



RADIO TEST REPORT

FCC ID : 2AHBN-AP45
Equipment : 802.11ax 6E Wireless Access Point
Brand Name : Juniper
Model Name : AP45,AP45E
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. 19, 2021, and testing was started from Oct. 19, 2021 and completed on May 05, 2022. We, Sporton International Inc. Hsinchu Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown compliance with the applicable technical standards.

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


Approved by: Sam Chen

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Table of Contents

History of this test report.....3

Summary of Test Result.....4

1 General Description5

1.1 Information.....5

1.2 Applicable Standards14

1.3 Testing Location Information14

1.4 Measurement Uncertainty15

2 Test Configuration of EUT16

2.1 Test Channel Mode16

2.2 The Worst Case Measurement Configuration29

2.3 EUT Operation during Test35

2.4 Accessories36

2.5 Support Equipment.....36

2.6 Test Setup Diagram38

3 Transmitter Test Result42

3.1 AC Power-line Conducted Emissions42

3.2 Emission Bandwidth44

3.3 Maximum Equivalent Isotropically Radiated Power (E.I.R.P.)45

3.4 Peak Power Spectral Density (E.I.R.P.)49

3.5 Unwanted Emissions.....53

3.6 Contention Based Protocol.....59

4 Test Equipment and Calibration Data60

Appendix A. Test Results of AC Power-line Conducted Emissions

Appendix B. Test Results of Emission Bandwidth

Appendix C. Test Results of Maximum Equivalent Isotropically Radiated Power (E.I.R.P.)

Appendix D. Test Results of Peak Power Spectral Density (E.I.R.P.)

Appendix E. Test Results of Unwanted Emissions

Appendix F. Test Results of Contention-Based Protocol

Appendix G. Test Results of Radiated Emission Co-location

Appendix H. Test Photos

Photographs of EUT v01



Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
1.1.2	15.203	Antenna Requirement	PASS	-
3.1	15.207	AC Power-line Conducted Emissions	PASS	-
3.2	15.407(a)	Emission Bandwidth	PASS	-
3.3	15.407(a)	Maximum Equivalent Isotropically Radiated Power (E.I.R.P.)	PASS	-
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	-

Note: Reference to Sporton Project No.: 182421-01.

Declaration of Conformity:

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

Comments and Explanations:

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

Reviewed by: **Sam Chen**

Report Producer: **Wendy Pan**



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)	5955-7095	1-229 [58]
5925-7125	ax (HEW40)	5965-7085	3-227 [29]
5925-7125	ax (HEW80)	5985-7025	7-215 [14]
5925-7125	ax (HEW160)	6025-6985	15-207 [7]

For radio 3

Band	Mode	BWch (MHz)	Nant
UNII 5~8	802.11ax HEW20	20	4TX
UNII 5~8	802.11ax HEW20-BF	20	4TX
UNII 5~8	802.11ax HEW40	40	4TX
UNII 5~8	802.11ax HEW40-BF	40	4TX
UNII 5~8	802.11ax HEW80	80	4TX
UNII 5~8	802.11ax HEW80-BF	80	4TX
UNII 5~8	802.11ax HEW160	160	4TX
UNII 5~8	802.11ax HEW160-BF	160	4TX

For radio 4

Band	Mode	BWch (MHz)	Nant
UNII 5~8	802.11ax HEW20	20	1TX
UNII 5~8	802.11ax HEW20-BF	20	1TX
UNII 5~8	802.11ax HEW40	40	1TX
UNII 5~8	802.11ax HEW40-BF	40	1TX
UNII 5~8	802.11ax HEW80	80	1TX
UNII 5~8	802.11ax HEW80-BF	80	1TX
UNII 5~8	802.11ax HEW160	160	1TX
UNII 5~8	802.11ax HEW160-BF	160	1TX

Note:

- ◆ HEW20, HEW40, HEW80 and HEW160 use a combination of OFDMA-BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM modulation.
- ◆ BWch is the nominal channel bandwidth.
- ◆ The channel defined in the IEEE Standard P802.11ax™/D6.1.



1.1.2 Antenna Information

Ant.	Port								Brand Name	Model Name	Ant. Type	Connector	Equip EUT	Gain (dBi)
	WLAN 5GHz (Radio 1)	WLAN 2.4GHz (Radio 2)	WLAN 5GHz (Radio 2)	WLAN 6GHz (Radio 3)	WLAN 2.4GHz (Radio 4)	WLAN 5GHz (Radio 4)	WLAN 6GHz (Radio 4)	BT (Radio 5)						
1	1	4	-	-	-	-	-	-	Juniper	AP45	PIFA	I-PEX	EUT 1	
2	2	3	-	-	-	-	-	-	Juniper	AP45	PIFA	I-PEX		
3	3	2	-	-	-	-	-	-	Juniper	AP45	PIFA	I-PEX		
4	4	1	-	-	-	-	-	-	Juniper	AP45	PIFA	I-PEX		
5	-	-	1	-	-	-	-	-	Juniper	AP45	PIFA	I-PEX		
6	-	-	2	-	-	-	-	-	Juniper	AP45	PIFA	I-PEX		
7	-	-	3	-	-	-	-	-	Juniper	AP45	PIFA	I-PEX		
8	-	-	4	-	-	-	-	-	Juniper	AP45	PIFA	I-PEX		
9	-	-	-	1	-	-	-	-	Juniper	AP45	PIFA	I-PEX		
10	-	-	-	2	-	-	-	-	Juniper	AP45	PIFA	I-PEX		
11	-	-	-	3	-	-	-	-	Juniper	AP45	PIFA	I-PEX		
12	-	-	-	4	-	-	-	-	Juniper	AP45	PIFA	I-PEX		
13	-	-	-	-	1	1	1	-	Juniper	AP45	PIFA	I-PEX		
14	-	-	-	-	2	2	2	-	Juniper	AP45	PIFA	I-PEX		
15	-	-	-	-	-	-	-	1	Juniper	AP45	PIFA	I-PEX	EUT 1, EUT 2	Note1
16	1	4	-	-	-	-	-	-	Acce I Tex	ATS-OO-2 456-466-1 0MC-36	OMNI	4-Port connector	EUT 2	
	2	3	-	-	-	-	-							
	3	2	-	-	-	-	-							
	4	1	-	-	-	-	-							
17	1	4	-	-	-	-	-	Acce I Tex	ATS-OP-2 456-81010 -10MC-36	Panel	4-Port connector			
	2	3	-	-	-	-	-							
	3	2	-	-	-	-	-							
	4	1	-	-	-	-	-							
18	1	4	-	-	-	-	-	Acce I Tex	ATS-OO-2 456-466-1 0MC-36	OMNI	6-Port connector			
	2	3	-	-	-	-	-							
	3	2	-	-	-	-	-							
	4	1	-	-	-	-	-							
19	1	4	-	-	-	-	-	Acce I Tex	ATS-OO-2 456-466-1 0MC-36	Panel	6-Port connector			
	2	3	-	-	-	-	-							
	3	2	-	-	-	-	-							
	4	1	-	-	-	-	-							



Note 1:

Ant.	Antenna Gain (dBi)																				
	WLAN 5GHz (Radio 1)				WLAN 2.4GHz (Radio 2)	WLAN 5GHz (Radio 2)		WLAN 6GHz (Radio 3)				WLAN 2.4GHz (Radio 4)	WLAN 5GHz (Radio 4)				WLAN 6GHz (Radio 4)				Bluetooth (Radio 5)
	UNII 1	UNII 2A	UNII 2C	UNII 3		UNII 1	UNII 2A	UNII 5	UNII 6	UNII 7	UNII 8		UNII 1	UNII 2A	UNII 2C	UNII 3	UNII 5	UNII 6	UNII 7	UNII 8	
1	2.89	3.7	3.46	2.39	2.01	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
2	2.61	2.55	3.04	3.8	0.66	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
3	1.94	2.2	2.82	2.54	2.04	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
4	3.27	4.06	2.87	2.17	1.17	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
5	-	-	-	-	-	3.2	3.56	-	-	-	-	-	-	-	-	-	-	-	-		
6	-	-	-	-	-	2.85	3.77	-	-	-	-	-	-	-	-	-	-	-	-		
7	-	-	-	-	-	3.37	3.23	-	-	-	-	-	-	-	-	-	-	-	-		
8	-	-	-	-	-	3.11	3.68	-	-	-	-	-	-	-	-	-	-	-	-		
9	-	-	-	-	-	-	-	4.9	5.4	5.4	5.6	-	-	-	-	-	-	-	-		
10	-	-	-	-	-	-	-	4.9	5.4	5.4	5.6	-	-	-	-	-	-	-	-		
11	-	-	-	-	-	-	-	4.9	5.4	5.4	5.6	-	-	-	-	-	-	-	-		
12	-	-	-	-	-	-	-	4.9	5.4	5.4	5.6	-	-	-	-	-	-	-	-		
13	-	-	-	-	-	-	-	-	-	-	-	5.0	5.4	5.4	5.5	5.3	4.7	4.8	4.8	4.1	-
14	-	-	-	-	-	-	-	-	-	-	-	5.0	5.4	5.4	5.5	5.3	4.7	4.8	4.8	4.1	-
15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.5
16	6	6	6	6	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17	10	10	10	10	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18	-	-	-	-	-	-	-	6	6	6	6	4	6	6	6	6	6	6	6	6	-
19	-	-	-	-	-	-	-	10	10	10	10	8	10	10	10	10	10	10	10	10	-

Ant.	Directional Gain (dBi)							
	WLAN 5GHz (Radio 1)				WLAN 2.4GHz (Radio 2)	WLAN 5GHz (Radio 2)		
	UNII 1	UNII 2A	UNII 2C	UNII 3		UNII 1	UNII 2A	UNII 3
1	-	-	-	-	-	-	-	-
2	-	-	-	-	-	-	-	-
3	6.44	6.41	7.19	6.67	4.23	-	-	-
4	-	-	-	-	-	-	-	-
5	-	-	-	-	-	-	-	-
6	-	-	-	-	-	-	-	-
7	-	-	-	-	-	7.7	-	-
8	-	-	-	-	-	-	8.16	-

Note 2: The EUT has nineteen antennas. The ant.15 is BLE Array (Beam 1~Beam 9 and Omni).
 Antenna 16 must be used with antenna 18 and antenna 17 must be used with antenna 19.

Note 3: The above information was declared by manufacturer.

Note 4: **For Radio 2**

For 2.4GHz:

For IEEE 802.11b/g/n/VHT/ax 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 1

For 5GHz UNII 1~3:

For IEEE 802.11a/n/ac/ax 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:

For IEEE 802.11a/n/ac/ax 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 6E UNII 5~8 (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 scanning Radio 4

For 2.4GHz, IEEE 802.11b/g/n/VHT/ax mode (1TX/2RX):

The EUT supports the antenna with TX diversity functions.

Both Port 1 and Port 2 support transmit and receive functions, but only one of them will be used at one time.

The Port 1 for EUT 1 and EUT 2 + Ant. 18 generated the worst case, so it was selected to test and record in the report.

The Port 1 for EUT 2 + Ant. 19 generated the worst case, so it was selected to test and record in the report.

For 5GHz UNII 1~3, IEEE 802.11a/n/ac/ax mode (1TX/2RX):

The EUT supports the antenna with TX diversity functions.

Both Port 1 and Port 2 support transmit and receive functions, but only one of them will be used at one time.

The Port 1 for EUT 1 and EUT 2 + Ant. 18 generated the worst case, so it was selected to test and record in the report.

The Port 1 for EUT 2 + Ant. 19 generated the worst case, so it was selected to test and record in the report.

For 6E UNII 5~8, IEEE 802.11ax mode (1TX/2RX):

The EUT supports the antenna with TX diversity functions.

Both Port 1 and Port 2 support transmit and receive functions, but only one of them will be used at one time.

The Port 1 generated the worst case, so it was selected to test and record in the report.

For Radio 5

Bluetooth (1TX/1RX):

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



Note 5: For EUT 1:

Radio 1, 2: Maximum Directional Gain following KDB662911 D03. The antenna report is provided in the operational description for this application.

For EUT 2: Maximum Directional Gain following KDB662911 D01.

For Radio 1 5GHz UNII 1~3 + Antenna 16:

For Radio 2 2.4GHz + Antenna 16:

Directional gain information

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

Ex.

Directional Gain (NSS1) formula :

$$Directional\ IGain = 10 \cdot \log \left[\frac{\sum_{i=1}^{N_{ANT}} \left\{ \sum_{k=1}^{N_{ANT}} g_{i,k} \right\}^2}{N_{ANT}} \right]$$

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

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

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

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

Where ;

$$2.4G\ G1 = 4 ; G2 = 4 ; G3 = 4 ; G4 = 4 ;$$

$$5G\ G1 = 6 ; G2 = 6 ; G3 = 6 ; G4 = 6 ;$$

$$2.4G\ DG = 10.02\ dBi$$

$$5\ GHz\ U-NII-1\ DG = 12.02\ dBi$$

$$5\ GHz\ U-NII-2A\ DG = 12.02\ dBi$$

$$5\ GHz\ U-NII-2C\ DG = 12.02\ dBi$$

$$5\ GHz\ U-NII-3\ DG = 12.02\ dBi$$



For Radio 1, 5GHz UNII 1~3 + Antenna 17:
 For Radio 2, 2.4GHz + Antenna 17:
 Directional gain information

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

Ex.

Directional Gain (NSS1) formula :

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

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

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

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

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

Where ;

$$2.4G\ G1 = 8 ; G2 = 8 ; G3 = 8 ; G4 = 8 ;$$

$$5G\ G1 = 10 ; G2 = 10 ; G3 = 10 ; G4 = 10 ;$$

$$2.4G\ DG = 14.02\ dBi$$

$$5\ GHz\ U-NII-1\ DG = 16.02\ dBi$$

$$5\ GHz\ U-NII-2A\ DG = 16.02\ dBi$$

$$5\ GHz\ U-NII-2C\ DG = 16.02\ dBi$$

$$5\ GHz\ U-NII-3\ DG = 16.02\ dBi$$

**1.1.3 Mode Test Duty Cycle****For EUT 1 + Radio 4**

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq 1/T$
802.11ax HEW20	0.981	0.08	n/a (DC \geq 0.98)	n/a (DC \geq 0.98)
802.11ax HEW40	0.967	0.15	780.313u	3k
802.11ax HEW80	0.939	0.27	413.125u	3k
802.11ax HEW160	0.894	0.49	236.25u	10k

For EUT 2 + Radio 3 + Ant.18

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq 1/T$
802.11ax HEW20	0.984	0.07	n/a (DC \geq 0.98)	n/a (DC \geq 0.98)
802.11ax HEW20-BF	0.955	0.2	2.925m	1k
802.11ax HEW40	0.967	0.15	780.625u	3k
802.11ax HEW40-BF	0.969	0.14	4.357m	300
802.11ax HEW80	0.938	0.28	413.75u	3k
802.11ax HEW80-BF	0.966	0.15	4.849m	300
802.11ax HEW160	0.899	0.46	240u	10k
802.11ax HEW160-BF	0.961	0.17	4.821m	300

For EUT 2 + Radio 3 + Ant.19

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq 1/T$
802.11ax HEW20	0.981	0.08	n/a (DC \geq 0.98)	n/a (DC \geq 0.98)
802.11ax HEW20-BF	0.953	0.21	2.925m	1k
802.11ax HEW40	0.967	0.15	780.625u	3k
802.11ax HEW40-BF	0.95	0.22	4.358m	300
802.11ax HEW80	0.934	0.3	413.75u	3k
802.11ax HEW80-BF	0.949	0.23	4.143m	300
802.11ax HEW160	0.896	0.48	237.5u	10k
802.11ax HEW160-BF	0.957	0.19	4.823m	300

For EUT 2 + Radio 4 + Ant.18

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq 1/T$
802.11ax HEW20	0.984	0.07	n/a (DC \geq 0.98)	n/a (DC \geq 0.98)
802.11ax HEW40	0.972	0.12	780.25u	3k
802.11ax HEW80	0.931	0.31	413.25u	3k
802.11ax HEW160	0.903	0.44	292.5u	10k



For EUT 2 + Radio 4 + Ant.19

Mode	DC	DCF(dB)	T(s)	VBW(Hz) ≥ 1/T
802.11ax HEW20	0.984	0.07	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11ax HEW40	0.972	0.12	780.25u	3k
802.11ax HEW80	0.931	0.31	413.25u	3k
802.11ax HEW160	0.903	0.44	292.5u	10k

Note:

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

1.1.4 EUT Operational Condition

EUT Power Type	From PoE			
Beamforming Function	<input checked="" type="checkbox"/>	With beamforming	<input type="checkbox"/>	Without beamforming
	The product has beamforming function for n/VHT/ax in 2.4GHz of radio 2, n/ac/ax in 5GHz UNII 1~UNII 3 of radio 1, 5GHz UNII 1~UNII 2 of radio 2 and ax in 6GHz UNII 5~UNII 8 of radio 3.			
Device Type	<input checked="" type="checkbox"/>	Indoor Access Point	<input type="checkbox"/>	Subordinate
	<input type="checkbox"/>	Indoor Client	<input type="checkbox"/>	Standard Power Access Point
	<input type="checkbox"/>	Dual Client	<input type="checkbox"/>	Standard Client
	<input type="checkbox"/>	Fixed Client		
Test Software Version	accessMTool 3.2.1.5, DOS [ver 6.1.7601]			
Software / Firmware Version for CBP	5.04L.02p1			

Note: The above information was declared by manufacturer.



1.1.5 Table for Multiple Listing

Model Name	EUT	Antenna	FEM of Radio 1 (WLAN 5GHz UNII 2C~3)	FEM of Radio 2 (WLAN 5GHz UNII 1~2A)
AP45	1	Internal	V	V
AP45E	2	External	Unsupported	Unsupported

Note 1: FEM means Front End Module

Note 2: The above information was declared by manufacturer.

1.1.6 Table for Configuration and Radio Function

Configuration	EUT	Radio 1	Radio 2	Radio 3	Radio 4 (Scanning)	Radio 5
1	EUT 1	(WLAN 5GHz UNII 1~3)	(WLAN 2.4GHz)	(WLAN 6GHz)	(WLAN 2.4GHz)	(Bluetooth)
2	EUT 1				(WLAN 5GHz)	
3	EUT 1				(WLAN 6GHz)	
4	EUT 1 (FEM)	(WLAN 5GHz UNII 2C~3)	(WLAN 5GHz UNII 1~2A)		(WLAN 2.4GHz)	
5	EUT 1 (FEM)				(WLAN 5GHz)	
6	EUT 1 (FEM)				(WLAN 6GHz)	
7	EUT 2	(WLAN 5GHz UNII 1~3)	(WLAN 2.4GHz)		(WLAN 2.4GHz)	
8	EUT 2				(WLAN 5GHz)	
9	EUT 2				(WLAN 6GHz)	

Note: The above information was declared by manufacturer.

1.1.7 Table for Permissive Change

This product is an extension of original one reported under Sporton project number: FR182421-01AB

Below is the table for the change of the product with respect to the original one.

Modifications	Performance Checking
<p>For EUT 1:</p> <ol style="list-style-type: none"> Radio 1: enable UNII 2A, 2C. Radio 2: enable UNII 2A. Radio 4: enable UNII 2A, 2C, 6G. <p>For EUT 2:</p> <ol style="list-style-type: none"> Radio 1: enable UNII 2A, 2C. Radio 3: enable 6G. Radio 4: enable this radio, the function includes 2.4G, 5G UNII 1~3, 6G. Adding two sets antenna for radio 3 and radio 4 (Antenna set 18~19). 	<ol style="list-style-type: none"> EUT 1 enable Radio 4 (6GHz) EUT 2 enable Radio 3 (6GHz) EUT 2 enable Radio 4 (6GHz), the test items as below: <ol style="list-style-type: none"> Emission Bandwidth Maximum Output Power Power Spectral Density Unwanted Emissions above 1GHz Contention Based Protocol EUT 1 enable Radio 4 (6GHz), EUT 2 enable Radio 3 (6GHz), Radio 4 (2.4GHz, 5GHz and 6GHz), the test items as below: <ol style="list-style-type: none"> AC Power-line Conducted Emissions Unwanted Emissions below 1GHz.



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 v01r01
- ◆ FCC KDB 662911 D01 v02r01
- ◆ 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 (EUT 1)	TH03-CB	Brian Sun	24.3~25.2 / 60~62	Oct. 19, 2021~ Mar. 15, 2022
RF Conducted (EUT 2)	TH01-CB	Owen Hsu	20.3~21.9 / 58~62	Jan. 13, 2022~ May 05, 2022
Radiated below 1GHz (Test Mode: Mode2~7)	03CH05-CB	Ken Yeh	22.5~23.6 / 56~59	Dec. 29, 2021
Radiated below 1GHz (Test Mode: Mode1, 8, 9)	03CH03-CB	Eason Chen	24.2~26.1 / 55~58	Mar. 30, 2022
Radiated Above 1GHz	03CH04-CB	Eason Chen	23.5~24.6 / 55~59	Oct. 23, 2021~ Mar. 01, 2022
	03CH01-CB		23.8~24.9 / 55~58	
Radiated Co-location	03CH05-CB	Eason Chen	24~25.1 / 56~59	Dec. 29, 2021~ Apr. 14, 2022
AC Conduction (Test Mode: Mode1-2)	CO01-CB	Joe Chu	20~22 / 60~62	Apr. 07, 2022
AC Conduction (Test Mode: Mode3-4)	CO01-CB	Peter Wu	22~23 / 55~56	Nov. 15, 2021~ Jan. 04, 2022
RF Conducted (Contention-Based Protocol test)	DF02-CB	Jay Lo	18.8~19.7 / 65~68	Feb. 20, 2022~ Feb. 23, 2022



1.4 Measurement Uncertainty

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

Test Items	Uncertainty	Remark
Conducted Emission (150kHz ~ 30MHz)	3.4 dB	Confidence levels of 95%
Radiated Emission (9kHz ~ 30MHz)	4.2 dB	Confidence levels of 95%
Radiated Emission (30MHz ~ 1,000MHz)	5.5 dB	Confidence levels of 95%
Radiated Emission (1GHz ~ 18GHz)	4.7 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	4.2 dB	Confidence levels of 95%
Conducted Emission	2.5 dB	Confidence levels of 95%
Output Power Measurement	1.3 dB	Confidence levels of 95%
Power Density Measurement	2.5 dB	Confidence levels of 95%
Bandwidth Measurement	0.9%	Confidence levels of 95%



2 Test Configuration of EUT

2.1 Test Channel Mode

For EUT 1 + Radio 4

Mode	Power Setting
802.11ax HEW20_Nss1,(MCS0)_1TX	-
5955MHz	48
6175MHz	49
6415MHz	50
6435MHz	50
6475MHz	50
6515MHz	51
6535MHz	51
6695MHz	49
6855MHz	52
6875MHz Straddle 6.525-6.875GHz	52
6895MHz	54
6995MHz	54
7095MHz	56
802.11ax HEW40_Nss1,(MCS0)_1TX	-
5965MHz	59
6165MHz	60
6405MHz	62
6445MHz	60
6485MHz	61
6525MHz Straddle 6.425-6.525GHz	61
6565MHz	62
6685MHz	60
6845MHz	63
6885MHz Straddle 6.525-6.875GHz	63
6925MHz	63
7005MHz	66
7085MHz	66
802.11ax HEW80_Nss1,(MCS0)_1TX	-
5985MHz	72
6145MHz	72
6385MHz	74
6465MHz	72



Mode	Power Setting
6545MHz Straddle 6.425-6.525GHz	74
6625MHz	71
6705MHz	72
6785MHz	72
6865MHz Straddle 6.525-6.875GHz	74
6945MHz	76
7025MHz	80
802.11ax HEW160_Nss1,(MCS0)_1TX	-
6025MHz	83
6185MHz	85
6345MHz	83
6505MHz Straddle 6.425-6.525GHz	84
6665MHz	84
6825MHz Straddle 6.525-6.875GHz	85
6985MHz	82



For EUT 2 + Radio 3 + Ant.18

Mode	Power Setting
802.11ax HEW20_Nss1,(MCS0)_4TX	-
5955MHz	28
6175MHz	20
6415MHz	22
6435MHz	32
6475MHz	27
6515MHz	31
6535MHz	32
6695MHz	30
6855MHz	35
6875MHz Straddle 6.525-6.875GHz	33
6895MHz	29
6995MHz	25
7095MHz	26
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	-
5955MHz	25
6175MHz	21
6415MHz	19
6435MHz	33
6475MHz	25
6515MHz	27
6535MHz	28
6695MHz	27
6855MHz	28
6875MHz Straddle 6.525-6.875GHz	27
6895MHz	28
6995MHz	27
7095MHz	28
802.11ax HEW40_Nss1,(MCS0)_4TX	-
5965MHz	36
6165MHz	33
6405MHz	31
6445MHz	41
6485MHz	37
6525MHz Straddle 6.425-6.525GHz	42
6565MHz	40
6685MHz	43
6845MHz	45



Mode	Power Setting
6885MHz Straddle 6.525-6.875GHz	40
6925MHz	42
7005MHz	37
7085MHz	39
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	-
5965MHz	35
6165MHz	38
6405MHz	33
6445MHz	40
6485MHz	44
6525MHz Straddle 6.425-6.525GHz	43
6565MHz	44
6685MHz	36
6845MHz	38
6885MHz Straddle 6.525-6.875GHz	40
6925MHz	40
7005MHz	39
7085MHz	40
802.11ax HEW80_Nss1,(MCS0)_4TX	-
5985MHz	44
6145MHz	47
6385MHz	41
6465MHz	52
6545MHz Straddle 6.425-6.525GHz	52
6625MHz	51
6705MHz	56
6785MHz	52
6865MHz Straddle 6.525-6.875GHz	57
6945MHz	52
7025MHz	47
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	-
5985MHz	46
6145MHz	52
6385MHz	49
6465MHz	52
6545MHz Straddle 6.425-6.525GHz	56
6625MHz	49
6705MHz	54
6785MHz	56



Mode	Power Setting
6865MHz Straddle 6.525-6.875GHz	56
6945MHz	55
7025MHz	53
802.11ax HEW160_Nss1,(MCS0)_4TX	-
6025MHz	58
6185MHz	56
6345MHz	55
6505MHz Straddle 6.425-6.525GHz	62
6665MHz	67
6825MHz Straddle 6.525-6.875GHz	66
6985MHz	62
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	-
6025MHz	47
6185MHz	47
6345MHz	48
6505MHz Straddle 6.425-6.525GHz	60
6665MHz	59
6825MHz Straddle 6.525-6.875GHz	54
6985MHz	50



For EUT 2 + Radio 3 + Ant.19

Mode	Power Setting
802.11ax HEW20_Nss1,(MCS0)_4TX	-
5955MHz	8
6175MHz	12
6415MHz	9
6435MHz	9
6475MHz	13
6515MHz	15
6535MHz	9
6695MHz	13
6855MHz	10
6875MHz Straddle 6.525-6.875GHz	12
6895MHz	14
6995MHz	11
7095MHz	17
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	-
5955MHz	3
6175MHz	2
6415MHz	1
6435MHz	-3
6475MHz	2
6515MHz	1
6535MHz	-1
6695MHz	-5
6855MHz	1
6875MHz Straddle 6.525-6.875GHz	-3
6895MHz	1
6995MHz	10
7095MHz	9
802.11ax HEW40_Nss1,(MCS0)_4TX	-
5965MHz	21
6165MHz	17
6405MHz	21
6445MHz	21
6485MHz	21
6525MHz Straddle 6.425-6.525GHz	21
6565MHz	22
6685MHz	19
6845MHz	19



Mode	Power Setting
6885MHz Straddle 6.525-6.875GHz	25
6925MHz	27
7005MHz	27
7085MHz	25
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	-
5965MHz	9
6165MHz	9
6405MHz	7
6445MHz	8
6485MHz	15
6525MHz Straddle 6.425-6.525GHz	13
6565MHz	8
6685MHz	9
6845MHz	10
6885MHz Straddle 6.525-6.875GHz	2
6885MHz Straddle 6.875-7.125GHz	
6925MHz	10
7005MHz	9



802.11ax HEW80_Nss1,(MCS0)_4TX	-
5985MHz	35
6145MHz	29
6385MHz	26
6465MHz	33
6545MHz Straddle 6.425-6.525GHz	29
6625MHz	33
6705MHz	33
6785MHz	31
6865MHz Straddle 6.525-6.875GHz	35
6945MHz	37
7025MHz	34
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	-
5985MHz	9
6145MHz	16
6385MHz	10
6465MHz	25
6545MHz Straddle 6.425-6.525GHz	17
6625MHz	14
6705MHz	29
6785MHz	27
6865MHz Straddle 6.525-6.875GHz	29
6945MHz	15
7025MHz	35
802.11ax HEW160_Nss1,(MCS0)_4TX	-
6025MHz	40
6185MHz	40
6345MHz	41
6505MHz Straddle 6.425-6.525GHz	40
6665MHz	39
6825MHz Straddle 6.525-6.875GHz	41
6985MHz	41
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	-
6025MHz	35
6185MHz	26
6345MHz	26
6505MHz Straddle 6.425-6.525GHz	30
6665MHz	34
6825MHz Straddle 6.525-6.875GHz	33



6985MHz	36
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For EUT 2 + Radio 4 + Ant.18

Mode	Power Setting
802.11ax HEW20_Nss1,(MCS0)_1TX	-
5955MHz	50
6175MHz	49
6415MHz	46
6435MHz	49
6475MHz	49
6515MHz	49
6535MHz	49
6695MHz	50
6855MHz	51
6875MHz Straddle 6.525-6.875GHz	53
6895MHz	52
6995MHz	49
7095MHz	52
802.11ax HEW40_Nss1,(MCS0)_1TX	-
5965MHz	58
6165MHz	60
6405MHz	57
6445MHz	60
6485MHz	61
6525MHz Straddle 6.425-6.525GHz	60
6565MHz	60
6685MHz	61
6845MHz	61
6885MHz Straddle 6.525-6.875GHz	62
6925MHz	58
7005MHz	59
7085MHz	61
802.11ax HEW80_Nss1,(MCS0)_1TX	-
5985MHz	65
6145MHz	65
6385MHz	64
6465MHz	69
6545MHz Straddle 6.425-6.525GHz	68
6625MHz	69
6705MHz	69
6785MHz	71
6865MHz Straddle 6.525-6.875GHz	70



Mode	Power Setting
6945MHz	65
7025MHz	67
802.11ax HEW160_Nss1,(MCS0)_1TX	-
6025MHz	65
6185MHz	65
6345MHz	65
6505MHz Straddle 6.425-6.525GHz	66
6665MHz	67
6825MHz Straddle 6.525-6.875GHz	69
6985MHz	67



For EUT 2 + Radio 4 + Ant.19

Mode	Power Setting
802.11ax HEW20_Nss1,(MCS0)_1TX	-
5955MHz	34
6175MHz	33
6415MHz	31
6435MHz	33
6475MHz	33
6515MHz	33
6535MHz	33
6695MHz	35
6855MHz	36
6875MHz Straddle 6.525-6.875GHz	36
6895MHz	36
6995MHz	33
7095MHz	37
802.11ax HEW40_Nss1,(MCS0)_1TX	-
5965MHz	42
6165MHz	43
6405MHz	41
6445MHz	43
6485MHz	44
6525MHz Straddle 6.425-6.525GHz	43
6565MHz	43
6685MHz	45
6845MHz	44
6885MHz Straddle 6.525-6.875GHz	46
6925MHz	43
7005MHz	44
7085MHz	45
802.11ax HEW80_Nss1,(MCS0)_1TX	-
5985MHz	48
6145MHz	49
6385MHz	47
6465MHz	51
6545MHz Straddle 6.425-6.525GHz	52
6625MHz	51
6705MHz	52
6785MHz	53
6865MHz Straddle 6.525-6.875GHz	53



Mode	Power Setting
6945MHz	48
7025MHz	50
802.11ax HEW160_Nss1,(MCS0)_1TX	-
6025MHz	48
6185MHz	49
6345MHz	47
6505MHz Straddle 6.425-6.525GHz	49
6665MHz	51
6825MHz Straddle 6.525-6.875GHz	53
6985MHz	50



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						
	The EUT 1 performed testing at unsupported FEM and supported FEM mode The unsupported FEM mode has been evaluated to be the worst case. So the measurement will follow this same test configuration.						
	EUT	Radio 1	Radio 2	Radio 3	Radio 4	Radio 5	Powered by
1	EUT 1	5GHz Full band	2.4GHz	6GHz	6GHz	Bluetooth	PoE
2	EUT 2	5GHz Full band (Ant.17)	2.4GHz (Ant.17)	6GHz (Ant.19)	6GHz (Ant.19)	Bluetooth	PoE
3	EUT 2	5GHz Full band (Ant.17)	2.4GHz (Ant.17)	6GHz (Ant.19)	2.4GHz (Ant.19)	Bluetooth	PoE
4	EUT 2	5GHz Full band (Ant.17)	2.4GHz (Ant.17)	6GHz (Ant.19)	5GHz (Ant.19)	Bluetooth	PoE

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

The Worst Case Mode for Following Conformance Tests	
Tests Item	Emission Bandwidth Emission MASK
Test Condition	Conducted measurement at transmit chains
1	EUT 1 + Radio 4
2	EUT 2 + Radio 3 + Ant.18
3	EUT 2 + Radio 3 + Ant.19
4	EUT 2 + Radio 4 + Ant.18
5	EUT 2 + Radio 4 + Ant.19



The Worst Case Mode for Following Conformance Tests	
Tests Item	Contention Based Protocol
Test Condition	Conducted measurement at transmit chains
1	EUT 1 + Radio 4

The Worst Case Mode for Following Conformance Tests	
Tests Item	Maximum Equivalent Isotropically Radiated Power (E.I.R.P.) Peak Power Spectral Density (E.I.R.P.)
Test Condition	Radiated measurement If EUT consist of multiple antenna assembly (multiple antenna are used in EUT regardless of spatial multiplexing MIMO configuration), the radiated test should be performed with highest antenna gain of each antenna type. The EUT was performed at X axis, Y axis and Z axis position , and the worst case was found as below. So the measurement will follow this same test configuration
1	EUT 2 in Z axis + Radio 3 + Ant.18
2	EUT 2 in Z axis + Radio 3 + Ant.19

The Worst Case Mode for Following Conformance Tests	
Tests Item	Maximum Equivalent Isotropically Radiated Power (E.I.R.P.) Peak Power Spectral Density (E.I.R.P.)
Test Condition	Conducted measurement at transmit chains
1	EUT 1 + Radio 4
2	EUT 2 + Radio 4 + Ant.18
3	EUT 2 + Radio 4 + Ant.19



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						
	1. The EUT 1 performed testing at unsupported FEM and supported FEM mode, the unsupported FEM mode has been evaluated to be the worst case. So the measurement will follow this same test configuration. 2. The EUT 1 was performed at X axis, Y axis and Z axis position, and the worst case was EUT found at X axis. So the measurement will follow this same test configuration.						
	EUT	Radio 1	Radio 2	Radio 3	Radio 4	Radio 5	Powered by
1	EUT 1 in X axis	5GHz Full band	2.4GHz	6GHz	6GHz	Bluetooth	PoE
2	EUT 2 in Z axis	5GHz Full band (Ant.16)	2.4GHz (Ant.16)	6GHz (Ant.18)	2.4GHz (Ant.18)	Bluetooth	PoE
3	EUT 2 in Z axis	5GHz Full band (Ant.16)	2.4GHz (Ant.16)	6GHz (Ant.18)	5GHz (Ant.18)	Bluetooth	PoE
Mode 2 has been evaluated to be the worst case among Mode 2~3, thus measurement for mode 4 ~ 5 will follow this same test mode.							
4	EUT 2 in Y axis	5GHz Full band (Ant.16)	2.4GHz (Ant.16)	6GHz (Ant.18)	2.4GHz (Ant.18)	Bluetooth	PoE
5	EUT 2 in X axis	5GHz Full band (Ant.16)	2.4GHz (Ant.16)	6GHz (Ant.18)	2.4GHz (Ant.18)	Bluetooth	PoE
Mode 4 has been evaluated to be the worst case among Mode 2~5, thus measurement for mode 6 ~ 9 will follow this same test mode.							
6	EUT 2 in Y axis	5GHz Full band (Ant.17)	2.4GHz (Ant.17)	6GHz (Ant.19)	2.4GHz (Ant.19)	Bluetooth	PoE



7	EUT 2 in Y axis	5GHz Full band (Ant.17)	2.4GHz (Ant.17)	6GHz (Ant.19)	5GHz (Ant.19)	Bluetooth	PoE
8	EUT 2 in Y axis	5GHz Full band (Ant.16)	2.4GHz (Ant.16)	6GHz (Ant.18)	6GHz (Ant.18)	Bluetooth	PoE
9	EUT 2 in Y axis	5GHz Full band (Ant.17)	2.4GHz (Ant.17)	6GHz (Ant.19)	6GHz (Ant.19)	Bluetooth	PoE
For operating mode 1 is the worst case and it was record in this test report.							
Operating Mode > 1GHz	CTX						
	The EUT was performed at X axis, Y axis and Z axis position, and the worst case was found as below. So the measurement will follow this same test configuration						
1	EUT 1 in X axis + Radio 3						
2	EUT 2 in Z axis + Radio 3 + Ant.18						
3	EUT 2 in Z axis + Radio 3 + Ant.19						
4	EUT 2 in X axis + Radio 4 + Ant.18						
5	EUT 2 in Y axis + Radio 4 + Ant.19						



The Worst Case Mode for Following Conformance Tests			
Tests Item	Simultaneous Transmission Analysis - Radiated Emission Co-location		
Test Condition	Radiated measurement		
Operating Mode	Normal Link		
	The EUT was performed at X axis, Y axis and Z axis position for Radiated emission above 1GHz test, and the worst case was found as below. So the measurement will follow this same test configuration		
	EUT	Radio 3	Radio 4
1	EUT 2 in Y axis	6GHz (Ant.18)	2.4GHz (Ant.18)
2	EUT 2 in X axis	6GHz (Ant.18)	5GHz (Ant.18)
3	EUT 2 in X axis	6GHz (Ant.18)	6GHz (Ant.18)
4	EUT 2 in Y axis	6GHz (Ant.19)	2.4GHz (Ant.19)
5	EUT 2 in Z axis	6GHz (Ant.19)	5GHz (Ant.19)
6	EUT 2 in Z axis	6GHz (Ant.19)	6GHz (Ant.19)
For operating mode 4 is the worst case and it was record in this test report.			



The Worst Case Mode for Following Conformance Tests						
Tests Item	Simultaneous Transmission Analysis - Co-location RF Exposure Evaluation					
Operating Mode	EUT	Radio 1	Radio 2	Radio 3	Radio 4	Radio 5
1	EUT 1	5GHz Full band	2.4GHz	6GHz	2.4GHz	Bluetooth
2	EUT 1	5GHz Full band	2.4GHz	6GHz	5GHz	Bluetooth
3	EUT 1	5GHz Full band	2.4GHz	6GHz	6GHz	Bluetooth
4	EUT 1	5GHz Full band	2.4GHz	6GHz	2.4GHz	Bluetooth
5	EUT 1	5GHz Full band	2.4GHz	6GHz	5GHz	Bluetooth
6	EUT 1	5GHz high band	5GHz low band	6GHz	6GHz	Bluetooth
7	EUT 2	5GHz Full band	2.4GHz	6GHz	2.4GHz	Bluetooth
8	EUT 2	5GHz Full band	2.4GHz	6GHz	5GHz	Bluetooth
9	EUT 2	5GHz Full band	2.4GHz	6GHz	6GHz	Bluetooth

Refer to Sporton Test Report No.: FA182421-02 for Co-location RF Exposure Evaluation.

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

PoE information as below:

Power	Brand	Model
PoE	PHIHONG	POE60U-1BT-5



2.3 EUT Operation during Test

For CTX Mode:

non-beamforming mode:

The EUT was programmed to be in continuously transmitting mode.

beamforming mode:

For Conducted Mode:

The EUT was programmed to be in continuously transmitting mode.

For Radiated Mode:

During the test, the following programs under WIN 7 were executed.

The program was executed as follows:

1. During the test, the EUT operation to normal function.
2. Executed command fixed test channel under DOS [ver 6.1.7601].
3. Executed "Lantest.exe" to link with the remote workstation to transmit and receive packet by Client and transmit duty cycle no less than 98%.

For Normal Link:

During the test, the EUT operation to normal function.



2.4 Accessories

Others
Antenna bracket*1 (Only for ant. 17 and ant. 19 use)
Bracket*1

2.5 Support Equipment

For AC Conduction:

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	PoE	PHIHONG	POE60U-1BT-5	N/A
B	PD Load	Juniper	AP45	N/A
C	PD PC	DELL	T3400	N/A
D	LAN NB	DELL	E6430	N/A
E	2.4G NB	DELL	E6430	N/A
F	5G NB	DELL	E6430	N/A
G	SCAN NB	DELL	E6430	N/A
H	6E Device	Juniper	AP45	2AHBN-AP45
I	Flash Disk3.0	Transcend	JetFlash-700	N/A
J	6E NB	DELL	E6430	N/A

For Radiated (below 1GHz):

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	LAN Notebook	DELL	E4300	N/A
B	LAN Notebook	DELL	E4300	N/A
C	WLAN module(6E)	Intel	AX210NGW	PD9AX210NG
D	WLAN module(6E)	Intel	AX210NGW	PD9AX210NG
E	WiFi Notebook(2.4G)	DELL	E4300	N/A
F	WiFi Notebook(5G)	DELL	E4300	N/A
G	Flash disk3.0	Silicon Power	B06	N/A
H	PD Load	Juniper	AP45, AP45E	N/A
I	PoE	PHIHONG	ADP-60HR B	N/A



**For Radiated (above 1GHz):
non-beamforming mode**

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	Notebook	DELL	E4300	N/A
B	PoE	PHIHONG	POE60U-1BT-5	N/A

**For Radiated (above 1GHz):
beamforming mode**

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	Notebook	DELL	E4300	N/A
B	PoE	PHIHONG	POE60U-1BT-5	N/A
C	Client	Juniper	AP45	2AHBN-AP45

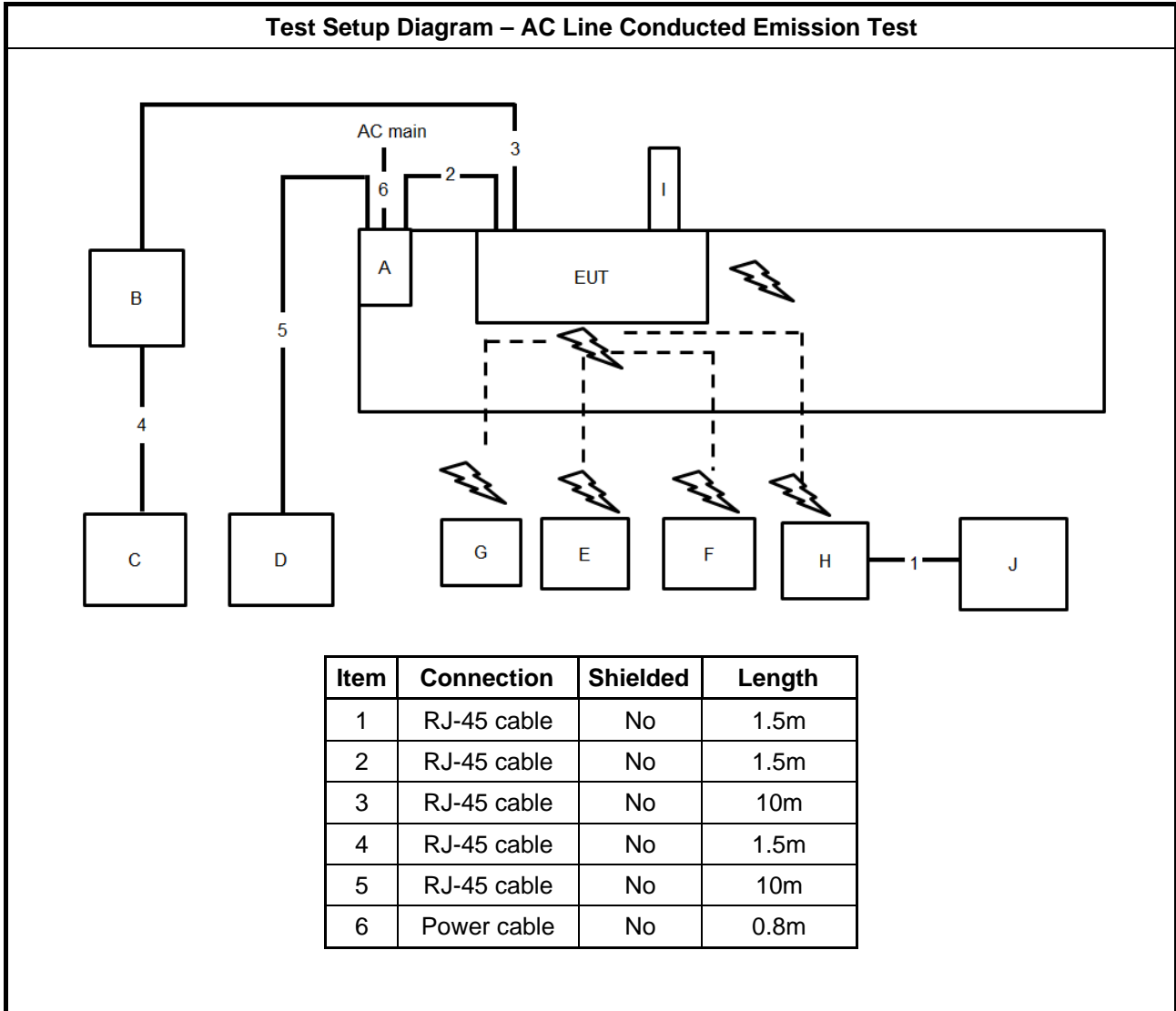
**For RF Conducted:
For EUT 1**

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	PoE	PHIHONG	POE60U-1BT-5	N/A
B	Notebook	DELL	E4300	N/A

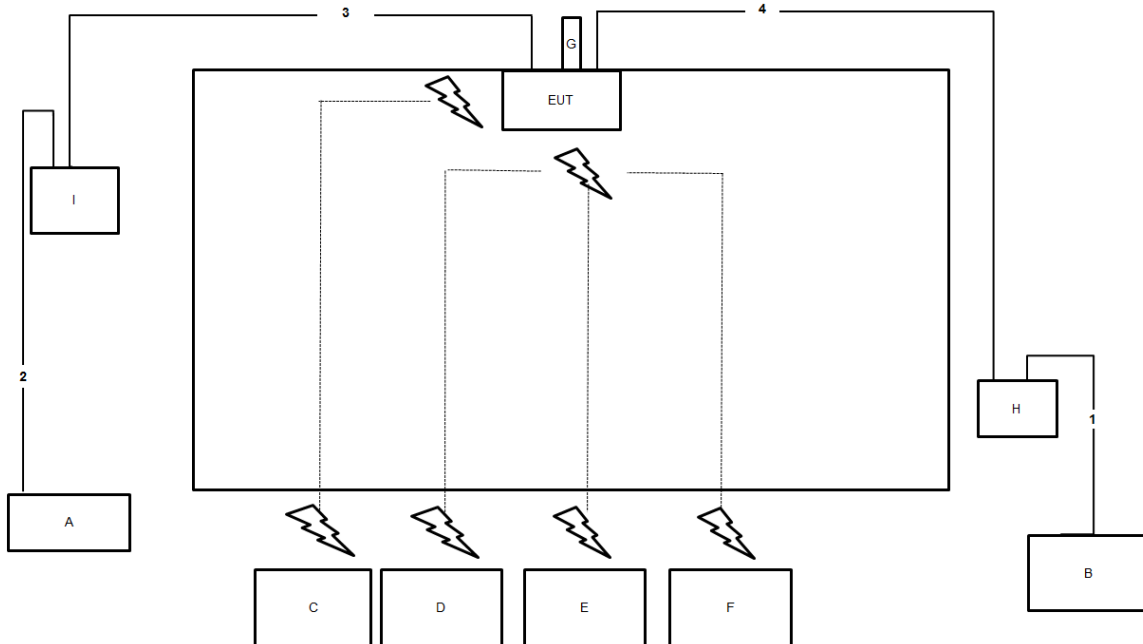
For EUT 2

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	Notebook	DELL	E4300	N/A
B	PoE	PHIHONG	POE60U-1BT-5	N/A

2.6 Test Setup Diagram

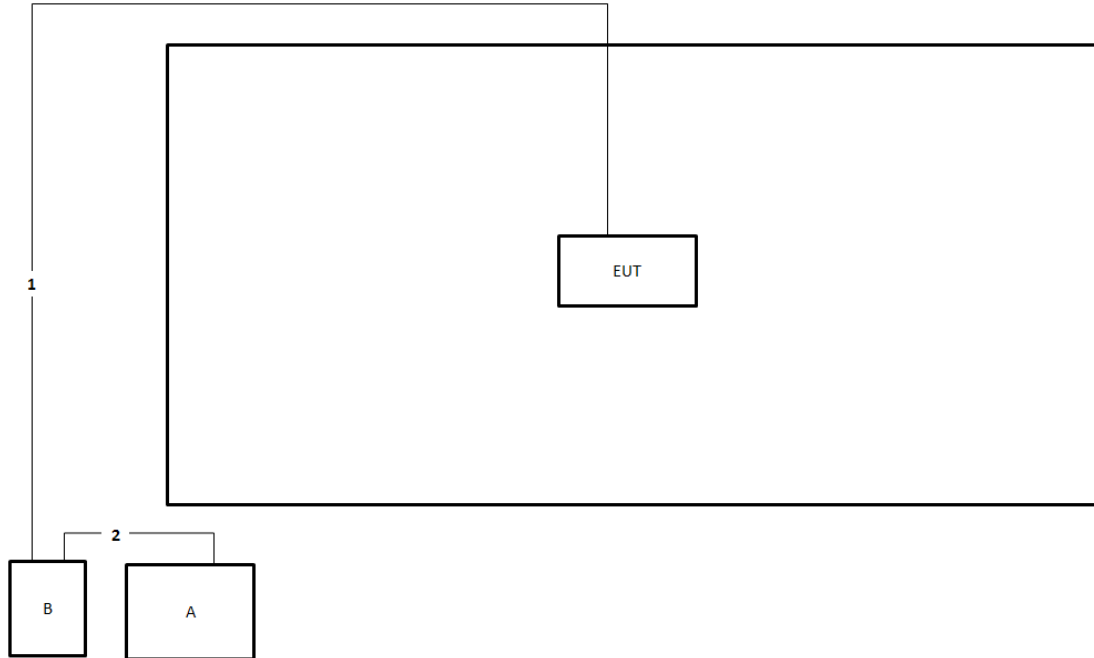


Test Setup Diagram - Radiated Test < 1GHz

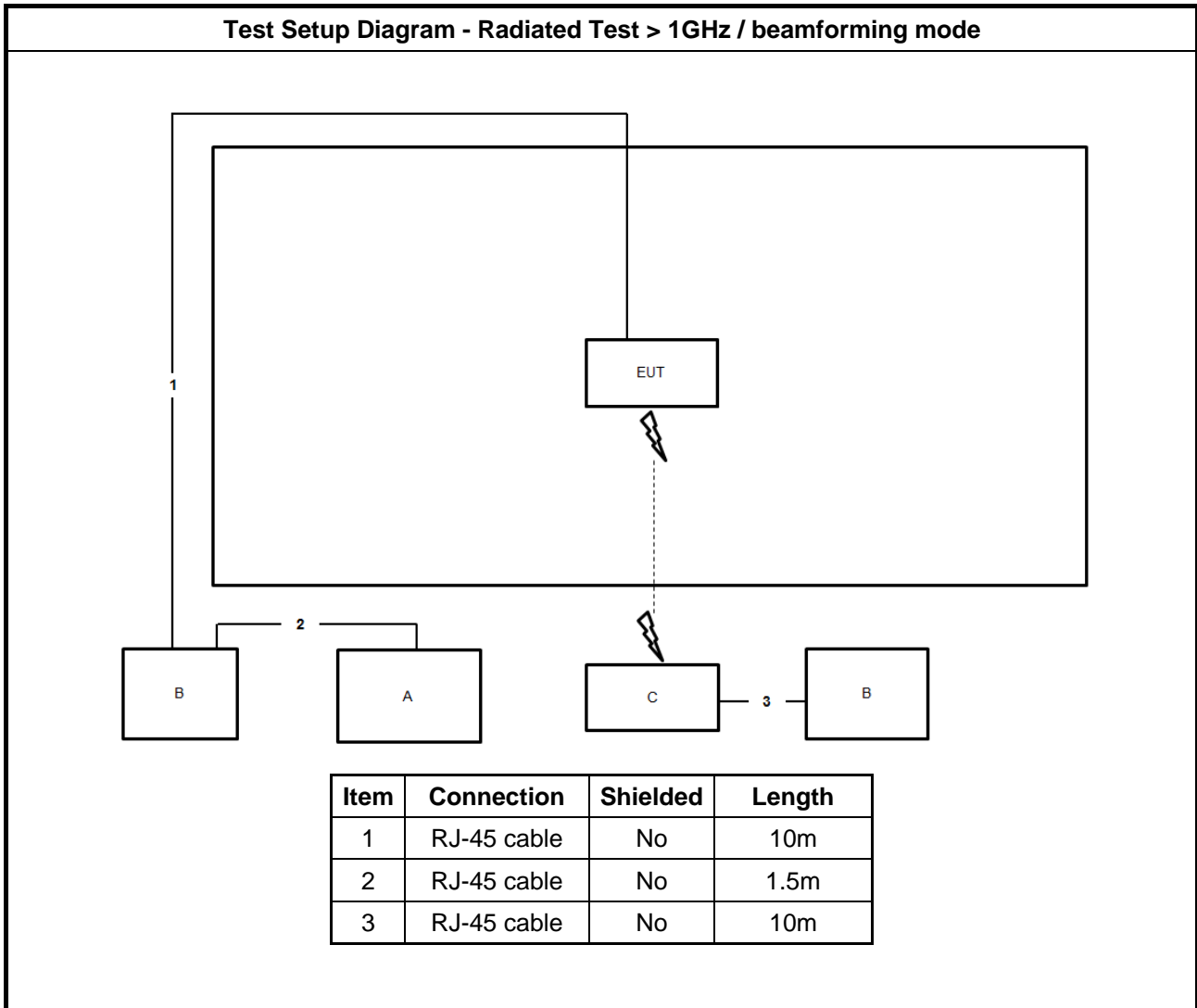


Item	Connection	Shielded	Length
1	RJ-45 cable	No	1.5m
2	RJ-45 cable	No	1.5m
3	RJ-45 cable	No	10m
4	RJ-45 cable	No	10m

Test Setup Diagram - Radiated Test > 1GHz / non-beamforming mode



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





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.

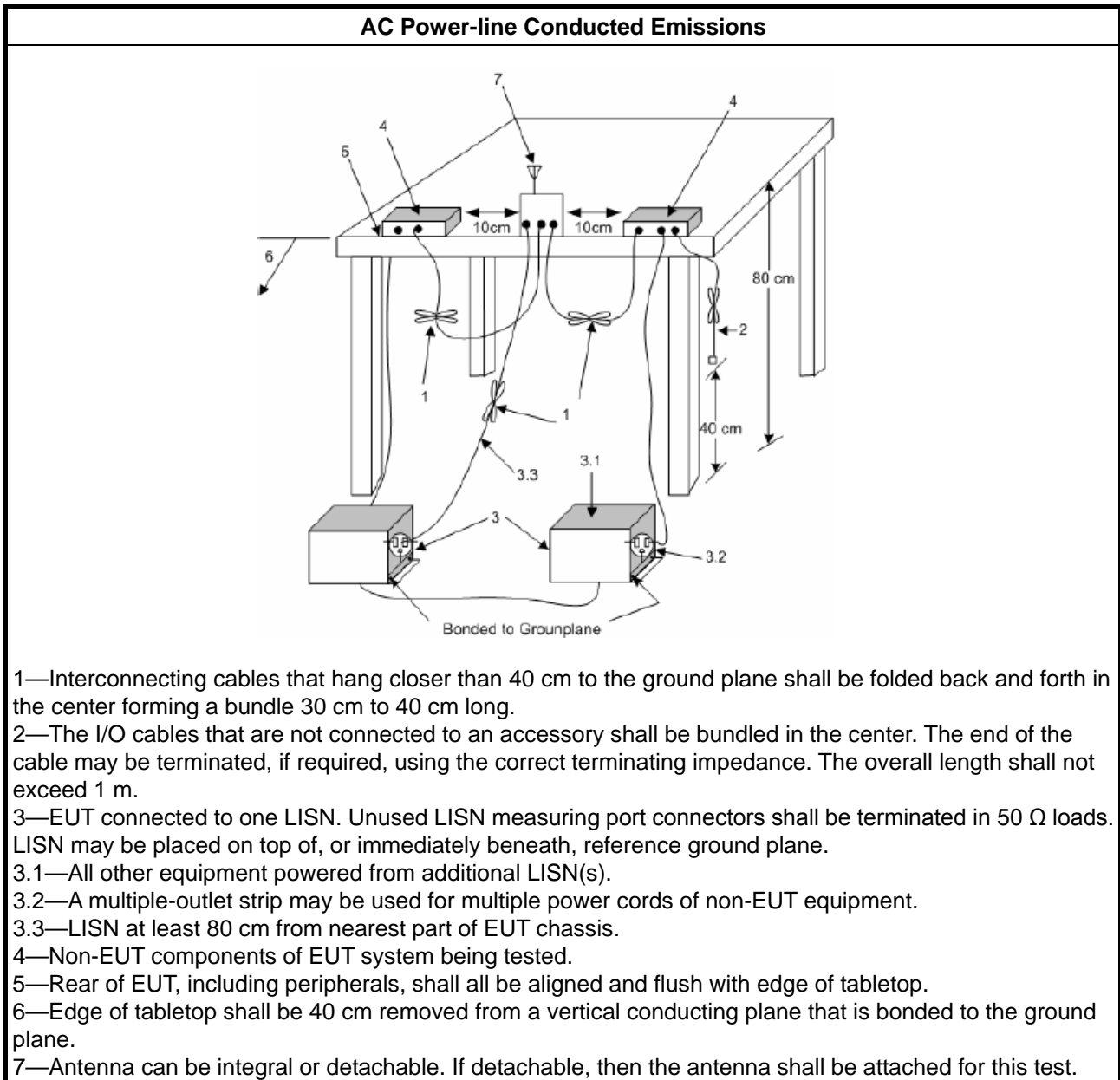
3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

Test Method
<input checked="" type="checkbox"/> Refer as ANSI C63.10-2013, clause 6.2 for AC power-line conducted emissions.

