

FCC Radio Test Report

FCC ID : TVE-41417T07866

Equipment : Secured Wireless Access Point

Brand Name : FORTINET

Model Name : FortiAP 831Fxxxxxx, FAP-831Fxxxxxx,
FORTIAP-831Fxxxxxx
(where "x" can be "A-Z", or "0-9", or "-", or blank for
software purposes or marketing purposes only)

Applicant : Fortinet, Inc.
899 Kifer Road, Sunnyvale, CA 94086, USA

Manufacturer : Fortinet, Inc.
899 Kifer Road, Sunnyvale, CA 94086, USA

Standard : 47 CFR FCC Part 15.407

The product was received on Jan. 26, 2021, and testing was started from Feb. 05, 2021 and completed on Apr. 14, 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 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

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TEL : 886-3-3273456
FAX : 886-3-3270973
Report Template No.: HE1-D1 Ver4.0
FCC ID: TVE-41417T07866

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: Sam Tsai

Report Producer: Amber Chiu

1 General Description

1.1 Information

1.1.1 RF General Information

Radio 1

Frequency Range (MHz)	IEEE Std. 802.11	Ch. Frequency (MHz)	Channel Number
5150-5250	a, n (HT20), ac (VHT20) , ax(HEW20)	5180-5240	36-48 [4]
5725-5850		5745-5825	149-165 [5]
5150-5250	n (HT40), ac (VHT40) , ax(HEW40)	5190-5230	38-46 [2]
5725-5850		5755-5795	151-159 [2]
5150-5250	ac (VHT80) , ax(HEW80)	5210	42 [1]
5725-5850		5775	155 [1]

Radio 3

Frequency Range (MHz)	IEEE Std. 802.11	Ch. Frequency (MHz)	Channel Number
5150-5250	a, n (HT20), ac (VHT20)	5180-5240	36-48 [4]
5725-5850		5745-5825	149-165 [5]
5150-5250	n (HT40), ac (VHT40)	5190-5230	38-46 [2]
5725-5850		5755-5795	151-159 [2]
5150-5250	ac (VHT80)	5210	42 [1]
5725-5850		5775	155 [1]

Radio 1 4TX_Non-Beamforming

Band	Mode	BWch (MHz)	Nant
5.15-5.25GHz	802.11a	20	4TX
5.725-5.85GHz	802.11a	20	4TX
5.15-5.25GHz	802.11n HT20	20	4TX
5.725-5.85GHz	802.11n HT20	20	4TX
5.15-5.25GHz	802.11n HT40	40	4TX
5.725-5.85GHz	802.11n HT40	40	4TX
5.15-5.25GHz	802.11ac VHT20	20	4TX
5.725-5.85GHz	802.11ac VHT20	20	4TX
5.15-5.25GHz	802.11ac VHT40	40	4TX
5.725-5.85GHz	802.11ac VHT40	40	4TX
5.15-5.25GHz	802.11ac VHT80	80	4TX
5.725-5.85GHz	802.11ac VHT80	80	4TX



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

Radio 1 8TX_Non-Beamforming

Band	Mode	BWch (MHz)	Nant
5.15-5.25GHz	802.11a	20	8TX
5.725-5.85GHz	802.11a	20	8TX
5.15-5.25GHz	802.11n HT20	20	8TX
5.725-5.85GHz	802.11n HT20	20	8TX
5.15-5.25GHz	802.11n HT40	40	8TX
5.725-5.85GHz	802.11n HT40	40	8TX
5.15-5.25GHz	802.11ac VHT20	20	8TX
5.725-5.85GHz	802.11ac VHT20	20	8TX
5.15-5.25GHz	802.11ac VHT40	40	8TX
5.725-5.85GHz	802.11ac VHT40	40	8TX
5.15-5.25GHz	802.11ac VHT80	80	8TX
5.725-5.85GHz	802.11ac VHT80	80	8TX
5.15-5.25GHz	802.11ax HEW20	20	8TX
5.725-5.85GHz	802.11ax HEW20	20	8TX
5.15-5.25GHz	802.11ax HEW40	40	8TX
5.725-5.85GHz	802.11ax HEW40	40	8TX
5.15-5.25GHz	802.11ax HEW80	80	8TX
5.725-5.85GHz	802.11ax HEW80	80	8TX

Radio 3_Non-Beamforming

Band	Mode	BWch (MHz)	Nant
5.15-5.25GHz	802.11a	20	1TX
5.725-5.85GHz	802.11a	20	1TX
5.15-5.25GHz	802.11n HT20	20	1TX
5.725-5.85GHz	802.11n HT20	20	1TX
5.15-5.25GHz	802.11n HT40	40	1TX
5.725-5.85GHz	802.11n HT40	40	1TX



Band	Mode	BWch (MHz)	Nant
5.15-5.25GHz	802.11ac VHT20	20	1TX
5.725-5.85GHz	802.11ac VHT20	20	1TX
5.15-5.25GHz	802.11ac VHT40	40	1TX
5.725-5.85GHz	802.11ac VHT40	40	1TX
5.15-5.25GHz	802.11ac VHT80	80	1TX
5.725-5.85GHz	802.11ac VHT80	80	1TX

Radio 1 4TX_Beamforming

Band	Mode	BWch (MHz)	Nant
5.15-5.25GHz	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
5.725-5.85GHz	802.11ax HEW40-BF	40	4TX
5.15-5.25GHz	802.11ax HEW80-BF	80	4TX
5.725-5.85GHz	802.11ax HEW80-BF	80	4TX

Radio 1 8TX_Beamforming

Band	Mode	BWch (MHz)	Nant
5.15-5.25GHz	802.11ax HEW20-BF	20	8TX
5.725-5.85GHz	802.11ax HEW20-BF	20	8TX
5.15-5.25GHz	802.11ax HEW40-BF	40	8TX
5.725-5.85GHz	802.11ax HEW40-BF	40	8TX
5.15-5.25GHz	802.11ax HEW80-BF	80	8TX
5.725-5.85GHz	802.11ax HEW80-BF	80	8TX

Note:

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

1.1.2 Antenna Information

Ant.	Brand	Model Name	Antenna Type	Connector
1	Senao	5718A0607300	PIFA	I-Pex
2	Senao	5718A0608300	PIFA	I-Pex
3	Senao	5718A0609300	PIFA	I-Pex
4	Senao	5718A0610300	PIFA	I-Pex
5	Senao	5718A0611300	PIFA	I-Pex
6	Senao	5718A0612300	PIFA	I-Pex
7	Senao	5718A0613300	PIFA	I-Pex
8	Senao	5718A0614300	PIFA	I-Pex
9	Senao	5718A0611300	PIFA	I-Pex
10	Senao	5718A0612300	PIFA	I-Pex
11	Senao	5718A0613300	PIFA	I-Pex
12	Senao	5718A0614300	PIFA	I-Pex
13	Senao	5718A0615300	PIFA	I-Pex
14	Senao	5718A0616300	Dipole	I-Pex

Ant.	2.4GHz		5GHz			BT LE	Remark			
	Max Peak Gain(dBi)	Correlated Gain(dBi)	Max Peak Gain(dBi)	Correlated Gain(dBi)		Antenna Gain(dBi)				
1	4.44	6.7	-	-		-	Radio 2, 4*4			
2	4.49	6.7					Radio 2, 4*4			
3	4.32	6.7					Radio 2, 4*4			
4	4.14	6.7					Radio 2, 4*4			
5	-	-	6.10	Band1:9.52 Band2:9.01 Band3:7.95 Band4:7.84	Band1:7.23 Band2:7.18	-	Radio 1 8*8 mode	Radio 1 4*4 mode Low Band mode		
6			6.21							Radio 1 4*4 mode Hi Band mode
7			6.11							
8			6.12							
9			6.24							
10			6.20		Band3:6.09 Band4:7.44					
11			6.27							
12			6.13							
13	4.69	-	4.60	-		-	Radio 3			
14	-	-	-			5.20		BT		

**For 2.4 GHz function:**

Radio 2

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

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

Radio 3(Scan radio)

For IEEE 802.11b/g/n mode (1TX/1RX)

Only Ant.13 can be used as transmitting/receiving.

For 5 GHz function:

Radio 1

For IEEE 802.11a/n/ac/ax mode (8TX/8RX)

Ant.5, Ant.6, Ant.7, Ant.8, Ant.9, Ant.10, Ant.11 and Ant.12 could transmit/receive simultaneously.

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

Ant.5, Ant.6, Ant.7, and Ant.8 could transmit/receive simultaneously.

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

Ant.9, Ant.10, Ant.11 and Ant.12 could transmit/receive simultaneously.

Radio 3(Scan radio)

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

Only Ant.13 can be used as transmitting/receiving.

For Bluetooth function:

For Bluetooth mode (1TX/1RX)

Only Ant.14 can be used as transmitting/receiving.

