

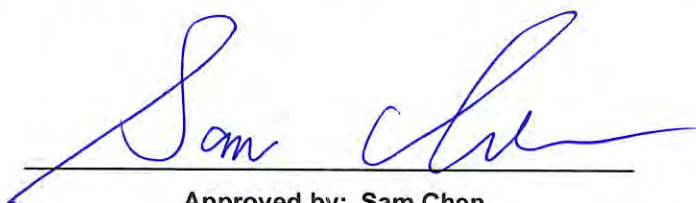


RADIO TEST REPORT

FCC ID : 2AHBN-AP47
Equipment : Wi-Fi 7 Wireless Access Point
Brand Name : Juniper
Model Name : AP47, AP47E, AP47D
Applicant : Juniper Networks, Inc.
1133 Innovation Way Sunnyvale, California 94089 USA
Manufacturer : Juniper Networks, Inc.
1133 Innovation Way Sunnyvale, California 94089 USA
Standard : 47 CFR FCC Part 15.407

The product was received on Oct. 15, 2024, and testing was started from Oct. 16, 2024 and completed on Jan. 17, 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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Photographs of EUT v01



History of this test report

TEL : 886-3-656-9065
FAX : 886-3-656-9085
Report Template No.: CB-A12_5 Ver2.0

Page Number : 3 of 75
Issued Date : Feb. 07, 2025
Report Version : 01

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	-
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	-
3.6	15.407(d)	Contention-Based Protocol	PASS	-

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:

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.

Reviewed by: Sam Chen

Report Producer: Cathy Chiu



1 General Description

1.1 Information

1.1.1 RF General Information

Frequency Range (MHz)	IEEE Std. 802.11	Ch. Frequency (MHz)	Channel Number
5925-7125	ax (HEW20), be (EHT20)	5955-7095	1-229 [58]
5925-7125	ax (HEW40), be (EHT40)	5965-7085	3-227 [29]
5925-7125	ax (HEW80), be (EHT80)	5985-7025	7-215 [14]
5925-7125	ax (HEW160), be (EHT160)	6025-6985	15-207 [7]
5925-7125	be (EHT320)	6105-6905	31-191 [6]

For Radio 1:

Band	Mode	BWch (MHz)	Nant
5.925-7.125GHz	802.11ax HEW20	20	4TX
5.925-7.125GHz	802.11ax HEW20-BF	20	4TX
5.925-7.125GHz	802.11be EHT20	20	4TX
5.925-7.125GHz	802.11be EHT20-BF	20	4TX
5.925-7.125GHz	802.11ax HEW40	40	4TX
5.925-7.125GHz	802.11ax HEW40-BF	40	4TX
5.925-7.125GHz	802.11be EHT40	40	4TX
5.925-7.125GHz	802.11be EHT40-BF	40	4TX
5.925-7.125GHz	802.11ax HEW80	80	4TX
5.925-7.125GHz	802.11ax HEW80-BF	80	4TX
5.925-7.125GHz	802.11be EHT80	80	4TX
5.925-7.125GHz	802.11be EHT80-BF	80	4TX
5.925-7.125GHz	802.11ax HEW160	160	4TX
5.925-7.125GHz	802.11ax HEW160-BF	160	4TX
5.925-7.125GHz	802.11be EHT160	160	4TX
5.925-7.125GHz	802.11be EHT160-BF	160	4TX
5.925-7.125GHz	802.11be EHT320	320	4TX
5.925-7.125GHz	802.11be EHT320-BF	320	4TX

For Radio 3:

Band	Mode	BWch (MHz)	Nant
6.525-7.125GHz	802.11ax HEW20	20	4TX
6.525-7.125GHz	802.11ax HEW20-BF	20	4TX
6.525-7.125GHz	802.11be EHT20	20	4TX
6.525-7.125GHz	802.11be EHT20-BF	20	4TX



Band	Mode	BWch (MHz)	Nant
6.525-7.125GHz	802.11ax HEW40	40	4TX
6.525-7.125GHz	802.11ax HEW40-BF	40	4TX
6.525-7.125GHz	802.11be EHT40	40	4TX
6.525-7.125GHz	802.11be EHT40-BF	40	4TX
6.525-7.125GHz	802.11ax HEW80	80	4TX
6.525-7.125GHz	802.11ax HEW80-BF	80	4TX
6.525-7.125GHz	802.11be EHT80	80	4TX
6.525-7.125GHz	802.11be EHT80-BF	80	4TX
6.525-7.125GHz	802.11ax HEW160	160	4TX
6.525-7.125GHz	802.11ax HEW160-BF	160	4TX
6.525-7.125GHz	802.11be EHT160	160	4TX
6.525-7.125GHz	802.11be EHT160-BF	160	4TX
6.525-7.125GHz	802.11be EHT320	320	4TX
6.525-7.125GHz	802.11be EHT320-BF	320	4TX

For Scanning Radio 4:

Band	Mode	BWch (MHz)	Nant
5.925-7.125GHz	802.11ax HEW20	20	2TX
5.925-7.125GHz	802.11be EHT20	20	2TX
5.925-7.125GHz	802.11ax HEW40	40	2TX
5.925-7.125GHz	802.11be EHT40	40	2TX
5.925-7.125GHz	802.11ax HEW80	80	2TX
5.925-7.125GHz	802.11be EHT80	80	2TX
5.925-7.125GHz	802.11ax HEW160	160	2TX
5.925-7.125GHz	802.11be EHT160	160	2TX
5.925-7.125GHz	802.11be EHT320	320	2TX

**MRU (static preamble puncturing)****For Multi_RU:**

RU-tone	Configuration	Bandwidth (MHz)				6GHz Test CH	
		80				UNII-5 CH7	UNII-8 CH215
484+242	1		242		484	—	V
	2	242			484	V	V
	3		484			V	V
	4		484		242	V	—
RU-tone	Configuration	Bandwidth (MHz)				6GHz Test CH	
		160				UNII-5 CH15	UNII-8 CH207
996+484	1		484		996	—	V
	2	484			996	V	V
	3		996			V	V
	4		996		484	V	—
996+484+242	1		242		484	—	V
	2	242			484	V	V
	3		484			V	V
	4		484		242	V	V
	5		996			V	V
	6		996		242	V	V
	7		996		484	V	V
	8		996		484	V	—
RU-tone	Configuration	Bandwidth (MHz)				6GHz Test CH	
		320				UNII-5 CH31	UNII-8 CH191
2×996+484	1		484		996	—	—
	2	484			996	V	—
	3		996			V	—
	4		996		484	V	—
	5		996		996	V	—
	6		996		996	V	—
	7			484	996	—	V
	8		484		996	—	V
	9			996		484	996
	10			996	484	996	—
	11			996	996	484	484
	12			996	996	—	—
3×996	1			996		996	—
	2		996			996	V
	3		996			996	V
	4		996		996	—	—
3×996+484	1		484		996	—	V
	2	484			996	V	V
	3		996			V	V
	4		996		484	V	V
	5		996		996	V	V
	6		996		484	V	V
	7		996		996	—	—
	8		996		996	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 BE/RSE testing.
5. Confirm whether the worst MRU(static preamble puncturing) configuration setting in steps 2 & 4 is the same. If there is a channel where the setting drops due to the test in step 4, the MRU(static preamble puncturing) conducted PSD needs to be retested.
6. Use worst configuration of MRU(static preamble puncturing) and perform MASK measurements by conducted method.



1.1.3 Antenna Information

For EUT 1:

Ant.	RF Port	Brand Name	Model Name	Ant. Type	Connector	Gain (dBi)	Modes of Operation
1	2	Juniper	AP47	PIFA	IPEX	Note 1	WLAN 2.4GHz, WLAN 5GHz UNII 1-2A, WLAN 6GHz UNII 7-8 (Radio 3)
2	1	Juniper	AP47	PIFA	IPEX		
3	3	Juniper	AP47	PIFA	IPEX		
4	4	Juniper	AP47	PIFA	IPEX		
5	2	Juniper	AP47	Alford loop	IPEX		WLAN 5GHz UNII 1-2A or UNII 2C-4 (Radio 2)
6	1	Juniper	AP47	Alford loop	IPEX		
7	3	Juniper	AP47	Alford loop	IPEX		
8	4	Juniper	AP47	Alford loop	IPEX		
9	2	Juniper	AP47	PIFA	IPEX		WLAN 6GHz UNII 5 or UNII 6-8 (Radio 1)
10	1	Juniper	AP47	PIFA	IPEX		
11	3	Juniper	AP47	PIFA	IPEX		
12	4	Juniper	AP47	PIFA	IPEX		
13	2	Juniper	AP47	PIFA	IPEX		WLAN 2.4GHz, WLAN 5GHz UNII 1-4, WLAN 6GHz UNII 5-8 (Radio 4) (Scanning radio)
14	1	Juniper	AP47	PIFA	IPEX		
15	1	Juniper	AP47	PIFA	I-PEX		
16	1	Juniper	AP47	Slot	I-PEX		
17	1	Juniper	AP47	PIFA	I-PEX		Bluetooth (Radio 5)
18	1	Juniper	AP47	PIFA	IPEX	4.7	
19	2	Juniper	AP47	Patch	IPEX	1.4	
	3					1.8	
	4					1.4	
	4					1.4	
20	1	Juniper	AP47	PIFA	IPEX	2.9	GPS (Radio 7)

Note 1:

Ant.	Antenna Gain (dBi)				
	WLAN 2.4GHz (Radio 3)		WLAN 5GHz UNII 1-2A (Radio 3)		WLAN 6GHz UNII 7-8 (Radio 3)
	2.45GHz	5.2GHz	5.3GHz	6.695GHz	6.995GHz
1	3.06	5.64	5.4	4.47	4.4
2	1.61	4.71	5.23	3.8	4
3	1.81	4.76	4.97	4.4	4.47
4	2.37	5.57	5.93	4.73	4.85
Ant.	WLAN 5GHz UNII 1-4 (Radio 2)				
	5.2GHz	5.3GHz	5.6GHz	5.785GHz	5.885GHz
5	2.46	2.37	3.82	3.81	4.17
6	2.43	2.15	2.98	3.49	3.81
7	2.56	2.33	2.65	3.39	3.44
8	3.28	2.61	4.3	4	3.92
Ant.	WLAN 6GHz UNII 5-8 (Radio 1)				
	6.175GHz	6.475GHz	6.695GHz	6.995GHz	
9	3.76	2.79	3.31	4.3	
10	3.16	2.9	2.57	3.68	
11	4.33	3.72	3.13	4.23	
12	4.63	3.97	3.57	5.09	



Ant.	WLAN 2.4GHz/5GHz UNII 1-4/WLAN 6GHz UNII 5-8 (Radio 4(Scanning radio))									
	2.45GHz	5.2GHz	5.3GHz	5.6GHz	5.785GHz	5.885GHz	6.175GHz	6.475GHz	6.695GHz	6.995GHz
13	2.29	3.12	3.98	4.37	4.51	5.79	4.9	3.84	4.73	4.62
14	2.28	4.62	3.66	5.76	4.67	5.83	4.73	4.72	3.36	3.72
Ant.	Bluetooth (Radio 5)									
	Bluetooth array (Beam 1-Beam 8/Omni)					Bluetooth array (Beam 9)				
15	4.2					-				
16	-					3				
Ant.	802.15.4(Zigbee, Thread) (Radio 5)									
	3.9									
17										

Item	Directional Gain (dBi)									
	WLAN 2.4GHz (Radio 3)		WLAN 5GHz UNII 1-2A (Radio 3)			WLAN 6GHz UNII 7-8 (Radio 3)				
	2.45GHz		5.2GHz	5.3GHz		6.695GHz		6.995GHz		
4T1S	5.27		7.04	7.06		8.84		9.09		
4T2S	3.06		5.64	5.93		5.84		6.09		
4T4S	3.06		5.64	5.93		4.73		4.85		
Item	WLAN 5GHz UNII 1-4 (Radio 2)									
	5.2GHz		5.3GHz	5.6GHz		5.785GHz		5.885GHz		
4T1S	7.11		6.52	7.65		7.52		7.28		
4T2S	4.11		3.52	4.65		4.52		4.28		
4T4S	3.28		2.61	4.3		4		4.17		
Item	WLAN 6GHz UNII 5-8 (Radio 1)									
	6.175GHz		6.475GHz		6.695GHz		6.995GHz			
4T1S	7.65		7.01		6.42		7.54			
4T2S	4.65		4.01		3.57		5.09			
4T4S	4.63		3.97		3.57		5.09			
Item	WLAN 2.4GHz/5GHz UNII 1-4/WLAN 6GHz UNII 5-8 (Radio 4(Scanning radio))									
	2.45GHz	5.2GHz	5.3GHz	5.6GHz	5.785GHz	5.885GHz	6.175GHz	6.475GHz	6.695GHz	6.995GHz
2T1S	4.59	5.03	5.57	6.24	5.74	6.86	5.9	5.09	4.73	4.62
2T2S	2.29	4.62	3.98	5.76	4.67	5.83	4.9	4.72	4.73	4.62

Note 2: The above information (excepting Ant. 1-14 antenna gain and directional gain) was declared by manufacturer.

Note 3: The EUT has twenty antennas.

The ant.15 is BLE array (Beam 1-Beam 8/Omni).

The ant.16 is BLE array (Beam 9).

Beam 1-Beam 8, Omni, and Beam 9 can't operate simultaneously.

Note 4: Radio 1-4: Maximum Directional Gain following KDB662911 D03.

For Radio 1:

For 6GHz (UNII 5 or UNII 6-8) IEEE 802.11ax/be mode (4TX/4RX)

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

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

For Radio 2:

For 5GHz (UNII 1-2A or UNII 2C-4) IEEE 802.11a/n/ac/ax/be mode (4TX/4RX)

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

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

For Radio 3:

For 2.4GHz IEEE 802.11b/g/n/VHT/ax/be mode (4TX/4RX)

For 5GHz (UNII 1-2A) IEEE 802.11a/n/ac/ax/be mode (4TX/4RX)

For 6GHz (UNII 7-8) IEEE 802.11ax/be mode (4TX/4RX)

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

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

For Radio 4(Scanning radio):

For 2.4GHz IEEE 802.11b/g/n/VHT/ax/be mode (2TX/2RX)

For 5GHz (UNII 1-4) IEEE 802.11a/n/ac/ax/be mode (2TX/2RX)

For 6GHz (UNII 5-8) IEEE 802.11ax/be mode (2TX/2RX)

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



Port 1 and Port 2 could transmit/receive simultaneously.

For Radio 5:

For Bluetooth and 802.15.4(Zigbee, Thread) mode (1TX/1RX)

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

For Radio 6:

For UWB mode (2TX/4RX):

For 2TX

Port 1 and Port 2 can be use as transmitting antenna.

Port 1 and Port 2 could transmit simultaneously.

For 4RX

Port 1, Port 2, Port 3 and Port 4 can be used as receiving antennas.

Port 1, Port 2, Port 3 and Port 4 could receive simultaneously.

For Radio 7:

For GPS (1RX)

Only Port 1 can be used as receiving antenna.


For EUT 2:

Ant.	RF Port	Brand Name	Model Name	Ant. Type	Connector	Gain (dBi)	Modes of Operation
1	2	Juniper	AP47D	Dipole	IPEX	Note 1	WLAN 2.4GHz, WLAN 5GHz UNII 1-2A, WLAN 6GHz UNII 7-8 (Radio 3)
2	1	Juniper	AP47D	Dipole	IPEX		
3	3	Juniper	AP47D	Dipole	IPEX		
4	4	Juniper	AP47D	Dipole	IPEX		WLAN 5GHz UNII 1-2A or UNII 2C-4 (Radio 2)
5	2	Juniper	AP47D	Patch	IPEX		
6	1	Juniper	AP47D	Patch	IPEX		
7	3	Juniper	AP47D	Patch	IPEX		WLAN 6GHz UNII 5 or UNII 6-8 (Radio 1)
8	4	Juniper	AP47D	Patch	IPEX		
9	2	Juniper	AP47D	Patch	IPEX		
10	1	Juniper	AP47D	Patch	IPEX		WLAN 2.4GHz, WLAN 5GHz UNII 1-4, WLAN 6GHz UNII 5-8 (Radio 4) (Scanning radio)
11	3	Juniper	AP47D	Patch	IPEX		
12	4	Juniper	AP47D	Patch	IPEX		
13	2	Juniper	AP47D	Dipole	IPEX	Note 1	Bluetooth (Radio 5)
14	1	Juniper	AP47D	Dipole	IPEX		
15	1	Juniper	AP47D	PIFA	I-PEX		
16	1	Juniper	AP47D	Slot	I-PEX		802.15.4(Zigbee, Thread) (Radio 5)
17	1	Juniper	AP47D	Dipole	I-PEX		
18	1	Juniper	AP47D	Patch	IPEX	6.7	UWB (Radio 6)
19	2	Juniper	AP47D	Patch	IPEX	3.4	
	3					0.7	
	4					3.1	
20	1	Juniper	AP47D	PIFA	IPEX	4.6	GPS (Radio 7)

Note 1:

Ant.	Antenna Gain (dBi)				
	WLAN 2.4GHz (Radio 3)		WLAN 5GHz UNII 1-2A (Radio 3)		WLAN 6GHz UNII 7-8 (Radio 3)
	2.45GHz	5.2GHz	5.3GHz	6.695GHz	6.995GHz
1	5.34	3.6	3.6	6.21	7.65
2	5.33	4.58	4.48	6.68	8.1
3	5.53	4.05	4.27	7.32	7.93
4	5.16	5.23	4.51	7.75	8.36
Ant.	WLAN 5GHz UNII 1-4 (Radio 2)				
	5.2GHz	5.3GHz	5.6GHz	5.785GHz	5.885GHz
	5.2GHz	5.3GHz	5.6GHz	5.785GHz	5.885GHz
5	5.51	5.45	6.54	6.38	6.73
6	5.14	5.42	6.3	6.55	6.66
7	5.54	5.88	6.87	6.34	5.62
8	5.37	5.89	7.05	6.65	5.94
Ant.	WLAN 6GHz UNII 5-8 (Radio 1)				
	6.175GHz	6.475GHz	6.695GHz	6.995GHz	
	6.175GHz	6.475GHz	6.695GHz	6.995GHz	
9	7.86	7.99	6.72	7.15	
10	7.59	7.48	6.74	8.29	
11	5.81	6.3	5.48	6.44	
12	6.75	7.28	7.04	7.61	



Ant.	WLAN 2.4GHz/5GHz UNII 1-4/WLAN 6GHz UNII 5-8 (Radio 4(Scanning radio))									
	2.45GHz	5.2GHz	5.3GHz	5.6GHz	5.785GHz	5.885GHz	6.175GHz	6.475GHz	6.695GHz	6.995GHz
13	4.18	4.62	4.53	5.24	4.35	4.43	5.87	5.74	5.31	7.78
14	4.07	5.08	4.76	5.6	6.15	6.29	7.08	6.68	6.97	8.17
Ant.	Bluetooth (Radio 5)									
	Bluetooth array (Beam 1-Beam 8/Omni)					Bluetooth array (Beam 9)				
15	4.3					-				
16	-					3.7				
Ant.	802.15.4(Zigbee, Thread) (Radio 5)									
	6.6									
17										

Item	Directional Gain (dBi)									
	WLAN 2.4GHz (Radio 3)		WLAN 5GHz UNII 1-2A (Radio 3)			WLAN 6GHz UNII 7-8 (Radio 3)				
	2.45GHz		5.2GHz	5.3GHz		6.695GHz		6.995GHz		
4T1S	8.34		7.3		7.56	10.62		10.8		
4T2S	5.53		5.23		4.56	7.75		8.36		
4T4S	5.53		5.23		4.51	7.75		8.36		
Item	WLAN 5GHz UNII 1-4 (Radio 2)									
	5.2GHz		5.3GHz	5.6GHz		5.785GHz		5.885GHz		
	9		8.75		9.58	9.57		9.06		
4T1S	9		8.75		9.58	9.57		9.06		
4T2S	6		5.89		7.05	6.65		6.73		
4T4S	5.54		5.89		7.05	6.65		6.73		
Item	WLAN 6GHz UNII 5-8 (Radio 1)									
	6.175GHz		6.475GHz		6.695GHz		6.995GHz			
	10.14		10.42		9.72		10.76			
4T1S	10.14		10.42		9.72		10.76			
4T2S	7.86		7.99		7.04		8.29			
4T4S	7.86		7.99		7.04		8.29			
Item	WLAN 2.4GHz/5GHz UNII 1-4/WLAN 6GHz UNII 5-8 (Radio 4(Scanning radio))									
	2.45GHz	5.2GHz	5.3GHz	5.6GHz	5.785GHz	5.885GHz	6.175GHz	6.475GHz	6.695GHz	6.995GHz
	6.71	7.72	7.56	8.11	8.31	8.35	9.44	9.16	9.02	10.8
2T1S	6.71	7.72	7.56	8.11	8.31	8.35	9.44	9.16	9.02	10.8
2T2S	4.18	5.08	4.76	5.6	6.15	6.29	7.08	6.68	6.97	8.17

Note 2: The above information (excepting Ant. 1-14 antenna gain and directional gain) was declared by manufacturer.

Note 3: The EUT has twenty antennas.

The ant.15 is BLE array (Beam 1-Beam 8/Omni).

The ant.16 is BLE array (Beam 9).

Beam 1-Beam 8, Omni, and Beam 9 can't operate simultaneously.

Note 4: Radio 1-4: Maximum Directional Gain following KDB662911 D03.

For Radio 1:

For 6GHz (UNII 5 or UNII 6-8) IEEE 802.11ax/be mode (4TX/4RX)

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

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

For Radio 2:

For 5GHz (UNII 1-2A or UNII 2C-4) IEEE 802.11a/n/ac/ax/be mode (4TX/4RX)

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

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

For Radio 3:

For 2.4GHz IEEE 802.11b/g/n/VHT/ax/be mode (4TX/4RX)

For 5GHz (UNII 1-2A) IEEE 802.11a/n/ac/ax/be mode (4TX/4RX)

For 6GHz (UNII 7-8) IEEE 802.11ax/be mode (4TX/4RX)

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

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

For Radio 4(Scanning radio):

For 2.4GHz IEEE 802.11b/g/n/VHT/ax/be mode (2TX/2RX)

For 5GHz (UNII 1-4) IEEE 802.11a/n/ac/ax/be mode (2TX/2RX)

For 6GHz (UNII 5-8) IEEE 802.11ax/be mode (2TX/2RX)



Port 1 and Port 2 can be used as transmitting/receiving antenna.
Port 1 and Port 2 could transmit/receive simultaneously.

For Radio 5:

For Bluetooth and 802.15.4(Zigbee, Thread) mode (1TX/1RX)

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

For Radio 6:

For UWB mode (2TX/4RX):

For 2TX

Port 1 and Port 2 can be use as transmitting antenna.

Port 1 and Port 2 could transmit simultaneously.

For 4RX

Port 1, Port 2, Port 3 and Port 4 can be used as receiving antennas.

Port 1, Port 2, Port 3 and Port 4 could receive simultaneously.

For Radio 7:

For GPS (1RX)

Only Port 1 can be used as receiving antenna.


For EUT 3:

Ant.	RF Port	Brand Name	Model Name	Ant. Type	Connector	Gain (dBi)	Modes of Operation
1	1	AccelTex	ATS-OP-2456-81010-14MPC-36	Patch	6MPC-WHT	Note 1	WLAN 2.4GHz, WLAN 5GHz UNII 1-2A, WLAN 6GHz UNII 7 (Radio 3)
	2						WLAN 5GHz UNII 1-2A or UNII 2C-3 (Radio 2)
	3						WLAN 6GHz UNII 5 or UNII 7 (Radio 1)
	4						WLAN 2.4GHz, WLAN 5GHz UNII 1-3, WLAN 6GHz UNII 5, 7 (Radio 4) (Scanning radio)
	1				4MPC		
	2						
	3						
	4						
	1				6MPC-BLK		
	2						
	3						
	4						
	1				6MPC-BLK		
	2						
3							
4							
2	1	Juniper	AP47E	PIFA	I-PEX	Bluetooth (Radio 5)	
3	1	Juniper	AP47E	Slot	I-PEX		
4	1	Juniper	AP47E	PIFA	I-PEX		
5	1	Juniper	AP47E	PIFA	IPEX	4.7	UWB (Radio 6)
6	2	Juniper	AP47E	Patch	IPEX	1.4	
	3					2.1	
	4					1.7	
7	1	Juniper	AP47E	PIFA	IPEX	3.3	GPS (Radio 7)

Note 1:

Ant.	RF Port	Antenna Gain (dBi)		
		WLAN 2.4GHz (Radio 3)	WLAN 5GHz UNII 1-2A (Radio 3)	WLAN 6GHz UNII 7 (Radio 3)
1	1	8.46	10.01	10
	2	8.46	10.01	10
	3	8.46	10.01	10
	4	8.46	10.01	10
Ant.	RF Port	WLAN 5GHz UNII 1-3 (Radio 2)		
1	1	9.93		
	2	9.93		
	3	9.93		
	4	9.93		

Ant.	RF Port	WLAN 6GHz UNII 5 or UNII 7 (Radio 1)		
1	1	10.57		
	2	10.57		
	3	10.57		
	4	10.57		
	RF Port	WLAN 2.4GHz/5GHz UNII 1-3/WLAN 6GHz UNII 5, 7 (Radio 4(Scanning radio))		
		WLAN 2.4GHz	WLAN 5GHz	WLAN 6GHz
	1	7.8	9.5	10
	2	7.8	9.5	10
Ant.	Bluetooth (Radio 5)			
	Bluetooth array (Beam 1-Beam 8/Omni)		Bluetooth array (Beam 9)	
2	4.0		-	
3	-		2.8	
Ant.	802.15.4(Zigbee, Thread) (Radio 5)			
4	4.1			

Note 2: Directional gain information for Radio 1-3

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

Ex.

Directional Gain (NSS1) formula :

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

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

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

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

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

Where ;

Radio 1:

6G UNII-5 G1 = 10.57 dBi; G2 = 10.57 dBi; G3 = 10.57 dBi; G4 = 10.57 dBi

6G UNII-7 G1 = 10.57 dBi; G2 = 10.57 dBi; G3 = 10.57 dBi; G4 = 10.57 dBi

6G UNII-5 DG = 13.58 dBi

6G UNII-7 DG = 13.58 dBi

Radio 2:

5G UNII-1 G1 = 9.93 dBi; G2 = 9.93 dBi; G3 = 9.93 dBi; G4 = 9.93 dBi

5G UNII-2A G1 = 9.93 dBi; G2 = 9.93 dBi; G3 = 9.93 dBi; G4 = 9.93 dBi

5G UNII-2C G1 = 9.93 dBi; G2 = 9.93 dBi; G3 = 9.93 dBi; G4 = 9.93 dBi

5G UNII-3 G1 = 9.93 dBi; G2 = 9.93 dBi; G3 = 9.93 dBi; G4 = 9.93 dBi

5G UNII-1 DG = 12.94 dBi

5G UNII-2A DG = 12.94 dBi

5G UNII-2C DG = 12.94 dBi

5G UNII-3 DG = 12.94 dBi

Radio 3:

2.4G G1 = 8.46 dBi; G2 = 8.46 dBi; G3 = 8.46 dBi; G4 = 8.46 dBi

5G UNII-1 G1 = 10.01 dBi; G2 = 10.01 dBi; G3 = 10.01 dBi; G4 = 10.01 dBi

5G UNII-2A G1 = 10.01 dBi; G2 = 10.01 dBi; G3 = 10.01 dBi; G4 = 10.01 dBi

6G UNII-7 G1 = 10 dBi; G2 = 10 dBi; G3 = 10 dBi; G4 = 10 dBi

2.4G DG = 11.47 dBi

5G UNII-1 DG = 13.02 dBi

5G UNII-2A DG = 13.02 dBi

6G UNII-7 DG = 13.01 dBi



Note 3: The above information was declared by manufacturer.

Note 4: The EUT has seven antennas.

The ant. 2 is BLE array (Beam 1-Beam 8/Omni).

The ant. 3 is BLE array (Beam 9).

Beam 1-Beam 8, Omni, and Beam 9 can't operate simultaneously.

Note 5: The ant. 1 is the cross-polarized antenna.

The ant. 1 (6MPC-WHT connector and 4MPC connector): Vertical*2, Horizontal*2; the array gain only add $10\log(2)$.

The ant. 1 (6MPC-BLK connector) for radio 1: Vertical*2, Horizontal*2; the array gain only add $10\log(2)$.

The ant. 1 (6MPC-BLK connector) for radio 4: Vertical*1, Horizontal*1; it doesn't need to evaluate array gain.

Note 6: Radio 1-3: Maximum Directional Gain following KDB662911 D01.

For Radio 1:

For 6GHz (UNII 5 or UNII 7) IEEE 802.11ax/be mode (4TX/4RX)

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

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

For Radio 2:

For 5GHz (UNII 1-2A or UNII 2C-3) IEEE 802.11a/n/ac/ax/be mode (4TX/4RX)

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

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

For Radio 3:

For 2.4GHz IEEE 802.11b/g/n/VHT/ax/be mode (4TX/4RX)

For 5GHz (UNII 1-2A) IEEE 802.11a/n/ac/ax/be mode (4TX/4RX)

For 6GHz (UNII 7) IEEE 802.11ax/be mode (4TX/4RX)

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

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

For Radio 4(Scanning radio):

For 2.4GHz IEEE 802.11b/g/n/VHT/ax/be mode (2TX/2RX)

For 5GHz (UNII 1-3) IEEE 802.11a/n/ac/ax/be mode (2TX/2RX)

For 6GHz (UNII 5, 7) IEEE 802.11ax/be mode (2TX/2RX)

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

Port 1 and Port 2 could transmit/receive simultaneously.

For Radio 5:

For Bluetooth and 802.15.4(Zigbee, Thread) mode (1TX/1RX)

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

For Radio 6:

For UWB mode (2TX/4RX):

For 2TX

Port 1 and Port 2 can be use as transmitting antenna.

Port 1 and Port 2 could transmit simultaneously.

For 4RX

Port 1, Port 2, Port 3 and Port 4 can be used as receiving antennas.

Port 1, Port 2, Port 3 and Port 4 could receive simultaneously.

For Radio 7:

For GPS (1RX)

Only Port 1 can be used as receiving antenna.

**1.1.4 Mode Test Duty Cycle**

For Full_RU:

For EUT 1:

For Radio 1:

Mode	DC	DCF (dB)	T (s)	VBW (Hz)_1/T
802.11be EHT20_Nss 1,(M0)	0.917	0.38	330u	10k
802.11be EHT40_Nss 1,(M0)	0.91	0.41	307.5u	10k
802.11be EHT80_Nss 1,(M0)	0.907	0.42	297.5u	10k
802.11be EHT160_Nss 1,(M0)	0.906	0.43	295u	10k
802.11be EHT320_Nss 1,(M0)	0.907	0.42	295u	10k
802.11be EHT20-BF_Nss 1,(M0)	0.917	0.38	330u	10k
802.11be EHT40-BF_Nss 1,(M0)	0.91	0.41	307.5u	10k
802.11be EHT80-BF_Nss 1,(M0)	0.907	0.42	297.5u	10k
802.11be EHT160-BF_Nss 1,(M0)	0.906	0.43	295u	10k
802.11be EHT320-BF_Nss 1,(M0)	0.907	0.42	295u	10k

For Radio 3:

Mode	DC	DCF (dB)	T (s)	VBW (Hz)_1/T
802.11be EHT20_Nss 1,(M0)	0.909	0.41	322.5u	10k
802.11be EHT40_Nss 1,(M0)	0.904	0.44	305u	10k
802.11be EHT80_Nss 1,(M0)	0.904	0.44	295u	10k
802.11be EHT160_Nss 1,(M0)	0.898	0.47	291.25u	10k
802.11be EHT320_Nss 1,(M0)	0.905	0.43	291.25u	10k
802.11be EHT20-BF_Nss 1,(M0)	0.909	0.41	322.5u	10k
802.11be EHT40-BF_Nss 1,(M0)	0.904	0.44	305u	10k
802.11be EHT80-BF_Nss 1,(M0)	0.904	0.44	295u	10k
802.11be EHT160-BF_Nss 1,(M0)	0.898	0.47	291.25u	10k
802.11be EHT320-BF_Nss 1,(M0)	0.905	0.43	291.25u	10k

For Scanning Radio 4:

Mode	DC	DCF (dB)	T (s)	VBW (Hz)_1/T
802.11be EHT20_Nss 1,(M0)	0.907	0.42	321.875u	10k
802.11be EHT40_Nss 1,(M0)	0.902	0.45	304.219u	10k
802.11be EHT80_Nss 1,(M0)	0.903	0.44	294.563u	10k
802.11be EHT160_Nss 1,(M0)	0.903	0.44	290.625u	10k
802.11be EHT320_Nss 1,(M0)	0.902	0.45	291.25u	10k

**For EUT 2:****For Radio 1:**

Mode	DC	DCF (dB)	T (s)	VBW (Hz)_1/T
802.11be EHT20_Nss 1,(M0)	0.907	0.42	321.875u	10k
802.11be EHT40_Nss 1,(M0)	0.902	0.45	304.219u	10k
802.11be EHT80_Nss 1,(M0)	0.902	0.45	294.688u	10k
802.11be EHT160_Nss 1,(M0)	0.897	0.47	290.625u	10k
802.11be EHT320_Nss 1,(M0)	0.897	0.47	290.625u	10k
802.11be EHT20-BF_Nss 1,(M0)	0.907	0.42	321.875u	10k
802.11be EHT40-BF_Nss 1,(M0)	0.902	0.45	304.219u	10k
802.11be EHT80-BF_Nss 1,(M0)	0.902	0.45	294.688u	10k
802.11be EHT160-BF_Nss 1,(M0)	0.897	0.47	290.625u	10k
802.11be EHT320-BF_Nss 1,(M0)	0.897	0.47	290.625u	10k

For Radio 3:

Mode	DC	DCF (dB)	T (s)	VBW (Hz)_1/T
802.11be EHT20_Nss 1,(M0)	0.913	0.4	325u	10k
802.11be EHT40_Nss 1,(M0)	0.911	0.4	307.5u	10k
802.11be EHT80_Nss 1,(M0)	0.908	0.42	297.5u	10k
802.11be EHT160_Nss 1,(M0)	0.907	0.42	295u	10k
802.11be EHT320_Nss 1,(M0)	0.906	0.43	295u	10k
802.11be EHT20-BF_Nss 1,(M0)	0.913	0.4	325u	10k
802.11be EHT40-BF_Nss 1,(M0)	0.911	0.4	307.5u	10k
802.11be EHT80-BF_Nss 1,(M0)	0.908	0.42	297.5u	10k
802.11be EHT160-BF_Nss 1,(M0)	0.907	0.42	295u	10k
802.11be EHT320-BF_Nss 1,(M0)	0.906	0.43	295u	10k

For Scanning Radio 4:

Mode	DC	DCF (dB)	T (s)	VBW (Hz)_1/T
802.11be EHT20	0.907	0.42	321.875u	10k
802.11be EHT40	0.902	0.45	304.219u	10k
802.11be EHT80	0.903	0.44	294.688u	10k
802.11be EHT160	0.903	0.44	290.625u	10k
802.11be EHT320	0.897	0.47	290.625u	10k

For Multi_RU:**For EUT 1:****For Radio 1:**

Mode	DC	DCF (dB)	T (s)	VBW (Hz)_1/T
802.11be EHT80_Nss 1,(M0),RU484+RU242	0.968	0.14	998.594u	3k
802.11be EHT160_Nss 1,(M0),RU996+RU484+RU242	0.968	0.14	998.594u	3k
802.11be EHT160_Nss 1,(M0),RU996+RU484	0.968	0.14	998.594u	3k
802.11be EHT320_Nss 1,(M0),3xRU996+RU484	0.969	0.14	998.75u	3k
802.11be EHT320_Nss 1,(M0),3xRU996	0.969	0.14	998.75u	3k
802.11be EHT320_Nss 1,(M0),2xRU996+RU484	0.969	0.14	998.75u	3k

**For Radio 3:**

Mode	DC	DCF (dB)	T (s)	VBW (Hz)_1/T
802.11be EHT80_Nss 1,(M0),RU484+RU242	0.97	0.13	999.375u	2k
802.11be EHT160_Nss 1,(M0),RU996+RU484+RU242	0.97	0.13	999.375u	2k
802.11be EHT160_Nss 1,(M0),RU996+RU484	0.97	0.13	999.375u	2k
802.11be EHT320_Nss 1,(M0),3xRU996+RU484	0.969	0.14	999.375u	2k
802.11be EHT320_Nss 1,(M0),3xRU996	0.97	0.13	999.375u	2k
802.11be EHT320_Nss 1,(M0),2xRU996+RU484	0.97	0.13	999.375u	2k

For EUT 1:**For Radio 1:**

Mode	DC	DCF (dB)	T (s)	VBW (Hz)_1/T
802.11be EHT80_Nss 1,(M0),RU484+RU242	0.968	0.14	998.75u	3k
802.11be EHT160_Nss 1,(M0),RU996+RU484+RU242	0.972	0.12	998.75u	3k
802.11be EHT160_Nss 1,(M0),RU996+RU484	0.972	0.12	998.75u	3k
802.11be EHT320_Nss 1,(M0),3xRU996+RU484	0.971	0.13	998.75u	3k
802.11be EHT320_Nss 1,(M0),3xRU996	0.969	0.14	998.75u	3k
802.11be EHT320_Nss 1,(M0),2xRU996+RU484	0.972	0.12	998.75u	3k

For Radio 3:

Mode	DC	DCF (dB)	T (s)	VBW (Hz)_1/T
802.11be EHT80_Nss1,(MCS0),RU484+RU242	0.973	0.12	1.003m	1k
802.11be EHT160_Nss1,(MCS0),RU996+RU484+RU242	0.972	0.12	1.003m	1k
802.11be EHT160_Nss1,(MCS0),RU996+RU484	0.973	0.12	1.003m	1k
802.11be EHT320_Nss1,(MCS0),3xRU996+RU484	0.973	0.12	1.003m	1k
802.11be EHT320_Nss1,(MCS0),3xRU996	0.973	0.12	1.003m	1k
802.11be EHT320_Nss1,(MCS0),2xRU996+RU484	0.972	0.12	1.003m	1k

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 Radio 1 (ax/be in 6GHz), Radio 2 (n/ac/ax/be in 5GHz), and Radio 3 (n/VHT/ax/be in 2.4GHz, n/ac/ax/be in 5GHz, and ax/be in 6GHz).	
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 for Radio 1, 3	
	☐ Supported Dynamic Puncturing	
	☒ Unsupported for Scanning Radio 4	
Support RU	☒ Full RU for Radio 1, 3 and Scanning Radio 4	☒ Partial RU for Radio 1, 3
Test Software Version	accessMtool 3.0.0.8	
Software / Firmware Version for CBP	ruby-fcc-master-dfs-0.16.22	

Note: The above information was declared by manufacturer.

1.1.6 Table for Multiple Listing

EUT	Model Name	WLAN 5GHz UNII 4	WLAN 6GHz	Wi-Fi antenna	UWB antenna (PDoA)	UWB antenna (TWR)	802.15.4 (Zigbee, Thread) antenna	Bluetooth antenna	GPS antenna	Description
1	AP47	Support	Support	Internal Antenna	The same	AP47/ AP47E the same	AP47/ AP47E the same	The same	AP47/ AP47E the same	-
2	AP47D	Support	Support	Internal Antenna	The same	Not the same	Not the same	The same	Not the same	The difference with AP47 is only in Wi-Fi, UWB(TWR), 802.15.4(Zigbee, Thread) and GPS antenna.
3	AP47E	Non Support	Non Support	External Antenna	The same	AP47/ AP47E the same	AP47/ AP47E the same	The same	AP47/ AP47E the same	-

Note1: All models are identical to each other in all aspects except for the listing table.

Note2: The above information was declared by manufacturer.

1.1.7 Table for Radio Function

For EUT 1 and EUT 2:

Radio \ Function	WLAN 2.4GHz	WLAN 5GHz	WLAN 6GHz	Bluetooth	802.15.4 (Zigbee, Thread)	UWB	GPS
1	-	-	V (UNII 5 or UNII 6-8)	-	-	-	-
2	-	V (UNII 1-2A or UNII2C-4)	-	-	-	-	-
3	V	V (UNII 1-2A)	V (UNII 7-8)	-	-	-	-
4 (Scanning radio)	V	V (UNII 1-4)	V (UNII 5-8)	-	-	-	-
5	-	-	-	V	V	-	-
6	-	-	-	-	-	V	-
7	-	-	-	-	-	-	V

Note1: The above information was declared by manufacturer.

Note2: For WLAN 2.4GHz: The Radio 3 and Radio 4(Scanning radio) can't operate at the same frequency simultaneously.

For WLAN 5GHz: The Radio 2, 3 and Radio 4(Scanning radio) can't operate at the same frequency simultaneously.

For WLAN 6GHz: The Radio 1, 3 and Radio 4(Scanning radio) can't operate at the same frequency simultaneously.

For EUT 3:

Radio \ Function	WLAN 2.4GHz	WLAN 5GHz	WLAN 6GHz	Bluetooth	802.15.4 (Zigbee, Thread)	UWB	GPS
1	-	-	-	-	-	-	-
2	-	V (UNII 1-2A or UNII2C-3)	-	-	-	-	-
3	V	V (UNII 1-2A)	-	-	-	-	-
4 (Scanning radio)	V	V (UNII 1-3)	-	-	-	-	-
5	-	-	-	V	V	-	-
6	-	-	-	-	-	V	-
7	-	-	-	-	-	-	V

Note1: The above information was declared by manufacturer.

Note2: The Radio 1 is not enabled.

Note3: For WLAN 2.4GHz: The Radio 3 and Radio 4(Scanning radio) can't operate at the same frequency simultaneously.

For WLAN 5GHz: The Radio 2, 3 and Radio 4(Scanning radio) can't operate at the same frequency simultaneously.

**1.1.8 Table for EUT Operation Function**

Mode	Operation Function
1	EUT 1_R1:6GHz UNII 5+R2:5GHz UNII 1,2A+R3:2.4GHz+ R4:2.4GHz+R5:Bluetooth+R6:UWB
2	EUT 1_R1:6GHz UNII 5+R2:5GHz UNII 1,2A+R3:2.4GHz+R4:5GHz UNII 1-4+R5:Bluetooth+R6:UWB
3	EUT 1_R1:6GHz UNII 5+R2:5GHz UNII 1,2A+R3:2.4GHz+R4:6GHz UNII 5-8+R5:Bluetooth+R6:UWB
4	EUT 1_R1:6GHz UNII 5+R2:5GHz UNII 2C-4+R3:2.4GHz+R4:2.4GHz+R5:Bluetooth+R6:UWB
5	EUT 1_R1:6GHz UNII 5+R2:5GHz UNII 2C-4+R3:2.4GHz+R4:5GHz UNII 1-4+R5:Bluetooth+R6:UWB
6	EUT 1_R1:6GHz UNII 5+R2:5GHz UNII 2C-4+R3:2.4GHz+R4:6GHz UNII 5-8+R5:Bluetooth+R6:UWB
7	EUT 1_R1:6GHz UNII 5+R2:5GHz UNII 1,2A+R3:2.4GHz+R4:2.4GHz+R5:Zigbee+R6:UWB
8	EUT 1_R1:6GHz UNII 5+R2:5GHz UNII 1,2A+R3:2.4GHz+R4:5GHz UNII 1-4+R5:Zigbee+R6:UWB
9	EUT 1_R1:6GHz UNII 5+R2:5GHz UNII 1,2A+R3:2.4GHz+R4:6GHz UNII 5-8+R5:Zigbee+R6:UWB
10	EUT 1_R1:6GHz UNII 5+R2:5GHz UNII 2C-4+R3:2.4GHz+R4:2.4GHz+R5:Zigbee+R6:UWB
11	EUT 1_R1:6GHz UNII 5+R2:5GHz UNII 2C-4+R3:2.4GHz+R4:5GHz UNII 1-4+R5:Zigbee+R6:UWB
12	EUT 1_R1:6GHz UNII 5+R2:5GHz UNII 2C-4+R3:2.4GHz+R4:6GHz UNII 5-8+R5:Zigbee+R6:UWB
13	EUT 1_R1:6GHz UNII 6-8+R2:5GHz UNII 1,2A+R3:2.4GHz+ R4:2.4GHz+ R5:Bluetooth+R6:UWB
14	EUT 1_R1:6GHz UNII 6-8+R2:5GHz UNII 1,2A+R3:2.4GHz+R4:5GHz UNII 1-4+R5:Bluetooth+R6:UWB
15	EUT 1_R1:6GHz UNII 6-8+R2:5GHz UNII 1,2A+R3:2.4GHz+R4:6GHz UNII 5-8+R5:Bluetooth+R6:UWB
16	EUT 1_R1:6GHz UNII 6-8+R2:5GHz UNII 2C-4+R3:2.4GHz+ R4:2.4GHz+ R5:Bluetooth+R6:UWB
17	EUT 1_R1:6GHz UNII 6-8+R2:5GHz UNII 2C-4+R3:2.4GHz+R4:5GHz UNII 1-4+R5:Bluetooth+R6:UWB
18	EUT 1_R1:6GHz UNII 6-8+R2:5GHz UNII 2C-4+R3:2.4GHz+R4:6GHz UNII 5-8+R5:Bluetooth+R6:UWB
19	EUT 1_R1:6GHz UNII 6-8+R2:5GHz UNII 1,2A+R3:2.4GHz+ R4:2.4GHz+R5:Zigbee+R6:UWB
20	EUT 1_R1:6GHz UNII 6-8+R2:5GHz UNII 1,2A+R3:2.4GHz+R4:5GHz UNII 1-4+R5:Zigbee+R6:UWB
21	EUT 1_R1:6GHz UNII 6-8+R2:5GHz UNII 1,2A+R3:2.4GHz+R4:6GHz UNII 5-8+R5:Zigbee+R6:UWB
22	EUT 1_R1:6GHz UNII 6-8+R2:5GHz UNII 2C-4+R3:2.4GHz+ R4:2.4GHz+R5:Zigbee+R6:UWB
23	EUT 1_R1:6GHz UNII 6-8+R2:5GHz UNII 2C-4+R3:2.4GHz+R4:5GHz UNII 1-4+R5:Zigbee+R6:UWB
24	EUT 1_R1:6GHz UNII 6-8+R2:5GHz UNII 2C-4+R3:2.4GHz+R4:6GHz UNII 5-8+R5:Zigbee+R6:UWB
25	EUT 1_R1:6GHz UNII 5+R2:5GHz UNII 2C-4+R3:5GHz UNII 1,2A+ R4:2.4GHz+R5:Bluetooth+R6:UWB
26	EUT 1_R1:6GHz UNII 5+R2:5GHz UNII 2C-4+R3:5GHz UNII 1,2A+R4:5GHz UNII 1-4+R5:Bluetooth+R6:UWB
27	EUT 1_R1:6GHz UNII 5+R2:5GHz UNII 2C-4+R3:5GHz UNII 1,2A+R4:6GHz UNII 5-8+R5:Bluetooth+R6:UWB
28	EUT 1_R1:6GHz UNII 5+R2:5GHz UNII 2C-4+R3:5GHz UNII 1,2A+ R4:2.4GHz+R5:Zigbee+R6:UWB
29	EUT 1_R1:6GHz UNII 5+R2:5GHz UNII 2C-4+R3:5GHz UNII 1,2A+R4:5GHz UNII 1-4+R5:Zigbee+R6:UWB
30	EUT 1_R1:6GHz UNII 5+R2:5GHz UNII 2C-4+R3:5GHz UNII 1,2A+R4:6GHz UNII 5-8+R5:Zigbee+R6:UWB
31	EUT 1_R1:6GHz UNII 6-8+R2:5GHz UNII 2C-4+R3:5GHz UNII 1,2A+ R4:2.4GHz+R5:Bluetooth+R6:UWB
32	EUT 1_R1:6GHz UNII 6-8+R2:5GHz UNII 2C-4+R3:5GHz UNII 1,2A+R4:5GHz UNII 1-4+R5:Bluetooth+R6:UWB
33	EUT 1_R1:6GHz UNII 6-8+R2:5GHz UNII 2C-4+R3:5GHz UNII 1,2A+R4:6GHz UNII 5-8+R5:Bluetooth+R6:UWB
34	EUT 1_R1:6GHz UNII 6-8+R2:5GHz UNII 2C-4+R3:5GHz UNII 1,2A+ R4:2.4GHz+R5:Zigbee+R6:UWB
35	EUT 1_R1:6GHz UNII 6-8+R2:5GHz UNII 2C-4+R3:5GHz UNII 1,2A+R4:5GHz UNII 1-4+R5:Zigbee+R6:UWB
36	EUT 1_R1:6GHz UNII 6-8+R2:5GHz UNII 2C-4+R3:5GHz UNII 1,2A+R4:6GHz UNII 5-8+R5:Zigbee+R6:UWB
37	EUT 1_R1:6GHz UNII 5+R2:5GHz UNII 1,2A+R3:6GHz UNII 7,8+ R4:2.4GHz+R5:Bluetooth+R6:UWB
38	EUT 1_R1:6GHz UNII 5+R2:5GHz UNII 1,2A+R3:6GHz UNII 7,8+R4:5GHz UNII 1-4+R5:Bluetooth+R6:UWB
39	EUT 1_R1:6GHz UNII 5+R2:5GHz UNII 1,2A+R3:6GHz UNII 7,8+R4:6GHz UNII 5-8+R5:Bluetooth+R6:UWB



40	EUT 1_R1:6GHz UNII 5+R2:5GHz UNII 1,2A+R3:6GHz UNII 7,8+ R4:2.4GHz+R5:Zigbee+R6:UWB
41	EUT 1_R1:6GHz UNII 5+R2:5GHz UNII 1,2A+R3:6GHz UNII 7,8+R4:5GHz UNII 1-4+R5:Zigbee+R6:UWB
42	EUT 1_R1:6GHz UNII 5+R2:5GHz UNII 1,2A+R3:6GHz UNII 7,8+R4:6GHz UNII 5-8+R5:Zigbee+R6:UWB
43	EUT 1_R1:6GHz UNII 5+R2:5GHz UNII 2C-4+R3:6GHz UNII 7,8+ R4:2.4GHz+R5:Bluetooth+R6:UWB
44	EUT 1_R1:6GHz UNII 5+R2:5GHz UNII 2C-4+R3:6GHz UNII 7,8+R4:5GHz UNII 1-4+R5:Bluetooth+R6:UWB
45	EUT 1_R1:6GHz UNII 5+R2:5GHz UNII 2C-4+R3:6GHz UNII 7,8+R4:6GHz UNII 5-8+R5:Bluetooth+R6:UWB
46	EUT 1_R1:6GHz UNII 5+R2:5GHz UNII 2C-4+R3:6GHz UNII 7,8+ R4:2.4GHz+R5:Zigbee+R6:UWB
47	EUT 1_R1:6GHz UNII 5+R2:5GHz UNII 2C-4+R3:6GHz UNII 7,8+R4:5GHz UNII 1-4+R5:Zigbee+R6:UWB
48	EUT 1_R1:6GHz UNII 5+R2:5GHz UNII 2C-4+R3:6GHz UNII 7,8+R4:6GHz UNII 5-8+R5:Zigbee+R6:UWB
49	EUT 2_R1:6GHz UNII 5+R2:5GHz UNII 1,2A+R3:2.4GHz+ R4:2.4GHz+R5:Bluetooth+R6:UWB
50	EUT 2_R1:6GHz UNII 5+R2:5GHz UNII 1,2A+R3:2.4GHz+R4:5GHz UNII 1-4+R5:Bluetooth+R6:UWB
51	EUT 2_R1:6GHz UNII 5+R2:5GHz UNII 1,2A+R3:2.4GHz+R4:6GHz UNII 5-8+R5:Bluetooth+R6:UWB
52	EUT 2_R1:6GHz UNII 5+R2:5GHz UNII 2C-4+R3:2.4GHz+R4:2.4GHz+R5:Bluetooth+R6:UWB
53	EUT 2_R1:6GHz UNII 5+R2:5GHz UNII 2C-4+R3:2.4GHz+R4:5GHz UNII 1-4+R5:Bluetooth+R6:UWB
54	EUT 2_R1:6GHz UNII 5+R2:5GHz UNII 2C-4+R3:2.4GHz+R4:6GHz UNII 5-8+R5:Bluetooth+R6:UWB
55	EUT 2_R1:6GHz UNII 5+R2:5GHz UNII 1,2A+R3:2.4GHz+R4:2.4GHz+R5:Zigbee+R6:UWB
56	EUT 2_R1:6GHz UNII 5+R2:5GHz UNII 1,2A+R3:2.4GHz+R4:5GHz UNII 1-4+R5:Zigbee+R6:UWB
57	EUT 2_R1:6GHz UNII 5+R2:5GHz UNII 1,2A+R3:2.4GHz+R4:6GHz UNII 5-8+R5:Zigbee+R6:UWB
58	EUT 2_R1:6GHz UNII 5+R2:5GHz UNII 2C-4+R3:2.4GHz+R4:2.4GHz+R5:Zigbee+R6:UWB
59	EUT 2_R1:6GHz UNII 5+R2:5GHz UNII 2C-4+R3:2.4GHz+R4:5GHz UNII 1-4+R5:Zigbee+R6:UWB
60	EUT 2_R1:6GHz UNII 5+R2:5GHz UNII 2C-4+R3:2.4GHz+R4:6GHz UNII 5-8+R5:Zigbee+R6:UWB
61	EUT 2_R1:6GHz UNII 6-8+R2:5GHz UNII 1,2A+R3:2.4GHz+ R4:2.4GHz+ R5:Bluetooth+R6:UWB
62	EUT 2_R1:6GHz UNII 6-8+R2:5GHz UNII 1,2A+R3:2.4GHz+R4:5GHz UNII 1-4+R5:Bluetooth+R6:UWB
63	EUT 2_R1:6GHz UNII 6-8+R2:5GHz UNII 1,2A+R3:2.4GHz+R4:6GHz UNII 5-8+R5:Bluetooth+R6:UWB
64	EUT 2_R1:6GHz UNII 6-8+R2:5GHz UNII 2C-4+R3:2.4GHz+ R4:2.4GHz+ R5:Bluetooth+R6:UWB
65	EUT 2_R1:6GHz UNII 6-8+R2:5GHz UNII 2C-4+R3:2.4GHz+R4:5GHz UNII 1-4+R5:Bluetooth+R6:UWB
66	EUT 2_R1:6GHz UNII 6-8+R2:5GHz UNII 2C-4+R3:2.4GHz+R4:6GHz UNII 5-8+R5:Bluetooth+R6:UWB
67	EUT 2_R1:6GHz UNII 6-8+R2:5GHz UNII 1,2A+R3:2.4GHz+ R4:2.4GHz+R5:Zigbee+R6:UWB
68	EUT 2_R1:6GHz UNII 6-8+R2:5GHz UNII 1,2A+R3:2.4GHz+R4:5GHz UNII 1-4+R5:Zigbee+R6:UWB
69	EUT 2_R1:6GHz UNII 6-8+R2:5GHz UNII 1,2A+R3:2.4GHz+R4:6GHz UNII 5-8+R5:Zigbee+R6:UWB
70	EUT 2_R1:6GHz UNII 6-8+R2:5GHz UNII 2C-4+R3:2.4GHz+ R4:2.4GHz+R5:Zigbee+R6:UWB
71	EUT 2_R1:6GHz UNII 6-8+R2:5GHz UNII 2C-4+R3:2.4GHz+R4:5GHz UNII 1-4+R5:Zigbee+R6:UWB
72	EUT 2_R1:6GHz UNII 6-8+R2:5GHz UNII 2C-4+R3:2.4GHz+R4:6GHz UNII 5-8+R5:Zigbee+R6:UWB
73	EUT 2_R1:6GHz UNII 5+R2:5GHz UNII 2C-4+R3:5GHz UNII 1,2A+ R4:2.4GHz+R5:Bluetooth+R6:UWB
74	EUT 2_R1:6GHz UNII 5+R2:5GHz UNII 2C-4+R3:5GHz UNII 1,2A+R4:5GHz UNII 1-4+R5:Bluetooth+R6:UWB
75	EUT 2_R1:6GHz UNII 5+R2:5GHz UNII 2C-4+R3:5GHz UNII 1,2A+R4:6GHz UNII 5-8+R5:Bluetooth+R6:UWB
76	EUT 2_R1:6GHz UNII 5+R2:5GHz UNII 2C-4+R3:5GHz UNII 1,2A+ R4:2.4GHz+R5:Zigbee+R6:UWB
77	EUT 2_R1:6GHz UNII 5+R2:5GHz UNII 2C-4+R3:5GHz UNII 1,2A+R4:5GHz UNII 1-4+R5:Zigbee+R6:UWB
78	EUT 2_R1:6GHz UNII 5+R2:5GHz UNII 2C-4+R3:5GHz UNII 1,2A+R4:6GHz UNII 5-8+R5:Zigbee+R6:UWB
79	EUT 2_R1:6GHz UNII 6-8+R2:5GHz UNII 2C-4+R3:5GHz UNII 1,2A+ R4:2.4GHz+R5:Bluetooth+R6:UWB
80	EUT 2_R1:6GHz UNII 6-8+R2:5GHz UNII 2C-4+R3:5GHz UNII 1,2A+R4:5GHz UNII 1-4+R5:Bluetooth+R6:UWB
81	EUT 2_R1:6GHz UNII 6-8+R2:5GHz UNII 2C-4+R3:5GHz UNII 1,2A+R4:6GHz UNII 5-8+R5:Bluetooth+R6:UWB
82	EUT 2_R1:6GHz UNII 6-8+R2:5GHz UNII 2C-4+R3:5GHz UNII 1,2A+ R4:2.4GHz+R5:Zigbee+R6:UWB



83	EUT 2_R1:6GHz UNII 6-8+R2:5GHz UNII 2C-4+R3:5GHz UNII 1,2A+R4:5GHz UNII 1-4+R5:Zigbee+R6:UWB
84	EUT 2_R1:6GHz UNII 6-8+R2:5GHz UNII 2C-4+R3:5GHz UNII 1,2A+R4:6GHz UNII 5-8+R5:Zigbee+R6:UWB
85	EUT 2_R1:6GHz UNII 5+R2:5GHz UNII 1,2A+R3:6GHz UNII 7,8+ R4:2.4GHz+R5:Bluetooth+R6:UWB
86	EUT 2_R1:6GHz UNII 5+R2:5GHz UNII 1,2A+R3:6GHz UNII 7,8+R4:5GHz UNII 1-4+R5:Bluetooth+R6:UWB
87	EUT 2_R1:6GHz UNII 5+R2:5GHz UNII 1,2A+R3:6GHz UNII 7,8+R4:6GHz UNII 5-8+R5:Bluetooth+R6:UWB
88	EUT 2_R1:6GHz UNII 5+R2:5GHz UNII 1,2A+R3:6GHz UNII 7,8+ R4:2.4GHz+R5:Zigbee+R6:UWB
89	EUT 2_R1:6GHz UNII 5+R2:5GHz UNII 1,2A+R3:6GHz UNII 7,8+R4:5GHz UNII 1-4+R5:Zigbee+R6:UWB
90	EUT 2_R1:6GHz UNII 5+R2:5GHz UNII 1,2A+R3:6GHz UNII 7,8+R4:6GHz UNII 5-8+R5:Zigbee+R6:UWB
91	EUT 2_R1:6GHz UNII 5+R2:5GHz UNII 2C-4+R3:6GHz UNII 7,8+ R4:2.4GHz+R5:Bluetooth+R6:UWB
92	EUT 2_R1:6GHz UNII 5+R2:5GHz UNII 2C-4+R3:6GHz UNII 7,8+R4:5GHz UNII 1-4+R5:Bluetooth+R6:UWB
93	EUT 2_R1:6GHz UNII 5+R2:5GHz UNII 2C-4+R3:6GHz UNII 7,8+R4:6GHz UNII 5-8+R5:Bluetooth+R6:UWB
94	EUT 2_R1:6GHz UNII 5+R2:5GHz UNII 2C-4+R3:6GHz UNII 7,8+ R4:2.4GHz+R5:Zigbee+R6:UWB
95	EUT 2_R1:6GHz UNII 5+R2:5GHz UNII 2C-4+R3:6GHz UNII 7,8+R4:5GHz UNII 1-4+R5:Zigbee+R6:UWB
96	EUT 2_R1:6GHz UNII 5+R2:5GHz UNII 2C-4+R3:6GHz UNII 7,8+R4:6GHz UNII 5-8+R5:Zigbee+R6:UWB
97	EUT 3_R2:5GHz UNII 1,2A+R3:2.4GHz+R4:2.4GHz+R5:Bluetooth+R6:UWB
98	EUT 3_R2:5GHz UNII 1,2A+R3:2.4GHz+R4:5GHz UNII 1-3+R5:Bluetooth+R6:UWB
99	EUT 3_R2:5GHz UNII 2C-3+R3:2.4GHz+R4:2.4GHz+R5:Bluetooth+R6:UWB
100	EUT 3_R2:5GHz UNII 2C-3+R3:2.4GHz+R4:5GHz UNII 1-3+R5:Bluetooth+R6:UWB
101	EUT 3_R2:5GHz UNII 1,2A+R3:2.4GHz+R4:2.4GHz+R5:Zigbee+R6:UWB
102	EUT 3_R2:5GHz UNII 1,2A+R3:2.4GHz+R4:5GHz UNII 1-3+R5:Zigbee+R6:UWB
103	EUT 3_R2:5GHz UNII 2C-3+R3:2.4GHz+R4:2.4GHz+R5:Zigbee+R6:UWB
104	EUT 3_R2:5GHz UNII 2C-3+R3:2.4GHz+R4:5GHz UNII 1-3+R5:Zigbee+R6:UWB
105	EUT 3_R2:5GHz UNII 2C-3+R3:5GHz UNII 1,2A+R4:2.4GHz+R5:Bluetooth+R6:UWB
106	EUT 3_R2:5GHz UNII 2C-3+R3:5GHz UNII 1,2A+R4:5GHz UNII 1-3+R5:Bluetooth+R6:UWB
107	EUT 3_R2:5GHz UNII 2C-3+R3:5GHz UNII 1,2A+R4:2.4GHz+R5:Zigbee+R6:UWB
108	EUT 3_R2:5GHz UNII 2C-3+R3:5GHz UNII 1,2A+R4:5GHz UNII 1-3+R5:Zigbee+R6:UWB

Note1: R means Radio.

