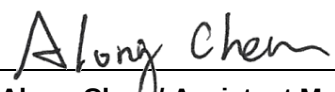


FCC Test Report

FCC ID : HDC-17600079
Equipment : WiFi 7 10G Mesh AP
Model No. : SDG-8733A
Brand Name : Adtran
Applicant : Adtran
Address : 901 Explorer Boulevard, Huntsville, Alabama,
United States, 35806-2807
Standard : 47 CFR FCC Part 15.407
Received Date : Jul. 12, 2024
Tested Date : Sep. 20 ~ Oct. 28, 2024

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:


Along Chen / Assistant Manager

Approved by:

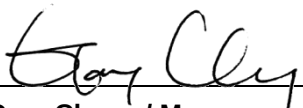

Gary Chang / Manager

Table of Contents

1	GENERAL DESCRIPTION	5
1.1	Information.....	5
1.2	Local Support Equipment List	10
1.3	Test Setup Chart	10
1.4	The Equipment List	11
1.5	Test Standards	12
1.6	Reference Guidance	12
1.7	Deviation from Test Standard and Measurement Procedure.....	12
1.8	Measurement Uncertainty	13
2	TEST CONFIGURATION.....	14
2.1	Testing Facility	14
2.2	The Worst Test Modes and Channel Details	15
3	TRANSMITTER TEST RESULTS	17
3.1	Emission Bandwidth	17
3.2	Conducted Output Power	18
3.3	Power Spectral Density	20
3.4	Unwanted Emissions.....	22
3.5	Frequency Stability.....	25
3.6	AC Power Line Conducted Emissions	26
4	TEST LABORATORY INFORMATION	27
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
FR471203AN	Rev. 01	Initial issue	Feb. 18, 2025

Summary of Test Results

FCC Rules	Test Items	Measured	Result
15.207	AC Power Line Conducted Emissions	[dBuV]: 0.428MHz 39.34 (Margin -7.95dB) - AV	Pass
15.407(b) 15.209	Unwanted Emissions	[dBuV/m at 3m]: 5725.00MHz 67.81 (Margin -0.39dB) - PK	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: 26.19 5250~5350MHz: 23.75 5470~5725MHz: 23.71 5725~5850MHz: 27.42 Beamforming mode 5150~5250MHz: 25.89 5250~5350MHz: 23.57 5470~5725MHz: 23.67 5725~5850MHz: 26.76	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 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]	3	6-54 Mbps
5150-5250 5250-5350 5470-5725 5725-5850	n (HT20) ac (VHT20) ax (HE20) be (EHT20)	5180-5240 5260-5320 5500-5720 5745-5825	36-48 [4] 52-64 [4] 100-144 [12] 149-165 [5]	3	MCS 0-23 MCS 0-9 MCS 0-11 MCS 0-13
5150-5250 5250-5350 5470-5725 5725-5850	n (HT40) ac (VHT40) ax (HE40) be (EHT40)	5190-5230 5270-5310 5510-5710 5755-5795	38-46 [2] 54-62 [2] 102-142 [6] 151-159 [2]	3	MCS 0-23 MCS 0-9 MCS 0-11 MCS 0-13
5150-5250 5250-5350 5470-5725 5725-5850	ac (VHT80) ax (HE80) be (EHT80)	5210 5290 5530~5690 5775	42 [1] 58 [1] 106-138 [3] 155 [1]	3	MCS 0-9 MCS 0-11 MCS 0-13
5150-5250 5250-5350 5470-5725	ac (VHT160) ax (HE160) be (EHT160)	5250 5570	50 [1] 114 [1]	3	MCS 0-9 MCS 0-11 MCS 0-13

Note 1: BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM and 4096QAM modulation.
Note 2: BAW filter has two sources.

1.1.2 Antenna Details

Model	Type	Connector	Operating Frequencies (MHz) / Antenna Gain (dBi)				
			2400~2483.5	5150~5250	5250~5350	5470~5725	5725~5850
DB1	Dipole	UFL	3.032	4.184	4.184	4.317	4.428
DB2	Dipole	UFL	3.005	3.183	3.182	3.722	3.722
5G3	Dipole	UFL	---	4.413	4.413	4.418	4.418

1.1.3 Configuration of Equipment under Test (EUT)

Power Supply Type	15Vdc from adapter	
TPC	☒ Support	☐ Not support
Beamforming	☒ Support	☐ Not support
RU Configuration	☒ Full RU	☐ Partial RU
Channel Puncturing	☐ Support	☒ Not support

1.1.4 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	AC adapter	Brand: PHIHONG Model: AA45A-59FKD I/P: 100-240Vac, 50/60Hz, 1.2A O/P: 15V= 3.0A, 45.0W Power Line: USB 1.8m non-shielded without core
3	RJ45	2m non-shielded without core

1.1.5 Channel List

802.11a / n HT20 / ac VHT20 / ax HE20 / be EHT20		802.11n HT40 / ac VHT40 / ax HE40 / be EHT40	
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	151	5755
108	5540	159	5795
112	5560	802.11ac VHT80 / ax HE80 / be EHT80	
116	5580	42	5210
120	5600	58	5290
124	5620	106	5530
128	5640	122	5610
132	5660	155	5775
136	5680	802.11ac VHT160 / ax HE160 / be EHT160	
140	5700	50	5250
149	5745	114	5570
153	5765	---	---
157	5785	---	---
161	5805	---	---
165	5825	---	---

1.1.6 Test Tool and Duty Cycle

Test Tool	Non-beamforming: QATool, version: 0.0.2.99 Beamforming: Putty, version: 0.6				
Duty Cycle and Duty Factor	Mode	Non-beamforming		Beamforming	
		Duty cycle (%)	Duty factor (dB)	Duty cycle (%)	Duty factor (dB)
	11a	98.40%	0.07	---	---
	be EHT20	99.00%	0.04	98.92%	0.05
	be EHT40	98.40%	0.07	98.10%	0.08
	be EHT80	96.10%	0.17	95.45%	0.20
	be EHT160	89.30%	0.49	91.40%	0.39

1.1.7 Power Index of Test Tool

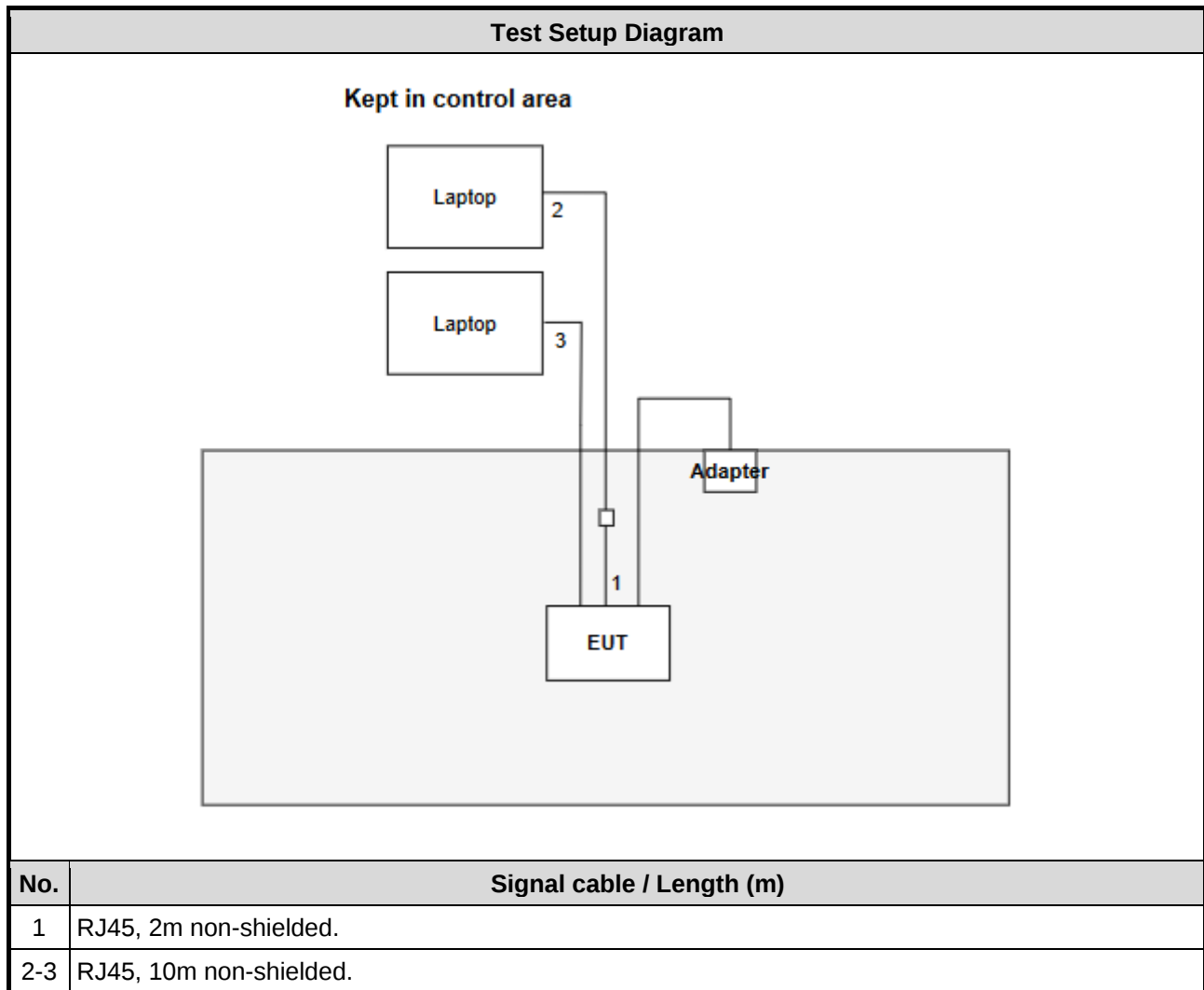
Modulation Mode	Test Frequency (MHz)	Power Index	
		Non-beamforming	Beamforming
11a	5180	15.5	---
11a	5200	18.5	---
11a	5240	18	---
11a	5260	15	---
11a	5300	15	---
11a	5320	15	---
11a	5500	15.5	---
11a	5580	15	---
11a	5700	15	---
11a	5720	15	---
11a	5745	20	---
11a	5785	20	---
11a	5825	19.5	---
be EHT20	5180	17	34
be EHT20	5200	18.5	37
be EHT20	5240	19	38
be EHT20	5260	16.5	33
be EHT20	5300	16.5	33
be EHT20	5320	16.5	33
be EHT20	5500	16.5	33
be EHT20	5580	16.5	33
be EHT20	5700	16.5	32

be EHT20	5720	16.5	33
be EHT20	5745	20.5	41
be EHT20	5785	20	40
be EHT20	5825	19.5	39
be EHT40	5190	16	32
be EHT40	5230	17	34
be EHT40	5270	17	34
be EHT40	5310	16	32
be EHT40	5510	15.5	28
be EHT40	5590	17	34
be EHT40	5670	17.5	34
be EHT40	5710	17.5	35
be EHT40	5755	19	38
be EHT40	5795	20	40
be EHT80	5210	14.5	29
be EHT80	5290	14	28
be EHT80	5530	15	30
be EHT80	5610	17	34
be EHT80	5690	17.5	35
be EHT80	5775	17	34
be EHT160	5250	13.5	27
be EHT160	5570	15.5	30

1.2 Local Support Equipment List

Support Equipment List					
No.	Equipment	Brand	Model	FCC ID	Remarks
1	Laptop	DELL	Latitude 3440	DoC	---
2	Laptop	DELL	Vostro 5410	DoC	---

1.3 Test Setup Chart



1.4 The Equipment List

Test Item	Conducted Emission				
Test Site	Conduction room 1 / (CO01-WS)				
Tested Date	Oct. 24, 2024				
Instrument	Brand	Model No.	Serial No.	Calibration Date	Calibration Until
Receiver	R&S	ESR3	101658	Feb. 23, 2024	Feb. 22, 2025
LISN	R&S	ENV216	101579	May 09, 2024	May 08, 2025
LISN (Support Unit)	SCHWARZBECK	Schwarzbeck 8127	8127667	Jan. 10, 2024	Jan. 09, 2025
RF Cable-CON	Woken	CFD200-NL	CFD200-NL-001	Oct. 07, 2024	Oct. 08, 2025
50 ohm terminal	NA	50	01	Jun. 19, 2024	Jun. 18, 2025
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	Sep. 20 ~ Sep. 27, 2024				
Instrument	Brand	Model No.	Serial No.	Calibration Date	Calibration Until
Receiver	R&S	ESR3	101657	Mar. 05, 2024	Mar. 04, 2025
Spectrum Analyzer	R&S	FSV40	101498	Nov. 23, 2023	Nov. 22, 2024
Loop Antenna	R&S	HFH2-Z2	100330	Oct. 31, 2023	Oct. 30, 2024
Bilog Antenna	SCHWARZBECK	VULB9168	VULB9168-522	Aug. 09, 2024	Aug. 08, 2025
Horn Antenna 1G-18G	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1096	Nov. 27, 2023	Nov. 26, 2024
Horn Antenna 18G-40G	SCHWARZBECK	BBHA 9170	BBHA 9170517	Oct. 30, 2023	Oct. 29, 2024
Preamplifier	EMC	EMC02325	980225	Jun. 17, 2024	Jun. 16, 2025
Preamplifier	EMC	EMC118A45SE	980898	Jul. 05, 2024	Jul. 04, 2025
Preamplifier	EMC	EMC184045SE	980903	Jul. 30, 2024	Jul. 29, 2025
Loop Antenna Cable	KOAX KABEL	101354-BW	101354-BW	Oct. 03, 2023	Oct. 02, 2024
LF cable 3M	Woken	CFD400NL-LW	CFD400NL-001	Oct. 03, 2023	Oct. 02, 2024
LF cable 11M	EMC	EMCCFD400-NW-N W-11000	200801	Oct. 03, 2023	Oct. 02, 2024
LF cable 1M	EMC	EMCCFD400-NM-N M-1000	160502	Oct. 03, 2023	Oct. 02, 2024
RF Cable	EMC	EMC104-35M-35M-8000	210920	Oct. 03, 2023	Oct. 02, 2024
RF Cable	EMC	EMC104-35M-35M-3000	210922	Oct. 03, 2023	Oct. 02, 2024
Attenuator	Pasternack	PE7005-10	10-1	Oct. 05, 2023	Oct. 04, 2024
HIGHPASS FILTER 3.1-18G	WHK	WHK3.1/18G-10SS	39	Oct. 05, 2023	Oct. 04, 2024
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	Oct. 01 ~ Oct. 28, 2024				
Instrument	Brand	Model No.	Serial No.	Calibration Date	Calibration Until
Spectrum Analyzer	R&S	FSV40	101910	Apr. 18, 2024	Apr. 17, 2025
Power Meter	Anritsu	ML2495A	1241002	Nov. 21, 2023	Nov. 20, 2024
Power Sensor	Anritsu	MA2411B	1207366	Nov. 21, 2023	Nov. 20, 2024
Attenuator	Pasternack	PE7005-10	10-3	Sep. 20, 2024	Sep. 19, 2025
TEMP&HUMIDITY CHAMBER	GIANT FORCE	GCT-225-40-SP-SD	MAF1212-002	Jul. 01, 2024	Jun. 30, 2025
AC POWER SOURCE	APC	AFC-500W	F312060012	Dec. 16, 2023	Dec. 15, 2024
Measurement Software	Sporton	SENSE-15407_NII	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	$\pm 1 \times 10^{-9}$
Power density	± 0.583 dB
Conducted emission	± 2.715 dB
AC conducted emission	± 2.92 dB
Unwanted Emission ≤ 1 GHz	± 3.41 dB
Unwanted Emission > 1 GHz	± 4.59 dB
Time	$\pm 0.1\%$
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	11a	5240	6 Mbps	---
Unwanted Emissions ≤1GHz	11a	5240	6 Mbps	---
Unwanted Emissions >1GHz Conducted Output Power Emission Bandwidth Power Spectral Density	11a	5180 / 5200 / 5240 / 5260 / 5300 5320 / 5500 / 5580 / 5700 / 5720	6 Mbps	---
	be EHT20	5180 / 5200 / 5240 / 5260 / 5300 5320 / 5500 / 5580 / 5700 / 5720	MCS 0	
	be EHT40	5190 / 5230 / 5270 / 5310 / 5510 5590 / 5670 / 5710	MCS 0	
	be EHT80	5210 / 5290 / 5530 / 5610 / 5690	MCS 0	
	be EHT160	5250 / 5570	MCS 0	
Frequency Stability	Un-modulation	5300	---	---
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	---
Unwanted Emissions ≤1GHz	11a	5745	6 Mbps	---
Unwanted Emissions >1GHz Conducted Output Power Emission Bandwidth 6dB bandwidth Power Spectral Density	11a	5745 / 5785 / 5825	6 Mbps	---
	be EHT20	5745 / 5785 / 5825	MCS 0	
	be EHT40	5755 / 5795	MCS 0	
	be EHT80	5775	MCS 0	
Frequency Stability	Un-modulation	5785	---	---
NOTE:				
1. Two adapters (LUCENT TRANS & PHIHONG) had been covered during the pretest and found that PHIHONG adapter was the worst case for radiated emission test and LUCENT TRANS adapter was the worst case for conducted emission test.				

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	be EHT20	5240	MCS 0	---
Unwanted Emissions ≤1GHz	be EHT20	5240	MCS 0	---
Unwanted Emissions >1GHz Conducted Output Power Emission Bandwidth Power Spectral Density	be EHT20	5180 / 5200 / 5240 / 5260 / 5300 5320 / 5500 / 5580 / 5700 / 5720	MCS 0	---
	be EHT40	5190 / 5230/ 5270 / 5310 / 5510 5590 / 5670 / 5710	MCS 0	
	be EHT80	5210 / 5290 / 5530 / 5610 / 5690	MCS 0	
	be EHT160	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	be EHT20	5745	MCS 0	---
Unwanted Emissions ≤1GHz	be EHT20	5745	MCS 0	---
Unwanted Emissions >1GHz Conducted Output Power Emission Bandwidth 6dB bandwidth Power Spectral Density	be EHT20	5745 / 5785 / 5825	MCS 0	---
	be EHT40	5755 / 5795	MCS 0	
	be EHT80	5775	MCS 0	
NOTE:				
1. Two adapters (LUCENT TRANS & PHIHONG) had been covered during the pretest and found that PHIHONG adapter was the worst case for radiated emission test and LUCENT TRANS adapter was the worst case for conducted emission test.				

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.

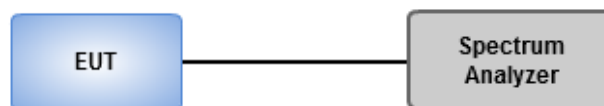
Occupied Bandwidth

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	25-26°C / 66-68%	Tested By	Akun Chung
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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
☐	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)
☒	Indoor access point	Conducted Power: 1 W
☐	Fixed point-to-point access points	Conducted Power: 1 W
☐	Client devices	Conducted Power: 250 mW

Frequency Band (MHz)		Limit
☒	5250 ~ 5350	Conducted Power: 250mW or 11dBm+10 log B
☒	5470 ~ 5725	Conducted Power: 250mW or 11dBm+10 log B
☒	5725 ~ 5850	Conducted Power: 1 W
Note: "B" is the 26dB emission bandwidth in MHz.		

