

Testing Laboratory
3787

RADIO TEST REPORT

FCC ID : UDX-600216020
Equipment : Cisco Wireless 9179F Series Wi-Fi 7 Access Point
Brand Name : CISCO
Model Name : CW9179F
Applicant : Cisco Systems, Inc.
170 West Tasman Drive, San Jose, CA 95134 USA
Manufacturer : Cisco Systems, Inc.
170 West Tasman Drive, San Jose, CA 95134 USA
Standard : 47 CFR FCC Part 15.407

The product was received on Nov. 29, 2024, and testing was started from Dec. 12, 2024 and completed on Apr. 25, 2025. We, Sporton International Inc. Hsinchu Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown compliance with the applicable technical standards.

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

Approved by: Sam Chen

Sporton International Inc. Hsinchu Laboratory

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History of this test report

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Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
1.1.3	15.203	Antenna Requirement	PASS	-
3.1	15.207	AC Power-line Conducted Emissions	PASS	-
3.2	15.407(a)	Emission Bandwidth	PASS	Data Referencing
3.3	15.407(a)	Maximum Equivalent Isotropically Radiated Power (E.I.R.P.)	PASS	-
-	15.407(a)	Proper Power Adjustment	N/A	Non-Dual Client Device or non-Standard Client Device w/o test
-	15.407(a)	Transmit Power Control	N/A	Non-Very Low Power Device w/o test
3.4	15.407(a)	Peak Power Spectral Density (E.I.R.P.)	PASS	-
3.5	15.407(b)	Unwanted Emissions	PASS	Data Referencing
3.5	15.407(b)	Unwanted Emissions (Mask)	PASS	-
-	15.407(d)	Contention-Based Protocol	N/A	Standard Power AP Device w/o test

Data Referencing Statement:

This report references test data from the parent device (Original Sporton Report No.: FR4N2714-02AH, FCC ID: UDX-600216010).

The variant device (FCC ID: UDX-600216020) is electrically identical to the parent device for the portions of the circuitry corresponding to the data referencing.

The differences compared to the parent device are as follows:

1. Add Smart Cover-Secure and contact Weatherizes.
2. Change to outdoor by software.
3. Change the label location.
4. Disable UWB by software.

The maximum Equivalent Isotropically Radiated Power (E.I.R.P.) of the variant device is lower than that of the parent device. Accordingly, the following items reference test data from the parent device:

1. Emission Bandwidth
2. Unwanted Emissions

The applicant takes full responsibility that the test data as referenced in FCC ID: UDX-600216010 represents compliance with the new FCC ID: UDX-600216020.

**Conformity Assessment Condition:**

1. The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacture who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.
2. The measurement uncertainty please refer to each test result in the chapter "Measurement Uncertainty".

Disclaimer:

1. The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.
2. The test configuration, test mode and test software were written in this test report are declared by the manufacturer.

Reviewed by: Sam Chen**Report Producer: Sophia Shiung**



1 General Description

1.1 Information

1.1.1 RF General Information

<Radio 1>

Frequency Range (MHz)	IEEE Std. 802.11	Ch. Frequency (MHz)	Channel Number
5925-6425	ax (HEW20)	5955-6415	1-93 [24]
6525-6875		6535-6855	117-181 [17]

Band	Mode	BWch (MHz)	Nant
UNII 5, UNII 7	802.11ax HEW20	20	1TX

**<Radio 4>**

Frequency Range (MHz)	IEEE Std. 802.11	Ch. Frequency (MHz)	Channel Number
5925-6425	ax (HEW20), be (EHT20)	5955-6415	1-93 [24]
6525-6875		6535-6855	117-181 [17]
5925-6425	ax (HEW40), be (EHT40)	5965-6405	3-91 [12]
6525-6875		6565-6845	123-179 [8]
5925-6425	ax (HEW80), be (EHT80)	5985-6385	7-87 [6]
6525-6875		6625-6785	135-167 [3]
5925-6425	ax (HEW160), be (EHT160)	6025-6345	15-79 [3]
6525-6875		6665	143 [1]
5925-6425	be (EHT320)	6105	31 [1]

Band	Mode	BWch (MHz)	Nant
UNII 5, UNII 7	802.11ax HEW20	20	1, 2, 4TX
UNII 5, UNII 7	802.11ax HEW20-BF	20	2, 4TX
UNII 5, UNII 7	802.11be EHT20	20	1, 2, 4TX
UNII 5, UNII 7	802.11be EHT20-BF	20	2, 4TX
UNII 5, UNII 7	802.11ax HEW40	40	1, 2, 4TX
UNII 5, UNII 7	802.11ax HEW40-BF	40	2, 4TX
UNII 5, UNII 7	802.11be EHT40	40	1, 2, 4TX
UNII 5, UNII 7	802.11be EHT40-BF	40	2, 4TX
UNII 5, UNII 7	802.11ax HEW80	80	1, 2, 4TX
UNII 5, UNII 7	802.11ax HEW80-BF	80	2, 4TX
UNII 5, UNII 7	802.11be EHT80	80	1, 2, 4TX
UNII 5, UNII 7	802.11be EHT80-BF	80	2, 4TX
UNII 5, UNII 7	802.11ax HEW160	160	1, 2, 4TX
UNII 5, UNII 7	802.11ax HEW160-BF	160	2, 4TX
UNII 5, UNII 7	802.11be EHT160	160	1, 2, 4TX
UNII 5, UNII 7	802.11be EHT160-BF	160	2, 4TX
UNII 5, UNII 7	802.11be EHT320	320	1, 2, 4TX
UNII 5, UNII 7	802.11be EHT320-BF	320	2, 4TX



For MRU (Static preamble puncturing):
Multi-RU:

RU-tone	Bandwidth (MHz)				6GHz Test CH
	80				UNII-5 CH7
242+242(MCS0)	242			242	V
242+242(MCS4)	242			242	V
484+242(MCS0)	484			242	V
484+242(MCS4)	484			242	V

RU-tone	Bandwidth (MHz)				6GHz Test CH
	160				UNII-5 CH15
996+484(MCS0)	484		996		V
996+484(MCS4)	484		996		V
484+3x242(MCS0)	484	242	242	242	V
484+3x242(MCS4)	484	242	242	242	V
484+484(MCS0)	484			484	V
484+484(MCS4)	484			484	V

RU-tone	Bandwidth (MHz)				6GHz Test CH
	320				UNII-5 CH31
3x996(MCS0)	996	996	996		V
3x996(MCS4)	996	996	996		V
2x996+484(MCS0)		484	996	996	--
2x996+484(MCS4)		484	996	996	--
2x996+484(MCS0)	996	996		484	V
2x996+484(MCS4)	996	996		484	V
2x996(MCS0)	996			996	V
2x996(MCS4)	996			996	V

Puncturing:

RU-tone	Configuration	Bandwidth (MHz)				6GHz Test CH
		80				UNII-5 CH7
484+242	1		242	484		--
	2	242		484		V
	3		484		242	V
	4		484		242	V

RU-tone	Configuration	Bandwidth (MHz)				6GHz Test CH
		160				UNII-5 CH15
996+484	1		484	996		--
	2	484		996		V
	3		996		484	V
	4		996		484	V
996+484+242	1		242	484	996	--
	2	242		484	996	V
	3		484		996	V
	4		484		996	V
	5		996		484	V
	6		996	242	484	V
	7		996	484	242	V
	8		996	484	242	V

RU-tone	Configuration	Bandwidth (MHz)				6GHz Test CH
		320				UNII-5 CH31
2x996+484	1		484	996	996	--
	2	484		996	996	V
	3		996	484	996	V
	4		996	484	996	V
	5		996		484	V
	6		996		484	V
	7			484	996	--
	8		484	996	996	--
	9		996		484	--
	10		996	484	996	--
	11		996	996	484	--
	12		996	996	484	--
3x996	1		996	996	996	--
	2		996	996	996	V
	3		996	996	996	V
	4		996	996	996	V
3x996+484	1		484	996	996	--
	2	484		996	996	V
	3		996	484	996	V
	4		996	484	996	V
	5		996		484	V
	6		996	996	484	V
	7		996	996	484	V
	8		996	996	484	V

**Note:**

- ♦ HEW20, HEW40, HEW80 and HEW160 use a combination of OFDMA-BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM modulation.
- ♦ EHT20, EHT40, EHT80 and EHT160, EHT320 use a combination of OFDMA-BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM, 4096QAM modulation.
- ♦ BWch is the nominal channel bandwidth.

1.1.2 Worst case of MRU (Static preamble puncturing) evaluation procedure

1.	Complete test Full RU BE & PSD
2.	Measure the PSD of each MRU (static preamble puncturing) by conducted method and it is less than the Full RU conducted PSD.
3.	Measure the Band edge emission of each MRU (static preamble puncturing) by conducted method and find out the MRU (static preamble puncturing) worst case configuration.
4.	Follow step 3 to find the worst MRU (static preamble puncturing) configuration and perform radiated PSD testing.
5.	Follow step 3 to find the worst MRU (static preamble puncturing) configuration and perform radiated unwanted emission testing.
6.	Confirm whether the worst MRU (static preamble puncturing) configuration setting in steps 2 and step 4 is the same. If there is a channel where the setting drops due to the test in step 4, the PSD of MRU (static preamble puncturing) needs to be retested.
7.	Use worst configuration of MRU (static preamble puncturing) and perform MASK measurements by conducted method.

**1.1.3 Antenna Information****<Internal Antenna>**

Ant.	Brand	Model Name	Antenna Type	Connector	Support
1	WNC	57XPAD15.LAU	Dipole	U.FL	Radio 1
2	WNC	57XPAD15.MAU	Dipole	U.FL	
3	WNC	57XPAD15.AAU	Dipole	U.FL	Radio 2
4	WNC	57XPAD15.BAU	Dipole	U.FL	
5	WNC	57XPAD15.CAU	Dipole	U.FL	
6	WNC	57XPAD15.DAU	Dipole	U.FL	
7	WNC	57XPAD15.HAU	Dipole	U.FL	Radio 3
8	WNC	57XPAD15.HAU	Dipole	U.FL	
9	WNC	57XPAD15.IAU	Dipole	U.FL	
10	WNC	57XPAD15.IAU	Dipole	U.FL	
11	WNC	57XPAD15.JAU	Dipole	U.FL	Radio 4
12	WNC	57XPAD15.JAU	Dipole	U.FL	
13	WNC	57XPAD15.KAU	Dipole	U.FL	
14	WNC	57XPAD15.KAU	Dipole	U.FL	
15	WNC	57XPAD15.EAU	Dipole	U.FL	Radio 5
16	WNC	57XPAD15.EAU	Dipole	U.FL	
17	WNC	57XPAD15.FAU	Dipole	U.FL	
18	WNC	57XPAD15.FAU	Dipole	U.FL	
19	WNC	57XPAD15.NAU	Loop	U.FL	Radio 6
20	WNC	57XPAD15.PAU	PIFA	U.FL	Radio 7
21	WNC	57XPAD15.0DG	PIFA	U.FL	
22	WNC	57XPAD15.OAU	Patch	U.FL	Radio 8
23	WNC	57XPAD15.OAU	Patch	U.FL	

Ant.	Port	Gain (dBi)					Support
		WLAN 2.4GHz	WLAN 5GHz		WLAN 6GHz		
			UNII 1~2A	UNII 2C~3	UNII 5	UNII 7	
1	1	3.7	4.9	6.1	5.0	5.8	Radio 1
2	2	5.1	4.5	5.2	5.5	6.4	
3	1	5.0	-	-	-	-	Radio 2
4	2	4.3	-	-	-	-	
5	3	5.1	-	-	-	-	
6	4	5.3	-	-	-	-	



Ant.	Port	Gain (dBi)					Support
		WLAN 5GHz					
		Mode	UNII 1	UNII 2A	UNII 2C	UNII 3	
7	3	Boresight	9.3	9.4	9.7	9.8	Radio 3
		Steering	9.4	9.4	10.0	10.0	
8	4	Boresight	10.3	10.3	10.6	10.2	
		Steering	10.2	10.2	10.6	10.3	
9	2	Boresight	9.6	9.9	10.3	9.9	
		Steering	9.9	9.8	10.3	10.1	
10	1	Boresight	10.4	10.6	10.7	10.4	
		Steering	10.3	10.7	10.6	10.4	

Ant.	Port	Gain (dBi)			Support
		WLAN 6GHz			
		Mode	UNII 5	UNII 7	
11	3	Narrow Beam	9.2	9.0	Radio 4
		Wide Beam	5.4	5.3	
12	4	Narrow Beam	9.2	8.7	
		Wide Beam	5.1	5.2	
13	2	Narrow Beam	10.0	9.8	
		Wide Beam	6.4	6.5	
14	1	Narrow Beam	9.8	10.1	
		Wide Beam	5.6	6.2	

Ant.	Port	Gain (dBi)						Support
		WLAN 5GHz			Bluetooth / Zigbee	UWB	GPS	
		Mode	UNII 1	UNII 2A				
15	2	Boresight	8.6	8.8	-	-	-	Radio 5
		Steering	8.5	9.0	-	-	-	
16	1	Boresight	9.4	9.4	-	-	-	
		Steering	9.4	9.4	-	-	-	
17	4	Boresight	8.7	9.3	-	-	-	
		Steering	8.8	9.2	-	-	-	
18	3	Boresight	8.5	9.0	-	-	-	
		Steering	8.5	9.0	-	-	-	
19	1	-	-	-	6.1	-	-	Radio 6
20	1	-	-	-	-	-	3.8	Radio 7
21	1	-	-	-	-	-	3.5	
22	2	-	-	-	-	8.2	-	Radio 8
23	1	-	-	-	-	8.6	-	


<External Antenna>

Ant.	Port	Brand	Model Name	Antenna Type	Connector	Support
1	1~4	CISCO	AIR-ANT2588P4M-NS	(Panel) Dual-polarized directional	N-Female Bulkhead	Radio 2, Radio 5
2	1~4	CISCO	AIR-ANT2566D4M-R	(Patch) Dual-Band Polarization-Diverse Directional Array	RP-TNC (with coupling ring)	
3	1~4	CISCO	AIR-ANT2566D4M-RS	(Patch) Dual-Band Polarization-Diverse Directional Array	RP-TNC (with coupling ring)	
4	1~4	CISCO	AIR-ANT2566P4W-R	(Patch) 4-element dual-band MIMO	RP-TNC	
5	1~4	CISCO	AIR-ANT2566P4W-RS	(Patch) 4-element dual-band MIMO	RP-TNC	
6	1~4	CISCO	CW-ANT-T-D3-N	Dipole	RP-TNC	Radio 7
7	1	CISCO	CW-ANT-GPS1-M-00	OMNI	MMCX	

Ant.	Gain (dBi)					Support
	Pol	WLAN 2.4GHz				
		Peak Gain	Internal Cable Loss	External Cable Loss	Net Gain	
1	V-Pol*2	9.1	0.83	0.5	7.77	Radio 2
	H-Pol*2	7.1	0.83		5.77	
2~3	V-Pol*2	6	0.83	-	5.17	
	H-Pol*2	6	0.83	-	5.17	
4~5	V-Pol*4	6	0.83	-	5.17	
6	-	6	0.83	-	5.17	

Ant.	Gain (dBi)					Support
	Pol	WLAN 5GHz				
		Peak Gain	Internal Cable Loss	External Cable Loss	Net Gain	
1	V-Pol*2	9.6	1.29	0.8	7.51	Radio 5
	H-Pol*2	7.8	1.29		5.71	
2~3	V-Pol*2	6	1.29	-	4.71	
	H-Pol*2	6	1.29	-	4.71	
4~5	V-Pol*4	6	1.29	-	4.71	
6	-	7.5	1.29	-	6.21	

Ant.	Gain (dBi)	Support
	GPS	
7	5	Radio 7

Note 1: The Manufacturer declared that the internal Ant. 22~23 (Radio 8) will not function when the EUT is used.

Note 2: The above information was declared by manufacturer.

Note 3: For external Ant. 1~6:

For radiated measurement: The external Ant. 1, 5 and 6 with the highest antenna gain for each type were selected for testing.

For conducted measurement:

NonTXBF power: The external Ant. 1 with the highest antenna gain was selected for testing.

NonTXBF PSD / TXBF power & PSD:

2.4GHz: The external Ant. 4 with the highest antenna array gain was selected for testing.

5GHz: The external Ant. 6 with the highest antenna array gain was selected for testing.

Note 4: Directional gain information

Type	Maximum Output Power	Power Spectral Density
Non-BF	Directional gain = Max.gain + array gain. For power measurements on IEEE 802.11 devices Array Gain = 0 dB (i.e., no array gain) for N ANT ≤ 4	$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$
BF	$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$	$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$

Ex.

Directional Gain (NSS1) formula :

$$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$$

$$NSS1(g1,1) = 10^{G1/20} ; NSS1(g1,2) = 10^{G2/20} ; NSS1(g1,3) = 10^{G3/20} ; NSS1(g1,4) = 10^{G4/20}$$

$$g_{j,k} = (NSS1(g1,1) + NSS1(g1,2) + NSS1(g1,3) + NSS1(g1,4))^2$$

$$DG = 10 \log[(NSS1(g1,1) + NSS1(g1,2) + NSS1(g1,3) + NSS1(g1,4))^2 / N_{ANT}] \Rightarrow 10$$

$$\log[(10^{G1/20} + 10^{G2/20} + 10^{G3/20} + 10^{G4/20})^2 / N_{ANT}]$$

Where;

For nonTXBF power:

Radio	Mode		Max Gain (dBi)				DG (dBi)	Remark
			G1	G2	G3	G4		
2	2.4G External	2TX	7.77	5.77	-	-	7.77	Cross-Polarized Antenna
		4TX	7.77	5.77	7.77	5.77	7.77	
	2.4G Internal	2TX	5	4.3	-	-	5	
		4TX	5	4.3	5.1	5.3	5.3	
3	5G UNII 1 (Note 5)	2TX	10.4	9.9	-	-	10.4	
		4TX	10.4	9.9	9.4	10.3	10.4	
	5G UNII 1 (Boresight)	2TX	10.4	9.6	-	-	10.4	
		4TX	10.4	9.6	9.3	10.3	10.4	
	5G UNII 2A (Note 5)	2TX	10.7	9.9	-	-	10.7	
		4TX	10.7	9.9	9.4	10.3	10.7	
	5G UNII 2A (Boresight)	2TX	10.6	9.9	-	-	10.6	
		4TX	10.6	9.9	9.4	10.3	10.6	
	5G UNII 2C (Note 5)	2TX	10.7	10.3	-	-	10.7	
		4TX	10.7	10.3	10	10.6	10.7	
	5G UNII 2C (Boresight)	2TX	10.7	10.3	-	-	10.7	
		4TX	10.7	10.3	9.7	10.6	10.7	
	5G UNII 2C (Steering)	2TX	10.6	10.3	-	-	10.6	
		4TX	10.6	10.3	10	10.6	10.6	



Radio	Mode		Max Gain (dBi)				DG (dBi)	Remark
			G1	G2	G3	G4		
3	5G UNII 3 (Note 5)	2TX	10.4	10.1	-	-	10.4	Cross-Polarized Antenna
		4TX	10.4	10.1	10	10.3	10.4	
	5G UNII 3 (Boresight)	2TX	10.4	9.9	-	-	10.4	
		4TX	10.4	9.9	9.8	10.2	10.4	
	5G UNII 3 (Steering)	2TX	10.4	10.1	-	-	10.4	
		4TX	10.4	10.1	10	10.3	10.4	
4	6G UNII 5 (Narrow Beam)	2TX	9.8	10	-	-	10	
		4TX	9.8	10	9.2	9.2	10	
	6G UNII 5 (Wide Beam)	2TX	5.6	6.4	-	-	6.4	
		4TX	5.6	6.4	5.4	5.1	6.4	
	6G UNII 7 (Narrow Beam)	2TX	10.1	9.8	-	-	10.1	
		4TX	10.1	9.8	9	8.7	10.1	
	6G UNII 7 (Wide Beam)	2TX	6.2	6.5	-	-	6.5	
		4TX	6.2	6.5	5.3	5.2	6.5	
5	5G UNII 1~2A External	2TX	7.51	5.71	-	-	7.51	
		4TX	7.51	5.71	7.51	5.71	7.51	
	5G UNII 1 Internal (Note 5)	2TX	9.4	8.6	-	-	9.4	
		4TX	9.4	8.6	8.5	8.8	9.4	
	5G UNII 1 Internal (Boresight)	2TX	9.4	8.6	-	-	9.4	
		4TX	9.4	8.6	8.5	8.7	9.4	
	5G UNII 1 Internal (Steering)	2TX	9.4	8.5	-	-	9.4	
		4TX	9.4	8.5	8.5	8.8	9.4	
	5G UNII 2A Internal (Note 5)	2TX	9.4	9	-	-	9.4	
		4TX	9.4	9	9	9.3	9.4	
	5G UNII 2A Internal (Boresight)	2TX	9.4	8.8	-	-	9.4	
		4TX	9.4	8.8	9	9.3	9.4	
	5G UNII 2A Internal (Steering)	2TX	9.4	9	-	-	9.4	
		4TX	9.4	9	9	9.2	9.4	


For nonTXBF PSD / TXBF power & PSD:

Radio	Mode		Max Gain (dBi)				DG (dBi)	Remark
			G1	G2	G3	G4		
2	2.4G External	2TX	5.17	5.17	-	-	8.18	-
		4TX	5.17	5.17	5.17	5.17	11.19	
	2.4G Internal	2TX	5	4.3	-	-	5	Cross-Polarized Antenna
		4TX	5	4.3	5.1	5.3	7.95	
3	5G UNII 1 (Note 5)	2TX	10.4	9.9	-	-	10.4	
		4TX	10.4	9.9	9.4	10.3	13.02	
	5G UNII 1 (Boresight)	2TX	10.4	9.6	-	-	10.4	
		4TX	10.4	9.6	9.3	10.3	12.93	
	5G UNII 2A (Note 5)	2TX	10.7	9.9	-	-	10.7	
		4TX	10.7	9.9	9.4	10.3	13.11	
	5G UNII 2A (Boresight)	2TX	10.6	9.9	-	-	10.6	
		4TX	10.6	9.9	9.4	10.3	13.08	
	5G UNII 2C (Note 5)	2TX	10.7	10.3	-	-	10.7	
		4TX	10.7	10.3	10	10.6	13.42	
	5G UNII 2C (Boresight)	2TX	10.7	10.3	-	-	10.7	
		4TX	10.7	10.3	9.7	10.6	13.35	
	5G UNII 2C (Steering)	2TX	10.6	10.3	-	-	10.6	
		4TX	10.6	10.3	10	10.6	13.31	
	5G UNII 3 (Note 5)	2TX	10.4	10.1	-	-	10.4	
		4TX	10.4	10.1	10	10.3	13.21	
4	6G UNII 5 (Narrow Beam)	2TX	9.8	10	-	-	10	
		4TX	9.8	10	9.2	9.2	12.57	
	6G UNII 5 (Wide Beam)	2TX	5.6	6.4	-	-	6.4	
		4TX	5.6	6.4	5.4	5.1	8.66	
	6G UNII 7 (Narrow Beam)	2TX	10.1	9.8	-	-	10.1	
		4TX	10.1	9.8	9	8.7	12.45	
	6G UNII 7 (Wide Beam)	2TX	6.2	6.5	-	-	6.5	
		4TX	6.2	6.5	5.3	5.2	8.85	
5	5G UNII 1~2A External	2TX	6.21	6.21	-	-	9.22	-
		4TX	6.21	6.21	6.21	6.21	12.23	
	5G UNII 1 Internal (Note 5)	2TX	9.4	8.6	-	-	9.4	Cross-Polarized Antenna
		4TX	9.4	8.6	8.5	8.8	12.19	
	5G UNII 1 Internal (Boresight)	2TX	9.4	8.6	-	-	9.4	
		4TX	9.4	8.6	8.5	8.7	11.82	
	5G UNII 1 Internal (Steering)	2TX	9.4	8.5	-	-	9.4	
		4TX	9.4	8.5	8.5	8.8	11.82	



Radio	Mode		Max Gain (dBi)				DG (dBi)	Remark
			G1	G2	G3	G4		
5	5G UNII 2A Internal (Note 5)	2TX	9.4	9	-	-	9.4	Cross- Polarized Antenna
		4TX	9.4	9	9	9.3	12.19	
	5G UNII 2A Internal (Boresight)	2TX	9.4	8.8	-	-	9.4	
		4TX	9.4	8.8	9	9.3	12.14	
	5G UNII 2A Internal (Steering)	2TX	9.4	9	-	-	9.4	
		4TX	9.4	9	9	9.2	12.16	

Note 5: For RF Conducted: For internal Ant. 7~10 and Ant. 15~18, only the mode with higher antenna gain between Boresight mode and Steering mode was selected to record in this column and to perform all the test items, except for RF exposure tests.

Note 6: **<Radio 1>**

For 2.4GHz function:

For IEEE 802.11 b/g/n/VHT/ax (1TX/2RX):

Only Port 1 can be used as transmitting antenna.

Both Port 1 and 2 can be used as receiving antenna.

Port 1~2 could receive simultaneously.

For 5GHz function:

For IEEE 802.11 a/n/ac/ax (1TX/2RX):

Only Port 1 can be used as transmitting antenna.

Both Port 1 and 2 can be used as receiving antenna.

Port 1~2 could receive simultaneously.

For 6GHz function:

For IEEE 802.11 ax (1TX/2RX):

Only Port 1 can be used as transmitting antenna.

Both Port 1 and 2 can be used as receiving antenna.

Port 1~2 could receive simultaneously.

<Radio 2>

For 2.4GHz function:

For IEEE 802.11 b/g/n/VHT/ax/be (1TX, 2TX, 4TX/4RX):

1TX:

Only Port 1 can be used as transmitting antenna.

2TX:

Both Port 1 and 2 can be used as transmitting antenna.

Port 1~2 could transmit simultaneously.

4TX:

Port 1~4 can be used as transmitting antenna.

Port 1~4 could transmit simultaneously.

4RX:

Port 1~4 can be used as receiving antenna.

Port 1~4 could receive simultaneously.

**<Radio 3>****For 5GHz function:****For IEEE 802.11 a/n/ac/ax/be (1TX, 2TX, 4TX/4RX):****1TX:**

Only Port 1 can be used as transmitting antenna.

2TX:

Both Port 1 and 2 can be used as transmitting antenna.

Port 1~2 could transmit simultaneously.

4TX:

Port 1~4 can be used as transmitting antenna.

Port 1~4 could transmit simultaneously.

4RX:

Port 1~4 can be used as receiving antenna.

Port 1~4 could receive simultaneously.

<Radio 4>**For 6GHz function:****For IEEE 802.11 ax/be (1TX, 2TX, 4TX/4RX):****1TX:**

Only Port 1 can be used as transmitting antenna.

2TX:

Both Port 1 and 2 can be used as transmitting antenna.

Port 1~2 could transmit simultaneously.

4TX:

Port 1~4 can be used as transmitting antenna.

Port 1~4 could transmit simultaneously.

4RX:

Port 1~4 can be used as receiving antenna.

Port 1~4 could receive simultaneously.

<Radio 5>**For 5GHz function:****For IEEE 802.11 a/n/ac/ax/be (1TX, 2TX, 4TX/4RX):****1TX:**

Only Port 1 can be used as transmitting antenna.

2TX:

Both Port 1 and 2 can be used as transmitting antenna.

Port 1~2 could transmit simultaneously.

4TX:

Port 1~4 can be used as transmitting antenna.

Port 1~4 could transmit simultaneously.

4RX:

Port 1~4 can be used as receiving antenna.

Port 1~4 could receive simultaneously.

<Radio 6>**For Bluetooth function (1TX/1RX):**

Only Port 1 can be used as transmitting/receiving antenna.

For Zigbee function (1TX/1RX):

Only Port 1 can be used as transmitting/receiving antenna.

**<Radio 7>****For GPS function (1RX):**

The EUT supports the antenna with RX diversity functions.

Internal Ant. 20~21 and external Ant. 7 can be used as receiving antenna, but only one of them will be used at one time.

1.1.4 Mode Test Duty Cycle**<Radio 1>**

Mode	DC	DCF (dB)	T (s)	VBW (Hz)_1/T
802.11ax HEW20_Nss 1,(M0)	0.773	1.12	5.446m	300

<Radio 4>**For Narrow Beam_Full RU_Non-BF mode:**

Mode	DC	DCF (dB)	T (s)	VBW (Hz)_1/T
802.11be EHT20	0.998	0.01	5.456m	10Hz (DC>=0.98)
802.11be EHT40	0.998	0.01	5.456m	10Hz (DC>=0.98)
802.11be EHT80	0.998	0.01	5.456m	10Hz (DC>=0.98)
802.11be EHT160	0.998	0.01	5.456m	10Hz (DC>=0.98)
802.11be EHT320	0.998	0.01	5.459m	10Hz (DC>=0.98)

For Narrow Beam_Full RU_BF mode:

Mode	DC	DCF (dB)	T (s)	VBW (Hz)_1/T
802.11be EHT20-BF_Nss1,(MCS0)_2TX	0.935	0.29	2.986m	1k
802.11be EHT40-BF_Nss1,(MCS0)_2TX	0.956	0.2	3.715m	300
802.11be EHT80-BF_Nss1,(MCS0)_2TX	0.952	0.21	3.9m	300
802.11be EHT160-BF_Nss1,(MCS0)_2TX	0.914	0.39	3.9m	300
802.11be EHT320-BF_Nss1,(MCS0)_2TX	0.949	0.23	3.99m	300
802.11be EHT20-BF_Nss1,(MCS0)_4TX	0.935	0.29	2.989m	1k
802.11be EHT40-BF_Nss1,(MCS0)_4TX	0.946	0.24	3.738m	300
802.11be EHT80-BF_Nss1,(MCS0)_4TX	0.96	0.18	3.898m	300
802.11be EHT160-BF_Nss1,(MCS0)_4TX	0.934	0.3	3.9m	300
802.11be EHT320-BF_Nss1,(MCS0)_4TX	0.958	0.19	3.99m	300

For Narrow Beam_Multi-RU:

Mode	DC	DCF (dB)	T (s)	VBW (Hz)_1/T
802.11be EHT80_Nss 1,(M0),RU484+RU242	0.915	0.39	3.585m	300
802.11be EHT80_Nss 1,(M0),RU242+RU242	0.879	0.56	2.749m	1k
802.11be EHT160_Nss 1,(M0),RU996+RU484	0.79	1.02	1.425m	1k
802.11be EHT160_Nss 1,(M0),RU484+3xRU242	0.888	0.52	2.767m	1k
802.11be EHT160_Nss 1,(M0),RU484+RU484	0.802	0.96	1.425m	1k
802.11be EHT320_Nss 1,(M0),3xRU996	0.806	0.94	1.436m	1k
802.11be EHT320_Nss 1,(M0),2xRU996+RU484	0.91	0.41	3.049m	1k
802.11be EHT320_Nss 1,(M0),2xRU996	0.943	0.25	5.13m	300

**For Narrow Beam_Puncturing:**

Mode	DC	DCF (dB)	T (s)	VBW (Hz) 1/T
802.11be EHT80_Nss 1,(M0),RU484+RU242	0.998	0.01	5.453m	10Hz (DC>=0.98)
802.11be EHT160_Nss 1,(M0),RU996+RU484+RU242	0.997	0.01	5.455m	10Hz (DC>=0.98)
802.11be EHT160_Nss 1,(M0),RU996+RU484	0.997	0.01	5.455m	10Hz (DC>=0.98)
802.11be EHT320_Nss 1,(M0),3xRU996+RU484	0.99	0.04	5.46m	10Hz (DC>=0.98)
802.11be EHT320_Nss 1,(M0),3xRU996	0.998	0.01	5.46m	10Hz (DC>=0.98)
802.11be EHT320_Nss 1,(M0),2xRU996+RU484	0.998	0.01	5.46m	10Hz (DC>=0.98)

For Wide Beam_Full RU_Non-BF mode:

Mode	DC	DCF (dB)	T (s)	VBW (Hz) 1/T
802.11be EHT20_Nss1,(MCS0)_1TX	0.997	0.01	5.455m	10
802.11be EHT40_Nss1,(MCS0)_1TX	0.997	0.01	5.455m	10
802.11be EHT80_Nss1,(MCS0)_1TX	0.997	0.01	5.455m	10
802.11be EHT160_Nss1,(MCS0)_1TX	0.997	0.01	5.455m	10
802.11be EHT320_Nss1,(MCS0)_1TX	0.997	0.01	5.459m	10
802.11be EHT20_Nss1,(MCS0)_2TX	0.997	0.01	5.455m	10
802.11be EHT40_Nss1,(MCS0)_2TX	0.997	0.01	5.455m	10
802.11be EHT80_Nss1,(MCS0)_2TX	0.997	0.01	5.455m	10
802.11be EHT160_Nss1,(MCS0)_2TX	0.997	0.01	5.455m	10
802.11be EHT320_Nss1,(MCS0)_2TX	0.997	0.01	5.459m	10
802.11be EHT20_Nss1,(MCS0)_4TX	0.997	0.01	5.455m	10
802.11be EHT40_Nss1,(MCS0)_4TX	0.997	0.01	5.455m	10
802.11be EHT80_Nss1,(MCS0)_4TX	0.997	0.01	5.455m	10
802.11be EHT160_Nss1,(MCS0)_4TX	0.997	0.01	5.455m	10
802.11be EHT320_Nss1,(MCS0)_4TX	0.997	0.01	5.459m	10

For Wide Beam_Full RU_BF mode:

Mode	DC	DCF (dB)	T (s)	VBW (Hz) 1/T
802.11be EHT20-BF_Nss1,(MCS0)_2TX	0.94	0.27	2.991m	500
802.11be EHT40-BF_Nss1,(MCS0)_2TX	0.97	0.13	3.712m	300
802.11be EHT80-BF_Nss1,(MCS0)_2TX	0.957	0.19	3.896m	300
802.11be EHT160-BF_Nss1,(MCS0)_2TX	0.968	0.14	3.897m	300
802.11be EHT320-BF_Nss1,(MCS0)_2TX	0.964	0.16	3.988m	300
802.11be EHT20-BF_Nss1,(MCS0)_4TX	0.951	0.22	3.1m	500
802.11be EHT40-BF_Nss1,(MCS0)_4TX	0.954	0.2	3.711m	300
802.11be EHT80-BF_Nss1,(MCS0)_4TX	0.951	0.22	3.897m	300
802.11be EHT160-BF_Nss1,(MCS0)_4TX	0.962	0.17	3.897m	300
802.11be EHT320-BF_Nss1,(MCS0)_4TX	0.941	0.26	3.988m	300

**For Wide Beam_Multi-RU:**

Mode	DC	DCF (dB)	T (s)	VBW (Hz)_1/T
802.11be EHT80_Nss 1,(M0),RU484+RU242	0.886	0.53	2.749m	500
802.11be EHT80_Nss 1,(M0),RU242+RU242	0.897	0.47	2.749m	500
802.11be EHT160_Nss 1,(M0),RU996+RU484	0.784	1.06	1.425m	1k
802.11be EHT160_Nss 1,(M0),RU484+3xRU242	0.888	0.52	2.764m	500
802.11be EHT160_Nss 1,(M0),RU484+RU484	0.789	1.03	1.425m	1k
802.11be EHT320_Nss 1,(M0),3xRU996	0.784	1.06	1.436m	1k
802.11be EHT320_Nss 1,(M0),2xRU996+RU484	0.839	0.76	1.852m	1k
802.11be EHT320_Nss 1,(M0),2xRU996	0.927	0.33	5.175m	200

For Wide Beam_Puncturing:

Mode	DC	DCF (dB)	T (s)	VBW (Hz)_1/T
802.11be EHT80_Nss 1,(M0),RU484+RU242	0.998	0.01	5.453m	10Hz (DC>=0.98)
802.11be EHT160_Nss 1,(M0),RU996+RU484+RU242	0.997	0.01	5.453m	10Hz (DC>=0.98)
802.11be EHT160_Nss 1,(M0),RU996+RU484	0.997	0.01	5.453m	10Hz (DC>=0.98)
802.11be EHT320_Nss 1,(M0),3xRU996+RU484	0.998	0.01	5.457m	10Hz (DC>=0.98)
802.11be EHT320_Nss 1,(M0),3xRU996	0.997	0.01	5.457m	10Hz (DC>=0.98)
802.11be EHT320_Nss 1,(M0),2xRU996+RU484	0.997	0.01	5.457m	10Hz (DC>=0.98)

Note:

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

**1.1.5 EUT Operational Condition**

EUT Power Type	From PoE	
Beamforming Function	☒ With beamforming	☐ Without beamforming
	The product has beamforming function for n/VHT/ax/be in 2.4GHz (Radio 2), n/ac/ax/be in 5GHz (Radio 3 and Radio 5) and ax/be in 6GHz (Radio 4).	
Device Type	☐ Indoor Access Point	☐ Subordinate
	☐ Indoor Client	☒ Standard Power Access Point
	☐ Dual Client	☐ Standard Client
	☐ Fixed Client	☐ Very Low Power
Condition of EUT	☐ Indoor	☒ Outdoor
Channel Puncturing Function	☒ Supported Static Puncturing in Radio 4	
	☐ Supported Dynamic Puncturing	
	☒ Unsupported in Radio 1	
	Note: The EUT doesn't support puncturing for CBP.	
Support RU	☒ Full RU in Radio 1 and 4	☒ Partial RU in Radio 4
Test Software Version	Non-beamforming mode: QSPR Version 6.00.00142.1 Beamforming mode: For Conducted: DOS[10.0.19045.4780] For Radiated: Tera term V1.0.0.18	

Note: The above information was declared by manufacturer.

1.1.6 Table for Multiple Listing

Equipment Name	Model Name	BW of 5G Mode (MHz)	Radio 3	SW	Frequencies supported by 320MHz (MHz)
Cisco Wireless 9179F Series Wi-Fi 7 Access Point	CW9179F	20/40/80/160	UNII 1~3/ UNII 2C~3	Cisco	Not Support
		20/40/80	UNII 2C~3	Meraki	6105

Note: The above information was declared by manufacturer.

1.1.7 Table for EUT Support Function

Function	Supports Band
AP	2.4GHz, 5GHz UNII 1~3, 6GHz UNII 5&7, Bluetooth, Zigbee and GPS
Mesh	6GHz UNII 5&7

Note 1: Form above table list, only AP mode was tested and recorded in this report.

Note 2: The above information was declared by manufacturer.

1.1.8 Table for Radio Function

Function Radio (R)	WLAN 2.4GHz	WLAN 5GHz	WLAN 6GHz	Bluetooth	Zigbee	UWB	GPS
R1 (Scanning Radio)	✓	✓ (UNII 1~3)	✓	-	-	-	-
R2	✓	-	-	-	-	-	-
R3	-	✓ (Note 1) (Full band: UNII 1~3) (High band: UNII 2C~3)	-	-	-	-	-
R4	-	-	✓	-	-	-	-
R5	-	✓ (Low band: UNII 1~2A)	-	-	-	-	-
R6	-	-	-	✓	✓	-	-
R7	-	-	-	-	-	-	✓
R8	-	-	-	-	-	Unable to use	-

Note 1: For R3, the full band mode supports Boresight mode only, and the high band mode supports both Boresight mode and Steering mode.

Note 2: For WLAN 2.4GHz, R1 and R2 can't operate at the same frequency simultaneously.

For WLAN 5GHz, R1, R3 and R5 can't operate at the same frequency simultaneously.

For WLAN 6GHz, R1 and R4 can't operate at the same frequency simultaneously.

Note 3: The above information was declared by manufacturer.



1.2 Applicable Standards

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

- ♦ 47 CFR FCC Part 15.407
- ♦ ANSI C63.10-2013
- ♦ FCC KDB 789033 D02 v02r01

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

- ♦ FCC KDB 987594 D02 v03
- ♦ FCC KDB 412172 D01 v01r01
- ♦ FCC KDB 414788 D01 v01r01

1.3 Testing Location Information

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

Test Condition	Test Site No.	Test Engineer	Test Environment (°C / %)	Test Date
RF Conducted (Other tests)	TH03-CB	Ederson Huang	23.2~24.9 / 61~64	Dec. 18, 2024~ Jan. 24, 2025
RF Conducted (EBW/E.I.R.P. for Phi 30°/ PSD/Mask)	TH03-CB	Ederson Huang	21.9~22.8 / 57~62	Dec. 18, 2024~ Apr. 08, 2025
Radiated < 1GHz	03CH05-CB	Jackson Peng	21.9~22.4 / 60~62	Feb. 19, 2025~ Feb. 25, 2025
Radiated > 1GHz (Cabinet)	03CH06-CB	Jackson Peng	22.5~22.9 / 58~60	Feb. 06, 2025~ Feb. 08, 2025
Radiated > 1GHz for Full RU	03CH01-CB	Jackson Peng	22.1~23.1 / 60~62	Dec. 12, 2024~ Jan. 09, 2025
	03CH02-CB		22~23 / 61~63	
	03CH03-CB		22.2~22.6 / 59~61	
	03CH04-CB		22.7~23.8 / 58~60	
	03CH05-CB		21.9~22.4 / 60~62	
	03CH06-CB		22.5~22.9 / 58~60	
Radiated > 1GHz for Multi-RU & Puncturing	03CH01-CB	Jackson Peng	22.1~23.1 / 60~62	Feb. 14, 2025~ Mar. 24, 2025
	03CH02-CB		22~23 / 61~63	
	03CH03-CB		22.2~22.6 / 59~61	
	03CH06-CB		22.5~22.9 / 58~60	



Test Condition	Test Site No.	Test Engineer	Test Environment (°C / %)	Test Date
RF Radiated (E.I.R.P. Power/PSD)	03CH01-CB	Jackson Peng	22.1~23.1 / 60~62	Feb. 18, 2025~ Apr. 07, 2025
	03CH02-CB		22~23 / 61~63	
	03CH03-CB		22.2~22.6 / 59~61	
	03CH04-CB		22.7~23.8 / 58~60	
	03CH05-CB		21.9~22.4 / 60~62	
	03CH06-CB		22.5~22.9 / 58~60	
AC Conduction	CO01-CB	Tim Chen	19~20 / 62~63	Apr. 25, 2025

Note: The tested sample for AC Conduction, RF Radiated (E.I.R.P. Power/PSD) and RF Conducted (EBW/E.I.R.P. for Phi 30°/PSD/Mask) tests were received on Dec. 18, 2024.

1.4 Measurement Uncertainty

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

Test Items	Uncertainty	Remark
Conducted Emission (150kHz ~ 30MHz)	3.8 dB	Confidence levels of 95%
Radiated Emission (9kHz ~ 30MHz)	4.1 dB	Confidence levels of 95%
Radiated Emission (30MHz ~ 1,000MHz)	4.2 dB	Confidence levels of 95%
Radiated Emission (1GHz ~ 18GHz)	4.2 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	4.0 dB	Confidence levels of 95%
Conducted Emission	3.1 dB	Confidence levels of 95%
Output Power Measurement	0.8 dB	Confidence levels of 95%
Power Density Measurement	3.1 dB	Confidence levels of 95%
Bandwidth Measurement	2.1 %	Confidence levels of 95%



2 Test Configuration of EUT

2.1 Test Channel Mode

<Radio 1>

Mode
802.11ax HEW20_Nss1,(MCS0)_1TX
5955MHz
6195MHz
6415MHz
6535MHz
6695MHz
6855MHz

**<Radio 4>****For Narrow Beam_Full RU_Non-BF mode:**

Mode
802.11be EHT20_Nss1,(MCS0)_1TX
5955MHz
6195MHz
6415MHz
6535MHz
6695MHz
6855MHz
802.11be EHT40_Nss1,(MCS0)_1TX
5965MHz
6205MHz
6405MHz
6565MHz
6685MHz
6845MHz
802.11be EHT80_Nss1,(MCS0)_1TX
5985MHz
6225MHz
6385MHz
6625MHz
6705MHz
6785MHz
802.11be EHT160_Nss1,(MCS0)_1TX
6025MHz
6185MHz
6345MHz
6665MHz
802.11be EHT320_Nss1,(MCS0)_1TX
6105MHz
6265MHz
802.11be EHT20_Nss1,(MCS0)_2TX
5955MHz
6195MHz
6415MHz
6535MHz
6695MHz
6855MHz
802.11be EHT40_Nss1,(MCS0)_2TX
5965MHz
6205MHz
6405MHz
6565MHz
6685MHz
6845MHz
802.11be EHT80_Nss1,(MCS0)_2TX
5985MHz
6225MHz



Mode
6385MHz
6625MHz
6705MHz
6785MHz
802.11be EHT160_Nss1,(MCS0)_2TX
6025MHz
6185MHz
6345MHz
6665MHz
802.11be EHT320_Nss1,(MCS0)_2TX
6105MHz
6265MHz
802.11be EHT20_Nss1,(MCS0)_4TX
5955MHz
6195MHz
6415MHz
6535MHz
6695MHz
6855MHz
802.11be EHT40_Nss1,(MCS0)_4TX
5965MHz
6205MHz
6405MHz
6565MHz
6685MHz
6845MHz
802.11be EHT80_Nss1,(MCS0)_4TX
5985MHz
6225MHz
6385MHz
6625MHz
6705MHz
6785MHz
802.11be EHT160_Nss1,(MCS0)_4TX
6025MHz
6185MHz
6345MHz
6665MHz
802.11be EHT320_Nss1,(MCS0)_4TX
6105MHz
6265MHz

For Narrow Beam_Full RU_BF mode:

Mode
802.11be EHT20-BF_Nss1,(MCS0)_2TX
5955MHz
6195MHz
6415MHz
6435MHz



Mode
6475MHz
6515MHz
6535MHz
6695MHz
6855MHz
802.11be EHT40-BF_Nss1,(MCS0)_2TX
5965MHz
6205MHz
6405MHz
6445MHz
6485MHz
6525MHz
6565MHz
6685MHz
6845MHz
802.11be EHT80-BF_Nss1,(MCS0)_2TX
5985MHz
6225MHz
6385MHz
6465MHz
6545MHz
6625MHz
6705MHz
6785MHz
802.11be EHT160-BF_Nss1,(MCS0)_2TX
6025MHz
6185MHz
6345MHz
6505MHz
6665MHz
802.11be EHT320-BF_Nss1,(MCS0)_2TX
6105MHz
6265MHz
6425MHz
6585MHz
802.11be EHT20-BF_Nss1,(MCS0)_4TX
5955MHz
6195MHz
6415MHz
6435MHz
6475MHz
6515MHz
6535MHz
6695MHz
6855MHz
802.11be EHT40-BF_Nss1,(MCS0)_4TX
5965MHz
6205MHz



Mode
6405MHz
6445MHz
6485MHz
6525MHz
6565MHz
6685MHz
6845MHz
802.11be EHT80-BF_Nss1,(MCS0)_4TX
5985MHz
6225MHz
6385MHz
6465MHz
6545MHz
6625MHz
6705MHz
6785MHz
802.11be EHT160-BF_Nss1,(MCS0)_4TX
6025MHz
6185MHz
6345MHz
6505MHz
6665MHz
802.11be EHT320-BF_Nss1,(MCS0)_4TX
6105MHz
6265MHz
6425MHz
6585MHz

For Narrow Beam_Multi-RU:

Mode
802.11be EHT80_Nss1,(MCS0),RU484+RU242 MRU 3_1TX
5985MHz
802.11be EHT80_Nss1,(MCS0),RU242+RU242 MRU 1_1TX
5985MHz
802.11be EHT160_Nss1,(MCS0),RU996+RU484 MRU 2_1TX
6025MHz
802.11be EHT160_Nss1,(MCS0),RU484+3xRU242 MRU 1_1TX
6025MHz
802.11be EHT160_Nss1,(MCS0),RU484+RU484 MRU 1_1TX
6025MHz
802.11be EHT320_Nss1,(MCS0),3xRU996 MRU 4_1TX
6105MHz
802.11be EHT320_Nss1,(MCS0),2xRU996+RU484 MRU 5_1TX
6105MHz
802.11be EHT320_Nss1,(MCS0),2xRU996 MRU 1_1TX
6105MHz
802.11be EHT80_Nss1,(MCS0),RU484+RU242 MRU 3_2TX
5985MHz
802.11be EHT80_Nss1,(MCS0),RU242+RU242 MRU 1_2TX



Mode
5985MHz
802.11be EHT160_Nss1,(MCS0),RU996+RU484 MRU 2_2TX
6025MHz
802.11be EHT160_Nss1,(MCS0),RU484+3xRU242 MRU 1_2TX
6025MHz
802.11be EHT160_Nss1,(MCS0),RU484+RU484 MRU 1_2TX
6025MHz
802.11be EHT320_Nss1,(MCS0),3xRU996 MRU 4_2TX
6105MHz
802.11be EHT320_Nss1,(MCS0),2xRU996+RU484 MRU 5_2TX
6105MHz
802.11be EHT320_Nss1,(MCS0),2xRU996 MRU 1_2TX
6105MHz
802.11be EHT80_Nss1,(MCS0),RU484+RU242 MRU 3_4TX
5985MHz
802.11be EHT80_Nss1,(MCS0),RU242+RU242 MRU 1_4TX
5985MHz
802.11be EHT160_Nss1,(MCS0),RU996+RU484 MRU 2_4TX
6025MHz
802.11be EHT160_Nss1,(MCS0),RU484+3xRU242 MRU 1_4TX
6025MHz
802.11be EHT160_Nss1,(MCS0),RU484+RU484 MRU 1_4TX
6025MHz
802.11be EHT320_Nss1,(MCS0),3xRU996 MRU 4_4TX
6105MHz
802.11be EHT320_Nss1,(MCS0),2xRU996+RU484 MRU 5_4TX
6105MHz
802.11be EHT320_Nss1,(MCS0),2xRU996 MRU 1_4TX
6105MHz

For Narrow Beam Puncturing:

Mode
802.11be EHT80_Nss1,(MCS0),RU484+RU242 CP 3_1TX
5985MHz
802.11be EHT160_Nss1,(MCS0),RU996+RU484+RU242 CP 5_1TX
6025MHz
802.11be EHT160_Nss1,(MCS0),RU996+RU484 CP 2_1TX
6025MHz
802.11be EHT320_Nss1,(MCS0),3xRU996+RU484 CP 6_1TX
6105MHz
802.11be EHT320_Nss1,(MCS0),3xRU996 CP 3_1TX
6105MHz
802.11be EHT320_Nss1,(MCS0),2xRU996+RU484 CP 3_1TX
6105MHz
802.11be EHT80_Nss1,(MCS0),RU484+RU242 CP 3_2TX
5985MHz
802.11be EHT160_Nss1,(MCS0),RU996+RU484+RU242 CP 5_2TX
6025MHz
802.11be EHT160_Nss1,(MCS0),RU996+RU484 CP 4_2TX



6025MHz
802.11be EHT320_Nss1,(MCS0),3xRU996+RU484 CP 6_2TX
6105MHz
802.11be EHT320_Nss1,(MCS0),3xRU996 CP 3_2TX
6105MHz
802.11be EHT320_Nss1,(MCS0),2xRU996+RU484 CP 3_2TX
6105MHz
802.11be EHT80_Nss1,(MCS0),RU484+RU242 CP 3_4TX
5985MHz
802.11be EHT160_Nss1,(MCS0),RU996+RU484+RU242 CP 5_4TX
6025MHz
802.11be EHT160_Nss1,(MCS0),RU996+RU484 CP 4_4TX
6025MHz
802.11be EHT320_Nss1,(MCS0),3xRU996+RU484 CP 6_4TX
6105MHz
802.11be EHT320_Nss1,(MCS0),3xRU996 CP 3_4TX
6105MHz
802.11be EHT320_Nss1,(MCS0),2xRU996+RU484 CP 3_4TX
6105MHz

For Wide Beam_Full RU_Non-BF mode:

Mode
802.11be EHT20_Nss1,(MCS0)_1TX
5955MHz
6195MHz
6415MHz
6535MHz
6695MHz
6855MHz
802.11be EHT40_Nss1,(MCS0)_1TX
5965MHz
6205MHz
6405MHz
6565MHz
6685MHz
6845MHz
802.11be EHT80_Nss1,(MCS0)_1TX
5985MHz
6225MHz
6385MHz
6625MHz
6705MHz
6785MHz
802.11be EHT160_Nss1,(MCS0)_1TX
6025MHz
6185MHz
6345MHz
6665MHz
802.11be EHT320_Nss1,(MCS0)_1TX



Mode
6105MHz
6265MHz
802.11be EHT20_Nss1,(MCS0)_2TX
5955MHz
6195MHz
6415MHz
6535MHz
6695MHz
6855MHz
802.11be EHT40_Nss1,(MCS0)_2TX
5965MHz
6205MHz
6405MHz
6565MHz
6685MHz
6845MHz
802.11be EHT80_Nss1,(MCS0)_2TX
5985MHz
6225MHz
6385MHz
6625MHz
6705MHz
6785MHz
802.11be EHT160_Nss1,(MCS0)_2TX
6025MHz
6185MHz
6345MHz
6665MHz
802.11be EHT320_Nss1,(MCS0)_2TX
6105MHz
6265MHz
802.11be EHT20_Nss1,(MCS0)_4TX
5955MHz
6195MHz
6415MHz
6535MHz
6695MHz
6855MHz
802.11be EHT40_Nss1,(MCS0)_4TX
5965MHz
6205MHz
6405MHz
6565MHz
6685MHz
6845MHz
802.11be EHT80_Nss1,(MCS0)_4TX
5985MHz
6225MHz



Mode
6385MHz
6625MHz
6705MHz
6785MHz
802.11be EHT160_Nss1,(MCS0)_4TX
6025MHz
6185MHz
6345MHz
6665MHz
802.11be EHT320_Nss1,(MCS0)_4TX
6105MHz
6265MHz

For Wide Beam_Full RU_BF mode:

Mode
802.11be EHT20-BF_Nss1,(MCS0)_2TX
5955MHz
6195MHz
6415MHz
6535MHz
6695MHz
6855MHz
802.11be EHT40-BF_Nss1,(MCS0)_2TX
5965MHz
6205MHz
6405MHz
6565MHz
6685MHz
6845MHz
802.11be EHT80-BF_Nss1,(MCS0)_2TX
5985MHz
6225MHz
6385MHz
6625MHz
6705MHz
6785MHz
802.11be EHT160-BF_Nss1,(MCS0)_2TX
6025MHz
6185MHz
6345MHz
6665MHz
802.11be EHT320-BF_Nss1,(MCS0)_2TX
6105MHz
6265MHz
802.11be EHT20-BF_Nss1,(MCS0)_4TX
5955MHz
6195MHz
6415MHz
6535MHz



Mode
6695MHz
6855MHz
802.11be EHT40-BF_Nss1,(MCS0)_4TX
5965MHz
6205MHz
6405MHz
6565MHz
6685MHz
6845MHz
802.11be EHT80-BF_Nss1,(MCS0)_4TX
5985MHz
6225MHz
6385MHz
6625MHz
6705MHz
6785MHz
802.11be EHT160-BF_Nss1,(MCS0)_4TX
6025MHz
6185MHz
6345MHz
6665MHz
802.11be EHT320-BF_Nss1,(MCS0)_4TX
6105MHz
6265MHz

For Wide Beam_Multi-RU:

Mode
802.11be EHT80_Nss1,(MCS0),RU484+RU242 MRU 3_1TX
5985MHz
802.11be EHT80_Nss1,(MCS0),RU242+RU242 MRU 1_1TX
5985MHz
802.11be EHT160_Nss1,(MCS0),RU996+RU484 MRU 2_1TX
6025MHz
802.11be EHT160_Nss1,(MCS0),RU484+3xRU242 MRU 1_1TX
6025MHz
802.11be EHT160_Nss1,(MCS0),RU484+RU484 MRU 1_1TX
6025MHz
802.11be EHT320_Nss1,(MCS0),3xRU996 MRU 4_1TX
6105MHz
802.11be EHT320_Nss1,(MCS0),2xRU996+RU484 MRU 5_1TX
6105MHz
802.11be EHT320_Nss1,(MCS0),2xRU996 MRU 1_1TX
6105MHz
802.11be EHT80_Nss1,(MCS0),RU484+RU242 MRU 3_2TX
5985MHz
802.11be EHT80_Nss1,(MCS0),RU242+RU242 MRU 1_2TX
5985MHz
802.11be EHT160_Nss1,(MCS0),RU996+RU484 MRU 2_2TX
6025MHz



Mode
802.11be EHT160_Nss1,(MCS0),RU484+3xRU242 MRU 1_2TX
6025MHz
802.11be EHT160_Nss1,(MCS0),RU484+RU484 MRU 1_2TX
6025MHz
802.11be EHT320_Nss1,(MCS0),3xRU996 MRU 4_2TX
6105MHz
802.11be EHT320_Nss1,(MCS0),2xRU996+RU484 MRU 5_2TX
6105MHz
802.11be EHT320_Nss1,(MCS0),2xRU996 MRU 1_2TX
6105MHz
802.11be EHT80_Nss1,(MCS0),RU484+RU242 MRU 3_4TX
5985MHz
802.11be EHT80_Nss1,(MCS0),RU242+RU242 MRU 1_4TX
5985MHz
802.11be EHT160_Nss1,(MCS0),RU996+RU484 MRU 2_4TX
6025MHz
802.11be EHT160_Nss1,(MCS0),RU484+3xRU242 MRU 1_4TX
6025MHz
802.11be EHT160_Nss1,(MCS0),RU484+RU484 MRU 1_4TX
6025MHz
802.11be EHT320_Nss1,(MCS0),3xRU996 MRU 4_4TX
6105MHz
802.11be EHT320_Nss1,(MCS0),2xRU996+RU484 MRU 5_4TX
6105MHz
802.11be EHT320_Nss1,(MCS0),2xRU996 MRU 1_4TX
6105MHz

For Wide Beam_Puncturing:

Mode
802.11be EHT80_Nss1,(MCS0),RU484+RU242 CP 3_1TX
5985MHz
802.11be EHT160_Nss1,(MCS0),RU996+RU484+RU242 CP 5_1TX
6025MHz
802.11be EHT160_Nss1,(MCS0),RU996+RU484 CP 2_1TX
6025MHz
802.11be EHT320_Nss1,(MCS0),3xRU996+RU484 CP 6_1TX
6105MHz
802.11be EHT320_Nss1,(MCS0),3xRU996 CP 3_1TX
6105MHz
802.11be EHT320_Nss1,(MCS0),2xRU996+RU484 CP 3_1TX
6105MHz
802.11be EHT80_Nss1,(MCS0),RU484+RU242 CP 3_2TX
5985MHz
802.11be EHT160_Nss1,(MCS0),RU996+RU484+RU242 CP 5_2TX
6025MHz
802.11be EHT160_Nss1,(MCS0),RU996+RU484 CP 4_2TX
6025MHz
802.11be EHT320_Nss1,(MCS0),3xRU996+RU484 CP 6_2TX
6105MHz



802.11be EHT320_Nss1,(MCS0),3xRU996 CP 3_2TX
6105MHz
802.11be EHT320_Nss1,(MCS0),2xRU996+RU484 CP 3_2TX
6105MHz
802.11be EHT80_Nss1,(MCS0),RU484+RU242 CP 3_4TX
5985MHz
802.11be EHT160_Nss1,(MCS0),RU996+RU484+RU242 CP 5_4TX
6025MHz
802.11be EHT160_Nss1,(MCS0),RU996+RU484 CP 4_4TX
6025MHz
802.11be EHT320_Nss1,(MCS0),3xRU996+RU484 CP 6_4TX
6105MHz
802.11be EHT320_Nss1,(MCS0),3xRU996 CP 3_4TX
6105MHz
802.11be EHT320_Nss1,(MCS0),2xRU996+RU484 CP 3_4TX
6105MHz

Note:

- ♦ For Radio 4: EHT20 / EHT40 / EHT80 / EHT160 covers HEW20 / HEW40 / HEW80 / HEW160 due to similar modulation. The power setting for HEW20 / HEW40 / HEW80 / HEW160 is the same or lower than EHT20 / EHT40 / EHT80 / EHT160.