Note2: 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 662911 D03 v01
- ♦ FCC KDB 412172 D01 v01r01
- ♦ FCC KDB 414788 D01 v01r01

1.3 Testing Location Information

Testing Location Information				
Test Lab. : Sporton International Inc. Hsinchu Laboratory				
Hsinchu ADD: No.8, Ln. 724, Bo'ai St., Zhubei City, Hsinchu County 302010, Taiwan (R.O.C.)				
(TAF: 3787) 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 (For EUT 1)	TH02-CB	Gino Huang	22.7~24.6 / 61~65	Oct. 23, 2024~Jan. 14, 2025
RF Conducted (For EUT 2)	TH02-CB	Gino Huang	23.3~24.2 / 62~64	Oct. 22, 2024~Jan. 15, 2025
Radiated (Below 1GHz)	03CH05-CB	Gordon Hung	21.9-22.4 / 60-62	Jan. 16, 2025
Radiated (Above 1GHz_For EUT 1_Full RU)	03CH01-CB	Viola Huang	22.1-23.1 / 60-62	Oct. 16, 2024~Nov. 23, 2024 / Nov. 25, 2024~Jan. 15, 2025
	03CH03-CB		22.2-22.6 / 59-61	
	03CH04-CB		22.7-23.8 / 58-60	
	03CH06-CB		22.5-22.9 / 58-60	
Radiated (Above 1GHz_For EUT 1_Multi_RU)	03CH04-CB	Viola Huang	22.7-23.8 / 58-60	Nov. 14, 2024~Nov. 23, 2024 / Nov. 25, 2024~Jan. 10, 2025
Radiated (Above 1GHz_For EUT 2_Full RU)	03CH02-CB	Viola Huang	22-23 / 61-63	Oct. 16, 2024~Nov. 23, 2024 / Nov. 25, 2024~Jan. 15, 2025
	03CH03-CB		22.2-22.6 / 59-61	
	03CH04-CB		22.7-23.8 / 58-60	
	03CH05-CB		21.9-22.4 / 60-62	
Radiated (Above 1GHz_For EUT 2_Multi_RU)	03CH03-CB	Viola Huang	22.2-22.6 / 59-61	Oct. 16, 2024~Nov. 23, 2024 / Nov. 25, 2024~Jan. 15, 2025
	03CH04-CB		22.7-23.8 / 58-60	
AC Conduction	CO02-CB	Gray Lee	23~24 / 52~53	Dec. 31, 2024~Jan. 17, 2025
RF Conducted (Contention-Based Protocol test)	DF02-CB	Simmon Cheng	23.2~24.9 / 61~64	Dec. 17, 2024~Jan. 06, 2025



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

For Full_RU:

For EUT 1:

For Radio 1:

Mode
802.11be EHT20_Nss1,(MCS0)_4TX
5955MHz
6195MHz
6415MHz
6435MHz
6475MHz
6515MHz
6535MHz
6695MHz
6875MHz
6895MHz
6995MHz
7095MHz
802.11be EHT40_Nss1,(MCS0)_4TX
5965MHz
6205MHz
6405MHz
6445MHz
6485MHz
6525MHz
6565MHz
6685MHz
6885MHz
6925MHz
7005MHz
7085MHz
802.11be EHT80_Nss1,(MCS0)_4TX
5985MHz
6225MHz
6385MHz
6465MHz
6545MHz
6625MHz
6705MHz
6785MHz
6865MHz
6945MHz
7025MHz
802.11be EHT160_Nss1,(MCS0)_4TX
6025MHz



6185MHz
6345MHz
6505MHz
6665MHz
6825MHz
6985MHz
802.11be EHT320_Nss1,(MCS0)_4TX
6105MHz
6265MHz
6585MHz
6745MHz
6905MHz
802.11be EHT20-BF_Nss1,(MCS0)_4TX
5955MHz
6195MHz
6415MHz
6435MHz
6475MHz
6515MHz
6535MHz
6695MHz
6875MHz
6895MHz
6995MHz
7095MHz
802.11be EHT40-BF_Nss1,(MCS0)_4TX
5965MHz
6205MHz
6405MHz
6445MHz
6485MHz
6525MHz
6565MHz
6685MHz
6885MHz
6925MHz
7005MHz
7085MHz
802.11be EHT80-BF_Nss1,(MCS0)_4TX
5985MHz
6225MHz
6385MHz
6465MHz
6545MHz
6625MHz
6705MHz
6785MHz
6865MHz
6945MHz



7025MHz
802.11be EHT160-BF_Nss1,(MCS0)_4TX
6025MHz
6185MHz
6345MHz
6505MHz
6665MHz
6825MHz
6985MHz
802.11be EHT320-BF_Nss1,(MCS0)_4TX
6105MHz
6265MHz
6585MHz
6745MHz
6905MHz

For Radio 3:

Mode
802.11be EHT20_Nss1,(MCS0)_4TX
6535MHz
6695MHz
6875MHz
6895MHz
6995MHz
7095MHz
802.11be EHT40_Nss1,(MCS0)_4TX
6565MHz
6685MHz
6885MHz
6925MHz
7005MHz
7085MHz
802.11be EHT80_Nss1,(MCS0)_4TX
6625MHz
6705MHz
6785MHz
6865MHz
6945MHz
7025MHz
802.11be EHT160_Nss1,(MCS0)_4TX
6665MHz
6825MHz
6985MHz
802.11be EHT320_Nss1,(MCS0)_4TX
6745MHz
6905MHz
802.11be EHT20-BF_Nss1,(MCS0)_4TX
6535MHz
6695MHz
6875MHz



6895MHz
6995MHz
7095MHz
802.11be EHT40-BF_Nss1,(MCS0)_4TX
6565MHz
6685MHz
6885MHz
6925MHz
7005MHz
7085MHz
802.11be EHT80-BF_Nss1,(MCS0)_4TX
6625MHz
6705MHz
6785MHz
6865MHz
6945MHz
7025MHz
802.11be EHT160-BF_Nss1,(MCS0)_4TX
6665MHz
6825MHz
6985MHz
802.11be EHT320-BF_Nss1,(MCS0)_4TX
6745MHz
6905MHz

For Scanning Radio 4:

Mode
802.11be EHT20_Nss1,(MCS0)_2TX
5955MHz
6195MHz
6415MHz
6435MHz
6475MHz
6515MHz
6535MHz
6695MHz
6875MHz
6895MHz
6995MHz
7095MHz
802.11be EHT40_Nss1,(MCS0)_2TX
5965MHz
6205MHz
6405MHz
6445MHz
6485MHz
6525MHz
6565MHz
6685MHz
6885MHz



6925MHz
7005MHz
7085MHz
802.11be EHT80_Nss1,(MCS0)_2TX
5985MHz
6225MHz
6385MHz
6465MHz
6545MHz
6625MHz
6705MHz
6785MHz
6865MHz
6945MHz
7025MHz
802.11be EHT160_Nss1,(MCS0)_2TX
6025MHz
6185MHz
6345MHz
6505MHz
6665MHz
6825MHz
6985MHz
802.11be EHT320_Nss1,(MCS0)_2TX
6105MHz
6265MHz
6425MHz
6585MHz
6745MHz
6905MHz

For EUT 2:**For Radio 1:**

Mode
802.11be EHT20_Nss1,(MCS0)_4TX
5955MHz
6195MHz
6415MHz
6435MHz
6475MHz
6515MHz
6535MHz
6695MHz
6875MHz
6895MHz
6995MHz
7095MHz
802.11be EHT40_Nss1,(MCS0)_4TX
5965MHz



6205MHz
6405MHz
6445MHz
6485MHz
6525MHz
6565MHz
6685MHz
6885MHz
6925MHz
7005MHz
7085MHz
802.11be EHT80_Nss1,(MCS0)_4TX
5985MHz
6225MHz
6385MHz
6465MHz
6545MHz
6625MHz
6705MHz
6785MHz
6865MHz
6945MHz
7025MHz
802.11be EHT160_Nss1,(MCS0)_4TX
6025MHz
6185MHz
6345MHz
6505MHz
6665MHz
6825MHz
6985MHz
802.11be EHT320_Nss1,(MCS0)_4TX
6105MHz
6265MHz
6585MHz
6745MHz
6905MHz
802.11be EHT20-BF_Nss1,(MCS0)_4TX
5955MHz
6195MHz
6415MHz
6435MHz
6475MHz
6515MHz
6535MHz
6695MHz
6875MHz
6895MHz
6995MHz



7095MHz
802.11be EHT40-BF_Nss1,(MCS0)_4TX
5965MHz
6205MHz
6405MHz
6445MHz
6485MHz
6525MHz
6565MHz
6685MHz
6885MHz
6925MHz
7005MHz
7085MHz
802.11be EHT80-BF_Nss1,(MCS0)_4TX
5985MHz
6225MHz
6385MHz
6465MHz
6545MHz
6625MHz
6705MHz
6785MHz
6865MHz
6945MHz
7025MHz
802.11be EHT160-BF_Nss1,(MCS0)_4TX
6025MHz
6185MHz
6345MHz
6505MHz
6665MHz
6825MHz
6985MHz
802.11be EHT320-BF_Nss1,(MCS0)_4TX
6105MHz
6265MHz
6585MHz
6745MHz
6905MHz

For Radio 3:

Mode
802.11be EHT20_Nss1,(MCS0)_4TX
6535MHz
6695MHz
6875MHz
6895MHz
6995MHz
7095MHz



802.11be EHT40_Nss1,(MCS0)_4TX
6565MHz
6685MHz
6885MHz
6925MHz
7005MHz
7085MHz
802.11be EHT80_Nss1,(MCS0)_4TX
6625MHz
6705MHz
6785MHz
6865MHz
6945MHz
7025MHz
802.11be EHT160_Nss1,(MCS0)_4TX
6665MHz
6825MHz
6985MHz
802.11be EHT320_Nss1,(MCS0)_4TX
6745MHz
6905MHz
802.11be EHT20-BF_Nss1,(MCS0)_4TX
6535MHz
6695MHz
6875MHz
6895MHz
6995MHz
7095MHz
802.11be EHT40-BF_Nss1,(MCS0)_4TX
6565MHz
6685MHz
6885MHz
6925MHz
7005MHz
7085MHz
802.11be EHT80-BF_Nss1,(MCS0)_4TX
6625MHz
6705MHz
6785MHz
6865MHz
6945MHz
7025MHz
802.11be EHT160-BF_Nss1,(MCS0)_4TX
6665MHz
6825MHz
6985MHz
802.11be EHT320-BF_Nss1,(MCS0)_4TX
6745MHz
6905MHz

**For Scanning Radio 4:**

Mode
802.11be EHT20_Nss1,(MCS0)_2TX
5955MHz
6195MHz
6415MHz
6435MHz
6475MHz
6515MHz
6535MHz
6695MHz
6875MHz
6895MHz
6995MHz
7095MHz
802.11be EHT40_Nss1,(MCS0)_2TX
5965MHz
6205MHz
6405MHz
6445MHz
6485MHz
6525MHz
6565MHz
6685MHz
6885MHz
6925MHz
7005MHz
7085MHz
802.11be EHT80_Nss1,(MCS0)_2TX
5985MHz
6225MHz
6385MHz
6465MHz
6545MHz
6625MHz
6705MHz
6785MHz
6865MHz
6945MHz
7025MHz
802.11be EHT160_Nss1,(MCS0)_2TX
6025MHz
6185MHz
6345MHz
6505MHz
6665MHz
6825MHz
6985MHz



802.11be EHT320_Nss1,(MCS0)_2TX
6105MHz
6265MHz
6425MHz
6585MHz
6745MHz
6905MHz

For Multi_RU:**For EUT 1:****For Radio 1:**

Mode
802.11be EHT80_Nss1,(MCS0),RU484+RU242 MRU 3_4TX
5985MHz
802.11be EHT80_Nss1,(MCS0),RU484+RU242 MRU 1_4TX
7025MHz
802.11be EHT160_Nss1,(MCS0),RU996+RU484+RU242 MRU 8_4TX
6025MHz
802.11be EHT160_Nss1,(MCS0),RU996+RU484 MRU 4_4TX
6025MHz
802.11be EHT160_Nss1,(MCS0),RU996+RU484+RU242 MRU 2_4TX
6985MHz
802.11be EHT160_Nss1,(MCS0),RU996+RU484 MRU 3_4TX
6985MHz
802.11be EHT320_Nss1,(MCS0),3xRU996+RU484 MRU 5_4TX
6105MHz
802.11be EHT320_Nss1,(MCS0),3xRU996 MRU 3_4TX
6105MHz
802.11be EHT320_Nss1,(MCS0),2xRU996+RU484 MRU 6_4TX
6105MHz
802.11be EHT320_Nss1,(MCS0),3xRU996+RU484 MRU 4_4TX
6905MHz
802.11be EHT320_Nss1,(MCS0),3xRU996 MRU 1_4TX
6905MHz
802.11be EHT320_Nss1,(MCS0),2xRU996+RU484 MRU 8_4TX
6905MHz

For Radio 3:

Mode
802.11be EHT80_Nss1,(MCS0),RU484+RU242 MRU 3_4TX
7025MHz
802.11be EHT160_Nss1,(MCS0),RU996+RU484+RU242 MRU 7_4TX
6985MHz
802.11be EHT160_Nss1,(MCS0),RU996+RU484 MRU 1_4TX
6985MHz
802.11be EHT320_Nss1,(MCS0),3xRU996+RU484 MRU 2_4TX
6905MHz
802.11be EHT320_Nss1,(MCS0),3xRU996 MRU 2_4TX
6905MHz
802.11be EHT320_Nss1,(MCS0),2xRU996+RU484 MRU 8_4TX
6905MHz



For EUT 2:
For Radio 1:

Mode
802.11be EHT80_Nss1,(MCS0),RU484+RU242 MRU 4_4TX
5985MHz
802.11be EHT80_Nss1,(MCS0),RU484+RU242 MRU 2_4TX
7025MHz
802.11be EHT160_Nss1,(MCS0),RU996+RU484+RU242 MRU 3_4TX
6025MHz
802.11be EHT160_Nss1,(MCS0),RU996+RU484 MRU 3_4TX
6025MHz
802.11be EHT160_Nss1,(MCS0),RU996+RU484+RU242 MRU 7_4TX
6985MHz
802.11be EHT160_Nss1,(MCS0),RU996+RU484 MRU 1_4TX
6985MHz
802.11be EHT320_Nss1,(MCS0),3xRU996+RU484 MRU 5_4TX
6105MHz
802.11be EHT320_Nss1,(MCS0),3xRU996 MRU 4_4TX
6105MHz
802.11be EHT320_Nss1,(MCS0),2xRU996+RU484 MRU 2_4TX
6105MHz
802.11be EHT320_Nss1,(MCS0),3xRU996+RU484 MRU 4_4TX
6905MHz
802.11be EHT320_Nss1,(MCS0),3xRU996 MRU 1_4TX
6905MHz
802.11be EHT320_Nss1,(MCS0),2xRU996+RU484 MRU 8_4TX
6905MHz

For Radio 3:

Mode
802.11be EHT80_Nss1,(MCS0),RU484+RU242 MRU 1_4TX
7025MHz
802.11be EHT160_Nss1,(MCS0),RU996+RU484+RU242 MRU 4_4TX
6985MHz
802.11be EHT160_Nss1,(MCS0),RU996+RU484 MRU 2_4TX
6985MHz
802.11be EHT320_Nss1,(MCS0),3xRU996+RU484 MRU 2_4TX
6905MHz
802.11be EHT320_Nss1,(MCS0),3xRU996 MRU 1_4TX
6905MHz
802.11be EHT320_Nss1,(MCS0),2xRU996+RU484 MRU 8_4TX
6905MHz



Note:

- ♦ Evaluated EHT20/EHT40/EHT80/EHT160 mode only due to the similar modulation. The power setting of HEW20/HEW40/HEW80/HEW160 mode are the same or lower than EHT20/EHT40/EHT80/EHT160.
- ♦ For Radio 1, 3: The EUT supports beamforming and CDD modes, and the CDD mode is the worst case. Therefore, all test items are evaluated in the report. The beamforming mode only evaluates the output power.

2.2 The Worst Case Measurement Configuration

The Worst Case Mode for Following Conformance Tests	
Tests Item	AC power-line conducted emissions
Condition	AC power-line conducted measurement for line and neutral Test Voltage: 120Vac / 60Hz
Operating Mode	Normal Link
1	EUT 1_R1:6GHz UNII 5+R2:5GHz UNII 1,2A+R4:2.4GHz+R6:UWB+R7:GPS+PoE(Powered from Eth0+PoE port)
2	EUT 1_R1:6GHz UNII 6-8+R2:5GHz UNII 1,2A+R4:2.4GHz+R6:UWB+R7:GPS+PoE(Powered from Eth0+PoE port)
3	EUT 1_R1:6GHz UNII 5+R2:5GHz UNII 2C-4+R4:2.4GHz+R6:UWB+R7:GPS+PoE(Powered from Eth0+PoE port)
4	EUT 1_R1:6GHz UNII 6-8+R2:5GHz UNII 2C-4+R4:2.4GHz+R6:UWB+R7:GPS+PoE(Powered from Eth0+PoE port)
5	EUT 1_R1:6GHz UNII 5+R2:5GHz UNII 1,2A+R3:2.4GHz+R6:UWB+R7:GPS+PoE(Powered from Eth0+PoE port)
6	EUT 1_R1:6GHz UNII 6-8+R2:5GHz UNII 1,2A+R3:2.4GHz+R6:UWB+R7:GPS+PoE(Powered from Eth0+PoE port)
7	EUT 1_R1:6GHz UNII 5+R2:5GHz UNII 2C-4+R3:2.4GHz+R6:UWB+R7:GPS+PoE(Powered from Eth0+PoE port)
8	EUT 1_R1:6GHz UNII 6-8+R2:5GHz UNII 2C-4+R3:2.4GHz+R6:UWB+R7:GPS+PoE(Powered from Eth0+PoE port)
9	EUT 1_R1:6GHz UNII 5+R2:5GHz UNII 2C-4+R3:5GHz UNII 1,2A+R5:Bluetooth+R6:UWB+R7:GPS+PoE(Powered from Eth0+PoE port)
10	EUT 1_R1:6GHz UNII 6-8+R2:5GHz UNII 2C-4+R3:5GHz UNII 1,2A+R5:Bluetooth+R6:UWB+R7:GPS+PoE(Powered from Eth0+PoE port)
11	EUT 1_R1:6GHz UNII 5+R2:5GHz UNII 1,2A+R3:6GHz UNII 7,8+R5:Zigbee(TX)+R6:UWB+R7:GPS+PoE(Powered from Eth0+PoE port)
12	EUT 1_R1:6GHz UNII 5+R2:5GHz UNII 1,2A+R3:6GHz UNII 7,8+R5:Zigbee(RX)+R6:UWB+R7:GPS+PoE(Powered from Eth0+PoE port)
13	EUT 1_R1:6GHz UNII 5+R2:5GHz UNII 2C-4+R3:6GHz UNII 7,8+R5:Zigbee(TX)+R6:UWB+R7:GPS+PoE(Powered from Eth0+PoE port)
14	EUT 1_R1:6GHz UNII 5+R2:5GHz UNII 2C-4+R3:6GHz UNII 7,8+R5:Zigbee(RX)+R6:UWB+R7:GPS+PoE(Powered from Eth0+PoE port)
15	EUT 1_R1:6GHz UNII 5+R4:5GHz UNII 1-4+R5:Zigbee(TX)+ R6:UWB+R7:GPS+PoE(Powered from Eth0+PoE port)
16	EUT 1_R1:6GHz UNII 5+R4:5GHz UNII 1-4+R5:Zigbee(RX)+ R6:UWB+R7:GPS+PoE(Powered from Eth0+PoE port)
17	EUT 1_R2:5GHz UNII 1,2A+R4:6GHz UNII 5-8+R5:Bluetooth+ R6:UWB+R7:GPS+PoE(Powered from Eth0+PoE port)



Mode 8 has been evaluated to be the worst case among Mode 1~17, thus measurement for Mode 18 will follow this same test mode.

18	EUT 1_R1:6GHz UNII 6-8+R2:5GHz UNII 2C-4+R3:2.4GHz+R6:UWB+R7:GPS+PoE(Powered from Eth1+PoE port)
19	EUT 2_R1:6GHz UNII 5+R2:5GHz UNII 1,2A+R4:2.4GHz+R6:UWB+R7:GPS+PoE(Powered from Eth0+PoE port)
20	EUT 2_R1:6GHz UNII 6-8+R2:5GHz UNII 1,2A+R4:2.4GHz+R6:UWB+R7:GPS+PoE(Powered from Eth0+PoE port)
21	EUT 2_R1:6GHz UNII 5+R2:5GHz UNII 2C-4+R4:2.4GHz+R6:UWB+R7:GPS+PoE(Powered from Eth0+PoE port)
22	EUT 2_R1:6GHz UNII 6-8+R2:5GHz UNII 2C-4+R4:2.4GHz+R6:UWB+R7:GPS+PoE(Powered from Eth0+PoE port)
23	EUT 2_R1:6GHz UNII 5+R2:5GHz UNII 1,2A+R3:2.4GHz+R6:UWB+R7:GPS+PoE(Powered from Eth0+PoE port)
24	EUT 2_R1:6GHz UNII 6-8+R2:5GHz UNII 1,2A+R3:2.4GHz+R6:UWB+R7:GPS+PoE(Powered from Eth0+PoE port)
25	EUT 2_R1:6GHz UNII 5+R2:5GHz UNII 2C-4+R3:2.4GHz+R6:UWB+R7:GPS+PoE(Powered from Eth0+PoE port)
26	EUT 2_R1:6GHz UNII 6-8+R2:5GHz UNII 2C-4+R3:2.4GHz+R6:UWB+R7:GPS+PoE(Powered from Eth0+PoE port)
27	EUT 2_R1:6GHz UNII 5+R2:5GHz UNII 2C-4+R3:5GHz UNII 1,2A+R5:Bluetooth+R6:UWB+R7:GPS+PoE(Powered from Eth0+PoE port)
28	EUT 2_R1:6GHz UNII 6-8+R2:5GHz UNII 2C-4+R3:5GHz UNII 1,2A+R5:Bluetooth+R6:UWB+R7:GPS+PoE(Powered from Eth0+PoE port)
29	EUT 2_R1:6GHz UNII 5+R2:5GHz UNII 1,2A+R3:6GHz UNII 7,8+R5:Zigbee(TX)+R6:UWB+R7:GPS+PoE(Powered from Eth0+PoE port)
30	EUT 2_R1:6GHz UNII 5+R2:5GHz UNII 1,2A+R3:6GHz UNII 7,8+R5:Zigbee(RX)+R6:UWB+R7:GPS+PoE(Powered from Eth0+PoE port)
31	EUT 2_R1:6GHz UNII 5+R2:5GHz UNII 2C-4+R3:6GHz UNII 7,8+R5:Zigbee(TX)+R6:UWB+R7:GPS+PoE(Powered from Eth0+PoE port)
32	EUT 2_R1:6GHz UNII 5+R2:5GHz UNII 2C-4+R3:6GHz UNII 7,8+R5:Zigbee(RX)+R6:UWB+R7:GPS+PoE(Powered from Eth0+PoE port)
33	EUT 2_R1:6GHz UNII 5+R4:5GHz UNII 1-4+R5:Zigbee(TX)+ R6:UWB+R7:GPS+PoE(Powered from Eth0+PoE port)
34	EUT 2_R1:6GHz UNII 5+R4:5GHz UNII 1-4+R5:Zigbee(RX)+ R6:UWB+R7:GPS+PoE(Powered from Eth0+PoE port)
35	EUT 2_R2:5GHz UNII 1,2A+R4:6GHz UNII 5-8+R5:Bluetooth+ R6:UWB+R7:GPS+PoE(Powered from Eth0+PoE port)

Mode 20 has been evaluated to be the worst case among Mode 19~35, thus measurement for Mode 36 will follow this same test mode.

36	EUT 2_R1:6GHz UNII 6-8+R2:5GHz UNII 1,2A+R4:2.4GHz+R6:UWB+R7:GPS+PoE(Powered from Eth1+PoE port)
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37	EUT 3_R2:5GHz UNII 1,2A+R4:2.4GHz+R6:UWB+R7:GPS+PoE(Powered from Eth0+PoE port)
38	EUT 3_R2:5GHz UNII 2C-3+R4:2.4GHz+R6:UWB+R7:GPS+PoE(Powered from Eth0+PoE port)
39	EUT 3_R2:5GHz UNII 1,2A+R3:2.4GHz+R6:UWB+R7:GPS+PoE(Powered from Eth0+PoE port)
40	EUT 3_R2:5GHz UNII 2C-3+R3:2.4GHz+R6:UWB+R7:GPS+PoE(Powered from Eth0+PoE port)
41	EUT 3_R2:5GHz UNII 2C-3+R3:5GHz UNII 1,2A+R5:Bluetooth+R6:UWB+R7:GPS+PoE(Powered from Eth0+PoE port)
42	EUT 3_R2:5GHz UNII 1,2A+R5:Zigbee(TX)+R6:UWB+R7:GPS+PoE(Powered from Eth0+PoE port)
43	EUT 3_R2:5GHz UNII 1,2A+R5:Zigbee(RX)+R6:UWB+R7:GPS+PoE(Powered from Eth0+PoE port)
44	EUT 3_R2:5GHz UNII 2C-3+R5:Zigbee(TX)+R6:UWB+R7:GPS+PoE(Powered from Eth0+PoE port)
45	EUT 3_R2:5GHz UNII 2C-3+R5:Zigbee(RX)+R6:UWB+R7:GPS+PoE(Powered from Eth0+PoE port)
46	EUT 3_R4:5GHz UNII 1-3+R5:Zigbee(TX)+R6:UWB+R7:GPS+PoE(Powered from Eth0+PoE port)
47	EUT 3_R4:5GHz UNII 1-3+R5:Zigbee(RX)+R6:UWB+R7:GPS+PoE(Powered from Eth0+PoE port)
48	EUT 3_R2:5GHz UNII 1,2A+R5:Bluetooth+R6:UWB+R7:GPS+PoE(Powered from Eth0+PoE port)
Mode 41 has been evaluated to be the worst case among Mode 37~48, thus measurement for Mode 49 will follow this same test mode.	
49	EUT 3_R2:5GHz UNII 2C-3+R3:5GHz UNII 1,2A+R5:Bluetooth+R6:UWB+R7:GPS+PoE(Powered from Eth1+PoE port)
For operating mode 8 is the worst case and it was record in this test report.	

The Worst Case Mode for Following Conformance Tests	
Tests Item	Emission Bandwidth Maximum Equivalent Isotopically Radiated Power (E.I.R.P.)
Test Condition	Conducted measurement at transmit chains
1	EUT 1_R1:4T1S
2	EUT 1_R3:4T1S
3	EUT 1_R4:2T1S
4	EUT 2_R1:4T1S
5	EUT 2_R3:4T1S
6	EUT 2_R4:2T1S



The Worst Case Mode for Following Conformance Tests	
Tests Item	Peak Power Spectral Density (E.I.R.P.)
Test Condition	Conducted measurement at transmit chains
1	EUT 1_R1:4T1S_Full_RU
2	EUT 1_R3:4T1S_Full_RU
3	EUT 1_R4:2T1S_Full_RU
4	EUT 2_R1:4T1S_Full_RU
5	EUT 2_R3:4T1S_Full_RU
6	EUT 2_R4:2T1S_Full_RU
7	EUT 1_R1:4T1S_Multi_RU
8	EUT 1_R3:4T1S_Multi_RU
9	EUT 2_R1:4T1S_Multi_RU
10	EUT 2_R3:4T1S_Multi_RU

The Worst Case Mode for Following Conformance Tests	
Tests Item	Contention Based Protocol
Test Condition	Conducted measurement at transmit chains
Only the lowest gain antenna was selected to test from EUT 1~2.	
1	EUT 1_R1
2	EUT 1_R3
3	EUT 1_R4



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	Normal Link
For EUT1~3: - After evaluating, the worst case was found at Z axis, so it was selected to perform test and its test result was written in the report. - The EUT has two powered modes, one is "PoE(Powered from Eth0+PoE port)" mode and the other is "PoE(Powered from Eth1+PoE port)" mode. After evaluating, the worst case was found at "PoE(Powered from Eth0+PoE port)" mode, so the measurement will follow this same test. For EUT 1, 2: The EUTs have 17 modes as below: Mode 1: EUT_R1:6GHz UNII 5+R2:5GHz UNII 1,2A+R4:2.4GHz+R6:UWB+R7:GPS Mode 2: EUT_R1:6GHz UNII 6-8+R2:5GHz UNII 1,2A+R4:2.4GHz+R6:UWB+R7:GPS Mode 3: EUT_R1:6GHz UNII 5+R2:5GHz UNII 2C-4+R4:2.4GHz+R6:UWB+R7:GPS Mode 4: EUT_R1:6GHz UNII 6-8+R2:5GHz UNII 2C-4+R4:2.4GHz+R6:UWB+R7:GPS Mode 5: EUT_R1:6GHz UNII 5+R2:5GHz UNII 1,2A+R3:2.4GHz+R6:UWB+R7:GPS Mode 6: EUT_R1:6GHz UNII 6-8+R2:5GHz UNII 1,2A+R3:2.4GHz+R6:UWB+R7:GPS Mode 7: EUT_R1:6GHz UNII 5+R2:5GHz UNII 2C-4+R3:2.4GHz+R6:UWB+R7:GPS Mode 8: EUT_R1:6GHz UNII 6-8+R2:5GHz UNII 2C-4+R3:2.4GHz+R6:UWB+R7:GPS Mode 9: EUT_R1:6GHz UNII 5+R2:5GHz UNII 2C-4+R3:5GHz UNII 1,2A+R5:Bluetooth+R6:UWB+R7:GPS Mode 10: EUT_R1:6GHz UNII 6-8+R2:5GHz UNII 2C-4+R3:5GHz UNII 1,2A+R5:Bluetooth+R6:UWB+R7:GPS Mode 11: EUT_R1:6GHz UNII 5+R2:5GHz UNII 1,2A+R3:6GHz UNII 7,8+R5:Zigbee(TX)+R6:UWB+R7:GPS Mode 12: EUT_R1:6GHz UNII 5+R2:5GHz UNII 1,2A+R3:6GHz UNII 7,8+R5:Zigbee(RX)+R6:UWB+R7:GPS Mode 13: EUT_R1:6GHz UNII 5+R2:5GHz UNII 2C-4+R3:6GHz UNII 7,8+R5:Zigbee(TX)+R6:UWB+R7:GPS Mode 14: EUT_R1:6GHz UNII 5+R2:5GHz UNII 2C-4+R3:6GHz UNII 7,8+R5:Zigbee(RX)+R6:UWB+R7:GPS Mode 15: EUT_R1:6GHz UNII 5+R2:5GHz UNII 1-4+R5:Zigbee(TX)+R6:UWB+R7:GPS Mode 16: EUT_R1:6GHz UNII 5+R2:5GHz UNII 1-4+R5:Zigbee(RX)+R6:UWB+R7:GPS Mode 17: EUT_R2:5GHz UNII 1,2A+R4:6GHz UNII 5-8+R5:Bluetooth+ R6:UWB+R7:GPS And, from above the worst case was found at Mode 1. So the measurement will follow this same test configuration. For EUT 3: The EUT has 12 modes as below: Mode 1: EUT_R2:5GHz UNII 1,2A+R4:2.4GHz+R6:UWB+R7:GPS Mode 2: EUT_R2:5GHz UNII 2C-3+R4:2.4GHz+R6:UWB+R7:GPS Mode 3: EUT_R2:5GHz UNII 1,2A+R3:2.4GHz+R6:UWB+R7:GPS Mode 4: EUT_R2:5GHz UNII 2C-3+R3:2.4GHz+R6:UWB+R7:GPS Mode 5: EUT_R2:5GHz UNII 2C-3+R3:5GHz UNII 1,2A+R5:Bluetooth+R6:UWB+R7:GPS Mode 6: EUT_R2:5GHz UNII 1,2A+R5:Zigbee(TX)+R6:UWB+R7:GPS Mode 7: EUT_R2:5GHz UNII 1,2A+R5:Zigbee(RX)+R6:UWB+R7:GPS Mode 8: EUT_R2:5GHz UNII 2C-3+R5:Zigbee(TX)+R6:UWB+R7:GPS	



Mode 9: EUT_R2:5GHz UNII 2C-3+R5:Zigbee(RX)+R6:UWB+R7:GPS

Mode 10: EUT_R2:5GHz UNII 1-3+R5:Zigbee(TX)+R6:UWB+R7:GPS

Mode 11: EUT_R2:5GHz UNII 1-3+R5:Zigbee(RX)+R6:UWB+R7:GPS

Mode 12: EUT_R2:5GHz UNII 1,2A+R5:Bluetooth+ R6:UWB+R7:GPS

And, from above the worst case was found at Mode 1. So the measurement will follow this same test configuration.

1	EUT 1 in Z axis_R1:6GHz UNII 5+R2:5GHz UNII 1,2A+R4:2.4GHz+R6:UWB+R7:GPS+PoE(Powered from Eth0+PoE port)
2	EUT 2 in Z axis_R1:6GHz UNII 5+R2:5GHz UNII 1,2A+R4:2.4GHz+R6:UWB+R7:GPS+PoE(Powered from Eth0+PoE port)
3	EUT 3 in Z axis_R2:5GHz UNII 1,2A+R4:2.4GHz+R6:UWB+R7:GPS+PoE(Powered from Eth0+PoE port)

For operating mode 2 is the worst case and it was record in this test report.

Operating Mode > 1GHz	CTX
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After evaluating, the worst-case axis was found as below. So the measurement will follow this same test configuration.

1	EUT 1 in Y axis_R1:4T1S_Full_RU
2	EUT 1 in Y axis_R3:4T1S_Full_RU
3	EUT 1 in Z axis_R4:2T1S_Full_RU
4	EUT 2 in Y axis_R1:4T1S_Full_RU
5	EUT 2 in Y axis_R3:4T1S_Full_RU
6	EUT 2 in Y axis_R4:2T1S_Full_RU
7	EUT 1 in Y axis_R1:4T1S_Multi_RU
8	EUT 1 in Y axis_R3:4T1S_Multi_RU
9	EUT 2 in Y axis_R1:4T1S_Multi_RU
10	EUT 2 in Y axis_R3:4T1S_Multi_RU



The Worst Case Mode for Following Conformance Tests	
Tests Item	Emission MASK
Test Condition	Conducted measurement at transmit chains
1	EUT 1_R1:4T1S_Full_RU
2	EUT 1_R3:4T1S_Full_RU
3	EUT 1_R4:2T1S_Full_RU
4	EUT 2_R1:4T1S_Full_RU
5	EUT 2_R3:4T1S_Full_RU
6	EUT 2_R4:2T1S_Full_RU
7	EUT 1_R1:4T1S_Multi_RU
8	EUT 1_R3:4T1S_Multi_RU
9	EUT 2_R1:4T1S_Multi_RU
10	EUT 2_R3:4T1S_Multi_RU



The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis - Co-location RF Exposure Evaluation
Operating Mode	
1	EUT 1_R1:6GHz UNII 5+R2:5GHz UNII 1,2A+R3:2.4GHz+ R4:2.4GHz+R5:Bluetooth +R6:UWB
2	EUT 1_R1:6GHz UNII 5+R2:5GHz UNII 1,2A+R3:2.4GHz+R4:5GHz UNII 1-4+ R5:Bluetooth+R6:UWB
3	EUT 1_R1:6GHz UNII 5+R2:5GHz UNII 1,2A+R3:2.4GHz+R4:6GHz UNII 5-8+ R5:Bluetooth+R6:UWB
4	EUT 1_R1:6GHz UNII 5+R2:5GHz UNII 2C-4+R3:2.4GHz+R4:2.4GHz+R5:Bluetooth +R6:UWB
5	EUT 1_R1:6GHz UNII 5+R2:5GHz UNII 2C-4+R3:2.4GHz+R4:5GHz UNII 1-4+ R5:Bluetooth+R6:UWB
6	EUT 1_R1:6GHz UNII 5+R2:5GHz UNII 2C-4+R3:2.4GHz+R4:6GHz UNII 5-8+ R5:Bluetooth+R6:UWB
7	EUT 1_R1:6GHz UNII 5+R2:5GHz UNII 1,2A+R3:2.4GHz+R4:2.4GHz+R5:Zigbee +R6:UWB
8	EUT 1_R1:6GHz UNII 5+R2:5GHz UNII 1,2A+R3:2.4GHz+R4:5GHz UNII 1-4+ R5:Zigbee+R6:UWB
9	EUT 1_R1:6GHz UNII 5+R2:5GHz UNII 1,2A+R3:2.4GHz+R4:6GHz UNII 5-8+ R5:Zigbee+R6:UWB
10	EUT 1_R1:6GHz UNII 5+R2:5GHz UNII 2C-4+R3:2.4GHz+R4:2.4GHz+R5:Zigbee+ R6:UWB
11	EUT 1_R1:6GHz UNII 5+R2:5GHz UNII 2C-4+R3:2.4GHz+R4:5GHz UNII 1-4+ R5:Zigbee+R6:UWB
12	EUT 1_R1:6GHz UNII 5+R2:5GHz UNII 2C-4+R3:2.4GHz+R4:6GHz UNII 5-8+ R5:Zigbee+R6:UWB
13	EUT 1_R1:6GHz UNII 6-8+R2:5GHz UNII 1,2A+R3:2.4GHz+ R4:2.4GHz+ R5:Bluetooth +R6:UWB
14	EUT 1_R1:6GHz UNII 6-8+R2:5GHz UNII 1,2A+R3:2.4GHz+R4:5GHz UNII 1-4+ R5:Bluetooth+R6:UWB
15	EUT 1_R1:6GHz UNII 6-8+R2:5GHz UNII 1,2A+R3:2.4GHz+R4:6GHz UNII 5-8+ R5:Bluetooth+R6:UWB
16	EUT 1_R1:6GHz UNII 6-8+R2:5GHz UNII 2C-4+R3:2.4GHz+ R4:2.4GHz+ R5:Bluetooth +R6:UWB
17	EUT 1_R1:6GHz UNII 6-8+R2:5GHz UNII 2C-4+R3:2.4GHz+R4:5GHz UNII 1-4+ R5:Bluetooth+R6:UWB
18	EUT 1_R1:6GHz UNII 6-8+R2:5GHz UNII 2C-4+R3:2.4GHz+R4:6GHz UNII 5-8+ R5:Bluetooth+R6:UWB



19	EUT 1_R1:6GHz UNII 6-8+R2:5GHz UNII 1,2A+R3:2.4GHz+ R4:2.4GHz+R5:Zigbee +R6:UWB
20	EUT 1_R1:6GHz UNII 6-8+R2:5GHz UNII 1,2A+R3:2.4GHz+R4:5GHz UNII 1-4+ R5:Zigbee+R6:UWB
21	EUT 1_R1:6GHz UNII 6-8+R2:5GHz UNII 1,2A+R3:2.4GHz+R4:6GHz UNII 5-8+ R5:Zigbee+R6:UWB
22	EUT 1_R1:6GHz UNII 6-8+R2:5GHz UNII 2C-4+R3:2.4GHz+ R4:2.4GHz+R5:Zigbee +R6:UWB
23	EUT 1_R1:6GHz UNII 6-8+R2:5GHz UNII 2C-4+R3:2.4GHz+R4:5GHz UNII 1-4+ R5:Zigbee+R6:UWB
24	EUT 1_R1:6GHz UNII 6-8+R2:5GHz UNII 2C-4+R3:2.4GHz+R4:6GHz UNII 5-8+ R5:Zigbee+R6:UWB
25	EUT 1_R1:6GHz UNII 5+R2:5GHz UNII 2C-4+R3:5GHz UNII 1,2A+ R4:2.4GHz+ R5:Bluetooth+R6:UWB
26	EUT 1_R1:6GHz UNII 5+R2:5GHz UNII 2C-4+R3:5GHz UNII 1,2A+R4:5GHz UNII 1-4+ R5:Bluetooth+R6:UWB
27	EUT 1_R1:6GHz UNII 5+R2:5GHz UNII 2C-4+R3:5GHz UNII 1,2A+R4:6GHz UNII 5-8+ R5:Bluetooth+R6:UWB
28	EUT 1_R1:6GHz UNII 5+R2:5GHz UNII 2C-4+R3:5GHz UNII 1,2A+ R4:2.4GHz+ R5:Zigbee+R6:UWB
29	EUT 1_R1:6GHz UNII 5+R2:5GHz UNII 2C-4+R3:5GHz UNII 1,2A+R4:5GHz UNII 1-4+ R5:Zigbee+R6:UWB
30	EUT 1_R1:6GHz UNII 5+R2:5GHz UNII 2C-4+R3:5GHz UNII 1,2A+R4:6GHz UNII 5-8+ R5:Zigbee+R6:UWB
31	EUT 1_R1:6GHz UNII 6-8+R2:5GHz UNII 2C-4+R3:5GHz UNII 1,2A+ R4:2.4GHz+ R5:Bluetooth+R6:UWB
32	EUT 1_R1:6GHz UNII 6-8+R2:5GHz UNII 2C-4+R3:5GHz UNII 1,2A+R4:5GHz UNII 1-4+ R5:Bluetooth+R6:UWB
33	EUT 1_R1:6GHz UNII 6-8+R2:5GHz UNII 2C-4+R3:5GHz UNII 1,2A+R4:6GHz UNII 5-8+ R5:Bluetooth+R6:UWB
34	EUT 1_R1:6GHz UNII 6-8+R2:5GHz UNII 2C-4+R3:5GHz UNII 1,2A+ R4:2.4GHz+ R5:Zigbee+R6:UWB
35	EUT 1_R1:6GHz UNII 6-8+R2:5GHz UNII 2C-4+R3:5GHz UNII 1,2A+R4:5GHz UNII 1-4+ R5:Zigbee+R6:UWB
36	EUT 1_R1:6GHz UNII 6-8+R2:5GHz UNII 2C-4+R3:5GHz UNII 1,2A+R4:6GHz UNII 5-8+ R5:Zigbee+R6:UWB
37	EUT 1_R1:6GHz UNII 5+R2:5GHz UNII 1,2A+R3:6GHz UNII 7,8+ R4:2.4GHz+ R5:Bluetooth+R6:UWB
38	EUT 1_R1:6GHz UNII 5+R2:5GHz UNII 1,2A+R3:6GHz UNII 7,8+R4:5GHz UNII 1-4+ R5:Bluetooth+R6:UWB
39	EUT 1_R1:6GHz UNII 5+R2:5GHz UNII 1,2A+R3:6GHz UNII 7,8+R4:6GHz UNII 5-8+ R5:Bluetooth+R6:UWB



40	EUT 1_R1:6GHz UNII 5+R2:5GHz UNII 1,2A+R3:6GHz UNII 7,8+ R4:2.4GHz+ R5:Zigbee+R6:UWB
41	EUT 1_R1:6GHz UNII 5+R2:5GHz UNII 1,2A+R3:6GHz UNII 7,8+R4:5GHz UNII 1-4+ R5:Zigbee+R6:UWB
42	EUT 1_R1:6GHz UNII 5+R2:5GHz UNII 1,2A+R3:6GHz UNII 7,8+R4:6GHz UNII 5-8+ R5:Zigbee+R6:UWB
43	EUT 1_R1:6GHz UNII 5+R2:5GHz UNII 2C-4+R3:6GHz UNII 7,8+ R4:2.4GHz+ R5:Bluetooth+R6:UWB
44	EUT 1_R1:6GHz UNII 5+R2:5GHz UNII 2C-4+R3:6GHz UNII 7,8+R4:5GHz UNII 1-4+ R5:Bluetooth+R6:UWB
45	EUT 1_R1:6GHz UNII 5+R2:5GHz UNII 2C-4+R3:6GHz UNII 7,8+R4:6GHz UNII 5-8+ R5:Bluetooth+R6:UWB
46	EUT 1_R1:6GHz UNII 5+R2:5GHz UNII 2C-4+R3:6GHz UNII 7,8+ R4:2.4GHz+ R5:Zigbee+R6:UWB
47	EUT 1_R1:6GHz UNII 5+R2:5GHz UNII 2C-4+R3:6GHz UNII 7,8+R4:5GHz UNII 1-4+ R5:Zigbee+R6:UWB
48	EUT 1_R1:6GHz UNII 5+R2:5GHz UNII 2C-4+R3:6GHz UNII 7,8+R4:6GHz UNII 5-8+ R5:Zigbee+R6:UWB
49	EUT 2_R1:6GHz UNII 5+R2:5GHz UNII 1,2A+R3:2.4GHz+ R4:2.4GHz+R5:Bluetooth +R6:UWB
50	EUT 2_R1:6GHz UNII 5+R2:5GHz UNII 1,2A+R3:2.4GHz+R4:5GHz UNII 1-4+ R5:Bluetooth+R6:UWB
51	EUT 2_R1:6GHz UNII 5+R2:5GHz UNII 1,2A+R3:2.4GHz+R4:6GHz UNII 5-8+ R5:Bluetooth+R6:UWB
52	EUT 2_R1:6GHz UNII 5+R2:5GHz UNII 2C-4+R3:2.4GHz+R4:2.4GHz+R5:Bluetooth +R6:UWB
53	EUT 2_R1:6GHz UNII 5+R2:5GHz UNII 2C-4+R3:2.4GHz+R4:5GHz UNII 1-4+ R5:Bluetooth+R6:UWB
54	EUT 2_R1:6GHz UNII 5+R2:5GHz UNII 2C-4+R3:2.4GHz+R4:6GHz UNII 5-8+ R5:Bluetooth+R6:UWB
55	EUT 2_R1:6GHz UNII 5+R2:5GHz UNII 1,2A+R3:2.4GHz+R4:2.4GHz+R5:Zigbee +R6:UWB
56	EUT 2_R1:6GHz UNII 5+R2:5GHz UNII 1,2A+R3:2.4GHz+R4:5GHz UNII 1-4+ R5:Zigbee+R6:UWB
57	EUT 2_R1:6GHz UNII 5+R2:5GHz UNII 1,2A+R3:2.4GHz+R4:6GHz UNII 5-8+ R5:Zigbee+R6:UWB
58	EUT 2_R1:6GHz UNII 5+R2:5GHz UNII 2C-4+R3:2.4GHz+R4:2.4GHz+R5:Zigbee+ R6:UWB
59	EUT 2_R1:6GHz UNII 5+R2:5GHz UNII 2C-4+R3:2.4GHz+R4:5GHz UNII 1-4+ R5:Zigbee+R6:UWB
60	EUT 2_R1:6GHz UNII 5+R2:5GHz UNII 2C-4+R3:2.4GHz+R4:6GHz UNII 5-8+ R5:Zigbee+R6:UWB



61	EUT 2_R1:6GHz UNII 6-8+R2:5GHz UNII 1,2A+R3:2.4GHz+ R4:2.4GHz+ R5:Bluetooth+R6:UWB
62	EUT 2_R1:6GHz UNII 6-8+R2:5GHz UNII 1,2A+R3:2.4GHz+R4:5GHz UNII 1-4+ R5:Bluetooth+R6:UWB
63	EUT 2_R1:6GHz UNII 6-8+R2:5GHz UNII 1,2A+R3:2.4GHz+R4:6GHz UNII 5-8+ R5:Bluetooth+R6:UWB
64	EUT 2_R1:6GHz UNII 6-8+R2:5GHz UNII 2C-4+R3:2.4GHz+ R4:2.4GHz+ R5:Bluetooth+R6:UWB
65	EUT 2_R1:6GHz UNII 6-8+R2:5GHz UNII 2C-4+R3:2.4GHz+R4:5GHz UNII 1-4+ R5:Bluetooth+R6:UWB
66	EUT 2_R1:6GHz UNII 6-8+R2:5GHz UNII 2C-4+R3:2.4GHz+R4:6GHz UNII 5-8+ R5:Bluetooth+R6:UWB
67	EUT 2_R1:6GHz UNII 6-8+R2:5GHz UNII 1,2A+R3:2.4GHz+ R4:2.4GHz+R5:Zigbee+R6:UWB
68	EUT 2_R1:6GHz UNII 6-8+R2:5GHz UNII 1,2A+R3:2.4GHz+R4:5GHz UNII 1-4+ R5:Zigbee+R6:UWB
69	EUT 2_R1:6GHz UNII 6-8+R2:5GHz UNII 1,2A+R3:2.4GHz+R4:6GHz UNII 5-8+ R5:Zigbee+R6:UWB
70	EUT 2_R1:6GHz UNII 6-8+R2:5GHz UNII 2C-4+R3:2.4GHz+ R4:2.4GHz+R5:Zigbee+R6:UWB
71	EUT 2_R1:6GHz UNII 6-8+R2:5GHz UNII 2C-4+R3:2.4GHz+R4:5GHz UNII 1-4+ R5:Zigbee+R6:UWB
72	EUT 2_R1:6GHz UNII 6-8+R2:5GHz UNII 2C-4+R3:2.4GHz+R4:6GHz UNII 5-8+ R5:Zigbee+R6:UWB
73	EUT 2_R1:6GHz UNII 5+R2:5GHz UNII 2C-4+R3:5GHz UNII 1,2A+ R4:2.4GHz+ R5:Bluetooth+R6:UWB
74	EUT 2_R1:6GHz UNII 5+R2:5GHz UNII 2C-4+R3:5GHz UNII 1,2A+R4:5GHz UNII 1-4+ R5:Bluetooth+R6:UWB
75	EUT 2_R1:6GHz UNII 5+R2:5GHz UNII 2C-4+R3:5GHz UNII 1,2A+R4:6GHz UNII 5-8+ R5:Bluetooth+R6:UWB
76	EUT 2_R1:6GHz UNII 5+R2:5GHz UNII 2C-4+R3:5GHz UNII 1,2A+ R4:2.4GHz+ R5:Zigbee+R6:UWB
77	EUT 2_R1:6GHz UNII 5+R2:5GHz UNII 2C-4+R3:5GHz UNII 1,2A+R4:5GHz UNII 1-4+ R5:Zigbee+R6:UWB
78	EUT 2_R1:6GHz UNII 5+R2:5GHz UNII 2C-4+R3:5GHz UNII 1,2A+R4:6GHz UNII 5-8+ R5:Zigbee+R6:UWB
79	EUT 2_R1:6GHz UNII 6-8+R2:5GHz UNII 2C-4+R3:5GHz UNII 1,2A+ R4:2.4GHz+ R5:Bluetooth+R6:UWB
80	EUT 2_R1:6GHz UNII 6-8+R2:5GHz UNII 2C-4+R3:5GHz UNII 1,2A+R4:5GHz UNII 1-4+ R5:Bluetooth+R6:UWB
81	EUT 2_R1:6GHz UNII 6-8+R2:5GHz UNII 2C-4+R3:5GHz UNII 1,2A+R4:6GHz UNII 5-8+ R5:Bluetooth+R6:UWB



82	EUT 2_R1:6GHz UNII 6-8+R2:5GHz UNII 2C-4+R3:5GHz UNII 1,2A+ R4:2.4GHz+ R5:Zigbee+R6:UWB
83	EUT 2_R1:6GHz UNII 6-8+R2:5GHz UNII 2C-4+R3:5GHz UNII 1,2A+R4:5GHz UNII 1-4+ R5:Zigbee+R6:UWB
84	EUT 2_R1:6GHz UNII 6-8+R2:5GHz UNII 2C-4+R3:5GHz UNII 1,2A+R4:6GHz UNII 5-8+ R5:Zigbee+R6:UWB
85	EUT 2_R1:6GHz UNII 5+R2:5GHz UNII 1,2A+R3:6GHz UNII 7,8+ R4:2.4GHz+ R5:Bluetooth+R6:UWB
86	EUT 2_R1:6GHz UNII 5+R2:5GHz UNII 1,2A+R3:6GHz UNII 7,8+R4:5GHz UNII 1-4+ R5:Bluetooth+R6:UWB
87	EUT 2_R1:6GHz UNII 5+R2:5GHz UNII 1,2A+R3:6GHz UNII 7,8+R4:6GHz UNII 5-8+ R5:Bluetooth+R6:UWB
88	EUT 2_R1:6GHz UNII 5+R2:5GHz UNII 1,2A+R3:6GHz UNII 7,8+ R4:2.4GHz+ R5:Zigbee+R6:UWB
89	EUT 2_R1:6GHz UNII 5+R2:5GHz UNII 1,2A+R3:6GHz UNII 7,8+R4:5GHz UNII 1-4+ R5:Zigbee+R6:UWB
90	EUT 2_R1:6GHz UNII 5+R2:5GHz UNII 1,2A+R3:6GHz UNII 7,8+R4:6GHz UNII 5-8+ R5:Zigbee+R6:UWB
91	EUT 2_R1:6GHz UNII 5+R2:5GHz UNII 2C-4+R3:6GHz UNII 7,8+ R4:2.4GHz+ R5:Bluetooth+R6:UWB
92	EUT 2_R1:6GHz UNII 5+R2:5GHz UNII 2C-4+R3:6GHz UNII 7,8+R4:5GHz UNII 1-4+ R5:Bluetooth+R6:UWB
93	EUT 2_R1:6GHz UNII 5+R2:5GHz UNII 2C-4+R3:6GHz UNII 7,8+R4:6GHz UNII 5-8+ R5:Bluetooth+R6:UWB
94	EUT 2_R1:6GHz UNII 5+R2:5GHz UNII 2C-4+R3:6GHz UNII 7,8+ R4:2.4GHz+ R5:Zigbee+R6:UWB
95	EUT 2_R1:6GHz UNII 5+R2:5GHz UNII 2C-4+R3:6GHz UNII 7,8+R4:5GHz UNII 1-4+ R5:Zigbee+R6:UWB
96	EUT 2_R1:6GHz UNII 5+R2:5GHz UNII 2C-4+R3:6GHz UNII 7,8+R4:6GHz UNII 5-8+ R5:Zigbee+R6:UWB
97	EUT 3_R2:5GHz UNII 1,2A+R3:2.4GHz+R4:2.4GHz+R5:Bluetooth+R6:UWB
98	EUT 3_R2:5GHz UNII 1,2A+R3:2.4GHz+R4:5GHz UNII 1-3+R5:Bluetooth+R6:UWB
99	EUT 3_R2:5GHz UNII 2C-3+R3:2.4GHz+R4:2.4GHz+R5:Bluetooth+R6:UWB
100	EUT 3_R2:5GHz UNII 2C-3+R3:2.4GHz+R4:5GHz UNII 1-3+R5:Bluetooth+R6:UWB
101	EUT 3_R2:5GHz UNII 1,2A+R3:2.4GHz+R4:2.4GHz+R5:Zigbee+R6:UWB
102	EUT 3_R2:5GHz UNII 1,2A+R3:2.4GHz+R4:5GHz UNII 1-3+R5:Zigbee+R6:UWB
103	EUT 3_R2:5GHz UNII 2C-3+R3:2.4GHz+R4:2.4GHz+R5:Zigbee+R6:UWB
104	EUT 3_R2:5GHz UNII 2C-3+R3:2.4GHz+R4:5GHz UNII 1-3+R5:Zigbee+R6:UWB



105	EUT 3_R2:5GHz UNII 2C-3+R3:5GHz UNII 1,2A+R4:2.4GHz+R5:Bluetooth+R6:UWB
106	EUT 3_R2:5GHz UNII 2C-3+R3:5GHz UNII 1,2A+R4:5GHz UNII 1-3+R5:Bluetooth+R6:UWB
107	EUT 3_R2:5GHz UNII 2C-3+R3:5GHz UNII 1,2A+R4:2.4GHz+R5:Zigbee+R6:UWB
108	EUT 3_R2:5GHz UNII 2C-3+R3:5GHz UNII 1,2A+R4:5GHz UNII 1-3+R5:Zigbee+R6:UWB
Refer to Sporton Test Report No.: FA4O0708 for Co-location RF Exposure Evaluation.	

Note1: R means Radio.

Note2: The PoE is for measurement only, would not be marketed.

The information of PoE as below:

Power	Brand Name	Model Name
PoE	PHIHONG	POE60U-BTA

2.3 EUT Operation during Test

For CTX Mode:

The EUT was programmed to be in continuously transmitting mode.

For Normal Link:

During the test, the EUT operation to normal function.

2.4 Accessories

Accessories
Bracket*1
Antenna Bracket of Ant. 1 (Used for EUT 3) Note

Note: Optional, not sold with EUT.

2.5 Support Equipment

For AC Conduction:

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	PoE	PHIHONG	POE60U-BTA	N/A
B	Flash disk3.0	Transcend	JetFlash-703	N/A
C	ETH0 PC	ASUS	S300TA	TX2-RTL8821CE
D	ETH1 PC	ASUS	S300TA	TX2-RTL8821CE
E	6GH NB	DELL	E6230	N/A
F	5GH NB	DELL	E6430	N/A
G	2.4G NB	DELL	E6430	N/A
H	6G module	INTEL	BE200	PD9BE200NG
I	GPS Simulator	WELNAVIGATE	GS-100	N/A
J	Device	Juniper	AP47	N/A
K	Device PC	ASUS	S300TA	TX2-RTL8821CE

**For Radiated (below 1GHz):**

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	PoE	PHIHONG	POE60U-BTA	N/A
B	10G PC	DELL	T3400	N/A
C	2.4G NB	DELL	E4300	N/A
D	5G NB	DELL	E4300	N/A
E	6G NB	DELL	E4300	N/A
F	GPS Simulator	WELNAVIGATE	GS-100	N/A
G	Device	Juniper	AP47	N/A
H	10G PC	DELL	T3400	N/A
I	Flash disk3.0	Silicon Power	B06	N/A

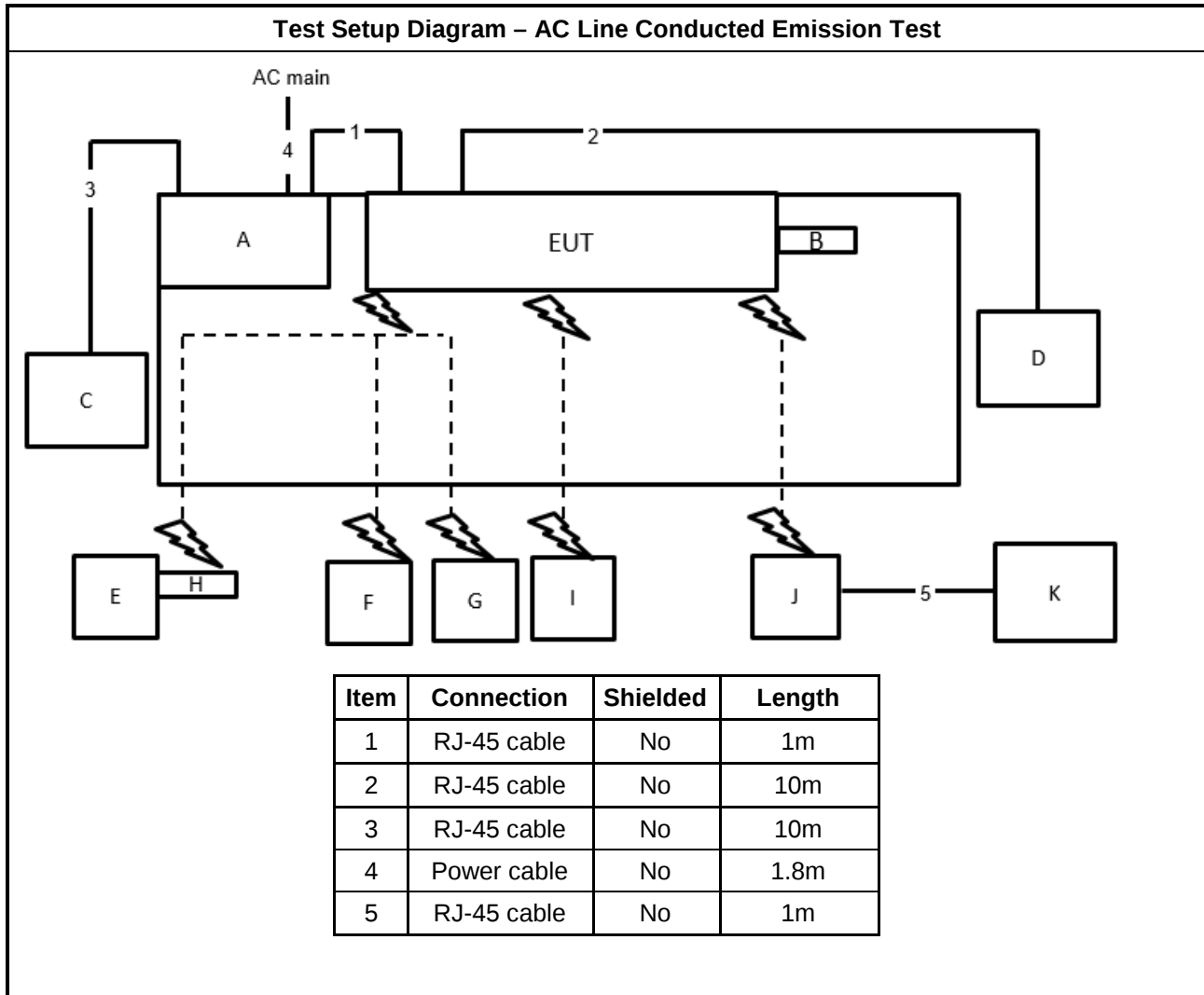
For Radiated (above 1GHz) and RF Conducted (Other tests):

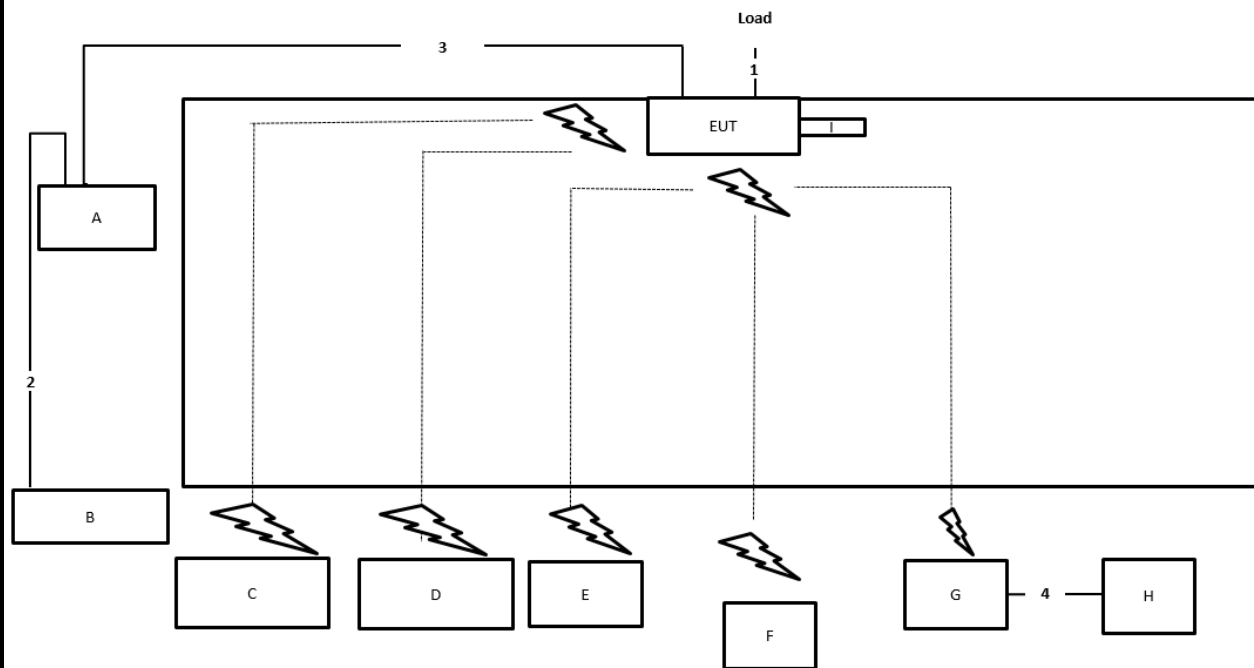
Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	NB	DELL	E4300	N/A
B	PoE	PHIHONG	POE60U-BTA	N/A

For RF Conducted (Contention Based Protocol test):

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	NB	DELL	E4300	N/A
B	NB	DELL	E4300	N/A
C	Client	Juniper	AP47	N/A
D	PoE	PHIHONG	POE60U-BTA	N/A

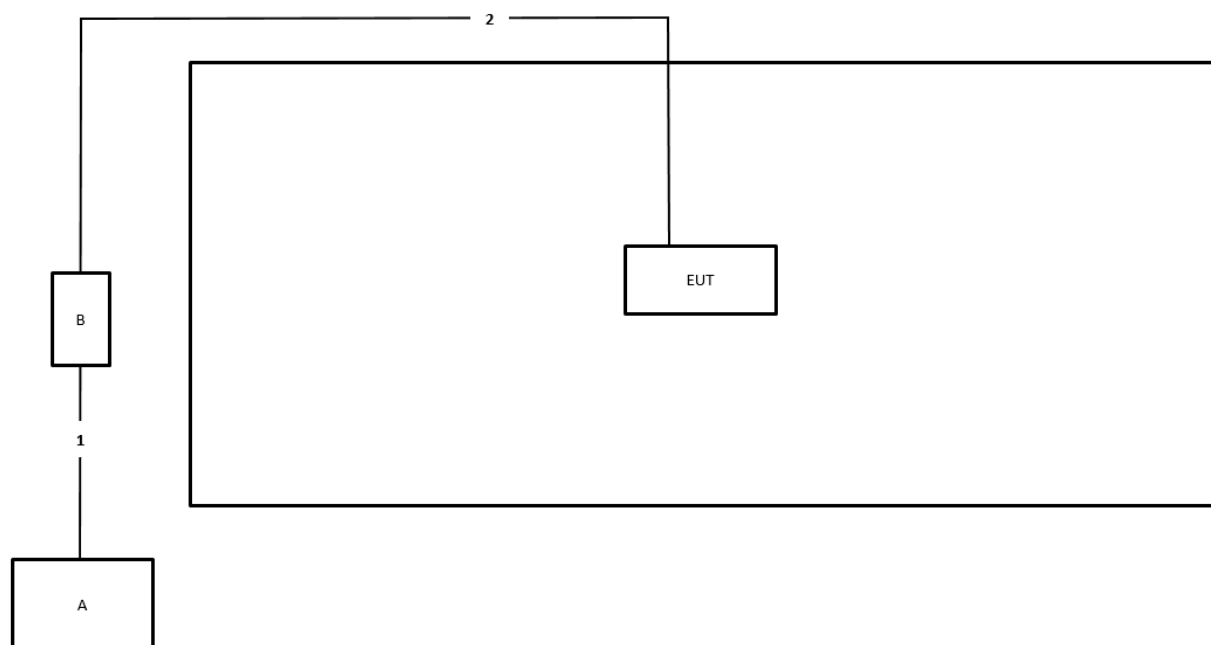
2.6 Test Setup Diagram



Test Setup Diagram - Radiated Test < 1GHz


Item	Connection	Shielded	Length
1	RJ-45 cable(Load*1)	No	1.5m
2	RJ-45 cable	No	1.5m
3	RJ-45 cable	No	10m
4	RJ-45 cable	No	1.5m

Test Setup Diagram - Radiated Test > 1GHz



Item	Connection	Shielded	Length
1	Power cable	No	1.5m
2	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.

