	19.141M	21.81M	19.119M
5320MHz	Pass	Inf	27.27M	19.259M	23.7M	19.256M	22.89M	19.207M	23.97M	19.255M
5500MHz	Pass	Inf	27.21M	19.249M	23.94M	19.258M	22.2M	19.272M	22.68M	19.272M
5580MHz	Pass	Inf	21.75M	19.111M	21.6M	19.096M	21.9M	19.152M	21.42M	19.089M
5700MHz	Pass	Inf	21.63M	19.101M	21.54M	19.133M	21.69M	19.14M	21.75M	19.09M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	15.84M	14.571M	15.825M	14.586M	15.735M	14.574M	15.84M	14.573M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	4.44M	4.7M	4.44M	4.665M	4.48M	4.662M	4.46M	4.675M
5745MHz	Pass	500k	18.72M	19.248M	18.6M	19.238M	18.87M	19.256M	18.81M	19.218M
5785MHz	Pass	500k	18.99M	19.15M	18.87M	19.201M	18.96M	19.199M	18.9M	19.117M
5825MHz	Pass	500k	18.9M	19.21M	18.9M	19.239M	18.93M	19.208M	18.93M	19.154M
802.11ax HEW40-BF_Nss2,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	Inf	43.02M	38.194M	43.56M	38.156M	45.18M	38.233M	43.68M	38.18M
5230MHz	Pass	Inf	40.74M	38.103M	40.56M	38.114M	40.68M	38.112M	40.56M	38.051M
5270MHz	Pass	Inf	40.68M	37.958M	40.74M	37.889M	40.86M	37.962M	40.38M	37.919M
5310MHz	Pass	Inf	47.16M	38.213M	43.14M	38.198M	51.54M	38.142M	44.64M	38.16M
5510MHz	Pass	Inf	48.96M	38.196M	42.78M	38.118M	45.54M	38.185M	44.4M	38.142M
5550MHz	Pass	Inf	40.86M	37.882M	40.56M	37.921M	40.68M	37.977M	40.56M	37.972M
5670MHz	Pass	Inf	40.44M	37.952M	40.68M	37.936M	40.56M	37.98M	40.38M	37.96M
5710MHz Straddle 5.47-5.725GHz	Pass	Inf	35.455M	33.899M	35.455M	33.885M	35.315M	33.863M	35.28M	33.837M
5710MHz Straddle 5.725-5.85GHz	Pass	500k	3.92M	4.13M	3.78M	4.126M	3.84M	4.11M	3.88M	4.116M
5755MHz	Pass	500k	37.44M	38.143M	37.2M	38.151M	37.5M	38.155M	37.62M	38.044M
5795MHz	Pass	500k	37.62M	38.108M	37.68M	38.245M	37.68M	38.162M	37.62M	38.03M
802.11ax HEW80-BF_Nss2,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	Inf	83.88M	77.813M	86.52M	77.784M	83.64M	77.957M	83.64M	77.903M
5290MHz	Pass	Inf	82.56M	77.896M	83.64M	78.038M	85.56M	77.994M	83.16M	77.868M
5530MHz	Pass	Inf	86.52M	78.025M	83.52M	77.887M	86.28M	78.045M	92.64M	78.026M
5610MHz	Pass	Inf	82.32M	77.603M	81.96M	77.578M	81.96M	77.789M	81.36M	77.596M
5690MHz Straddle 5.47-5.725GHz	Pass	Inf	75.975M	73.533M	75.825M	73.384M	76.05M	73.489M	76.05M	73.593M
5690MHz Straddle 5.725-5.85GHz	Pass	500k	3.74M	4.154M	3.82M	4.138M	3.84M	4.127M	3.7M	4.157M
5775MHz	Pass	500k	77.04M	77.946M	76.56M	77.909M	76.92M	77.919M	76.56M	77.96M
802.11ax HEW160-BF_Nss2,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	Inf	82.48M	78.552M	82.8M	78.408M	83.04M	78.45M	82.24M	78.324M
5250MHz Straddle 5.25-5.35GHz	Pass	Inf	82.8M	78.488M	82.4M	78.404M	82.88M	78.441M	82.48M	78.291M
5570MHz	Pass	Inf	165.12M	156.697M	165.36M	156.567M	164.88M	157.264M	165.12M	156.595M

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

802.11ax HEW20-BF_Nss2,(MCS0)_4TX EBW

5180MHz

23/09/2022

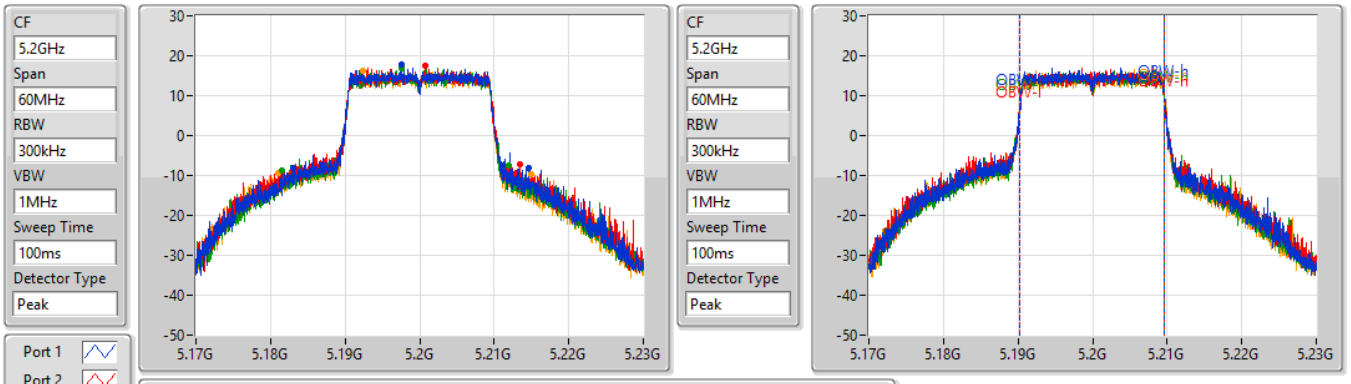


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
29.04M	5.16497G	5.19401G	19.339M	5.170294G	5.189633G	Inf	1
30.33M	5.16242G	5.19275G	19.287M	5.170328G	5.189615G	Inf	2
31.32M	5.16413G	5.19545G	19.292M	5.170325G	5.189617G	Inf	3
29.34M	5.16521G	5.19455G	19.297M	5.17033G	5.189628G	Inf	4

802.11ax HEW20-BF_Nss2,(MCS0)_4TX EBW

5200MHz

23/09/2022

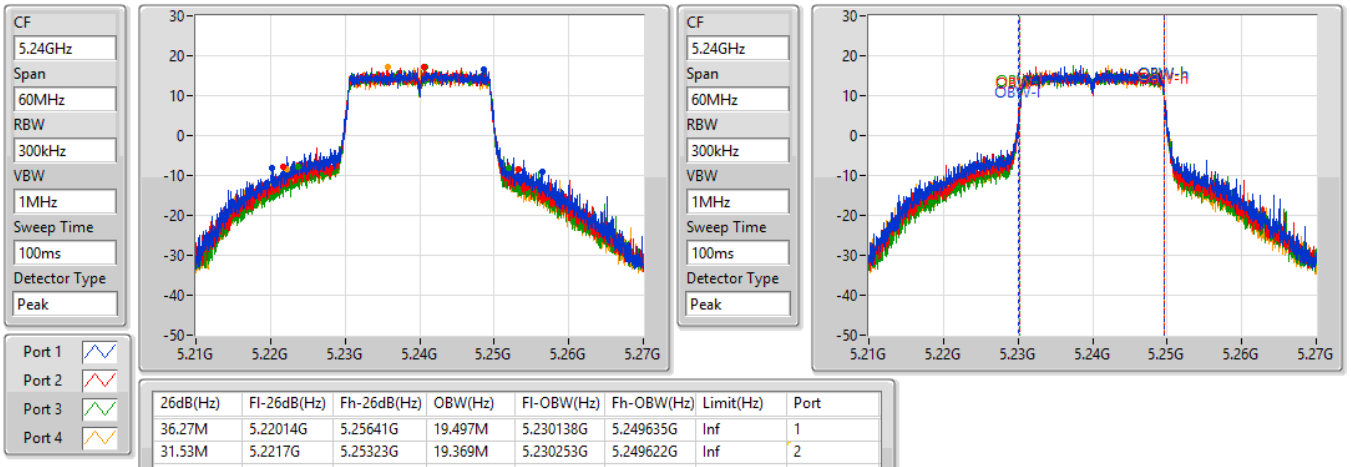


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
31.59M	5.18311G	5.2147G	19.326M	5.190272G	5.209597G	Inf	1
30.36M	5.18314G	5.2135G	19.433M	5.190213G	5.209646G	Inf	2
30.39M	5.18149G	5.21188G	19.318M	5.190293G	5.209611G	Inf	3
33.81M	5.18107G	5.21488G	19.338M	5.190257G	5.209595G	Inf	4

802.11ax HEW20-BF_Nss2,(MCS0)_4TX EBW

5240MHz

23/09/2022

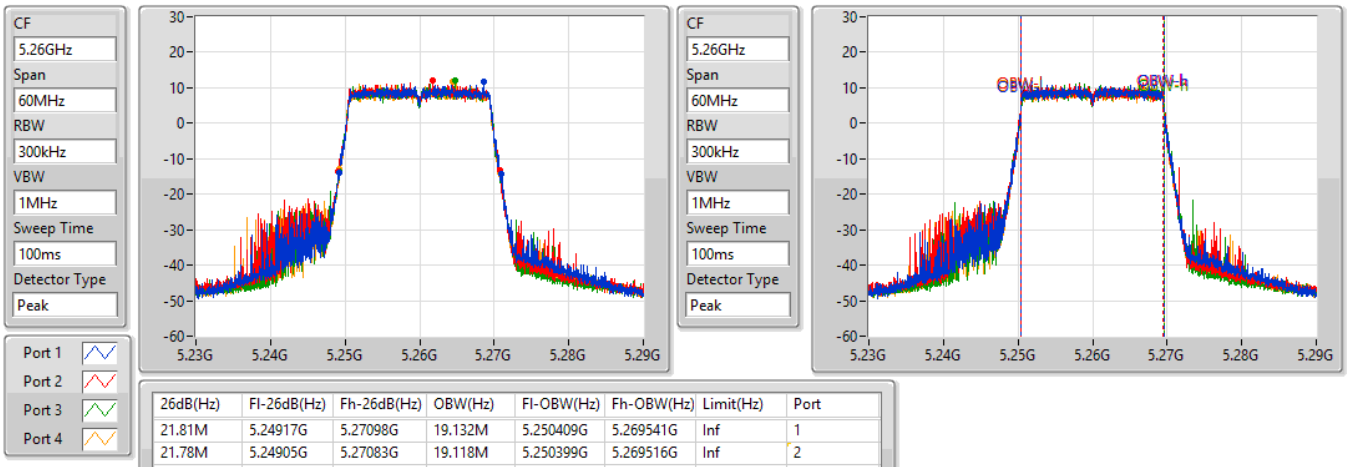


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
36.27M	5.22014G	5.25641G	19.497M	5.230138G	5.249635G	Inf	1
31.53M	5.2217G	5.25323G	19.369M	5.230253G	5.249622G	Inf	2
28.35M	5.22365G	5.252G	19.306M	5.230296G	5.249601G	Inf	3
30.9M	5.22224G	5.25314G	19.293M	5.230284G	5.249577G	Inf	4

802.11ax HEW20-BF_Nss2,(MCS0)_4TX EBW

5260MHz

23/09/2022

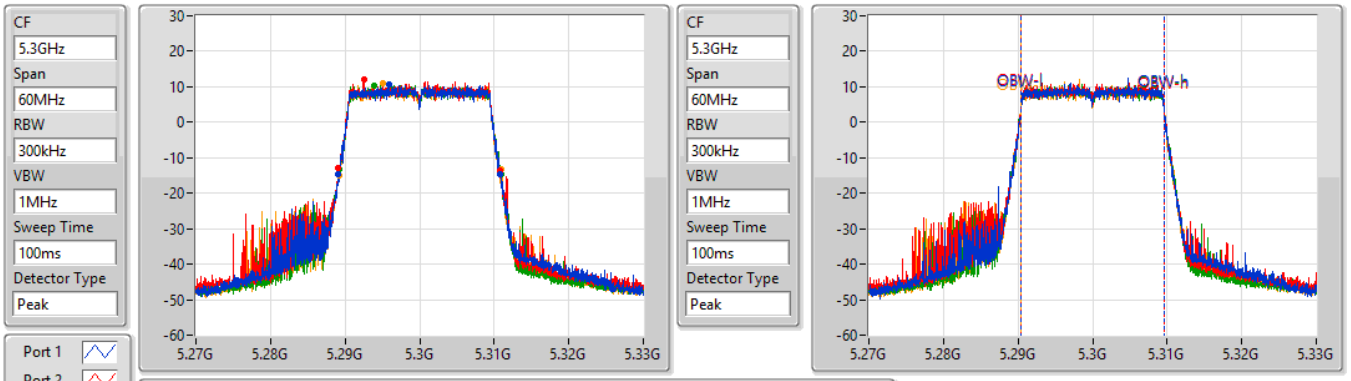


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
21.81M	5.24917G	5.27098G	19.132M	5.250409G	5.269541G	Inf	1
21.78M	5.24905G	5.27083G	19.118M	5.250399G	5.269516G	Inf	2
21.51M	5.24923G	5.27074G	19.127M	5.250424G	5.269551G	Inf	3
21.54M	5.2492G	5.27074G	19.099M	5.250441G	5.26954G	Inf	4

802.11ax HEW20-BF_Nss2,(MCS0)_4TX EBW

5300MHz

23/09/2022

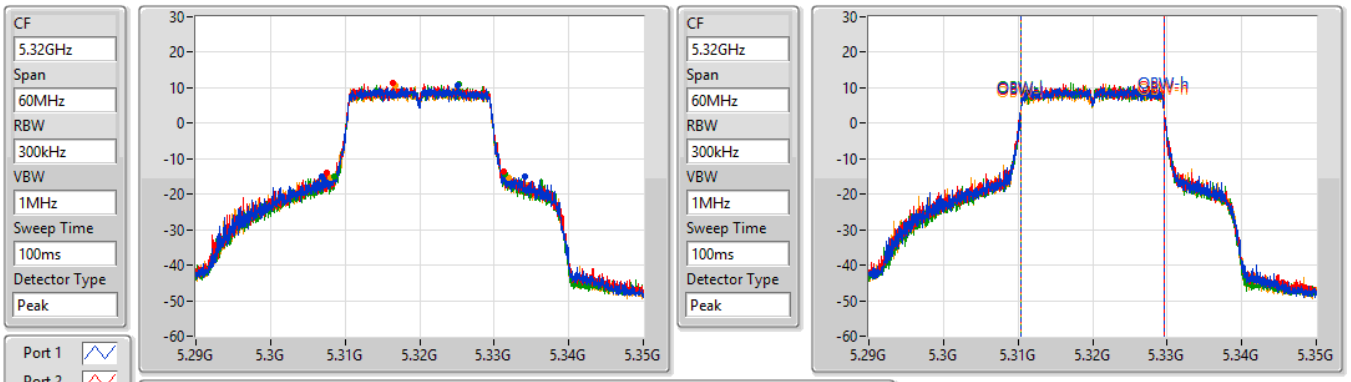


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
21.75M	5.28911G	5.31086G	19.148M	5.290419G	5.309566G	Inf	1
21.69M	5.28911G	5.3108G	19.12M	5.290424G	5.309544G	Inf	2
21.81M	5.28917G	5.31098G	19.141M	5.29041G	5.309551G	Inf	3
21.81M	5.28914G	5.31095G	19.119M	5.290419G	5.309538G	Inf	4

802.11ax HEW20-BF_Nss2,(MCS0)_4TX EBW

5320MHz

23/09/2022

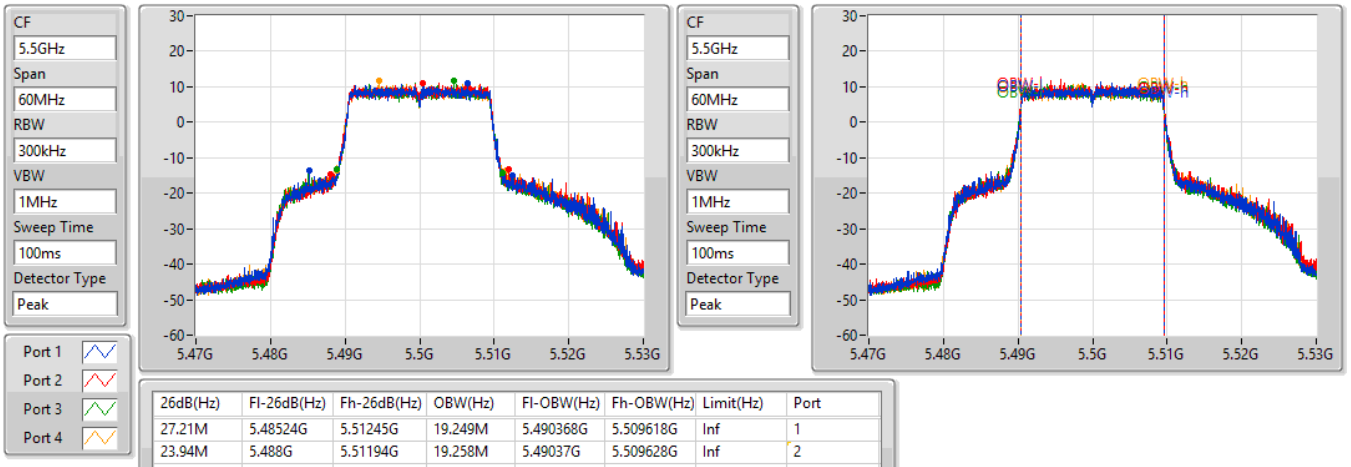


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
27.27M	5.30689G	5.33416G	19.259M	5.310344G	5.329603G	Inf	1
23.7M	5.30758G	5.33128G	19.256M	5.310319G	5.329575G	Inf	2
22.89M	5.3086G	5.33149G	19.207M	5.310391G	5.329599G	Inf	3
23.97M	5.308G	5.33197G	19.255M	5.310343G	5.329598G	Inf	4

802.11ax HEW20-BF_Nss2,(MCS0)_4TX EBW

5500MHz

23/09/2022

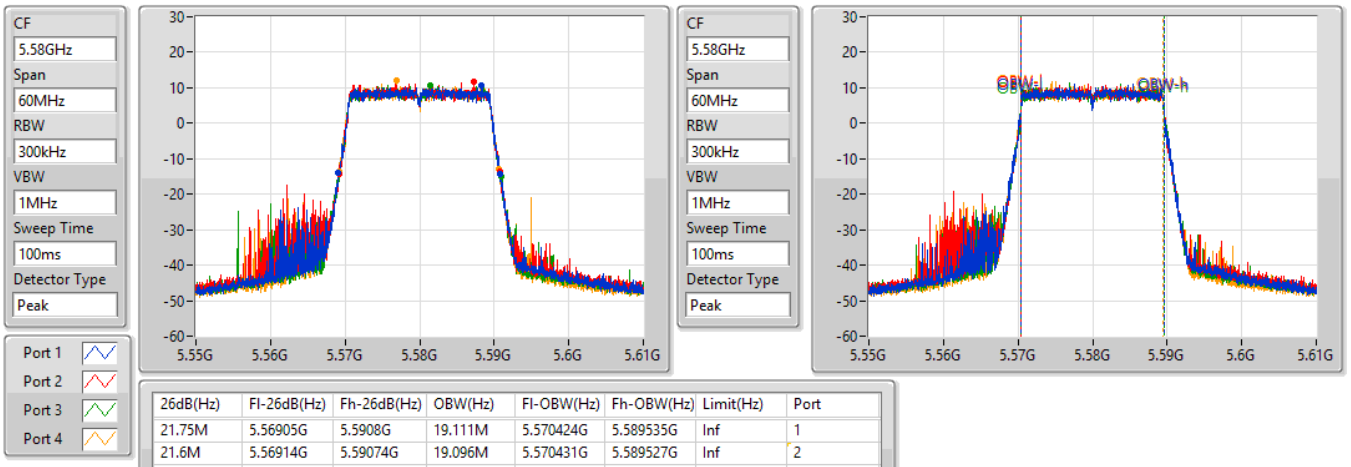


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
27.21M	5.48524G	5.51245G	19.249M	5.490368G	5.509618G	Inf	1
23.94M	5.488G	5.51194G	19.258M	5.49037G	5.509628G	Inf	2
22.2M	5.48887G	5.51107G	19.272M	5.4903458G	5.509616G	Inf	3
22.68M	5.48887G	5.51155G	19.272M	5.490358G	5.509629G	Inf	4

802.11ax HEW20-BF_Nss2,(MCS0)_4TX EBW

5580MHz

23/09/2022

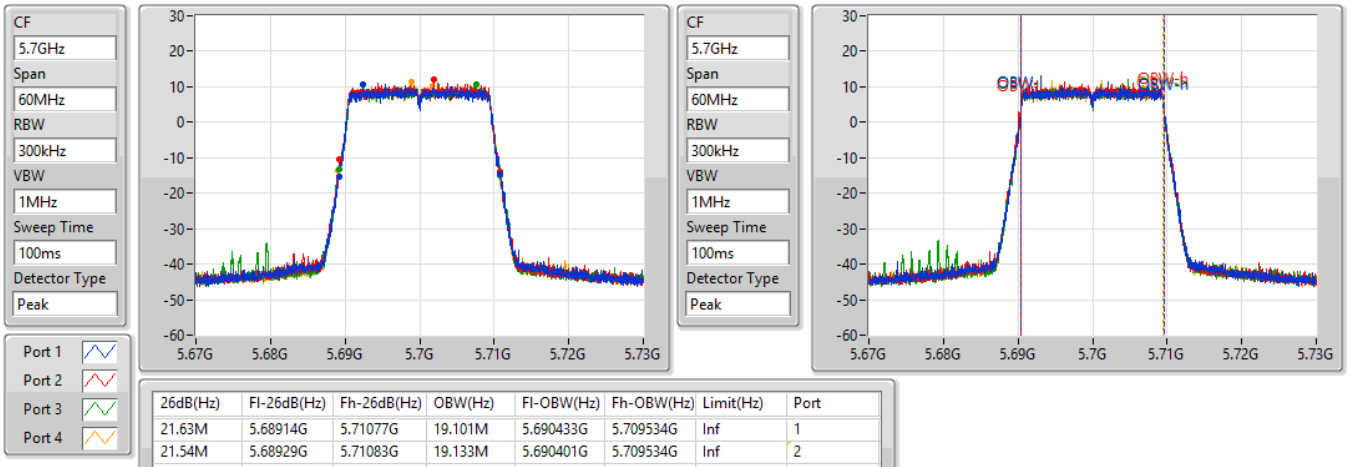


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
21.75M	5.56905G	5.5908G	19.111M	5.570424G	5.589535G	Inf	1
21.6M	5.56914G	5.59074G	19.096M	5.570431G	5.589527G	Inf	2
21.9M	5.56902G	5.59092G	19.152M	5.570407G	5.589559G	Inf	3
21.42M	5.56926G	5.59068G	19.089M	5.570425G	5.589514G	Inf	4

802.11ax HEW20-BF_Nss2,(MCS0)_4TX EBW

5700MHz

23/09/2022

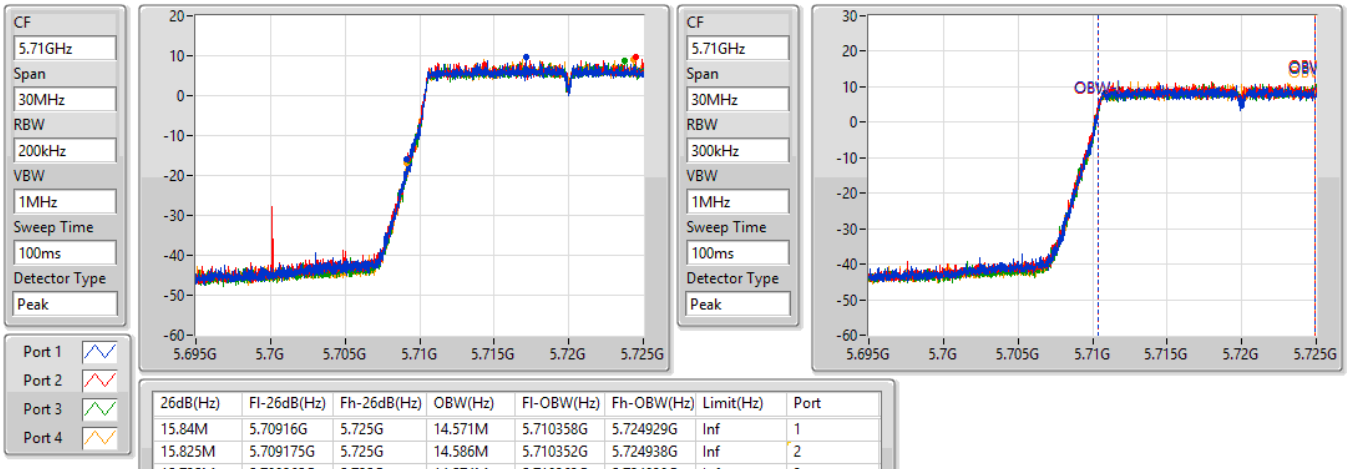


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
21.63M	5.68914G	5.71077G	19.101M	5.690433G	5.709534G	Inf	1
21.54M	5.68929G	5.71083G	19.133M	5.690401G	5.709534G	Inf	2
21.69M	5.68914G	5.71083G	19.14M	5.690417G	5.709557G	Inf	3
21.75M	5.68905G	5.7108G	19.09M	5.690421G	5.709511G	Inf	4

802.11ax HEW20-BF_Nss2,(MCS0)_4TX EBW

5720MHz Straddle 5.47-5.725GHz

23/09/2022

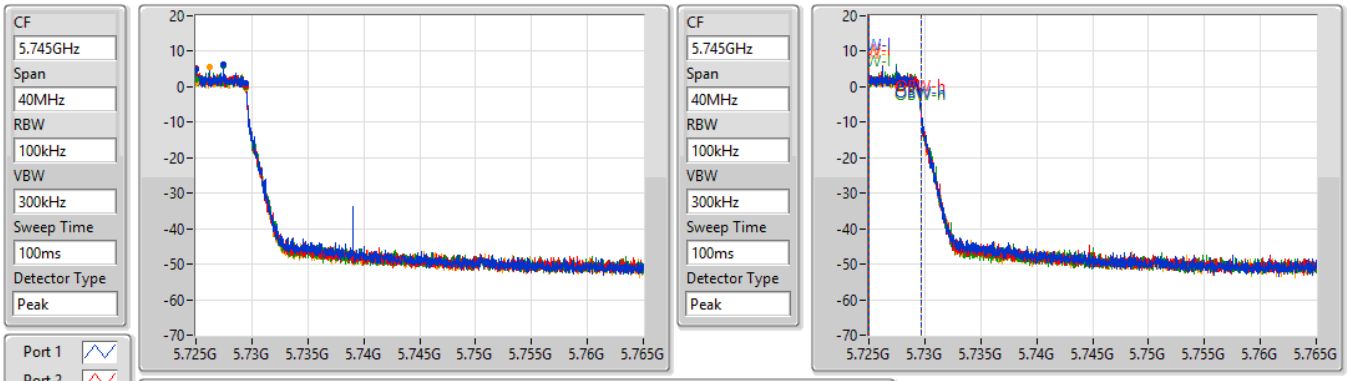


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
15.84M	5.70916G	5.725G	14.571M	5.710358G	5.724929G	Inf	1
15.825M	5.709175G	5.725G	14.586M	5.710352G	5.724938G	Inf	2
15.735M	5.709265G	5.725G	14.574M	5.710363G	5.724938G	Inf	3
15.84M	5.70916G	5.725G	14.573M	5.710352G	5.724926G	Inf	4

802.11ax HEW20-BF_Nss2,(MCS0)_4TX EBW

5720MHz Straddle 5.725-5.85GHz

23/09/2022

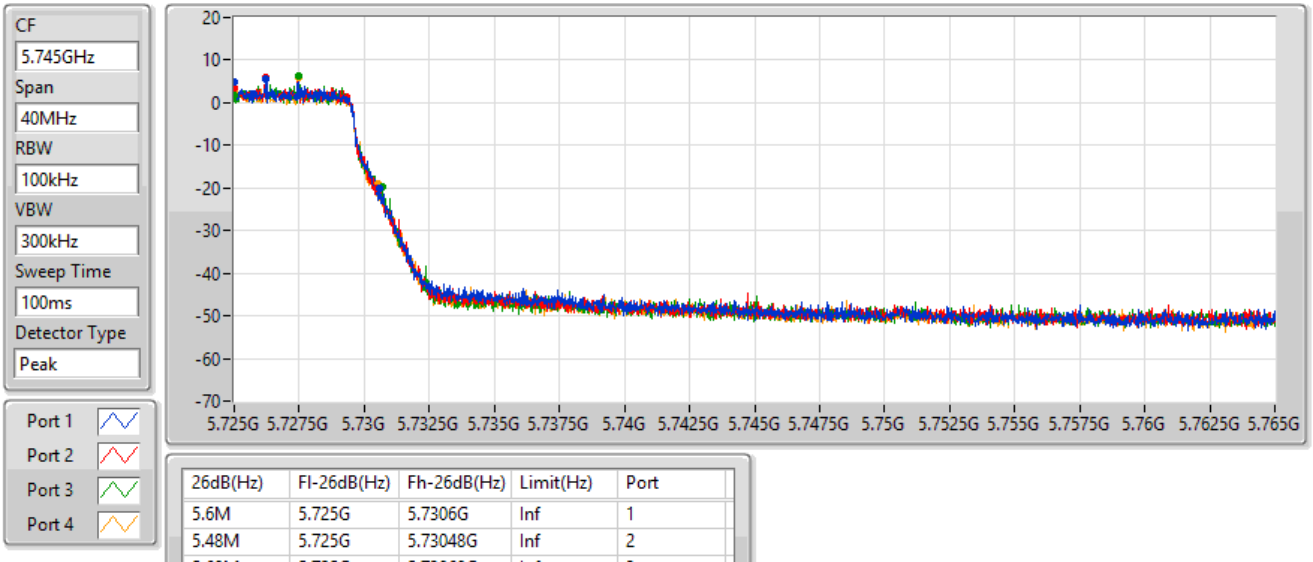


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
4.44M	5.725G	5.72944G	4.7M	5.725011G	5.729711G	500k	1
4.44M	5.725G	5.72944G	4.665M	5.725016G	5.729681G	500k	2
4.48M	5.725G	5.72948G	4.662M	5.725025G	5.729687G	500k	3
4.46M	5.725G	5.72946G	4.675M	5.725018G	5.729692G	500k	4