3.2.2 Test Procedures

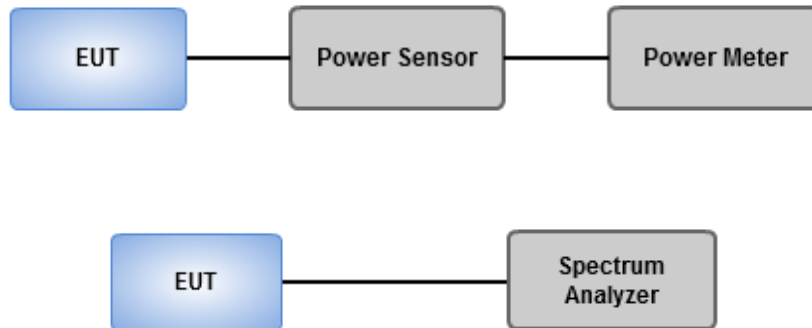
Method PM-G (Measurement using a gated RF average power meter)

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	25-26°C / 66-68%	Tested By	Akun Chung
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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
☐	Outdoor access point	17 dBm / MHz
☒	Indoor access point	17 dBm / MHz
☐	Fixed point-to-point access points	17 dBm / MHz
☐	Client devices	11 dBm / MHz

Frequency Band (MHz)		Limit
☒	5250 ~ 5350	11 dBm / MHz
☒	5470 ~ 5725	11 dBm / MHz
☒	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 $\geq 10 \times (\text{number of points in sweep}) \times (\text{total on/off period of the transmitted signal})$.
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

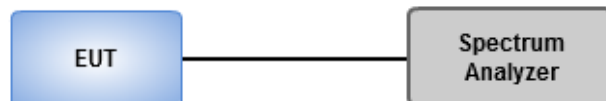
Duty cycle $\geq 98\%$

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 $\geq 10 \times (\text{number of points in sweep}) \times (\text{total on/off period of the transmitted signal})$.
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	25-26°C / 66-68%	Tested By	Akun Chung
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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

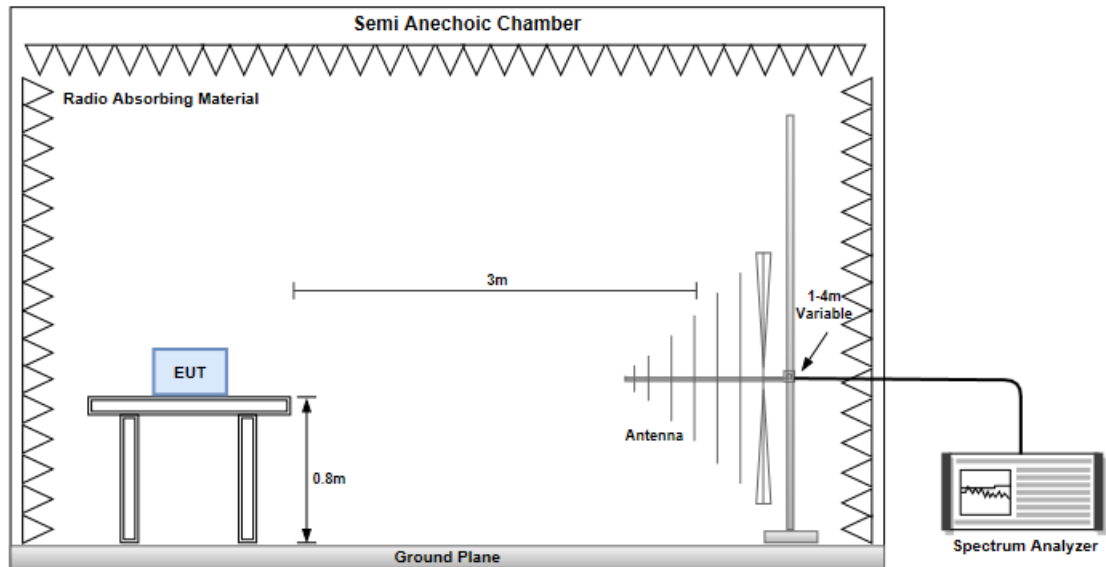
1. Measurement is made at a semi-anechoic chamber that incorporates a turntable allowing a EUT rotation of 360°. A continuously-rotating, remotely-controlled turntable is installed at the test site to support the EUT and facilitate determination of the direction of maximum radiation for each EUT emission 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:

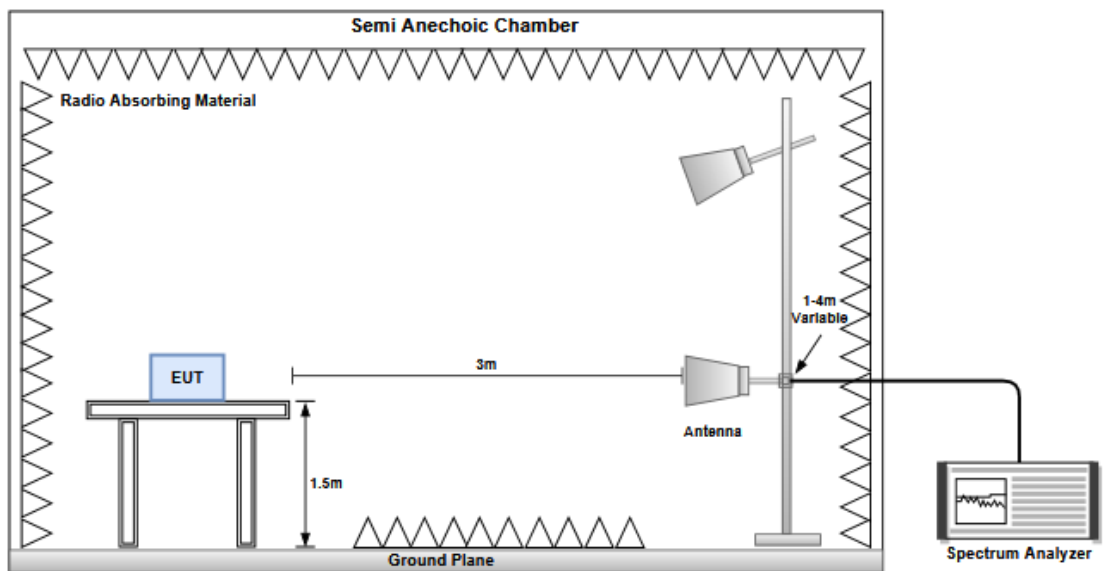
1. 120kHz measurement bandwidth of test receiver and Quasi-peak detector is for radiated emission below 1GHz.
2. RBW=1MHz, VBW=3MHz and Peak detector is for peak measured value of radiated emission above 1GHz.
3. RBW=1MHz, VBW=1/T and Peak detector is for average measured value of radiated emission above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

3.4.3 Test Setup

Unwanted Emissions below 1 GHz



Unwanted Emissions above 1 GHz



3.4.4 Test Results

Refer to Appendix D.

3.5 Frequency Stability

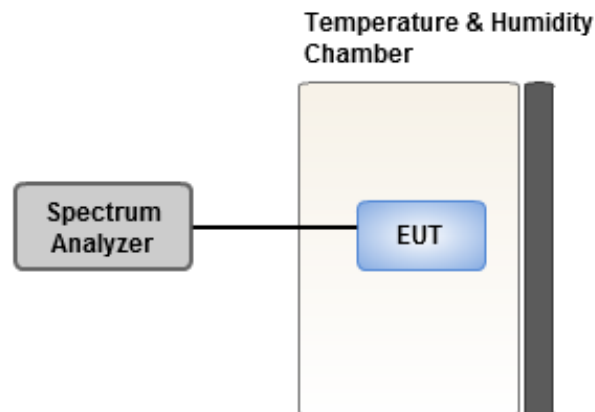
3.5.1 Limit of Frequency Stability

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	25-26°C / 66-68%	Tested By	Akun Chung
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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

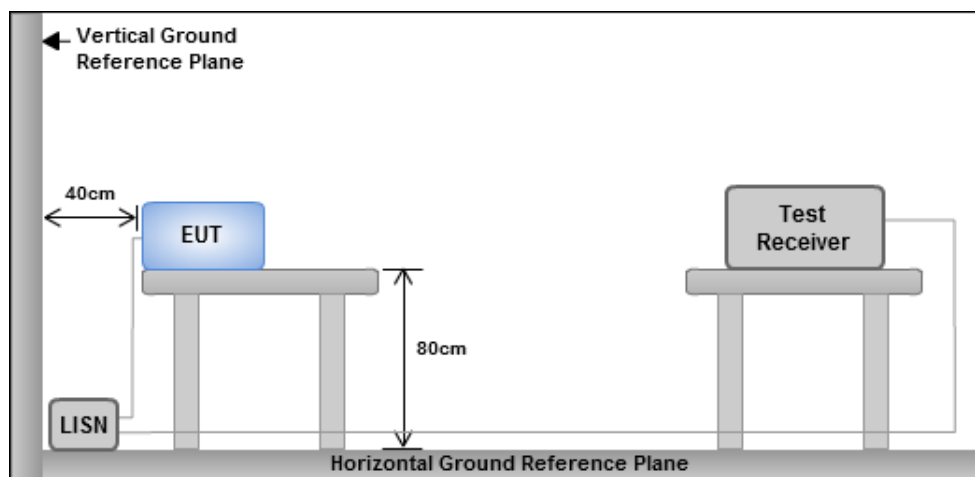
Conducted Emissions Limit		
Frequency Emission (MHz)	Quasi-Peak	Average
0.15-0.5	66 - 56 *	56 - 46 *
0.5-5	56	46
5-30	60	50

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)_3TX	36.168M	17.046M	17M0D1D	18.612M	16.386M
802.11be EHT20_Nss1,(MCS0)_3TX	33.066M	19.01M	19M0D1D	19.8M	18.831M
802.11be EHT40_Nss1,(MCS0)_3TX	39.6M	37.601M	37M6D1D	39.072M	37.541M
802.11be EHT80_Nss1,(MCS0)_3TX	81.048M	77.001M	77M0D1D	81.048M	76.882M
802.11be EHT160_Nss1,(MCS0)_3TX	80.16M	77.641M	77M6D1D	80.16M	77.481M
5.25-5.35GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_3TX	22.176M	16.413M	16M4D1D	18.282M	16.36M
802.11be EHT20_Nss1,(MCS0)_3TX	23.628M	18.891M	18M9D1D	19.8M	18.801M
802.11be EHT40_Nss1,(MCS0)_3TX	39.336M	37.661M	37M7D1D	39.072M	37.481M
802.11be EHT80_Nss1,(MCS0)_3TX	80.256M	76.882M	76M9D1D	80.256M	76.762M
802.11be EHT160_Nss1,(MCS0)_3TX	80.24M	77.561M	77M6D1D	80.16M	77.481M
5.47-5.725GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_3TX	23.232M	16.413M	16M4D1D	15.315M	13.163M
802.11be EHT20_Nss1,(MCS0)_3TX	20.658M	18.861M	18M9D1D	14.82M	14.393M
802.11be EHT40_Nss1,(MCS0)_3TX	41.844M	37.601M	37M6D1D	34.58M	33.688M
802.11be EHT80_Nss1,(MCS0)_3TX	84.3M	77.121M	77M1D1D	77.925M	73.088M
802.11be EHT160_Nss1,(MCS0)_3TX	162.624M	155.682M	156MD1D	162.096M	155.202M
5.725-5.85GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_3TX	16.302M	28.181M	28M2D1D	3.14M	3.438M
802.11be EHT20_Nss1,(MCS0)_3TX	18.744M	24.018M	24M0D1D	4.42M	4.558M
802.11be EHT40_Nss1,(MCS0)_3TX	35.112M	38.921M	38M9D1D	3.92M	10.735M
802.11be EHT80_Nss1,(MCS0)_3TX	73.656M	77.001M	77M0D1D	3.92M	19.75M

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)
802.11a_Nss1,(6Mbps)_3TX	-	-	-	-	-	-	-	-
5180MHz	Pass	Inf	19.074M	16.386M	18.612M	16.386M	20.856M	16.386M
5200MHz	Pass	Inf	31.746M	16.782M	32.604M	16.756M	35.508M	16.967M
5240MHz	Pass	Inf	32.274M	16.703M	36.168M	17.046M	31.35M	16.676M
5260MHz	Pass	Inf	18.348M	16.36M	18.282M	16.36M	20.064M	16.36M
5300MHz	Pass	Inf	20.724M	16.386M	20.856M	16.413M	21.648M	16.36M
5320MHz	Pass	Inf	22.176M	16.413M	21.516M	16.36M	19.206M	16.386M
5500MHz	Pass	Inf	22.572M	16.413M	19.668M	16.413M	21.384M	16.386M
5580MHz	Pass	Inf	18.48M	16.333M	18.414M	16.36M	18.546M	16.36M
5700MHz	Pass	Inf	23.232M	16.413M	20.988M	16.413M	18.678M	16.386M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	15.315M	13.163M	16.365M	13.193M	16.53M	13.163M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	3.16M	3.458M	3.14M	3.498M	3.14M	3.438M
5745MHz	Pass	500k	16.302M	26.149M	15.708M	27.68M	16.17M	23.115M
5785MHz	Pass	500k	15.906M	26.017M	16.038M	27.205M	16.302M	24.355M
5825MHz	Pass	500k	15.708M	26.044M	16.236M	28.181M	16.302M	26.176M
802.11be EHT20_Nss1,(MCS0)_3TX	-	-	-	-	-	-	-	-
5180MHz	Pass	Inf	19.866M	18.831M	19.8M	18.861M	20.526M	18.861M
5200MHz	Pass	Inf	32.67M	18.891M	32.736M	18.891M	32.604M	18.891M
5240MHz	Pass	Inf	28.512M	18.951M	33.066M	19.01M	25.938M	18.951M
5260MHz	Pass	Inf	19.866M	18.801M	19.8M	18.831M	19.866M	18.861M
5300MHz	Pass	Inf	20.064M	18.831M	19.866M	18.861M	19.8M	18.831M
5320MHz	Pass	Inf	19.866M	18.861M	22.704M	18.861M	23.628M	18.891M
5500MHz	Pass	Inf	20.262M	18.861M	20.658M	18.861M	19.866M	18.861M
5580MHz	Pass	Inf	19.866M	18.831M	19.866M	18.831M	19.866M	18.831M
5700MHz	Pass	Inf	19.8M	18.831M	19.734M	18.861M	19.734M	18.831M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	14.82M	14.393M	14.865M	14.408M	14.865M	14.393M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	4.48M	4.558M	4.44M	4.558M	4.42M	4.558M
5745MHz	Pass	500k	18.678M	21.379M	18.414M	24.018M	18.15M	19.85M
5785MHz	Pass	500k	18.48M	19.25M	18.15M	20.84M	18.348M	19.19M
5825MHz	Pass	500k	18.744M	19.31M	18.348M	21.349M	18.414M	19.43M
802.11be EHT40_Nss1,(MCS0)_3TX	-	-	-	-	-	-	-	-
5190MHz	Pass	Inf	39.204M	37.601M	39.072M	37.541M	39.204M	37.601M
5230MHz	Pass	Inf	39.6M	37.601M	39.204M	37.601M	39.204M	37.601M
5270MHz	Pass	Inf	39.072M	37.481M	39.336M	37.481M	39.204M	37.481M
5310MHz	Pass	Inf	39.204M	37.661M	39.204M	37.601M	39.072M	37.661M
5510MHz	Pass	Inf	39.204M	37.541M	39.072M	37.541M	39.336M	37.541M
5590MHz	Pass	Inf	39.072M	37.541M	39.204M	37.541M	39.072M	37.601M

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)
5670MHz	Pass	Inf	41.844M	37.601M	41.316M	37.601M	39.336M	37.541M
5710MHz Straddle 5.47-5.725GHz	Pass	Inf	34.755M	33.688M	35.175M	33.723M	34.58M	33.723M
5710MHz Straddle 5.725-5.85GHz	Pass	500k	3.96M	10.795M	4M	12.814M	3.92M	10.735M
5755MHz	Pass	500k	34.056M	37.901M	31.284M	37.961M	35.112M	37.781M
5795MHz	Pass	500k	35.112M	38.201M	33.396M	38.921M	33.66M	38.141M
802.11be EHT80_Nss1,(MCS0)_3TX	-	-	-	-	-	-	-	-
5210MHz	Pass	Inf	81.048M	77.001M	81.048M	76.882M	81.048M	77.001M
5290MHz	Pass	Inf	80.256M	76.762M	80.256M	76.882M	80.256M	76.882M
5530MHz	Pass	Inf	80.256M	76.642M	80.52M	76.642M	80.52M	76.522M
5610MHz	Pass	Inf	80.256M	76.882M	80.256M	76.882M	80.784M	77.121M
5690MHz Straddle 5.47-5.725GHz	Pass	Inf	77.925M	73.088M	84.075M	73.088M	84.3M	73.163M
5690MHz Straddle 5.725-5.85GHz	Pass	500k	3.96M	19.75M	3.96M	23.628M	3.92M	20.41M
5775MHz	Pass	500k	66.528M	77.001M	68.64M	76.882M	73.656M	76.882M
802.11be EHT160_Nss1,(MCS0)_3TX	-	-	-	-	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	Inf	80.16M	77.481M	80.16M	77.481M	80.16M	77.641M
5250MHz Straddle 5.25-5.35GHz	Pass	Inf	80.16M	77.481M	80.24M	77.481M	80.16M	77.561M
5570MHz	Pass	Inf	162.624M	155.442M	162.096M	155.202M	162.624M	155.682M

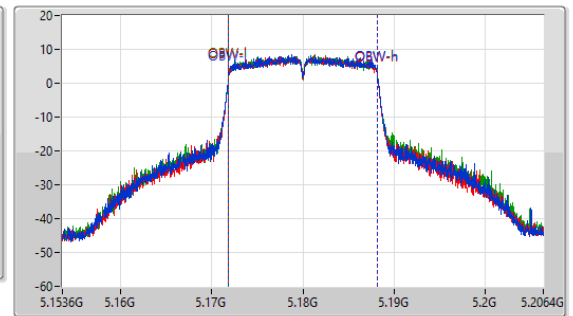
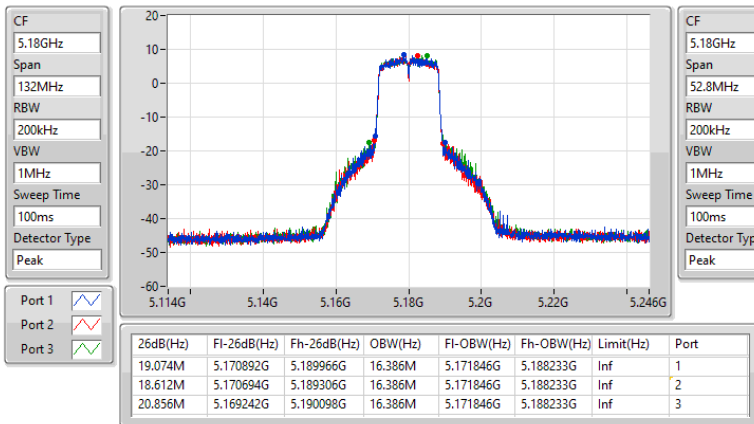
Port X-N dB = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band

Port X-OBW = Port X 99% occupied bandwidth

5.15-5.25GHz_802.11a_Nss1,(6Mbps)_3TX

EBW

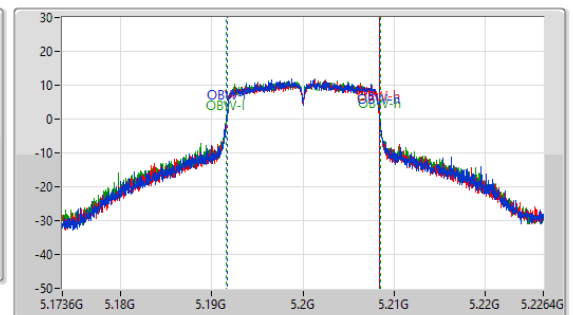
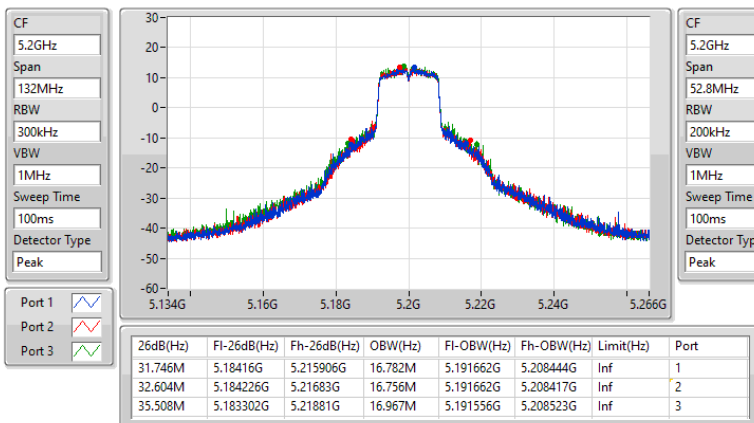
5180MHz



5.15-5.25GHz_802.11a_Nss1,(6Mbps)_3TX

EBW

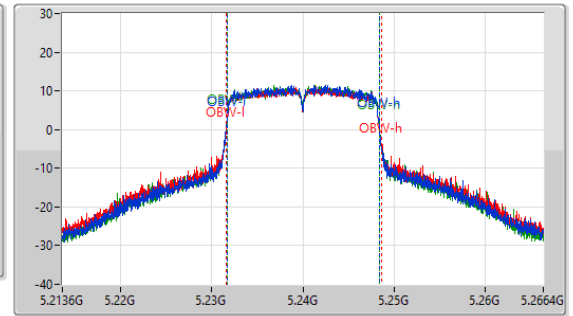
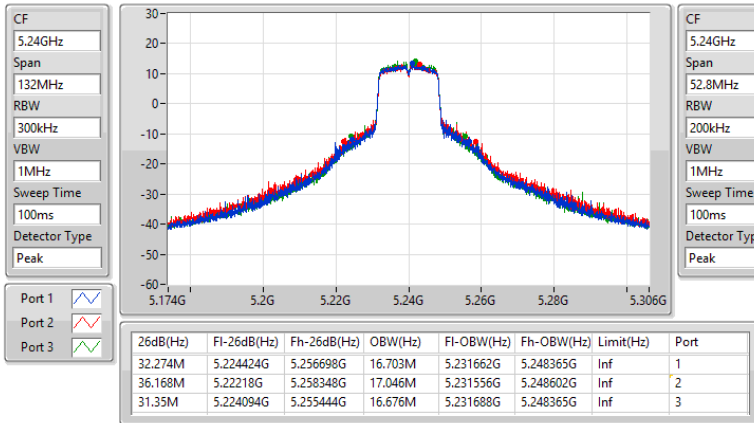
5200MHz



5.15-5.25GHz_802.11a_Nss1,(6Mbps)_3TX

EBW

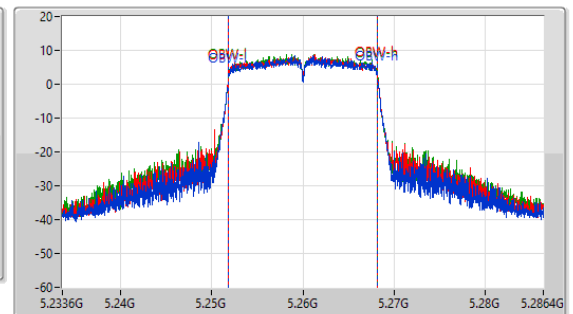
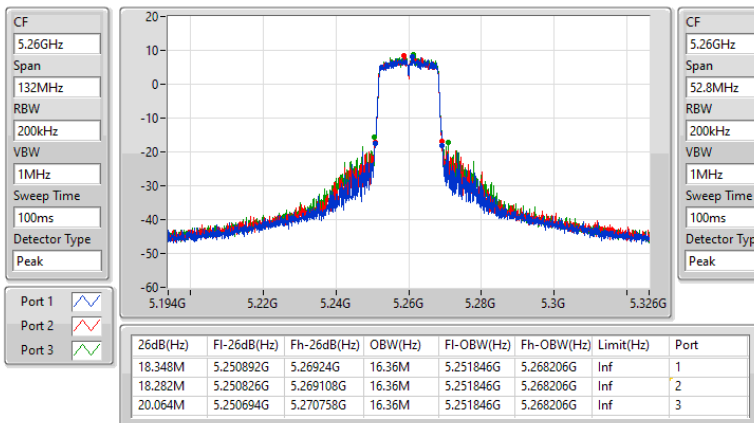
5240MHz



