



RADIO TEST REPORT

FCC ID : QXO-AP4000NB
Equipment : Access Point
Brand Name : Extreme Networks
Model Name : AP4000
Applicant : Extreme Networks, Inc.
2121 RDU Center Drive Morrisville North Carolina
United States 27560
Manufacturer : Extreme Networks, Inc.
2121 RDU Center Drive Morrisville North Carolina
United States 27560
Standard : 47 CFR FCC Part 15.407

The product was received on May 13, 2021, and testing was started from May 21, 2021 and completed on Aug. 18, 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 report apply exclusively to the tested model / sample. Without written approval of Sporton International Inc. Hsinchu Laboratory, the test report shall not be reproduced except in full.

Approved by: Sam Chen

Sporton International Inc. Hsinchu Laboratory

No.8, Ln. 724, Bo'ai St., Zhubei City, Hsinchu County 302010, Taiwan (R.O.C.)



Table of Contents

History of this test report.....	3
Summary of Test Result.....	4
1 General Description	5
1.1 Information.....	5
1.2 Applicable Standards	10
1.3 Testing Location Information	10
1.4 Measurement Uncertainty	11
2 Test Configuration of EUT.....	12
2.1 Test Channel Mode	12
2.2 The Worst Case Measurement Configuration.....	17
2.3 EUT Operation during Test	20
2.4 Accessories	20
2.5 Support Equipment.....	21
2.6 Test Setup Diagram	23
3 Transmitter Test Result	27
3.1 AC Power-line Conducted Emissions	27
3.2 Emission Bandwidth	29
3.3 Maximum Equivalent Isotropically Radiated Power (E.I.R.P.)	30
3.4 Peak Power Spectral Density (E.I.R.P.).....	34
3.5 Unwanted Emissions.....	38
3.6 Contention Based Protocol.....	43
4 Test Equipment and Calibration Data	44
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 Photos	
Photographs of EUT v01	



History of this test report

Report No.	Version	Description	Issued Date
FR151220-19AC	01	Initial issue of report	Aug. 29, 2022
FR151220-19AC	02	Revising the test results of appendix F	Sep. 06, 2022



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.: 151220.

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:

1. The test configuration, test mode and test software were written in this test report are declared by the manufacturer.
2. 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: Penny Kao**

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 Scanning radio 3

Band	Mode	BWch (MHz)	Nant
UNII 5~8	802.11ax HEW20	20	1, 2
UNII 5~8	802.11ax HEW20-BF	20	2
UNII 5~8	802.11ax HEW40	40	1, 2
UNII 5~8	802.11ax HEW40-BF	40	2
UNII 5~8	802.11ax HEW80	80	1, 2
UNII 5~8	802.11ax HEW80-BF	80	2
UNII 5~8	802.11ax HEW160	160	1, 2
UNII 5~8	802.11ax HEW160-BF	160	2

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.	Radio	Model Name	Antenna Type	Connector	Gain (dBi)
1	1, 2	N/A	PIFA	I-PEX	Note 1
2	1, 2	N/A	PIFA	I-PEX	
3	3	N/A	PIFA	I-PEX	
4	3	N/A	PIFA	I-PEX	
5	3	N/A	PIFA	I-PEX	
6	3	N/A	PIFA	I-PEX	

Ant.	WLAN 2.4GHz Port	WLAN 5GHz UNII 1~3 Port	Scanning radio (WLAN 2.4GHz) Port	Scanning radio (5GHz UNII 1~3) Port	Scanning radio (6E UNII 5~8) Port
1	2	2	-	-	-
2	1	1	-	-	-
3	-	-	2	2	-
4	-	-	1	1	-
5	-	-	-	-	1
6	-	-	-	-	2

Note 1: <Antenna Gain>

Ant.	Gain (dBi)													
	2.4GHz	Scanning radio (2.4GHz)	WLAN 5GHz UNII 1~3				Scanning radio (5GHz UNII 1~3)				Scanning radio (6E UNII 5~8)			
			UNII1	UNII2A	UNII2C	UNII3	UNII1	UNII2A	UNII2C	UNII3	UNII1	UNII2A	UNII2C	UNII3
1	2.62	-	2.31	2.37	2.15	1.81	-	-	-	-	-	-	-	-
2	2.61	-	1.71	1.64	1.27	1.75	-	-	-	-	-	-	-	-
3	-	5.20	-	-	-	-	5.91	5.91	5.39	5.80	-	-	-	-
4	-	5.32	-	-	-	-	5.11	5.11	5.11	5.62	-	-	-	-
5	-	-	-	-	-	-	-	-	-	-	4.34	4.56	4.56	4.50
6	-	-	-	-	-	-	-	-	-	-	4.88	5.25	5.25	5.05

<Radio 1, 2 Directional Gain>

Directional Gain(dBi)							
Ant.	Radio	Item	WLAN 2.4GHz	WLAN 5GHz			
				UNII 1	UNII 2A	UNII 2C	UNII 3
1	1, 2	2T1S	4.72	4.87	4.3	3.39	3.69
2	1, 2	2T2S	2.62	2.31	2.37	2.15	1.81

<Radio 3 Directional Gain>

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

Ex.

Directional Gain (NSS1) formula :

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

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

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

$DG = 10 \log[(NSS1(g1,1) + NSS1(g1,2))^2 / N_{ANT}] \Rightarrow 10 \log[(10^{G1/20} + 10^{G2/20})^2 / N_{ANT}]$

Where ;

$G1 = 10$; $G2 = 10$;

2.4G $G1 = 5.20$ dBi; $G2 = 5.32$ dBi ; $DG = 8.27$ dBi

5G Band1 $G1 = 5.91$ dBi; $G2 = 5.11$ dBi; $DG = 8.53$ dBi

5G Band2 $G1 = 5.91$ dBi; $G2 = 5.11$ dBi; $DG = 8.53$ dBi

5G Band3 $G1 = 5.39$ dBi; $G2 = 5.11$ dBi; $DG = 8.26$ dBi

5G Band4 $G1 = 5.80$ dBi; $G2 = 5.62$ dBi; $DG = 8.72$ dBi

6G Band1 $G1 = 4.34$ dBi; $G2 = 4.88$ dBi; $DG = 7.62$ dBi

6G Band2 $G1 = 4.56$ dBi; $G2 = 5.25$ dBi; $DG = 7.92$ dBi

6G Band3 $G1 = 4.56$ dBi; $G2 = 5.25$ dBi; $DG = 7.92$ dBi

6G Band4 $G1 = 4.50$ dBi; $G2 = 5.05$ dBi; $DG = 7.79$ dBi

Note 2: The above information (except Radio 1, 2 gain) was declared by manufacturer.

Radio 1, 2: Maximum Directional Gain following KDB662911 D03.

Radio 3: Maximum Directional Gain following KDB662911 D01.

Note 3: The EUT has six antennas.

< Radio 1 >

For 2.4GHz:

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

For 1TX

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 2TX/2RX

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

Port 1 and Port 2 could transmit/receive simultaneously.

< Radio 2 >

For 5GHz UNII 1~3:

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

For 1TX

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 2TX/2RX

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

Port 1 and Port 2 could transmit/receive simultaneously.

< Scanning radio 3 >

For 2.4GHz:

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

For 5GHz UNII 1~3:

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

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

Port 1 and Port 2 could transmit/receive simultaneously.

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



For 1TX

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

For 2TX/2RX

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

Port 1 and Port 2 could transmit/receive simultaneously.

1.1.3 Mode Test Duty Cycle

For Scanning radio 3

1T1S

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq 1/T$
802.11ax HEW20	0.978	0.1	1.488m	1k
802.11ax HEW40	0.963	0.16	780.313u	3k
802.11ax HEW80	0.929	0.32	412.969u	3k
802.11ax HEW160	0.876	0.57	236.187u	10k

2T1S for beamforming mode

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq 1/T$
802.11ax HEW20-BF	0.978	0.1	1.488m	1k
802.11ax HEW40-BF	0.96	0.18	780.313u	3k
802.11ax HEW80-BF	0.926	0.33	413.125u	3k
802.11ax HEW160-BF	0.889	0.51	236.25u	10k

2T2S

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq 1/T$
802.11ax HEW20	0.963	0.16	787.5u	3k
802.11ax HEW40	0.935	0.29	433.75u	3k
802.11ax HEW80	0.888	0.52	243.438u	10k
802.11ax HEW160	0.831	0.8	161.875u	10k

Note:

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

**1.1.4 EUT Operational Condition**

EUT Power Type	From PoE			
Beamforming Function	☒	With beamforming	☐	Without beamforming
	The product has beamforming function for n/VHT/ax in 2.4GHz of radio 1, n/ac/ax in 5GHz UNII 1~UNII 3 of radio 2, and ax in 6GHz UNII 5~UNII 8 of radio 3.			
Device Type	☒	Indoor Access Point	☐	Subordinate
	☐	Indoor Client	☐	Standard Power Access Point
	☐	Dual Client	☐	Standard Client
	☐	Fixed Client		
Test Software Version	For non-beamforming mode: accessMtool [version 3.2.1.0] For beamforming mode: DOS [ver 6.1.7601]			
Software / Firmware Version for Contention-Based Protocol			HiveOS 10.4r1 Nantucket_SoC build-264141-dbg	

Note: The above information was declared by manufacturer.

1.1.5 Table for Radio function

Radio	WLAN 2.4GHz	5GHz UNII 1~3	Scanning radio (WLAN 2.4GHz / 5GHz UNII 1~3 / 6E UNII 5~8)
1	V (AP, Bridge, Mesh)	-	-
2	-	V AP for UNII 1~3 Bridge, Mesh for UNII 1, 3	-
3	-	-	V (AP)

Note: The above information was declared by manufacturer.

1.1.6 Table for EUT support function

Function
AP
Bridge
Mesh

Note: For above table list, only AP mode was tested and recorded in this test.

Note: The above information was declared by manufacturer.



1.2 Applicable Standards

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

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

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

- ♦ FCC KDB 987594 D02 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 (for other tests)	TH02-CB	Paul Chen	23.4~24 / 55~60	May 22, 2021~Jun. 29, 2021 Oct. 25, 2021~Oct. 26, 2021
Radiated below 1GHz	03CH03-CB	Gondor Hung	23.8-24.9 / 55-58	Jul. 19, 2022
Radiated above 1GHz	03CH04-CB	Kevin Huang	26~26.8 / 65~67	May 21, 2021~Jul. 14, 2021
AC Conduction	CO02-CB	Dean Chang	23~24 / 53~55	Aug. 09, 2022
RF Conducted (for other tests)	DF02-CB	Jeff Wu	24.7~25.3 / 63~65	Aug. 31, 2021
RF Conducted (CBP function check)	DF02-CB	Jeff Wu	24.7~25.3 / 63~65	Aug. 17, 2022~Aug. 18, 2022

Note: The tested sample of the AC Conduction, Radiated below 1GHz and CBP function check test item was received on Jul. 12, 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 Date: Other Test Date

Test Items	Uncertainty	Remark
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%

Test Date: After May 31, 2022

Test Items	Uncertainty	Remark
Conducted Emission (150kHz ~ 30MHz)	3.4 dB	Confidence levels of 95%
Radiated Emission (9kHz ~ 30MHz)	3.4 dB	Confidence levels of 95%
Radiated Emission (30MHz ~ 1,000MHz)	5.6 dB	Confidence levels of 95%
Conducted Emission	3.2 dB	Confidence levels of 95%



2 Test Configuration of EUT

2.1 Test Channel Mode

For Scanning radio 3
1T1S

Mode	Power Setting	Power Setting (dBm)
802.11ax HEW20_Nss1,(MCS0)_1TX	-	-
5955MHz	54	13.5
6175MHz	61	15.25
6415MHz	53	13.25
6435MHz	53	13.25
6475MHz	54	13.5
6515MHz	55	13.75
6535MHz	56	14
6695MHz	58	14.5
6855MHz	66	16.5
6875MHz Straddle 6.525-6.875GHz	67	16.75
6895MHz	69	17.25
6995MHz	57	14.25
7095MHz	54	13.5
802.11ax HEW40_Nss1,(MCS0)_1TX	-	-
5965MHz	75	18.75
6165MHz	80	20
6405MHz	71	17.75
6445MHz	69	17.25
6485MHz	69	17.25
6525MHz Straddle 6.425-6.525GHz	66	16.5
6565MHz	69	17.25
6685MHz	74	18.5
6845MHz	78	19.5
6885MHz Straddle 6.525-6.875GHz	79	19.75
6925MHz	79	19.75
7005MHz	74	18.5
7085MHz	69	17.25
802.11ax HEW80_Nss1,(MCS0)_1TX	-	-
5985MHz	85	21.25
6145MHz	94	23.5
6385MHz	83	20.75
6465MHz	79	19.75
6545MHz Straddle 6.425-6.525GHz	81	20.25



Mode	Power Setting	Power Setting (dBm)
6625MHz	81	20.25
6705MHz	86	21.5
6785MHz	89	22.25
6865MHz Straddle 6.525-6.875GHz	88	22
6945MHz	86	21.5
7025MHz	88	22
802.11ax HEW160_Nss1,(MCS0)_1TX	-	-
6025MHz	83	20.75
6185MHz	95	23.75
6345MHz	91	22.75
6505MHz Straddle 6.425-6.525GHz	93	23.25
6665MHz	95	23.75
6825MHz Straddle 6.525-6.875GHz	99	24.75
6985MHz	81	20.25

**2T1S for beamforming mode**

Mode	Power Setting	Power Setting (dBm)
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	-	-
5955MHz	37	9.25
6175MHz	36	9
6415MHz	37	9.25
6435MHz	41	10.25
6475MHz	39	9.75
6515MHz	40	10
6535MHz	39	9.75
6695MHz	43	10.75
6855MHz	43	10.75
6875MHz	41	10.25
6895MHz	42	10.5
6995MHz	40	10
7095MHz	40	10
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-	-
5965MHz	53	13.25
6165MHz	51	12.75
6405MHz	53	13.25
6445MHz	57	14.25
6485MHz	54	13.5
6525MHz	55	13.75
6565MHz	54	13.5
6685MHz	58	14.5
6845MHz	57	14.25
6885MHz	54	13.5
6925MHz	55	13.75
7005MHz	57	14.25
7085MHz	56	14
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	-	-
5985MHz	62	15.5
6145MHz	57	14.25
6385MHz	62	15.5
6465MHz	69	17.25
6545MHz	71	17.75
6625MHz	72	18
6705MHz	75	18.75
6785MHz	73	18.25
6865MHz	72	18
6945MHz	73	18.25



Mode	Power Setting	Power Setting (dBm)
7025MHz	74	18.5
802.11ax HEW160-BF_Nss1,(MCS0)_2TX	-	-
6025MHz	77	19.25
6185MHz	80	20
6345MHz	78	19.5
6505MHz	80	20
6665MHz	81	20.25
6825MHz	83	20.75
6985MHz	81	20.25

2T2S

Mode	Power Setting	Power Setting (dBm)
802.11ax HEW20_Nss2,(MCS0)_2TX	-	-
5955MHz	51	12.75
6175MHz	55	13.75
6415MHz	50	12.5
6435MHz	50	12.5
6475MHz	53	13.25
6515MHz	53	13.25
6535MHz	55	13.75
6695MHz	56	14
6855MHz	54	13.5
6875MHz Straddle 6.525-6.875GHz	55	13.75
6895MHz	56	14
6995MHz	52	13
7095MHz	54	13.5
802.11ax HEW40_Nss2,(MCS0)_2TX	-	-
5965MHz	65	16.25
6165MHz	66	16.5
6405MHz	61	15.25
6445MHz	60	15
6485MHz	64	16
6525MHz Straddle 6.425-6.525GHz	64	16
6565MHz	63	15.75
6685MHz	68	17
6845MHz	65	16.25
6885MHz Straddle 6.525-6.875GHz	68	17
6925MHz	65	16.25
7005MHz	67	16.75
7085MHz	65	16.25



Mode	Power Setting	Power Setting (dBm)
802.11ax HEW80_Nss2,(MCS0)_2TX	-	-
5985MHz	76	19
6145MHz	78	19.5
6385MHz	73	18.25
6465MHz	72	18
6545MHz Straddle 6.425-6.525GHz	74	18.5
6625MHz	77	19.25
6705MHz	76	19
6785MHz	74	18.5
6865MHz Straddle 6.525-6.875GHz	76	19
6945MHz	75	18.75
7025MHz	82	20.5
802.11ax HEW160_Nss2,(MCS0)_2TX	-	-
6025MHz	81	20.25
6185MHz	84	21
6345MHz	83	20.75
6505MHz Straddle 6.425-6.525GHz	87	21.75
6665MHz	86	21.5
6825MHz Straddle 6.525-6.875GHz	84	21
6985MHz	80	20

2.2 The Worst Case Measurement Configuration

The Worst Case Mode for Following Conformance Tests	
Tests Item	AC power-line conducted emissions
Condition	AC power-line conducted measurement for line and neutral Test Voltage: 120Vac / 60Hz
Operating Mode	Normal Link
1	EUT_Radio 1 + Radio 2 + Radio 3 (2.4GHz) + PoE
2	EUT_Radio 1 + Radio 2 + Radio 3 (5GHz) + PoE
3	EUT_Radio 1 + Radio 2 + Radio 3 (6GHz) + PoE
For operating mode 3 is the worst case and it was record in this test report.	

The Worst Case Mode for Following Conformance Tests	
Tests Item	Emission Bandwidth Contention Based Protocol
Test Condition	Conducted measurement at transmit chains
1	Refer to note 1 for detail operating mode

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
	1. The EUT was performed at Y axis and Z axis and the worst case was found at Z axis. So the measurement will follow this same test configuration. 2. Refer to note 1 for detail operating mode
1	Scanning radio 3_1T1S_EUT in Z axis
2	Scanning radio 3_2T1S for beamforming mode_EUT in Z axis
3	Scanning radio 3_2T2S_EUT in Z axis



The Worst Case Mode for Following Conformance Tests	
Tests Item	Unwanted Emissions
Test Condition	Radiated measurement If EUT consist of multiple antenna assembly (multiple antenna are used in EUT regardless of spatial multiplexing MIMO configuration), the radiated test should be performed with highest antenna gain of each antenna type.
Operating Mode < 1GHz	Normal Link for Radio 1 + Radio 2 + Radio 3 CTX for Radio 4
1	EUT in Z axis_Radio 1 + Radio 2 + Radio 3 (2.4GHz) + PoE
2	EUT in Y axis_Radio 1 + Radio 2 + Radio 3 (2.4GHz) + PoE
3	EUT in X axis_Radio 1 + Radio 2 + Radio 3 (2.4GHz) + PoE
Mode 1 has been evaluated to be the worst case among Mode 1~3, thus measurement for Mode 4 and Mode 5 will follow this same test mode.	
4	EUT in Z axis_Radio 1 + Radio 2 + Radio 3 (5GHz) + PoE
5	EUT in Z axis_Radio 1 + Radio 2 + Radio 3 (6GHz) + PoE
For operating mode 4 is the worst case and it was record in this test report.	
Operating Mode > 1GHz	CTX
	1. Scanning radio 3 / 1T1S and 2T1S The EUT was performed at X axis, Y axis and Z axis and the worst case was found at Z axis. So the measurement will follow this same test configuration.
	2. Scanning radio 3 / 2T2S The EUT was performed at X axis, Y axis and Z axis and the worst case was found at Y axis. So the measurement will follow this same test configuration.
	3. Refer to note 1 for detail operating mode
1	Scanning radio 3_1T1S_EUT in Z axis
2	Scanning radio 3_2T1S_EUT in Z axis for beamforming mode
3	Scanning radio 3_2T2S_EUT in Y axis

The Worst Case Mode for Following Conformance Tests	
Tests Item	Emission MASK
Test Condition	Conducted measurement at transmit chains
1	Refer to note 1 for detail operating mode



The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis - Co-location RF Exposure Evaluation
Operating Mode	
1	Radio 1_2.4GHz + Radio 2_5GHz + Scanning radio 3_2.4GHz
2	Radio 1_2.4GHz + Radio 2_5GHz + Scanning radio 3_5GHz
3	Radio 1_2.4GHz + Radio 2_5GHz + Scanning radio 3_6E
Refer to Sporton Test Report No.: FA151220-19 for Co-location RF Exposure Evaluation.	

Note 1: Test Mode

Test Mode				
Test Item	802.11ax HEW20/40/80/160			
	1T1S	CDD 2T1S	TXBF 2T1S	CDD 2T2S
Maximum Equivalent Isotropically Radiated Power	V	Note 2	V	V
Emission Bandwidth	V	Note 2	V	V
Peak Power Spectral Density	V	Note 2	V	V
Contention Based Protocol	V			
Radiated Emission	V	Note 2	V	V
Band Edge Emission	V	Note 2	V	V
Emission MASK	V	Note 2	V	V

Note 2: 802.11ax HEW20/40 2T1S CDD mode was covered by 802.11ax HEW20/40 2T2S, due to
 $2T1S = \min(2T2S, (2T2S - (10 \cdot \log(2/1) - 2T2S \text{ (worst case of PSD/BE/Harmonic) MARGIN})))$.

Note 3: The PoE is for measurement only, would not be marketed.

PoE information as below:

Power	Brand	Model
PoE	Microsemi	PD-9001-10GC/AC



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 Wireless AP and transmit duty cycle no less than 98%.

For Normal Link:

During the test, the EUT operation to normal function.

2.4 Accessories

Accessories
Cradle*1



2.5 Support Equipment

For AC Conduction:

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	ETH0/PoE+ NB	DELL	E6430	N/A
B	ETH1 NB	DELL	E6430	N/A
C	2.4G NB	DELL	E6430	N/A
D	5G NB	DELL	E6430	N/A
E	R3(2.4G/5G/6E) NB	DELL	E6430	N/A
F	PoE	Microsemi	PD-9001-10GC/AC	N/A
G	Flash disk3.0	Transcend	JetFlash-700	N/A

For Radiated (below 1GHz):

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	PoE	Microsemi	PD-9001-10GC/AC	N/A
B	Lan Notebook	DELL	OPTIPLEX 3010	N/A
C	WAN Notebook	DELL	OPTIPLEX 3010	N/A
D	2.4G WiFi Notebook	DELL	OPTIPLEX 3010	N/A
E	5G WiFi Notebook	DELL	OPTIPLEX 3010	N/A
F	6E WiFi Notebook	DELL	OPTIPLEX 3010	N/A
G	Flash disk3.0	Silicon Power	B06	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	Microsemi	PD-9001-10GC/AC	N/A

Beamforming mode

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	Notebook	DELL	E4300	N/A
B	PoE	Microsemi	PD-9001-10GC/AC	N/A
C	AP	Extereme Network,Inc.	AP4000U	N/A
D	Notebook	DELL	E4300	N/A

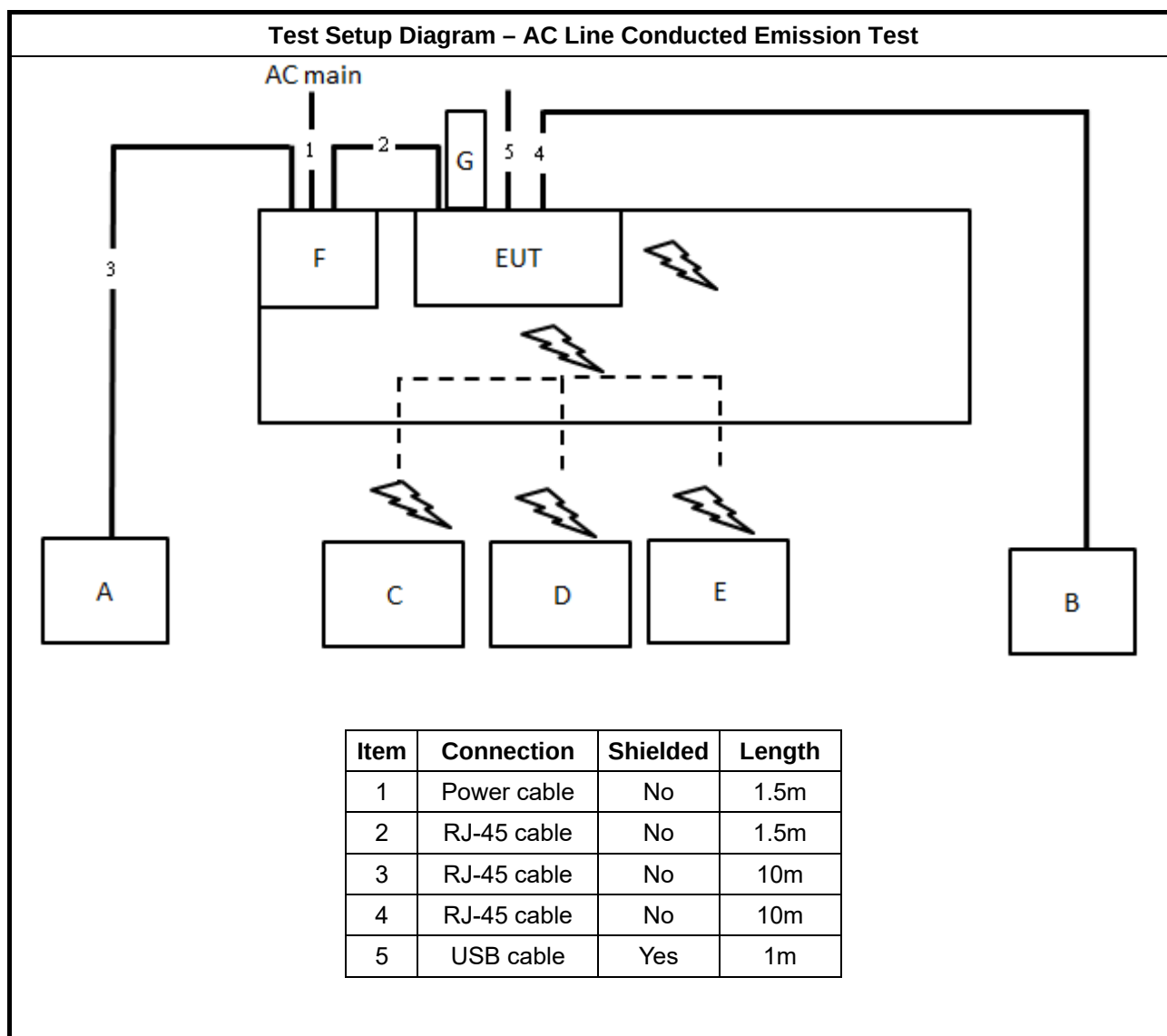
For RF Conducted (Other tests):

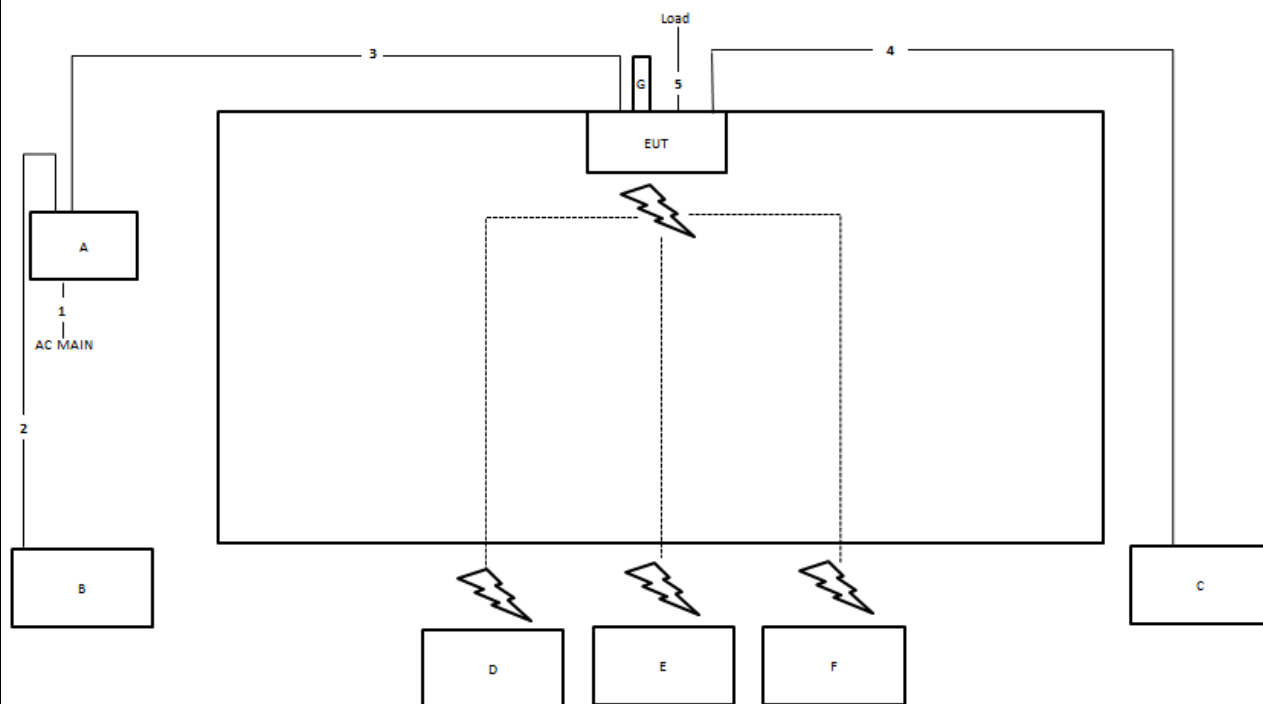
Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	Notebook	DELL	E4300	N/A
B	PoE	Microsemi	PD-9001-10GC/AC	N/A

For RF Conducted (Contention Based Protocol test):

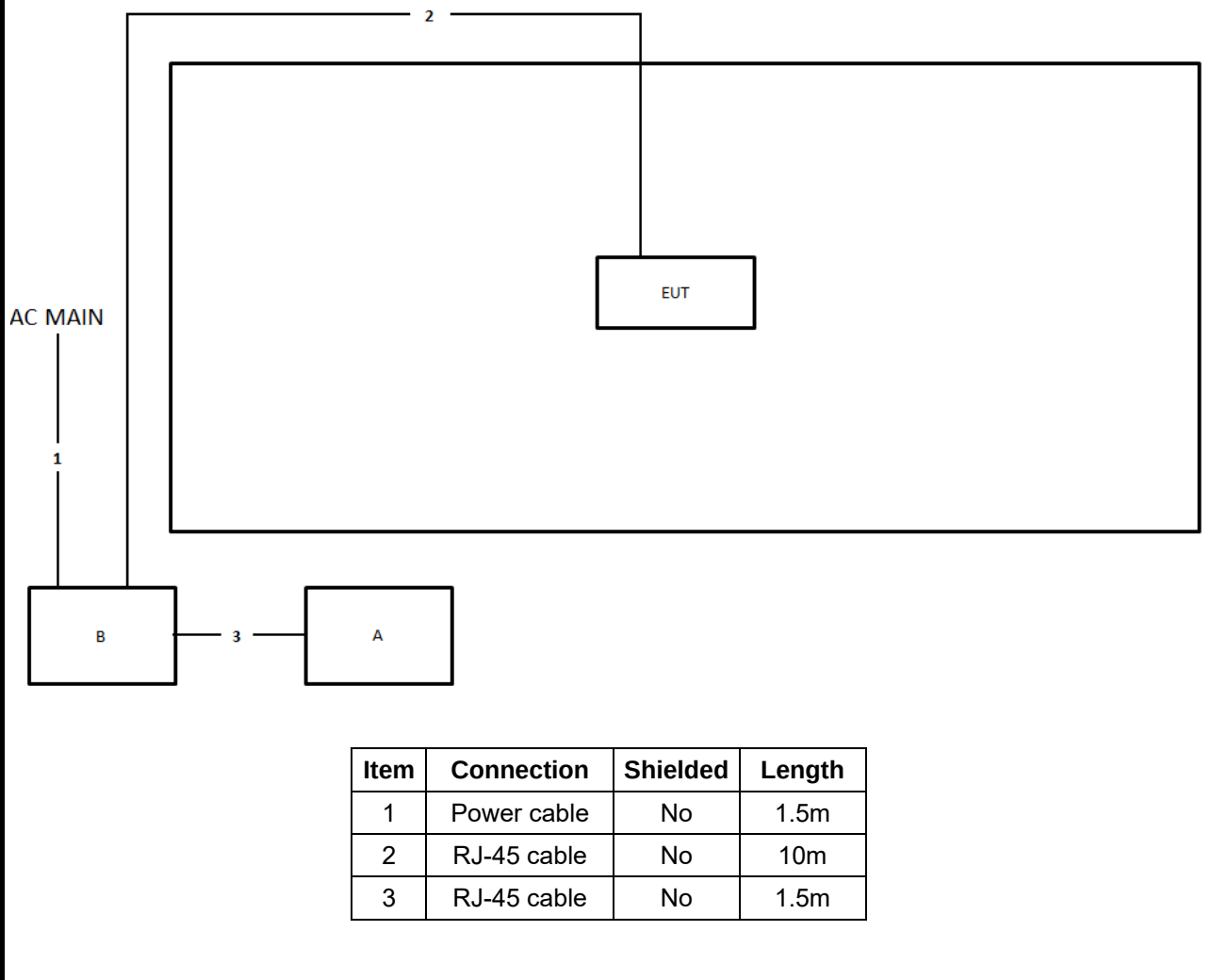
Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	Notebook	DELL	E4300	N/A
B	Notebook	DELL	E4300	N/A
C	WLAN AP	BCM	BCM943684MCH6_S_P206	N/A
D	PoE	Microsemi	PD-9001-10GC/AC	N/A

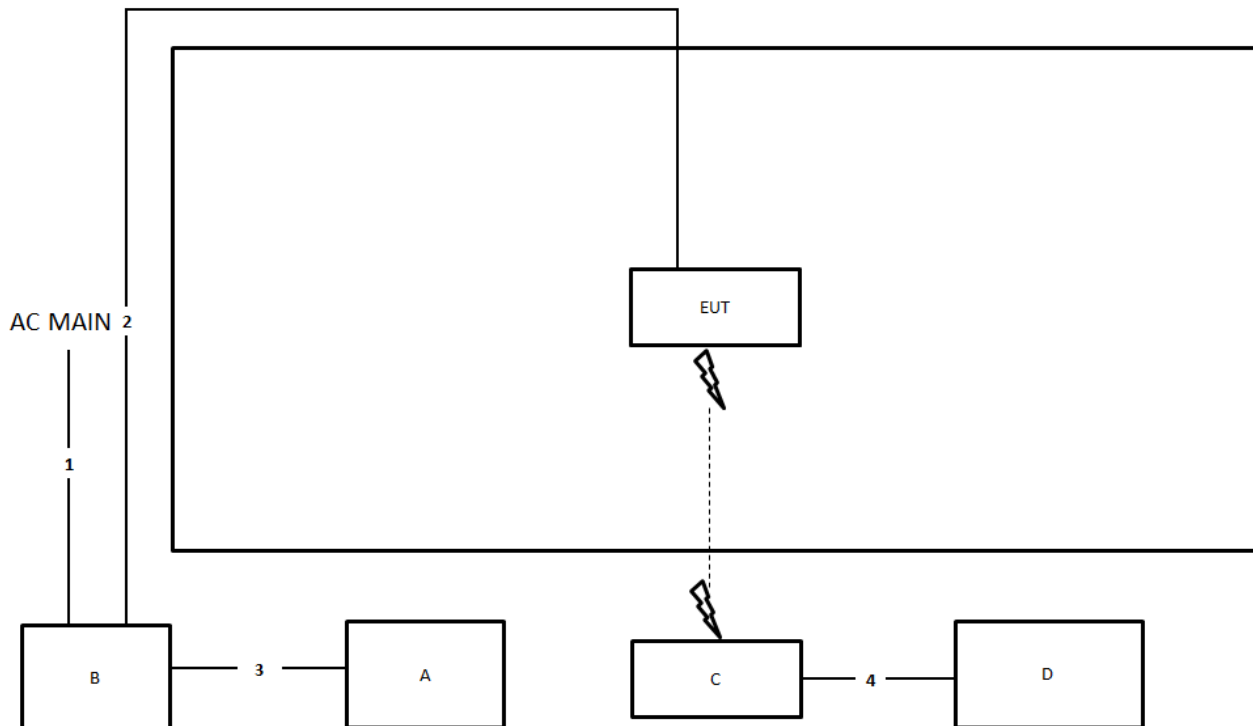
2.6 Test Setup Diagram



Test Setup Diagram - Radiated Test < 1GHz


Item	Connection	Shielded	Length
1	Power cable	No	1.5m
2	RJ-45 cable	No	1.5m
3	RJ-45 cable	No	10m
4	RJ-45 cable	No	10m
5	USB cable	Yes	0.5m

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


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


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



3 Transmitter Test Result

3.1 AC Power-line Conducted Emissions

3.1.1 AC Power-line Conducted Emissions Limit

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

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

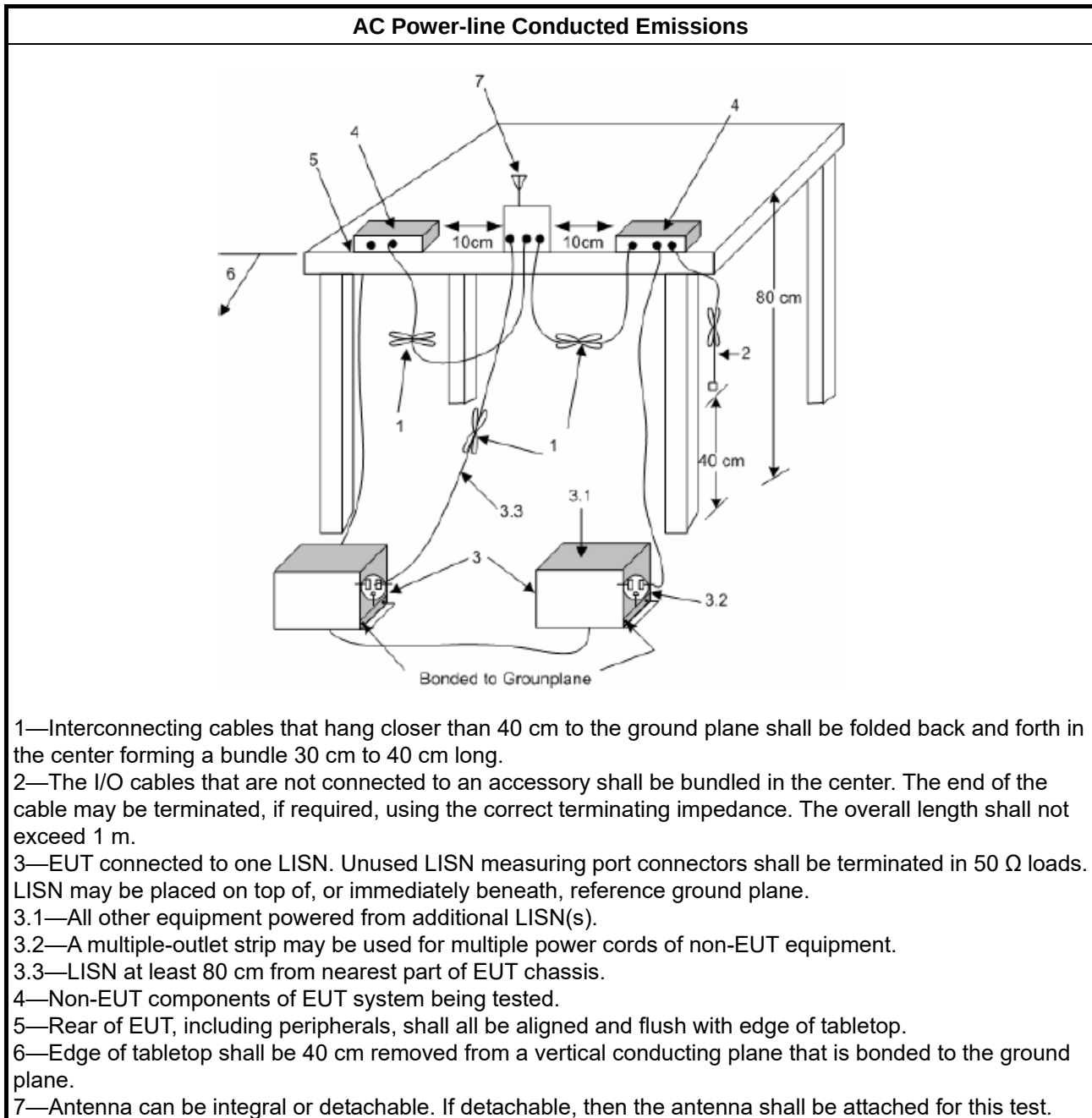
3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

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

3.1.4 Test Setup



3.1.5 Measurement Results Calculation

The measured Level is calculated using:

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

3.1.6 Test Result of AC Power-line Conducted Emissions

Refer as Appendix A

3.2 Emission Bandwidth

3.2.1 Emission Bandwidth Limit

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

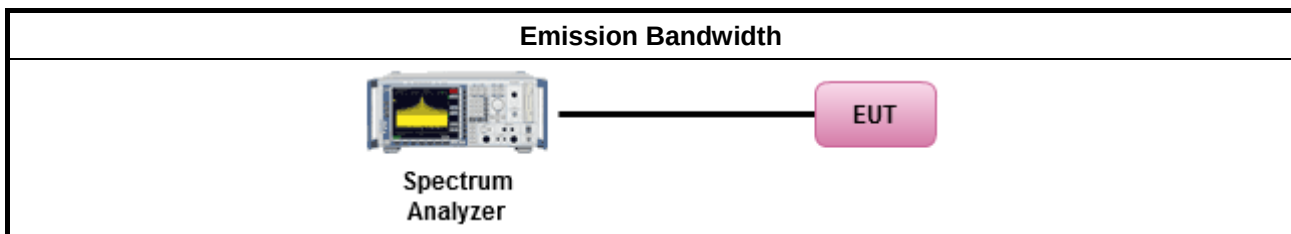
3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

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

3.2.4 Test Setup



3.2.5 Test Result of Emission Bandwidth

Refer as Appendix B

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

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

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



3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

Test Method	
According to FCC KDB 987594 D02 clause II.E, the test measurement procedure shall refer to KDB 789033.	
☐	Average over on/off periods with duty factor
	☒ Refer as FCC KDB 789033, clause E Method SA-2 (spectral trace averaging).
	☒ Refer as FCC KDB 789033, clause E Method SA-2 Alt. (RMS detection with slow sweep speed)
	Wideband RF power meter and average over on/off periods with duty factor
☐	☐ Refer as FCC KDB 789033, clause E Method PM-G (using an RF average power meter).
☐ For conducted measurement.	
☐	If the EUT supports multiple transmit chains using options given below: Refer as FCC KDB 662911, In-band power measurements. Using the measure-and-sum approach, measured all transmit ports individually. Sum the power (in linear power units e.g., mW) of all ports for each individual sample and save them.
	If multiple transmit chains, EIRP calculation could be following as methods: $P_{total} = P_1 + P_2 + \dots + P_n$ (calculated in linear unit [mW] and transfer to log unit [dBm]) $EIRP_{total} = P_{total} + DG$
☒ For radiated measurement.	
☐	Refer as FCC KDB 987594 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 Power EIRP was measured using radiated methods.

**For EIRP****Note :**

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

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

EIRP Formula :

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

where;

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

LP : Free Space Loss(dB)

PR Formula :

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

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 :

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

where;

F(MHz) : EUT center frequency

D(m) : Measurement distance

Example.

Test mode 802.11ax HE20 1T1S 5955MHz EIRP measurement.

PR Formula :

$$\text{PR(dBm)} = -34 - 10.68 + 5 = -39.68$$

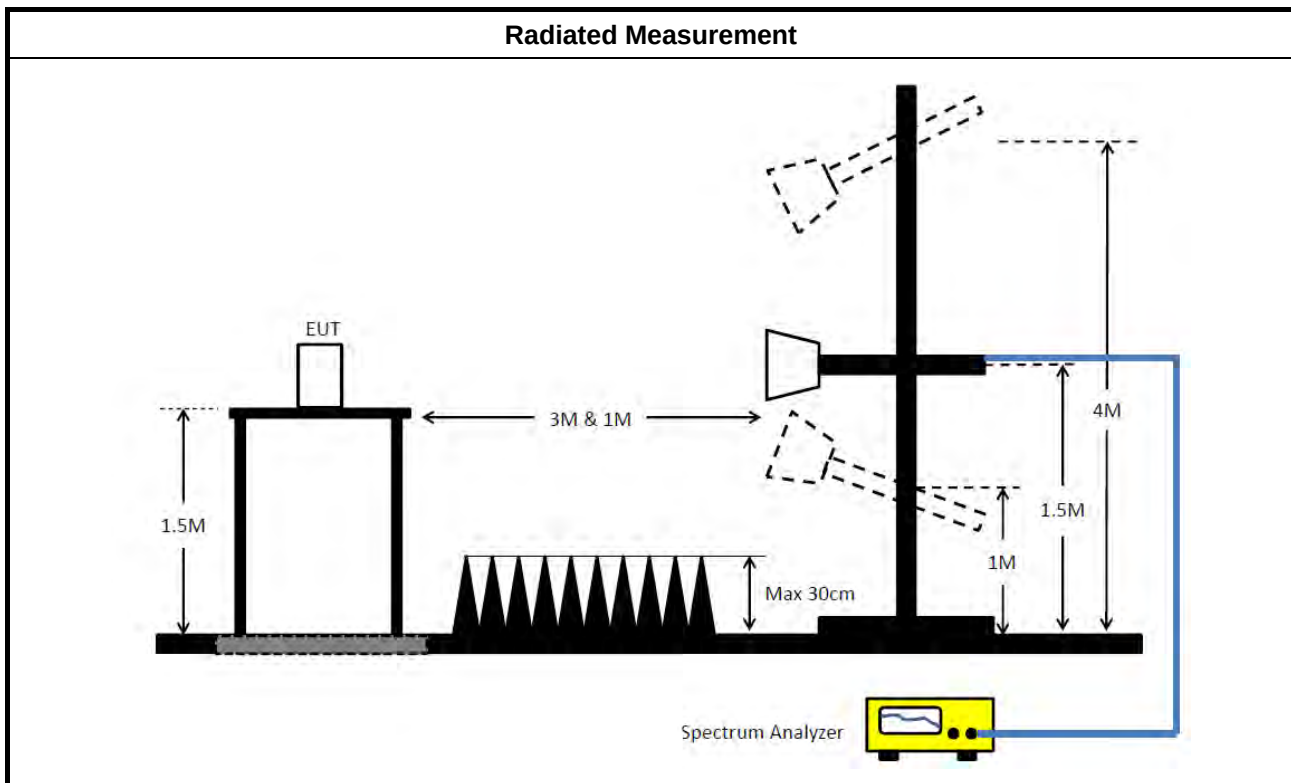
LP(FSL factor) Formula :

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

EIRP Formula :

$$\text{EIRP(dBm)} = -39.68 + 57.54 = 17.86$$

3.3.4 Test Setup



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

Refer as Appendix C

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

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

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

3.4.2 Measuring Instruments

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

**3.4.3 Test Procedures**

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

**For EIRP PSD****Note :**

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

The EIRP PSD caculation refer to "KDB 412172 D01 Detemining 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

Example.

Test mode 802.11ax HE20(1T1S) 5955MHz EIRP PSD measurement.

PR Formula :

$$\text{PR(dBm/MHz)} = -46.98 - 10.68 + 5 = -52.66$$

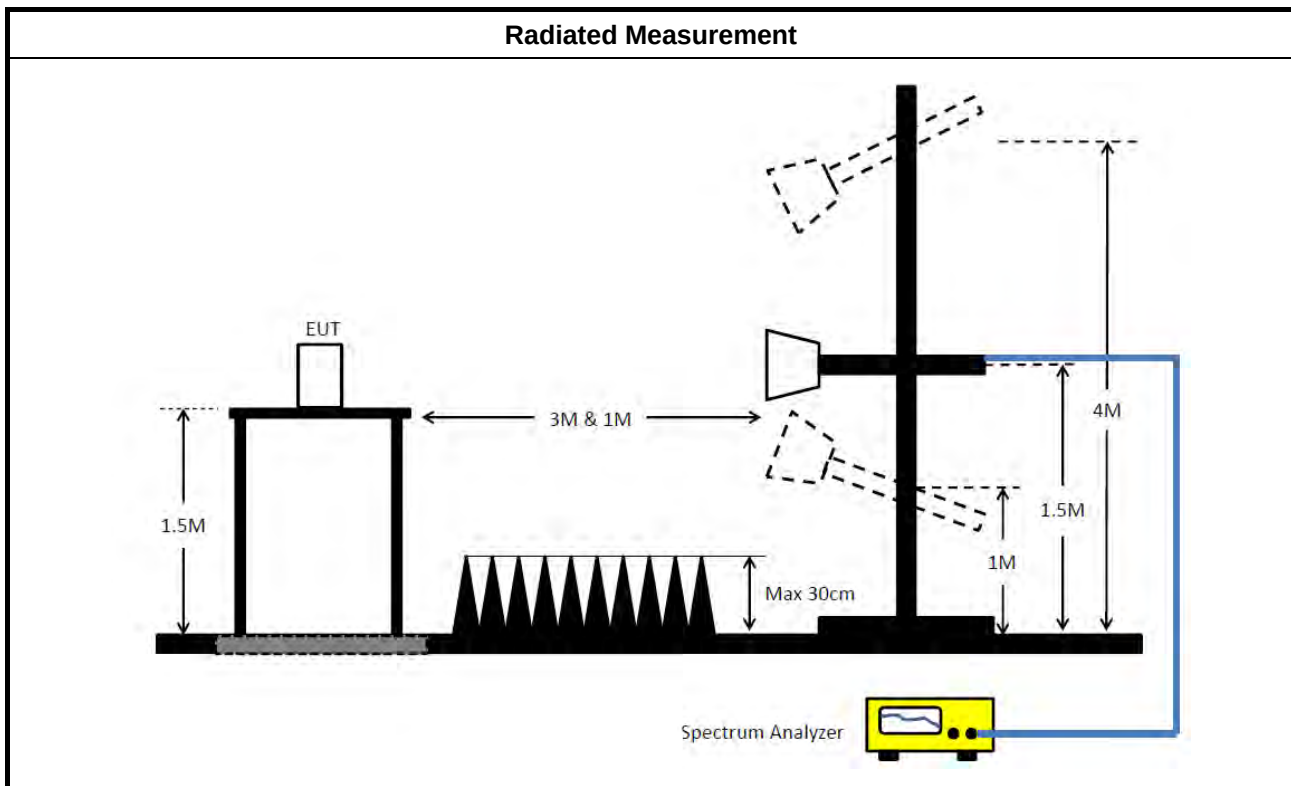
LP(FSL factor) Formula :

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

EIRP PSD Formula :

$$\text{EIRP PSD(dBm/MHz)} = -52.66 + 57.54 = 4.88$$

3.4.4 Test Setup



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

Refer as Appendix D

3.5 Unwanted Emissions

3.5.1 Transmitter Unwanted Emissions Limit

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

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

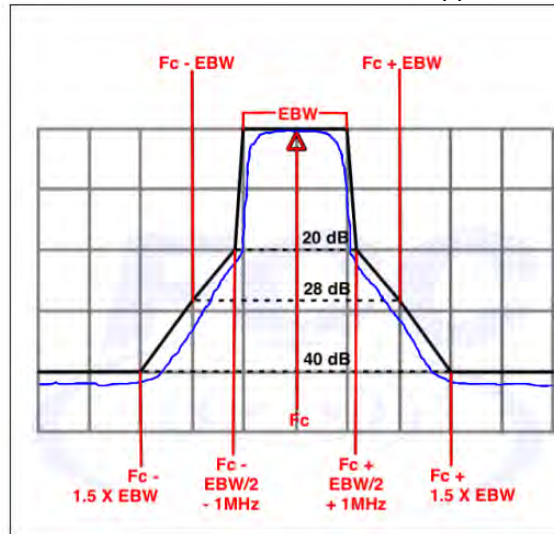
Note 2: Test distance for frequencies at below 30 MHz, measurements may be performed at a distance closer than the EUT limit distance; however, an attempt should be made to avoid making measurements in the near field. When performing measurements below 30 MHz at a closer distance than the limit distance,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

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

Un-restricted band emissions above 1GHz Limit	
Frequency	Limit
Any outside the 5.945 – 7.125 GHz emission	e.i.r.p. -27 dBm [68.2 dBuV/m@3m] Note 1: Using the distance of 1m during the test for above 18 GHz, and the test value to correct for the distance factor at 3m($20 \times \log(\text{standard distance}/\text{test distance}) = 20\log(3/1) = 9.54\text{dB}$). EX. Above 18GHz emission limit calculation (3m to 1m) = $68.2\text{dBuV/m at 3m} + 9.54\text{dB} = 77.74\text{dBuV/m at 1m}$. Note 2:-27 dBm EIRP OOBE is measured RMS which is a deviation from the current 15E rules for 5 GHz bands. In addition, 15.35(b) applies where the peak emissions must be limited to no more than 20 dB above the average limit.
Frequency	Emission MASK Limit

5.945 – 7.125 GHz

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





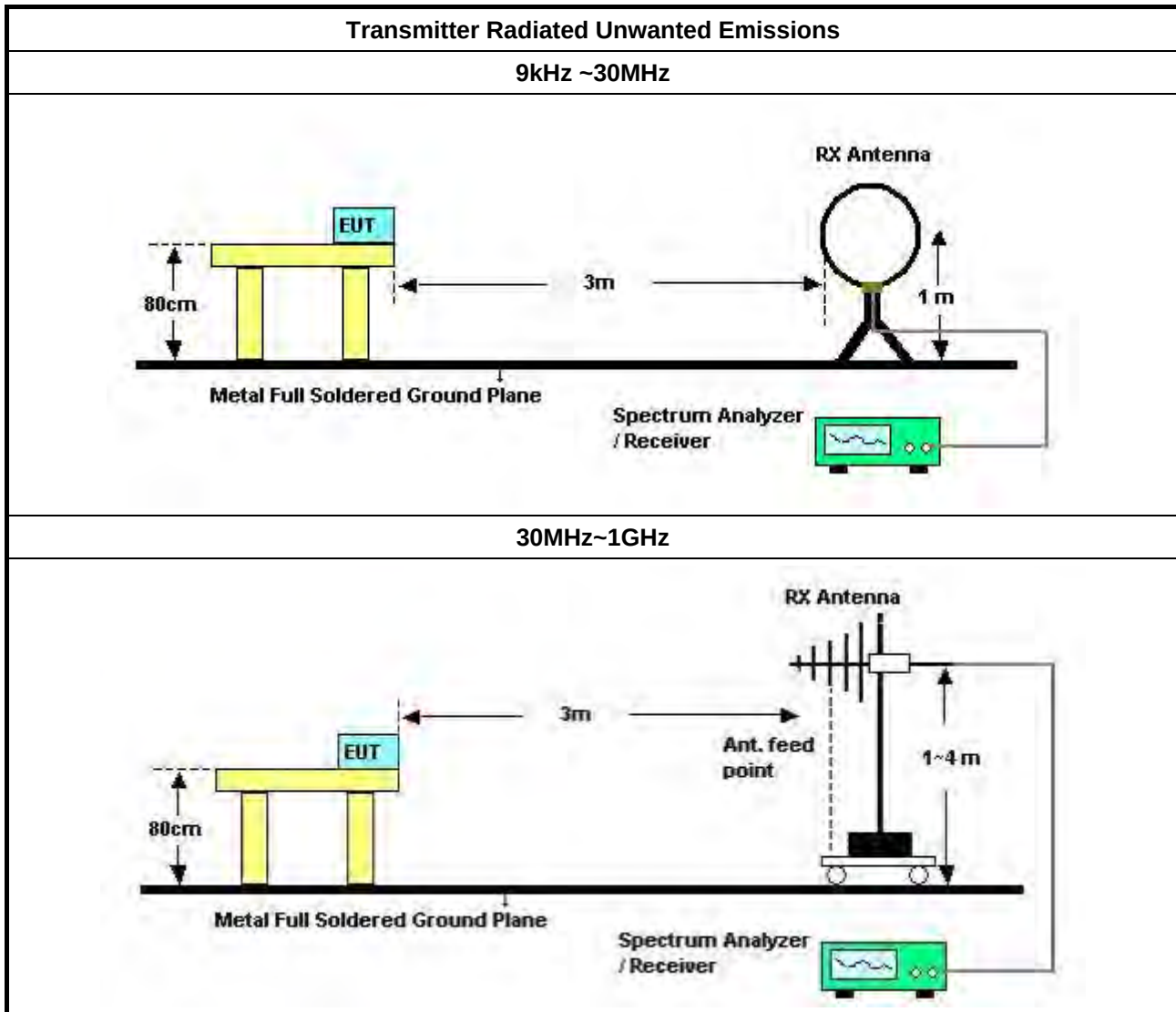
3.5.2 Measuring Instruments

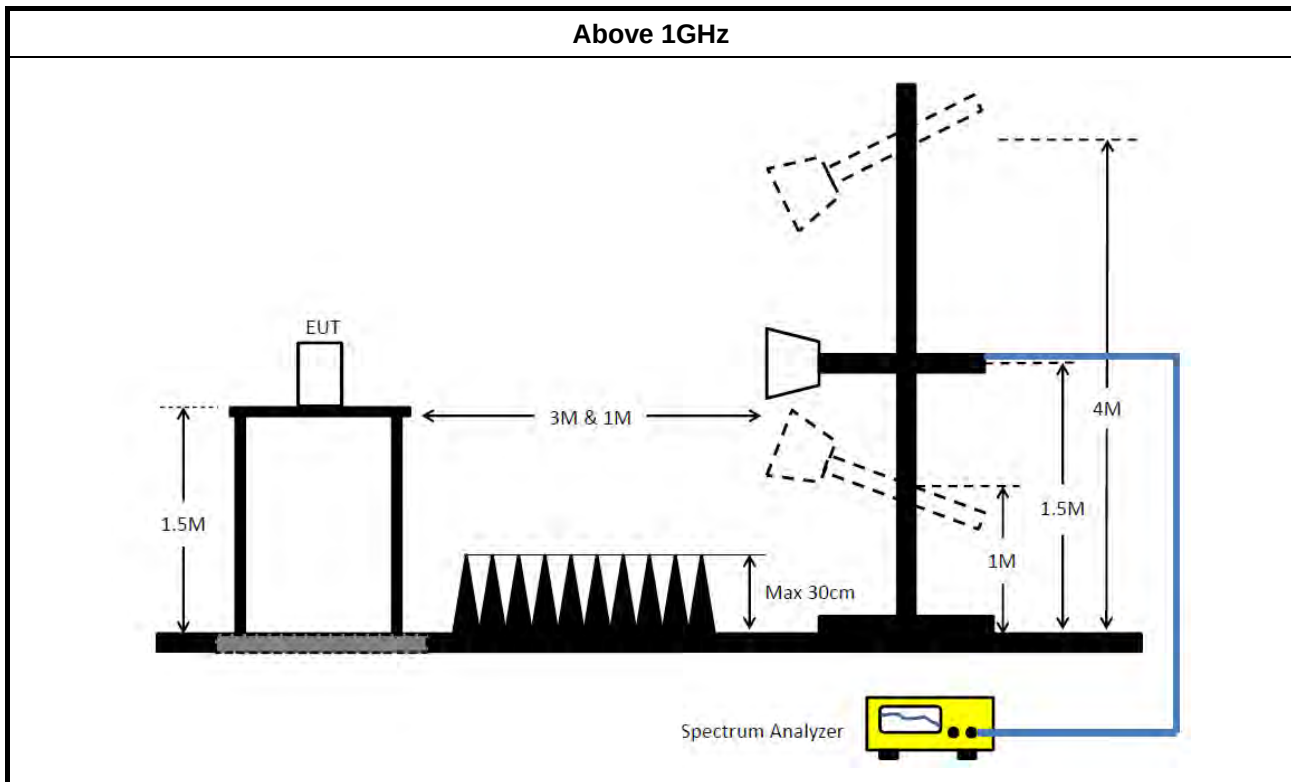
Refer a test equipment and calibration data table in this test report.

3.5.3 Test Procedures

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

3.5.4 Test Setup





3.5.5 Measurement Results Calculation

The measured Level is calculated using:

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

3.5.6 Transmitter Unwanted Emissions (Below 30MHz)

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

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

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

3.5.7 Test Result of Transmitter Unwanted Emissions

Refer as Appendix E

3.6 Contention Based Protocol

3.6.1 Contention Based Protocol Limit

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

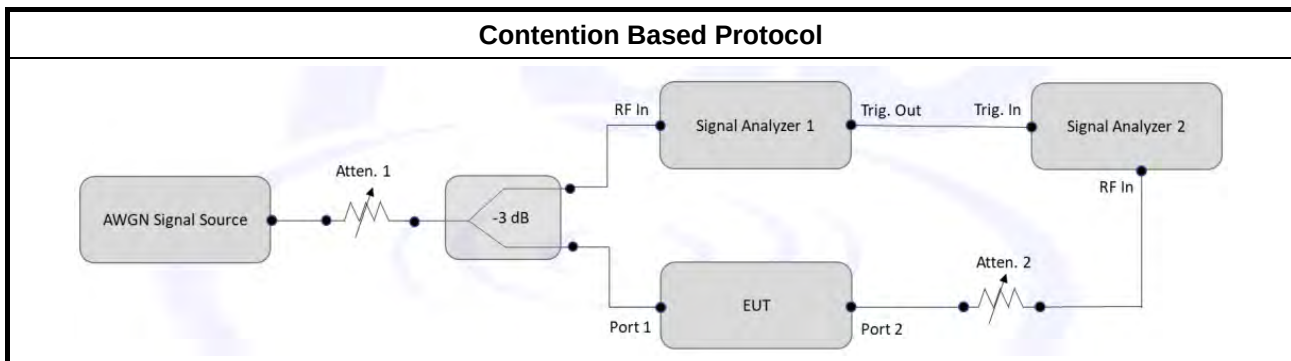
3.6.2 Measuring Instruments

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

3.6.3 Test Procedures

Test Method	
■	For Contention Based Protocol shall be measured using following options below:
☒	Refer as FCC 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
LISN	Schwarzbeck	NSLK 8127	8127650	9kHz ~ 30MHz	Jan. 07, 2022	Jan. 06, 2023	Conduction (CO02-CB)
LISN	Schwarzbeck	NSLK 8127	8127478	9kHz ~ 30MHz	Dec. 22, 2021	Dec. 21, 2022	Conduction (CO02-CB)
EMI Receiver	Agilent	N9038A	MY52260140	9kHz ~ 8.4GHz	May 06, 2022	May 05, 2023	Conduction (CO02-CB)
COND Cable	Woken	Cable	2	0.15MHz ~ 30MHz	Oct. 19, 2021	Oct. 18, 2022	Conduction (CO02-CB)
Pulse Limiter	Schwarzbeck	VTSD 9561F-N	00378	9kHz ~ 30MHz	Mar. 18, 2022	Mar. 17, 2023	Conduction (CO02-CB)
Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Conduction (CO02-CB)
Loop Antenna	Teseq	HLA 6120	24155	9kHz - 30 MHz	May 14, 2022	May 13, 2023	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 & EMC	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. 10, 2022	Jun. 09, 2023	Radiation (03CH03-CB)
EMI Test Receiver	R&S	ESCS	826547/017	9kHz ~ 2.75GHz	Jun. 17, 2022	Jun. 16, 2023	Radiation (03CH03-CB)
RF Cable-low	Woken	RG402	Low Cable-02+29	30MHz ~ 1GHz	Oct. 04, 2021	Oct. 03, 2022	Radiation (03CH03-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH03-CB)
3m Semi Anechoic Chamber VSWR	TDK	SAC-3M	03CH04-CB	1GHz ~18GHz 3m	Feb. 25, 2021	Feb. 24, 2022	Radiation (03CH04-CB)
Horn Antenna	ETS • Lindgren	3115	00143147	750MHz~18GHz	Oct. 23, 2020	Oct. 22, 2021	Radiation (03CH04-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Jul. 21, 2020	Jul. 20, 2021	Radiation (03CH04-CB)
Pre-Amplifier	Agilent	83017A	MY53270063	0.5GHz ~ 26.5GHz	Jul. 14, 2020	Jul. 13, 2021	Radiation (03CH04-CB)
Pre-Amplifier	Agilent	83017A	MY53270063	0.5GHz ~ 26.5GHz	Jul. 12, 2021	Jul. 11, 2022	Radiation (03CH04-CB)
Pre-Amplifier	Agilent	8449B	3008A02121	1GHz ~ 26.5GHz	May 20, 2021	May 19, 2022	Radiation (03CH04-CB)
Pre-Amplifier	MITEQ	TTA1840-35-H G	1864479	18GHz ~ 40GHz	Jul. 08, 2020	Jul. 07, 2021	Radiation (03CH04-CB)



Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
Amplifier	-	-	TF-130N-R1	18GHz ~ 40GHz	Jun.15, 2021	Jun. 14, 2022	Radiation (03CH04-CB)
Spectrum Analyzer	R&S	FSP40	100142	9kHz~40GHz	Feb. 19, 2021	Feb. 18, 2022	Radiation (03CH04-CB)
RF Cable-high	Woken	RG402	High Cable-21	1GHz - 18GHz	Oct. 05, 2020	Oct. 04, 2021	Radiation (03CH04-CB)
RF Cable-high	Woken	RG402	High Cable-21+67	1GHz - 18GHz	Nov. 05, 2020	Nov. 04, 2021	Radiation (03CH04-CB)
RF Cable-high	Woken	RG402	High Cable-40G#1	18GHz ~ 40 GHz	Jul. 16, 2020	Jul. 15, 2021	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. 16, 2020	Jul. 15, 2021	Radiation (03CH04-CB)
RF Cable-high	Woken	RG402	High Cable-40G#2	18GHz ~ 40 GHz	Jul. 15, 2021	Jul. 14, 2022	Radiation (03CH04-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH04-CB)
Spectrum analyzer	R&S	FSV40	101027	9kHz~40GHz	Jul. 27, 2020	Jul. 26, 2021	Conducted (TH02-CB)
Spectrum analyzer	R&S	FSV40	101027	9kHz~40GHz	Jul. 27, 2020	Jul. 26, 2021	Conducted (TH02-CB)
Power Sensor	Anritsu	MA2411B	1126203	300MHz~40GHz	Sep. 17, 2020	Sep. 16, 2021	Conducted (TH02-CB)
Power Sensor	Anritsu	MA2411B	1531343	300MHz~40GHz	Aug. 15, 2021	Aug. 14, 2022	Conducted (TH02-CB)
Power Meter	Anritsu	ML2495A	1210004	300MHz~40GHz	Sep. 17, 2020	Sep. 16, 2021	Conducted (TH02-CB)
Power Meter	Anritsu	ML2495A	1728001	300MHz~40GHz	Aug. 15, 2021	Aug. 14, 2022	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	High Cable-01	1 GHz – 18 GHz	Oct. 05, 2020	Oct. 04, 2021	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	High Cable-01	1 GHz – 18 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	High Cable-02	1 GHz – 18 GHz	Oct. 05, 2020	Oct. 04, 2021	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	High Cable-02	1 GHz – 18 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	High Cable-03	1 GHz – 18 GHz	Oct. 05, 2020	Oct. 04, 2021	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	High Cable-03	1 GHz – 18 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	High Cable-04	1 GHz – 18 GHz	Oct. 05, 2020	Oct. 04, 2021	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	High Cable-04	1 GHz – 18 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (TH02-CB)



Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
RF Cable-high	Woken	RG402	High Cable-05	1 GHz – 18 GHz	Oct. 05, 2020	Oct. 04, 2021	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	High Cable-05	1 GHz – 18 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (TH02-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Conducted (TH02-CB)
Spectrum Analyzer	R&S	FSV40	101025	9kHz ~ 40GHz	Nov. 06, 2020	Nov. 05, 2021	Conducted (DF02-CB)
Spectrum Analyzer	R&S	FSV40	101025	9kHz ~ 40GHz	Nov. 06, 2021	Nov. 05, 2022	Conducted (DF02-CB)
Vector Signal generator	R&S	SMU200A	105352	25MHz-6GHz	Dec. 07, 2020	Dec. 06, 2021	Conducted (DF02-CB)
Vector Signal generator	R&S	SMU200A	105352	25MHz-6GHz	Mar. 11, 2022	Mar. 10, 2023	Conducted (DF02-CB)
RF Power Divider	STI	2 Way	DV-2way -07	1GHz ~ 8GHz	Mar. 01, 2021	Feb. 28, 2022	Conducted (DF02-CB)
RF Power Divider	STI	2 Way	DV-2way -08	1GHz ~ 8GHz	Mar. 01, 2021	Feb. 28, 2022	Conducted (DF02-CB)
RF Power Divider	Woken	4 Way	DFS02-DV-02	1GHz ~ 6GHz	Oct. 05, 2020	Oct. 04, 2021	Conducted (DF02-CB)
RF Power Divider	Woken	4 Way	DFS02-DV-04	1GHz ~ 6GHz	Oct. 05, 2020	Oct. 04, 2021	Conducted (DF02-CB)
RF Power Divider	Woken	4 Way	DFS02-DV-05	1GHz ~ 6GHz	Oct. 05, 2020	Oct. 04, 2021	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. 05, 2020	Oct. 04, 2021	Conducted (DF02-CB)
RF Cable-high	Woken	RG402	High Cable-62	1 GHz – 18 GHz	Oct. 05, 2020	Oct. 04, 2021	Conducted (DF02-CB)
RF Cable-high	Woken	RG402	High Cable-63	1 GHz – 18 GHz	Oct. 05, 2020	Oct. 04, 2021	Conducted (DF02-CB)
RF Cable-high	Woken	RG402	High Cable-66	1 GHz – 18 GHz	Oct. 05, 2020	Oct. 04, 2021	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.