802.11ax HEW20-BF_Nss2,(MCS0)_4TX EBW

5720MHz Straddle 5.725-5.85GHz

23/09/2022

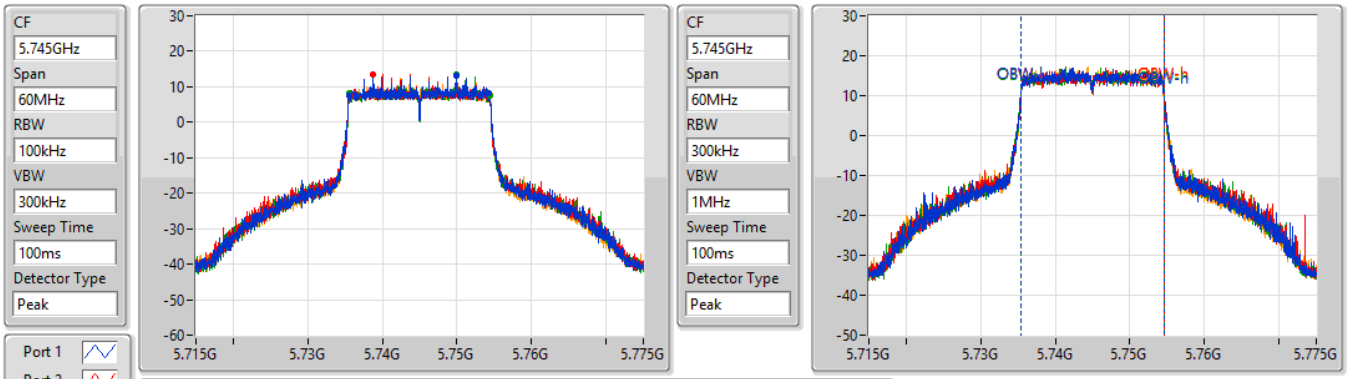


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	Limit(Hz)	Port
5.6M	5.725G	5.7306G	Inf	1
5.48M	5.725G	5.73048G	Inf	2
5.68M	5.725G	5.73068G	Inf	3
5.52M	5.725G	5.73052G	Inf	4

802.11ax HEW20-BF_Nss2,(MCS0)_4TX EBW

5745MHz

23/09/2022

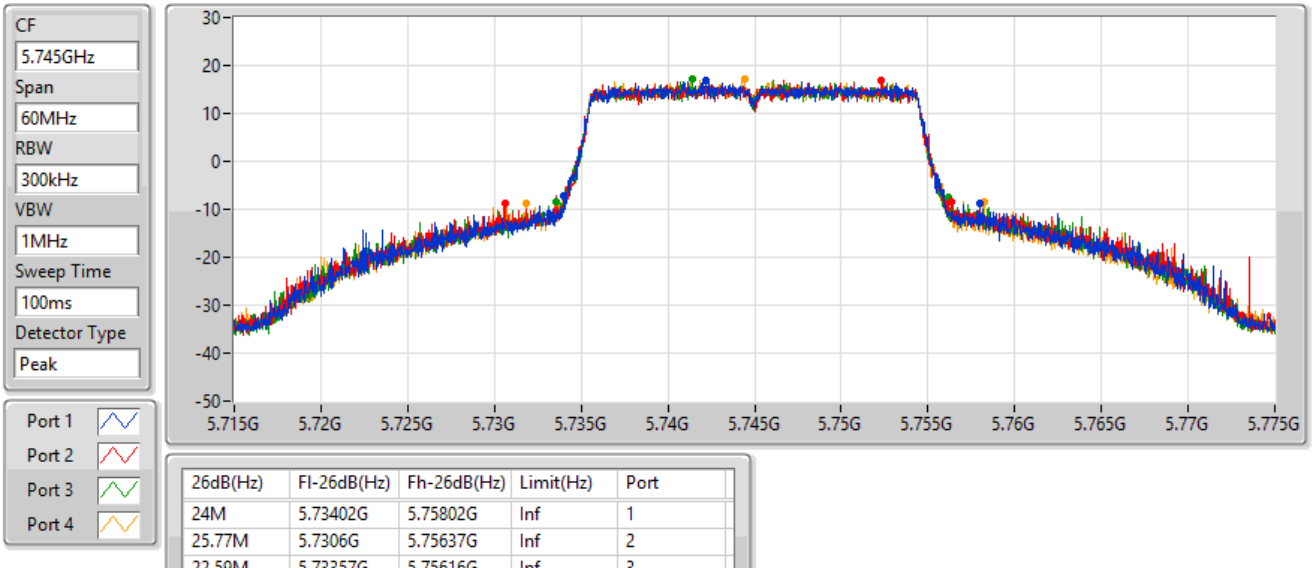


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
18.72M	5.73561G	5.75433G	19.248M	5.735369G	5.754616G	500k	1
18.6M	5.73567G	5.75427G	19.238M	5.735371G	5.75461G	500k	2
18.87M	5.73555G	5.75442G	19.256M	5.735366G	5.754622G	500k	3
18.81M	5.73561G	5.75442G	19.218M	5.735368G	5.754586G	500k	4

802.11ax HEW20-BF_Nss2,(MCS0)_4TX EBW

5745MHz

23/09/2022

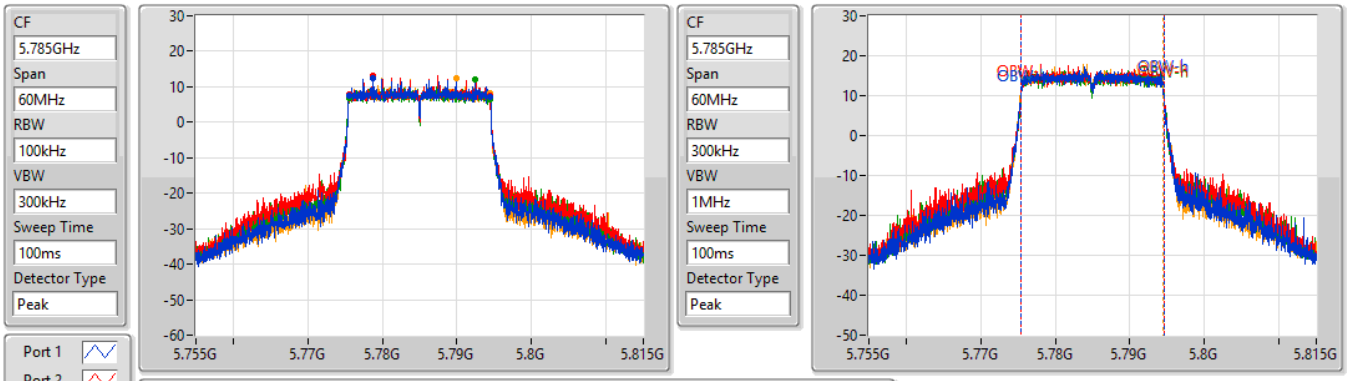


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	Limit(Hz)	Port
24M	5.73402G	5.75802G	Inf	1
25.77M	5.7306G	5.75637G	Inf	2
22.59M	5.73357G	5.75616G	Inf	3
26.43M	5.7318G	5.75823G	Inf	4

802.11ax HEW20-BF_Nss2,(MCS0)_4TX EBW

5785MHz

23/09/2022

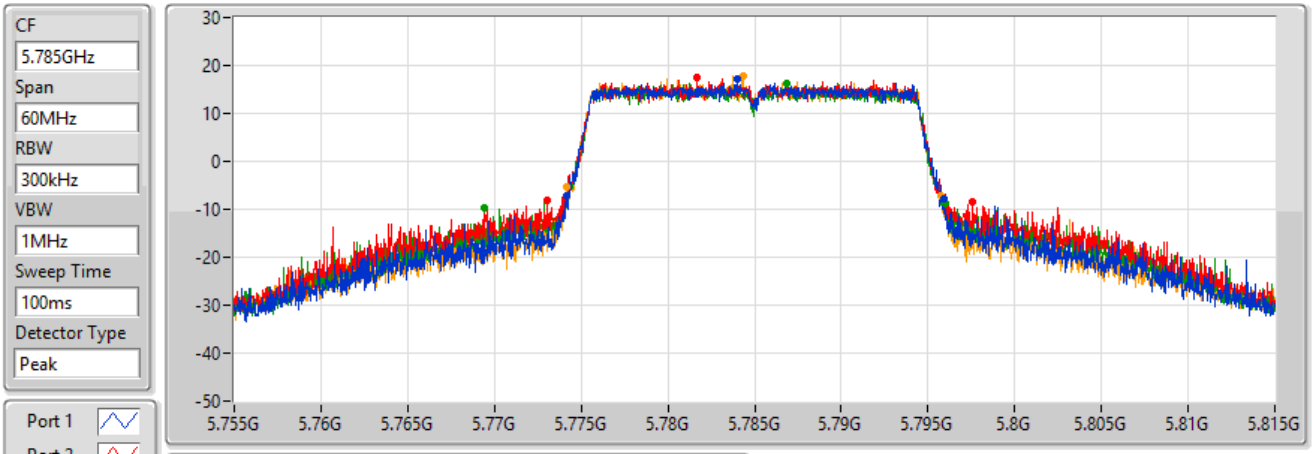


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
18.99M	5.77552G	5.79451G	19.15M	5.775396G	5.794546G	500k	1
18.87M	5.77555G	5.79442G	19.201M	5.775379G	5.79458G	500k	2
18.96M	5.77552G	5.79448G	19.199M	5.775379G	5.794578G	500k	3
18.9M	5.77552G	5.79442G	19.117M	5.775401G	5.794518G	500k	4

802.11ax HEW20-BF_Nss2,(MCS0)_4TX EBW

5785MHz

23/09/2022

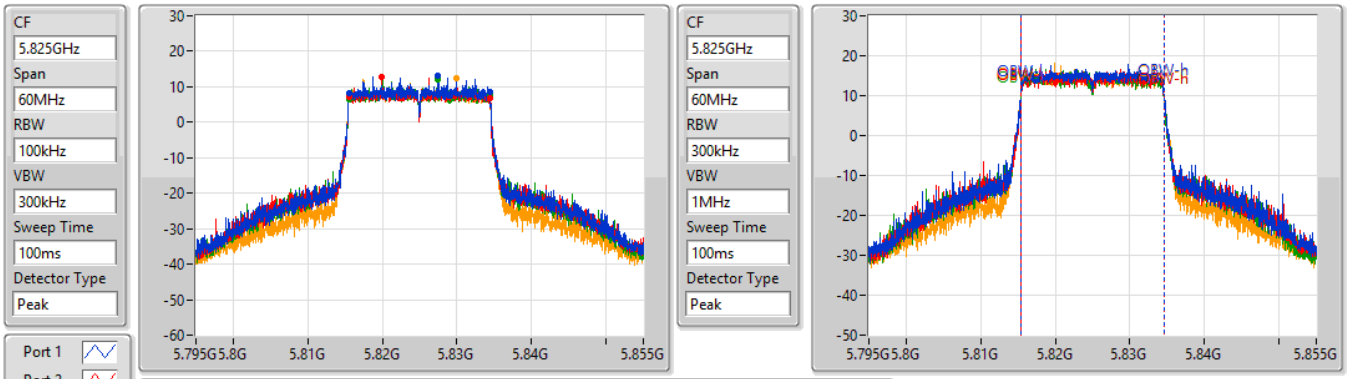


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	Limit(Hz)	Port
21.78M	5.77414G	5.79592G	Inf	1
24.54M	5.77306G	5.7976G	Inf	2
26.58M	5.76946G	5.79604G	Inf	3
21.57M	5.77414G	5.79571G	Inf	4

802.11ax HEW20-BF_Nss2,(MCS0)_4TX EBW

5825MHz

23/09/2022

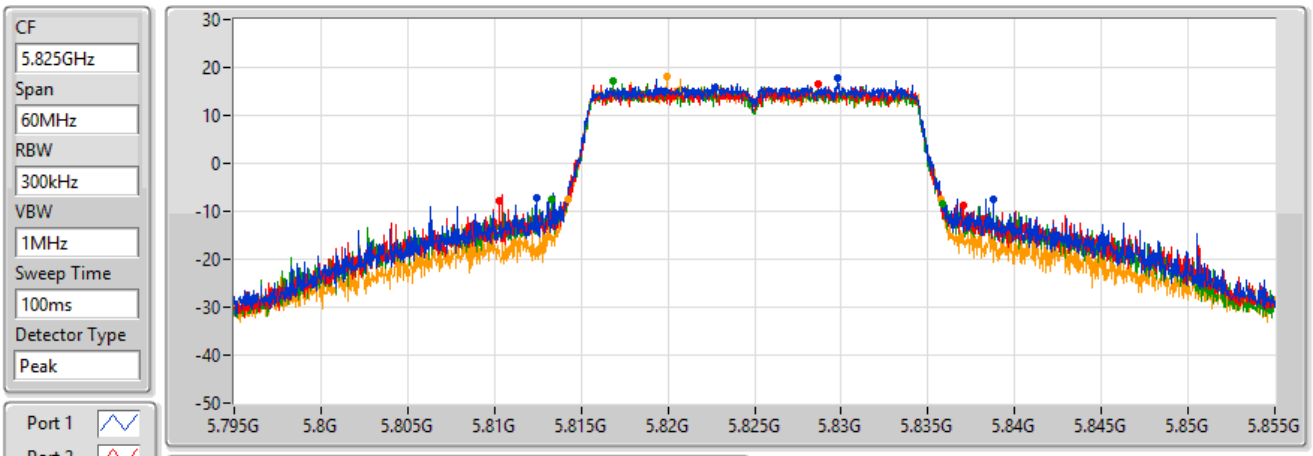


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
18.9M	5.81552G	5.83442G	19.21M	5.815363G	5.834573G	500k	1
18.9M	5.81552G	5.83442G	19.239M	5.815358G	5.834597G	500k	2
18.93M	5.81549G	5.83442G	19.208M	5.815365G	5.834573G	500k	3
18.93M	5.81552G	5.83445G	19.154M	5.815397G	5.834551G	500k	4

802.11ax HEW20-BF_Nss2,(MCS0)_4TX EBW

5825MHz

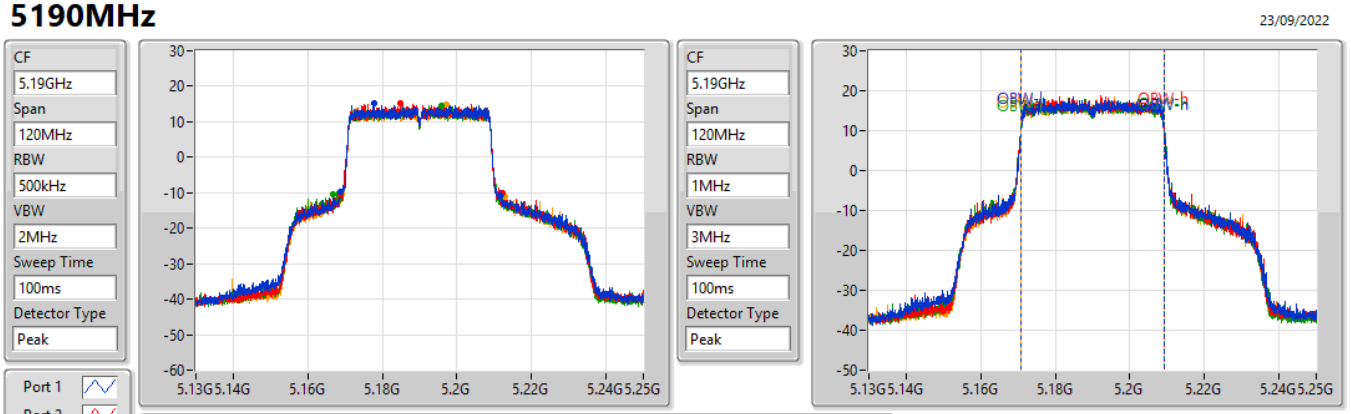
23/09/2022



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	Limit(Hz)	Port
26.28M	5.81246G	5.83874G	Inf	1
26.7M	5.8103G	5.837G	Inf	2
22.5M	5.8133G	5.8358G	Inf	3
21.45M	5.81426G	5.83571G	Inf	4

802.11ax HEW40-BF_Nss2,(MCS0)_4TX EBW

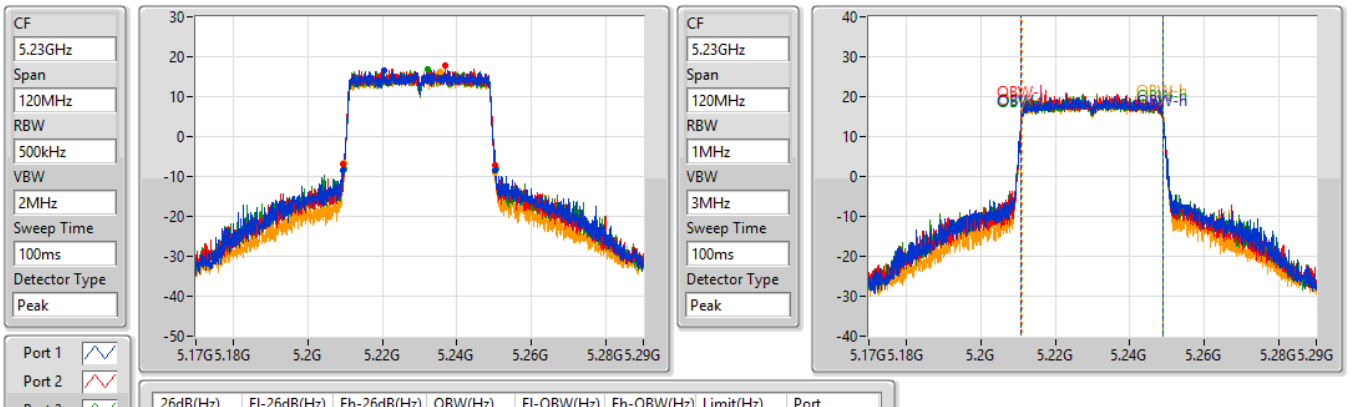
5190MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
43.02M	5.16864G	5.21166G	38.194M	5.170896G	5.20909G	Inf	1
43.56M	5.1687G	5.21226G	38.156M	5.170929G	5.209085G	Inf	2
45.18M	5.16672G	5.2119G	38.233M	5.170885G	5.209118G	Inf	3
43.68M	5.16906G	5.21274G	38.18M	5.170916G	5.209096G	Inf	4

802.11ax HEW40-BF_Nss2,(MCS0)_4TX EBW

5230MHz

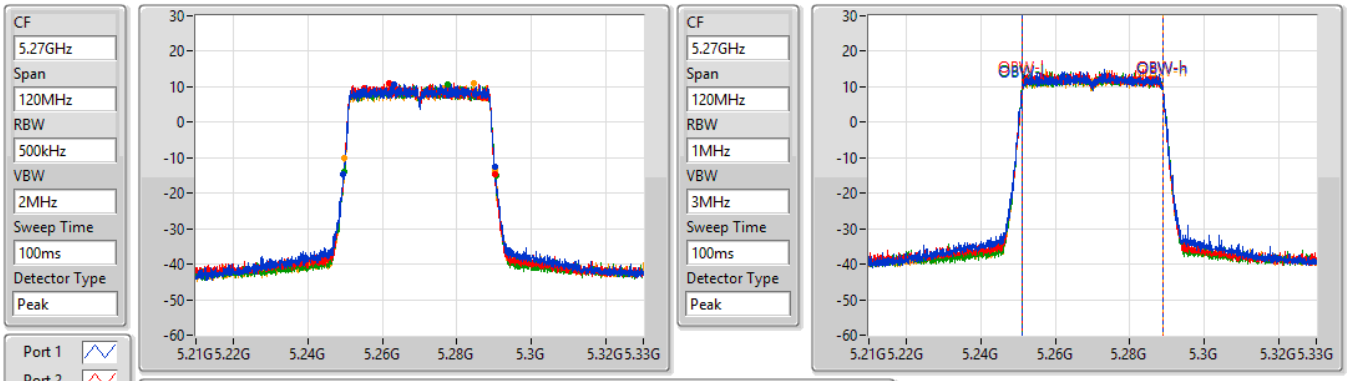


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
40.74M	5.2096G	5.25034G	38.103M	5.210933G	5.249036G	Inf	1
40.56M	5.2096G	5.25016G	38.114M	5.210886G	5.249001G	Inf	2
40.68M	5.20972G	5.2504G	38.112M	5.21091G	5.249023G	Inf	3
40.56M	5.20972G	5.25028G	38.051M	5.210967G	5.249018G	Inf	4

802.11ax HEW40-BF_Nss2,(MCS0)_4TX EBW

5270MHz

23/09/2022

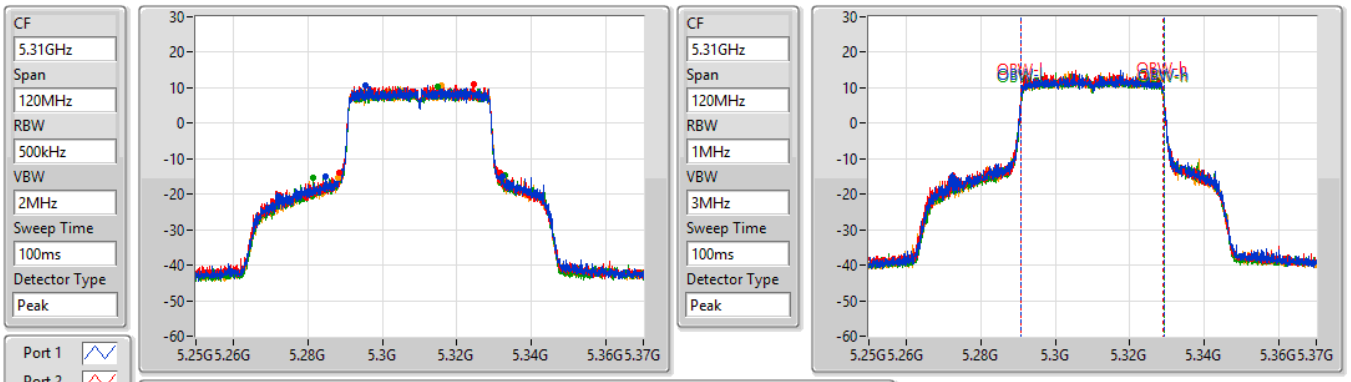


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
40.68M	5.2496G	5.29028G	37.958M	5.251009G	5.288967G	Inf	1
40.74M	5.24948G	5.29022G	37.889M	5.251008G	5.288898G	Inf	2
40.86M	5.24966G	5.29052G	37.962M	5.250999G	5.28896G	Inf	3
40.38M	5.2499G	5.29028G	37.919M	5.251017G	5.288936G	Inf	4

802.11ax HEW40-BF_Nss2,(MCS0)_4TX EBW

5310MHz

23/09/2022

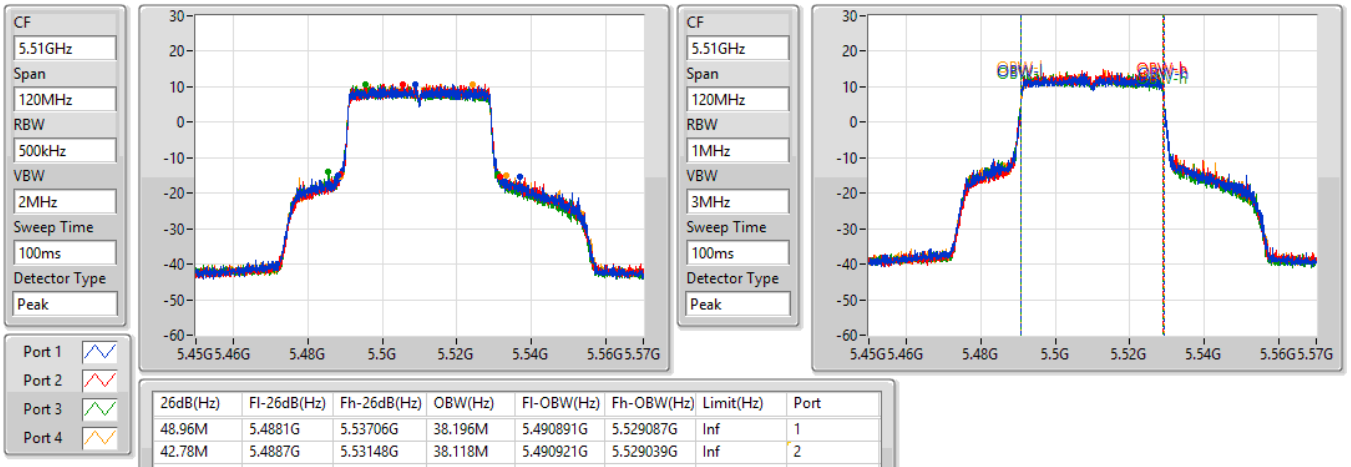


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
47.16M	5.28492G	5.33208G	38.213M	5.29086G	5.329073G	Inf	1
43.14M	5.28834G	5.33148G	38.198M	5.290845G	5.329043G	Inf	2
51.54M	5.28138G	5.33292G	38.142M	5.290913G	5.329056G	Inf	3
44.64M	5.28804G	5.33268G	38.16M	5.290893G	5.329053G	Inf	4

802.11ax HEW40-BF_Nss2,(MCS0)_4TX EBW

5510MHz

23/09/2022

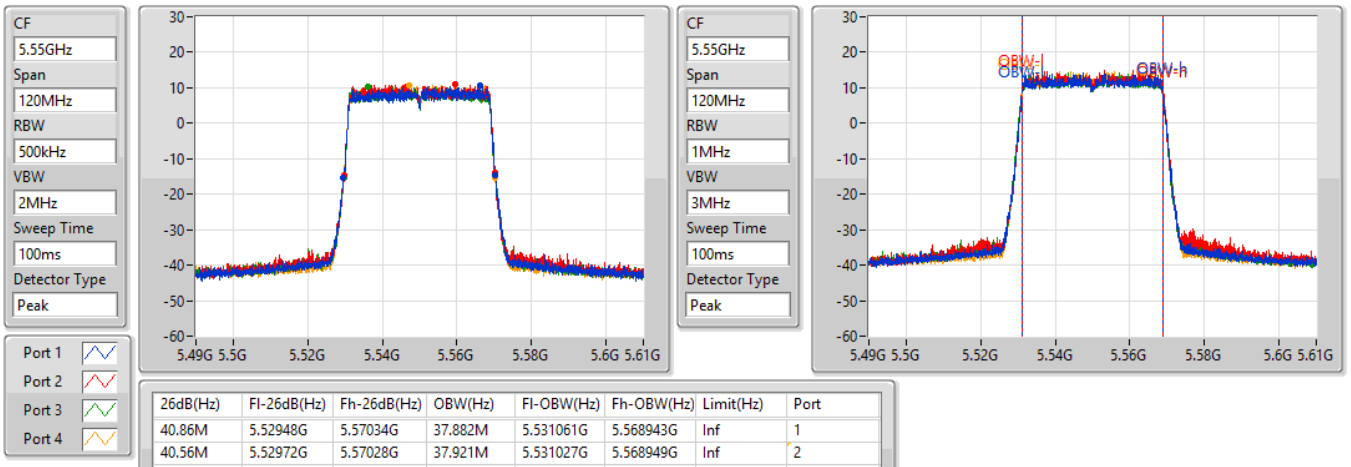


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
48.96M	5.4881G	5.53706G	38.196M	5.490891G	5.529087G	Inf	1
42.78M	5.4887G	5.53148G	38.118M	5.490921G	5.529039G	Inf	2
45.54M	5.485546G	5.531G	38.185M	5.490861G	5.529046G	Inf	3
44.4M	5.4887G	5.5331G	38.142M	5.490939G	5.529081G	Inf	4

802.11ax HEW40-BF_Nss2,(MCS0)_4TX EBW

5550MHz

23/09/2022

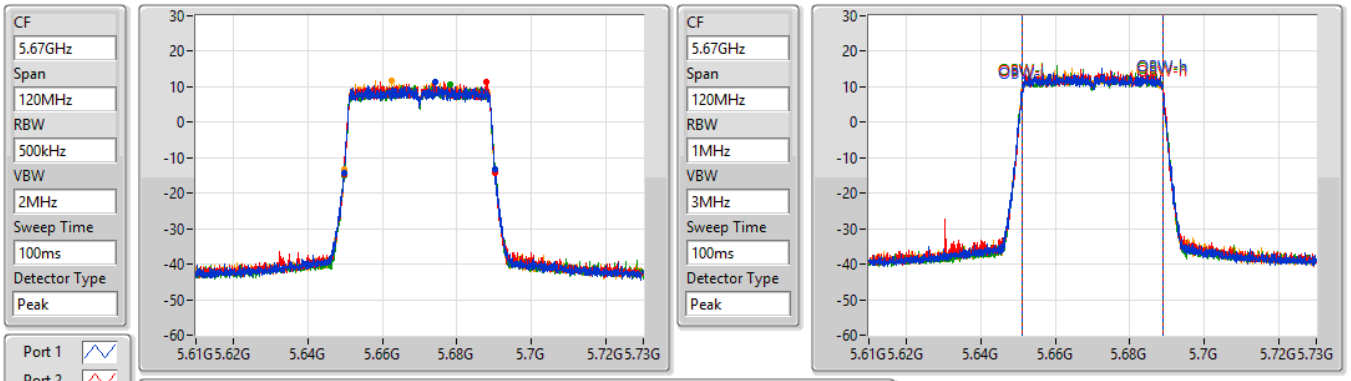


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
40.86M	5.52948G	5.57034G	37.882M	5.531061G	5.568943G	Inf	1
40.56M	5.52972G	5.57028G	37.921M	5.531027G	5.568949G	Inf	2
40.68M	5.52966G	5.57034G	37.977M	5.530966G	5.568943G	Inf	3
40.56M	5.52966G	5.57022G	37.972M	5.531015G	5.568987G	Inf	4