5.25-5.35GHz_802.11a_Nss1,(6Mbps)_3TX

EBW

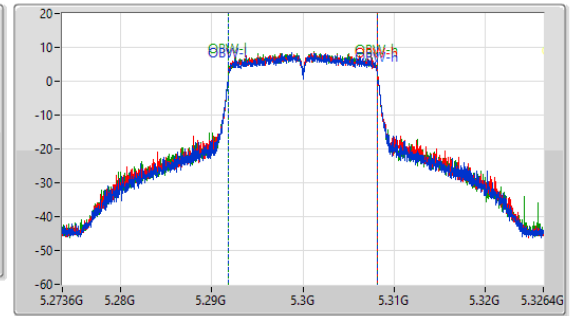
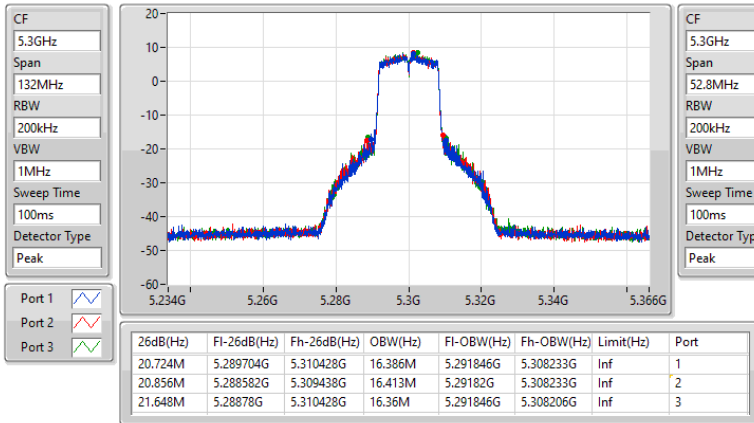
5260MHz



5.25-5.35GHz_802.11a_Nss1,(6Mbps)_3TX

EBW

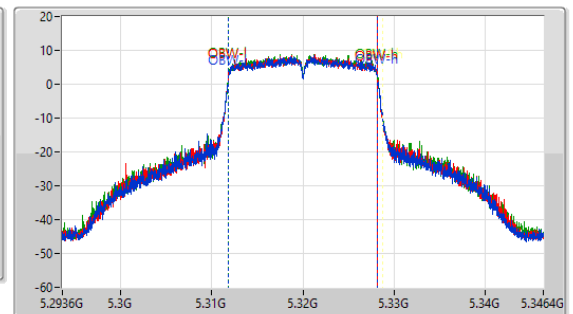
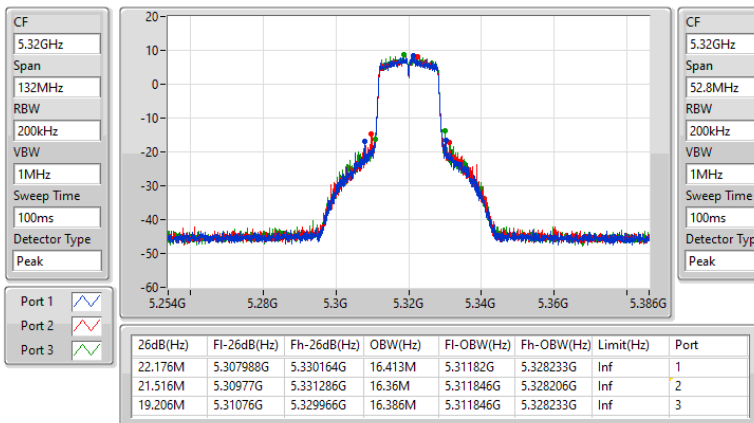
5300MHz



5.25-5.35GHz_802.11a_Nss1,(6Mbps)_3TX

EBW

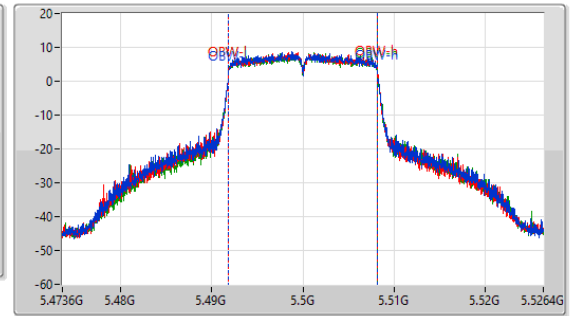
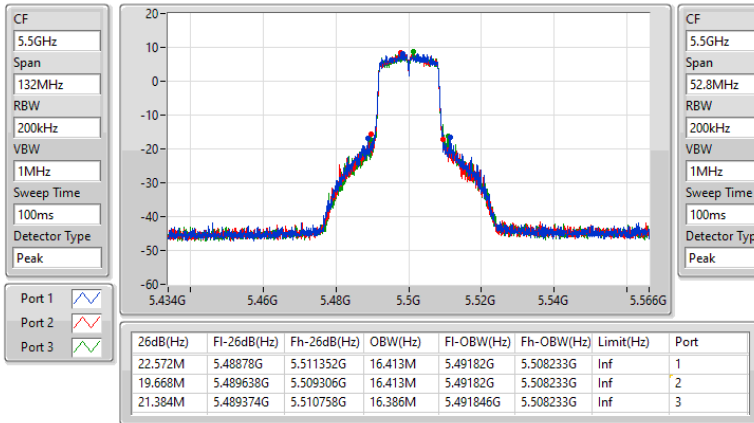
5320MHz



5.47-5.725GHz_802.11a_Nss1,(6Mbps)_3TX

EBW

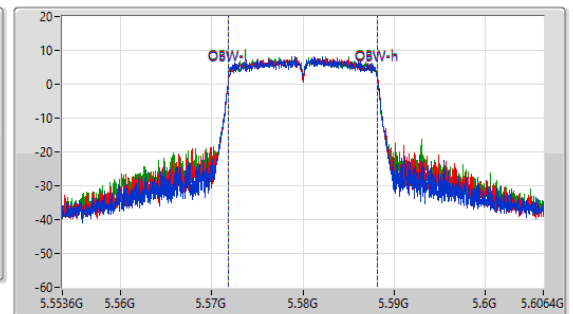
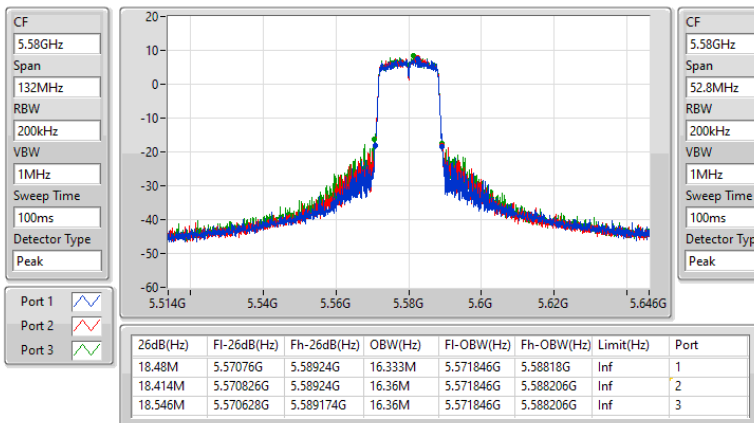
5500MHz



5.47-5.725GHz_802.11a_Nss1,(6Mbps)_3TX

EBW

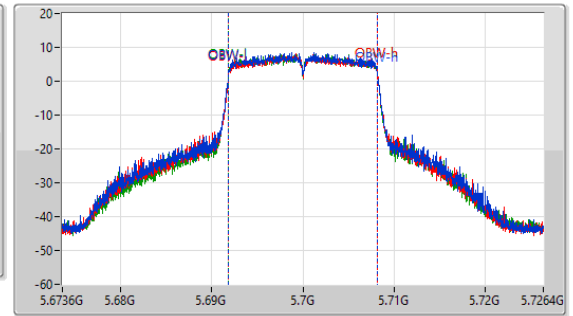
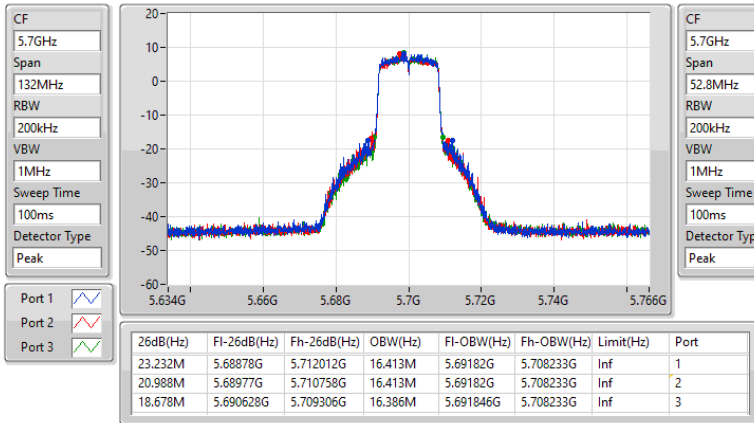
5580MHz



5.47-5.725GHz_802.11a_Nss1,(6Mbps)_3TX

EBW

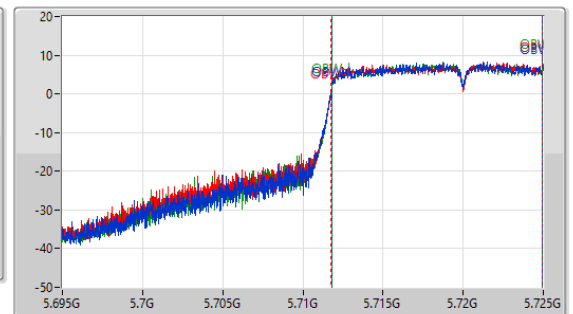
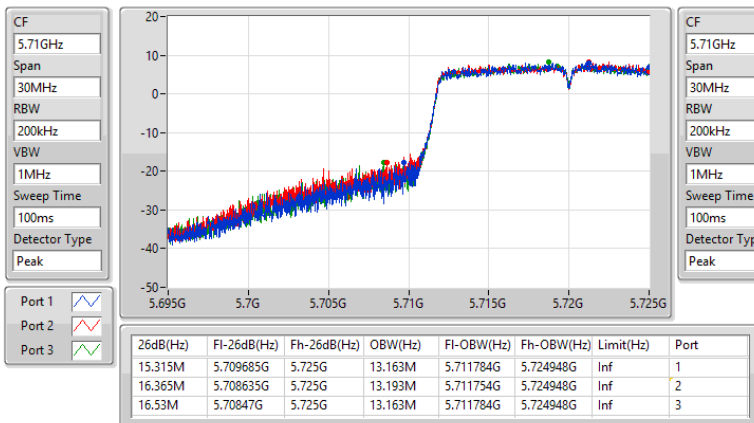
5700MHz



5.47-5.725GHz_802.11a_Nss1,(6Mbps)_3TX

EBW

5720MHz Straddle 5.47-5.725GHz

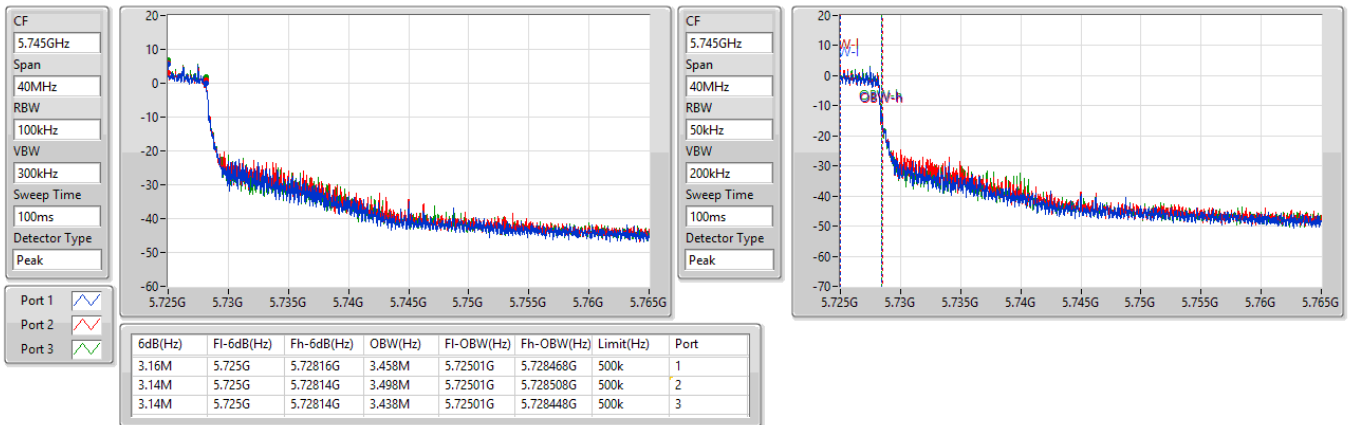




5.725-5.85GHz_802.11a_Nss1,(6Mbps)_3TX

EBW

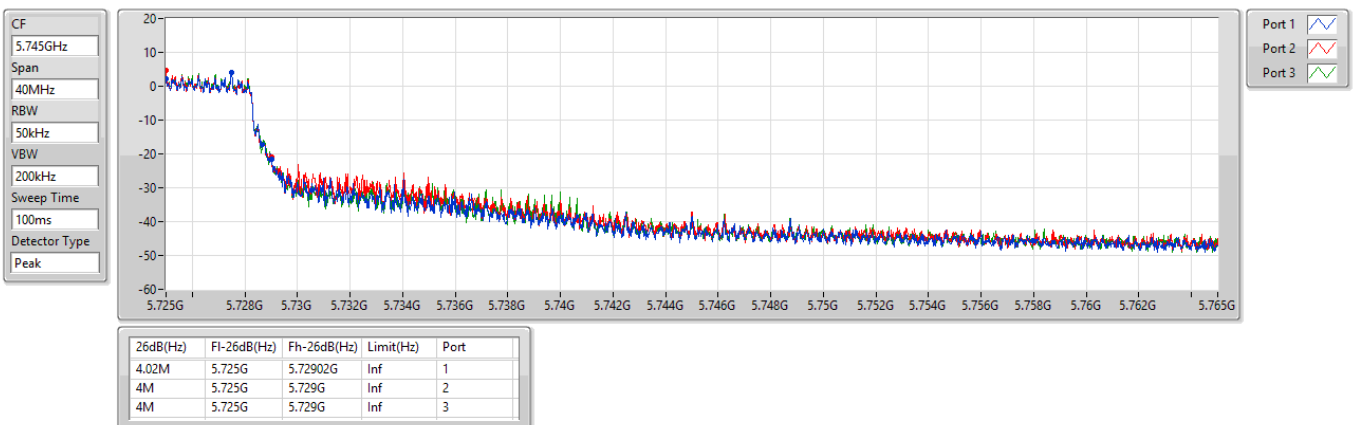
5720MHz Straddle 5.725-5.85GHz



5.725-5.85GHz_802.11a_Nss1,(6Mbps)_3TX

EBW

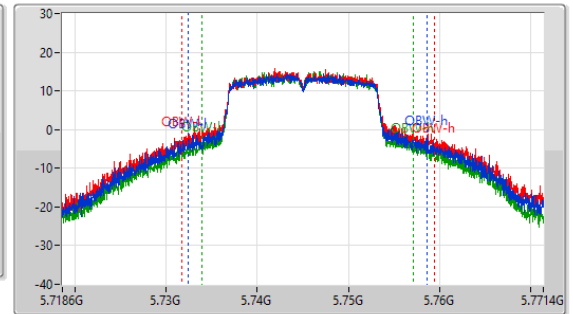
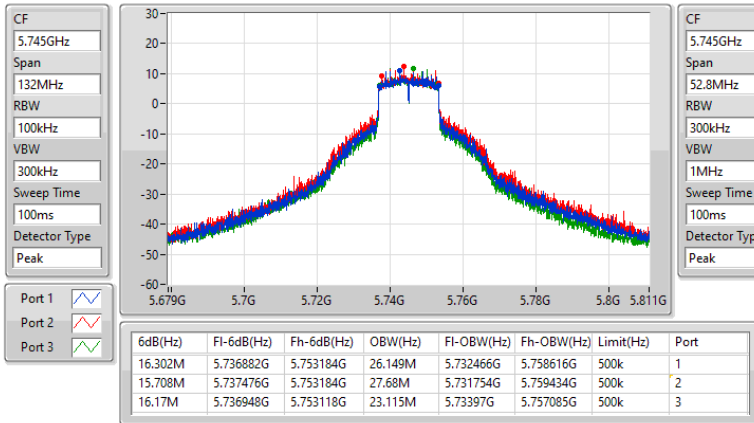
5720MHz Straddle 5.725-5.85GHz



5.725-5.85GHz_802.11a_Nss1,(6Mbps)_3TX

EBW

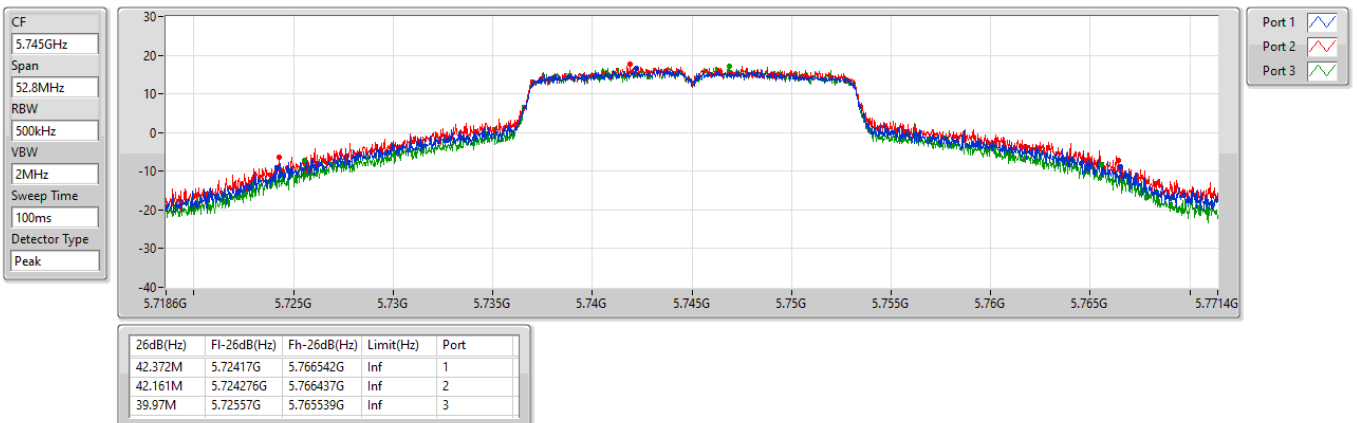
5745MHz



5.725-5.85GHz_802.11a_Nss1,(6Mbps)_3TX

EBW

5745MHz

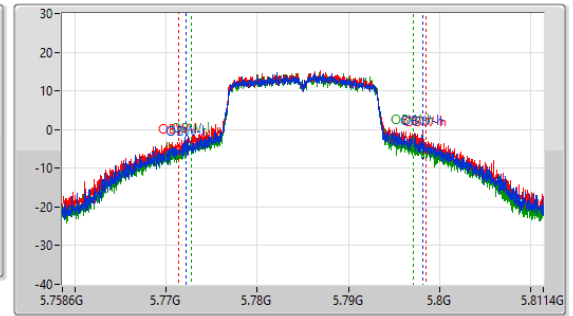
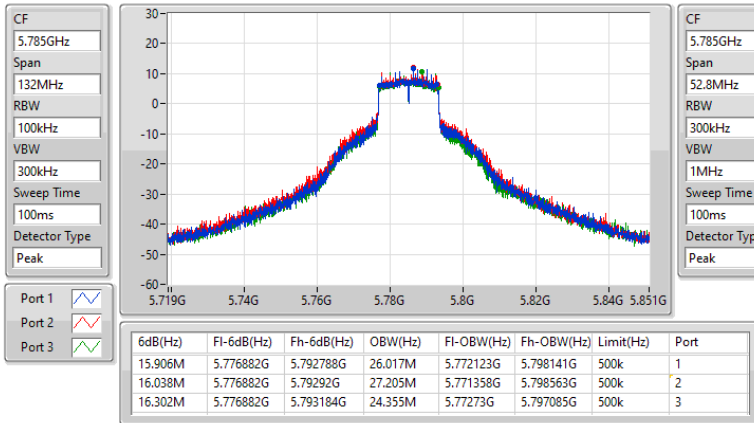




5.725-5.85GHz_802.11a_Nss1,(6Mbps)_3TX

EBW

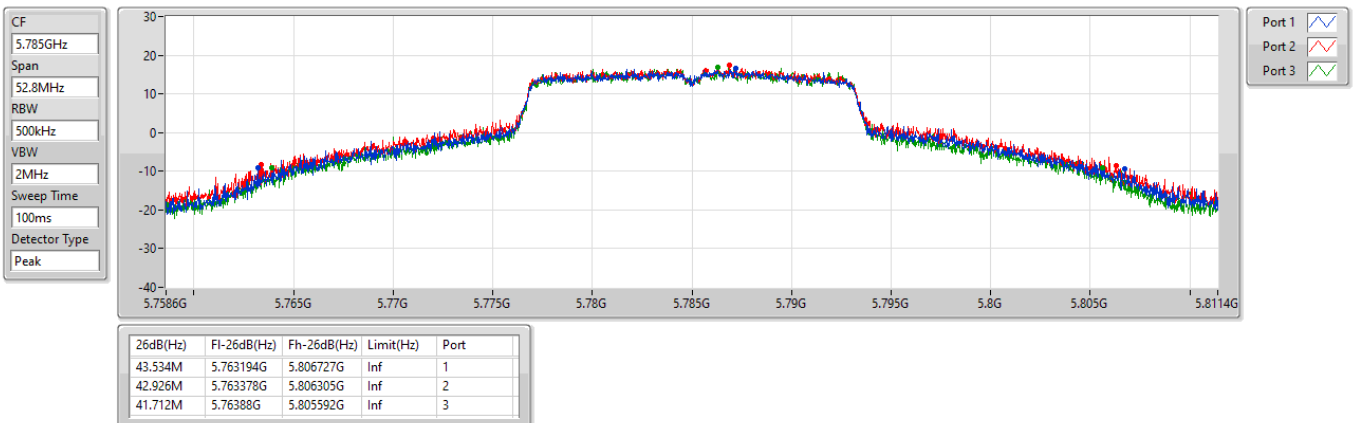
5785MHz



5.725-5.85GHz_802.11a_Nss1,(6Mbps)_3TX

EBW

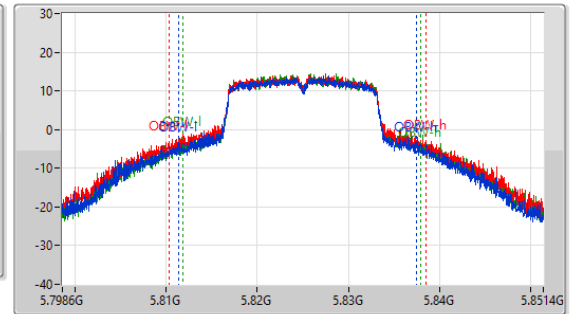
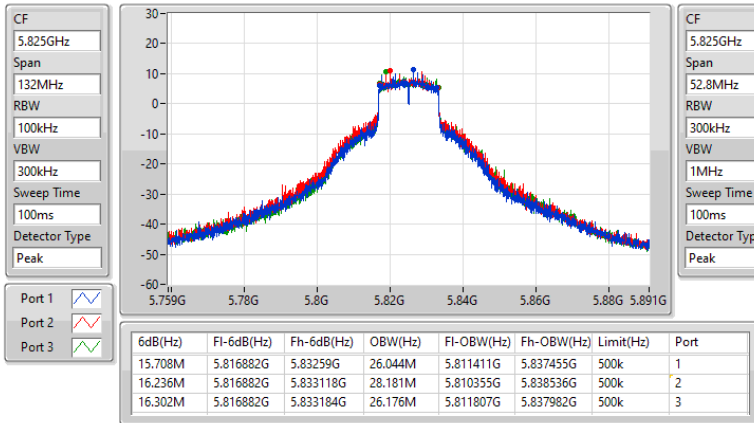
5785MHz