2.2 The Worst Case Measurement Configuration

The Worst Case Mode for Following Conformance Tests								
Tests Item	AC power-line conducted emissions							
Condition	AC power-line conducted measurement for line and neutral Test Voltage: 120Vac / 60Hz							
Operating Mode	Normal Link							
	1. The EUT performed the testing on "LAN 0" and "LAN 1" ports. The "LAN 1" port generated the worst case. Consequently, the measurement will follow this same test mode.							
	2. The EUT performed the testing with PoE 1~8. The "PoE 4" generated the worst case. Consequently, the measurement will follow this same test mode.							
	3. The EUT performed the testing with 2.4GHz, 5GHz and 6GHz in Radio 1. The 2.4GHz in Radio 1 generated the worst case. Consequently, the measurement will follow this same test mode.							
	4. The EUT performed the testing with Bluetooth and Zigbee in Radio 6. The Bluetooth in Radio 6 generated the worst case. Consequently, the measurement will follow this same test mode.							
	5. The EUT performed the testing with Internal Ant. 20, Internal Ant. 21 and External Ant. 7 for GPS function. The Internal Ant. 20 for GPS function generated the worst case. Consequently, the measurement will follow this same test mode.							
	6. The EUT performed the testing with Boresight mode and Steering mode in Radio 3. The Boresight mode in Radio 3 generated the worst case. Consequently, the measurement will follow this same test mode.							
	7. The EUT performed the testing with Narrow Beam mode and Wide Beam mode in Radio 4. The Narrow Beam mode in Radio 4 generated the worst case. Consequently, the measurement will follow this same test mode.							
	8. The EUT performed the testing with Internal Ant. (Boresight mode and Steering mode), External Ant. 1, External Ant. 5 and External Ant. 6 for Radio 5. The mode that Radio 5 is not functioning generated the worst case. Consequently, the measurement will follow this same test mode.							
	9. The EUT performed the testing with Internal Ant., External Ant. 1, External Ant. 5 and External Ant. 6 for Radio 2. The Internal Ant. for Radio 2 generated the worst case. Consequently, the measurement will follow this same test mode.							
	R1 (2.4GHz/ 5GHz/6GHz)	R2 (2.4GHz)	R3 (5GHz)	R4 (6GHz)	R5 (5GHz)	R6 (BT/ Zigbee)	R7 (GPS)	PoE
1	2.4GHz	Internal Ant.	Boresight	Narrow Beam	N/A	BT	Internal Ant. 20	1 (Test LAN 0)

The Worst Case Mode for Following Conformance Tests		
Tests Item	Emission Bandwidth	
Test Condition	Conducted measurement at transmit chains	
Operating Mode	1	EUT_R1: 6GHz
	2	EUT_R4: 6GHz (Narrow Beam)
	3	EUT_R4: 6GHz (Wide Beam)



The Worst Case Mode for Following Conformance Tests		
Tests Item	Maximum Equivalent Isotropically Radiated Power (E.I.R.P.) Maximum E.I.R.P. at any elevation angle above 30 degrees Peak Power Spectral Density (E.I.R.P.)	
Test Condition	Conducted measurement at transmit chains	
Operating Mode	1	EUT_R1: 6GHz

The Worst Case Mode for Following Conformance Tests		
Tests Item	Maximum Equivalent Isotropically Radiated Power (E.I.R.P.)	
Test Condition	Radiated measurement If EUT consist of multiple antenna assembly (multiple antenna are used in EUT regardless of spatial multiplexing MIMO configuration), the radiated test should be performed with highest antenna gain of each antenna type.	
Operating Mode	After evaluating, EUT in Y axis was the worst case, so the measurement will follow this same test configuration.	
	1	EUT in Y axis_R4: 6GHz (Narrow Beam)
	2	EUT in Y axis_R4: 6GHz (Wide Beam)

The Worst Case Mode for Following Conformance Tests		
Tests Item	Maximum E.I.R.P. at any elevation angle above 30 degrees	
Test Condition	Conducted measurement at transmit chains	
Operating Mode	1	EUT_R4: 6GHz (Narrow Beam)
	2	EUT_R4: 6GHz (Wide Beam)

The Worst Case Mode for Following Conformance Tests		
Tests Item	Peak Power Spectral Density (E.I.R.P.)	
Test Condition	Radiated measurement If EUT consist of multiple antenna assembly (multiple antenna are used in EUT regardless of spatial multiplexing MIMO configuration), the radiated test should be performed with highest antenna gain of each antenna type.	
Operating Mode	After evaluating, EUT in Y axis was the worst case, so the measurement will follow this same test configuration.	
	1	EUT in Y axis_R4: 6GHz (Narrow Beam)_Full RU
	2	EUT in Y axis_R4: 6GHz (Narrow Beam)_Multi-RU
	3	EUT in Y axis_R4: 6GHz (Narrow Beam)_Puncturing
	4	EUT in Y axis_R4: 6GHz (Wide Beam)_Full RU
	5	EUT in Y axis_R4: 6GHz (Wide Beam)_Multi-RU
	6	EUT in Y axis_R4: 6GHz (Wide Beam)_Puncturing



The Worst Case Mode for Following Conformance Tests	
Tests Item	Unwanted Emissions
Test Condition	Radiated measurement If EUT consist of multiple antenna assembly (multiple antenna are used in EUT regardless of spatial multiplexing MIMO configuration), the radiated test should be performed with highest antenna gain of each antenna type.
Operating Mode < 1GHz	CTX
	After evaluating, EUT in Y axis was the worst case, so the measurement will follow this same test configuration.
1	EUT in Y axis_R1: 2.4GHz + PoE 1
2	EUT in Y axis_R1: 2.4GHz + PoE 2
3	EUT in Y axis_R1: 2.4GHz + PoE 3
4	EUT in Y axis_R1: 2.4GHz + PoE 4
5	EUT in Y axis_R1: 2.4GHz + PoE 5
6	EUT in Y axis_R1: 2.4GHz + PoE 6
7	EUT in Y axis_R1: 2.4GHz + PoE 7
8	EUT in Y axis_R1: 2.4GHz + PoE 8
Mode 4 has been evaluated to be the worst case among Mode 1~8, so the measurement for Mode 9~25 will follow this same test mode.	
9	EUT in Y axis_R1: 5GHz + PoE 4
10	EUT in Y axis_R1: 6GHz + PoE 4
11	EUT in Y axis_R2: 2.4GHz (Internal Ant.) + PoE 4
12	EUT in Y axis_R3: 5GHz (Boresight) + PoE 4
13	EUT in Y axis_R4: 6GHz (Narrow Beam) + PoE 4
14	EUT in Y axis_R5: 5GHz (Internal Ant. - Boresight) + PoE 4
15	EUT in Y axis_R6: Bluetooth + PoE 4
16	EUT in Y axis_R6: Zigbee + PoE 4
17	EUT in Y axis_R3: 5GHz (Steering) + PoE 4
18	EUT in Y axis_R4: 6GHz (Wide Beam) + PoE 4
19	EUT in Y axis_R5: 5GHz (Internal Ant. - Steering) + PoE 4
20	EUT in Y axis_R2: 2.4GHz (External Ant. 1) + PoE 4
21	EUT in Y axis_R2: 2.4GHz (External Ant. 5) + PoE 4
22	EUT in Y axis_R2: 2.4GHz (External Ant. 6) + PoE 4
23	EUT in Y axis_R5: 5GHz (External Ant. 1) + PoE 4
24	EUT in Y axis_R5: 5GHz (External Ant. 5) + PoE 4
25	EUT in Y axis_R5: 5GHz (External Ant. 6) + PoE 4
For operating, mode 13 is the worst case and it was recorded in this test report.	



Operating Mode > 1GHz	CTX (Cabinet)
	After evaluating, EUT in Y axis was the worst case, so the measurement will follow this same test configuration.
1	EUT in Y axis_R1: 6GHz
Operating Mode > 1GHz	CTX
	After evaluating, EUT in Y axis was the worst case, so the measurement will follow this same test configuration.
1	EUT in Y axis_R4: 6GHz (Narrow Beam)
2	EUT in Y axis_R4: 6GHz (Wide Beam)

The Worst Case Mode for Following Conformance Tests	
Tests Item	Unwanted Emissions
Test Condition	Conducted measurement at transmit chains
Operating Mode > 1GHz	CTX (Harmonic & Bandedge)
1	EUT_R1: 6GHz

The Worst Case Mode for Following Conformance Tests	
Tests Item	Emission MASK
Test Condition	Conducted measurement at transmit chains
Operating Mode	1 EUT_R1: 6GHz
	2 EUT_R4: 6GHz (Narrow Beam)_Full RU
	3 EUT_R4: 6GHz (Narrow Beam)_Multi-RU
	4 EUT_R4: 6GHz (Narrow Beam)_Puncturing
	5 EUT_R4: 6GHz (Wide Beam)_Full RU
	6 EUT_R4: 6GHz (Wide Beam)_Multi-RU
	7 EUT_R4: 6GHz (Wide Beam)_Puncturing



The Worst Case Mode for Following Conformance Tests								
Tests Item	Simultaneous Transmission Analysis - Co-location RF Exposure Evaluation							
Operating Mode	R1 (2.4GHz/5GHz/ 6GHz)	R2 (2.4GHz)	R3 (5GHz UNII 1~3/ 5GHz UNII 2C~3)	R4 (6GHz)	R5 (5GHz)	R6 (BT/Zigbee)		
1	2.4GHz	Internal Ant.	Full band: UNII 1~3 (Boresight)	Narrow Beam	N/A	BT		
2	5GHz							
3	6GHz							
4	2.4GHz					Zigbee		
5	5GHz							
6	6GHz							
7	2.4GHz		High band: UNII 2C~3 (Steering)	Wide Beam	Internal Ant. (Steering)	BT		
8	5GHz							
9	6GHz							
10	2.4GHz					Zigbee		
11	5GHz							
12	6GHz							
13	2.4GHz	External Ant.	High band: UNII 2C~3 (Boresight)	Narrow Beam	External Ant.	BT		
14	5GHz							
15	6GHz							
16	2.4GHz					Zigbee		
17	5GHz							
18	6GHz							
19	2.4GHz	Internal Ant.					Internal Ant. (Boresight)	BT
20	5GHz							
21	6GHz							
22	2.4GHz							Zigbee
23	5GHz							
24	6GHz							
Refer to Sporton Test Report No.: FA4N2715-01 for Co-location RF Exposure Evaluation.								

Refer to Sporton Test Report No.: FA4N2715-01 for Co-location RF Exposure Evaluation.

Note: The PoEs were for measurement only and would not be marketed. Their information is shown as below:

Equipment	Brand	Model Name
PoE 1	Microsemi	PD-9001GR/AT/AC
PoE 2	PHIHONG	POE29U-1AT(PL)
PoE 3	DELTA	ADH-65AR B
PoE 4	PHIHONG	POEA33U-1ATE
PoE 5	PHIHONG	POE60U-1BT-X



Equipment	Brand	Model Name
PoE 6	PHIHONG	POE60U-BTA(X66M-R)
PoE 7	PHIHONG	POE60U-BTA(X664-R)
PoE 8	DELTA	ADH-65AR P

2.3 EUT Operation during Test

For CTX Mode:

Non-beamforming mode:

The EUT was programmed to be in continuously transmitting mode.

Beamforming mode:

For Conducted:

During the test, the following programs under WIN 10 were executed.

The program was executed as follows:

1. During the test, the EUT operation to normal function.
2. Executed command fixed test channel under DOS.
3. Executed "DOS[10.0.19045.4780]" to link with the remote workstation to transmit and receive packet by Client and transmit duty cycle no less than 98%.

For Radiated:

During the test, the following programs under WIN 10 were executed.

The program was executed as follows:

1. During the test, the EUT operation to normal function.
2. Executed command fixed test channel under DOS.
3. Executed "Tera term V1.0.0.18" to link with the remote workstation to transmit and receive packet by Client and transmit duty cycle no less than 98%.

For Normal Link:

During the test, the EUT operation to normal function.

2.4 Accessories

Solar shield*1 (Optional)

Bracket*1 (Optional)

Bay cover*1

Rubber gland*1



2.5 Support Equipment

For AC Conduction:

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	PoE 4 (1)	PHIHONG	POEA33U-1ATE	N/A
B	2.4G NB	DELL	E6400	N/A
C	5G NB	DELL	E6400	N/A
D	6G module	MTK	MT7927	N/A
E	6G NB	DELL	E6400	N/A
F	GPS Simulator	WELNAVIGATE	GS-100	N/A
G	LAN1 PC	ASUS	S300TA	TX2-RTL8821CE
H	PoE 4 (2)	PHIHONG	POEA33U-1ATE	N/A
I	LAN0 PC	ASUS	S300TA	TX2-RTL8821CE
J	Smart phone	REDMI	M1810F6LH	2AFZZ-RMSF6LG

For Radiated < 1GHz and Radiated > 1GHz (Cabinet):

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	NB	DELL	E4300	N/A
B	PoE 4	PHIHONG	POEA33U-1ATE	N/A

For Radiated > 1GHz:

Non-beamforming mode:

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	NB	DELL	E4300	N/A
B	PoE 4	PHIHONG	POEA33U-1ATE	N/A

Beamforming mode:

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	NB	DELL	E4300	N/A
B	PoE 4	PHIHONG	POEA33U-1ATE	N/A
C	NB	DELL	E4300	N/A
D	PoE	CISCO	MA-INJ-5	N/A
E	Client	CISCO	Alpine	N/A

**For RF Radiated (E.I.R.P. Power/PSD):****Non-beamforming mode:**

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	NB	DELL	E4300	N/A
B	PoE 2	PHIHONG	POE29U-1AT(PL)	N/A

Beamforming mode:

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	NB	DELL	E4300	N/A
B	PoE 2	PHIHONG	POE29U-1AT(PL)	N/A
C	NB	DELL	E4300	N/A
D	PoE	CISCO	MA-INJ-5	N/A
E	Client	CISCO	Alpine	N/A

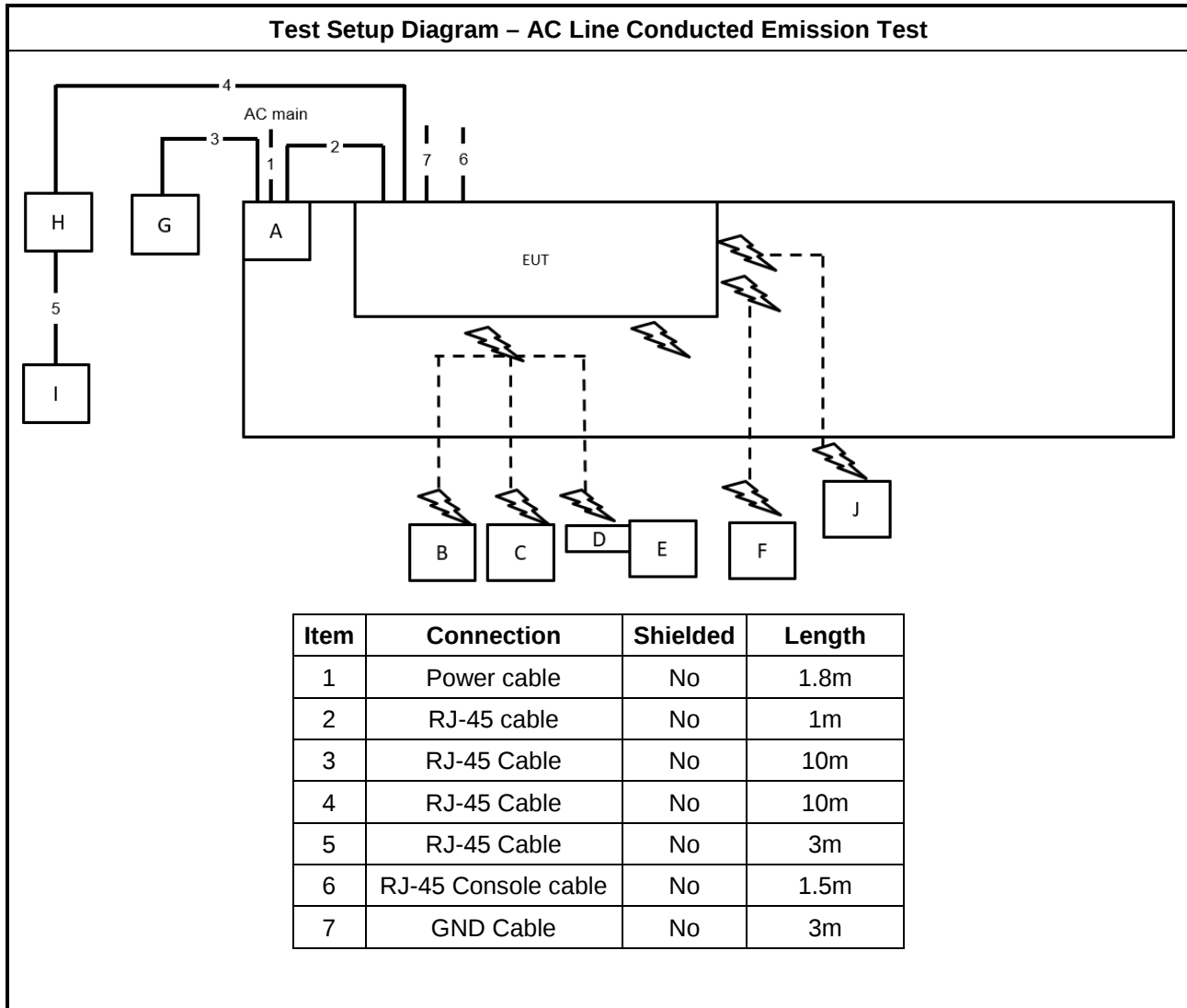
For RF Conducted (EBW/E.I.R.P. for Phi 30°/PSD/Mask and Other tests):**Non-beamforming mode:**

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	NB	DELL	E4300	N/A
B	PoE 4	PHIHONG	POEA33U-1ATE	N/A

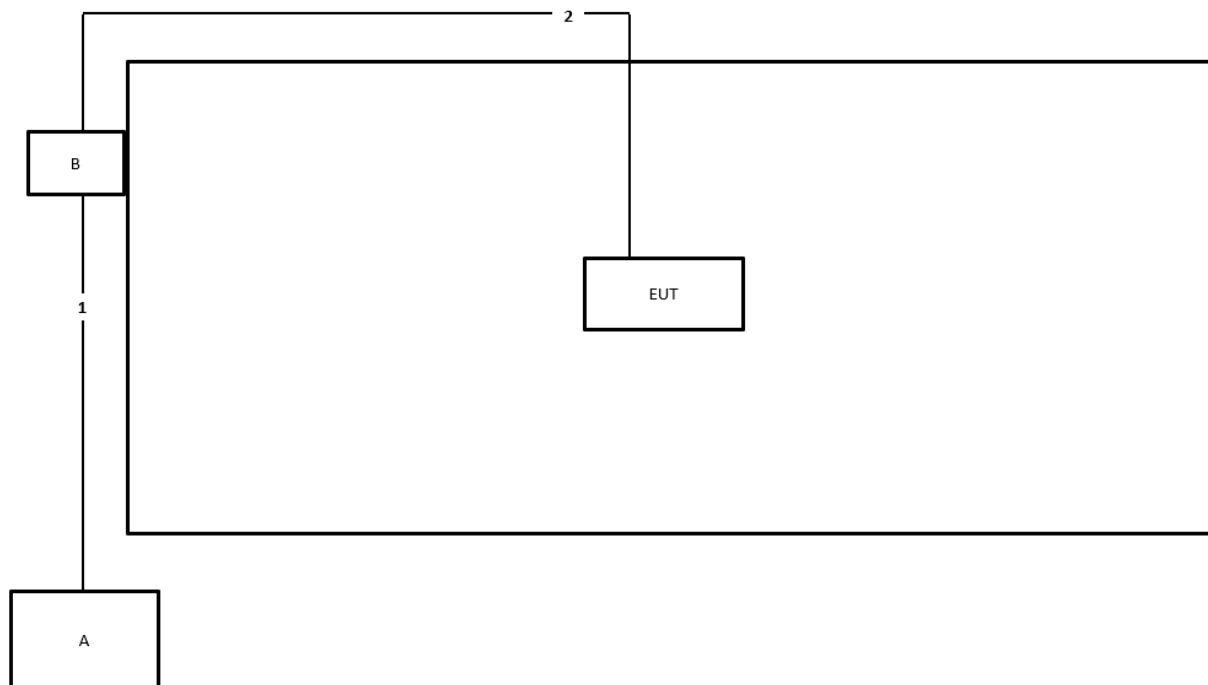
Beamforming mode:

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	NB	DELL	E4300	N/A
B	PoE 4	PHIHONG	POEA33U-1ATE	N/A
C	NB	DELL	E4300	N/A
D	Client	CISCO	Alpine	N/A

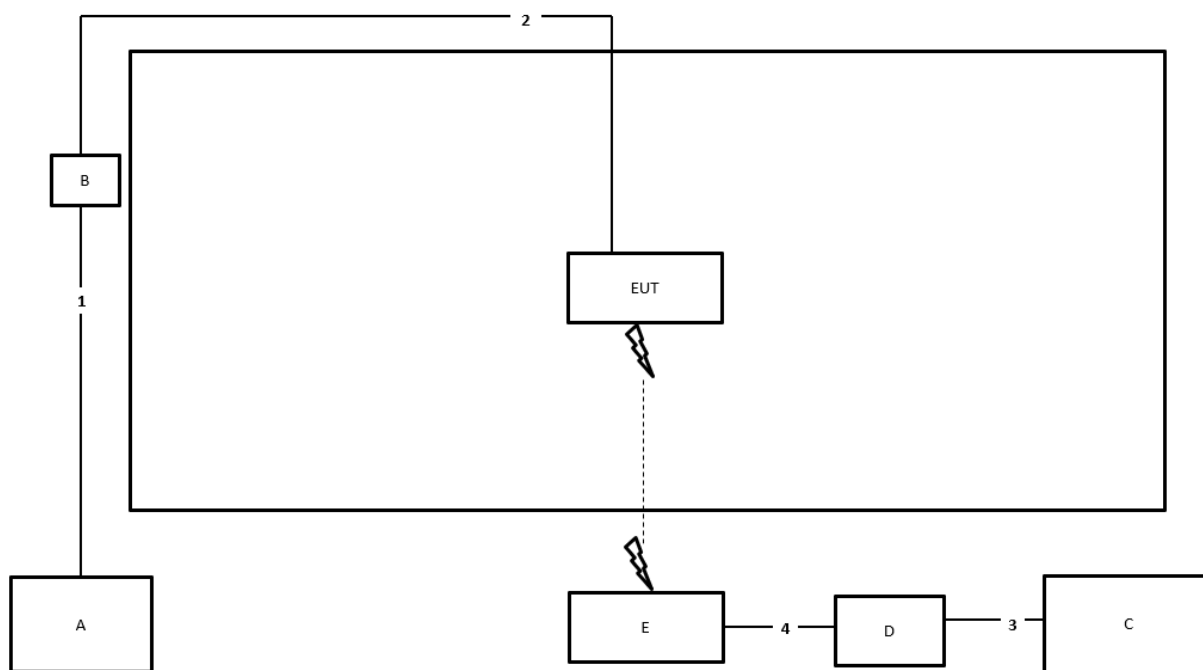
2.6 Test Setup Diagram



**Test Setup Diagram - Radiated Test < 1GHz and
Radiated Test > 1GHz for Non-beamforming mode and for Cabinet**



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

Test Setup Diagram - Radiated Test > 1GHz for Beamforming mode


Item	Connection	Shielded	Length
1	RJ-45 cable	No	1m
2	RJ-45 cable	No	10m
3	RJ-45 cable	No	1m
4	RJ-45 cable	No	10m

3 Transmitter Test Result

3.1 AC Power-line Conducted Emissions

3.1.1 AC Power-line Conducted Emissions Limit

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

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

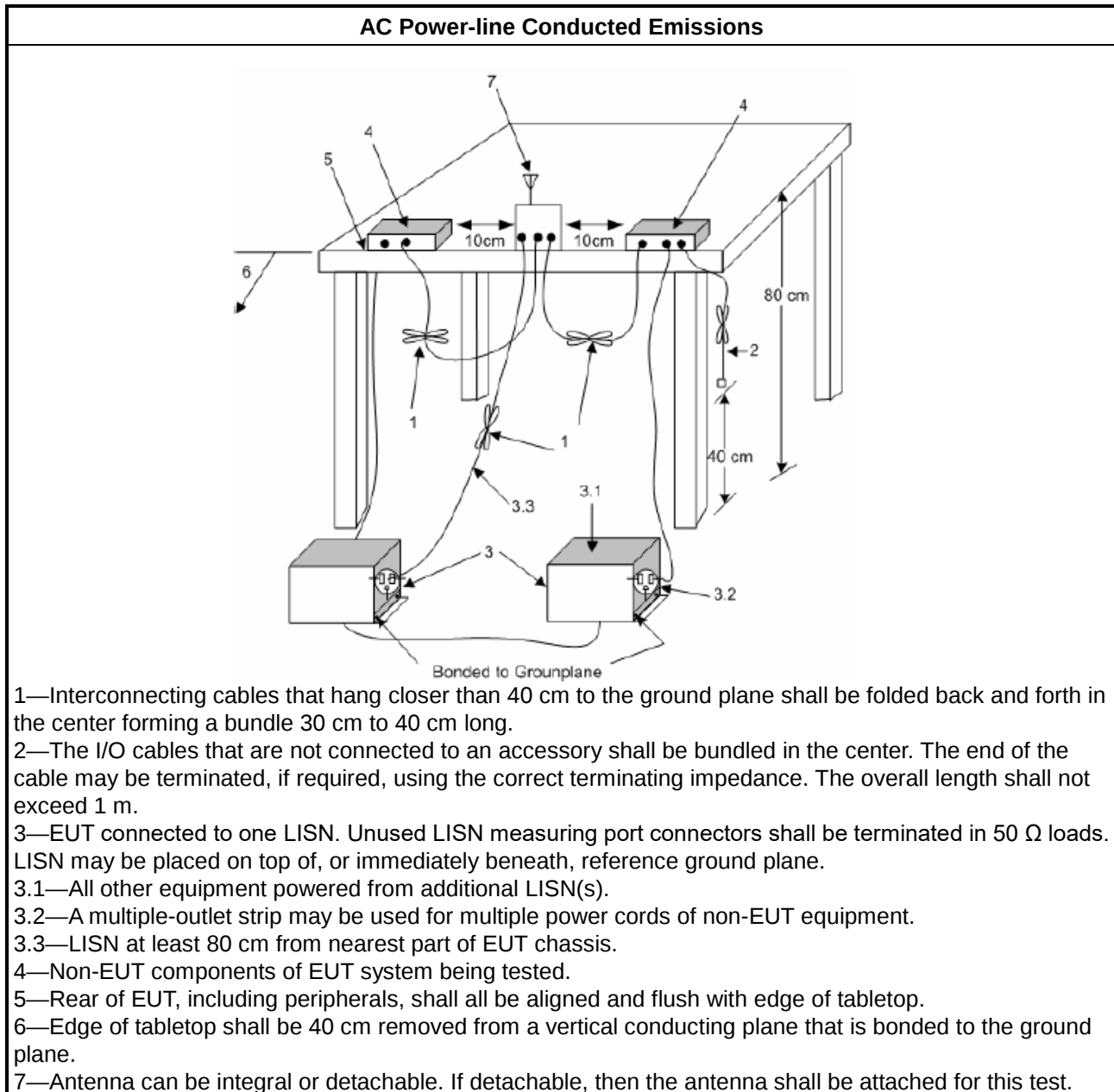
3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

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

3.1.4 Test Setup



3.1.5 Measurement Results Calculation

The measured Level is calculated using:

- Corrected Reading (dBuV) = LISN Factor + Cable Loss + Read Level = Level
- Margin = - Limit + (Read Level + LISN Factor + Cable Loss)

3.1.6 Test Result of AC Power-line Conducted Emissions

Refer as Appendix A

3.2 Emission Bandwidth

3.2.1 Emission Bandwidth Limit

Emission Bandwidth Limit	
UNII Devices	
☒	For the 5925-6425 GHz band, N/A
☐	For the 6425-6525 GHz band, N/A
☒	For the 6525-6875 GHz band, N/A
☐	For the 6875-7125 GHz band, N/A
RLAN Devices	
☐	For the 5925-6425 GHz band, N/A
☐	For the 6425-6525 GHz band, N/A
☐	For the 6525-6875 GHz band, N/A
☐	For the 6875-7125 GHz band, N/A

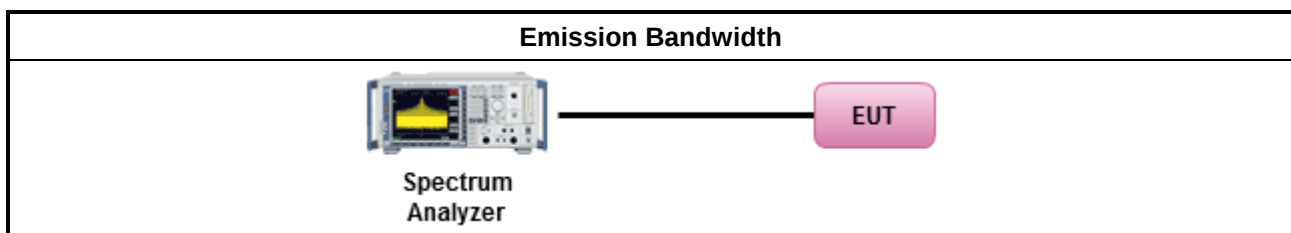
3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

Test Method	
▪ For the emission bandwidth shall be measured using one of the options below:	
☒	According to FCC KDB 987594 D02 clause II.C, measurement procedure shall refer to FCC KDB 789033 D02, clause C for EBW and clause D for OBW measurement.
☐	Refer as ANSI C63.10, clause 6.9.1 for occupied bandwidth testing.
☐	Refer as IC RSS-Gen, clause 4.6 for bandwidth testing.

3.2.4 Test Setup



3.2.5 Test Result of Emission Bandwidth

Refer as Appendix B



3.3 Maximum Equivalent Isotropically Radiated Power (E.I.R.P.)

3.3.1 Maximum Equivalent Isotropically Radiated Power (E.I.R.P.) Limit

Maximum Equivalent Isotropically Radiated Power (E.I.R.P.) Limit	
UNII Devices	
☒ For the 5.925 ~ 6.425 GHz band:	
	■ For standard power access point and fixed client device : e.i.r.p < 36 dBm. For outdoor devices, the maximum e.i.r.p. at any elevation angle above 30 degrees not exceed 125 mW (21 dBm).
	■ For indoor access point : e.i.r.p < 30 dBm.
	■ For subordinate device control of an indoor access point : e.i.r.p < 30 dBm.
	■ For client device control of a standard power access point : e.i.r.p < 30 dBm.
	■ For client device control of an indoor access point : e.i.r.p < 24 dBm.
	■ For very low power device : e.i.r.p < 14 dBm.
☐ For the 6.425 ~ 6.525 GHz band:	
	■ For indoor access point : e.i.r.p < 30 dBm.
	■ For client device control of an indoor access point : e.i.r.p < 24 dBm.
☒ For the 6.525 ~ 6.875 GHz band:	
	■ For standard power access point and fixed client device : e.i.r.p < 36 dBm. For outdoor devices, the maximum e.i.r.p. at any elevation angle above 30 degrees not exceed 125 mW (21 dBm).
	■ For indoor access point : e.i.r.p < 30 dBm.
	■ For subordinate device control of an indoor access point : e.i.r.p < 30 dBm.
	■ For client device control of a standard power access point : e.i.r.p < 30 dBm.
	■ For client device control of an indoor access point : e.i.r.p < 24 dBm.
	■ For very low power device : e.i.r.p < 14 dBm.
☐ For the 6.875 ~ 7.125 GHz band:	
	■ For indoor access point : e.i.r.p < 30 dBm.
	■ For client device control of an indoor access point : e.i.r.p < 24 dBm.
RLAN Devices	
☐ For the 5.925 ~ 7.125 GHz band:	
	■ For low-power indoor access-points & indoor subordinate devices < 30 dBm .
	■ For low-power client devices < 24 dBm.
	■ For very low-power devices < 14 dBm.
☐ For the 5.925 ~ 6.875 GHz band:	
	■ For standard-power access points & fixed client devices < 36 dBm. For outdoor devices, the maximum e.i.r.p. at any elevation angle above 30 degrees not exceed 125 mW (21 dBm).
	■ For standard client devices < 30 dBm.



3.3.2 Measuring Instruments

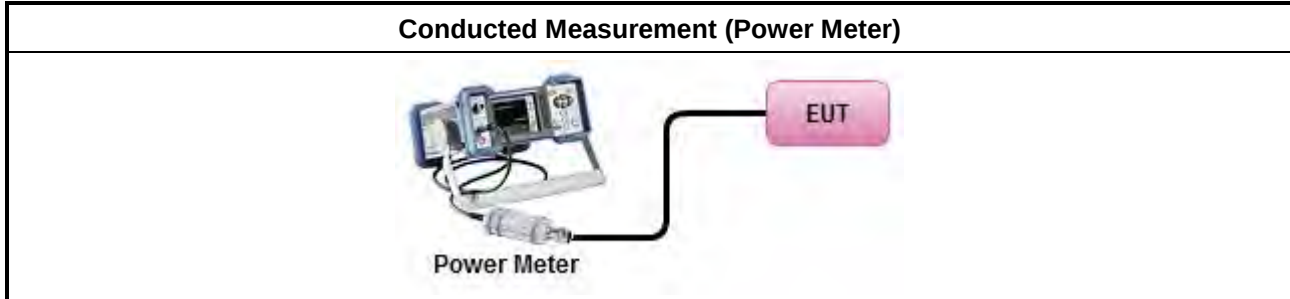
Refer a test equipment and calibration data table in this test report.

3.3.3 Test Procedures

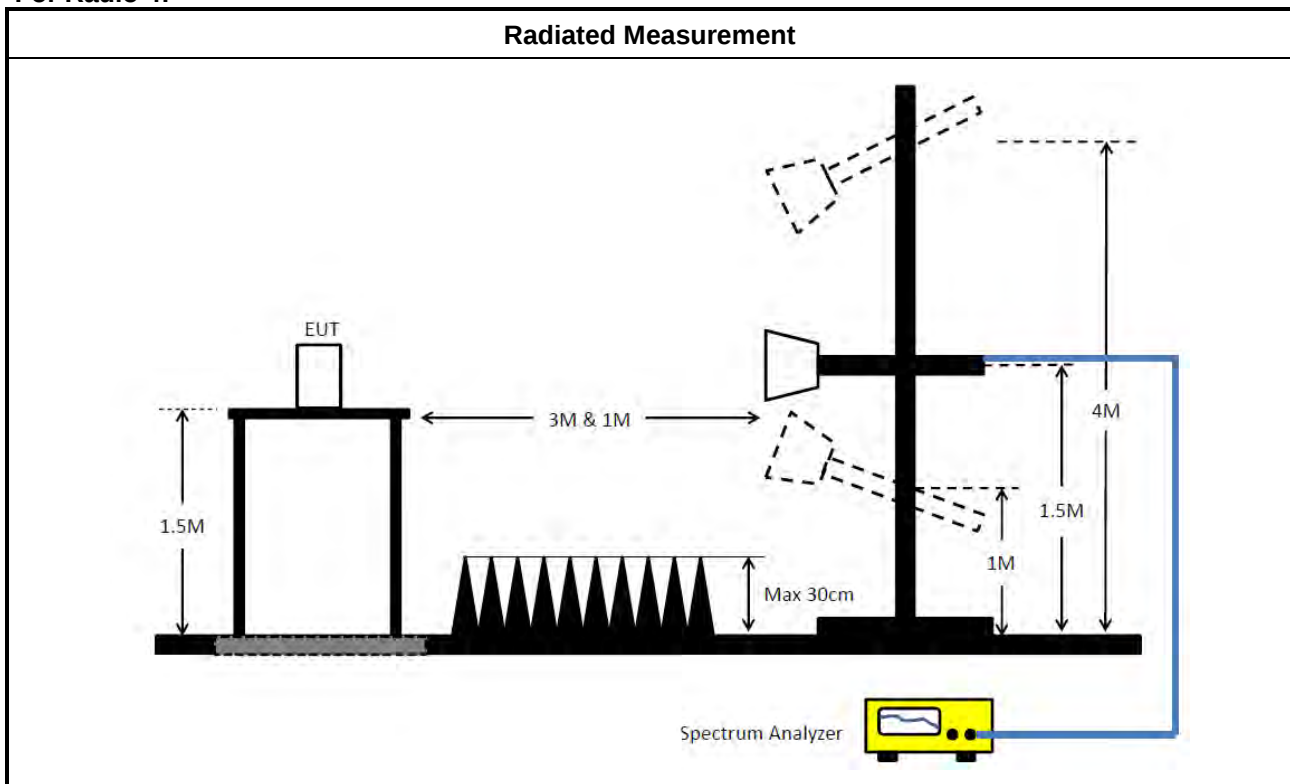
Test Method	
▪ According to FCC KDB 987594 D02 clause II.E, the test measurement procedure shall refer to KDB 789033.	
	Average over on/off periods with duty factor
	☒ For Radio 4: Refer as FCC KDB 789033 D02, clause E Method SA-2 (spectral trace averaging). Spectrum analyzer setting: RBW/VBW : 1/3MHz ; Detector : RMS ; Trace mode : Average ; Sweep Count 100.
	☐ Refer as FCC KDB 789033 D02, clause E Method SA-2 Alt. (RMS detection with slow sweep speed)
	Wideband RF power meter and average over on/off periods with duty factor
	☒ For Radio 1: Refer as FCC KDB 789033 D02, clause E Method PM-G (using an RF average power meter).
☒ For conducted measurement. (For Radio 1)	
	▪ If the EUT supports multiple transmit chains using options given below: Refer as FCC KDB 662911, In-band power measurements. Using the measure-and-sum approach, measured all transmit ports individually. Sum the power (in linear power units e.g., mW) of all ports for each individual sample and save them.
	▪ If multiple transmit chains, EIRP calculation could be following as methods: $P_{total} = P_1 + P_2 + \dots + P_n$ (calculated in linear unit [mW] and transfer to log unit [dBm]) $EIRP_{total} = P_{total} + DG$
☒ For radiated measurement. (For Radio 4)	
	▪ Refer as FCC KDB 789033 D02 clause II A.1.F "Antenna-port Conducted versus Radiated Testing"
	▪ Refer as ANSI C63.10, clause 6.6 for radiated emissions above 1GHz.
	▪ Refer as FCC KDB 412172 D01 clause 2.2 for EIRP calculation.

3.3.4 Test Setup

For Radio 1:



For Radio 4:



3.3.5 Test Result of Maximum Equivalent Isotropically Radiated Power (E.I.R.P)

Refer as Appendix C



3.4 Peak Power Spectral Density (E.I.R.P.)

3.4.1 Peak Power Spectral Density (E.I.R.P.) Limit

Peak Power Spectral Density (E.I.R.P.) Limit	
UNII Devices	
☒ For the 5.925 ~ 6.425 GHz band:	
	■ For standard power access point and fixed client device : e.i.r.p PSD < 23 dBm/MHz.
	■ For indoor access point : e.i.r.p PSD < 5 dBm/MHz.
	■ For subordinate device control of an indoor access point : e.i.r.p PSD < 5 dBm/MHz.
	■ For client device control of a standard power access point : e.i.r.p PSD < 17 dBm/MHz.
	■ For client device control of an indoor access point : e.i.r.p PSD < -1 dBm/MHz.
	■ For very low power device : e.i.r.p PSD < -5 dBm/MHz.
☐ For the 6.425 ~ 6.525 GHz band:	
	■ For indoor access point : e.i.r.p PSD < 5 dBm/MHz.
	■ For client device control of an indoor access point : e.i.r.p PSD < -1 dBm/MHz.
☒ For the 6.525 ~ 6.875 GHz band:	
	■ For standard power access point and fixed client device : e.i.r.p PSD < 23 dBm/MHz.
	■ For indoor access point : e.i.r.p PSD < 5 dBm/MHz.
	■ For subordinate device control of an indoor access point : e.i.r.p PSD < 5 dBm/MHz.
	■ For client device control of a standard power access point : e.i.r.p PSD < 17 dBm/MHz.
	■ For client device control of an indoor access point : e.i.r.p PSD < -1 dBm/MHz.
	■ For very low power device : e.i.r.p PSD < -5 dBm/MHz.
☐ For the 6.875 ~ 7.125 GHz band:	
	■ For indoor access point : e.i.r.p PSD < 5 dBm/MHz.
	■ For client device control of an indoor access point : e.i.r.p PSD < -1 dBm/MHz.
RLAN Devices	
☐ For the 5.925 ~ 7.125 GHz band:	
	■ For low-power indoor access-points & indoor subordinate devices < 5 dBm / MHz.
	■ For low-power client devices < -1 dBm / MHz.
	■ For very low-power devices < -5 dBm / MHz.
☐ For the 5.925 ~ 6.875 GHz band:	
	■ For standard-power access points & fixed client devices < 23 dBm / MHz.
	■ For standard client devices < 17 dBm / MHz.

3.4.2 Measuring Instruments

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



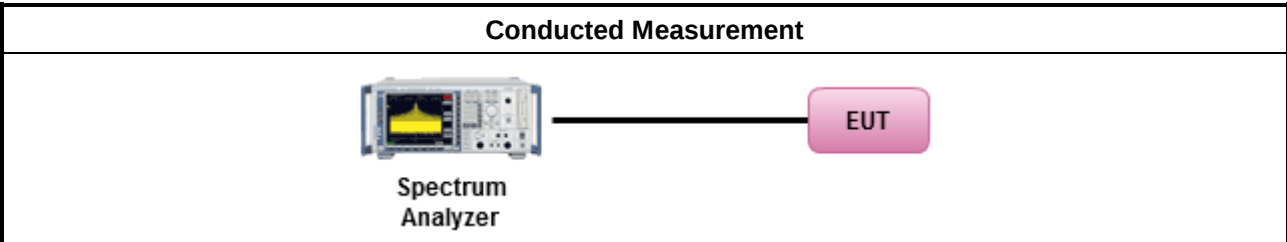
3.4.3 Test Procedures

Test Method	
According to FCC KDB 987594 D02 clause II.F, the measurement procedure shall refer to KDB 789033. Peak power spectral density procedures that the same method as used to determine the conducted output power shall be used to determine the peak power spectral density and use the peak search function on the spectrum analyzer to find the peak of the spectrum. For the peak power spectral density shall be measured using below options:	
☐	Refer as FCC KDB 789033 D02, F)5) power spectral density can be measured using resolution bandwidths < 1 MHz provided that the results are integrated over 1 MHz bandwidth
[duty cycle ≥ 98% or external video / power trigger]	
☒	Refer as FCC KDB 789033 D02, clause E Method SA-1 (spectral trace averaging).
☐	Refer as FCC KDB 789033 D02, clause E Method SA-1 Alt. (RMS detection with slow sweep speed)
duty cycle < 98% and average over on/off periods with duty factor	
☒	Refer as FCC KDB 789033 D02, clause E Method SA-2 (spectral trace averaging).
☐	Refer as FCC KDB 789033 D02, clause E Method SA-2 Alt. (RMS detection with slow sweep speed)
☒	For conducted measurement. (For Radio 1)
If the EUT supports multiple transmit chains using options given below:	
☒	Option 1: Measure and sum the spectra across the outputs. Refer as FCC KDB 662911, In-band power spectral density (PSD). Sample all transmit ports simultaneously using a spectrum analyzer for each transmit port. Where the trace bin-by-bin of each transmit port summing can be performed. (i.e., in the first spectral bin of output 1 is summed with that in the first spectral bin of output 2 and that from the first spectral bin of output 3, and so on up to the NTX output to obtain the value for the first frequency bin of the summed spectrum.). Add up the amplitude (power) values for the different transmit chains and use this as the new data trace.
☐	Option 2: Measure and sum spectral maxima across the outputs. With this technique, spectra are measured at each output of the device at the required resolution bandwidth. The maximum value (peak) of each spectrum is determined. These maximum values are then summed mathematically in linear power units across the outputs. These operations shall be performed separately over frequency spans that have different out-of-band or spurious emission limits,
☐	Option 3: Measure and add 10 log(N) dB, where N is the number of transmit chains. Refer as FCC KDB 662911, In-band power spectral density (PSD). Performed at each transmit chains and each transmit chains shall be compared with the limit have been reduced with 10 log(N). Or each transmit chains shall be add 10 log(N) to compared with the limit.
If multiple transmit chains, EIRP PPSD calculation could be following as methods: $PPSD_{total} = PPSD_1 + PPSD_2 + \dots + PPSD_n$ (calculated in linear unit [mW] and transfer to log unit [dBm]) $EIRP_{total} = PPSD_{total} + DG$	

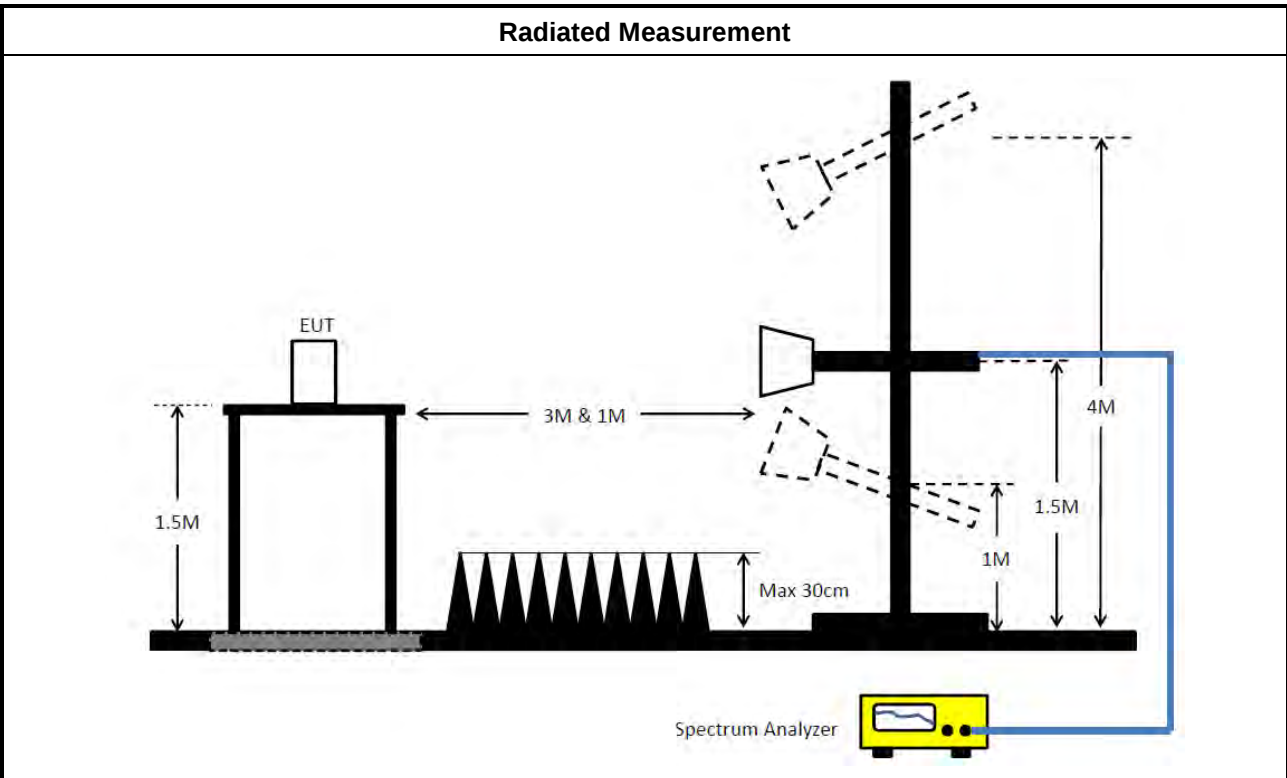
☒	For radiated measurement. (For Radio 4)
	- Refer as FCC KDB 789033 D02 clause II A.1.F "Antenna-port Conducted versus Radiated Testing" - Refer as ANSI C63.10, clause 6.6 for radiated emissions above 1GHz. - Refer as FCC KDB 412172 D01 clause 2.2 for EIRP calculation.

3.4.4 Test Setup

For Radio 1:



For Radio 4:



3.4.5 Test Result of Peak Power Spectral Density (E.I.R.P.)

Refer as Appendix D



3.5 Unwanted Emissions

3.5.1 Transmitter Unwanted Emissions Limit

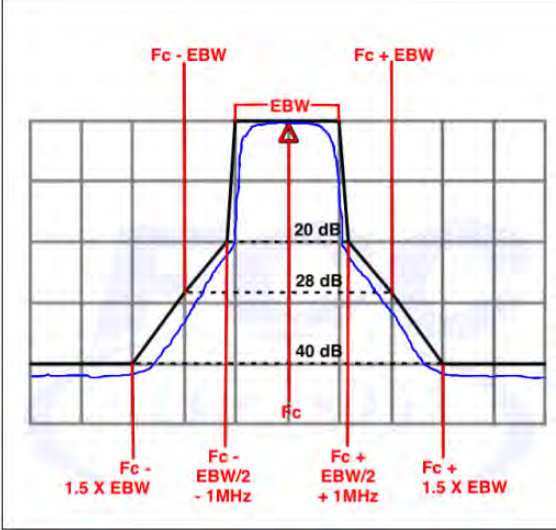
Unwanted emissions below 1 GHz and restricted band emissions above 1GHz limit			
Frequency Range (MHz)	Field Strength (uV/m)	Field Strength (dBuV/m)	Measure Distance (m)
0.009~0.490	2400/F(kHz)	48.5 - 13.8	300
0.490~1.705	24000/F(kHz)	33.8 - 23	30
1.705~30.0	30	29	30
30~88	100	40	3
88~216	150	43.5	3
216~960	200	46	3
Above 960	500	54	3

Note 1: Test distance for frequencies at or above 30 MHz, measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements).

Note 2: Test distance for frequencies at below 30 MHz, measurements may be performed at a distance closer than the EUT limit distance; however, an attempt should be made to avoid making measurements in the near field. When performing measurements below 30 MHz at a closer distance than the limit distance, the results shall be extrapolated to the specified distance by either making measurements at a minimum of two or more distances on at least one radial to determine the proper extrapolation factor or by using the square of an inverse linear distance extrapolation factor (40 dB/decade). The test report shall specify the extrapolation method used to determine compliance of the EUT.

Note 3: Using the distance of 1m during the test for above 18 GHz, and the test value to correct for the distance factor at 3m($20 \times \log(\text{standard distance}/\text{test distance}) = 20\log(3/1) = 9.54\text{dB}$).
EX. Above 18GHz emission limit calculation (3m to 1m) = $54\text{dBuV/m at 3m} + 9.54\text{dB} = 63.54\text{ dBuV/m at 1m}$.

Un-restricted band emissions above 1GHz Limit	
Frequency	Limit
Any outside the 5.925 – 7.125 GHz emission	e.i.r.p. -27 dBm [68.2 dBuV/m@3m] Note 1: Using the distance of 1m during the test for above 18 GHz, and the test value to correct for the distance factor at 3m($20 \times \log(\text{standard distance}/\text{test distance}) = 20\log(3/1) = 9.54\text{dB}$). EX. Above 18GHz emission limit calculation (3m to 1m) = $68.2\text{dBuV/m at 3m} + 9.54\text{dB} = 77.74\text{ dBuV/m at 1m}$. Note 2:-27 dBm EIRP OOBE is measured RMS which is a deviation from the current 15E rules for 5 GHz bands. In addition, 15.35(b) applies where the peak emissions must be limited to no more than 20 dB above the average limit.

Frequency	Emission MASK Limit
5.925 – 7.125 GHz	Power spectral density must be suppressed by 20 dB at 1 MHz outside of channel edge, by 28 dB at one channel bandwidth from the channel center, and by 40 dB at one- and one-half times the channel bandwidth away from channel center. At frequencies between one megahertz outside an unlicensed device's channel edge and one channel bandwidth from the center of the channel, the limits must be linearly interpolated between 20 dB and 28 dB suppression, and at frequencies between one and one- and one-half times an unlicensed device's channel bandwidth, the limits must be linearly interpolated between 28 dB and 40 dB suppression. Emissions removed from the channel center by more than one- and one-half times the channel bandwidth must be suppressed by at least 40 dB. 



3.5.2 Measuring Instruments

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

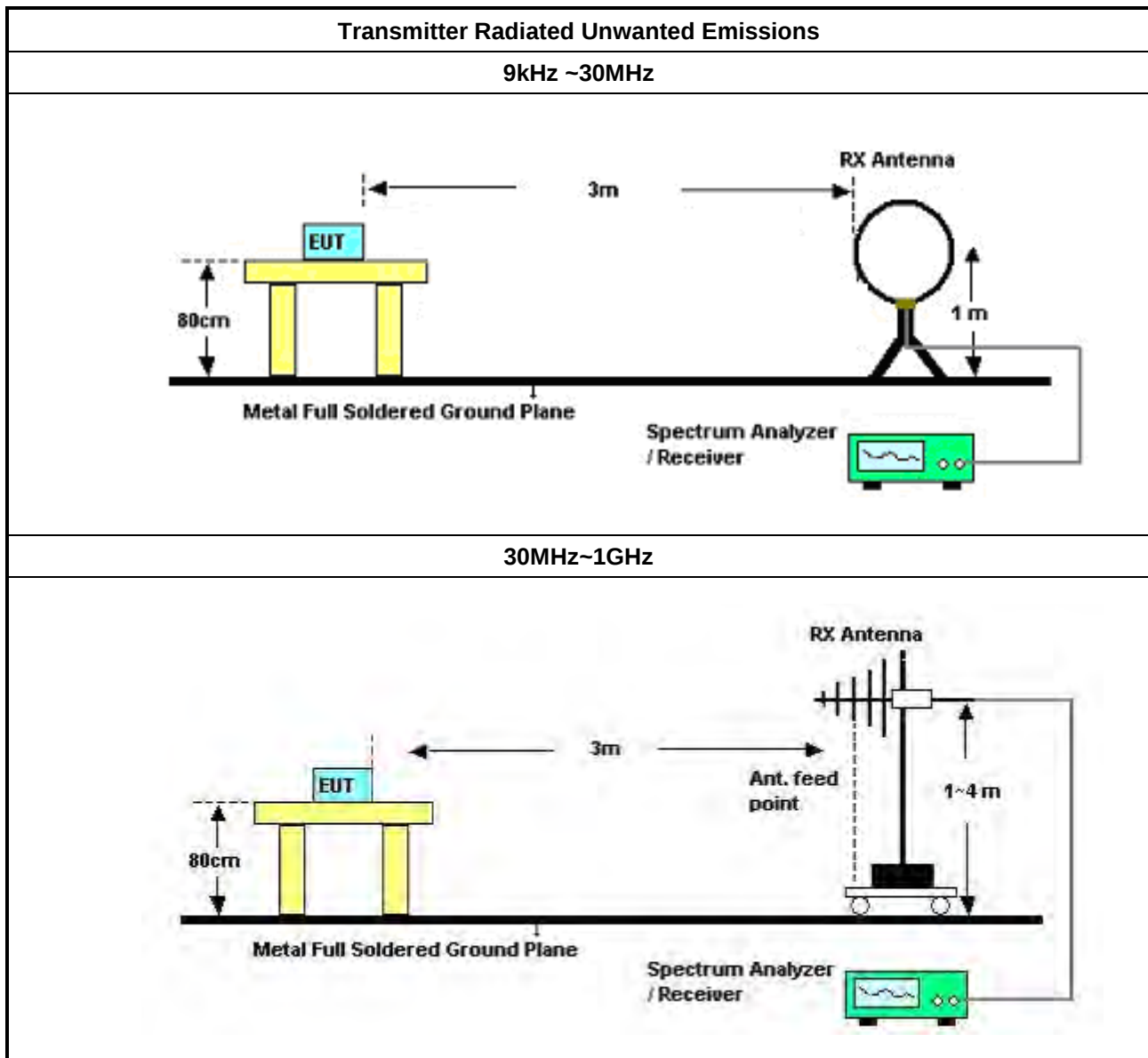
3.5.3 Test Procedures

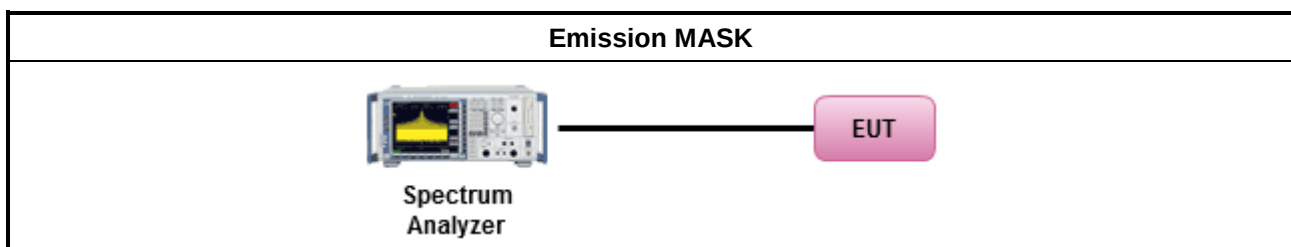
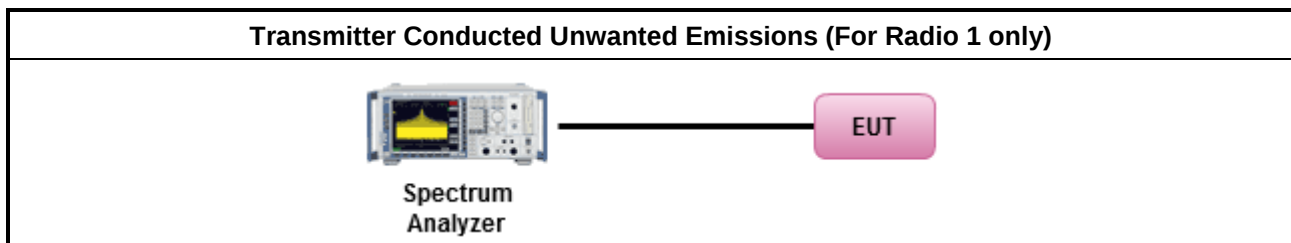
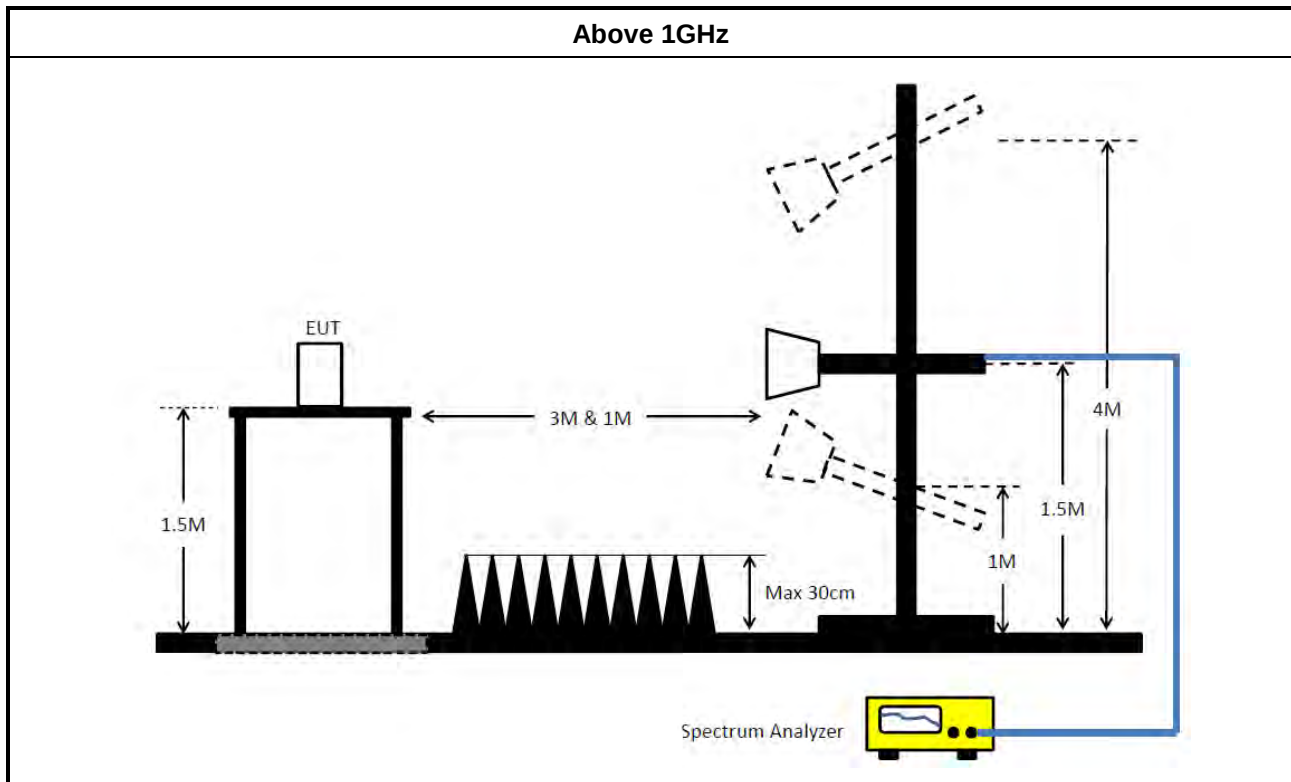
Test Method	
According to FCC KDB 987594 D02 II.G. the unwanted emission measurement procedure shall refer to KDB 789300(except emission MASK). Measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. Measurements shall not be performed at a distance greater than 30 m for frequencies above 30 MHz, unless it can be further demonstrated that measurements at a distance of 30 m or less are impractical. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements).	
The average emission levels shall be measured in [duty cycle $\geq$ 98 or duty factor].	
For the transmitter unwanted emissions shall be measured using following options below:	
	Refer as FCC KDB 789033 D02, clause G)2) for unwanted emissions into non-restricted bands.
	Refer as FCC KDB 789033 D02, clause G)1) for unwanted emissions into restricted bands.
	☒ Refer as FCC KDB 789033 D02, G)6) Method AD (Trace Averaging). (For unrestricted band measurement)
	☐ Refer as FCC KDB 789033 D02, G)6) Method VB (Reduced VBW).
	☒ Refer as ANSI C63.10, clause 11.12.2.5.3 (Reduced VBW). VBW $\geq$ 1/T, where T is pulse time.(For restricted band average measurement)
	☐ Refer as ANSI C63.10, clause 7.5 average value of pulsed emissions.
	☒ Refer as FCC KDB 789033 D02, clause G)5) measurement procedure peak limit.
	☐ Refer as ANSI C63.10, clause 4.1.4.2.2 measurement procedure peak limit.
Refer as FCC KDB 789033 D02, clause G)3)d)ii) for Band edge Integration measurements.	
For emission MASK shall be measured using following options below:	
	☒ Refer as FCC KDB 987594 D02, J) In-Band Emissions
For radiated measurement.	
	Refer as ANSI C63.10, clause 6.4 for radiated emissions below 30 MHz and test distance is 3m.
	Refer as ANSI C63.10, clause 6.5 for radiated emissions 30 MHz to 1 GHz and test distance is 3m.
	Refer as ANSI C63.10, clause 6.6 for radiated emissions above 1GHz.
The any unwanted emissions level shall not exceed the fundamental emission level.	
All amplitude of spurious emissions that are attenuated by more than 20 dB below the permissible value has no need to be reported.	

**For Radio 1 only:**

Test Method	
▪ For conducted and cabinet radiation measurement, refer as FCC KDB 789033 D02, clause G)3).	
	▪ For conducted unwanted emissions into non-restricted bands (relative emission limits). Devices with multiple transmit chains: Refer as FCC KDB 662911, when testing out-of-band and spurious emissions against relative emission limits, tests may be performed on each output individually without summing or adding 10 log(N) if the measurements are made relative to the in-band emissions on the individual outputs.
	▪ For conducted unwanted emissions into restricted bands (absolute emission limits). Devices with multiple transmit chains using options given below: (1) Measure and sum the spectra across the outputs or (2) Measure and add 10 log(N) dB
	▪ For FCC KDB 662911 The methodology described here may overestimate array gain, thereby resulting in apparent failures to satisfy the out-of-band limits even if the device is actually compliant. In such cases, compliance may be demonstrated by performing radiated tests around the frequencies at which the apparent failures occurred.