802.11ax HEW40-BF_Nss2,(MCS0)_4TX EBW

5670MHz

23/09/2022

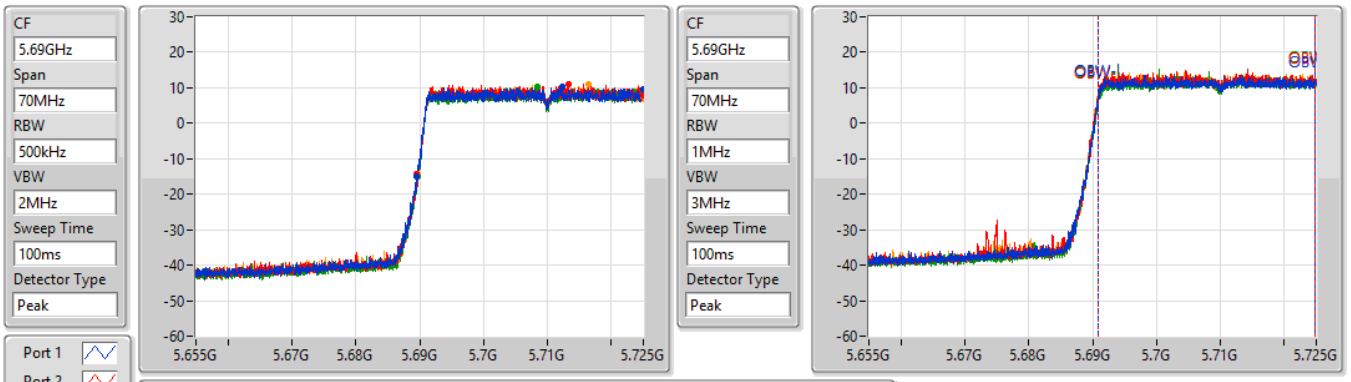


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
40.44M	5.64978G	5.69022G	37.952M	5.651G	5.688952G	Inf	1
40.68M	5.64966G	5.69034G	37.936M	5.651025G	5.688961G	Inf	2
40.56M	5.64972G	5.69028G	37.98M	5.651016G	5.688996G	Inf	3
40.38M	5.64978G	5.69016G	37.96M	5.650963G	5.688923G	Inf	4

802.11ax HEW40-BF_Nss2,(MCS0)_4TX EBW

5710MHz Straddle 5.47-5.725GHz

23/09/2022

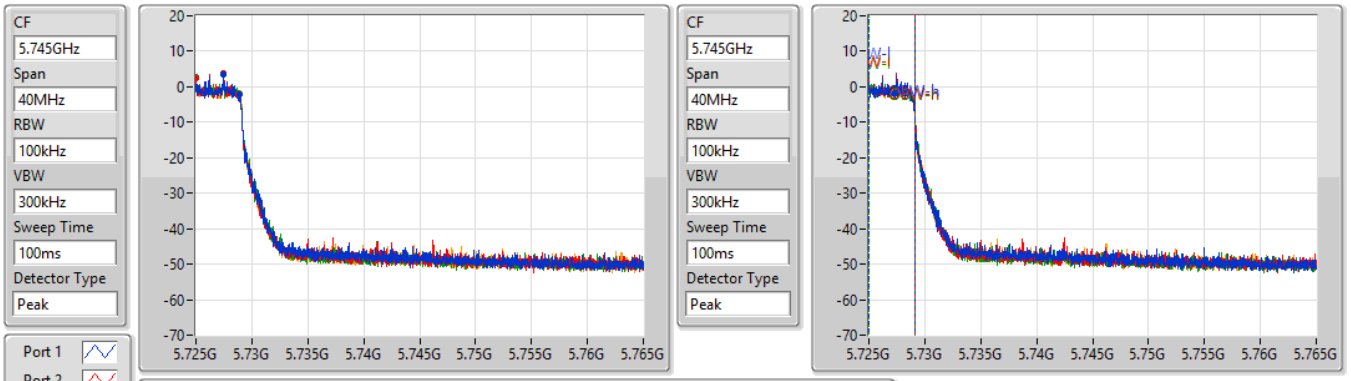


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
35.455M	5.689545G	5.725G	33.899M	5.690929G	5.724828G	Inf	1
35.455M	5.689545G	5.725G	33.885M	5.690933G	5.724818G	Inf	2
35.315M	5.689685G	5.725G	33.863M	5.690975G	5.724838G	Inf	3
35.28M	5.68972G	5.725G	33.837M	5.690959G	5.724796G	Inf	4

802.11ax HEW40-BF_Nss2,(MCS0)_4TX EBW

5710MHz Straddle 5.725-5.85GHz

23/09/2022

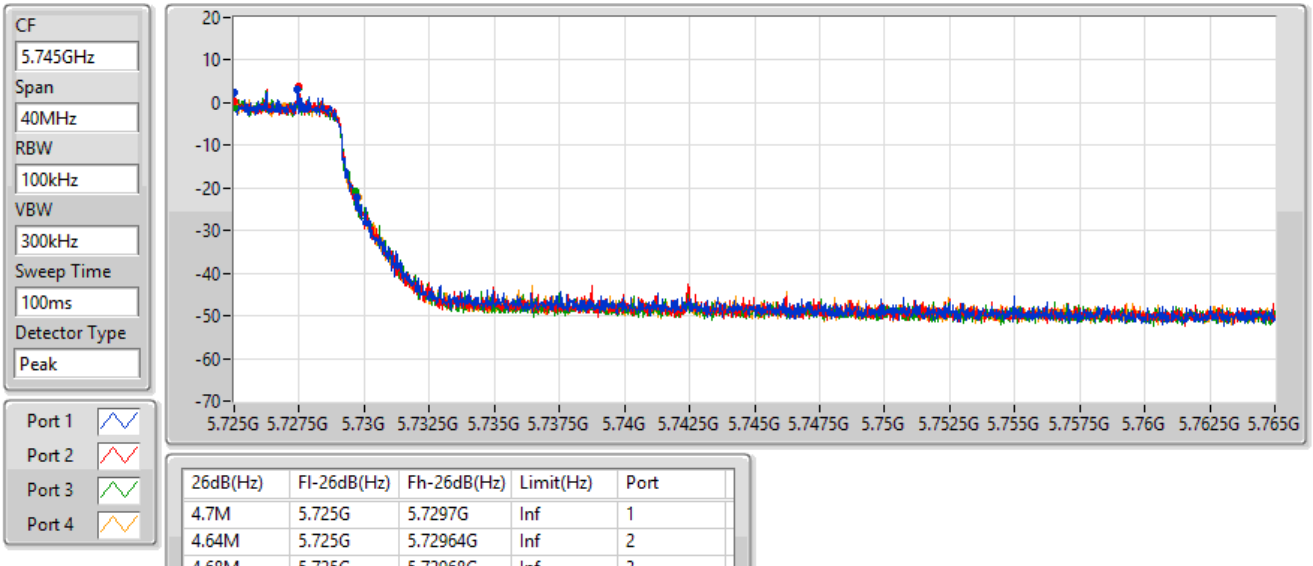


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
3.92M	5.725G	5.72892G	4.13M	5.725009G	5.729138G	500k	1
3.78M	5.725G	5.72878G	4.126M	5.725014G	5.72914G	500k	2
3.84M	5.725G	5.72884G	4.11M	5.725021G	5.729131G	500k	3
3.88M	5.725G	5.72888G	4.116M	5.725017G	5.729133G	500k	4

802.11ax HEW40-BF_Nss2,(MCS0)_4TX EBW

5710MHz Straddle 5.725-5.85GHz

23/09/2022

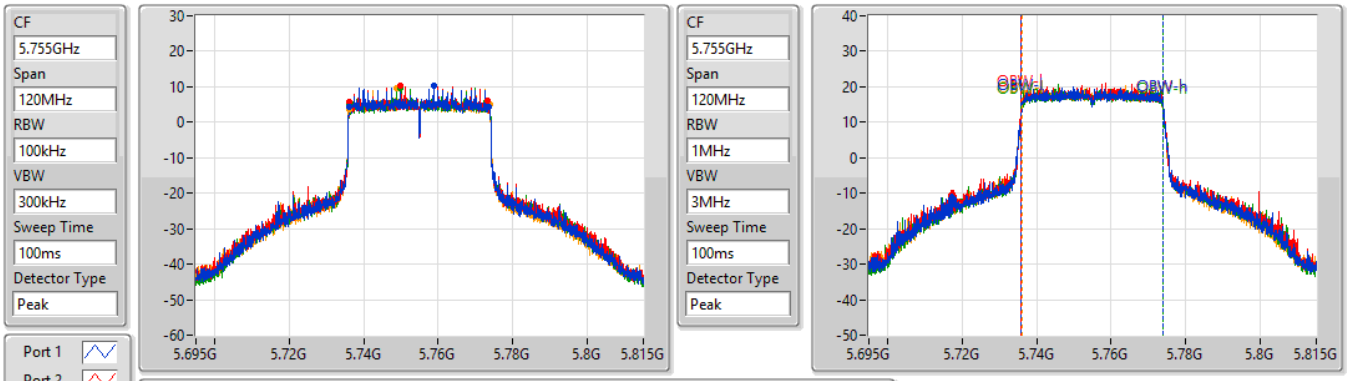


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	Limit(Hz)	Port
4.7M	5.725G	5.7297G	Inf	1
4.64M	5.725G	5.72964G	Inf	2
4.68M	5.725G	5.72968G	Inf	3
4.78M	5.725G	5.72978G	Inf	4

802.11ax HEW40-BF_Nss2,(MCS0)_4TX EBW

5755MHz

23/09/2022

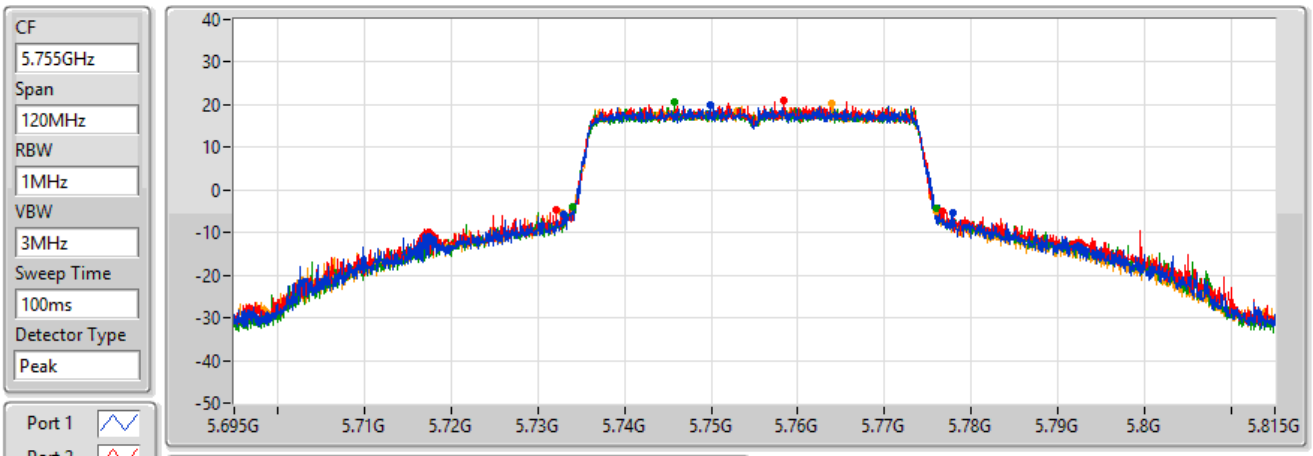


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
37.44M	5.73622G	5.77366G	38.143M	5.735893G	5.774036G	500k	1
37.2M	5.73616G	5.77336G	38.151M	5.735876G	5.774027G	500k	2
37.5M	5.73616G	5.77366G	38.155M	5.735882G	5.774037G	500k	3
37.62M	5.7361G	5.77372G	38.044M	5.735949G	5.773993G	500k	4

802.11ax HEW40-BF_Nss2,(MCS0)_4TX EBW

5755MHz

23/09/2022

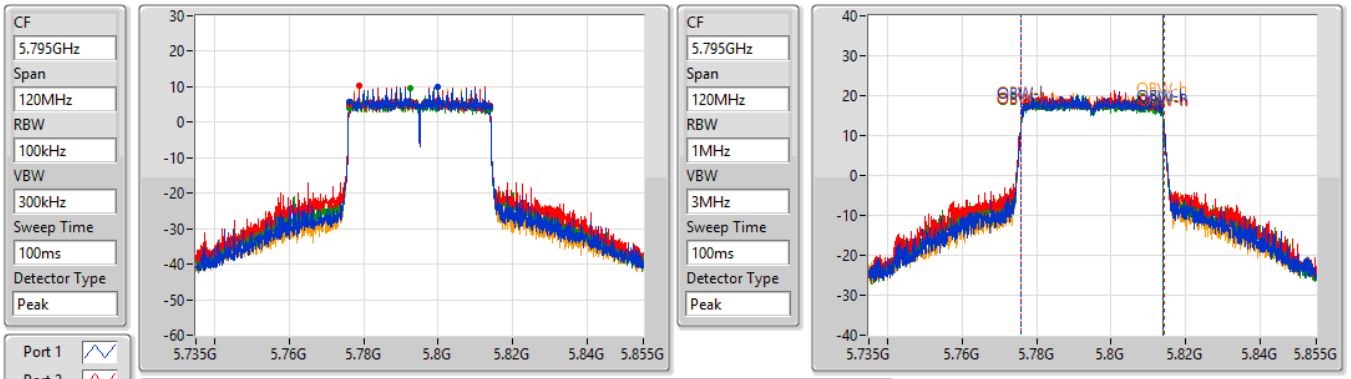


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	Limit(Hz)	Port
44.94M	5.73298G	5.77792G	Inf	1
44.58M	5.73214G	5.77672G	Inf	2
42M	5.734G	5.776G	Inf	3
43.2M	5.73274G	5.77594G	Inf	4

802.11ax HEW40-BF_Nss2,(MCS0)_4TX EBW

5795MHz

23/09/2022

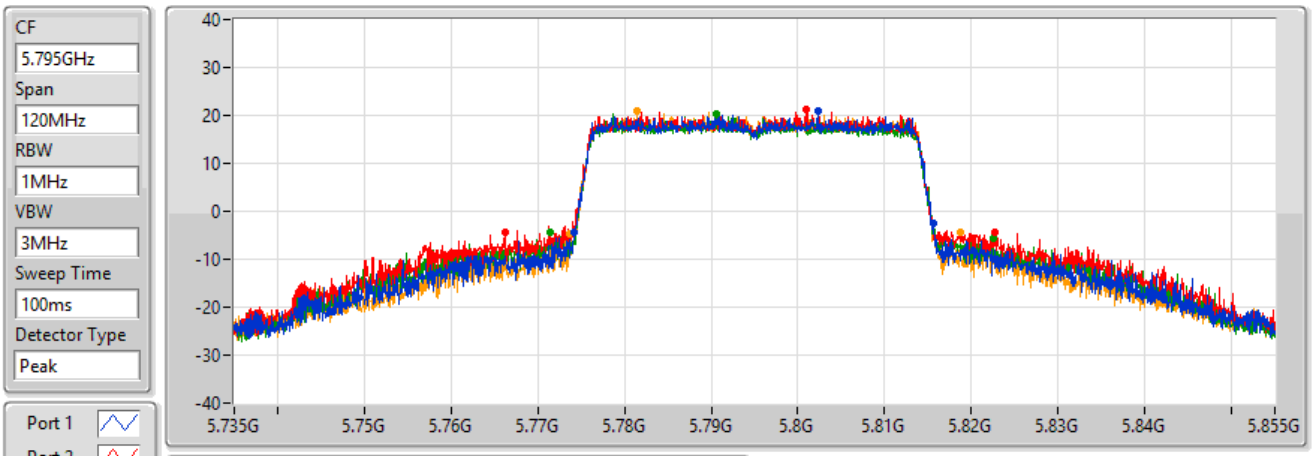


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
37.62M	5.77616G	5.81378G	38.108M	5.77592G	5.814028G	500k	1
37.68M	5.7761G	5.81378G	38.245M	5.77583G	5.814075G	500k	2
37.68M	5.7761G	5.81378G	38.162M	5.7758858G	5.81402G	500k	3
37.62M	5.77616G	5.81378G	38.03M	5.775931G	5.813961G	500k	4

802.11ax HEW40-BF_Nss2,(MCS0)_4TX EBW

5795MHz

23/09/2022

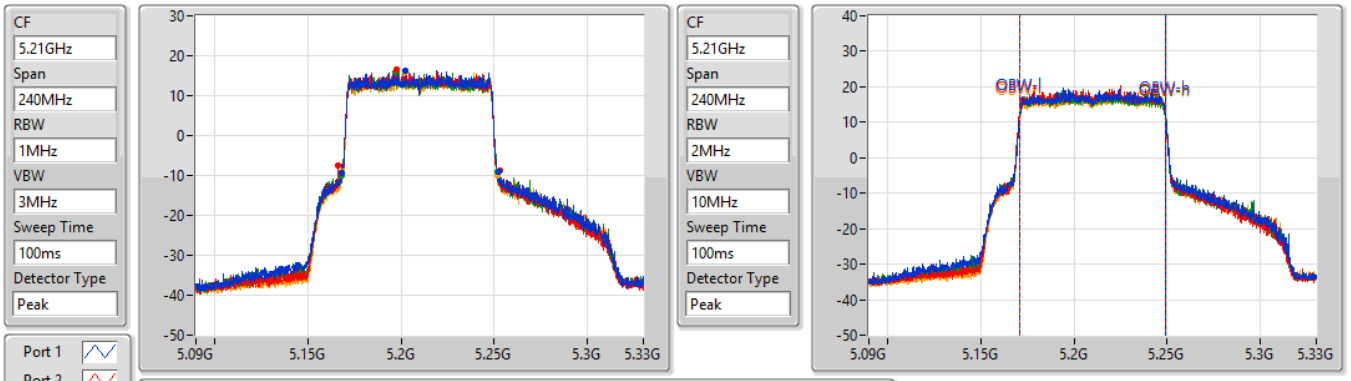


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	Limit(Hz)	Port
41.46M	5.77424G	5.8157G	Inf	1
56.58M	5.7662G	5.82278G	Inf	2
51.12M	5.77136G	5.82248G	Inf	3
44.94M	5.77376G	5.8187G	Inf	4

802.11ax HEW80-BF_Nss2,(MCS0)_4TX EBW

5210MHz

23/09/2022

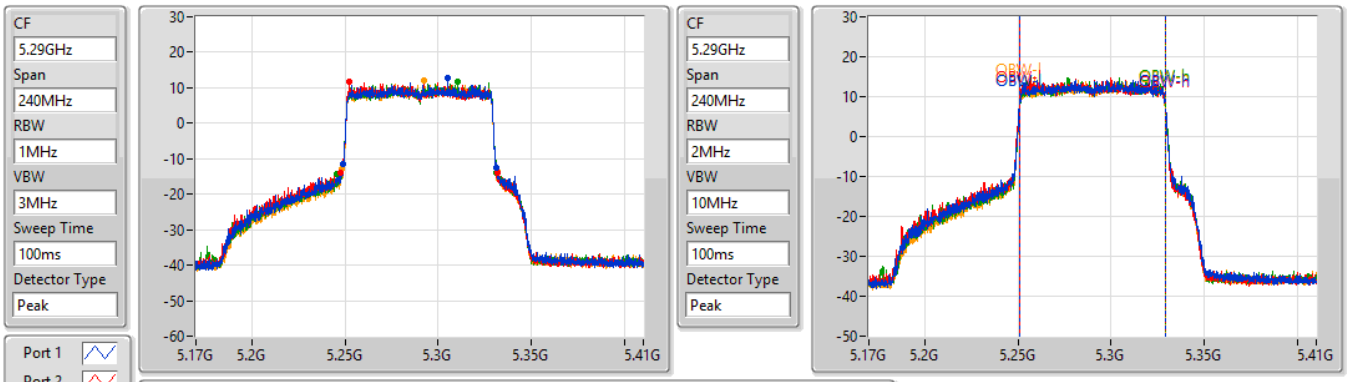


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
83.88M	5.16836G	5.25224G	77.813M	5.171193G	5.249006G	Inf	1
86.52M	5.16632G	5.25284G	77.784M	5.171114G	5.248898G	Inf	2
83.64M	5.168G	5.25164G	77.957M	5.171029G	5.248986G	Inf	3
83.64M	5.16824G	5.25188G	77.903M	5.171111G	5.249014G	Inf	4

802.11ax HEW80-BF_Nss2,(MCS0)_4TX EBW

5290MHz

23/09/2022

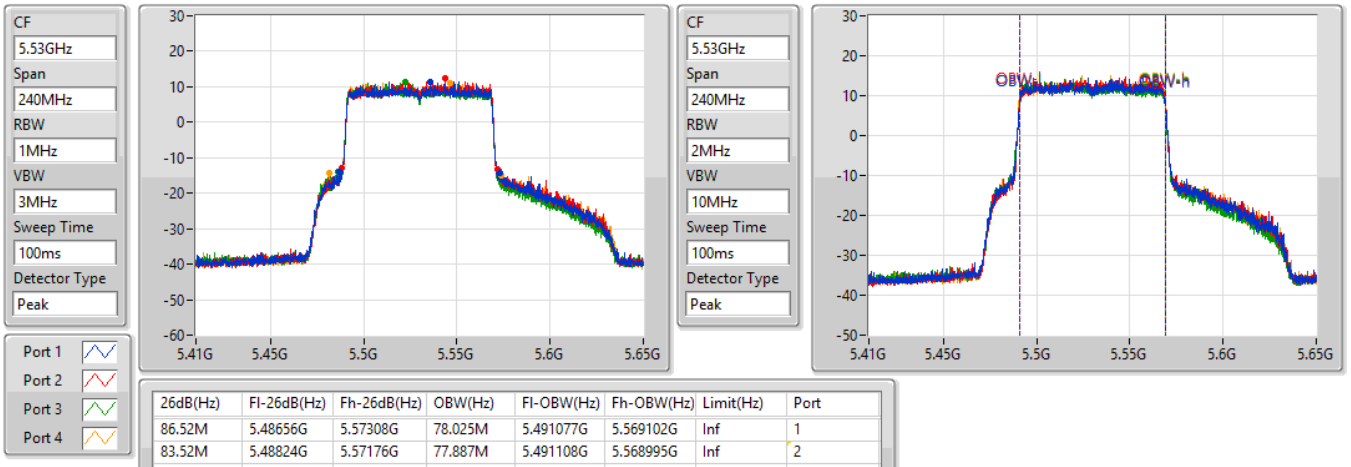


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
82.56M	5.24872G	5.33128G	77.896M	5.250965G	5.328861G	Inf	1
83.64M	5.24788G	5.33152G	78.038M	5.250812G	5.32885G	Inf	2
85.56M	5.24584G	5.3314G	77.994M	5.250975G	5.328969G	Inf	3
83.16M	5.24848G	5.33164G	77.868M	5.250999G	5.328867G	Inf	4

802.11ax HEW80-BF_Nss2,(MCS0)_4TX EBW

5530MHz

23/09/2022

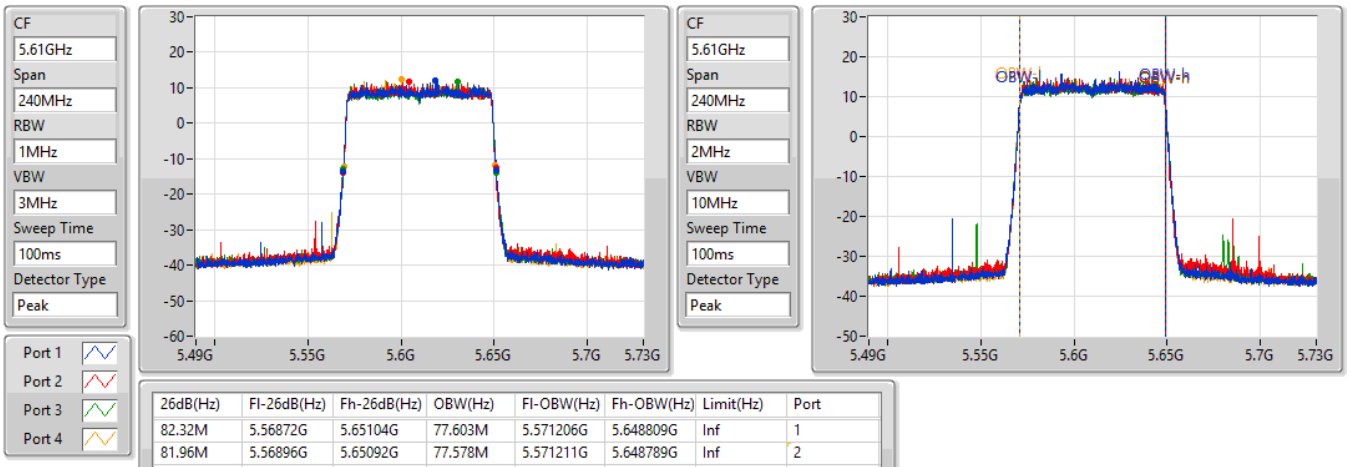


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
86.52M	5.48656G	5.57308G	78.025M	5.491077G	5.569102G	Inf	1
83.52M	5.48824G	5.57176G	77.887M	5.491108G	5.568995G	Inf	2
86.28M	5.48608G	5.57236G	78.045M	5.490893G	5.568937G	Inf	3
92.64M	5.4814G	5.57404G	78.026M	5.491011G	5.569038G	Inf	4

802.11ax HEW80-BF_Nss2,(MCS0)_4TX EBW

5610MHz

23/09/2022

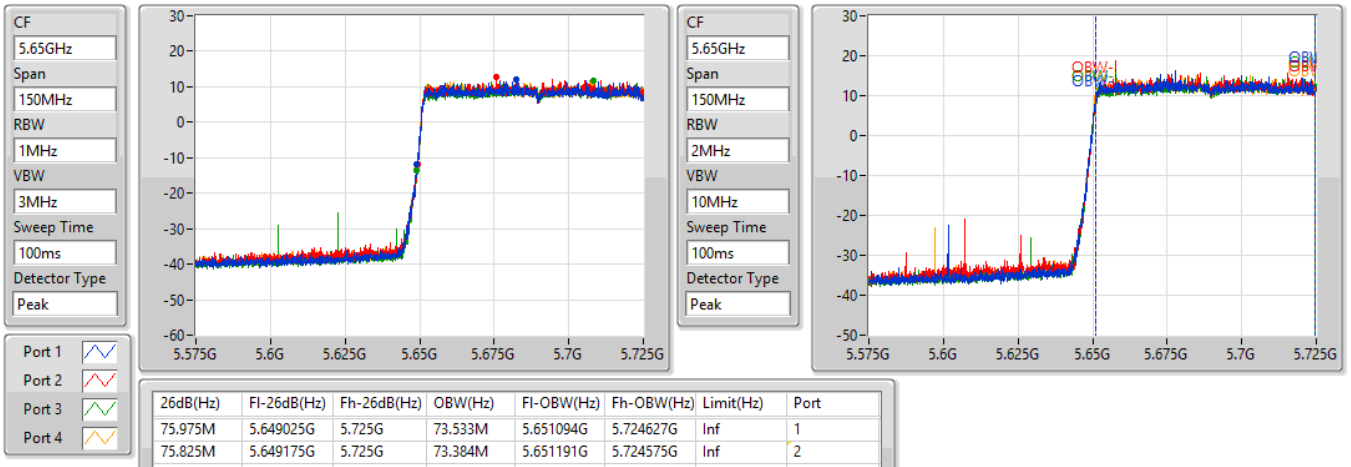


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
82.32M	5.56872G	5.65104G	77.603M	5.571206G	5.648809G	Inf	1
81.96M	5.56896G	5.65092G	77.578M	5.571211G	5.648789G	Inf	2
81.96M	5.56908G	5.65104G	77.789M	5.571126G	5.648915G	Inf	3
81.36M	5.56932G	5.65068G	77.596M	5.571206G	5.648802G	Inf	4

802.11ax HEW80-BF_Nss2,(MCS0)_4TX EBW

5690MHz Straddle 5.47-5.725GHz

23/09/2022

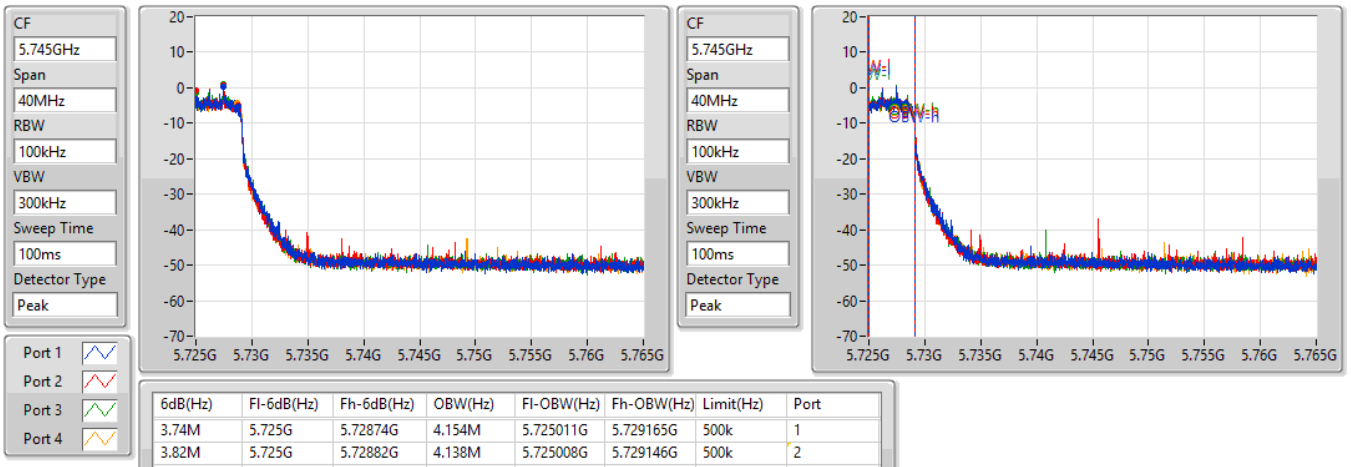


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
75.975M	5.649025G	5.725G	73.533M	5.651094G	5.724627G	Inf	1
75.825M	5.649175G	5.725G	73.384M	5.651191G	5.724575G	Inf	2
76.05M	5.64895G	5.725G	73.489M	5.651179G	5.724668G	Inf	3
76.05M	5.64895G	5.725G	73.593M	5.650977G	5.72457G	Inf	4