5.725-5.85GHz_802.11a_Nss1,(6Mbps)_3TX

EBW

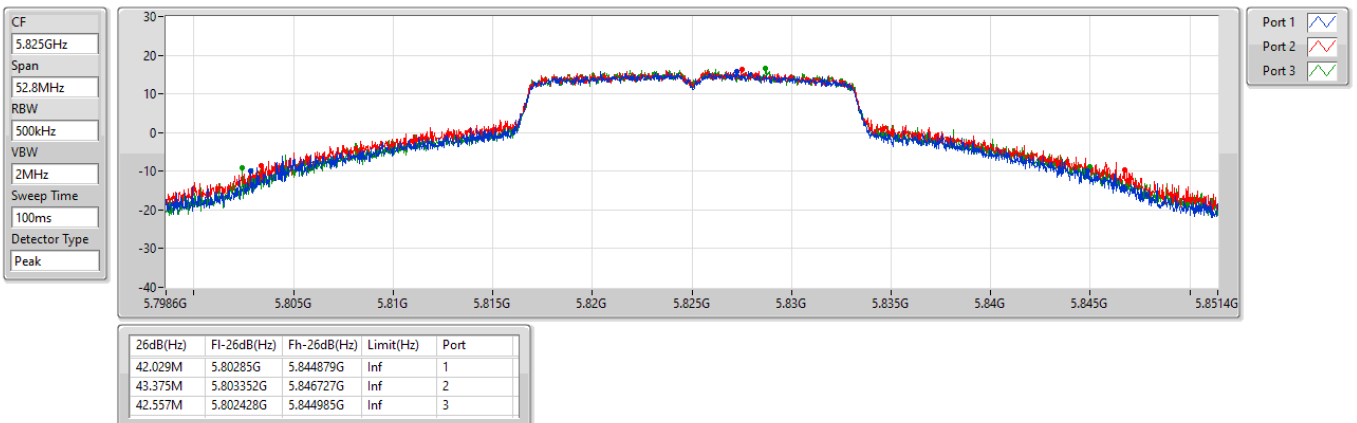
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5.725-5.85GHz_802.11a_Nss1,(6Mbps)_3TX

EBW

5825MHz

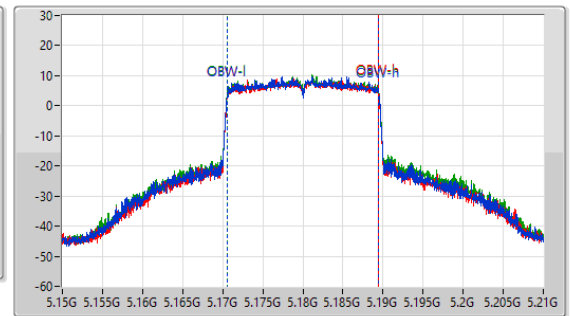
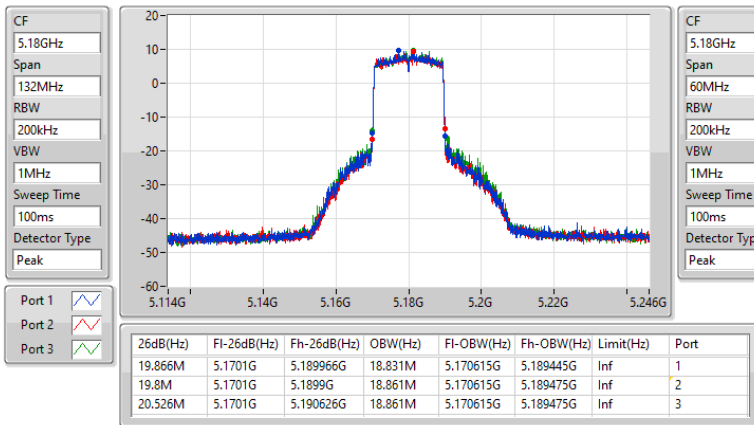




5.15-5.25GHz_802.11be EHT20_Nss1,(MCS0)_3TX

EBW

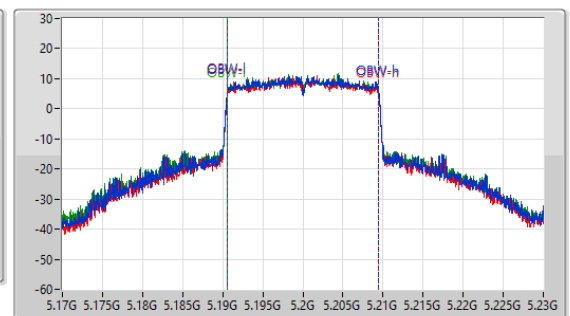
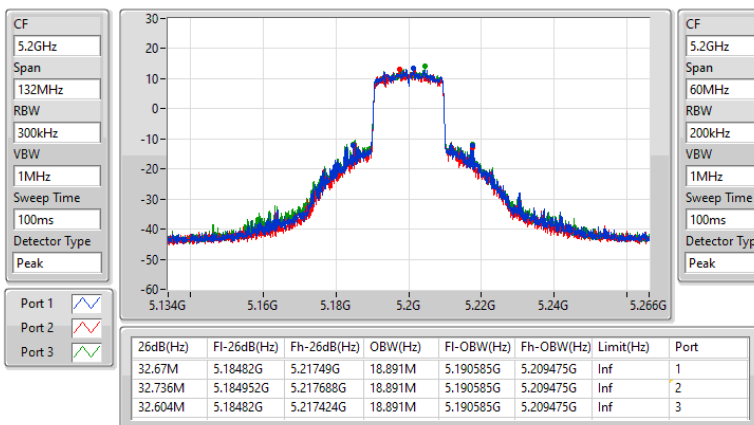
5180MHz



5.15-5.25GHz_802.11be EHT20_Nss1,(MCS0)_3TX

EBW

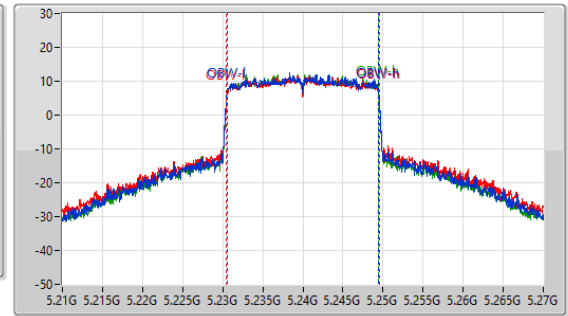
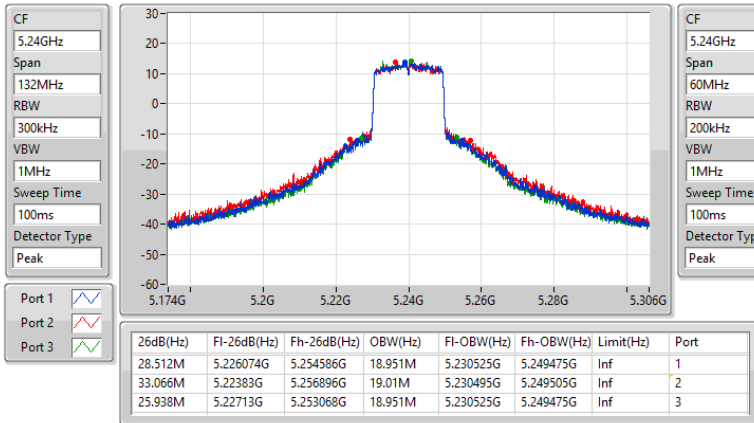
5200MHz



5.15-5.25GHz_802.11be EHT20_Nss1,(MCS0)_3TX

EBW

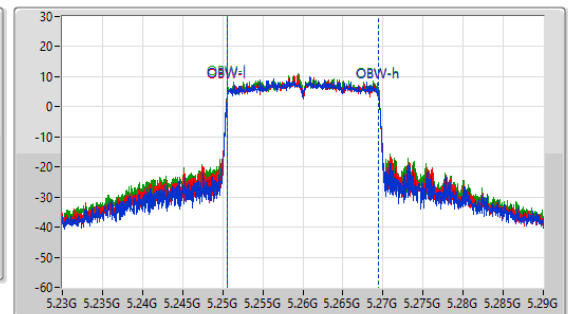
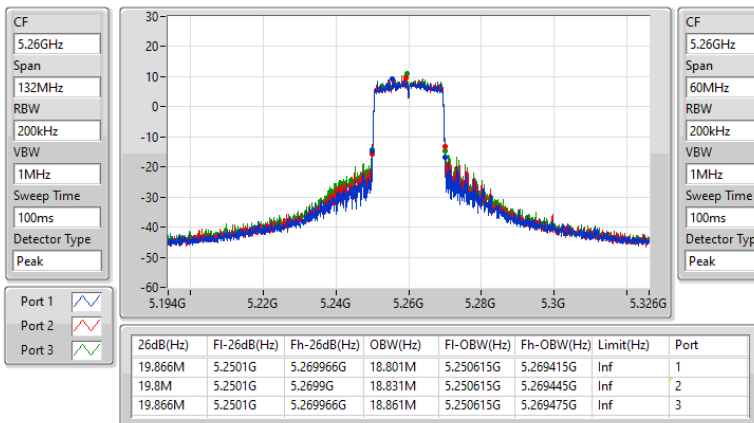
5240MHz



5.25-5.35GHz_802.11be EHT20_Nss1,(MCS0)_3TX

EBW

5260MHz

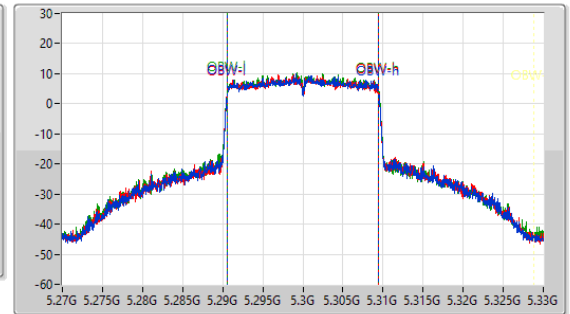
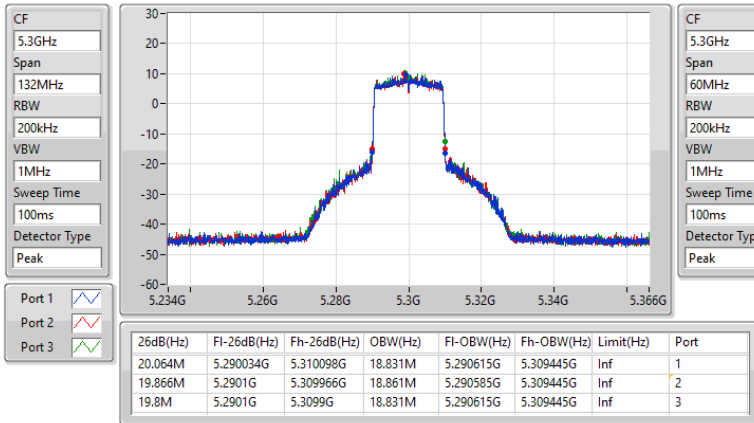




5.25-5.35GHz_802.11be EHT20_Nss1,(MCS0)_3TX

EBW

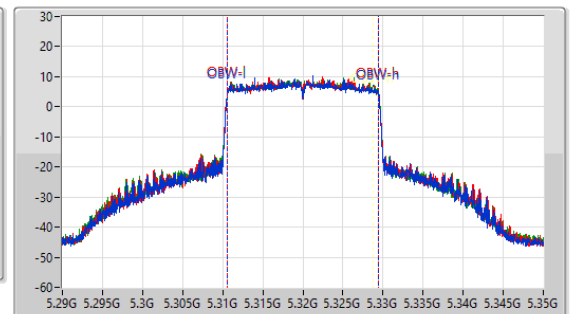
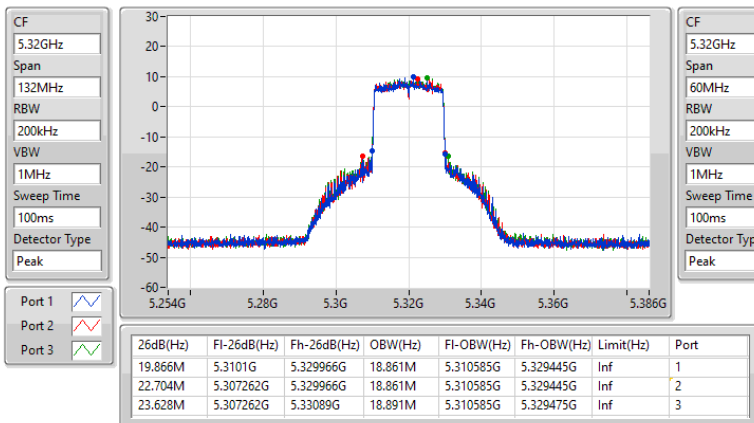
5300MHz



5.25-5.35GHz_802.11be EHT20_Nss1,(MCS0)_3TX

EBW

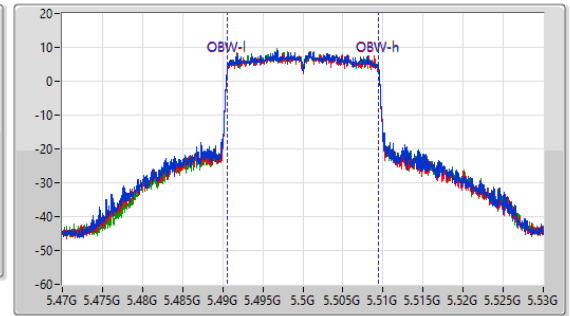
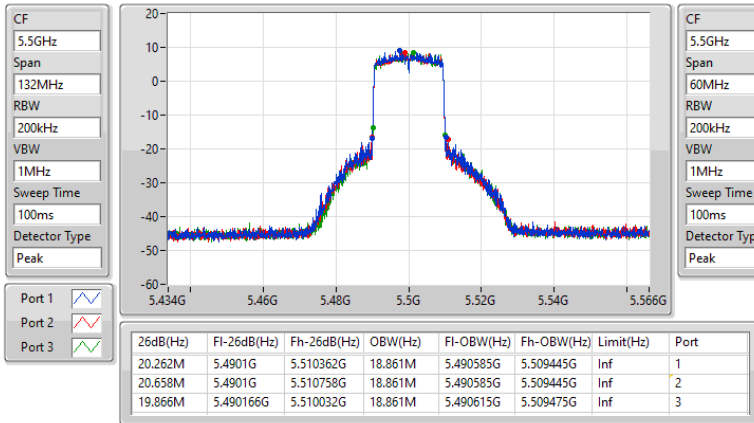
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5.47-5.725GHz_802.11be EHT20_Nss1,(MCS0)_3TX

EBW

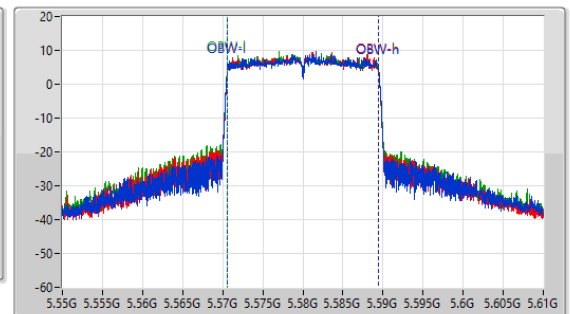
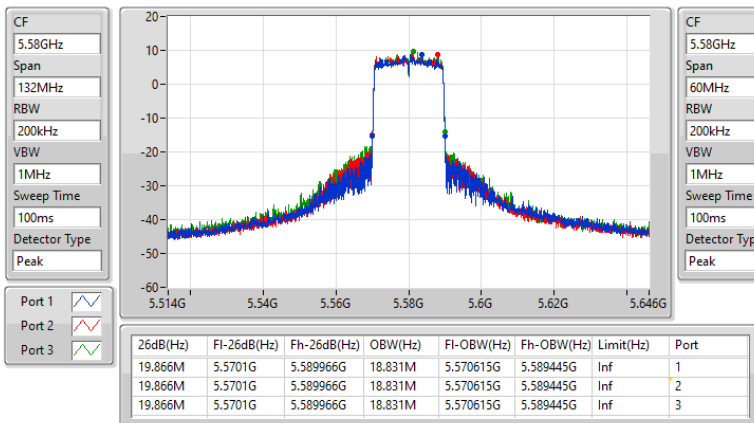
5500MHz



5.47-5.725GHz_802.11be EHT20_Nss1,(MCS0)_3TX

EBW

5580MHz

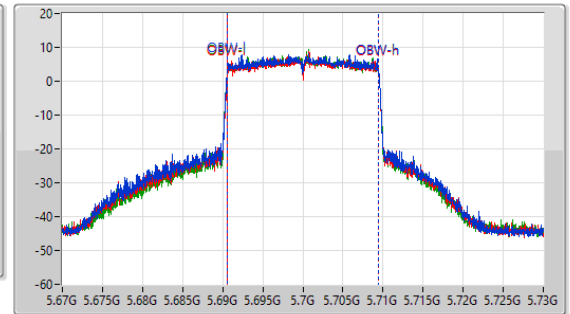
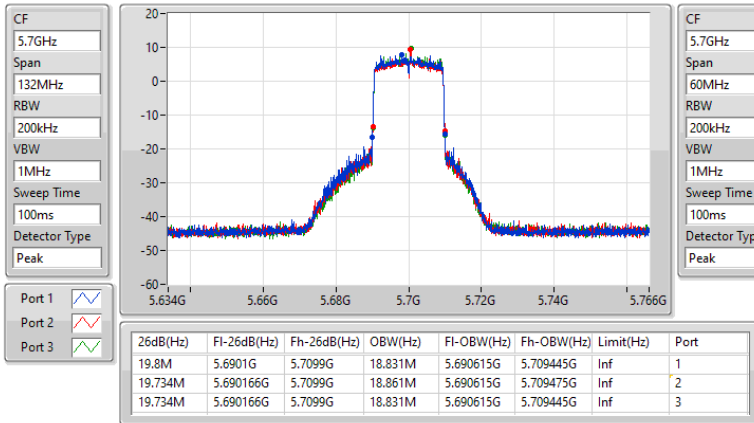




5.47-5.725GHz_802.11be EHT20_Nss1,(MCS0)_3TX

EBW

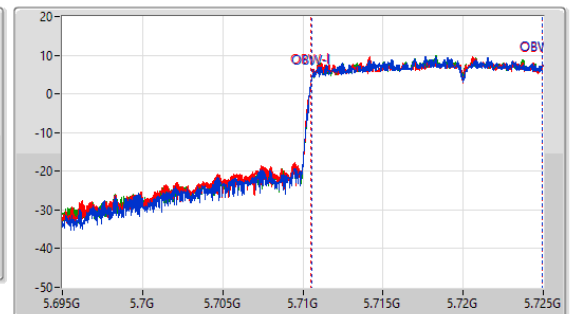
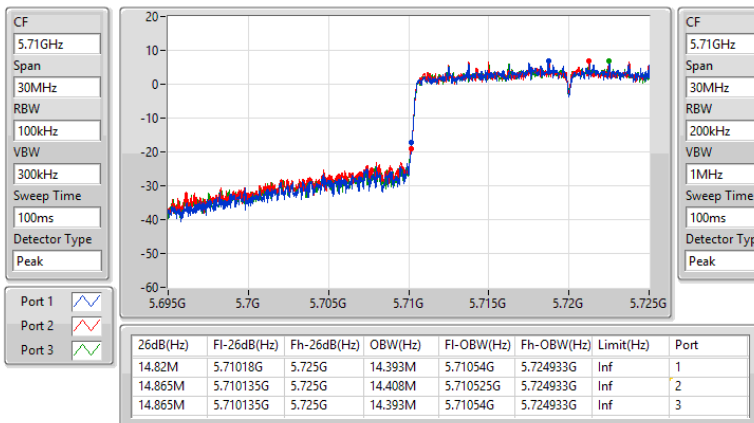
5700MHz