1.1.3 EUT Information

Operational Condition				
EUT Power Type	From AC Adapter / PoE			
EUT Function	☐	Outdoor AP	☒	Indoor AP
	☐	Fixed P2P AP	☐	Outdoor/Indoor Client
Beamforming Function	☒	With beamforming	☐	Without beamforming
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 Mode Test Duty Cycle

Radio 1 4TX_Non-Beamforming

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq$ 1/T
802.11a_Nss1,(6Mbps)_4TX	0.59	2.29	268.438u	10k
802.11n HT20_Nss1,(MCS0)_4TX	0.601	2.21	269.063u	10k
802.11n HT40_Nss1,(MCS0)_4TX	0.943	0.25	5.428m	300
802.11ac VHT20_Nss1,(MCS0)_4TX	0.945	0.25	5.428m	300
802.11ac VHT40_Nss1,(MCS0)_4TX	0.935	0.29	5.428m	300
802.11ac VHT80_Nss1,(MCS0)_4TX	0.957	0.19	5.428m	300
802.11ax HEW20_Nss1,(MCS0)_4TX	0.948	0.23	5.452m	300
802.11ax HEW40_Nss1,(MCS0)_4TX	0.958	0.19	5.451m	300
802.11ax HEW80_Nss1,(MCS0)_4TX	0.94	0.27	5.451m	300

Note. If DC < 0.98, the DCF was added while measuring Output power and PSD.

Radio 1 8TX_Non-Beamforming

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq$ 1/T
802.11a_Nss1,(6Mbps)_8TX	0.95	0.22	1.977m	1k
802.11n HT20_Nss1,(MCS0)_8TX	0.95	0.22	5.428m	300
802.11n HT40_Nss1,(MCS0)_8TX	0.943	0.25	5.428m	300
802.11ac VHT20_Nss1,(MCS0)_8TX	0.949	0.23	5.428m	300
802.11ac VHT40_Nss1,(MCS0)_8TX	0.973	0.12	5.052m	300
802.11ac VHT80_Nss1,(MCS0)_8TX	0.844	0.74	5.428m	300
802.11ax HEW20_Nss1,(MCS0)_8TX	0.943	0.25	5.451m	300
802.11ax HEW40_Nss1,(MCS0)_8TX	0.939	0.27	5.452m	300
802.11ax HEW80_Nss1,(MCS0)_8TX	0.96	0.18	4.815m	300

Note. If DC < 0.98, the DCF was added while measuring Output power and PSD.

Radio 3_Non-Beamforming

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq$ 1/T
802.11a_Nss1,(6Mbps)_1TX	0.961	0.17	1.888m	1k
802.11n HT20_Nss1,(MCS0)_1TX	0.968	0.14	1.888m	1k
802.11n HT40_Nss1,(MCS0)_1TX	0.924	0.34	928.438u	3k
802.11ac VHT20_Nss1,(MCS0)_1TX	0.961	0.17	1.897m	1k
802.11ac VHT40_Nss1,(MCS0)_1TX	0.927	0.33	936.563u	3k
802.11ac VHT80_Nss1,(MCS0)_1TX	0.861	0.65	456.563u	3k

Note. If DC < 0.98, the DCF was added while measuring Output power and PSD.

Radio 1 4TX_Beamforming

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq$ 1/T
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	0.948	0.23	5.452m	300
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	0.958	0.19	5.451m	300
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	0.94	0.27	5.451m	300

Note. If DC < 0.98, the DCF was added while measuring Output power and PSD.

Radio 1 8TX_Beamforming

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq$ 1/T
802.11ax HEW20-BF_Nss1,(MCS0)_8TX	0.943	0.25	5.451m	300
802.11ax HEW40-BF_Nss1,(MCS0)_8TX	0.939	0.27	5.452m	300
802.11ax HEW80-BF_Nss1,(MCS0)_8TX	0.96	0.18	4.815m	300

Note. If DC < 0.98, the DCF was added while measuring Output power and PSD.

1.1.5 Table for Multiple Listing

The brand/model names in the following table are all refer to the identical product.

Brand Name	Model Name	Description
FORTINET	FortiAP 831Fxxxxxx, FAP-831Fxxxxxx, FORTIAP-831Fxxxxxx (where "x" can be "A-Z", or "0-9", or "-", or blank for software purposes or marketing purposes only)	All the models are identical, the difference model for difference brand served as marketing strategy.

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 662911 D03 v01
- ♦ 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 / 54~68%	06/Mar/2021
RF Conduction	TH06-HY	Vivi Jiang	20.1~26.9°C / 50~65%	05/Feb/2021~14/Apr/2021
Radiated	03CH02-HY	Frank Hsieh	20.5~25.9°C / 52~60%	05/Feb/2021~12/Mar/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 Condition

Condition Item	Abbreviation/Remark	Remark
TnomVnom	Tnom	20°C
-	Vnom	120V

2.2 Test Channel Mode

Test Software Version	qdart_conn.win.1.0_installer_00076.1
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Radio 1 4TX_Non-Beamforming

Mode	Power Setting
802.11a_Nss1,(6Mbps)_4TX	-
5180MHz	15.5
5200MHz	17.5
5240MHz	20.5
5745MHz	20
5785MHz	17
5825MHz	17.5
802.11n HT20_Nss1,(MCS0)_4TX	-
5180MHz	15
5200MHz	17.5
5240MHz	20
5745MHz	17.5
5785MHz	21
5825MHz	20
802.11n HT40_Nss1,(MCS0)_4TX	-
5190MHz	14
5230MHz	16.5
5755MHz	17.5
5795MHz	18.5
802.11ac VHT20_Nss1,(MCS0)_4TX	-
5180MHz	15
5200MHz	17.5
5240MHz	20
5745MHz	17.5



Mode	Power Setting
5785MHz	21
5825MHz	20
802.11ac VHT40_Nss1,(MCS0)_4TX	-
5190MHz	14
5230MHz	16.5
5755MHz	17.5
5795MHz	18.5
802.11ac VHT80_Nss1,(MCS0)_4TX	-
5210MHz	12.5
5775MHz	14.5
802.11ax HEW20_Nss1,(MCS0)_4TX	-
5180MHz	15
5200MHz	17.5
5240MHz	20
5745MHz	17.5
5785MHz	21
5825MHz	20
802.11ax HEW40_Nss1,(MCS0)_4TX	-
5190MHz	14
5230MHz	16.5
5755MHz	17.5
5795MHz	18.5
802.11ax HEW80_Nss1,(MCS0)_4TX	-
5210MHz	12.5
5775MHz	14.5

Radio 1 8TX_Non-Beamforming

Mode	Power Setting
802.11a_Nss1,(6Mbps)_8TX	-
5180MHz	16.5
5200MHz	17
5240MHz	17
5745MHz	17
5785MHz	17.5
5825MHz	16.5



Mode	Power Setting
802.11n HT20_Nss1,(MCS0)_8TX	-
5180MHz	15
5200MHz	16.5
5240MHz	16.5
5745MHz	16.5
5785MHz	15
5825MHz	17
802.11n HT40_Nss1,(MCS0)_8TX	-
5190MHz	14
5230MHz	16.5
5755MHz	16
5795MHz	17
802.11ac VHT20_Nss1,(MCS0)_8TX	-
5180MHz	15
5200MHz	16.5
5240MHz	16.5
5745MHz	16.5
5785MHz	15
5825MHz	17
802.11ac VHT40_Nss1,(MCS0)_8TX	-
5190MHz	14
5230MHz	16.5
5755MHz	16
5795MHz	17
802.11ac VHT80_Nss1,(MCS0)_8TX	-
5210MHz	12
5775MHz	15
802.11ax HEW20_Nss1,(MCS0)_8TX	-
5180MHz	15
5200MHz	16.5
5240MHz	16.5
5745MHz	16.5
5785MHz	15
5825MHz	17
802.11ax HEW40_Nss1,(MCS0)_8TX	-



Mode	Power Setting
5190MHz	14
5230MHz	16.5
5755MHz	16
5795MHz	17
802.11ax HEW80_Nss1,(MCS0)_8TX	-
5210MHz	12
5775MHz	15

Radio 3_Non-Beamforming

Mode	Power Setting
802.11a_Nss1,(6Mbps)_1TX	-
5180MHz	19
5200MHz	19.5
5240MHz	20.5
5745MHz	21
5785MHz	21
5825MHz	21
802.11n HT20_Nss1,(MCS0)_1TX	-
5180MHz	19
5200MHz	19.5
5240MHz	20.5
5745MHz	21
5785MHz	21
5825MHz	21
802.11n HT40_Nss1,(MCS0)_1TX	-
5190MHz	16
5230MHz	17
5755MHz	21
5795MHz	21
802.11ac VHT20_Nss1,(MCS0)_1TX	-
5180MHz	19
5200MHz	19.5
5240MHz	20.5
5745MHz	21
5785MHz	21



Mode	Power Setting
5825MHz	21
802.11ac VHT40_Nss1,(MCS0)_1TX	-
5190MHz	16
5230MHz	17
5755MHz	21
5795MHz	21
802.11ac VHT80_Nss1,(MCS0)_1TX	-
5210MHz	12.5
5775MHz	17.5

Radio 1 4TX_Beamforming

Mode	Power Setting
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	-
5180MHz	9.5
5200MHz	12
5240MHz	12
5745MHz	11.5
5785MHz	15
5825MHz	14
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	-
5190MHz	8.5
5230MHz	11
5755MHz	11.5
5795MHz	12.5
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	-
5210MHz	7
5775MHz	8.5

Radio 1 8TX_Beamforming

Mode	Power Setting
802.11ax HEW20-BF_Nss1,(MCS0)_8TX	-
5180MHz	6.5
5200MHz	6.5
5240MHz	6.5
5745MHz	11
5785MHz	9.5