3.1.4 Test Setup



3.1.5 Measurement Results Calculation

The measured Level is calculated using:

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

3.1.6 Test Result of AC Power-line Conducted Emissions

Refer as Appendix A

3.2 Emission Bandwidth

3.2.1 Emission Bandwidth Limit

Emission Bandwidth Limit	
UNII Devices	
<input checked="" type="checkbox"/>	For the 5925-6425 GHz band, N/A
<input checked="" type="checkbox"/>	For the 6425-6525 GHz band, N/A
<input checked="" type="checkbox"/>	For the 6525-6875 GHz band, N/A
<input checked="" type="checkbox"/>	For the 6875-7125 GHz band, N/A
RLAN Devices	
<input type="checkbox"/>	For the 5925-6425 GHz band, N/A
<input type="checkbox"/>	For the 6425-6525 GHz band, N/A
<input type="checkbox"/>	For the 6525-6875 GHz band, N/A
<input type="checkbox"/>	For the 6875-7125 GHz band, N/A

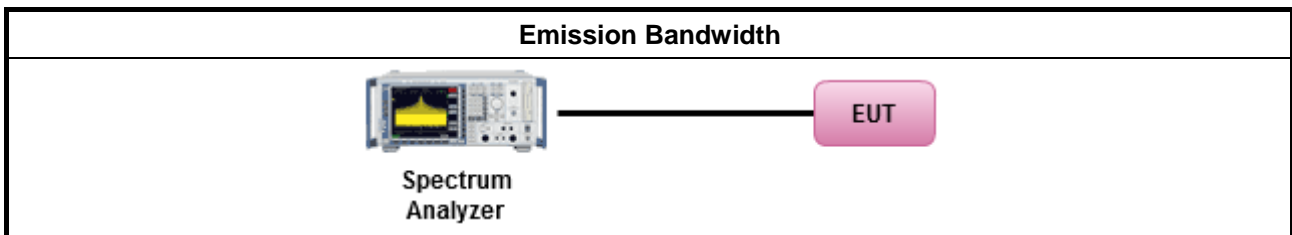
3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

Test Method	
<ul style="list-style-type: none"> ▪ For the emission bandwidth shall be measured using one of the options below: 	
<input checked="" type="checkbox"/>	According to 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.
<input type="checkbox"/>	Refer as ANSI C63.10, clause 6.9.1 for occupied bandwidth testing.
<input type="checkbox"/>	Refer as IC RSS-Gen, clause 4.6 for bandwidth testing.

3.2.4 Test Setup



3.2.5 Test Result of Emission Bandwidth

Refer as Appendix B



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

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

Maximum Equivalent Isotropically Radiated Power (E.I.R.P.) Limit	
UNII Devices	
<input checked="" type="checkbox"/> For the 5.925 ~ 6.425 GHz band:	
<input type="checkbox"/>	<ul style="list-style-type: none"> ▪ 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.
<input checked="" type="checkbox"/> For the 6.425 ~ 6.525 GHz band:	
<input type="checkbox"/>	<ul style="list-style-type: none"> ▪ 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.
<input checked="" type="checkbox"/> For the 6.525 ~ 6.875 GHz band:	
<input type="checkbox"/>	<ul style="list-style-type: none"> ▪ 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.
<input checked="" type="checkbox"/> For the 6.875 ~ 7.125 GHz band:	
<input type="checkbox"/>	<ul style="list-style-type: none"> ▪ 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	
<input type="checkbox"/> For the 5.925 ~ 7.125 GHz band:	
<input type="checkbox"/>	<ul style="list-style-type: none"> ▪ For RLAN devices(Indoor) other than client devices < 30 dBm / occupied bandwidth. ▪ For client devices(Indoor) < 24 dBm / occupied bandwidth.



3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

Test Method	
<ul style="list-style-type: none"> 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	
<input checked="" type="checkbox"/>	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.
<input type="checkbox"/>	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	
<input checked="" type="checkbox"/>	Refer as FCC KDB 789033 D02, clause E Method PM-G (using an RF average power meter).
<input checked="" type="checkbox"/>	For conducted measurement.
<ul style="list-style-type: none"> 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]) $EIRP_{total} = P_{total} + DG$ 	
<input checked="" type="checkbox"/>	For radiated measurement.
<ul style="list-style-type: none"> 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. 	

Note :

The test is the final test result, It includes antenna /cable loss factor & FSL factor.

The EIRP calculation refer to "KDB 412172 D01 Determining ERP and EIRP v01r01"

EIRP Formula :

EIRP(dBm) = PR(dBm) + LP(FSL factor)

where;

PR(dBm) : Power measurement level include antenna/cable loss

LP : Free Space Loss(dB)

PR Formula :

PR(dBm) = P Meas(dBm) – GR(dBi) + LC(dB)

where;

P Meas(dBm) : Power measurement level

GR(dBi) : Gain of the receive(measurement) antenna (dBi)

LC(dB) : Measurement cable loss (dB)



LP(FSL factor) Formula :

$$LP(dB) = 20 \log F + 20 \log D - 27.54$$

where;

F(MHz) : EUT center frequency

D(m) : Measurement distance

For Example:

Test mode External Radio2 HE20 TxBF 4T1S 5955MHz EIRP measurement

PR Formula :

$$PR(dBm) = -31.99 - 13.59 + 5.32 = -40.26$$

LP(FSL factor) Formula :

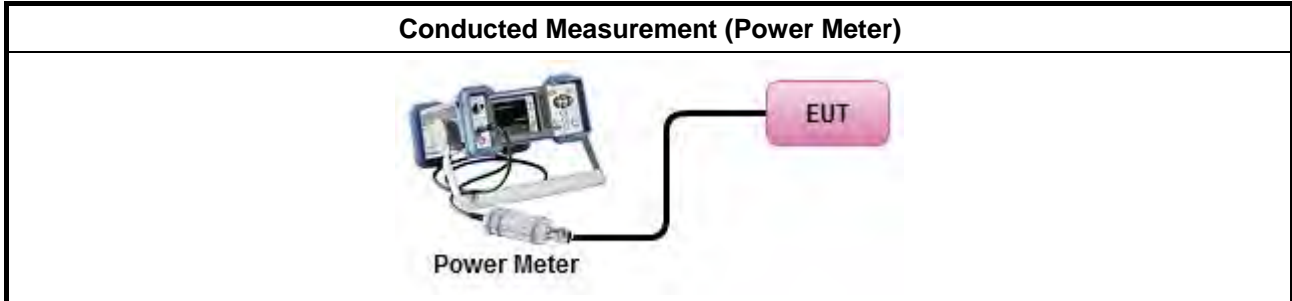
$$LP(dB) = 20 \log(5955) + 20 \log(3) - 27.5 = 57.54$$

EIRP Formula :

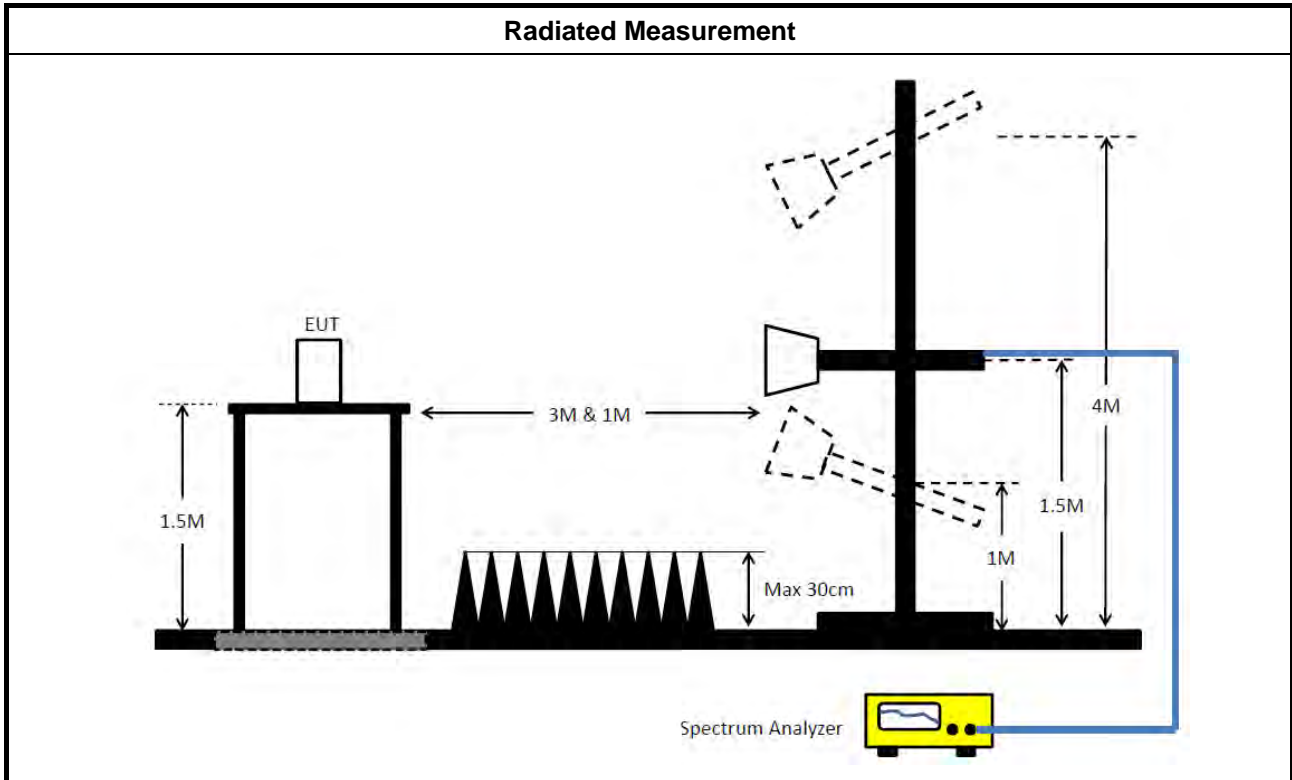
$$EIRP(dBm) = -40.26 + 57.54 = 17.28$$

3.3.4 Test Setup

For Radio 4:



For Radio 3:



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

Refer as Appendix C



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

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

Peak Power Spectral Density (E.I.R.P.) Limit	
UNII Devices	
<input checked="" type="checkbox"/>	For the 5.925 ~ 6.425 GHz band:
<input type="checkbox"/>	<ul style="list-style-type: none"> ▪ 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.
<input checked="" type="checkbox"/>	For the 6.425 ~ 6.525 GHz band:
<input type="checkbox"/>	<ul style="list-style-type: none"> ▪ 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.
<input checked="" type="checkbox"/>	For the 6.525 ~ 6.875 GHz band:
<input type="checkbox"/>	<ul style="list-style-type: none"> ▪ 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.
<input checked="" type="checkbox"/>	For the 6.875 ~ 7.125 GHz band:
<input type="checkbox"/>	<ul style="list-style-type: none"> ▪ 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	
<input type="checkbox"/>	For the 5.925 ~ 7.125 GHz band:
<input type="checkbox"/>	<ul style="list-style-type: none"> ▪ For RLAN devices(Indoor) other than client devices < 5 dBm / MHz. ▪ For client devices(Indoor) < -1 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	
	<ul style="list-style-type: none"> ▪ According to 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:
<input type="checkbox"/>	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]
<input checked="" type="checkbox"/>	Refer as FCC KDB 789033 D02, clause E Method SA-1 (spectral trace averaging).
<input type="checkbox"/>	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
<input checked="" type="checkbox"/>	Refer as FCC KDB 789033 D02, clause E Method SA-2 (spectral trace averaging).
<input type="checkbox"/>	Refer as FCC KDB 789033 D02, clause E Method SA-2 Alt. (RMS detection with slow sweep speed)
<input checked="" type="checkbox"/>	For conducted measurement.
	<ul style="list-style-type: none"> ▪ If the EUT supports multiple transmit chains using options given below: <ul style="list-style-type: none"> <input checked="" type="checkbox"/> 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. <input type="checkbox"/> 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, <input type="checkbox"/> 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]) $EIRP_{total} = PPSD_{total} + DG$
<input checked="" type="checkbox"/>	For radiated measurement.
	<ul style="list-style-type: none"> ▪ Refer as FCC KDB 789033 D02 clause II A.1.F "Antenna-port Conducted versus Radiated Testing" ▪ Refer as ANSI C63.10, clause 6.6 for radiated emissions above 1GHz.



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

Note :

The test is the final test result, It includes antenna /cable loss factor & FSL factor.
The EIRP PSD calculation refer to "KDB 412172 D01 Determining ERP and EIRP v01r01"

EIRP PSD Formula :

$$\text{EIRP PSD(dBm/MHz)} = \text{PR(dBm/MHz)} + \text{LP(FSL factor)}$$

where;

PR(dBm/MHz) : Power measurement level include antenna/cable loss

LP : Free Space Loss(dB)

PR Formula :

$$\text{PR(dBm/MHz)} = \text{P Meas(dBm/MHz)} - \text{GR(dBi)} + \text{LC(dB)}$$

where;

P Meas(dBm/MHz) : PSD measurement level

GR(dBi) : Gain of the receive(measurement) antenna (dBi)

LC(dB) : Measurement cable loss (dB)

LP(FSL factor) Formula :

$$\text{LP(dB)} = 20 \log F + 20 \log D - 27.54$$

where;

F(MHz) : EUT center frequency

D(m) : Measurement distance

For Example:

Test mode External Radio2 HE20 TxBF 4T1S 5955MHz EIRP PSD measurement

PR Formula :

$$\text{PR(dBm/MHz)} = -47.56 - 10.56 + 5 = -52.80$$

LP(FSL factor) Formula :

$$\text{LP(dB)} = 20 \log(5963.76) + 20 \log(3) - 27.5 = 57.55$$

EIRP PSD Formula

$$\text{EIRP PSD(dBm/MHz)} = -52.80 + 57.55 = 4.75$$



3.5 Unwanted Emissions

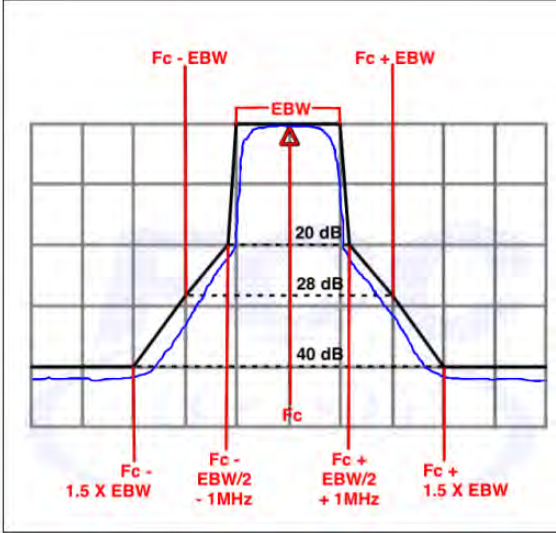
3.5.1 Transmitter Unwanted Emissions Limit

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) = 54dBuV/m at 3m + 9.54dB = 63.54 dBuV/m at 1m.

Un-restricted band emissions above 1GHz Limit	
Frequency	Limit
Any outside the 5.945 – 7.125 GHz emission	<p>e.i.r.p. -27 dBm [68.2 dBuV/m@3m]</p> <p>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) = $68.2\text{dBuV/m at } 3\text{m} + 9.54\text{dB} = 77.74 \text{ dBuV/m at } 1\text{m}$.</p> <p>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.</p>
Frequency	Emission MASK Limit
5.945 – 7.125 GHz	<p>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.</p> <div style="text-align: center;">  </div>



3.5.2 Measuring Instruments

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

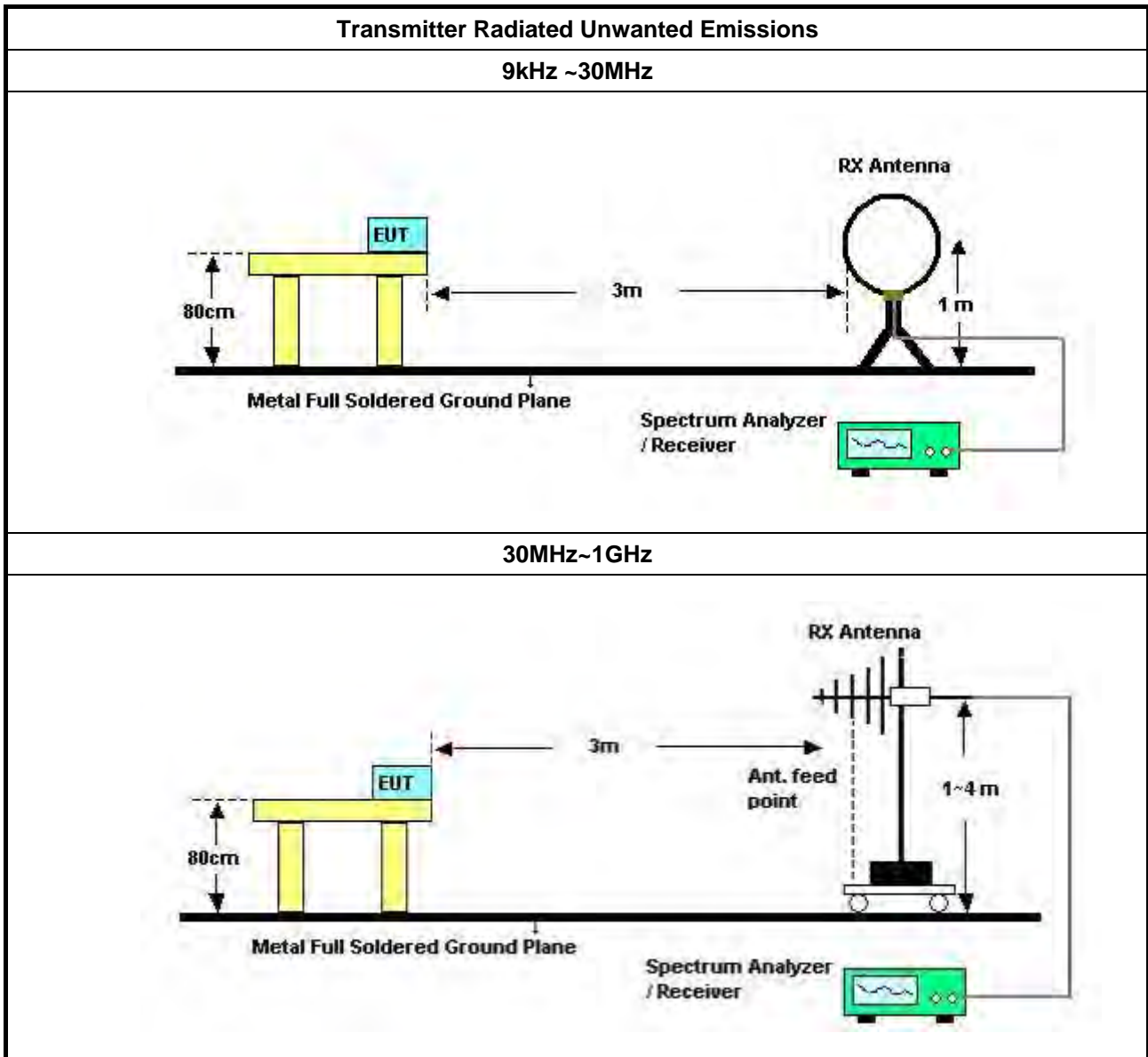
3.5.3 Test Procedures

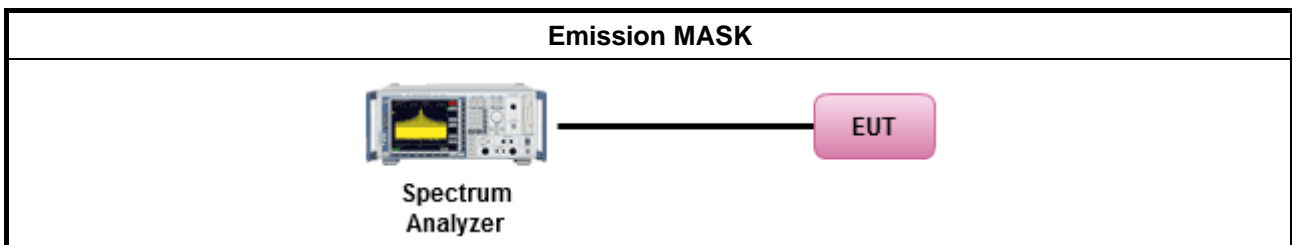
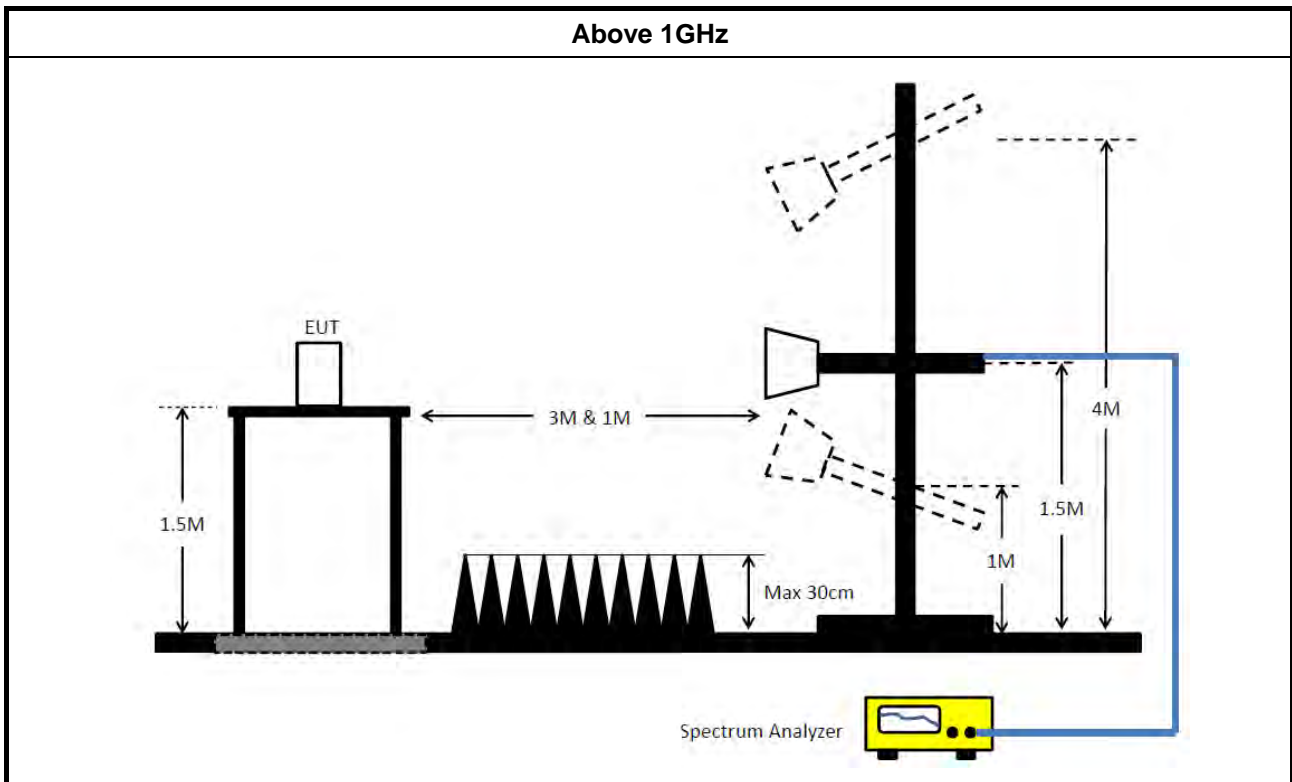
Test Method	
<ul style="list-style-type: none"> ▪ According to KDB 987594 D02 II.G. the unwanted emission measurement procedure shall refer to KDB 789300(except emission MASK). Measurements may be performed at a distance other than the limit distance provided they are not performed in the near field 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). 	
<ul style="list-style-type: none"> ▪ The average emission levels shall be measured in [duty cycle ≥ 98 or duty factor]. 	
<ul style="list-style-type: none"> ▪ For the transmitter unwanted emissions shall be measured using following options below: 	
	<ul style="list-style-type: none"> ▪ Refer as FCC KDB 789033 D02, clause G)2) for unwanted emissions into non-restricted bands.
	<ul style="list-style-type: none"> ▪ Refer as FCC KDB 789033 D02, clause G)1) for unwanted emissions into restricted bands.
	<input checked="" type="checkbox"/> Refer as FCC KDB 789033 D02, G)6) Method AD (Trace Averaging). (For unrestricted band measurement)
	<input type="checkbox"/> Refer as FCC KDB 789033 D02, G)6) Method VB (Reduced VBW).
	<input checked="" type="checkbox"/> Refer as ANSI C63.10, clause 11.12.2.5.3 (Reduced VBW). VBW ≥ 1/T, where T is pulse time.(For restricted band average measurement)
	<input type="checkbox"/> Refer as ANSI C63.10, clause 7.5 average value of pulsed emissions.
	<input checked="" type="checkbox"/> Refer as FCC KDB 789033 D02, clause G)5) measurement procedure peak limit.
	<input type="checkbox"/> Refer as ANSI C63.10, clause 4.1.4.2.2 measurement procedure peak limit.
<ul style="list-style-type: none"> ▪ Refer as FCC KDB 789033 D02, clause G)3)d)ii) for Band edge Integration measurements. 	
<ul style="list-style-type: none"> ▪ For emission MASK shall be measured using following options below: 	
	<input checked="" type="checkbox"/> Refer as FCC draft KDB 987594 D02, J) In-Band Emissions
<ul style="list-style-type: none"> ▪ For radiated measurement. 	
	<ul style="list-style-type: none"> ▪ Refer as ANSI C63.10, clause 6.4 for radiated emissions below 30 MHz and test distance is 3m.
	<ul style="list-style-type: none"> ▪ Refer as ANSI C63.10, clause 6.5 for radiated emissions 30 MHz to 1 GHz and test distance is 3m.
	<ul style="list-style-type: none"> ▪ Refer as ANSI C63.10, clause 6.6 for radiated emissions above 1GHz.
<ul style="list-style-type: none"> ▪ The any unwanted emissions level shall not exceed the fundamental emission level. 	
<ul style="list-style-type: none"> ▪ All amplitude of spurious emissions that are attenuated by more than 20 dB below the permissible value has no need to be reported. 	



Test Method	
<ul style="list-style-type: none">▪ For conducted and cabinet radiation measurement, refer as FCC KDB 789033 D02, clause G)3).	
	<ul style="list-style-type: none">▪ For conducted unwanted emissions into non-restricted bands (relative emission limits). Devices with multiple transmit chains: Refer as FCC KDB 662911, when testing out-of-band and spurious emissions against relative emission limits, tests may be performed on each output individually without summing or adding 10 log(N) if the measurements are made relative to the in-band emissions on the individual outputs.
	<ul style="list-style-type: none">▪ For conducted unwanted emissions into restricted bands (absolute emission limits). Devices with multiple transmit chains using options given below: (1) Measure and sum the spectra across the outputs or (2) Measure and add 10 log(N) dB
	<ul style="list-style-type: none">▪ For FCC KDB 662911 The methodology described here may overestimate array gain, thereby resulting in apparent failures to satisfy the out-of-band limits even if the device is actually compliant. In such cases, compliance may be demonstrated by performing radiated tests around the frequencies at which the apparent failures occurred.

3.5.4 Test Setup





3.5.5 Measurement Results Calculation

The measured Level is calculated using:

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

3.5.6 Transmitter Unwanted Emissions (Below 30MHz)

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

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

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

3.5.7 Test Result of Transmitter Unwanted Emissions

Refer as Appendix E

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.

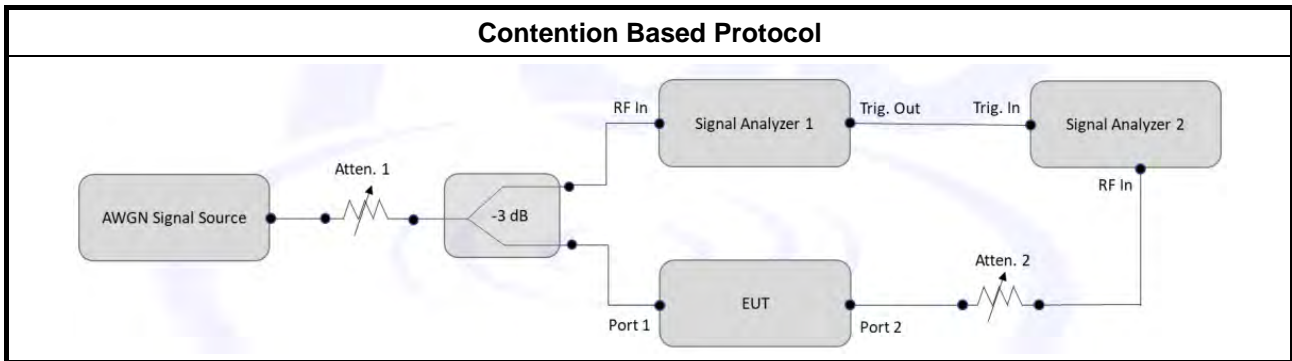
3.6.2 Measuring Instruments

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

3.6.3 Test Procedures

Test Method	
<input type="checkbox"/>	For Contention Based Protocol shall be measured using following options below:
<input checked="" type="checkbox"/>	Refer as FCC draft KDB 987594 D02, I) In-Band Emissions

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
EMI Receiver	Agilent	N9038A	My52260123	9kHz ~ 8.4GHz	Mar. 03, 2021	Mar. 02, 2022	Conduction (CO01-CB)
EMI Receiver	Agilent	N9038A	My52260123	9kHz ~ 8.4GHz	Feb. 22, 2022	Feb. 21, 2023	Conduction (CO01-CB)
LISN	F.C.C.	FCC-LISN-50-16-2	04083	150kHz ~ 100MHz	Jan. 06, 2021	Jan. 05, 2022	Conduction (CO01-CB)
LISN	F.C.C.	FCC-LISN-50-16-2	04083	150kHz ~ 100MHz	Feb. 09, 2022	Feb. 08, 2023	Conduction (CO01-CB)
LISN	Schwarzbeck	NSLK 8127	8127647	9kHz ~ 30MHz	Mar. 07, 2021	Mar. 06, 2022	Conduction (CO01-CB)
LISN	Schwarzbeck	NSLK 8127	8127650	9kHz ~ 30MHz	Jan. 07, 2022	Jan. 06, 2023	Conduction (CO01-CB)
Pulse Limiter	Rohde&Schwarz	ESH3-Z2	100430	9kHz ~ 30MHz	Jan. 30, 2021	Jan. 29, 2022	Conduction (CO01-CB)
Pulse Limiter	Rohde&Schwarz	ESH3-Z2	100430	9kHz ~ 30MHz	Feb. 10, 2022	Feb. 09, 2023	Conduction (CO01-CB)
COND Cable	Woken	Cable	Low cable-CO01	9kHz ~ 30MHz	May 19, 2021	May 18, 2022	Conduction (CO01-CB)
Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Conduction (CO01-CB)
Loop Antenna	Teseq	HLA 6120	24155	9kHz - 30 MHz	Apr. 14, 2021	Apr. 13, 2022	Radiation (03CH03-CB)
3m Semi Anechoic Chamber NSA	TDK	SAC-3M	03CH03-CB	30 MHz ~ 1 GHz	Jan. 26, 2022	Jan. 25, 2023	Radiation (03CH03-CB)
Bilog Antenna with 6 dB attenuator	Schaffner & EMCI	CBL6112B & N-6-06	2928 & AT-N0608	20MHz ~ 2GHz	Feb. 21, 2022	Feb. 20, 2023	Radiation (03CH03-CB)
Pre-Amplifier	Agilent	8447D	2944A10259	9kHz ~ 1.3GHz	Jan. 10, 2022	Jan. 09, 2023	Radiation (03CH03-CB)
Spectrum Analyzer	R&S	FSP40	100019	9kHz ~ 40GHz	Jun. 04, 2021	Jun. 03, 2022	Radiation (03CH03-CB)
EMI Test Receiver	R&S	ESCS	826547/017	9kHz ~ 2.75GHz	Jun. 21, 2021	Jun. 20, 2022	Radiation (03CH03-CB)
RF Cable-low	Woken	RG402	Low Cable-02+29	30MHz ~ 1GHz	Oct. 04, 2021	Oct. 03, 2022	Radiation (03CH03-CB)
RF Cable-high	Woken	RG402	High Cable-20+29	1GHz ~ 18GHz	Oct. 04, 2021	Oct. 03, 2022	Radiation (03CH03-CB)
RF Cable-high	Woken	RG402	High Cable-29	1GHz ~ 18GHz	Oct. 04, 2021	Oct. 03, 2022	Radiation (03CH03-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH03-CB)
Loop Antenna	Teseq	HLA 6120	24155	9kHz - 30 MHz	Apr. 14, 2021	Apr. 13, 2022	Radiation (03CH05-CB)



Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
3m Semi Anechoic Chamber NSA	TDK	SAC-3M	03CH05-CB	30 MHz ~ 1 GHz	Aug. 09, 2021	Aug. 08, 2022	Radiation (03CH05-CB)
3m Semi Anechoic Chamber VSWR	TDK	SAC-3M	03CH05-CB	1GHz ~18GHz 3m	Nov. 07, 2021	Nov. 06, 2022	Radiation (03CH05-CB)
Bilog Antenna with 6dB Attenuator	TESEQ & EMCI	CBL 6112D & N-6-06	35236 & AT-N0610	30MHz ~ 2GHz	Mar. 26, 2021	Mar. 25, 2022	Radiation (03CH05-CB)
Horn Antenna	SCHWARZBECK	BBHA9120D	BBHA 9120 D-1291	1GHz~18GHz	Oct. 14, 2021	Oct. 13, 2022	Radiation (03CH05-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Aug. 05, 2021	Aug. 04, 2022	Radiation (03CH05-CB)
Pre-Amplifier	EMCI	EMC330N	980331	20MHz ~ 3GHz	Apr. 27, 2021	Apr. 26, 2022	Radiation (03CH05-CB)
Pre-Amplifier	EMCI	EMC12630SE	980287	1GHz ~ 26.5GHz	Jul. 02, 2021	Jul. 01, 2022	Radiation (03CH05-CB)
Pre-Amplifier	MITEQ	TTA1840-35-HG	1864479	18GHz ~ 40GHz	Jul. 13, 2021	Jul. 12, 2022	Radiation (03CH05-CB)
Signal Analyzer	R&S	FSV40	101903	9kHz ~ 40GHz	Mar. 22, 2021	Mar. 21, 2022	Radiation (03CH05-CB)
Spectrum Analyzer	R&S	FSP40	100304	9kHz ~ 40GHz	Mar. 14, 2022	Mar. 13, 2023	Radiation (03CH05-CB)
EMI Test Receiver	R&S	ESCS	826547/017	9kHz ~ 2.75GHz	Jun. 21, 2021	Jun. 20, 2022	Radiation (03CH05-CB)
RF Cable-low	Woken	RG402	Low Cable-04+23	30MHz~1GHz	Oct. 13, 2021	Oct. 12, 2022	Radiation (03CH05-CB)
RF Cable-high	Woken	RG402	High Cable-28	1GHz~18GHz	Oct. 13, 2021	Oct. 12, 2022	Radiation (03CH05-CB)
RF Cable-high	Woken	RG402	High Cable-04+28	1GHz~18GHz	Oct. 13, 2021	Oct. 12, 2022	Radiation (03CH05-CB)
RF Cable-high	Woken	RG402	High Cable-40G#1	18GHz ~ 40 GHz	Jul. 15, 2021	Jul. 14, 2022	Radiation (03CH05-CB)
RF Cable-high	Woken	RG402	High Cable-40G#2	18GHz ~ 40 GHz	Jul. 15, 2021	Jul. 14, 2022	Radiation (03CH05-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH05-CB)
3m Semi Anechoic Chamber VSWR	TDK	SAC-3M	03CH01-CB	1GHz ~18GHz 3m	May 07, 2021	May 06, 2022	Radiation (03CH01-CB)
Horn Antenna	ETS-LINDGREN	3115	00075790	750MHz ~ 18GHz	Nov. 06, 2020	Nov. 05, 2021	Radiation (03CH01-CB)
Horn Antenna	ETS-LINDGREN	3115	00075790	750MHz ~ 18GHz	Nov. 06, 2021	Nov. 05, 2022	Radiation (03CH01-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Aug. 05, 2021	Aug. 04, 2022	Radiation (03CH01-CB)



Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
Pre-Amplifier	Agilent	8449B	3008A02121	1GHz ~ 26.5GHz	May 20, 2021	May 19, 2022	Radiation (03CH01-CB)
Pre-Amplifier	MITEQ	TTA1840-35-H G	1864479	18GHz ~ 40GHz	Jul. 13, 2021	Jul. 12, 2022	Radiation (03CH01-CB)
Spectrum Analyzer	R&S	FSP40	100056	9kHz ~ 40GHz	May 03, 2021	May 02, 2022	Radiation (03CH01-CB)
RF Cable-high	Woken	RG402	High Cable-16	1 GHz ~ 18 GHz	Oct. 04, 2021	Oct. 03, 2022	Radiation (03CH01-CB)
RF Cable-high	Woken	RG402	High Cable-16+17	1 GHz ~ 18 GHz	Oct. 04, 2021	Oct. 03, 2022	Radiation (03CH01-CB)
RF Cable-high	Woken	RG402	High Cable-40G#1	18GHz ~ 40 GHz	Jul. 15, 2021	Jul. 14, 2022	Radiation (03CH01-CB)
RF Cable-high	Woken	RG402	High Cable-40G#2	18GHz ~ 40 GHz	Jul. 15, 2021	Jul. 14, 2022	Radiation (03CH01-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH01-CB)
3m Semi Anechoic Chamber VSWR	TDK	SAC-3M	03CH04-CB	1GHz ~18GHz 3m	Feb. 25, 2021	Feb. 24, 2022	Radiation (03CH04-CB)
3m Semi Anechoic Chamber VSWR	TDK	SAC-3M	03CH04-CB	1GHz ~18GHz 3m	Feb. 24, 2022	Feb. 23, 2023	Radiation (03CH04-CB)
Horn Antenna	ETS · Lindgren	3115	00143147	750MHz~18GHz	Oct. 23, 2020	Oct. 22, 2021	Radiation (03CH04-CB)
Horn Antenna	COM-POWER	AH-118	071028	1GHz ~ 18GHz	Jun. 23, 2021	Jun. 22, 2022	Radiation (03CH04-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Aug. 05, 2021	Aug. 04, 2022	Radiation (03CH04-CB)
Pre-Amplifier	Agilent	83017A	MY53270063	0.5GHz ~ 26.5GHz	Jul. 12, 2021	Jul. 11, 2022	Radiation (03CH04-CB)
Pre-Amplifier	MITEQ	TTA1840-35-H G	1864479	18GHz ~ 40GHz	Jul. 13, 2021	Jul. 12, 2022	Radiation (03CH04-CB)
Signal Analyzer	R&S	FSV40	101904	9kHz ~ 40GHz	Apr. 15, 2021	Apr. 14, 2022	Radiation (03CH04-CB)
RF Cable-high	Woken	RG402	High Cable-21	1GHz - 18GHz	Oct. 04, 2021	Oct. 03, 2022	Radiation (03CH04-CB)
RF Cable-high	Woken	RG402	High Cable-21+67	1GHz - 18GHz	Oct. 04, 2021	Oct. 03, 2022	Radiation (03CH04-CB)
RF Cable-high	Woken	RG402	High Cable-40G#1	18GHz ~ 40 GHz	Jul. 15, 2021	Jul. 14, 2022	Radiation (03CH04-CB)
RF Cable-high	Woken	RG402	High Cable-40G#2	18GHz ~ 40 GHz	Jul. 15, 2021	Jul. 14, 2022	Radiation (03CH04-CB)



Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH04-CB)
Spectrum analyzer	R&S	FSV40	100979	9kHz~40GHz	May 21, 2021	May 20, 2022	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-06	1 GHz – 26.5 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-07	1 GHz –26.5 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-08	1 GHz –26.5 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-09	1 GHz –26.5 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-10	1 GHz –26.5 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-30	1 GHz –26.5 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (TH01-CB)
Switch	SPTCB	SP-SWI	SWI-01	1 GHz –26.5 GHz	Dec. 13, 2021	Dec. 12, 2022	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	SWI-01-P1	1 GHz –26.5 GHz	Dec. 13, 2021	Dec. 12, 2022	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	SWI-01-P2	1 GHz –26.5 GHz	Dec. 13, 2021	Dec. 12, 2022	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	SWI-01-P3	1 GHz –26.5 GHz	Dec. 13, 2021	Dec. 12, 2022	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	SWI-01-P4	1 GHz –26.5 GHz	Dec. 13, 2021	Dec. 12, 2022	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	SWI-01-P5	1 GHz –26.5 GHz	Dec. 13, 2021	Dec. 12, 2022	Conducted (TH01-CB)
Power Sensor	Anritsu	MA2411B	1339408	300MHz~40GHz	Sep. 06, 2021	Sep. 05, 2022	Conducted (TH01-CB)
Power Meter	Anritsu	ML2495A	1517009	300MHz~40GHz	Sep. 06, 2021	Sep. 05, 2022	Conducted (TH01-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Conducted (TH01-CB)
Signal Analyzer	R&S	FSV40	101904	9kHz ~ 40GHz	Apr. 15, 2021	Apr. 14, 2022	Conducted (TH03-CB)
Power Sensor	Anritsu	MA2411B	1726195	300MHz~40GHz	Aug. 22, 2021	Aug. 21, 2022	Conducted (TH03-CB)
Power Meter	Anritsu	ML2495A	1035008	300MHz~40GHz	Aug. 22, 2021	Aug. 21, 2022	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-11	1 GHz –18 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-12	1 GHz –18 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-13	1 GHz –18 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-14	1 GHz –18 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (TH03-CB)



Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
RF Cable-high	Woken	RG402	High Cable-15	1 GHz – 18 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (TH03-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Conducted (TH03-CB)
Spectrum Analyzer	R&S	FSV40	101025	9kHz ~ 40GHz	Nov. 06, 2021	Nov. 05, 2022	Conducted (DF02-CB)
VEKTOR SIGNAL GENERATOR	R&S	SMW200A	109426	100KHz- 7.5GHz	Dec. 28, 2021	Dec. 27, 2022	Conducted (DF02-CB)
RF Power Divider	STI	2 Way	DV-2way -07	1GHz ~ 8GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (DF02-CB)
RF Power Divider	STI	2 Way	DV-2way -08	1GHz ~ 8GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (DF02-CB)
RF Cable-high	Woken	RG402	High Cable-61	1 GHz – 18 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (DF02-CB)
RF Cable-high	Woken	RG402	High Cable-62	1 GHz – 18 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (DF02-CB)
RF Cable-high	Woken	RG402	High Cable-63	1 GHz – 18 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (DF02-CB)
RF Cable-high	Woken	RG402	High Cable-66	1 GHz – 18 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (DF02-CB)

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

N.C.R. means Non-Calibration required.

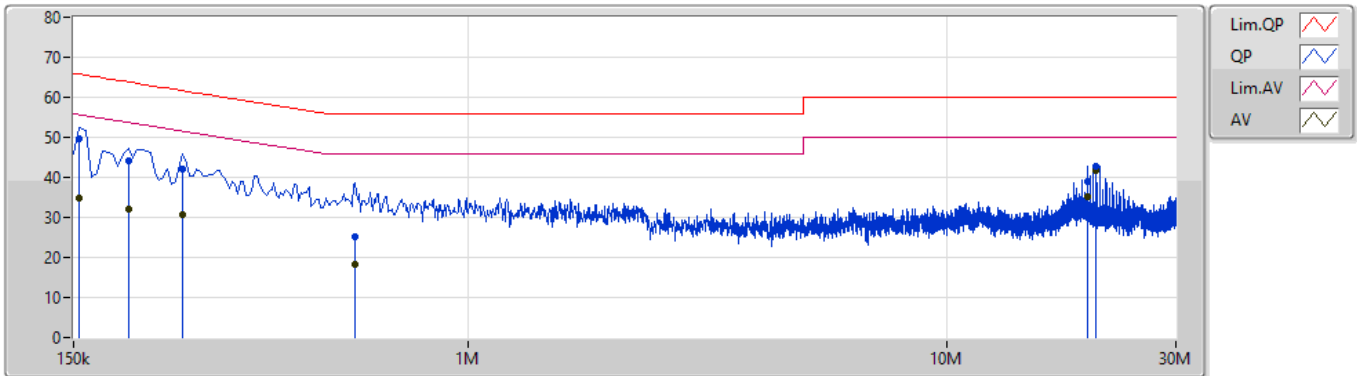


Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 3	Pass	AV	20.364M	41.62	50.00	-8.38	Line

Mode 3

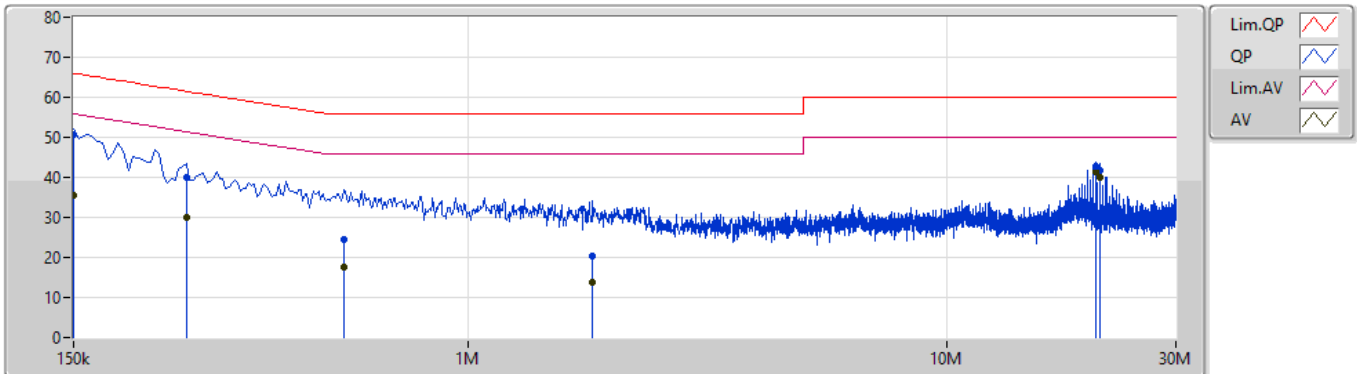
04/01/2022



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)
QP	154.5k	49.68	65.75	-16.07	9.89	Line	-	39.79	0.04	0.04	9.81
AV	154.5k	34.72	55.75	-21.03	9.89	Line	-	24.83	0.04	0.04	9.81
QP	195k	44.22	63.82	-19.60	9.89	Line	-	34.33	0.04	0.04	9.81
AV	195k	31.97	53.82	-21.85	9.89	Line	-	22.08	0.04	0.04	9.81
QP	253.5k	42.12	61.64	-19.52	9.89	Line	-	32.23	0.04	0.04	9.81
AV	253.5k	30.85	51.64	-20.79	9.89	Line	-	20.96	0.04	0.04	9.81
QP	582k	25.17	56.00	-30.83	9.91	Line	-	15.26	0.05	0.04	9.82
AV	582k	18.21	46.00	-27.79	9.91	Line	-	8.30	0.05	0.04	9.82
QP	19.64M	38.97	60.00	-21.03	10.53	Line	-	28.44	0.32	0.22	9.99
AV	19.64M	35.23	50.00	-14.77	10.53	Line	-	24.70	0.32	0.22	9.99
QP	20.364M	42.82	60.00	-17.18	10.54	Line	-	32.28	0.32	0.22	10.00
AV	20.364M	41.62	50.00	-8.38	10.54	Line	"Worst"	31.08	0.32	0.22	10.00

Mode 3

04/01/2022



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)
QP	150k	50.67	66.00	-15.33	9.88	Neutral	-	40.79	0.03	0.04	9.81
AV	150k	35.39	56.00	-20.61	9.88	Neutral	-	25.51	0.03	0.04	9.81
QP	258k	40.07	61.49	-21.42	9.88	Neutral	-	30.19	0.03	0.04	9.81
AV	258k	30.07	51.49	-21.42	9.88	Neutral	-	20.19	0.03	0.04	9.81
QP	550.5k	24.54	56.00	-31.46	9.90	Neutral	-	14.64	0.04	0.04	9.82
AV	550.5k	17.54	46.00	-28.46	9.90	Neutral	-	7.64	0.04	0.04	9.82
QP	1.82M	20.34	56.00	-35.66	9.96	Neutral	-	10.38	0.07	0.07	9.82
AV	1.82M	13.69	46.00	-32.31	9.96	Neutral	-	3.73	0.07	0.07	9.82
QP	20.364M	42.77	60.00	-17.23	10.52	Neutral	-	32.25	0.30	0.22	10.00
AV	20.364M	41.55	50.00	-8.45	10.52	Neutral	"Worst"	31.03	0.30	0.22	10.00
QP	20.85M	41.88	60.00	-18.12	10.54	Neutral	-	31.34	0.31	0.23	10.00
AV	20.85M	40.02	50.00	-9.98	10.54	Neutral	-	29.48	0.31	0.23	10.00

Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.925-6.425GHz	-	-	-	-	-
802.11ax HEW20_Nss1,(MCS0)_1TX	24.75M	19.28M	19M3D1D	24.3M	19.25M
802.11ax HEW40_Nss1,(MCS0)_1TX	42.54M	38.141M	38M1D1D	41.34M	38.081M
802.11ax HEW80_Nss1,(MCS0)_1TX	84.12M	78.081M	78M1D1D	82.2M	77.841M
802.11ax HEW160_Nss1,(MCS0)_1TX	277.92M	158.561M	159MD1D	208.08M	158.081M
6.425-6.525GHz	-	-	-	-	-
802.11ax HEW20_Nss1,(MCS0)_1TX	25.86M	19.25M	19M2D1D	23.01M	19.22M
802.11ax HEW40_Nss1,(MCS0)_1TX	44.16M	38.141M	38M1D1D	41.58M	38.081M
802.11ax HEW80_Nss1,(MCS0)_1TX	84.48M	77.961M	78MOD1D	82.8M	77.841M
802.11ax HEW160_Nss1,(MCS0)_1TX	266.64M	159.04M	159MD1D	266.64M	159.04M
6.525-6.875GHz	-	-	-	-	-
802.11ax HEW20_Nss1,(MCS0)_1TX	26.58M	19.28M	19M3D1D	22.62M	19.19M
802.11ax HEW40_Nss1,(MCS0)_1TX	43.5M	38.141M	38M1D1D	41.76M	38.081M
802.11ax HEW80_Nss1,(MCS0)_1TX	86.64M	78.081M	78M1D1D	82.92M	77.841M
802.11ax HEW160_Nss1,(MCS0)_1TX	344.16M	184.228M	184MD1D	291.6M	161.199M
6.875-7.125GHz	-	-	-	-	-
802.11ax HEW20_Nss1,(MCS0)_1TX	25.98M	19.28M	19M3D1D	21.84M	19.25M
802.11ax HEW40_Nss1,(MCS0)_1TX	43.26M	38.201M	38M2D1D	41.58M	38.141M
802.11ax HEW80_Nss1,(MCS0)_1TX	129.36M	79.04M	79MOD1D	84.24M	78.201M
802.11ax HEW160_Nss1,(MCS0)_1TX	300.72M	159.52M	160MD1D	300.72M	159.52M

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)
802.11ax HEW20_Nss1,(MCS0)_1TX	-	-	-	-
5955MHz	Pass	Inf	24.57M	19.25M
6175MHz	Pass	Inf	24.3M	19.28M
6415MHz	Pass	Inf	24.75M	19.28M
6435MHz	Pass	Inf	25.5M	19.25M
6475MHz	Pass	Inf	25.86M	19.25M
6515MHz	Pass	Inf	23.01M	19.22M
6535MHz	Pass	Inf	22.62M	19.25M
6695MHz	Pass	Inf	25.26M	19.25M
6855MHz	Pass	Inf	26.58M	19.28M
6875MHz Straddle 6.525-6.875GHz	Pass	Inf	23.28M	19.19M
6895MHz	Pass	Inf	24.24M	19.25M
6995MHz	Pass	Inf	21.84M	19.25M
7095MHz	Pass	Inf	25.98M	19.28M
802.11ax HEW40_Nss1,(MCS0)_1TX	-	-	-	-
5965MHz	Pass	Inf	41.7M	38.081M
6165MHz	Pass	Inf	42.54M	38.141M
6405MHz	Pass	Inf	41.34M	38.141M
6445MHz	Pass	Inf	44.16M	38.141M
6485MHz	Pass	Inf	41.58M	38.081M
6525MHz Straddle 6.425-6.525GHz	Pass	Inf	41.64M	38.081M
6565MHz	Pass	Inf	41.76M	38.081M
6685MHz	Pass	Inf	42.18M	38.081M
6845MHz	Pass	Inf	43.5M	38.141M
6885MHz Straddle 6.525-6.875GHz	Pass	Inf	41.94M	38.141M
6925MHz	Pass	Inf	43.26M	38.141M
7005MHz	Pass	Inf	42.54M	38.201M
7085MHz	Pass	Inf	41.58M	38.141M
802.11ax HEW80_Nss1,(MCS0)_1TX	-	-	-	-
5985MHz	Pass	Inf	82.8M	77.961M
6145MHz	Pass	Inf	84.12M	77.841M
6385MHz	Pass	Inf	82.2M	78.081M
6465MHz	Pass	Inf	82.8M	77.961M
6545MHz Straddle 6.425-6.525GHz	Pass	Inf	84.48M	77.841M
6625MHz	Pass	Inf	84M	77.961M
6705MHz	Pass	Inf	82.92M	77.961M
6785MHz	Pass	Inf	83.64M	77.841M
6865MHz Straddle 6.525-6.875GHz	Pass	Inf	86.64M	78.081M
6945MHz	Pass	Inf	84.24M	78.201M
7025MHz	Pass	Inf	129.36M	79.04M
802.11ax HEW160_Nss1,(MCS0)_1TX	-	-	-	-
6025MHz	Pass	Inf	208.08M	158.321M
6185MHz	Pass	Inf	277.92M	158.561M
6345MHz	Pass	Inf	246M	158.081M
6505MHz Straddle 6.425-6.525GHz	Pass	Inf	266.64M	159.04M
6665MHz	Pass	Inf	291.6M	161.199M
6825MHz Straddle 6.525-6.875GHz	Pass	Inf	344.16M	184.228M
6985MHz	Pass	Inf	300.72M	159.52M

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

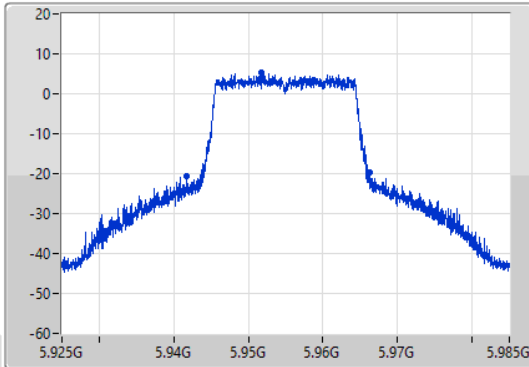
802.11ax HEW20_Nss1,(MCS0)_1TX

EBW

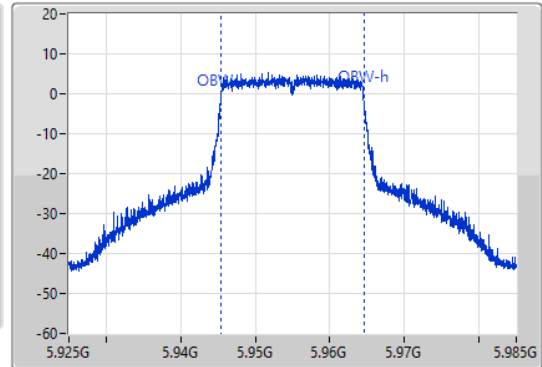
5955MHz

22/02/2022

CF
5.955GHz
Span
60MHz
RBW
300kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak
Port 1



CF
5.955GHz
Span
60MHz
RBW
300kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
24.57M	5.94174G	5.96631G	19.25M	5.945345G	5.964595G	Inf	1

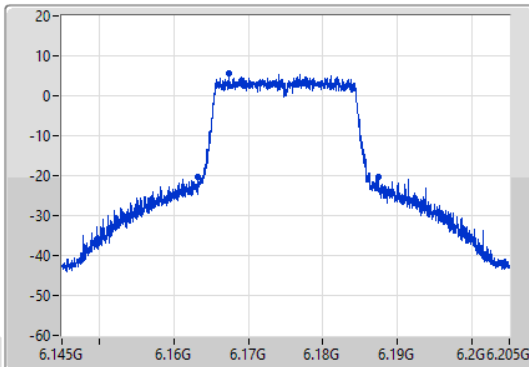
802.11ax HEW20_Nss1,(MCS0)_1TX

EBW

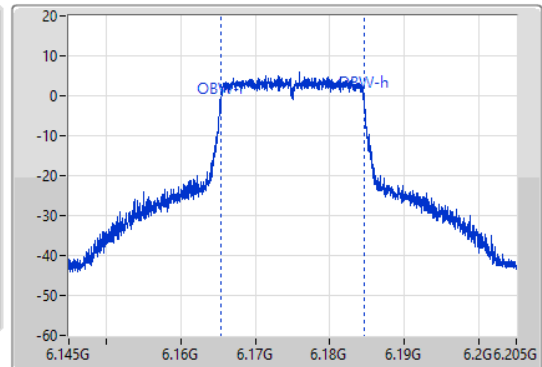
6175MHz

22/02/2022

CF
6.175GHz
Span
60MHz
RBW
300kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak
Port 1



CF
6.175GHz
Span
60MHz
RBW
300kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



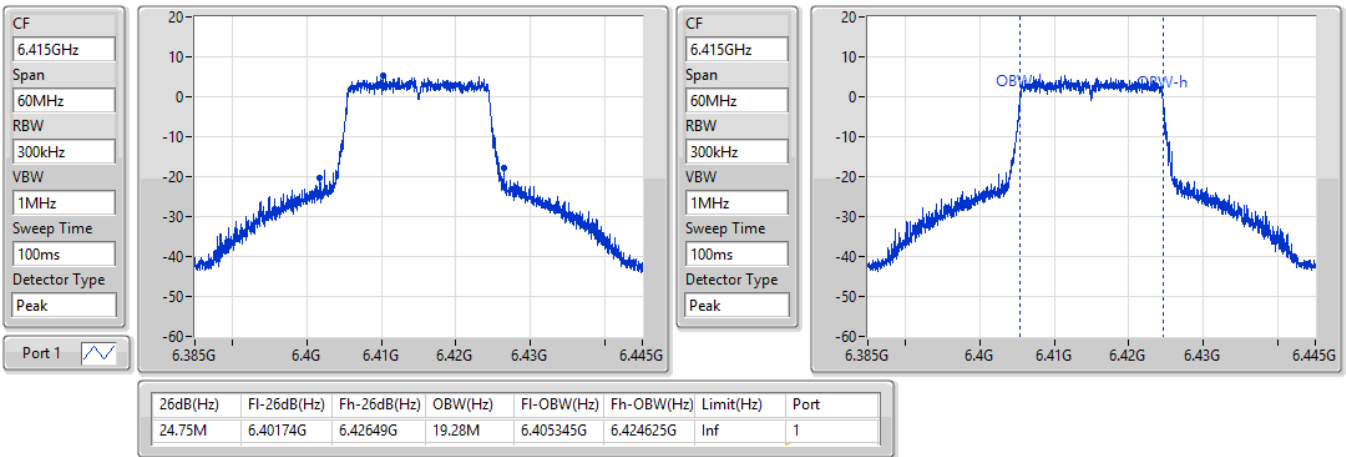
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
24.3M	6.16318G	6.18748G	19.28M	6.165315G	6.184595G	Inf	1

