

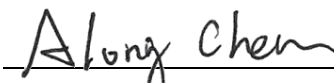
FCC Test Report

FCC ID : HDC-17600070F1
Equipment : WiFi 6 2.5G Router
(Refer to item 1.1.1 for more details)
Model No. : SDG-8612
(Refer to item 1.1.1 for more details)
Brand Name : Adtran
Applicant : Adtran
Address : 901 Explorer Boulevard, Huntsville, Alabama,
United States, 35806-2807
Standard : 47 CFR FCC Part 15.407
Received Date : Apr. 18, 2023
Tested Date : Apr. 19 ~ May 05, 2023

We, International Certification Corporation, would like to declare that the tested sample has been evaluated and in compliance with the requirement of the above standards. The test results contained in this report refer exclusively to the product. It shall not be reproduced except in full without the written approval of our laboratory.

Reviewed by:

Approved by:



Along Chen / Assistant Manager



Gary Chang / Manager

Table of Contents

1	GENERAL DESCRIPTION	5
1.1	Information.....	5
1.2	Local Support Equipment List	11
1.3	Test Setup Chart	12
1.4	The Equipment List	16
1.5	Test Standards	17
1.6	Reference Guidance	17
1.7	Deviation from Test Standard and Measurement Procedure.....	17
1.8	Measurement Uncertainty	18
2	TEST CONFIGURATION.....	19
2.1	Testing Facility	19
2.2	The Worst Test Modes and Channel Details	20
3	TRANSMITTER TEST RESULTS	22
3.1	Emission Bandwidth	22
3.2	Conducted Output Power	23
3.3	Power Spectral Density	25
3.4	Unwanted Emissions.....	27
3.5	Frequency Stability.....	30
3.6	AC Power Line Conducted Emissions	31
4	TEST LABORATORY INFORMATION	32

Appendix A. Emission Bandwidth

Appendix B. Conducted Output Power

Appendix C. Power Spectral Density

Appendix D. Unwanted Emissions

Appendix E. Frequency Stability

Appendix F. AC Power Line Conducted Emissions

Release Record

Report No.	Version	Description	Issued Date
FR341804AN	Rev. 01	Initial issue	Jun. 02, 2023

Summary of Test Results

FCC Rules	Test Items	Measured	Result
15.207	AC Power Line Conducted Emissions	[dBuV]: 0.426MHz 44.22 (Margin -3.11dB) - AV	Pass
15.407(b) 15.209	Unwanted Emissions	[dBuV/m at 3m]: 5150.00MHz 53.60 (Margin -0.40dB) - AV	Pass
15.407(a)	Emission Bandwidth	Meet the requirement of limit	Pass
15.407(e)	6dB bandwidth	Meet the requirement of limit	Pass
15.407(a)	Conducted Output Power	Max Power [dBm]: Non-beamforming mode 5150~5250MHz: 27.50 5250~5350MHz: 21.63 5470~5725MHz: 23.69 5725~5850MHz: 29.53 Beamforming mode 5150~5250MHz: 26.37 5250~5350MHz: 19.91 5470~5725MHz: 20.26 5725~5850MHz: 25.98	Pass
15.407(a)	Power Spectral Density	Meet the requirement of limit	Pass
15.407(g)	Frequency Stability	Meet the requirement of limit	Pass
15.203	Antenna Requirement	Meet the requirement of limit	Pass

Declaration of Conformity:

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

Comments and Explanations:

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

1 General Description

1.1 Information

1.1.1 Product Details

The following models are provided to this EUT.

Brand Name	Model Name	Product Name	Description
Adtran	SDG-8612	WiFi 6 2.5G Router	2.5G RJ45 WAN port
	SDG-8614	WiFi 6 SFP Router	2.5G SFP WAN port

1.1.2 Specification of the Equipment under Test (EUT)

RF General Information					
Frequency Range (MHz)	IEEE Std. 802.11	Ch. Freq. (MHz)	Channel Number	Transmit Chains (N _{Tx})	Data Rate / MCS
5150-5250 5250-5350 5470-5725 5725-5850	a	5180-5240 5260-5320 5500-5720 5745-5825	36-48 [4] 52-64 [4] 100-144 [12] 149-165 [5]	4	6-54 Mbps
5150-5250 5250-5350 5470-5725 5725-5850	n (HT20)	5180-5240 5260-5320 5500-5720 5745-5825	36-48 [4] 52-64 [4] 100-144 [12] 149-165 [5]	4	MCS 0-31
5150-5250 5250-5350 5470-5725 5725-5850	n (HT40)	5190-5230 5270-5310 5510-5710 5755-5795	38-46 [2] 54-62 [2] 102-142 [6] 151-159 [2]	4	MCS 0-31
5150-5250 5250-5350 5470-5725 5725-5850	ac (VHT20)	5180-5240 5260-5320 5500-5720 5745-5825	36-48 [4] 52-64 [4] 100-144 [12] 149-165 [5]	4	MCS 0-9
5150-5250 5250-5350 5470-5725 5725-5850	ac (VHT40)	5190-5230 5270-5310 5510-5710 5755-5795	38-46 [2] 54-62 [2] 102-142 [6] 151-159 [2]	4	MCS 0-9
5150-5250 5250-5350 5470-5725 5725-5850	ac (VHT80)	5210 5290 5530~5690 5775	42 [1] 58 [1] 106-138 [3] 155 [1]	4	MCS 0-9
5150-5250 5250-5350 5500-5700	ac (VHT160)	5250 5570	50 [1] 114 [1]	4	MCS 0-11
5150-5250 5250-5350 5470-5725 5725-5850	ax (HE20)	5180-5240 5260-5320 5500-5720 5745-5825	36-48 [4] 52-64 [4] 100-144 [12] 149-165 [5]	4	MCS 0-11
5150-5250 5250-5350 5470-5725 5725-5850	ax (HE40)	5190-5230 5270-5310 5510-5710 5755-5795	38-46 [2] 54-62 [2] 102-142 [6] 151-159 [2]	4	MCS 0-11
5150-5250 5250-5350 5470-5725 5725-5850	ax (HE80)	5210 5290 5530~5690 5775	42 [1] 58 [1] 106-138 [3] 155 [1]	4	MCS 0-11
5150-5250 5250-5350 5500-5700	ax (HE160)	5250 5570	50 [1] 114 [1]	4	MCS 0-11

Note 1: BPSK, QPSK, 16QAM, 64QAM, 256QAM and 1024QAM modulation.
Note 2: 802.11n/ac/ax supports beamforming function.
Note 3: TPC function is supported.

1.1.3 Antenna Details

Ant. No.	Model	Type	Connector	Operating Frequencies (MHz) / Antenna Gain (dBi)				
				2400~2483.5	5150~5250	5250~5350	5470~5725	5725~5850
1	Antenna_LB1	PIFA	UFL	3.698	--	--	--	--
2	Antenna_LB2	PIFA	UFL	4.22	--	--	--	--
3	Antenna_LB3	PIFA	UFL	3.516	--	--	--	--
4	Antenna_LB4	PIFA	UFL	4.661	--	--	--	--
5	Antenna_5G1	PIFA	UFL	--	3.664	3.749	2.763	2.649
6	Antenna_5G2	PIFA	UFL	--	2.81	3.951	3.35	3.759
7	Antenna_5G3	PIFA	UFL	--	3.587	3.956	4.111	3.986
8	Antenna_5G4	PIFA	UFL	--	4.053	4.053	4.12	4.789

1.1.4 Power Supply Type of Equipment under Test (EUT)

Power Supply Type	15Vdc from AC adapter
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1.1.5 Accessories

Accessories		
No.	Equipment	Description
1	AC adapter	Brand: LUCENT TRANS Model: 1A78 I/P: 100-240Vac, 50/60Hz, 1.2A O/P: 15V=3.0A, 45.0W Power Line: USB 1.8m non-shielded without core
2	RJ45 cable	2m non-shielded without core

1.1.6 Channel List

802.11a / n HT20 / ac VHT20 / ax HE20		802.11n HT40 / ac VHT40 / ax HE40	
Channel	Frequency(MHz)	Channel	Frequency(MHz)
36	5180	38	5190
40	5200	46	5230
44	5220	54	5270
48	5240	62	5310
52	5260	102	5510
56	5280	110	5550
60	5300	118	5590
64	5320	126	5630
100	5500	134	5670
104	5520	142	5710
108	5540	151	5755
112	5560	159	5795
116	5580	802.11ac VHT80 / ax HE80	
120	5600	42	5210
124	5620	58	5290
128	5640	106	5530
132	5660	122	5610
136	5680	138	5690
140	5700	155	5775
144	5720	ac VHT160 / ax HE160	
149	5745	50	5250
153	5765	114	5570
157	5785	---	---
161	5805	---	---
165	5825	---	---

1.1.7 Test Tool and Duty Cycle

Test Tool	Non-beamforming: QATool_Dbg, Version: 0.0.2.88 Beamforming: Putty, Version: 0.60.0.0				
Duty Cycle and Duty Factor	Mode	Non-beamforming		Beamforming	
		Duty cycle (%)	Duty factor (dB)	Duty cycle (%)	Duty factor (dB)
	11a	98.98%	0.04	---	---
	ax HE20	98.01%	0.09	95.23%	0.21
	ax HE40	95.97%	0.18	91.44%	0.39
	ax HE80	91.04%	0.41	76.69%	1.15
	ax HE160	85.31%	0.69	63.41%	1.98

1.1.8 Power Index of Test Tool

Modulation Mode	Test Frequency (MHz)	Power Index	
		Non-Beamforming	Beamforming
11a	5180	16.5	---
11a	5200	16.5	---
11a	5240	17	---
11a	5260	11.5	---
11a	5300	11	---
11a	5320	11	---
11a	5500	11.5	---
11a	5580	11	---
11a	5700	11.5	---
11a	5720	12	---
11a	5745	21.5	---
11a	5785	21.5	---
11a	5825	21.5	---
ax HE20	5180	19	38
ax HE20	5200	19	38
ax HE20	5240	19.5	39
ax HE20	5260	13.5	26
ax HE20	5300	13.5	26
ax HE20	5320	13.5	27
ax HE20	5500	13.5	27
ax HE20	5580	13	26
ax HE20	5700	13.5	27

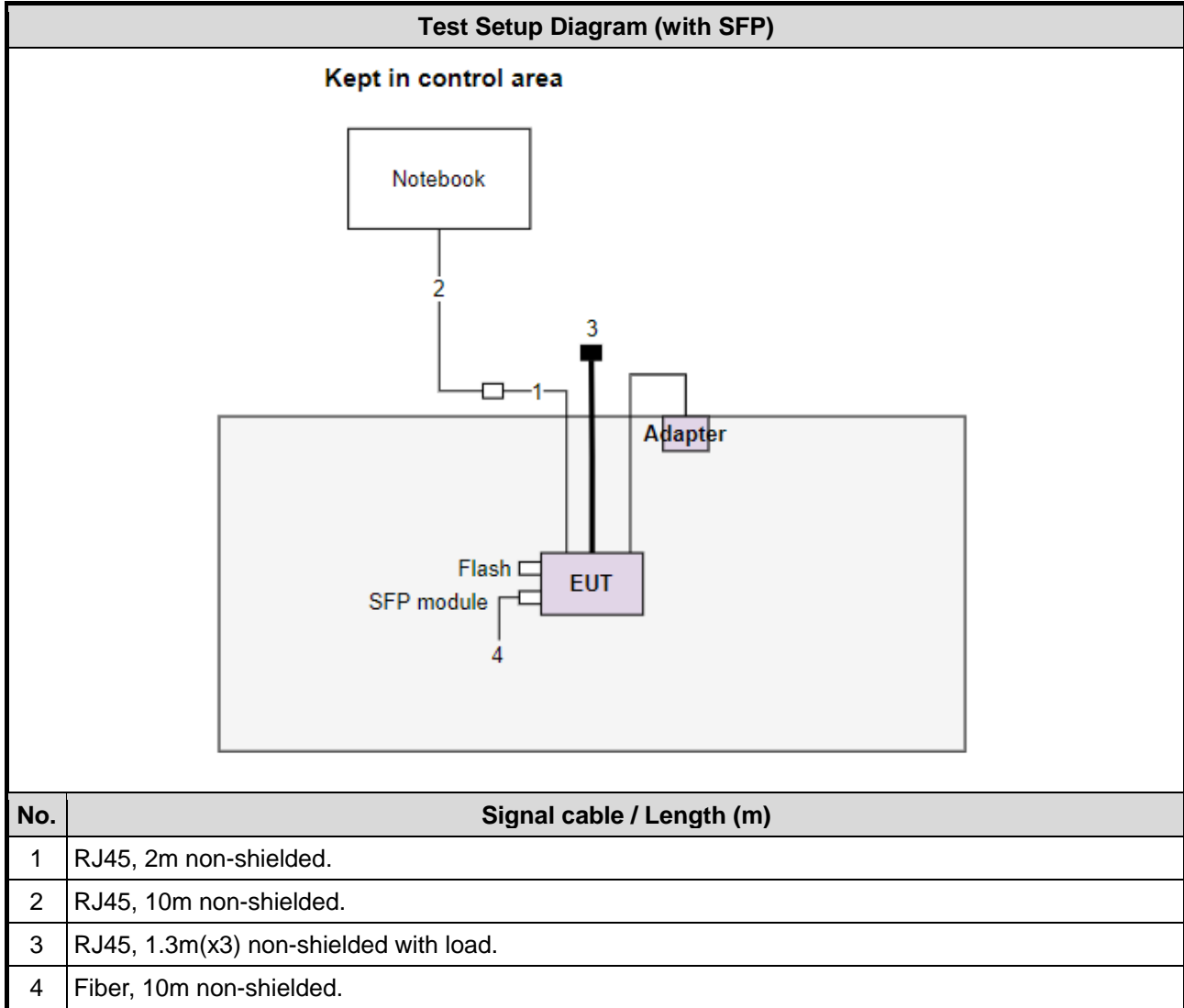
ax HE20	5720	14	26
ax HE20	5745	22.5	38
ax HE20	5785	22.5	38
ax HE20	5825	22.5	39
ax HE40	5190	18.5	36
ax HE40	5230	20.5	38
ax HE40	5270	14.5	25
ax HE40	5310	14.5	26
ax HE40	5510	15.5	26
ax HE40	5590	14.5	25
ax HE40	5670	15	26
ax HE40	5710	16	26
ax HE40	5755	22.5	38
ax HE40	5795	22.5	38
ax HE80	5210	13.5	26
ax HE80	5290	14	25
ax HE80	5530	14.5	26
ax HE80	5610	16	24
ax HE80	5690	16.5	23
ax HE80	5775	19	37
ax HE160	5250	15	26
ax HE160	5570	16	29

1.2 Local Support Equipment List

Support Equipment List					
No.	Equipment	Brand	Model	FCC ID	Remarks
With SFP					
1	Laptop	DELL	Latitude 5400	DoC	---
2	USB 3.0 Flash	Transcend	JetFlash 700	---	---
3	SFP module	---	LTE3680M-BH2 0-RA	---	Provided by applicant.
4	RJ 45 Load	ICC	---	---	---
5	Laptop	DELL	Latitude E5470	DoC	For Beamforming mode only.
6	BF Client	Gemtek	WRM-381AX	---	For Beamforming mode only.
Without SFP					
1	Laptop	DELL	Latitude 5400	DoC	---
2	Laptop	DELL	Latitude E5470	DoC	---
3	USB 3.0 Flash	Transcend	JetFlash 700	---	Provided by applicant.
4	RJ 45 Load	ICC	---	---	---
5	Laptop	DELL	Latitude E5470	DoC	For Beamforming mode only.
6	BF Client	Gemtek	WRM-381AX	---	For Beamforming mode only.

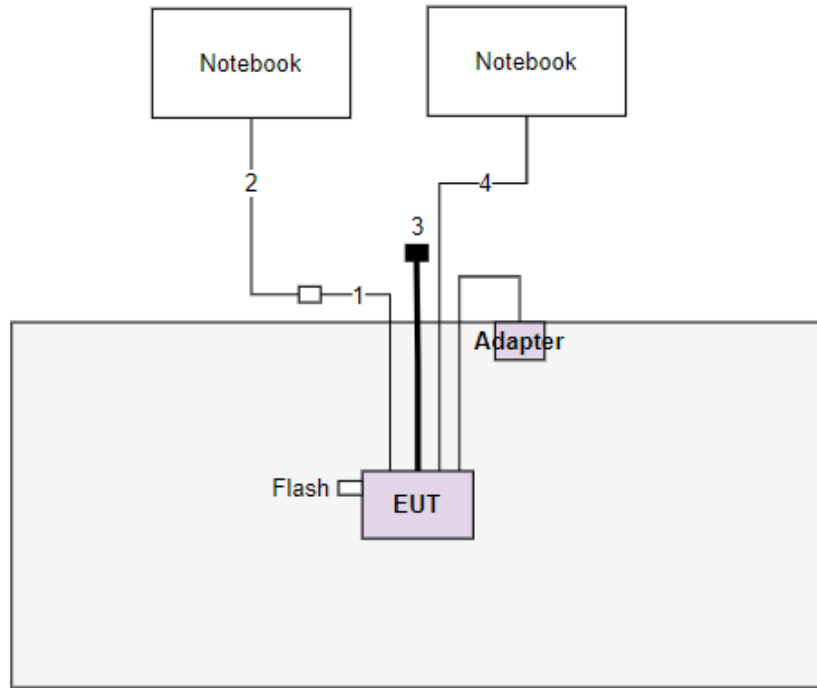
1.3 Test Setup Chart

Non-beamforming mode



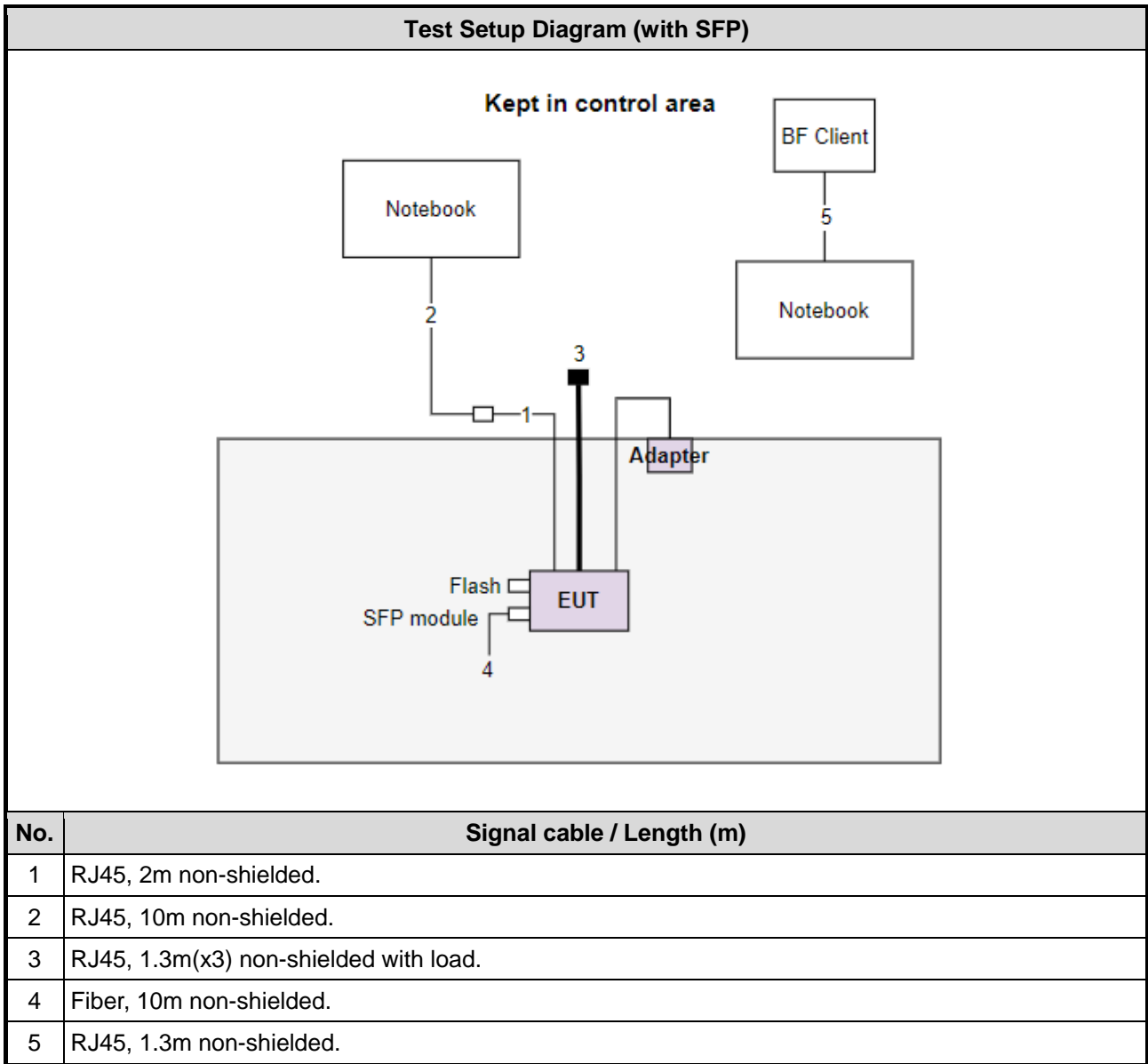
Test Setup Diagram (without SFP)

Kept in control area

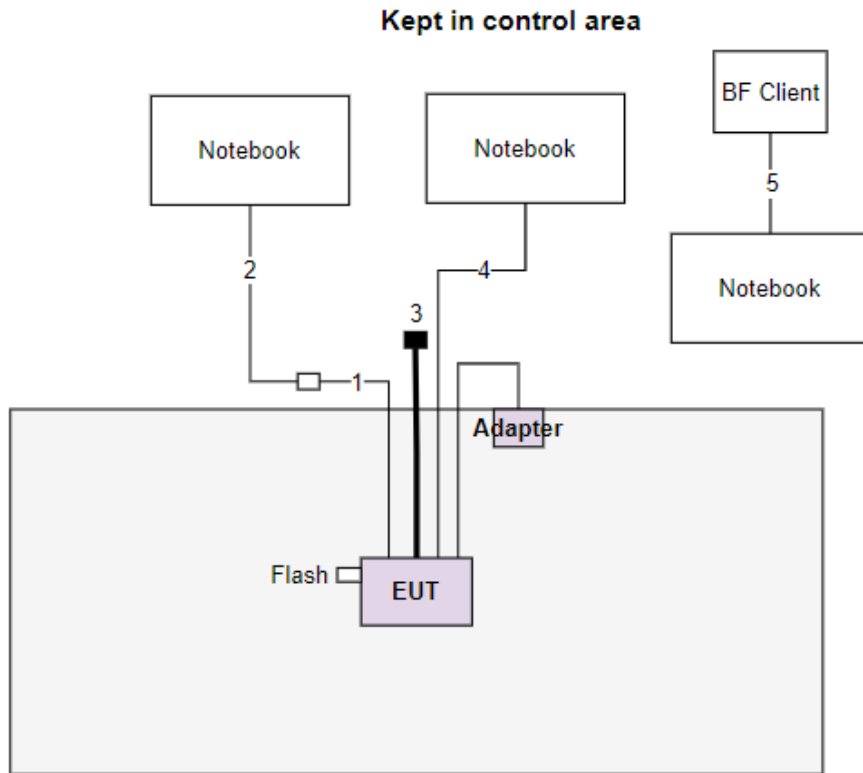


No.	Signal cable / Length (m)
1	RJ45, 2m non-shielded.
2	RJ45, 10m non-shielded.
3	RJ45, 1.3m(x3) non-shielded with load.
4	RJ45, 10m non-shielded.

Beamforming mode



Test Setup Diagram (without SFP)



No.	Signal cable / Length (m)
1	RJ45, 2m non-shielded.
2	RJ45, 10m non-shielded.
3	RJ45, 1.3m(x3) non-shielded with load.
4	RJ45, 10m non-shielded.
5	RJ45, 1.3m non-shielded.

1.4 The Equipment List

Test Item	Conducted Emission				
Test Site	Conduction room 1 / (CO01-WS)				
Tested Date	May 04, 2023				
Instrument	Brand	Model No.	Serial No.	Calibration Date	Calibration Until
Receiver	R&S	ESR3	101658	Feb. 17, 2023	Feb. 16, 2024
LISN	R&S	ENV216	101295	Jan. 31, 2023	Jan. 30, 2024
LISN (Support Unit)	SCHWARZBECK	Schwarzbeck 8127	8127667	Jan .03, 2023	Jan .02, 2024
RF Cable-CON	Woken	CFD200-NL	CFD200-NL-001	Oct. 17, 2022	Oct. 16, 2023
50 ohm terminal (Support Unit)	NA	50	01	May 10, 2022	May 09, 2023
Measurement Software	AUDIX	e3	6.120210k	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

Test Item	Radiated Emission				
Test Site	966 chamber1 / (03CH01-WS)				
Tested Date	Apr. 19 ~ Apr. 28, 2023				
Instrument	Brand	Model No.	Serial No.	Calibration Date	Calibration Until
Receiver	R&S	ESR3	101657	Mar. 03, 2023	Mar. 02, 2024
Spectrum Analyzer	R&S	FSV40	101498	Nov. 21, 2022	Nov. 20, 2023
Loop Antenna	R&S	HFH2-Z2	100330	Nov. 01, 2022	Oct. 31, 2023
Bilog Antenna	SCHWARZBECK	VULB9168	VULB9168-522	Aug. 03, 2022	Aug. 02, 2023
Horn Antenna 1G-18G	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1096	Nov. 25, 2022	Nov. 24, 2023
Horn Antenna 18G-40G	SCHWARZBECK	BBHA 9170	BBHA 9170517	Oct. 27, 2022	Oct. 26, 2023
Preamplifier	EMC	EMC02325	980225	Jun. 28, 2022	Jun. 27, 2023
Preamplifier	EMC	EMC118A45SE	980898	Jul. 16, 2022	Jul. 15, 2023
Preamplifier	EMC	EMC184045SE	980903	Jul. 16, 2022	Jul. 15, 2023
Loop Antenna Cable	KOAX KABEL	101354-BW	101354-BW	Oct. 04, 2022	Oct. 03, 2023
LF cable 3M	Woken	CFD400NL-LW	CFD400NL-001	Oct. 04, 2022	Oct. 03, 2023
LF cable 11M	EMC	EMCCFD400-NW-N W-11000	200801	Oct. 04, 2022	Oct. 03, 2023
LF cable 1M	EMC	EMCCFD400-NM-N M-1000	160502	Oct. 04, 2022	Oct. 03, 2023
RF Cable	EMC	EMC104-35M-35M-8000	210920	Oct. 04, 2022	Oct. 03, 2023
RF Cable	EMC	EMC104-35M-35M-3000	210922	Oct. 04, 2022	Oct. 03, 2023
Measurement Software	AUDIX	e3	6.120210g	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

Test Item	RF Conducted				
Test Site	(TH01-WS)				
Tested Date	May 02 ~ May 05, 2023				
Instrument	Brand	Model No.	Serial No.	Calibration Date	Calibration Until
Spectrum Analyzer	R&S	FSV40	101910	Apr. 14, 2023	Apr. 13, 2024
Power Meter	Anritsu	ML2495A	1241002	Nov. 23, 2022	Nov. 22, 2023
Power Sensor	Anritsu	MA2411B	1207366	Nov. 23, 2022	Nov. 22, 2023
AC POWER SOURCE	APC	AFC-500W	F312060012	Dec. 09, 2022	Dec. 08, 2023
TEMP&HUMIDITY CHAMBER	GIANT FORCE	GCT-225-40-SP-SD	MAF1212-002	Jun. 22, 2022	Jun. 21, 2023
Measurement Software	Sporton	SENSE-15247_DTS	V5.11	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

1.5 Test Standards

47 CFR FCC Part 15.407
ANSI C63.10-2013

1.6 Reference Guidance

FCC KDB 412172 D01 Determining ERP and EIRP v01r01
FCC KDB 662911 D01 Multiple Transmitter Output v02r01
FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01

1.7 Deviation from Test Standard and Measurement Procedure

None

1.8 Measurement Uncertainty

The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2)).