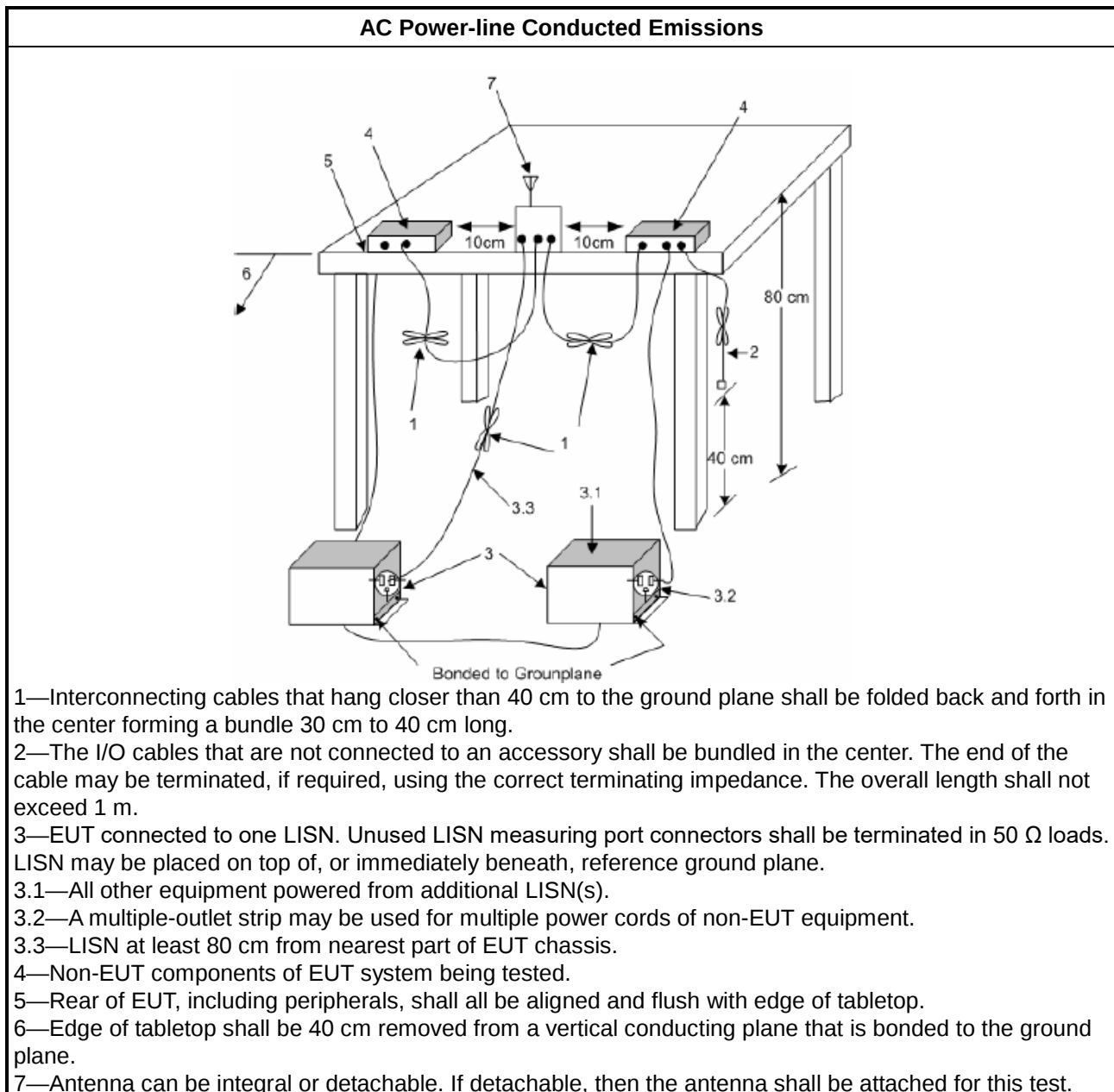
3.1.2 Measuring Instruments

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
- Marginal = - 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

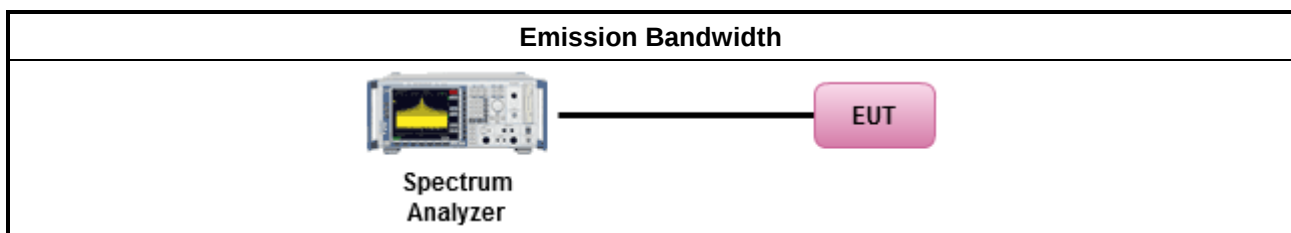
3.2.2 Measuring Instruments

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 Isotopically Radiated Power (E.I.R.P.)

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

Maximum Equivalent Isotopically 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.

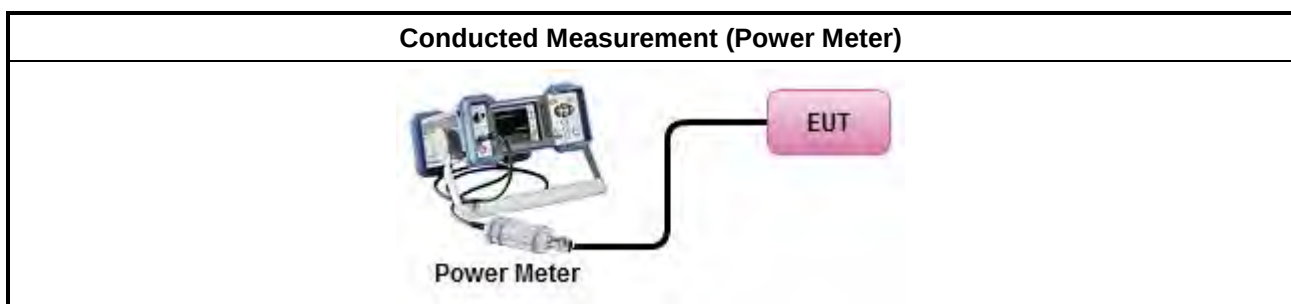
3.3.2 Measuring Instruments

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	
☐	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	
☒	Refer as FCC KDB 789033 D02, clause E Method PM-G (using an RF average power meter).
☒ For conducted measurement.	
If the EUT supports multiple transmit chains using options given below: Refer as FCC KDB 662911, In-band power measurements. Using the measure-and-sum approach, measured all transmit ports individually. Sum the power (in linear power units e.g., mW) of all ports for each individual sample and save them.	
If multiple transmit chains, EIRP calculation could be following as methods: $P_{total} = P_1 + P_2 + \dots + P_n$ (calculated in linear unit [mW] and transfer to log unit [dBm]) $EIRP_{total} = P_{total} + DG$	
☐ For radiated measurement.	
Refer as FCC KDB 789033 D02 clause II A.1.F "Antenna-port Conducted versus Radiated Testing"	
Refer as ANSI C63.10, clause 6.6 for radiated emissions above 1GHz.	
Refer as FCC KDB 412172 D01 clause 2.2 for EIRP calculation.	

3.3.4 Test Setup



3.3.5 Test Result of Maximum Equivalent Isotopically 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.

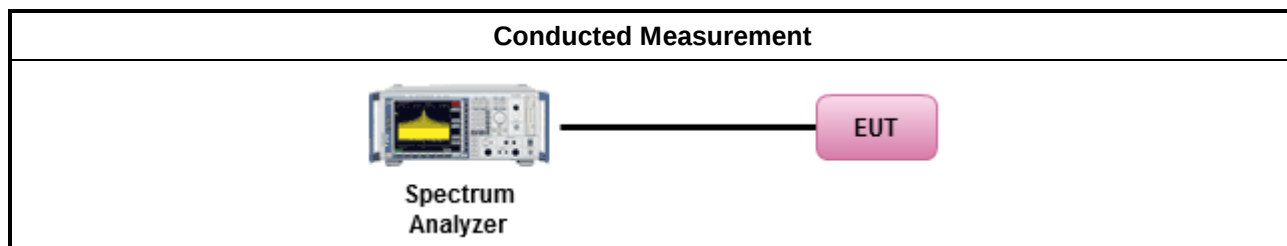
3.4.2 Measuring Instruments

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.
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.
- 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



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

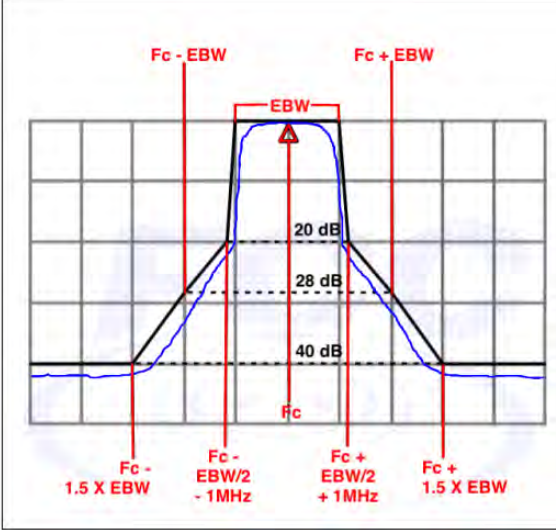
Unwanted emissions below 1 GHz and restricted band emissions above 1GHz limit			
Frequency Range (MHz)	Field Strength (uV/m)	Field Strength (dBuV/m)	Measure Distance (m)
0.009~0.490	2400/F(kHz)	48.5 - 13.8	300
0.490~1.705	24000/F(kHz)	33.8 - 23	30
1.705~30.0	30	29	30
30~88	100	40	3
88~216	150	43.5	3
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 5.945 – 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
5.945 – 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. 



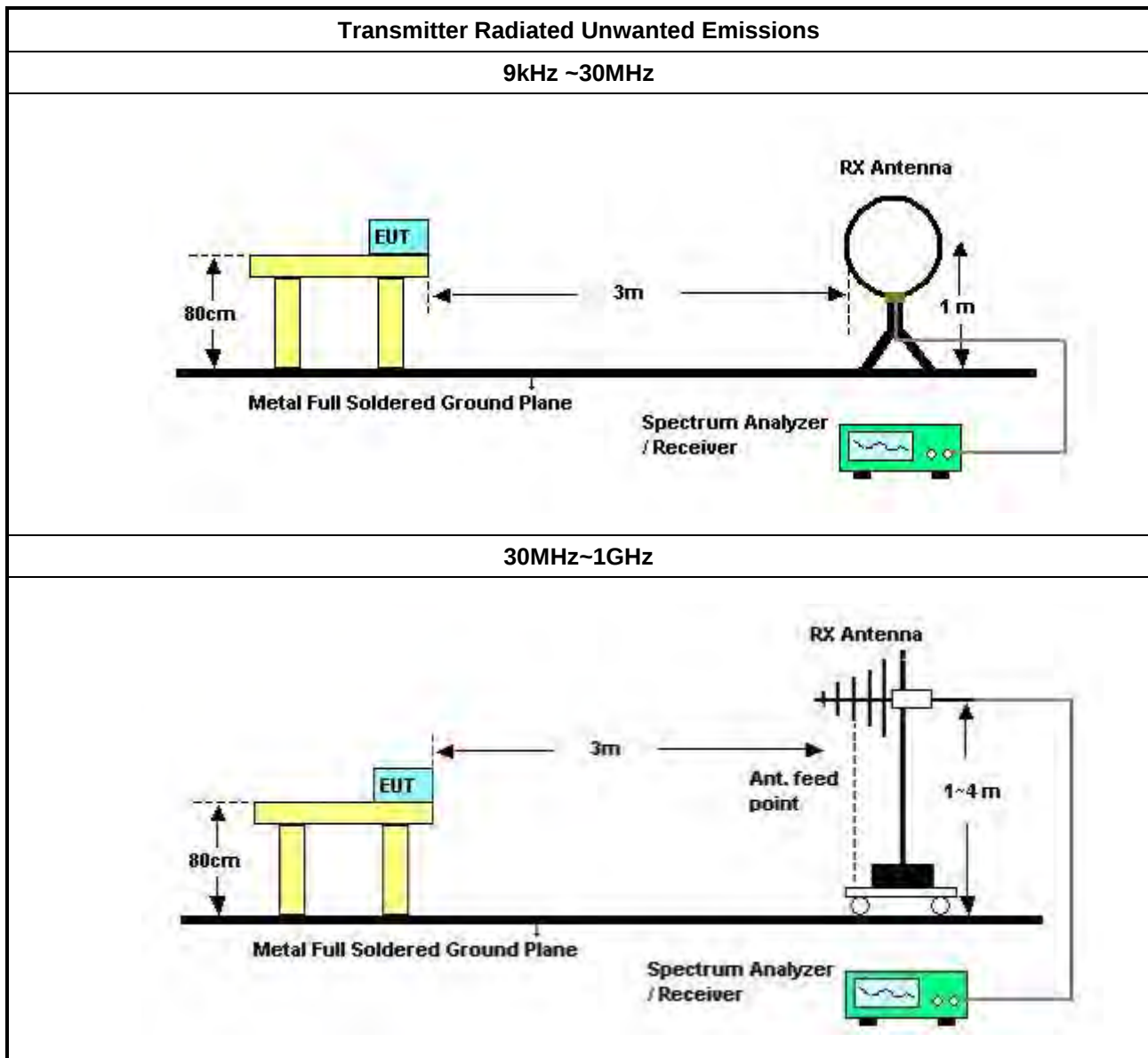
3.5.2 Measuring Instruments

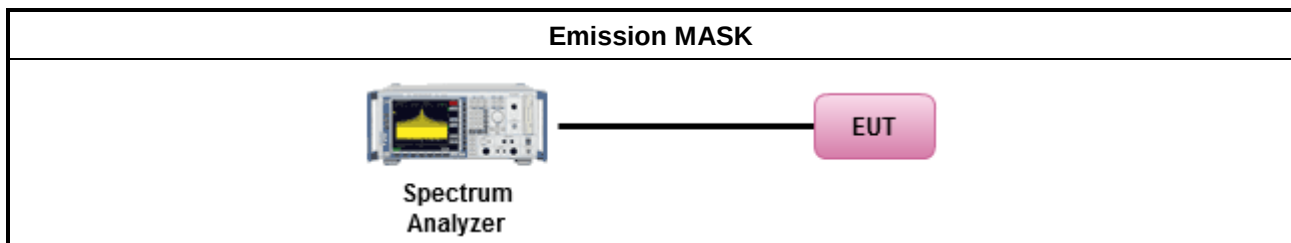
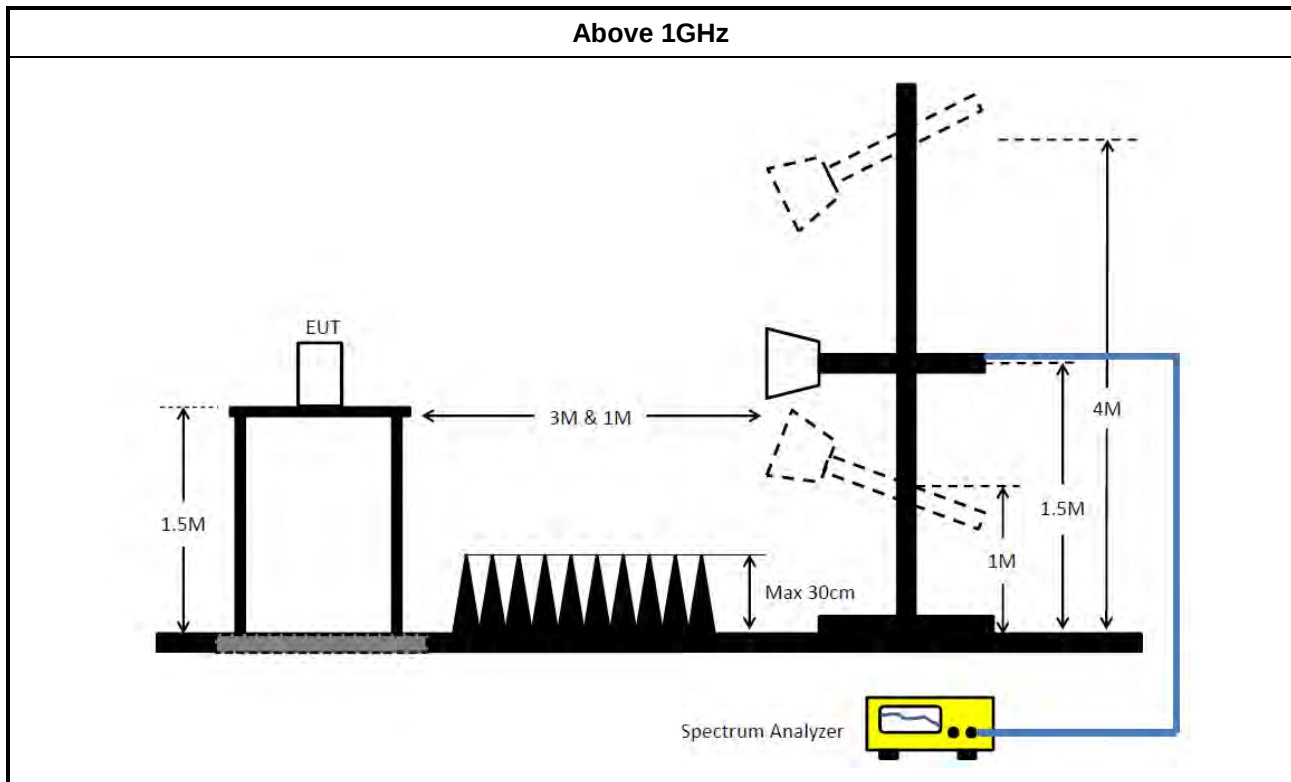
Refer a test equipment and calibration data table in this test report.

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.	

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

3.6 Contention Based Protocol

3.6.1 Contention Based Protocol Limit

EUT can detect an AWGN signal with 90% (or better) level of certainty.

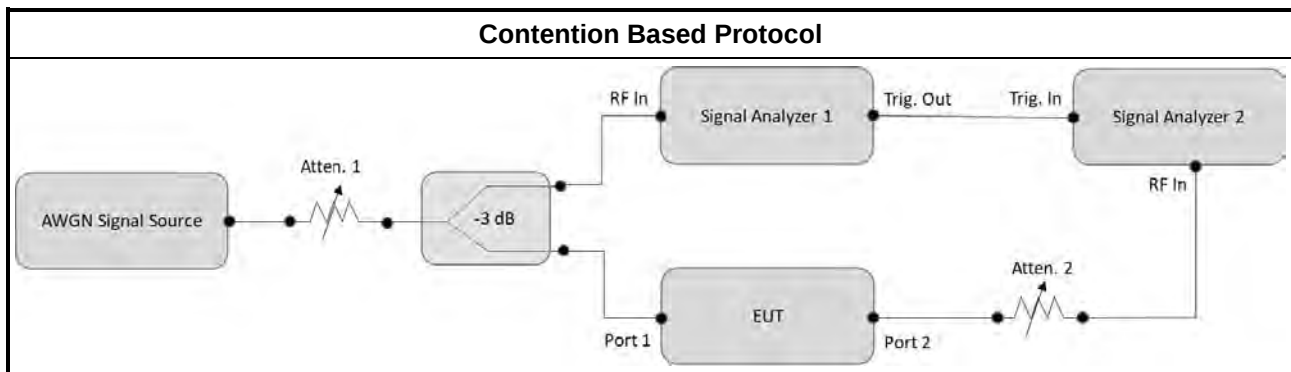
3.6.2 Measuring Instruments

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

3.6.3 Test Procedures

Test Method	
■	For Contention Based Protocol shall be measured using following options below:
☒	Refer as FCC KDB 987594 D02, I) Contention Based Protocol.

3.6.4 Test Setup



3.6.5 Test Result of Contention Based Protocol

Refer as Appendix F



4 Test Equipment and Calibration Data

Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
LISN	Schwarzbeck	NSLK 8127	8127650	9kHz ~ 30MHz	Apr. 15, 2024	Apr. 14, 2025	Conduction (CO02-CB)
LISN	Schwarzbeck	NSLK 8127	8127647	9kHz ~ 30MHz	Apr. 24, 2024	Apr. 23, 2025	Conduction (CO02-CB)
EMI Receiver	Agilent	N9038A	MY52260140	9kHz ~ 8.4GHz	May 15, 2024	May 14, 2025	Conduction (CO02-CB)
COND Cable	Woken	Cable	02	0.15MHz ~ 30MHz	Oct. 16, 2024	Oct. 15, 2025	Conduction (CO02-CB)
Pulse Limiter	Schwarzbeck	VTSD 9561F-N	00378	9kHz ~ 30MHz	Oct. 16, 2024	Oct. 15, 2025	Conduction (CO02-CB)
Test Software	SPORTON	SENSE-EMI	V5.11	150kHz-30MHz	N.C.R.	N.C.R.	Conduction (CO02-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	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)
Pre-Amplifier	SGH	SGH184	20221107-3	18GHz ~ 40GHz	Nov. 24, 2023	Nov. 23, 2024	Radiation (03CH01-CB)
Pre-Amplifier	SGH	SGH184	20221107-3	18GHz ~ 40GHz	Nov. 25, 2024	Nov. 24, 2025	Radiation (03CH01-CB)
Signal Analyzer	R&S	FSV40	101904	9kHz ~ 40GHz	Apr. 26, 2024	Apr. 25, 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)
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)
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)



Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
Pre-Amplifier	SGH	SGH184	20221107-3	18GHz ~ 40GHz	Nov. 24, 2023	Nov. 23, 2024	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)
Test Software	SPORTON	SENSE-15407_NII	V5.11. 23	5.15GHz-7.115GHz	N.C.R.	N.C.R.	Radiation (03CH02-CB)
3m Semi Anechoic Chamber VSWR	TDK	SAC-3M	03CH03-CB	1GHz ~18GHz 3m	May 03, 2024	May 02, 2025	Radiation (03CH03-CB)
Horn Antenna	ETS-Lindgren	3115	6821	750MHz~18GHz z	Jan. 24, 2024	Jan. 23, 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. 24, 2023	Nov. 23, 2024	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)
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)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1370	1GHz~18GHz	Jul. 11, 2024	Jul. 10, 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)



Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
Pre-Amplifier	SGH	SGH184	20221107-3	18GHz ~ 40GHz	Nov. 24, 2023	Nov. 23, 2024	Radiation (03CH04-CB)
Pre-Amplifier	SGH	SGH184	20221107-3	18GHz ~ 40GHz	Nov. 25, 2024	Nov. 24, 2025	Radiation (03CH04-CB)
Spectrum Analyzer	R&S	FSP40	100142	9kHz~40GHz	Mar. 19, 2024	Mar. 18, 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)
Test Software	SPORTON	SENSE-15407_NII	V5.11. 23	5.15GHz-7.115GHz	N.C.R.	N.C.R.	Radiation (03CH04-CB)
Loop Antenna	Teseq	HLA 6121	65417	9kHz - 30 MHz	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)
3m Semi Anechoic Chamber VSWR	TDK	SAC-3M	03CH05-CB	1GHz ~18GHz 3m	Sep. 28, 2024	Sep. 27, 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)
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)
Amplifier	EMCI	EMC330N	980331	20MHz ~ 3GHz	May 02, 2024	May 01, 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. 24, 2023	Nov. 23, 2024	Radiation (03CH05-CB)
Pre-Amplifier	SGH	SGH184	20221107-3	18GHz ~ 40GHz	Nov. 25, 2024	Nov. 24, 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)
RF Cable-high	Woken	RG402	High Cable-28	1GHz~18GHz	Oct. 01, 2024	Sep. 30, 2025	Radiation (03CH05-CB)
RF Cable-high	Woken	RG402	High Cable-04+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
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. 24, 2023	Nov. 23, 2024	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)
Test Software	SPORTON	SENSE-15407_NII	V5.11. 23	5.15GHz-7.115GHz	N.C.R.	N.C.R.	Radiation (03CH06-CB)
Spectrum analyzer	R&S	FSV40	101027	9kHz~40GHz	Aug. 27, 2024	Aug. 26, 2025	Conducted (TH02-CB)
Power Sensor	Anritsu	MA2411B	1126203	300MHz~40GHz	Oct. 18, 2024	Oct. 17, 2025	Conducted (TH02-CB)
Power Meter	Anritsu	ML2495A	1210004	300MHz~40GHz	Oct. 18, 2024	Oct. 17, 2025	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	High Cable-01	1 GHz – 18 GHz	Oct. 01, 2024	Sep. 30, 2025	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	High Cable-02	1 GHz – 18 GHz	Oct. 01, 2024	Sep. 30, 2025	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	High Cable-03	1 GHz – 18 GHz	Oct. 01, 2024	Sep. 30, 2025	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	High Cable-04	1 GHz – 18 GHz	Oct. 01, 2024	Sep. 30, 2025	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	High Cable-05	1 GHz – 18 GHz	Oct. 01, 2024	Sep. 30, 2025	Conducted (TH02-CB)
Switch	SPTCB	SP-SWI	SWI-02	1–18 GHz	Oct. 02, 2024	Oct. 01, 2025	Conducted (TH02-CB)
Test Software	SPORTON	SENSE-15407_NII	V5.11. 23	5.15GHz-7.115GHz	N.C.R.	N.C.R.	Conducted (TH02-CB)



Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101025	9kHz ~ 40GHz	Nov. 08, 2024	Nov. 07, 2025	Conducted (DF02-CB)
Vector Signal Generator	R&S	SMM100A	101894	100kHz ~ 7.5GHz	Oct. 28, 2024	Oct. 27, 2025	Conducted (DF02-CB)
RF Power Divider	STI	2 Way	DV-8G -05	1 ~ 8GHz	Oct. 02, 2024	Oct. 01, 2025	Conducted (DF02-CB)
RF Power Divider	STI	2 Way	DV-8G -06	1 ~ 8GHz	Oct. 02, 2024	Oct. 01, 2025	Conducted (DF02-CB)
RF Power Divider	STI	2 Way	DV-8G -07	1 ~ 8GHz	Oct. 02, 2024	Oct. 01, 2025	Conducted (DF02-CB)
RF Power Divider	STI	2 Way	DV-8G -08	1 ~ 8GHz	Oct. 02, 2024	Oct. 01, 2025	Conducted (DF02-CB)
RF Power Divider	Woken	4 Way	DF02-DV02	1 ~ 6GHz	Oct. 02, 2024	Oct. 01, 2025	Conducted (DF02-CB)
RF Power Divider	Woken	4 Way	DF02-DV04	1 ~ 6GHz	Oct. 02, 2024	Oct. 01, 2025	Conducted (DF02-CB)
RF Power Divider	Woken	4 Way	DF02-DV05	1 ~ 6GHz	Oct. 02, 2024	Oct. 01, 2025	Conducted (DF02-CB)
RF Cable-high	Woken	RG402	Cable-60	1~18 GHz	Oct. 01, 2024	Sep. 30, 2025	Conducted (DF02-CB)
RF Cable-high	Woken	RG402	Cable-61	1~18 GHz	Oct. 01, 2024	Sep. 30, 2025	Conducted (DF02-CB)
RF Cable-high	Woken	RG402	Cable-63	1~18 GHz	Oct. 01, 2024	Sep. 30, 2025	Conducted (DF02-CB)

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

NCR means Non-Calibration required.



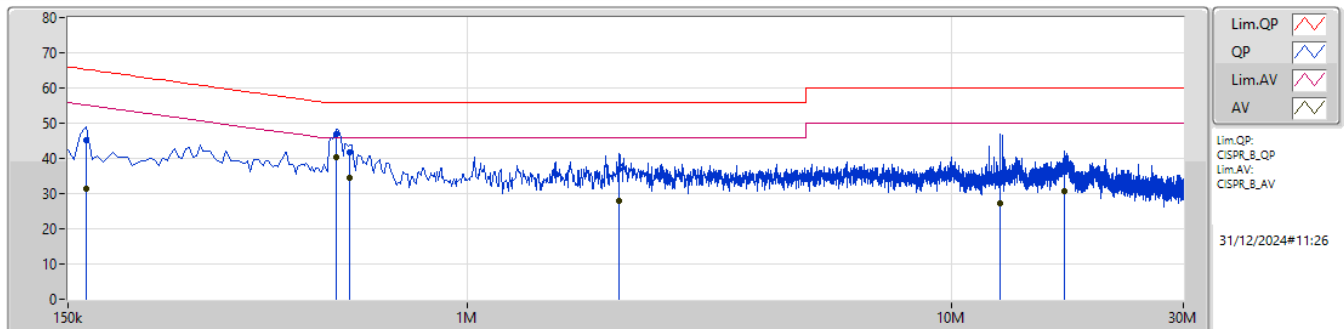
Conducted Emissions at Powerline

Appendix A

Summary

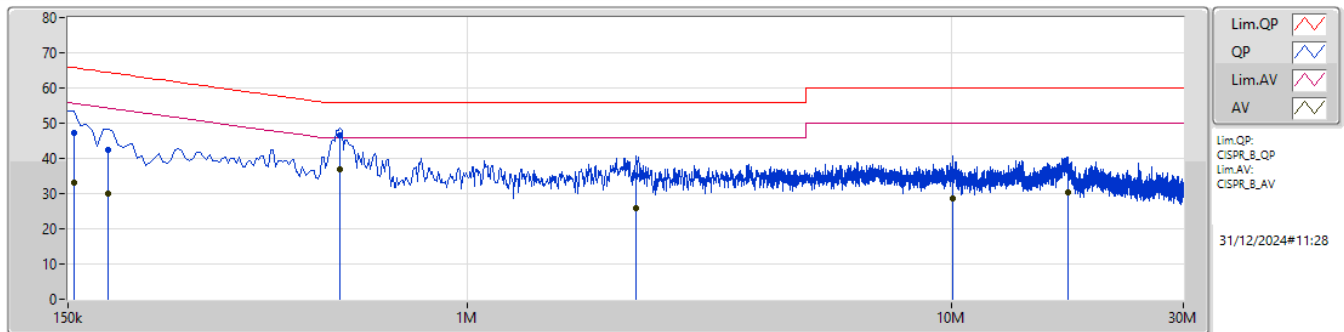
Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 8	Pass	AV	537k	40.48	46.00	-5.52	Line

Mode 8



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)						
QP	163.5k	45.28	65.27	-19.99	10.15	Line	-	35.13	0.05	0.08	10.02						
AV	163.5k	31.53	55.27	-23.74	10.15	Line	-	21.38	0.05	0.08	10.02						
QP	537k	46.85	56.00	-9.15	10.19	Line	-	36.66	0.06	0.10	10.03						
AV	537k	40.48	46.00	-5.52	10.19	Line	"Worst"	30.29	0.06	0.10	10.03						
QP	573k	41.79	56.00	-14.21	10.19	Line	-	31.60	0.06	0.10	10.03						
AV	573k	34.50	46.00	-11.50	10.19	Line	-	24.31	0.06	0.10	10.03						
QP	2.058M	36.96	56.00	-19.04	10.24	Line	-	26.72	0.09	0.14	10.01						
AV	2.058M	27.83	46.00	-18.17	10.24	Line	-	17.59	0.09	0.14	10.01						
QP	12.566M	33.43	60.00	-26.57	10.51	Line	-	22.92	0.30	0.19	10.02						
AV	12.566M	27.33	50.00	-22.67	10.51	Line	-	16.82	0.30	0.19	10.02						
QP	17.039M	37.03	60.00	-22.97	10.65	Line	-	26.38	0.36	0.27	10.02						
AV	17.039M	30.70	50.00	-19.30	10.65	Line	-	20.05	0.36	0.27	10.02						

Mode 8



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)						
QP	154.5k	47.41	65.75	-18.34	10.15	Neutral	-	37.26	0.05	0.08	10.02						
AV	154.5k	33.04	55.75	-22.71	10.15	Neutral	-	22.89	0.05	0.08	10.02						
QP	181.5k	42.38	64.41	-22.03	10.14	Neutral	-	32.24	0.05	0.07	10.02						
AV	181.5k	29.89	54.41	-24.52	10.14	Neutral	-	19.75	0.05	0.07	10.02						
QP	546k	46.68	56.00	-9.32	10.18	Neutral	-	36.50	0.05	0.10	10.03						
AV	546k	36.77	46.00	-9.23	10.18	Neutral	"Worst"	26.59	0.05	0.10	10.03						
QP	2.234M	35.34	56.00	-20.66	10.24	Neutral	-	25.10	0.08	0.14	10.02						
AV	2.234M	25.99	46.00	-20.01	10.24	Neutral	-	15.75	0.08	0.14	10.02						
QP	10.05M	35.92	60.00	-24.08	10.37	Neutral	-	25.55	0.21	0.15	10.01						
AV	10.05M	28.56	50.00	-21.44	10.37	Neutral	-	18.19	0.21	0.15	10.01						
QP	17.3M	36.67	60.00	-23.33	10.54	Neutral	-	26.13	0.25	0.27	10.02						
AV	17.3M	30.34	50.00	-19.66	10.54	Neutral	-	19.80	0.25	0.27	10.02						

Test Mode: Mode 1
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)_4TX	21.78M	19.14M	19M1D1D	21.34M	19.04M
802.11be EHT40_Nss1,(MCS0)_4TX	40.92M	37.881M	37M9D1D	40.26M	37.681M
802.11be EHT80_Nss1,(MCS0)_4TX	82.72M	77.461M	77M5D1D	81.18M	76.662M
802.11be EHT160_Nss1,(MCS0)_4TX	165M	156.922M	157MD1D	163.24M	155.522M
802.11be EHT320_Nss1,(MCS0)_4TX	327.36M	315.842M	316MD1D	325.6M	313.043M
6.425-6.525GHz	-	-	-	-	-
802.11be EHT20_Nss1,(MCS0)_4TX	21.78M	19.14M	19M1D1D	21.12M	19.065M
802.11be EHT40_Nss1,(MCS0)_4TX	40.92M	37.831M	37M8D1D	40.48M	37.731M
802.11be EHT80_Nss1,(MCS0)_4TX	82.5M	77.261M	77M3D1D	81.4M	77.161M
802.11be EHT160_Nss1,(MCS0)_4TX	165.44M	156.722M	157MD1D	164.12M	156.322M
802.11be EHT320_Nss1,(MCS0)_4TX	327.36M	316.242M	316MD1D	326.48M	315.442M
6.525-6.875GHz	-	-	-	-	-
802.11be EHT20_Nss1,(MCS0)_4TX	21.615M	19.115M	19M1D1D	21.395M	19.04M
802.11be EHT40_Nss1,(MCS0)_4TX	41.14M	37.831M	37M8D1D	40.26M	37.731M
802.11be EHT80_Nss1,(MCS0)_4TX	82.5M	77.361M	77M4D1D	81.4M	77.061M
802.11be EHT160_Nss1,(MCS0)_4TX	165.44M	156.522M	157MD1D	164.12M	156.122M
802.11be EHT320_Nss1,(MCS0)_4TX	345.84M	316.242M	316MD1D	326.48M	315.042M
6.875-7.125GHz	-	-	-	-	-
802.11be EHT20_Nss1,(MCS0)_4TX	21.725M	19.115M	19M1D1D	21.285M	19.04M
802.11be EHT40_Nss1,(MCS0)_4TX	40.92M	37.831M	37M8D1D	40.26M	37.681M
802.11be EHT80_Nss1,(MCS0)_4TX	82.72M	77.361M	77M4D1D	81.4M	77.161M
802.11be EHT160_Nss1,(MCS0)_4TX	165.44M	156.522M	157MD1D	164.12M	156.322M

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

Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)	Port 3-N dB (Hz)	Port 3-OBW (Hz)	Port 4-N dB (Hz)	Port 4-OBW (Hz)
802.11be EHT20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5955MHz	Pass	Inf	21.34M	19.065M	21.34M	19.04M	21.395M	19.14M	21.67M	19.065M
6195MHz	Pass	Inf	21.67M	19.09M	21.45M	19.09M	21.505M	19.09M	21.78M	19.04M
6415MHz	Pass	Inf	21.505M	19.09M	21.45M	19.04M	21.505M	19.115M	21.45M	19.04M
6435MHz	Pass	Inf	21.67M	19.065M	21.505M	19.09M	21.505M	19.065M	21.12M	19.065M
6475MHz	Pass	Inf	21.56M	19.115M	21.615M	19.065M	21.505M	19.14M	21.505M	19.065M
6515MHz	Pass	Inf	21.78M	19.065M	21.505M	19.115M	21.615M	19.115M	21.45M	19.065M
6535MHz	Pass	Inf	21.615M	19.04M	21.615M	19.065M	21.615M	19.065M	21.395M	19.09M
6695MHz	Pass	Inf	21.615M	19.09M	21.56M	19.115M	21.45M	19.09M	21.395M	19.09M
6875MHz	Pass	Inf	21.45M	19.09M	21.505M	19.065M	21.615M	19.09M	21.56M	19.09M
6895MHz	Pass	Inf	21.67M	19.09M	21.56M	19.065M	21.725M	19.115M	21.395M	19.09M
6995MHz	Pass	Inf	21.615M	19.115M	21.505M	19.065M	21.45M	19.065M	21.34M	19.09M
7095MHz	Pass	Inf	21.395M	19.09M	21.395M	19.065M	21.67M	19.09M	21.285M	19.04M
802.11be EHT40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5965MHz	Pass	Inf	40.26M	37.681M	40.37M	37.681M	40.37M	37.731M	40.26M	37.731M
6205MHz	Pass	Inf	40.92M	37.831M	40.59M	37.731M	40.81M	37.881M	40.59M	37.781M
6405MHz	Pass	Inf	40.81M	37.781M	40.48M	37.731M	40.81M	37.781M	40.48M	37.681M
6445MHz	Pass	Inf	40.7M	37.781M	40.48M	37.781M	40.81M	37.781M	40.59M	37.781M
6485MHz	Pass	Inf	40.92M	37.781M	40.48M	37.781M	40.7M	37.831M	40.48M	37.731M
6525MHz	Pass	Inf	40.81M	37.781M	40.48M	37.781M	40.7M	37.731M	40.48M	37.781M
6565MHz	Pass	Inf	40.92M	37.781M	40.59M	37.781M	40.81M	37.781M	40.7M	37.781M
6685MHz	Pass	Inf	40.92M	37.781M	40.26M	37.781M	40.59M	37.781M	40.48M	37.731M
6885MHz	Pass	Inf	41.14M	37.831M	40.26M	37.781M	40.59M	37.731M	40.48M	37.781M
6925MHz	Pass	Inf	40.92M	37.781M	40.59M	37.681M	40.7M	37.781M	40.59M	37.781M
7005MHz	Pass	Inf	40.81M	37.781M	40.7M	37.731M	40.7M	37.731M	40.7M	37.731M
7085MHz	Pass	Inf	40.92M	37.831M	40.26M	37.781M	40.81M	37.781M	40.81M	37.731M
802.11be EHT80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5985MHz	Pass	Inf	82.28M	76.762M	81.18M	76.662M	81.18M	76.862M	81.4M	76.762M
6225MHz	Pass	Inf	82.72M	77.461M	81.84M	77.161M	82.06M	77.461M	81.62M	77.261M
6385MHz	Pass	Inf	81.84M	77.261M	81.62M	77.061M	81.4M	77.161M	81.18M	77.161M
6465MHz	Pass	Inf	82.5M	77.261M	81.4M	77.261M	81.84M	77.261M	81.84M	77.261M
6545MHz	Pass	Inf	82.06M	77.261M	82.06M	77.261M	81.62M	77.261M	81.84M	77.161M
6625MHz	Pass	Inf	82.5M	77.261M	81.4M	77.261M	82.5M	77.161M	81.62M	77.361M
6705MHz	Pass	Inf	82.28M	77.361M	81.62M	77.061M	81.62M	77.261M	81.4M	77.361M
6785MHz	Pass	Inf	82.28M	77.261M	81.84M	77.261M	81.62M	77.261M	82.28M	77.261M
6865MHz	Pass	Inf	82.28M	77.261M	81.62M	77.361M	81.62M	77.161M	82.06M	77.261M
6945MHz	Pass	Inf	82.72M	77.361M	82.06M	77.261M	81.84M	77.261M	82.06M	77.261M
7025MHz	Pass	Inf	82.28M	77.161M	81.84M	77.261M	81.4M	77.161M	81.62M	77.161M
802.11be EHT160_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
6025MHz	Pass	Inf	165M	155.722M	163.68M	155.522M	164.12M	155.922M	163.68M	155.922M
6185MHz	Pass	Inf	164.56M	156.922M	164.56M	156.722M	164.56M	156.722M	164.12M	156.722M
6345MHz	Pass	Inf	164.56M	156.322M	164.56M	155.922M	163.24M	156.522M	163.68M	156.322M
6505MHz	Pass	Inf	165M	156.722M	165.44M	156.322M	165.44M	156.322M	164.12M	156.522M
6665MHz	Pass	Inf	165M	156.322M	164.12M	156.322M	164.56M	156.322M	165M	156.322M
6825MHz	Pass	Inf	164.12M	156.522M	165.44M	156.322M	165.44M	156.122M	164.12M	156.322M
6985MHz	Pass	Inf	165.44M	156.522M	164.56M	156.322M	164.12M	156.522M	164.56M	156.322M
802.11be EHT320_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
6105MHz	Pass	Inf	326.48M	313.443M	325.6M	313.043M	326.48M	314.243M	326.48M	313.443M
6265MHz	Pass	Inf	326.48M	315.842M	327.36M	315.442M	326.48M	315.442M	327.36M	315.042M
6585MHz	Pass	Inf	327.36M	315.842M	326.48M	315.442M	327.36M	316.242M	327.36M	315.842M
6745MHz	Pass	Inf	327.36M	315.042M	327.36M	315.042M	326.48M	315.442M	327.36M	315.442M
6905MHz	Pass	Inf	326.48M	316.242M	326.48M	315.842M	345.84M	316.242M	344.08M	316.242M

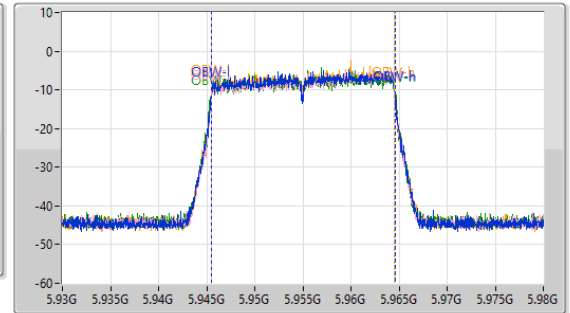
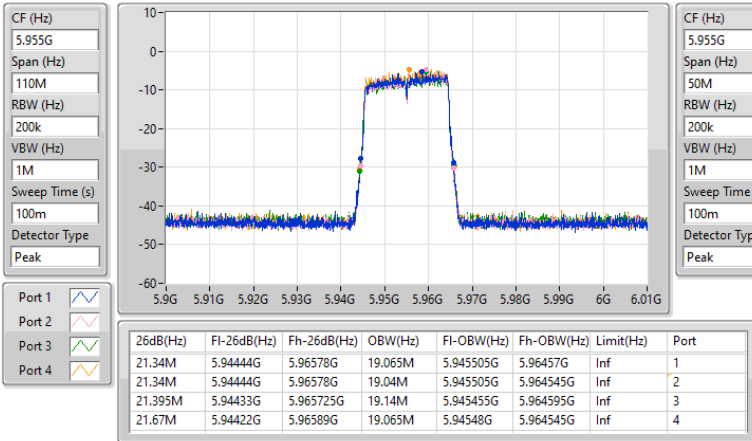
Port X-N dB = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band
Port X-OBW = Port X 99% occupied bandwidth

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

EBW

5955MHz

23/10/2024

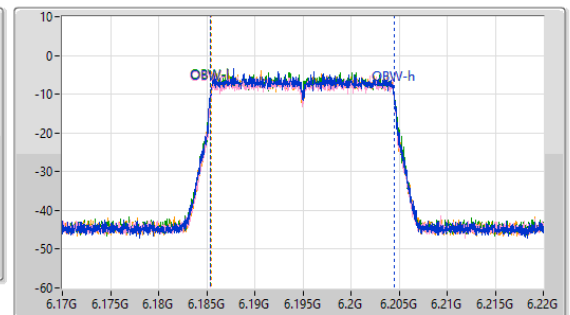
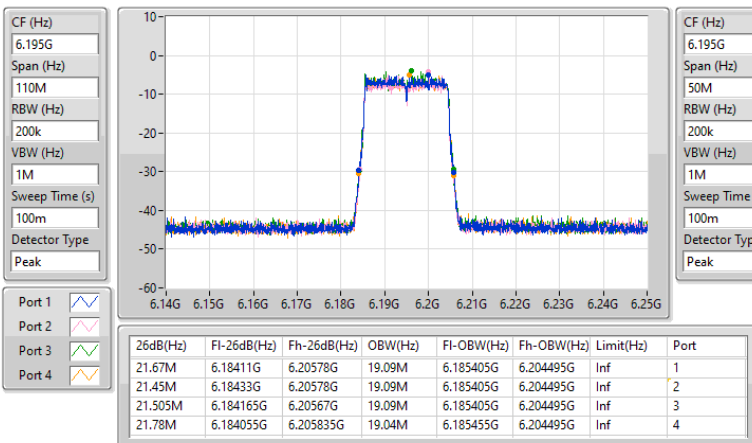


5.925-6.425GHz_802.11be EHT20_Nss1,(MCS0)_4TX

EBW

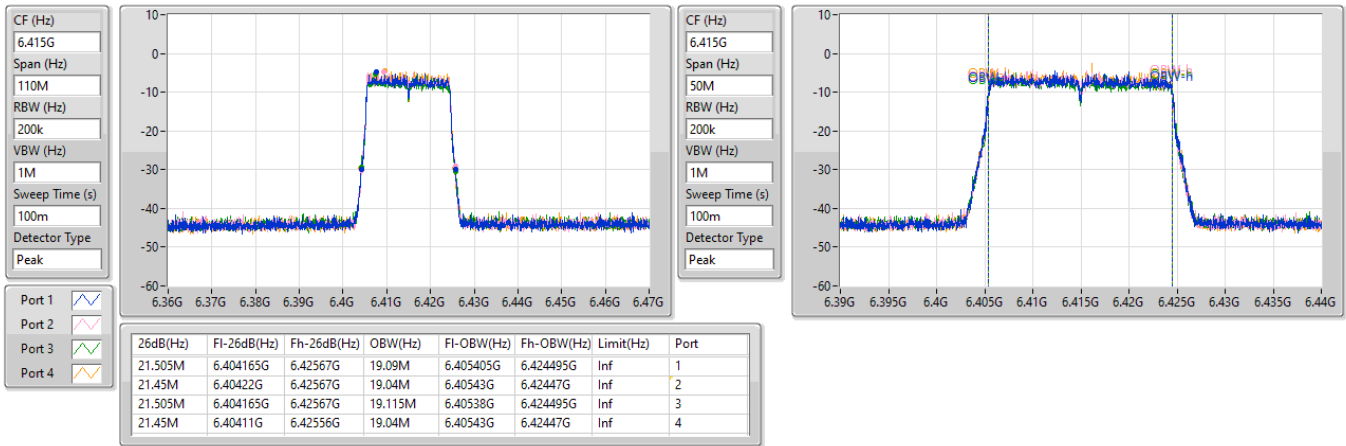
6195MHz

23/10/2024

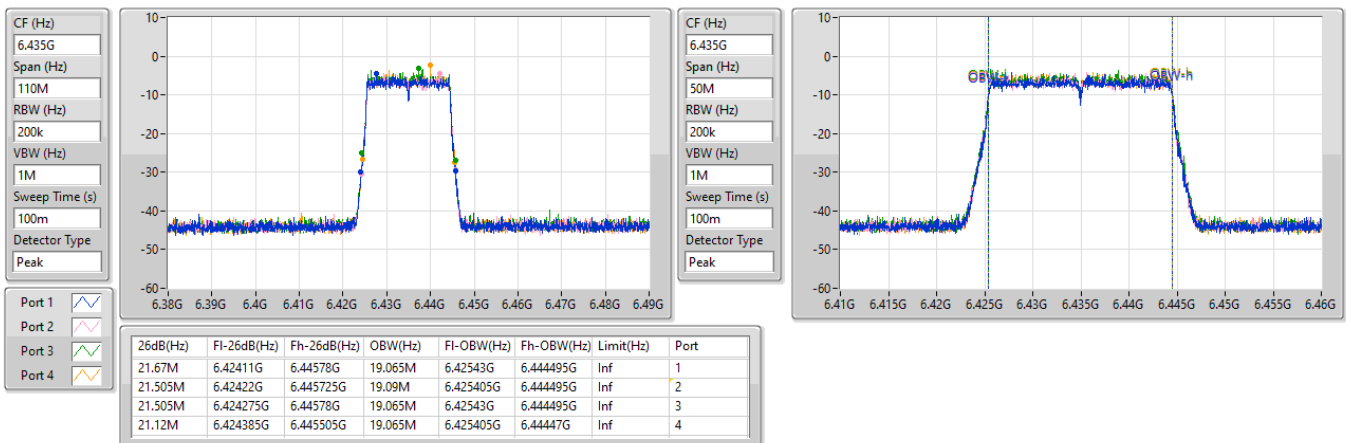


5.925-6.425GHz_802.11be EHT20_Nss1,(MCS0)_4TX
EBW
6415MHz

23/10/2024


6.425-6.525GHz_802.11be EHT20_Nss1,(MCS0)_4TX
EBW
6435MHz

23/10/2024

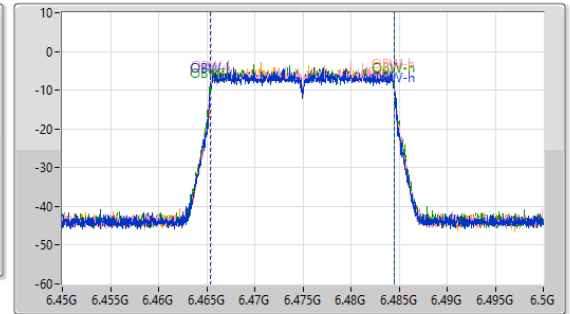
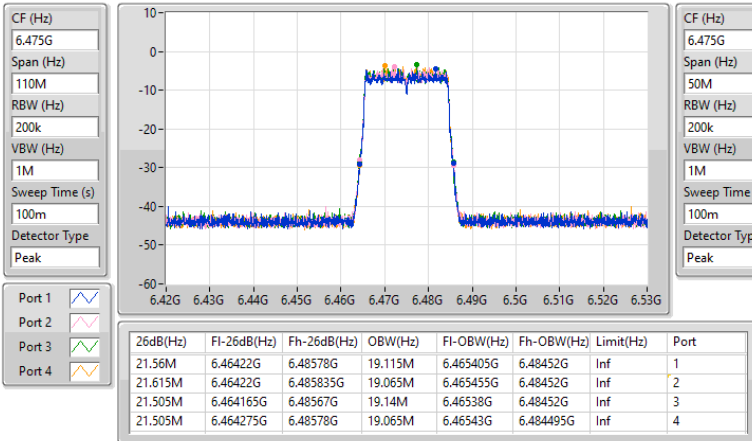


6.425-6.525GHz_802.11be EHT20_Nss1,(MCS0)_4TX

EBW

6475MHz

23/10/2024

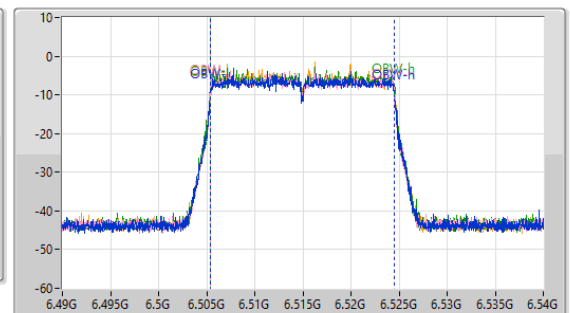
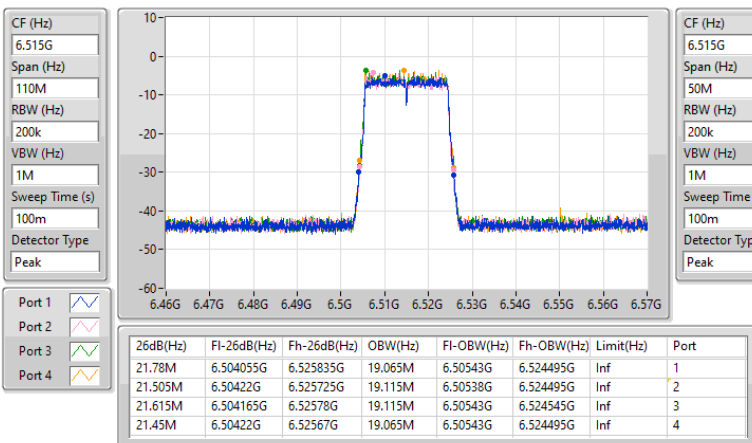


6.425-6.525GHz_802.11be EHT20_Nss1,(MCS0)_4TX

EBW

6515MHz

23/10/2024

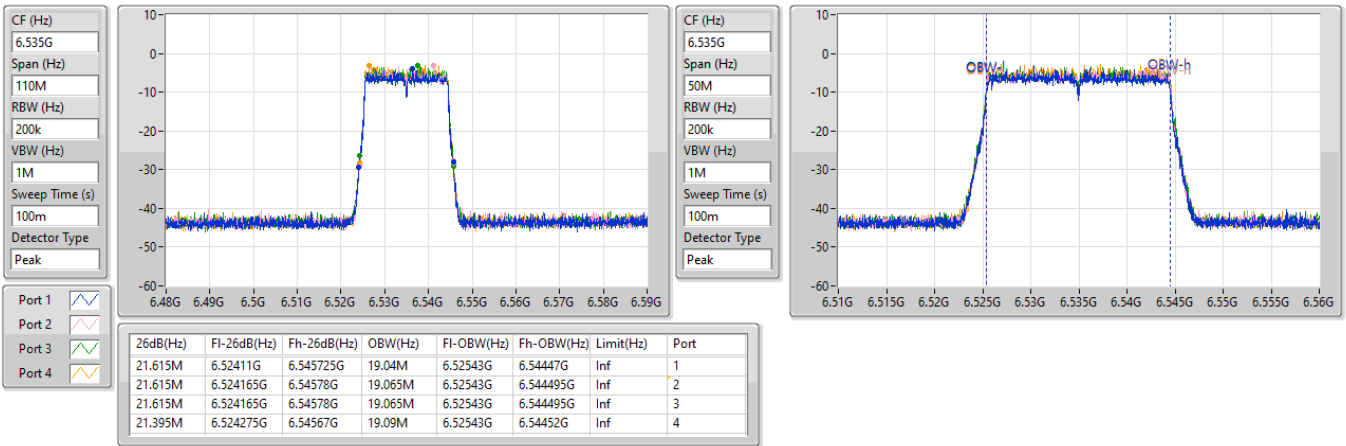


6.525-6.875GHz_802.11be EHT20_Nss1,(MCS0)_4TX

EBW

6535MHz

23/10/2024

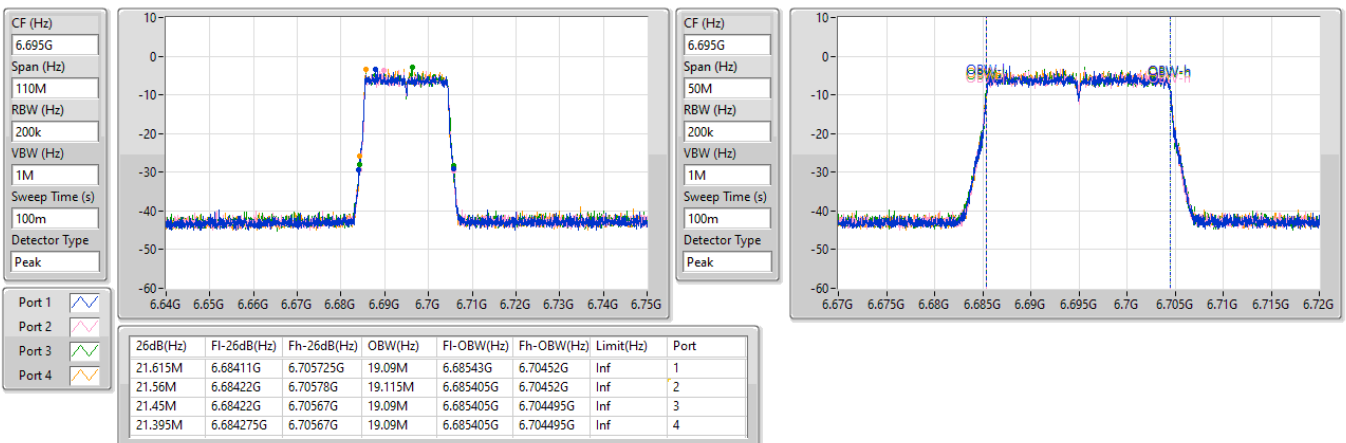


6.525-6.875GHz_802.11be EHT20_Nss1,(MCS0)_4TX

EBW

6695MHz

23/10/2024

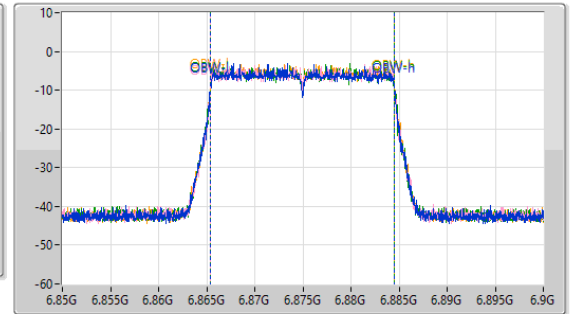
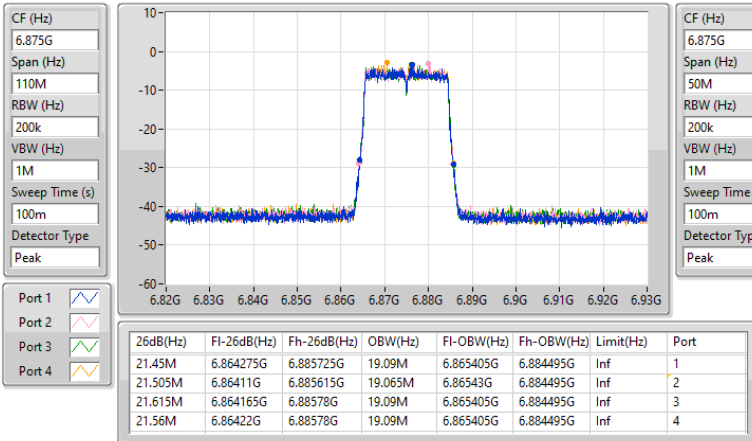