802.11ax HEW20_Nss1,(MCS0)_1TX

EBW

6415MHz

22/02/2022

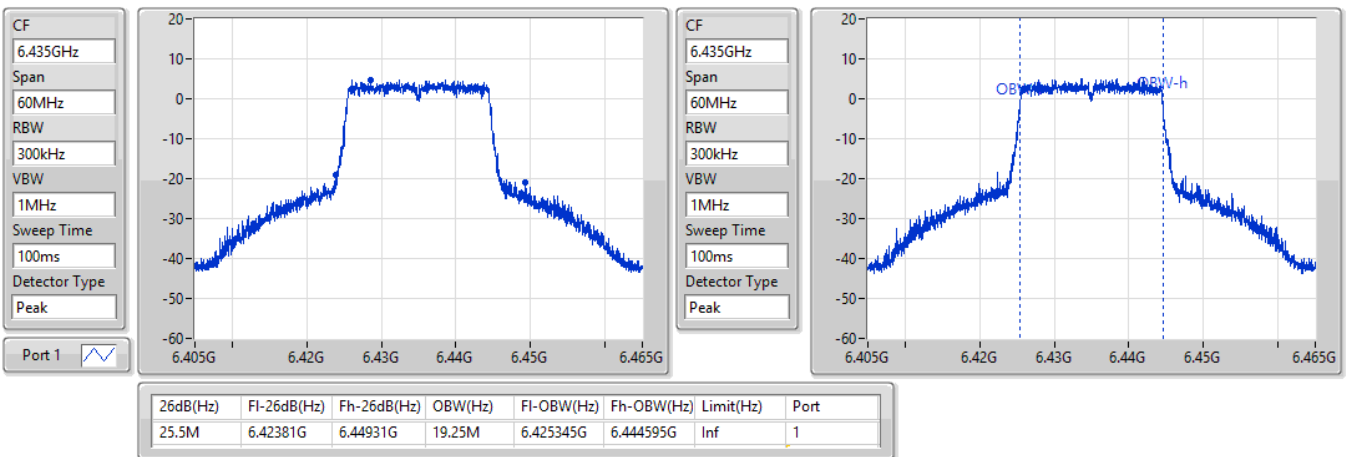


802.11ax HEW20_Nss1,(MCS0)_1TX

EBW

6435MHz

22/02/2022

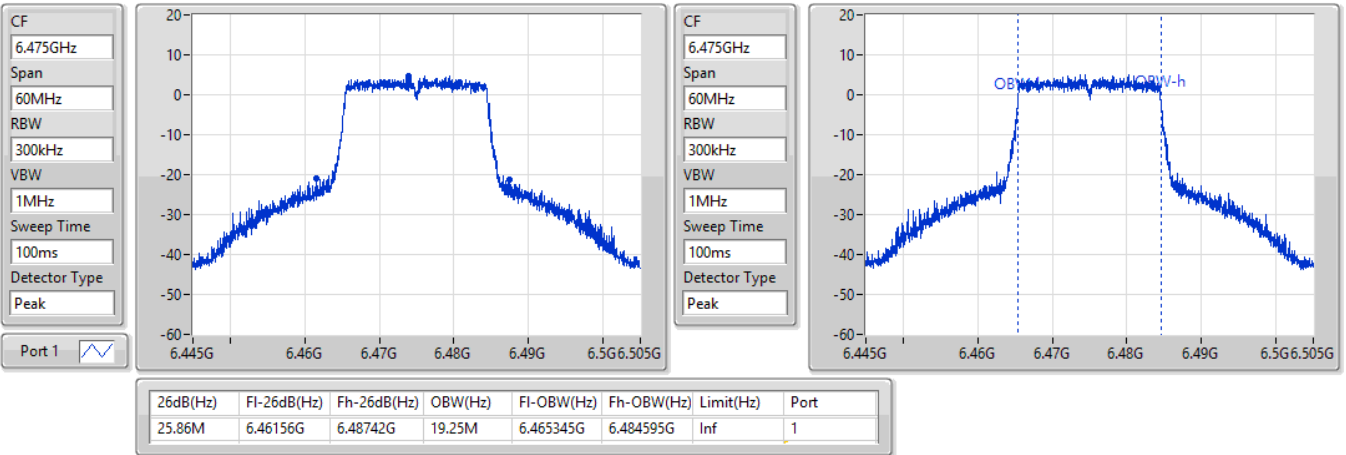


802.11ax HEW20_Nss1,(MCS0)_1TX

EBW

6475MHz

22/02/2022

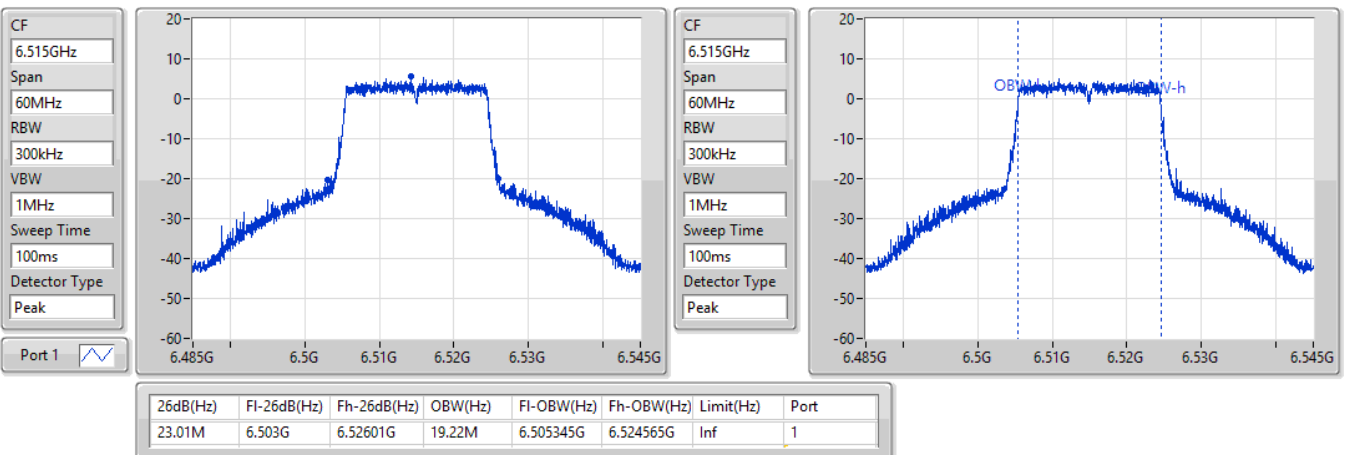


802.11ax HEW20_Nss1,(MCS0)_1TX

EBW

6515MHz

22/02/2022



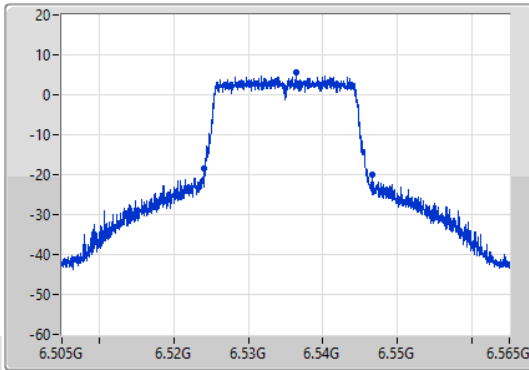
802.11ax HEW20_Nss1,(MCS0)_1TX

EBW

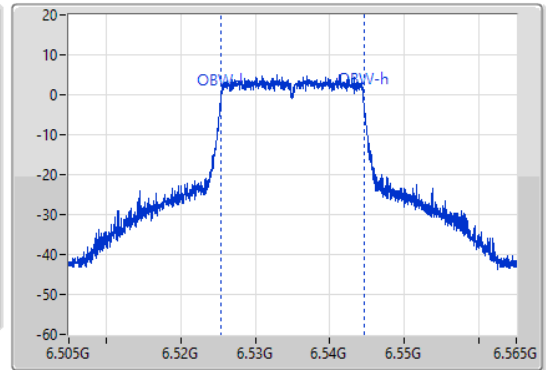
6535MHz

22/02/2022

CF
6.535GHz
Span
60MHz
RBW
300kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak
Port 1



CF
6.535GHz
Span
60MHz
RBW
300kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
22.62M	6.52405G	6.54667G	19.25M	6.525315G	6.544565G	Inf	1

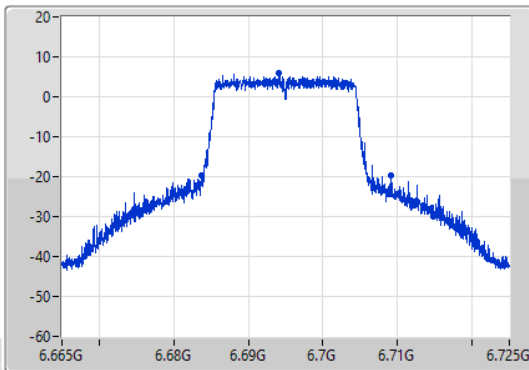
802.11ax HEW20_Nss1,(MCS0)_1TX

EBW

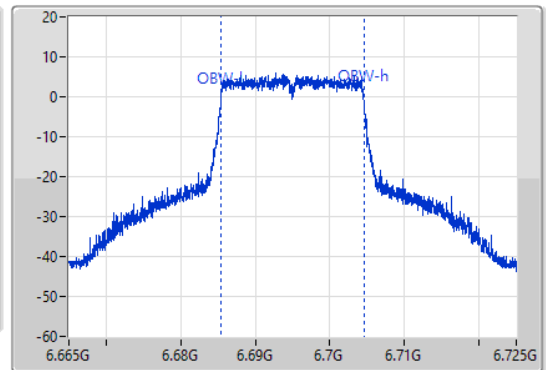
6695MHz

22/02/2022

CF
6.695GHz
Span
60MHz
RBW
300kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak
Port 1



CF
6.695GHz
Span
60MHz
RBW
300kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
25.26M	6.68378G	6.70904G	19.25M	6.685345G	6.704595G	Inf	1

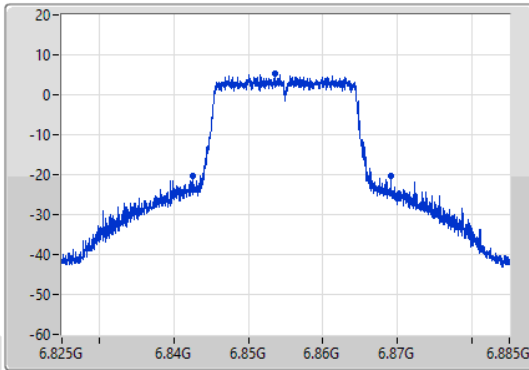
802.11ax HEW20_Nss1,(MCS0)_1TX

EBW

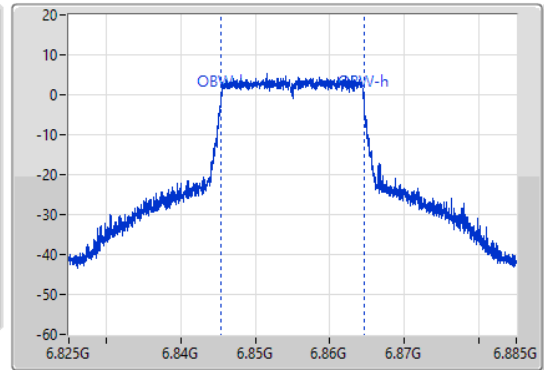
6855MHz

22/02/2022

CF
6.855GHz
Span
60MHz
RBW
300kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak
Port 1



CF
6.855GHz
Span
60MHz
RBW
300kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
26.58M	6.84258G	6.86916G	19.28M	6.845315G	6.864595G	Inf	1

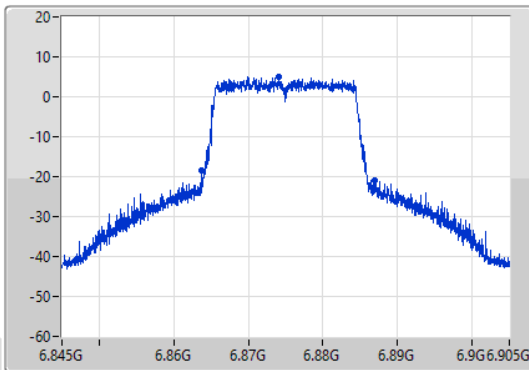
802.11ax HEW20_Nss1,(MCS0)_1TX

EBW

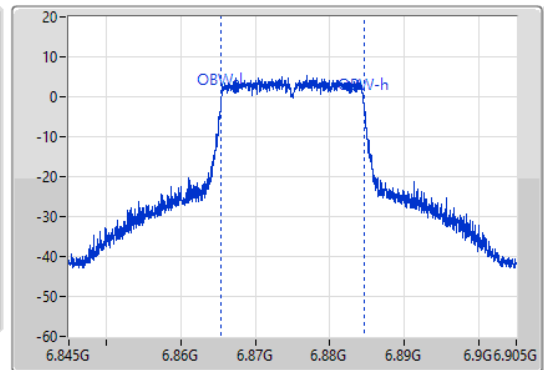
6875MHz Straddle 6.525-6.875GHz

22/02/2022

CF
6.875GHz
Span
60MHz
RBW
300kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak
Port 1



CF
6.875GHz
Span
60MHz
RBW
300kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
23.28M	6.86375G	6.88703G	19.19M	6.865375G	6.884565G	Inf	1

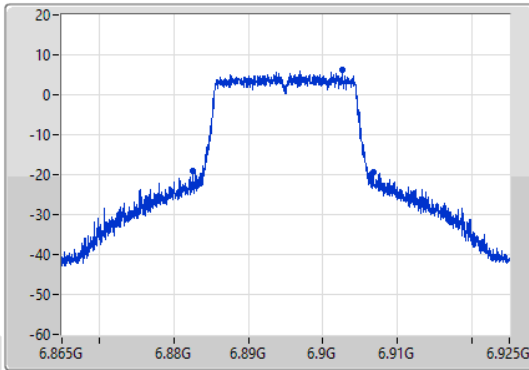
802.11ax HEW20_Nss1,(MCS0)_1TX

EBW

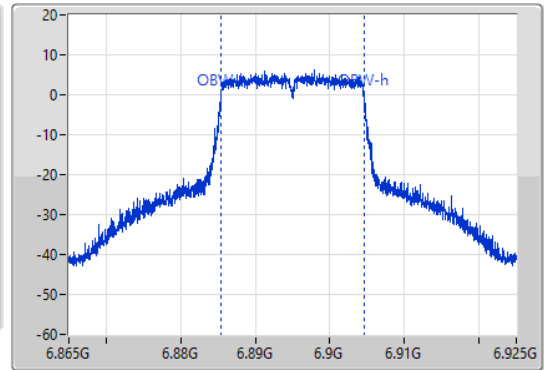
6895MHz

22/02/2022

CF
6.895GHz
Span
60MHz
RBW
300kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak
Port 1



CF
6.895GHz
Span
60MHz
RBW
300kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
24.24M	6.88249G	6.90673G	19.25M	6.885345G	6.904595G	Inf	1

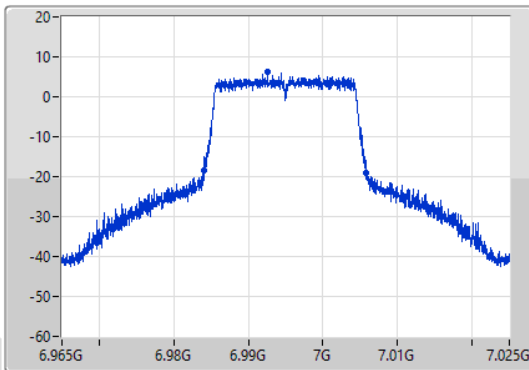
802.11ax HEW20_Nss1,(MCS0)_1TX

EBW

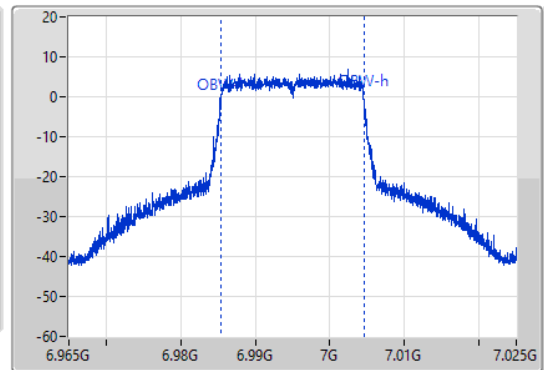
6995MHz

22/02/2022

CF
6.995GHz
Span
60MHz
RBW
300kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak
Port 1



CF
6.995GHz
Span
60MHz
RBW
300kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
21.84M	6.98399G	7.00583G	19.25M	6.985315G	7.004565G	Inf	1

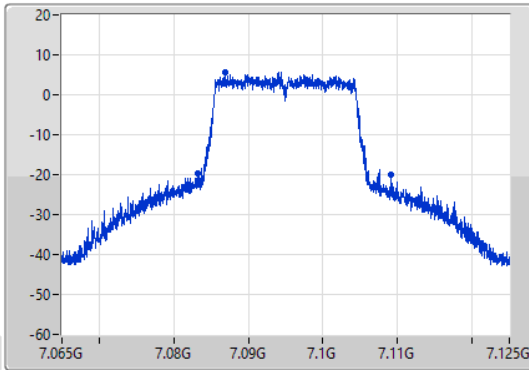
802.11ax HEW20_Nss1,(MCS0)_1TX

EBW

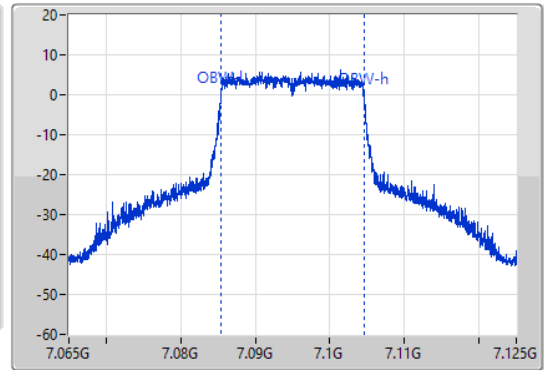
7095MHz

22/02/2022

CF
7.095GHz
Span
60MHz
RBW
300kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak
Port 1



CF
7.095GHz
Span
60MHz
RBW
300kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
25.98M	7.08321G	7.10919G	19.28M	7.085315G	7.104595G	Inf	1

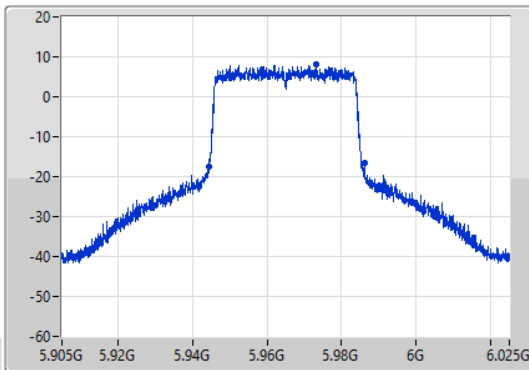
802.11ax HEW40_Nss1,(MCS0)_1TX

EBW

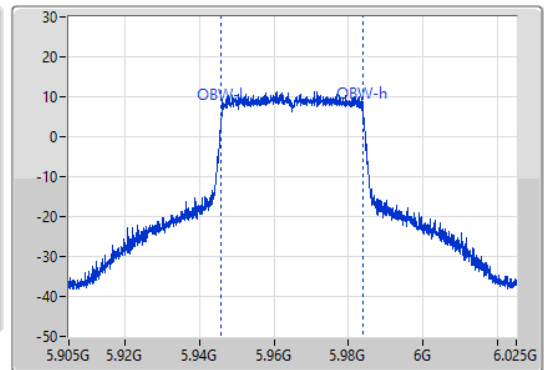
5965MHz

22/02/2022

CF
5.965GHz
Span
120MHz
RBW
500kHz
VBW
2MHz
Sweep Time
100ms
Detector Type
Peak
Port 1



CF
5.965GHz
Span
120MHz
RBW
500kHz
VBW
2MHz
Sweep Time
100ms
Detector Type
Peak



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
41.7M	5.94436G	5.98606G	38.081M	5.94593G	5.98401G	Inf	1

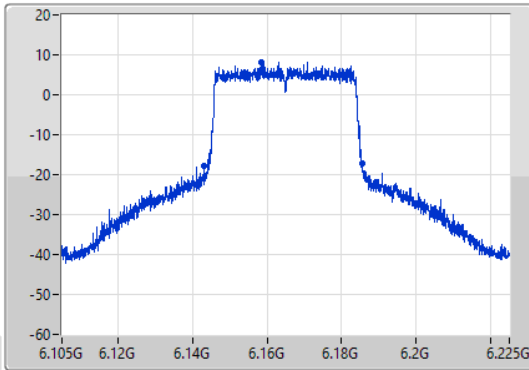
802.11ax HEW40_Nss1,(MCS0)_1TX

EBW

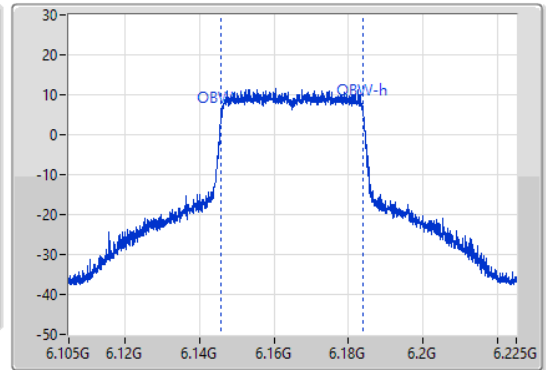
6165MHz

22/02/2022

CF
6.165GHz
Span
120MHz
RBW
500kHz
VBW
2MHz
Sweep Time
100ms
Detector Type
Peak
Port 1



CF
6.165GHz
Span
120MHz
RBW
1MHz
VBW
3MHz
Sweep Time
100ms
Detector Type
Peak



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
42.54M	6.1431G	6.18564G	38.141M	6.14587G	6.18401G	Inf	1

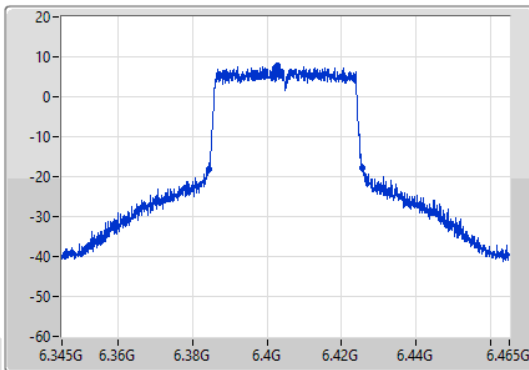
802.11ax HEW40_Nss1,(MCS0)_1TX

EBW

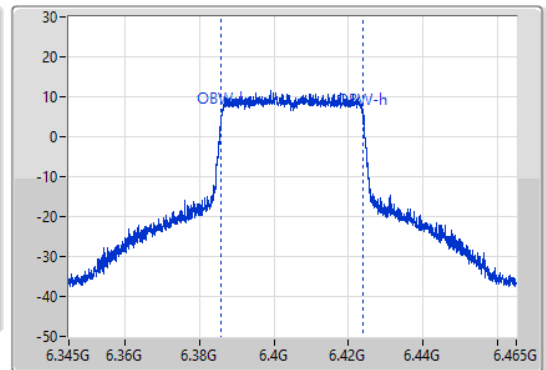
6405MHz

22/02/2022

CF
6.405GHz
Span
120MHz
RBW
500kHz
VBW
2MHz
Sweep Time
100ms
Detector Type
Peak
Port 1



CF
6.405GHz
Span
120MHz
RBW
1MHz
VBW
3MHz
Sweep Time
100ms
Detector Type
Peak



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
41.34M	6.38436G	6.4257G	38.141M	6.38587G	6.42401G	Inf	1

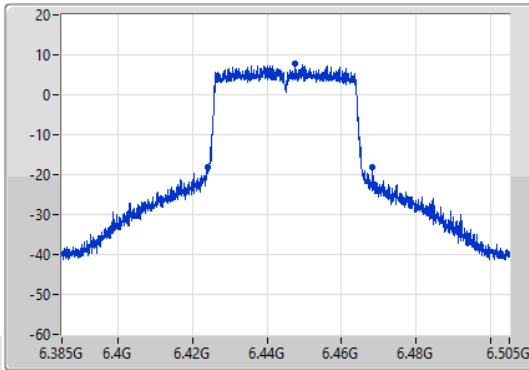
802.11ax HEW40_Nss1,(MCS0)_1TX

EBW

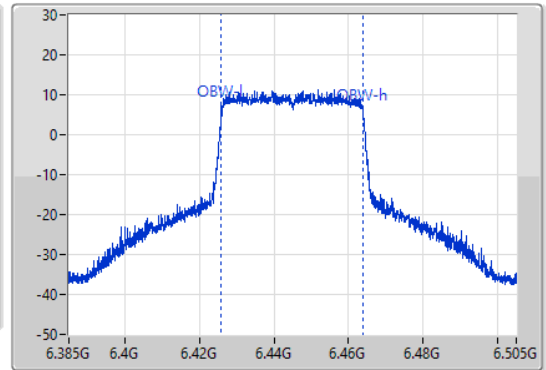
6445MHz

22/02/2022

CF
6.445GHz
Span
120MHz
RBW
500kHz
VBW
2MHz
Sweep Time
100ms
Detector Type
Peak
Port 1



CF
6.445GHz
Span
120MHz
RBW
1MHz
VBW
3MHz
Sweep Time
100ms
Detector Type
Peak



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
44.16M	6.424G	6.46816G	38.141M	6.42587G	6.46401G	Inf	1

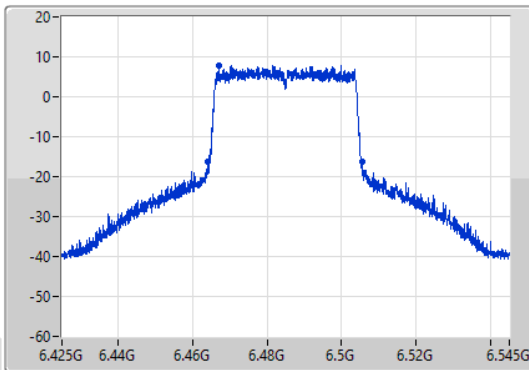
802.11ax HEW40_Nss1,(MCS0)_1TX

EBW

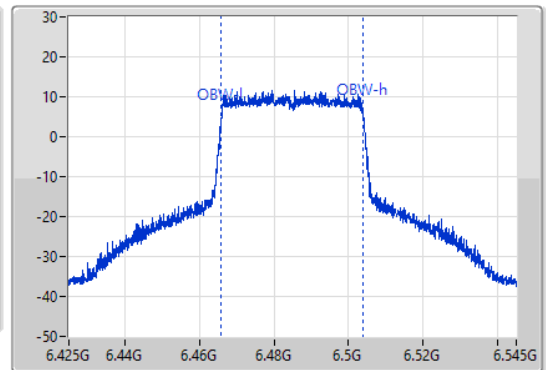
6485MHz

22/02/2022

CF
6.485GHz
Span
120MHz
RBW
500kHz
VBW
2MHz
Sweep Time
100ms
Detector Type
Peak
Port 1



CF
6.485GHz
Span
120MHz
RBW
1MHz
VBW
3MHz
Sweep Time
100ms
Detector Type
Peak

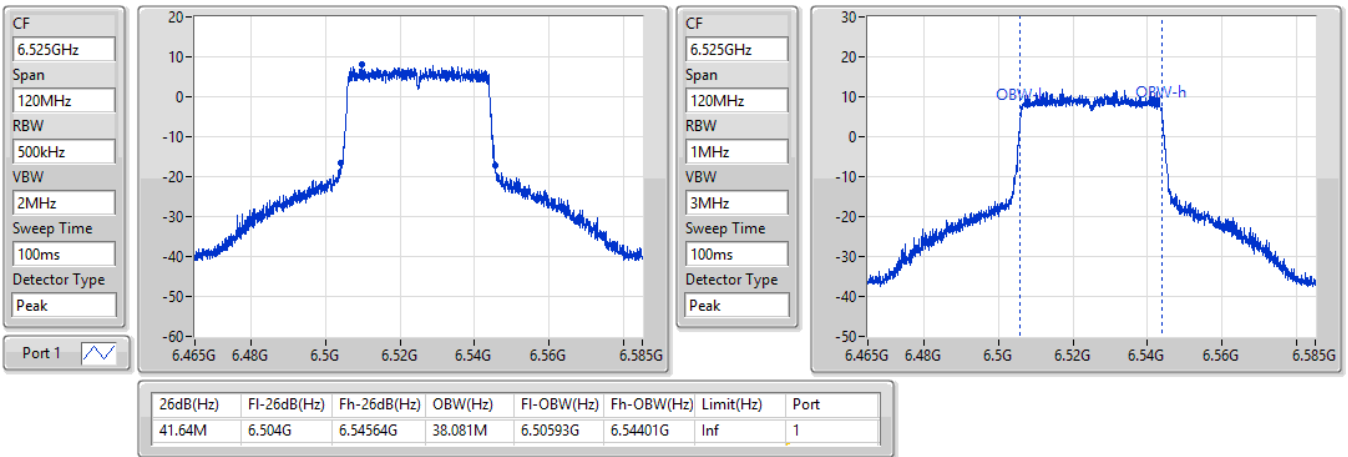


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
41.58M	6.464G	6.50558G	38.081M	6.46593G	6.50401G	Inf	1

802.11ax HEW40_Nss1,(MCS0)_1TX
6525MHz Straddle 6.425-6.525GHz

EBW

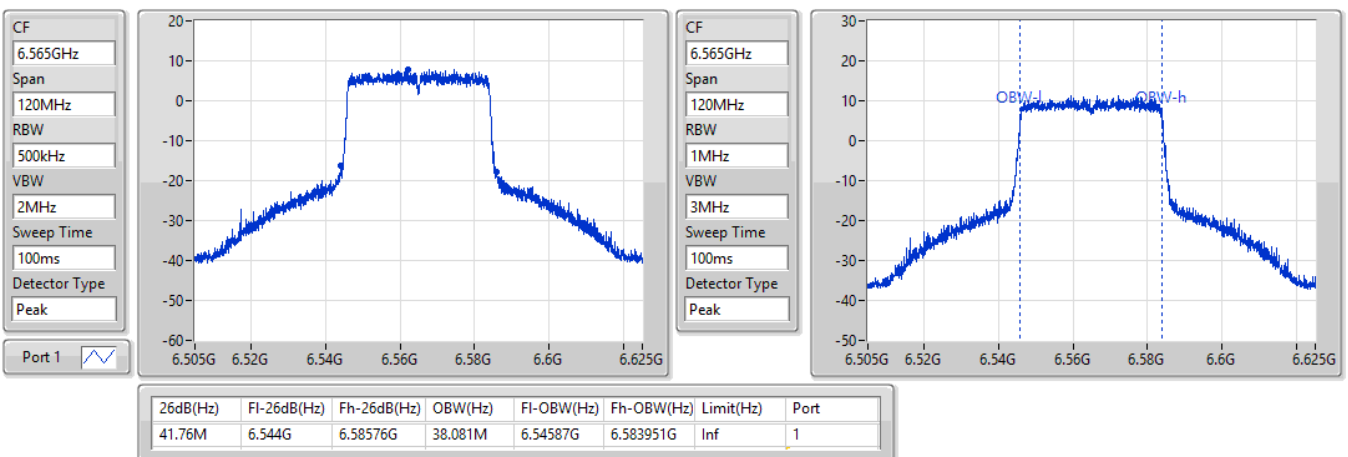
22/02/2022



802.11ax HEW40_Nss1,(MCS0)_1TX
6565MHz

EBW

22/02/2022

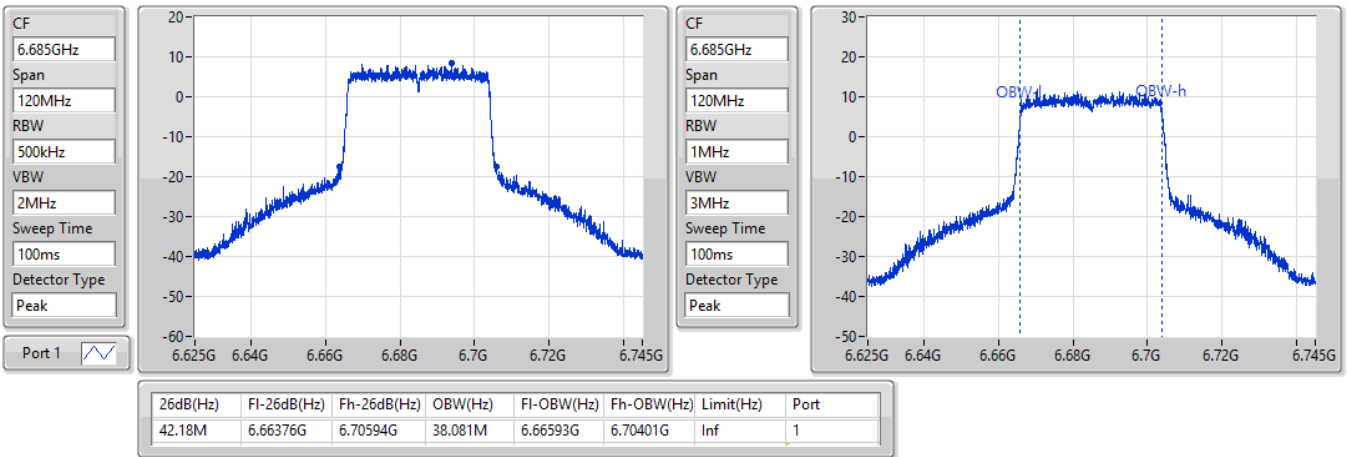


802.11ax HEW40_Nss1,(MCS0)_1TX

EBW

6685MHz

22/02/2022

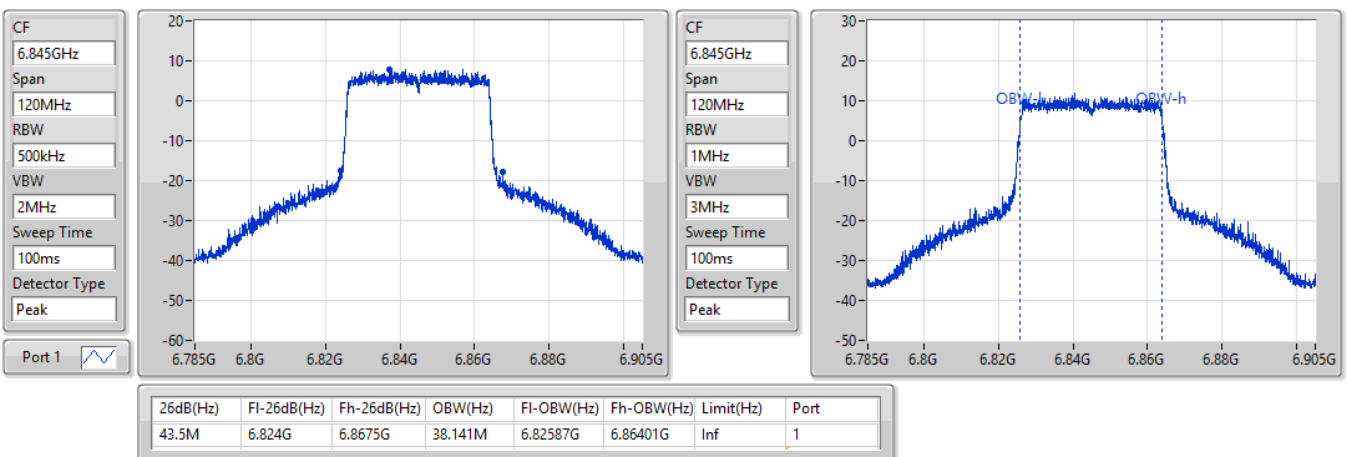


802.11ax HEW40_Nss1,(MCS0)_1TX

EBW

6845MHz

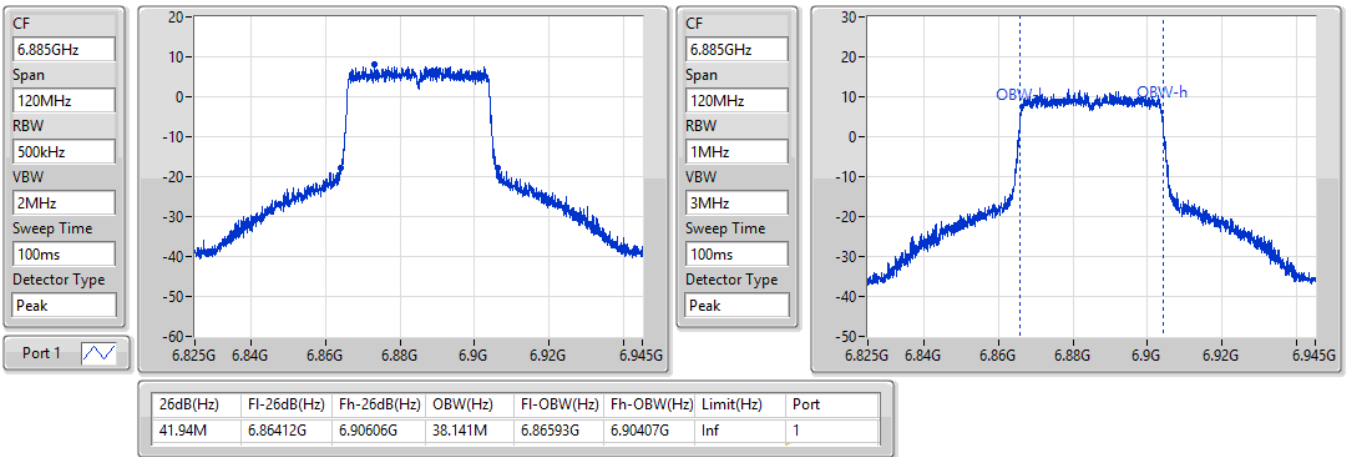
22/02/2022



802.11ax HEW40_Nss1,(MCS0)_1TX
6885MHz Straddle 6.525-6.875GHz

EBW

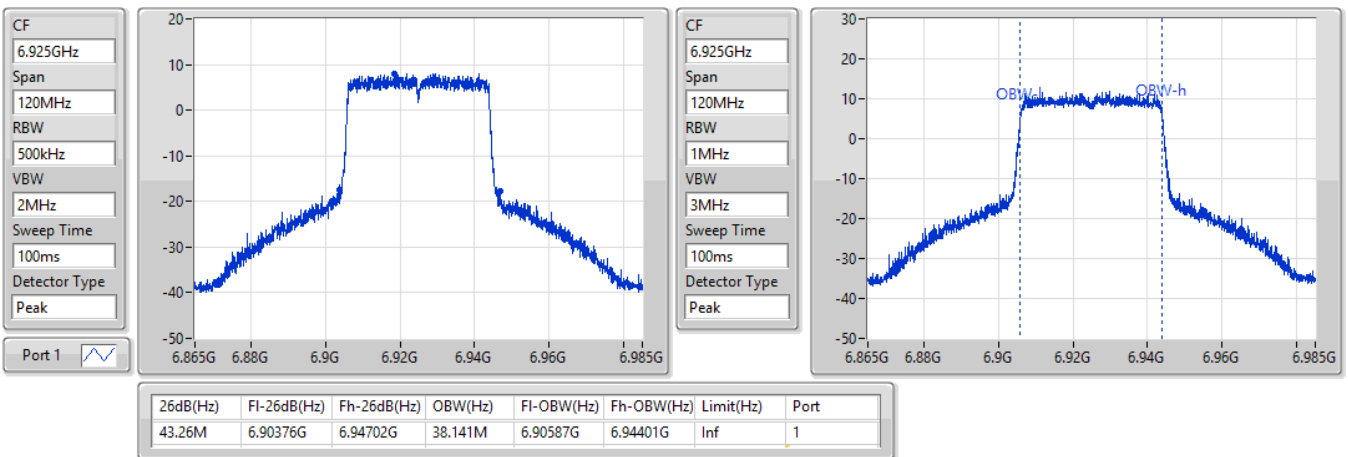
22/02/2022



802.11ax HEW40_Nss1,(MCS0)_1TX
6925MHz

EBW

22/02/2022



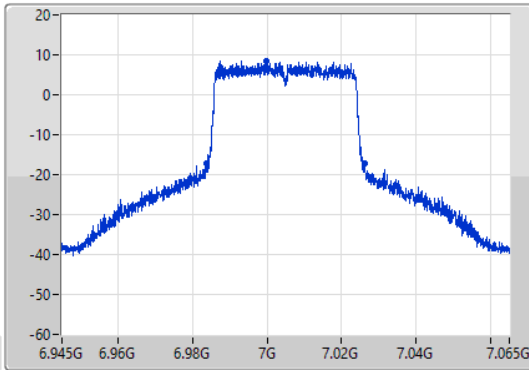
802.11ax HEW40_Nss1,(MCS0)_1TX

EBW

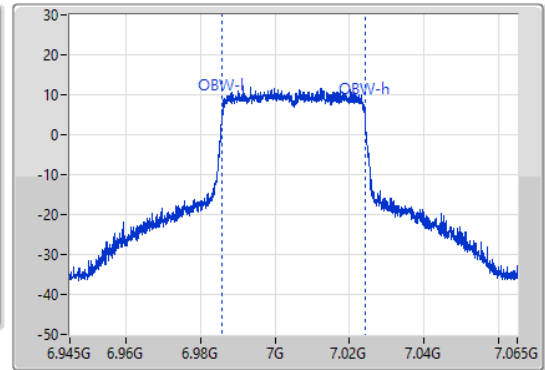
7005MHz

22/02/2022

CF
7.005GHz
Span
120MHz
RBW
500kHz
VBW
2MHz
Sweep Time
100ms
Detector Type
Peak
Port 1



CF
7.005GHz
Span
120MHz
RBW
1MHz
VBW
3MHz
Sweep Time
100ms
Detector Type
Peak



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
42.54M	6.9837G	7.02624G	38.201M	6.98587G	7.02407G	Inf	1

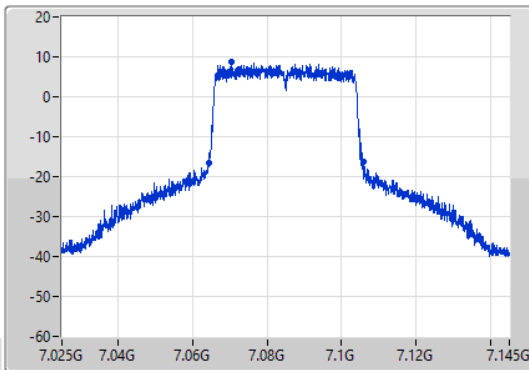
802.11ax HEW40_Nss1,(MCS0)_1TX

EBW

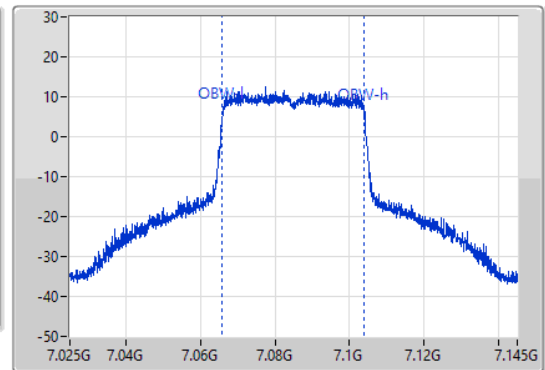
7085MHz

22/02/2022

CF
7.085GHz
Span
120MHz
RBW
500kHz
VBW
2MHz
Sweep Time
100ms
Detector Type
Peak
Port 1



CF
7.085GHz
Span
120MHz
RBW
1MHz
VBW
3MHz
Sweep Time
100ms
Detector Type
Peak



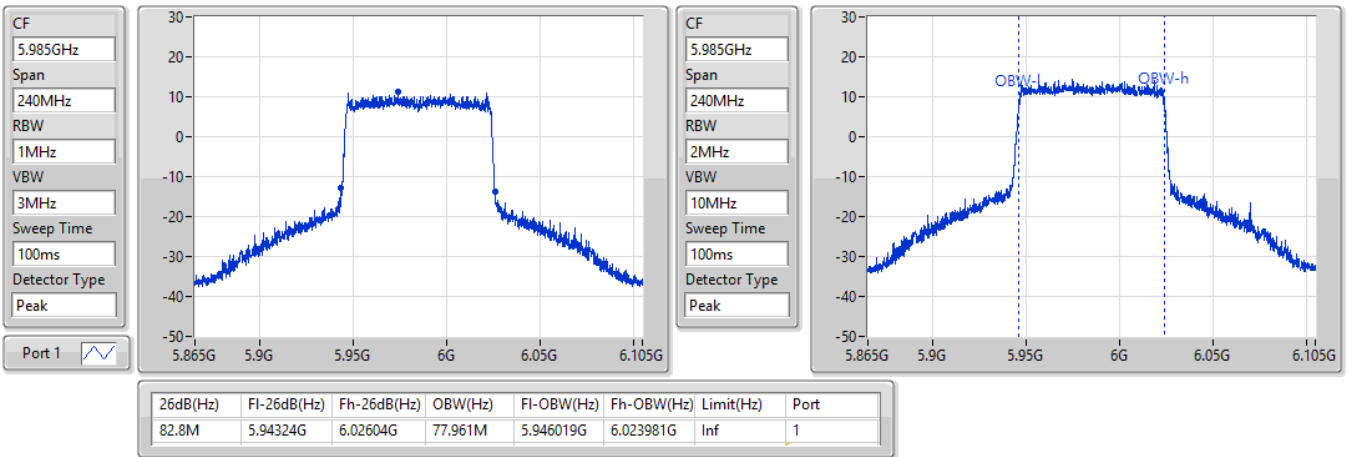
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
41.58M	7.0643G	7.10588G	38.141M	7.06587G	7.10401G	Inf	1

802.11ax HEW80_Nss1,(MCS0)_1TX

EBW

5985MHz

22/02/2022

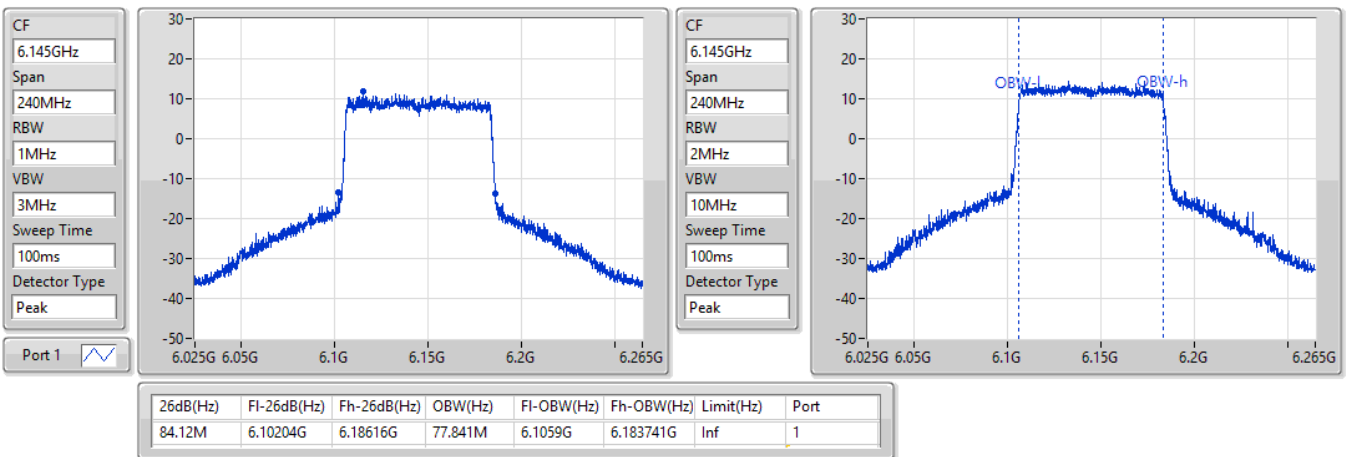


802.11ax HEW80_Nss1,(MCS0)_1TX

EBW

6145MHz

22/02/2022



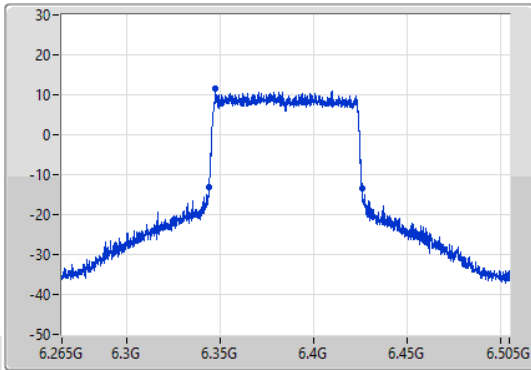
802.11ax HEW80_Nss1,(MCS0)_1TX

EBW

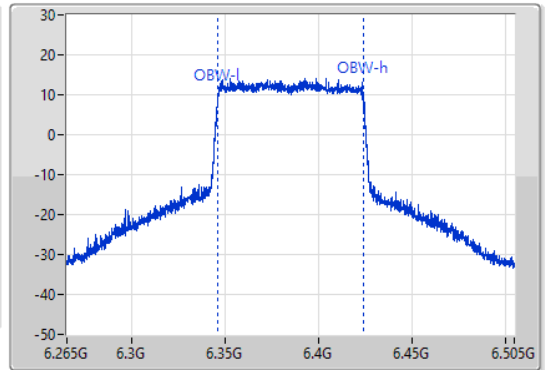
6385MHz

22/02/2022

CF
6.385GHz
Span
240MHz
RBW
1MHz
VBW
3MHz
Sweep Time
100ms
Detector Type
Peak
Port 1



CF
6.385GHz
Span
240MHz
RBW
2MHz
VBW
10MHz
Sweep Time
100ms
Detector Type
Peak



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
82.2M	6.34384G	6.42604G	78.081M	6.346019G	6.4241G	Inf	1

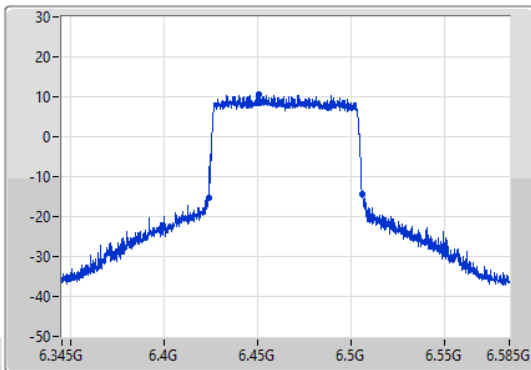
802.11ax HEW80_Nss1,(MCS0)_1TX

EBW

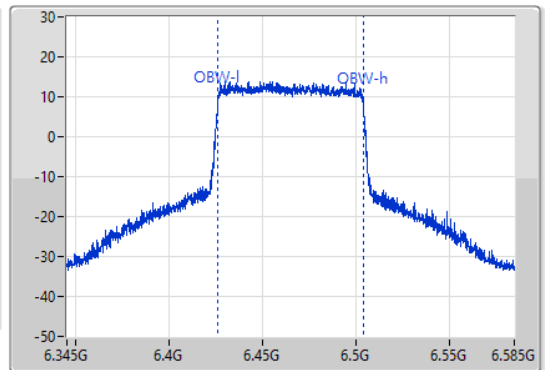
6465MHz

22/02/2022

CF
6.465GHz
Span
240MHz
RBW
1MHz
VBW
3MHz
Sweep Time
100ms
Detector Type
Peak
Port 1



CF
6.465GHz
Span
240MHz
RBW
2MHz
VBW
10MHz
Sweep Time
100ms
Detector Type
Peak

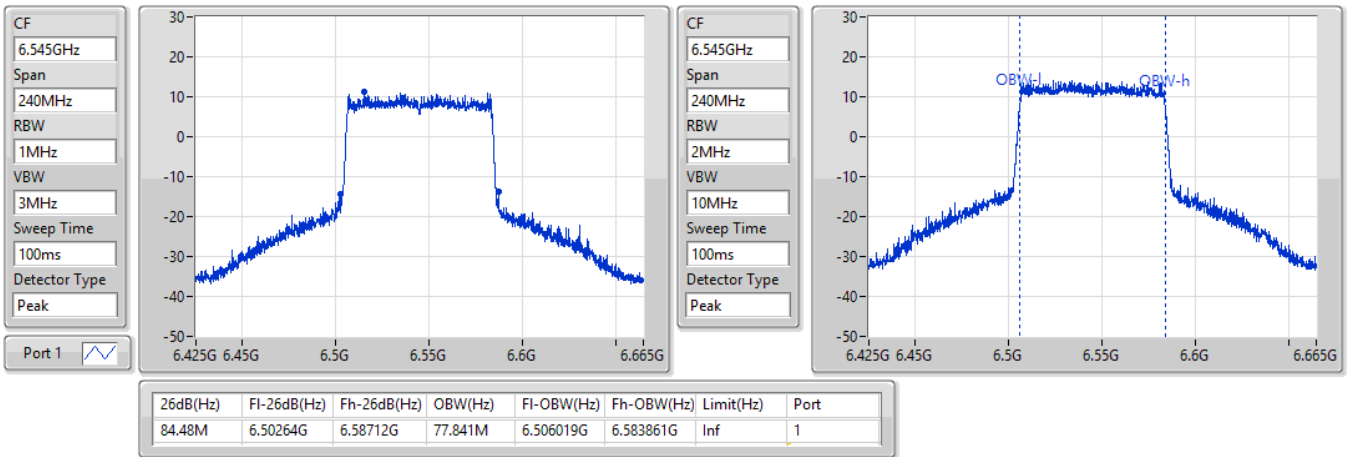


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
82.8M	6.4236G	6.5064G	77.961M	6.4259G	6.503861G	Inf	1

802.11ax HEW80_Nss1,(MCS0)_1TX
6545MHz Straddle 6.425-6.525GHz

EBW

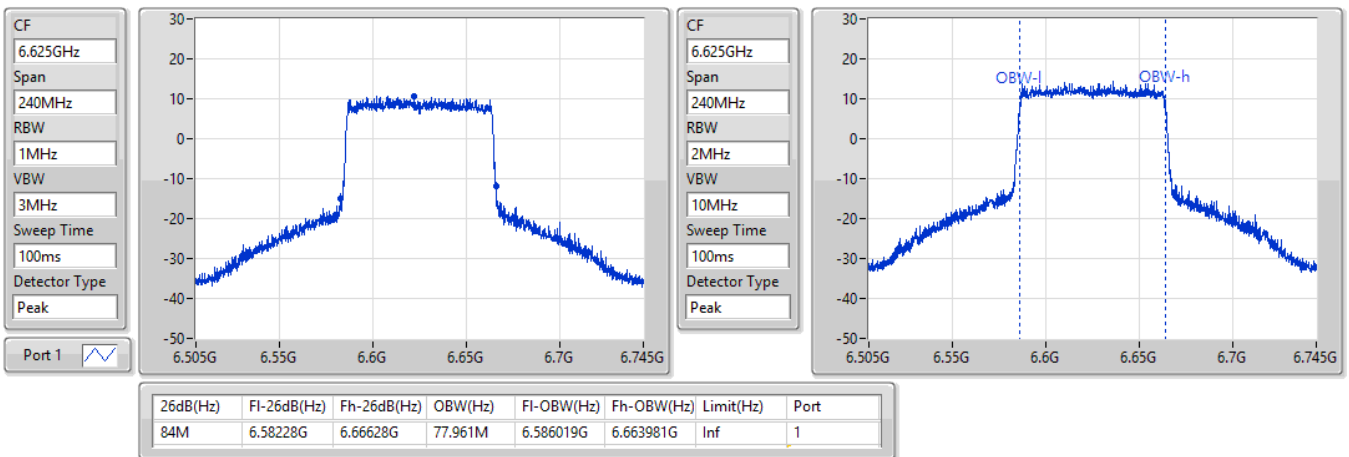
22/02/2022



802.11ax HEW80_Nss1,(MCS0)_1TX
6625MHz

EBW

22/02/2022



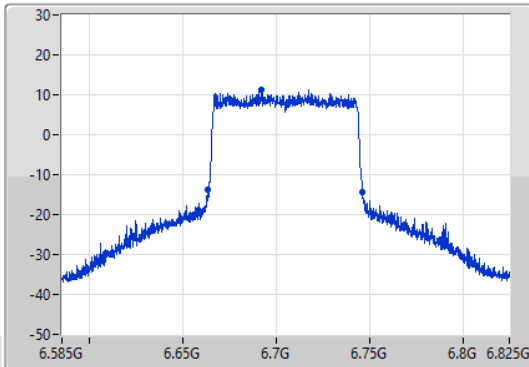
802.11ax HEW80_Nss1,(MCS0)_1TX

EBW

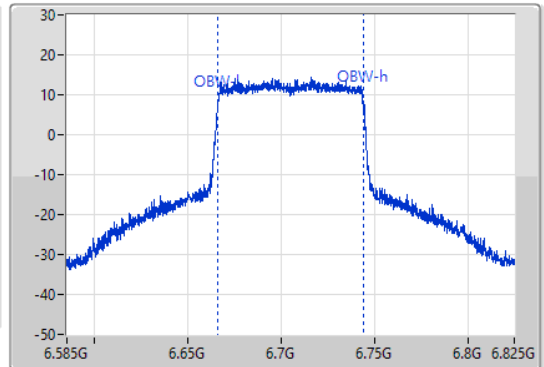
6705MHz

22/02/2022

CF
6.705GHz
Span
240MHz
RBW
1MHz
VBW
3MHz
Sweep Time
100ms
Detector Type
Peak
Port 1



CF
6.705GHz
Span
240MHz
RBW
2MHz
VBW
10MHz
Sweep Time
100ms
Detector Type
Peak



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
82.92M	6.66348G	6.7464G	77.961M	6.666019G	6.743981G	Inf	1

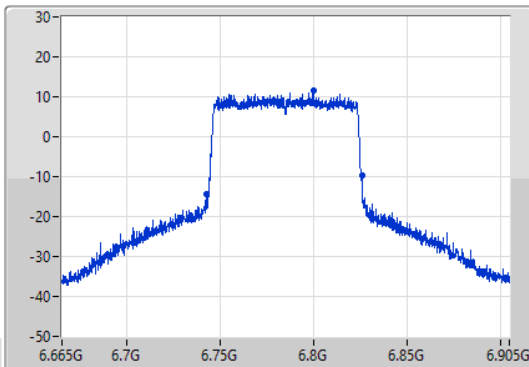
802.11ax HEW80_Nss1,(MCS0)_1TX

EBW

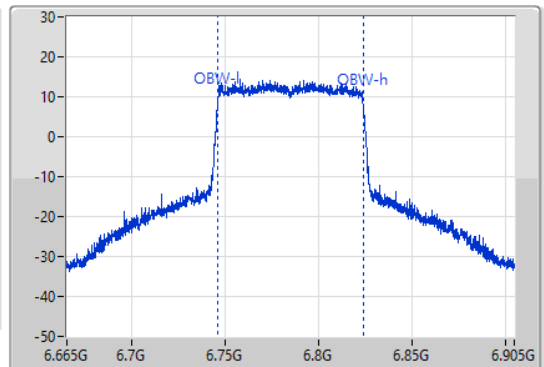
6785MHz

22/02/2022

CF
6.785GHz
Span
240MHz
RBW
1MHz
VBW
3MHz
Sweep Time
100ms
Detector Type
Peak
Port 1



