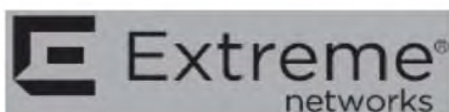


FCC Radio Test Report

FCC ID : QXO-AP460
Equipment : Wireless Access Point
Brand Name : Extreme Networks, Inc.



or Extreme Networks

Model Name : AP460e
Applicant : Extreme Networks, Inc.
6480 Via Del Oro, San Jose, CA 95119, United States
Manufacturer : Extreme Networks, Inc.
6480 Via Del Oro, San Jose, CA 95119, United States
Standard : 47 CFR FCC Part 15.407

The product was received on Mar. 25, 2021, and testing was started from Mar. 28, 2021 and completed on Apr. 09, 2021. We, SPORTON INTERNATIONAL INC. Hsinhua Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown compliance with the applicable technical standards.

The test results in this variant report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC. Hsinhua Laboratory, the test report shall not be reproduced except in full.



Approved by: Allen Lin

SPORTON INTERNATIONAL INC. Hsinhua Laboratory

No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333411, Taiwan (R.O.C.)



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TEL : 886-3-3273456
FAX : 886-3-3270973
Report Template No.: HE1-D1 Ver4.1
FCC ID: QXO-AP460

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 Conducted Output Power	PASS	-
3.4	15.407(a)	Peak Power Spectral Density	PASS	-
3.5	15.407(b)	Unwanted Emissions	PASS	-

Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

Comments and explanations:

The EUT supports beamforming and CDD modes, and the CDD mode is the worse case. Therefore, all test items are evaluated in the report. The beamforming mode only evaluateds the output power.

Reviewed by: Ben Tseng

Report Producer: Debby Hung

1 General Description

1.1 Information

1.1.1 RF General Information

Frequency Range (MHz)	IEEE Std. 802.11	Ch. Frequency (MHz)	Channel Number
5150-5250	a, n (HT20), ac (VHT20) , ax(HEW 20)	5180-5240	36-48 [4]
5250-5350		5260-5320	52-64 [4]
5470-5725		5500-5700	100-140 [11]
Straddle 5720		5720	144 [1]
5725-5850		5745-5825	149-165 [5]
5150-5250	n (HT40), ac (VHT40) , ax(HEW 40)	5190-5230	38-46 [2]
5250-5350		5270-5310	54-62 [2]
5470-5725		5510-5670	102-134 [5]
Straddle 5710		5710	142 [1]
5725-5850		5755-5795	151-159 [2]
5150-5250	ac (VHT80) ,ax(HEW 80)	5210	42 [1]
5250-5350		5290	58 [1]
5470-5725		5530-5610	106-122 [2]
Straddle 5690		5690	138 [1]
5725-5850		5775	155 [1]
5150-5350	ac (VHT160) ,ax(HEW 160)	5250	50 [1]
5470-5725		5570	114 [1]

**Non-Beamforming**

Band	Mode	BWch (MHz)	Nant
5.15-5.25GHz	802.11a	20	1TX
5.25-5.35GHz	802.11a	20	1TX
5.47-5.725GHz	802.11a	20	1TX
5.725-5.85GHz	802.11a	20	1TX
5.15-5.25GHz	802.11ac VHT20	20	1TX
5.25-5.35GHz	802.11ac VHT20	20	1TX
5.47-5.725GHz	802.11ac VHT20	20	1TX
5.725-5.85GHz	802.11ac VHT20	20	1TX
5.15-5.25GHz	802.11ac VHT40	40	1TX
5.25-5.35GHz	802.11ac VHT40	40	1TX
5.47-5.725GHz	802.11ac VHT40	40	1TX
5.725-5.85GHz	802.11ac VHT40	40	1TX
5.15-5.25GHz	802.11ac VHT80	80	1TX
5.25-5.35GHz	802.11ac VHT80	80	1TX
5.47-5.725GHz	802.11ac VHT80	80	1TX
5.725-5.85GHz	802.11ac VHT80	80	1TX
5.15-5.25GHz	802.11ac VHT160	160	1TX
5.25-5.35GHz	802.11ac VHT160	160	1TX
5.47-5.725GHz	802.11ac VHT160	160	1TX
5.15-5.25GHz	802.11ax HEW20	20	1TX
5.25-5.35GHz	802.11ax HEW20	20	1TX
5.47-5.725GHz	802.11ax HEW20	20	1TX
5.725-5.85GHz	802.11ax HEW20	20	1TX
5.15-5.25GHz	802.11ax HEW40	40	1TX
5.25-5.35GHz	802.11ax HEW40	40	1TX
5.47-5.725GHz	802.11ax HEW40	40	1TX
5.725-5.85GHz	802.11ax HEW40	40	1TX
5.15-5.25GHz	802.11ax HEW80	80	1TX
5.25-5.35GHz	802.11ax HEW80	80	1TX
5.725-5.85GHz	802.11ax HEW80	80	1TX
5.47-5.725GHz	802.11ax HEW80	80	1TX
5.15-5.25GHz	802.11ax HEW160	160	1TX
5.25-5.35GHz	802.11ax HEW160	160	1TX
5.47-5.725GHz	802.11ax HEW160	160	1TX



Band	Mode	BWch (MHz)	Nant
5.15-5.25GHz	802.11a	20	2TX
5.25-5.35GHz	802.11a	20	2TX
5.47-5.725GHz	802.11a	20	2TX
5.725-5.85GHz	802.11a	20	2TX
5.15-5.25GHz	802.11ac VHT20	20	2TX
5.25-5.35GHz	802.11ac VHT20	20	2TX
5.47-5.725GHz	802.11ac VHT20	20	2TX
5.725-5.85GHz	802.11ac VHT20	20	2TX
5.15-5.25GHz	802.11ac VHT40	40	2TX
5.25-5.35GHz	802.11ac VHT40	40	2TX
5.47-5.725GHz	802.11ac VHT40	40	2TX
5.725-5.85GHz	802.11ac VHT40	40	2TX
5.15-5.25GHz	802.11ac VHT80	80	2TX
5.25-5.35GHz	802.11ac VHT80	80	2TX
5.47-5.725GHz	802.11ac VHT80	80	2TX
5.725-5.85GHz	802.11ac VHT80	80	2TX
5.15-5.25GHz	802.11ac VHT160	160	2TX
5.25-5.35GHz	802.11ac VHT160	160	2TX
5.47-5.725GHz	802.11ac VHT160	160	2TX
5.15-5.25GHz	802.11ax HEW20	20	2TX
5.25-5.35GHz	802.11ax HEW20	20	2TX
5.47-5.725GHz	802.11ax HEW20	20	2TX
5.725-5.85GHz	802.11ax HEW20	20	2TX
5.15-5.25GHz	802.11ax HEW40	40	2TX
5.25-5.35GHz	802.11ax HEW40	40	2TX
5.47-5.725GHz	802.11ax HEW40	40	2TX
5.725-5.85GHz	802.11ax HEW40	40	2TX
5.15-5.25GHz	802.11ax HEW80	80	2TX
5.25-5.35GHz	802.11ax HEW80	80	2TX
5.47-5.725GHz	802.11ax HEW80	80	2TX
5.725-5.85GHz	802.11ax HEW80	80	2TX
5.15-5.25GHz	802.11ax HEW160	160	2TX
5.25-5.35GHz	802.11ax HEW160	160	2TX
5.47-5.725GHz	802.11ax HEW160	160	2TX



Band	Mode	BWch (MHz)	Nant
5.15-5.25GHz	802.11a	20	4TX
5.25-5.35GHz	802.11a	20	4TX
5.47-5.725GHz	802.11a	20	4TX
5.725-5.85GHz	802.11a	20	4TX
5.15-5.25GHz	802.11ac VHT20	20	4TX
5.25-5.35GHz	802.11ac VHT20	20	4TX
5.47-5.725GHz	802.11ac VHT20	20	4TX
5.725-5.85GHz	802.11ac VHT20	20	4TX
5.15-5.25GHz	802.11ac VHT40	40	4TX
5.25-5.35GHz	802.11ac VHT40	40	4TX
5.47-5.725GHz	802.11ac VHT40	40	4TX
5.725-5.85GHz	802.11ac VHT40	40	4TX
5.15-5.25GHz	802.11ac VHT80	80	4TX
5.25-5.35GHz	802.11ac VHT80	80	4TX
5.47-5.725GHz	802.11ac VHT80	80	4TX
5.725-5.85GHz	802.11ac VHT80	80	4TX
5.15-5.25GHz	802.11ac VHT160	160	4TX
5.25-5.35GHz	802.11ac VHT160	160	4TX
5.47-5.725GHz	802.11ac VHT160	160	4TX
5.15-5.25GHz	802.11ax HEW20	20	4TX
5.25-5.35GHz	802.11ax HEW20	20	4TX
5.47-5.725GHz	802.11ax HEW20	20	4TX
5.725-5.85GHz	802.11ax HEW20	20	4TX
5.15-5.25GHz	802.11ax HEW40	40	4TX
5.25-5.35GHz	802.11ax HEW40	40	4TX
5.47-5.725GHz	802.11ax HEW40	40	4TX
5.725-5.85GHz	802.11ax HEW40	40	4TX
5.15-5.25GHz	802.11ax HEW80	80	4TX
5.25-5.35GHz	802.11ax HEW80	80	4TX
5.47-5.725GHz	802.11ax HEW80	80	4TX
5.725-5.85GHz	802.11ax HEW80	80	4TX
5.15-5.25GHz	802.11ax HEW160	160	4TX
5.25-5.35GHz	802.11ax HEW160	160	4TX
5.47-5.725GHz	802.11ax HEW160	160	4TX

Beamforming

Band	Mode	BWch (MHz)	Nant
5.15-5.25GHz	802.11ax HEW20-BF	20	4TX
5.25-5.35GHz	802.11ax HEW20-BF	20	4TX
5.47-5.725GHz	802.11ax HEW20-BF	20	4TX
5.725-5.85GHz	802.11ax HEW20-BF	20	4TX
5.15-5.25GHz	802.11ax HEW40-BF	40	4TX
5.25-5.35GHz	802.11ax HEW40-BF	40	4TX
5.47-5.725GHz	802.11ax HEW40-BF	40	4TX
5.725-5.85GHz	802.11ax HEW40-BF	40	4TX
5.15-5.25GHz	802.11ax HEW80-BF	80	4TX
5.25-5.35GHz	802.11ax HEW80-BF	80	4TX
5.47-5.725GHz	802.11ax HEW80-BF	80	4TX
5.725-5.85GHz	802.11ax HEW80-BF	80	4TX
5.15-5.25GHz	802.11ax HEW160-BF	160	4TX
5.25-5.35GHz	802.11ax HEW160-BF	160	4TX
5.47-5.725GHz	802.11ax HEW160-BF	160	4TX
5.725-5.85GHz	802.11ax HEW160-BF	160	4TX

Note:

- ♦ 11a, HT20 and HT40 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM modulation.
- ♦ VHT20, VHT40, VHT80, VHT160 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM, 256QAM modulation.
- ♦ HEW20, HEW40, HEW80, HEW 160 use a combination of OFDMA-BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM modulation.
- ♦ BWch is the nominal channel bandwidth.

1.1.2 Antenna Information

(AP460e) External Antenna

Group	Brand	Model Number (P/N)	Antenna Type	Connector	Antenna Gain (dBi)		
					2.4GHz	5GHz	BLE/Thread
1	Extreme	ML-2452-APA2-01	Omni	RP SMA male	3.17	4.85	-
2	Extreme	ML-2452-APA2-02	Omni	RP SMA male	3.17	4.85	-
3	Extreme	ML-2452-HPA5-036	Omni	RP SMA male	3.9	5.7	-
4	Extreme	ML-2452-HPAG4A6-01	Omni	N male	4	7.3	-
5	Extreme	ML-2452-PNA5-01R	Panel	Type N-Male	4.5	5	-
6	Extreme	ML-2452-PTA4M4-036	Omni	Rev-Polarity SMA Male 4x	5	6.6	-
7	Extreme	ML-2452-HPAG5A8-01	Omni	N male	5	8	-
8	Extreme	WS-AO-DQ04360N	Omni	N male	5.5	6	-
9	Extreme	AI-DQ04360S	Omni	RP SMA male	5.5	6	-
10	Extreme	ML-2452-SEC6M4-036 / WS-AI-DQ05120	Panel	RP SMA male	6.92	7.23	-
11	Extreme	WS-AI-DE07025	Panel	RP SMA male	7.5	6.5	-
12	Extreme	ML-2452-PNA7-01R	Panel 1	Type N-Male	7.8	10.7	7.8
13	Extreme	WS-AI-DE10055	Panel 2	RP SMA male	10.5	7.5	-
14	Extreme	ML-2499-HPA8-01	Dipole	N male	-	-	8
15	Extreme	AO-DD19017N	Panel	N male	-	20	-

Note 1: Group 15 were measured during the test for WLAN 5G Mode.

Note 2: Group 15 only for radio 2 (5G) use.

For 5GHz function:

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

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

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

Port 1 and port 2 could transmit/receive simultaneously.

For IEEE 802.11 a/n/ac/ax mode (4TX/4RX)

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

1.1.3 EUT Information

Operational Condition				
EUT Power Type	From PoE			
EUT Function	☐	Outdoor AP	☐	Indoor AP
	☒	Fixed P2P AP	☐	Outdoor/Indoor Client
Beamforming Function	☒	With beamforming	☐	Without beamforming
TPC Function	☒	With TPC Function	☐	Without TPC Function
Weather Band	☒	With 5600~5650MHz	☐	Without 5600~5650MHz
Type of EUT				
☒	Stand-alone			
☐	Combined (EUT where the radio part is fully integrated within another device)			
	Combined Equipment - Brand Name / Model No.:		...	
☐	Plug-in radio (EUT intended for a variety of host systems)			
	Host System - Brand Name / Model No.:			
☐	Other:			

1.1.4 Table for Permissive Change

This product is an extension of original one reported under Sporton project number: FR970235-01AN.

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

Modifications	Performance Checking
According to the applicant's declaration on the product application. The model name "AP460e" add the below function : - Fixed P2P AP Function was added. - Antenna(Group 15) was added. The antenna(Group 15) only can be used when the EUT operates using Radio 2 with the Fixed P2P AP mode.	All RF test item were evaluated

1.1.5 Mode Test Duty Cycle

Non-Beamforming

Radio 2_1T1S

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq 1/T$
802.11a_Nss1,(6Mbps)_1TX	0.946	0.24	2.064m	1k
802.11n HT20_Nss1,(MCS0)_1TX	0.95	0.22	1.92m	1k
802.11n HT40_Nss1,(MCS0)_1TX	0.901	0.45	944.375u	3k
802.11ac VHT20_Nss1,(MCS0)_1TX	0.982	0.08	n/a (DC $\geq$ 0.98)	n/a (DC $\geq$ 0.98)
802.11ac VHT40_Nss1,(MCS0)_1TX	0.968	0.14	952.188u	3k
802.11ac VHT80_Nss1,(MCS0)_1TX	0.942	0.26	460.313u	3k
802.11ac VHT160_Nss1,(MCS0)_1TX	0.898	0.47	252.5u	10k
802.11ax HEW20_Nss1,(MCS0)_1TX	0.978	0.1	1.488m	1k
802.11ax HEW40_Nss1,(MCS0)_1TX	0.963	0.16	772.5u	3k
802.11ax HEW80_Nss1,(MCS0)_1TX	0.926	0.33	401.25u	3k
802.11ax HEW160_Nss1,(MCS0)_1TX	0.884	0.54	232.5u	10k

Radio 2_2T2S

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq 1/T$
802.11a_Nss1,(6Mbps)_2TX	0.946	0.24	2.064m	1k
802.11n HT20_Nss2,(MCS0)_2TX	0.95	0.22	1.92m	1k
802.11n HT40_Nss2,(MCS0)_2TX	0.901	0.45	944.375u	3k
802.11ac VHT20_Nss2,(MCS0)_2TX	0.971	0.13	988.438u	3k
802.11ac VHT40_Nss2,(MCS0)_2TX	0.947	0.24	500.312u	3k
802.11ac VHT80_Nss2,(MCS0)_2TX	0.898	0.47	256.563u	10k
802.11ac VHT160_Nss2,(MCS0)_2TX	0.838	0.77	152.5u	10k
802.11ax HEW20_Nss2,(MCS0)_2TX	0.963	0.16	779.688u	3k
802.11ax HEW40_Nss2,(MCS0)_2TX	0.929	0.32	422.188u	3k
802.11ax HEW80_Nss2,(MCS0)_2TX	0.886	0.53	239.688u	10k
802.11ax HEW160_Nss2,(MCS0)_2TX	0.827	0.82	154.063u	10k

Radio 2_4T2S

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq 1/T$
802.11a_Nss1,(6Mbps)_4TX	0.946	0.24	2.064m	1k
802.11n HT20_Nss2,(MCS0)_4TX	0.95	0.22	1.92m	1k
802.11n HT40_Nss2,(MCS0)_4TX	0.911	0.4	944.375u	3k
802.11ac VHT20_Nss2,(MCS0)_4TX	0.982	0.08	n/a (DC $\geq$ 0.98)	n/a (DC $\geq$ 0.98)
802.11ac VHT40_Nss2,(MCS0)_4TX	0.968	0.14	952.5u	3k
802.11ac VHT80_Nss2,(MCS0)_4TX	0.942	0.26	460.313u	3k
802.11ac VHT160_Nss2,(MCS0)_4TX	0.898	0.47	252.5u	10k
802.11ax HEW20_Nss2,(MCS0)_4TX	0.981	0.08	n/a (DC $\geq$ 0.98)	n/a (DC $\geq$ 0.98)
802.11ax HEW40_Nss2,(MCS0)_4TX	0.963	0.16	772.5u	3k
802.11ax HEW80_Nss2,(MCS0)_4TX	0.926	0.33	401.25u	3k
802.11ax HEW160_Nss2,(MCS0)_4TX	0.884	0.54	232.5u	10k

Radio 2_4T4S

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq 1/T$
802.11n HT20_Nss4,(MCS0)_4TX	0.95	0.22	1.92m	1k
802.11n HT40_Nss4,(MCS0)_4TX	0.901	0.45	944.375u	3k
802.11ac VHT20_Nss4,(MCS0)_4TX	0.982	0.08	n/a (DC $\geq$ 0.98)	n/a (DC $\geq$ 0.98)
802.11ac VHT40_Nss4,(MCS0)_4TX	0.968	0.14	952.5u	3k
802.11ac VHT80_Nss4,(MCS0)_4TX	0.939	0.27	460.625u	3k
802.11ac VHT160_Nss4,(MCS0)_4TX	0.895	0.48	252.5u	10k
802.11ax HEW20_Nss4,(MCS0)_4TX	0.978	0.1	1.488m	1k
802.11ax HEW40_Nss4,(MCS0)_4TX	0.96	0.18	772.5u	3k
802.11ax HEW80_Nss4,(MCS0)_4TX	0.926	0.33	401.25u	3k
802.11ax HEW160_Nss4,(MCS0)_4TX	0.884	0.54	232.5u	10k

Beamforming
Radio 2_4T2S

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq 1/T$
802.11ax HEW20-BF_Nss2,(MCS0)_4TX	0.981	0.08	n/a (DC $\geq$ 0.98)	n/a (DC $\geq$ 0.98)
802.11ax HEW40-BF_Nss2,(MCS0)_4TX	0.963	0.16	772.5u	3k
802.11ax HEW80-BF_Nss2,(MCS0)_4TX	0.926	0.33	401.25u	3k
802.11ax HEW160-BF_Nss2,(MCS0)_4TX	0.884	0.54	232.5u	10k

1.2 Testing Applied Standards

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

- ♦ 47 CFR FCC Part 15
- ♦ ANSI C63.10-2013
- ♦ KDB 789033 D02 v02r01

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

- ♦ KDB 662911 D01 v02r01
- ♦ KDB 414788 D01 v01r01

1.3 Testing Location Information

Test Lab. : Sporton International Inc. Hsinhua Laboratory				
☒ Hsinhua (TAF: 3785)	ADD: No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333411, Taiwan (R.O.C.)			
	TEL: 886-3-327-3456		FAX: 886-3-327-0973	
Test site Designation No. TW3785 with FCC.				
Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date
AC Conduction	CO04-HY	Edward Wang	20.8~22.7°C / 54~58%	09/Apr/2021
RF Conducted	TH06-HY	Vivi Jiang	20.1~26.9°C / 50~60%	06/Apr/2021~08/Apr/2021
Radiated	03CH02-HY	Frank Hsieh	20.2~26.9°C / 49~58%	28/Mar/2021~02/Apr/2021
☐ Wen 33rd.St. (TAF: 3785)	ADD: No.14-1, Ln. 19, Wen 33rd St., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.)			
	TEL: 886-3-318-0787		FAX: 886-3-318-0287	
Test site Designation No. TW0008 with FCC.				

1.4 Measurement Uncertainty

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

Test Items	Uncertainty	Remark
Conducted Emission (150kHz ~ 30MHz)	0.9 dB	Confidence levels of 95%
Radiated Emission (9kHz ~ 30MHz)	2.4 dB	Confidence levels of 95%
Radiated Emission (30MHz ~ 1,000MHz)	3.7 dB	Confidence levels of 95%
Radiated Emission (1GHz ~ 18GHz)	3.6 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	3.5 dB	Confidence levels of 95%
Conducted Emission	1.0 dB	Confidence levels of 95%
Temperature	0.41 °C	Confidence levels of 95%
Humidity	3.4 %	Confidence levels of 95%



2 Test Configuration of EUT

2.1 Test Channel Mode

Test Software Version	accessMTool_REL_3_1_0_1
-----------------------	-------------------------

Non-Beamforming Radio 2_1T1S

Mode	Power Setting
802.11a_Nss1,(6Mbps)_1TX	-
5180MHz	9
5200MHz	9
5240MHz	9
5260MHz	7.75
5300MHz	7.75
5320MHz	7.75
5500MHz	8.25
5580MHz	7.75
5700MHz	8
5720MHz Straddle 5.47-5.725GHz	7.75
5720MHz Straddle 5.725-5.85GHz	7.75
5745MHz	9
5785MHz	9
5825MHz	9
802.11n HT20_Nss1,(MCS0)_1TX	-
5180MHz	9
5200MHz	9
5240MHz	9
5260MHz	7.5
5300MHz	7.5
5320MHz	7.5
5500MHz	7.75
5580MHz	7.75
5700MHz	7.75
5720MHz Straddle 5.47-5.725GHz	7.75
5720MHz Straddle 5.725-5.85GHz	7.75
5745MHz	9
5785MHz	9



Mode	Power Setting
5825MHz	9
802.11n HT40_Nss1,(MCS0)_1TX	-
5190MHz	9
5230MHz	9
5270MHz	6.75
5310MHz	7
5510MHz	7.5
5550MHz	7.5
5670MHz	7.25
5710MHz Straddle 5.47-5.725GHz	7.75
5710MHz Straddle 5.725-5.85GHz	7.75
5755MHz	9
5795MHz	9
802.11ac VHT20_Nss1,(MCS0)_1TX	-
5180MHz	9
5200MHz	9
5240MHz	9
5260MHz	7.5
5300MHz	7.5
5320MHz	7.5
5500MHz	7.75
5580MHz	7.75
5700MHz	7.75
5720MHz Straddle 5.47-5.725GHz	7.75
5720MHz Straddle 5.725-5.85GHz	7.75
5745MHz	9
5785MHz	9
5825MHz	9
802.11ac VHT40_Nss1,(MCS0)_1TX	-
5190MHz	9
5230MHz	9
5270MHz	6.75
5310MHz	7
5510MHz	7.5
5550MHz	7.5



Mode	Power Setting
5670MHz	7.25
5710MHz Straddle 5.47-5.725GHz	7.75
5710MHz Straddle 5.725-5.85GHz	7.75
5755MHz	9
5795MHz	9
802.11ac VHT80_Nss1,(MCS0)_1TX	-
5210MHz	9
5290MHz	7.5
5530MHz	7.25
5610MHz	7.25
5690MHz Straddle 5.47-5.725GHz	7.25
5690MHz Straddle 5.725-5.85GHz	7.25
5775MHz	9
802.11ac VHT160_Nss1,(MCS0)_1TX	-
5250MHz Straddle 5.15-5.25GHz	9
5250MHz Straddle 5.25-5.35GHz	9
5570MHz	7.5
802.11ax HEW20_Nss1,(MCS0)_1TX	-
5180MHz	9
5200MHz	9
5240MHz	9
5260MHz	7.5
5300MHz	7.5
5320MHz	7.5
5500MHz	7.75
5580MHz	7.75
5700MHz	7.75
5720MHz Straddle 5.47-5.725GHz	7.75
5720MHz Straddle 5.725-5.85GHz	7.75
5745MHz	9
5785MHz	9
5825MHz	9
802.11ax HEW40_Nss1,(MCS0)_1TX	-
5190MHz	9
5230MHz	9



Mode	Power Setting
5270MHz	6.75
5310MHz	7
5510MHz	7.5
5550MHz	7.5
5670MHz	7.25
5710MHz Straddle 5.47-5.725GHz	7.75
5710MHz Straddle 5.725-5.85GHz	7.75
5755MHz	9
5795MHz	9
802.11ax HEW80_Nss1,(MCS0)_1TX	-
5210MHz	9
5290MHz	7.5
5530MHz	7.25
5610MHz	7.25
5690MHz Straddle 5.47-5.725GHz	7.25
5690MHz Straddle 5.725-5.85GHz	7.25
5775MHz	9
802.11ax HEW160_Nss1,(MCS0)_1TX	-
5250MHz Straddle 5.15-5.25GHz	9
5250MHz Straddle 5.25-5.35GHz	9
5570MHz	7.5

**Radio 2_2T2S**

Mode	Power Setting
802.11a_Nss1,(6Mbps)_2TX	-
5180MHz	9
5200MHz	9
5240MHz	9
5260MHz	2.75
5300MHz	2.75
5320MHz	2.75
5500MHz	3
5580MHz	3
5700MHz	3
5720MHz Straddle 5.47-5.725GHz	3.25
5720MHz Straddle 5.725-5.85GHz	3.25
5745MHz	9
5785MHz	9
5825MHz	9
802.11n HT20_Nss2,(MCS0)_2TX	-
5180MHz	9
5200MHz	9
5240MHz	9
5260MHz	4.75
5300MHz	4.75
5320MHz	4.75
5500MHz	5.25
5580MHz	5.25
5700MHz	5.25
5720MHz Straddle 5.47-5.725GHz	5.5
5720MHz Straddle 5.725-5.85GHz	5.5
5745MHz	9
5785MHz	9
5825MHz	9
802.11n HT40_Nss2,(MCS0)_2TX	-
5190MHz	9
5230MHz	9
5270MHz	4.75



Mode	Power Setting
5310MHz	4.5
5510MHz	5
5550MHz	5
5670MHz	4.75
5710MHz Straddle 5.47-5.725GHz	5.25
5710MHz Straddle 5.725-5.85GHz	5.25
5755MHz	9
5795MHz	9
802.11ac VHT20_Nss2,(MCS0)_2TX	-
5180MHz	9
5200MHz	9
5240MHz	9
5260MHz	4.75
5300MHz	4.75
5320MHz	4.75
5500MHz	5.25
5580MHz	5.25
5700MHz	5.25
5720MHz Straddle 5.47-5.725GHz	5.5
5720MHz Straddle 5.725-5.85GHz	5.5
5745MHz	9
5785MHz	9
5825MHz	9
802.11ac VHT40_Nss2,(MCS0)_2TX	-
5190MHz	9
5230MHz	9
5270MHz	4.75
5310MHz	4.5
5510MHz	5
5550MHz	5
5670MHz	4.75
5710MHz Straddle 5.47-5.725GHz	5.25
5710MHz Straddle 5.725-5.85GHz	5.25
5755MHz	9
5795MHz	9



Mode	Power Setting
802.11ac VHT80_Nss2,(MCS0)_2TX	-
5210MHz	9
5290MHz	4.75
5530MHz	4.75
5610MHz	4.75
5690MHz Straddle 5.47-5.725GHz	5
5690MHz Straddle 5.725-5.85GHz	5
5775MHz	9
802.11ac VHT160_Nss2,(MCS0)_2TX	-
5250MHz Straddle 5.15-5.25GHz	7.5
5250MHz Straddle 5.25-5.35GHz	7.5
5570MHz	9
802.11ax HEW20_Nss2,(MCS0)_2TX	-
5180MHz	9
5200MHz	9
5240MHz	9
5260MHz	4.75
5300MHz	4.75
5320MHz	4.75
5500MHz	5.25
5580MHz	5.25
5700MHz	5.25
5720MHz Straddle 5.47-5.725GHz	5.5
5720MHz Straddle 5.725-5.85GHz	5.5
5745MHz	9
5785MHz	9
5825MHz	9
802.11ax HEW40_Nss2,(MCS0)_2TX	-
5190MHz	9
5230MHz	9
5270MHz	4.75
5310MHz	4.5
5510MHz	5
5550MHz	5
5670MHz	4.75



Mode	Power Setting
5710MHz Straddle 5.47-5.725GHz	5.25
5710MHz Straddle 5.725-5.85GHz	5.25
5755MHz	9
5795MHz	9
802.11ax HEW80_Nss2,(MCS0)_2TX	-
5210MHz	9
5290MHz	4.75
5530MHz	4.75
5610MHz	4.75
5690MHz Straddle 5.47-5.725GHz	5
5690MHz Straddle 5.725-5.85GHz	5
5775MHz	9
802.11ax HEW160_Nss2,(MCS0)_2TX	-
5250MHz Straddle 5.15-5.25GHz	7.5
5250MHz Straddle 5.25-5.35GHz	7.5
5570MHz	5.25

**Radio 2_4T2S**

Mode	Power Setting
802.11a_Nss1,(6Mbps)_4TX	-
5180MHz	9
5200MHz	9
5240MHz	9
5260MHz	-3.25
5300MHz	-3.25
5320MHz	-3.25
5500MHz	-2.75
5580MHz	-3
5700MHz	-2.75
5720MHz Straddle 5.47-5.725GHz	-2.75
5720MHz Straddle 5.725-5.85GHz	-2.75
5745MHz	9
5785MHz	9
5825MHz	9
802.11n HT20_Nss2,(MCS0)_4TX	-
5180MHz	9
5200MHz	9
5240MHz	9
5260MHz	-0.5
5300MHz	-0.5
5320MHz	-0.5
5500MHz	0.25
5580MHz	0.25
5700MHz	0.25
5720MHz Straddle 5.47-5.725GHz	0.25
5720MHz Straddle 5.725-5.85GHz	0.25
5745MHz	9
5785MHz	9
5825MHz	9
802.11n HT40_Nss2,(MCS0)_4TX	-
5190MHz	9
5230MHz	9
5270MHz	2.25



Mode	Power Setting
5310MHz	2.25
5510MHz	2.25
5550MHz	2.25
5670MHz	2.25
5710MHz Straddle 5.47-5.725GHz	2.75
5710MHz Straddle 5.725-5.85GHz	2.75
5755MHz	9
5795MHz	9
802.11ac VHT20_Nss2,(MCS0)_4TX	-
5180MHz	9
5200MHz	9
5240MHz	9
5260MHz	-0.5
5300MHz	-0.5
5320MHz	-0.5
5500MHz	0.25
5580MHz	0.25
5700MHz	0.25
5720MHz Straddle 5.47-5.725GHz	0.25
5720MHz Straddle 5.725-5.85GHz	0.25
5745MHz	9
5785MHz	9
5825MHz	9
802.11ac VHT40_Nss2,(MCS0)_4TX	-
5190MHz	9
5230MHz	9
5270MHz	2.25
5310MHz	2.25
5510MHz	2.25
5550MHz	2.25
5670MHz	2.25
5710MHz Straddle 5.47-5.725GHz	2.75
5710MHz Straddle 5.725-5.85GHz	2.75
5755MHz	9
5795MHz	9



Mode	Power Setting
802.11ac VHT80_Nss2,(MCS0)_4TX	-
5210MHz	9
5290MHz	2.25
5530MHz	2.25
5610MHz	2.25
5690MHz Straddle 5.47-5.725GHz	2.75
5690MHz Straddle 5.725-5.85GHz	2.75
5775MHz	9
802.11ac VHT160_Nss2,(MCS0)_4TX	-
5250MHz Straddle 5.15-5.25GHz	4.5
5250MHz Straddle 5.25-5.35GHz	4.5
5570MHz	2.25
802.11ax HEW20_Nss2,(MCS0)_4TX	-
5180MHz	9
5200MHz	9
5240MHz	9
5260MHz	-0.5
5300MHz	-0.5
5320MHz	-0.5
5500MHz	0.25
5580MHz	0.25
5700MHz	0.25
5720MHz Straddle 5.47-5.725GHz	0.25
5720MHz Straddle 5.725-5.85GHz	0.25
5745MHz	9
5785MHz	9
5825MHz	9
802.11ax HEW40_Nss2,(MCS0)_4TX	-
5190MHz	9
5230MHz	9
5270MHz	2.25
5310MHz	2.25
5510MHz	2.25
5550MHz	2.25
5670MHz	2.25



Mode	Power Setting
5710MHz Straddle 5.47-5.725GHz	2.75
5710MHz Straddle 5.725-5.85GHz	2.75
5755MHz	9
5795MHz	9
802.11ax HEW80_Nss2,(MCS0)_4TX	-
5210MHz	9
5290MHz	2.25
5530MHz	2.25
5610MHz	2.25
5690MHz Straddle 5.47-5.725GHz	2.75
5690MHz Straddle 5.725-5.85GHz	2.75
5775MHz	9
802.11ax HEW160_Nss2,(MCS0)_4TX	-
5250MHz Straddle 5.15-5.25GHz	4.5
5250MHz Straddle 5.25-5.35GHz	4.5
5570MHz	2.25

**Radio 2_4T4S**

Mode	Power Setting
802.11n HT20_Nss4,(MCS0)_4TX	-
5180MHz	9
5200MHz	9
5240MHz	9
5260MHz	2
5300MHz	2
5320MHz	2
5500MHz	2
5580MHz	2
5700MHz	2
5720MHz Straddle 5.47-5.725GHz	2.5
5720MHz Straddle 5.725-5.85GHz	2.5
5745MHz	9
5785MHz	9
5825MHz	9
802.11n HT40_Nss4,(MCS0)_4TX	-
5190MHz	8.25
5230MHz	9
5270MHz	2.25
5310MHz	2.25
5510MHz	2.25
5550MHz	2.25
5670MHz	2.25
5710MHz Straddle 5.47-5.725GHz	2.5
5710MHz Straddle 5.725-5.85GHz	2.5
5755MHz	9
5795MHz	9
802.11ac VHT20_Nss4,(MCS0)_4TX	-
5180MHz	9
5200MHz	9
5240MHz	9
5260MHz	2
5300MHz	2
5320MHz	2



Mode	Power Setting
5500MHz	2
5580MHz	2
5700MHz	2
5720MHz Straddle 5.47-5.725GHz	2.5
5720MHz Straddle 5.725-5.85GHz	2.5
5745MHz	9
5785MHz	9
5825MHz	9
802.11ac VHT40_Nss4,(MCS0)_4TX	-
5190MHz	8.25
5230MHz	9
5270MHz	2.25
5310MHz	2.25
5510MHz	2.25
5550MHz	2.25
5670MHz	2.25
5710MHz Straddle 5.47-5.725GHz	2.5
5710MHz Straddle 5.725-5.85GHz	2.5
5755MHz	9
5795MHz	9
802.11ac VHT80_Nss4,(MCS0)_4TX	-
5210MHz	8.5
5290MHz	2.25
5530MHz	2.25
5610MHz	2.25
5690MHz Straddle 5.47-5.725GHz	2.5
5690MHz Straddle 5.725-5.85GHz	2.5
5775MHz	9
802.11ac VHT160_Nss4,(MCS0)_4TX	-
5250MHz Straddle 5.15-5.25GHz	4.75
5250MHz Straddle 5.25-5.35GHz	4.75
5570MHz	2.25
802.11ax HEW20_Nss4,(MCS0)_4TX	-
5180MHz	9
5200MHz	9



Mode	Power Setting
5240MHz	9
5260MHz	2
5300MHz	2
5320MHz	2
5500MHz	2
5580MHz	2
5700MHz	2
5720MHz Straddle 5.47-5.725GHz	2.5
5720MHz Straddle 5.725-5.85GHz	2.5
5745MHz	9
5785MHz	9
5825MHz	9
802.11ax HEW40_Nss4,(MCS0)_4TX	-
5190MHz	8.25
5230MHz	9
5270MHz	2.25
5310MHz	2.25
5510MHz	2.25
5550MHz	2.25
5670MHz	2.25
5710MHz Straddle 5.47-5.725GHz	2.5
5710MHz Straddle 5.725-5.85GHz	2.5
5755MHz	9
5795MHz	9
802.11ax HEW80_Nss4,(MCS0)_4TX	-
5210MHz	8.5
5290MHz	2.25
5530MHz	2.25
5610MHz	2.25
5690MHz Straddle 5.47-5.725GHz	2.5
5690MHz Straddle 5.725-5.85GHz	2.5
5775MHz	9
802.11ax HEW160_Nss4,(MCS0)_4TX	-
5250MHz Straddle 5.15-5.25GHz	4.75
5250MHz Straddle 5.25-5.35GHz	4.75



Mode	Power Setting
5570MHz	2.25

**Beamforming
Radio 2_4T2S**

Mode	Power Setting
802.11ax HEW20-BF_Nss2,(MCS0)_4TX	-
5180MHz	-3
5200MHz	-3
5240MHz	-3
5260MHz	-12.5
5300MHz	-12.5
5320MHz	-12.5
5500MHz	-11.75
5580MHz	-11.75
5700MHz	-11.75
5720MHz Straddle 5.47-5.725GHz	-11.75
5720MHz Straddle 5.725-5.85GHz	-11.75
5745MHz	-3
5785MHz	-3
5825MHz	-3
802.11ax HEW40-BF_Nss2,(MCS0)_4TX	-
5190MHz	-3
5230MHz	-3
5270MHz	-9.75
5310MHz	-9.75
5510MHz	-9.75
5550MHz	-9.75
5670MHz	-9.75
5710MHz Straddle 5.47-5.725GHz	-9.25
5710MHz Straddle 5.725-5.85GHz	-9.25
5755MHz	-3
5795MHz	-3
802.11ax HEW80-BF_Nss2,(MCS0)_4TX	-
5210MHz	-3
5290MHz	-9.75



Mode	Power Setting
5530MHz	-9.75
5610MHz	-9.75
5690MHz Straddle 5.47-5.725GHz	-9.25
5690MHz Straddle 5.725-5.85GHz	-9.25
5775MHz	-3
802.11ax HEW160-BF_Nss2,(MCS0)_4TX	-
5250MHz Straddle 5.15-5.25GHz	-7.5
5250MHz Straddle 5.25-5.35GHz	-7.5
5570MHz	-9.75

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	CTX
1	PoE Mode

The Worst Case Mode for Following Conformance Tests	
Tests Item	Emission Bandwidth Maximum Conducted Output Power Peak Power Spectral Density
Test Condition	Conducted measurement at transmit chains

The Worst Case Mode for Following Conformance Tests	
Tests Item	Unwanted Emissions
Test Condition	Radiated measurement If EUT consist of multiple antenna assembly (multiple antenna are used in EUT regardless of spatial multiplexing MIMO configuration), the radiated test should be performed with highest antenna gain of each antenna type.
Operating Mode < 1GHz	CTX
1	PoE Mode (Radio 2_1T1S)
2	PoE Mode (Radio 2_2T2S)
3	PoE Mode (Radio 2_4T2S)
4	PoE Mode (Radio 2_4T4S)
Operating Mode > 1GHz	CTX
Orthogonal Planes of EUT	Z Plane
	
Worst Planes of EUT	V



The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis
Operating Mode	CTX
1	WLAN 2.4G+ WLAN 5G+ WLAN 2.4G+Thread
2	WLAN 2.4G+ WLAN 5G+ WLAN 2.4G+BT
3	WLAN 2.4G+ WLAN 5G+ WLAN 5G+Thread
4	WLAN 2.4G+ WLAN 5G+ WLAN 5G+BT
Refer to Sporton Test Report No.: FA970235-04 for Co-location RF Exposure Evaluation.	

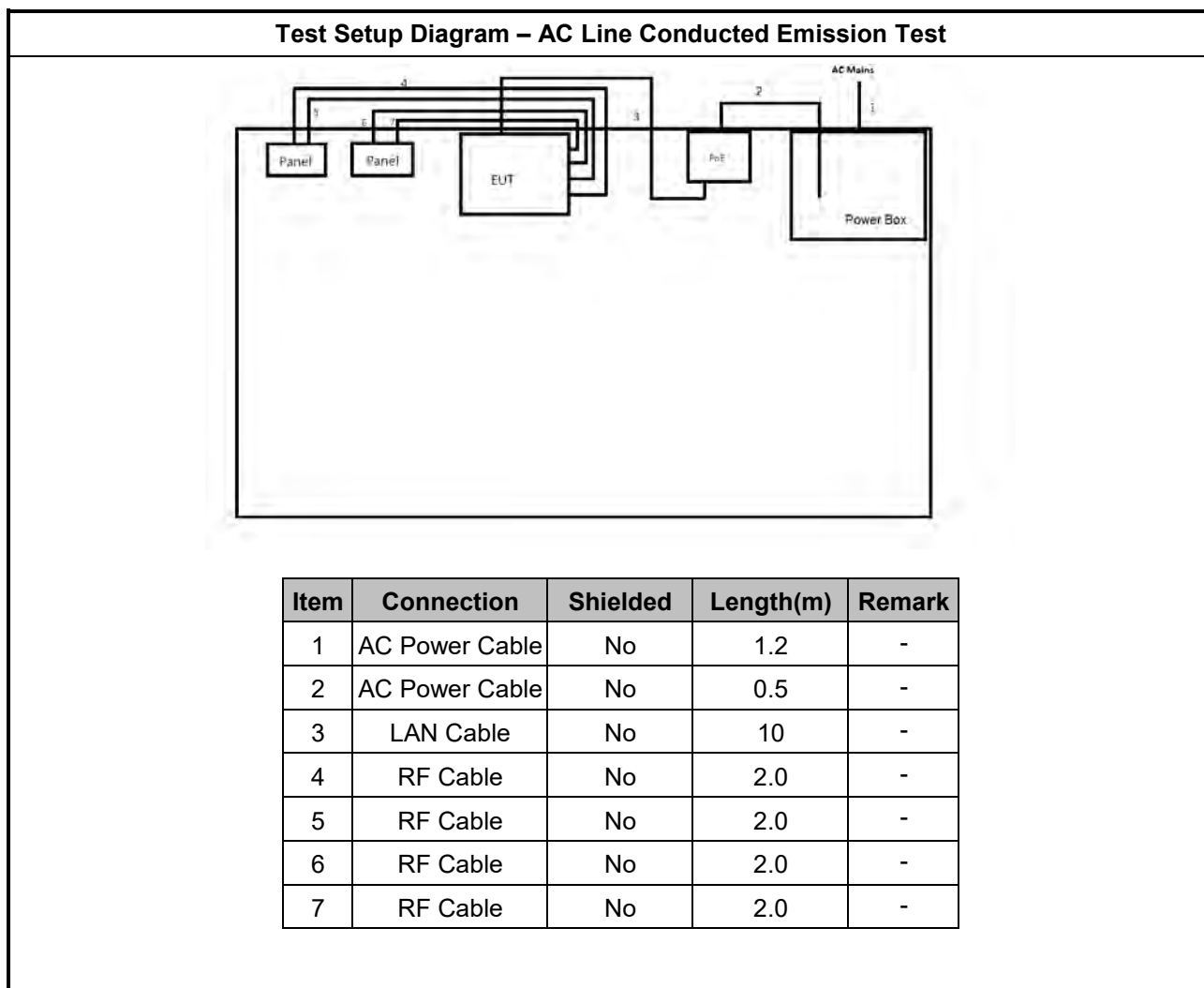
2.3 Support Equipment

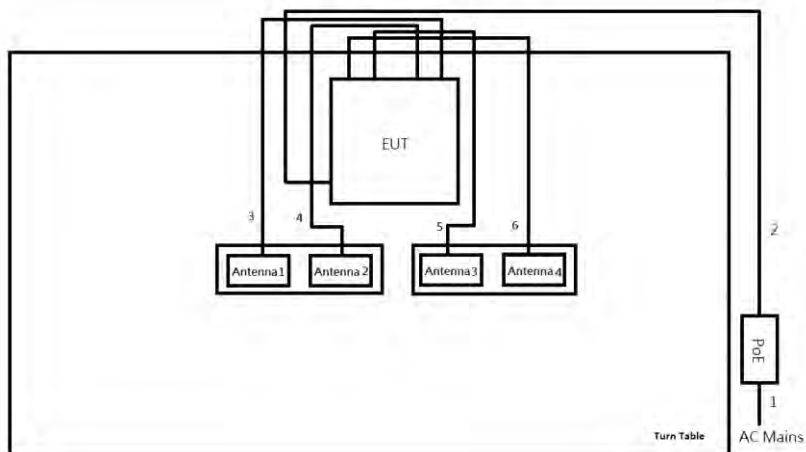
Support Equipment – AC Conduction					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	PoE	EnGenius	EPA5006GP	-	Provided by Customer
2	AC Power Cable	-	-	-	Provided by Customer
3	LAN Cable	Power Sync	CAT-6E-10	-	-
4	Panel Antenna	Extreme	AO-DD19017N	-	-
5	Panel Antenna	Extreme	AO-DD19017N	-	-

Support Equipment – Conducted					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	Notebook	DELL	E5410	-	-
2	Adapter for NB	DELL	HA65NM130	-	-

Support Equipment – Radiated					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	LAN Cable	Power Sync	CAT-6E-10	-	-
2	Panel Antenna	Extreme	AO-DD19017N	-	-
3	Panel Antenna	Extreme	AO-DD19017N	-	-
4	POE	EnGenius	EPA5006GP	-	Provided by Customer
5	AC Power Cable	-	-	-	Provided by Customer

2.4 Test Setup Diagram



Test Setup Diagram - Radiated Test


Item	Connection	Shielded	Length(m)	Remark
1	AC Power Cable	No	0.5	-
2	LAN Cable	No	10	-
3	Antenna Cable	No	2	-
4	Antenna Cable	No	2	-
5	Antenna Cable	No	2	-
6	Antenna Cable	No	2	-

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

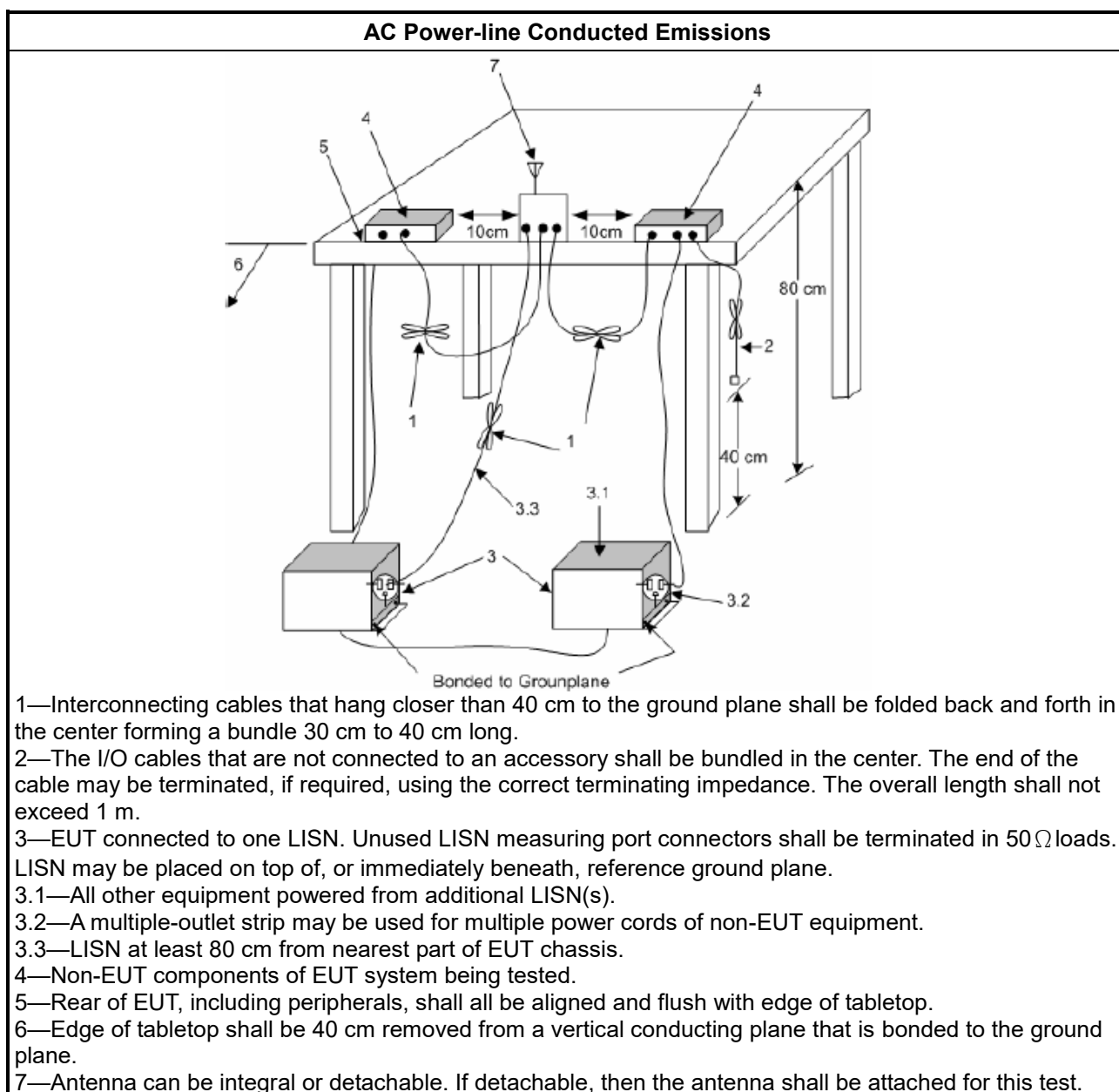
Test Method
☒ Refer as ANSI C63.10-2013, clause 6.2 for AC power-line conducted emissions.

3.1.4 Measurement Results Calculation

The measured Level is calculated using:

Corrected Reading: Raw(Read Level) + LISN(LISN Factor) + CL(Cable Loss) + AT(Attenuator).

3.1.5 Test Setup



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 5.15-5.25 GHz band, N/A
☒	For the 5.25-5.35 GHz band, N/A
☒	For the 5.47-5.725 GHz band, N/A
☒	For the 5.725-5.85 GHz band, 6 dB emission bandwidth $\geq$ 500kHz.

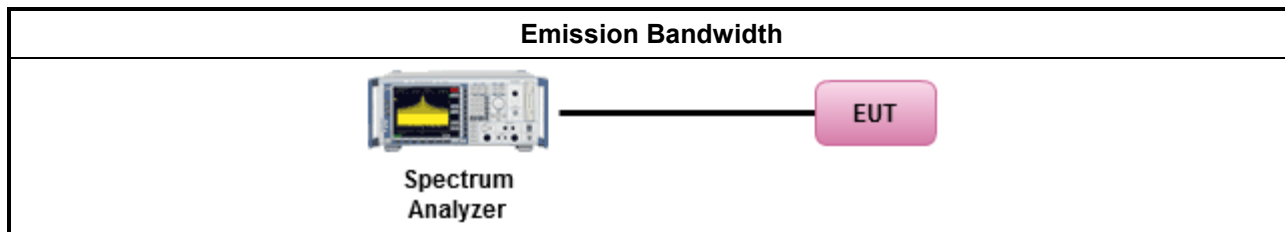
3.2.2 Measuring Instruments

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:	
☒	Refer as KDB 789033, clause C for EBW and clause D for OBW measurement.
☐	Refer as ANSI C63.10, clause 6.9.3 for occupied bandwidth testing.
☐	Refer as IC RSS-Gen, clause 6.7 for bandwidth testing.

3.2.4 Test Setup



3.2.5 Test Result of Emission Bandwidth

Refer as Appendix B

3.3 Maximum Conducted Output Power

3.3.1 Maximum Conducted Output Power Limit

Maximum Conducted Output Power Limit	
UNII Devices	
☒ For the 5.15-5.25 GHz band:	
	- Outdoor AP: the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W. If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)$. e.i.r.p. at any elevation angle above 30 degrees ≤ 125mW [21dBm] - Indoor AP: the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W. If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)$ - Point-to-point AP: the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W. If $G_{TX} > 23$ dBi, then $P_{Out} = 30 - (G_{TX} - 23)$. - Mobile or Portable Client: the maximum conducted output power (P_{Out}) shall not exceed the lesser of 250 mW. If $G_{TX} > 6$ dBi, then $P_{Out} = 24 - (G_{TX} - 6)$.
☒ For the 5.25-5.35 GHz band, the maximum conducted output power (P_{Out}) shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, where B is the 26 dB emission bandwidth in MHz. If $G_{TX} > 6$ dBi, then $P_{Out} = 24 - (G_{TX} - 6)$.	
☒ For the 5.47-5.725 GHz band, the maximum conducted output power (P_{Out}) shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, where B is the 26 dB emission bandwidth in MHz. If $G_{TX} > 6$ dBi, then $P_{Out} = 24 - (G_{TX} - 6)$.	
☒ For the 5.725-5.85 GHz band:	
	- Point-to-multipoint systems (P2M): the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W. If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)$. - Point-to-point systems (P2P): the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W.
P_{Out} = maximum conducted output power in dBm, G_{TX} = the maximum transmitting antenna directional gain in dBi.	

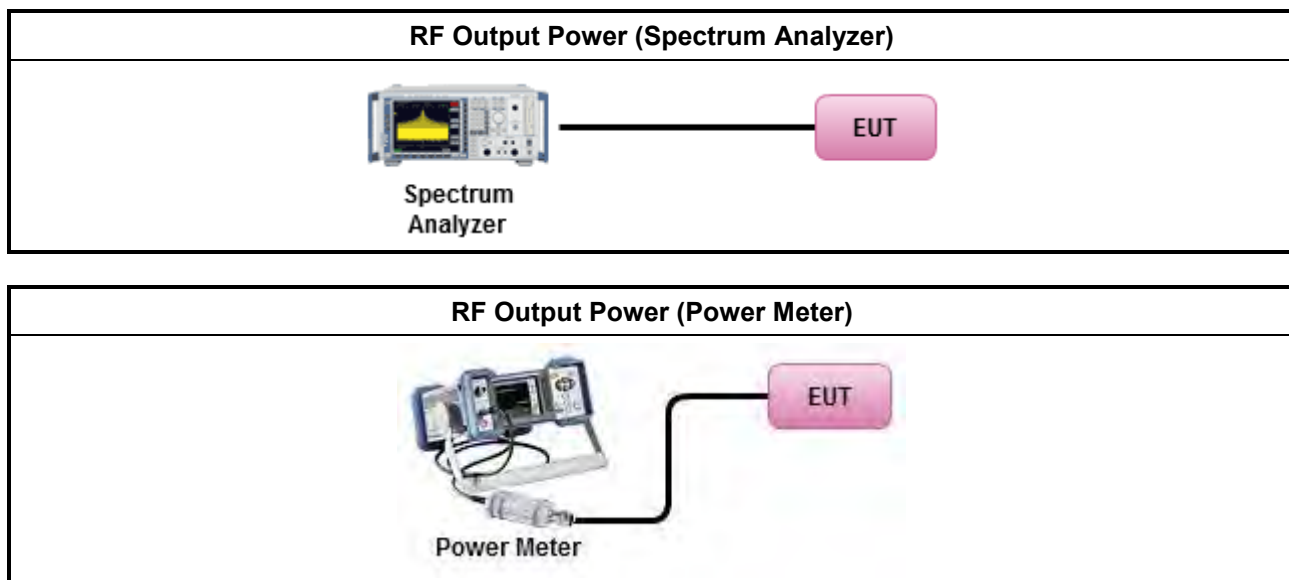
3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

Test Method	
Maximum Conducted Output Power	
	Duty cycle $\geq 98\%$
☒	Refer as KDB 789033, clause E Method SA-2 (spectral trace averaging).
	Duty cycle $< 98\%$
☒	Refer as 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 KDB 789033, clause E Method PM (using an RF average power meter).
For conducted measurement.	
	If the EUT supports multiple transmit chains using options given below: Refer as 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]) $EIRP_{total} = P_{total} + DG$

3.3.4 Test Setup



3.3.5 Test Result of Maximum Conducted Output Power

Refer as Appendix C

3.4 Peak Power Spectral Density

3.4.1 Peak Power Spectral Density Limit

Peak Power Spectral Density Limit	
UNII Devices	
☒ For the 5.15-5.25 GHz band:	
	Outdoor AP: the peak power spectral density (PPSD) shall not exceed the lesser of 17dBm/MHz. If $G_{TX} > 6$ dBi, then $P_{Out} = 17 - (G_{TX} - 6)$.
	Indoor AP: the peak power spectral density (PPSD) shall not exceed the lesser of 17dBm/MHz. If $G_{TX} > 6$ dBi, then $P_{Out} = 17 - (G_{TX} - 6)$.
	Point-to-point AP: the peak power spectral density (PPSD) shall not exceed the lesser of 17dBm/MHz. If $G_{TX} > 23$ dBi, then $P_{Out} = 17 - (G_{TX} - 23)$.
	Mobile or Portable Client: the peak power spectral density (PPSD) ≤ 11 dBm/MHz. If $G_{TX} > 6$ dBi, then $PPSD = 11 - (G_{TX} - 6)$.
☒ For the 5.25-5.35 GHz band, the peak power spectral density (PPSD) ≤ 11 dBm/MHz. If $G_{TX} > 6$ dBi, then $PPSD = 11 - (G_{TX} - 6)$.	
☒ For the 5.47-5.725 GHz band, the peak power spectral density (PPSD) ≤ 11 dBm/MHz. If $G_{TX} > 6$ dBi, then $PPSD = 11 - (G_{TX} - 6)$.	
☒ For the 5.725-5.85 GHz band:	
	Point-to-multipoint systems (P2M): the peak power spectral density (PPSD) ≤ 30 dBm/500kHz. If $G_{TX} > 6$ dBi, then $PPSD = 30 - (G_{TX} - 6)$.
	Point-to-point systems (P2P): the peak power spectral density (PPSD) ≤ 30 dBm/500kHz.
PPSD = peak power spectral density that the same method as used to determine the conducted output power shall be used to determine the power spectral density. And power spectral density in dBm/MHz G_{TX} = the maximum transmitting antenna directional gain in dBi.	

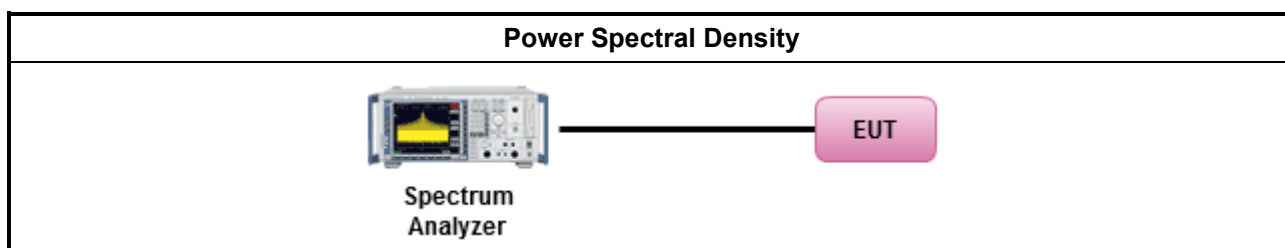
3.4.2 Measuring Instruments

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

3.4.3 Test Procedures

Test Method	
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 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%	
☒ Refer as KDB 789033, clause E Method SA-2 (spectral trace averaging).	
Duty cycle < 98%	
☒ Refer as 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:	
☐ Measure and sum the spectra across the outputs. Refer as 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.	
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]) $EIRP_{total} = PPSD_{total} + DG$	

3.4.4 Test Setup



3.4.5 Test Result of Peak Power Spectral Density

Refer as Appendix D

3.5 Unwanted Emissions

3.5.1 Transmitter Radiated 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.

Un-restricted band emissions above 1GHz Limit	
Operating Band	Limit
5.15 - 5.25 GHz	e.i.r.p. -27 dBm [68.2 dBuV/m@3m]
5.25 - 5.35 GHz	e.i.r.p. -27 dBm [68.2 dBuV/m@3m]
5.47 - 5.725 GHz	e.i.r.p. -27 dBm [68.2 dBuV/m@3m]
5.725 - 5.85 GHz	5.650-5700 GHz: e.i.r.p. -27 ~ 10 dBm [68.2 ~ 105.2 dBuV/m@3m] 5.700-5720 GHz: e.i.r.p. 10 ~ 15.6 dBm [105.2 ~ 110.8 dBuV/m@3m] 5.720-5725 GHz: e.i.r.p. 15.6 ~ 27 dBm [110.8 ~ 122.2 dBuV/m@3m] 5.850-5.855 GHz: e.i.r.p. 27 ~ 15.6 dBm [122.2 ~ 110.8 dBuV/m@3m] 5.855-5.875 GHz: e.i.r.p. 15.6 ~ 10 dBm [110.8 ~ 105.2 dBuV/m@3m] 5.875-5.925 GHz: e.i.r.p. 10 ~ -27 dBm [105.2 ~ 68.2dBuV/m@3m] Other un-restricted band: e.i.r.p. -27 dBm [68.2 dBuV/m@3m]

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

3.5.2 Measuring Instruments

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

3.5.3 Test Procedures

Test Method	
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 KDB 789033, clause G)2) for unwanted emissions into non-restricted bands.
	Refer as KDB 789033, clause G)1) for unwanted emissions into restricted bands.
☒	Refer as KDB 789033, G)6) Method VB (ANSI C63.10, clause 4.1.4.2.3), Reduced VBW.
☒	Refer as KDB 789033, clause G)5) (ANSI C63.10, clause 4.1.4.2.2), measurement procedure peak limit.
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.	

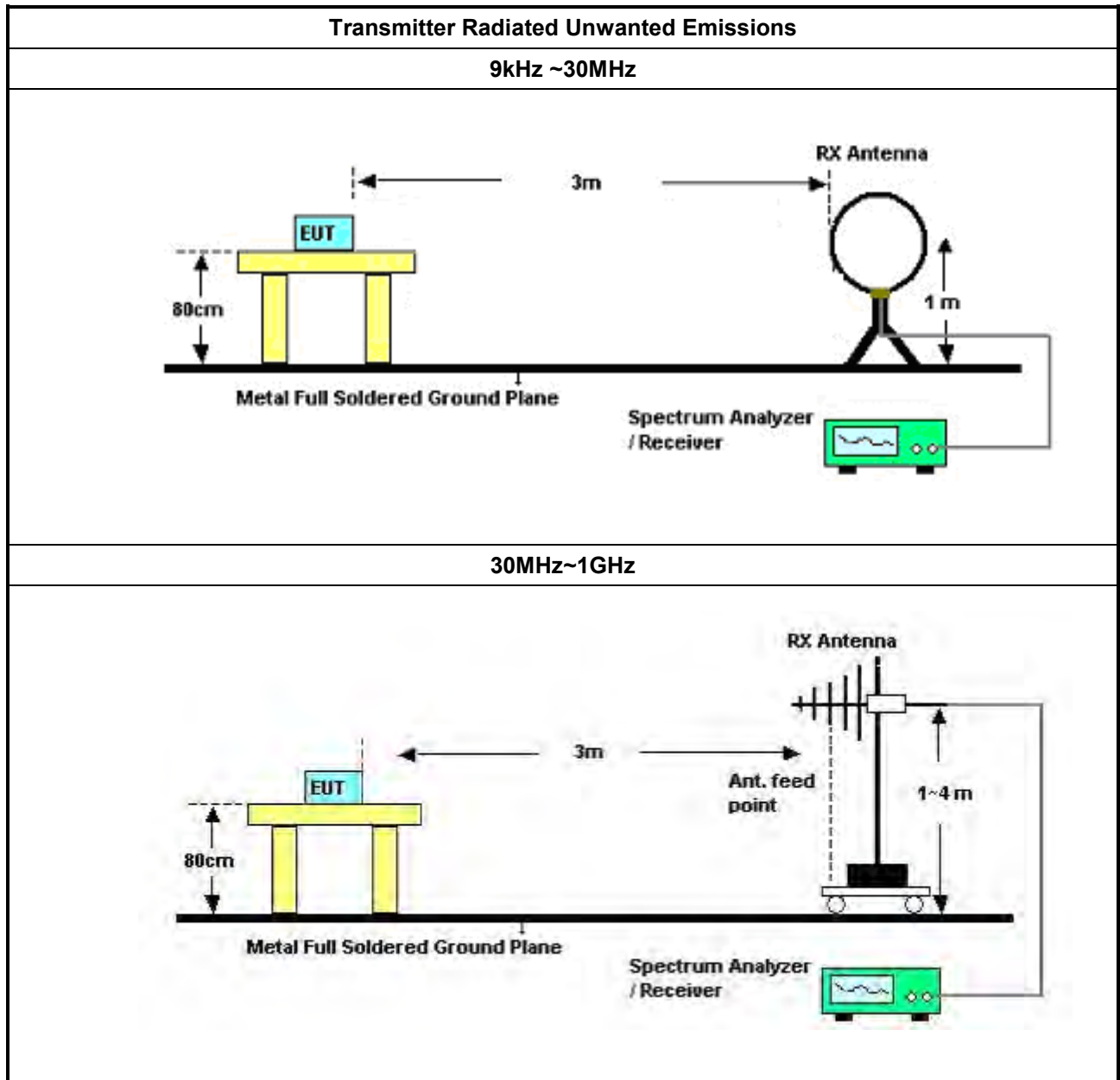
Use the following spectrum analyzer settings:	
	Set RBW=100 kHz for $f < 1$ GHz; VBW=3 * RBW; Sweep = auto; Detector function = peak; Trace = max hold.
	Set RBW = 1 MHz, VBW= 3MHz for $f \geq 1$ GHz for peak measurement. For average measurement, refer as 1.1.4.
KDB 414788 Open-Field Test Sites and Chamber Correlation Justification.	
	Based on FCC 15.31(f)(2): measurements may be performed at a distance closer than that specified in regulations; however, an attempt should be made to avoid making measurements in the near field.
	Open-field site and chamber correlation testing had been performed and chamber measured test result is the worst case test result.