Conducted Emissions at Powerline

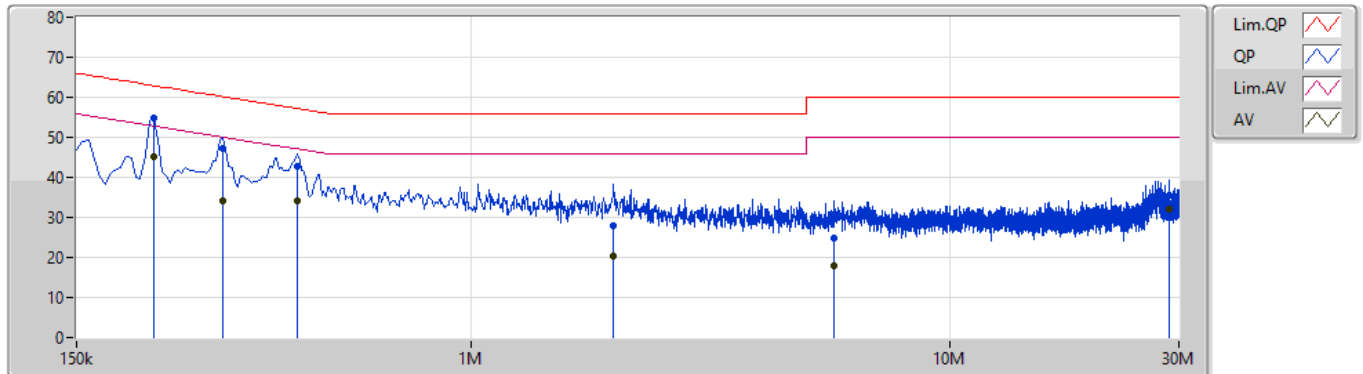
Appendix A

Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 3	Pass	QP	217.5k	55.22	62.92	-7.70	Neutral

Mode 3

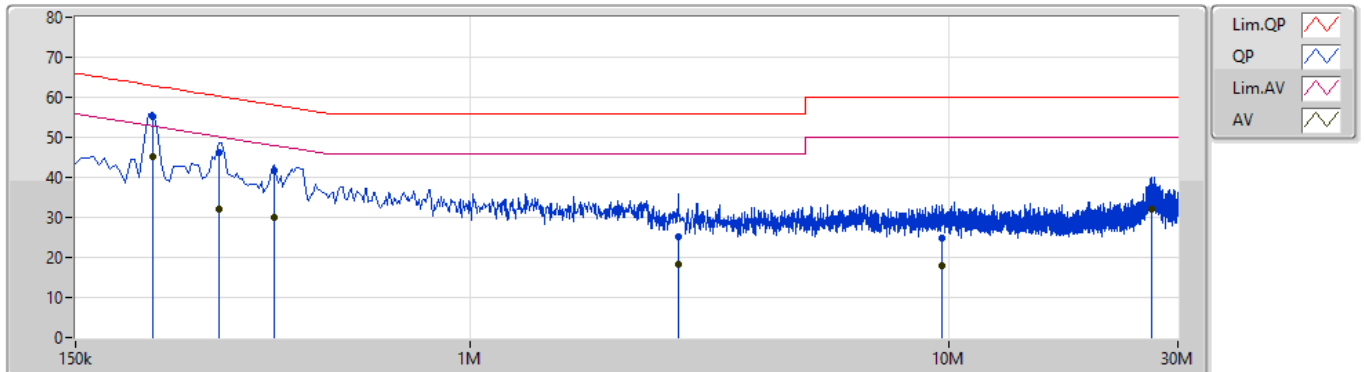
09/08/2022



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	217.5k	54.91	62.92	-8.01	9.99	Line	-	44.92	0.06	0.04	9.89			
AV	217.5k	45.19	52.92	-7.73	9.99	Line	"Worst"	35.20	0.06	0.04	9.89			
QP	303k	47.09	60.17	-13.08	10.00	Line	-	37.09	0.06	0.05	9.89			
AV	303k	34.09	50.17	-16.08	10.00	Line	-	24.09	0.06	0.05	9.89			
QP	433.5k	42.82	57.19	-14.37	10.01	Line	-	32.81	0.06	0.06	9.89			
AV	433.5k	34.25	47.19	-12.94	10.01	Line	-	24.24	0.06	0.06	9.89			
QP	1.982M	28.10	56.00	-27.90	10.07	Line	-	18.03	0.09	0.09	9.89			
AV	1.982M	20.35	46.00	-25.65	10.07	Line	-	10.28	0.09	0.09	9.89			
QP	5.712M	24.88	60.00	-35.12	10.18	Line	-	14.70	0.16	0.12	9.90			
AV	5.712M	17.85	50.00	-32.15	10.18	Line	-	7.67	0.16	0.12	9.90			
QP	28.689M	35.52	60.00	-24.48	10.73	Line	-	24.79	0.39	0.33	10.01			
AV	28.689M	31.95	50.00	-18.05	10.73	Line	-	21.22	0.39	0.33	10.01			

Mode 3

09/08/2022



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	217.5k	55.22	62.92	-7.70	10.00	Neutral	"Worst"	45.22	0.07	0.04	9.89			
AV	217.5k	45.07	52.92	-7.85	10.00	Neutral	-	35.07	0.07	0.04	9.89			
QP	298.5k	46.11	60.28	-14.17	10.01	Neutral	-	36.10	0.07	0.05	9.89			
AV	298.5k	31.90	50.28	-18.38	10.01	Neutral	-	21.89	0.07	0.05	9.89			
QP	388.5k	41.76	58.10	-16.34	10.02	Neutral	-	31.74	0.07	0.06	9.89			
AV	388.5k	30.13	48.10	-17.97	10.02	Neutral	-	20.11	0.07	0.06	9.89			
QP	2.72M	25.13	56.00	-30.87	10.09	Neutral	-	15.04	0.11	0.09	9.89			
AV	2.72M	18.13	46.00	-27.87	10.09	Neutral	-	8.04	0.11	0.09	9.89			
QP	9.65M	24.97	60.00	-35.03	10.31	Neutral	-	14.66	0.24	0.16	9.91			
AV	9.65M	17.98	50.00	-32.02	10.31	Neutral	-	7.67	0.24	0.16	9.91			
QP	26.484M	37.49	60.00	-22.51	10.60	Neutral	-	26.89	0.31	0.30	9.99			
AV	26.484M	31.91	50.00	-18.09	10.60	Neutral	-	21.31	0.31	0.30	9.99			

For Scanning radio 3 / 1T1S

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	21.69M	19.01M	19M0D1D	21.6M	19.01M
802.11ax HEW40_Nss1,(MCS0)_1TX	62.22M	38.021M	38M0D1D	40.14M	37.721M
802.11ax HEW80_Nss1,(MCS0)_1TX	195.96M	120.3M	120MD1D	81.48M	77.601M
802.11ax HEW160_Nss1,(MCS0)_1TX	447.36M	299.85M	300MD1D	266.64M	156.882M
6.425-6.525GHz	-	-	-	-	-
802.11ax HEW20_Nss1,(MCS0)_1TX	21.66M	19.01M	19M0D1D	21.63M	18.981M
802.11ax HEW40_Nss1,(MCS0)_1TX	40.2M	37.721M	37M7D1D	40.08M	37.721M
802.11ax HEW80_Nss1,(MCS0)_1TX	81.36M	77.481M	77M5D1D	81.24M	77.481M
802.11ax HEW160_Nss1,(MCS0)_1TX	272.64M	156.402M	156MD1D	272.64M	156.402M
6.525-6.875GHz	-	-	-	-	-
802.11ax HEW20_Nss1,(MCS0)_1TX	21.72M	19.01M	19M0D1D	21.6M	19.01M
802.11ax HEW40_Nss1,(MCS0)_1TX	71.34M	38.201M	38M2D1D	40.02M	37.721M
802.11ax HEW80_Nss1,(MCS0)_1TX	174.84M	100.03M	100MD1D	81.24M	77.361M
802.11ax HEW160_Nss1,(MCS0)_1TX	374.4M	234.603M	235MD1D	315.12M	160.48M
6.875-7.125GHz	-	-	-	-	-
802.11ax HEW20_Nss1,(MCS0)_1TX	21.72M	19.07M	19M1D1D	21.48M	18.951M
802.11ax HEW40_Nss1,(MCS0)_1TX	41.76M	37.961M	38M0D1D	40.14M	37.781M
802.11ax HEW80_Nss1,(MCS0)_1TX	176.28M	98.351M	98M4D1D	142.08M	79.64M
802.11ax HEW160_Nss1,(MCS0)_1TX	248.16M	156.162M	156MD1D	248.16M	156.162M

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

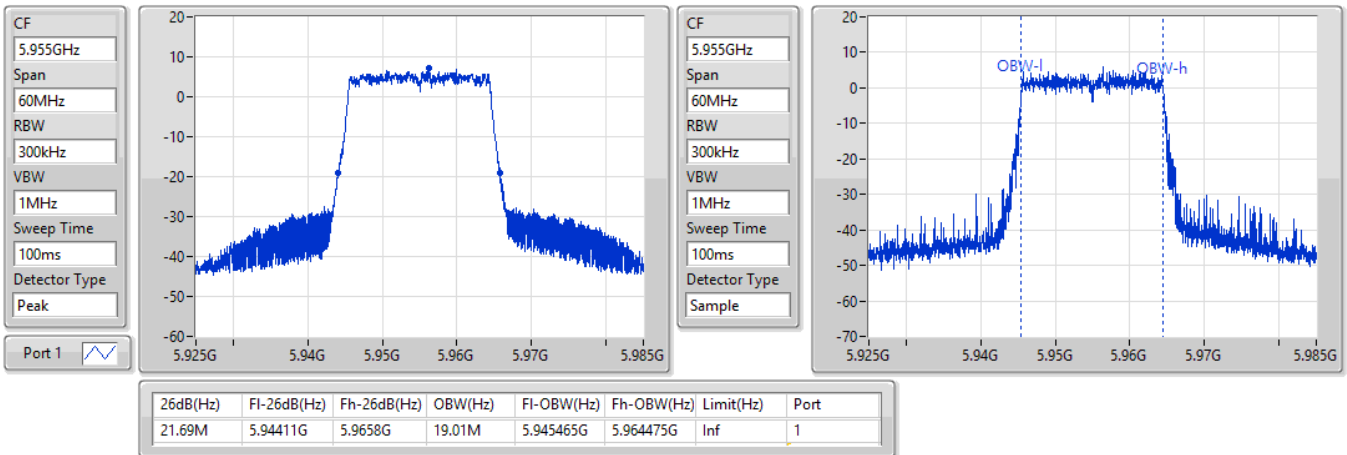
Result

Mode	Result	Port 1-N dB (Hz)	Port 1-OBW (Hz)
802.11ax HEW20_Nss1,(MCS0)_1TX	-	-	-
5955MHz	Pass	21.69M	19.01M
6175MHz	Pass	21.69M	19.01M
6415MHz	Pass	21.6M	19.01M
6435MHz	Pass	21.63M	19.01M
6475MHz	Pass	21.66M	19.01M
6515MHz	Pass	21.63M	18.981M
6535MHz	Pass	21.6M	19.01M
6695MHz	Pass	21.72M	19.01M
6855MHz	Pass	21.66M	19.01M
6875MHz Straddle 6.525-6.875GHz	Pass	21.69M	19.01M
6895MHz	Pass	21.48M	19.01M
6995MHz	Pass	21.72M	18.951M
7095MHz	Pass	21.57M	19.07M
802.11ax HEW40_Nss1,(MCS0)_1TX	-	-	-
5965MHz	Pass	40.14M	37.721M
6165MHz	Pass	62.22M	38.021M
6405MHz	Pass	40.14M	37.721M
6445MHz	Pass	40.14M	37.721M
6485MHz	Pass	40.08M	37.721M
6525MHz Straddle 6.425-6.525GHz	Pass	40.2M	37.721M
6565MHz	Pass	40.08M	37.721M
6685MHz	Pass	40.02M	37.781M
6845MHz	Pass	43.2M	37.961M
6885MHz Straddle 6.525-6.875GHz	Pass	71.34M	38.201M
6925MHz	Pass	41.76M	37.961M
7005MHz	Pass	40.86M	37.841M
7085MHz	Pass	40.14M	37.781M
802.11ax HEW80_Nss1,(MCS0)_1TX	-	-	-
5985MHz	Pass	115.2M	77.841M
6145MHz	Pass	195.96M	120.3M
6385MHz	Pass	81.48M	77.601M
6465MHz	Pass	81.24M	77.481M
6545MHz Straddle 6.425-6.525GHz	Pass	81.36M	77.481M
6625MHz	Pass	81.24M	77.361M
6705MHz	Pass	87.6M	77.601M
6785MHz	Pass	144.24M	78.441M
6865MHz Straddle 6.525-6.875GHz	Pass	174.84M	100.03M
6945MHz	Pass	176.28M	98.351M
7025MHz	Pass	142.08M	79.64M
802.11ax HEW160_Nss1,(MCS0)_1TX	-	-	-
6025MHz	Pass	266.64M	156.882M
6185MHz	Pass	447.36M	299.85M
6345MHz	Pass	314.88M	158.081M
6505MHz Straddle 6.425-6.525GHz	Pass	272.64M	156.402M
6665MHz	Pass	315.12M	160.48M
6825MHz Straddle 6.525-6.875GHz	Pass	374.4M	234.603M
6985MHz	Pass	248.16M	156.162M

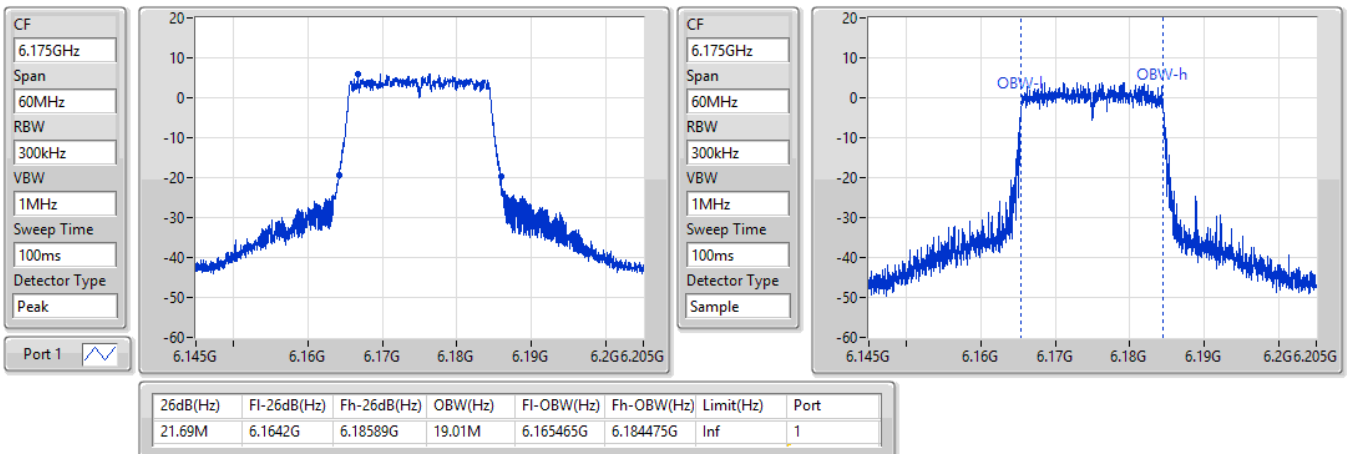
Port X-N dB = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band
Port X-OBW = Port X 99% occupied bandwidth