6.525-6.875GHz_802.11be EHT20_Nss1,(MCS0)_4TX

EBW

6875MHz

23/10/2024

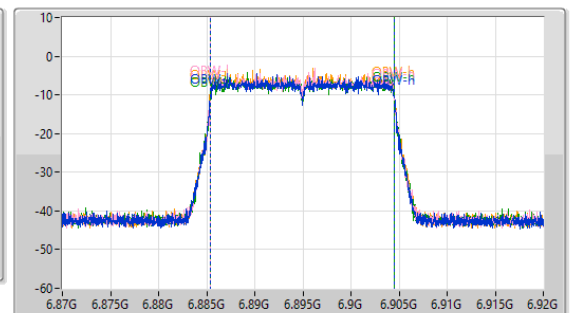
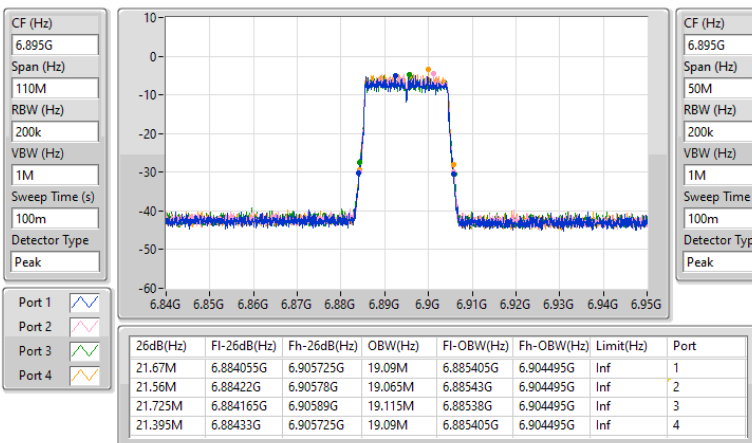


6.875-7.125GHz_802.11be EHT20_Nss1,(MCS0)_4TX

EBW

6895MHz

23/10/2024

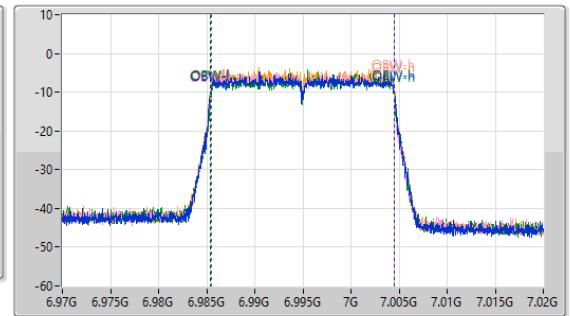
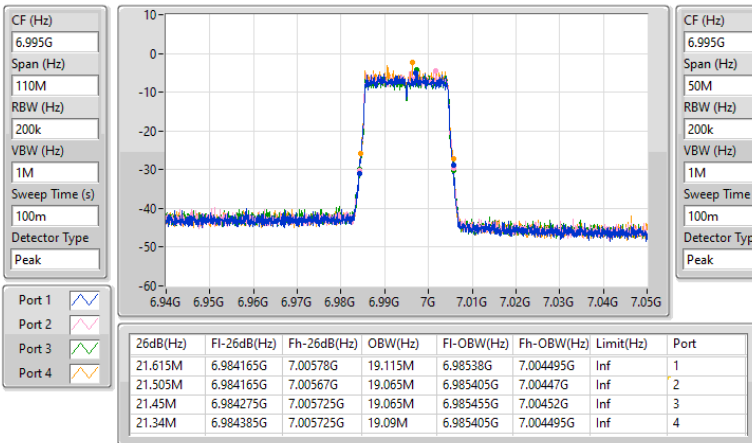


6.875-7.125GHz_802.11be EHT20_Nss1,(MCS0)_4TX

EBW

6995MHz

23/10/2024

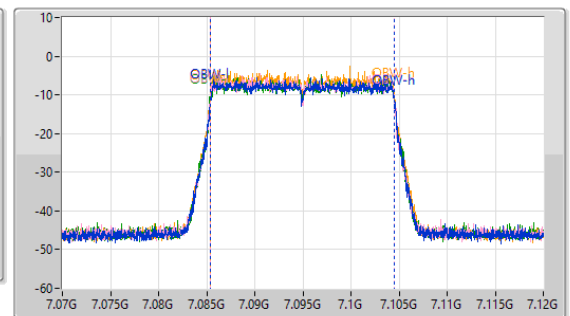
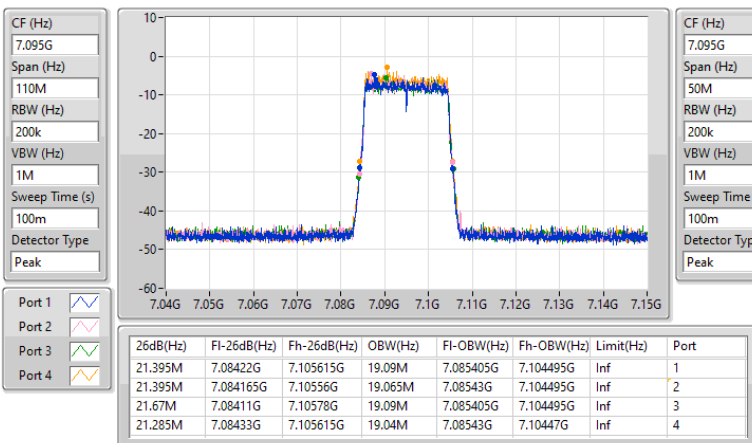


6.875-7.125GHz_802.11be EHT20_Nss1,(MCS0)_4TX

EBW

7095MHz

23/10/2024

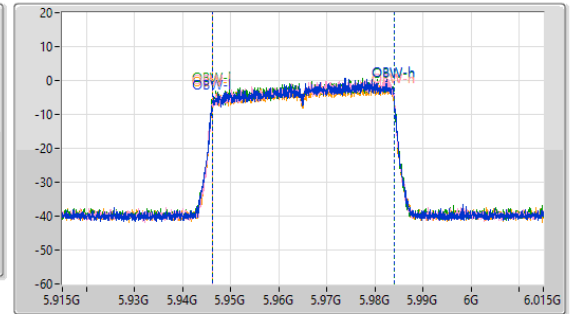
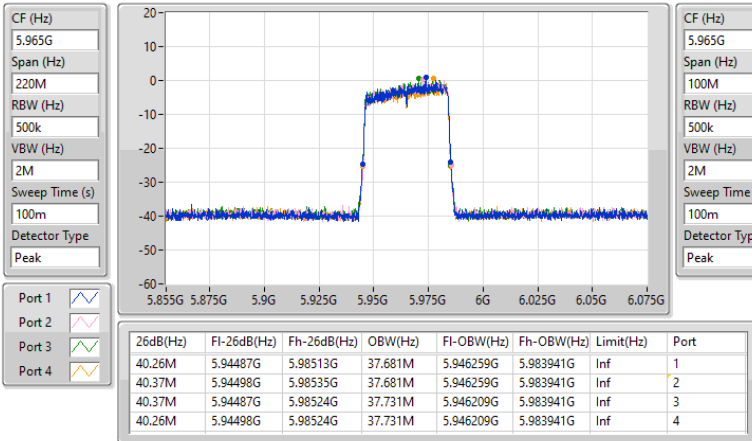


5.925-6.425GHz_802.11be EHT40_Nss1,(MCS0)_4TX

EBW

5965MHz

23/10/2024

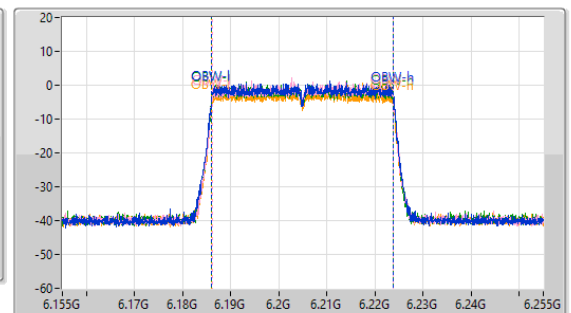
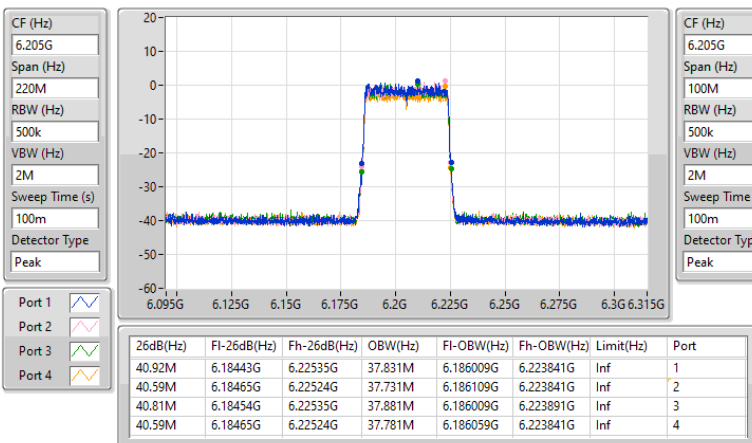


5.925-6.425GHz_802.11be EHT40_Nss1,(MCS0)_4TX

EBW

6205MHz

23/10/2024

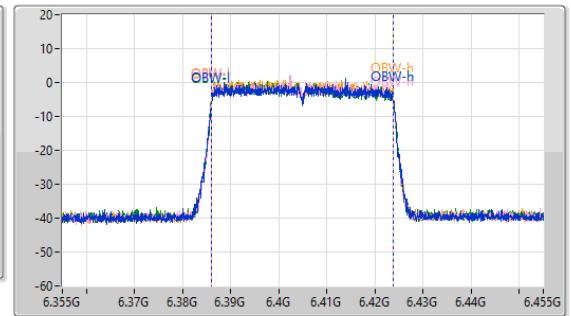
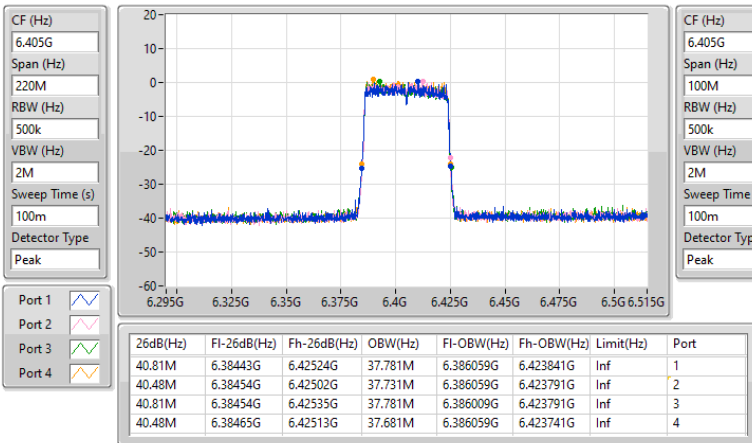


5.925-6.425GHz_802.11be EHT40_Nss1,(MCS0)_4TX

EBW

6405MHz

23/10/2024

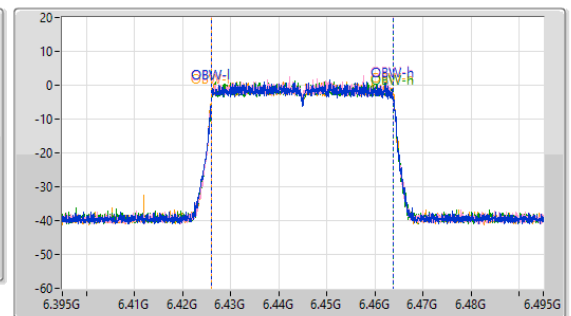
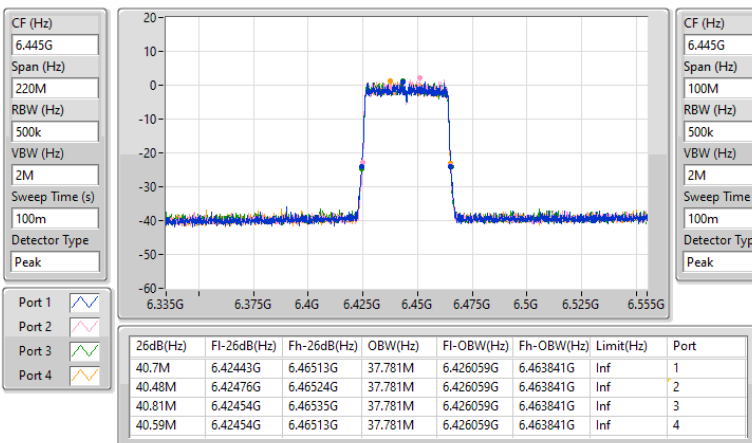


6.425-6.525GHz_802.11be EHT40_Nss1,(MCS0)_4TX

EBW

6445MHz

23/10/2024

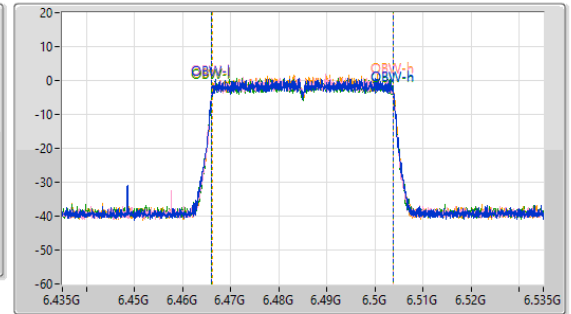
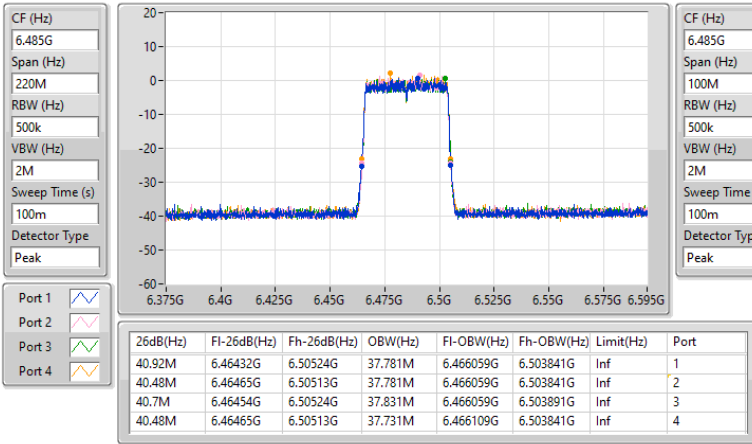


6.425-6.525GHz_802.11be EHT40_Nss1,(MCS0)_4TX

EBW

6485MHz

23/10/2024

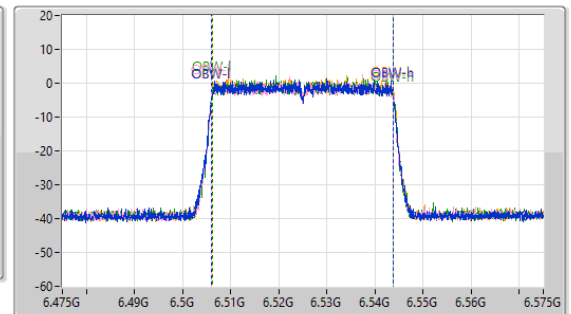
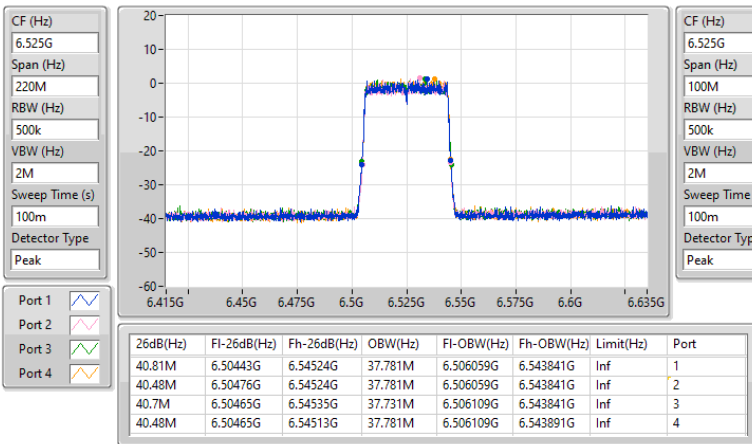


6.425-6.525GHz_802.11be EHT40_Nss1,(MCS0)_4TX

EBW

6525MHz

24/10/2024

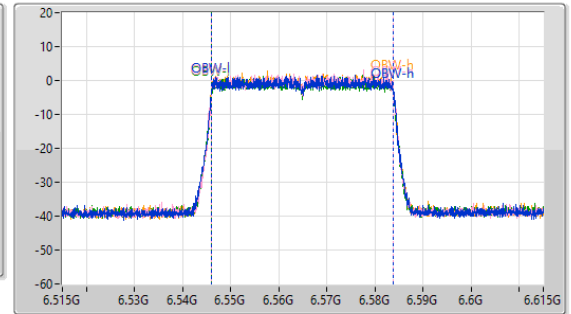
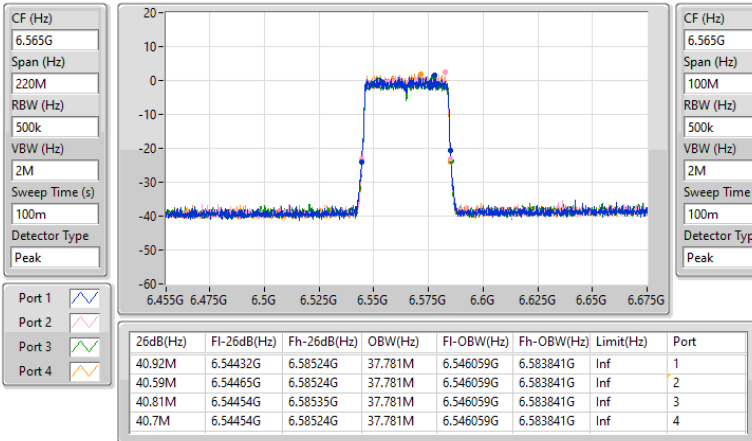


6.525-6.875GHz_802.11be EHT40_Nss1,(MCS0)_4TX

EBW

6565MHz

24/10/2024

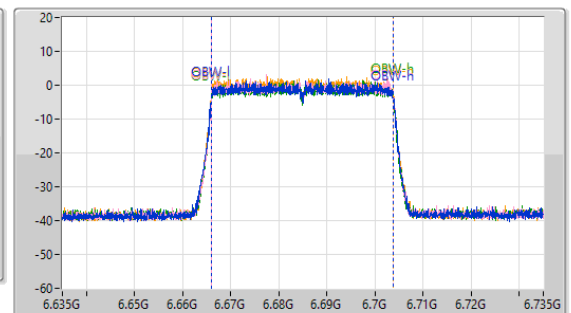
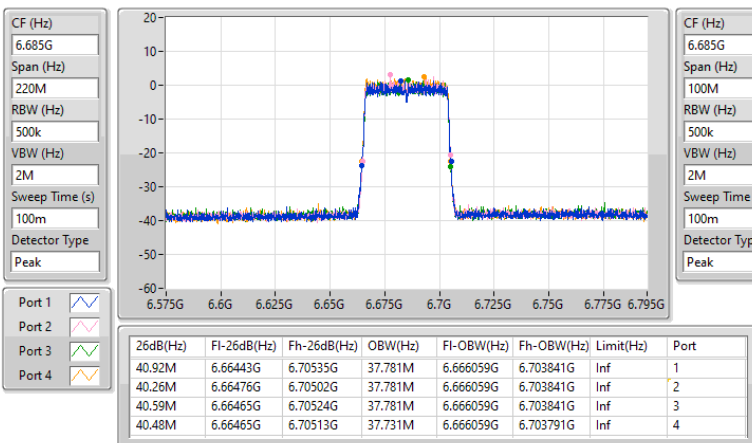


6.525-6.875GHz_802.11be EHT40_Nss1,(MCS0)_4TX

EBW

6685MHz

24/10/2024

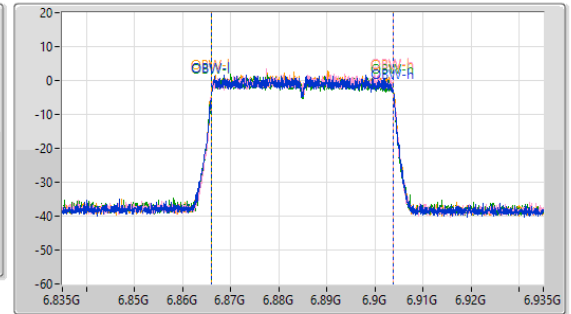
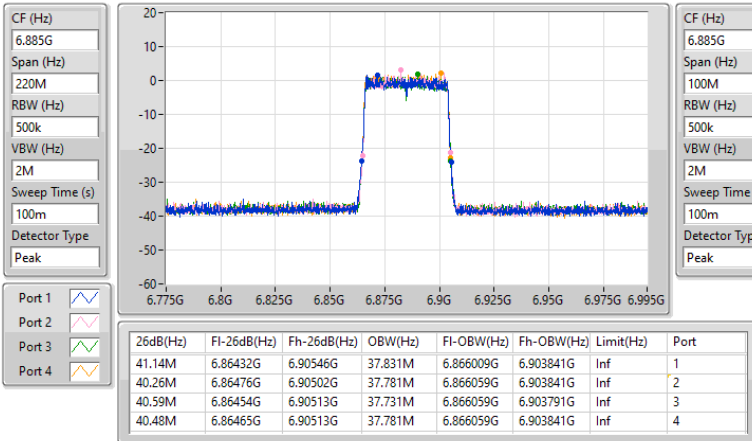


6.525-6.875GHz_802.11be EHT40_Nss1,(MCS0)_4TX

EBW

6885MHz

24/10/2024

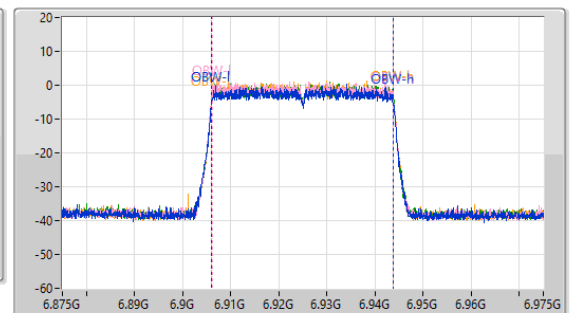
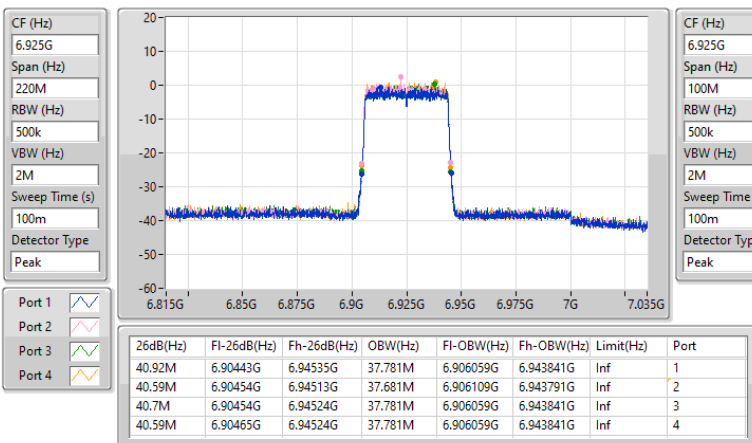


6.875-7.125GHz_802.11be EHT40_Nss1,(MCS0)_4TX

EBW

6925MHz

24/10/2024

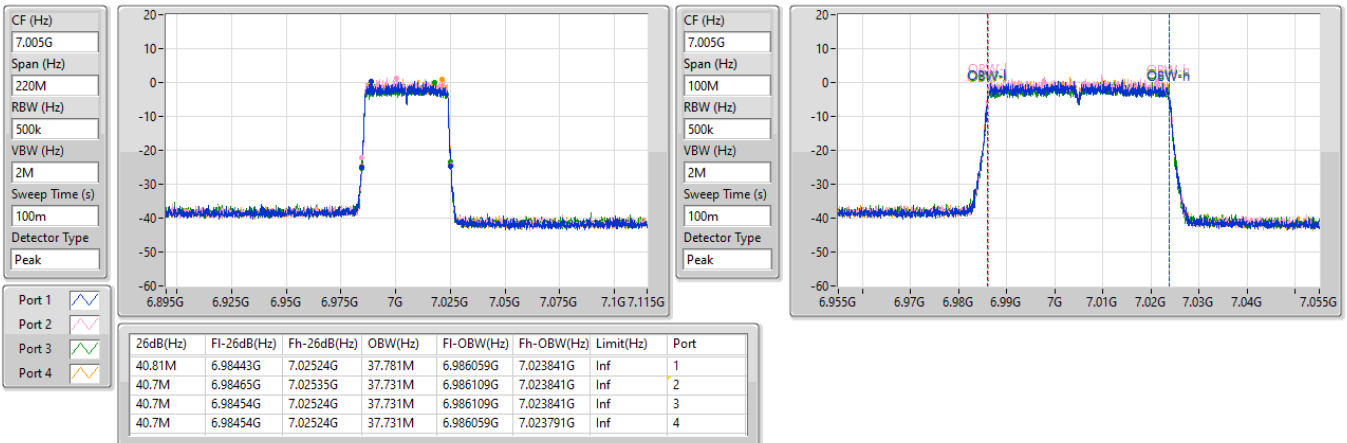


6.875-7.125GHz_802.11be EHT40_Nss1,(MCS0)_4TX

EBW

7005MHz

24/10/2024

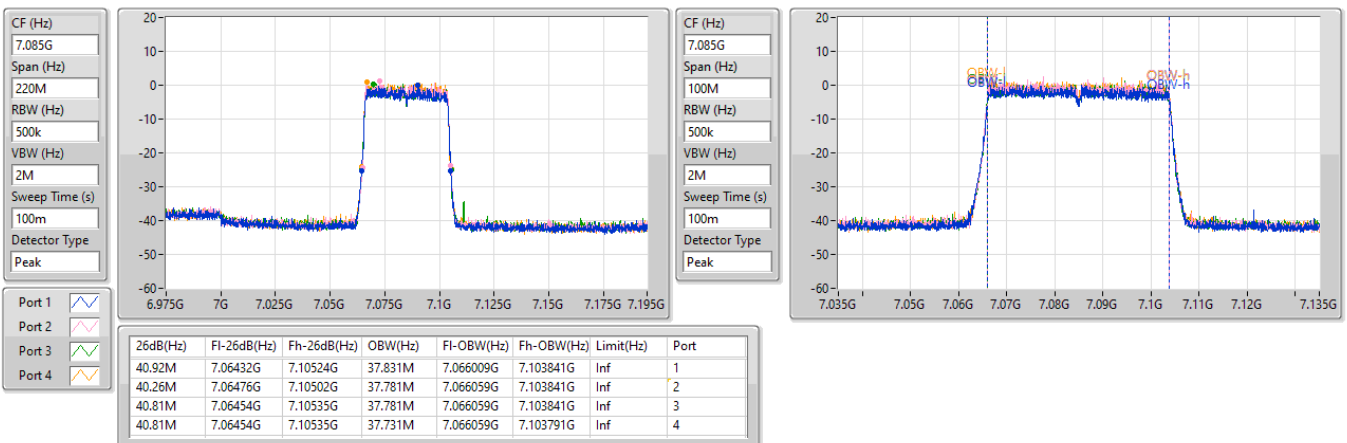


6.875-7.125GHz_802.11be EHT40_Nss1,(MCS0)_4TX

EBW

7085MHz

24/10/2024

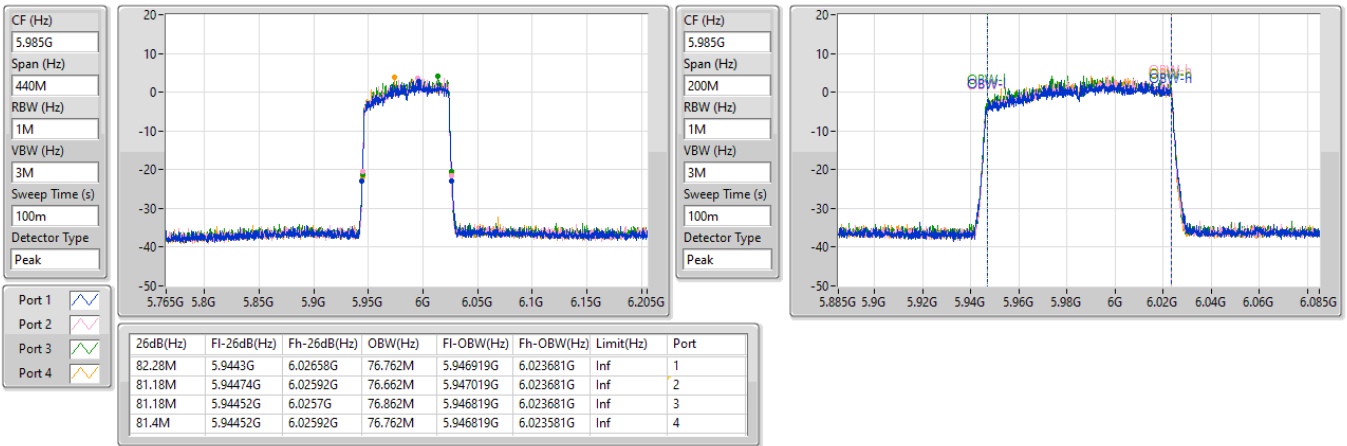


5.925-6.425GHz_802.11be EHT80_Nss1,(MCS0)_4TX

EBW

5985MHz

23/10/2024

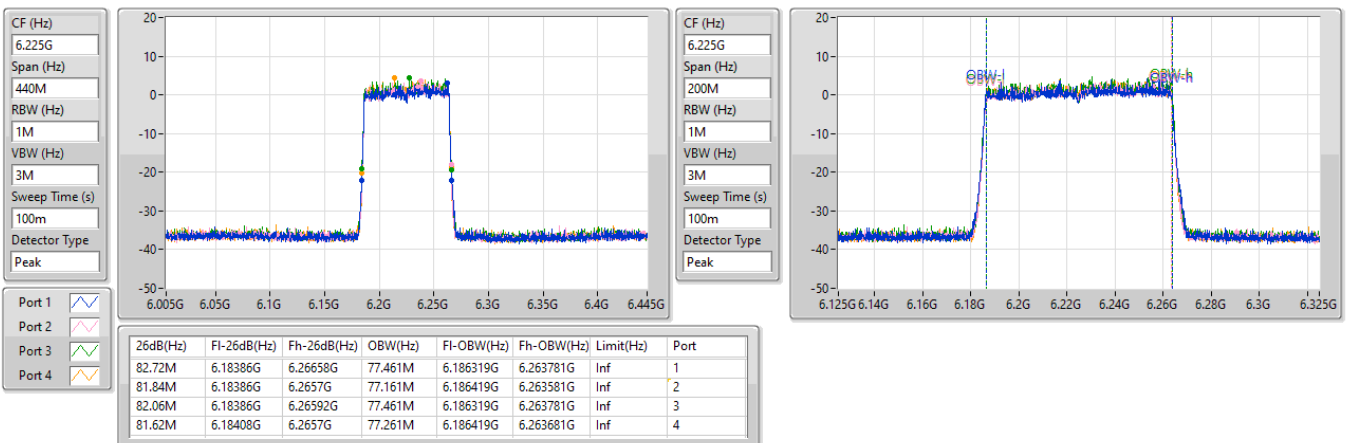


5.925-6.425GHz_802.11be EHT80_Nss1,(MCS0)_4TX

EBW

6225MHz

23/10/2024

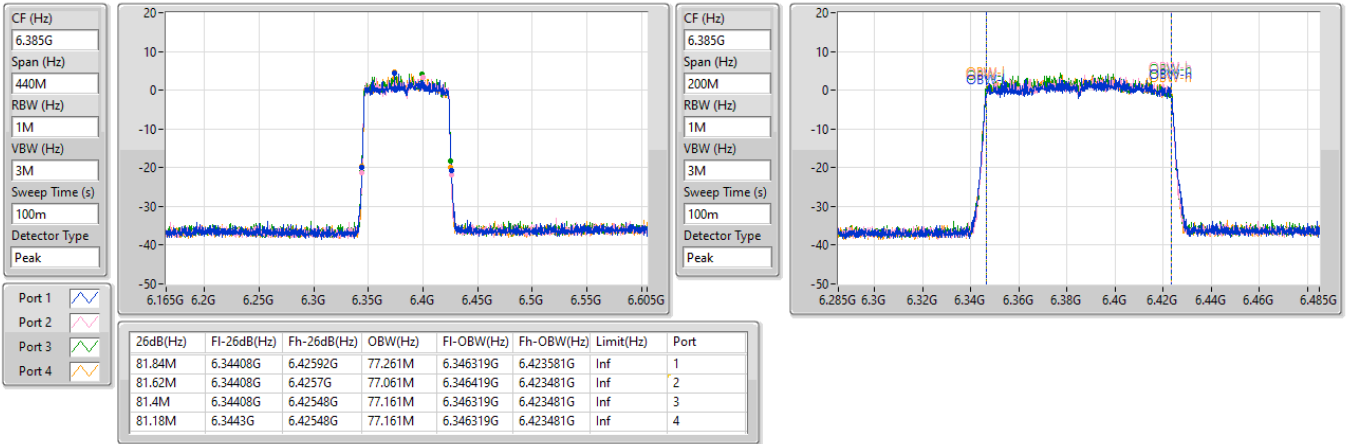


5.925-6.425GHz_802.11be EHT80_Nss1,(MCS0)_4TX

EBW

6385MHz

23/10/2024

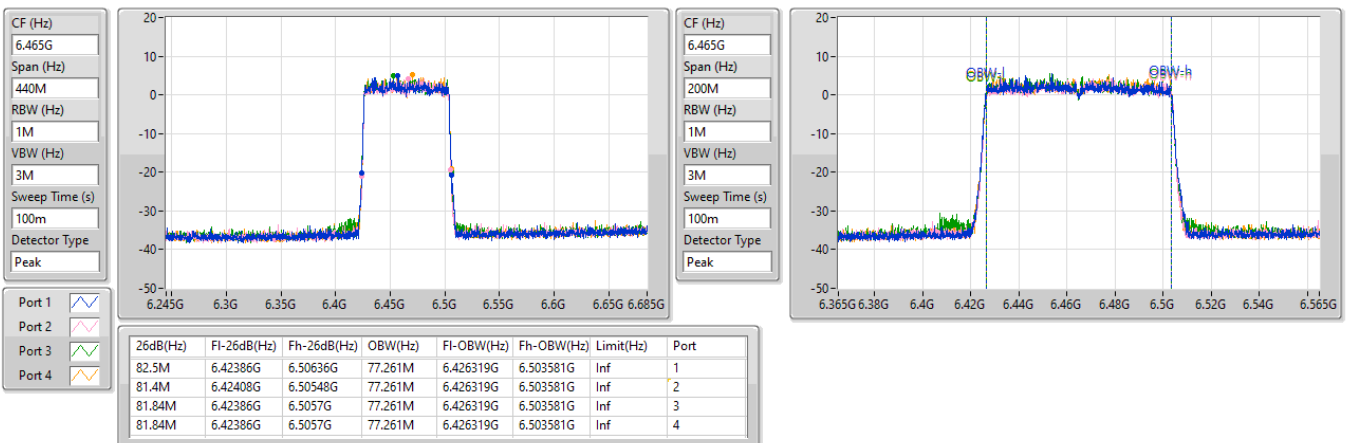


6.425-6.525GHz_802.11be EHT80_Nss1,(MCS0)_4TX

EBW

6465MHz

24/10/2024

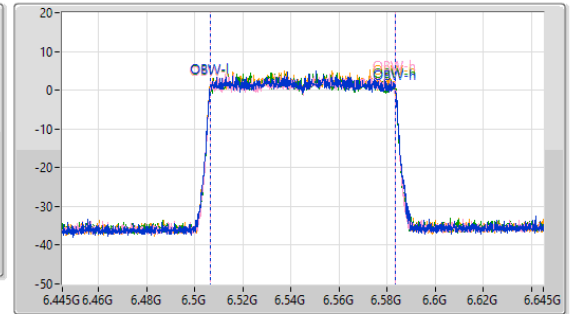
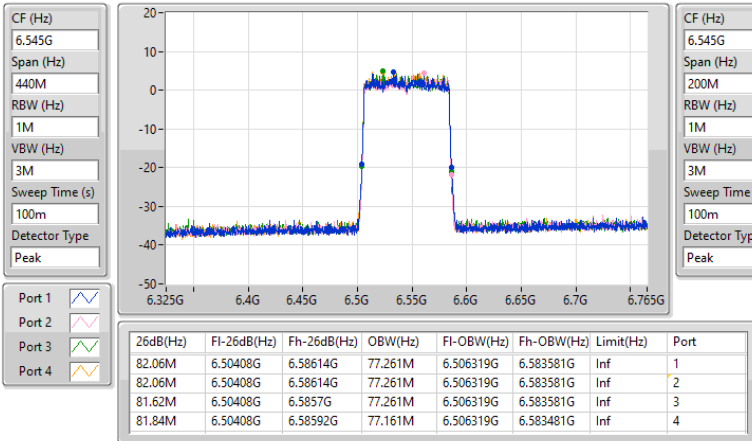


6.425-6.525GHz_802.11be EHT80_Nss1,(MCS0)_4TX

EBW

6545MHz

24/10/2024

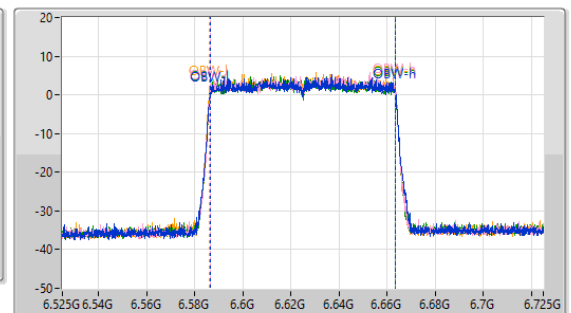
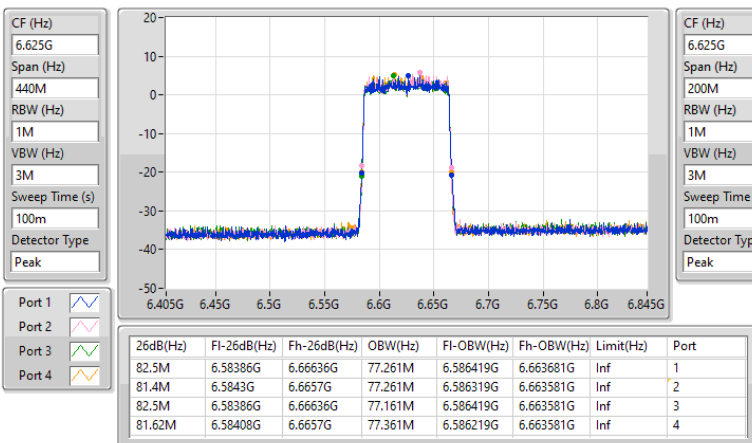


6.525-6.875GHz_802.11be EHT80_Nss1,(MCS0)_4TX

EBW

6625MHz

24/10/2024

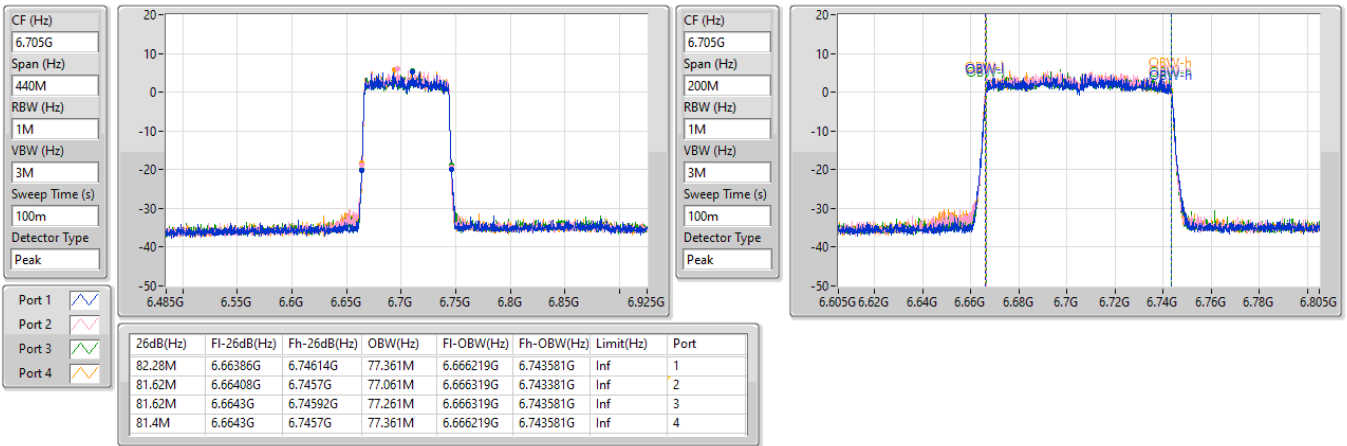


6.525-6.875GHz_802.11be EHT80_Nss1,(MCS0)_4TX

EBW

6705MHz

24/10/2024

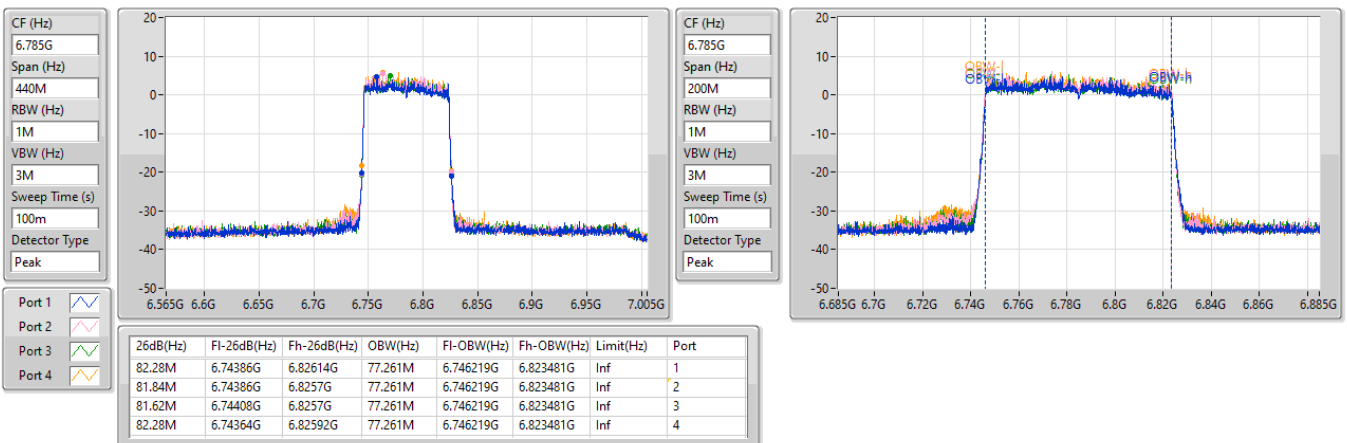


6.525-6.875GHz_802.11be EHT80_Nss1,(MCS0)_4TX

EBW

6785MHz

24/10/2024

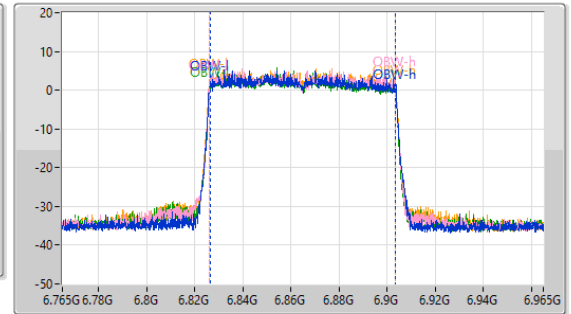
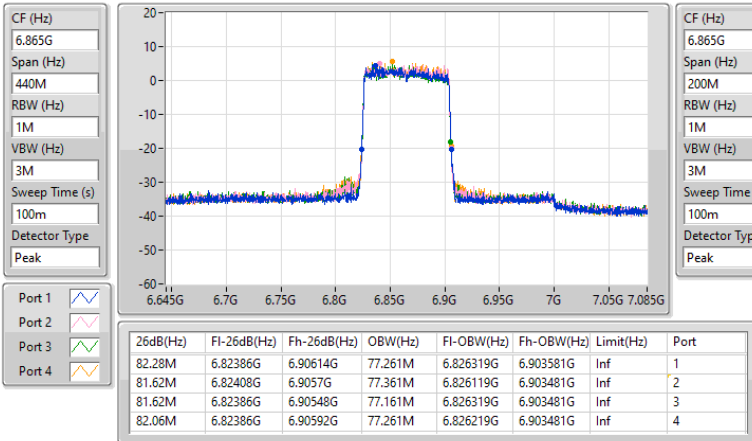


6.525-6.875GHz_802.11be EHT80_Nss1,(MCS0)_4TX

EBW

6865MHz

24/10/2024

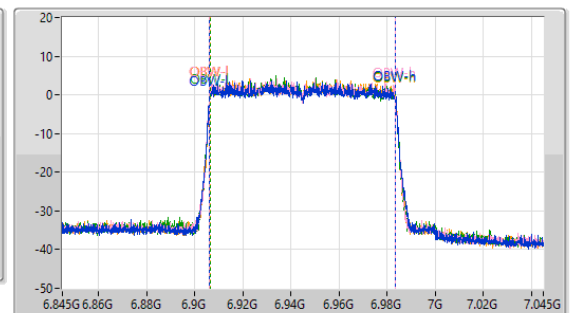
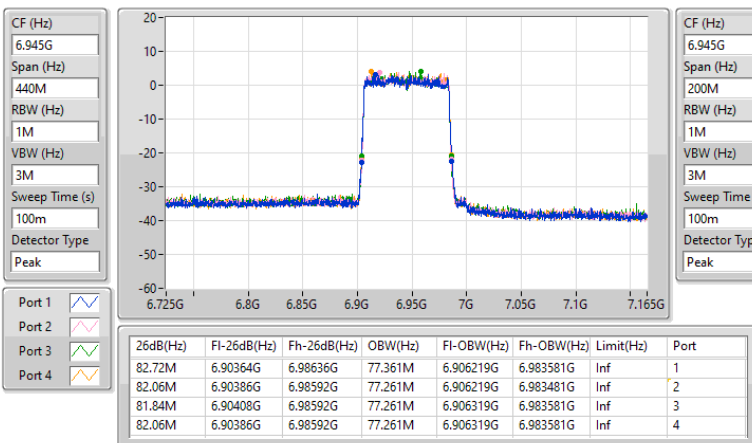


6.875-7.125GHz_802.11be EHT80_Nss1,(MCS0)_4TX

EBW

6945MHz

24/10/2024

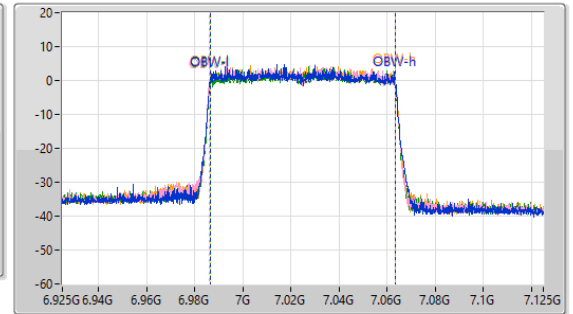
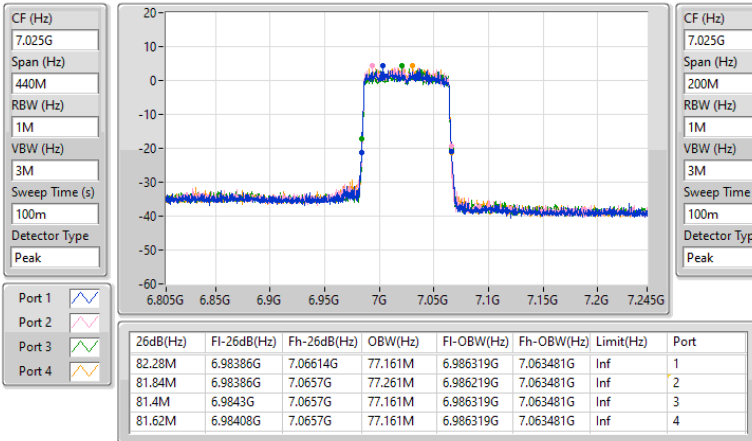


6.875-7.125GHz_802.11be EHT80_Nss1,(MCS0)_4TX

EBW

7025MHz

24/10/2024

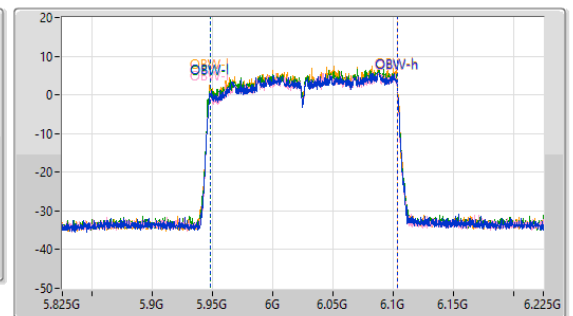
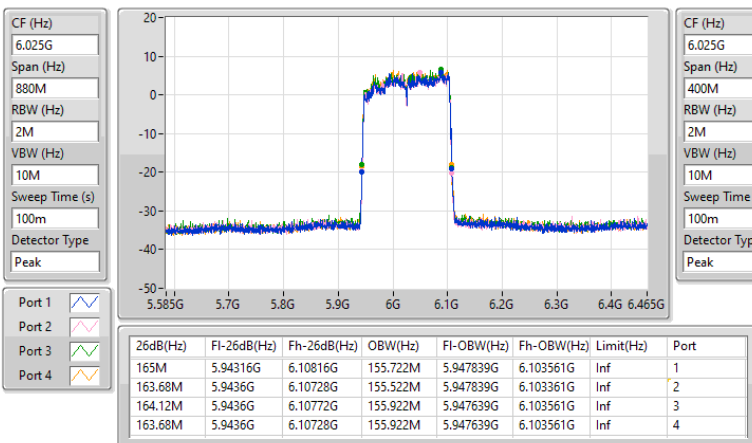


5.925-6.425GHz_802.11be EHT160_Nss1,(MCS0)_4TX

EBW

6025MHz

23/10/2024

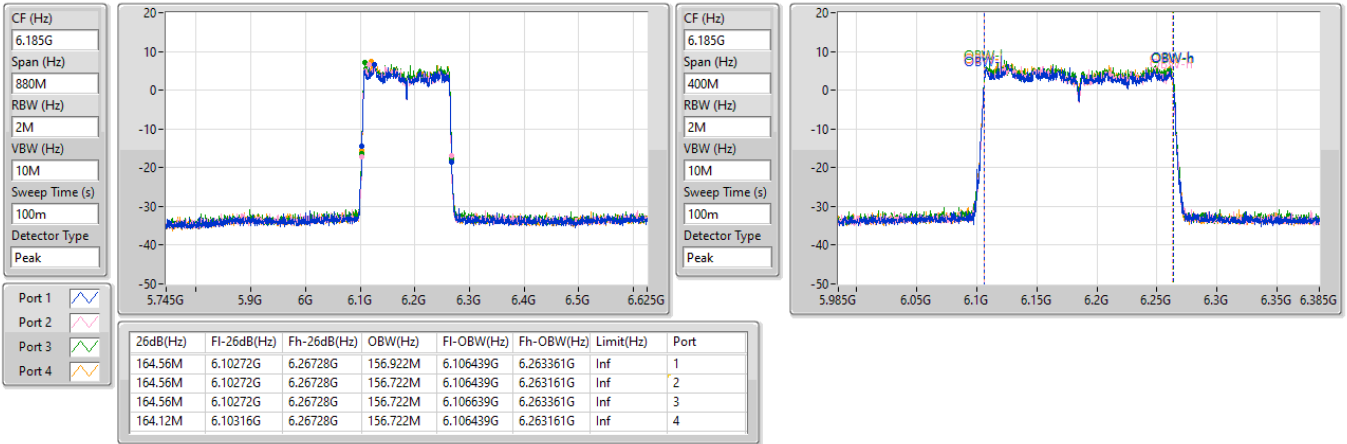


5.925-6.425GHz_802.11be EHT160_Nss1,(MCS0)_4TX

EBW

6185MHz

23/10/2024

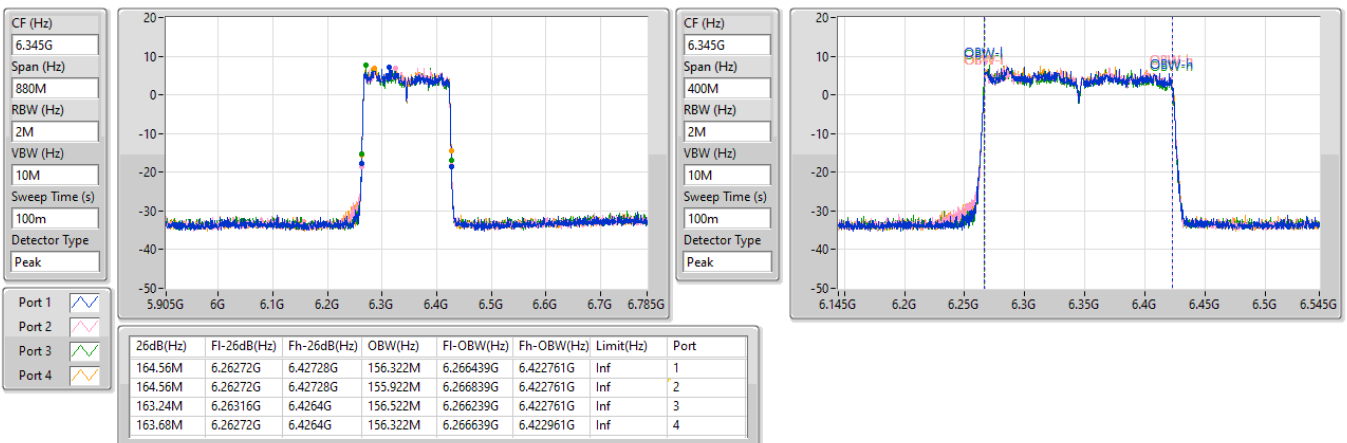


5.925-6.425GHz_802.11be EHT160_Nss1,(MCS0)_4TX

EBW

6345MHz

23/10/2024

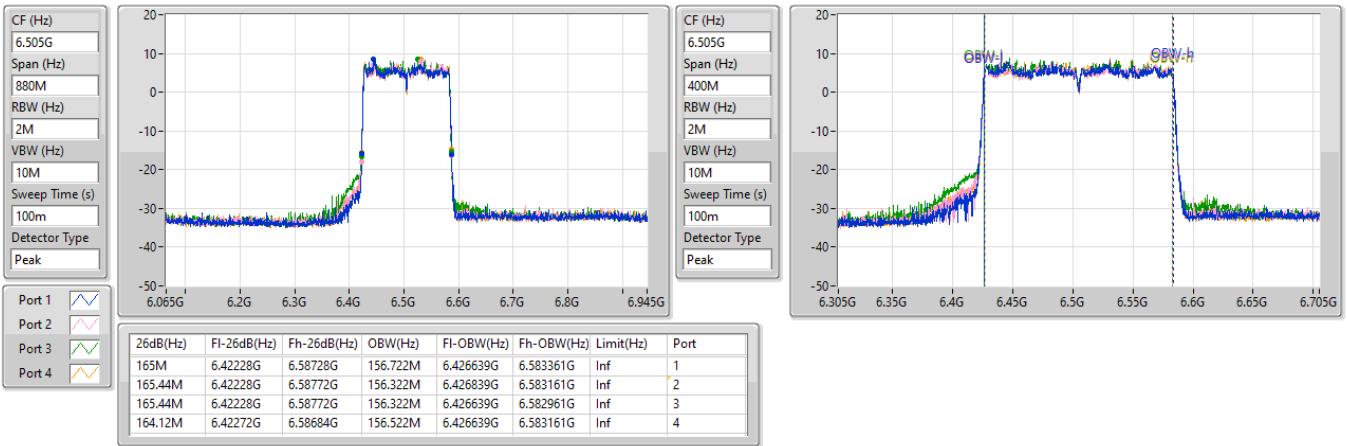


6.425-6.525GHz_802.11be EHT160_Nss1,(MCS0)_4TX

EBW

6505MHz

24/10/2024

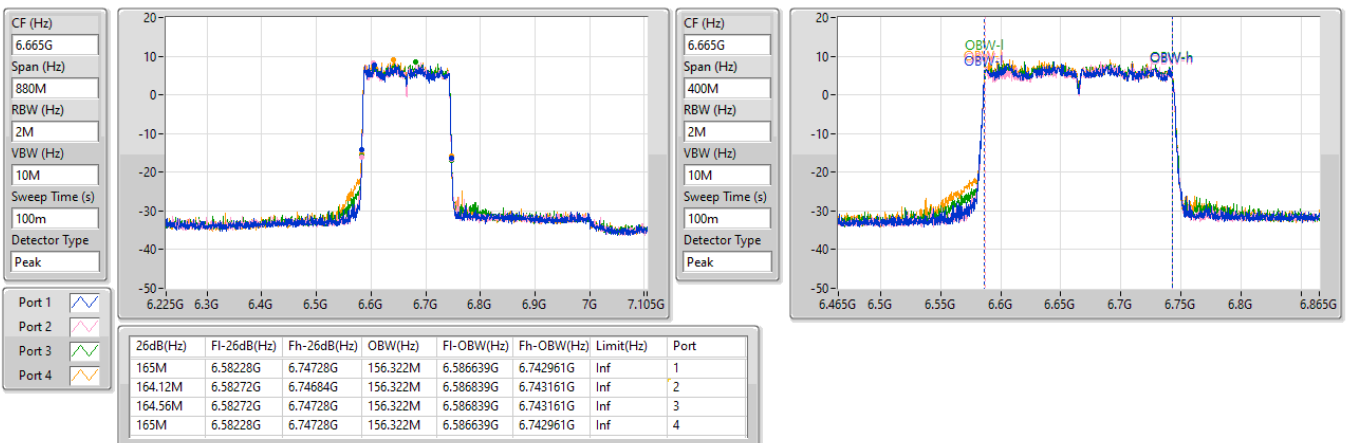


6.525-6.875GHz_802.11be EHT160_Nss1,(MCS0)_4TX

EBW

6665MHz

24/10/2024

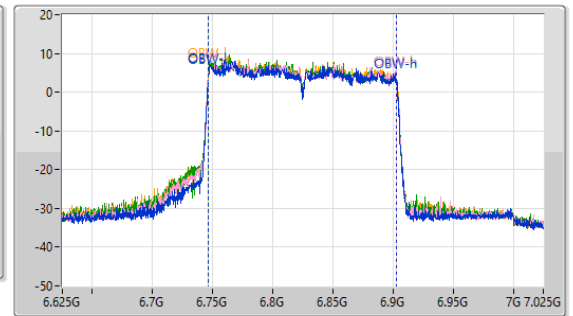
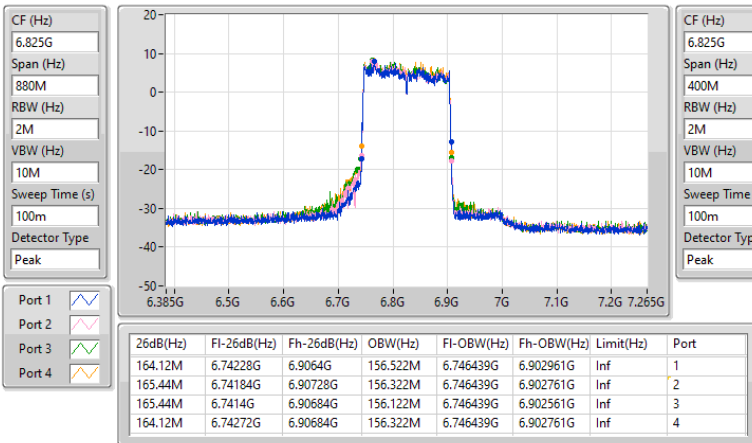


6.525-6.875GHz_802.11be EHT160_Nss1,(MCS0)_4TX

EBW

6825MHz

24/10/2024

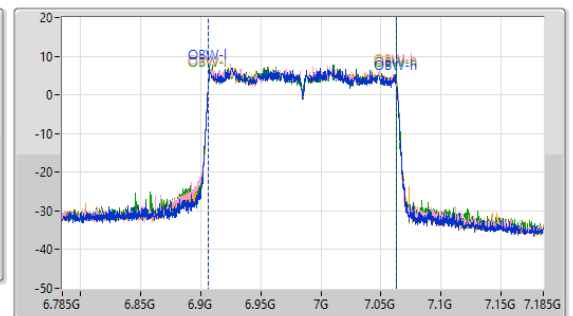
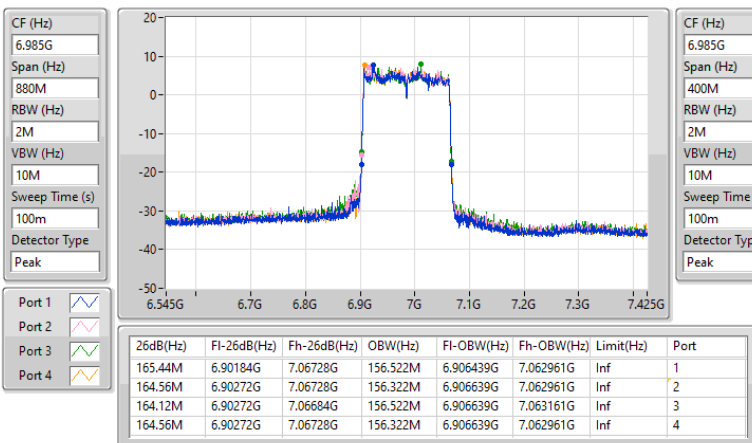


6.875-7.125GHz_802.11be EHT160_Nss1,(MCS0)_4TX

EBW

6985MHz

24/10/2024

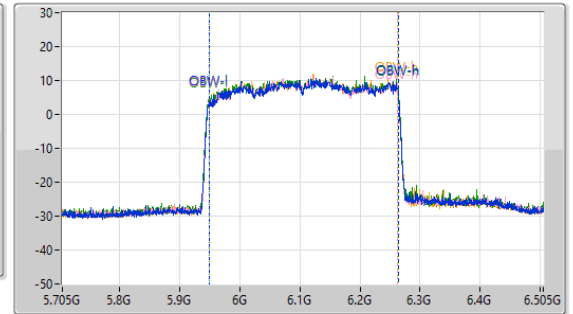
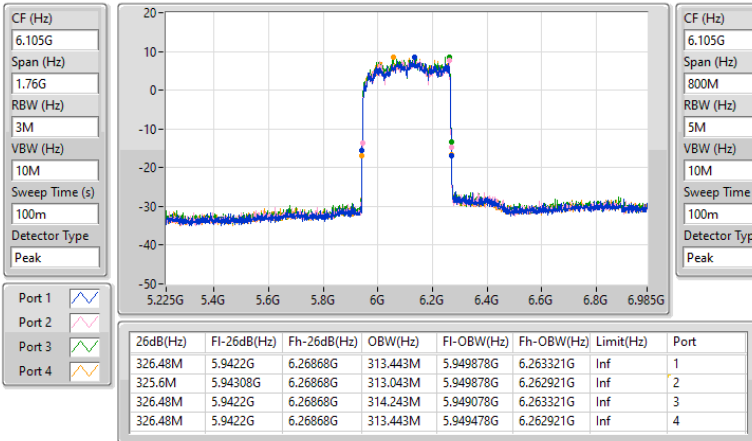