3.5.4 Test Setup







3.5.5 Measurement Results Calculation

The measured Level is calculated using:

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

3.5.6 Transmitter Unwanted Emissions (Below 30MHz)

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

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

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

3.5.7 Test Result of Transmitter Unwanted Emissions

Refer as Appendix E



4 Test Equipment and Calibration Data

Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
EMI Receiver	Agilent	N9038A	My52260123	9kHz ~ 8.4GHz	Mar. 06, 2025	Mar. 05, 2026	Conduction (CO01-CB)
LISN	F.C.C.	FCC-LISN-50-16-2	04083	150kHz ~ 100MHz	Feb. 18, 2025	Feb. 17, 2026	Conduction (CO01-CB)
LISN	Schwarzbeck	NSLK 8127	8127478	9kHz ~ 30MHz	Feb. 06, 2025	Feb. 05, 2026	Conduction (CO01-CB)
Pulse Limiter	Rohde& Schwarz	ESH3-Z2	100430	9kHz ~ 30MHz	Oct. 16, 2024	Oct. 15, 2025	Conduction (CO01-CB)
COND Cable	Woken	Cable	Low cable-CO01	9kHz ~ 30MHz	Oct. 16, 2024	Oct. 15, 2025	Conduction (CO01-CB)
Test Software	SPORTON	SENSE-EMI	V5.11	150kHz-30MHz	N.C.R.	N.C.R.	Conduction (CO01-CB)
Loop Antenna	Teseq	HLA 6121	65417	9kHz - 30MHz	Oct. 16, 2024	Oct. 15, 2025	Radiation (03CH05-CB)
3m Semi Anechoic Chamber NSA	TDK	SAC-3M	03CH05-CB	30 MHz ~ 1 GHz	Aug. 01, 2024	Jul. 31, 2025	Radiation (03CH05-CB)
Bilog Antenna with 6dB Attenuator	TESEQ & EMCI	CBL 6112D & N-6-06	35236 & AT-N0610	30MHz ~ 2GHz	Mar. 23, 2024	Mar. 22, 2025	Radiation (03CH05-CB)
Amplifier	EMCI	EMC330N	980331	20MHz ~ 3GHz	May 02, 2024	May 01, 2025	Radiation (03CH05-CB)
Spectrum Analyzer	R&S	FSP40	100304	9kHz ~ 40GHz	Apr. 17, 2024	Apr. 16, 2025	Radiation (03CH05-CB)
EMI Test Receiver	R&S	ESR7	102172	9kHz ~ 7GHz	Oct. 21, 2024	Oct. 20, 2025	Radiation (03CH05-CB)
RF Cable-low	Woken	RG402	Low Cable-04+23	30MHz~1GHz	Oct. 01, 2024	Sep. 30, 2025	Radiation (03CH05-CB)
3m Semi Anechoic Chamber VSWR	TDK	SAC-3M	03CH05-CB	1GHz ~18GHz 3m	Sep. 28, 2024	Sep. 27, 2025	Radiation (03CH05-CB)
Horn Antenna	SCHWARZBECK	BBHA9120D	BBHA 9120 D-1291	1GHz~18GHz	Jun. 20, 2024	Jun. 19, 2025	Radiation (03CH05-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Sep. 23, 2024	Sep. 22, 2025	Radiation (03CH05-CB)
Pre-Amplifier	EMCI	EMC12630SE	980287	1GHz ~ 26.5GHz	Jun. 29, 2024	Jun. 28, 2025	Radiation (03CH05-CB)
Pre-Amplifier	SGH	SGH184	20221107-3	18GHz ~ 40GHz	Nov. 25, 2024	Nov. 24, 2025	Radiation (03CH05-CB)
RF Cable-high	Woken	RG402	High Cable-28	1GHz~18GHz	Oct. 01, 2024	Sep. 30, 2025	Radiation (03CH05-CB)



Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
RF Cable-high	Woken	RG402	High Cable-04+28	1GHz~18GHz	Oct. 01, 2024	Sep. 30, 2025	Radiation (03CH05-CB)
Band Rejector	MTJ	6G Band Rejector	BRJ-01	1GHz ~ 7.4GHz	Oct. 03, 2023	Oct. 02, 2024	Radiation (03CH05-CB)
Band Rejector	MTJ	6G Band Rejector	BRJ-02	1GHz ~ 8GHz	Oct. 03, 2023	Oct. 02, 2024	Radiation (03CH05-CB)
High Cable	Woken	WCA0929M	40G#5+6	1GHz ~ 40 GHz	Oct. 01, 2024	Sep. 30, 2025	Radiation (03CH05-CB)
Test Software	SPORTON	SENSE-EMI	V5.11.8	30MHz-40GHz	N.C.R.	N.C.R.	Radiation (03CH05-CB)
Test Software	SPORTON	SENSE-15407_NII	V5.11. 23	5.15GHz-7.115GHz	N.C.R.	N.C.R.	Radiation (03CH05-CB)
3m Semi Anechoic Chamber VSWR	TDK	SAC-3M	03CH06-CB	1GHz ~18GHz 3m	Oct. 08, 2024	Oct. 07, 2025	Radiation (03CH06-CB)
Horn Antenna	SCHWARZBECK	BBHA9120D	BBHA 9120D-1292	1GHz~18GHz	Jul. 29, 2024	Jul. 28, 2025	Radiation (03CH06-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Sep. 23, 2024	Sep. 22, 2025	Radiation (03CH06-CB)
Pre-Amplifier	EMCI	EMC12630SE	980383	1GHz ~ 18GHz	Jul. 31, 2024	Jul. 30, 2025	Radiation (03CH06-CB)
Pre-Amplifier	SGH	SGH184	20221107-3	18GHz ~ 40GHz	Nov. 25, 2024	Nov. 24, 2025	Radiation (03CH06-CB)
Signal analyzer	R&S	FSV3044	101667	9kHz~44GHz	Aug. 20, 2024	Aug. 19, 2025	Radiation (03CH06-CB)
RF Cable-high	Woken	RG402	High Cable-05+68	1GHz~18GHz	Oct. 01, 2024	Sep. 30, 2025	Radiation (03CH06-CB)
High Cable	Woken	WCA0929M	40G#5+6	1GHz ~ 40 GHz	Oct. 01, 2024	Sep. 30, 2025	Radiation (03CH06-CB)
Band Rejector	MTJ	6G Band Rejector	BRJ-01	1GHz ~ 7.4GHz	Oct. 02, 2024	Oct. 01, 2025	Radiation (03CH06-CB)
Band Rejector	MTJ	6G Band Rejector	BRJ-02	1GHz ~ 8GHz	Oct. 02, 2024	Oct. 01, 2025	Radiation (03CH06-CB)
Test Software	SPORTON	SENSE-15407_NII	V5.11. 23	5.15GHz-7.115GHz	N.C.R.	N.C.R.	Radiation (03CH06-CB)
3m Semi Anechoic Chamber VSWR	TDK	SAC-3M	03CH01-CB	1GHz ~18GHz 3m	May 04, 2024	May 03, 2025	Radiation (03CH01-CB)
Horn Antenna	ETS-Lindgren	3115	00143147	750MHz~18GHz z	Oct. 18, 2024	Oct. 17, 2025	Radiation (03CH01-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Sep. 23, 2024	Sep. 22, 2025	Radiation (03CH01-CB)
Pre-Amplifier	Agilent	8449B	3008A02121	1GHz ~ 26.5GHz	May 17, 2024	May 16, 2025	Radiation (03CH01-CB)



Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
Pre-Amplifier	SGH	SGH184	20221107-3	18GHz ~ 40GHz	Nov. 25, 2024	Nov. 24, 2025	Radiation (03CH01-CB)
Signal Analyzer	R&S	FSV3044	101437	10kHz ~ 44GHz	Dec. 12, 2024	Dec. 11, 2025	Radiation (03CH01-CB)
RF Cable-high	Woken	RG402	High Cable-16	1 GHz ~ 18 GHz	Oct. 01, 2024	Sep. 30, 2025	Radiation (03CH01-CB)
RF Cable-high	Woken	RG402	High Cable-16+17	1 GHz ~ 18 GHz	Oct. 01, 2024	Sep. 30, 2025	Radiation (03CH01-CB)
High Cable	Woken	WCA0929M	40G#5+6	1GHz ~ 40 GHz	Oct. 01, 2024	Sep. 30, 2025	Radiation (03CH01-CB)
Band Rejector	MTJ	6G Band Rejector	BRJ-01	1GHz ~ 7.4GHz	Oct. 02, 2024	Oct. 01, 2025	Radiation (03CH01-CB)
Band Rejector	MTJ	6G Band Rejector	BRJ-02	1GHz ~ 8GHz	Oct. 02, 2024	Oct. 01, 2025	Radiation (03CH01-CB)
Test Software	SPORTON	SENSE-15407_NII	V5.11. 23	5.15GHz-7.115GHz	N.C.R.	N.C.R.	Radiation (03CH01-CB)
3m Semi Anechoic Chamber VSWR	RIKEN	SAC-3M	03CH02-CB	1GHz ~18GHz	Mar. 24, 2024	Mar. 23, 2025	Radiation (03CH02-CB)
3m Semi Anechoic Chamber VSWR	RIKEN	SAC-3M	03CH02-CB	1GHz ~18GHz	Mar. 23, 2025	Mar. 22, 2026	Radiation (03CH02-CB)
Horn Antenna	EMCO	3115	9610-4976	1GHz ~ 18GHz	Apr. 12, 2024	Apr. 11, 2025	Radiation (03CH02-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Sep. 23, 2024	Sep. 22, 2025	Radiation (03CH02-CB)
Pre-Amplifier	Agilent	83017A	MY39501305	1GHz ~ 26.5GHz	Jun. 29, 2024	Jun. 28, 2025	Radiation (03CH02-CB)
Pre-Amplifier	SGH	SGH184	20221107-3	18GHz ~ 40GHz	Nov. 25, 2024	Nov. 24, 2025	Radiation (03CH02-CB)
Signal Analyzer	R&S	FSV3044	101536	10kHz ~ 44GHz	Aug. 14, 2024	Aug. 13, 2025	Radiation (03CH02-CB)
RF Cable-high	Woken	RG402	High Cable-18	1GHz ~ 18GHz	Jun. 20, 2024	Jun. 19, 2025	Radiation (03CH02-CB)
RF Cable-high	Woken	RG402	High Cable-18+19	1GHz ~ 18GHz	Jun. 20, 2024	Jun. 19, 2025	Radiation (03CH02-CB)
High Cable	Woken	WCA0929M	40G#5+6	1GHz ~ 40 GHz	Oct. 01, 2024	Sep. 30, 2025	Radiation (03CH02-CB)
Band Rejector	MTJ	6G Band Rejector	BRJ-01	1GHz ~ 7.4GHz	Oct. 02, 2024	Oct. 01, 2025	Radiation (03CH02-CB)
Band Rejector	MTJ	6G Band Rejector	BRJ-02	1GHz ~ 8GHz	Oct. 02, 2024	Oct. 01, 2025	Radiation (03CH02-CB)
Test Software	SPORTON	SENSE-15407_NII	V5.11. 23	5.15GHz-7.115GHz	N.C.R.	N.C.R.	Radiation (03CH02-CB)



Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
3m Semi Anechoic Chamber VSWR	TDK	SAC-3M	03CH03-CB	1GHz ~18GHz 3m	May 03, 2024	May 02, 2025	Radiation (03CH03-CB)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1370	1GHz~18GHz	Jul. 11, 2024	Jul. 10, 2025	Radiation (03CH03-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Sep. 23, 2024	Sep. 22, 2025	Radiation (03CH03-CB)
Pre-Amplifier	Agilent	8449B	3008A02097	1GHz ~ 26.5GHz	Jun. 29, 2024	Jun. 28, 2025	Radiation (03CH03-CB)
Pre-Amplifier	SGH	SGH184	20221107-3	18GHz ~ 40GHz	Nov. 25, 2024	Nov. 24, 2025	Radiation (03CH03-CB)
Spectrum Analyzer	R&S	FSP40	100019	9kHz ~ 40GHz	Jun. 11, 2024	Jun. 10, 2025	Radiation (03CH03-CB)
RF Cable-high	Woken	RG402	High Cable-20+29	1GHz ~ 18GHz	Oct. 01, 2024	Sep. 30, 2025	Radiation (03CH03-CB)
RF Cable-high	Woken	RG402	High Cable-29	1GHz ~ 18GHz	Oct. 01, 2024	Sep. 30, 2025	Radiation (03CH03-CB)
High Cable	Woken	WCA0929M	40G#5+6	1GHz ~ 40 GHz	Oct. 01, 2024	Sep. 30, 2025	Radiation (03CH03-CB)
Band Rejector	MTJ	6G Band Rejector	BRJ-01	1GHz ~ 7.4GHz	Oct. 02, 2024	Oct. 01, 2025	Radiation (03CH03-CB)
Band Rejector	MTJ	6G Band Rejector	BRJ-02	1GHz ~ 8GHz	Oct. 02, 2024	Oct. 01, 2025	Radiation (03CH03-CB)
Test Software	SPORTON	SENSE-15407 _NII	V5.11. 23	5.15GHz- 7.115GHz	N.C.R.	N.C.R.	Radiation (03CH03-CB)
3m Semi Anechoic Chamber VSWR	TDK	SAC-3M	03CH04-CB	1GHz ~18GHz 3m	Feb. 22, 2024	Feb. 21, 2025	Radiation (03CH04-CB)
3m Semi Anechoic Chamber VSWR	TDK	SAC-3M	03CH04-CB	1GHz ~18GHz 3m	Feb. 21, 2025	Feb. 20, 2026	Radiation (03CH04-CB)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	BBHA 9120D-01816	1GHz~18GHz	Dec. 20, 2023	Dec. 19, 2024	Radiation (03CH04-CB)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	BBHA 9120D-01816	1GHz~18GHz	Dec. 20, 2024	Dec. 19, 2025	Radiation (03CH04-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Sep. 23, 2024	Sep. 22, 2025	Radiation (03CH04-CB)
Pre-Amplifier	SGH	SGH5265	20211115-1	1~ 26.5GHz	Jan. 17, 2024	Jan. 16, 2025	Radiation (03CH04-CB)
Pre-Amplifier	SGH	SGH5265	20211115-1	1~ 26.5GHz	Jan. 16, 2025	Jan. 15, 2026	Radiation (03CH04-CB)
Pre-Amplifier	SGH	SGH184	20221107-3	18GHz ~ 40GHz	Nov. 25, 2024	Nov. 24, 2025	Radiation (03CH04-CB)



Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
Signal Analyzer	R&S	FSV40	101904	9kHz ~ 40GHz	Apr. 26, 2024	Apr. 25, 2025	Radiation (03CH04-CB)
RF Cable-high	Woken	RG402	High Cable-21	1GHz - 18GHz	Oct. 01, 2024	Sep. 30, 2025	Radiation (03CH04-CB)
RF Cable-high	Woken	RG402	High Cable-21+67	1GHz - 18GHz	Oct. 01, 2024	Sep. 30, 2025	Radiation (03CH04-CB)
High Cable	Woken	WCA0929M	40G#5+6	1GHz ~ 40 GHz	Oct. 01, 2024	Sep. 30, 2025	Radiation (03CH04-CB)
Band Rejector	MTJ	6G Band Rejector	BRJ-01	1GHz ~ 7.4GHz	Oct. 02, 2024	Oct. 01, 2025	Radiation (03CH04-CB)
Band Rejector	MTJ	6G Band Rejector	BRJ-02	1GHz ~ 8GHz	Oct. 02, 2024	Oct. 01, 2025	Radiation (03CH04-CB)
Test Software	SPORTON	SENSE-15407_NII	V5.11. 23	5.15GHz-7.115GHz	N.C.R.	N.C.R.	Radiation (03CH04-CB)
Signal Analyzer	R&S	FSV40	101903	9kHz ~ 40GHz	Jun. 11, 2024	Jun. 10, 2025	Conducted (TH03-CB)
Power Sensor	Anritsu	MA2411B	1726195	300MHz~40GHz	Sep. 06, 2024	Sep. 05, 2025	Conducted (TH03-CB)
Power Meter	Anritsu	ML2495A	1035008	300MHz~40GHz	Sep. 06, 2024	Sep. 05, 2025	Conducted (TH03-CB)
RF Cable	Woken	RG402	High Cable-11	30MHz ~18 GHz	Oct. 01, 2024	Sep. 30, 2025	Conducted (TH03-CB)
RF Cable	Woken	RG402	High Cable-12	30MHz ~18 GHz	Oct. 01, 2024	Sep. 30, 2025	Conducted (TH03-CB)
RF Cable	Woken	RG402	High Cable-13	30MHz ~18 GHz	Oct. 01, 2024	Sep. 30, 2025	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-14	1 GHz ~18 GHz	Oct. 01, 2024	Sep. 30, 2025	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-15	1 GHz ~18 GHz	Oct. 01, 2024	Sep. 30, 2025	Conducted (TH03-CB)
High Cable	Woken	WCA0929M	40G#5+6	1GHz ~ 40 GHz	Oct. 01, 2024	Sep. 30, 2025	Conducted (TH03-CB)
Switch	SPTCB	SP-SWI	SWI-03	1~18GHz	Oct. 02, 2024	Oct. 01, 2025	Conducted (TH03-CB)
Test Software	SPORTON	SENSE-15407_NII	V5.11. 23	5.15GHz-7.115GHz	N.C.R.	N.C.R.	Conducted (TH03-CB)

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

NCR means Non-Calibration required.



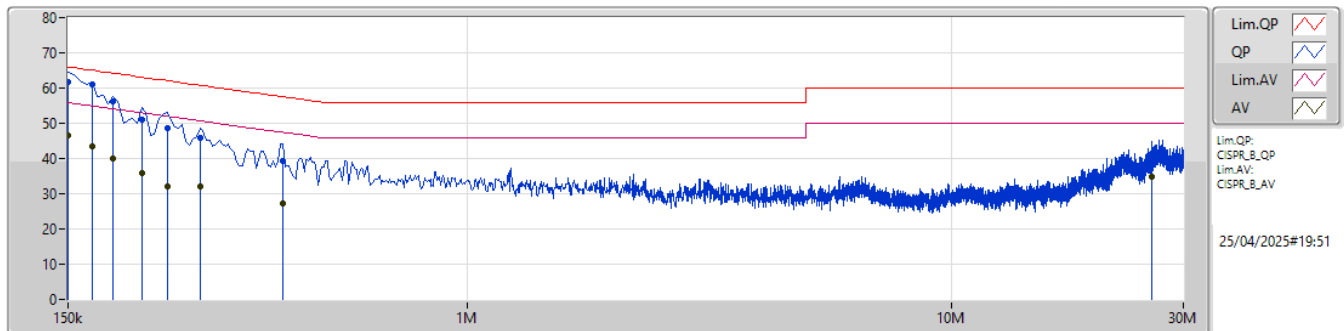
Conducted Emissions at Powerline
(Variant Device / FCC ID: UDX-600216020)

Appendix A

Summary

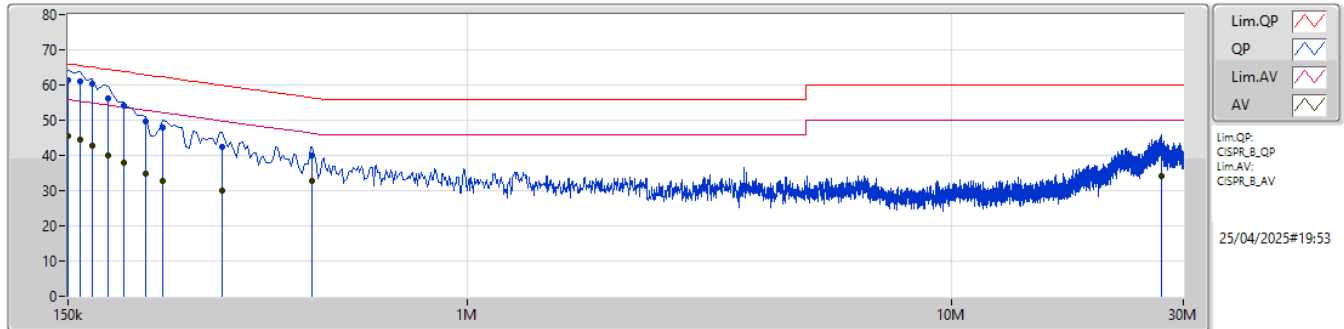
Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	QP	168k	60.94	65.06	-4.12	Line

Mode 1



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)						
QP	150k	61.79	66.00	-4.21	10.03	Line	-	51.76	0.04	0.08	9.91						
AV	150k	46.59	56.00	-9.41	10.03	Line	-	36.56	0.04	0.08	9.91						
QP	168k	60.94	65.06	-4.12	10.05	Line	"Worst"	50.89	0.04	0.08	9.93						
AV	168k	43.32	55.06	-11.74	10.05	Line	-	33.27	0.04	0.08	9.93						
QP	186k	56.15	64.20	-8.05	10.05	Line	-	46.10	0.04	0.07	9.94						
AV	186k	40.15	54.20	-14.05	10.05	Line	-	30.10	0.04	0.07	9.94						
QP	213k	51.10	63.09	-11.99	10.07	Line	-	41.03	0.04	0.07	9.96						
AV	213k	35.81	53.09	-17.28	10.07	Line	-	25.74	0.04	0.07	9.96						
QP	240k	48.50	62.10	-13.60	10.10	Line	-	38.40	0.04	0.08	9.98						
AV	240k	32.22	52.10	-19.88	10.10	Line	-	22.12	0.04	0.08	9.98						
QP	280.5k	45.87	60.80	-14.93	10.12	Line	-	35.75	0.04	0.08	10.00						
AV	280.5k	31.95	50.80	-18.85	10.12	Line	-	21.83	0.04	0.08	10.00						
QP	415.5k	39.16	57.53	-18.37	10.20	Line	-	28.96	0.04	0.10	10.06						
AV	415.5k	27.26	47.53	-20.27	10.20	Line	-	17.06	0.04	0.10	10.06						
QP	25.89M	40.76	60.00	-19.24	10.65	Line	-	30.11	0.38	0.31	9.96						
AV	25.89M	34.69	50.00	-15.31	10.65	Line	-	24.04	0.38	0.31	9.96						

Mode 1



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)						
QP	150k	61.31	66.00	-4.69	10.03	Neutral	-	51.28	0.04	0.08	9.91						
AV	150k	45.61	56.00	-10.39	10.03	Neutral	-	35.58	0.04	0.08	9.91						
QP	159k	61.16	65.52	-4.36	10.04	Neutral	"Worst"	51.12	0.04	0.08	9.92						
AV	159k	44.63	55.52	-10.89	10.04	Neutral	-	34.59	0.04	0.08	9.92						
QP	168k	60.20	65.06	-4.86	10.05	Neutral	-	50.15	0.04	0.08	9.93						
AV	168k	42.88	55.06	-12.18	10.05	Neutral	-	32.83	0.04	0.08	9.93						
QP	181.5k	56.19	64.41	-8.22	10.05	Neutral	-	46.14	0.04	0.07	9.94						
AV	181.5k	39.84	54.41	-14.57	10.05	Neutral	-	29.79	0.04	0.07	9.94						
QP	195k	54.06	63.82	-9.76	10.06	Neutral	-	44.00	0.04	0.07	9.95						
AV	195k	37.90	53.82	-15.92	10.06	Neutral	-	27.84	0.04	0.07	9.95						
QP	217.5k	49.64	62.92	-13.28	10.07	Neutral	-	39.57	0.04	0.07	9.96						
AV	217.5k	34.97	52.92	-17.95	10.07	Neutral	-	24.90	0.04	0.07	9.96						
QP	235.5k	48.10	62.25	-14.15	10.10	Neutral	-	38.00	0.04	0.08	9.98						
AV	235.5k	32.75	52.25	-19.50	10.10	Neutral	-	22.65	0.04	0.08	9.98						
QP	312k	42.56	59.92	-17.36	10.15	Neutral	-	32.41	0.04	0.09	10.02						
AV	312k	29.90	49.92	-20.02	10.15	Neutral	-	19.75	0.04	0.09	10.02						
QP	478.5k	39.91	56.36	-16.45	10.22	Neutral	-	29.69	0.04	0.10	10.08						
AV	478.5k	32.88	46.36	-13.48	10.22	Neutral	-	22.66	0.04	0.10	10.08						
QP	26.966M	40.87	60.00	-19.13	10.72	Neutral	-	30.15	0.44	0.32	9.96						
AV	26.966M	34.09	50.00	-15.91	10.72	Neutral	-	23.37	0.44	0.32	9.96						



Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.925-6.425GHz	-	-	-	-	-
802.11ax HEW20_Nss1,(MCS0)_1TX	20.955M	18.89M	18M9D1D	20.24M	18.857M
6.525-6.875GHz	-	-	-	-	-
802.11ax HEW20_Nss1,(MCS0)_1TX	20.46M	18.91M	18M9D1D	19.855M	18.874M

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



EBW_R1
(Variant Device / FCC ID: UDX-600216020)

Appendix B.1

Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
802.11ax HEW20_Nss1,(MCS0)_1TX	-	-	-	-
5955MHz	Pass	Inf	20.24M	18.872M
6195MHz	Pass	Inf	20.955M	18.89M
6415MHz	Pass	Inf	20.46M	18.857M
6535MHz	Pass	Inf	19.855M	18.91M
6695MHz	Pass	Inf	20.46M	18.906M
6855MHz	Pass	Inf	20.405M	18.874M

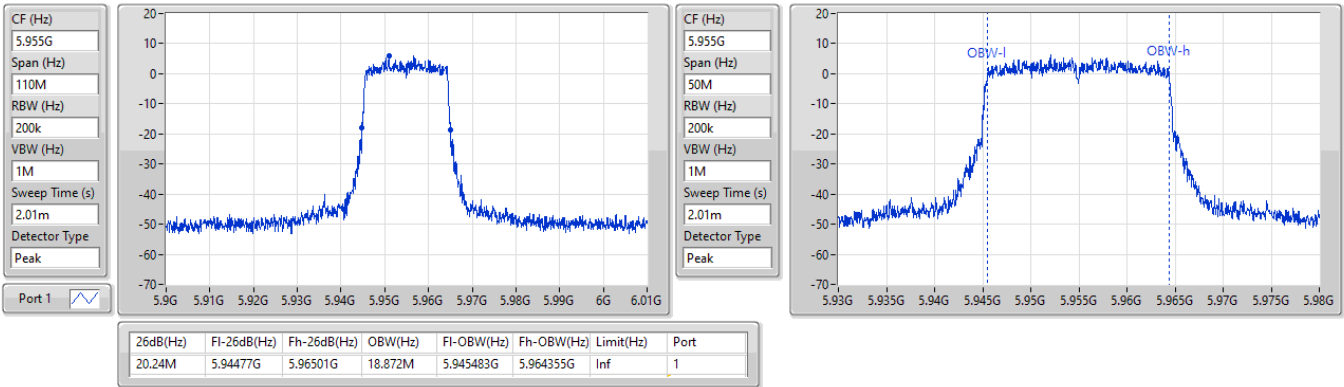
Port X-N dB = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band
Port X-OBW = Port X 99% occupied bandwidth

5.925-6.425GHz_802.11ax HEW20_Nss1,(MCS0)_1TX

EBW

5955MHz

12/02/2025

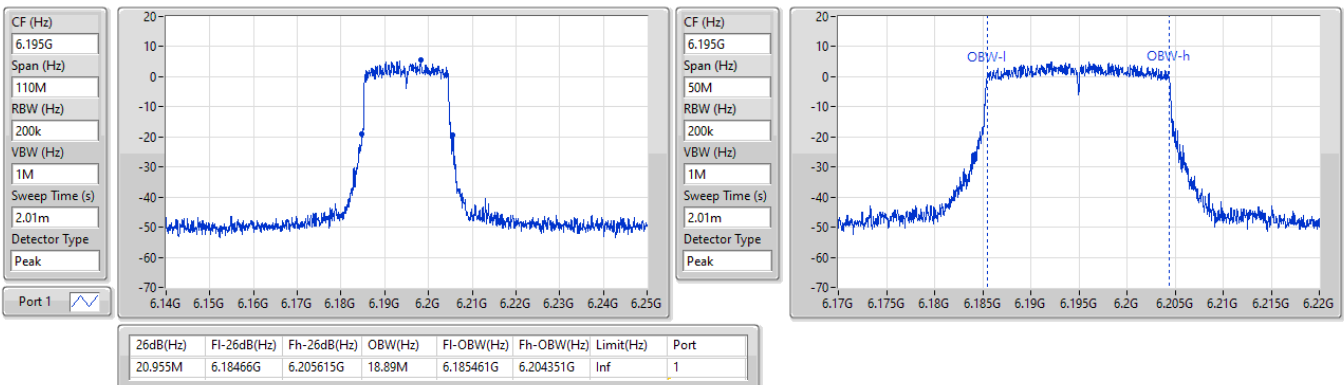


5.925-6.425GHz_802.11ax HEW20_Nss1,(MCS0)_1TX

EBW

6195MHz

12/02/2025

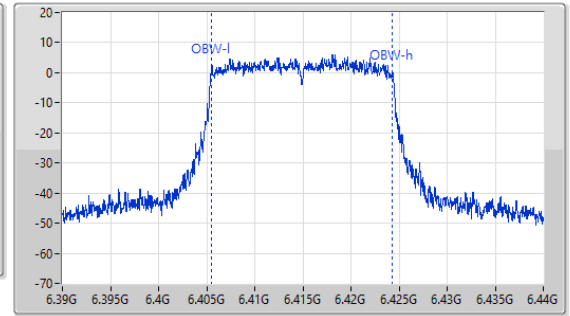
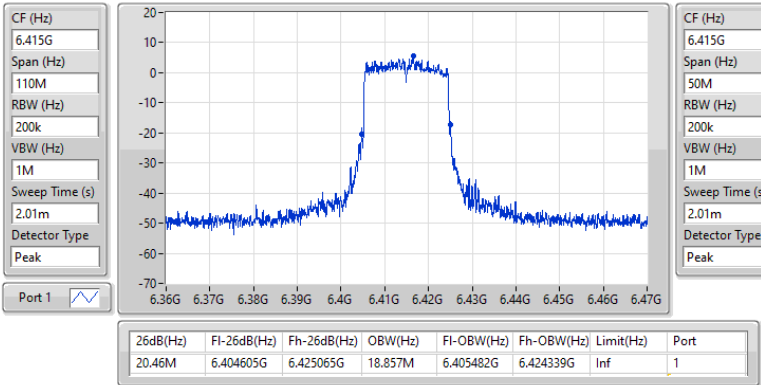


5.925-6.425GHz_802.11ax HEW20_Nss1,(MCS0)_1TX

EBW

6415MHz

12/02/2025

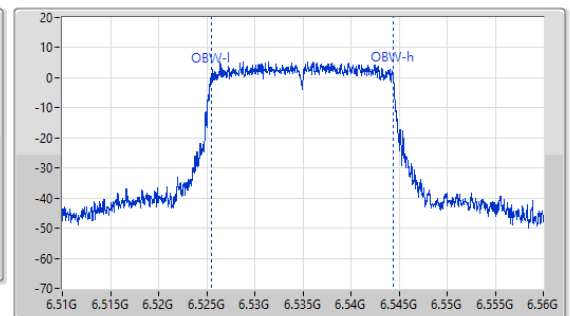
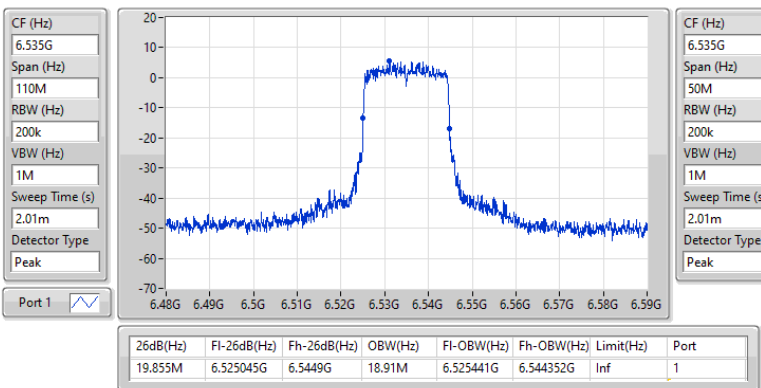


6.525-6.875GHz_802.11ax HEW20_Nss1,(MCS0)_1TX

EBW

6535MHz

12/02/2025

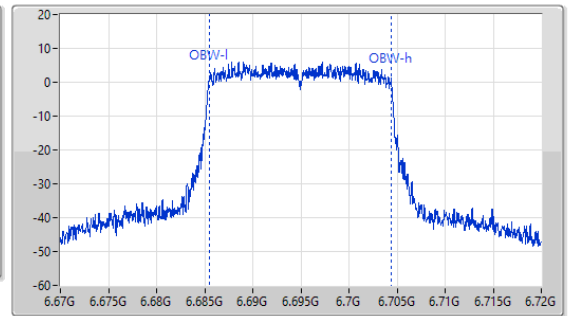
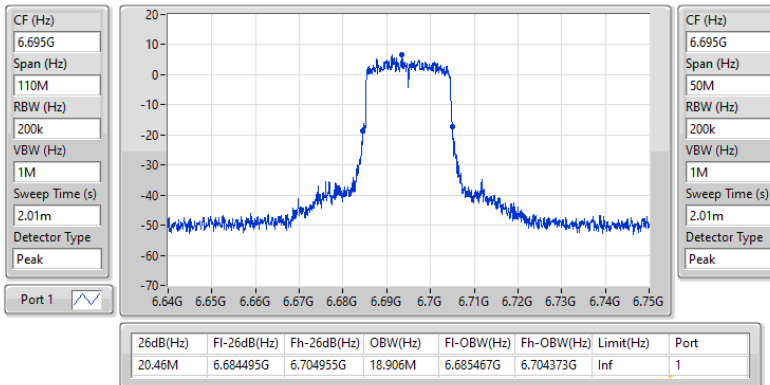


6.525-6.875GHz_802.11ax HEW20_Nss1,(MCS0)_1TX

EBW

6695MHz

12/02/2025

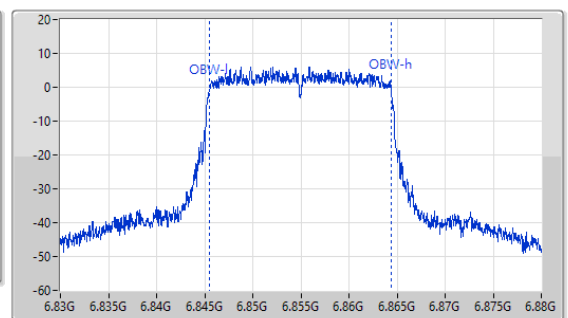
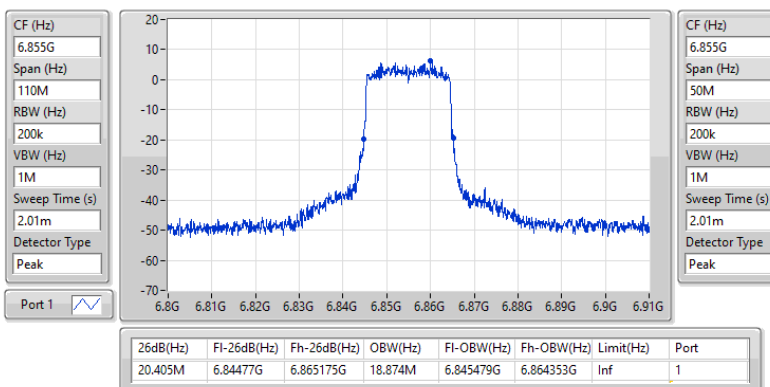


6.525-6.875GHz_802.11ax HEW20_Nss1,(MCS0)_1TX

EBW

6855MHz

12/02/2025





EBW_R4_Narrow Beam_Non-BF mode
(Variant Device / FCC ID: UDX-600216020)

Appendix B.2

Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.925-6.425GHz	-	-	-	-	-
802.11be EHT20_Nss1,(MCS0)_1TX	22.88M	19.113M	19M1D1D	22.495M	19.071M
802.11be EHT20_Nss1,(MCS0)_2TX	23.32M	19.111M	19M1D1D	22.66M	19.071M
802.11be EHT20_Nss1,(MCS0)_4TX	23.54M	19.104M	19M1D1D	22.605M	19.059M
802.11be EHT40_Nss1,(MCS0)_1TX	44.55M	38.109M	38M1D1D	44M	38.064M
802.11be EHT40_Nss1,(MCS0)_2TX	44.55M	38.111M	38M1D1D	43.34M	38.062M
802.11be EHT40_Nss1,(MCS0)_4TX	45.76M	38.131M	38M1D1D	43.56M	38.022M
802.11be EHT80_Nss1,(MCS0)_1TX	89.98M	77.908M	77M9D1D	88.88M	77.83M
802.11be EHT80_Nss1,(MCS0)_2TX	90.86M	77.904M	77M9D1D	89.1M	77.788M
802.11be EHT80_Nss1,(MCS0)_4TX	90.86M	77.999M	78M0D1D	88.66M	77.773M
802.11be EHT160_Nss1,(MCS0)_1TX	174.24M	157.389M	157MD1D	171.6M	157.136M
802.11be EHT160_Nss1,(MCS0)_2TX	174.24M	157.404M	157MD1D	171.16M	157.039M
802.11be EHT160_Nss1,(MCS0)_4TX	175.56M	157.482M	157MD1D	169.84M	156.882M
802.11be EHT320_Nss1,(MCS0)_1TX	338.8M	316.001M	316MD1D	332.64M	315.421M
802.11be EHT320_Nss1,(MCS0)_2TX	339.68M	316.347M	316MD1D	335.28M	315.53M
802.11be EHT320_Nss1,(MCS0)_4TX	338.8M	316.673M	317MD1D	332.64M	315.648M
6.525-6.875GHz	-	-	-	-	-
802.11be EHT20_Nss1,(MCS0)_1TX	23.595M	19.101M	19M1D1D	22.935M	19.088M
802.11be EHT20_Nss1,(MCS0)_2TX	23.155M	19.106M	19M1D1D	22.66M	19.084M
802.11be EHT20_Nss1,(MCS0)_4TX	23.815M	19.121M	19M1D1D	22.77M	19.07M
802.11be EHT40_Nss1,(MCS0)_1TX	45.32M	38.181M	38M2D1D	44.44M	38.088M
802.11be EHT40_Nss1,(MCS0)_2TX	44.88M	38.112M	38M1D1D	44M	38.057M
802.11be EHT40_Nss1,(MCS0)_4TX	44.77M	38.142M	38M1D1D	43.34M	38.009M
802.11be EHT80_Nss1,(MCS0)_1TX	90.86M	78.045M	78M0D1D	89.32M	77.994M
802.11be EHT80_Nss1,(MCS0)_2TX	91.3M	77.96M	78M0D1D	88.88M	77.833M
802.11be EHT80_Nss1,(MCS0)_4TX	91.52M	78.017M	78M0D1D	88.88M	77.733M
802.11be EHT160_Nss1,(MCS0)_1TX	172.48M	157.413M	157MD1D	172.48M	157.413M
802.11be EHT160_Nss1,(MCS0)_2TX	173.8M	157.315M	157MD1D	172.48M	157.252M
802.11be EHT160_Nss1,(MCS0)_4TX	173.8M	157.241M	157MD1D	170.72M	157.003M

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



EBW_R4_Narrow Beam_Non-BF mode
(Variant Device / FCC ID: UDX-600216020)

Appendix B.2

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)
802.11be EHT20_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-	-	-	-
5955MHz	Pass	Inf	22.495M	19.071M						
6195MHz	Pass	Inf	22.77M	19.102M						
6415MHz	Pass	Inf	22.88M	19.113M						
6535MHz	Pass	Inf	22.935M	19.101M						
6695MHz	Pass	Inf	23.375M	19.088M						
6855MHz	Pass	Inf	23.595M	19.096M						
802.11be EHT40_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-	-	-	-
5965MHz	Pass	Inf	44M	38.109M						
6205MHz	Pass	Inf	44.22M	38.081M						
6405MHz	Pass	Inf	44.55M	38.064M						
6565MHz	Pass	Inf	44.44M	38.088M						
6685MHz	Pass	Inf	44.55M	38.108M						
6845MHz	Pass	Inf	45.32M	38.181M						
802.11be EHT80_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-	-	-	-
5985MHz	Pass	Inf	89.98M	77.83M						
6225MHz	Pass	Inf	88.88M	77.908M						
6385MHz	Pass	Inf	89.1M	77.844M						
6625MHz	Pass	Inf	89.32M	77.994M						
6705MHz	Pass	Inf	89.98M	78.041M						
6785MHz	Pass	Inf	90.86M	78.045M						
802.11be EHT160_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-	-	-	-
6025MHz	Pass	Inf	171.6M	157.177M						
6185MHz	Pass	Inf	174.24M	157.136M						
6345MHz	Pass	Inf	173.36M	157.389M						
6665MHz	Pass	Inf	172.48M	157.413M						
802.11be EHT320_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-	-	-	-
6105MHz	Pass	Inf	332.64M	315.421M						
6265MHz	Pass	Inf	338.8M	316.001M						
802.11be EHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-
5955MHz	Pass	Inf	23.045M	19.082M	22.825M	19.071M				
6195MHz	Pass	Inf	23.32M	19.099M	22.825M	19.085M				
6415MHz	Pass	Inf	22.66M	19.093M	22.77M	19.111M				
6535MHz	Pass	Inf	23.155M	19.088M	22.935M	19.106M				
6695MHz	Pass	Inf	22.825M	19.094M	22.66M	19.098M				
6855MHz	Pass	Inf	22.99M	19.084M	22.825M	19.093M				
802.11be EHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-
5965MHz	Pass	Inf	44.33M	38.091M	43.45M	38.087M				
6205MHz	Pass	Inf	44.55M	38.106M	44.55M	38.111M				
6405MHz	Pass	Inf	44M	38.062M	43.34M	38.066M				
6565MHz	Pass	Inf	44M	38.077M	44.22M	38.057M				
6685MHz	Pass	Inf	44.55M	38.112M	44.11M	38.074M				
6845MHz	Pass	Inf	44.88M	38.087M	44.77M	38.06M				
802.11be EHT80_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-
5985MHz	Pass	Inf	90.86M	77.788M	89.32M	77.904M				
6225MHz	Pass	Inf	89.98M	77.897M	89.32M	77.869M				
6385MHz	Pass	Inf	89.54M	77.858M	89.1M	77.883M				
6625MHz	Pass	Inf	91.3M	77.844M	91.3M	77.833M				
6705MHz	Pass	Inf	90.2M	77.836M	90.2M	77.886M				
6785MHz	Pass	Inf	91.08M	77.96M	88.88M	77.855M				
802.11be EHT160_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-
6025MHz	Pass	Inf	171.16M	157.039M	171.6M	157.109M				
6185MHz	Pass	Inf	174.24M	157.238M	172.48M	157.285M				
6345MHz	Pass	Inf	173.36M	157.404M	172.48M	157.218M				
6665MHz	Pass	Inf	173.8M	157.315M	172.48M	157.252M				



EBW_R4_Narrow Beam_Non-BF mode
(Variant Device / FCC ID: UDX-600216020)

Appendix B.2

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)
802.11be EHT320_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-
6105MHz	Pass	Inf	336.16M	315.53M	335.28M	316.035M				
6265MHz	Pass	Inf	339.68M	316.347M	335.28M	316.291M				
802.11be EHT20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5955MHz	Pass	Inf	22.715M	19.059M	23.1M	19.07M	23.54M	19.103M	23.43M	19.104M
6195MHz	Pass	Inf	22.605M	19.09M	22.88M	19.097M	23.32M	19.078M	23.265M	19.092M
6415MHz	Pass	Inf	23.21M	19.099M	22.99M	19.092M	23.265M	19.086M	23.375M	19.098M
6535MHz	Pass	Inf	23.265M	19.079M	22.77M	19.089M	23.595M	19.072M	23.485M	19.121M
6695MHz	Pass	Inf	22.88M	19.095M	22.88M	19.078M	23.485M	19.07M	23.815M	19.112M
6855MHz	Pass	Inf	23.265M	19.073M	22.935M	19.093M	23.815M	19.091M	23.54M	19.12M
802.11be EHT40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5965MHz	Pass	Inf	44.22M	38.04M	45.76M	38.079M	44.33M	38.059M	44.22M	38.022M
6205MHz	Pass	Inf	44.33M	38.09M	44.11M	38.088M	44.11M	38.101M	43.89M	38.073M
6405MHz	Pass	Inf	44.44M	38.082M	44.22M	38.056M	44.66M	38.131M	43.56M	38.069M
6565MHz	Pass	Inf	44.33M	38.073M	44.11M	38.087M	44.11M	38.142M	43.67M	38.025M
6685MHz	Pass	Inf	44.77M	38.063M	43.78M	38.085M	44.55M	38.112M	44M	38.009M
6845MHz	Pass	Inf	44.44M	38.098M	44.33M	38.026M	44.55M	38.117M	43.34M	38.031M
802.11be EHT80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5985MHz	Pass	Inf	88.66M	77.813M	89.1M	77.828M	90.64M	77.913M	89.1M	77.879M
6225MHz	Pass	Inf	89.54M	77.885M	89.54M	77.812M	90.86M	77.999M	90.86M	77.773M
6385MHz	Pass	Inf	89.76M	77.908M	89.98M	77.869M	90.86M	77.93M	89.98M	77.834M
6625MHz	Pass	Inf	90.2M	77.917M	90.42M	77.836M	90.64M	77.837M	90.64M	77.74M
6705MHz	Pass	Inf	89.76M	77.848M	88.88M	77.879M	89.54M	78.017M	89.76M	77.733M
6785MHz	Pass	Inf	90.2M	77.956M	90.42M	77.935M	90.42M	77.906M	91.52M	77.754M
802.11be EHT160_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
6025MHz	Pass	Inf	172.92M	157.29M	172.04M	157.299M	171.6M	156.882M	169.84M	156.977M
6185MHz	Pass	Inf	172.04M	157.454M	171.16M	157.255M	174.68M	157.282M	172.92M	157.256M
6345MHz	Pass	Inf	172.92M	157.406M	172.48M	157.293M	175.56M	157.482M	173.8M	157.278M
6665MHz	Pass	Inf	173.8M	157.198M	173.36M	157.241M	170.72M	157.02M	172.92M	157.003M
802.11be EHT320_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
6105MHz	Pass	Inf	337.04M	315.978M	332.64M	316.18M	337.92M	315.933M	338.8M	315.648M
6265MHz	Pass	Inf	337.92M	316.558M	337.04M	316.545M	337.04M	316.673M	335.28M	316.603M

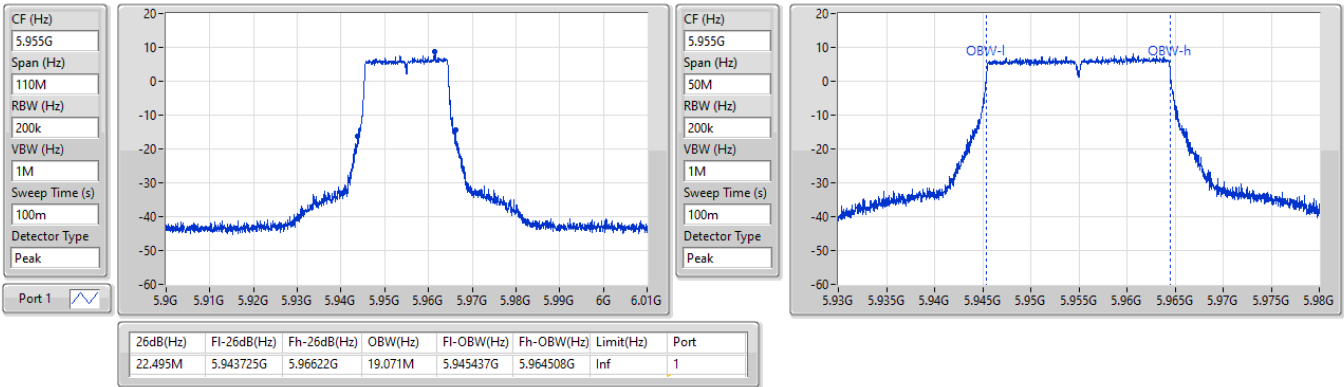
Port X-N dB = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band
Port X-OBW = Port X 99% occupied bandwidth

5.925-6.425GHz_802.11be EHT20_Nss1,(MCS0)_1TX

EBW

5955MHz

14/02/2025

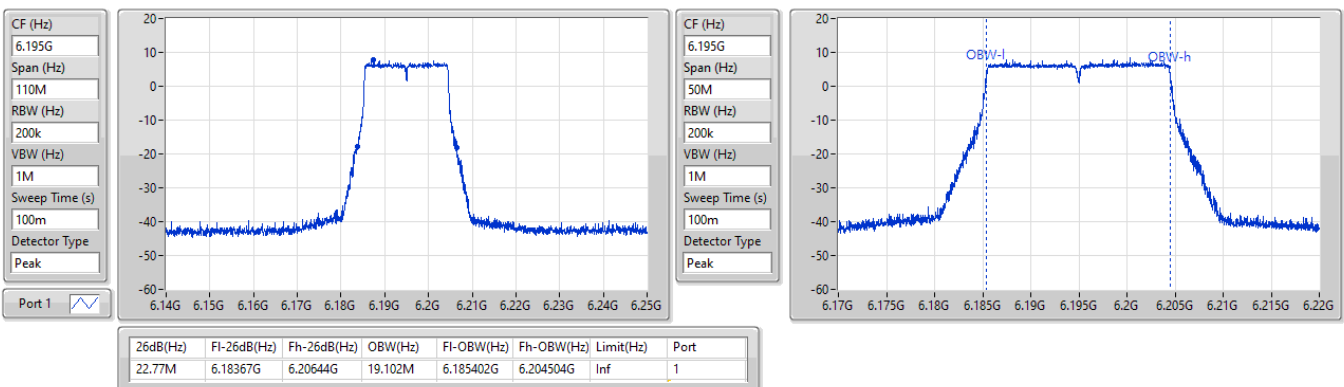


5.925-6.425GHz_802.11be EHT20_Nss1,(MCS0)_1TX

EBW

6195MHz

14/02/2025

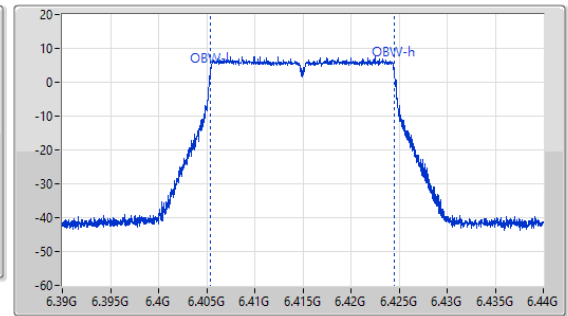
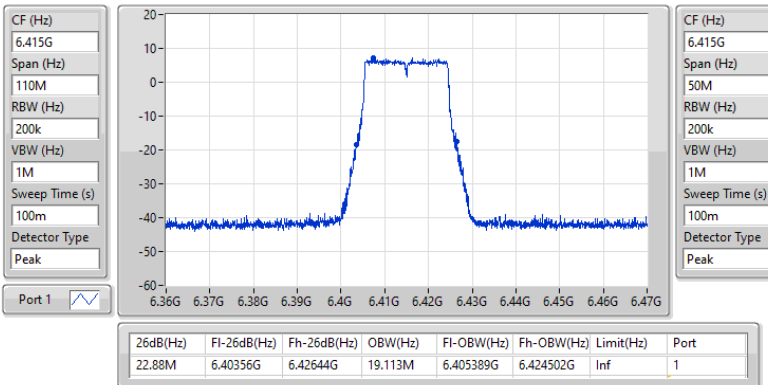


5.925-6.425GHz_802.11be EHT20_Nss1,(MCS0)_1TX

EBW

6415MHz

14/02/2025

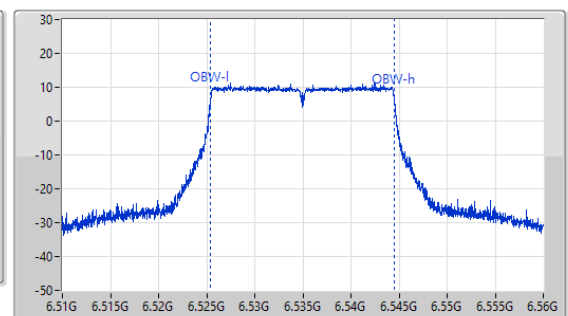
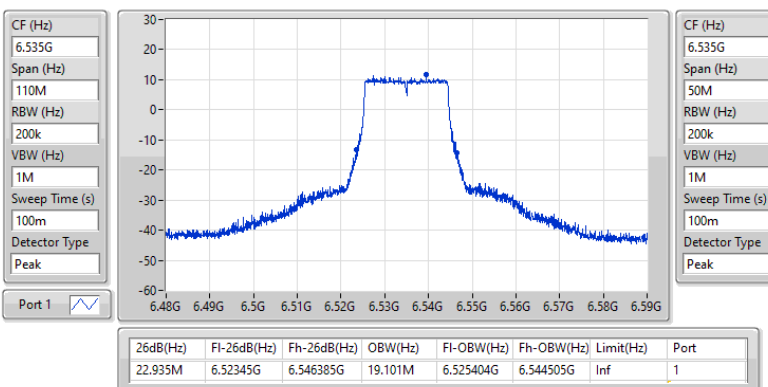


6.525-6.875GHz_802.11be EHT20_Nss1,(MCS0)_1TX

EBW

6535MHz

14/02/2025

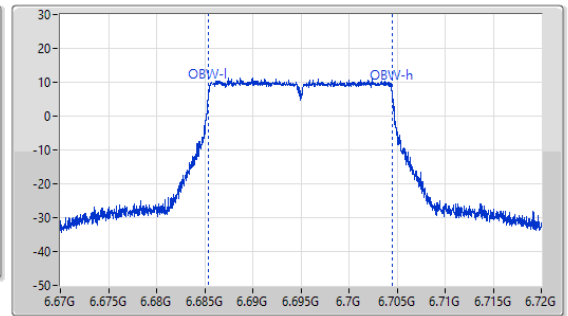
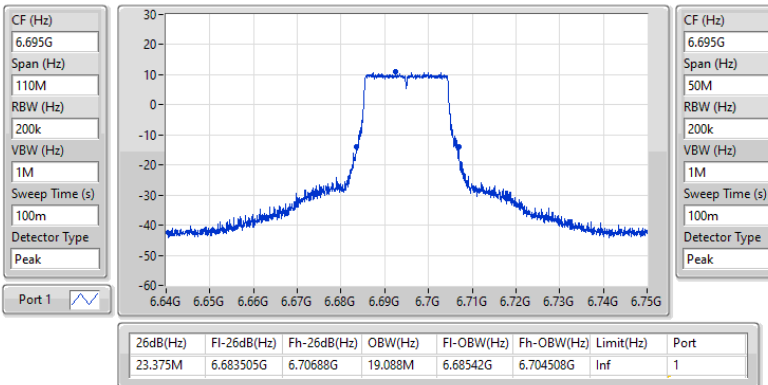


6.525-6.875GHz_802.11be EHT20_Nss1,(MCS0)_1TX

EBW

6695MHz

14/02/2025

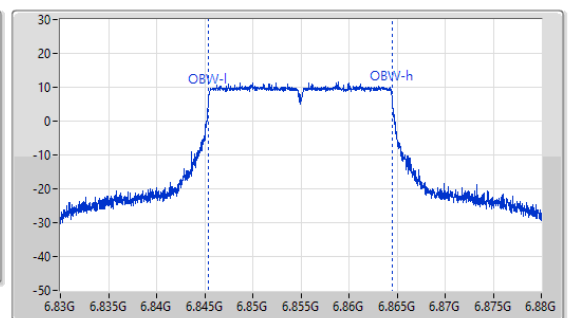
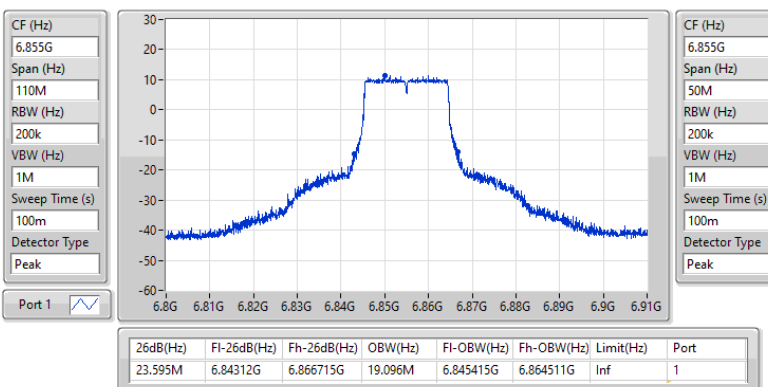


6.525-6.875GHz_802.11be EHT20_Nss1,(MCS0)_1TX

EBW

6855MHz

14/02/2025

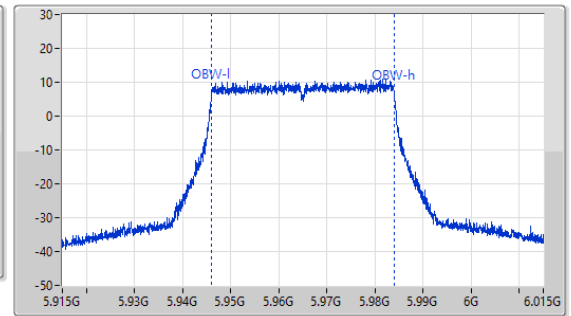
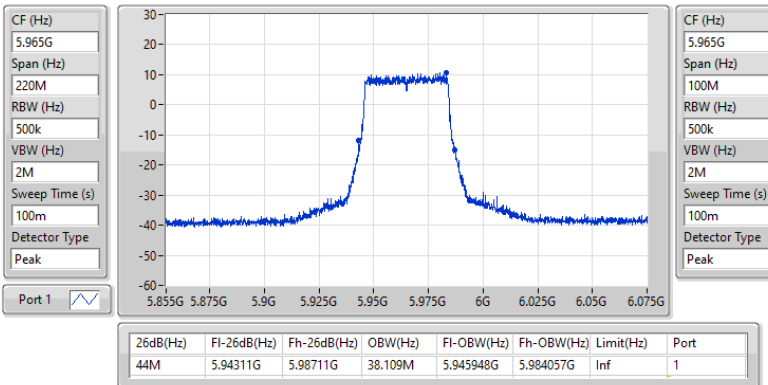


5.925-6.425GHz_802.11be EHT40_Nss1,(MCS0)_1TX

EBW

5965MHz

14/02/2025

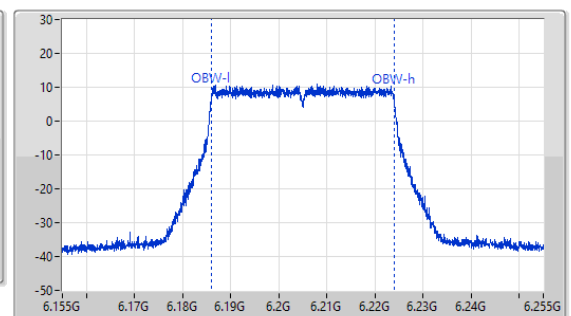
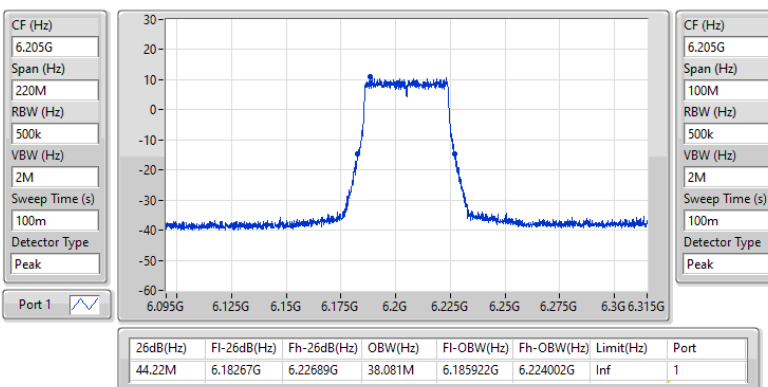


5.925-6.425GHz_802.11be EHT40_Nss1,(MCS0)_1TX

EBW

6205MHz

14/02/2025

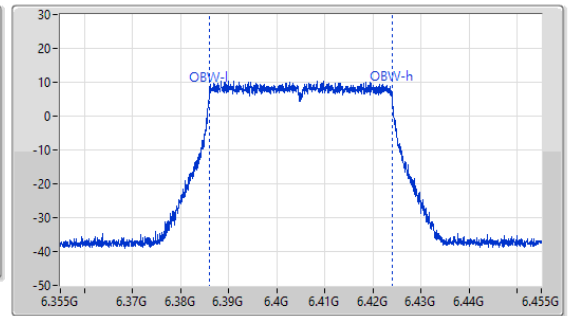
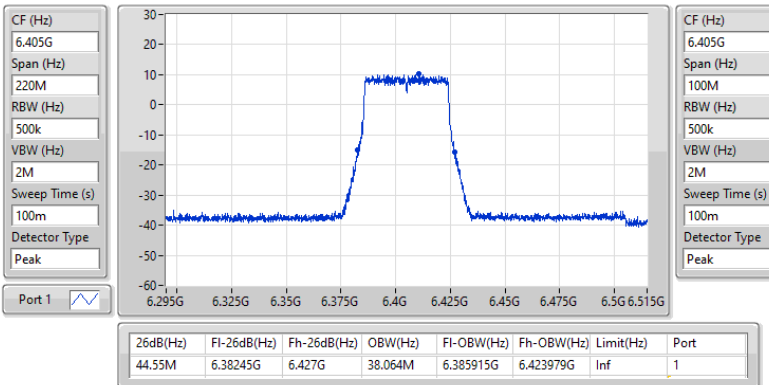


5.925-6.425GHz_802.11be EHT40_Nss1,(MCS0)_1TX

EBW

6405MHz

14/02/2025

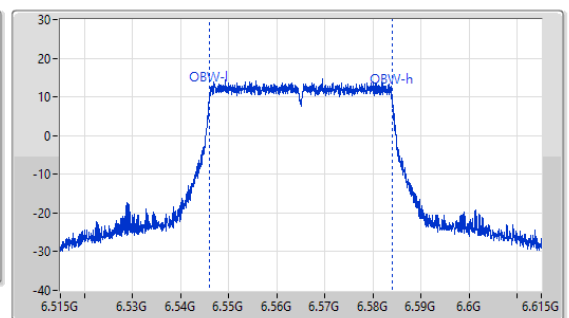
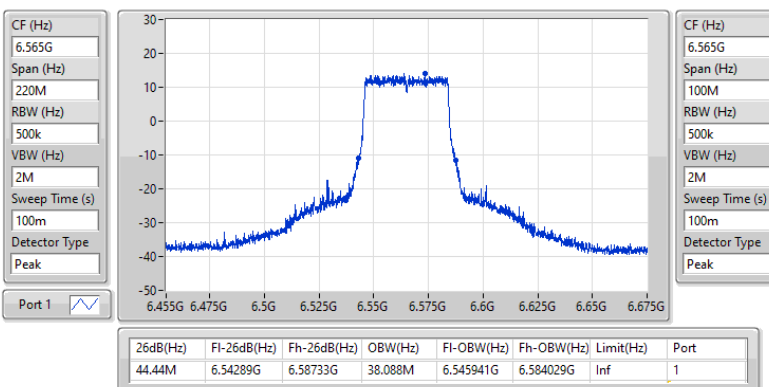


6.525-6.875GHz_802.11be EHT40_Nss1,(MCS0)_1TX

EBW

6565MHz

14/02/2025

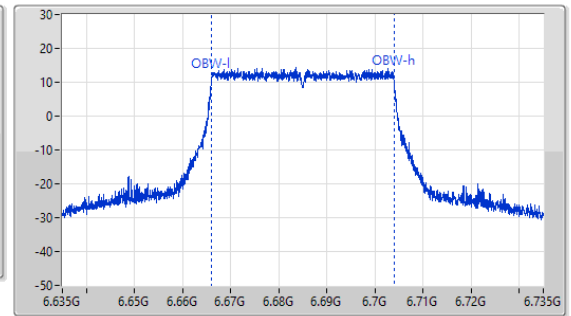
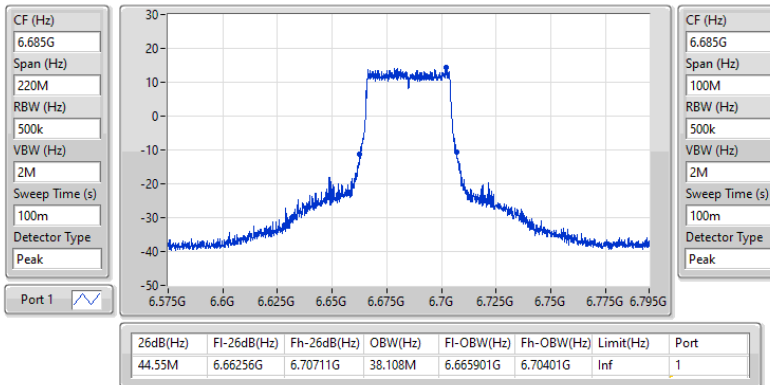