Measurement Uncertainty	
Parameters	Uncertainty
Bandwidth	±34.130 Hz
Conducted power	±0.808 dB
Frequency error	±1×10 ⁻⁹
Power density	±0.583 dB
Conducted emission	±2.715 dB
AC conducted emission	±2.92 dB
Unwanted Emission ≤ 1GHz	±3.41 dB
Unwanted Emission > 1GHz	±4.59 dB
Time	±0.1%
Temperature	±0.4 °C

2 Test Configuration

2.1 Testing Facility

Test Laboratory	International Certification Corporation
Test Site	CO01-WS, 03CH01-WS, TH01-WS
Address of Test Site	No.3-1, Lane 6, Wen San 3rd St., Kwei Shan Dist., Tao Yuan City 33381, Taiwan (R.O.C.)

- FCC Designation No.: TW2732
- FCC site registration No.: 181692
- ISED#: 10807A
- CAB identifier: TW2732

2.2 The Worst Test Modes and Channel Details

Non-beamforming mode

Frequency band 5150~5350 MHz / 5470~5725 MHz				
Test item	Modulation Mode	Test Frequency (MHz)	Data Rate	Test Configuration
AC Power Line Conducted Emissions	ax HE40	5230	MCS 0	1, 2
Unwanted Emissions ≤1GHz	ax HE40	5230	MCS 0	1, 2
Unwanted Emissions >1GHz Conducted Output Power Emission Bandwidth Power Spectral Density	11a	5180 / 5200 / 5240 / 5260 / 5300 5320 / 5500 / 5580 / 5700 / 5720	6 Mbps	2
	ax HE20	5180 / 5200 / 5240 / 5260 / 5300 5320 / 5500 / 5580 / 5700 / 5720	MCS 0	
	ax HE40	5190 / 5230 / 5270 / 5310 / 5510 5590 / 5670 / 5710	MCS 0	
	ax HE80	5210 / 5290 / 5530 / 5610 / 5690	MCS 0	
	ax HE160	5250 / 5570	MCS 0	
Frequency Stability	Un-modulation	5300	---	2
Frequency band 5725-5850 MHz				
Test item	Modulation Mode	Test Frequency (MHz)	Data Rate	Test Configuration
AC Power Line Conducted Emissions	11a	5745	6 Mbps	1, 2
Unwanted Emissions ≤1GHz	11a	5745	6 Mbps	1, 2
Unwanted Emissions >1GHz Conducted Output Power Emission Bandwidth 6dB bandwidth Power Spectral Density	11a	5745 / 5785 / 5825	6 Mbps	2
	ax HE20	5745 / 5785 / 5825	MCS 0	
	ax HE40	5755 / 5795	MCS 0	
	ax HE80	5775	MCS 0	
Frequency Stability	Un-modulation	5785	---	2
NOTE:				
1. Test configurations are listed as follows:				
1) Test configuration 1: Without SFP, model: SDG-8612				
2) Test configuration 2: With SFP, model: SDG-8614				

Beamforming mode

Frequency band 5150~5350 MHz / 5470~5725 MHz				
Test item	Modulation Mode	Test Frequency (MHz)	Data Rate	Test Configuration
AC Power Line Conducted Emissions	ax HE20	5180	MCS 0	1, 2
Unwanted Emissions ≤1GHz	ax HE20	5180	MCS 0	1, 2
Unwanted Emissions >1GHz Conducted Output Power Emission Bandwidth Power Spectral Density	ax HE20	5180 / 5200 / 5240 / 5260 / 5300 5320 / 5500 / 5580 / 5700	MCS 0	2
	ax HE40	5190 / 5230 / 5270 / 5310 / 5510 5590 / 5670	MCS 0	
	ax HE80	5210 / 5290 / 5530 / 5610	MCS 0	
	ax HE160	5250 / 5570	MCS 0	
Frequency band 5725-5850 MHz				
Test item	Modulation Mode	Test Frequency (MHz)	Data Rate	Test Configuration
AC Power Line Conducted Emissions	ax HE80	5775	MCS 0	1, 2
Unwanted Emissions ≤1GHz	ax HE80	5775	MCS 0	1, 2
Unwanted Emissions >1GHz Conducted Output Power Emission Bandwidth 6dB bandwidth Power Spectral Density	ax HE20	5745 / 5785 / 5825	MCS 0	2
	ax HE40	5755 / 5795	MCS 0	
	ax HE80	5775	MCS 0	
NOTE:				
1. Test configurations are listed as follows:				
1) Test configuration 1: Without SFP, model: SDG-8612				
2) Test configuration 2: With SFP, model: SDG-8614				

3 Transmitter Test Results

3.1 Emission Bandwidth

3.1.1 Limit of Emission Bandwidth

Within the 5.725-5.85 GHz band, the minimum 6 dB bandwidth of U-NII devices shall be at least 500 kHz.

3.1.2 Test Procedures

26dB Bandwidth

1. Set RBW = approximately 1% of the emission bandwidth.
2. Set the VBW > RBW, Detector = Peak.
3. Trace mode = max hold.
4. Measure the maximum width of the emission that is 26 dB down from the peak of the emission.

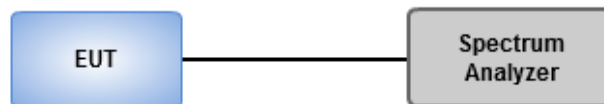
Occupied Bandwidth

1. Set RBW = 1 % to 5 % of the OBW.
2. Set VBW \geq 3 RBW.
3. Sample detection and single sweep mode shall be used.
4. Use the 99 % power bandwidth function of the instrument.

6dB Bandwidth

1. Set RBW = 100kHz, VBW = 300kHz.
2. Detector = Peak, Trace mode = max hold.
3. Allow the trace to stabilize.
4. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

3.1.3 Test Setup



3.1.4 Test Results

Ambient Condition	23-24°C / 62-63%	Tested By	Brad Wu
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Refer to Appendix A.

3.2 Conducted Output Power

3.2.1 Limit of Conducted Output Power

Frequency band 5150-5250 MHz	
Operating Mode	Limit
<input type="checkbox"/> Outdoor access point	Conducted Power: 1 W The maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm)
<input checked="" type="checkbox"/> Indoor access point	Conducted Power: 1 W
<input type="checkbox"/> Fixed point-to-point access points	Conducted Power: 1 W
<input type="checkbox"/> Client devices	Conducted Power: 250 mW

Frequency Band (MHz)	Limit
<input checked="" type="checkbox"/> 5250 ~ 5350	Conducted Power: 250mW or 11dBm+10 log B
<input checked="" type="checkbox"/> 5470 ~ 5725	Conducted Power: 250mW or 11dBm+10 log B
<input checked="" type="checkbox"/> 5725 ~ 5850	Conducted Power: 1 W

Note: "B" is the 26dB emission bandwidth in MHz.

3.2.2 Test Procedures

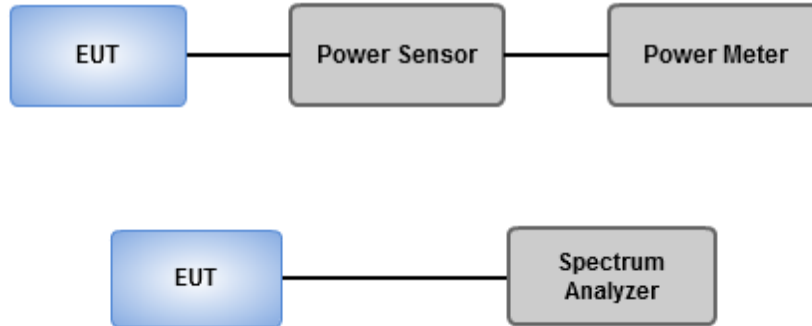
Method PM-G (Measurement using a gated RF average power meter)

Measurements is performed using a wideband gated RF power meter provided that the gate parameters are adjusted such that the power is measured only when the EUT is transmitting at its maximum power control level. Since the measurement is made only during the ON time of the transmitter, no duty cycle correction factor is required.

Spectrum analyzer (For channel that extends across the 5.725 GHz boundary)

1. Set RBW = 1MHz, VBW = 3MHz, Sweep time = Auto, Detector = RMS.
2. Trace average at least 100 traces in power averaging mode.
3. Compute power by integrating the spectrum across the 26 dB EBW.
4. Add $10 \log(1/X)$, X:duty cycle) if duty cycle is <98%).

3.2.3 Test Setup



3.2.4 Test Results

Ambient Condition	23-24°C / 62-63%	Tested By	Brad Wu
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Refer to Appendix B.

3.3 Power Spectral Density

3.3.1 Limit of Power Spectral Density

Frequency band 5150-5250 MHz		
Operating Mode		Limit
<input type="checkbox"/>	Outdoor access point	17 dBm / MHz
<input checked="" type="checkbox"/>	Indoor access point	17 dBm / MHz
<input type="checkbox"/>	Fixed point-to-point access points	17 dBm / MHz
<input type="checkbox"/>	Client devices	11 dBm / MHz

Frequency Band (MHz)		Limit
<input checked="" type="checkbox"/>	5250 ~ 5350	11 dBm / MHz
<input checked="" type="checkbox"/>	5470 ~ 5725	11 dBm / MHz
<input checked="" type="checkbox"/>	5725 ~ 5850	30 dBm /500 kHz

3.3.2 Test Procedures

For 5150 ~ 5250 MHz / 5250 ~ 5350 MHz / 5470 ~ 5725 MHz

Duty cycle \geq 98 %

1. Set RBW = 1 MHz, VBW = 3 MHz, Sweep time = auto, Detector = RMS.
2. Trace average 100 traces.
3. Use the peak marker function to determine the maximum amplitude level.

Duty cycle < 98 %

1. Set RBW = 1 MHz, VBW = 3 MHz, Detector = RMS.
2. Set sweep time $\geq 10 * (\text{number of points in sweep}) * (\text{total on/off period of the transmitted signal})$.
3. Perform a single sweep.
4. Use the peak marker function to determine the maximum amplitude level.
5. Add $10 \log(1/x)$, where x is the duty cycle.

For 5725 ~ 5850 MHz

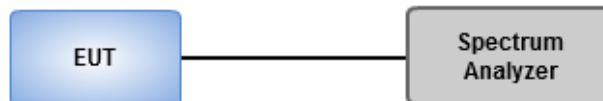
Duty cycle \geq 98 %

1. Set RBW = 500 kHz, VBW = 3 MHz, Sweep time = auto, Detector = RMS.
2. Trace average 100 traces.
3. Use the peak marker function to determine the maximum amplitude level.

Duty cycle < 98 %

1. Set RBW = 500 kHz, VBW = 3 MHz, Detector = RMS.
2. Set sweep time $\geq 10 * (\text{number of points in sweep}) * (\text{total on/off period of the transmitted signal})$.
3. Perform a single sweep.
4. Use the peak marker function to determine the maximum amplitude level.
5. Add $10 \log(1/x)$, where x is the duty cycle.

3.3.3 Test Setup



3.3.4 Test Results

Ambient Condition	23-24°C / 62-63%	Tested By	Brad Wu
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Refer to Appendix C.

3.4 Unwanted Emissions

3.4.1 Limit of Unwanted Emissions

Restricted Band Emissions 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:
Qusai-Peak value is measured for frequency below 1GHz except for 9–90 kHz, 110–490 kHz frequency band. Peak and average value are measured for frequency above 1GHz. The limit on average radio frequency emission is as above table. The limit on peak radio frequency emissions is 20 dB above the maximum permitted average emission limit

Note 2:
Measurements may be performed at a distance other than what is specified provided. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor as below, Frequency at or above 30 MHz: 20 dB/decade Frequency below 30 MHz: 40 dB/decade.

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 - 5.850 GHz	All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

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

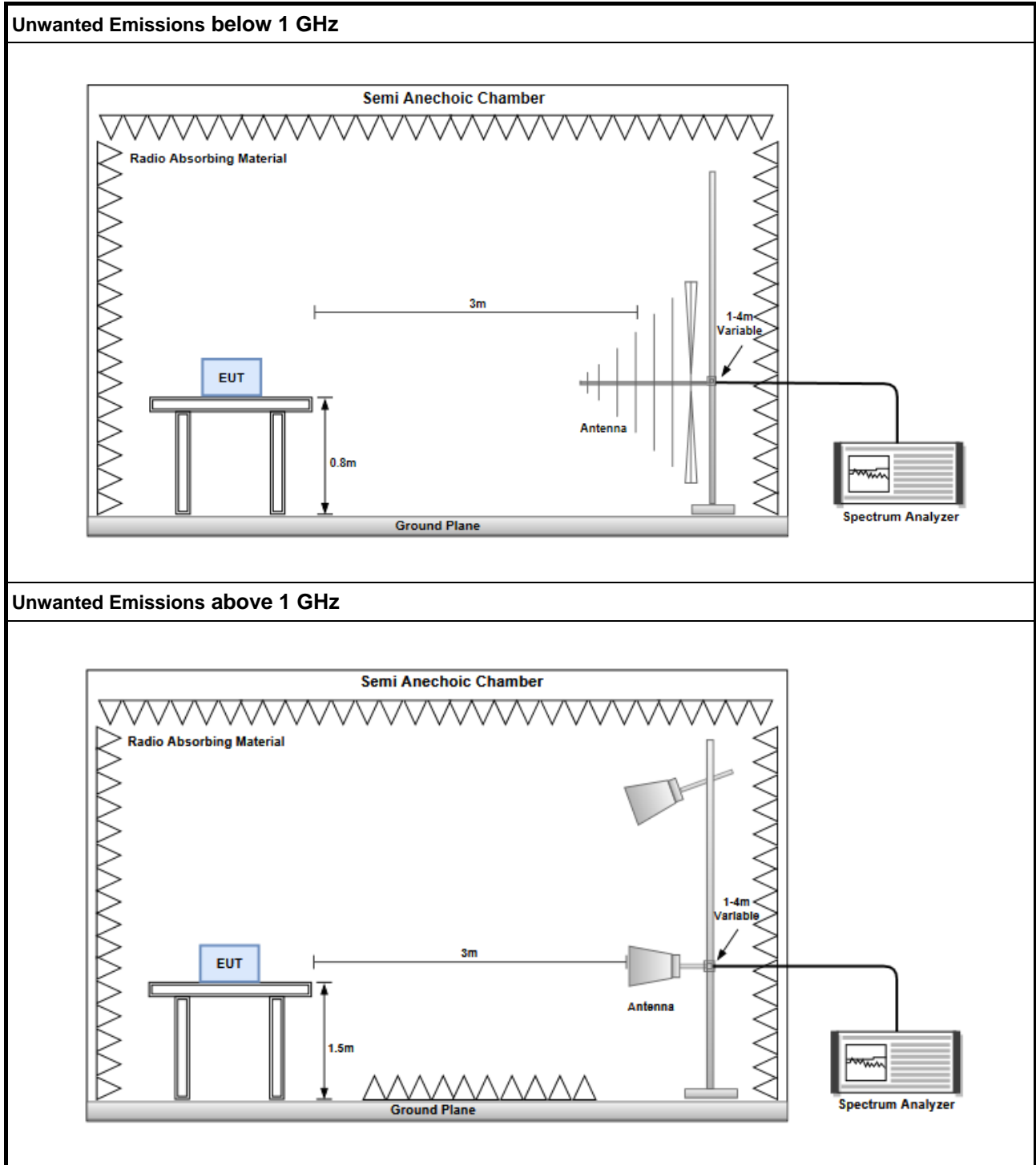
3.4.2 Test Procedures

1. Measurement is made at a semi-anechoic chamber that incorporates a turntable allowing a EUT rotation of 360°. A continuously-rotating, remotely-controlled turntable is installed at the test site to support the EUT and facilitate determination of the direction of maximum radiation for each EUT emission frequency. The EUT is placed at test table. For emissions testing at or below 1 GHz, the table height is 80 cm above the reference ground plane. For emission measurements above 1 GHz, the table height is 1.5 m
2. Measurement is made with the antenna positioned in both the horizontal and vertical planes of polarization. The measurement antenna is varied in height (1m ~ 4m) above the reference ground plane to obtain the maximum signal strength. Distance between EUT and antenna is 3 m.
3. This investigation is performed with the EUT rotated 360°, the antenna height scanned between 1 m and 4 m, and the antenna rotated to repeat the measurements for both the horizontal and vertical antenna polarizations.

Note:

1. 120kHz measurement bandwidth of test receiver and Quasi-peak detector is for radiated emission below 1GHz.
2. RBW=1MHz, VBW=3MHz and Peak detector is for peak measured value of radiated emission above 1GHz.
3. RBW=1MHz, VBW=1/T and Peak detector is for average measured value of radiated emission above 1GHz.

3.4.3 Test Setup



3.4.4 Test Results

Refer to Appendix D.

3.5 Frequency Stability

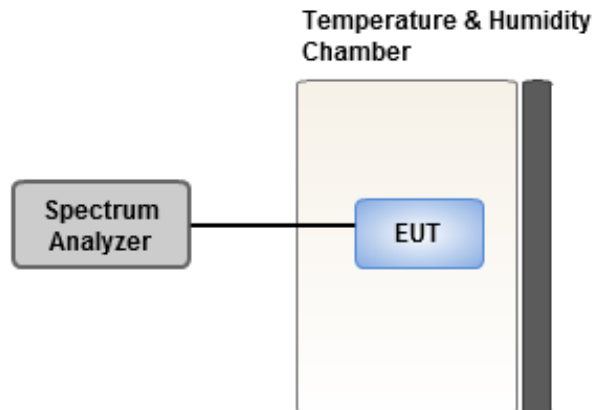
3.5.1 Limit of Frequency Stability

Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.

3.5.2 Test Procedures

1. The EUT is installed in an environment test chamber with external power source.
2. Set the chamber to operate at 20 centigrade and external power source to output at nominal voltage of EUT.
3. A sufficient stabilization period at each temperature is used prior to each frequency measurement.
4. When temperature is stabled, measure the frequency stability.
5. The test shall be performed under normal and extreme condition for temperature and voltage.

3.5.3 Test Setup



3.5.4 Test Results

Ambient Condition	23-24°C / 62-63%	Tested By	Brad Wu
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Refer to Appendix E.

3.6 AC Power Line Conducted Emissions

3.6.1 Limit of AC Power Line Conducted Emissions

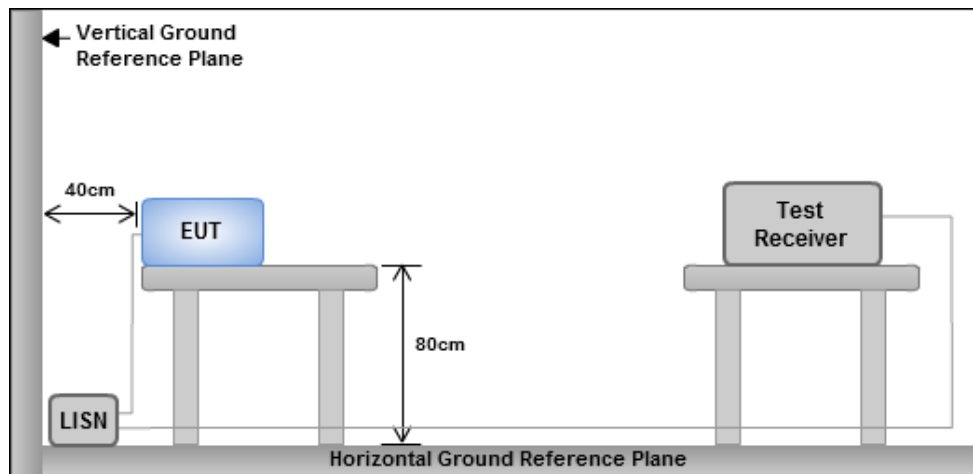
Conducted Emissions Limit		
Frequency Emission (MHz)	Quasi-Peak	Average
0.15-0.5	66 - 56 *	56 - 46 *
0.5-5	56	46
5-30	60	50

Note 1: * Decreases with the logarithm of the frequency.

3.6.2 Test Procedures

1. The device is placed on a test table, raised 80 cm above the reference ground plane. The vertical conducting plane is located 40 cm to the rear of the device.
2. The device is connected to line impedance stabilization network (LISN) and other accessories are connected to other LISN. Measured levels of AC power line conducted emission are across the 50 Ω LISN port.
3. AC conducted emission measurements is made over frequency range from 150 kHz to 30 MHz.
4. This measurement was performed with AC 120V/60Hz

3.6.3 Test Setup



- Note: 1. Support units were connected to second LISN.
 2. Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other units and other metal planes

3.6.4 Test Results

Refer to Appendix F.

4 Test laboratory information

Established in 2012, ICC provides foremost EMC & RF Testing and advisory consultation services by our skilled engineers and technicians. Our services employ a wide variety of advanced edge test equipment and one of the widest certification extents in the business.

International Certification Corporation (EMC and Wireless Communication Laboratory), it is our definitive objective is to institute long term, trust-based associations with our clients. The expectation we set up with our clients is based on outstanding service, practical expertise and devotion to a certified value structure. Our passion is to grant our clients with best EMC / RF services by oriented knowledgeable and accommodating staff.

Our Test sites are located at Linkou District and Kwei Shan District. Location map can be found on our website <http://www.icertifi.com.tw>.

Linkou

Tel: 886-2-2601-1640

No.30-2, Ding Fwu Tsuen, Lin Kou
District, New Taipei City, Taiwan
(R.O.C.)

Kwei Shan

Tel: 886-3-271-8666

No.3-1, Lane 6, Wen San 3rd
St., Kwei Shan Dist., Tao Yuan
City 33381, Taiwan (R.O.C.)
No.2-1, Lane 6, Wen San 3rd
St., Kwei Shan Dist., Tao Yuan
City 33381, Taiwan (R.O.C.)

Kwei Shan Site II

Tel: 886-3-271-8640

No.14-1, Lane 19, Wen San 3rd
St., Kwei Shan Dist., Tao Yuan
City 33381, Taiwan (R.O.C.)

If you have any suggestion, please feel free to contact us as below information.

Tel: 886-3-271-8666

Fax: 886-3-318-0345

Email: ICC_Service@icertifi.com.tw

==END==



Non-beamforming mode

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	29.832M	16.861M	16M9D1D	22.44M	16.729M
802.11ax HEW20_Nss1,(MCS0)_4TX	33.396M	19.22M	19M2D1D	20.856M	18.981M
802.11ax HEW40_Nss1,(MCS0)_4TX	57.552M	37.901M	37M9D1D	42.9M	37.661M
802.11ax HEW80_Nss1,(MCS0)_4TX	89.496M	77.121M	77M1D1D	85.8M	77.001M
802.11ax HEW160_Nss1,(MCS0)_4TX	80.24M	77.561M	77M6D1D	80.08M	77.481M
5.25-5.35GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	29.568M	16.888M	16M9D1D	20.724M	16.624M
802.11ax HEW20_Nss1,(MCS0)_4TX	31.152M	19.22M	19M2D1D	21.978M	19.07M
802.11ax HEW40_Nss1,(MCS0)_4TX	45.54M	37.661M	37M7D1D	39.336M	37.541M
802.11ax HEW80_Nss1,(MCS0)_4TX	86.856M	77.121M	77M1D1D	81.312M	77.001M
802.11ax HEW160_Nss1,(MCS0)_4TX	80.32M	77.641M	77M6D1D	80.24M	77.401M
5.47-5.725GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	28.116M	16.835M	16M8D1D	15.435M	13.313M
802.11ax HEW20_Nss1,(MCS0)_4TX	29.832M	19.22M	19M2D1D	16.065M	14.513M
802.11ax HEW40_Nss1,(MCS0)_4TX	50.688M	37.781M	37M8D1D	34.615M	33.548M
802.11ax HEW80_Nss1,(MCS0)_4TX	88.704M	77.121M	77M1D1D	74.775M	72.789M
802.11ax HEW160_Nss1,(MCS0)_4TX	165.792M	155.682M	156MD1D	162.096M	155.442M
5.725-5.85GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	16.5M	26.572M	26M6D1D	3.16M	3.718M
802.11ax HEW20_Nss1,(MCS0)_4TX	19.008M	23.838M	23M8D1D	4.48M	4.598M
802.11ax HEW40_Nss1,(MCS0)_4TX	36.3M	43.778M	43M8D1D	3.94M	4.098M
802.11ax HEW80_Nss1,(MCS0)_4TX	73.92M	77.241M	77M2D1D	3.96M	4.118M

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

Max-OBW = Maximum 99% occupied bandwidth;

Min-N dB = Minimum 6dB down bandwidth for 5.725-5.85GHz band / Minimum 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	27.654M	16.835M	28.38M	16.835M	28.116M	16.782M	28.314M	16.835M
5200MHz	Pass	Inf	29.502M	16.861M	29.832M	16.861M	28.314M	16.808M	27.654M	16.861M
5240MHz	Pass	Inf	24.486M	16.861M	24.09M	16.808M	23.958M	16.782M	22.44M	16.729M
5260MHz	Pass	Inf	21.186M	16.65M	20.988M	16.624M	20.79M	16.624M	20.724M	16.624M
5300MHz	Pass	Inf	28.71M	16.888M	28.908M	16.888M	27.918M	16.861M	27.72M	16.861M
5320MHz	Pass	Inf	27.126M	16.835M	29.04M	16.808M	29.568M	16.835M	28.71M	16.782M
5500MHz	Pass	Inf	26.994M	16.835M	26.334M	16.756M	27.39M	16.756M	27.852M	16.782M
5580MHz	Pass	Inf	21.45M	16.65M	21.054M	16.703M	21.12M	16.597M	20.856M	16.597M
5700MHz	Pass	Inf	26.928M	16.808M	28.116M	16.808M	27.126M	16.808M	26.862M	16.782M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	15.765M	13.328M	15.735M	13.328M	15.435M	13.328M	15.75M	13.313M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	3.16M	3.758M	3.18M	3.738M	3.18M	3.718M	3.2M	3.738M
5745MHz	Pass	500k	16.368M	21.769M	16.5M	22.666M	16.368M	22.957M	16.368M	21.875M
5785MHz	Pass	500k	16.368M	24.329M	16.368M	24.461M	16.302M	25.701M	16.368M	24.012M
5825MHz	Pass	500k	16.368M	26.572M	16.368M	22.007M	16.368M	25.516M	16.368M	25.701M
802.11ax HEW20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	Inf	26.928M	19.19M	28.842M	19.19M	29.634M	19.19M	27.06M	19.16M
5200MHz	Pass	Inf	25.146M	19.22M	28.908M	19.22M	33.396M	19.19M	27.522M	19.19M
5240MHz	Pass	Inf	31.614M	19.04M	26.73M	19.04M	21.45M	18.981M	20.856M	18.981M
5260MHz	Pass	Inf	22.374M	19.07M	21.978M	19.07M	22.242M	19.07M	22.044M	19.07M
5300MHz	Pass	Inf	26.268M	19.16M	30.624M	19.19M	29.37M	19.19M	31.152M	19.19M
5320MHz	Pass	Inf	25.542M	19.22M	27.126M	19.16M	27.984M	19.19M	25.014M	19.16M
5500MHz	Pass	Inf	27.39M	19.19M	29.832M	19.22M	29.106M	19.19M	27.324M	19.16M
5580MHz	Pass	Inf	22.572M	19.1M	21.78M	19.07M	21.912M	19.1M	22.11M	19.07M
5700MHz	Pass	Inf	27.258M	19.13M	25.014M	19.13M	26.994M	19.19M	27.72M	19.13M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	16.065M	14.558M	16.185M	14.528M	16.17M	14.513M	16.365M	14.543M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	4.5M	4.598M	4.48M	4.618M	4.52M	4.618M	4.5M	4.618M
5745MHz	Pass	500k	18.81M	20.87M	18.81M	20.87M	18.876M	21.979M	19.008M	21.979M
5785MHz	Pass	500k	18.876M	20.66M	18.876M	21.469M	19.008M	22.339M	19.008M	22.399M
5825MHz	Pass	500k	18.876M	22.669M	18.942M	20.42M	18.942M	22.519M	18.81M	23.838M
802.11ax HEW40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	Inf	42.9M	37.721M	49.764M	37.721M	44.088M	37.661M	45.012M	37.721M
5230MHz	Pass	Inf	56.232M	37.781M	56.76M	37.901M	57.552M	37.781M	43.692M	37.721M
5270MHz	Pass	Inf	39.468M	37.601M	39.336M	37.601M	39.336M	37.541M	39.336M	37.601M
5310MHz	Pass	Inf	45.144M	37.661M	43.032M	37.661M	40.656M	37.661M	45.54M	37.661M
5510MHz	Pass	Inf	41.316M	37.721M	46.464M	37.781M	46.464M	37.661M	47.52M	37.661M