5.925-6.425GHz_802.11be EHT320_Nss1,(MCS0)_4TX

EBW

6105MHz

23/10/2024

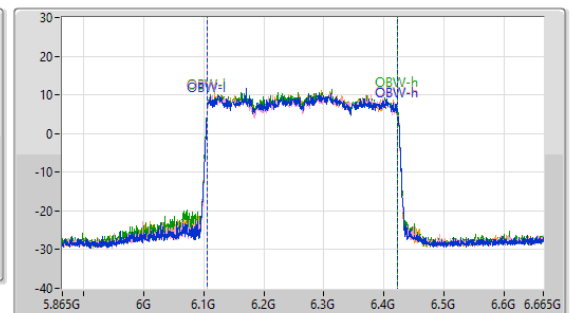
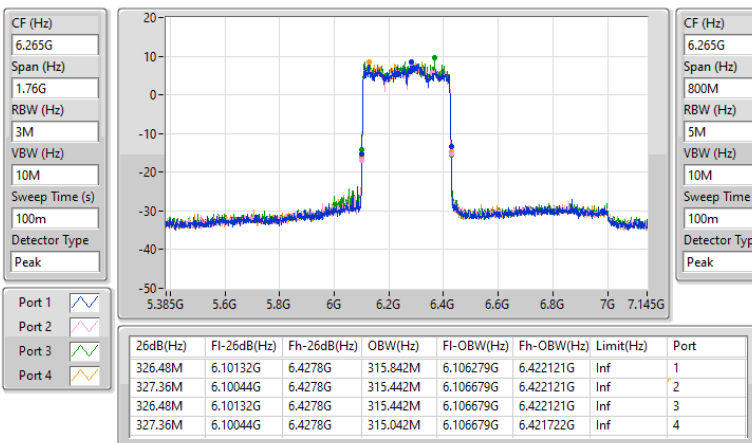


5.925-6.425GHz_802.11be EHT320_Nss1,(MCS0)_4TX

EBW

6265MHz

23/10/2024

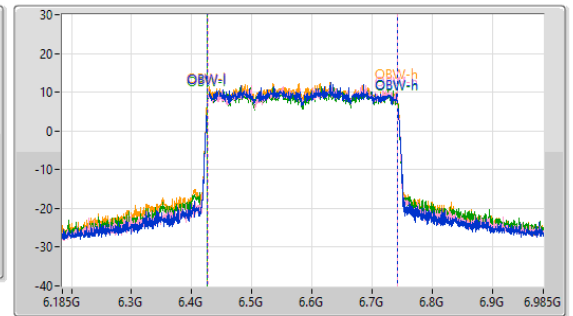
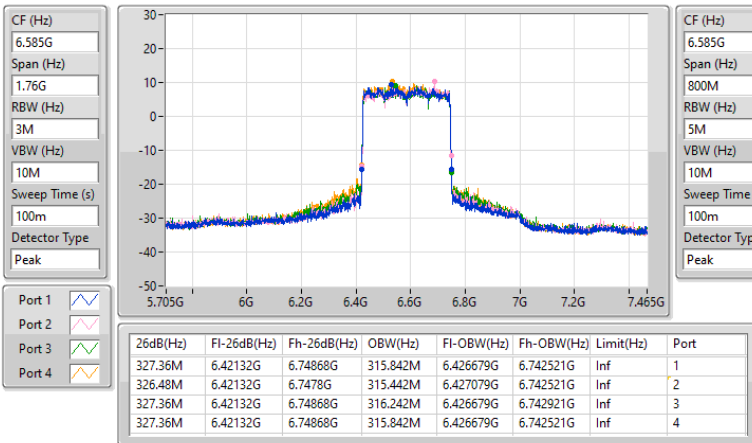


6.425-6.525GHz_802.11be EHT320_Nss1,(MCS0)_4TX

EBW

6585MHz

23/10/2024

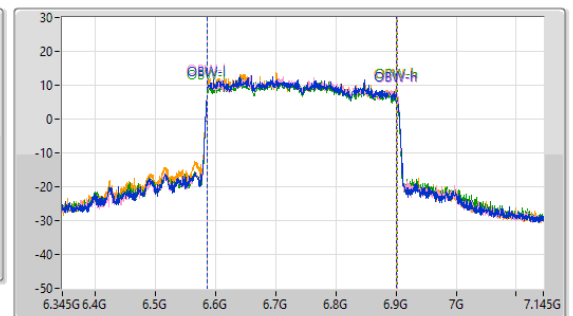
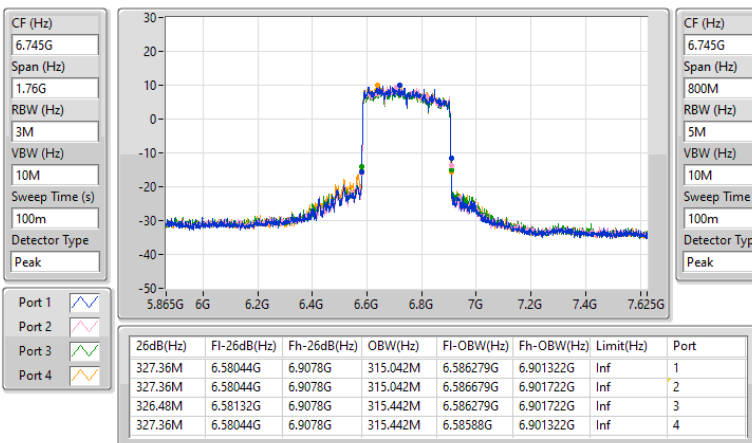


6.525-6.875GHz_802.11be EHT320_Nss1,(MCS0)_4TX

EBW

6745MHz

23/10/2024

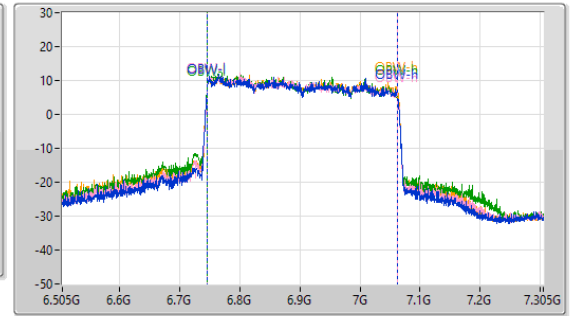
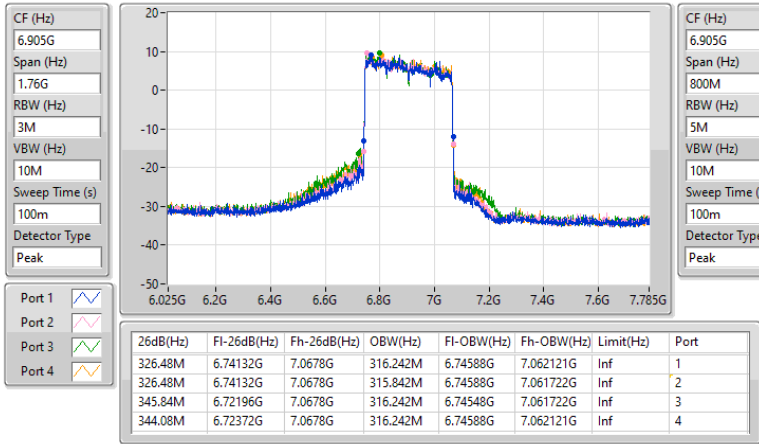


6.525-6.875GHz_802.11be EHT320_Nss1,(MCS0)_4TX

EBW

6905MHz

23/10/2024



Test Mode: Mode 2
Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
6.525-6.875GHz	-	-	-	-	-
802.11be EHT20_Nss1,(MCS0)_4TX	21.34M	19.132M	19M1D1D	20.79M	18.933M
802.11be EHT40_Nss1,(MCS0)_4TX	41.03M	37.989M	38M0D1D	39.05M	37.497M
802.11be EHT80_Nss1,(MCS0)_4TX	83.16M	77.676M	77M7D1D	80.08M	76.686M
802.11be EHT160_Nss1,(MCS0)_4TX	163.68M	157.012M	157MD1D	161.92M	155.441M
802.11be EHT320_Nss1,(MCS0)_4TX	396M	315.9M	316MD1D	325.6M	314.646M
6.875-7.125GHz	-	-	-	-	-
802.11be EHT20_Nss1,(MCS0)_4TX	21.395M	19.181M	19M2D1D	20.35M	18.922M
802.11be EHT40_Nss1,(MCS0)_4TX	40.7M	37.85M	37M9D1D	38.94M	37.605M
802.11be EHT80_Nss1,(MCS0)_4TX	80.52M	77.442M	77M4D1D	80.08M	76.845M
802.11be EHT160_Nss1,(MCS0)_4TX	163.68M	156.097M	156MD1D	161.92M	155.641M

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

Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)	Port 3-N dB (Hz)	Port 3-OBW (Hz)	Port 4-N dB (Hz)	Port 4-OBW (Hz)
802.11be EHT20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
6535MHz	Pass	Inf	21.01M	19.033M	20.955M	19.045M	21.01M	18.991M	21.01M	19.029M
6695MHz	Pass	Inf	21.12M	19.073M	21.23M	18.933M	21.34M	18.994M	21.12M	18.992M
6875MHz	Pass	Inf	21.175M	18.943M	21.34M	18.935M	21.01M	19.132M	20.79M	18.968M
6895MHz	Pass	Inf	21.285M	18.975M	21.34M	18.922M	21.175M	18.998M	21.01M	19.012M
6995MHz	Pass	Inf	21.01M	18.956M	21.01M	19.066M	21.395M	19.181M	20.68M	18.966M
7095MHz	Pass	Inf	20.35M	19.007M	21.065M	18.971M	20.845M	18.979M	21.285M	19.051M
802.11be EHT40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
6565MHz	Pass	Inf	40.37M	37.615M	41.03M	37.675M	40.26M	37.669M	40.26M	37.728M
6685MHz	Pass	Inf	40.15M	37.629M	40.04M	37.497M	39.16M	37.8M	39.82M	37.989M
6885MHz	Pass	Inf	39.49M	37.697M	39.82M	37.681M	39.49M	37.591M	39.05M	37.663M
6925MHz	Pass	Inf	40.59M	37.649M	40.37M	37.833M	40.7M	37.811M	40.15M	37.733M
7005MHz	Pass	Inf	39.82M	37.813M	39.82M	37.61M	38.94M	37.729M	40.26M	37.727M
7085MHz	Pass	Inf	39.71M	37.699M	39.49M	37.85M	39.27M	37.677M	39.38M	37.605M
802.11be EHT80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
6625MHz	Pass	Inf	80.96M	77.23M	80.52M	77.417M	80.74M	77.676M	80.52M	76.932M
6705MHz	Pass	Inf	80.3M	77.211M	80.3M	76.787M	80.08M	76.686M	80.96M	77.131M
6785MHz	Pass	Inf	80.3M	77.212M	80.08M	77.208M	80.3M	77.083M	80.3M	77.241M
6865MHz	Pass	Inf	83.16M	76.886M	80.74M	77.134M	80.74M	76.974M	80.3M	77.484M
6945MHz	Pass	Inf	80.3M	77.148M	80.3M	77.062M	80.08M	76.988M	80.3M	77.292M
7025MHz	Pass	Inf	80.52M	76.845M	80.08M	76.914M	80.52M	77.442M	80.52M	76.943M
802.11be EHT160_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
6665MHz	Pass	Inf	161.92M	156.058M	162.8M	156.477M	163.68M	155.441M	163.68M	156.533M
6825MHz	Pass	Inf	161.92M	156.784M	161.92M	156.574M	161.92M	157.012M	162.8M	156.74M
6985MHz	Pass	Inf	161.92M	155.853M	161.92M	156.097M	161.92M	155.641M	163.68M	156.038M
802.11be EHT320_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
6745MHz	Pass	Inf	326.48M	315.643M	326.48M	315.695M	325.6M	315.873M	325.6M	314.646M
6905MHz	Pass	Inf	326.48M	315.9M	327.36M	315.807M	326.48M	315.718M	396M	315.312M

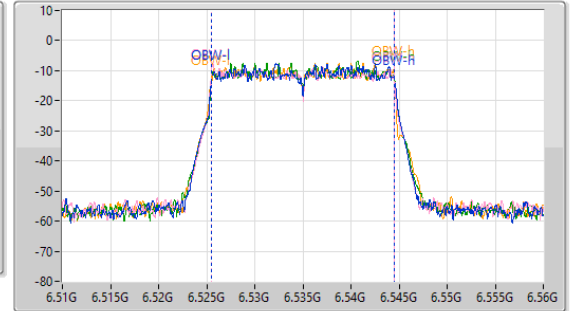
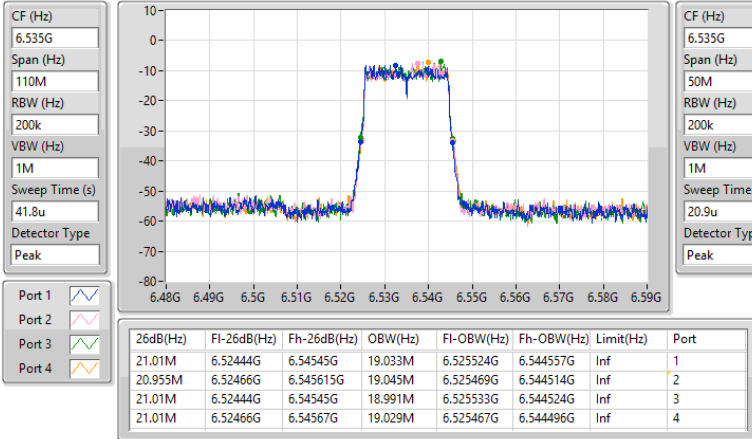
Port X-N dB = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band
Port X-OBW = Port X 99% occupied bandwidth

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

EBW

6535MHz

27/11/2024

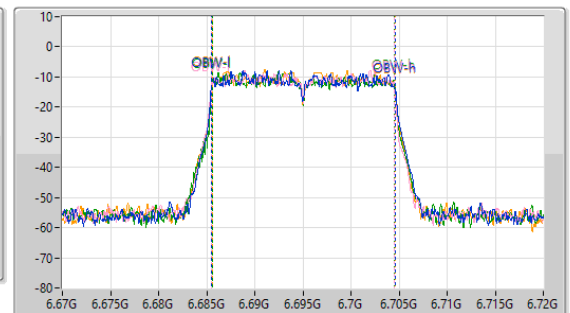
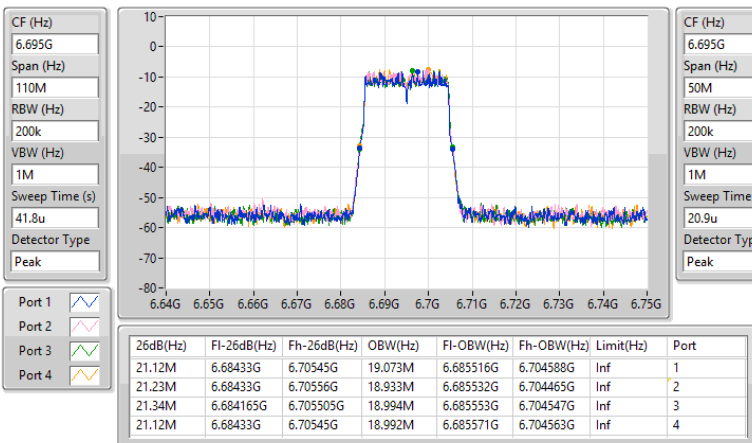


6.525-6.875GHz_802.11be EHT20_Nss1,(MCS0)_4TX

EBW

6695MHz

27/11/2024

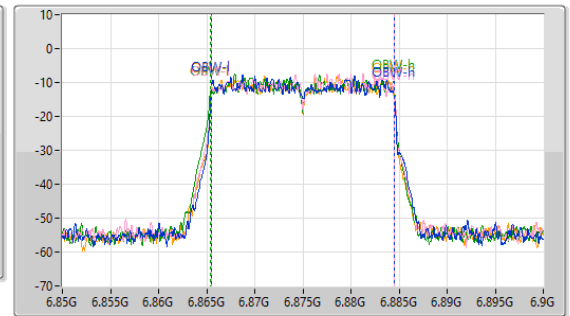
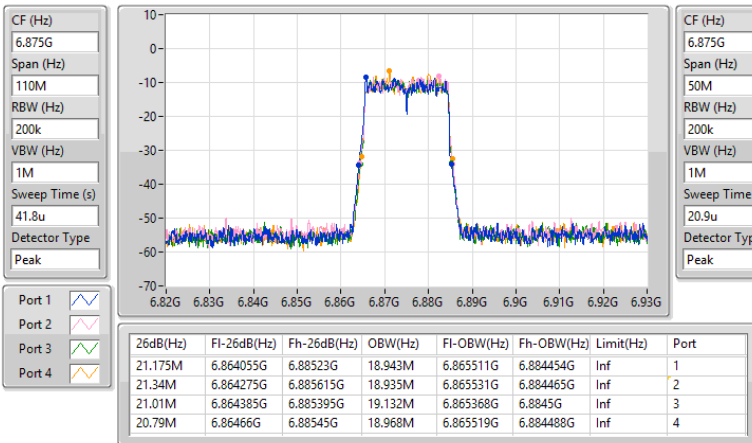


6.525-6.875GHz_802.11be EHT20_Nss1,(MCS0)_4TX

EBW

6875MHz

27/11/2024

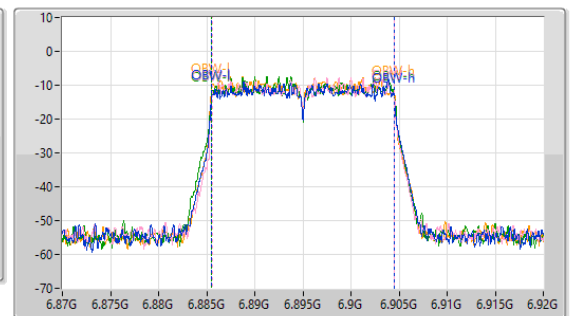
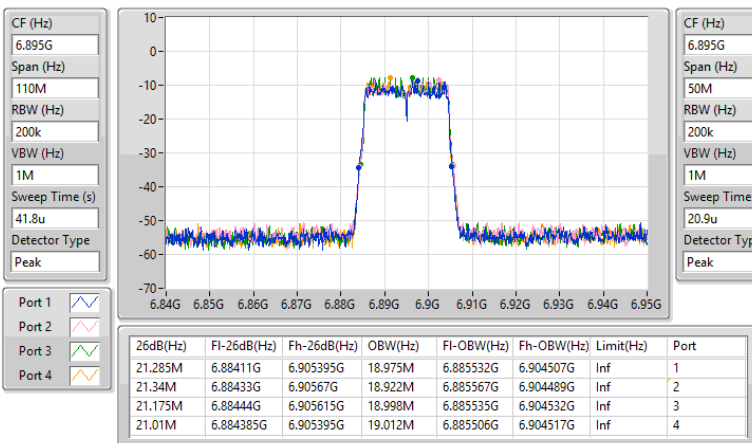


6.875-7.125GHz_802.11be EHT20_Nss1,(MCS0)_4TX

EBW

6895MHz

27/11/2024

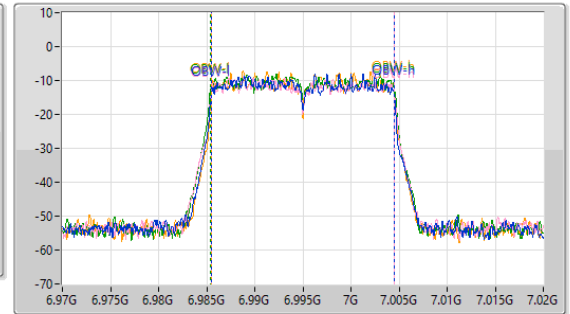
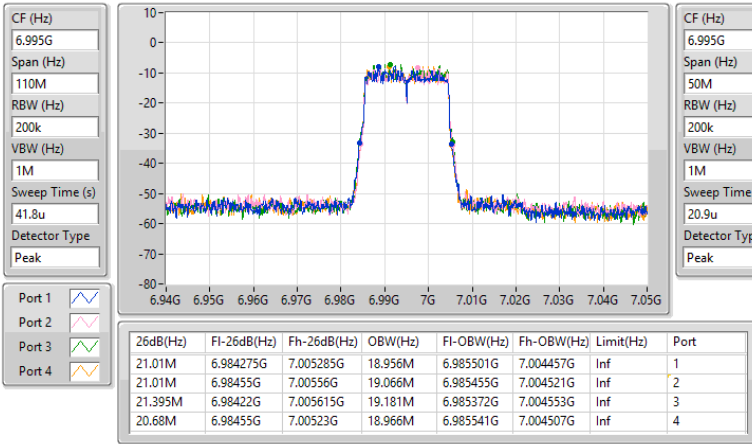


6.875-7.125GHz_802.11be EHT20_Nss1,(MCS0)_4TX

EBW

6995MHz

27/11/2024

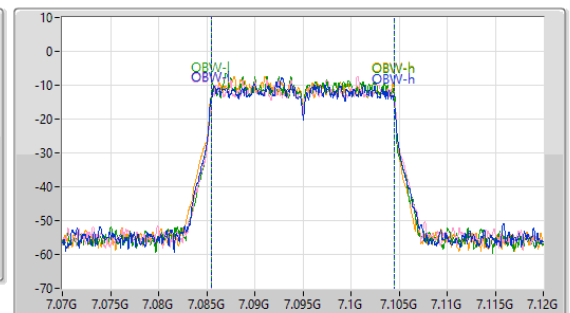
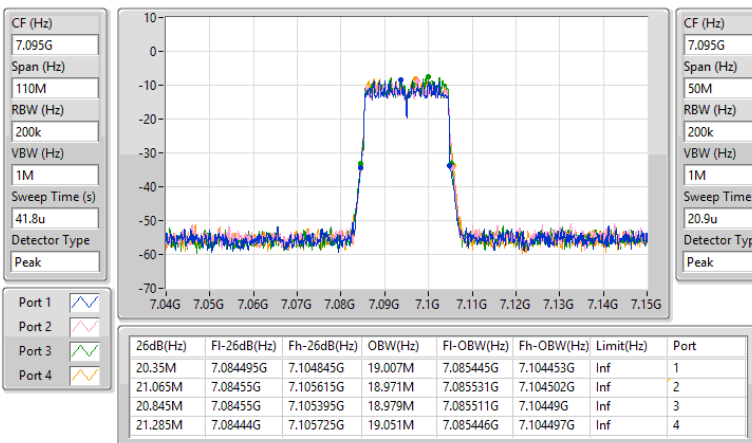


6.875-7.125GHz_802.11be EHT20_Nss1,(MCS0)_4TX

EBW

7095MHz

27/11/2024

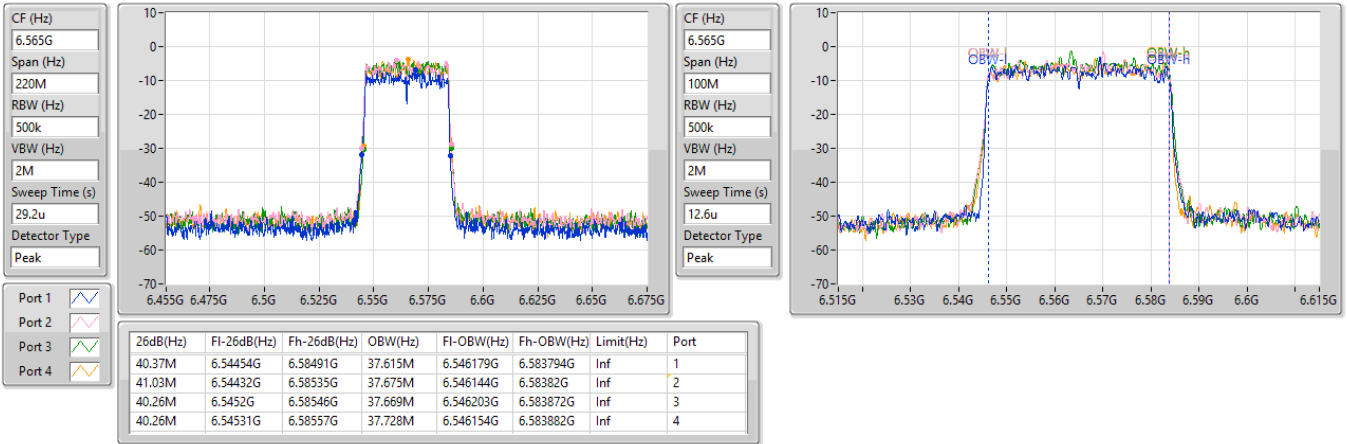


6.525-6.875GHz_802.11be EHT40_Nss1,(MCS0)_4TX

EBW

6565MHz

27/11/2024

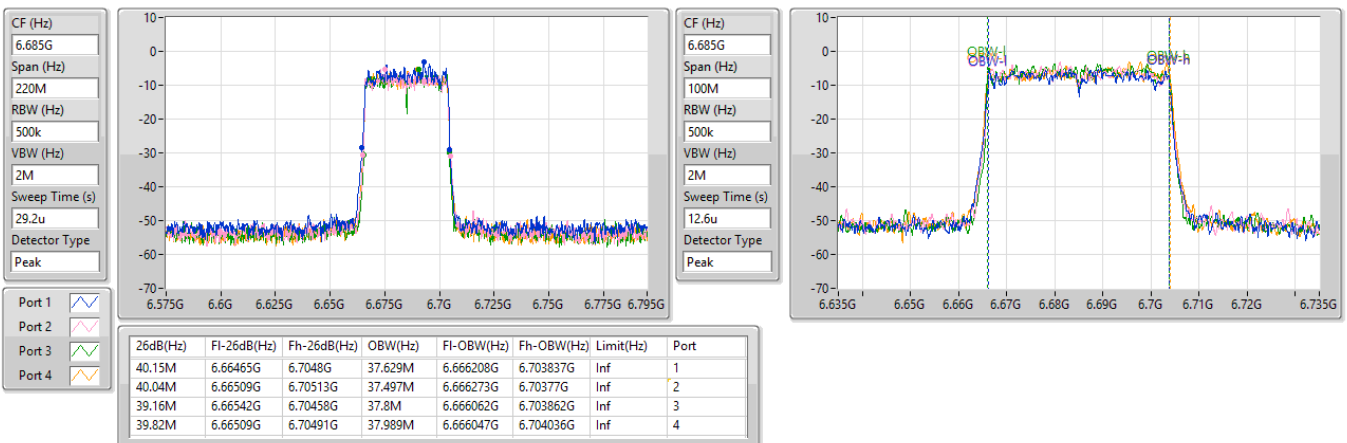


6.525-6.875GHz_802.11be EHT40_Nss1,(MCS0)_4TX

EBW

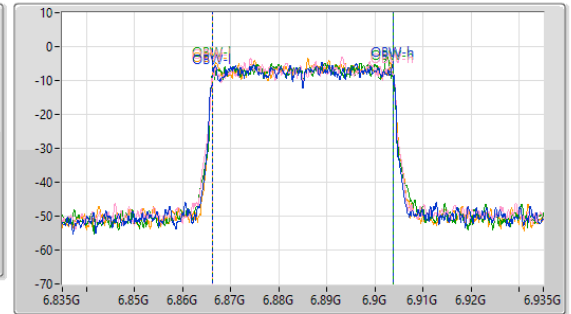
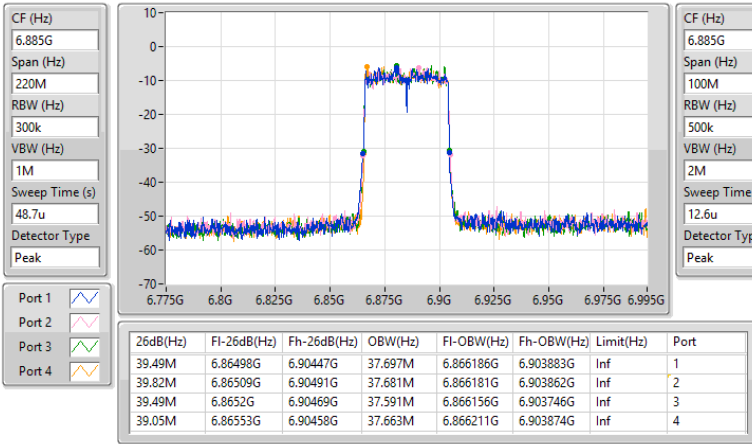
6685MHz

27/11/2024

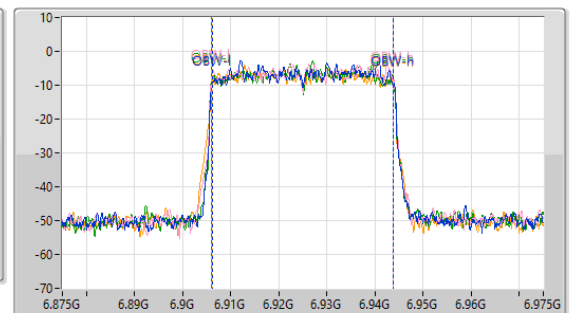
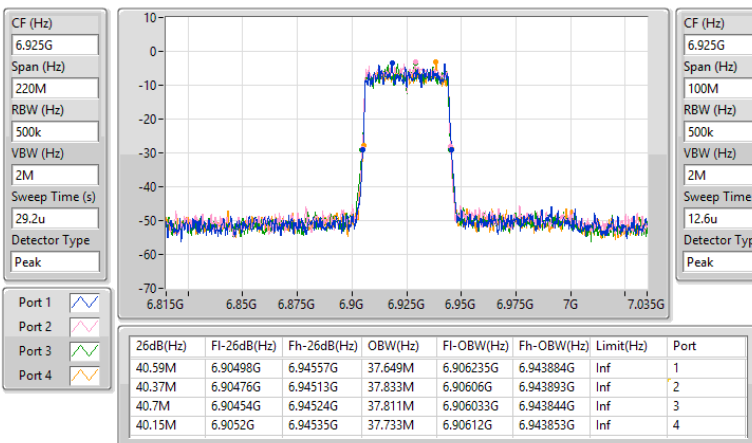


6.525-6.875GHz_802.11be EHT40_Nss1,(MCS0)_4TX
EBW
6885MHz

27/11/2024


6.875-7.125GHz_802.11be EHT40_Nss1,(MCS0)_4TX
EBW
6925MHz

27/11/2024

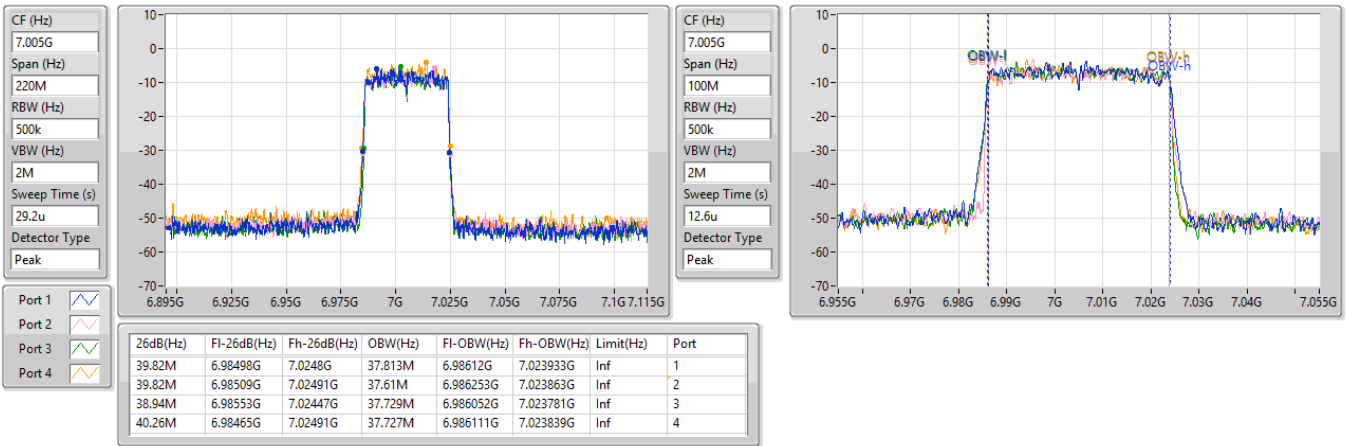


6.875-7.125GHz_802.11be EHT40_Nss1,(MCS0)_4TX

EBW

7005MHz

27/11/2024

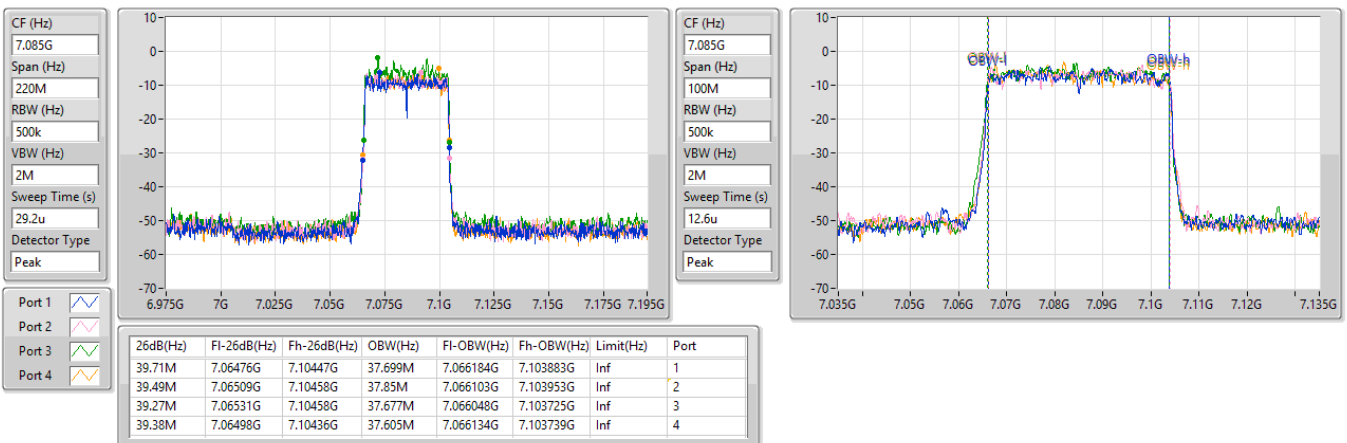


6.875-7.125GHz_802.11be EHT40_Nss1,(MCS0)_4TX

EBW

7085MHz

27/11/2024

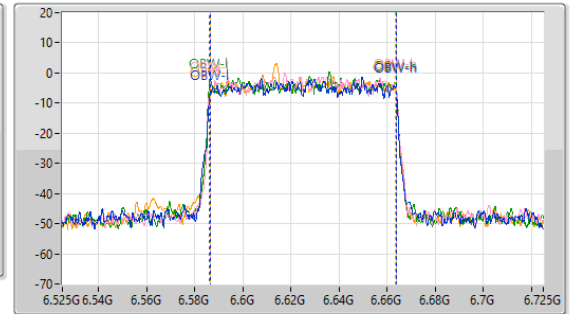
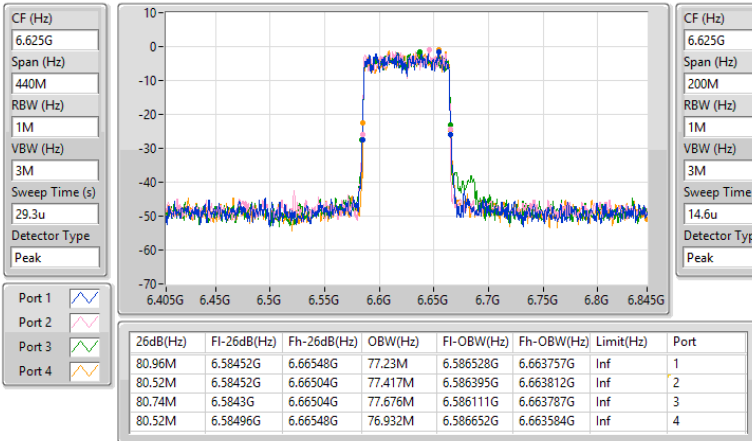


6.525-6.875GHz_802.11be EHT80_Nss1,(MCS0)_4TX

EBW

6625MHz

27/11/2024

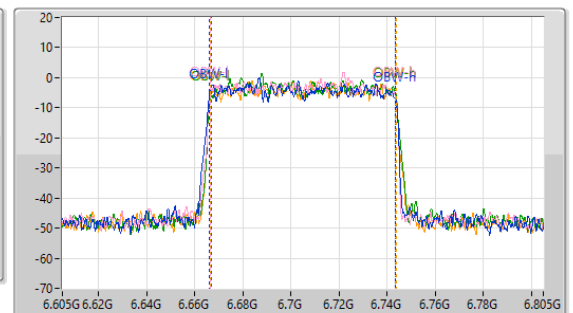
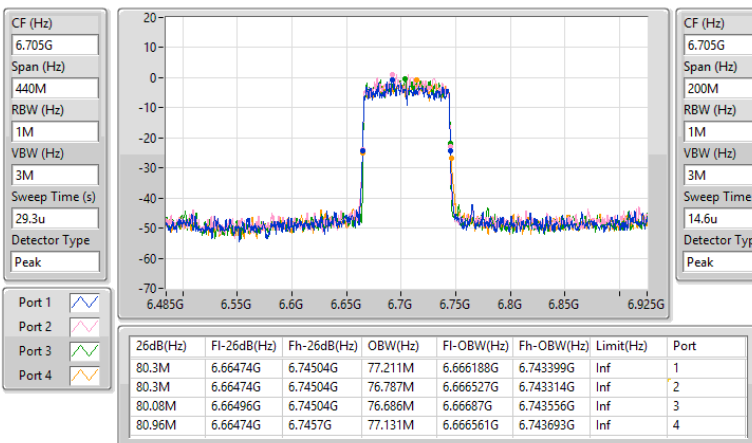


6.525-6.875GHz_802.11be EHT80_Nss1,(MCS0)_4TX

EBW

6705MHz

27/11/2024

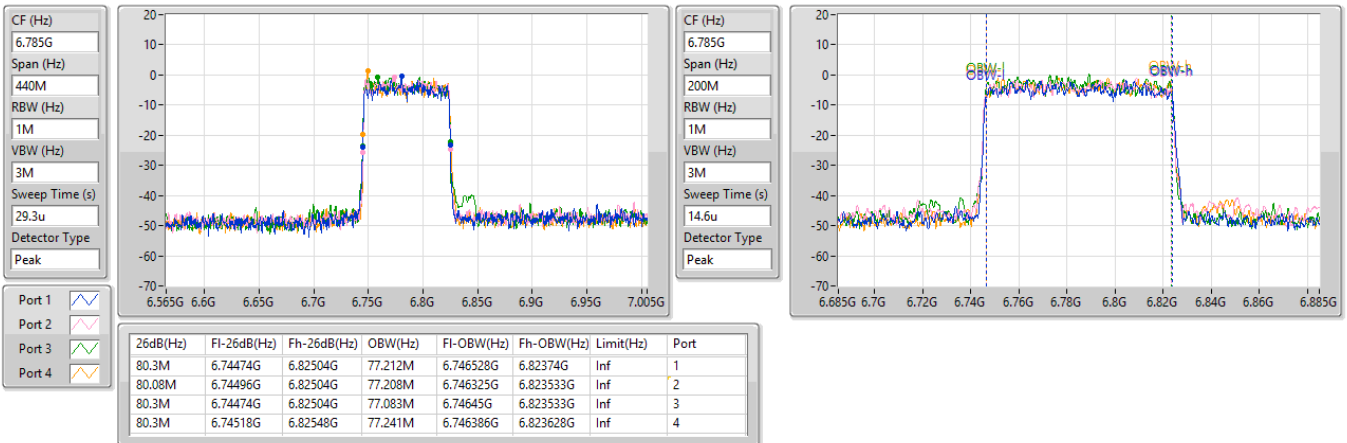


6.525-6.875GHz_802.11be EHT80_Nss1,(MCS0)_4TX

EBW

6785MHz

27/11/2024

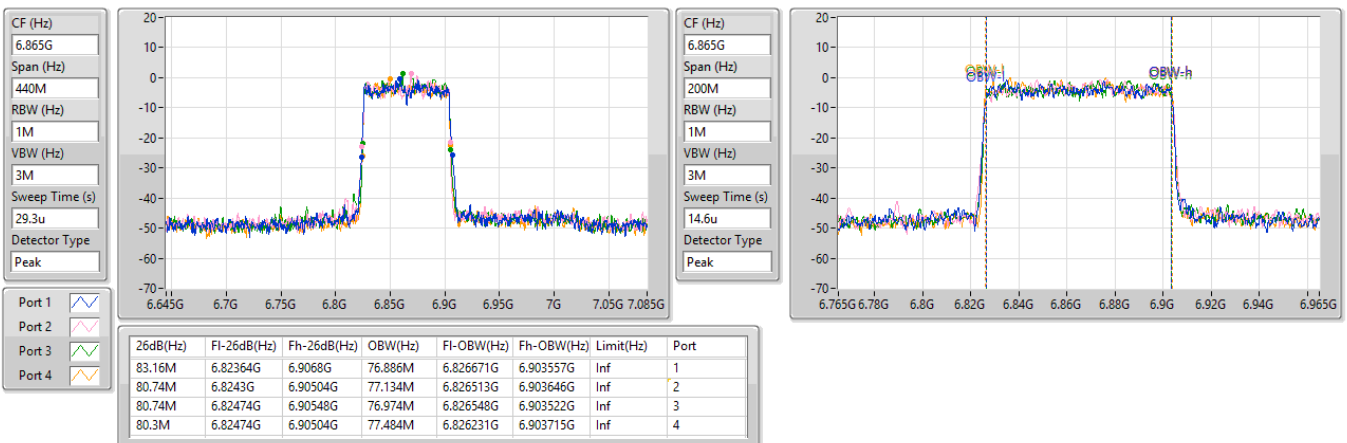


6.525-6.875GHz_802.11be EHT80_Nss1,(MCS0)_4TX

EBW

6865MHz

27/11/2024

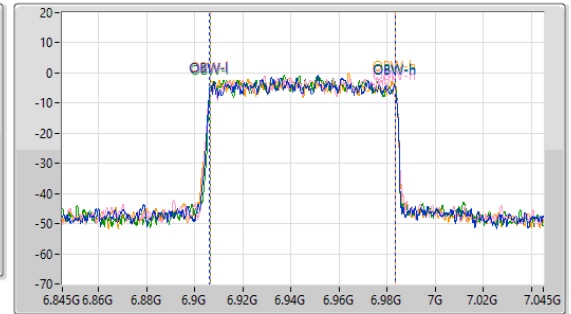
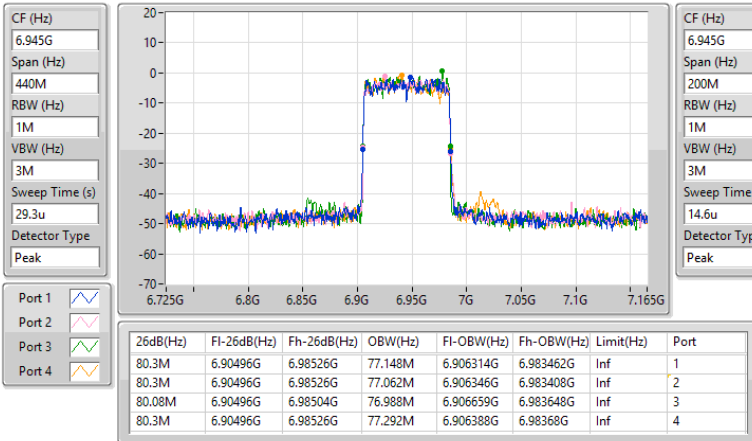


6.875-7.125GHz_802.11be EHT80_Nss1,(MCS0)_4TX

EBW

6945MHz

27/11/2024

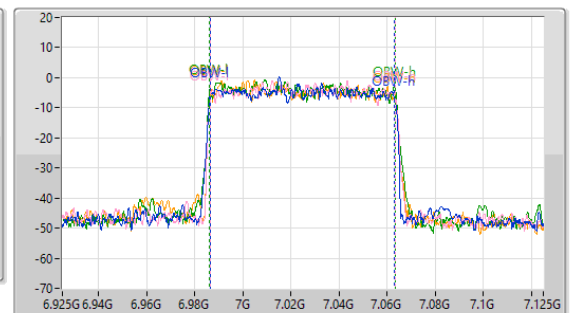
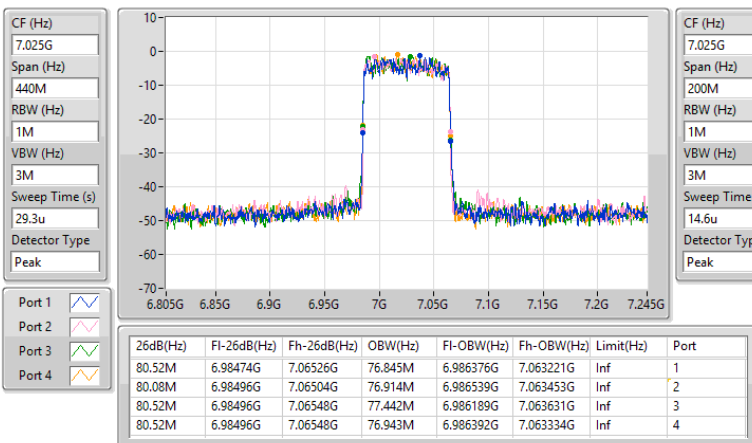


6.875-7.125GHz_802.11be EHT80_Nss1,(MCS0)_4TX

EBW

7025MHz

27/11/2024

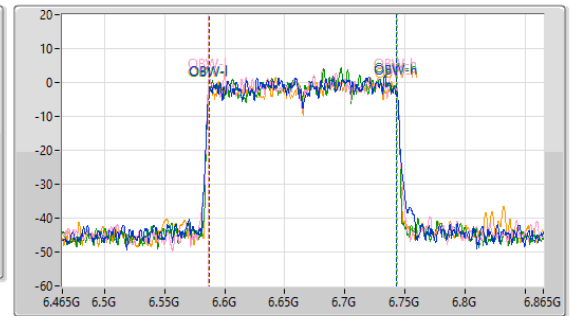
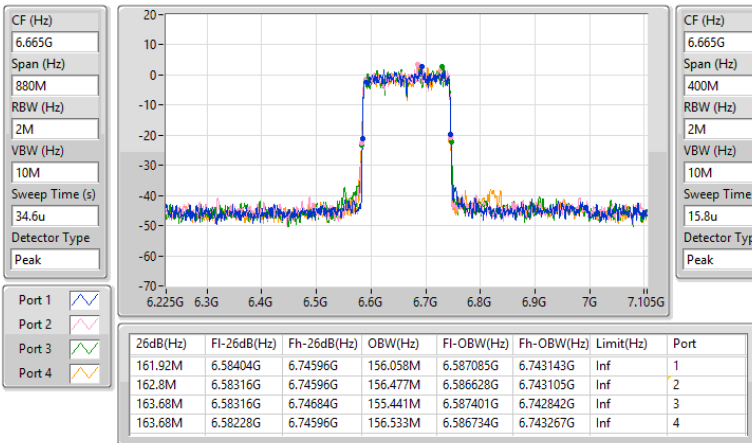


6.525-6.875GHz_802.11be EHT160_Nss1,(MCS0)_4TX

EBW

6665MHz

27/11/2024

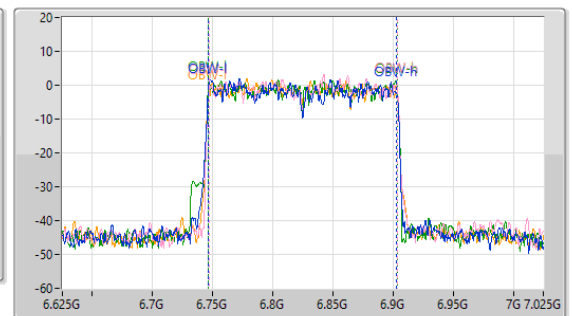
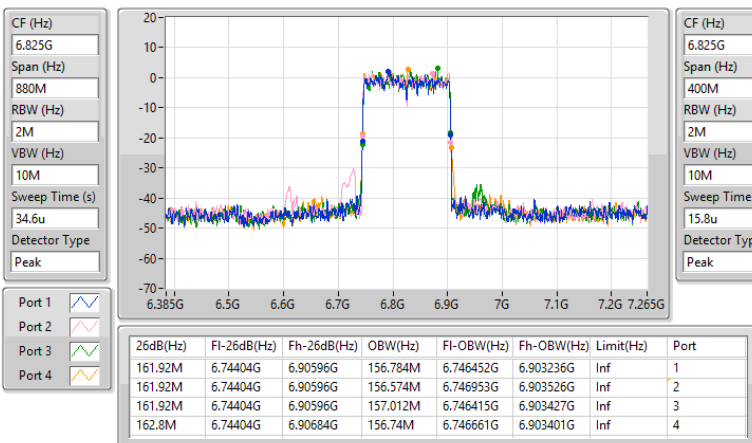


6.525-6.875GHz_802.11be EHT160_Nss1,(MCS0)_4TX

EBW

6825MHz

27/11/2024

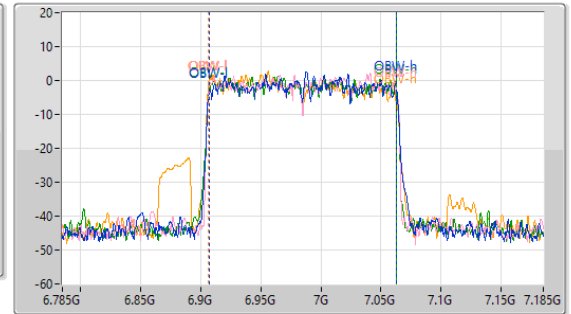
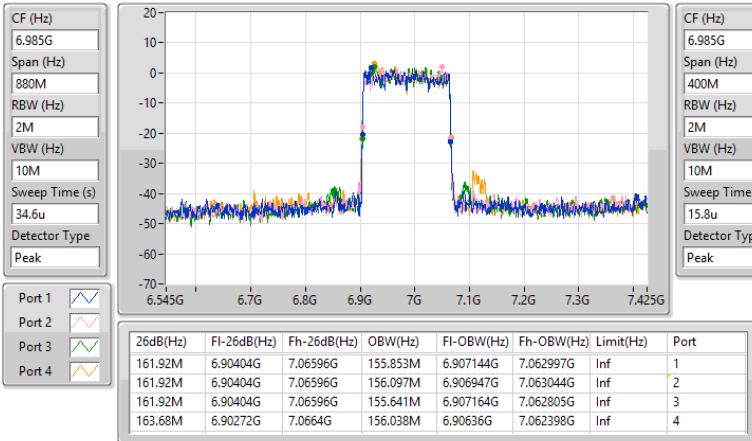


6.875-7.125GHz_802.11be EHT160_Nss1,(MCS0)_4TX

EBW

6985MHz

27/11/2024

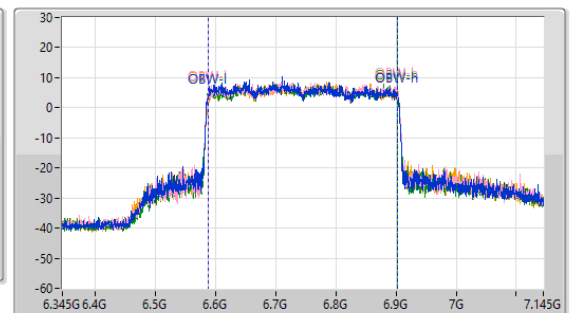
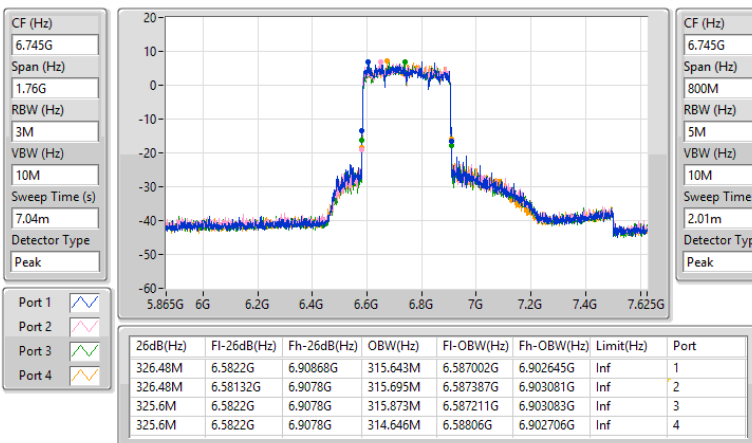


6.525-6.875GHz_802.11be EHT320_Nss1,(MCS0)_4TX

EBW

6745MHz

27/11/2024

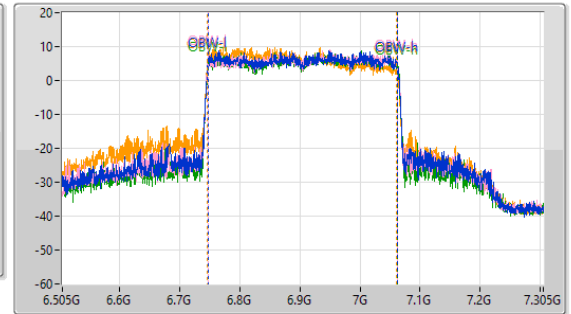
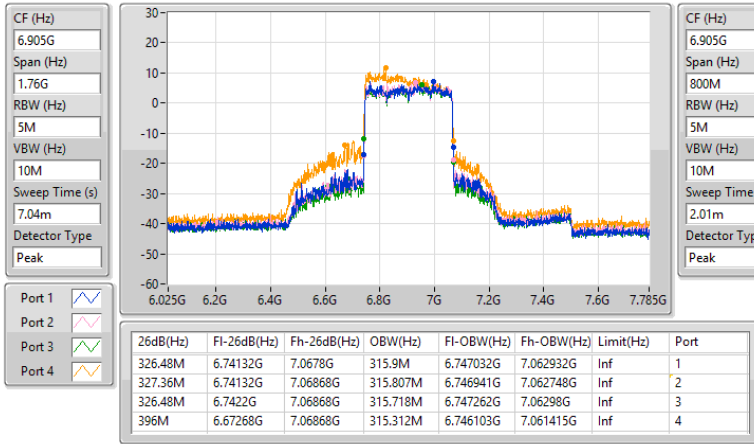


6.525-6.875GHz_802.11be EHT320_Nss1,(MCS0)_4TX

EBW

6905MHz

27/11/2024



**Test Mode: Mode 3
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)_2TX	21.285M	19.037M	19M0D1D	20.79M	18.965M
802.11be EHT40_Nss1,(MCS0)_2TX	40.81M	37.733M	37M7D1D	40.04M	37.653M
802.11be EHT80_Nss1,(MCS0)_2TX	81.4M	77.293M	77M3D1D	80.52M	77.013M
802.11be EHT160_Nss1,(MCS0)_2TX	165.44M	156.34M	156MD1D	162.36M	156.076M
802.11be EHT320_Nss1,(MCS0)_2TX	579.92M	317.124M	317MD1D	410.08M	316.196M
6.425-6.525GHz	-	-	-	-	-
802.11be EHT20_Nss1,(MCS0)_2TX	21.45M	19.097M	19M1D1D	20.735M	18.955M
802.11be EHT40_Nss1,(MCS0)_2TX	40.81M	37.753M	37M8D1D	40.04M	37.646M
802.11be EHT80_Nss1,(MCS0)_2TX	81.84M	77.193M	77M2D1D	81.18M	77.044M
802.11be EHT160_Nss1,(MCS0)_2TX	177.76M	156.172M	156MD1D	162.36M	156.168M
802.11be EHT320_Nss1,(MCS0)_2TX	514.8M	316.873M	317MD1D	418.88M	316.526M
6.525-6.875GHz	-	-	-	-	-
802.11be EHT20_Nss1,(MCS0)_2TX	21.23M	19.039M	19M0D1D	21.01M	18.967M
802.11be EHT40_Nss1,(MCS0)_2TX	40.81M	37.786M	37M8D1D	40.04M	37.693M
802.11be EHT80_Nss1,(MCS0)_2TX	82.72M	77.299M	77M3D1D	80.74M	77.102M
802.11be EHT160_Nss1,(MCS0)_2TX	175.56M	156.573M	157MD1D	166.76M	156.109M
802.11be EHT320_Nss1,(MCS0)_2TX	524.48M	317.224M	317MD1D	410.96M	316.19M
6.875-7.125GHz	-	-	-	-	-
802.11be EHT20_Nss1,(MCS0)_2TX	21.615M	19.077M	19M1D1D	20.955M	18.995M
802.11be EHT40_Nss1,(MCS0)_2TX	41.14M	37.785M	37M8D1D	40.04M	37.694M
802.11be EHT80_Nss1,(MCS0)_2TX	82.72M	77.329M	77M3D1D	81.4M	77.078M
802.11be EHT160_Nss1,(MCS0)_2TX	177.76M	156.471M	156MD1D	174.68M	156.209M

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

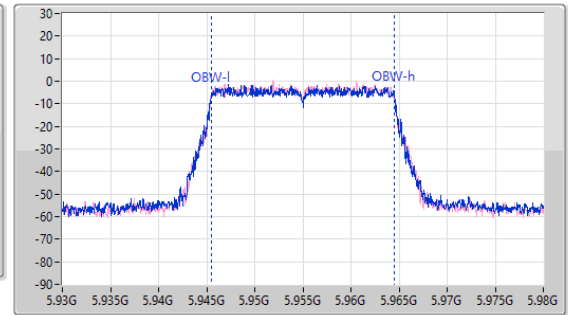
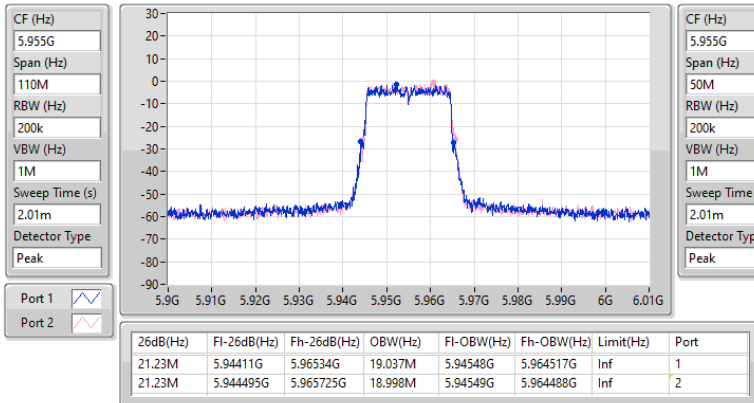
Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
802.11be EHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5955MHz	Pass	Inf	21.23M	19.037M	21.23M	18.998M
6195MHz	Pass	Inf	20.79M	18.997M	21.285M	18.965M
6415MHz	Pass	Inf	21.01M	19.019M	21.065M	19.008M
6435MHz	Pass	Inf	21.23M	19.039M	21.175M	19.002M
6475MHz	Pass	Inf	21.01M	19.004M	20.735M	18.955M
6515MHz	Pass	Inf	21.45M	19.097M	21.23M	19.01M
6535MHz	Pass	Inf	21.12M	19.005M	21.12M	19.024M
6695MHz	Pass	Inf	21.175M	18.967M	21.01M	19.039M
6875MHz	Pass	Inf	21.23M	18.988M	21.175M	18.967M
6895MHz	Pass	Inf	21.12M	19.077M	20.955M	19.022M
6995MHz	Pass	Inf	21.615M	19.005M	21.56M	19.032M
7095MHz	Pass	Inf	21.12M	18.995M	21.065M	19.006M
802.11be EHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5965MHz	Pass	Inf	40.7M	37.675M	40.04M	37.653M
6205MHz	Pass	Inf	40.81M	37.66M	40.26M	37.686M
6405MHz	Pass	Inf	40.59M	37.723M	40.15M	37.733M
6445MHz	Pass	Inf	40.04M	37.684M	40.26M	37.74M
6485MHz	Pass	Inf	40.04M	37.736M	40.26M	37.753M
6525MHz	Pass	Inf	40.81M	37.646M	40.15M	37.753M
6565MHz	Pass	Inf	40.26M	37.698M	40.04M	37.774M
6685MHz	Pass	Inf	40.37M	37.786M	40.15M	37.693M
6885MHz	Pass	Inf	40.81M	37.697M	40.04M	37.722M
6925MHz	Pass	Inf	40.26M	37.719M	40.26M	37.752M
7005MHz	Pass	Inf	41.14M	37.785M	40.04M	37.736M
7085MHz	Pass	Inf	40.59M	37.703M	40.15M	37.694M
802.11be EHT80_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5985MHz	Pass	Inf	81.4M	77.293M	80.52M	77.216M
6225MHz	Pass	Inf	80.96M	77.112M	80.96M	77.013M
6385MHz	Pass	Inf	81.18M	77.243M	81.18M	77.154M
6465MHz	Pass	Inf	81.18M	77.044M	81.18M	77.07M
6545MHz	Pass	Inf	81.84M	77.193M	81.4M	77.19M
6625MHz	Pass	Inf	82.72M	77.247M	81.62M	77.173M
6705MHz	Pass	Inf	82.06M	77.172M	80.74M	77.294M
6785MHz	Pass	Inf	81.84M	77.266M	80.96M	77.299M
6865MHz	Pass	Inf	81.62M	77.125M	81.62M	77.102M
6945MHz	Pass	Inf	82.72M	77.329M	81.4M	77.078M
7025MHz	Pass	Inf	82.5M	77.247M	81.4M	77.212M
802.11be EHT160_Nss1,(MCS0)_2TX	-	-	-	-	-	-
6025MHz	Pass	Inf	165.44M	156.109M	162.8M	156.18M
6185MHz	Pass	Inf	162.8M	156.313M	162.36M	156.34M
6345MHz	Pass	Inf	163.24M	156.214M	162.8M	156.076M
6505MHz	Pass	Inf	162.36M	156.168M	177.76M	156.172M
6665MHz	Pass	Inf	172.92M	156.573M	166.76M	156.109M
6825MHz	Pass	Inf	175.56M	156.309M	173.8M	156.359M
6985MHz	Pass	Inf	174.68M	156.209M	177.76M	156.471M
802.11be EHT320_Nss1,(MCS0)_2TX	-	-	-	-	-	-
6105MHz	Pass	Inf	410.08M	316.278M	469.04M	317.124M
6265MHz	Pass	Inf	439.12M	316.574M	579.92M	316.801M
6425MHz	Pass	Inf	462M	316.196M	438.24M	316.665M
6585MHz	Pass	Inf	418.88M	316.526M	514.8M	316.873M
6745MHz	Pass	Inf	410.96M	316.19M	516.56M	317.224M
6905MHz	Pass	Inf	434.72M	316.737M	524.48M	317.08M