6.525-6.875GHz_802.11be EHT40_Nss1,(MCS0)_1TX

EBW

6685MHz

14/02/2025

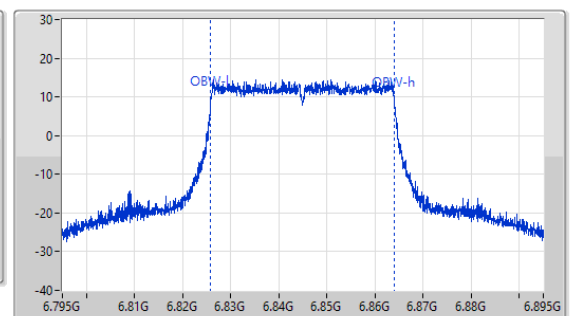
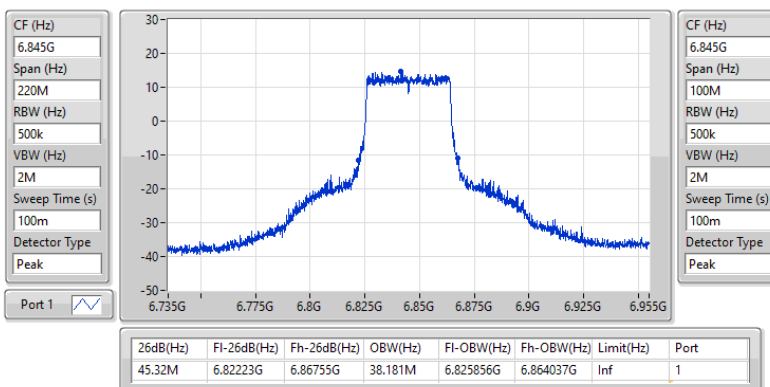


6.525-6.875GHz_802.11be EHT40_Nss1,(MCS0)_1TX

EBW

6845MHz

14/02/2025

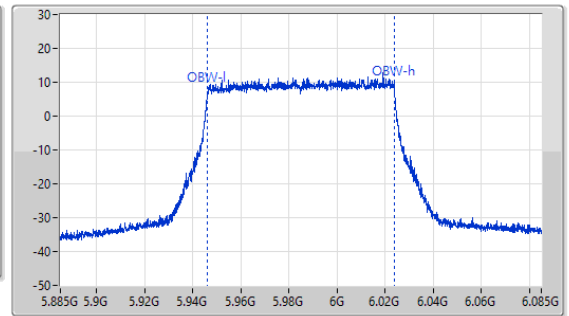
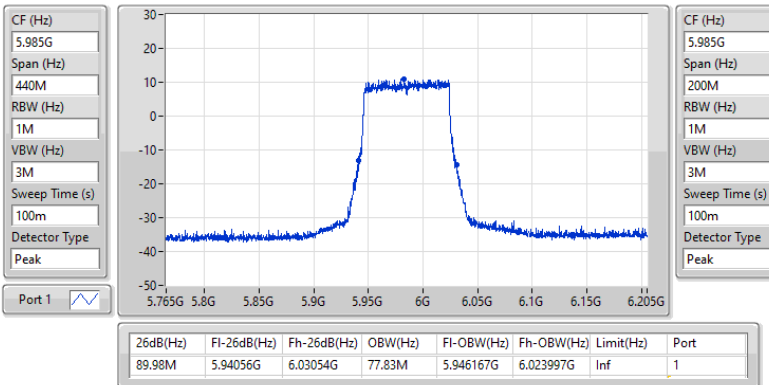


5.925-6.425GHz_802.11be EHT80_Nss1,(MCS0)_1TX

EBW

5985MHz

14/02/2025

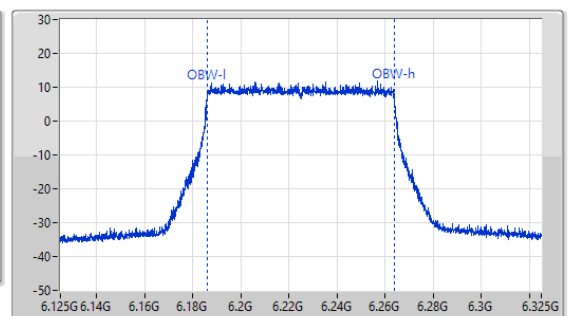
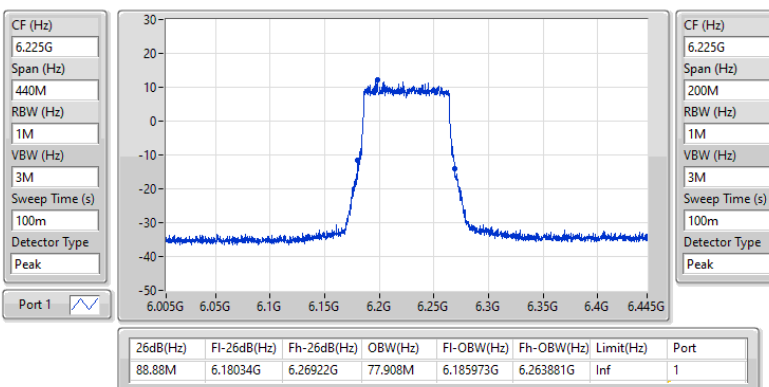


5.925-6.425GHz_802.11be EHT80_Nss1,(MCS0)_1TX

EBW

6225MHz

14/02/2025

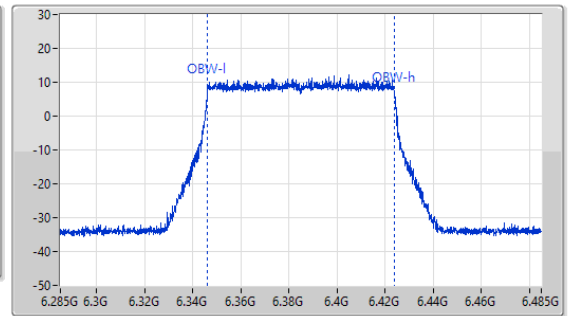
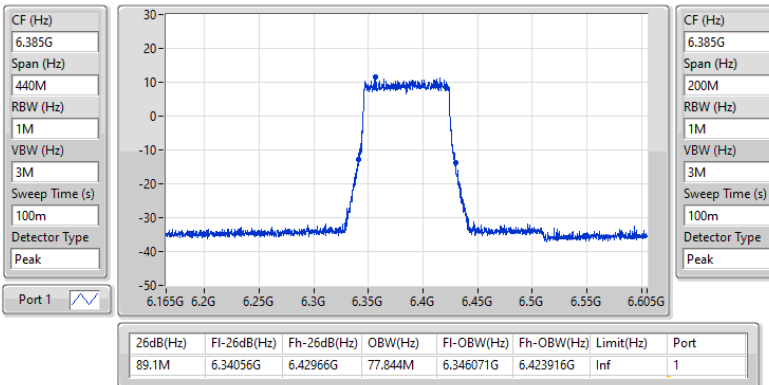


5.925-6.425GHz_802.11be EHT80_Nss1,(MCS0)_1TX

EBW

6385MHz

14/02/2025

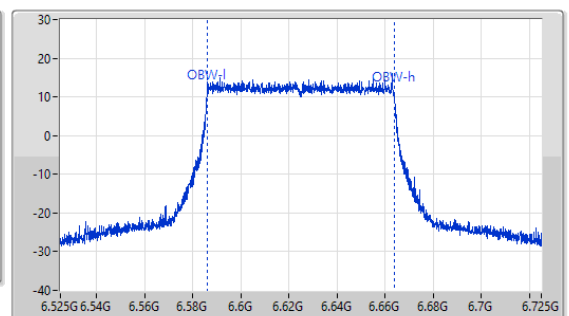
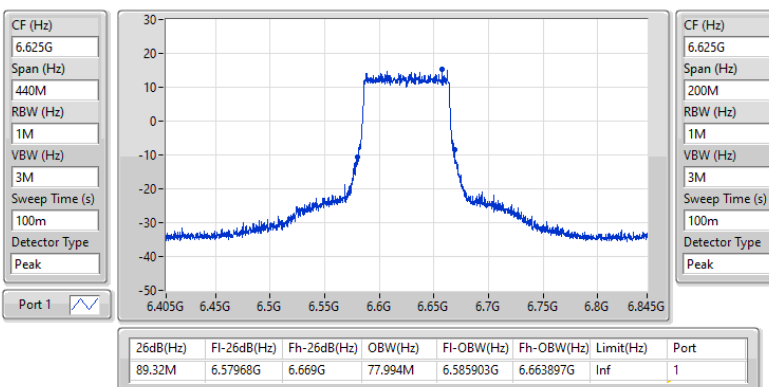


6.525-6.875GHz_802.11be EHT80_Nss1,(MCS0)_1TX

EBW

6625MHz

14/02/2025

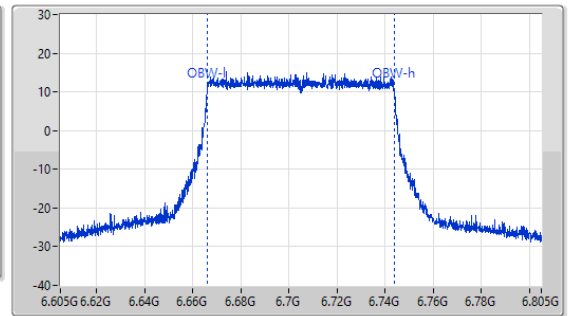
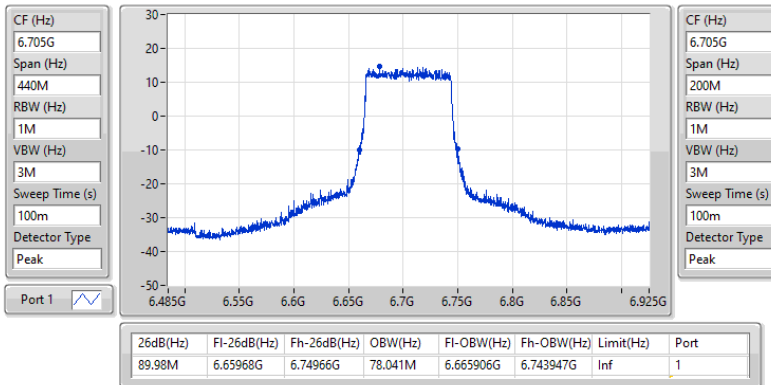


6.525-6.875GHz_802.11be EHT80_Nss1,(MCS0)_1TX

EBW

6705MHz

14/02/2025

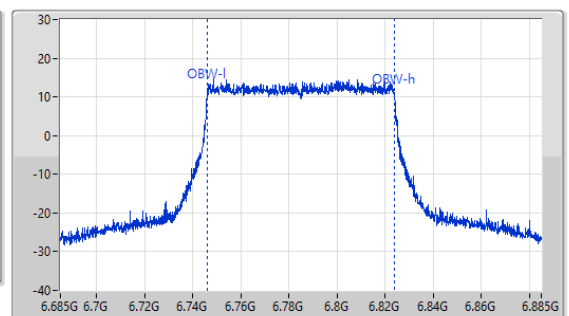
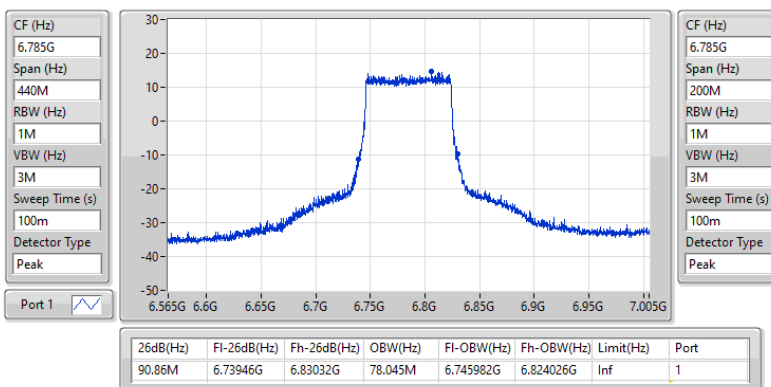


6.525-6.875GHz_802.11be EHT80_Nss1,(MCS0)_1TX

EBW

6785MHz

14/02/2025

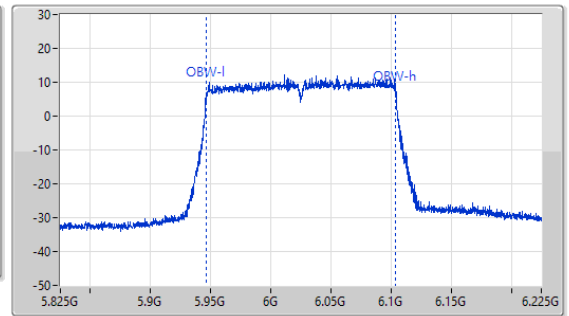
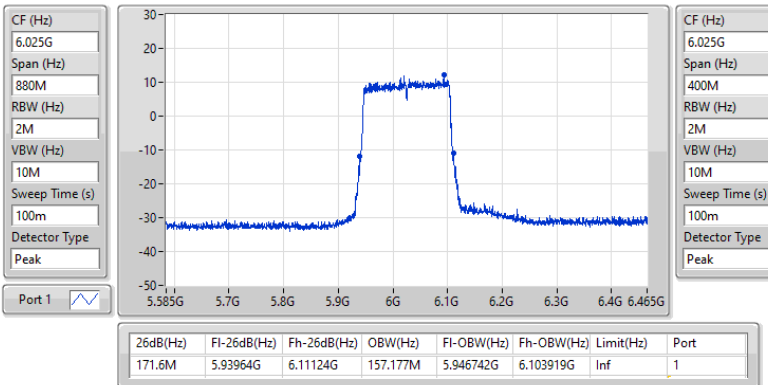


5.925-6.425GHz_802.11be EHT160_Nss1,(MCS0)_1TX

EBW

6025MHz

14/02/2025

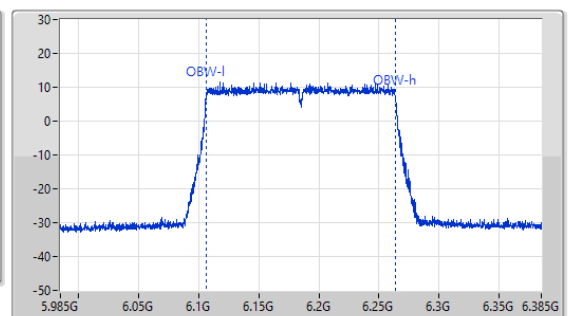
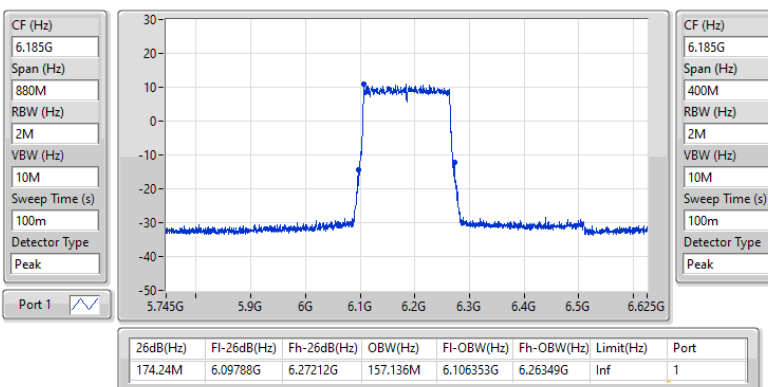


5.925-6.425GHz_802.11be EHT160_Nss1,(MCS0)_1TX

EBW

6185MHz

14/02/2025

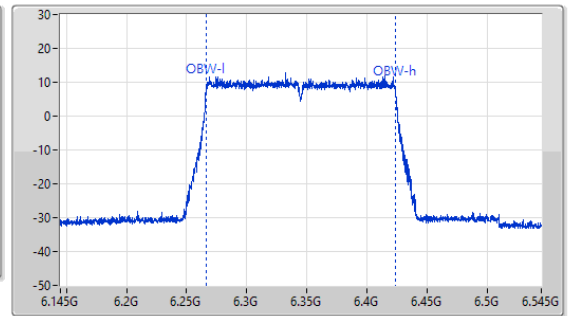
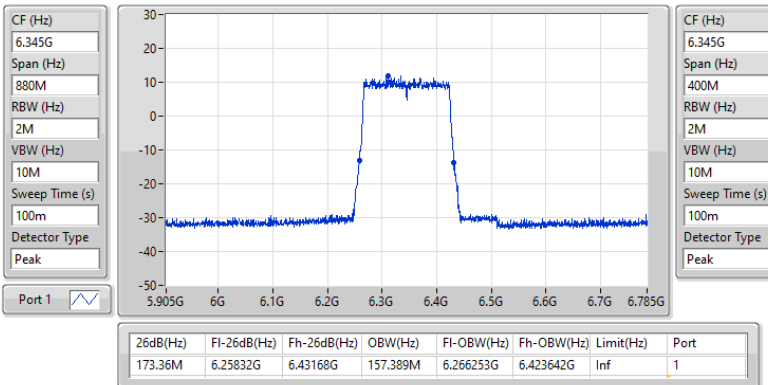


5.925-6.425GHz_802.11be EHT160_Nss1,(MCS0)_1TX

EBW

6345MHz

14/02/2025

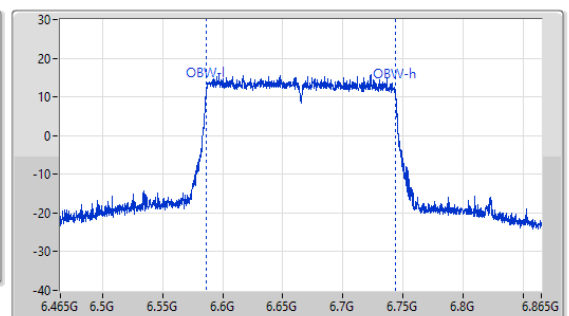
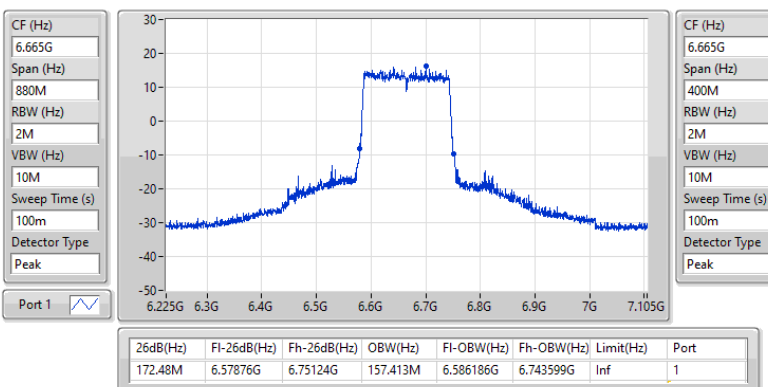


6.525-6.875GHz_802.11be EHT160_Nss1,(MCS0)_1TX

EBW

6665MHz

14/02/2025

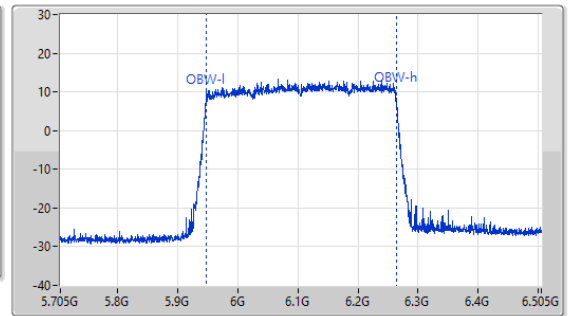
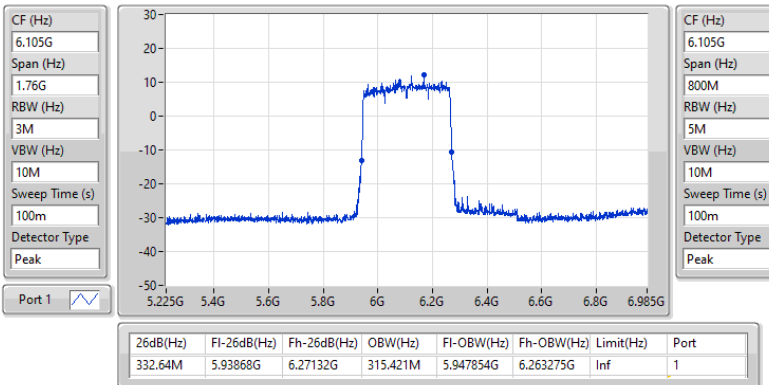


5.925-6.425GHz_802.11be EHT320_Nss1,(MCS0)_1TX

EBW

6105MHz

14/02/2025

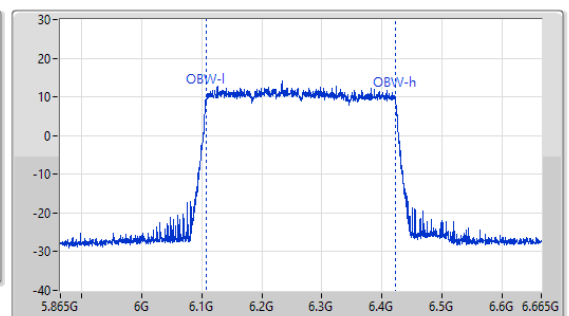
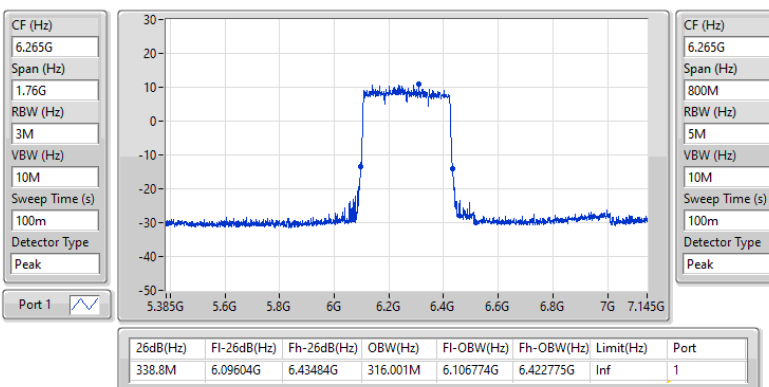


5.925-6.425GHz_802.11be EHT320_Nss1,(MCS0)_1TX

EBW

6265MHz

14/02/2025

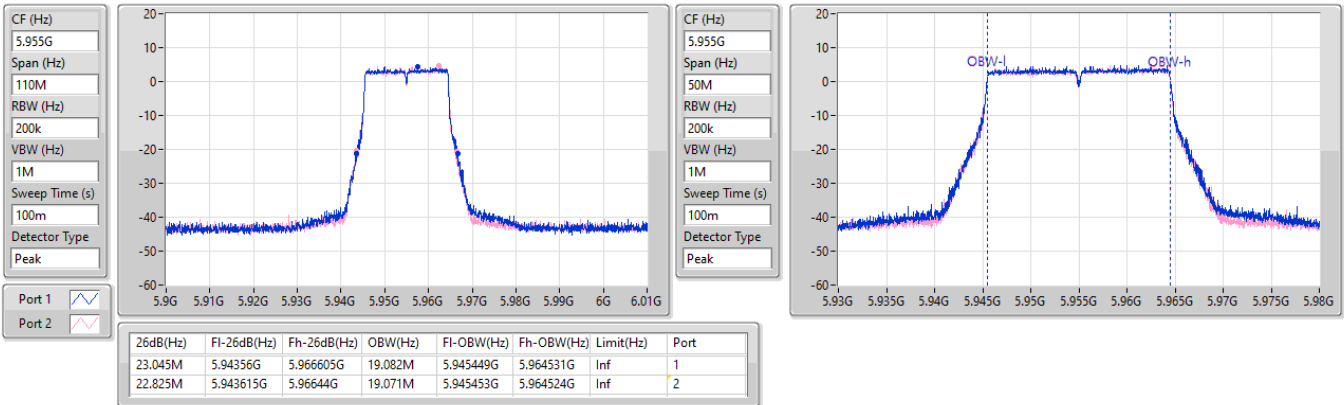


5.925-6.425GHz_802.11be EHT20_Nss1,(MCS0)_2TX

EBW

5955MHz

14/02/2025

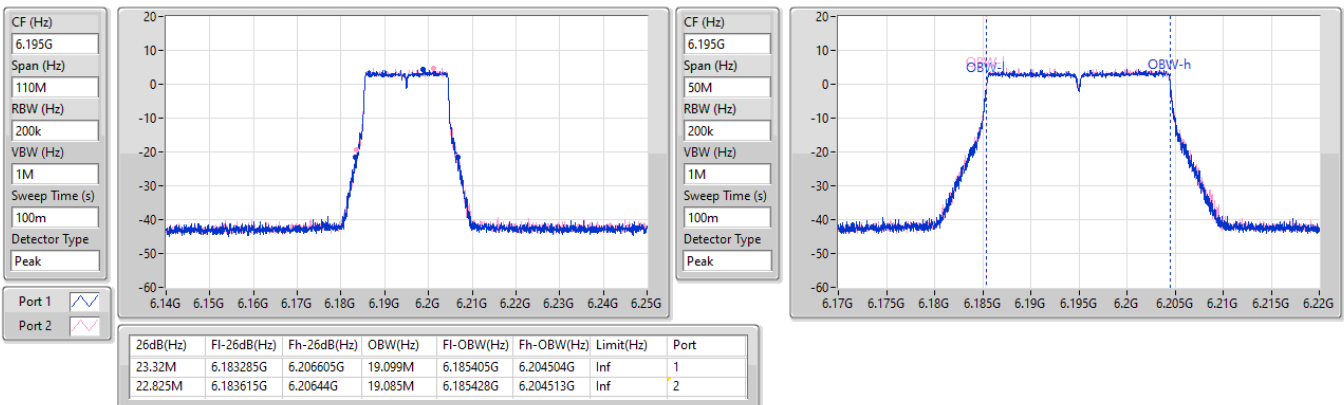


5.925-6.425GHz_802.11be EHT20_Nss1,(MCS0)_2TX

EBW

6195MHz

14/02/2025

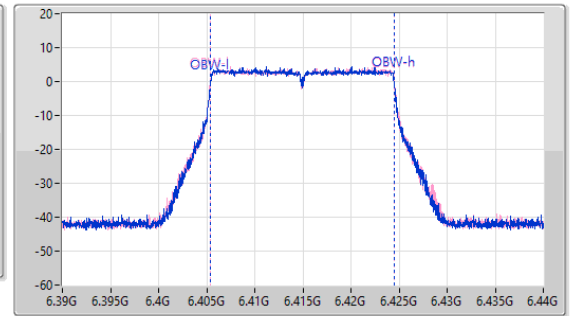
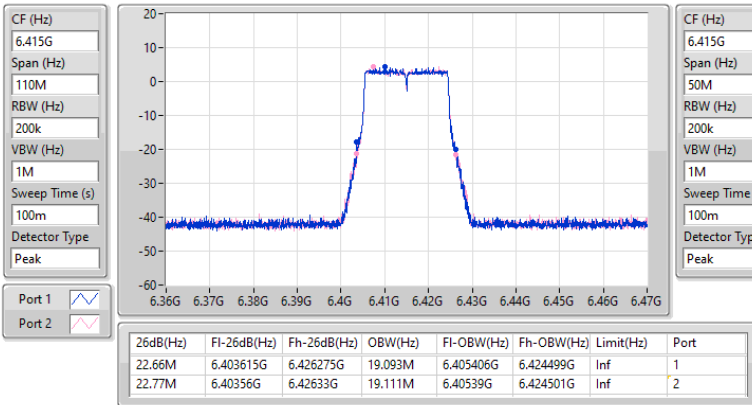


5.925-6.425GHz_802.11be EHT20_Nss1,(MCS0)_2TX

EBW

6415MHz

14/02/2025

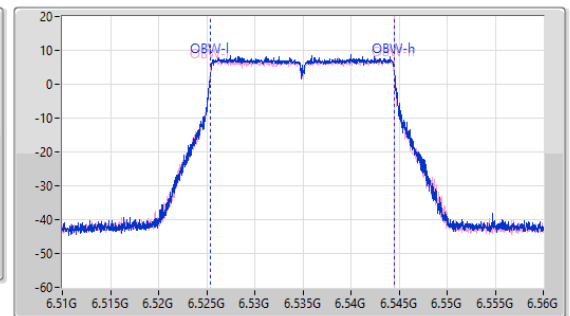
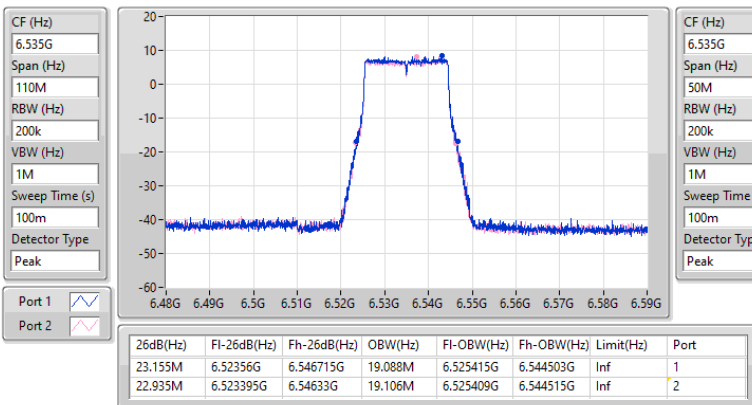


6.525-6.875GHz_802.11be EHT20_Nss1,(MCS0)_2TX

EBW

6535MHz

14/02/2025

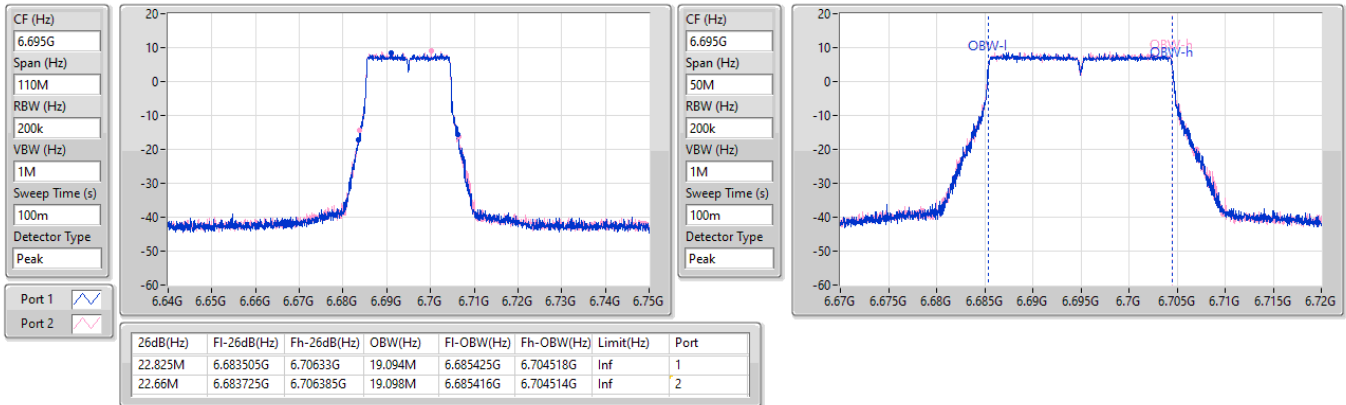


6.525-6.875GHz_802.11be EHT20_Nss1,(MCS0)_2TX

EBW

6695MHz

14/02/2025

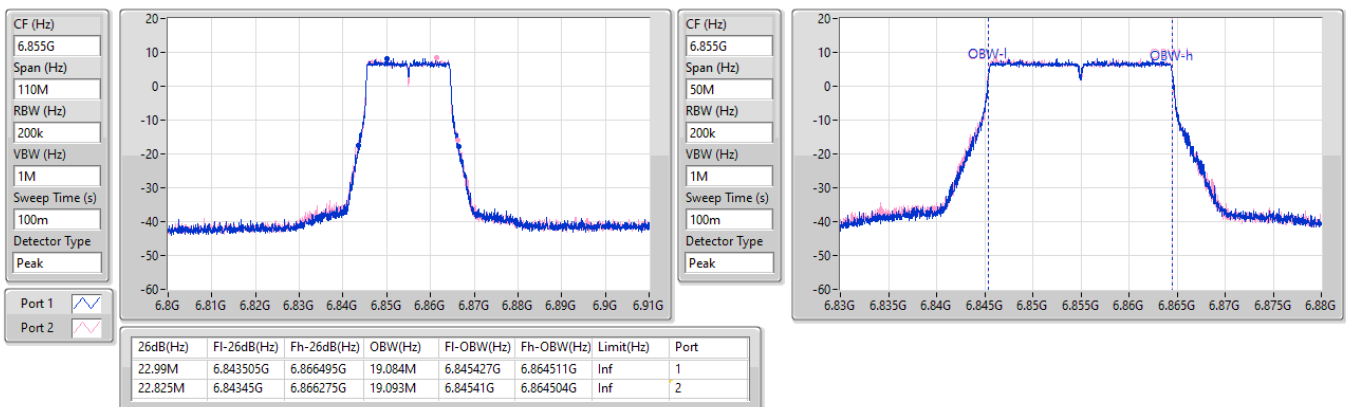


6.525-6.875GHz_802.11be EHT20_Nss1,(MCS0)_2TX

EBW

6855MHz

14/02/2025

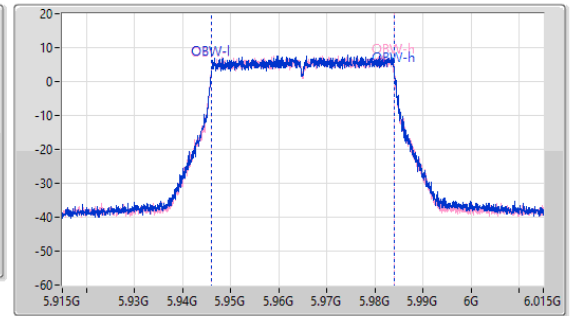
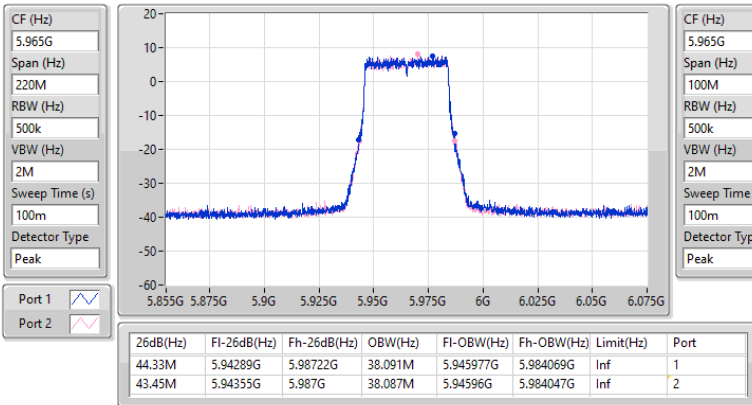


5.925-6.425GHz_802.11be EHT40_Nss1,(MCS0)_2TX

EBW

5965MHz

14/02/2025

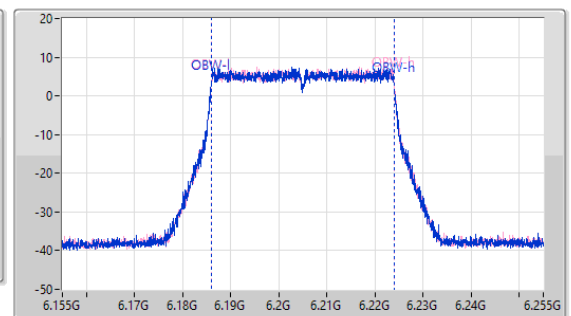
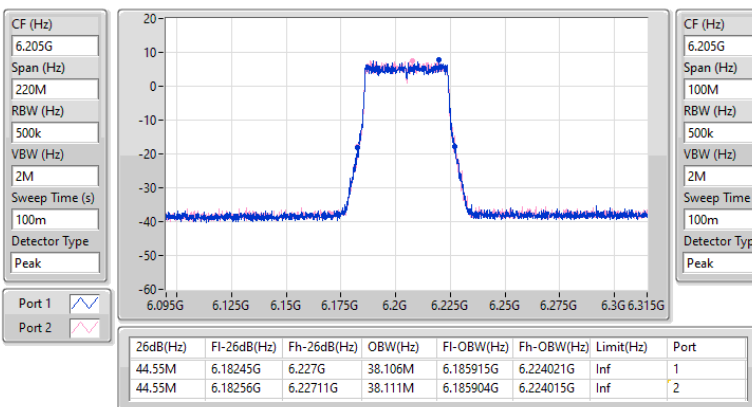


5.925-6.425GHz_802.11be EHT40_Nss1,(MCS0)_2TX

EBW

6205MHz

14/02/2025

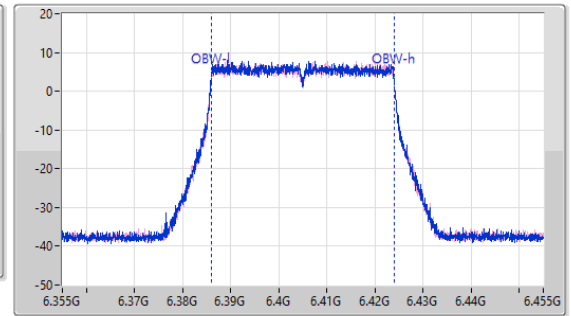
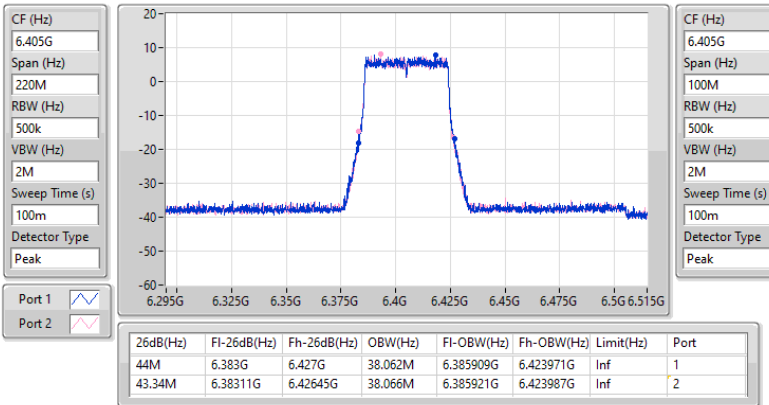


5.925-6.425GHz_802.11be EHT40_Nss1,(MCS0)_2TX

EBW

6405MHz

14/02/2025

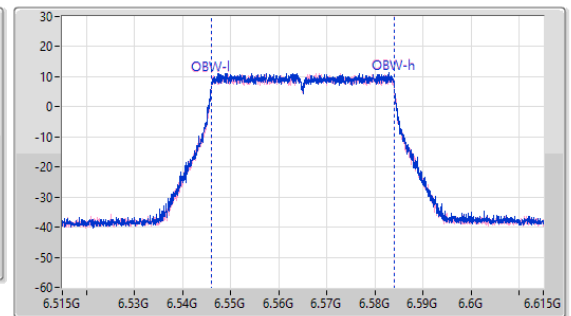
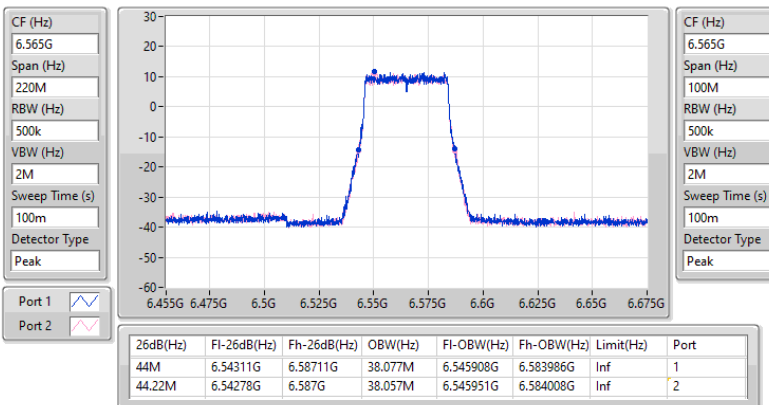


6.525-6.875GHz_802.11be EHT40_Nss1,(MCS0)_2TX

EBW

6565MHz

14/02/2025

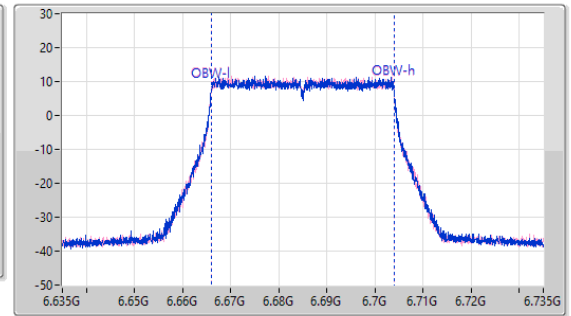
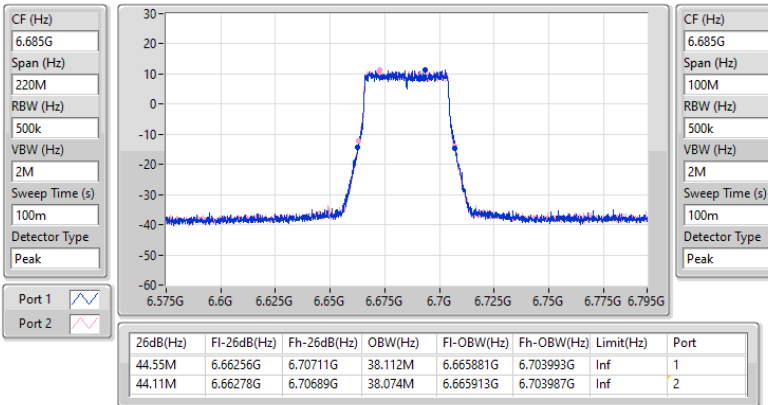


6.525-6.875GHz_802.11be EHT40_Nss1,(MCS0)_2TX

EBW

6685MHz

14/02/2025

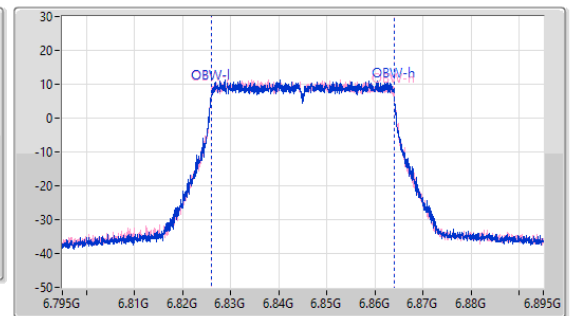
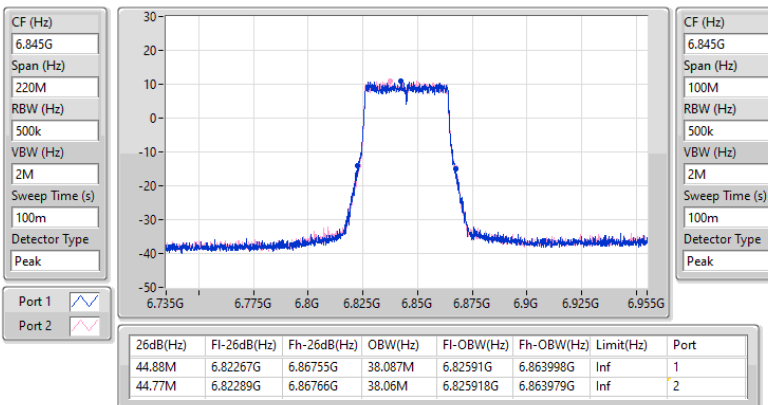


6.525-6.875GHz_802.11be EHT40_Nss1,(MCS0)_2TX

EBW

6845MHz

14/02/2025

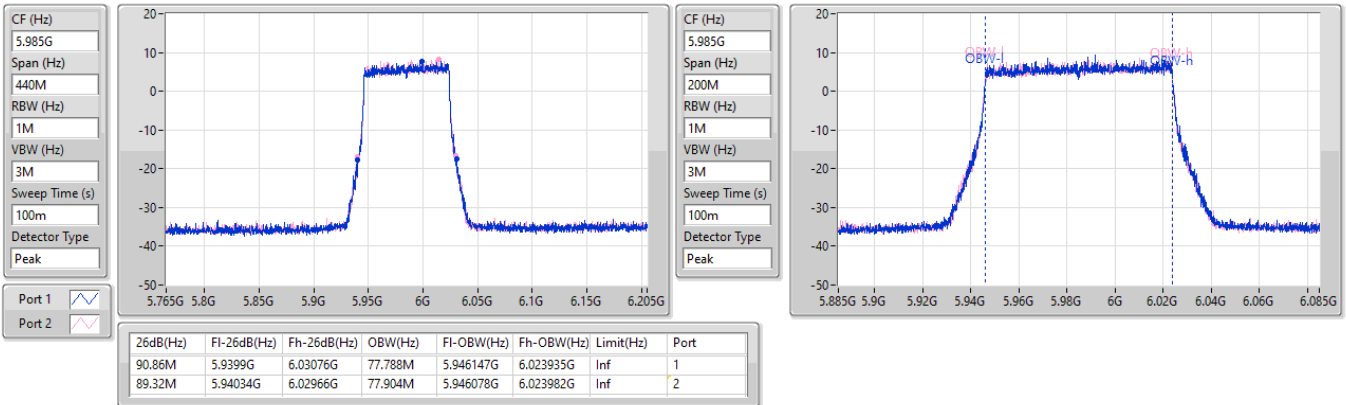


5.925-6.425GHz_802.11be EHT80_Nss1,(MCS0)_2TX

EBW

5985MHz

14/02/2025

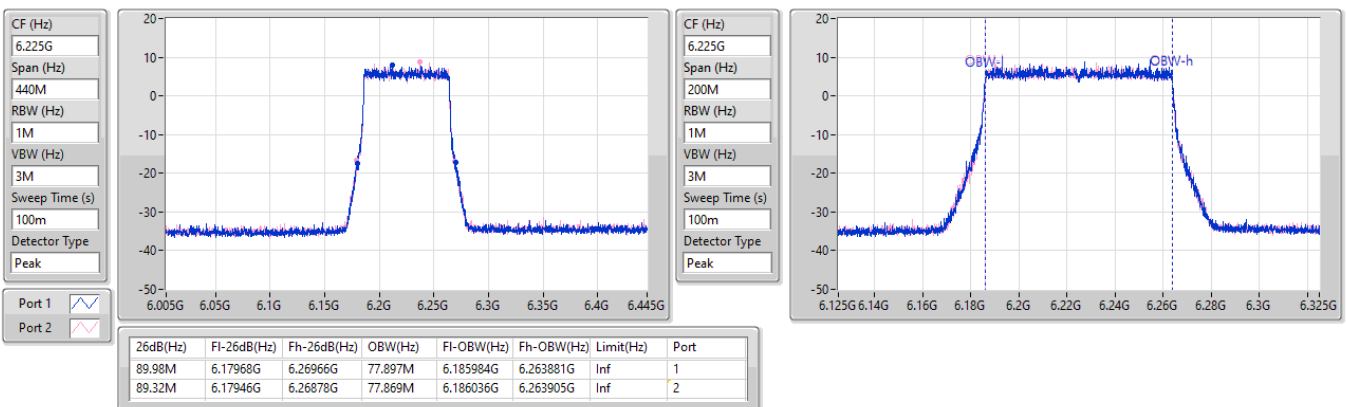


5.925-6.425GHz_802.11be EHT80_Nss1,(MCS0)_2TX

EBW

6225MHz

14/02/2025

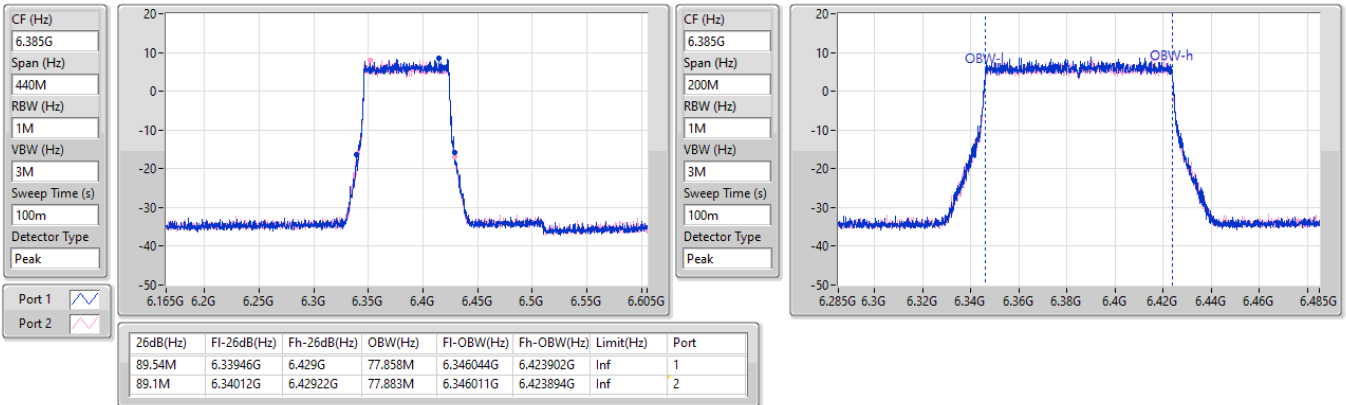


5.925-6.425GHz_802.11be EHT80_Nss1,(MCS0)_2TX

EBW

6385MHz

14/02/2025

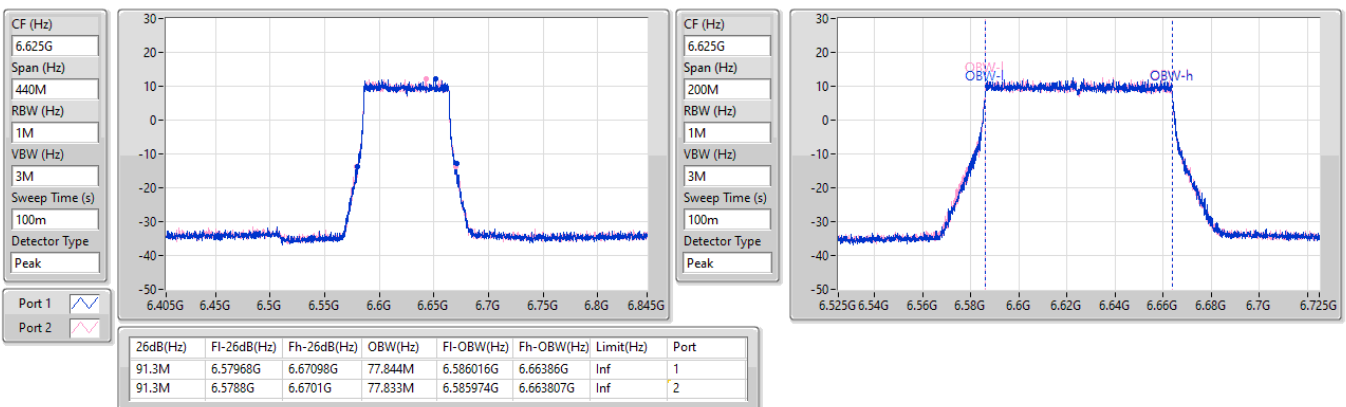


6.525-6.875GHz_802.11be EHT80_Nss1,(MCS0)_2TX

EBW

6625MHz

14/02/2025

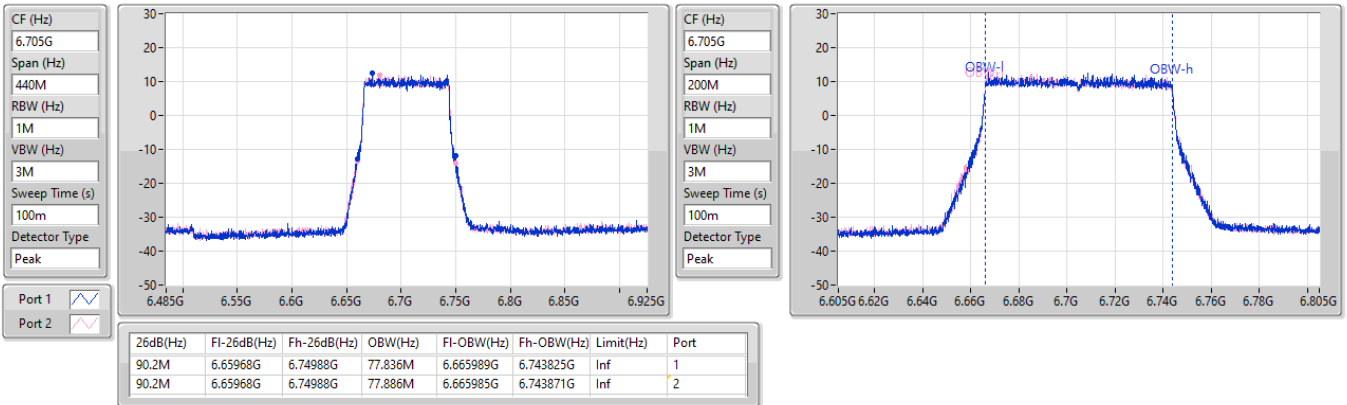


6.525-6.875GHz_802.11be EHT80_Nss1,(MCS0)_2TX

EBW

6705MHz

14/02/2025

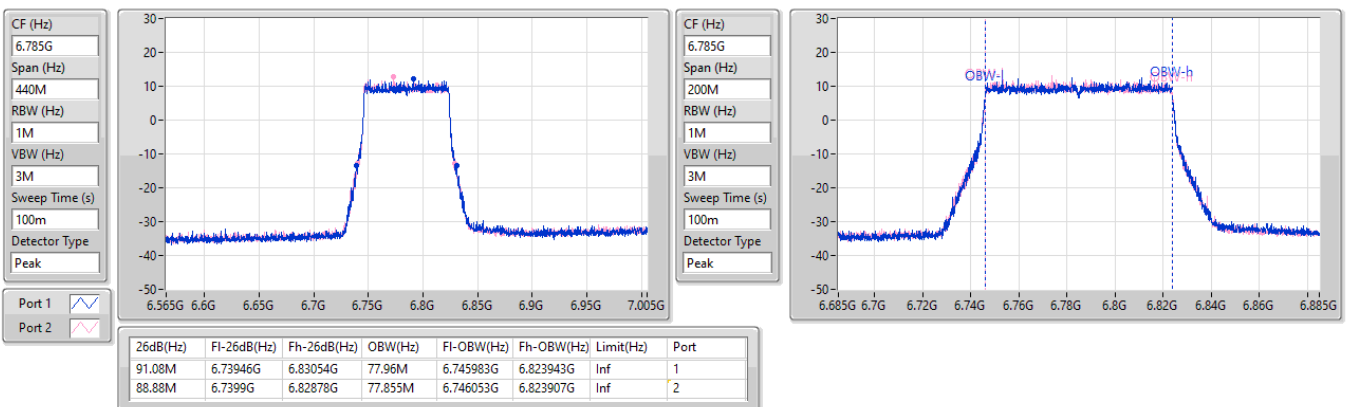


6.525-6.875GHz_802.11be EHT80_Nss1,(MCS0)_2TX

EBW

6785MHz

14/02/2025

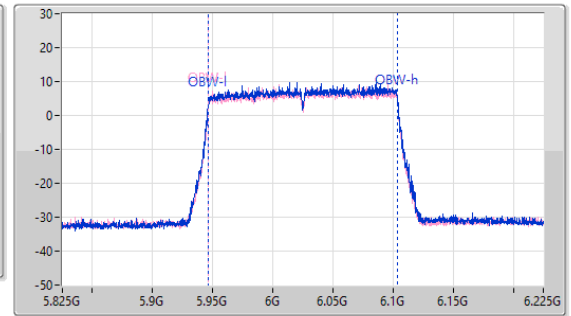
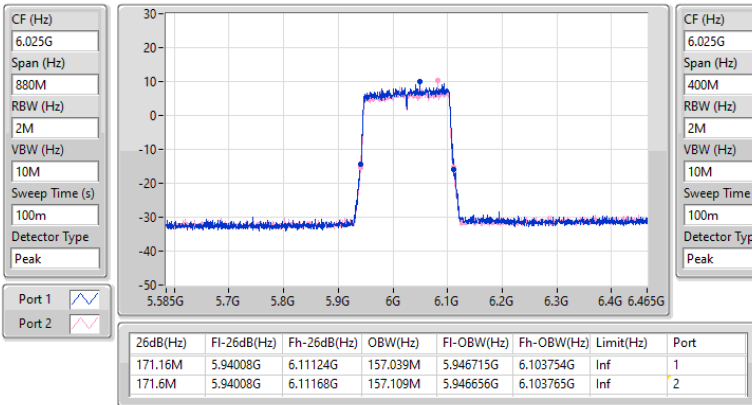


5.925-6.425GHz_802.11be EHT160_Nss1,(MCS0)_2TX

EBW

6025MHz

14/02/2025

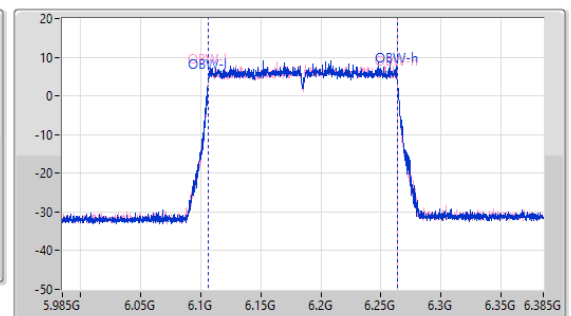
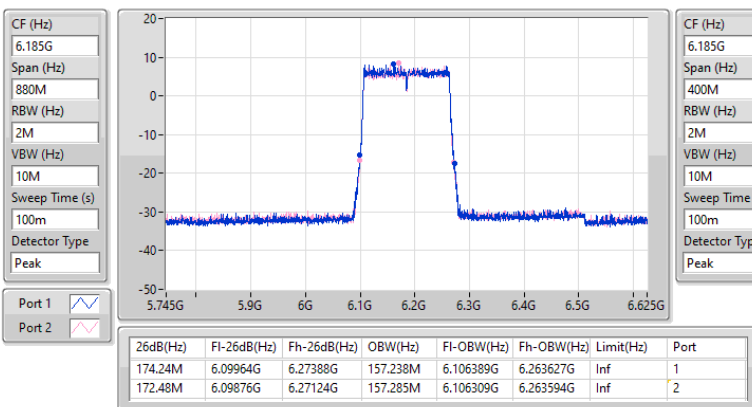


5.925-6.425GHz_802.11be EHT160_Nss1,(MCS0)_2TX

EBW

6185MHz

14/02/2025

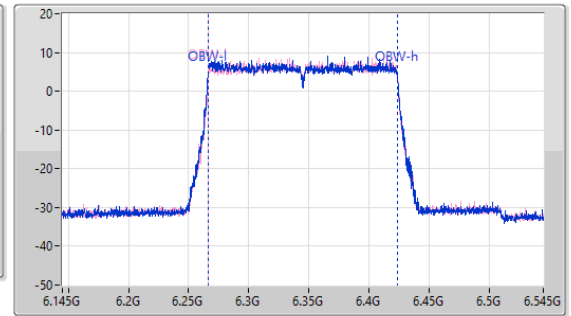
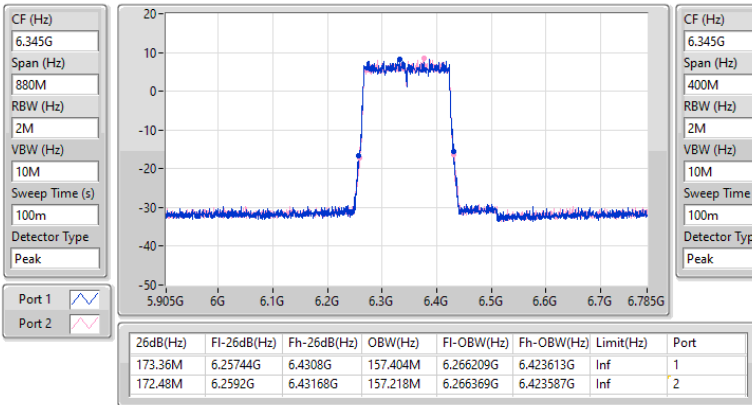


5.925-6.425GHz_802.11be EHT160_Nss1,(MCS0)_2TX

EBW

6345MHz

14/02/2025

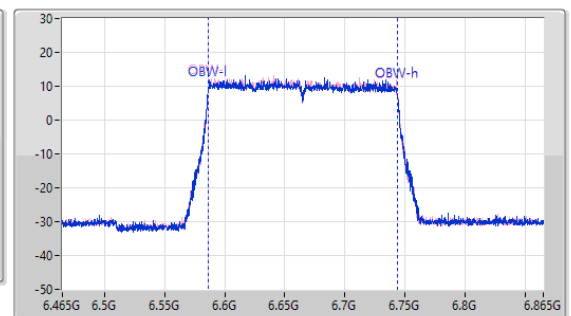
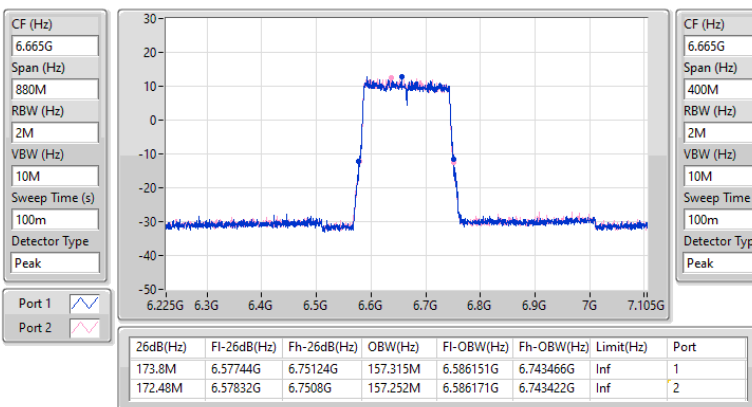