802.11ax HEW20_Nss1,(MCS0)_1TX
EBW
5955MHz

16/06/2021

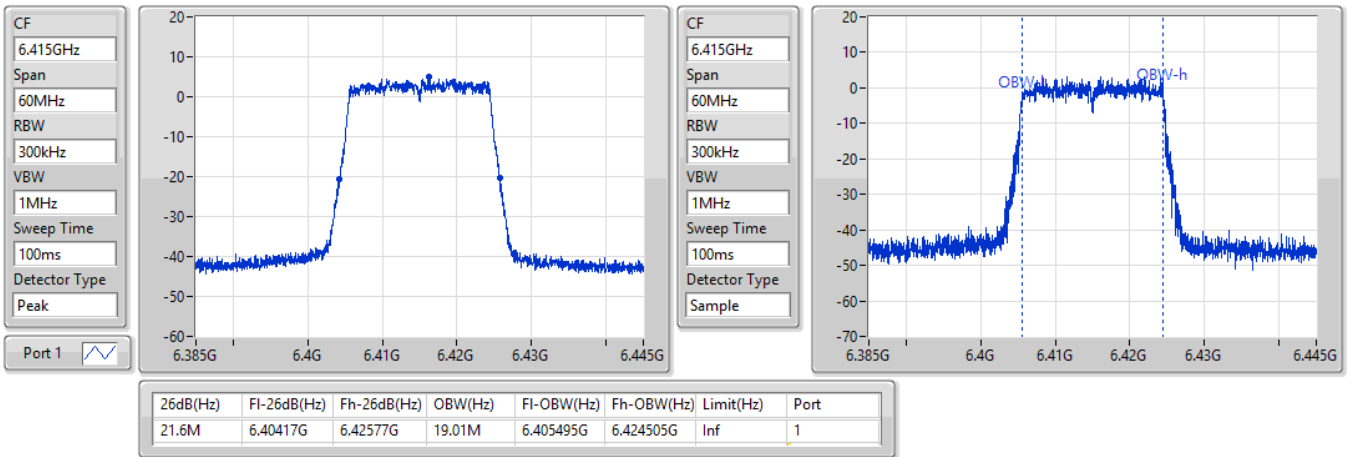

802.11ax HEW20_Nss1,(MCS0)_1TX
EBW
6175MHz

16/06/2021

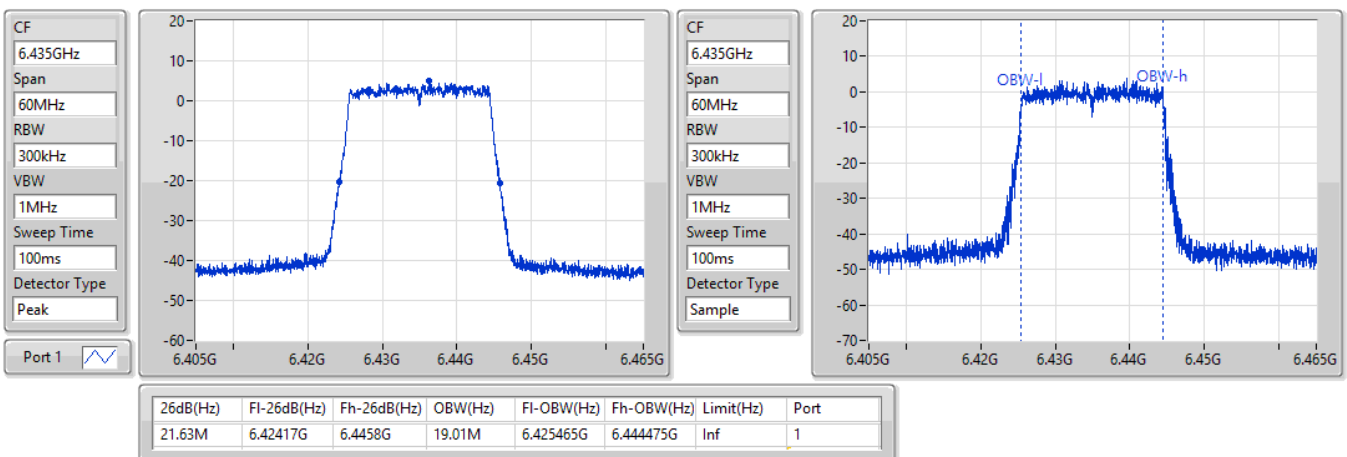


802.11ax HEW20_Nss1,(MCS0)_1TX
EBW
6415MHz

16/06/2021

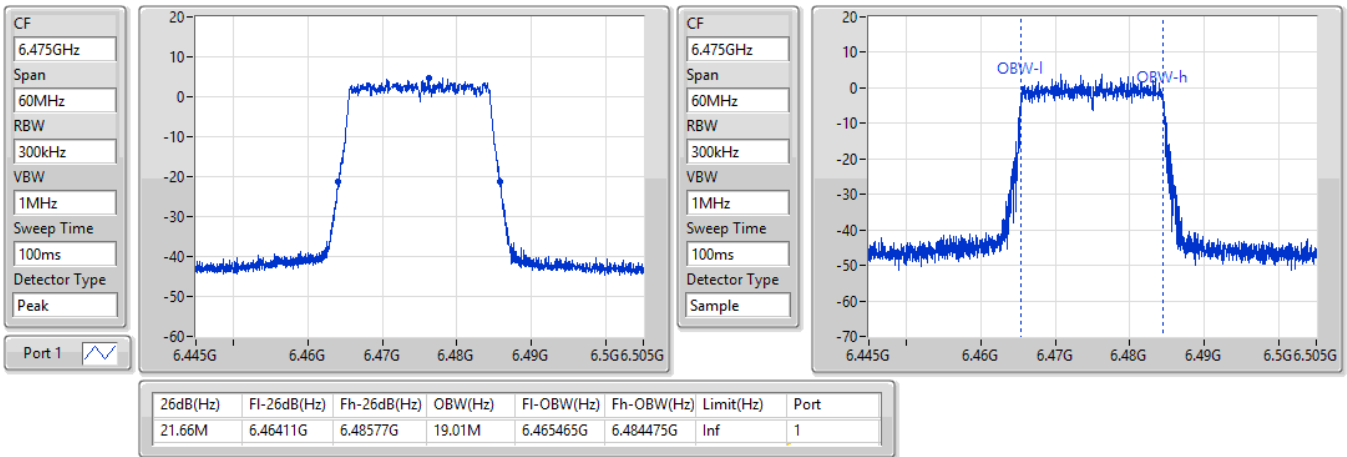

802.11ax HEW20_Nss1,(MCS0)_1TX
EBW
6435MHz

16/06/2021

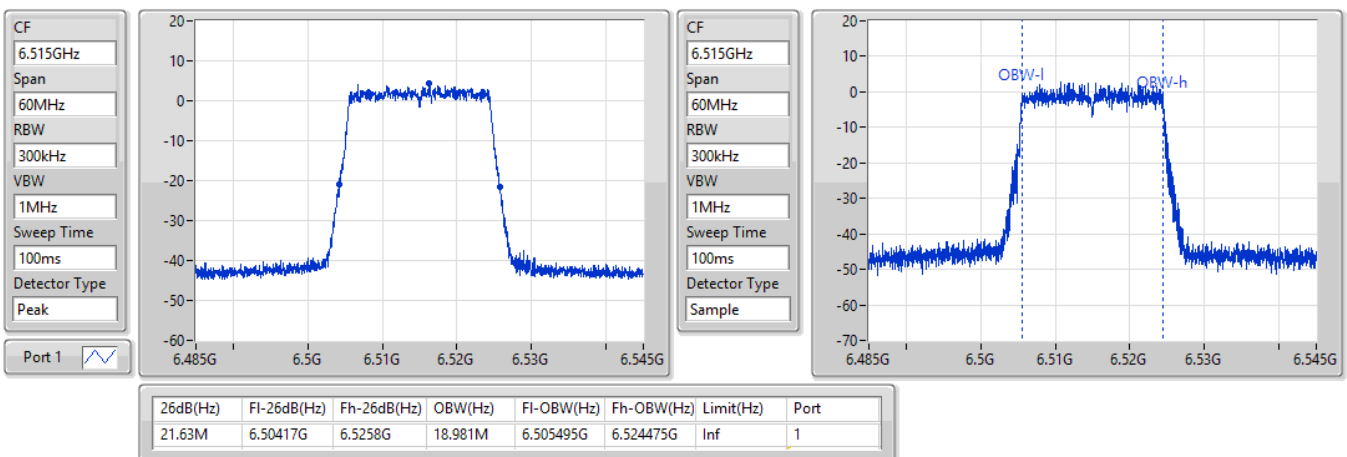


802.11ax HEW20_Nss1,(MCS0)_1TX
EBW
6475MHz

16/06/2021

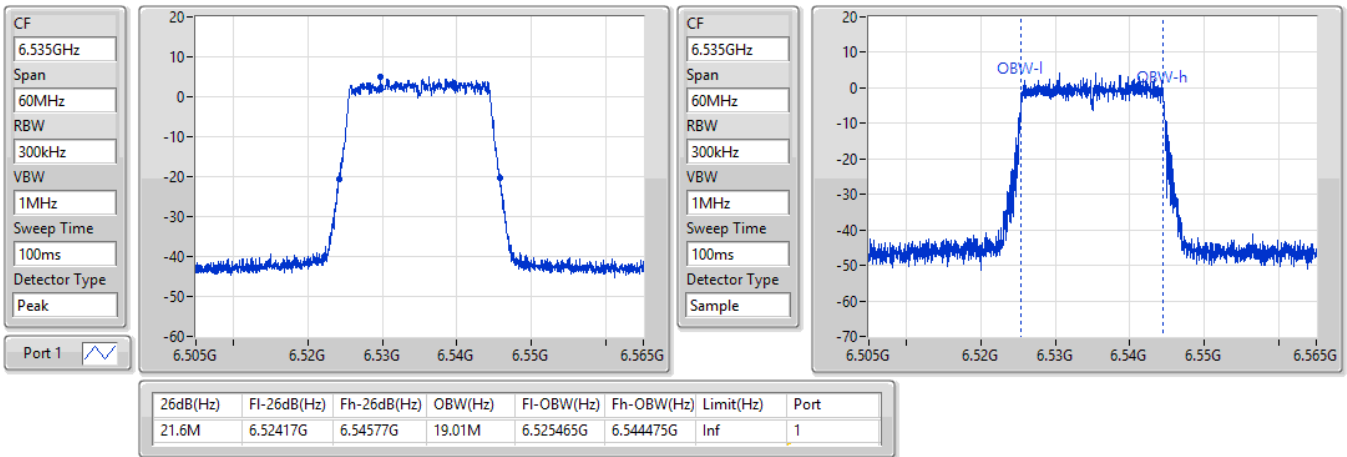

802.11ax HEW20_Nss1,(MCS0)_1TX
EBW
6515MHz

16/06/2021

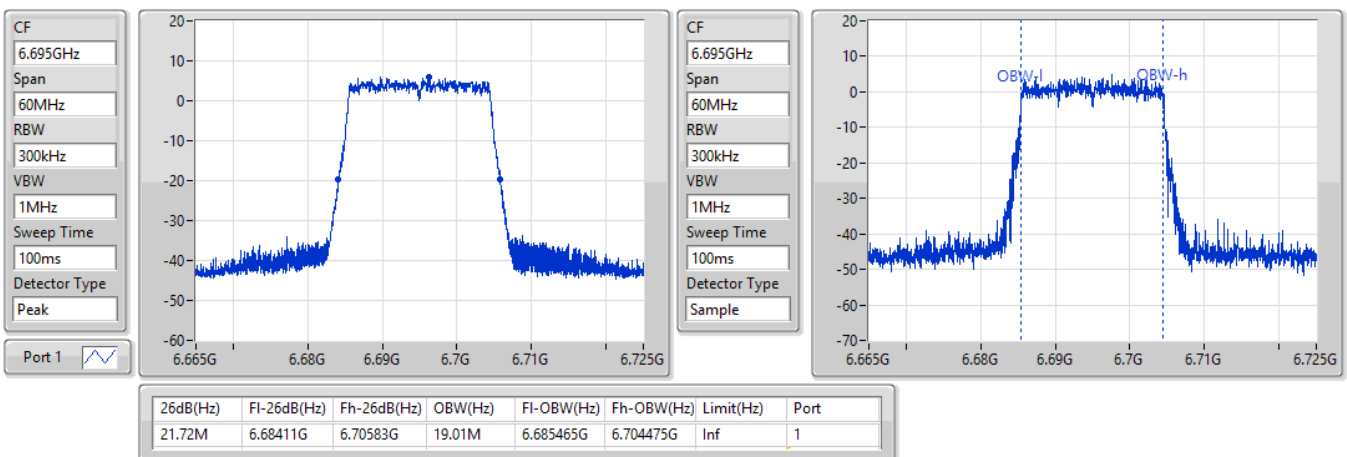


802.11ax HEW20_Nss1,(MCS0)_1TX
EBW
6535MHz

16/06/2021


802.11ax HEW20_Nss1,(MCS0)_1TX
EBW
6695MHz

16/06/2021

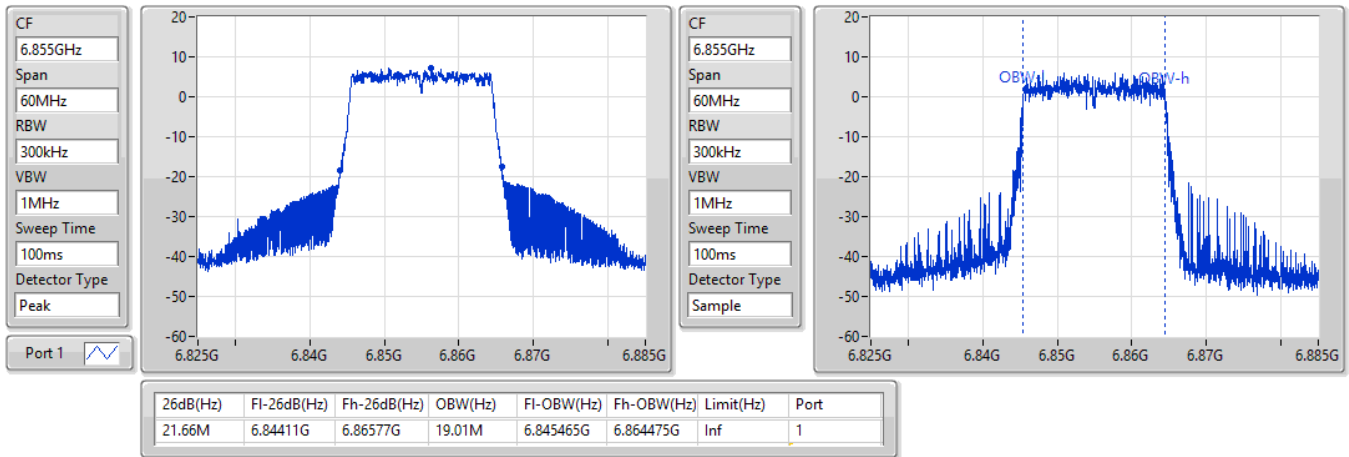


802.11ax HEW20_Nss1,(MCS0)_1TX

EBW

6855MHz

16/06/2021

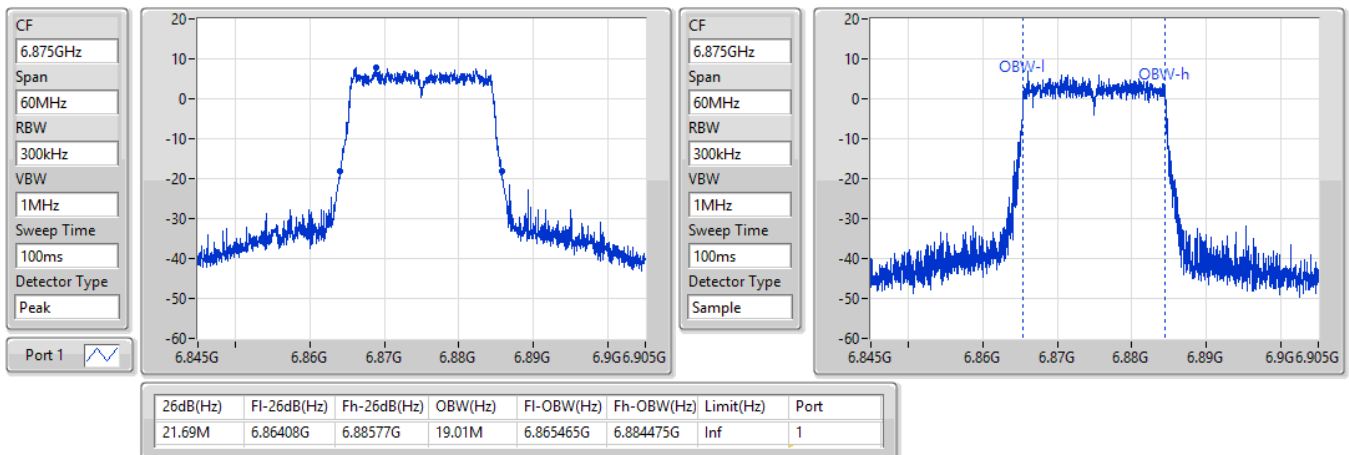


802.11ax HEW20_Nss1,(MCS0)_1TX

EBW

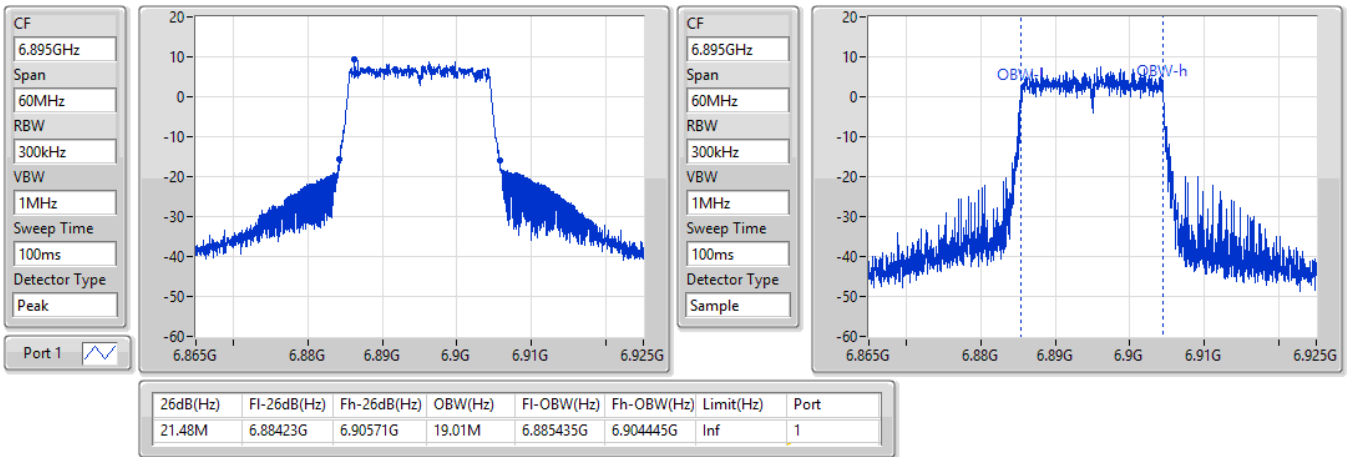
6875MHz Straddle 6.525-6.875GHz

17/06/2021

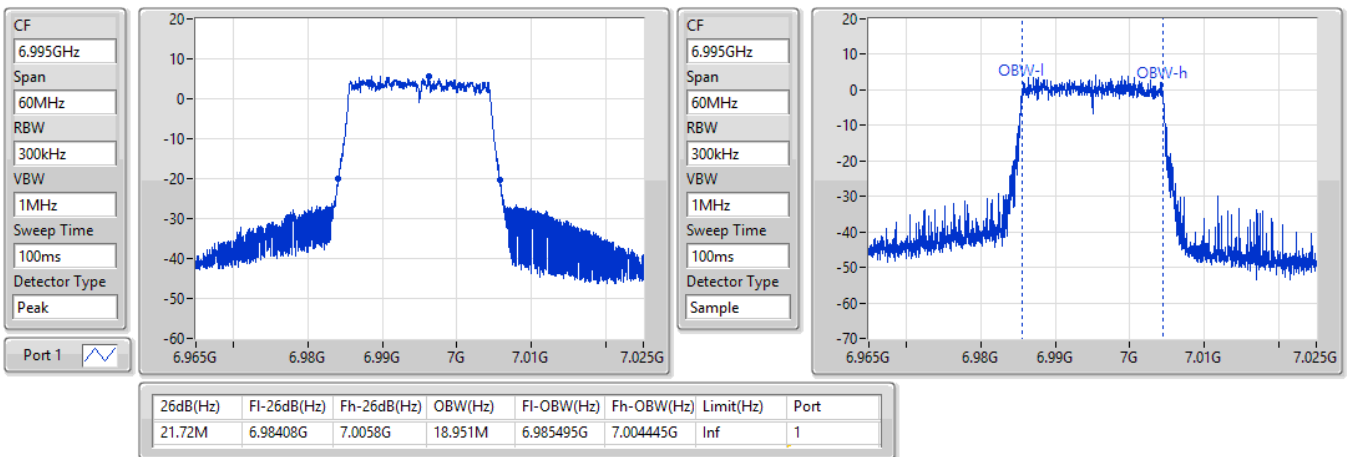


802.11ax HEW20_Nss1,(MCS0)_1TX
EBW
6895MHz

16/06/2021


802.11ax HEW20_Nss1,(MCS0)_1TX
EBW
6995MHz

16/06/2021

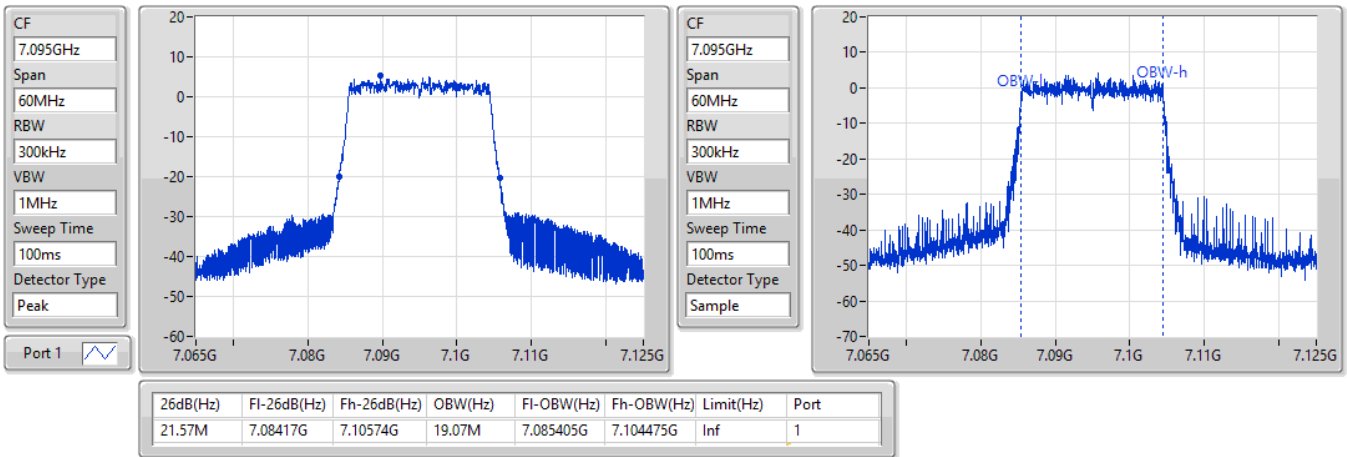


802.11ax HEW20_Nss1,(MCS0)_1TX

EBW

7095MHz

16/06/2021

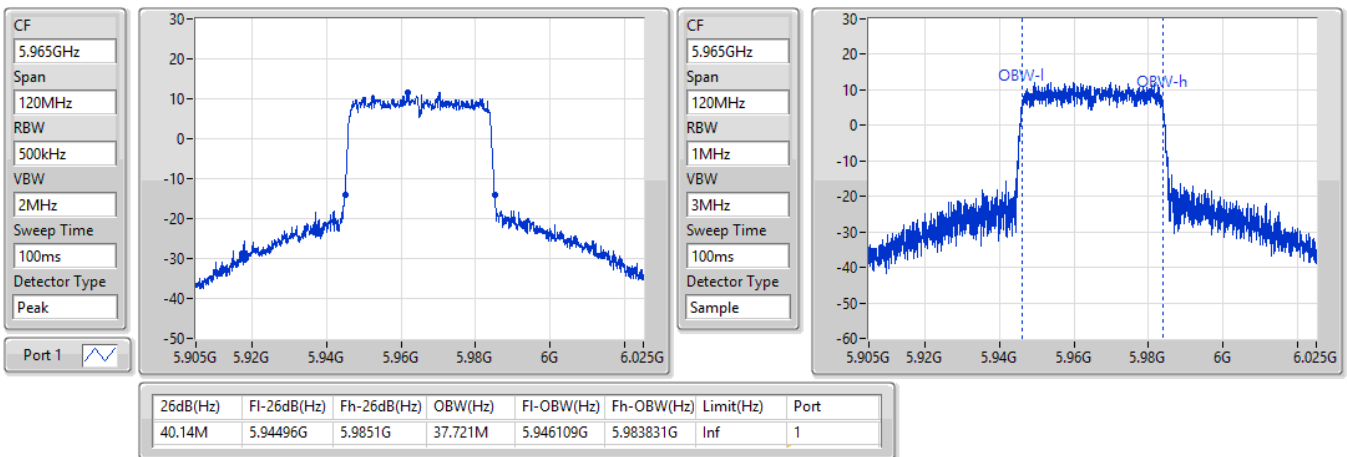


802.11ax HEW40_Nss1,(MCS0)_1TX

EBW

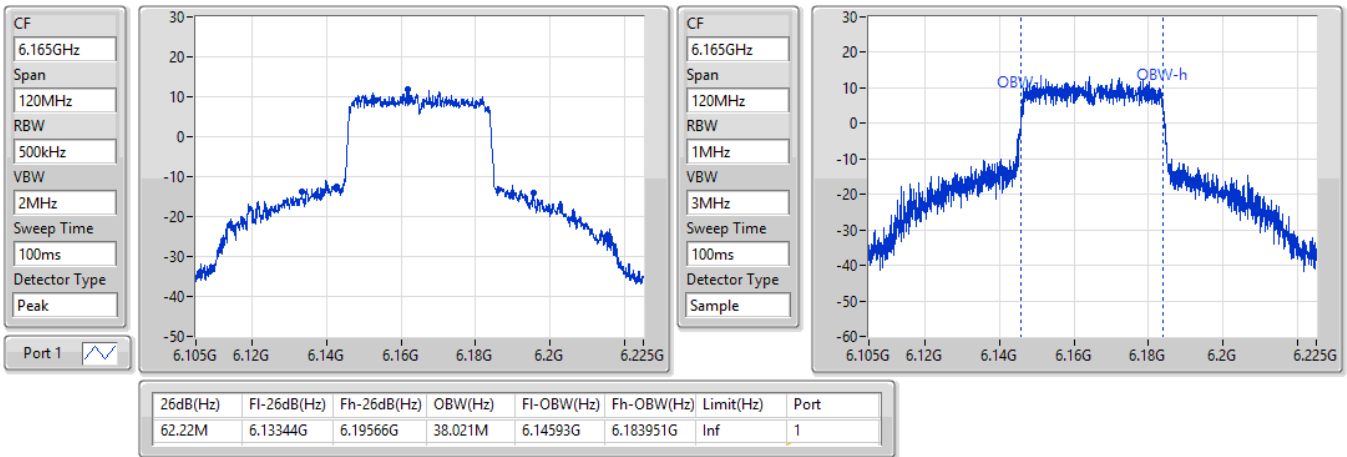
5965MHz

16/06/2021

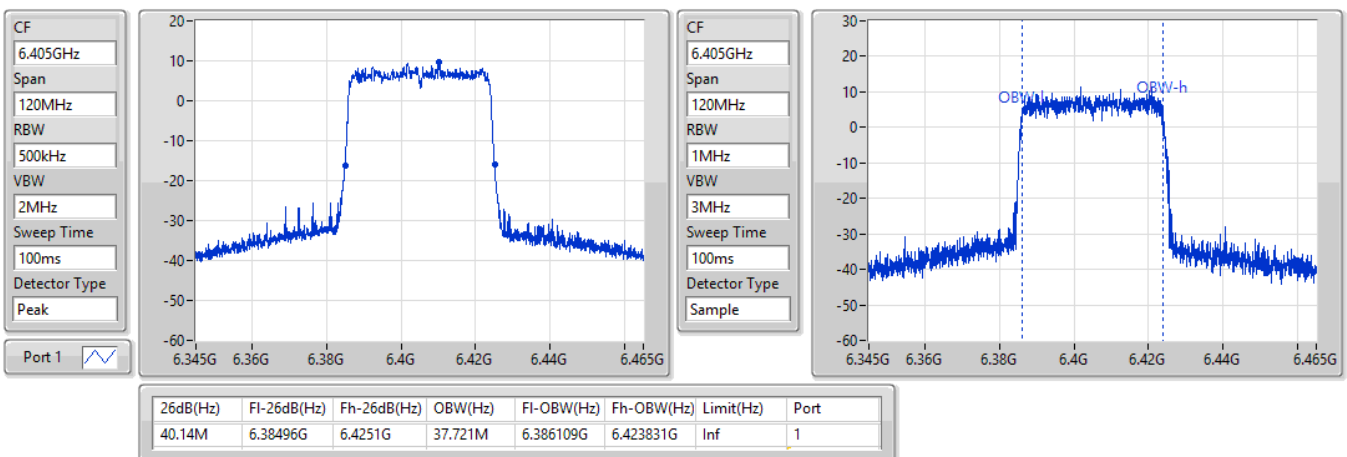


802.11ax HEW40_Nss1,(MCS0)_1TX
EBW
6165MHz

16/06/2021

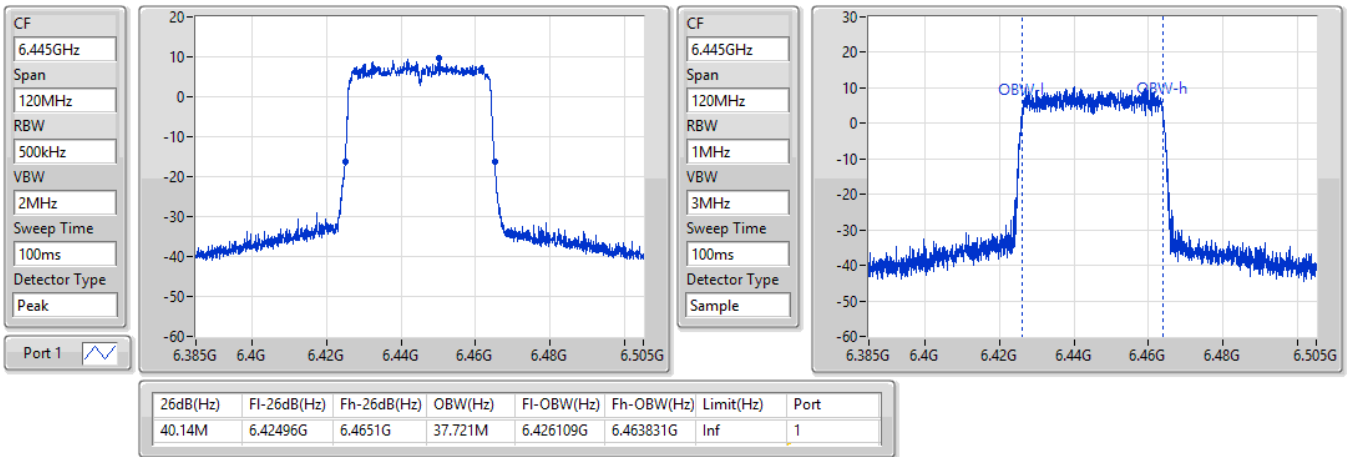

802.11ax HEW40_Nss1,(MCS0)_1TX
EBW
6405MHz

16/06/2021

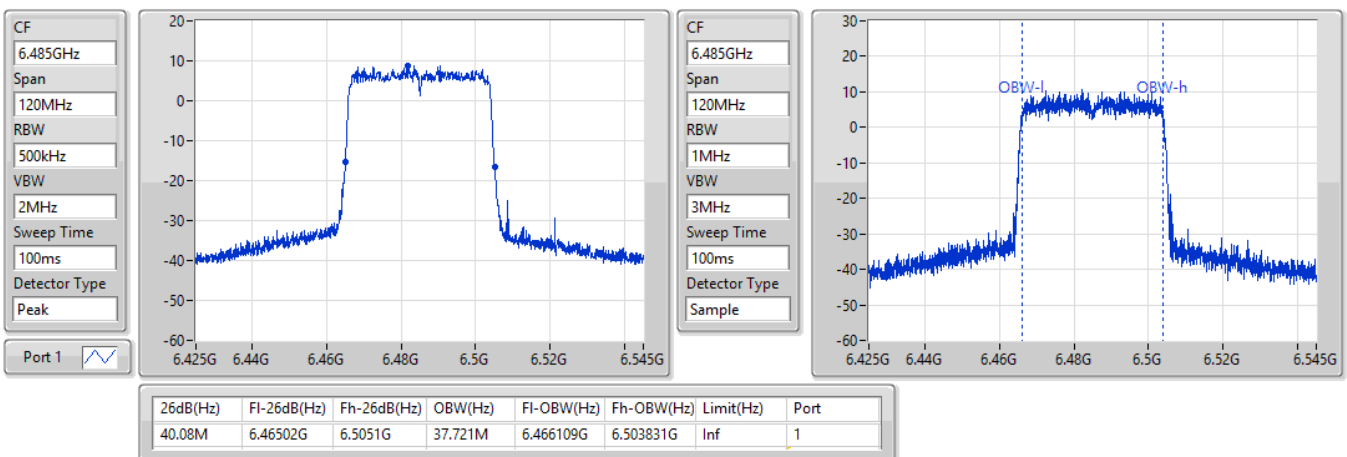


802.11ax HEW40_Nss1,(MCS0)_1TX
EBW
6445MHz

16/06/2021

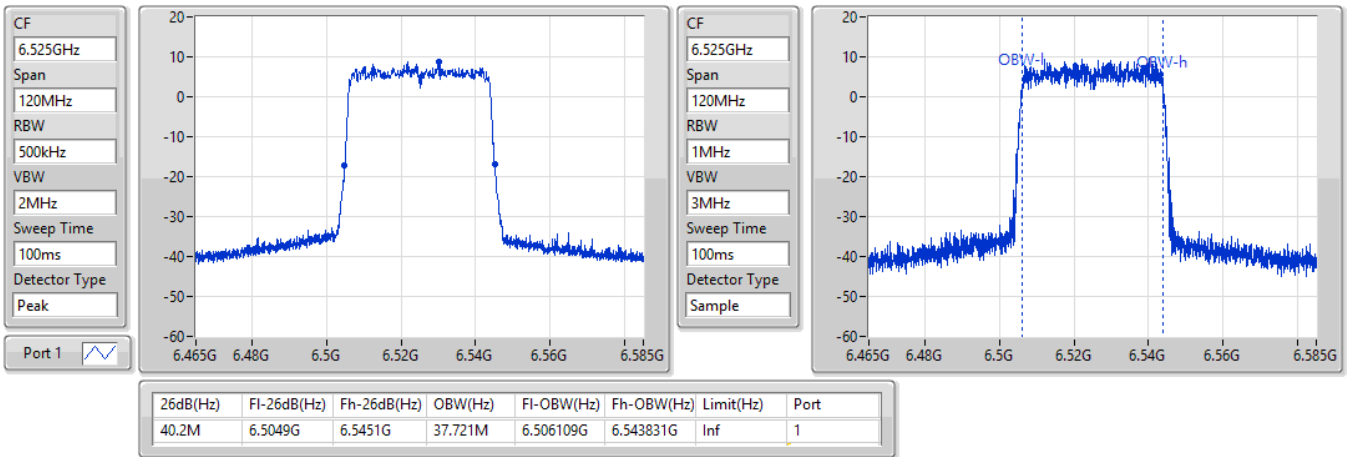

802.11ax HEW40_Nss1,(MCS0)_1TX
EBW
6485MHz

16/06/2021

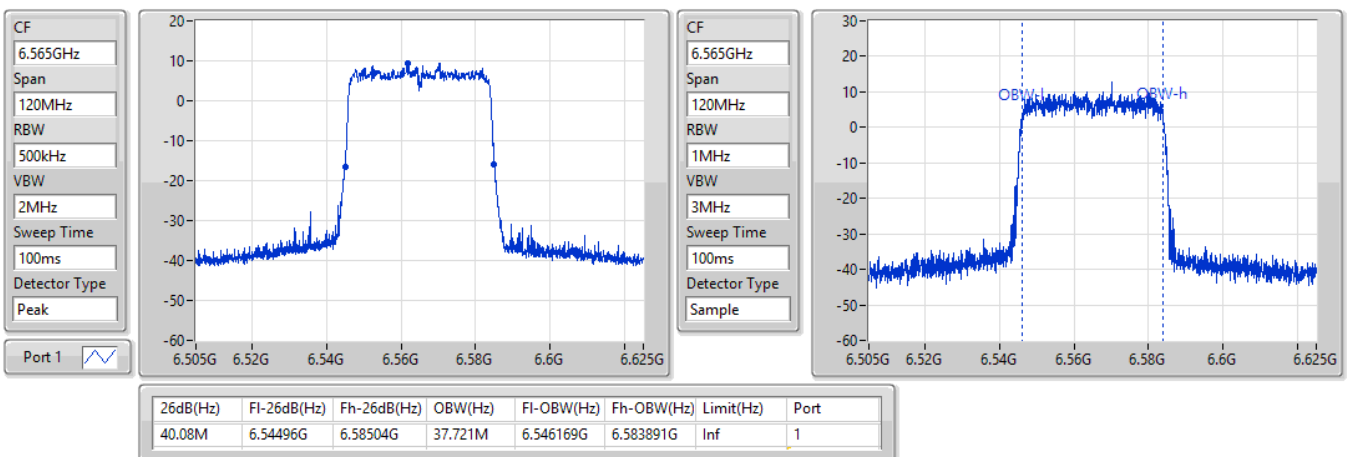


802.11ax HEW40_Nss1,(MCS0)_1TX
EBW
6525MHz Straddle 6.425-6.525GHz

17/06/2021


802.11ax HEW40_Nss1,(MCS0)_1TX
EBW
6565MHz

16/06/2021

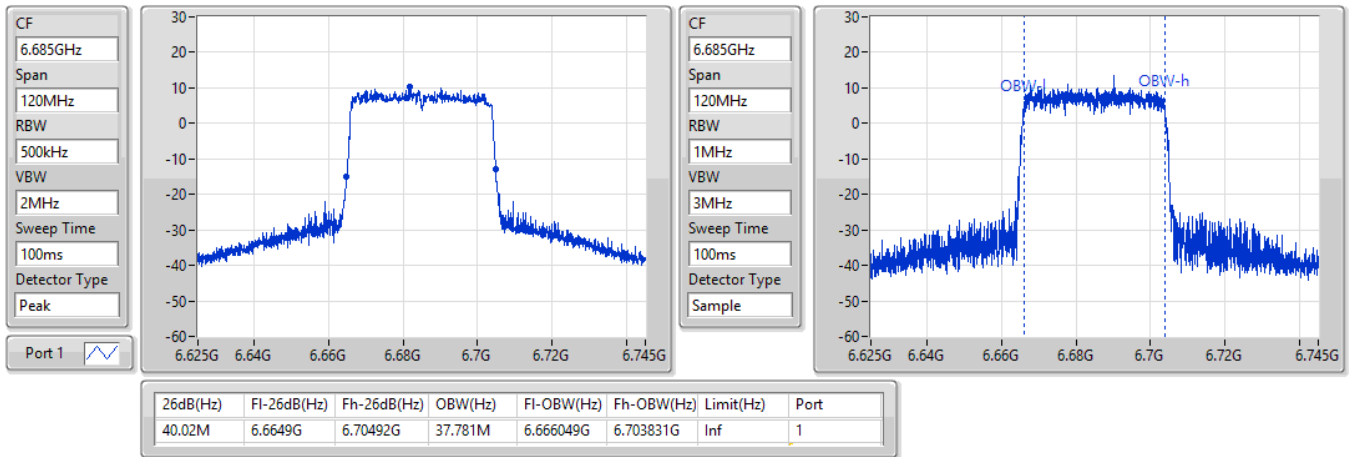


802.11ax HEW40_Nss1,(MCS0)_1TX

EBW

6685MHz

16/06/2021

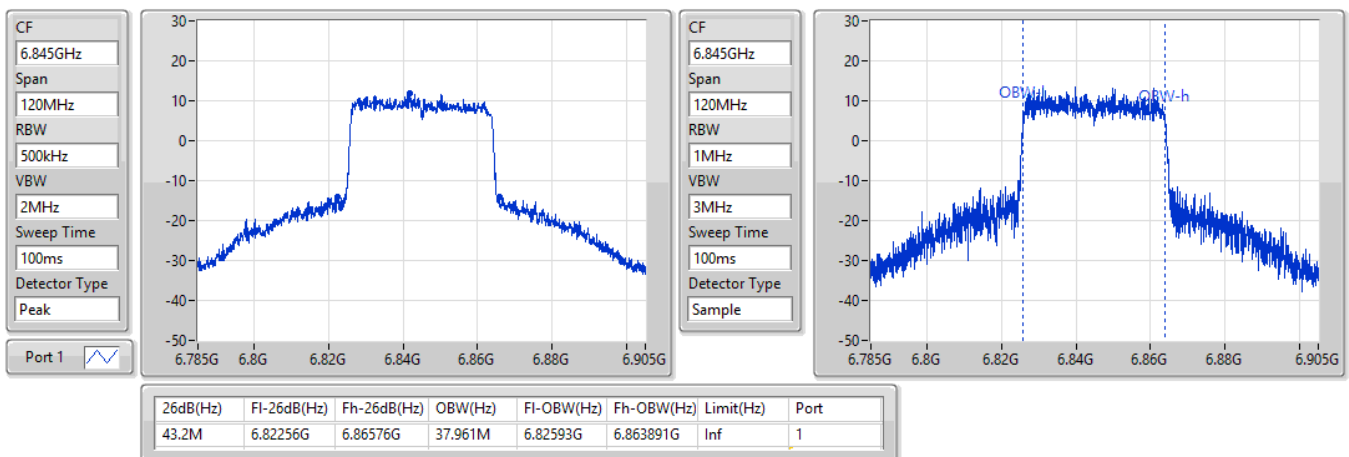


802.11ax HEW40_Nss1,(MCS0)_1TX

EBW

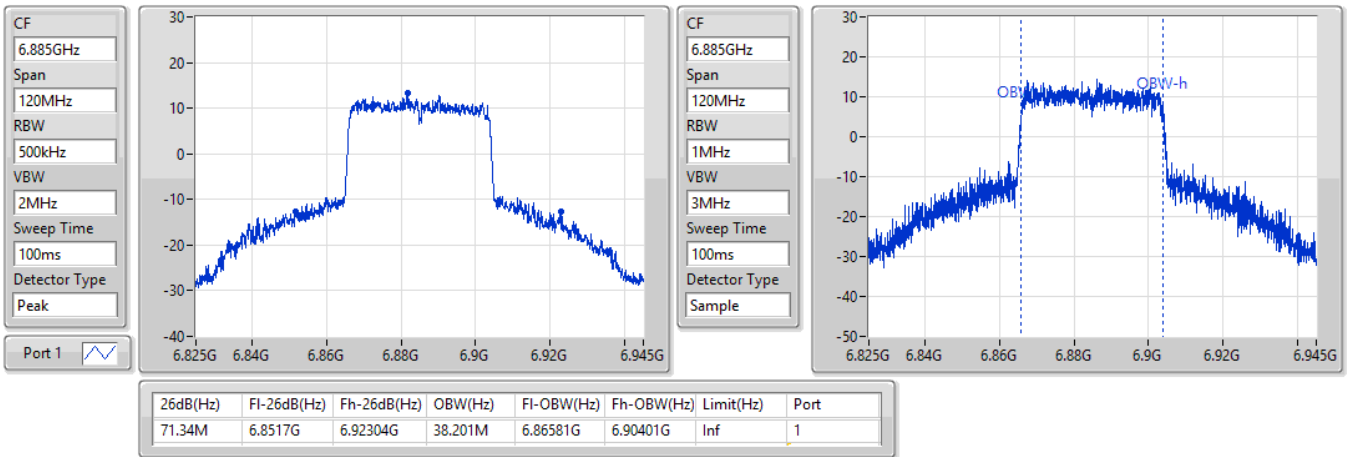
6845MHz

16/06/2021

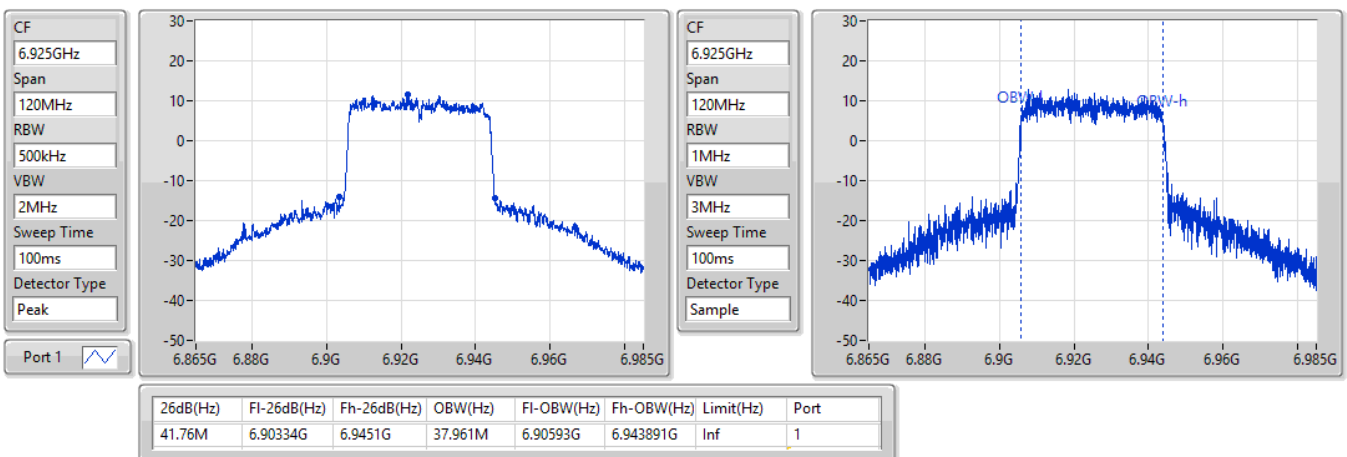


802.11ax HEW40_Nss1,(MCS0)_1TX
EBW
6885MHz Straddle 6.525-6.875GHz

17/06/2021

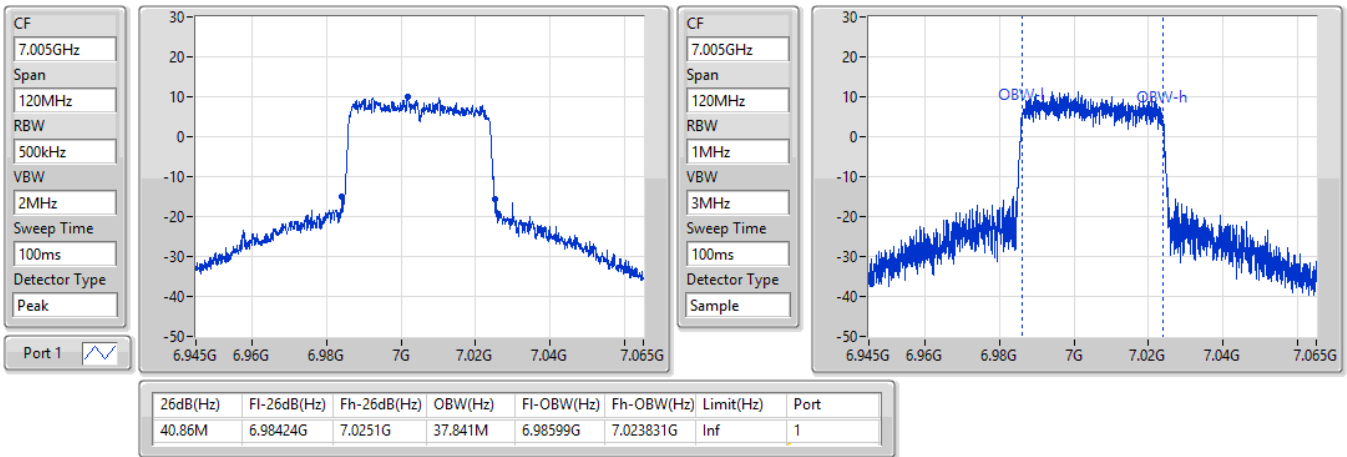

802.11ax HEW40_Nss1,(MCS0)_1TX
EBW
6925MHz

16/06/2021

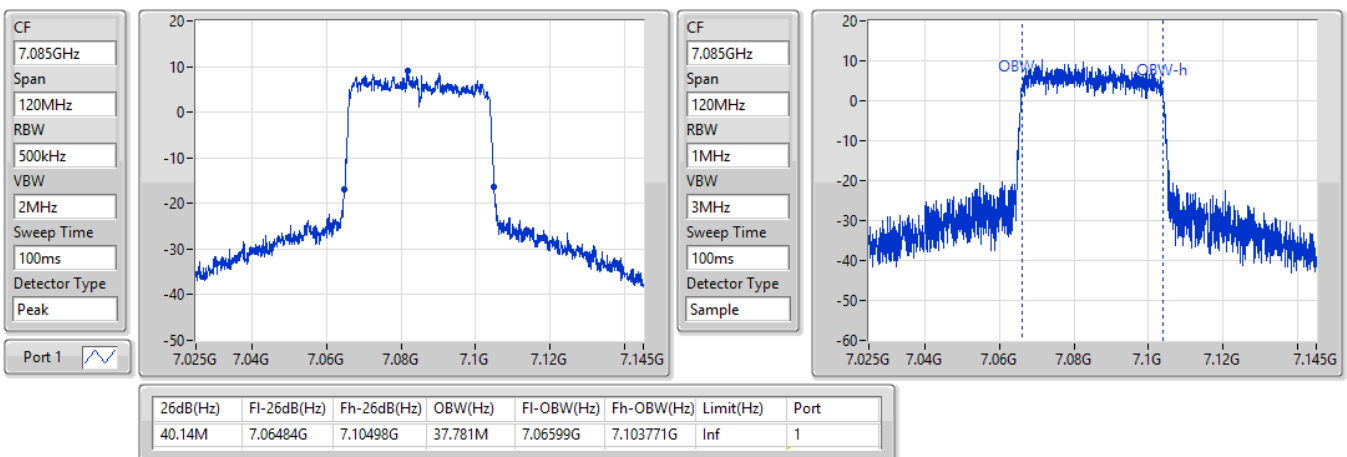


802.11ax HEW40_Nss1,(MCS0)_1TX
EBW
7005MHz

16/06/2021

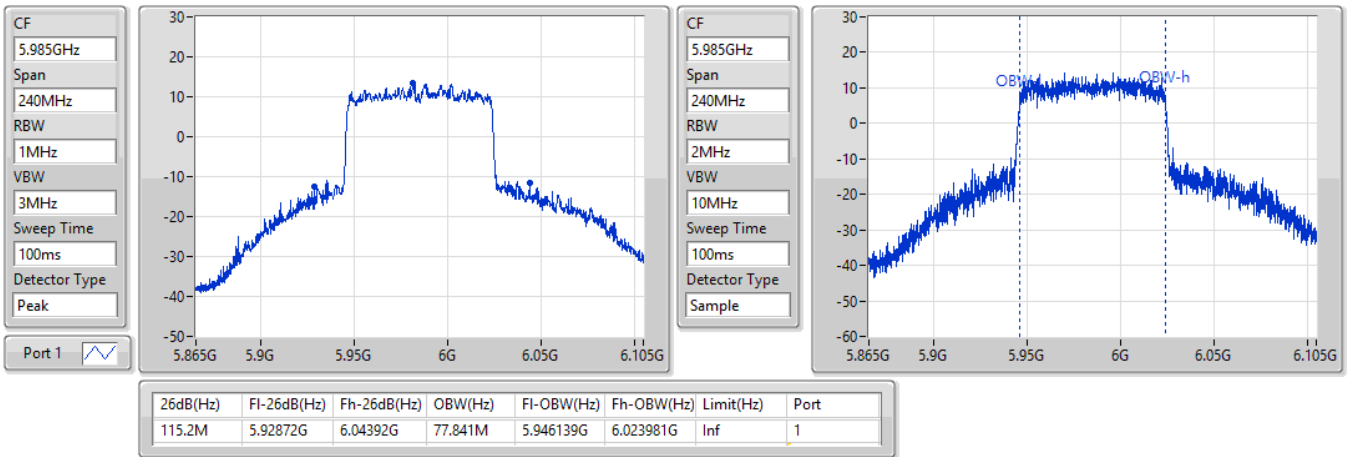

802.11ax HEW40_Nss1,(MCS0)_1TX
EBW
7085MHz

17/06/2021

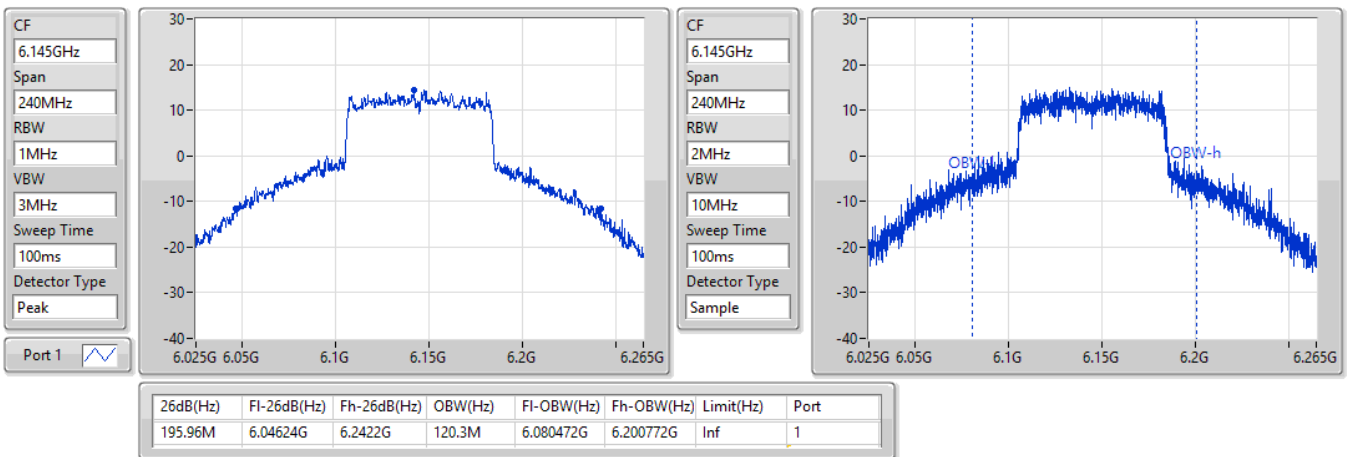


802.11ax HEW80_Nss1,(MCS0)_1TX
EBW
5985MHz

17/06/2021


802.11ax HEW80_Nss1,(MCS0)_1TX
EBW
6145MHz

17/06/2021

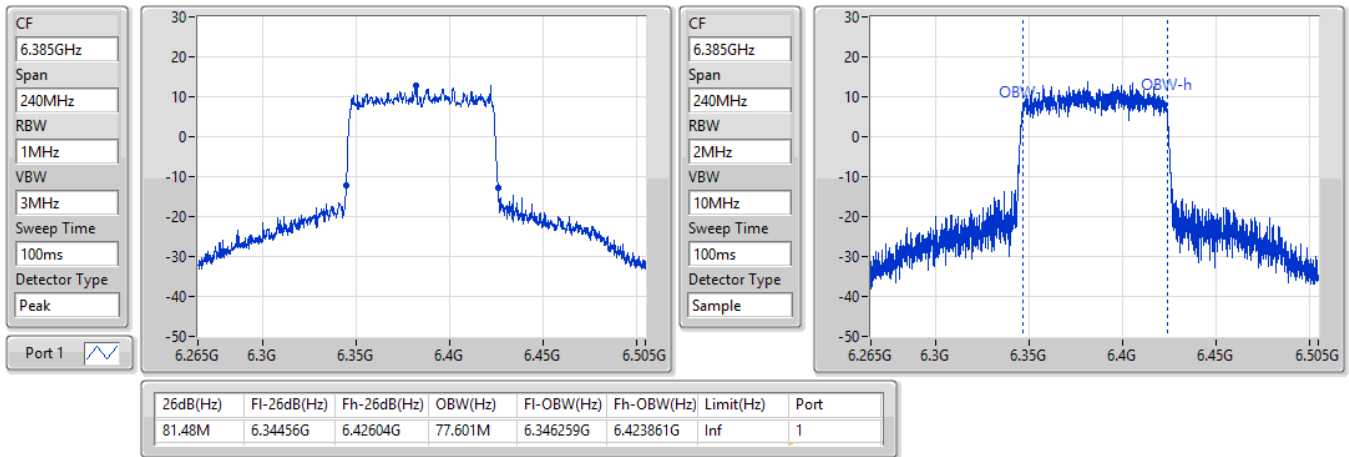


802.11ax HEW80_Nss1,(MCS0)_1TX

EBW

6385MHz

17/06/2021

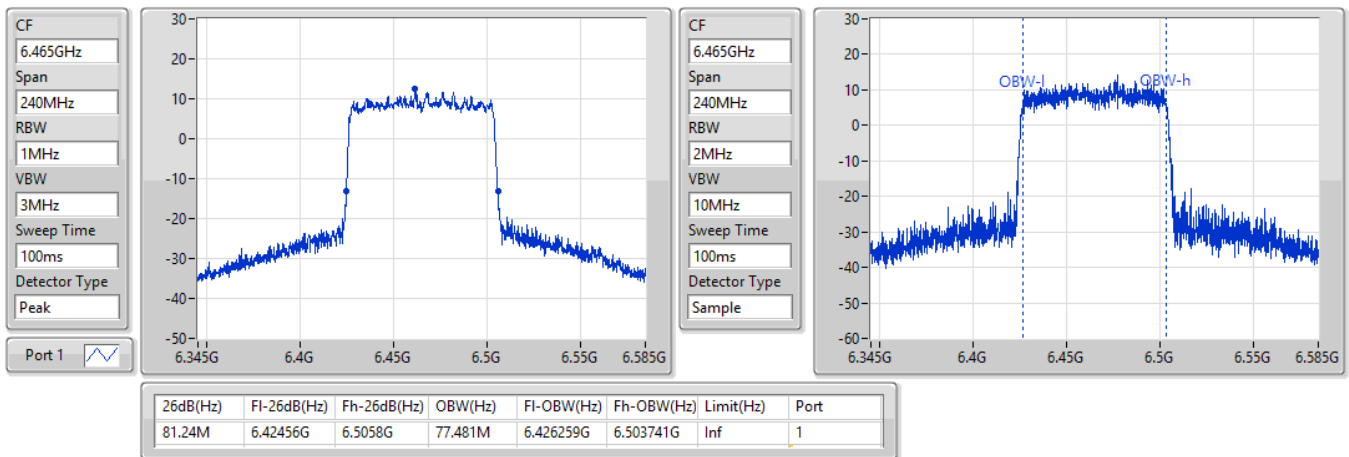


802.11ax HEW80_Nss1,(MCS0)_1TX

EBW

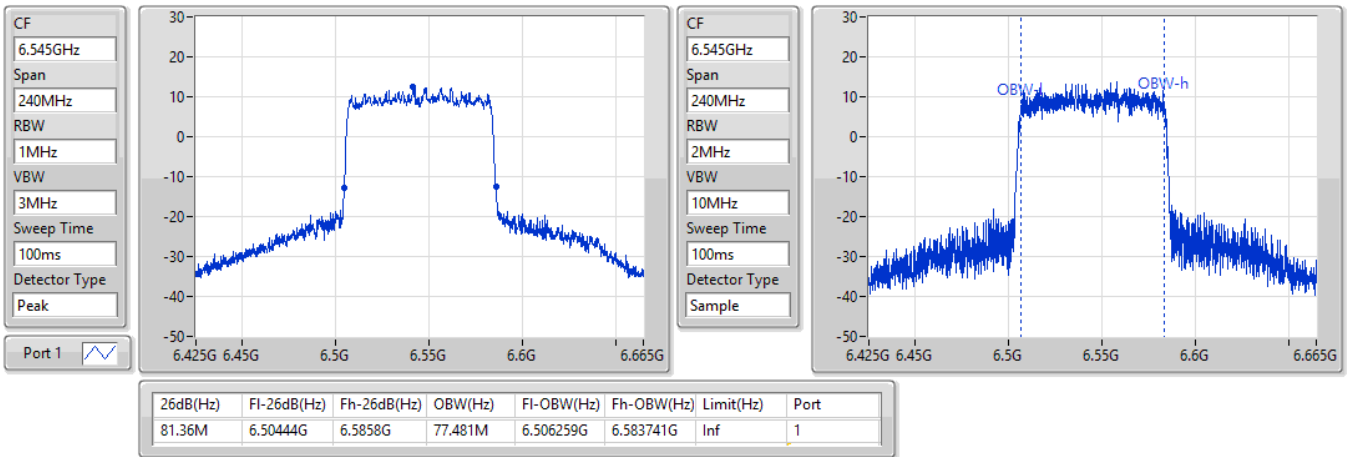
6465MHz

17/06/2021

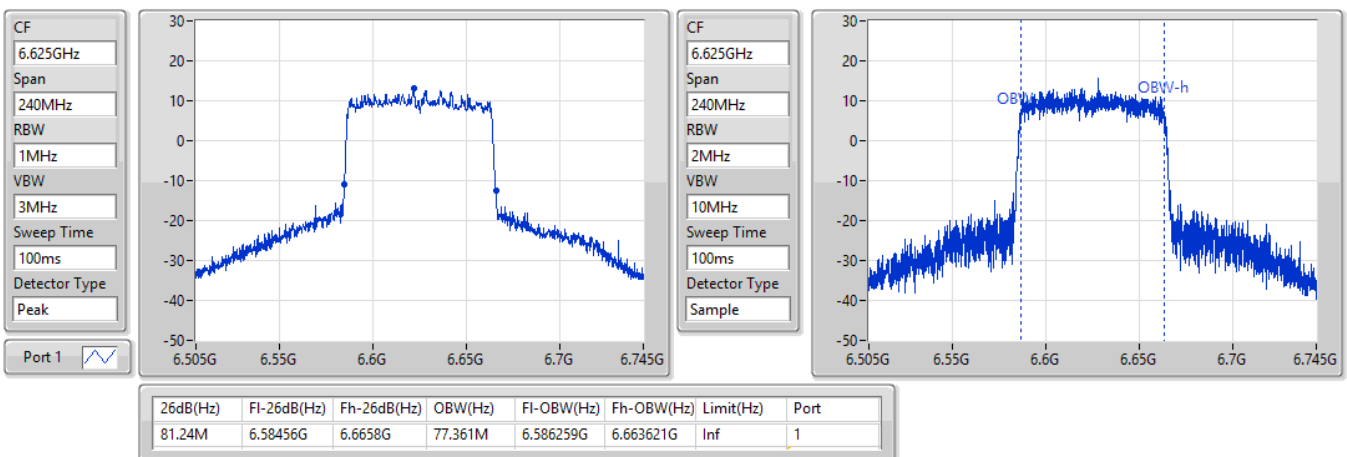


802.11ax HEW80_Nss1,(MCS0)_1TX
EBW
6545MHz Straddle 6.425-6.525GHz

17/06/2021

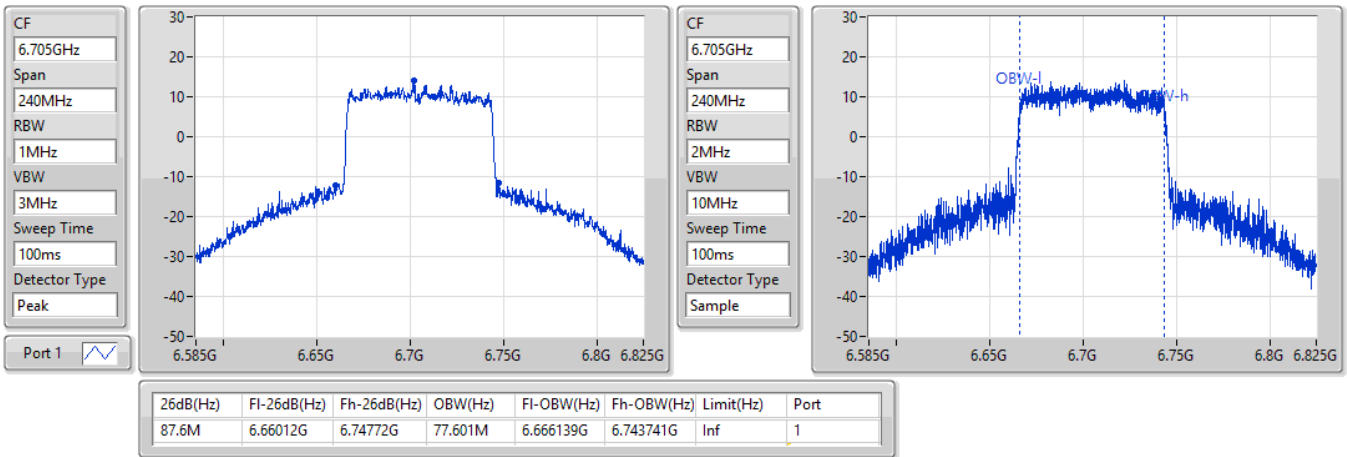

802.11ax HEW80_Nss1,(MCS0)_1TX
EBW
6625MHz

17/06/2021

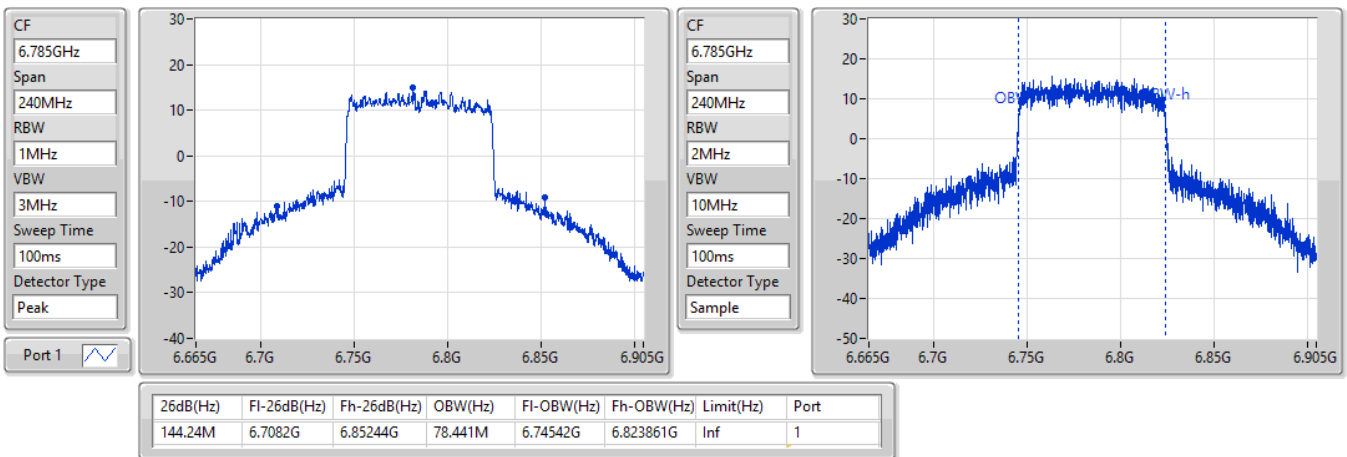


802.11ax HEW80_Nss1,(MCS0)_1TX
EBW
6705MHz

17/06/2021

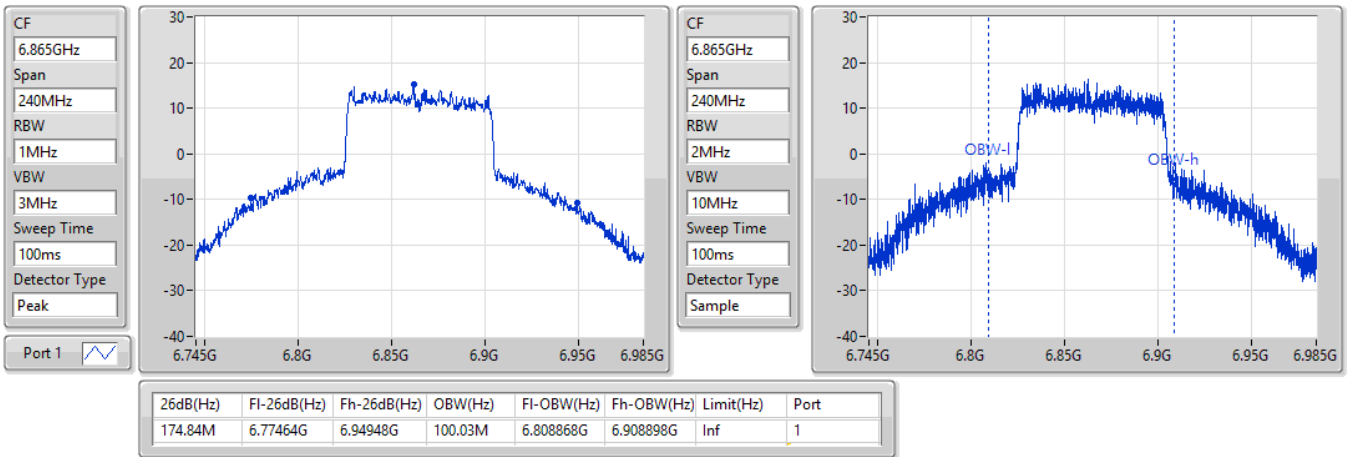

802.11ax HEW80_Nss1,(MCS0)_1TX
EBW
6785MHz

17/06/2021

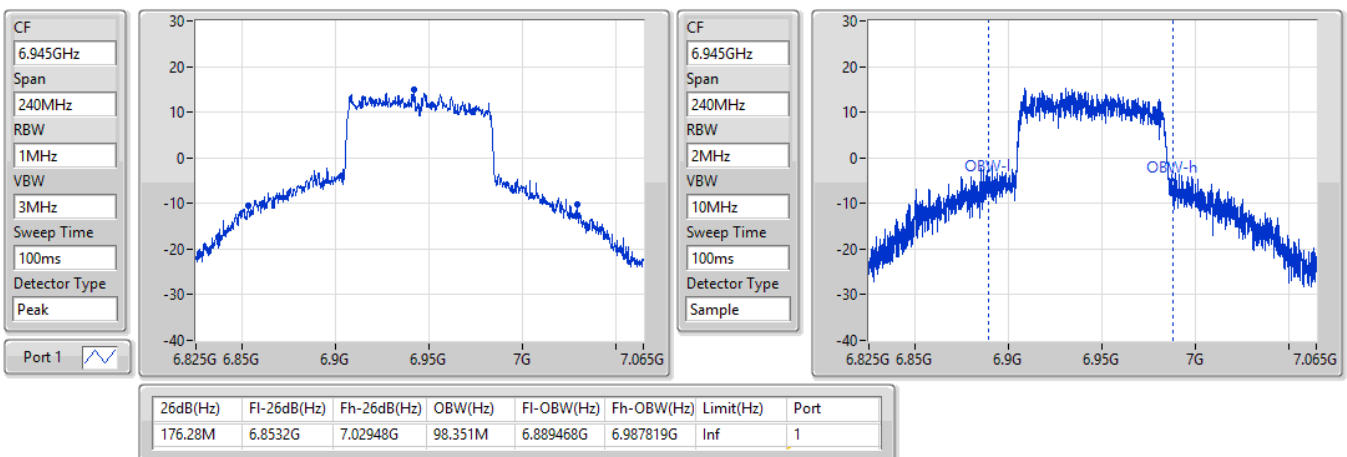


802.11ax HEW80_Nss1,(MCS0)_1TX
EBW
6865MHz Straddle 6.525-6.875GHz

17/06/2021

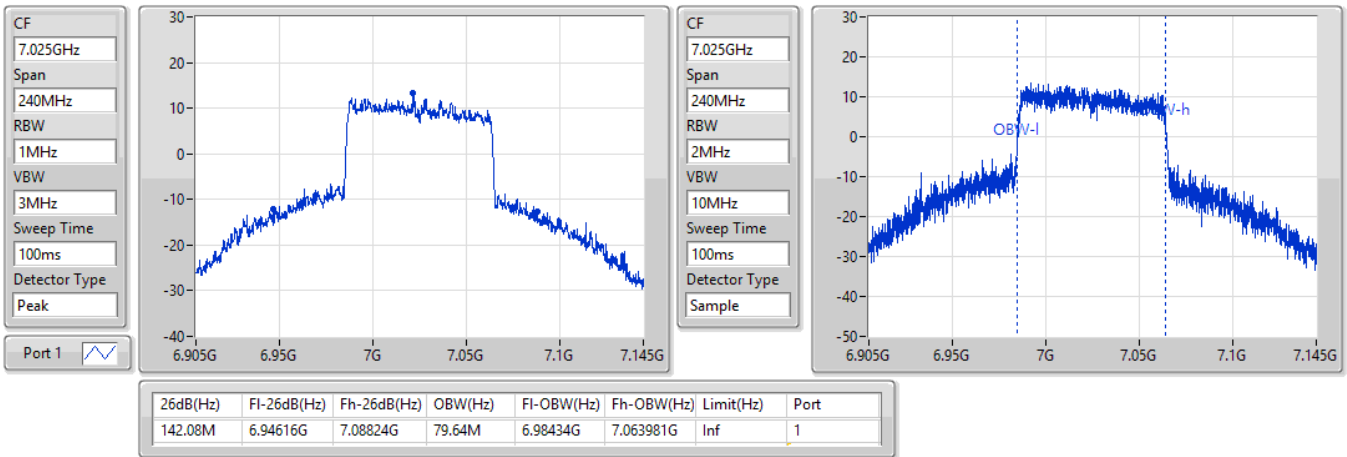

802.11ax HEW80_Nss1,(MCS0)_1TX
EBW
6945MHz

17/06/2021

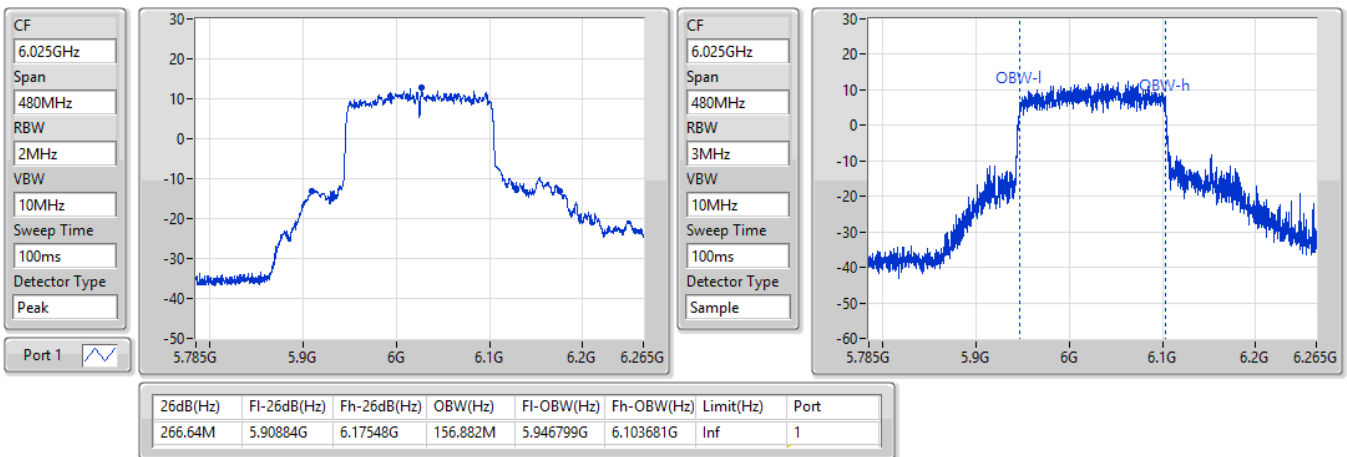


802.11ax HEW80_Nss1,(MCS0)_1TX
EBW
7025MHz

17/06/2021


802.11ax HEW160_Nss1,(MCS0)_1TX
EBW
6025MHz

17/06/2021

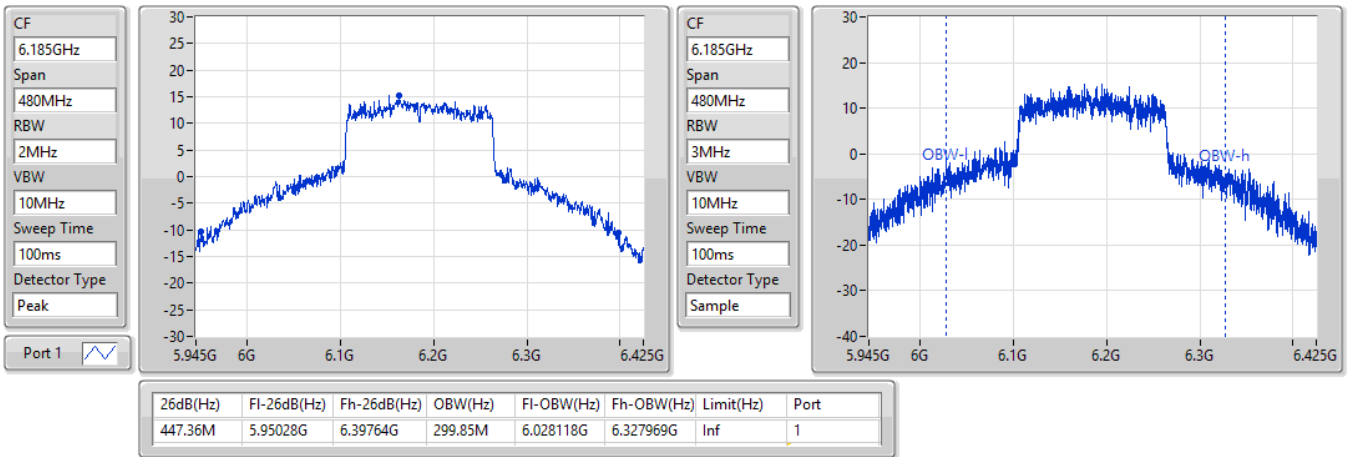


802.11ax HEW160_Nss1,(MCS0)_1TX

EBW

6185MHz

17/06/2021

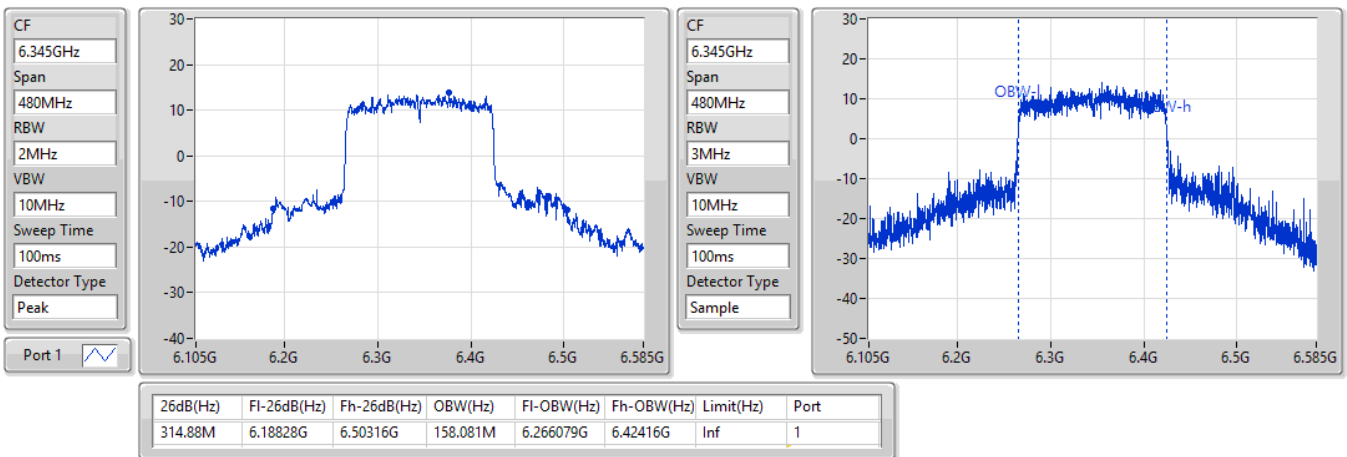


802.11ax HEW160_Nss1,(MCS0)_1TX

EBW

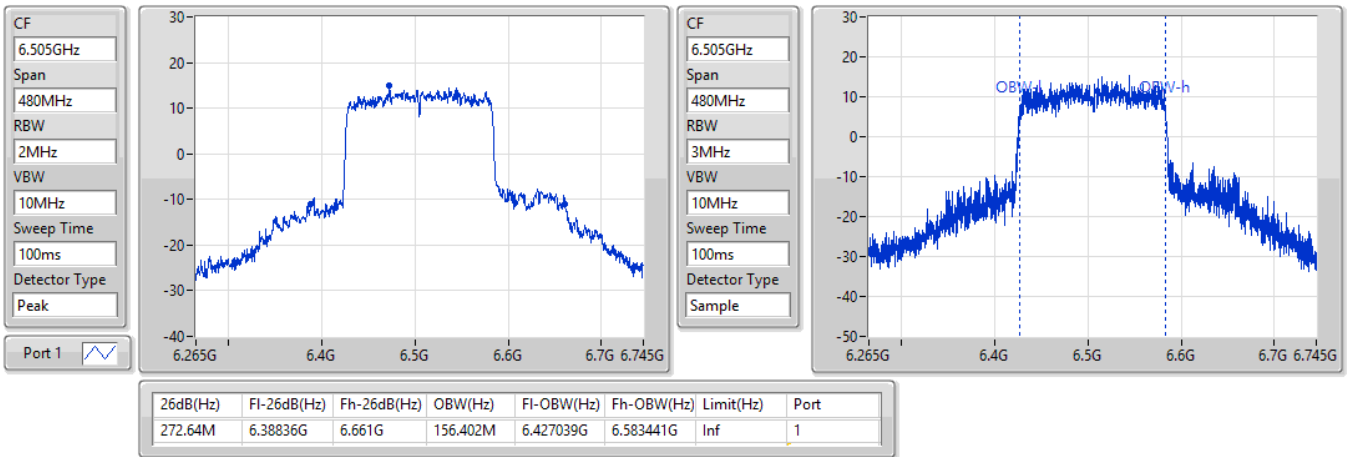
6345MHz

17/06/2021

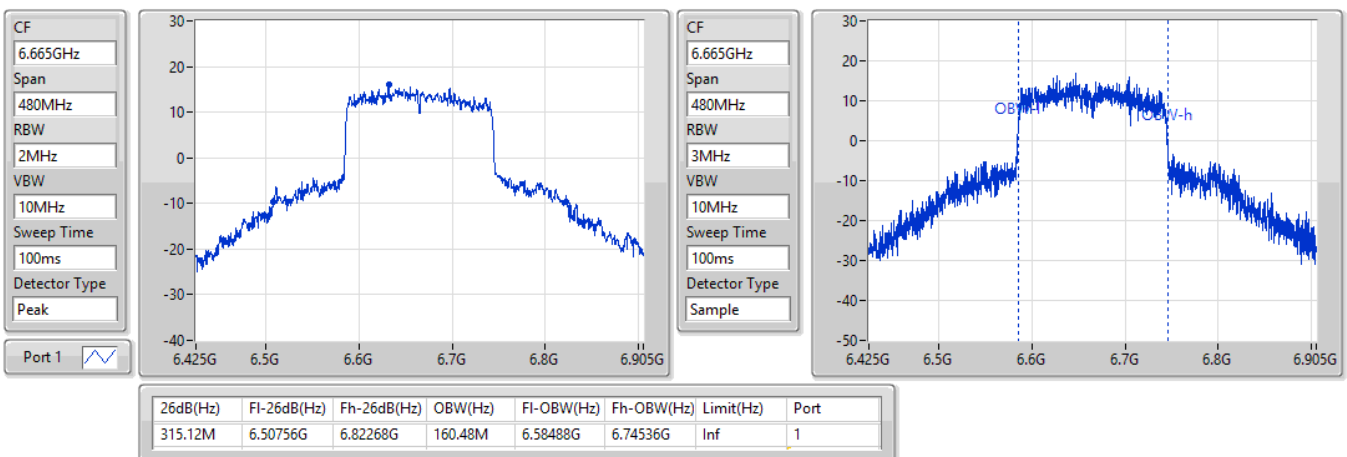


802.11ax HEW160_Nss1,(MCS0)_1TX
EBW
6505MHz Straddle 6.425-6.525GHz

17/06/2021

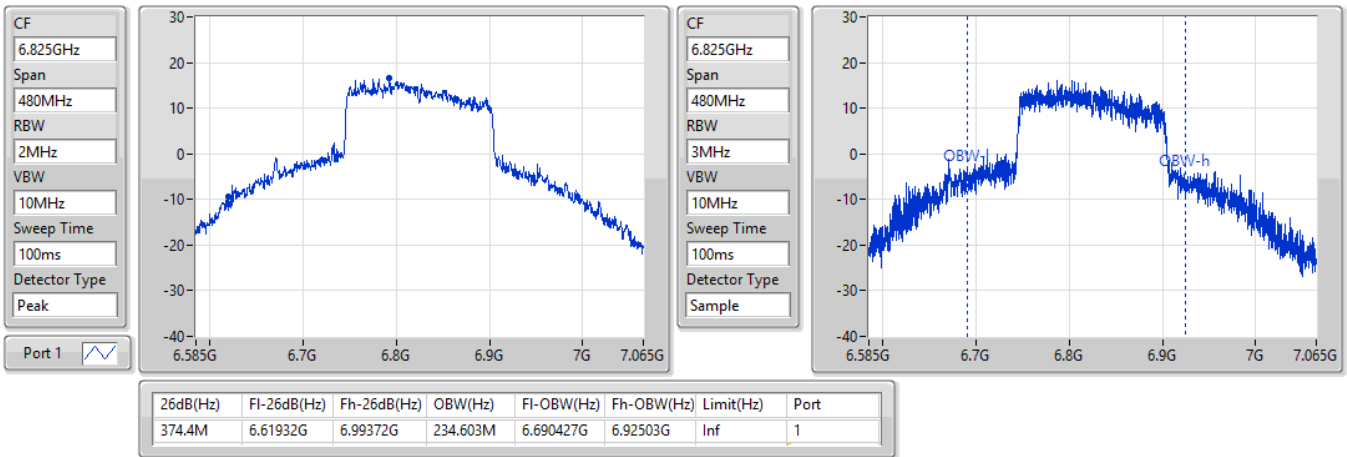

802.11ax HEW160_Nss1,(MCS0)_1TX
EBW
6665MHz

17/06/2021

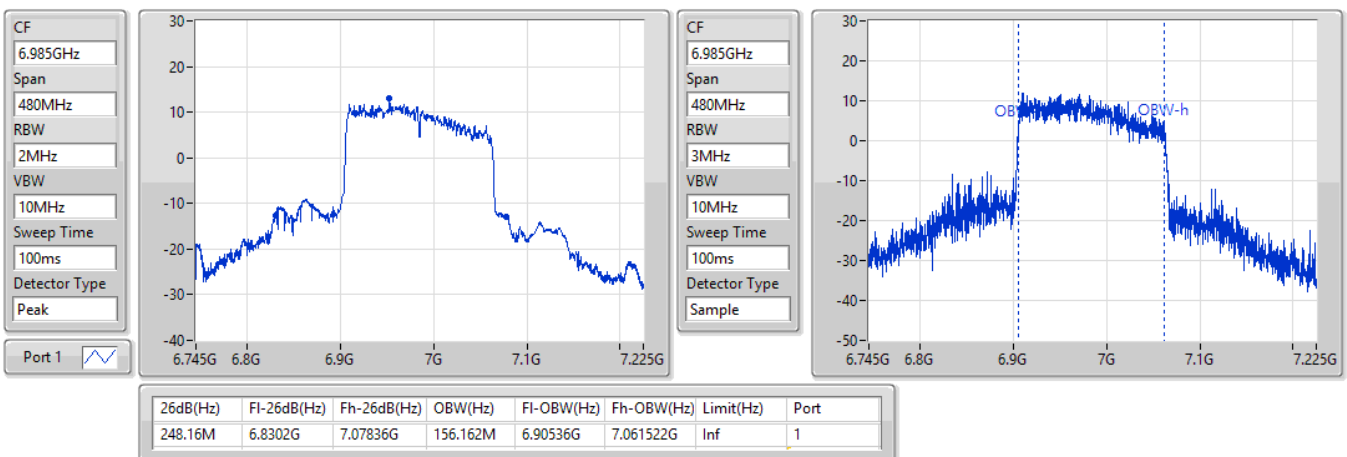


802.11ax HEW160_Nss1,(MCS0)_1TX
EBW
6825MHz Straddle 6.525-6.875GHz

17/06/2021


802.11ax HEW160_Nss1,(MCS0)_1TX
EBW
6985MHz

17/06/2021



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)_2TX	21.69M	19.13M	19M1D1D	21.51M	19.04M
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	40.14M	37.661M	37M7D1D	39.9M	37.541M
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	81.36M	77.241M	77M2D1D	81.12M	76.882M
802.11ax HEW160-BF_Nss1,(MCS0)_2TX	229.68M	156.882M	157MD1D	163.92M	155.682M
6.425-6.525GHz	-	-	-	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	21.75M	19.13M	19M1D1D	21.6M	19.04M
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	40.2M	37.721M	37M7D1D	39.9M	37.601M
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	81.24M	77.121M	77M1D1D	81M	77.001M
802.11ax HEW160-BF_Nss1,(MCS0)_2TX	164.88M	155.922M	156MD1D	164.64M	155.682M
6.525-6.875GHz	-	-	-	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	21.75M	19.1M	19M1D1D	21.54M	19.04M
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	40.14M	37.781M	37M8D1D	39.9M	37.601M
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	81.48M	77.601M	77M6D1D	81.24M	77.121M
802.11ax HEW160-BF_Nss1,(MCS0)_2TX	306M	159.04M	159MD1D	167.52M	156.402M
6.875-7.125GHz	-	-	-	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	21.69M	19.16M	19M2D1D	21.48M	19.04M
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	40.2M	37.781M	37M8D1D	39.84M	37.601M
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	94.68M	77.721M	77M7D1D	81.36M	77.361M
802.11ax HEW160-BF_Nss1,(MCS0)_2TX	305.76M	160.96M	161MD1D	298.08M	158.321M

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

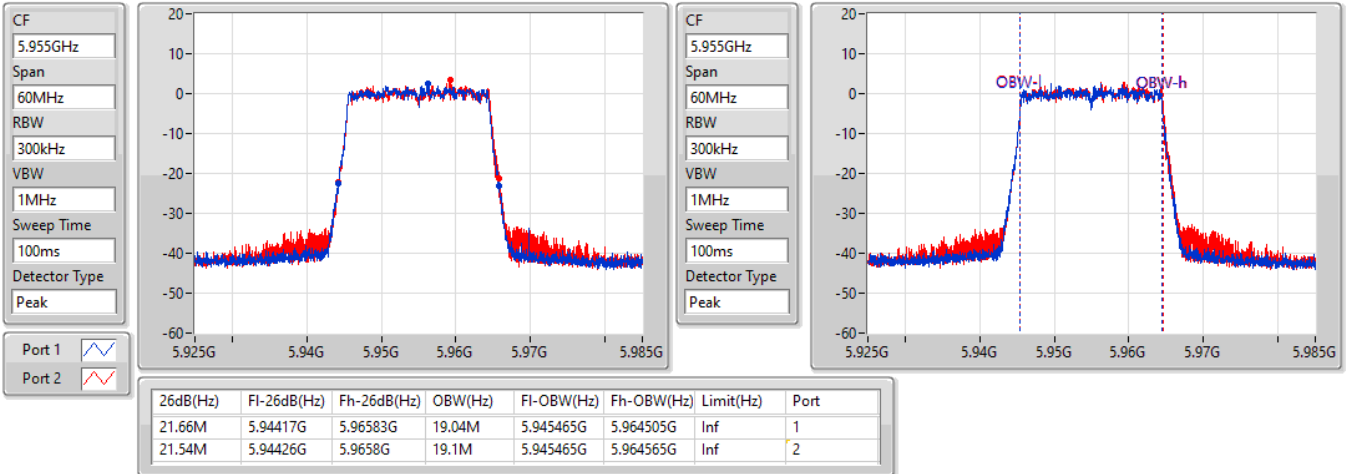
Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5955MHz	Pass	Inf	21.66M	19.04M	21.54M	19.1M
6175MHz	Pass	Inf	21.63M	19.04M	21.69M	19.1M
6415MHz	Pass	Inf	21.66M	19.07M	21.51M	19.13M
6435MHz	Pass	Inf	21.69M	19.04M	21.75M	19.13M
6475MHz	Pass	Inf	21.72M	19.04M	21.63M	19.1M
6515MHz	Pass	Inf	21.66M	19.04M	21.6M	19.13M
6535MHz	Pass	Inf	21.69M	19.07M	21.69M	19.1M
6695MHz	Pass	Inf	21.66M	19.04M	21.54M	19.1M
6855MHz	Pass	Inf	21.75M	19.04M	21.66M	19.1M
6875MHz	Pass	Inf	21.63M	19.04M	21.63M	19.1M
6895MHz	Pass	Inf	21.63M	19.07M	21.66M	19.07M
6995MHz	Pass	Inf	21.69M	19.07M	21.48M	19.16M
7095MHz	Pass	Inf	21.63M	19.04M	21.57M	19.1M
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5965MHz	Pass	Inf	40.14M	37.661M	39.9M	37.541M
6165MHz	Pass	Inf	40.14M	37.661M	40.02M	37.661M
6405MHz	Pass	Inf	40.02M	37.661M	39.96M	37.661M
6445MHz	Pass	Inf	40.08M	37.721M	39.9M	37.601M
6485MHz	Pass	Inf	40.2M	37.721M	39.96M	37.661M
6525MHz	Pass	Inf	40.14M	37.661M	39.9M	37.601M
6565MHz	Pass	Inf	40.02M	37.781M	39.96M	37.661M
6685MHz	Pass	Inf	40.08M	37.721M	39.9M	37.661M
6845MHz	Pass	Inf	40.14M	37.721M	39.9M	37.601M
6885MHz	Pass	Inf	40.08M	37.661M	39.96M	37.661M
6925MHz	Pass	Inf	40.2M	37.721M	39.84M	37.601M
7005MHz	Pass	Inf	40.08M	37.721M	39.9M	37.601M
7085MHz	Pass	Inf	40.14M	37.781M	39.84M	37.601M
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5985MHz	Pass	Inf	81.24M	76.882M	81.24M	77.001M
6145MHz	Pass	Inf	81.36M	77.001M	81.36M	77.001M
6385MHz	Pass	Inf	81.36M	77.121M	81.12M	77.241M
6465MHz	Pass	Inf	81.24M	77.001M	81.12M	77.001M
6545MHz	Pass	Inf	81.24M	77.121M	81M	77.001M
6625MHz	Pass	Inf	81.36M	77.121M	81.36M	77.241M
6705MHz	Pass	Inf	81.48M	77.241M	81.24M	77.361M
6785MHz	Pass	Inf	81.24M	77.241M	81.24M	77.601M
6865MHz	Pass	Inf	81.24M	77.121M	81.36M	77.361M
6945MHz	Pass	Inf	81.48M	77.361M	81.36M	77.481M
7025MHz	Pass	Inf	81.36M	77.481M	94.68M	77.721M
802.11ax HEW160-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
6025MHz	Pass	Inf	167.04M	155.682M	166.32M	155.682M
6185MHz	Pass	Inf	221.76M	156.882M	229.68M	156.882M
6345MHz	Pass	Inf	164.16M	156.162M	163.92M	156.162M
6505MHz	Pass	Inf	164.64M	155.682M	164.88M	155.922M
6665MHz	Pass	Inf	167.52M	156.402M	222M	156.642M
6825MHz	Pass	Inf	292.08M	157.601M	306M	159.04M
6985MHz	Pass	Inf	298.08M	160.96M	305.76M	158.321M

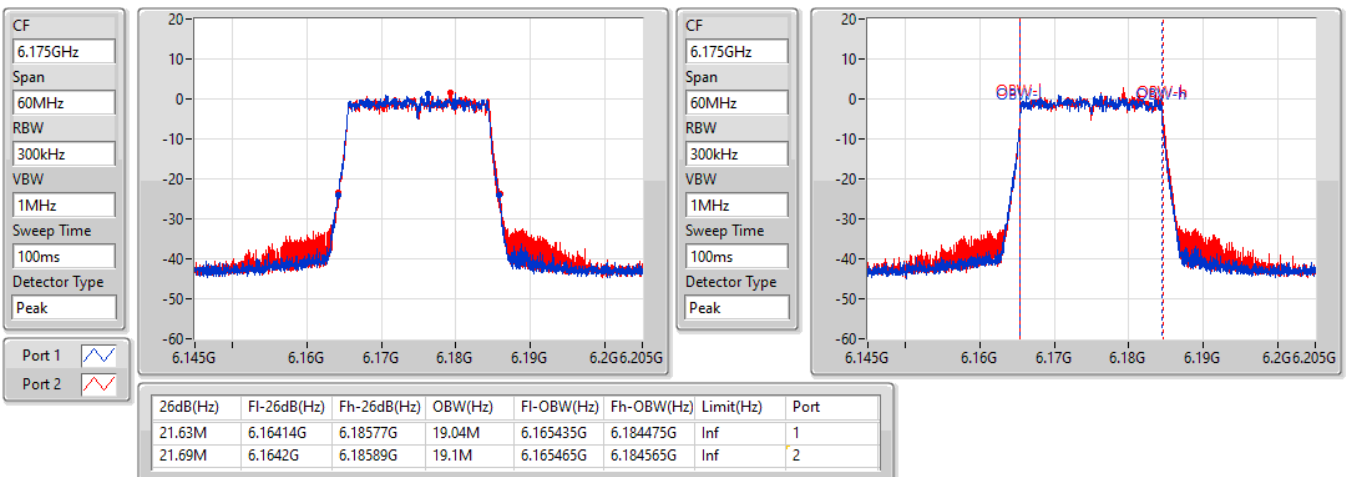
Port X-N dB = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band
Port X-OBW = Port X 99% occupied bandwidth