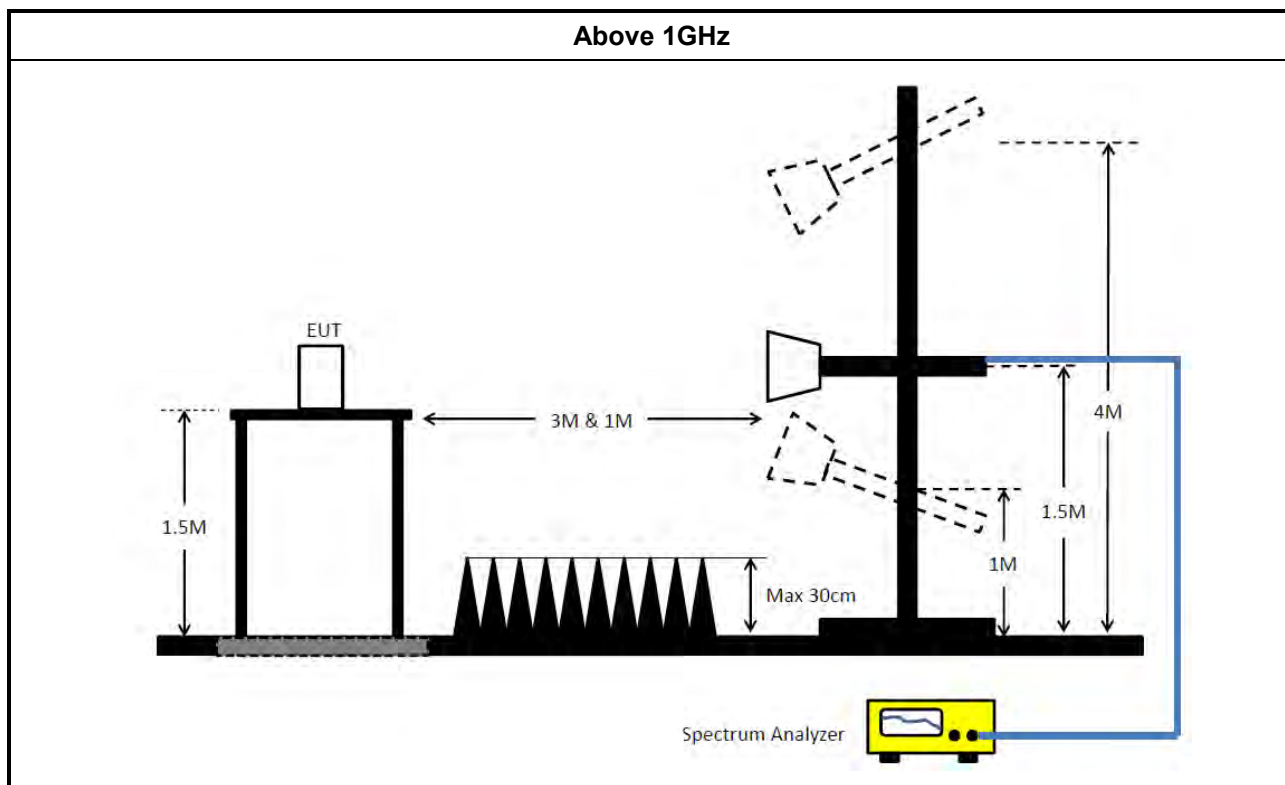
3.5.4 Measurement Results Calculation

The measured Level is calculated using:

Corrected Reading: Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamplifier Factor)

3.5.5 Test Setup





3.5.6 Transmitter Unwanted Emissions (Below 30MHz)

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

3.5.7 Test Result of Transmitter Unwanted Emissions

Refer as Appendix E

4 Test Equipment and Calibration Data

Instrument for AC Conduction

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
EMI Test Receiver	R&S	ESR3	102051	9kHz ~ 3.6GHz	29/May/2020	28/May/2021
LISN	R&S	ENV216	101295	9kHz ~ 30MHz	11/Nov/2020	10/Nov/2021
RF Cable 5m	TITAN	TITAN	CO04-cable-01	0.1MHz~200MHz	03/Mar/2021	02/Mar/2022
Impuls Begrenzer Pulse Limiter	SCHWARZBECK	VTSD 9561-F	9561-F041	9kHz ~ 30MHz	21/Sep/2020	20/Sep/2021

Instrument for Conducted Test

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
Signal Analyzer	R&S	FSV 40	101029	10Hz~40GHz	19/Oct/2020	18/Oct/2021
SMB100A Signal Generator	R&S	SMB100A03	181147	100kHz~40GHz	20/Oct/2020	19/Oct/2021
Pulse Sensor	Anritsu	MA2411B	1027452	300MHz~40GHz	25/Mar/2021	24/Mar/2022
Power Meter	Anritsu	ML2495A	1124009	300MHz~40GHz	25/Mar/2021	24/Mar/2022

Instrument for Radiated Test for above 1 GHz

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH02-HY	1GHz~18GHz 3m	02/Aug/2020	01/Aug/2021
Signal Analyzer	R&S	FSP40	100593	9kHz~40GHz	12/Mar/2021	11/Mar/2022
Microwave Preamplifier	Agilent	8449B	3008A02373	1GHz~18GHz	23/Oct/2020	22/Oct/2021
Double Ridged Guide Horn Antenna	SCHWARZBEC	BBHA 9120 D	BBHA 9120 D 01543	1GHz~18GHz	09/Jun/2020	08/Jun/2021
RF Cable-R03m	HUBER+SUHNER	SUCOFLEX10 4	805193/4+8051 92/4	1GHz~40GHz	08/Apr/2020	07/Apr/2021
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA 9170221	15GHz~40GHz	11/Mar/2021	10/Mar/2022
Microwave Premplifier	EMC INSTRUMENTS	EM18G40G	060604	18GHz~40GHz	09/Mar/2021	08/Mar/2022



Conducted Emissions at Powerline_Radio 2

Appendix A

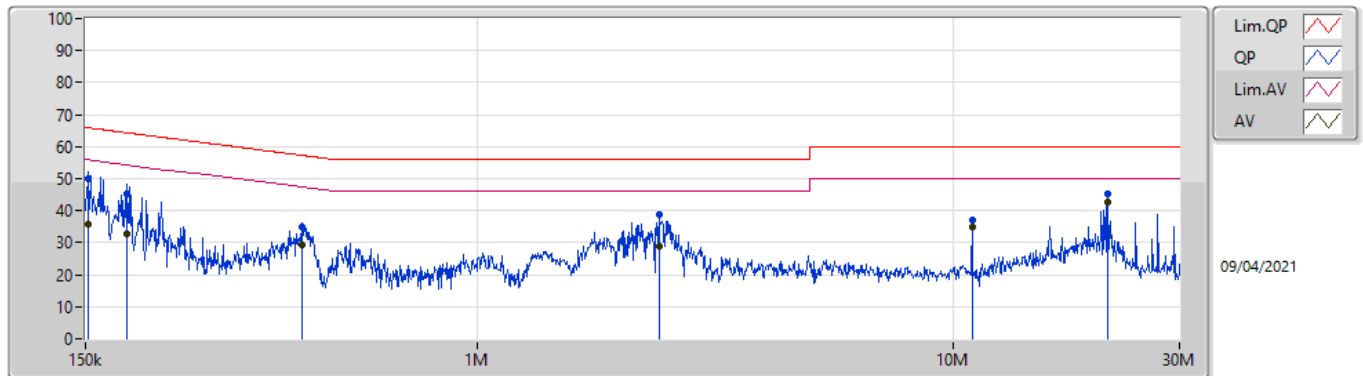
Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	AV	21.263M	42.65	50.00	-7.35	Line

Result

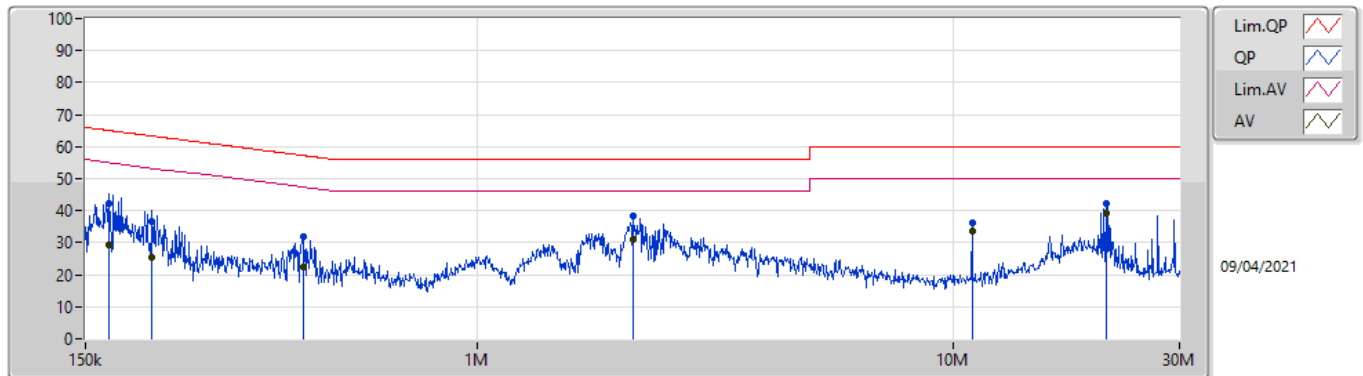
Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition	Comments
Mode 1	Pass	QP	152.414k	49.97	65.87	-15.90	Line	-
Mode 1	Pass	AV	152.414k	35.81	55.87	-20.06	Line	-
Mode 1	Pass	QP	183.137k	45.47	64.34	-18.87	Line	-
Mode 1	Pass	AV	183.137k	32.74	54.34	-21.60	Line	-
Mode 1	Pass	QP	426.898k	34.78	57.32	-22.54	Line	-
Mode 1	Pass	AV	426.898k	29.15	47.32	-18.17	Line	-
Mode 1	Pass	QP	2.424M	38.77	56.00	-17.23	Line	-
Mode 1	Pass	AV	2.424M	28.73	46.00	-17.27	Line	-
Mode 1	Pass	QP	11.004M	37.27	60.00	-22.73	Line	-
Mode 1	Pass	AV	11.004M	35.12	50.00	-14.88	Line	-
Mode 1	Pass	QP	21.263M	45.06	60.00	-14.94	Line	-
Mode 1	Pass	AV	21.263M	42.65	50.00	-7.35	Line	-
Mode 1	Pass	QP	168.41k	42.34	65.04	-22.70	Neutral	-
Mode 1	Pass	AV	168.41k	29.30	55.04	-25.74	Neutral	-
Mode 1	Pass	QP	207.263k	36.70	63.30	-26.60	Neutral	-
Mode 1	Pass	AV	207.263k	25.37	53.30	-27.93	Neutral	-
Mode 1	Pass	QP	430.32k	31.70	57.24	-25.54	Neutral	-
Mode 1	Pass	AV	430.32k	22.32	47.24	-24.92	Neutral	-
Mode 1	Pass	QP	2.125M	38.26	56.00	-17.74	Neutral	-
Mode 1	Pass	AV	2.125M	31.19	46.00	-14.81	Neutral	-
Mode 1	Pass	QP	11.004M	36.29	60.00	-23.71	Neutral	-
Mode 1	Pass	AV	11.004M	33.69	50.00	-16.31	Neutral	-
Mode 1	Pass	QP	21.01M	42.28	60.00	-17.72	Neutral	-
Mode 1	Pass	AV	21.01M	39.20	50.00	-10.80	Neutral	-

Conducted Emissions at Powerline_Mode 1



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	152.414k	49.97	65.87	-15.90	19.63	Line	-	30.34	9.69	0.04	9.90			
AV	152.414k	35.81	55.87	-20.06	19.63	Line	-	16.18	9.69	0.04	9.90			
QP	183.137k	45.47	64.34	-18.87	19.62	Line	-	25.85	9.68	0.04	9.90			
AV	183.137k	32.74	54.34	-21.60	19.62	Line	-	13.12	9.68	0.04	9.90			
QP	426.898k	34.78	57.32	-22.54	19.62	Line	-	15.16	9.67	0.06	9.89			
AV	426.898k	29.15	47.32	-18.17	19.62	Line	-	9.53	9.67	0.06	9.89			
QP	2.424M	38.77	56.00	-17.23	19.62	Line	-	19.15	9.68	0.11	9.83			
AV	2.424M	28.73	46.00	-17.27	19.62	Line	-	9.11	9.68	0.11	9.83			
QP	11.004M	37.27	60.00	-22.73	19.82	Line	-	17.45	9.71	0.21	9.90			
AV	11.004M	35.12	50.00	-14.88	19.82	Line	-	15.30	9.71	0.21	9.90			
QP	21.263M	45.06	60.00	-14.94	19.86	Line	-	25.20	9.65	0.31	9.90			
AV	21.263M	42.65	50.00	-7.35	19.86	Line	-	22.79	9.65	0.31	9.90			

Conducted Emissions at Powerline_Mode 1



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	168.41k	42.34	65.04	-22.70	19.63	Neutral	-	22.71	9.69	0.04	9.90			
AV	168.41k	29.30	55.04	-25.74	19.63	Neutral	-	9.67	9.69	0.04	9.90			
QP	207.263k	36.70	63.30	-26.60	19.62	Neutral	-	17.08	9.68	0.04	9.90			
AV	207.263k	25.37	53.30	-27.93	19.62	Neutral	-	5.75	9.68	0.04	9.90			
QP	430.32k	31.70	57.24	-25.54	19.62	Neutral	-	12.08	9.67	0.06	9.89			
AV	430.32k	22.32	47.24	-24.92	19.62	Neutral	-	2.70	9.67	0.06	9.89			
QP	2.125M	38.26	56.00	-17.74	19.59	Neutral	-	18.67	9.68	0.10	9.81			
AV	2.125M	31.19	46.00	-14.81	19.59	Neutral	-	11.60	9.68	0.10	9.81			
QP	11.004M	36.29	60.00	-23.71	19.84	Neutral	-	16.45	9.73	0.21	9.90			
AV	11.004M	33.69	50.00	-16.31	19.84	Neutral	-	13.85	9.73	0.21	9.90			
QP	21.01M	42.28	60.00	-17.72	19.94	Neutral	-	22.34	9.74	0.30	9.90			
AV	21.01M	39.20	50.00	-10.80	19.94	Neutral	-	19.26	9.74	0.30	9.90			

Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.15-5.25GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	21.51M	16.792M	16M8D1D	21.51M	16.672M
802.11n HT20_Nss1,(MCS0)_1TX	21.78M	17.931M	17M9D1D	21.66M	17.841M
802.11n HT40_Nss1,(MCS0)_1TX	40.14M	36.462M	36M5D1D	40.14M	36.402M
802.11ac VHT20_Nss1,(MCS0)_1TX	21.75M	17.931M	17M9D1D	21.63M	17.871M
802.11ac VHT40_Nss1,(MCS0)_1TX	40.32M	36.522M	36M5D1D	40.26M	36.402M
802.11ac VHT80_Nss1,(MCS0)_1TX	81.96M	76.042M	76M0D1D	81.96M	76.042M
802.11ac VHT160_Nss1,(MCS0)_1TX	81.84M	76.842M	76M8D1D	81.84M	76.842M
802.11ax HEW20_Nss1,(MCS0)_1TX	21.69M	19.01M	19M0D1D	21.63M	18.981M
802.11ax HEW40_Nss1,(MCS0)_1TX	40.14M	37.721M	37M7D1D	40.08M	37.661M
802.11ax HEW80_Nss1,(MCS0)_1TX	81.96M	77.601M	77M6D1D	81.96M	77.601M
802.11ax HEW160_Nss1,(MCS0)_1TX	81.76M	78.201M	78M2D1D	81.76M	78.201M
5.25-5.35GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	21.54M	16.762M	16M8D1D	21.45M	16.732M
802.11n HT20_Nss1,(MCS0)_1TX	21.84M	17.961M	18M0D1D	21.72M	17.841M
802.11n HT40_Nss1,(MCS0)_1TX	40.38M	36.462M	36M5D1D	40.26M	36.462M
802.11ac VHT20_Nss1,(MCS0)_1TX	21.75M	17.931M	17M9D1D	21.72M	17.901M
802.11ac VHT40_Nss1,(MCS0)_1TX	40.32M	36.582M	36M6D1D	40.32M	36.522M
802.11ac VHT80_Nss1,(MCS0)_1TX	81.72M	76.282M	76M3D1D	81.72M	76.282M
802.11ac VHT160_Nss1,(MCS0)_1TX	82.16M	77.001M	77M0D1D	82.16M	77.001M
802.11ax HEW20_Nss1,(MCS0)_1TX	21.75M	19.04M	19M0D1D	21.6M	19.01M
802.11ax HEW40_Nss1,(MCS0)_1TX	40.14M	37.781M	37M8D1D	40.02M	37.721M
802.11ax HEW80_Nss1,(MCS0)_1TX	82.08M	77.241M	77M2D1D	82.08M	77.241M
802.11ax HEW160_Nss1,(MCS0)_1TX	82.56M	78.121M	78M1D1D	82.56M	78.121M
5.47-5.725GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	21.48M	16.822M	16M8D1D	15.525M	13.418M
802.11n HT20_Nss1,(MCS0)_1TX	21.78M	17.991M	18M0D1D	15.84M	13.988M
802.11n HT40_Nss1,(MCS0)_1TX	40.2M	36.462M	36M5D1D	35.105M	33.163M
802.11ac VHT20_Nss1,(MCS0)_1TX	21.81M	17.961M	18M0D1D	15.795M	14.018M
802.11ac VHT40_Nss1,(MCS0)_1TX	40.38M	36.582M	36M6D1D	35.175M	33.058M
802.11ac VHT80_Nss1,(MCS0)_1TX	81.96M	76.162M	76M2D1D	76.125M	72.789M
802.11ac VHT160_Nss1,(MCS0)_1TX	164.16M	154.723M	155MD1D	164.16M	154.723M
802.11ax HEW20_Nss1,(MCS0)_1TX	21.69M	19.04M	19M0D1D	15.735M	14.513M
802.11ax HEW40_Nss1,(MCS0)_1TX	40.08M	37.781M	37M8D1D	34.93M	33.758M
802.11ax HEW80_Nss1,(MCS0)_1TX	82.2M	77.481M	77M5D1D	75.825M	73.463M
802.11ax HEW160_Nss1,(MCS0)_1TX	164.4M	155.442M	155MD1D	164.4M	155.442M
5.725-5.85GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	16.38M	16.762M	16M8D1D	3.14M	4.058M
802.11n HT20_Nss1,(MCS0)_1TX	17.58M	17.961M	18M0D1D	3.76M	4.338M
802.11n HT40_Nss1,(MCS0)_1TX	36.3M	36.522M	36M5D1D	3.12M	3.618M
802.11ac VHT20_Nss1,(MCS0)_1TX	17.58M	17.901M	17M9D1D	3.76M	4.338M
802.11ac VHT40_Nss1,(MCS0)_1TX	36.3M	36.582M	36M6D1D	3.14M	3.518M
802.11ac VHT80_Nss1,(MCS0)_1TX	75.72M	76.042M	76M0D1D	3.12M	3.898M
802.11ax HEW20_Nss1,(MCS0)_1TX	19.02M	19.07M	19M1D1D	4.44M	4.578M
802.11ax HEW40_Nss1,(MCS0)_1TX	37.56M	37.721M	37M7D1D	3.8M	4.038M
802.11ax HEW80_Nss1,(MCS0)_1TX	77.04M	77.601M	77M6D1D	3.82M	4.178M

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

Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
802.11a_Nss1,(6Mbps)_1TX	-	-	-	-
5180MHz	Pass	Inf	21.51M	16.672M
5200MHz	Pass	Inf	21.51M	16.792M
5240MHz	Pass	Inf	21.51M	16.702M
5260MHz	Pass	Inf	21.54M	16.762M
5300MHz	Pass	Inf	21.45M	16.732M
5320MHz	Pass	Inf	21.48M	16.732M
5500MHz	Pass	Inf	21.33M	16.822M
5580MHz	Pass	Inf	21.48M	16.792M
5700MHz	Pass	Inf	21.42M	16.762M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	15.525M	13.418M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	3.14M	4.058M
5745MHz	Pass	500k	16.32M	16.702M
5785MHz	Pass	500k	16.38M	16.762M
5825MHz	Pass	500k	16.35M	16.702M
802.11n HT20_Nss1,(MCS0)_1TX	-	-	-	-
5180MHz	Pass	Inf	21.66M	17.931M
5200MHz	Pass	Inf	21.78M	17.901M
5240MHz	Pass	Inf	21.72M	17.841M
5260MHz	Pass	Inf	21.72M	17.961M
5300MHz	Pass	Inf	21.84M	17.841M
5320MHz	Pass	Inf	21.72M	17.901M
5500MHz	Pass	Inf	21.75M	17.991M
5580MHz	Pass	Inf	21.78M	17.901M
5700MHz	Pass	Inf	21.69M	17.901M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	15.84M	13.988M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	3.76M	4.338M
5745MHz	Pass	500k	17.58M	17.931M
5785MHz	Pass	500k	17.58M	17.961M
5825MHz	Pass	500k	17.58M	17.931M
802.11n HT40_Nss1,(MCS0)_1TX	-	-	-	-
5190MHz	Pass	Inf	40.14M	36.402M
5230MHz	Pass	Inf	40.14M	36.462M
5270MHz	Pass	Inf	40.38M	36.462M
5310MHz	Pass	Inf	40.26M	36.462M
5510MHz	Pass	Inf	40.08M	36.462M
5550MHz	Pass	Inf	40.2M	36.462M
5670MHz	Pass	Inf	40.2M	36.462M
5710MHz Straddle 5.47-5.725GHz	Pass	Inf	35.105M	33.163M
5710MHz Straddle 5.725-5.85GHz	Pass	500k	3.12M	3.618M
5755MHz	Pass	500k	36.3M	36.462M
5795MHz	Pass	500k	36.3M	36.522M
802.11ac VHT20_Nss1,(MCS0)_1TX	-	-	-	-
5180MHz	Pass	Inf	21.72M	17.871M
5200MHz	Pass	Inf	21.75M	17.931M
5240MHz	Pass	Inf	21.63M	17.931M
5260MHz	Pass	Inf	21.75M	17.901M
5300MHz	Pass	Inf	21.72M	17.931M
5320MHz	Pass	Inf	21.75M	17.901M
5500MHz	Pass	Inf	21.81M	17.931M
5580MHz	Pass	Inf	21.75M	17.901M
5700MHz	Pass	Inf	21.75M	17.961M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	15.795M	14.018M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	3.76M	4.338M
5745MHz	Pass	500k	17.58M	17.871M



Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
5785MHz	Pass	500k	17.58M	17.901M
5825MHz	Pass	500k	17.58M	17.841M
802.11ac VHT40_Nss1,(MCS0)_1TX	-	-	-	-
5190MHz	Pass	Inf	40.32M	36.402M
5230MHz	Pass	Inf	40.26M	36.522M
5270MHz	Pass	Inf	40.32M	36.522M
5310MHz	Pass	Inf	40.32M	36.582M
5510MHz	Pass	Inf	40.32M	36.582M
5550MHz	Pass	Inf	40.38M	36.402M
5670MHz	Pass	Inf	40.2M	36.462M
5710MHz Straddle 5.47-5.725GHz	Pass	Inf	35.175M	33.058M
5710MHz Straddle 5.725-5.85GHz	Pass	500k	3.14M	3.518M
5755MHz	Pass	500k	36.3M	36.522M
5795MHz	Pass	500k	36.3M	36.582M
802.11ac VHT80_Nss1,(MCS0)_1TX	-	-	-	-
5210MHz	Pass	Inf	81.96M	76.042M
5290MHz	Pass	Inf	81.72M	76.282M
5530MHz	Pass	Inf	81.72M	76.162M
5610MHz	Pass	Inf	81.96M	76.042M
5690MHz Straddle 5.47-5.725GHz	Pass	Inf	76.125M	72.789M
5690MHz Straddle 5.725-5.85GHz	Pass	500k	3.12M	3.898M
5775MHz	Pass	500k	75.72M	76.042M
802.11ac VHT160_Nss1,(MCS0)_1TX	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	Inf	81.84M	76.842M
5250MHz Straddle 5.25-5.35GHz	Pass	Inf	82.16M	77.001M
5570MHz	Pass	Inf	164.16M	154.723M
802.11ax HEW20_Nss1,(MCS0)_1TX	-	-	-	-
5180MHz	Pass	Inf	21.69M	18.981M
5200MHz	Pass	Inf	21.66M	19.01M
5240MHz	Pass	Inf	21.63M	19.01M
5260MHz	Pass	Inf	21.6M	19.04M
5300MHz	Pass	Inf	21.63M	19.04M
5320MHz	Pass	Inf	21.75M	19.01M
5500MHz	Pass	Inf	21.69M	19.01M
5580MHz	Pass	Inf	21.63M	19.01M
5700MHz	Pass	Inf	21.63M	19.04M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	15.735M	14.513M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	4.44M	4.578M
5745MHz	Pass	500k	18.96M	18.981M
5785MHz	Pass	500k	19.02M	19.07M
5825MHz	Pass	500k	18.99M	19.01M
802.11ax HEW40_Nss1,(MCS0)_1TX	-	-	-	-
5190MHz	Pass	Inf	40.08M	37.721M
5230MHz	Pass	Inf	40.14M	37.661M
5270MHz	Pass	Inf	40.02M	37.721M
5310MHz	Pass	Inf	40.14M	37.781M
5510MHz	Pass	Inf	40.08M	37.661M
5550MHz	Pass	Inf	39.96M	37.781M
5670MHz	Pass	Inf	39.96M	37.781M
5710MHz Straddle 5.47-5.725GHz	Pass	Inf	34.93M	33.758M
5710MHz Straddle 5.725-5.85GHz	Pass	500k	3.8M	4.038M
5755MHz	Pass	500k	37.38M	37.661M
5795MHz	Pass	500k	37.56M	37.721M
802.11ax HEW80_Nss1,(MCS0)_1TX	-	-	-	-
5210MHz	Pass	Inf	81.96M	77.601M
5290MHz	Pass	Inf	82.08M	77.241M

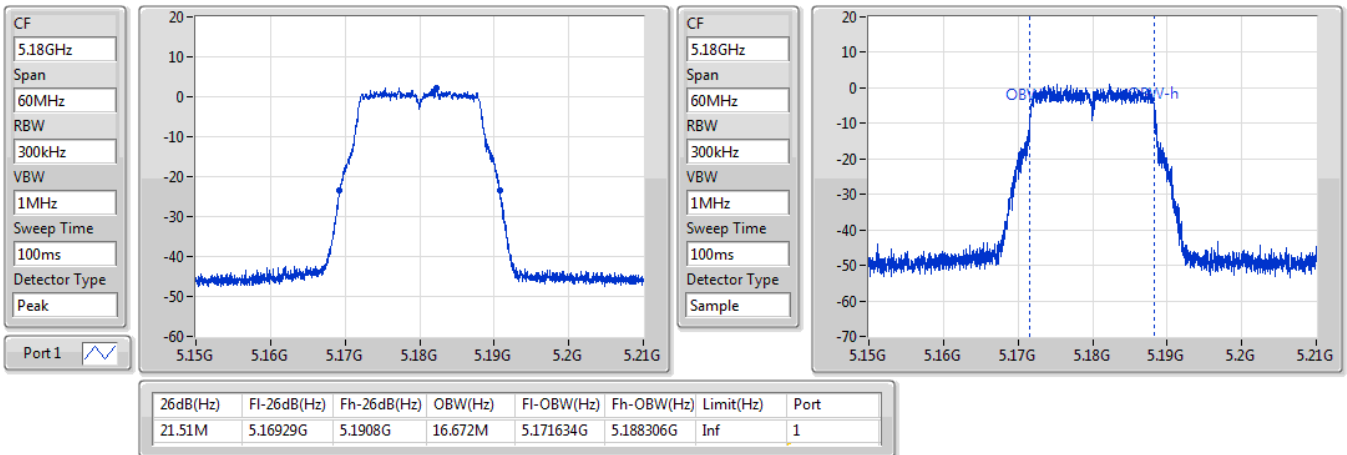


Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
5530MHz	Pass	Inf	82.2M	77.481M
5610MHz	Pass	Inf	82.08M	77.481M
5690MHz Straddle 5.47-5.725GHz	Pass	Inf	75.825M	73.463M
5690MHz Straddle 5.725-5.85GHz	Pass	500k	3.82M	4.178M
5775MHz	Pass	500k	77.04M	77.601M
802.11ax HEW160_Nss1,(MCS0)_1TX	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	Inf	81.76M	78.201M
5250MHz Straddle 5.25-5.35GHz	Pass	Inf	82.56M	78.121M
5570MHz	Pass	Inf	164.4M	155.442M

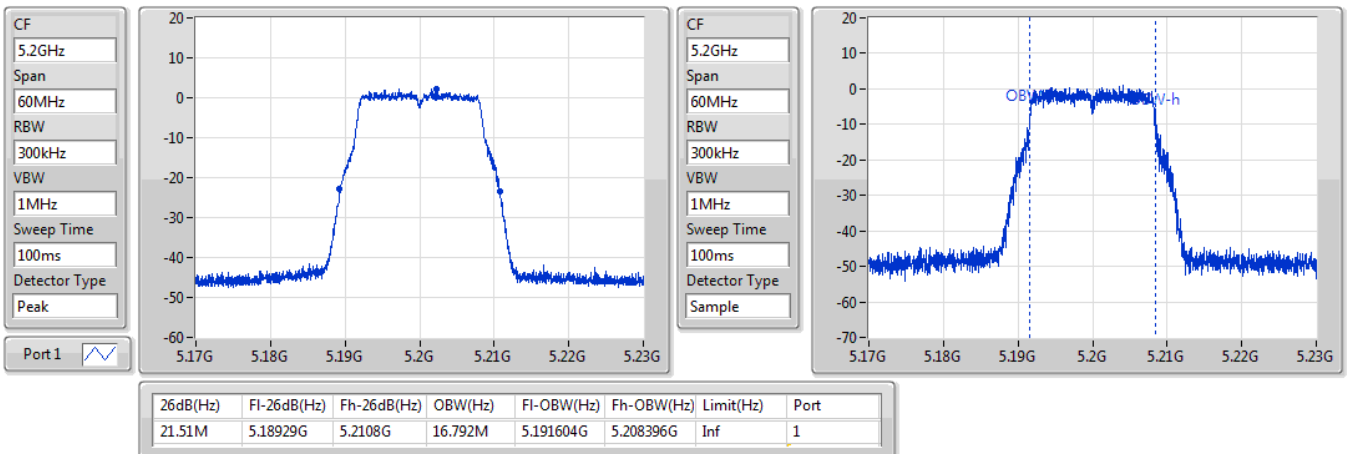
Port X-N dB = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band
Port X-OBW = Port X 99% occupied bandwidth