802.11ax HEW80-BF_Nss2,(MCS0)_4TX EBW

5690MHz Straddle 5.725-5.85GHz

23/09/2022

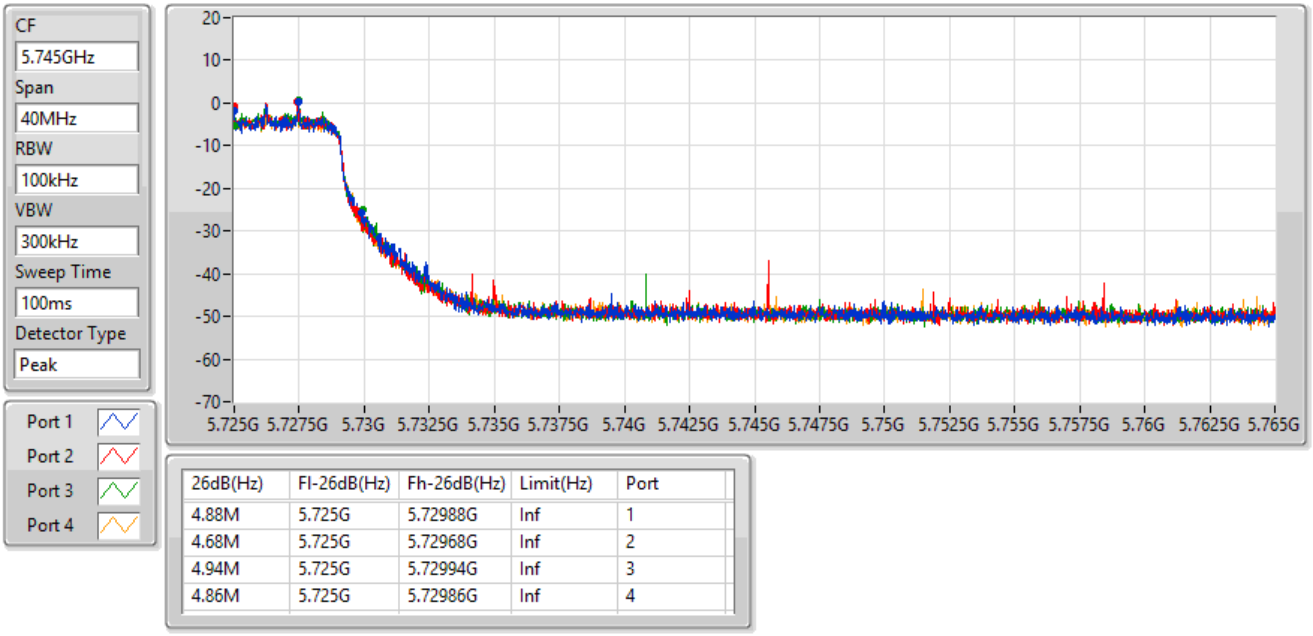


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
3.74M	5.725G	5.72874G	4.154M	5.725011G	5.729165G	500k	1
3.82M	5.725G	5.72882G	4.138M	5.725008G	5.729146G	500k	2
3.84M	5.725G	5.72884G	4.127M	5.725024G	5.729151G	500k	3
3.7M	5.725G	5.7287G	4.157M	5.725009G	5.729166G	500k	4

802.11ax HEW80-BF_Nss2,(MCS0)_4TX EBW

5690MHz Straddle 5.725-5.85GHz

23/09/2022

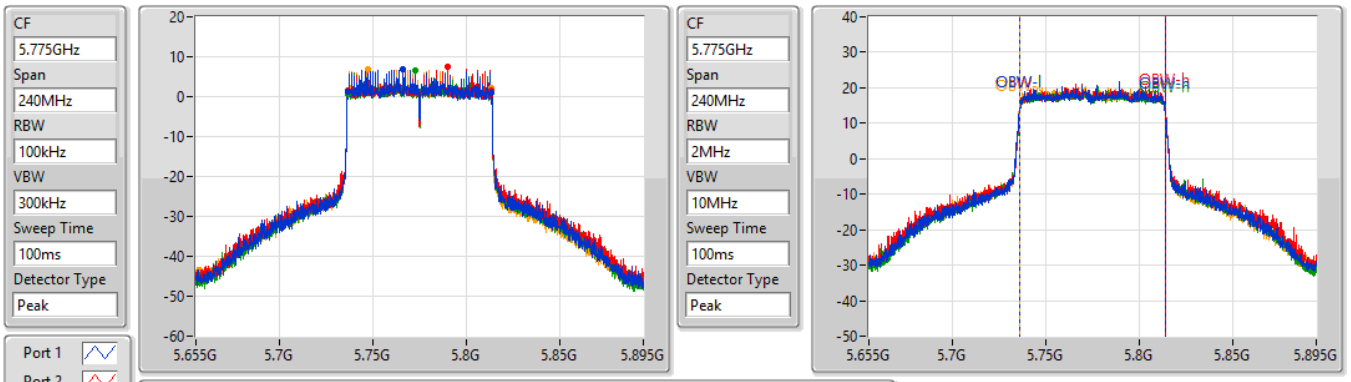


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	Limit(Hz)	Port
4.88M	5.725G	5.72988G	Inf	1
4.68M	5.725G	5.72968G	Inf	2
4.94M	5.725G	5.72994G	Inf	3
4.86M	5.725G	5.72986G	Inf	4

802.11ax HEW80-BF_Nss2,(MCS0)_4TX EBW

5775MHz

23/09/2022



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
77.04M	5.73648G	5.81352G	77.946M	5.735939G	5.813884G	500k	1
76.56M	5.73672G	5.81328G	77.909M	5.736008G	5.813916G	500k	2
76.92M	5.7366G	5.81352G	77.919M	5.735977G	5.813896G	500k	3
76.56M	5.7366G	5.81316G	77.96M	5.735896G	5.813855G	500k	4

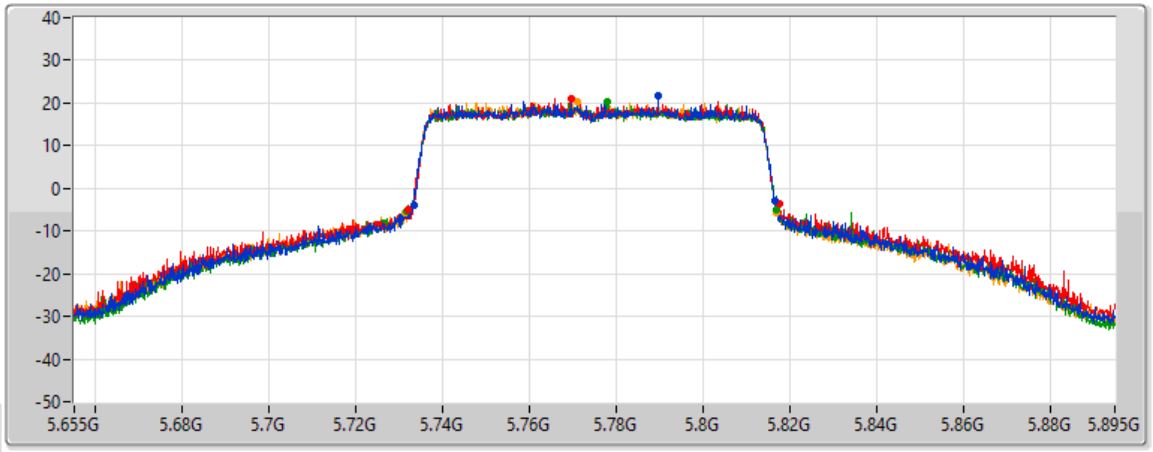
802.11ax HEW80-BF_Nss2,(MCS0)_4TX EBW

5775MHz

23/09/2022

CF 5.775GHz
Span 240MHz
RBW 2MHz
VBW 10MHz
Sweep Time 100ms
Detector Type Peak

Port 1
Port 2
Port 3
Port 4



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	Limit(Hz)	Port
83.52M	5.73324G	5.81676G	Inf	1
85.68M	5.73204G	5.81772G	Inf	2
85.44M	5.73168G	5.81712G	Inf	3
85.92M	5.7312G	5.81712G	Inf	4

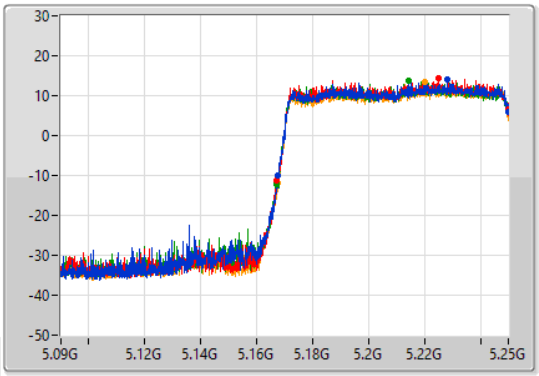
802.11ax HEW160-BF_Nss2,(MCS0)_4TX EBW

5250MHz Straddle 5.15-5.25GHz

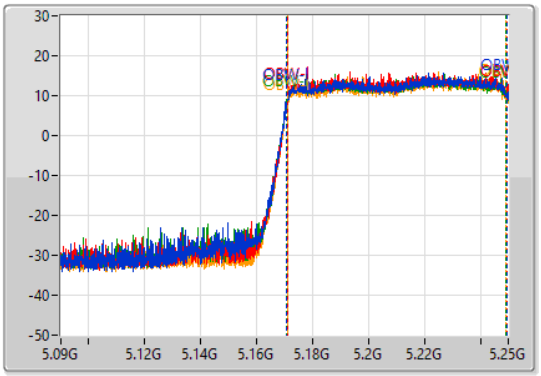
23/09/2022

CF 5.17GHz
Span 160MHz
RBW 2MHz
VBW 10MHz
Sweep Time 100ms
Detector Type Peak

Port 1
Port 2
Port 3
Port 4



CF 5.17GHz
Span 160MHz
RBW 3MHz
VBW 10MHz
Sweep Time 100ms
Detector Type Peak

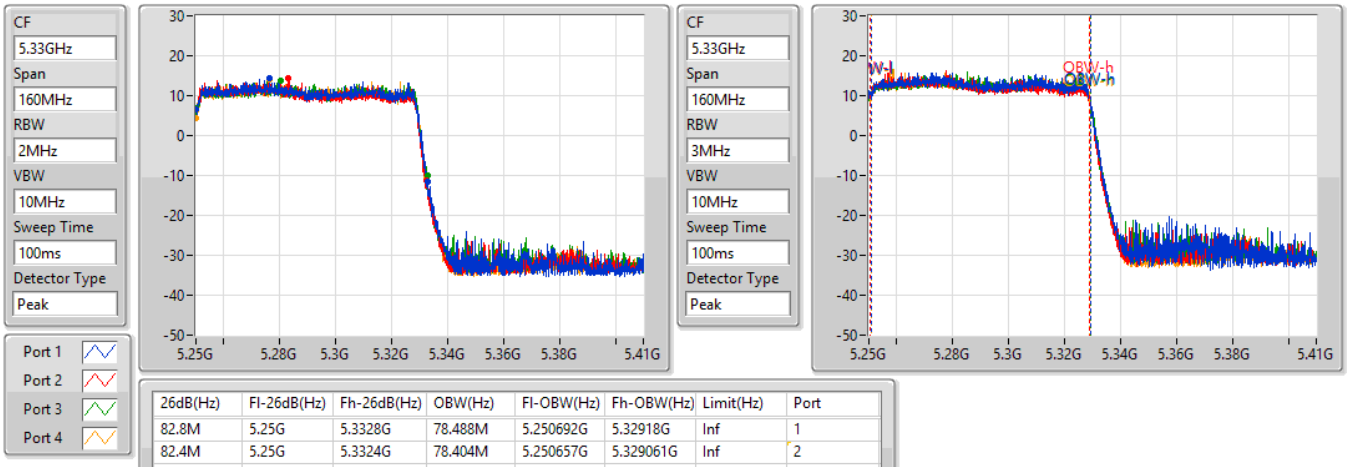


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
82.48M	5.16752G	5.25G	78.552M	5.170818G	5.24937G	Inf	1
82.8M	5.1672G	5.25G	78.408M	5.170939G	5.249347G	Inf	2
83.04M	5.16696G	5.25G	78.45M	5.170828G	5.249278G	Inf	3
82.24M	5.16776G	5.25G	78.324M	5.170971G	5.249296G	Inf	4

802.11ax HEW160-BF_Nss2,(MCS0)_4TX EBW

5250MHz Straddle 5.25-5.35GHz

23/09/2022

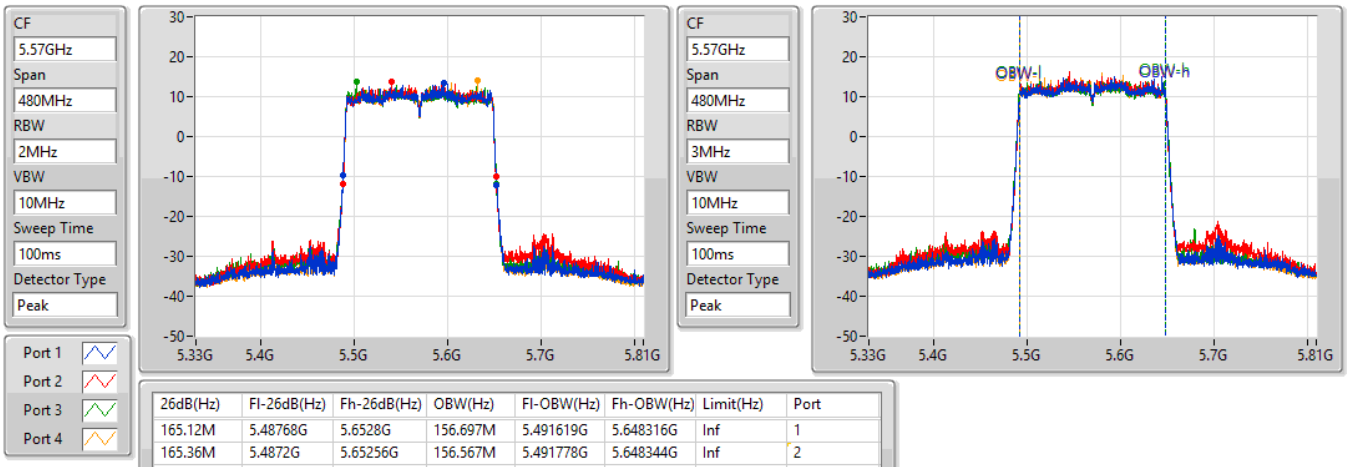


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
82.8M	5.25G	5.3328G	78.488M	5.250692G	5.32918G	Inf	1
82.4M	5.25G	5.3324G	78.404M	5.250657G	5.329061G	Inf	2
82.88M	5.25G	5.33288G	78.441M	5.250726G	5.329167G	Inf	3
82.48M	5.25G	5.33248G	78.291M	5.250801G	5.329092G	Inf	4

802.11ax HEW160-BF_Nss2,(MCS0)_4TX EBW

5570MHz

23/09/2022



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
165.12M	5.48768G	5.6528G	156.697M	5.491619G	5.648316G	Inf	1
165.36M	5.4872G	5.65256G	156.567M	5.491778G	5.648344G	Inf	2
164.88M	5.48768G	5.65256G	157.264M	5.491306G	5.64857G	Inf	3
165.12M	5.4872G	5.65232G	156.595M	5.491582G	5.648177G	Inf	4

Summary

Mode	Total Power (dBm)	Total Power (W)
5.15-5.25GHz	-	-
802.11a_Nss1,(6Mbps)_4TX	29.96	0.99083
5.25-5.35GHz	-	-
802.11a_Nss1,(6Mbps)_4TX	23.92	0.24660
5.47-5.725GHz	-	-
802.11a_Nss1,(6Mbps)_4TX	23.68	0.23335
5.725-5.85GHz	-	-
802.11a_Nss1,(6Mbps)_4TX	29.94	0.98628

Result

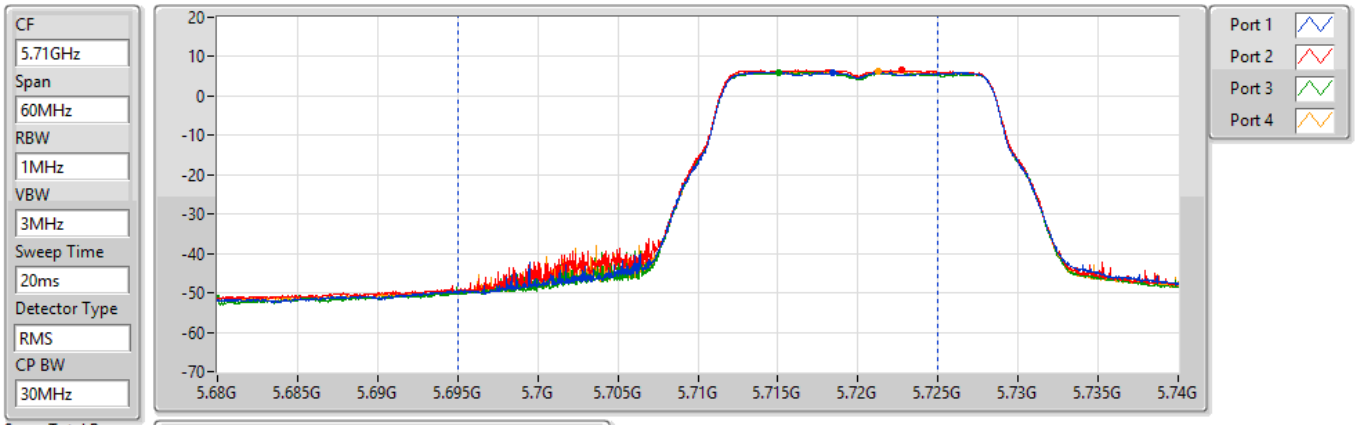
Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Port 3 (dBm)	Port 4 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11a_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-
5180MHz	Pass	2.70	23.85	23.90	23.47	23.32	29.66	30.00
5200MHz	Pass	2.70	24.07	24.16	23.83	23.70	29.96	30.00
5240MHz	Pass	2.70	23.87	23.94	23.58	23.46	29.74	30.00
5260MHz	Pass	2.74	18.02	18.17	17.70	17.68	23.92	23.98
5300MHz	Pass	2.74	17.89	18.13	17.80	17.78	23.92	23.98
5320MHz	Pass	2.74	17.77	18.05	17.66	17.60	23.79	23.98
5500MHz	Pass	3.53	17.54	17.92	17.40	17.75	23.68	23.98
5580MHz	Pass	3.53	17.34	17.97	17.30	17.78	23.63	23.98
5700MHz	Pass	3.53	17.13	17.58	16.92	17.15	23.22	23.98
5720MHz Straddle 5.47-5.725GHz	Pass	3.53	16.53	17.16	16.44	16.69	22.73	22.94
5720MHz Straddle 5.725-5.85GHz	Pass	3.93	10.48	10.72	10.25	10.47	16.50	30.00
5745MHz	Pass	3.93	23.69	23.89	23.61	24.11	29.85	30.00
5785MHz	Pass	3.93	23.80	24.03	23.73	24.12	29.94	30.00
5825MHz	Pass	3.93	24.25	23.82	23.37	24.10	29.92	30.00

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

802.11a_Nss1,(6Mbps)_4TX AV Power

5720MHz Straddle 5.47-5.725GHz_TnomVnom

22/09/2022



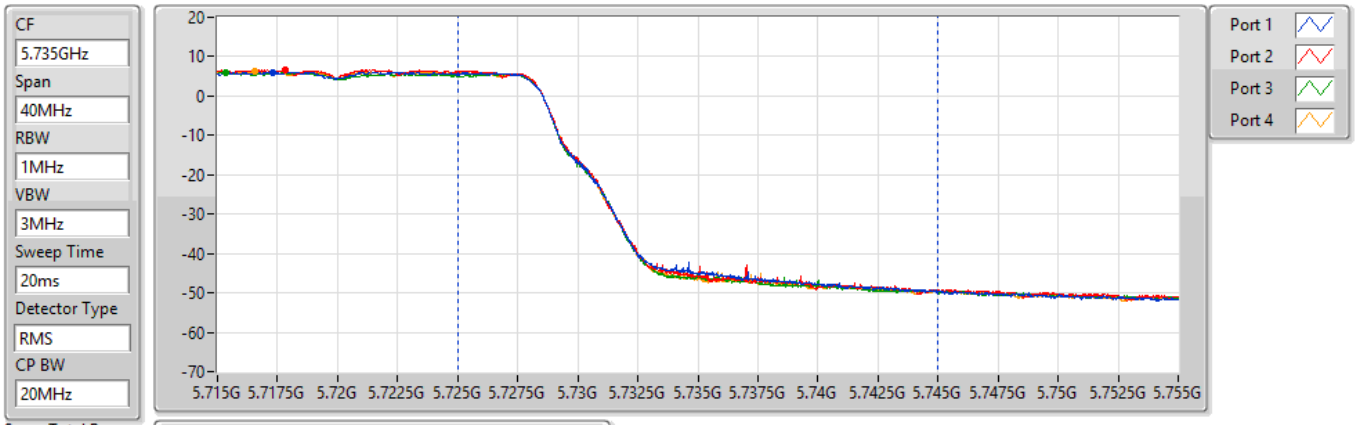
Sum=Total Power
PX=Port X

Sum(dBm)	P1(dBm)	P2(dBm)	P3(dBm)	P4(dBm)
22.73	16.53	17.16	16.44	16.69

802.11a_Nss1,(6Mbps)_4TX AV Power

5720MHz Straddle 5.725-5.85GHz_TnomVnom

22/09/2022



Sum=Total Power
PX=Port X

Sum(dBm)	P1(dBm)	P2(dBm)	P3(dBm)	P4(dBm)
16.50	10.48	10.72	10.25	10.47

Summary

Mode	Total Power (dBm)	Total Power (W)
5.15-5.25GHz	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	29.58	0.90782
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	29.46	0.88308
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	27.20	0.52481
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	23.81	0.24044
5.25-5.35GHz	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	23.86	0.24322
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	23.95	0.24831
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	23.84	0.24210
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	23.89	0.24491
5.47-5.725GHz	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	23.57	0.22751
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	23.69	0.23388
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	23.63	0.23067
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	23.63	0.23067
5.725-5.85GHz	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	28.77	0.75336
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	28.83	0.76384
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	28.81	0.76033

Result

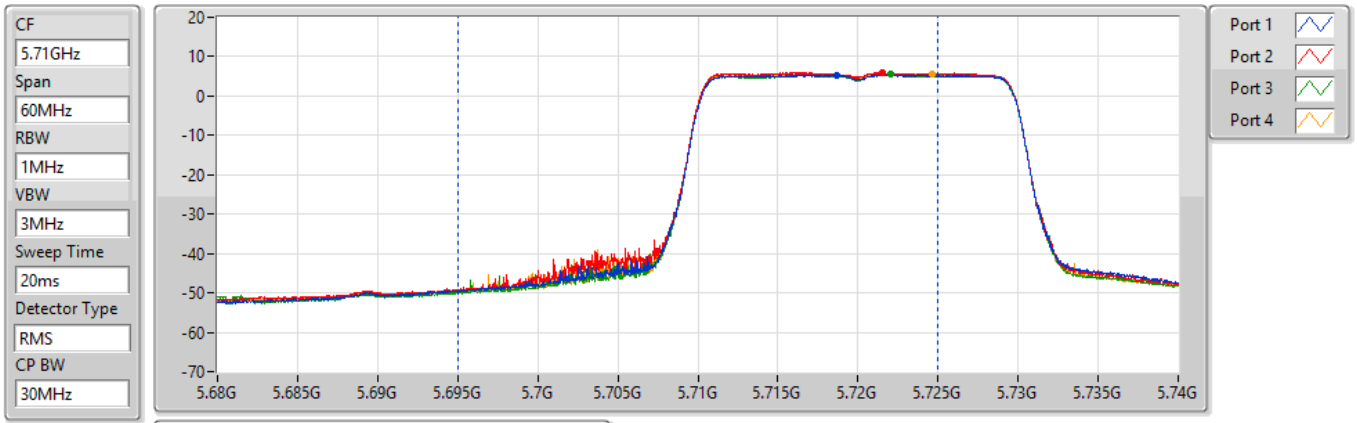
Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Port 3 (dBm)	Port 4 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5180MHz	Pass	6.38	23.69	23.91	23.38	23.24	29.58	29.62
5200MHz	Pass	6.38	23.64	23.73	23.26	23.24	29.49	29.62
5240MHz	Pass	6.38	23.64	23.75	23.43	23.20	29.53	29.62
5260MHz	Pass	5.90	17.82	18.08	17.74	17.48	23.81	23.98
5300MHz	Pass	5.90	17.94	18.01	17.81	17.58	23.86	23.98
5320MHz	Pass	5.90	17.85	18.00	17.78	17.56	23.82	23.98
5500MHz	Pass	6.27	17.55	17.79	17.27	17.51	23.55	23.71
5580MHz	Pass	6.27	17.51	17.84	17.28	17.55	23.57	23.71
5700MHz	Pass	6.27	17.35	17.85	17.19	17.58	23.52	23.71
5720MHz Straddle 5.47-5.725GHz	Pass	6.27	16.34	16.86	16.29	16.56	22.54	22.70
5720MHz Straddle 5.725-5.85GHz	Pass	7.14	11.17	11.61	11.38	11.41	17.42	28.86
5745MHz	Pass	7.14	22.53	22.92	22.63	22.91	28.77	28.86
5785MHz	Pass	7.14	22.41	22.99	22.65	22.84	28.75	28.86
5825MHz	Pass	7.14	23.03	22.54	22.11	22.84	28.66	28.86
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5190MHz	Pass	6.38	23.26	23.33	22.81	22.49	29.01	29.62
5230MHz	Pass	6.38	23.48	23.73	23.36	23.18	29.46	29.62
5270MHz	Pass	5.90	17.97	18.12	17.86	17.77	23.95	23.98
5310MHz	Pass	5.90	17.86	17.97	17.64	17.59	23.79	23.98
5510MHz	Pass	6.27	17.47	17.90	17.50	17.80	23.69	23.71
5550MHz	Pass	6.27	17.54	17.88	17.31	17.89	23.68	23.71
5670MHz	Pass	6.27	17.38	17.81	17.48	17.89	23.67	23.71
5710MHz Straddle 5.47-5.725GHz	Pass	6.27	17.46	17.91	17.22	17.67	23.59	23.71
5710MHz Straddle 5.725-5.85GHz	Pass	7.14	7.83	8.29	7.92	8.02	14.04	28.86
5755MHz	Pass	7.14	22.81	22.92	22.64	22.86	28.83	28.86
5795MHz	Pass	7.14	22.50	23.13	22.57	22.91	28.81	28.86
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5210MHz	Pass	6.38	21.56	21.36	21.11	20.64	27.20	29.62
5290MHz	Pass	5.90	17.78	18.00	17.82	17.66	23.84	23.98
5530MHz	Pass	6.27	17.57	17.83	17.36	17.65	23.63	23.71
5610MHz	Pass	6.27	17.30	17.72	17.33	17.54	23.50	23.71
5690MHz Straddle 5.47-5.725GHz	Pass	6.27	17.48	17.78	17.19	17.40	23.49	23.71
5690MHz Straddle 5.725-5.85GHz	Pass	7.14	4.39	4.57	4.71	4.27	10.51	28.86
5775MHz	Pass	7.14	22.75	23.04	22.53	22.81	28.81	28.86
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	6.38	17.73	18.27	17.76	17.36	23.81	29.62
5250MHz Straddle 5.25-5.35GHz	Pass	5.90	18.10	17.68	17.86	17.81	23.89	23.98
5570MHz	Pass	6.27	17.56	17.84	17.43	17.60	23.63	23.71