5.47-5.725GHz_802.11be EHT20_Nss1,(MCS0)_3TX

EBW

5720MHz Straddle 5.47-5.725GHz

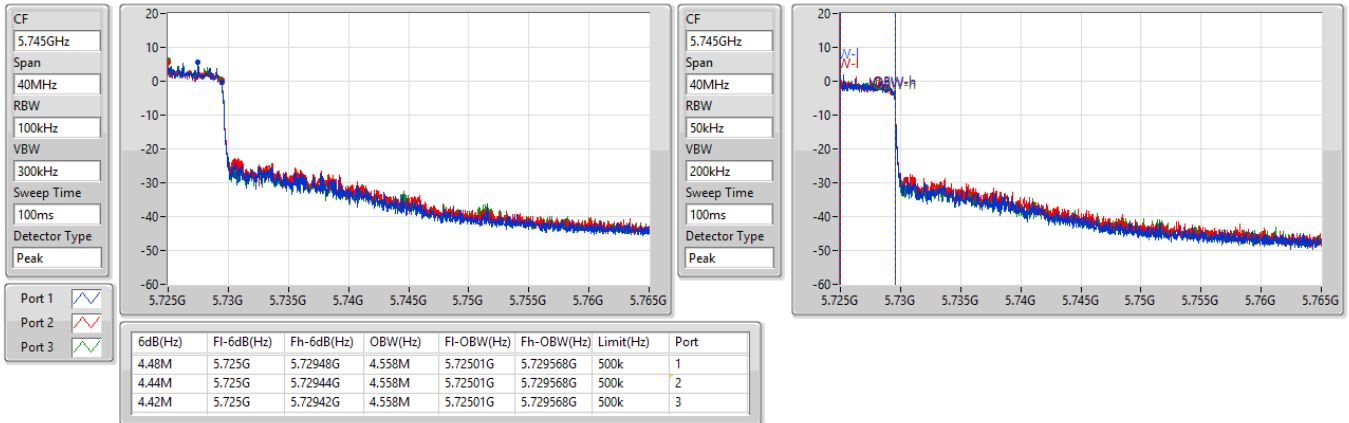




5.725-5.85GHz_802.11be EHT20_Nss1,(MCS0)_3TX

EBW

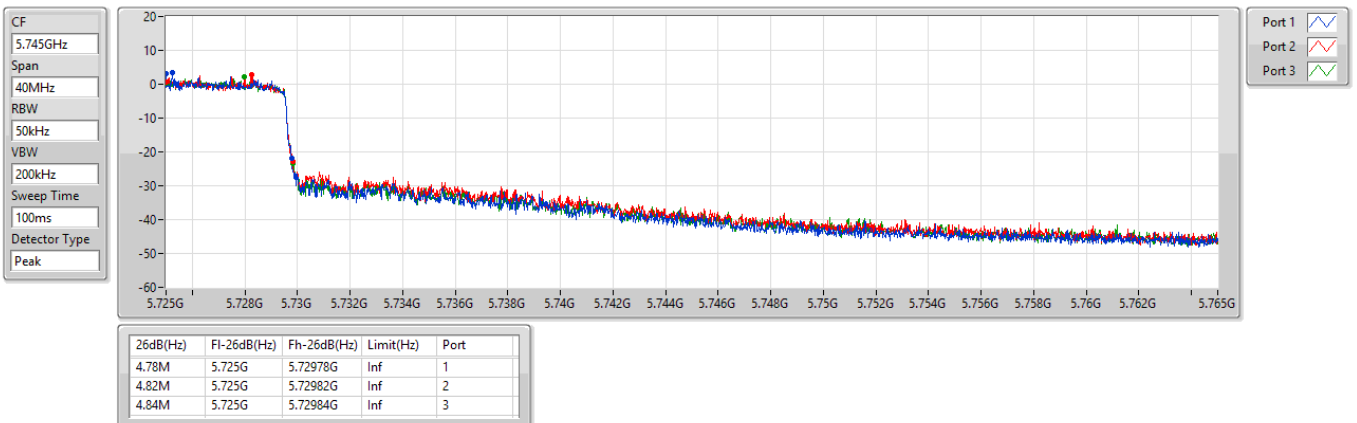
5720MHz Straddle 5.725-5.85GHz



5.725-5.85GHz_802.11be EHT20_Nss1,(MCS0)_3TX

EBW

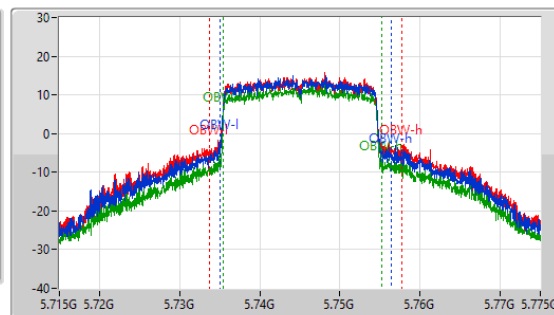
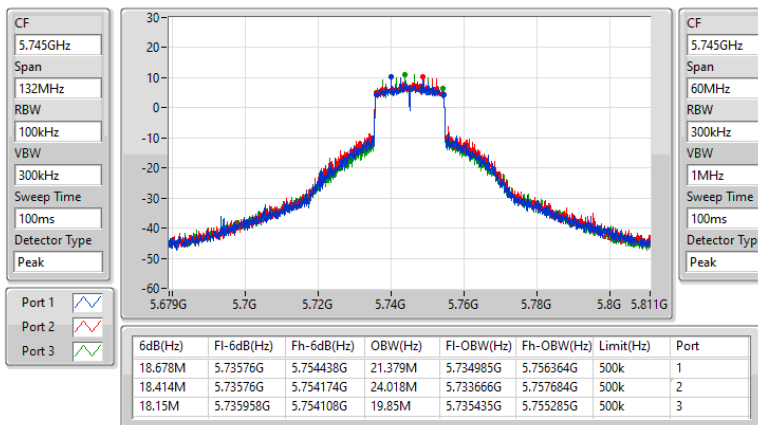
5720MHz Straddle 5.725-5.85GHz



5.725-5.85GHz_802.11be EHT20_Nss1,(MCS0)_3TX

EBW

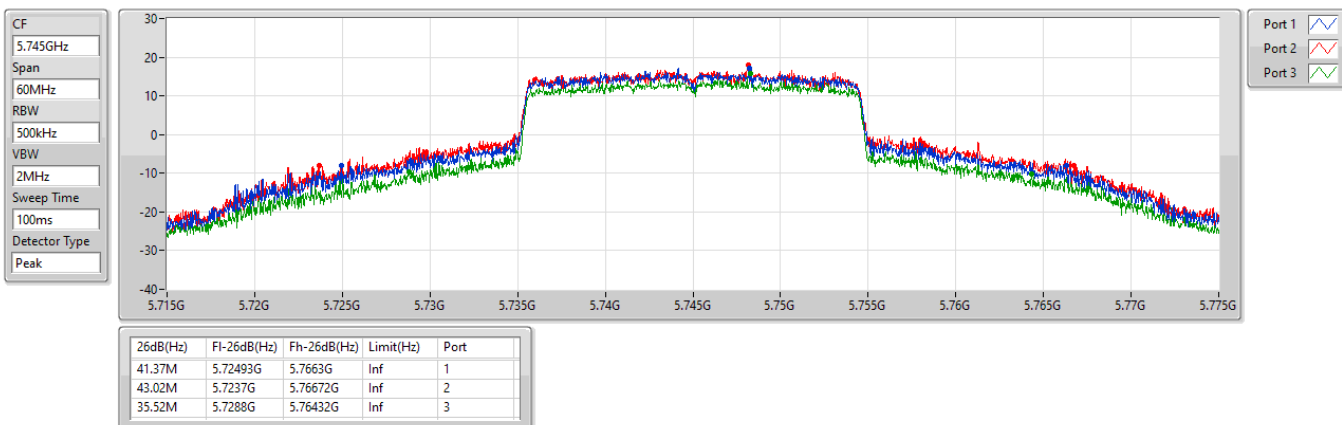
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5.725-5.85GHz_802.11be EHT20_Nss1,(MCS0)_3TX

EBW

5745MHz

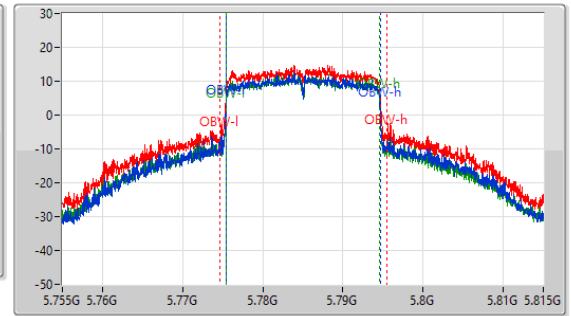
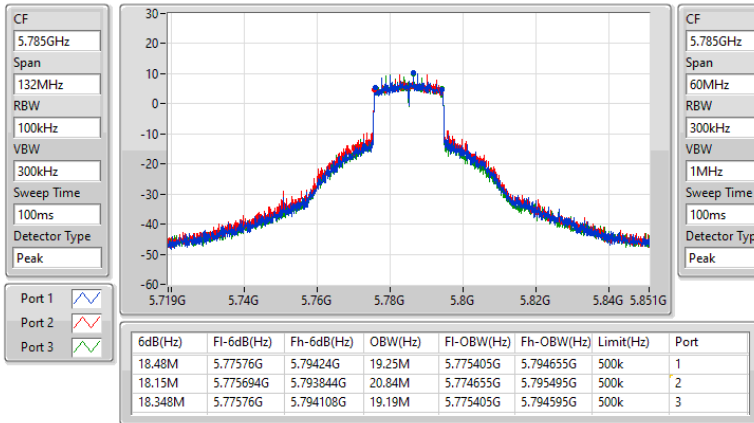




5.725-5.85GHz_802.11be EHT20_Nss1,(MCS0)_3TX

EBW

5785MHz



5.725-5.85GHz_802.11be EHT20_Nss1,(MCS0)_3TX

EBW

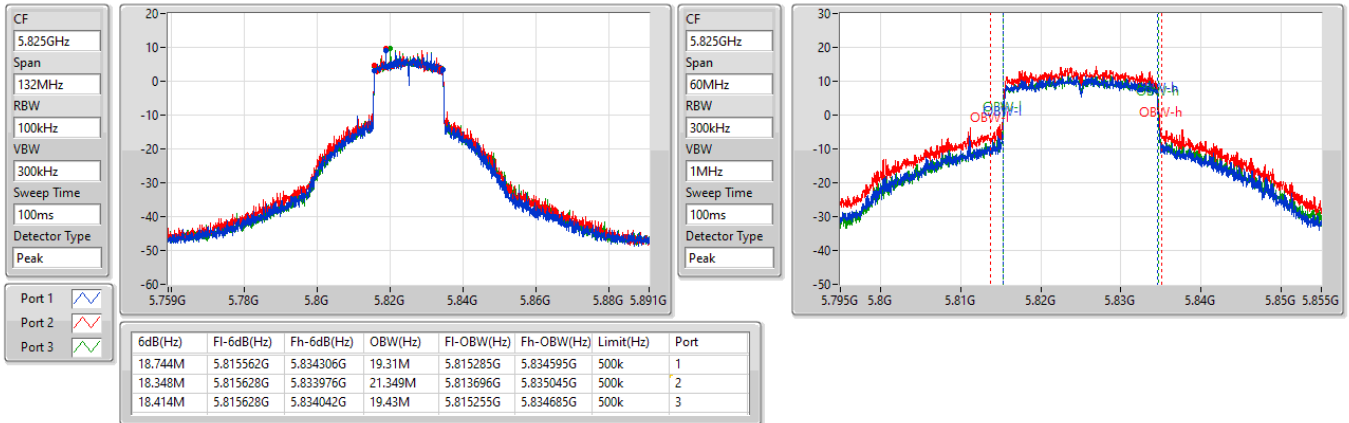
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5.725-5.85GHz_802.11be EHT20_Nss1,(MCS0)_3TX

EBW

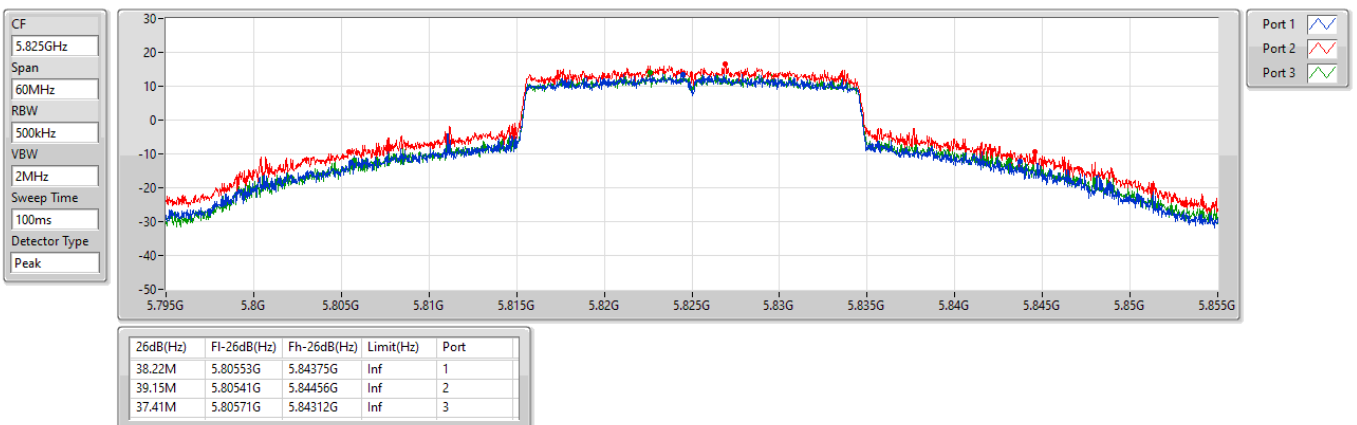
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5.725-5.85GHz_802.11be EHT20_Nss1,(MCS0)_3TX

EBW

5825MHz

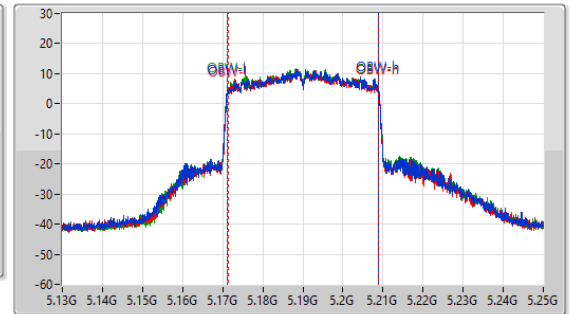
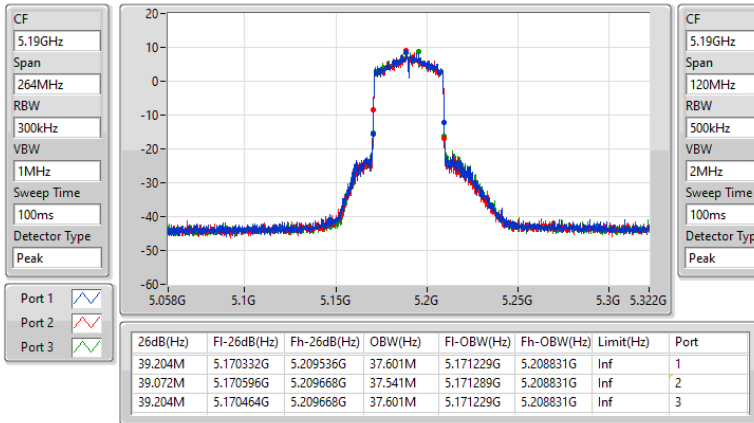




5.15-5.25GHz_802.11be EHT40_Nss1,(MCS0)_3TX

EBW

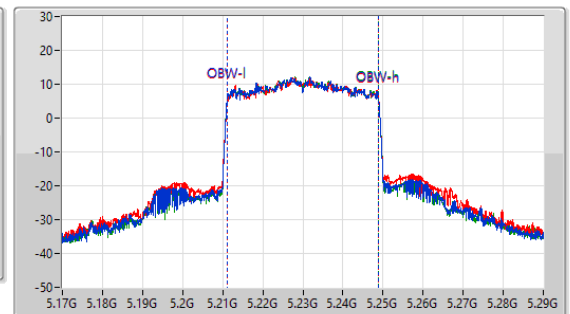
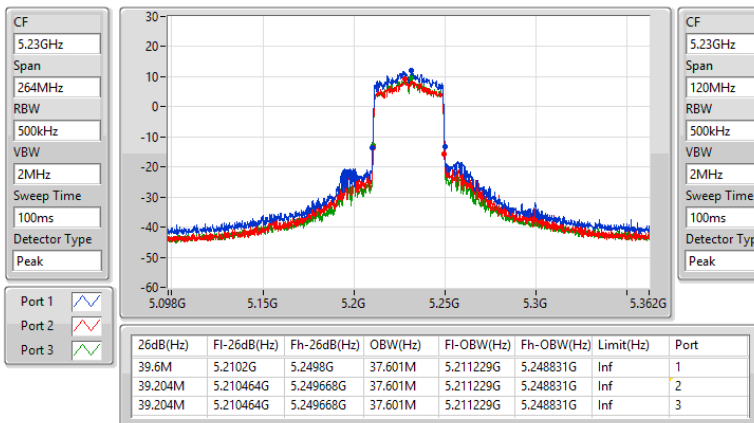
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5.15-5.25GHz_802.11be EHT40_Nss1,(MCS0)_3TX

EBW

5230MHz

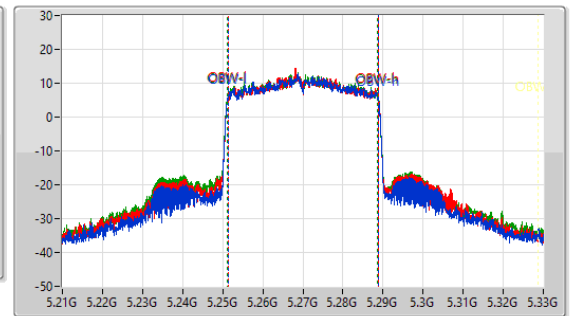
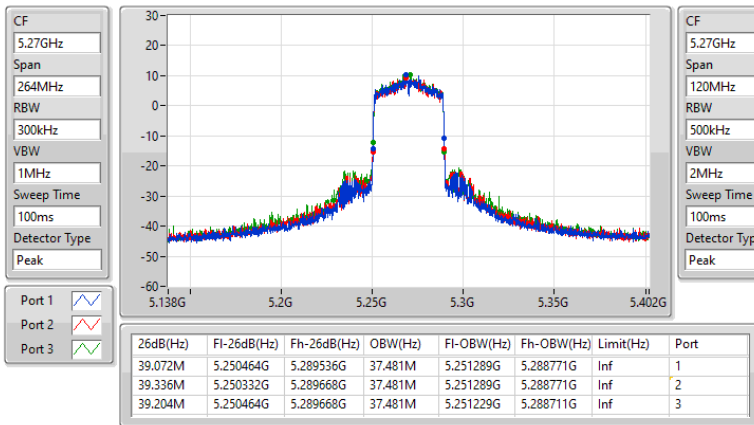




5.25-5.35GHz_802.11be EHT40_Nss1,(MCS0)_3TX

EBW

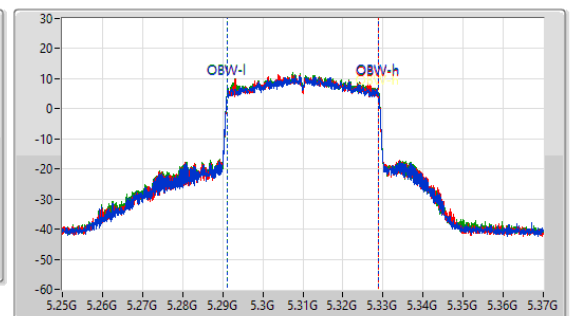
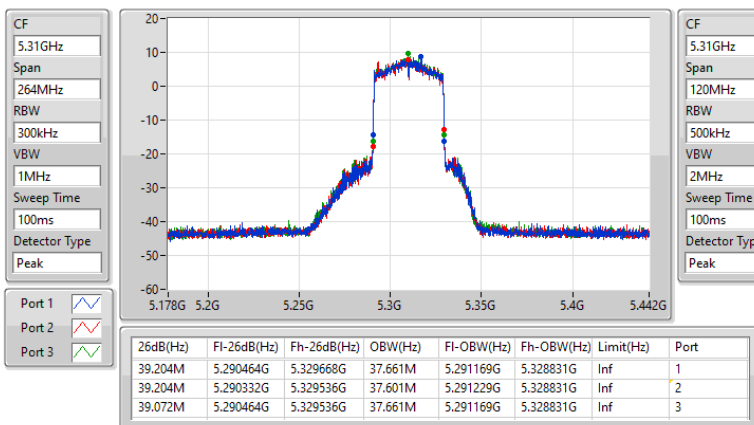
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5.25-5.35GHz_802.11be EHT40_Nss1,(MCS0)_3TX

EBW

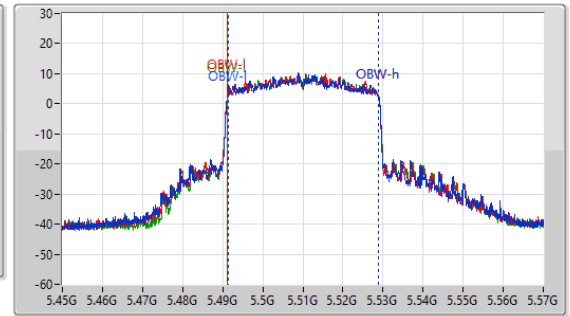
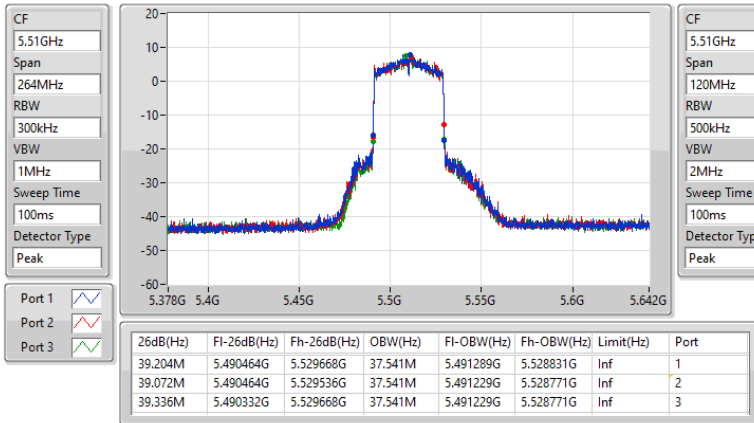
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5.47-5.725GHz_802.11be EHT40_Nss1,(MCS0)_3TX