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)
5590MHz	Pass	Inf	39.336M	37.541M	39.336M	37.541M	39.468M	37.541M	39.336M	37.601M
5670MHz	Pass	Inf	43.164M	37.721M	50.028M	37.781M	50.688M	37.781M	49.104M	37.721M
5710MHz Straddle 5.47-5.725GHz	Pass	Inf	34.685M	33.548M	34.615M	33.548M	34.685M	33.548M	34.755M	33.618M
5710MHz Straddle 5.725-5.85GHz	Pass	500k	3.98M	4.098M	4M	4.098M	3.94M	4.118M	4.02M	4.098M
5755MHz	Pass	500k	36.3M	39.94M	35.112M	41.139M	35.112M	42.039M	32.868M	40.06M
5795MHz	Pass	500k	32.604M	40.96M	35.112M	40.48M	36.036M	43.778M	35.64M	41.379M
802.11ax HEW80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	Inf	89.496M	77.121M	87.384M	77.121M	85.8M	77.121M	85.8M	77.001M
5290MHz	Pass	Inf	83.688M	77.001M	84.744M	77.001M	81.312M	77.121M	86.856M	77.001M
5530MHz	Pass	Inf	88.704M	77.121M	83.688M	77.121M	83.688M	77.001M	83.16M	77.001M
5610MHz	Pass	Inf	80.256M	76.882M	80.256M	76.882M	80.256M	76.882M	80.256M	77.001M
5690MHz Straddle 5.47-5.725GHz	Pass	Inf	74.775M	72.789M	74.775M	73.013M	75M	72.864M	74.85M	73.013M
5690MHz Straddle 5.725-5.85GHz	Pass	500k	4M	4.338M	3.98M	4.118M	3.96M	4.138M	4M	4.218M
5775MHz	Pass	500k	70.488M	77.121M	73.92M	77.241M	73.656M	77.121M	67.584M	77.241M
802.11ax HEW160_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	Inf	80.08M	77.481M	80.24M	77.561M	80.24M	77.561M	80.16M	77.481M
5250MHz Straddle 5.25-5.35GHz	Pass	Inf	80.32M	77.641M	80.32M	77.561M	80.24M	77.481M	80.24M	77.401M
5570MHz	Pass	Inf	162.624M	155.442M	162.096M	155.442M	165.792M	155.682M	162.624M	155.682M

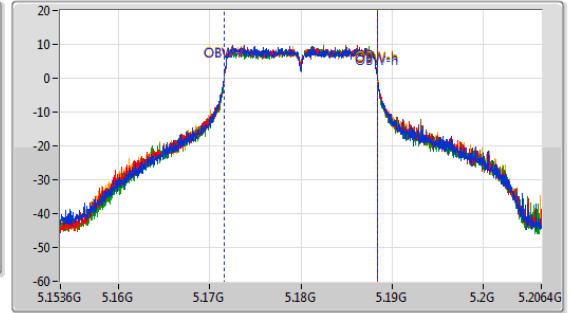
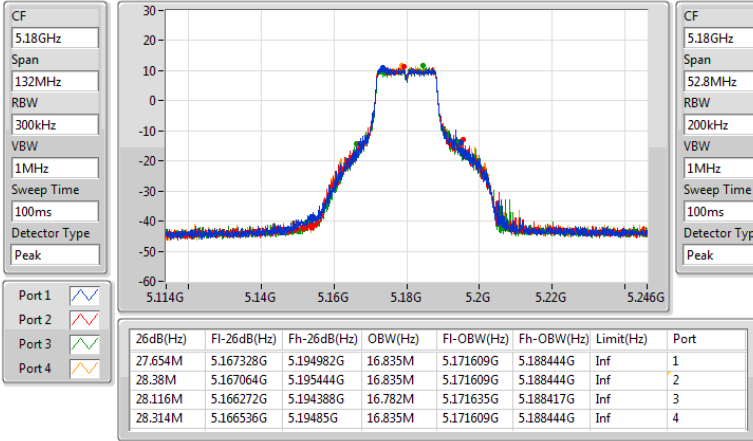
Port X-N dB = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band
 Port X-OBW = Port X 99% occupied bandwidth



5.15-5.25GHz_802.11a_Nss1,(6Mbps)_4TX

EBW

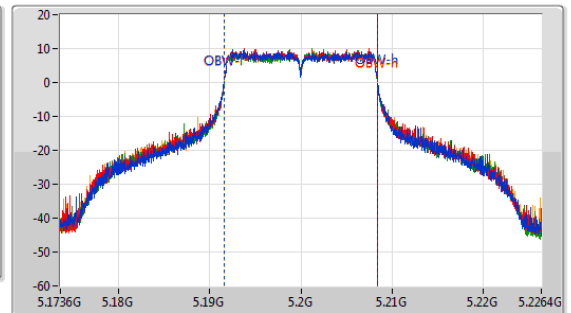
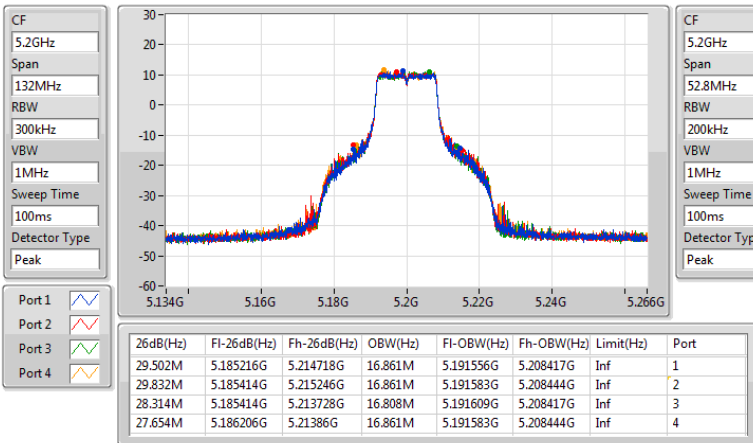
5180MHz



5.15-5.25GHz_802.11a_Nss1,(6Mbps)_4TX

EBW

5200MHz



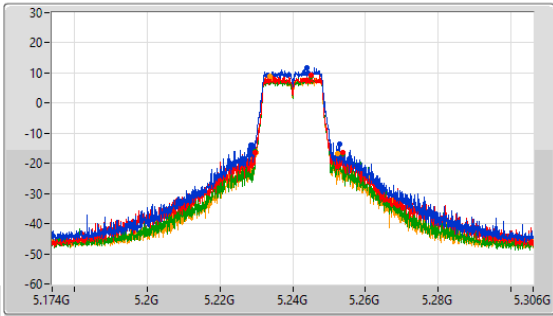


5.15-5.25GHz_802.11a_Nss1,(6Mbps)_4TX

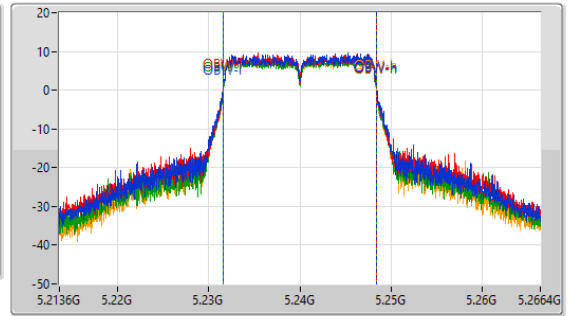
EBW

5240MHz

CF
5.24GHz
Span
132MHz
RBW
300kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



CF
5.24GHz
Span
52.8MHz
RBW
200kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



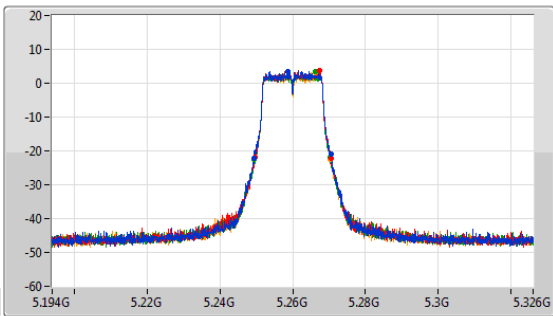
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
24.486M	5.228516G	5.253002G	16.861M	5.231583G	5.248444G	Inf	1
24.09M	5.229572G	5.253662G	16.808M	5.231609G	5.248417G	Inf	2
23.958M	5.229836G	5.253794G	16.782M	5.231609G	5.248391G	Inf	3
22.44M	5.229968G	5.252408G	16.729M	5.231635G	5.248365G	Inf	4

5.25-5.35GHz_802.11a_Nss1,(6Mbps)_4TX

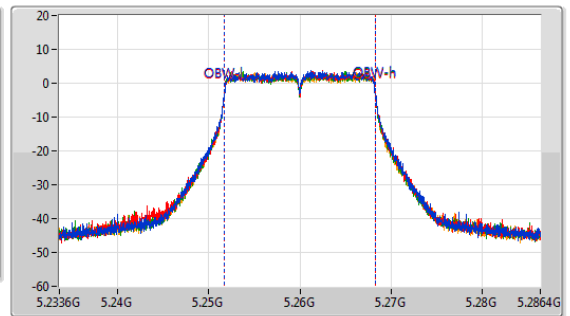
EBW

5260MHz

CF
5.26GHz
Span
132MHz
RBW
200kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



CF
5.26GHz
Span
52.8MHz
RBW
200kHz
VBW
1MHz
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
21.186M	5.24944G	5.270626G	16.65M	5.251688G	5.268338G	Inf	1
20.988M	5.249572G	5.27056G	16.624M	5.251688G	5.268312G	Inf	2
20.79M	5.249506G	5.270296G	16.624M	5.251688G	5.268312G	Inf	3
20.724M	5.249638G	5.270362G	16.624M	5.251688G	5.268312G	Inf	4

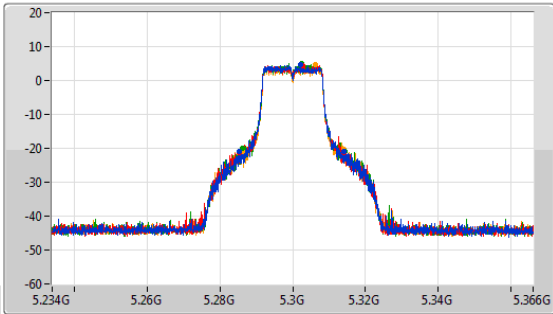


5.25-5.35GHz_802.11a_Nss1,(6Mbps)_4TX

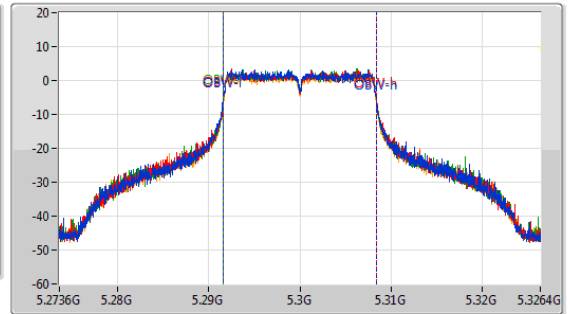
EBW

5300MHz

CF: 5.3GHz
 Span: 132MHz
 RBW: 300kHz
 VBW: 1MHz
 Sweep Time: 100ms
 Detector Type: Peak



CF: 5.3GHz
 Span: 52.8MHz
 RBW: 200kHz
 VBW: 1MHz
 Sweep Time: 100ms
 Detector Type: Peak



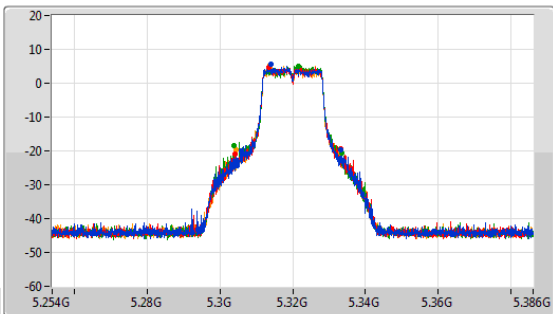
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
28.71M	5.28548G	5.31419G	16.888M	5.291556G	5.308444G	Inf	1
28.908M	5.285216G	5.314124G	16.888M	5.291583G	5.30847G	Inf	2
27.918M	5.286338G	5.314256G	16.861M	5.291583G	5.308444G	Inf	3
27.72M	5.286272G	5.313992G	16.861M	5.291583G	5.308444G	Inf	4

5.25-5.35GHz_802.11a_Nss1,(6Mbps)_4TX

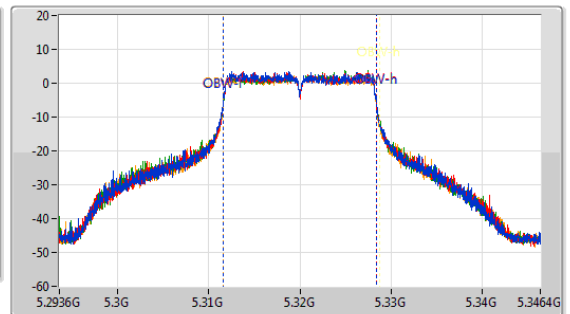
EBW

5320MHz

CF: 5.32GHz
 Span: 132MHz
 RBW: 300kHz
 VBW: 1MHz
 Sweep Time: 100ms
 Detector Type: Peak



CF: 5.32GHz
 Span: 52.8MHz
 RBW: 200kHz
 VBW: 1MHz
 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
27.126M	5.306074G	5.3332G	16.835M	5.311556G	5.328391G	Inf	1
29.04M	5.304226G	5.333266G	16.808M	5.311583G	5.328391G	Inf	2
29.568M	5.303962G	5.33353G	16.835M	5.311556G	5.328391G	Inf	3
28.71M	5.304424G	5.333134G	16.782M	5.311583G	5.328365G	Inf	4

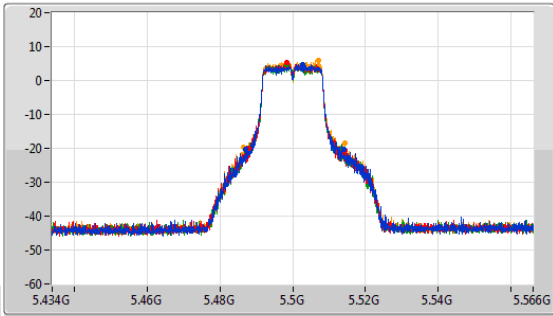


5.47-5.725GHz_802.11a_Nss1,(6Mbps)_4TX

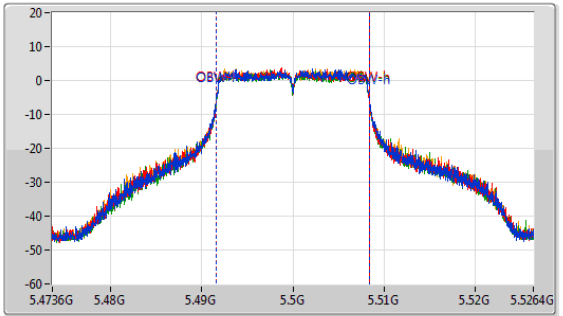
EBW

5500MHz

CF: 5.5GHz
 Span: 132MHz
 RBW: 300kHz
 VBW: 1MHz
 Sweep Time: 100ms
 Detector Type: Peak



CF: 5.5GHz
 Span: 52.8MHz
 RBW: 200kHz
 VBW: 1MHz
 Sweep Time: 100ms
 Detector Type: Peak



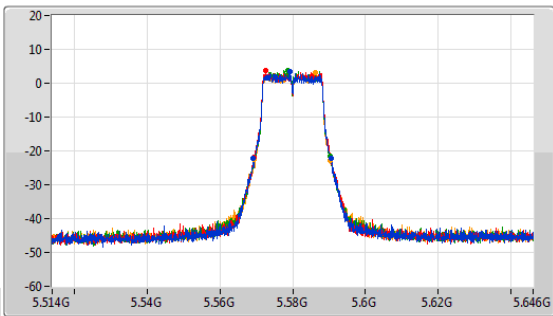
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
26.994M	5.48713G	5.514124G	16.835M	5.491609G	5.508444G	Inf	1
26.334M	5.488054G	5.514388G	16.756M	5.491635G	5.508391G	Inf	2
27.39M	5.486998G	5.514388G	16.756M	5.491635G	5.508391G	Inf	3
27.852M	5.486404G	5.514256G	16.782M	5.491635G	5.508417G	Inf	4

5.47-5.725GHz_802.11a_Nss1,(6Mbps)_4TX

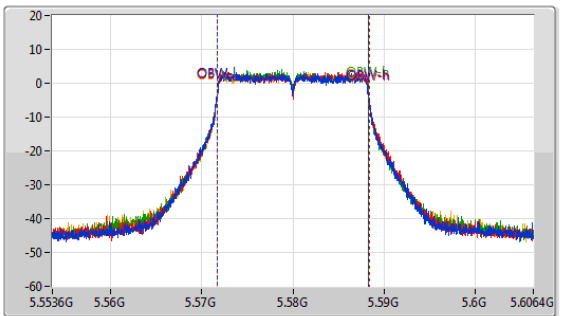
EBW

5580MHz

CF: 5.58GHz
 Span: 132MHz
 RBW: 200kHz
 VBW: 1MHz
 Sweep Time: 100ms
 Detector Type: Peak



CF: 5.58GHz
 Span: 52.8MHz
 RBW: 200kHz
 VBW: 1MHz
 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
21.45M	5.569044G	5.590494G	16.65M	5.571662G	5.588312G	Inf	1
21.054M	5.56944G	5.590494G	16.703M	5.571662G	5.588365G	Inf	2
21.12M	5.569308G	5.590428G	16.597M	5.571688G	5.588285G	Inf	3
20.856M	5.569506G	5.590362G	16.597M	5.571715G	5.588312G	Inf	4

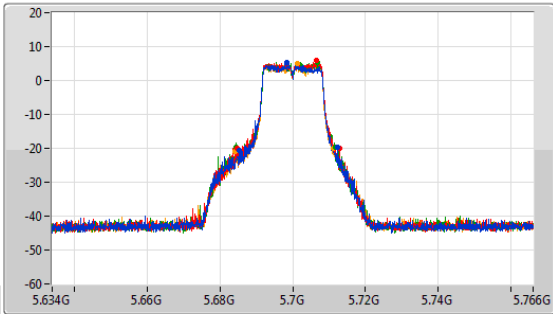


5.47-5.725GHz_802.11a_Nss1,(6Mbps)_4TX

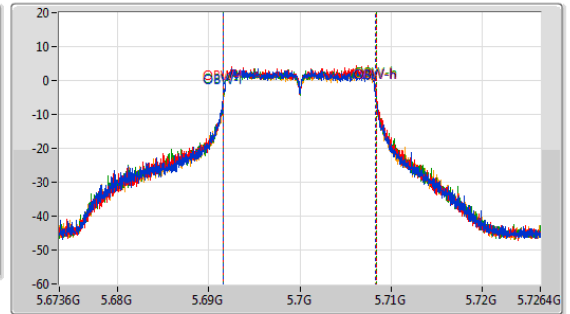
EBW

5700MHz

CF: 5.7GHz
 Span: 132MHz
 RBW: 300kHz
 VBW: 1MHz
 Sweep Time: 100ms
 Detector Type: Peak



CF: 5.7GHz
 Span: 52.8MHz
 RBW: 200kHz
 VBW: 1MHz
 Sweep Time: 100ms
 Detector Type: Peak



Port 1
 Port 2
 Port 3
 Port 4

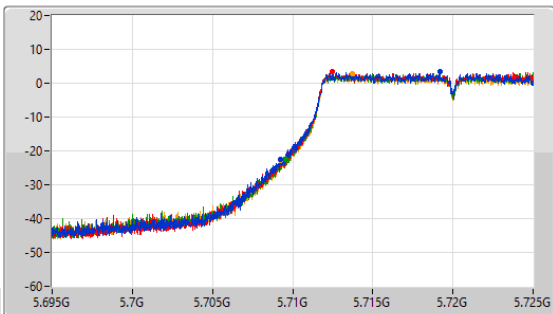
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
26.928M	5.685414G	5.712342G	16.808M	5.69153G	5.708338G	Inf	1
28.116M	5.68482G	5.712936G	16.808M	5.691583G	5.708391G	Inf	2
27.126M	5.68449G	5.711616G	16.808M	5.691556G	5.708365G	Inf	3
26.862M	5.684292G	5.711154G	16.782M	5.691556G	5.708338G	Inf	4

5.47-5.725GHz_802.11a_Nss1,(6Mbps)_4TX

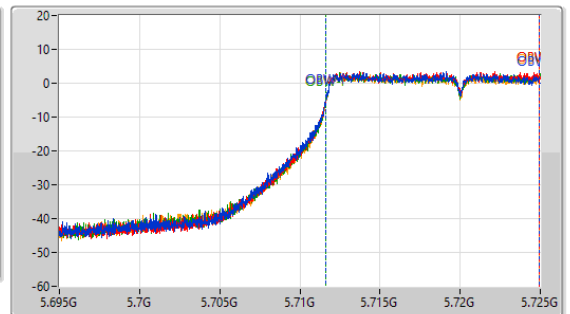
EBW

5720MHz Straddle 5.47-5.725GHz

CF: 5.71GHz
 Span: 30MHz
 RBW: 200kHz
 VBW: 1MHz
 Sweep Time: 100ms
 Detector Type: Peak



CF: 5.71GHz
 Span: 30MHz
 RBW: 200kHz
 VBW: 1MHz
 Sweep Time: 100ms
 Detector Type: Peak



Port 1
 Port 2
 Port 3
 Port 4

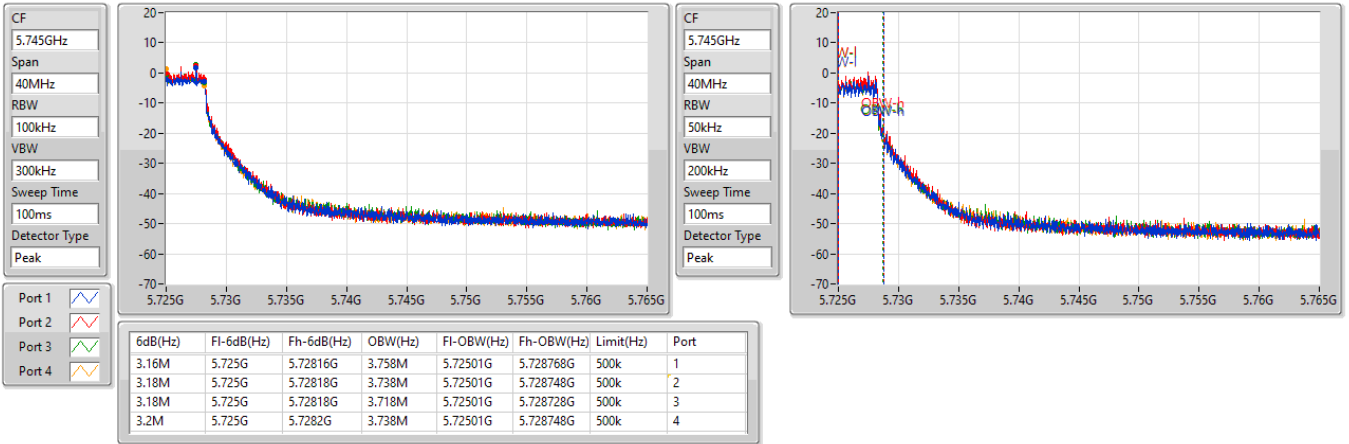
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
15.765M	5.709235G	5.725G	13.328M	5.711589G	5.724918G	Inf	1
15.735M	5.709265G	5.725G	13.328M	5.711604G	5.724933G	Inf	2
15.435M	5.709565G	5.725G	13.328M	5.711619G	5.724948G	Inf	3
15.75M	5.70925G	5.725G	13.313M	5.711634G	5.724948G	Inf	4