6.525-6.875GHz_802.11be EHT160_Nss1,(MCS0)_2TX

EBW

6665MHz

14/02/2025

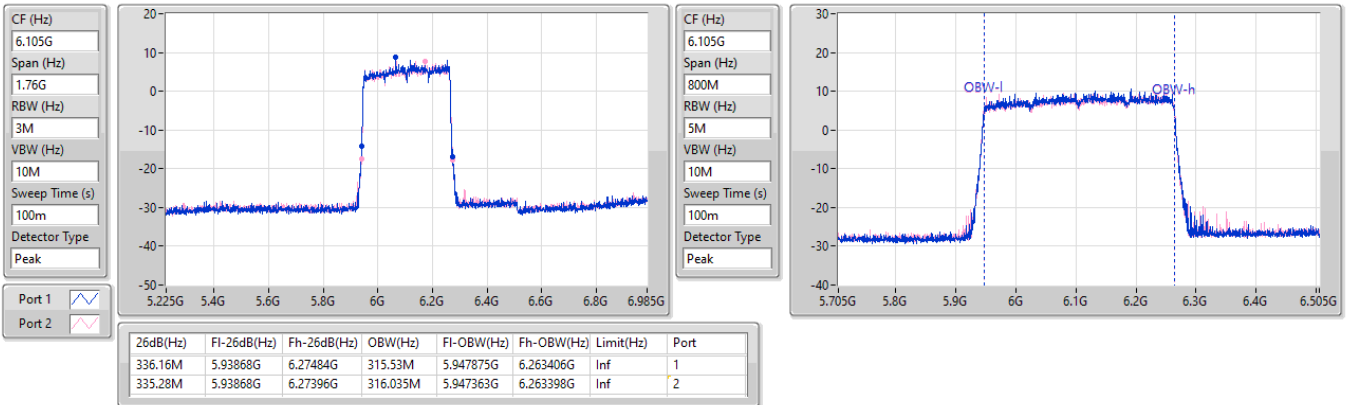


5.925-6.425GHz_802.11be EHT320_Nss1,(MCS0)_2TX

EBW

6105MHz

14/02/2025

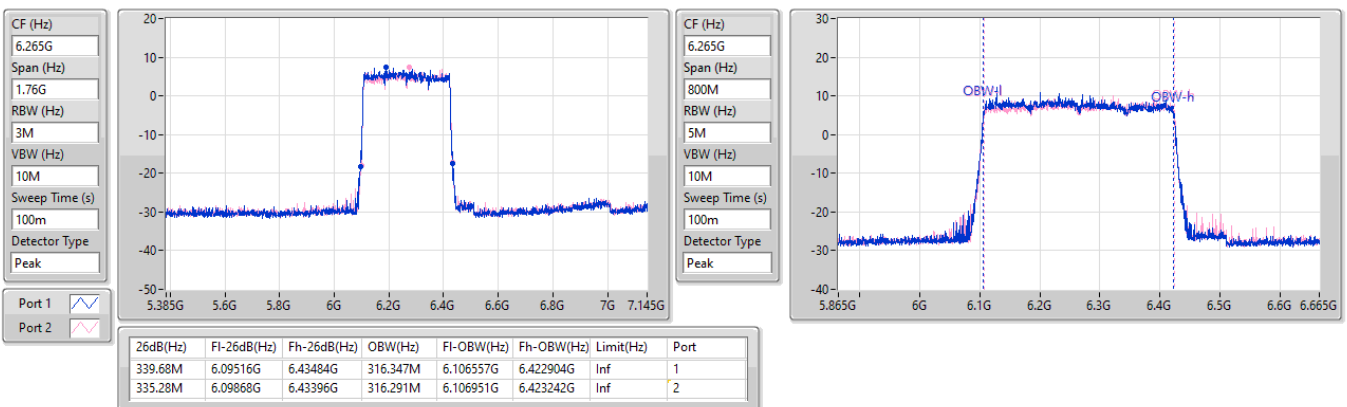


5.925-6.425GHz_802.11be EHT320_Nss1,(MCS0)_2TX

EBW

6265MHz

14/02/2025

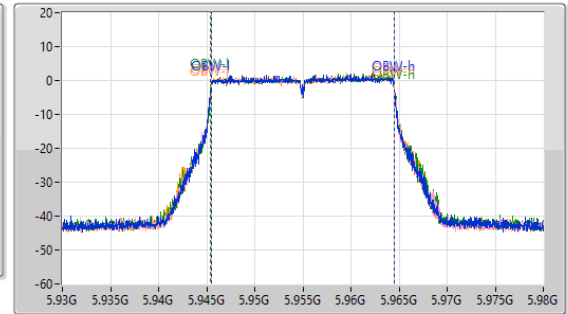
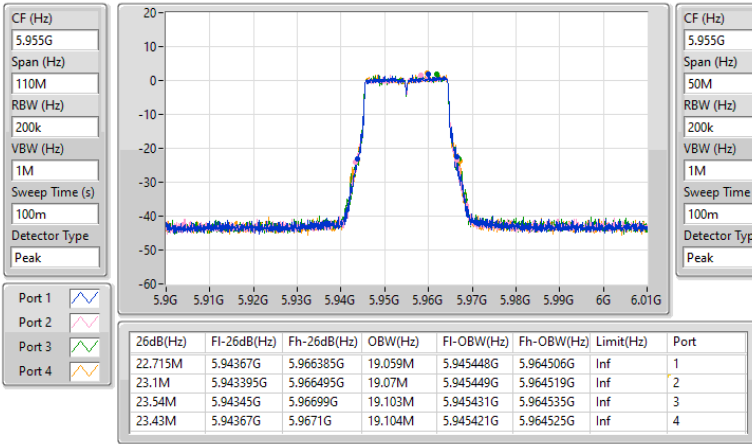


5.925-6.425GHz_802.11be EHT20_Nss1,(MCS0)_4TX

EBW

5955MHz

15/02/2025

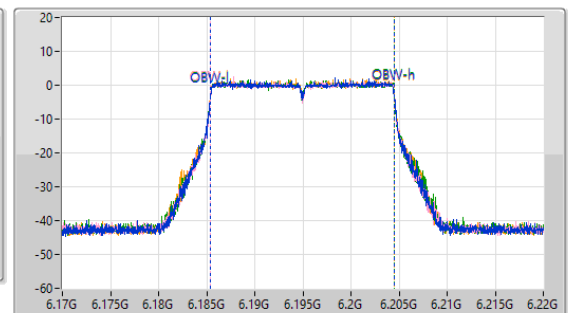
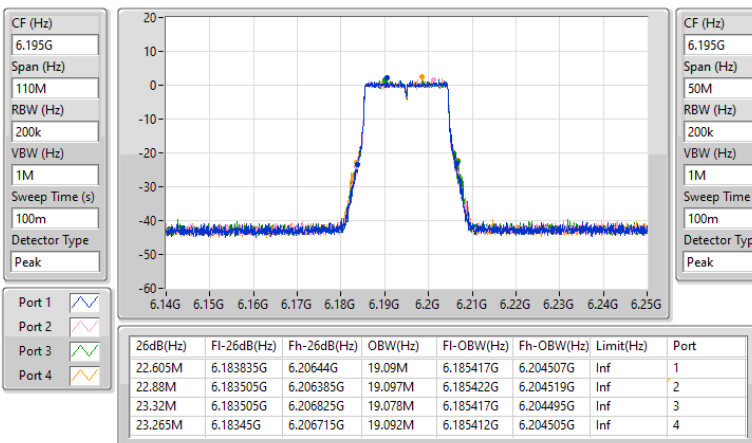


5.925-6.425GHz_802.11be EHT20_Nss1,(MCS0)_4TX

EBW

6195MHz

15/02/2025

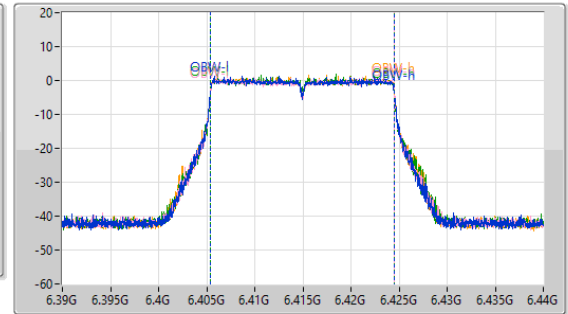
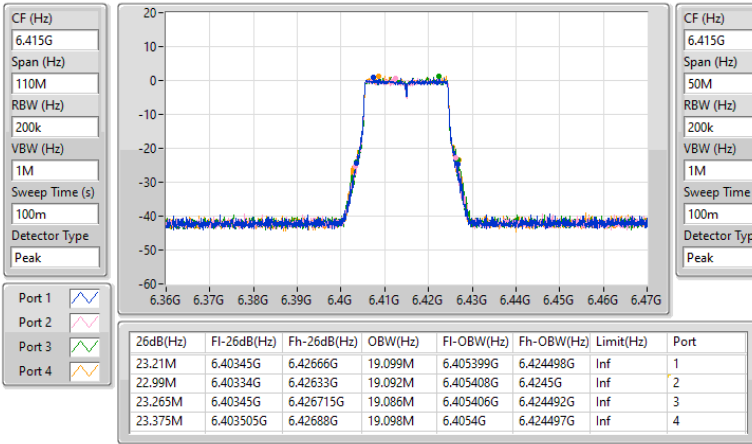


5.925-6.425GHz_802.11be EHT20_Nss1,(MCS0)_4TX

EBW

6415MHz

15/02/2025

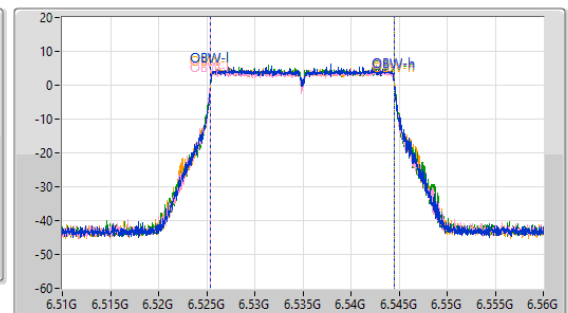
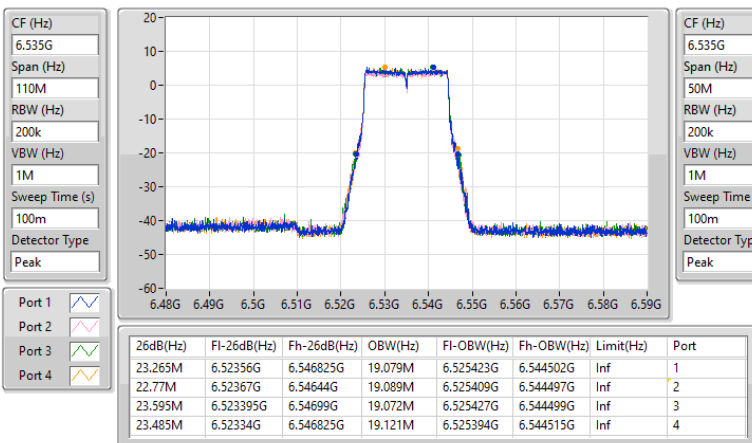


6.525-6.875GHz_802.11be EHT20_Nss1,(MCS0)_4TX

EBW

6535MHz

15/02/2025

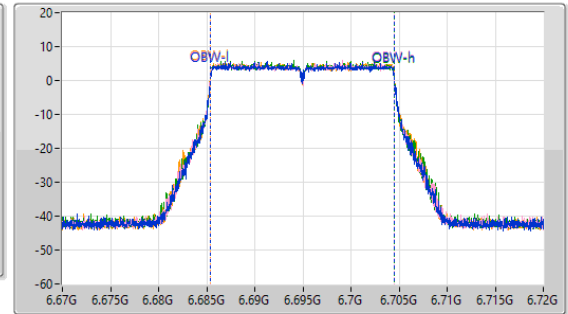
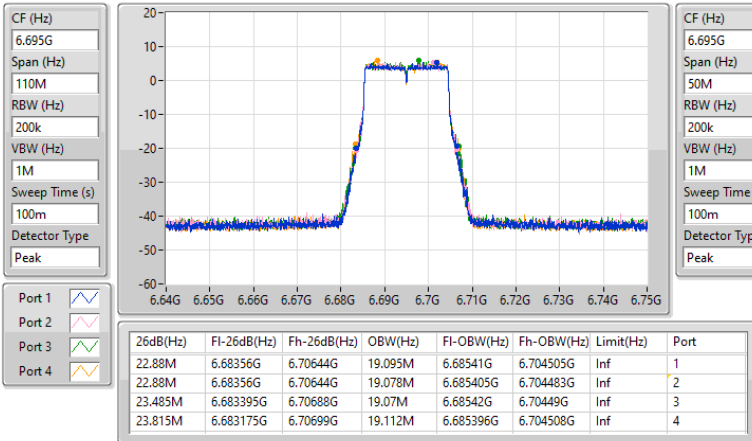


6.525-6.875GHz_802.11be EHT20_Nss1,(MCS0)_4TX

EBW

6695MHz

15/02/2025

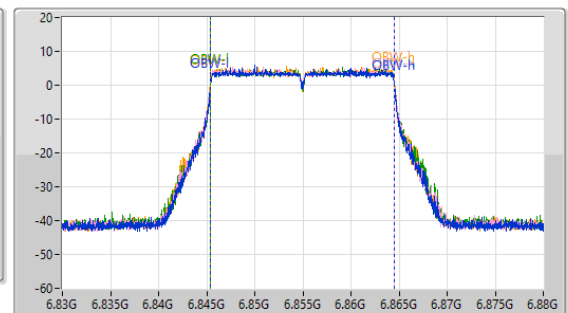
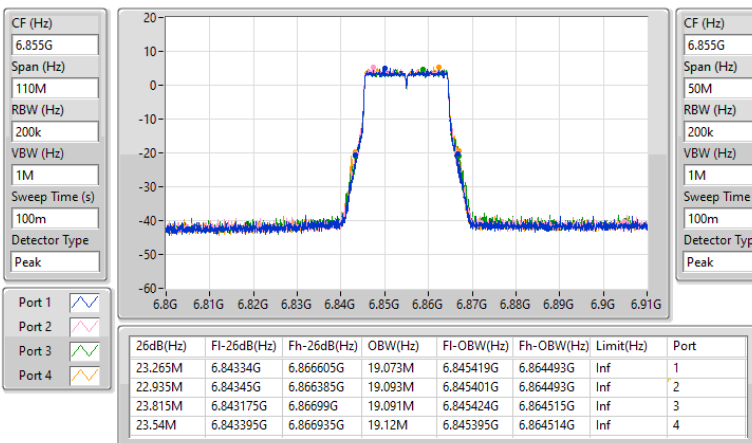


6.525-6.875GHz_802.11be EHT20_Nss1,(MCS0)_4TX

EBW

6855MHz

15/02/2025

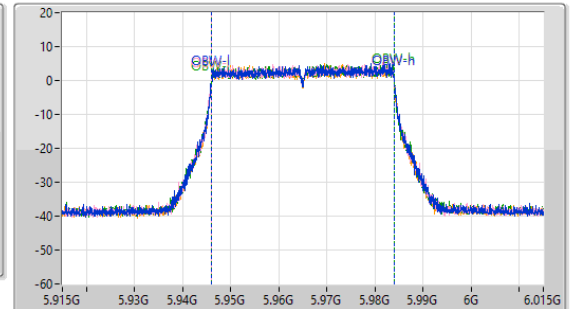
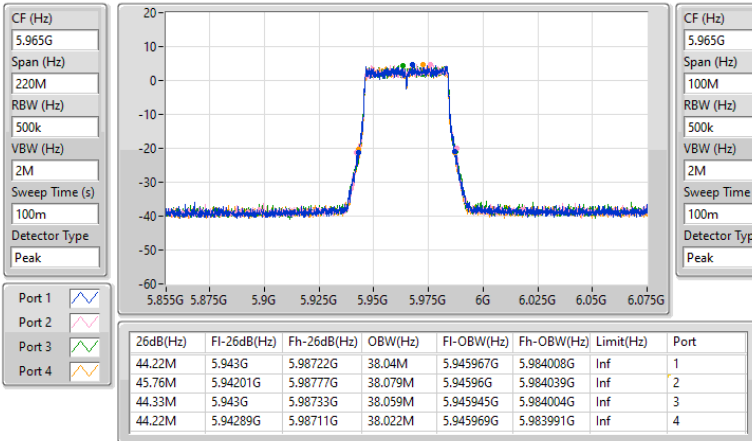


5.925-6.425GHz_802.11be EHT40_Nss1,(MCS0)_4TX

EBW

5965MHz

15/02/2025

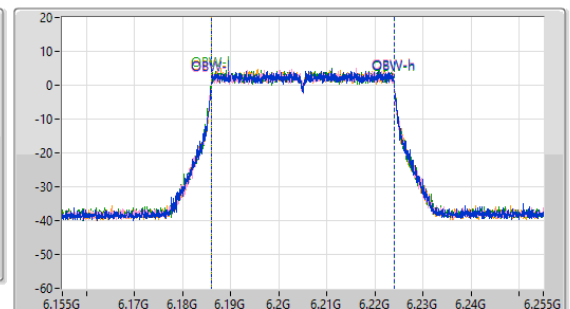
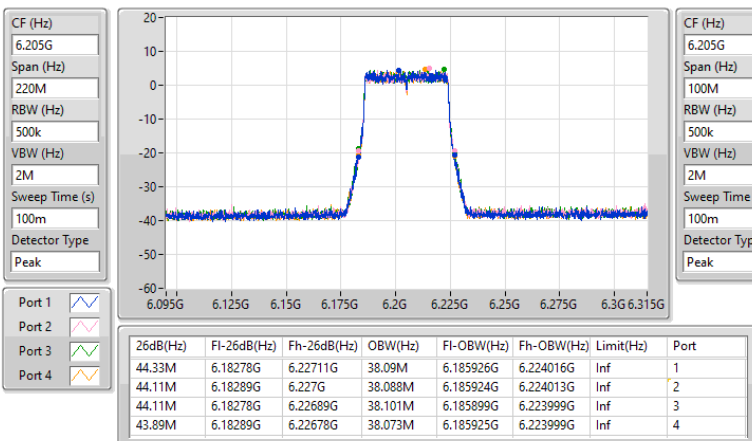


5.925-6.425GHz_802.11be EHT40_Nss1,(MCS0)_4TX

EBW

6205MHz

15/02/2025

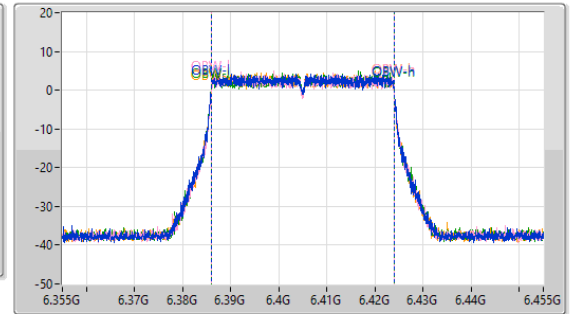
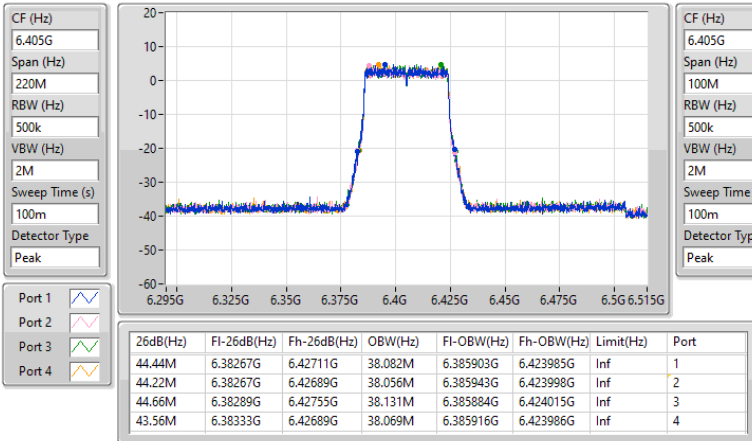


5.925-6.425GHz_802.11be EHT40_Nss1,(MCS0)_4TX

EBW

6405MHz

15/02/2025

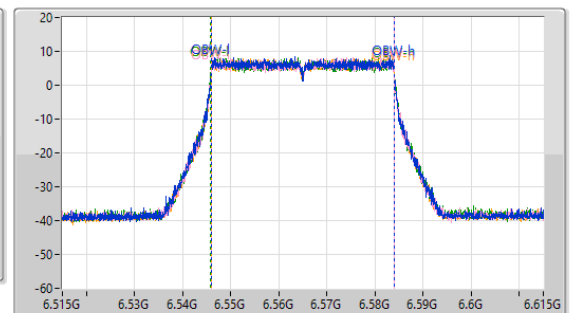
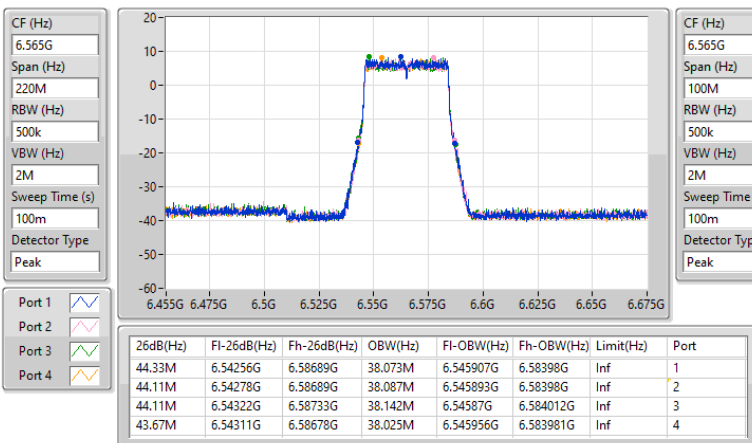


6.525-6.875GHz_802.11be EHT40_Nss1,(MCS0)_4TX

EBW

6565MHz

15/02/2025

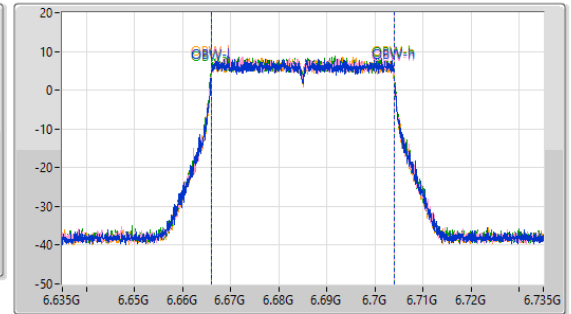
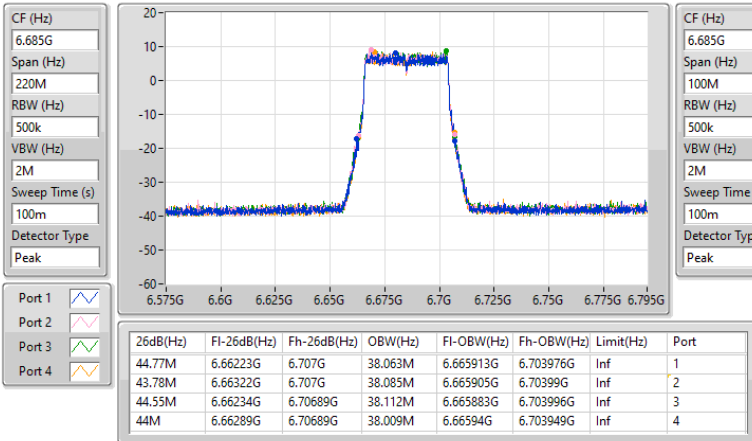


6.525-6.875GHz_802.11be EHT40_Nss1,(MCS0)_4TX

EBW

6685MHz

15/02/2025

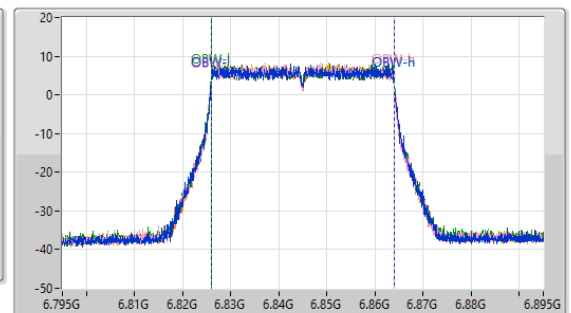
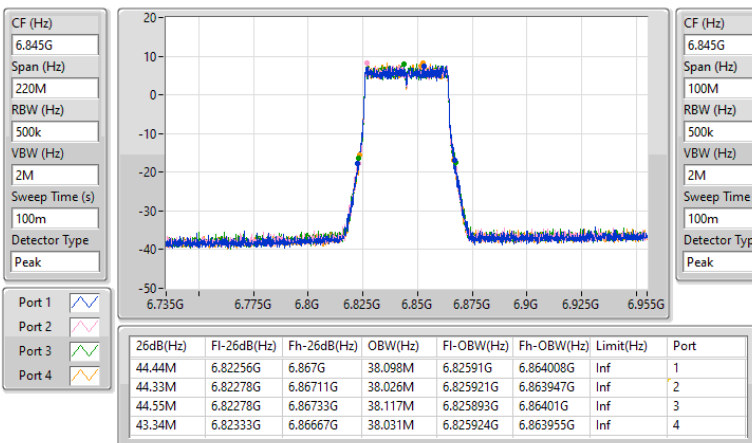


6.525-6.875GHz_802.11be EHT40_Nss1,(MCS0)_4TX

EBW

6845MHz

15/02/2025

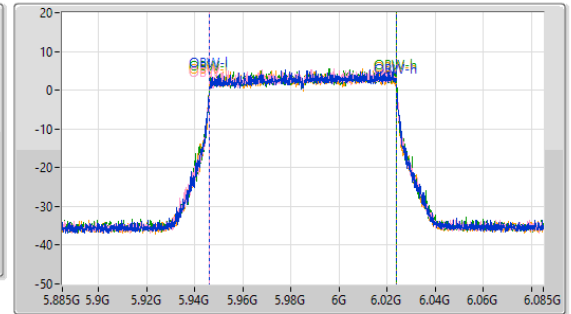
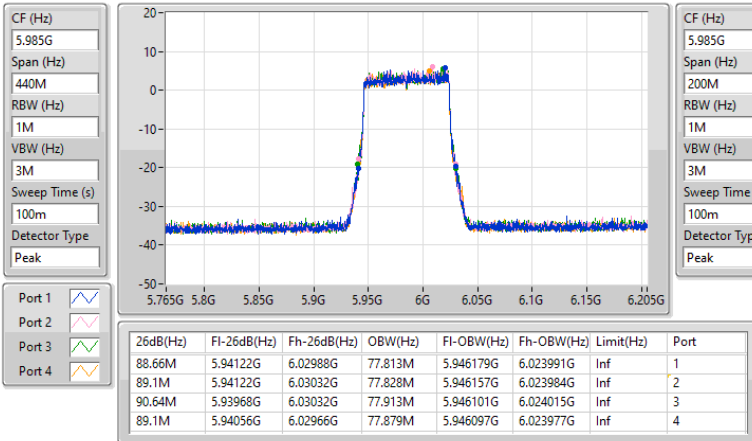


5.925-6.425GHz_802.11be EHT80_Nss1,(MCS0)_4TX

EBW

5985MHz

15/02/2025

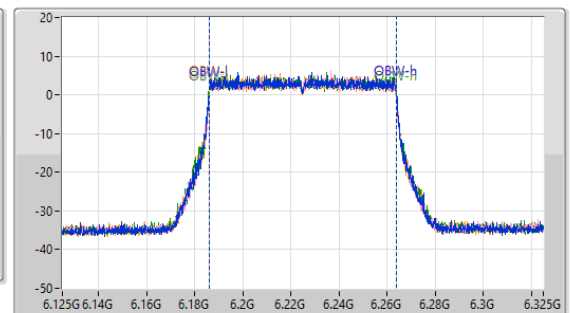
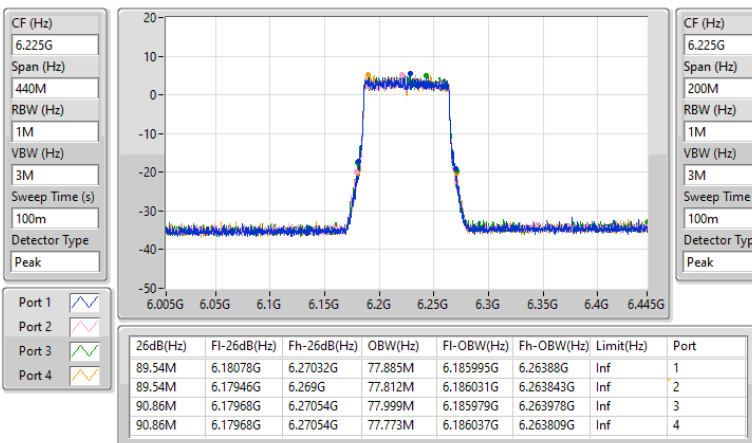


5.925-6.425GHz_802.11be EHT80_Nss1,(MCS0)_4TX

EBW

6225MHz

15/02/2025

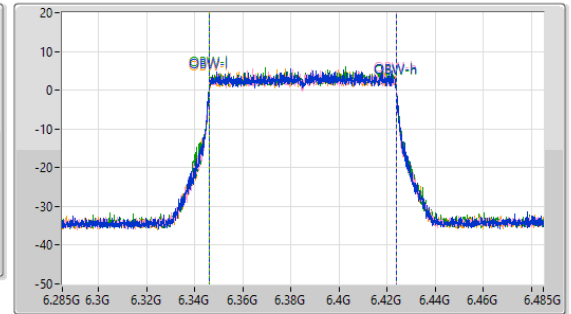
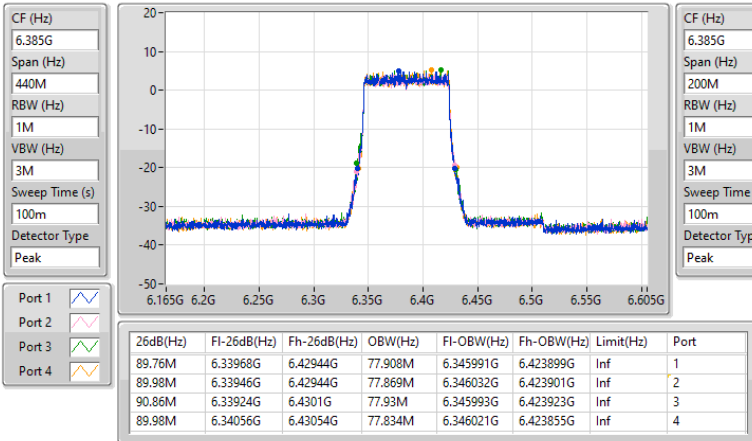


5.925-6.425GHz_802.11be EHT80_Nss1,(MCS0)_4TX

EBW

6385MHz

15/02/2025

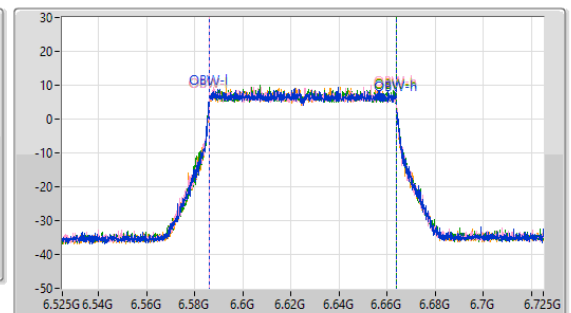
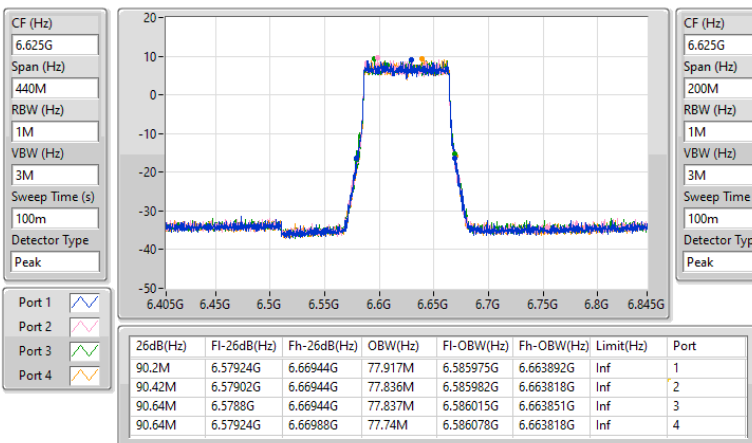


6.525-6.875GHz_802.11be EHT80_Nss1,(MCS0)_4TX

EBW

6625MHz

15/02/2025

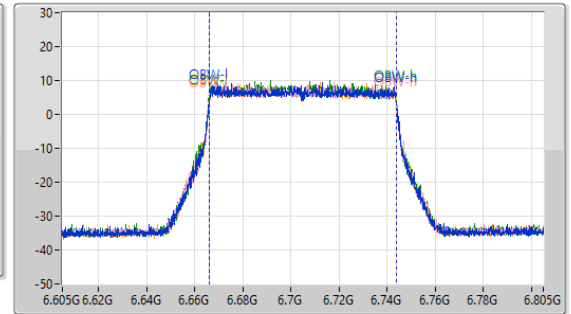
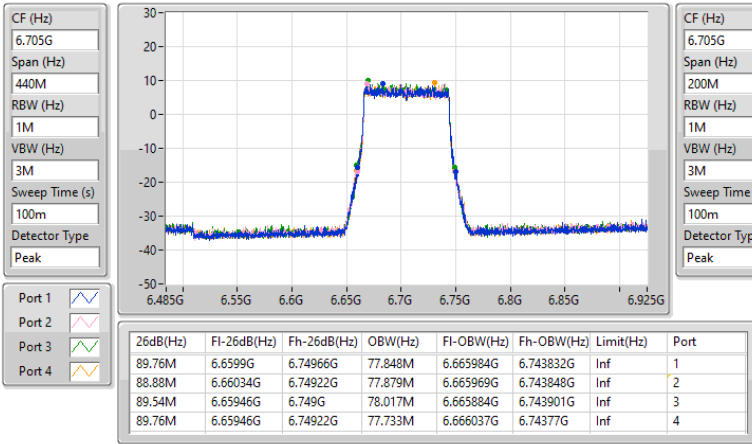


6.525-6.875GHz_802.11be EHT80_Nss1,(MCS0)_4TX

EBW

6705MHz

15/02/2025

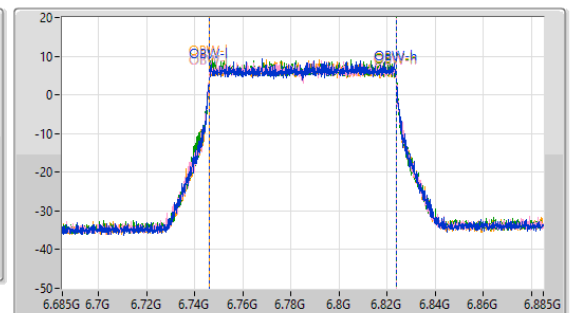
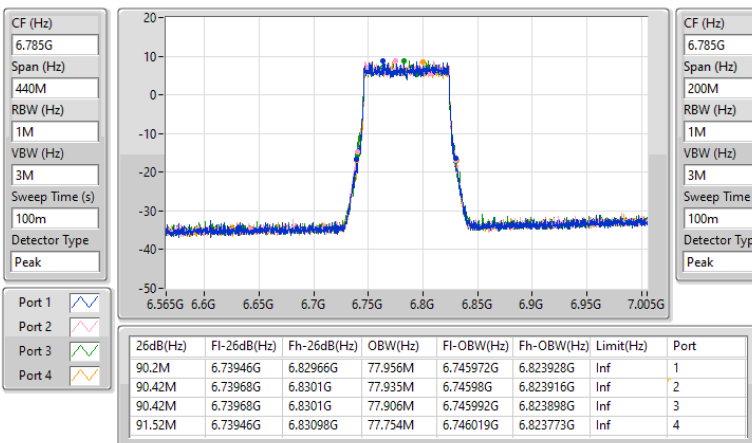


6.525-6.875GHz_802.11be EHT80_Nss1,(MCS0)_4TX

EBW

6785MHz

15/02/2025

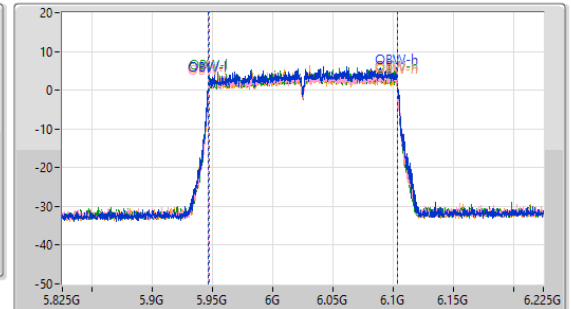
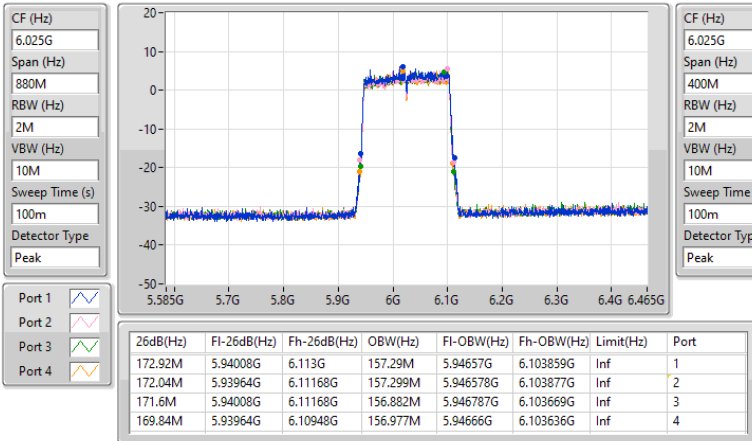


5.925-6.425GHz_802.11be EHT160_Nss1,(MCS0)_4TX

EBW

6025MHz

15/02/2025

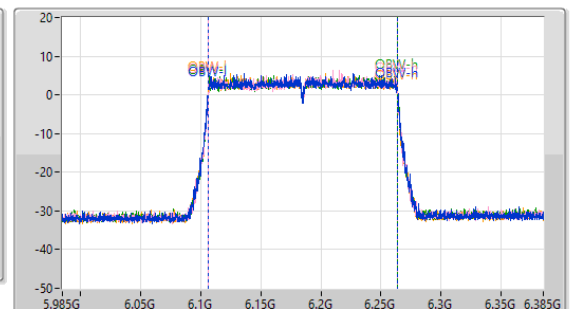
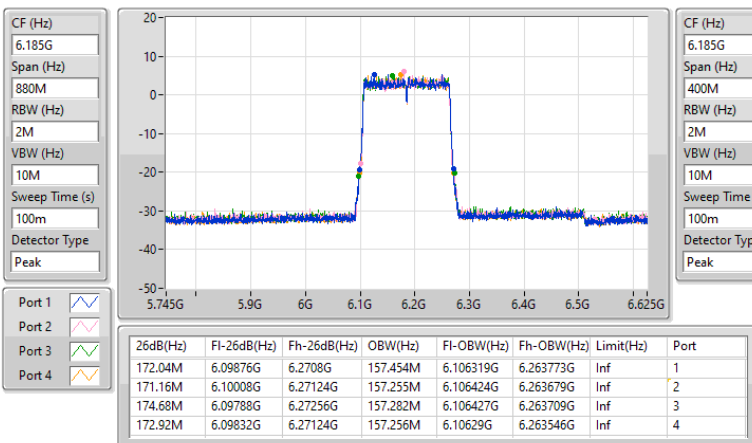


5.925-6.425GHz_802.11be EHT160_Nss1,(MCS0)_4TX

EBW

6185MHz

15/02/2025

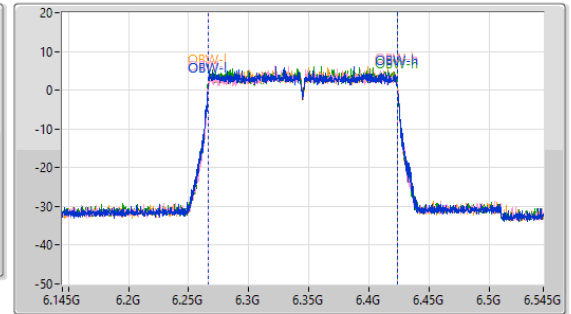
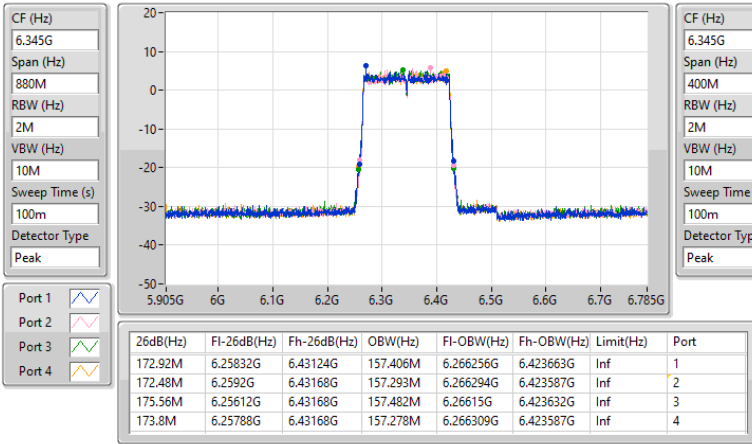


5.925-6.425GHz_802.11be EHT160_Nss1,(MCS0)_4TX

EBW

6345MHz

15/02/2025

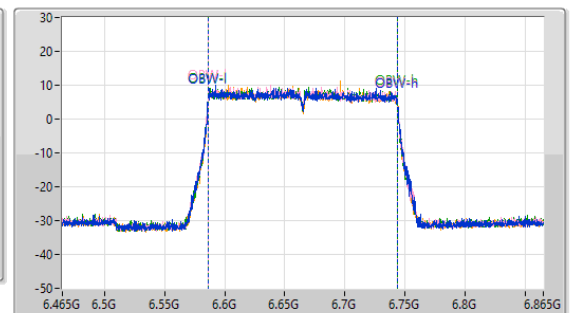
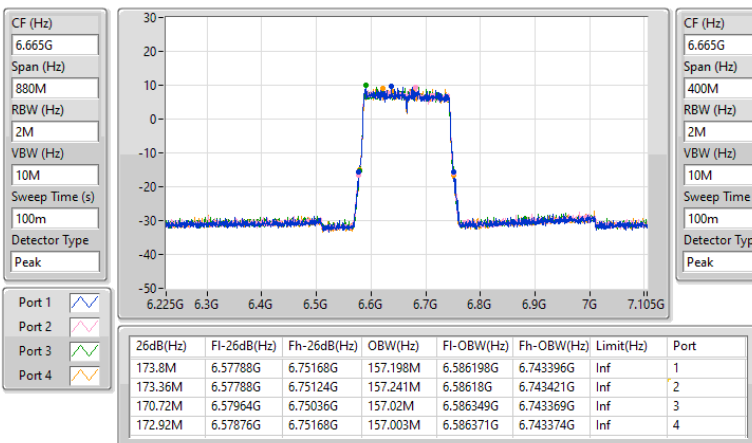


6.525-6.875GHz_802.11be EHT160_Nss1,(MCS0)_4TX

EBW

6665MHz

15/02/2025

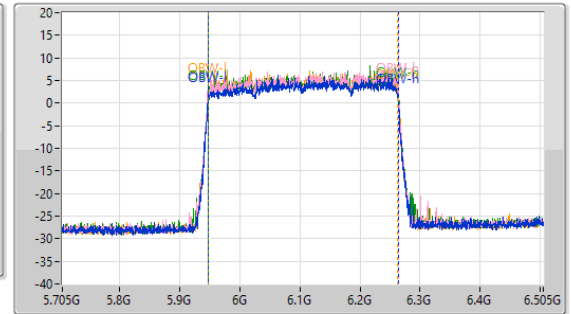
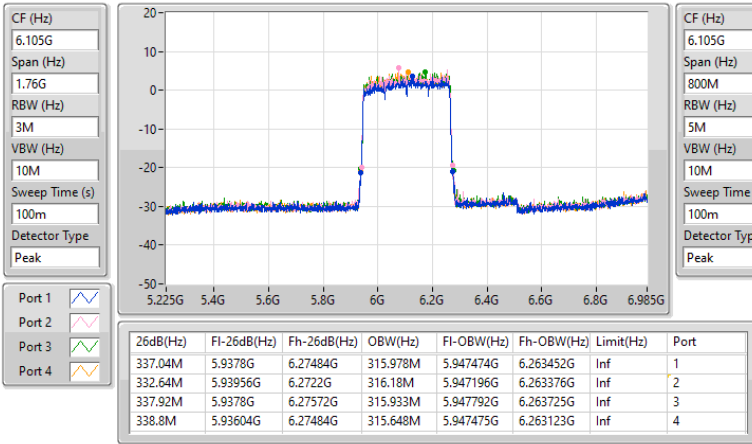


5.925-6.425GHz_802.11be EHT320_Nss1,(MCS0)_4TX

EBW

6105MHz

15/02/2025

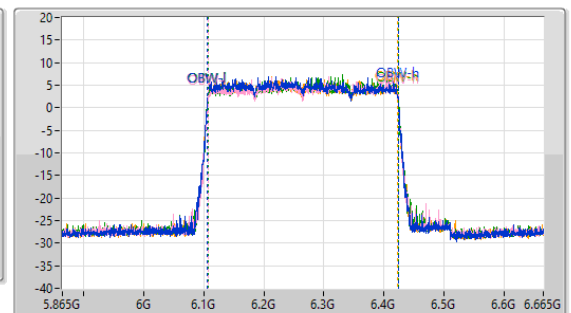
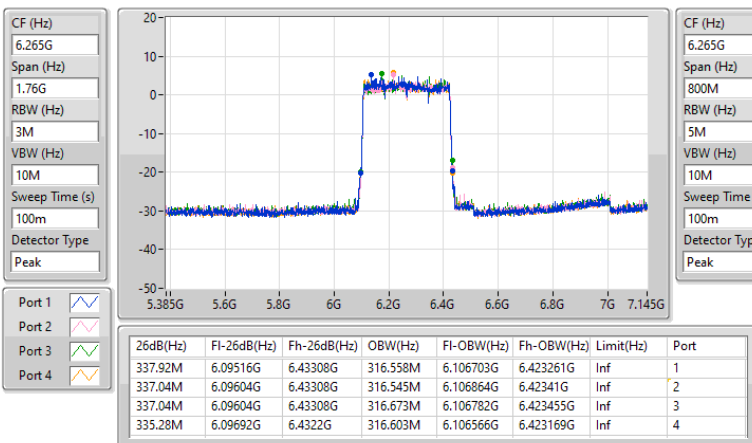


5.925-6.425GHz_802.11be EHT320_Nss1,(MCS0)_4TX

EBW

6265MHz

15/02/2025





EBW_R4_Narrow Beam_BF mode (2TX)
(Variant Device / FCC ID: UDX-600216020)

Appendix B.3

Summary

Mode	Max-N dB	Max-OBW	ITU-Code	Min-N dB	Min-OBW
	(Hz)	(Hz)		(Hz)	(Hz)
5.925-6.425GHz	-	-	-	-	-
802.11be EHT20-BF_Nss1,(MCS0)_2TX	22.55M	19.144M	19M1D1D	21.395M	19.001M
802.11be EHT40-BF_Nss1,(MCS0)_2TX	44.11M	38.586M	38M6D1D	42.9M	37.955M
802.11be EHT80-BF_Nss1,(MCS0)_2TX	91.08M	78.125M	78M1D1D	86.9M	77.49M
802.11be EHT160-BF_Nss1,(MCS0)_2TX	174.24M	157.506M	158MD1D	170.28M	157.033M
802.11be EHT320-BF_Nss1,(MCS0)_2TX	338.8M	316.547M	317MD1D	333.52M	314.333M
6.525-6.875GHz	-	-	-	-	-
802.11be EHT20-BF_Nss1,(MCS0)_2TX	22.77M	19.09M	19M1D1D	21.285M	19.006M
802.11be EHT40-BF_Nss1,(MCS0)_2TX	50.16M	38.162M	38M2D1D	41.69M	38.051M
802.11be EHT80-BF_Nss1,(MCS0)_2TX	91.74M	77.977M	78MD1D	83.16M	77.696M
802.11be EHT160-BF_Nss1,(MCS0)_2TX	174.24M	157.172M	157MD1D	169.4M	156.84M

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



EBW_R4_Narrow Beam_BF mode (2TX)
(Variant Device / FCC ID: UDX-600216020)

Appendix B.3

Result

Mode	Result	Limit	Port 1-N dB	Port 1-OBW	Port 2-N dB	Port 2-OBW
		(Hz)	(Hz)	(Hz)	(Hz)	(Hz)
802.11be EHT20-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5955MHz	Pass	Inf	21.945M	19.043M	21.78M	19.096M
6195MHz	Pass	Inf	22.275M	19.069M	22.33M	19.033M
6415MHz	Pass	Inf	21.395M	19.001M	22.55M	19.144M
6535MHz	Pass	Inf	21.835M	19.073M	22.33M	19.076M
6695MHz	Pass	Inf	21.285M	19.006M	22.275M	19.09M
6855MHz	Pass	Inf	22.77M	19.083M	22.22M	19.083M
802.11be EHT40-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5965MHz	Pass	Inf	44.11M	38.586M	42.9M	37.955M
6205MHz	Pass	Inf	43.34M	38.015M	43.34M	38.016M
6405MHz	Pass	Inf	44.11M	38.01M	43.56M	38.061M
6565MHz	Pass	Inf	44.55M	38.104M	44.44M	38.084M
6685MHz	Pass	Inf	41.69M	38.057M	43.23M	38.051M
6845MHz	Pass	Inf	50.16M	38.162M	43.56M	38.11M
802.11be EHT80-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5985MHz	Pass	Inf	89.98M	77.908M	88M	77.931M
6225MHz	Pass	Inf	91.08M	78.075M	86.9M	77.49M
6385MHz	Pass	Inf	91.08M	78.125M	88M	77.51M
6625MHz	Pass	Inf	91.74M	77.768M	88.88M	77.977M
6705MHz	Pass	Inf	91.74M	77.81M	89.1M	77.837M
6785MHz	Pass	Inf	83.16M	77.696M	88.88M	77.856M
802.11be EHT160-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
6025MHz	Pass	Inf	171.6M	157.094M	171.16M	157.18M
6185MHz	Pass	Inf	174.24M	157.506M	170.28M	157.033M
6345MHz	Pass	Inf	173.8M	157.108M	173.36M	157.39M
6665MHz	Pass	Inf	174.24M	157.172M	169.4M	156.84M
802.11be EHT320-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
6105MHz	Pass	Inf	333.52M	314.333M	337.04M	316.547M
6265MHz	Pass	Inf	336.16M	315.706M	338.8M	315.728M

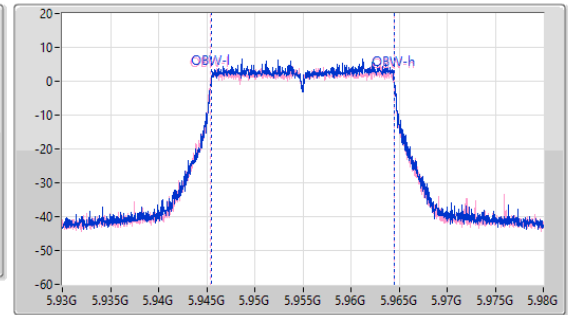
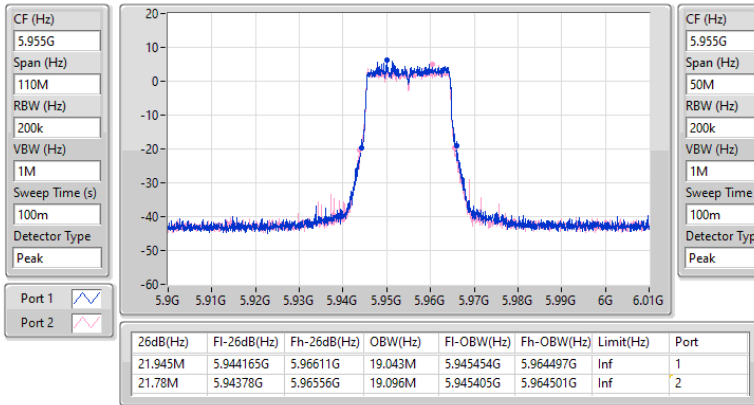
Port X-N dB = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band
Port X-OBW = Port X 99% occupied bandwidth

5.925-6.425GHz_802.11be EHT20-BF_Nss1,(MCS0)_2TX

EBW

5955MHz

15/02/2025

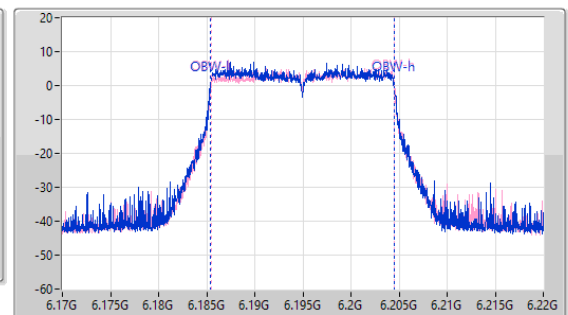
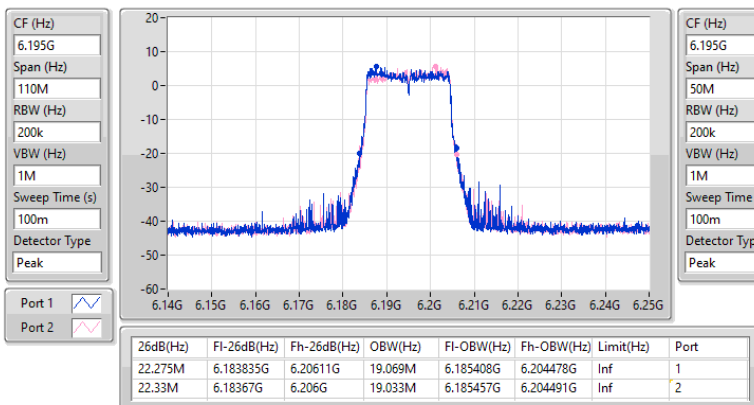


5.925-6.425GHz_802.11be EHT20-BF_Nss1,(MCS0)_2TX

EBW

6195MHz

15/02/2025

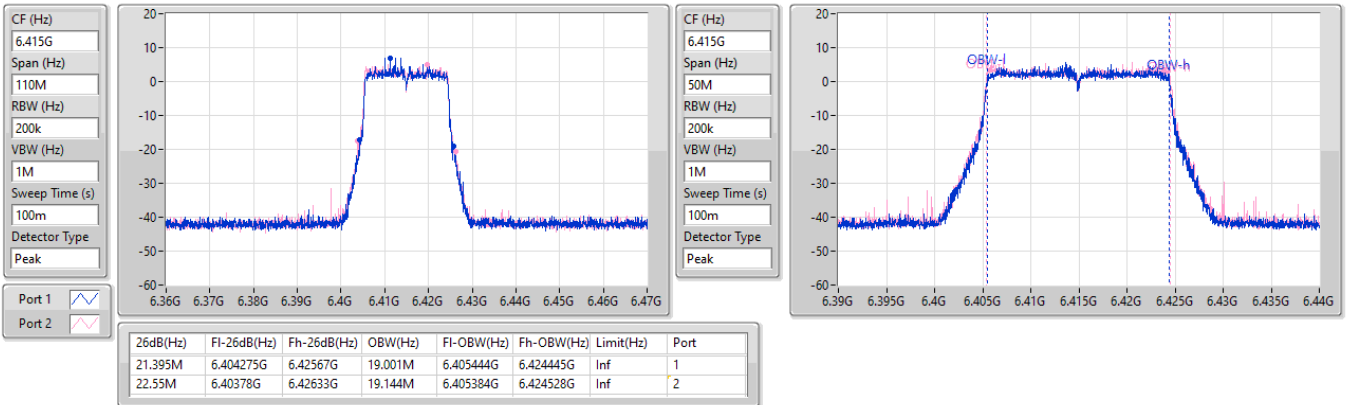


5.925-6.425GHz_802.11be EHT20-BF_Nss1,(MCS0)_2TX

EBW

6415MHz

15/02/2025

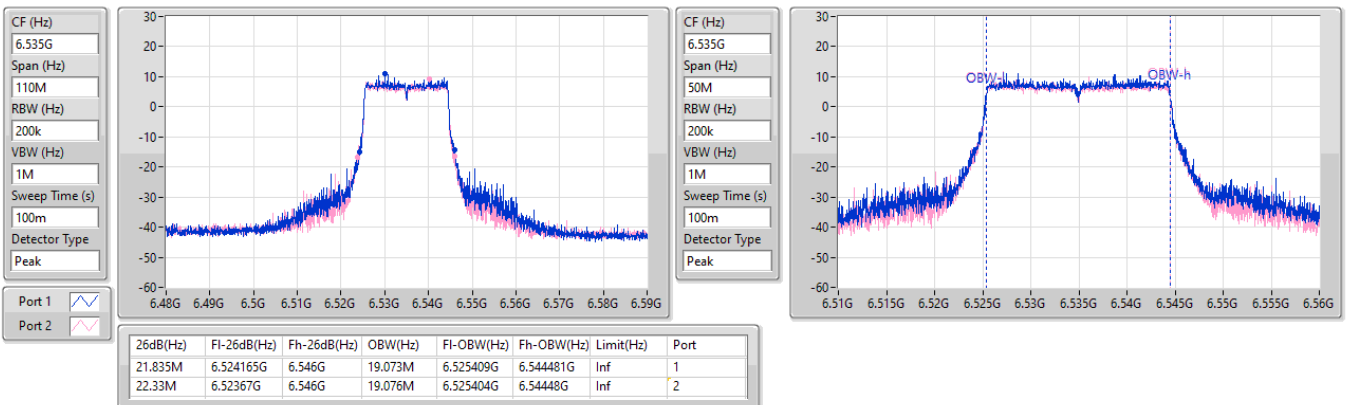


6.525-6.875GHz_802.11be EHT20-BF_Nss1,(MCS0)_2TX

EBW

6535MHz

15/02/2025

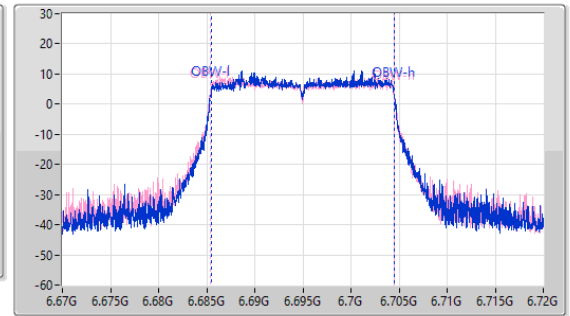
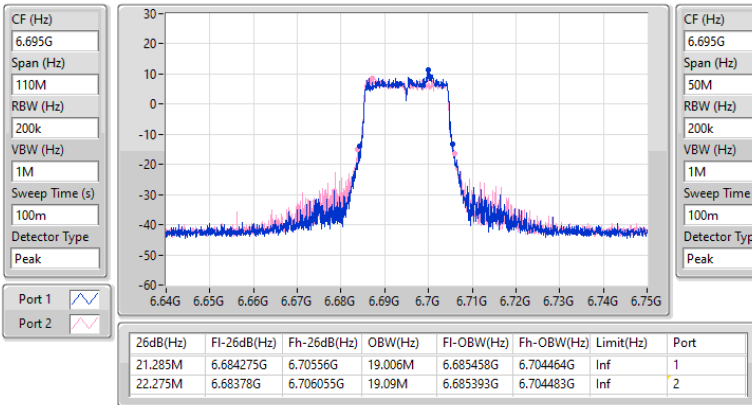


6.525-6.875GHz_802.11be EHT20-BF_Nss1,(MCS0)_2TX

EBW

6695MHz

15/02/2025

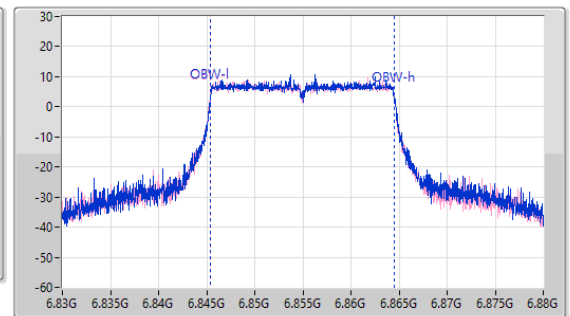
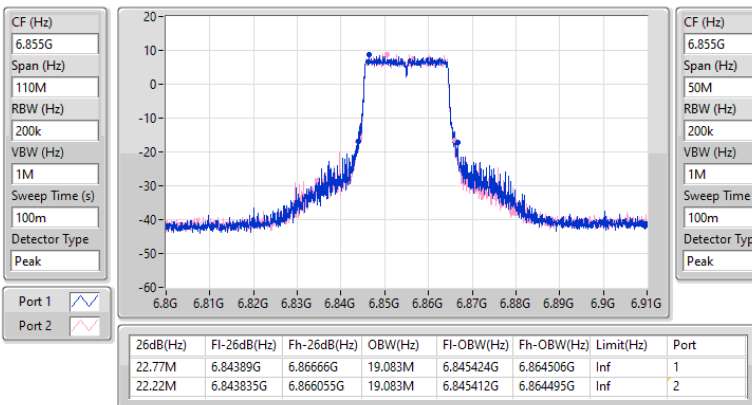


6.525-6.875GHz_802.11be EHT20-BF_Nss1,(MCS0)_2TX

EBW

6855MHz

15/02/2025

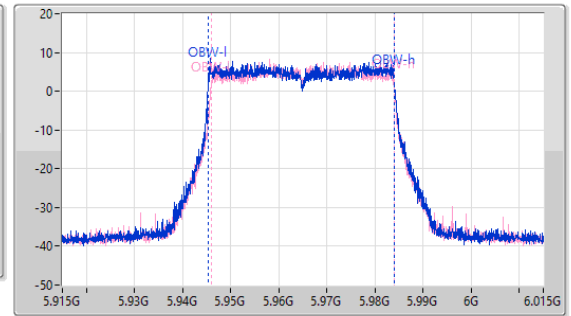
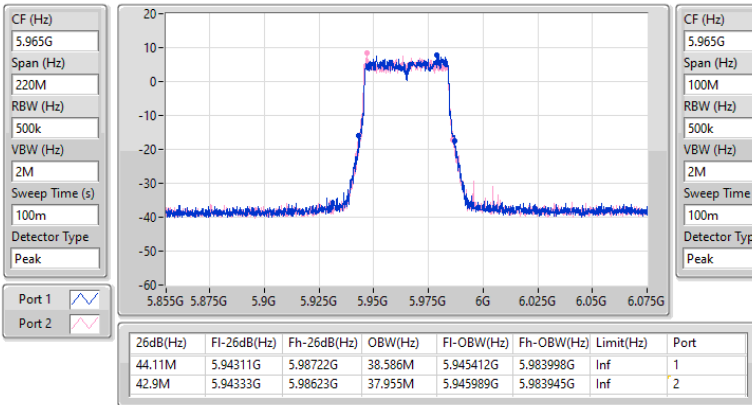


5.925-6.425GHz_802.11be EHT40-BF_Nss1,(MCS0)_2TX

EBW

5965MHz

15/02/2025

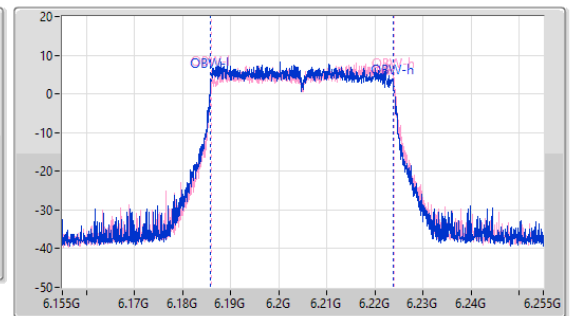
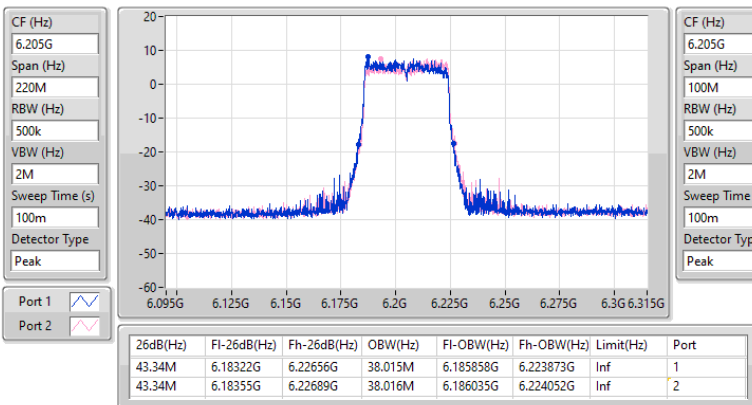