802.11a_Nss1,(6Mbps)_1TX
EBW
5180MHz

06/04/2021

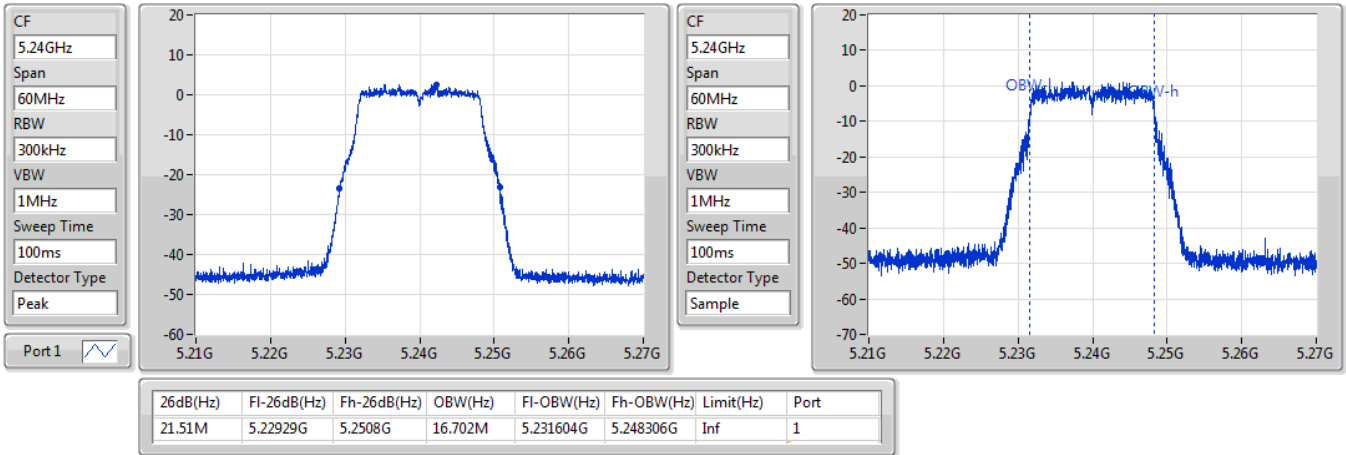

802.11a_Nss1,(6Mbps)_1TX
EBW
5200MHz

06/04/2021

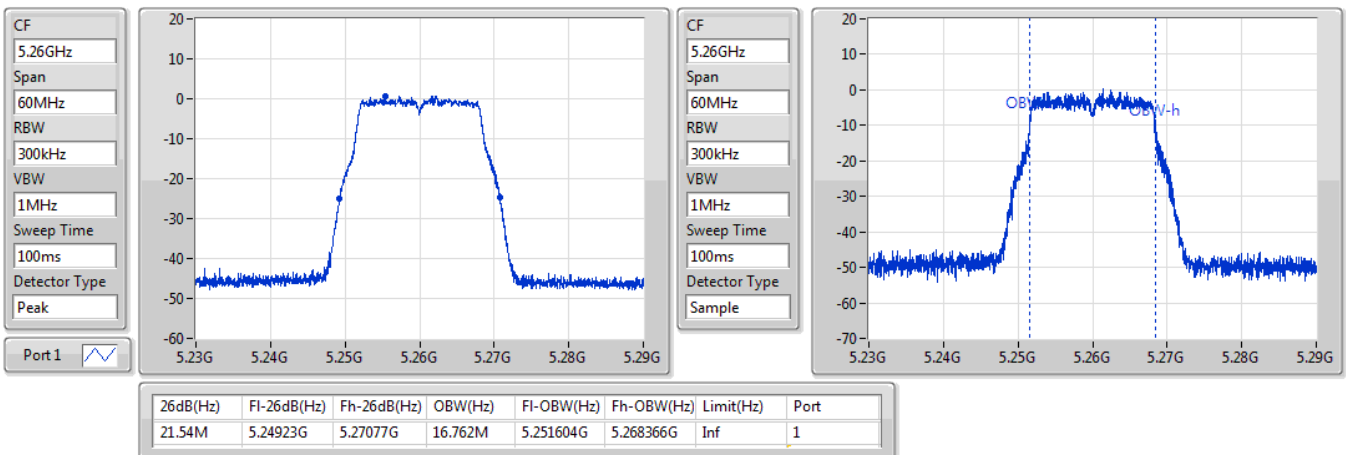


802.11a_Nss1,(6Mbps)_1TX
EBW
5240MHz

06/04/2021

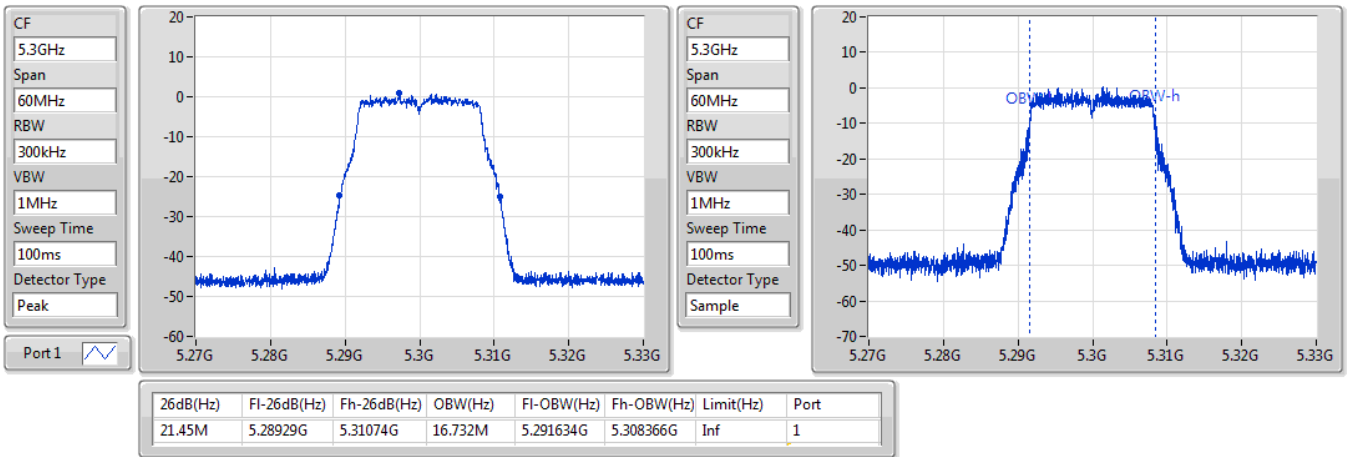

802.11a_Nss1,(6Mbps)_1TX
EBW
5260MHz

06/04/2021

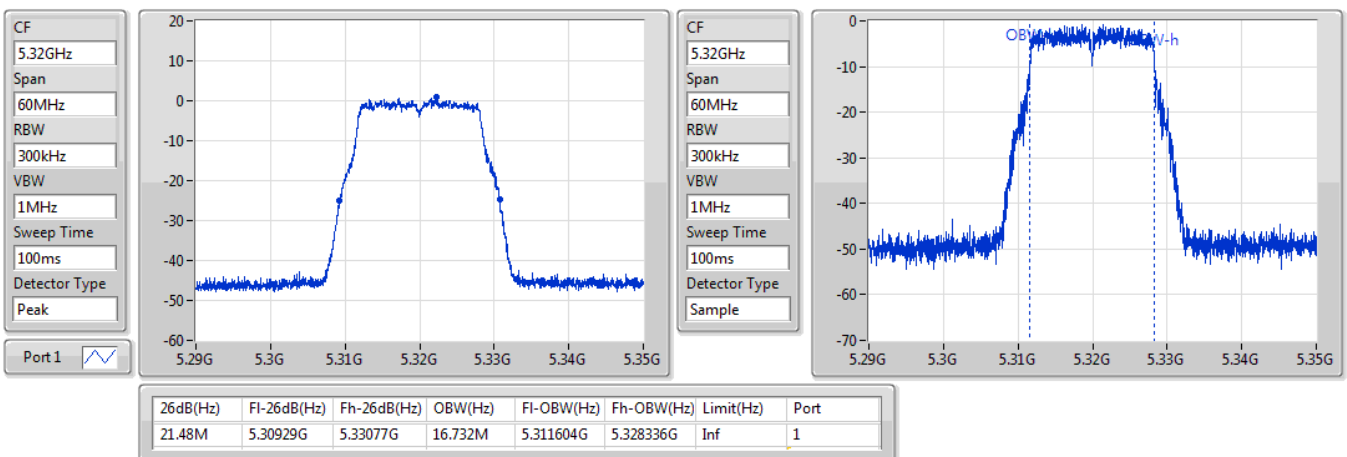


802.11a_Nss1,(6Mbps)_1TX
EBW
5300MHz

06/04/2021

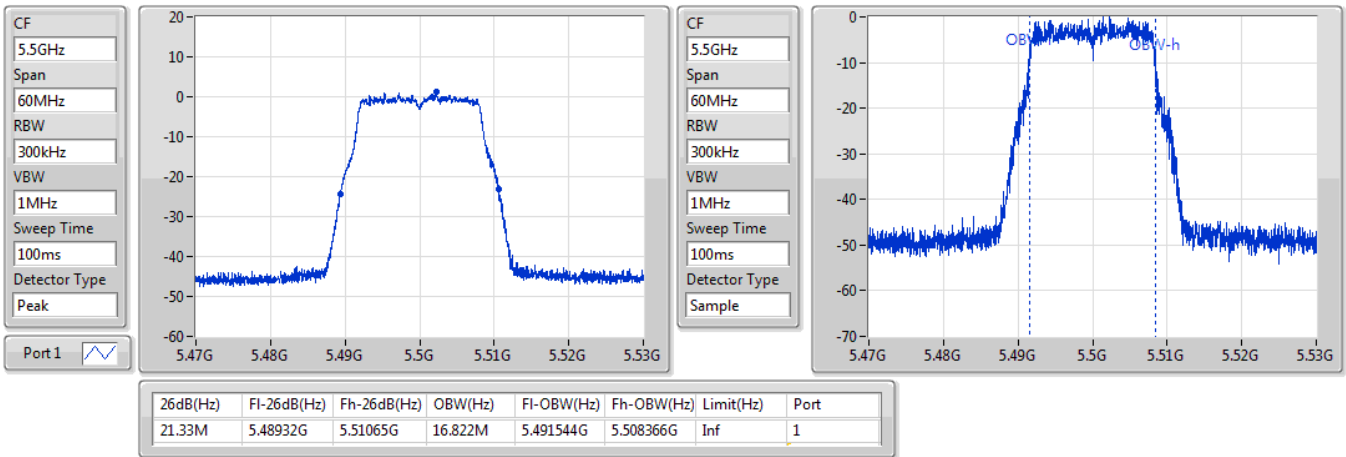

802.11a_Nss1,(6Mbps)_1TX
EBW
5320MHz

06/04/2021

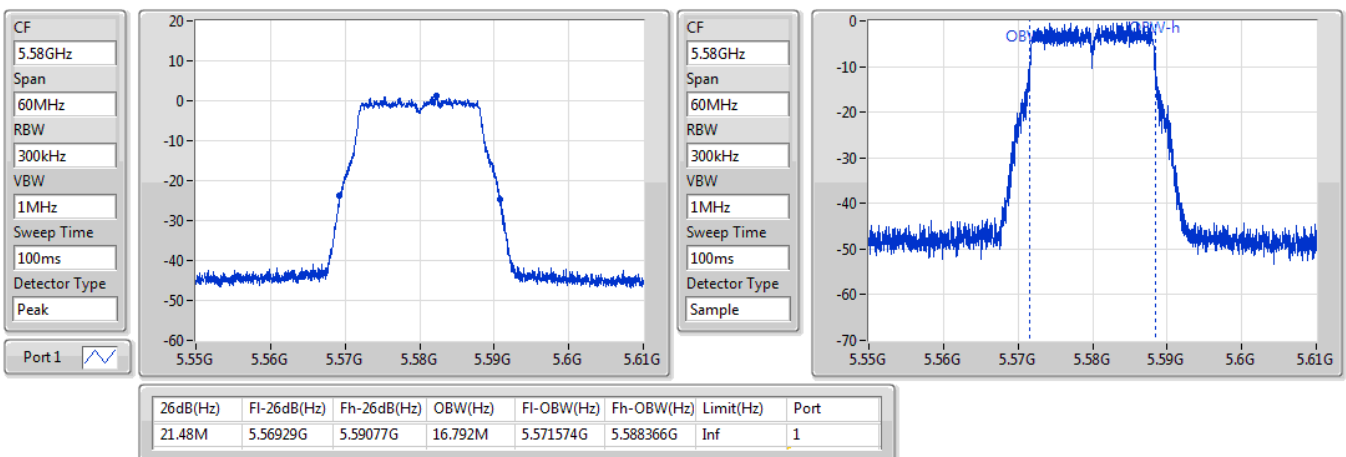


802.11a_Nss1,(6Mbps)_1TX
EBW
5500MHz

06/04/2021

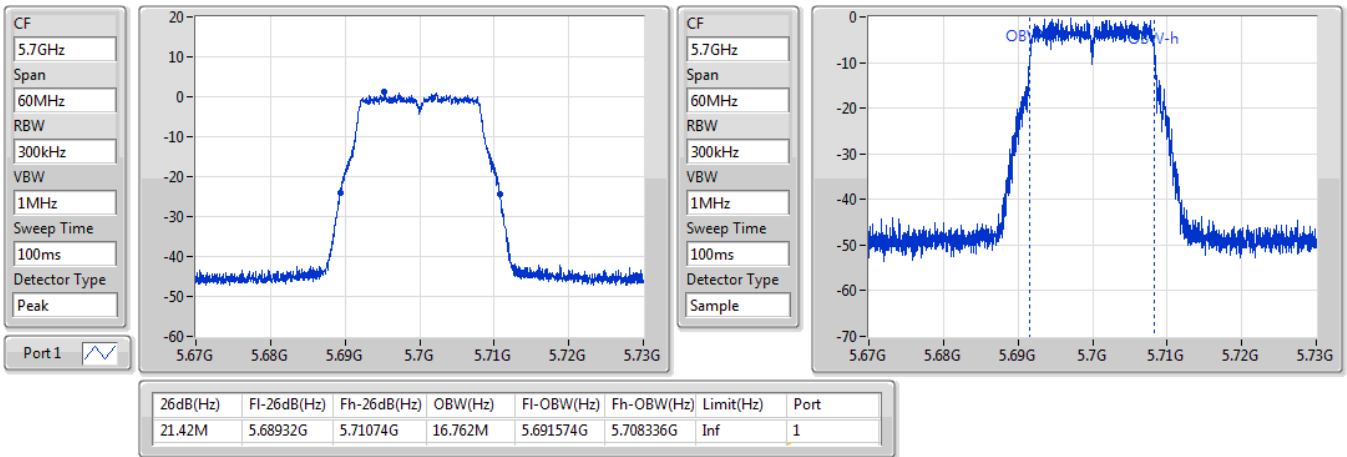

802.11a_Nss1,(6Mbps)_1TX
EBW
5580MHz

06/04/2021

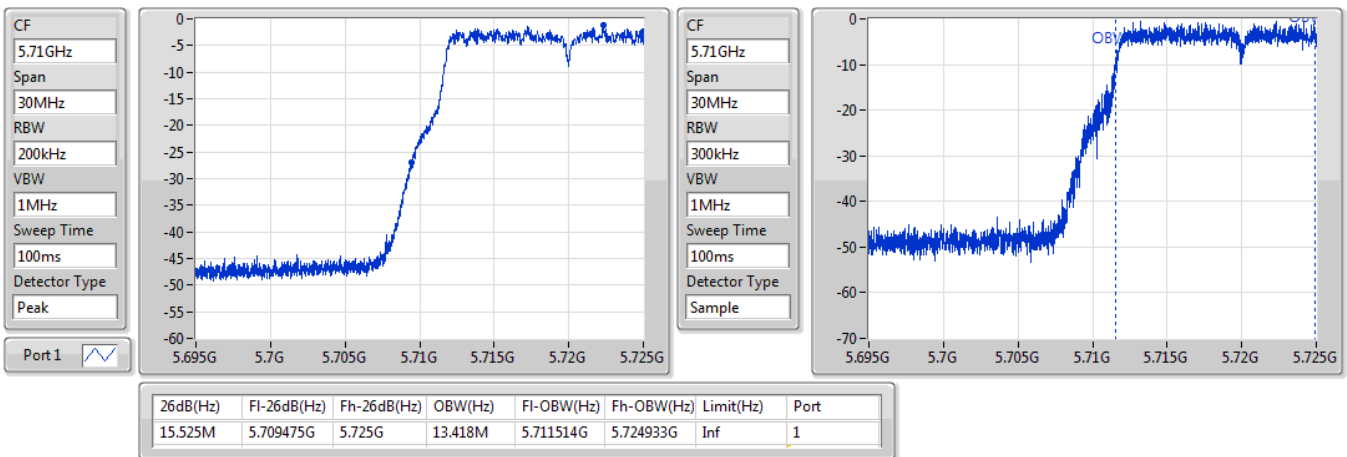


802.11a_Nss1,(6Mbps)_1TX
EBW
5700MHz

06/04/2021

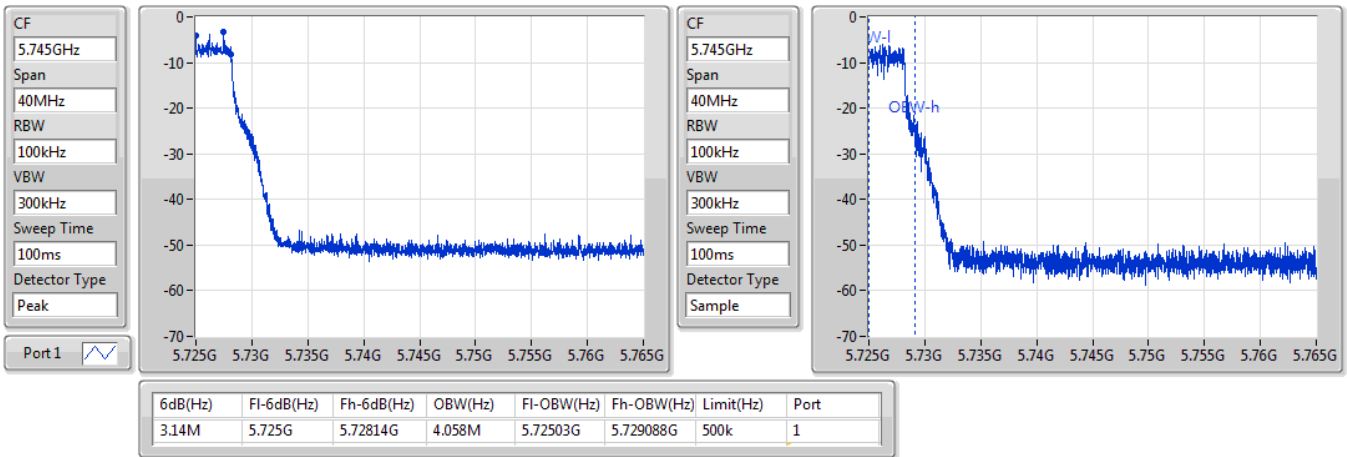

802.11a_Nss1,(6Mbps)_1TX
EBW
5720MHz Straddle 5.47-5.725GHz

06/04/2021

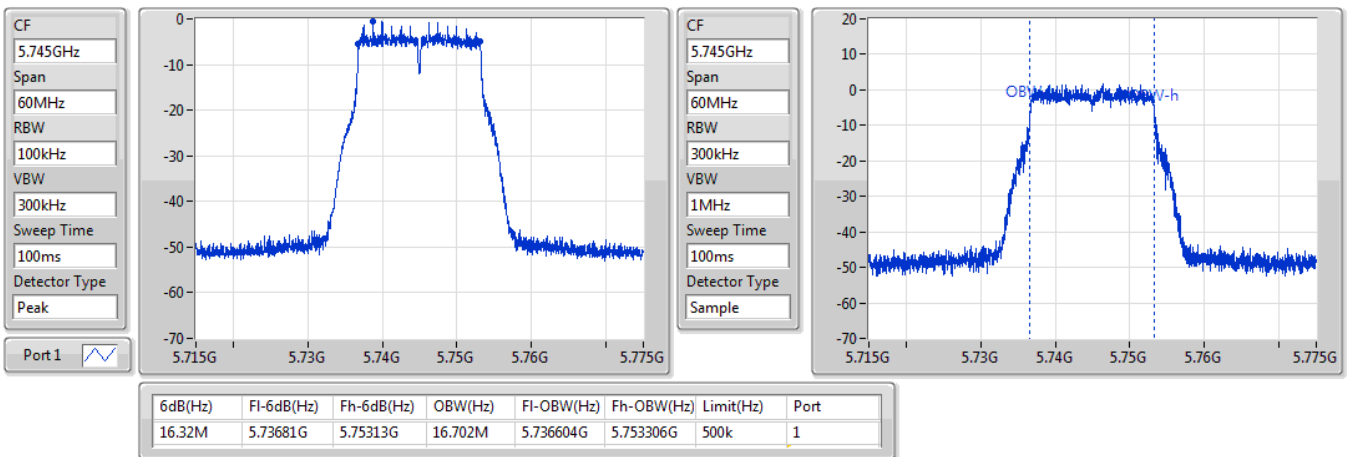


802.11a_Nss1,(6Mbps)_1TX
EBW
5720MHz Straddle 5.725-5.85GHz

06/04/2021

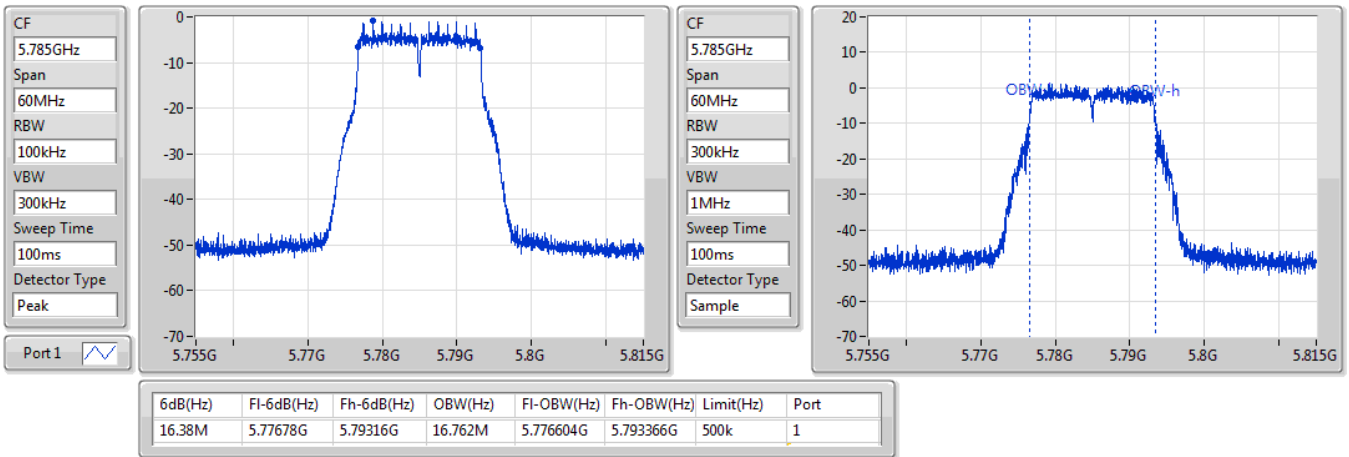

802.11a_Nss1,(6Mbps)_1TX
EBW
5745MHz

06/04/2021

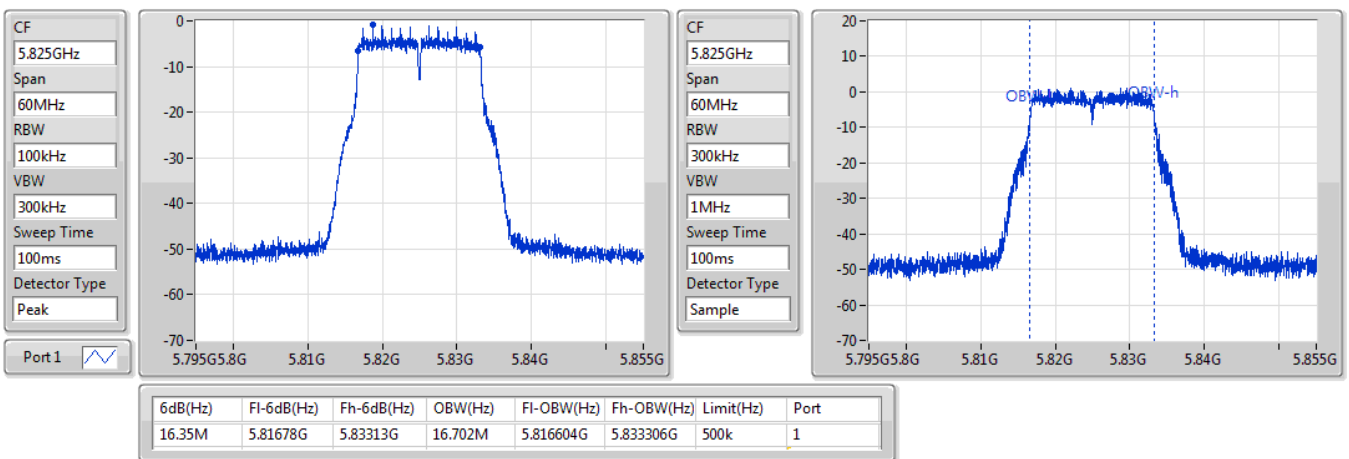


802.11a_Nss1,(6Mbps)_1TX
EBW
5785MHz

06/04/2021

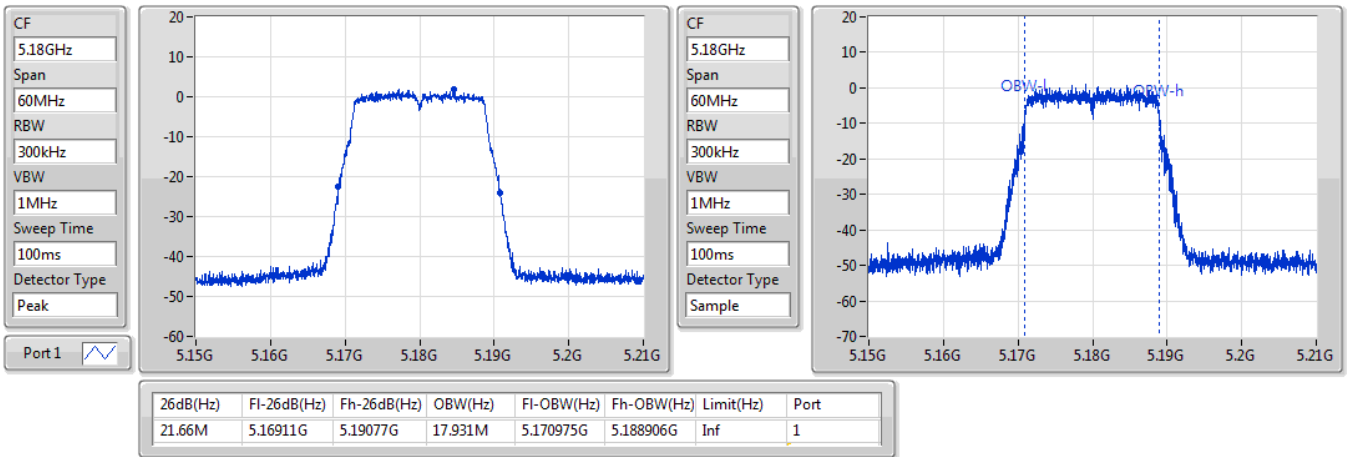

802.11a_Nss1,(6Mbps)_1TX
EBW
5825MHz

06/04/2021

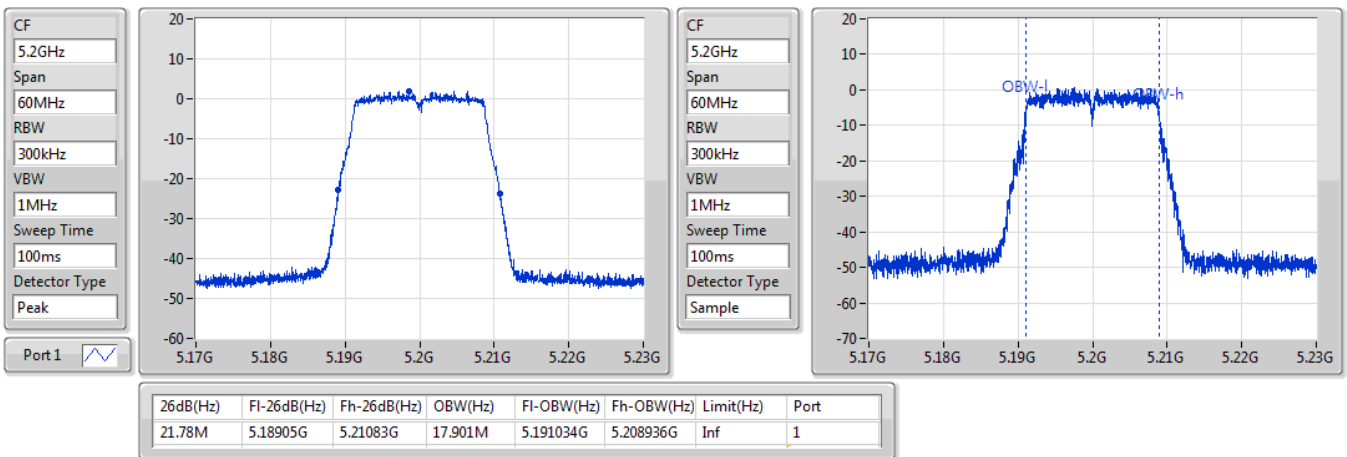


802.11n HT20_Nss1,(MCS0)_1TX
EBW
5180MHz

06/04/2021

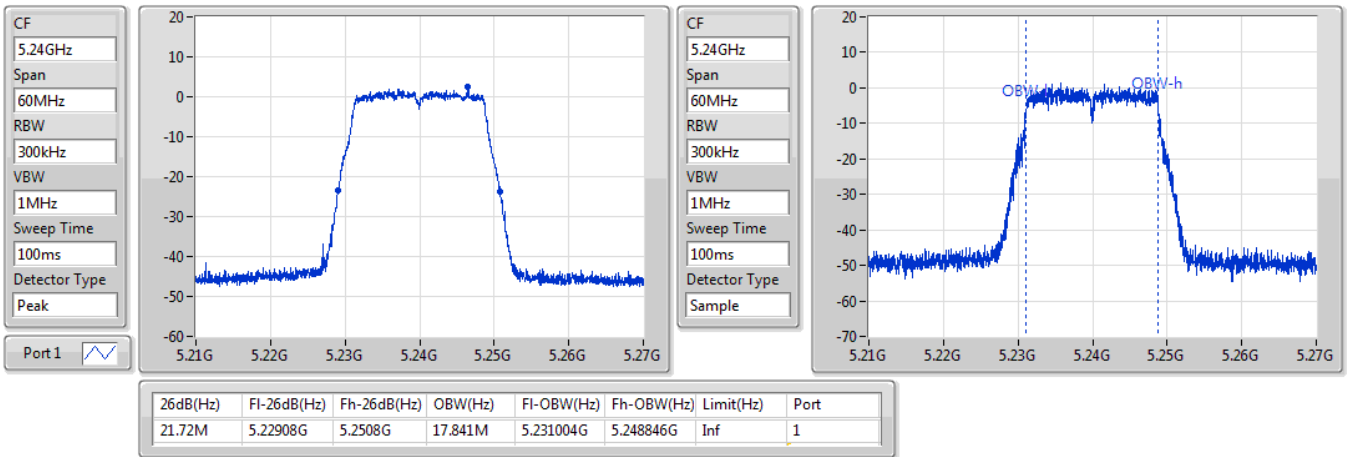

802.11n HT20_Nss1,(MCS0)_1TX
EBW
5200MHz

06/04/2021

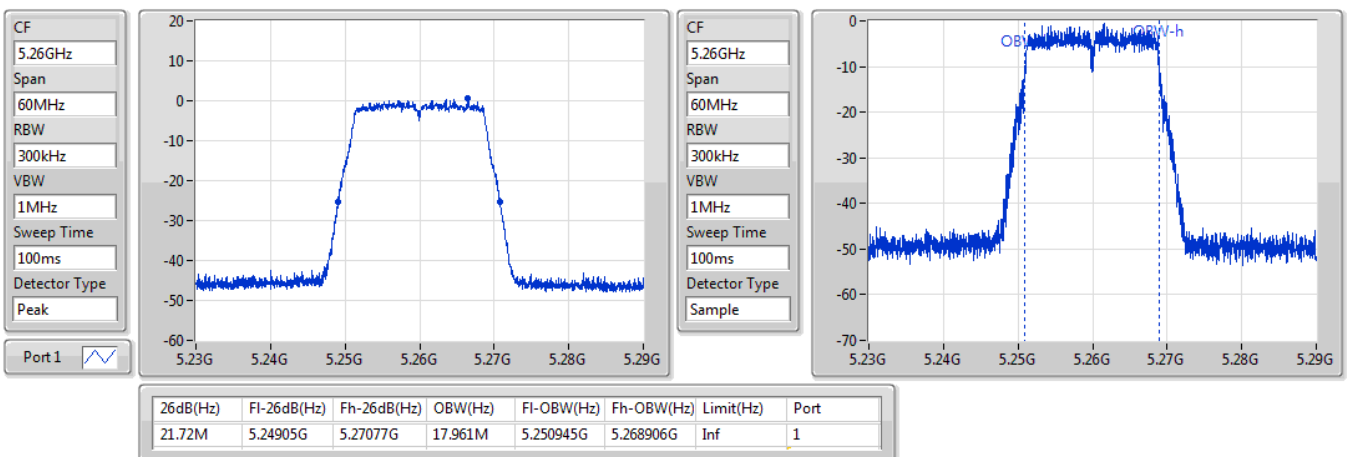


802.11n HT20_Nss1,(MCS0)_1TX
EBW
5240MHz

06/04/2021

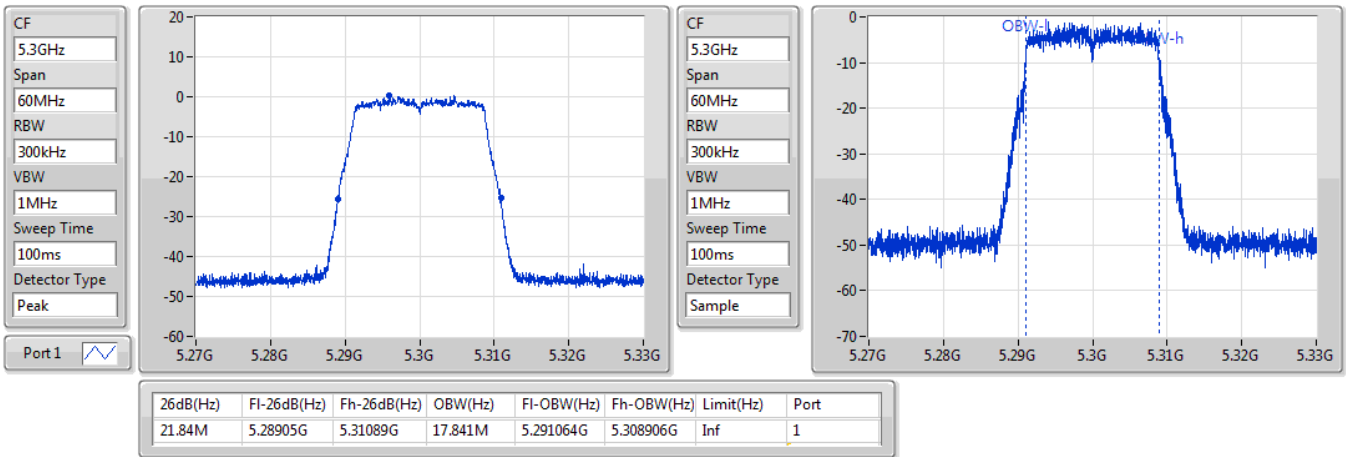

802.11n HT20_Nss1,(MCS0)_1TX
EBW
5260MHz

06/04/2021

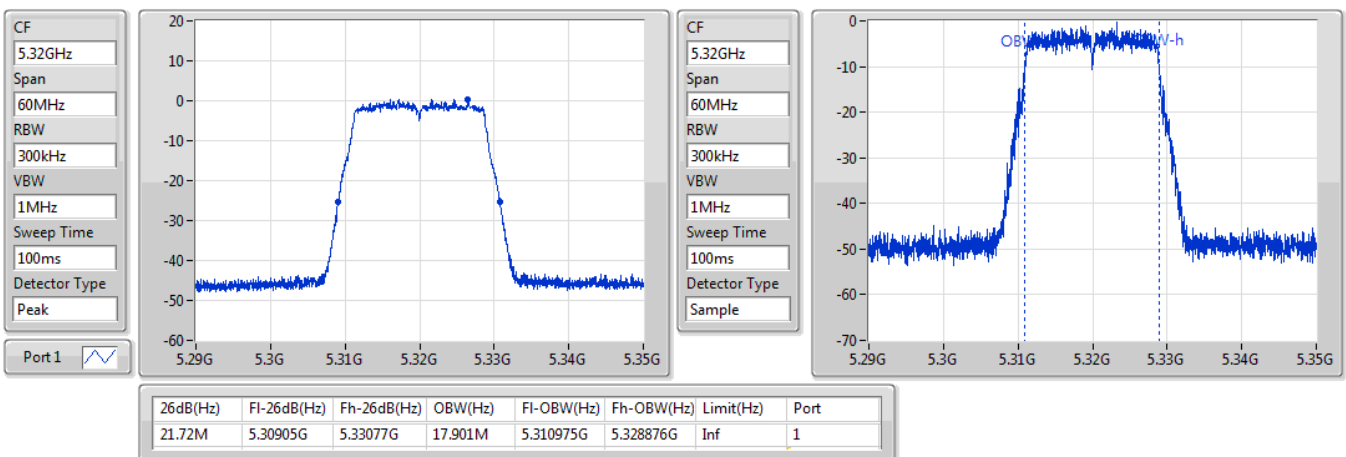


802.11n HT20_Nss1,(MCS0)_1TX
EBW
5300MHz

06/04/2021

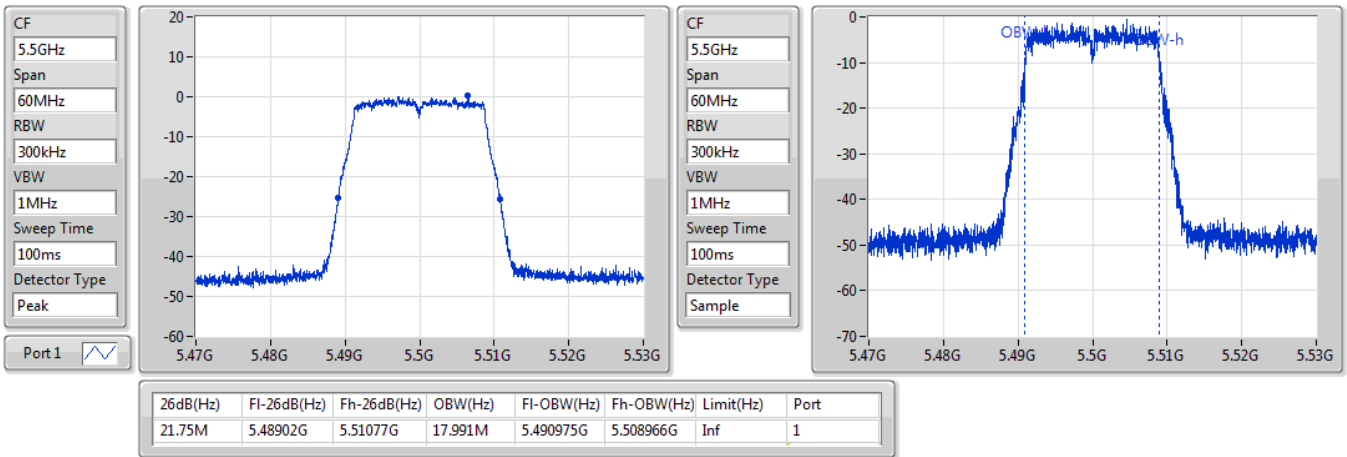

802.11n HT20_Nss1,(MCS0)_1TX
EBW
5320MHz

06/04/2021

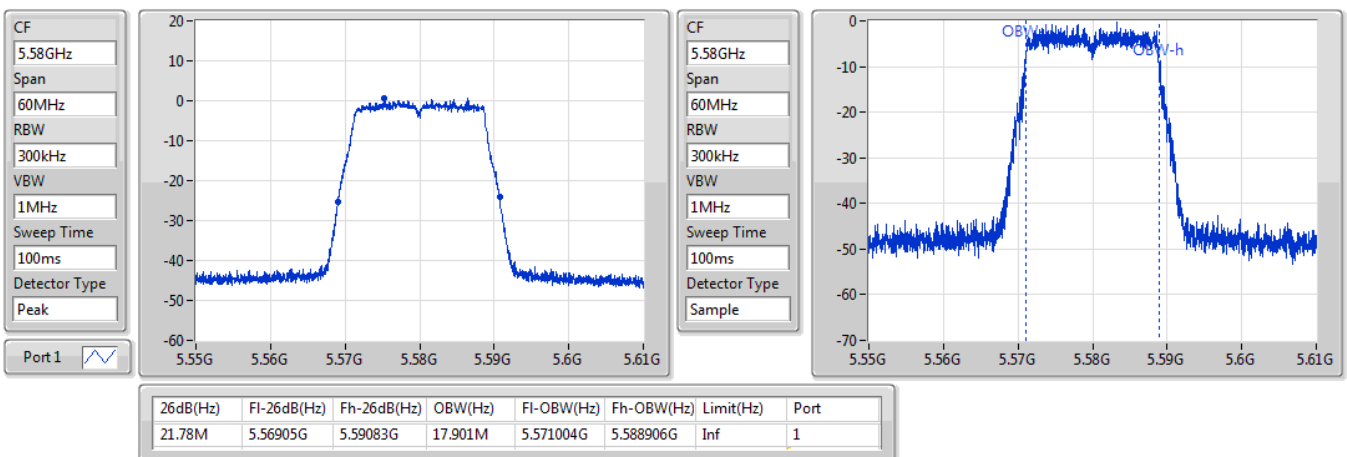


802.11n HT20_Nss1,(MCS0)_1TX
EBW
5500MHz

06/04/2021

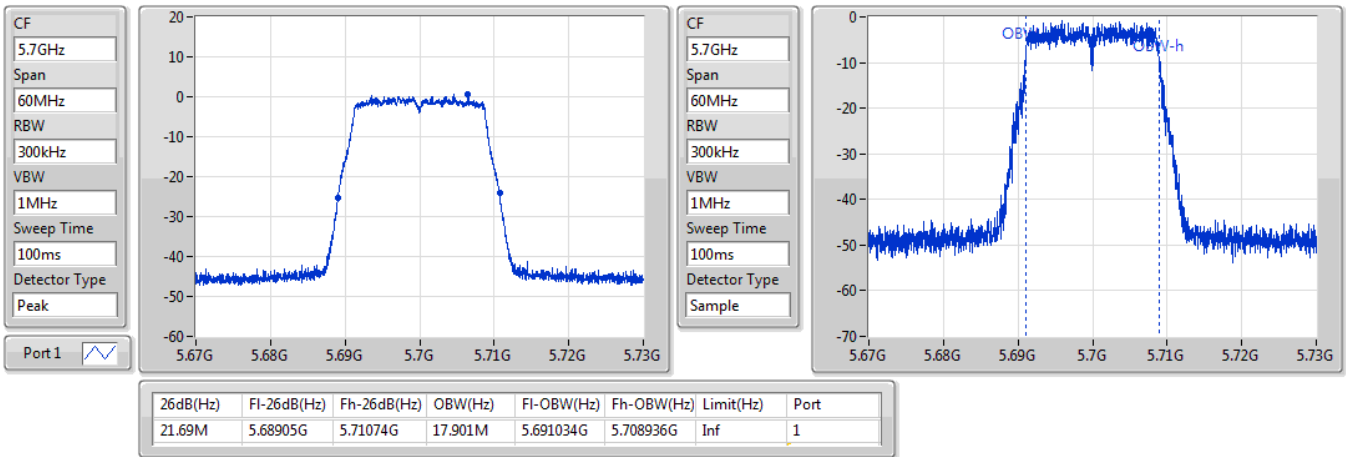

802.11n HT20_Nss1,(MCS0)_1TX
EBW
5580MHz

06/04/2021

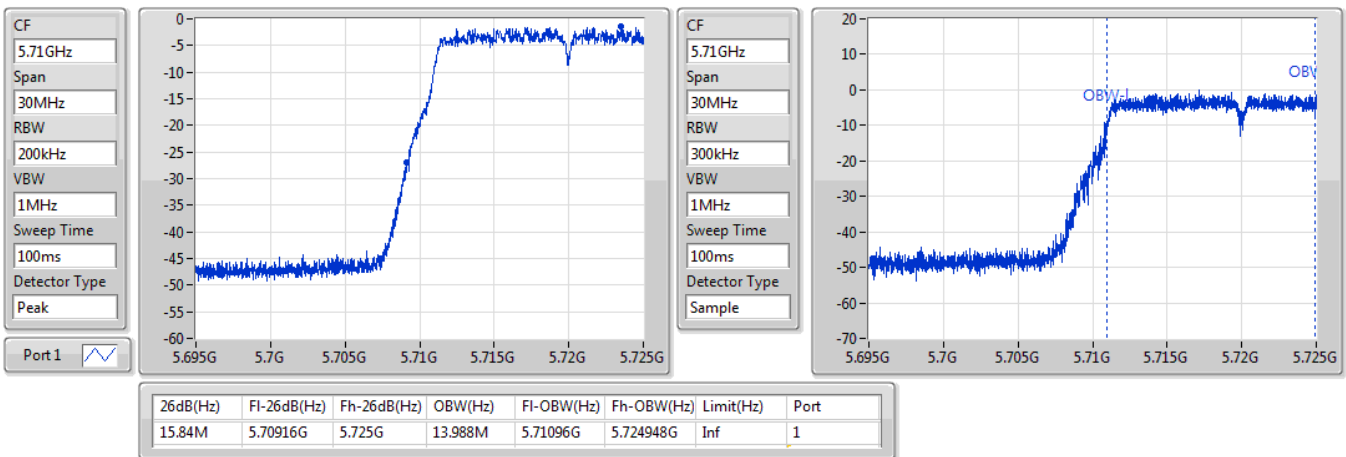


802.11n HT20_Nss1,(MCS0)_1TX
EBW
5700MHz

06/04/2021

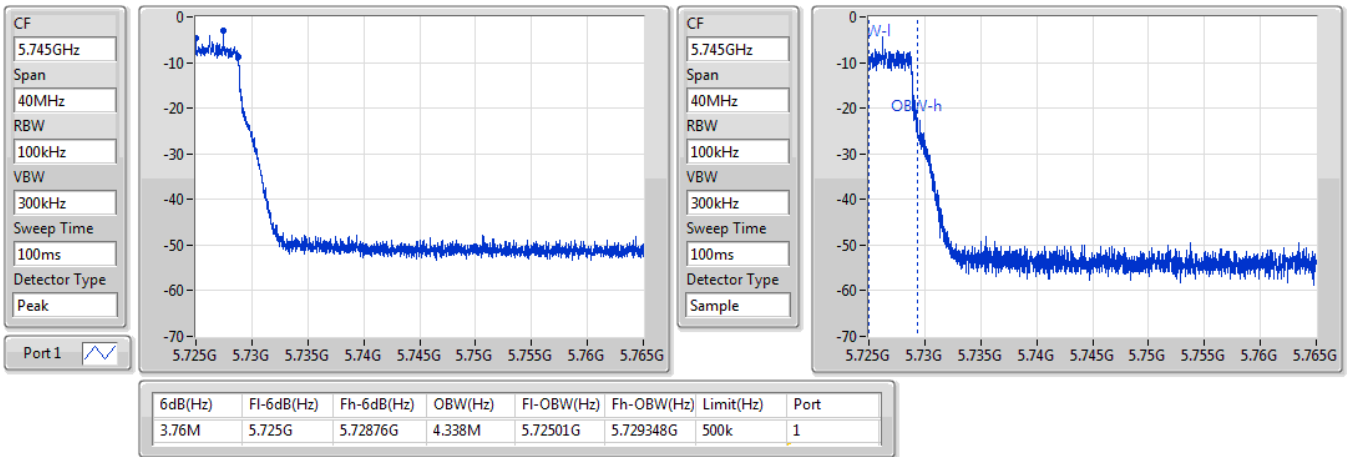

802.11n HT20_Nss1,(MCS0)_1TX
EBW
5720MHz Straddle 5.47-5.725GHz

06/04/2021

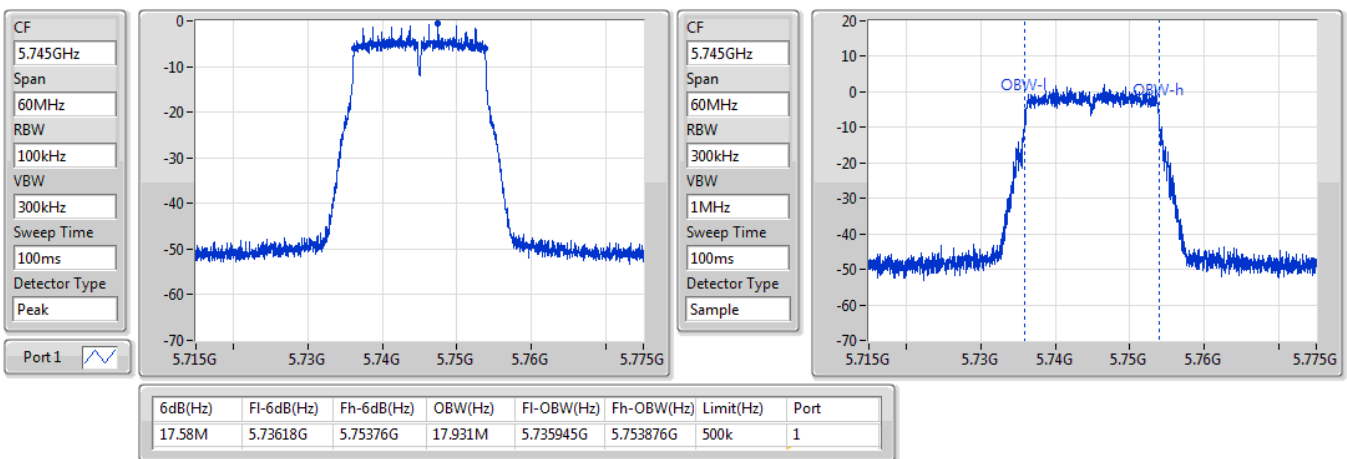


802.11n HT20_Nss1,(MCS0)_1TX
EBW
5720MHz Straddle 5.725-5.85GHz

06/04/2021

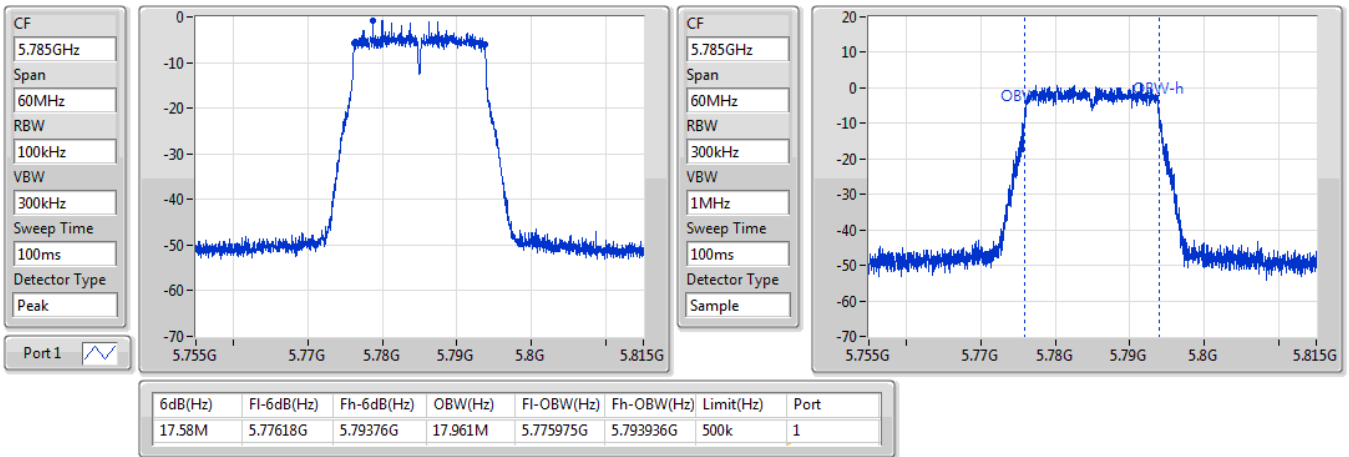

802.11n HT20_Nss1,(MCS0)_1TX
EBW
5745MHz

06/04/2021

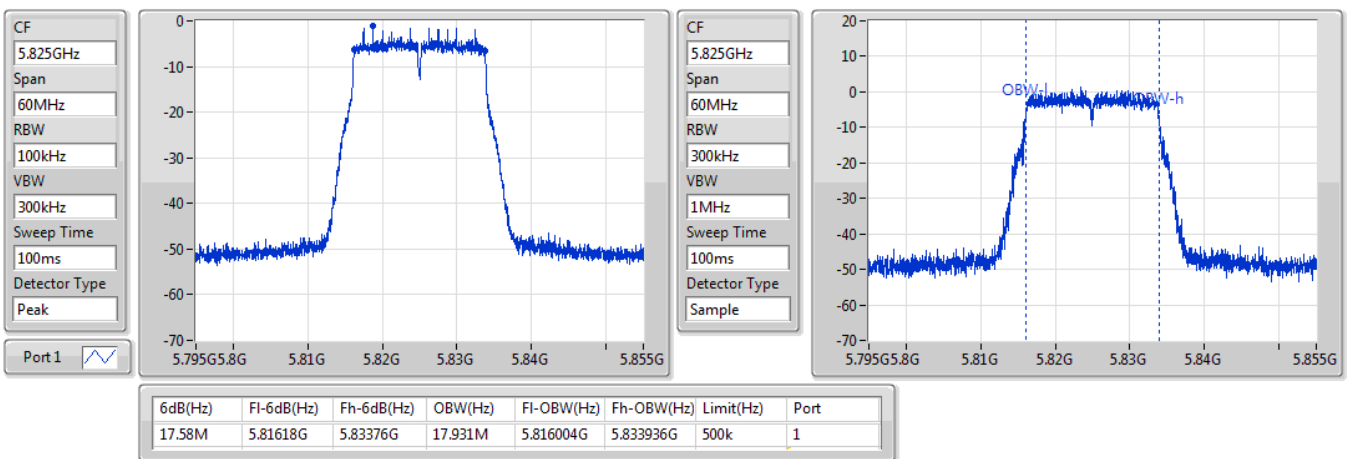


802.11n HT20_Nss1,(MCS0)_1TX
EBW
5785MHz

06/04/2021

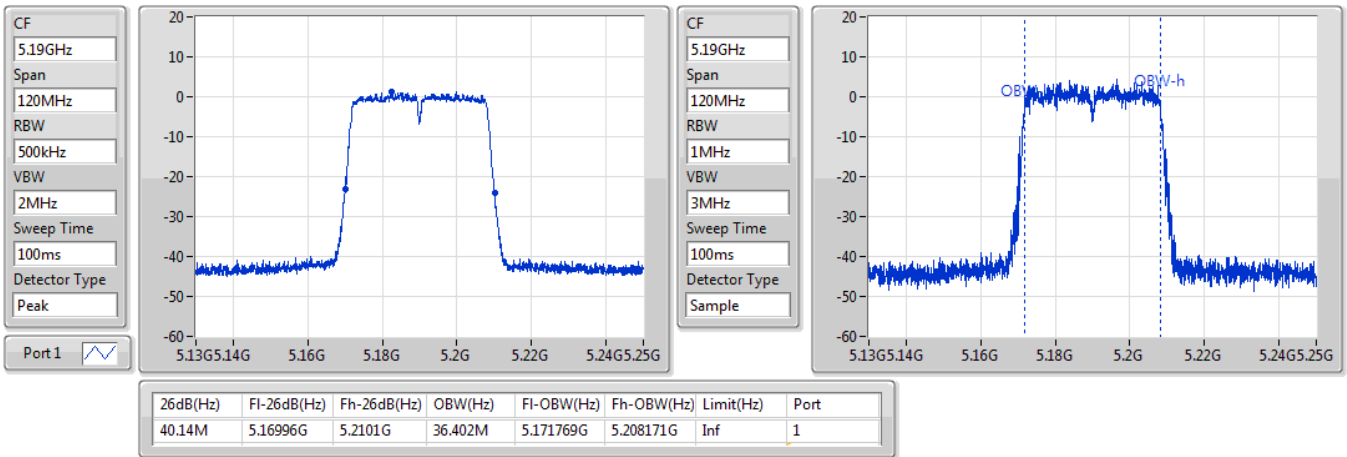

802.11n HT20_Nss1,(MCS0)_1TX
EBW
5825MHz

06/04/2021

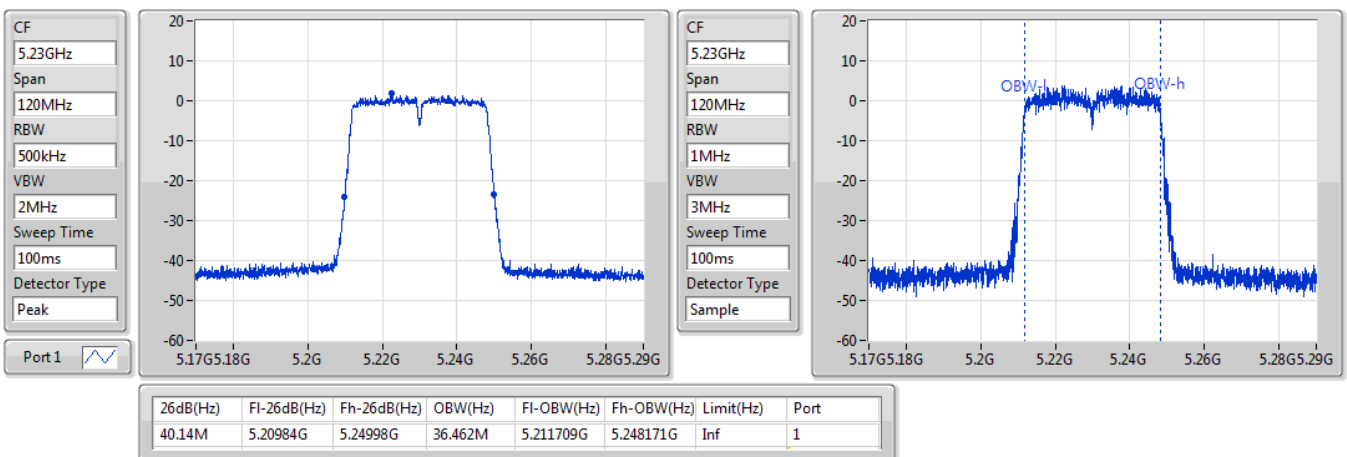


802.11n HT40_Nss1,(MCS0)_1TX
EBW
5190MHz

06/04/2021

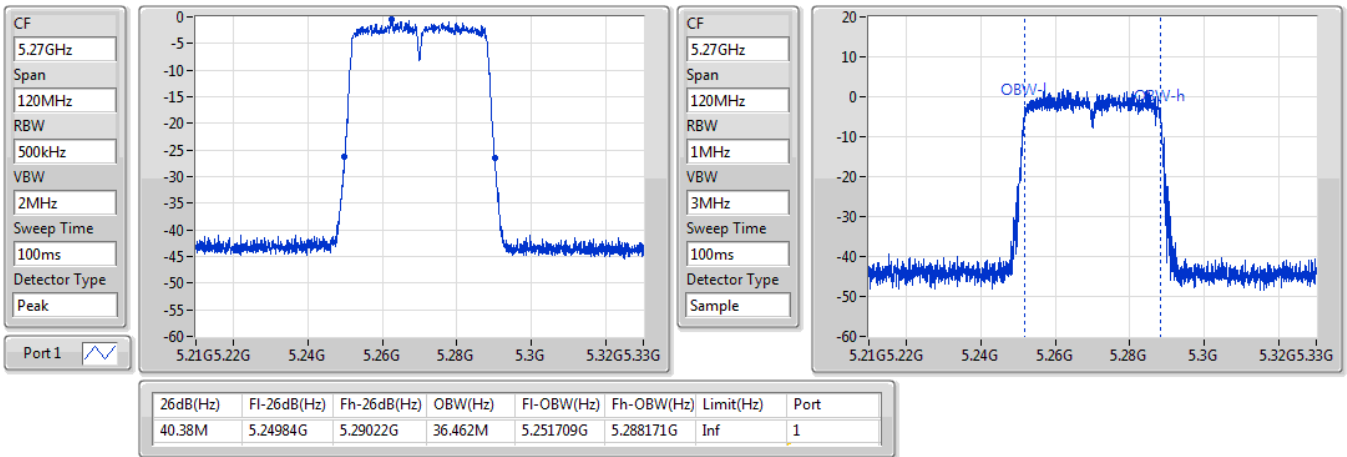

802.11n HT40_Nss1,(MCS0)_1TX
EBW
5230MHz

06/04/2021

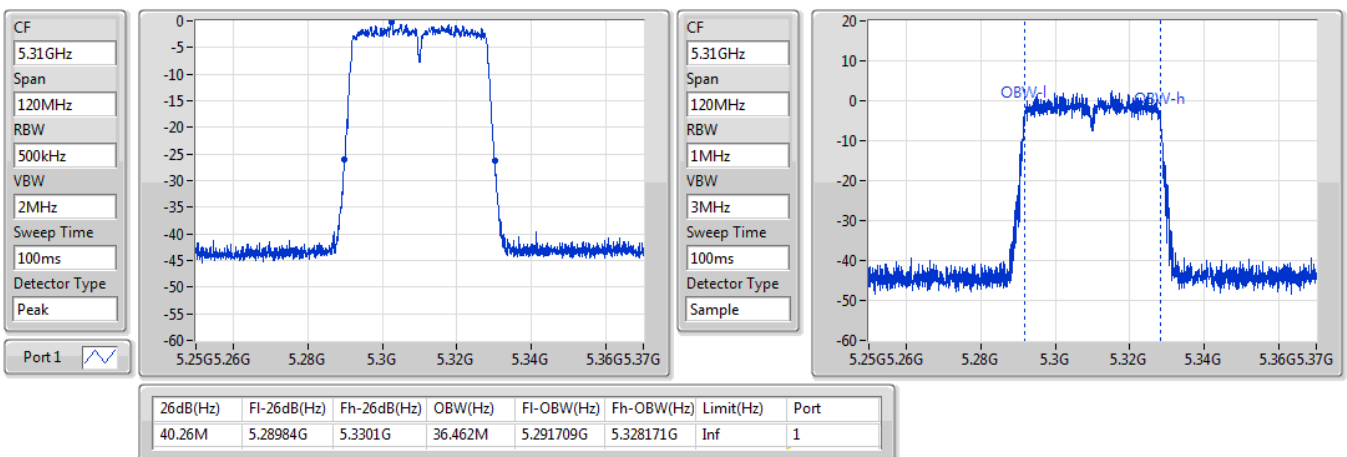


802.11n HT40_Nss1,(MCS0)_1TX
EBW
5270MHz

06/04/2021

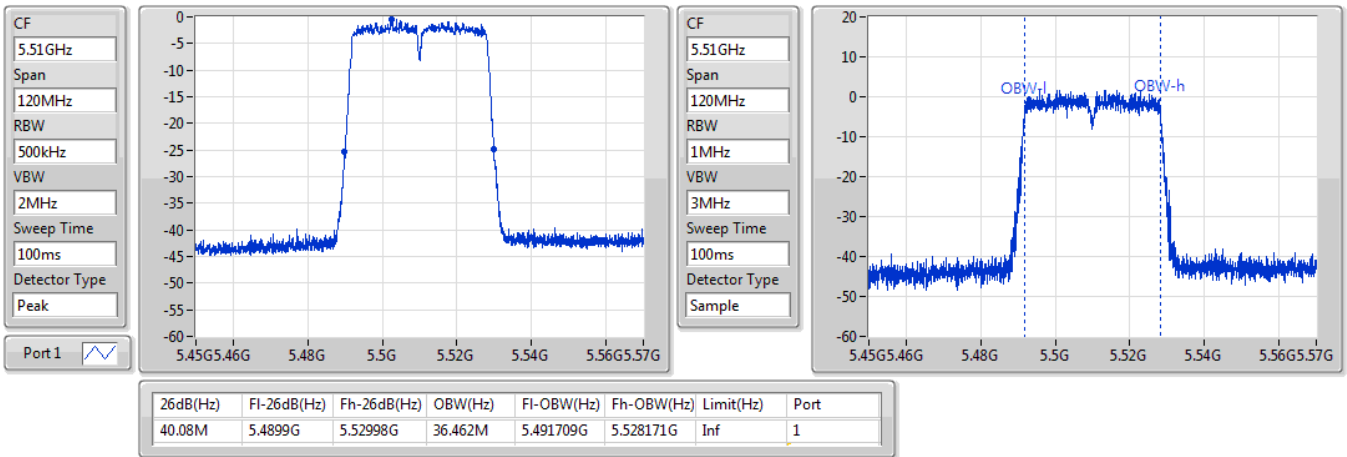

802.11n HT40_Nss1,(MCS0)_1TX
EBW
5310MHz

06/04/2021

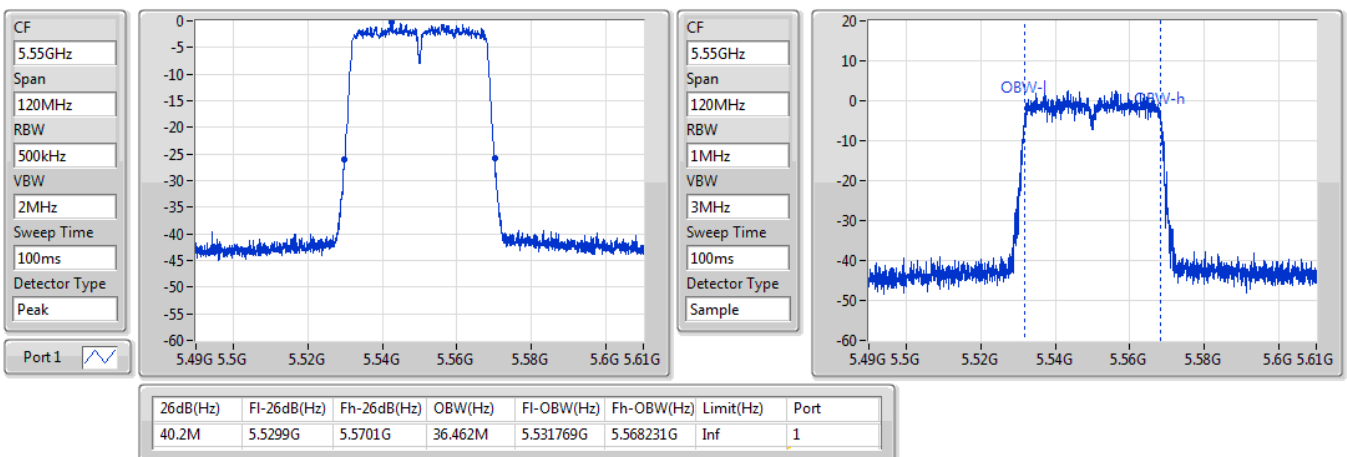


802.11n HT40_Nss1,(MCS0)_1TX
EBW
5510MHz

06/04/2021

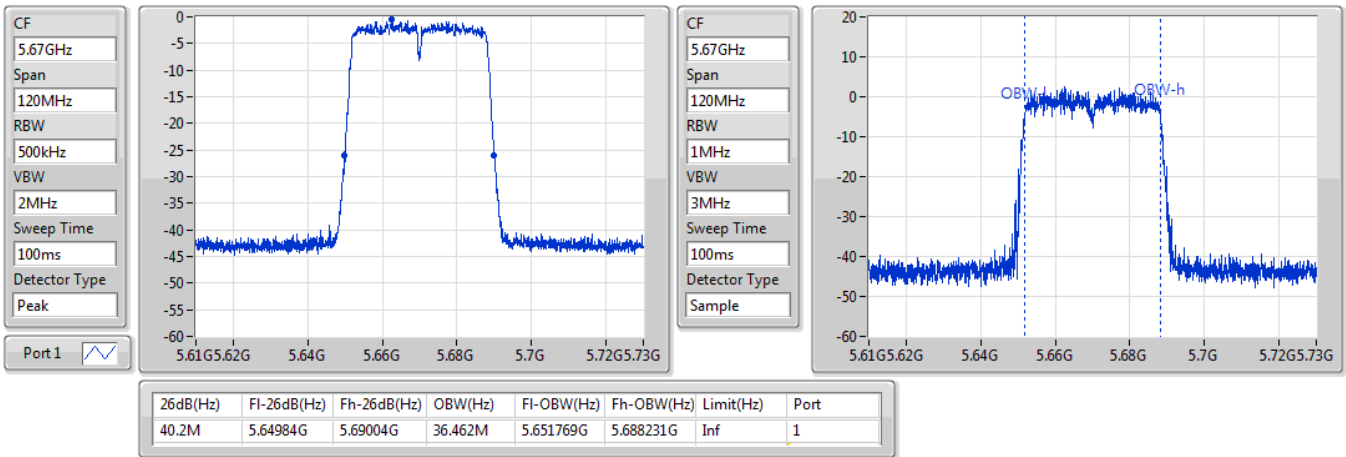

802.11n HT40_Nss1,(MCS0)_1TX
EBW
5550MHz

06/04/2021

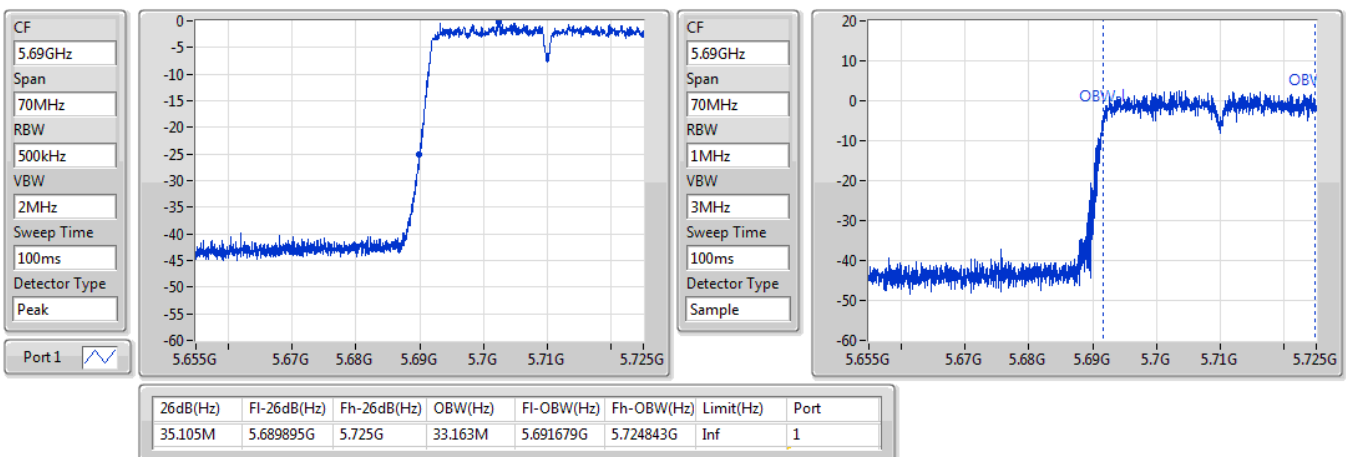


802.11n HT40_Nss1,(MCS0)_1TX
EBW
5670MHz

06/04/2021

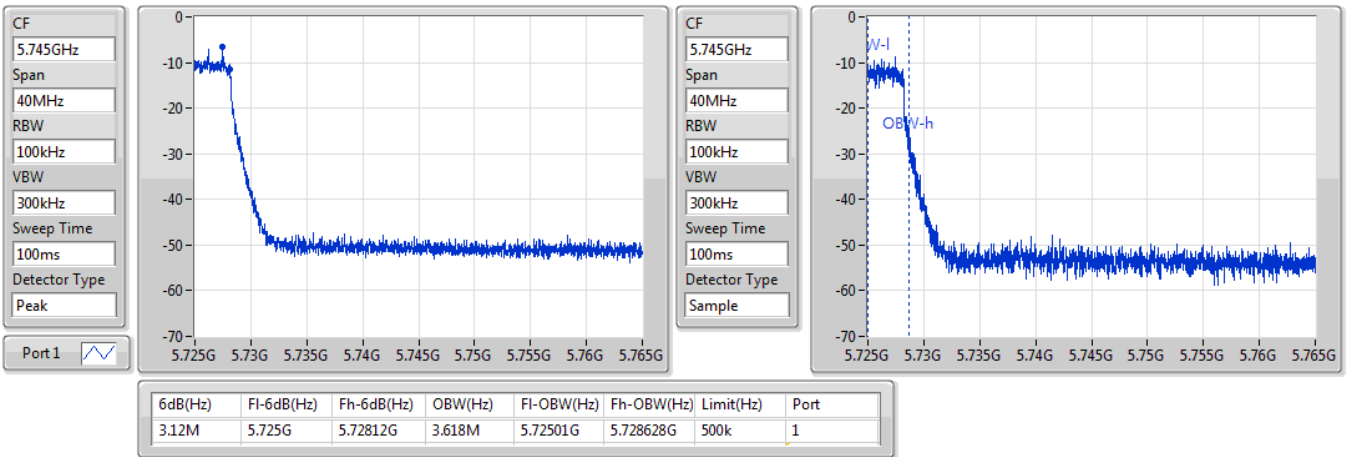

802.11n HT40_Nss1,(MCS0)_1TX
EBW
5710MHz Straddle 5.47-5.725GHz

06/04/2021

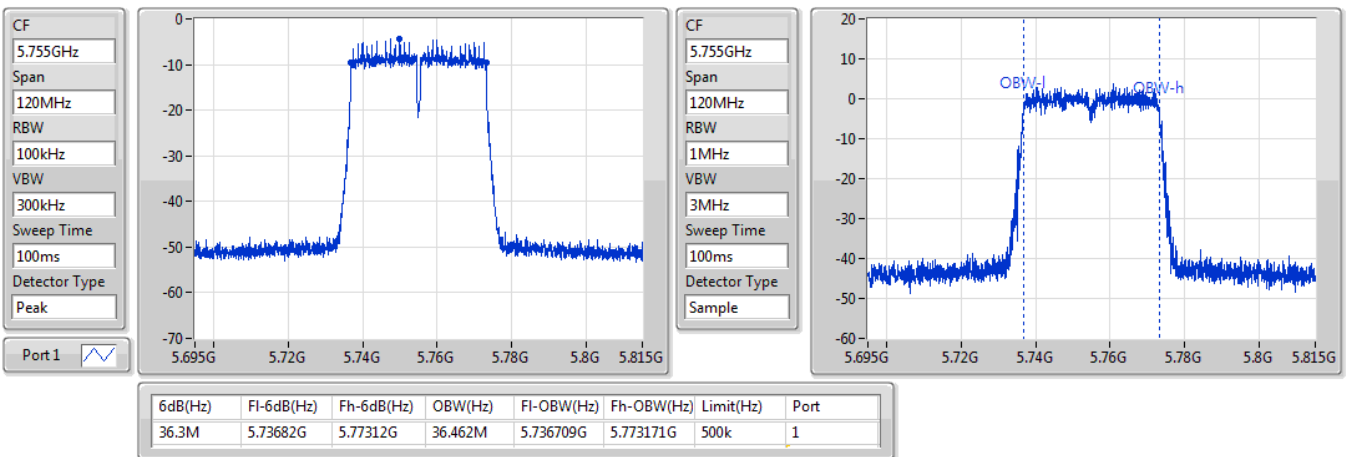


802.11n HT40_Nss1,(MCS0)_1TX
EBW
5710MHz Straddle 5.725-5.85GHz

06/04/2021

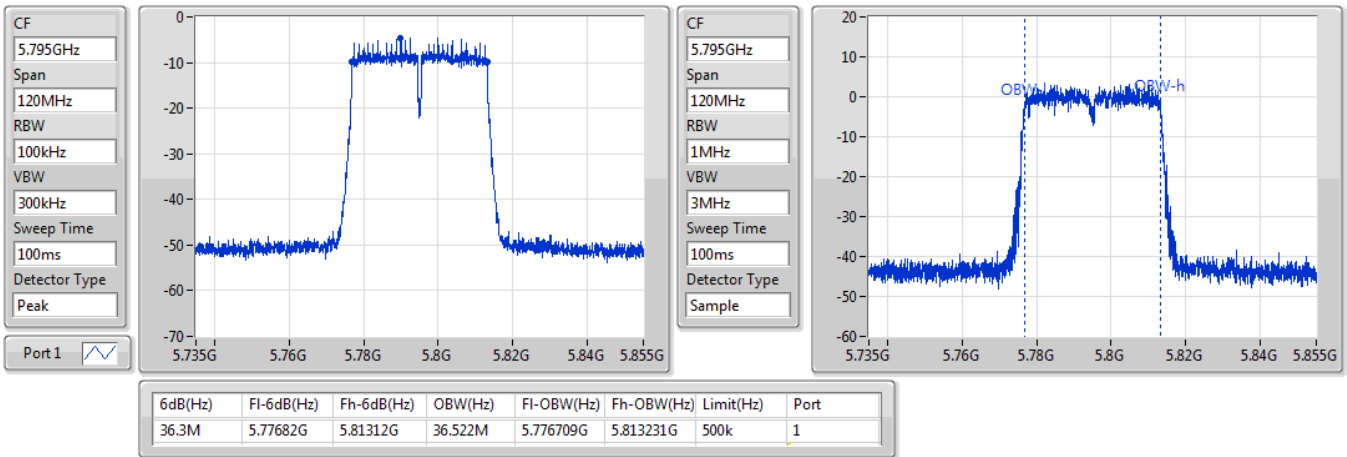

802.11n HT40_Nss1,(MCS0)_1TX
EBW
5755MHz

06/04/2021

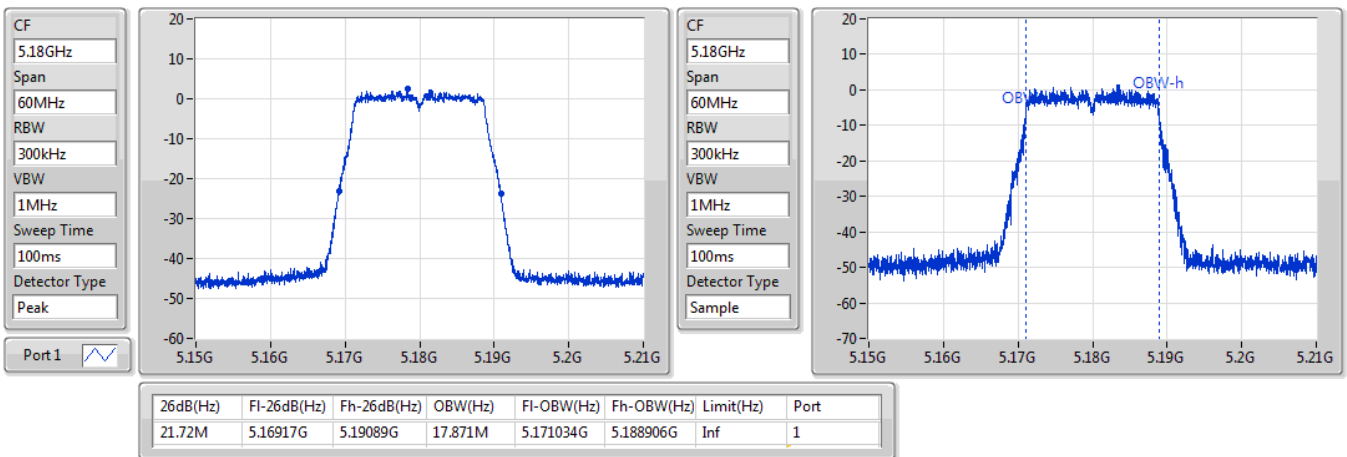


802.11n HT40_Nss1,(MCS0)_1TX
EBW
5795MHz

06/04/2021

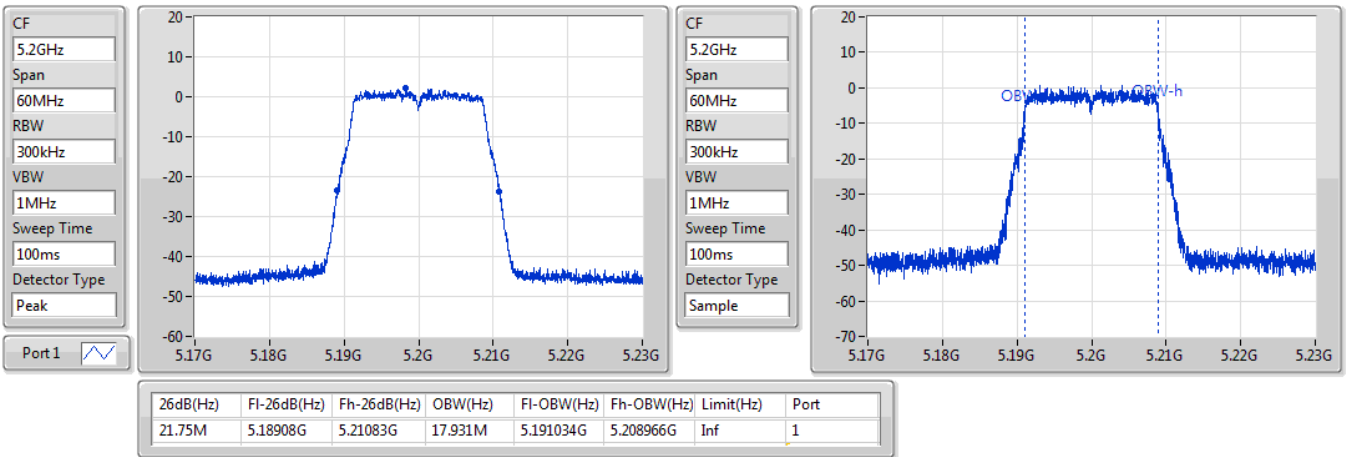

802.11ac VHT20_Nss1,(MCS0)_1TX
EBW
5180MHz

06/04/2021

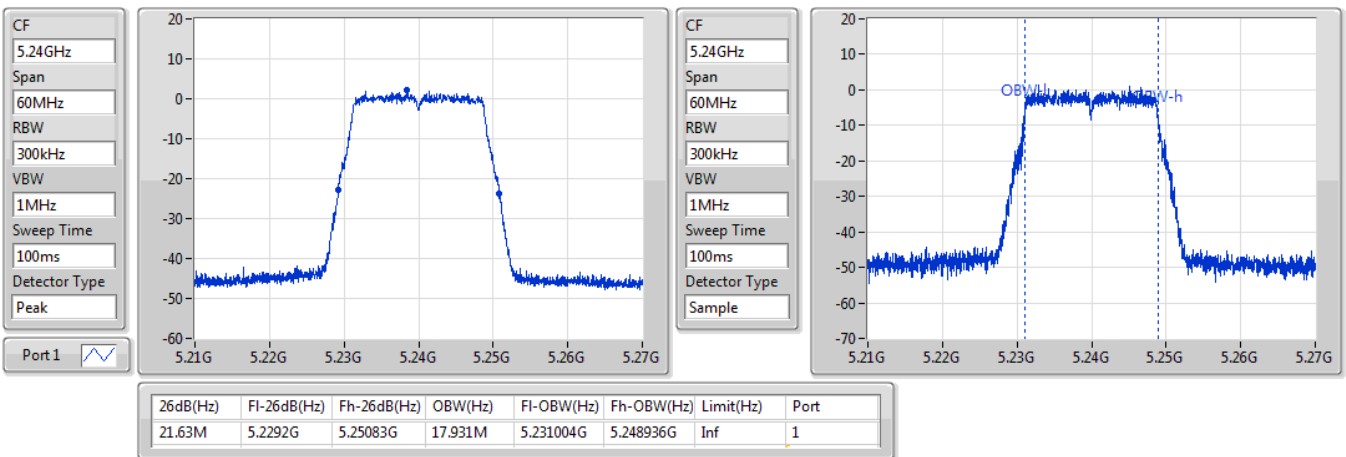


802.11ac VHT20_Nss1,(MCS0)_1TX
EBW
5200MHz

06/04/2021

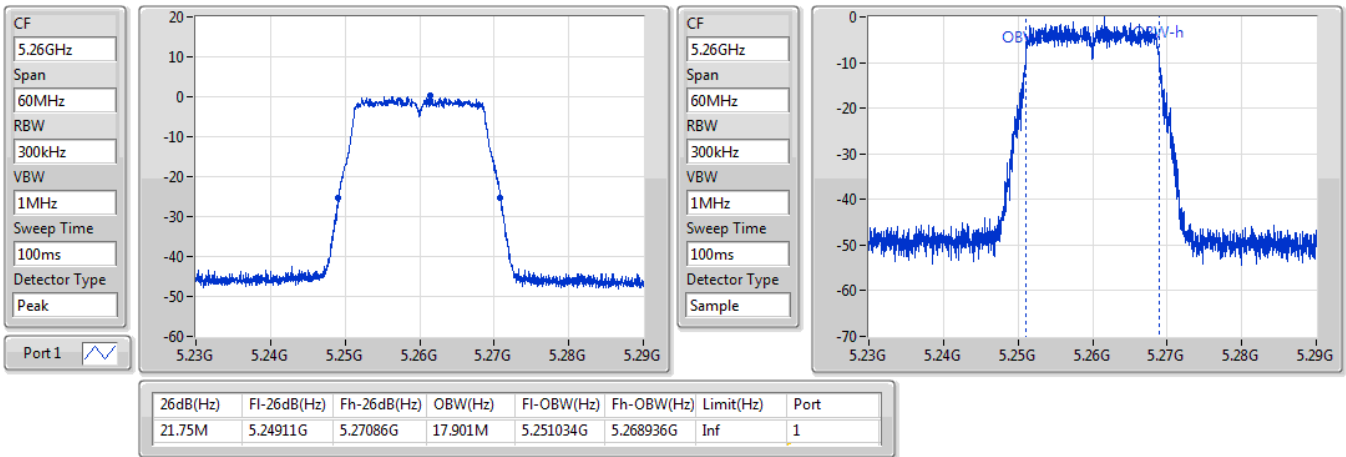

802.11ac VHT20_Nss1,(MCS0)_1TX
EBW
5240MHz

06/04/2021

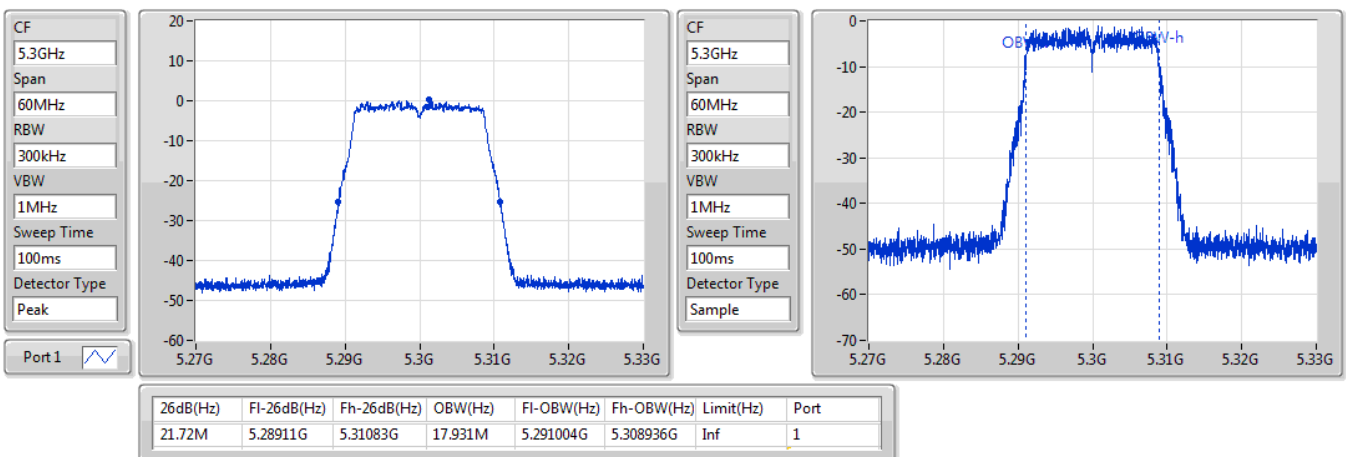


802.11ac VHT20_Nss1,(MCS0)_1TX
EBW
5260MHz

06/04/2021

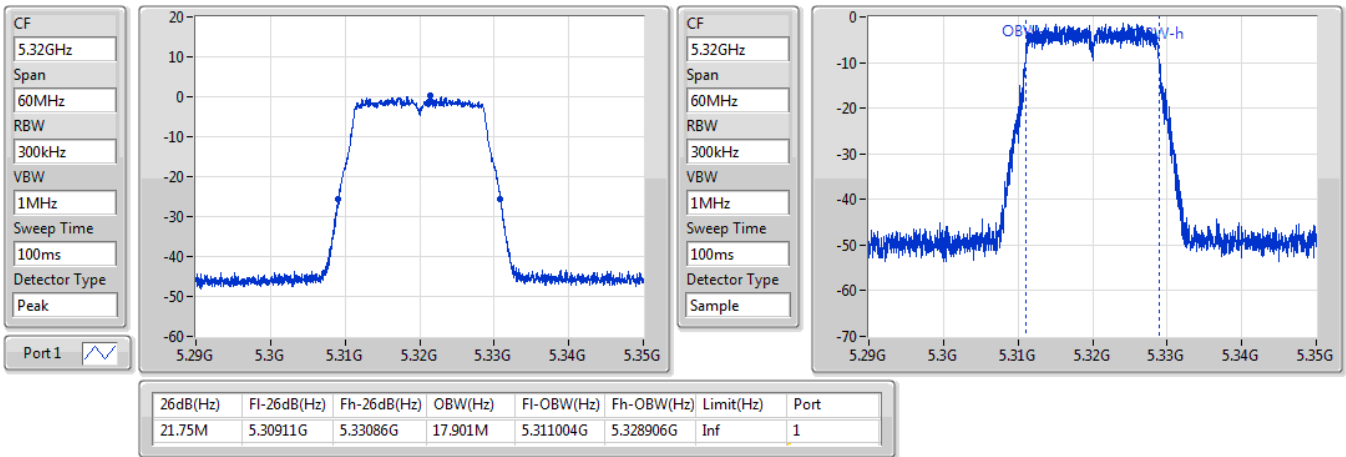

802.11ac VHT20_Nss1,(MCS0)_1TX
EBW
5300MHz

06/04/2021

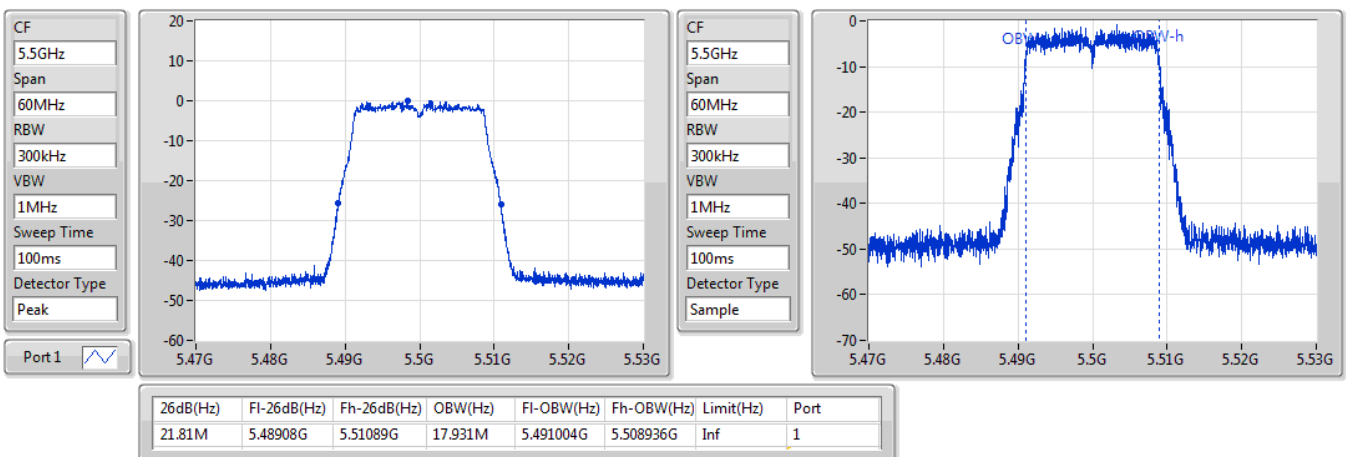


802.11ac VHT20_Nss1,(MCS0)_1TX
EBW
5320MHz

06/04/2021

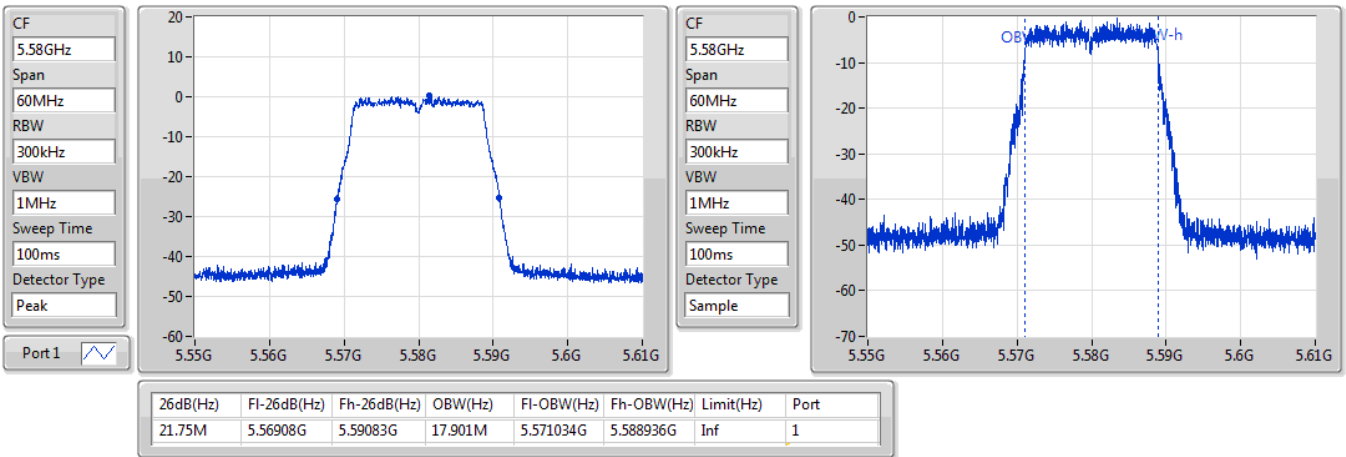

802.11ac VHT20_Nss1,(MCS0)_1TX
EBW
5500MHz

06/04/2021

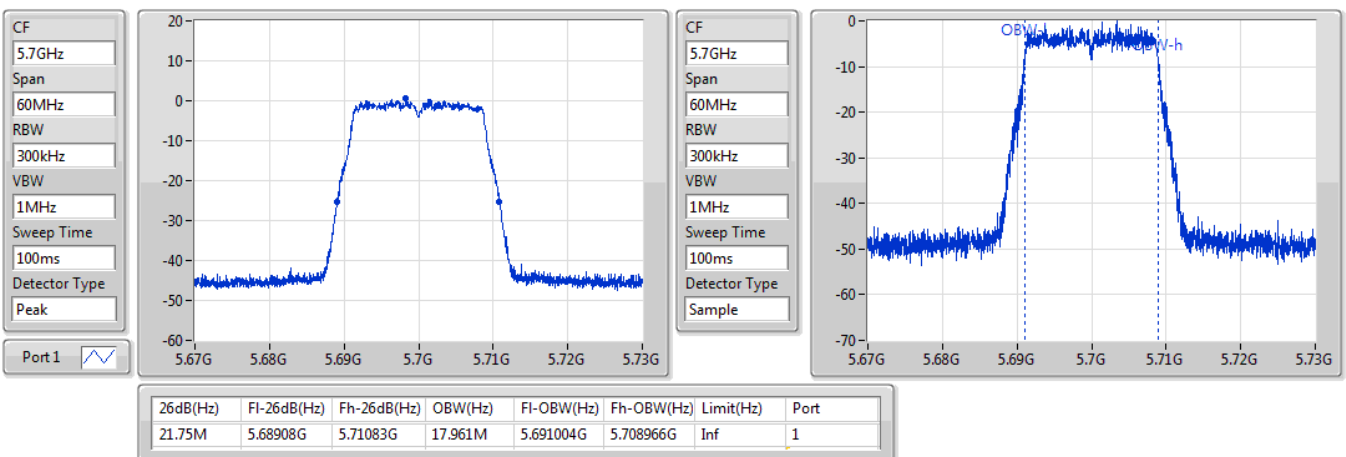


802.11ac VHT20_Nss1,(MCS0)_1TX
EBW
5580MHz

06/04/2021

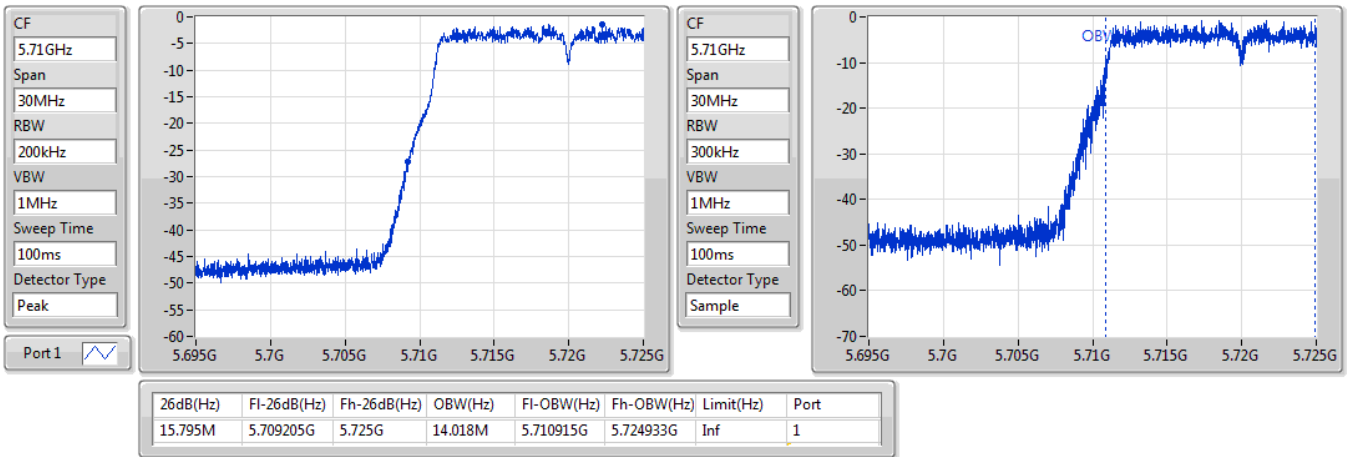

802.11ac VHT20_Nss1,(MCS0)_1TX
EBW
5700MHz

06/04/2021