802.11ax HEW20-BF_Nss1,(MCS0)_2TX
EBW
5955MHz

28/06/2021

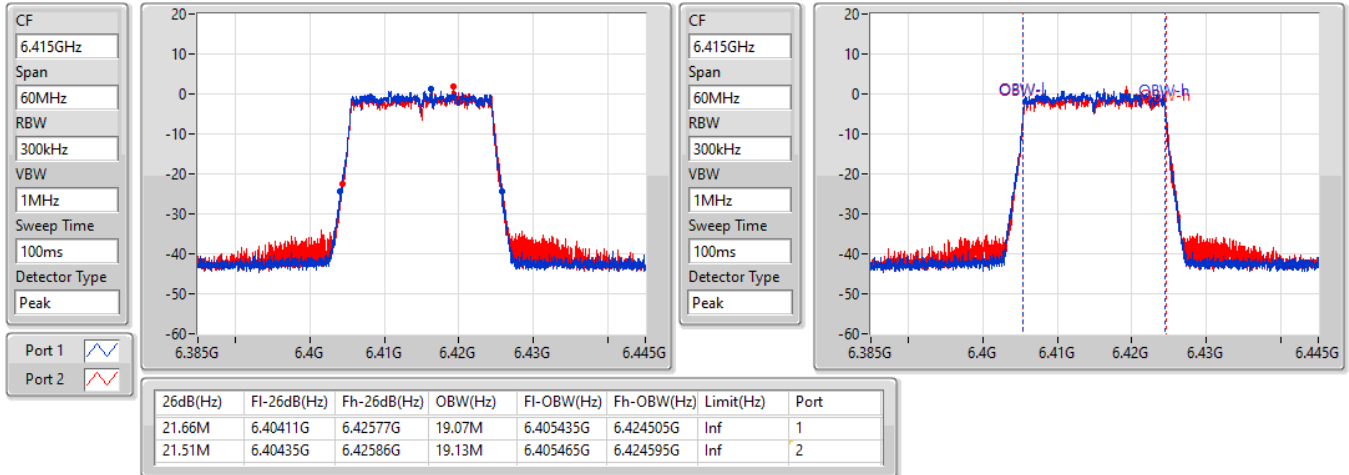

802.11ax HEW20-BF_Nss1,(MCS0)_2TX
EBW
6175MHz

28/06/2021

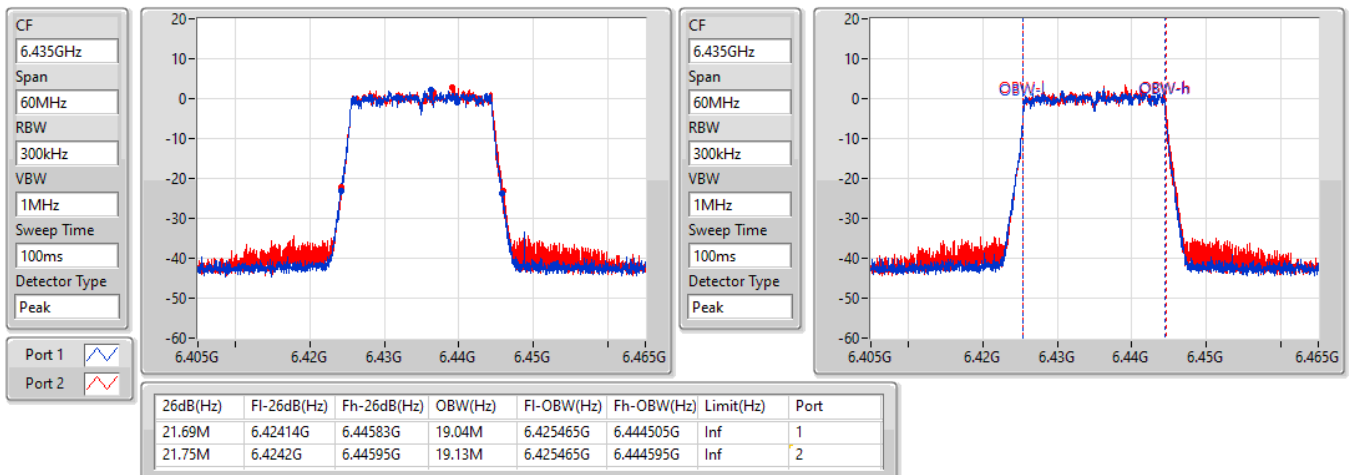


802.11ax HEW20-BF_Nss1,(MCS0)_2TX
EBW
6415MHz

28/06/2021


802.11ax HEW20-BF_Nss1,(MCS0)_2TX
EBW
6435MHz

28/06/2021

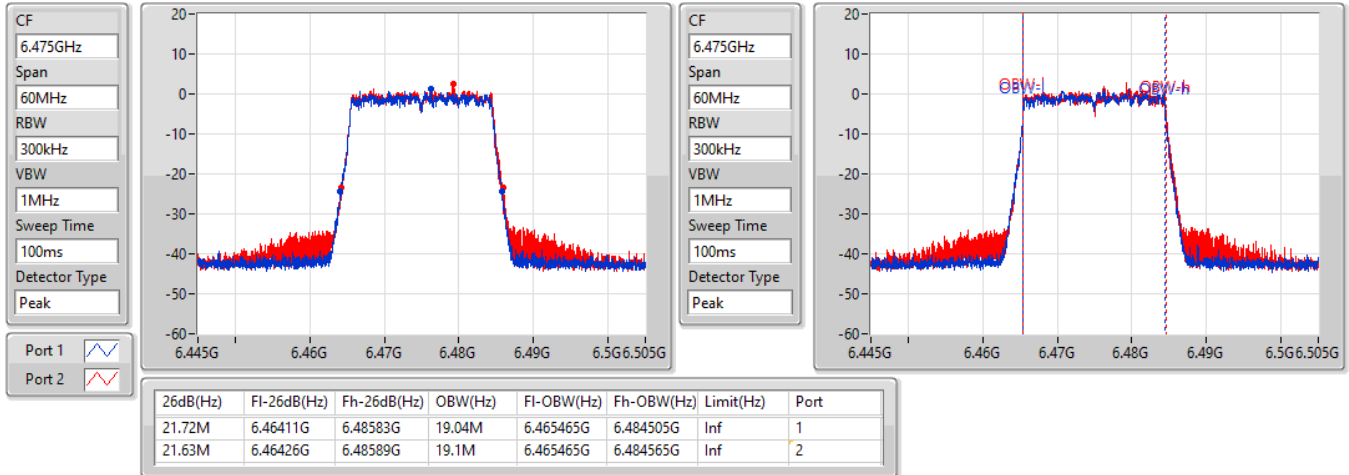


802.11ax HEW20-BF_Nss1,(MCS0)_2TX

EBW

6475MHz

28/06/2021

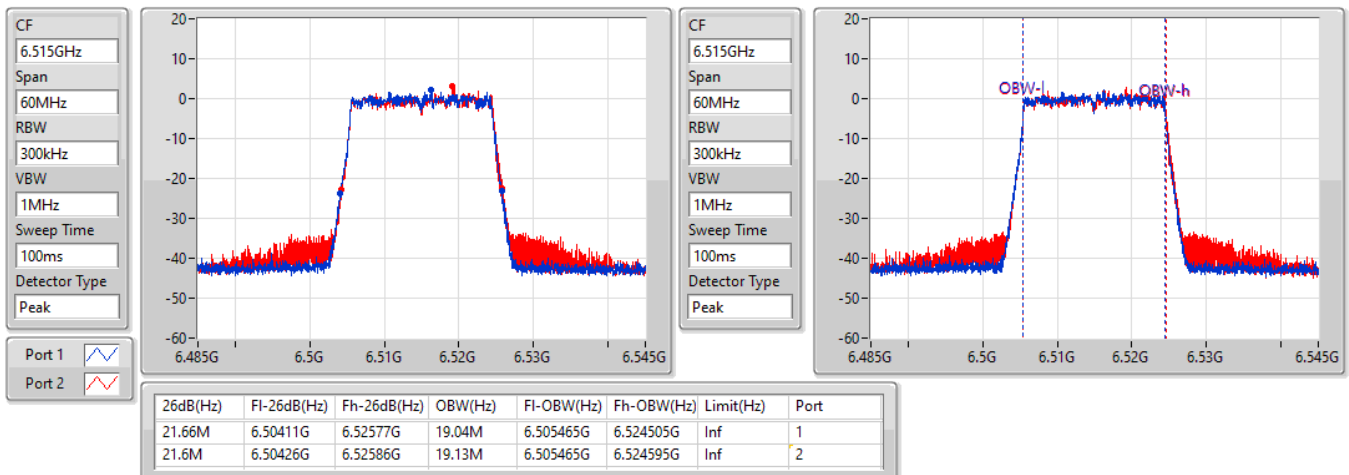


802.11ax HEW20-BF_Nss1,(MCS0)_2TX

EBW

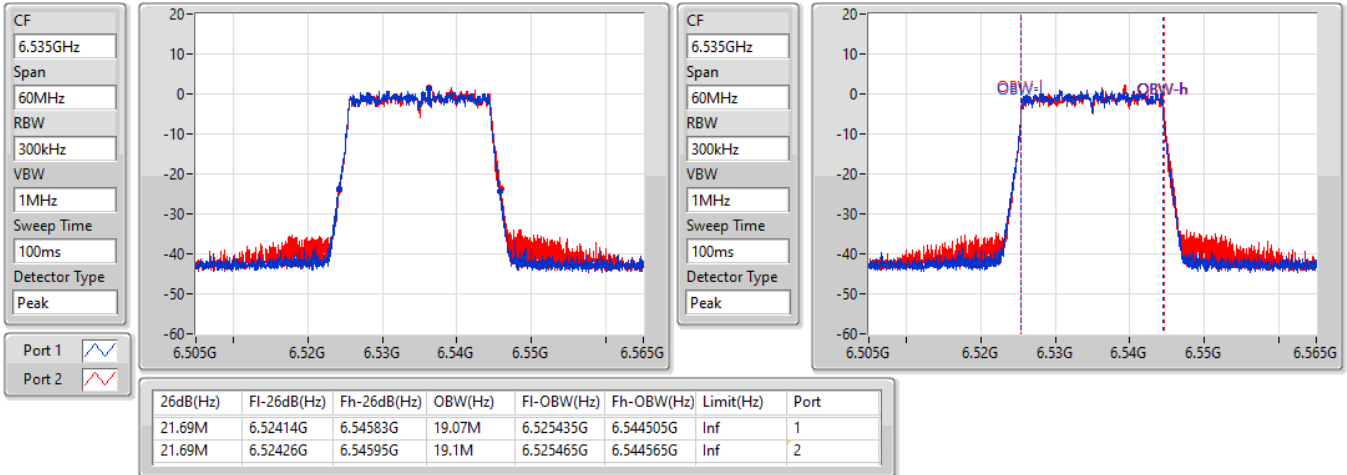
6515MHz

28/06/2021

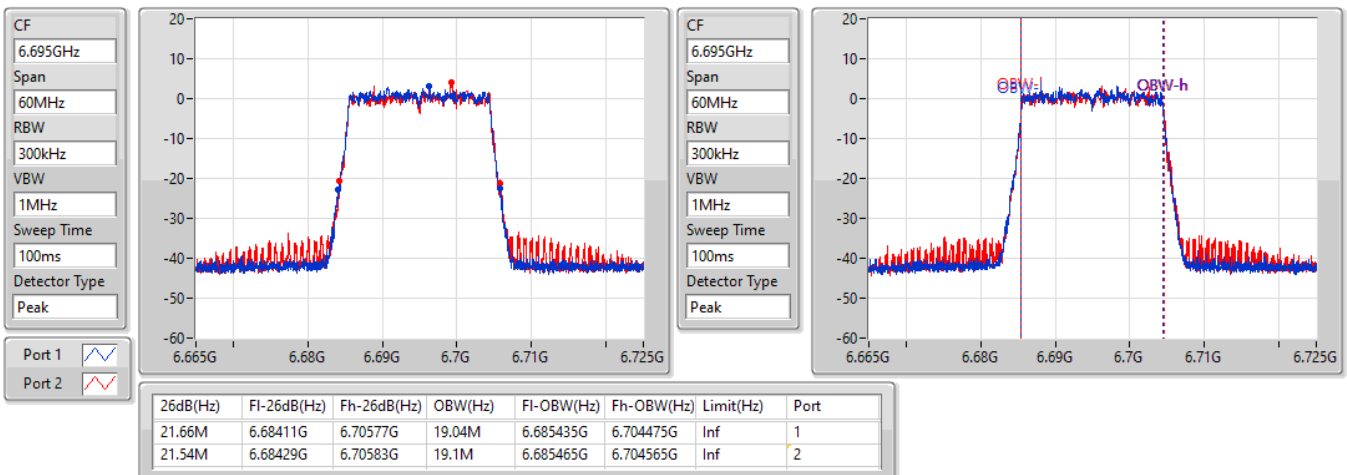


802.11ax HEW20-BF_Nss1,(MCS0)_2TX
EBW
6535MHz

28/06/2021

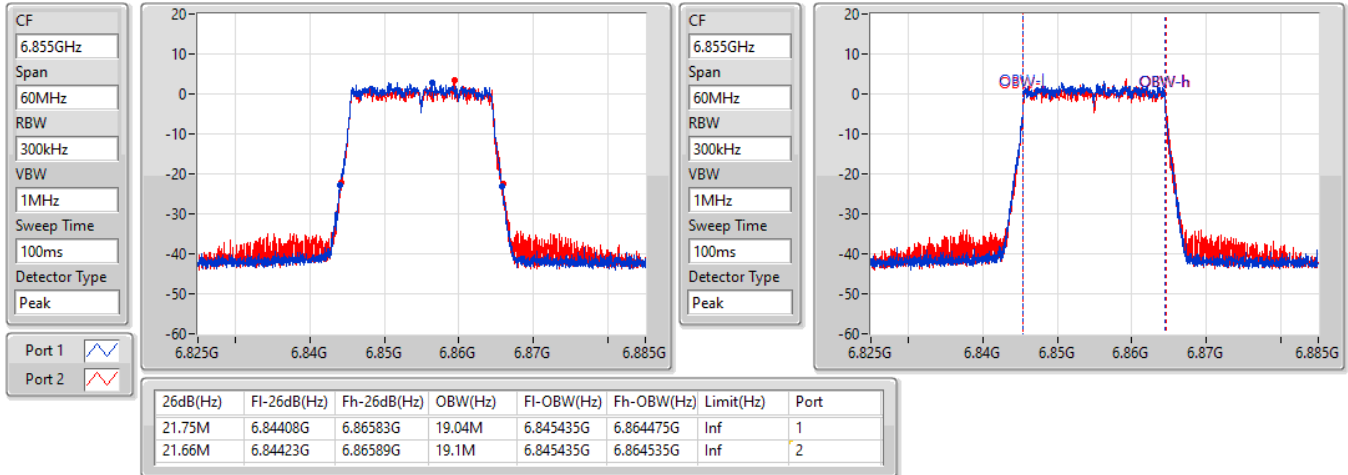

802.11ax HEW20-BF_Nss1,(MCS0)_2TX
EBW
6695MHz

28/06/2021

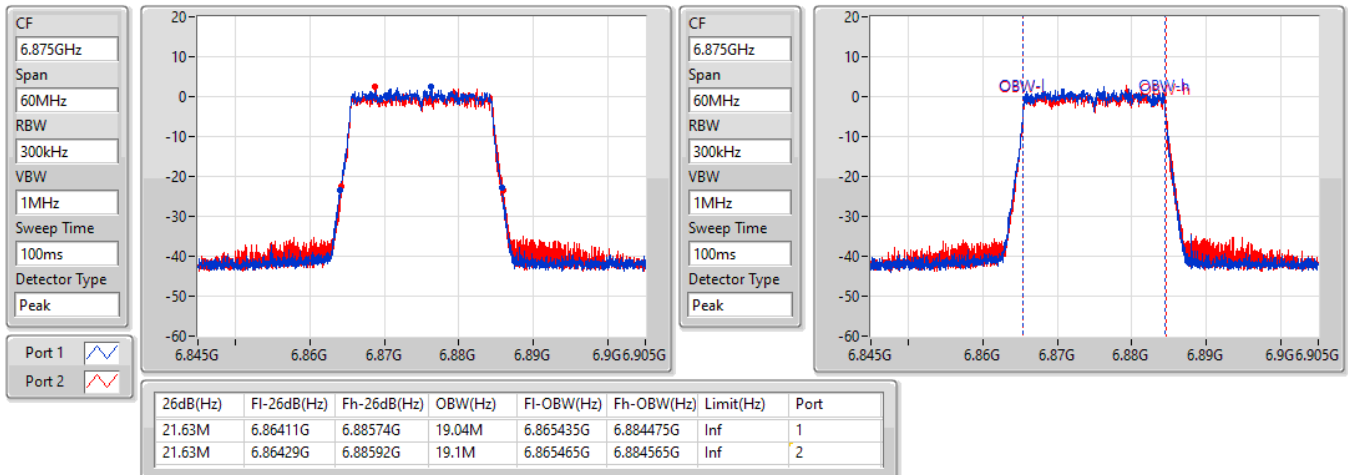


802.11ax HEW20-BF_Nss1,(MCS0)_2TX
EBW
6855MHz

28/06/2021

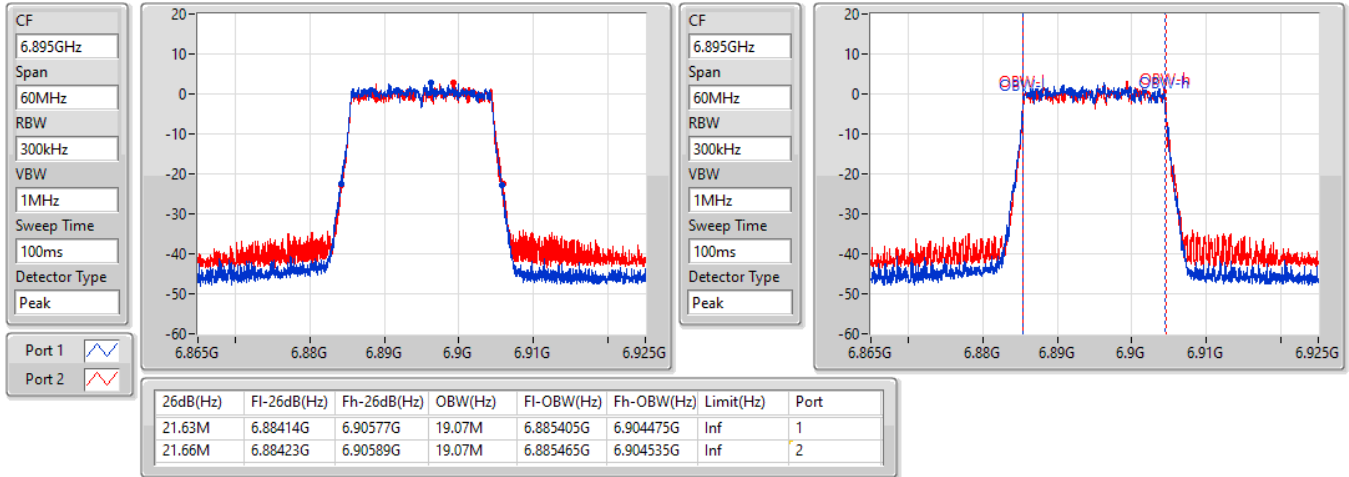

802.11ax HEW20-BF_Nss1,(MCS0)_2TX
EBW
6875MHz

28/06/2021

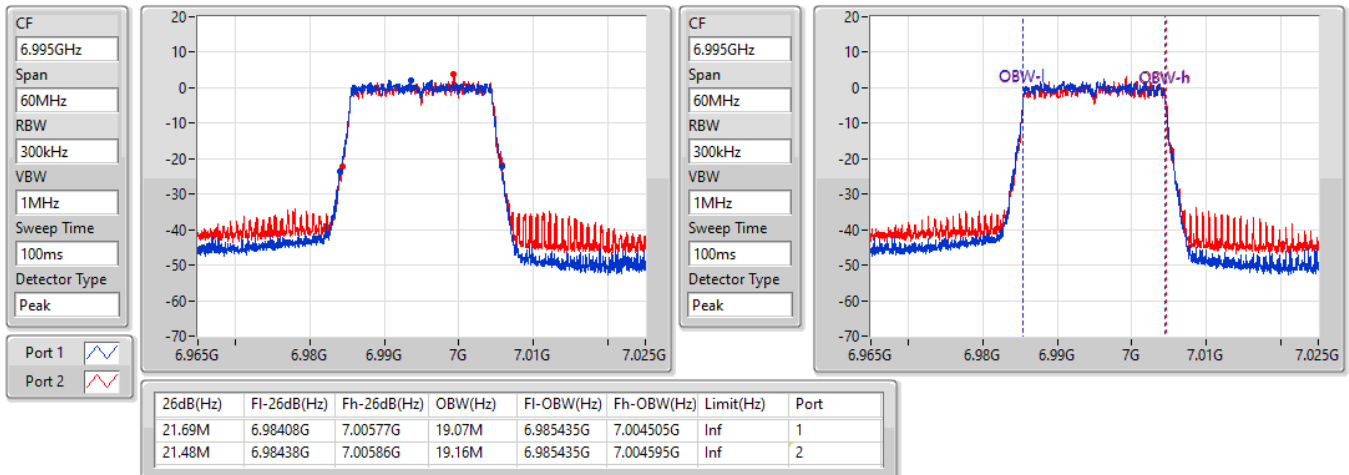


802.11ax HEW20-BF_Nss1,(MCS0)_2TX
EBW
6895MHz

28/06/2021

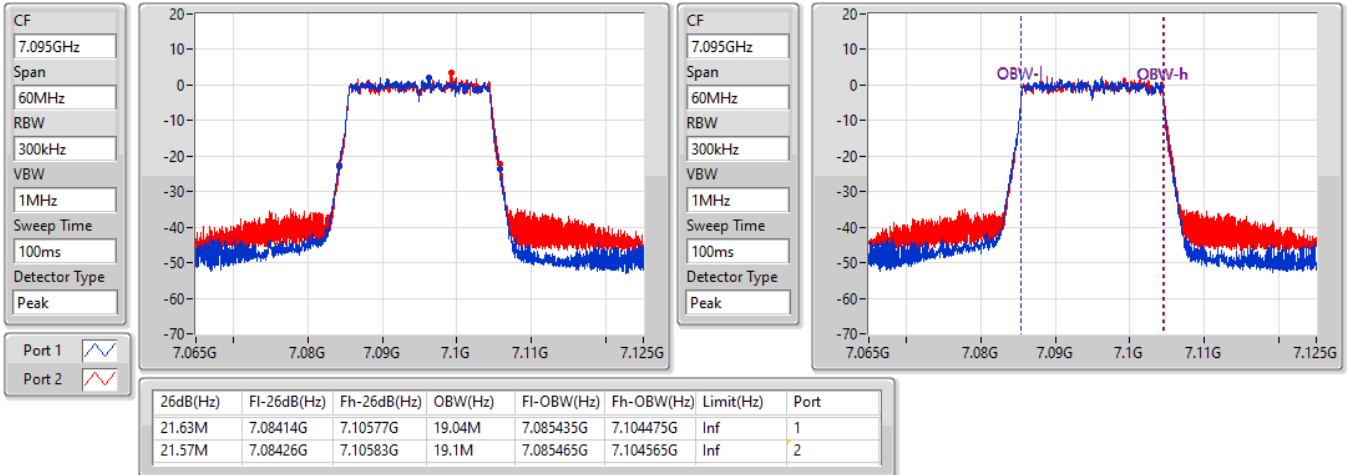

802.11ax HEW20-BF_Nss1,(MCS0)_2TX
EBW
6995MHz

28/06/2021

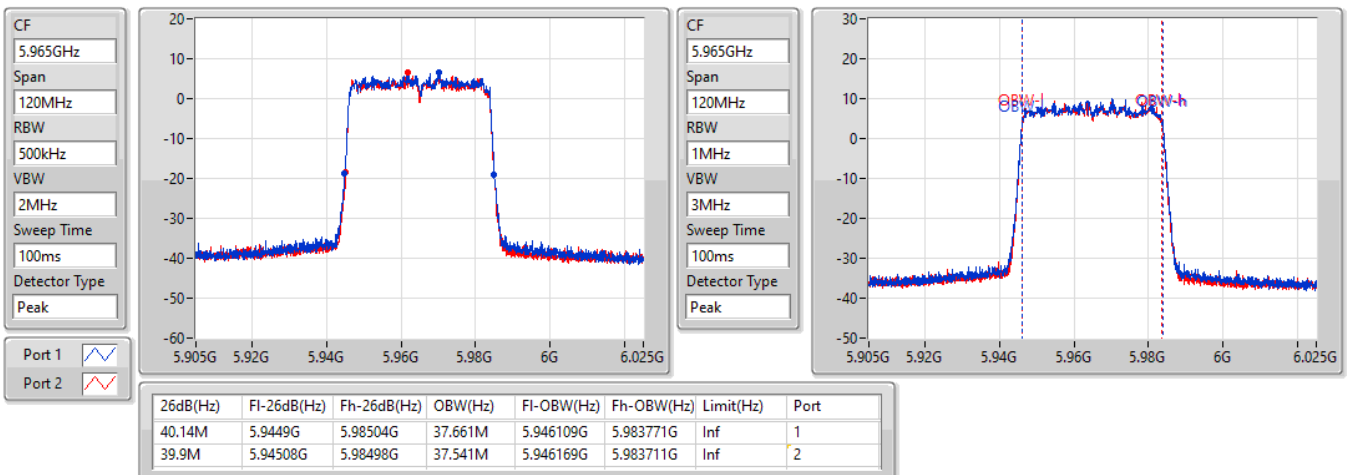


802.11ax HEW20-BF_Nss1,(MCS0)_2TX
EBW
7095MHz

28/06/2021

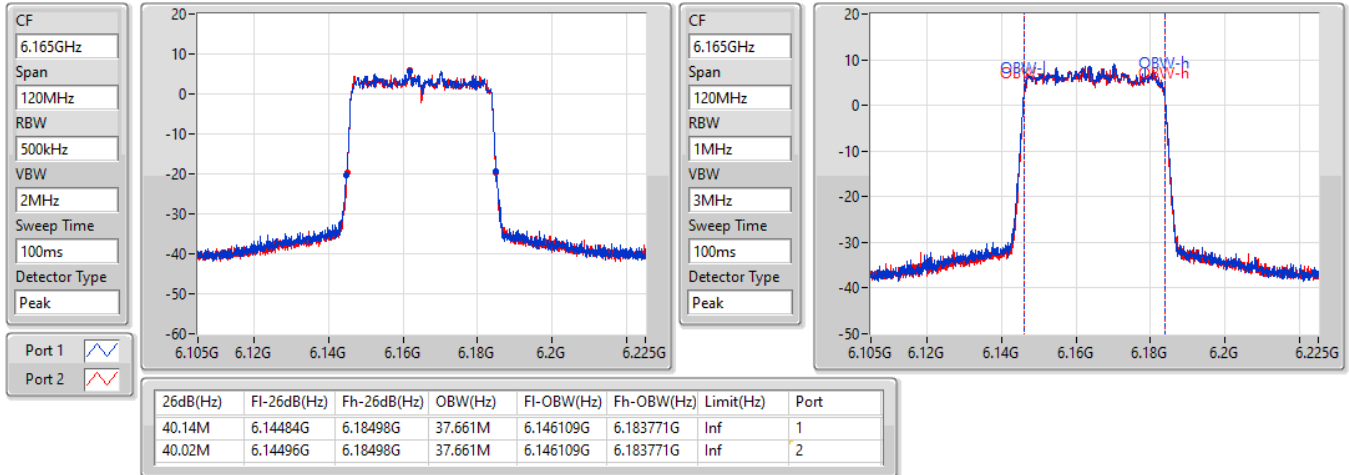

802.11ax HEW40-BF_Nss1,(MCS0)_2TX
EBW
5965MHz

28/06/2021

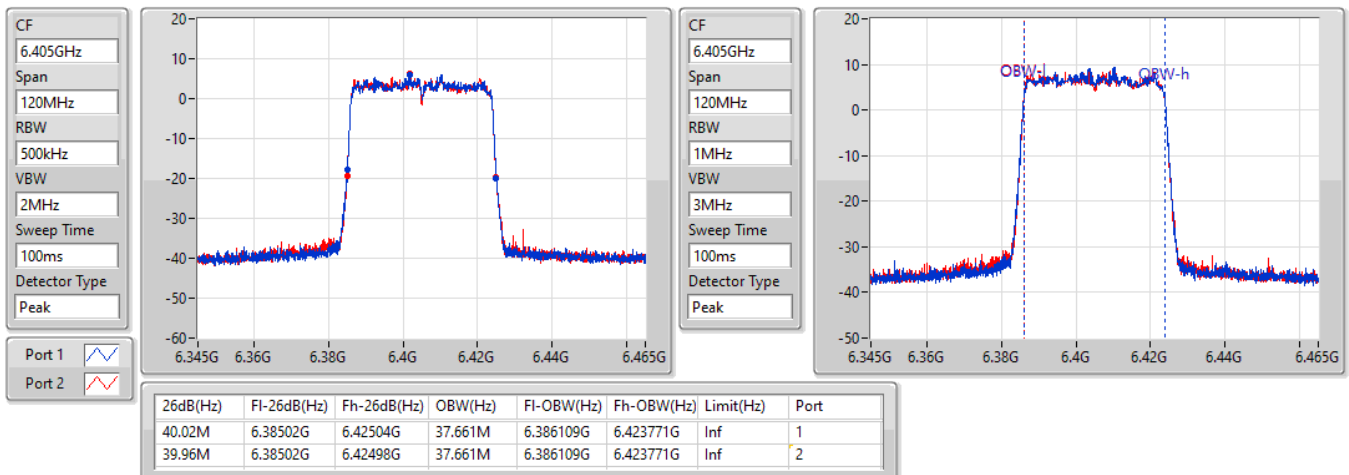


802.11ax HEW40-BF_Nss1,(MCS0)_2TX
EBW
6165MHz

28/06/2021

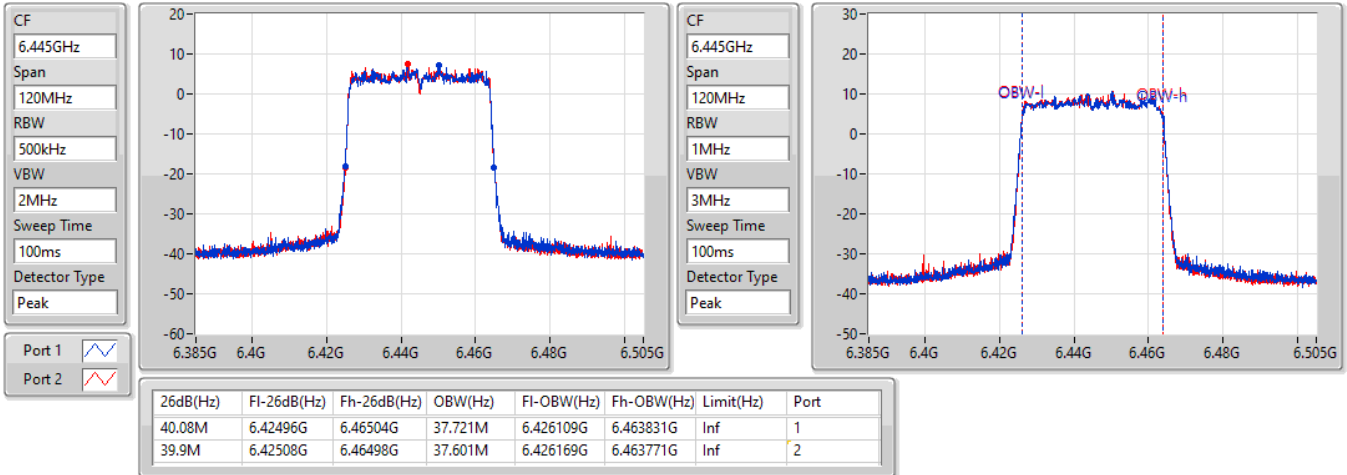

802.11ax HEW40-BF_Nss1,(MCS0)_2TX
EBW
6405MHz

28/06/2021

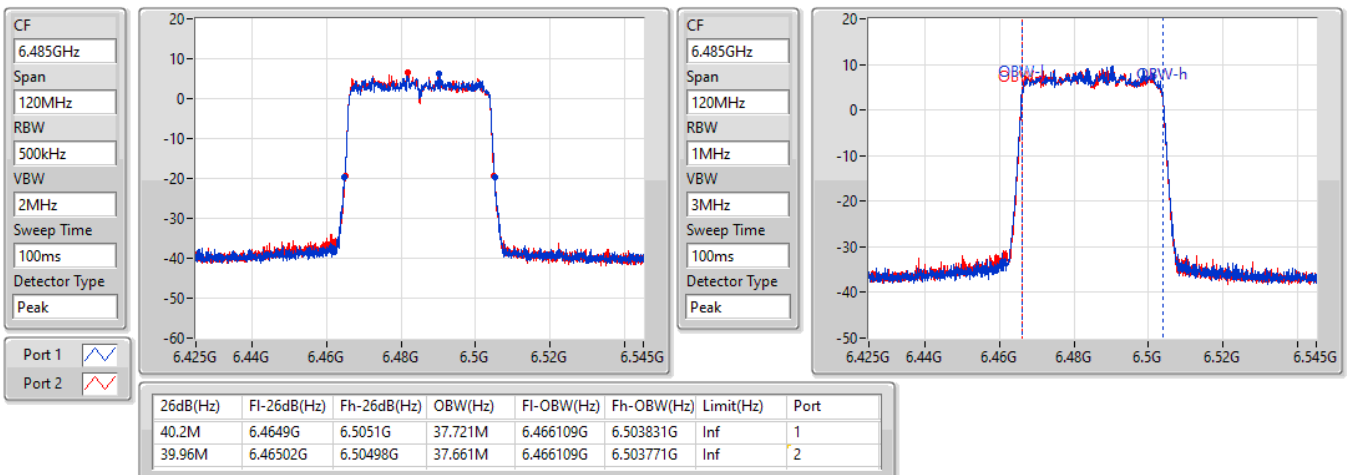


802.11ax HEW40-BF_Nss1,(MCS0)_2TX
EBW
6445MHz

28/06/2021

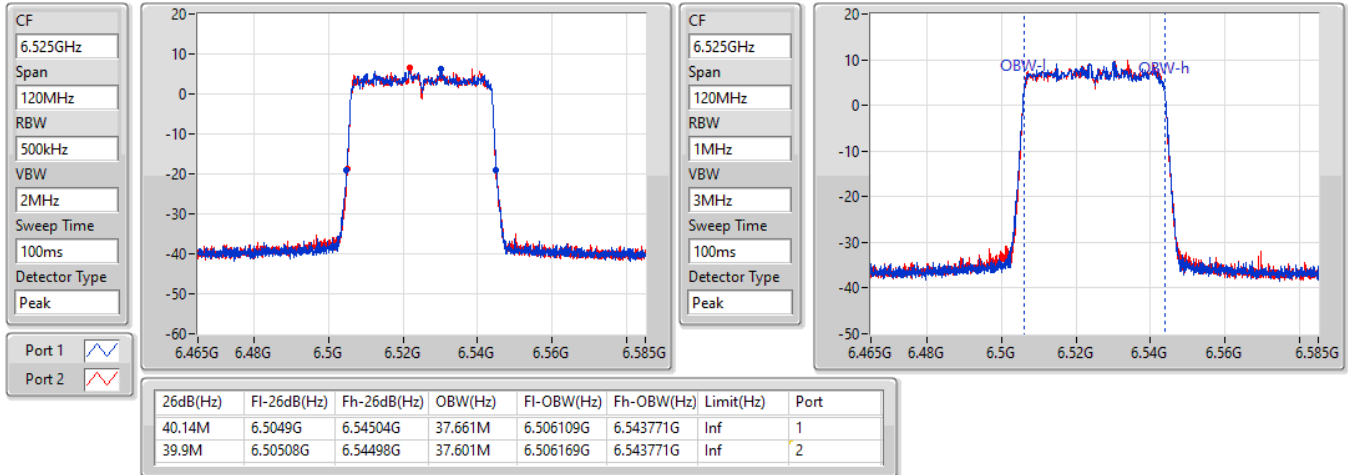

802.11ax HEW40-BF_Nss1,(MCS0)_2TX
EBW
6485MHz

28/06/2021

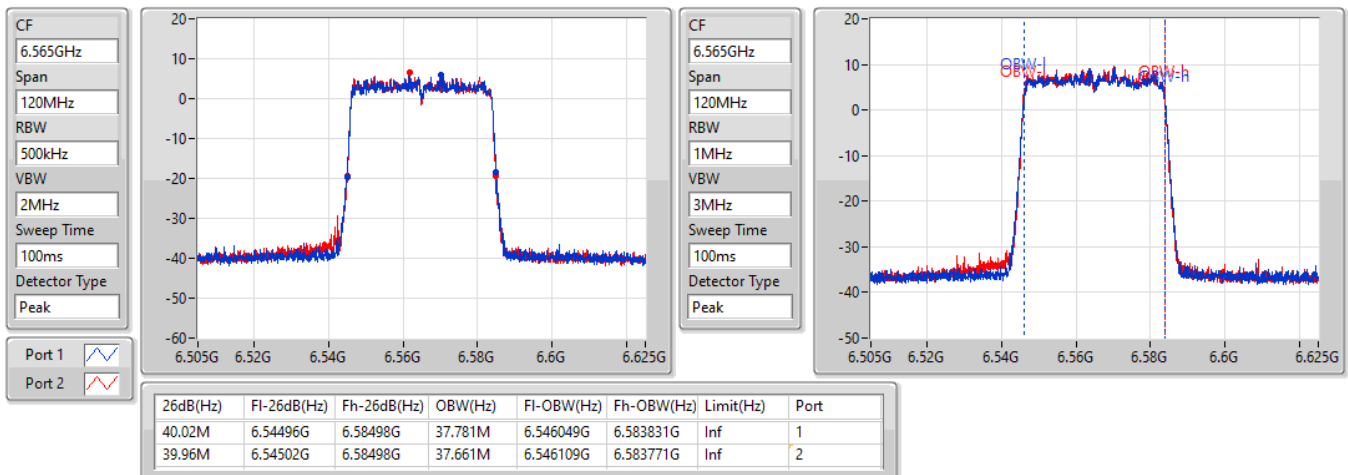


802.11ax HEW40-BF_Nss1,(MCS0)_2TX
EBW
6525MHz

28/06/2021

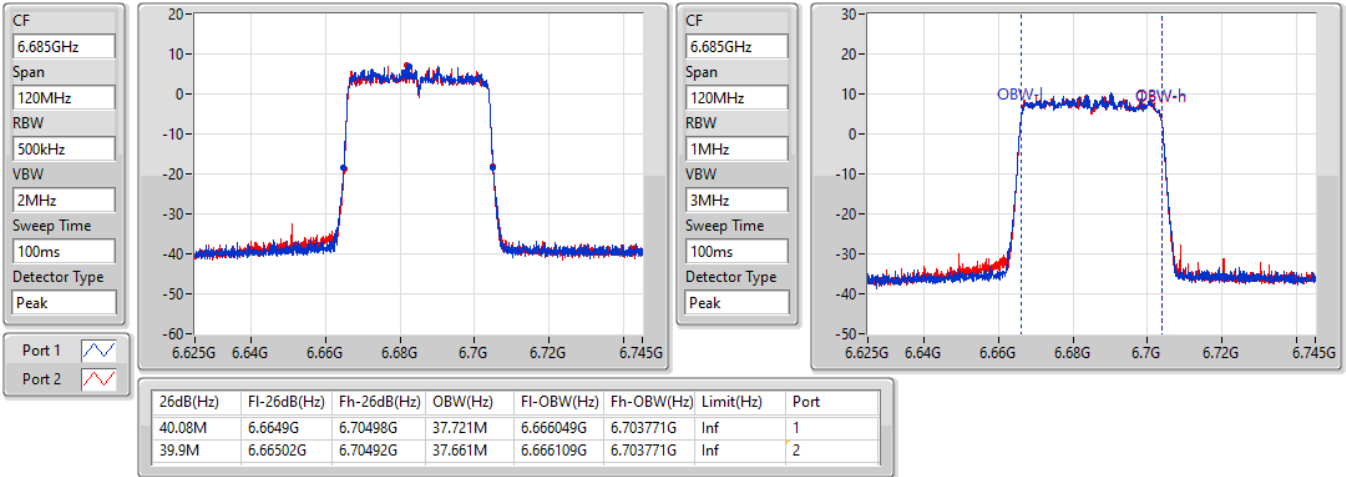

802.11ax HEW40-BF_Nss1,(MCS0)_2TX
EBW
6565MHz

28/06/2021

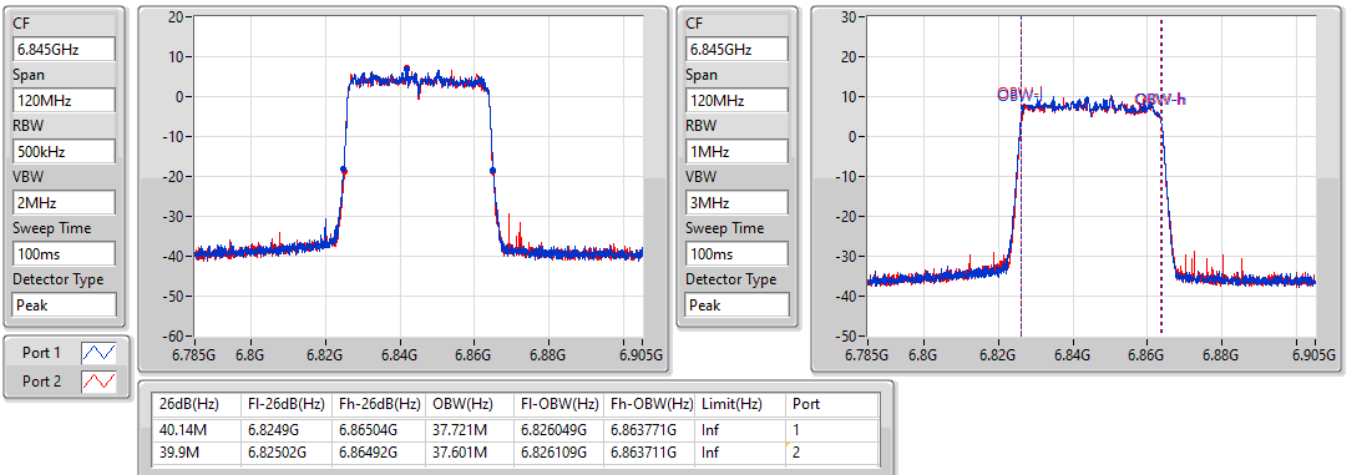


802.11ax HEW40-BF_Nss1,(MCS0)_2TX
EBW
6685MHz

28/06/2021

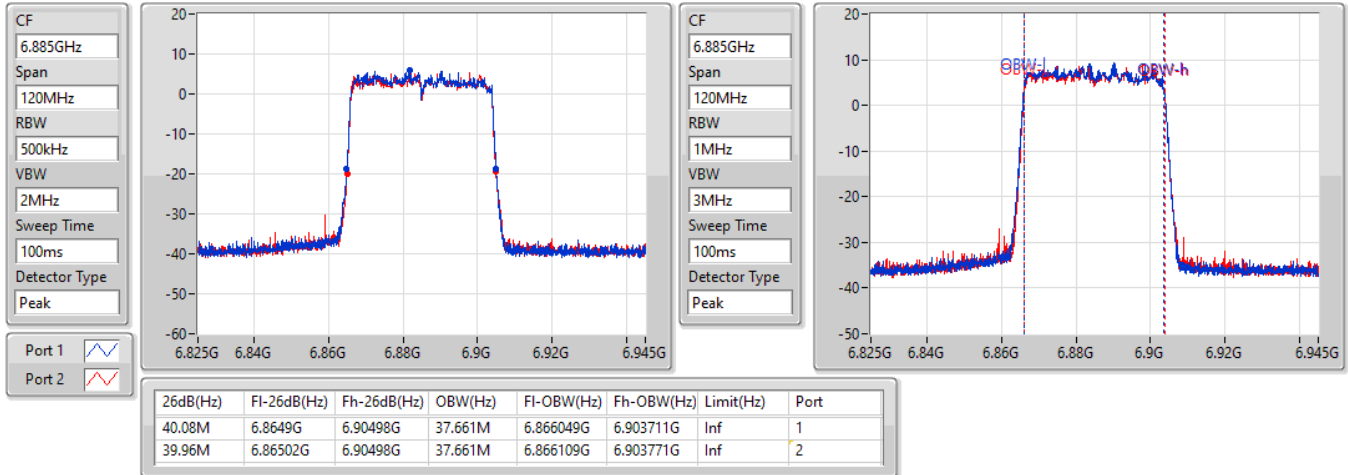

802.11ax HEW40-BF_Nss1,(MCS0)_2TX
EBW
6845MHz

28/06/2021

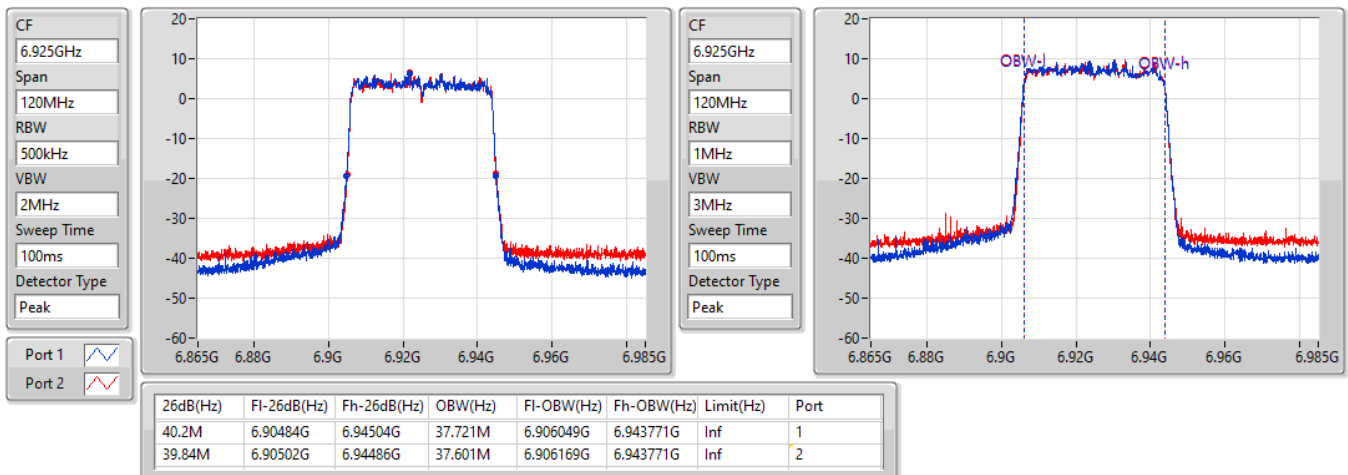


802.11ax HEW40-BF_Nss1,(MCS0)_2TX
EBW
6885MHz

28/06/2021

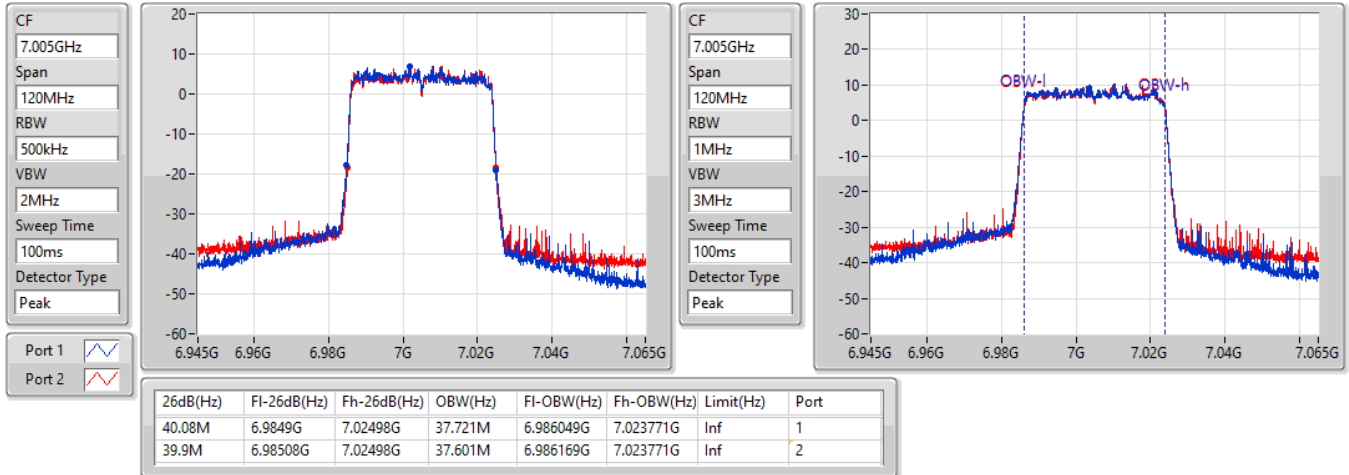

802.11ax HEW40-BF_Nss1,(MCS0)_2TX
EBW
6925MHz

28/06/2021

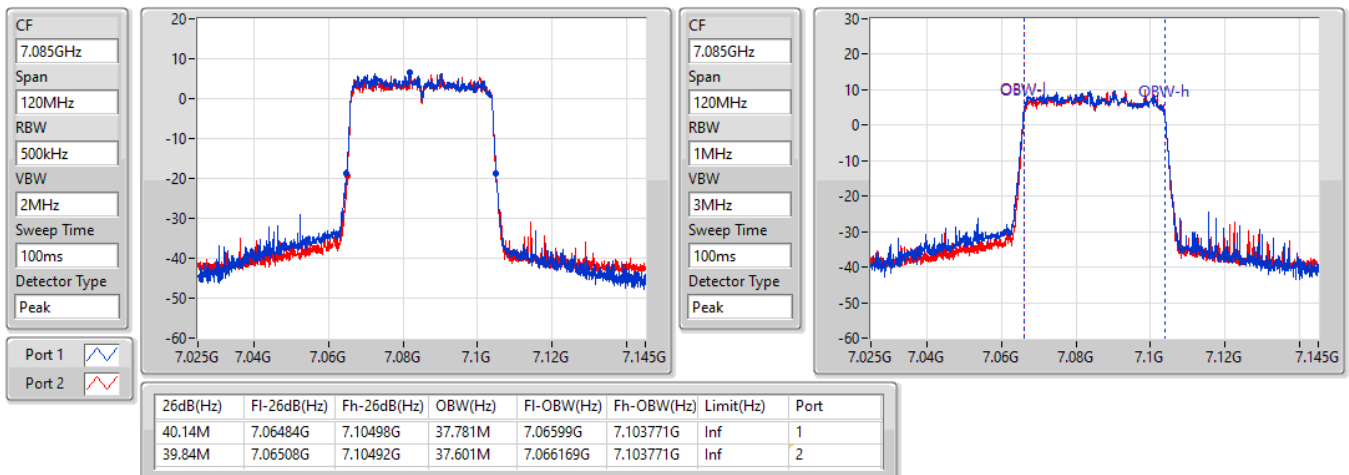


802.11ax HEW40-BF_Nss1,(MCS0)_2TX
EBW
7005MHz

28/06/2021

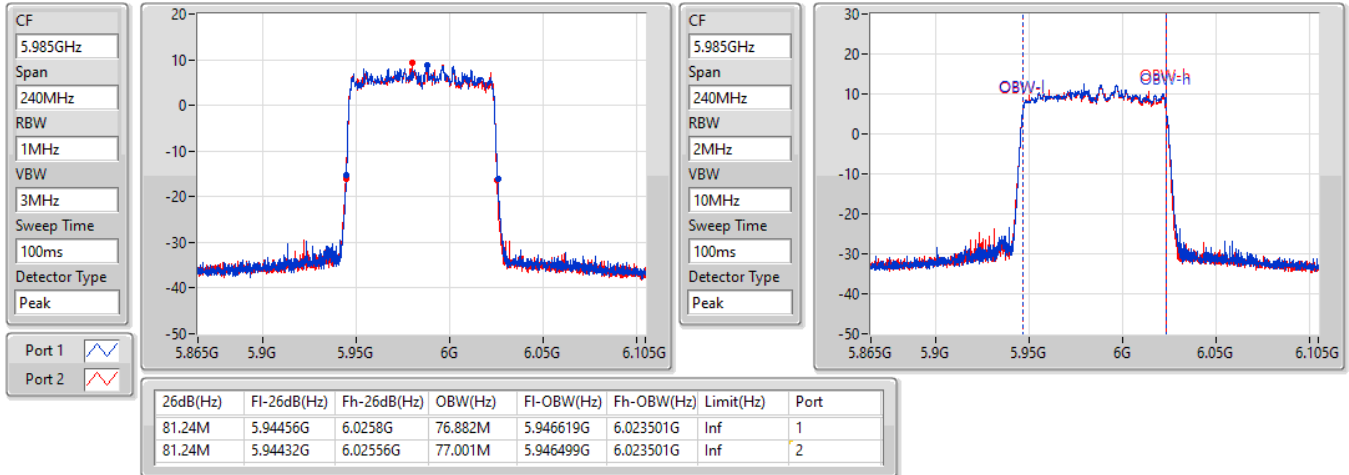

802.11ax HEW40-BF_Nss1,(MCS0)_2TX
EBW
7085MHz

28/06/2021

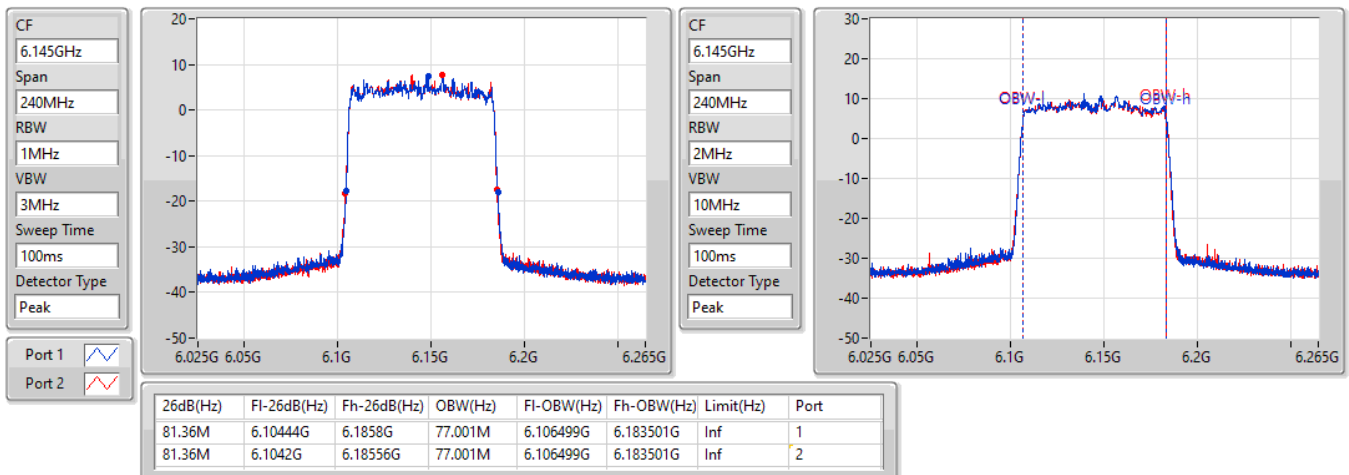


802.11ax HEW80-BF_Nss1,(MCS0)_2TX
EBW
5985MHz

28/06/2021

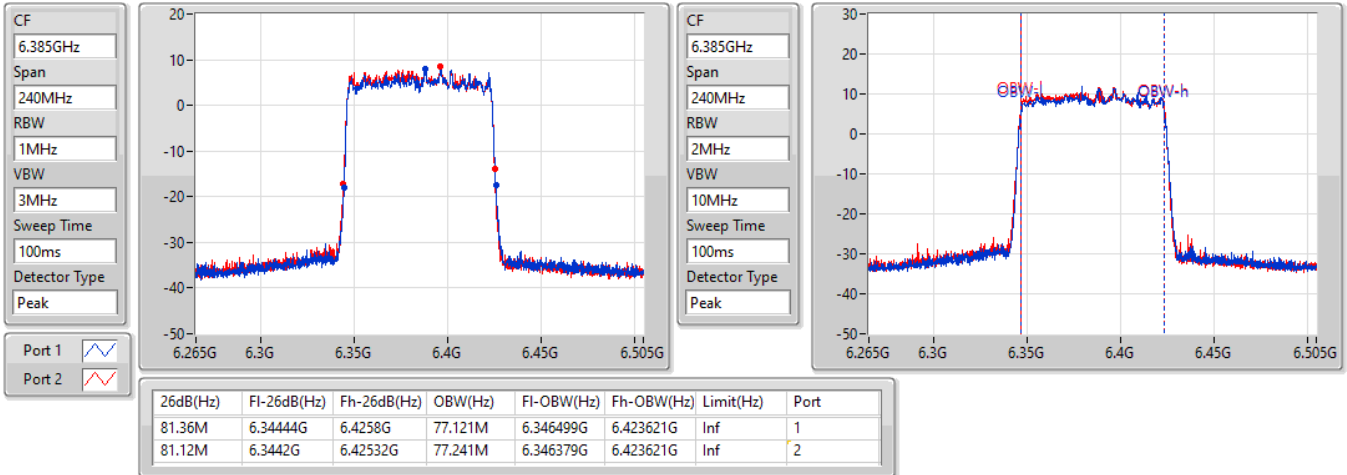

802.11ax HEW80-BF_Nss1,(MCS0)_2TX
EBW
6145MHz

28/06/2021

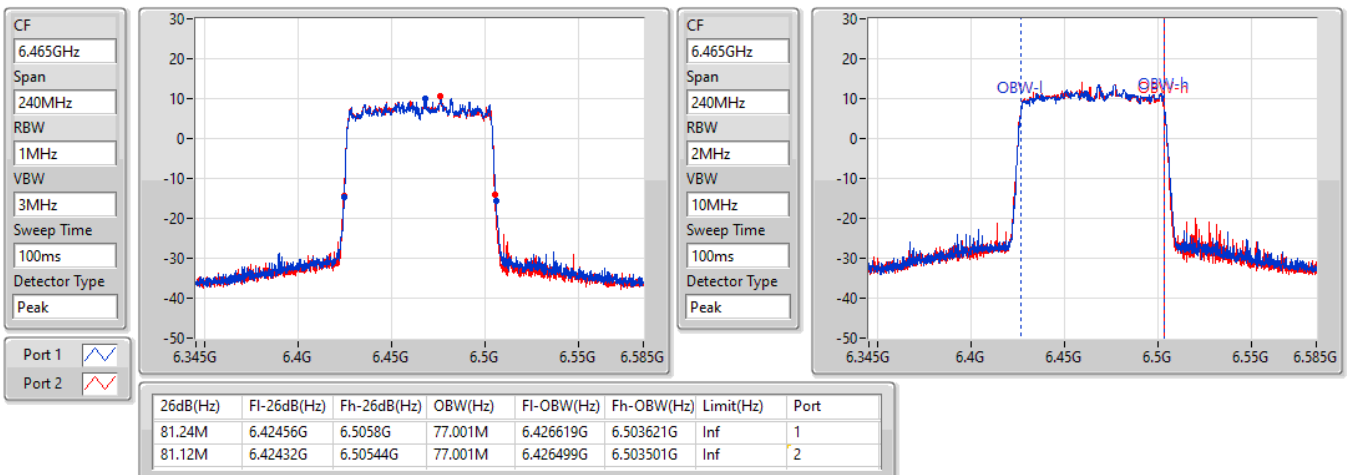


802.11ax HEW80-BF_Nss1,(MCS0)_2TX
EBW
6385MHz

28/06/2021

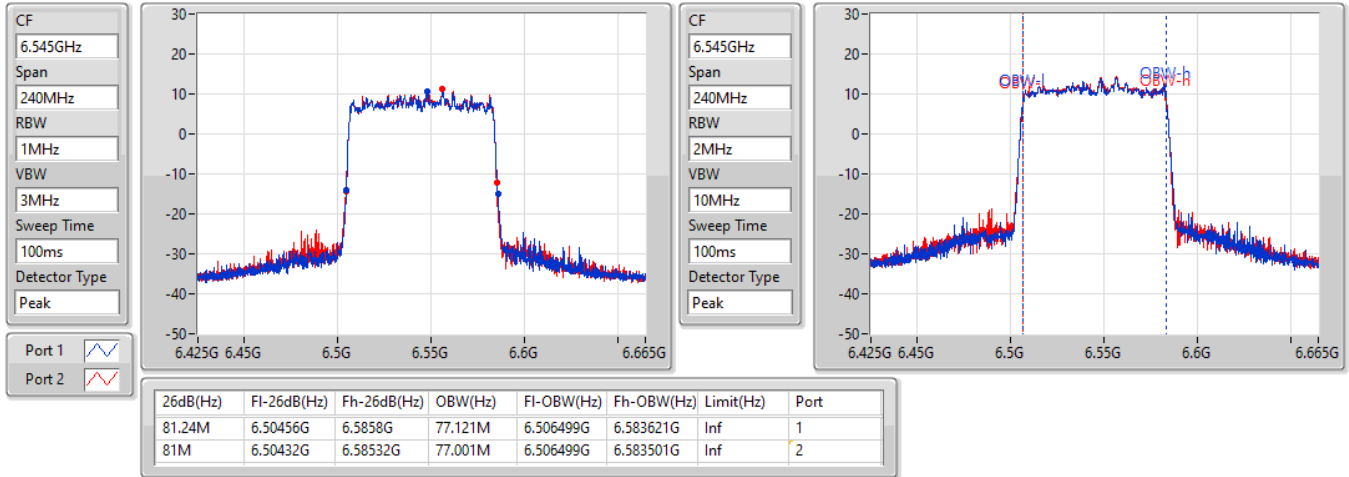

802.11ax HEW80-BF_Nss1,(MCS0)_2TX
EBW
6465MHz

28/06/2021

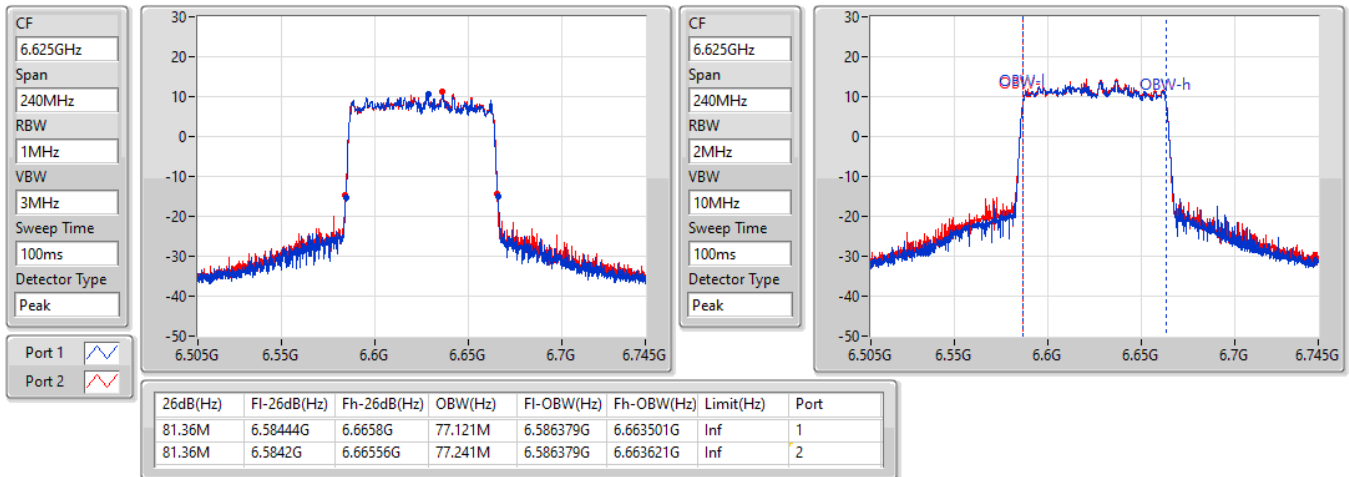


802.11ax HEW80-BF_Nss1,(MCS0)_2TX
EBW
6545MHz

28/06/2021


802.11ax HEW80-BF_Nss1,(MCS0)_2TX
EBW
6625MHz

28/06/2021

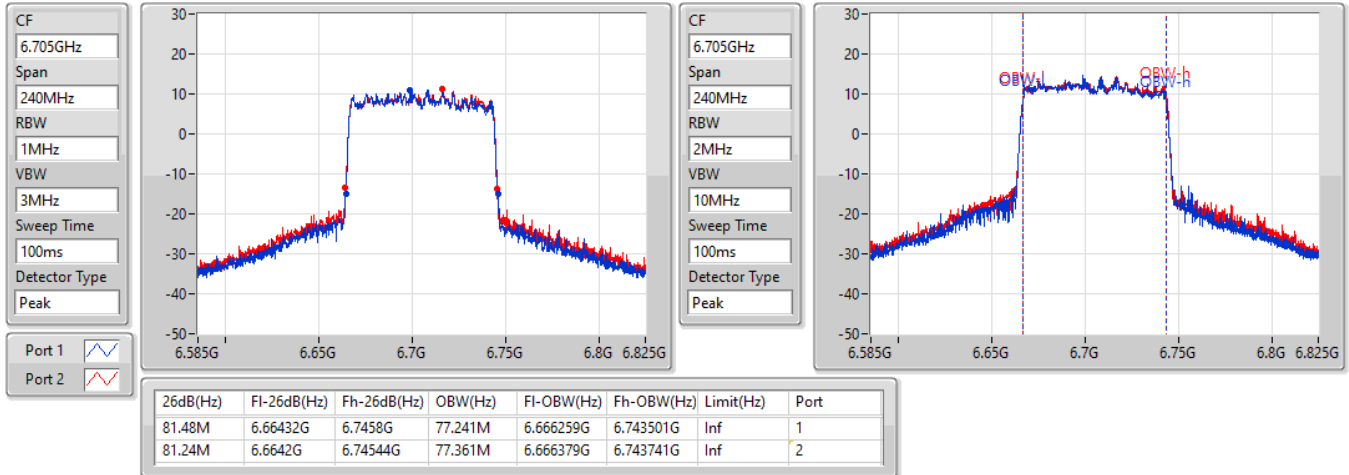


802.11ax HEW80-BF_Nss1,(MCS0)_2TX

EBW

6705MHz

28/06/2021

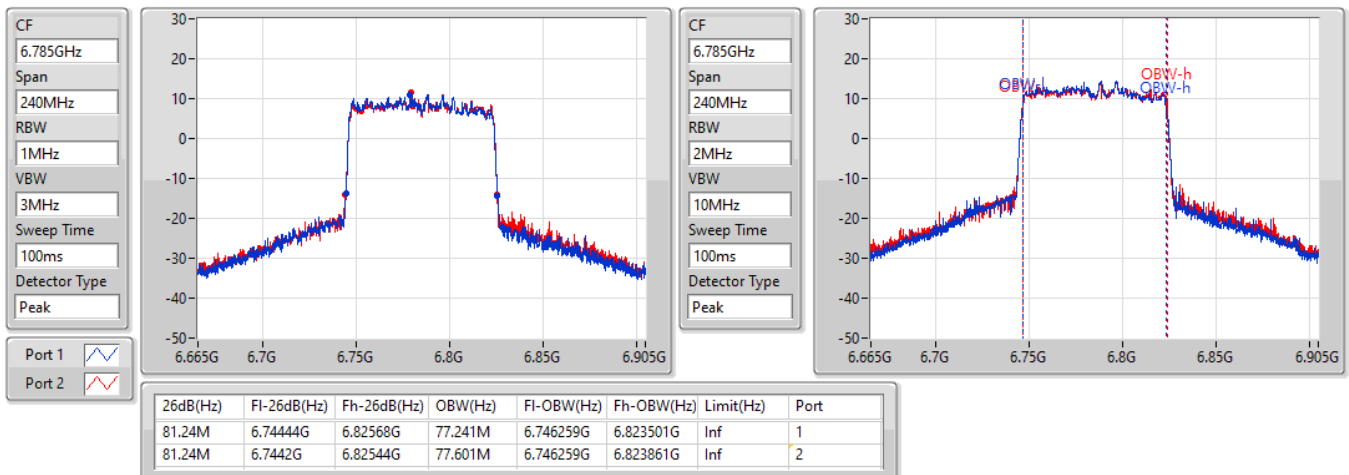


802.11ax HEW80-BF_Nss1,(MCS0)_2TX

EBW

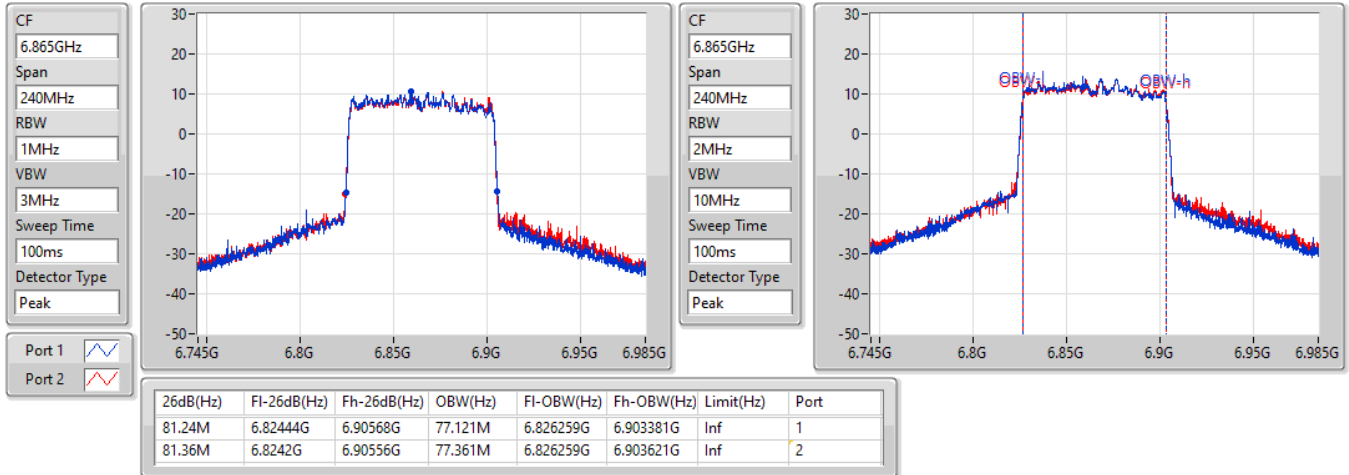
6785MHz

28/06/2021

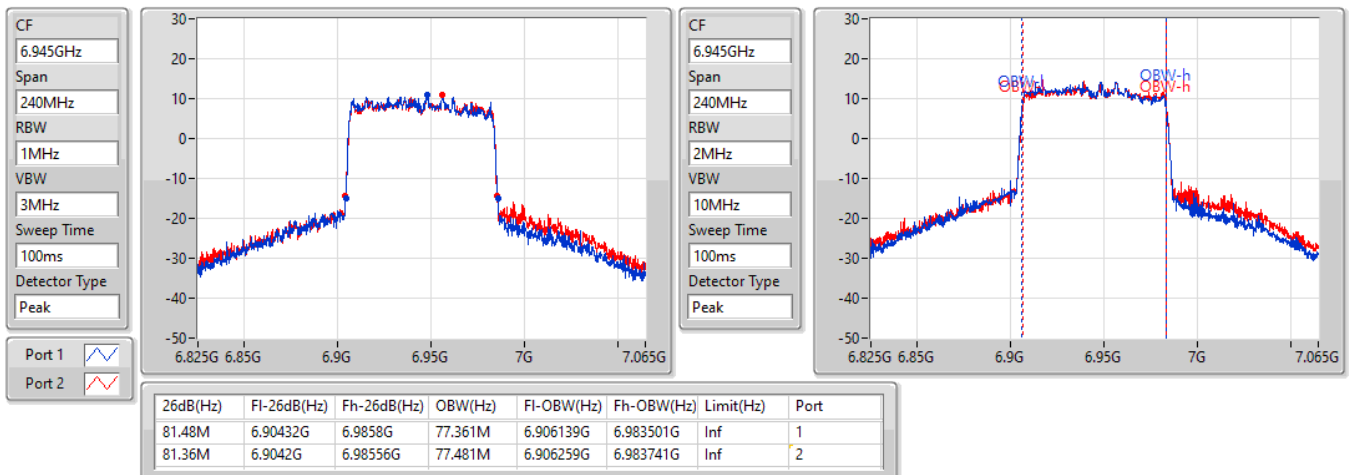


802.11ax HEW80-BF_Nss1,(MCS0)_2TX
EBW
6865MHz

28/06/2021

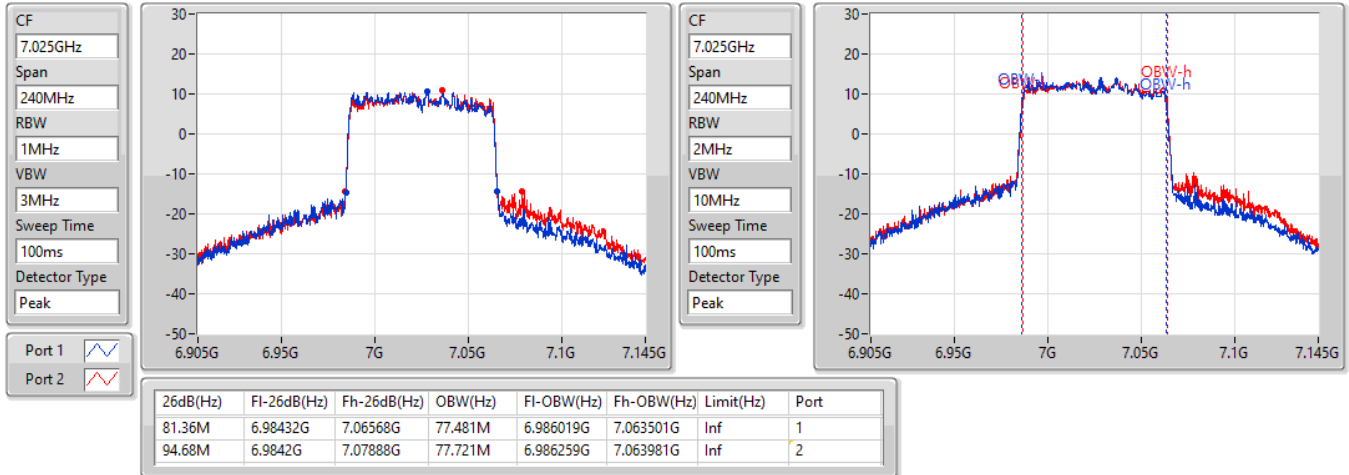

802.11ax HEW80-BF_Nss1,(MCS0)_2TX
EBW
6945MHz

28/06/2021

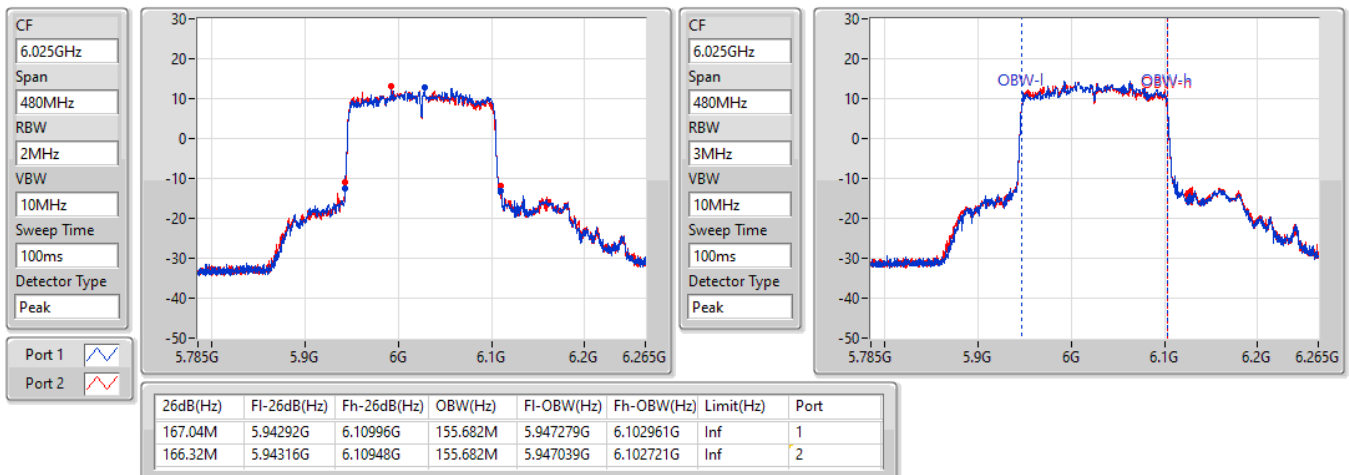


802.11ax HEW80-BF_Nss1,(MCS0)_2TX
EBW
7025MHz

28/06/2021

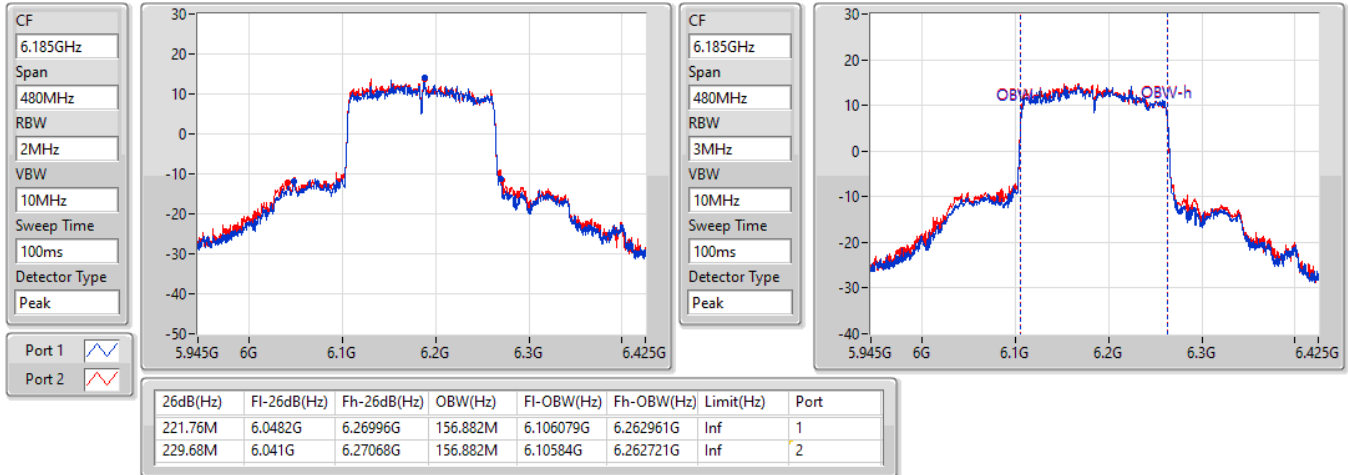

802.11ax HEW160-BF_Nss1,(MCS0)_2TX
EBW
6025MHz

28/06/2021

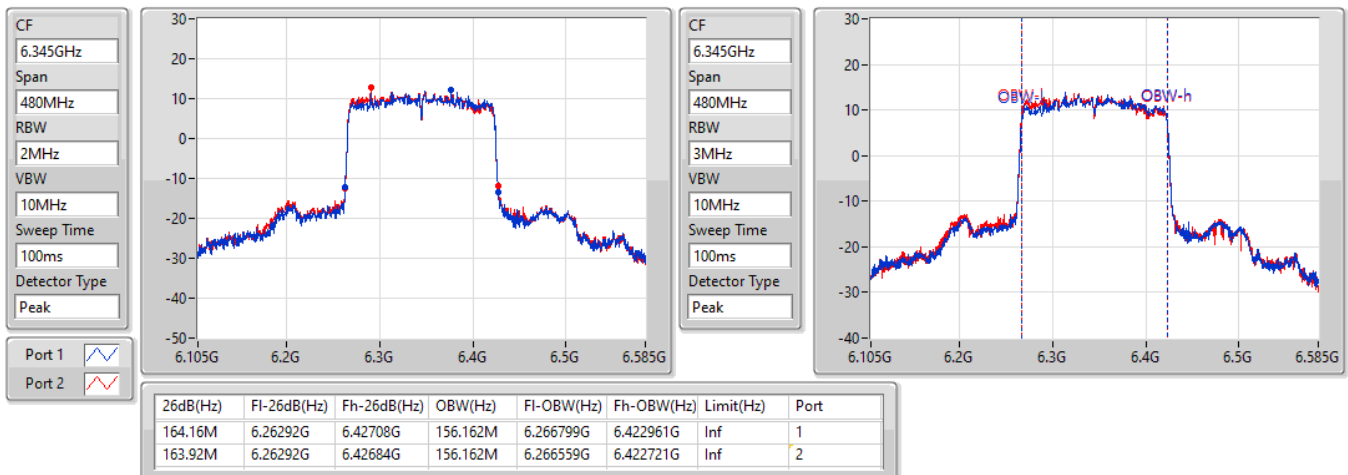


802.11ax HEW160-BF_Nss1,(MCS0)_2TX
EBW
6185MHz

28/06/2021


802.11ax HEW160-BF_Nss1,(MCS0)_2TX
EBW
6345MHz

28/06/2021

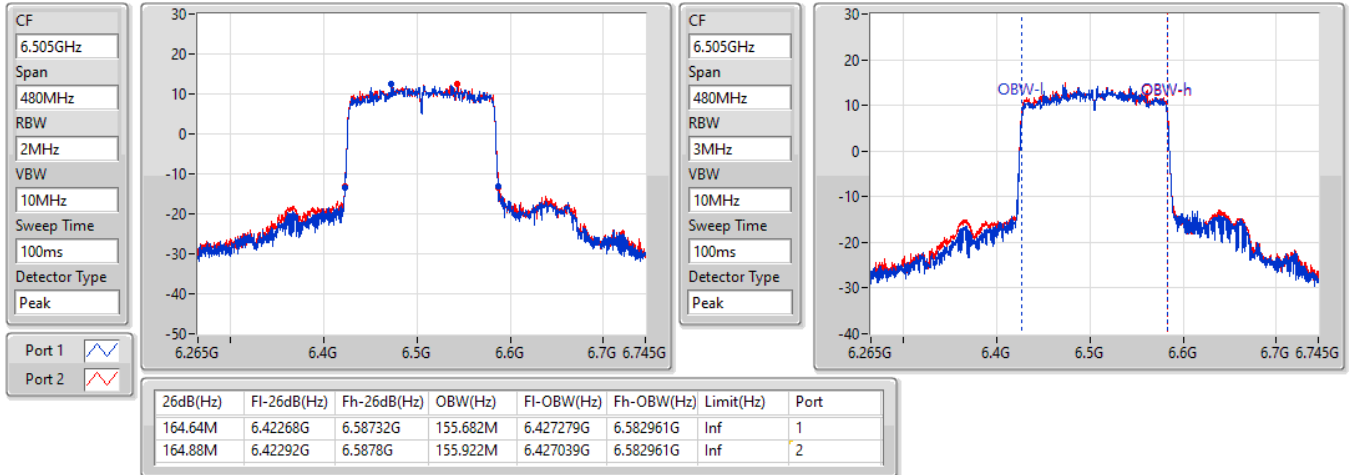


802.11ax HEW160-BF_Nss1,(MCS0)_2TX

EBW

6505MHz

28/06/2021

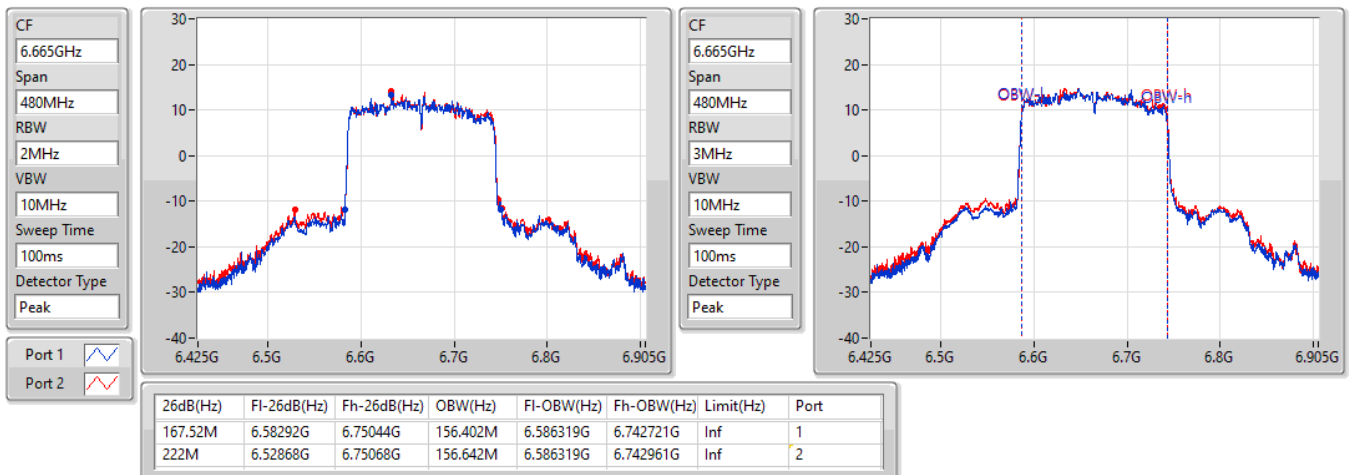


802.11ax HEW160-BF_Nss1,(MCS0)_2TX

EBW

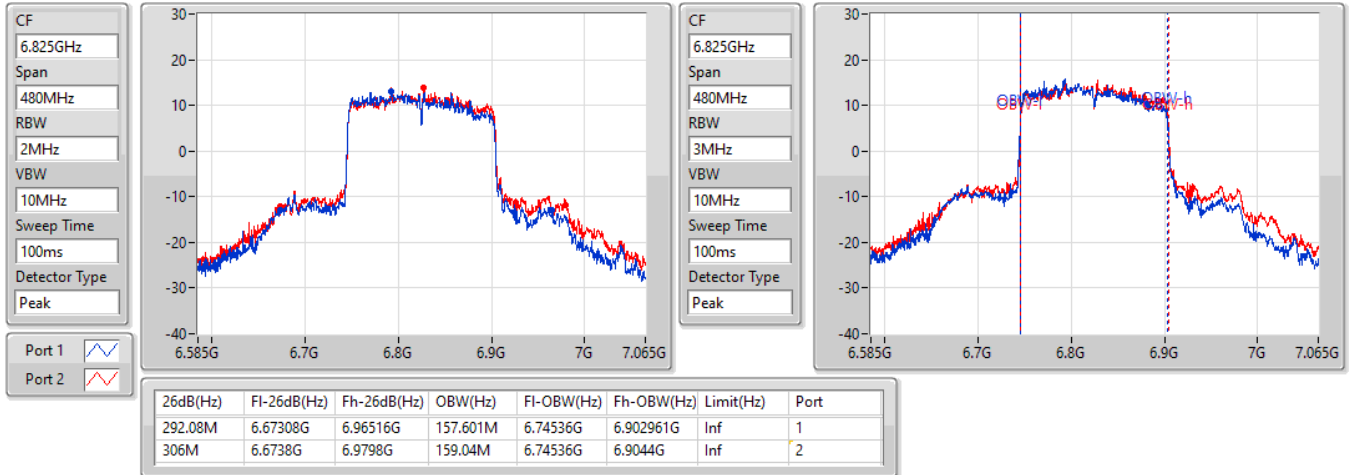
6665MHz

28/06/2021

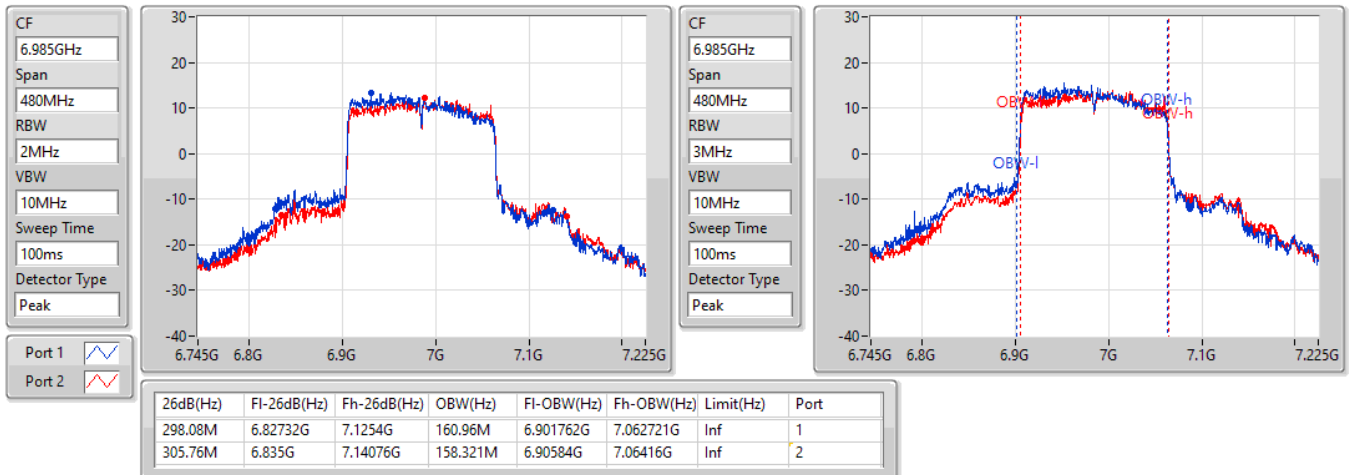


802.11ax HEW160-BF_Nss1,(MCS0)_2TX
EBW
6825MHz

28/06/2021


802.11ax HEW160-BF_Nss1,(MCS0)_2TX
EBW
6985MHz

28/06/2021



**For 2T2S
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_Nss2,(MCS0)_2TX	21.69M	19.1M	19M1D1D	21.51M	18.981M
802.11ax HEW40_Nss2,(MCS0)_2TX	40.2M	37.841M	37M8D1D	39.84M	37.721M
802.11ax HEW80_Nss2,(MCS0)_2TX	101.04M	77.841M	77M8D1D	81.48M	77.481M
802.11ax HEW160_Nss2,(MCS0)_2TX	326.4M	177.271M	177MD1D	260.64M	156.642M
6.425-6.525GHz	-	-	-	-	-
802.11ax HEW20_Nss2,(MCS0)_2TX	21.6M	19.07M	19M1D1D	21.48M	19.01M
802.11ax HEW40_Nss2,(MCS0)_2TX	40.14M	37.841M	37M8D1D	39.78M	37.661M
802.11ax HEW80_Nss2,(MCS0)_2TX	81.96M	77.481M	77M5D1D	81.36M	77.241M
802.11ax HEW160_Nss2,(MCS0)_2TX	316.08M	157.601M	158MD1D	280.32M	156.162M
6.525-6.875GHz	-	-	-	-	-
802.11ax HEW20_Nss2,(MCS0)_2TX	21.66M	19.07M	19M1D1D	21.36M	18.981M
802.11ax HEW40_Nss2,(MCS0)_2TX	40.26M	37.901M	37M9D1D	39.78M	37.781M
802.11ax HEW80_Nss2,(MCS0)_2TX	147M	78.081M	78M1D1D	81.24M	77.121M
802.11ax HEW160_Nss2,(MCS0)_2TX	390.24M	232.444M	232MD1D	283.2M	156.882M
6.875-7.125GHz	-	-	-	-	-
802.11ax HEW20_Nss2,(MCS0)_2TX	21.63M	19.07M	19M1D1D	21.51M	18.981M
802.11ax HEW40_Nss2,(MCS0)_2TX	42M	37.901M	37M9D1D	39.84M	37.721M
802.11ax HEW80_Nss2,(MCS0)_2TX	160.8M	79.04M	79M0D1D	84.6M	77.481M
802.11ax HEW160_Nss2,(MCS0)_2TX	324.48M	157.361M	157MD1D	300.96M	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