EBW

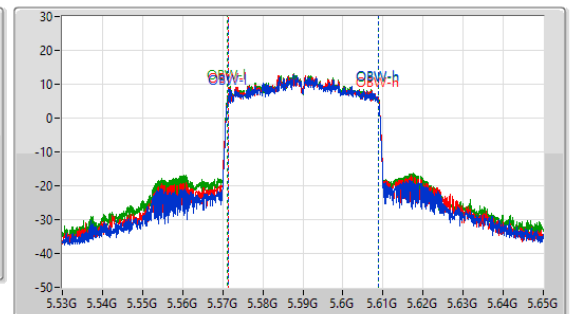
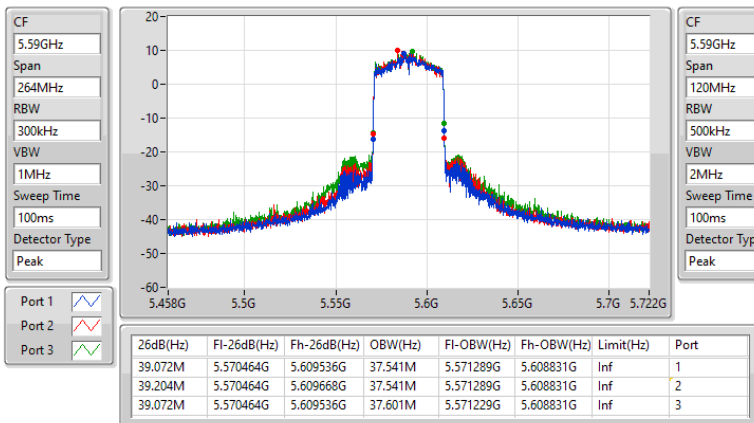
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5.47-5.725GHz_802.11be EHT40_Nss1,(MCS0)_3TX

EBW

5590MHz

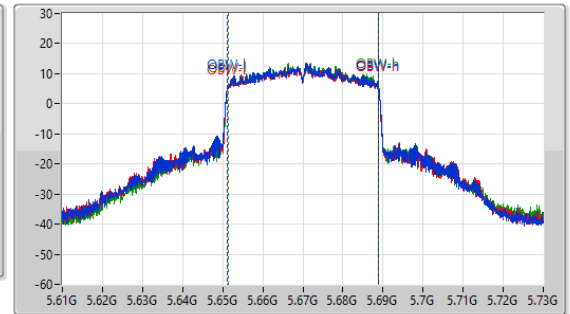
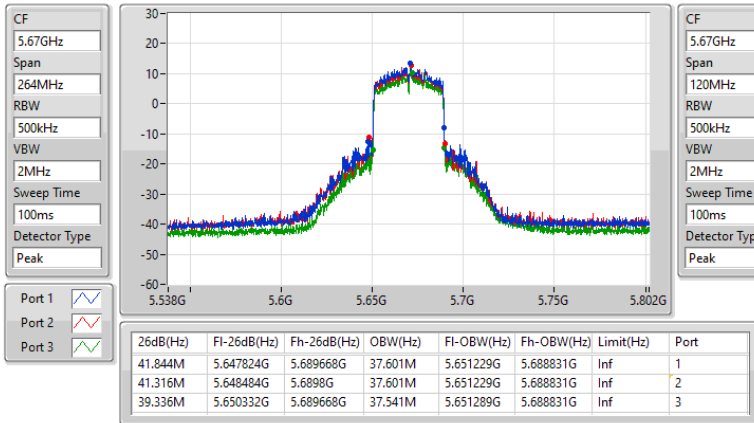




5.47-5.725GHz_802.11be EHT40_Nss1,(MCS0)_3TX

EBW

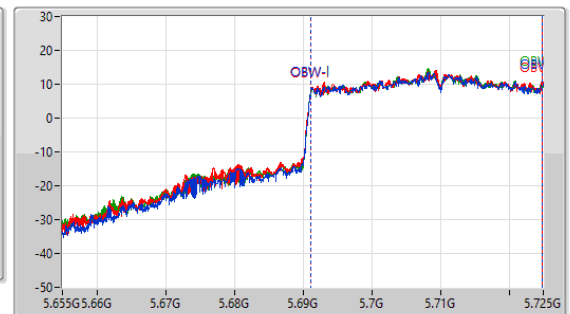
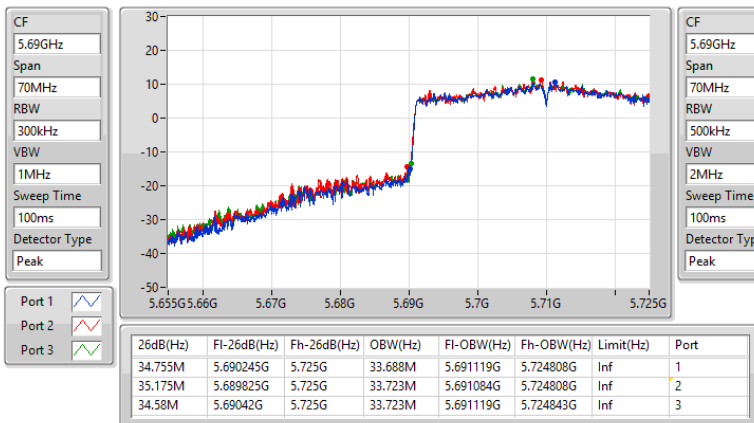
5670MHz



5.47-5.725GHz_802.11be EHT40_Nss1,(MCS0)_3TX

EBW

5710MHz Straddle 5.47-5.725GHz

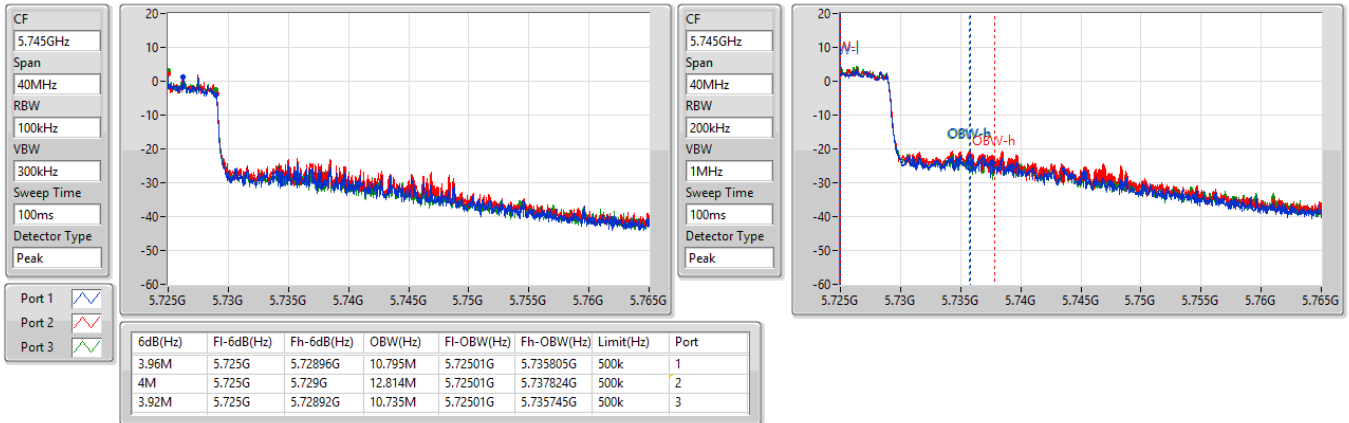




5.725-5.85GHz_802.11be EHT40_Nss1,(MCS0)_3TX

EBW

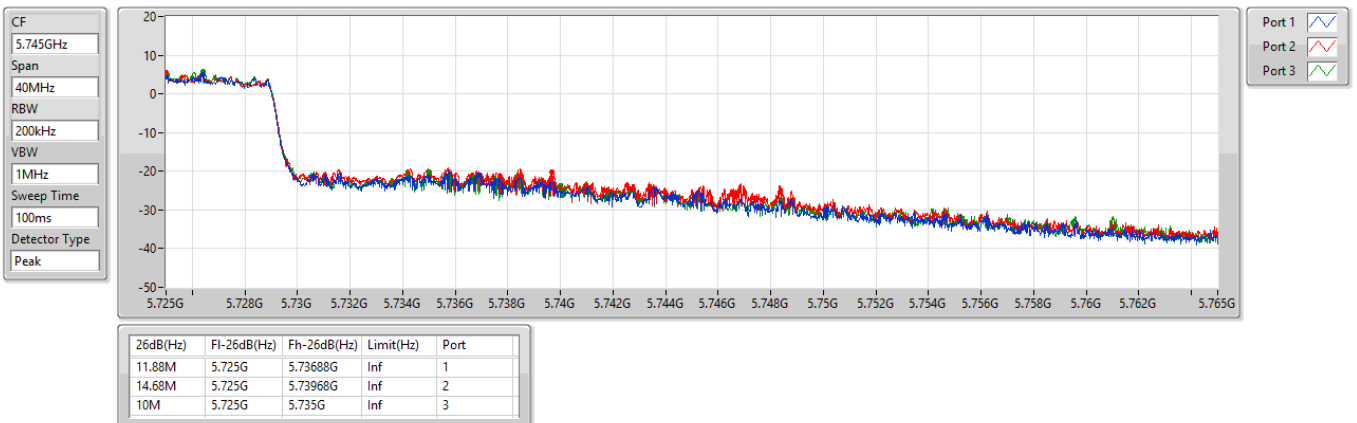
5710MHz Straddle 5.725-5.85GHz



5.725-5.85GHz_802.11be EHT40_Nss1,(MCS0)_3TX

EBW

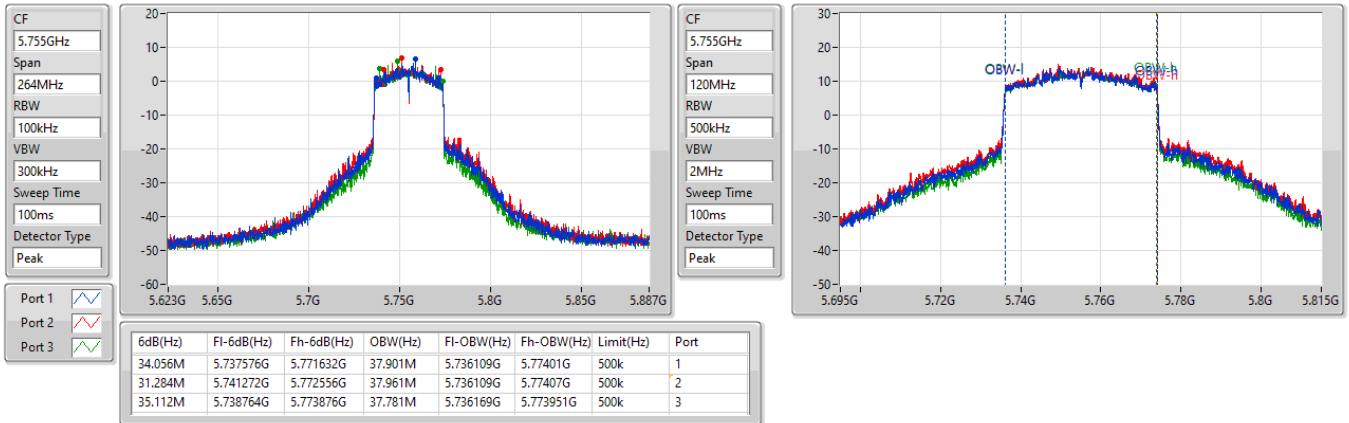
5710MHz Straddle 5.725-5.85GHz



5.725-5.85GHz_802.11be EHT40_Nss1,(MCS0)_3TX

EBW

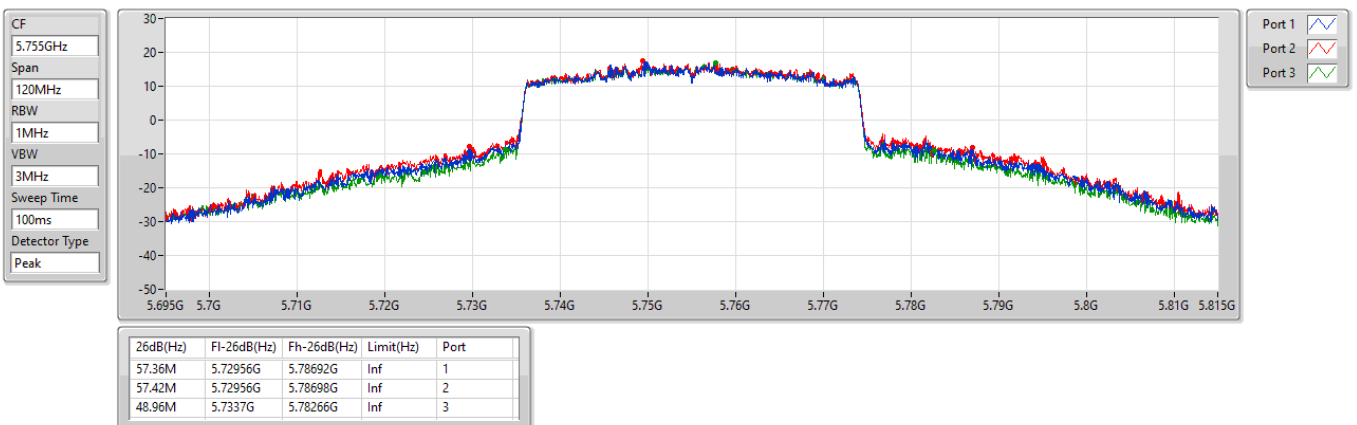
5755MHz



5.725-5.85GHz_802.11be EHT40_Nss1,(MCS0)_3TX

EBW

5755MHz

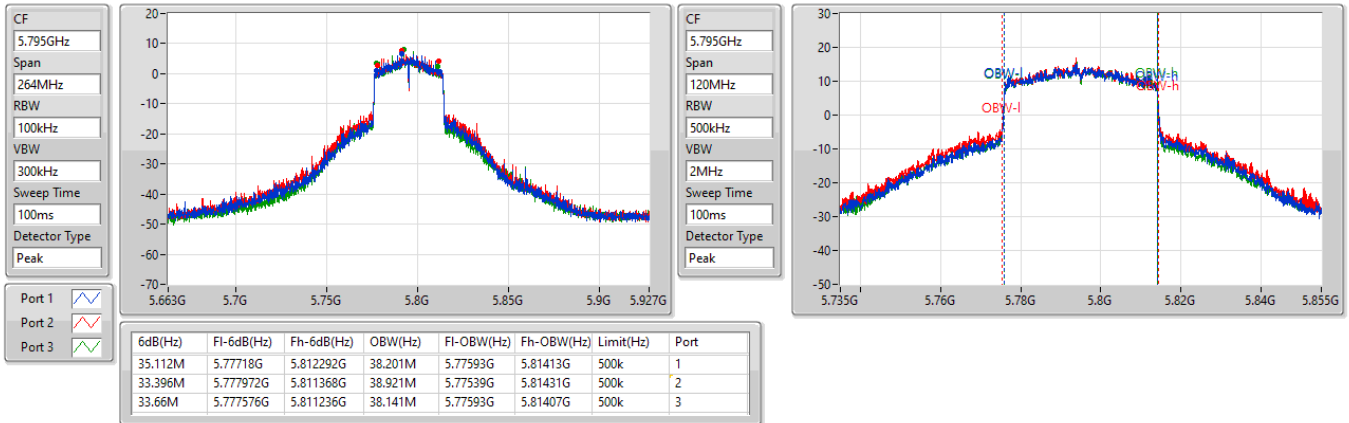




5.725-5.85GHz_802.11be EHT40_Nss1,(MCS0)_3TX

EBW

5795MHz



5.725-5.85GHz_802.11be EHT40_Nss1,(MCS0)_3TX

EBW

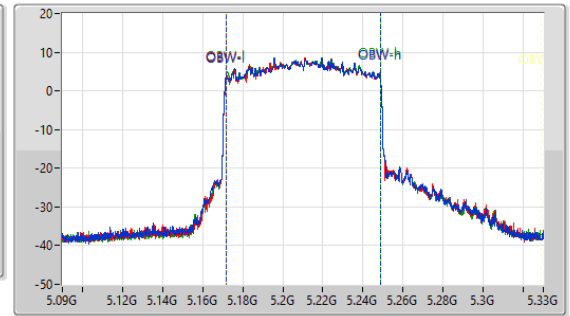
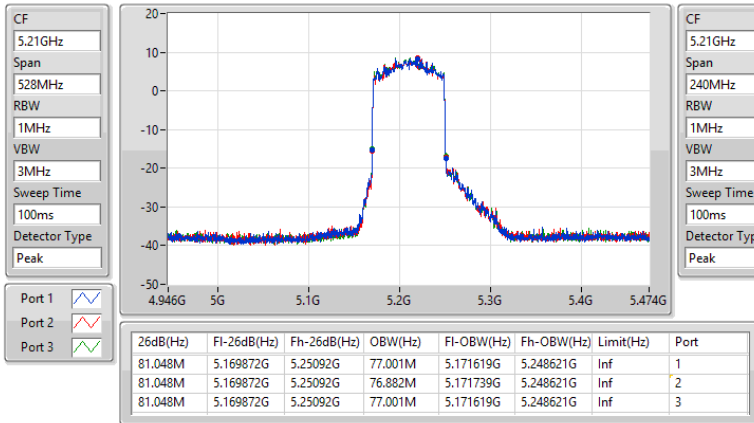
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5.15-5.25GHz_802.11be EHT80_Nss1,(MCS0)_3TX

EBW

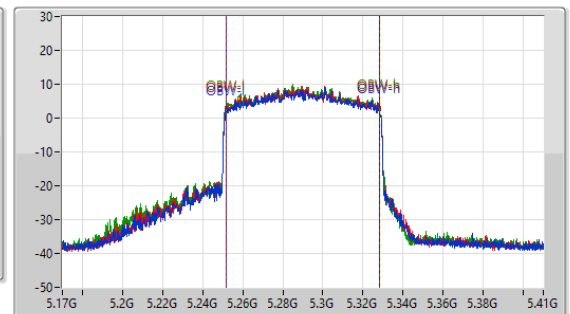
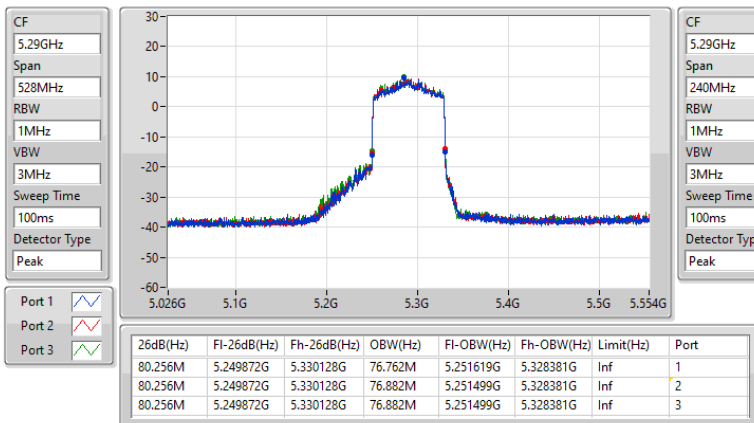
5210MHz



5.25-5.35GHz_802.11be EHT80_Nss1,(MCS0)_3TX

EBW

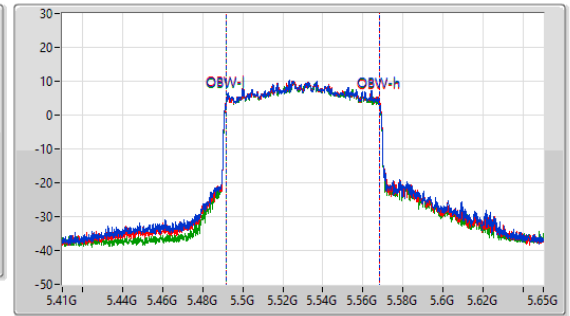
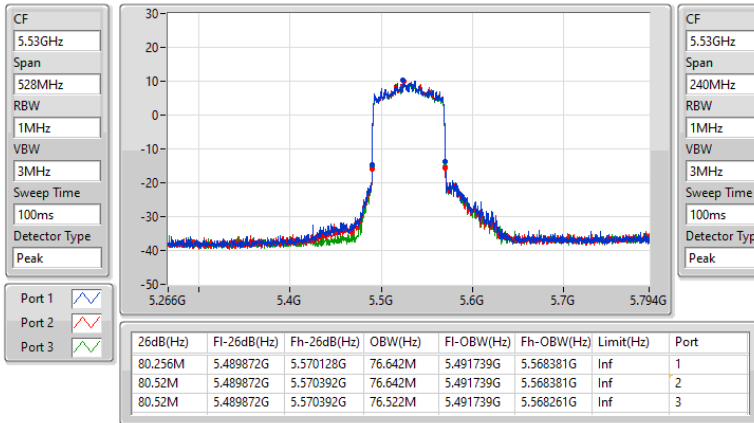
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5.47-5.725GHz_802.11be EHT80_Nss1,(MCS0)_3TX