CF
6.785GHz
Span
240MHz
RBW
2MHz
VBW
10MHz
Sweep Time
100ms
Detector Type
Peak

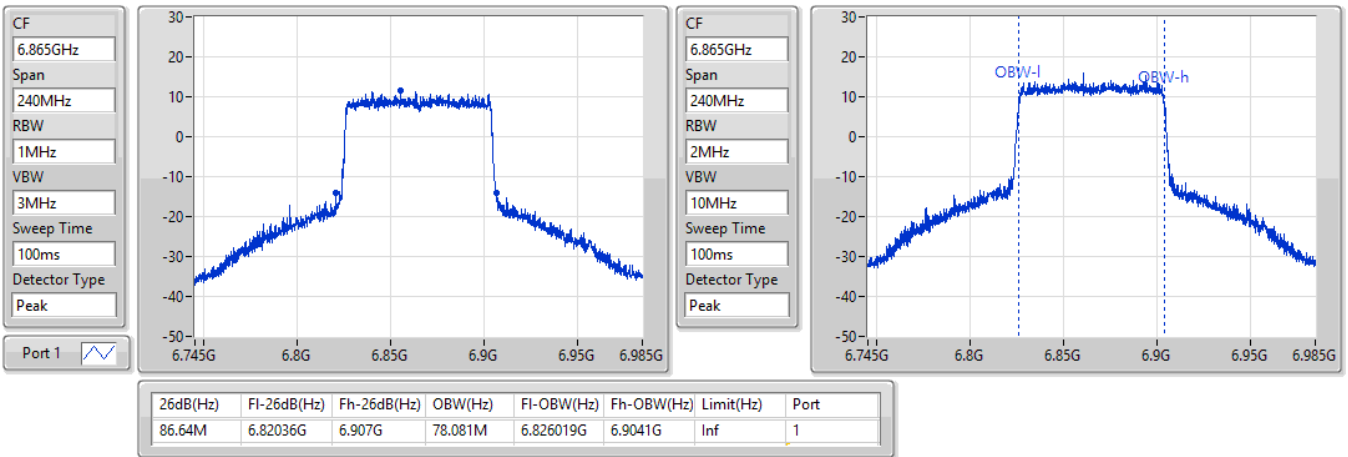


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
83.64M	6.74228G	6.82592G	77.841M	6.746019G	6.823861G	Inf	1

802.11ax HEW80_Nss1,(MCS0)_1TX
6865MHz Straddle 6.525-6.875GHz

EBW

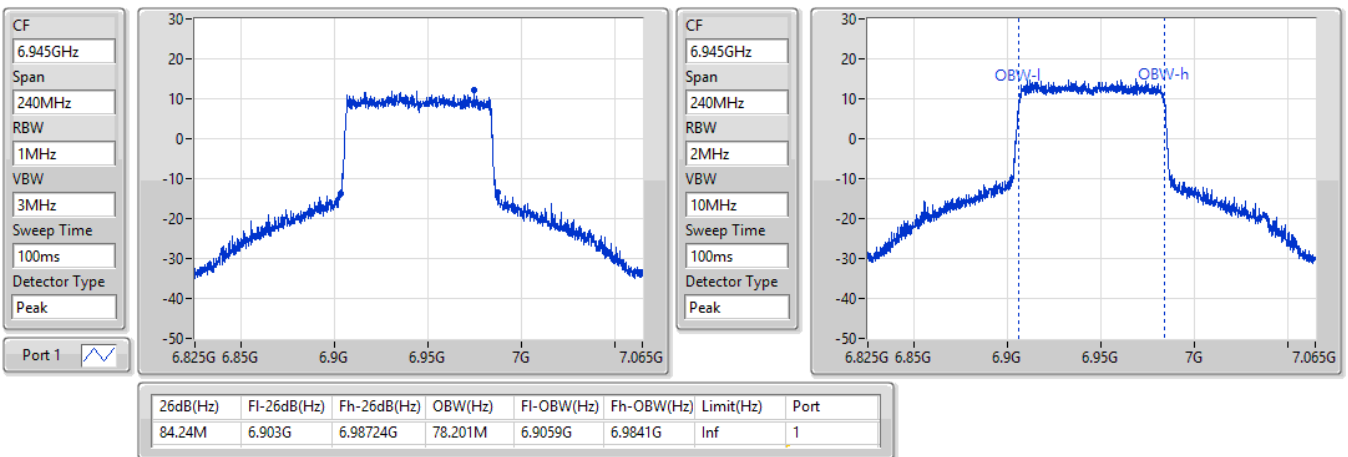
22/02/2022



802.11ax HEW80_Nss1,(MCS0)_1TX
6945MHz

EBW

22/02/2022

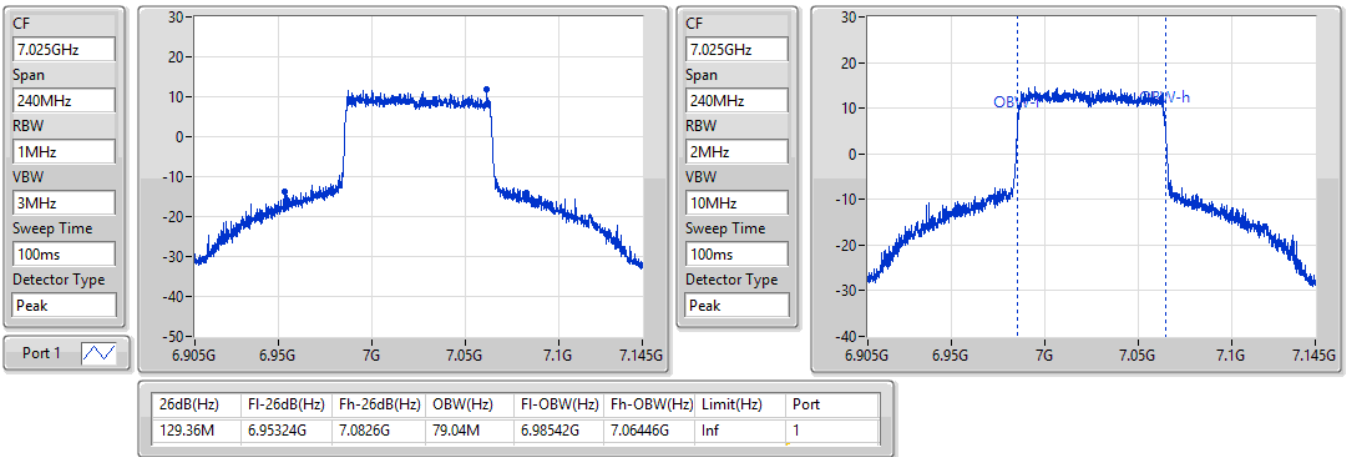


802.11ax HEW80_Nss1,(MCS0)_1TX

EBW

7025MHz

22/02/2022

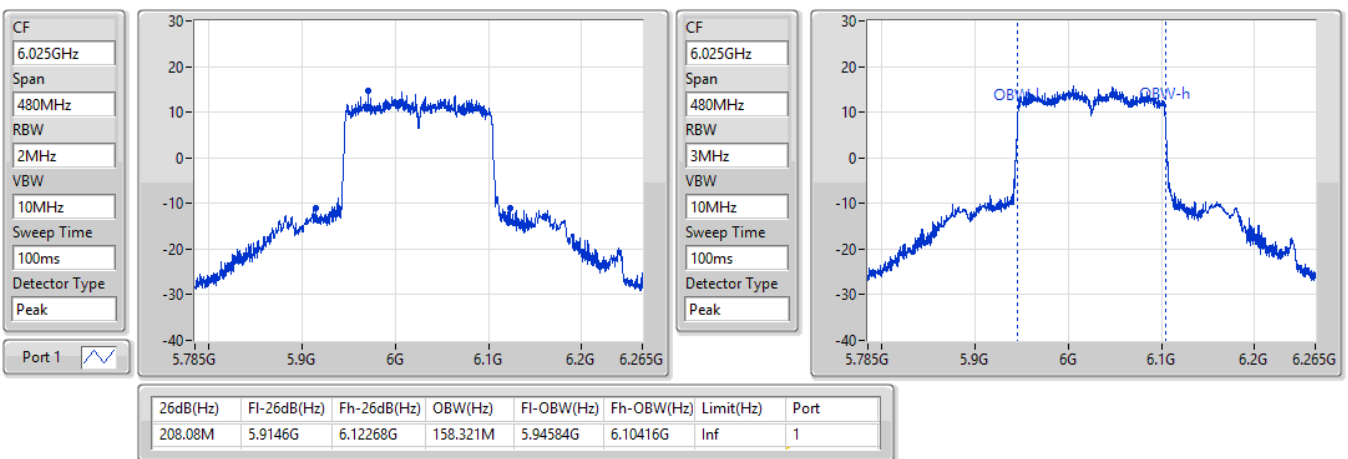


802.11ax HEW160_Nss1,(MCS0)_1TX

EBW

6025MHz

22/02/2022

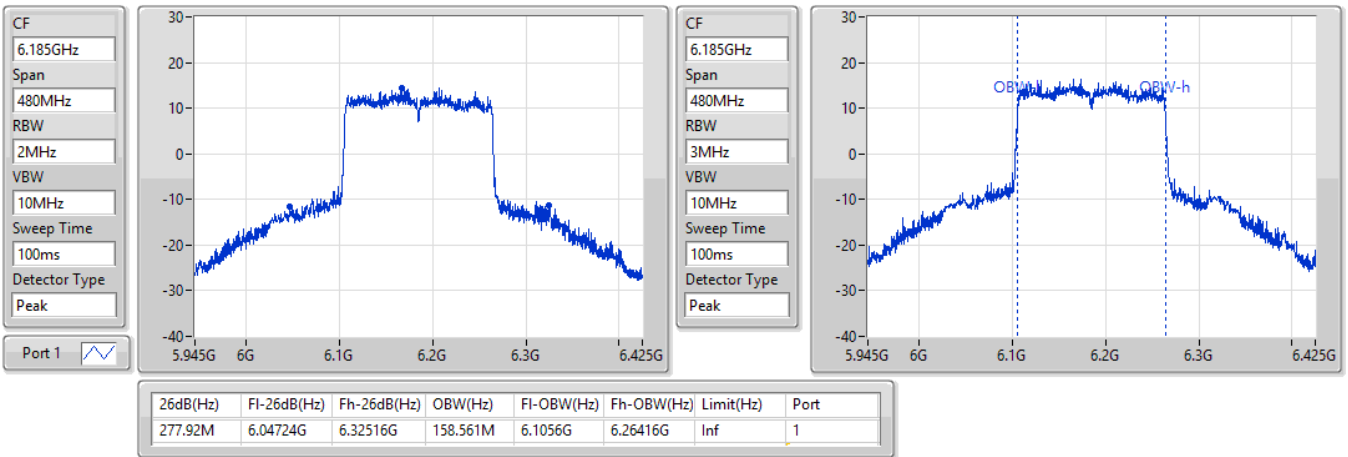


802.11ax HEW160_Nss1,(MCS0)_1TX

EBW

6185MHz

22/02/2022

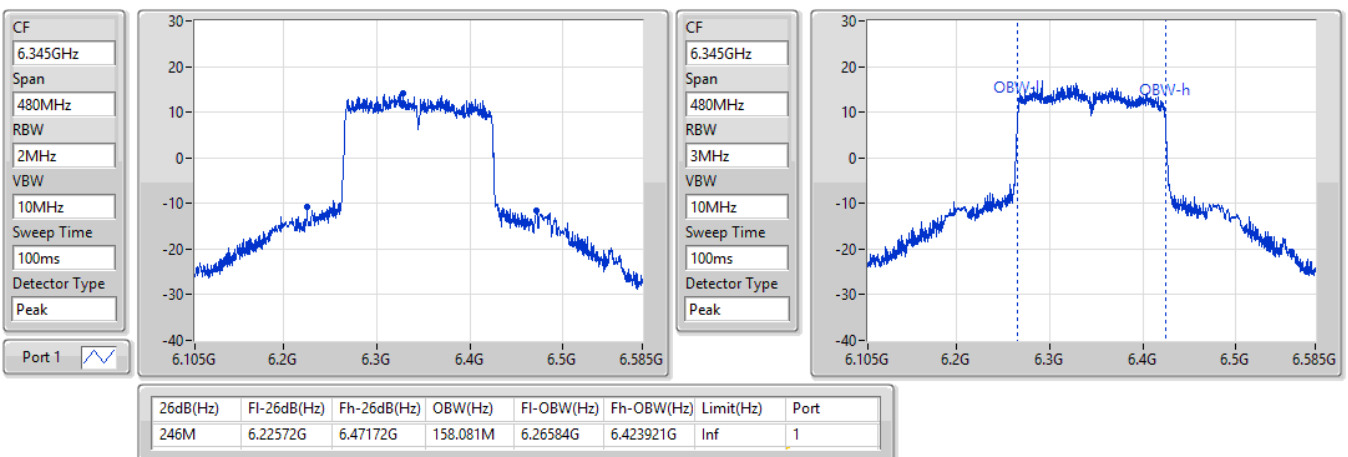


802.11ax HEW160_Nss1,(MCS0)_1TX

EBW

6345MHz

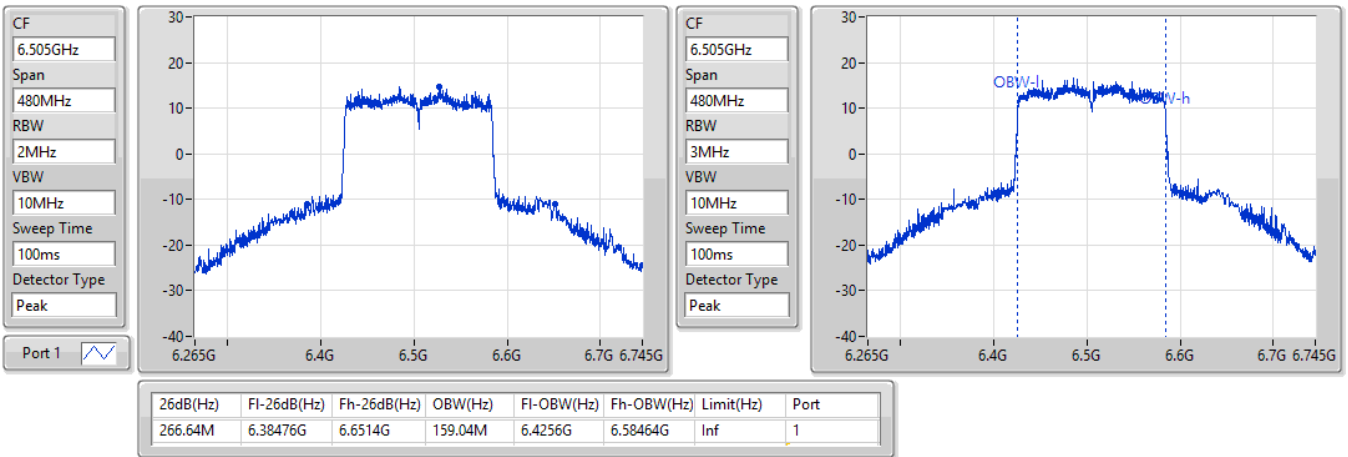
22/02/2022



802.11ax HEW160_Nss1,(MCS0)_1TX
6505MHz Straddle 6.425-6.525GHz

EBW

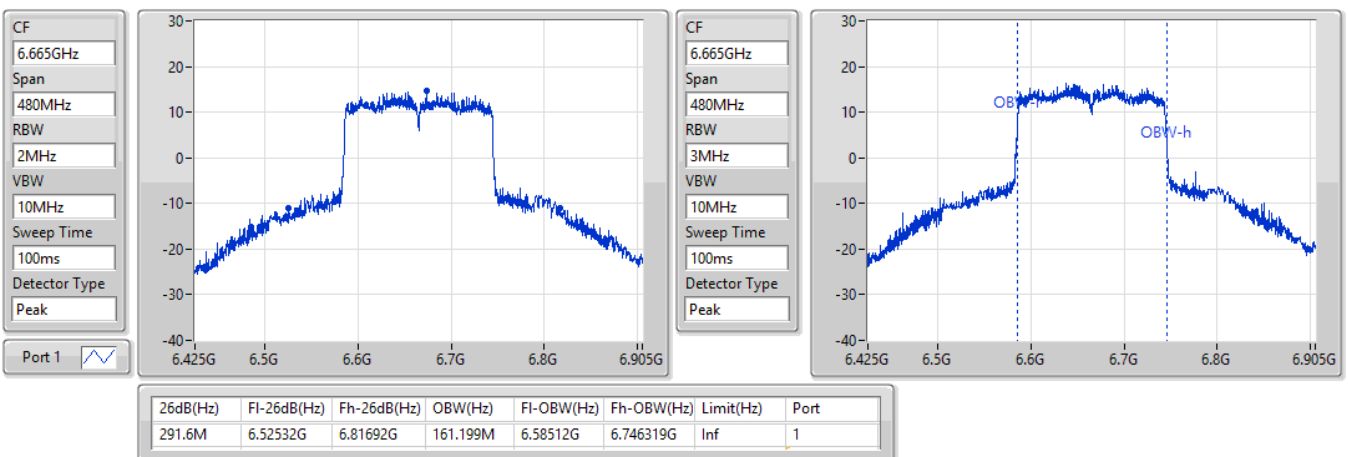
22/02/2022



802.11ax HEW160_Nss1,(MCS0)_1TX
6665MHz

EBW

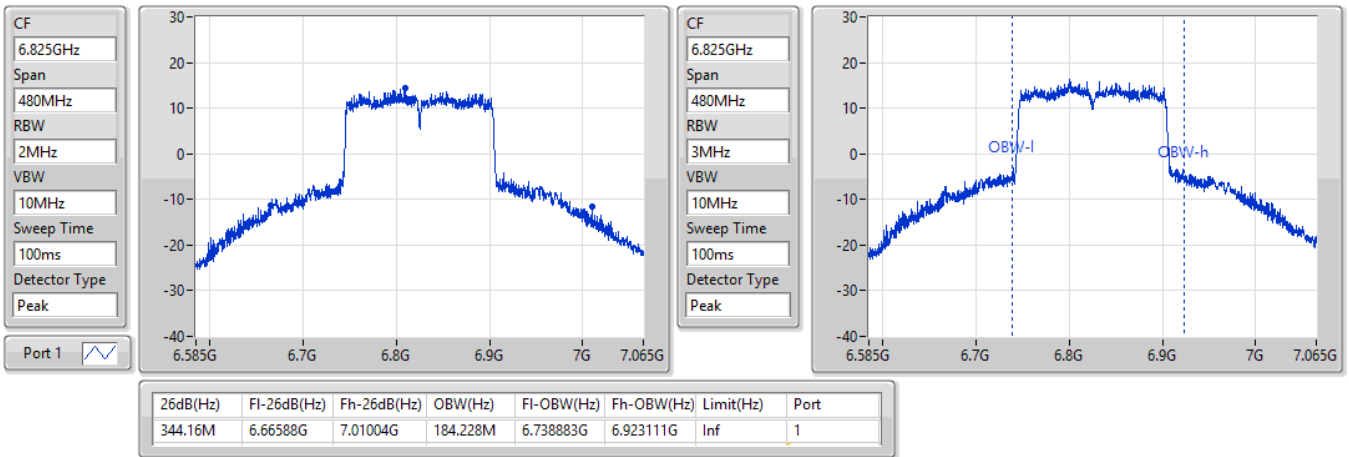
22/02/2022



802.11ax HEW160_Nss1,(MCS0)_1TX
6825MHz Straddle 6.525-6.875GHz

EBW

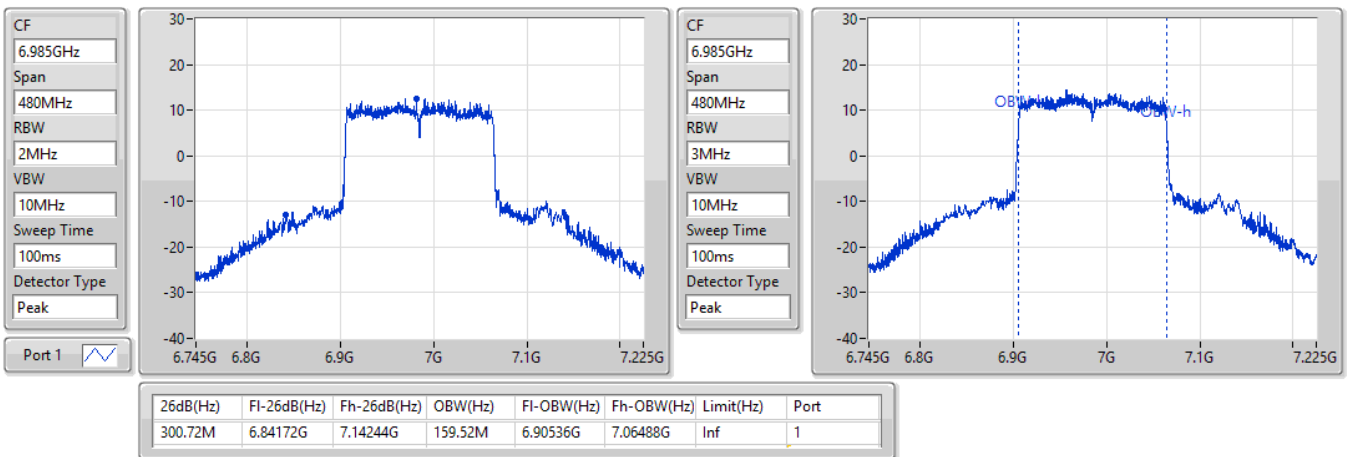
22/02/2022



802.11ax HEW160_Nss1,(MCS0)_1TX
6985MHz

EBW

22/02/2022





Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.925-6.425GHz	-	-	-	-	-
802.11ax HEW20_Nss1,(MCS0)_4TX	26.07M	19.31M	19M3D1D	22.83M	19.22M
802.11ax HEW40_Nss1,(MCS0)_4TX	47.52M	38.261M	38M3D1D	41.7M	38.081M
802.11ax HEW80_Nss1,(MCS0)_4TX	87M	78.201M	78M2D1D	82.56M	77.721M
802.11ax HEW160_Nss1,(MCS0)_4TX	177.36M	157.361M	157MD1D	164.64M	156.642M
6.425-6.525GHz	-	-	-	-	-
802.11ax HEW20_Nss1,(MCS0)_4TX	27.54M	19.28M	19M3D1D	22.05M	19.19M
802.11ax HEW40_Nss1,(MCS0)_4TX	44.04M	38.201M	38M2D1D	41.46M	38.081M
802.11ax HEW80_Nss1,(MCS0)_4TX	87.6M	78.081M	78M1D1D	82.32M	77.841M
802.11ax HEW160_Nss1,(MCS0)_4TX	165.36M	157.361M	157MD1D	164.88M	156.402M
6.525-6.875GHz	-	-	-	-	-
802.11ax HEW20_Nss1,(MCS0)_4TX	26.88M	19.28M	19M3D1D	22.59M	19.19M
802.11ax HEW40_Nss1,(MCS0)_4TX	45.84M	38.261M	38M3D1D	40.86M	38.021M
802.11ax HEW80_Nss1,(MCS0)_4TX	91.92M	78.321M	78M3D1D	82.68M	77.841M
802.11ax HEW160_Nss1,(MCS0)_4TX	263.04M	158.321M	158MD1D	259.68M	157.361M
6.875-7.125GHz	-	-	-	-	-
802.11ax HEW20_Nss1,(MCS0)_4TX	26.55M	19.28M	19M3D1D	22.29M	19.19M
802.11ax HEW40_Nss1,(MCS0)_4TX	47.94M	38.201M	38M2D1D	41.82M	38.081M
802.11ax HEW80_Nss1,(MCS0)_4TX	85.8M	78.441M	78M4D1D	83.4M	78.081M
802.11ax HEW160_Nss1,(MCS0)_4TX	165.36M	157.121M	157MD1D	164.16M	156.642M

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



Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)	Port 3-N dB (Hz)	Port 3-OBW (Hz)	Port 4-N dB (Hz)	Port 4-OBW (Hz)
802.11ax HEW20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5955MHz	Pass	Inf	23.4M	19.25M	23.31M	19.25M	25.86M	19.22M	26.07M	19.25M
6175MHz	Pass	Inf	25.35M	19.22M	25.83M	19.22M	23.4M	19.22M	24.39M	19.25M
6415MHz	Pass	Inf	23.85M	19.28M	22.83M	19.31M	25.77M	19.25M	24.6M	19.28M
6435MHz	Pass	Inf	23.07M	19.25M	24.06M	19.22M	25.17M	19.25M	24.3M	19.28M
6475MHz	Pass	Inf	22.08M	19.25M	23.85M	19.25M	22.05M	19.22M	24.87M	19.22M
6515MHz	Pass	Inf	27.54M	19.25M	25.56M	19.19M	24.18M	19.22M	22.53M	19.25M
6535MHz	Pass	Inf	25.92M	19.25M	23.82M	19.28M	23.82M	19.22M	23.13M	19.19M
6695MHz	Pass	Inf	22.98M	19.22M	26.04M	19.25M	24.27M	19.22M	23.22M	19.22M
6855MHz	Pass	Inf	26.88M	19.25M	25.17M	19.25M	22.59M	19.25M	26.58M	19.22M
6875MHz Straddle 6.525-6.875GHz	Pass	Inf	24.99M	19.28M	23.67M	19.25M	24.9M	19.22M	24.6M	19.25M
6895MHz	Pass	Inf	24.48M	19.28M	24.63M	19.25M	22.38M	19.28M	24.66M	19.22M
6995MHz	Pass	Inf	23.67M	19.22M	23.28M	19.28M	25.44M	19.25M	24.33M	19.19M
7095MHz	Pass	Inf	25.11M	19.25M	24.03M	19.22M	26.55M	19.25M	22.29M	19.22M
802.11ax HEW40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5965MHz	Pass	Inf	45.84M	38.141M	41.7M	38.081M	45M	38.201M	42.72M	38.141M
6165MHz	Pass	Inf	43.92M	38.201M	41.82M	38.141M	42.36M	38.201M	42.3M	38.141M
6405MHz	Pass	Inf	42.54M	38.201M	43.08M	38.261M	42.42M	38.201M	47.52M	38.201M
6445MHz	Pass	Inf	43.5M	38.141M	42M	38.141M	41.64M	38.141M	43.08M	38.201M
6485MHz	Pass	Inf	44.04M	38.141M	41.46M	38.141M	42.84M	38.141M	42M	38.141M
6525MHz Straddle 6.425-6.525GHz	Pass	Inf	41.58M	38.201M	41.94M	38.141M	41.46M	38.081M	41.94M	38.141M
6565MHz	Pass	Inf	43.62M	38.141M	42.66M	38.141M	45.66M	38.141M	40.86M	38.141M
6685MHz	Pass	Inf	41.4M	38.141M	41.7M	38.141M	43.8M	38.261M	45.84M	38.261M
6845MHz	Pass	Inf	41.76M	38.081M	42.12M	38.141M	41.76M	38.141M	41.22M	38.021M
6885MHz Straddle 6.525-6.875GHz	Pass	Inf	44.4M	38.261M	43.86M	38.141M	42.24M	38.141M	41.16M	38.261M
6925MHz	Pass	Inf	42.54M	38.141M	42.3M	38.141M	47.94M	38.201M	42.24M	38.081M
7005MHz	Pass	Inf	41.82M	38.081M	43.86M	38.141M	42.3M	38.141M	42.66M	38.081M
7085MHz	Pass	Inf	42.42M	38.201M	42.48M	38.141M	42M	38.201M	43.5M	38.141M
802.11ax HEW80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5985MHz	Pass	Inf	83.76M	77.721M	85.92M	77.961M	85.68M	77.961M	84.96M	77.961M
6145MHz	Pass	Inf	83.88M	77.841M	87M	78.081M	84.96M	77.961M	85.2M	77.961M
6385MHz	Pass	Inf	84.36M	77.961M	82.56M	78.081M	85.08M	78.201M	84.36M	77.961M
6465MHz	Pass	Inf	82.32M	77.961M	85.68M	77.841M	84.48M	77.961M	84.24M	77.841M
6545MHz Straddle 6.425-6.525GHz	Pass	Inf	83.52M	78.081M	85.08M	77.961M	83.4M	77.961M	87.6M	78.081M
6625MHz	Pass	Inf	84.48M	78.081M	85.08M	77.961M	83.64M	77.961M	83.76M	78.081M
6705MHz	Pass	Inf	85.68M	77.961M	84.6M	77.841M	82.68M	77.961M	84.24M	77.841M
6785MHz	Pass	Inf	84.36M	78.081M	91.92M	78.081M	85.8M	78.201M	83.64M	78.321M
6865MHz Straddle 6.525-6.875GHz	Pass	Inf	84.36M	78.081M	83.04M	77.841M	83.04M	77.961M	83.76M	77.961M
6945MHz	Pass	Inf	83.4M	78.081M	85.44M	78.081M	83.88M	78.081M	83.76M	78.081M
7025MHz	Pass	Inf	85.44M	78.081M	84.72M	78.441M	85.8M	78.201M	84.12M	78.081M
802.11ax HEW160_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
6025MHz	Pass	Inf	165.36M	156.642M	164.88M	156.642M	165.84M	156.642M	165.6M	156.642M
6185MHz	Pass	Inf	164.64M	157.121M	165.12M	157.121M	165.12M	156.882M	165.12M	156.882M
6345MHz	Pass	Inf	164.88M	156.882M	177.36M	157.361M	176.16M	157.121M	164.64M	156.642M
6505MHz Straddle 6.425-6.525GHz	Pass	Inf	164.88M	157.121M	165.12M	156.402M	164.88M	157.121M	165.36M	157.361M
6665MHz	Pass	Inf	262.08M	157.841M	262.08M	157.841M	262.32M	157.841M	262.8M	158.081M
6825MHz Straddle 6.525-6.875GHz	Pass	Inf	263.04M	158.321M	261.6M	157.361M	260.64M	157.841M	259.68M	158.321M
6985MHz	Pass	Inf	165.12M	156.882M	164.4M	156.642M	165.36M	157.121M	164.16M	156.882M

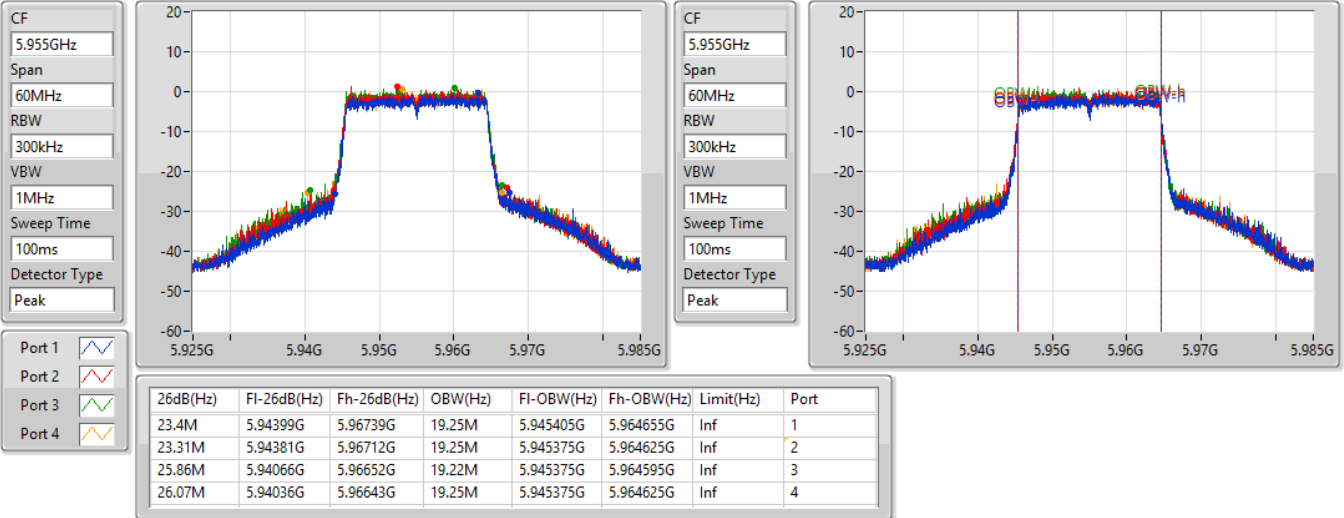
Port X-N dB = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band
 Port X-OBW = Port X 99% occupied bandwidth

802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

5955MHz

19/02/2022

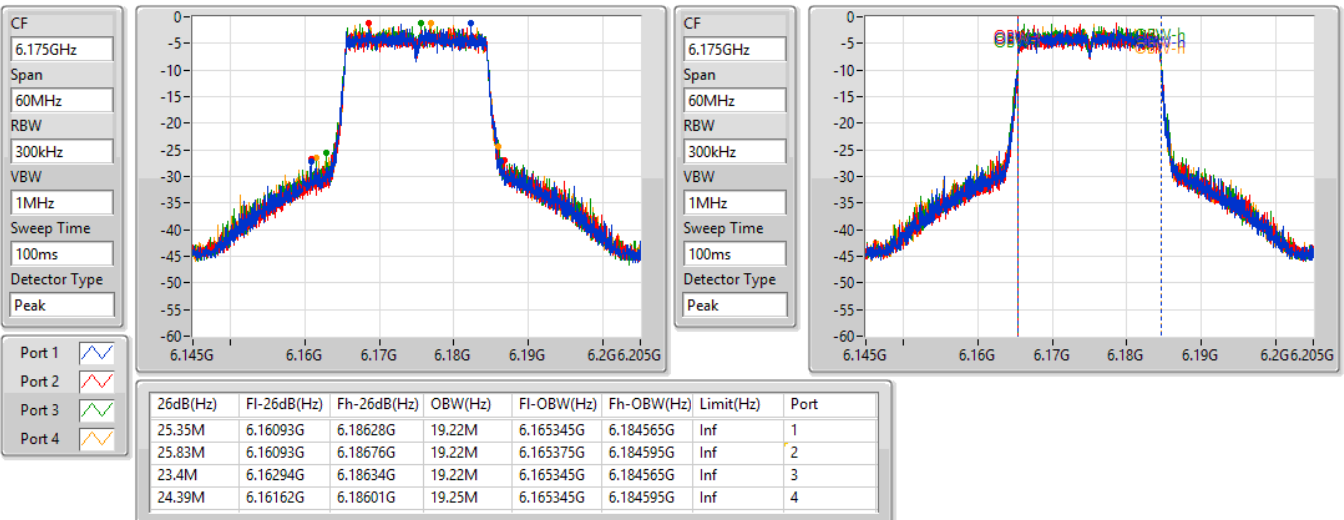


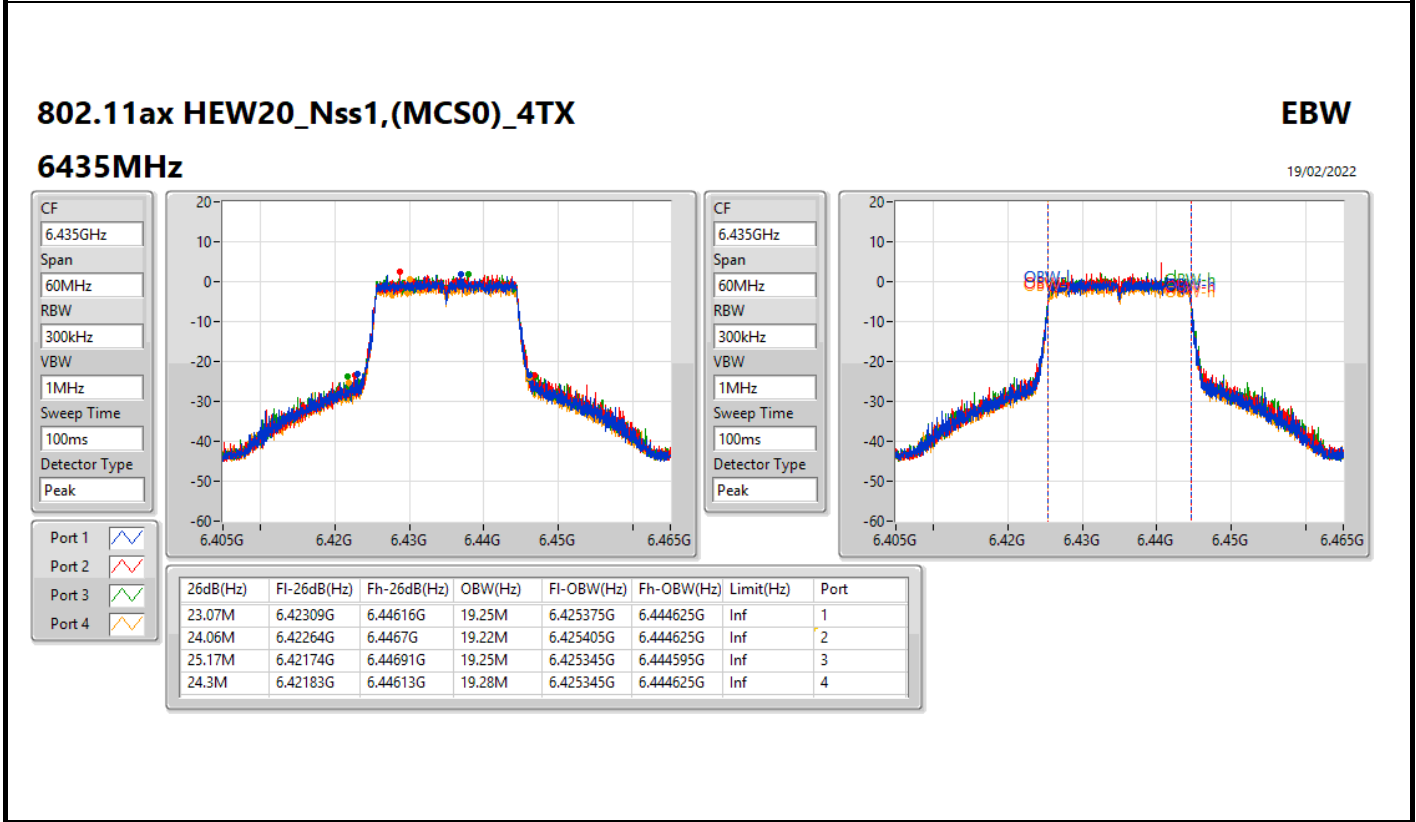
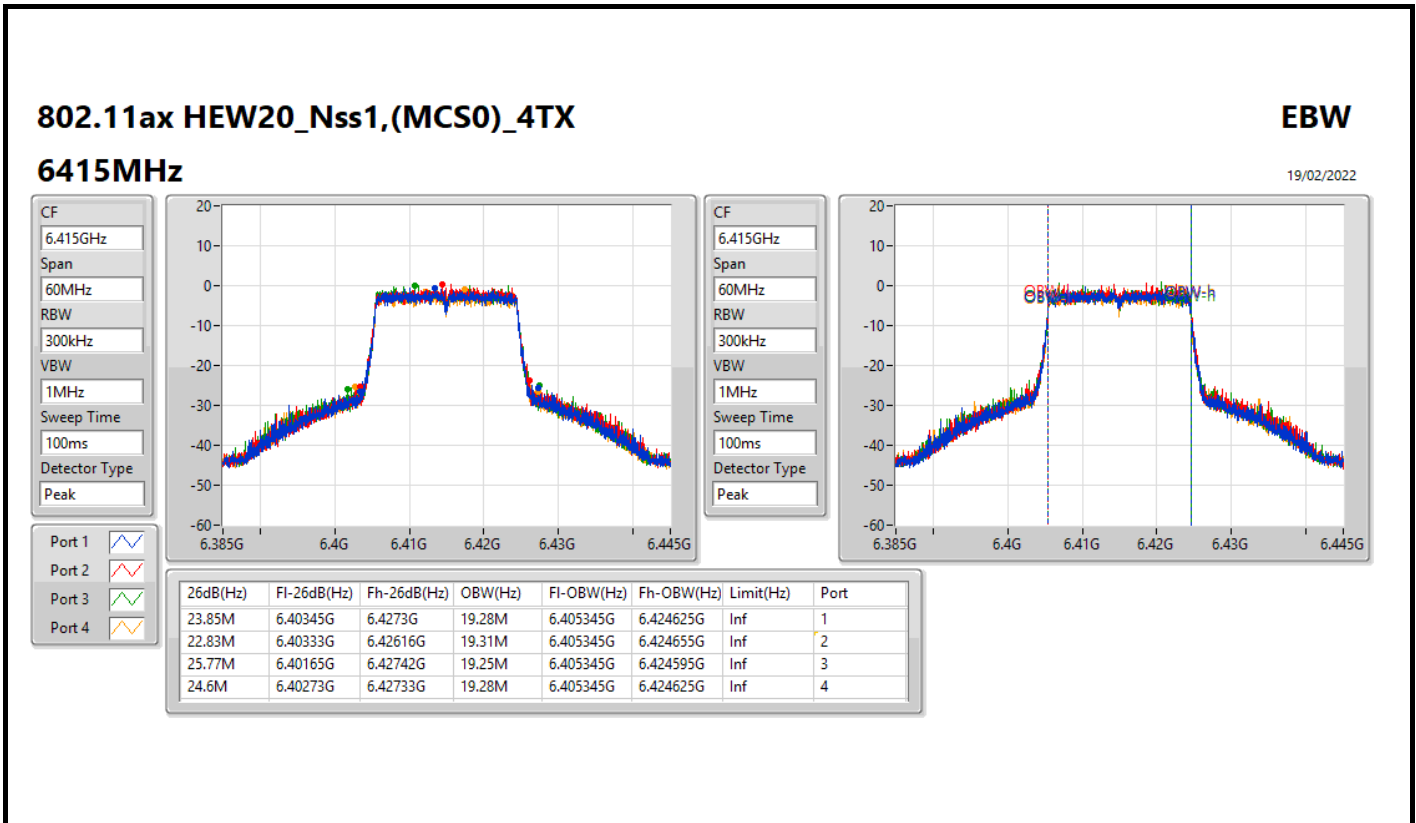
802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

6175MHz

19/02/2022



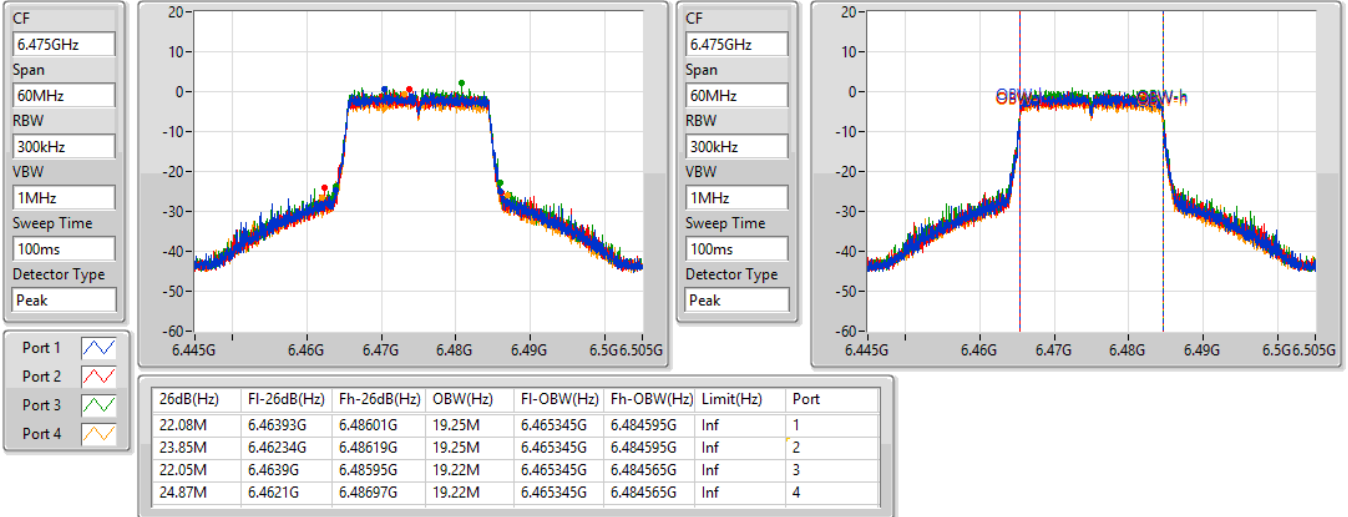


802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

6475MHz

19/02/2022

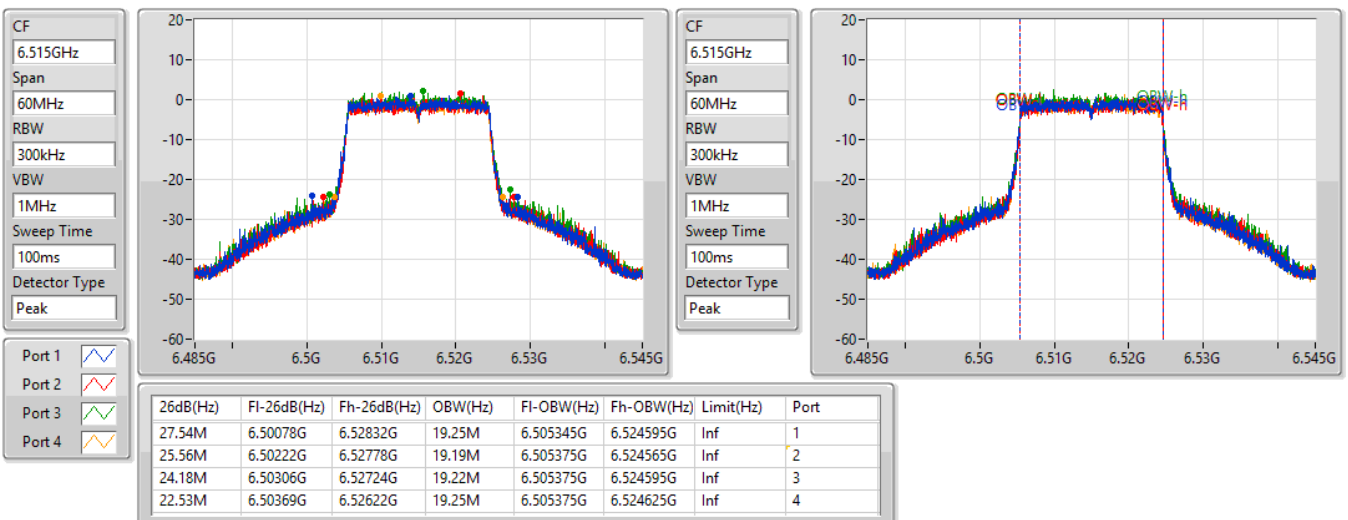


802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

6515MHz

19/02/2022



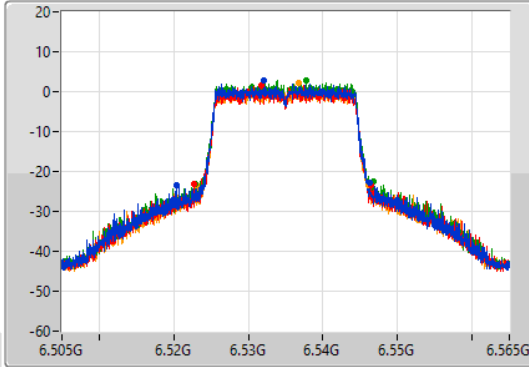
802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

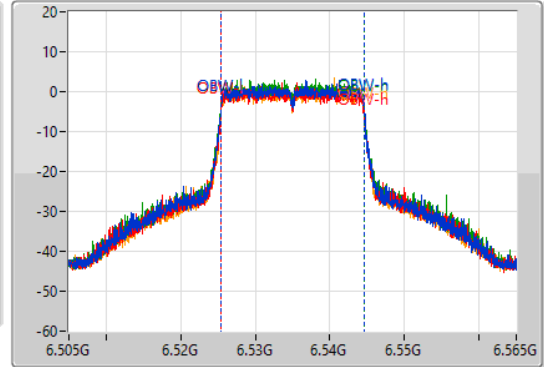
6535MHz

19/02/2022

CF
6.535GHz
Span
60MHz
RBW
300kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



CF
6.535GHz
Span
60MHz
RBW
300kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



Port 1
Port 2
Port 3
Port 4

26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
25.92M	6.52039G	6.54631G	19.25M	6.525345G	6.544595G	Inf	1
23.82M	6.52267G	6.54649G	19.28M	6.525345G	6.544625G	Inf	2
23.82M	6.52294G	6.54676G	19.22M	6.525375G	6.544595G	Inf	3
23.13M	6.52306G	6.54619G	19.19M	6.525375G	6.544565G	Inf	4

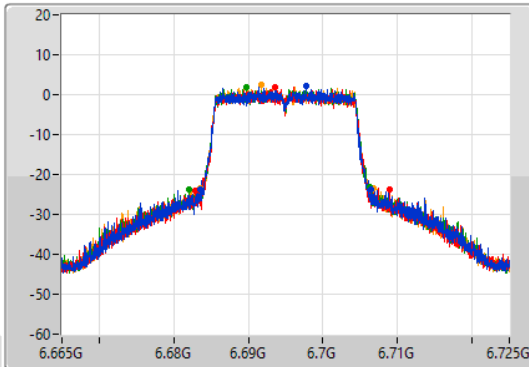
802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

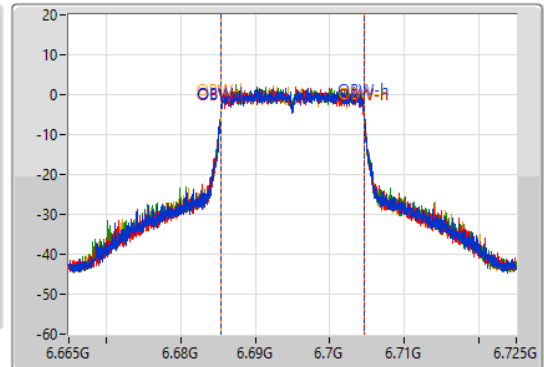
6695MHz

19/02/2022

CF
6.695GHz
Span
60MHz
RBW
300kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak

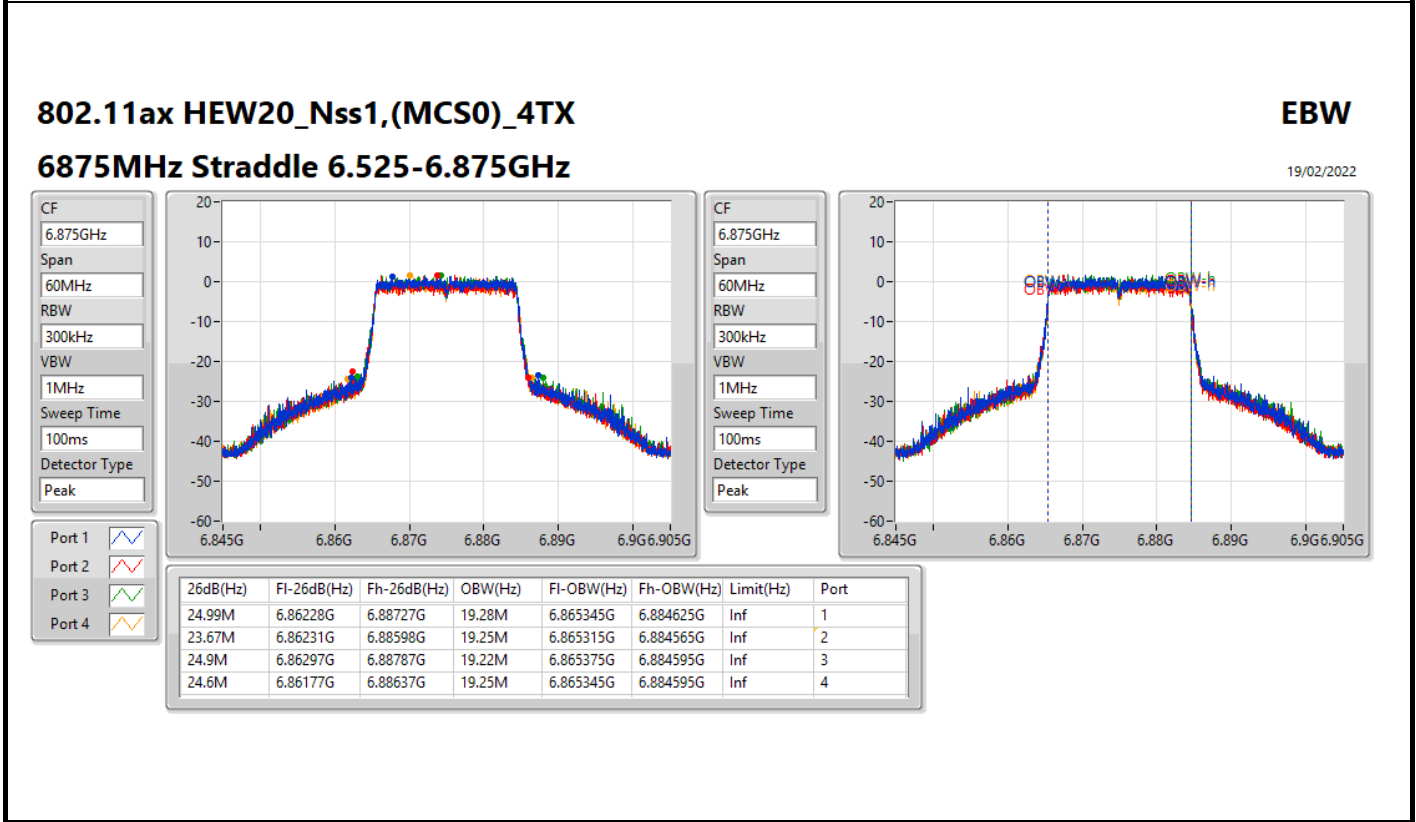
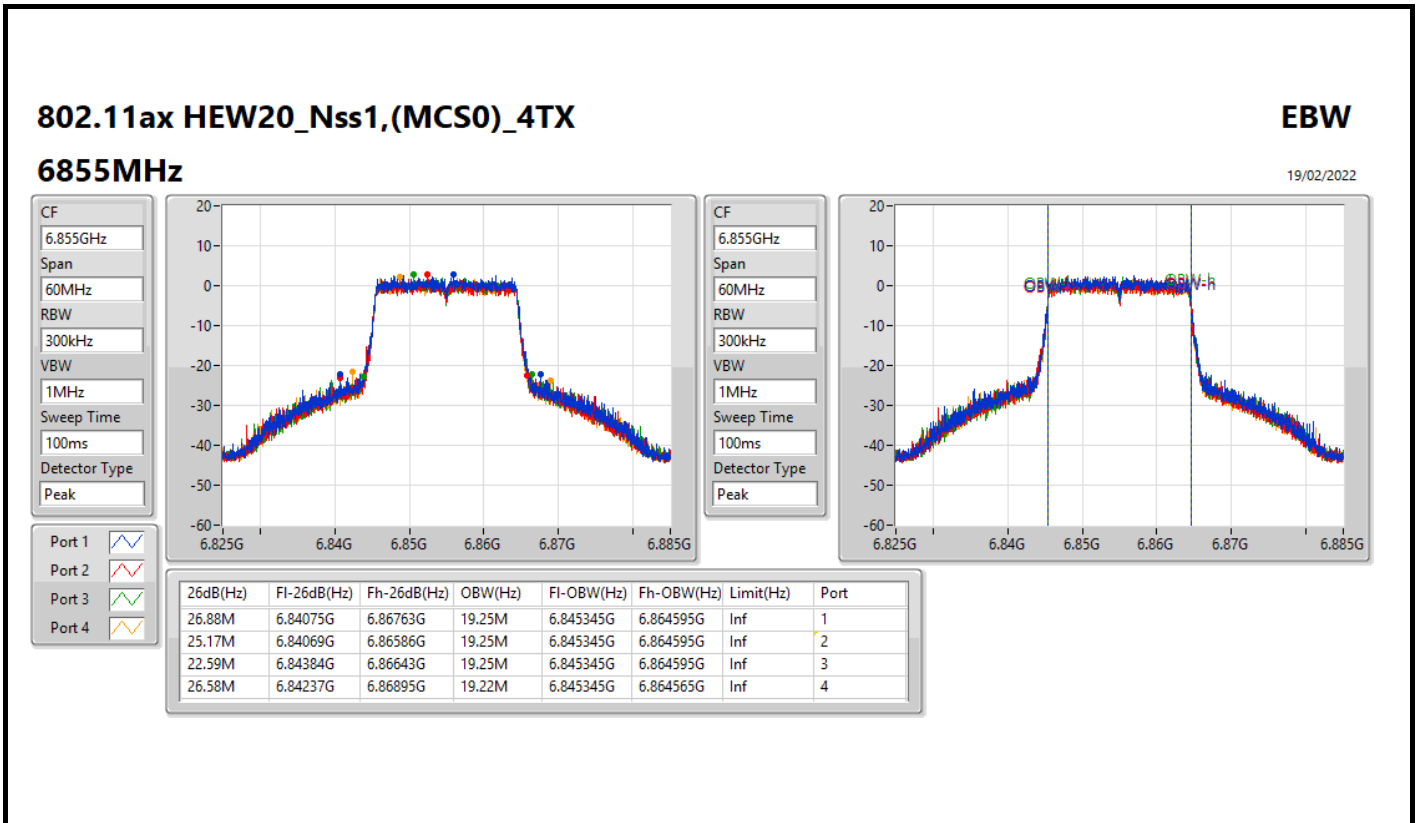


CF
6.695GHz
Span
60MHz
RBW
300kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



Port 1
Port 2
Port 3
Port 4

26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
22.98M	6.68348G	6.70646G	19.22M	6.685345G	6.704565G	Inf	1
26.04M	6.68291G	6.70895G	19.25M	6.685345G	6.704595G	Inf	2
24.27M	6.68201G	6.70628G	19.22M	6.685345G	6.704565G	Inf	3
23.22M	6.68351G	6.70673G	19.22M	6.685375G	6.704595G	Inf	4



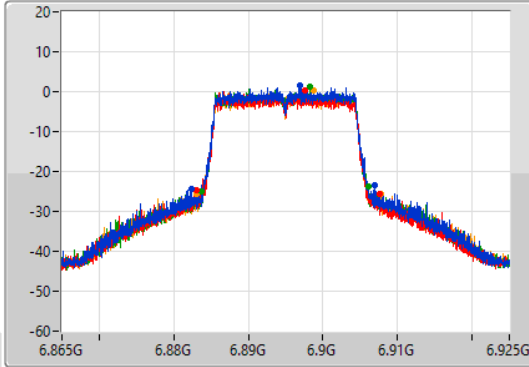
802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

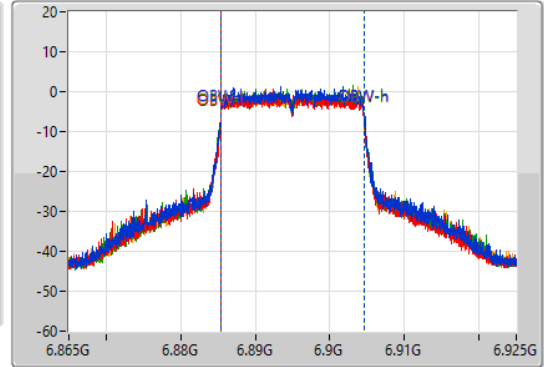
6895MHz

19/02/2022

CF
6.895GHz
Span
60MHz
RBW
300kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



CF
6.895GHz
Span
60MHz
RBW
300kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



Port 1
Port 2
Port 3
Port 4

26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
24.48M	6.8824G	6.90688G	19.28M	6.885345G	6.904625G	Inf	1
24.63M	6.88306G	6.90769G	19.25M	6.885345G	6.904595G	Inf	2
22.38M	6.88372G	6.9061G	19.28M	6.885315G	6.904595G	Inf	3
24.66M	6.88309G	6.90775G	19.22M	6.885375G	6.904595G	Inf	4

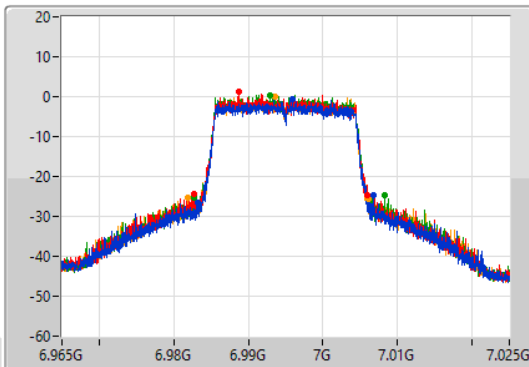
802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