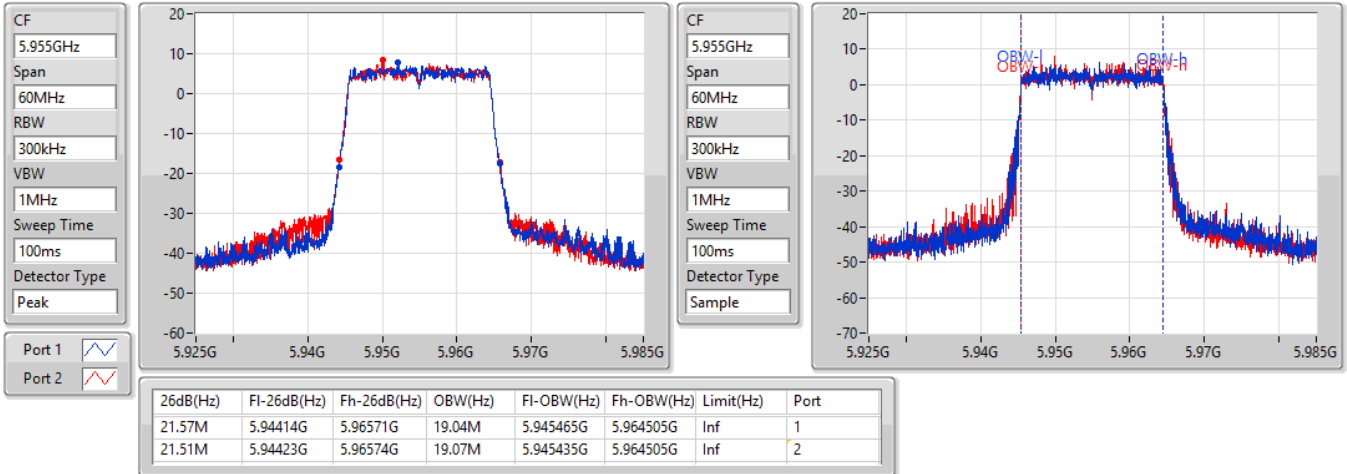
Result

Mode	Result	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
802.11ax HEW20_Nss2,(MCS0)_2TX	-	-	-	-	-
5955MHz	Pass	21.57M	19.04M	21.51M	19.07M
6175MHz	Pass	21.63M	19.01M	21.6M	19.1M
6415MHz	Pass	21.6M	18.981M	21.69M	18.981M
6435MHz	Pass	21.57M	19.04M	21.48M	19.07M
6475MHz	Pass	21.48M	19.04M	21.51M	19.01M
6515MHz	Pass	21.6M	19.04M	21.54M	19.04M
6535MHz	Pass	21.66M	19.01M	21.57M	19.04M
6695MHz	Pass	21.6M	19.04M	21.48M	19.07M
6855MHz	Pass	21.48M	18.981M	21.45M	19.07M
6875MHz Straddle 6.525-6.875GHz	Pass	21.54M	19.04M	21.36M	19.04M
6895MHz	Pass	21.57M	19.01M	21.57M	19.04M
6995MHz	Pass	21.63M	18.981M	21.57M	19.07M
7095MHz	Pass	21.54M	19.04M	21.51M	19.04M
802.11ax HEW40_Nss2,(MCS0)_2TX	-	-	-	-	-
5965MHz	Pass	39.84M	37.781M	40.14M	37.721M
6165MHz	Pass	39.9M	37.841M	40.08M	37.721M
6405MHz	Pass	39.9M	37.721M	40.2M	37.781M
6445MHz	Pass	39.78M	37.661M	40.14M	37.661M
6485MHz	Pass	39.96M	37.721M	39.78M	37.841M
6525MHz Straddle 6.425-6.525GHz	Pass	40.08M	37.721M	39.96M	37.781M
6565MHz	Pass	39.78M	37.781M	40.08M	37.841M
6685MHz	Pass	39.9M	37.781M	40.14M	37.781M
6845MHz	Pass	39.78M	37.901M	40.14M	37.781M
6885MHz Straddle 6.525-6.875GHz	Pass	40.26M	37.841M	39.96M	37.841M
6925MHz	Pass	39.96M	37.901M	40.14M	37.721M
7005MHz	Pass	39.84M	37.841M	40.08M	37.901M
7085MHz	Pass	40.26M	37.901M	42M	37.841M
802.11ax HEW80_Nss2,(MCS0)_2TX	-	-	-	-	-
5985MHz	Pass	81.48M	77.481M	90.24M	77.721M
6145MHz	Pass	85.92M	77.841M	101.04M	77.841M
6385MHz	Pass	81.48M	77.721M	81.48M	77.481M
6465MHz	Pass	81.48M	77.361M	81.36M	77.481M
6545MHz Straddle 6.425-6.525GHz	Pass	81.96M	77.481M	81.48M	77.241M
6625MHz	Pass	81.6M	77.121M	81.24M	77.481M
6705MHz	Pass	81.6M	77.601M	118.8M	78.081M
6785MHz	Pass	81.48M	77.481M	84M	77.481M
6865MHz Straddle 6.525-6.875GHz	Pass	147M	77.961M	141.24M	77.721M
6945MHz	Pass	84.6M	77.481M	87.12M	77.841M
7025MHz	Pass	109.68M	78.321M	160.8M	79.04M
802.11ax HEW160_Nss2,(MCS0)_2TX	-	-	-	-	-
6025MHz	Pass	260.64M	156.642M	273.6M	156.642M
6185MHz	Pass	321.12M	174.633M	326.4M	177.271M
6345MHz	Pass	312.48M	157.121M	324.72M	160.96M
6505MHz Straddle 6.425-6.525GHz	Pass	316.08M	157.601M	280.32M	156.162M
6665MHz	Pass	283.2M	156.882M	333.36M	161.679M
6825MHz Straddle 6.525-6.875GHz	Pass	390.24M	232.444M	317.52M	160M
6985MHz	Pass	300.96M	156.402M	324.48M	157.361M

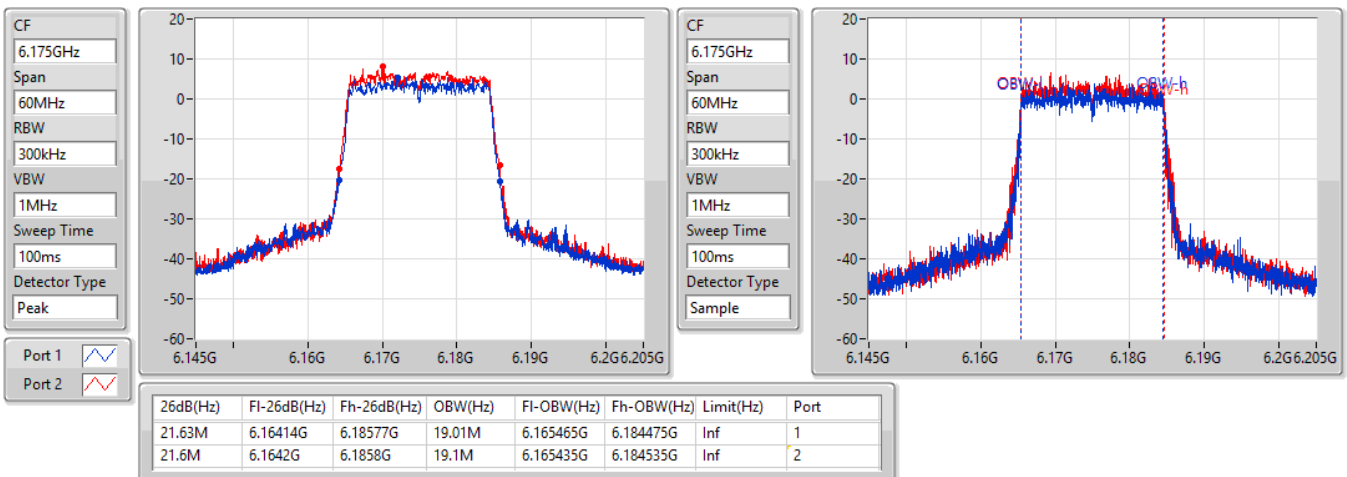
Port X-N dB = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band
Port X-OBW = Port X 99% occupied bandwidth