Mode	Power Setting
5825MHz	11.5
802.11ax HEW40-BF_Nss1,(MCS0)_8TX	-
5190MHz	5.5
5230MHz	6.5
5755MHz	7.5
5795MHz	8.5
802.11ax HEW80-BF_Nss1,(MCS0)_8TX	-
5210MHz	3.5
5775MHz	6.5

2.3 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
Operating Mode	CTX
1	Adapter mode ;WIFI 5G TX, Radio 1
2	PoE mode ;WIFI 5G TX, Radio 1
3	Adapter mode ;WIFI 5G TX, Radio 3
4	PoE mode ;WIFI 5G TX, Radio 3

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	Adapter mode; WIFI 5G TX, Radio 1 4TX		
2	PoE mode; WIFI 5G TX, Radio 1 4TX		
3	Adapter mode; WIFI 5G TX, Radio 1 8TX		
4	PoE mode; WIFI 5G TX, Radio 1 8TX		
5	Adapter mode;WIFI 5G TX, Radio 3		
6	PoE mode;WIFI 5G TX, Radio 3		
Operating Mode > 1GHz	CTX		
1	Adapter mode; WIFI 5G TX, Radio 1 4TX		
2	Adapter mode; WIFI 5G TX, Radio 1 8TX		
3	Adapter mode;WIFI 5G TX, Radio 3		
Orthogonal Planes of EUT	X Plane	Y Plane	Z Plane
			
Worst Planes of EUT	V(Radio 3)	V(Radio 1)	



The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis
Operating Mode	CTX
1	Radio1: WLAN 5G(8*8)+Radio2: WLAN 2.4G+Radio3: WLAN 2.4G+BT
2	Radio1: WLAN 5G(8*8)+Radio2: WLAN 2.4G+Radio3: WLAN 5G+BT
3	Radio1: WLAN 5G(4*4 Hi+4*4 Low)+Radio2: WLAN 2.4G+Radio3: WLAN 2.4G+BT
4	Radio1: WLAN 5G(4*4 Hi+4*4 Low)+Radio2: WLAN 2.4G+Radio3: WLAN 5G+BT
Refer to Sporton Test Report No.: FA111206 for Co-location RF Exposure Evaluation.	

2.4 Accessories

Accessories				
Bracket ceiling mount 1	Brand Name	Senao Networks, Inc.	Model Name	CLIP CEILING 9/16 LFP
Bracket ceiling mount 2	Brand Name	Senao Networks, Inc.	Model Name	CLIP CEILING 15/16 LFP

Reminder: Regarding to more detail and other information, please refer to user manual.

2.5 Support Equipment

Support Equipment – AC Conduction					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	PoE	SENAO	EPA5006GPR	-	Note 1
2	AC Power Cable	-	-	-	Note 1
3	Adapter	ASIAN POWER DEVICES INC.	WA-48A12R	-	-
4	RJ45 Cable	Power Sync	CAT-6E-10	-	-

Note 1: Provided by customer.

Support Equipment – Conducted					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	Notebook	DELL	E5410	-	-
2	Adapter for NB	DELL	HA65NM130	-	-
3	Notebook	DELL	PP13S	-	-
4	Adapter for NB	DELL	AA90PM111	-	-
5	Fixture	-	-	-	Note 1

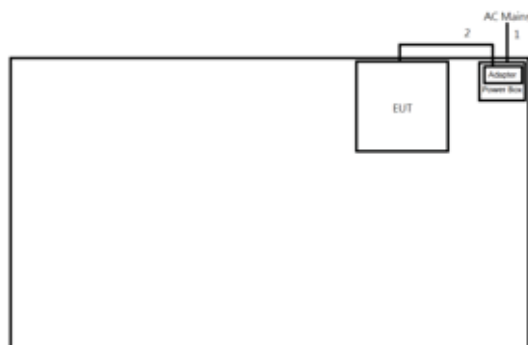
Note 1: Provided by customer.

Support Equipment – Radiated					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	Adapter	ASIAN POWER DEVICES INC.	WA-48A12R	-	Note 1
2	RJ45 Cable	Power Sync	CAT-6E-10	-	-
3	PoE (Remote)	SENAO	EPA5006GPR	-	Note 1
4	AC Power Cable (Remote)	-	-	-	Note 1

Note 1: Provided by customer.

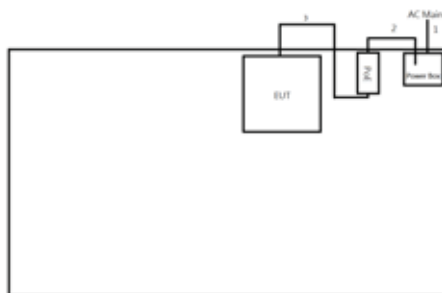
2.6 Test Setup Diagram

Test Setup Diagram – AC Line Conducted Emission Test - Adapter mode

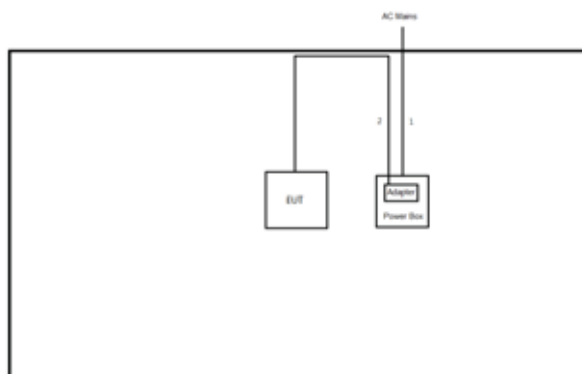


Item	Connection	Shielded	Length(m)	Remark
1	AC Power cable	No	1.8	-
2	DC Power cable	No	1.5	-

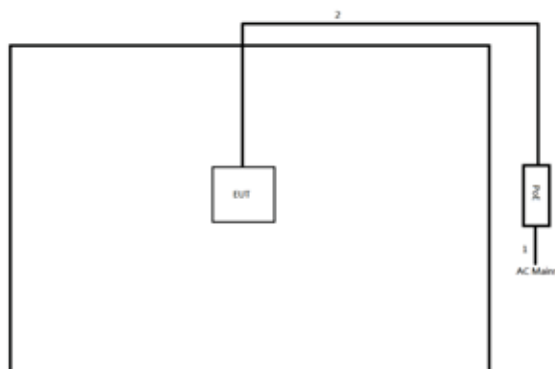
Test Setup Diagram – AC Line Conducted Emission Test - PoE mode



Item	Connection	Shielded	Length(m)	Remark
1	AC Power cable	No	1.8	-
2	AC Power cable	No	0.5	-
3	RJ45 cable	No	10.0	-

Test Setup Diagram - Radiated Test - Adapter mode


Item	Connection	Shielded	Length(m)	Remark
1	AC Power cable	No	1.8	-
2	DC Power cable	No	1.5	-

Test Setup Diagram - Radiated Test - PoE mode


Item	Connection	Shielded	Length(m)	Remark
1	AC Power cable	No	0.5	-
2	RJ45 cable	No	10.0	-

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

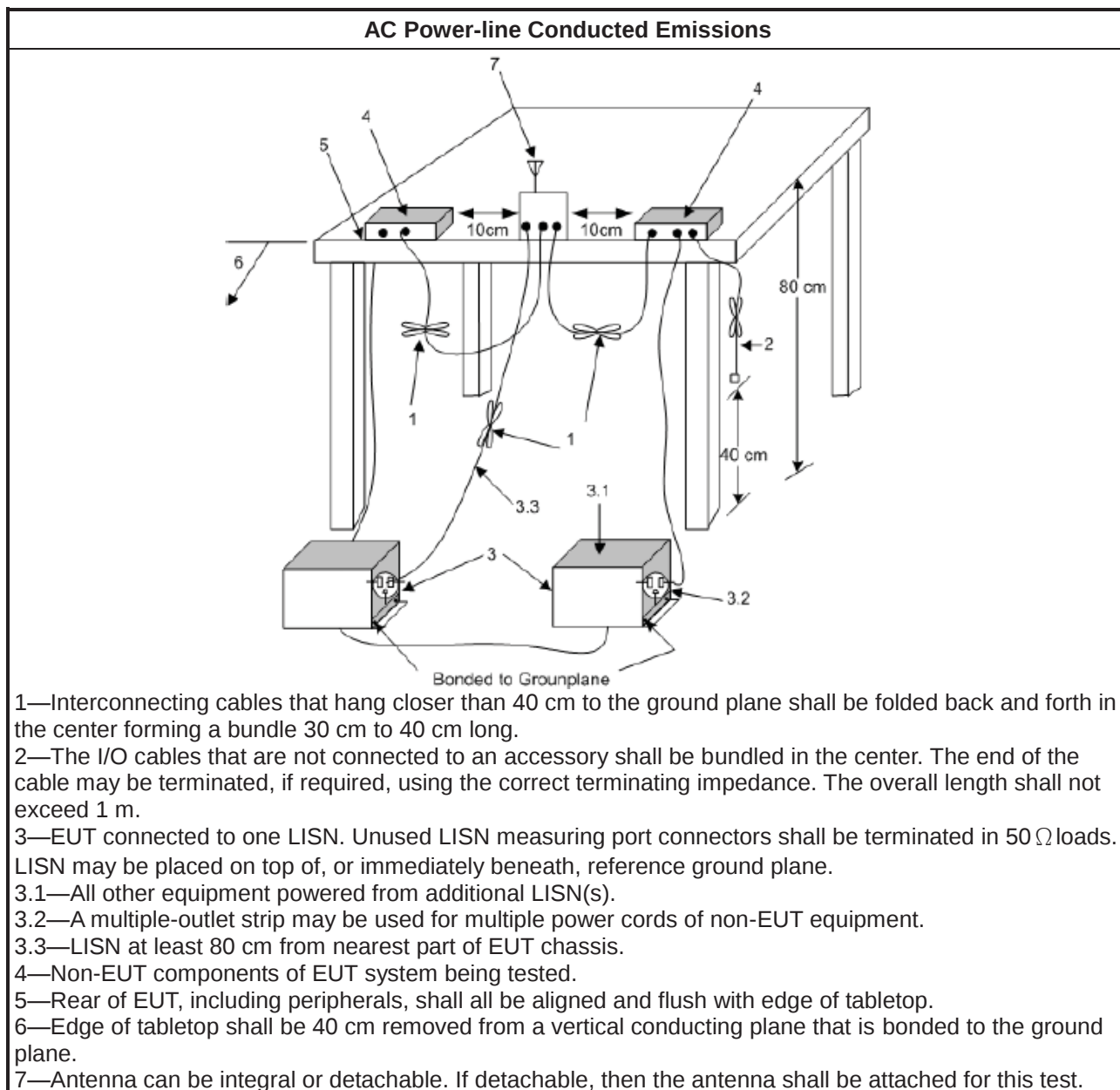
Test Method
☒ Refer as ANSI C63.10-2013, clause 6.2 for AC power-line conducted emissions.