5.725-5.85GHz_802.11a_Nss1,(6Mbps)_4TX

EBW

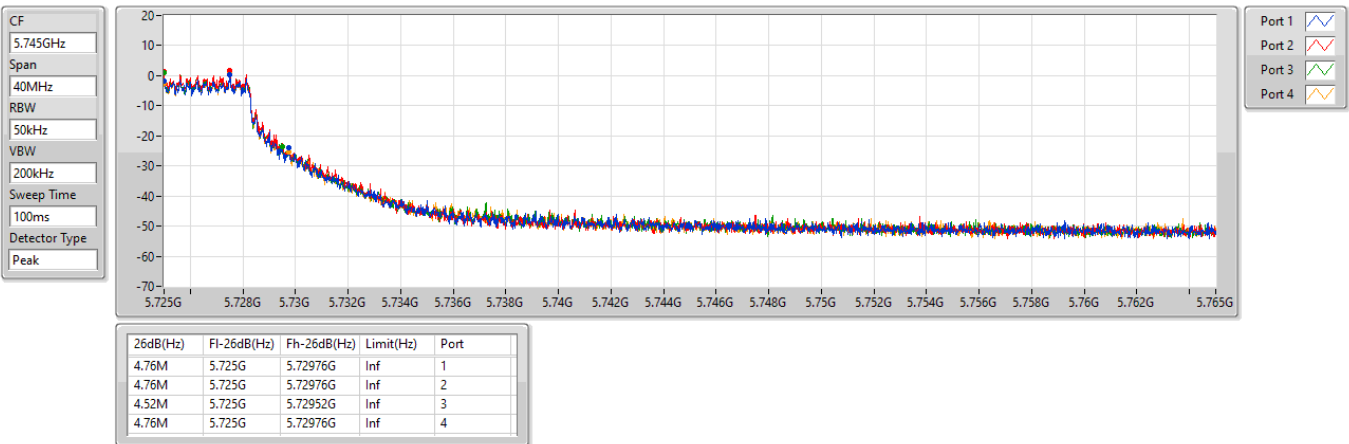
5720MHz Straddle 5.725-5.85GHz



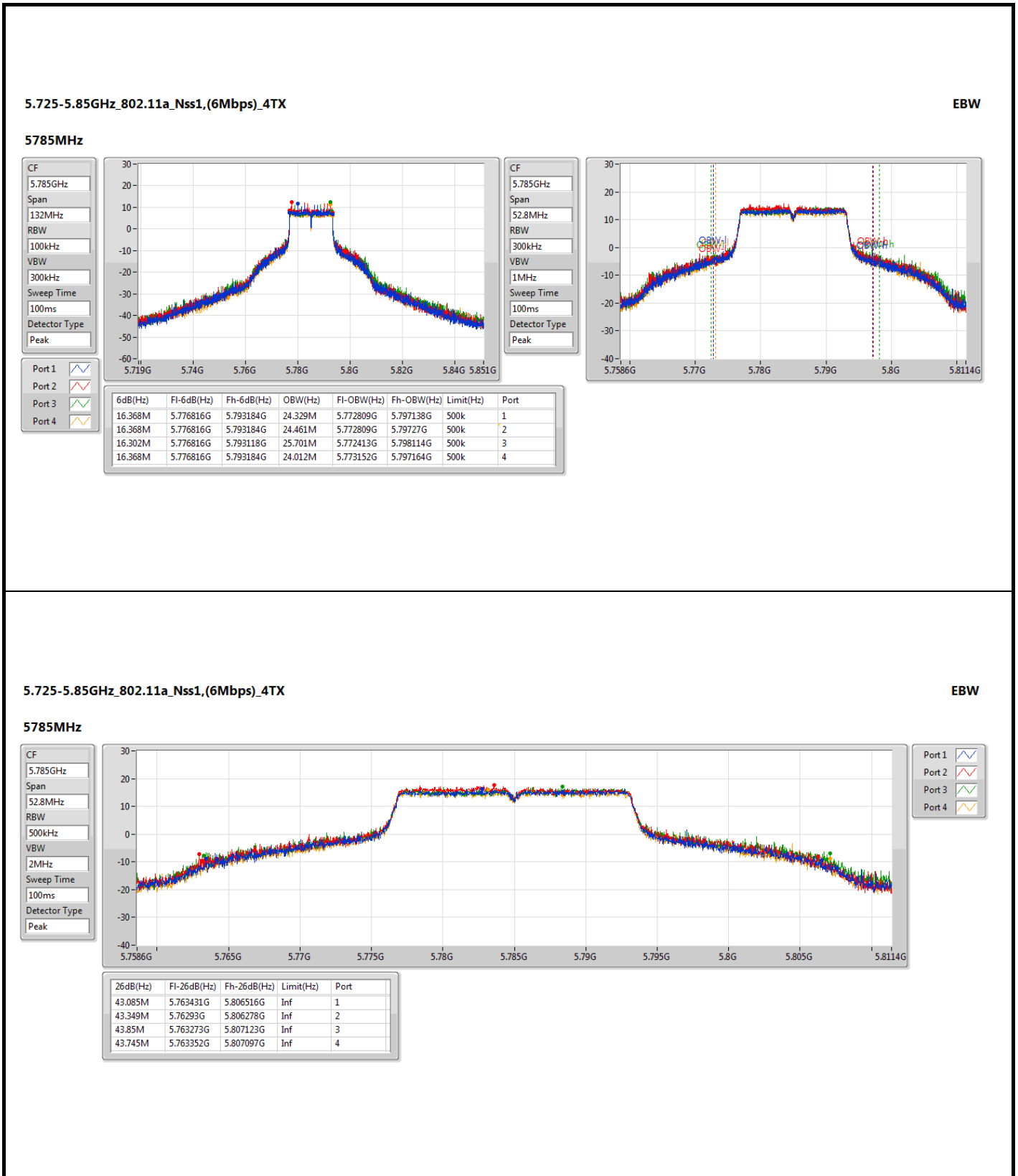
5.725-5.85GHz_802.11a_Nss1,(6Mbps)_4TX

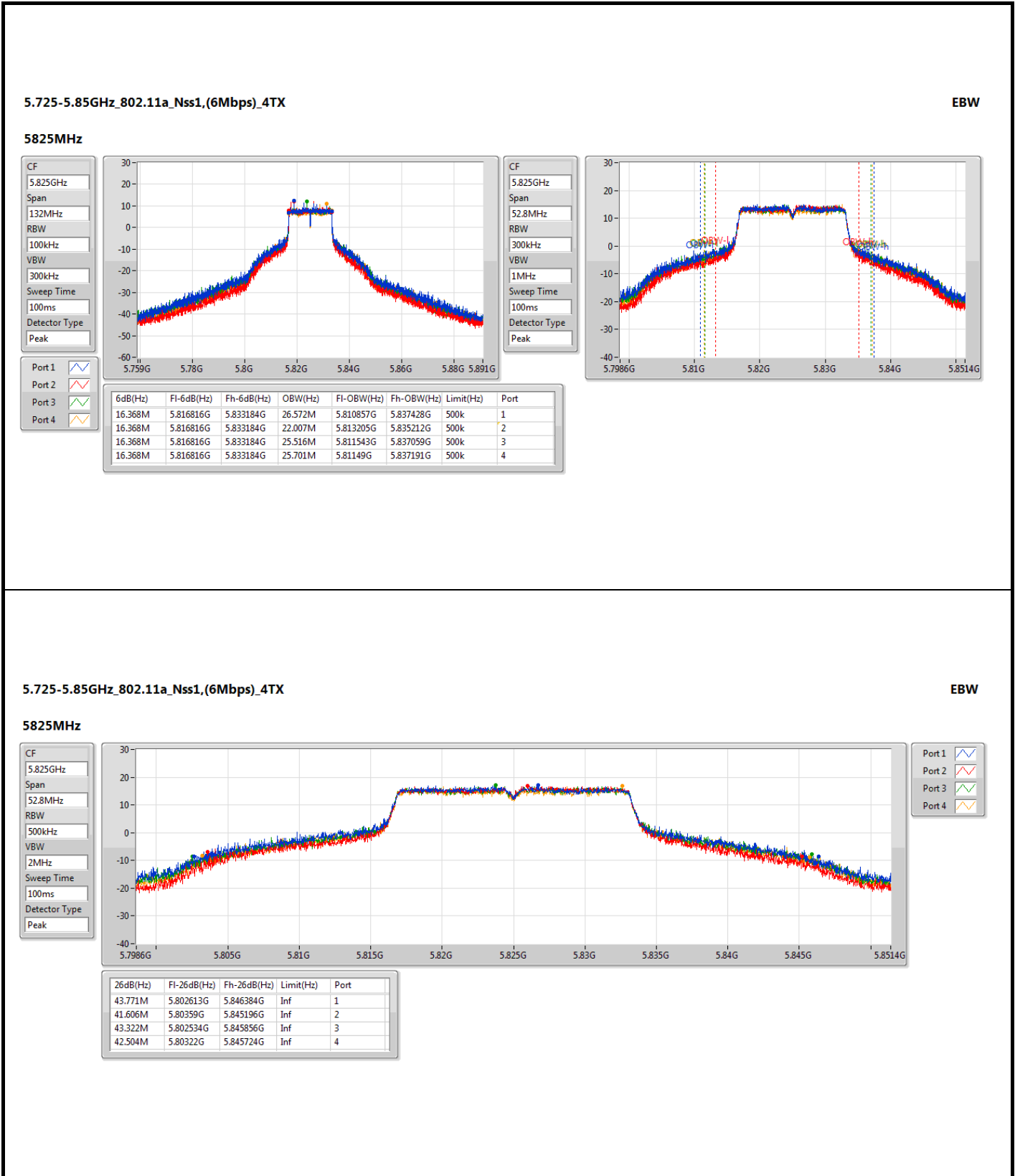
EBW

5720MHz Straddle 5.725-5.85GHz









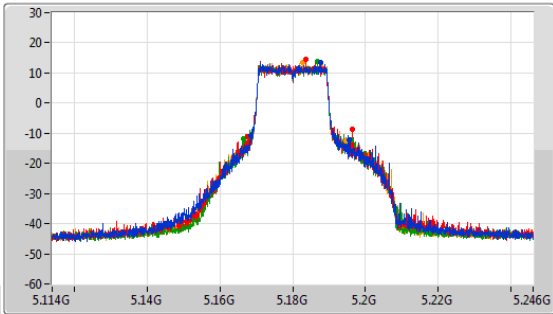


5.15-5.25GHz_802.11ax_HEW20_Nss1,(MCS0)_4TX

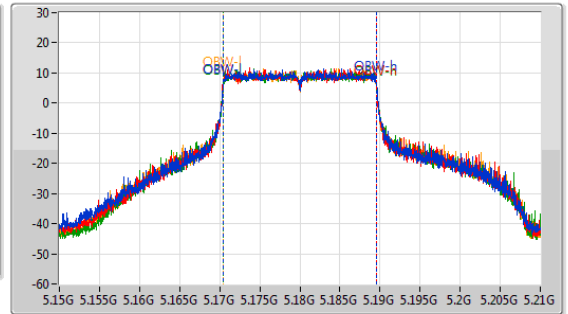
EBW

5180MHz

CF: 5.18GHz
 Span: 132MHz
 RBW: 300kHz
 VBW: 1MHz
 Sweep Time: 100ms
 Detector Type: Peak



CF: 5.18GHz
 Span: 60MHz
 RBW: 200kHz
 VBW: 1MHz
 Sweep Time: 100ms
 Detector Type: Peak



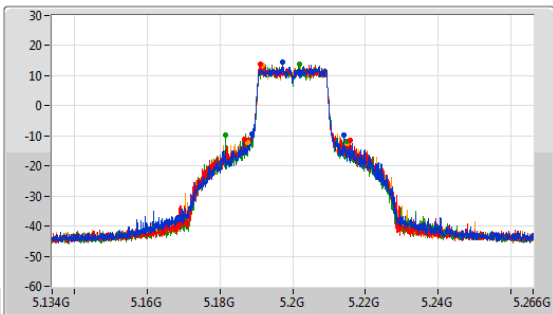
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
26.928M	5.168516G	5.195444G	19.19M	5.170435G	5.189625G	Inf	1
28.842M	5.167658G	5.1965G	19.19M	5.170405G	5.189595G	Inf	2
29.634M	5.166404G	5.196038G	19.19M	5.170435G	5.189625G	Inf	3
27.06M	5.167658G	5.194718G	19.16M	5.170435G	5.189595G	Inf	4

5.15-5.25GHz_802.11ax_HEW20_Nss1,(MCS0)_4TX

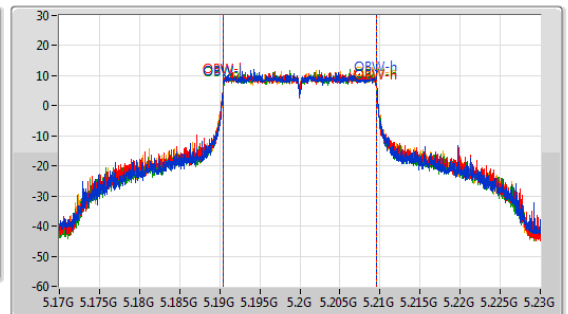
EBW

5200MHz

CF: 5.2GHz
 Span: 132MHz
 RBW: 300kHz
 VBW: 1MHz
 Sweep Time: 100ms
 Detector Type: Peak



CF: 5.2GHz
 Span: 60MHz
 RBW: 200kHz
 VBW: 1MHz
 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
25.146M	5.18878G	5.213926G	19.22M	5.190405G	5.209625G	Inf	1
28.908M	5.1868G	5.215708G	19.22M	5.190405G	5.209625G	Inf	2
33.396M	5.181454G	5.21485G	19.19M	5.190405G	5.209595G	Inf	3
27.522M	5.187526G	5.215048G	19.19M	5.190405G	5.209595G	Inf	4

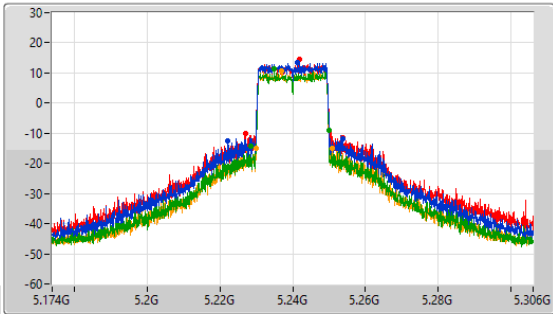


5.15-5.25GHz_802.11ax HEW20_Nss1,(MCS0)_4TX

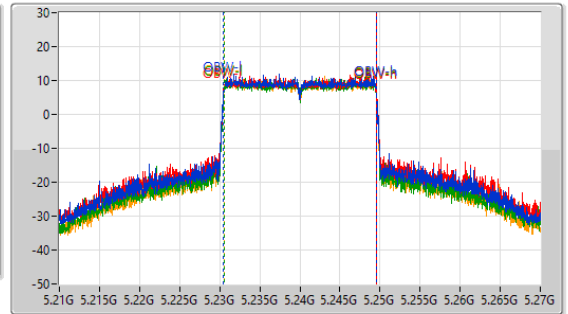
EBW

5240MHz

CF: 5.24GHz
 Span: 132MHz
 RBW: 300kHz
 VBW: 1MHz
 Sweep Time: 100ms
 Detector Type: Peak



CF: 5.24GHz
 Span: 60MHz
 RBW: 200kHz
 VBW: 1MHz
 Sweep Time: 100ms
 Detector Type: Peak



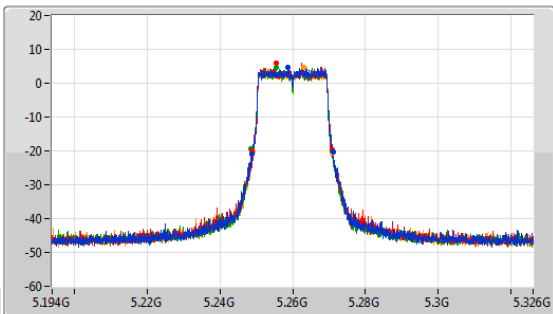
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
31.614M	5.222114G	5.253728G	19.04M	5.230495G	5.249535G	Inf	1
26.73M	5.226998G	5.253728G	19.04M	5.230495G	5.249535G	Inf	2
21.45M	5.22845G	5.2499G	18.981M	5.230525G	5.249505G	Inf	3
20.856M	5.230034G	5.25089G	18.981M	5.230525G	5.249505G	Inf	4

5.25-5.35GHz_802.11ax HEW20_Nss1,(MCS0)_4TX

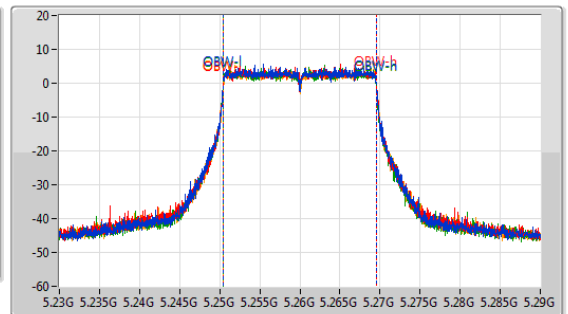
EBW

5260MHz

CF: 5.26GHz
 Span: 132MHz
 RBW: 200kHz
 VBW: 1MHz
 Sweep Time: 100ms
 Detector Type: Peak



CF: 5.26GHz
 Span: 60MHz
 RBW: 200kHz
 VBW: 1MHz
 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
22.374M	5.248846G	5.27122G	19.07M	5.250465G	5.269535G	Inf	1
21.978M	5.248912G	5.27089G	19.07M	5.250465G	5.269535G	Inf	2
22.242M	5.248648G	5.27089G	19.07M	5.250465G	5.269535G	Inf	3
22.044M	5.248978G	5.271022G	19.07M	5.250465G	5.269535G	Inf	4

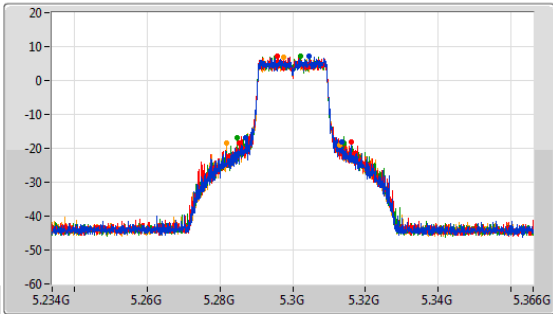


5.25-5.35GHz_802.11ax_HEW20_Nss1,(MCS0)_4TX

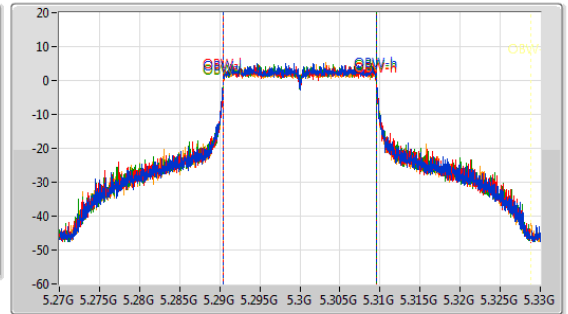
EBW

5300MHz

CF: 5.3GHz
 Span: 132MHz
 RBW: 300kHz
 VBW: 1MHz
 Sweep Time: 100ms
 Detector Type: Peak



CF: 5.3GHz
 Span: 60MHz
 RBW: 200kHz
 VBW: 1MHz
 Sweep Time: 100ms
 Detector Type: Peak



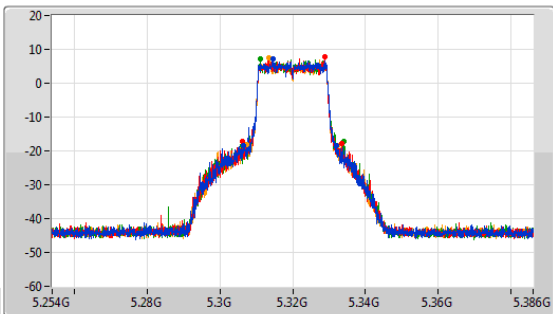
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
26.268M	5.28713G	5.313398G	19.16M	5.290435G	5.309595G	Inf	1
30.624M	5.285414G	5.316038G	19.19M	5.290435G	5.309625G	Inf	2
29.37M	5.28482G	5.31419G	19.19M	5.290405G	5.309595G	Inf	3
31.152M	5.28185G	5.313002G	19.19M	5.290405G	5.309595G	Inf	4

5.25-5.35GHz_802.11ax_HEW20_Nss1,(MCS0)_4TX

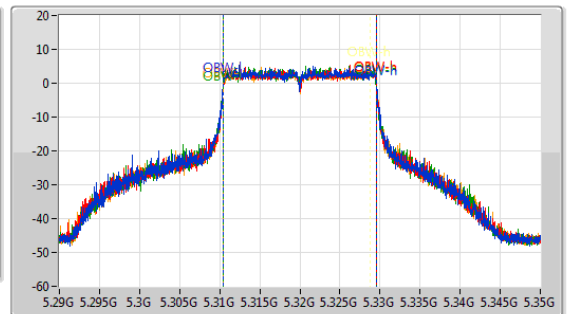
EBW

5320MHz

CF: 5.32GHz
 Span: 132MHz
 RBW: 300kHz
 VBW: 1MHz
 Sweep Time: 100ms
 Detector Type: Peak



CF: 5.32GHz
 Span: 60MHz
 RBW: 200kHz
 VBW: 1MHz
 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
25.542M	5.306536G	5.332078G	19.22M	5.310375G	5.329595G	Inf	1
27.126M	5.306338G	5.333464G	19.16M	5.310405G	5.329565G	Inf	2
27.984M	5.306206G	5.33419G	19.19M	5.310375G	5.329565G	Inf	3
25.014M	5.307394G	5.332408G	19.16M	5.310405G	5.329565G	Inf	4

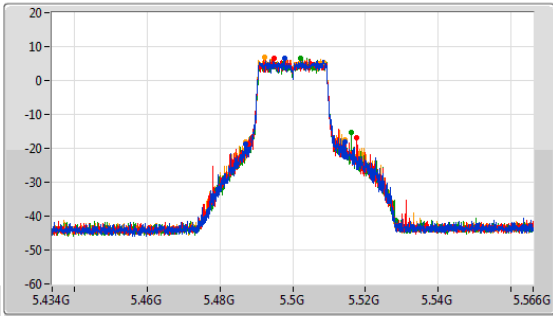


5.47-5.725GHz_802.11ax HEW20_Nss1,(MCS0)_4TX

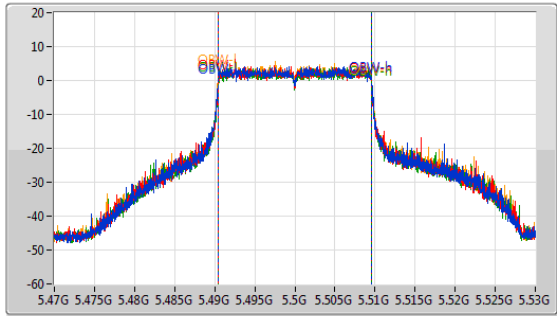
EBW

5500MHz

CF: 5.5GHz
 Span: 132MHz
 RBW: 300kHz
 VBW: 1MHz
 Sweep Time: 100ms
 Detector Type: Peak



CF: 5.5GHz
 Span: 60MHz
 RBW: 200kHz
 VBW: 1MHz
 Sweep Time: 100ms
 Detector Type: Peak



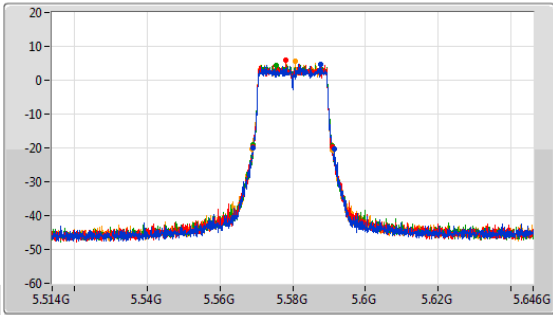
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
27.39M	5.487064G	5.514454G	19.19M	5.490405G	5.509595G	Inf	1
29.832M	5.487856G	5.517688G	19.22M	5.490405G	5.509625G	Inf	2
29.106M	5.486998G	5.516104G	19.19M	5.490435G	5.509625G	Inf	3
27.324M	5.487064G	5.514388G	19.16M	5.490435G	5.509595G	Inf	4

5.47-5.725GHz_802.11ax HEW20_Nss1,(MCS0)_4TX

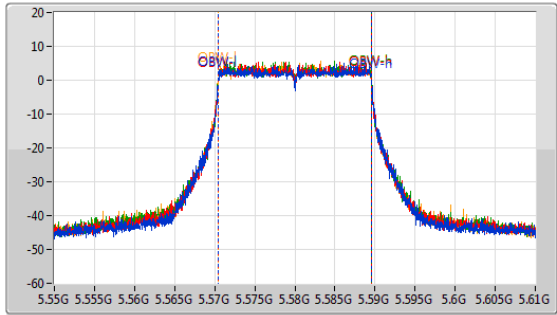
EBW

5580MHz

CF: 5.58GHz
 Span: 132MHz
 RBW: 200kHz
 VBW: 1MHz
 Sweep Time: 100ms
 Detector Type: Peak



CF: 5.58GHz
 Span: 60MHz
 RBW: 200kHz
 VBW: 1MHz
 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
22.572M	5.568978G	5.59155G	19.1M	5.570465G	5.589565G	Inf	1
21.78M	5.569044G	5.590824G	19.07M	5.570465G	5.589535G	Inf	2
21.912M	5.569044G	5.590956G	19.1M	5.570465G	5.589565G	Inf	3
22.11M	5.56878G	5.59089G	19.07M	5.570465G	5.589535G	Inf	4

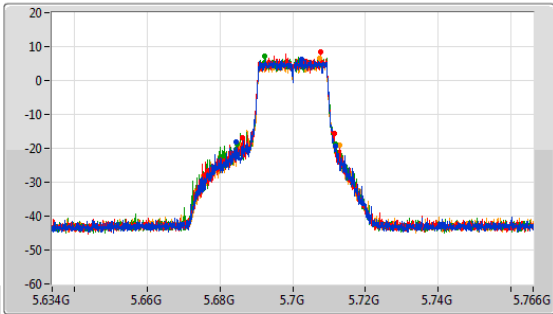


5.47-5.725GHz_802.11ax HEW20_Nss1,(MCS0)_4TX

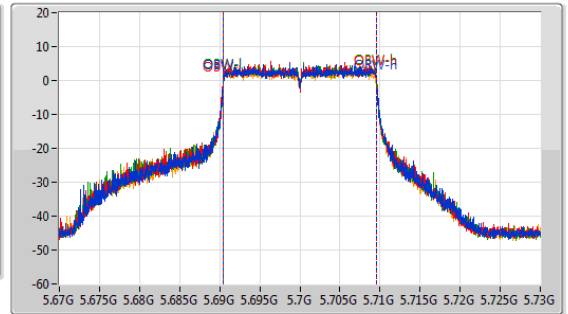
EBW

5700MHz

CF: 5.7GHz
 Span: 132MHz
 RBW: 300kHz
 VBW: 1MHz
 Sweep Time: 100ms
 Detector Type: Peak



CF: 5.7GHz
 Span: 60MHz
 RBW: 200kHz
 VBW: 1MHz
 Sweep Time: 100ms
 Detector Type: Peak



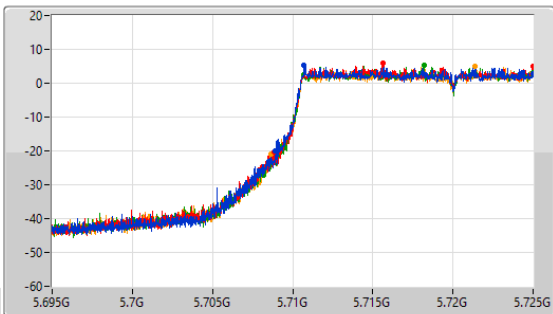
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
27.258M	5.684622G	5.71188G	19.13M	5.690435G	5.709565G	Inf	1
25.014M	5.686338G	5.711352G	19.13M	5.690405G	5.709535G	Inf	2
26.994M	5.684754G	5.711748G	19.19M	5.690405G	5.709595G	Inf	3
27.72M	5.68515G	5.71287G	19.13M	5.690405G	5.709535G	Inf	4

5.47-5.725GHz_802.11ax HEW20_Nss1,(MCS0)_4TX

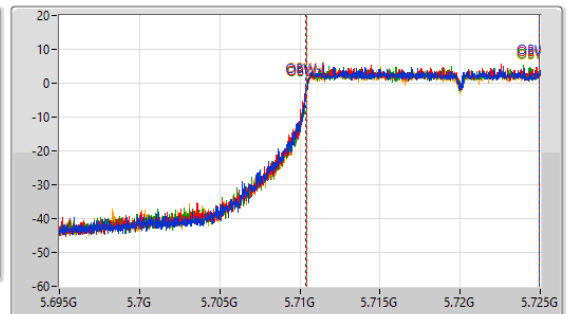
EBW

5720MHz Straddle 5.47-5.725GHz

CF: 5.71GHz
 Span: 30MHz
 RBW: 200kHz
 VBW: 1MHz
 Sweep Time: 100ms
 Detector Type: Peak



CF: 5.71GHz
 Span: 30MHz
 RBW: 200kHz
 VBW: 1MHz
 Sweep Time: 100ms
 Detector Type: Peak



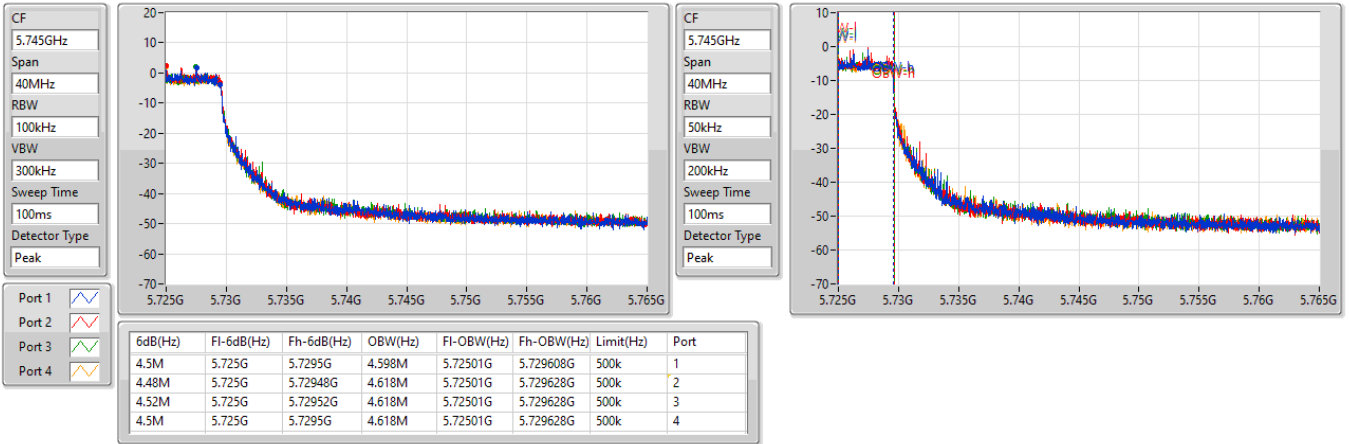
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.065M	5.708935G	5.725G	14.558M	5.71039G	5.724948G	Inf	1
16.185M	5.708815G	5.725G	14.528M	5.710405G	5.724933G	Inf	2
16.17M	5.70883G	5.725G	14.513M	5.71042G	5.724933G	Inf	3
16.365M	5.708635G	5.725G	14.543M	5.710405G	5.724948G	Inf	4