802.11ax HEW20_Nss2,(MCS0)_2TX
EBW
5955MHz

17/06/2021

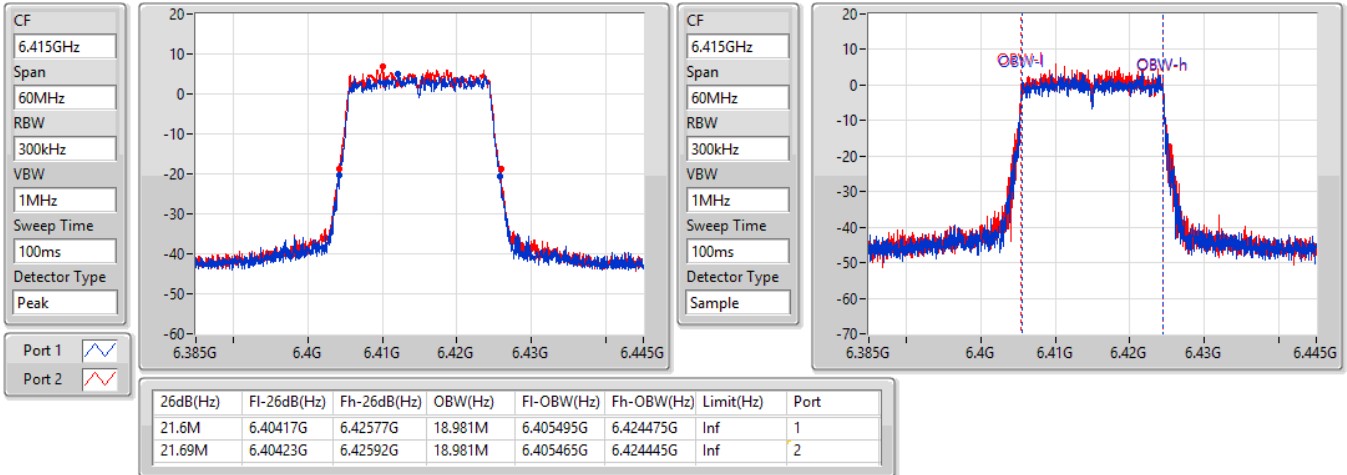

802.11ax HEW20_Nss2,(MCS0)_2TX
EBW
6175MHz

17/06/2021

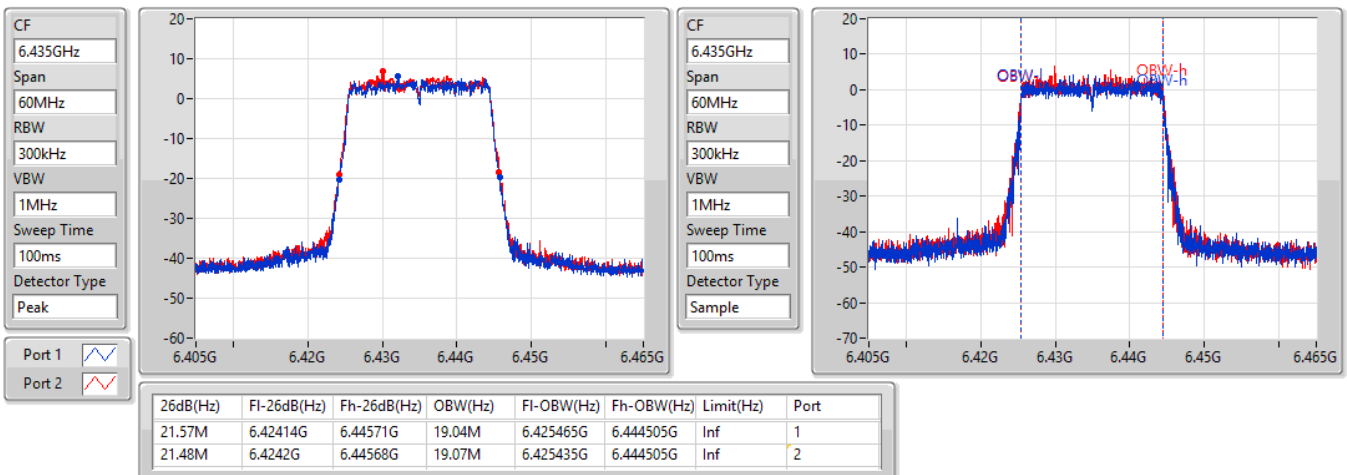


802.11ax HEW20_Nss2,(MCS0)_2TX
EBW
6415MHz

17/06/2021

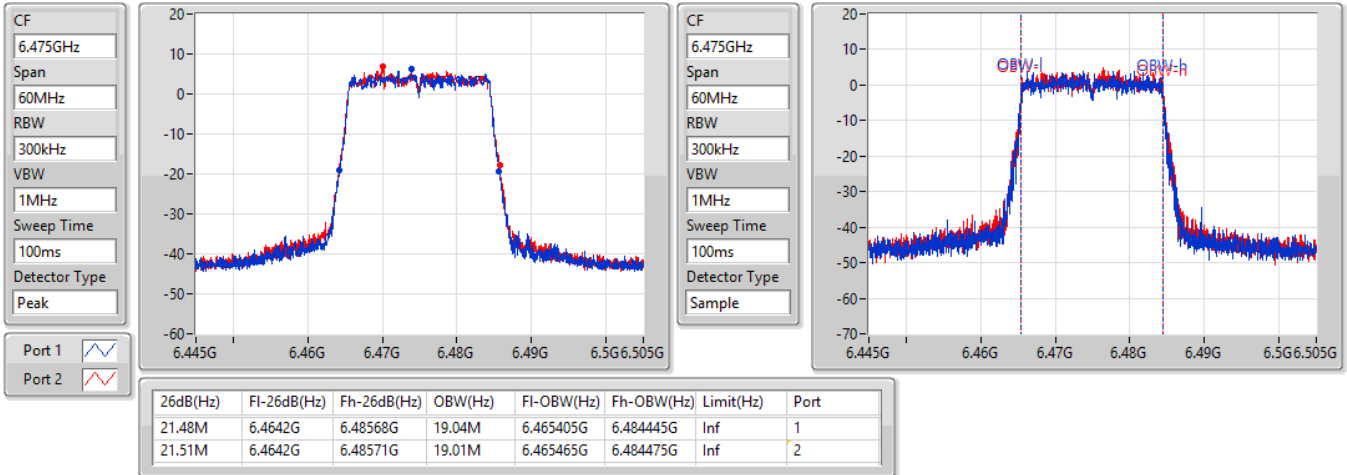

802.11ax HEW20_Nss2,(MCS0)_2TX
EBW
6435MHz

17/06/2021

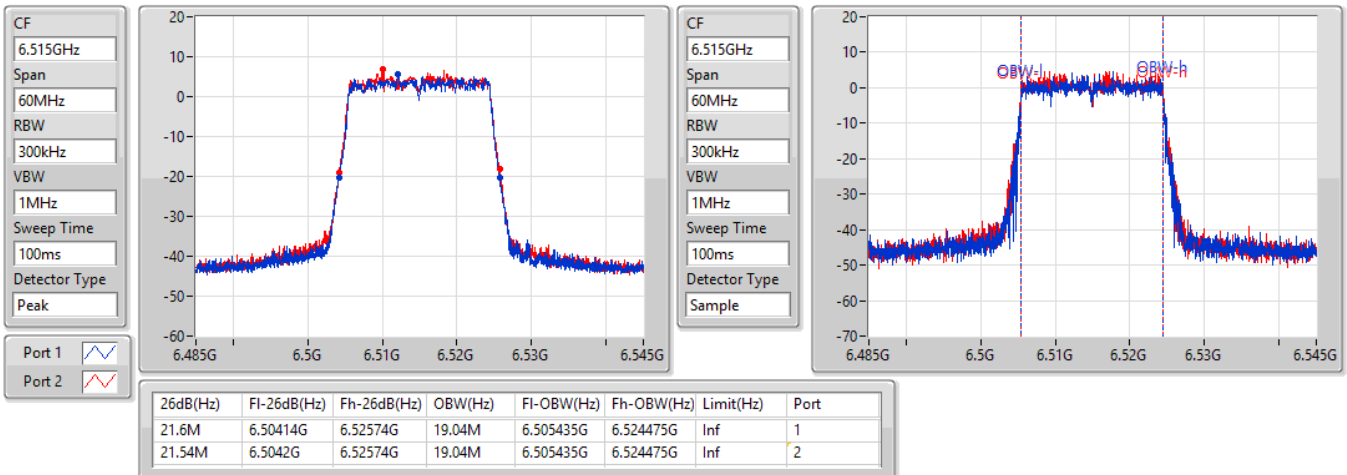


802.11ax HEW20_Nss2,(MCS0)_2TX
EBW
6475MHz

17/06/2021

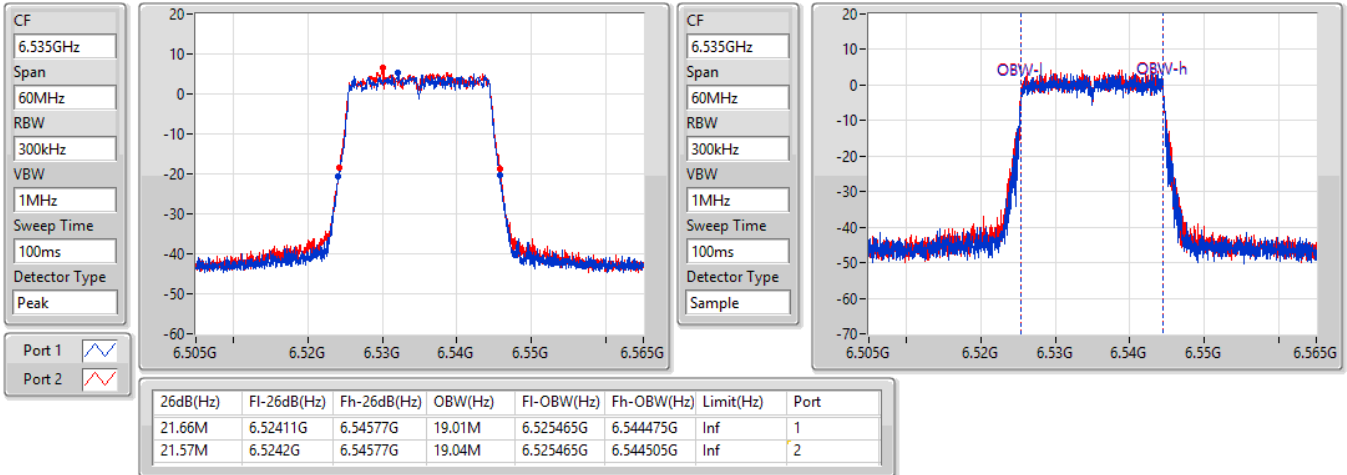

802.11ax HEW20_Nss2,(MCS0)_2TX
EBW
6515MHz

17/06/2021

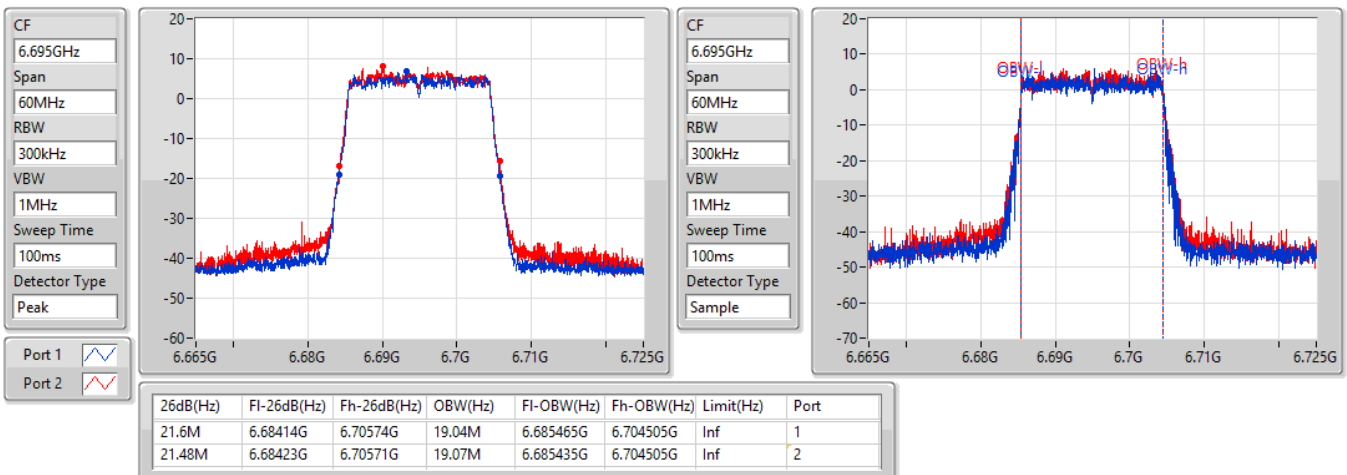


802.11ax HEW20_Nss2,(MCS0)_2TX
EBW
6535MHz

17/06/2021

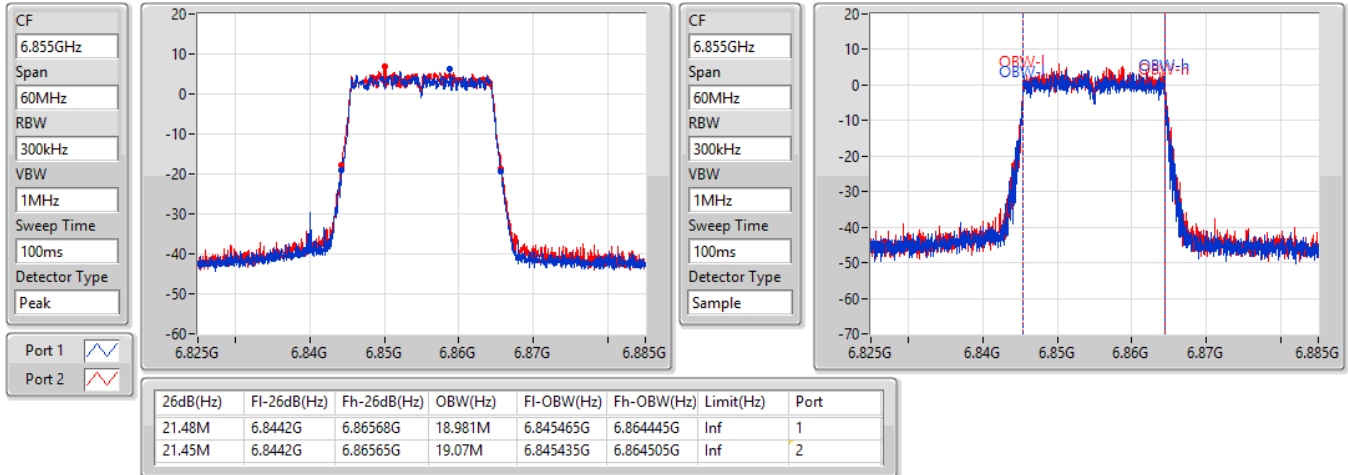

802.11ax HEW20_Nss2,(MCS0)_2TX
EBW
6695MHz

17/06/2021

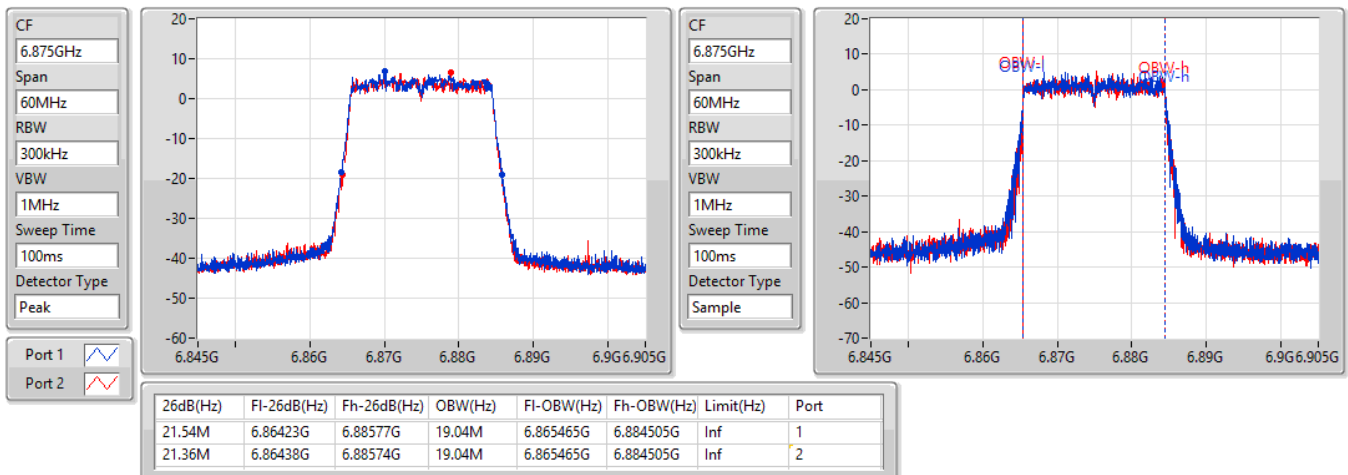


802.11ax HEW20_Nss2,(MCS0)_2TX
EBW
6855MHz

17/06/2021

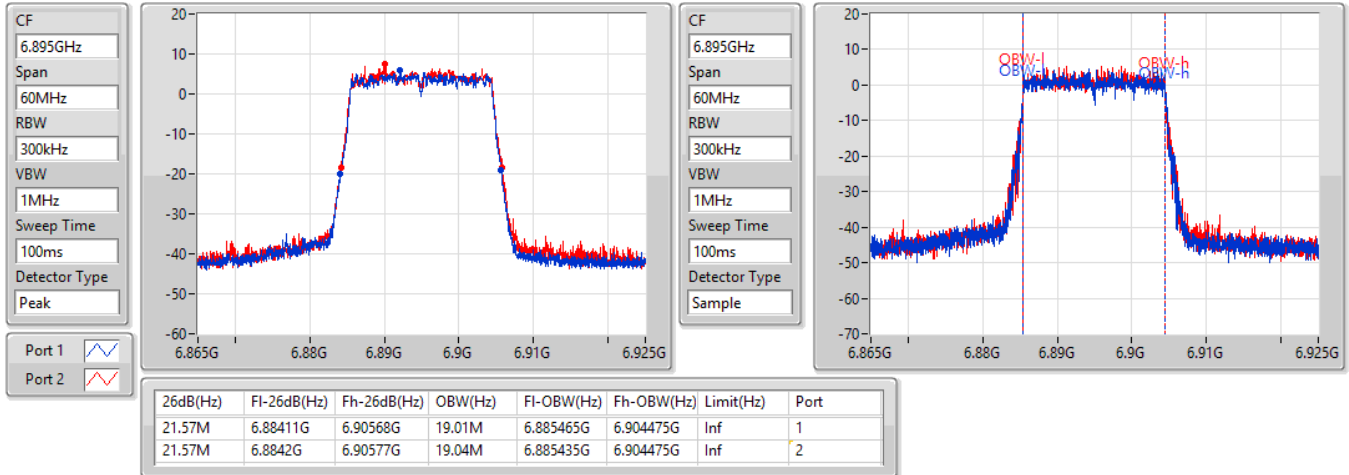

802.11ax HEW20_Nss2,(MCS0)_2TX
EBW
6875MHz Straddle 6.525-6.875GHz

17/06/2021

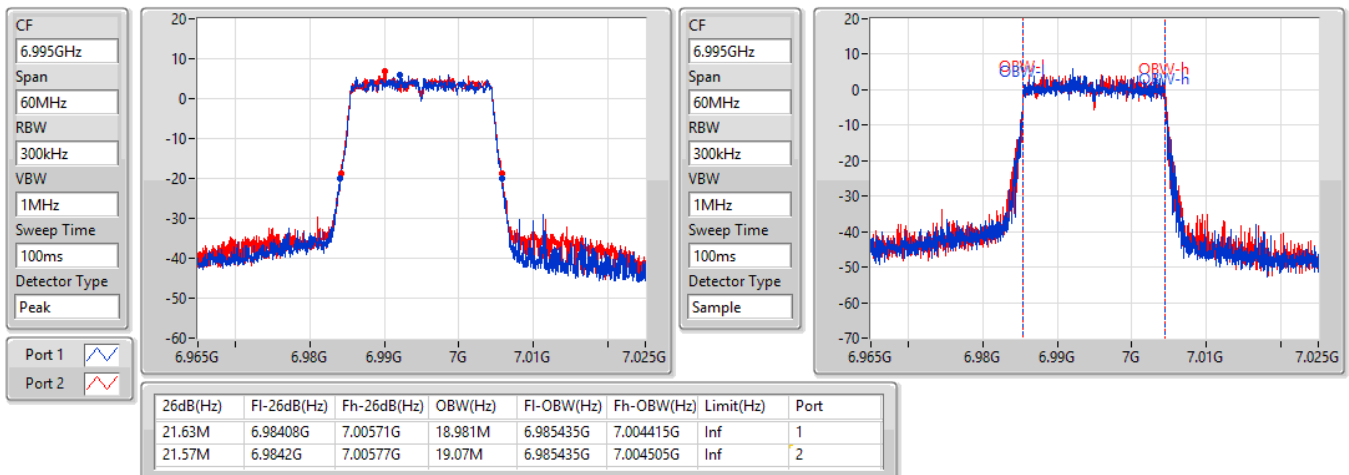


802.11ax HEW20_Nss2,(MCS0)_2TX
EBW
6895MHz

17/06/2021

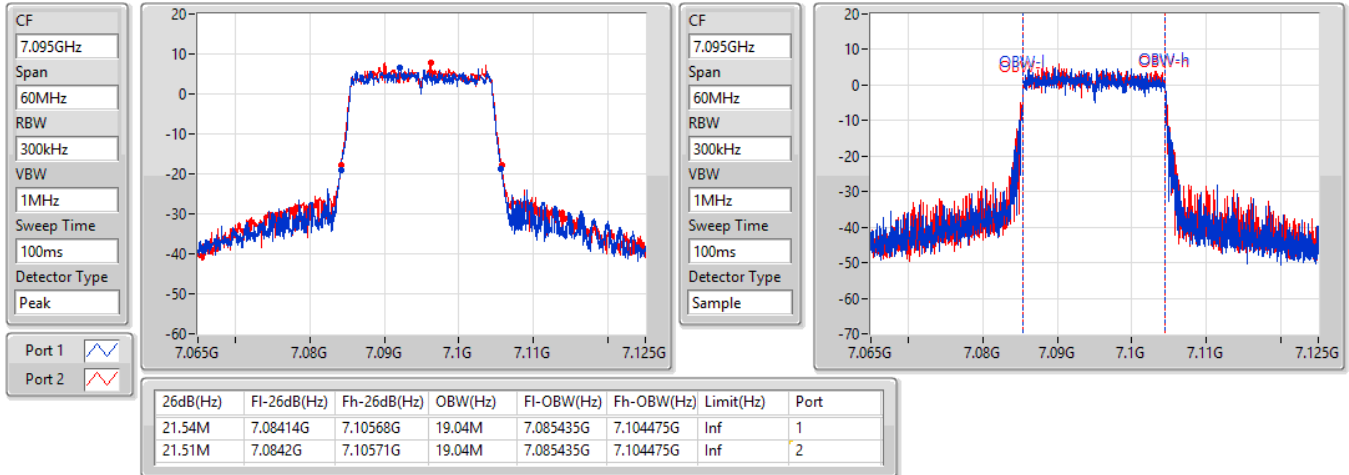

802.11ax HEW20_Nss2,(MCS0)_2TX
EBW
6995MHz

17/06/2021

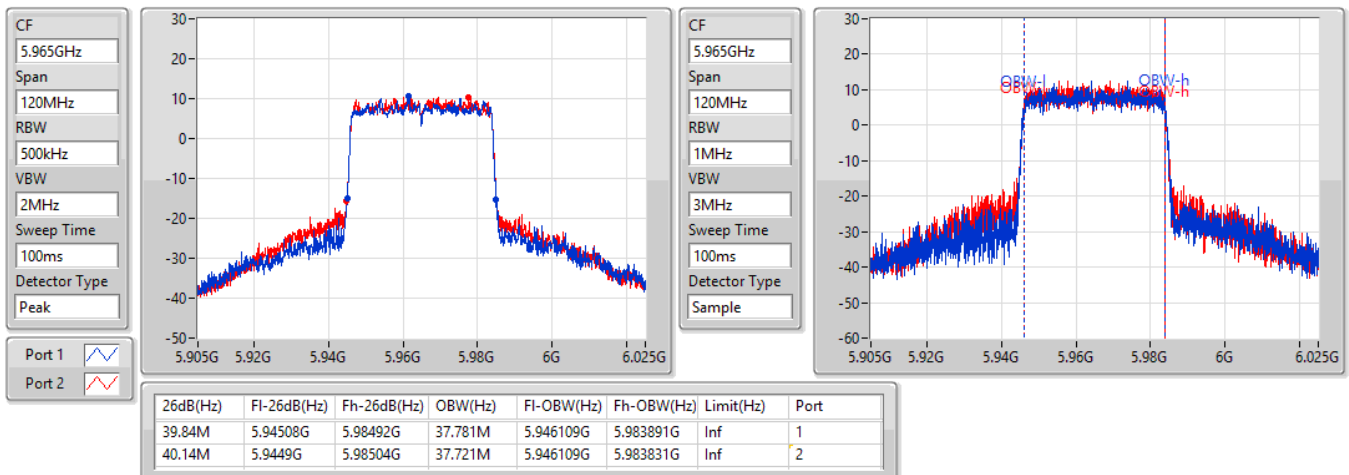


802.11ax HEW20_Nss2,(MCS0)_2TX
EBW
7095MHz

17/06/2021

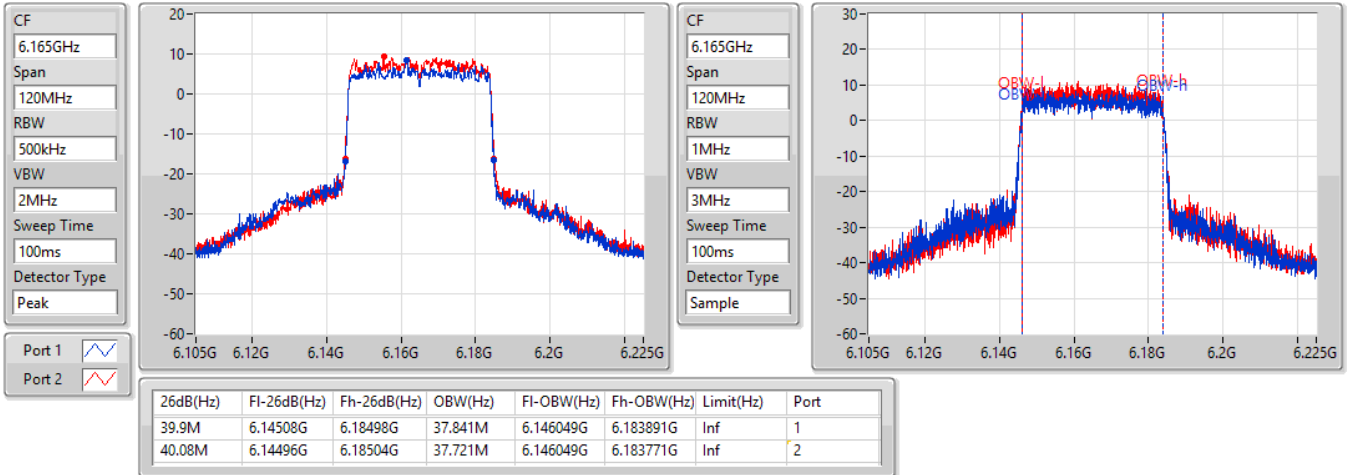

802.11ax HEW40_Nss2,(MCS0)_2TX
EBW
5965MHz

17/06/2021

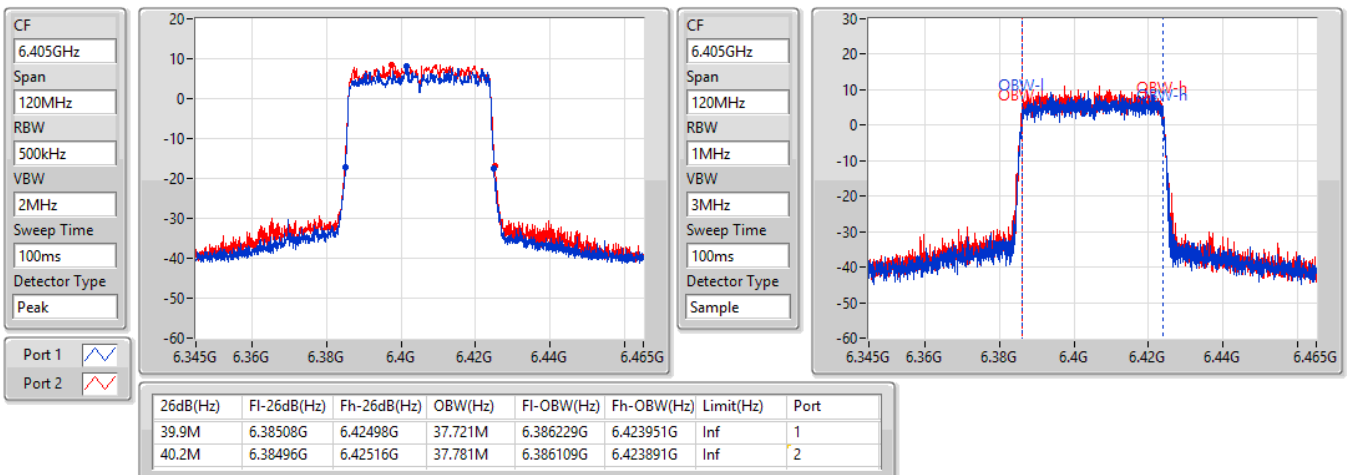


802.11ax HEW40_Nss2,(MCS0)_2TX
EBW
6165MHz

17/06/2021

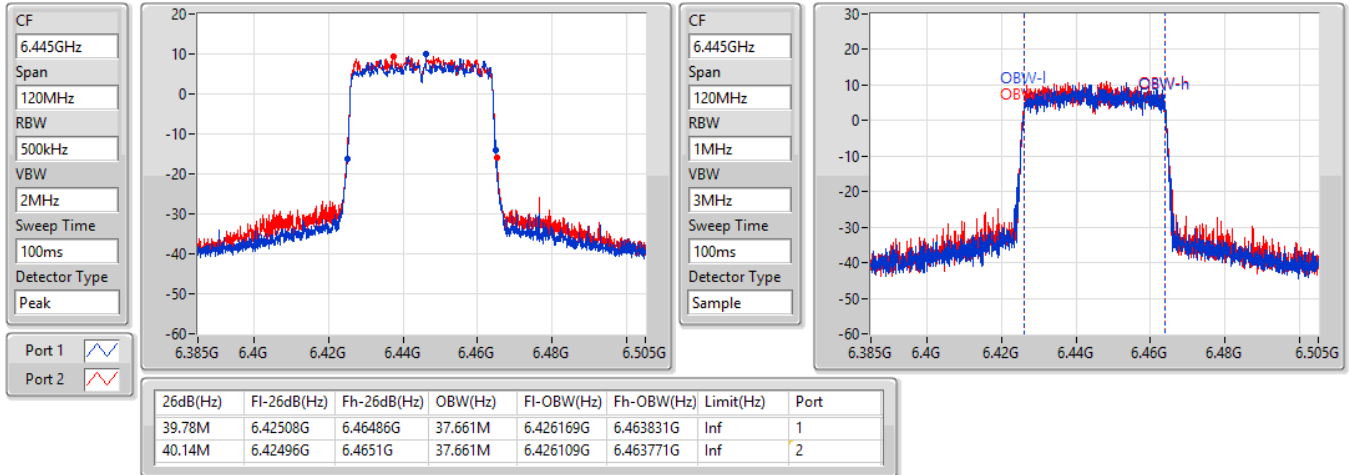

802.11ax HEW40_Nss2,(MCS0)_2TX
EBW
6405MHz

17/06/2021

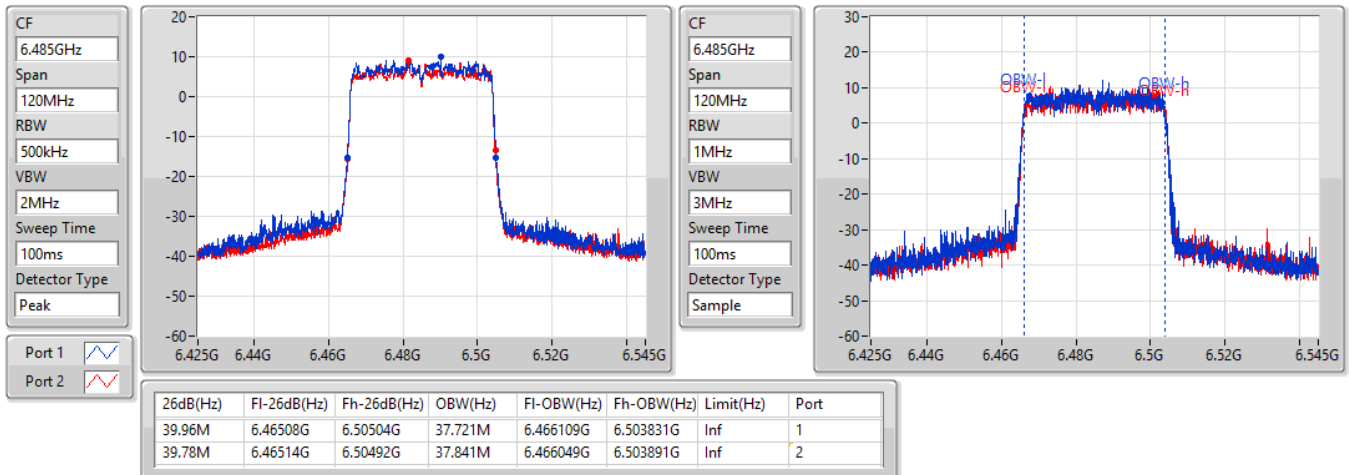


802.11ax HEW40_Nss2,(MCS0)_2TX
EBW
6445MHz

17/06/2021


802.11ax HEW40_Nss2,(MCS0)_2TX
EBW
6485MHz

17/06/2021

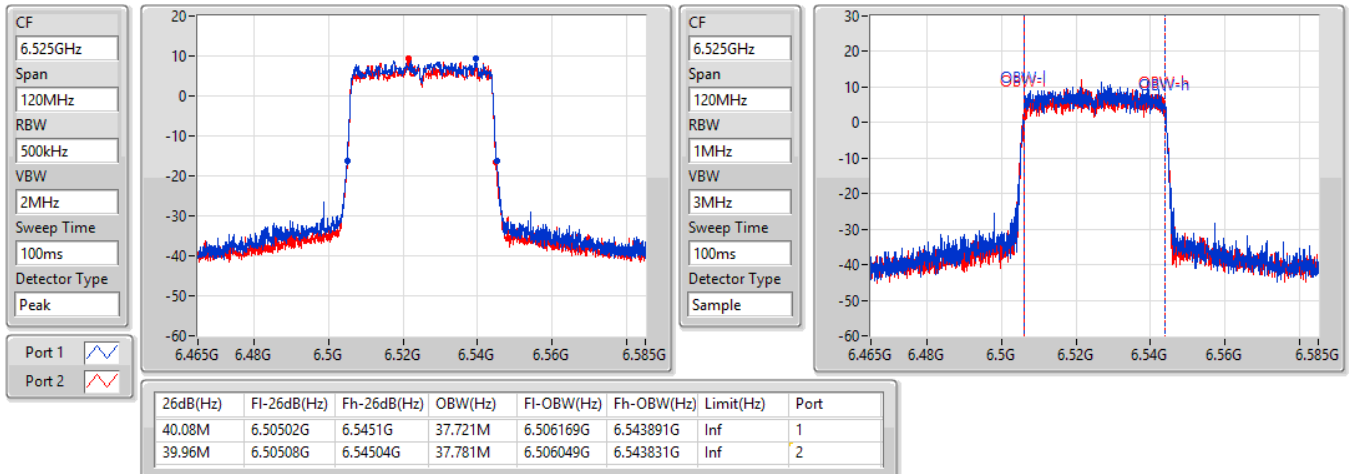


802.11ax HEW40_Nss2,(MCS0)_2TX

EBW

6525MHz Straddle 6.425-6.525GHz

17/06/2021

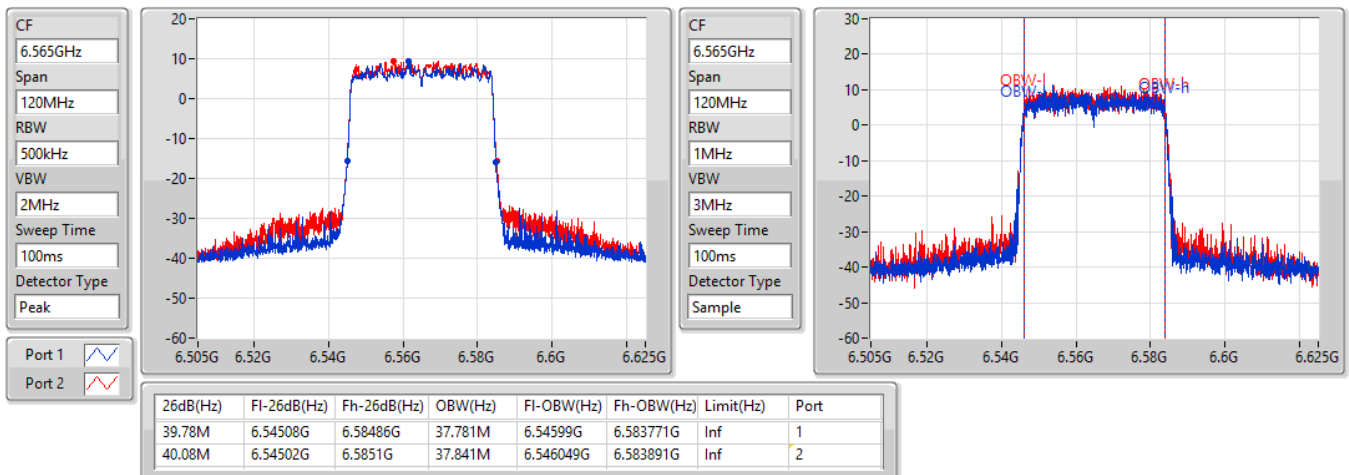


802.11ax HEW40_Nss2,(MCS0)_2TX

EBW

6565MHz

17/06/2021

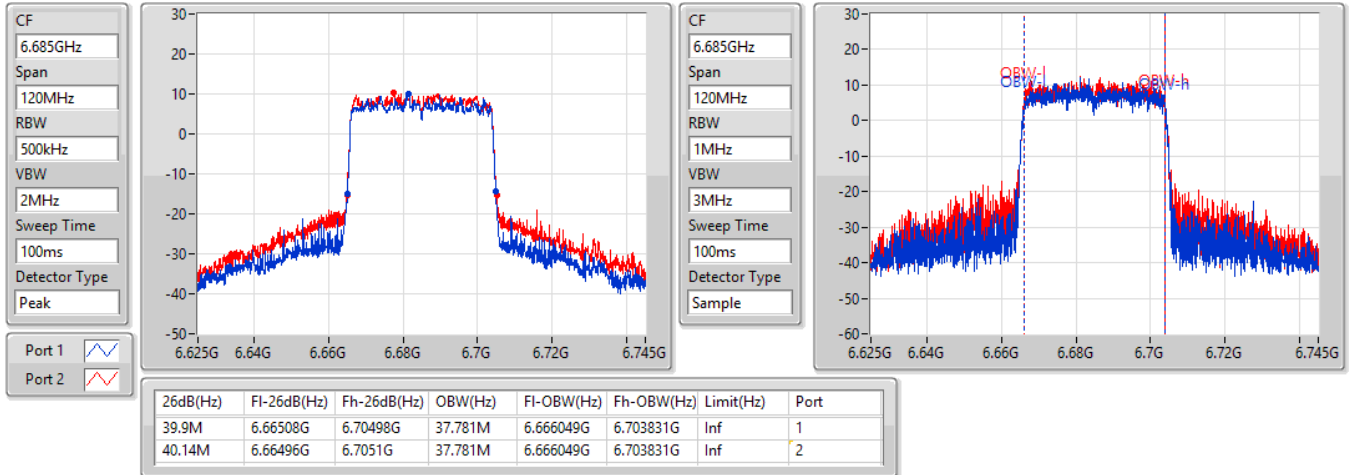


802.11ax HEW40_Nss2,(MCS0)_2TX

EBW

6685MHz

17/06/2021

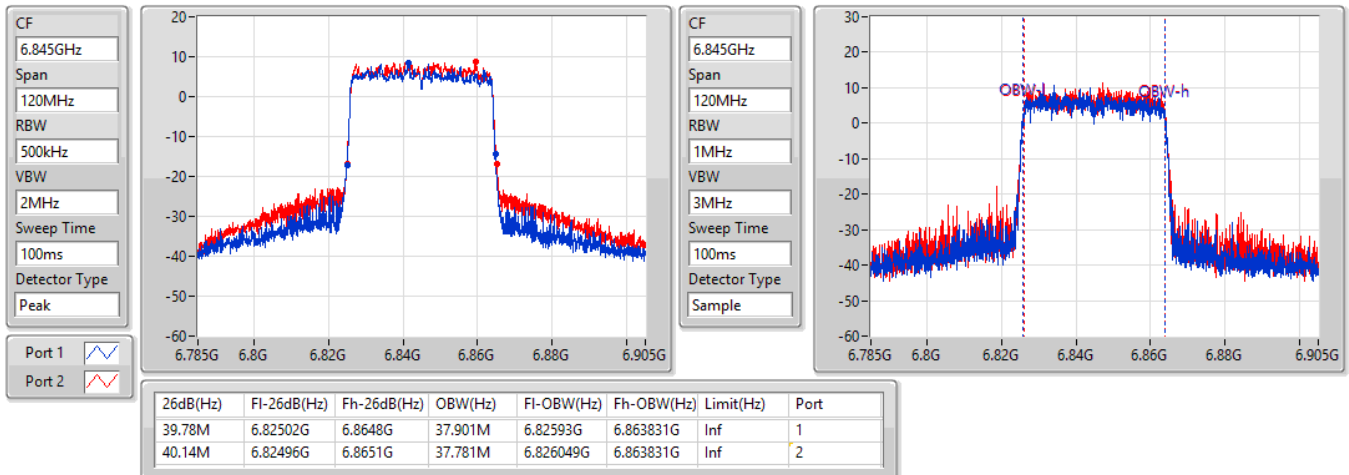


802.11ax HEW40_Nss2,(MCS0)_2TX

EBW

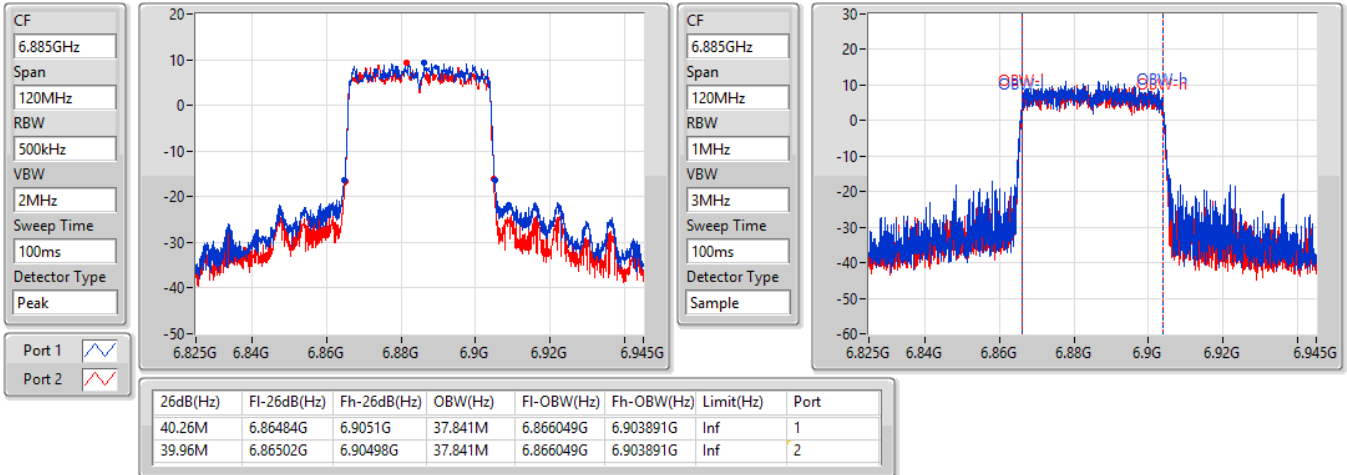
6845MHz

17/06/2021

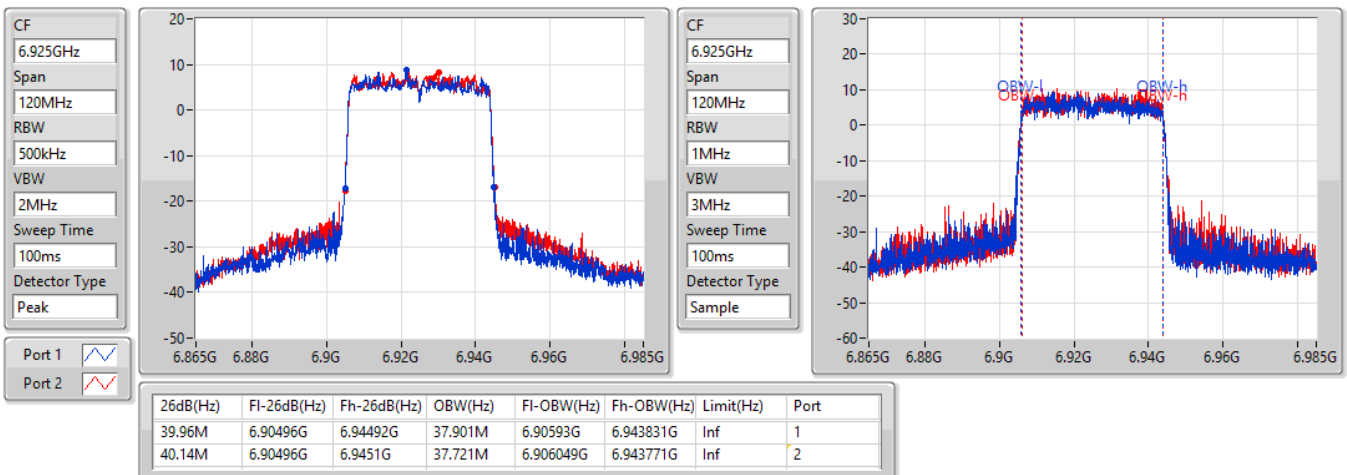


802.11ax HEW40_Nss2,(MCS0)_2TX
EBW
6885MHz Straddle 6.525-6.875GHz

17/06/2021

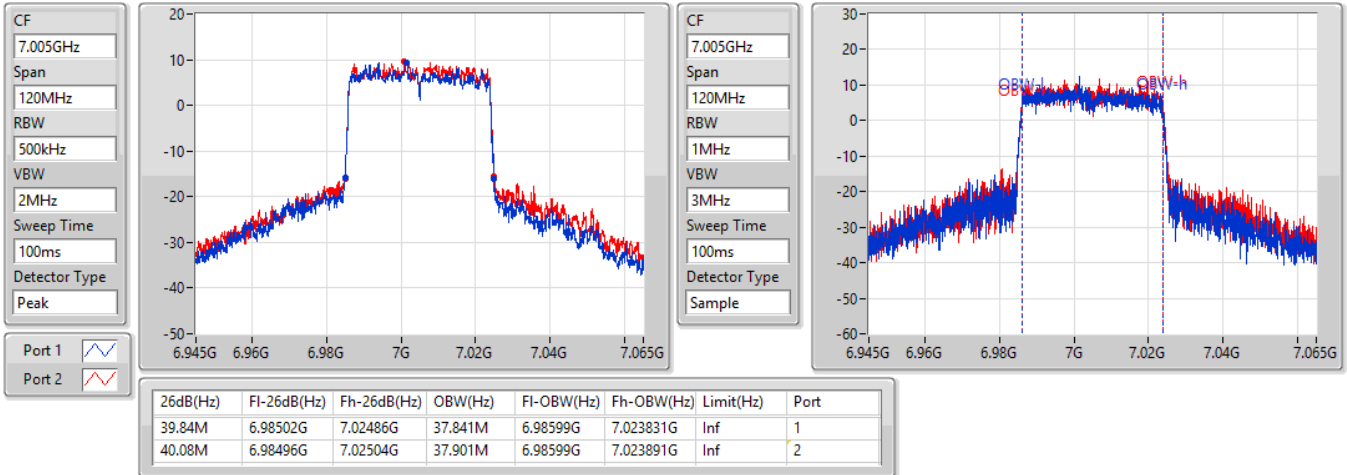

802.11ax HEW40_Nss2,(MCS0)_2TX
EBW
6925MHz

17/06/2021

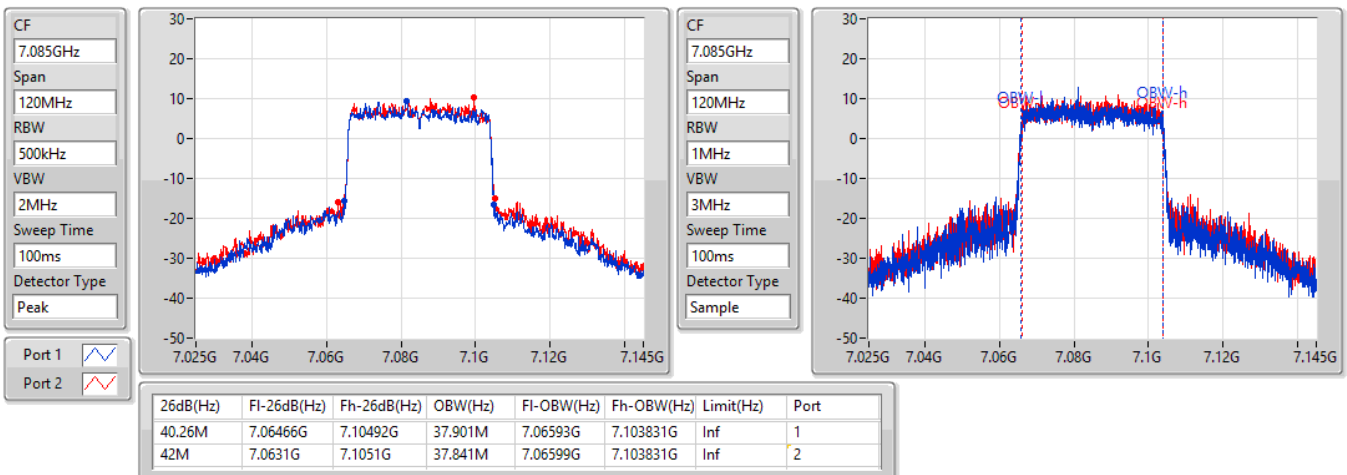


802.11ax HEW40_Nss2,(MCS0)_2TX
EBW
7005MHz

17/06/2021


802.11ax HEW40_Nss2,(MCS0)_2TX
EBW
7085MHz

17/06/2021

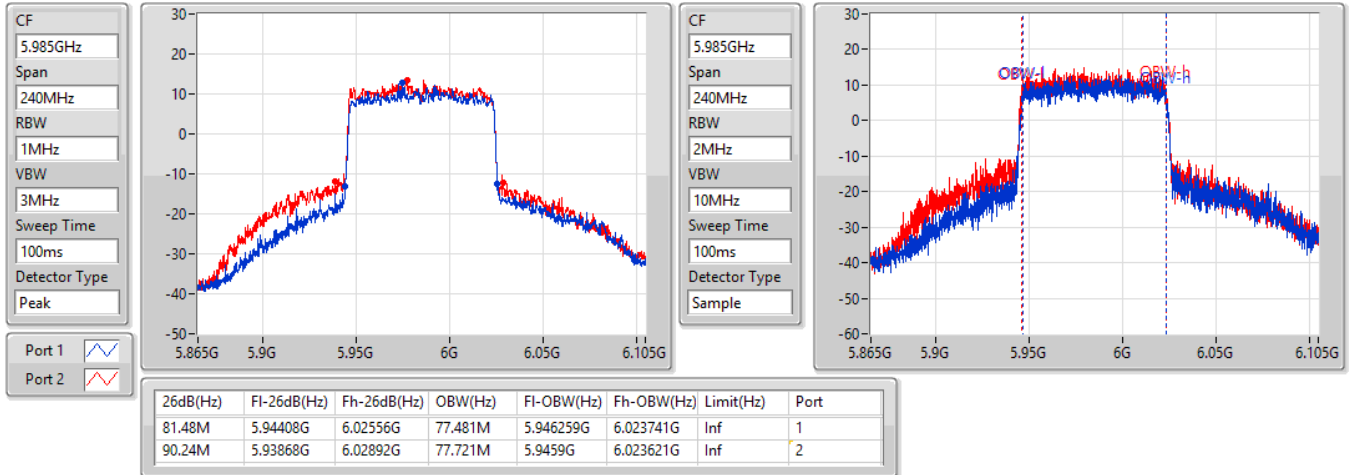


802.11ax HEW80_Nss2,(MCS0)_2TX

EBW

5985MHz

17/06/2021

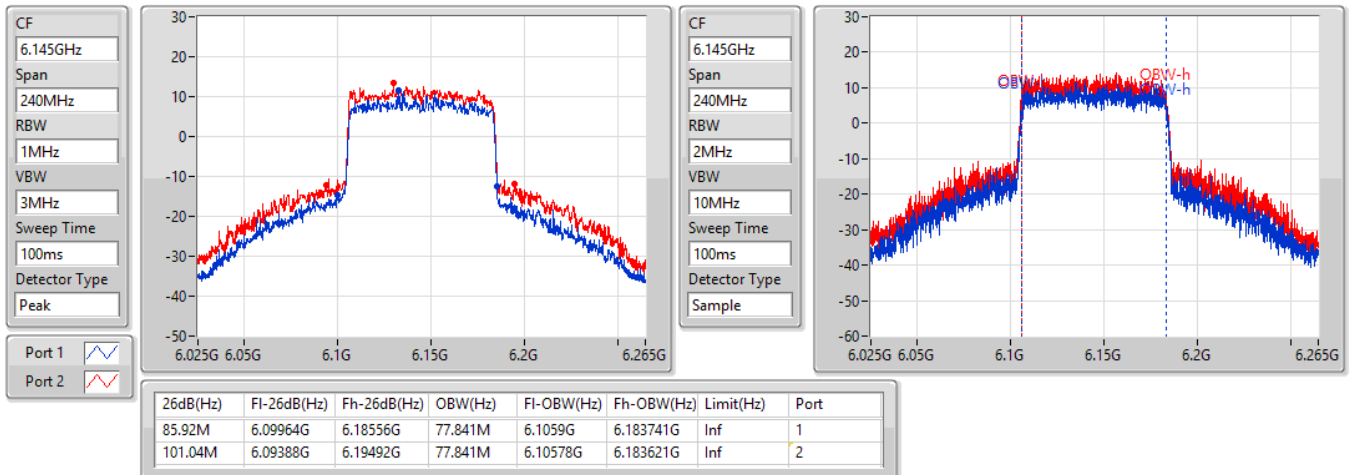


802.11ax HEW80_Nss2,(MCS0)_2TX

EBW

6145MHz

17/06/2021

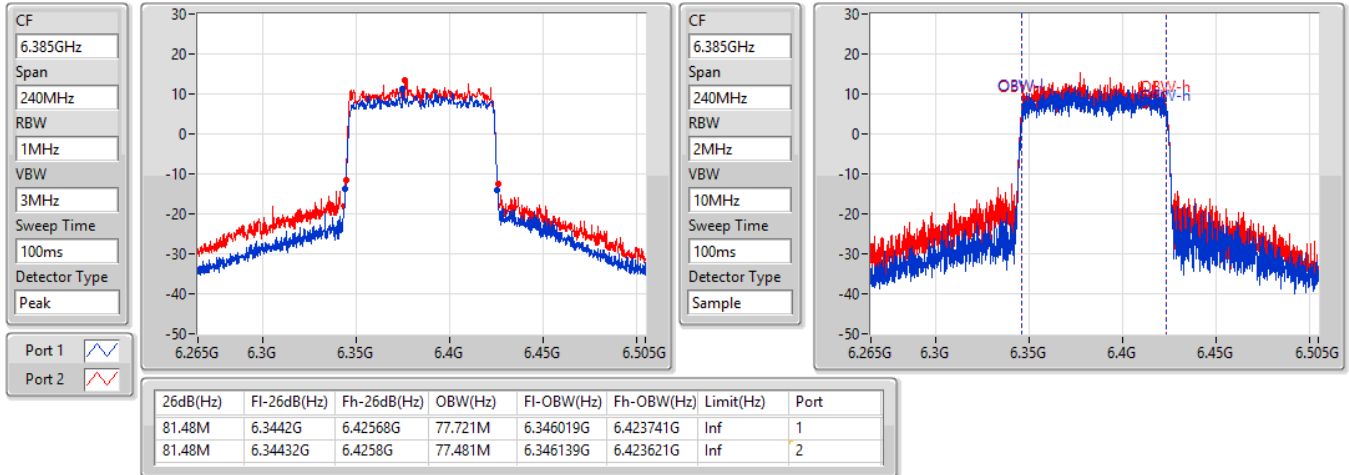


802.11ax HEW80_Nss2,(MCS0)_2TX

EBW

6385MHz

17/06/2021

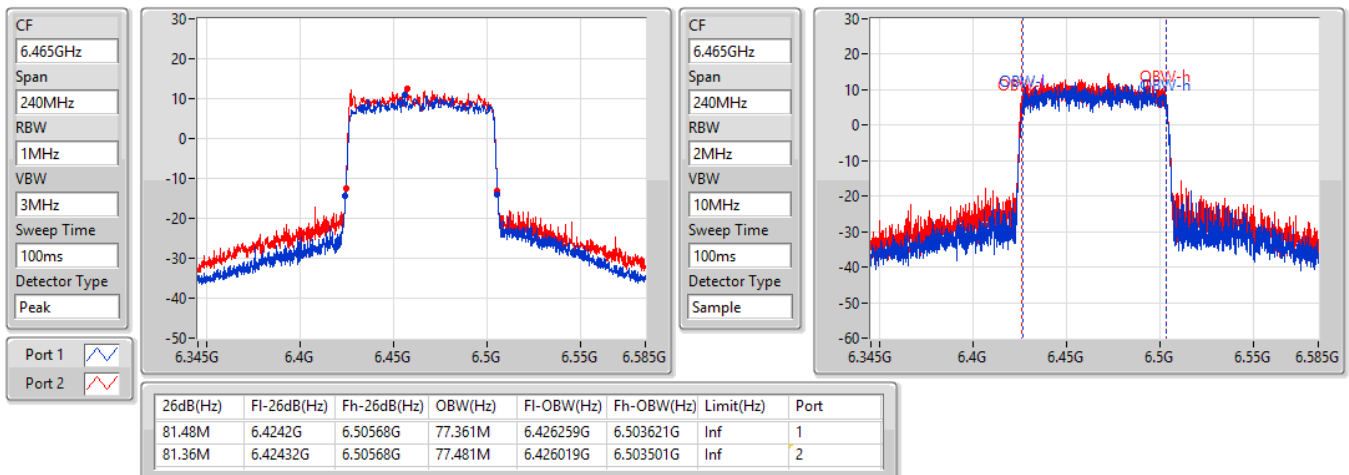


802.11ax HEW80_Nss2,(MCS0)_2TX

EBW

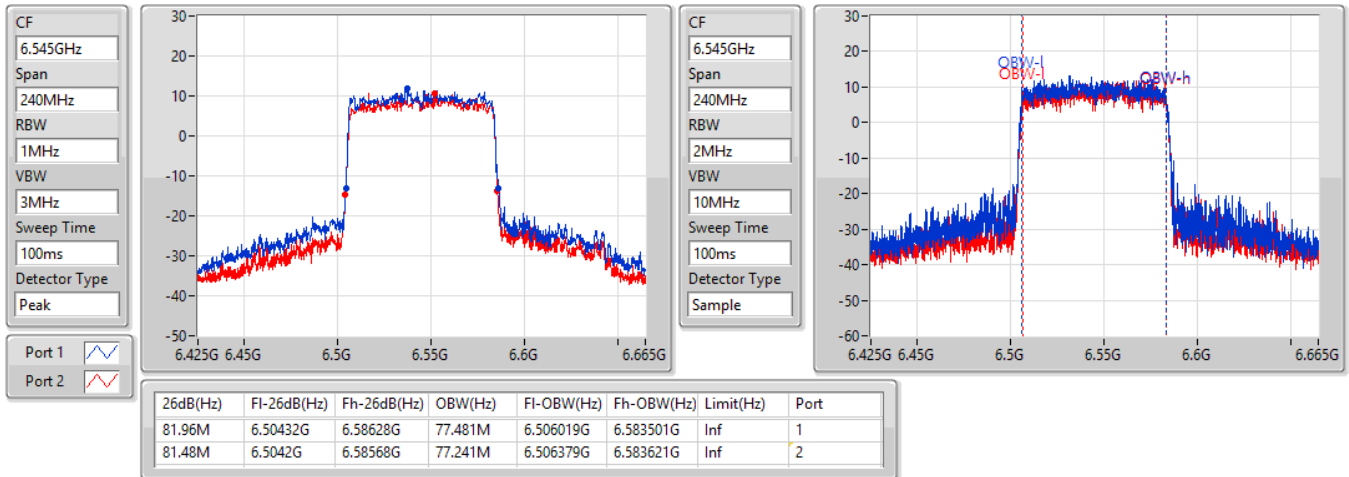
6465MHz

17/06/2021

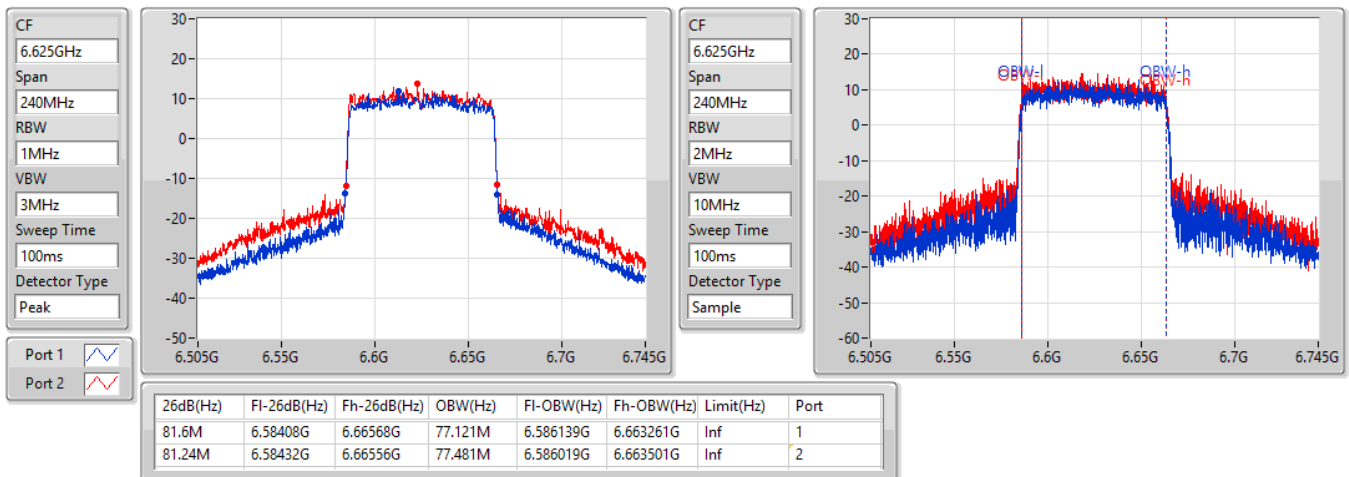


802.11ax HEW80_Nss2,(MCS0)_2TX
EBW
6545MHz Straddle 6.425-6.525GHz

17/06/2021

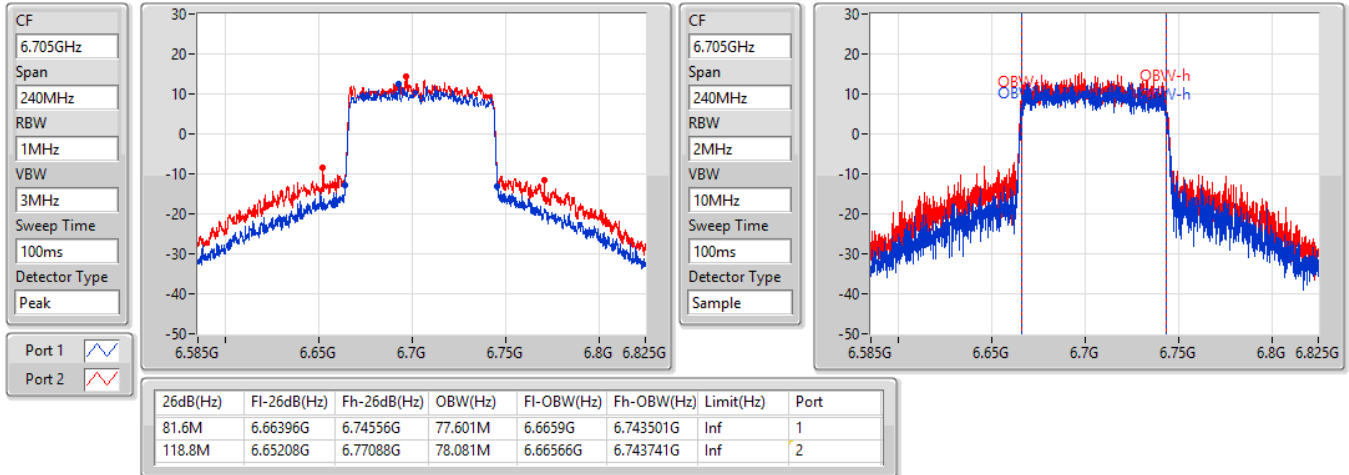

802.11ax HEW80_Nss2,(MCS0)_2TX
EBW
6625MHz

17/06/2021

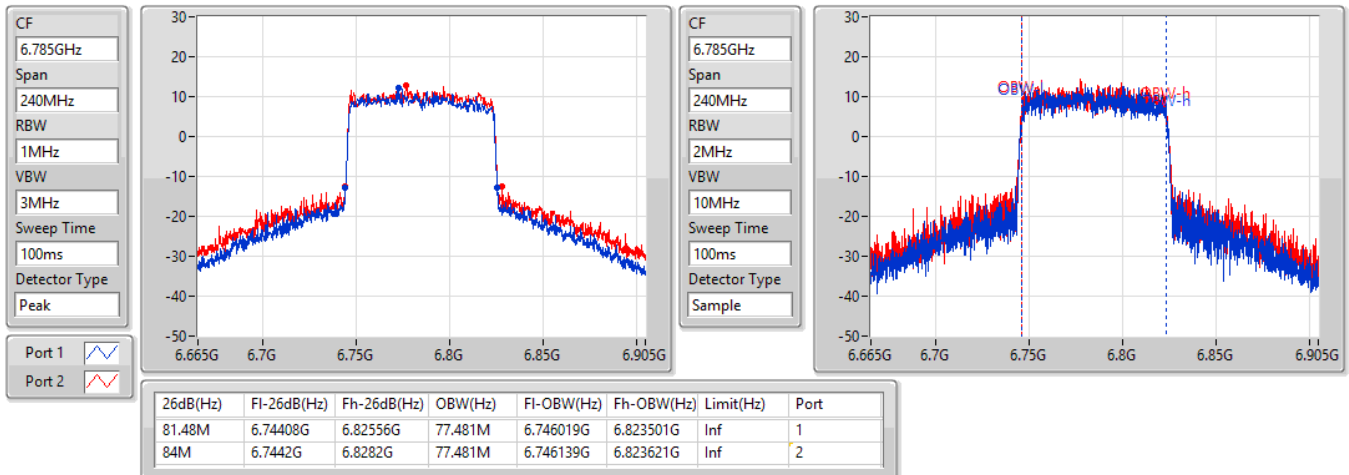


802.11ax HEW80_Nss2,(MCS0)_2TX
EBW
6705MHz

17/06/2021

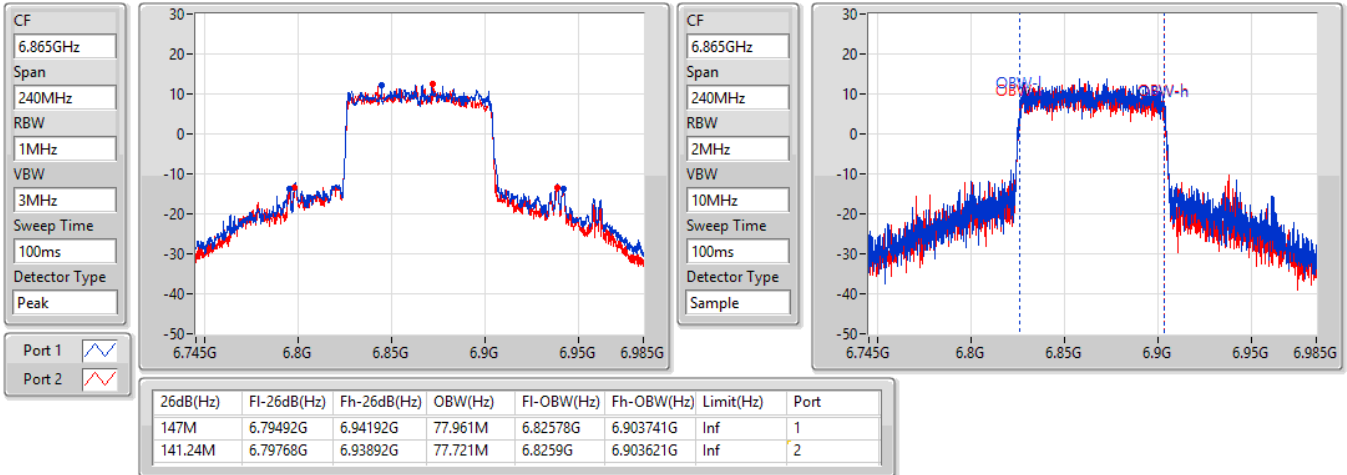

802.11ax HEW80_Nss2,(MCS0)_2TX
EBW
6785MHz

17/06/2021

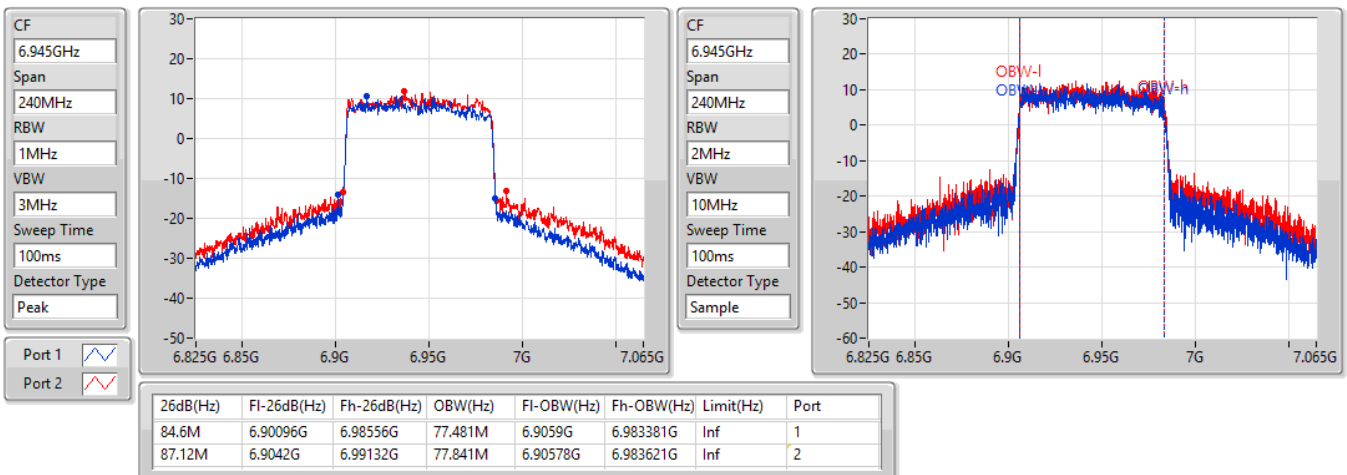


802.11ax HEW80_Nss2,(MCS0)_2TX
EBW
6865MHz Straddle 6.525-6.875GHz

17/06/2021


802.11ax HEW80_Nss2,(MCS0)_2TX
EBW
6945MHz

17/06/2021

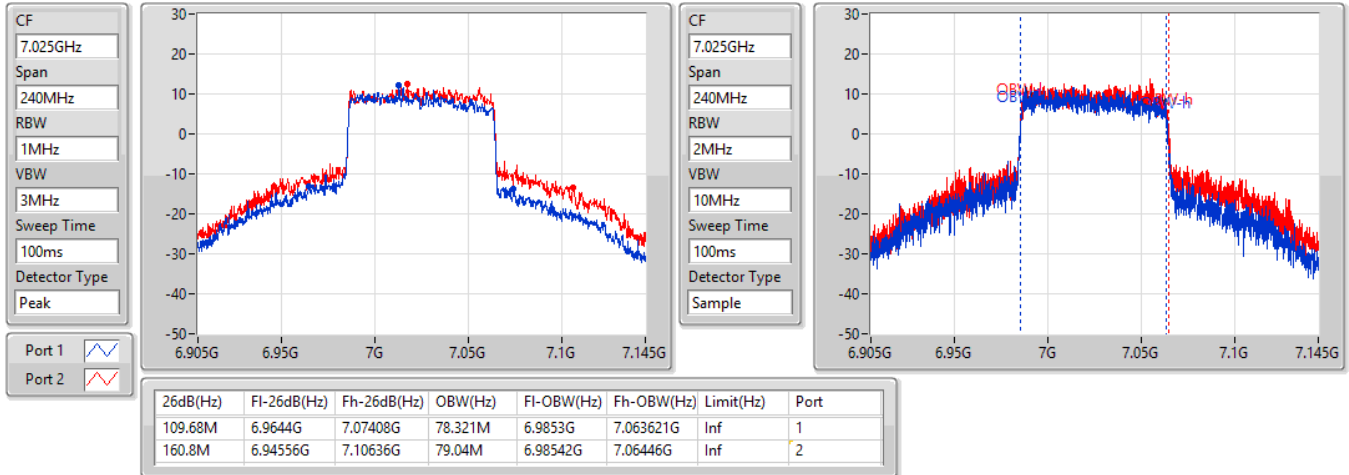


802.11ax HEW80_Nss2,(MCS0)_2TX

EBW

7025MHz

17/06/2021

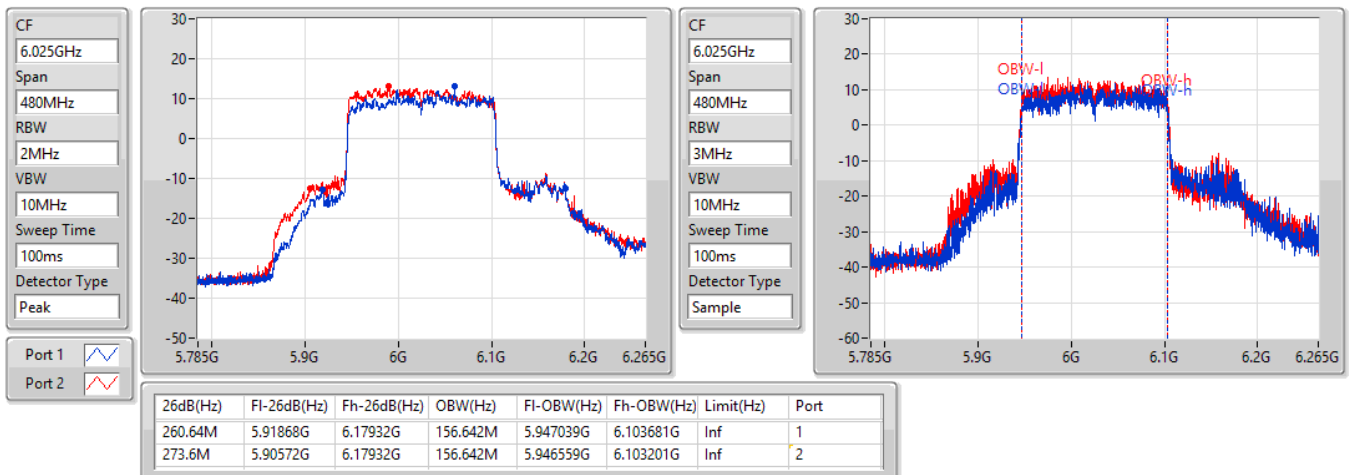


802.11ax HEW160_Nss2,(MCS0)_2TX

EBW

6025MHz

17/06/2021

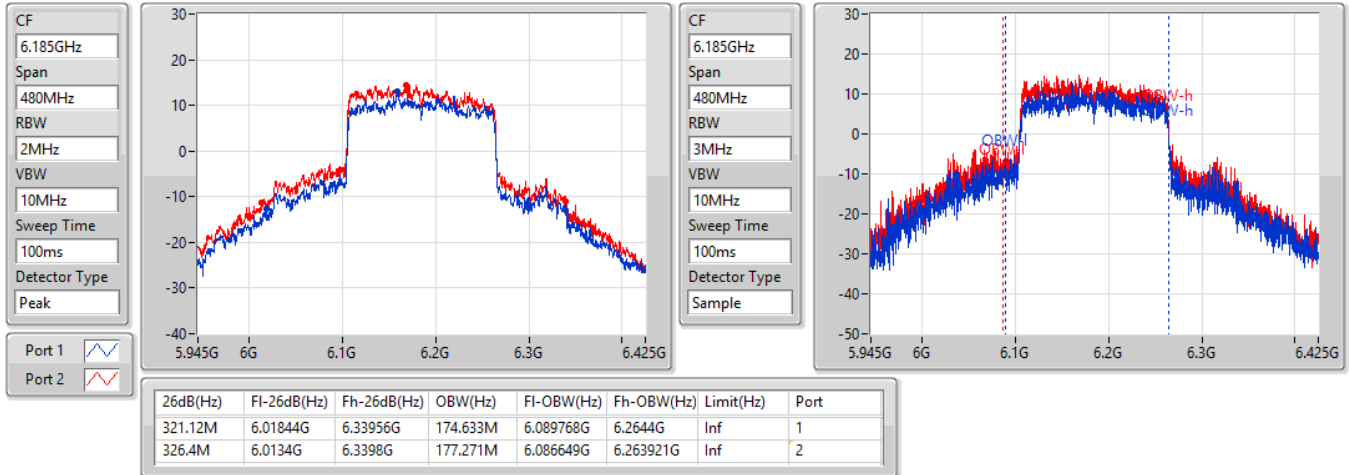


802.11ax HEW160_Nss2,(MCS0)_2TX

EBW

6185MHz

17/06/2021

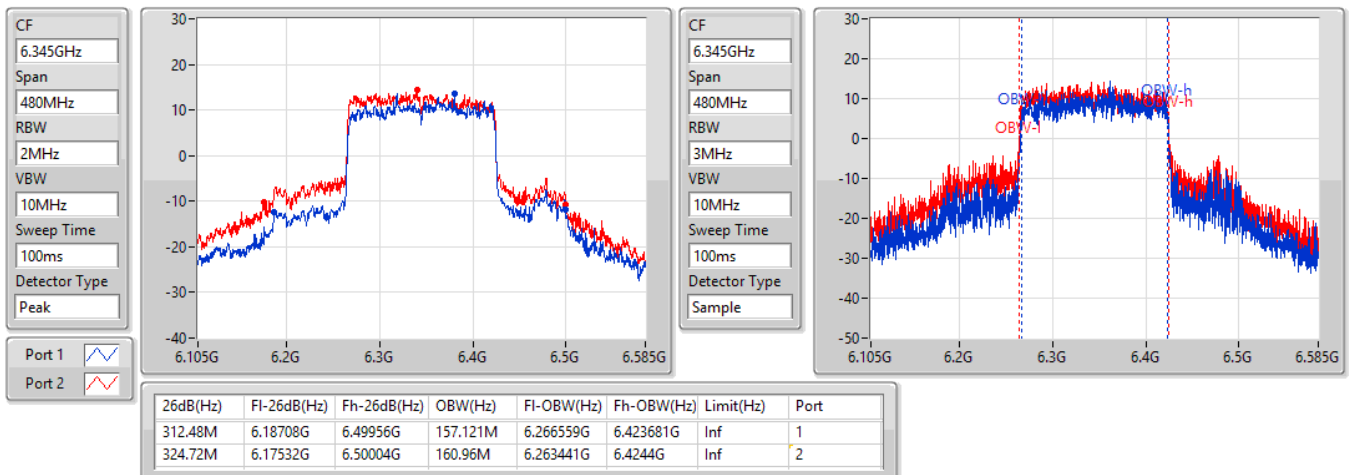


802.11ax HEW160_Nss2,(MCS0)_2TX

EBW

6345MHz

17/06/2021

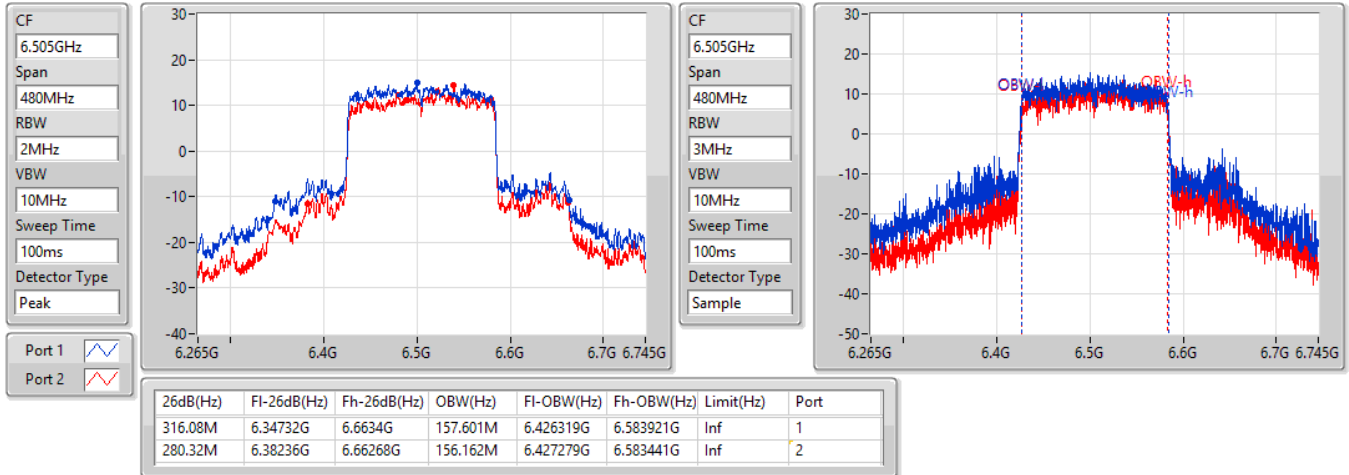


802.11ax HEW160_Nss2,(MCS0)_2TX

EBW

6505MHz Straddle 6.425-6.525GHz

17/06/2021

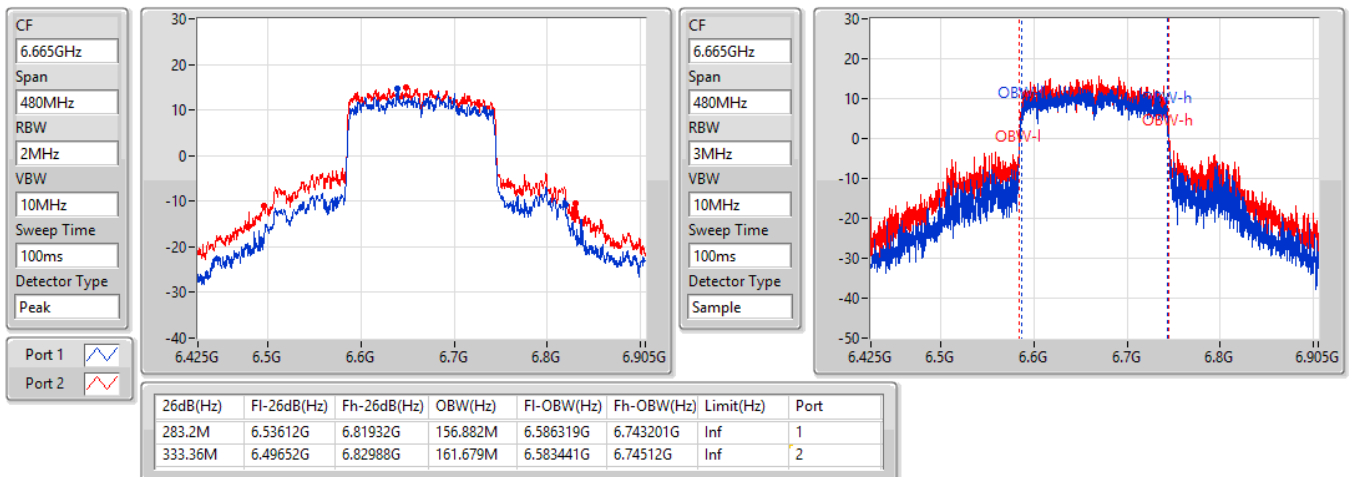


802.11ax HEW160_Nss2,(MCS0)_2TX

EBW

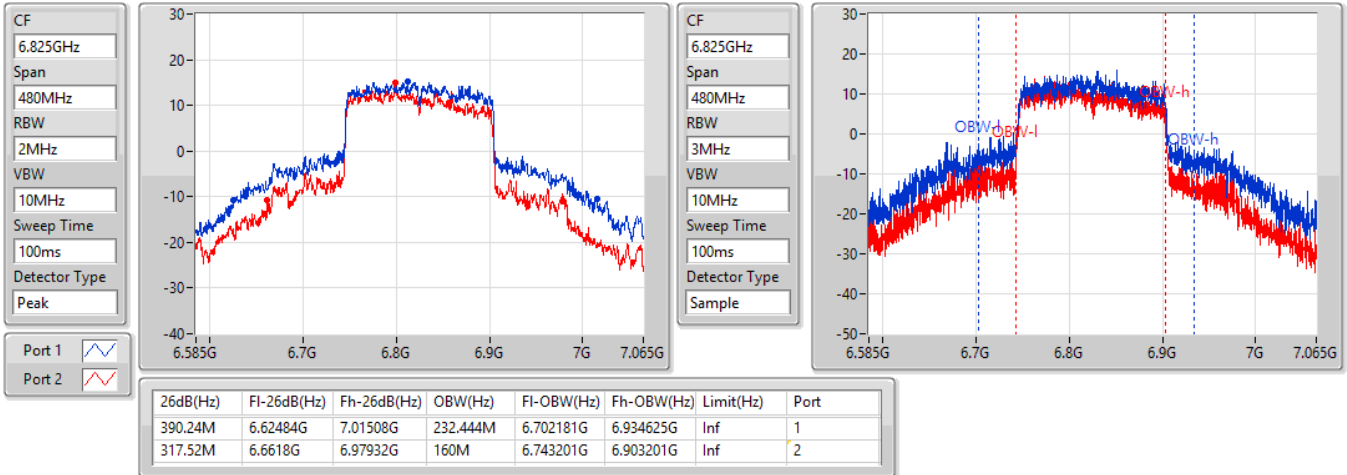
6665MHz

17/06/2021

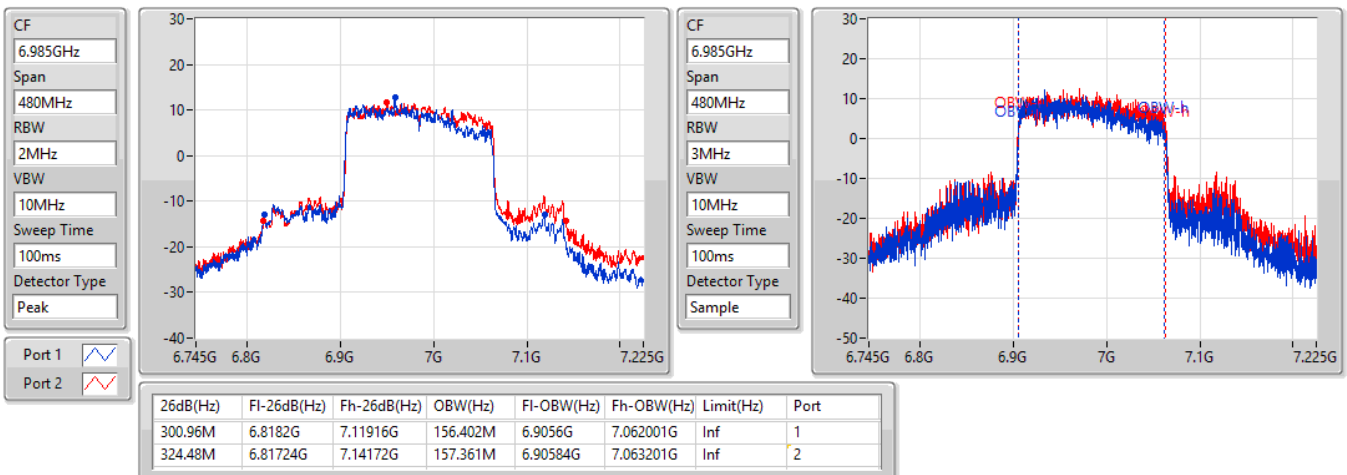


802.11ax HEW160_Nss2,(MCS0)_2TX
EBW
6825MHz Straddle 6.525-6.875GHz

17/06/2021


802.11ax HEW160_Nss2,(MCS0)_2TX
EBW
6985MHz

17/06/2021



For Scanning radio 3 / Mode 1 for 1T1S

Freq (MHz)	Mode	EIRP (dBm)	Low Power Indoor Device Limit (dBm)
5955	802.11ax HEW20_Nss1,(MCS0)_1TX	17.86	30.00
6175	802.11ax HEW20_Nss1,(MCS0)_1TX	16.76	30.00
6415	802.11ax HEW20_Nss1,(MCS0)_1TX	17.48	30.00
6435	802.11ax HEW20_Nss1,(MCS0)_1TX	16.95	30.00
6475	802.11ax HEW20_Nss1,(MCS0)_1TX	17.25	30.00
6515	802.11ax HEW20_Nss1,(MCS0)_1TX	16.57	30.00
6535	802.11ax HEW20_Nss1,(MCS0)_1TX	16.92	30.00
6695	802.11ax HEW20_Nss1,(MCS0)_1TX	17.32	30.00
6855	802.11ax HEW20_Nss1,(MCS0)_1TX	17.06	30.00
6875	802.11ax HEW20_Nss1,(MCS0)_1TX	17.44	30.00
6895	802.11ax HEW20_Nss1,(MCS0)_1TX	17.89	30.00
6995	802.11ax HEW20_Nss1,(MCS0)_1TX	16.81	30.00
7095	802.11ax HEW20_Nss1,(MCS0)_1TX	17.18	30.00
5965	802.11ax HEW40_Nss1,(MCS0)_1TX	21.63	30.00
6165	802.11ax HEW40_Nss1,(MCS0)_1TX	21.24	30.00
6405	802.11ax HEW40_Nss1,(MCS0)_1TX	21.47	30.00
6445	802.11ax HEW40_Nss1,(MCS0)_1TX	21.26	30.00
6485	802.11ax HEW40_Nss1,(MCS0)_1TX	21.19	30.00
6525	802.11ax HEW40_Nss1,(MCS0)_1TX	20.33	30.00
6565	802.11ax HEW40_Nss1,(MCS0)_1TX	21.07	30.00
6685	802.11ax HEW40_Nss1,(MCS0)_1TX	20.96	30.00
6845	802.11ax HEW40_Nss1,(MCS0)_1TX	20.88	30.00
6885	802.11ax HEW40_Nss1,(MCS0)_1TX	20.99	30.00
6925	802.11ax HEW40_Nss1,(MCS0)_1TX	20.64	30.00
7005	802.11ax HEW40_Nss1,(MCS0)_1TX	20.71	30.00
7085	802.11ax HEW40_Nss1,(MCS0)_1TX	20.53	30.00
5985	802.11ax HEW80_Nss1,(MCS0)_1TX	22.72	30.00
6145	802.11ax HEW80_Nss1,(MCS0)_1TX	24.04	30.00
6385	802.11ax HEW80_Nss1,(MCS0)_1TX	23.57	30.00
6465	802.11ax HEW80_Nss1,(MCS0)_1TX	23.27	30.00
6545	802.11ax HEW80_Nss1,(MCS0)_1TX	23.44	30.00
6625	802.11ax HEW80_Nss1,(MCS0)_1TX	23.46	30.00
6705	802.11ax HEW80_Nss1,(MCS0)_1TX	23.55	30.00
6785	802.11ax HEW80_Nss1,(MCS0)_1TX	23.90	30.00
6865	802.11ax HEW80_Nss1,(MCS0)_1TX	23.41	30.00
6945	802.11ax HEW80_Nss1,(MCS0)_1TX	23.58	30.00
7025	802.11ax HEW80_Nss1,(MCS0)_1TX	22.88	30.00
6025	802.11ax HEW160_Nss1,(MCS0)_1TX	22.41	30.00
6185	802.11ax HEW160_Nss1,(MCS0)_1TX	25.51	30.00
6345	802.11ax HEW160_Nss1,(MCS0)_1TX	25.25	30.00
6505	802.11ax HEW160_Nss1,(MCS0)_1TX	26.33	30.00
6665	802.11ax HEW160_Nss1,(MCS0)_1TX	26.04	30.00
6825	802.11ax HEW160_Nss1,(MCS0)_1TX	24.99	30.00
6985	802.11ax HEW160_Nss1,(MCS0)_1TX	21.38	30.00

For Mode 2 for 2T1S beamforming mode

Freq (MHz)	Mode	EIRP (dBm)	Low Power Indoor Device Limit (dBm)
5955	802.11ax HEW20_Nss1,(MCS0)_2TX	15.36	30.00
6175	802.11ax HEW20_Nss1,(MCS0)_2TX	14.72	30.00
6415	802.11ax HEW20_Nss1,(MCS0)_2TX	16.24	30.00
6435	802.11ax HEW20_Nss1,(MCS0)_2TX	15.96	30.00
6475	802.11ax HEW20_Nss1,(MCS0)_2TX	16.02	30.00
6515	802.11ax HEW20_Nss1,(MCS0)_2TX	16.08	30.00
6535	802.11ax HEW20_Nss1,(MCS0)_2TX	15.67	30.00
6695	802.11ax HEW20_Nss1,(MCS0)_2TX	15.77	30.00
6855	802.11ax HEW20_Nss1,(MCS0)_2TX	16.82	30.00
6875	802.11ax HEW20_Nss1,(MCS0)_2TX	16.15	30.00
6895	802.11ax HEW20_Nss1,(MCS0)_2TX	16.76	30.00
6995	802.11ax HEW20_Nss1,(MCS0)_2TX	15.89	30.00
7095	802.11ax HEW20_Nss1,(MCS0)_2TX	15.86	30.00
5965	802.11ax HEW40_Nss1,(MCS0)_2TX	19.77	30.00
6165	802.11ax HEW40_Nss1,(MCS0)_2TX	19.12	30.00
6405	802.11ax HEW40_Nss1,(MCS0)_2TX	20.77	30.00
6445	802.11ax HEW40_Nss1,(MCS0)_2TX	20.73	30.00
6485	802.11ax HEW40_Nss1,(MCS0)_2TX	20.22	30.00
6525	802.11ax HEW40_Nss1,(MCS0)_2TX	20.35	30.00
6565	802.11ax HEW40_Nss1,(MCS0)_2TX	20.04	30.00
6685	802.11ax HEW40_Nss1,(MCS0)_2TX	20.20	30.00
6845	802.11ax HEW40_Nss1,(MCS0)_2TX	20.28	30.00
6885	802.11ax HEW40_Nss1,(MCS0)_2TX	20.11	30.00
6925	802.11ax HEW40_Nss1,(MCS0)_2TX	20.38	30.00
7005	802.11ax HEW40_Nss1,(MCS0)_2TX	20.43	30.00
7085	802.11ax HEW40_Nss1,(MCS0)_2TX	19.95	30.00
5985	802.11ax HEW80_Nss1,(MCS0)_2TX	22.25	30.00
6145	802.11ax HEW80_Nss1,(MCS0)_2TX	20.47	30.00
6385	802.11ax HEW80_Nss1,(MCS0)_2TX	22.86	30.00
6465	802.11ax HEW80_Nss1,(MCS0)_2TX	23.66	30.00
6545	802.11ax HEW80_Nss1,(MCS0)_2TX	23.75	30.00
6625	802.11ax HEW80_Nss1,(MCS0)_2TX	23.57	30.00
6705	802.11ax HEW80_Nss1,(MCS0)_2TX	24.26	30.00
6785	802.11ax HEW80_Nss1,(MCS0)_2TX	24.19	30.00
6865	802.11ax HEW80_Nss1,(MCS0)_2TX	24.27	30.00
6945	802.11ax HEW80_Nss1,(MCS0)_2TX	23.93	30.00
7025	802.11ax HEW80_Nss1,(MCS0)_2TX	23.79	30.00
6025	802.11ax HEW160_Nss1,(MCS0)_2TX	26.23	30.00
6185	802.11ax HEW160_Nss1,(MCS0)_2TX	26.29	30.00
6345	802.11ax HEW160_Nss1,(MCS0)_2TX	25.94	30.00
6505	802.11ax HEW160_Nss1,(MCS0)_2TX	26.16	30.00
6665	802.11ax HEW160_Nss1,(MCS0)_2TX	26.06	30.00
6825	802.11ax HEW160_Nss1,(MCS0)_2TX	26.28	30.00
6985	802.11ax HEW160_Nss1,(MCS0)_2TX	25.15	30.00

For Mode 3 for 2T2S

Freq (MHz)	Mode	EIRP (dBm)	Low Power Indoor Device Limit (dBm)
5955	802.11ax HEW20_Nss2,(MCS0)_2TX	18.05	30.00
6175	802.11ax HEW20_Nss2,(MCS0)_2TX	18.23	30.00
6415	802.11ax HEW20_Nss2,(MCS0)_2TX	18.23	30.00
6435	802.11ax HEW20_Nss2,(MCS0)_2TX	18.36	30.00
6475	802.11ax HEW20_Nss2,(MCS0)_2TX	18.32	30.00
6515	802.11ax HEW20_Nss2,(MCS0)_2TX	18.47	30.00
6535	802.11ax HEW20_Nss2,(MCS0)_2TX	18.47	30.00
6695	802.11ax HEW20_Nss2,(MCS0)_2TX	18.19	30.00
6855	802.11ax HEW20_Nss2,(MCS0)_2TX	18.37	30.00
6875	802.11ax HEW20_Nss2,(MCS0)_2TX	18.37	30.00
6895	802.11ax HEW20_Nss2,(MCS0)_2TX	18.12	30.00
6995	802.11ax HEW20_Nss2,(MCS0)_2TX	17.53	30.00
7095	802.11ax HEW20_Nss2,(MCS0)_2TX	18.18	30.00
5965	802.11ax HEW40_Nss2,(MCS0)_2TX	20.72	30.00
6165	802.11ax HEW40_Nss2,(MCS0)_2TX	20.70	30.00
6405	802.11ax HEW40_Nss2,(MCS0)_2TX	21.09	30.00
6445	802.11ax HEW40_Nss2,(MCS0)_2TX	20.77	30.00
6485	802.11ax HEW40_Nss2,(MCS0)_2TX	21.16	30.00
6525	802.11ax HEW40_Nss2,(MCS0)_2TX	21.16	30.00
6565	802.11ax HEW40_Nss2,(MCS0)_2TX	20.60	30.00
6685	802.11ax HEW40_Nss2,(MCS0)_2TX	21.16	30.00
6845	802.11ax HEW40_Nss2,(MCS0)_2TX	20.91	30.00
6885	802.11ax HEW40_Nss2,(MCS0)_2TX	20.80	30.00
6925	802.11ax HEW40_Nss2,(MCS0)_2TX	20.76	30.00
7005	802.11ax HEW40_Nss2,(MCS0)_2TX	20.45	30.00
7085	802.11ax HEW40_Nss2,(MCS0)_2TX	20.73	30.00
5985	802.11ax HEW80_Nss2,(MCS0)_2TX	23.03	30.00
6145	802.11ax HEW80_Nss2,(MCS0)_2TX	23.65	30.00
6385	802.11ax HEW80_Nss2,(MCS0)_2TX	23.53	30.00
6465	802.11ax HEW80_Nss2,(MCS0)_2TX	23.60	30.00
6545	802.11ax HEW80_Nss2,(MCS0)_2TX	23.34	30.00
6625	802.11ax HEW80_Nss2,(MCS0)_2TX	23.56	30.00
6705	802.11ax HEW80_Nss2,(MCS0)_2TX	23.23	30.00
6785	802.11ax HEW80_Nss2,(MCS0)_2TX	23.46	30.00
6865	802.11ax HEW80_Nss2,(MCS0)_2TX	23.44	30.00
6945	802.11ax HEW80_Nss2,(MCS0)_2TX	23.24	30.00
7025	802.11ax HEW80_Nss2,(MCS0)_2TX	23.15	30.00
6025	802.11ax HEW160_Nss2,(MCS0)_2TX	24.41	30.00
6185	802.11ax HEW160_Nss2,(MCS0)_2TX	25.40	30.00
6345	802.11ax HEW160_Nss2,(MCS0)_2TX	25.98	30.00
6505	802.11ax HEW160_Nss2,(MCS0)_2TX	26.04	30.00
6665	802.11ax HEW160_Nss2,(MCS0)_2TX	26.24	30.00
6825	802.11ax HEW160_Nss2,(MCS0)_2TX	26.15	30.00
6985	802.11ax HEW160_Nss2,(MCS0)_2TX	23.75	30.00

For Scanning radio 3 / Mode 1 for 1T1S

Freq (MHz)	Mode	EIRP PSD (dBm/MHz)	Low Power Indoor Device Limit (dBm/MHz)
5955	802.11ax HEW20_Nss1,(MCS0)_1TX	4.88	5.00
6175	802.11ax HEW20_Nss1,(MCS0)_1TX	4.89	5.00
6415	802.11ax HEW20_Nss1,(MCS0)_1TX	4.80	5.00
6435	802.11ax HEW20_Nss1,(MCS0)_1TX	4.89	5.00
6475	802.11ax HEW20_Nss1,(MCS0)_1TX	4.97	5.00
6515	802.11ax HEW20_Nss1,(MCS0)_1TX	4.80	5.00
6535	802.11ax HEW20_Nss1,(MCS0)_1TX	4.84	5.00
6695	802.11ax HEW20_Nss1,(MCS0)_1TX	4.79	5.00
6855	802.11ax HEW20_Nss1,(MCS0)_1TX	4.87	5.00
6875	802.11ax HEW20_Nss1,(MCS0)_1TX	4.99	5.00
6895	802.11ax HEW20_Nss1,(MCS0)_1TX	4.94	5.00
6995	802.11ax HEW20_Nss1,(MCS0)_1TX	4.85	5.00
7095	802.11ax HEW20_Nss1,(MCS0)_1TX	4.80	5.00
5965	802.11ax HEW40_Nss1,(MCS0)_1TX	4.79	5.00
6165	802.11ax HEW40_Nss1,(MCS0)_1TX	4.93	5.00
6405	802.11ax HEW40_Nss1,(MCS0)_1TX	4.92	5.00
6445	802.11ax HEW40_Nss1,(MCS0)_1TX	4.86	5.00
6485	802.11ax HEW40_Nss1,(MCS0)_1TX	4.95	5.00
6525	802.11ax HEW40_Nss1,(MCS0)_1TX	4.85	5.00
6565	802.11ax HEW40_Nss1,(MCS0)_1TX	4.81	5.00
6685	802.11ax HEW40_Nss1,(MCS0)_1TX	4.91	5.00
6845	802.11ax HEW40_Nss1,(MCS0)_1TX	4.89	5.00
6885	802.11ax HEW40_Nss1,(MCS0)_1TX	4.88	5.00
6925	802.11ax HEW40_Nss1,(MCS0)_1TX	4.82	5.00
7005	802.11ax HEW40_Nss1,(MCS0)_1TX	4.91	5.00
7085	802.11ax HEW40_Nss1,(MCS0)_1TX	4.84	5.00
5985	802.11ax HEW80_Nss1,(MCS0)_1TX	3.85	5.00
6145	802.11ax HEW80_Nss1,(MCS0)_1TX	4.98	5.00
6385	802.11ax HEW80_Nss1,(MCS0)_1TX	4.99	5.00
6465	802.11ax HEW80_Nss1,(MCS0)_1TX	4.88	5.00
6545	802.11ax HEW80_Nss1,(MCS0)_1TX	4.99	5.00
6625	802.11ax HEW80_Nss1,(MCS0)_1TX	4.98	5.00
6705	802.11ax HEW80_Nss1,(MCS0)_1TX	4.94	5.00
6785	802.11ax HEW80_Nss1,(MCS0)_1TX	4.93	5.00
6865	802.11ax HEW80_Nss1,(MCS0)_1TX	4.92	5.00
6945	802.11ax HEW80_Nss1,(MCS0)_1TX	4.97	5.00
7025	802.11ax HEW80_Nss1,(MCS0)_1TX	3.96	5.00
6025	802.11ax HEW160_Nss1,(MCS0)_1TX	1.18	5.00
6185	802.11ax HEW160_Nss1,(MCS0)_1TX	4.84	5.00
6345	802.11ax HEW160_Nss1,(MCS0)_1TX	4.89	5.00
6505	802.11ax HEW160_Nss1,(MCS0)_1TX	4.90	5.00
6665	802.11ax HEW160_Nss1,(MCS0)_1TX	4.99	5.00
6825	802.11ax HEW160_Nss1,(MCS0)_1TX	3.89	5.00



PSD (E.I.R.P.) Result

Appendix D.1

6985	802.11ax HEW160_Nss1,(MCS0)_1TX	0.25	5.00
------	---------------------------------	------	------

For Mode 2 for 2T1S beamforming mode

Freq (MHz)	Mode	EIRP PSD (dBm/MHz)	Low Power Indoor Device Limit (dBm/MHz)
5955	802.11ax HEW20_Nss1,(MCS0)_2TX	4.76	5.00
6175	802.11ax HEW20_Nss1,(MCS0)_2TX	4.96	5.00
6415	802.11ax HEW20_Nss1,(MCS0)_2TX	4.99	5.00
6435	802.11ax HEW20_Nss1,(MCS0)_2TX	4.86	5.00
6475	802.11ax HEW20_Nss1,(MCS0)_2TX	4.86	5.00
6515	802.11ax HEW20_Nss1,(MCS0)_2TX	4.76	5.00
6535	802.11ax HEW20_Nss1,(MCS0)_2TX	4.89	5.00
6695	802.11ax HEW20_Nss1,(MCS0)_2TX	4.81	5.00
6855	802.11ax HEW20_Nss1,(MCS0)_2TX	4.77	5.00
6875	802.11ax HEW20_Nss1,(MCS0)_2TX	4.87	5.00
6895	802.11ax HEW20_Nss1,(MCS0)_2TX	4.81	5.00
6995	802.11ax HEW20_Nss1,(MCS0)_2TX	4.90	5.00
7095	802.11ax HEW20_Nss1,(MCS0)_2TX	4.93	5.00
5965	802.11ax HEW40_Nss1,(MCS0)_2TX	4.96	5.00
6165	802.11ax HEW40_Nss1,(MCS0)_2TX	4.86	5.00
6405	802.11ax HEW40_Nss1,(MCS0)_2TX	4.84	5.00
6445	802.11ax HEW40_Nss1,(MCS0)_2TX	4.90	5.00
6485	802.11ax HEW40_Nss1,(MCS0)_2TX	4.99	5.00
6525	802.11ax HEW40_Nss1,(MCS0)_2TX	4.94	5.00
6565	802.11ax HEW40_Nss1,(MCS0)_2TX	4.81	5.00
6685	802.11ax HEW40_Nss1,(MCS0)_2TX	4.98	5.00
6845	802.11ax HEW40_Nss1,(MCS0)_2TX	4.88	5.00
6885	802.11ax HEW40_Nss1,(MCS0)_2TX	4.87	5.00
6925	802.11ax HEW40_Nss1,(MCS0)_2TX	4.78	5.00
7005	802.11ax HEW40_Nss1,(MCS0)_2TX	4.79	5.00
7085	802.11ax HEW40_Nss1,(MCS0)_2TX	4.92	5.00
5985	802.11ax HEW80_Nss1,(MCS0)_2TX	4.80	5.00
6145	802.11ax HEW80_Nss1,(MCS0)_2TX	4.78	5.00
6385	802.11ax HEW80_Nss1,(MCS0)_2TX	4.87	5.00
6465	802.11ax HEW80_Nss1,(MCS0)_2TX	4.87	5.00
6545	802.11ax HEW80_Nss1,(MCS0)_2TX	4.94	5.00
6625	802.11ax HEW80_Nss1,(MCS0)_2TX	4.86	5.00
6705	802.11ax HEW80_Nss1,(MCS0)_2TX	4.98	5.00
6785	802.11ax HEW80_Nss1,(MCS0)_2TX	4.79	5.00
6865	802.11ax HEW80_Nss1,(MCS0)_2TX	4.83	5.00
6945	802.11ax HEW80_Nss1,(MCS0)_2TX	4.98	5.00
7025	802.11ax HEW80_Nss1,(MCS0)_2TX	4.82	5.00
6025	802.11ax HEW160_Nss1,(MCS0)_2TX	4.83	5.00
6185	802.11ax HEW160_Nss1,(MCS0)_2TX	4.93	5.00
6345	802.11ax HEW160_Nss1,(MCS0)_2TX	4.89	5.00
6505	802.11ax HEW160_Nss1,(MCS0)_2TX	4.92	5.00
6665	802.11ax HEW160_Nss1,(MCS0)_2TX	4.78	5.00
6825	802.11ax HEW160_Nss1,(MCS0)_2TX	4.85	5.00



PSD (E.I.R.P.) Result

Appendix D.2

6985	802.11ax HEW160_Nss1,(MCS0)_2TX	3.84	5.00
------	---------------------------------	------	------

For Mode 3 for 2T2S

Freq (MHz)	Mode	EIRP PSD (dBm/MHz)	Low Power Indoor Device Limit (dBm/MHz)
5955	802.11ax HEW20_Nss2,(MCS0)_2TX	4.96	5.00
6175	802.11ax HEW20_Nss2,(MCS0)_2TX	4.84	5.00
6415	802.11ax HEW20_Nss2,(MCS0)_2TX	4.86	5.00
6435	802.11ax HEW20_Nss2,(MCS0)_2TX	4.95	5.00
6475	802.11ax HEW20_Nss2,(MCS0)_2TX	4.90	5.00
6515	802.11ax HEW20_Nss2,(MCS0)_2TX	4.99	5.00
6535	802.11ax HEW20_Nss2,(MCS0)_2TX	4.96	5.00
6695	802.11ax HEW20_Nss2,(MCS0)_2TX	4.81	5.00
6855	802.11ax HEW20_Nss2,(MCS0)_2TX	4.96	5.00
6875	802.11ax HEW20_Nss2,(MCS0)_2TX	4.98	5.00
6895	802.11ax HEW20_Nss2,(MCS0)_2TX	4.86	5.00
6995	802.11ax HEW20_Nss2,(MCS0)_2TX	4.83	5.00
7095	802.11ax HEW20_Nss2,(MCS0)_2TX	4.80	5.00
5965	802.11ax HEW40_Nss2,(MCS0)_2TX	4.93	5.00
6165	802.11ax HEW40_Nss2,(MCS0)_2TX	4.78	5.00
6405	802.11ax HEW40_Nss2,(MCS0)_2TX	4.94	5.00
6445	802.11ax HEW40_Nss2,(MCS0)_2TX	4.77	5.00
6485	802.11ax HEW40_Nss2,(MCS0)_2TX	4.91	5.00
6525	802.11ax HEW40_Nss2,(MCS0)_2TX	4.88	5.00
6565	802.11ax HEW40_Nss2,(MCS0)_2TX	4.88	5.00
6685	802.11ax HEW40_Nss2,(MCS0)_2TX	4.93	5.00
6845	802.11ax HEW40_Nss2,(MCS0)_2TX	4.90	5.00
6885	802.11ax HEW40_Nss2,(MCS0)_2TX	4.84	5.00
6925	802.11ax HEW40_Nss2,(MCS0)_2TX	4.93	5.00
7005	802.11ax HEW40_Nss2,(MCS0)_2TX	4.90	5.00
7085	802.11ax HEW40_Nss2,(MCS0)_2TX	4.82	5.00
5985	802.11ax HEW80_Nss2,(MCS0)_2TX	4.83	5.00
6145	802.11ax HEW80_Nss2,(MCS0)_2TX	4.92	5.00
6385	802.11ax HEW80_Nss2,(MCS0)_2TX	4.99	5.00
6465	802.11ax HEW80_Nss2,(MCS0)_2TX	4.89	5.00
6545	802.11ax HEW80_Nss2,(MCS0)_2TX	4.82	5.00
6625	802.11ax HEW80_Nss2,(MCS0)_2TX	4.93	5.00
6705	802.11ax HEW80_Nss2,(MCS0)_2TX	4.79	5.00
6785	802.11ax HEW80_Nss2,(MCS0)_2TX	4.82	5.00
6865	802.11ax HEW80_Nss2,(MCS0)_2TX	4.87	5.00
6945	802.11ax HEW80_Nss2,(MCS0)_2TX	4.90	5.00
7025	802.11ax HEW80_Nss2,(MCS0)_2TX	4.80	5.00
6025	802.11ax HEW160_Nss2,(MCS0)_2TX	3.58	5.00
6185	802.11ax HEW160_Nss2,(MCS0)_2TX	4.96	5.00
6345	802.11ax HEW160_Nss2,(MCS0)_2TX	4.85	5.00
6505	802.11ax HEW160_Nss2,(MCS0)_2TX	4.86	5.00
6665	802.11ax HEW160_Nss2,(MCS0)_2TX	4.99	5.00
6825	802.11ax HEW160_Nss2,(MCS0)_2TX	4.96	5.00



PSD (E.I.R.P.) Result

Appendix D.3

6985	802.11ax HEW160_Nss2,(MCS0)_2TX	3.49	5.00
------	---------------------------------	------	------



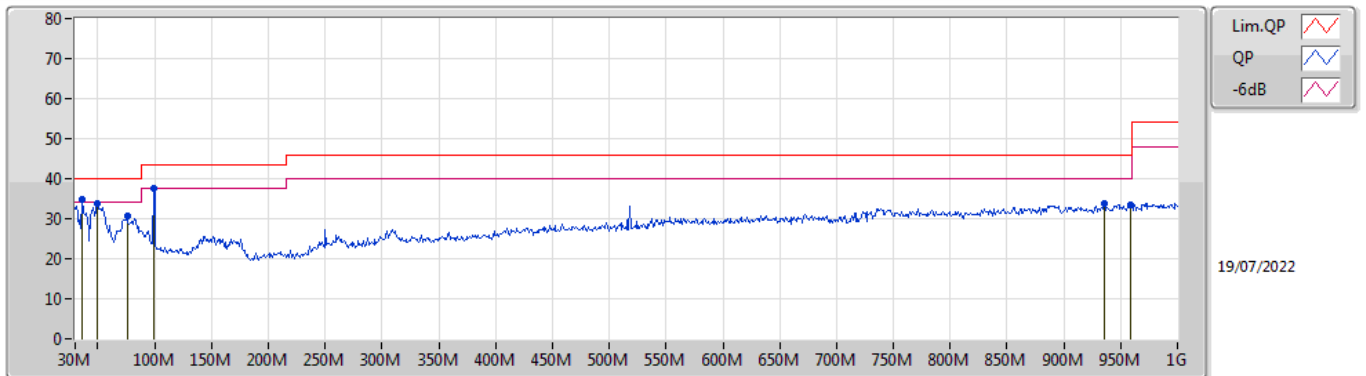
Radiated Emissions below 1GHz

Appendix E.1

Summary

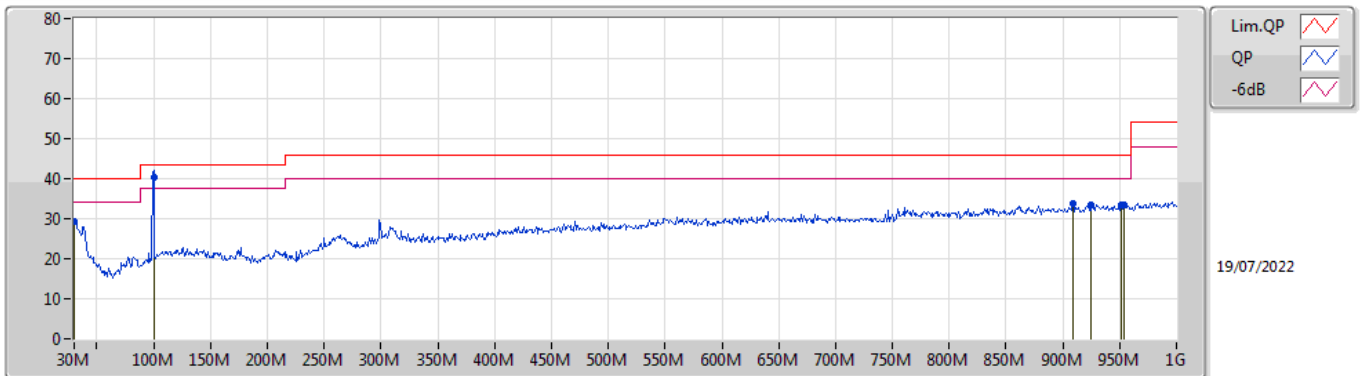
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 4	Pass	QP	99.84M	40.43	43.50	-3.07	Horizontal

Mode 4



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV/m)	AF (dB/m)	CL (dB)	PA (dB)
PK	35.82M	34.99	40.00	-5.01	-5.66	3	Vertical	135	3.00	"Worst"	40.65	21.50	1.30	28.46
PK	49.4M	33.80	40.00	-6.20	-12.65	3	Vertical	272	1.00	-	46.45	14.52	1.31	28.48
PK	75.59M	30.57	40.00	-9.43	-14.32	3	Vertical	133	1.25	-	44.89	12.73	1.49	28.54
PK	98.87M	37.49	43.50	-6.01	-10.61	3	Vertical	320	1.00	-	48.10	16.23	1.60	28.44
PK	935.98M	33.84	46.00	-12.16	2.06	3	Vertical	296	3.00	-	31.78	26.59	4.07	28.60
PK	958.29M	33.40	46.00	-12.60	2.43	3	Vertical	321	1.50	-	30.97	26.83	4.12	28.52

Mode 4



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV/m)	AF (dB/m)	CL (dB)	PA (dB)
PK	30M	29.35	40.00	-10.65	-2.07	3	Horizontal	104	1.00	-	31.42	25.20	1.20	28.47
QP	99.84M	40.43	43.50	-3.07	-10.45	3	Horizontal	0	1.50	"Worst"	50.88	16.38	1.60	28.43
PK	908.82M	33.94	46.00	-12.06	1.84	3	Horizontal	293	1.25	-	32.10	26.45	4.02	28.63
PK	924.34M	33.59	46.00	-12.41	1.88	3	Horizontal	113	1.50	-	31.71	26.44	4.05	28.61
PK	951.5M	33.50	46.00	-12.50	2.27	3	Horizontal	112	1.25	-	31.23	26.74	4.10	28.57
PK	953.44M	33.37	46.00	-12.63	2.33	3	Horizontal	236	1.25	-	31.04	26.78	4.11	28.56



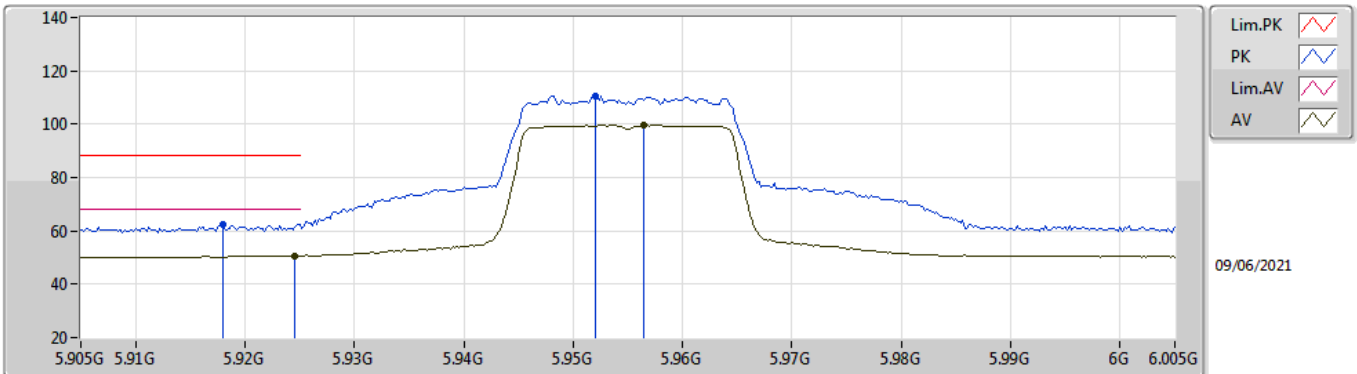
For Scanning radio 3 / 1T1S

Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
6.525-6.875GHz	-	-	-	-	-	-	-	-	-	-	-
802.11ax HEW160_Nss1,(MCS0)_1TX	Pass	AV	7.25G	53.98	54.00	-0.02	3	Vertical	179	2.40	-

802.11ax HEW20_Nss1,(MCS0)_1TX

5955MHz_TX

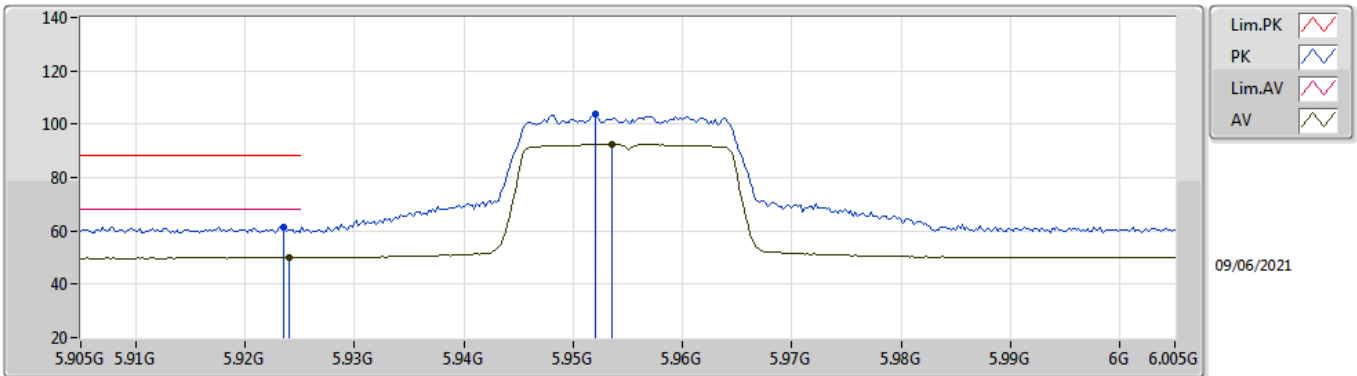


EUT_Z_1TX
Setting 54
04-A-R-5-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	5.918G	62.52	88.20	-25.68	54.33	3	Vertical	134	2.89	-	34.87	6.12	32.80	
RMS	5.9246G	50.68	68.20	-17.52	42.47	3	Vertical	134	2.89	-	34.90	6.12	32.81	
PK	5.952G	110.68	Inf	-Inf	102.33	3	Vertical	134	2.89	-	35.01	6.15	32.81	
RMS	5.9564G	99.50	Inf	-Inf	91.13	3	Vertical	134	2.89	-	35.03	6.16	32.82	

802.11ax HEW20_Nss1,(MCS0)_1TX

5955MHz_TX

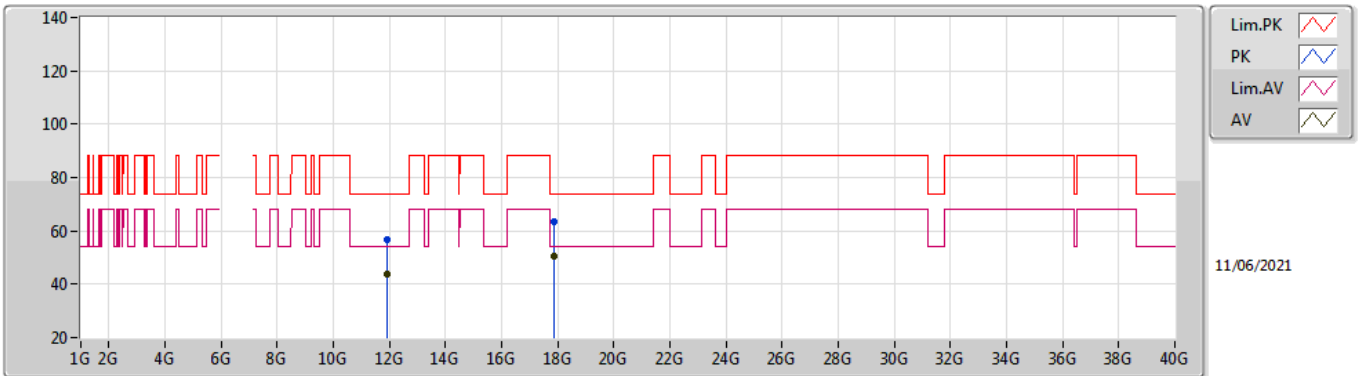


EUT_Z_1TX
Setting 54
04-A-R-5-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	5.9236G	61.63	88.20	-26.57	53.43	3	Horizontal	162	2.78	-	34.89	6.12	32.81	
RMS	5.924G	50.02	68.20	-18.18	41.81	3	Horizontal	162	2.78	-	34.90	6.12	32.81	
PK	5.952G	103.67	Inf	-Inf	95.32	3	Horizontal	162	2.78	-	35.01	6.15	32.81	
RMS	5.9536G	92.41	Inf	-Inf	84.07	3	Horizontal	162	2.78	-	35.01	6.15	32.82	

802.11ax HEW20_Nss1,(MCS0)_1TX

5955MHz_TX

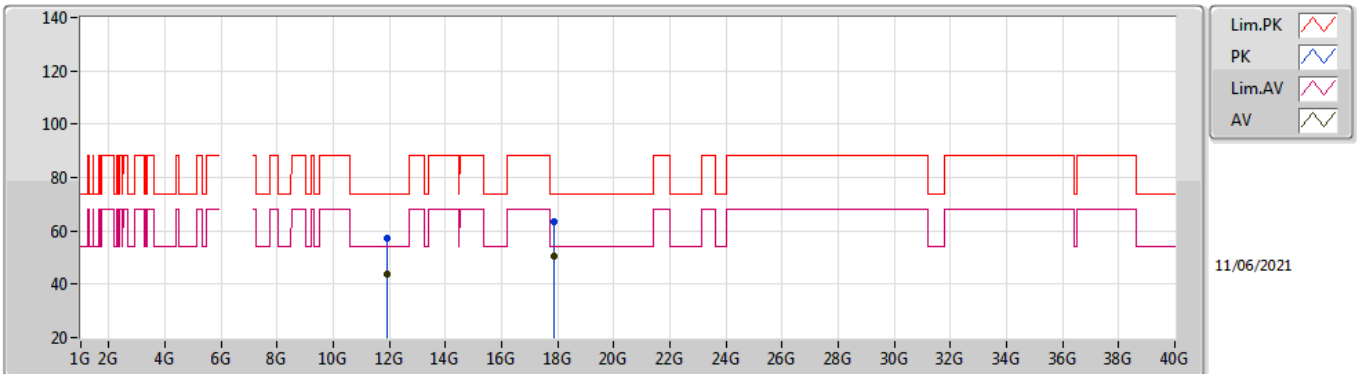


EUT_Z_1TX
Setting 54
04-F-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	11.90934G	56.64	74.00	-17.36	42.52	3	Vertical	354	1.98	-	38.89	9.55	34.32	
AV	11.91192G	43.78	54.00	-10.22	29.66	3	Vertical	354	1.98	-	38.89	9.56	34.33	
PK	17.85774G	63.44	74.00	-10.56	42.72	3	Vertical	231	1.44	-	41.62	13.59	34.49	
AV	17.87328G	50.52	54.00	-3.48	29.77	3	Vertical	231	1.44	-	41.65	13.60	34.50	

802.11ax HEW20_Nss1,(MCS0)_1TX

5955MHz_TX

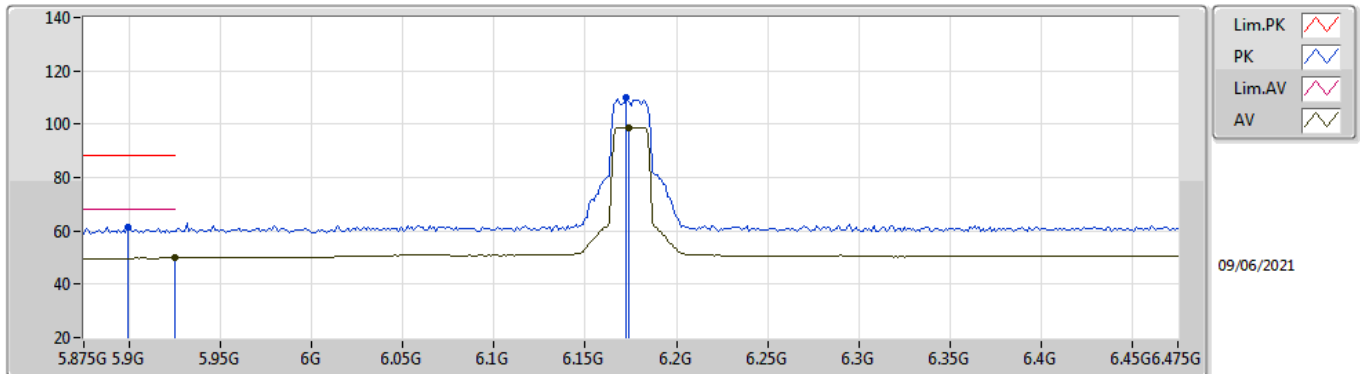


EUT_Z_1TX
Setting 54
04-F-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	11.8974G	57.12	74.00	-16.88	42.99	3	Horizontal	355	1.80	-	38.90	9.55	34.32
AV	11.91474G	43.57	54.00	-10.43	29.45	3	Horizontal	355	1.80	-	38.89	9.56	34.33
PK	17.87418G	63.58	74.00	-10.42	42.83	3	Horizontal	358	1.43	-	41.65	13.60	34.50
AV	17.85732G	50.70	54.00	-3.30	29.99	3	Horizontal	358	1.43	-	41.61	13.59	34.49

802.11ax HEW20_Nss1,(MCS0)_1TX

6175MHz_TX

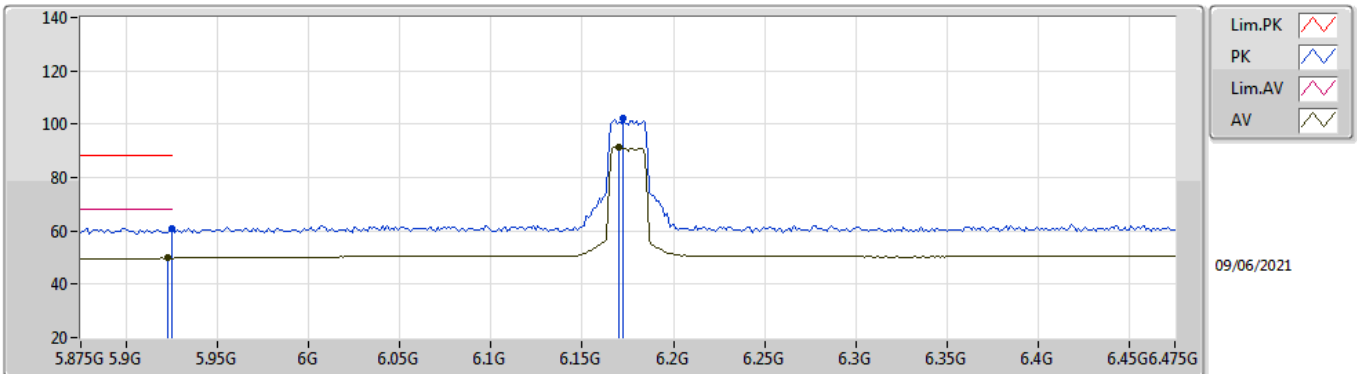


EUT Z_1TX
Setting 61
04-A-R-5-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	5.899G	61.22	88.20	-26.98	53.13	3	Vertical	179	2.40	-	34.79	6.10	32.80	
RMS	5.925G	49.86	68.20	-18.34	41.65	3	Vertical	179	2.40	-	34.90	6.12	32.81	
PK	6.1726G	110.09	Inf	-Inf	101.39	3	Vertical	179	2.40	-	35.39	6.20	32.89	
RMS	6.1738G	98.87	Inf	-Inf	90.16	3	Vertical	179	2.40	-	35.40	6.20	32.89	