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.

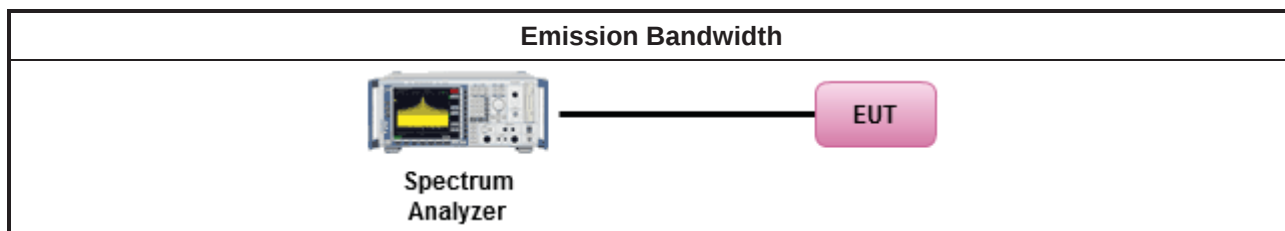
3.2.2 Measuring Instruments

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 ≤ 125 mW [21 dBm] - 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 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 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.	

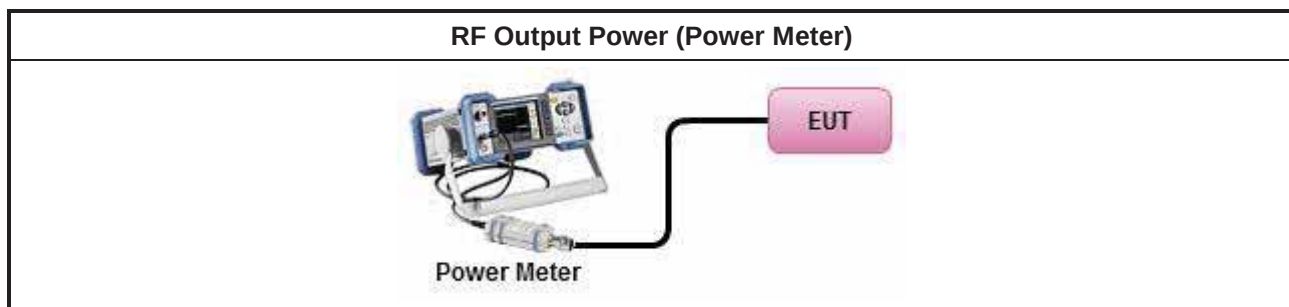
3.3.2 Measuring Instruments

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.	

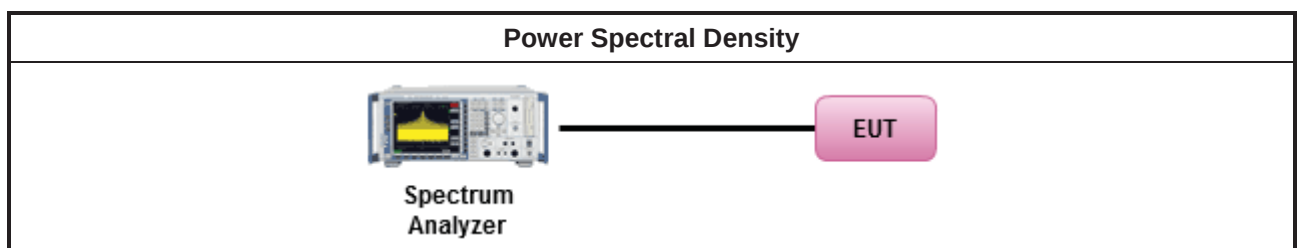
3.4.2 Measuring Instruments

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

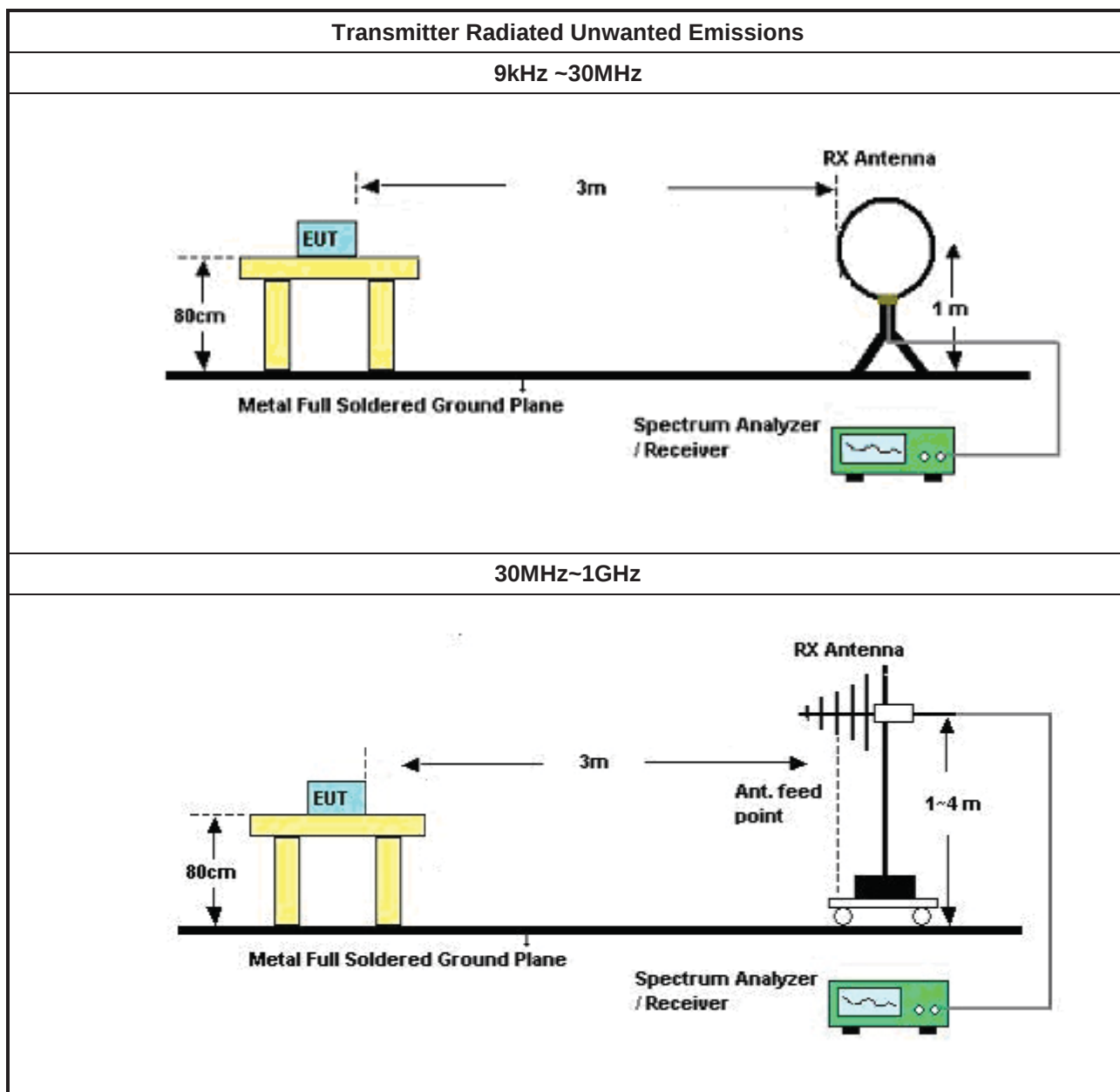
Test Method	
Measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. Measurements shall not be performed at a distance greater than 30 m for frequencies above 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.