5.925-6.425GHz_802.11be EHT40-BF_Nss1,(MCS0)_2TX

EBW

6205MHz

15/02/2025

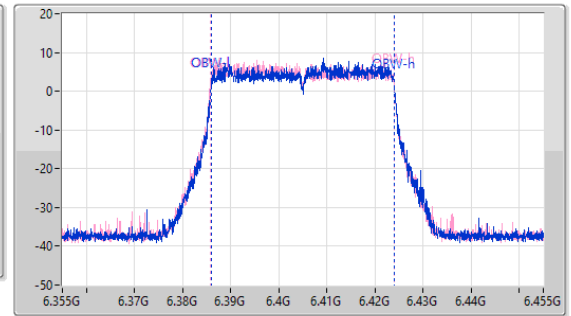
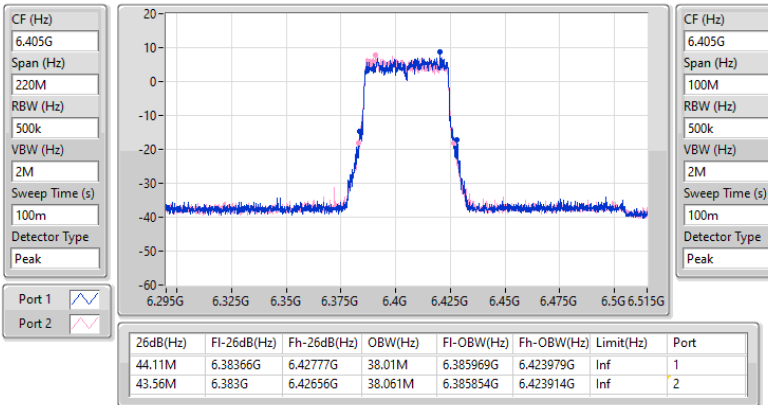


5.925-6.425GHz_802.11be EHT40-BF_Nss1,(MCS0)_2TX

EBW

6405MHz

15/02/2025

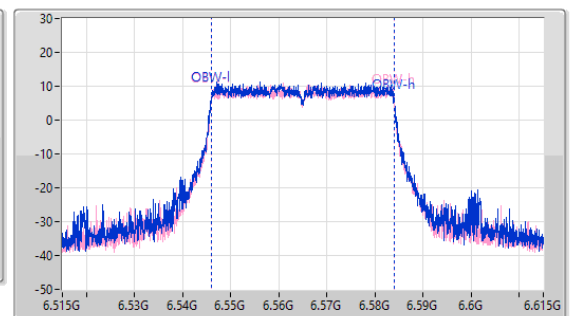
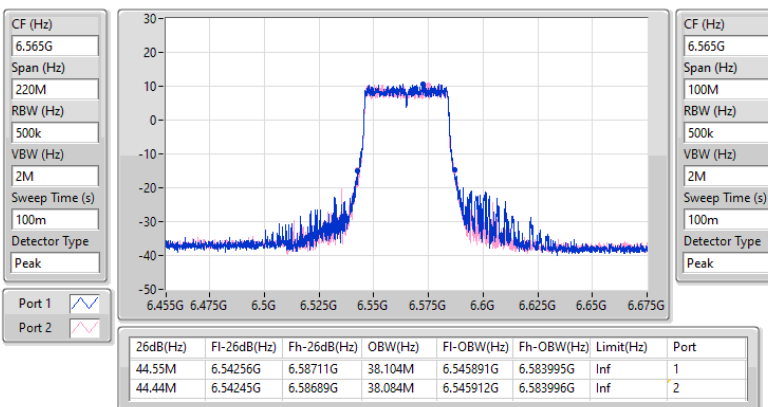


6.525-6.875GHz_802.11be EHT40-BF_Nss1,(MCS0)_2TX

EBW

6565MHz

15/02/2025

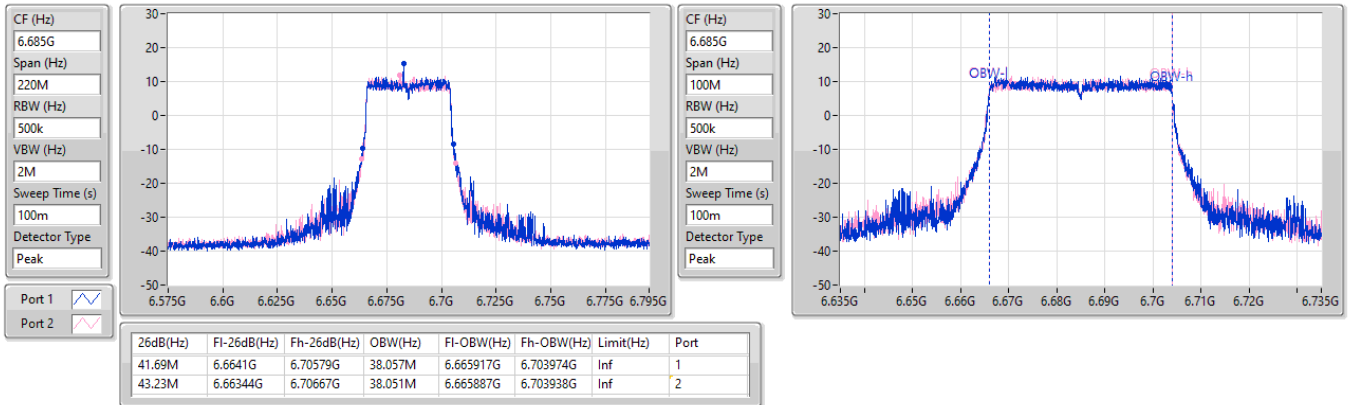


6.525-6.875GHz_802.11be EHT40-BF_Nss1,(MCS0)_2TX

EBW

6685MHz

15/02/2025

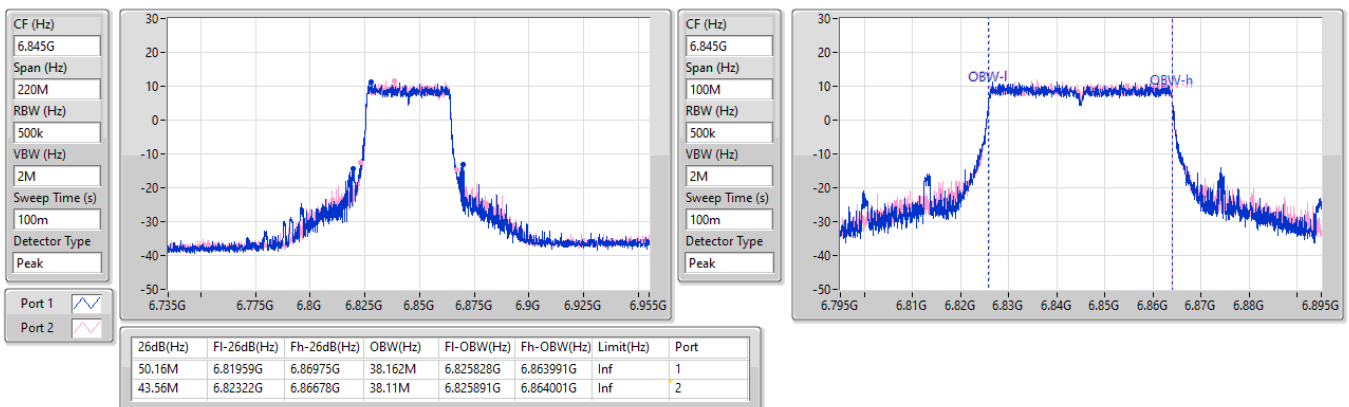


6.525-6.875GHz_802.11be EHT40-BF_Nss1,(MCS0)_2TX

EBW

6845MHz

15/02/2025

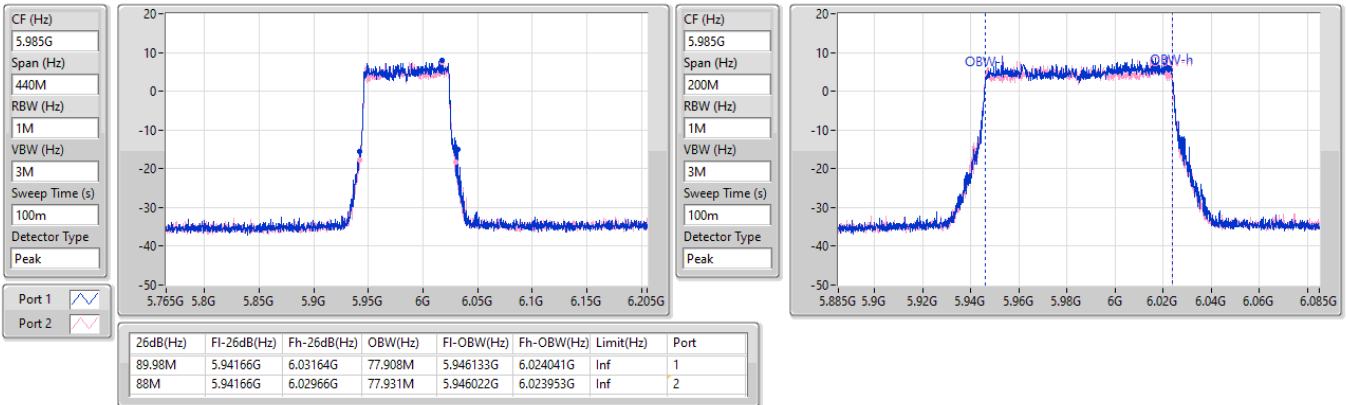


5.925-6.425GHz_802.11be EHT80-BF_Nss1,(MCS0)_2TX

EBW

5985MHz

15/02/2025

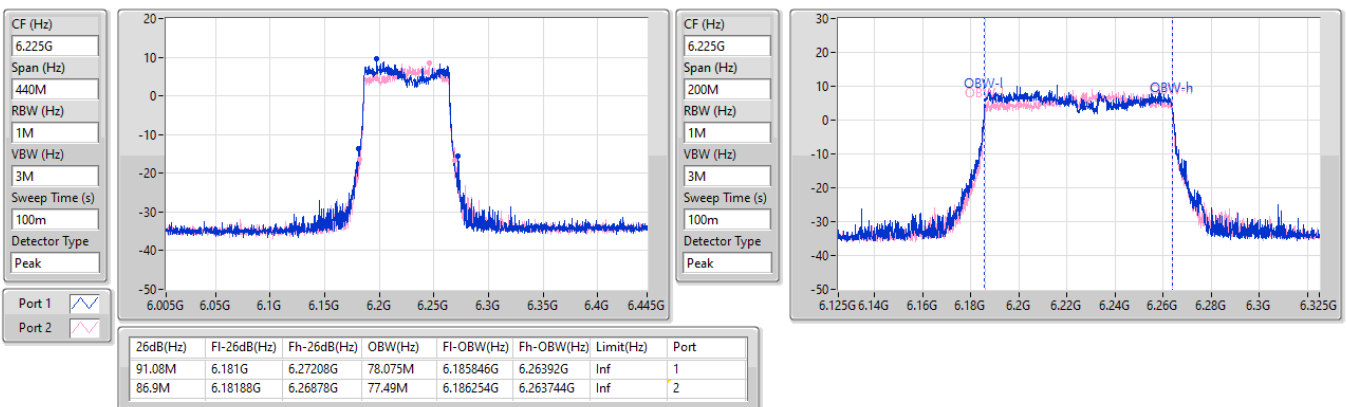


5.925-6.425GHz_802.11be EHT80-BF_Nss1,(MCS0)_2TX

EBW

6225MHz

15/02/2025

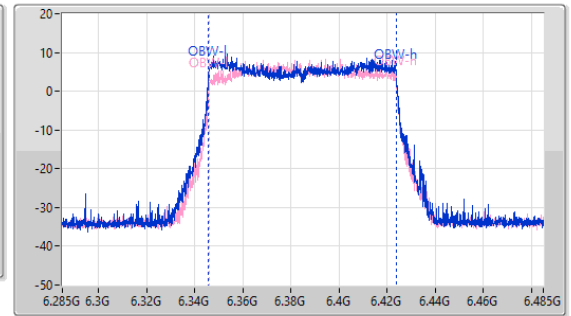
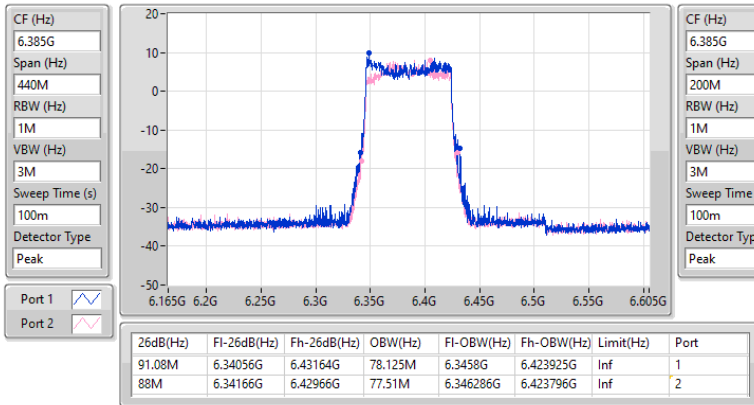


5.925-6.425GHz_802.11be EHT80-BF_Nss1,(MCS0)_2TX

EBW

6385MHz

15/02/2025

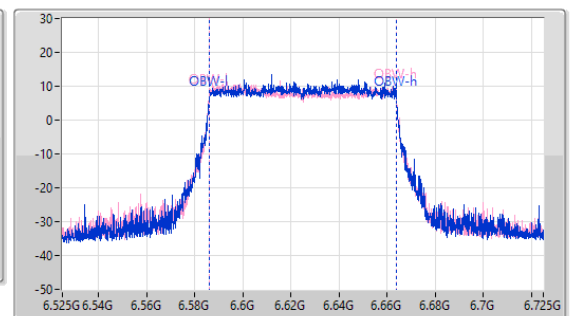
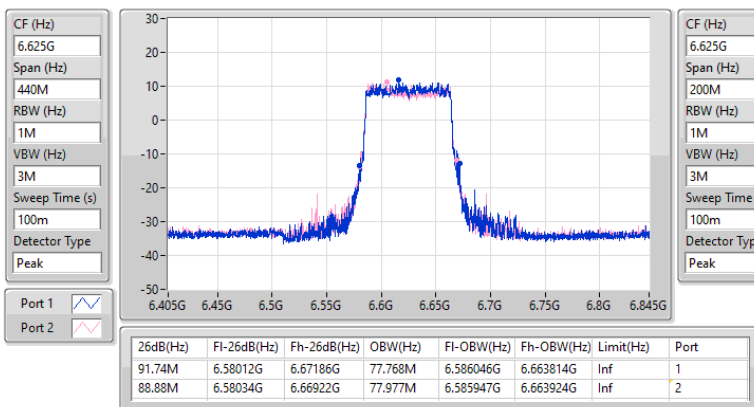


6.525-6.875GHz_802.11be EHT80-BF_Nss1,(MCS0)_2TX

EBW

6625MHz

15/02/2025

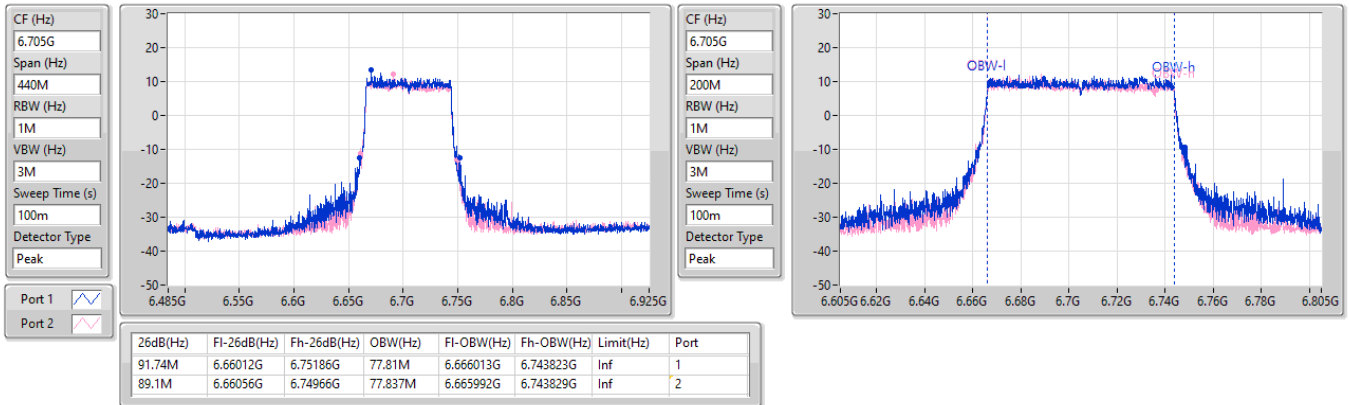


6.525-6.875GHz_802.11be EHT80-BF_Nss1,(MCS0)_2TX

EBW

6705MHz

15/02/2025

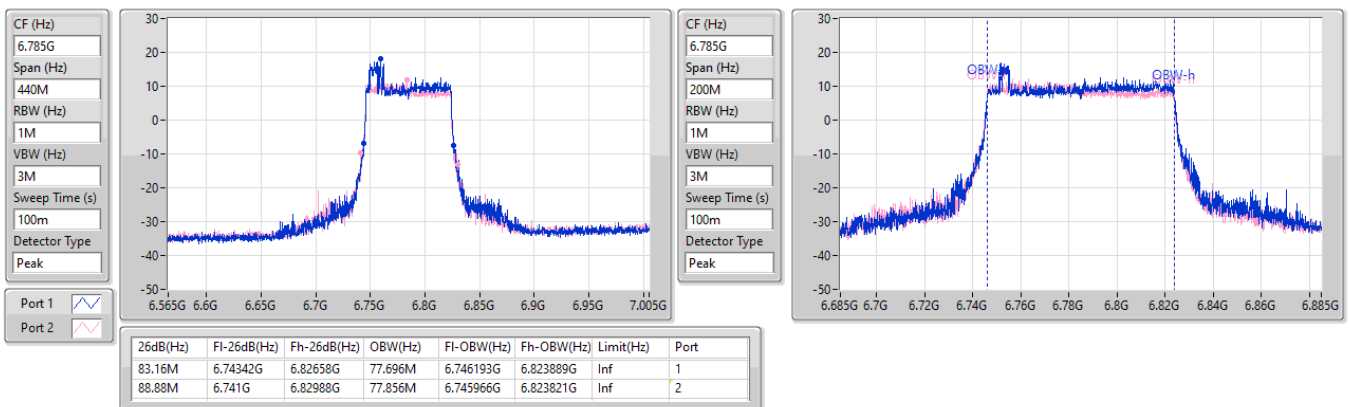


6.525-6.875GHz_802.11be EHT80-BF_Nss1,(MCS0)_2TX

EBW

6785MHz

15/02/2025

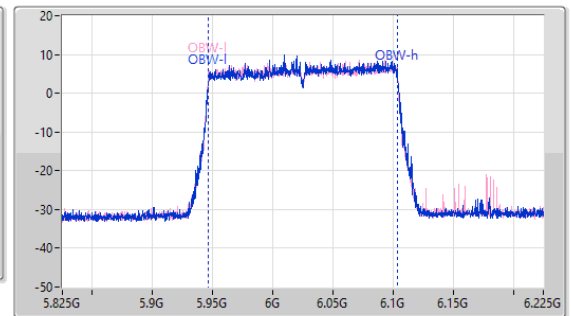
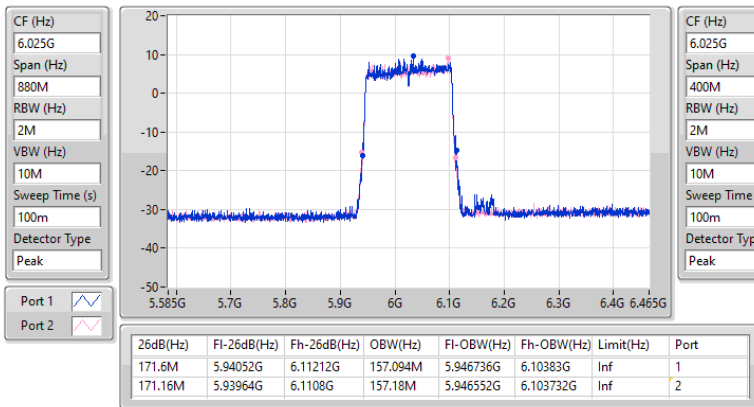


5.925-6.425GHz_802.11be EHT160-BF_Nss1,(MCS0)_2TX

EBW

6025MHz

15/02/2025

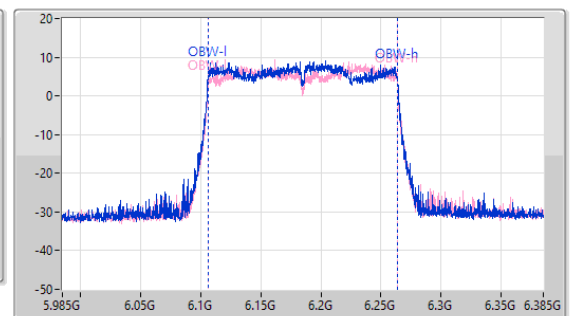
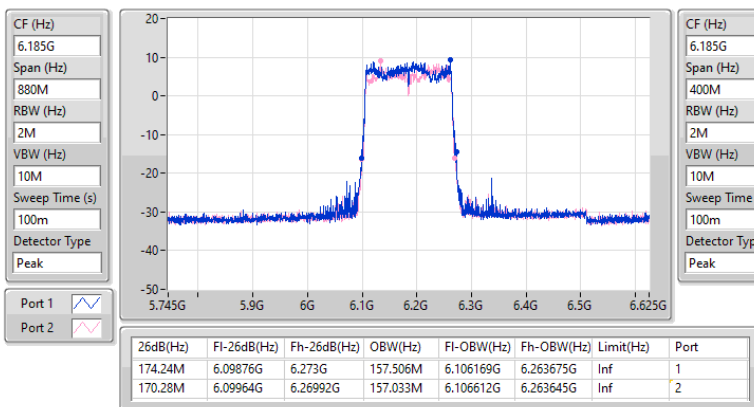


5.925-6.425GHz_802.11be EHT160-BF_Nss1,(MCS0)_2TX

EBW

6185MHz

15/02/2025

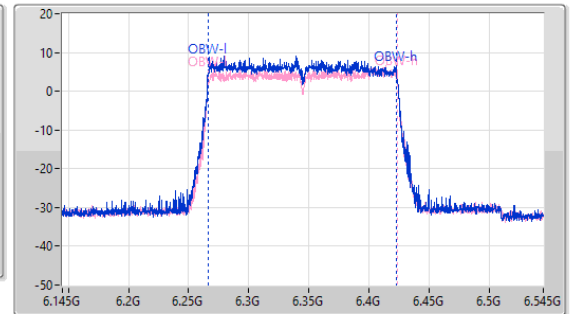
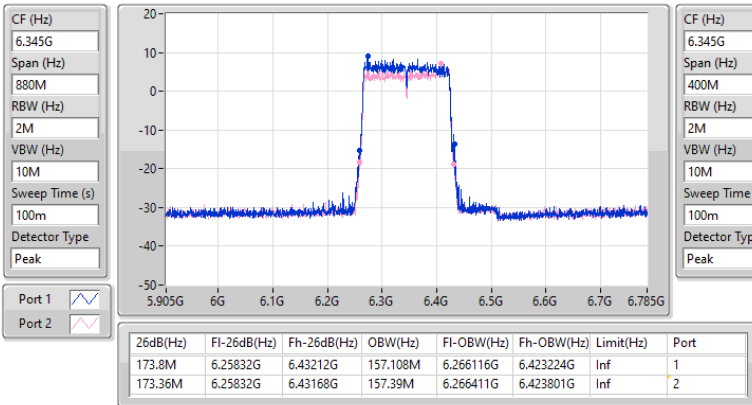


5.925-6.425GHz_802.11be EHT160-BF_Nss1,(MCS0)_2TX

EBW

6345MHz

15/02/2025

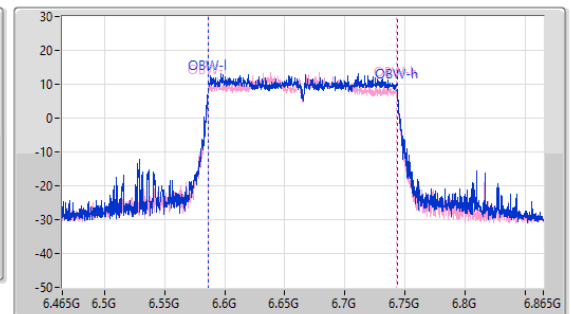
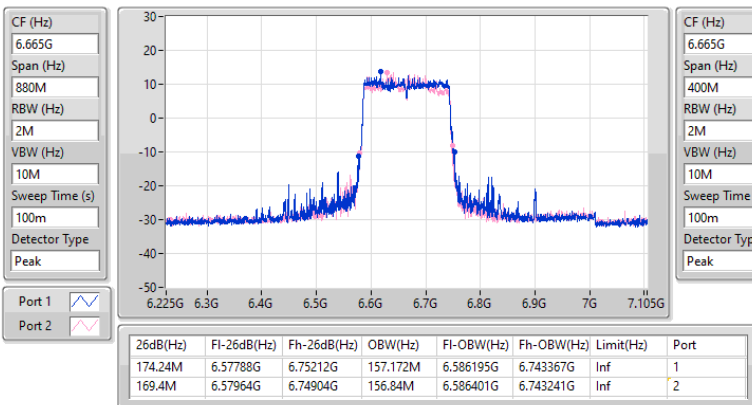


6.525-6.875GHz_802.11be EHT160-BF_Nss1,(MCS0)_2TX

EBW

6665MHz

15/02/2025

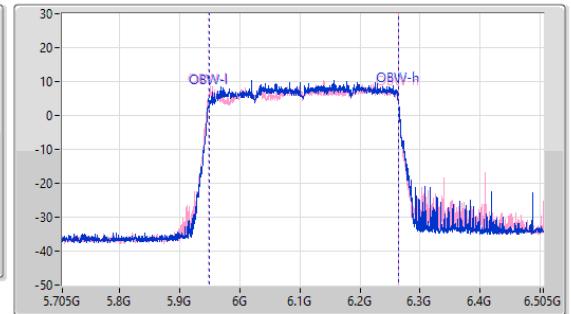
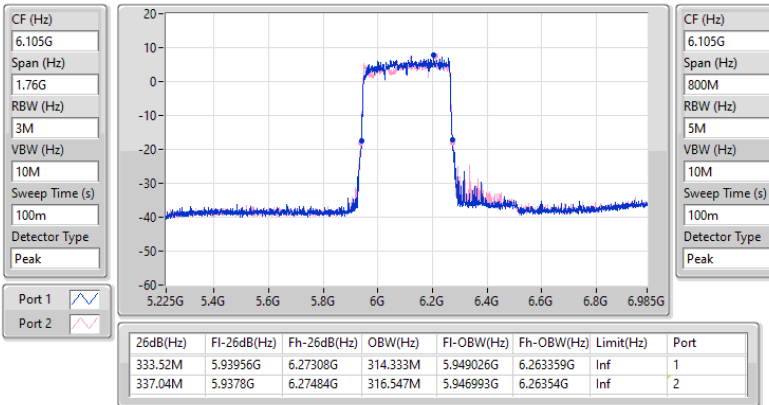


5.925-6.425GHz_802.11be EHT320-BF_Nss1,(MCS0)_2TX

EBW

6105MHz

15/02/2025

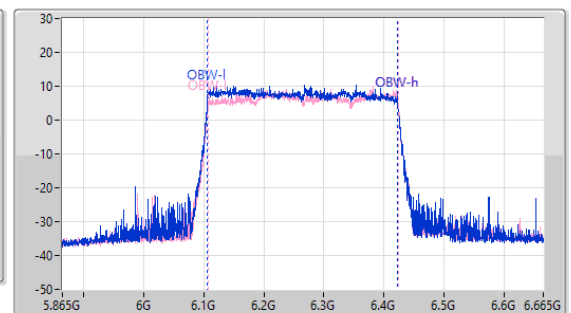
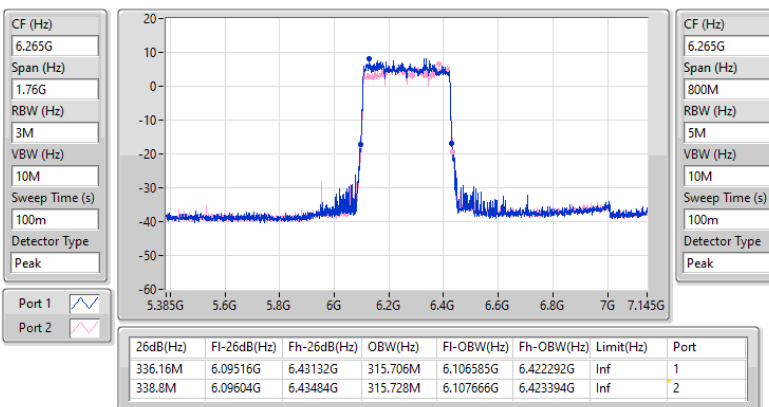


5.925-6.425GHz_802.11be EHT320-BF_Nss1,(MCS0)_2TX

EBW

6265MHz

15/02/2025





EBW_R4_Narrow Beam_BF mode (4TX)
(Variant Device / FCC ID: UDX-600216020)

Appendix B.4

Summary

Mode	Max-N dB	Max-OBW	ITU-Code	Min-N dB	Min-OBW
	(Hz)	(Hz)		(Hz)	(Hz)
5.925-6.425GHz	-	-	-	-	-
802.11be EHT20-BF_Nss1,(MCS0)_4TX	22.495M	19.091M	19M1D1D	21.175M	18.972M
802.11be EHT40-BF_Nss1,(MCS0)_4TX	44.99M	38.16M	38M2D1D	42.35M	37.956M
802.11be EHT80-BF_Nss1,(MCS0)_4TX	92.84M	78.7M	78M7D1D	81.84M	76.869M
802.11be EHT160-BF_Nss1,(MCS0)_4TX	175.12M	157.725M	158MD1D	168.96M	156.562M
802.11be EHT320-BF_Nss1,(MCS0)_4TX	338.8M	317.952M	318MD1D	334.4M	315.989M
6.525-6.875GHz	-	-	-	-	-
802.11be EHT20-BF_Nss1,(MCS0)_4TX	22.44M	19.129M	19M1D1D	20.955M	18.999M
802.11be EHT40-BF_Nss1,(MCS0)_4TX	44.44M	38.129M	38M1D1D	42.02M	37.81M
802.11be EHT80-BF_Nss1,(MCS0)_4TX	91.96M	77.942M	77M9D1D	86.9M	77.547M
802.11be EHT160-BF_Nss1,(MCS0)_4TX	172.92M	157.326M	157MD1D	168.52M	156.959M

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



EBW_R4_Narrow Beam_BF mode (4TX)
(Variant Device / FCC ID: UDX-600216020)

Appendix B.4

Result

Mode	Result	Limit	Port 1-N dB	Port 1-OBW	Port 2-N dB	Port 2-OBW	Port 3-N dB	Port 3-OBW	Port 4-N dB	Port 4-OBW
		(Hz)	(Hz)	(Hz)	(Hz)	(Hz)	(Hz)	(Hz)	(Hz)	(Hz)
802.11be EHT20-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5955MHz	Pass	Inf	21.175M	19.026M	22M	19.043M	22.22M	19.064M	22.055M	19.074M
6195MHz	Pass	Inf	21.395M	19.012M	22.275M	19.091M	21.835M	19.086M	21.945M	19.065M
6415MHz	Pass	Inf	21.175M	18.972M	22.055M	19.077M	22.495M	19.05M	22M	19.077M
6535MHz	Pass	Inf	20.955M	18.999M	22.22M	19.062M	22M	19.083M	22.22M	19.129M
6695MHz	Pass	Inf	21.01M	19.08M	22.11M	19.062M	22.44M	19.099M	22.22M	19.073M
6855MHz	Pass	Inf	21.615M	19.045M	22.165M	19.102M	21.89M	19.069M	22.33M	19.079M
802.11be EHT40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5965MHz	Pass	Inf	43.89M	37.963M	43.78M	38.16M	43.45M	38.05M	43.78M	38.066M
6205MHz	Pass	Inf	42.35M	37.956M	44.22M	38.081M	44.11M	38.089M	44.99M	38.091M
6405MHz	Pass	Inf	44.88M	38.039M	44.33M	38.055M	43.67M	38.076M	44.66M	38.116M
6565MHz	Pass	Inf	43.23M	38.129M	43.34M	38.066M	44M	38.096M	43.34M	38.088M
6685MHz	Pass	Inf	42.02M	38.007M	44.44M	38.045M	43.56M	38.086M	44.11M	38.043M
6845MHz	Pass	Inf	42.46M	37.81M	44.11M	38.045M	44.22M	38.113M	43.89M	38.129M
802.11be EHT80-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5985MHz	Pass	Inf	88.66M	77.836M	86.68M	77.026M	87.12M	78.7M	85.14M	78.175M
6225MHz	Pass	Inf	81.84M	77.706M	84.04M	77.406M	86.24M	78.331M	86.02M	77.417M
6385MHz	Pass	Inf	92.84M	78.347M	86.9M	76.869M	86.9M	78.218M	88.66M	77.531M
6625MHz	Pass	Inf	88.44M	77.547M	88M	77.905M	88.88M	77.732M	88.66M	77.83M
6705MHz	Pass	Inf	91.96M	77.752M	88.22M	77.79M	86.9M	77.942M	88M	77.825M
6785MHz	Pass	Inf	91.74M	77.899M	89.54M	77.879M	88M	77.931M	88.88M	77.872M
802.11be EHT160-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
6025MHz	Pass	Inf	168.96M	156.562M	171.6M	157.361M	171.16M	157.258M	172.04M	157.242M
6185MHz	Pass	Inf	168.96M	157.415M	173.36M	157.351M	173.36M	157.409M	172.92M	157.521M
6345MHz	Pass	Inf	168.96M	157.118M	172.92M	157.725M	172.92M	157.602M	175.12M	157.658M
6665MHz	Pass	Inf	168.52M	156.959M	172.92M	157.32M	172.04M	157.326M	172.92M	157.259M
802.11be EHT320-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
6105MHz	Pass	Inf	336.16M	316.411M	338.8M	316.893M	337.92M	316.624M	336.16M	316.475M
6265MHz	Pass	Inf	334.4M	315.989M	338.8M	317.244M	338.8M	316.848M	338.8M	317.952M

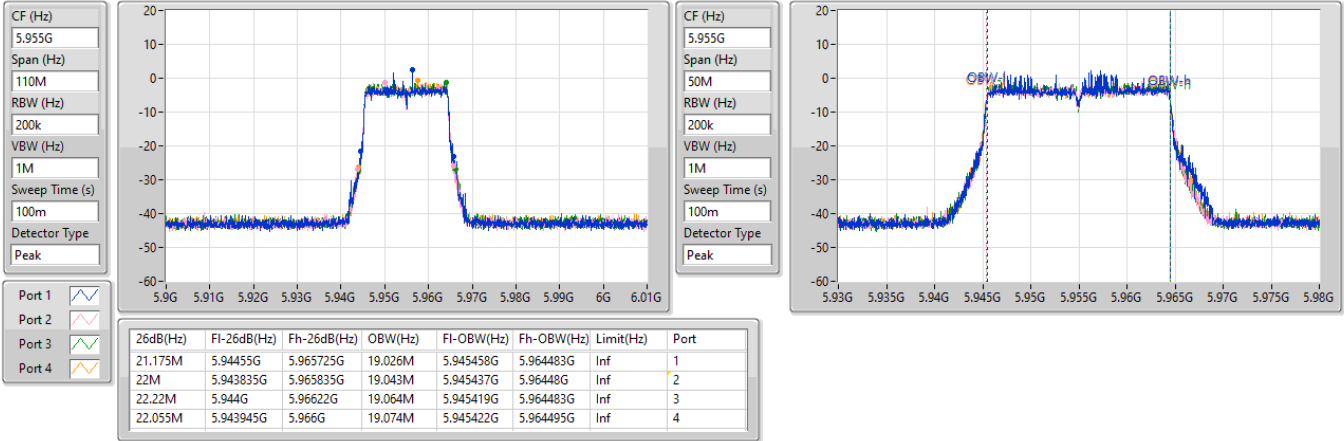
Port X-N dB = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band
Port X-OBW = Port X 99% occupied bandwidth

5.925-6.425GHz_802.11be EHT20-BF_Nss1,(MCS0)_4TX

EBW

5955MHz

17/02/2025

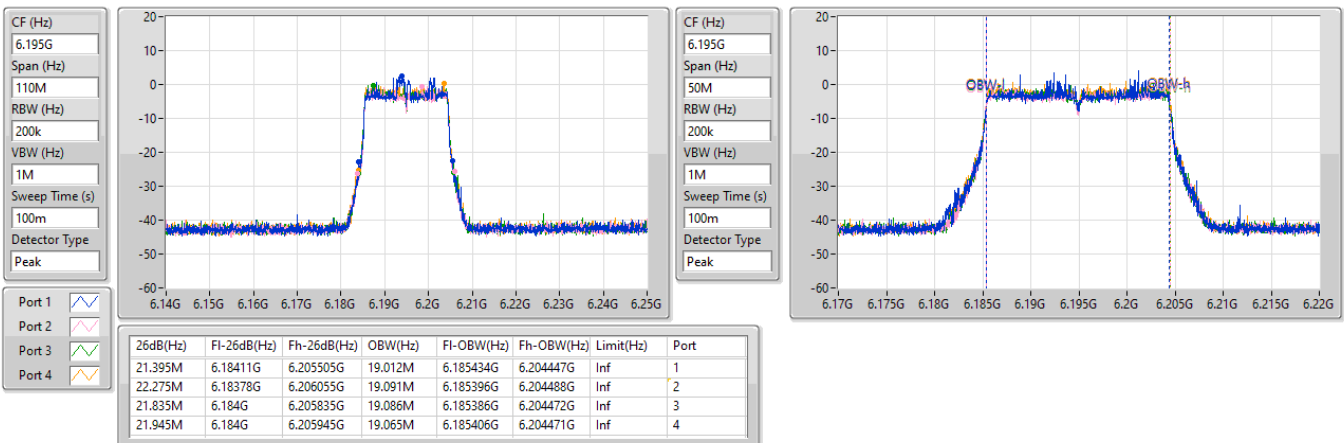


5.925-6.425GHz_802.11be EHT20-BF_Nss1,(MCS0)_4TX

EBW

6195MHz

17/02/2025

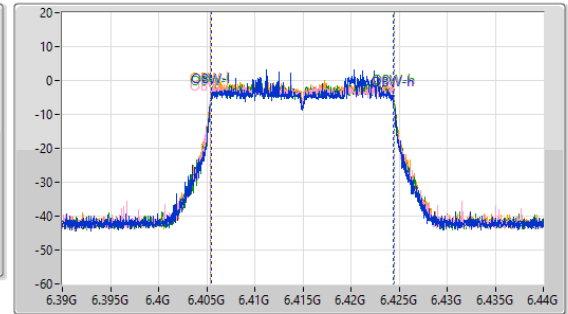
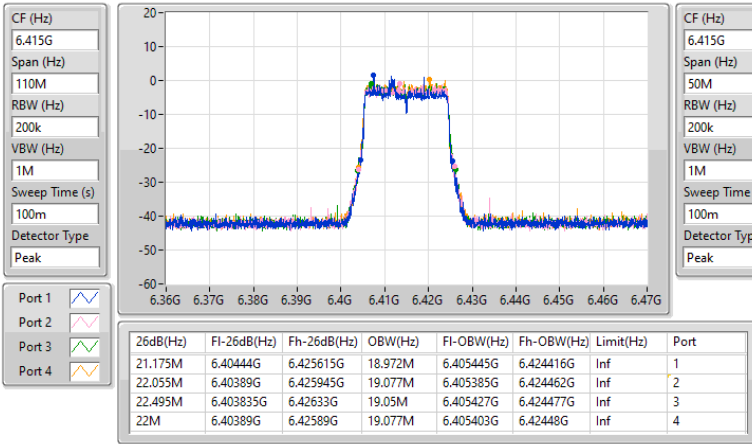


5.925-6.425GHz_802.11be EHT20-BF_Nss1,(MCS0)_4TX

EBW

6415MHz

17/02/2025

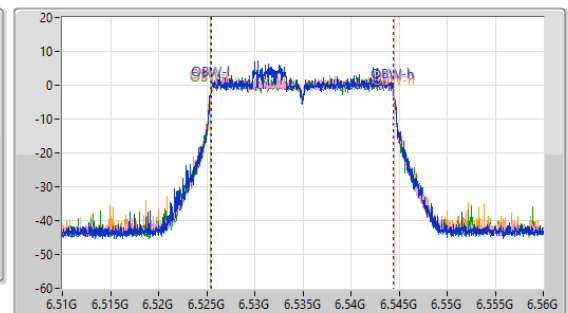
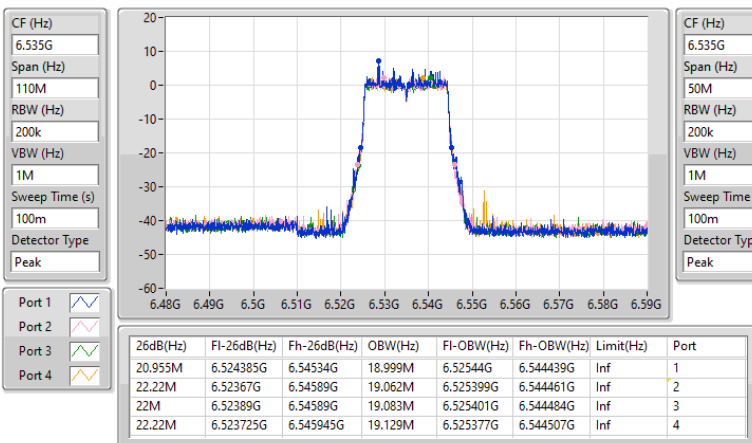


6.525-6.875GHz_802.11be EHT20-BF_Nss1,(MCS0)_4TX

EBW

6535MHz

17/02/2025

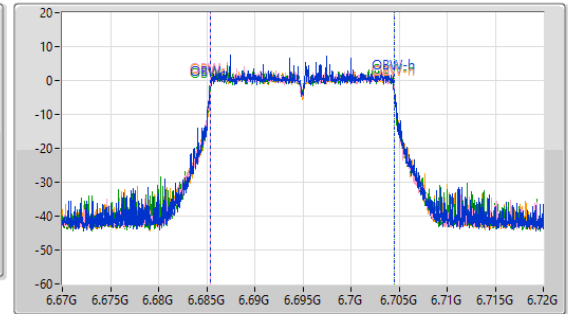
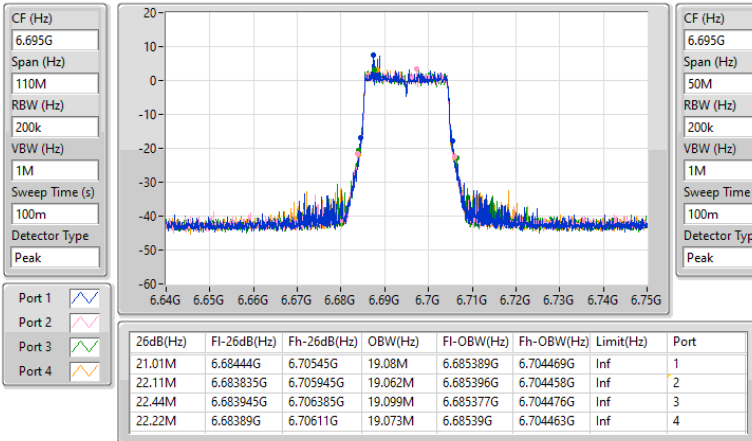


6.525-6.875GHz_802.11be EHT20-BF_Nss1,(MCS0)_4TX

EBW

6695MHz

17/02/2025

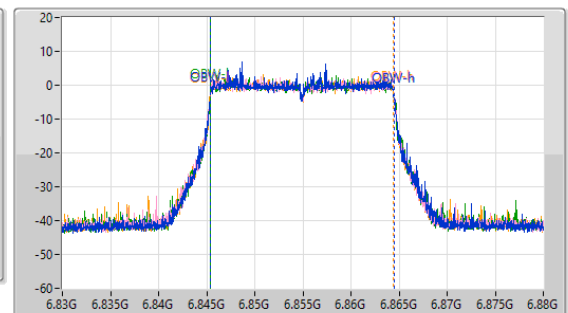
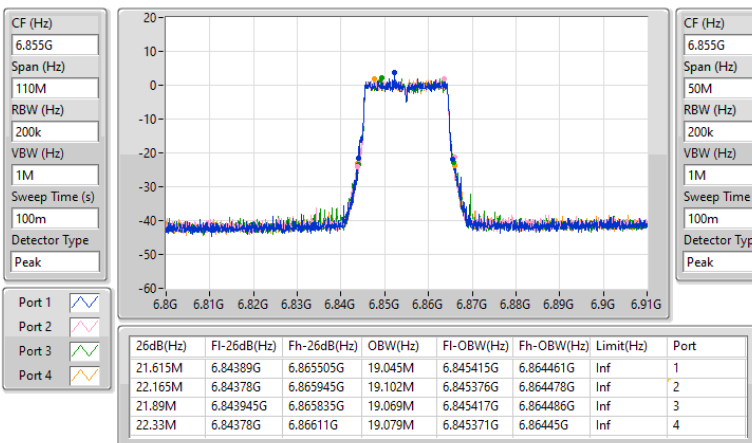


6.525-6.875GHz_802.11be EHT20-BF_Nss1,(MCS0)_4TX

EBW

6855MHz

17/02/2025

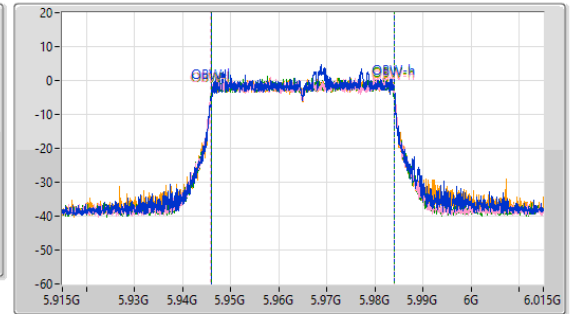
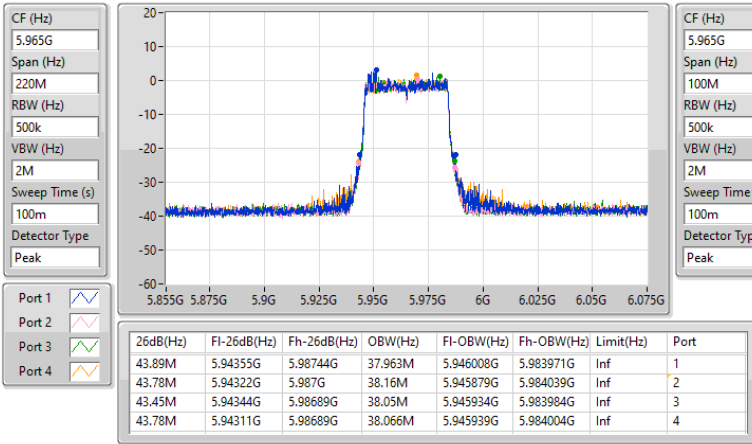


5.925-6.425GHz_802.11be EHT40-BF_Nss1,(MCS0)_4TX

EBW

5965MHz

17/02/2025

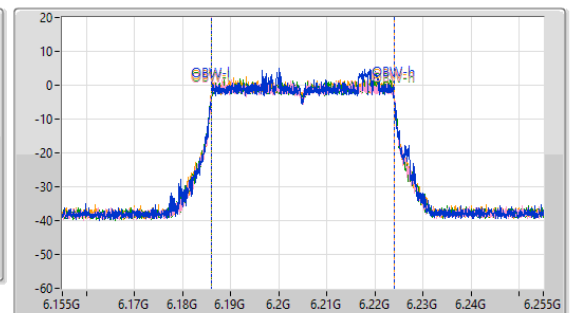
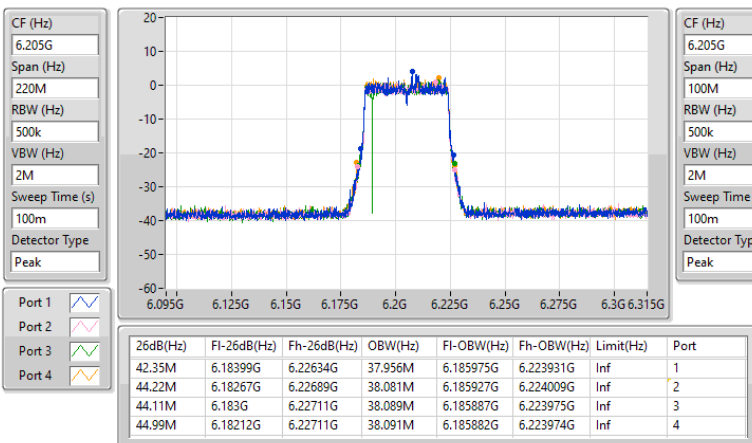


5.925-6.425GHz_802.11be EHT40-BF_Nss1,(MCS0)_4TX

EBW

6205MHz

17/02/2025

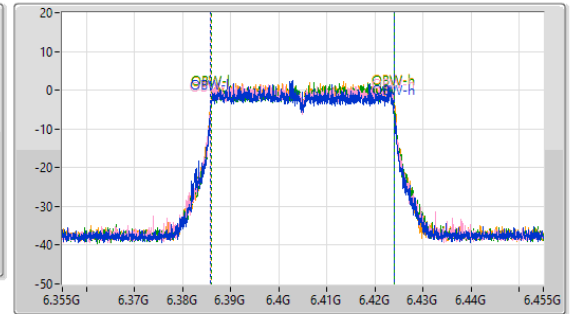
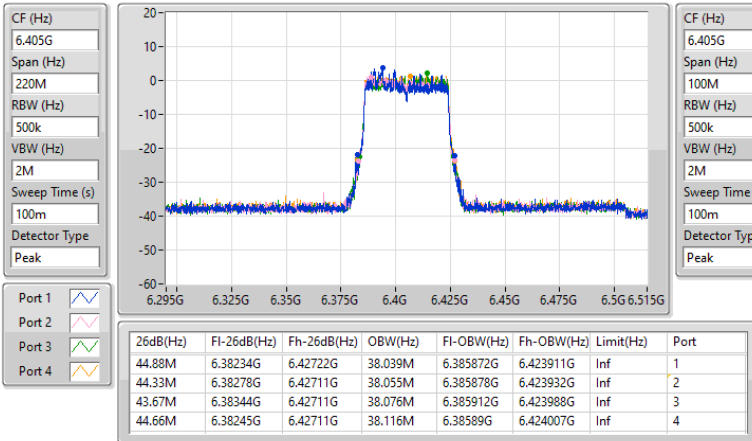


5.925-6.425GHz_802.11be EHT40-BF_Nss1,(MCS0)_4TX

EBW

6405MHz

17/02/2025

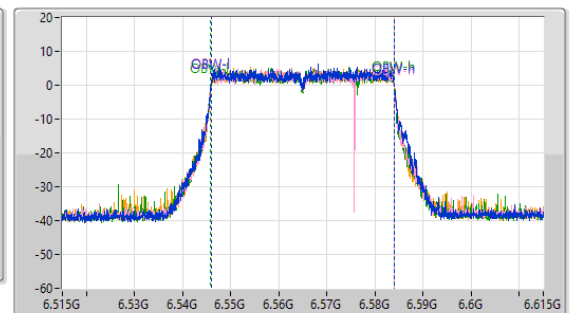
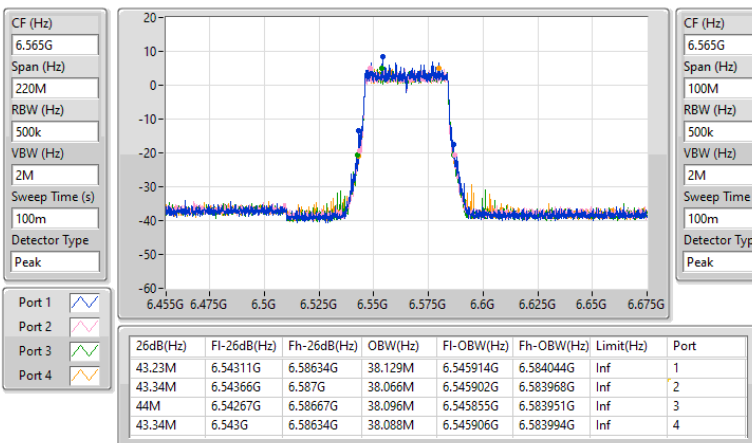


6.525-6.875GHz_802.11be EHT40-BF_Nss1,(MCS0)_4TX

EBW

6565MHz

17/02/2025

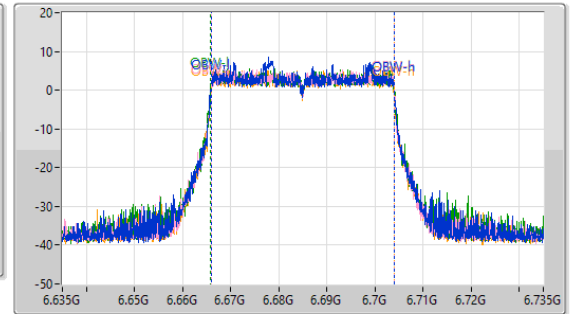
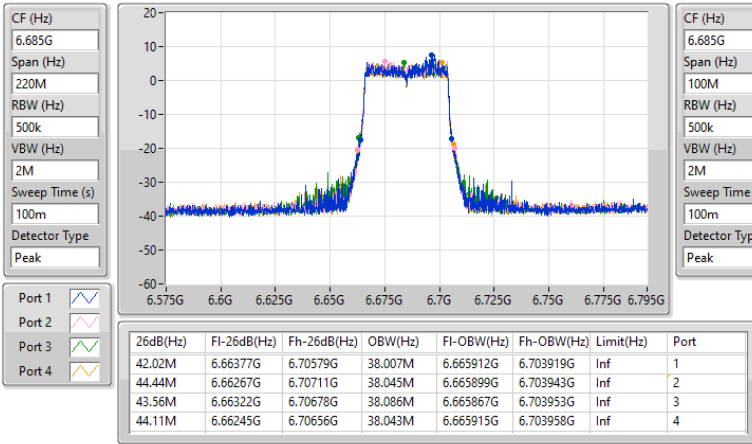


6.525-6.875GHz_802.11be EHT40-BF_Nss1,(MCS0)_4TX

EBW

6685MHz

17/02/2025

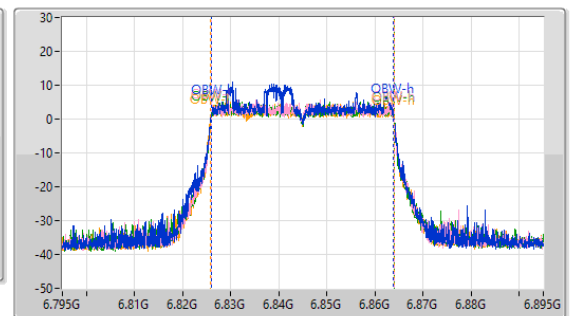
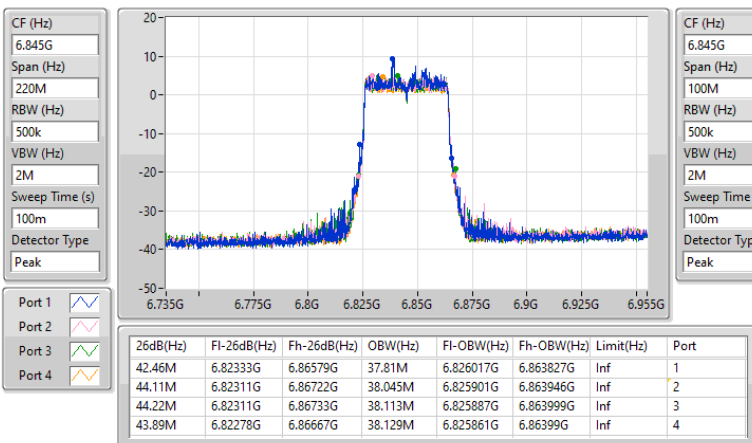