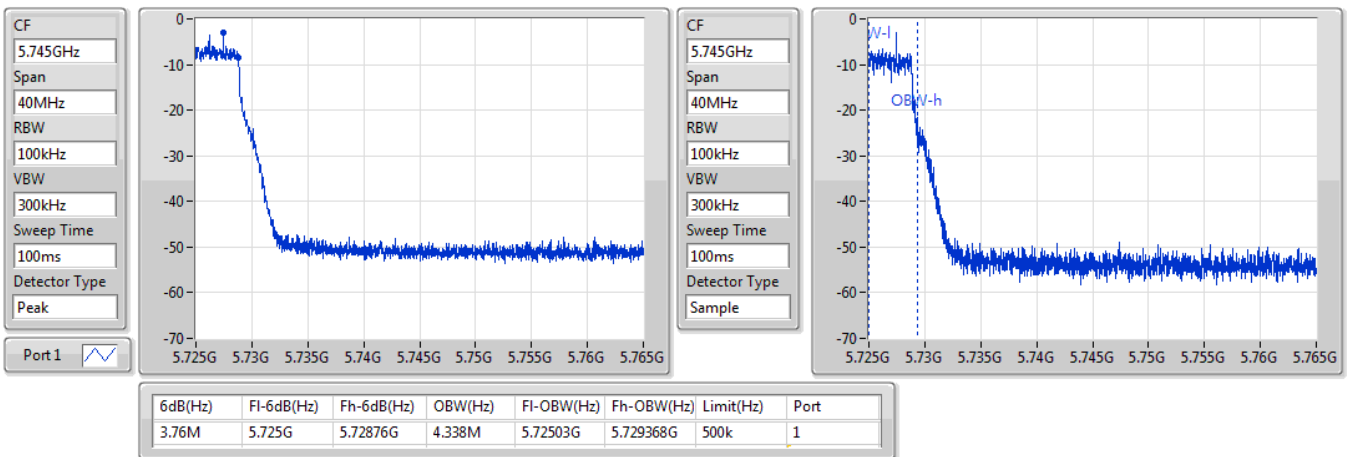


802.11ac VHT20_Nss1,(MCS0)_1TX
EBW
5720MHz Straddle 5.47-5.725GHz

06/04/2021

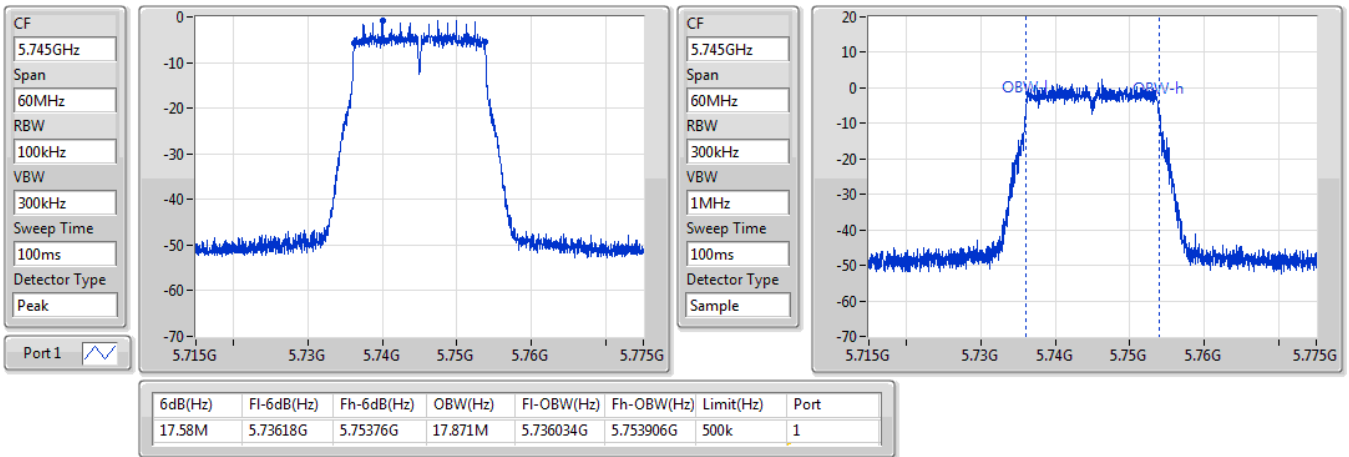

802.11ac VHT20_Nss1,(MCS0)_1TX
EBW
5720MHz Straddle 5.725-5.85GHz

06/04/2021

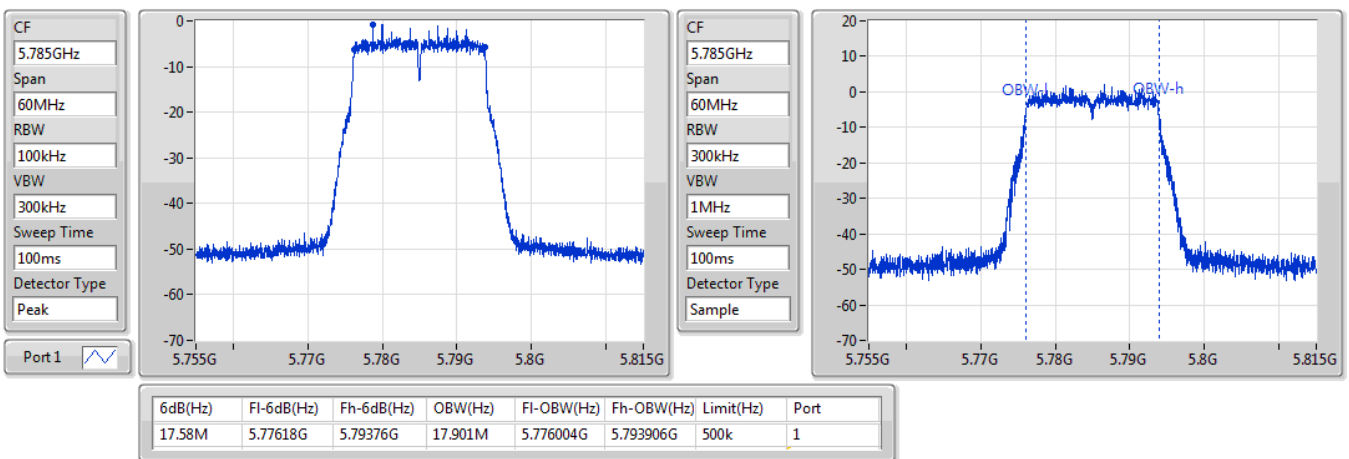


802.11ac VHT20_Nss1,(MCS0)_1TX
EBW
5745MHz

06/04/2021

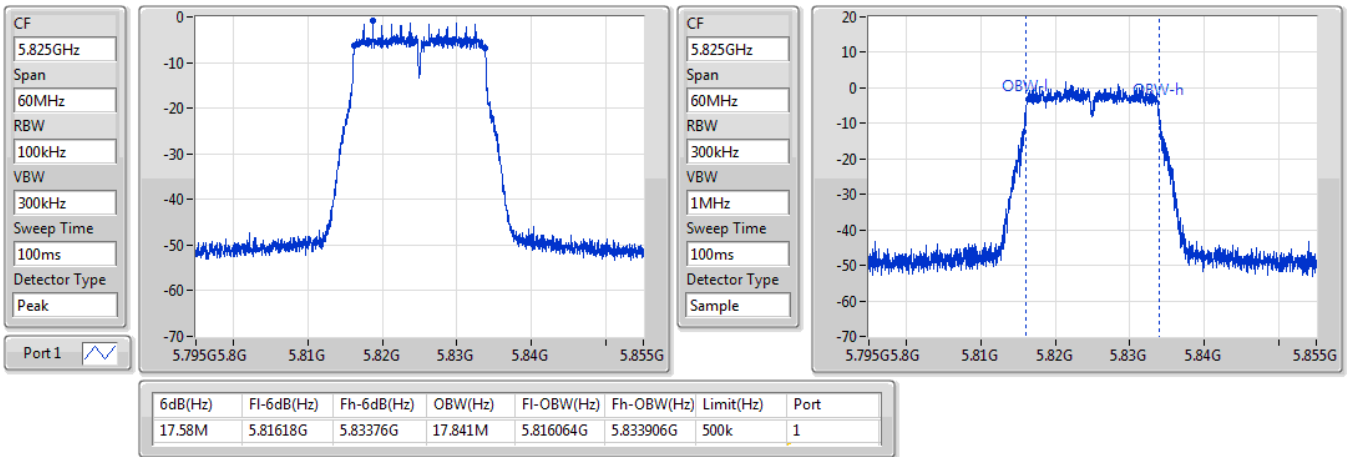

802.11ac VHT20_Nss1,(MCS0)_1TX
EBW
5785MHz

06/04/2021

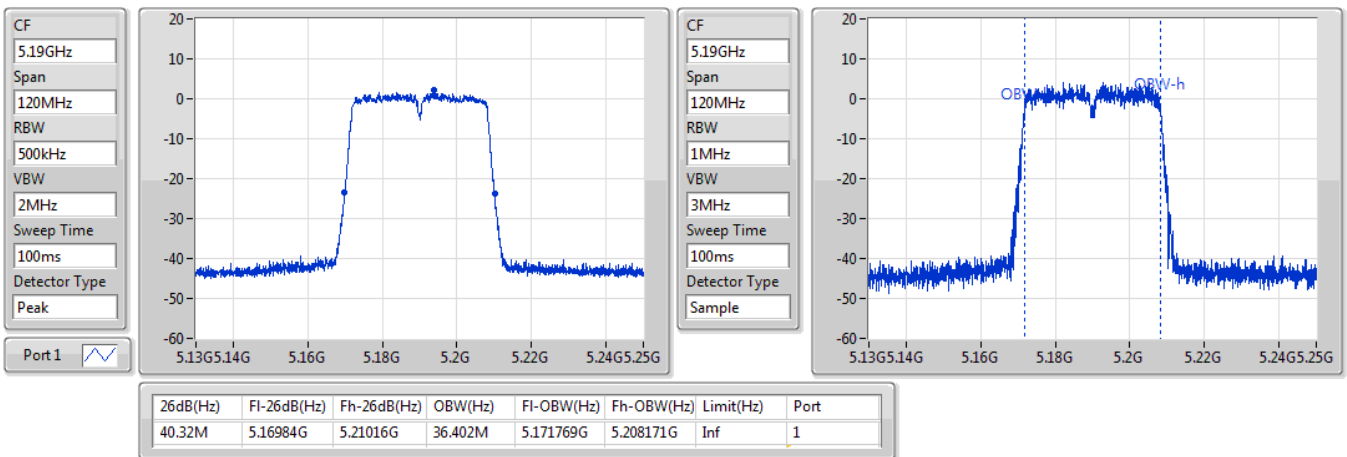


802.11ac VHT20_Nss1,(MCS0)_1TX
EBW
5825MHz

06/04/2021

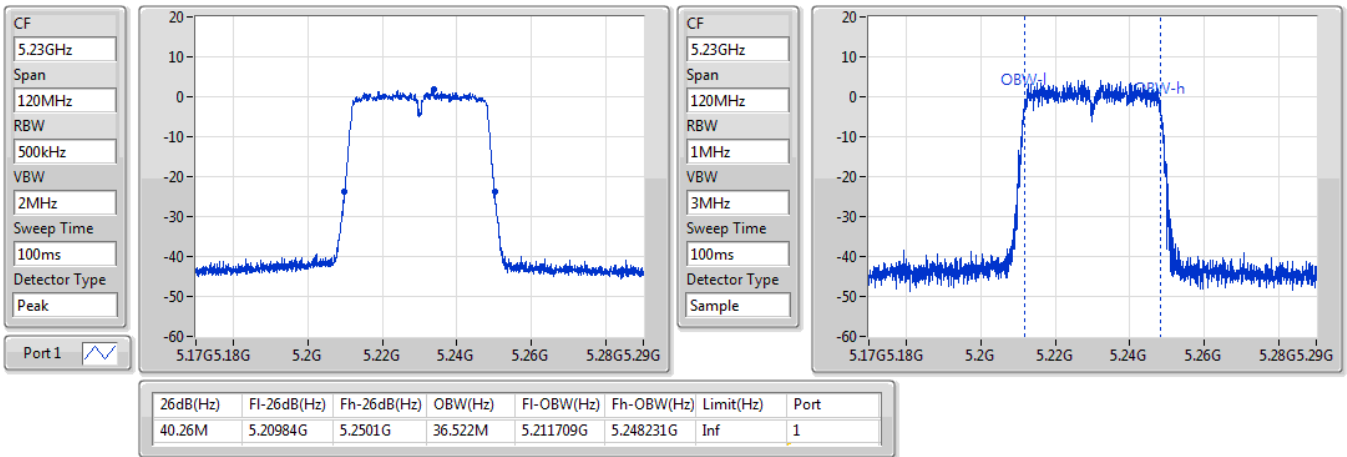

802.11ac VHT40_Nss1,(MCS0)_1TX
EBW
5190MHz

06/04/2021

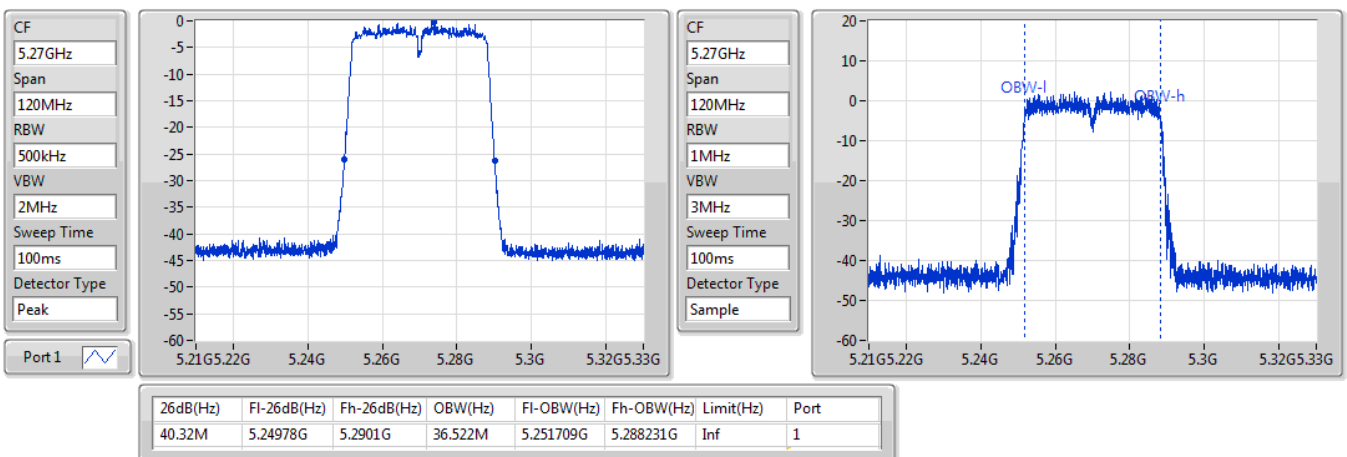


802.11ac VHT40_Nss1,(MCS0)_1TX
EBW
5230MHz

06/04/2021

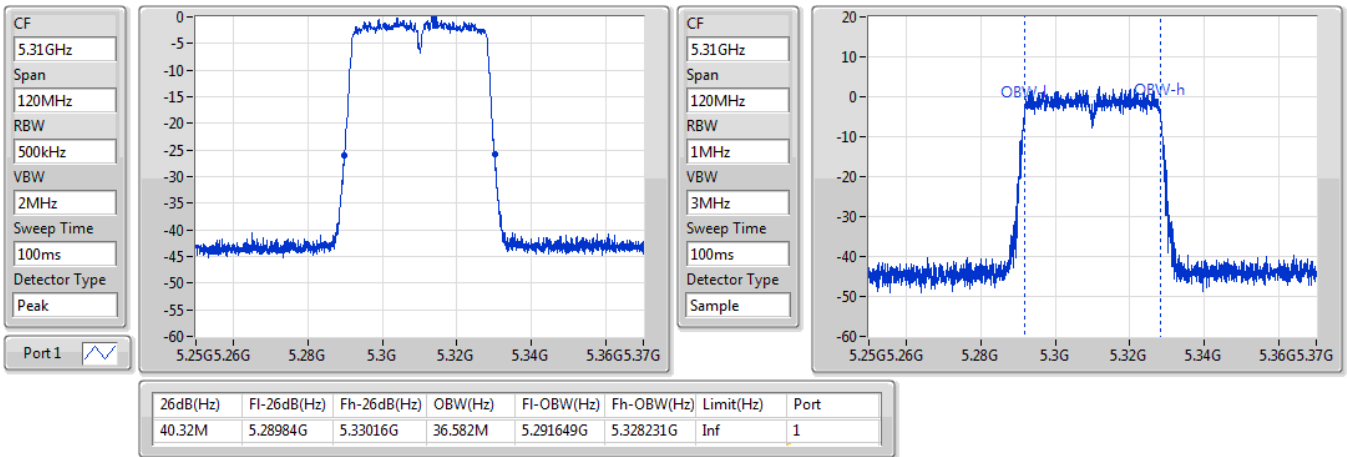

802.11ac VHT40_Nss1,(MCS0)_1TX
EBW
5270MHz

06/04/2021

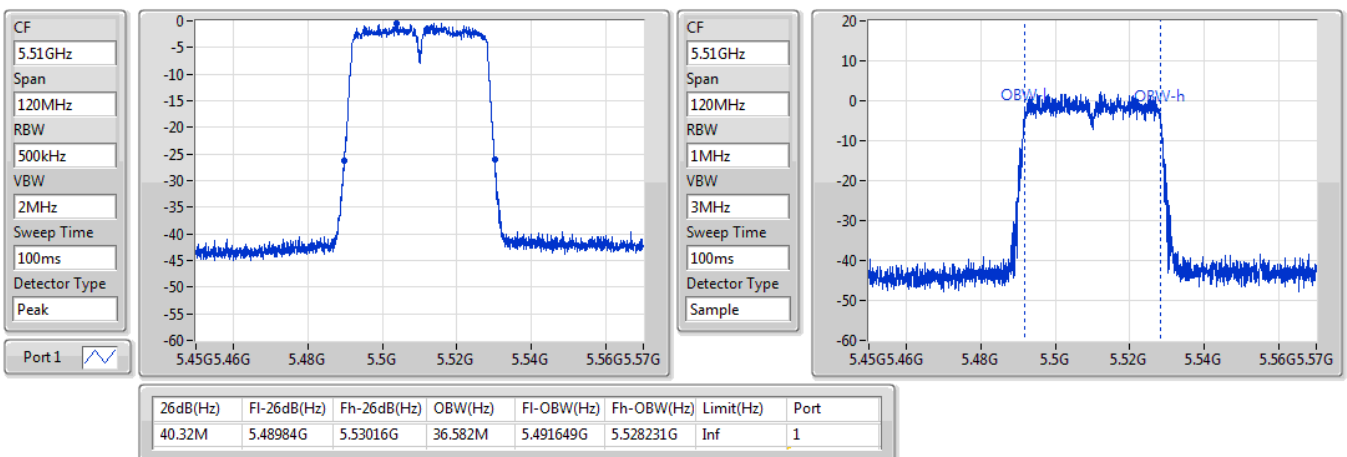


802.11ac VHT40_Nss1,(MCS0)_1TX
EBW
5310MHz

06/04/2021

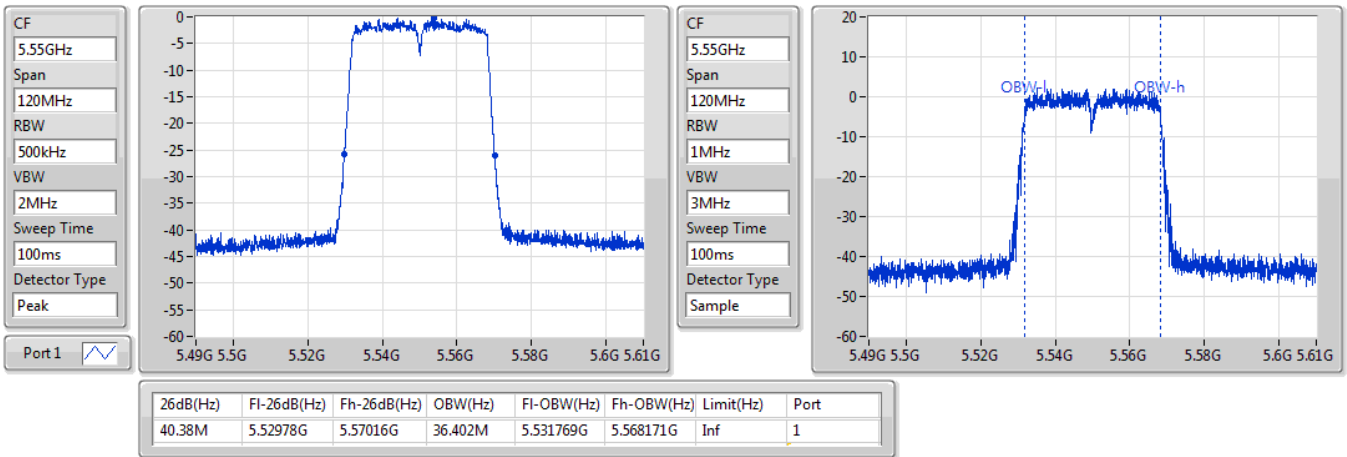

802.11ac VHT40_Nss1,(MCS0)_1TX
EBW
5510MHz

06/04/2021

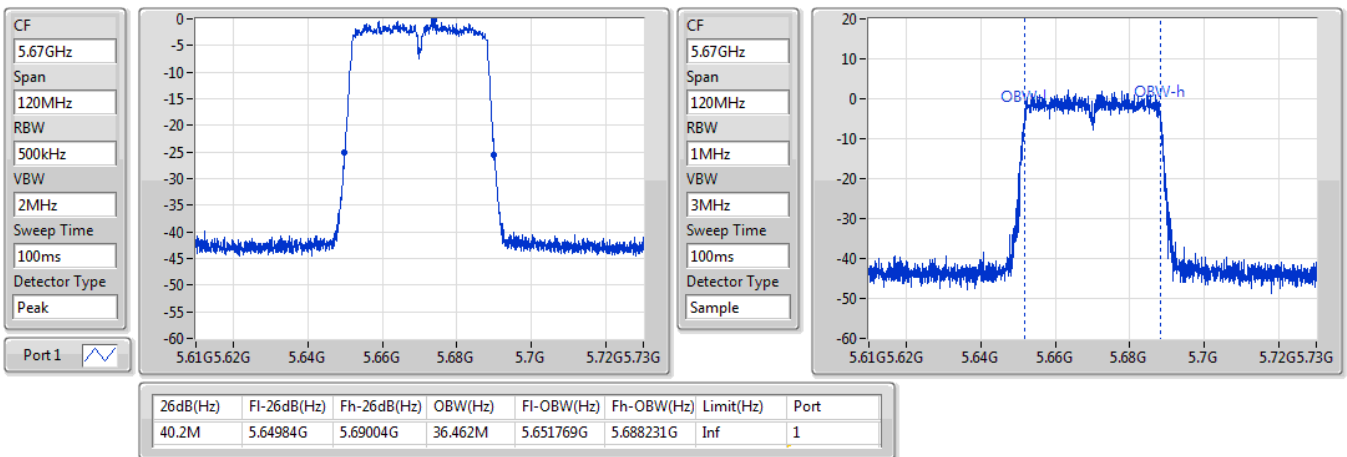


802.11ac VHT40_Nss1,(MCS0)_1TX
EBW
5550MHz

06/04/2021

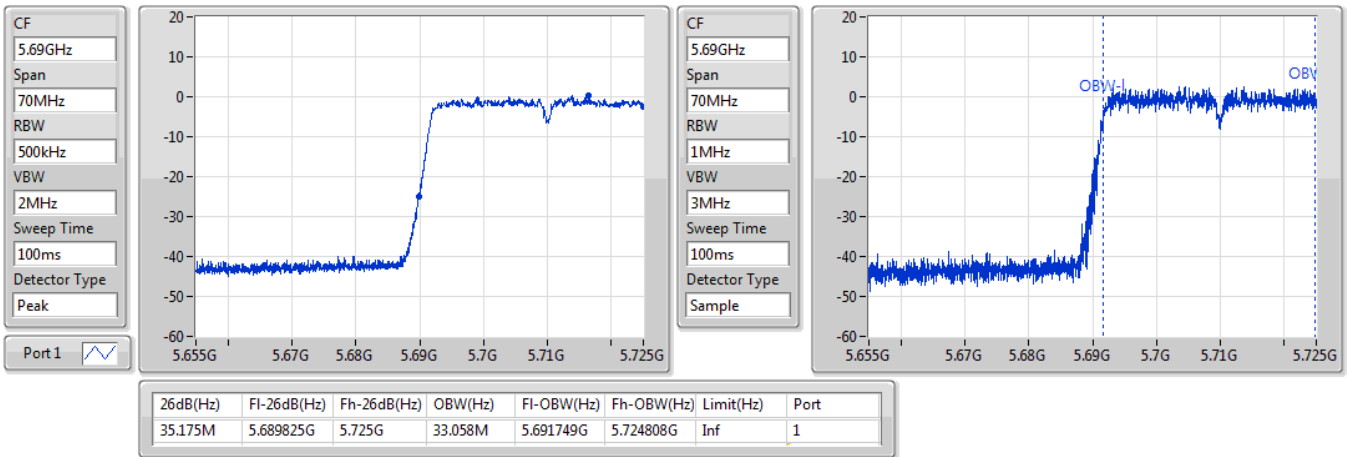

802.11ac VHT40_Nss1,(MCS0)_1TX
EBW
5670MHz

06/04/2021

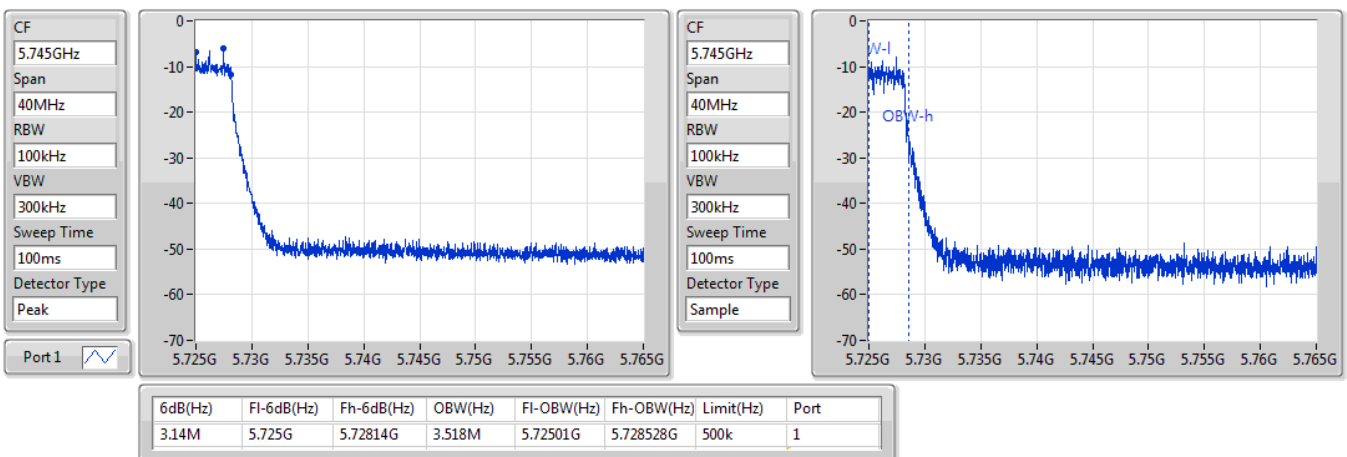


802.11ac VHT40_Nss1,(MCS0)_1TX
EBW
5710MHz Straddle 5.67-5.725GHz

06/04/2021

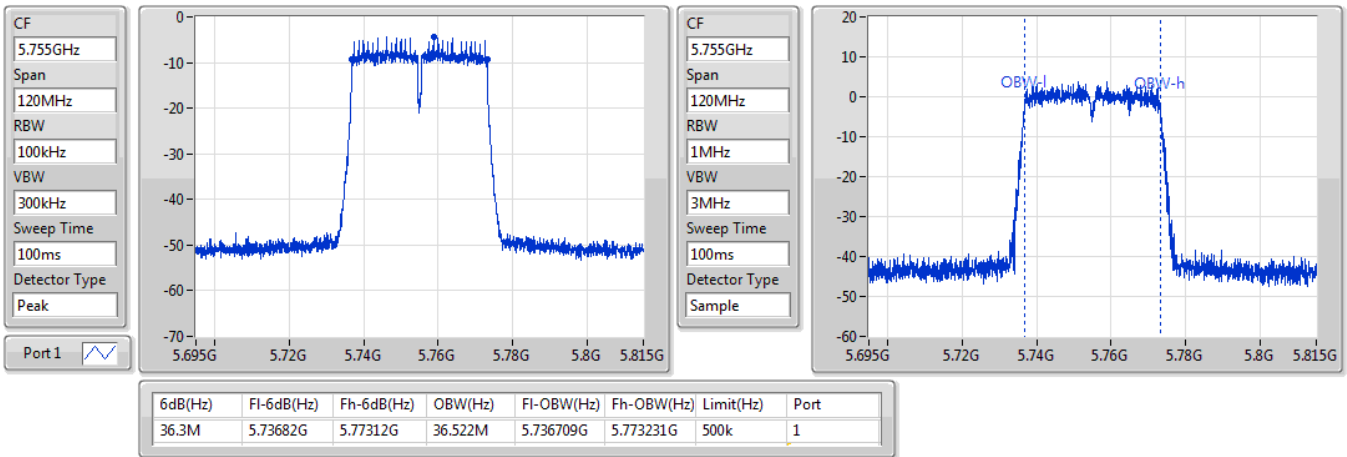

802.11ac VHT40_Nss1,(MCS0)_1TX
EBW
5710MHz Straddle 5.725-5.85GHz

06/04/2021

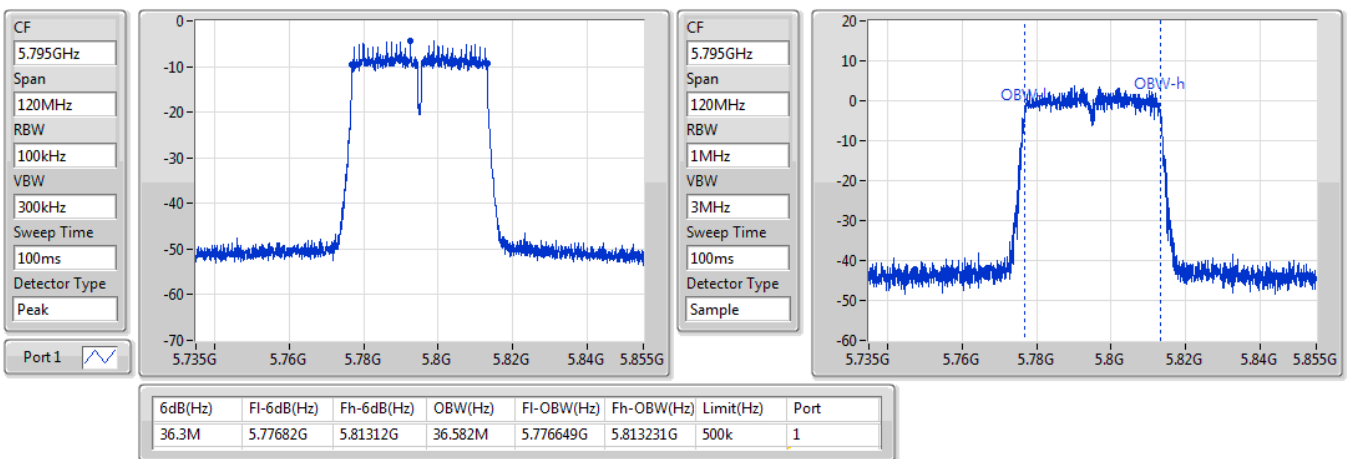


802.11ac VHT40_Nss1,(MCS0)_1TX
EBW
5755MHz

06/04/2021

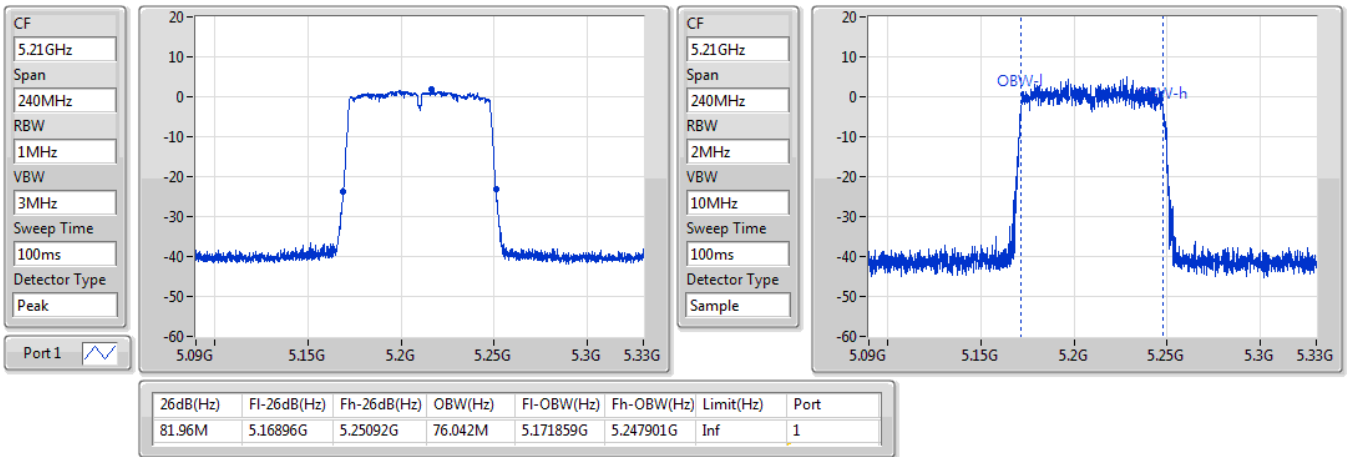

802.11ac VHT40_Nss1,(MCS0)_1TX
EBW
5795MHz

06/04/2021

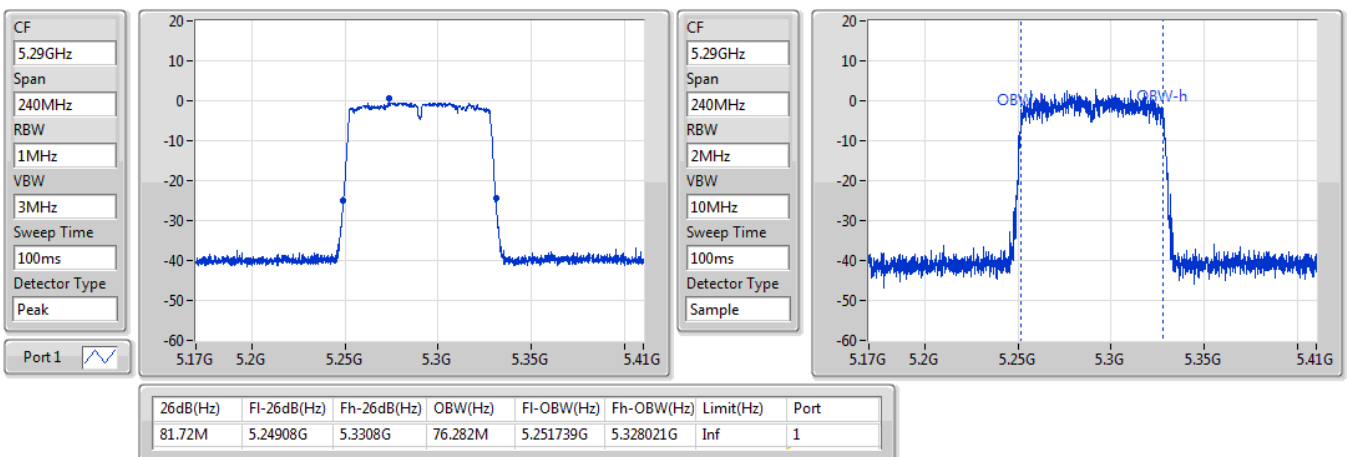


802.11ac VHT80_Nss1,(MCS0)_1TX
EBW
5210MHz

06/04/2021

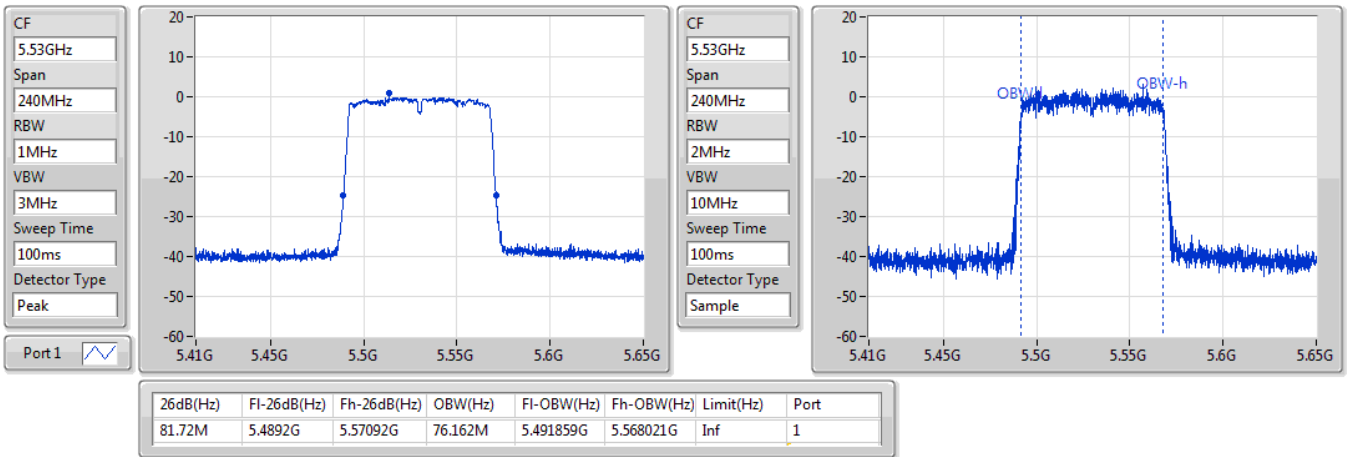

802.11ac VHT80_Nss1,(MCS0)_1TX
EBW
5290MHz

06/04/2021

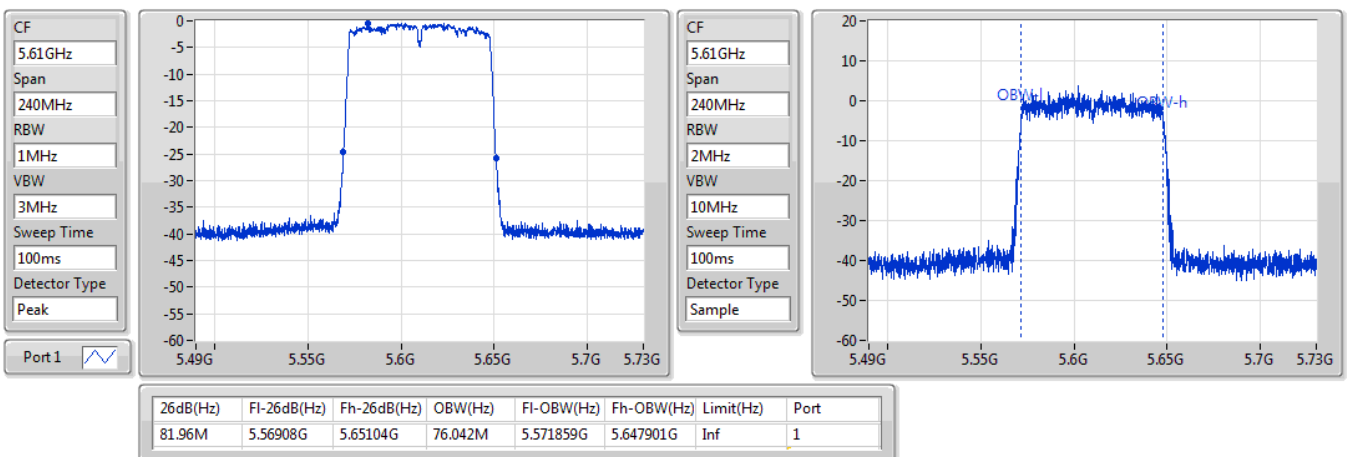


802.11ac VHT80_Nss1,(MCS0)_1TX
EBW
5530MHz

06/04/2021

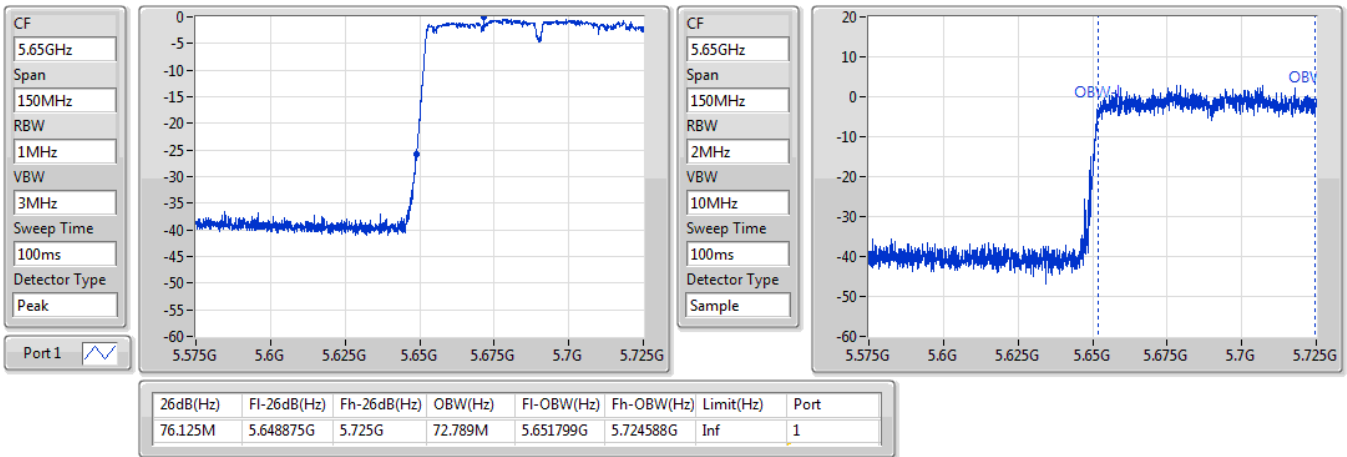

802.11ac VHT80_Nss1,(MCS0)_1TX
EBW
5610MHz

06/04/2021

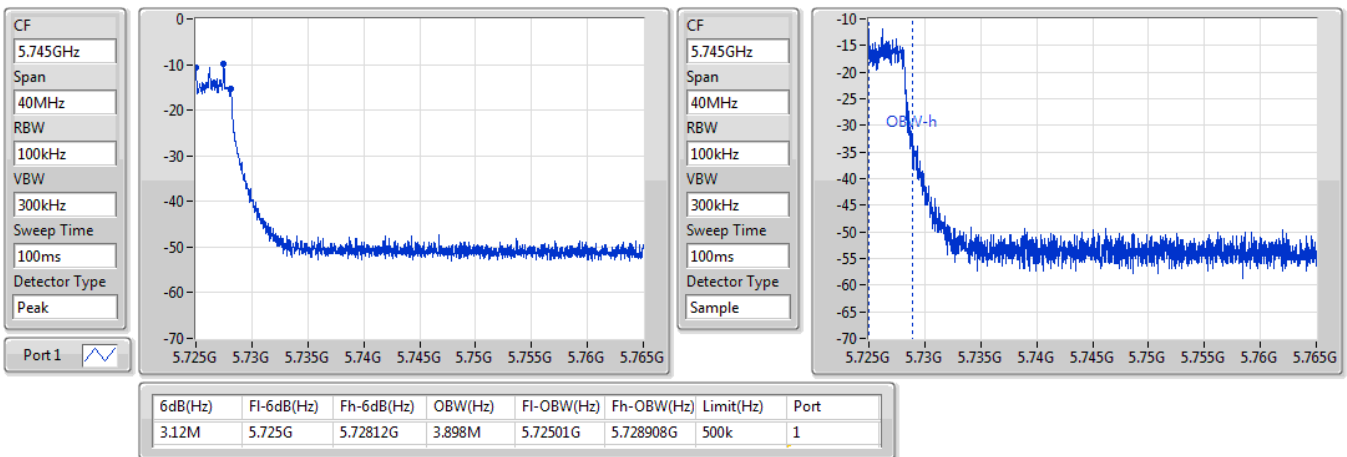


802.11ac VHT80_Nss1,(MCS0)_1TX
EBW
5690MHz Straddle 5.47-5.725GHz

06/04/2021

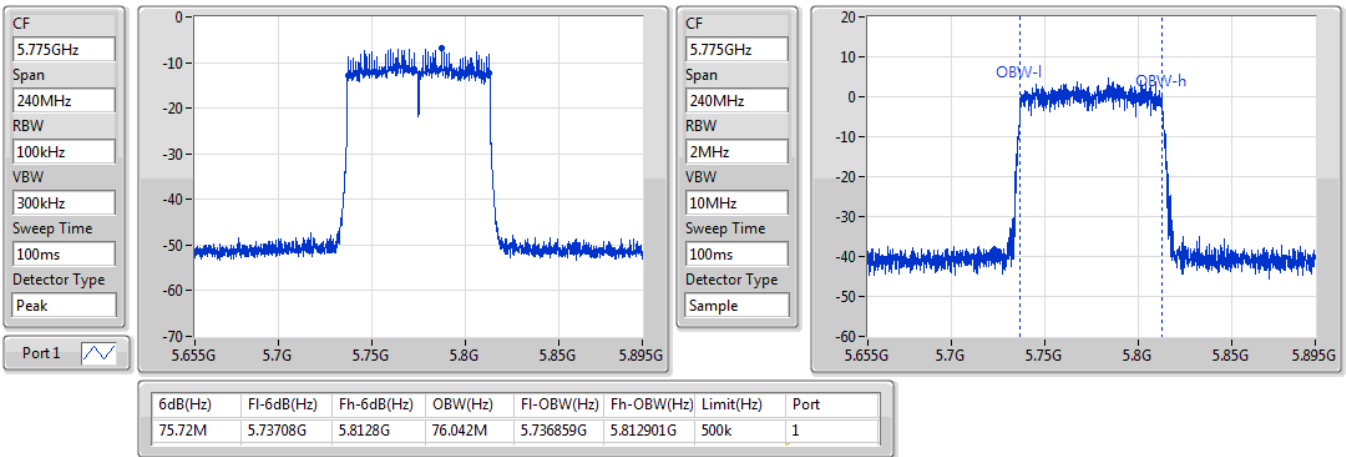

802.11ac VHT80_Nss1,(MCS0)_1TX
EBW
5690MHz Straddle 5.725-5.85GHz

06/04/2021

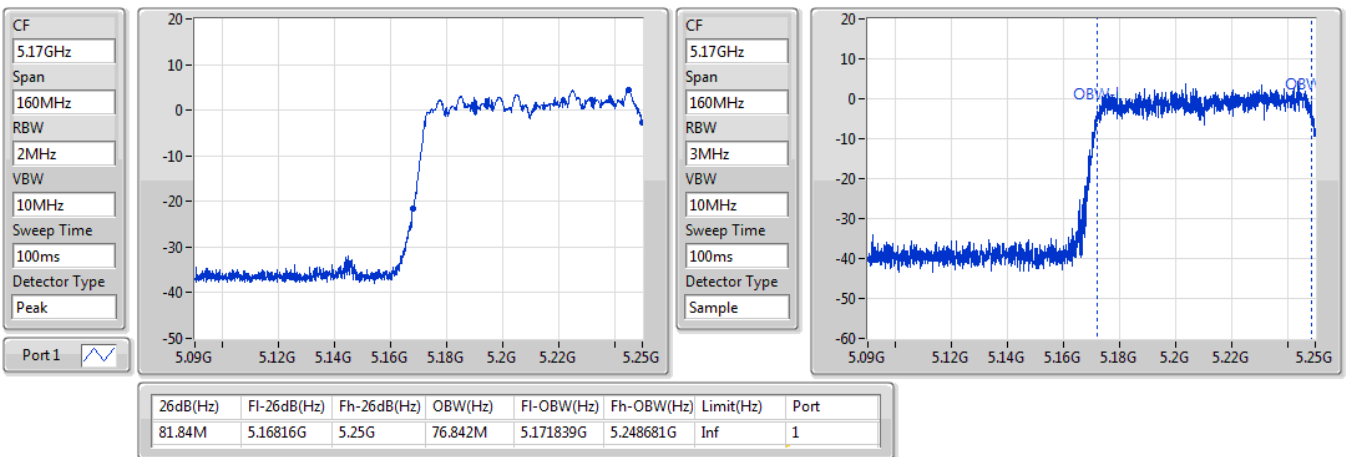


802.11ac VHT80_Nss1,(MCS0)_1TX
EBW
5775MHz

06/04/2021

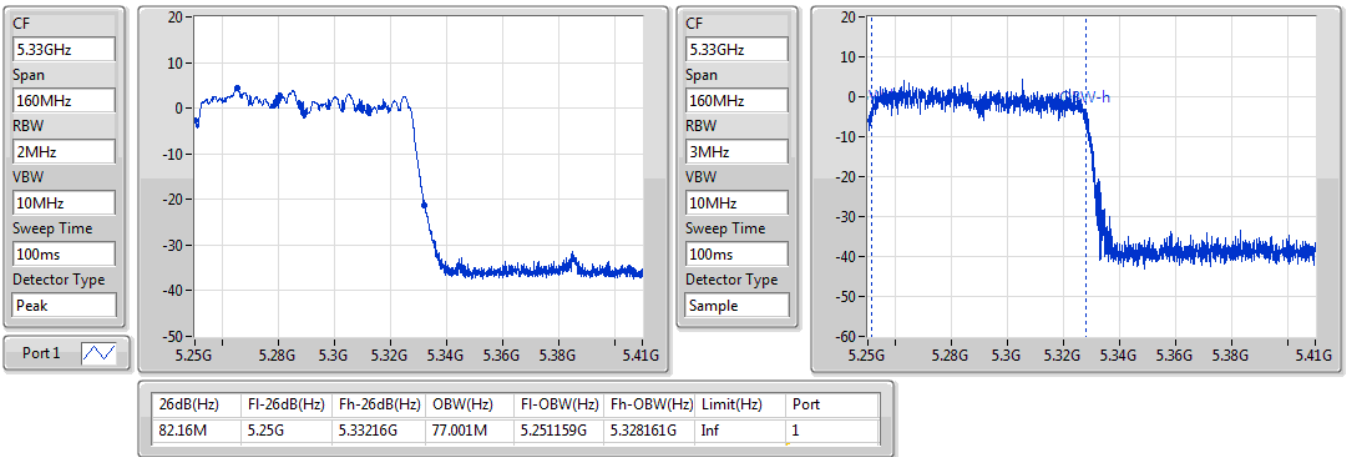

802.11ac VHT160_Nss1,(MCS0)_1TX
EBW
5250MHz Straddle 5.15-5.25GHz

06/04/2021

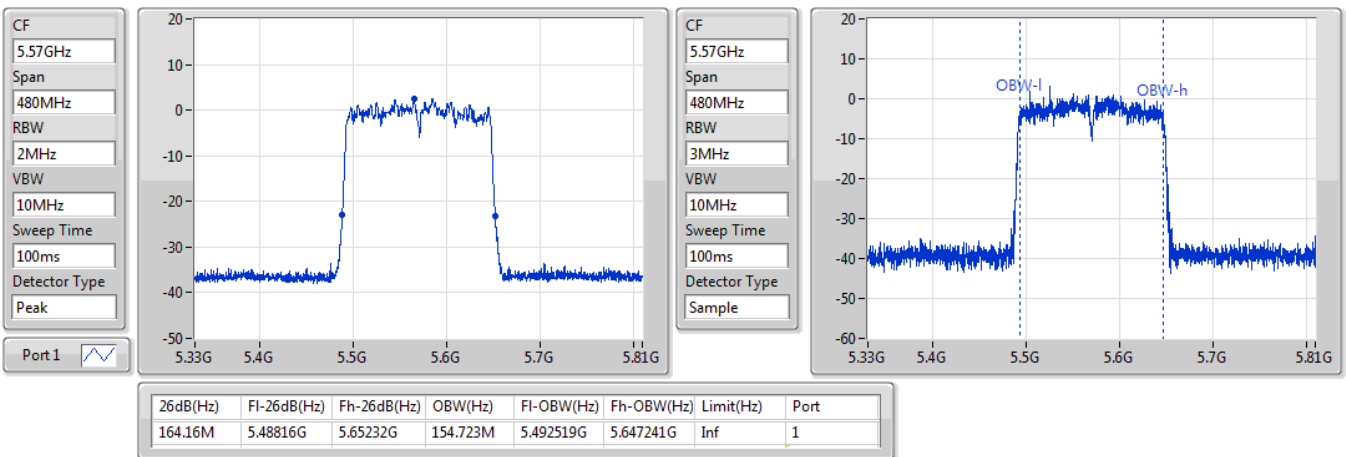


802.11ac VHT160_Nss1,(MCS0)_1TX
EBW
5250MHz Straddle 5.25-5.35GHz

06/04/2021

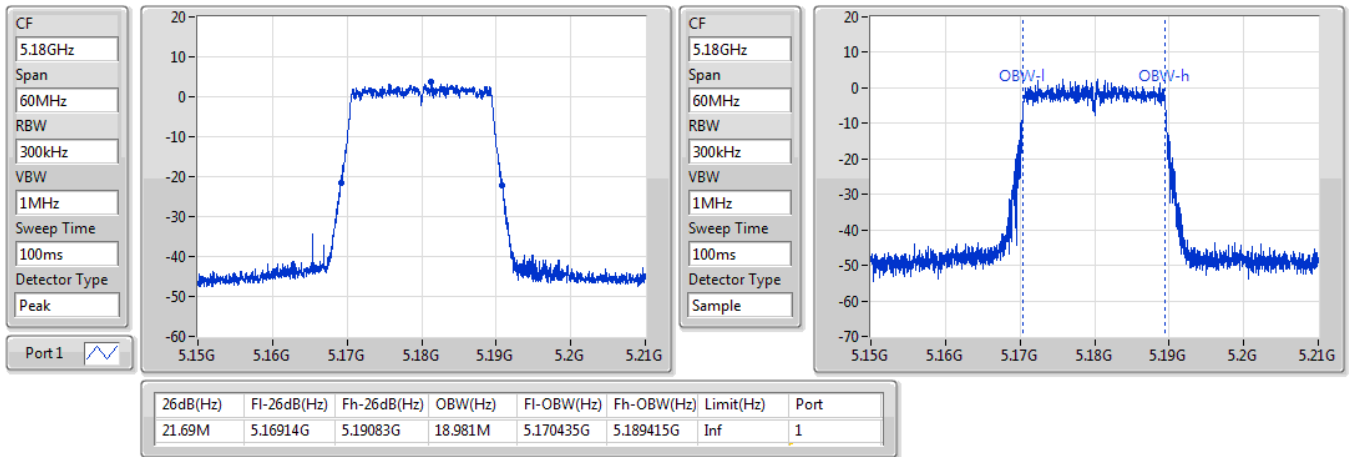

802.11ac VHT160_Nss1,(MCS0)_1TX
EBW
5570MHz

06/04/2021

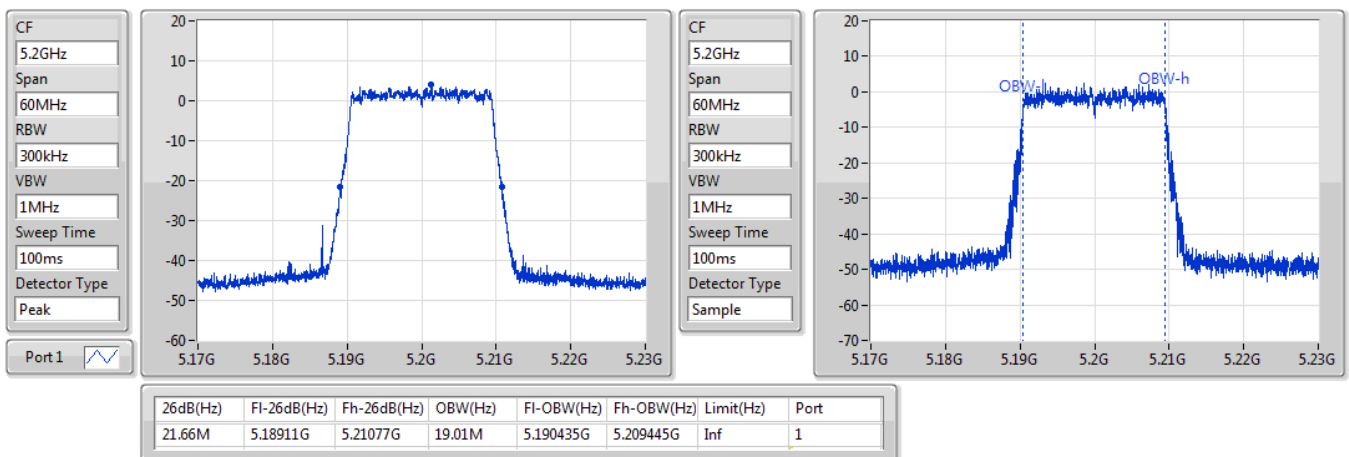


802.11ax HEW20_Nss1,(MCS0)_1TX
EBW
5180MHz

06/04/2021

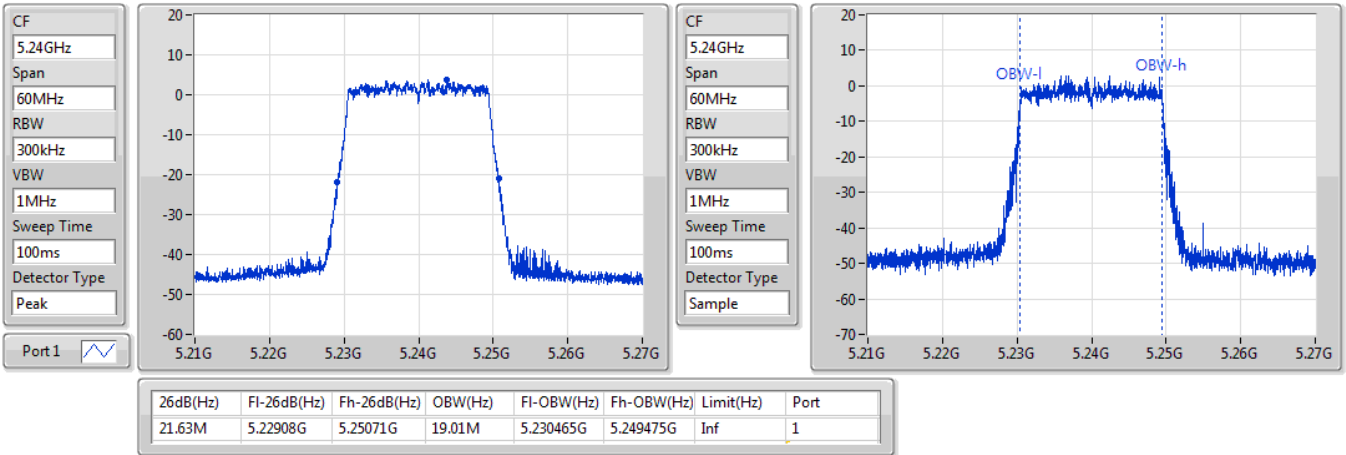

802.11ax HEW20_Nss1,(MCS0)_1TX
EBW
5200MHz

06/04/2021

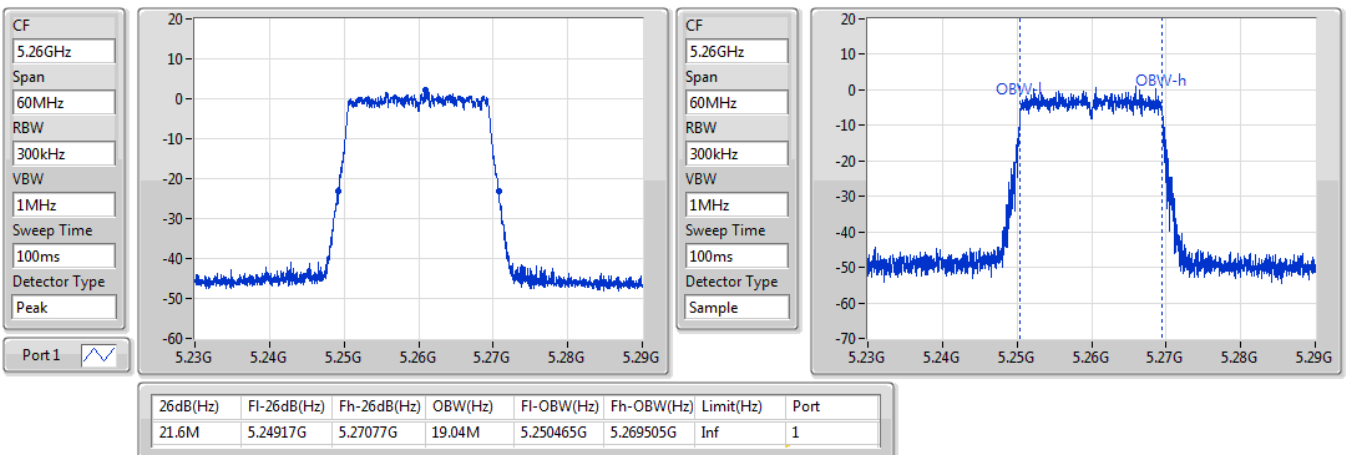


802.11ax HEW20_Nss1,(MCS0)_1TX
EBW
5240MHz

06/04/2021

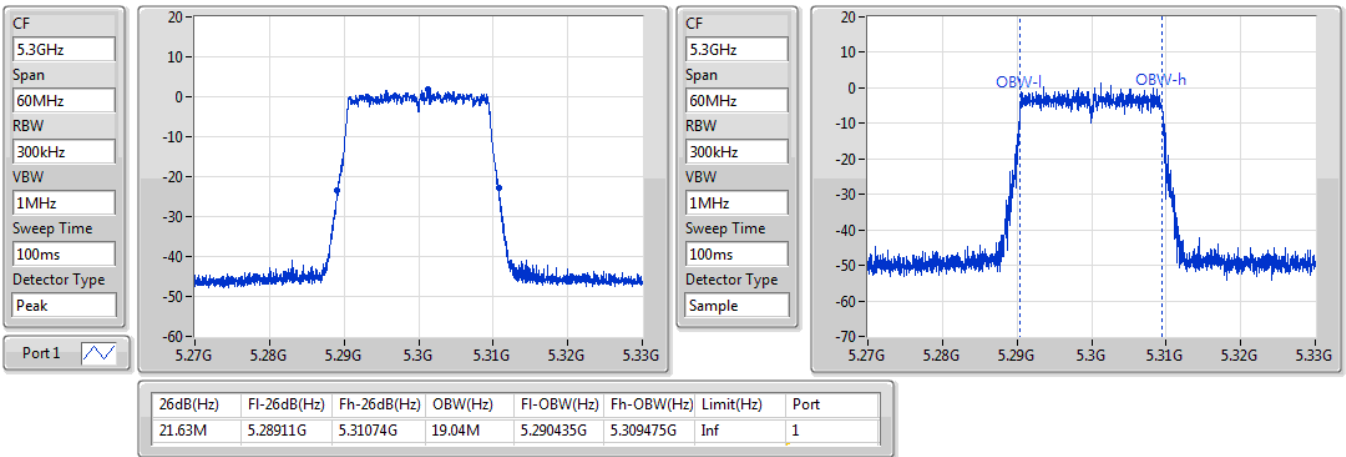

802.11ax HEW20_Nss1,(MCS0)_1TX
EBW
5260MHz

06/04/2021

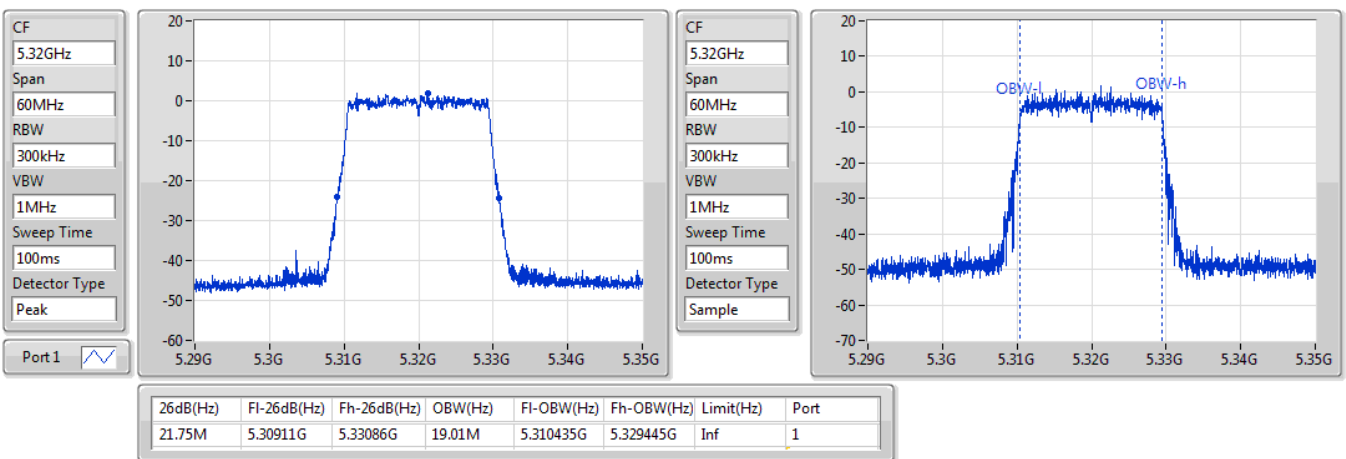


802.11ax HEW20_Nss1,(MCS0)_1TX
EBW
5300MHz

06/04/2021

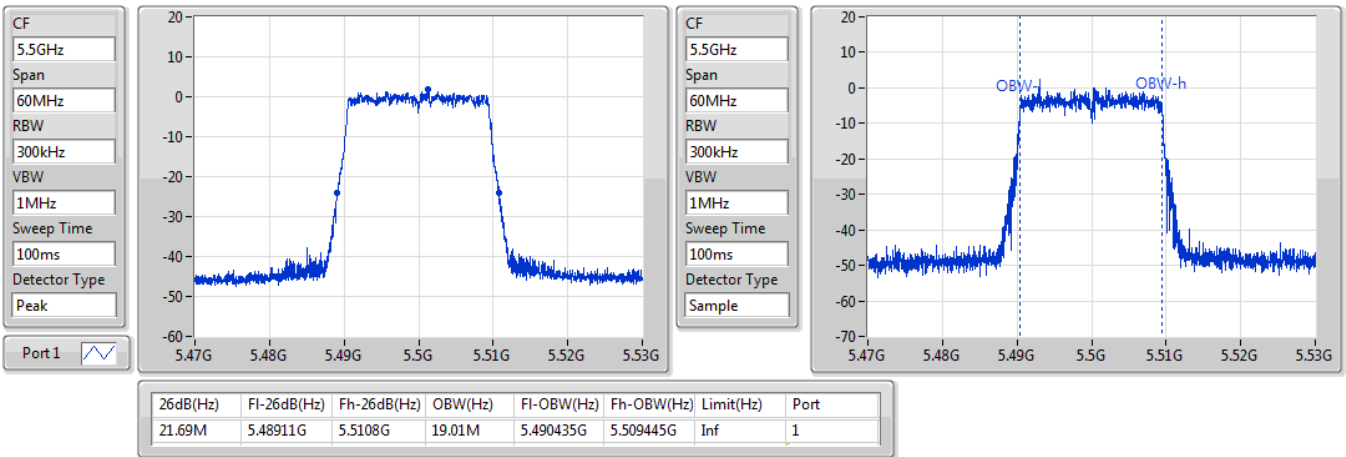

802.11ax HEW20_Nss1,(MCS0)_1TX
EBW
5320MHz

06/04/2021

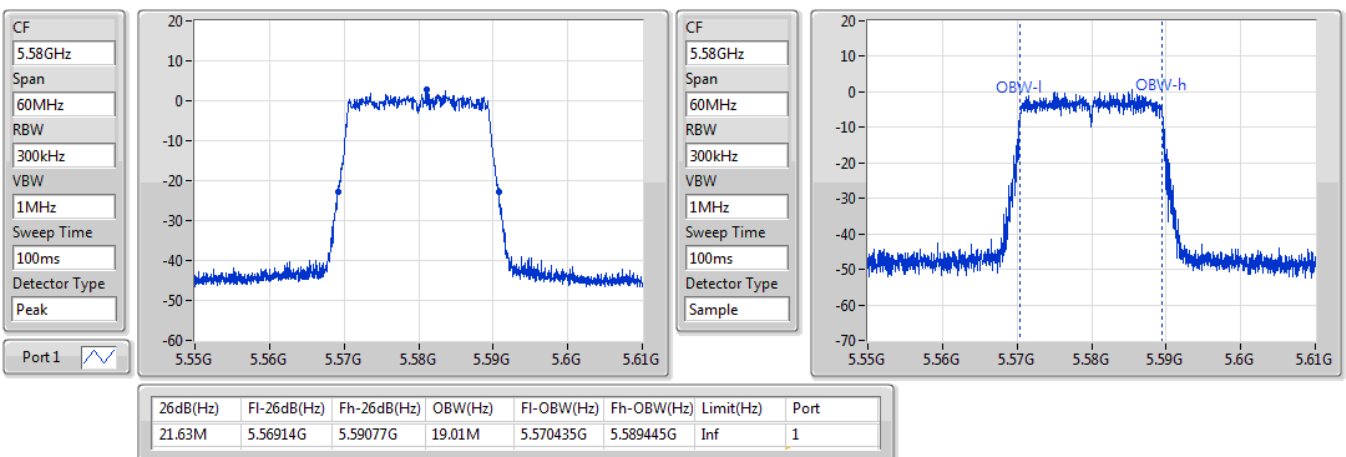


802.11ax HEW20_Nss1,(MCS0)_1TX
EBW
5500MHz

06/04/2021

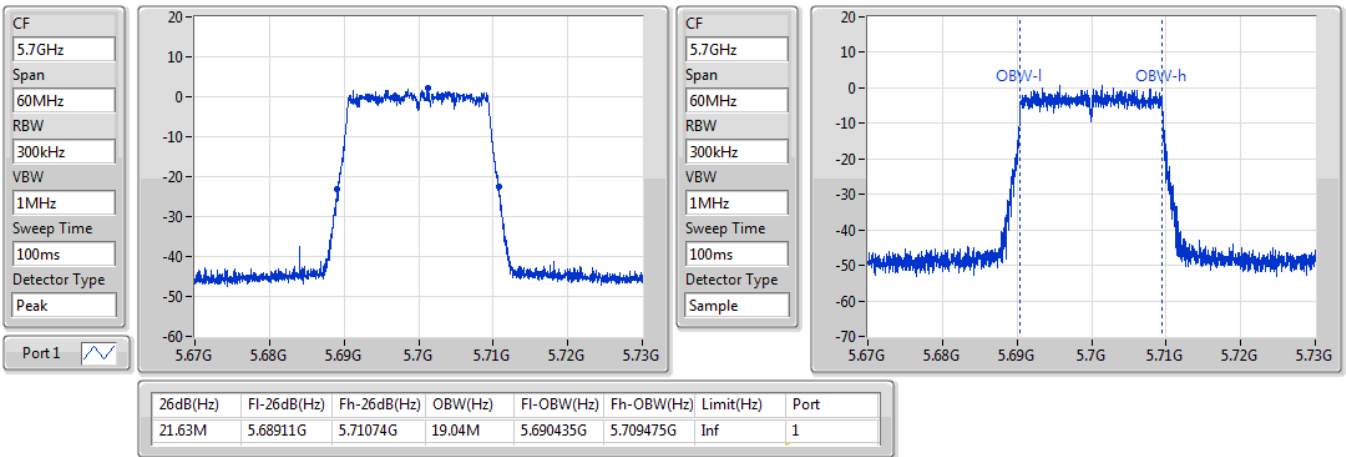

802.11ax HEW20_Nss1,(MCS0)_1TX
EBW
5580MHz

06/04/2021

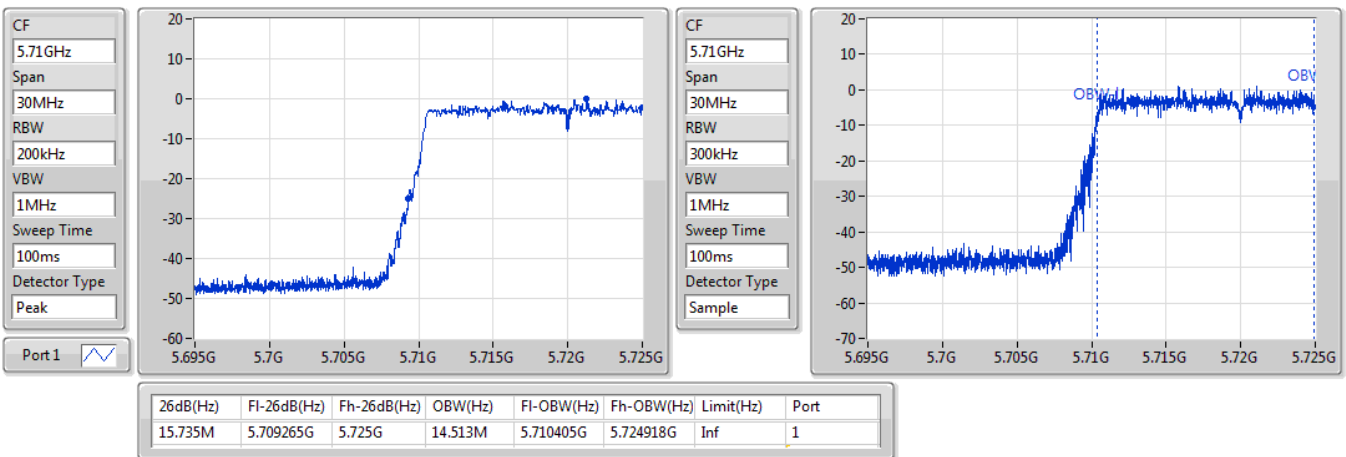


802.11ax HEW20_Nss1,(MCS0)_1TX
EBW
5700MHz

06/04/2021

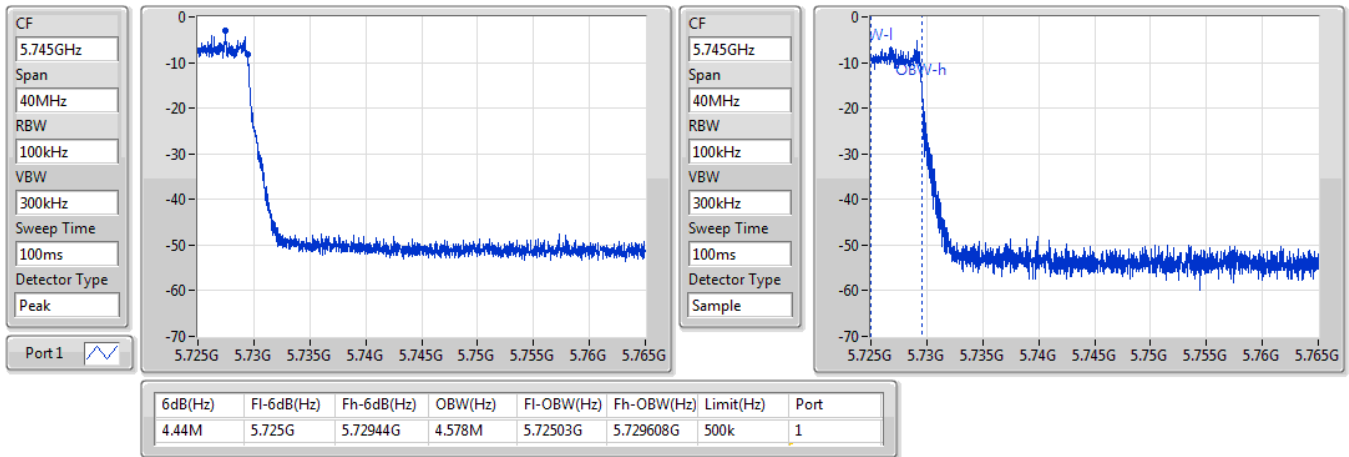

802.11ax HEW20_Nss1,(MCS0)_1TX
EBW
5720MHz Straddle 5.67-5.725GHz

06/04/2021

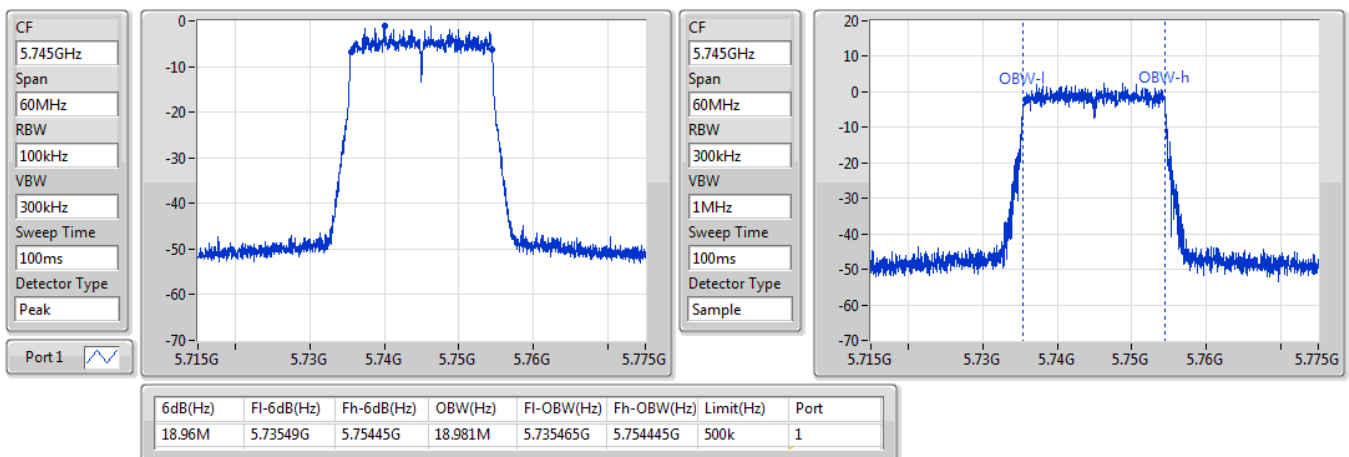


802.11ax HEW20_Nss1,(MCS0)_1TX
EBW
5720MHz Straddle 5.725-5.85GHz

06/04/2021

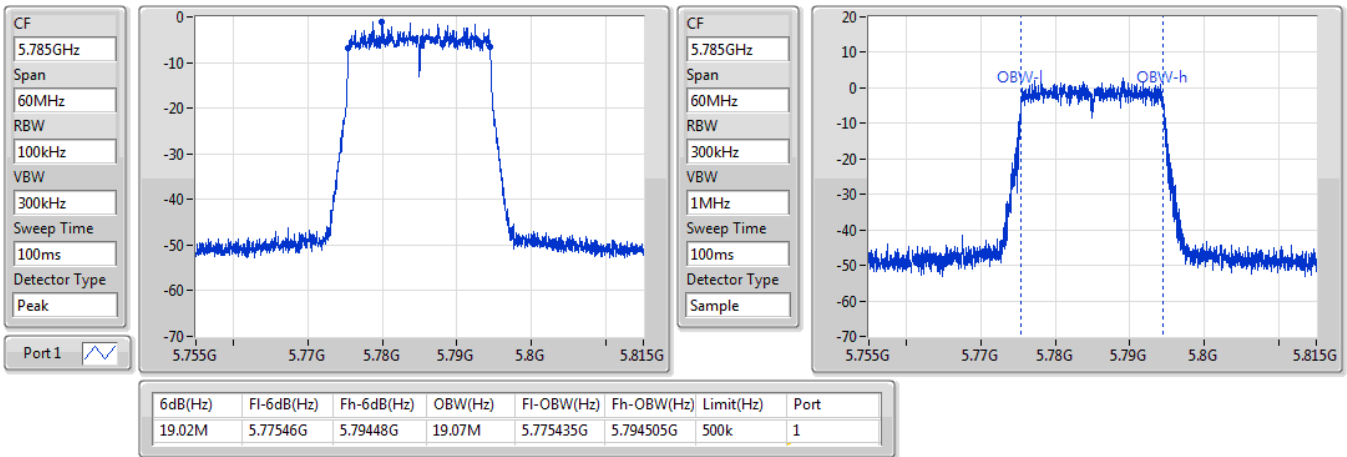

802.11ax HEW20_Nss1,(MCS0)_1TX
EBW
5745MHz

06/04/2021

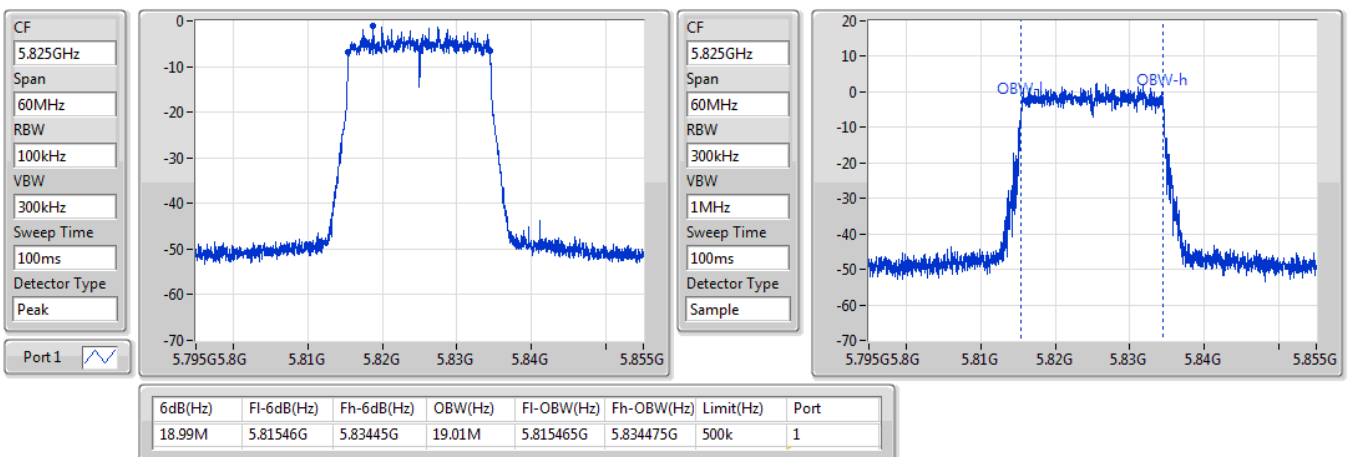


802.11ax HEW20_Nss1,(MCS0)_1TX
EBW
5785MHz

06/04/2021

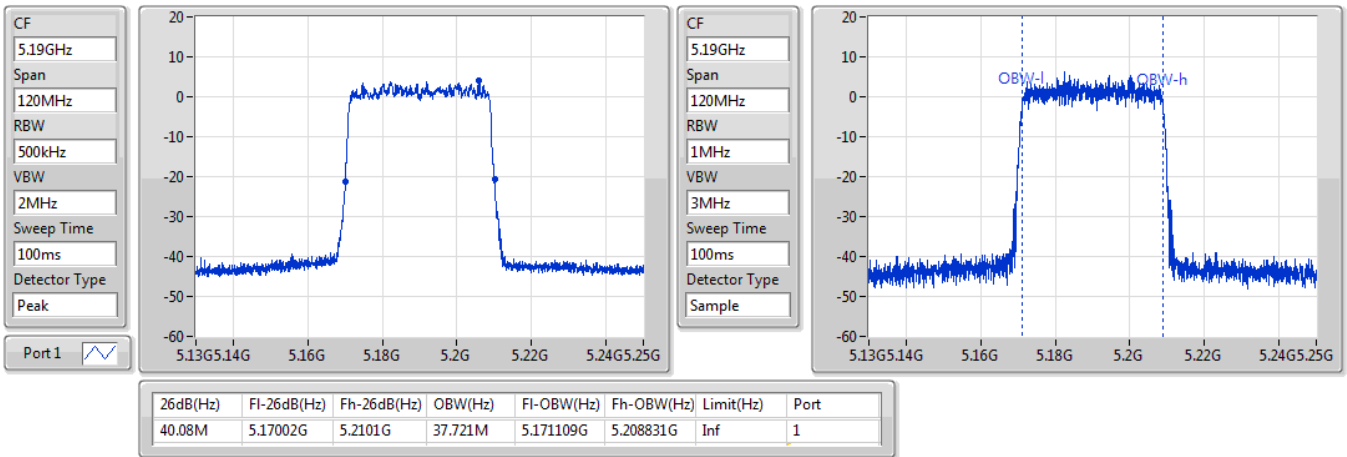

802.11ax HEW20_Nss1,(MCS0)_1TX
EBW
5825MHz

06/04/2021

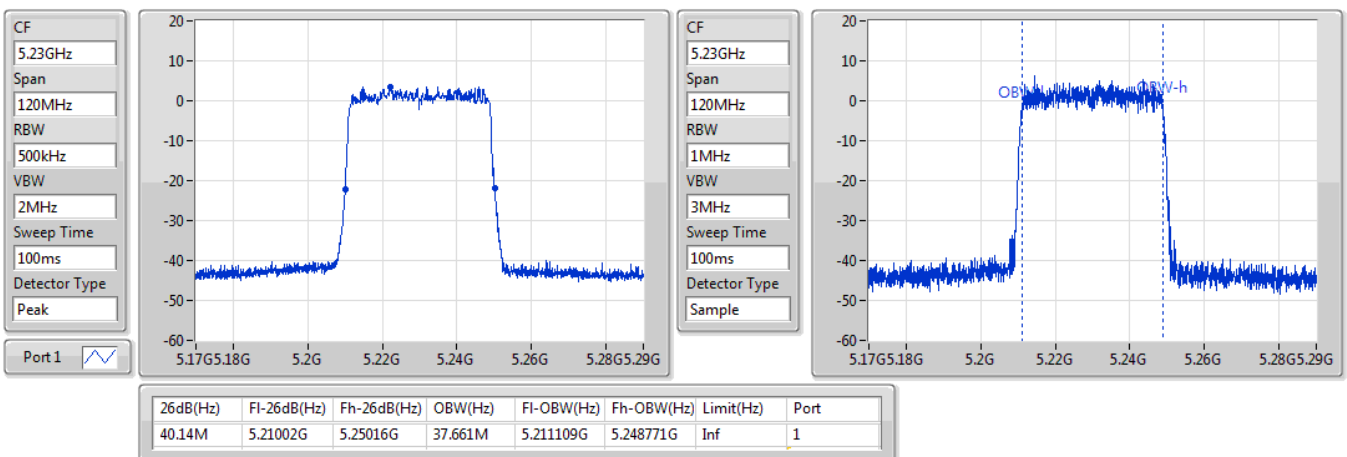


802.11ax HEW40_Nss1,(MCS0)_1TX
EBW
5190MHz

06/04/2021

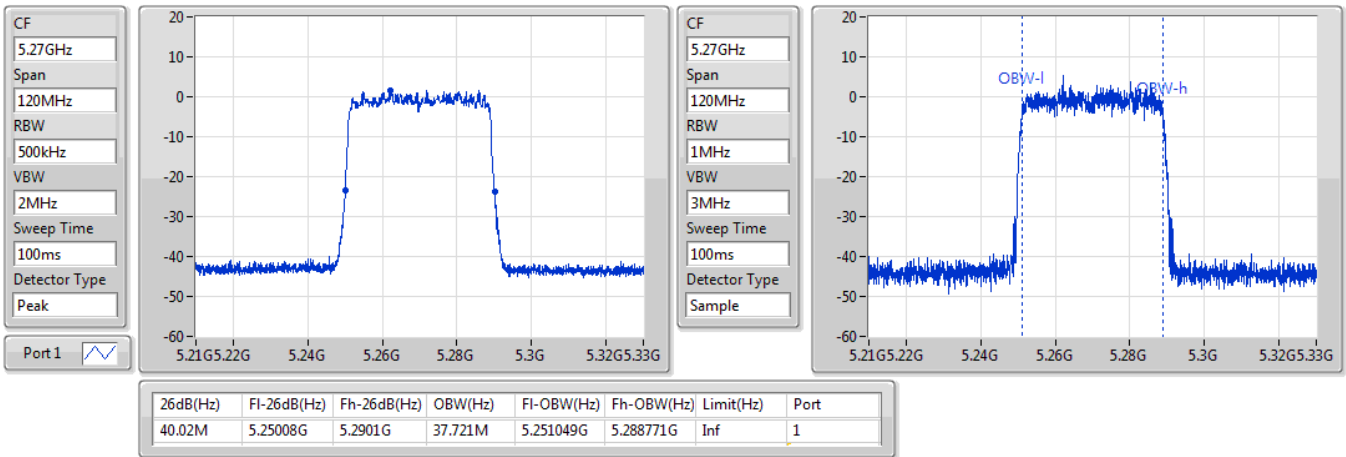

802.11ax HEW40_Nss1,(MCS0)_1TX
EBW
5230MHz

06/04/2021

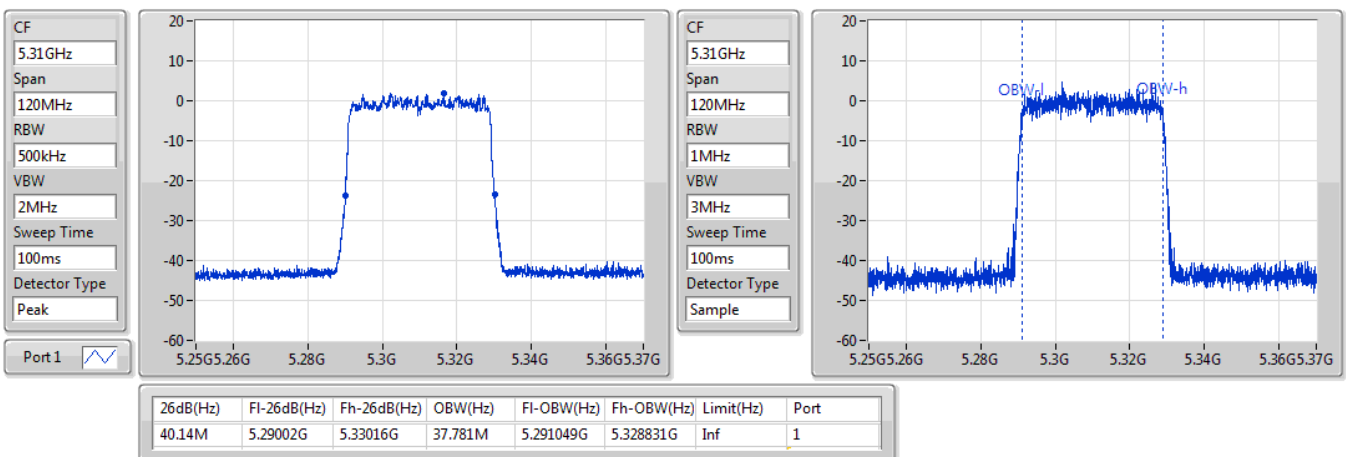


802.11ax HEW40_Nss1,(MCS0)_1TX
EBW
5270MHz

06/04/2021

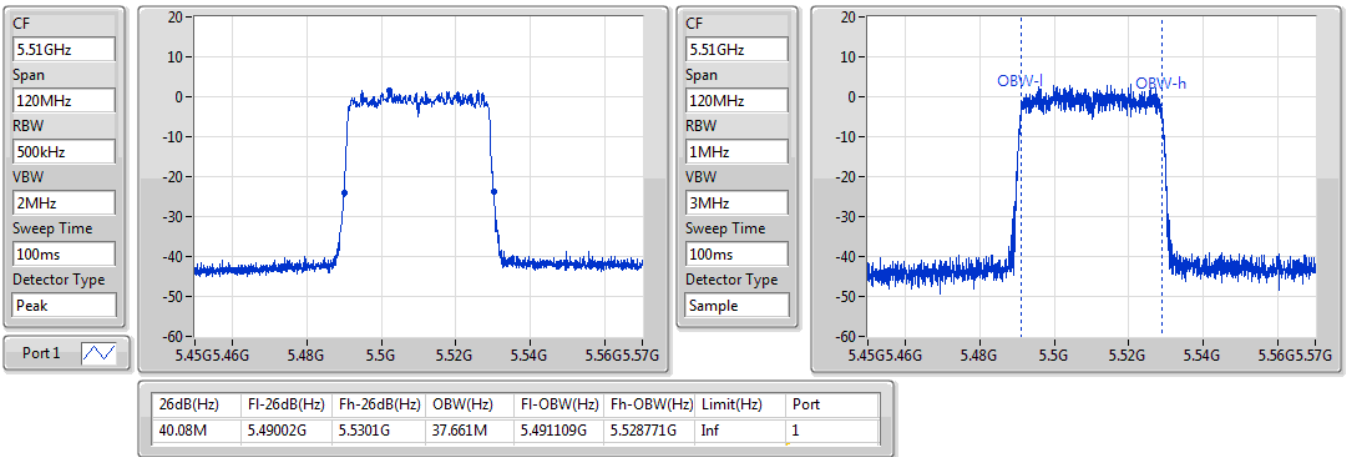

802.11ax HEW40_Nss1,(MCS0)_1TX
EBW
5310MHz

06/04/2021

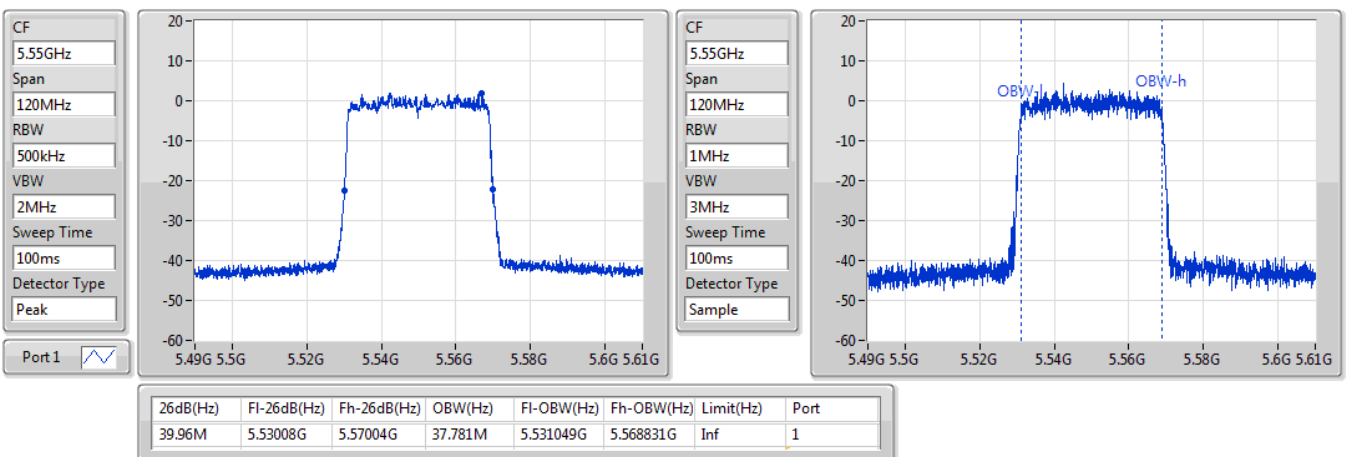


802.11ax HEW40_Nss1,(MCS0)_1TX
EBW
5510MHz

06/04/2021

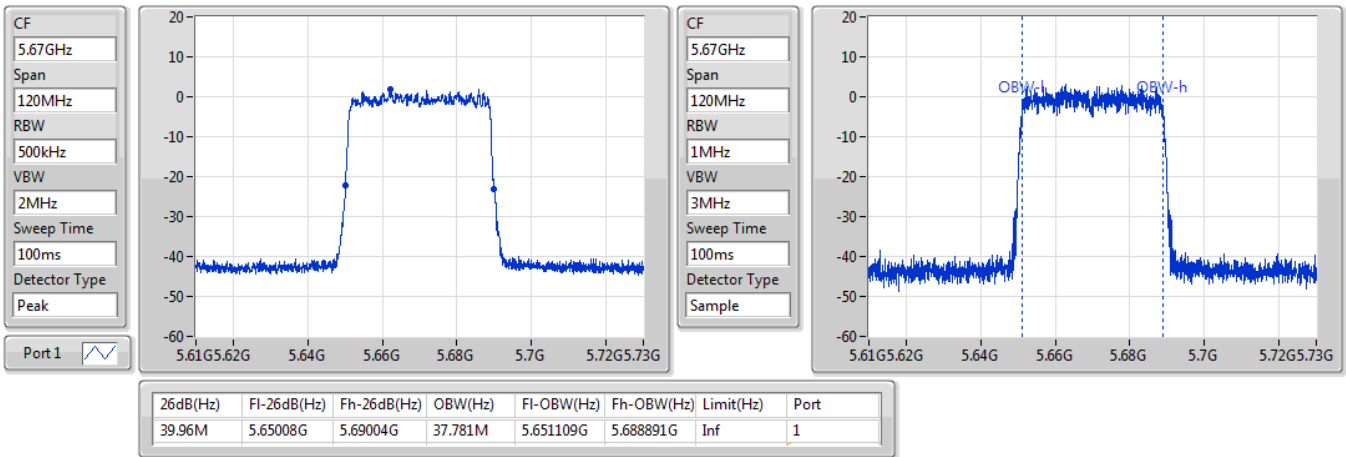