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

802.11ax HEW20-BF_Nss1,(MCS0)_4TX AV Power

5720MHz Straddle 5.47-5.725GHz_TnomVnom

22/09/2022

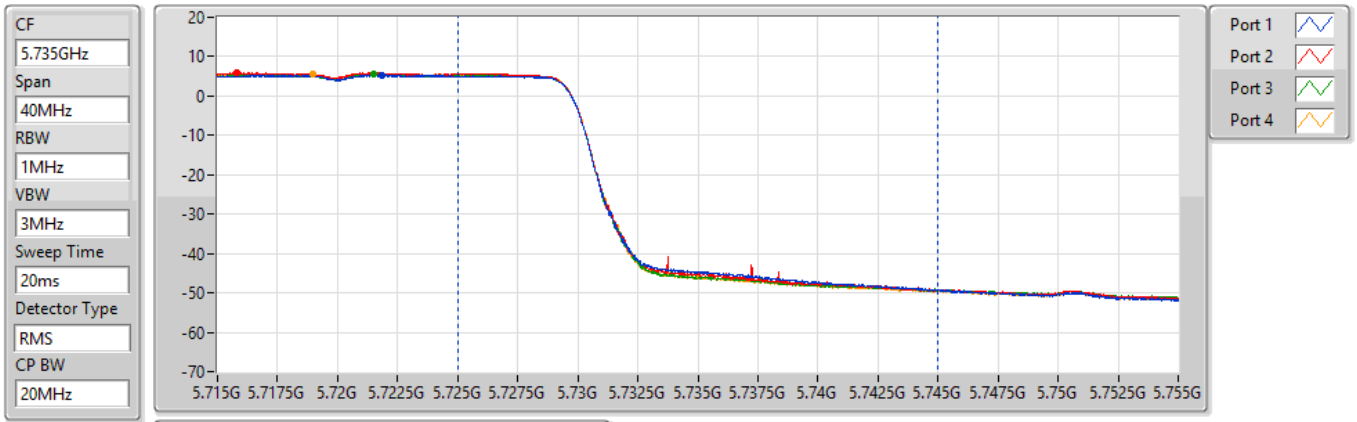


Sum(dBm)	P1(dBm)	P2(dBm)	P3(dBm)	P4(dBm)
22.54	16.34	16.86	16.29	16.56

802.11ax HEW20-BF_Nss1,(MCS0)_4TX AV Power

5720MHz Straddle 5.725-5.85GHz_TnomVnom

22/09/2022

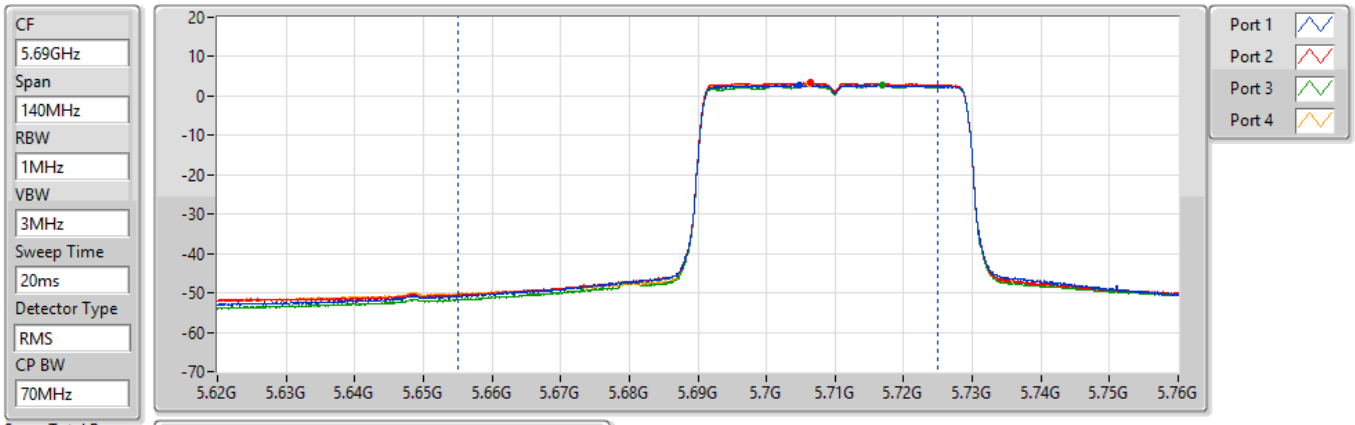


Sum(dBm)	P1(dBm)	P2(dBm)	P3(dBm)	P4(dBm)
17.42	11.17	11.61	11.38	11.41

802.11ax HEW40-BF_Nss1,(MCS0)_4TX AV Power

5710MHz Straddle 5.47-5.725GHz_TnomVnom

22/09/2022

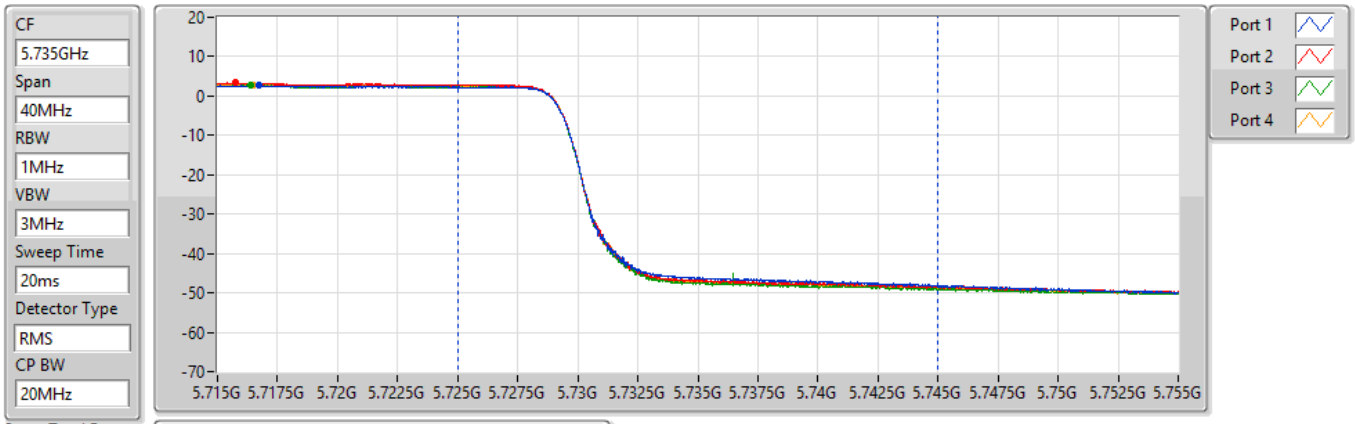


Sum(dBm)	P1(dBm)	P2(dBm)	P3(dBm)	P4(dBm)
23.59	17.46	17.91	17.22	17.67

802.11ax HEW40-BF_Nss1,(MCS0)_4TX AV Power

5710MHz Straddle 5.725-5.85GHz_TnomVnom

22/09/2022

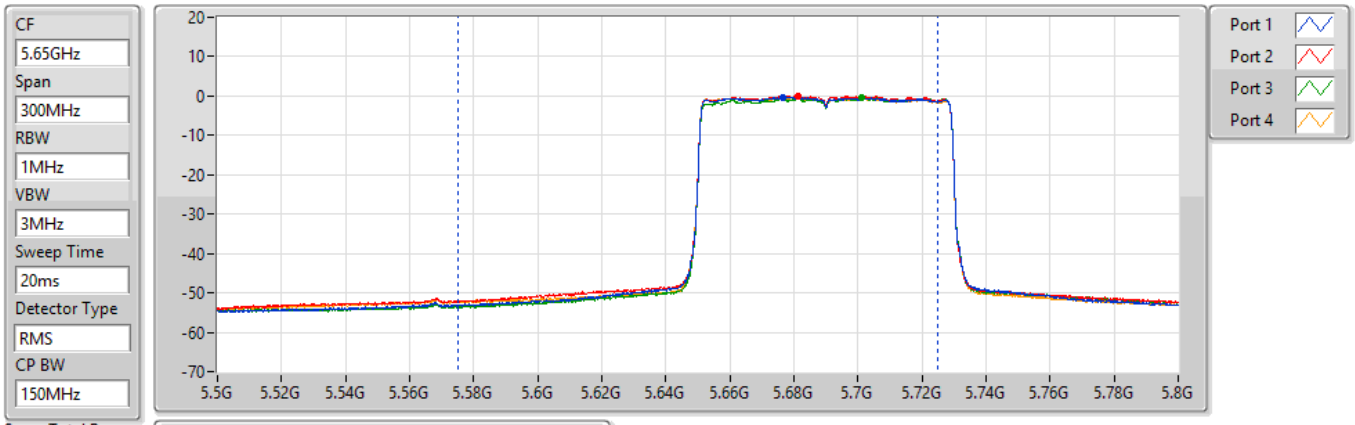


Sum(dBm)	P1(dBm)	P2(dBm)	P3(dBm)	P4(dBm)
14.04	7.83	8.29	7.92	8.02

802.11ax HEW80-BF_Nss1,(MCS0)_4TX AV Power

5690MHz Straddle 5.47-5.725GHz_TnomVnom

23/09/2022

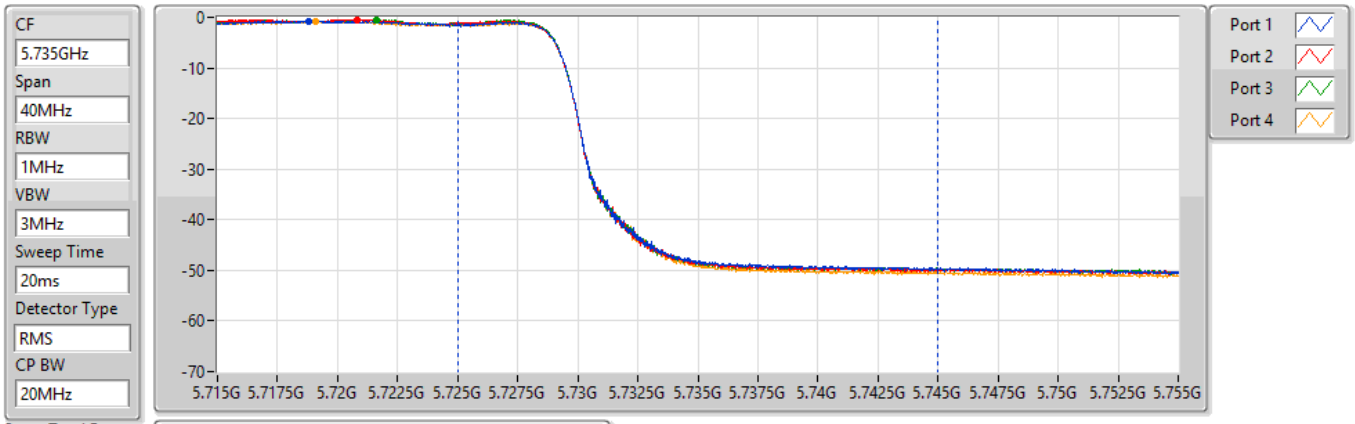


Sum(dBm)	P1(dBm)	P2(dBm)	P3(dBm)	P4(dBm)
23.49	17.48	17.78	17.19	17.40

802.11ax HEW80-BF_Nss1,(MCS0)_4TX AV Power

5690MHz Straddle 5.725-5.85GHz_TnomVnom

23/09/2022

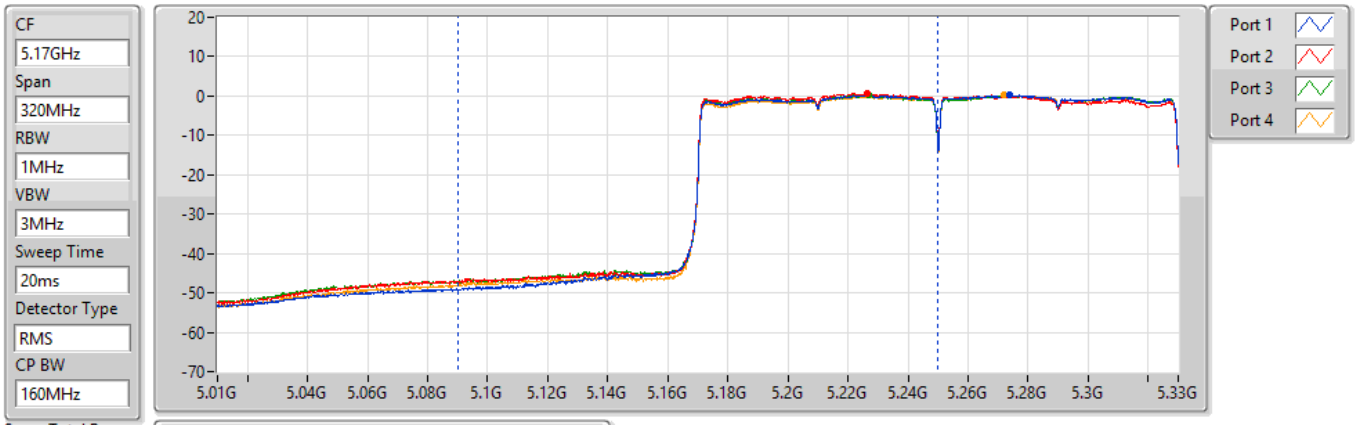


Sum(dBm)	P1(dBm)	P2(dBm)	P3(dBm)	P4(dBm)
10.51	4.39	4.57	4.71	4.27

802.11ax HEW160-BF_Nss1,(MCS0)_4TX AV Power

5250MHz Straddle 5.15-5.25GHz_TnomVnom

27/09/2022

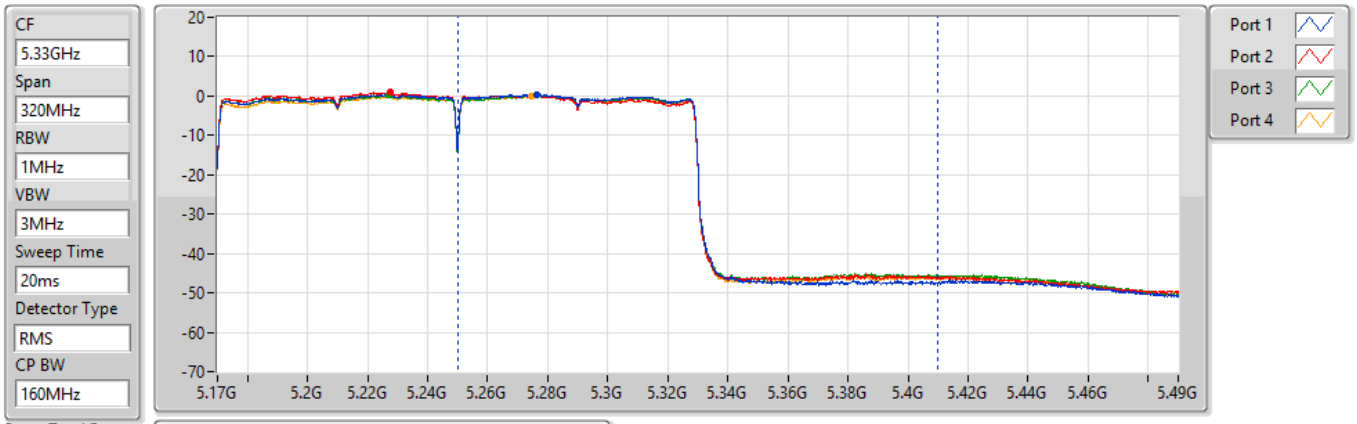


Sum(dBm)	P1(dBm)	P2(dBm)	P3(dBm)	P4(dBm)
23.81	17.73	18.27	17.76	17.36

802.11ax HEW160-BF_Nss1,(MCS0)_4TX AV Power

5250MHz Straddle 5.25-5.35GHz_TnomVnom

27/09/2022



Sum(dBm)	P1(dBm)	P2(dBm)	P3(dBm)	P4(dBm)
23.89	18.10	17.68	17.86	17.81

Summary

Mode	Total Power (dBm)	Total Power (W)
5.15-5.25GHz	-	-
802.11ax HEW20-BF_Nss2,(MCS0)_4TX	29.93	0.98401
802.11ax HEW40-BF_Nss2,(MCS0)_4TX	29.93	0.98401
802.11ax HEW80-BF_Nss2,(MCS0)_4TX	29.52	0.89536
802.11ax HEW160-BF_Nss2,(MCS0)_4TX	22.51	0.17824
5.25-5.35GHz	-	-
802.11ax HEW20-BF_Nss2,(MCS0)_4TX	23.93	0.24717
802.11ax HEW40-BF_Nss2,(MCS0)_4TX	23.94	0.24774
802.11ax HEW80-BF_Nss2,(MCS0)_4TX	23.85	0.24266
802.11ax HEW160-BF_Nss2,(MCS0)_4TX	22.62	0.18281
5.47-5.725GHz	-	-
802.11ax HEW20-BF_Nss2,(MCS0)_4TX	23.90	0.24547
802.11ax HEW40-BF_Nss2,(MCS0)_4TX	23.95	0.24831
802.11ax HEW80-BF_Nss2,(MCS0)_4TX	23.84	0.24210
802.11ax HEW160-BF_Nss2,(MCS0)_4TX	23.76	0.23768
5.725-5.85GHz	-	-
802.11ax HEW20-BF_Nss2,(MCS0)_4TX	29.94	0.98628
802.11ax HEW40-BF_Nss2,(MCS0)_4TX	29.92	0.98175
802.11ax HEW80-BF_Nss2,(MCS0)_4TX	29.95	0.98855

Result

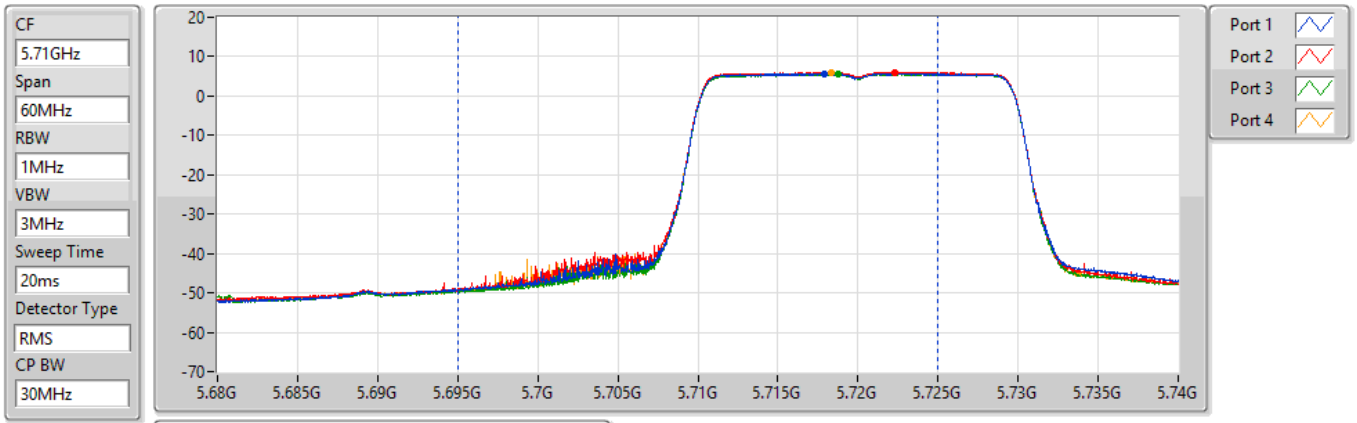
Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Port 3 (dBm)	Port 4 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11ax HEW20-BF_Nss2,(MCS0)_4TX	-	-	-	-	-	-	-	-
5180MHz	Pass	3.38	24.06	24.18	23.79	23.55	29.92	30.00
5200MHz	Pass	3.38	24.14	24.12	23.77	23.51	29.91	30.00
5240MHz	Pass	3.38	24.09	24.13	23.81	23.59	29.93	30.00
5260MHz	Pass	2.90	17.92	18.14	17.85	17.61	23.90	23.98
5300MHz	Pass	2.90	17.80	18.15	17.93	17.73	23.93	23.98
5320MHz	Pass	2.90	17.85	18.16	17.69	17.60	23.85	23.98
5500MHz	Pass	3.53	17.76	18.21	17.62	17.89	23.90	23.98
5580MHz	Pass	3.53	17.62	18.05	17.56	17.70	23.76	23.98
5700MHz	Pass	3.53	17.45	18.15	17.60	17.73	23.76	23.98
5720MHz Straddle 5.47-5.725GHz	Pass	3.53	16.70	17.00	16.57	16.85	22.80	22.97
5720MHz Straddle 5.725-5.85GHz	Pass	4.14	11.62	11.97	11.65	11.57	17.73	30.00
5745MHz	Pass	4.14	23.73	24.02	23.71	24.18	29.94	30.00
5785MHz	Pass	4.14	23.70	24.03	23.65	23.96	29.86	30.00
5825MHz	Pass	4.14	24.17	23.82	23.58	23.80	29.87	30.00
802.11ax HEW40-BF_Nss2,(MCS0)_4TX	-	-	-	-	-	-	-	-
5190MHz	Pass	3.38	24.22	23.98	23.79	23.63	29.93	30.00
5230MHz	Pass	3.38	23.92	24.18	23.88	23.66	29.93	30.00
5270MHz	Pass	2.90	17.94	18.14	17.89	17.70	23.94	23.98
5310MHz	Pass	2.90	17.85	18.09	17.57	17.60	23.80	23.98
5510MHz	Pass	3.53	17.79	18.11	17.66	18.01	23.92	23.98
5550MHz	Pass	3.53	17.70	18.15	17.76	18.10	23.95	23.98
5670MHz	Pass	3.53	17.91	17.93	17.72	18.01	23.91	23.98
5710MHz Straddle 5.47-5.725GHz	Pass	3.53	17.59	18.07	17.39	17.88	23.76	23.98
5710MHz Straddle 5.725-5.85GHz	Pass	4.14	8.10	8.22	8.08	8.25	14.18	30.00
5755MHz	Pass	4.14	23.74	23.97	23.55	23.67	29.76	30.00
5795MHz	Pass	4.14	23.85	24.17	23.64	23.92	29.92	30.00
802.11ax HEW80-BF_Nss2,(MCS0)_4TX	-	-	-	-	-	-	-	-
5210MHz	Pass	3.38	23.80	23.36	23.57	23.24	29.52	30.00
5290MHz	Pass	2.90	17.94	17.99	17.77	17.62	23.85	23.98
5530MHz	Pass	3.53	17.65	18.05	17.59	17.83	23.80	23.98
5610MHz	Pass	3.53	17.79	17.94	17.52	18.00	23.84	23.98
5690MHz Straddle 5.47-5.725GHz	Pass	3.53	17.65	17.99	17.52	17.75	23.75	23.98
5690MHz Straddle 5.725-5.85GHz	Pass	4.14	4.51	4.72	4.91	4.63	10.72	30.00
5775MHz	Pass	4.14	23.97	24.18	23.71	23.86	29.95	30.00
802.11ax HEW160-BF_Nss2,(MCS0)_4TX	-	-	-	-	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	3.38	16.59	16.89	16.44	16.00	22.51	30.00
5250MHz Straddle 5.25-5.35GHz	Pass	2.90	16.90	16.37	16.58	16.54	22.62	23.98
5570MHz	Pass	3.53	17.65	17.97	17.57	17.74	23.76	23.98