5.725-5.85GHz_802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

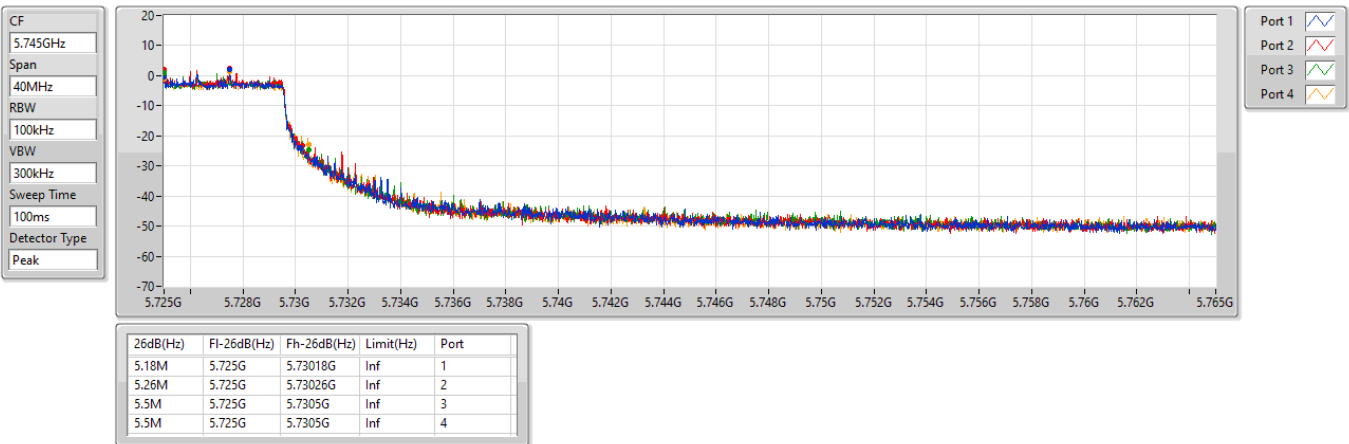
5720MHz Straddle 5.725-5.85GHz

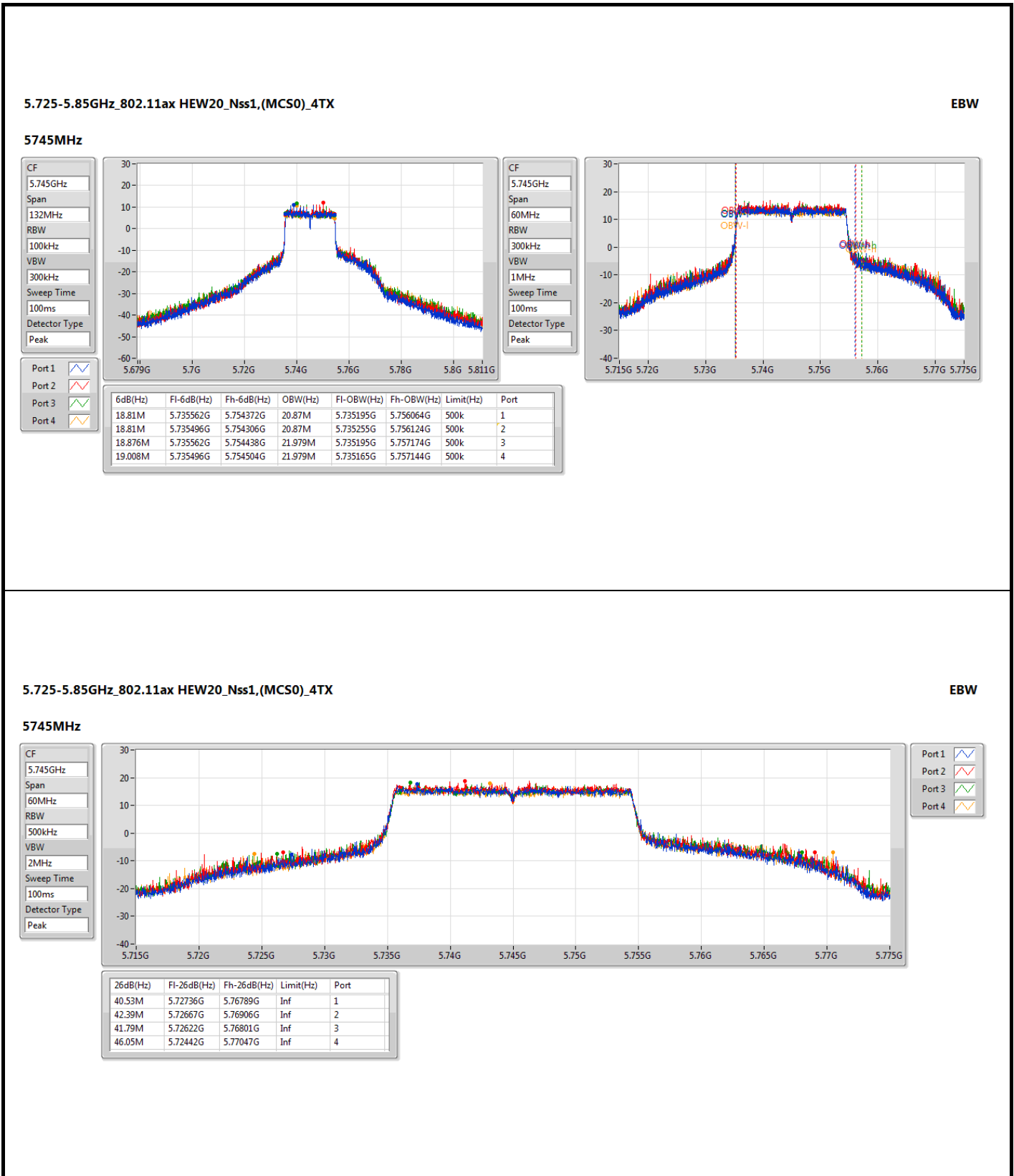


5.725-5.85GHz_802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

5720MHz Straddle 5.725-5.85GHz





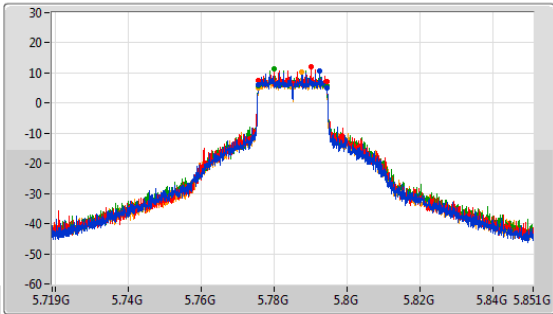


5.725-5.85GHz_802.11ax HEW20_Nss1,(MCS0)_4TX

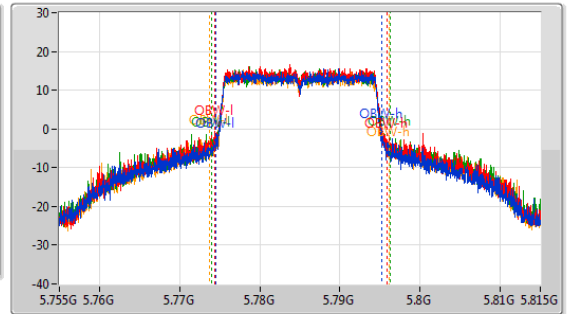
EBW

5785MHz

CF: 5.785GHz
 Span: 132MHz
 RBW: 100kHz
 VBW: 300kHz
 Sweep Time: 100ms
 Detector Type: Peak



CF: 5.785GHz
 Span: 60MHz
 RBW: 300kHz
 VBW: 1MHz
 Sweep Time: 100ms
 Detector Type: Peak



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
18.876M	5.775562G	5.794438G	20.66M	5.774535G	5.795195G	500k	1
18.876M	5.775562G	5.794438G	21.469M	5.774355G	5.795825G	500k	2
19.008M	5.775496G	5.794504G	22.339M	5.773996G	5.796334G	500k	3
19.008M	5.775496G	5.794504G	22.339M	5.773786G	5.796184G	500k	4

5.725-5.85GHz_802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

5785MHz

CF: 5.785GHz
 Span: 60MHz
 RBW: 500kHz
 VBW: 2MHz
 Sweep Time: 100ms
 Detector Type: Peak



Port 1
 Port 2
 Port 3
 Port 4

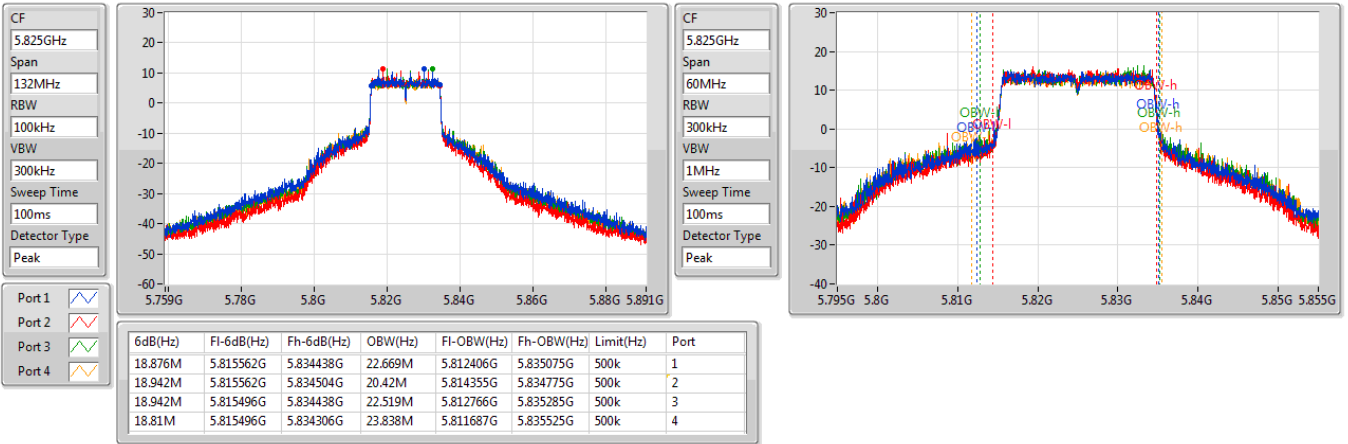
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	Limit(Hz)	Port
45.63M	5.7616G	5.80723G	Inf	1
44.88M	5.76307G	5.80795G	Inf	2
48.06M	5.76112G	5.80918G	Inf	3
48.36M	5.75893G	5.80729G	Inf	4



5.725-5.85GHz_802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

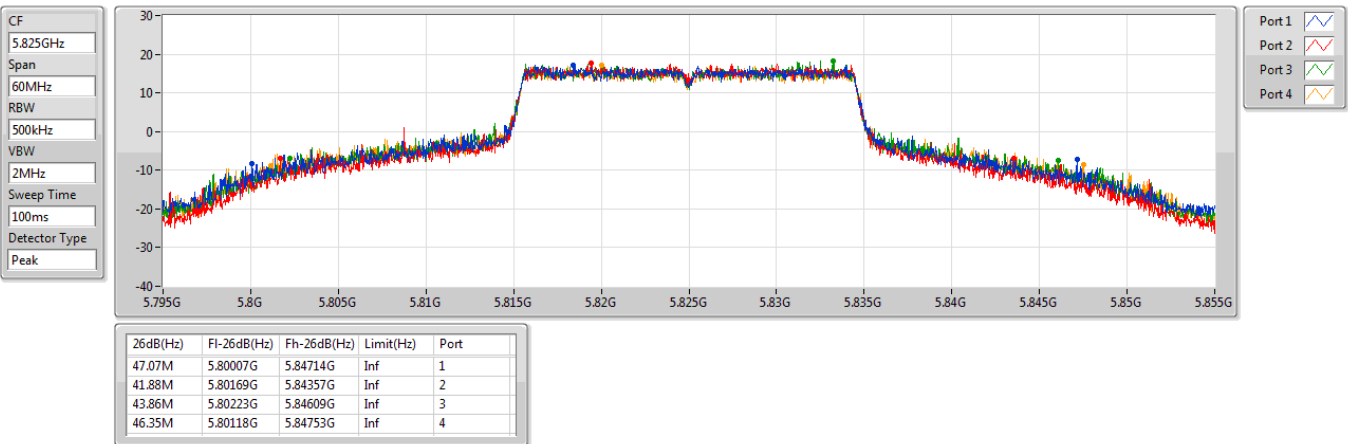
5825MHz



5.725-5.85GHz_802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

5825MHz



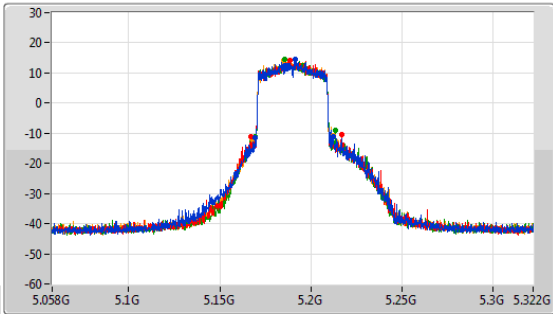


5.15-5.25GHz_802.11ax_HEW40_Nss1,(MCS0)_4TX

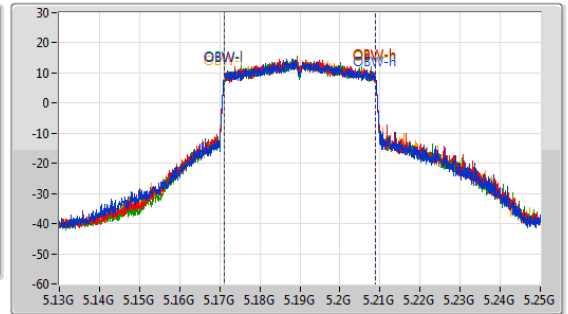
EBW

5190MHz

CF: 5.19GHz
 Span: 264MHz
 RBW: 500kHz
 VBW: 2MHz
 Sweep Time: 100ms
 Detector Type: Peak



CF: 5.19GHz
 Span: 120MHz
 RBW: 500kHz
 VBW: 2MHz
 Sweep Time: 100ms
 Detector Type: Peak



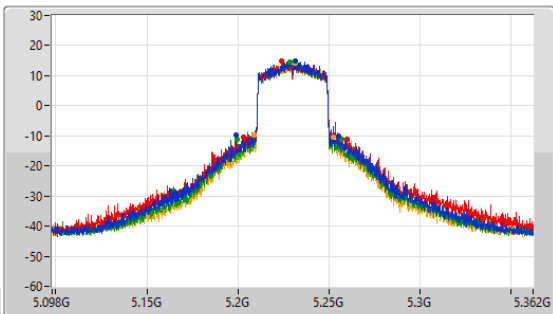
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
42.9M	5.169408G	5.212308G	37.721M	5.171169G	5.208891G	Inf	1
49.764M	5.167164G	5.216928G	37.721M	5.171169G	5.208891G	Inf	2
44.088M	5.169276G	5.213364G	37.661M	5.171229G	5.208891G	Inf	3
45.012M	5.167428G	5.21244G	37.721M	5.171169G	5.208891G	Inf	4

5.15-5.25GHz_802.11ax_HEW40_Nss1,(MCS0)_4TX

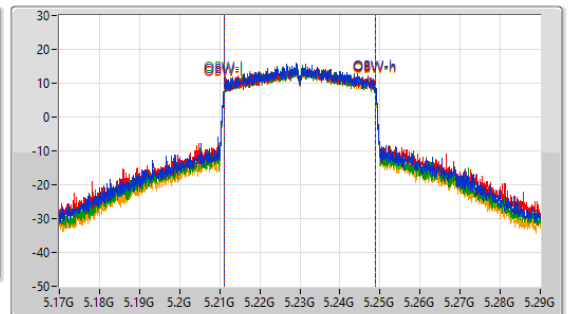
EBW

5230MHz

CF: 5.23GHz
 Span: 264MHz
 RBW: 500kHz
 VBW: 2MHz
 Sweep Time: 100ms
 Detector Type: Peak



CF: 5.23GHz
 Span: 120MHz
 RBW: 500kHz
 VBW: 2MHz
 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
56.232M	5.198848G	5.25508G	37.781M	5.211109G	5.248891G	Inf	1
56.76M	5.203204G	5.259964G	37.901M	5.211049G	5.248951G	Inf	2
57.552M	5.19964G	5.257192G	37.781M	5.211109G	5.248891G	Inf	3
43.692M	5.208616G	5.252308G	37.721M	5.211169G	5.248891G	Inf	4

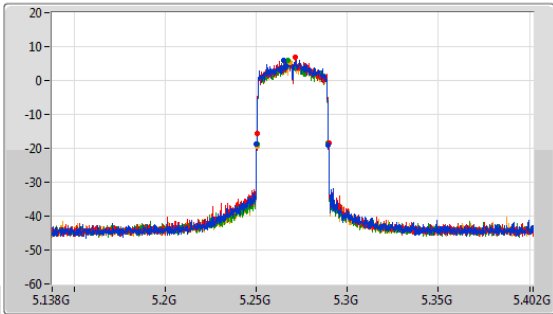


5.25-5.35GHz_802.11ax_HEW40_Nss1,(MCS0)_4TX

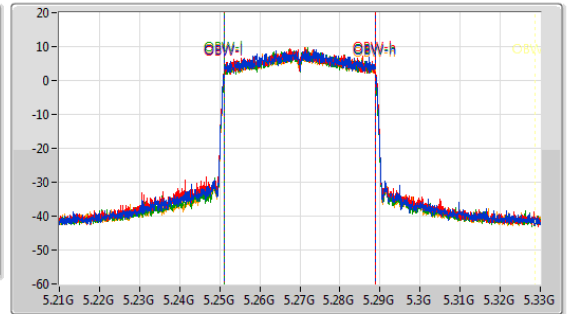
EBW

5270MHz

CF: 5.27GHz
 Span: 264MHz
 RBW: 300kHz
 VBW: 1MHz
 Sweep Time: 100ms
 Detector Type: Peak



CF: 5.27GHz
 Span: 120MHz
 RBW: 500kHz
 VBW: 2MHz
 Sweep Time: 100ms
 Detector Type: Peak



Port 1: [Blue line]
 Port 2: [Red line]
 Port 3: [Green line]
 Port 4: [Orange line]

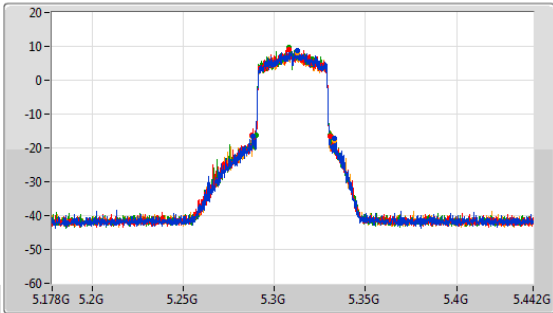
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
39.468M	5.2502G	5.289668G	37.601M	5.251169G	5.288771G	Inf	1
39.336M	5.250464G	5.2898G	37.601M	5.251229G	5.288831G	Inf	2
39.336M	5.250332G	5.289668G	37.541M	5.251229G	5.288771G	Inf	3
39.336M	5.250332G	5.289668G	37.601M	5.251169G	5.288771G	Inf	4

5.25-5.35GHz_802.11ax_HEW40_Nss1,(MCS0)_4TX

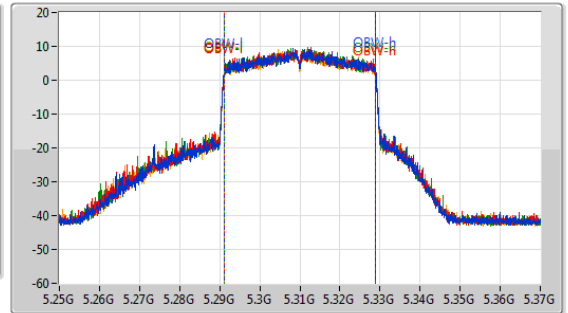
EBW

5310MHz

CF: 5.31GHz
 Span: 264MHz
 RBW: 500kHz
 VBW: 2MHz
 Sweep Time: 100ms
 Detector Type: Peak



CF: 5.31GHz
 Span: 120MHz
 RBW: 500kHz
 VBW: 2MHz
 Sweep Time: 100ms
 Detector Type: Peak



Port 1: [Blue line]
 Port 2: [Red line]
 Port 3: [Green line]
 Port 4: [Orange line]

26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
45.144M	5.287956G	5.3331G	37.661M	5.291169G	5.328831G	Inf	1
43.032M	5.28756G	5.330592G	37.661M	5.291169G	5.328831G	Inf	2
40.656M	5.290068G	5.330724G	37.661M	5.291169G	5.328831G	Inf	3
45.54M	5.287428G	5.332968G	37.661M	5.291169G	5.328831G	Inf	4

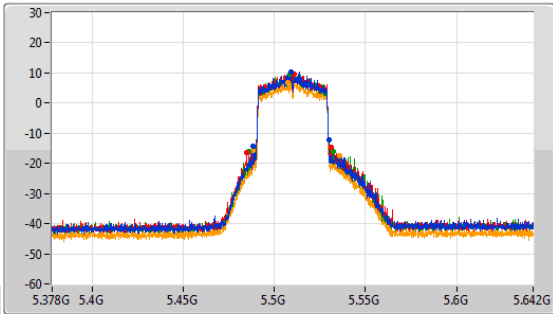


5.47-5.725GHz_802.11ax HEW40_Nss1,(MCS0)_4TX

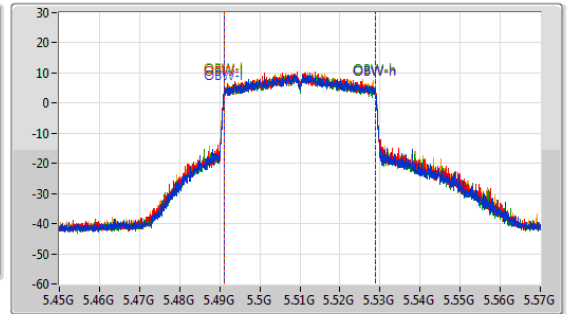
EBW

5510MHz

CF: 5.51GHz
 Span: 264MHz
 RBW: 500kHz
 VBW: 2MHz
 Sweep Time: 100ms
 Detector Type: Peak



CF: 5.51GHz
 Span: 120MHz
 RBW: 500kHz
 VBW: 2MHz
 Sweep Time: 100ms
 Detector Type: Peak



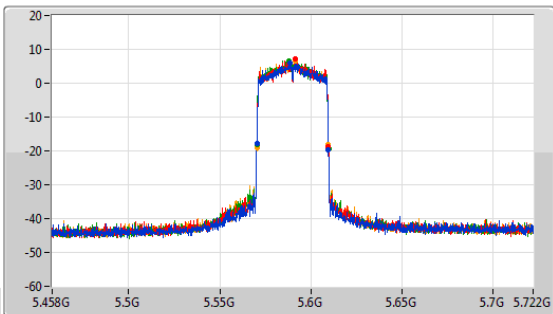
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
41.316M	5.488484G	5.5298G	37.721M	5.491169G	5.528891G	Inf	1
46.464M	5.484656G	5.53112G	37.781M	5.491109G	5.528891G	Inf	2
46.464M	5.486108G	5.532572G	37.661M	5.491169G	5.528831G	Inf	3
47.52M	5.488484G	5.536004G	37.661M	5.491229G	5.528891G	Inf	4

5.47-5.725GHz_802.11ax HEW40_Nss1,(MCS0)_4TX

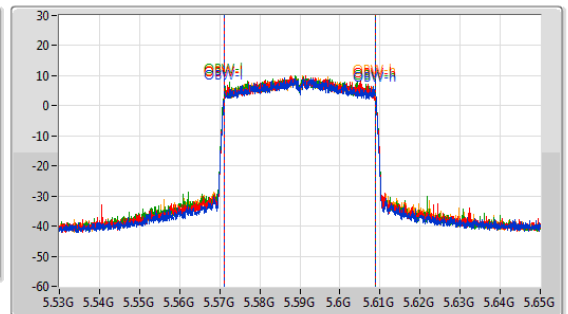
EBW

5590MHz

CF: 5.59GHz
 Span: 264MHz
 RBW: 300kHz
 VBW: 1MHz
 Sweep Time: 100ms
 Detector Type: Peak



CF: 5.59GHz
 Span: 120MHz
 RBW: 500kHz
 VBW: 2MHz
 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
39.336M	5.570332G	5.609668G	37.541M	5.571229G	5.608771G	Inf	1
39.336M	5.570332G	5.609668G	37.541M	5.571229G	5.608771G	Inf	2
39.468M	5.570332G	5.6098G	37.541M	5.571229G	5.608771G	Inf	3
39.336M	5.570332G	5.609668G	37.601M	5.571229G	5.608831G	Inf	4

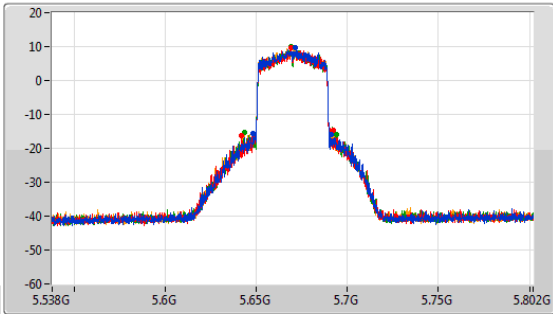


5.47-5.725GHz_802.11ax HEW40_Nss1,(MCS0)_4TX

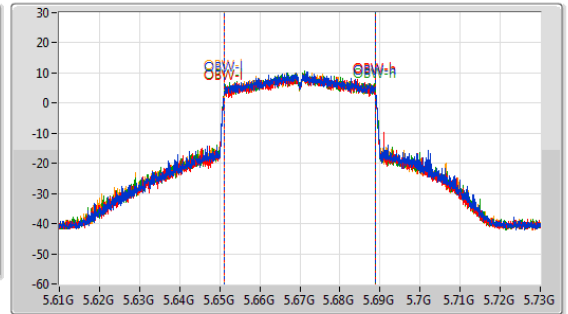
EBW

5670MHz

CF: 5.67GHz
 Span: 264MHz
 RBW: 500kHz
 VBW: 2MHz
 Sweep Time: 100ms
 Detector Type: Peak



CF: 5.67GHz
 Span: 120MHz
 RBW: 500kHz
 VBW: 2MHz
 Sweep Time: 100ms
 Detector Type: Peak



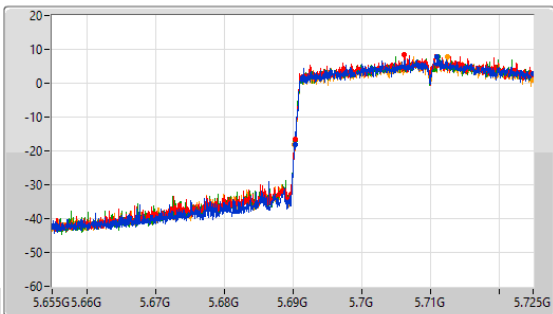
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
43.164M	5.648088G	5.691252G	37.721M	5.651169G	5.688891G	Inf	1
50.028M	5.642148G	5.692176G	37.781M	5.651109G	5.688891G	Inf	2
50.688M	5.643336G	5.694024G	37.781M	5.651109G	5.688891G	Inf	3
49.104M	5.642676G	5.69178G	37.721M	5.651169G	5.688891G	Inf	4

5.47-5.725GHz_802.11ax HEW40_Nss1,(MCS0)_4TX

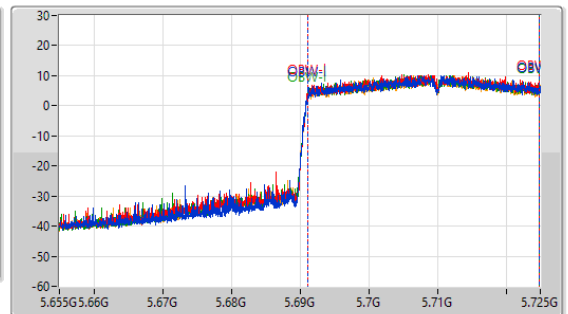
EBW

5710MHz Straddle 5.47-5.725GHz

CF: 5.69GHz
 Span: 70MHz
 RBW: 300kHz
 VBW: 1MHz
 Sweep Time: 100ms
 Detector Type: Peak



CF: 5.69GHz
 Span: 70MHz
 RBW: 500kHz
 VBW: 2MHz
 Sweep Time: 100ms
 Detector Type: Peak