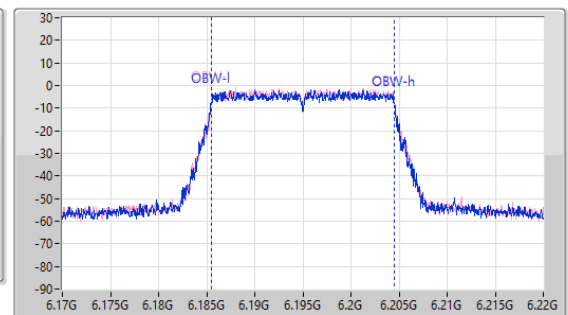
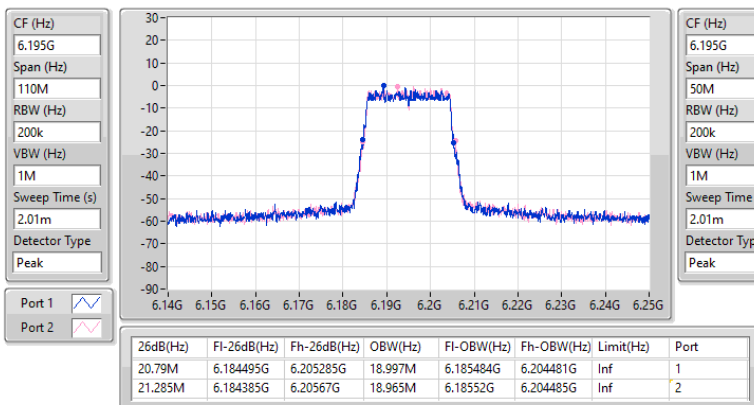
Port X-N dB = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band
Port X-OBW = Port X 99% occupied bandwidth

5.925-6.425GHz_802.11be EHT20_Nss1,(MCS0)_2TX
EBW
5955MHz

14/11/2024

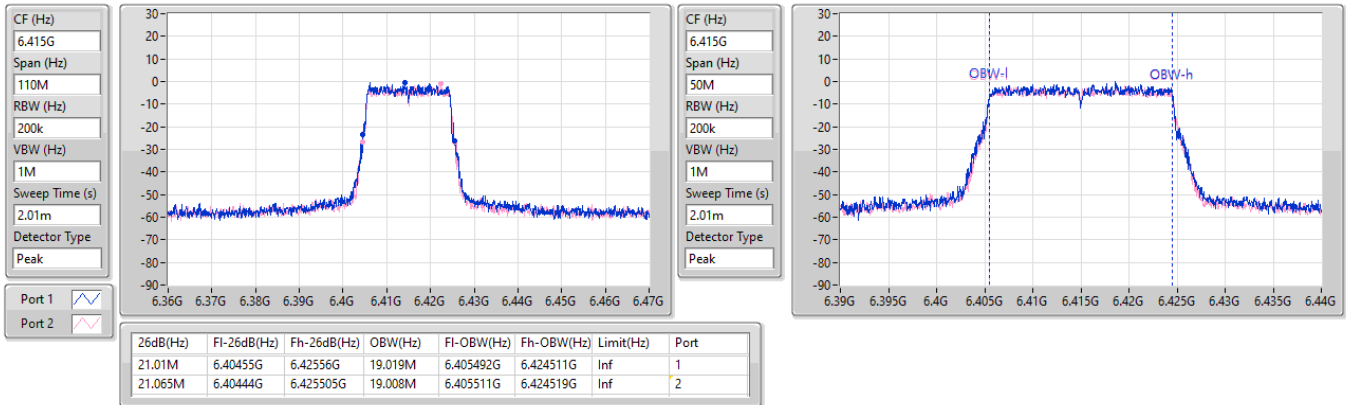

5.925-6.425GHz_802.11be EHT20_Nss1,(MCS0)_2TX
EBW
6195MHz

14/11/2024

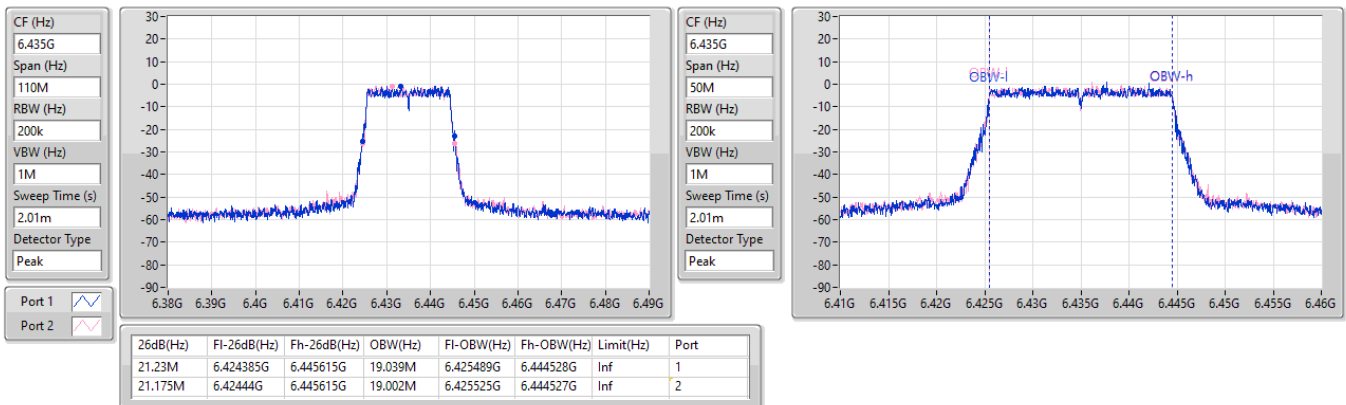


5.925-6.425GHz_802.11be EHT20_Nss1,(MCS0)_2TX
EBW
6415MHz

14/11/2024

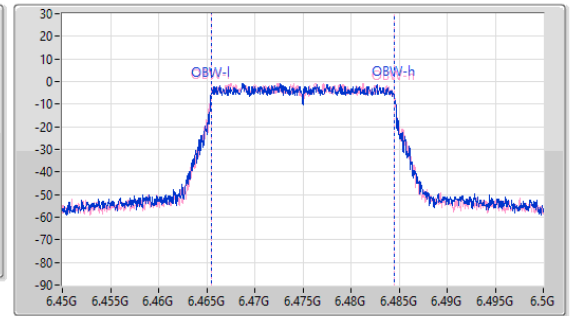
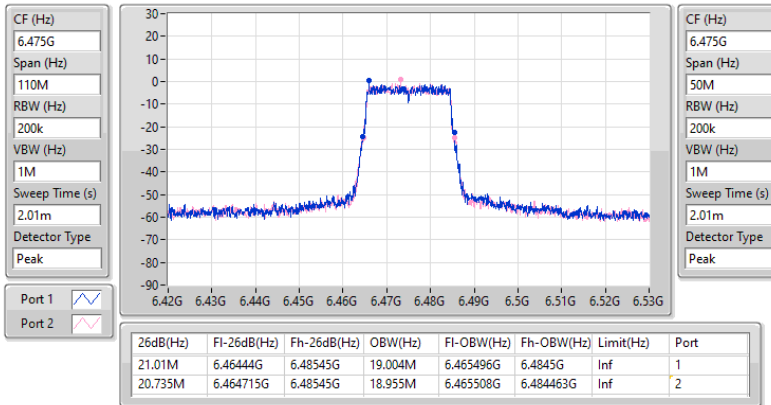

6.425-6.525GHz_802.11be EHT20_Nss1,(MCS0)_2TX
EBW
6435MHz

14/11/2024

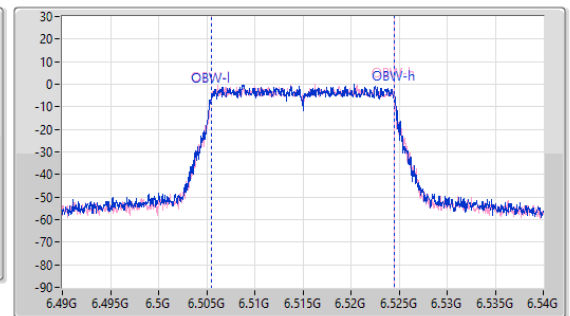
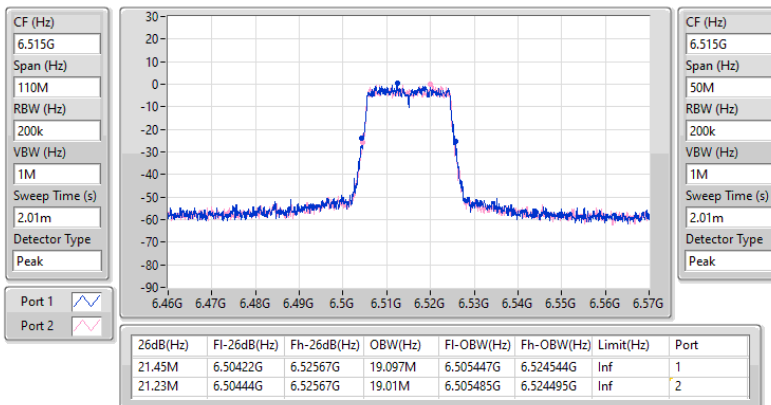


6.425-6.525GHz_802.11be EHT20_Nss1,(MCS0)_2TX
EBW
6475MHz

14/11/2024

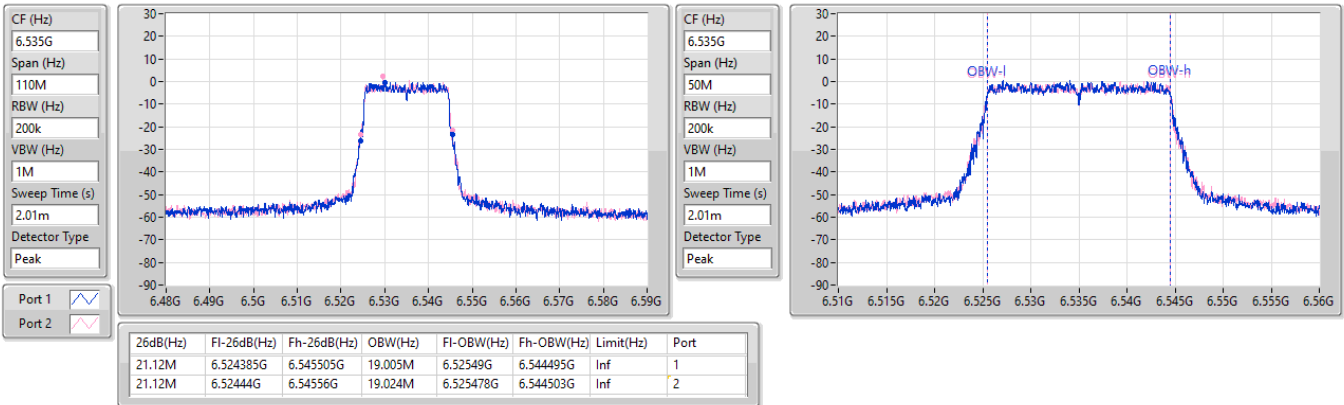

6.425-6.525GHz_802.11be EHT20_Nss1,(MCS0)_2TX
EBW
6515MHz

14/11/2024

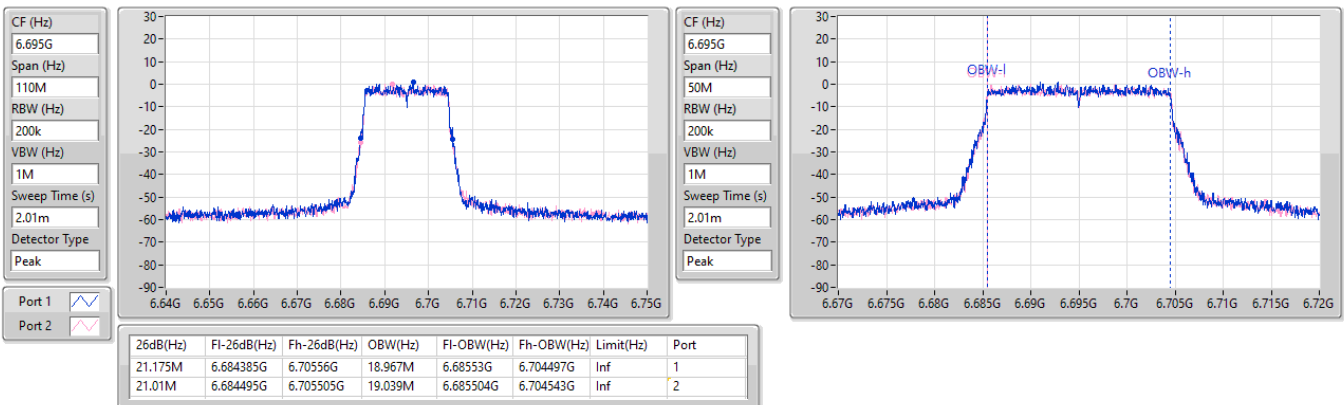


6.525-6.875GHz_802.11be EHT20_Nss1,(MCS0)_2TX
EBW
6535MHz

14/11/2024

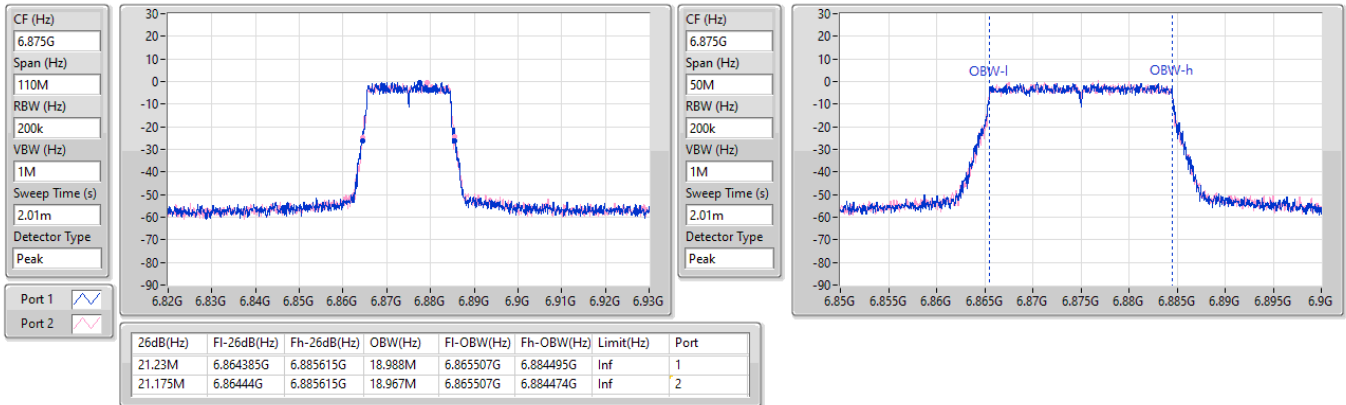

6.525-6.875GHz_802.11be EHT20_Nss1,(MCS0)_2TX
EBW
6695MHz

14/11/2024

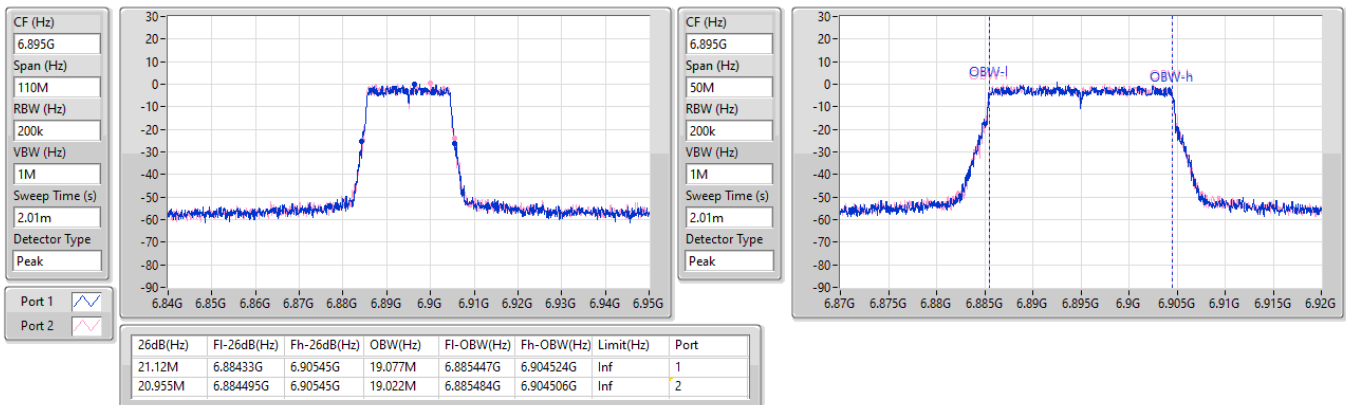


6.525-6.875GHz_802.11be EHT20_Nss1,(MCS0)_2TX
EBW
6875MHz

14/11/2024

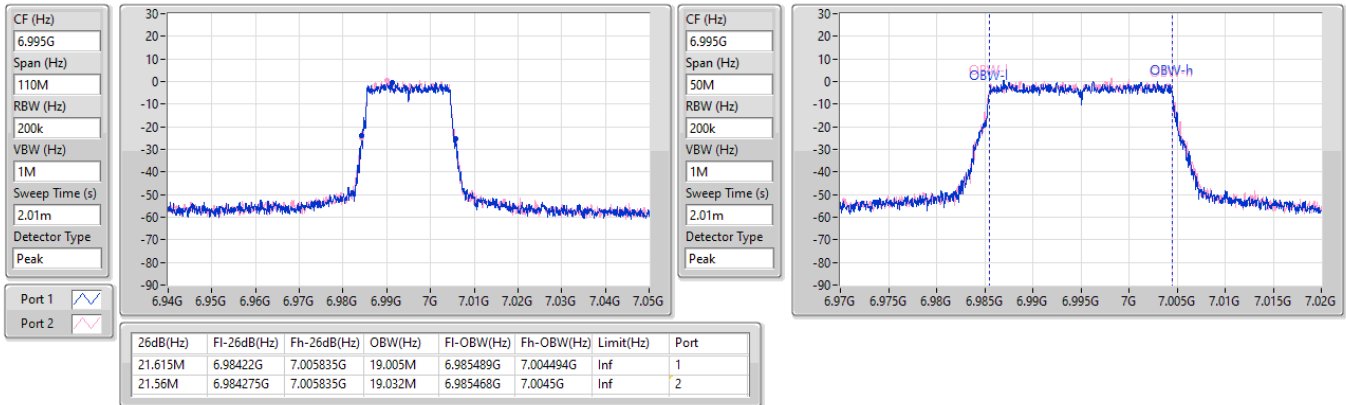

6.875-7.125GHz_802.11be EHT20_Nss1,(MCS0)_2TX
EBW
6895MHz

14/11/2024

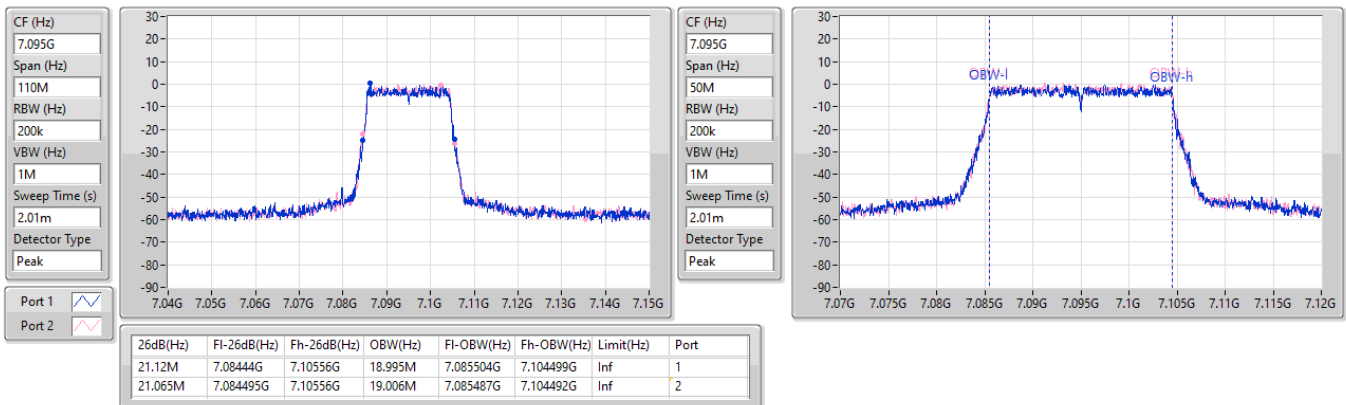


6.875-7.125GHz_802.11be EHT20_Nss1,(MCS0)_2TX
EBW
6995MHz

14/11/2024

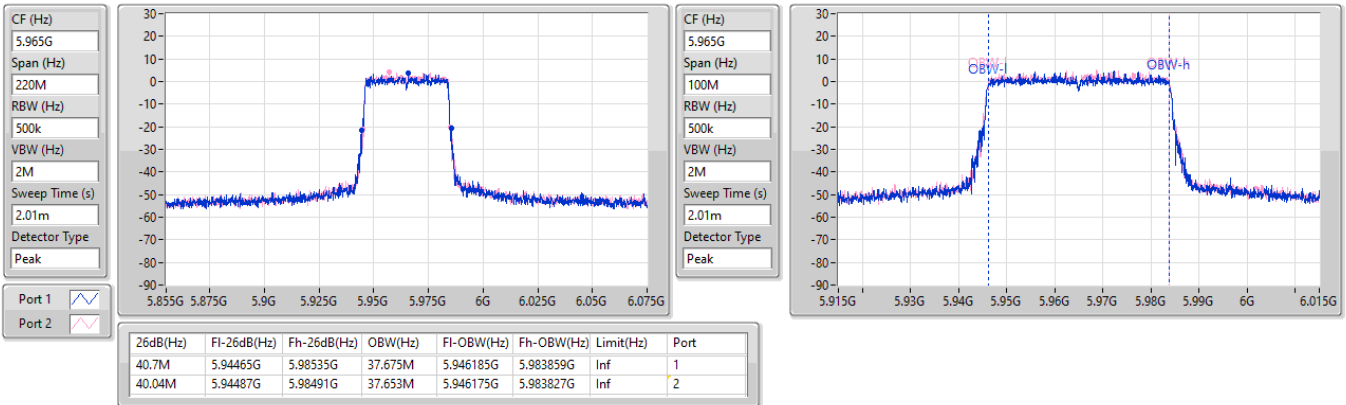

6.875-7.125GHz_802.11be EHT20_Nss1,(MCS0)_2TX
EBW
7095MHz

14/11/2024

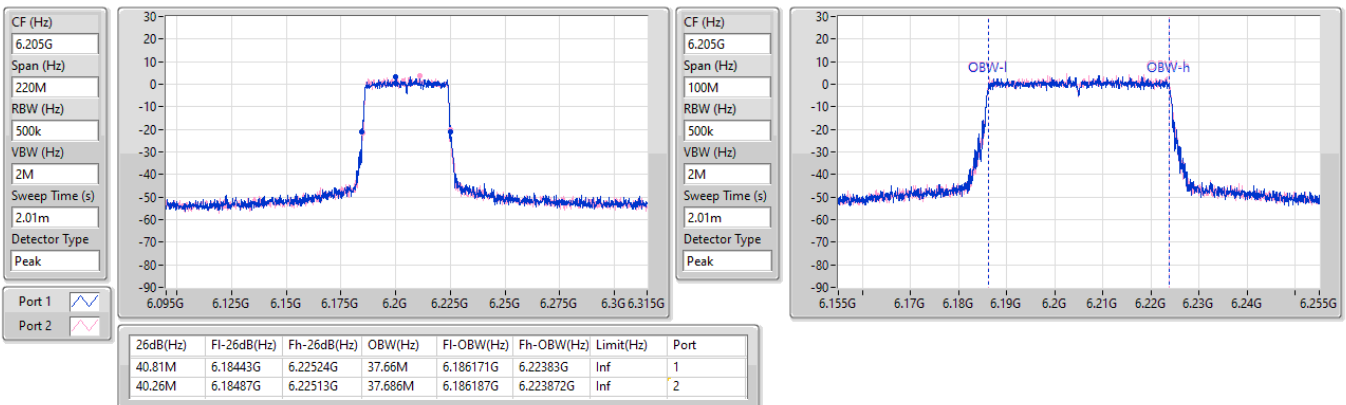


5.925-6.425GHz_802.11be EHT40_Nss1,(MCS0)_2TX
EBW
5965MHz

15/11/2024


5.925-6.425GHz_802.11be EHT40_Nss1,(MCS0)_2TX
EBW
6205MHz

15/11/2024

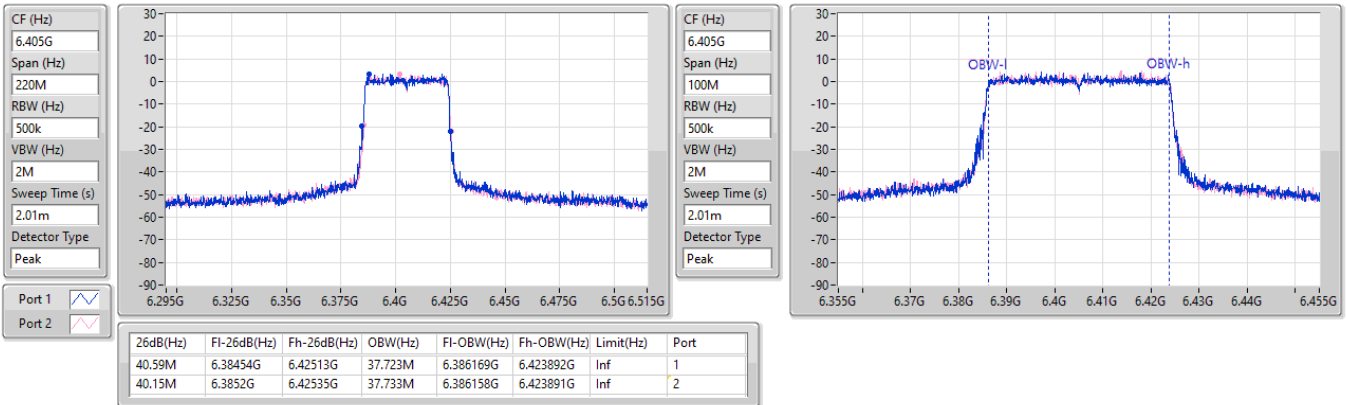


5.925-6.425GHz_802.11be EHT40_Nss1,(MCS0)_2TX

EBW

6405MHz

15/11/2024

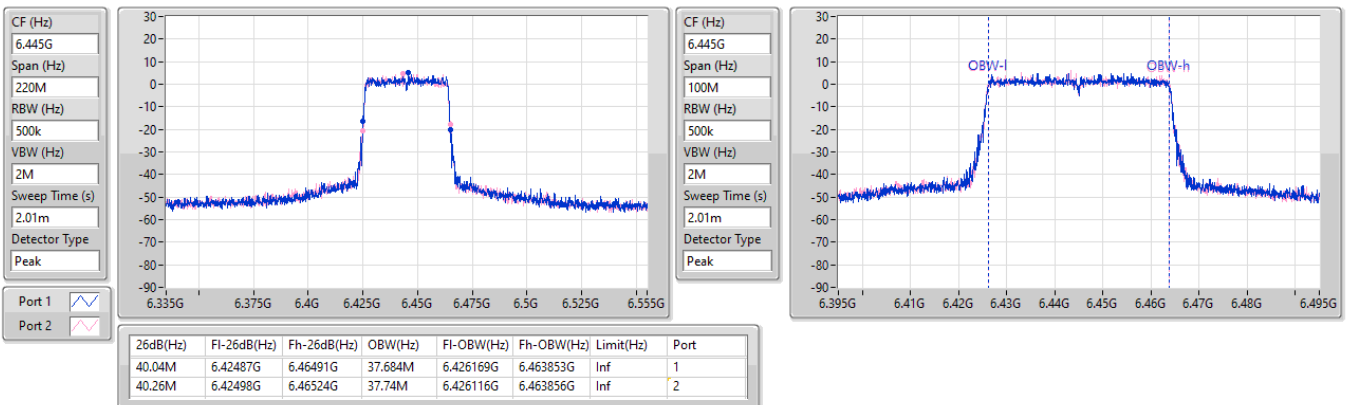


6.425-6.525GHz_802.11be EHT40_Nss1,(MCS0)_2TX

EBW

6445MHz

15/11/2024

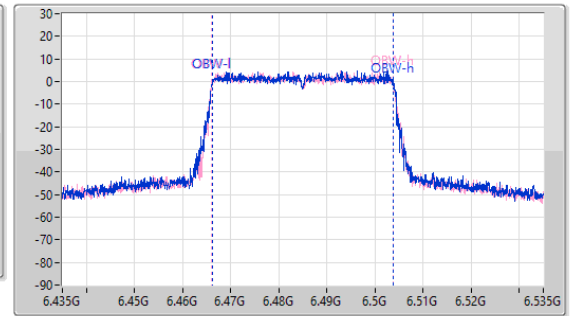
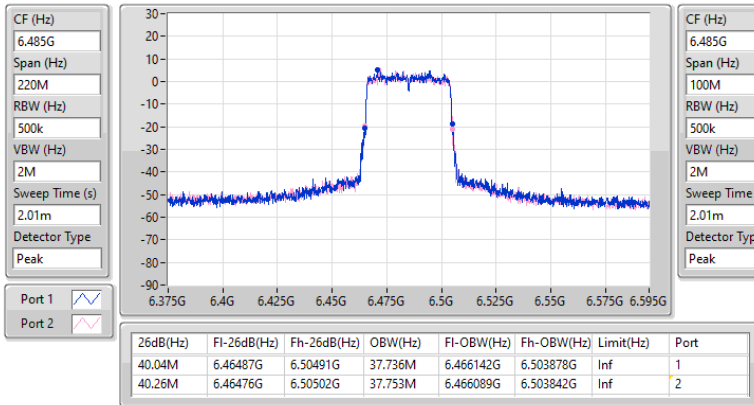


6.425-6.525GHz_802.11be EHT40_Nss1,(MCS0)_2TX

EBW

6485MHz

15/11/2024

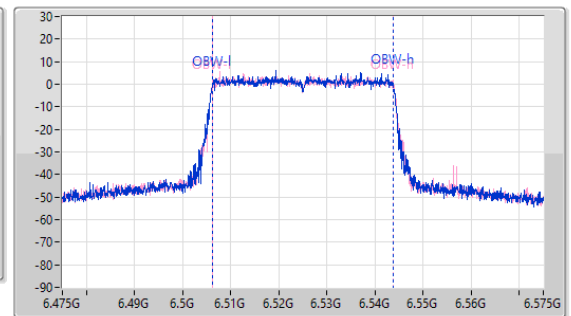
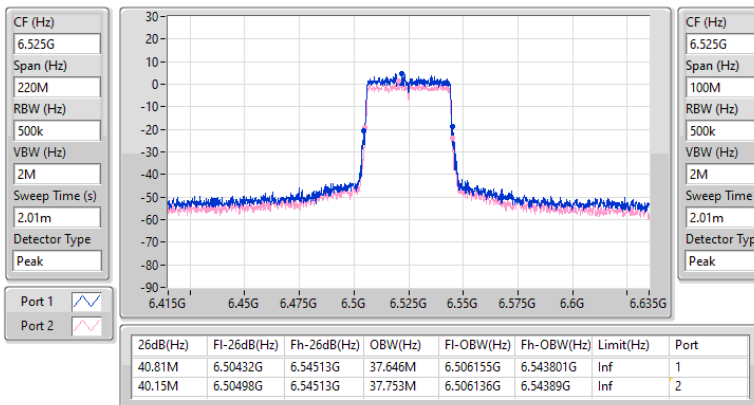


6.425-6.525GHz_802.11be EHT40_Nss1,(MCS0)_2TX

EBW

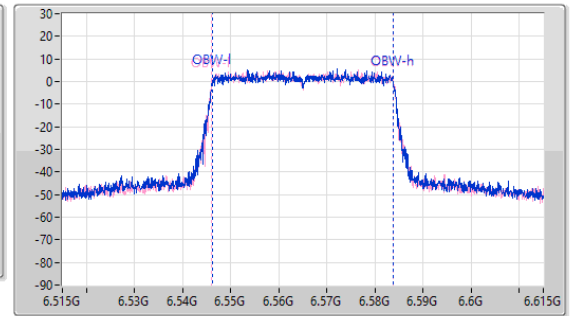
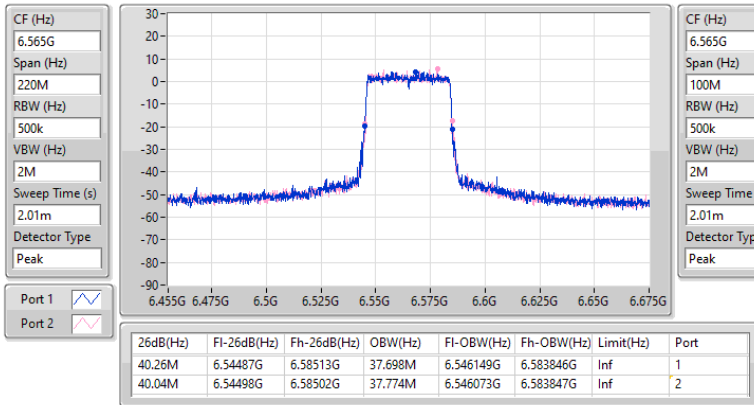
6525MHz

15/11/2024

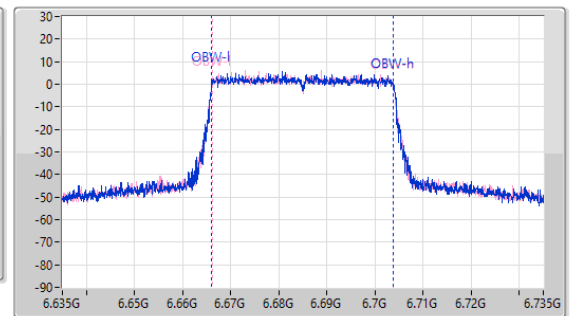
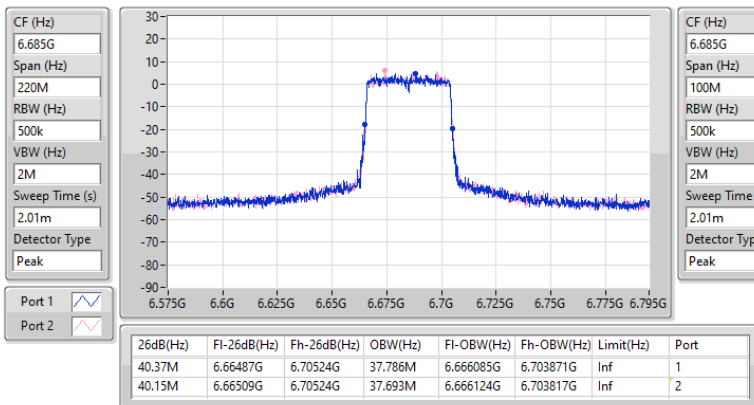


6.525-6.875GHz_802.11be EHT40_Nss1,(MCS0)_2TX
EBW
6565MHz

15/11/2024

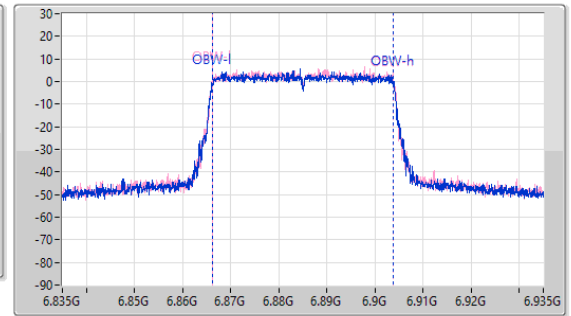
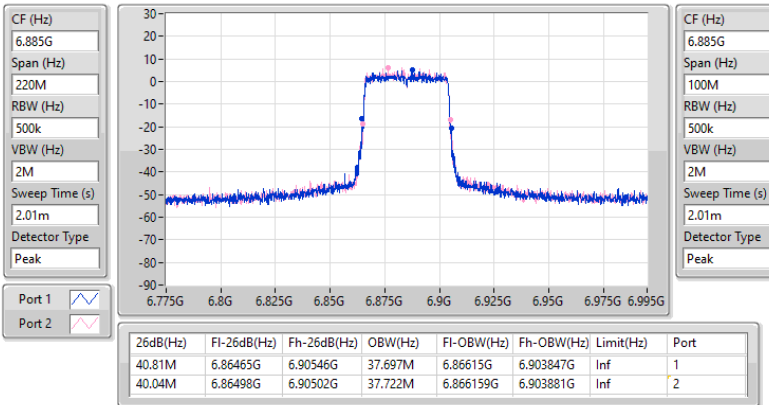

6.525-6.875GHz_802.11be EHT40_Nss1,(MCS0)_2TX
EBW
6685MHz

15/11/2024

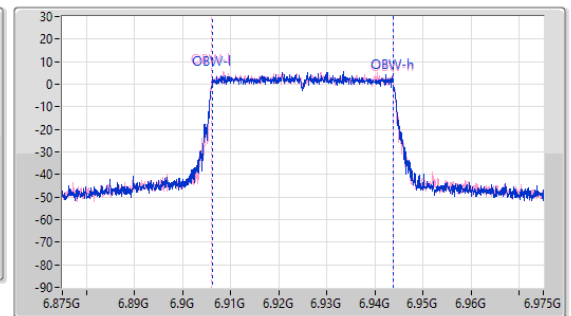
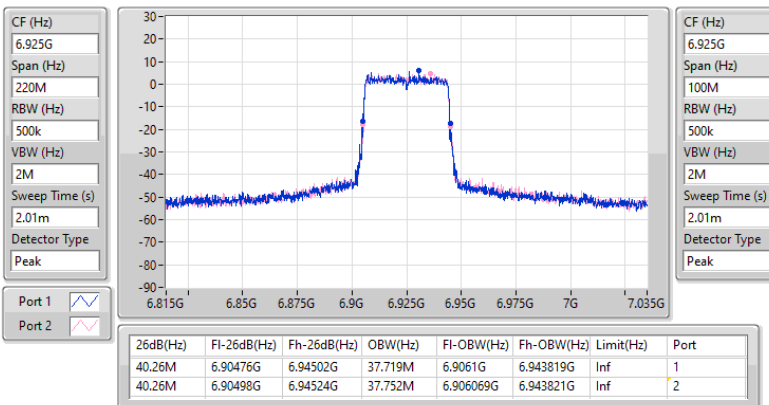


6.525-6.875GHz_802.11be EHT40_Nss1,(MCS0)_2TX
EBW
6885MHz

15/11/2024


6.875-7.125GHz_802.11be EHT40_Nss1,(MCS0)_2TX
EBW
6925MHz

15/11/2024

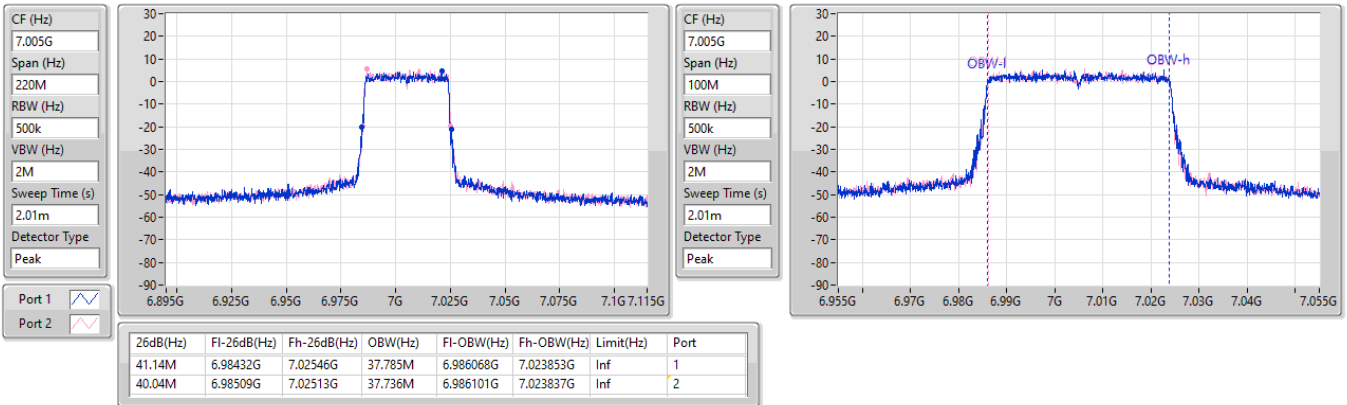


6.875-7.125GHz_802.11be EHT40_Nss1,(MCS0)_2TX

EBW

7005MHz

15/11/2024

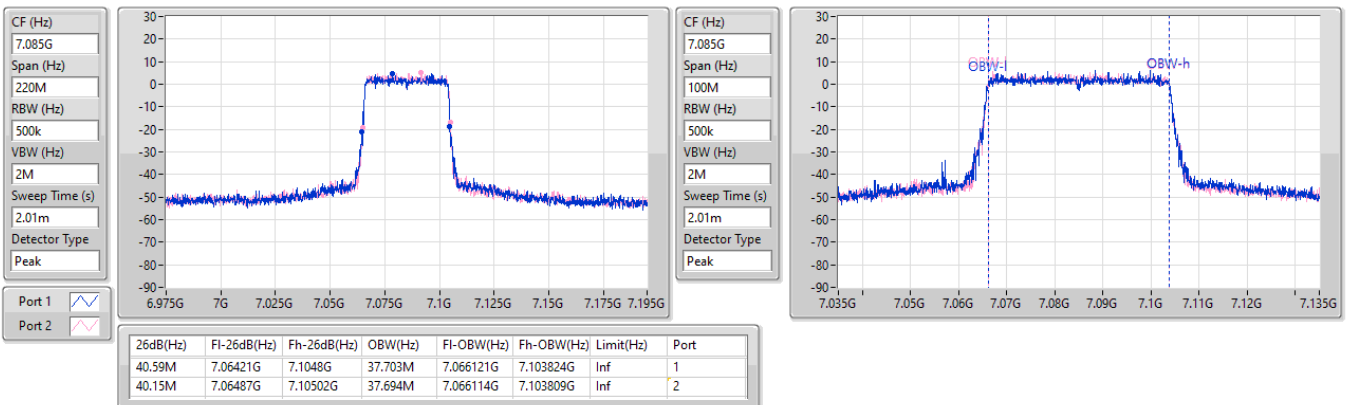


6.875-7.125GHz_802.11be EHT40_Nss1,(MCS0)_2TX

EBW

7085MHz

15/11/2024

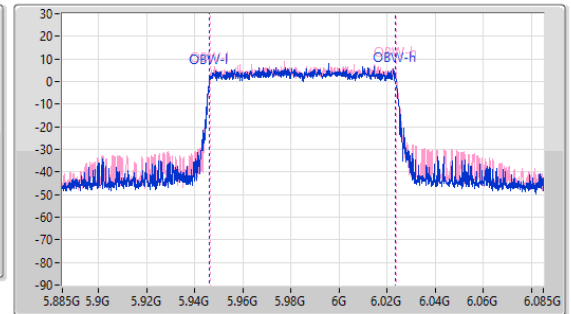
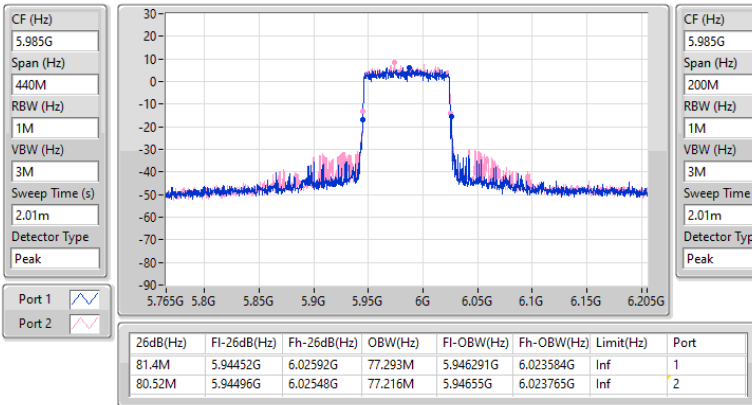


5.925-6.425GHz_802.11be EHT80_Nss1,(MCS0)_2TX

EBW

5985MHz

15/11/2024

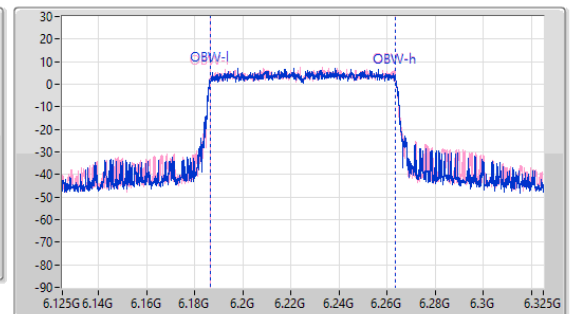
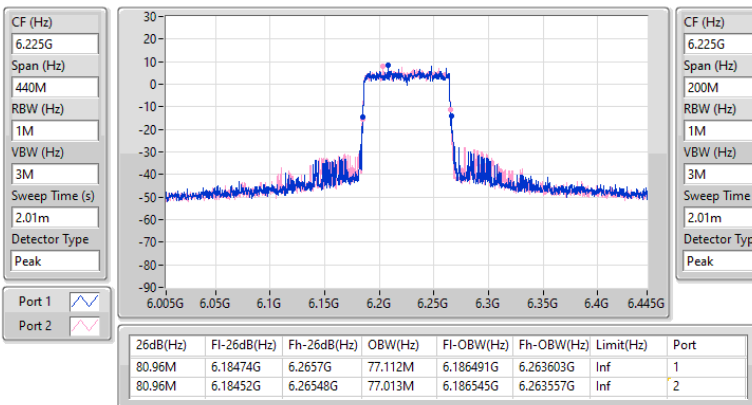


5.925-6.425GHz_802.11be EHT80_Nss1,(MCS0)_2TX

EBW

6225MHz

15/11/2024

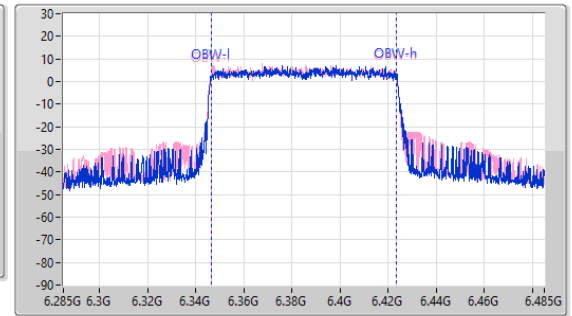
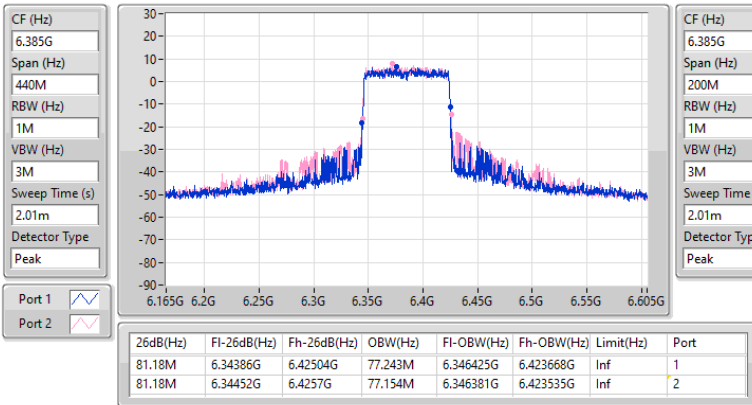


5.925-6.425GHz_802.11be EHT80_Nss1,(MCS0)_2TX

EBW

6385MHz

15/11/2024

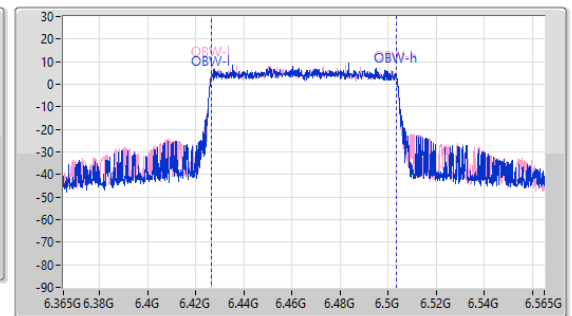
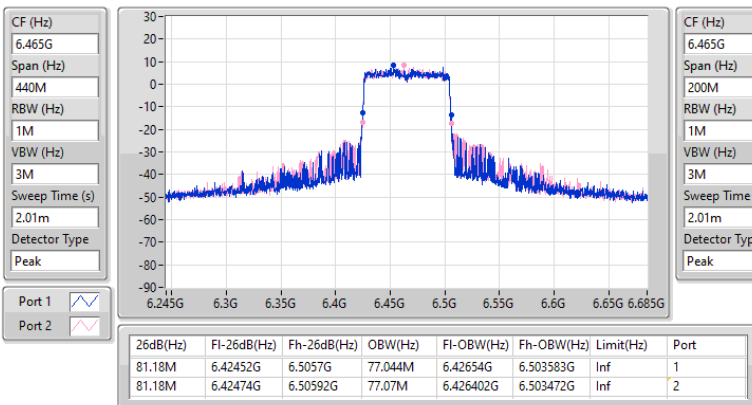


6.425-6.525GHz_802.11be EHT80_Nss1,(MCS0)_2TX

EBW

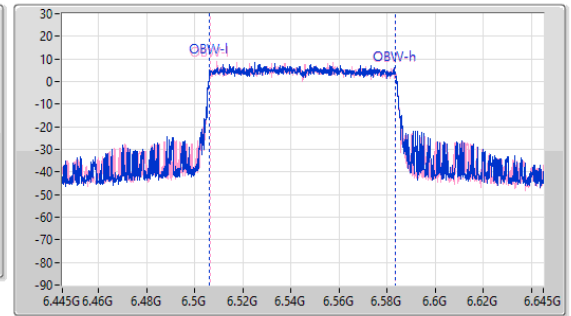
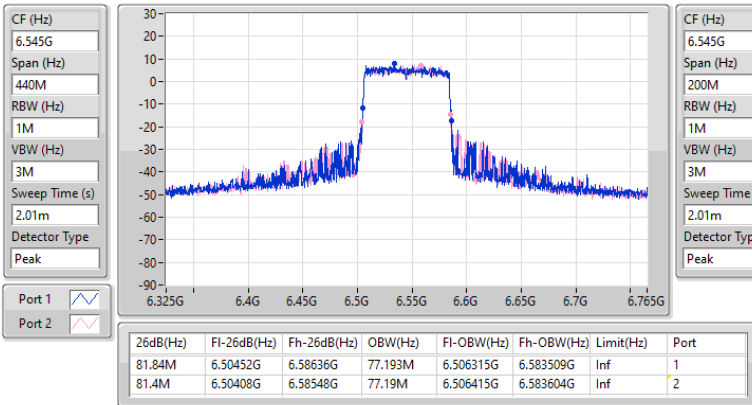
6465MHz

15/11/2024

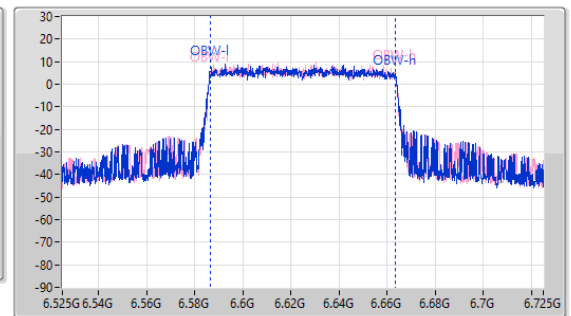
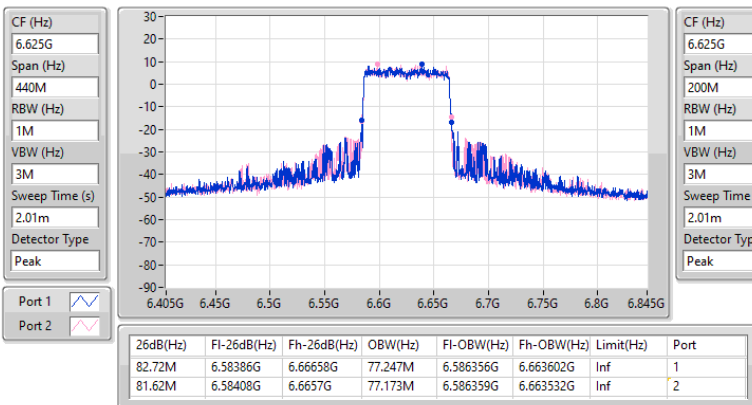


6.425-6.525GHz_802.11be EHT80_Nss1,(MCS0)_2TX
EBW
6545MHz

15/11/2024

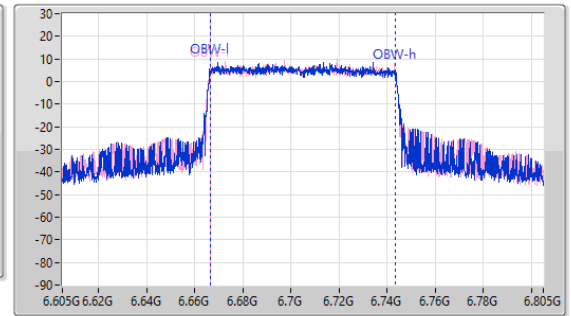
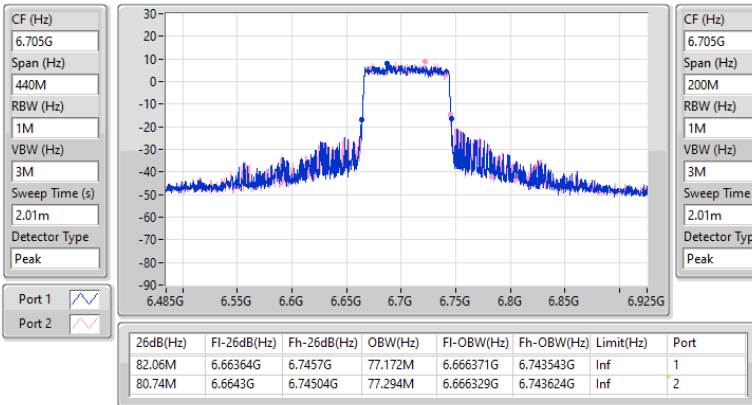

6.525-6.875GHz_802.11be EHT80_Nss1,(MCS0)_2TX
EBW
6625MHz

15/11/2024

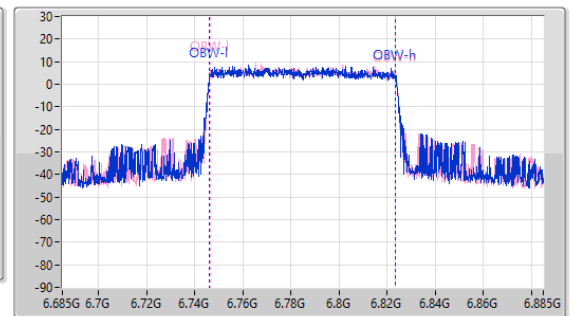
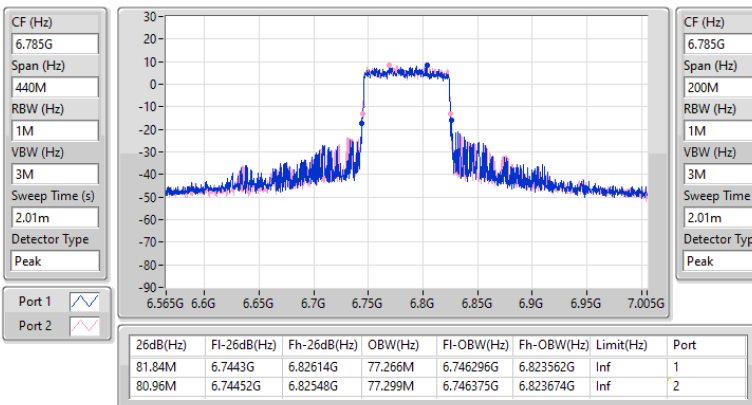


6.525-6.875GHz_802.11be EHT80_Nss1,(MCS0)_2TX
EBW
6705MHz

15/11/2024


6.525-6.875GHz_802.11be EHT80_Nss1,(MCS0)_2TX
EBW
6785MHz

15/11/2024

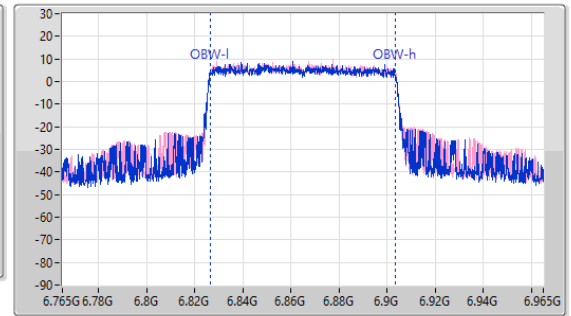
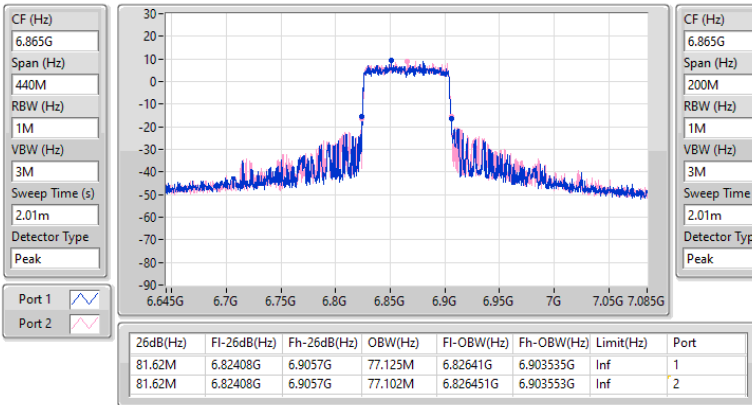


6.525-6.875GHz_802.11be EHT80_Nss1,(MCS0)_2TX

EBW

6865MHz

15/11/2024

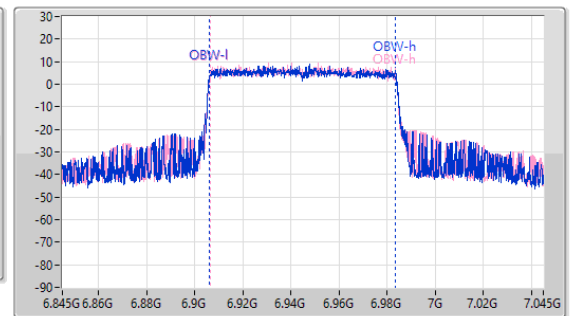
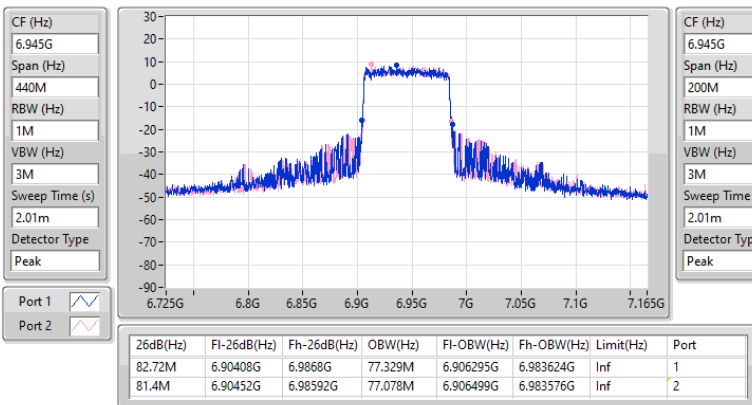


6.875-7.125GHz_802.11be EHT80_Nss1,(MCS0)_2TX

EBW

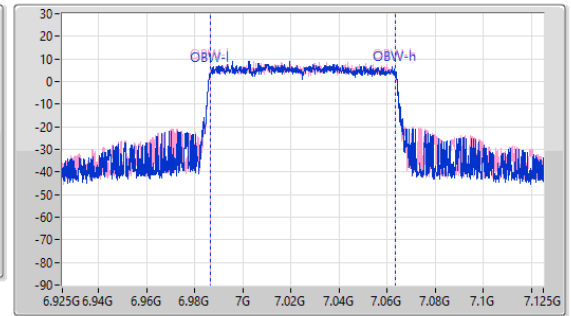
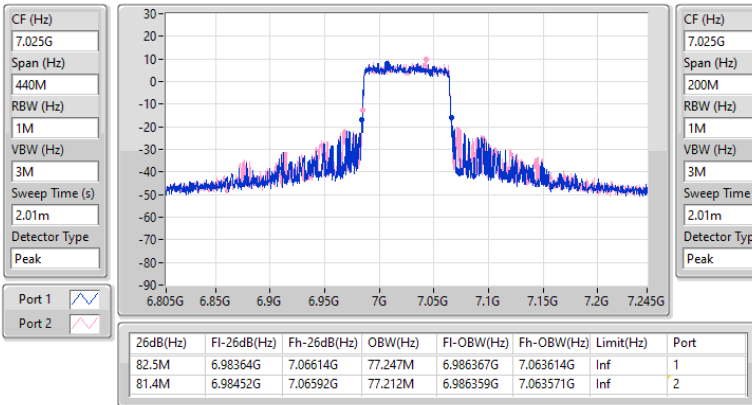
6945MHz

15/11/2024

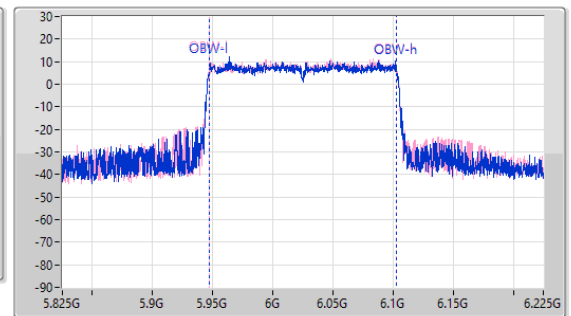
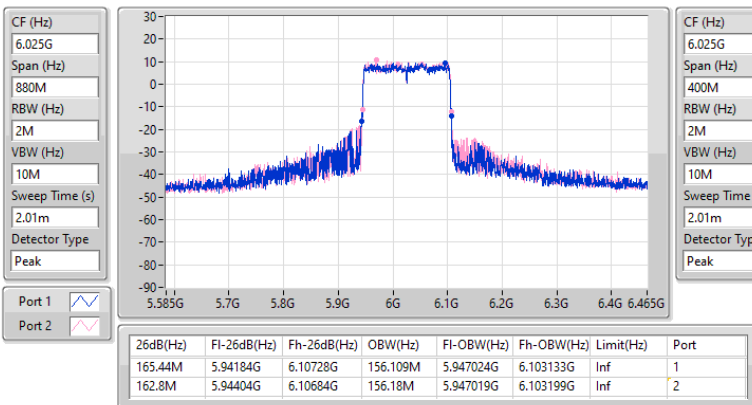