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

802.11ax HEW20-BF_Nss2,(MCS0)_4TX AV Power

5720MHz Straddle 5.47-5.725GHz_TnomVnom

23/09/2022

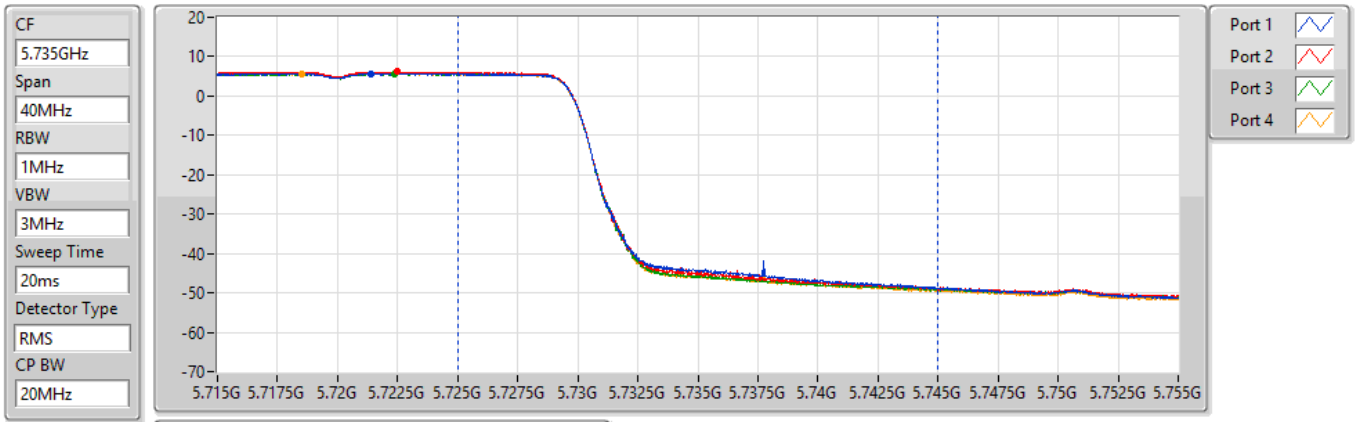


Sum(dBm)	P1(dBm)	P2(dBm)	P3(dBm)	P4(dBm)
22.80	16.70	17.00	16.57	16.85

802.11ax HEW20-BF_Nss2,(MCS0)_4TX AV Power

5720MHz Straddle 5.725-5.85GHz_TnomVnom

23/09/2022

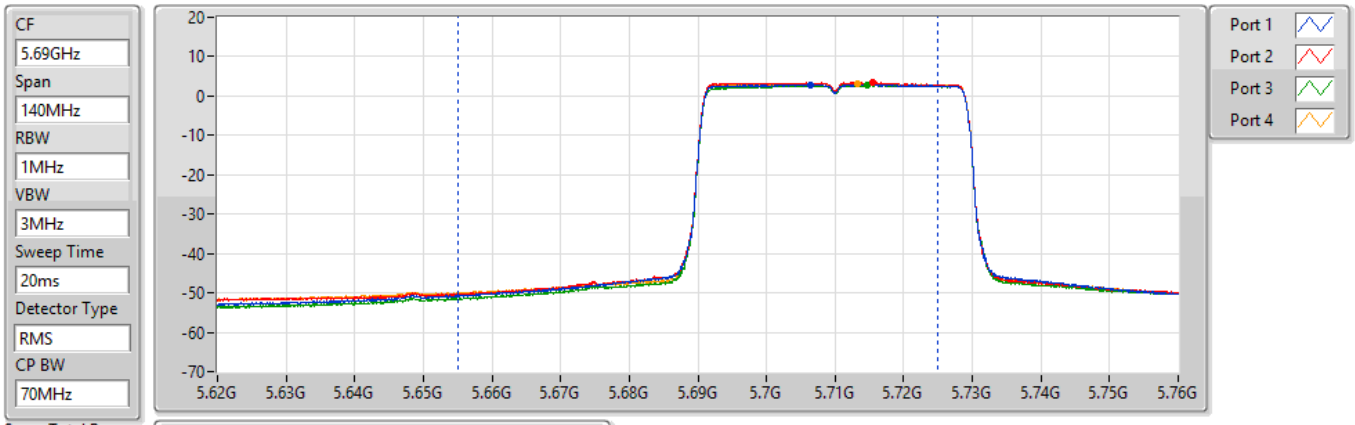


Sum(dBm)	P1(dBm)	P2(dBm)	P3(dBm)	P4(dBm)
17.73	11.62	11.97	11.65	11.57

802.11ax HEW40-BF_Nss2,(MCS0)_4TX AV Power

5710MHz Straddle 5.47-5.725GHz_TnomVnom

23/09/2022

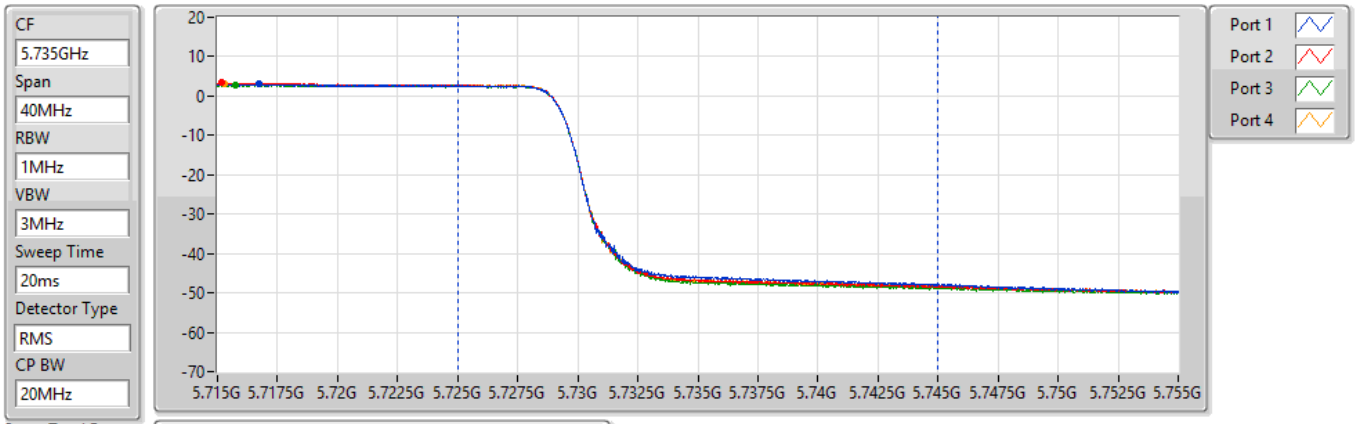


Sum(dBm)	P1(dBm)	P2(dBm)	P3(dBm)	P4(dBm)
23.76	17.59	18.07	17.39	17.88

802.11ax HEW40-BF_Nss2,(MCS0)_4TX AV Power

5710MHz Straddle 5.725-5.85GHz_TnomVnom

23/09/2022

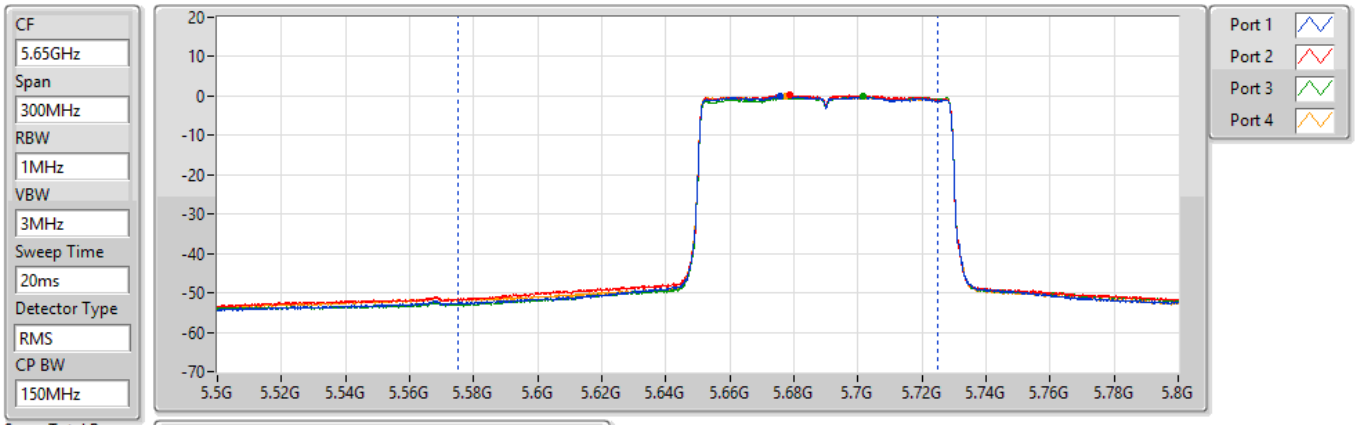


Sum(dBm)	P1(dBm)	P2(dBm)	P3(dBm)	P4(dBm)
14.18	8.10	8.22	8.08	8.25

802.11ax HEW80-BF_Nss2,(MCS0)_4TX AV Power

5690MHz Straddle 5.47-5.725GHz_TnomVnom

23/09/2022

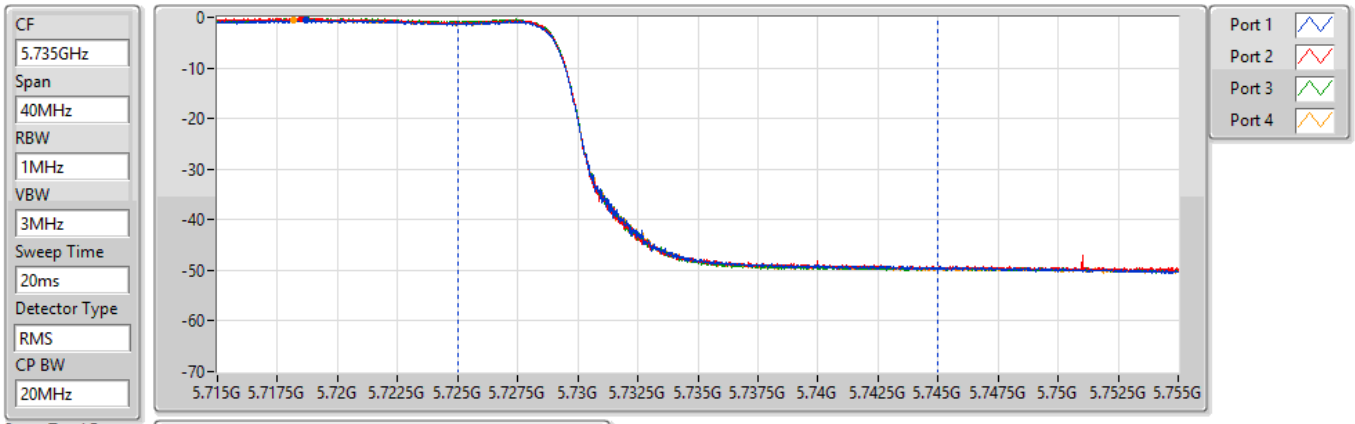


Sum(dBm)	P1(dBm)	P2(dBm)	P3(dBm)	P4(dBm)
23.75	17.65	17.99	17.52	17.75

802.11ax HEW80-BF_Nss2,(MCS0)_4TX AV Power

5690MHz Straddle 5.725-5.85GHz_TnomVnom

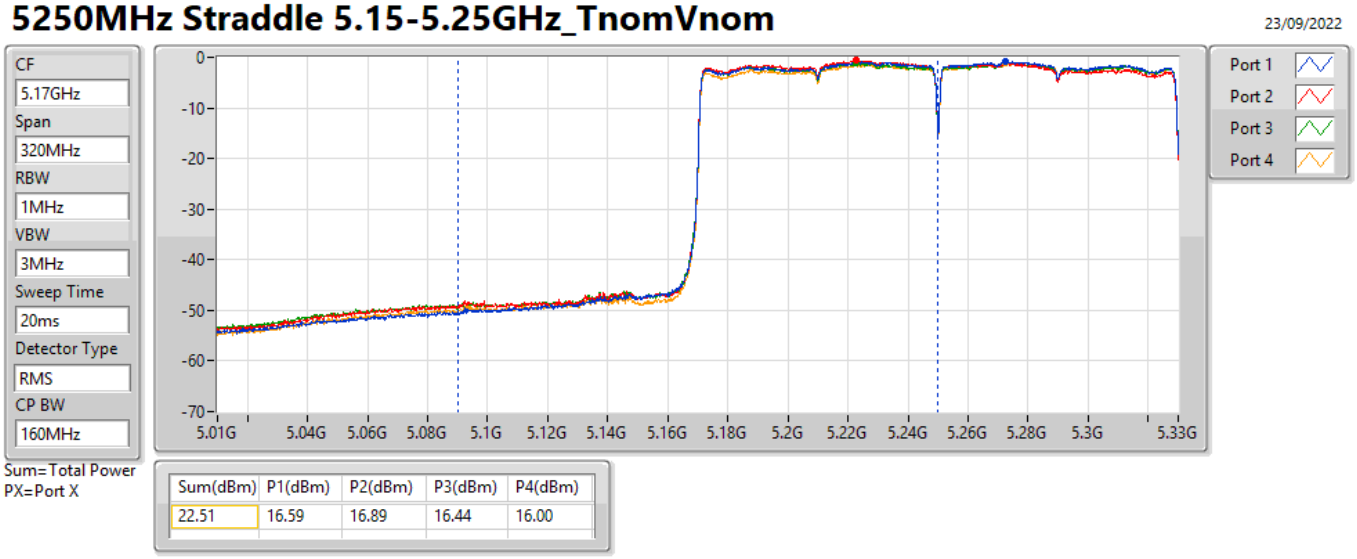
23/09/2022



Sum(dBm)	P1(dBm)	P2(dBm)	P3(dBm)	P4(dBm)
10.72	4.51	4.72	4.91	4.63

802.11ax HEW160-BF_Nss2,(MCS0)_4TX AV Power

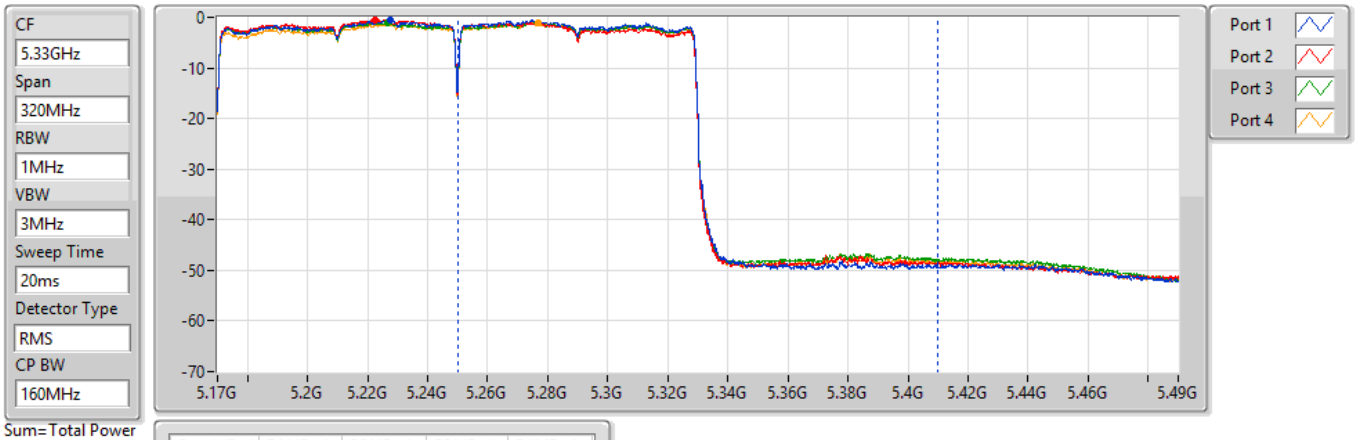
5250MHz Straddle 5.15-5.25GHz_TnomVnom



Sum(dBm)	P1(dBm)	P2(dBm)	P3(dBm)	P4(dBm)
22.51	16.59	16.89	16.44	16.00

802.11ax HEW160-BF_Nss2,(MCS0)_4TX AV Power

5250MHz Straddle 5.25-5.35GHz_TnomVnom



Sum(dBm)	P1(dBm)	P2(dBm)	P3(dBm)	P4(dBm)
22.62	16.90	16.37	16.58	16.54

Summary

Mode	PD (dBm/RBW)
5.15-5.25GHz	-
802.11a_Nss1,(6Mbps)_4TX	16.60
5.25-5.35GHz	-
802.11a_Nss1,(6Mbps)_4TX	10.99
5.47-5.725GHz	-
802.11a_Nss1,(6Mbps)_4TX	10.63
5.725-5.85GHz	-
802.11a_Nss1,(6Mbps)_4TX	15.09

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

Result

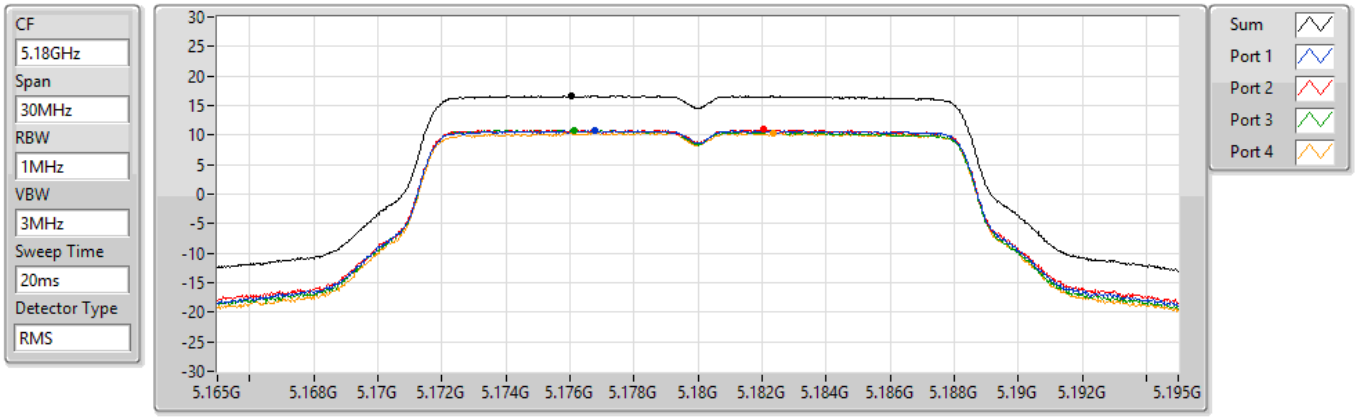
Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	Port 3 (dBm/RBW)	Port 4 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11a_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-
5180MHz	Pass	6.38	10.75	10.92	10.83	10.39	16.60	16.62
5200MHz	Pass	6.38	10.72	10.76	10.63	10.49	16.55	16.62
5240MHz	Pass	6.38	10.67	10.90	10.44	10.23	16.45	16.62
5260MHz	Pass	5.90	5.08	5.47	4.97	4.95	10.99	11.00
5300MHz	Pass	5.90	4.96	5.30	5.01	4.92	10.95	11.00
5320MHz	Pass	5.90	4.79	5.15	4.87	4.63	10.82	11.00
5500MHz	Pass	6.27	4.58	4.93	4.58	4.82	10.63	10.73
5580MHz	Pass	6.27	4.41	4.90	4.53	4.96	10.57	10.73
5700MHz	Pass	6.27	4.04	4.53	4.15	4.27	10.15	10.73
5720MHz Straddle 5.47-5.725GHz	Pass	6.27	4.40	4.96	4.39	4.57	10.55	10.73
5720MHz Straddle 5.725-5.85GHz	Pass	7.14	2.84	3.10	2.45	2.89	8.70	28.86
5745MHz	Pass	7.14	9.12	9.25	8.96	9.40	15.08	28.86
5785MHz	Pass	7.14	9.18	9.43	9.02	9.33	15.09	28.86
5825MHz	Pass	7.14	9.41	9.14	8.82	9.22	15.05	28.86

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

802.11a_Nss1,(6Mbps)_4TX PSD

5180MHz

22/09/2022

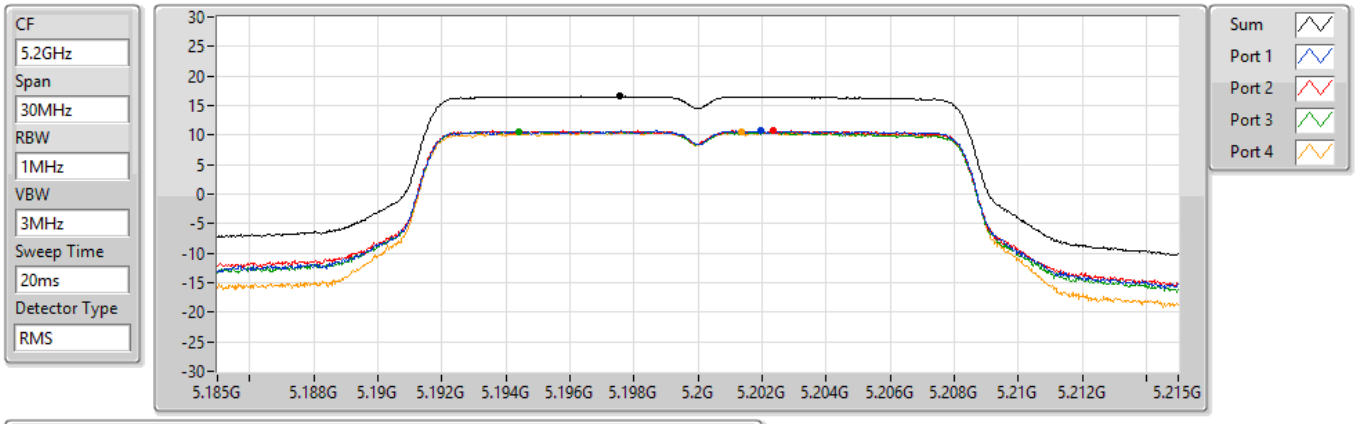


Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
16.60	16.60	10.75	10.92	10.83	10.39

802.11a_Nss1,(6Mbps)_4TX PSD

5200MHz

22/09/2022

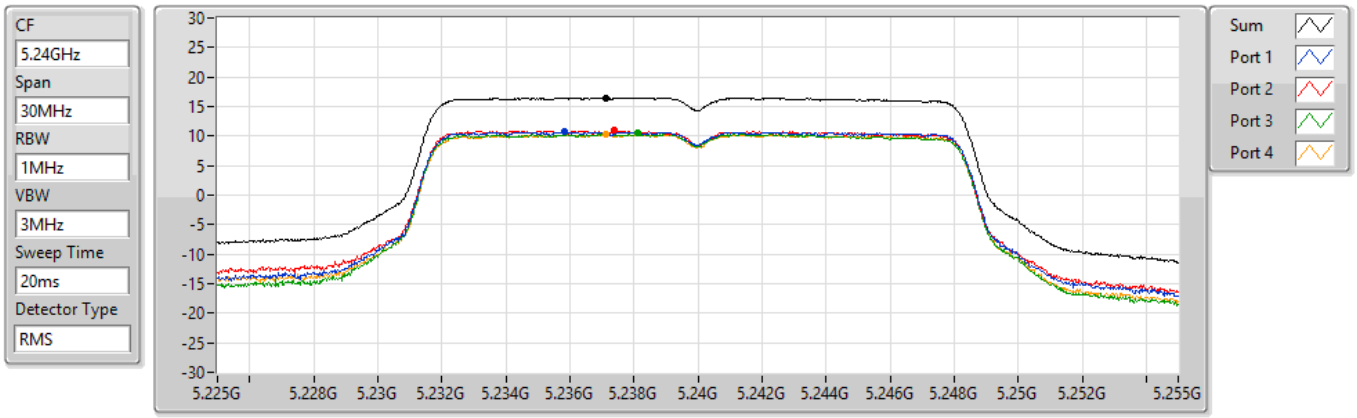


Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
16.55	16.55	10.72	10.76	10.63	10.49

802.11a_Nss1,(6Mbps)_4TX PSD

5240MHz

22/09/2022

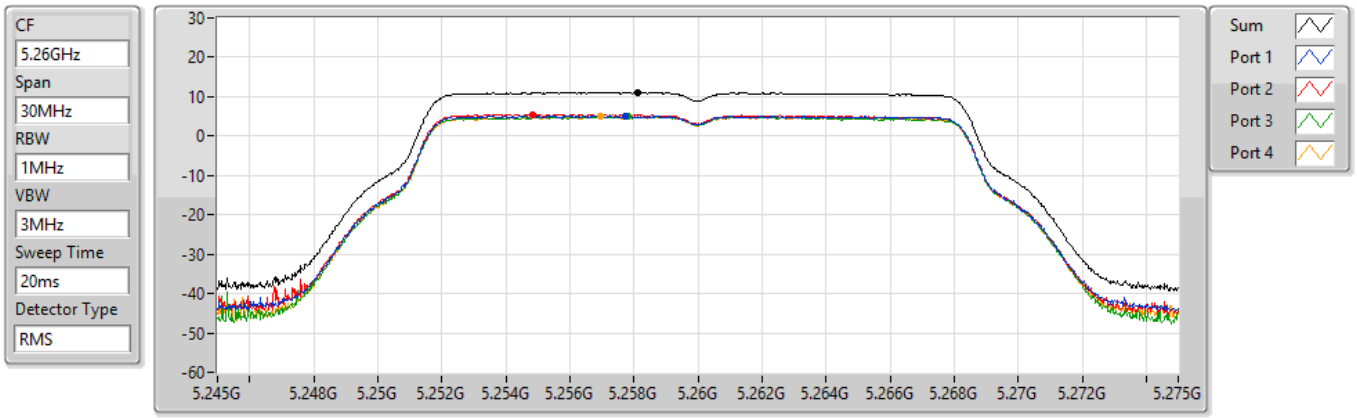


Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
16.45	16.45	10.67	10.90	10.44	10.23

802.11a_Nss1,(6Mbps)_4TX PSD

5260MHz

22/09/2022

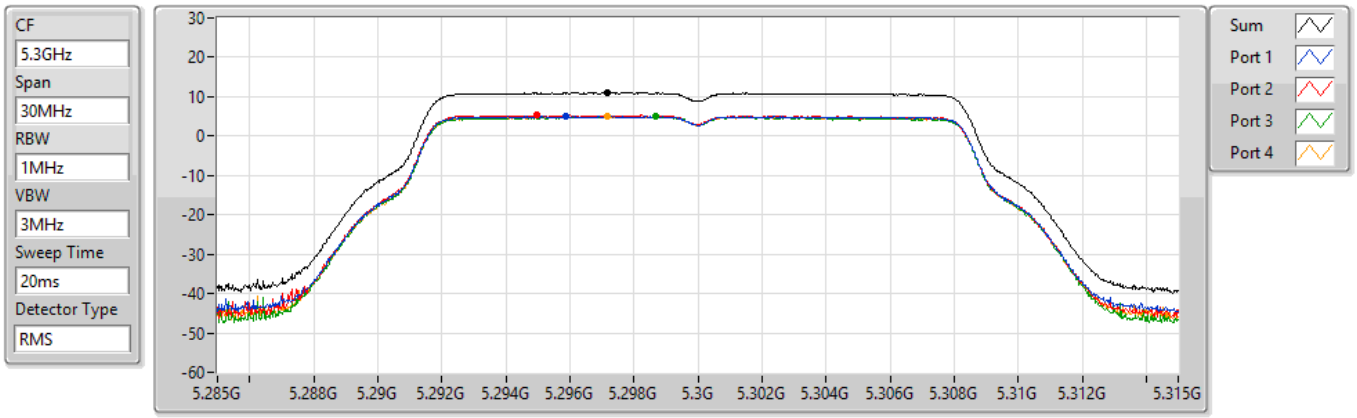


Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
10.99	10.99	5.08	5.47	4.97	4.95

802.11a_Nss1,(6Mbps)_4TX PSD

5300MHz

22/09/2022

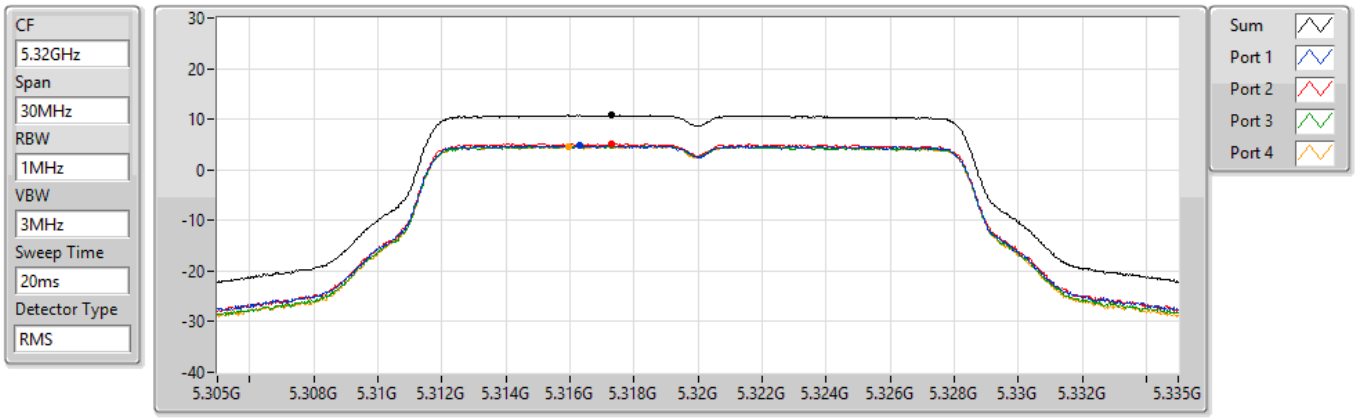


Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
10.95	10.95	4.96	5.30	5.01	4.92

802.11a_Nss1,(6Mbps)_4TX PSD

5320MHz

22/09/2022

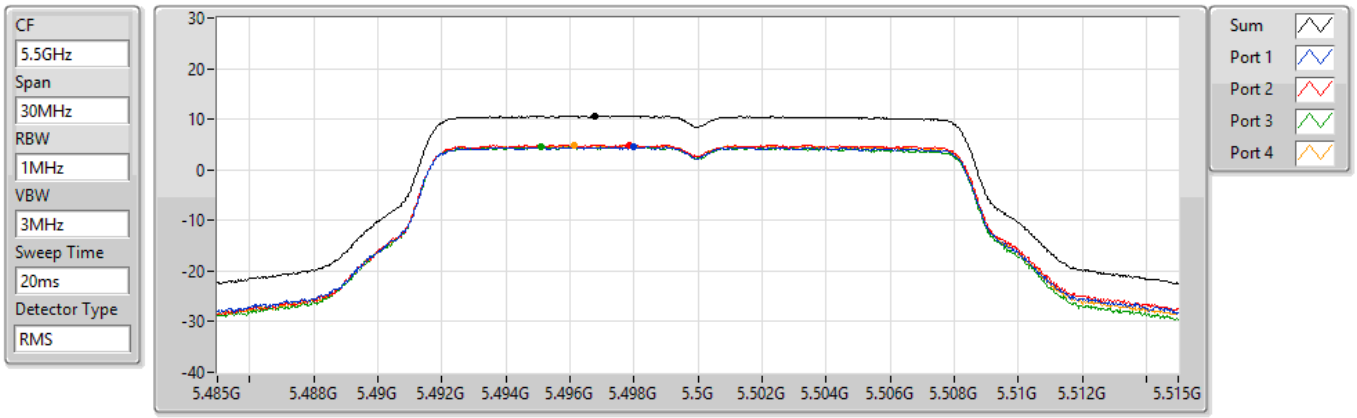


Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
10.82	10.82	4.79	5.15	4.87	4.63

802.11a_Nss1,(6Mbps)_4TX PSD

5500MHz

22/09/2022

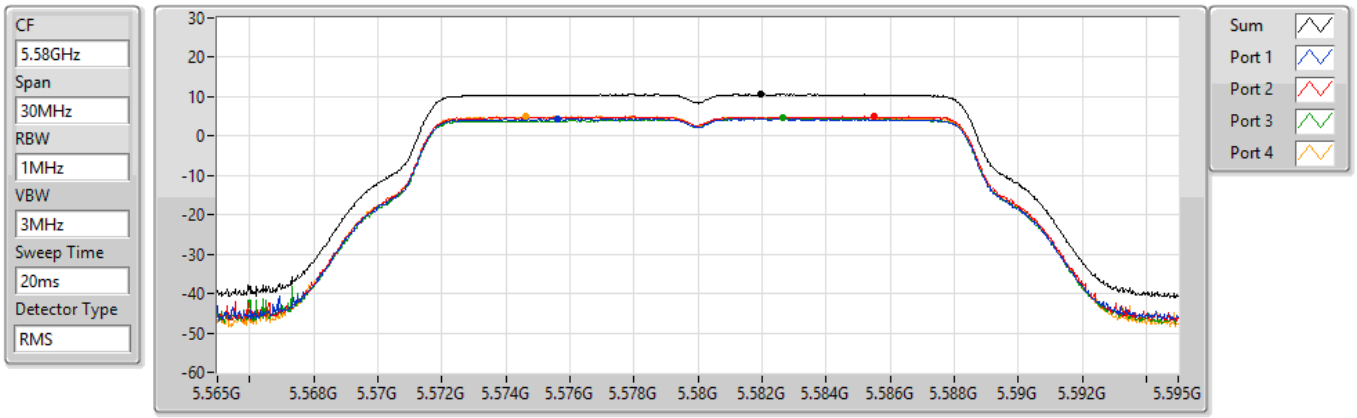


Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
10.63	10.63	4.58	4.93	4.58	4.82

802.11a_Nss1,(6Mbps)_4TX PSD

5580MHz

22/09/2022

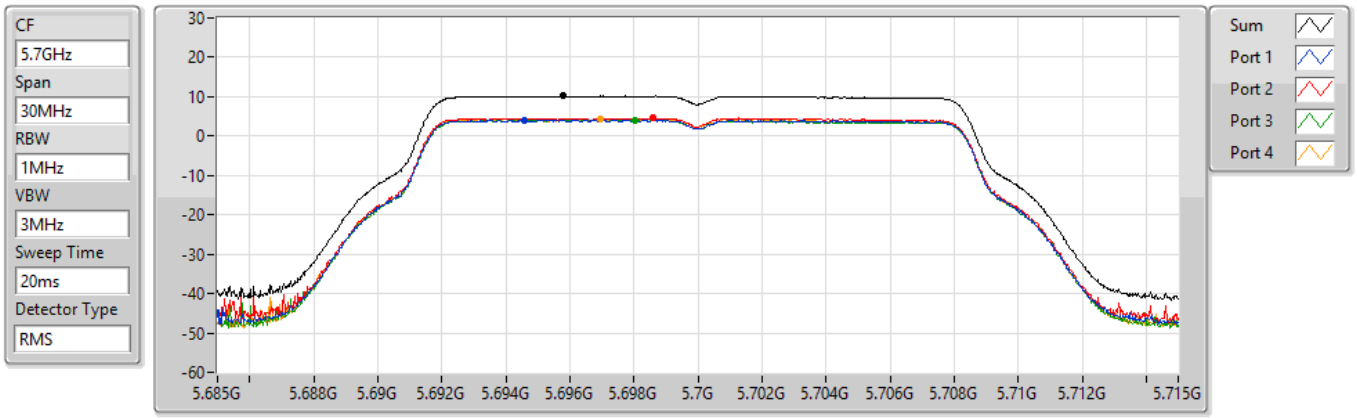


Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
10.57	10.57	4.41	4.90	4.53	4.96

802.11a_Nss1,(6Mbps)_4TX PSD

5700MHz

22/09/2022

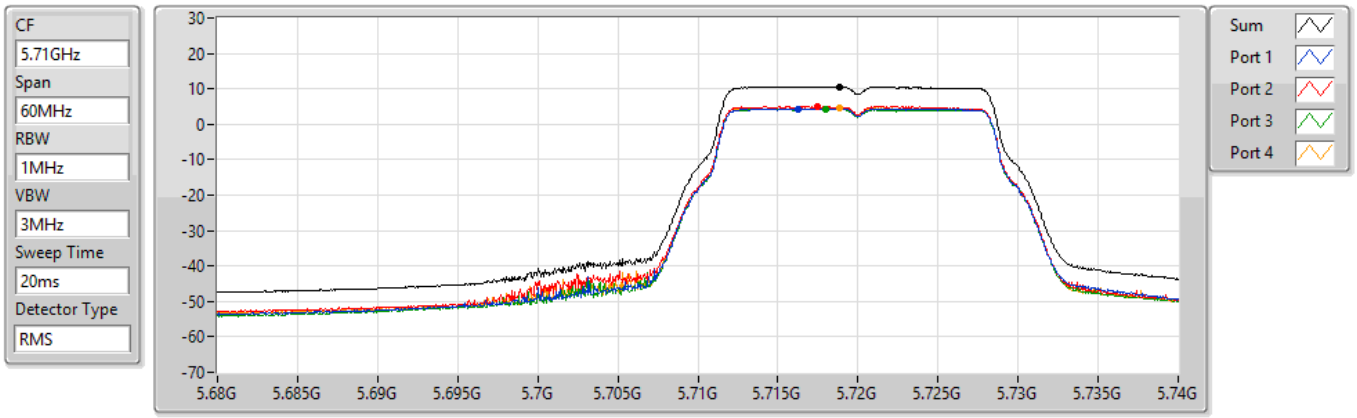


Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
10.15	10.15	4.04	4.53	4.15	4.27

802.11a_Nss1,(6Mbps)_4TX PSD

5720MHz Straddle 5.47-5.725GHz

22/09/2022

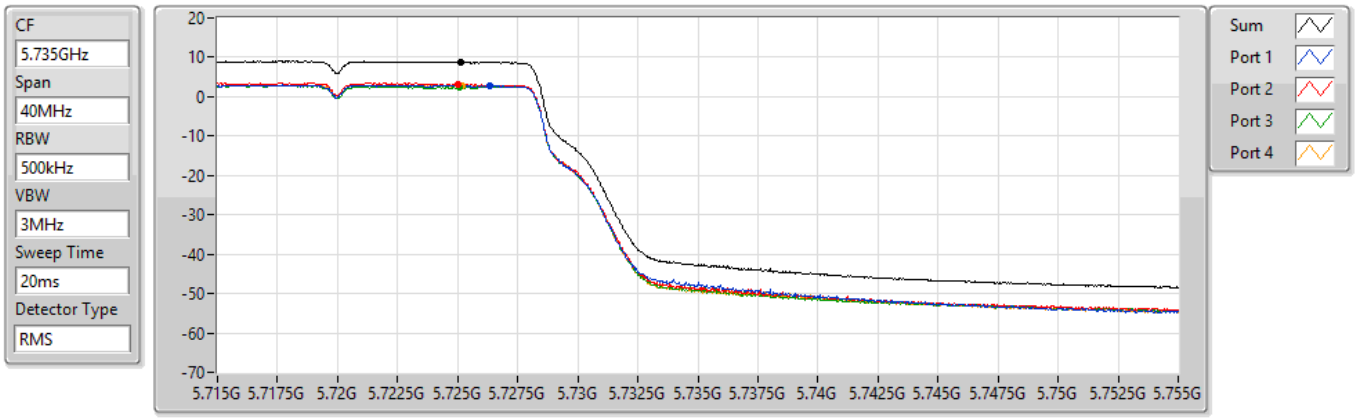


Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
10.55	10.55	4.40	4.96	4.39	4.57

802.11a_Nss1,(6Mbps)_4TX PSD

5720MHz Straddle 5.725-5.85GHz

22/09/2022

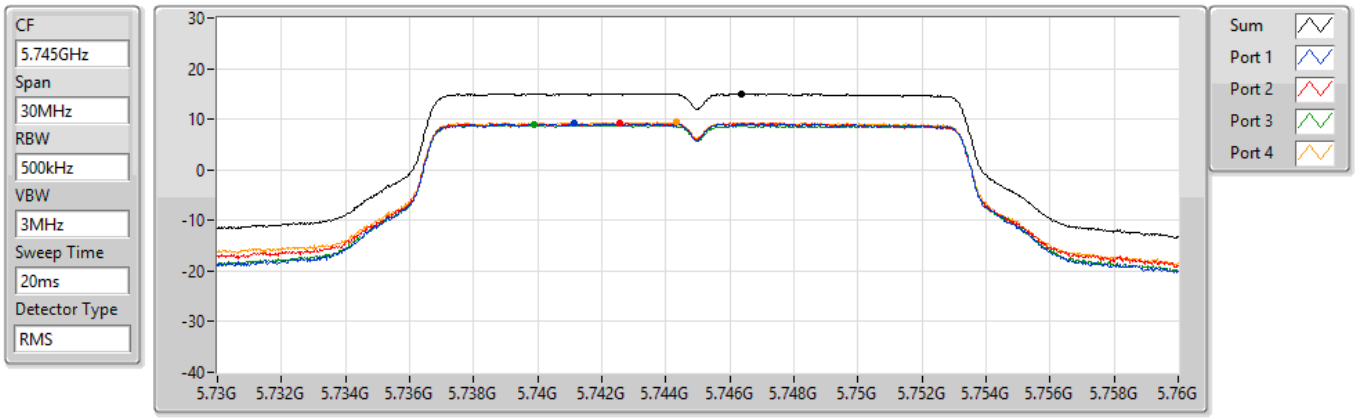


Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
8.70	8.70	2.84	3.10	2.45	2.89