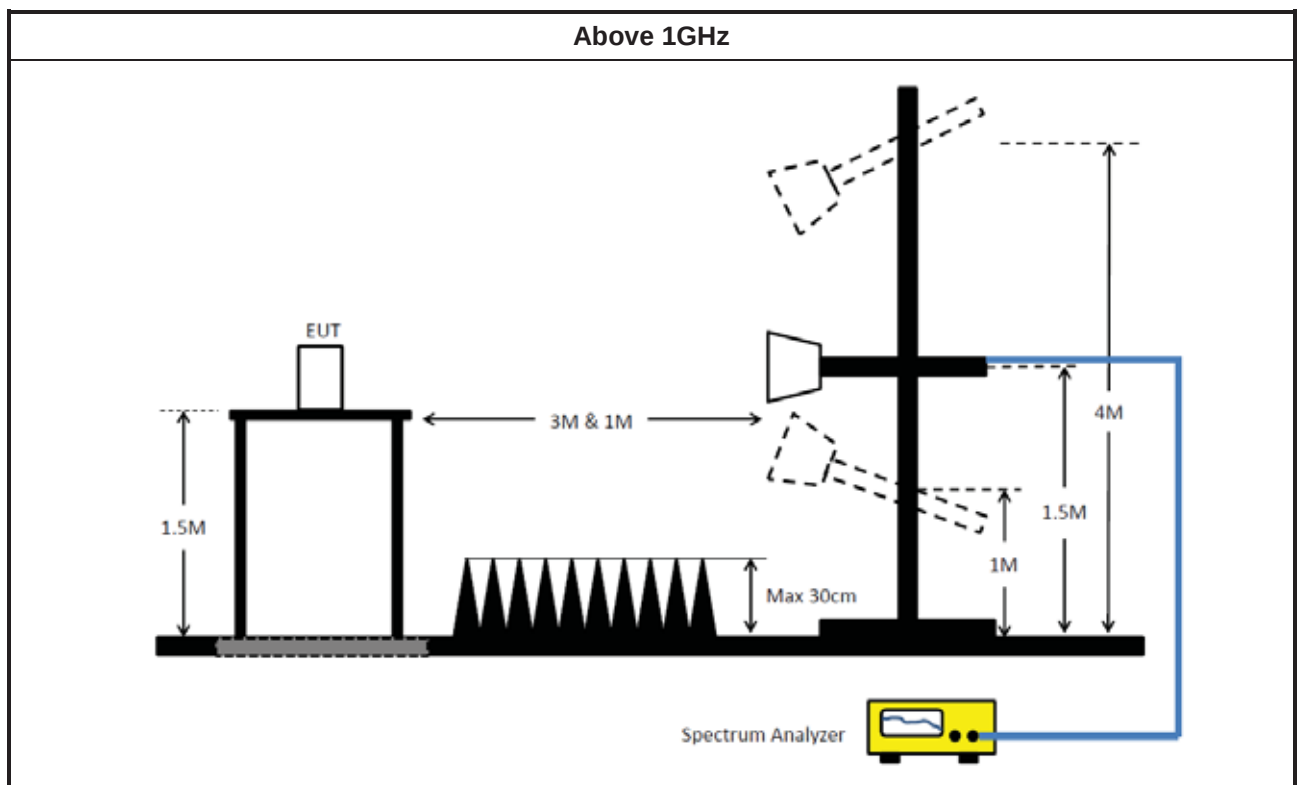
3.5.4 Measurement Results Calculation

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	18/Mar/2020	17/Mar/2021
Power Meter	Anritsu	ML2495A	1124009	300MHz~40GHz	18/Mar/2020	17/Mar/2021
Pulse Sensor	Anritsu	MA2411B	0917017	300MHz~40GHz	23/Feb/2021	22/Feb/2022
Power Meter	Anritsu	ML2495A	0949003	300MHz~40GHz	23/Feb/2021	22/Feb/2022

**Instrument for Radiated Test**

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH02-HY	30MHz~1GHz 3m	04/Aug/2020	03/Aug/2021
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	27/Feb/2020	26/Feb/2021
Signal Analyzer	R&S	FSV40	101500	10Hz~40GHz	19/Aug/2020	18/Aug/2021
Amplifier	Agilent	8447D	2944A11149	100kHz~1.3GHz	30/Jun/2020	29/Jun/2021
Microwave Preamplifier	Agilent	8449B	3008A02373	1GHz~18GHz	23/Oct/2020	22/Oct/2021
Bilog Antenna & 5dB Attenuator	SCHAFFNER / MTJ	CBL 6112B / MTJ6102-05	2723 / 2	30MHz~1GHz	06/Sep/2020	05/Sep/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	Jye Bao	RG142	CB017	9kHz~30MHz	20/Jun/2020	19/Jun/2021
RF Cable-R03m	Jye Bao	RG142	CB017	30MHz~1GHz	25/Mar/2020	24/Mar/2021
RF Cable-R03m	HUBER+SUHNER	SUCOFLEX104	805193/4+ 805192/4	1GHz~40GHz	08/Apr/2020	07/Apr/2021
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA 9170221	18GHz~40GHz	13/Mar/2020	12/Mar/2021
Microwave Premplifier	EMC INSTRUMENTS	EM18G40G	060604	18GHz ~ 40GHz	09/Mar/2021	08/Mar/2022
Preamplifier	MITEQ	TTA1840-35-HG	1864481	18GHz~40GHz	10/Mar/2020	09/Mar/2021
Loop Antenna	Teseq	HLA 6120	24155	9kHz~30MHz	13/Apr/2020	12/Apr/2021
EMI Test Receiver	R&S	ESR3	102051	9kHz~3.6GHz	29/May/2020	28/May/2021



Conducted Emissions at Powerline_Non-Beamforming_Radio1 Appendix A.1

Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	QP	152.414k	46.49	65.87	-19.38	Neutral
Mode 2	Pass	AV	469.822k	39.56	46.52	-6.96	Line

Mode Configure

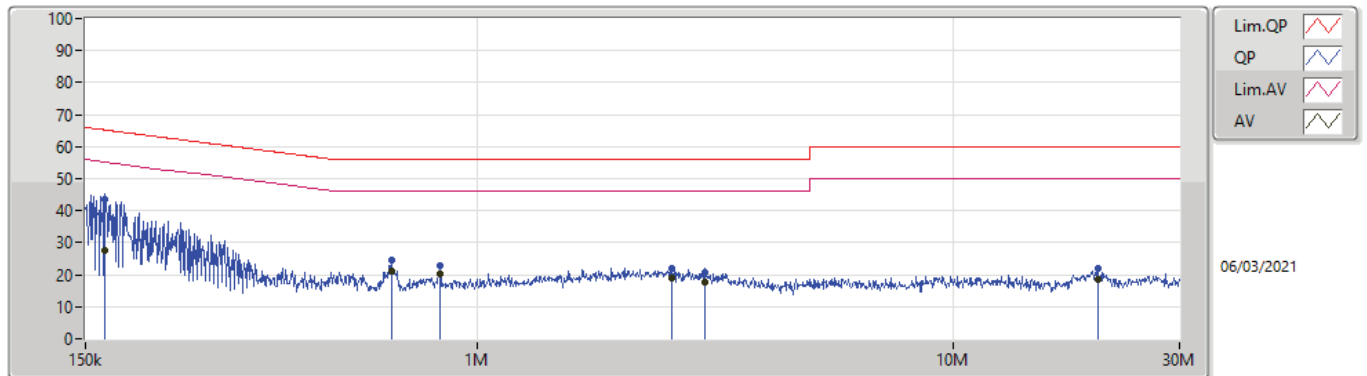
Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition	Comments
Mode 1	Pass	QP	165.082k	43.70	65.20	-21.50	Line	-
Mode 1	Pass	AV	165.082k	27.45	55.20	-27.75	Line	-
Mode 1	Pass	QP	659.627k	24.36	56.00	-31.64	Line	-
Mode 1	Pass	AV	659.627k	21.26	46.00	-24.74	Line	-
Mode 1	Pass	QP	834.81k	22.89	56.00	-33.11	Line	-
Mode 1	Pass	AV	834.81k	20.25	46.00	-25.75	Line	-
Mode 1	Pass	QP	2.563M	21.99	56.00	-34.01	Line	-
Mode 1	Pass	AV	2.563M	18.89	46.00	-27.11	Line	-
Mode 1	Pass	QP	3.007M	20.85	56.00	-35.15	Line	-
Mode 1	Pass	AV	3.007M	17.74	46.00	-28.26	Line	-
Mode 1	Pass	QP	20.269M	21.77	60.00	-38.23	Line	-
Mode 1	Pass	AV	20.269M	18.38	50.00	-31.62	Line	-
Mode 1	Pass	QP	152.414k	46.49	65.87	-19.38	Neutral	-
Mode 1	Pass	AV	152.414k	29.65	55.87	-26.22	Neutral	-
Mode 1	Pass	QP	654.382k	22.56	56.00	-33.44	Neutral	-
Mode 1	Pass	AV	654.382k	19.13	46.00	-26.87	Neutral	-
Mode 1	Pass	QP	831.484k	21.27	56.00	-34.73	Neutral	-
Mode 1	Pass	AV	831.484k	19.38	46.00	-26.62	Neutral	-
Mode 1	Pass	QP	1.665M	22.58	56.00	-33.42	Neutral	-
Mode 1	Pass	AV	1.665M	19.81	46.00	-26.19	Neutral	-
Mode 1	Pass	QP	3.154M	19.26	56.00	-36.74	Neutral	-
Mode 1	Pass	AV	3.154M	16.71	46.00	-29.29	Neutral	-
Mode 1	Pass	QP	18.939M	24.20	60.00	-35.80	Neutral	-
Mode 1	Pass	AV	18.939M	20.69	50.00	-29.31	Neutral	-
Mode 2	Pass	QP	151.807k	52.87	65.90	-13.03	Line	-
Mode 2	Pass	AV	151.807k	37.07	55.90	-18.83	Line	-
Mode 2	Pass	QP	469.822k	45.14	56.52	-11.38	Line	-
Mode 2	Pass	AV	469.822k	39.56	46.52	-6.96	Line	-
Mode 2	Pass	QP	599.363k	35.75	56.00	-20.25	Line	-
Mode 2	Pass	AV	599.363k	31.93	46.00	-14.07	Line	-
Mode 2	Pass	QP	1.938M	35.28	56.00	-20.72	Line	-
Mode 2	Pass	AV	1.938M	31.39	46.00	-14.61	Line	-
Mode 2	Pass	QP	4.411M	32.14	56.00	-23.86	Line	-
Mode 2	Pass	AV	4.411M	27.10	46.00	-18.90	Line	-
Mode 2	Pass	QP	12.063M	31.93	60.00	-28.07	Line	-
Mode 2	Pass	AV	12.063M	27.26	50.00	-22.74	Line	-
Mode 2	Pass	QP	165.743k	49.56	65.18	-15.62	Neutral	-
Mode 2	Pass	AV	165.743k	32.69	55.18	-22.49	Neutral	-
Mode 2	Pass	QP	469.822k	45.11	56.52	-11.41	Neutral	-
Mode 2	Pass	AV	469.822k	39.56	46.52	-6.96	Neutral	-
Mode 2	Pass	QP	580.524k	34.38	56.00	-21.62	Neutral	-
Mode 2	Pass	AV	580.524k	31.09	46.00	-14.91	Neutral	-
Mode 2	Pass	QP	1.556M	31.61	56.00	-24.39	Neutral	-