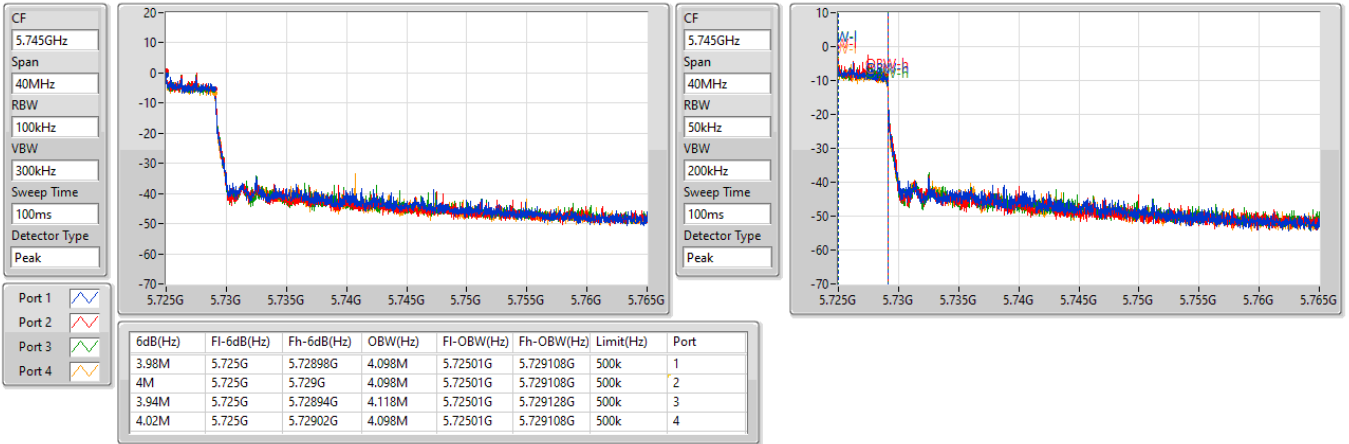
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
34.685M	5.690315G	5.725G	33.548M	5.691224G	5.724773G	Inf	1
34.615M	5.690385G	5.725G	33.548M	5.691224G	5.724773G	Inf	2
34.685M	5.690315G	5.725G	33.548M	5.691224G	5.724773G	Inf	3
34.755M	5.690245G	5.725G	33.618M	5.691189G	5.724808G	Inf	4



5.725-5.85GHz_802.11ax HEW40_Nss1,(MCS0)_4TX

EBW

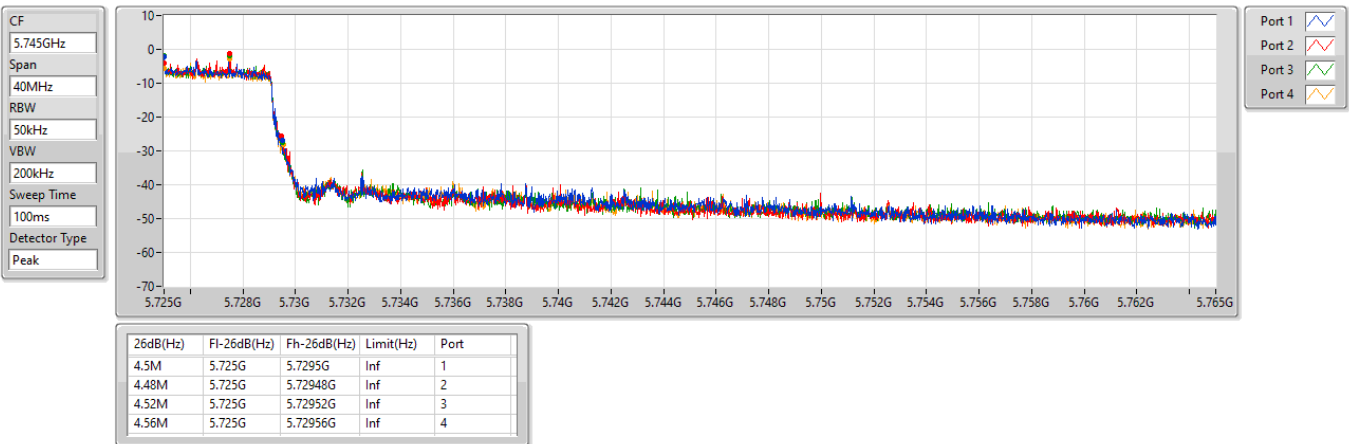
5710MHz Straddle 5.725-5.85GHz

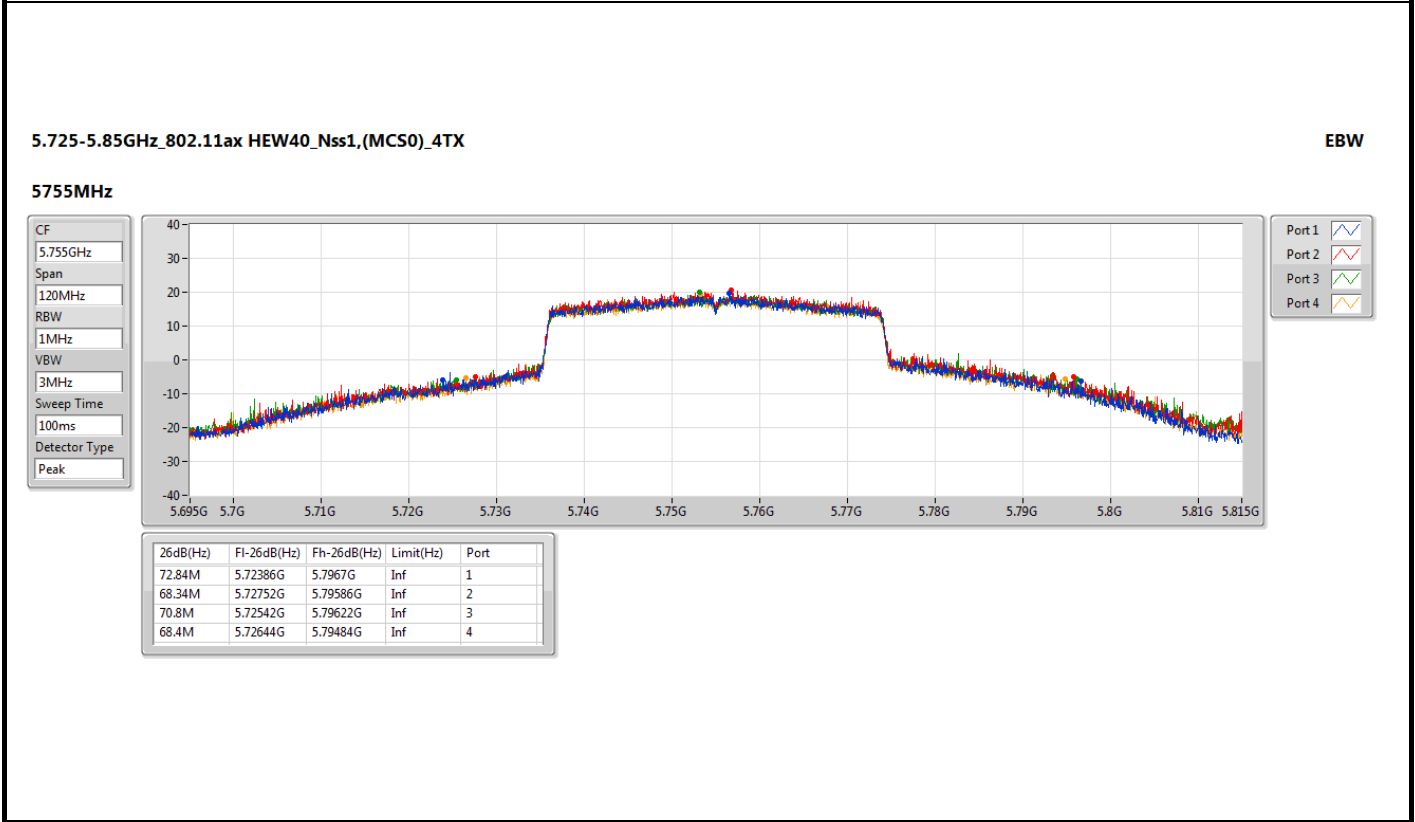
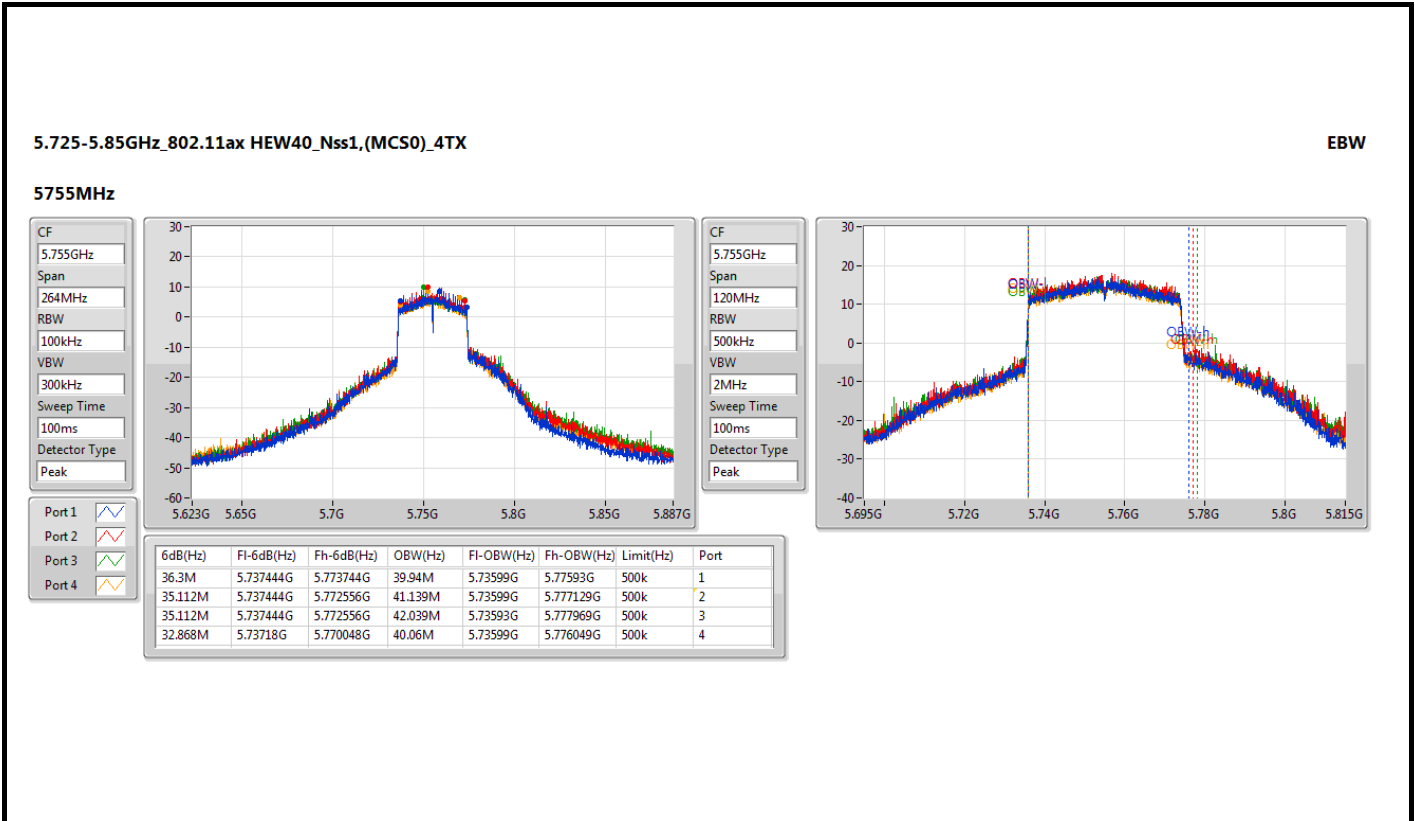


5.725-5.85GHz_802.11ax HEW40_Nss1,(MCS0)_4TX

EBW

5710MHz Straddle 5.725-5.85GHz





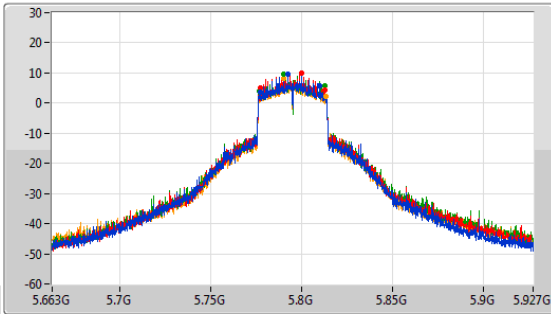


5.725-5.85GHz_802.11ax HEW40_Nss1,(MCS0)_4TX

EBW

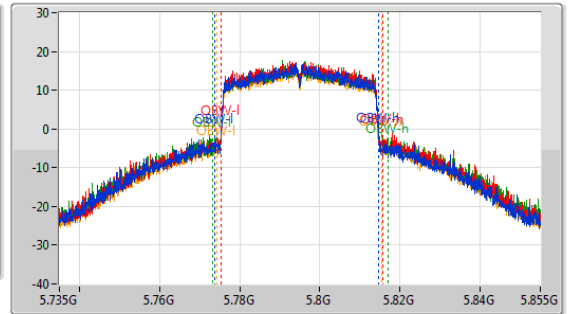
5795MHz

CF: 5.795GHz
 Span: 264MHz
 RBW: 100kHz
 VBW: 300kHz
 Sweep Time: 100ms
 Detector Type: Peak



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
32.604M	5.777444G	5.810048G	40.96M	5.773711G	5.81467G	500k	1
35.112M	5.777444G	5.812556G	40.48M	5.77527G	5.81575G	500k	2
36.036M	5.77652G	5.812556G	43.778M	5.773291G	5.817069G	500k	3
35.64M	5.777444G	5.813084G	41.379M	5.77419G	5.81557G	500k	4

CF: 5.795GHz
 Span: 120MHz
 RBW: 500kHz
 VBW: 2MHz
 Sweep Time: 100ms
 Detector Type: Peak

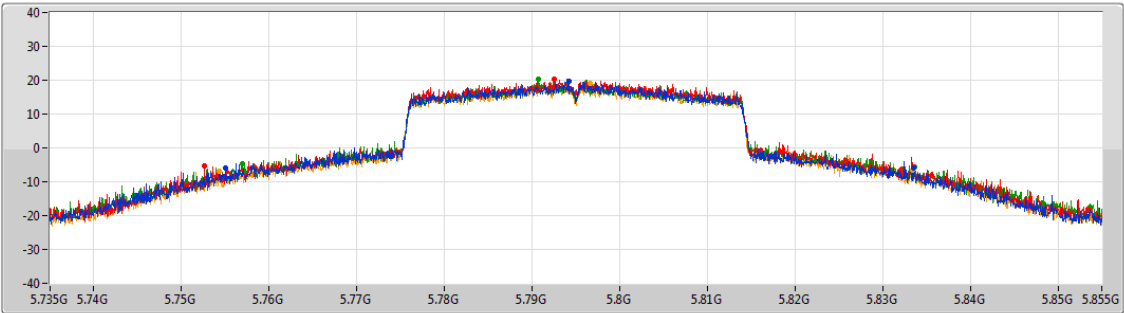


5.725-5.85GHz_802.11ax HEW40_Nss1,(MCS0)_4TX

EBW

5795MHz

CF: 5.795GHz
 Span: 120MHz
 RBW: 1MHz
 VBW: 3MHz
 Sweep Time: 100ms
 Detector Type: Peak



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	Limit(Hz)	Port
78.54M	5.75498G	5.83352G	Inf	1
81M	5.75258G	5.83358G	Inf	2
76.68M	5.75696G	5.83364G	Inf	3
79.08M	5.75432G	5.8334G	Inf	4

Port 1
 Port 2
 Port 3
 Port 4

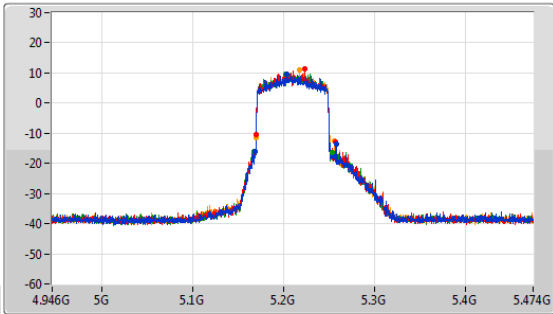


5.15-5.25GHz_802.11ax_HEW80_Nss1,(MCS0)_4TX

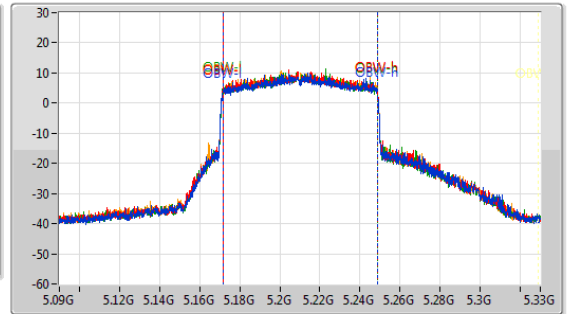
EBW

5210MHz

CF: 5.21GHz
 Span: 528MHz
 RBW: 1MHz
 VBW: 3MHz
 Sweep Time: 100ms
 Detector Type: Peak



CF: 5.21GHz
 Span: 240MHz
 RBW: 1MHz
 VBW: 3MHz
 Sweep Time: 100ms
 Detector Type: Peak



Port 1: [Waveform icon]
 Port 2: [Waveform icon]
 Port 3: [Waveform icon]
 Port 4: [Waveform icon]

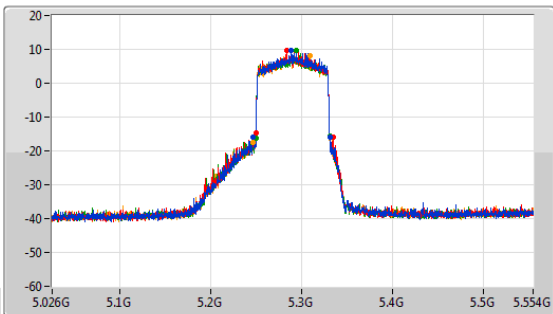
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
89.496M	5.168288G	5.257784G	77.121M	5.171499G	5.248621G	Inf	1
87.384M	5.169872G	5.257256G	77.121M	5.171499G	5.248621G	Inf	2
85.8M	5.167496G	5.253296G	77.121M	5.171499G	5.248621G	Inf	3
85.8M	5.169872G	5.255672G	77.001M	5.171619G	5.248621G	Inf	4

5.25-5.35GHz_802.11ax_HEW80_Nss1,(MCS0)_4TX

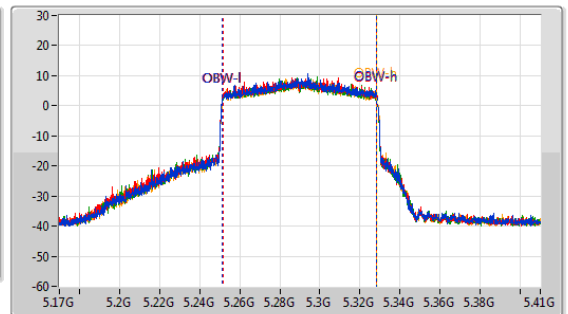
EBW

5290MHz

CF: 5.29GHz
 Span: 528MHz
 RBW: 1MHz
 VBW: 3MHz
 Sweep Time: 100ms
 Detector Type: Peak



CF: 5.29GHz
 Span: 240MHz
 RBW: 1MHz
 VBW: 3MHz
 Sweep Time: 100ms
 Detector Type: Peak



Port 1: [Waveform icon]
 Port 2: [Waveform icon]
 Port 3: [Waveform icon]
 Port 4: [Waveform icon]

26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
83.688M	5.246968G	5.330656G	77.001M	5.251379G	5.328381G	Inf	1
84.744M	5.249872G	5.334616G	77.001M	5.251499G	5.328501G	Inf	2
81.312M	5.249608G	5.33092G	77.121M	5.251379G	5.328501G	Inf	3
86.856M	5.246176G	5.333032G	77.001M	5.251499G	5.328501G	Inf	4

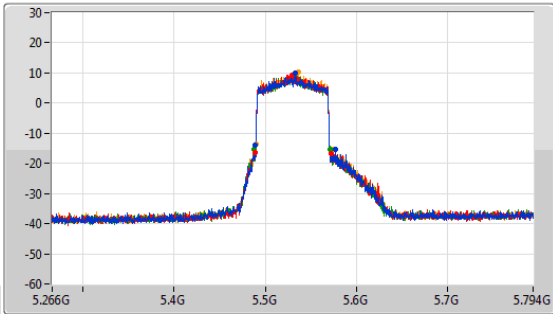


5.47-5.725GHz_802.11ax HEW80_Nss1,(MCS0)_4TX

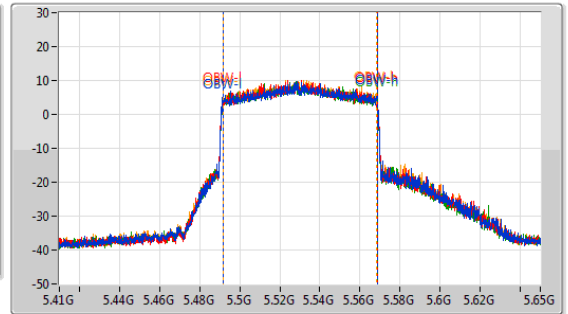
EBW

5530MHz

CF: 5.53GHz
 Span: 528MHz
 RBW: 1MHz
 VBW: 3MHz
 Sweep Time: 100ms
 Detector Type: Peak



CF: 5.53GHz
 Span: 240MHz
 RBW: 1MHz
 VBW: 3MHz
 Sweep Time: 100ms
 Detector Type: Peak



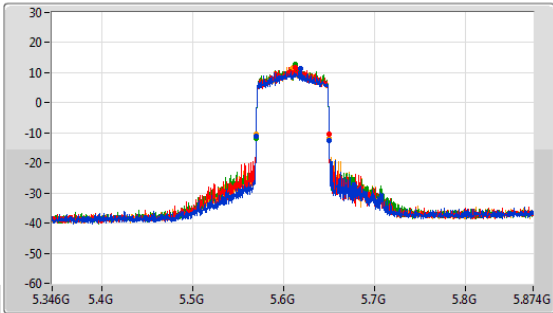
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
88.704M	5.488552G	5.577256G	77.121M	5.491499G	5.568621G	Inf	1
83.688M	5.488288G	5.571976G	77.121M	5.491499G	5.568621G	Inf	2
83.688M	5.48776G	5.571448G	77.001M	5.491619G	5.568621G	Inf	3
83.16M	5.489872G	5.573032G	77.001M	5.491499G	5.568501G	Inf	4

5.47-5.725GHz_802.11ax HEW80_Nss1,(MCS0)_4TX

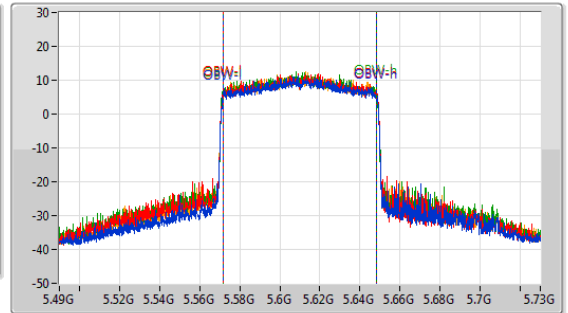
EBW

5610MHz

CF: 5.61GHz
 Span: 528MHz
 RBW: 1MHz
 VBW: 3MHz
 Sweep Time: 100ms
 Detector Type: Peak



CF: 5.61GHz
 Span: 240MHz
 RBW: 1MHz
 VBW: 3MHz
 Sweep Time: 100ms
 Detector Type: Peak



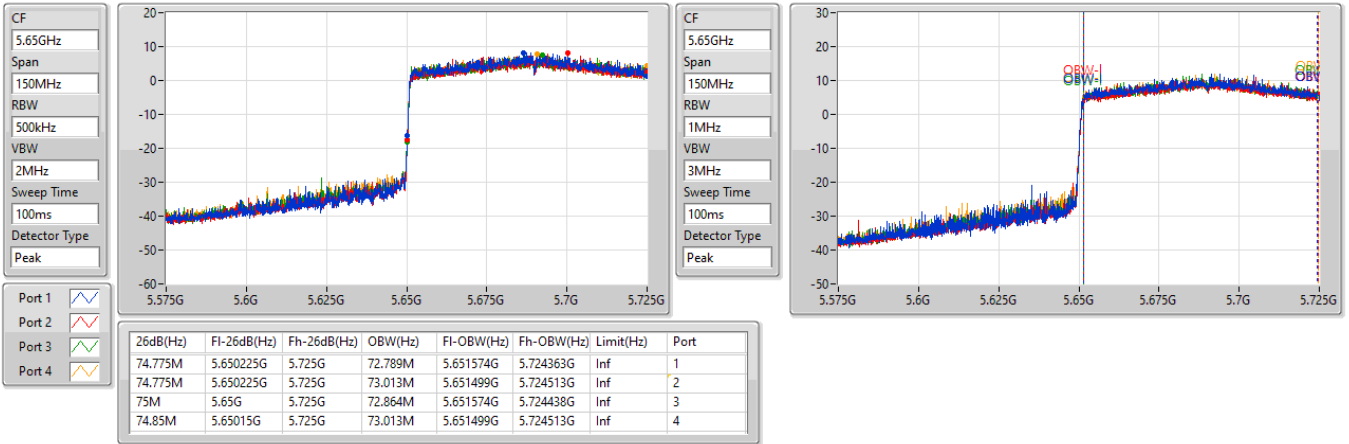
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
80.256M	5.569872G	5.650128G	76.882M	5.571619G	5.648501G	Inf	1
80.256M	5.569872G	5.650128G	76.882M	5.571619G	5.648501G	Inf	2
80.256M	5.569872G	5.650128G	76.882M	5.571499G	5.648381G	Inf	3
80.256M	5.569872G	5.650128G	77.001M	5.571499G	5.648501G	Inf	4