6.525-6.875GHz_802.11be EHT40-BF_Nss1,(MCS0)_4TX

EBW

6845MHz

17/02/2025

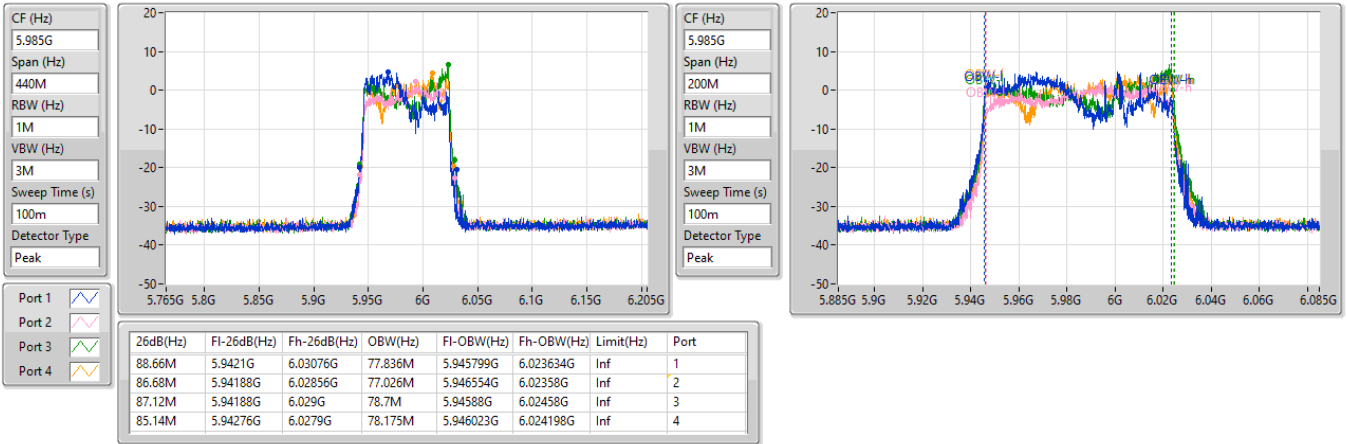


5.925-6.425GHz_802.11be EHT80-BF_Nss1,(MCS0)_4TX

EBW

5985MHz

17/02/2025

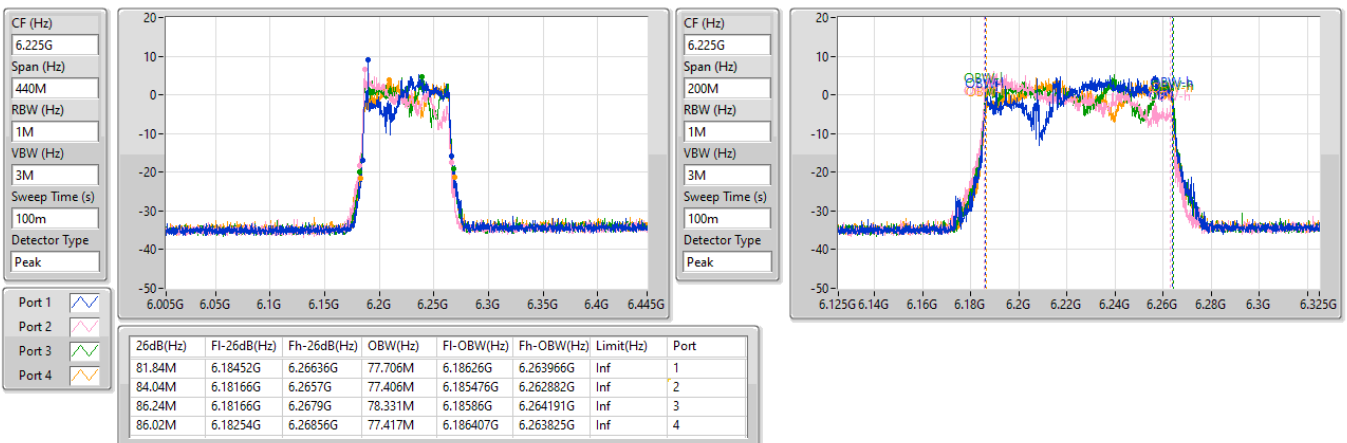


5.925-6.425GHz_802.11be EHT80-BF_Nss1,(MCS0)_4TX

EBW

6225MHz

17/02/2025

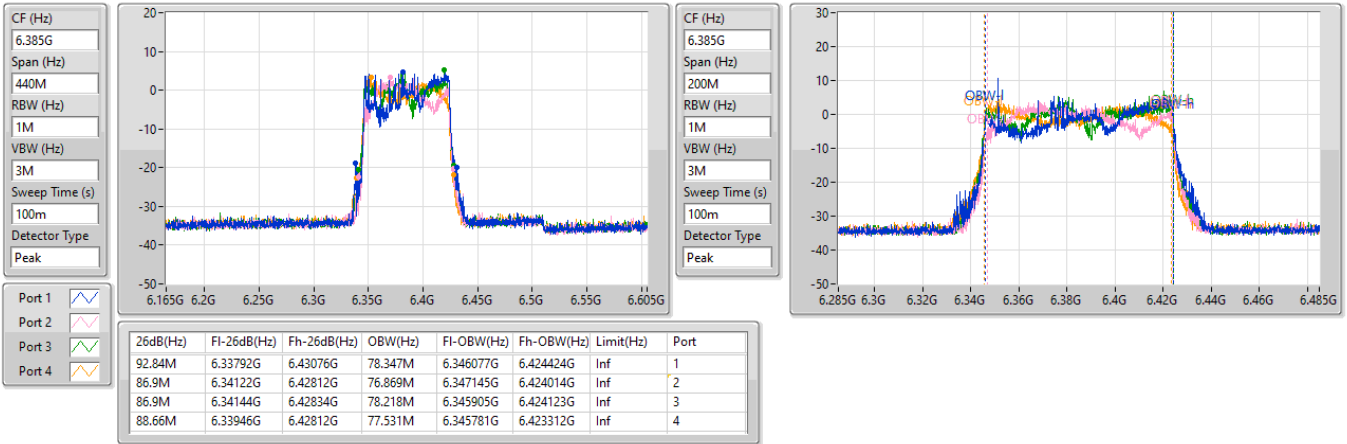


5.925-6.425GHz_802.11be EHT80-BF_Nss1,(MCS0)_4TX

EBW

6385MHz

17/02/2025

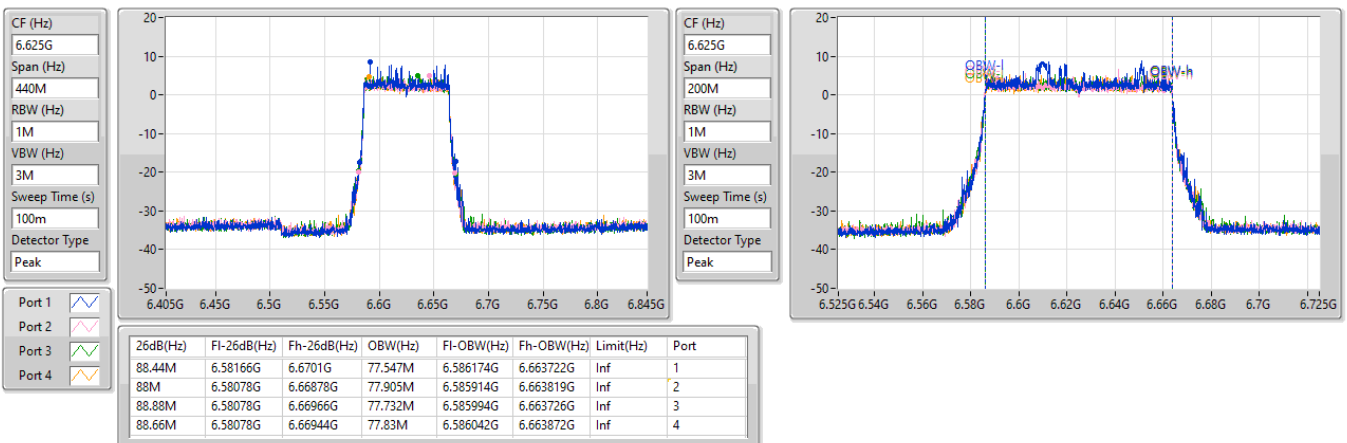


6.525-6.875GHz_802.11be EHT80-BF_Nss1,(MCS0)_4TX

EBW

6625MHz

17/02/2025

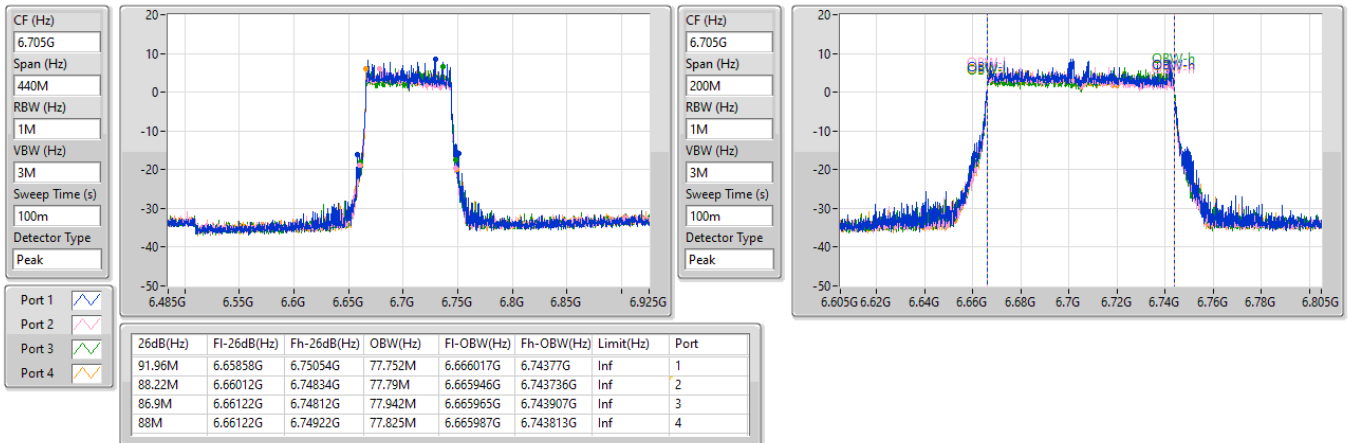


6.525-6.875GHz_802.11be EHT80-BF_Nss1,(MCS0)_4TX

EBW

6705MHz

17/02/2025

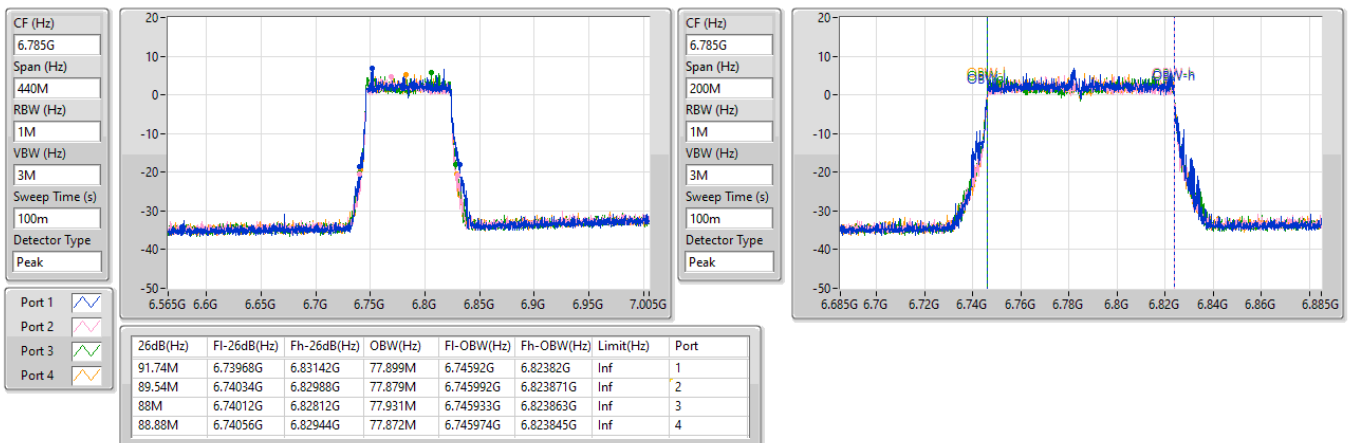


6.525-6.875GHz_802.11be EHT80-BF_Nss1,(MCS0)_4TX

EBW

6785MHz

17/02/2025

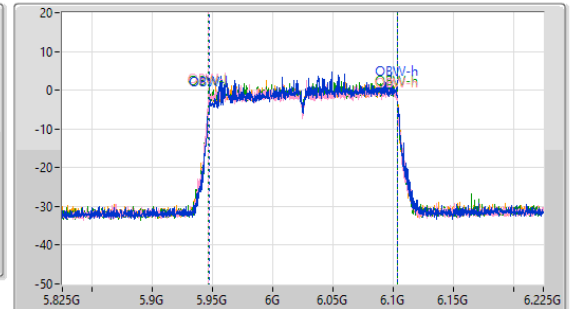
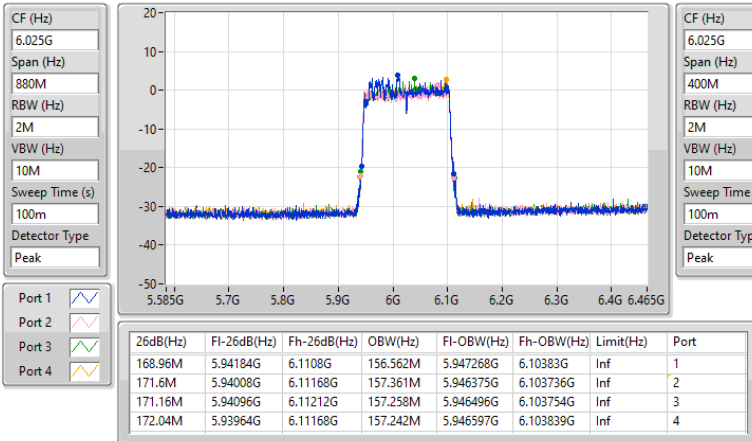


5.925-6.425GHz_802.11be EHT160-BF_Nss1,(MCS0)_4TX

EBW

6025MHz

17/02/2025

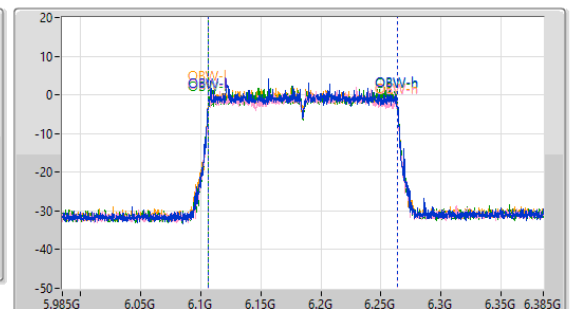
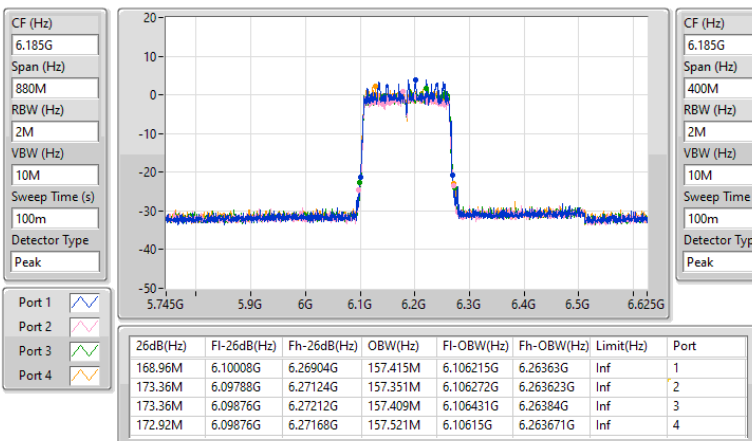


5.925-6.425GHz_802.11be EHT160-BF_Nss1,(MCS0)_4TX

EBW

6185MHz

17/02/2025

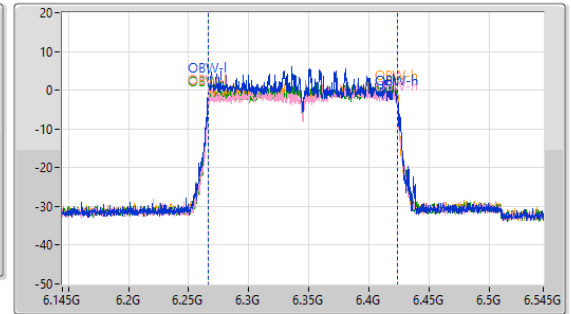
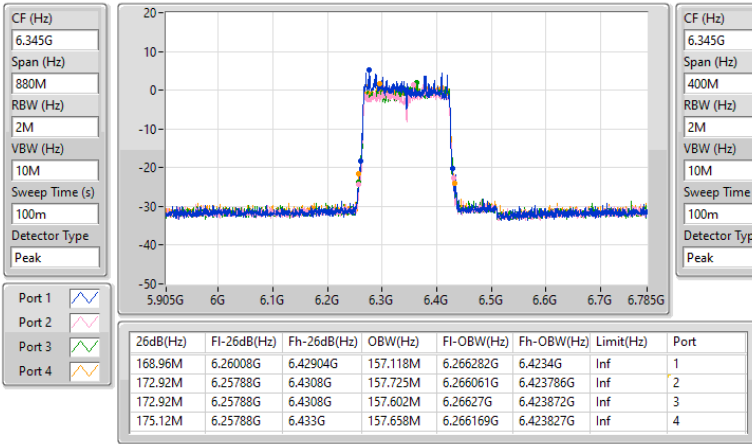


5.925-6.425GHz_802.11be EHT160-BF_Nss1,(MCS0)_4TX

EBW

6345MHz

17/02/2025

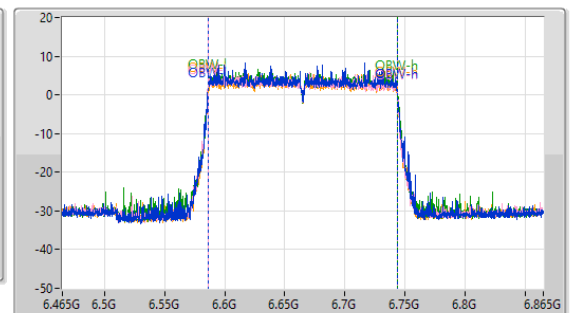
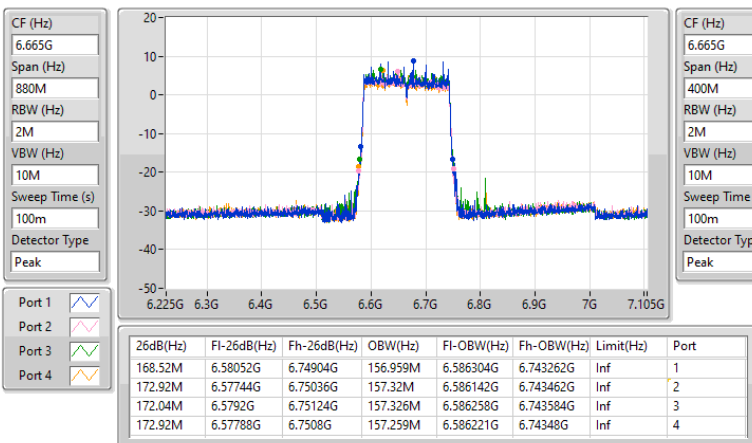


6.525-6.875GHz_802.11be EHT160-BF_Nss1,(MCS0)_4TX

EBW

6665MHz

17/02/2025

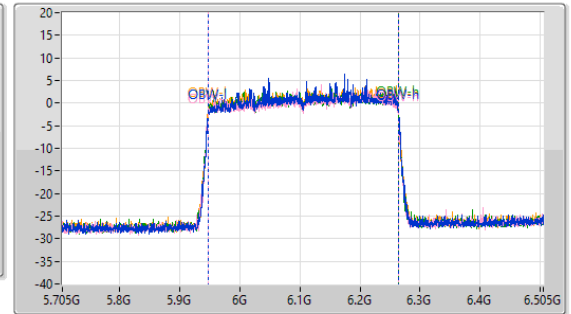
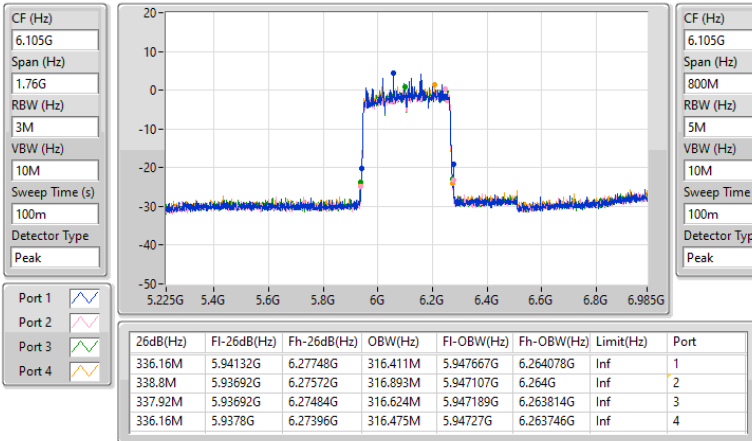


5.925-6.425GHz_802.11be EHT320-BF_Nss1,(MCS0)_4TX

EBW

6105MHz

17/02/2025

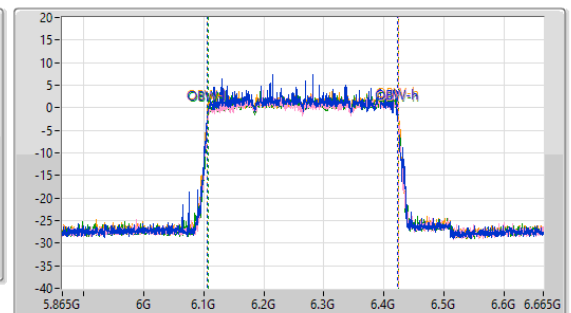
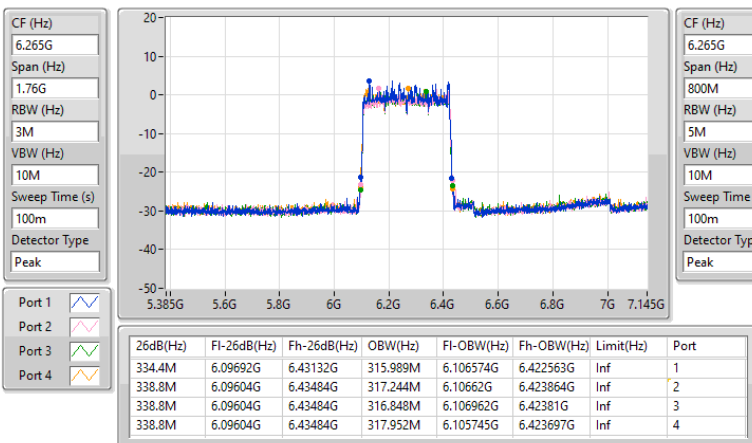


5.925-6.425GHz_802.11be EHT320-BF_Nss1,(MCS0)_4TX

EBW

6265MHz

17/02/2025





EBW_R4_Wide Beam_Non-BF mode
(Variant Device / FCC ID: UDX-600216020)

Appendix B.5

Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.925-6.425GHz	-	-	-	-	-
802.11be EHT20_Nss1,(MCS0)_1TX	24.365M	19.112M	19M1D1D	22.385M	19.04M
802.11be EHT20_Nss1,(MCS0)_2TX	22.44M	19.032M	19M0D1D	21.78M	19.004M
802.11be EHT20_Nss1,(MCS0)_4TX	22.77M	19.053M	19M1D1D	21.78M	19M
802.11be EHT40_Nss1,(MCS0)_1TX	43.56M	38.06M	38M1D1D	42.02M	37.949M
802.11be EHT40_Nss1,(MCS0)_2TX	43.56M	38.054M	38M1D1D	41.58M	37.944M
802.11be EHT40_Nss1,(MCS0)_4TX	43.67M	38.028M	38M0D1D	41.8M	37.921M
802.11be EHT80_Nss1,(MCS0)_1TX	88M	77.686M	77M7D1D	85.8M	77.642M
802.11be EHT80_Nss1,(MCS0)_2TX	89.76M	77.823M	77M8D1D	84.26M	77.543M
802.11be EHT80_Nss1,(MCS0)_4TX	89.32M	77.719M	77M7D1D	83.82M	77.527M
802.11be EHT160_Nss1,(MCS0)_1TX	225.72M	157.195M	157MD1D	168.96M	156.905M
802.11be EHT160_Nss1,(MCS0)_2TX	172.04M	156.999M	157MD1D	166.76M	156.573M
802.11be EHT160_Nss1,(MCS0)_4TX	173.36M	157.202M	157MD1D	166.76M	156.723M
802.11be EHT320_Nss1,(MCS0)_1TX	463.76M	315.808M	316MD1D	337.92M	315.701M
802.11be EHT320_Nss1,(MCS0)_2TX	338.8M	315.514M	316MD1D	327.36M	314.982M
802.11be EHT320_Nss1,(MCS0)_4TX	335.28M	315.988M	316MD1D	327.36M	315.078M
6.525-6.875GHz	-	-	-	-	-
802.11be EHT20_Nss1,(MCS0)_1TX	23.155M	19.035M	19M0D1D	21.835M	19.009M
802.11be EHT20_Nss1,(MCS0)_2TX	22.495M	19.056M	19M1D1D	22M	19.001M
802.11be EHT20_Nss1,(MCS0)_4TX	22.99M	19.046M	19M0D1D	21.78M	18.974M
802.11be EHT40_Nss1,(MCS0)_1TX	43.56M	38.028M	38M0D1D	42.57M	37.96M
802.11be EHT40_Nss1,(MCS0)_2TX	43.34M	38.029M	38M0D1D	41.69M	37.91M
802.11be EHT40_Nss1,(MCS0)_4TX	44.55M	38.041M	38M0D1D	41.91M	37.881M
802.11be EHT80_Nss1,(MCS0)_1TX	87.78M	77.728M	77M7D1D	86.02M	77.524M
802.11be EHT80_Nss1,(MCS0)_2TX	87.78M	77.718M	77M7D1D	86.02M	77.606M
802.11be EHT80_Nss1,(MCS0)_4TX	90.2M	77.662M	77M7D1D	84.48M	77.528M
802.11be EHT160_Nss1,(MCS0)_1TX	166.32M	156.836M	157MD1D	166.32M	156.836M
802.11be EHT160_Nss1,(MCS0)_2TX	171.16M	156.919M	157MD1D	170.28M	156.749M
802.11be EHT160_Nss1,(MCS0)_4TX	172.04M	157.256M	157MD1D	168.08M	156.618M

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



EBW_R4_Wide Beam_Non-BF mode
(Variant Device / FCC ID: UDX-600216020)

Appendix B.5

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)
802.11be EHT20_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-	-	-	-
5955MHz	Pass	Inf	24.365M	19.112M						
6195MHz	Pass	Inf	22.385M	19.04M						
6415MHz	Pass	Inf	22.385M	19.042M						
6535MHz	Pass	Inf	21.835M	19.035M						
6695MHz	Pass	Inf	21.89M	19.009M						
6855MHz	Pass	Inf	23.155M	19.032M						
802.11be EHT40_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-	-	-	-
5965MHz	Pass	Inf	43.56M	38.06M						
6205MHz	Pass	Inf	42.02M	38.046M						
6405MHz	Pass	Inf	42.24M	37.949M						
6565MHz	Pass	Inf	43.56M	37.96M						
6685MHz	Pass	Inf	43.23M	38.028M						
6845MHz	Pass	Inf	42.57M	37.962M						
802.11be EHT80_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-	-	-	-
5985MHz	Pass	Inf	88M	77.642M						
6225MHz	Pass	Inf	87.12M	77.686M						
6385MHz	Pass	Inf	85.8M	77.653M						
6625MHz	Pass	Inf	87.78M	77.524M						
6705MHz	Pass	Inf	86.24M	77.527M						
6785MHz	Pass	Inf	86.02M	77.728M						
802.11be EHT160_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-	-	-	-
6025MHz	Pass	Inf	225.72M	157.184M						
6185MHz	Pass	Inf	168.96M	156.905M						
6345MHz	Pass	Inf	171.6M	157.195M						
6665MHz	Pass	Inf	166.32M	156.836M						
802.11be EHT320_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-	-	-	-
6105MHz	Pass	Inf	463.76M	315.808M						
6265MHz	Pass	Inf	337.92M	315.701M						
802.11be EHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-
5955MHz	Pass	Inf	22.44M	19.032M	21.835M	19.013M				
6195MHz	Pass	Inf	21.78M	19.012M	22.44M	19.004M				
6415MHz	Pass	Inf	21.945M	19.021M	22.165M	19.031M				
6535MHz	Pass	Inf	22M	19.029M	22.275M	19.017M				
6695MHz	Pass	Inf	22.275M	19.056M	22.275M	19.017M				
6855MHz	Pass	Inf	22.495M	19.001M	22.385M	19.043M				
802.11be EHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-
5965MHz	Pass	Inf	41.58M	38.009M	41.8M	37.986M				
6205MHz	Pass	Inf	43.23M	38.054M	41.8M	38.046M				
6405MHz	Pass	Inf	42.9M	37.944M	43.56M	38.001M				
6565MHz	Pass	Inf	43.34M	38.003M	42.13M	38.029M				
6685MHz	Pass	Inf	42.57M	38.025M	41.69M	37.931M				
6845MHz	Pass	Inf	42.79M	37.957M	43.23M	37.91M				
802.11be EHT80_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-
5985MHz	Pass	Inf	88.66M	77.795M	84.26M	77.823M				
6225MHz	Pass	Inf	88.66M	77.73M	88.66M	77.581M				
6385MHz	Pass	Inf	89.76M	77.619M	89.32M	77.543M				
6625MHz	Pass	Inf	86.24M	77.62M	86.02M	77.718M				
6705MHz	Pass	Inf	86.68M	77.655M	87.78M	77.657M				
6785MHz	Pass	Inf	87.78M	77.712M	87.78M	77.606M				
802.11be EHT160_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-
6025MHz	Pass	Inf	168.52M	156.812M	169.84M	156.666M				
6185MHz	Pass	Inf	171.6M	156.658M	166.76M	156.573M				
6345MHz	Pass	Inf	167.2M	156.999M	172.04M	156.578M				
6665MHz	Pass	Inf	171.16M	156.749M	170.28M	156.919M				



EBW_R4_Wide Beam_Non-BF mode
(Variant Device / FCC ID: UDX-600216020)

Appendix B.5

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)
802.11be EHT320_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-
6105MHz	Pass	Inf	330.88M	315.054M	338.8M	314.982M				
6265MHz	Pass	Inf	337.92M	315.514M	327.36M	315.454M				
6585MHz										
802.11be EHT20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5955MHz	Pass	Inf	22.385M	19.008M	21.89M	19.024M	22.77M	19M	22.605M	19.041M
6195MHz	Pass	Inf	22.44M	19.021M	22.77M	19.034M	21.945M	19.016M	22.165M	19.053M
6415MHz	Pass	Inf	22.11M	19.003M	21.89M	19.049M	22.275M	19.002M	21.78M	19.032M
6535MHz	Pass	Inf	22M	19.016M	22.33M	19.028M	21.835M	19.023M	22.825M	19.006M
6695MHz	Pass	Inf	22.605M	18.996M	22.165M	19.038M	21.78M	18.974M	22.99M	19.031M
6855MHz	Pass	Inf	22M	19.029M	21.835M	19.022M	22.99M	19.031M	22.33M	19.046M
802.11be EHT40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5965MHz	Pass	Inf	42.57M	38.022M	43.01M	37.949M	42.24M	37.941M	41.8M	37.946M
6205MHz	Pass	Inf	42.57M	37.942M	43.45M	38.008M	43.56M	37.921M	43.01M	37.957M
6405MHz	Pass	Inf	42.79M	37.965M	42.24M	37.944M	43.67M	38.028M	43.45M	37.93M
6565MHz	Pass	Inf	43.34M	37.907M	41.91M	37.957M	43.56M	37.961M	42.02M	37.881M
6685MHz	Pass	Inf	44.55M	37.947M	43.34M	38.041M	43.34M	37.964M	43.01M	37.929M
6845MHz	Pass	Inf	42.13M	37.976M	44.22M	37.886M	42.46M	37.969M	43.01M	37.974M
802.11be EHT80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5985MHz	Pass	Inf	83.82M	77.527M	86.24M	77.629M	86.46M	77.635M	88.66M	77.673M
6225MHz	Pass	Inf	85.36M	77.602M	87.78M	77.529M	87.56M	77.715M	87.12M	77.648M
6385MHz	Pass	Inf	86.46M	77.672M	89.32M	77.627M	85.8M	77.719M	86.9M	77.586M
6625MHz	Pass	Inf	85.58M	77.633M	90.2M	77.65M	88.66M	77.66M	84.92M	77.554M
6705MHz	Pass	Inf	88M	77.595M	87.34M	77.561M	84.48M	77.654M	86.68M	77.528M
6785MHz	Pass	Inf	86.68M	77.653M	89.32M	77.662M	86.9M	77.626M	86.9M	77.586M
802.11be EHT160_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
6025MHz	Pass	Inf	173.36M	156.751M	166.76M	156.836M	169.84M	156.805M	169.4M	156.753M
6185MHz	Pass	Inf	169.84M	156.805M	170.72M	156.968M	171.16M	156.838M	169.4M	156.723M
6345MHz	Pass	Inf	168.08M	156.886M	167.64M	156.98M	170.28M	157.202M	168.52M	156.836M
6665MHz	Pass	Inf	172.04M	157.256M	169.84M	156.952M	168.08M	156.761M	172.04M	156.618M
802.11be EHT320_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
6105MHz	Pass	Inf	330.88M	315.078M	329.12M	315.352M	327.36M	315.149M	332.64M	315.345M
6265MHz	Pass	Inf	332.64M	315.109M	333.52M	315.458M	335.28M	315.988M	332.64M	315.783M

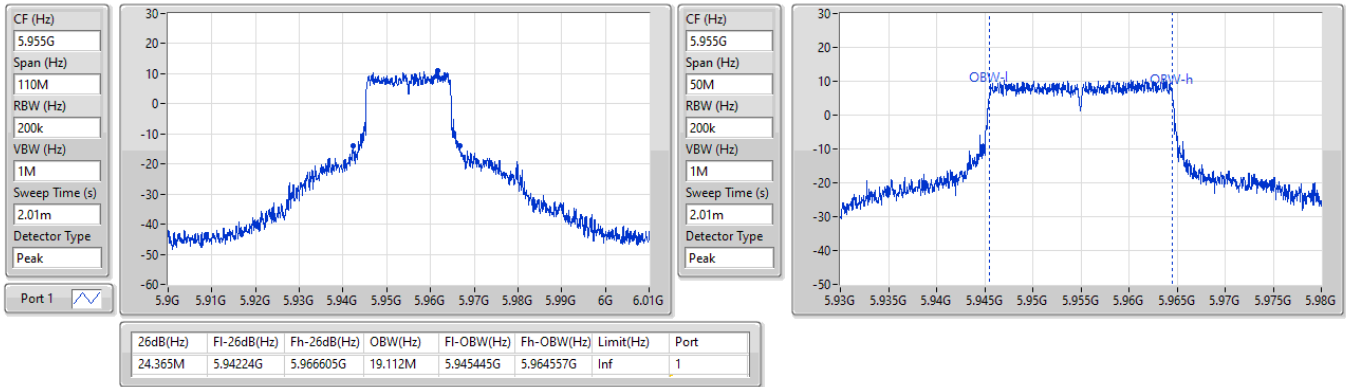
Port X-N dB = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band
Port X-OBW = Port X 99% occupied bandwidth

5.925-6.425GHz_802.11be EHT20_Nss1,(MCS0)_1TX

EBW

5955MHz

15/02/2025

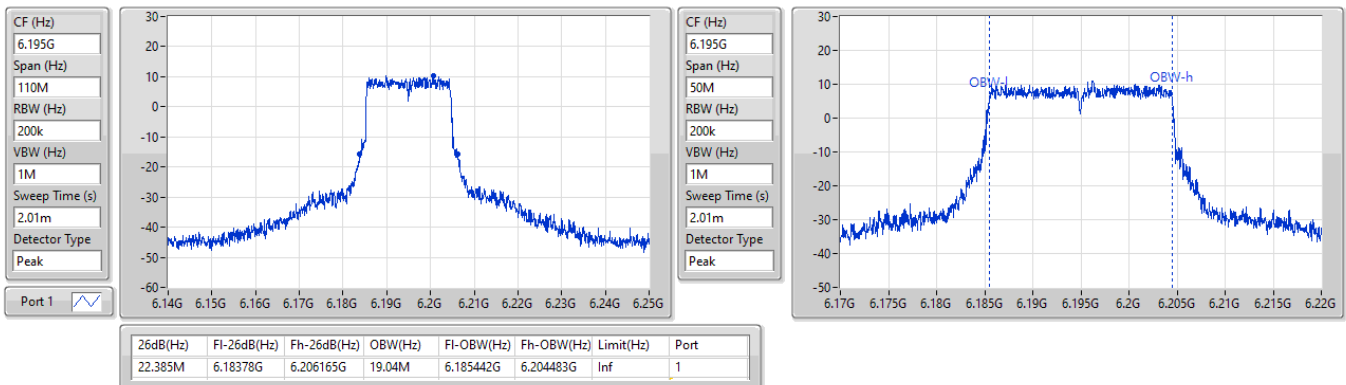


5.925-6.425GHz_802.11be EHT20_Nss1,(MCS0)_1TX

EBW

6195MHz

15/02/2025

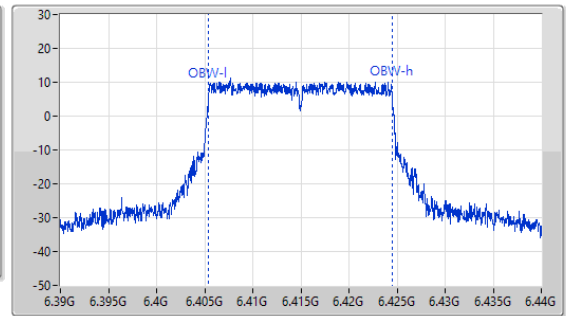
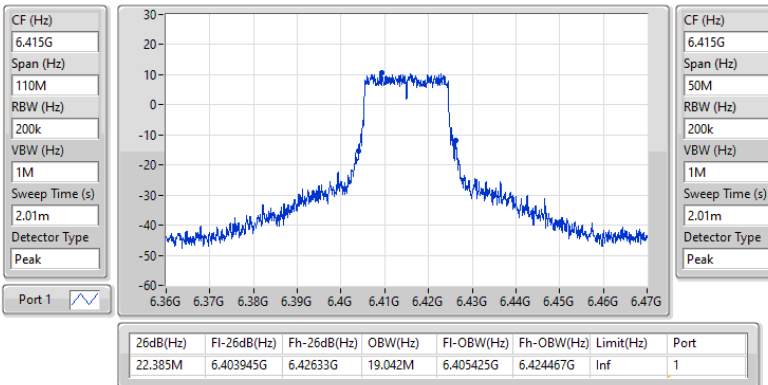


5.925-6.425GHz_802.11be EHT20_Nss1,(MCS0)_1TX

EBW

6415MHz

15/02/2025

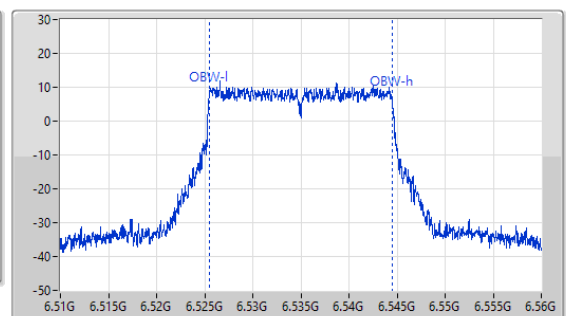
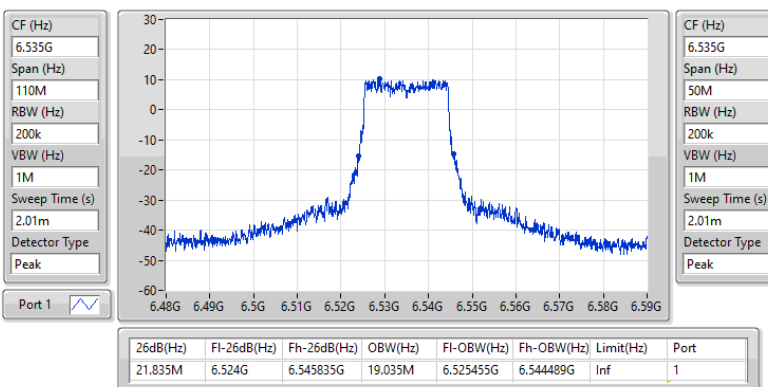


6.525-6.875GHz_802.11be EHT20_Nss1,(MCS0)_1TX

EBW

6535MHz

15/02/2025

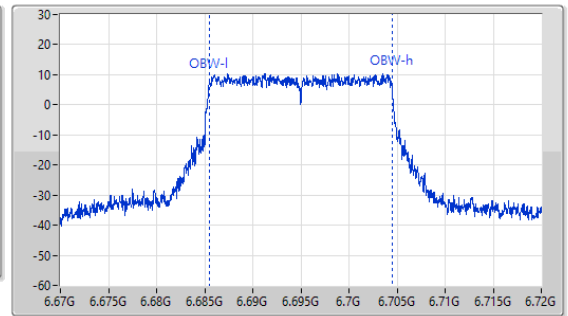
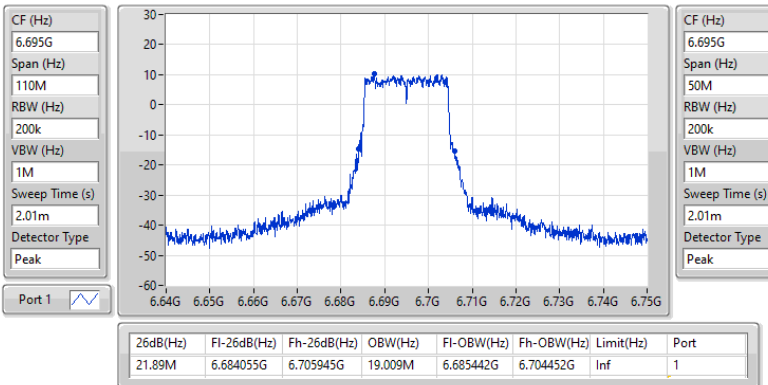


6.525-6.875GHz_802.11be EHT20_Nss1,(MCS0)_1TX

EBW

6695MHz

15/02/2025

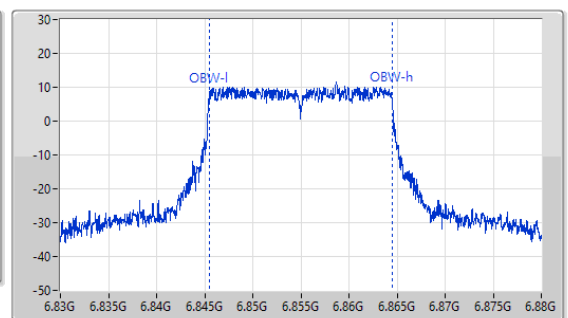
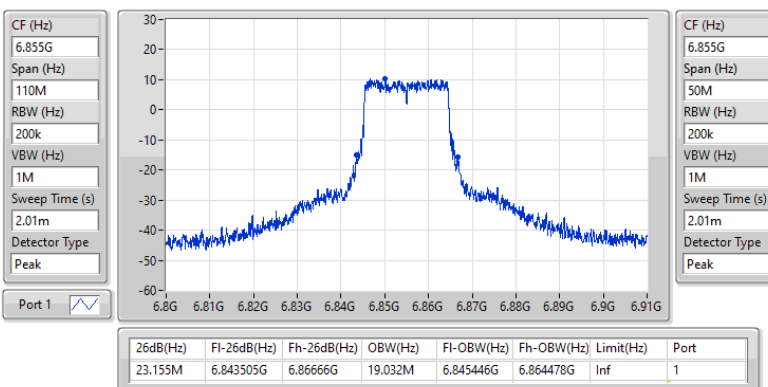


6.525-6.875GHz_802.11be EHT20_Nss1,(MCS0)_1TX

EBW

6855MHz

15/02/2025

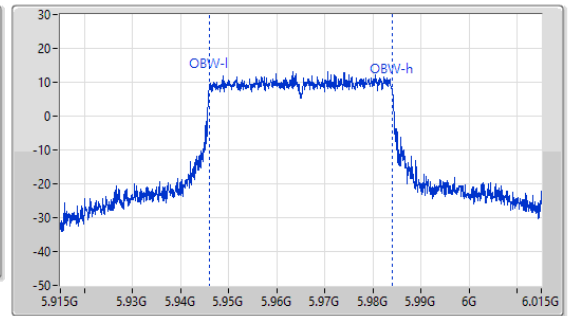
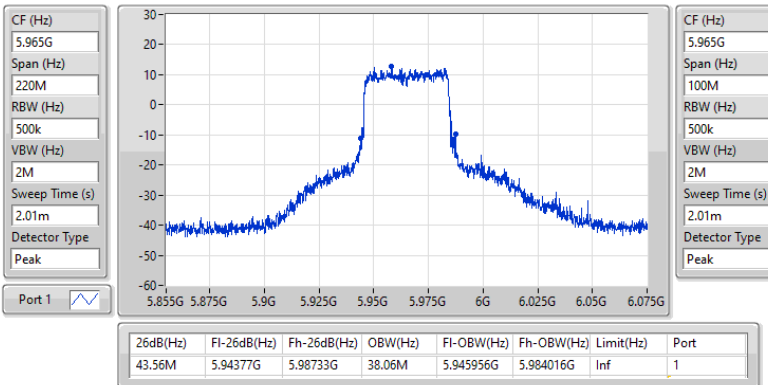


5.925-6.425GHz_802.11be EHT40_Nss1,(MCS0)_1TX

EBW

5965MHz

15/02/2025

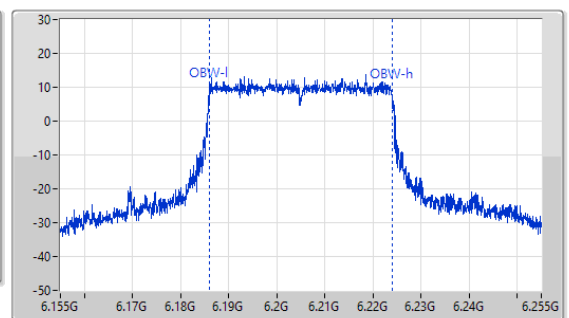
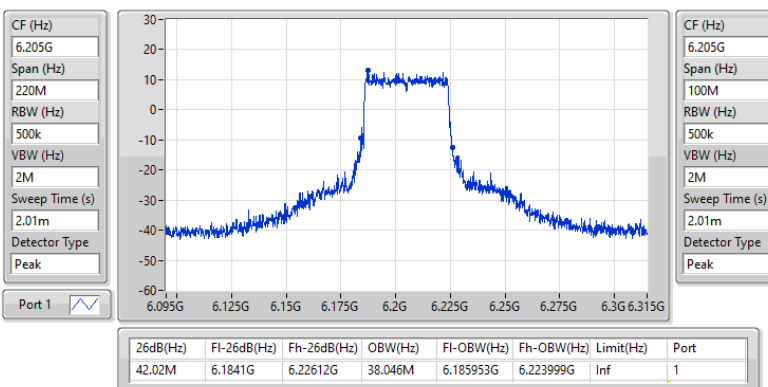


5.925-6.425GHz_802.11be EHT40_Nss1,(MCS0)_1TX

EBW

6205MHz

15/02/2025

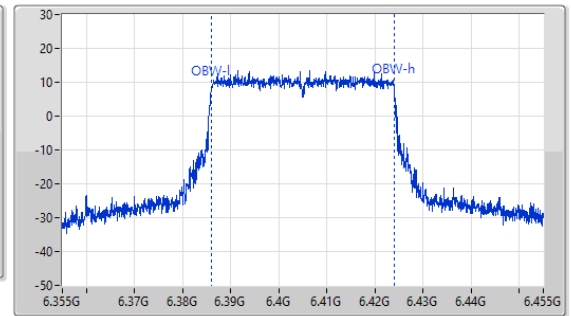
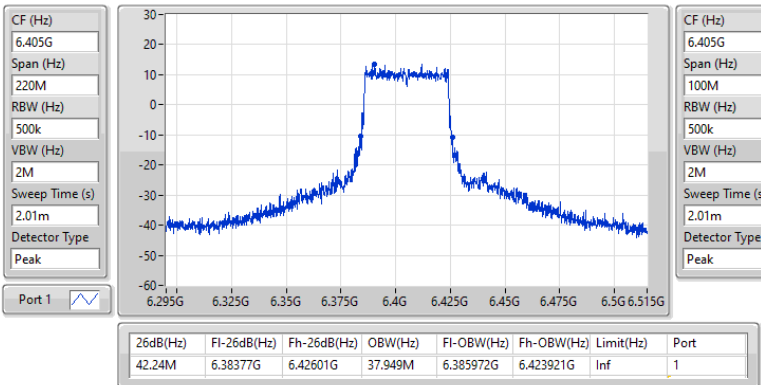


5.925-6.425GHz_802.11be EHT40_Nss1,(MCS0)_1TX

EBW

6405MHz

15/02/2025

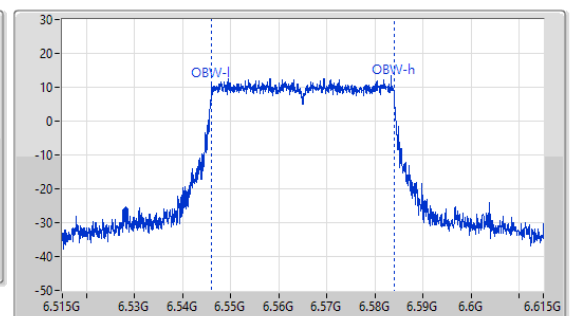
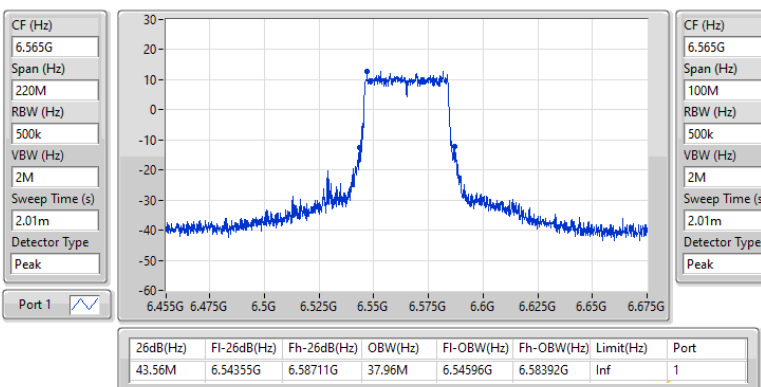


6.525-6.875GHz_802.11be EHT40_Nss1,(MCS0)_1TX

EBW

6565MHz

15/02/2025

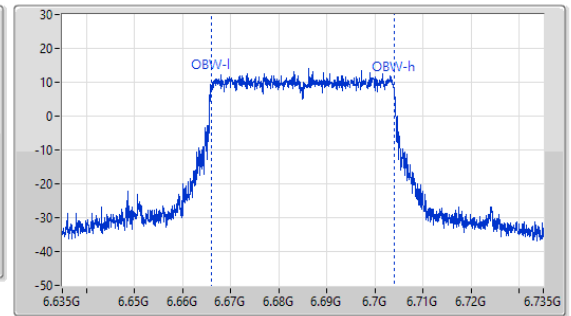
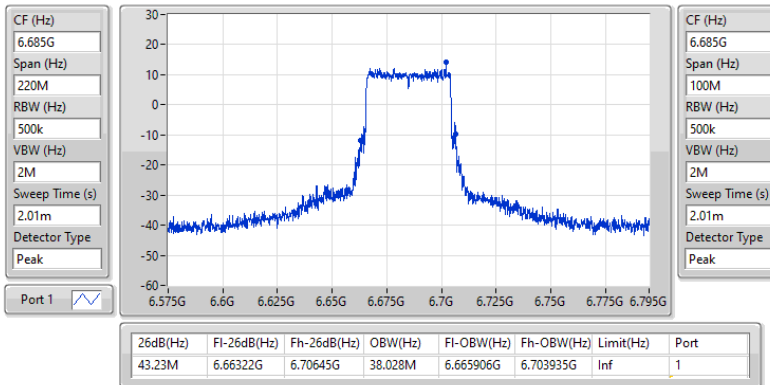


6.525-6.875GHz_802.11be EHT40_Nss1,(MCS0)_1TX

EBW

6685MHz

15/02/2025

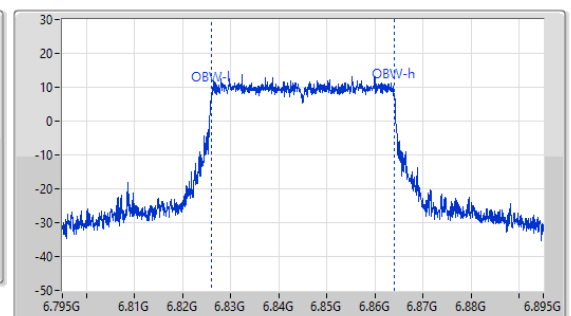
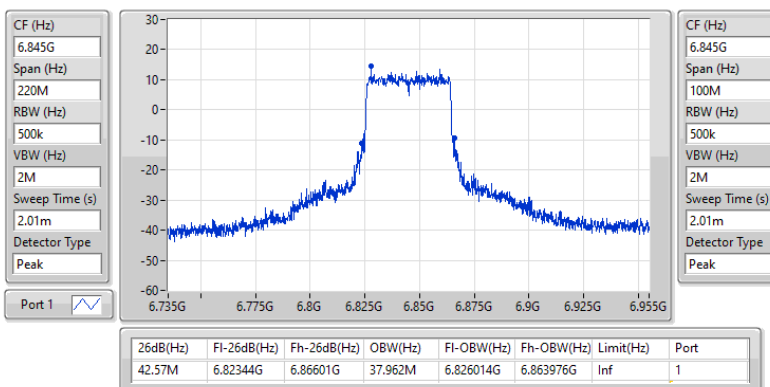


6.525-6.875GHz_802.11be EHT40_Nss1,(MCS0)_1TX

EBW

6845MHz

15/02/2025

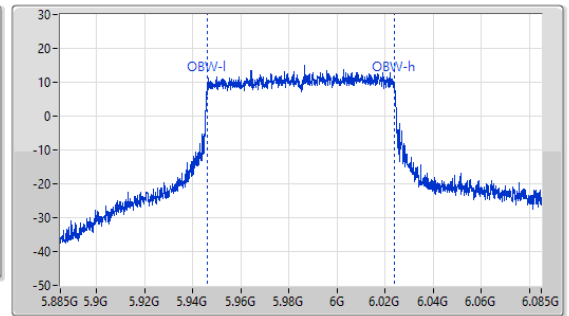
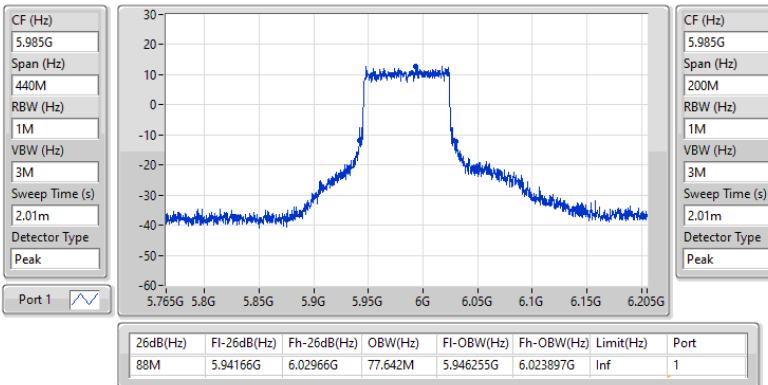


5.925-6.425GHz_802.11be EHT80_Nss1,(MCS0)_1TX

EBW

5985MHz

15/02/2025

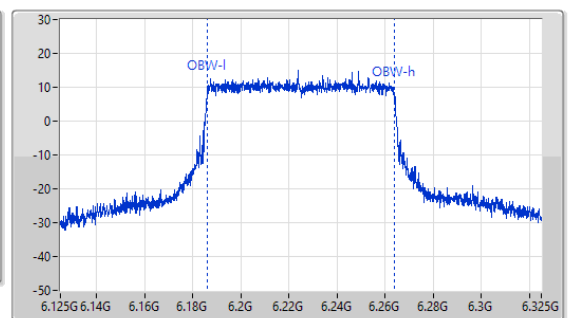
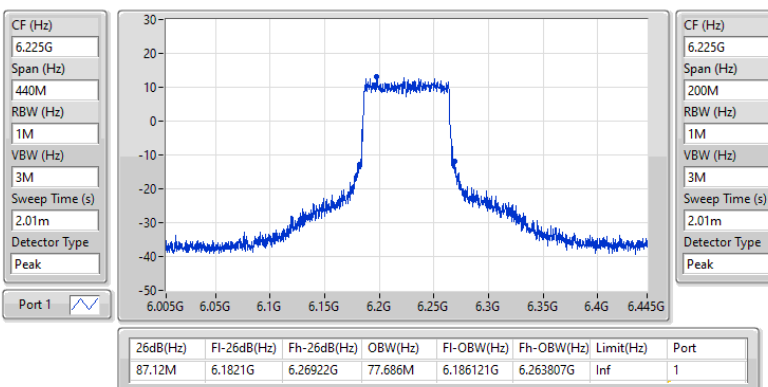


5.925-6.425GHz_802.11be EHT80_Nss1,(MCS0)_1TX

EBW

6225MHz

15/02/2025

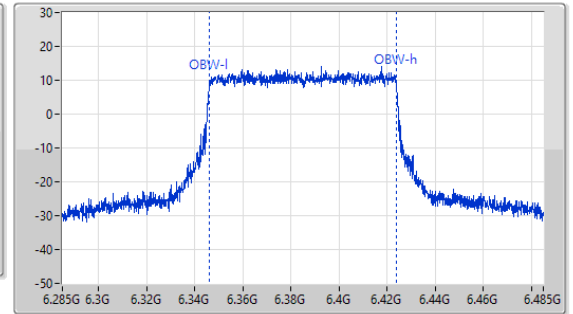
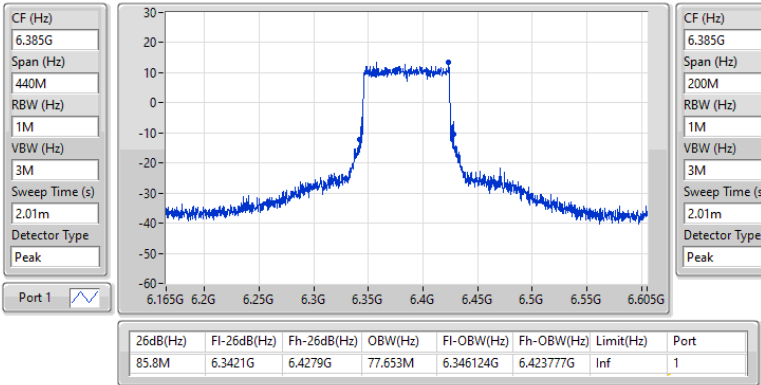


5.925-6.425GHz_802.11be EHT80_Nss1,(MCS0)_1TX

EBW

6385MHz

15/02/2025

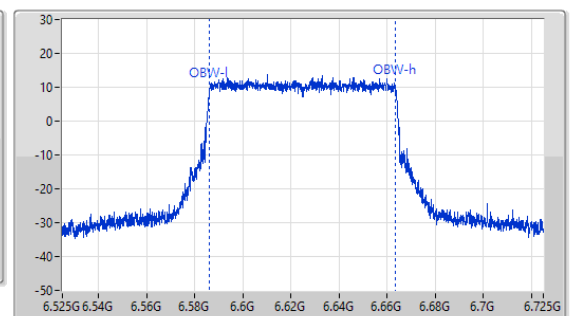
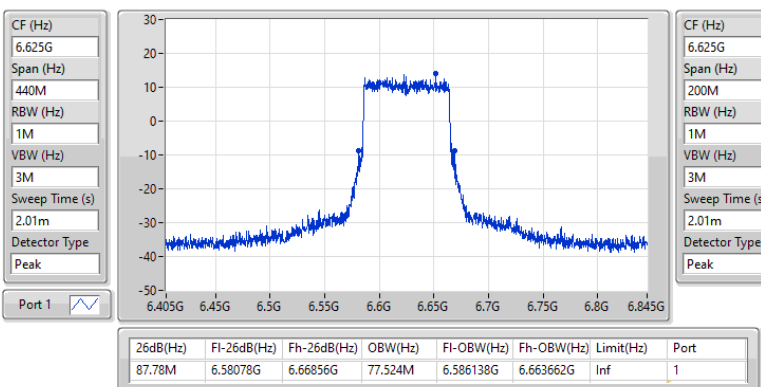


6.525-6.875GHz_802.11be EHT80_Nss1,(MCS0)_1TX

EBW

6625MHz

15/02/2025

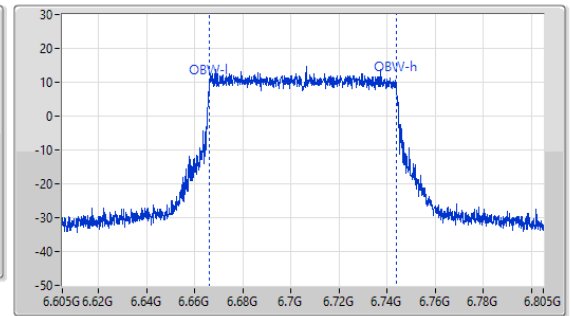
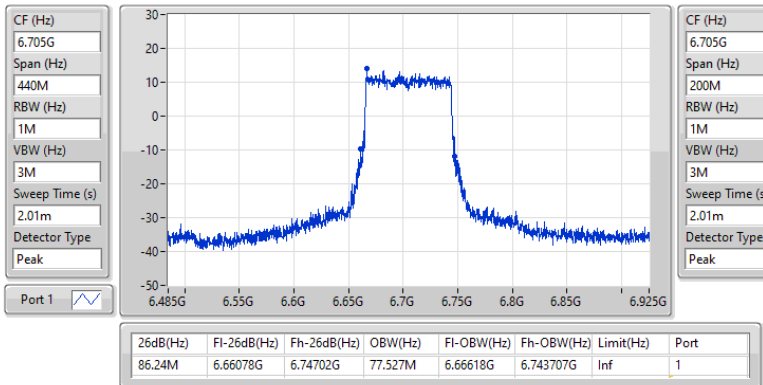


6.525-6.875GHz_802.11be EHT80_Nss1,(MCS0)_1TX

EBW

6705MHz

15/02/2025

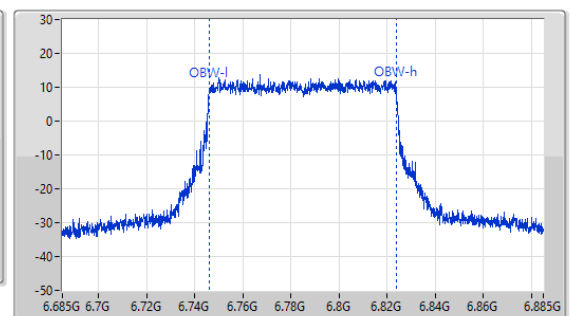
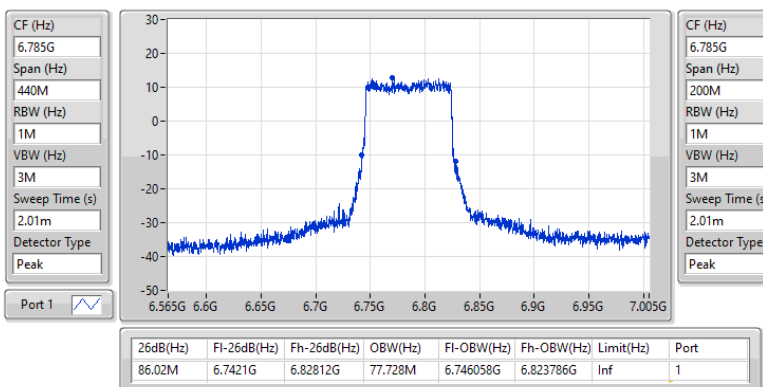


6.525-6.875GHz_802.11be EHT80_Nss1,(MCS0)_1TX

EBW

6785MHz

15/02/2025

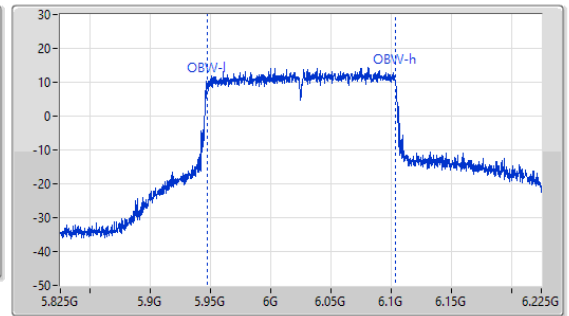
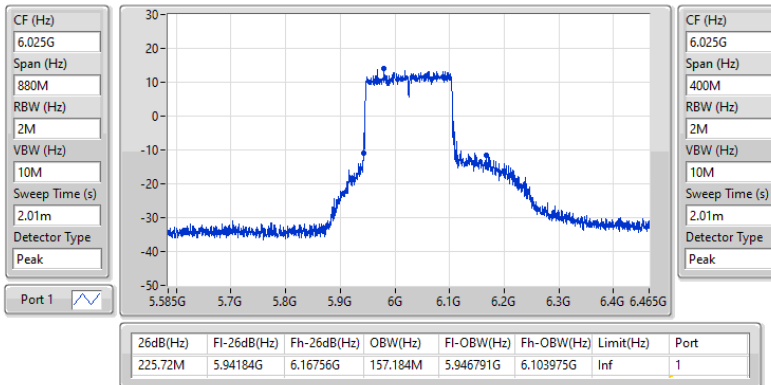


5.925-6.425GHz_802.11be EHT160_Nss1,(MCS0)_1TX

EBW

6025MHz

15/02/2025

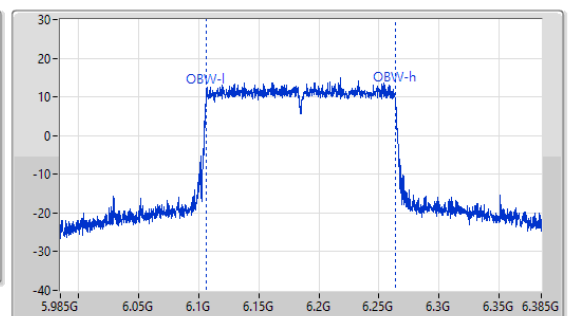
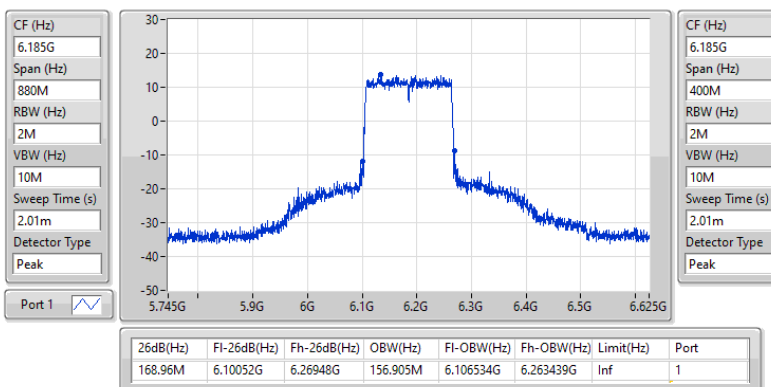


5.925-6.425GHz_802.11be EHT160_Nss1,(MCS0)_1TX

EBW

6185MHz

15/02/2025

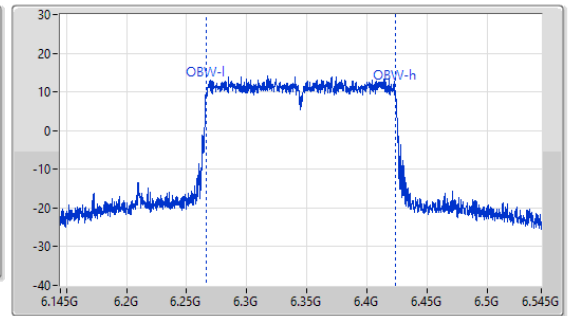
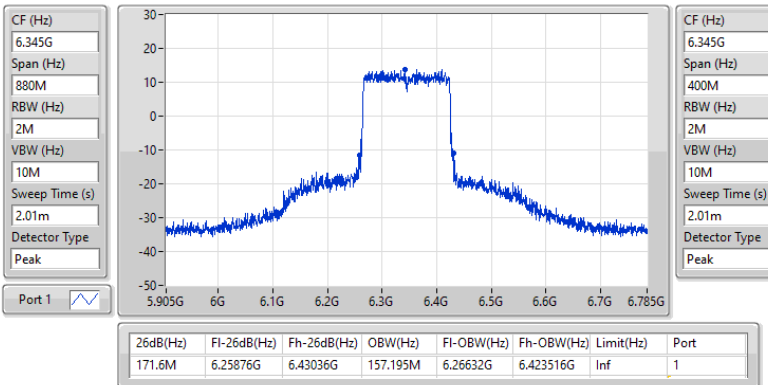