Conducted Emissions at Powerline_Non-Beamforming_Radio1 Appendix A.1

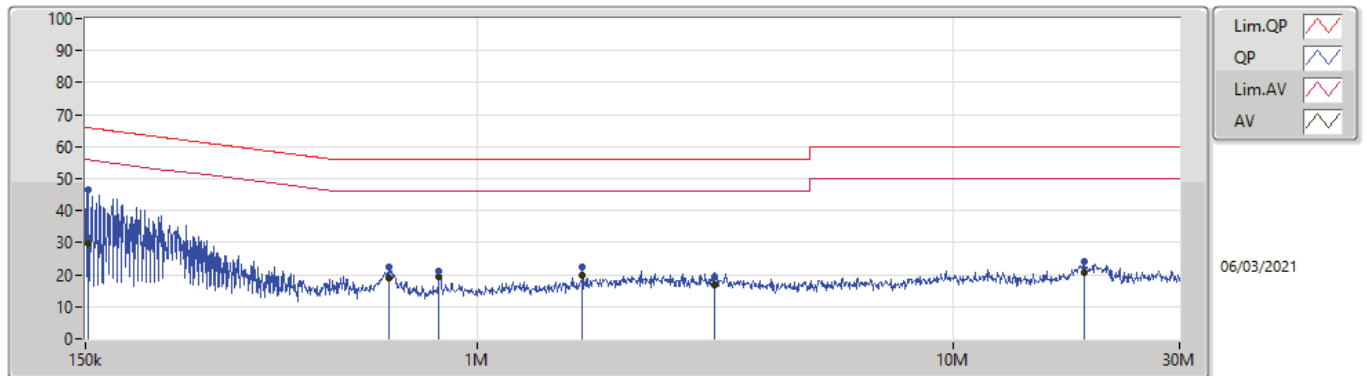
Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition	Comments
Mode 2	Pass	AV	1.556M	27.71	46.00	-18.29	Neutral	-
Mode 2	Pass	QP	4.933M	29.39	56.00	-26.61	Neutral	-
Mode 2	Pass	AV	4.933M	23.74	46.00	-22.26	Neutral	-
Mode 2	Pass	QP	12.807M	28.94	60.00	-31.06	Neutral	-
Mode 2	Pass	AV	12.807M	24.45	50.00	-25.55	Neutral	-

Conducted Emissions at Powerline_Mode 1



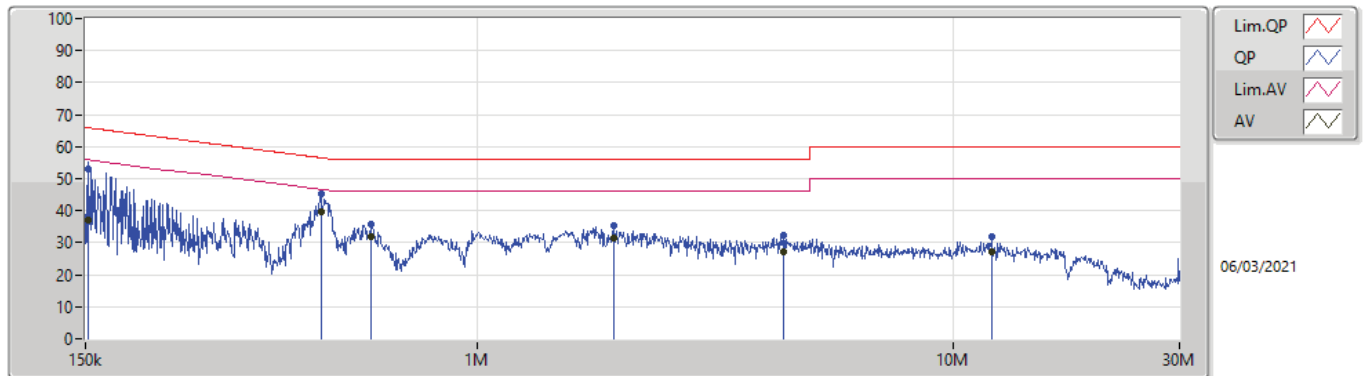
Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	165.082k	43.70	65.20	-21.50	19.63	Line	-	24.07	9.69	0.04	9.90			
AV	165.082k	27.45	55.20	-27.75	19.63	Line	-	7.82	9.69	0.04	9.90			
QP	659.627k	24.36	56.00	-31.64	19.59	Line	-	4.77	9.67	0.07	9.85			
AV	659.627k	21.26	46.00	-24.74	19.59	Line	-	1.67	9.67	0.07	9.85			
QP	834.81k	22.89	56.00	-33.11	19.57	Line	-	3.32	9.67	0.08	9.82			
AV	834.81k	20.25	46.00	-25.75	19.57	Line	-	0.68	9.67	0.08	9.82			
QP	2.563M	21.99	56.00	-34.01	19.63	Line	-	2.36	9.68	0.11	9.84			
AV	2.563M	18.89	46.00	-27.11	19.63	Line	-	-0.74	9.68	0.11	9.84			
QP	3.007M	20.85	56.00	-35.15	19.67	Line	-	1.18	9.69	0.12	9.86			
AV	3.007M	17.74	46.00	-28.26	19.67	Line	-	-1.93	9.69	0.12	9.86			
QP	20.269M	21.77	60.00	-38.23	19.87	Line	-	1.90	9.67	0.30	9.90			
AV	20.269M	18.38	50.00	-31.62	19.87	Line	-	-1.49	9.67	0.30	9.90			

Conducted Emissions at Powerline_Mode 1



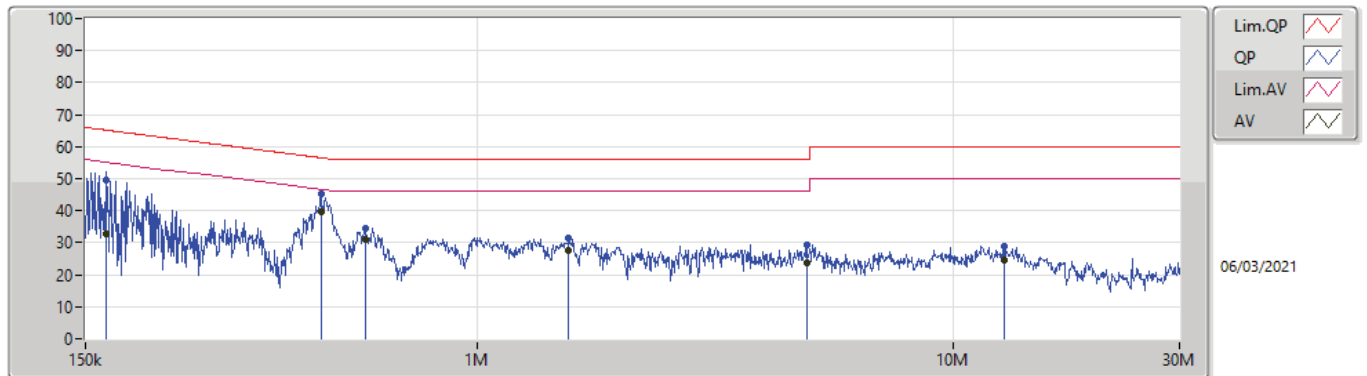
Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	152.414k	46.49	65.87	-19.38	19.63	Neutral	-	26.86	9.69	0.04	9.90			
AV	152.414k	29.65	55.87	-26.22	19.63	Neutral	-	10.02	9.69	0.04	9.90			
QP	654.382k	22.56	56.00	-33.44	19.59	Neutral	-	2.97	9.67	0.07	9.85			
AV	654.382k	19.13	46.00	-26.87	19.59	Neutral	-	-0.46	9.67	0.07	9.85			
QP	831.484k	21.27	56.00	-34.73	19.57	Neutral	-	1.70	9.67	0.08	9.82			
AV	831.484k	19.38	46.00	-26.62	19.57	Neutral	-	-0.19	9.67	0.08	9.82			
QP	1.665M	22.58	56.00	-33.42	19.57	Neutral	-	3.01	9.68	0.09	9.80			
AV	1.665M	19.81	46.00	-26.19	19.57	Neutral	-	0.24	9.68	0.09	9.80			
QP	3.154M	19.26	56.00	-36.74	19.69	Neutral	-	-0.43	9.69	0.13	9.87			
AV	3.154M	16.71	46.00	-29.29	19.69	Neutral	-	-2.98	9.69	0.13	9.87			
QP	18.939M	24.20	60.00	-35.80	19.94	Neutral	-	4.26	9.75	0.29	9.90			
AV	18.939M	20.69	50.00	-29.31	19.94	Neutral	-	0.75	9.75	0.29	9.90			