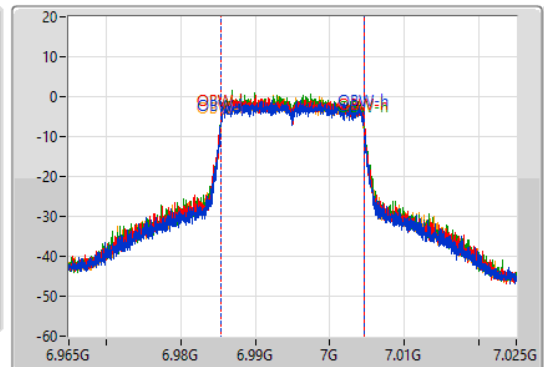
6995MHz

19/02/2022

CF
6.995GHz
Span
60MHz
RBW
300kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



CF
6.995GHz
Span
60MHz
RBW
300kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



Port 1
Port 2
Port 3
Port 4

26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
23.67M	6.98315G	7.00682G	19.22M	6.985315G	7.004535G	Inf	1
23.28M	6.9827G	7.00598G	19.28M	6.985315G	7.004595G	Inf	2
25.44M	6.98279G	7.00823G	19.25M	6.985315G	7.004565G	Inf	3
24.33M	6.9818G	7.00613G	19.19M	6.985345G	7.004535G	Inf	4

802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

7095MHz

19/02/2022



802.11ax HEW40_Nss1,(MCS0)_4TX

EBW

5965MHz

19/02/2022



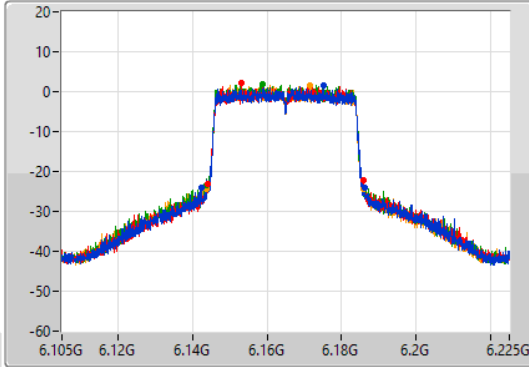
802.11ax HEW40_Nss1,(MCS0)_4TX

EBW

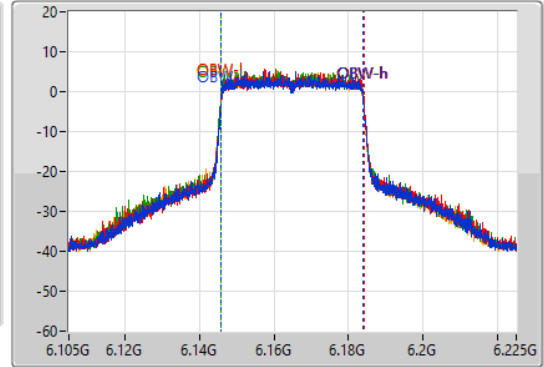
6165MHz

19/02/2022

CF
6.165GHz
Span
120MHz
RBW
500kHz
VBW
2MHz
Sweep Time
100ms
Detector Type
Peak



CF
6.165GHz
Span
120MHz
RBW
1MHz
VBW
3MHz
Sweep Time
100ms
Detector Type
Peak



Port 1
Port 2
Port 3
Port 4

26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
43.92M	6.14232G	6.18624G	38.201M	6.14581G	6.18401G	Inf	1
41.82M	6.14406G	6.18588G	38.141M	6.14593G	6.18407G	Inf	2
42.36M	6.14376G	6.18612G	38.201M	6.14581G	6.18401G	Inf	3
42.3M	6.1437G	6.186G	38.141M	6.14581G	6.183951G	Inf	4

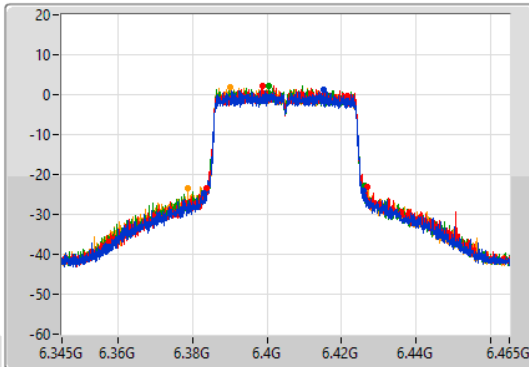
802.11ax HEW40_Nss1,(MCS0)_4TX

EBW

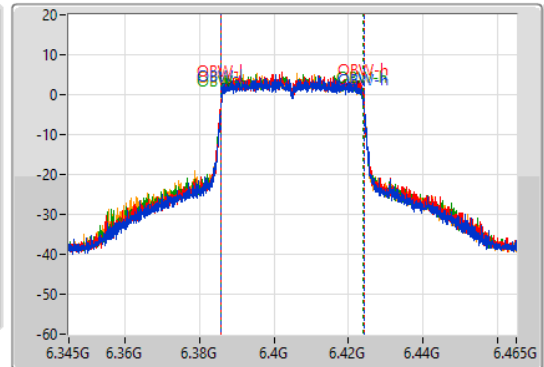
6405MHz

19/02/2022

CF
6.405GHz
Span
120MHz
RBW
500kHz
VBW
2MHz
Sweep Time
100ms
Detector Type
Peak



CF
6.405GHz
Span
120MHz
RBW
1MHz
VBW
3MHz
Sweep Time
100ms
Detector Type
Peak



Port 1
Port 2
Port 3
Port 4

26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
42.54M	6.38322G	6.42576G	38.201M	6.38587G	6.42407G	Inf	1
43.08M	6.3837G	6.42678G	38.261M	6.38581G	6.42407G	Inf	2
42.42M	6.38394G	6.42636G	38.201M	6.38581G	6.42401G	Inf	3
47.52M	6.37866G	6.42618G	38.201M	6.38581G	6.42401G	Inf	4

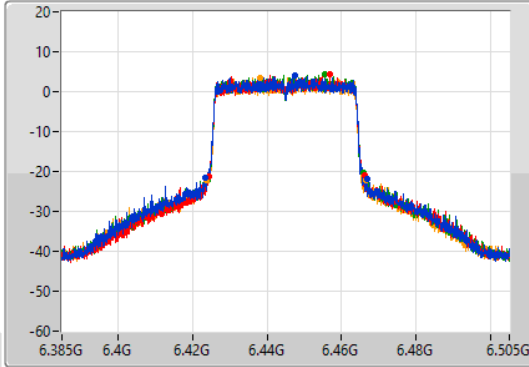
802.11ax HEW40_Nss1,(MCS0)_4TX

EBW

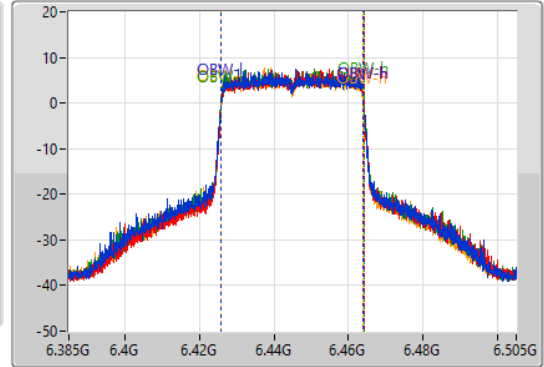
6445MHz

19/02/2022

CF
6.445GHz
Span
120MHz
RBW
500kHz
VBW
2MHz
Sweep Time
100ms
Detector Type
Peak



CF
6.445GHz
Span
120MHz
RBW
1MHz
VBW
3MHz
Sweep Time
100ms
Detector Type
Peak



Port 1
Port 2
Port 3
Port 4

26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
43.5M	6.42328G	6.46678G	38.141M	6.42587G	6.46401G	Inf	1
42M	6.42436G	6.46636G	38.141M	6.42593G	6.46407G	Inf	2
41.64M	6.42436G	6.466G	38.141M	6.42593G	6.46407G	Inf	3
43.08M	6.42364G	6.46672G	38.201M	6.42581G	6.46401G	Inf	4

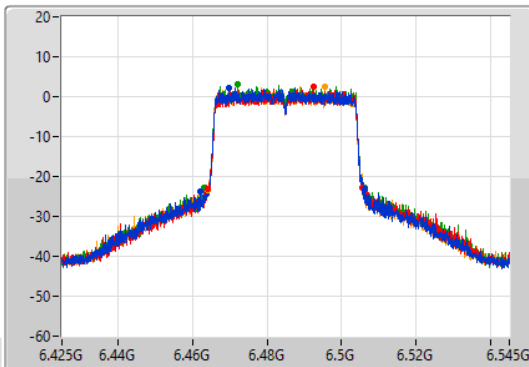
802.11ax HEW40_Nss1,(MCS0)_4TX

EBW

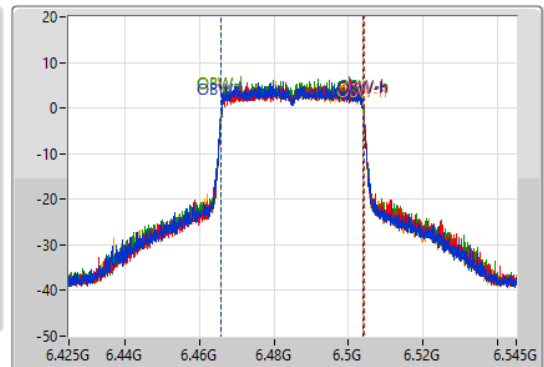
6485MHz

19/02/2022

CF
6.485GHz
Span
120MHz
RBW
500kHz
VBW
2MHz
Sweep Time
100ms
Detector Type
Peak

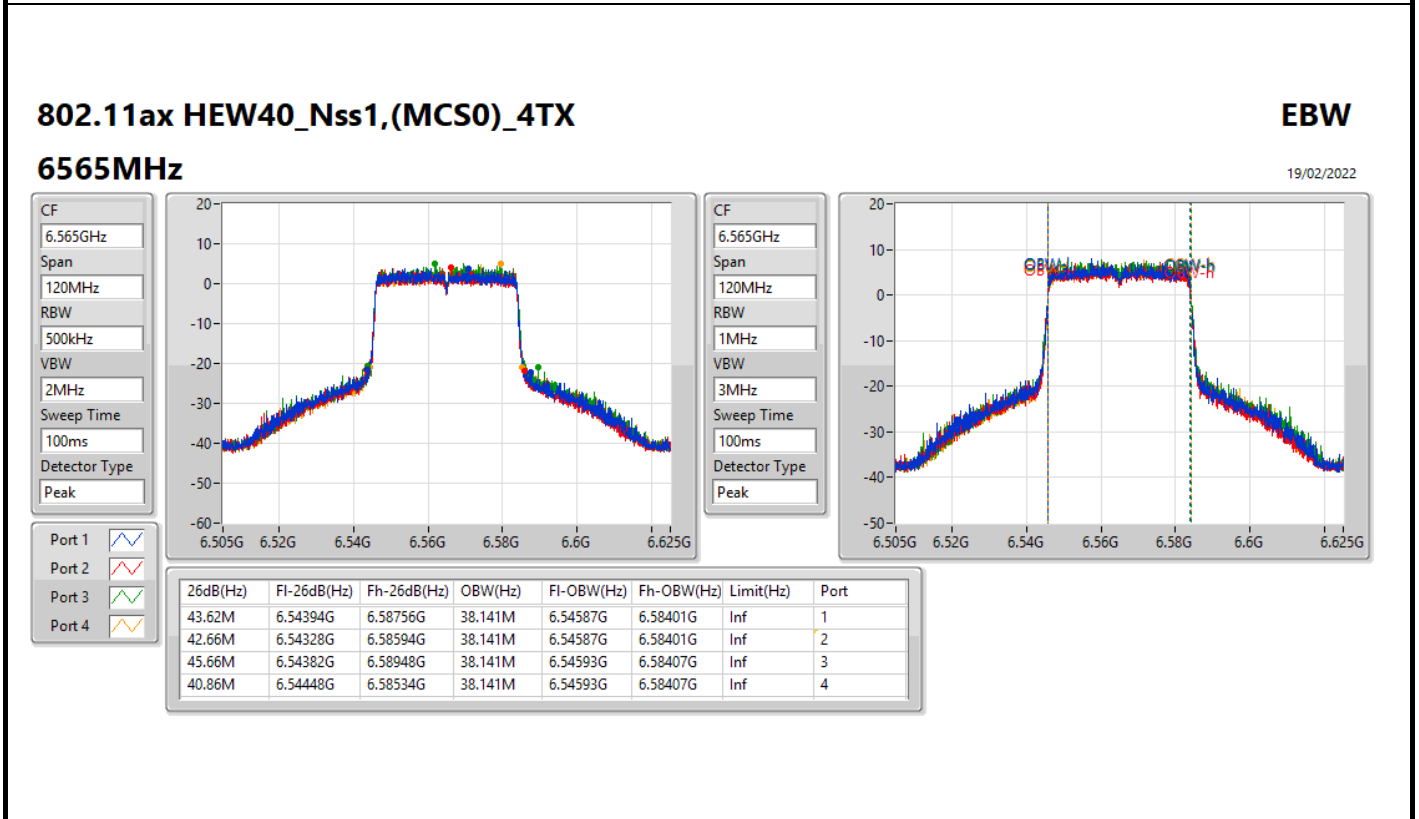
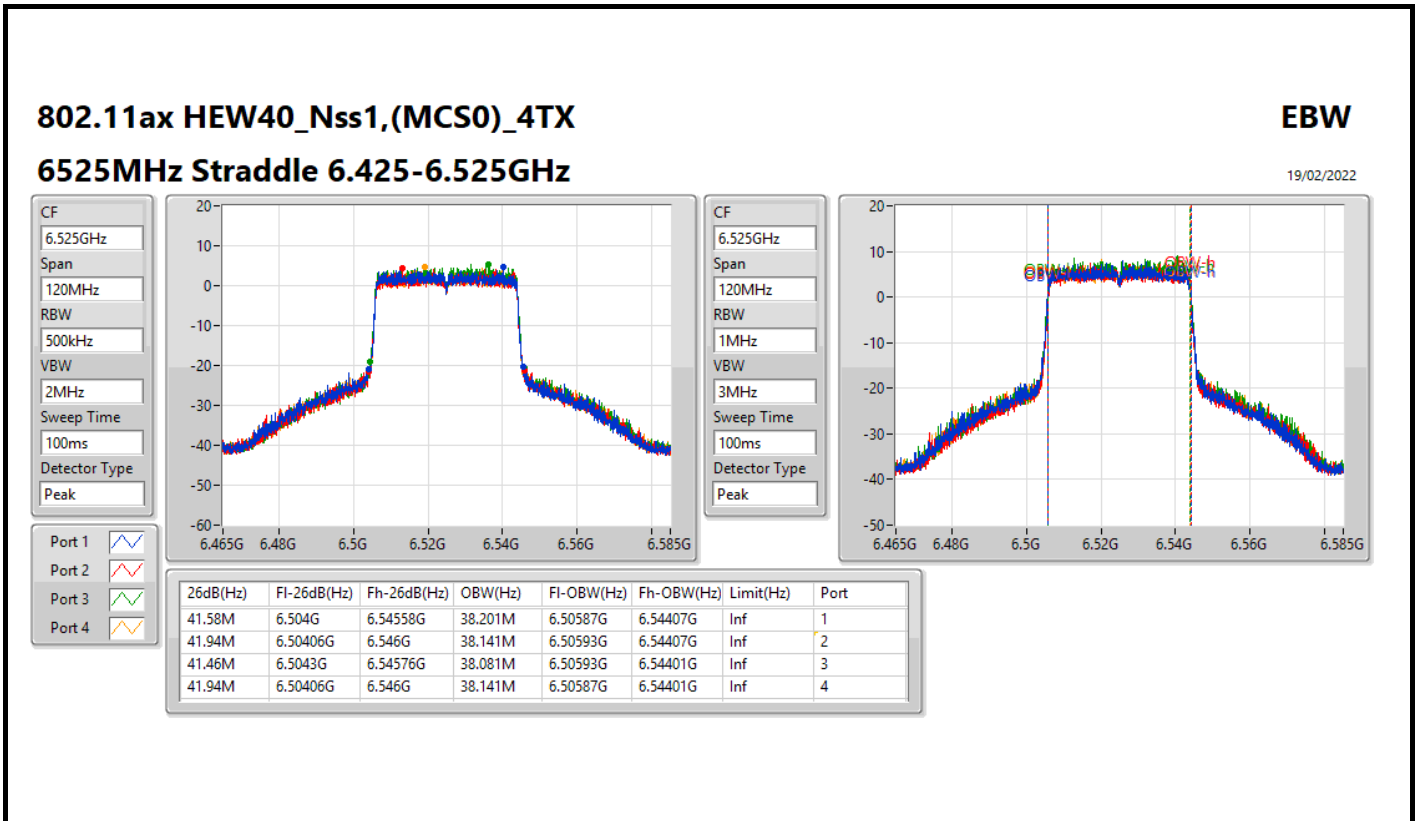


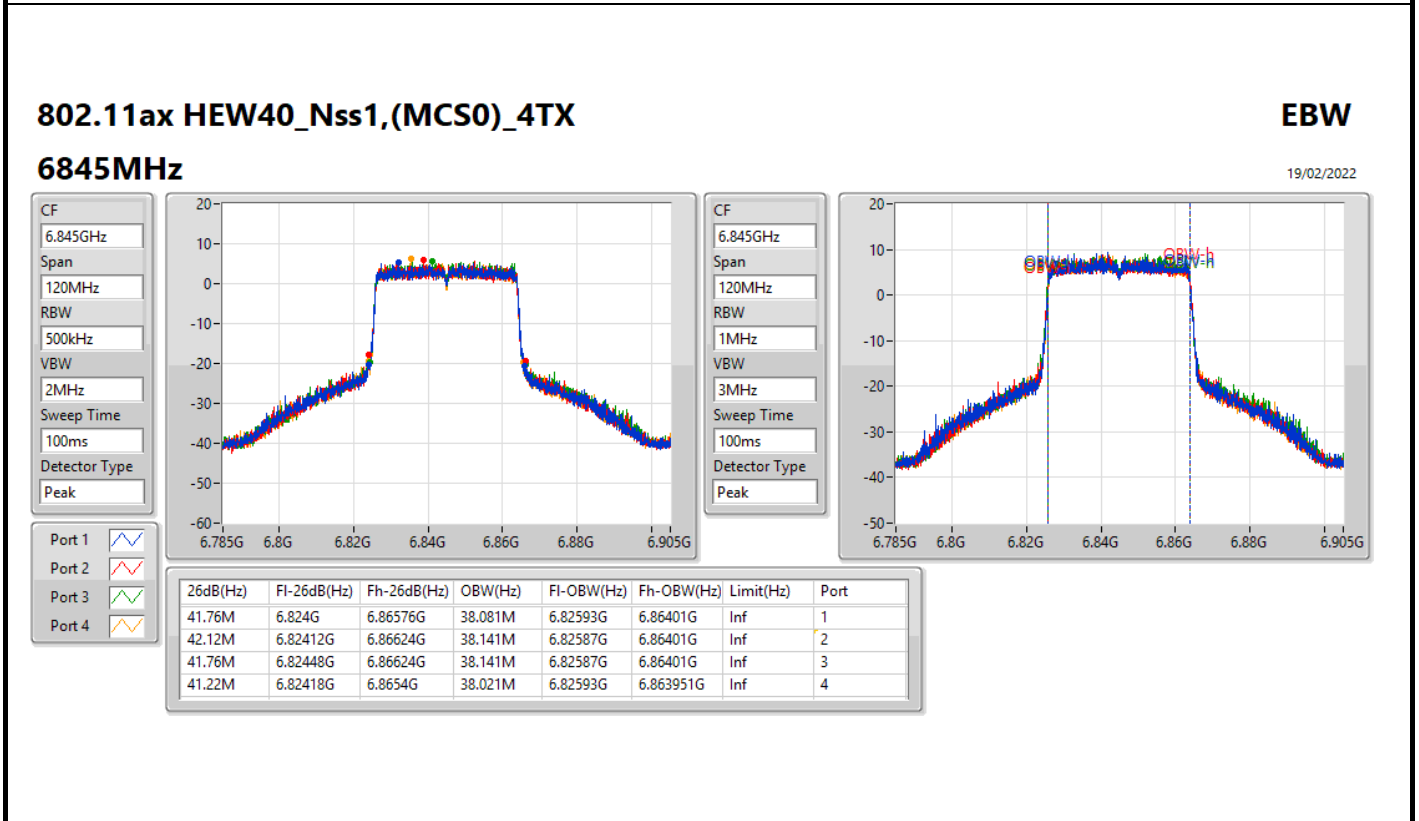
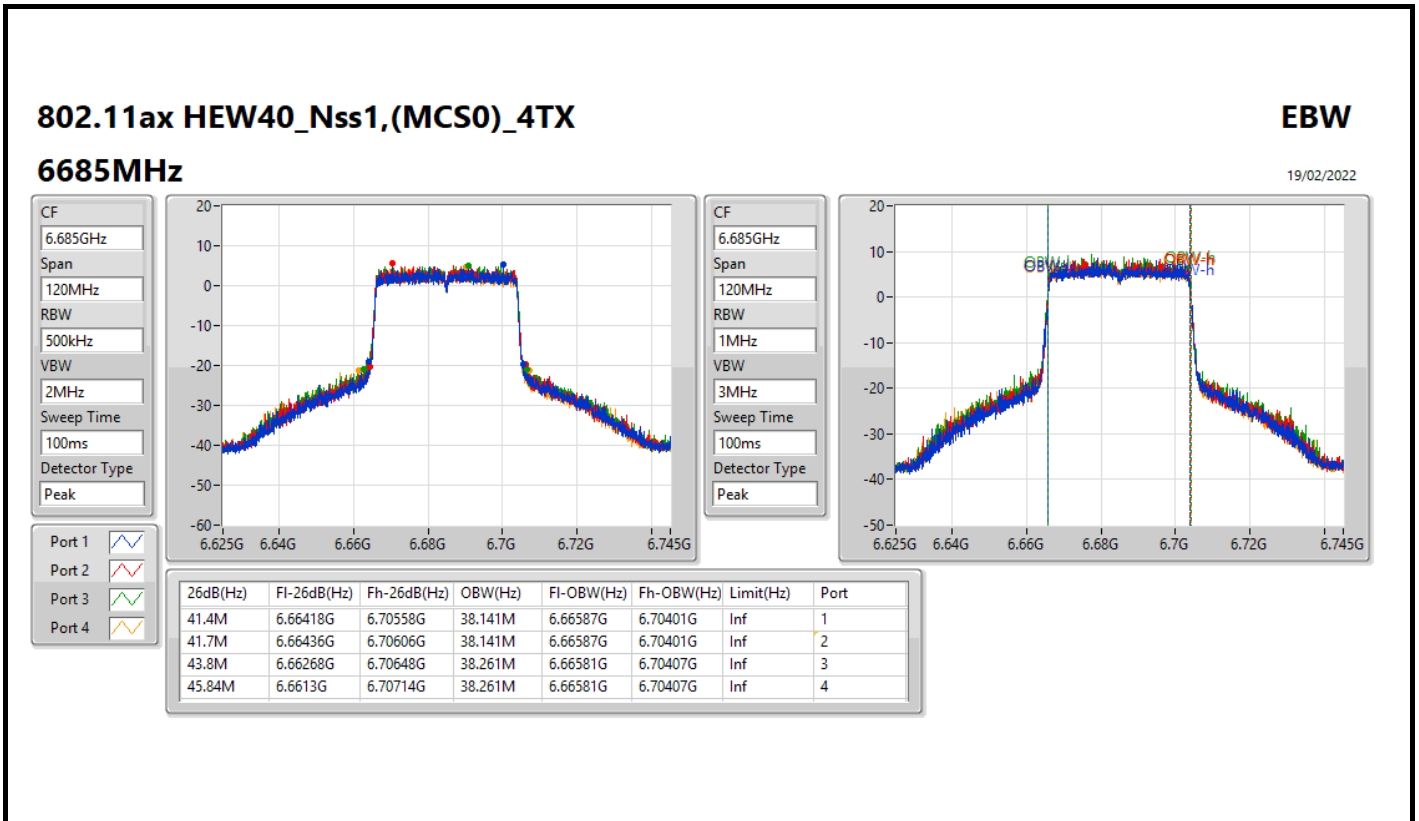
CF
6.485GHz
Span
120MHz
RBW
1MHz
VBW
3MHz
Sweep Time
100ms
Detector Type
Peak

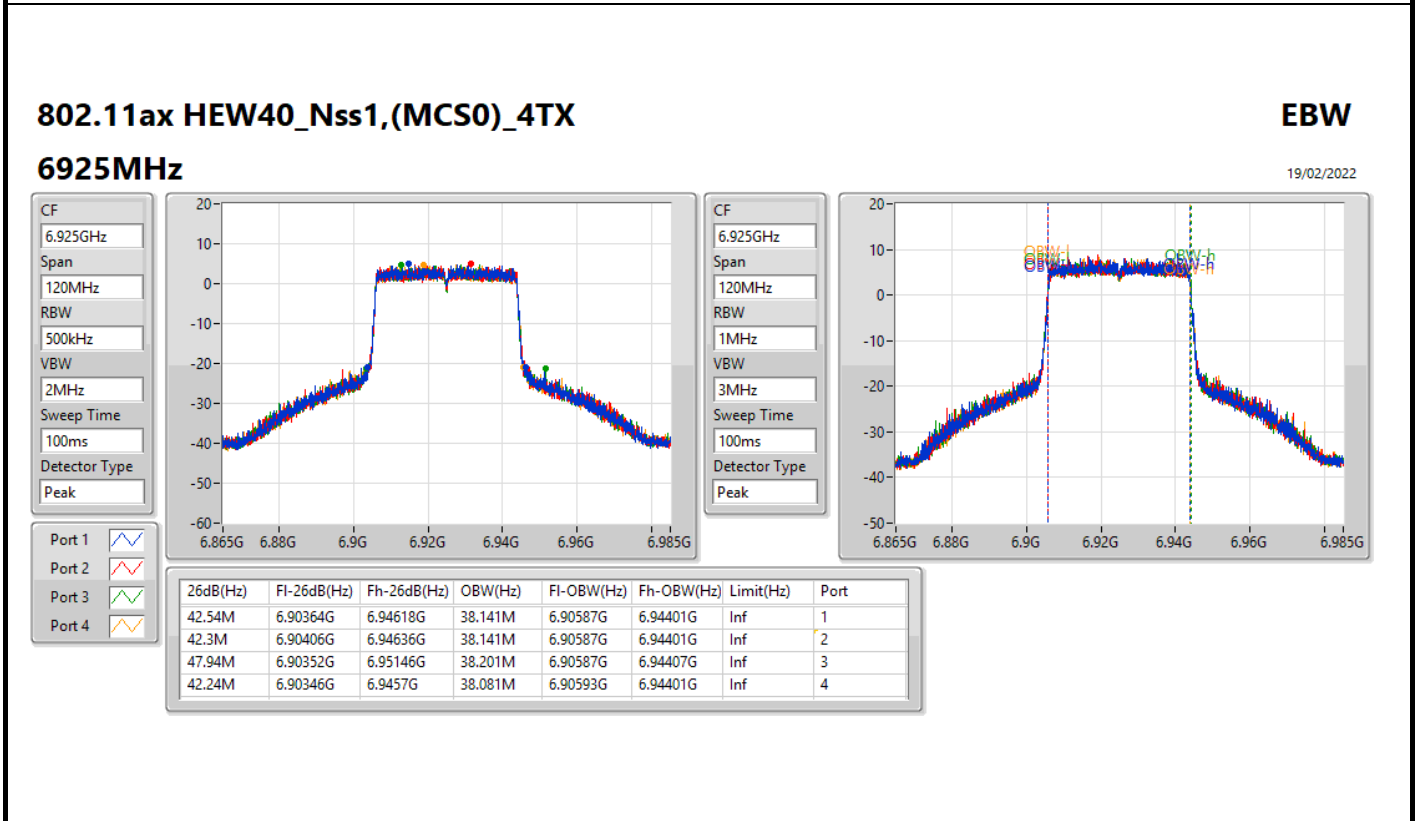
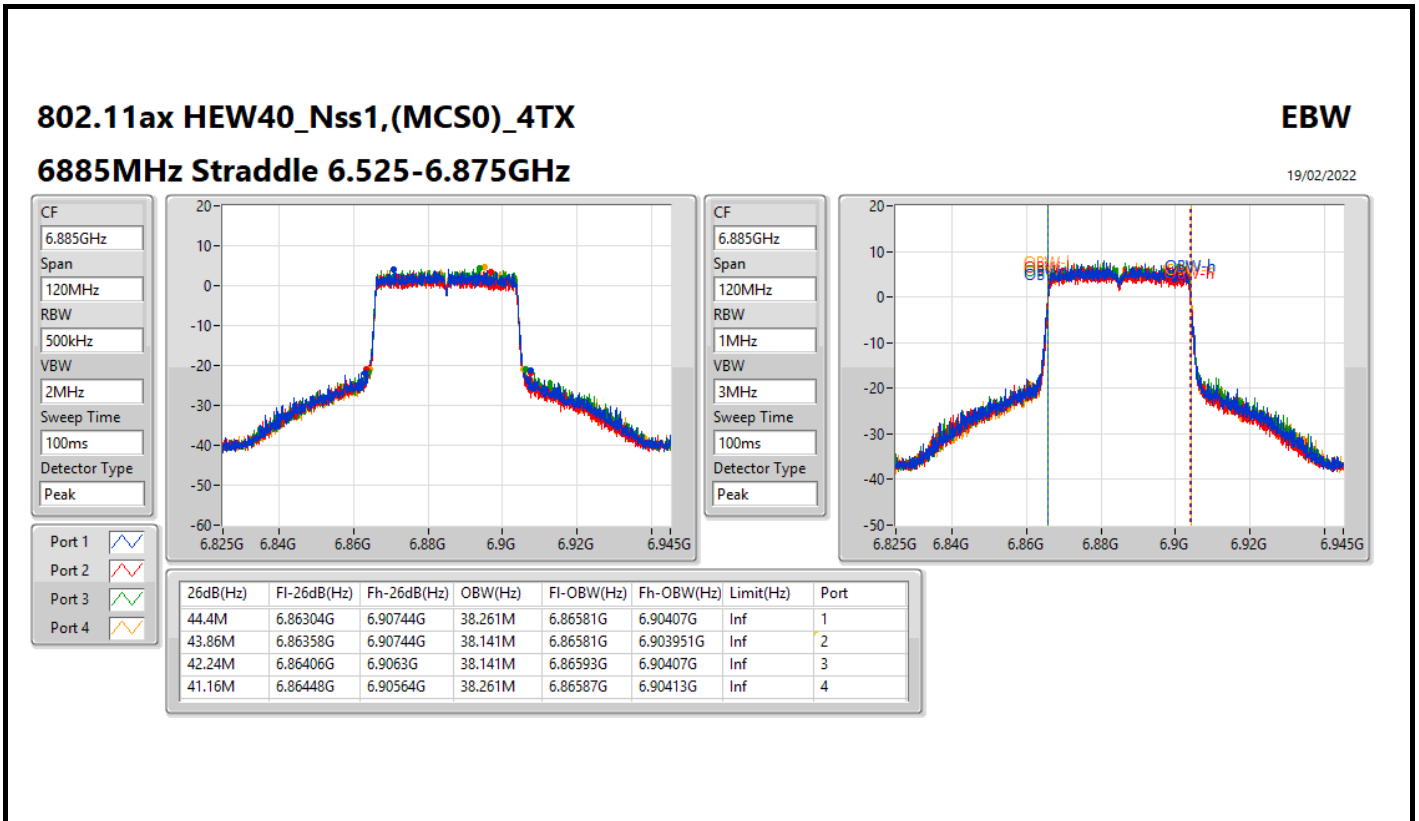


Port 1
Port 2
Port 3
Port 4

26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
44.04M	6.46214G	6.50618G	38.141M	6.46587G	6.50401G	Inf	1
41.46M	6.46418G	6.50564G	38.141M	6.46593G	6.50407G	Inf	2
42.84M	6.46322G	6.50606G	38.141M	6.46593G	6.50407G	Inf	3
42M	6.46406G	6.50606G	38.141M	6.46587G	6.50401G	Inf	4







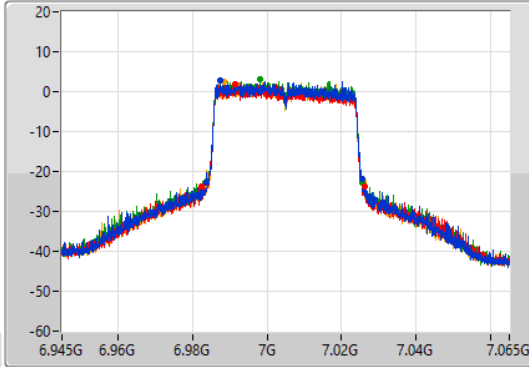
802.11ax HEW40_Nss1,(MCS0)_4TX

EBW

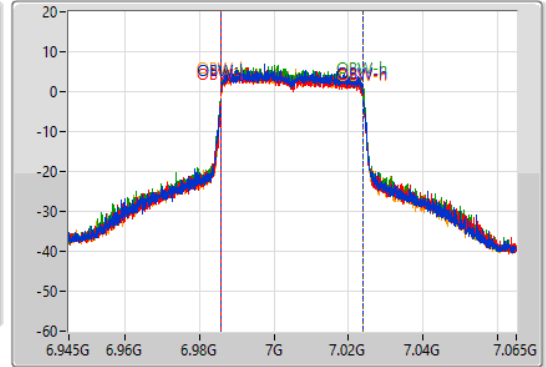
7005MHz

19/02/2022

CF
7.005GHz
Span
120MHz
RBW
500kHz
VBW
2MHz
Sweep Time
100ms
Detector Type
Peak



CF
7.005GHz
Span
120MHz
RBW
1MHz
VBW
3MHz
Sweep Time
100ms
Detector Type
Peak



Port 1
Port 2
Port 3
Port 4

26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
41.82M	6.98382G	7.02564G	38.081M	6.98581G	7.023891G	Inf	1
43.86M	6.98238G	7.02624G	38.141M	6.98581G	7.023951G	Inf	2
42.3M	6.98328G	7.02558G	38.141M	6.98581G	7.023951G	Inf	3
42.66M	6.9831G	7.02576G	38.081M	6.98587G	7.023951G	Inf	4

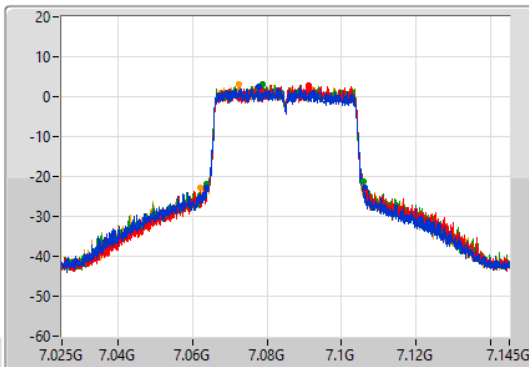
802.11ax HEW40_Nss1,(MCS0)_4TX

EBW

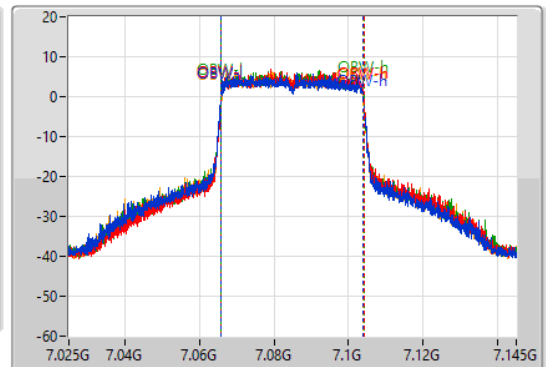
7085MHz

19/02/2022

CF
7.085GHz
Span
120MHz
RBW
500kHz
VBW
2MHz
Sweep Time
100ms
Detector Type
Peak

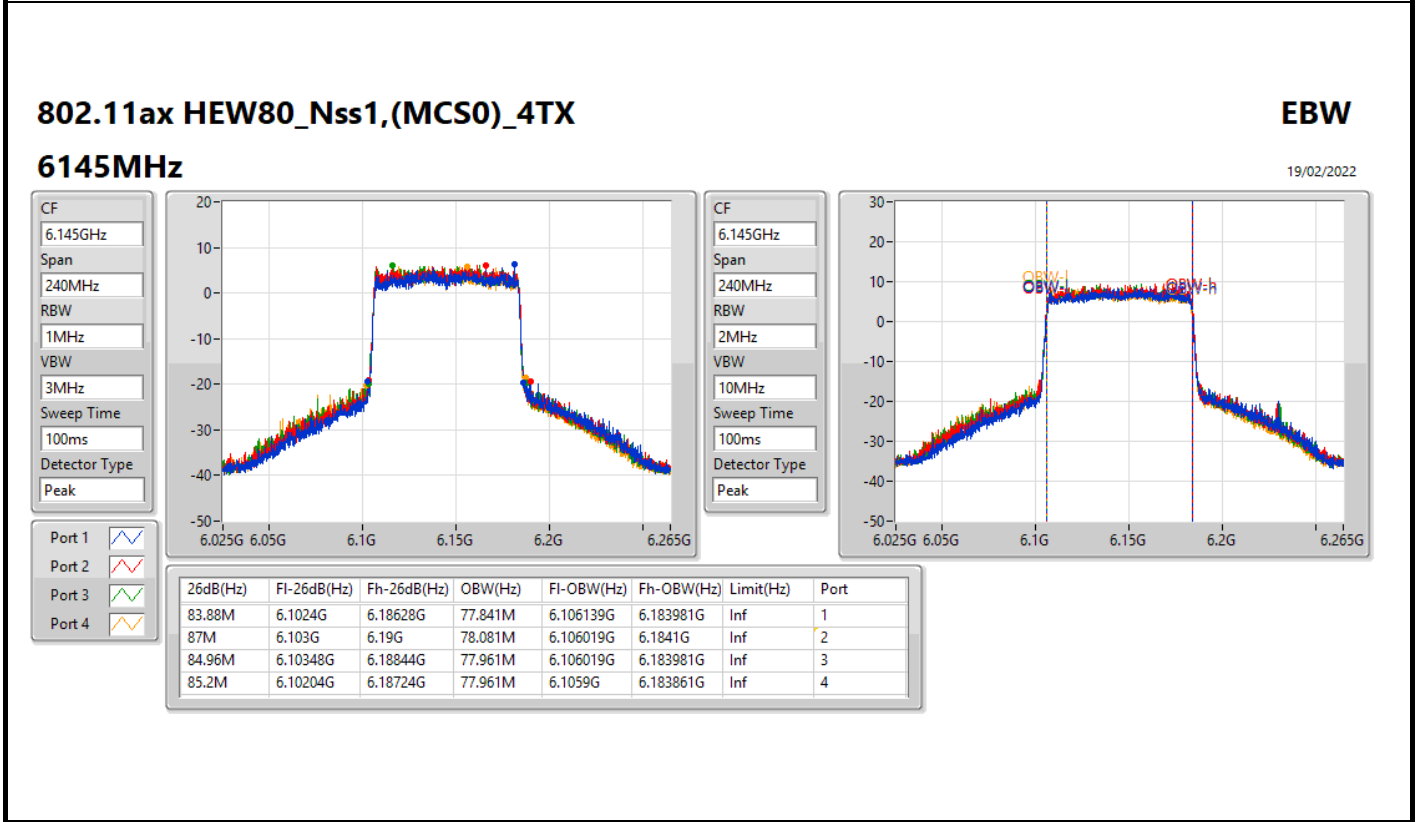
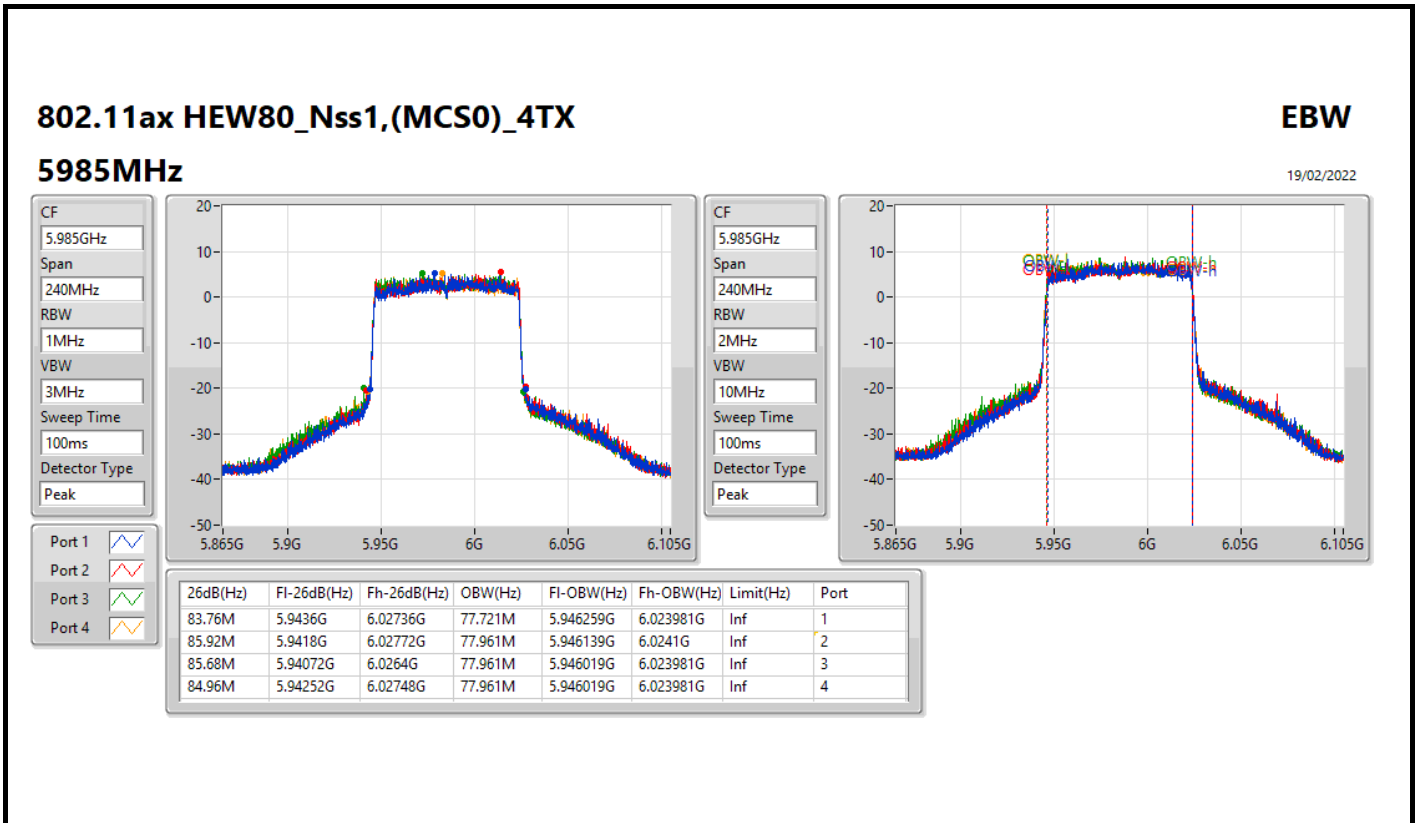


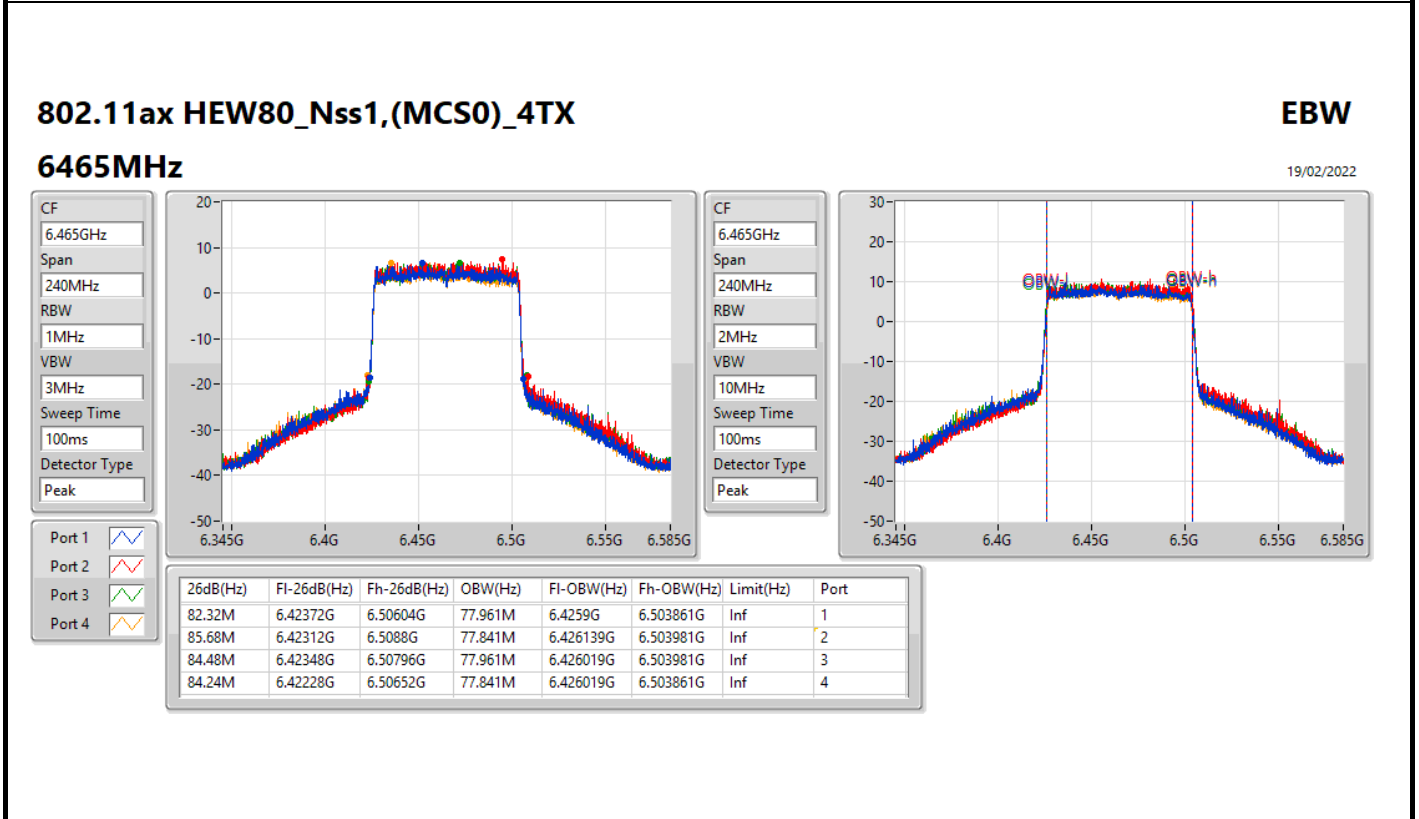
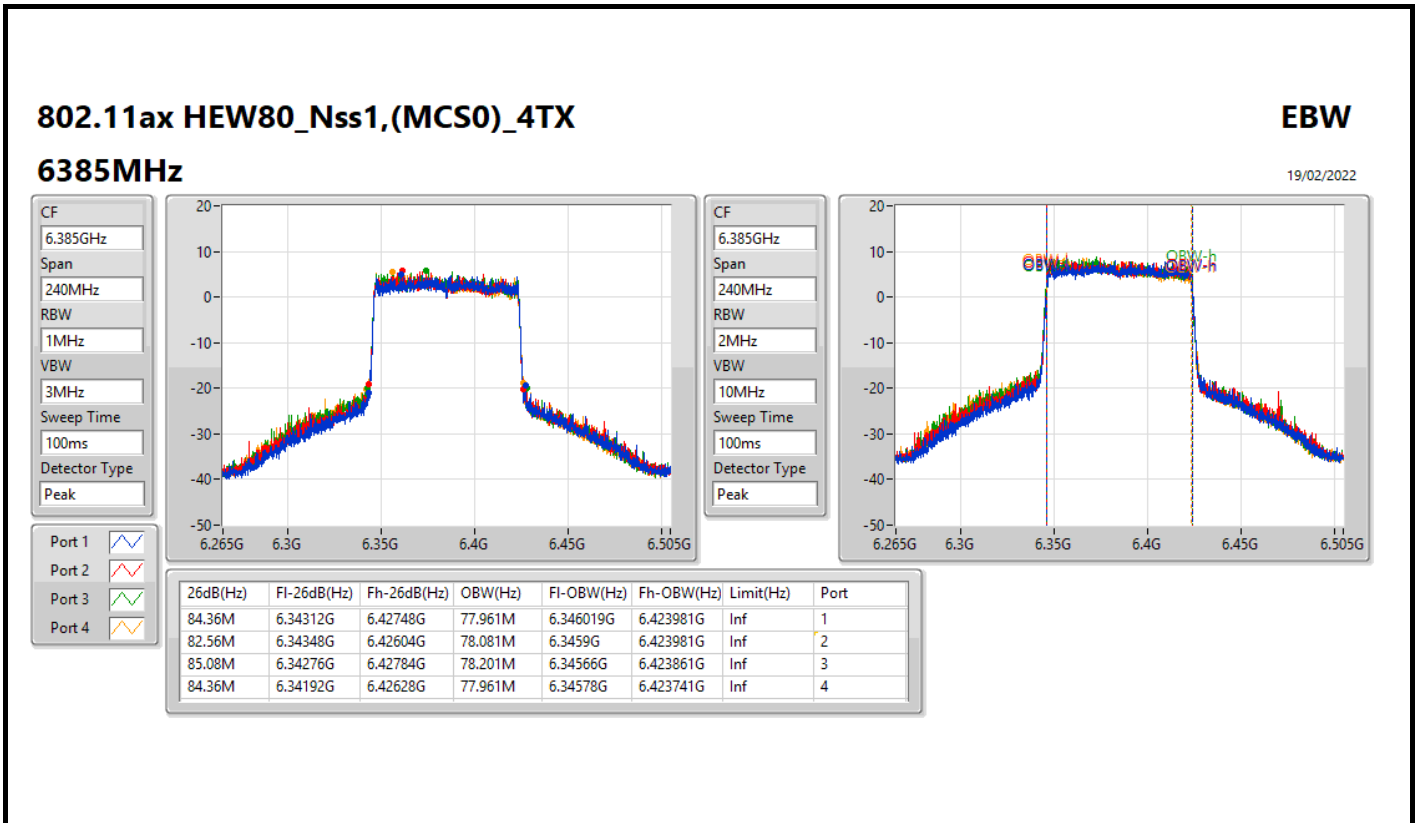
CF
7.085GHz
Span
120MHz
RBW
1MHz
VBW
3MHz
Sweep Time
100ms
Detector Type
Peak

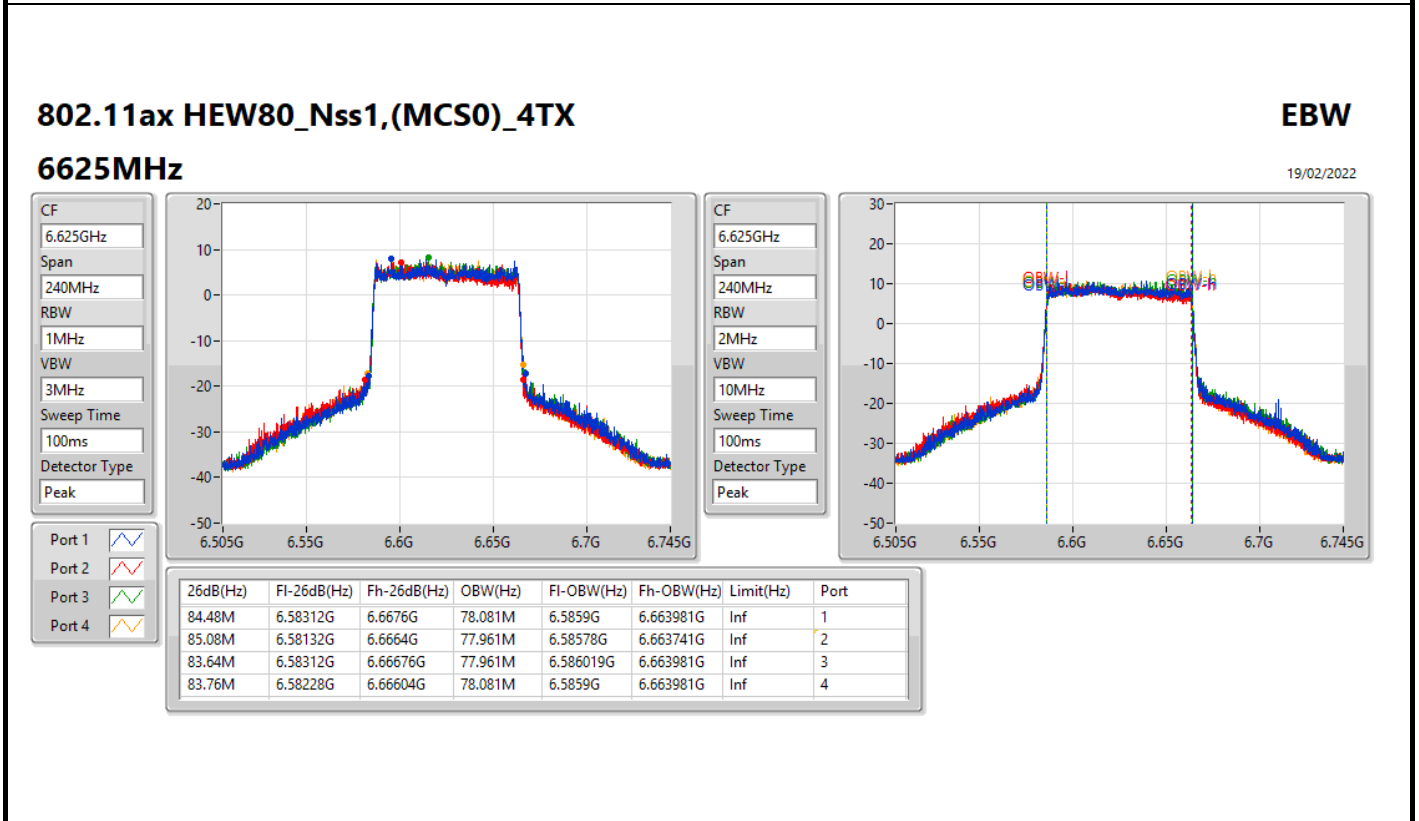
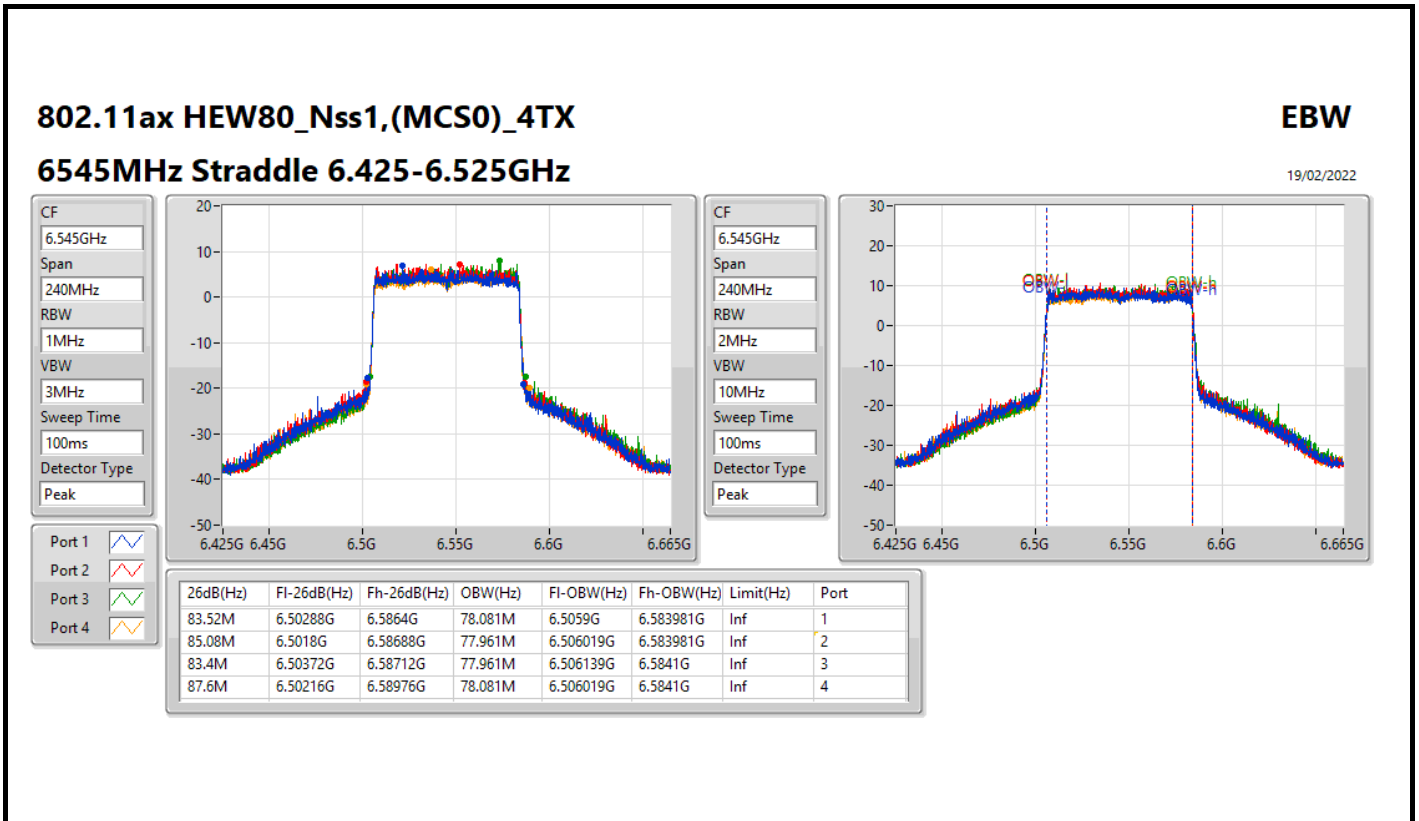