802.11a_Nss1,(6Mbps)_4TX PSD

5745MHz

22/09/2022

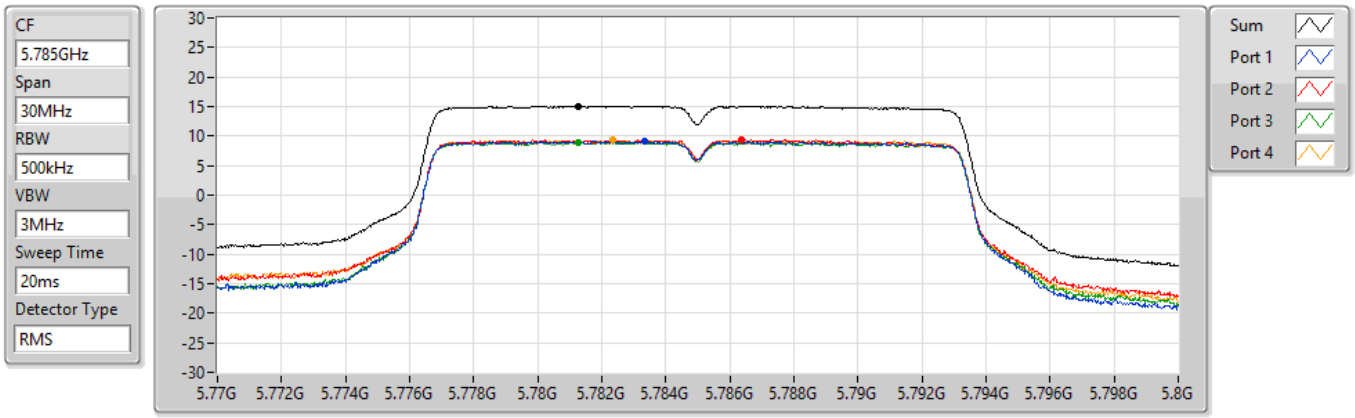


Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
15.08	15.08	9.12	9.25	8.96	9.40

802.11a_Nss1,(6Mbps)_4TX PSD

5785MHz

22/09/2022

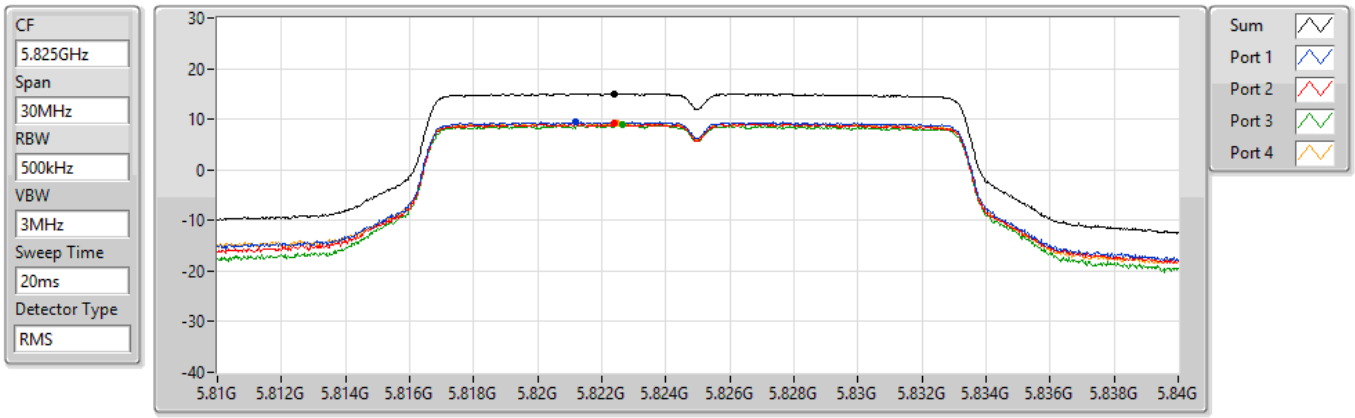


Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
15.09	15.09	9.18	9.43	9.02	9.33

802.11a_Nss1,(6Mbps)_4TX PSD

5825MHz

22/09/2022



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
15.05	15.05	9.41	9.14	8.82	9.22

Summary

Mode	PD (dBm/RBW)
5.15-5.25GHz	-
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	15.87
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	12.78
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	7.79
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	4.68
5.25-5.35GHz	-
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	10.19
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	7.34
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	4.39
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	4.49
5.47-5.725GHz	-
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	10.45
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	7.34
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	4.16
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	1.76
5.725-5.85GHz	-
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	13.48
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	10.68
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	7.86

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

Result

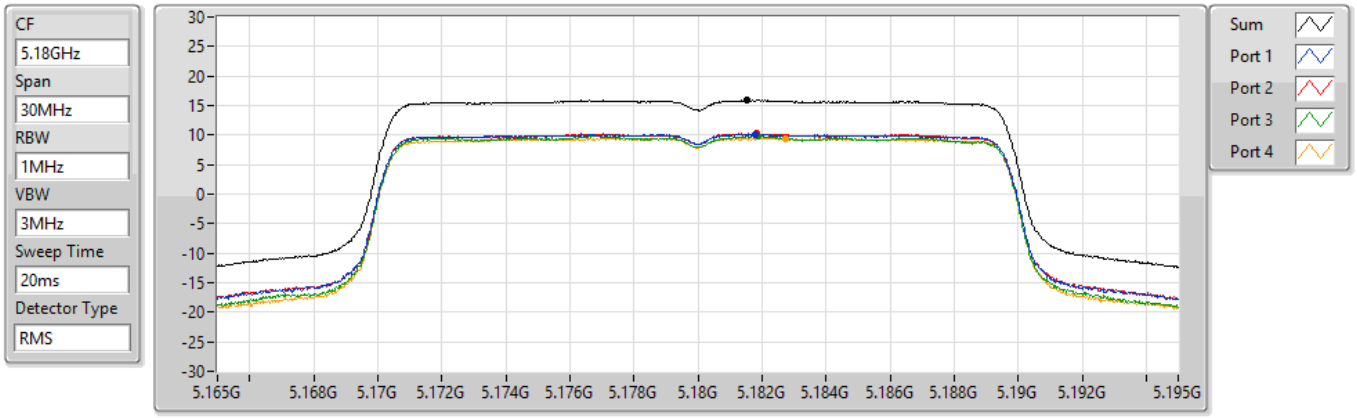
Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	Port 3 (dBm/RBW)	Port 4 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5180MHz	Pass	6.38	10.12	10.24	9.84	9.43	15.87	16.62
5200MHz	Pass	6.38	9.75	9.89	9.77	9.33	15.66	16.62
5240MHz	Pass	6.38	9.96	9.92	9.56	9.54	15.71	16.62
5260MHz	Pass	5.90	4.33	4.60	4.11	3.88	10.18	11.00
5300MHz	Pass	5.90	4.24	4.55	4.09	3.93	10.19	11.00
5320MHz	Pass	5.90	4.15	4.65	4.12	3.92	10.17	11.00
5500MHz	Pass	6.27	4.40	4.88	4.41	4.51	10.45	10.73
5580MHz	Pass	6.27	3.84	4.40	3.73	3.92	9.89	10.73
5700MHz	Pass	6.27	3.49	4.21	3.58	3.81	9.75	10.73
5720MHz Straddle 5.47-5.725GHz	Pass	6.27	3.73	4.34	4.05	4.00	9.99	10.73
5720MHz Straddle 5.725-5.85GHz	Pass	7.14	2.06	2.68	2.45	2.31	8.34	28.86
5745MHz	Pass	7.14	7.48	7.66	7.43	7.73	13.48	28.86
5785MHz	Pass	7.14	7.19	7.65	7.34	7.45	13.32	28.86
5825MHz	Pass	7.14	7.69	7.32	7.09	7.30	13.29	28.86
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5190MHz	Pass	6.38	6.66	6.74	6.20	5.95	12.32	16.62
5230MHz	Pass	6.38	6.87	7.16	6.69	6.61	12.78	16.62
5270MHz	Pass	5.90	1.40	1.72	1.47	1.22	7.34	11.00
5310MHz	Pass	5.90	1.44	1.53	1.14	1.12	7.25	11.00
5510MHz	Pass	6.27	0.89	1.50	1.17	1.20	7.09	10.73
5550MHz	Pass	6.27	0.97	1.57	1.02	1.33	7.13	10.73
5670MHz	Pass	6.27	0.97	1.32	1.14	1.34	7.13	10.73
5710MHz Straddle 5.47-5.725GHz	Pass	6.27	1.12	1.74	1.23	1.38	7.34	10.73
5710MHz Straddle 5.725-5.85GHz	Pass	7.14	-0.73	-0.18	-0.55	-0.52	5.46	28.86
5755MHz	Pass	7.14	4.77	5.09	4.64	4.87	10.68	28.86
5795MHz	Pass	7.14	4.53	5.00	4.47	4.69	10.57	28.86
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5210MHz	Pass	6.38	2.31	1.94	1.77	1.14	7.79	16.62
5290MHz	Pass	5.90	-1.42	-1.33	-1.57	-1.70	4.39	11.00
5530MHz	Pass	6.27	-1.90	-1.42	-1.76	-1.81	4.13	10.73
5610MHz	Pass	6.27	-2.15	-1.81	-2.23	-1.92	3.90	10.73
5690MHz Straddle 5.47-5.725GHz	Pass	6.27	-1.71	-1.51	-1.86	-1.78	4.16	10.73
5690MHz Straddle 5.725-5.85GHz	Pass	7.14	-4.02	-3.79	-3.58	-4.17	2.10	28.86
5775MHz	Pass	7.14	1.90	2.28	1.68	2.02	7.86	28.86
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	6.38	-1.27	-0.73	-1.17	-1.72	4.68	16.62
5250MHz Straddle 5.25-5.35GHz	Pass	5.90	-1.26	-1.45	-1.51	-1.33	4.49	11.00
5570MHz	Pass	6.27	-4.33	-3.83	-4.32	-4.06	1.76	10.73

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

802.11ax HEW20-BF_Nss1,(MCS0)_4TX PSD

5180MHz

22/09/2022

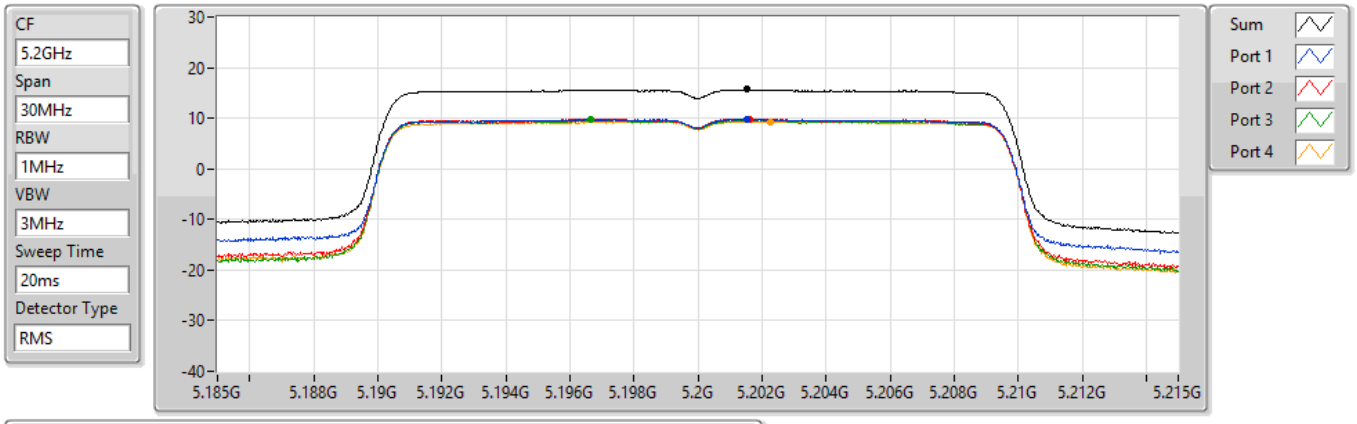


Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
15.87	15.87	10.12	10.24	9.84	9.43

802.11ax HEW20-BF_Nss1,(MCS0)_4TX PSD

5200MHz

22/09/2022

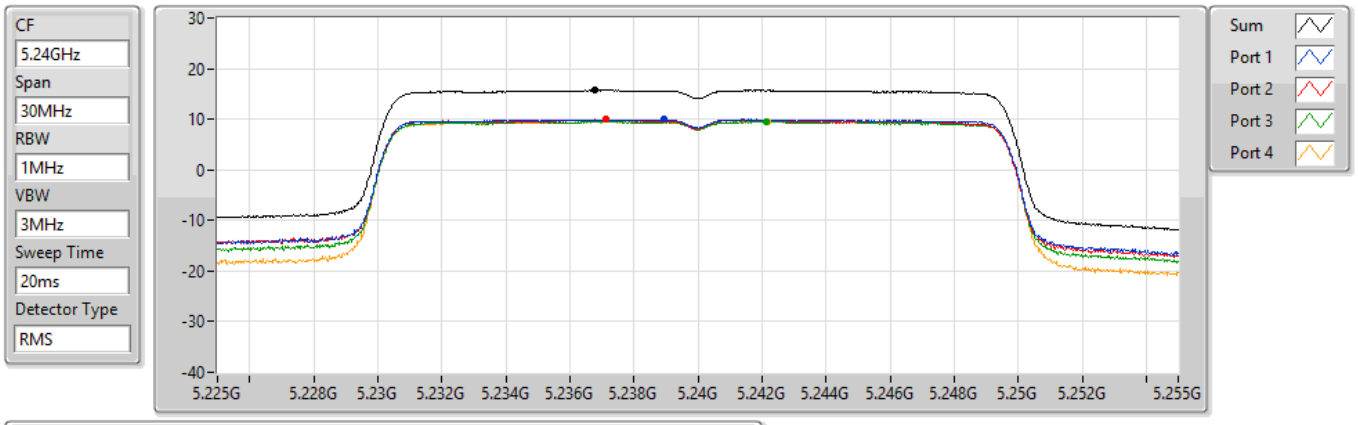


Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
15.66	15.66	9.75	9.89	9.77	9.33

802.11ax HEW20-BF_Nss1,(MCS0)_4TX PSD

5240MHz

22/09/2022

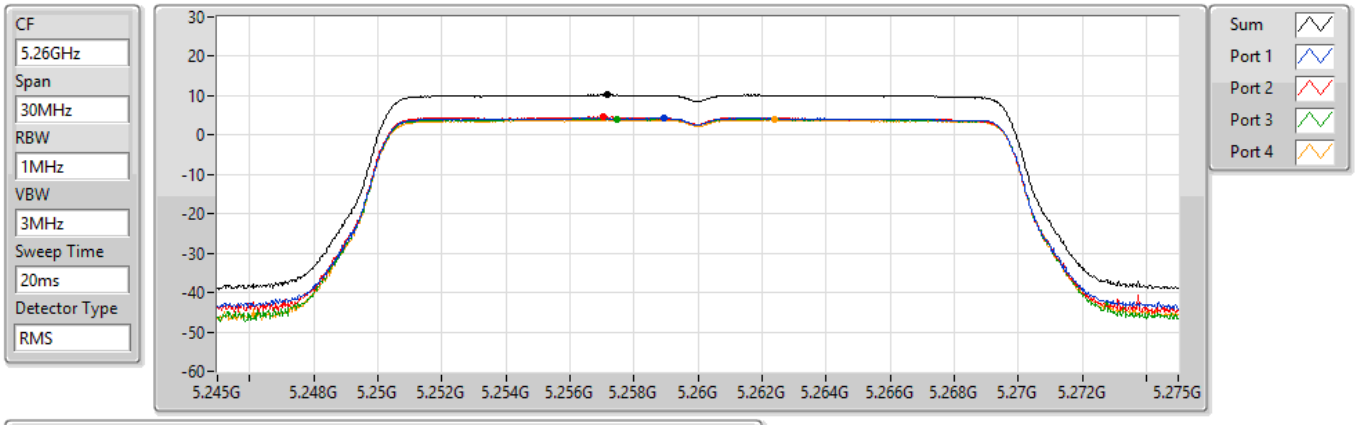


Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
15.71	15.71	9.96	9.92	9.56	9.54

802.11ax HEW20-BF_Nss1,(MCS0)_4TX PSD

5260MHz

22/09/2022

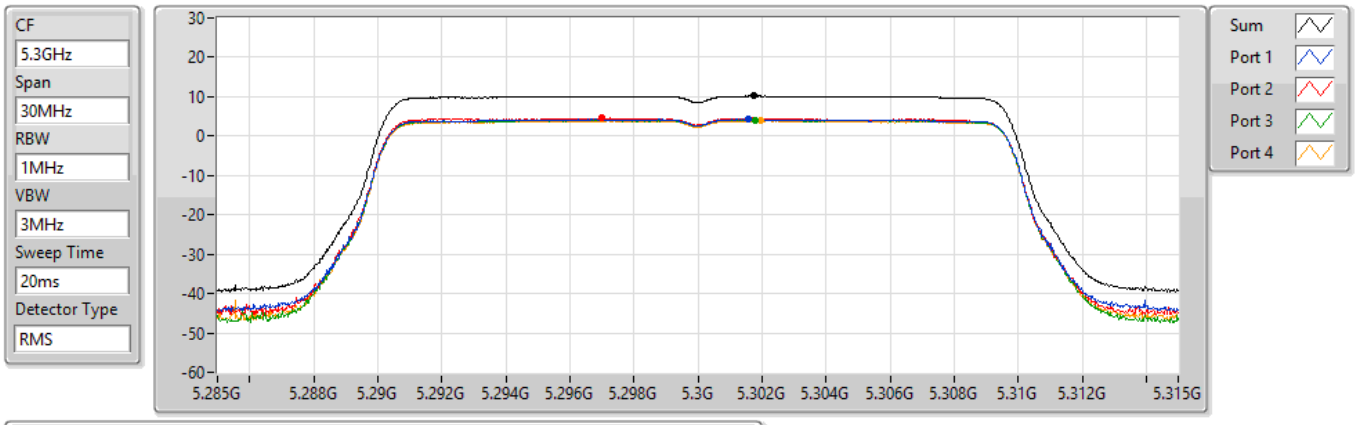


Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
10.18	10.18	4.33	4.60	4.11	3.88

802.11ax HEW20-BF_Nss1,(MCS0)_4TX PSD

5300MHz

22/09/2022

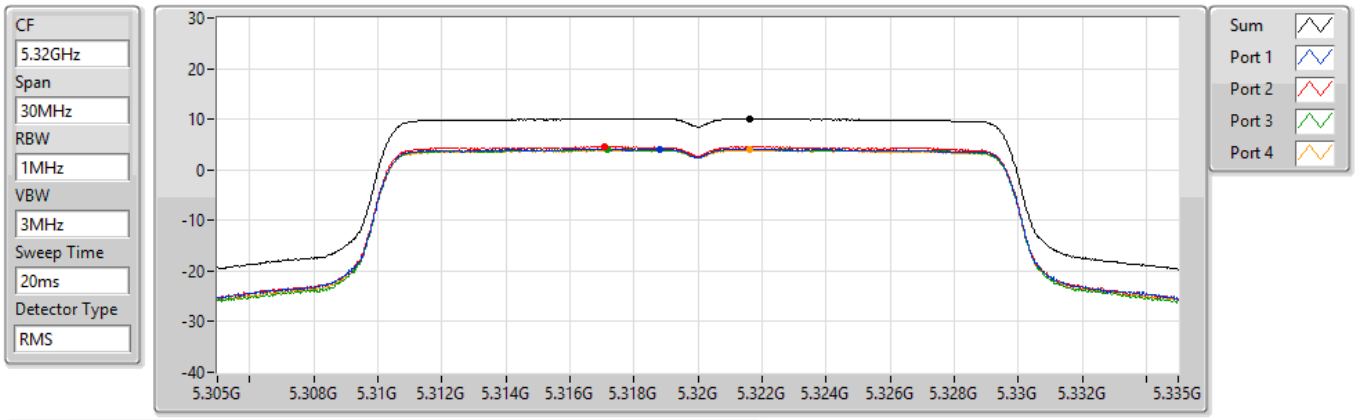


Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
10.19	10.19	4.24	4.55	4.09	3.93

802.11ax HEW20-BF_Nss1,(MCS0)_4TX PSD

5320MHz

22/09/2022

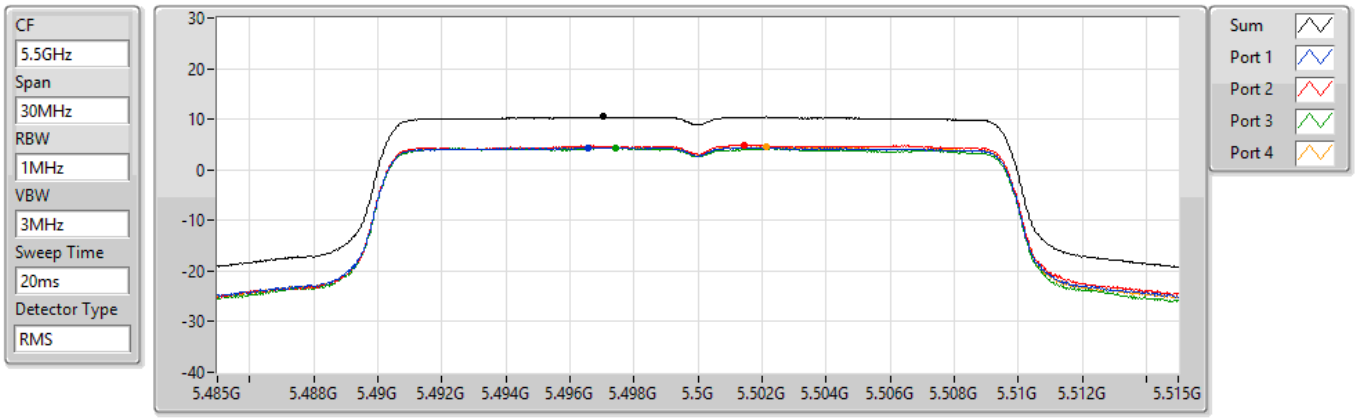


Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
10.17	10.17	4.15	4.65	4.12	3.92

802.11ax HEW20-BF_Nss1,(MCS0)_4TX PSD

5500MHz

22/09/2022

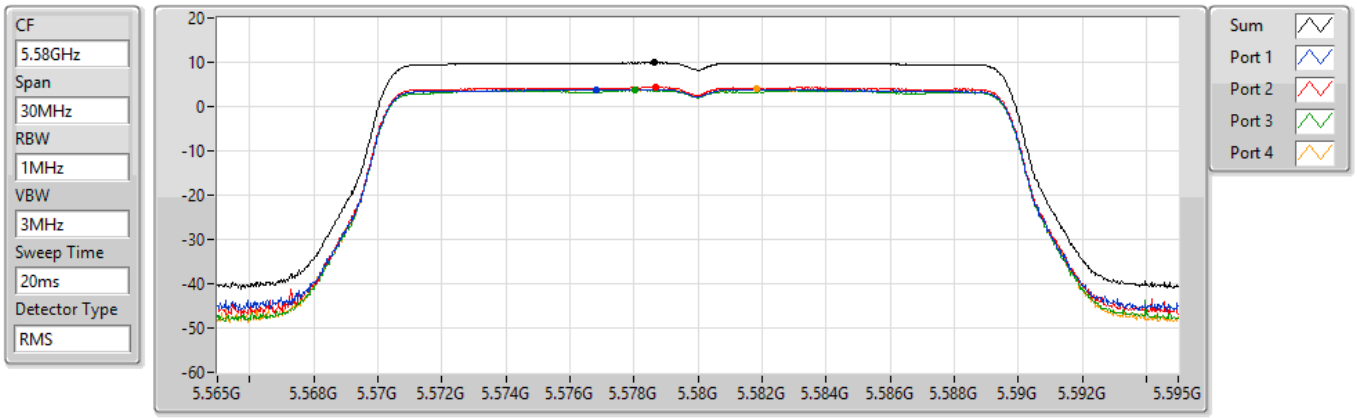


Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
10.45	10.45	4.40	4.88	4.41	4.51

802.11ax HEW20-BF_Nss1,(MCS0)_4TX PSD

5580MHz

22/09/2022

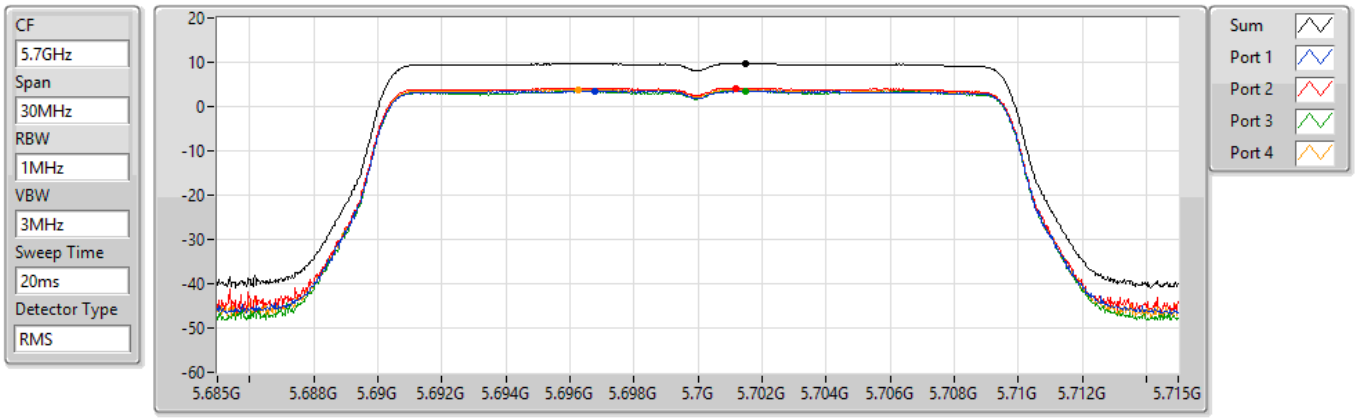


Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
9.89	9.89	3.84	4.40	3.73	3.92

802.11ax HEW20-BF_Nss1,(MCS0)_4TX PSD

5700MHz

22/09/2022

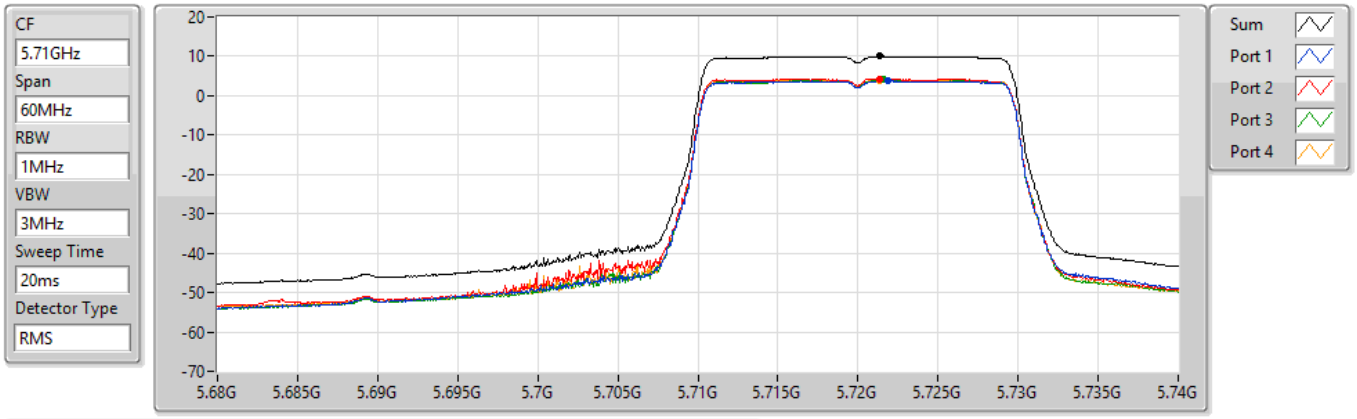


Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
9.75	9.75	3.49	4.21	3.58	3.81

802.11ax HEW20-BF_Nss1,(MCS0)_4TX PSD

5720MHz Straddle 5.47-5.725GHz

22/09/2022

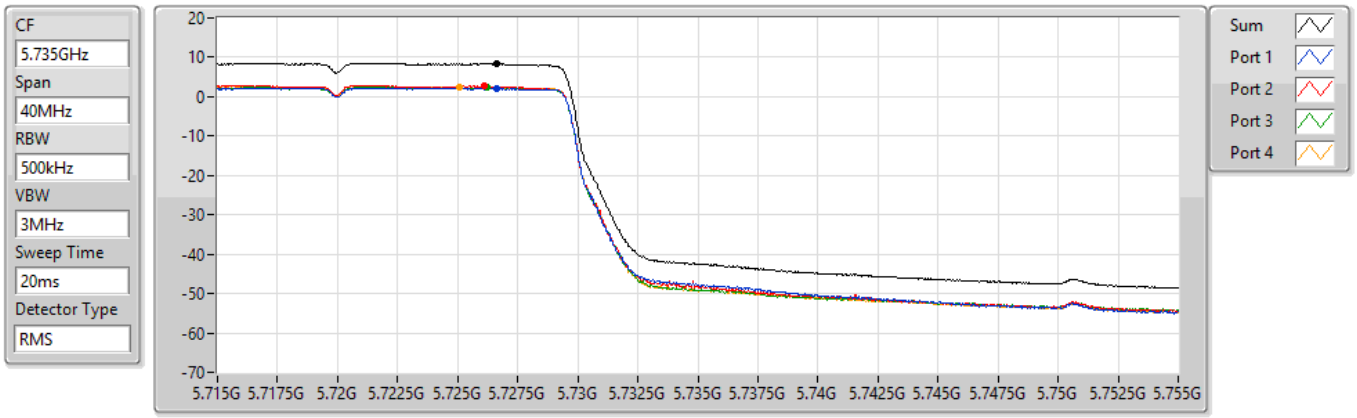


Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
9.99	9.99	3.73	4.34	4.05	4.00

802.11ax HEW20-BF_Nss1,(MCS0)_4TX PSD

5720MHz Straddle 5.725-5.85GHz

22/09/2022

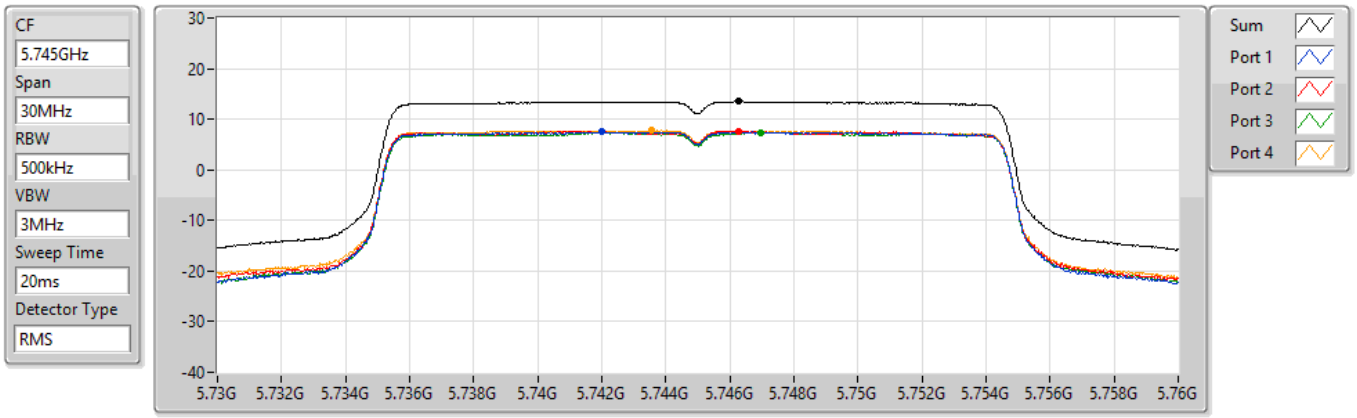


Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
8.34	8.34	2.06	2.68	2.45	2.31