EBW

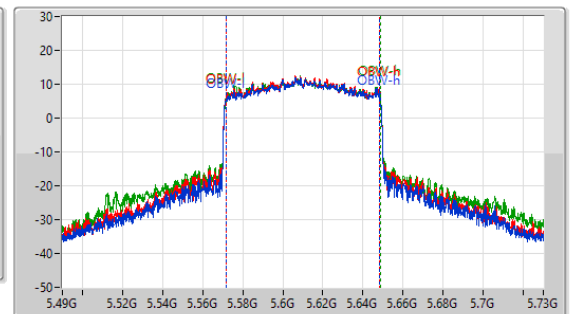
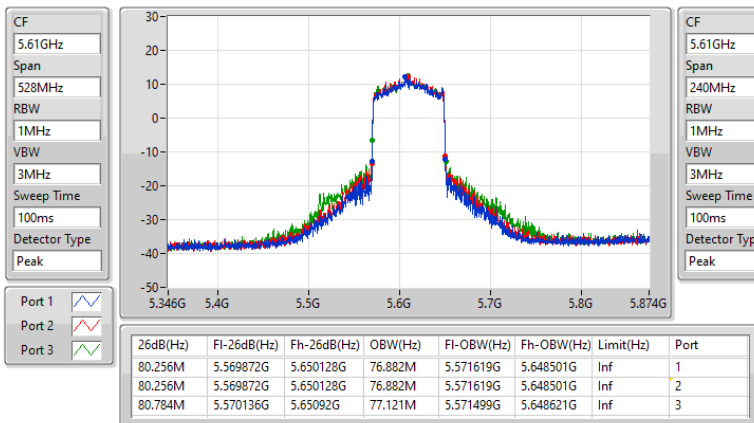
5530MHz



5.47-5.725GHz_802.11be EHT80_Nss1,(MCS0)_3TX

EBW

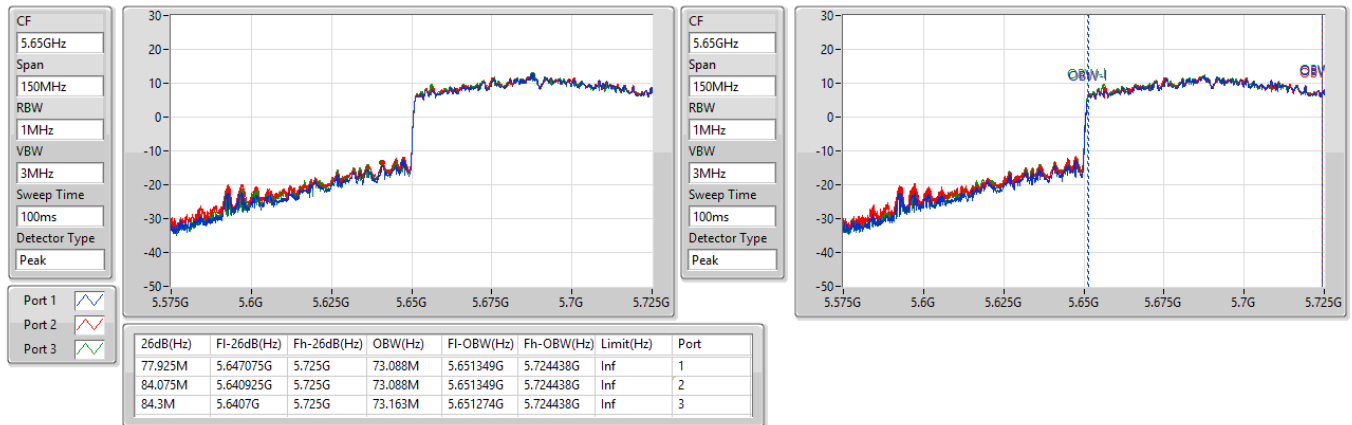
5610MHz



5.47-5.725GHz_802.11be EHT80_Nss1,(MCS0)_3TX

EBW

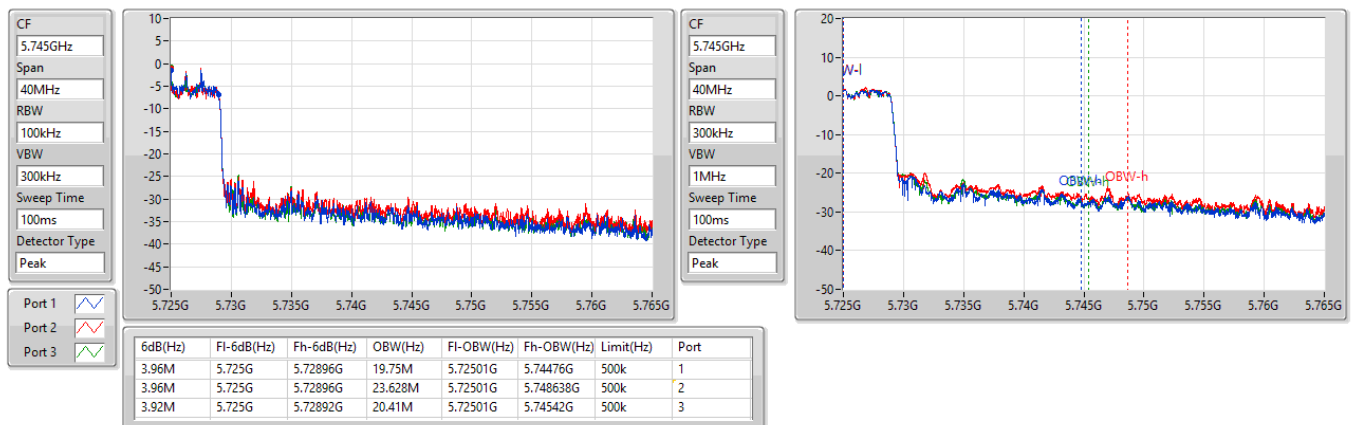
5690MHz Straddle 5.47-5.725GHz



5.725-5.85GHz_802.11be EHT80_Nss1,(MCS0)_3TX

EBW

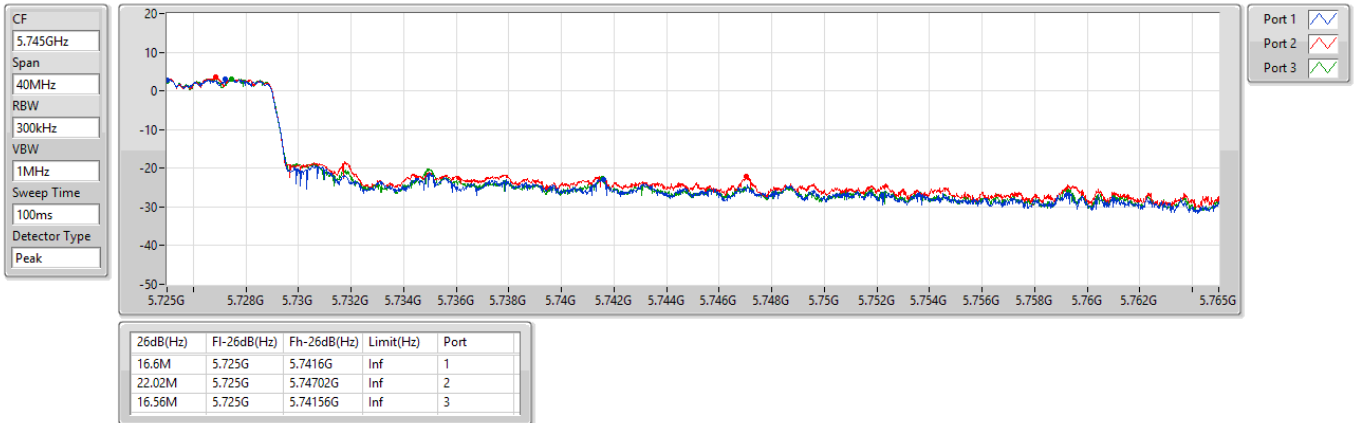
5690MHz Straddle 5.725-5.85GHz



5.725-5.85GHz_802.11be EHT80_Nss1,(MCS0)_3TX

EBW

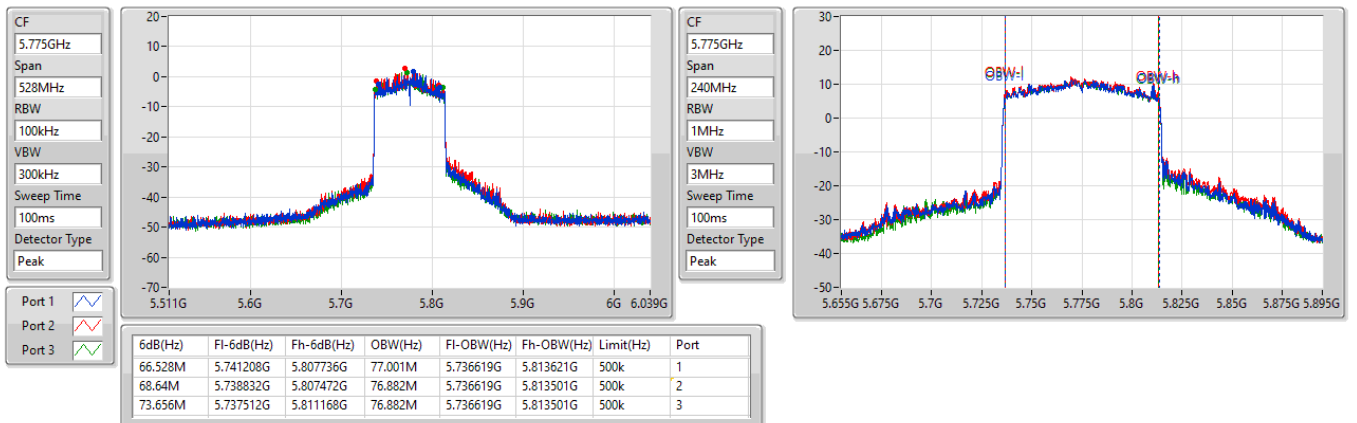
5690MHz Straddle 5.725-5.85GHz



5.725-5.85GHz_802.11be EHT80_Nss1,(MCS0)_3TX

EBW

5775MHz

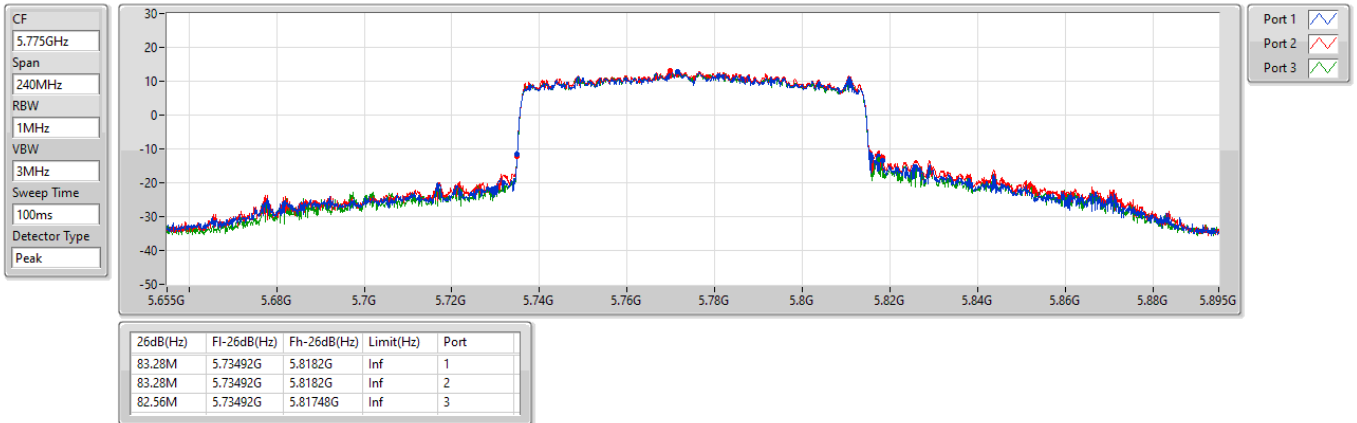




5.725-5.85GHz_802.11be EHT80_Nss1,(MCS0)_3TX

EBW

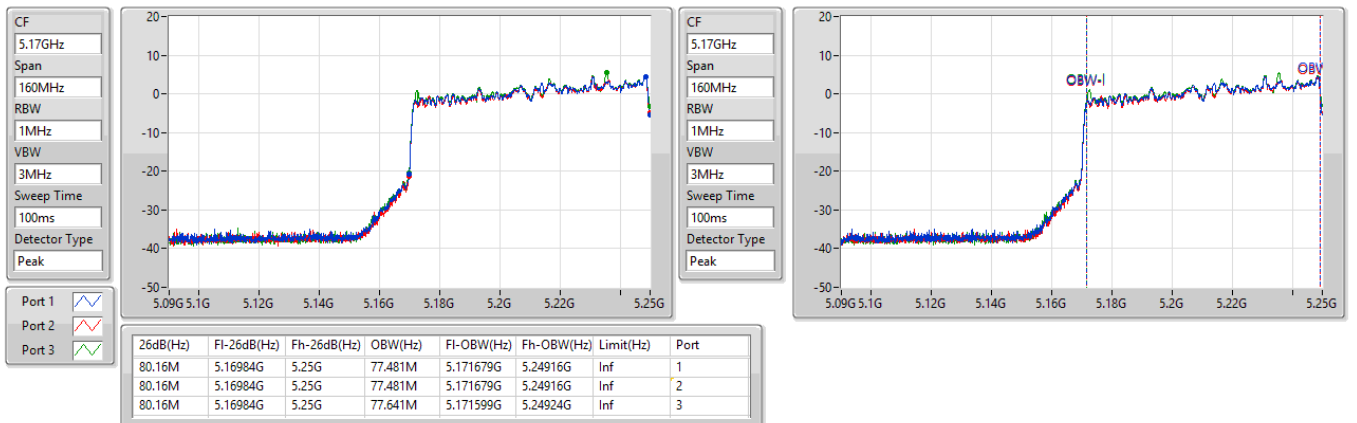
5775MHz



5.15-5.25GHz_802.11be EHT160_Nss1,(MCS0)_3TX

EBW

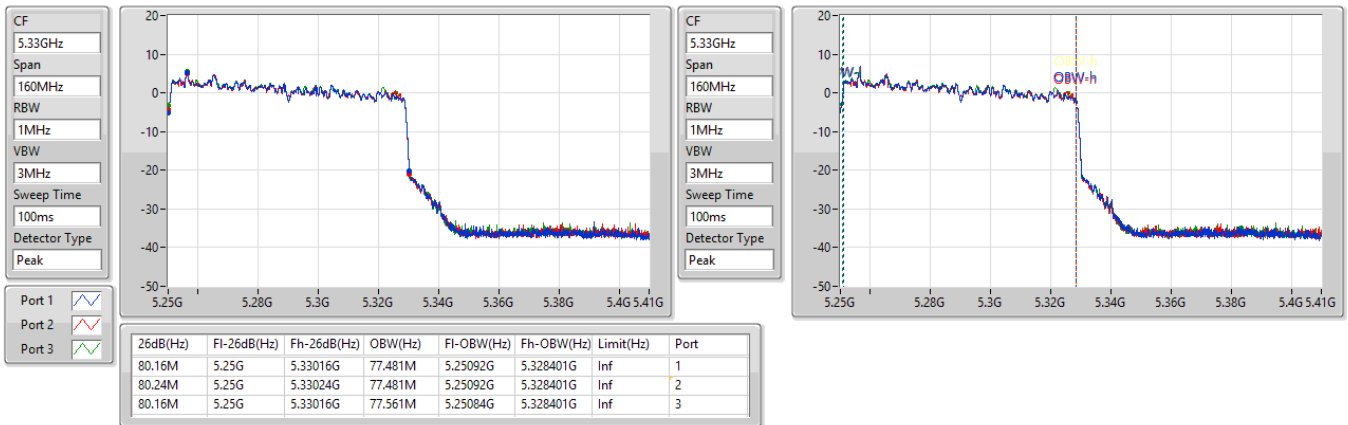
5250MHz Straddle 5.15-5.25GHz



5.25-5.35GHz_802.11be EHT160_Nss1,(MCS0)_3TX

EBW

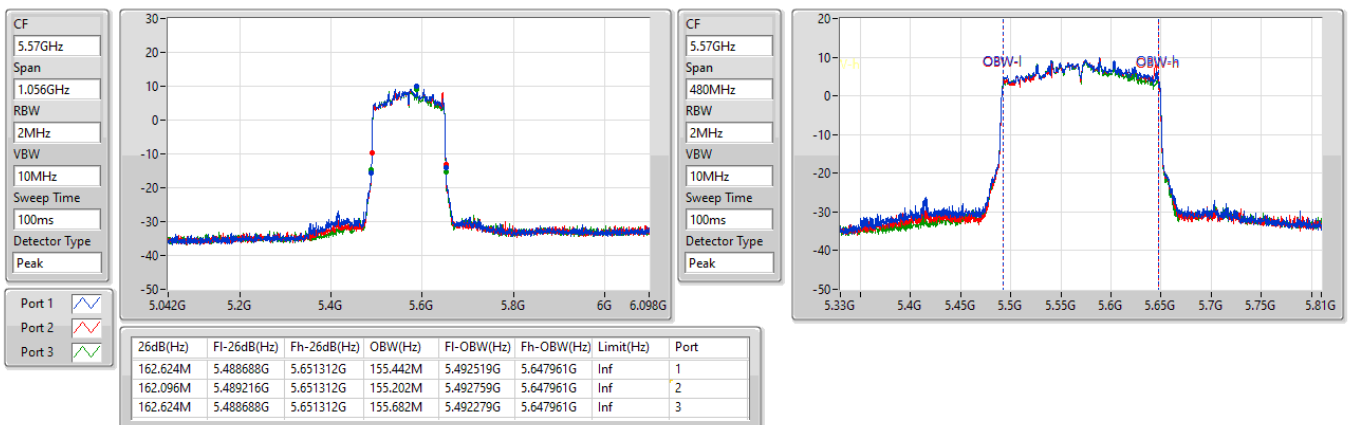
5250MHz Straddle 5.25-5.35GHz



5.47-5.725GHz_802.11be EHT160_Nss1,(MCS0)_3TX

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	-	-	-	-	-
802.11be EHT20-BF_Nss1,(MCS0)_3TX	29.502M	18.981M	19M0D1D	19.734M	18.831M
802.11be EHT40-BF_Nss1,(MCS0)_3TX	39.336M	37.601M	37M6D1D	39.072M	37.541M
802.11be EHT80-BF_Nss1,(MCS0)_3TX	79.992M	76.762M	76M8D1D	79.992M	76.762M
802.11be EHT160-BF_Nss1,(MCS0)_3TX	80.32M	77.641M	77M6D1D	80.08M	77.481M
5.25-5.35GHz	-	-	-	-	-
802.11be EHT20-BF_Nss1,(MCS0)_3TX	19.998M	18.861M	18M9D1D	19.734M	18.831M
802.11be EHT40-BF_Nss1,(MCS0)_3TX	43.164M	37.601M	37M6D1D	39.072M	37.541M
802.11be EHT80-BF_Nss1,(MCS0)_3TX	80.256M	77.001M	77M0D1D	79.728M	76.882M
802.11be EHT160-BF_Nss1,(MCS0)_3TX	80.88M	77.721M	77M7D1D	80.4M	77.401M
5.47-5.725GHz	-	-	-	-	-
802.11be EHT20-BF_Nss1,(MCS0)_3TX	21.318M	18.861M	18M9D1D	14.79M	14.348M
802.11be EHT40-BF_Nss1,(MCS0)_3TX	43.56M	37.601M	37M6D1D	34.72M	33.618M
802.11be EHT80-BF_Nss1,(MCS0)_3TX	81.048M	77.001M	77M0D1D	74.625M	72.789M
802.11be EHT160-BF_Nss1,(MCS0)_3TX	163.152M	156.162M	156MD1D	162.624M	155.442M
5.725-5.85GHz	-	-	-	-	-
802.11be EHT20-BF_Nss1,(MCS0)_3TX	18.744M	24.828M	24M8D1D	4.38M	4.558M
802.11be EHT40-BF_Nss1,(MCS0)_3TX	34.98M	39.46M	39M5D1D	3.86M	15.452M
802.11be EHT80-BF_Nss1,(MCS0)_3TX	74.976M	76.882M	76M9D1D	3.98M	21.549M

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)
802.11be EHT20-BF_Nss1,(MCS0)_3TX	-	-	-	-	-	-	-	-
5180MHz	Pass	Inf	19.8M	18.861M	19.734M	18.831M	19.734M	18.831M
5200MHz	Pass	Inf	26.664M	18.921M	25.938M	18.891M	27.72M	18.921M
5240MHz	Pass	Inf	29.502M	18.921M	25.872M	18.921M	25.608M	18.981M
5260MHz	Pass	Inf	19.866M	18.831M	19.734M	18.831M	19.866M	18.861M
5300MHz	Pass	Inf	19.866M	18.861M	19.8M	18.861M	19.866M	18.861M
5320MHz	Pass	Inf	19.866M	18.861M	19.998M	18.861M	19.866M	18.861M
5500MHz	Pass	Inf	20.13M	18.861M	21.318M	18.861M	20.394M	18.861M
5580MHz	Pass	Inf	19.8M	18.801M	19.8M	18.831M	19.734M	18.831M
5700MHz	Pass	Inf	19.866M	18.861M	19.8M	18.861M	19.866M	18.861M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	14.82M	14.363M	14.79M	14.378M	14.79M	14.348M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	4.38M	4.598M	4.4M	4.578M	4.46M	4.558M
5745MHz	Pass	500k	18.744M	22.669M	18.084M	24.828M	18.216M	20.54M
5785MHz	Pass	500k	18.216M	19.43M	18.018M	21.919M	18.744M	19.31M
5825MHz	Pass	500k	18.216M	19.79M	17.754M	22.489M	18.48M	21.139M
802.11be EHT40-BF_Nss1,(MCS0)_3TX	-	-	-	-	-	-	-	-
5190MHz	Pass	Inf	39.204M	37.601M	39.336M	37.541M	39.336M	37.541M
5230MHz	Pass	Inf	39.072M	37.601M	39.072M	37.541M	39.072M	37.541M
5270MHz	Pass	Inf	42.108M	37.601M	41.316M	37.601M	43.164M	37.601M
5310MHz	Pass	Inf	39.072M	37.601M	39.336M	37.541M	39.072M	37.601M
5510MHz	Pass	Inf	39.336M	37.541M	39.336M	37.541M	39.072M	37.481M
5590MHz	Pass	Inf	39.204M	37.601M	39.336M	37.541M	39.204M	37.601M
5670MHz	Pass	Inf	42.504M	37.601M	43.56M	37.601M	39.204M	37.481M
5710MHz Straddle 5.47-5.725GHz	Pass	Inf	40.075M	33.758M	37.8M	33.688M	34.72M	33.618M
5710MHz Straddle 5.725-5.85GHz	Pass	500k	3.92M	18.611M	3.86M	18.751M	3.92M	15.452M
5755MHz	Pass	500k	32.604M	37.841M	32.604M	37.961M	30.624M	37.721M
5795MHz	Pass	500k	34.98M	38.201M	31.812M	39.46M	34.584M	38.201M
802.11be EHT80-BF_Nss1,(MCS0)_3TX	-	-	-	-	-	-	-	-
5210MHz	Pass	Inf	79.992M	76.762M	79.992M	76.762M	79.992M	76.762M
5290MHz	Pass	Inf	80.256M	77.001M	80.256M	77.001M	79.728M	76.882M
5530MHz	Pass	Inf	80.784M	76.882M	81.048M	77.001M	81.048M	76.762M
5610MHz	Pass	Inf	79.992M	76.762M	79.728M	76.762M	80.784M	76.882M
5690MHz Straddle 5.47-5.725GHz	Pass	Inf	80.775M	72.939M	80.7M	73.013M	74.625M	72.789M
5690MHz Straddle 5.725-5.85GHz	Pass	500k	4.02M	23.588M	3.98M	22.389M	4M	21.549M
5775MHz	Pass	500k	63.624M	76.882M	74.976M	76.882M	70.224M	76.762M