802.11ax HEW40_Nss1,(MCS0)_1TX
EBW
5550MHz

06/04/2021

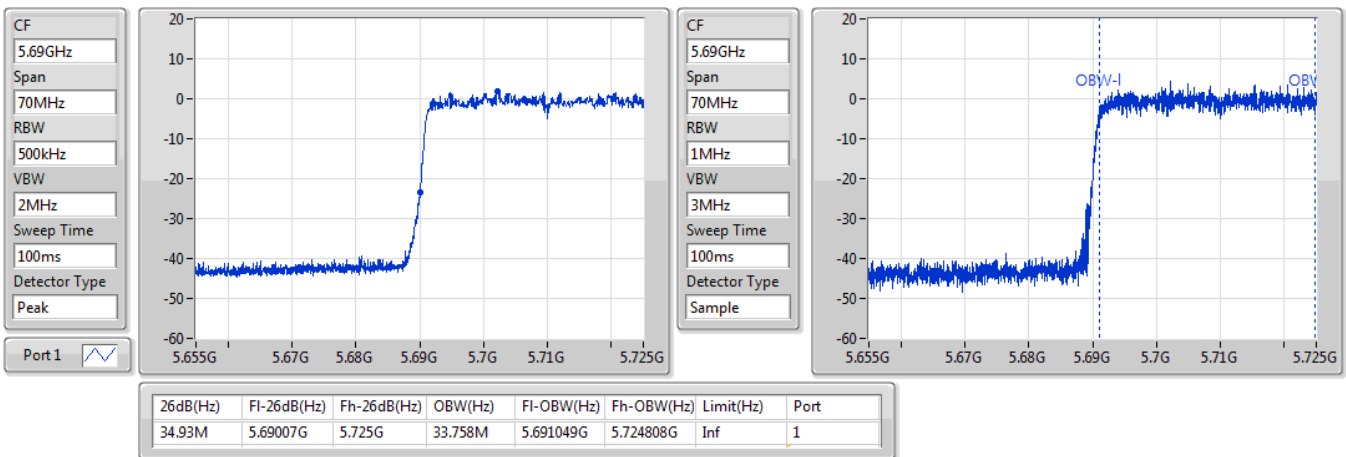


802.11ax HEW40_Nss1,(MCS0)_1TX
EBW
5670MHz

06/04/2021

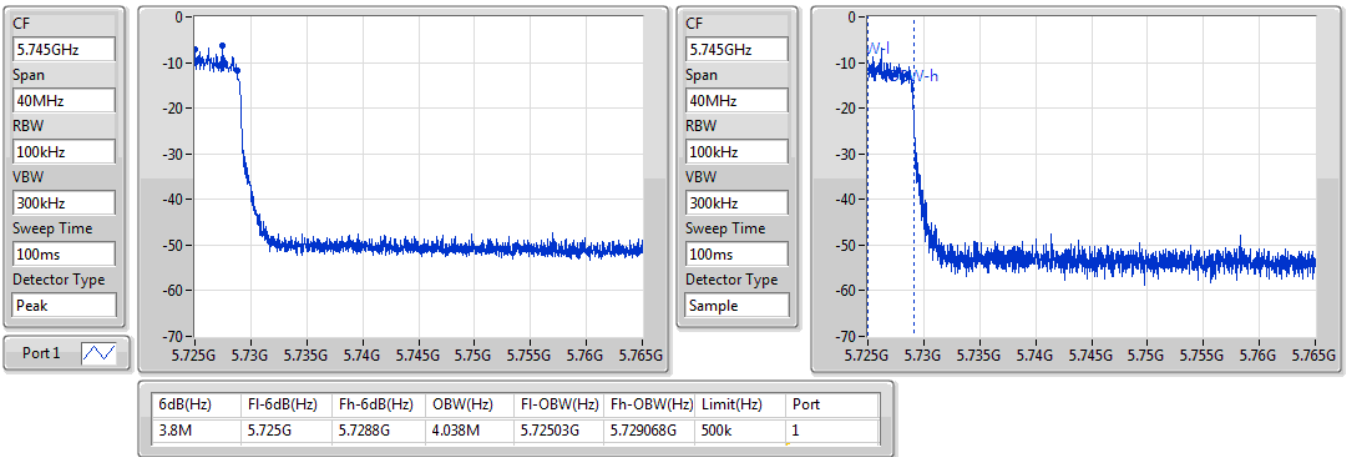

802.11ax HEW40_Nss1,(MCS0)_1TX
EBW
5710MHz Straddle 5.47-5.725GHz

06/04/2021

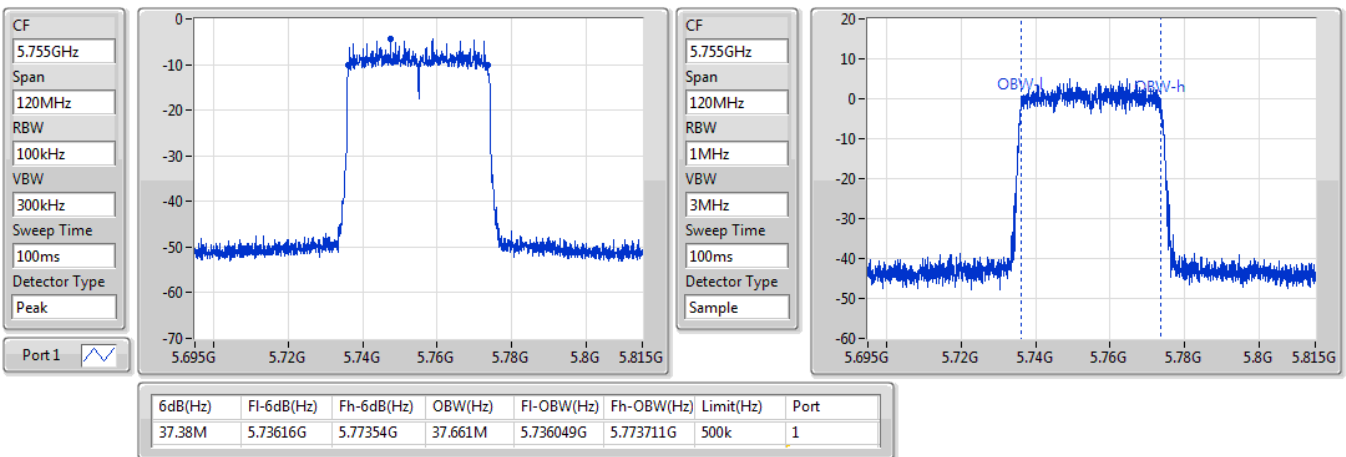


802.11ax HEW40_Nss1,(MCS0)_1TX
EBW
5710MHz Straddle 5.725-5.85GHz

06/04/2021

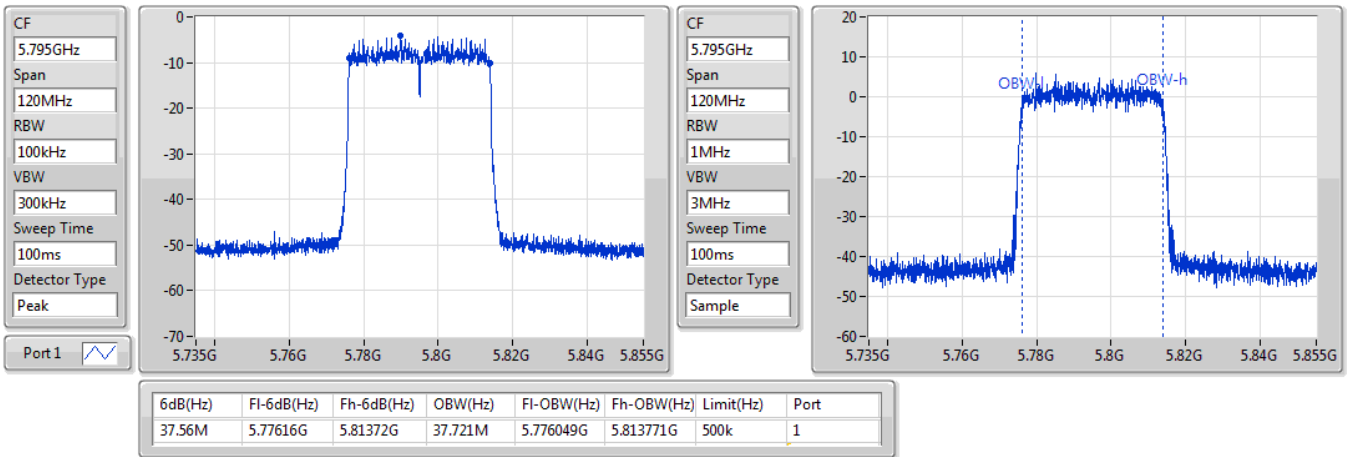

802.11ax HEW40_Nss1,(MCS0)_1TX
EBW
5755MHz

06/04/2021

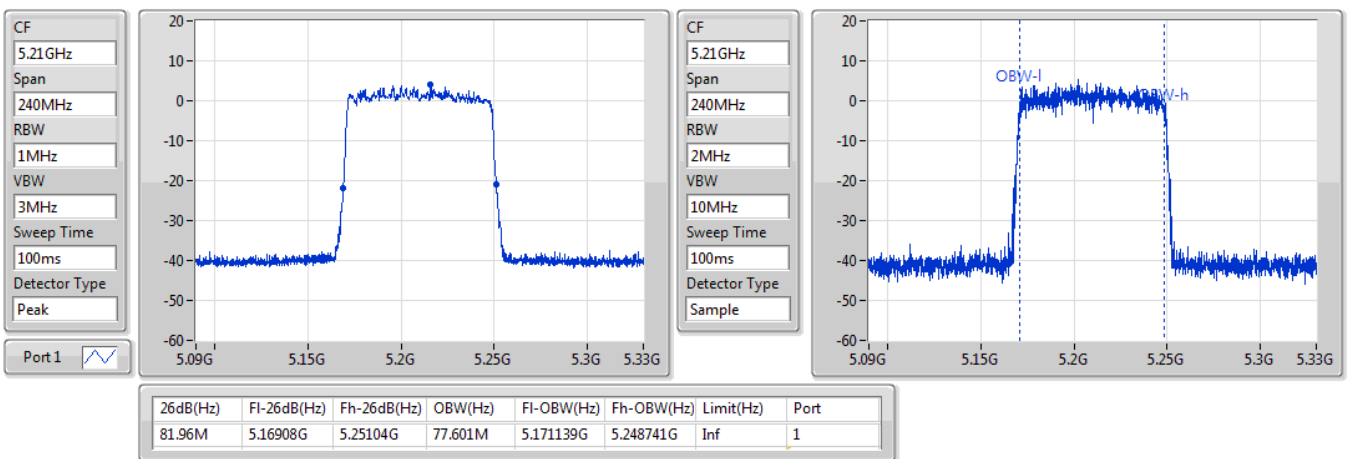


802.11ax HEW40_Nss1,(MCS0)_1TX
EBW
5795MHz

06/04/2021

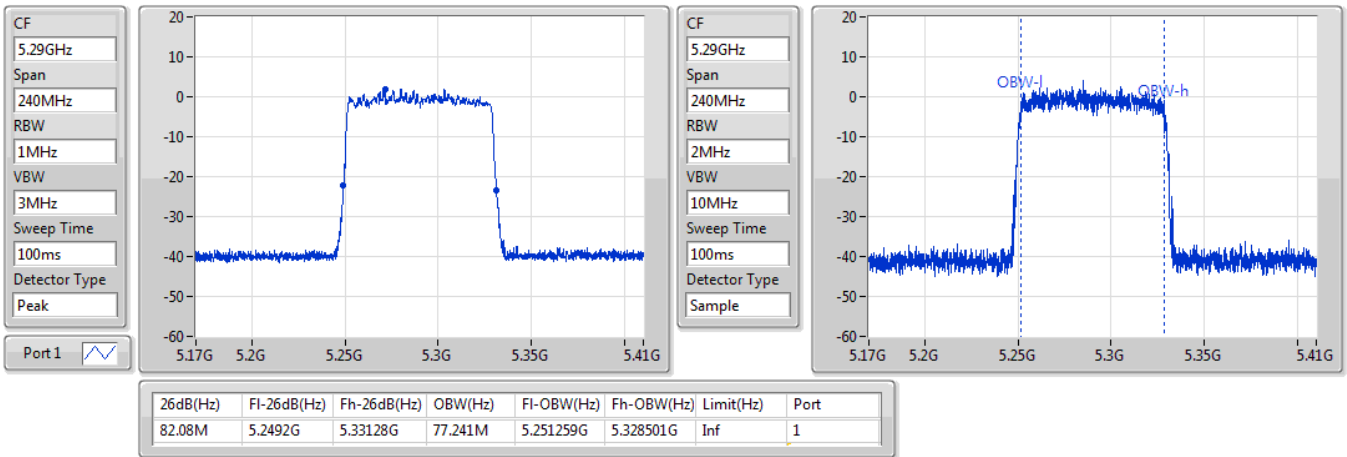

802.11ax HEW80_Nss1,(MCS0)_1TX
EBW
5210MHz

06/04/2021

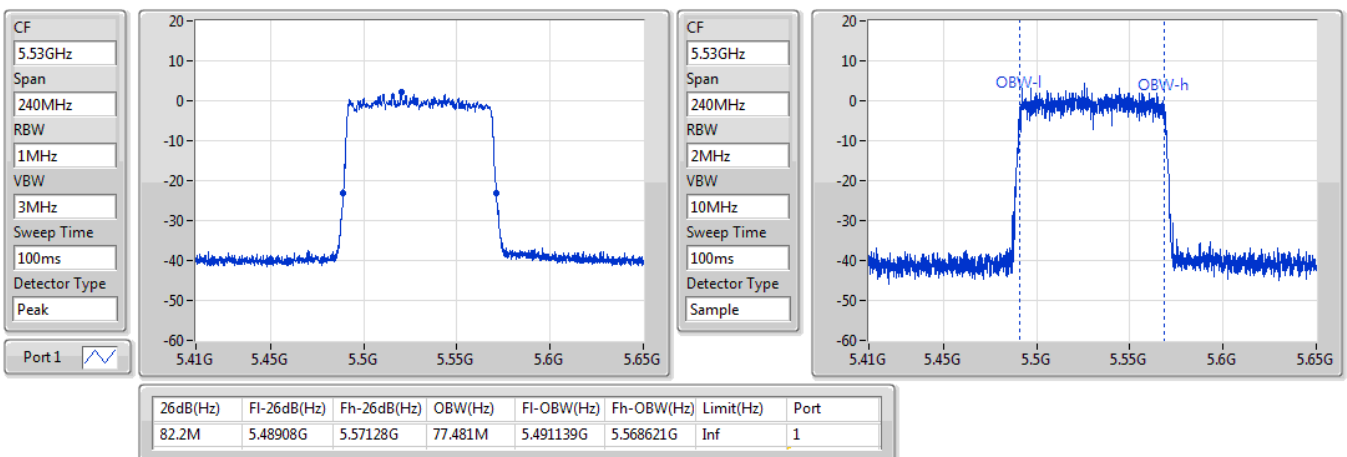


802.11ax HEW80_Nss1,(MCS0)_1TX
EBW
5290MHz

06/04/2021

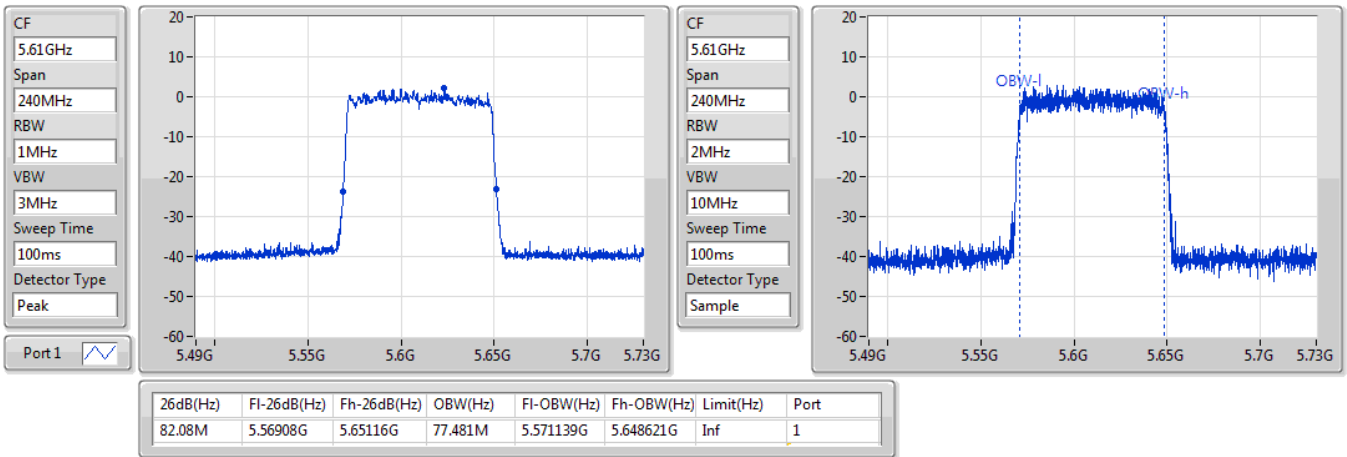

802.11ax HEW80_Nss1,(MCS0)_1TX
EBW
5530MHz

06/04/2021

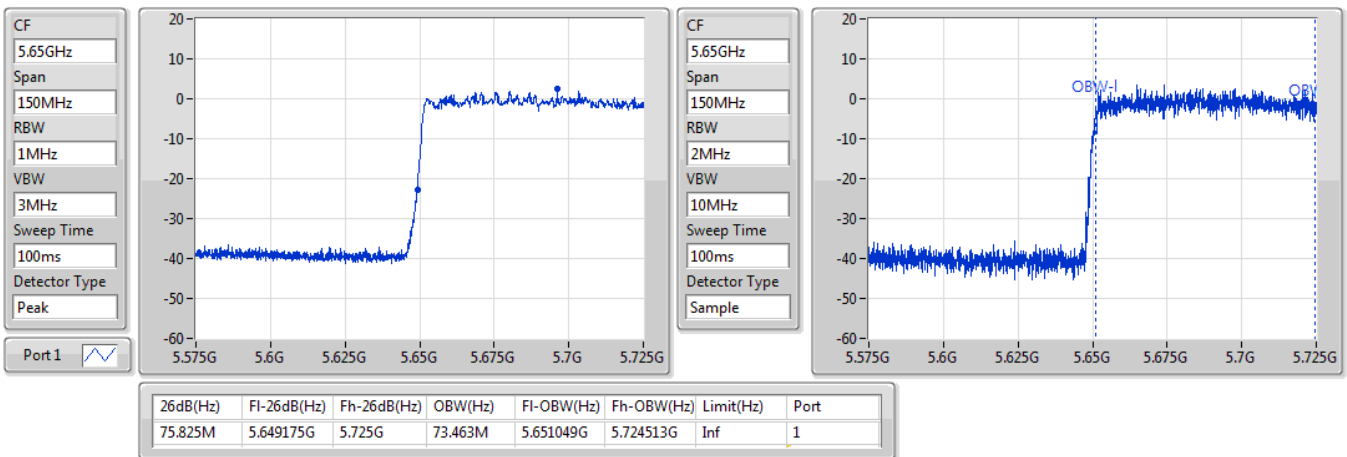


802.11ax HEW80_Nss1,(MCS0)_1TX
EBW
5610MHz

06/04/2021

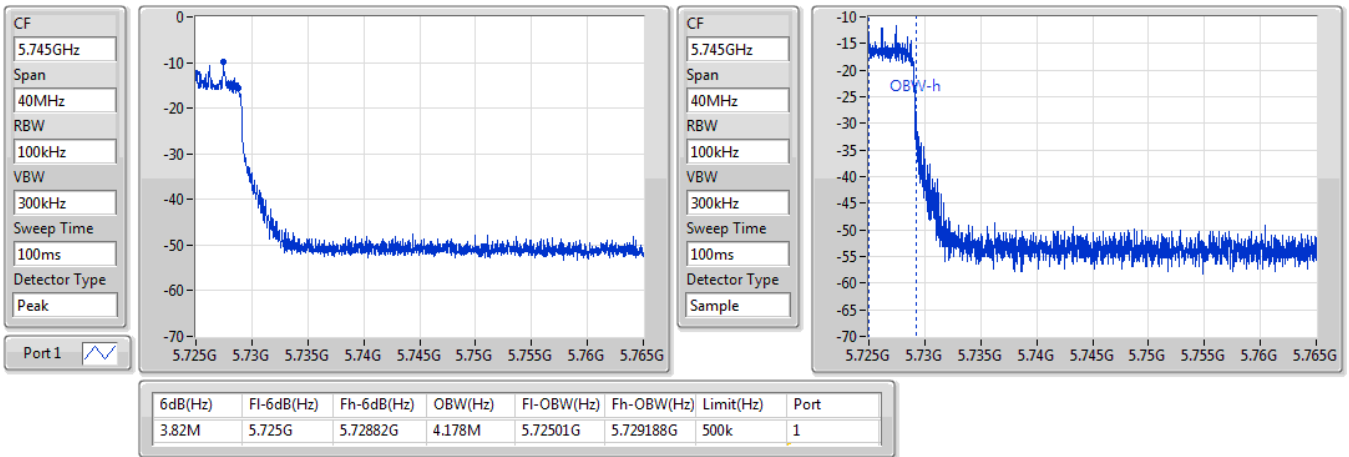

802.11ax HEW80_Nss1,(MCS0)_1TX
EBW
5690MHz Straddle 5.47-5.725GHz

06/04/2021

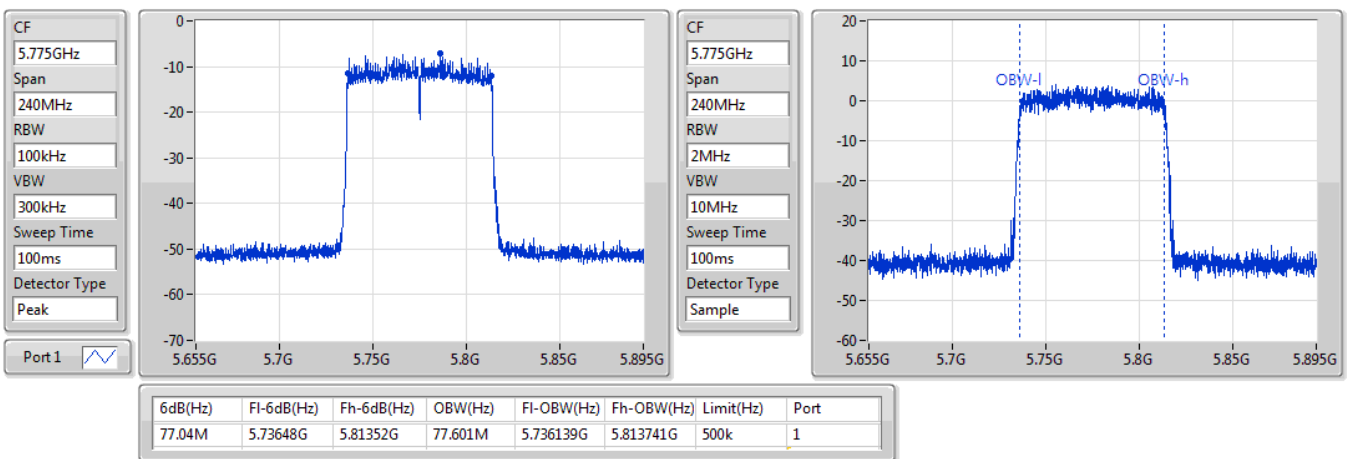


802.11ax HEW80_Nss1,(MCS0)_1TX
EBW
5690MHz Straddle 5.725-5.85GHz

06/04/2021

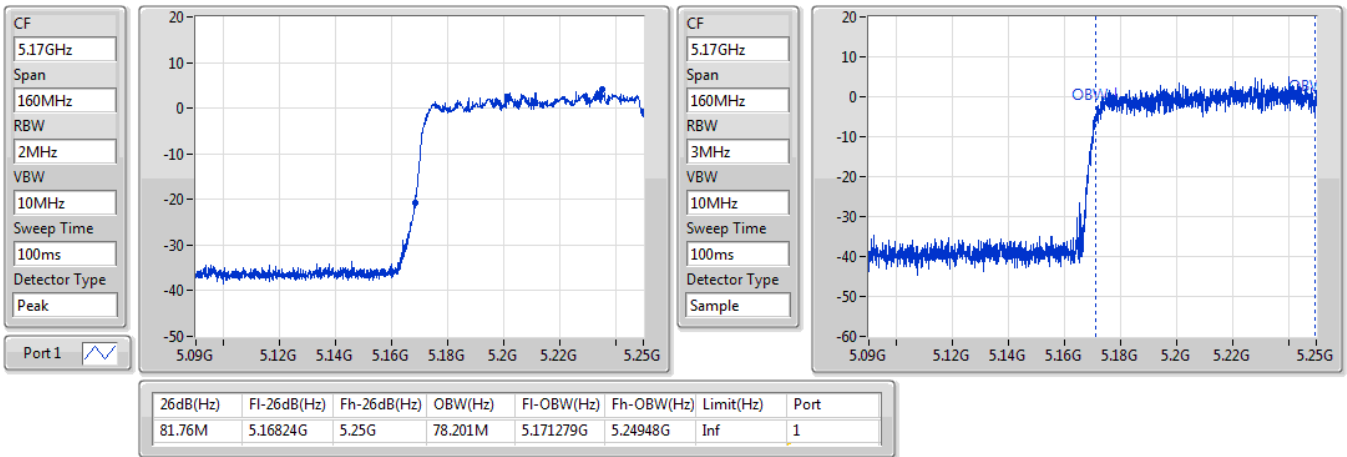

802.11ax HEW80_Nss1,(MCS0)_1TX
EBW
5775MHz

06/04/2021

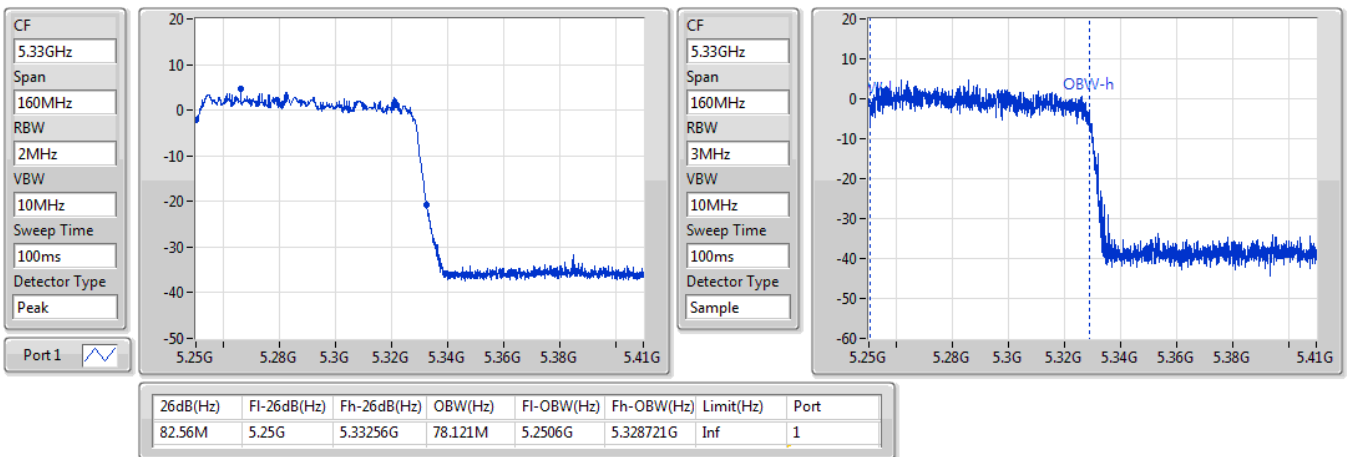


802.11ax HEW160_Nss1,(MCS0)_1TX
EBW
5250MHz Straddle 5.15-5.25GHz

06/04/2021


802.11ax HEW160_Nss1,(MCS0)_1TX
EBW
5250MHz Straddle 5.25-5.35GHz

06/04/2021

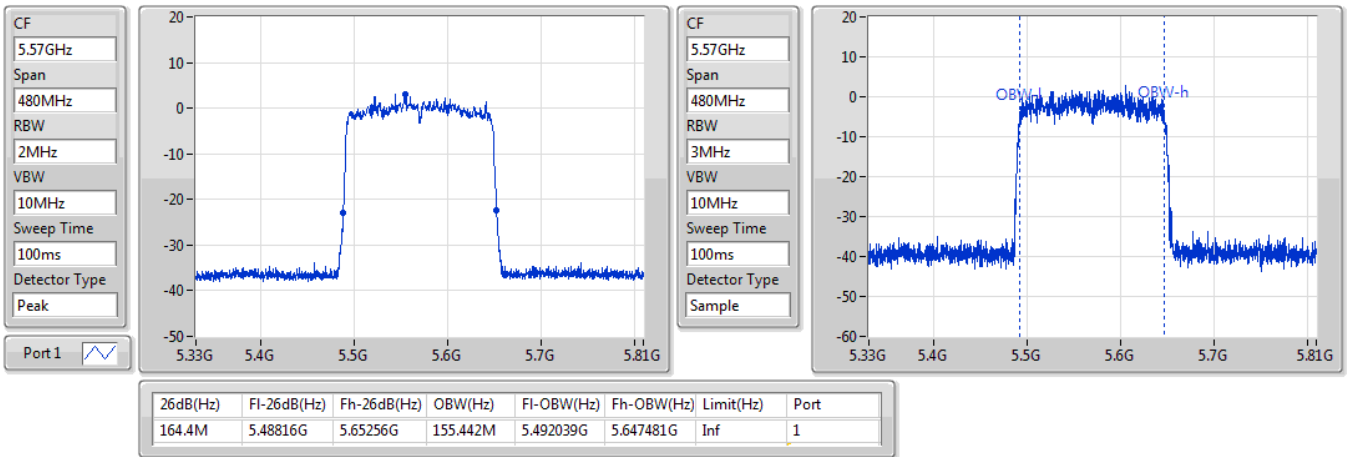


802.11ax HEW160_Nss1,(MCS0)_1TX

EBW

5570MHz

06/04/2021



Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.15-5.25GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	21.66M	16.852M	16M9D1D	21.39M	16.702M
802.11n HT20_Nss2,(MCS0)_2TX	21.84M	17.991M	18M0D1D	21.51M	17.841M
802.11n HT40_Nss2,(MCS0)_2TX	40.14M	36.522M	36M5D1D	39.48M	36.402M
802.11ac VHT20_Nss2,(MCS0)_2TX	21.96M	17.961M	18M0D1D	21.51M	17.841M
802.11ac VHT40_Nss2,(MCS0)_2TX	40.02M	36.582M	36M6D1D	39.84M	36.402M
802.11ac VHT80_Nss2,(MCS0)_2TX	81.96M	76.282M	76M3D1D	81.48M	76.042M
802.11ac VHT160_Nss2,(MCS0)_2TX	82.24M	77.001M	77M0D1D	81.84M	77.001M
802.11ax HEW20_Nss2,(MCS0)_2TX	21.9M	19.04M	19M0D1D	21.42M	18.981M
802.11ax HEW40_Nss2,(MCS0)_2TX	40.08M	37.841M	37M8D1D	39.84M	37.661M
802.11ax HEW80_Nss2,(MCS0)_2TX	81.36M	77.361M	77M4D1D	81.24M	77.361M
802.11ax HEW160_Nss2,(MCS0)_2TX	82.24M	78.121M	78M1D1D	82.24M	78.121M
5.25-5.35GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	21.63M	16.822M	16M8D1D	21.45M	16.702M
802.11n HT20_Nss2,(MCS0)_2TX	21.81M	17.961M	18M0D1D	21.48M	17.871M
802.11n HT40_Nss2,(MCS0)_2TX	40.14M	36.522M	36M5D1D	39.42M	36.462M
802.11ac VHT20_Nss2,(MCS0)_2TX	22.05M	17.991M	18M0D1D	21.63M	17.871M
802.11ac VHT40_Nss2,(MCS0)_2TX	39.96M	36.522M	36M5D1D	39.84M	36.462M
802.11ac VHT80_Nss2,(MCS0)_2TX	81.96M	76.282M	76M3D1D	81.72M	76.162M
802.11ac VHT160_Nss2,(MCS0)_2TX	82.88M	76.922M	76M9D1D	82.56M	76.842M
802.11ax HEW20_Nss2,(MCS0)_2TX	21.99M	19.04M	19M0D1D	21.27M	18.981M
802.11ax HEW40_Nss2,(MCS0)_2TX	40.08M	37.841M	37M8D1D	39.72M	37.661M
802.11ax HEW80_Nss2,(MCS0)_2TX	81.48M	77.601M	77M6D1D	81.24M	77.481M
802.11ax HEW160_Nss2,(MCS0)_2TX	83.28M	78.121M	78M1D1D	83.04M	77.801M
5.47-5.725GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	21.75M	16.822M	16M8D1D	15.66M	13.433M
802.11n HT20_Nss2,(MCS0)_2TX	21.87M	17.991M	18M0D1D	15.765M	13.973M
802.11n HT40_Nss2,(MCS0)_2TX	40.2M	36.522M	36M5D1D	34.86M	33.163M
802.11ac VHT20_Nss2,(MCS0)_2TX	21.96M	17.931M	17M9D1D	15.78M	13.973M
802.11ac VHT40_Nss2,(MCS0)_2TX	40.26M	36.582M	36M6D1D	34.93M	33.128M
802.11ac VHT80_Nss2,(MCS0)_2TX	82.08M	76.522M	76M5D1D	75.975M	72.789M
802.11ac VHT160_Nss2,(MCS0)_2TX	164.88M	154.723M	155MD1D	164.64M	153.763M
802.11ax HEW20_Nss2,(MCS0)_2TX	21.93M	19.04M	19M0D1D	15.675M	14.513M
802.11ax HEW40_Nss2,(MCS0)_2TX	40.08M	37.901M	37M9D1D	35.035M	33.758M
802.11ax HEW80_Nss2,(MCS0)_2TX	81.36M	77.601M	77M6D1D	75.45M	73.313M
802.11ax HEW160_Nss2,(MCS0)_2TX	166.08M	155.442M	155MD1D	164.64M	154.723M
5.725-5.85GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	16.38M	16.852M	16M9D1D	3.12M	4.178M
802.11n HT20_Nss2,(MCS0)_2TX	17.61M	17.931M	17M9D1D	3.76M	4.278M
802.11n HT40_Nss2,(MCS0)_2TX	36.36M	36.582M	36M6D1D	3.12M	3.658M
802.11ac VHT20_Nss2,(MCS0)_2TX	17.61M	17.931M	17M9D1D	3.76M	4.318M
802.11ac VHT40_Nss2,(MCS0)_2TX	36.3M	36.522M	36M5D1D	3.12M	3.578M
802.11ac VHT80_Nss2,(MCS0)_2TX	76.32M	76.282M	76M3D1D	3.12M	4.078M
802.11ax HEW20_Nss2,(MCS0)_2TX	18.99M	19.07M	19M1D1D	4.44M	4.558M
802.11ax HEW40_Nss2,(MCS0)_2TX	37.62M	37.841M	37M8D1D	3.64M	4.038M
802.11ax HEW80_Nss2,(MCS0)_2TX	77.52M	77.361M	77M4D1D	3.74M	4.118M