802.11ax HEW20_Nss1,(MCS0)_1TX

6175MHz_TX

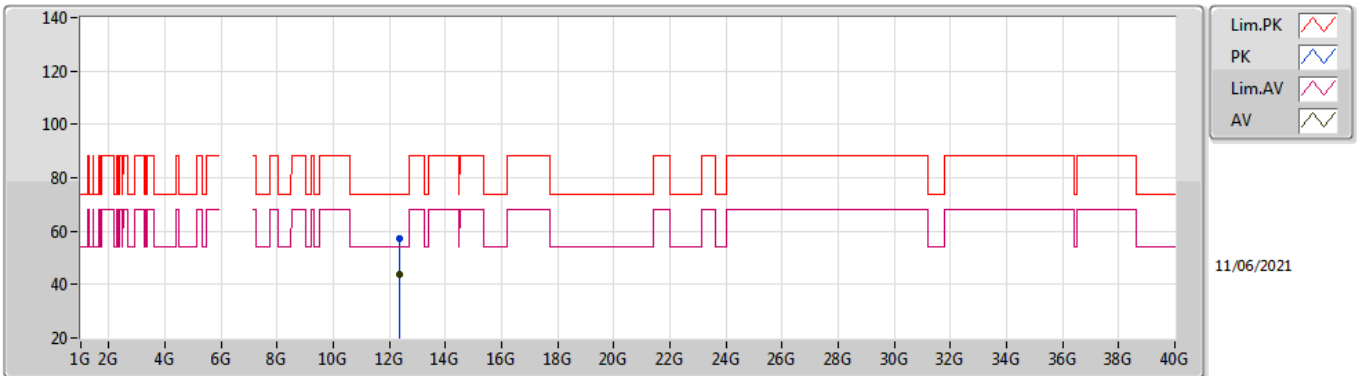


EUT Z_1TX
Setting 61
04-A-R-5-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	5.925G	61.11	88.20	-27.09	52.90	3	Horizontal	240	1.00	-	34.90	6.12	32.81	
RMS	5.923G	49.80	68.20	-18.40	41.60	3	Horizontal	240	1.00	-	34.89	6.12	32.81	
PK	6.1726G	102.29	Inf	-Inf	93.59	3	Horizontal	240	1.00	-	35.39	6.20	32.89	
RMS	6.1702G	91.35	Inf	-Inf	82.66	3	Horizontal	240	1.00	-	35.38	6.20	32.89	

802.11ax HEW20_Nss1,(MCS0)_1TX

6175MHz_TX

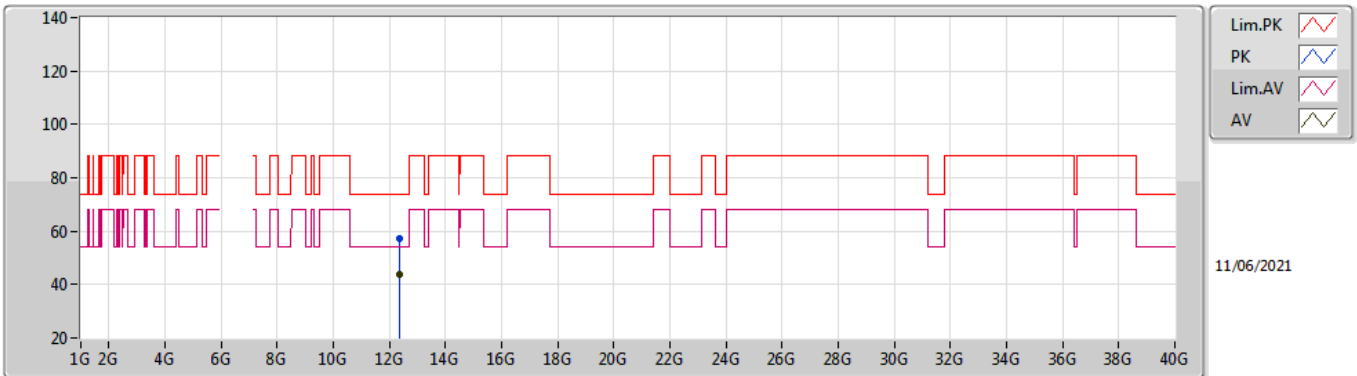


EUT_Z_1TX
Setting 61
04-F-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	12.3368G	57.34	74.00	-16.66	43.08	3	Vertical	360	1.83	-	38.70	9.77	34.21
AV	12.34832G	43.87	54.00	-10.13	29.61	3	Vertical	360	1.83	-	38.70	9.77	34.21

802.11ax HEW20_Nss1,(MCS0)_1TX

6175MHz_TX

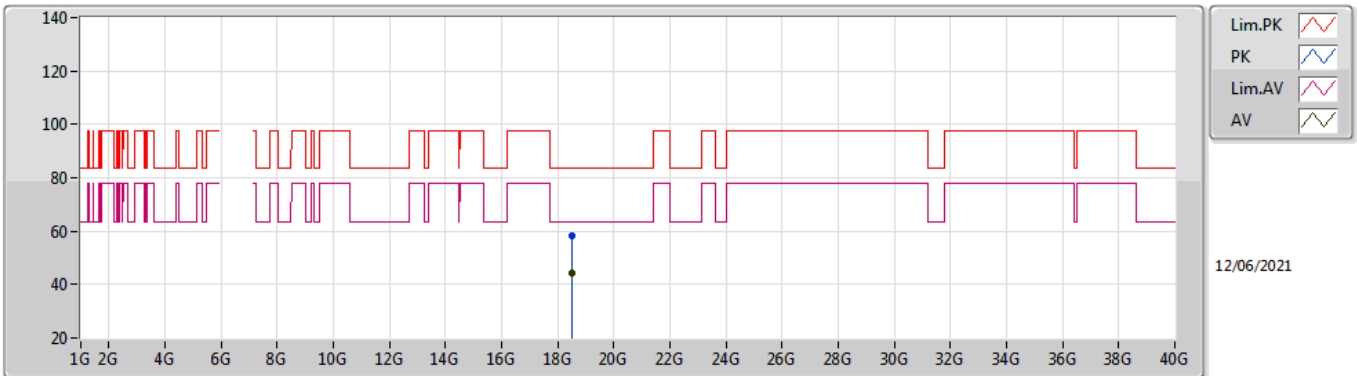


EUT_Z_1TX
Setting 61
04-F-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	12.34466G	57.12	74.00	-16.88	42.86	3	Horizontal	318	2.20	-	38.70	9.77	34.21
AV	12.34262G	43.88	54.00	-10.12	29.62	3	Horizontal	318	2.20	-	38.70	9.77	34.21

802.11ax HEW20_Nss1,(MCS0)_1TX

6175MHz_TX

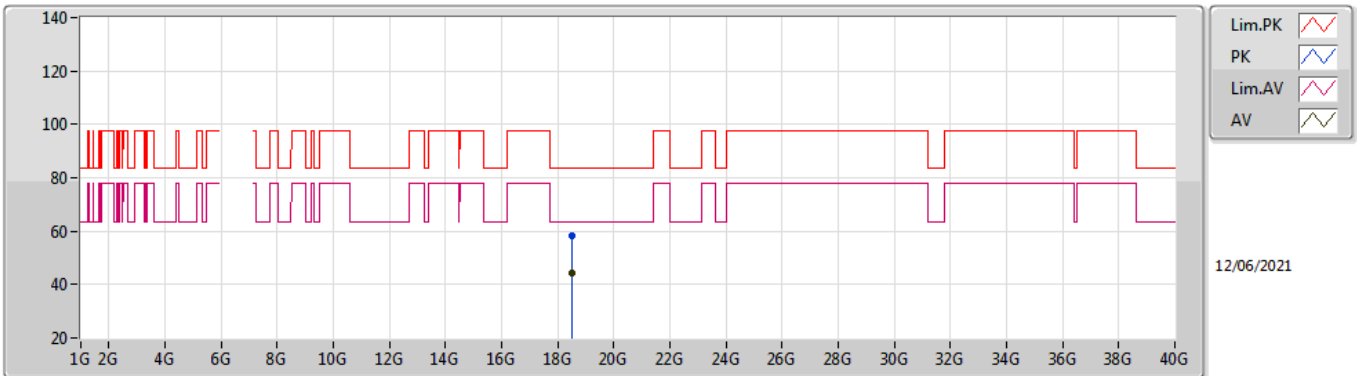


EUT_Z_1TX
Setting 61
04-F-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	18.5178G	58.25	83.54	-25.29	56.58	1	Vertical	59	1.50	-	37.72	14.25	50.30	
AV	18.51816G	44.45	63.54	-19.09	42.77	1	Vertical	59	1.50	-	37.73	14.25	50.30	

802.11ax HEW20_Nss1,(MCS0)_1TX

6175MHz_TX

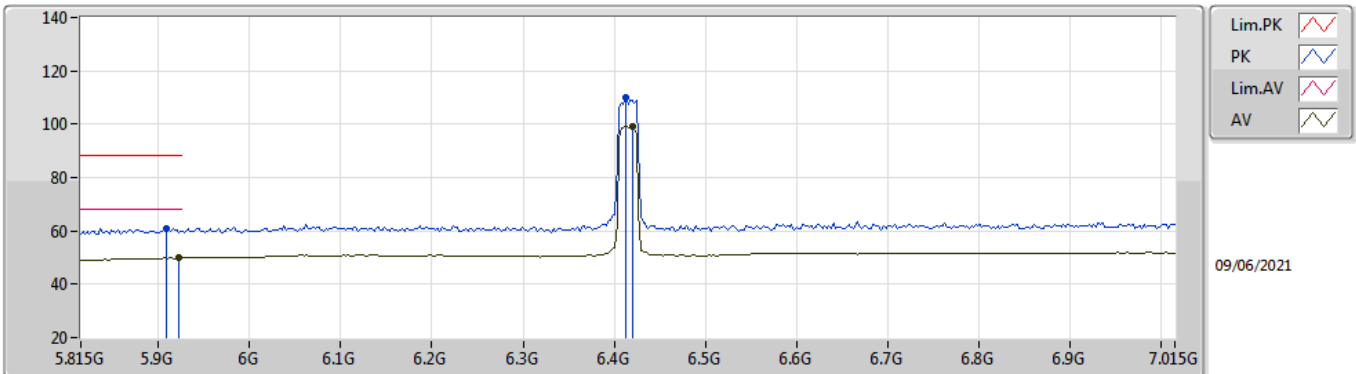


EUT_Z_1TX
Setting 61
04-F-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	18.53022G	58.15	83.54	-25.39	56.45	1	Horizontal	232	1.50	-	37.74	14.25	50.29
AV	18.51486G	44.30	63.54	-19.24	42.63	1	Horizontal	232	1.50	-	37.72	14.25	50.30

802.11ax HEW20_Nss1,(MCS0)_1TX

6415MHz_TX

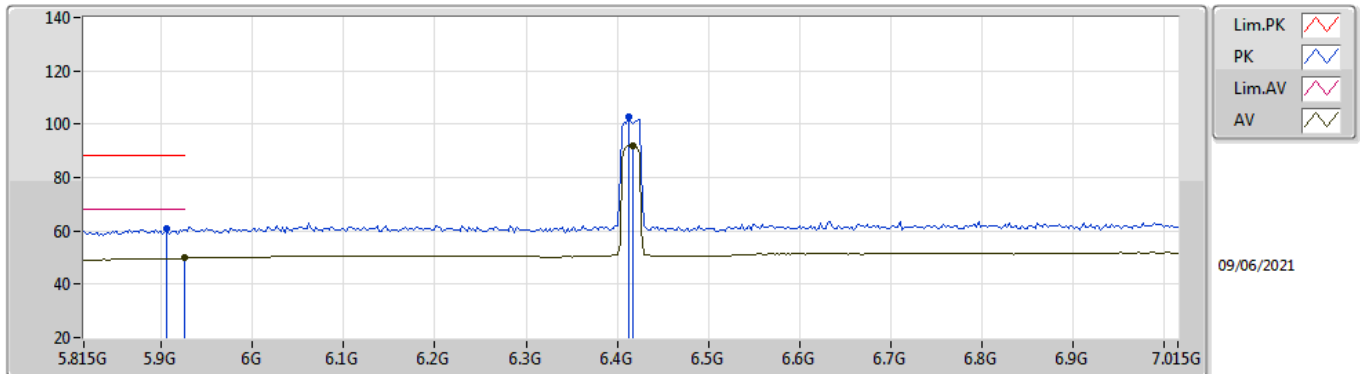


EUT Z_1TX
Setting 53
04-A-R-5-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	5.9086G	61.03	88.20	-27.17	52.89	3	Vertical	179	2.55	-	34.83	6.11	32.80	
RMS	5.923G	49.89	68.20	-18.31	41.69	3	Vertical	179	2.55	-	34.89	6.12	32.81	
PK	6.4126G	109.86	Inf	-Inf	101.01	3	Vertical	179	2.55	-	35.43	6.40	32.98	
RMS	6.4198G	99.17	Inf	-Inf	90.31	3	Vertical	179	2.55	-	35.44	6.40	32.98	

802.11ax HEW20_Nss1,(MCS0)_1TX

6415MHz_TX

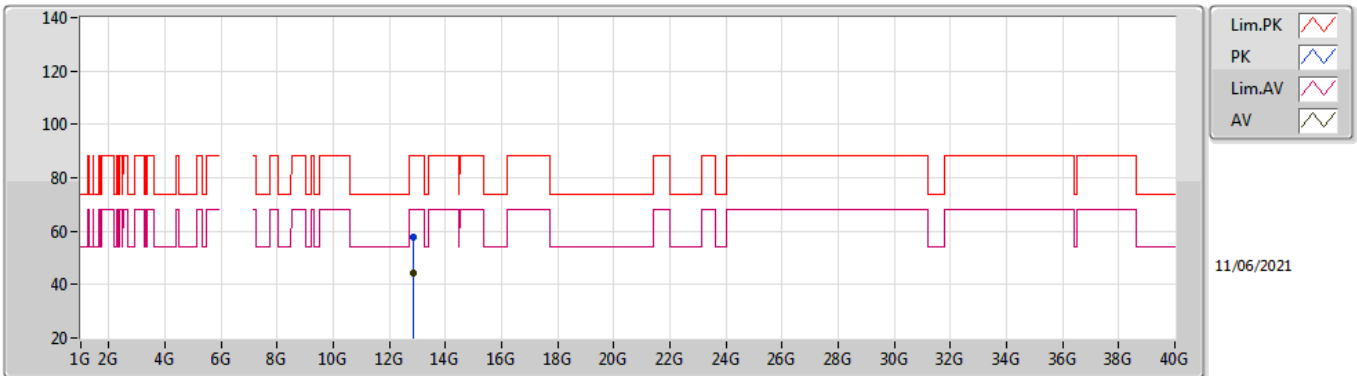


EUT_Z_1TX
Setting 53
04-A-R-5-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	5.9062G	60.76	88.20	-27.44	52.63	3	Horizontal	161	2.69	-	34.82	6.11	32.80
RMS	5.925G	49.81	68.20	-18.39	41.60	3	Horizontal	161	2.69	-	34.90	6.12	32.81
PK	6.4126G	102.82	Inf	-Inf	93.97	3	Horizontal	161	2.69	-	35.43	6.40	32.98
RMS	6.4174G	91.93	Inf	-Inf	83.08	3	Horizontal	161	2.69	-	35.43	6.40	32.98

802.11ax HEW20_Nss1,(MCS0)_1TX

6415MHz_TX

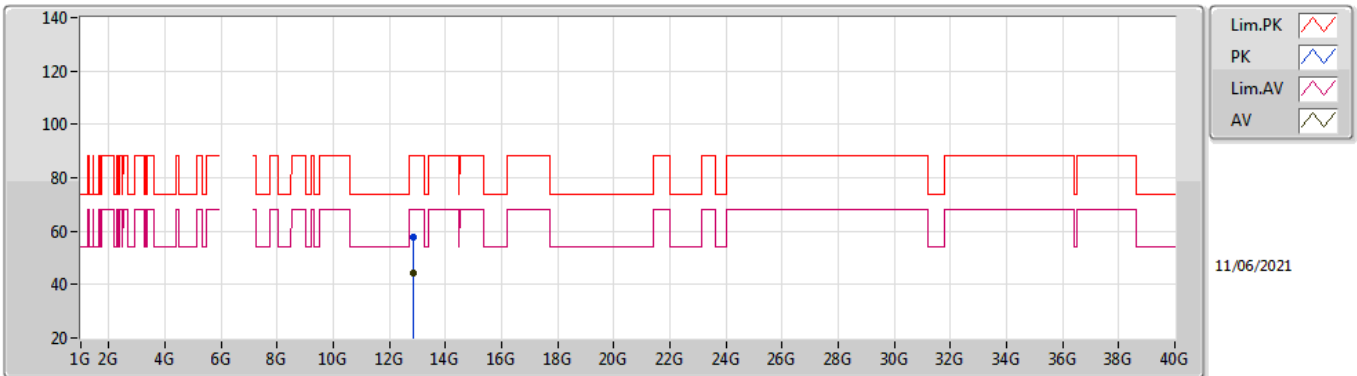


EUT_Z_1TX
Setting 53
04-F-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	12.83372G	57.62	88.20	-30.58	42.41	3	Vertical	1	1.45	-	39.27	10.02	34.08
RMS	12.83348G	44.56	68.20	-23.64	29.35	3	Vertical	1	1.45	-	39.27	10.02	34.08

802.11ax HEW20_Nss1,(MCS0)_1TX

6415MHz_TX

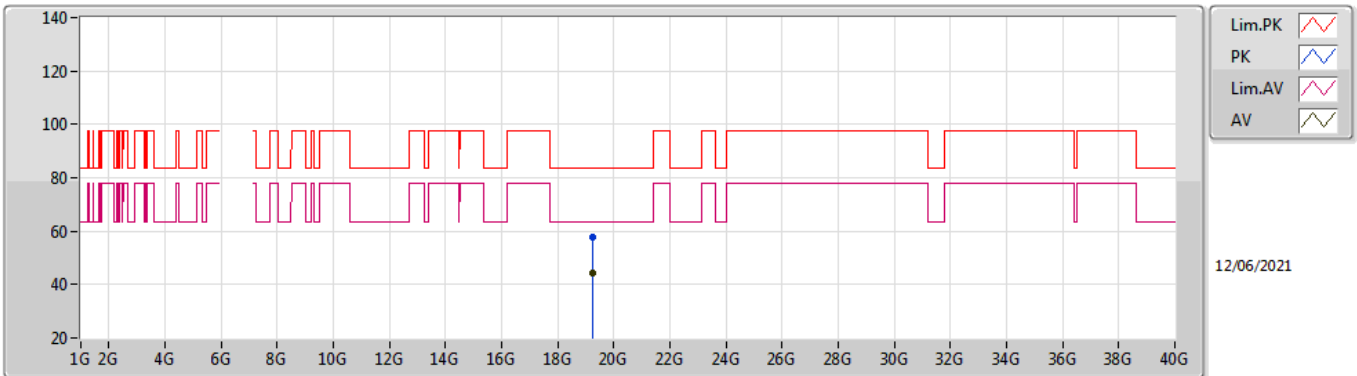


EUT_Z_1TX
Setting 53
04-F-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	12.84056G	57.59	88.20	-30.61	42.37	3	Horizontal	310	1.67	-	39.28	10.02	34.08
RMS	12.84482G	44.44	68.20	-23.76	29.20	3	Horizontal	310	1.67	-	39.29	10.02	34.07

802.11ax HEW20_Nss1,(MCS0)_1TX

6415MHz_TX

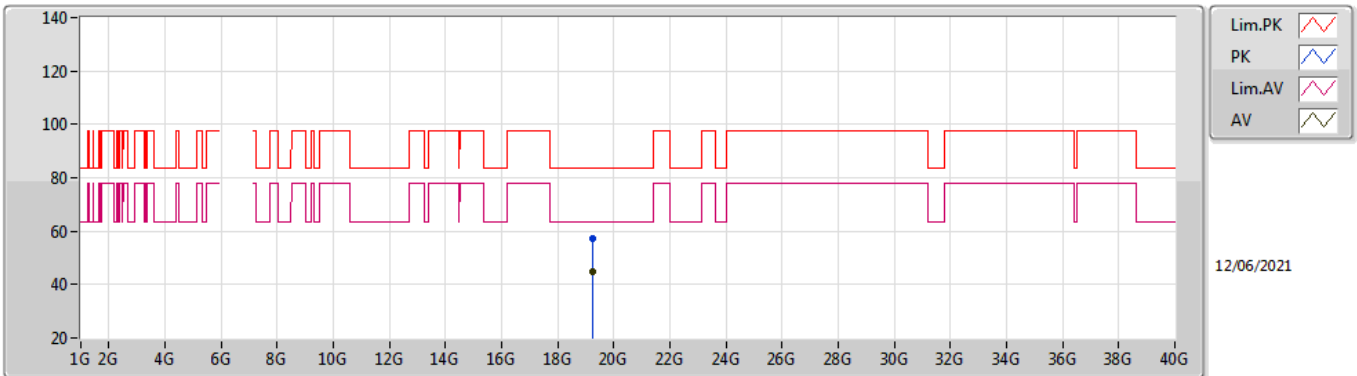


EUT_Z_1TX
Setting 53
04-F-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	19.2462G	58.00	83.54	-25.54	55.73	1	Vertical	353	2.97	-	38.10	14.32	50.15	
AV	19.25116G	44.46	63.54	-19.08	42.18	1	Vertical	353	2.97	-	38.10	14.33	50.15	

802.11ax HEW20_Nss1,(MCS0)_1TX

6415MHz_TX

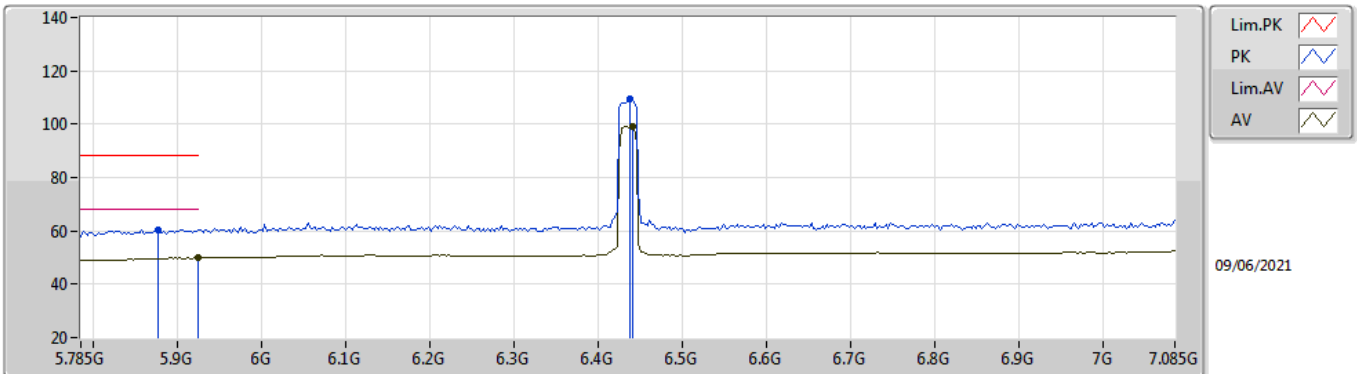


EUT Z_1TX
Setting 53
04-F-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	19.23532G	57.13	83.54	-26.41	54.84	1	Horizontal	272	1.82	-	38.12	14.32	50.15
AV	19.25272G	44.64	63.54	-18.90	42.36	1	Horizontal	272	1.82	-	38.10	14.33	50.15

802.11ax HEW20_Nss1,(MCS0)_1TX

6435MHz_TX

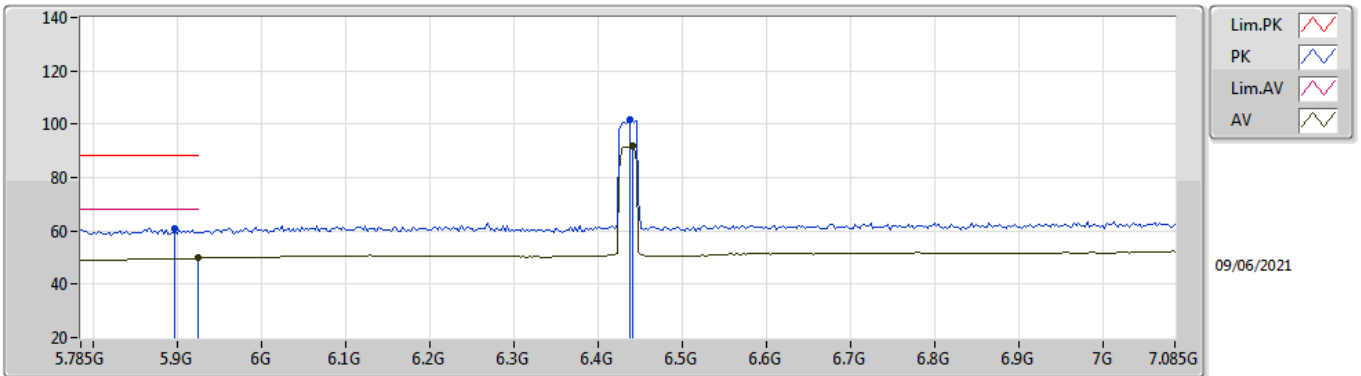


EUT_Z_1TX
Setting 53
04-A-R-5-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	5.876G	60.59	88.20	-27.61	52.64	3	Vertical	177	2.31	-	34.66	6.08	32.79	
RMS	5.925G	49.89	68.20	-18.31	41.68	3	Vertical	177	2.31	-	34.90	6.12	32.81	
PK	6.4376G	109.36	Inf	-Inf	100.47	3	Vertical	177	2.31	-	35.48	6.40	32.99	
RMS	6.4402G	99.16	Inf	-Inf	90.27	3	Vertical	177	2.31	-	35.48	6.40	32.99	

802.11ax HEW20_Nss1,(MCS0)_1TX

6435MHz_TX

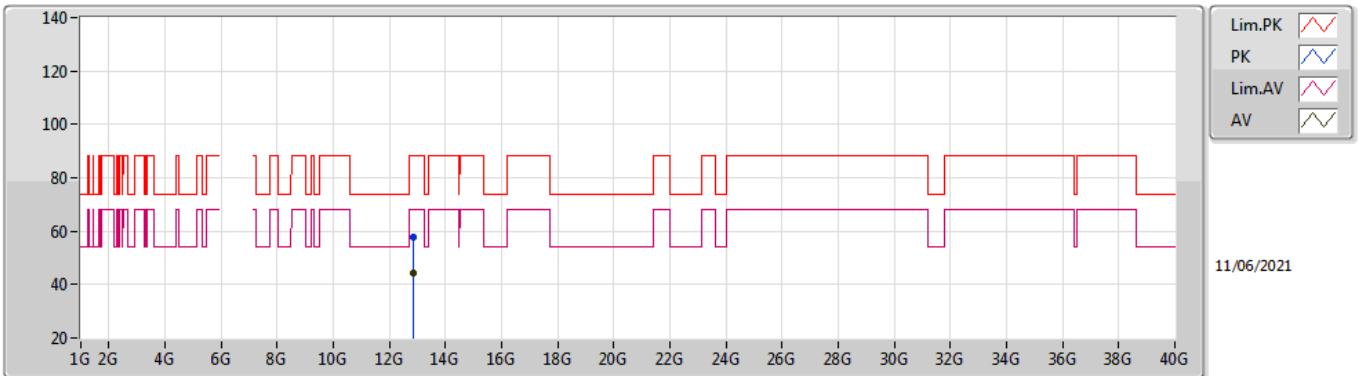


EUT_Z_1TX
Setting 53
04-A-R-5-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	5.8968G	61.08	88.20	-27.12	53.00	3	Horizontal	162	2.64	-	34.78	6.10	32.80
RMS	5.925G	49.83	68.20	-18.37	41.62	3	Horizontal	162	2.64	-	34.90	6.12	32.81
PK	6.4376G	101.87	Inf	-Inf	92.98	3	Horizontal	162	2.64	-	35.48	6.40	32.99
RMS	6.4402G	91.93	Inf	-Inf	83.04	3	Horizontal	162	2.64	-	35.48	6.40	32.99

802.11ax HEW20_Nss1,(MCS0)_1TX

6435MHz_TX

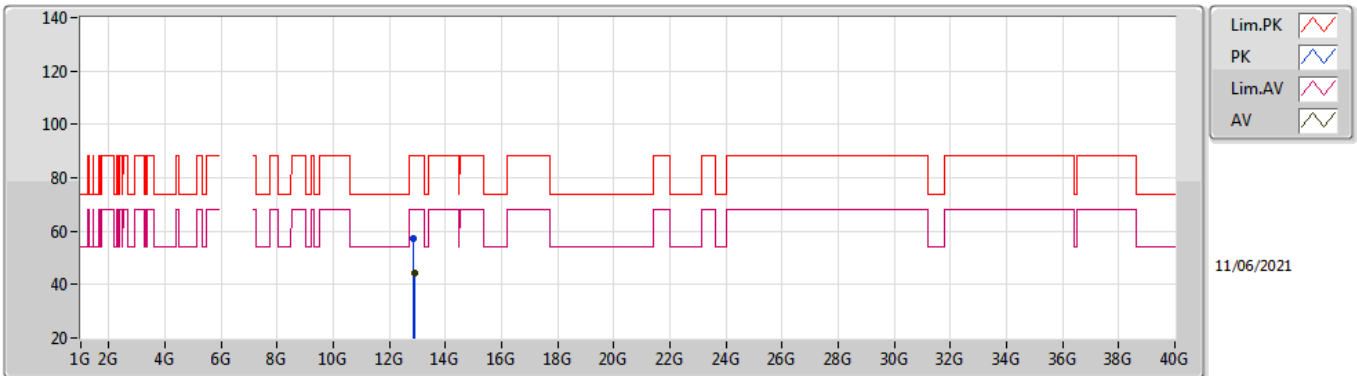


EUT_Z_1TX
Setting 53
04-F-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	12.86956G	57.61	88.20	-30.59	42.31	3	Vertical	160	1.92	-	39.34	10.03	34.07
RMS	12.8636G	44.33	68.20	-23.87	29.04	3	Vertical	160	1.92	-	39.33	10.03	34.07

802.11ax HEW20_Nss1,(MCS0)_1TX

6435MHz_TX

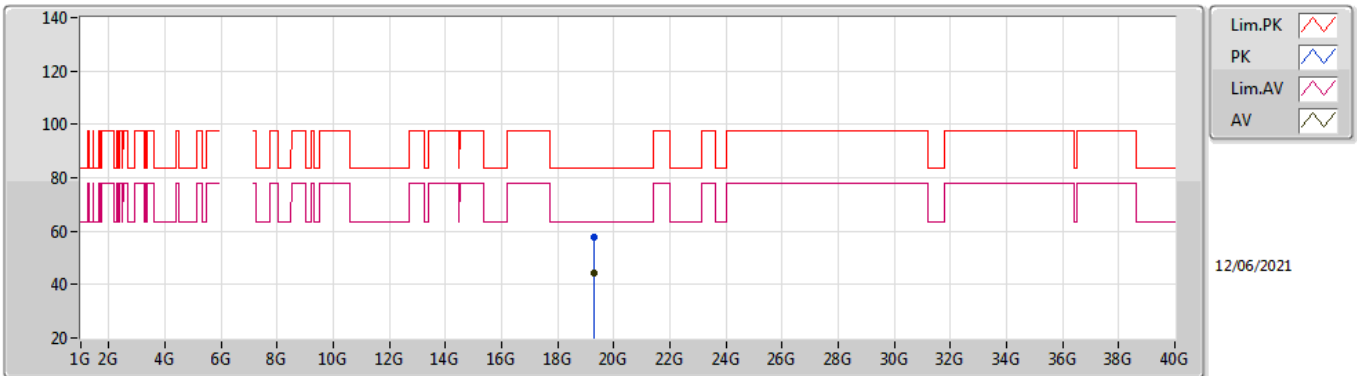


EUT_Z_1TX
Setting 53
04-F-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	12.86856G	57.50	88.20	-30.70	42.20	3	Horizontal	40	1.54	-	39.34	10.03	34.07
RMS	12.87864G	44.48	68.20	-23.72	29.15	3	Horizontal	40	1.54	-	39.36	10.04	34.07

802.11ax HEW20_Nss1,(MCS0)_1TX

6435MHz_TX

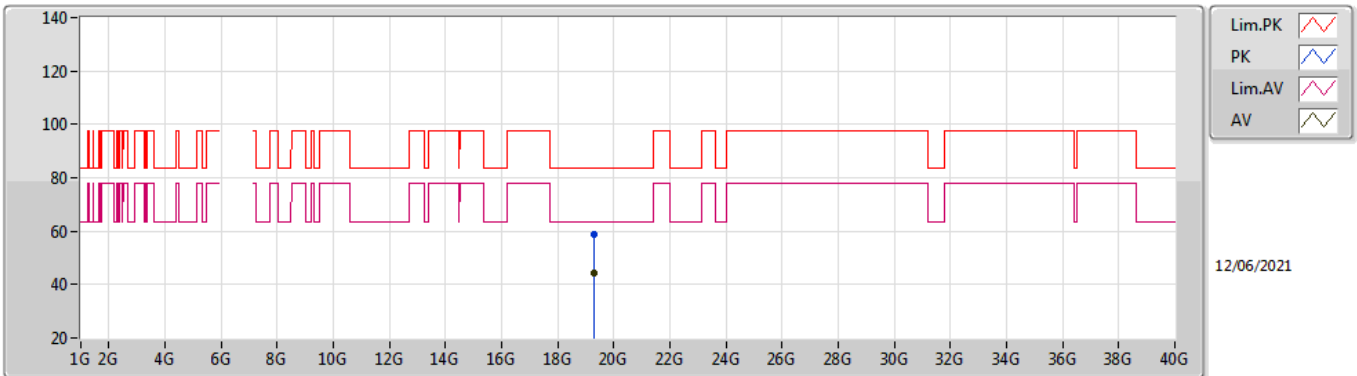


EUT_Z_1TX
Setting 53
04-F-S-5

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA	
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)	
PK	19.30336G	57.61	83.54	-25.93	55.38	1	Vertical	297	2.82	-	38.04	14.33	50.14	
AV	19.3052G	44.46	63.54	-19.08	42.24	1	Vertical	297	2.82	-	38.03	14.33	50.14	

802.11ax HEW20_Nss1,(MCS0)_1TX

6435MHz_TX

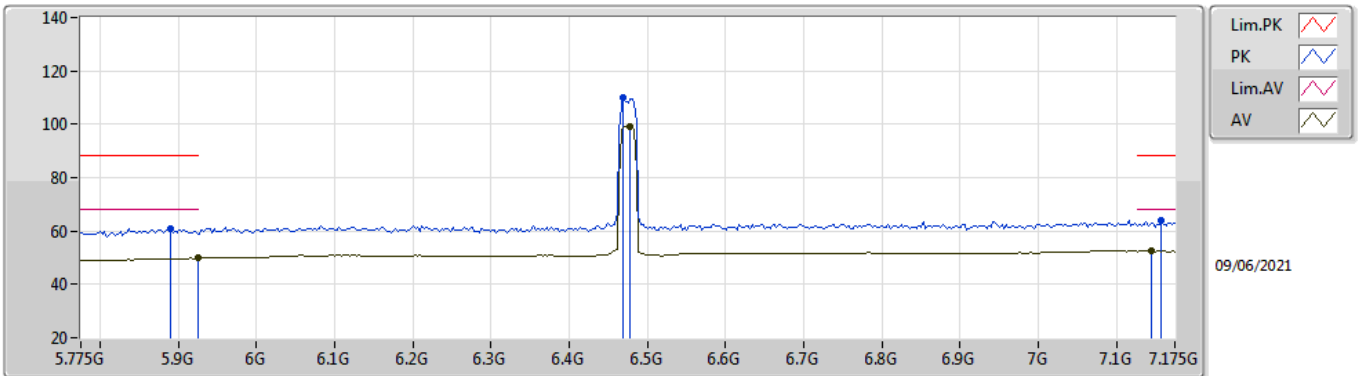


EUT_Z_1TX
Setting 53
04-F-S-5

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA	
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)	
PK	19.30308G	58.77	83.54	-24.77	56.54	1	Horizontal	33	1.53	-	38.04	14.33	50.14	
AV	19.2978G	44.41	63.54	-19.13	42.18	1	Horizontal	33	1.53	-	38.04	14.33	50.14	

802.11ax HEW20_Nss1,(MCS0)_1TX

6475MHz_TX

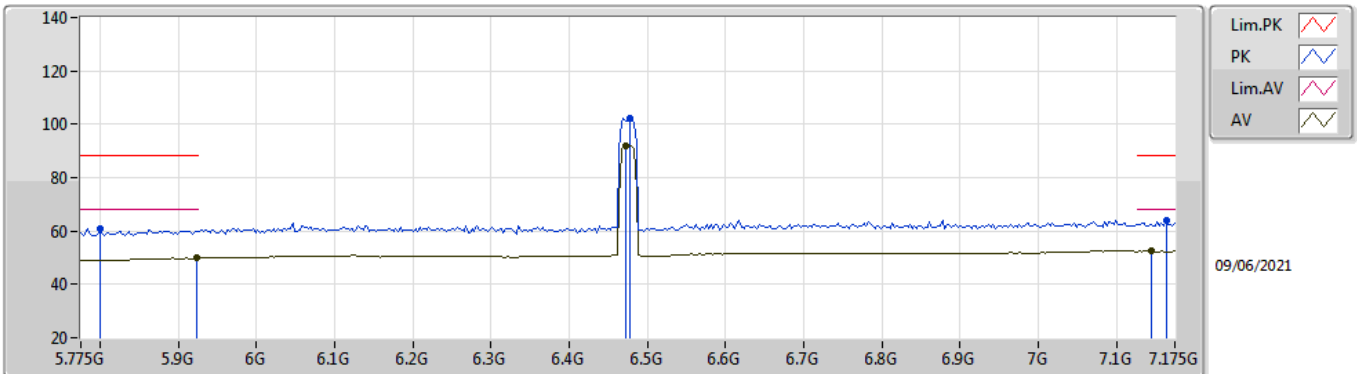


EUT_Z_1TX
Setting 54
04-A-R-5-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	5.8898G	60.87	88.20	-27.33	52.83	3	Vertical	178	2.45	-	34.74	6.09	32.79
RMS	5.925G	49.82	68.20	-18.38	41.61	3	Vertical	178	2.45	-	34.90	6.12	32.81
PK	6.4694G	109.85	Inf	-Inf	100.91	3	Vertical	178	2.45	-	35.54	6.40	33.00
RMS	6.4778G	99.15	Inf	-Inf	90.19	3	Vertical	178	2.45	-	35.56	6.40	33.00
PK	7.1582G	64.17	88.20	-24.03	53.58	3	Vertical	178	2.45	-	37.03	6.78	33.22
RMS	7.1442G	52.53	68.20	-15.67	41.99	3	Vertical	178	2.45	-	36.98	6.77	33.21

802.11ax HEW20_Nss1,(MCS0)_1TX

6475MHz_TX

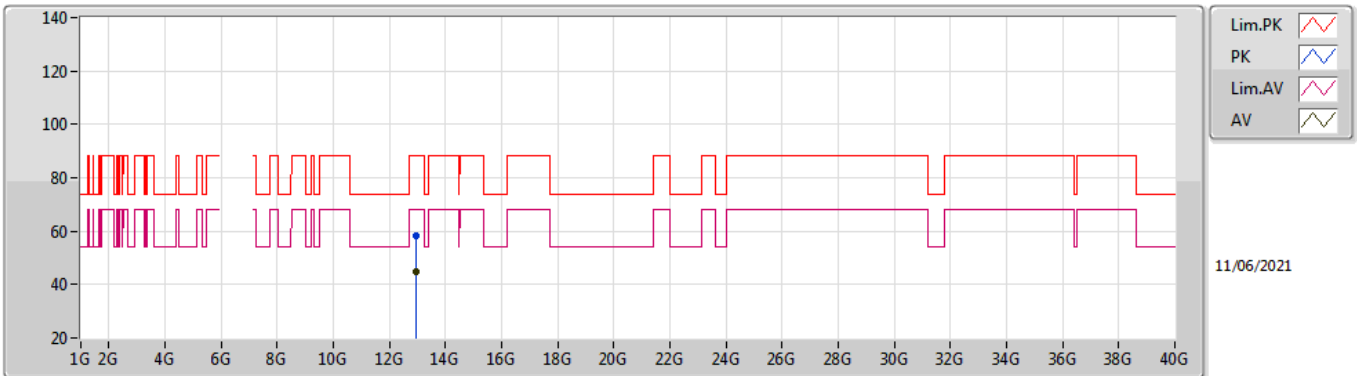


EUT_Z_1TX
Setting 54
04-A-R-5-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	5.8002G	60.70	88.20	-27.50	53.27	3	Horizontal	161	2.54	-	34.20	6.00	32.77
RMS	5.9234G	49.76	68.20	-18.44	41.56	3	Horizontal	161	2.54	-	34.89	6.12	32.81
PK	6.4778G	102.39	Inf	-Inf	93.43	3	Horizontal	161	2.54	-	35.56	6.40	33.00
RMS	6.4722G	91.89	Inf	-Inf	82.95	3	Horizontal	161	2.54	-	35.54	6.40	33.00
PK	7.1638G	63.84	88.20	-24.36	53.22	3	Horizontal	161	2.54	-	37.06	6.78	33.22
RMS	7.1442G	52.55	68.20	-15.65	42.01	3	Horizontal	161	2.54	-	36.98	6.77	33.21

802.11ax HEW20_Nss1,(MCS0)_1TX

6475MHz_TX

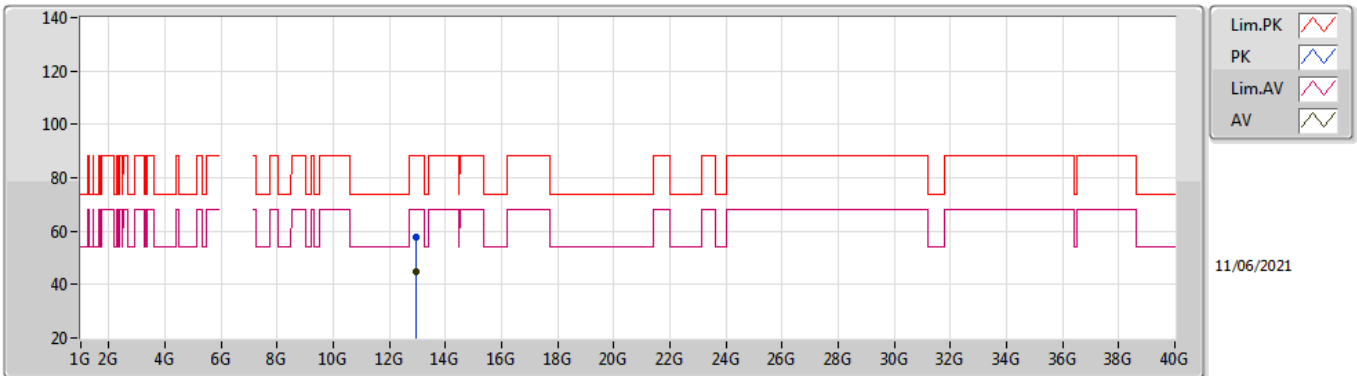


EUT_Z_1TX
Setting 54
04-F-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	12.95696G	58.32	88.20	-29.88	42.79	3	Vertical	252	2.71	-	39.51	10.08	34.06
RMS	12.95964G	44.90	68.20	-23.30	29.36	3	Vertical	252	2.71	-	39.52	10.08	34.06

802.11ax HEW20_Nss1,(MCS0)_1TX

6475MHz_TX

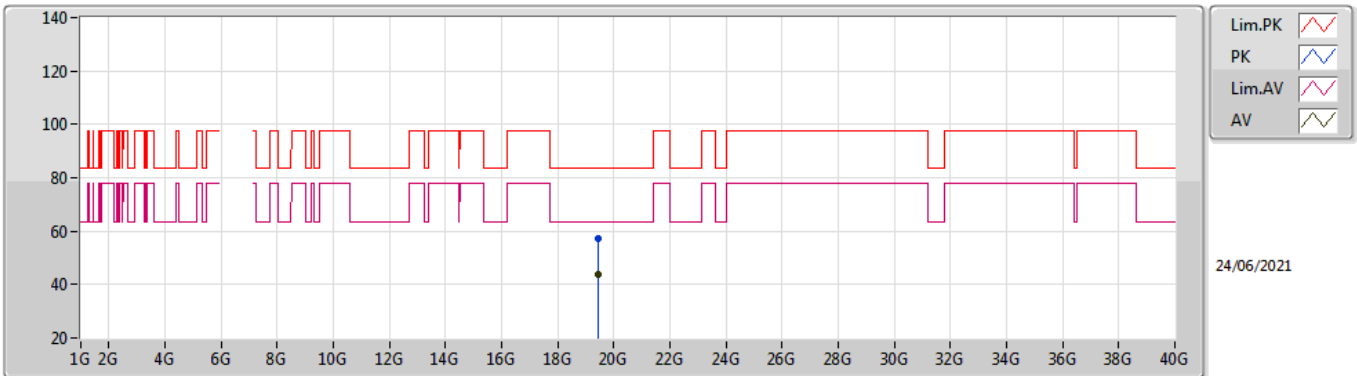


EUT_Z_1TX
Setting 54
04-F-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	12.94828G	58.00	88.20	-30.20	42.49	3	Horizontal	138	2.85	-	39.50	10.07	34.06	
RMS	12.95916G	44.89	68.20	-23.31	29.35	3	Horizontal	138	2.85	-	39.52	10.08	34.06	

802.11ax HEW20_Nss1,(MCS0)_1TX

6475MHz_TX

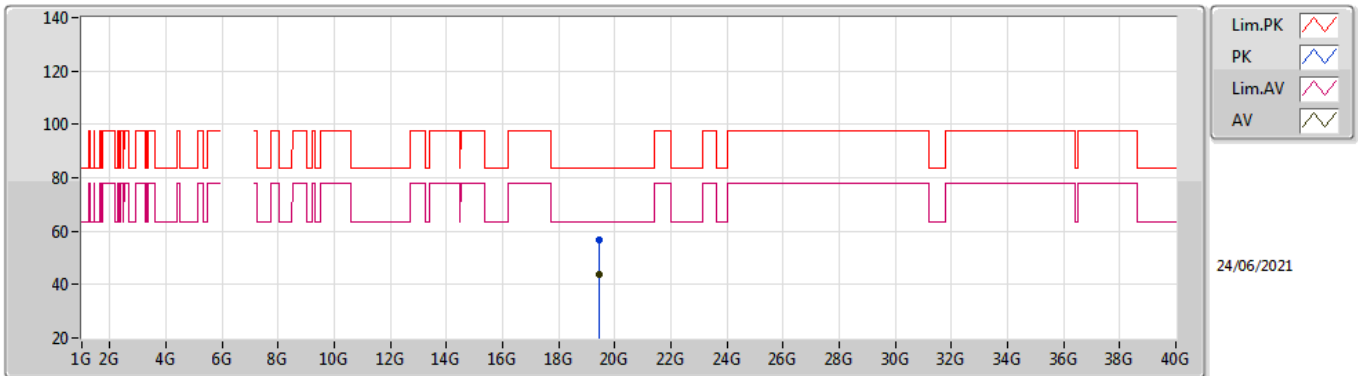


EUT_Z_1TX
Setting 54
04-F-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	19.4208G	57.00	83.54	-26.54	54.88	1	Vertical	67	2.64	-	37.90	14.34	50.12	
AV	19.43376G	43.90	63.54	-19.64	41.79	1	Vertical	67	2.64	-	37.88	14.34	50.11	

802.11ax HEW20_Nss1,(MCS0)_1TX

6475MHz_TX

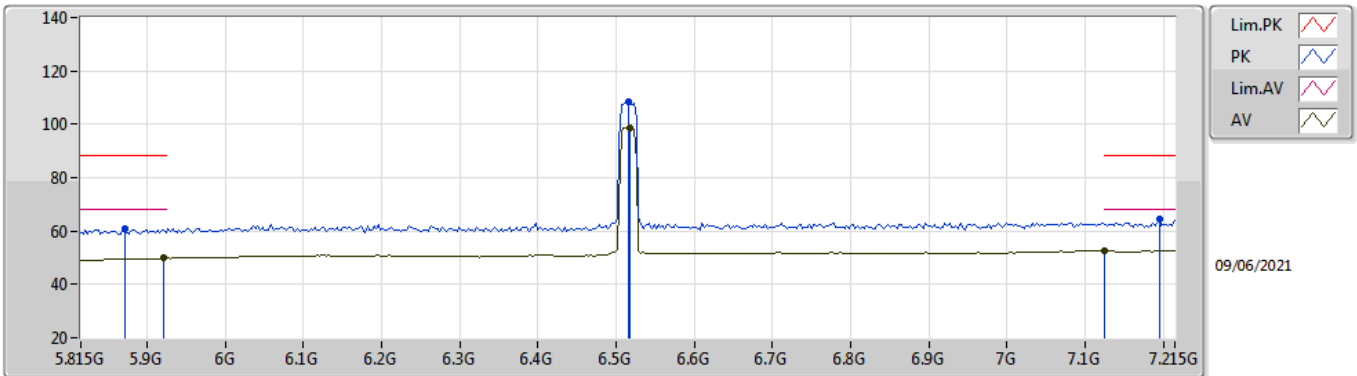


EUT_Z_1TX
Setting 54
04-F-S-5

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA	
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)	
PK	19.42336G	56.83	83.54	-26.71	54.72	1	Horizontal	161	1.41	-	37.89	14.34	50.12	
AV	19.43428G	43.79	63.54	-19.75	41.68	1	Horizontal	161	1.41	-	37.88	14.34	50.11	

802.11ax HEW20_Nss1,(MCS0)_1TX

6515MHz_TX

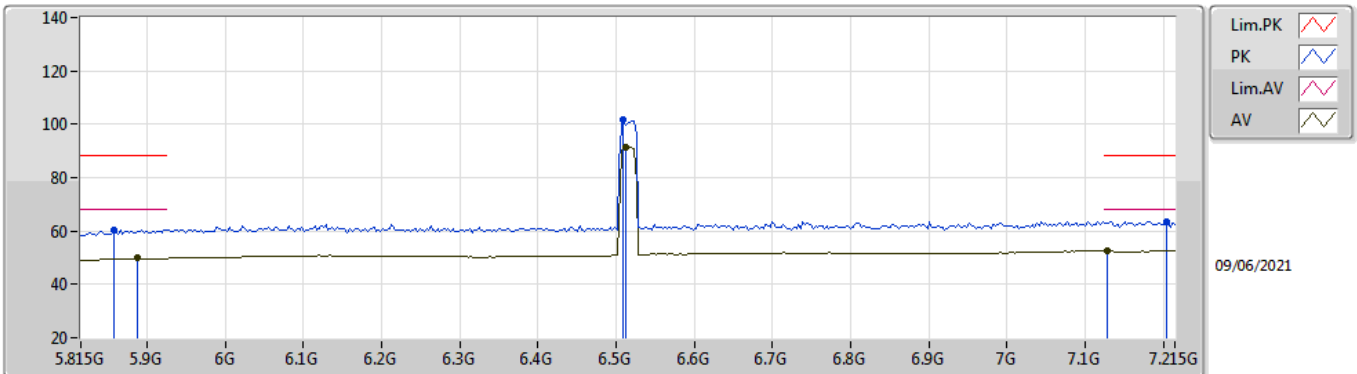


EUT_Z_1TX
Setting 55
04-A-R-5-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	5.871G	60.74	88.20	-27.46	52.83	3	Vertical	136	2.74	-	34.63	6.07	32.79
RMS	5.9214G	49.76	68.20	-18.44	41.55	3	Vertical	136	2.74	-	34.89	6.12	32.80
PK	6.515G	108.20	Inf	-Inf	99.09	3	Vertical	136	2.74	-	35.72	6.40	33.01
RMS	6.5178G	98.73	Inf	-Inf	89.60	3	Vertical	136	2.74	-	35.74	6.40	33.01
PK	7.1954G	64.57	88.20	-23.63	53.84	3	Vertical	136	2.74	-	37.18	6.80	33.25
RMS	7.1254G	52.64	68.20	-15.56	42.18	3	Vertical	136	2.74	-	36.90	6.76	33.20

802.11ax HEW20_Nss1,(MCS0)_1TX

6515MHz_TX

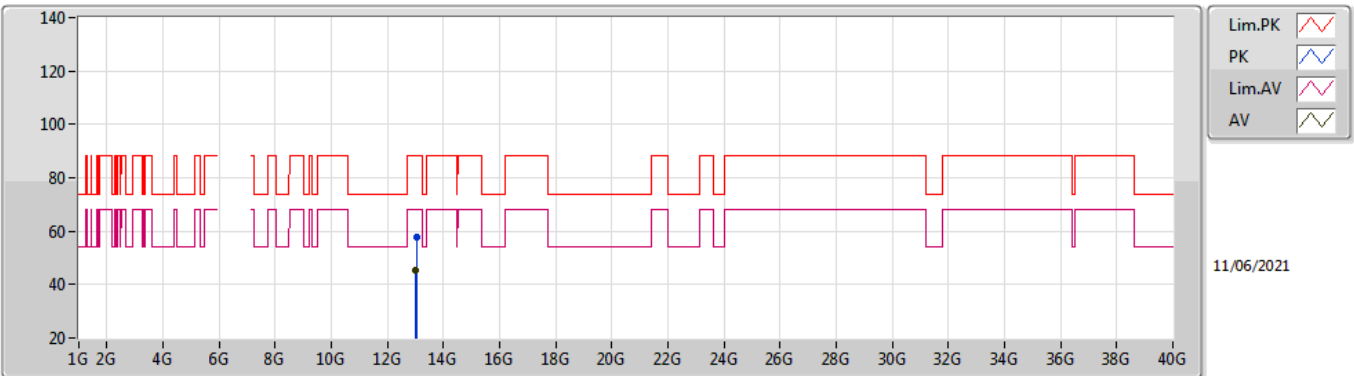


EUT_Z_1TX
Setting 55
04-A-R-5-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	5.857G	60.58	88.20	-27.62	52.76	3	Horizontal	162	2.53	-	34.54	6.06	32.78
RMS	5.8878G	49.78	68.20	-18.42	41.75	3	Horizontal	162	2.53	-	34.73	6.09	32.79
PK	6.5094G	101.66	Inf	-Inf	92.59	3	Horizontal	162	2.53	-	35.68	6.40	33.01
RMS	6.5122G	91.41	Inf	-Inf	82.32	3	Horizontal	162	2.53	-	35.70	6.40	33.01
PK	7.2038G	63.62	88.20	-24.58	52.87	3	Horizontal	162	2.53	-	37.20	6.80	33.25
RMS	7.1282G	52.66	68.20	-15.54	42.19	3	Horizontal	162	2.53	-	36.91	6.76	33.20

802.11ax HEW20_Nss1,(MCS0)_1TX

6515MHz_TX

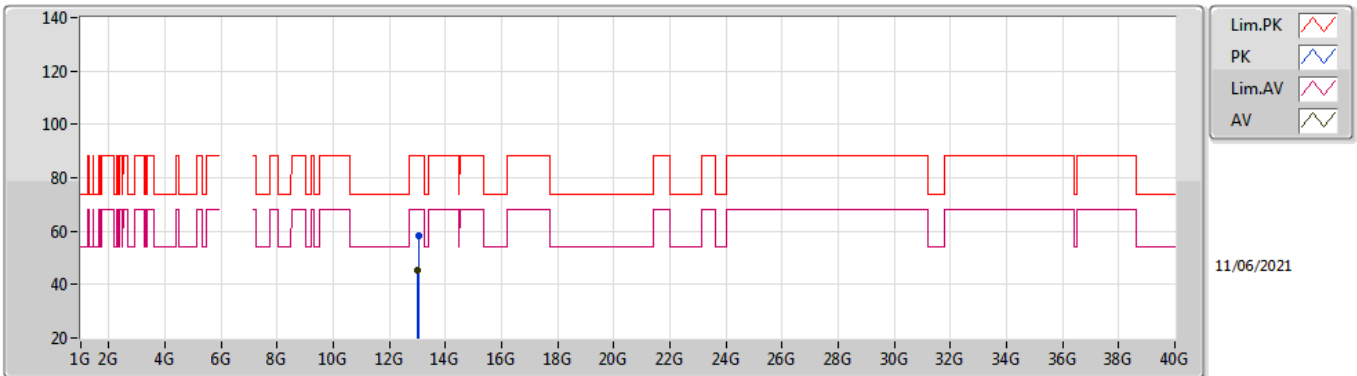


EUT_Z_1TX
Setting 55
04-F-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	13.03568G	57.93	88.20	-30.27	42.26	3	Vertical	158	2.37	-	39.60	10.12	34.05
RMS	13.0238G	45.17	68.20	-23.03	29.51	3	Vertical	158	2.37	-	39.60	10.11	34.05

802.11ax HEW20_Nss1,(MCS0)_1TX

6515MHz_TX

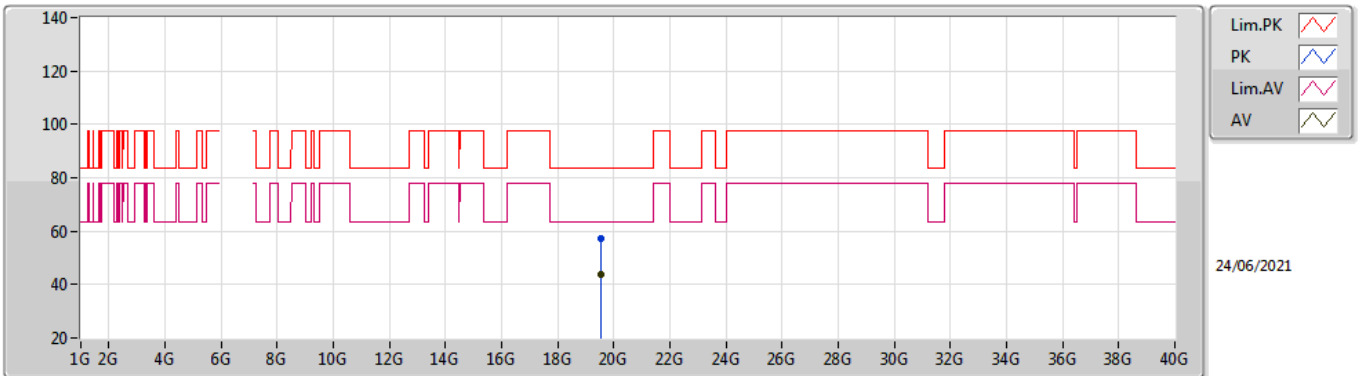


EUT_Z_1TX
Setting 55
04-F-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	13.0342G	58.25	88.20	-29.95	42.58	3	Horizontal	305	2.79	-	39.60	10.12	34.05
RMS	13.02352G	45.12	68.20	-23.08	29.46	3	Horizontal	305	2.79	-	39.60	10.11	34.05

802.11ax HEW20_Nss1,(MCS0)_1TX

6515MHz_TX

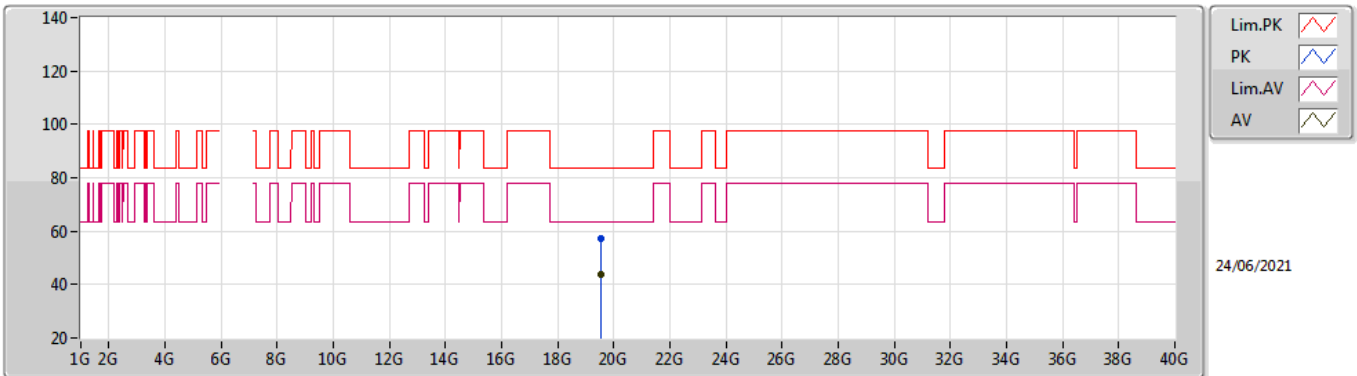


EUT_Z_1TX
Setting 55
04-F-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	19.55008G	57.12	83.54	-26.42	55.08	1	Vertical	192	2.65	-	37.76	14.36	50.08
AV	19.55332G	43.95	63.54	-19.59	41.91	1	Vertical	192	2.65	-	37.76	14.36	50.08

802.11ax HEW20_Nss1,(MCS0)_1TX

6515MHz_TX

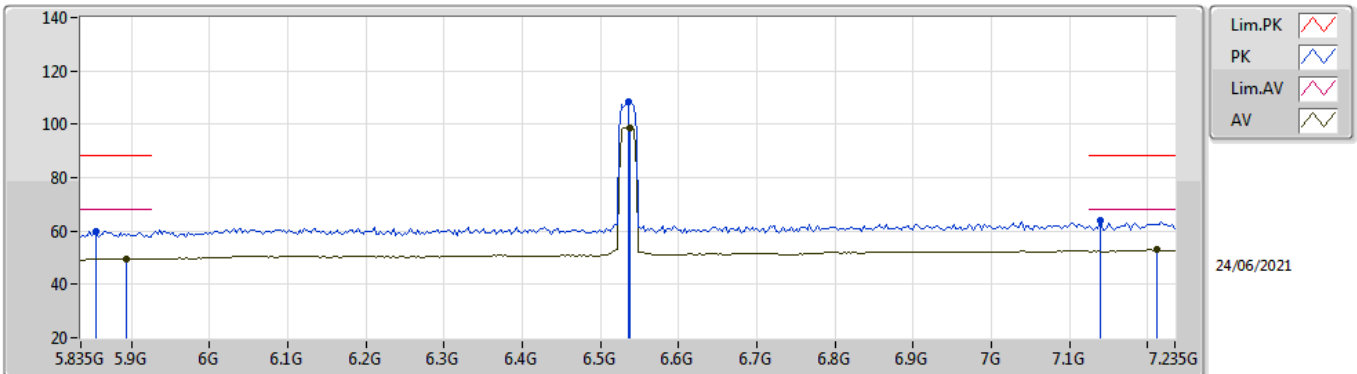


EUT_Z_1TX
Setting 55
04-F-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	19.53964G	57.04	83.54	-26.50	55.00	1	Horizontal	135	2.94	-	37.77	14.35	50.08
AV	19.54792G	44.04	63.54	-19.50	42.01	1	Horizontal	135	2.94	-	37.76	14.35	50.08

802.11ax HEW20_Nss1,(MCS0)_1TX

6535MHz_TX

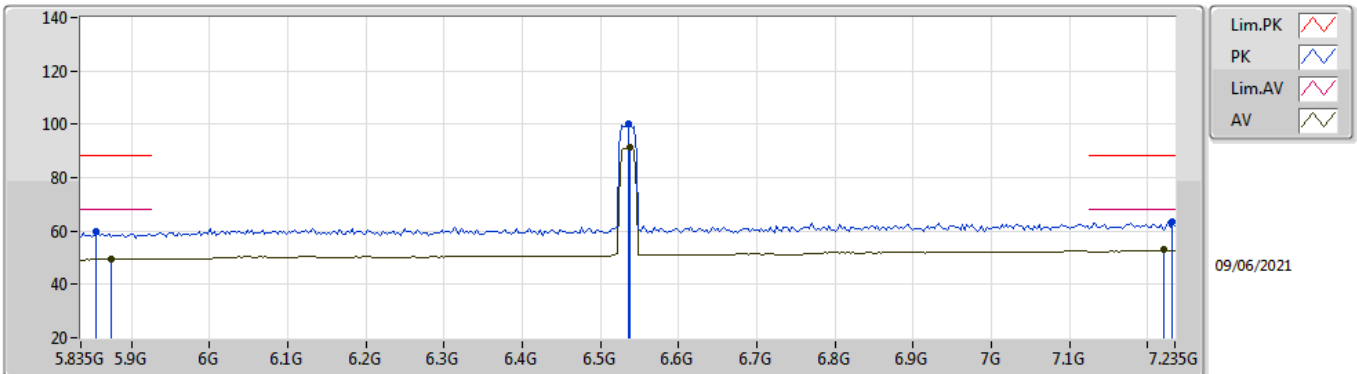


EUT_Z_1TX
Setting 56
04-F-K-4-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	5.8546G	59.97	88.20	-28.23	52.17	3	Vertical	178	2.39	-	34.53	6.05	32.78
RMS	5.8938G	49.51	68.20	-18.69	41.46	3	Vertical	178	2.39	-	34.76	6.09	32.80
PK	6.535G	108.55	Inf	-Inf	99.29	3	Vertical	178	2.39	-	35.88	6.40	33.02
RMS	6.5378G	98.85	Inf	-Inf	89.57	3	Vertical	178	2.39	-	35.90	6.40	33.02
PK	7.1398G	63.73	88.20	-24.47	53.21	3	Vertical	178	2.39	-	36.96	6.77	33.21
RMS	7.2126G	52.91	68.20	-15.29	42.16	3	Vertical	178	2.39	-	37.20	6.81	33.26

802.11ax HEW20_Nss1,(MCS0)_1TX

6535MHz_TX

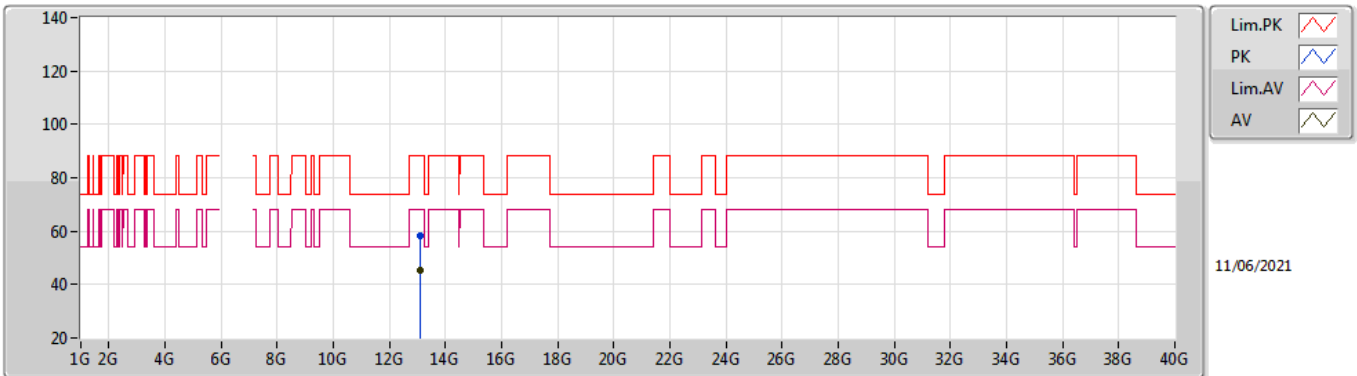


EUT_Z_1TX
Setting 56
04-F-K-4-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	5.8546G	59.64	88.20	-28.56	51.84	3	Horizontal	162	2.41	-	34.53	6.05	32.78
RMS	5.8742G	49.43	68.20	-18.77	41.50	3	Horizontal	162	2.41	-	34.65	6.07	32.79
PK	6.535G	99.98	Inf	-Inf	90.72	3	Horizontal	162	2.41	-	35.88	6.40	33.02
RMS	6.5378G	91.48	Inf	-Inf	82.20	3	Horizontal	162	2.41	-	35.90	6.40	33.02
PK	7.2322G	63.52	88.20	-24.68	52.78	3	Horizontal	162	2.41	-	37.20	6.82	33.28
RMS	7.221G	52.87	68.20	-15.33	42.13	3	Horizontal	162	2.41	-	37.20	6.81	33.27

802.11ax HEW20_Nss1,(MCS0)_1TX

6535MHz_TX

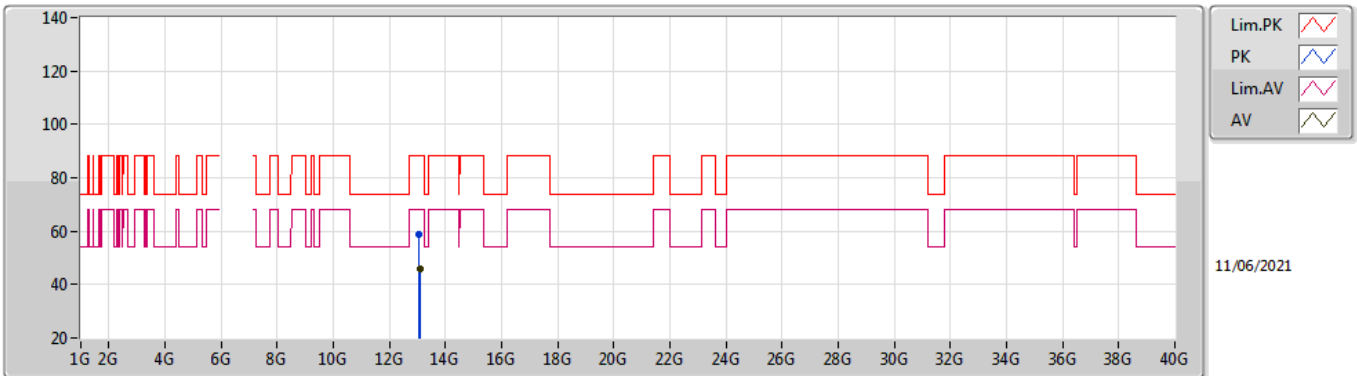


EUT_Z_1TX
Setting 56
04-F-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	13.07612G	58.34	88.20	-29.86	42.65	3	Vertical	8	2.52	-	39.60	10.14	34.05	
RMS	13.07804G	45.39	68.20	-22.81	29.70	3	Vertical	8	2.52	-	39.60	10.14	34.05	