5.47-5.725GHz_802.11ax HEW80_Nss1,(MCS0)_4TX

EBW

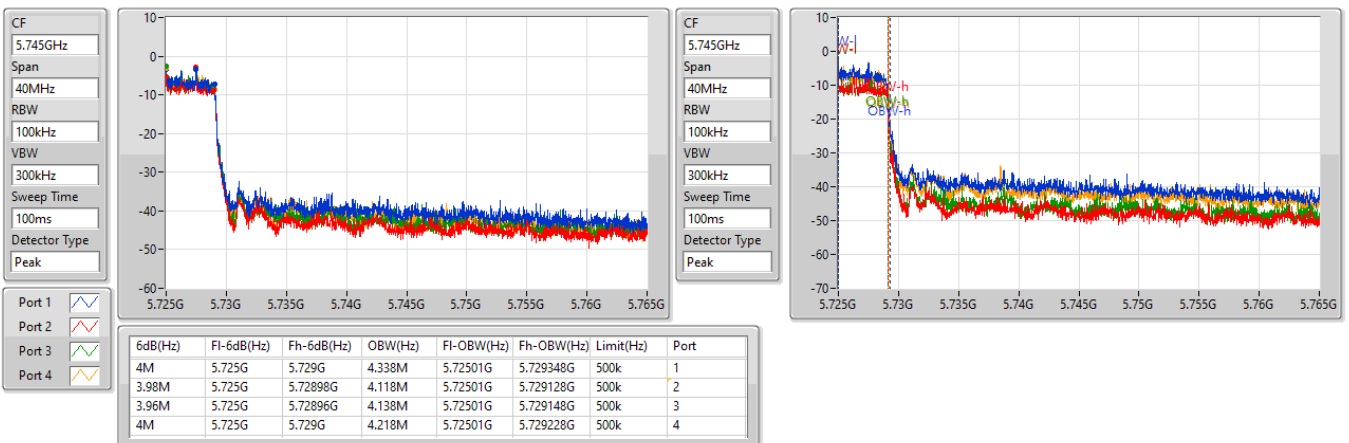
5690MHz Straddle 5.47-5.725GHz

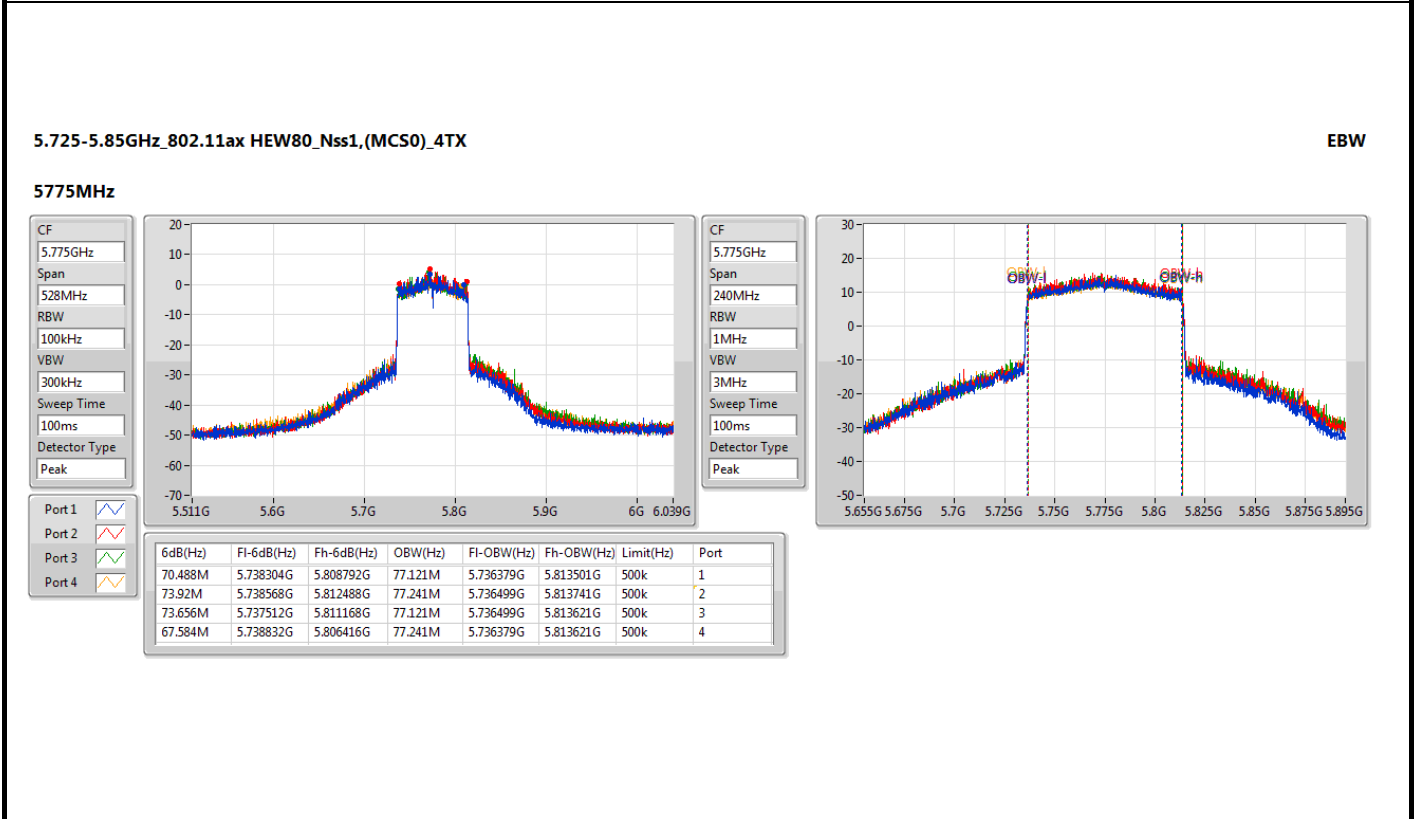
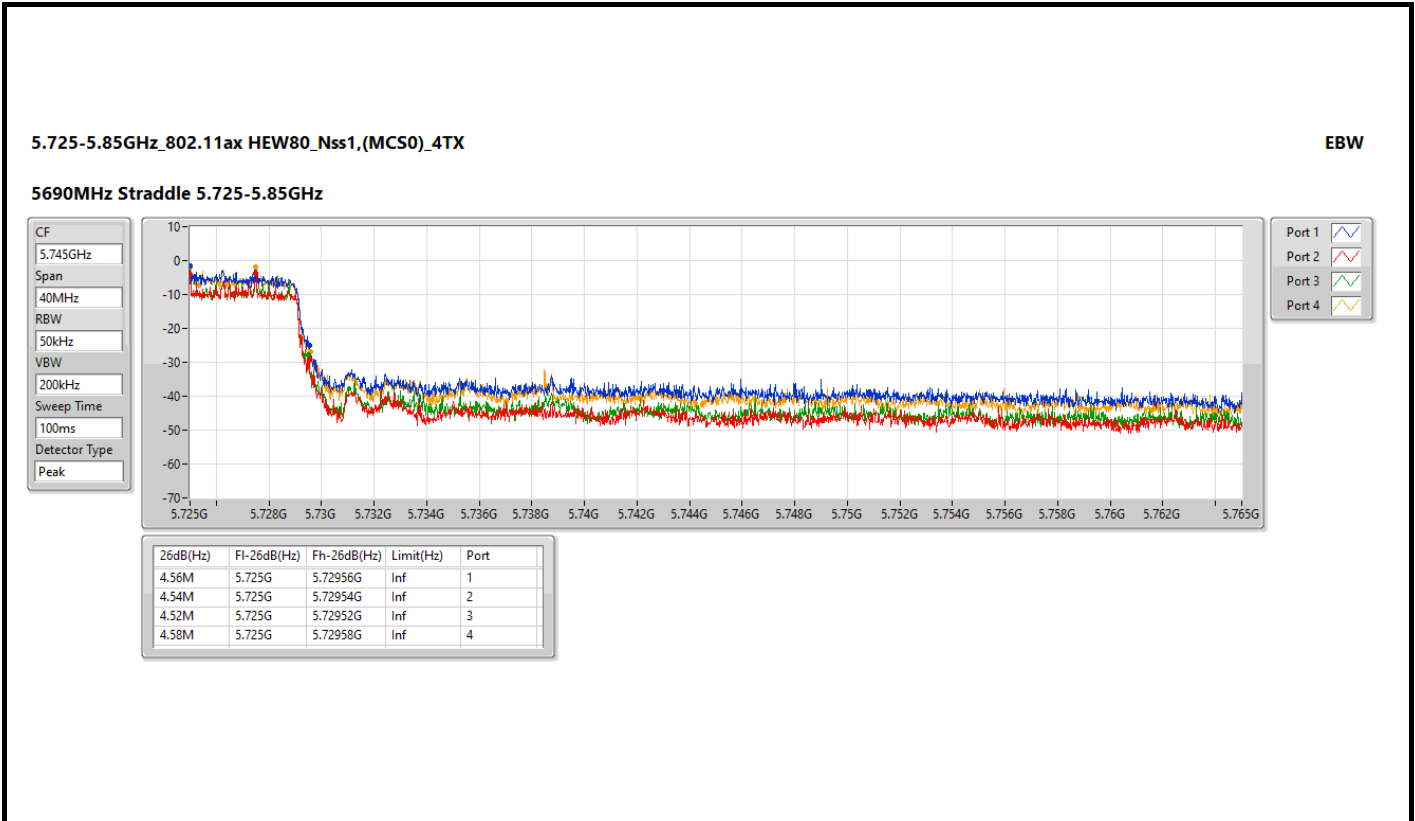


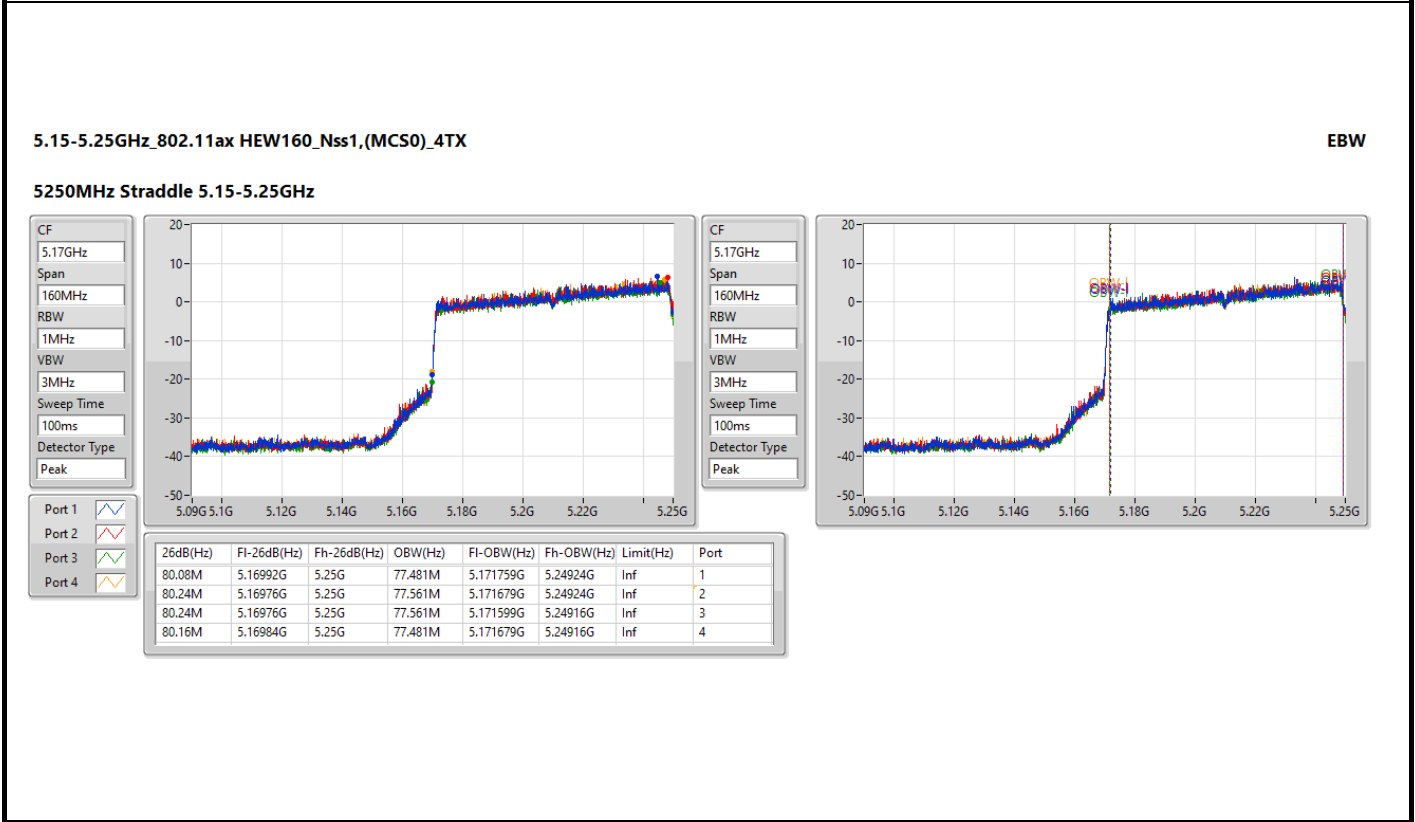
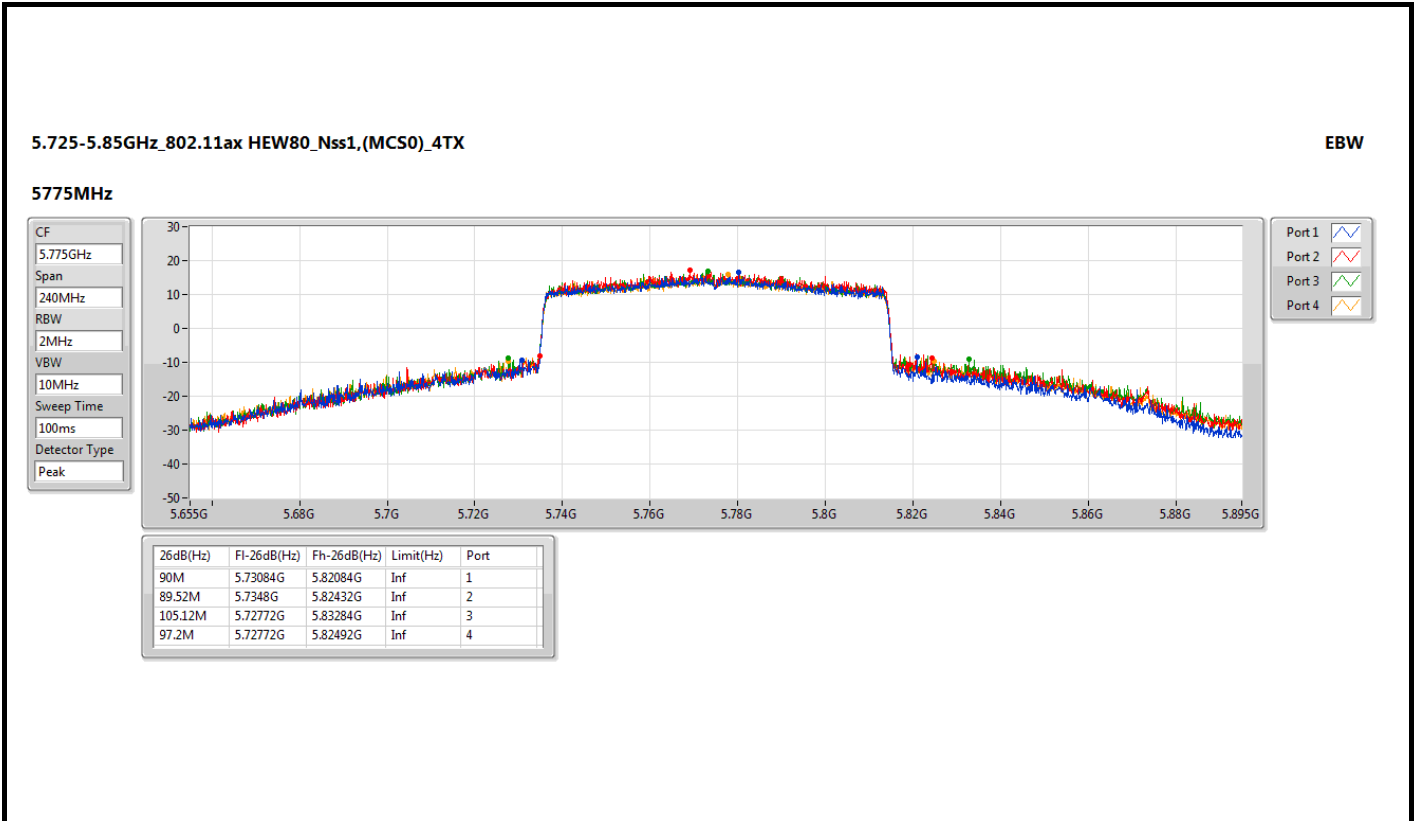
5.725-5.85GHz_802.11ax HEW80_Nss1,(MCS0)_4TX

EBW

5690MHz Straddle 5.725-5.85GHz





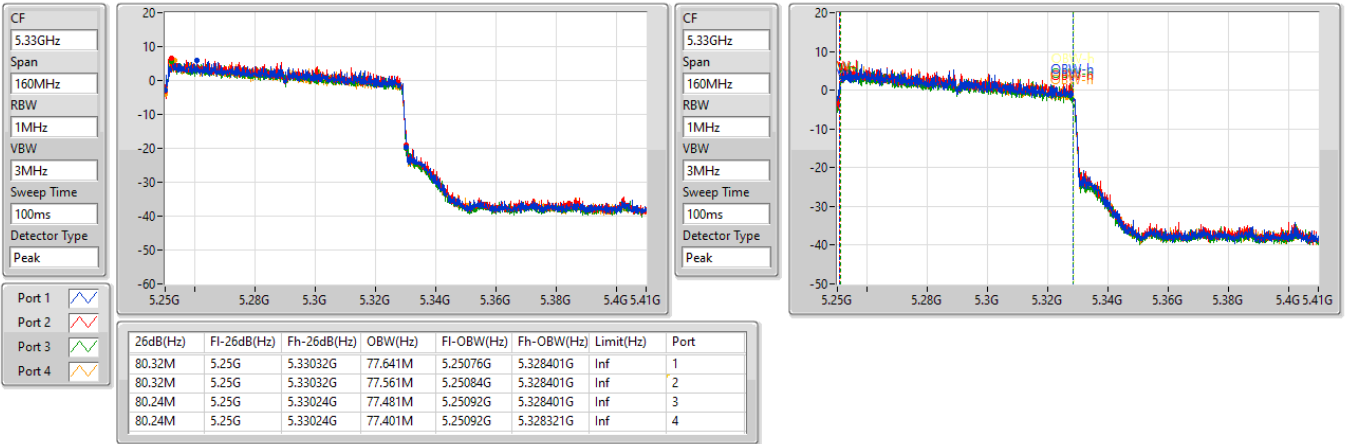




5.25-5.35GHz_802.11ax HEW160_Nss1,(MCS0)_4TX

EBW

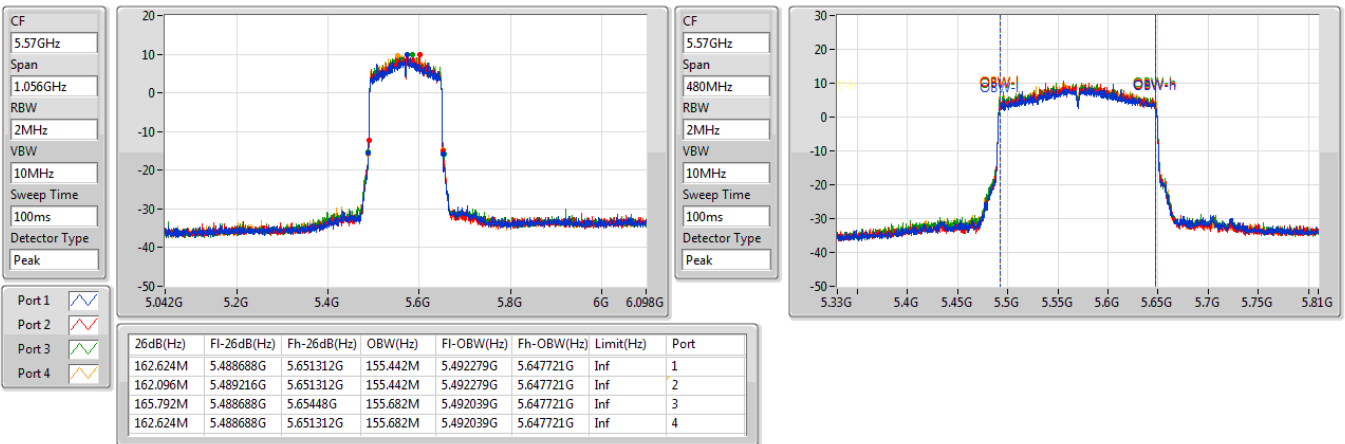
5250MHz Straddle 5.25-5.35GHz



5.47-5.725GHz_802.11ax HEW160_Nss1,(MCS0)_4TX

EBW

5570MHz





Beamforming mode

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	29.7M	19.1M	19M1D1D	19.866M	18.891M
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	50.028M	37.841M	37M8D1D	39.336M	37.541M
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	100.584M	77.841M	77M8D1D	90.288M	77.361M
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	80.32M	77.641M	77M6D1D	80.08M	77.401M
5.25-5.35GHz	-	-	-	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	30.228M	19.13M	19M1D1D	21.45M	18.951M
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	47.784M	37.781M	37M8D1D	39.204M	37.541M
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	99.792M	77.481M	77M5D1D	80.784M	77.121M
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	81.84M	77.641M	77M6D1D	80.24M	77.561M
5.47-5.725GHz	-	-	-	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	26.994M	19.13M	19M1D1D	15.735M	14.333M
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	56.496M	37.961M	38M0D1D	34.615M	33.513M
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	94.776M	77.481M	77M5D1D	74.7M	72.864M
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	166.32M	156.402M	156MD1D	162.624M	155.682M
5.725-5.85GHz	-	-	-	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	18.942M	19.1M	19M1D1D	4.46M	4.558M
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	38.016M	38.021M	38M0D1D	3.96M	4.078M
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	77.88M	77.601M	77M6D1D	3.88M	4.098M

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 / Minimum 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	24.156M	19.1M	28.446M	19.04M	26.136M	19.07M	29.7M	19.07M
5200MHz	Pass	Inf	28.116M	19.1M	29.106M	19.07M	26.268M	19.04M	26.862M	19.1M
5240MHz	Pass	Inf	19.866M	18.981M	23.496M	18.891M	19.866M	18.921M	19.998M	18.891M
5260MHz	Pass	Inf	21.516M	18.951M	21.846M	18.981M	21.45M	18.981M	21.978M	18.981M
5300MHz	Pass	Inf	28.776M	19.01M	30.228M	19.04M	28.116M	19.07M	29.634M	19.13M
5320MHz	Pass	Inf	27.39M	19.04M	23.694M	19.04M	27.192M	19.07M	26.73M	18.981M
5500MHz	Pass	Inf	23.496M	19.13M	25.41M	19.07M	25.476M	19.04M	26.994M	19.04M
5580MHz	Pass	Inf	21.516M	18.981M	21.582M	18.981M	21.582M	18.951M	21.846M	19.01M
5700MHz	Pass	Inf	22.836M	19.04M	24.486M	19.04M	24.024M	19.04M	24.222M	19.07M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	15.75M	14.363M	15.75M	14.333M	15.735M	14.363M	15.93M	14.483M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	4.46M	4.578M	4.56M	4.558M	4.5M	4.598M	4.54M	4.578M
5745MHz	Pass	500k	18.876M	19.01M	18.876M	19.07M	18.744M	19.07M	18.942M	19.07M
5785MHz	Pass	500k	18.744M	19.01M	18.612M	18.951M	18.876M	19.04M	18.744M	19.04M
5825MHz	Pass	500k	18.612M	19.04M	18.546M	19.04M	18.414M	19.04M	18.744M	19.1M
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	Inf	47.52M	37.841M	49.368M	37.841M	50.028M	37.781M	46.596M	37.841M
5230MHz	Pass	Inf	39.468M	37.661M	39.336M	37.661M	39.336M	37.601M	39.336M	37.541M
5270MHz	Pass	Inf	39.204M	37.661M	39.204M	37.541M	39.336M	37.541M	39.468M	37.541M
5310MHz	Pass	Inf	44.88M	37.781M	42.504M	37.721M	47.784M	37.661M	41.184M	37.661M
5510MHz	Pass	Inf	48.444M	37.841M	51.48M	37.781M	51.348M	37.841M	46.464M	37.841M
5590MHz	Pass	Inf	39.6M	37.721M	39.468M	37.781M	39.468M	37.781M	39.336M	37.601M
5670MHz	Pass	Inf	56.496M	37.901M	49.236M	37.961M	43.296M	37.901M	55.176M	37.901M
5710MHz Straddle 5.47-5.725GHz	Pass	Inf	34.685M	33.618M	34.685M	33.513M	34.615M	33.548M	34.685M	33.583M
5710MHz Straddle 5.725-5.85GHz	Pass	500k	4.02M	4.098M	3.98M	4.078M	3.96M	4.098M	4.12M	4.118M
5755MHz	Pass	500k	37.884M	37.901M	37.884M	37.901M	37.752M	37.961M	38.016M	37.901M
5795MHz	Pass	500k	37.884M	38.021M	37.752M	37.901M	38.016M	37.961M	38.016M	37.901M
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	Inf	95.304M	77.361M	90.288M	77.841M	100.584M	77.361M	100.056M	77.481M
5290MHz	Pass	Inf	80.784M	77.121M	99.792M	77.361M	96.888M	77.241M	96.624M	77.481M
5530MHz	Pass	Inf	80.784M	77.361M	80.52M	77.481M	94.776M	77.361M	80.52M	77.361M
5610MHz	Pass	Inf	80.256M	77.121M	80.52M	77.121M	80.52M	77.361M	80.256M	77.241M
5690MHz Straddle 5.47-5.725GHz	Pass	Inf	74.775M	72.864M	74.775M	72.864M	74.775M	72.864M	74.7M	72.864M
5690MHz Straddle 5.725-5.85GHz	Pass	500k	4.02M	4.098M	3.88M	4.138M	4M	4.138M	4M	4.138M



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)
5775MHz	Pass	500k	76.56M	77.361M	77.352M	77.481M	77.088M	77.601M	77.88M	77.481M
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	Inf	80.24M	77.641M	80.08M	77.561M	80.16M	77.481M	80.32M	77.401M
5250MHz Straddle 5.25-5.35GHz	Pass	Inf	80.24M	77.641M	81.84M	77.641M	81.12M	77.561M	80.32M	77.641M
5570MHz	Pass	Inf	163.68M	155.682M	162.624M	156.402M	163.152M	156.402M	166.32M	155.922M

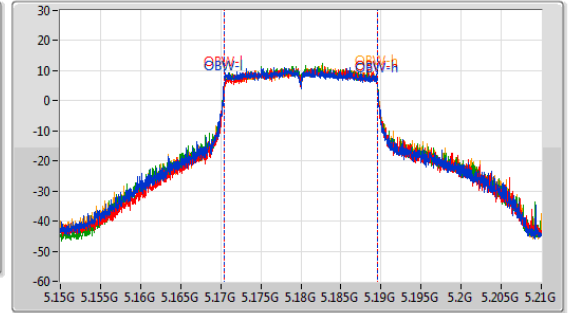
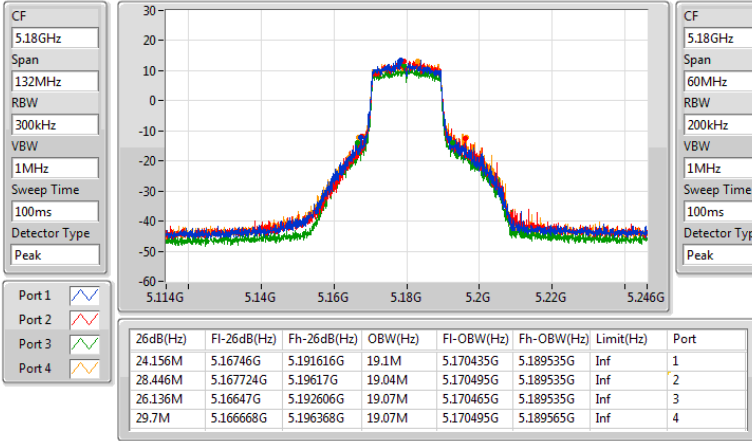
Port X-N dB = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band
 Port X-OBW = Port X 99% occupied bandwidth



5.15-5.25GHz_802.11ax HEW20-BF_Nss1,(MCS0)_4TX

EBW

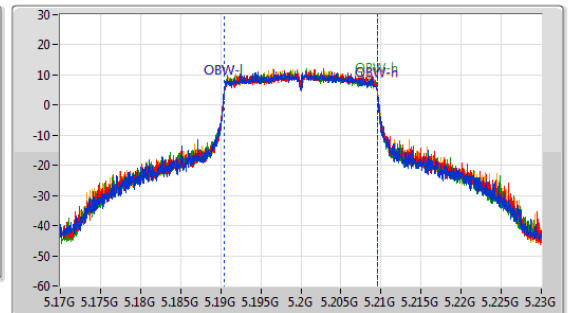
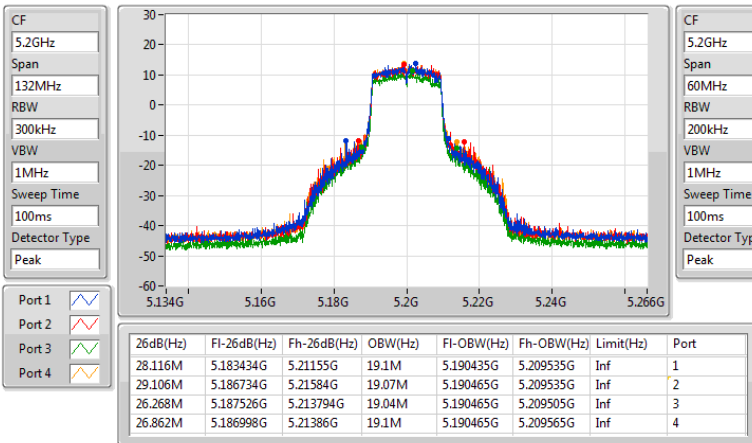
5180MHz