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)
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
5180MHz	Pass	Inf	21.39M	16.762M	21.66M	16.792M
5200MHz	Pass	Inf	21.45M	16.732M	21.57M	16.732M
5240MHz	Pass	Inf	21.39M	16.702M	21.66M	16.852M
5260MHz	Pass	Inf	21.51M	16.822M	21.63M	16.792M
5300MHz	Pass	Inf	21.45M	16.822M	21.6M	16.822M
5320MHz	Pass	Inf	21.54M	16.732M	21.63M	16.702M
5500MHz	Pass	Inf	21.48M	16.822M	21.75M	16.822M
5580MHz	Pass	Inf	21.48M	16.762M	21.63M	16.762M
5700MHz	Pass	Inf	21.57M	16.762M	21.75M	16.792M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	15.66M	13.433M	15.735M	13.448M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	3.12M	4.178M	3.18M	4.278M
5745MHz	Pass	500k	16.35M	16.822M	16.35M	16.792M
5785MHz	Pass	500k	16.35M	16.762M	16.35M	16.852M
5825MHz	Pass	500k	16.38M	16.762M	16.35M	16.822M
802.11n HT20_Nss2,(MCS0)_2TX	-	-	-	-	-	-
5180MHz	Pass	Inf	21.84M	17.931M	21.51M	17.841M
5200MHz	Pass	Inf	21.72M	17.901M	21.54M	17.871M
5240MHz	Pass	Inf	21.72M	17.991M	21.51M	17.841M
5260MHz	Pass	Inf	21.66M	17.931M	21.72M	17.871M
5300MHz	Pass	Inf	21.72M	17.901M	21.57M	17.871M
5320MHz	Pass	Inf	21.81M	17.961M	21.48M	17.871M
5500MHz	Pass	Inf	21.72M	17.901M	21.45M	17.841M
5580MHz	Pass	Inf	21.87M	17.931M	21.51M	17.871M
5700MHz	Pass	Inf	21.78M	17.991M	21.57M	17.871M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	15.855M	13.973M	15.765M	13.973M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	3.76M	4.358M	3.76M	4.278M
5745MHz	Pass	500k	17.58M	17.901M	17.58M	17.811M
5785MHz	Pass	500k	17.58M	17.931M	17.61M	17.841M
5825MHz	Pass	500k	17.58M	17.871M	17.61M	17.901M
802.11n HT40_Nss2,(MCS0)_2TX	-	-	-	-	-	-
5190MHz	Pass	Inf	40.08M	36.402M	39.48M	36.522M
5230MHz	Pass	Inf	40.14M	36.522M	39.6M	36.462M
5270MHz	Pass	Inf	40.14M	36.462M	39.54M	36.522M
5310MHz	Pass	Inf	40.08M	36.462M	39.42M	36.462M
5510MHz	Pass	Inf	40.2M	36.522M	39.54M	36.402M
5550MHz	Pass	Inf	40.2M	36.462M	39.48M	36.522M
5670MHz	Pass	Inf	40.2M	36.402M	39.72M	36.402M
5710MHz Straddle 5.47-5.725GHz	Pass	Inf	35.175M	33.163M	34.86M	33.233M
5710MHz Straddle 5.725-5.85GHz	Pass	500k	3.12M	3.678M	3.12M	3.658M
5755MHz	Pass	500k	36.3M	36.582M	36.3M	36.462M
5795MHz	Pass	500k	36.3M	36.402M	36.36M	36.462M
802.11ac VHT20_Nss2,(MCS0)_2TX	-	-	-	-	-	-
5180MHz	Pass	Inf	21.9M	17.841M	21.72M	17.841M
5200MHz	Pass	Inf	21.93M	17.961M	21.51M	17.901M
5240MHz	Pass	Inf	21.96M	17.871M	21.63M	17.901M
5260MHz	Pass	Inf	21.87M	17.901M	21.75M	17.901M
5300MHz	Pass	Inf	21.93M	17.871M	21.63M	17.931M
5320MHz	Pass	Inf	22.05M	17.991M	21.72M	17.871M
5500MHz	Pass	Inf	21.96M	17.931M	21.54M	17.901M
5580MHz	Pass	Inf	21.93M	17.871M	21.63M	17.901M
5700MHz	Pass	Inf	21.96M	17.931M	21.54M	17.901M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	15.81M	13.973M	15.78M	14.018M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	3.76M	4.338M	3.76M	4.318M
5745MHz	Pass	500k	17.58M	17.931M	17.58M	17.871M



Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
5785MHz	Pass	500k	17.58M	17.931M	17.58M	17.901M
5825MHz	Pass	500k	17.58M	17.871M	17.61M	17.841M
802.11ac VHT40_Nss2,(MCS0)_2TX	-	-	-	-	-	-
5190MHz	Pass	Inf	39.84M	36.402M	39.9M	36.582M
5230MHz	Pass	Inf	40.02M	36.522M	40.02M	36.462M
5270MHz	Pass	Inf	39.9M	36.522M	39.84M	36.462M
5310MHz	Pass	Inf	39.84M	36.522M	39.96M	36.522M
5510MHz	Pass	Inf	39.96M	36.462M	40.26M	36.582M
5550MHz	Pass	Inf	39.96M	36.462M	40.14M	36.582M
5670MHz	Pass	Inf	39.96M	36.462M	40.02M	36.522M
5710MHz Straddle 5.47-5.725GHz	Pass	Inf	34.93M	33.163M	35.14M	33.128M
5710MHz Straddle 5.725-5.85GHz	Pass	500k	3.12M	3.578M	3.12M	3.698M
5755MHz	Pass	500k	36.3M	36.462M	36.3M	36.462M
5795MHz	Pass	500k	36.3M	36.522M	36.3M	36.402M
802.11ac VHT80_Nss2,(MCS0)_2TX	-	-	-	-	-	-
5210MHz	Pass	Inf	81.48M	76.042M	81.96M	76.282M
5290MHz	Pass	Inf	81.72M	76.282M	81.96M	76.162M
5530MHz	Pass	Inf	82.08M	76.282M	81.96M	76.522M
5610MHz	Pass	Inf	81.72M	76.042M	81.96M	76.282M
5690MHz Straddle 5.47-5.725GHz	Pass	Inf	75.975M	72.864M	76.2M	72.789M
5690MHz Straddle 5.725-5.85GHz	Pass	500k	3.12M	4.078M	3.12M	4.418M
5775MHz	Pass	500k	75.84M	75.922M	76.32M	76.282M
802.11ac VHT160_Nss2,(MCS0)_2TX	-	-	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	Inf	82.24M	77.001M	81.84M	77.001M
5250MHz Straddle 5.25-5.35GHz	Pass	Inf	82.56M	76.842M	82.88M	76.922M
5570MHz	Pass	Inf	164.64M	154.723M	164.88M	153.763M
802.11ax HEW20_Nss2,(MCS0)_2TX	-	-	-	-	-	-
5180MHz	Pass	Inf	21.9M	19.01M	21.42M	19.04M
5200MHz	Pass	Inf	21.84M	19.01M	21.54M	19.01M
5240MHz	Pass	Inf	21.87M	19.01M	21.51M	18.981M
5260MHz	Pass	Inf	21.78M	19.04M	21.54M	18.981M
5300MHz	Pass	Inf	21.99M	19.01M	21.27M	19.01M
5320MHz	Pass	Inf	21.63M	19.01M	21.48M	18.981M
5500MHz	Pass	Inf	21.81M	19.01M	21.45M	19.04M
5580MHz	Pass	Inf	21.93M	18.981M	21.51M	19.01M
5700MHz	Pass	Inf	21.78M	19.01M	21.51M	19.04M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	15.855M	14.528M	15.675M	14.513M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	4.46M	4.558M	4.44M	4.598M
5745MHz	Pass	500k	18.99M	19.01M	18.96M	19.07M
5785MHz	Pass	500k	18.93M	19.01M	18.93M	19.04M
5825MHz	Pass	500k	18.96M	19.04M	18.93M	19.01M
802.11ax HEW40_Nss2,(MCS0)_2TX	-	-	-	-	-	-
5190MHz	Pass	Inf	40.02M	37.781M	39.84M	37.721M
5230MHz	Pass	Inf	40.08M	37.841M	39.84M	37.661M
5270MHz	Pass	Inf	40.02M	37.661M	39.72M	37.721M
5310MHz	Pass	Inf	40.08M	37.841M	39.9M	37.781M
5510MHz	Pass	Inf	40.08M	37.901M	39.9M	37.721M
5550MHz	Pass	Inf	40.08M	37.601M	39.96M	37.781M
5670MHz	Pass	Inf	40.08M	37.781M	39.84M	37.721M
5710MHz Straddle 5.47-5.725GHz	Pass	Inf	35.035M	33.758M	35.035M	33.793M
5710MHz Straddle 5.725-5.85GHz	Pass	500k	3.76M	4.038M	3.64M	4.058M
5755MHz	Pass	500k	37.62M	37.781M	36.96M	37.841M
5795MHz	Pass	500k	37.56M	37.721M	37.02M	37.841M
802.11ax HEW80_Nss2,(MCS0)_2TX	-	-	-	-	-	-
5210MHz	Pass	Inf	81.24M	77.361M	81.36M	77.361M
5290MHz	Pass	Inf	81.24M	77.481M	81.48M	77.601M



Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
5530MHz	Pass	Inf	81.24M	77.361M	81.36M	77.481M
5610MHz	Pass	Inf	81.24M	77.601M	81.36M	77.361M
5690MHz Straddle 5.47-5.725GHz	Pass	Inf	75.45M	73.313M	75.75M	73.538M
5690MHz Straddle 5.725-5.85GHz	Pass	500k	3.78M	4.118M	3.74M	4.278M
5775MHz	Pass	500k	77.52M	77.361M	76.8M	77.361M
802.11ax HEW160_Nss2_(MCS0)_2TX	-	-	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	Inf	82.24M	78.121M	82.24M	78.121M
5250MHz Straddle 5.25-5.35GHz	Pass	Inf	83.04M	77.801M	83.28M	78.121M
5570MHz	Pass	Inf	166.08M	154.723M	164.64M	155.442M

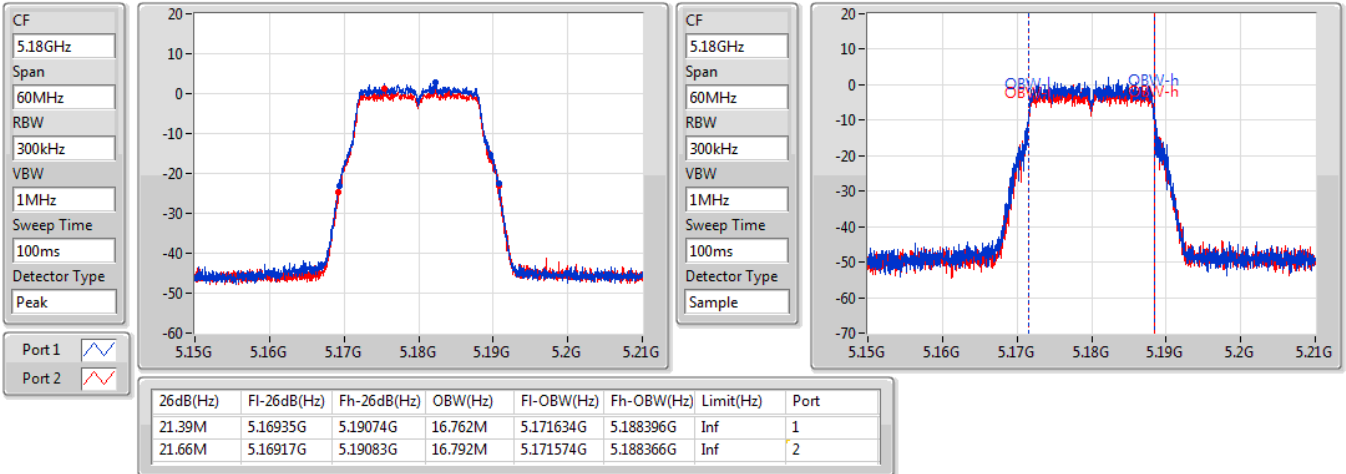
Port X-N dB = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band
Port X-OBW = Port X 99% occupied bandwidth