802.11ax HEW20_Nss1,(MCS0)_1TX

6535MHz_TX

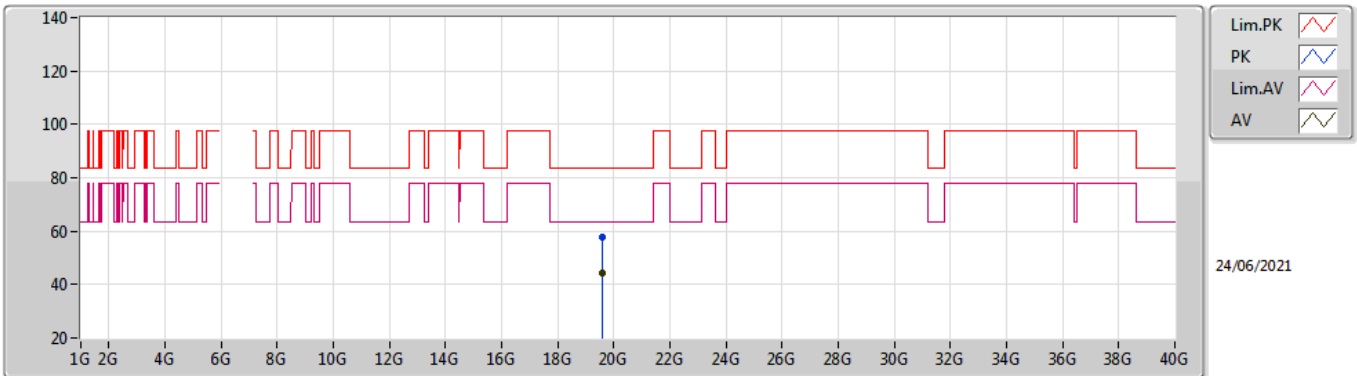


EUT_Z_1TX
Setting 56
04-F-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	13.07268G	58.56	88.20	-29.64	42.87	3	Horizontal	226	1.10	-	39.60	10.14	34.05
RMS	13.07528G	45.78	68.20	-22.42	30.09	3	Horizontal	226	1.10	-	39.60	10.14	34.05

802.11ax HEW20_Nss1,(MCS0)_1TX

6535MHz_TX

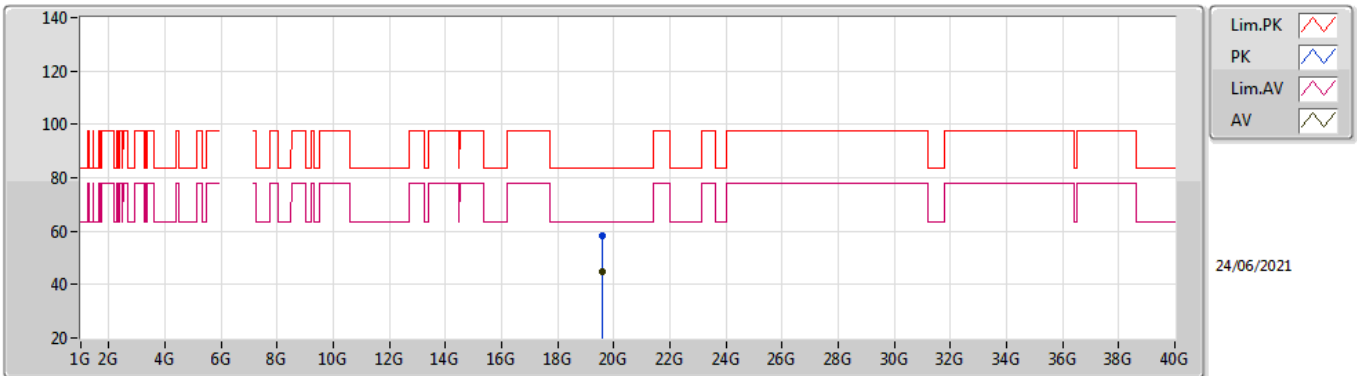


EUT_Z_1TX
Setting 56
04-F-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	19.59756G	57.65	83.54	-25.89	55.63	1	Vertical	313	1.56	-	37.72	14.36	50.06
AV	19.61096G	44.47	63.54	-19.07	42.46	1	Vertical	313	1.56	-	37.71	14.36	50.06

802.11ax HEW20_Nss1,(MCS0)_1TX

6535MHz_TX

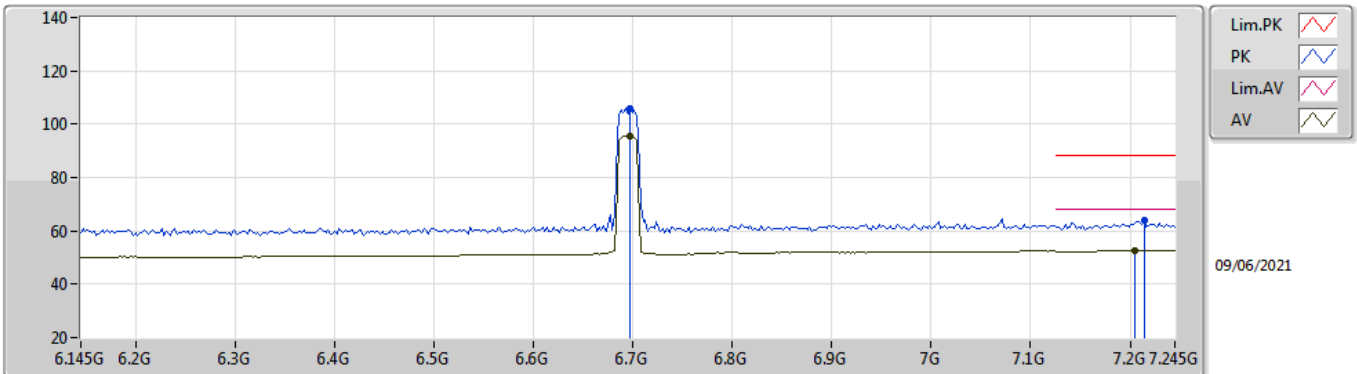


EUT_Z_1TX
Setting 56
04-F-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	19.60792G	58.44	83.54	-25.10	56.43	1	Horizontal	37	1.22	-	37.71	14.36	50.06
AV	19.60444G	44.60	63.54	-18.94	42.58	1	Horizontal	37	1.22	-	37.72	14.36	50.06

802.11ax HEW20_Nss1,(MCS0)_1TX

6695MHz_TX

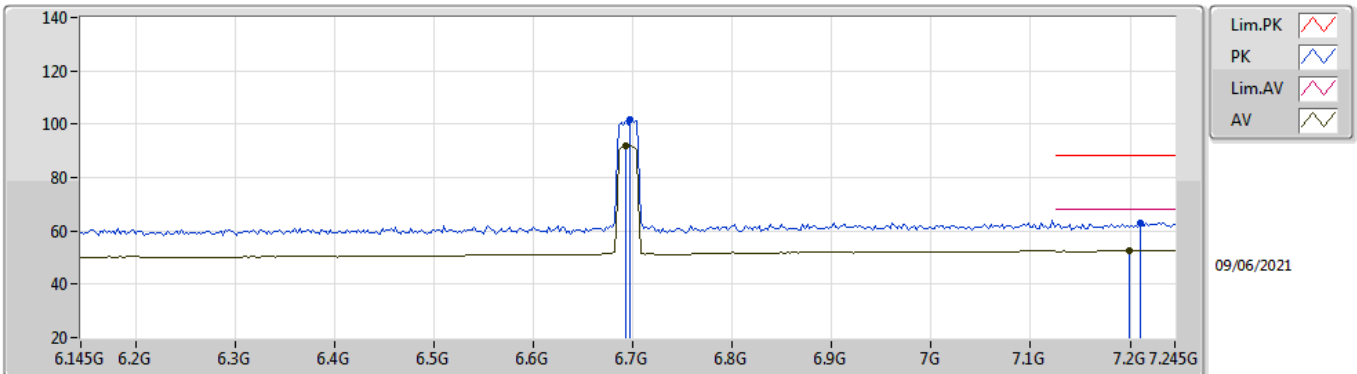


EUT_Z_1TX
Setting 58
04-F-K-4-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	6.6972G	105.86	Inf	-Inf	96.37	3	Vertical	160	2.40	-	36.09	6.45	33.05
RMS	6.6972G	95.50	Inf	-Inf	86.01	3	Vertical	160	2.40	-	36.09	6.45	33.05
PK	7.2142G	63.82	88.20	-24.38	53.07	3	Vertical	160	2.40	-	37.20	6.81	33.26
RMS	7.2054G	52.82	68.20	-15.38	42.08	3	Vertical	160	2.40	-	37.20	6.80	33.26

802.11ax HEW20_Nss1,(MCS0)_1TX

6695MHz_TX

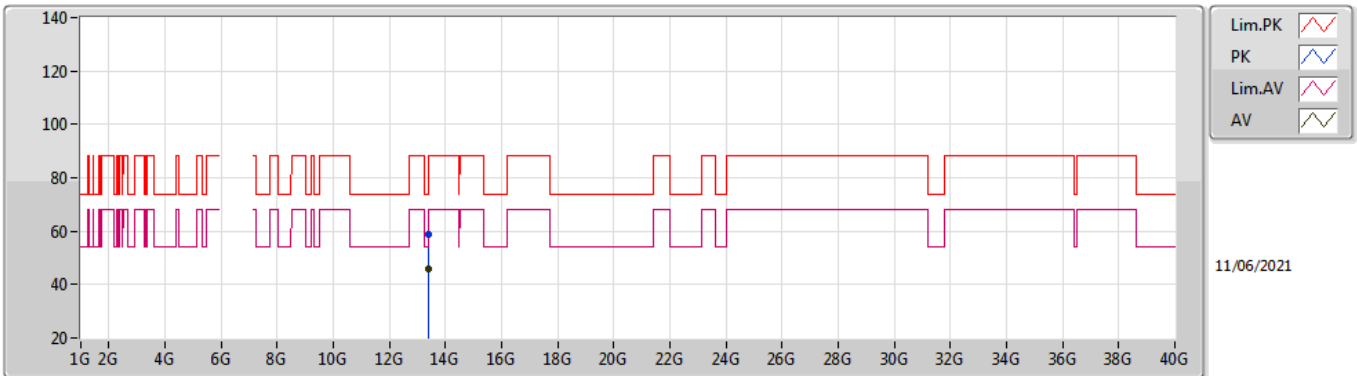


EUT Z_1TX
Setting 58
04-F-K-4-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	6.6972G	101.77	Inf	-Inf	92.28	3	Horizontal	162	2.41	-	36.09	6.45	33.05	
RMS	6.6928G	91.89	Inf	-Inf	82.39	3	Horizontal	162	2.41	-	36.09	6.45	33.04	
PK	7.2098G	63.17	88.20	-25.03	52.43	3	Horizontal	162	2.41	-	37.20	6.80	33.26	
RMS	7.1988G	52.84	68.20	-15.36	42.09	3	Horizontal	162	2.41	-	37.20	6.80	33.25	

802.11ax HEW20_Nss1,(MCS0)_1TX

6695MHz_TX

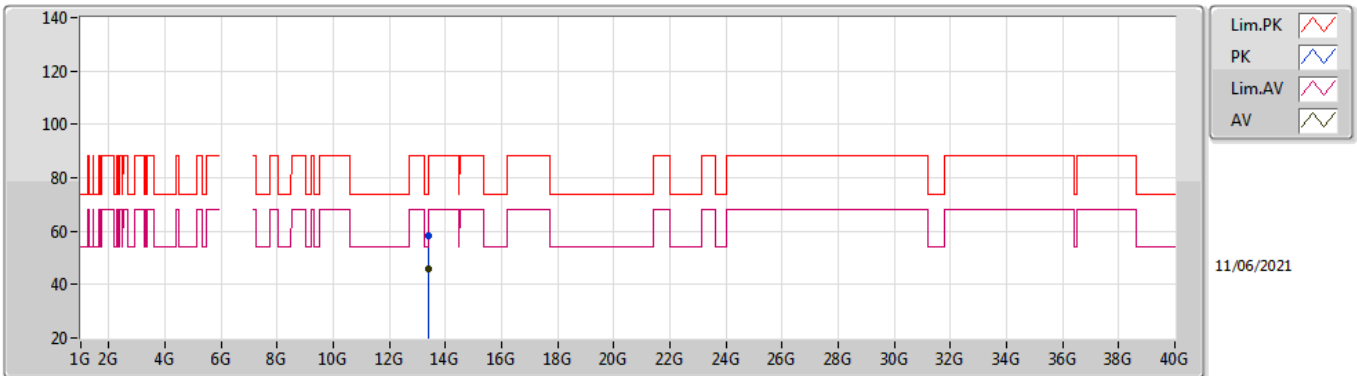


EUT_Z_1TX
Setting 58
04-F-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	13.395G	58.77	74.00	-15.23	42.50	3	Vertical	243	1.77	-	40.00	10.30	34.03
AV	13.39736G	45.88	54.00	-8.12	29.61	3	Vertical	243	1.77	-	40.00	10.30	34.03

802.11ax HEW20_Nss1,(MCS0)_1TX

6695MHz_TX

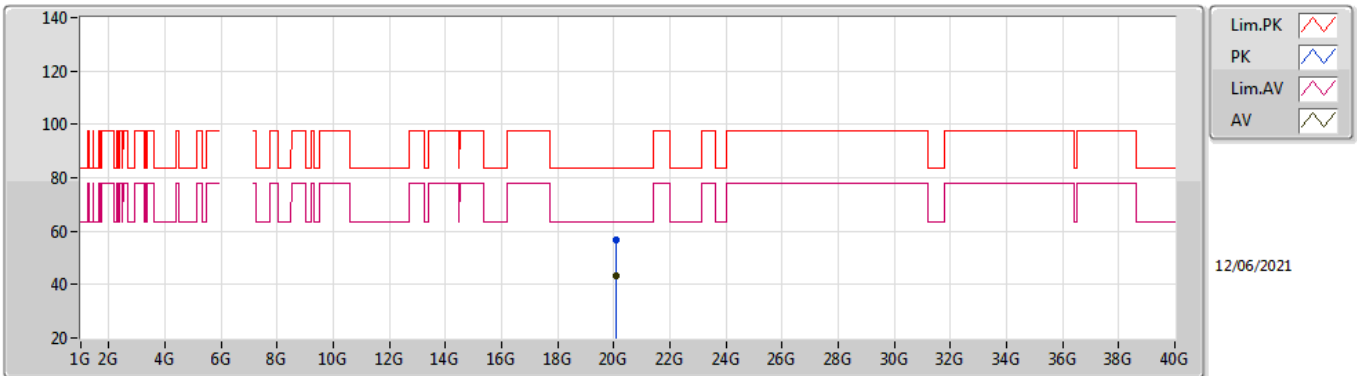


EUT_Z_1TX
Setting 58
04-F-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	13.38572G	58.48	74.00	-15.52	42.22	3	Horizontal	251	1.41	-	40.00	10.29	34.03	
AV	13.38232G	46.09	54.00	-7.91	29.83	3	Horizontal	251	1.41	-	40.00	10.29	34.03	

802.11ax HEW20_Nss1,(MCS0)_1TX

6695MHz_TX

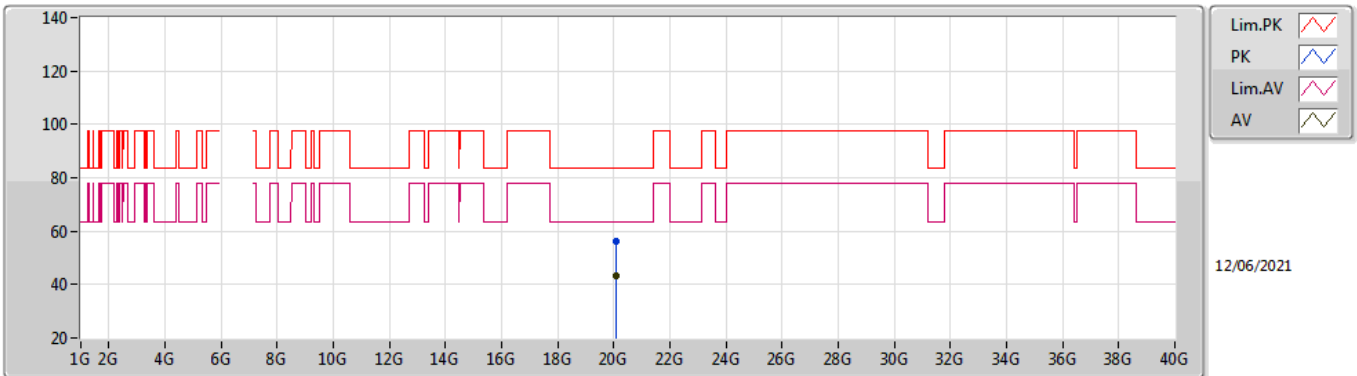


EUT_Z_1TX
Setting 58
04-F-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	20.09328G	56.63	83.54	-26.91	54.65	1	Vertical	63	2.61	-	37.46	14.44	49.92
AV	20.07728G	43.21	63.54	-20.33	41.25	1	Vertical	63	2.61	-	37.45	14.43	49.92

802.11ax HEW20_Nss1,(MCS0)_1TX

6695MHz_TX

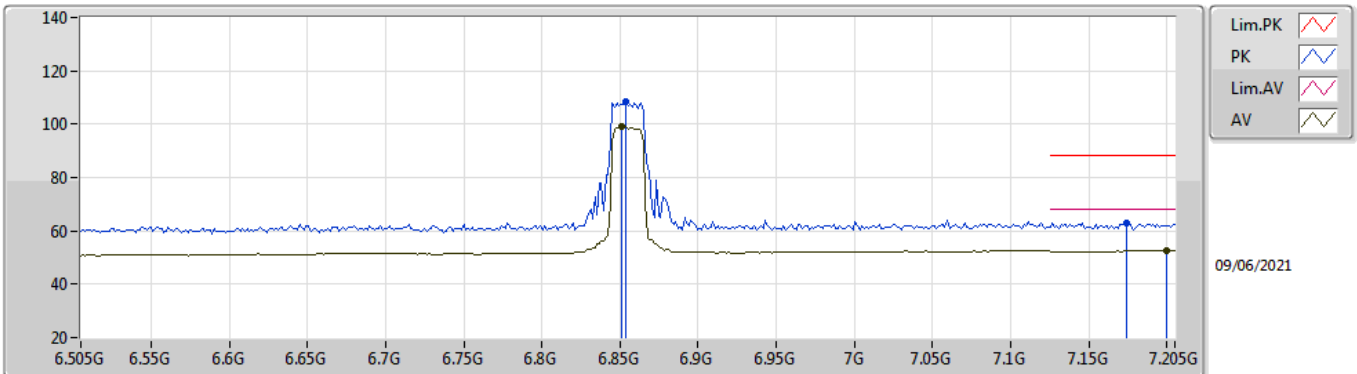


EUT_Z_1TX
Setting 58
04-F-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	20.09156G	56.05	83.54	-27.49	54.08	1	Horizontal	134	2.84	-	37.45	14.44	49.92
AV	20.09044G	43.29	63.54	-20.25	41.32	1	Horizontal	134	2.84	-	37.45	14.44	49.92

802.11ax HEW20_Nss1,(MCS0)_1TX

6855MHz_TX

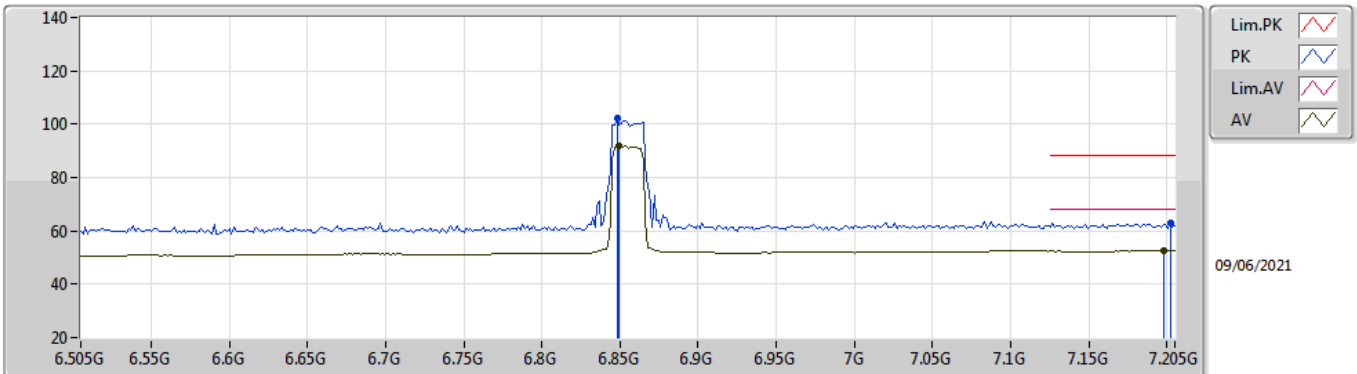


EUT Z_1TX
Setting 66
04-F-K-4-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	6.8536G	108.29	Inf	-Inf	98.31	3	Vertical	178	2.30	-	36.50	6.55	33.07
RMS	6.8508G	98.97	Inf	-Inf	88.99	3	Vertical	178	2.30	-	36.50	6.55	33.07
PK	7.1742G	62.75	88.20	-25.45	52.09	3	Vertical	178	2.30	-	37.10	6.79	33.23
RMS	7.1994G	52.76	68.20	-15.44	42.01	3	Vertical	178	2.30	-	37.20	6.80	33.25

802.11ax HEW20_Nss1,(MCS0)_1TX

6855MHz_TX

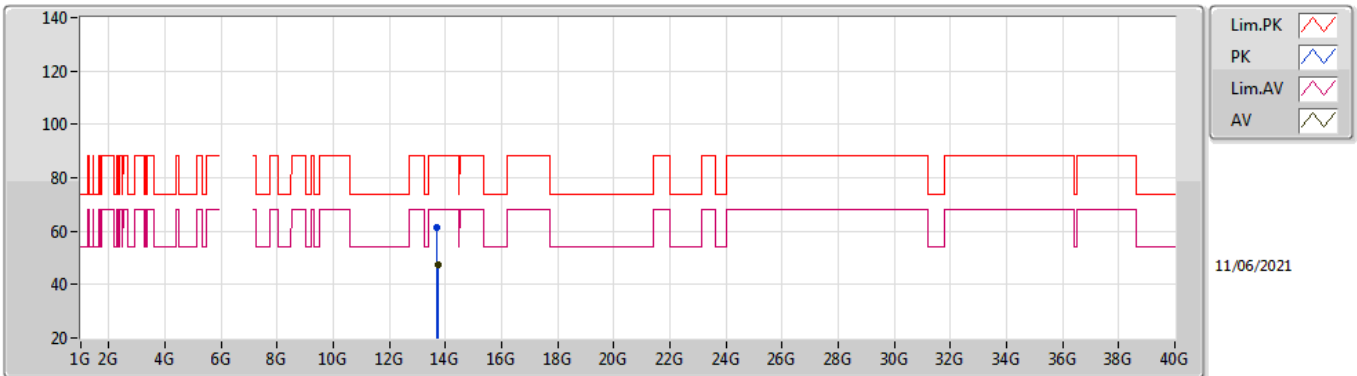


EUT Z_1TX
Setting 66
04-F-K-4-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	6.848G	102.28	Inf	-Inf	92.30	3	Horizontal	161	2.35	-	36.50	6.55	33.07	
RMS	6.8494G	91.83	Inf	-Inf	81.85	3	Horizontal	161	2.35	-	36.50	6.55	33.07	
PK	7.2022G	62.98	88.20	-25.22	52.23	3	Horizontal	161	2.35	-	37.20	6.80	33.25	
RMS	7.198G	52.68	68.20	-15.52	41.94	3	Horizontal	161	2.35	-	37.19	6.80	33.25	

802.11ax HEW20_Nss1,(MCS0)_1TX

6855MHz_TX

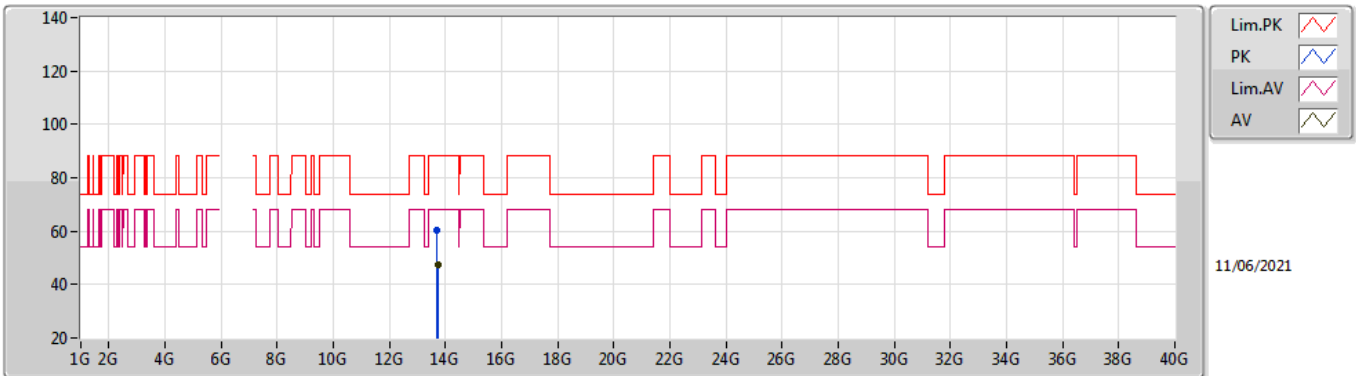


EUT_Z_1TX
Setting 66
04-F-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	13.70004G	61.39	88.20	-26.81	44.82	3	Vertical	228	1.68	-	40.30	10.45	34.18	
RMS	13.7194G	47.45	68.20	-20.75	30.85	3	Vertical	228	1.68	-	40.34	10.46	34.20	

802.11ax HEW20_Nss1,(MCS0)_1TX

6855MHz_TX

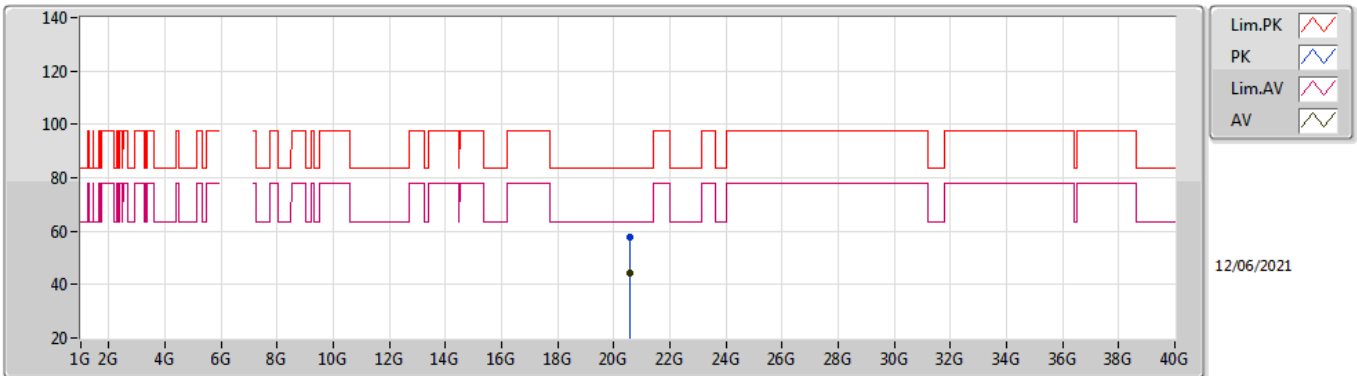


EUT_Z_1TX
Setting 66
04-F-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	13.7012G	60.22	88.20	-27.98	43.65	3	Horizontal	295	1.29	-	40.30	10.45	34.18	
RMS	13.71884G	47.33	68.20	-20.87	30.73	3	Horizontal	295	1.29	-	40.34	10.46	34.20	

802.11ax HEW20_Nss1,(MCS0)_1TX

6855MHz_TX

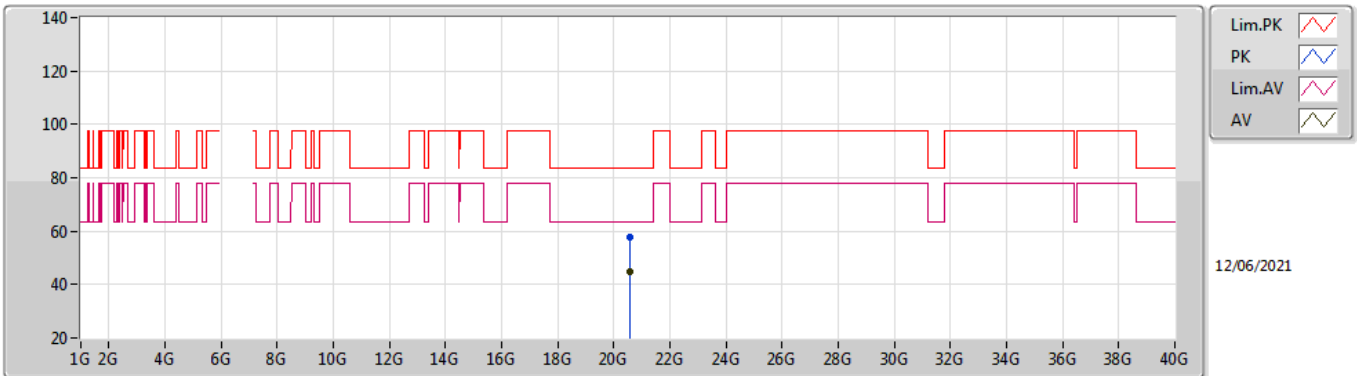


EUT_Z_1TX
Setting 66
04-F-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	20.555G	57.62	83.54	-25.92	55.20	1	Vertical	128	1.50	-	37.76	14.65	49.99
AV	20.55556G	44.42	63.54	-19.12	42.00	1	Vertical	128	1.50	-	37.76	14.65	49.99

802.11ax HEW20_Nss1,(MCS0)_1TX

6855MHz_TX

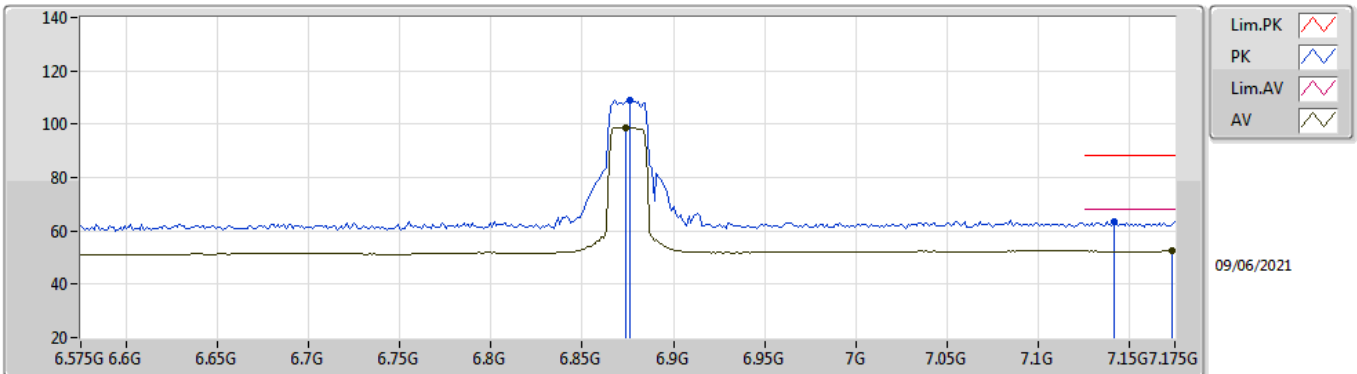


EUT_Z_1TX
Setting 66
04-F-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	20.56056G	57.67	83.54	-25.87	55.25	1	Horizontal	181	1.53	-	37.76	14.65	49.99
AV	20.555G	44.57	63.54	-18.97	42.15	1	Horizontal	181	1.53	-	37.76	14.65	49.99

802.11ax HEW20_Nss1,(MCS0)_1TX

6875MHz Straddle 6.525-6.875GHz_TX

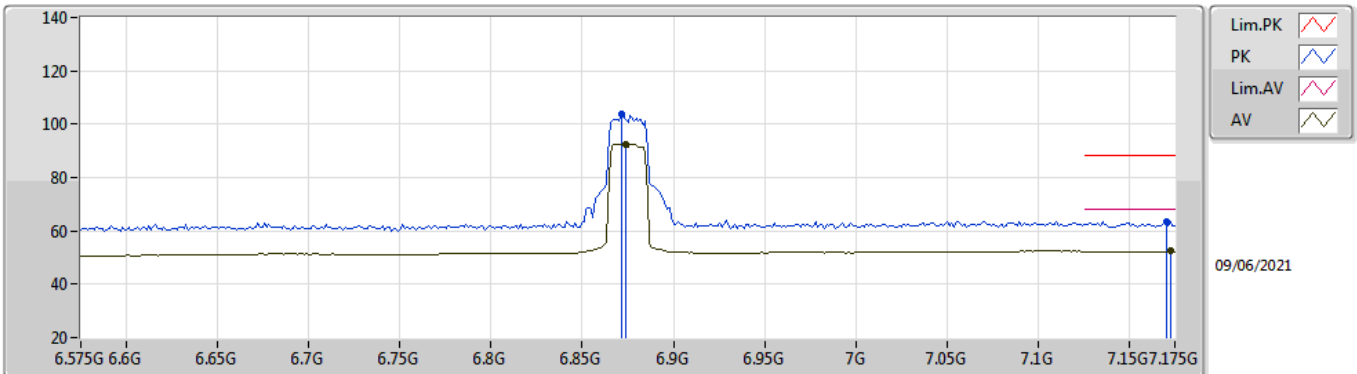


EUT_Z_1TX
Setting 67
04-F-K-4-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	6.8762G	109.12	Inf	-Inf	99.12	3	Vertical	176	2.44	-	36.50	6.58	33.08
RMS	6.8738G	98.87	Inf	-Inf	88.88	3	Vertical	176	2.44	-	36.50	6.57	33.08
PK	7.1414G	63.51	88.20	-24.69	52.98	3	Vertical	176	2.44	-	36.97	6.77	33.21
RMS	7.1738G	52.44	68.20	-15.76	41.78	3	Vertical	176	2.44	-	37.10	6.79	33.23

802.11ax HEW20_Nss1,(MCS0)_1TX

6875MHz Straddle 6.525-6.875GHz_TX

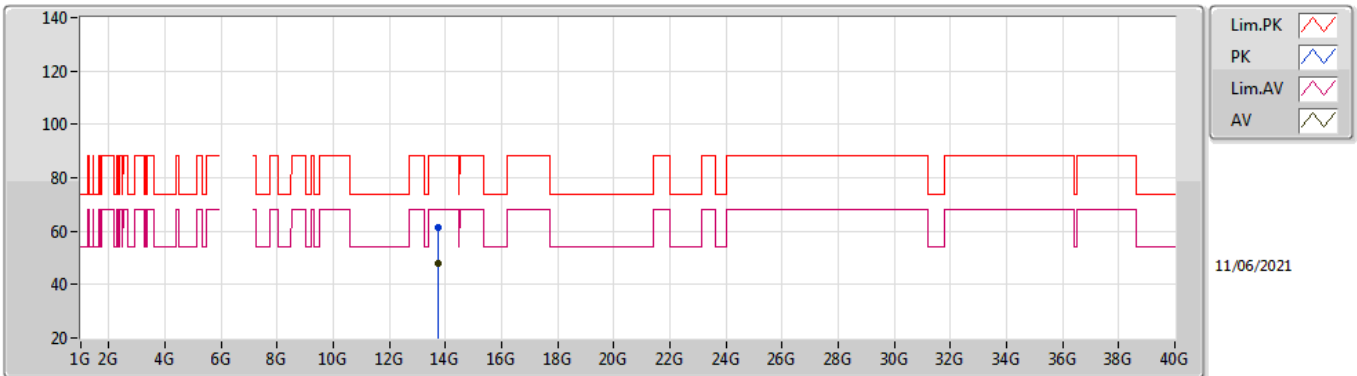


EUT_Z_1TX
Setting 67
04-F-K-4-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	6.8714G	103.81	Inf	-Inf	93.82	3	Horizontal	162	2.41	-	36.50	6.57	33.08
RMS	6.8738G	92.56	Inf	-Inf	82.57	3	Horizontal	162	2.41	-	36.50	6.57	33.08
PK	7.1702G	63.36	88.20	-24.84	52.72	3	Horizontal	162	2.41	-	37.08	6.79	33.23
RMS	7.1726G	52.36	68.20	-15.84	41.71	3	Horizontal	162	2.41	-	37.09	6.79	33.23

802.11ax HEW20_Nss1,(MCS0)_1TX

6875MHz Straddle 6.525-6.875GHz_TX

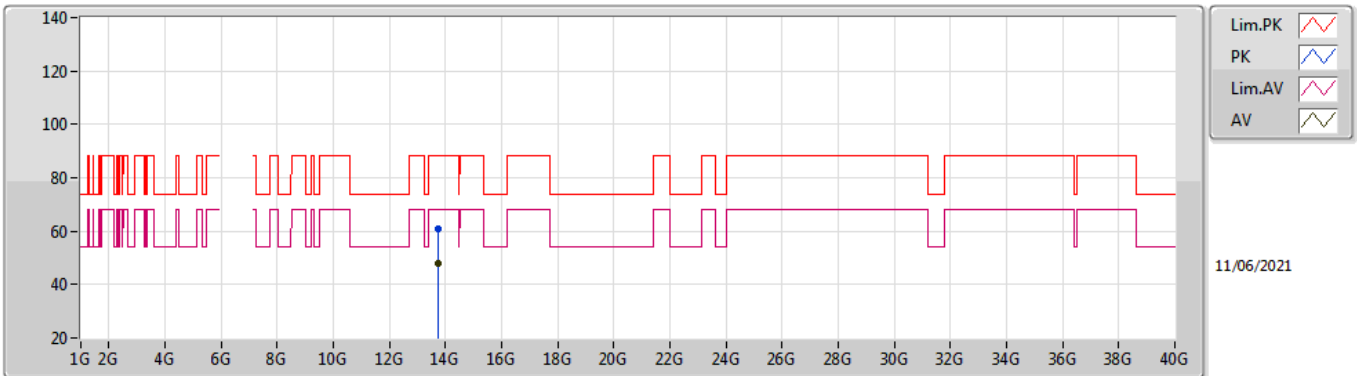


EUT_Z_1TX
Setting 67
04-F-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	13.75452G	61.53	88.20	-26.67	44.87	3	Vertical	266	2.53	-	40.41	10.48	34.23
RMS	13.74572G	47.74	68.20	-20.46	31.10	3	Vertical	266	2.53	-	40.39	10.47	34.22

802.11ax HEW20_Nss1,(MCS0)_1TX

6875MHz Straddle 6.525-6.875GHz_TX

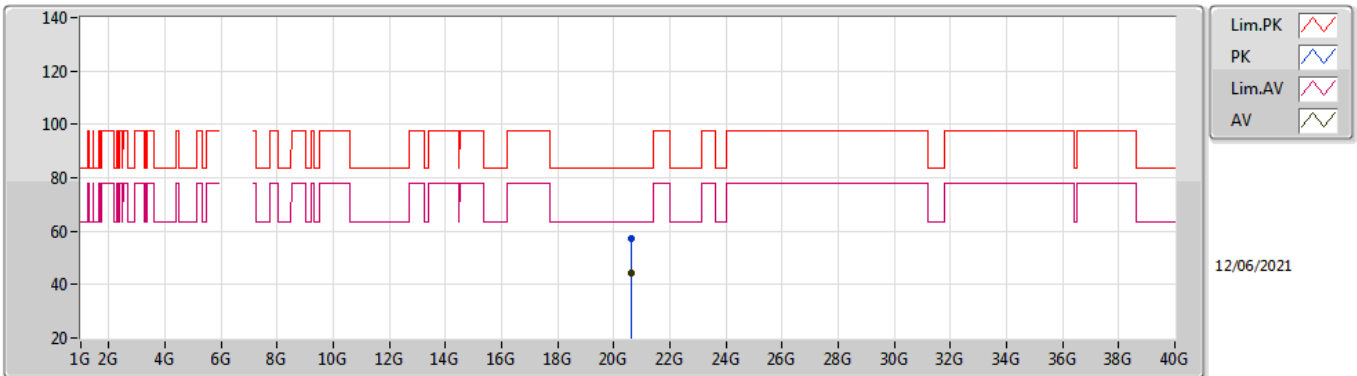


EUT_Z_1TX
Setting 67
04-F-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	13.75952G	60.83	88.20	-27.37	44.16	3	Horizontal	61	1.67	-	40.42	10.48	34.23
RMS	13.74532G	47.76	68.20	-20.44	31.12	3	Horizontal	61	1.67	-	40.39	10.47	34.22

802.11ax HEW20_Nss1,(MCS0)_1TX

6875MHz Straddle 6.525-6.875GHz_TX

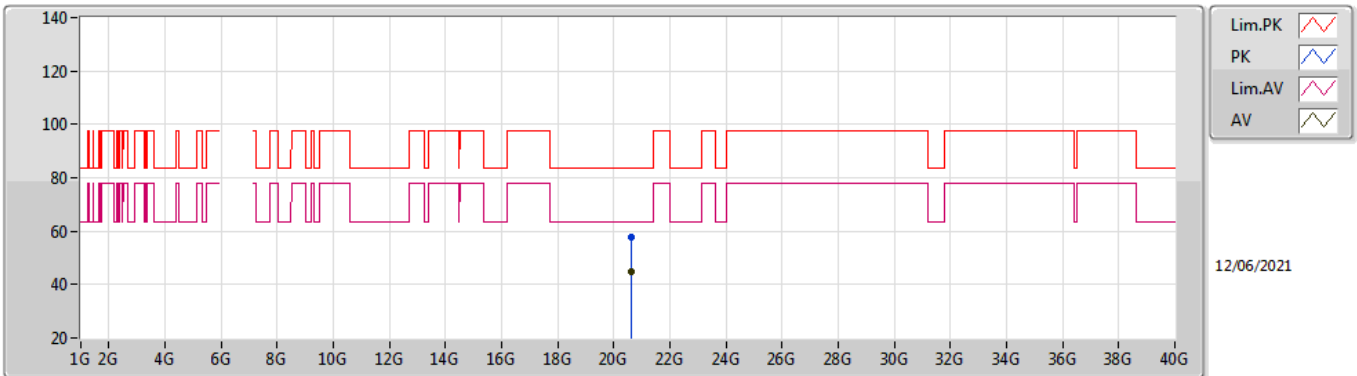


EUT_Z_1TX
Setting 67
04-F-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	20.62476G	57.44	83.54	-26.10	54.92	1	Vertical	177	1.45	-	37.82	14.68	49.98
AV	20.62484G	44.34	63.54	-19.20	41.82	1	Vertical	177	1.45	-	37.82	14.68	49.98

802.11ax HEW20_Nss1,(MCS0)_1TX

6875MHz Straddle 6.525-6.875GHz_TX

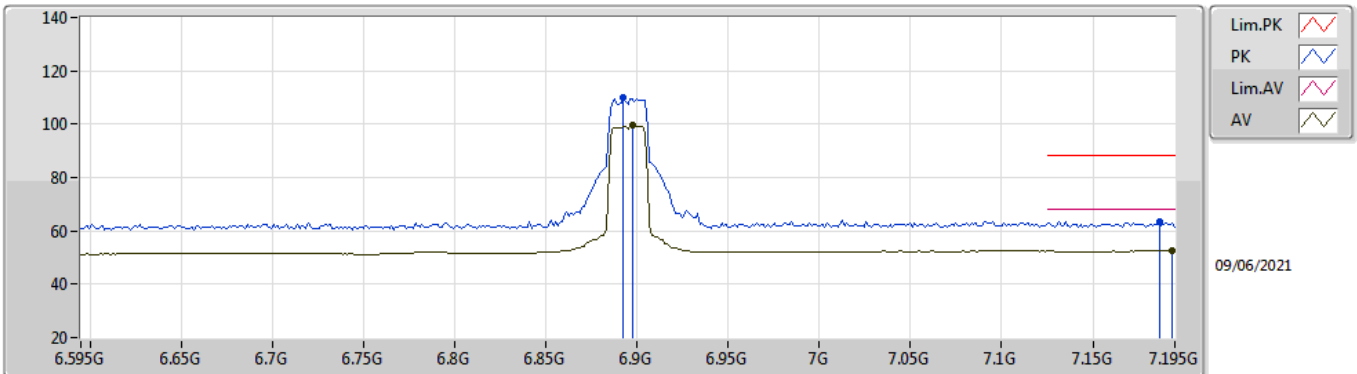


EUT_Z_1TX
Setting 67
04-F-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	20.62548G	57.53	83.54	-26.01	54.99	1	Horizontal	195	1.57	-	37.83	14.68	49.97
AV	20.625G	45.00	63.54	-18.54	42.47	1	Horizontal	195	1.57	-	37.83	14.68	49.98

802.11ax HEW20_Nss1,(MCS0)_1TX

6895MHz_TX

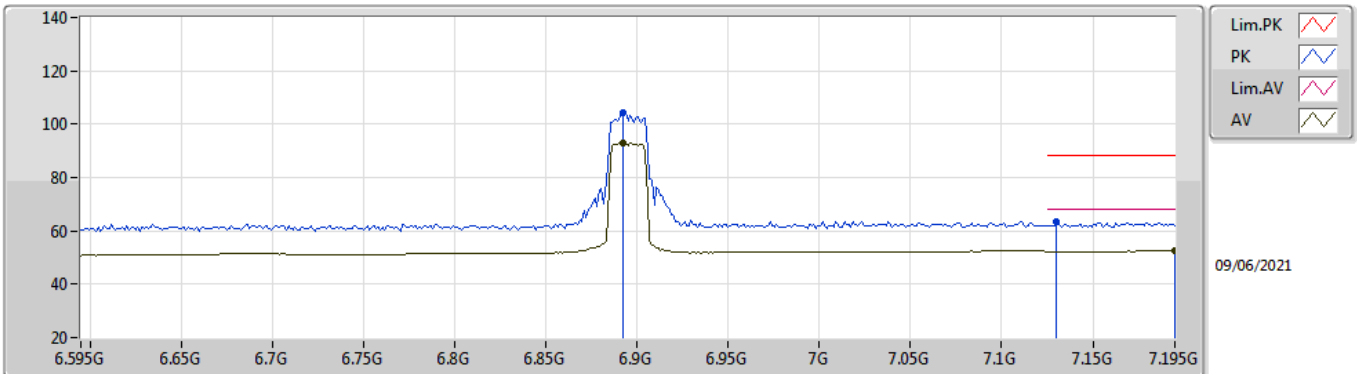


EUT_Z_1TX
Setting 69
04-F-K-4-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	6.8926G	110.22	Inf	-Inf	100.21	3	Vertical	176	2.38	-	36.50	6.59	33.08
RMS	6.8974G	99.42	Inf	-Inf	89.40	3	Vertical	176	2.38	-	36.50	6.60	33.08
PK	7.1866G	63.55	88.20	-24.65	52.85	3	Vertical	176	2.38	-	37.15	6.79	33.24
RMS	7.1938G	52.57	68.20	-15.63	41.84	3	Vertical	176	2.38	-	37.18	6.80	33.25

802.11ax HEW20_Nss1,(MCS0)_1TX

6895MHz_TX

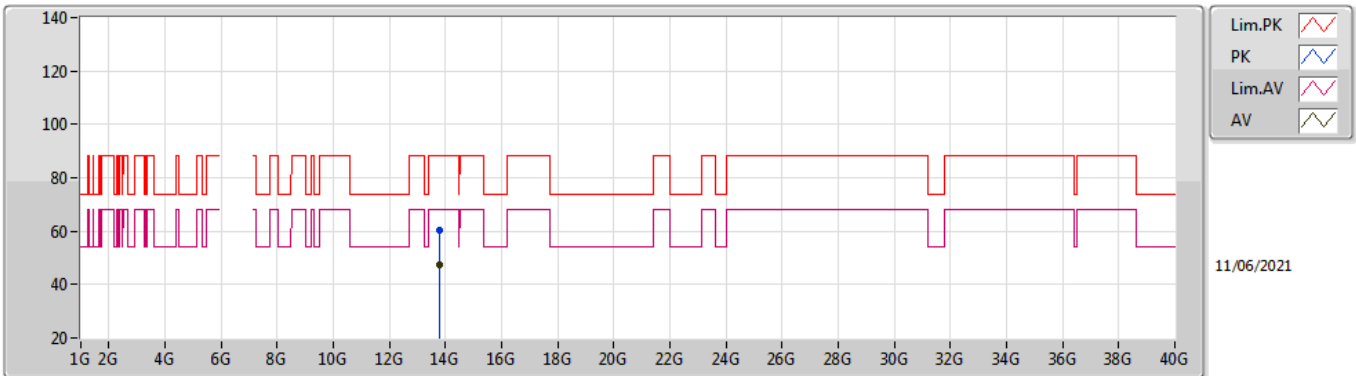


EUT_Z_1TX
Setting 69
04-F-K-4-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	6.8926G	104.33	Inf	-Inf	94.32	3	Horizontal	161	2.40	-	36.50	6.59	33.08	
RMS	6.8926G	92.89	Inf	-Inf	82.88	3	Horizontal	161	2.40	-	36.50	6.59	33.08	
PK	7.1302G	63.49	88.20	-24.71	53.00	3	Horizontal	161	2.40	-	36.92	6.77	33.20	
RMS	7.195G	52.56	68.20	-15.64	41.83	3	Horizontal	161	2.40	-	37.18	6.80	33.25	

802.11ax HEW20_Nss1,(MCS0)_1TX

6895MHz_TX

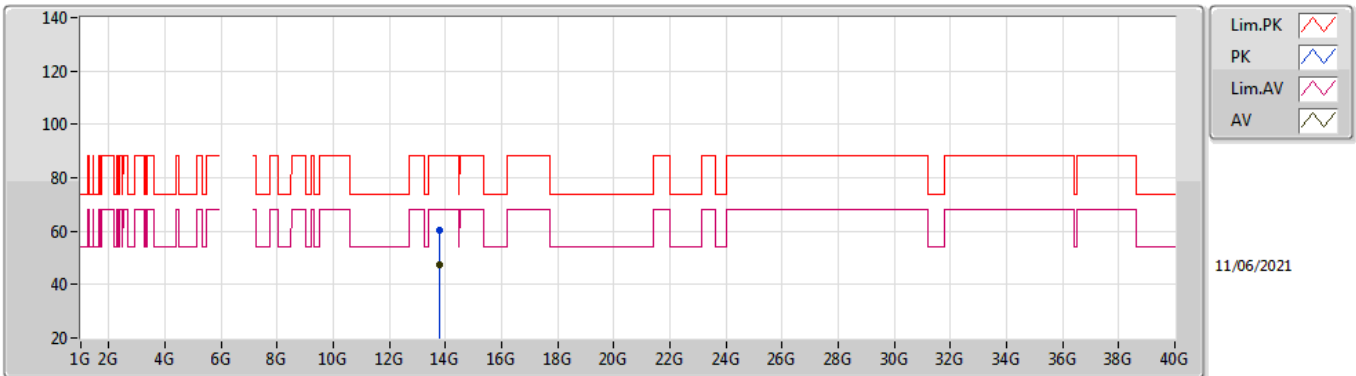


EUT_Z_1TX
Setting 69
04-F-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	13.794G	60.54	88.20	-27.66	43.81	3	Vertical	346	1.79	-	40.49	10.50	34.26
RMS	13.79388G	47.61	68.20	-20.59	30.88	3	Vertical	346	1.79	-	40.49	10.50	34.26

802.11ax HEW20_Nss1,(MCS0)_1TX

6895MHz_TX

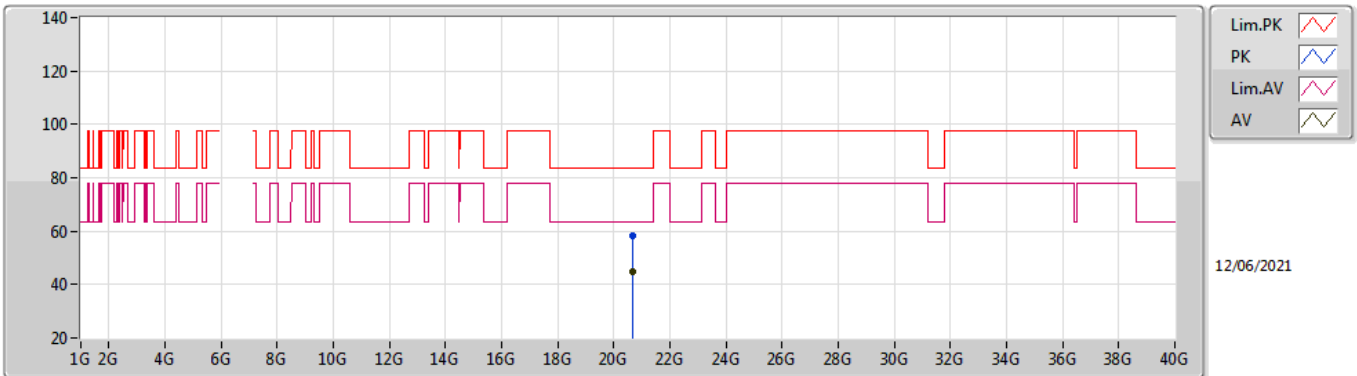


EUT_Z_1TX
Setting 69
04-F-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	13.79888G	60.60	88.20	-27.60	43.87	3	Horizontal	140	1.23	-	40.50	10.50	34.27
RMS	13.79904G	47.51	68.20	-20.69	30.78	3	Horizontal	140	1.23	-	40.50	10.50	34.27

802.11ax HEW20_Nss1,(MCS0)_1TX

6895MHz_TX

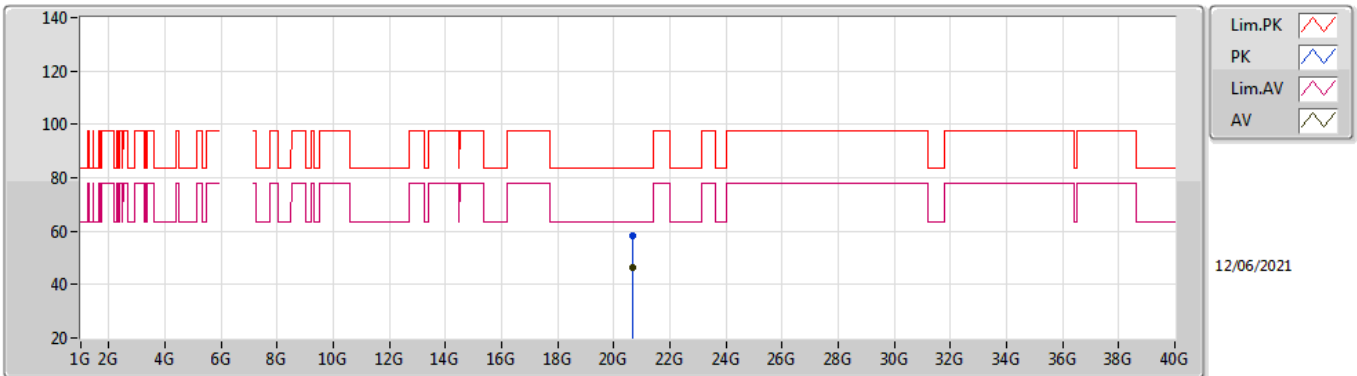


EUT_Z_1TX
Setting 69
04-F-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	20.68516G	58.03	83.54	-25.51	55.39	1	Vertical	2	1.50	-	37.89	14.71	49.96
AV	20.68672G	44.83	63.54	-18.71	42.19	1	Vertical	2	1.50	-	37.89	14.71	49.96

802.11ax HEW20_Nss1,(MCS0)_1TX

6895MHz_TX

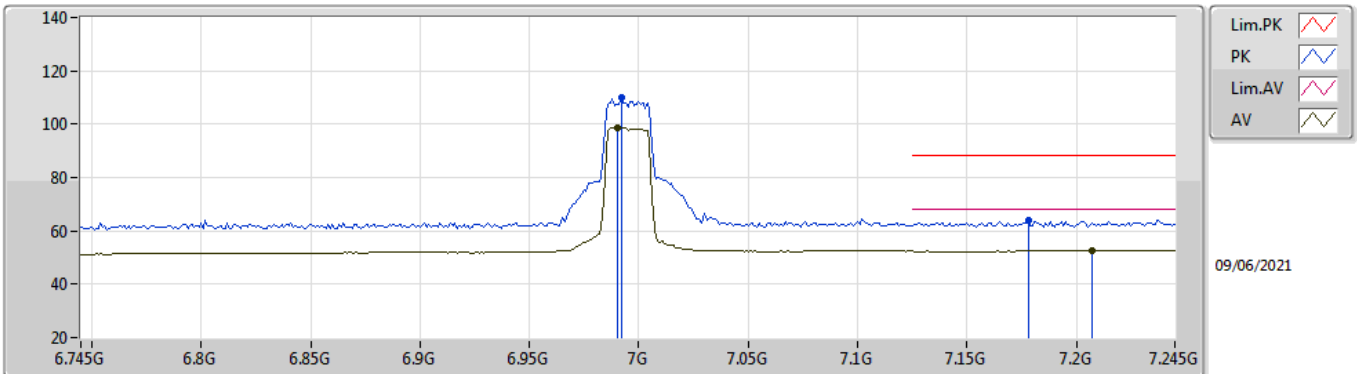


EUT_Z_1TX
Setting 69
04-F-S-5

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	20.6948G	58.07	83.54	-25.47	55.43	1	Horizontal	179	1.56	-	37.89	14.71	49.96
AV	20.68496G	46.44	63.54	-17.10	43.81	1	Horizontal	179	1.56	-	37.88	14.71	49.96

802.11ax HEW20_Nss1,(MCS0)_1TX

6995MHz_TX

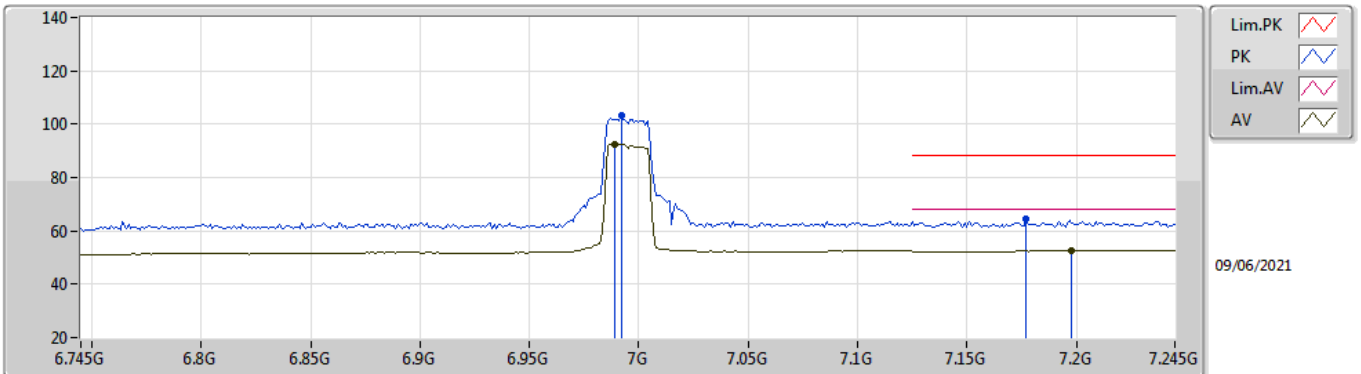


EUT_Z_1TX
Setting 57
04-F-K-4-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	6.992G	109.82	Inf	-Inf	99.63	3	Vertical	178	2.42	-	36.60	6.69	33.10	
RMS	6.99G	98.63	Inf	-Inf	88.44	3	Vertical	178	2.42	-	36.60	6.69	33.10	
PK	7.178G	63.77	88.20	-24.43	53.11	3	Vertical	178	2.42	-	37.11	6.79	33.24	
RMS	7.207G	52.72	68.20	-15.48	41.98	3	Vertical	178	2.42	-	37.20	6.80	33.26	

802.11ax HEW20_Nss1,(MCS0)_1TX

6995MHz_TX

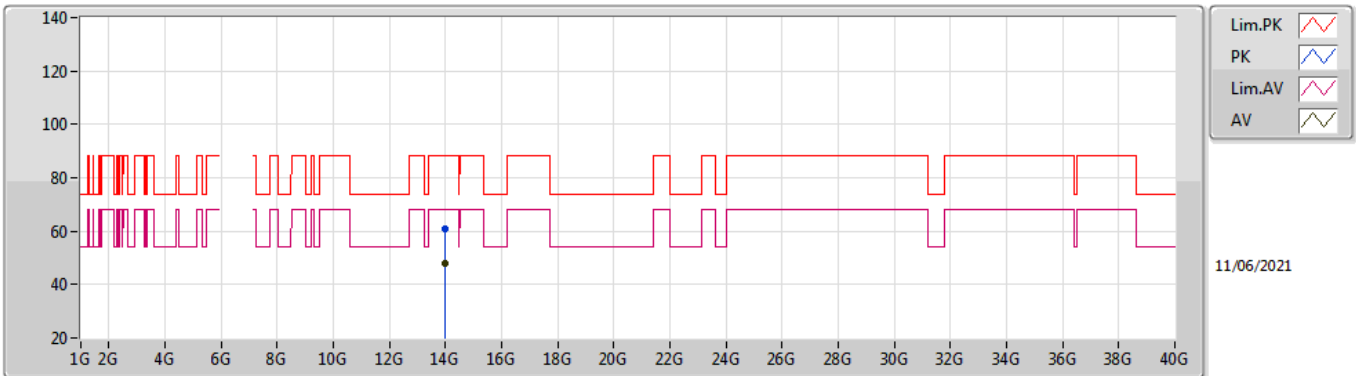


EUT Z_1TX
Setting 57
04-F-K-4-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	6.992G	103.46	Inf	-Inf	93.27	3	Horizontal	162	2.40	-	36.60	6.69	33.10
RMS	6.989G	92.44	Inf	-Inf	82.25	3	Horizontal	162	2.40	-	36.60	6.69	33.10
PK	7.177G	64.65	88.20	-23.55	53.98	3	Horizontal	162	2.40	-	37.11	6.79	33.23
RMS	7.198G	52.69	68.20	-15.51	41.95	3	Horizontal	162	2.40	-	37.19	6.80	33.25

802.11ax HEW20_Nss1,(MCS0)_1TX

6995MHz_TX

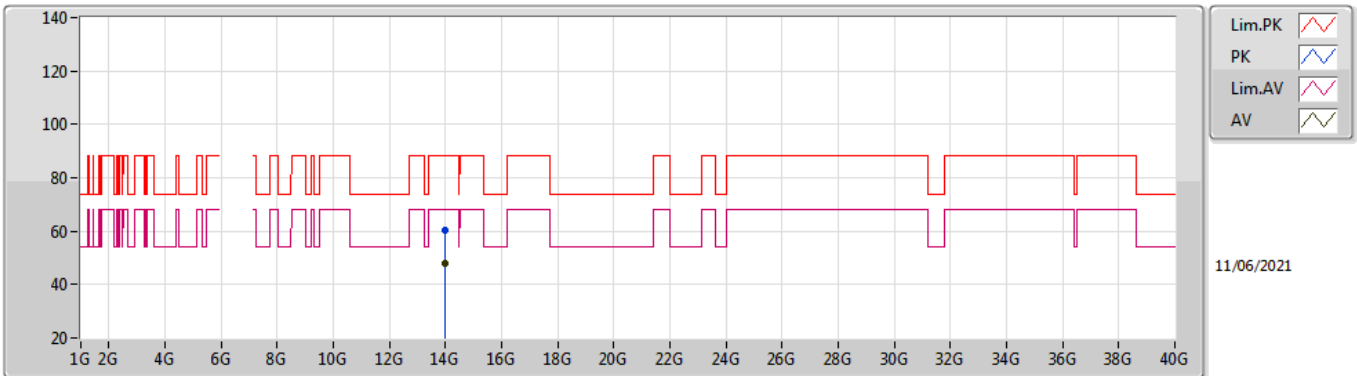


EUT_Z_1TX
Setting 57
04-F-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	13.98392G	60.66	88.20	-27.54	43.72	3	Vertical	191	2.66	-	40.77	10.59	34.42
RMS	13.98804G	47.91	68.20	-20.29	30.96	3	Vertical	191	2.66	-	40.78	10.59	34.42

802.11ax HEW20_Nss1,(MCS0)_1TX

6995MHz_TX

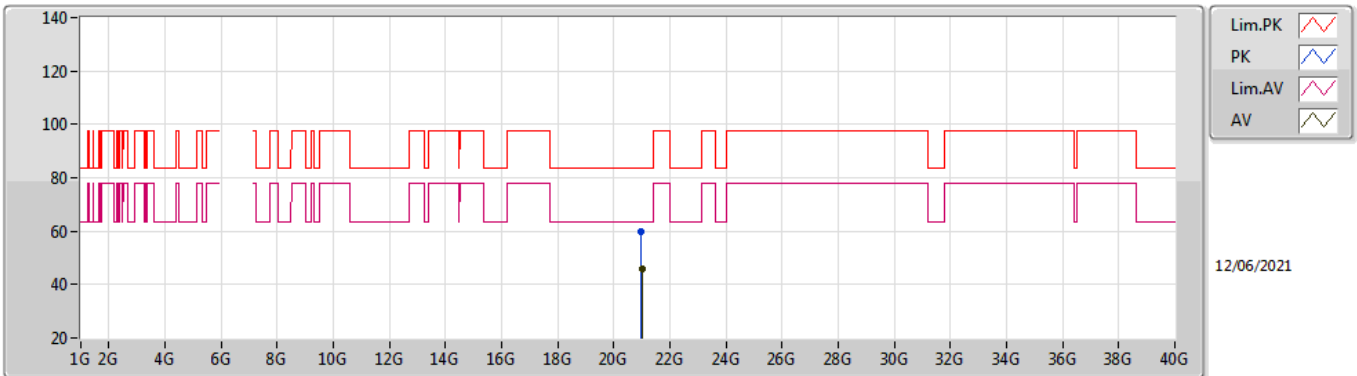


EUT_Z_1TX
Setting 57
04-F-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	13.98236G	60.37	88.20	-27.83	43.44	3	Horizontal	47	2.36	-	40.76	10.59	34.42
RMS	13.99036G	47.95	68.20	-20.25	30.99	3	Horizontal	47	2.36	-	40.78	10.60	34.42

802.11ax HEW20_Nss1,(MCS0)_1TX

6995MHz_TX

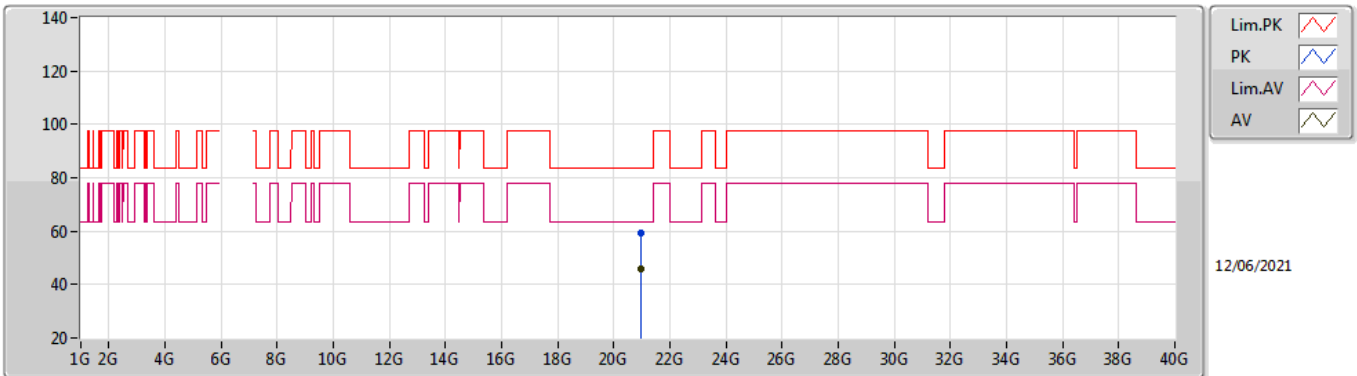


EUT_Z_1TX
Setting 57
04-F-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	20.97608G	60.02	83.54	-23.52	56.90	1	Vertical	178	1.22	-	38.18	14.84	49.90
AV	20.99292G	46.00	63.54	-17.54	42.86	1	Vertical	178	1.22	-	38.19	14.85	49.90

802.11ax HEW20_Nss1,(MCS0)_1TX

6995MHz_TX



EUT_Z_1TX
Setting 57
04-F-S-5

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	20.98172G	59.18	83.54	-24.36	56.06	1	Horizontal	341	1.74	-	38.18	14.84	49.90
AV	20.98324G	45.98	63.54	-17.56	42.86	1	Horizontal	341	1.74	-	38.18	14.84	49.90