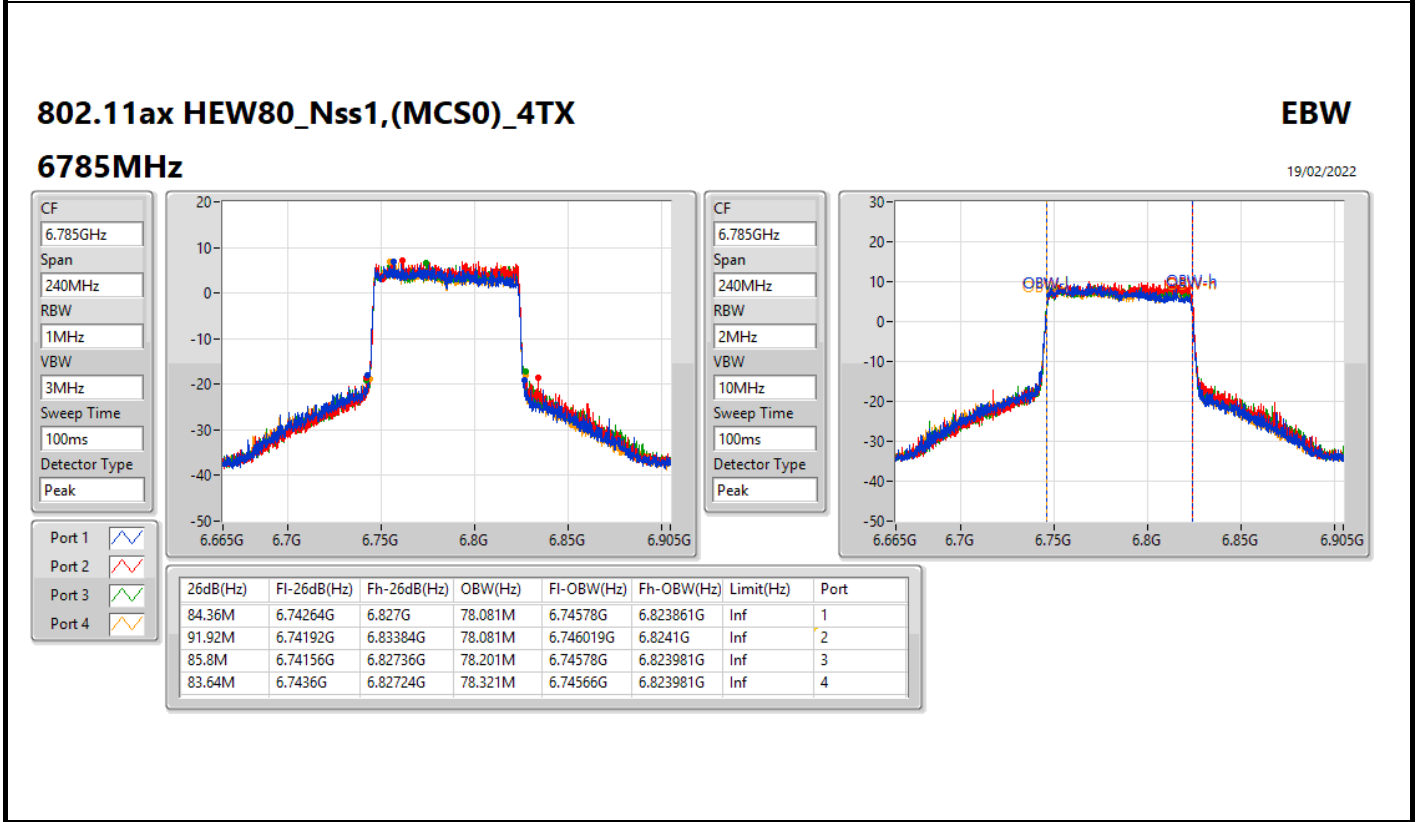
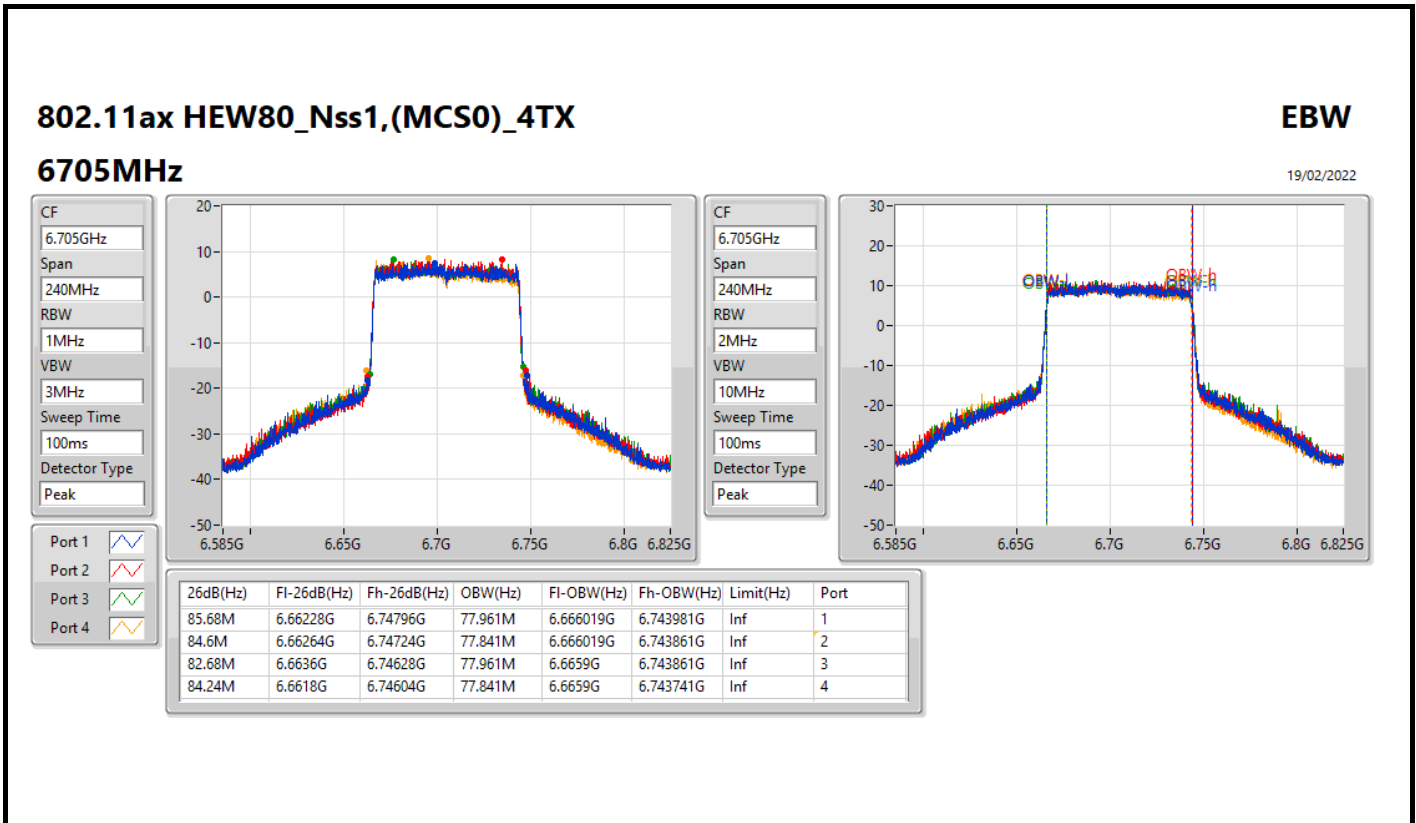
Port 1
Port 2
Port 3
Port 4

26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
42.42M	7.06364G	7.10606G	38.201M	7.06581G	7.10401G	Inf	1
42.48M	7.06388G	7.10636G	38.141M	7.06593G	7.10407G	Inf	2
42M	7.06382G	7.10582G	38.201M	7.06587G	7.10407G	Inf	3
43.5M	7.06226G	7.10576G	38.141M	7.06587G	7.10401G	Inf	4







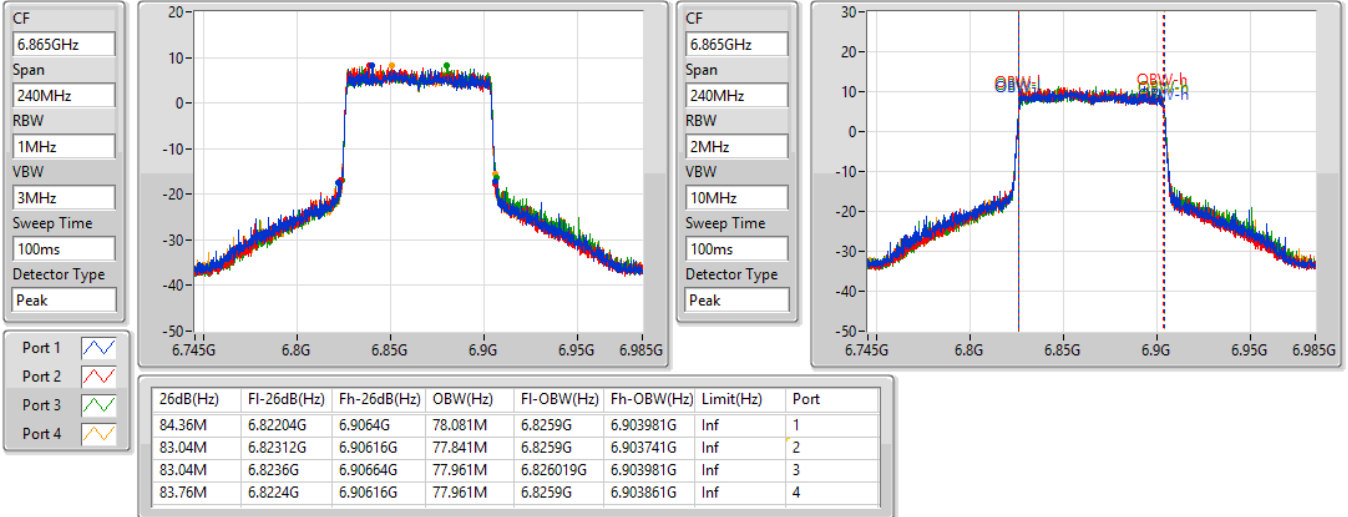


802.11ax HEW80_Nss1,(MCS0)_4TX

EBW

6865MHz Straddle 6.525-6.875GHz

19/02/2022



802.11ax HEW80_Nss1,(MCS0)_4TX

EBW

6945MHz

19/02/2022

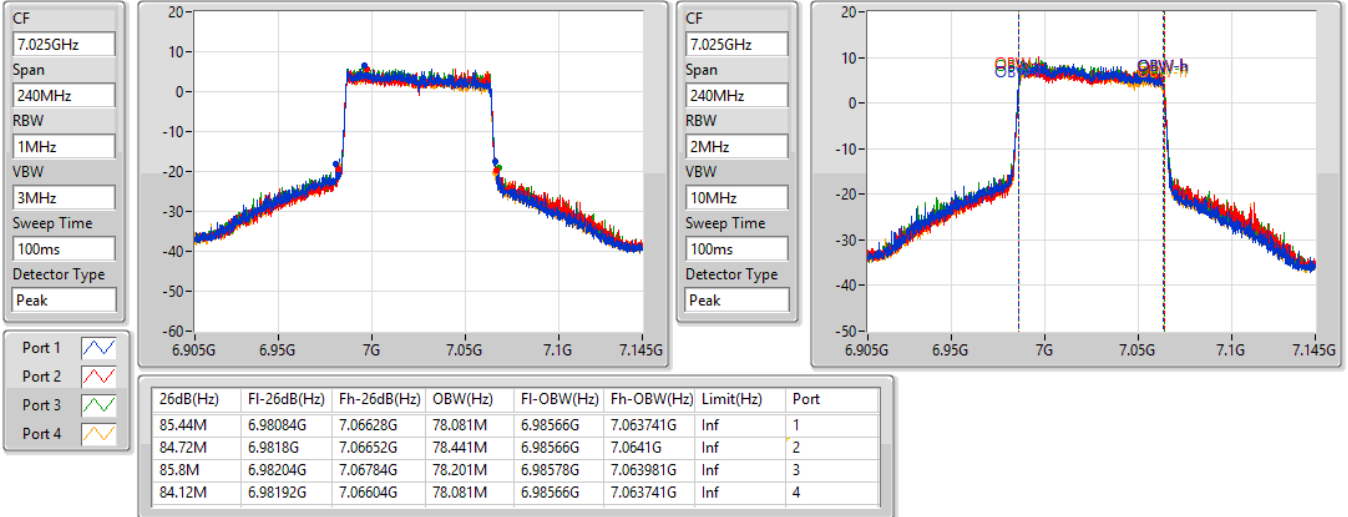


802.11ax HEW80_Nss1,(MCS0)_4TX

EBW

7025MHz

19/02/2022

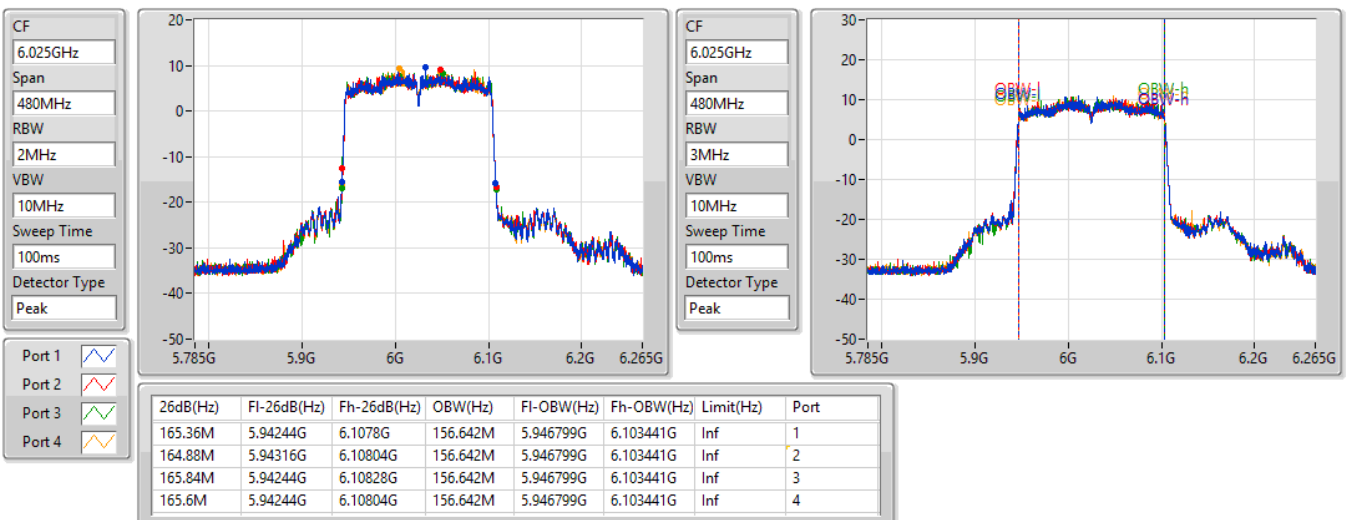


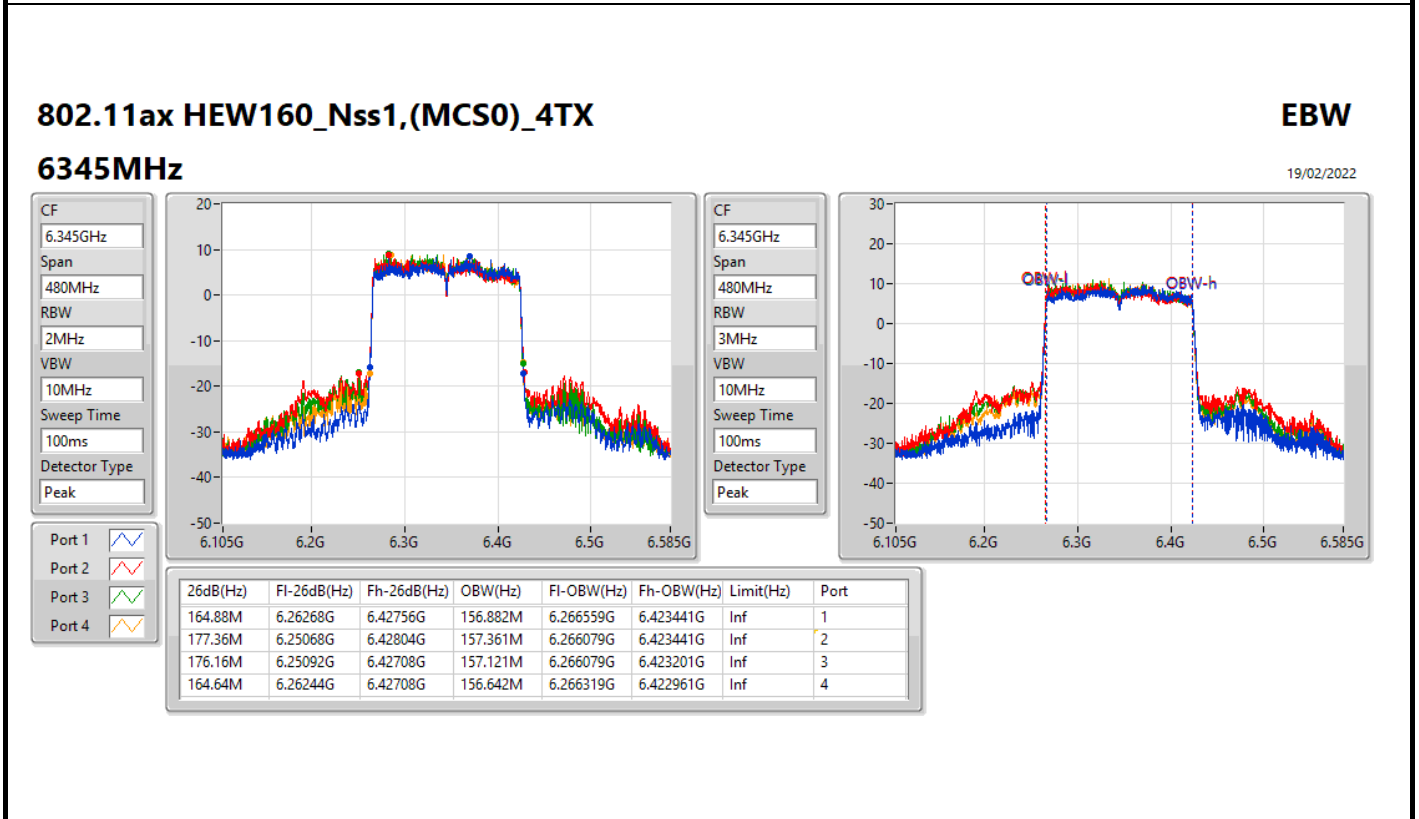
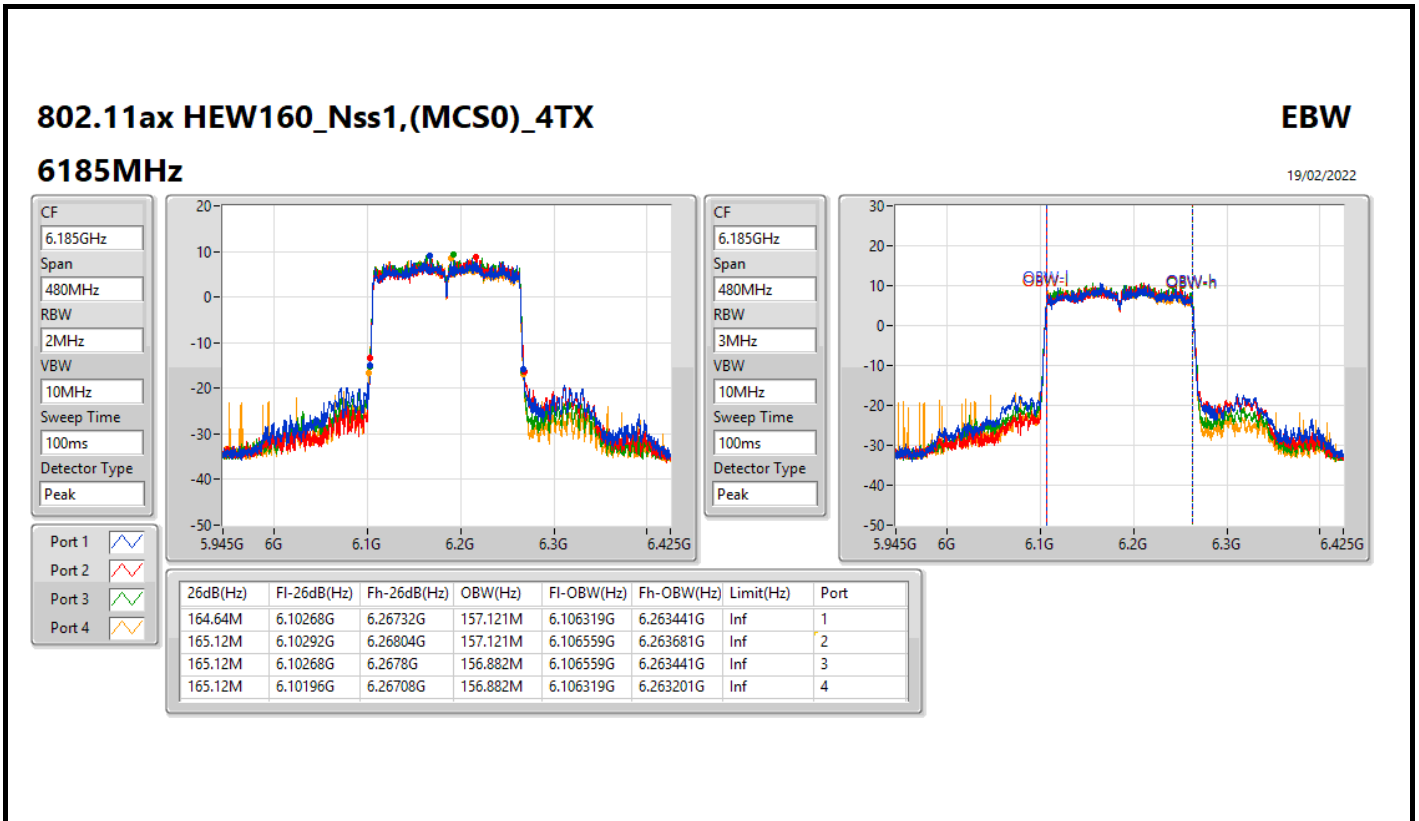
802.11ax HEW160_Nss1,(MCS0)_4TX

EBW

6025MHz

19/02/2022



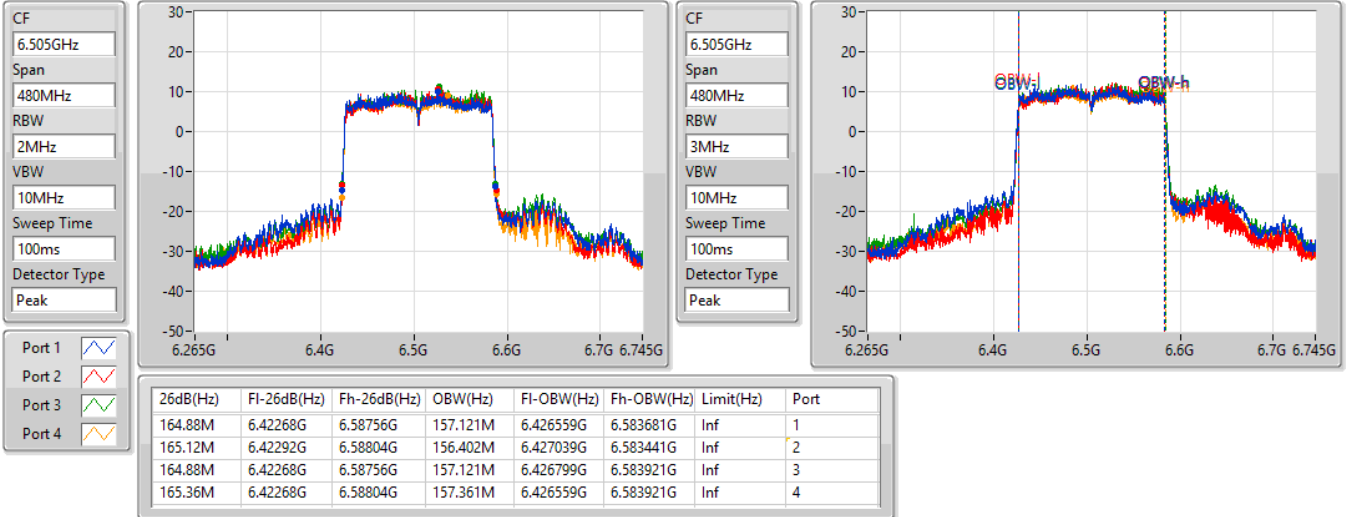


802.11ax HEW160_Nss1,(MCS0)_4TX

EBW

6505MHz Straddle 6.425-6.525GHz

19/02/2022

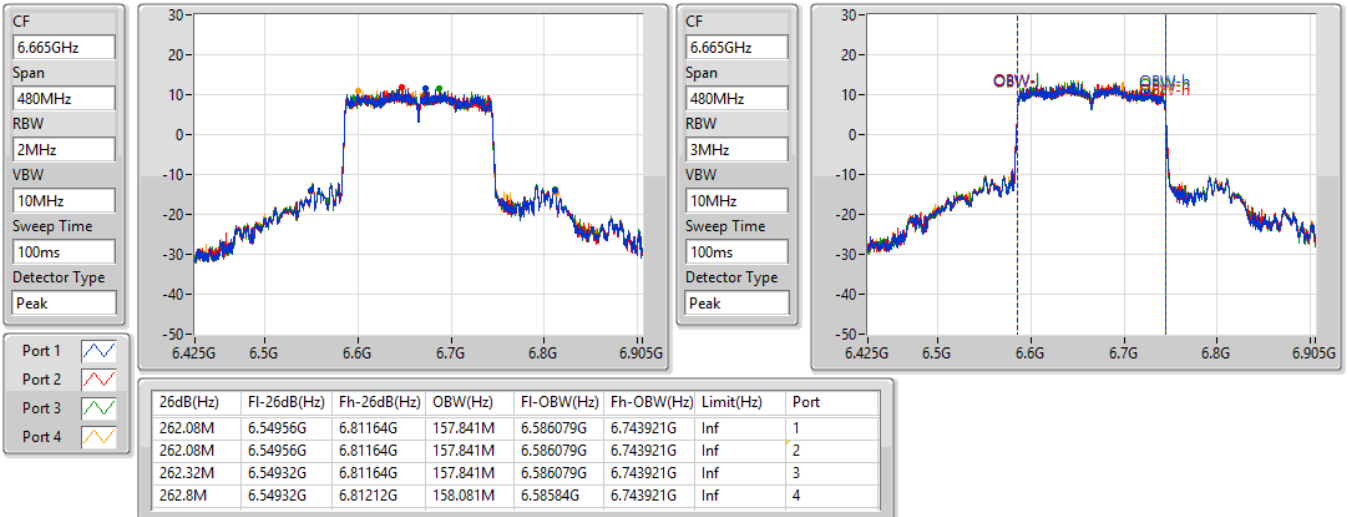


802.11ax HEW160_Nss1,(MCS0)_4TX

EBW

6665MHz

19/02/2022

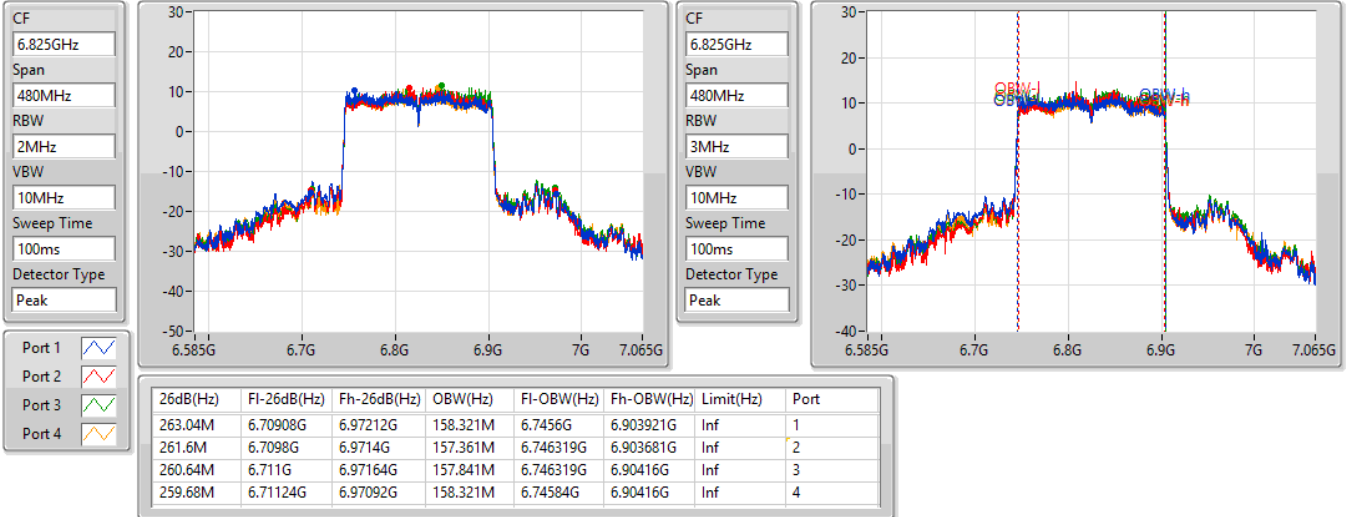


802.11ax HEW160_Nss1,(MCS0)_4TX

EBW

6825MHz Straddle 6.525-6.875GHz

19/02/2022

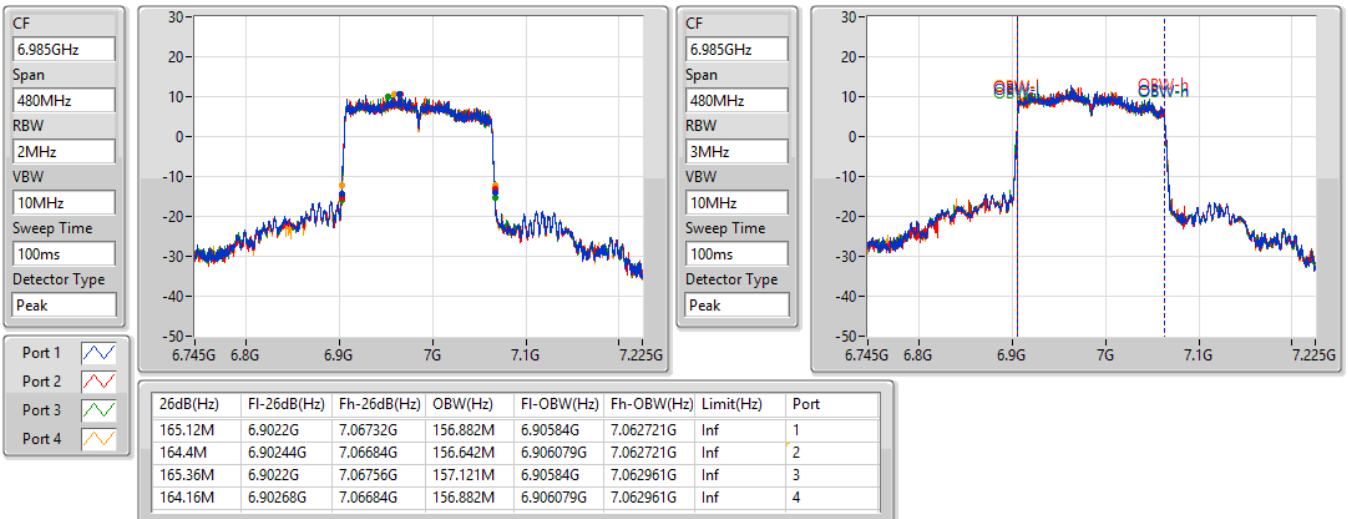


802.11ax HEW160_Nss1,(MCS0)_4TX

EBW

6985MHz

19/02/2022





Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.925-6.425GHz	-	-	-	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	28.35M	19.31M	19M3D1D	22.68M	19.19M
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	46.38M	38.261M	38M3D1D	41.58M	38.081M
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	93M	78.081M	78M1D1D	82.68M	77.721M
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	165.84M	157.361M	157MD1D	164.64M	156.642M
6.425-6.525GHz	-	-	-	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	25.89M	19.25M	19M2D1D	22.29M	19.22M
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	45M	38.201M	38M2D1D	40.44M	38.021M
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	87.48M	78.081M	78M1D1D	82.2M	77.721M
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	215.52M	157.361M	157MD1D	165.12M	156.882M
6.525-6.875GHz	-	-	-	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	26.58M	19.28M	19M3D1D	22.17M	19.19M
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	43.86M	38.201M	38M2D1D	41.28M	38.081M
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	86.28M	78.081M	78M1D1D	82.32M	77.841M
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	166.08M	158.081M	158MD1D	164.64M	157.121M
6.875-7.125GHz	-	-	-	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	27.93M	19.31M	19M3D1D	22.65M	19.19M
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	45.6M	38.261M	38M3D1D	41.28M	38.081M
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	85.08M	78.201M	78M2D1D	83.64M	77.841M
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	164.4M	157.361M	157MD1D	163.92M	157.121M

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



Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)	Port 3-N dB (Hz)	Port 3-OBW (Hz)	Port 4-N dB (Hz)	Port 4-OBW (Hz)
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5955MHz	Pass	Inf	23.46M	19.25M	26.01M	19.28M	23.49M	19.28M	23.34M	19.25M
6175MHz	Pass	Inf	23.94M	19.31M	28.35M	19.28M	24.78M	19.28M	23.79M	19.19M
6415MHz	Pass	Inf	27.3M	19.25M	22.68M	19.25M	26.46M	19.25M	22.95M	19.28M
6435MHz	Pass	Inf	23.49M	19.22M	23.7M	19.22M	25.17M	19.25M	23.16M	19.22M
6475MHz	Pass	Inf	24.63M	19.25M	25.26M	19.25M	22.29M	19.25M	25.59M	19.22M
6515MHz	Pass	Inf	23.13M	19.25M	22.44M	19.22M	25.89M	19.22M	22.86M	19.22M
6535MHz	Pass	Inf	23.76M	19.25M	22.17M	19.25M	23.94M	19.25M	24.51M	19.25M
6695MHz	Pass	Inf	25.14M	19.25M	25.53M	19.25M	22.56M	19.25M	23.1M	19.25M
6855MHz	Pass	Inf	24.21M	19.28M	26.25M	19.25M	22.23M	19.22M	24.42M	19.25M
6875MHz Straddle 6.525-6.875GHz	Pass	Inf	26.58M	19.28M	22.5M	19.22M	25.95M	19.25M	23.19M	19.19M
6895MHz	Pass	Inf	24.93M	19.31M	22.98M	19.22M	22.89M	19.28M	24.3M	19.19M
6995MHz	Pass	Inf	26.4M	19.25M	23.64M	19.22M	24.15M	19.28M	24.99M	19.25M
7095MHz	Pass	Inf	27.93M	19.25M	22.65M	19.25M	25.44M	19.25M	27.72M	19.22M
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5965MHz	Pass	Inf	43.44M	38.141M	41.7M	38.201M	42.24M	38.201M	42.36M	38.201M
6165MHz	Pass	Inf	43.02M	38.141M	42.6M	38.081M	41.58M	38.261M	43.68M	38.141M
6405MHz	Pass	Inf	44.88M	38.141M	43.56M	38.141M	45.3M	38.081M	46.38M	38.261M
6445MHz	Pass	Inf	45M	38.141M	41.64M	38.141M	41.76M	38.021M	42.12M	38.201M
6485MHz	Pass	Inf	41.76M	38.141M	42.3M	38.201M	40.44M	38.081M	41.88M	38.141M
6525MHz Straddle 6.425-6.525GHz	Pass	Inf	43.02M	38.141M	42.18M	38.201M	41.1M	38.021M	42.06M	38.201M
6565MHz	Pass	Inf	42.12M	38.201M	42.18M	38.141M	41.88M	38.141M	42.96M	38.141M
6685MHz	Pass	Inf	43.02M	38.141M	42M	38.141M	43.32M	38.141M	41.52M	38.141M
6845MHz	Pass	Inf	43.14M	38.081M	42M	38.081M	41.28M	38.081M	41.88M	38.081M
6885MHz Straddle 6.525-6.875GHz	Pass	Inf	41.52M	38.201M	41.94M	38.141M	43.86M	38.201M	42.6M	38.201M
6925MHz	Pass	Inf	42.66M	38.141M	41.28M	38.201M	41.7M	38.261M	42.06M	38.141M
7005MHz	Pass	Inf	44.4M	38.141M	45.6M	38.141M	42.24M	38.081M	42.84M	38.081M
7085MHz	Pass	Inf	42M	38.141M	41.82M	38.081M	41.94M	38.141M	41.76M	38.141M
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5985MHz	Pass	Inf	83.16M	77.721M	83.52M	77.721M	82.92M	77.961M	84.24M	77.841M
6145MHz	Pass	Inf	82.68M	77.841M	84.48M	77.841M	85.92M	77.961M	83.52M	77.961M
6385MHz	Pass	Inf	84.48M	77.841M	93M	78.081M	85.8M	77.961M	82.92M	78.081M
6465MHz	Pass	Inf	83.52M	77.961M	83.16M	77.961M	82.2M	77.841M	82.68M	77.961M
6545MHz Straddle 6.425-6.525GHz	Pass	Inf	86.52M	78.081M	87.48M	77.721M	83.88M	78.081M	86.52M	78.081M
6625MHz	Pass	Inf	82.8M	77.961M	83.4M	77.961M	82.68M	77.961M	82.92M	77.961M
6705MHz	Pass	Inf	84.12M	77.961M	83.64M	77.961M	84.6M	78.081M	85.8M	77.961M
6785MHz	Pass	Inf	82.92M	77.961M	83.88M	77.961M	86.28M	78.081M	83.04M	78.081M
6865MHz Straddle 6.525-6.875GHz	Pass	Inf	83.88M	77.841M	84.24M	77.841M	83.88M	78.081M	82.32M	77.961M
6945MHz	Pass	Inf	84M	77.961M	83.64M	77.841M	85.08M	77.961M	83.88M	77.961M
7025MHz	Pass	Inf	84.84M	77.961M	84.24M	78.201M	83.88M	78.201M	83.64M	78.201M
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
6025MHz	Pass	Inf	165.84M	156.882M	165.6M	156.642M	165.12M	157.121M	165.36M	156.642M
6185MHz	Pass	Inf	164.64M	157.361M	165.36M	157.361M	165.12M	157.121M	164.88M	156.882M
6345MHz	Pass	Inf	165.12M	157.121M	164.88M	157.121M	164.64M	157.121M	165.12M	156.882M
6505MHz Straddle 6.425-6.525GHz	Pass	Inf	165.6M	157.121M	165.6M	156.882M	165.12M	157.361M	215.52M	157.121M
6665MHz	Pass	Inf	164.64M	157.841M	164.64M	157.601M	166.08M	157.361M	164.88M	157.121M
6825MHz Straddle 6.525-6.875GHz	Pass	Inf	165.6M	158.081M	165.84M	157.121M	165.12M	157.361M	165.12M	157.841M
6985MHz	Pass	Inf	163.92M	157.361M	164.4M	157.121M	164.4M	157.121M	164.16M	157.121M

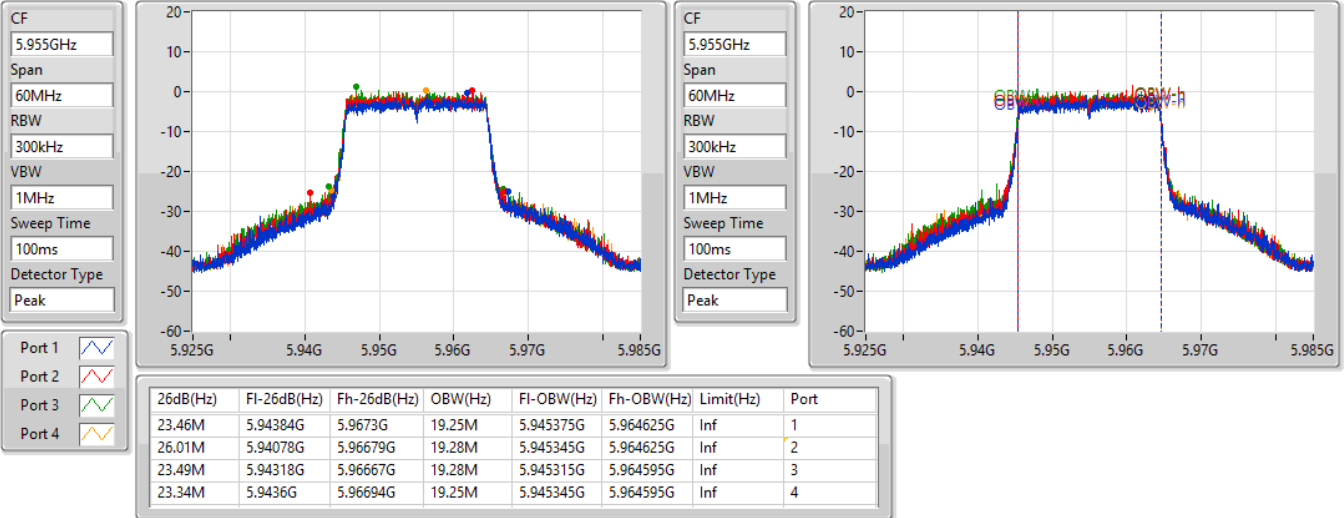
Port X-N dB = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band
 Port X-OBW = Port X 99% occupied bandwidth

802.11ax HEW20-BF_Nss1,(MCS0)_4TX

EBW

5955MHz

19/02/2022

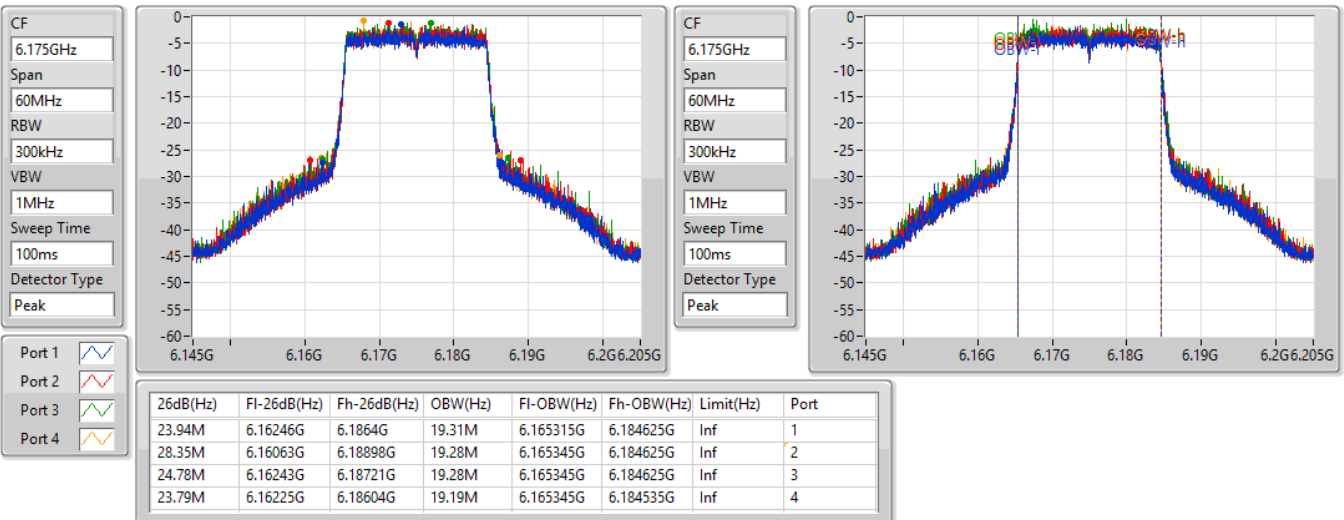


802.11ax HEW20-BF_Nss1,(MCS0)_4TX

EBW

6175MHz

19/02/2022

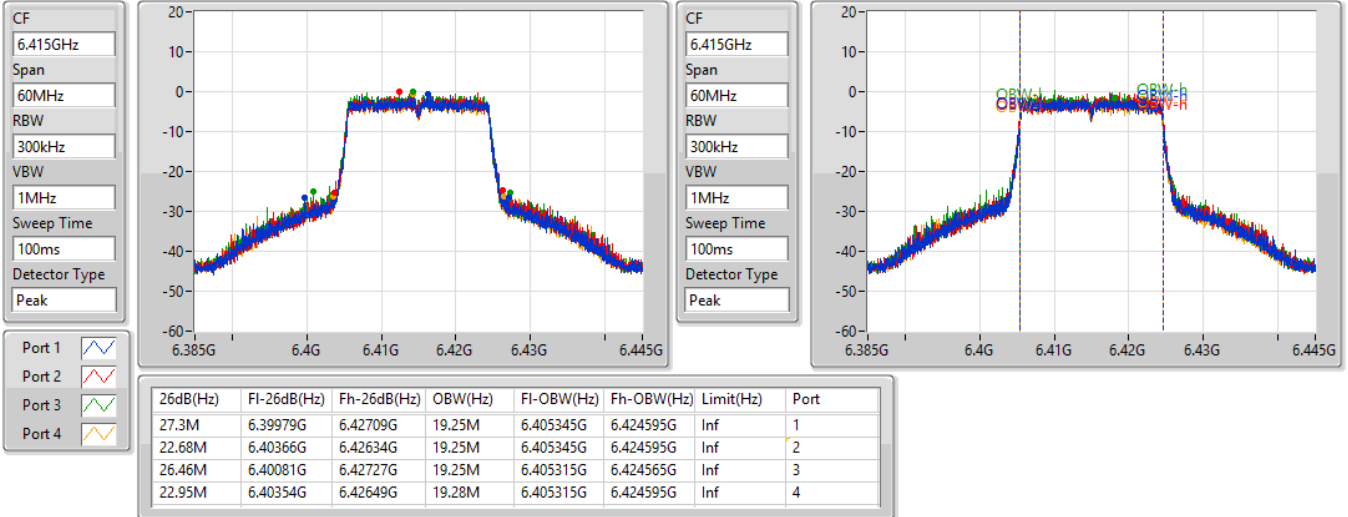


802.11ax HEW20-BF_Nss1,(MCS0)_4TX

EBW

6415MHz

19/02/2022

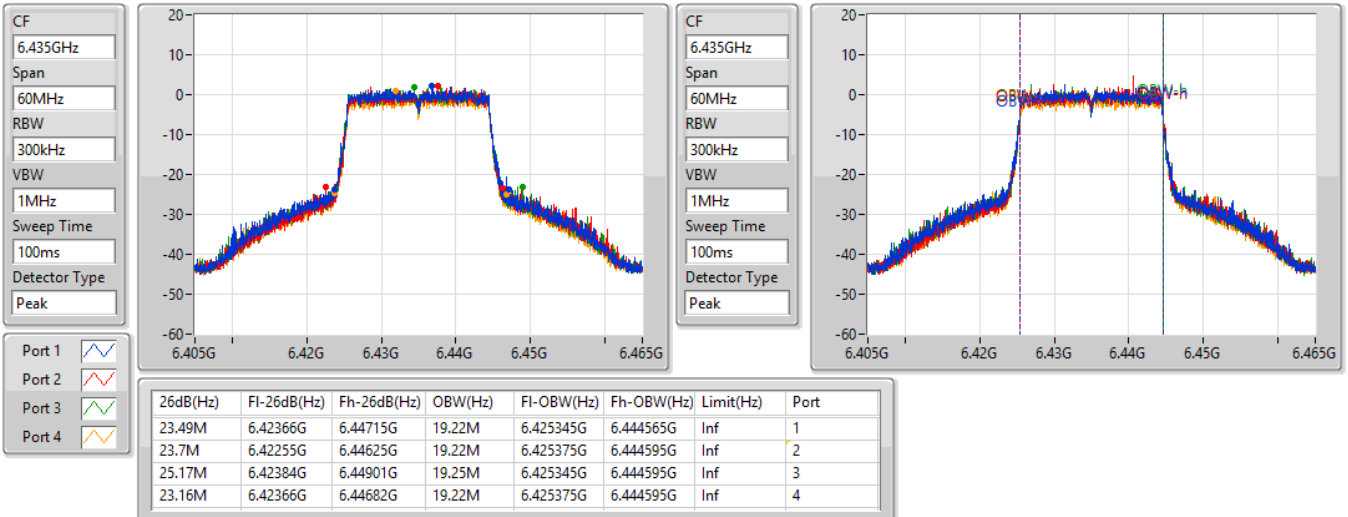


802.11ax HEW20-BF_Nss1,(MCS0)_4TX

EBW

6435MHz

19/02/2022



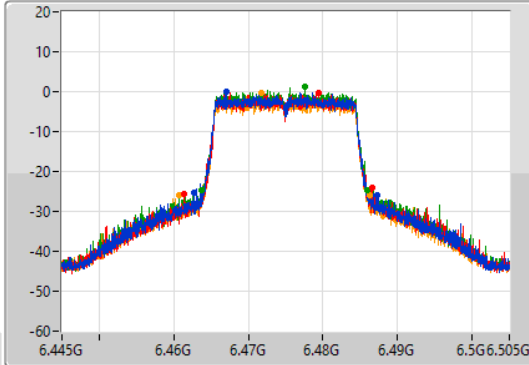
802.11ax HEW20-BF_Nss1,(MCS0)_4TX

EBW

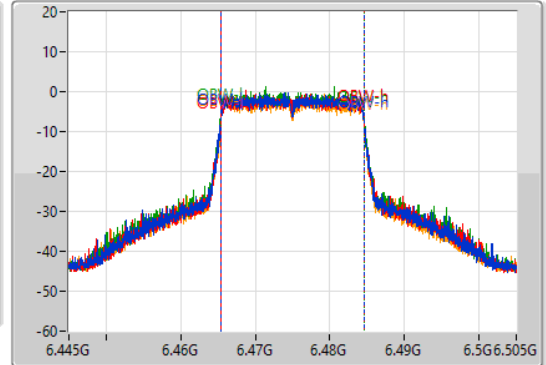
6475MHz

19/02/2022

CF
6.475GHz
Span
60MHz
RBW
300kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



CF
6.475GHz
Span
60MHz
RBW
300kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



Port 1
Port 2
Port 3
Port 4

26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
24.63M	6.46264G	6.48727G	19.25M	6.465345G	6.484595G	Inf	1
25.26M	6.46138G	6.48664G	19.25M	6.465345G	6.484595G	Inf	2
22.29M	6.46369G	6.48598G	19.25M	6.465315G	6.484565G	Inf	3
25.59M	6.46075G	6.48634G	19.22M	6.465345G	6.484565G	Inf	4

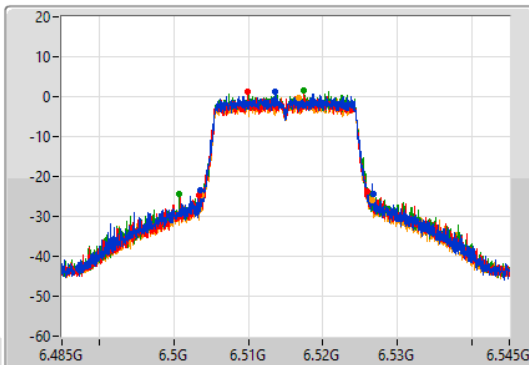
802.11ax HEW20-BF_Nss1,(MCS0)_4TX

EBW

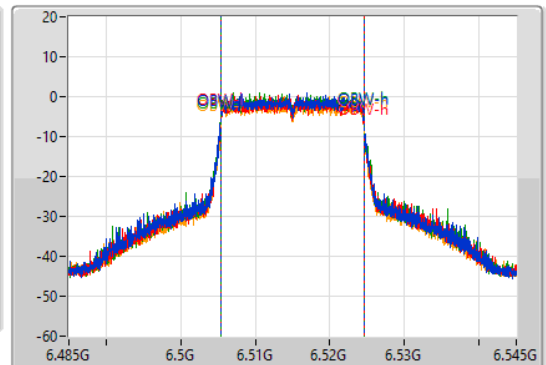
6515MHz

19/02/2022

CF
6.515GHz
Span
60MHz
RBW
300kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



CF
6.515GHz
Span
60MHz
RBW
300kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



Port 1
Port 2
Port 3
Port 4

26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
23.13M	6.50357G	6.5267G	19.25M	6.505345G	6.524595G	Inf	1
22.44M	6.50345G	6.52589G	19.22M	6.505375G	6.524595G	Inf	2
25.89M	6.50072G	6.52661G	19.22M	6.505345G	6.524565G	Inf	3
22.86M	6.50375G	6.52661G	19.22M	6.505345G	6.524565G	Inf	4

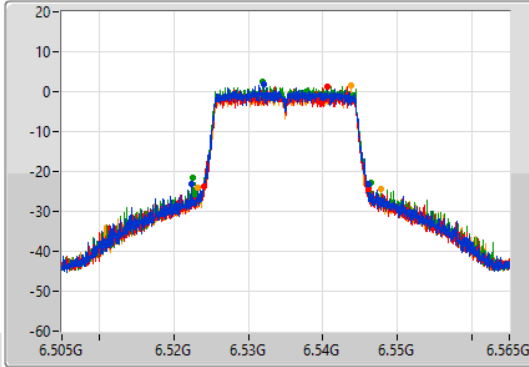
802.11ax HEW20-BF_Nss1,(MCS0)_4TX

EBW

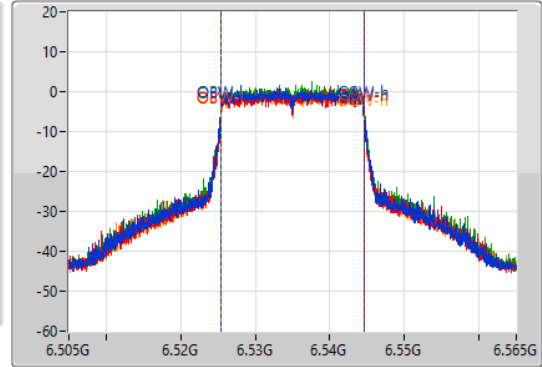
6535MHz

19/02/2022

CF
6.535GHz
Span
60MHz
RBW
300kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



CF
6.535GHz
Span
60MHz
RBW
300kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



Port 1
Port 2
Port 3
Port 4

26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
23.76M	6.52231G	6.54607G	19.25M	6.525345G	6.544595G	Inf	1
22.17M	6.52399G	6.54616G	19.25M	6.525345G	6.544595G	Inf	2
23.94M	6.52252G	6.54648G	19.25M	6.525375G	6.544625G	Inf	3
24.51M	6.52324G	6.54775G	19.25M	6.525345G	6.544595G	Inf	4

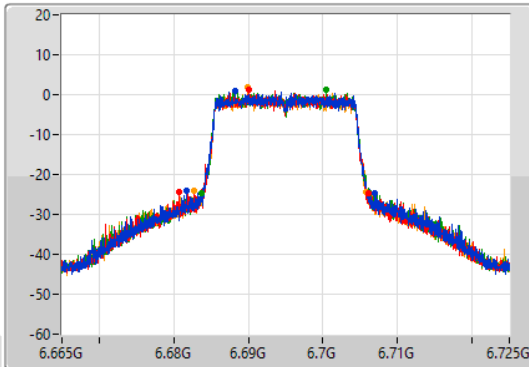
802.11ax HEW20-BF_Nss1,(MCS0)_4TX

EBW

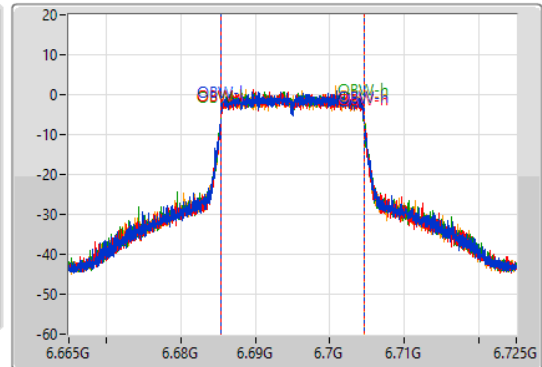
6695MHz

19/02/2022

CF
6.695GHz
Span
60MHz
RBW
300kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



CF
6.695GHz
Span
60MHz
RBW
300kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



Port 1
Port 2
Port 3
Port 4

26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
25.14M	6.68174G	6.70688G	19.25M	6.685345G	6.704595G	Inf	1
25.53M	6.68066G	6.70619G	19.25M	6.685345G	6.704595G	Inf	2
22.56M	6.68375G	6.70631G	19.25M	6.685345G	6.704595G	Inf	3
23.11M	6.68276G	6.70586G	19.25M	6.685345G	6.704595G	Inf	4

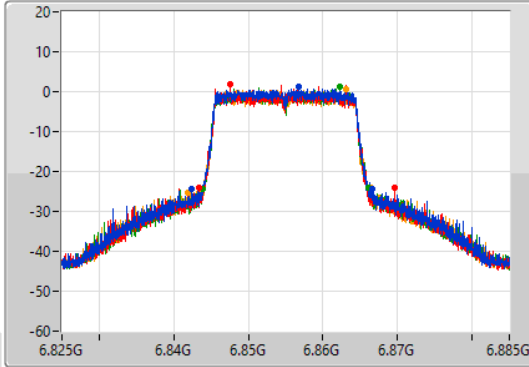
802.11ax HEW20-BF_Nss1,(MCS0)_4TX

EBW

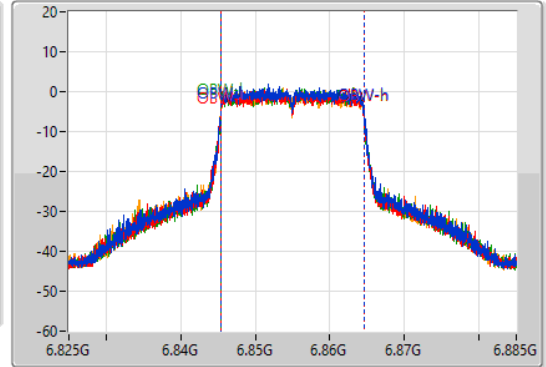
6855MHz

19/02/2022

CF
6.855GHz
Span
60MHz
RBW
300kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



CF
6.855GHz
Span
60MHz
RBW
300kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



Port 1
Port 2
Port 3
Port 4

26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
24.21M	6.8424G	6.86661G	19.28M	6.845315G	6.864595G	Inf	1
26.25M	6.84345G	6.8697G	19.25M	6.845315G	6.864565G	Inf	2
22.23M	6.84387G	6.8661G	19.22M	6.845345G	6.864565G	Inf	3
24.42M	6.84195G	6.86637G	19.25M	6.845315G	6.864565G	Inf	4

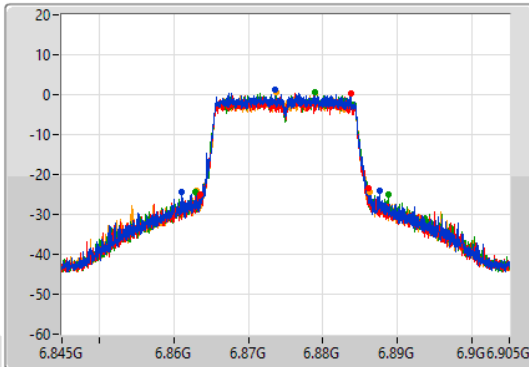
802.11ax HEW20-BF_Nss1,(MCS0)_4TX

EBW

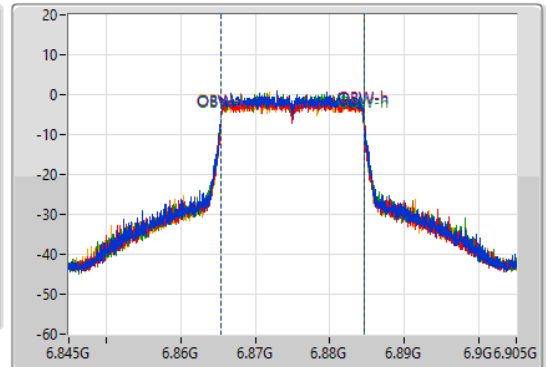
6875MHz Straddle 6.525-6.875GHz

19/02/2022

CF
6.875GHz
Span
60MHz
RBW
300kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



CF
6.875GHz
Span
60MHz
RBW
300kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



Port 1
Port 2
Port 3
Port 4

26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
26.58M	6.86099G	6.88757G	19.28M	6.865315G	6.884595G	Inf	1
22.5M	6.86357G	6.88607G	19.22M	6.865345G	6.884565G	Inf	2
25.95M	6.86285G	6.8888G	19.25M	6.865345G	6.884595G	Inf	3
23.19M	6.86309G	6.88628G	19.19M	6.865375G	6.884565G	Inf	4