5.925-6.425GHz_802.11be EHT160_Nss1,(MCS0)_1TX

EBW

6345MHz

15/02/2025

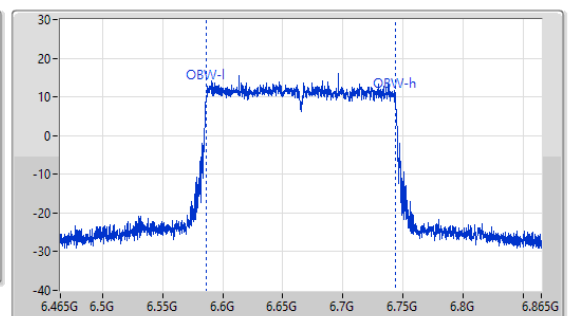
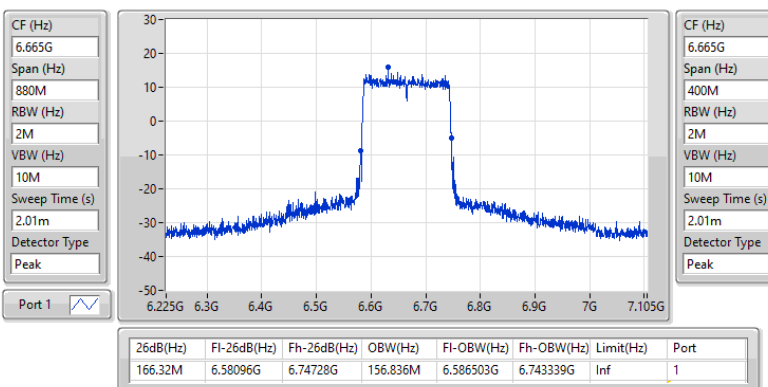


6.525-6.875GHz_802.11be EHT160_Nss1,(MCS0)_1TX

EBW

6665MHz

15/02/2025

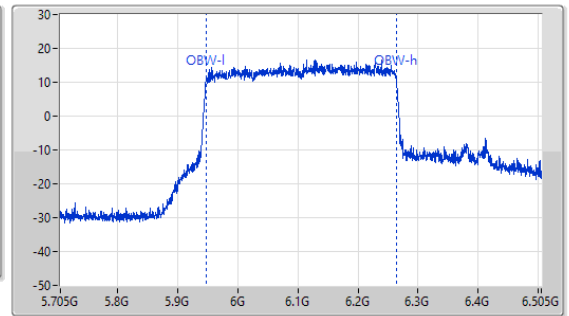
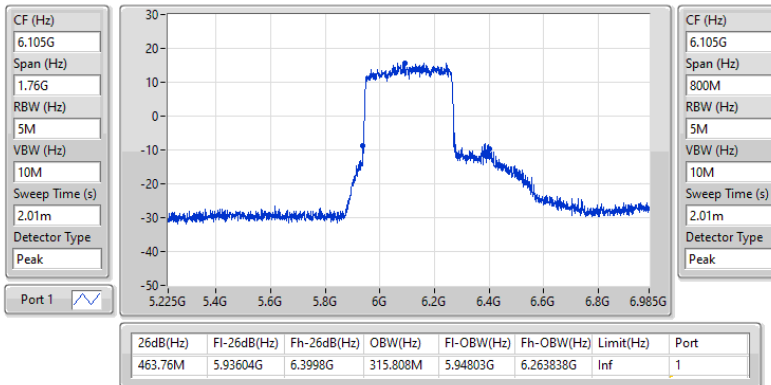


5.925-6.425GHz_802.11be EHT320_Nss1,(MCS0)_1TX

EBW

6105MHz

15/02/2025

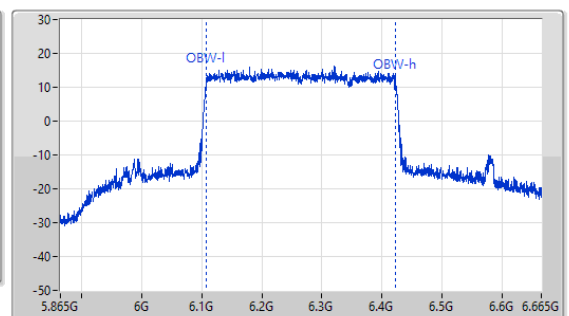
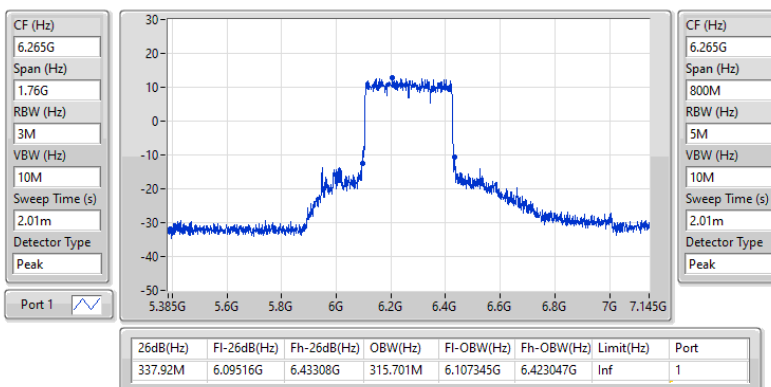


5.925-6.425GHz_802.11be EHT320_Nss1,(MCS0)_1TX

EBW

6265MHz

15/02/2025

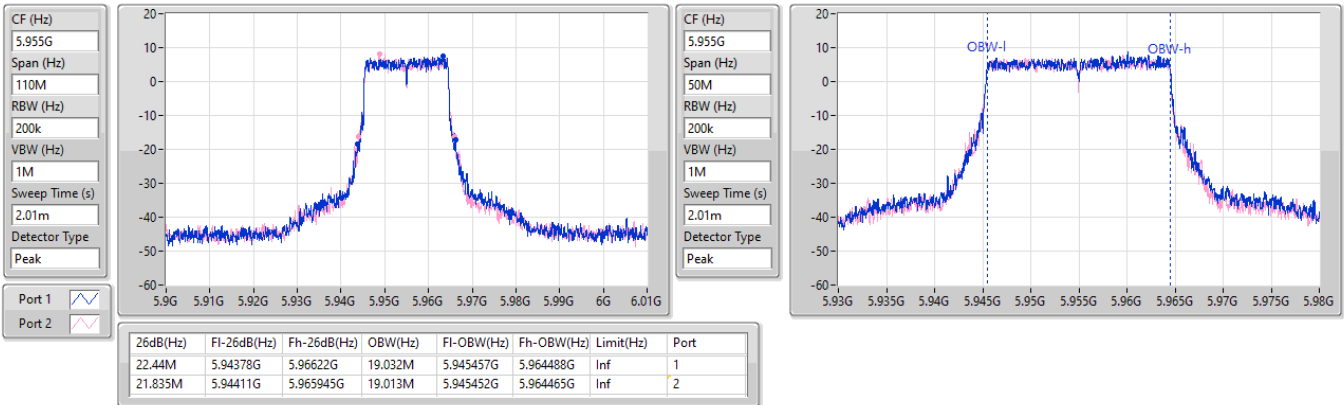


5.925-6.425GHz_802.11be EHT20_Nss1,(MCS0)_2TX

EBW

5955MHz

15/02/2025

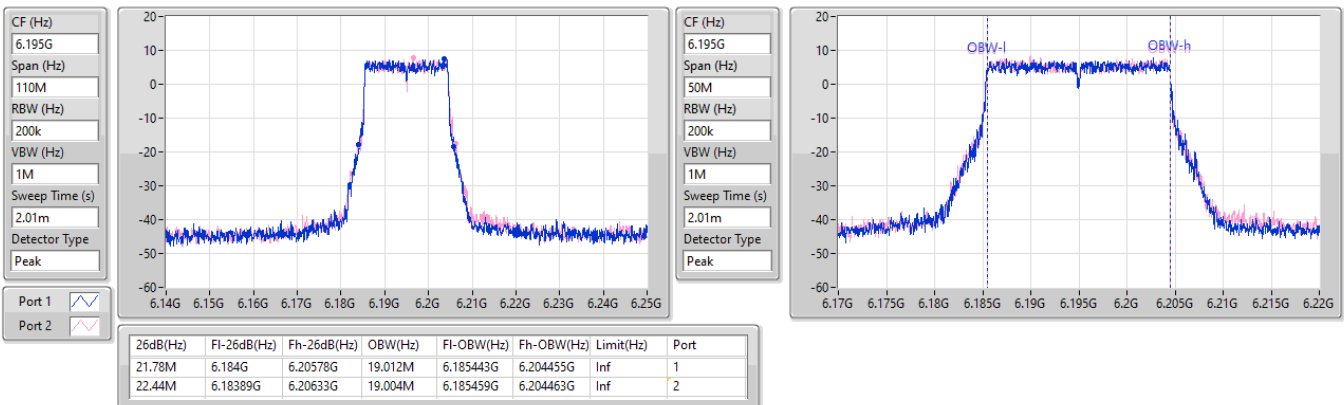


5.925-6.425GHz_802.11be EHT20_Nss1,(MCS0)_2TX

EBW

6195MHz

15/02/2025

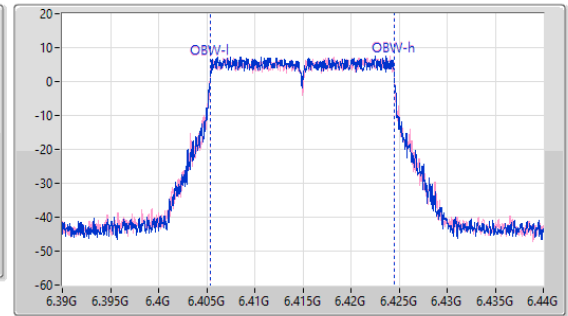
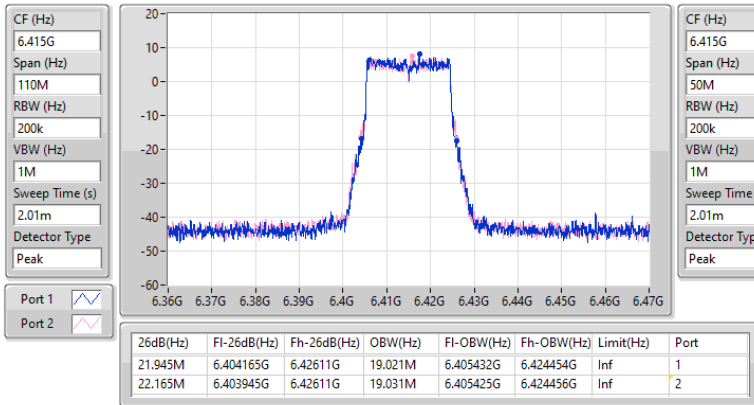


5.925-6.425GHz_802.11be EHT20_Nss1,(MCS0)_2TX

EBW

6415MHz

15/02/2025

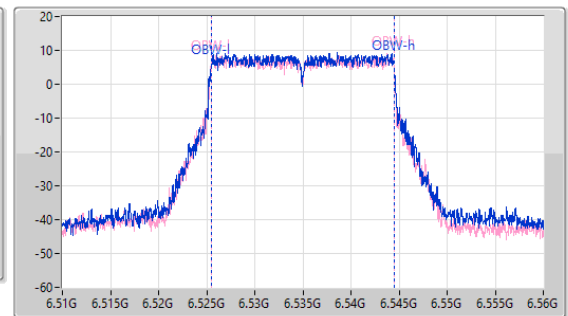
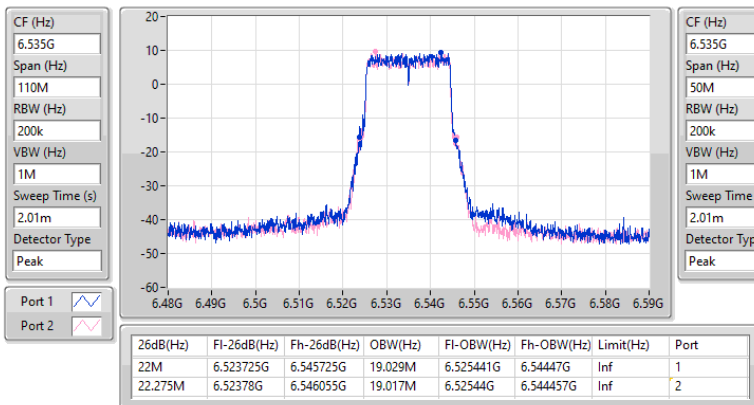


6.525-6.875GHz_802.11be EHT20_Nss1,(MCS0)_2TX

EBW

6535MHz

15/02/2025

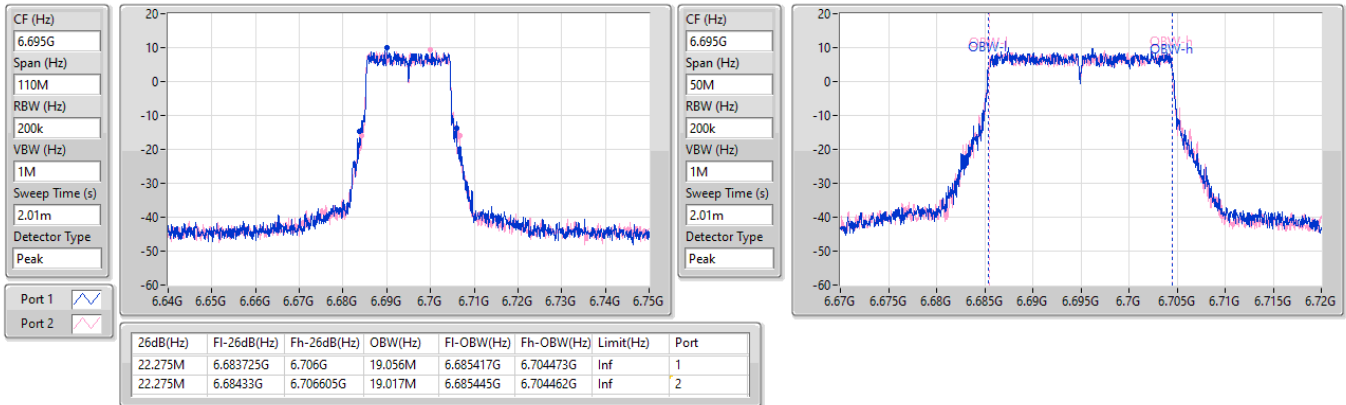


6.525-6.875GHz_802.11be EHT20_Nss1,(MCS0)_2TX

EBW

6695MHz

15/02/2025

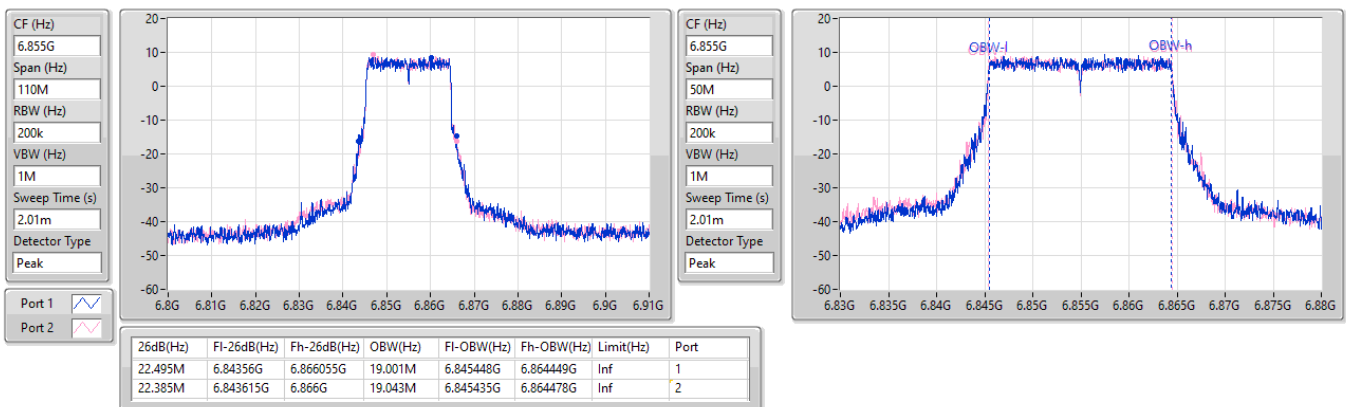


6.525-6.875GHz_802.11be EHT20_Nss1,(MCS0)_2TX

EBW

6855MHz

15/02/2025

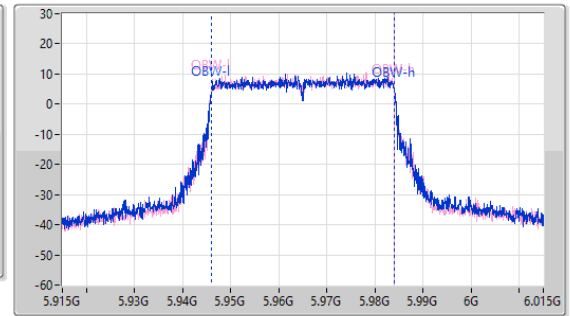
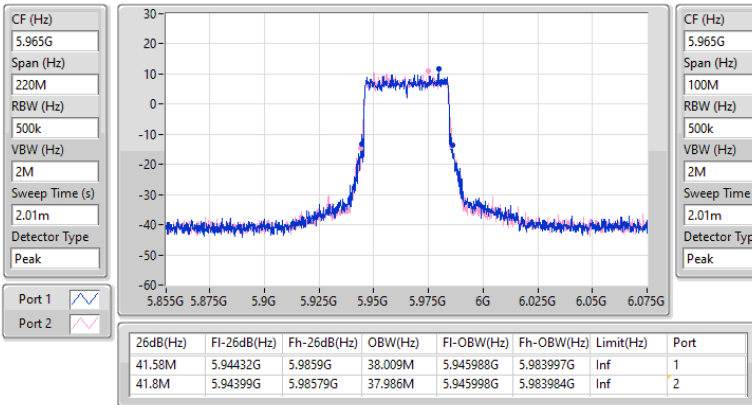


5.925-6.425GHz_802.11be EHT40_Nss1,(MCS0)_2TX

EBW

5965MHz

15/02/2025

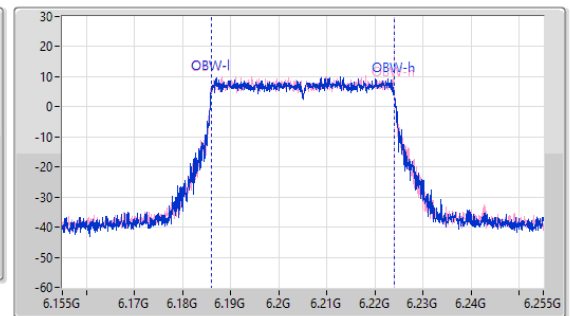
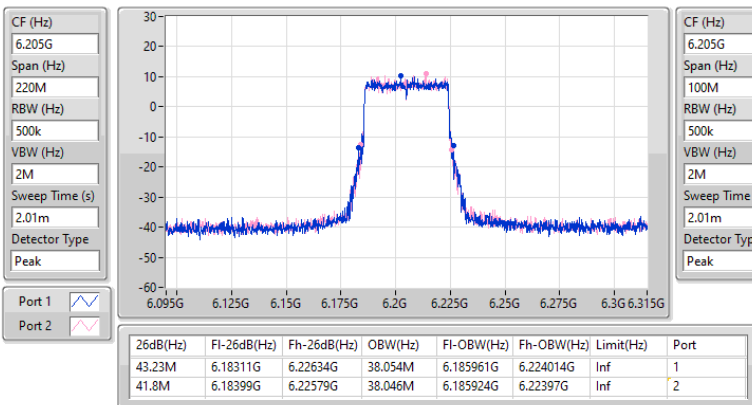


5.925-6.425GHz_802.11be EHT40_Nss1,(MCS0)_2TX

EBW

6205MHz

15/02/2025

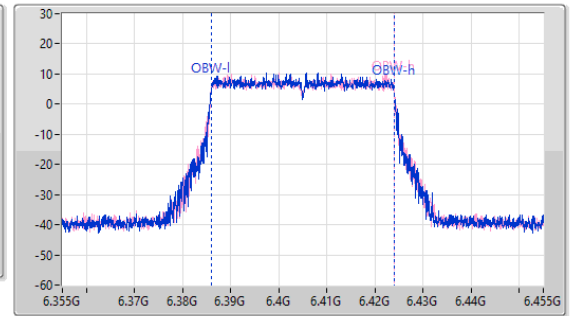
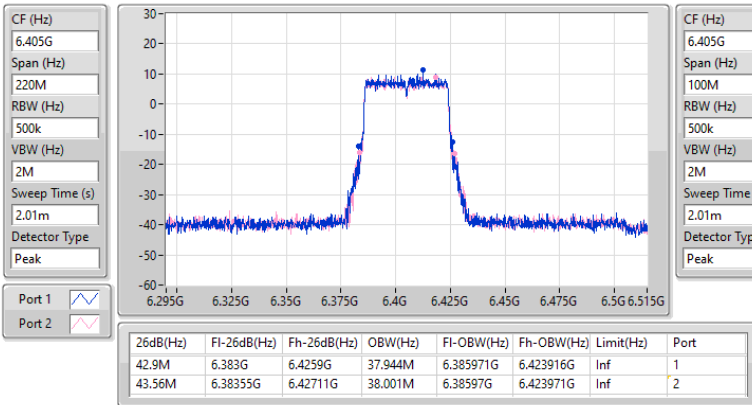


5.925-6.425GHz_802.11be EHT40_Nss1,(MCS0)_2TX

EBW

6405MHz

15/02/2025

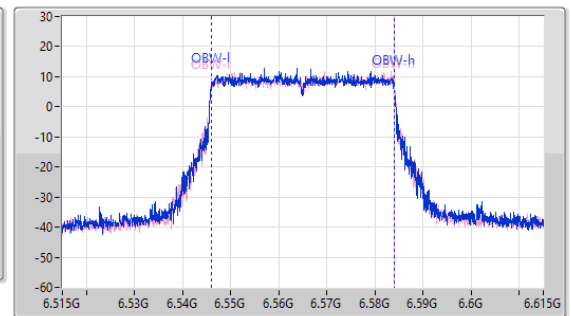
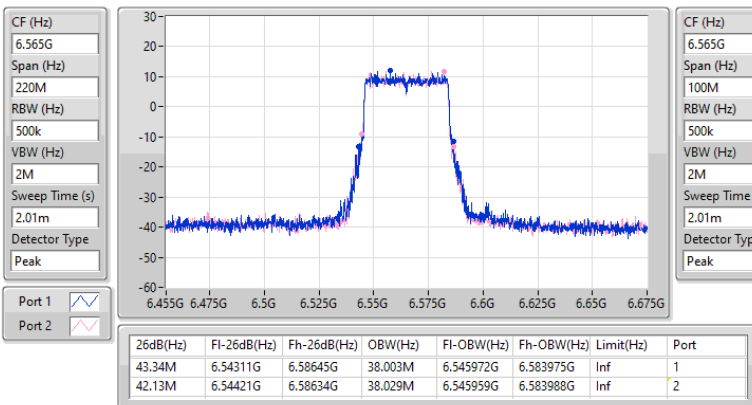


6.525-6.875GHz_802.11be EHT40_Nss1,(MCS0)_2TX

EBW

6565MHz

15/02/2025

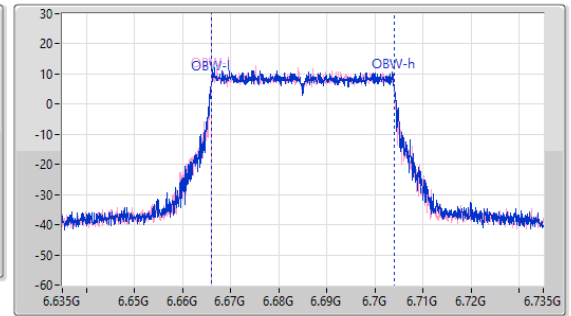
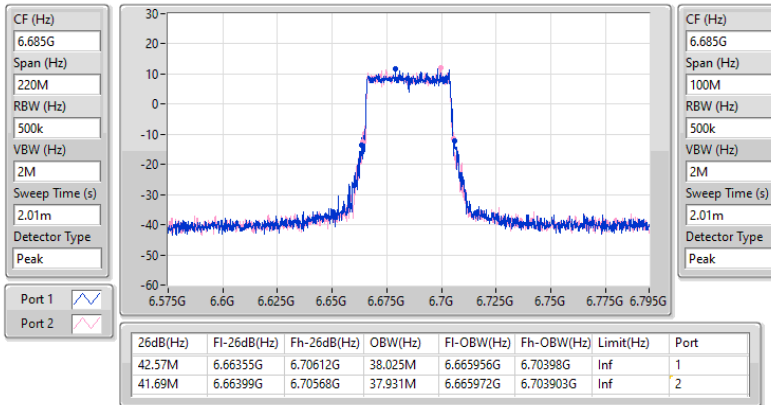


6.525-6.875GHz_802.11be EHT40_Nss1,(MCS0)_2TX

EBW

6685MHz

15/02/2025

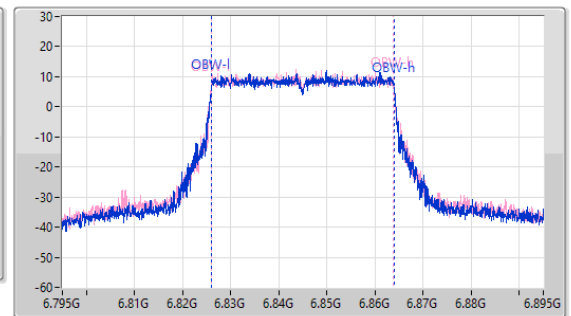
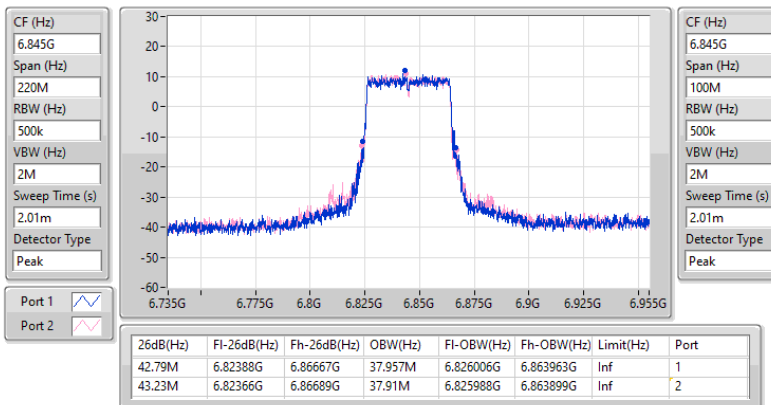


6.525-6.875GHz_802.11be EHT40_Nss1,(MCS0)_2TX

EBW

6845MHz

15/02/2025

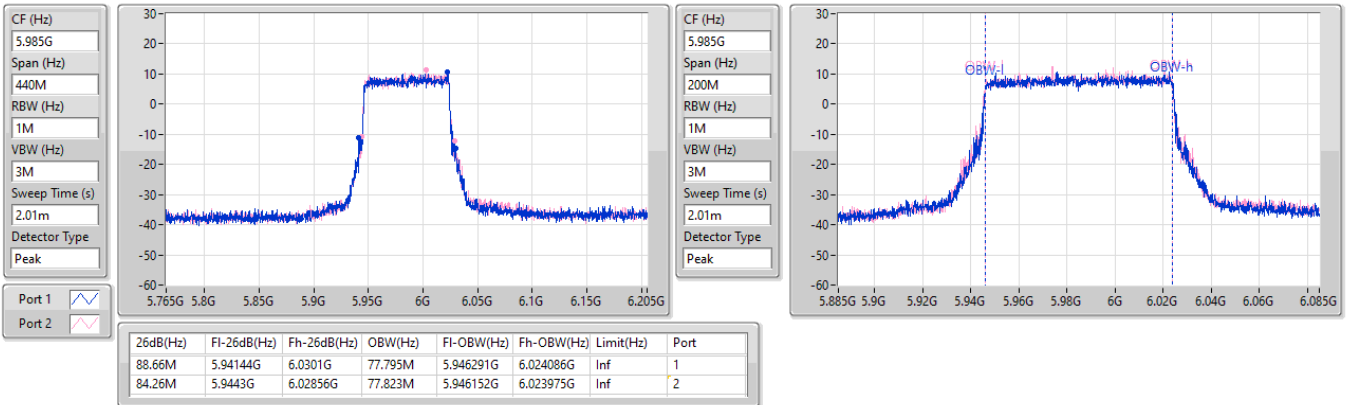


5.925-6.425GHz_802.11be EHT80_Nss1,(MCS0)_2TX

EBW

5985MHz

15/02/2025

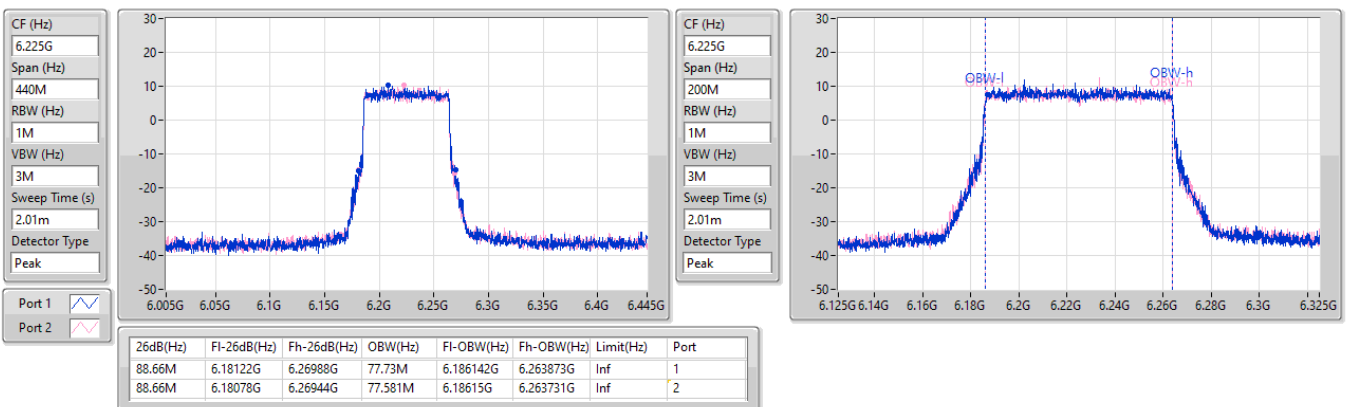


5.925-6.425GHz_802.11be EHT80_Nss1,(MCS0)_2TX

EBW

6225MHz

15/02/2025

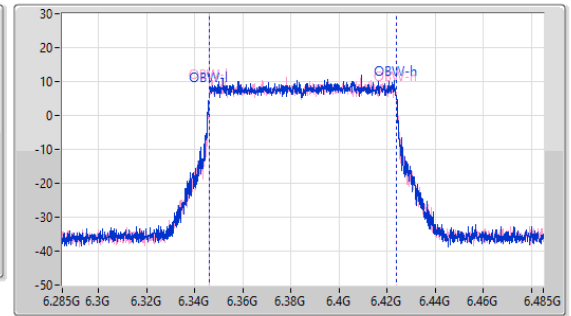
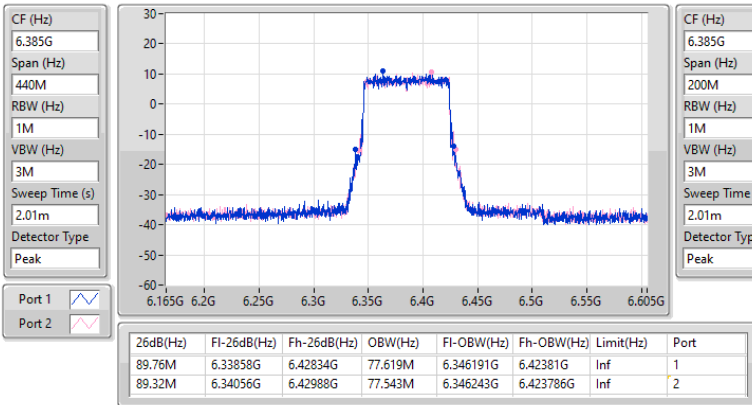


5.925-6.425GHz_802.11be EHT80_Nss1,(MCS0)_2TX

EBW

6385MHz

15/02/2025

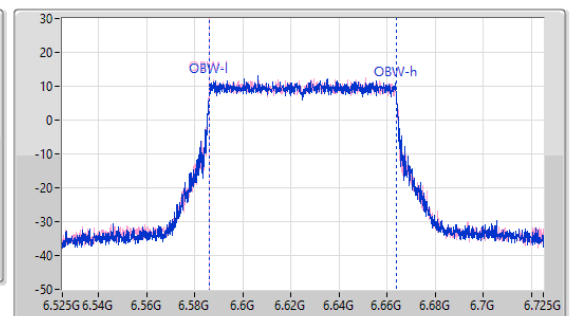
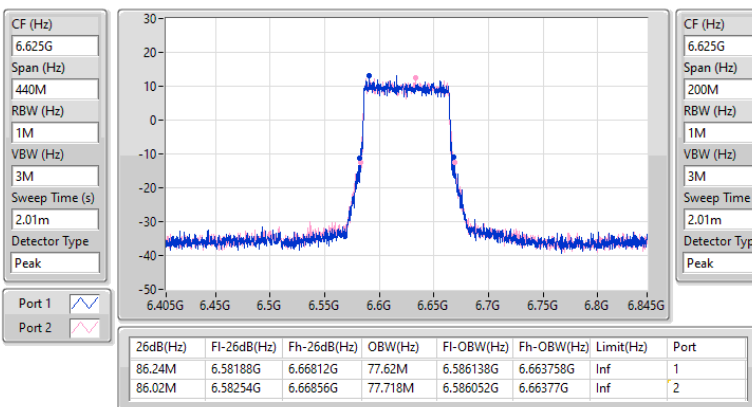


6.525-6.875GHz_802.11be EHT80_Nss1,(MCS0)_2TX

EBW

6625MHz

15/02/2025

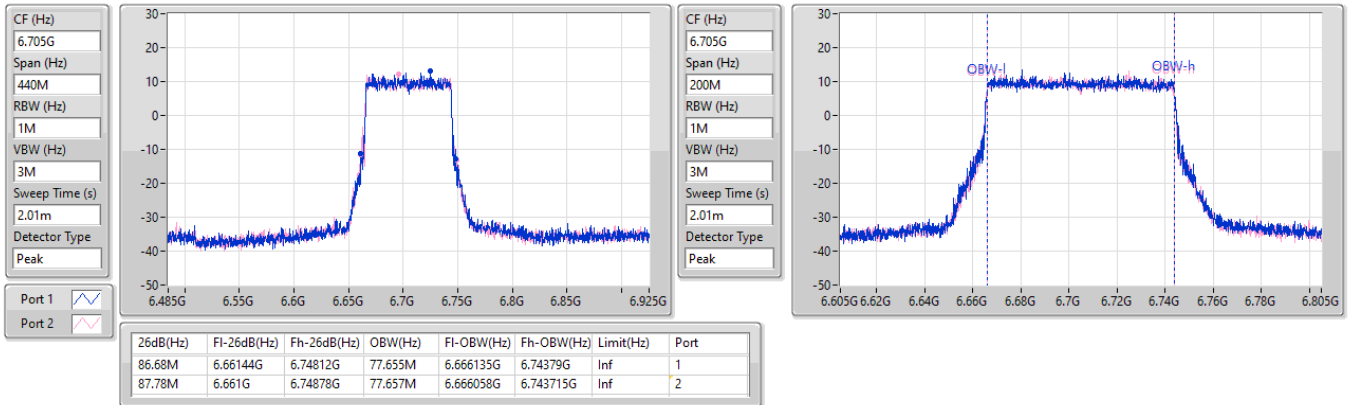


6.525-6.875GHz_802.11be EHT80_Nss1,(MCS0)_2TX

EBW

6705MHz

15/02/2025

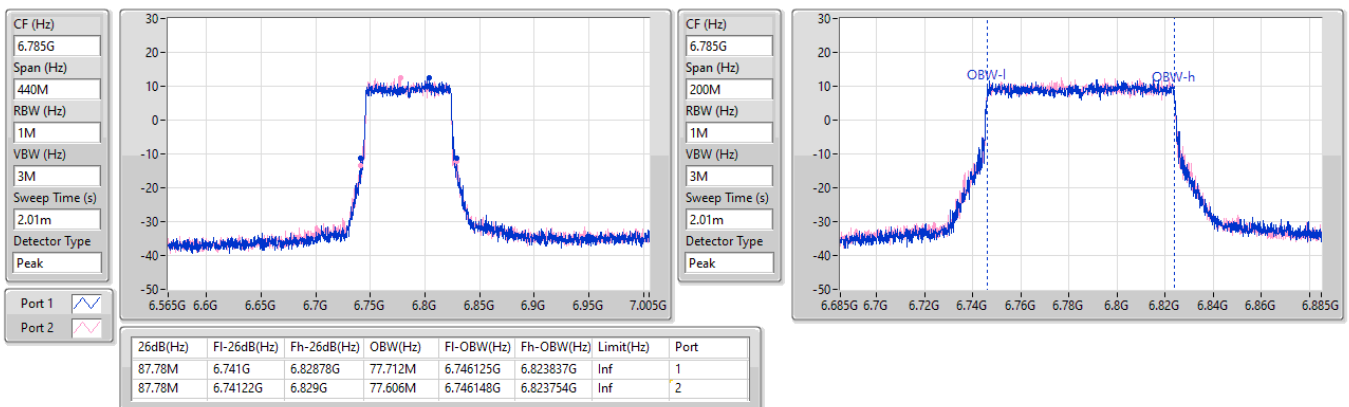


6.525-6.875GHz_802.11be EHT80_Nss1,(MCS0)_2TX

EBW

6785MHz

15/02/2025

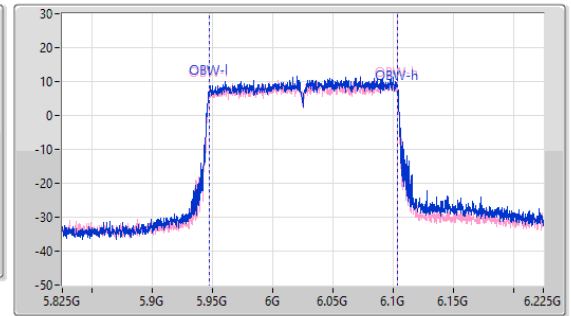
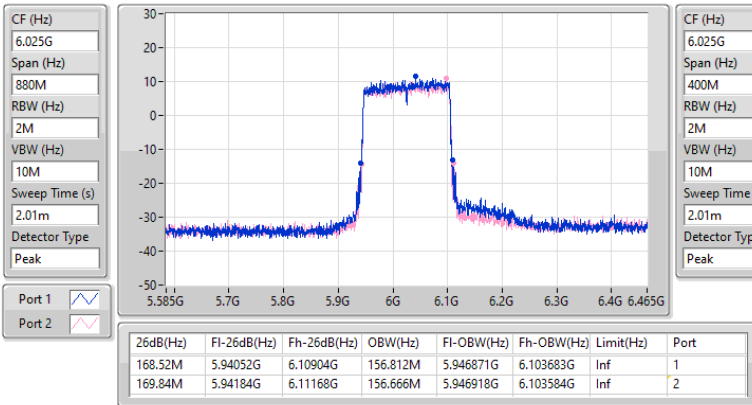


5.925-6.425GHz_802.11be EHT160_Nss1,(MCS0)_2TX

EBW

6025MHz

15/02/2025

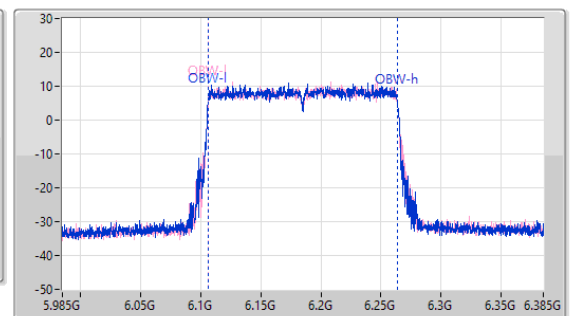
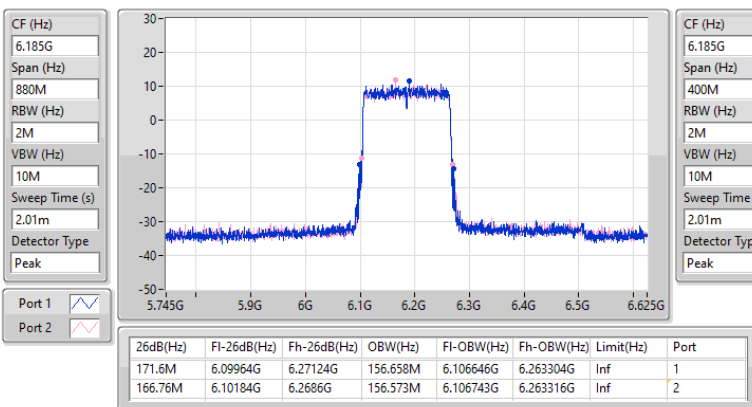


5.925-6.425GHz_802.11be EHT160_Nss1,(MCS0)_2TX

EBW

6185MHz

15/02/2025

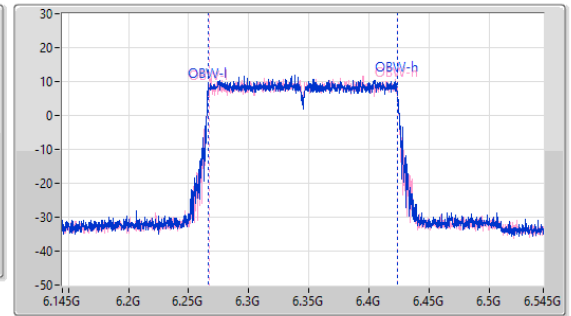
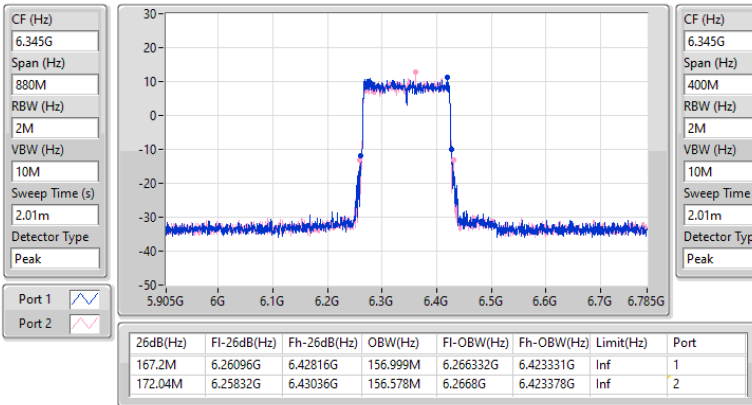


5.925-6.425GHz_802.11be EHT160_Nss1,(MCS0)_2TX

EBW

6345MHz

15/02/2025

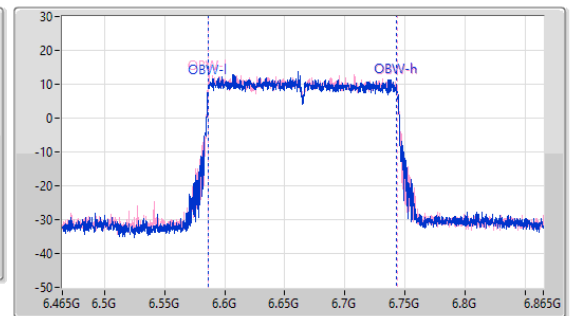
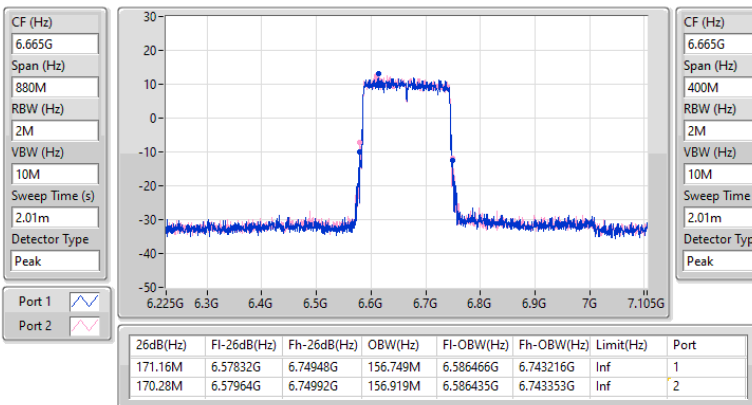


6.525-6.875GHz_802.11be EHT160_Nss1,(MCS0)_2TX

EBW

6665MHz

15/02/2025

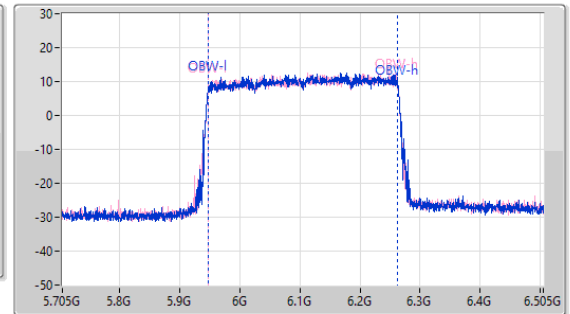
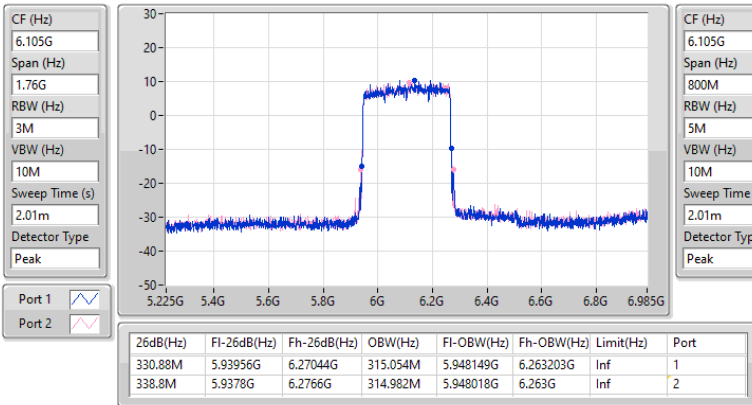


5.925-6.425GHz_802.11be EHT320_Nss1,(MCS0)_2TX

EBW

6105MHz

15/02/2025

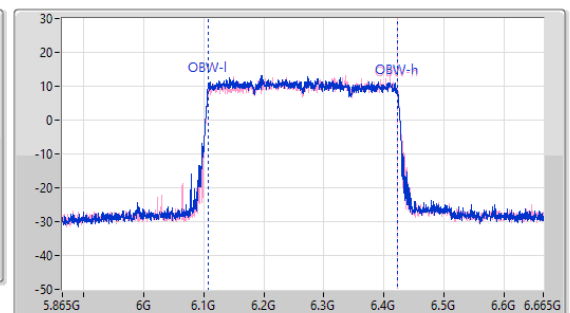
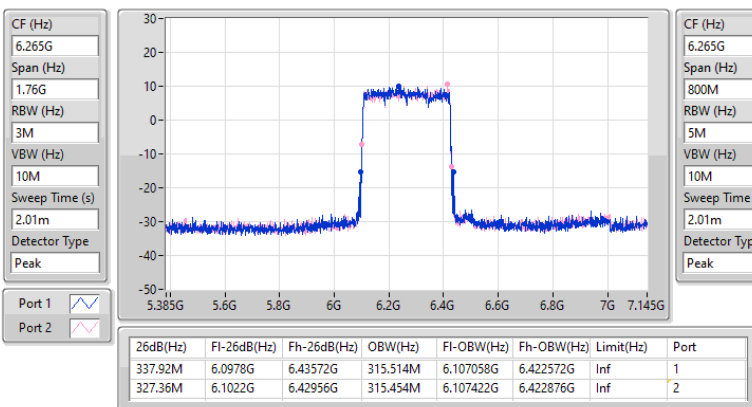


5.925-6.425GHz_802.11be EHT320_Nss1,(MCS0)_2TX

EBW

6265MHz

15/02/2025

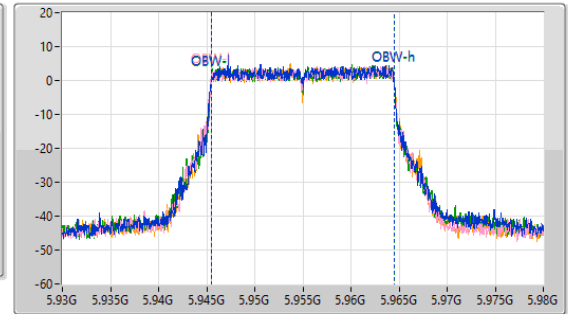
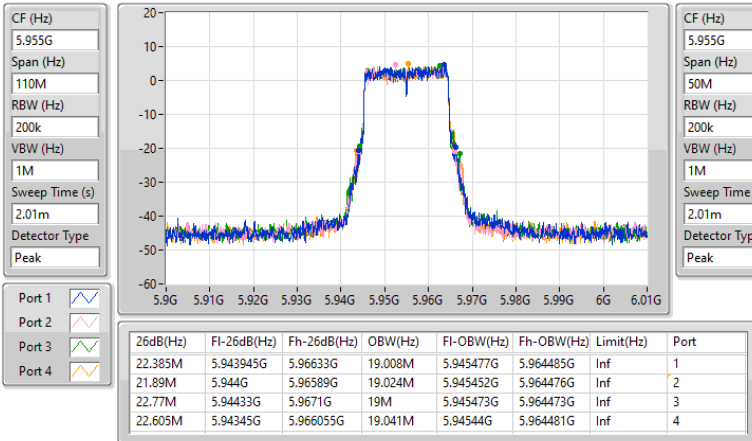


5.925-6.425GHz_802.11be EHT20_Nss1,(MCS0)_4TX

EBW

5955MHz

15/02/2025

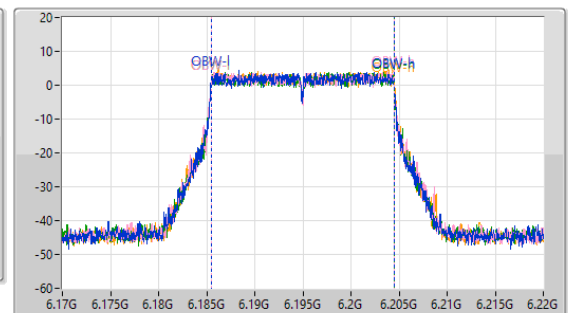
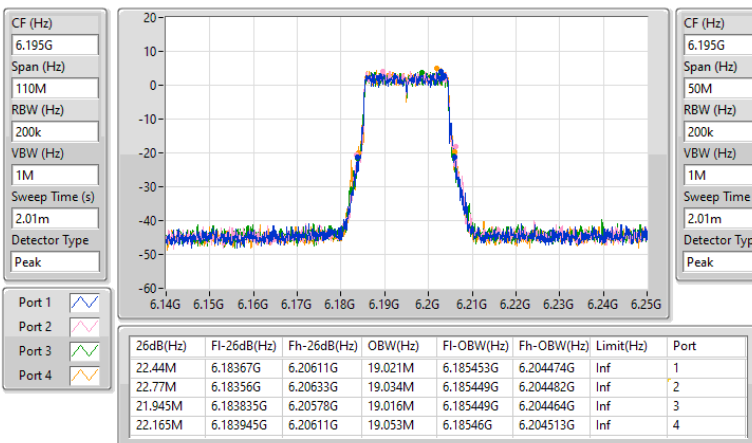


5.925-6.425GHz_802.11be EHT20_Nss1,(MCS0)_4TX

EBW

6195MHz

15/02/2025

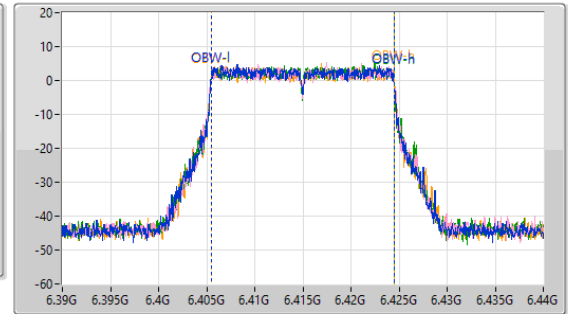
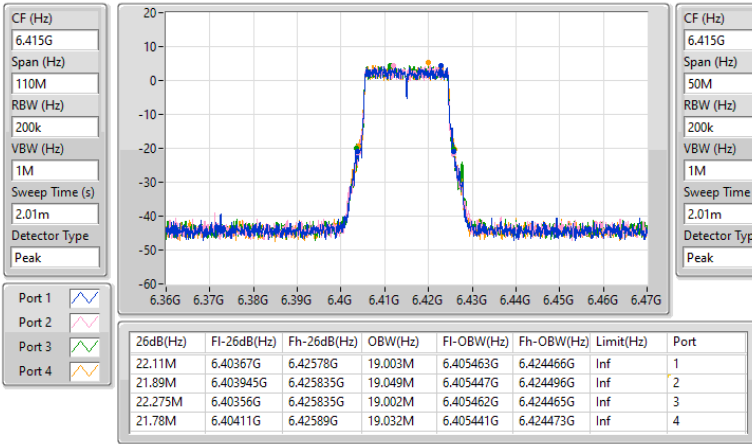


5.925-6.425GHz_802.11be EHT20_Nss1,(MCS0)_4TX

EBW

6415MHz

15/02/2025

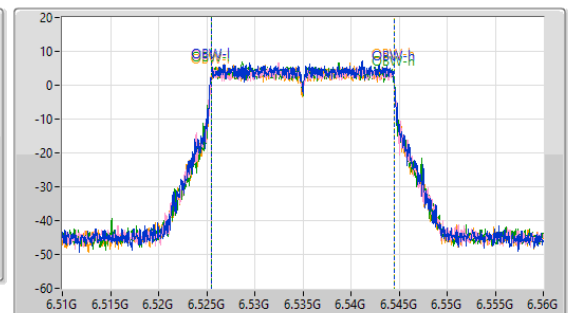
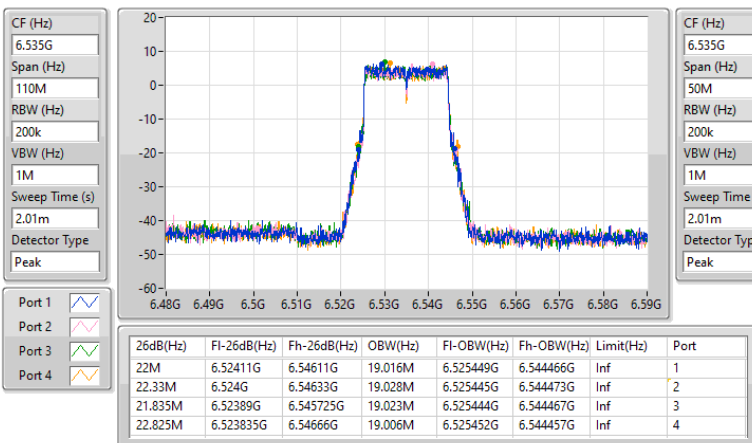


6.525-6.875GHz_802.11be EHT20_Nss1,(MCS0)_4TX

EBW

6535MHz

15/02/2025

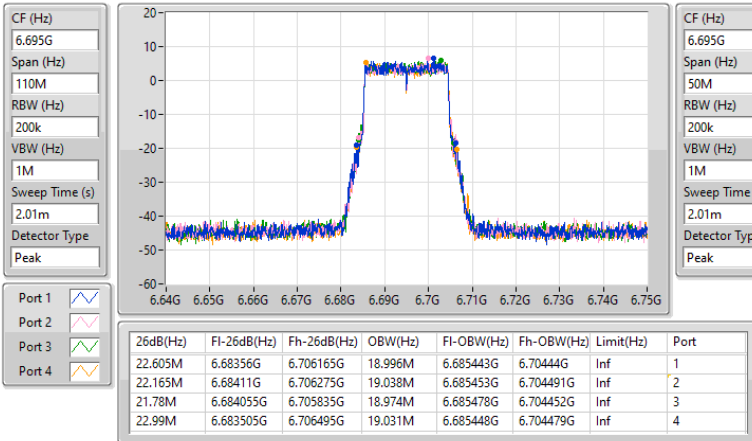


6.525-6.875GHz_802.11be EHT20_Nss1,(MCS0)_4TX

EBW

6695MHz

15/02/2025

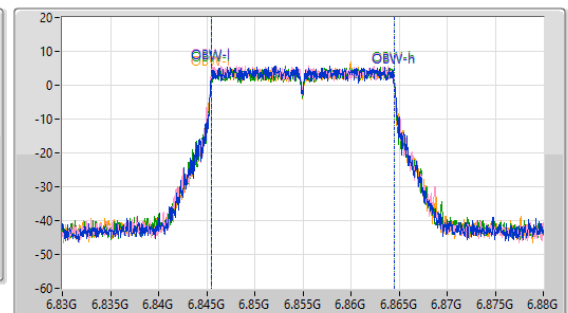
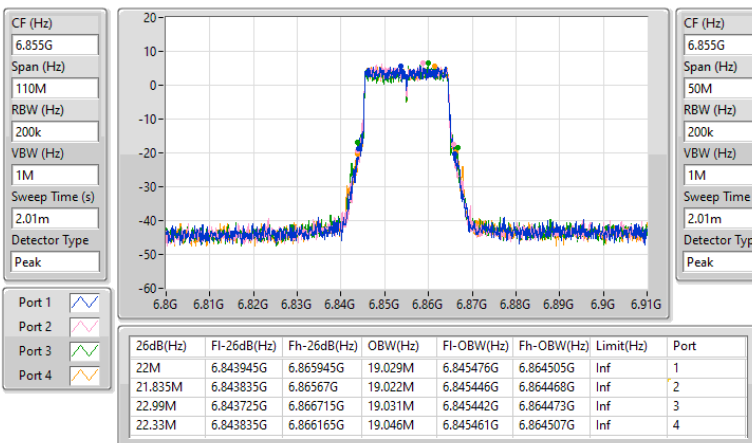


6.525-6.875GHz_802.11be EHT20_Nss1,(MCS0)_4TX

EBW

6855MHz

15/02/2025

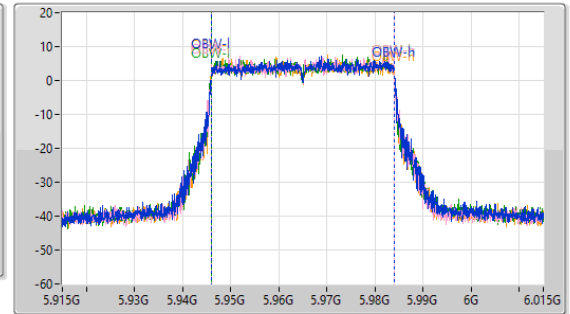
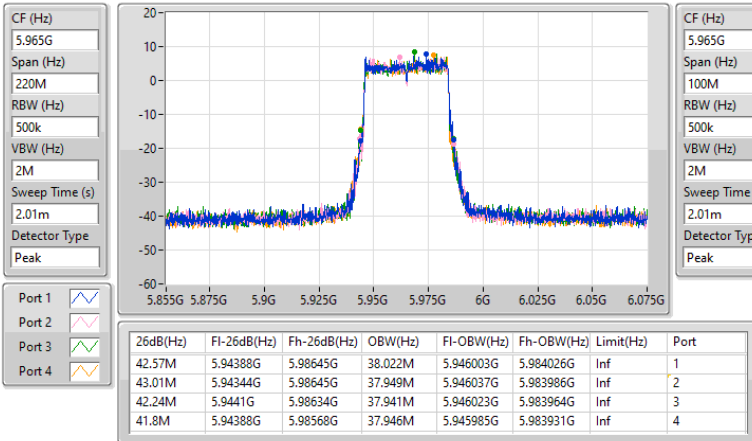


5.925-6.425GHz_802.11be EHT40_Nss1,(MCS0)_4TX

EBW

5965MHz

15/02/2025

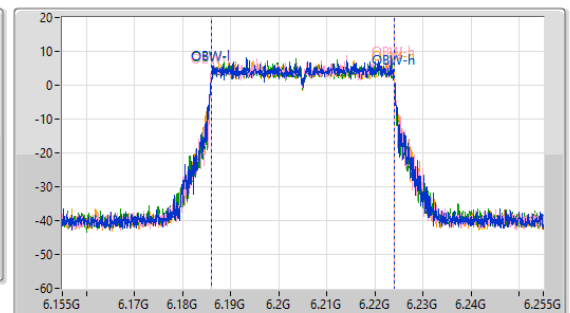
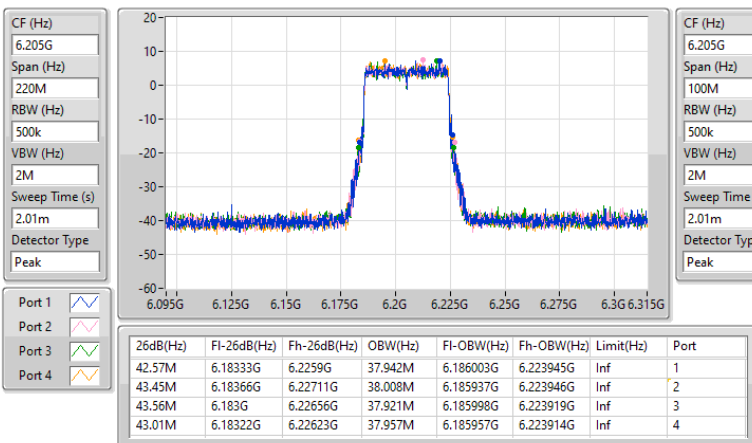


5.925-6.425GHz_802.11be EHT40_Nss1,(MCS0)_4TX

EBW

6205MHz

15/02/2025

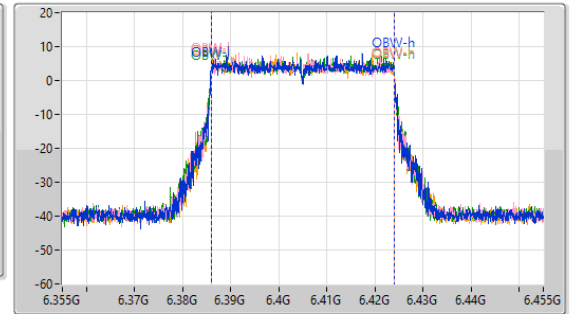
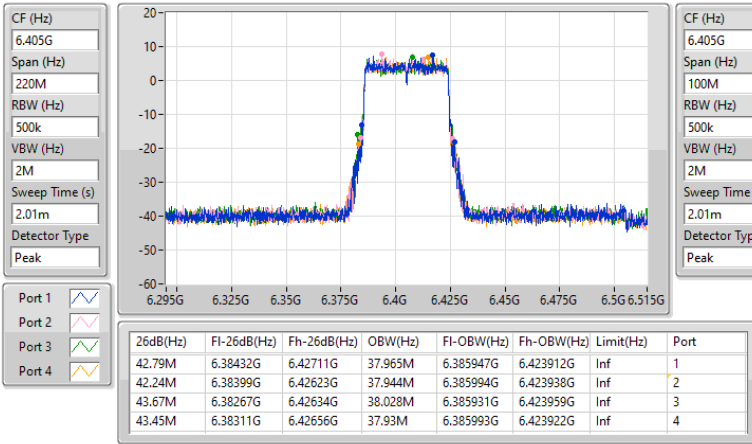


5.925-6.425GHz_802.11be EHT40_Nss1,(MCS0)_4TX

EBW

6405MHz

15/02/2025



6.525-6.875GHz_802.11be EHT40_Nss1,(MCS0)_4TX

EBW

6565MHz

15/02/2025