802.11ax HEW20-BF_Nss1,(MCS0)_4TX PSD

5745MHz

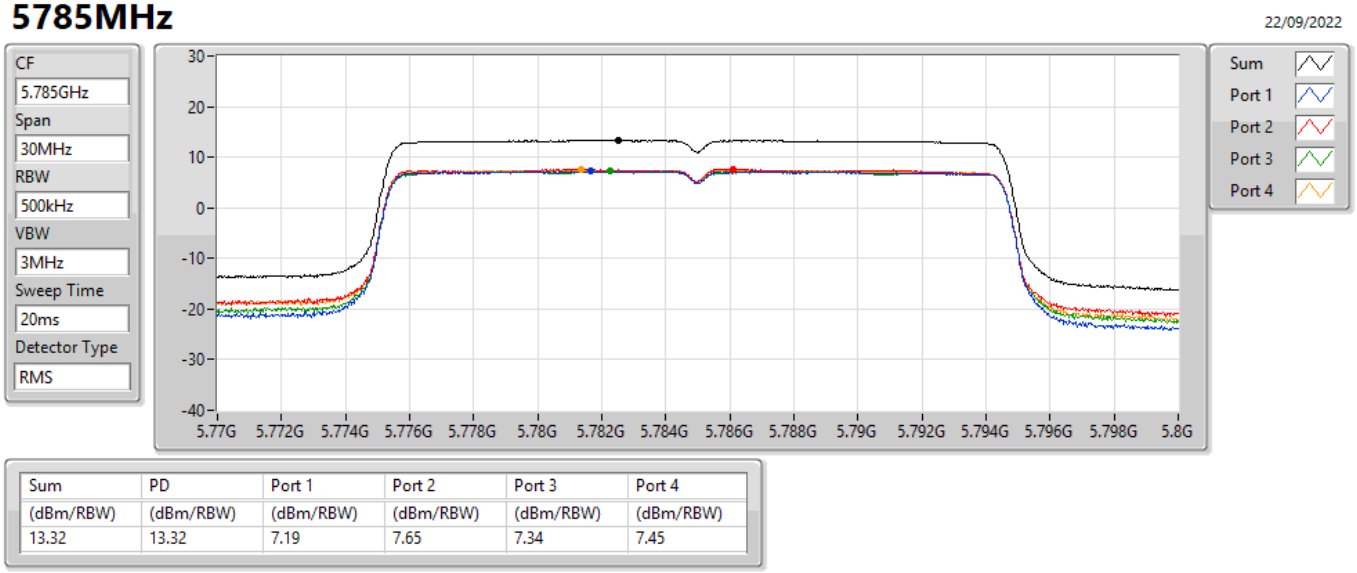
22/09/2022



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
13.48	13.48	7.48	7.66	7.43	7.73

802.11ax HEW20-BF_Nss1,(MCS0)_4TX PSD

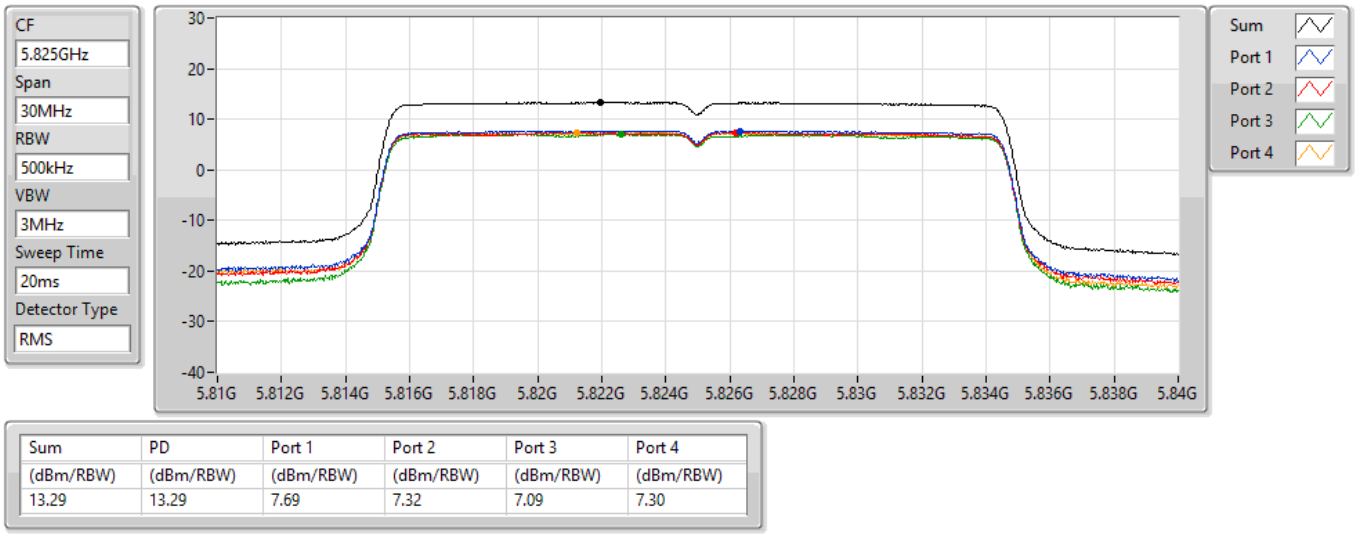
5785MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
13.32	13.32	7.19	7.65	7.34	7.45

802.11ax HEW20-BF_Nss1,(MCS0)_4TX PSD

5825MHz

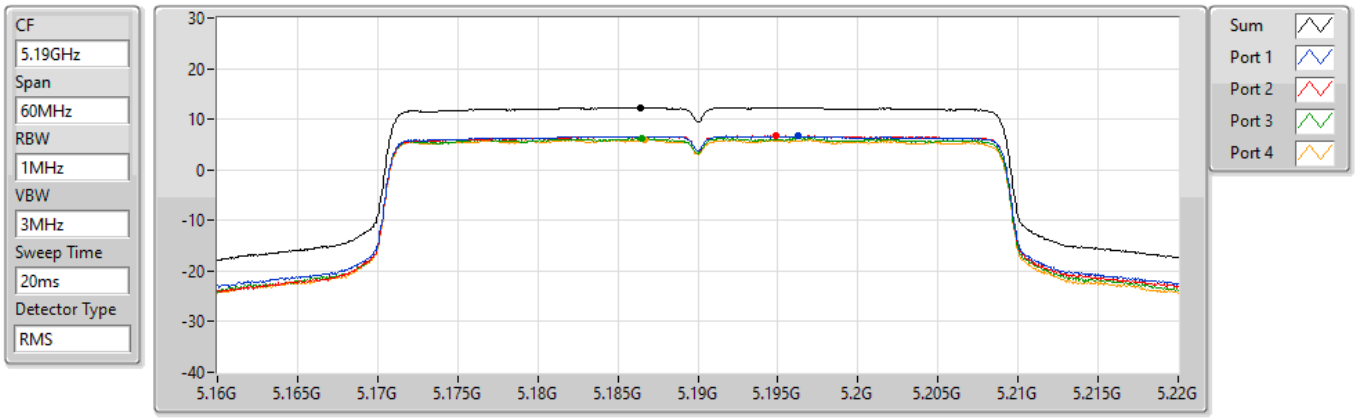


Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
13.29	13.29	7.69	7.32	7.09	7.30

802.11ax HEW40-BF_Nss1,(MCS0)_4TX PSD

5190MHz

29/09/2022

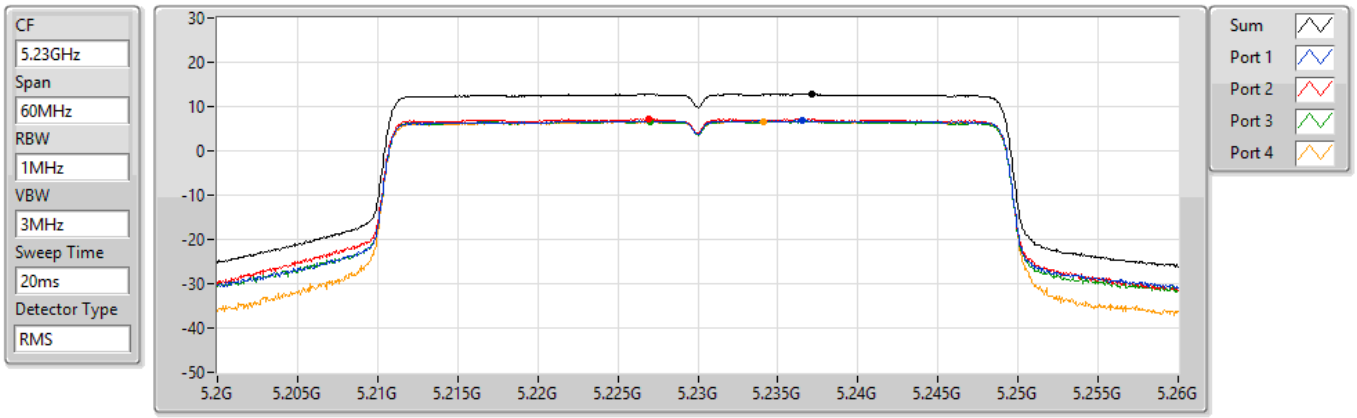


Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
12.32	12.32	6.66	6.74	6.20	5.95

802.11ax HEW40-BF_Nss1,(MCS0)_4TX PSD

5230MHz

22/09/2022

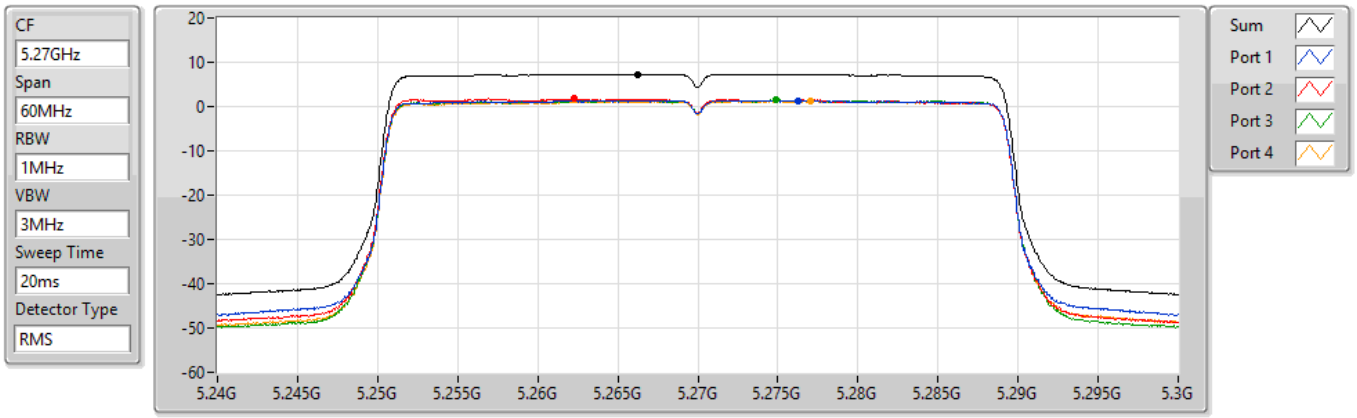


Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
12.78	12.78	6.87	7.16	6.69	6.61

802.11ax HEW40-BF_Nss1,(MCS0)_4TX PSD

5270MHz

22/09/2022

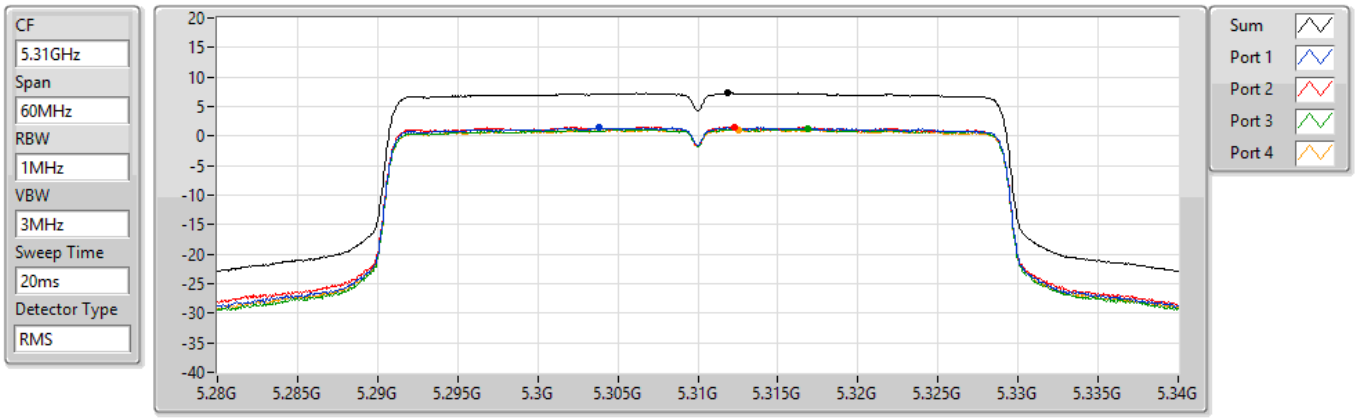


Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
7.34	7.34	1.40	1.72	1.47	1.22

802.11ax HEW40-BF_Nss1,(MCS0)_4TX PSD

5310MHz

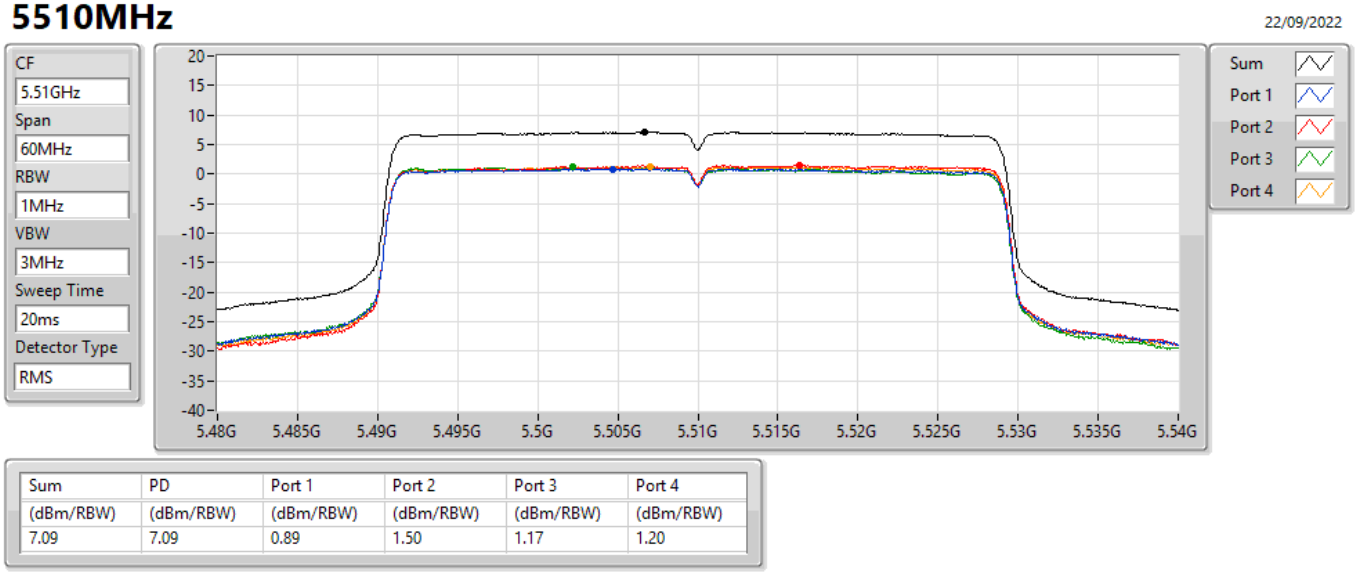
22/09/2022



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
7.25	7.25	1.44	1.53	1.14	1.12

802.11ax HEW40-BF_Nss1,(MCS0)_4TX PSD

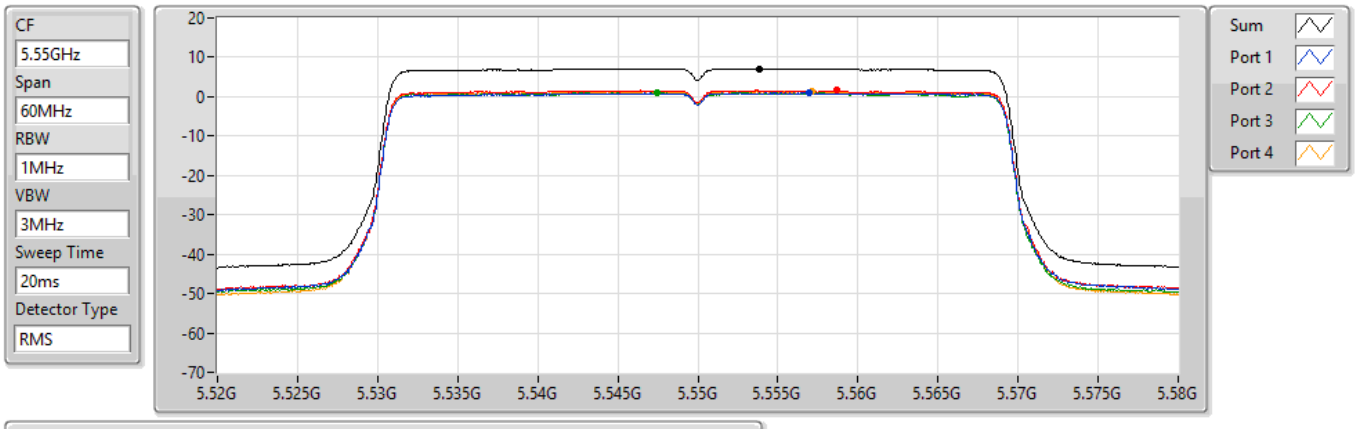
5510MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
7.09	7.09	0.89	1.50	1.17	1.20

802.11ax HEW40-BF_Nss1,(MCS0)_4TX PSD

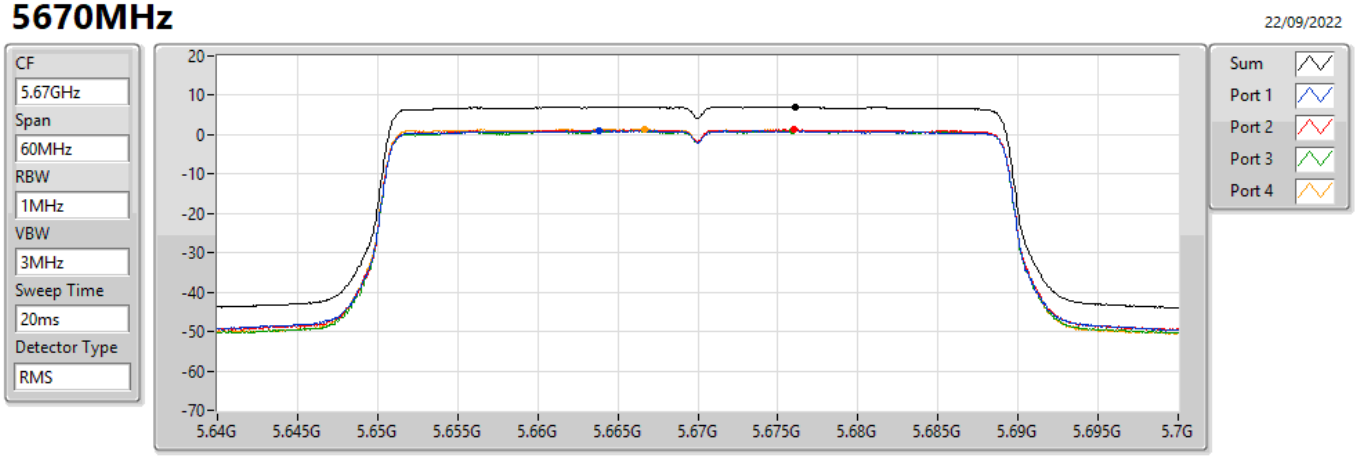
5550MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
7.13	7.13	0.97	1.57	1.02	1.33

802.11ax HEW40-BF_Nss1,(MCS0)_4TX PSD

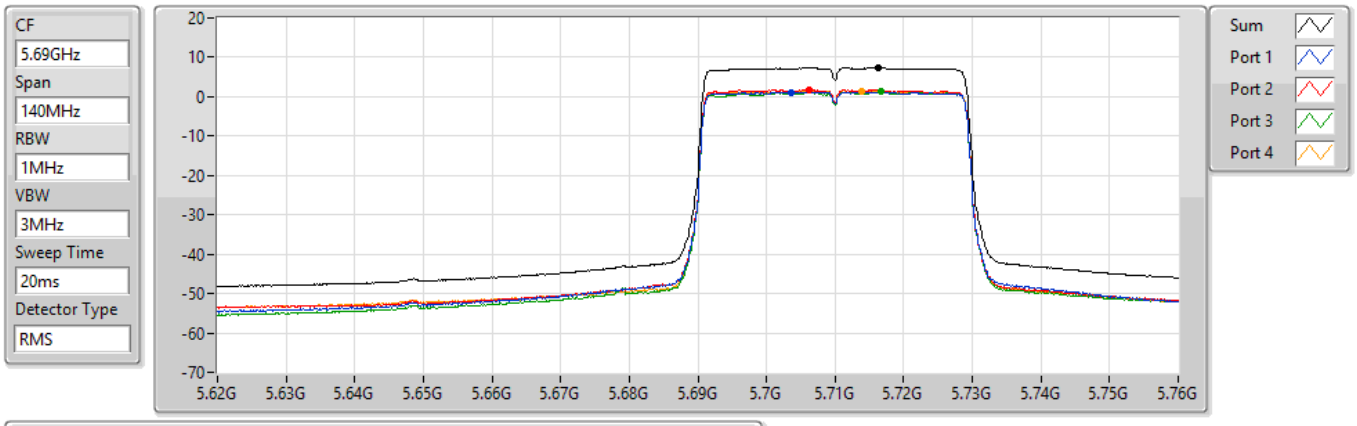
5670MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
7.13	7.13	0.97	1.32	1.14	1.34

802.11ax HEW40-BF_Nss1,(MCS0)_4TX PSD

5710MHz Straddle 5.47-5.725GHz

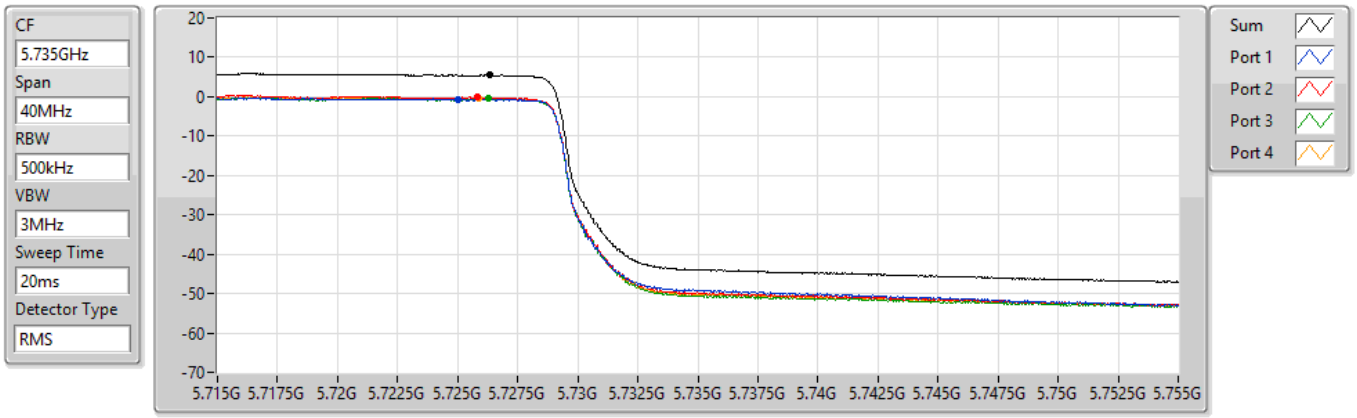


Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
7.34	7.34	1.12	1.74	1.23	1.38

802.11ax HEW40-BF_Nss1,(MCS0)_4TX PSD

5710MHz Straddle 5.725-5.85GHz

22/09/2022

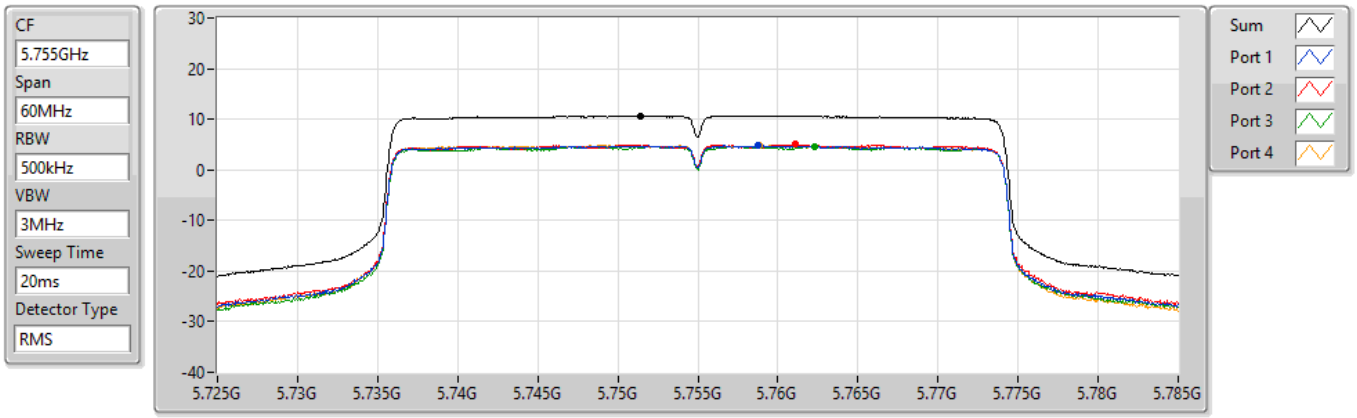


Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
5.46	5.46	-0.73	-0.18	-0.55	-0.52

802.11ax HEW40-BF_Nss1,(MCS0)_4TX PSD

5755MHz

22/09/2022

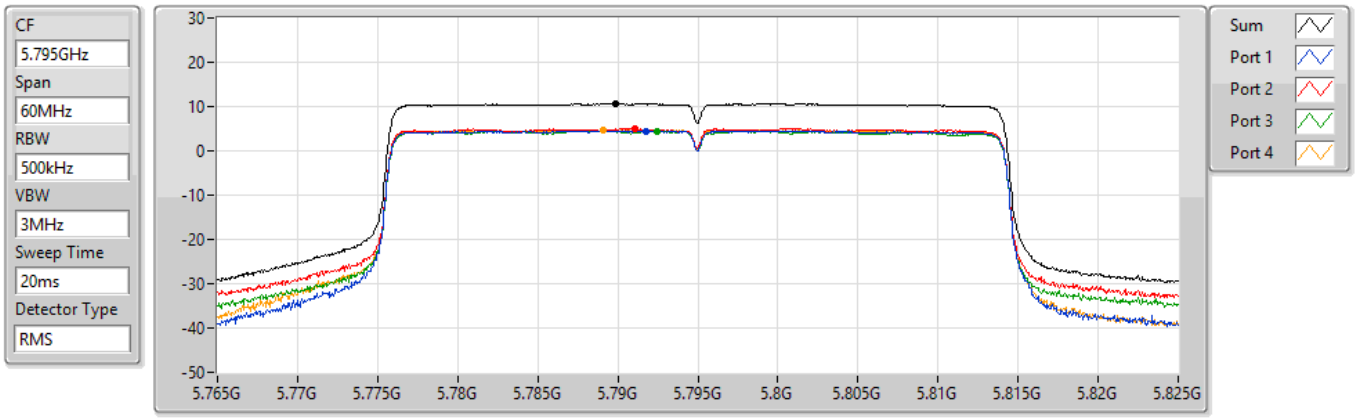


Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
10.68	10.68	4.77	5.09	4.64	4.87

802.11ax HEW40-BF_Nss1,(MCS0)_4TX PSD

5795MHz

22/09/2022

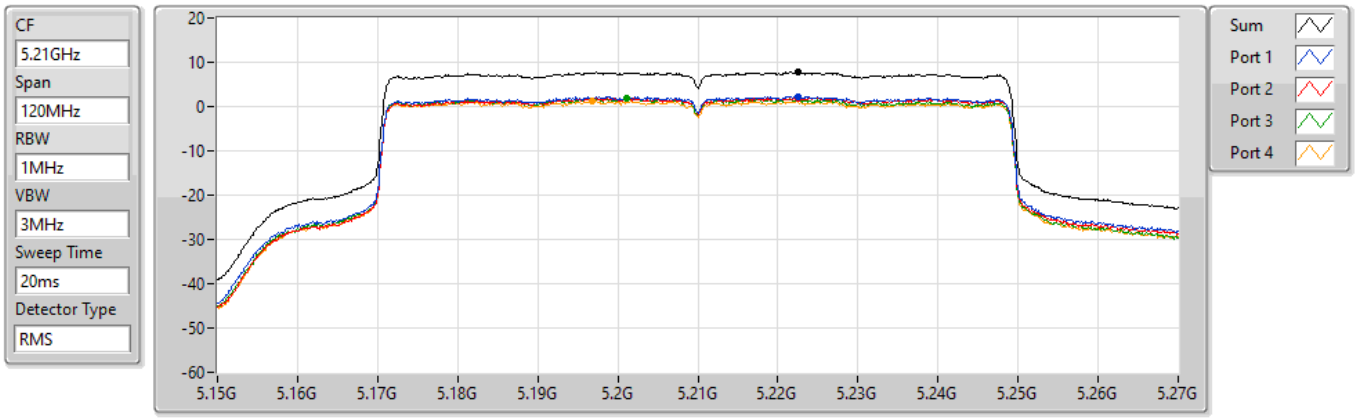


Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
10.57	10.57	4.53	5.00	4.47	4.69

802.11ax HEW80-BF_Nss1,(MCS0)_4TX PSD

5210MHz

29/09/2022



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
7.79	7.79	2.31	1.94	1.77	1.14