Conducted Emissions at Powerline_Mode 2



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	151.807k	52.87	65.90	-13.03	19.63	Line	-	33.24	9.69	0.04	9.90			
AV	151.807k	37.07	55.90	-18.83	19.63	Line	-	17.44	9.69	0.04	9.90			
QP	469.822k	45.14	56.52	-11.38	19.61	Line	-	25.53	9.67	0.06	9.88			
AV	469.822k	39.56	46.52	-6.96	19.61	Line	-	19.95	9.67	0.06	9.88			
QP	599.363k	35.75	56.00	-20.25	19.60	Line	-	16.15	9.67	0.07	9.86			
AV	599.363k	31.93	46.00	-14.07	19.60	Line	-	12.33	9.67	0.07	9.86			
QP	1.938M	35.28	56.00	-20.72	19.58	Line	-	15.70	9.68	0.10	9.80			
AV	1.938M	31.39	46.00	-14.61	19.58	Line	-	11.81	9.68	0.10	9.80			
QP	4.411M	32.14	56.00	-23.86	19.74	Line	-	12.40	9.69	0.15	9.90			
AV	4.411M	27.10	46.00	-18.90	19.74	Line	-	7.36	9.69	0.15	9.90			
QP	12.063M	31.93	60.00	-28.07	19.83	Line	-	12.10	9.71	0.22	9.90			
AV	12.063M	27.26	50.00	-22.74	19.83	Line	-	7.43	9.71	0.22	9.90			

Conducted Emissions at Powerline_Mode 2



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	165.743k	49.56	65.18	-15.62	19.63	Neutral	-	29.93	9.69	0.04	9.90			
AV	165.743k	32.69	55.18	-22.49	19.63	Neutral	-	13.06	9.69	0.04	9.90			
QP	469.822k	45.11	56.52	-11.41	19.61	Neutral	-	25.50	9.67	0.06	9.88			
AV	469.822k	39.56	46.52	-6.96	19.61	Neutral	-	19.95	9.67	0.06	9.88			
QP	580.524k	34.38	56.00	-21.62	19.60	Neutral	-	14.78	9.67	0.07	9.86			
AV	580.524k	31.09	46.00	-14.91	19.60	Neutral	-	11.49	9.67	0.07	9.86			
QP	1.556M	31.61	56.00	-24.39	19.57	Neutral	-	12.04	9.68	0.09	9.80			
AV	1.556M	27.71	46.00	-18.29	19.57	Neutral	-	8.14	9.68	0.09	9.80			
QP	4.933M	29.39	56.00	-26.61	19.75	Neutral	-	9.64	9.70	0.15	9.90			
AV	4.933M	23.74	46.00	-22.26	19.75	Neutral	-	3.99	9.70	0.15	9.90			
QP	12.807M	28.94	60.00	-31.06	19.87	Neutral	-	9.07	9.74	0.23	9.90			
AV	12.807M	24.45	50.00	-25.55	19.87	Neutral	-	4.58	9.74	0.23	9.90			



Conducted Emissions at Powerline_Non-Beamforming_Radio3 Appendix A.2

Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 3	Pass	QP	151.202k	46.48	65.92	-19.44	Neutral
Mode 4	Pass	AV	467.95k	39.80	46.55	-6.75	Line

Mode Configure

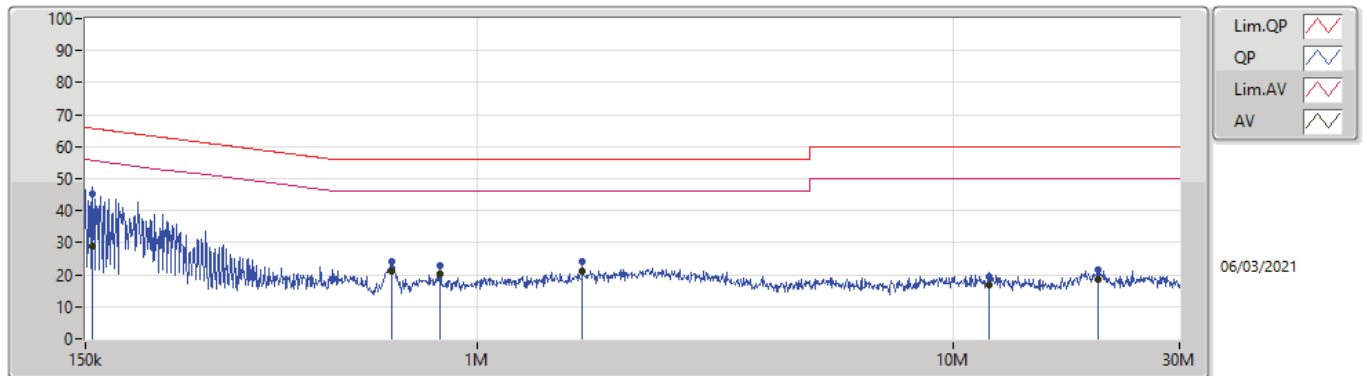
Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition	Comments
Mode 3	Pass	QP	154.868k	45.34	65.73	-20.39	Line	-
Mode 3	Pass	AV	154.868k	28.95	55.73	-26.78	Line	-
Mode 3	Pass	QP	662.266k	24.19	56.00	-31.81	Line	-
Mode 3	Pass	AV	662.266k	21.12	46.00	-24.88	Line	-
Mode 3	Pass	QP	834.81k	22.80	56.00	-33.20	Line	-
Mode 3	Pass	AV	834.81k	20.22	46.00	-25.78	Line	-
Mode 3	Pass	QP	1.665M	24.32	56.00	-31.68	Line	-
Mode 3	Pass	AV	1.665M	20.95	46.00	-25.05	Line	-
Mode 3	Pass	QP	11.967M	19.60	60.00	-40.40	Line	-
Mode 3	Pass	AV	11.967M	16.79	50.00	-33.21	Line	-
Mode 3	Pass	QP	20.269M	21.71	60.00	-38.29	Line	-
Mode 3	Pass	AV	20.269M	18.41	50.00	-31.59	Line	-
Mode 3	Pass	QP	151.202k	46.48	65.92	-19.44	Neutral	-
Mode 3	Pass	AV	151.202k	29.91	55.92	-26.01	Neutral	-
Mode 3	Pass	QP	656.999k	22.72	56.00	-33.28	Neutral	-
Mode 3	Pass	AV	656.999k	19.31	46.00	-26.69	Neutral	-
Mode 3	Pass	QP	834.81k	21.30	56.00	-34.70	Neutral	-
Mode 3	Pass	AV	834.81k	19.57	46.00	-26.43	Neutral	-
Mode 3	Pass	QP	1.672M	21.64	56.00	-34.36	Neutral	-
Mode 3	Pass	AV	1.672M	18.33	46.00	-27.67	Neutral	-
Mode 3	Pass	QP	9.608M	20.09	60.00	-39.91	Neutral	-
Mode 3	Pass	AV	9.608M	17.21	50.00	-32.79	Neutral	-
Mode 3	Pass	QP	18.713M	24.25	60.00	-35.75	Neutral	-
Mode 3	Pass	AV	18.713M	20.84	50.00	-29.16	Neutral	-
Mode 4	Pass	QP	157.361k	51.47	65.60	-14.13	Line	-
Mode 4	Pass	AV	157.361k	35.79	55.60	-19.81	Line	-
Mode 4	Pass	QP	467.95k	45.18	56.55	-11.37	Line	-
Mode 4	Pass	AV	467.95k	39.80	46.55	-6.75	Line	-
Mode 4	Pass	QP	582.846k	35.92	56.00	-20.08	Line	-
Mode 4	Pass	AV	582.846k	32.38	46.00	-13.62	Line	-
Mode 4	Pass	QP	1.84M	34.13	56.00	-21.87	Line	-
Mode 4	Pass	AV	1.84M	29.41	46.00	-16.59	Line	-
Mode 4	Pass	QP	4.394M	32.16	56.00	-23.84	Line	-
Mode 4	Pass	AV	4.394M	27.13	46.00	-18.87	Line	-
Mode 4	Pass	QP	12.504M	31.57	60.00	-28.43	Line	-
Mode 4	Pass	AV	12.504M	26.97	50.00	-23.03	Line	-
Mode 4	Pass	QP	159.256k	51.20	65.50	-14.30	Neutral	-
Mode 4	Pass	AV	159.256k	34.87	55.50	-20.63	Neutral	-
Mode 4	Pass	QP	467.95k	45.12	56.55	-11.43	Neutral	-
Mode 4	Pass	AV	467.95k	39.72	46.55	-6.83	Neutral	-
Mode 4	Pass	QP	599.363k	34.18	56.00	-21.82	Neutral	-
Mode 4	Pass	AV	599.363k	30.51	46.00	-15.49	Neutral	-
Mode 4	Pass	QP	975.445k	31.46	56.00	-24.54	Neutral	-