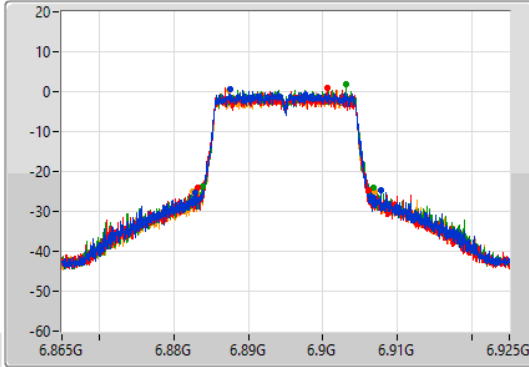
802.11ax HEW20-BF_Nss1,(MCS0)_4TX

EBW

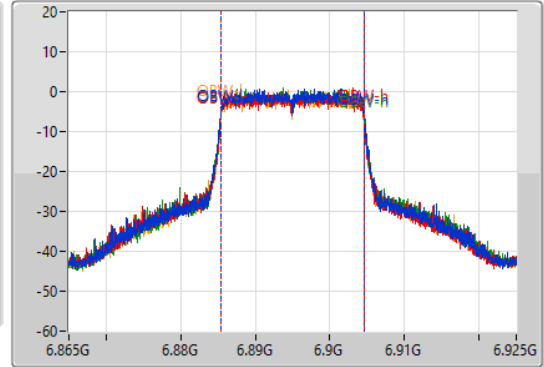
6895MHz

19/02/2022

CF
6.895GHz
Span
60MHz
RBW
300kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



CF
6.895GHz
Span
60MHz
RBW
300kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



Port 1
Port 2
Port 3
Port 4

26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
24.93M	6.88285G	6.90778G	19.31M	6.885315G	6.904625G	Inf	1
22.98M	6.88318G	6.90616G	19.22M	6.885345G	6.904565G	Inf	2
22.89M	6.88381G	6.9067G	19.28M	6.885345G	6.904625G	Inf	3
24.3M	6.88261G	6.90691G	19.19M	6.885375G	6.904565G	Inf	4

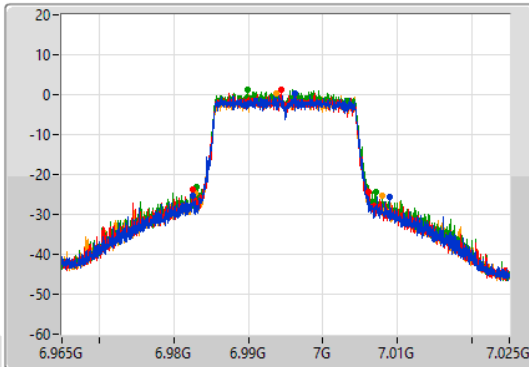
802.11ax HEW20-BF_Nss1,(MCS0)_4TX

EBW

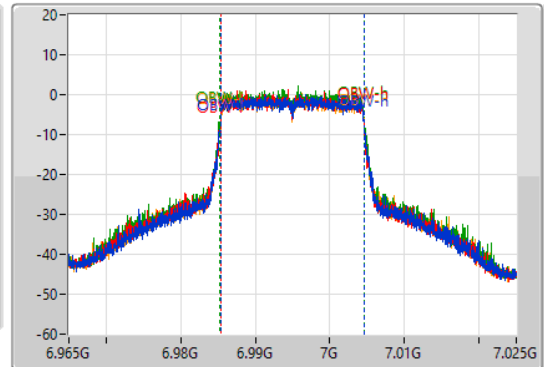
6995MHz

19/02/2022

CF
6.995GHz
Span
60MHz
RBW
300kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



CF
6.995GHz
Span
60MHz
RBW
300kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



Port 1
Port 2
Port 3
Port 4

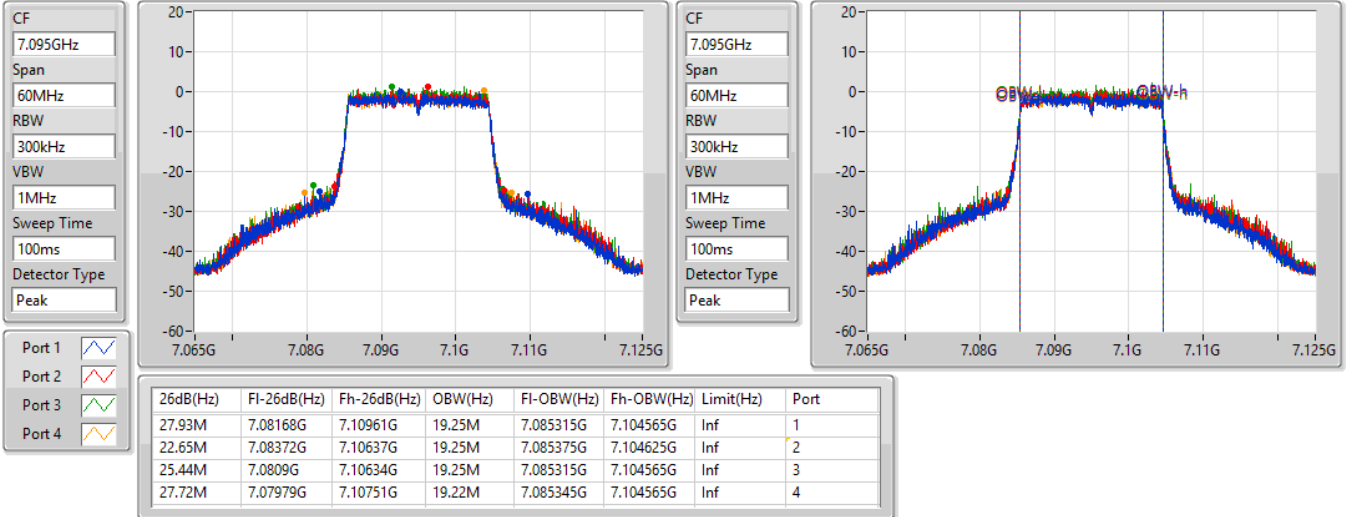
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
26.4M	6.98261G	7.00901G	19.25M	6.985315G	7.004565G	Inf	1
23.64M	6.98249G	7.00613G	19.22M	6.985315G	7.004535G	Inf	2
24.15M	6.98303G	7.00718G	19.28M	6.985285G	7.004565G	Inf	3
24.99M	6.98288G	7.00787G	19.25M	6.985315G	7.004565G	Inf	4

802.11ax HEW20-BF_Nss1,(MCS0)_4TX

EBW

7095MHz

19/02/2022

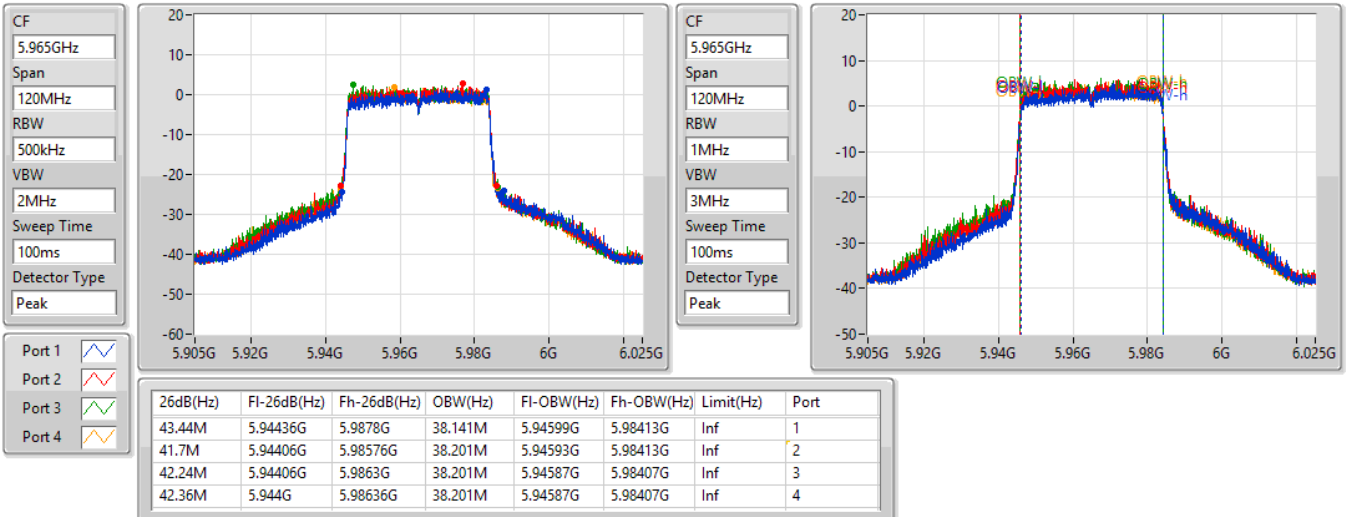


802.11ax HEW40-BF_Nss1,(MCS0)_4TX

EBW

5965MHz

19/02/2022



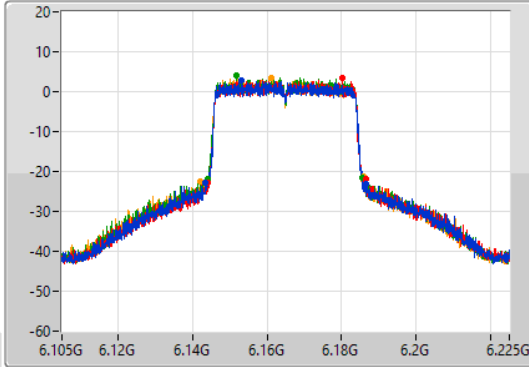
802.11ax HEW40-BF_Nss1,(MCS0)_4TX

EBW

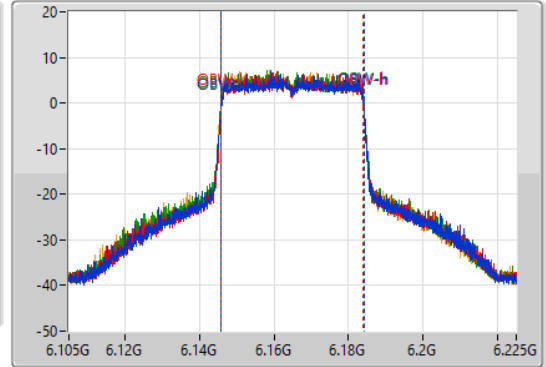
6165MHz

19/02/2022

CF
6.165GHz
Span
120MHz
RBW
500kHz
VBW
2MHz
Sweep Time
100ms
Detector Type
Peak



CF
6.165GHz
Span
120MHz
RBW
1MHz
VBW
3MHz
Sweep Time
100ms
Detector Type
Peak



Port 1
Port 2
Port 3
Port 4

26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
43.02M	6.14346G	6.18648G	38.141M	6.14593G	6.18407G	Inf	1
42.6M	6.14412G	6.18672G	38.081M	6.14593G	6.18401G	Inf	2
41.58M	6.14406G	6.18564G	38.261M	6.14581G	6.18407G	Inf	3
43.68M	6.14214G	6.18582G	38.141M	6.14587G	6.18401G	Inf	4

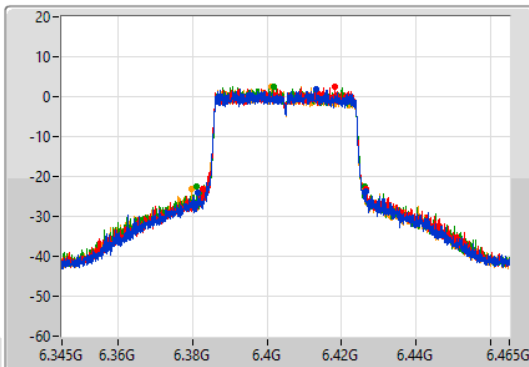
802.11ax HEW40-BF_Nss1,(MCS0)_4TX

EBW

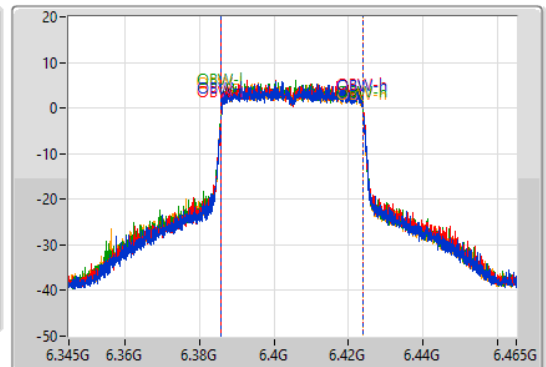
6405MHz

19/02/2022

CF
6.405GHz
Span
120MHz
RBW
500kHz
VBW
2MHz
Sweep Time
100ms
Detector Type
Peak



CF
6.405GHz
Span
120MHz
RBW
1MHz
VBW
3MHz
Sweep Time
100ms
Detector Type
Peak



Port 1
Port 2
Port 3
Port 4

26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
44.88M	6.38154G	6.42642G	38.141M	6.38587G	6.42401G	Inf	1
43.56M	6.38286G	6.42642G	38.141M	6.38587G	6.42401G	Inf	2
45.3M	6.38106G	6.42636G	38.081M	6.38587G	6.423951G	Inf	3
46.38M	6.37968G	6.42606G	38.261M	6.38575G	6.42401G	Inf	4

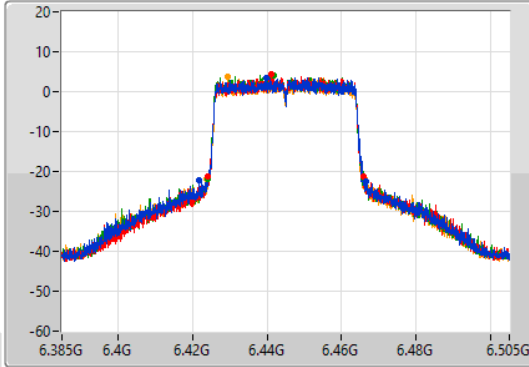
802.11ax HEW40-BF_Nss1,(MCS0)_4TX

EBW

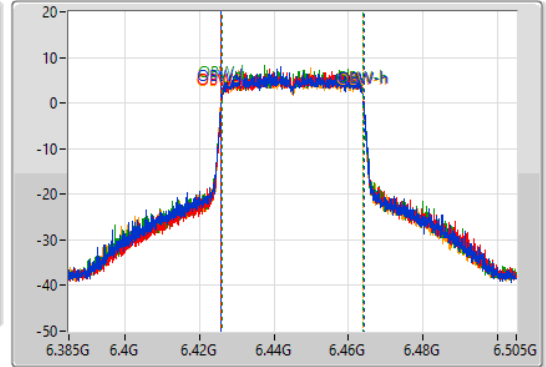
6445MHz

19/02/2022

CF
6.445GHz
Span
120MHz
RBW
500kHz
VBW
2MHz
Sweep Time
100ms
Detector Type
Peak



CF
6.445GHz
Span
120MHz
RBW
1MHz
VBW
3MHz
Sweep Time
100ms
Detector Type
Peak



Port 1
Port 2
Port 3
Port 4

26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
45M	6.42172G	6.46672G	38.141M	6.42593G	6.46407G	Inf	1
41.64M	6.42424G	6.46588G	38.141M	6.42593G	6.46407G	Inf	2
41.76M	6.42412G	6.46588G	38.021M	6.42599G	6.46401G	Inf	3
42.12M	6.42394G	6.46606G	38.201M	6.42581G	6.46401G	Inf	4

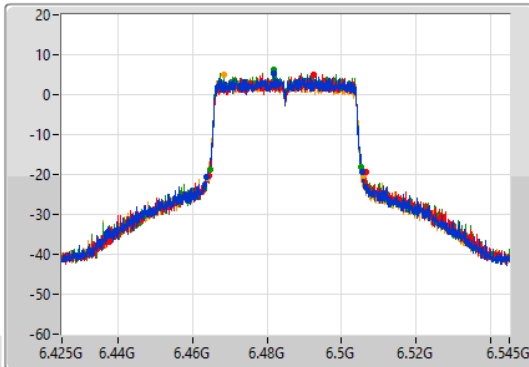
802.11ax HEW40-BF_Nss1,(MCS0)_4TX

EBW

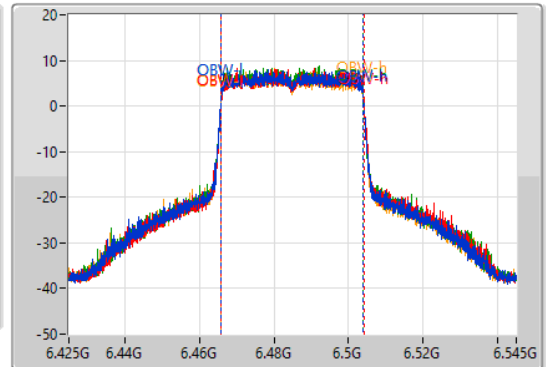
6485MHz

19/02/2022

CF
6.485GHz
Span
120MHz
RBW
500kHz
VBW
2MHz
Sweep Time
100ms
Detector Type
Peak



CF
6.485GHz
Span
120MHz
RBW
1MHz
VBW
3MHz
Sweep Time
100ms
Detector Type
Peak



Port 1
Port 2
Port 3
Port 4

26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
41.76M	6.46376G	6.50552G	38.141M	6.46587G	6.50401G	Inf	1
42.3M	6.46436G	6.50666G	38.201M	6.46587G	6.50407G	Inf	2
40.44M	6.46478G	6.50522G	38.081M	6.46587G	6.503951G	Inf	3
41.88M	6.46406G	6.50594G	38.141M	6.46587G	6.50401G	Inf	4

802.11ax HEW40-BF_Nss1,(MCS0)_4TX

EBW

6525MHz Straddle 6.425-6.525GHz

19/02/2022

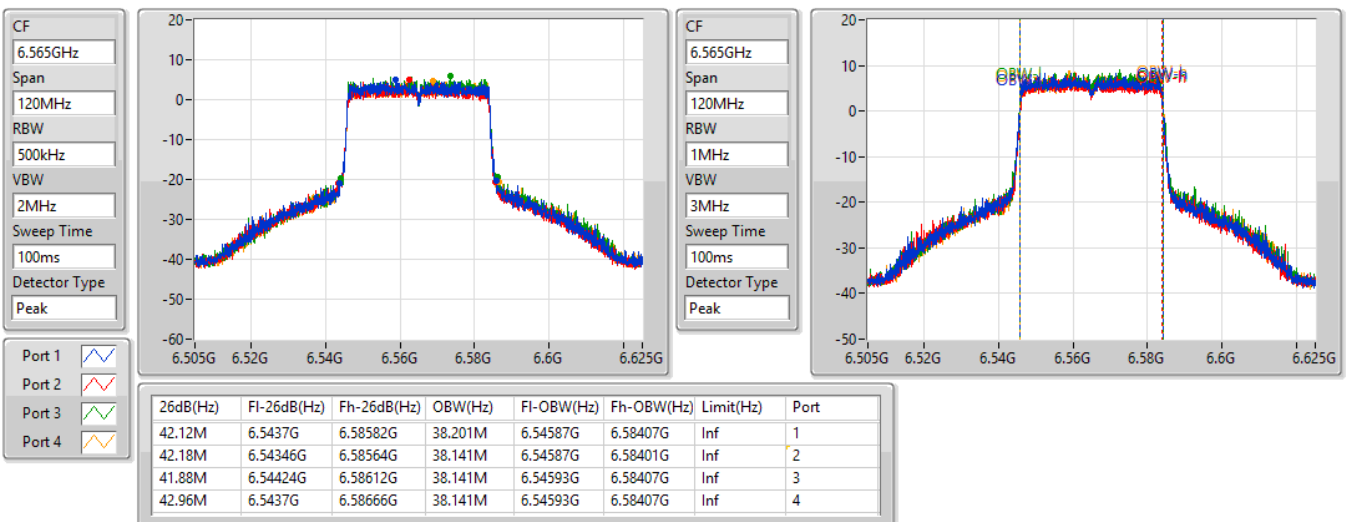


802.11ax HEW40-BF_Nss1,(MCS0)_4TX

EBW

6565MHz

19/02/2022



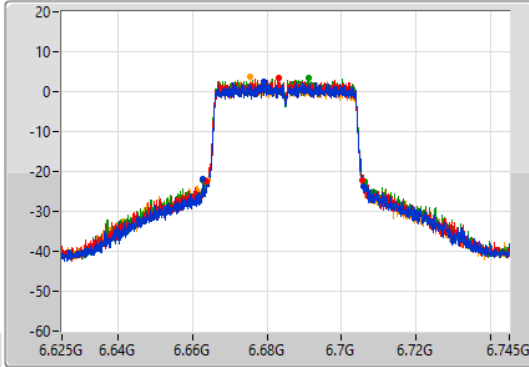
802.11ax HEW40-BF_Nss1,(MCS0)_4TX

EBW

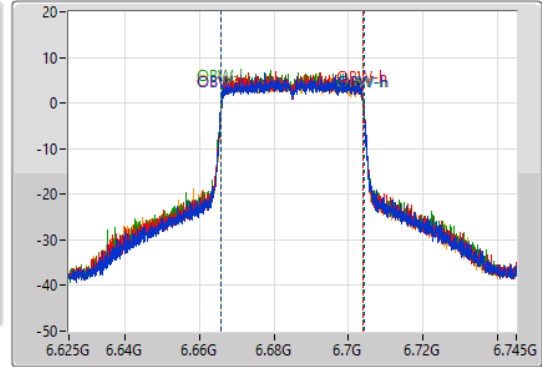
6685MHz

19/02/2022

CF
6.685GHz
Span
120MHz
RBW
500kHz
VBW
2MHz
Sweep Time
100ms
Detector Type
Peak



CF
6.685GHz
Span
120MHz
RBW
1MHz
VBW
3MHz
Sweep Time
100ms
Detector Type
Peak



Port 1
Port 2
Port 3
Port 4

26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
43.02M	6.66286G	6.70588G	38.141M	6.66593G	6.70407G	Inf	1
42M	6.6637G	6.7057G	38.141M	6.66587G	6.70401G	Inf	2
43.32M	6.66274G	6.70606G	38.141M	6.66587G	6.70401G	Inf	3
41.52M	6.66406G	6.70558G	38.141M	6.66587G	6.70401G	Inf	4

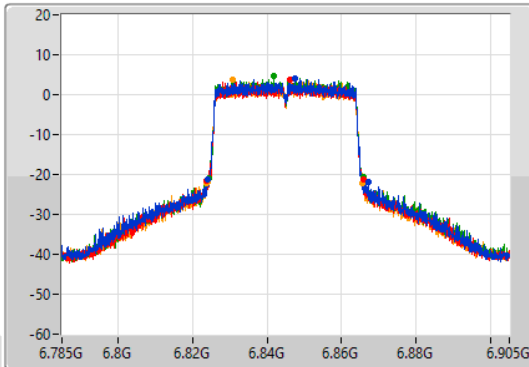
802.11ax HEW40-BF_Nss1,(MCS0)_4TX

EBW

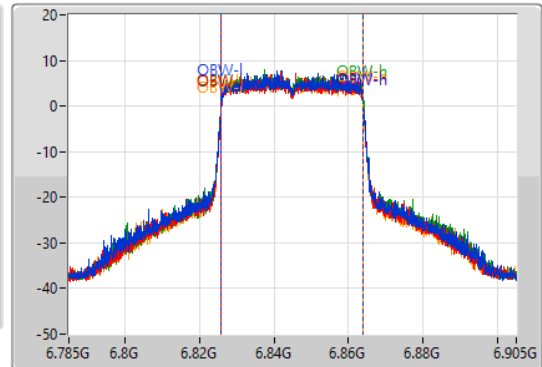
6845MHz

19/02/2022

CF
6.845GHz
Span
120MHz
RBW
500kHz
VBW
2MHz
Sweep Time
100ms
Detector Type
Peak



CF
6.845GHz
Span
120MHz
RBW
1MHz
VBW
3MHz
Sweep Time
100ms
Detector Type
Peak



Port 1
Port 2
Port 3
Port 4

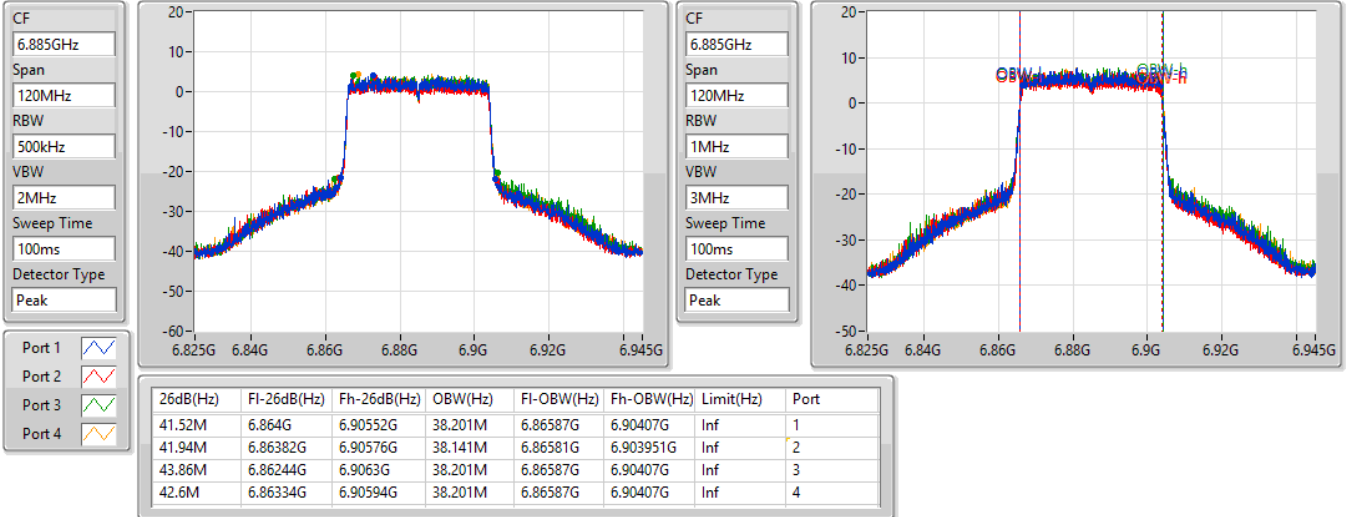
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
43.14M	6.824G	6.86714G	38.081M	6.82587G	6.863951G	Inf	1
42M	6.82388G	6.86588G	38.081M	6.82587G	6.863951G	Inf	2
41.28M	6.82448G	6.86576G	38.081M	6.82593G	6.86401G	Inf	3
41.88M	6.8237G	6.86558G	38.081M	6.82587G	6.863951G	Inf	4

802.11ax HEW40-BF_Nss1,(MCS0)_4TX

EBW

6885MHz Straddle 6.525-6.875GHz

19/02/2022

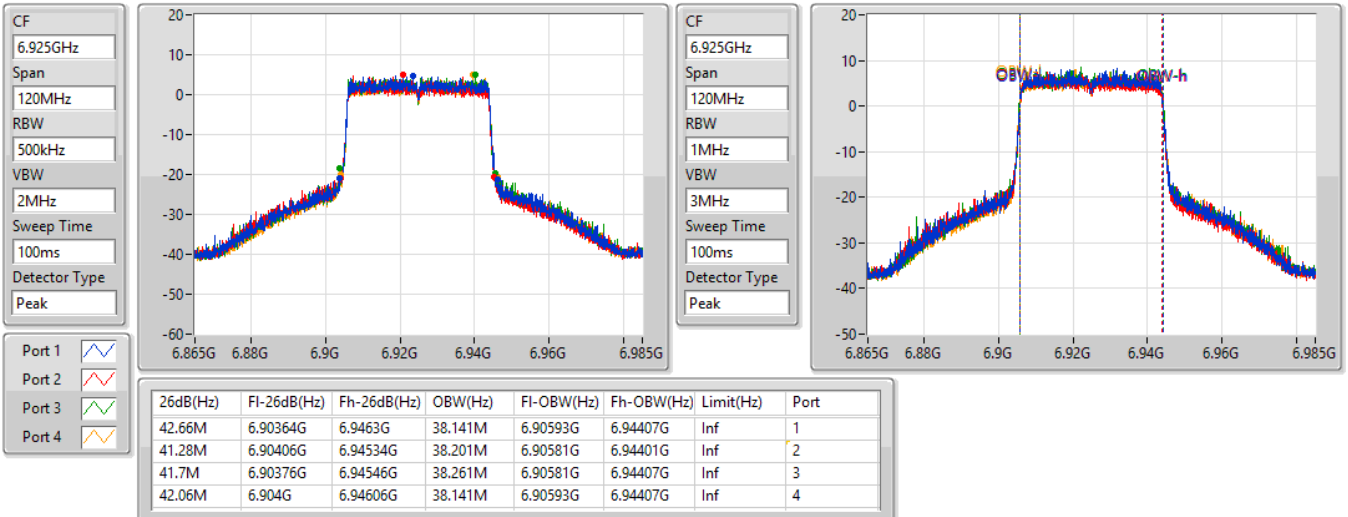


802.11ax HEW40-BF_Nss1,(MCS0)_4TX

EBW

6925MHz

19/02/2022



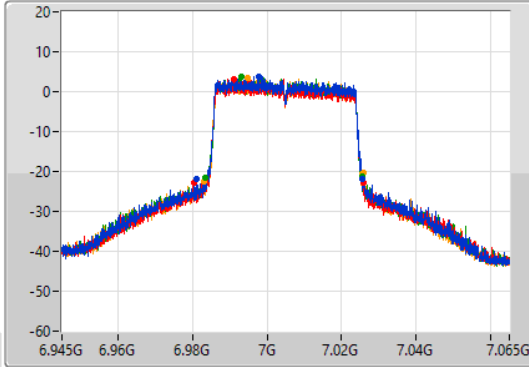
802.11ax HEW40-BF_Nss1,(MCS0)_4TX

EBW

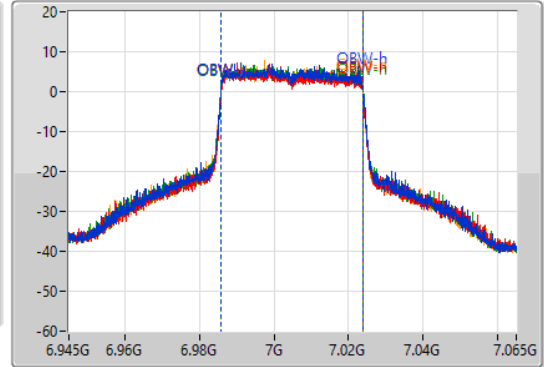
7005MHz

19/02/2022

CF
7.005GHz
Span
120MHz
RBW
500kHz
VBW
2MHz
Sweep Time
100ms
Detector Type
Peak



CF
7.005GHz
Span
120MHz
RBW
1MHz
VBW
3MHz
Sweep Time
100ms
Detector Type
Peak



Port 1
Port 2
Port 3
Port 4

26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
44.4M	6.98106G	7.02546G	38.141M	6.98581G	7.023951G	Inf	1
45.6M	6.9804G	7.026G	38.141M	6.98575G	7.023891G	Inf	2
42.24M	6.9834G	7.02564G	38.081M	6.98581G	7.023891G	Inf	3
42.84M	6.98298G	7.02582G	38.081M	6.98581G	7.023891G	Inf	4

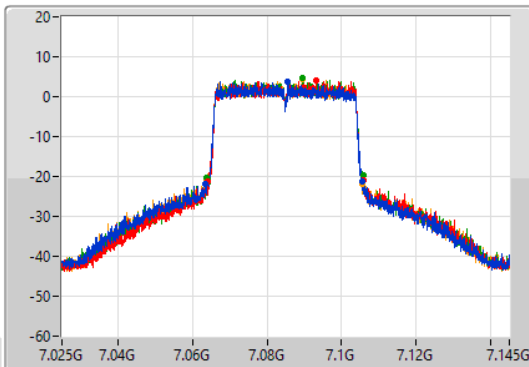
802.11ax HEW40-BF_Nss1,(MCS0)_4TX

EBW

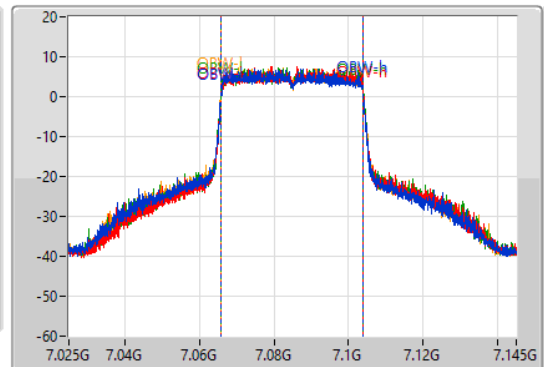
7085MHz

19/02/2022

CF
7.085GHz
Span
120MHz
RBW
500kHz
VBW
2MHz
Sweep Time
100ms
Detector Type
Peak



CF
7.085GHz
Span
120MHz
RBW
1MHz
VBW
3MHz
Sweep Time
100ms
Detector Type
Peak



Port 1
Port 2
Port 3
Port 4

26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
42M	7.0634G	7.1054G	38.141M	7.06581G	7.103951G	Inf	1
41.82M	7.064G	7.10582G	38.081M	7.06593G	7.10401G	Inf	2
41.94M	7.06388G	7.10582G	38.141M	7.06587G	7.10401G	Inf	3
41.76M	7.06382G	7.10558G	38.141M	7.06587G	7.10401G	Inf	4

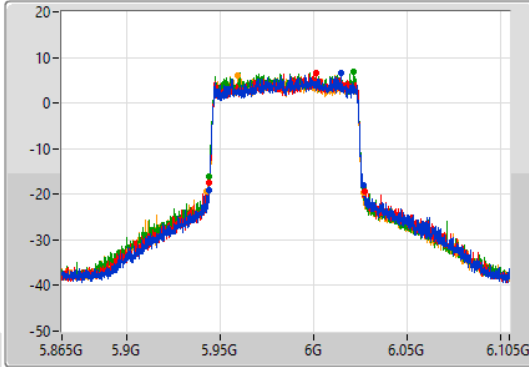
802.11ax HEW80-BF_Nss1,(MCS0)_4TX

EBW

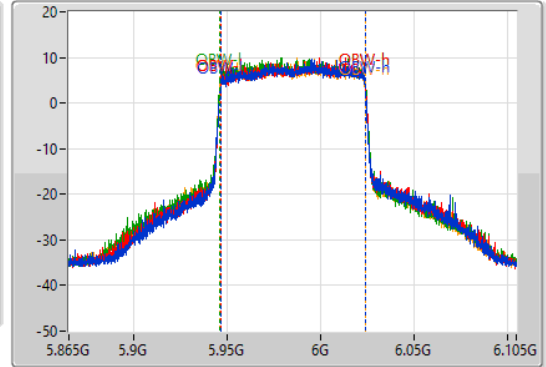
5985MHz

19/02/2022

CF
5.985GHz
Span
240MHz
RBW
1MHz
VBW
3MHz
Sweep Time
100ms
Detector Type
Peak



CF
5.985GHz
Span
240MHz
RBW
2MHz
VBW
10MHz
Sweep Time
100ms
Detector Type
Peak



Port 1
Port 2
Port 3
Port 4

26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
83.16M	5.94372G	6.02688G	77.721M	5.946259G	6.023981G	Inf	1
83.52M	5.94408G	6.0276G	77.721M	5.946259G	6.023981G	Inf	2
82.92M	5.94408G	6.027G	77.961M	5.946139G	6.0241G	Inf	3
84.24M	5.9424G	6.02664G	77.841M	5.946139G	6.023981G	Inf	4

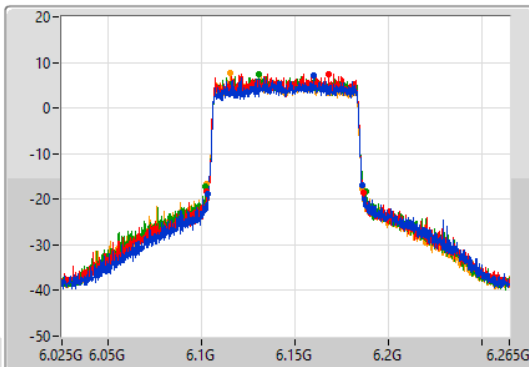
802.11ax HEW80-BF_Nss1,(MCS0)_4TX

EBW

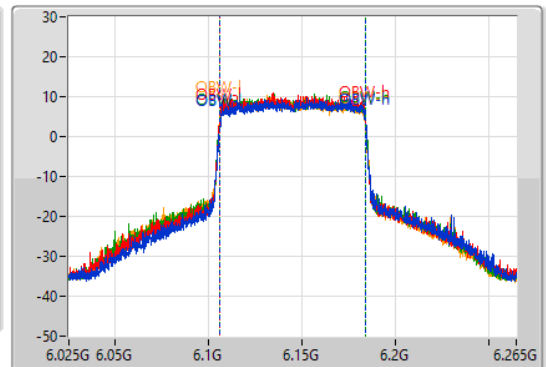
6145MHz

19/02/2022

CF
6.145GHz
Span
240MHz
RBW
1MHz
VBW
3MHz
Sweep Time
100ms
Detector Type
Peak



CF
6.145GHz
Span
240MHz
RBW
2MHz
VBW
10MHz
Sweep Time
100ms
Detector Type
Peak



Port 1
Port 2
Port 3
Port 4

26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
82.68M	6.10348G	6.18616G	77.841M	6.106139G	6.183981G	Inf	1
84.48M	6.1024G	6.18688G	77.841M	6.106139G	6.183981G	Inf	2
85.92M	6.10204G	6.18796G	77.961M	6.106019G	6.183981G	Inf	3
83.52M	6.10276G	6.18628G	77.961M	6.1059G	6.183861G	Inf	4

802.11ax HEW80-BF_Nss1,(MCS0)_4TX

EBW

6385MHz

19/02/2022

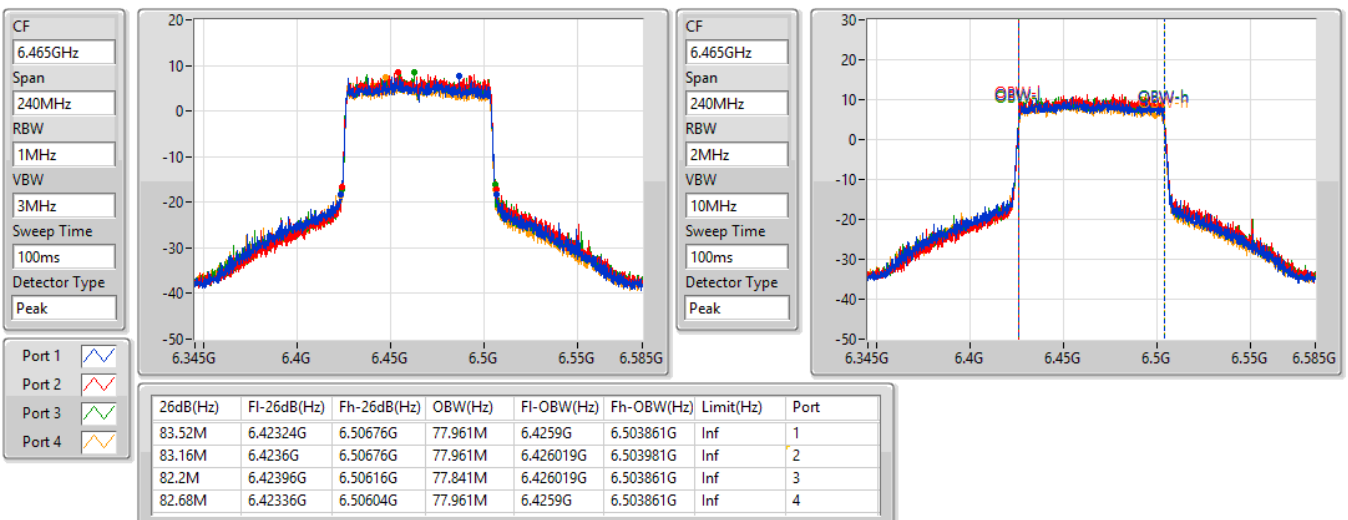


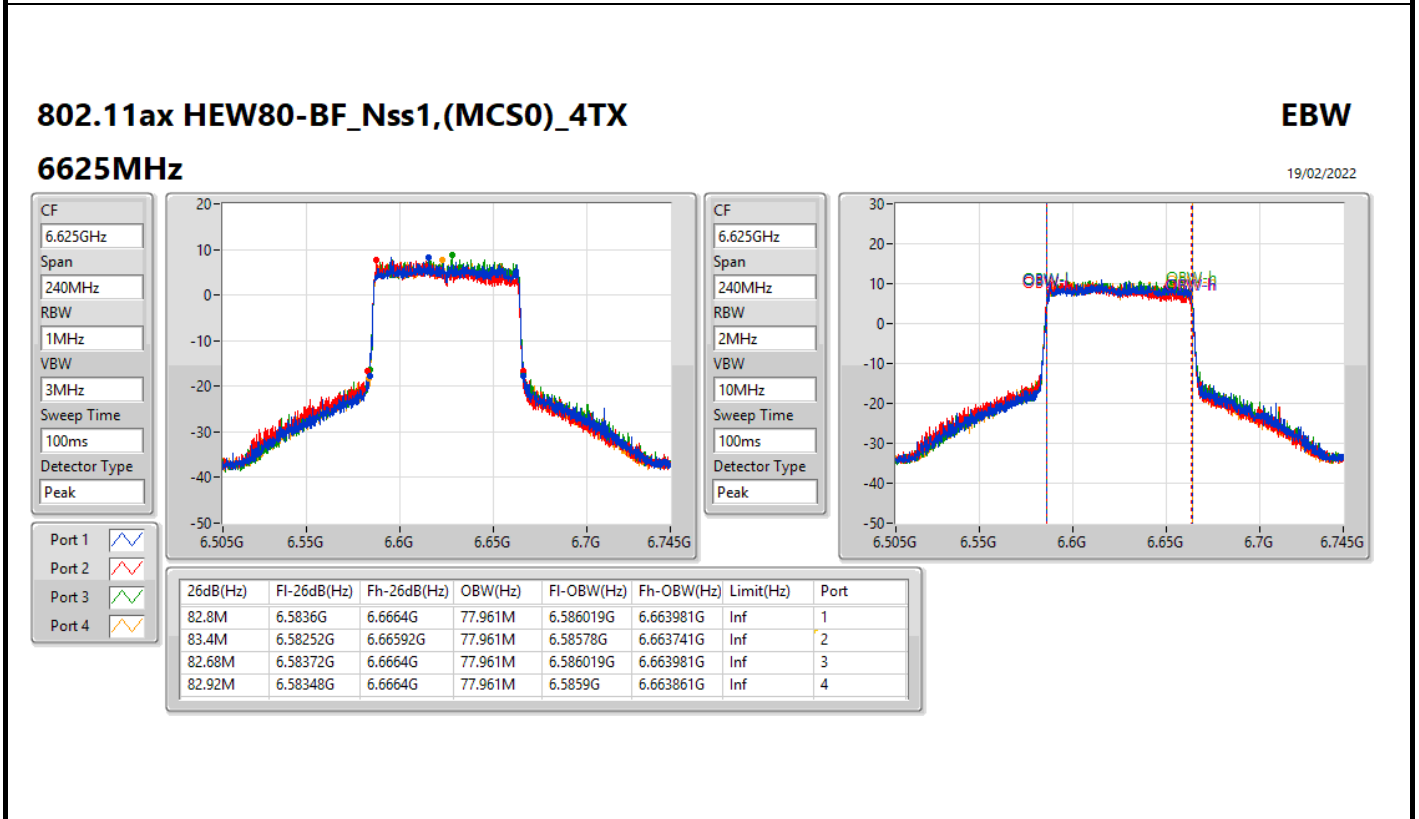
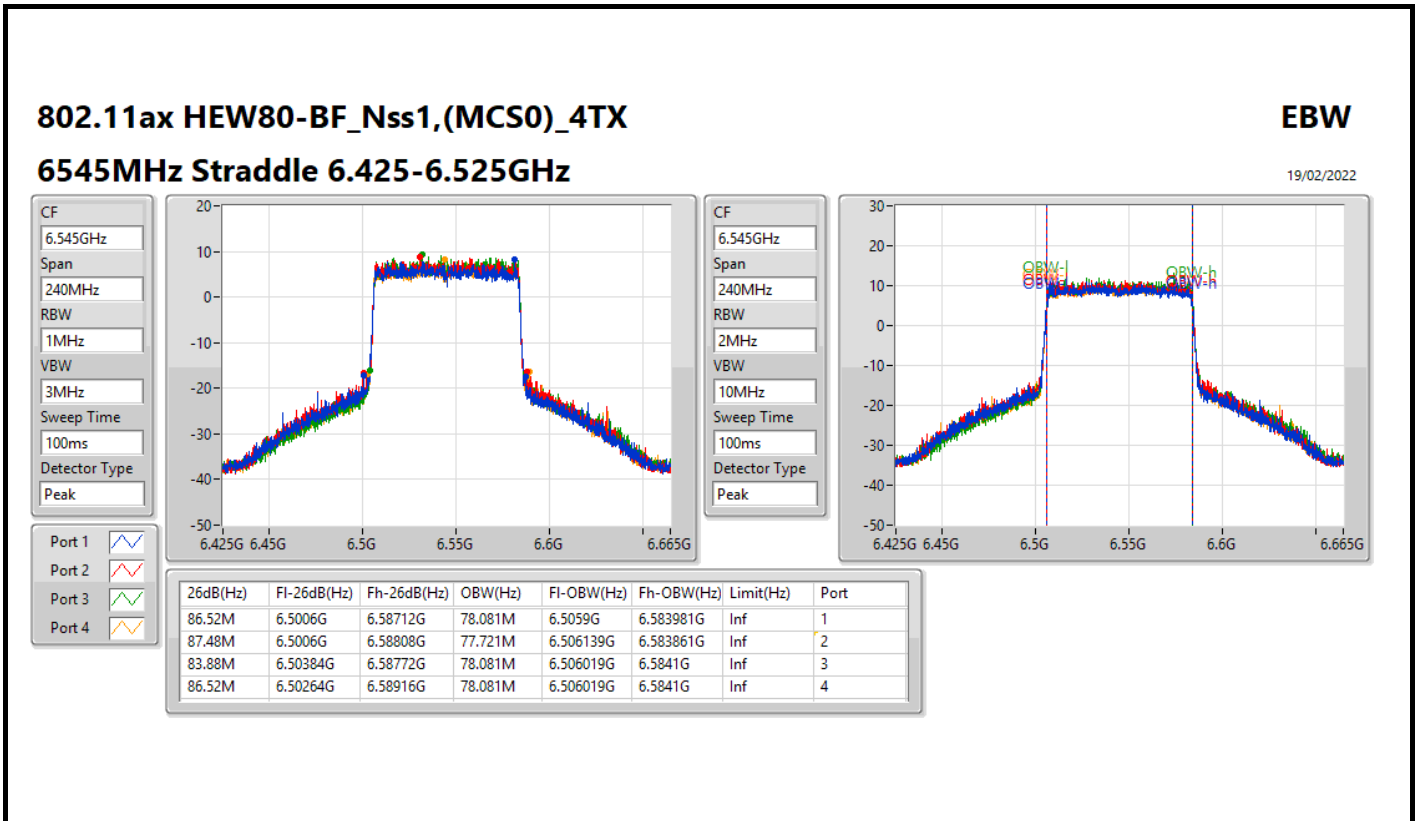
802.11ax HEW80-BF_Nss1,(MCS0)_4TX

EBW

6465MHz

19/02/2022



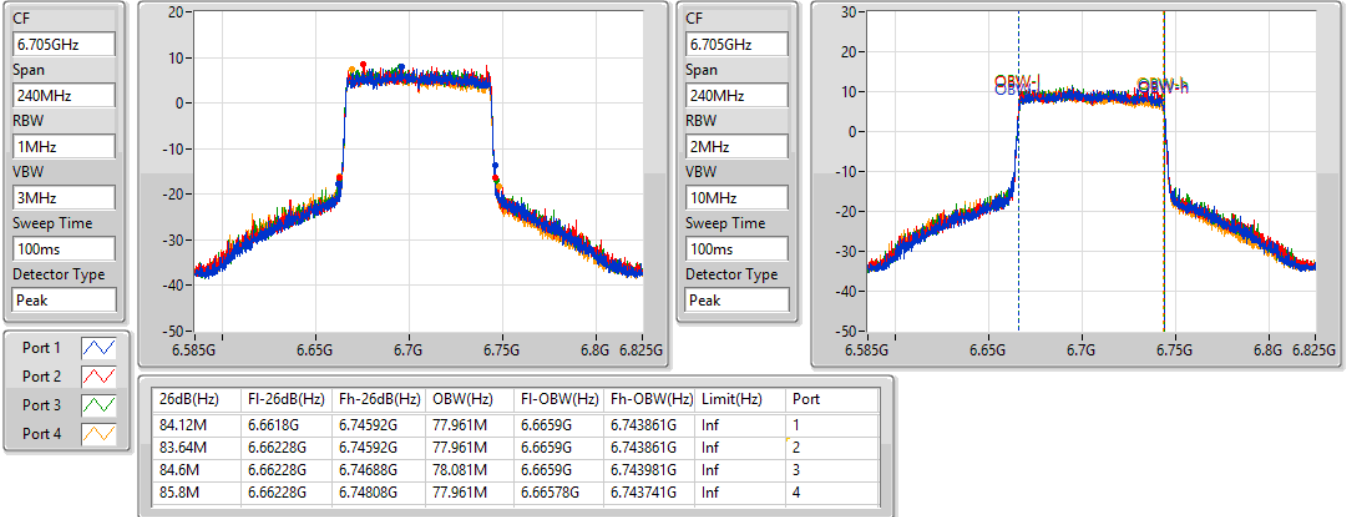


802.11ax HEW80-BF_Nss1,(MCS0)_4TX

EBW

6705MHz

19/02/2022

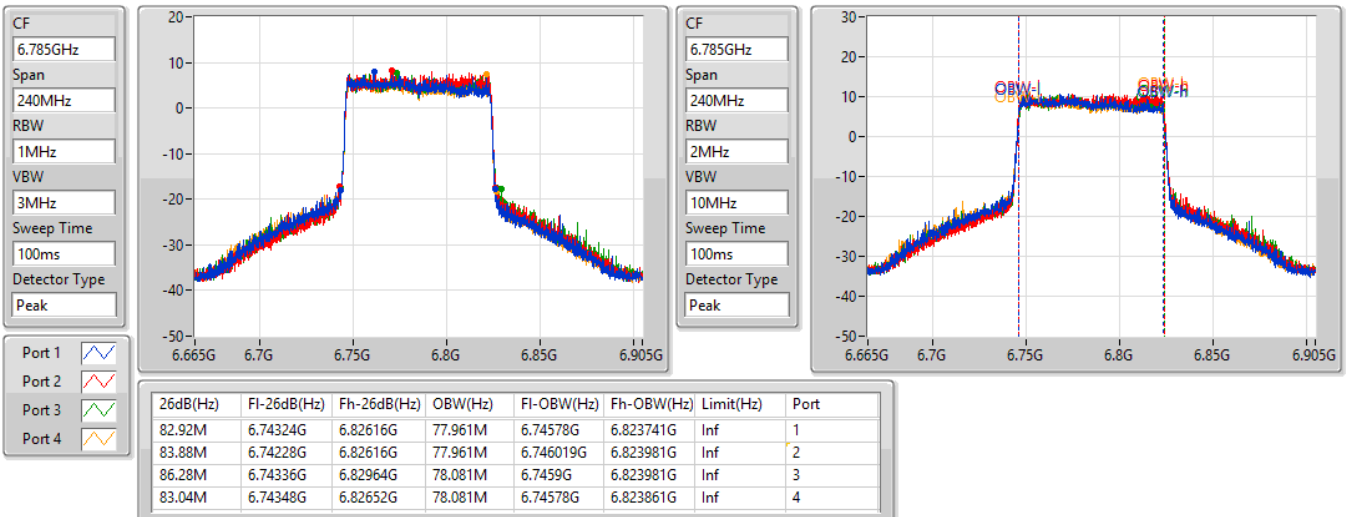


802.11ax HEW80-BF_Nss1,(MCS0)_4TX

EBW

6785MHz

19/02/2022

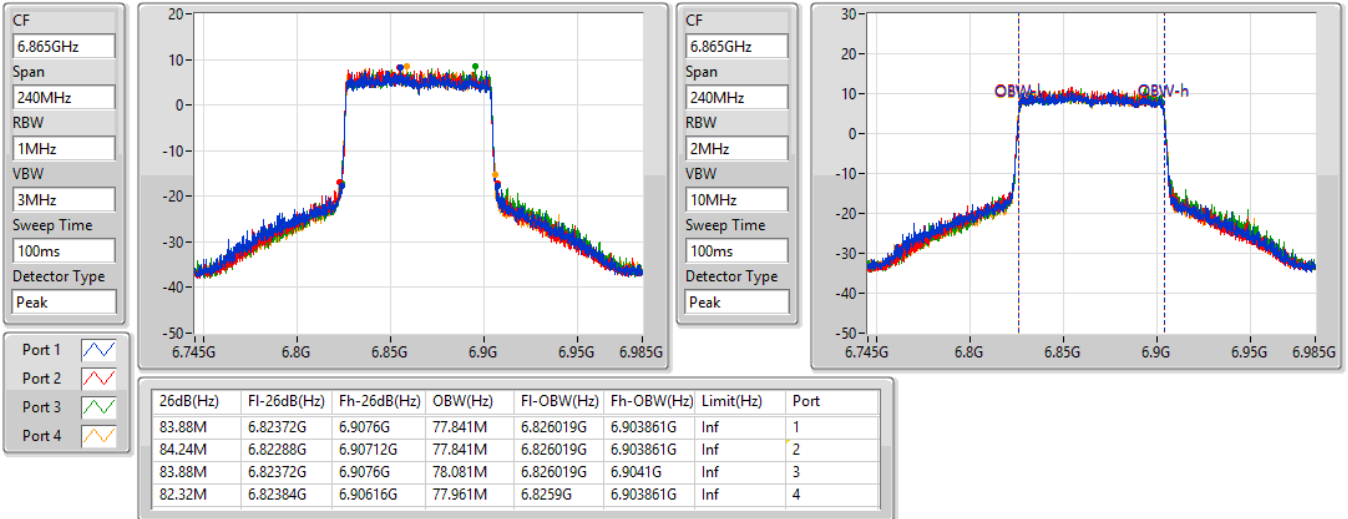


802.11ax HEW80-BF_Nss1,(MCS0)_4TX

EBW

6865MHz Straddle 6.525-6.875GHz

19/02/2022

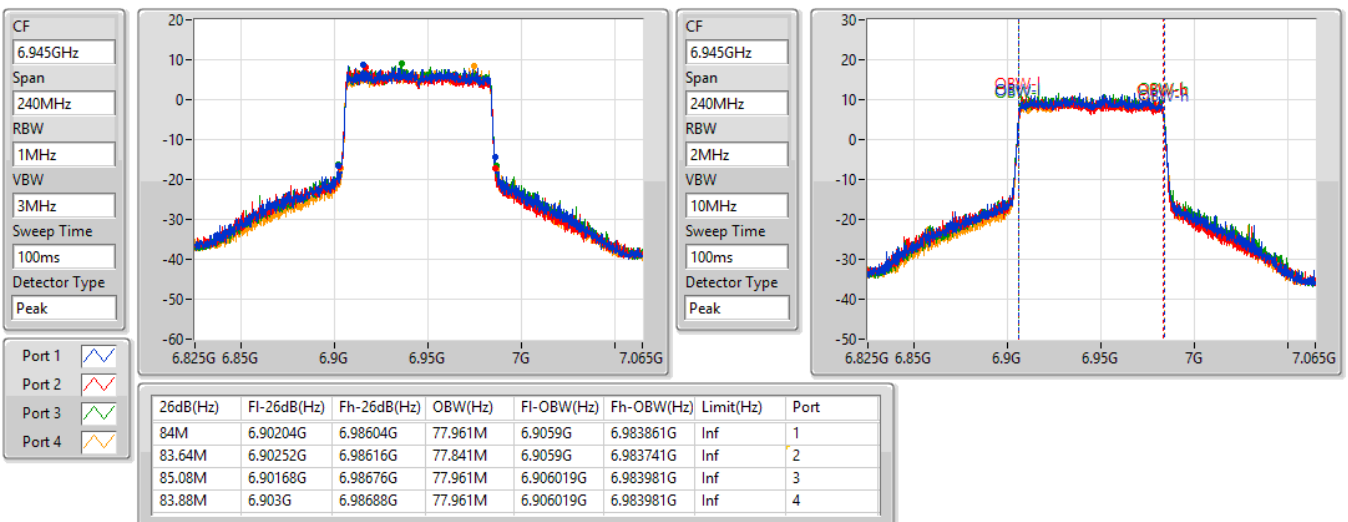


802.11ax HEW80-BF_Nss1,(MCS0)_4TX

EBW

6945MHz

19/02/2022



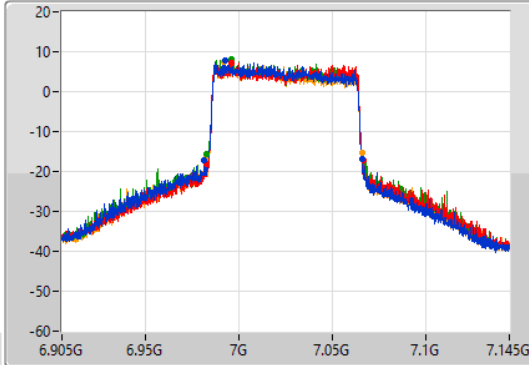
802.11ax HEW80-BF_Nss1,(MCS0)_4TX

EBW

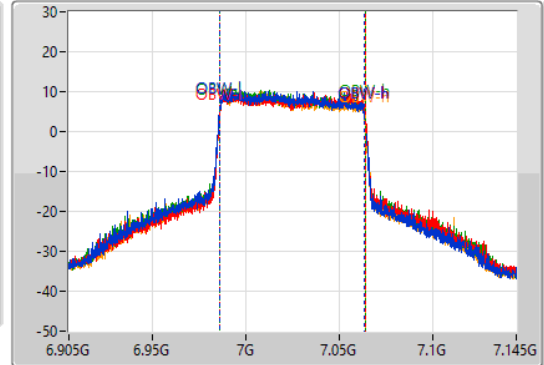
7025MHz

19/02/2022

CF
7.025GHz
Span
240MHz
RBW
1MHz
VBW
3MHz
Sweep Time
100ms
Detector Type
Peak



CF
7.025GHz
Span
240MHz
RBW
2MHz
VBW
10MHz
Sweep Time
100ms
Detector Type
Peak



Port 1
Port 2
Port 3
Port 4

26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
84.84M	6.98108G	7.06592G	77.961M	6.98566G	7.063621G	Inf	1
84.24M	6.98264G	7.06688G	78.201M	6.98578G	7.063981G	Inf	2
83.88M	6.98264G	7.06652G	78.201M	6.98566G	7.063861G	Inf	3
83.64M	6.98216G	7.0658G	78.201M	6.98566G	7.063861G	Inf	4