6.875-7.125GHz_802.11be EHT80_Nss1,(MCS0)_2TX
EBW
7025MHz

15/11/2024


5.925-6.425GHz_802.11be EHT160_Nss1,(MCS0)_2TX
EBW
6025MHz

15/11/2024

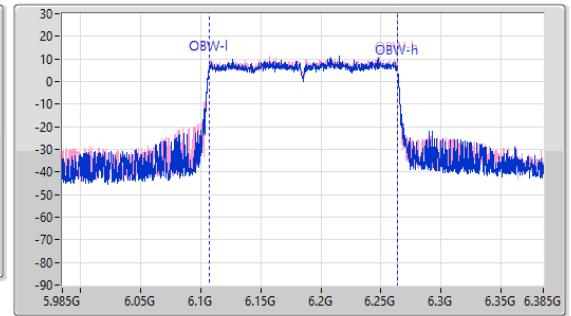
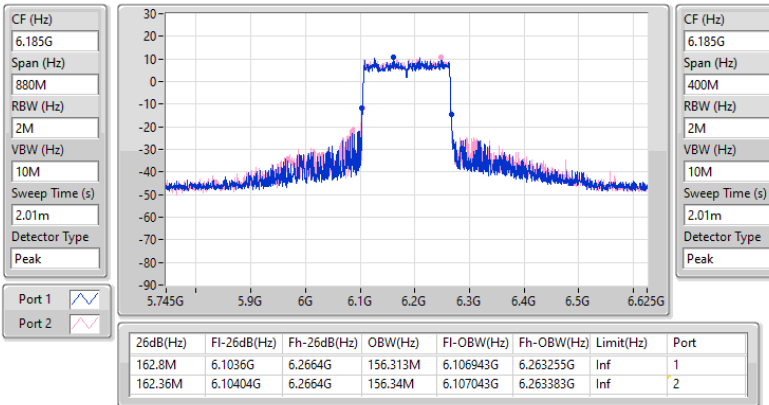


5.925-6.425GHz_802.11be EHT160_Nss1,(MCS0)_2TX

EBW

6185MHz

15/11/2024

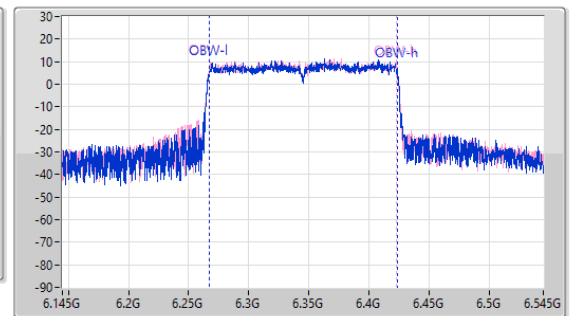
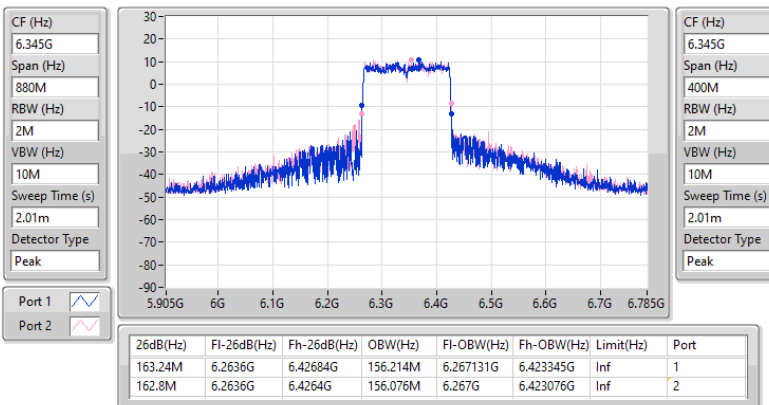


5.925-6.425GHz_802.11be EHT160_Nss1,(MCS0)_2TX

EBW

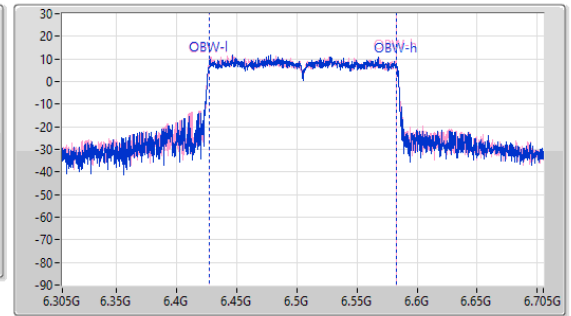
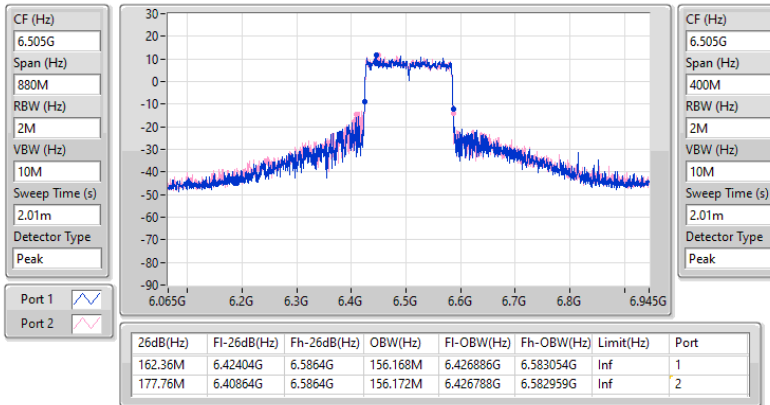
6345MHz

15/11/2024

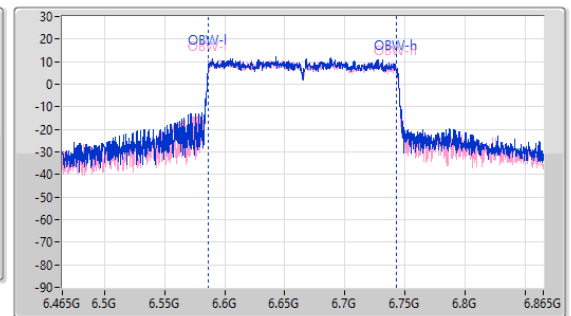
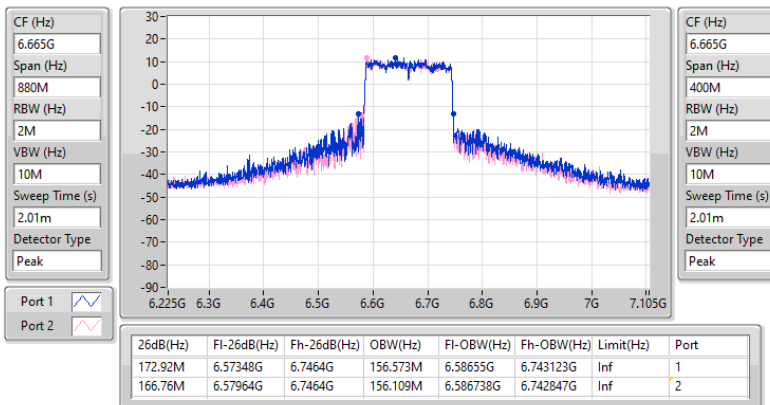


6.425-6.525GHz_802.11be EHT160_Nss1,(MCS0)_2TX
EBW
6505MHz

15/11/2024


6.525-6.875GHz_802.11be EHT160_Nss1,(MCS0)_2TX
EBW
6665MHz

15/11/2024

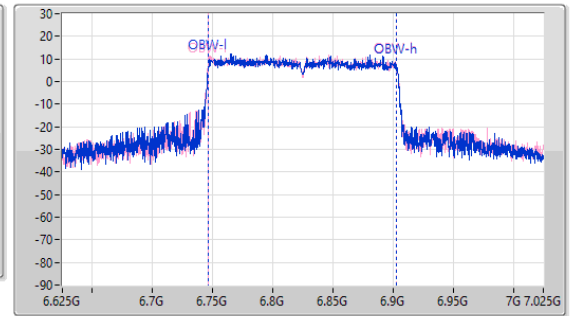
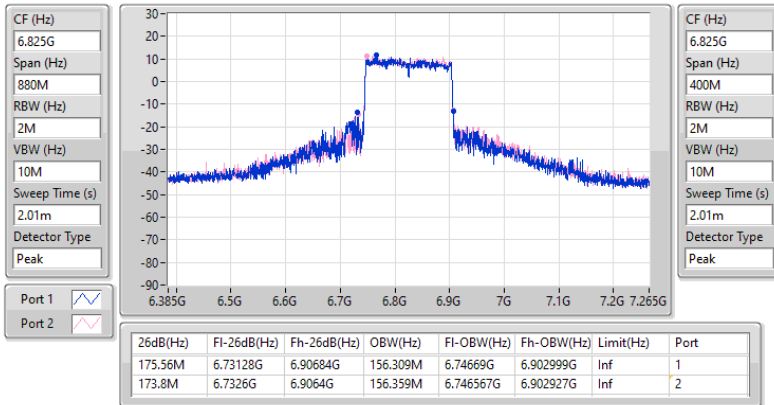


6.525-6.875GHz_802.11be EHT160_Nss1,(MCS0)_2TX

EBW

6825MHz

15/11/2024

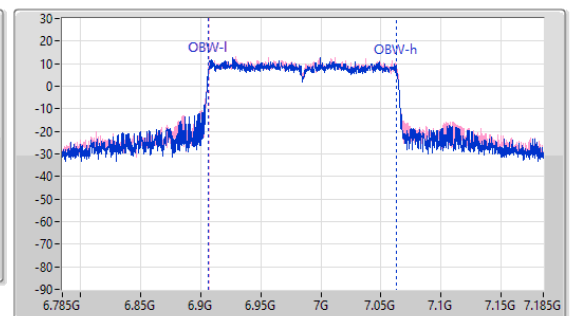
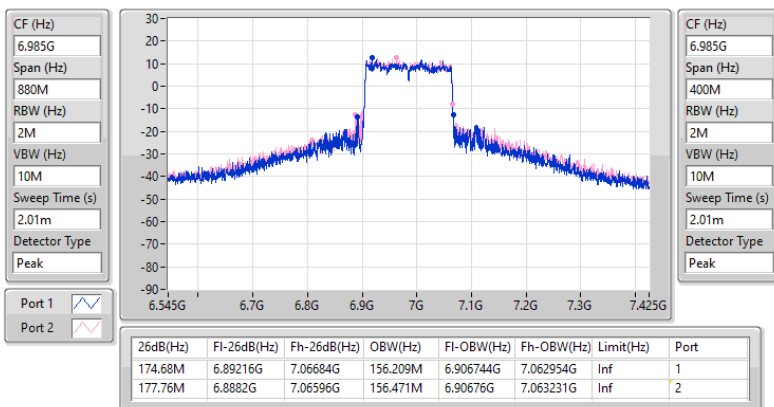


6.875-7.125GHz_802.11be EHT160_Nss1,(MCS0)_2TX

EBW

6985MHz

15/11/2024

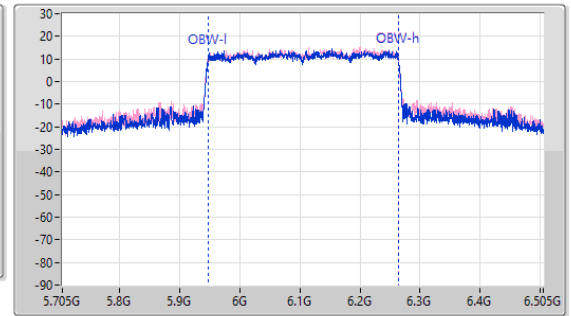
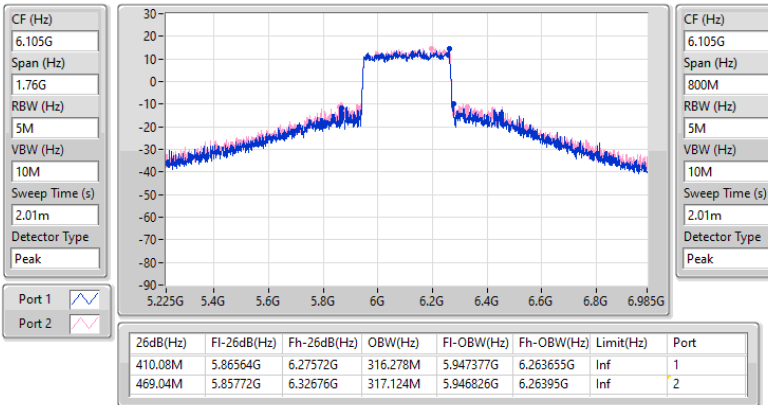


5.925-6.425GHz_802.11be EHT320_Nss1,(MCS0)_2TX

EBW

6105MHz

15/11/2024

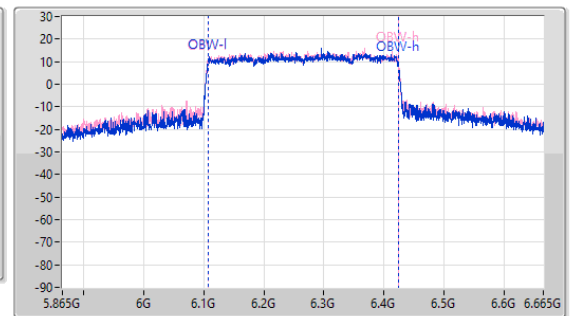
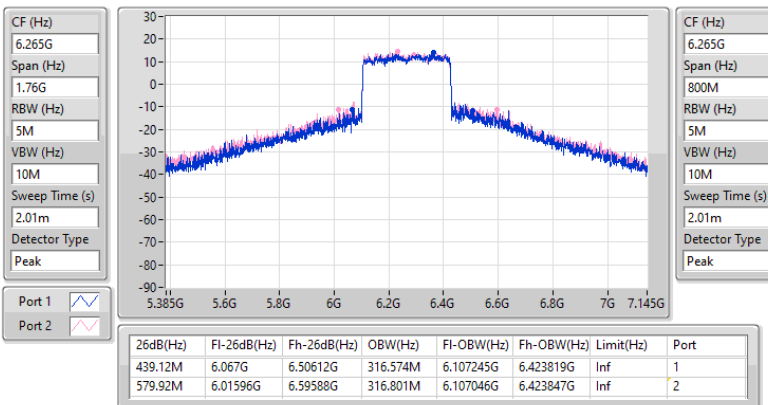


5.925-6.425GHz_802.11be EHT320_Nss1,(MCS0)_2TX

EBW

6265MHz

15/11/2024

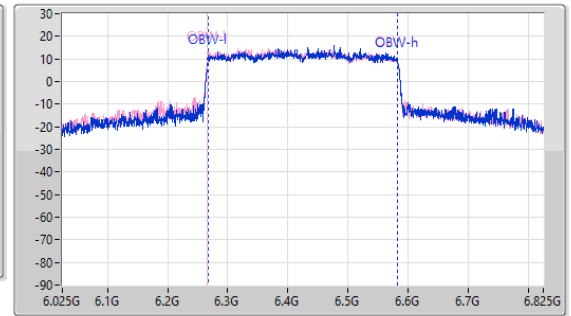
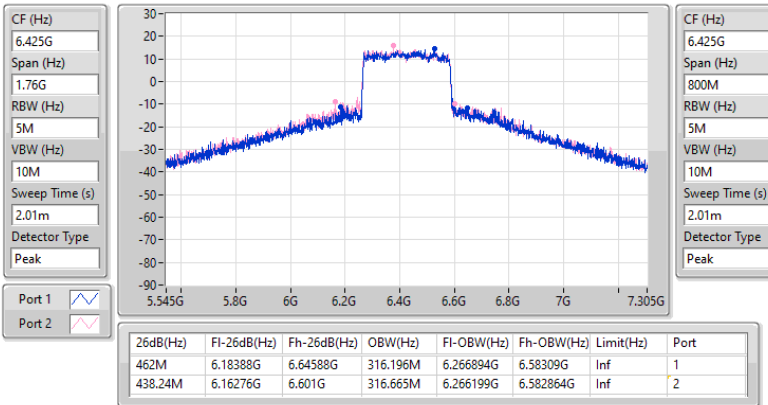


5.925-6.425GHz_802.11be EHT320_Nss1,(MCS0)_2TX

EBW

6425MHz

15/11/2024

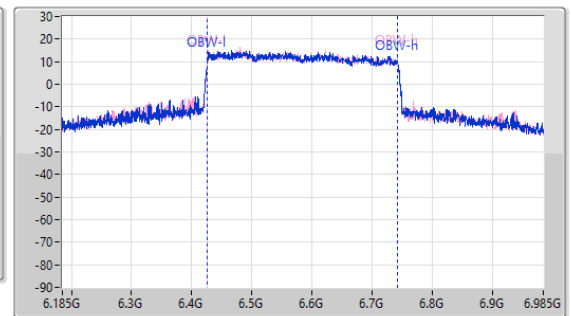
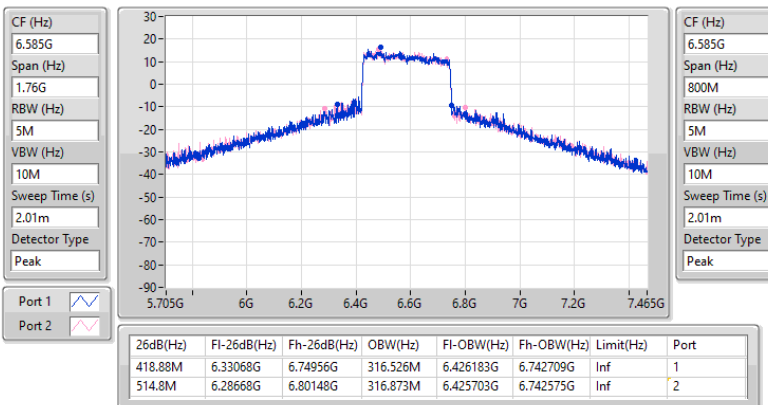


6.425-6.525GHz_802.11be EHT320_Nss1,(MCS0)_2TX

EBW

6585MHz

15/11/2024

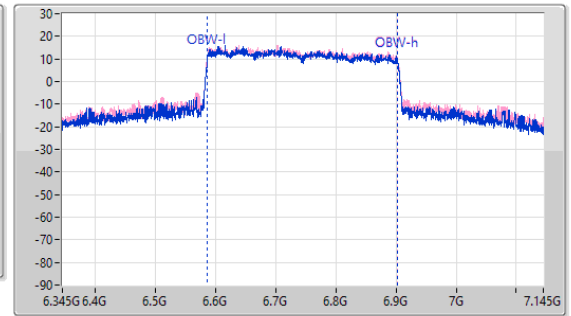
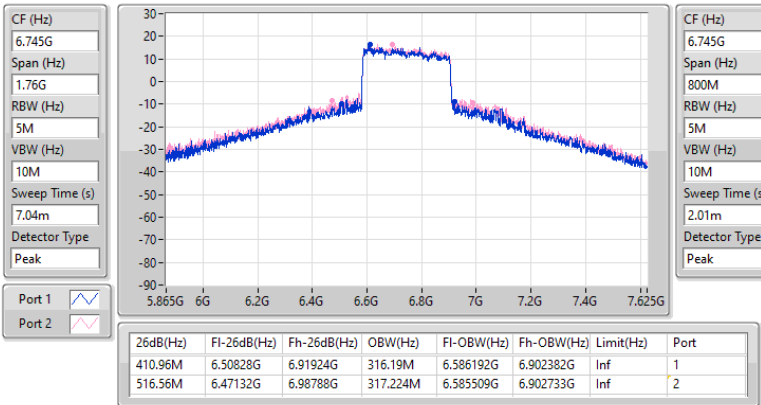


6.525-6.875GHz_802.11be EHT320_Nss1,(MCS0)_2TX

EBW

6745MHz

15/11/2024

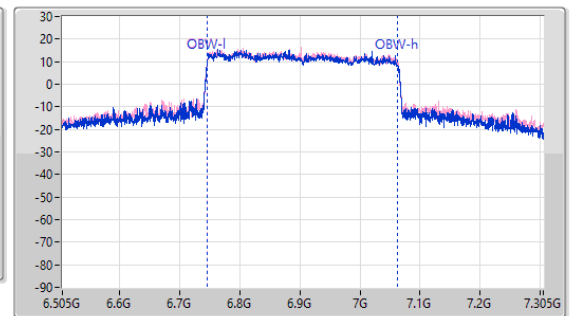
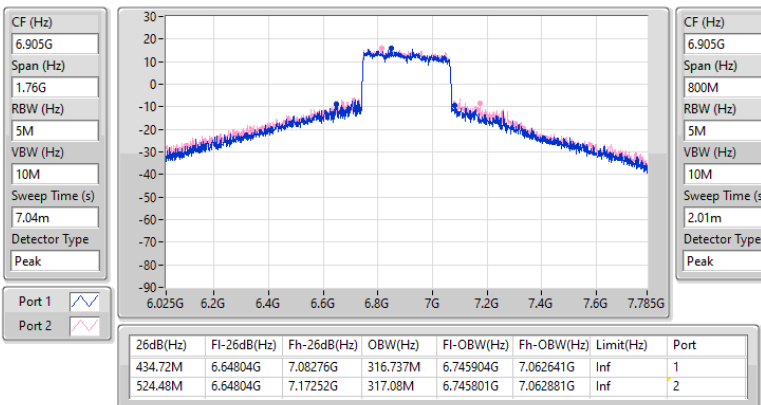


6.525-6.875GHz_802.11be EHT320_Nss1,(MCS0)_2TX

EBW

6905MHz

15/11/2024



Test Mode: Mode 4
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)_4TX	21.45M	19.041M	19M0D1D	20.845M	18.953M
802.11be EHT40_Nss1,(MCS0)_4TX	40.7M	37.776M	37M8D1D	39.38M	37.577M
802.11be EHT80_Nss1,(MCS0)_4TX	81.84M	77.265M	77M3D1D	80.3M	76.597M
802.11be EHT160_Nss1,(MCS0)_4TX	163.68M	156.598M	157MD1D	162.36M	155.05M
802.11be EHT320_Nss1,(MCS0)_4TX	324.72M	315.408M	315MD1D	323.84M	312.354M
6.425-6.525GHz	-	-	-	-	-
802.11be EHT20_Nss1,(MCS0)_4TX	21.56M	19.048M	19M0D1D	20.845M	18.95M
802.11be EHT40_Nss1,(MCS0)_4TX	40.48M	37.834M	37M8D1D	40.04M	37.591M
802.11be EHT80_Nss1,(MCS0)_4TX	81.62M	77.303M	77M3D1D	80.3M	77.011M
802.11be EHT160_Nss1,(MCS0)_4TX	163.68M	156.549M	157MD1D	162.36M	156.331M
802.11be EHT320_Nss1,(MCS0)_4TX	326.48M	314.971M	315MD1D	323.84M	314.473M
6.525-6.875GHz	-	-	-	-	-
802.11be EHT20_Nss1,(MCS0)_4TX	21.45M	19.063M	19M1D1D	20.955M	18.932M
802.11be EHT40_Nss1,(MCS0)_4TX	40.81M	37.872M	37M9D1D	39.71M	37.636M
802.11be EHT80_Nss1,(MCS0)_4TX	82.06M	77.214M	77M2D1D	80.74M	76.967M
802.11be EHT160_Nss1,(MCS0)_4TX	163.68M	156.406M	156MD1D	162.36M	156.078M
802.11be EHT320_Nss1,(MCS0)_4TX	326.48M	316.284M	316MD1D	324.72M	314.083M
6.875-7.125GHz	-	-	-	-	-
802.11be EHT20_Nss1,(MCS0)_4TX	21.67M	19.075M	19M1D1D	20.955M	18.942M
802.11be EHT40_Nss1,(MCS0)_4TX	40.48M	37.8M	37M8D1D	39.05M	37.645M
802.11be EHT80_Nss1,(MCS0)_4TX	82.06M	77.228M	77M2D1D	80.3M	77.044M
802.11be EHT160_Nss1,(MCS0)_4TX	164.12M	156.44M	156MD1D	163.24M	156.077M

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

Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)	Port 3-N dB (Hz)	Port 3-OBW (Hz)	Port 4-N dB (Hz)	Port 4-OBW (Hz)
802.11be EHT20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5955MHz	Pass	Inf	20.845M	18.968M	21.175M	18.99M	20.9M	18.976M	21.12M	18.98M
6195MHz	Pass	Inf	21.395M	19.041M	21.285M	18.982M	20.955M	19.012M	21.285M	19.033M
6415MHz	Pass	Inf	21.45M	18.953M	21.23M	18.985M	21.175M	18.966M	21.12M	18.994M
6435MHz	Pass	Inf	21.01M	18.983M	21.395M	19.039M	21.56M	19.001M	21.01M	18.95M
6475MHz	Pass	Inf	20.845M	18.983M	21.285M	19.04M	21.01M	19.048M	21.505M	18.979M
6515MHz	Pass	Inf	21.34M	19.019M	21.395M	18.973M	21.23M	19.046M	21.12M	19.04M
6535MHz	Pass	Inf	21.45M	18.969M	21.23M	19.063M	21.01M	19.003M	21.12M	18.976M
6695MHz	Pass	Inf	20.955M	18.987M	21.12M	19.029M	21.065M	18.932M	21.285M	19.001M
6875MHz	Pass	Inf	21.175M	19.007M	21.175M	18.94M	21.01M	18.958M	21.45M	19.003M
6895MHz	Pass	Inf	20.955M	18.991M	21.065M	19.042M	21.34M	19.018M	21.34M	18.98M
6995MHz	Pass	Inf	21.45M	18.992M	21.45M	19.075M	21.065M	18.998M	21.065M	19.006M
7095MHz	Pass	Inf	21.395M	18.988M	21.175M	18.942M	21.67M	18.982M	21.34M	19.008M
802.11be EHT40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5965MHz	Pass	Inf	39.93M	37.577M	39.82M	37.705M	39.93M	37.577M	39.38M	37.601M
6205MHz	Pass	Inf	40.48M	37.766M	40.7M	37.708M	40.37M	37.749M	40.04M	37.74M
6405MHz	Pass	Inf	40.48M	37.639M	40.48M	37.73M	40.04M	37.724M	40.04M	37.776M
6445MHz	Pass	Inf	40.04M	37.591M	40.15M	37.691M	40.37M	37.816M	40.37M	37.834M
6485MHz	Pass	Inf	40.26M	37.684M	40.26M	37.729M	40.48M	37.756M	40.37M	37.689M
6525MHz	Pass	Inf	40.48M	37.782M	40.15M	37.691M	40.37M	37.785M	40.48M	37.688M
6565MHz	Pass	Inf	40.59M	37.71M	39.71M	37.713M	39.93M	37.764M	39.82M	37.721M
6685MHz	Pass	Inf	40.15M	37.636M	40.04M	37.872M	40.81M	37.706M	40.04M	37.746M
6885MHz	Pass	Inf	40.26M	37.742M	40.37M	37.752M	40.81M	37.682M	40.48M	37.727M
6925MHz	Pass	Inf	39.82M	37.795M	39.71M	37.8M	39.05M	37.645M	40.48M	37.741M
7005MHz	Pass	Inf	40.48M	37.742M	40.37M	37.796M	39.71M	37.726M	39.93M	37.775M
7085MHz	Pass	Inf	40.04M	37.704M	40.48M	37.744M	39.49M	37.774M	40.04M	37.784M
802.11be EHT80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5985MHz	Pass	Inf	80.3M	76.772M	81.4M	76.622M	81.18M	76.597M	81.18M	76.809M
6225MHz	Pass	Inf	81.18M	77.163M	81.18M	77.123M	80.96M	77.172M	81.4M	77.265M
6385MHz	Pass	Inf	81.18M	76.957M	81.84M	77.038M	80.74M	77.12M	81.84M	77.008M
6465MHz	Pass	Inf	80.96M	77.011M	81.62M	77.054M	80.74M	77.032M	80.3M	77.023M
6545MHz	Pass	Inf	80.96M	77.303M	81.18M	77.184M	81.18M	77.214M	80.96M	77.096M
6625MHz	Pass	Inf	80.96M	77.147M	81.4M	77.169M	80.96M	77.103M	81.4M	77.136M
6705MHz	Pass	Inf	81.62M	77.14M	81.18M	77.162M	80.96M	77.203M	80.96M	77.105M
6785MHz	Pass	Inf	81.84M	77.206M	80.74M	77.086M	80.96M	77.175M	81.4M	77.012M
6865MHz	Pass	Inf	82.06M	77.214M	81.18M	76.967M	80.96M	77.196M	80.96M	77.171M
6945MHz	Pass	Inf	80.96M	77.092M	81.18M	77.165M	82.06M	77.228M	81.4M	77.13M
7025MHz	Pass	Inf	80.3M	77.046M	80.74M	77.044M	80.52M	77.088M	81.4M	77.103M
802.11be EHT160_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
6025MHz	Pass	Inf	162.36M	155.05M	162.36M	155.254M	162.36M	155.051M	163.68M	155.695M
6185MHz	Pass	Inf	162.36M	156.485M	163.68M	156.5M	162.36M	156.598M	162.36M	156.449M
6345MHz	Pass	Inf	162.36M	156.477M	162.8M	155.803M	163.68M	156.212M	163.68M	156.227M
6505MHz	Pass	Inf	162.36M	156.338M	162.36M	156.447M	163.68M	156.549M	163.24M	156.331M
6665MHz	Pass	Inf	162.36M	156.315M	163.68M	156.078M	162.8M	156.233M	163.68M	156.112M
6825MHz	Pass	Inf	162.8M	156.292M	163.24M	156.3M	162.8M	156.151M	163.68M	156.406M
6985MHz	Pass	Inf	164.12M	156.188M	163.24M	156.13M	163.68M	156.44M	163.68M	156.077M
802.11be EHT320_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
6105MHz	Pass	Inf	324.72M	312.626M	323.84M	312.898M	323.84M	312.354M	323.84M	313.484M
6265MHz	Pass	Inf	323.84M	315.189M	324.72M	315.408M	324.72M	315.075M	324.72M	315.047M
6585MHz	Pass	Inf	326.48M	314.569M	324.72M	314.585M	325.6M	314.473M	323.84M	314.971M
6745MHz	Pass	Inf	326.48M	314.829M	324.72M	314.397M	324.72M	314.083M	325.6M	314.17M
6905MHz	Pass	Inf	325.6M	315.61M	325.6M	315.686M	325.6M	315.914M	326.48M	316.284M

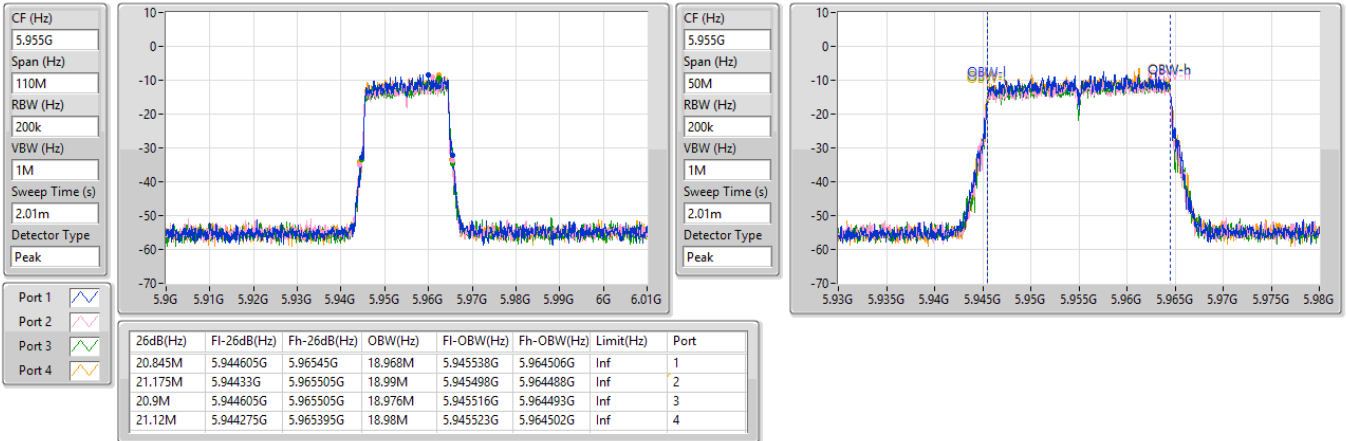
Port X-N dB = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band
Port X-OBW = Port X 99% occupied bandwidth

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

EBW

5955MHz

22/10/2024

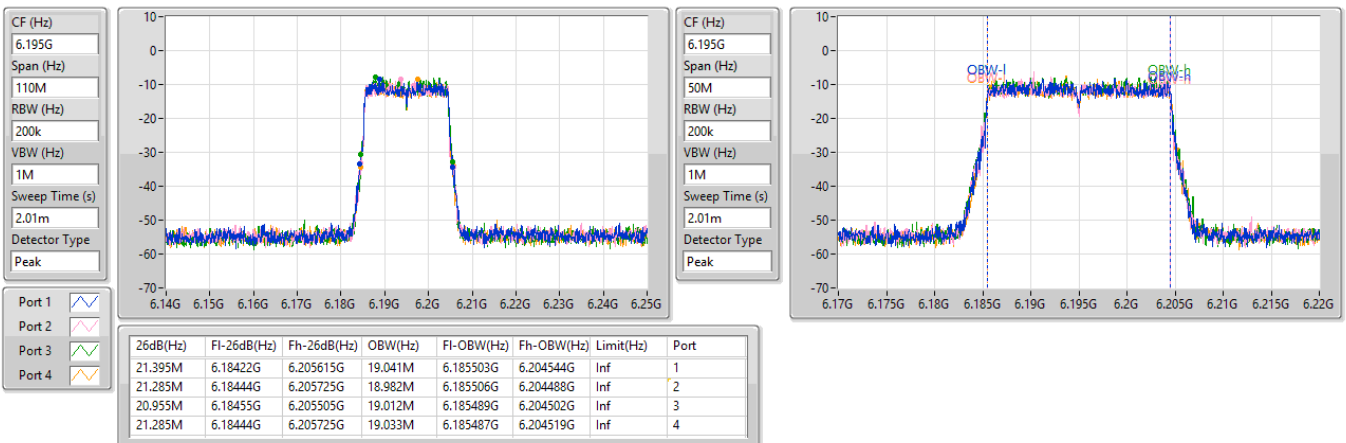


5.925-6.425GHz_802.11be EHT20_Nss1,(MCS0)_4TX

EBW

6195MHz

22/10/2024

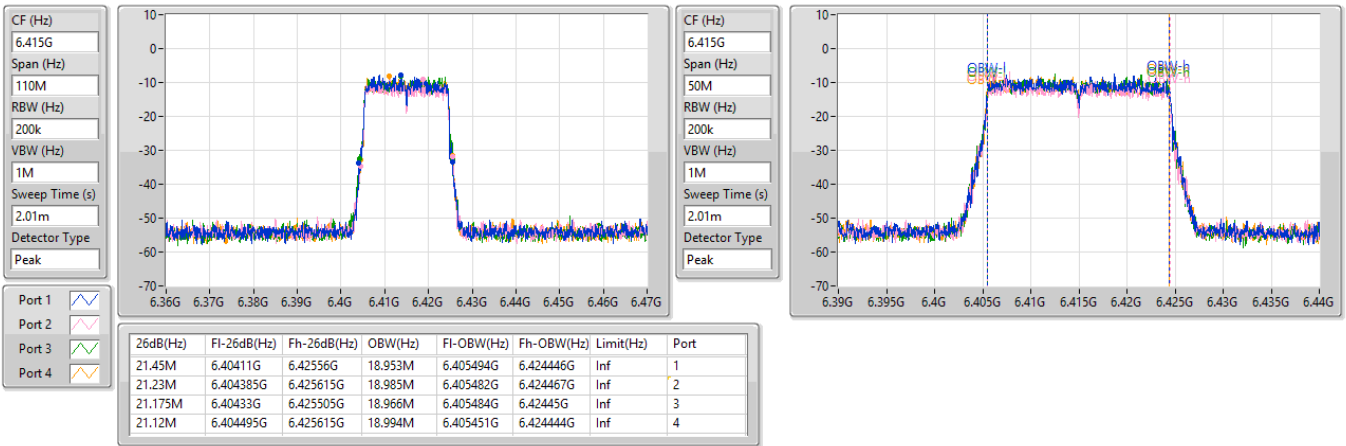


5.925-6.425GHz_802.11be EHT20_Nss1,(MCS0)_4TX

EBW

6415MHz

22/10/2024

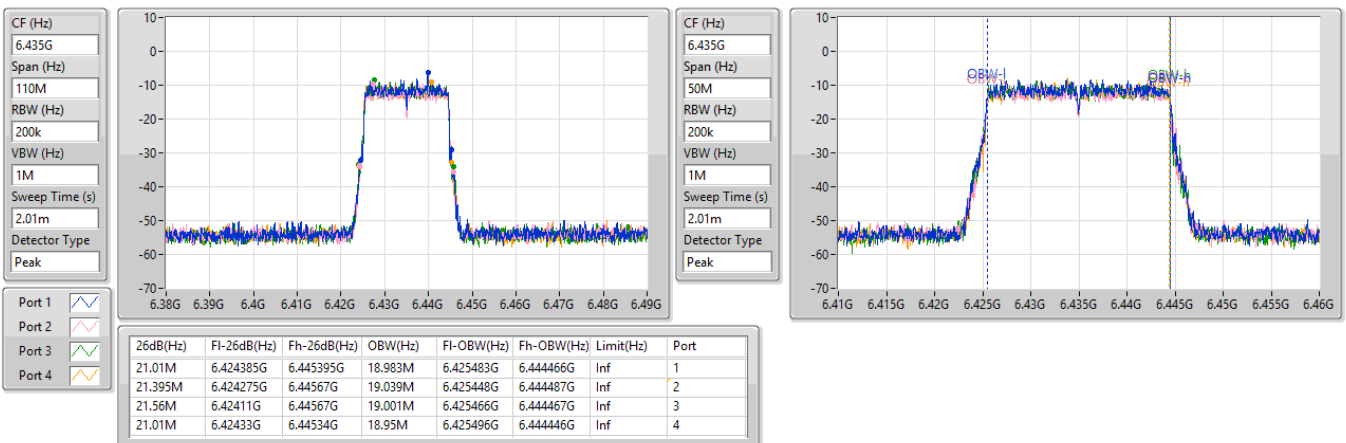


6.425-6.525GHz_802.11be EHT20_Nss1,(MCS0)_4TX

EBW

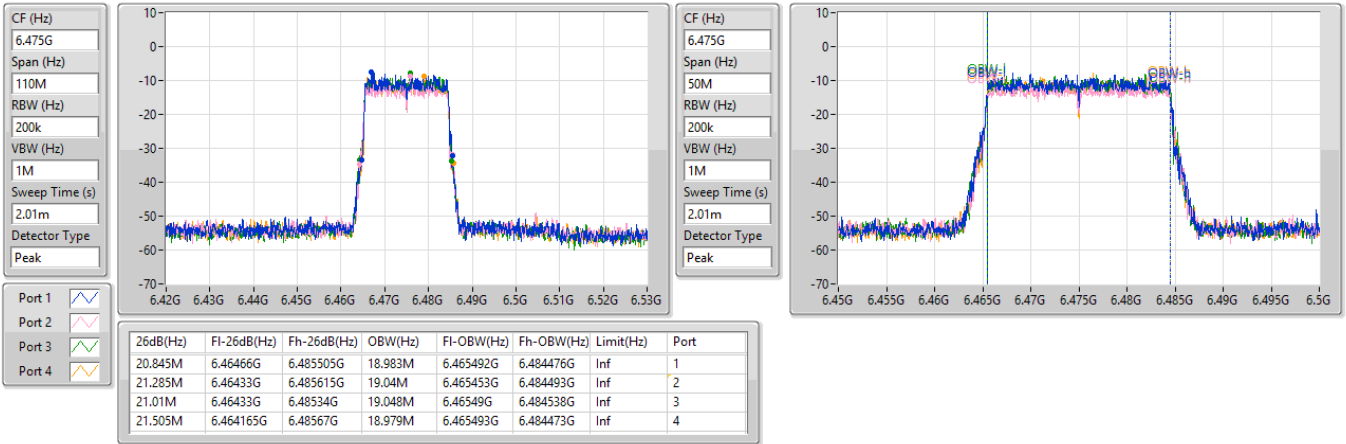
6435MHz

23/10/2024

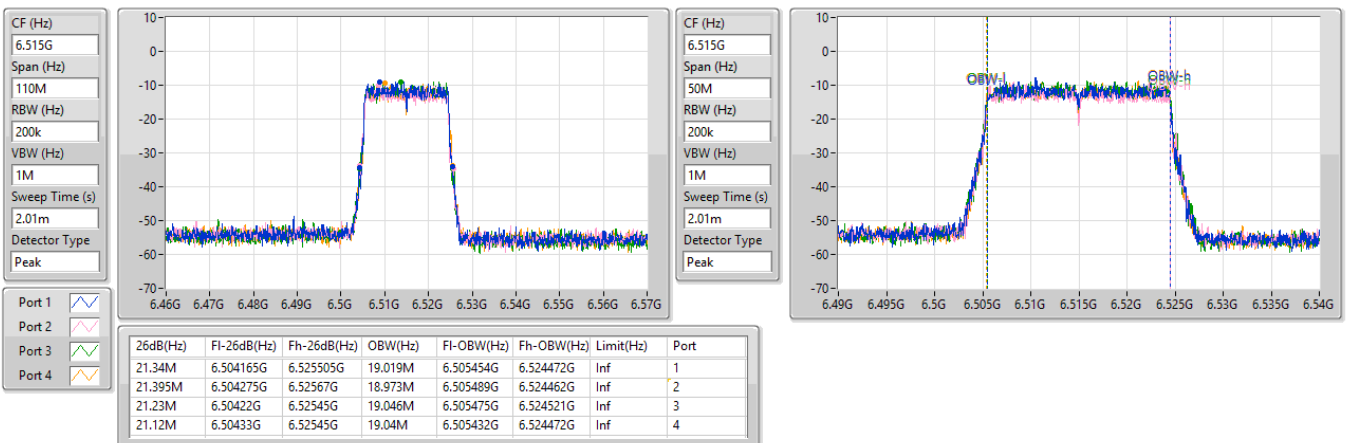


6.425-6.525GHz_802.11be EHT20_Nss1,(MCS0)_4TX
EBW
6475MHz

23/10/2024


6.425-6.525GHz_802.11be EHT20_Nss1,(MCS0)_4TX
EBW
6515MHz

23/10/2024

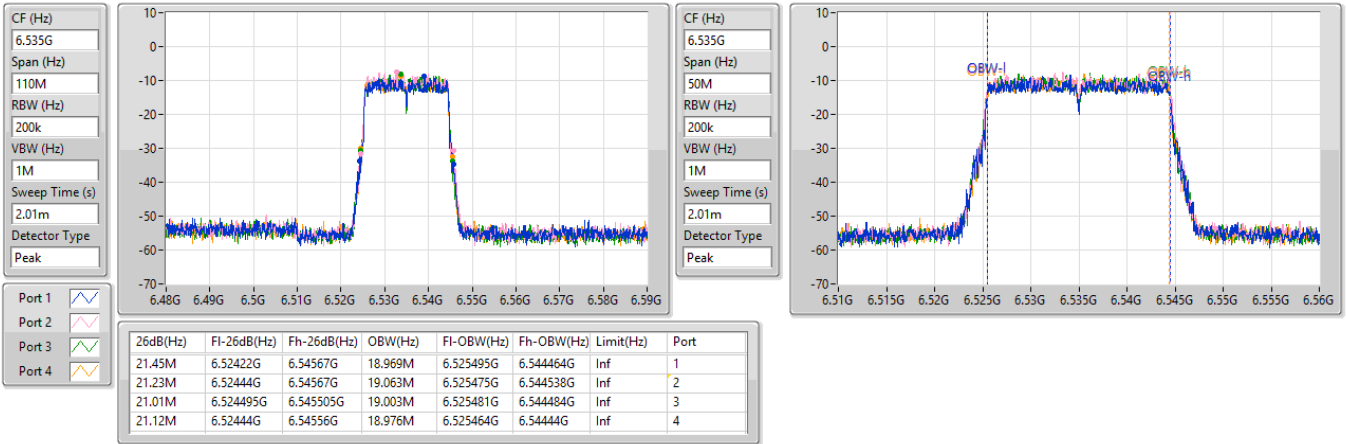


6.525-6.875GHz_802.11be EHT20_Nss1,(MCS0)_4TX

EBW

6535MHz

23/10/2024

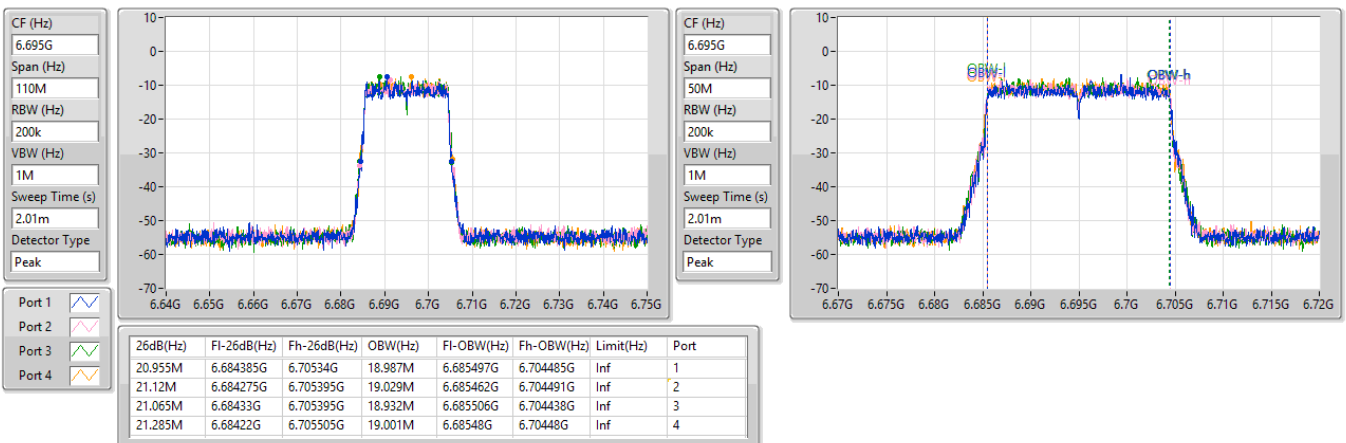


6.525-6.875GHz_802.11be EHT20_Nss1,(MCS0)_4TX

EBW

6695MHz

23/10/2024

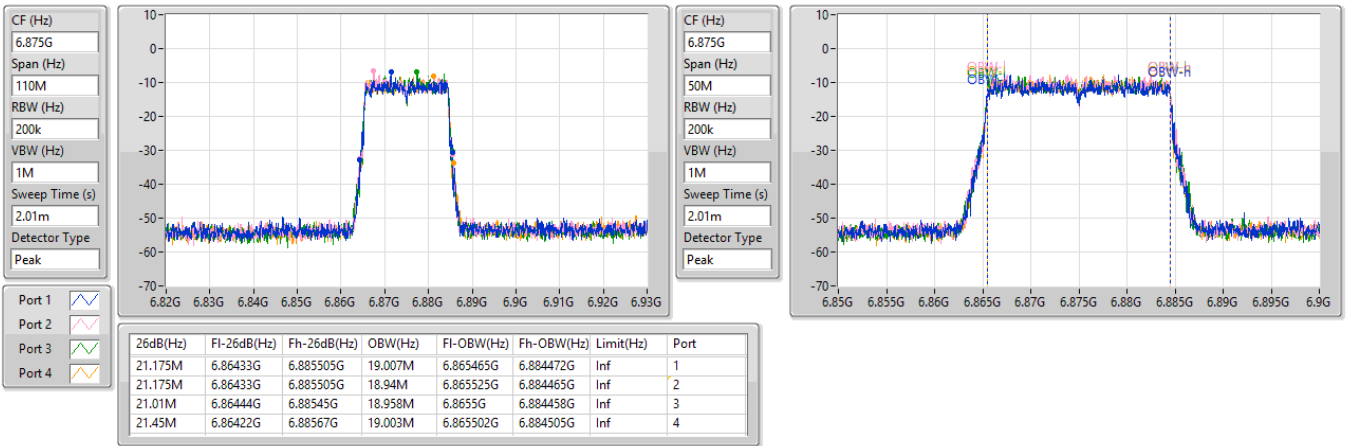


6.525-6.875GHz_802.11be EHT20_Nss1,(MCS0)_4TX

EBW

6875MHz

23/10/2024

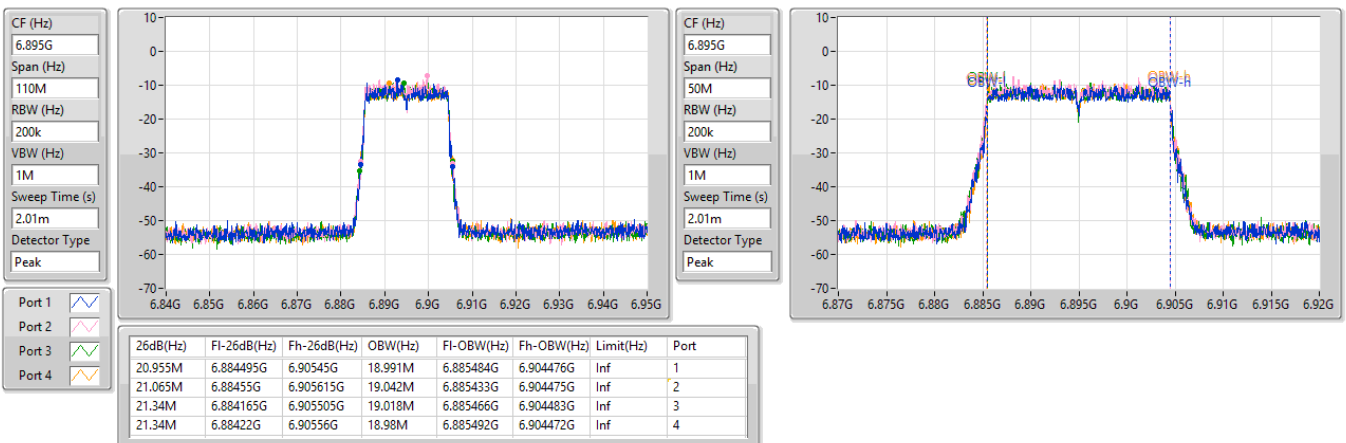


6.875-7.125GHz_802.11be EHT20_Nss1,(MCS0)_4TX

EBW

6895MHz

23/10/2024

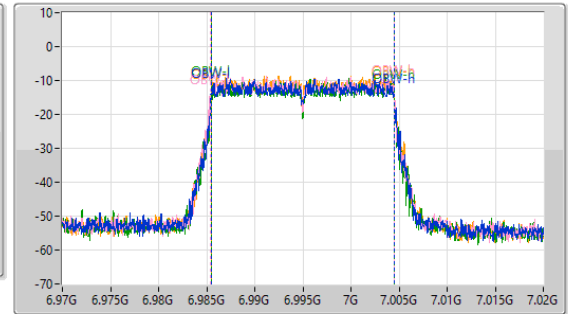
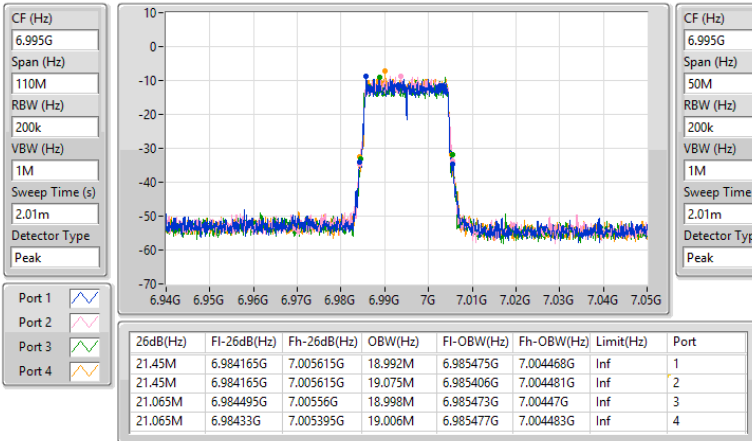


6.875-7.125GHz_802.11be EHT20_Nss1,(MCS0)_4TX

EBW

6995MHz

23/10/2024

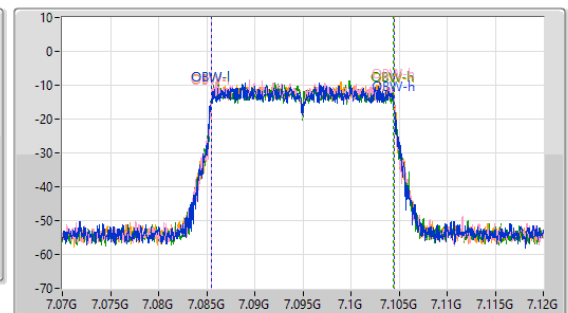
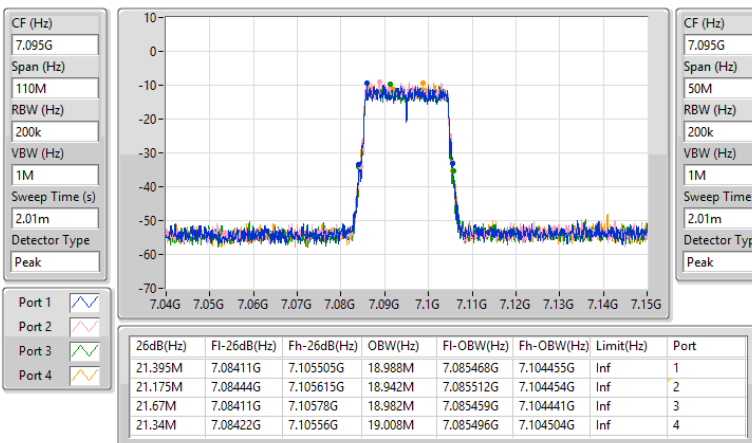


6.875-7.125GHz_802.11be EHT20_Nss1,(MCS0)_4TX

EBW

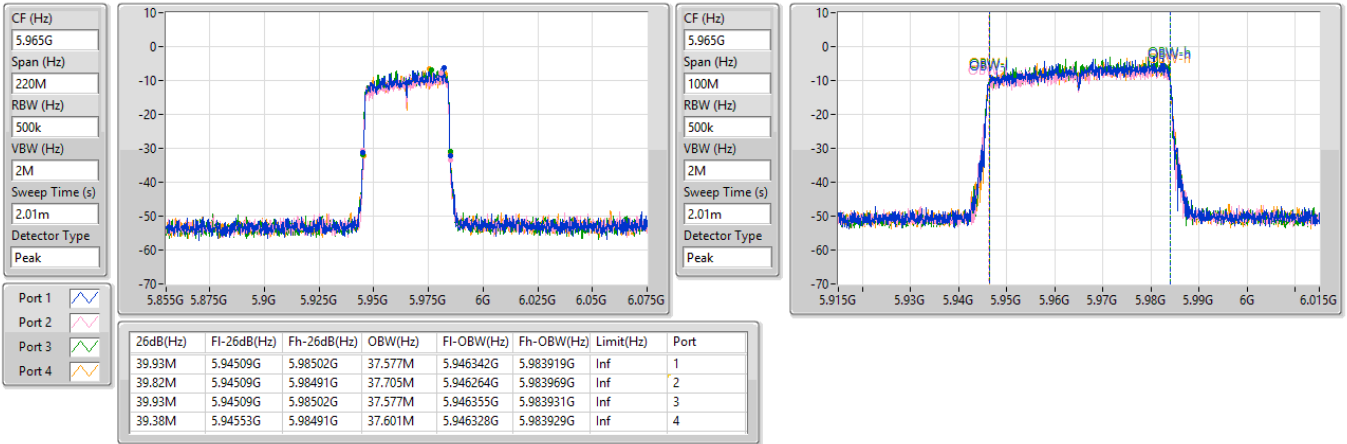
7095MHz

23/10/2024

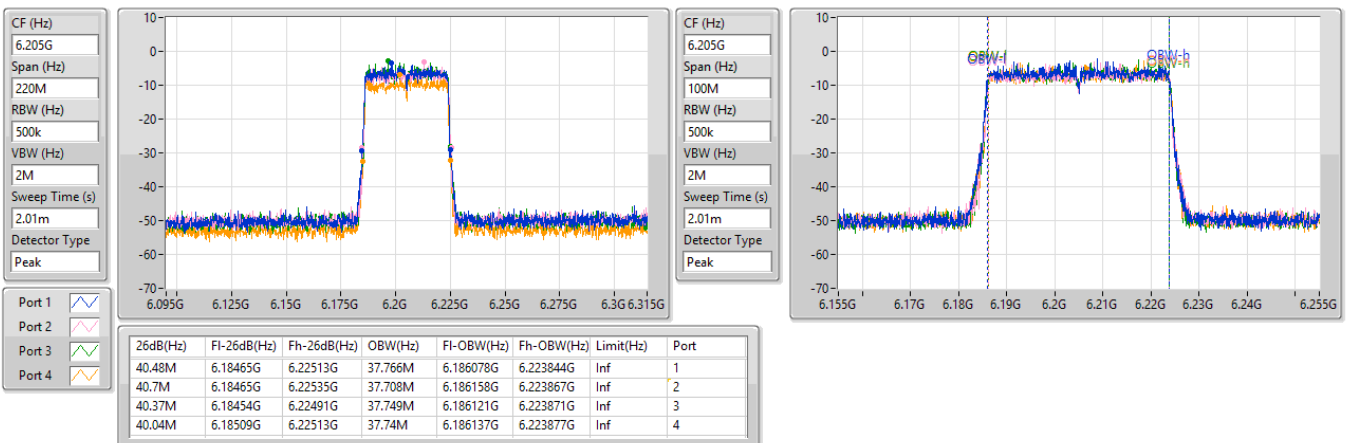


5.925-6.425GHz_802.11be EHT40_Nss1,(MCS0)_4TX
EBW
5965MHz

22/10/2024


5.925-6.425GHz_802.11be EHT40_Nss1,(MCS0)_4TX
EBW
6205MHz

22/10/2024

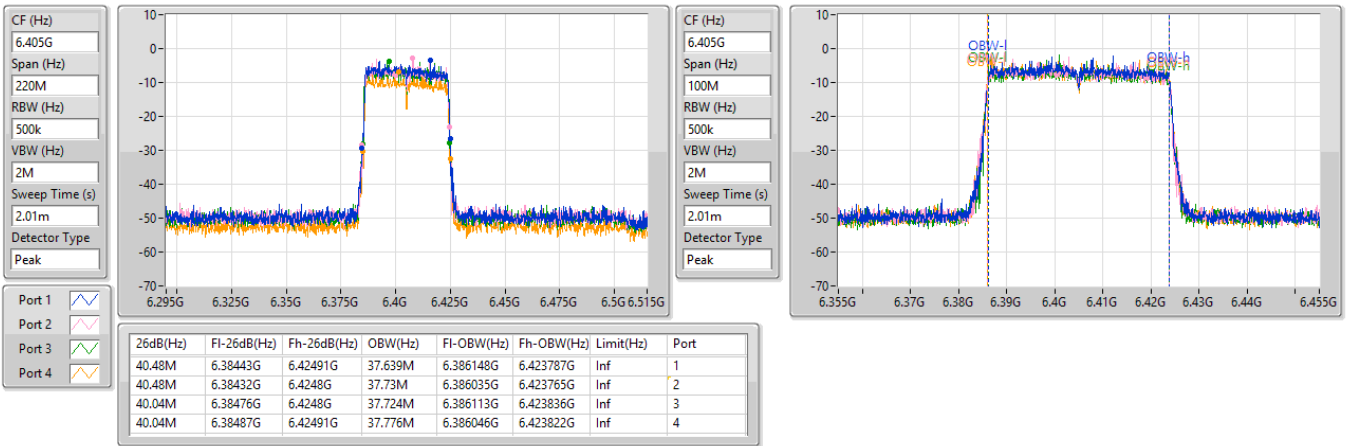


5.925-6.425GHz_802.11be EHT40_Nss1,(MCS0)_4TX

EBW

6405MHz

22/10/2024

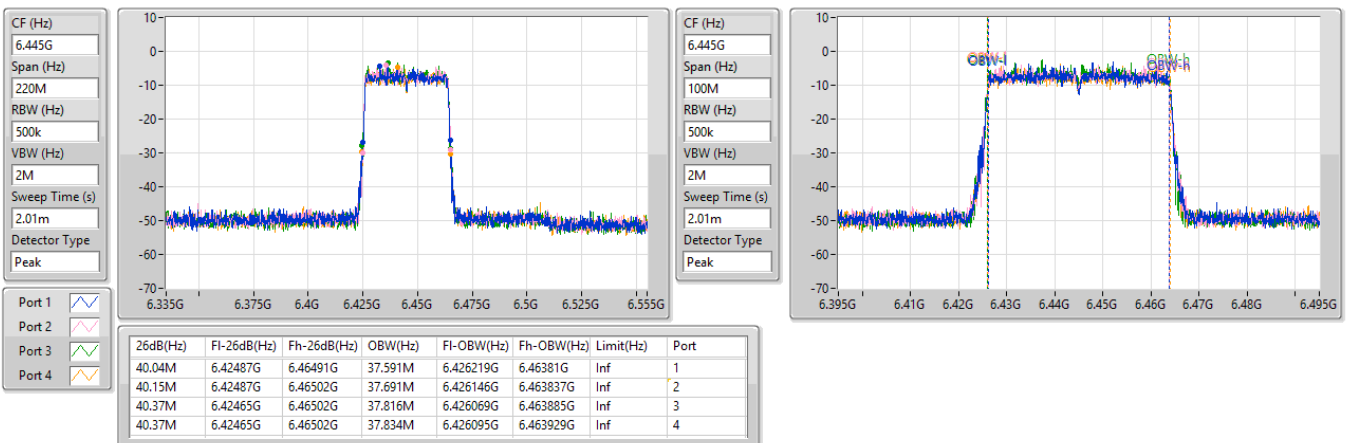


6.425-6.525GHz_802.11be EHT40_Nss1,(MCS0)_4TX

EBW

6445MHz

23/10/2024

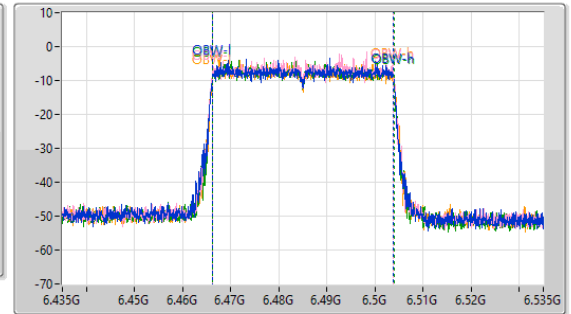
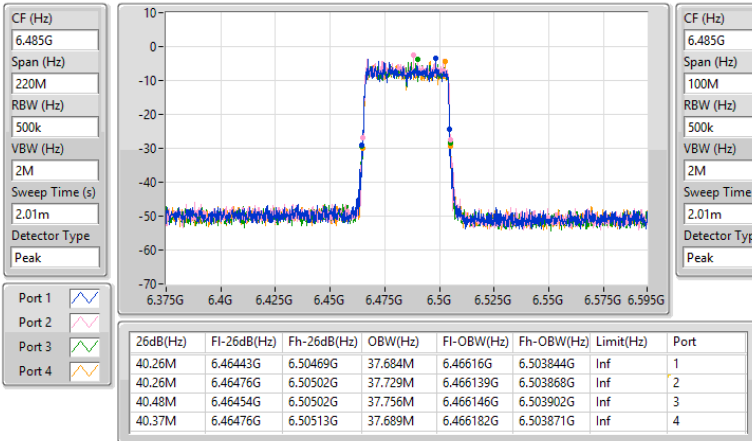