5.15-5.25GHz_802.11ax HEW20-BF_Nss1,(MCS0)_4TX

EBW

5200MHz



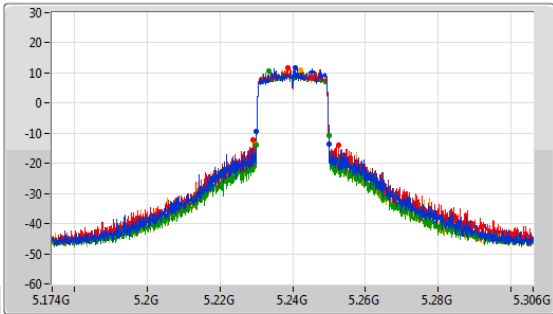


5.15-5.25GHz_802.11ax HEW20-BF_Nss1,(MCS0)_4TX

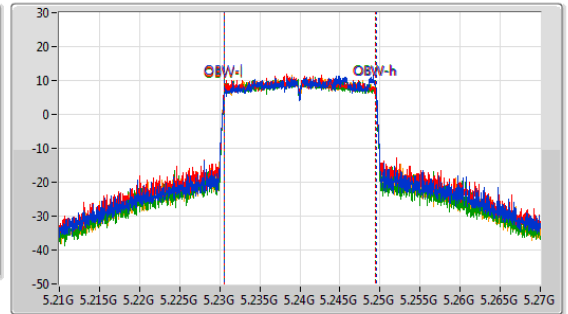
EBW

5240MHz

CF: 5.24GHz
 Span: 132MHz
 RBW: 200kHz
 VBW: 1MHz
 Sweep Time: 100ms
 Detector Type: Peak



CF: 5.24GHz
 Span: 60MHz
 RBW: 200kHz
 VBW: 1MHz
 Sweep Time: 100ms
 Detector Type: Peak



Port 1: [Waveform icon]
 Port 2: [Waveform icon]
 Port 3: [Waveform icon]
 Port 4: [Waveform icon]

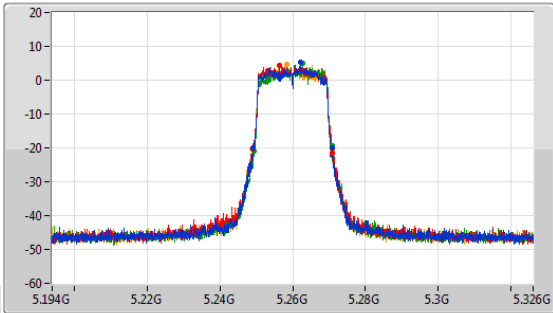
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
19.866M	5.2301G	5.249966G	18.981M	5.230555G	5.249535G	Inf	1
23.496M	5.229242G	5.252738G	18.891M	5.230555G	5.249445G	Inf	2
19.866M	5.230034G	5.2499G	18.921M	5.230555G	5.249475G	Inf	3
19.998M	5.230034G	5.250032G	18.891M	5.230555G	5.249445G	Inf	4

5.25-5.35GHz_802.11ax HEW20-BF_Nss1,(MCS0)_4TX

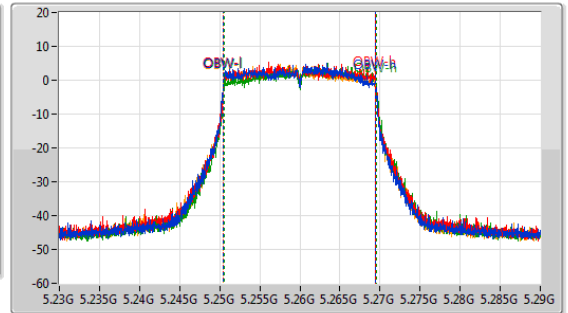
EBW

5260MHz

CF: 5.26GHz
 Span: 132MHz
 RBW: 200kHz
 VBW: 1MHz
 Sweep Time: 100ms
 Detector Type: Peak



CF: 5.26GHz
 Span: 60MHz
 RBW: 200kHz
 VBW: 1MHz
 Sweep Time: 100ms
 Detector Type: Peak



Port 1: [Waveform icon]
 Port 2: [Waveform icon]
 Port 3: [Waveform icon]
 Port 4: [Waveform icon]

26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
21.516M	5.249242G	5.270758G	18.951M	5.250495G	5.269445G	Inf	1
21.846M	5.249176G	5.271022G	18.981M	5.250495G	5.269475G	Inf	2
21.45M	5.249506G	5.270956G	18.981M	5.250555G	5.269535G	Inf	3
21.978M	5.248912G	5.27089G	18.981M	5.250495G	5.269475G	Inf	4

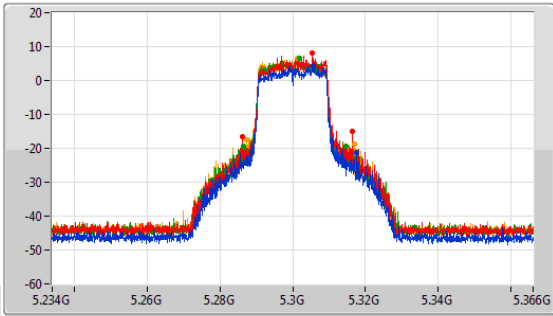


5.25-5.35GHz_802.11ax_HEW20-BF_Nss1,(MCS0)_4TX

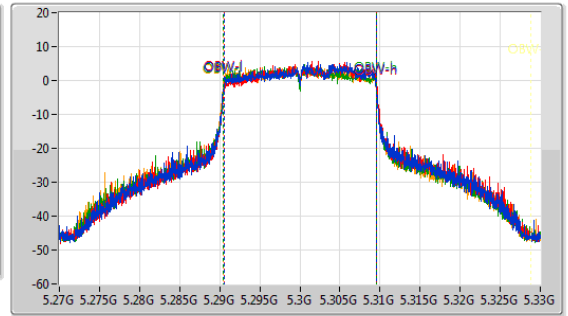
EBW

5300MHz

CF: 5.3GHz
 Span: 132MHz
 RBW: 300kHz
 VBW: 1MHz
 Sweep Time: 100ms
 Detector Type: Peak



CF: 5.3GHz
 Span: 60MHz
 RBW: 200kHz
 VBW: 1MHz
 Sweep Time: 100ms
 Detector Type: Peak



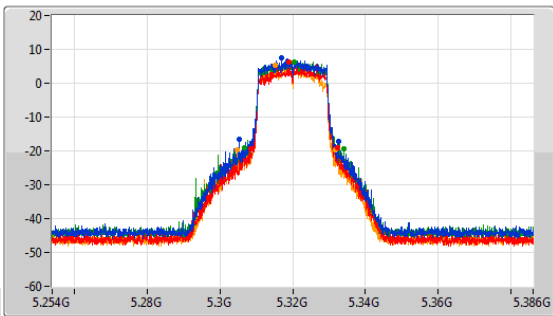
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
28.776M	5.288714G	5.31749G	19.01M	5.290525G	5.309535G	Inf	1
30.228M	5.28614G	5.316368G	19.04M	5.290555G	5.309595G	Inf	2
28.116M	5.28647G	5.314586G	19.07M	5.290465G	5.309535G	Inf	3
29.634M	5.28746G	5.317094G	19.13M	5.290435G	5.309565G	Inf	4

5.25-5.35GHz_802.11ax_HEW20-BF_Nss1,(MCS0)_4TX

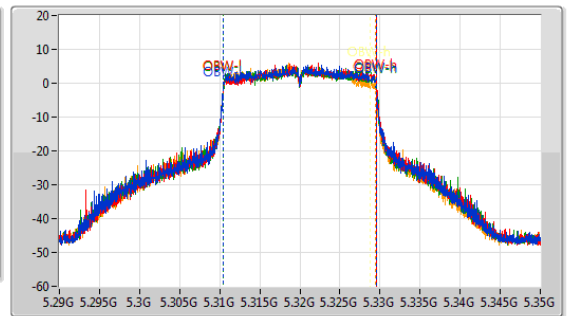
EBW

5320MHz

CF: 5.32GHz
 Span: 132MHz
 RBW: 300kHz
 VBW: 1MHz
 Sweep Time: 100ms
 Detector Type: Peak



CF: 5.32GHz
 Span: 60MHz
 RBW: 200kHz
 VBW: 1MHz
 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
27.39M	5.305282G	5.332672G	19.04M	5.310465G	5.329505G	Inf	1
23.694M	5.308648G	5.332342G	19.04M	5.310495G	5.329535G	Inf	2
27.192M	5.3068G	5.333992G	19.07M	5.310465G	5.329535G	Inf	3
26.73M	5.304886G	5.331616G	18.981M	5.310465G	5.329445G	Inf	4

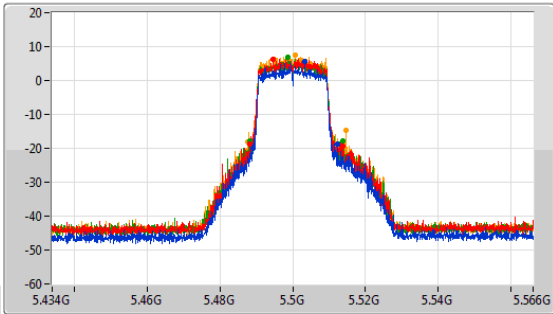


5.47-5.725GHz_802.11ax HEW20-BF_Nss1,(MCS0)_4TX

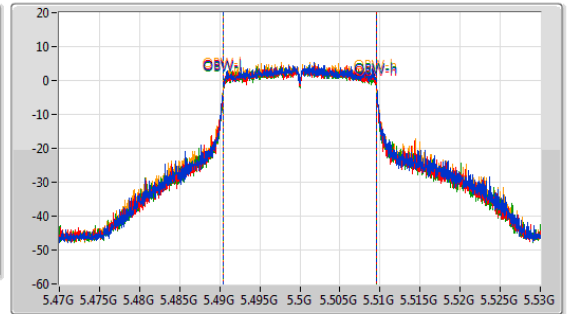
EBW

5500MHz

CF: 5.5GHz
 Span: 132MHz
 RBW: 300kHz
 VBW: 1MHz
 Sweep Time: 100ms
 Detector Type: Peak



CF: 5.5GHz
 Span: 60MHz
 RBW: 200kHz
 VBW: 1MHz
 Sweep Time: 100ms
 Detector Type: Peak



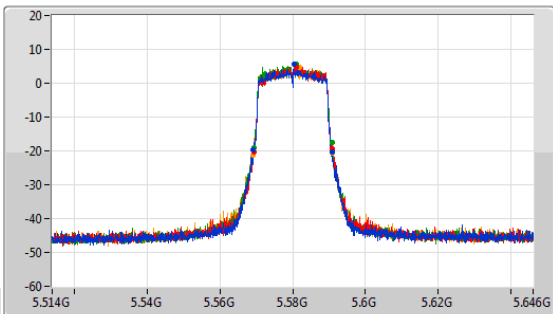
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
23.496M	5.488978G	5.512474G	19.13M	5.490465G	5.509595G	Inf	1
25.41M	5.488252G	5.513662G	19.07M	5.490495G	5.509565G	Inf	2
25.476M	5.488384G	5.51386G	19.04M	5.490495G	5.509535G	Inf	3
26.994M	5.487592G	5.514586G	19.04M	5.490495G	5.509535G	Inf	4

5.47-5.725GHz_802.11ax HEW20-BF_Nss1,(MCS0)_4TX

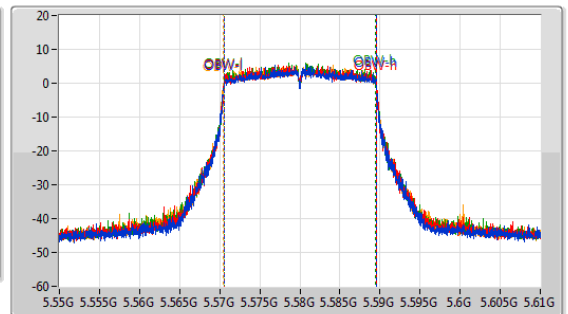
EBW

5580MHz

CF: 5.58GHz
 Span: 132MHz
 RBW: 200kHz
 VBW: 1MHz
 Sweep Time: 100ms
 Detector Type: Peak



CF: 5.58GHz
 Span: 60MHz
 RBW: 200kHz
 VBW: 1MHz
 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
21.516M	5.569242G	5.590758G	18.981M	5.570525G	5.589505G	Inf	1
21.582M	5.569308G	5.59089G	18.981M	5.570525G	5.589505G	Inf	2
21.582M	5.569308G	5.59089G	18.951M	5.570525G	5.589475G	Inf	3
21.846M	5.569176G	5.591022G	19.01M	5.570495G	5.589505G	Inf	4

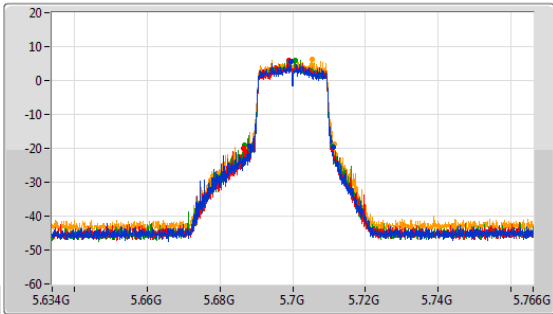


5.47-5.725GHz_802.11ax HEW20-BF_Nss1,(MCS0)_4TX

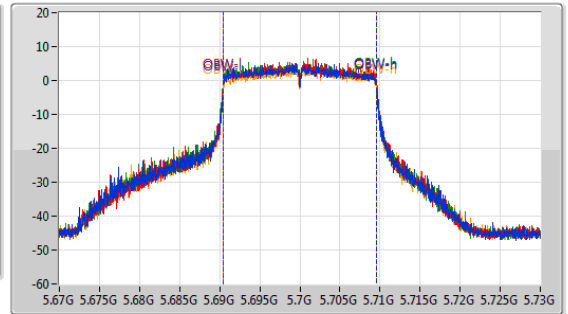
EBW

5700MHz

CF: 5.7GHz
 Span: 132MHz
 RBW: 300kHz
 VBW: 1MHz
 Sweep Time: 100ms
 Detector Type: Peak



CF: 5.7GHz
 Span: 60MHz
 RBW: 200kHz
 VBW: 1MHz
 Sweep Time: 100ms
 Detector Type: Peak



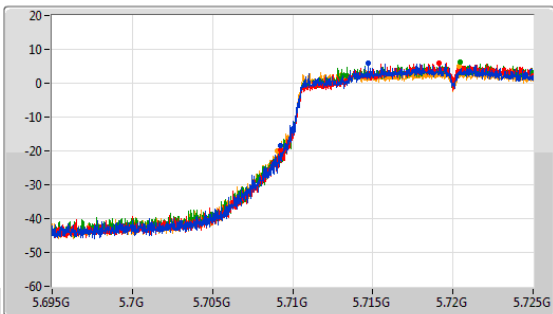
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
22.836M	5.688318G	5.711154G	19.04M	5.690465G	5.709505G	Inf	1
24.486M	5.686536G	5.711022G	19.04M	5.690495G	5.709535G	Inf	2
24.024M	5.686734G	5.710758G	19.04M	5.690465G	5.709505G	Inf	3
24.222M	5.687196G	5.711418G	19.07M	5.690465G	5.709535G	Inf	4

5.47-5.725GHz_802.11ax HEW20-BF_Nss1,(MCS0)_4TX

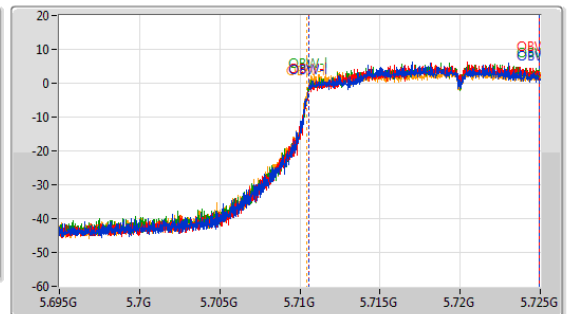
EBW

5720MHz Straddle 5.47-5.725GHz

CF: 5.71GHz
 Span: 30MHz
 RBW: 200kHz
 VBW: 1MHz
 Sweep Time: 100ms
 Detector Type: Peak



CF: 5.71GHz
 Span: 30MHz
 RBW: 200kHz
 VBW: 1MHz
 Sweep Time: 100ms
 Detector Type: Peak



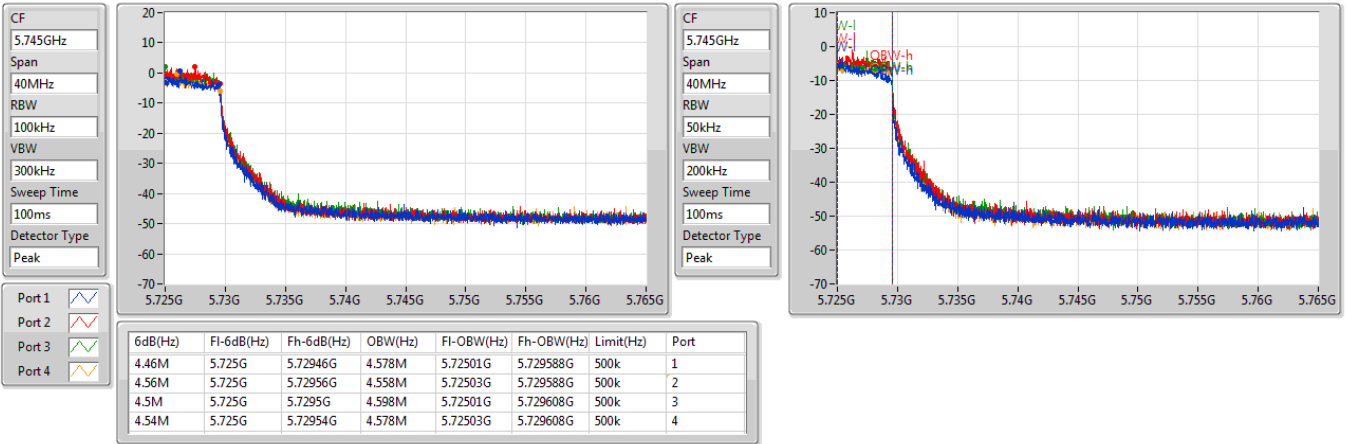
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
15.75M	5.70925G	5.725G	14.363M	5.71054G	5.724903G	Inf	1
15.75M	5.70925G	5.725G	14.333M	5.710585G	5.724918G	Inf	2
15.735M	5.709265G	5.725G	14.363M	5.710555G	5.724918G	Inf	3
15.93M	5.70907G	5.725G	14.483M	5.71045G	5.724933G	Inf	4



5.725-5.85GHz_802.11ax HEW20-BF_Nss1,(MCS0)_4TX

EBW

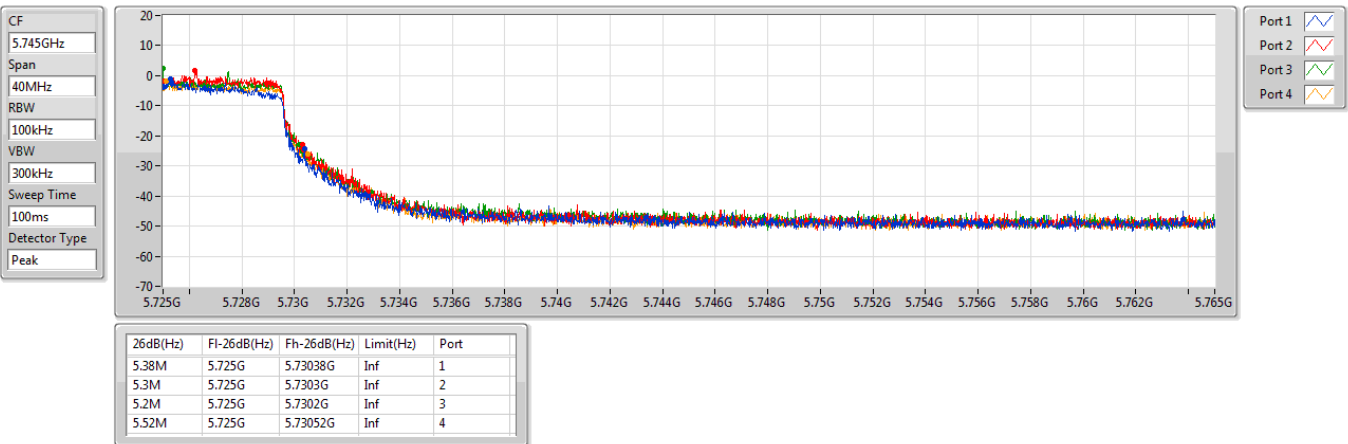
5720MHz Straddle 5.725-5.85GHz



5.725-5.85GHz_802.11ax HEW20-BF_Nss1,(MCS0)_4TX

EBW

5720MHz Straddle 5.725-5.85GHz



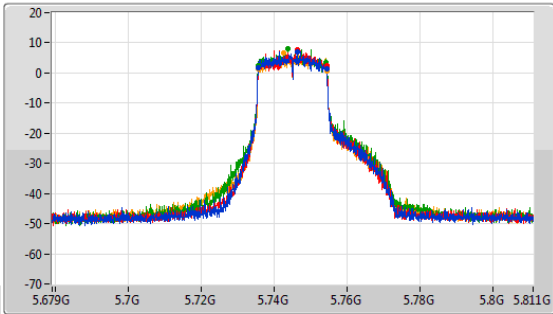


5.725-5.85GHz_802.11ax HEW20-BF_Nss1,(MCS0)_4TX

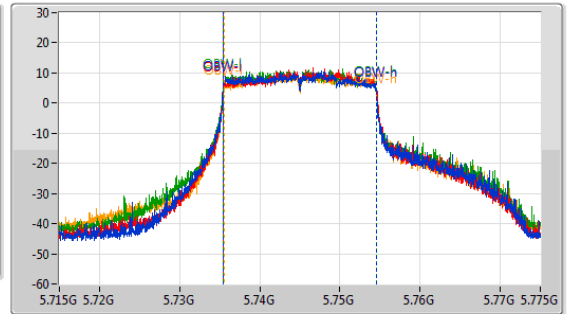
EBW

5745MHz

CF: 5.745GHz
 Span: 132MHz
 RBW: 100kHz
 VBW: 300kHz
 Sweep Time: 100ms
 Detector Type: Peak



CF: 5.745GHz
 Span: 60MHz
 RBW: 200kHz
 VBW: 1MHz
 Sweep Time: 100ms
 Detector Type: Peak



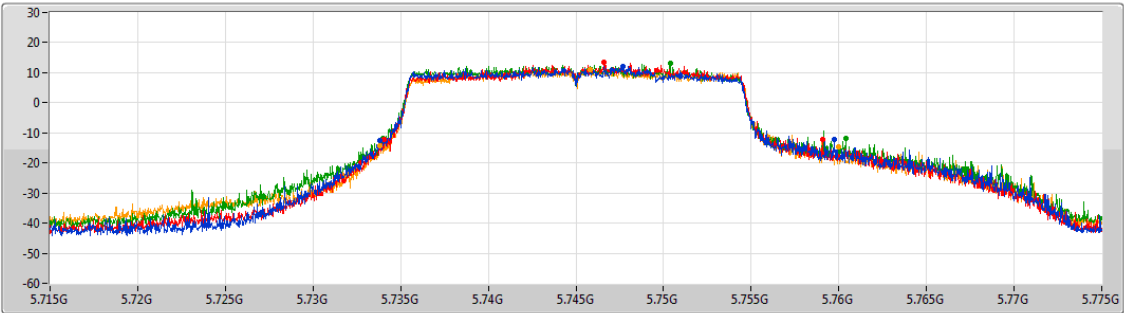
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
18.876M	5.735496G	5.754372G	19.01M	5.735495G	5.754505G	500k	1
18.876M	5.735562G	5.754438G	19.07M	5.735495G	5.754565G	500k	2
18.744M	5.735496G	5.75424G	19.07M	5.735435G	5.754505G	500k	3
18.942M	5.735562G	5.754504G	19.07M	5.735525G	5.754595G	500k	4

5.725-5.85GHz_802.11ax HEW20-BF_Nss1,(MCS0)_4TX

EBW

5745MHz

CF: 5.745GHz
 Span: 60MHz
 RBW: 300kHz
 VBW: 1MHz
 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
25.95M	5.73381G	5.75976G	Inf	1
25.02M	5.73405G	5.75907G	Inf	2
26.4M	5.73399G	5.76039G	Inf	3
26.16M	5.73381G	5.75997G	Inf	4

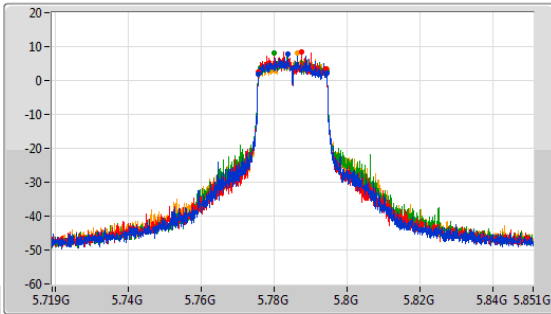


5.725-5.85GHz_802.11ax HEW20-BF_Nss1,(MCS0)_4TX

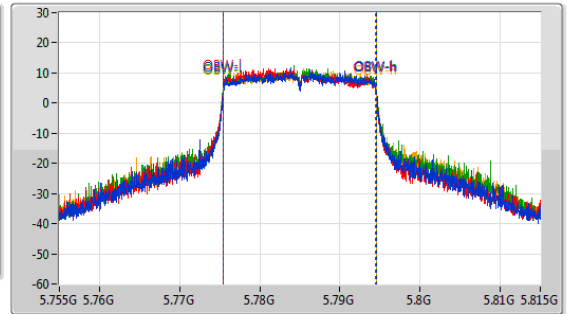
EBW

5785MHz

CF: 5.785GHz
 Span: 132MHz
 RBW: 100kHz
 VBW: 300kHz
 Sweep Time: 100ms
 Detector Type: Peak



CF: 5.785GHz
 Span: 60MHz
 RBW: 200kHz
 VBW: 1MHz
 Sweep Time: 100ms
 Detector Type: Peak



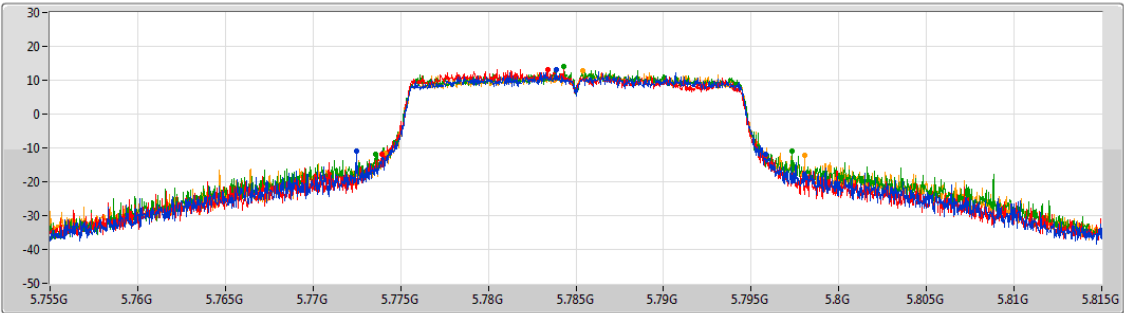
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
18.744M	5.775562G	5.794306G	19.01M	5.775495G	5.794505G	500k	1
18.612M	5.775628G	5.79424G	18.951M	5.775495G	5.794445G	500k	2
18.876M	5.775496G	5.794372G	19.04M	5.775465G	5.794505G	500k	3
18.744M	5.775628G	5.794372G	19.04M	5.775495G	5.794535G	500k	4

5.725-5.85GHz_802.11ax HEW20-BF_Nss1,(MCS0)_4TX

EBW

5785MHz

CF: 5.785GHz
 Span: 60MHz
 RBW: 300kHz
 VBW: 1MHz
 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
23.34M	5.77249G	5.79583G	Inf	1
21.9M	5.77393G	5.79583G	Inf	2
23.76M	5.77357G	5.79733G	Inf	3
23.91M	5.77414G	5.79805G	Inf	4