802.11a_Nss1,(6Mbps)_2TX

EBW

5180MHz

06/04/2021

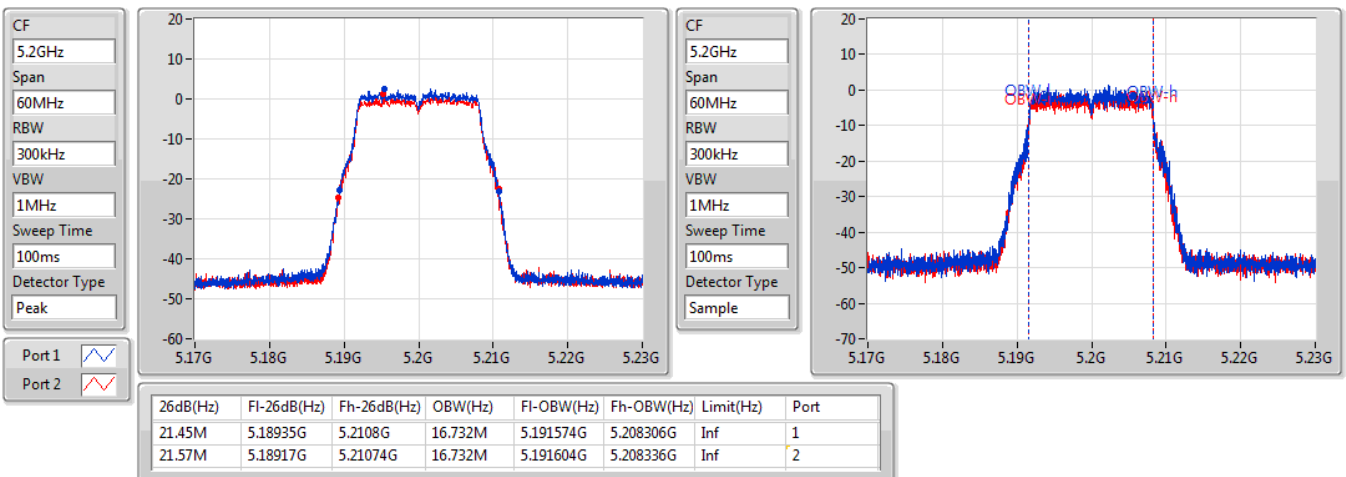


802.11a_Nss1,(6Mbps)_2TX

EBW

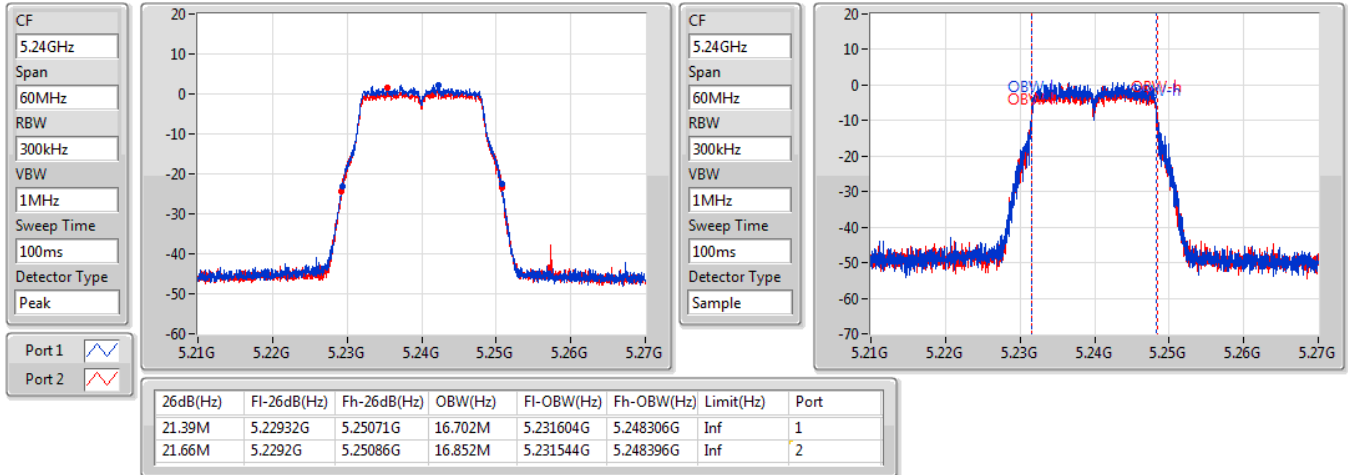
5200MHz

06/04/2021

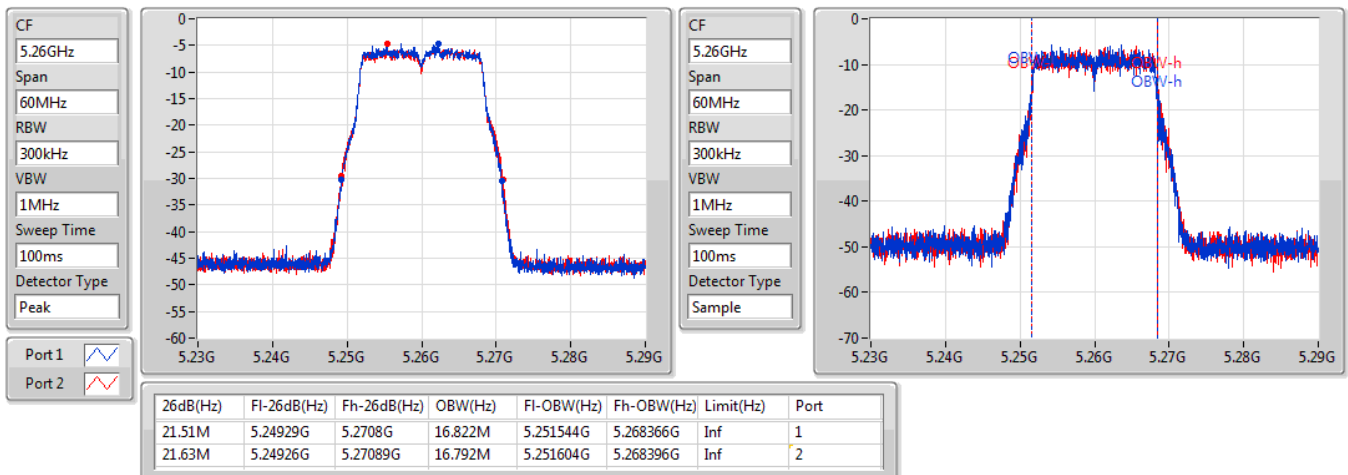


802.11a_Nss1,(6Mbps)_2TX
EBW
5240MHz

06/04/2021

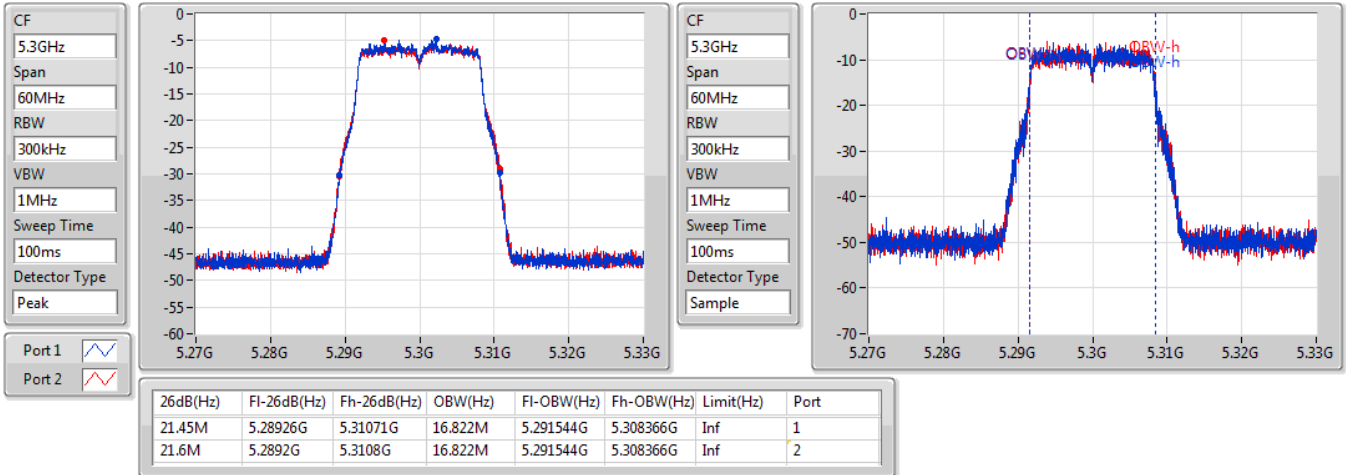

802.11a_Nss1,(6Mbps)_2TX
EBW
5260MHz

06/04/2021

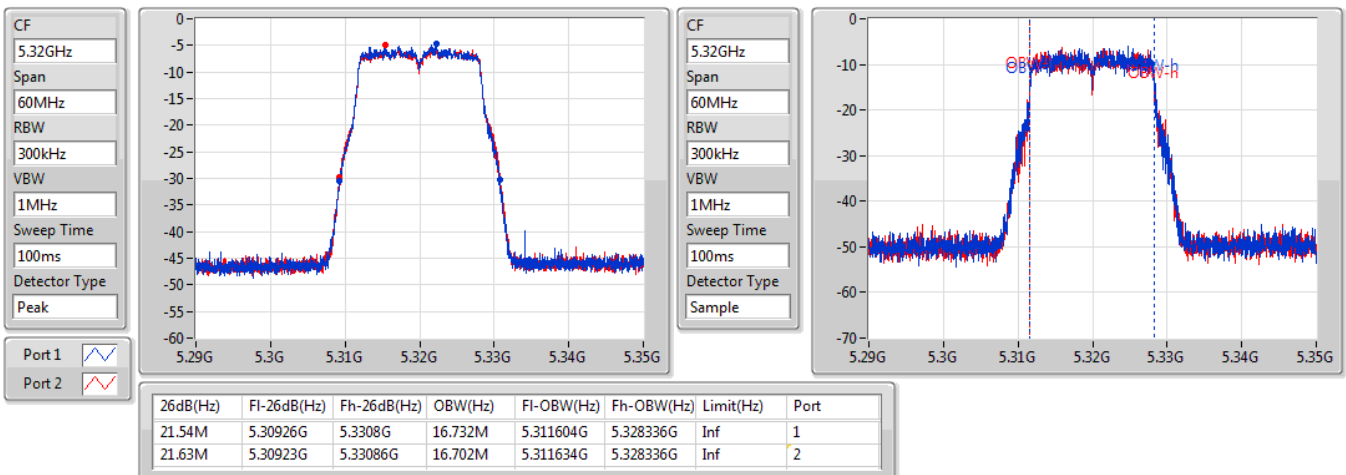


802.11a_Nss1,(6Mbps)_2TX
EBW
5300MHz

06/04/2021

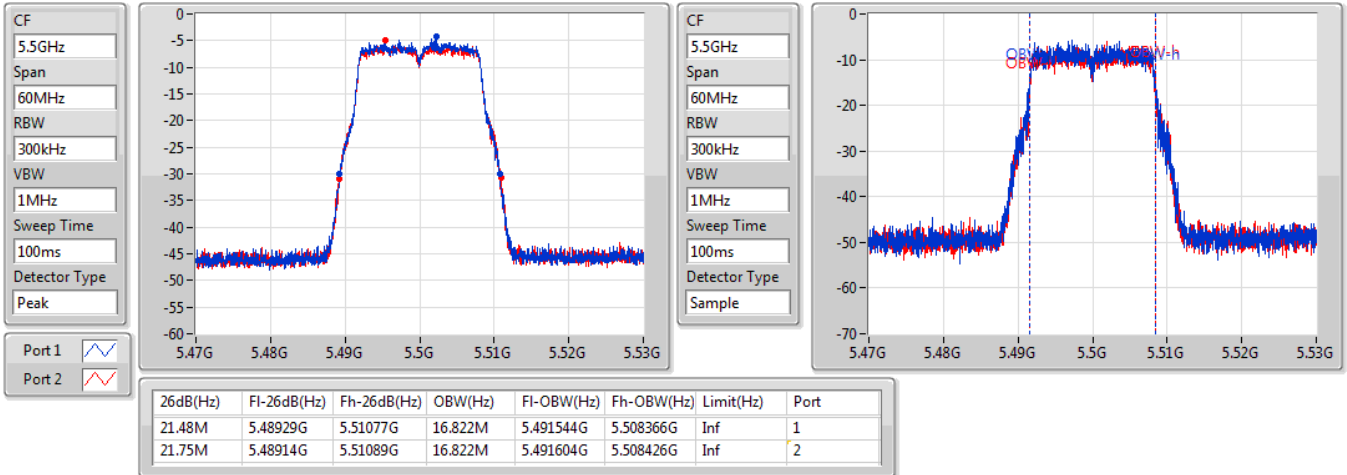

802.11a_Nss1,(6Mbps)_2TX
EBW
5320MHz

06/04/2021

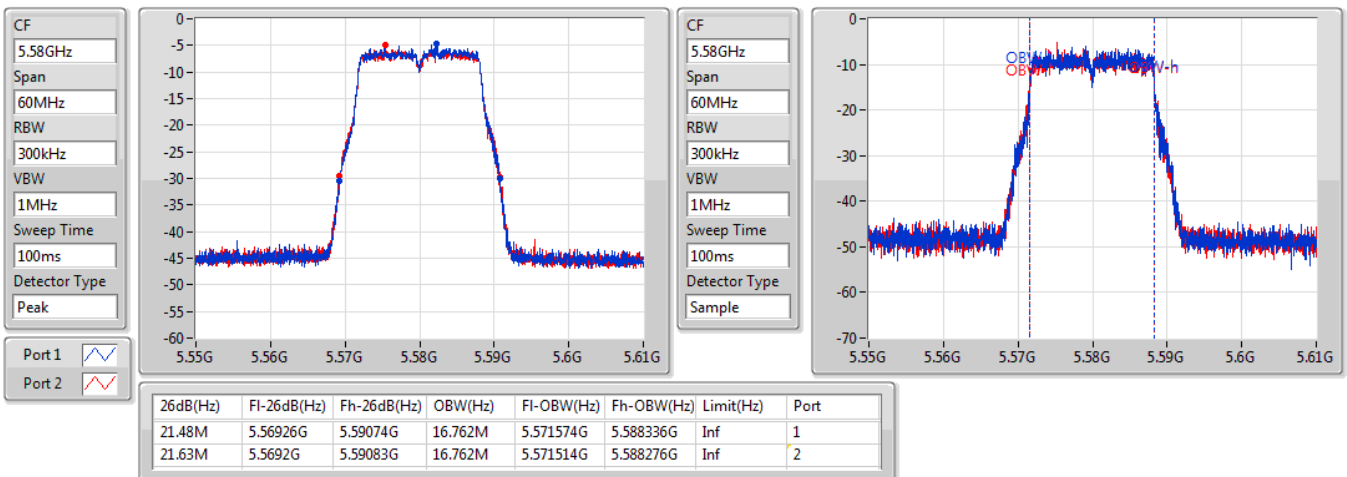


802.11a_Nss1,(6Mbps)_2TX
EBW
5500MHz

06/04/2021

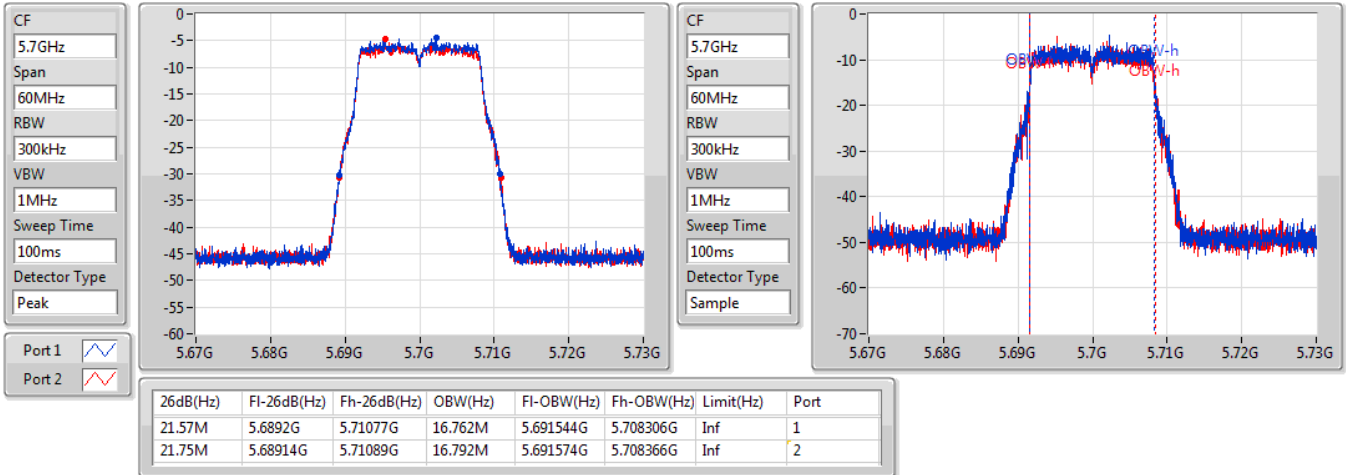

802.11a_Nss1,(6Mbps)_2TX
EBW
5580MHz

06/04/2021

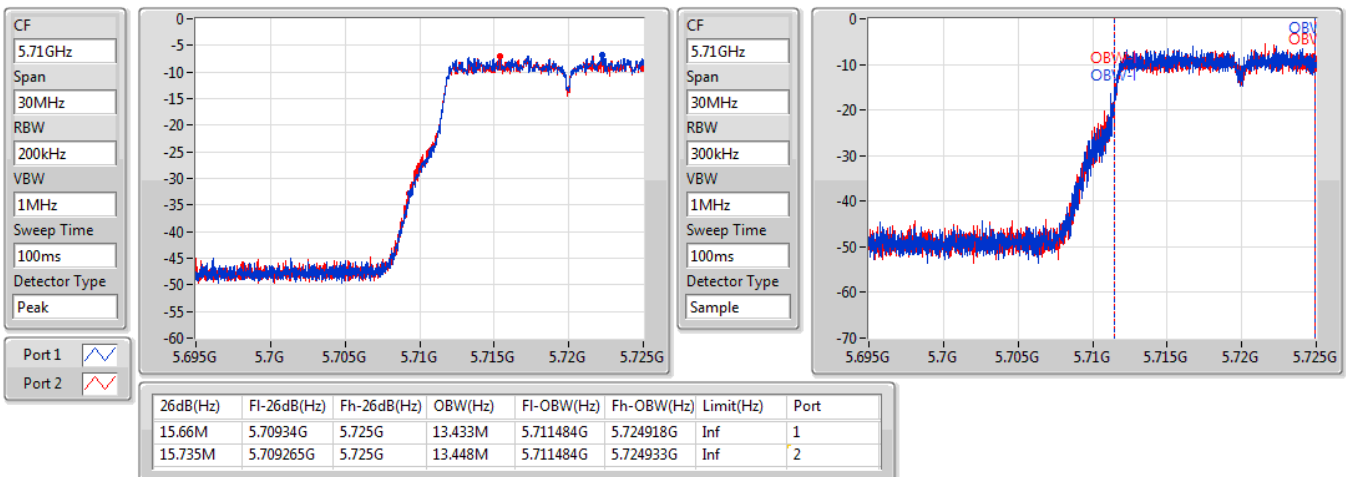


802.11a_Nss1,(6Mbps)_2TX
EBW
5700MHz

06/04/2021

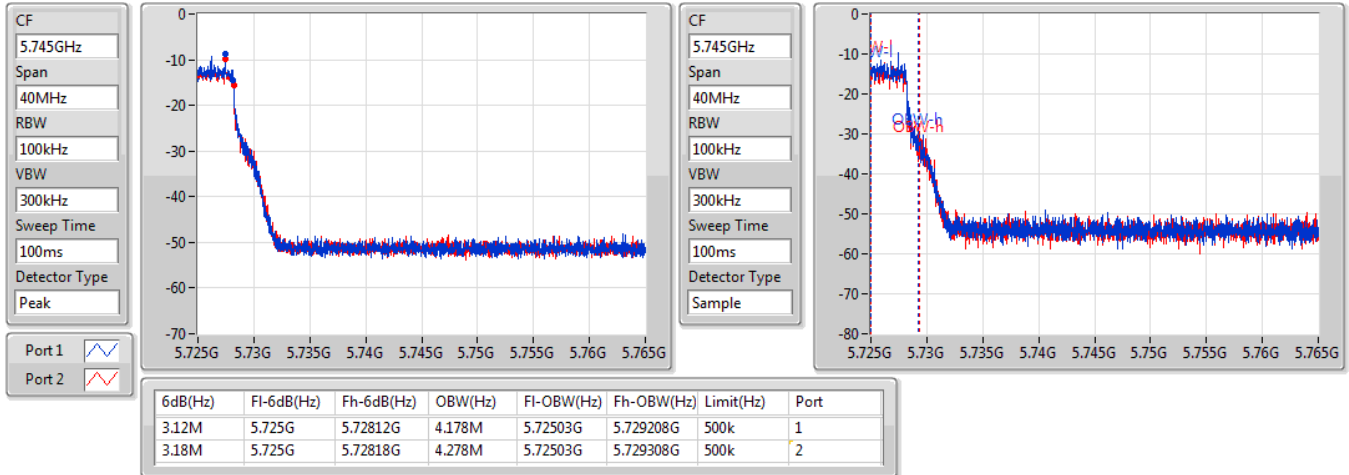

802.11a_Nss1,(6Mbps)_2TX
EBW
5720MHz Straddle 5.47-5.725GHz

06/04/2021

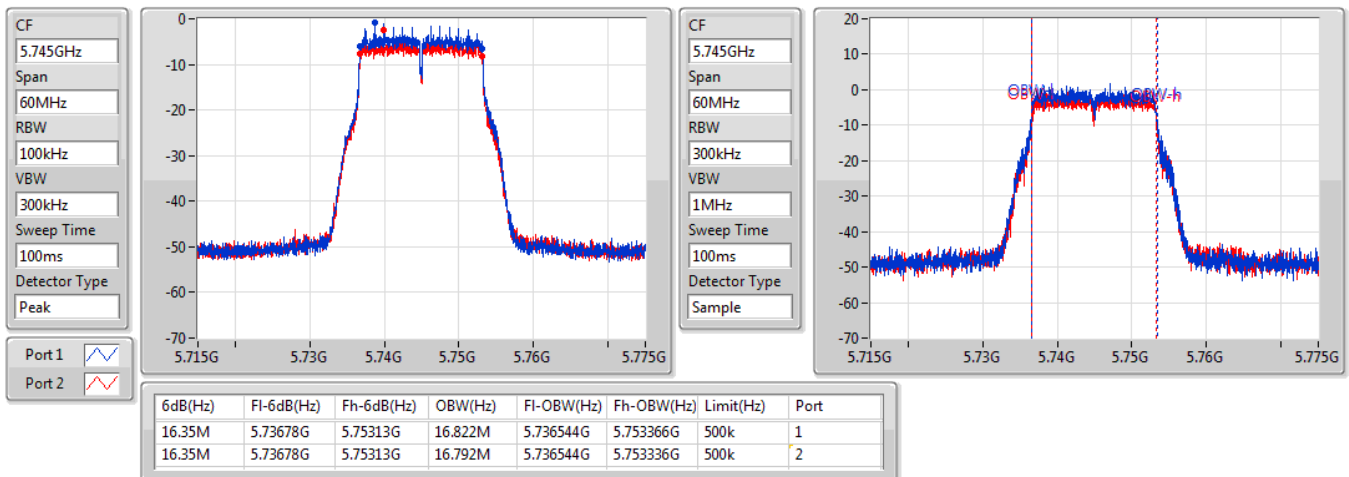


802.11a_Nss1,(6Mbps)_2TX
EBW
5720MHz Straddle 5.725-5.85GHz

06/04/2021

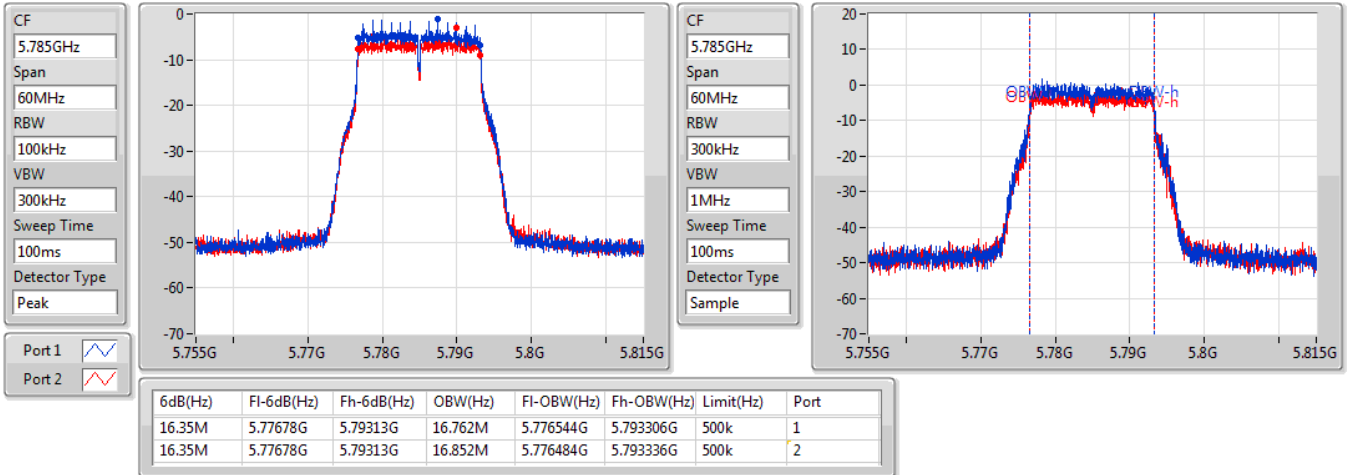

802.11a_Nss1,(6Mbps)_2TX
EBW
5745MHz

06/04/2021

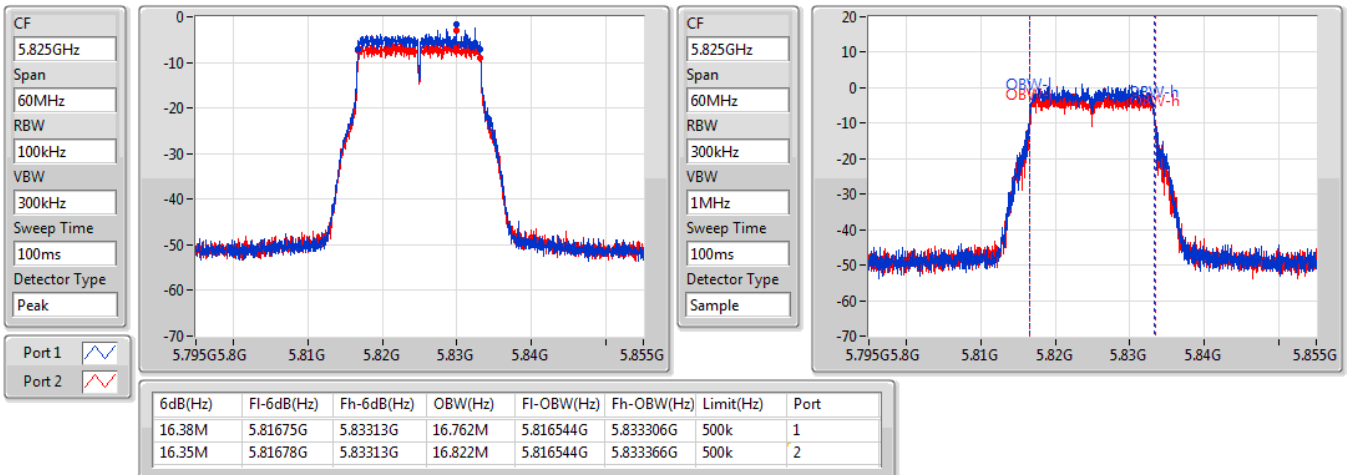


802.11a_Nss1,(6Mbps)_2TX
EBW
5785MHz

06/04/2021

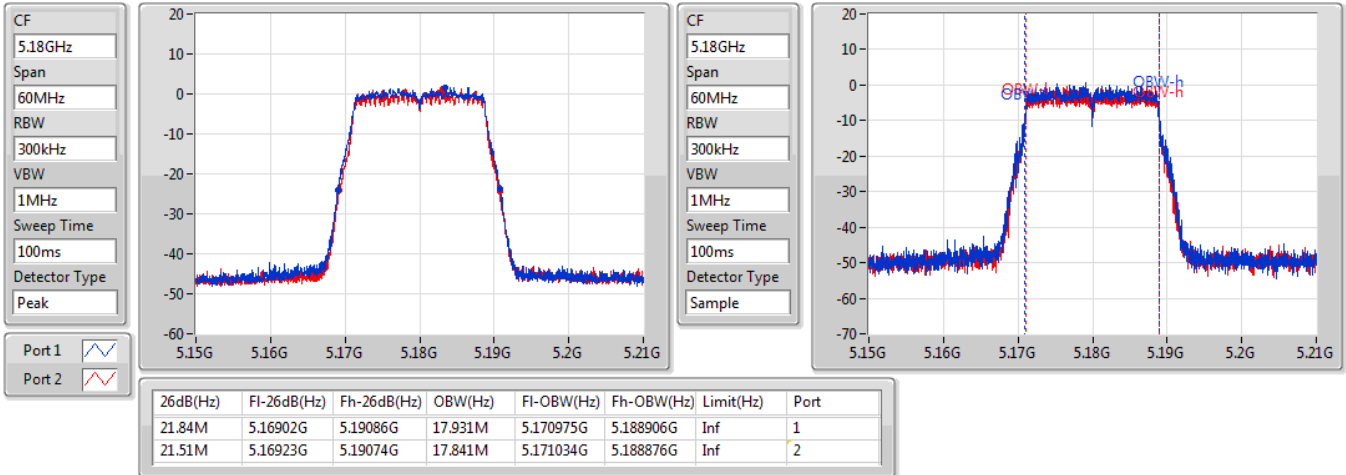

802.11a_Nss1,(6Mbps)_2TX
EBW
5825MHz

06/04/2021

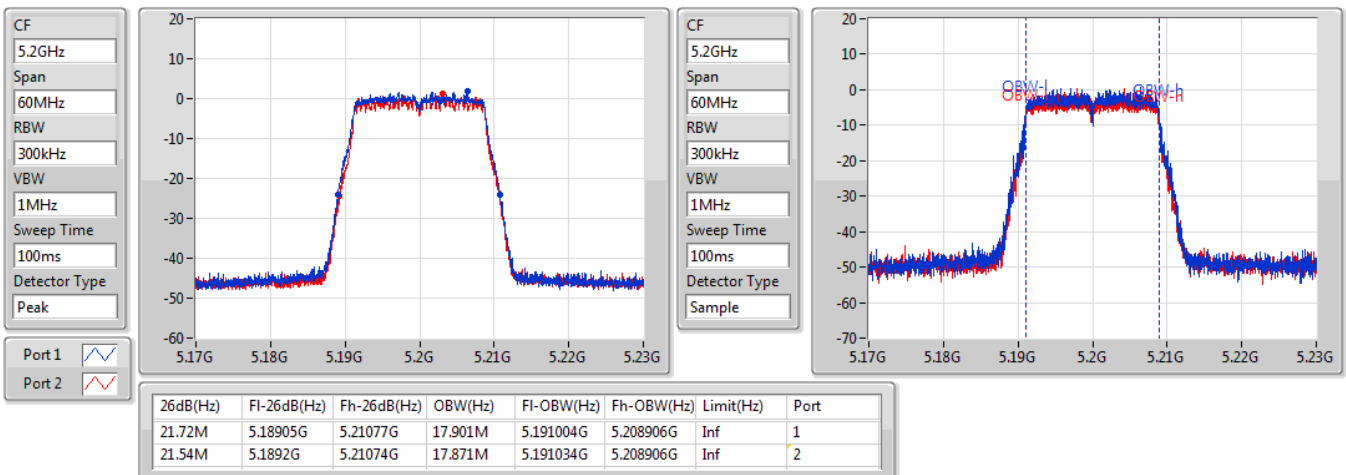


802.11n HT20_Nss2,(MCS0)_2TX
EBW
5180MHz

07/04/2021

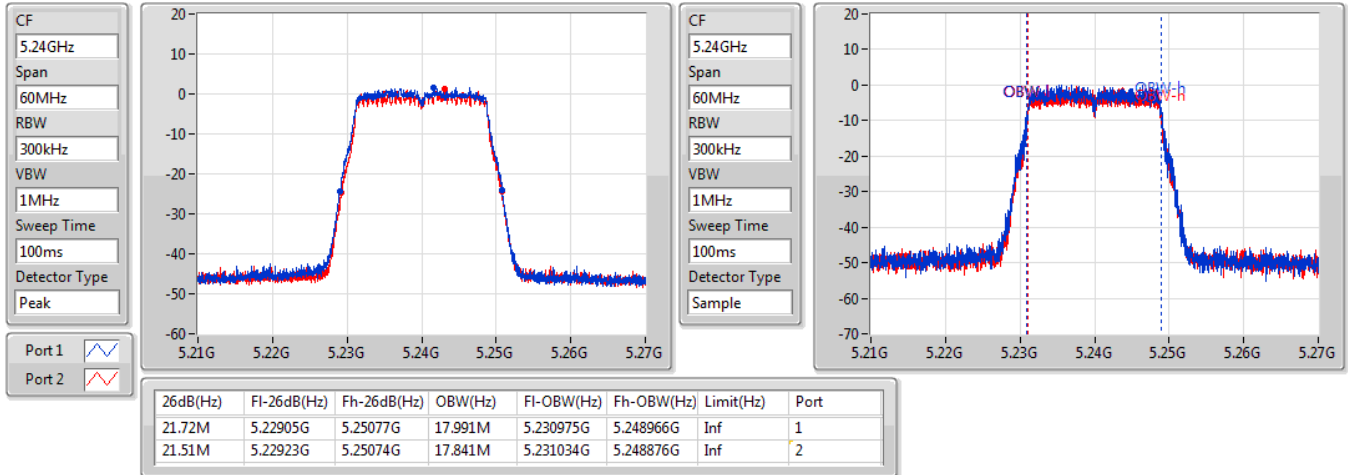

802.11n HT20_Nss2,(MCS0)_2TX
EBW
5200MHz

07/04/2021

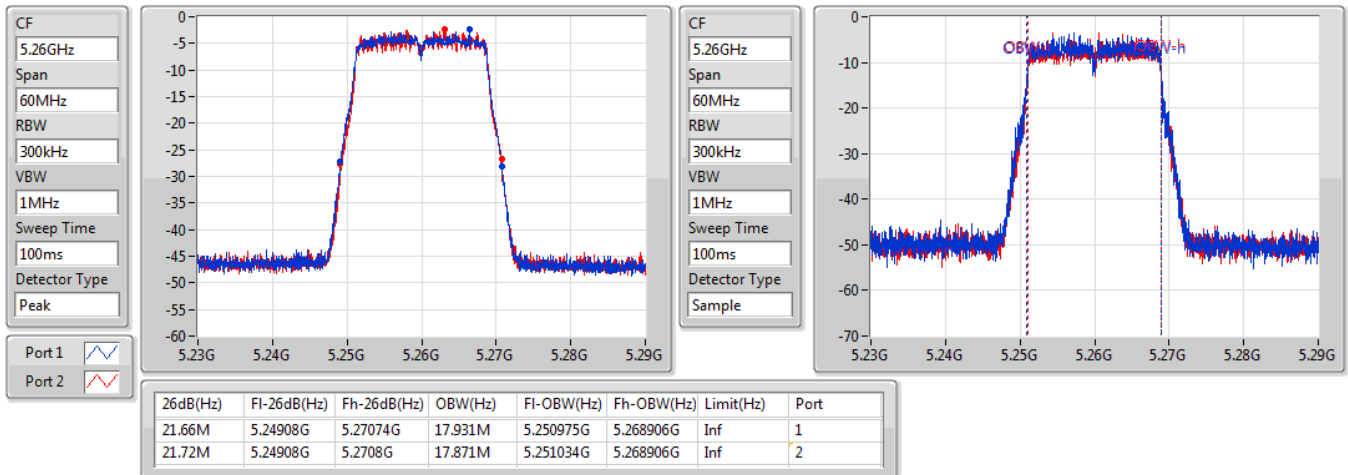


802.11n HT20_Nss2,(MCS0)_2TX
EBW
5240MHz

07/04/2021

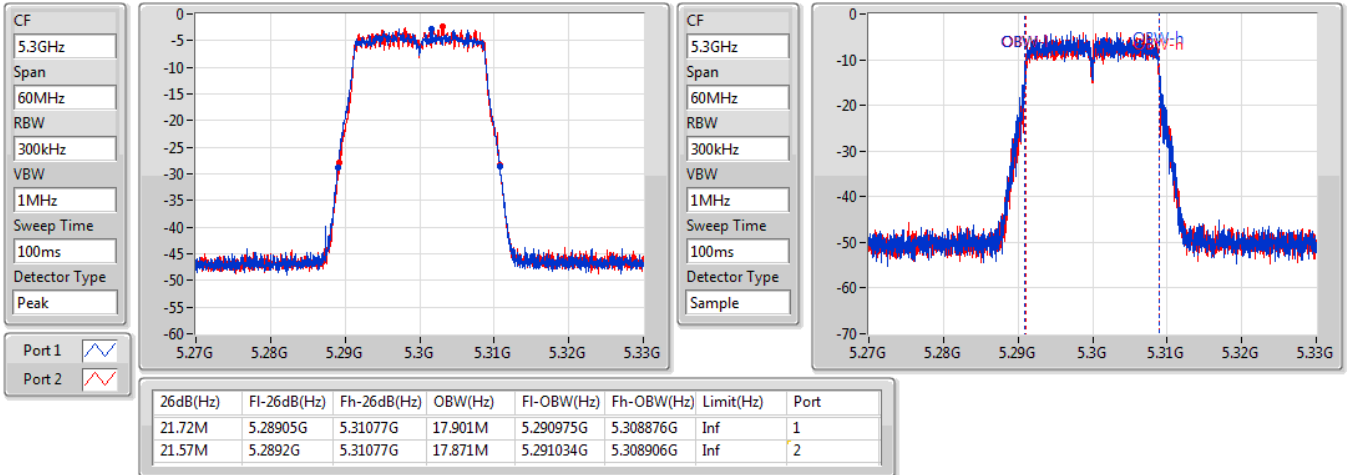

802.11n HT20_Nss2,(MCS0)_2TX
EBW
5260MHz

07/04/2021

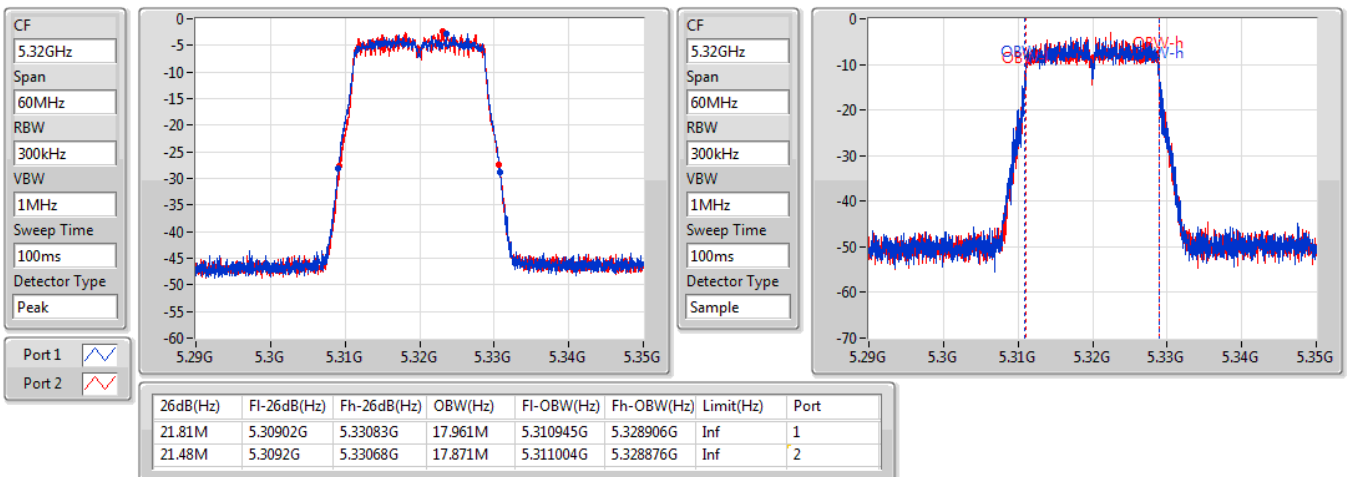


802.11n HT20_Nss2,(MCS0)_2TX
EBW
5300MHz

07/04/2021

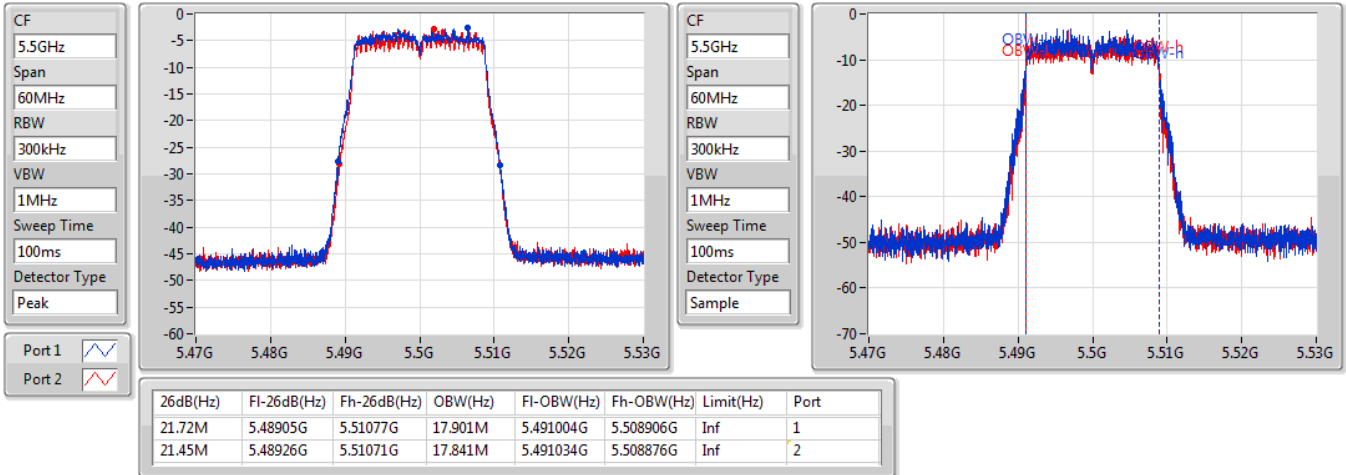

802.11n HT20_Nss2,(MCS0)_2TX
EBW
5320MHz

07/04/2021

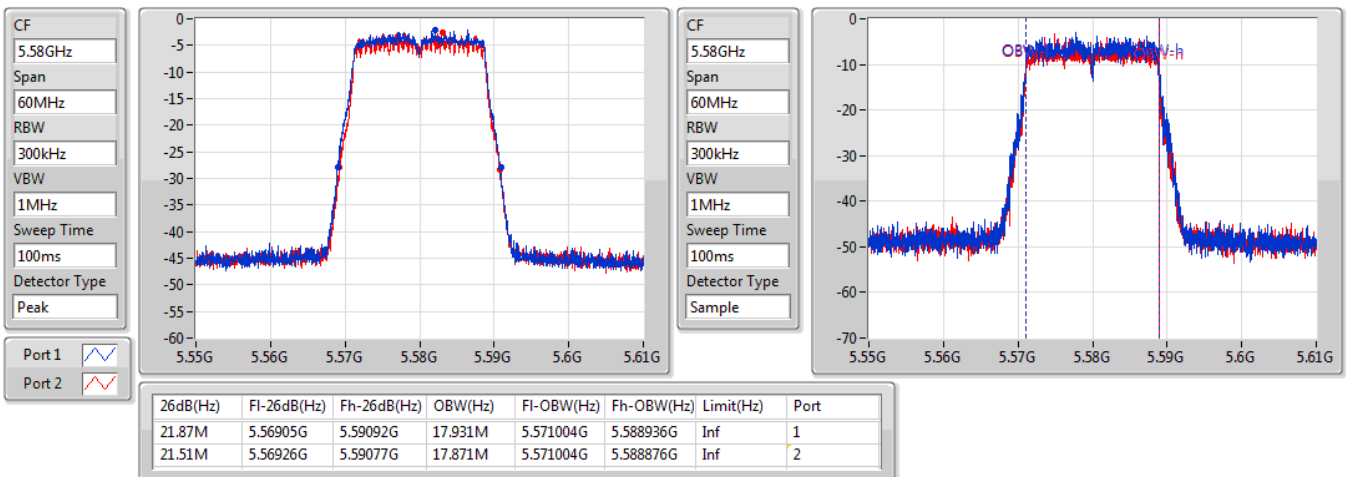


802.11n HT20_Nss2,(MCS0)_2TX
EBW
5500MHz

07/04/2021

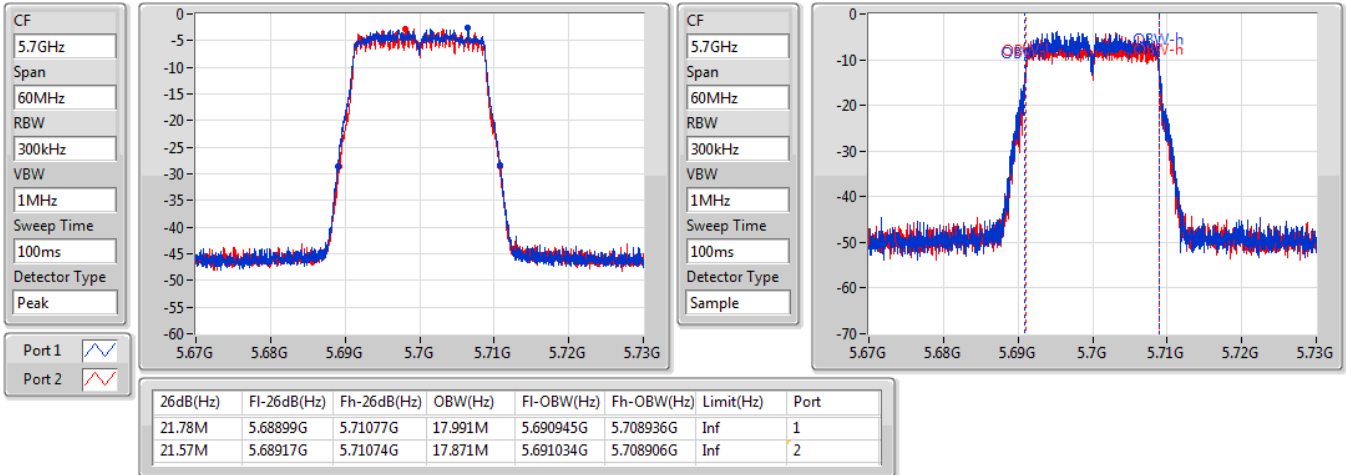

802.11n HT20_Nss2,(MCS0)_2TX
EBW
5580MHz

07/04/2021

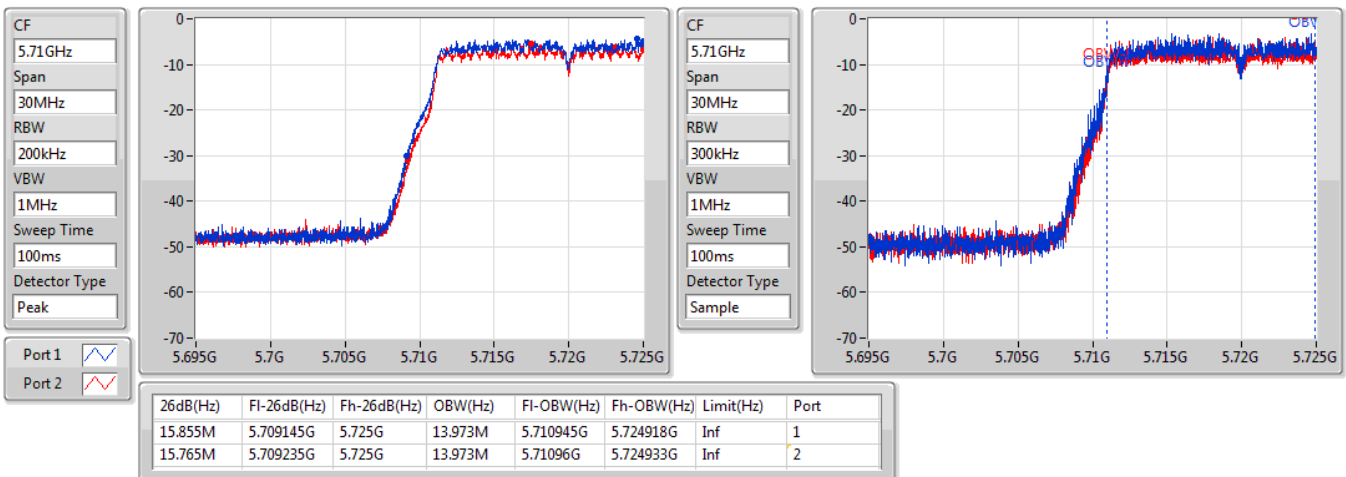


802.11n HT20_Nss2,(MCS0)_2TX
EBW
5700MHz

07/04/2021

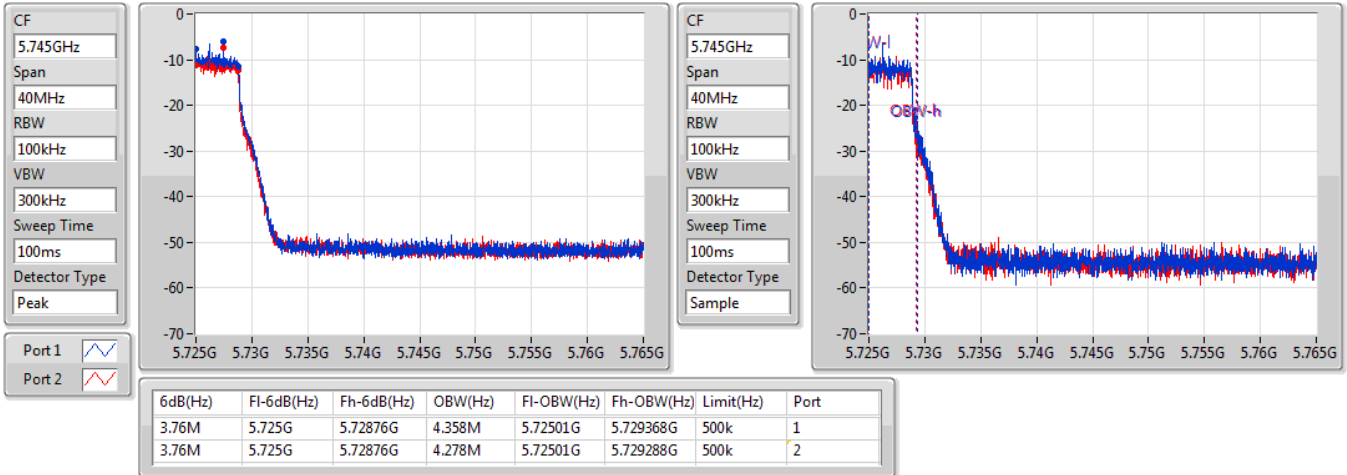

802.11n HT20_Nss2,(MCS0)_2TX
EBW
5720MHz Straddle 5.47-5.725GHz

07/04/2021

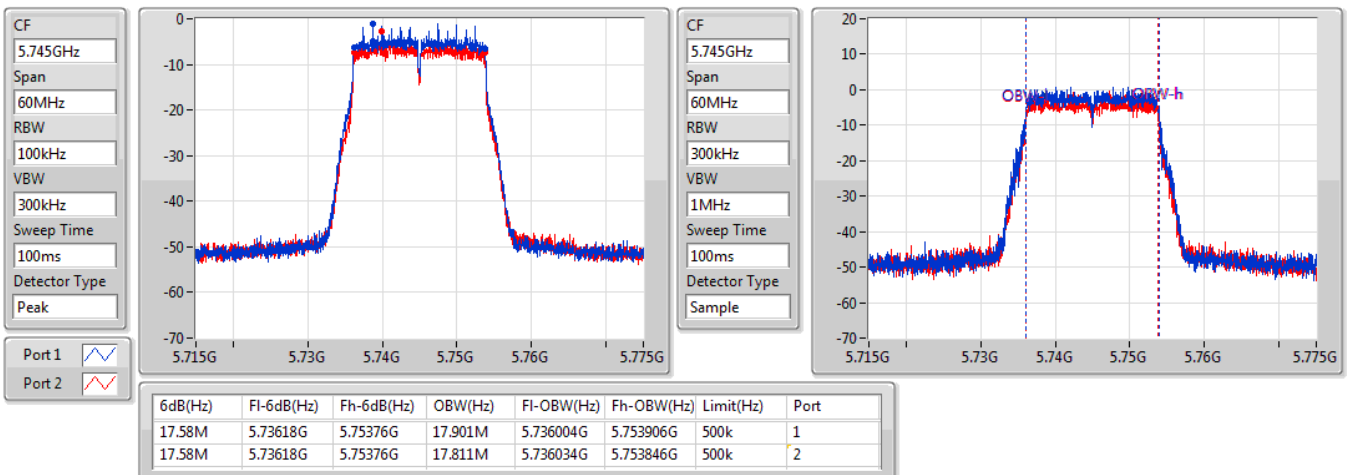


802.11n HT20_Nss2,(MCS0)_2TX
EBW
5720MHz Straddle 5.725-5.85GHz

07/04/2021

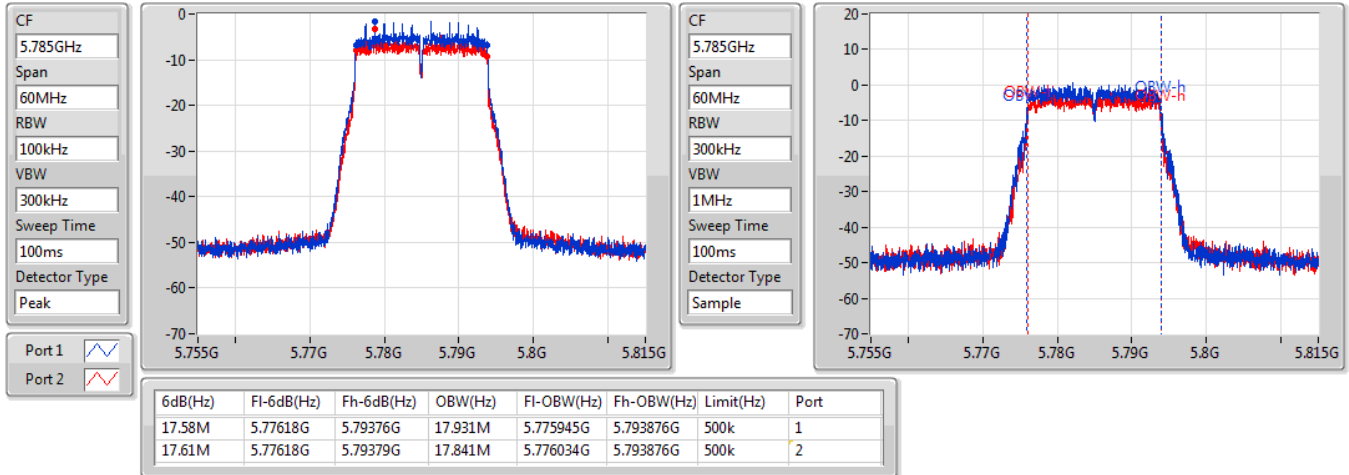

802.11n HT20_Nss2,(MCS0)_2TX
EBW
5745MHz

07/04/2021

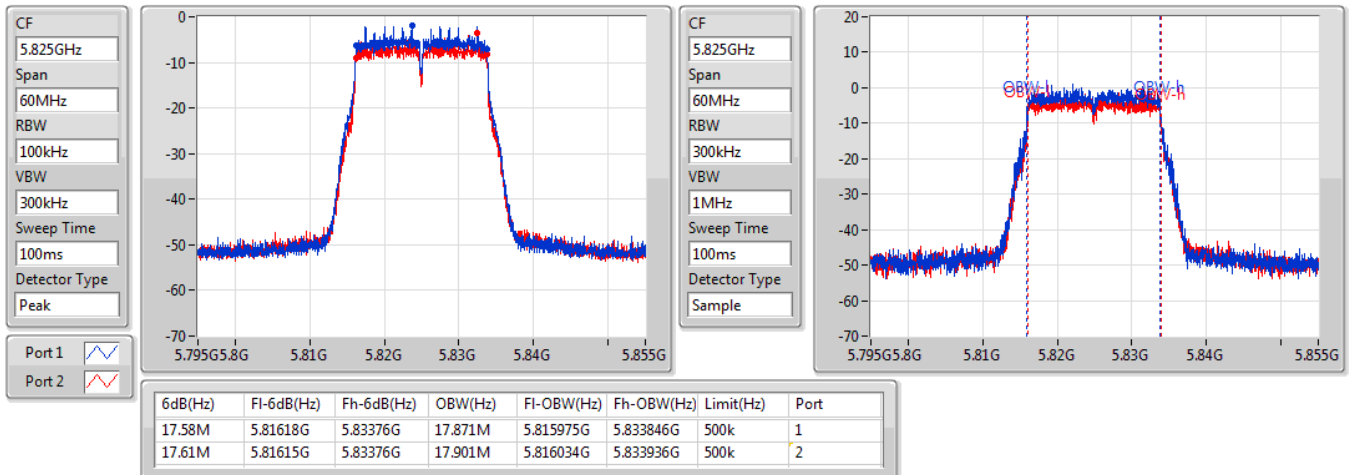


802.11n HT20_Nss2,(MCS0)_2TX
EBW
5785MHz

07/04/2021

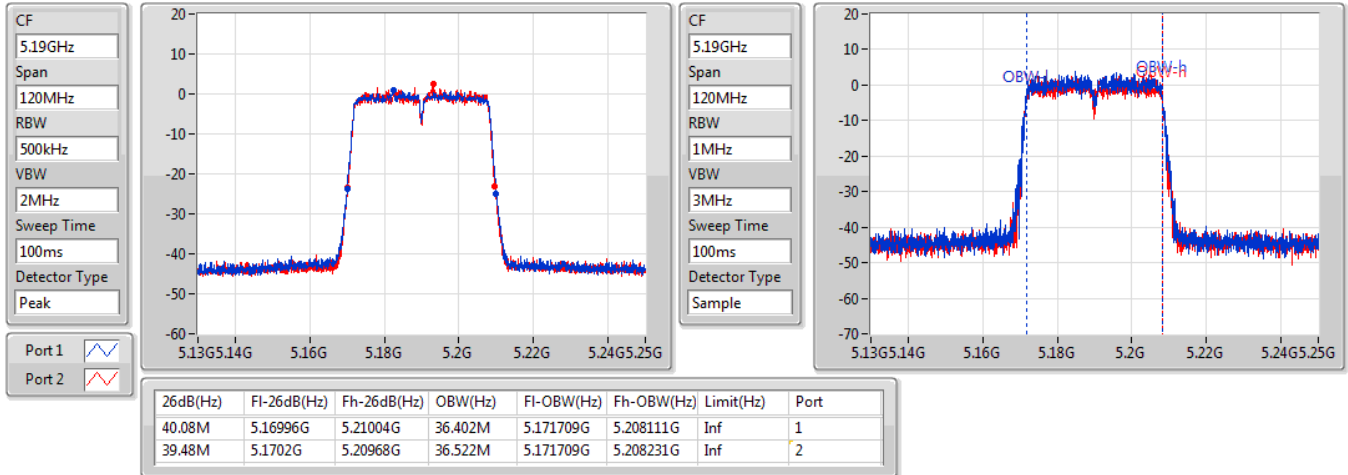

802.11n HT20_Nss2,(MCS0)_2TX
EBW
5825MHz

07/04/2021

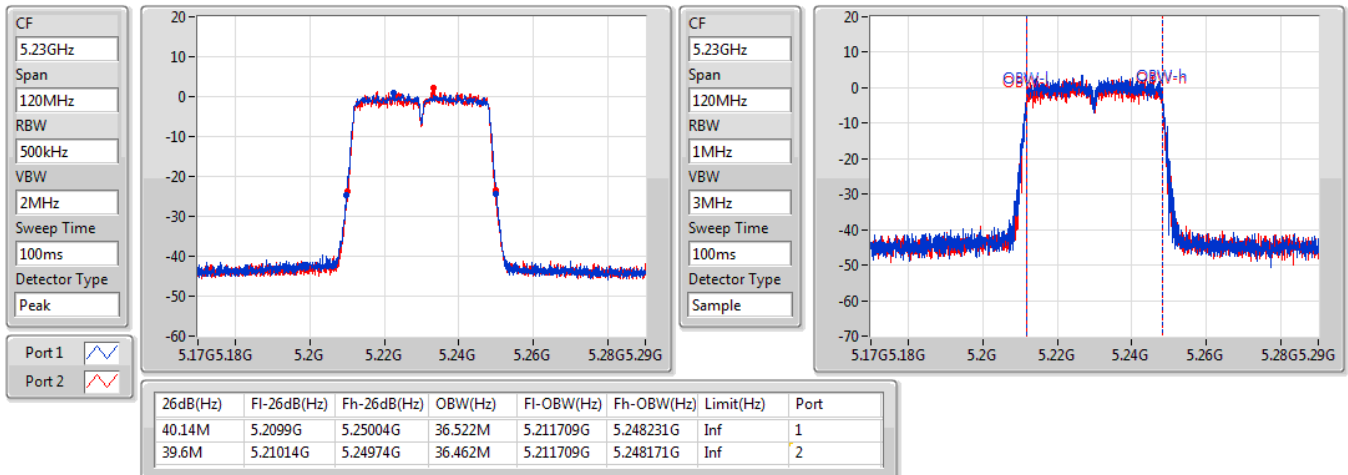


802.11n HT40_Nss2,(MCS0)_2TX
EBW
5190MHz

07/04/2021

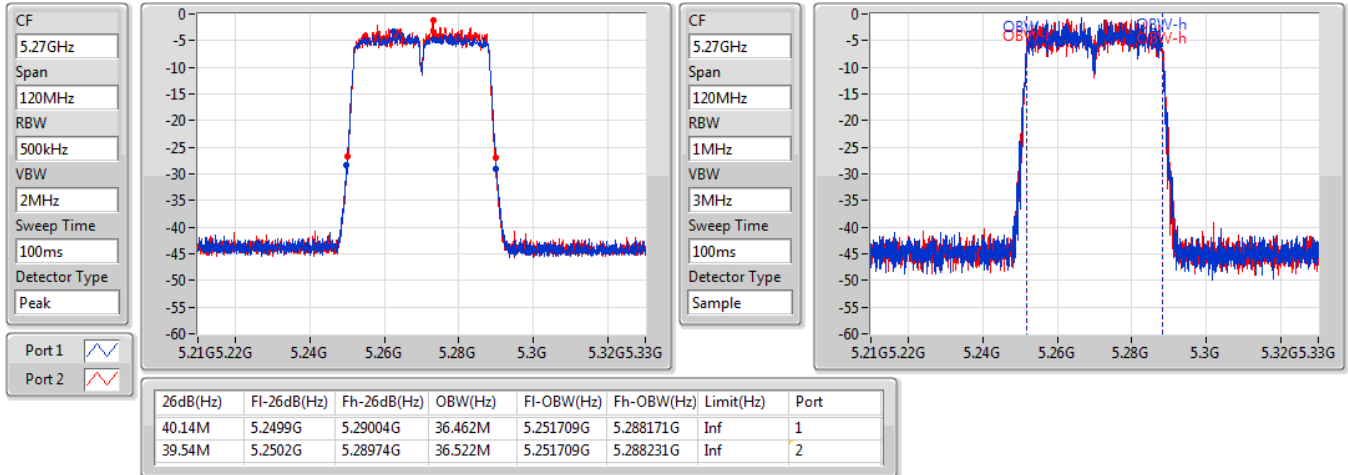

802.11n HT40_Nss2,(MCS0)_2TX
EBW
5230MHz

07/04/2021

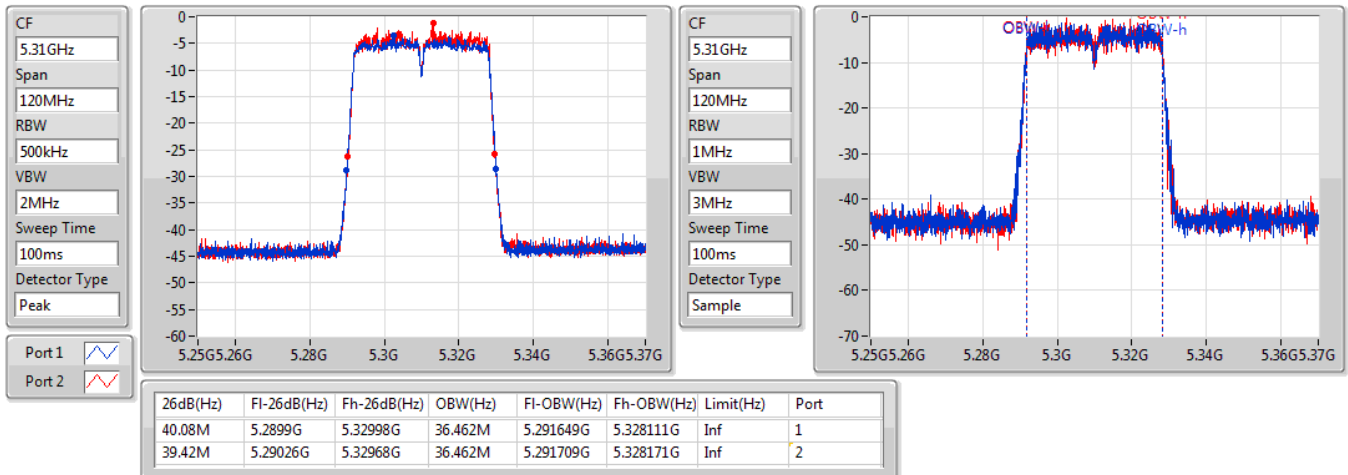


802.11n HT40_Nss2,(MCS0)_2TX
EBW
5270MHz

07/04/2021

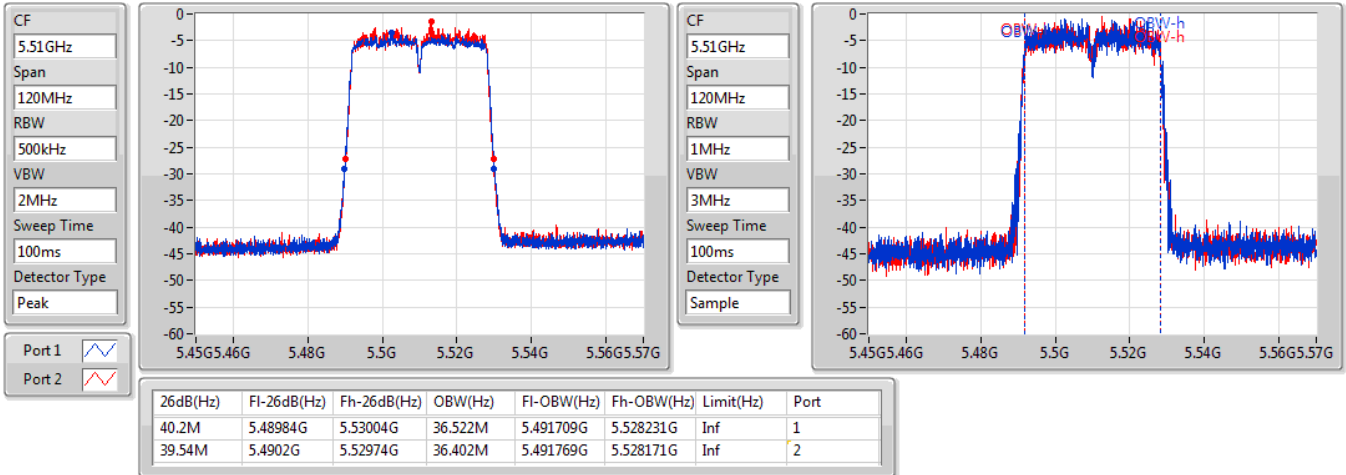

802.11n HT40_Nss2,(MCS0)_2TX
EBW
5310MHz

07/04/2021

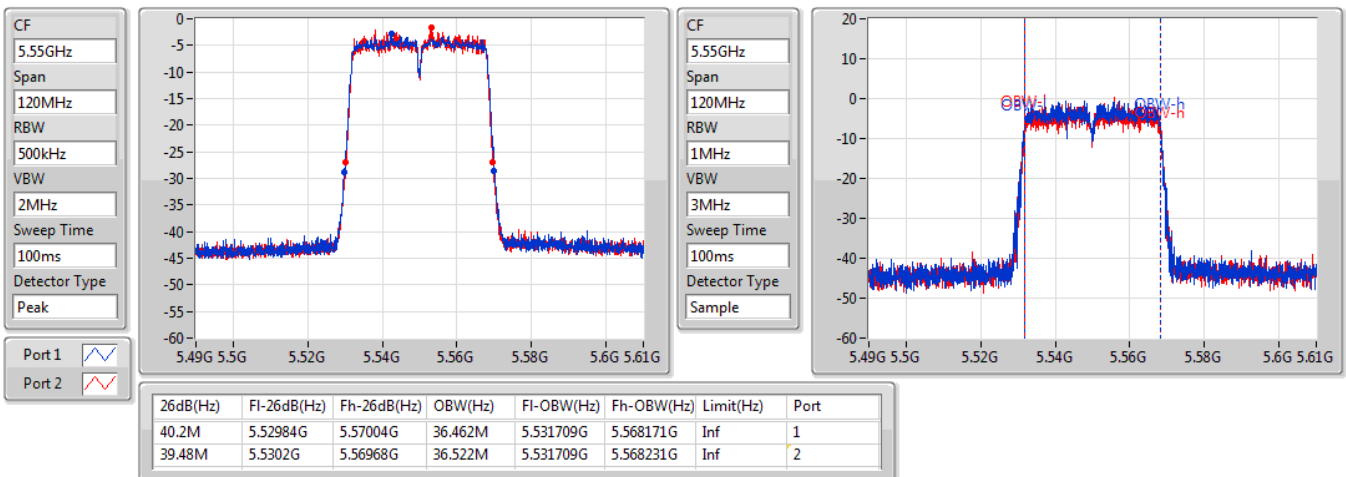


802.11n HT40_Nss2,(MCS0)_2TX
EBW
5510MHz

07/04/2021

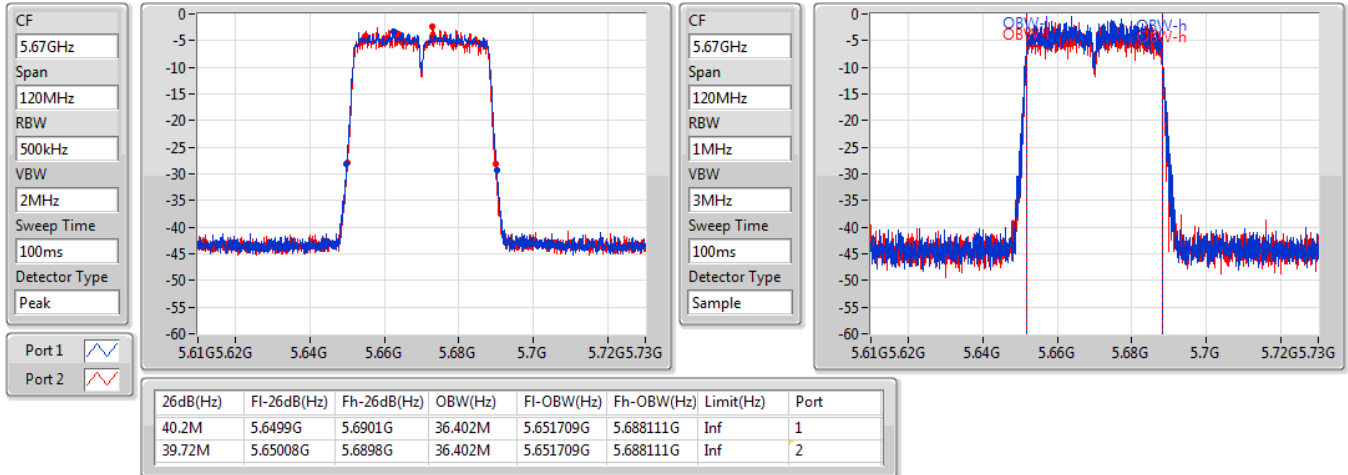

802.11n HT40_Nss2,(MCS0)_2TX
EBW
5550MHz

07/04/2021

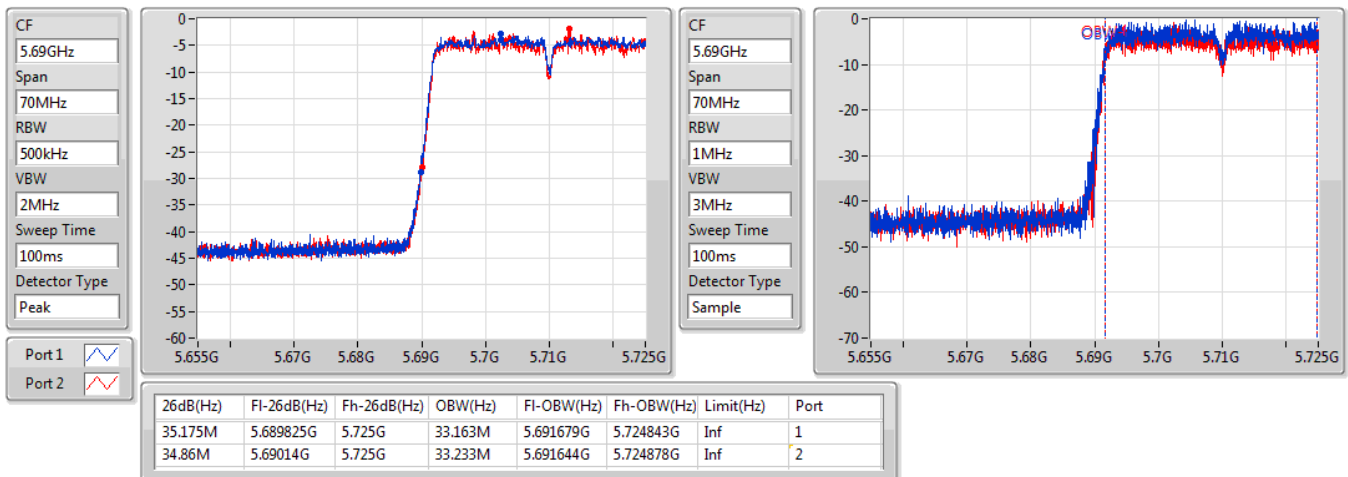


802.11n HT40_Nss2,(MCS0)_2TX
EBW
5670MHz

07/04/2021

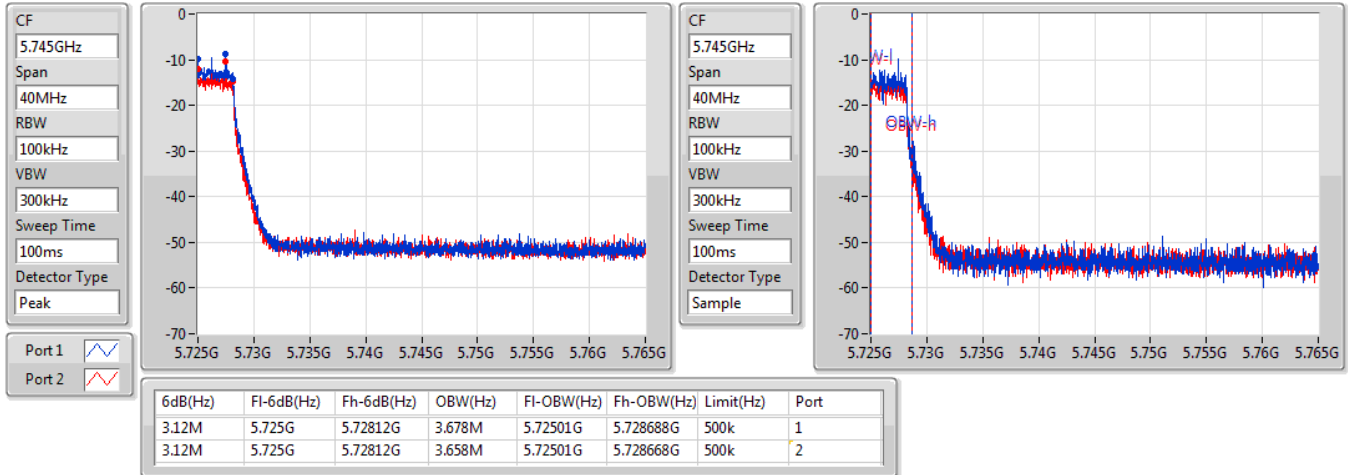

802.11n HT40_Nss2,(MCS0)_2TX
EBW
5710MHz Straddle 5.47-5.725GHz

07/04/2021

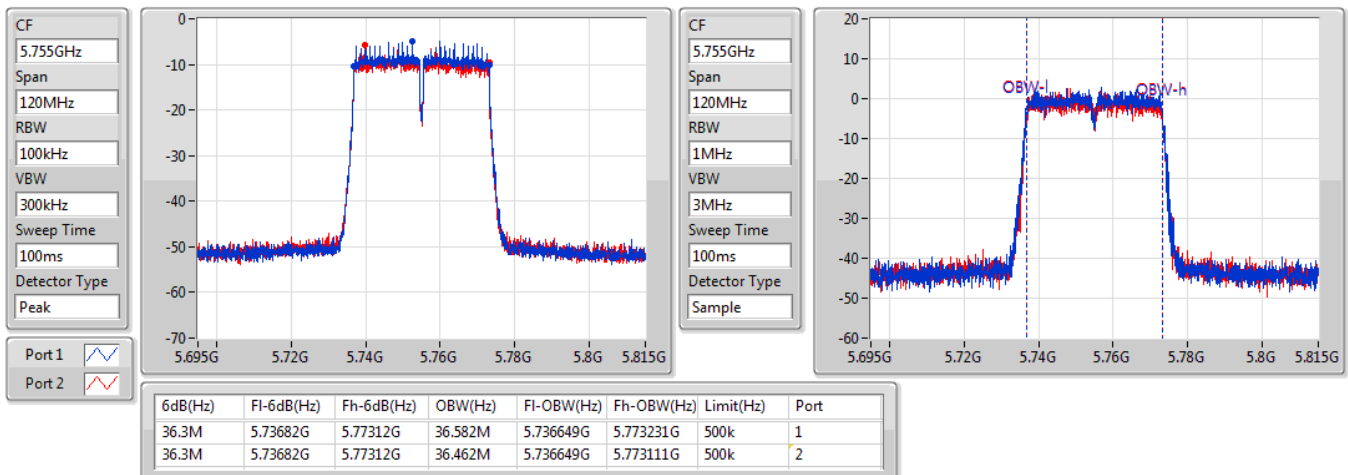


802.11n HT40_Nss2,(MCS0)_2TX
EBW
5710MHz Straddle 5.725-5.85GHz

07/04/2021

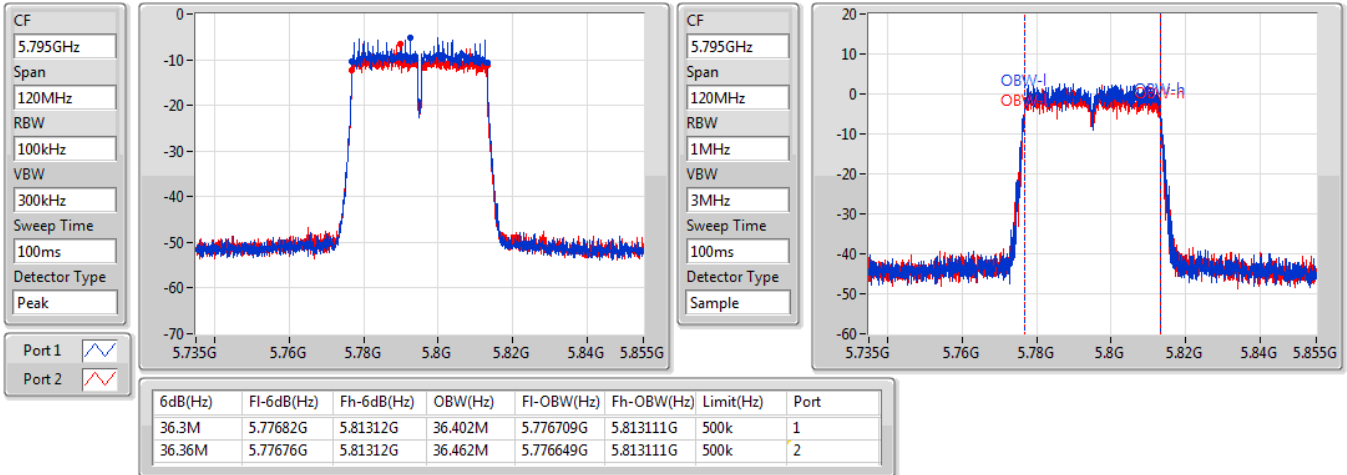

802.11n HT40_Nss2,(MCS0)_2TX
EBW
5755MHz

07/04/2021

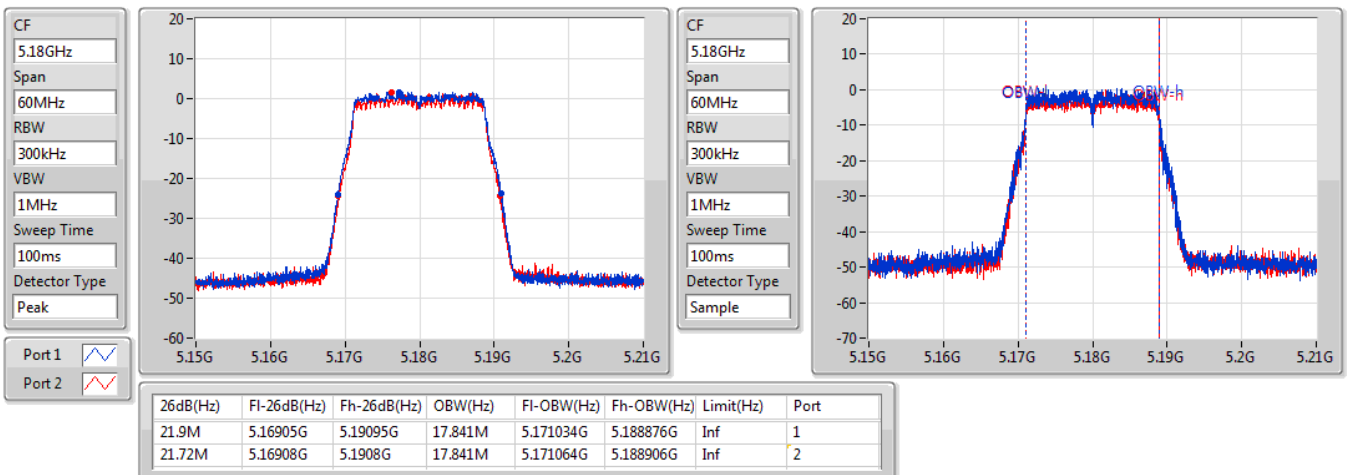


802.11n HT40_Nss2,(MCS0)_2TX
EBW
5795MHz

07/04/2021

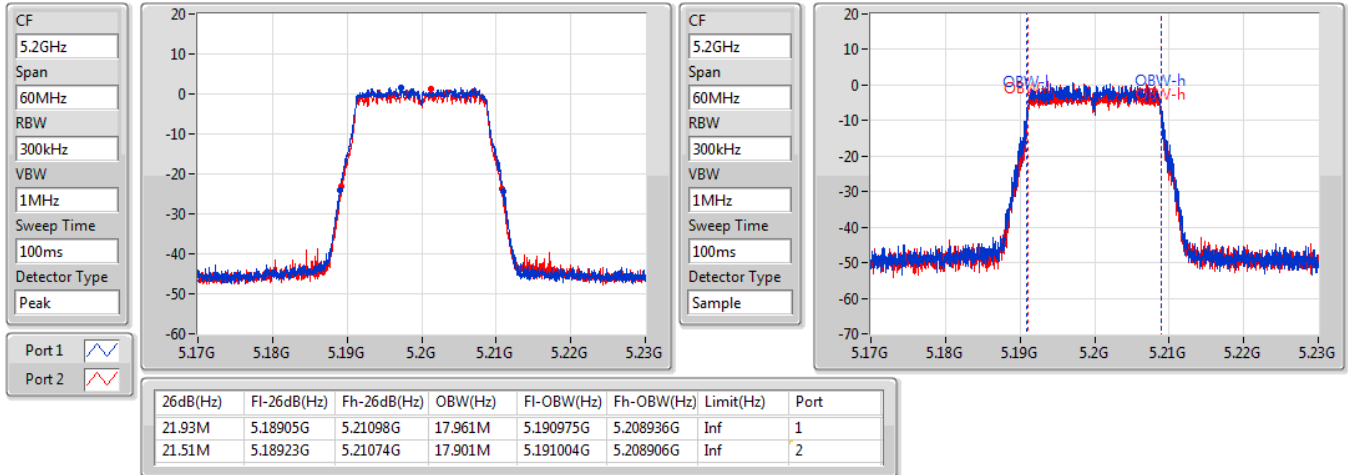

802.11ac VHT20_Nss2,(MCS0)_2TX
EBW
5180MHz

07/04/2021

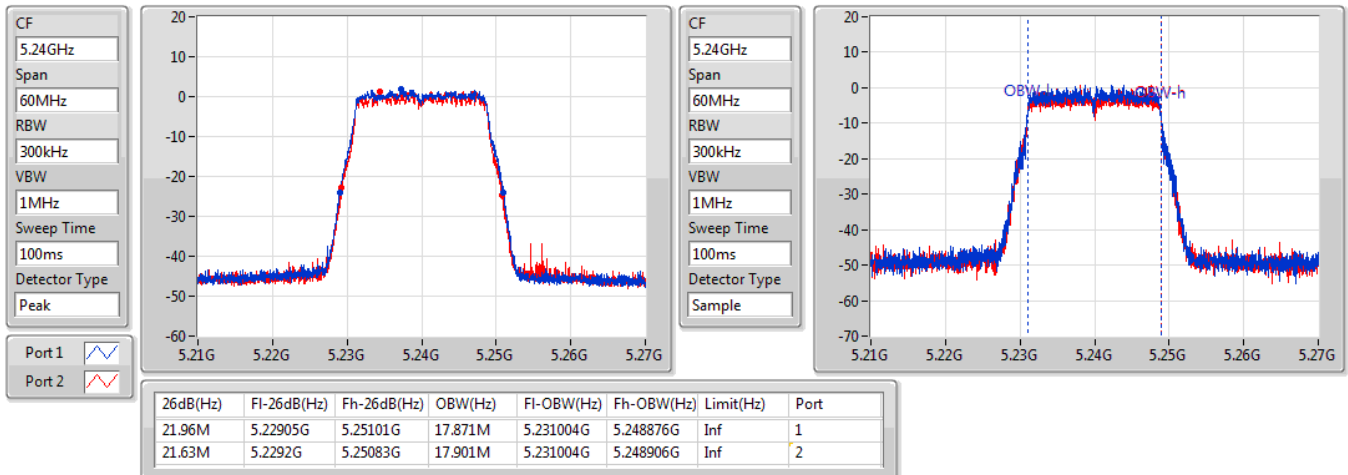


802.11ac VHT20_Nss2,(MCS0)_2TX
EBW
5200MHz

07/04/2021

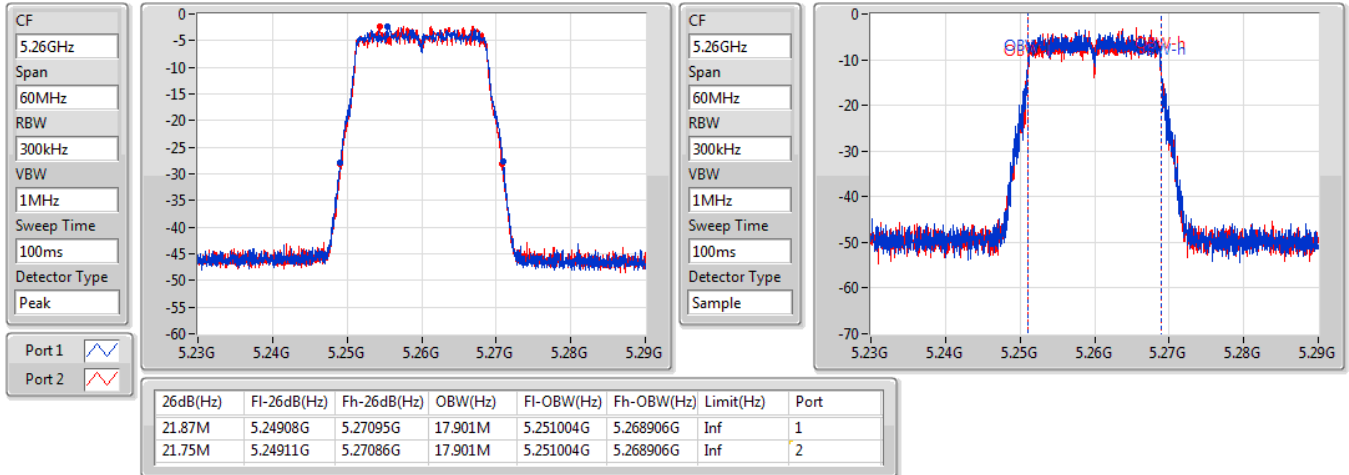

802.11ac VHT20_Nss2,(MCS0)_2TX
EBW
5240MHz

07/04/2021

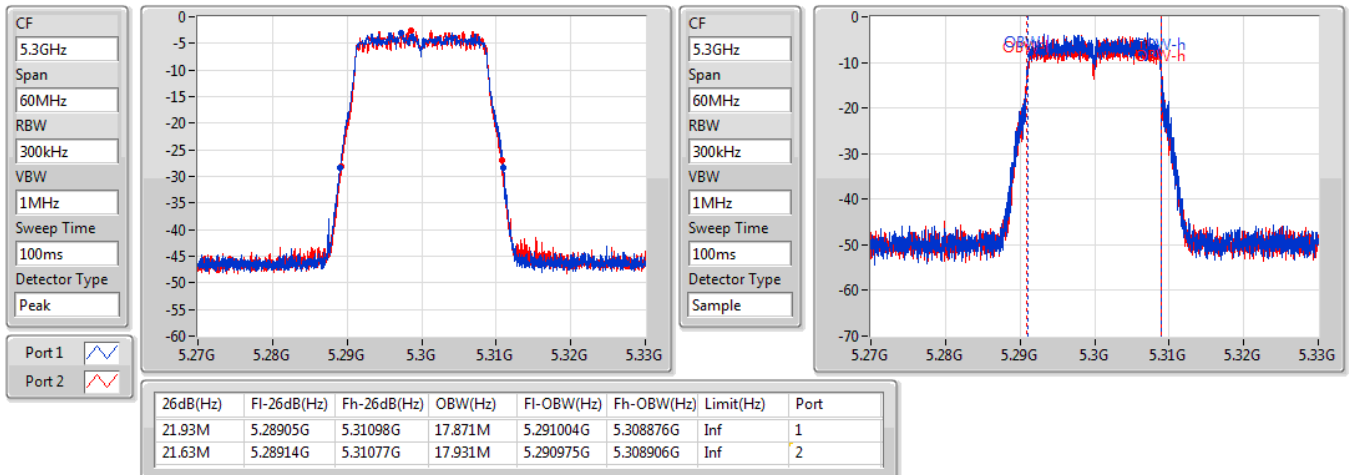


802.11ac VHT20_Nss2,(MCS0)_2TX
EBW
5260MHz

07/04/2021

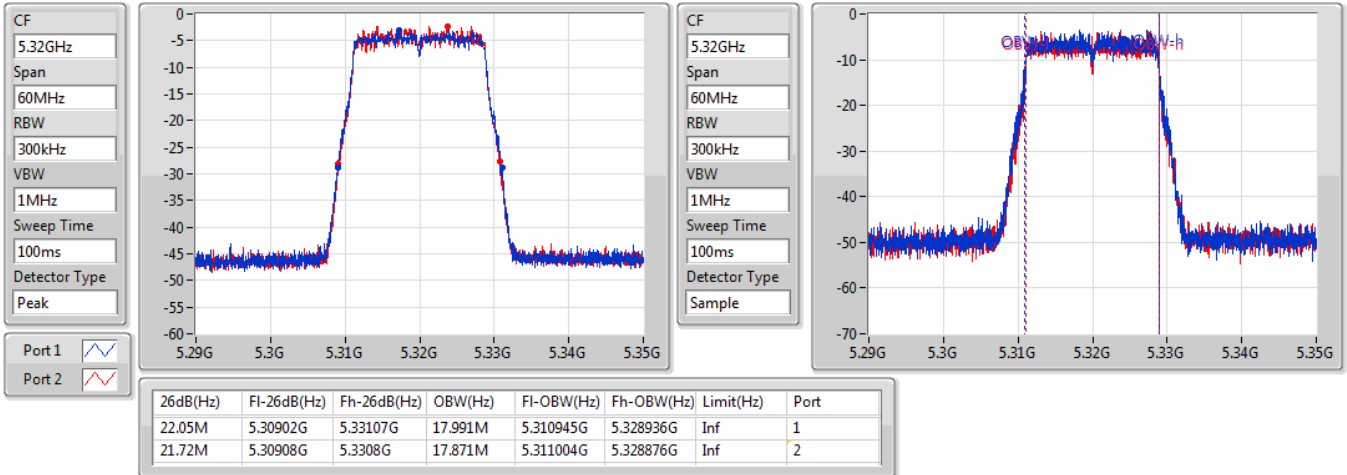

802.11ac VHT20_Nss2,(MCS0)_2TX
EBW
5300MHz

07/04/2021

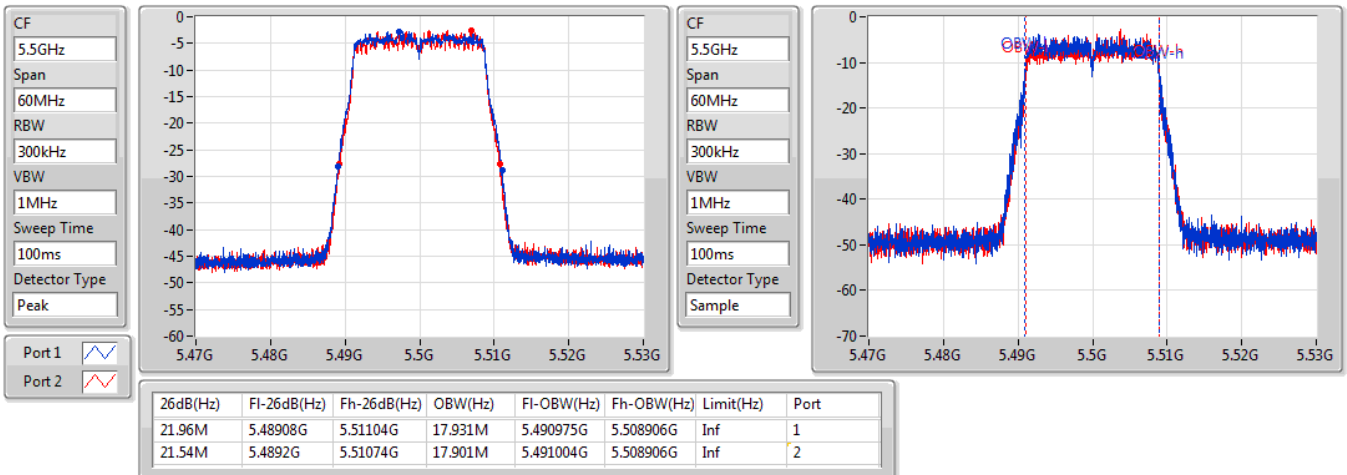


802.11ac VHT20_Nss2,(MCS0)_2TX
EBW
5320MHz

07/04/2021

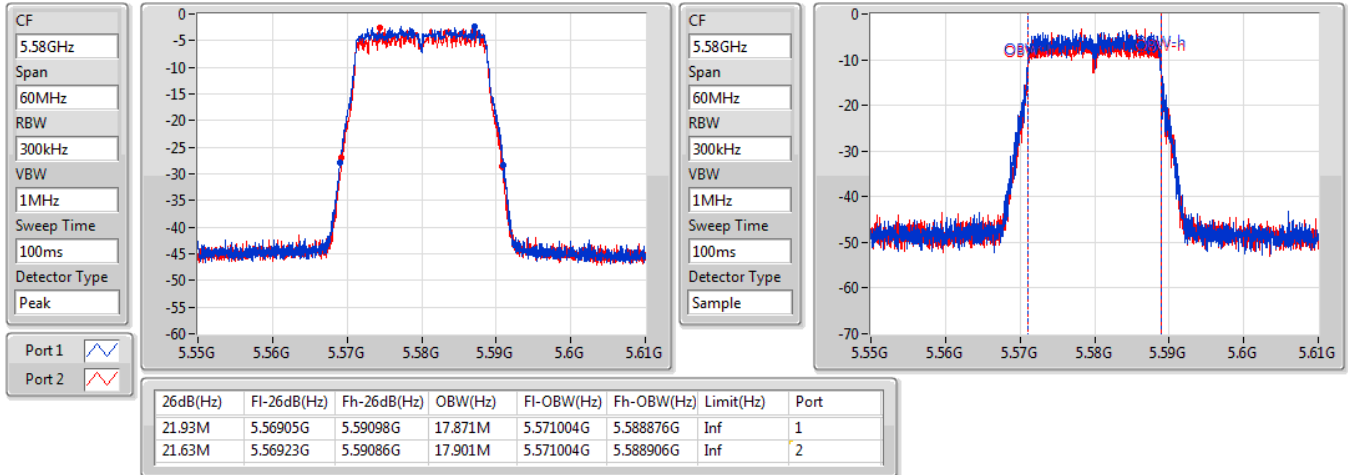

802.11ac VHT20_Nss2,(MCS0)_2TX
EBW