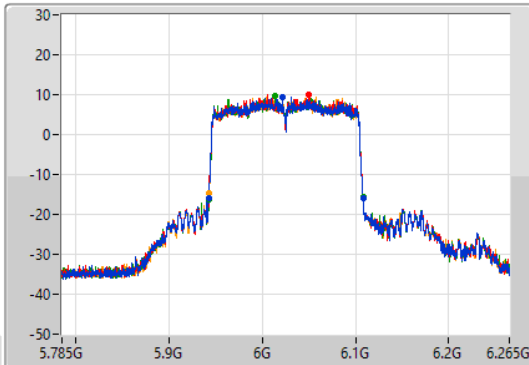
802.11ax HEW160-BF_Nss1,(MCS0)_4TX

EBW

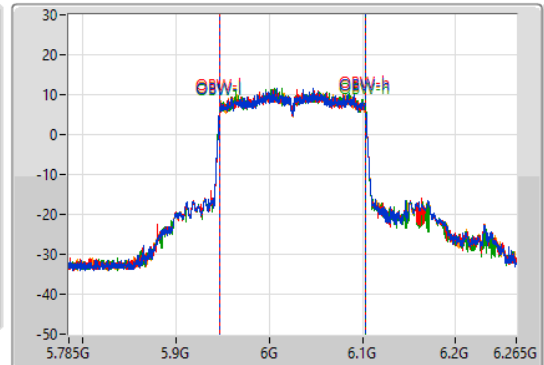
6025MHz

19/02/2022

CF
6.025GHz
Span
480MHz
RBW
2MHz
VBW
10MHz
Sweep Time
100ms
Detector Type
Peak



CF
6.025GHz
Span
480MHz
RBW
3MHz
VBW
10MHz
Sweep Time
100ms
Detector Type
Peak



Port 1
Port 2
Port 3
Port 4

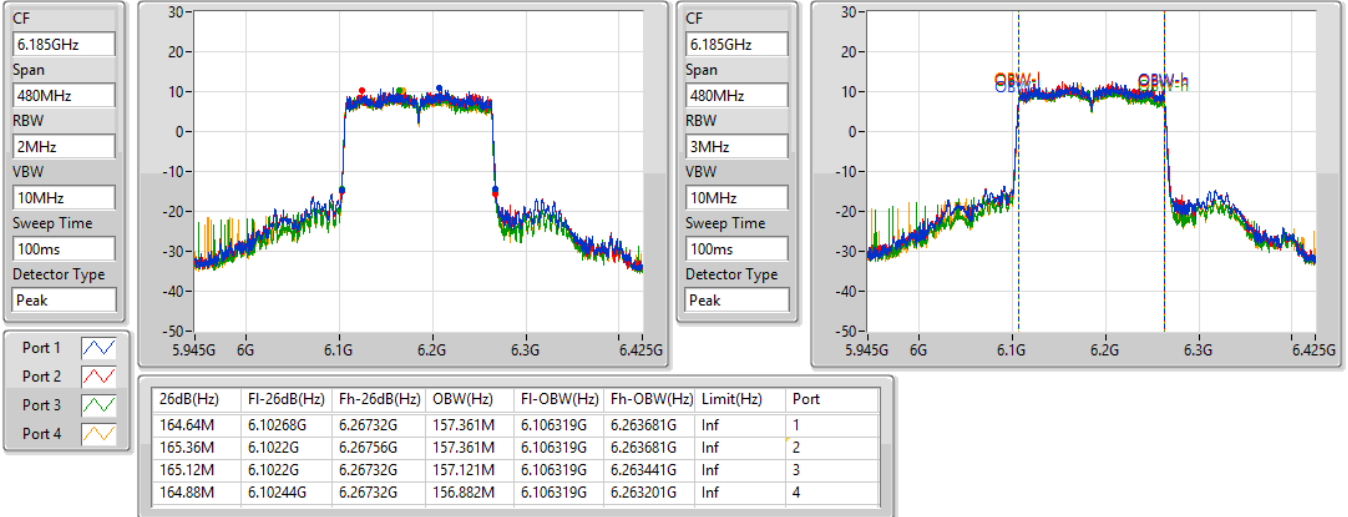
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
165.84M	5.9422G	6.10804G	156.882M	5.946799G	6.103681G	Inf	1
165.6M	5.94244G	6.10804G	156.642M	5.946799G	6.103441G	Inf	2
165.12M	5.94292G	6.10804G	157.121M	5.946559G	6.103681G	Inf	3
165.36M	5.94268G	6.10804G	156.642M	5.946799G	6.103441G	Inf	4

802.11ax HEW160-BF_Nss1,(MCS0)_4TX

EBW

6185MHz

19/02/2022

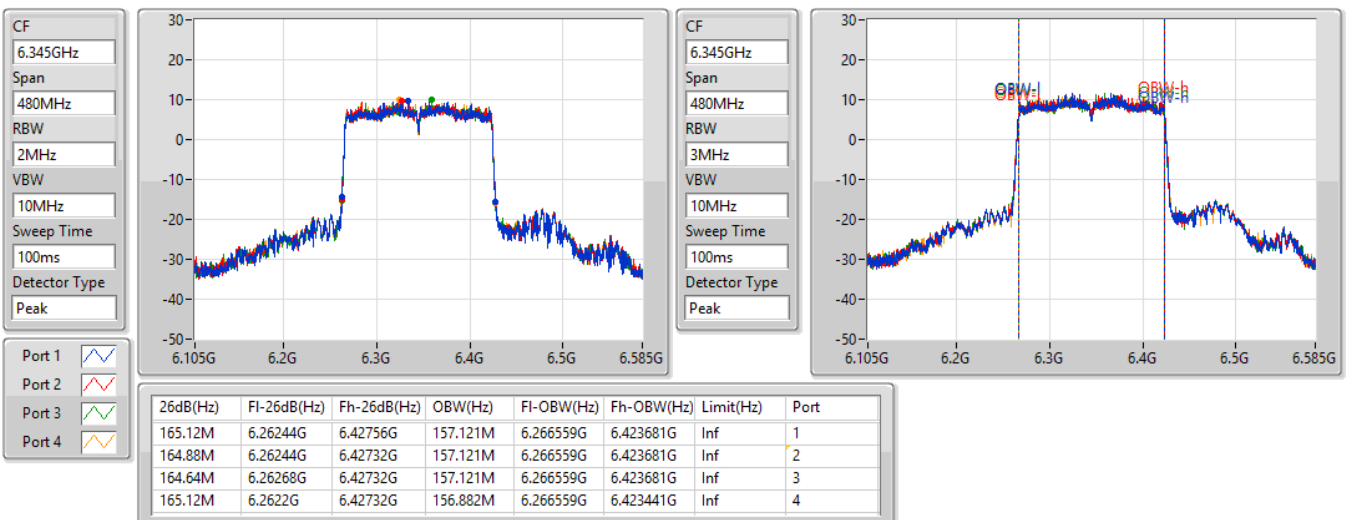


802.11ax HEW160-BF_Nss1,(MCS0)_4TX

EBW

6345MHz

19/02/2022

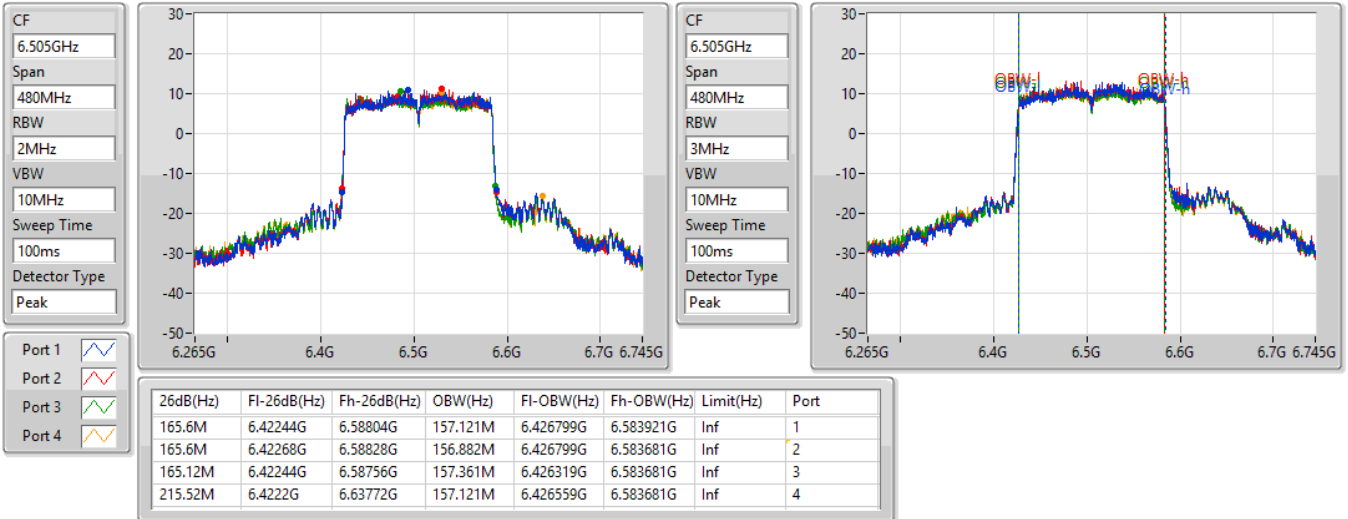


802.11ax HEW160-BF_Nss1,(MCS0)_4TX

EBW

6505MHz Straddle 6.425-6.525GHz

19/02/2022

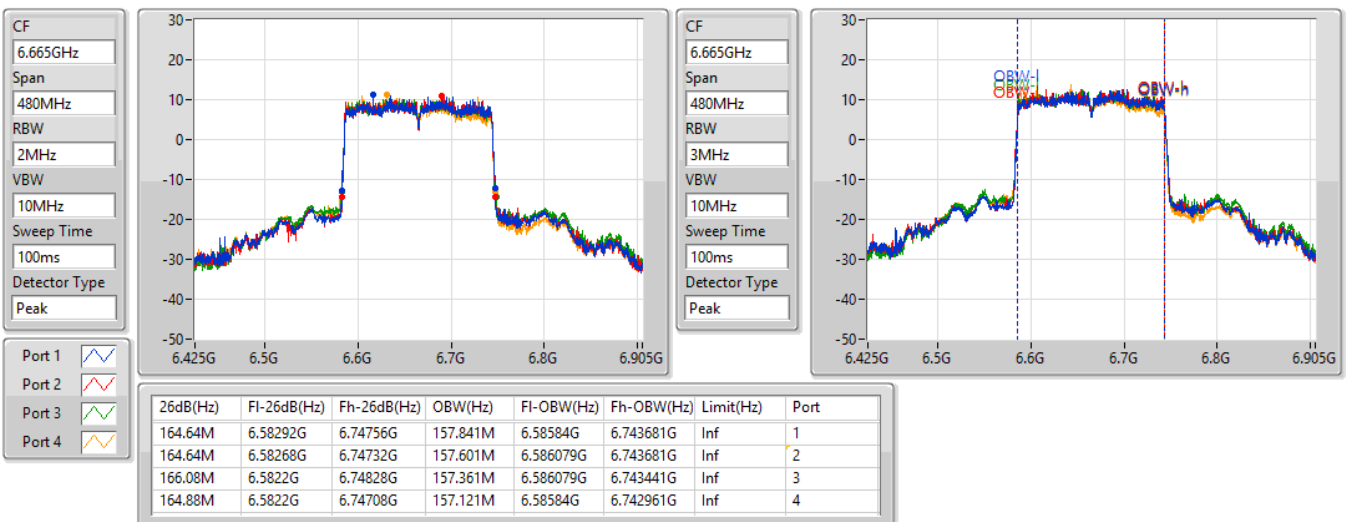


802.11ax HEW160-BF_Nss1,(MCS0)_4TX

EBW

6665MHz

19/02/2022



802.11ax HEW160-BF_Nss1,(MCS0)_4TX

EBW

6825MHz Straddle 6.525-6.875GHz

19/02/2022

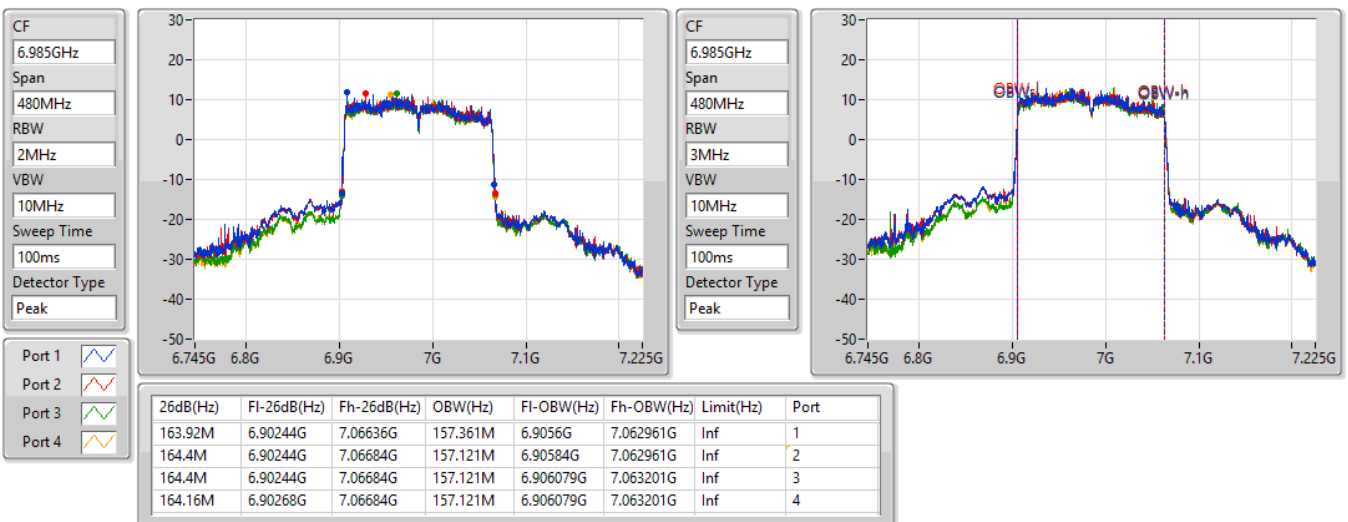


802.11ax HEW160-BF_Nss1,(MCS0)_4TX

EBW

6985MHz

19/02/2022



Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.925-6.425GHz	-	-	-	-	-
802.11ax HEW20_Nss1,(MCS0)_4TX	27.99M	19.31M	19M3D1D	22.14M	19.22M
802.11ax HEW40_Nss1,(MCS0)_4TX	47.16M	38.201M	38M2D1D	42.06M	38.081M
802.11ax HEW80_Nss1,(MCS0)_4TX	88.92M	78.201M	78M2D1D	83.4M	77.721M
802.11ax HEW160_Nss1,(MCS0)_4TX	187.2M	158.801M	159MD1D	164.4M	156.162M
6.425-6.525GHz	-	-	-	-	-
802.11ax HEW20_Nss1,(MCS0)_4TX	25.95M	19.34M	19M3D1D	22.74M	19.22M
802.11ax HEW40_Nss1,(MCS0)_4TX	45.66M	38.261M	38M3D1D	41.4M	38.081M
802.11ax HEW80_Nss1,(MCS0)_4TX	94.68M	78.201M	78M2D1D	82.44M	77.841M
802.11ax HEW160_Nss1,(MCS0)_4TX	165.36M	156.882M	157MD1D	164.88M	156.402M
6.525-6.875GHz	-	-	-	-	-
802.11ax HEW20_Nss1,(MCS0)_4TX	27.51M	19.31M	19M3D1D	22.56M	19.22M
802.11ax HEW40_Nss1,(MCS0)_4TX	43.86M	38.201M	38M2D1D	41.82M	38.081M
802.11ax HEW80_Nss1,(MCS0)_4TX	87.24M	78.321M	78M3D1D	82.44M	77.841M
802.11ax HEW160_Nss1,(MCS0)_4TX	166.32M	156.882M	157MD1D	164.4M	156.642M
6.875-7.125GHz	-	-	-	-	-
802.11ax HEW20_Nss1,(MCS0)_4TX	27M	19.28M	19M3D1D	22.65M	19.19M
802.11ax HEW40_Nss1,(MCS0)_4TX	44.46M	38.261M	38M3D1D	41.28M	38.141M
802.11ax HEW80_Nss1,(MCS0)_4TX	91.68M	78.441M	78M4D1D	83.28M	77.961M
802.11ax HEW160_Nss1,(MCS0)_4TX	165.84M	157.361M	157MD1D	163.68M	156.402M

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



Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)	Port 3-N dB (Hz)	Port 3-OBW (Hz)	Port 4-N dB (Hz)	Port 4-OBW (Hz)
802.11ax HEW20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5955MHz	Pass	Inf	24.03M	19.31M	27.99M	19.25M	24.99M	19.25M	25.74M	19.25M
6175MHz	Pass	Inf	26.43M	19.28M	23.64M	19.25M	25.2M	19.28M	25.2M	19.25M
6415MHz	Pass	Inf	22.98M	19.31M	23.52M	19.22M	22.14M	19.28M	24.69M	19.25M
6435MHz	Pass	Inf	23.4M	19.28M	23.28M	19.28M	25.26M	19.25M	24.9M	19.25M
6475MHz	Pass	Inf	25.62M	19.28M	22.74M	19.34M	25.59M	19.31M	24.3M	19.22M
6515MHz	Pass	Inf	24.87M	19.28M	23.79M	19.22M	25.95M	19.28M	23.91M	19.25M
6535MHz	Pass	Inf	23.91M	19.25M	23.37M	19.22M	22.77M	19.28M	22.89M	19.22M
6695MHz	Pass	Inf	26.16M	19.25M	22.56M	19.25M	27.51M	19.28M	26.82M	19.25M
6855MHz	Pass	Inf	26.04M	19.28M	24.33M	19.25M	26.49M	19.25M	25.05M	19.28M
6875MHz Straddle 6.525-6.875GHz	Pass	Inf	26.46M	19.31M	24.06M	19.28M	23.55M	19.22M	27.24M	19.28M
6895MHz	Pass	Inf	22.65M	19.28M	24.96M	19.28M	23.04M	19.25M	24.21M	19.28M
6995MHz	Pass	Inf	24.06M	19.25M	26.07M	19.25M	25.08M	19.25M	22.92M	19.25M
7095MHz	Pass	Inf	25.41M	19.28M	23.04M	19.19M	27M	19.25M	23.79M	19.25M
802.11ax HEW40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5965MHz	Pass	Inf	46.08M	38.201M	43.68M	38.141M	42.06M	38.201M	44.82M	38.081M
6165MHz	Pass	Inf	44.64M	38.201M	42.42M	38.201M	45.42M	38.201M	43.08M	38.201M
6405MHz	Pass	Inf	45.96M	38.201M	47.16M	38.141M	43.68M	38.201M	42.36M	38.141M
6445MHz	Pass	Inf	45.66M	38.201M	42.12M	38.141M	43.8M	38.081M	41.4M	38.141M
6485MHz	Pass	Inf	42.24M	38.201M	41.82M	38.201M	41.94M	38.201M	41.94M	38.141M
6525MHz Straddle 6.425-6.525GHz	Pass	Inf	43.08M	38.201M	42.3M	38.141M	42.78M	38.261M	42.18M	38.201M
6565MHz	Pass	Inf	43.44M	38.201M	43.38M	38.141M	43.68M	38.141M	42M	38.201M
6685MHz	Pass	Inf	42.84M	38.201M	42.3M	38.141M	42.6M	38.141M	43.38M	38.141M
6845MHz	Pass	Inf	43.86M	38.201M	42.72M	38.081M	43.02M	38.141M	42.18M	38.141M
6885MHz Straddle 6.525-6.875GHz	Pass	Inf	43.62M	38.201M	42.96M	38.141M	41.82M	38.201M	43.44M	38.201M
6925MHz	Pass	Inf	42.24M	38.201M	43.02M	38.201M	43.5M	38.141M	43.92M	38.261M
7005MHz	Pass	Inf	41.88M	38.201M	42.12M	38.141M	41.28M	38.141M	43.98M	38.141M
7085MHz	Pass	Inf	44.34M	38.201M	44.46M	38.201M	42.42M	38.141M	42.6M	38.141M
802.11ax HEW80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5985MHz	Pass	Inf	86.76M	77.721M	87.6M	77.841M	84.84M	77.961M	84.96M	77.961M
6145MHz	Pass	Inf	84M	77.841M	84.72M	78.081M	87.12M	77.841M	83.4M	78.081M
6385MHz	Pass	Inf	88.92M	78.081M	83.88M	78.201M	85.32M	78.081M	85.56M	77.961M
6465MHz	Pass	Inf	83.4M	77.961M	83.4M	77.841M	84.72M	77.961M	84M	77.961M
6545MHz Straddle 6.425-6.525GHz	Pass	Inf	86.52M	78.081M	84.48M	77.841M	82.44M	78.081M	94.68M	78.201M
6625MHz	Pass	Inf	86.64M	78.081M	84.84M	77.961M	84.24M	77.961M	85.68M	77.961M
6705MHz	Pass	Inf	84M	77.841M	82.44M	78.081M	84.84M	78.081M	84M	78.081M
6785MHz	Pass	Inf	85.8M	78.081M	84.6M	78.081M	87.24M	78.321M	85.32M	78.321M
6865MHz Straddle 6.525-6.875GHz	Pass	Inf	84.84M	78.081M	83.16M	77.841M	83.64M	78.081M	84.12M	78.201M
6945MHz	Pass	Inf	86.88M	77.961M	85.68M	77.961M	83.28M	77.961M	84.36M	78.081M
7025MHz	Pass	Inf	84M	78.081M	91.68M	78.441M	84.36M	78.201M	85.2M	78.081M
802.11ax HEW160_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
6025MHz	Pass	Inf	165.36M	156.402M	165.12M	156.402M	165.36M	156.882M	187.2M	158.801M
6185MHz	Pass	Inf	164.4M	156.402M	165.36M	156.642M	165.12M	156.882M	165.36M	156.882M
6345MHz	Pass	Inf	165.6M	156.882M	165.84M	156.642M	164.64M	156.402M	164.64M	156.162M
6505MHz Straddle 6.425-6.525GHz	Pass	Inf	165.36M	156.642M	165.12M	156.402M	165.36M	156.882M	164.88M	156.882M
6665MHz	Pass	Inf	164.88M	156.642M	165.84M	156.882M	165.12M	156.642M	164.4M	156.642M
6825MHz Straddle 6.525-6.875GHz	Pass	Inf	165.36M	156.882M	165.12M	156.642M	165.36M	156.882M	166.32M	156.882M
6985MHz	Pass	Inf	164.88M	156.402M	165.84M	157.361M	163.68M	156.642M	164.88M	156.642M

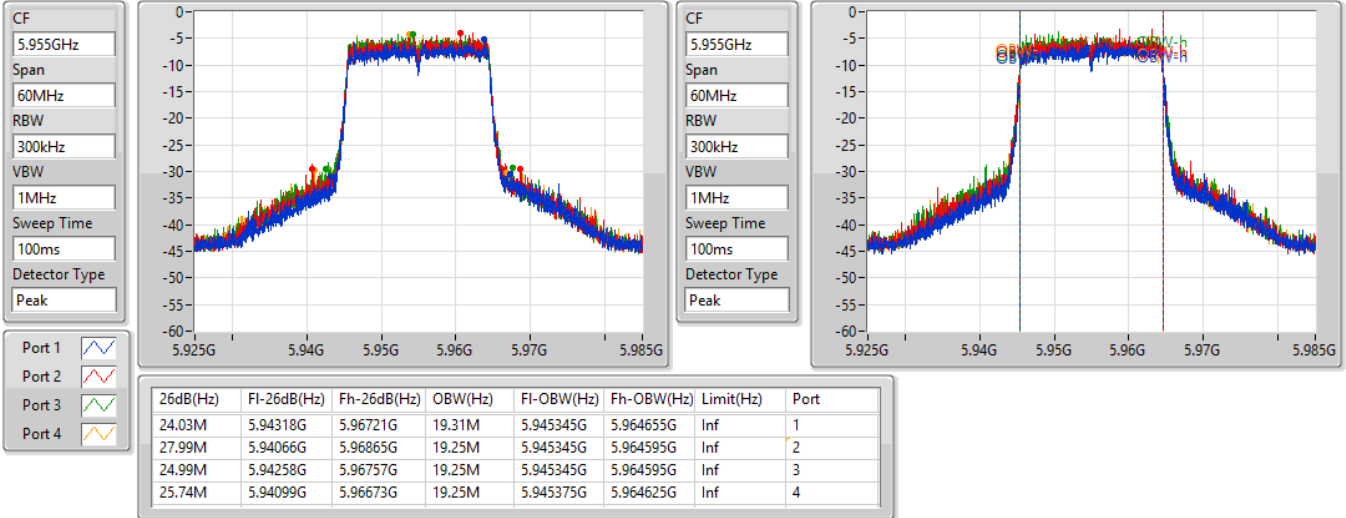
Port X-N dB = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band
 Port X-OBW = Port X 99% occupied bandwidth

802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

5955MHz

19/02/2022

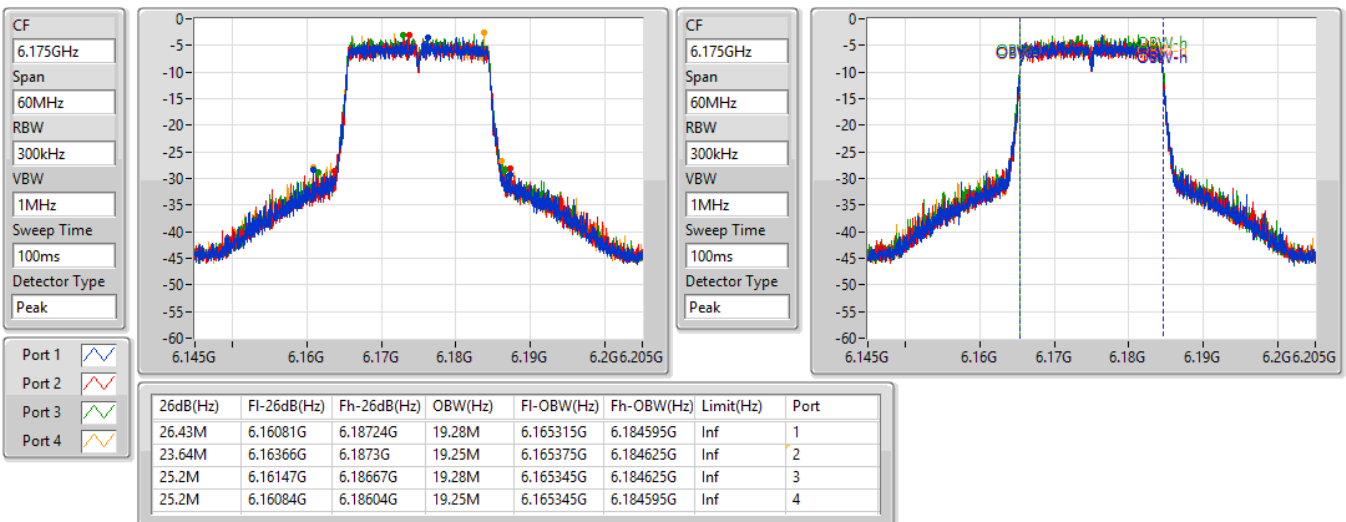


802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

6175MHz

19/02/2022



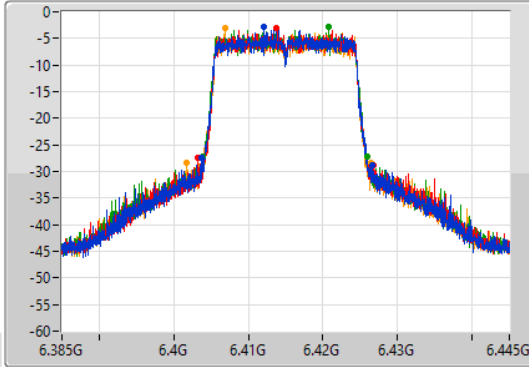
802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

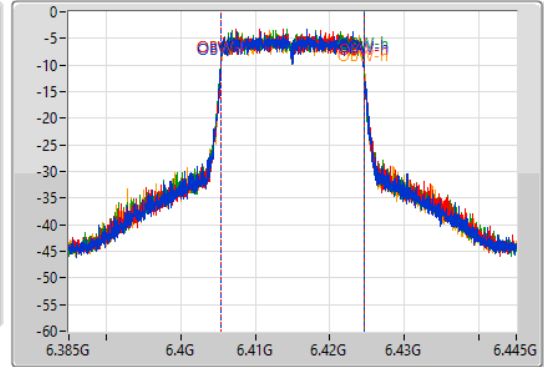
6415MHz

19/02/2022

CF
6.415GHz
Span
60MHz
RBW
300kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



CF
6.415GHz
Span
60MHz
RBW
300kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



Port 1
Port 2
Port 3
Port 4

26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
22.98M	6.40366G	6.42664G	19.31M	6.405315G	6.424625G	Inf	1
23.52M	6.4033G	6.42682G	19.22M	6.405375G	6.424595G	Inf	2
22.14M	6.40384G	6.42598G	19.28M	6.405315G	6.424595G	Inf	3
24.69M	6.40168G	6.42637G	19.25M	6.405345G	6.424595G	Inf	4

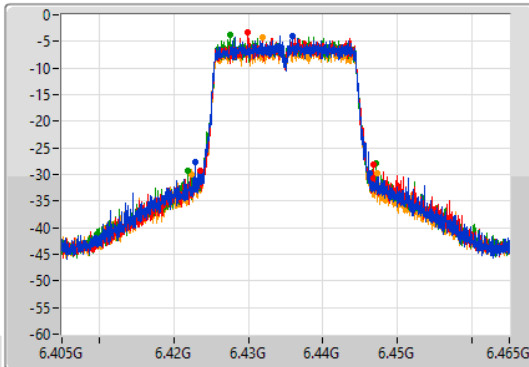
802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

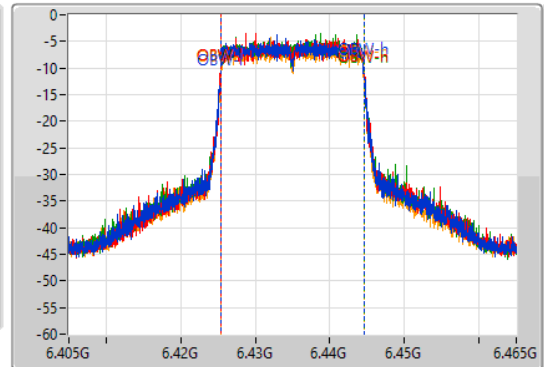
6435MHz

19/02/2022

CF
6.435GHz
Span
60MHz
RBW
300kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



CF
6.435GHz
Span
60MHz
RBW
300kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



Port 1
Port 2
Port 3
Port 4

26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
23.4M	6.42294G	6.44634G	19.28M	6.425345G	6.444625G	Inf	1
23.28M	6.42351G	6.44679G	19.28M	6.425345G	6.444625G	Inf	2
25.26M	6.42183G	6.44709G	19.25M	6.425375G	6.444625G	Inf	3
24.9M	6.42234G	6.44724G	19.25M	6.425345G	6.444595G	Inf	4

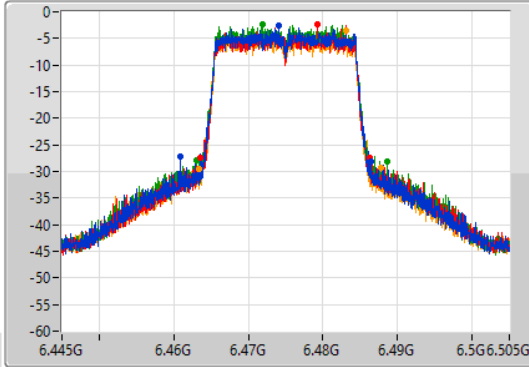
802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

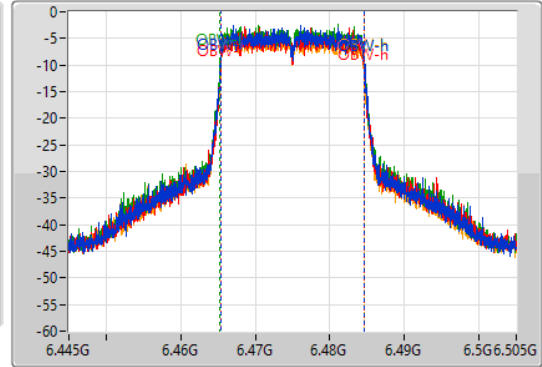
6475MHz

19/02/2022

CF
6.475GHz
Span
60MHz
RBW
300kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



CF
6.475GHz
Span
60MHz
RBW
300kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



Port 1
Port 2
Port 3
Port 4

26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
25.62M	6.46087G	6.48649G	19.28M	6.465345G	6.484625G	Inf	1
22.74M	6.46357G	6.48631G	19.34M	6.465315G	6.484655G	Inf	2
25.59M	6.46309G	6.48868G	19.31M	6.465285G	6.484595G	Inf	3
24.3M	6.46342G	6.48772G	19.22M	6.465345G	6.484565G	Inf	4

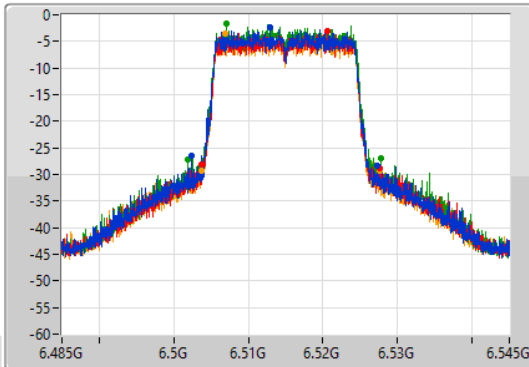
802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

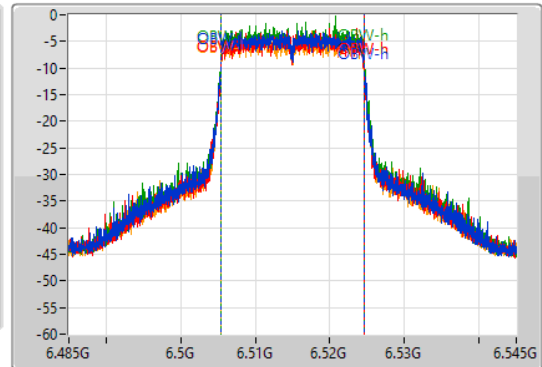
6515MHz

19/02/2022

CF
6.515GHz
Span
60MHz
RBW
300kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



CF
6.515GHz
Span
60MHz
RBW
300kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



Port 1
Port 2
Port 3
Port 4

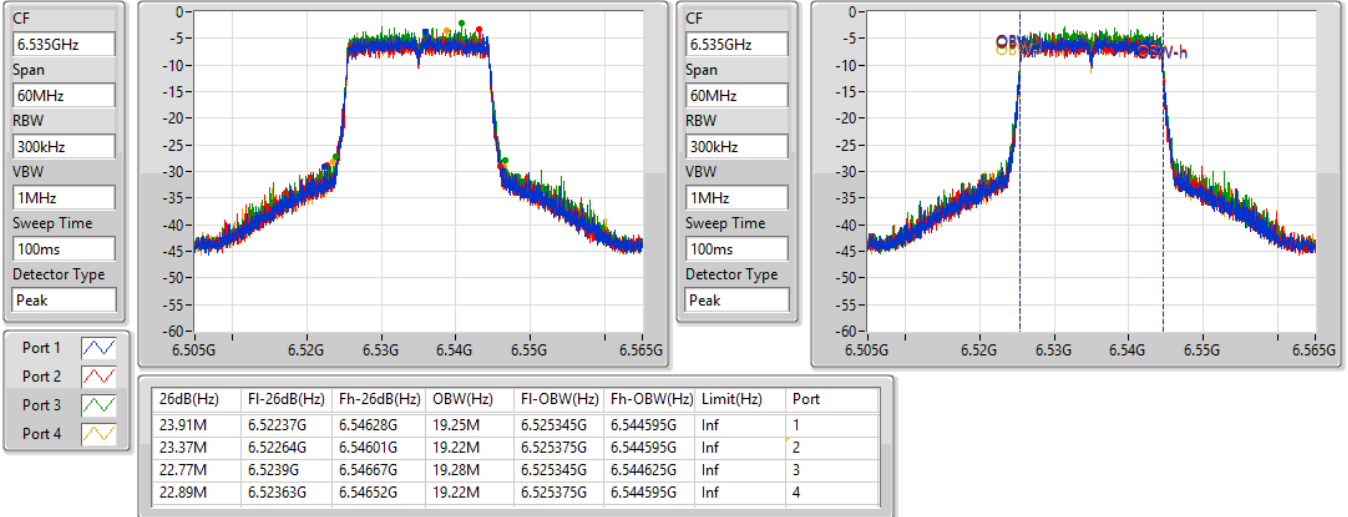
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
24.87M	6.50234G	6.52721G	19.28M	6.505345G	6.524625G	Inf	1
23.79M	6.50375G	6.52754G	19.22M	6.505375G	6.524595G	Inf	2
25.95M	6.50189G	6.52784G	19.28M	6.505375G	6.524655G	Inf	3
23.91M	6.50375G	6.52766G	19.25M	6.505345G	6.524595G	Inf	4

802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

6535MHz

19/02/2022

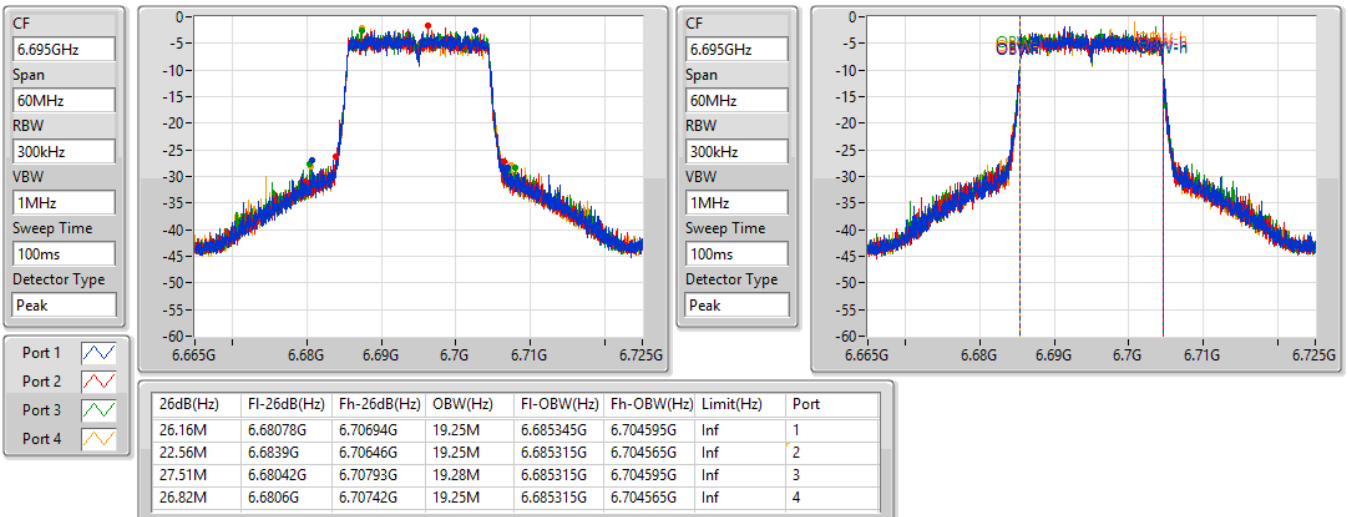


802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

6695MHz

19/02/2022



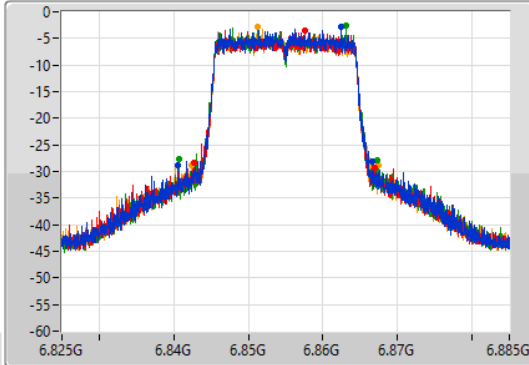
802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

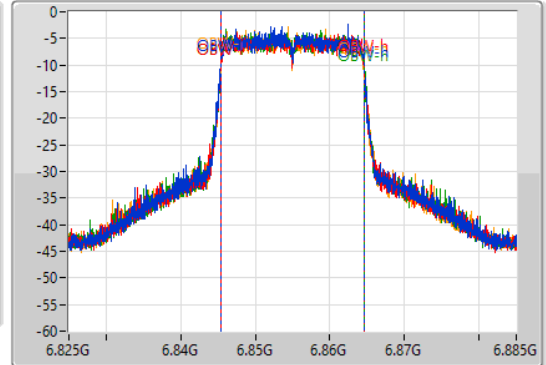
6855MHz

19/02/2022

CF
6.855GHz
Span
60MHz
RBW
300kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



CF
6.855GHz
Span
60MHz
RBW
300kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



Port 1
Port 2
Port 3
Port 4

26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
26.04M	6.84054G	6.86658G	19.28M	6.845315G	6.864595G	Inf	1
24.33M	6.84264G	6.86697G	19.25M	6.845315G	6.864565G	Inf	2
26.49M	6.84075G	6.86724G	19.25M	6.845345G	6.864595G	Inf	3
25.05M	6.84234G	6.86739G	19.28M	6.845315G	6.864595G	Inf	4

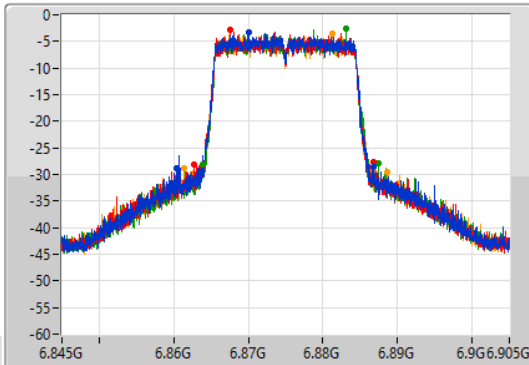
802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

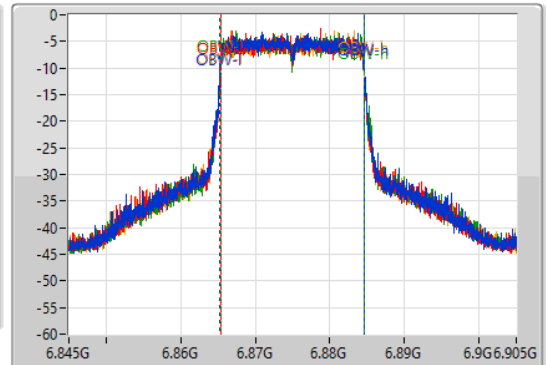
6875MHz Straddle 6.525-6.875GHz

19/02/2022

CF
6.875GHz
Span
60MHz
RBW
300kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



CF
6.875GHz
Span
60MHz
RBW
300kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



Port 1
Port 2
Port 3
Port 4

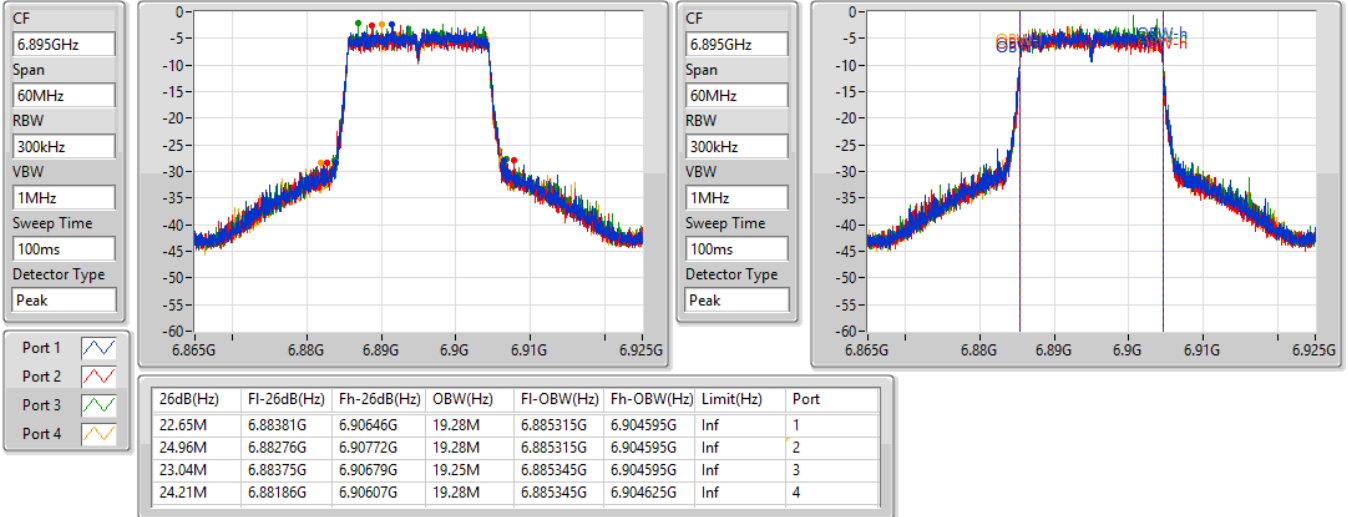
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
26.46M	6.86033G	6.88679G	19.31M	6.865285G	6.884595G	Inf	1
24.06M	6.86267G	6.88673G	19.28M	6.865315G	6.884595G	Inf	2
23.55M	6.86387G	6.88742G	19.22M	6.865375G	6.884595G	Inf	3
27.24M	6.86144G	6.88868G	19.28M	6.865315G	6.884595G	Inf	4

802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

6895MHz

19/02/2022

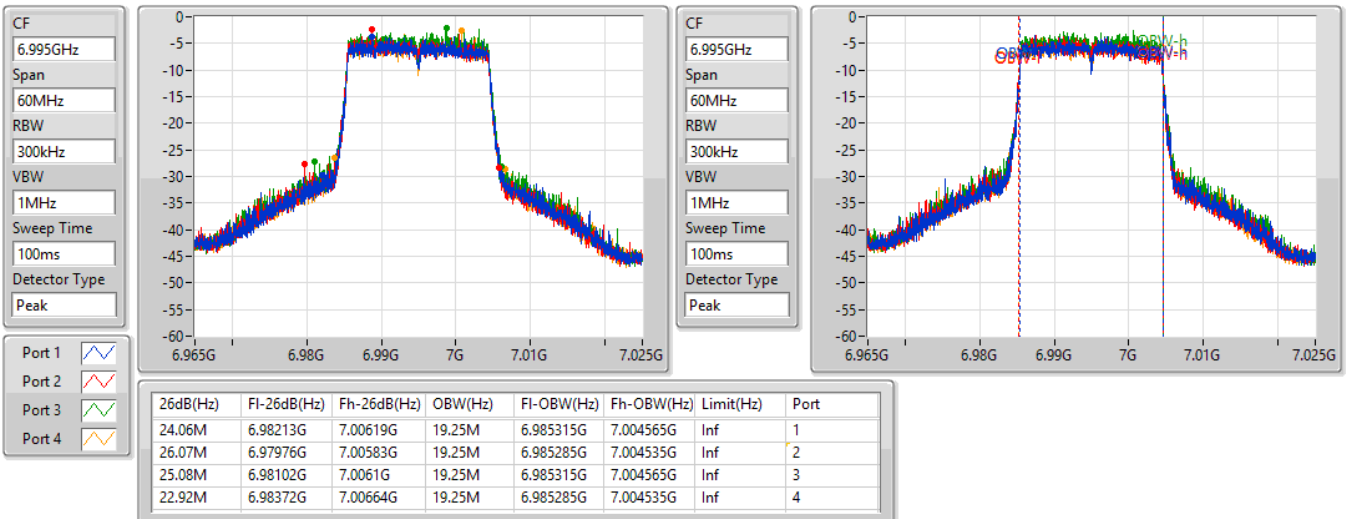


802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

6995MHz

19/02/2022



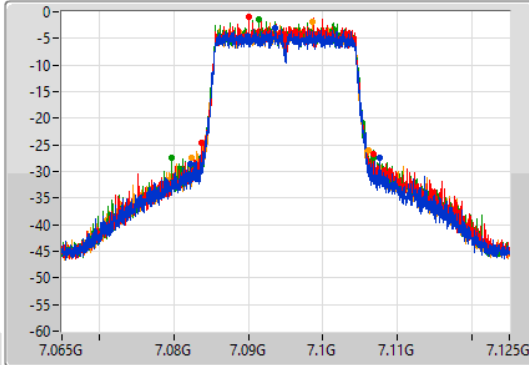
802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

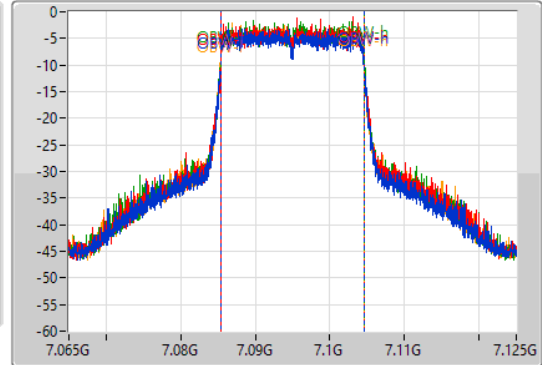
7095MHz

19/02/2022

CF
7.095GHz
Span
60MHz
RBW
300kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



CF
7.095GHz
Span
60MHz
RBW
300kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



Port 1
Port 2
Port 3
Port 4

26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
25.41M	7.08216G	7.10757G	19.28M	7.085315G	7.104595G	Inf	1
23.04M	7.08378G	7.10682G	19.19M	7.085375G	7.104565G	Inf	2
27M	7.07976G	7.10676G	19.25M	7.085345G	7.104595G	Inf	3
23.79M	7.0824G	7.10619G	19.25M	7.085315G	7.104565G	Inf	4

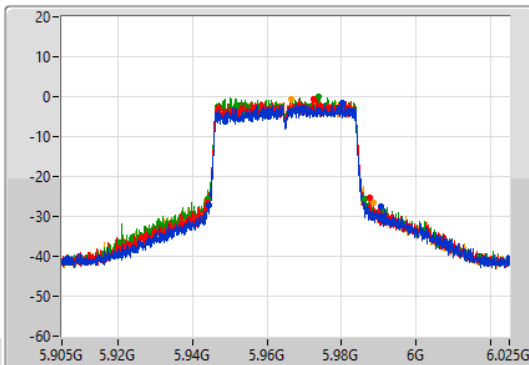
802.11ax HEW40_Nss1,(MCS0)_4TX

EBW

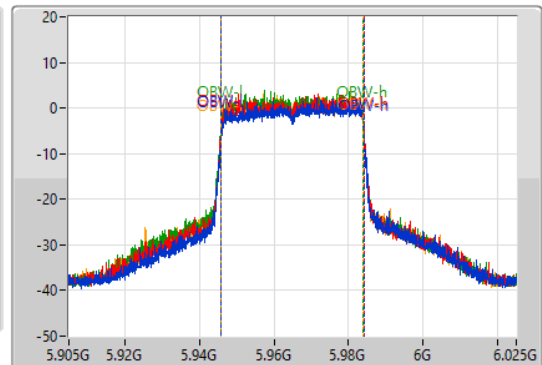
5965MHz

19/02/2022

CF
5.965GHz
Span
120MHz
RBW
500kHz
VBW
2MHz
Sweep Time
100ms
Detector Type
Peak



CF
5.965GHz
Span
120MHz
RBW
1MHz
VBW
3MHz
Sweep Time
100ms
Detector Type
Peak



Port 1
Port 2
Port 3
Port 4

26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
46.08M	5.94442G	5.9905G	38.201M	5.94593G	5.98413G	Inf	1
43.68M	5.944G	5.98768G	38.141M	5.94593G	5.98407G	Inf	2
42.06M	5.94406G	5.98612G	38.201M	5.94581G	5.98401G	Inf	3
44.82M	5.94376G	5.98858G	38.081M	5.94593G	5.98401G	Inf	4

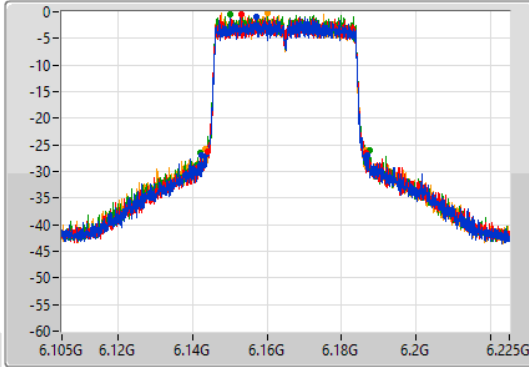
802.11ax HEW40_Nss1,(MCS0)_4TX

EBW

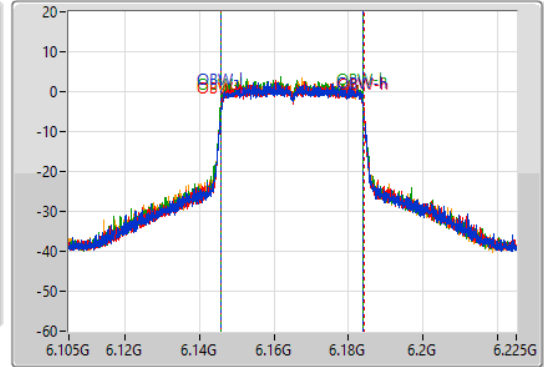
6165MHz

19/02/2022

CF
6.165GHz
Span
120MHz
RBW
500kHz
VBW
2MHz
Sweep Time
100ms
Detector Type
Peak



CF
6.165GHz
Span
120MHz
RBW
1MHz
VBW
3MHz
Sweep Time
100ms
Detector Type
Peak



Port 1
Port 2
Port 3
Port 4

26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
44.64M	6.14238G	6.18702G	38.201M	6.14581G	6.18401G	Inf	1
42.42M	6.144G	6.18642G	38.201M	6.14587G	6.18407G	Inf	2
45.42M	6.14214G	6.18756G	38.201M	6.14581G	6.18401G	Inf	3
43.08M	6.1434G	6.18648G	38.201M	6.14581G	6.18401G	Inf	4

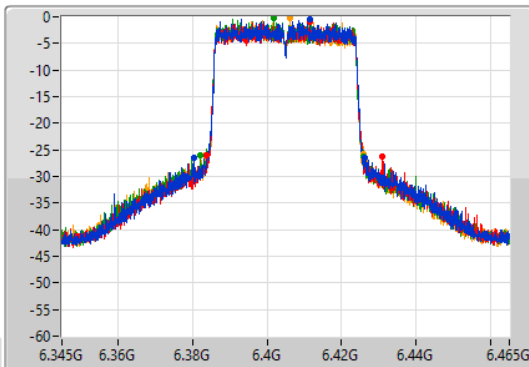
802.11ax HEW40_Nss1,(MCS0)_4TX

EBW

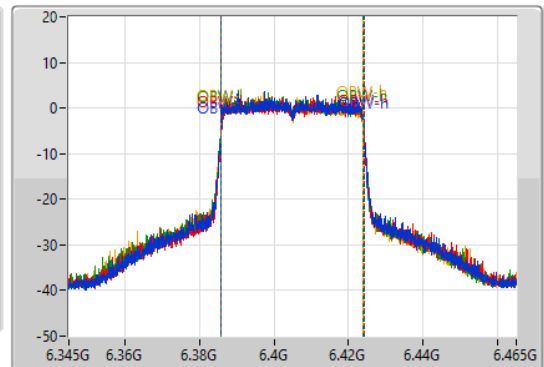
6405MHz

19/02/2022

CF
6.405GHz
Span
120MHz
RBW
500kHz
VBW
2MHz
Sweep Time
100ms
Detector Type
Peak



CF
6.405GHz
Span
120MHz
RBW
1MHz
VBW
3MHz
Sweep Time
100ms
Detector Type
Peak



Port 1
Port 2
Port 3
Port 4

26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
45.96M	6.3804G	6.42636G	38.201M	6.38587G	6.42407G	Inf	1
47.16M	6.38382G	6.43098G	38.141M	6.38593G	6.42407G	Inf	2
43.68M	6.3822G	6.42588G	38.201M	6.38581G	6.42401G	Inf	3
42.36M	6.38346G	6.42582G	38.141M	6.38581G	6.423951G	Inf	4

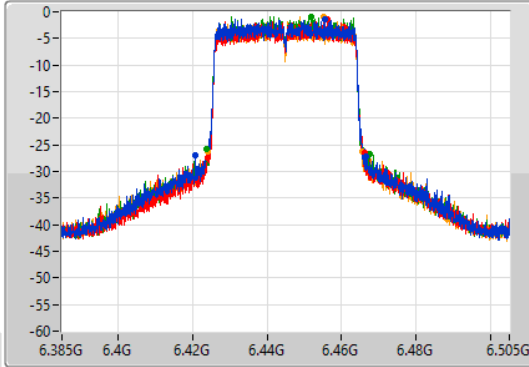
802.11ax HEW40_Nss1,(MCS0)_4TX

EBW

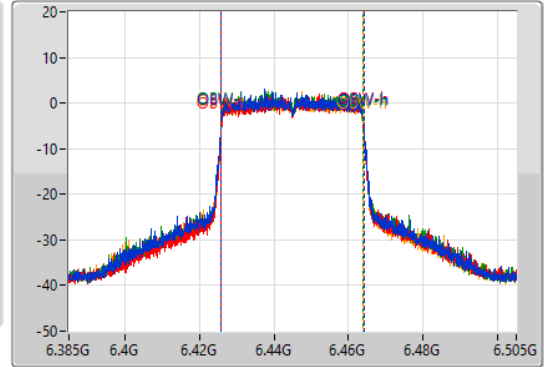
6445MHz

19/02/2022

CF
6.445GHz
Span
120MHz
RBW
500kHz
VBW
2MHz
Sweep Time
100ms
Detector Type
Peak



CF
6.445GHz
Span
120MHz
RBW
1MHz
VBW
3MHz
Sweep Time
100ms
Detector Type
Peak



Port 1
Port 2
Port 3
Port 4

26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
45.66M	6.42088G	6.46654G	38.201M	6.42587G	6.46407G	Inf	1
42.12M	6.42406G	6.46618G	38.141M	6.42593G	6.46407G	Inf	2
43.8M	6.42364G	6.46744G	38.081M	6.42593G	6.46401G	Inf	3
41.4M	6.42418G	6.46558G	38.141M	6.42587G	6.46401G	Inf	4

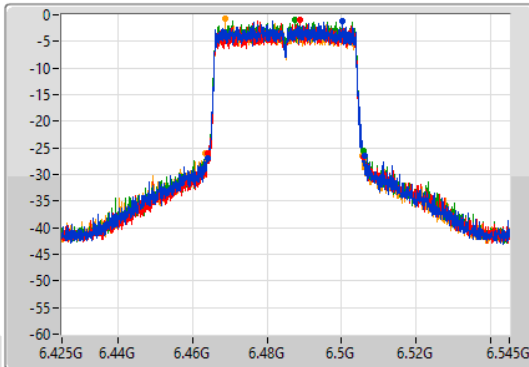
802.11ax HEW40_Nss1,(MCS0)_4TX

EBW

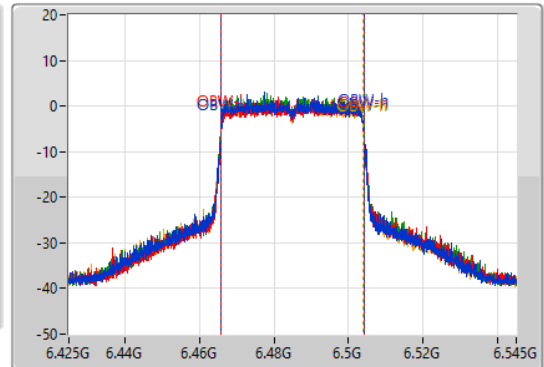
6485MHz

19/02/2022

CF
6.485GHz
Span
120MHz
RBW
500kHz
VBW
2MHz
Sweep Time
100ms
Detector Type
Peak



CF
6.485GHz
Span
120MHz
RBW
1MHz
VBW
3MHz
Sweep Time
100ms
Detector Type
Peak



Port 1
Port 2
Port 3
Port 4

26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
42.24M	6.464G	6.50624G	38.201M	6.46587G	6.50407G	Inf	1
41.82M	6.46406G	6.50588G	38.201M	6.46587G	6.50407G	Inf	2
41.94M	6.464G	6.50594G	38.201M	6.46587G	6.50407G	Inf	3
41.94M	6.46358G	6.50552G	38.141M	6.46587G	6.50401G	Inf	4