6.425-6.525GHz_802.11be EHT40_Nss1,(MCS0)_4TX

EBW

6485MHz

23/10/2024

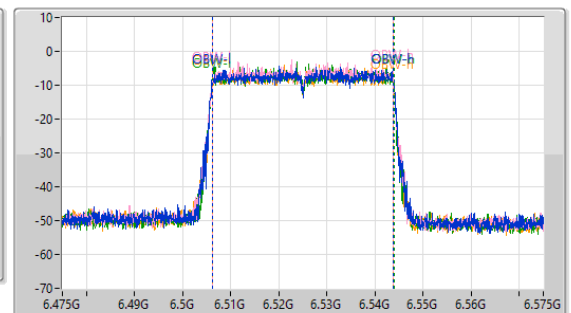
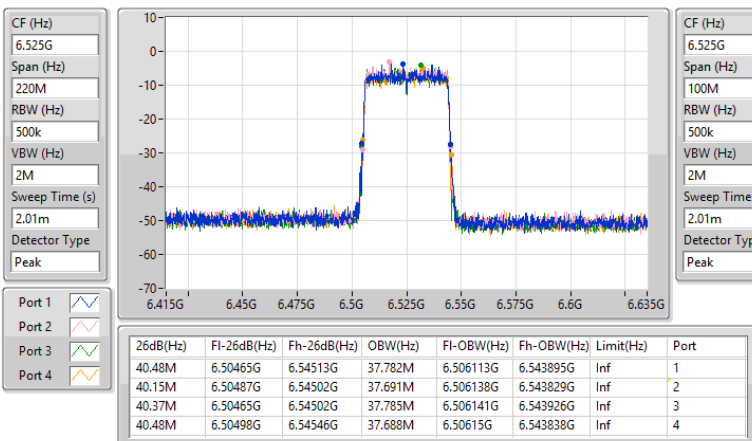


6.425-6.525GHz_802.11be EHT40_Nss1,(MCS0)_4TX

EBW

6525MHz

23/10/2024

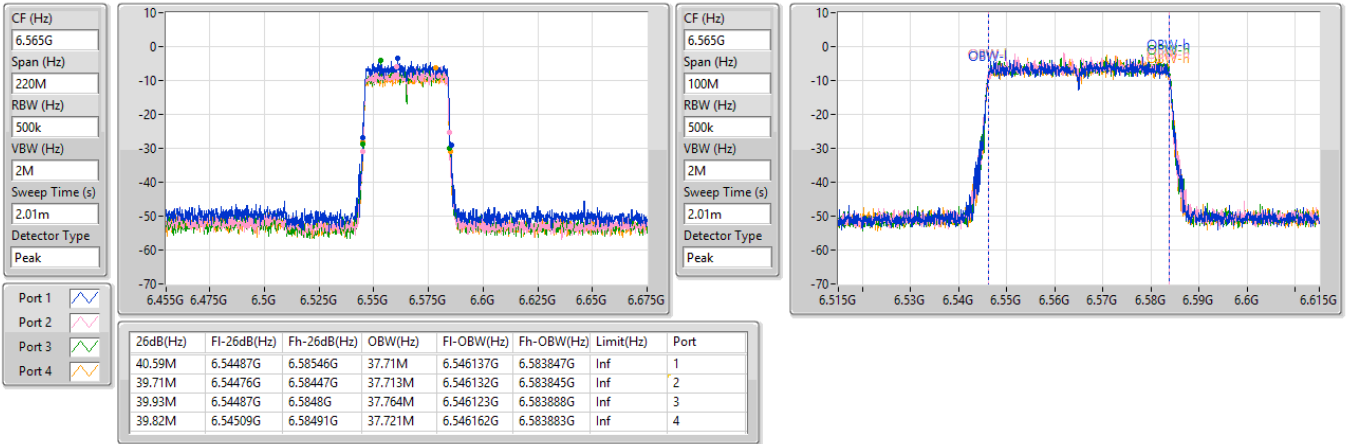


6.525-6.875GHz_802.11be EHT40_Nss1,(MCS0)_4TX

EBW

6565MHz

24/10/2024

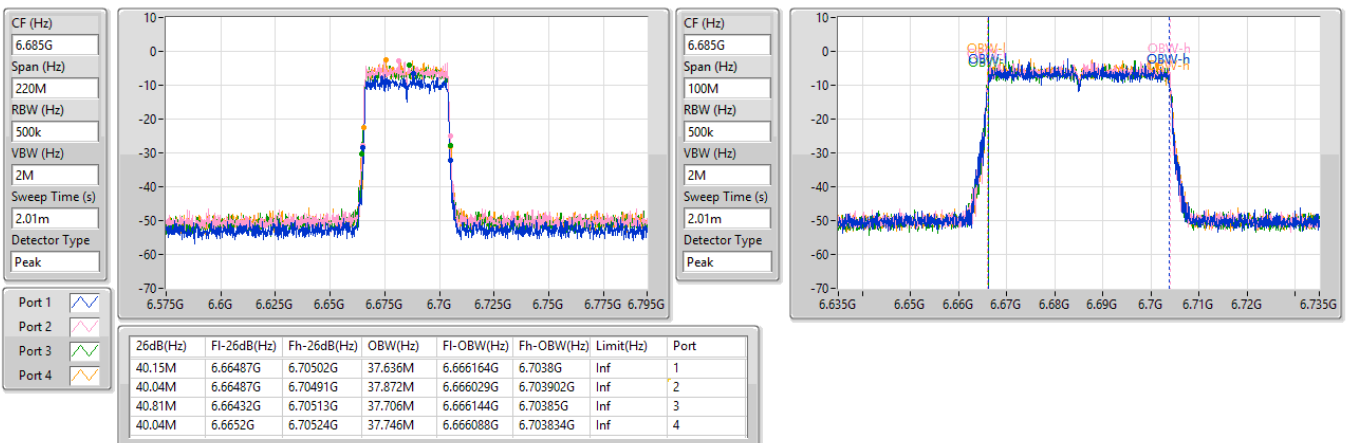


6.525-6.875GHz_802.11be EHT40_Nss1,(MCS0)_4TX

EBW

6685MHz

24/10/2024

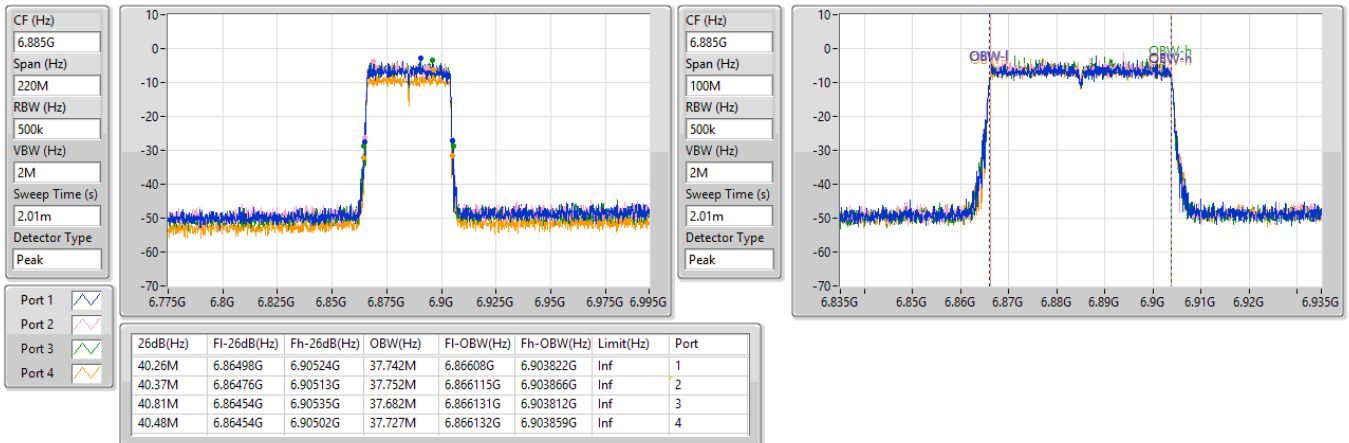


6.525-6.875GHz_802.11be EHT40_Nss1,(MCS0)_4TX

EBW

6885MHz

24/10/2024

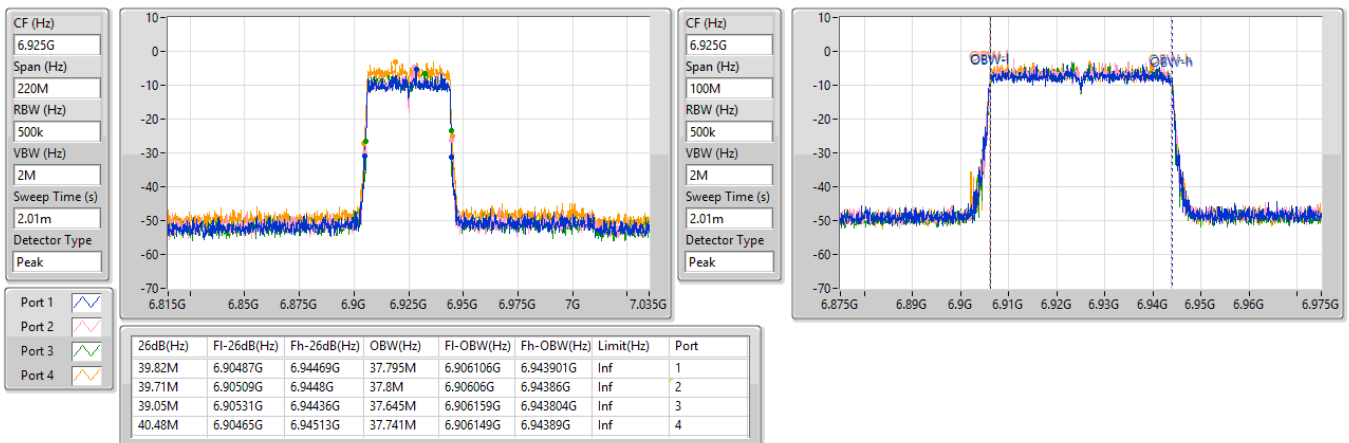


6.875-7.125GHz_802.11be EHT40_Nss1,(MCS0)_4TX

EBW

6925MHz

23/10/2024

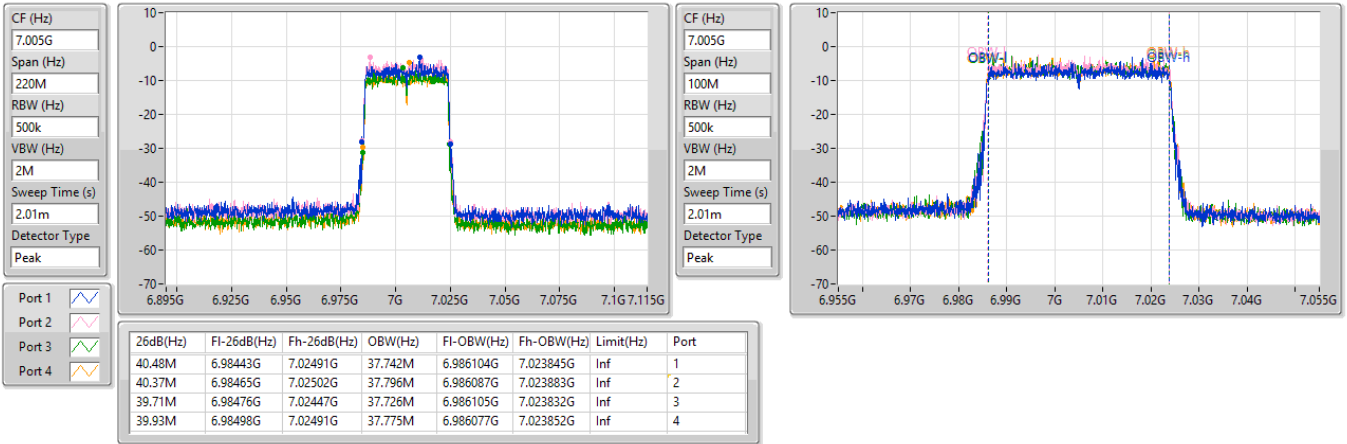


6.875-7.125GHz_802.11be EHT40_Nss1,(MCS0)_4TX

EBW

7005MHz

23/10/2024

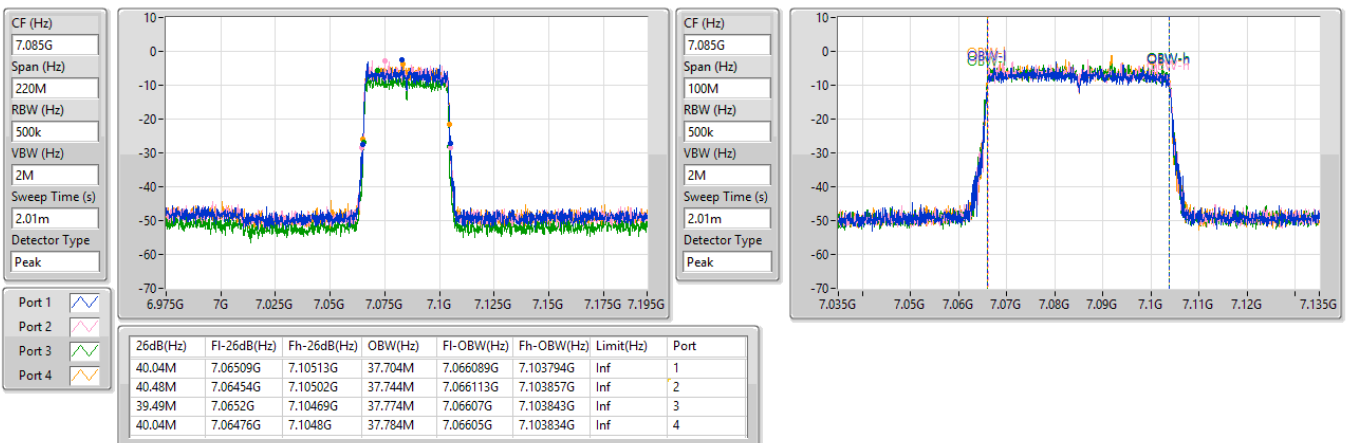


6.875-7.125GHz_802.11be EHT40_Nss1,(MCS0)_4TX

EBW

7085MHz

23/10/2024

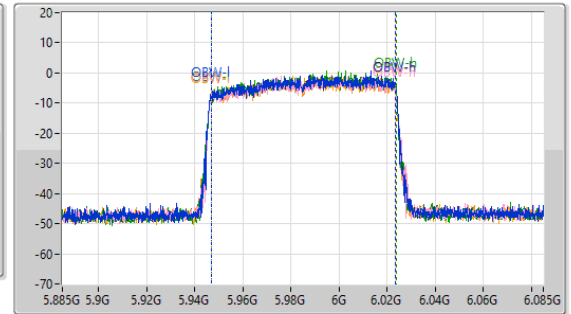
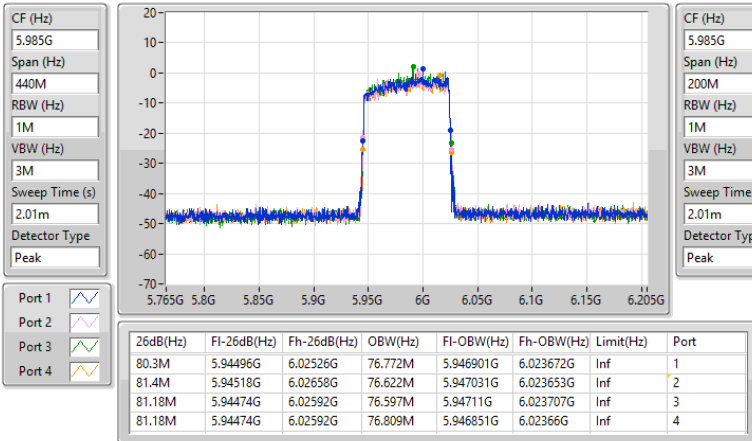


5.925-6.425GHz_802.11be EHT80_Nss1,(MCS0)_4TX

EBW

5985MHz

22/10/2024

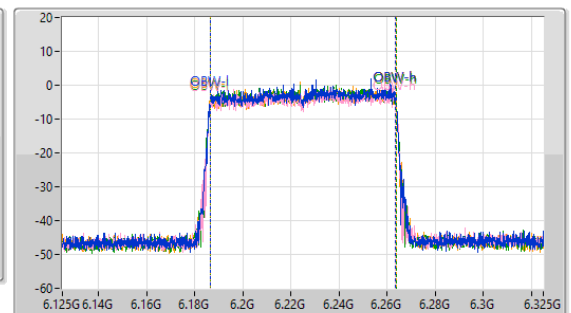
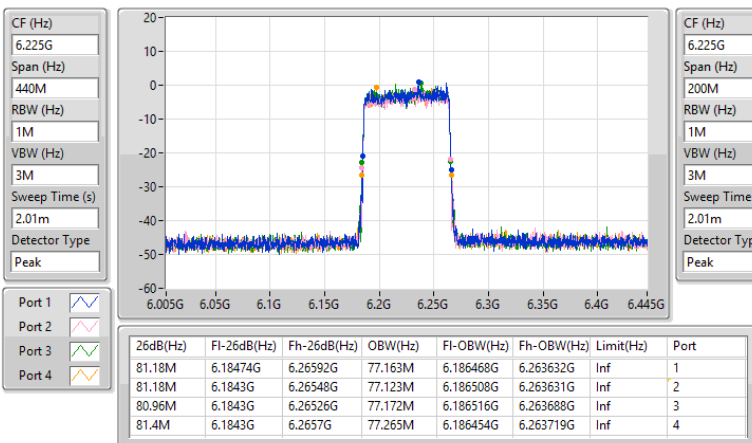


5.925-6.425GHz_802.11be EHT80_Nss1,(MCS0)_4TX

EBW

6225MHz

22/10/2024

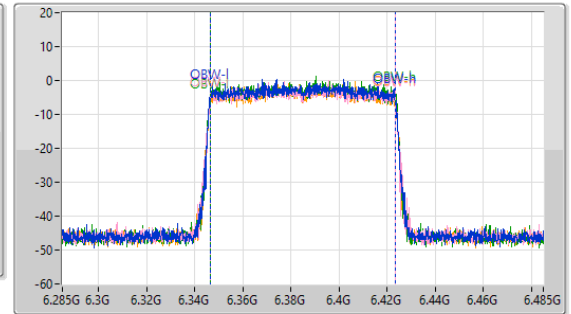
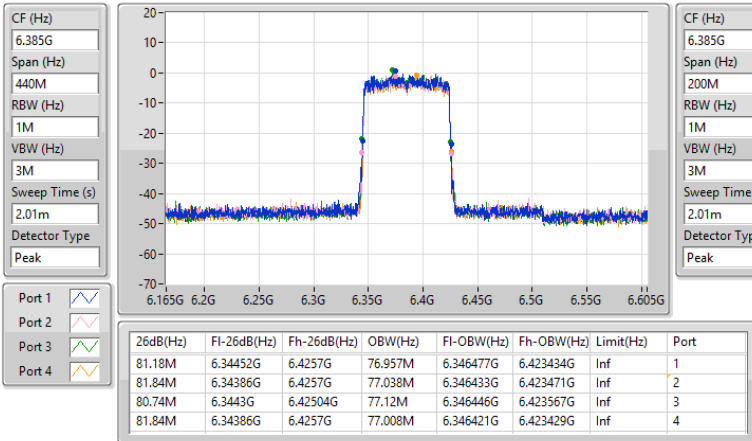


5.925-6.425GHz_802.11be EHT80_Nss1,(MCS0)_4TX

EBW

6385MHz

22/10/2024

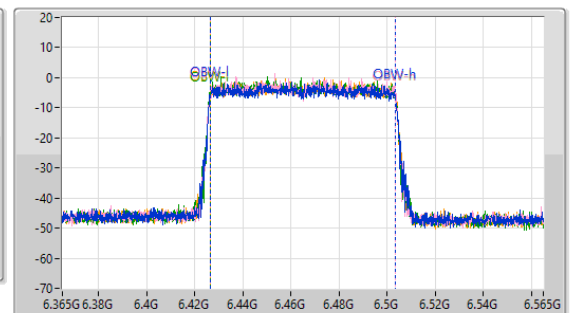
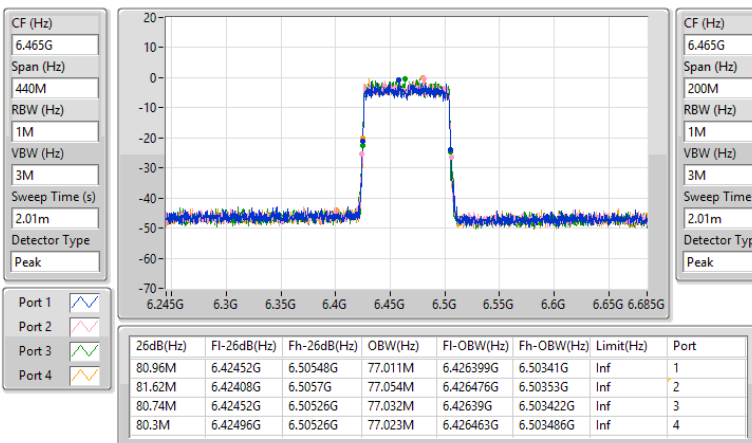


6.425-6.525GHz_802.11be EHT80_Nss1,(MCS0)_4TX

EBW

6465MHz

24/10/2024

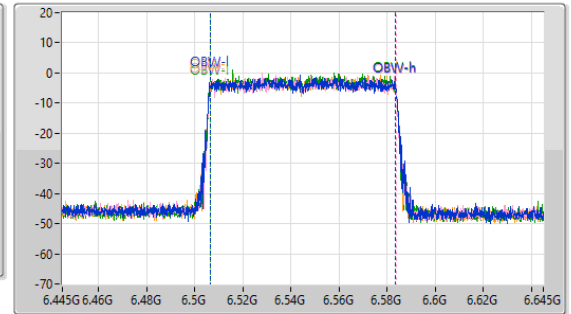
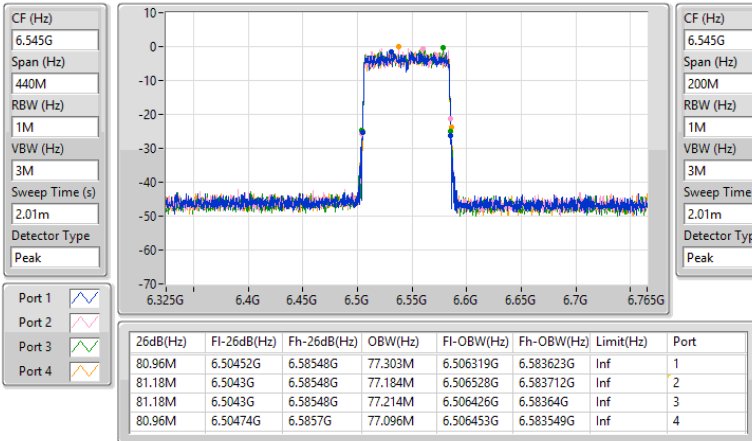


6.425-6.525GHz_802.11be EHT80_Nss1,(MCS0)_4TX

EBW

6545MHz

24/10/2024

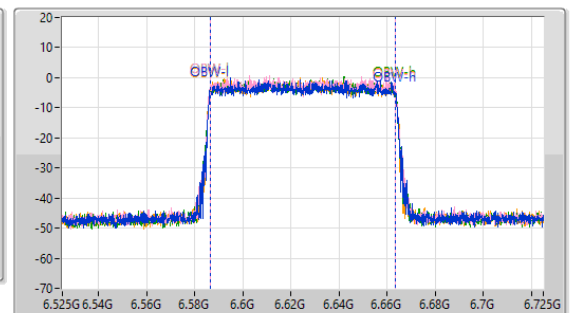
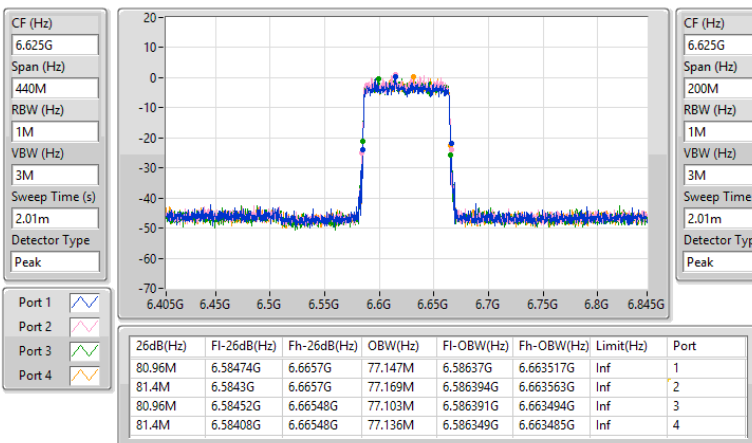


6.525-6.875GHz_802.11be EHT80_Nss1,(MCS0)_4TX

EBW

6625MHz

24/10/2024

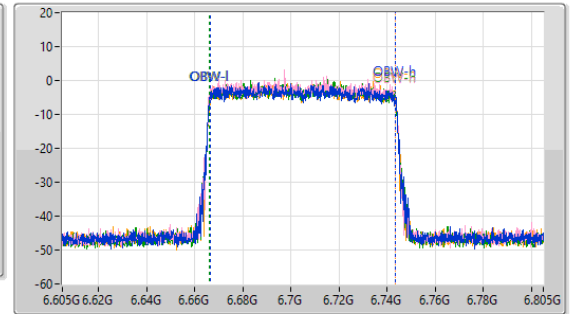
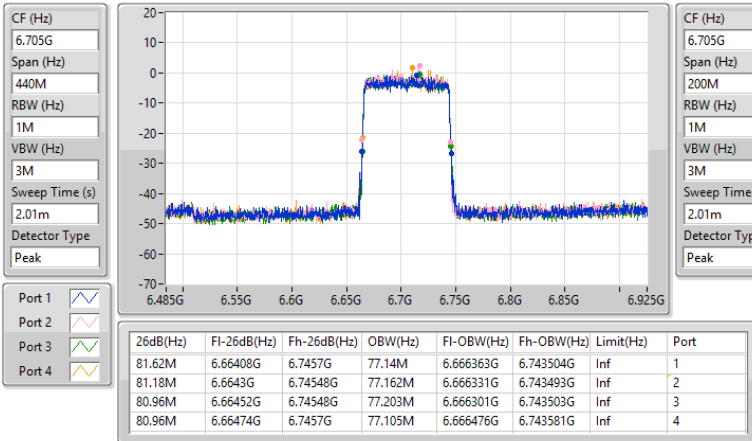


6.525-6.875GHz_802.11be EHT80_Nss1,(MCS0)_4TX

EBW

6705MHz

24/10/2024

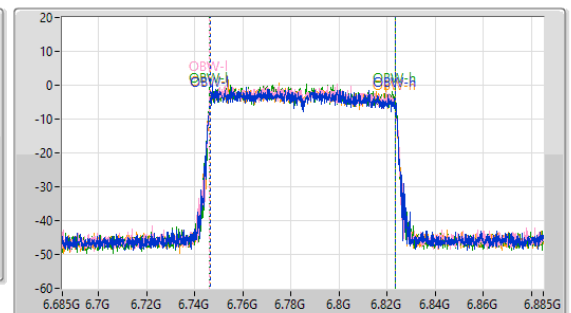
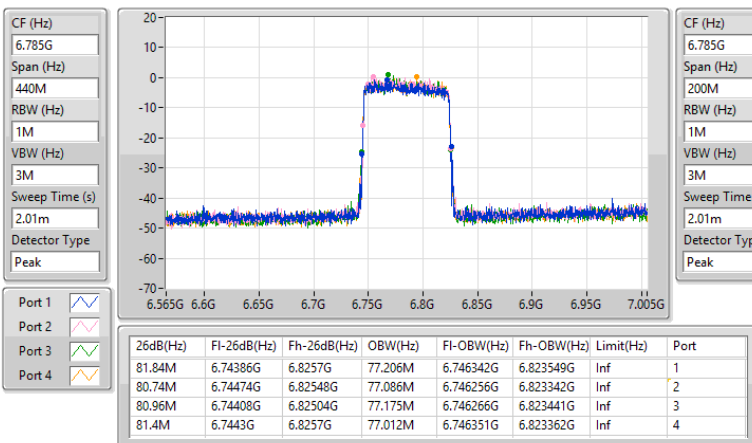


6.525-6.875GHz_802.11be EHT80_Nss1,(MCS0)_4TX

EBW

6785MHz

24/10/2024

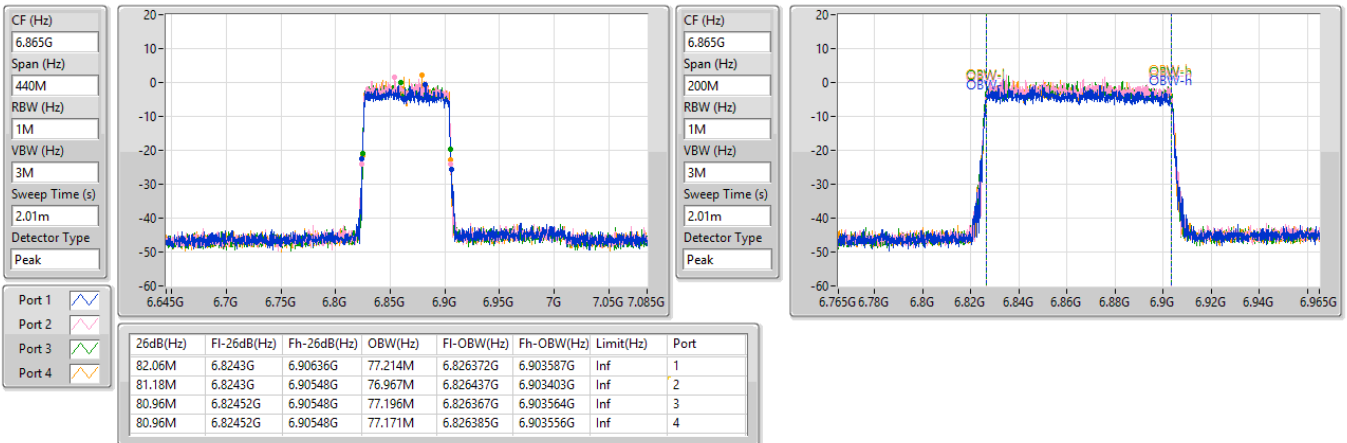


6.525-6.875GHz_802.11be EHT80_Nss1,(MCS0)_4TX

EBW

6865MHz

24/10/2024

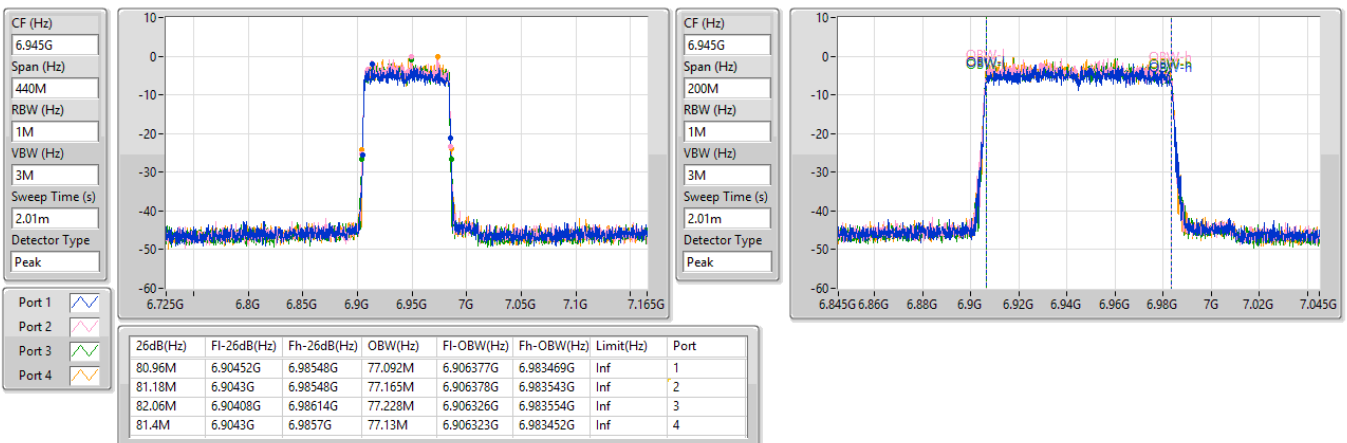


6.875-7.125GHz_802.11be EHT80_Nss1,(MCS0)_4TX

EBW

6945MHz

24/10/2024

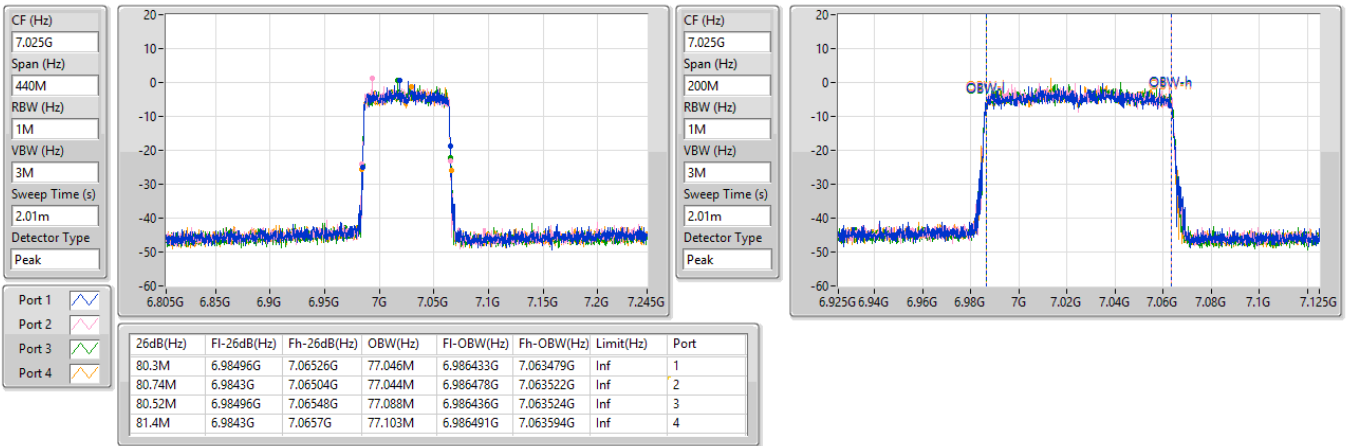


6.875-7.125GHz_802.11be EHT80_Nss1,(MCS0)_4TX

EBW

7025MHz

24/10/2024

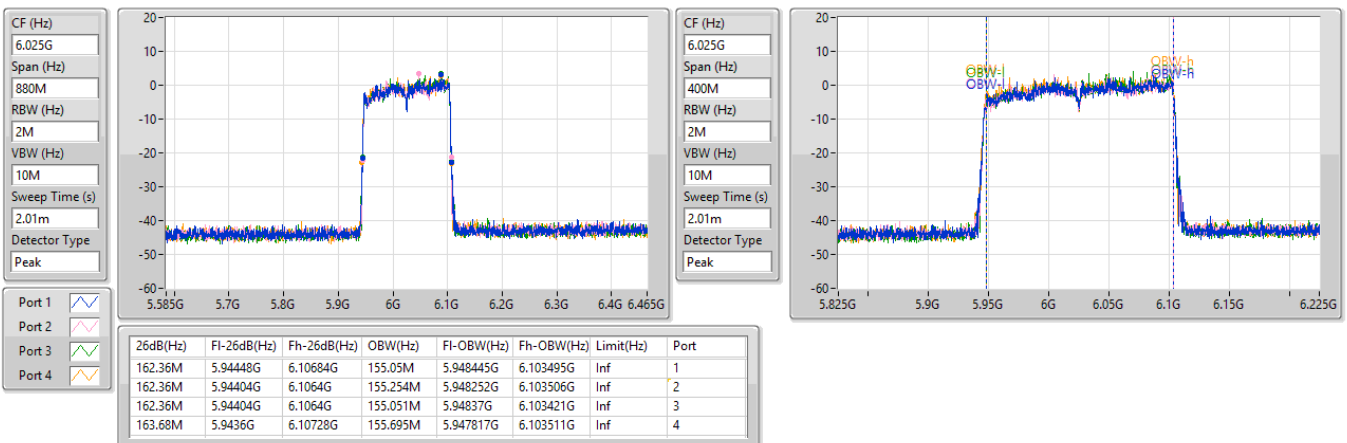


5.925-6.425GHz_802.11be EHT160_Nss1,(MCS0)_4TX

EBW

6025MHz

22/10/2024

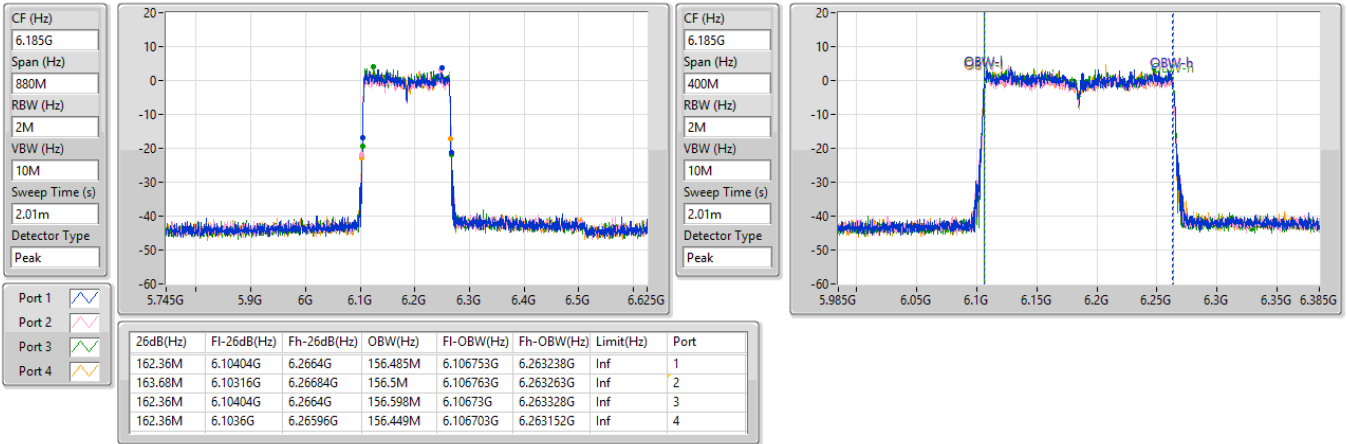


5.925-6.425GHz_802.11be EHT160_Nss1,(MCS0)_4TX

EBW

6185MHz

22/10/2024

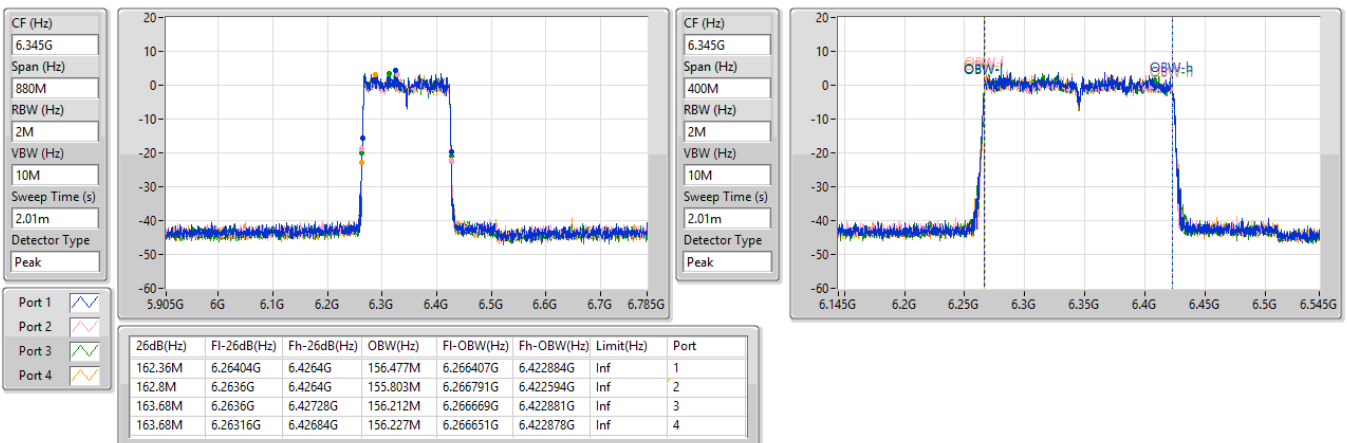


5.925-6.425GHz_802.11be EHT160_Nss1,(MCS0)_4TX

EBW

6345MHz

22/10/2024

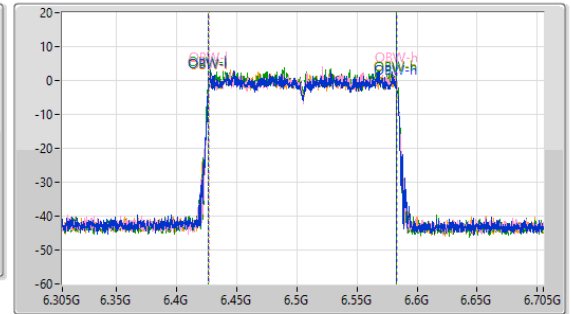
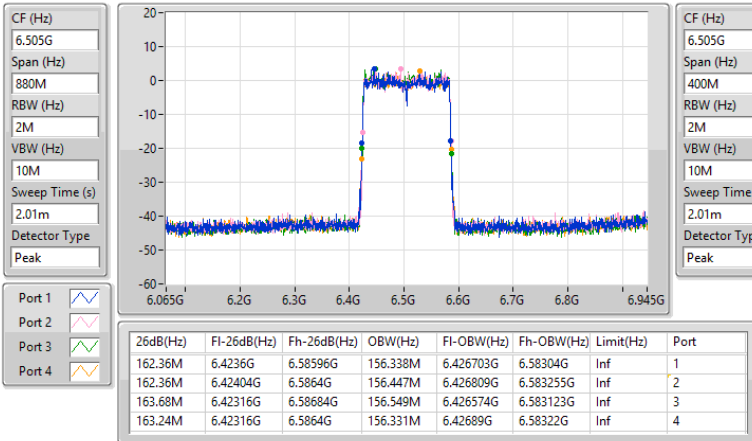


6.425-6.525GHz_802.11be EHT160_Nss1,(MCS0)_4TX

EBW

6505MHz

24/10/2024

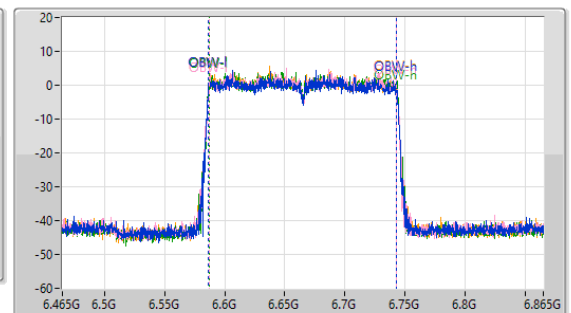
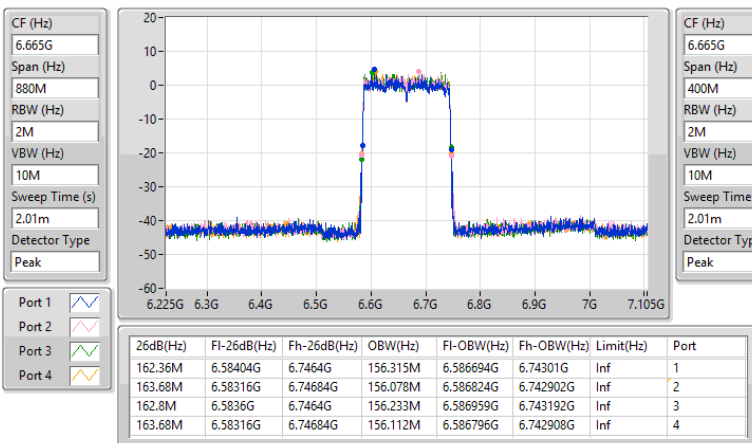


6.525-6.875GHz_802.11be EHT160_Nss1,(MCS0)_4TX

EBW

6665MHz

24/10/2024

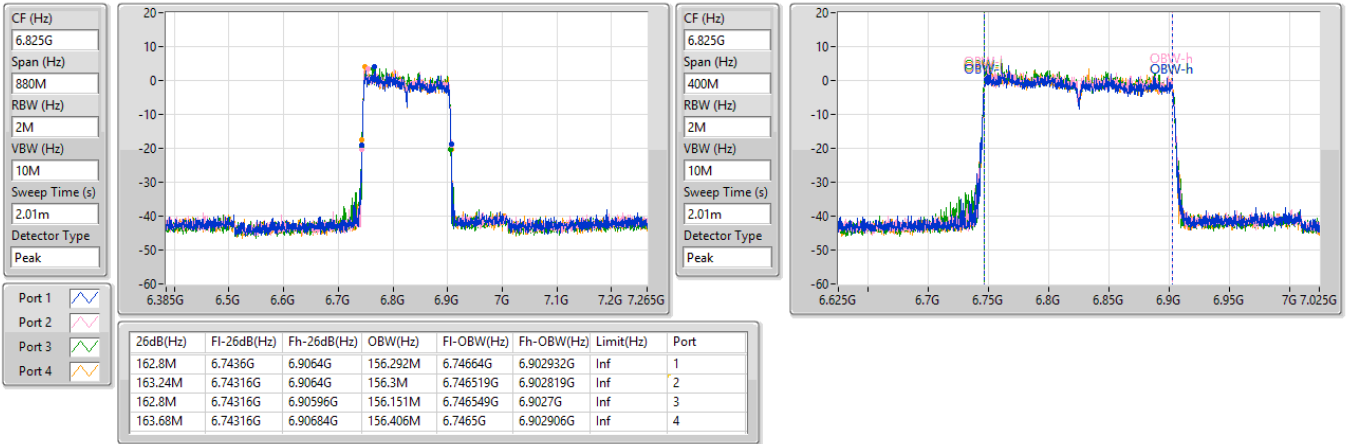


6.525-6.875GHz_802.11be EHT160_Nss1,(MCS0)_4TX

EBW

6825MHz

24/10/2024

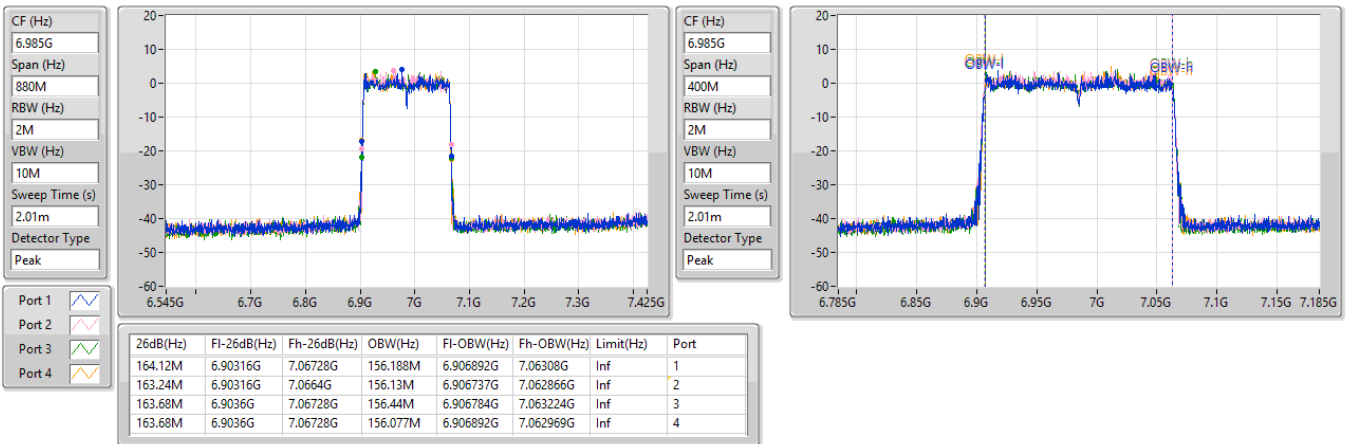


6.875-7.125GHz_802.11be EHT160_Nss1,(MCS0)_4TX

EBW

6985MHz

23/10/2024

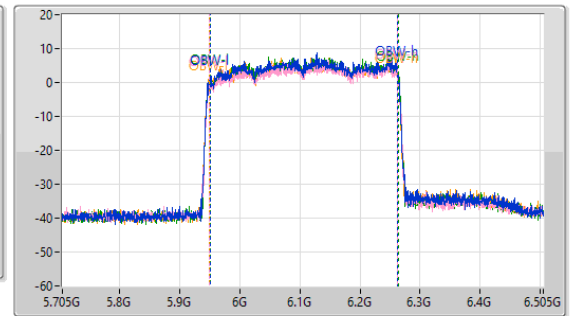
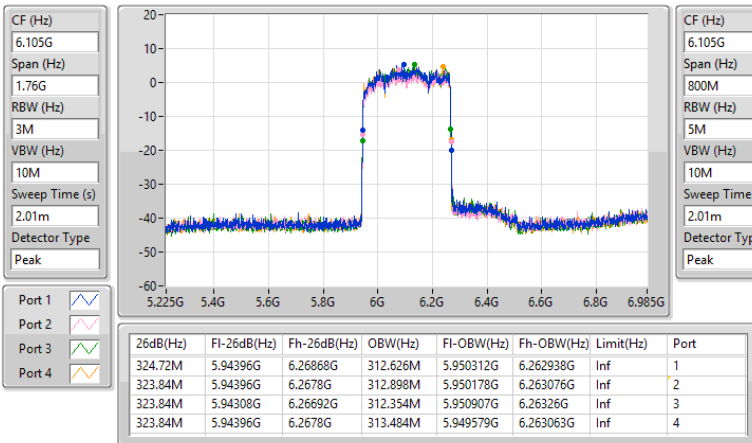


5.925-6.425GHz_802.11be EHT320_Nss1,(MCS0)_4TX

EBW

6105MHz

22/10/2024

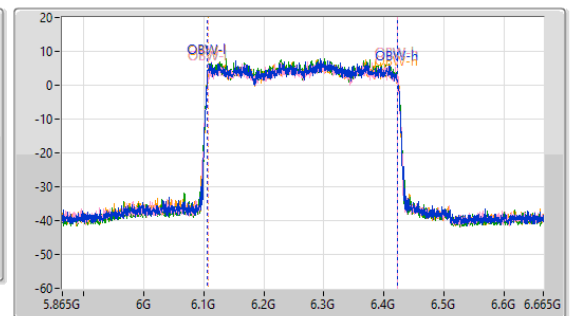
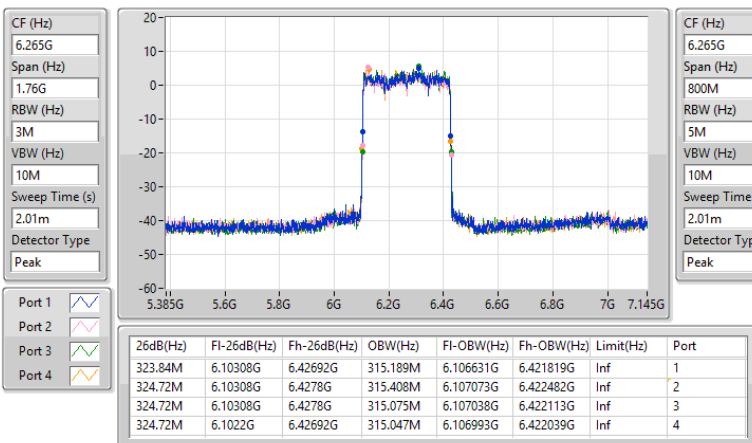


5.925-6.425GHz_802.11be EHT320_Nss1,(MCS0)_4TX

EBW

6265MHz

22/10/2024

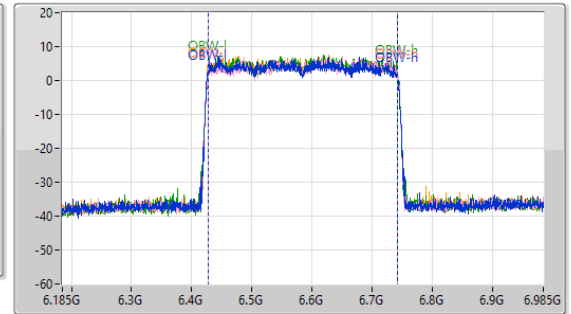
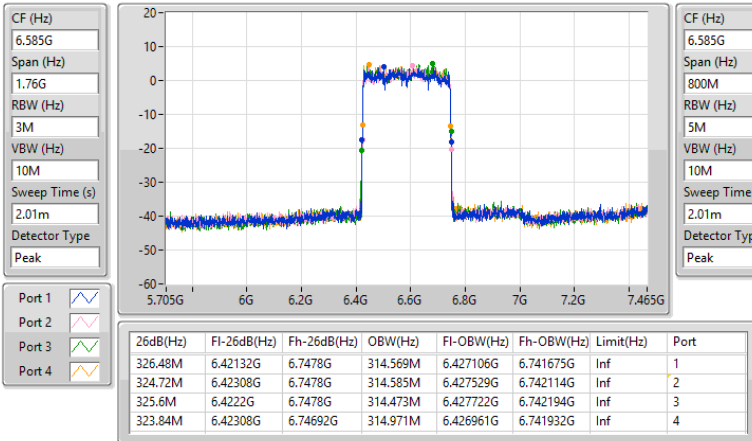


6.425-6.525GHz_802.11be EHT320_Nss1,(MCS0)_4TX

EBW

6585MHz

24/10/2024

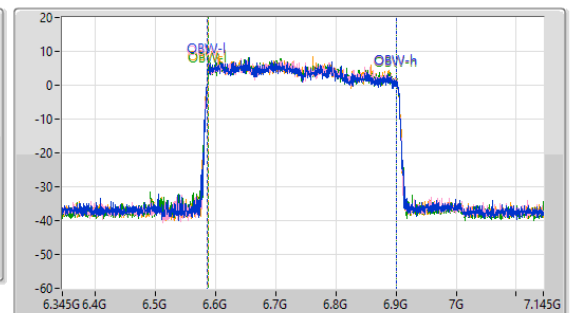
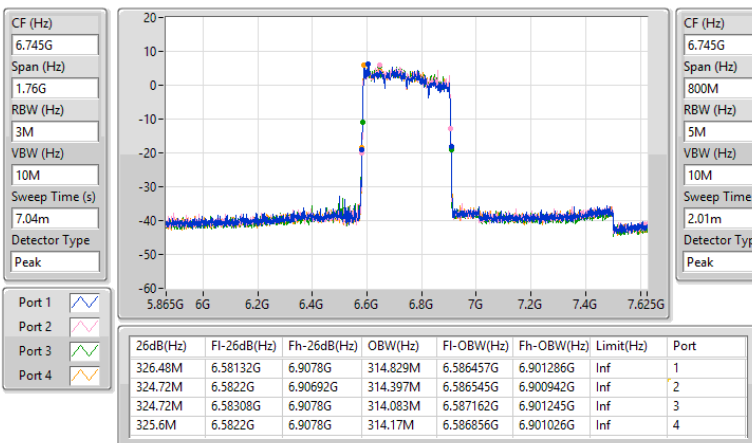


6.525-6.875GHz_802.11be EHT320_Nss1,(MCS0)_4TX

EBW

6745MHz

24/10/2024

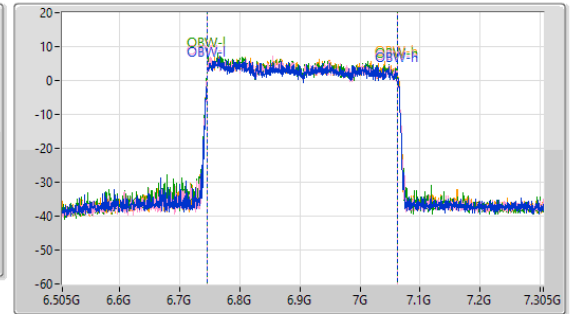
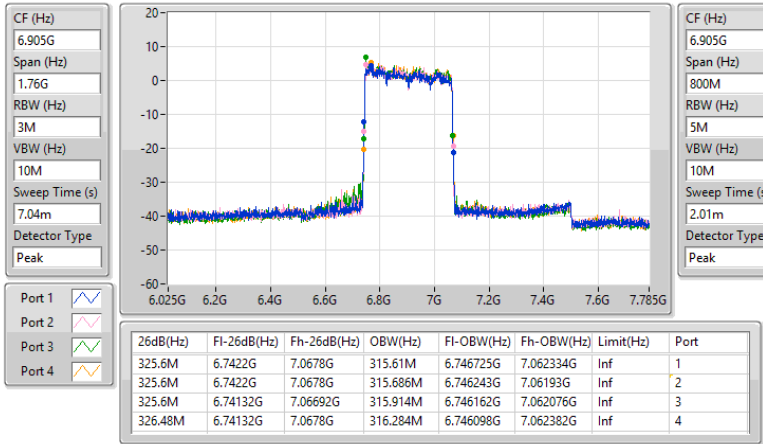


6.525-6.875GHz_802.11be EHT320_Nss1,(MCS0)_4TX

EBW

6905MHz

24/10/2024



Test Mode: Mode 5
Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
6.525-6.875GHz	-	-	-	-	-
802.11be EHT20_Nss1,(MCS0)_4TX	21.56M	19.037M	19M0D1D	21.12M	18.959M
802.11be EHT40_Nss1,(MCS0)_4TX	40.7M	37.784M	37M8D1D	39.6M	37.681M
802.11be EHT80_Nss1,(MCS0)_4TX	82.5M	77.355M	77M4D1D	80.74M	76.948M
802.11be EHT160_Nss1,(MCS0)_4TX	164.12M	156.63M	157MD1D	161.92M	155.958M
802.11be EHT320_Nss1,(MCS0)_4TX	326.48M	315.737M	316MD1D	323.84M	314.44M
6.875-7.125GHz	-	-	-	-	-
802.11be EHT20_Nss1,(MCS0)_4TX	21.67M	19.13M	19M1D1D	20.9M	18.954M
802.11be EHT40_Nss1,(MCS0)_4TX	40.48M	37.798M	37M8D1D	39.27M	37.673M
802.11be EHT80_Nss1,(MCS0)_4TX	82.28M	77.274M	77M3D1D	80.3M	76.974M
802.11be EHT160_Nss1,(MCS0)_4TX	163.68M	156.39M	156MD1D	162.36M	156.083M

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

Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)	Port 3-N dB (Hz)	Port 3-OBW (Hz)	Port 4-N dB (Hz)	Port 4-OBW (Hz)
802.11be EHT20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
6535MHz	Pass	Inf	21.45M	19.035M	21.23M	18.959M	21.56M	19.023M	21.285M	18.992M
6695MHz	Pass	Inf	21.395M	19.024M	21.12M	19.037M	21.45M	18.999M	21.34M	19.016M
6875MHz	Pass	Inf	21.23M	19.027M	21.395M	19.002M	21.395M	18.976M	21.23M	18.975M
6895MHz	Pass	Inf	21.065M	19.13M	20.9M	19.032M	21.065M	19.045M	21.23M	18.999M
6995MHz	Pass	Inf	21.67M	19.028M	21.175M	18.954M	21.34M	19.064M	21.065M	19.028M
7095MHz	Pass	Inf	20.955M	19.034M	21.23M	19.027M	21.395M	19.004M	21.395M	19.052M
802.11be EHT40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
6565MHz	Pass	Inf	40.37M	37.74M	39.6M	37.681M	39.71M	37.784M	40.15M	37.691M
6685MHz	Pass	Inf	40.26M	37.745M	40.37M	37.683M	40.59M	37.782M	40.7M	37.726M
6885MHz	Pass	Inf	40.04M	37.738M	39.82M	37.704M	39.71M	37.713M	39.71M	37.729M
6925MHz	Pass	Inf	40.37M	37.745M	40.04M	37.689M	40.37M	37.714M	40.26M	37.744M
7005MHz	Pass	Inf	39.71M	37.689M	39.6M	37.733M	39.27M	37.673M	39.38M	37.768M
7085MHz	Pass	Inf	40.48M	37.752M	40.15M	37.736M	40.15M	37.685M	39.38M	37.798M
802.11be EHT80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
6625MHz	Pass	Inf	82.5M	77.08M	81.62M	77.183M	80.96M	77.084M	81.18M	76.96M
6705MHz	Pass	Inf	82.06M	77.089M	81.18M	77.031M	80.74M	77.068M	80.96M	77.214M
6785MHz	Pass	Inf	82.5M	77.355M	81.18M	77.047M	81.18M	77.017M	80.74M	77.063M
6865MHz	Pass	Inf	81.62M	77.191M	80.96M	77.13M	81.18M	77.277M	80.96M	76.948M
6945MHz	Pass	Inf	81.84M	76.997M	81.62M	76.974M	80.3M	76.991M	80.96M	77.069M
7025MHz	Pass	Inf	82.28M	77.164M	81.4M	77.189M	80.74M	77.056M	80.96M	77.274M
802.11be EHT160_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
6665MHz	Pass	Inf	163.68M	156.227M	161.92M	156.521M	162.8M	155.958M	163.24M	156.142M
6825MHz	Pass	Inf	164.12M	156.557M	162.36M	156.63M	163.68M	156.385M	162.36M	156.065M
6985MHz	Pass	Inf	162.36M	156.179M	163.68M	156.39M	163.24M	156.083M	162.8M	156.354M
802.11be EHT320_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
6745MHz	Pass	Inf	326.48M	315.203M	325.6M	315.472M	325.6M	315.657M	324.72M	314.649M
6905MHz	Pass	Inf	325.6M	315.58M	325.6M	315.693M	323.84M	315.737M	326.48M	314.44M

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