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)
802.11be EHT160-BF_Nss1,(MCS0)_3TX	-	-	-	-	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	Inf	80.32M	77.561M	80.16M	77.641M	80.08M	77.481M
5250MHz Straddle 5.25-5.35GHz	Pass	Inf	80.88M	77.721M	80.64M	77.401M	80.4M	77.481M
5570MHz	Pass	Inf	163.152M	155.682M	162.624M	155.442M	162.624M	156.162M

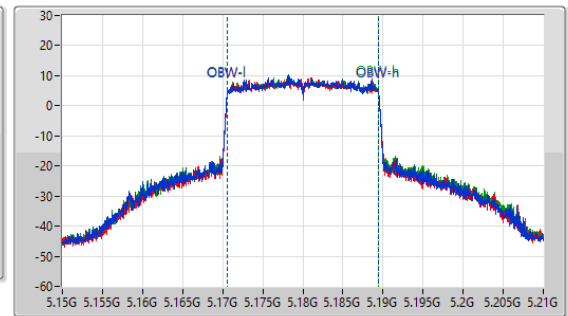
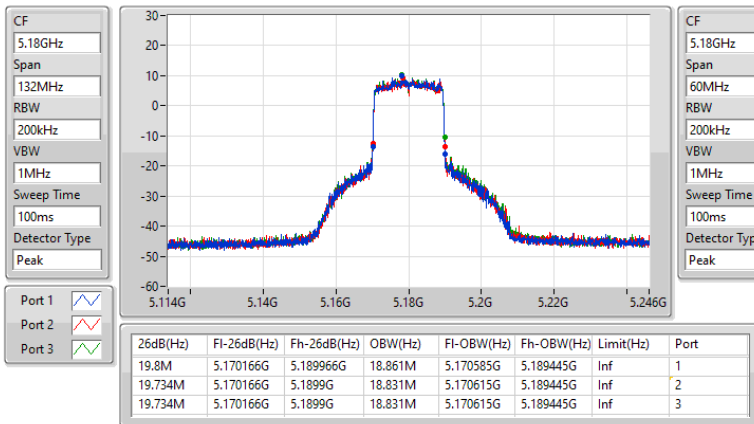
Port X-N dB = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band

Port X-OBW = Port X 99% occupied bandwidth

5.15-5.25GHz_802.11be EHT20-BF_Nss1,(MCS0)_3TX

EBW

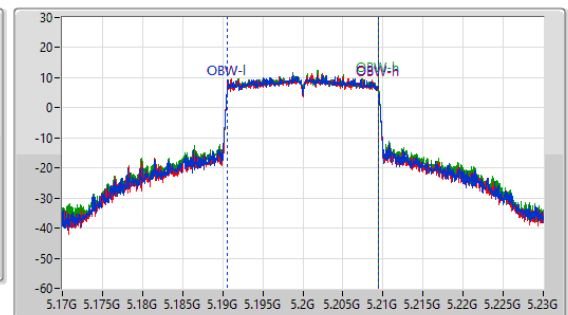
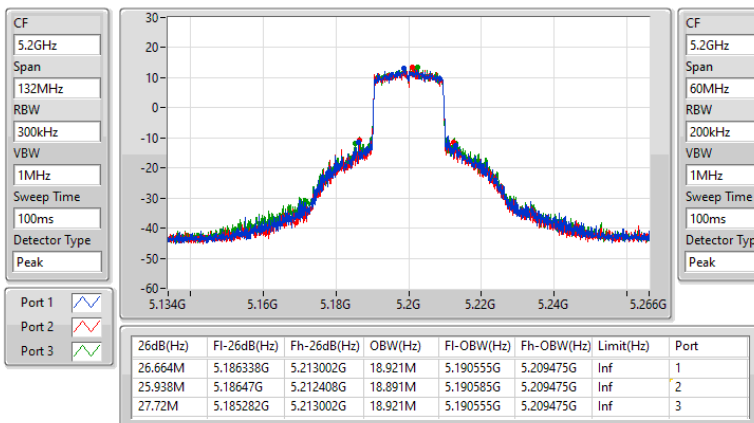
5180MHz



5.15-5.25GHz_802.11be EHT20-BF_Nss1,(MCS0)_3TX

EBW

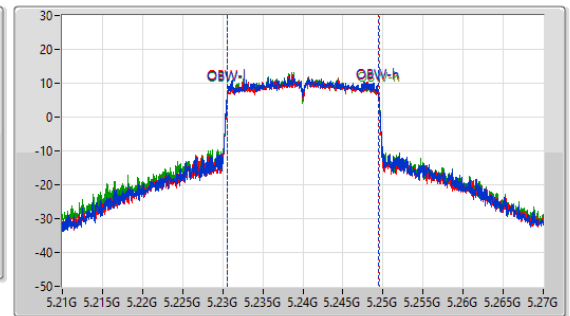
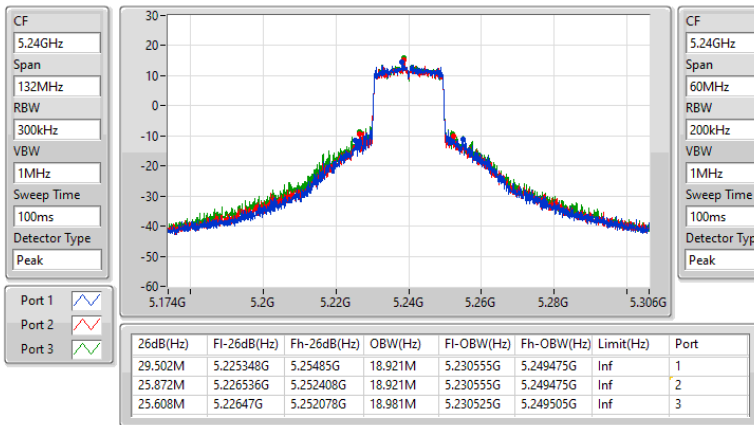
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5.15-5.25GHz_802.11be EHT20-BF_Nss1,(MCS0)_3TX

EBW

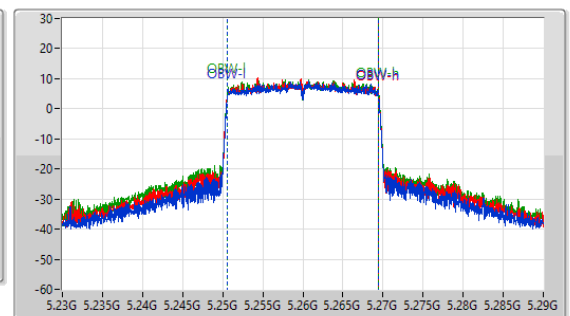
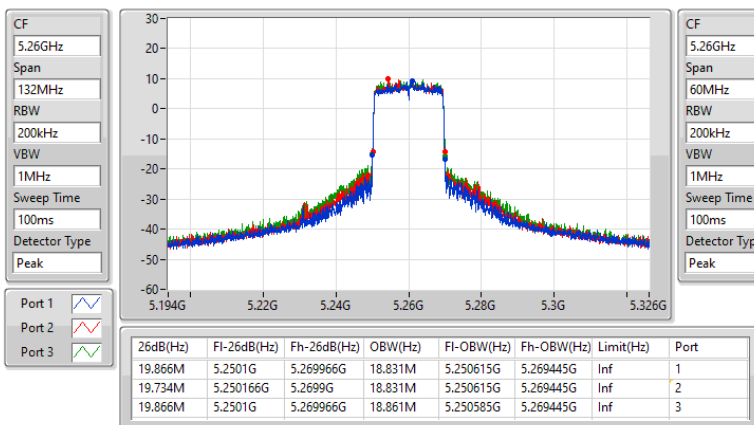
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5.25-5.35GHz_802.11be EHT20-BF_Nss1,(MCS0)_3TX

EBW

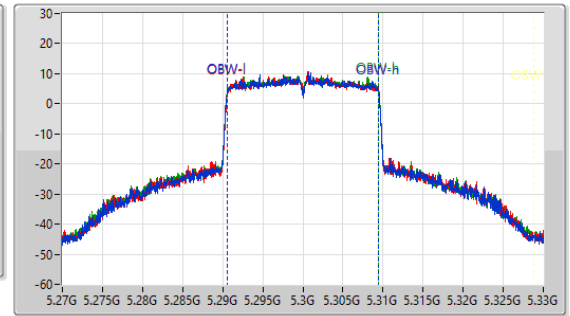
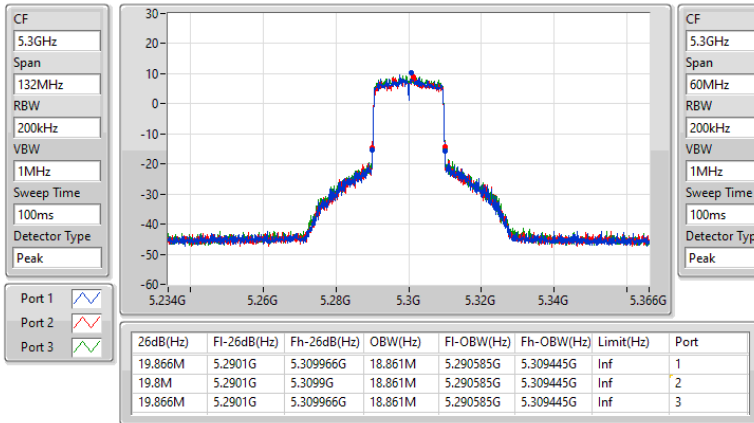
5260MHz



5.25-5.35GHz_802.11be EHT20-BF_Nss1,(MCS0)_3TX

EBW

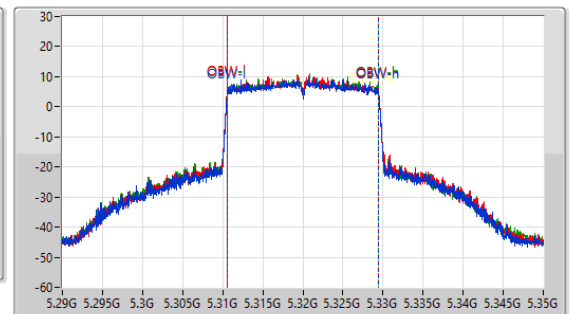
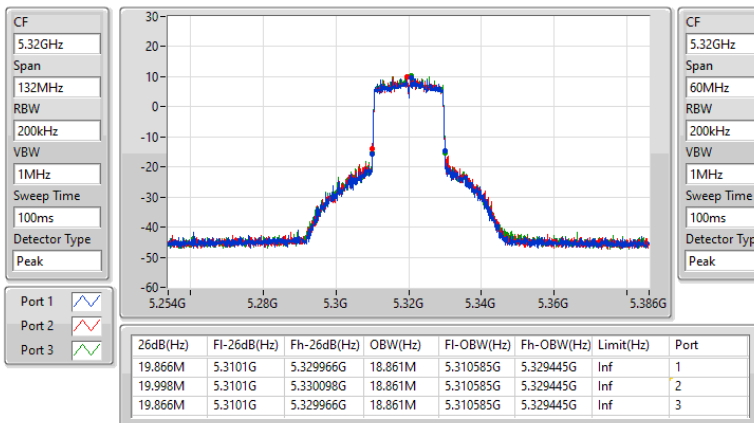
5300MHz



5.25-5.35GHz_802.11be EHT20-BF_Nss1,(MCS0)_3TX

EBW

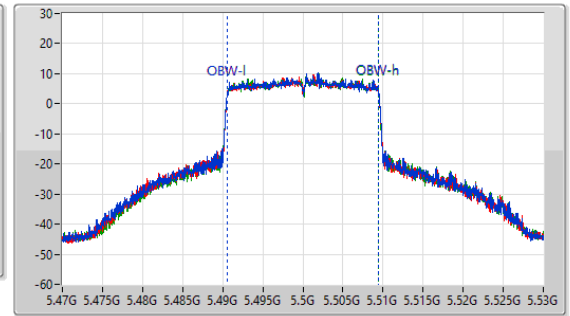
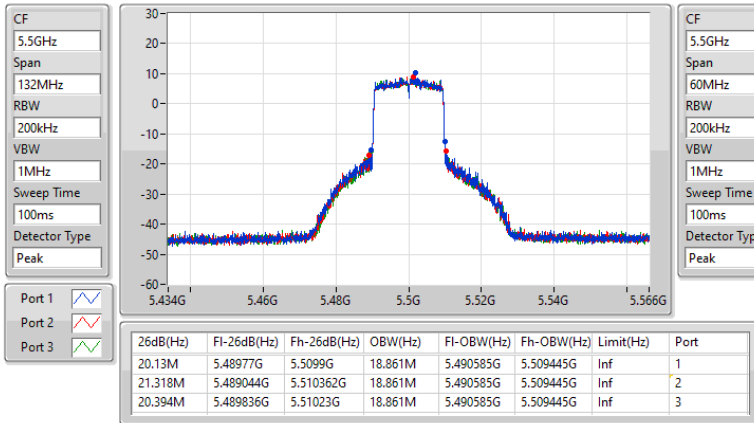
5320MHz



5.47-5.725GHz_802.11be EHT20-BF_Nss1,(MCS0)_3TX

EBW

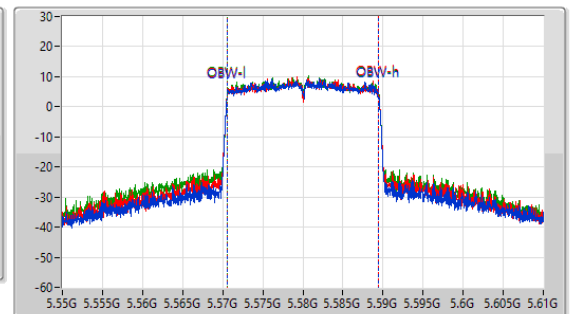
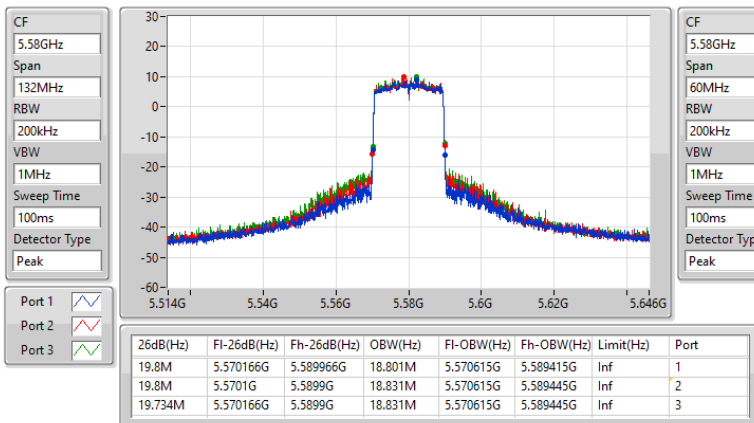
5500MHz



5.47-5.725GHz_802.11be EHT20-BF_Nss1,(MCS0)_3TX

EBW

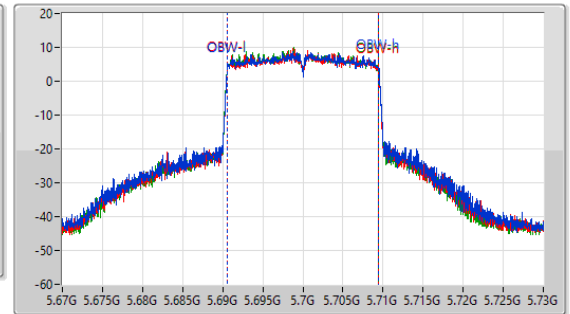
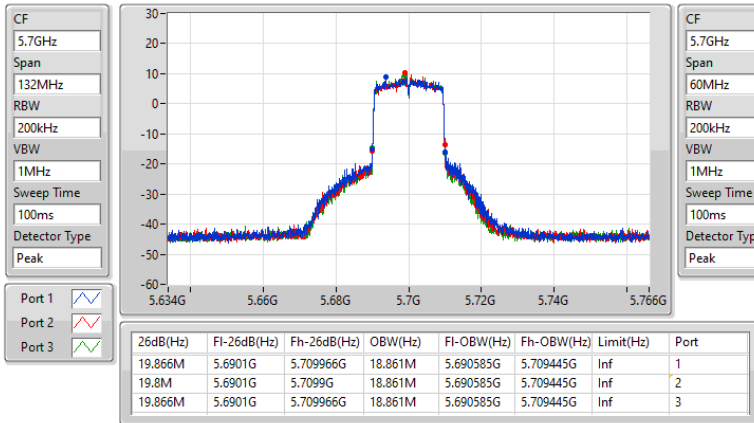
5580MHz



5.47-5.725GHz_802.11be EHT20-BF_Nss1,(MCS0)_3TX

EBW

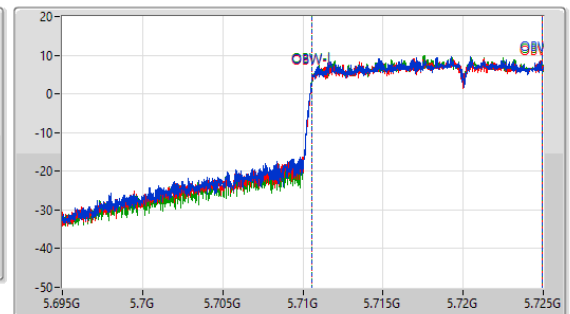
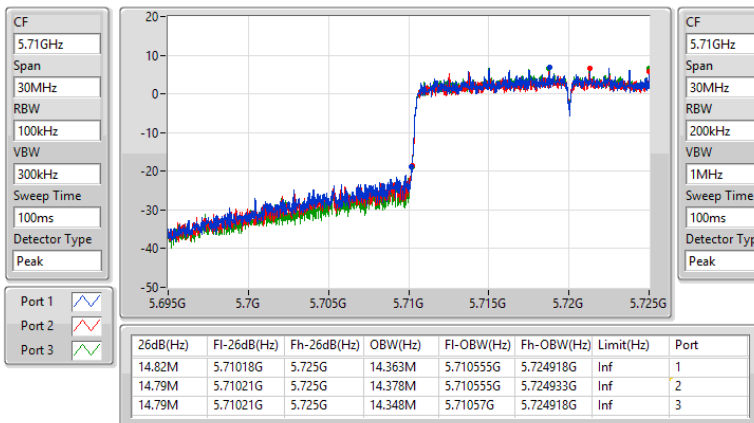
5700MHz



5.47-5.725GHz_802.11be EHT20-BF_Nss1,(MCS0)_3TX

EBW

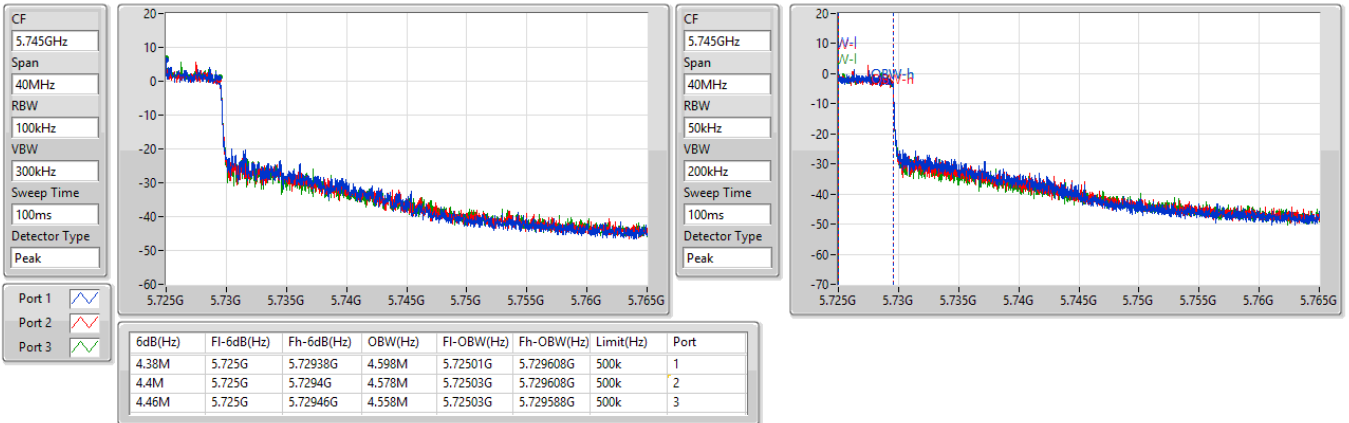
5720MHz Straddle 5.47-5.725GHz



5.725-5.85GHz_802.11be EHT20-BF_Nss1,(MCS0)_3TX

EBW

5720MHz Straddle 5.725-5.85GHz



5.725-5.85GHz_802.11be EHT20-BF_Nss1,(MCS0)_3TX

EBW

5720MHz Straddle 5.725-5.85GHz