5500MHz

07/04/2021

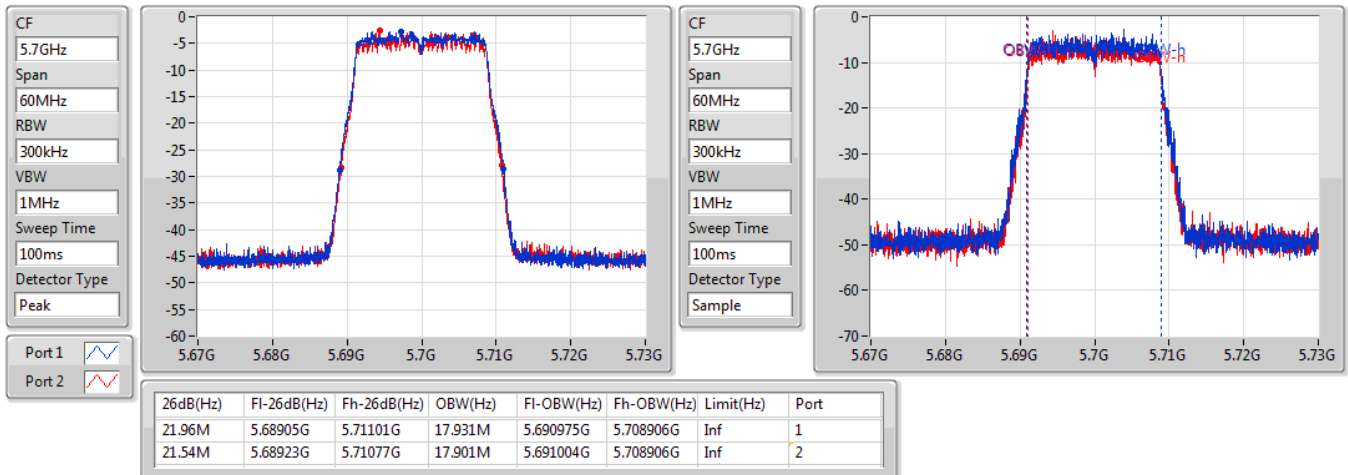


802.11ac VHT20_Nss2,(MCS0)_2TX
EBW
5580MHz

07/04/2021

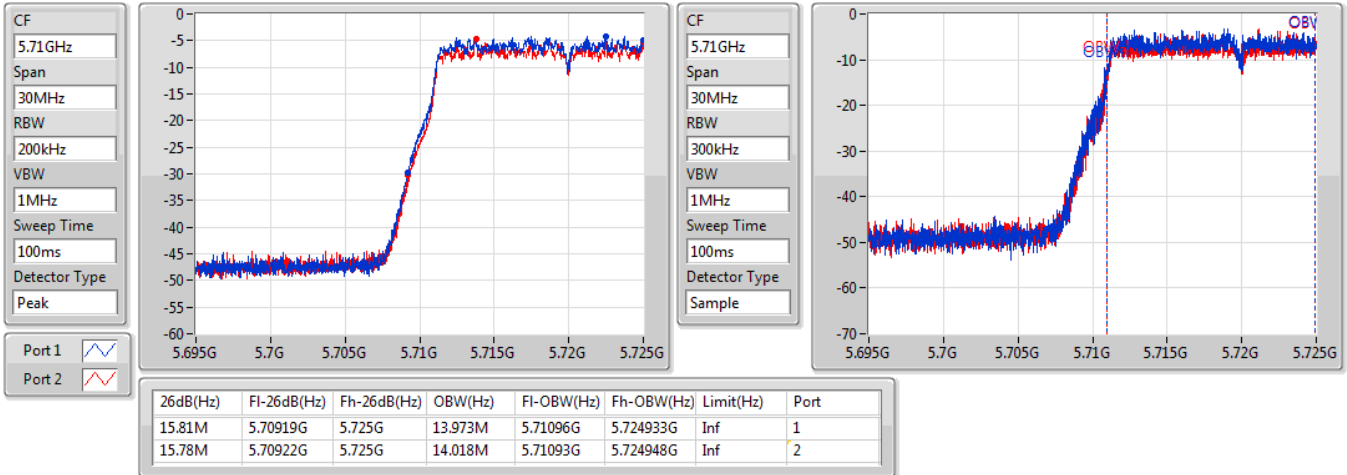

802.11ac VHT20_Nss2,(MCS0)_2TX
EBW
5700MHz

07/04/2021

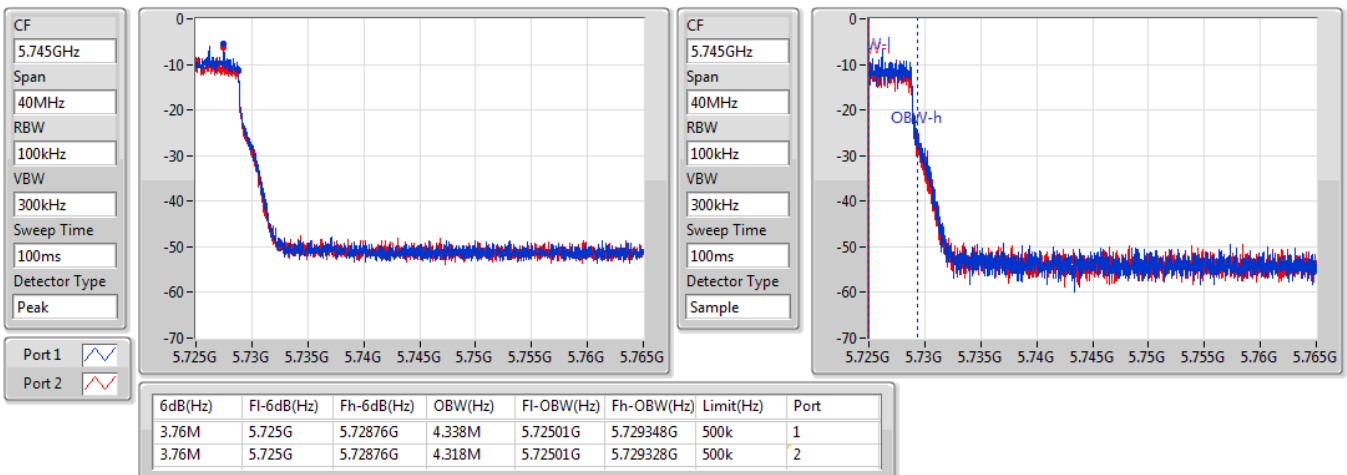


802.11ac VHT20_Nss2,(MCS0)_2TX
EBW
5720MHz Straddle 5.47-5.725GHz

07/04/2021

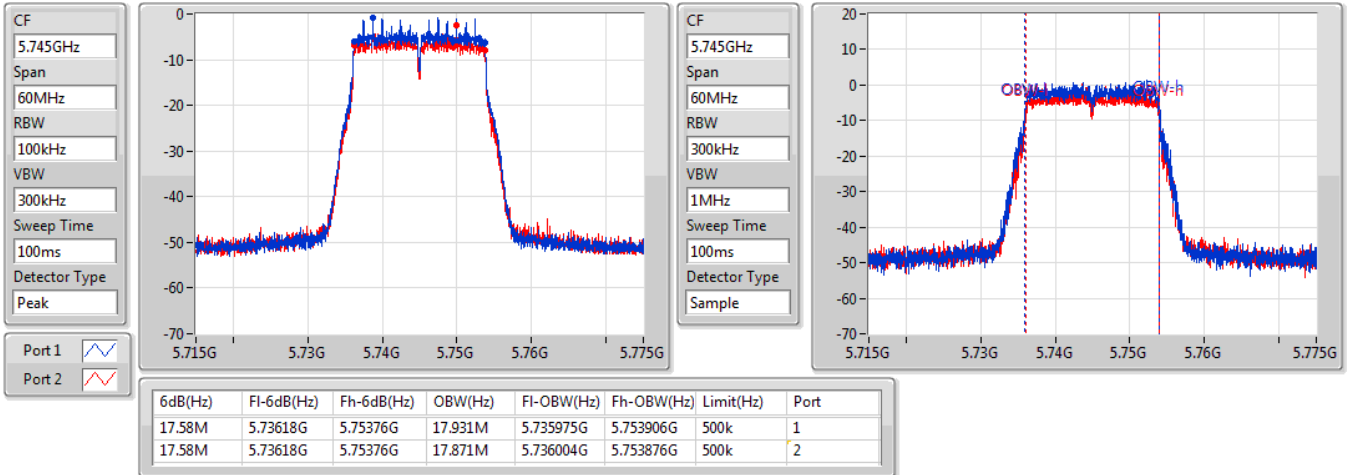

802.11ac VHT20_Nss2,(MCS0)_2TX
EBW
5720MHz Straddle 5.725-5.85GHz

07/04/2021

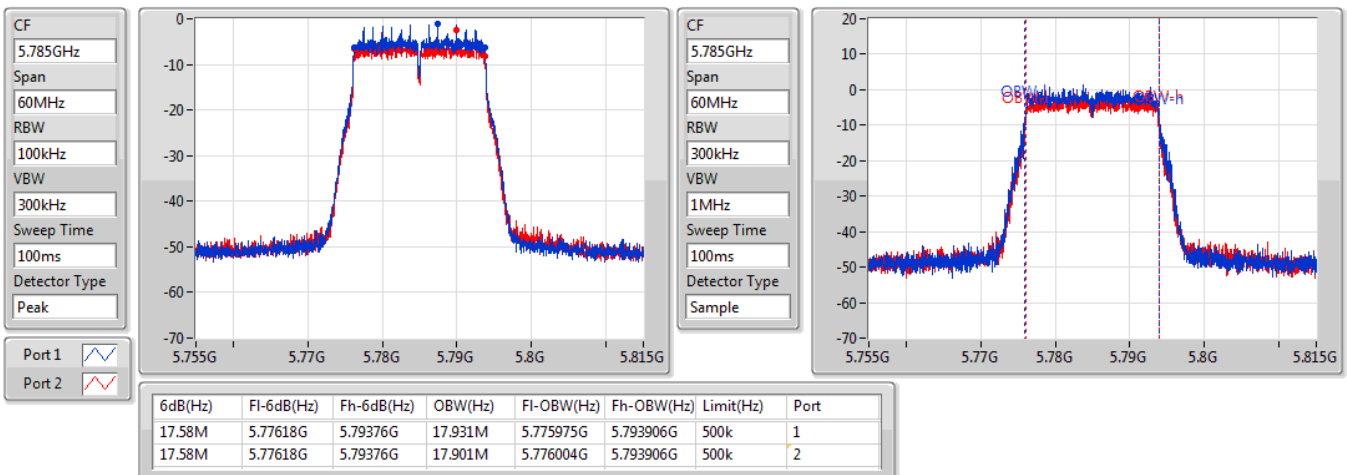


802.11ac VHT20_Nss2,(MCS0)_2TX
EBW
5745MHz

07/04/2021

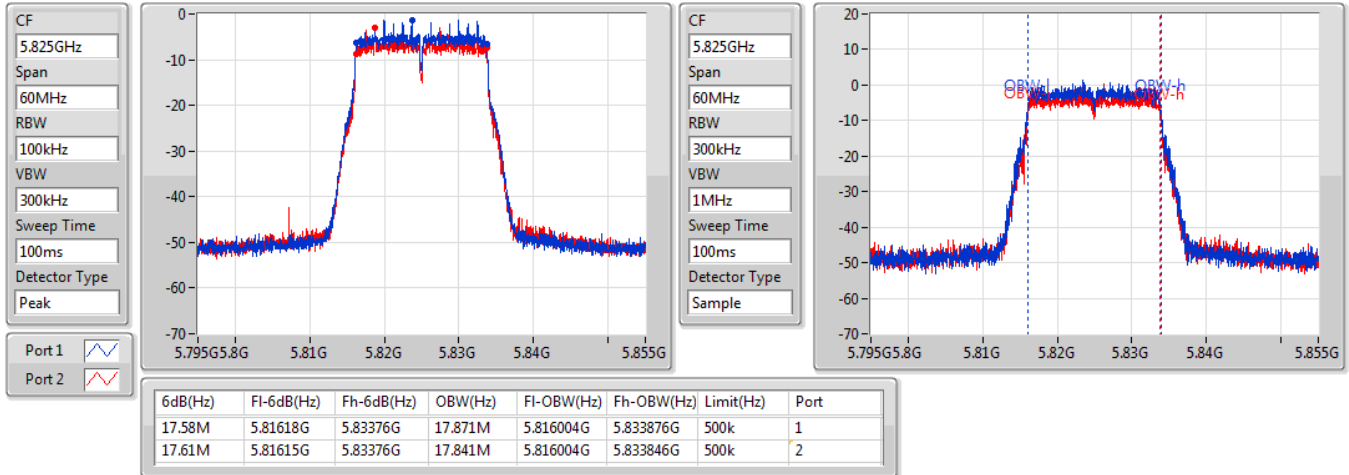

802.11ac VHT20_Nss2,(MCS0)_2TX
EBW
5785MHz

07/04/2021

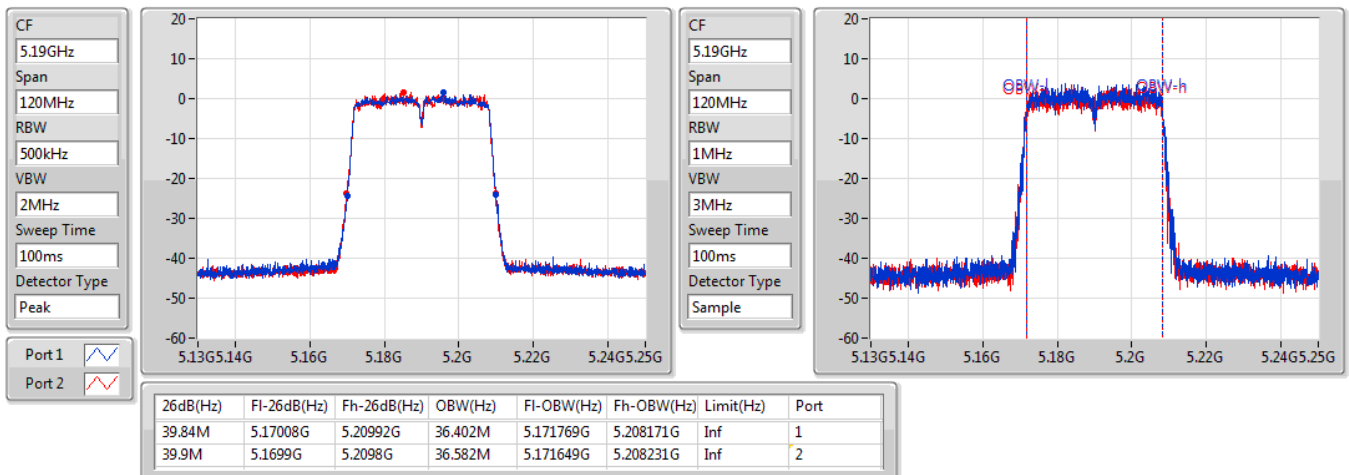


802.11ac VHT20_Nss2,(MCS0)_2TX
EBW
5825MHz

07/04/2021

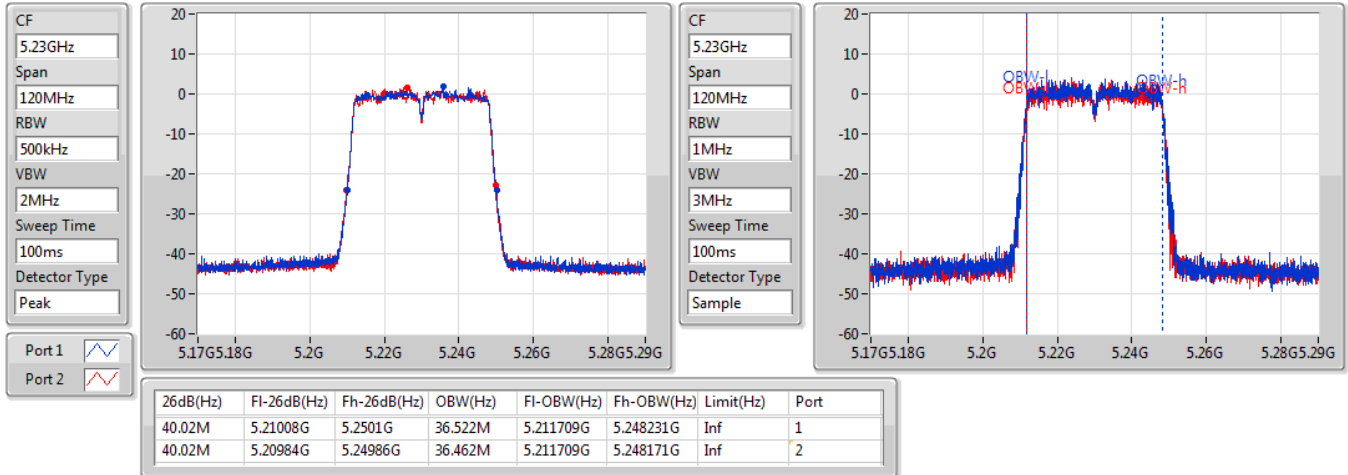

802.11ac VHT40_Nss2,(MCS0)_2TX
EBW
5190MHz

07/04/2021

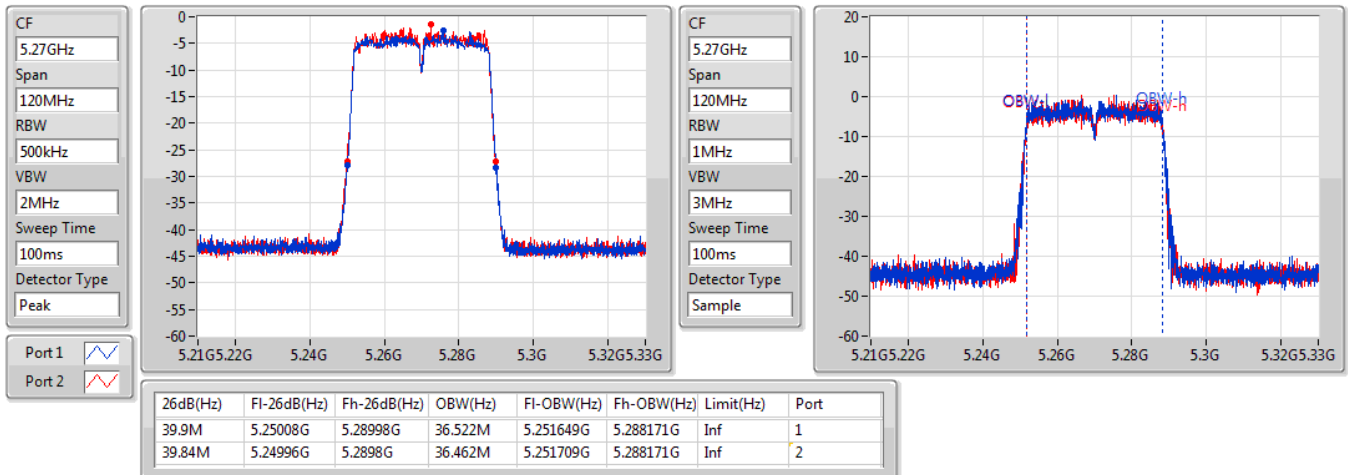


802.11ac VHT40_Nss2,(MCS0)_2TX
EBW
5230MHz

07/04/2021


802.11ac VHT40_Nss2,(MCS0)_2TX
EBW
5270MHz

07/04/2021

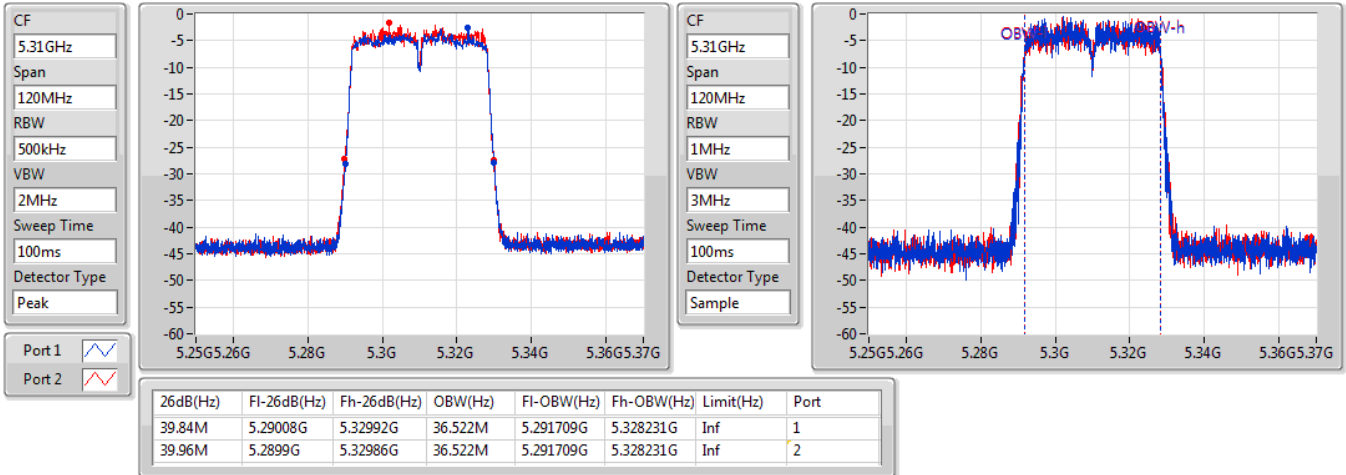


802.11ac VHT40_Nss2,(MCS0)_2TX

EBW

5310MHz

07/04/2021

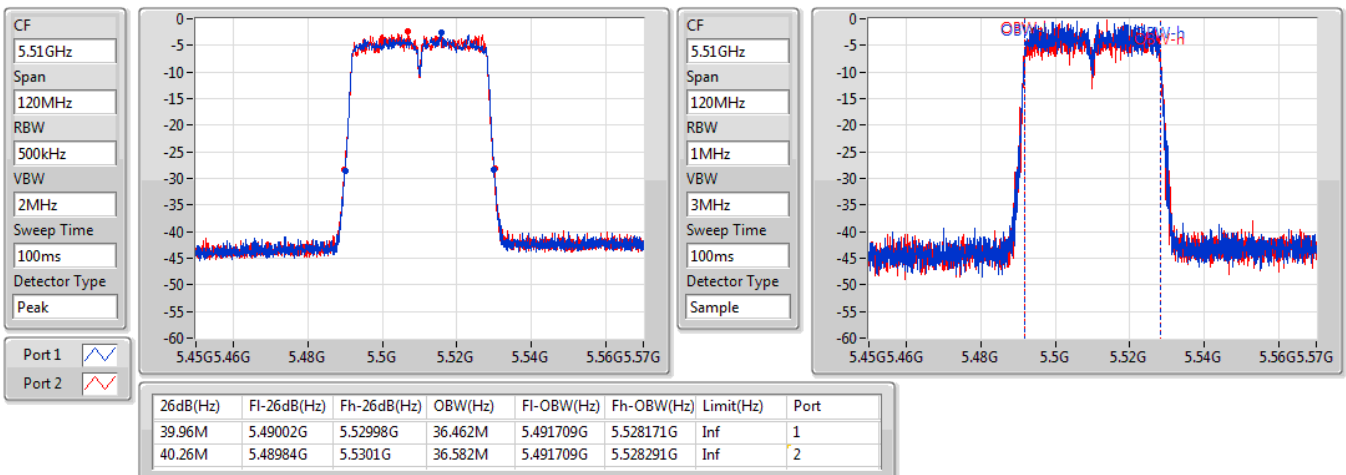


802.11ac VHT40_Nss2,(MCS0)_2TX

EBW

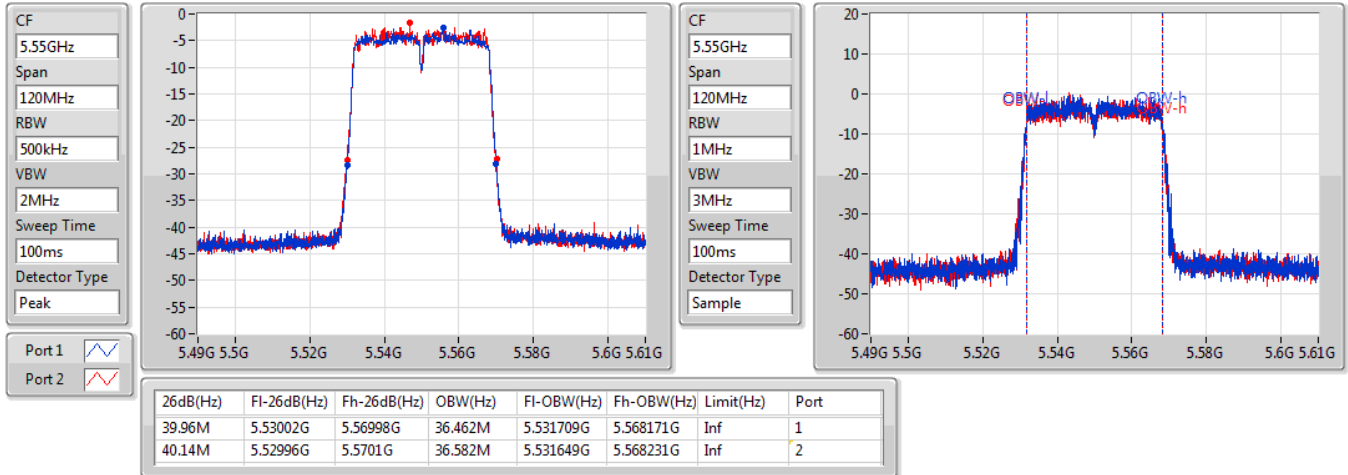
5510MHz

07/04/2021

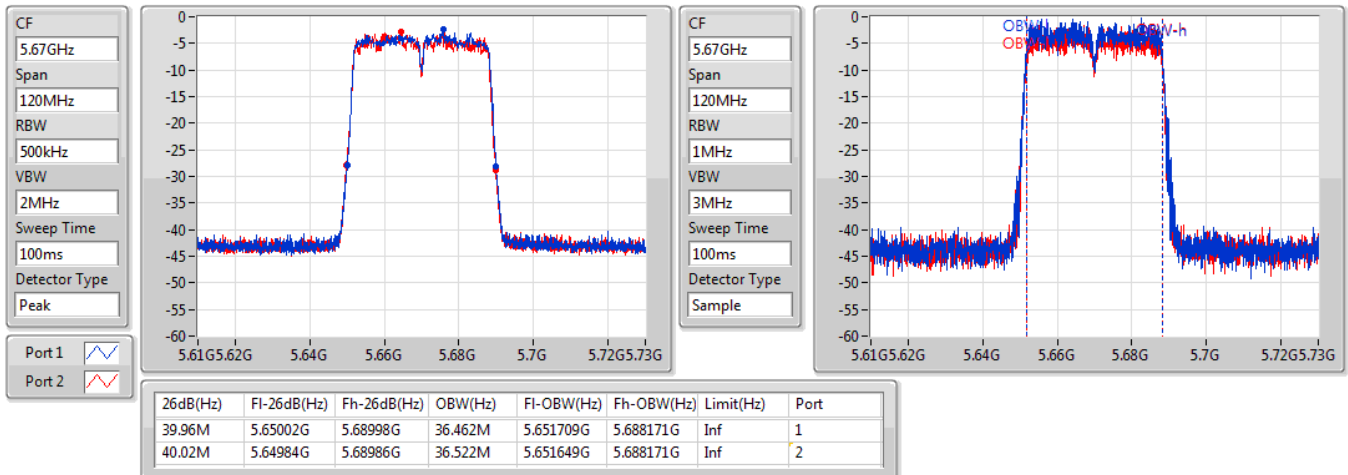


802.11ac VHT40_Nss2,(MCS0)_2TX
EBW
5550MHz

07/04/2021

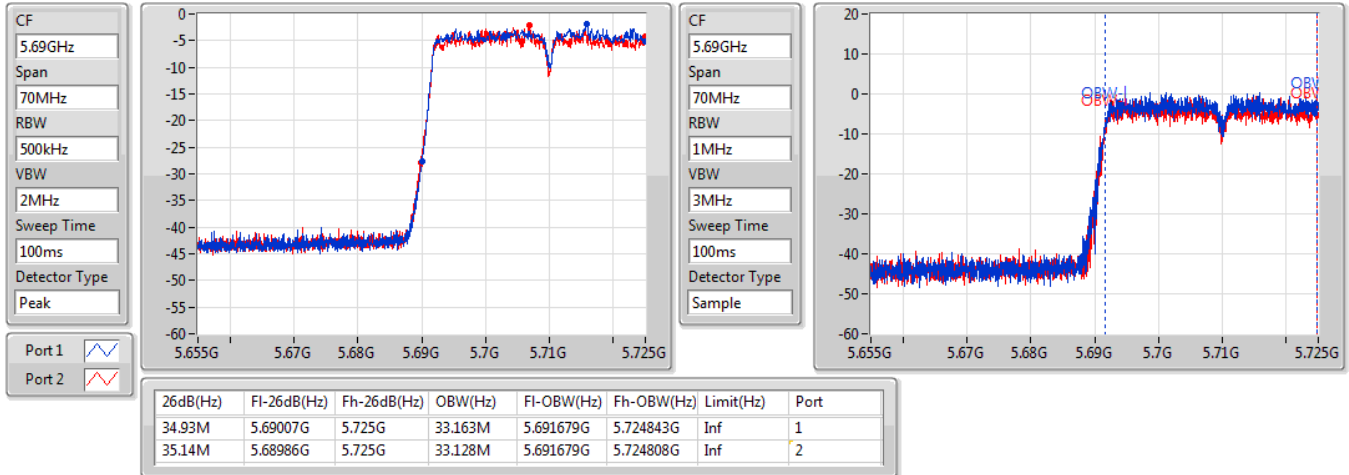

802.11ac VHT40_Nss2,(MCS0)_2TX
EBW
5670MHz

07/04/2021

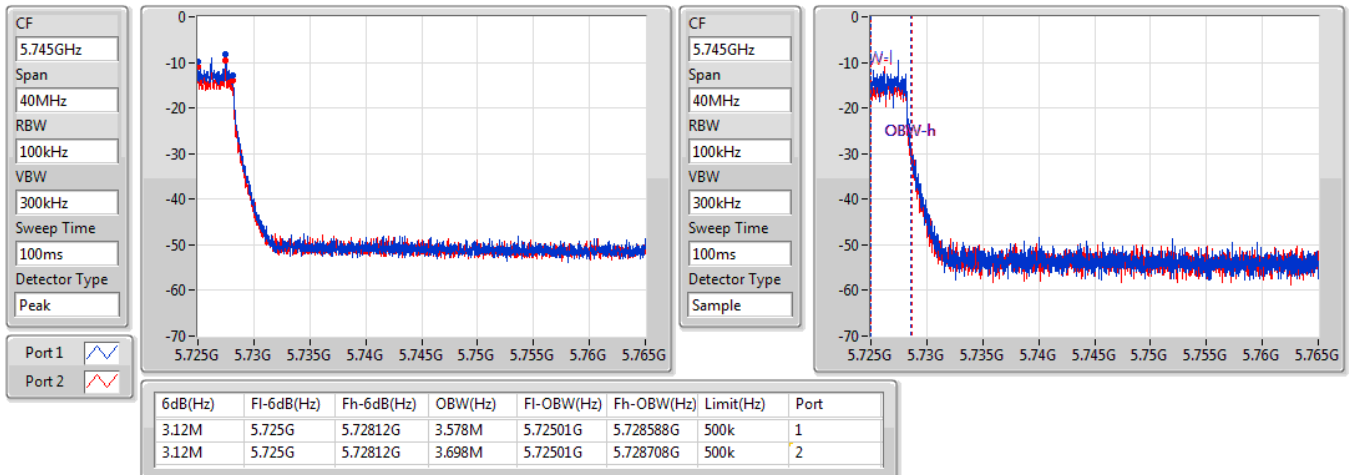


802.11ac VHT40_Nss2,(MCS0)_2TX
EBW
5710MHz Straddle 5.47-5.725GHz

07/04/2021


802.11ac VHT40_Nss2,(MCS0)_2TX
EBW
5710MHz Straddle 5.725-5.85GHz

07/04/2021

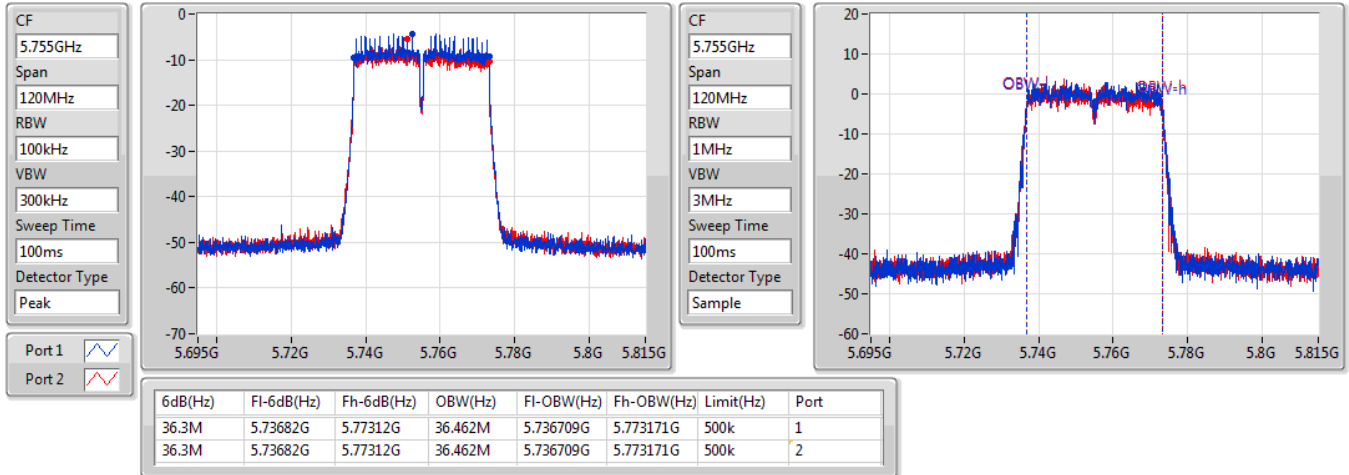


802.11ac VHT40_Nss2,(MCS0)_2TX

EBW

5755MHz

07/04/2021

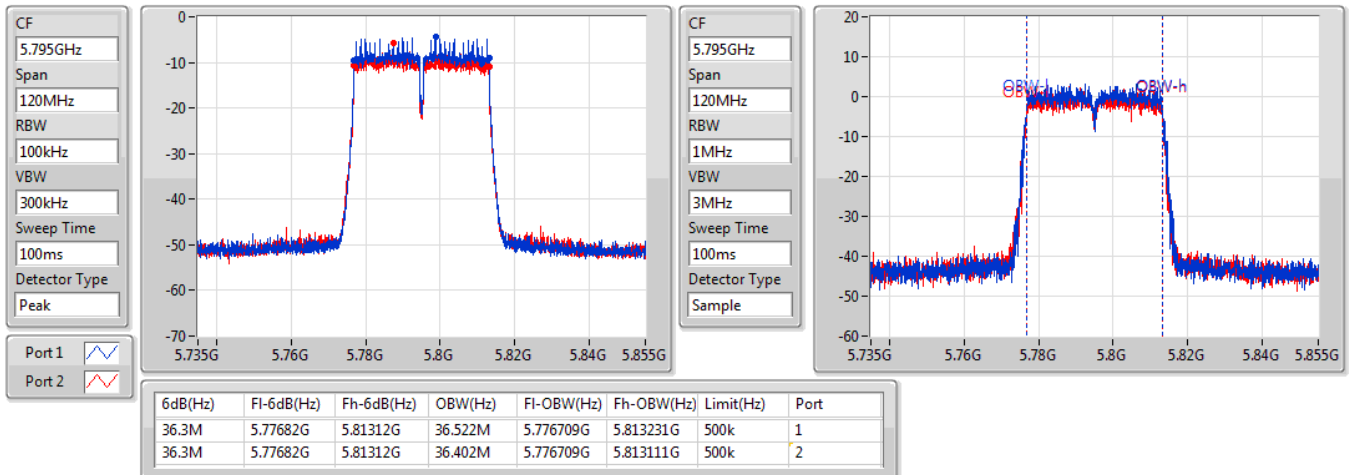


802.11ac VHT40_Nss2,(MCS0)_2TX

EBW

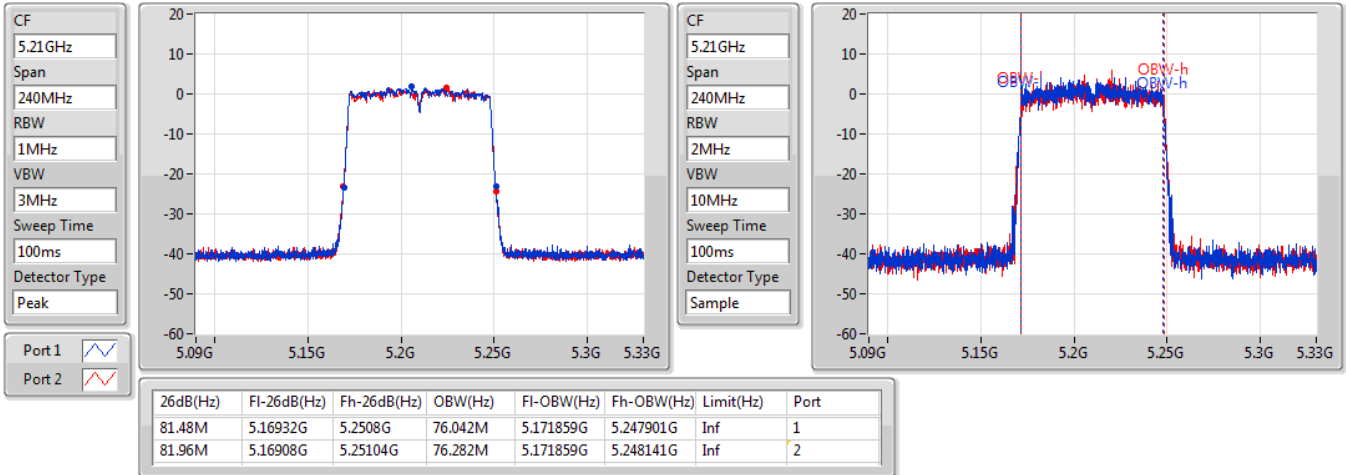
5795MHz

07/04/2021

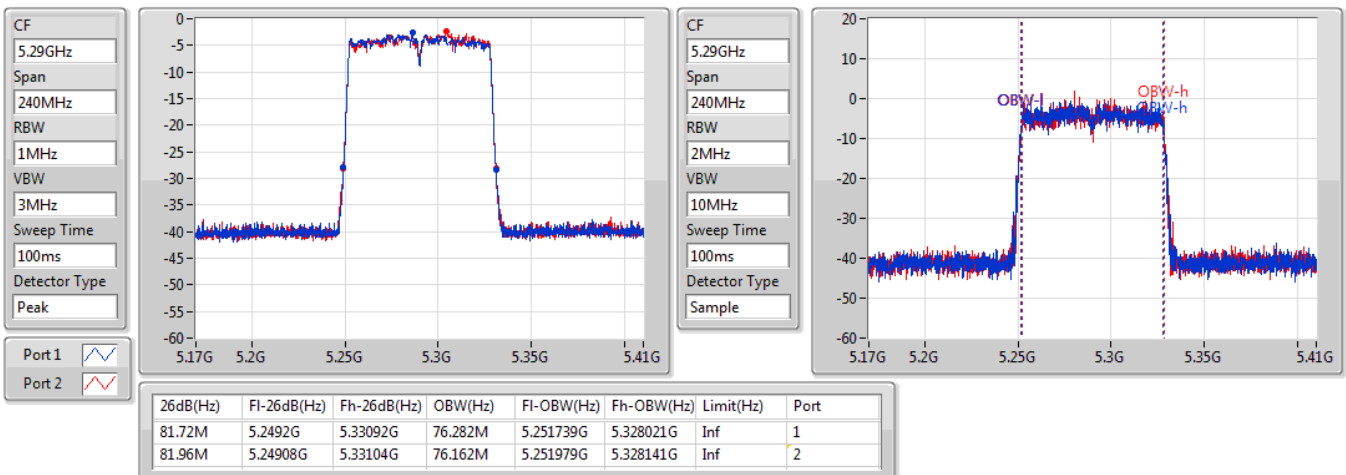


802.11ac VHT80_Nss2,(MCS0)_2TX
EBW
5210MHz

07/04/2021

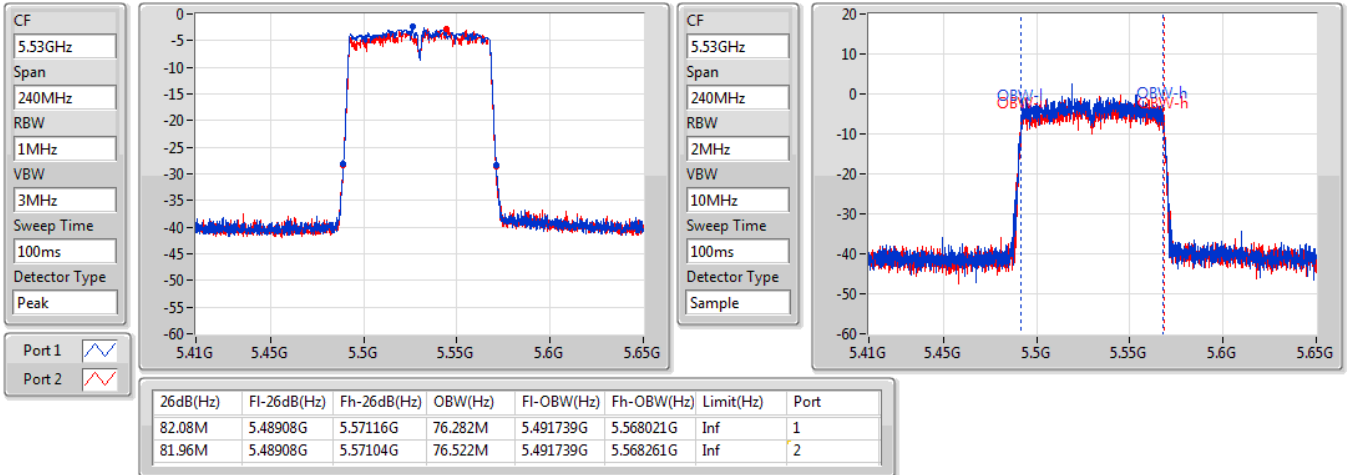

802.11ac VHT80_Nss2,(MCS0)_2TX
EBW
5290MHz

07/04/2021

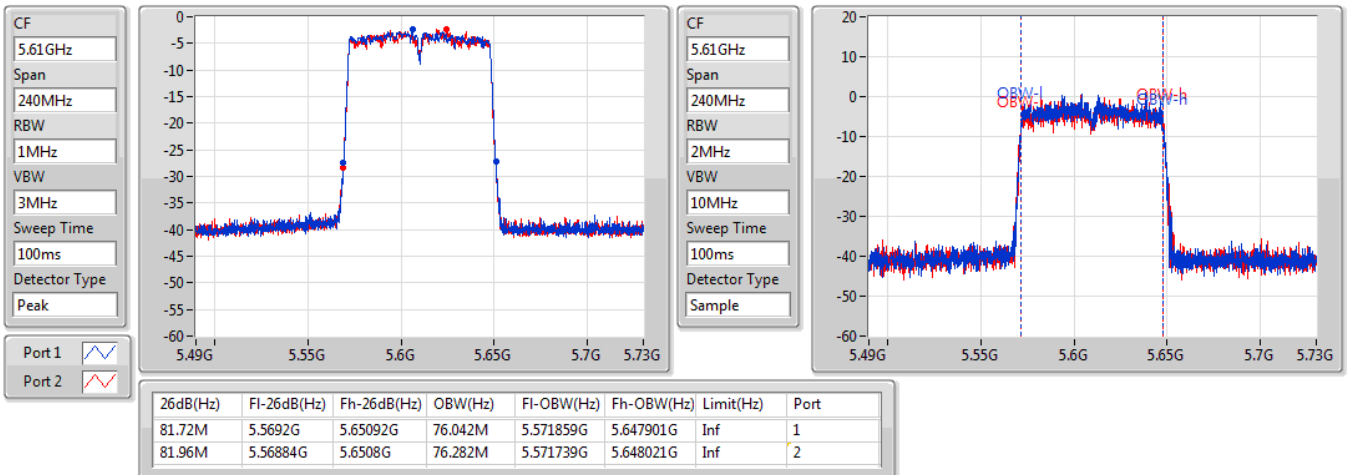


802.11ac VHT80_Nss2,(MCS0)_2TX
EBW
5530MHz

07/04/2021

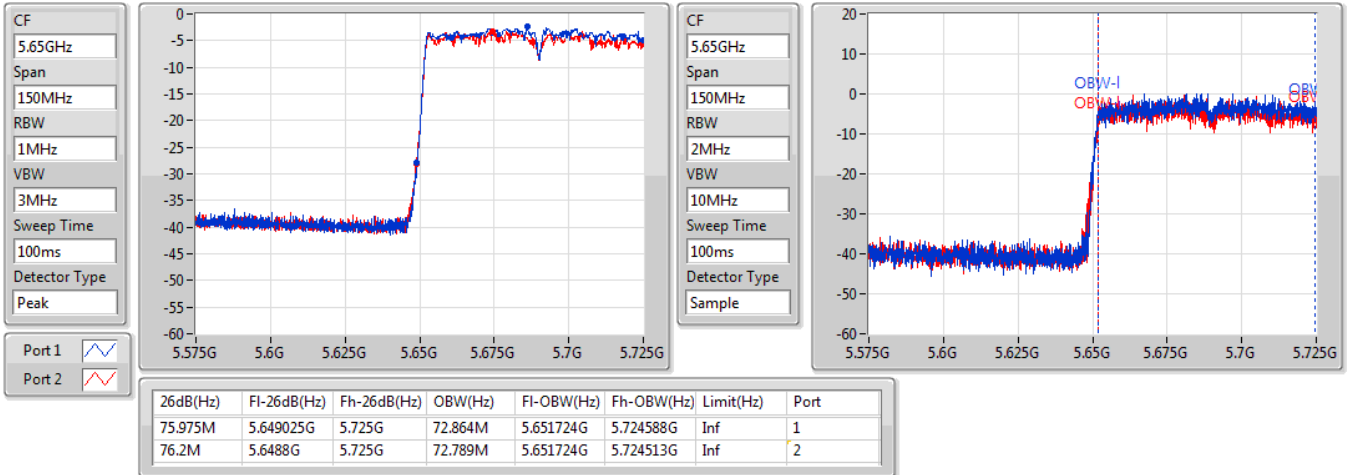

802.11ac VHT80_Nss2,(MCS0)_2TX
EBW
5610MHz

07/04/2021

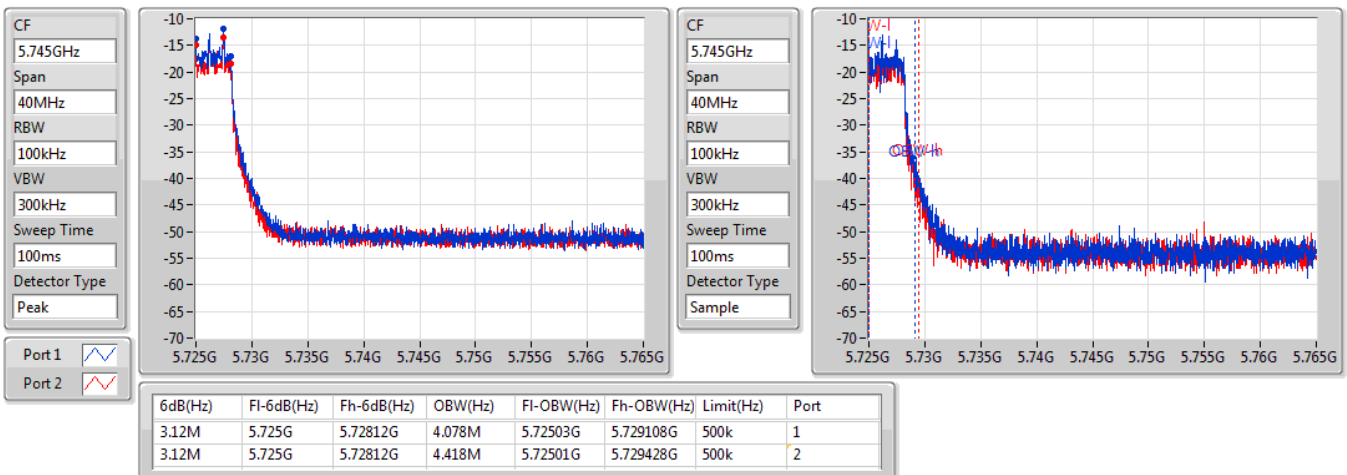


802.11ac VHT80_Nss2,(MCS0)_2TX
EBW
5690MHz Straddle 5.47-5.725GHz

07/04/2021

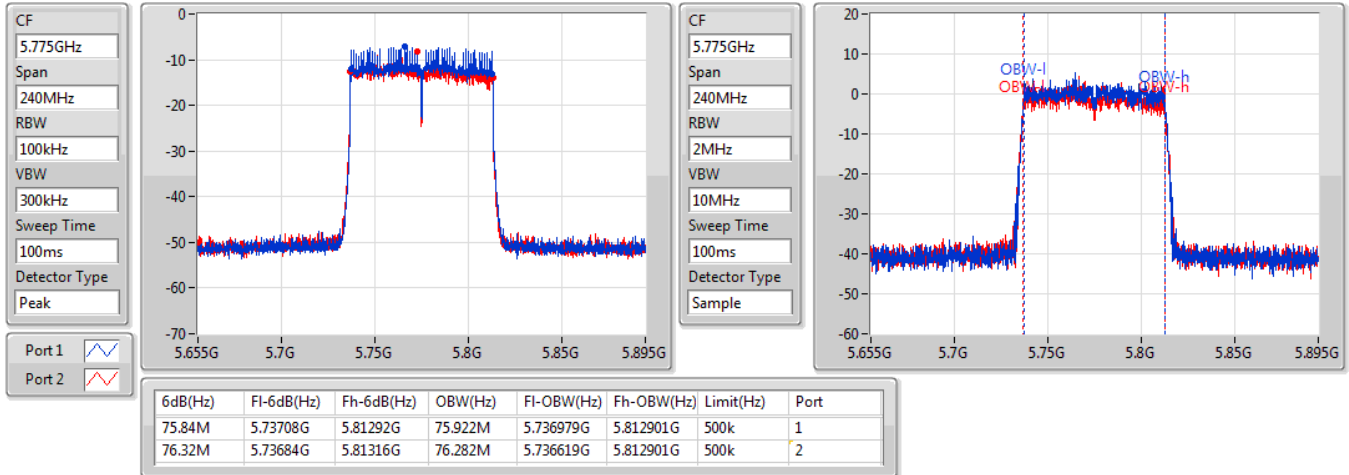

802.11ac VHT80_Nss2,(MCS0)_2TX
EBW
5690MHz Straddle 5.725-5.85GHz

07/04/2021

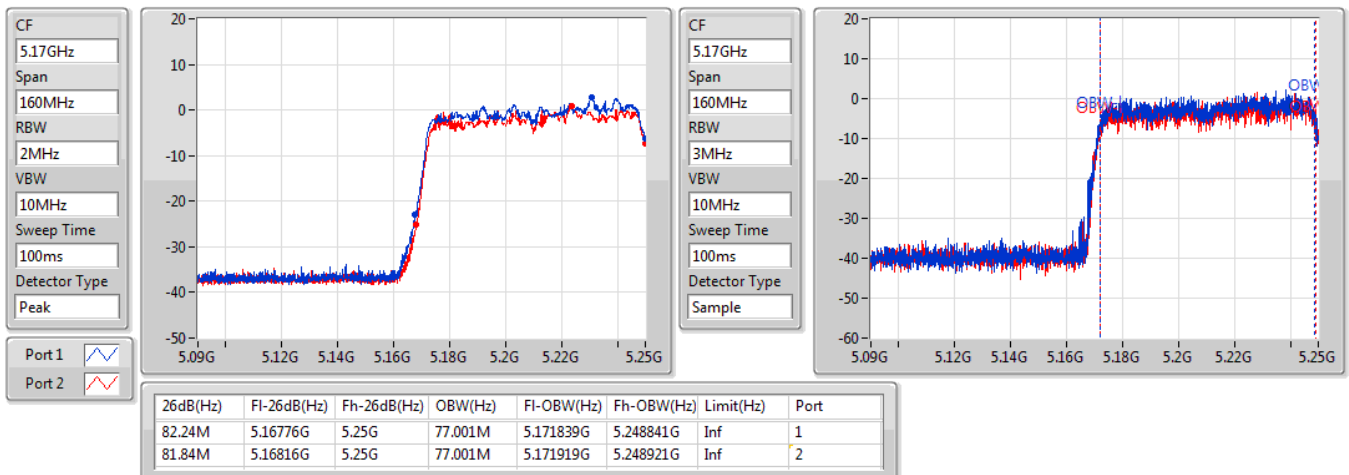


802.11ac VHT80_Nss2,(MCS0)_2TX
EBW
5775MHz

07/04/2021

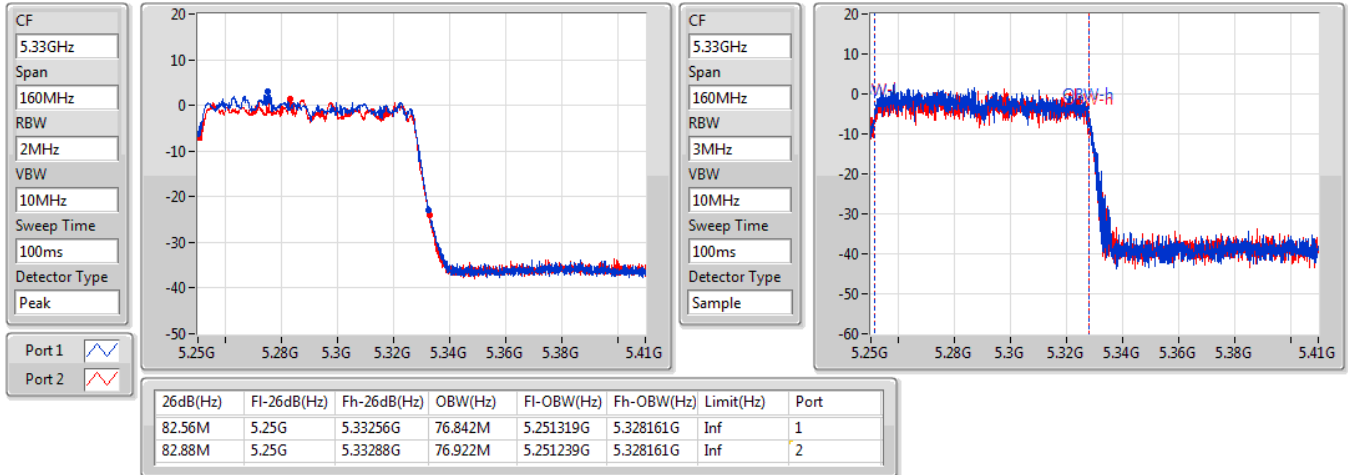

802.11ac VHT160_Nss2,(MCS0)_2TX
EBW
5250MHz Straddle 5.15-5.25GHz

07/04/2021

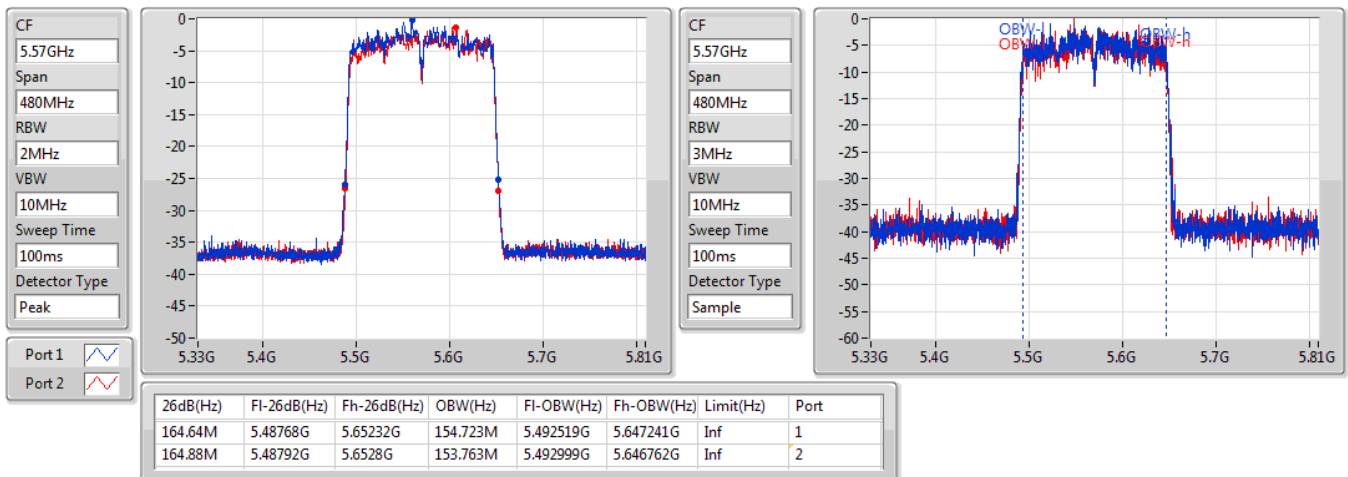


802.11ac VHT160_Nss2,(MCS0)_2TX
EBW
5250MHz Straddle 5.25-5.35GHz

07/04/2021

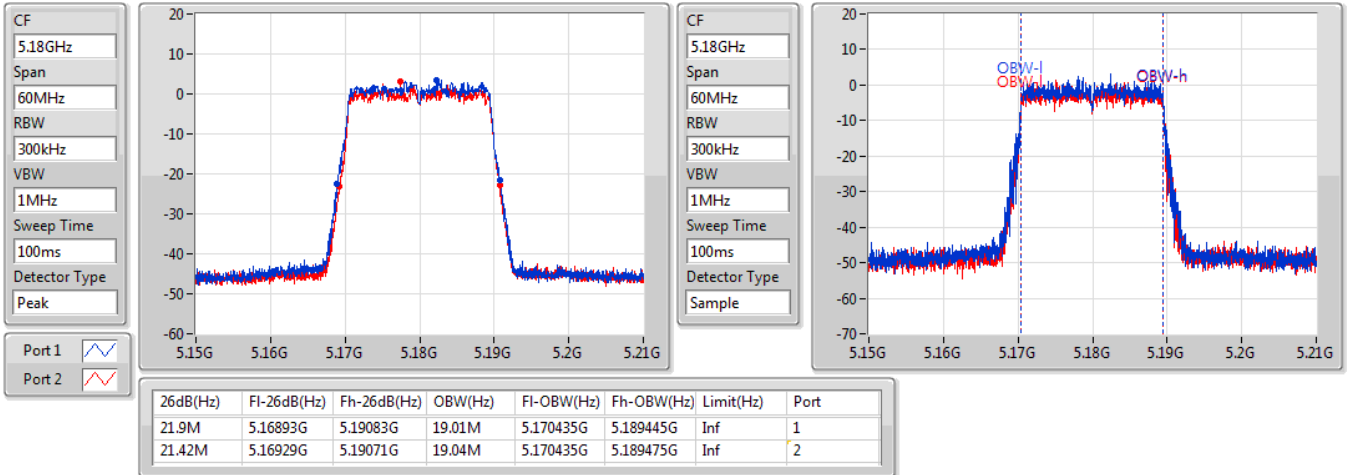

802.11ac VHT160_Nss2,(MCS0)_2TX
EBW
5570MHz

07/04/2021

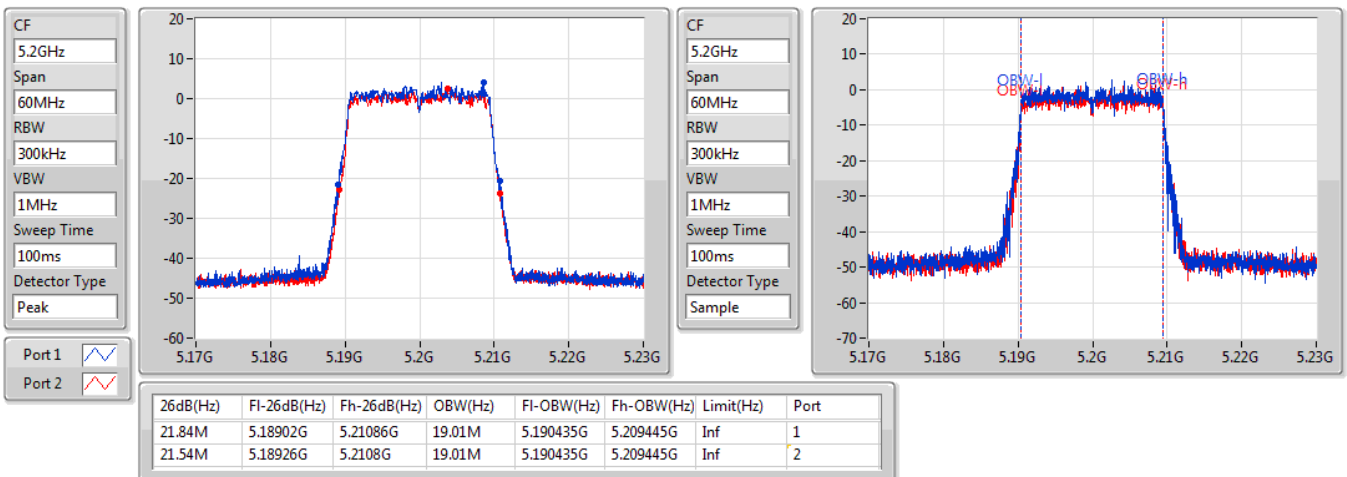


802.11ax HEW20_Nss2,(MCS0)_2TX
EBW
5180MHz

06/04/2021

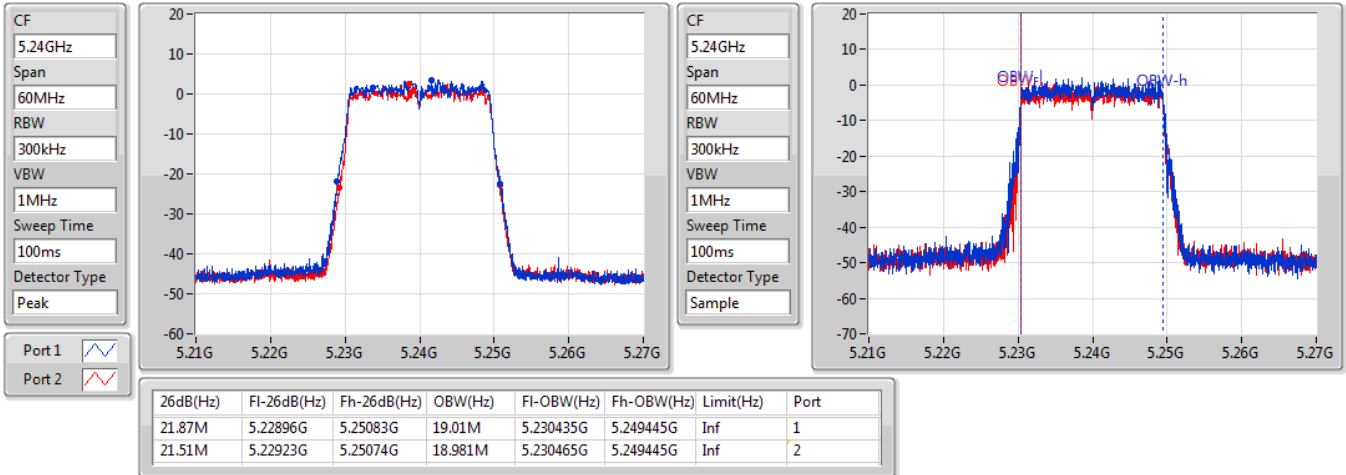

802.11ax HEW20_Nss2,(MCS0)_2TX
EBW
5200MHz

06/04/2021

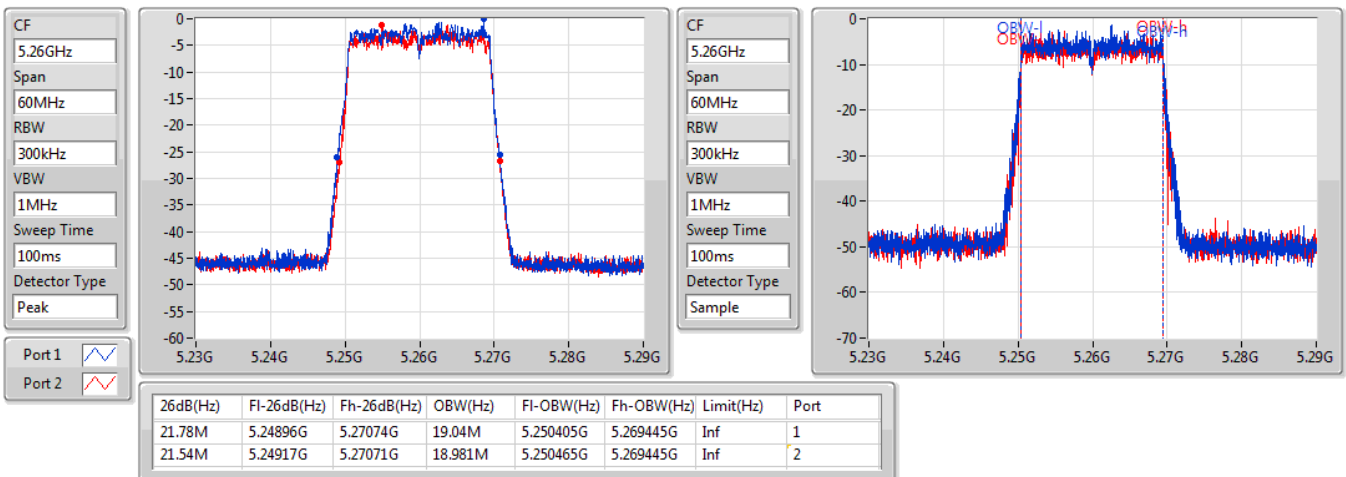


802.11ax HEW20_Nss2,(MCS0)_2TX
EBW
5240MHz

06/04/2021

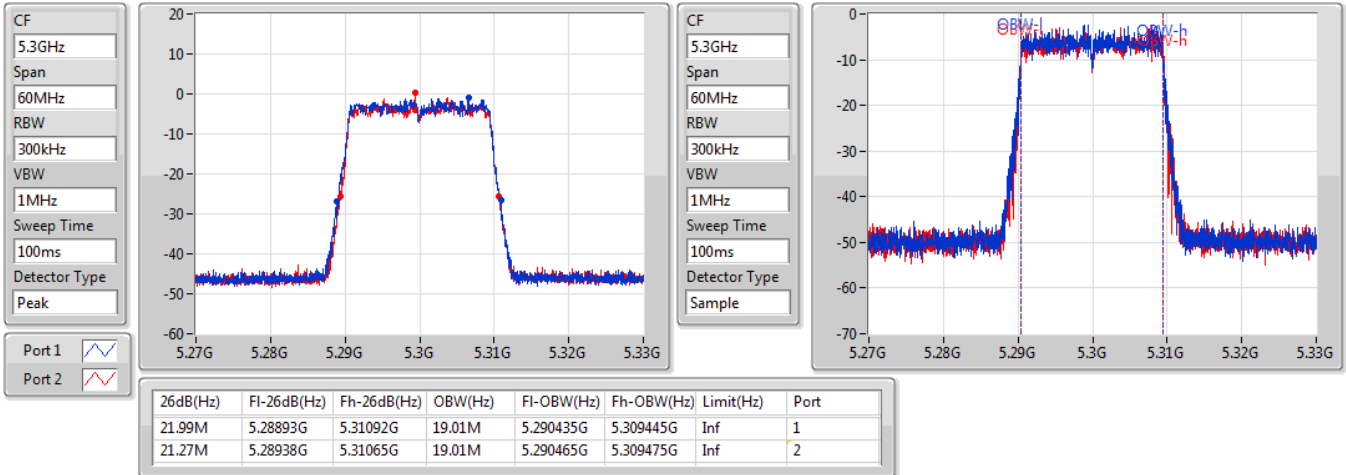

802.11ax HEW20_Nss2,(MCS0)_2TX
EBW
5260MHz

06/04/2021

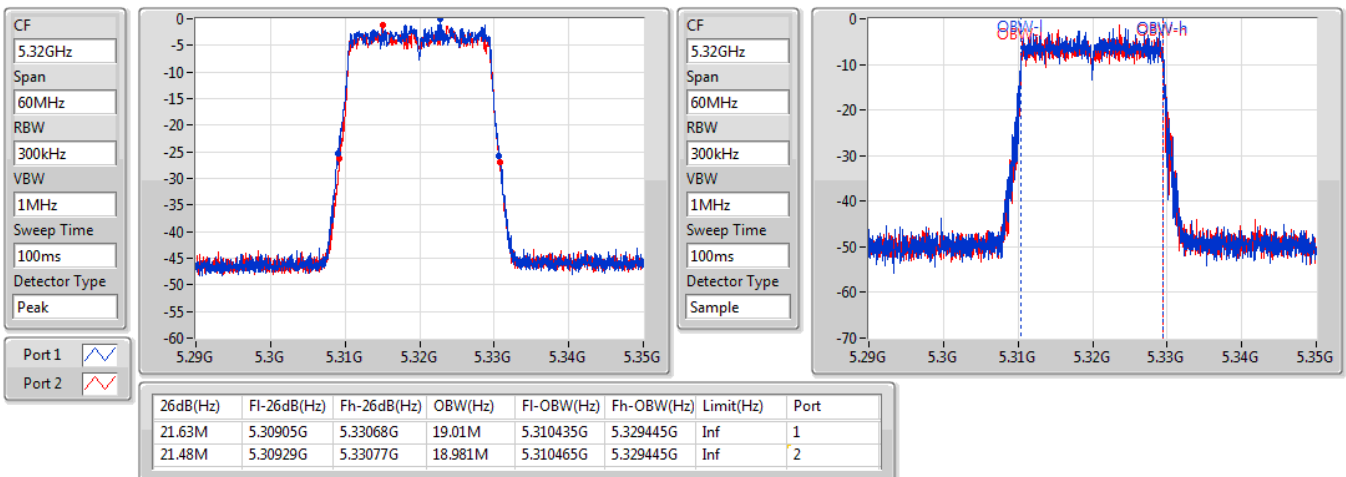


802.11ax HEW20_Nss2,(MCS0)_2TX
EBW
5300MHz

06/04/2021

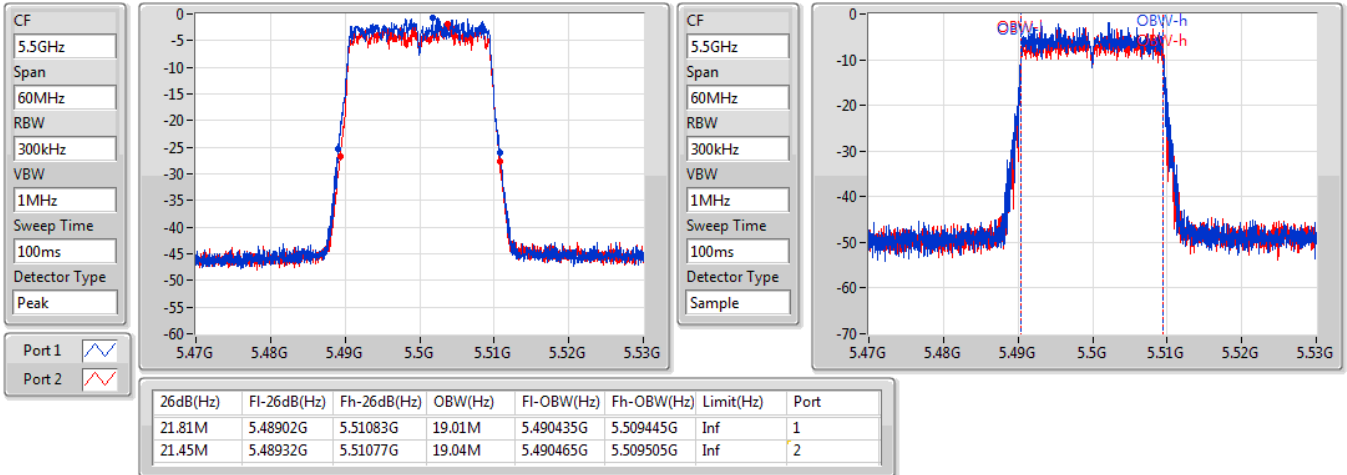

802.11ax HEW20_Nss2,(MCS0)_2TX
EBW
5320MHz

06/04/2021

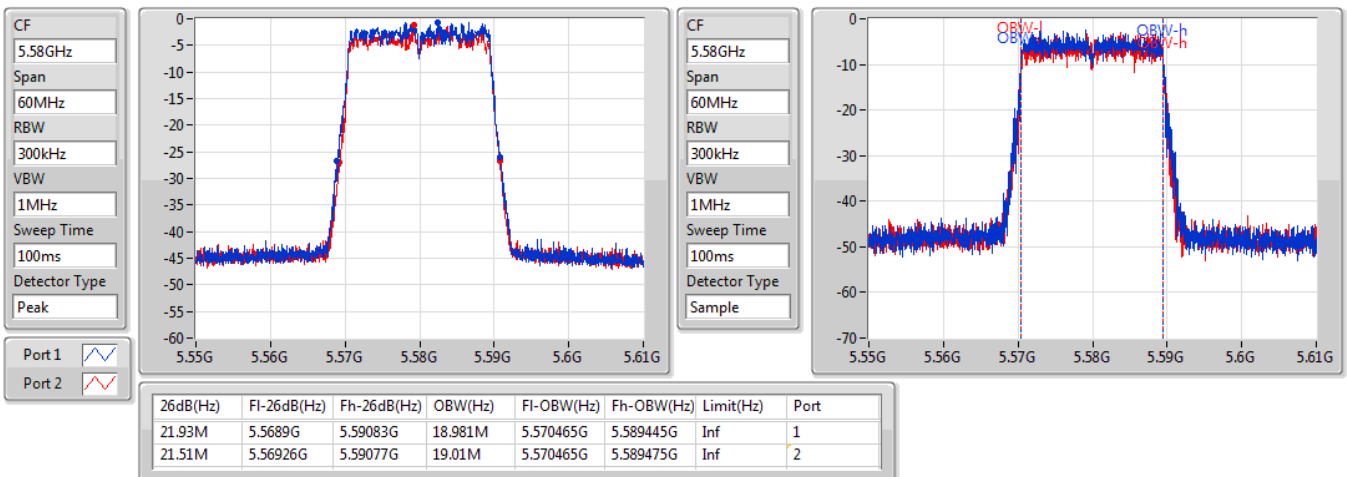


802.11ax HEW20_Nss2,(MCS0)_2TX
EBW
5500MHz

06/04/2021

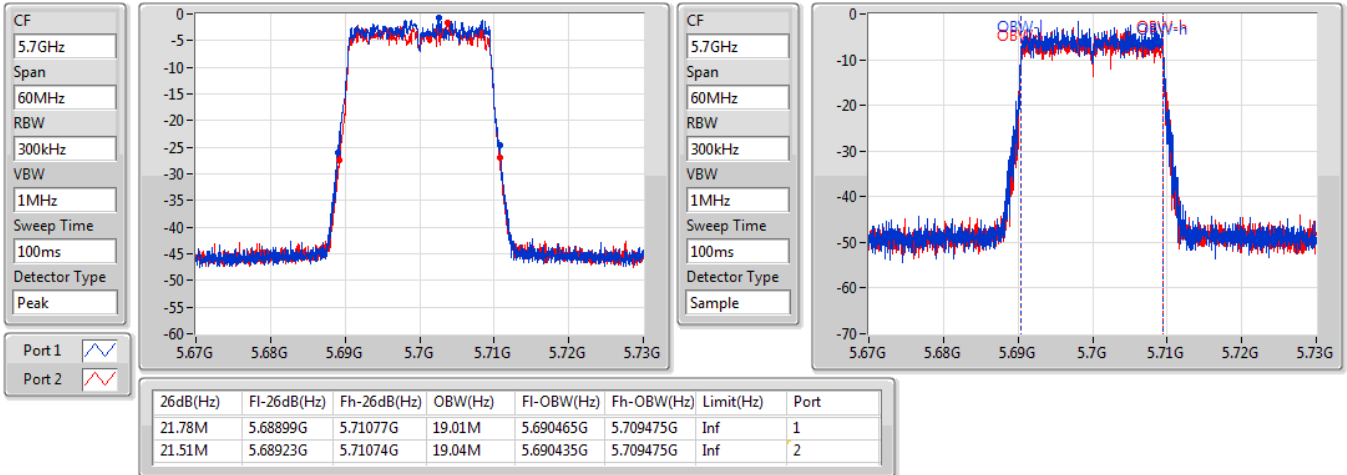

802.11ax HEW20_Nss2,(MCS0)_2TX
EBW
5580MHz

06/04/2021

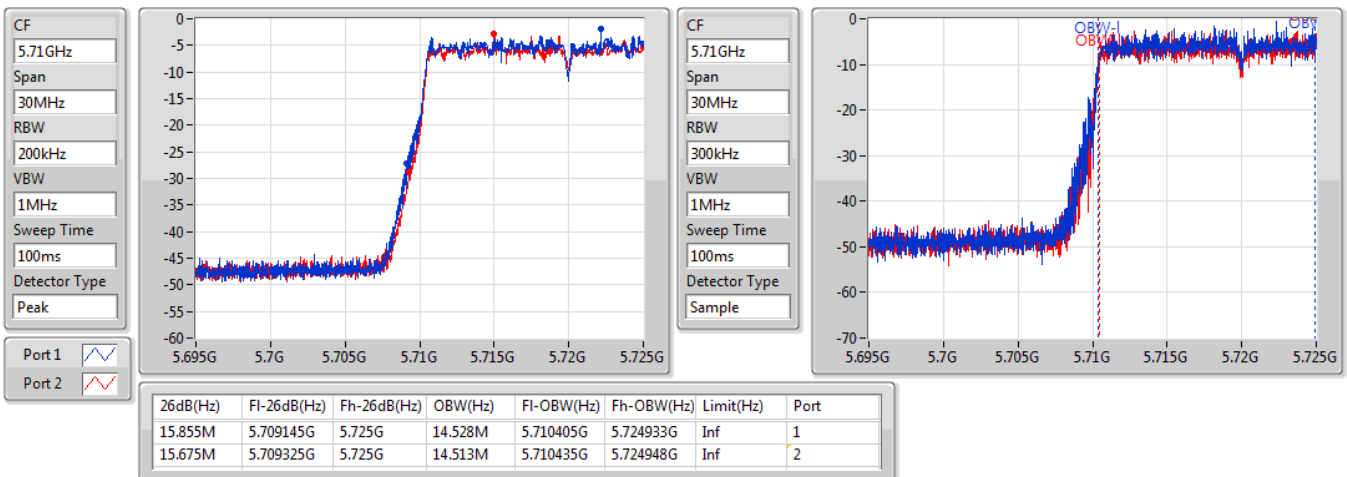


802.11ax HEW20_Nss2,(MCS0)_2TX
EBW
5700MHz

06/04/2021

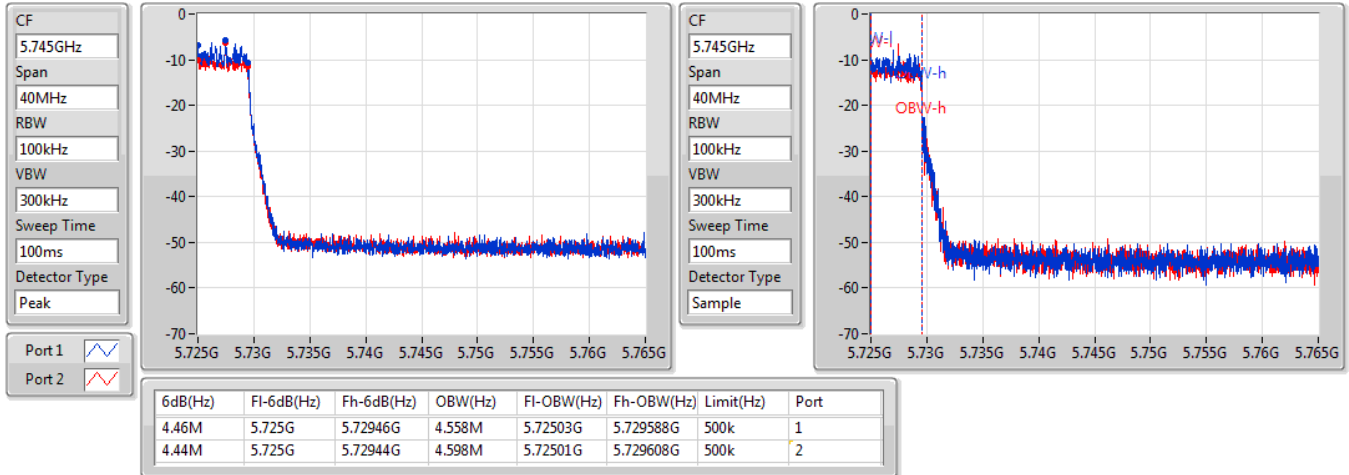

802.11ax HEW20_Nss2,(MCS0)_2TX
EBW
5720MHz Straddle 5.47-5.725GHz

06/04/2021

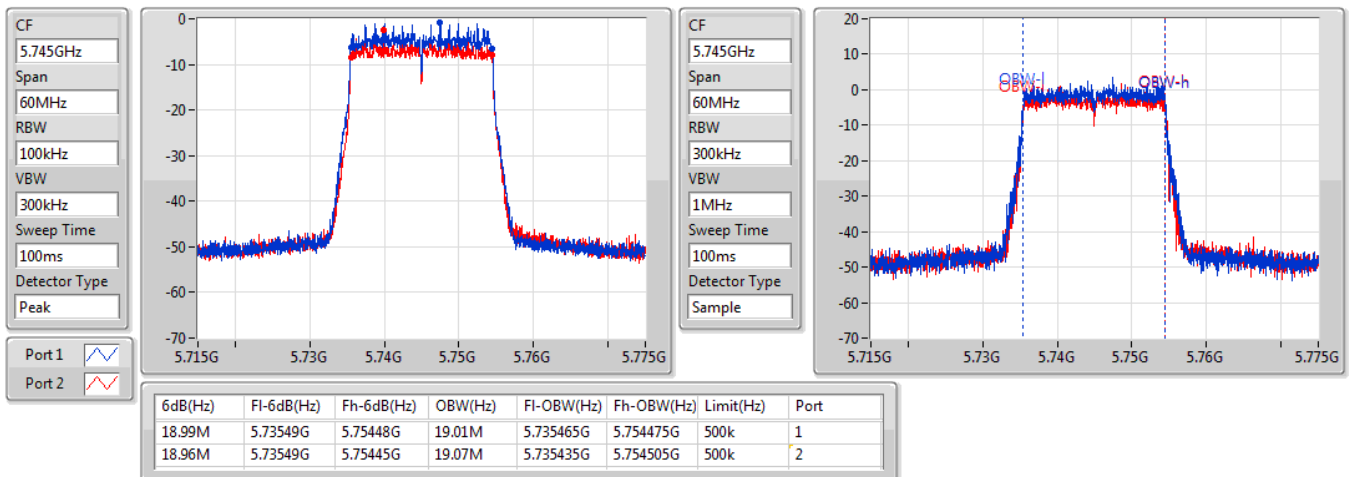


802.11ax HEW20_Nss2,(MCS0)_2TX
EBW
5720MHz Straddle 5.725-5.85GHz

06/04/2021

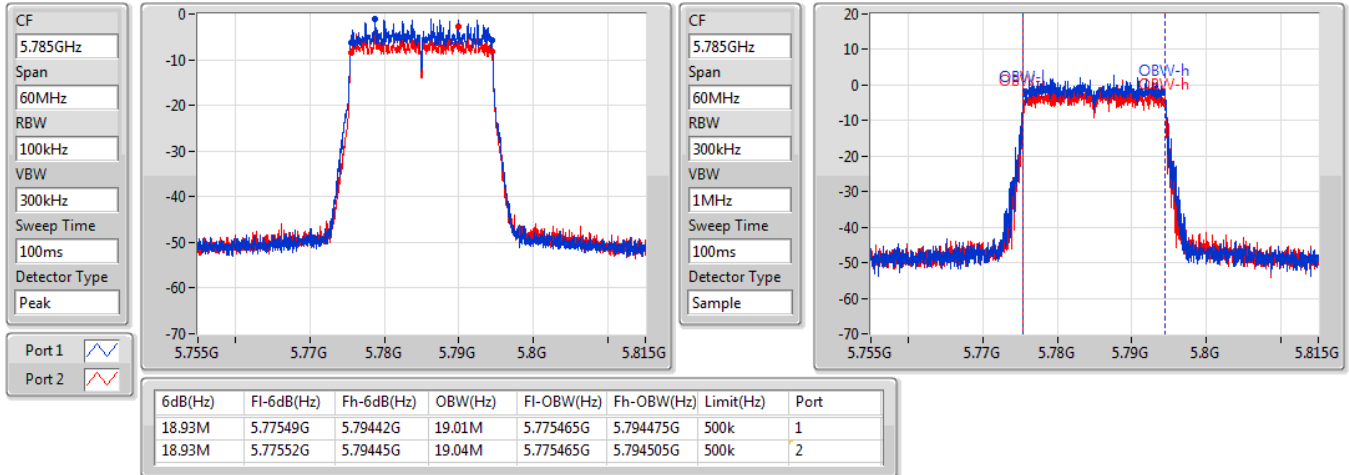

802.11ax HEW20_Nss2,(MCS0)_2TX
EBW
5745MHz

06/04/2021

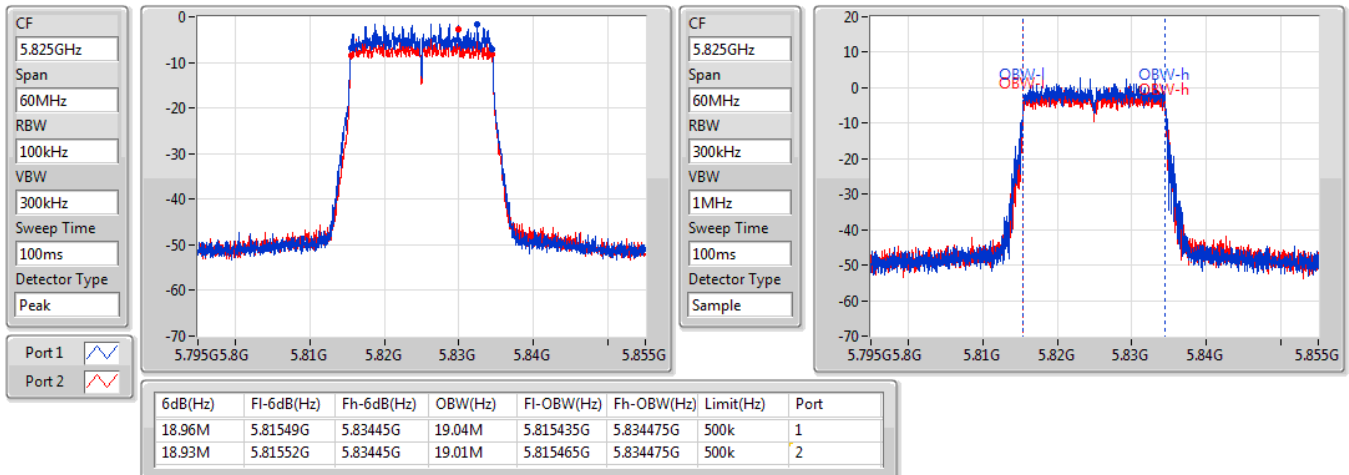


802.11ax HEW20_Nss2,(MCS0)_2TX
EBW
5785MHz

06/04/2021

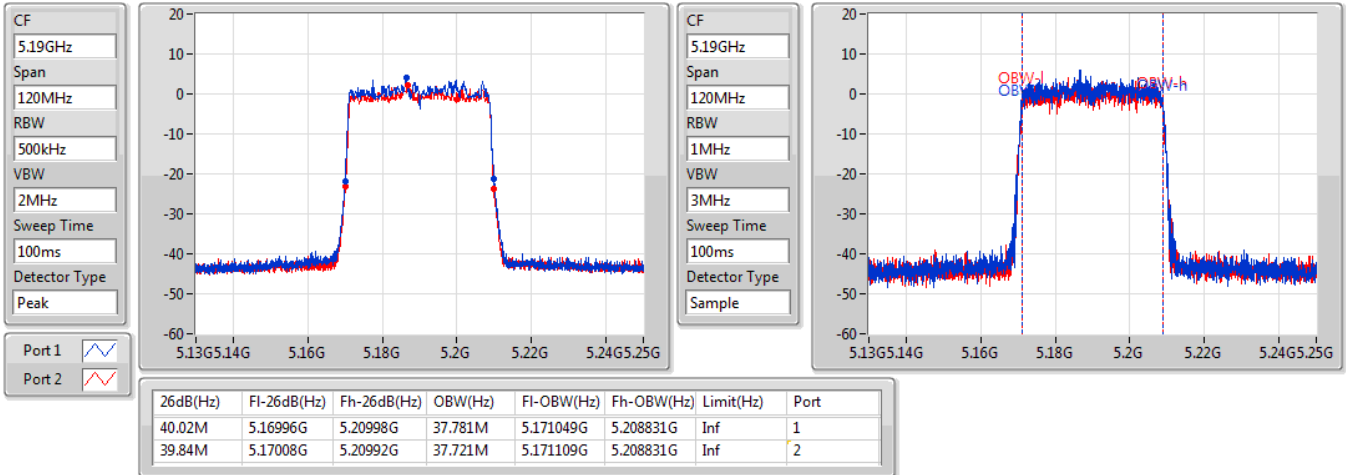

802.11ax HEW20_Nss2,(MCS0)_2TX
EBW
5825MHz

06/04/2021



802.11ax HEW40_Nss2,(MCS0)_2TX
EBW
5190MHz

06/04/2021


802.11ax HEW40_Nss2,(MCS0)_2TX
EBW
5230MHz

06/04/2021