Conducted Emissions at Powerline_Non-Beamforming_Radio3 Appendix A.2

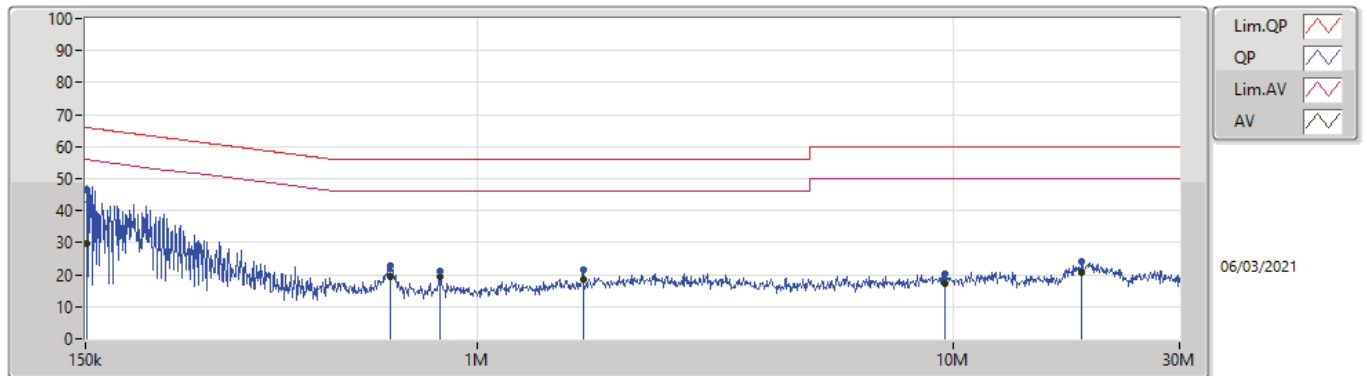
Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition	Comments
Mode 4	Pass	AV	975.445k	27.54	46.00	-18.46	Neutral	-
Mode 4	Pass	QP	5.321M	28.52	60.00	-31.48	Neutral	-
Mode 4	Pass	AV	5.321M	23.04	50.00	-26.96	Neutral	-
Mode 4	Pass	QP	13.543M	29.34	60.00	-30.66	Neutral	-
Mode 4	Pass	AV	13.543M	25.00	50.00	-25.00	Neutral	-

Conducted Emissions at Powerline Mode 3



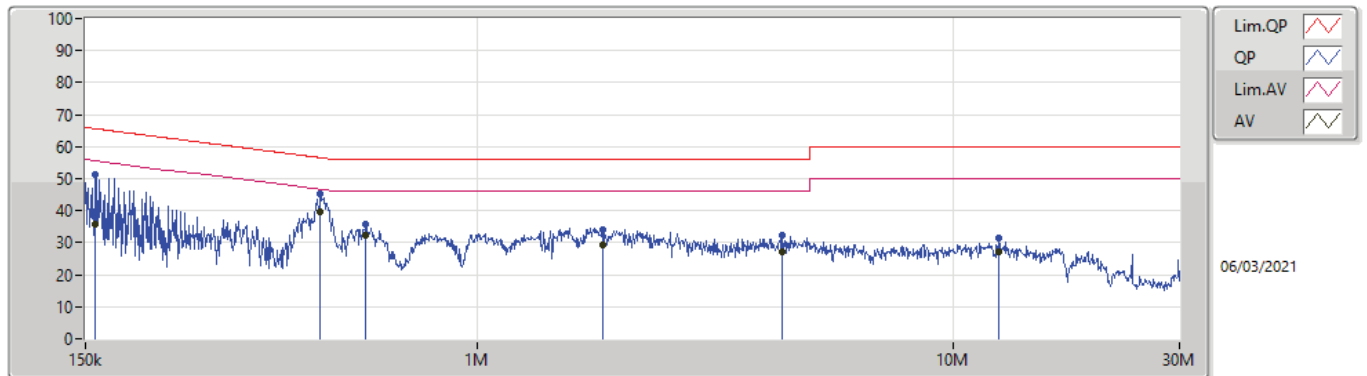
Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	154.868k	45.34	65.73	-20.39	19.63	Line	-	25.71	9.69	0.04	9.90			
AV	154.868k	28.95	55.73	-26.78	19.63	Line	-	9.32	9.69	0.04	9.90			
QP	662.266k	24.19	56.00	-31.81	19.58	Line	-	4.61	9.67	0.07	9.84			
AV	662.266k	21.12	46.00	-24.88	19.58	Line	-	1.54	9.67	0.07	9.84			
QP	834.81k	22.80	56.00	-33.20	19.57	Line	-	3.23	9.67	0.08	9.82			
AV	834.81k	20.22	46.00	-25.78	19.57	Line	-	0.65	9.67	0.08	9.82			
QP	1.665M	24.32	56.00	-31.68	19.57	Line	-	4.75	9.68	0.09	9.80			
AV	1.665M	20.95	46.00	-25.05	19.57	Line	-	1.38	9.68	0.09	9.80			
QP	11.967M	19.60	60.00	-40.40	19.83	Line	-	-0.23	9.71	0.22	9.90			
AV	11.967M	16.79	50.00	-33.21	19.83	Line	-	-3.04	9.71	0.22	9.90			
QP	20.269M	21.71	60.00	-38.29	19.87	Line	-	1.84	9.67	0.30	9.90			
AV	20.269M	18.41	50.00	-31.59	19.87	Line	-	-1.46	9.67	0.30	9.90			

Conducted Emissions at Powerline Mode 3



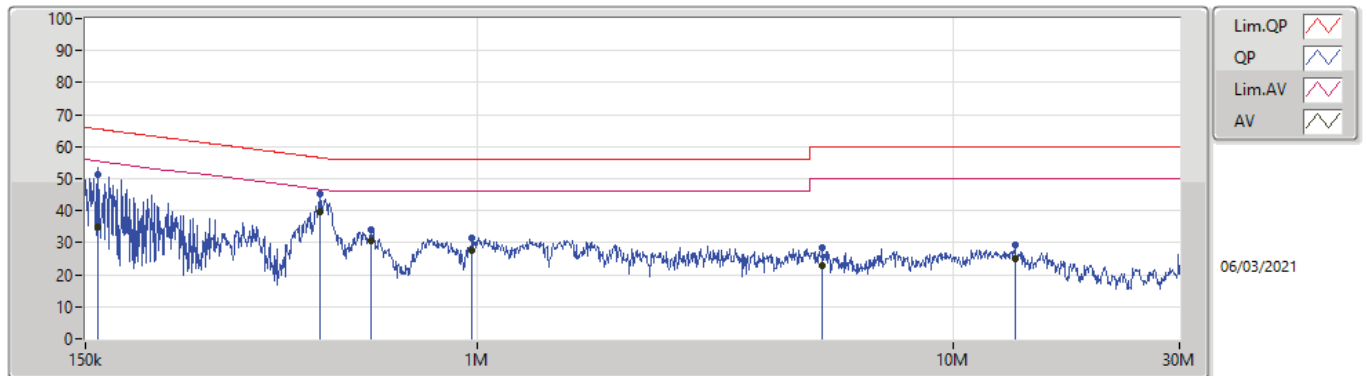
Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	151.202k	46.48	65.92	-19.44	19.63	Neutral	-	26.85	9.69	0.04	9.90			
AV	151.202k	29.91	55.92	-26.01	19.63	Neutral	-	10.28	9.69	0.04	9.90			
QP	656.999k	22.72	56.00	-33.28	19.59	Neutral	-	3.13	9.67	0.07	9.85			
AV	656.999k	19.31	46.00	-26.69	19.59	Neutral	-	-0.28	9.67	0.07	9.85			
QP	834.81k	21.30	56.00	-34.70	19.57	Neutral	-	1.73	9.67	0.08	9.82			
AV	834.81k	19.57	46.00	-26.43	19.57	Neutral	-	0.00	9.67	0.08	9.82			
QP	1.672M	21.64	56.00	-34.36	19.57	Neutral	-	2.07	9.68	0.09	9.80			
AV	1.672M	18.33	46.00	-27.67	19.57	Neutral	-	-1.24	9.68	0.09	9.80			
QP	9.608M	20.09	60.00	-39.91	19.83	Neutral	-	0.26	9.73	0.20	9.90			
AV	9.608M	17.21	50.00	-32.79	19.83	Neutral	-	-2.62	9.73	0.20	9.90			
QP	18.713M	24.25	60.00	-35.75	19.94	Neutral	-	4.31	9.75	0.29	9.90			
AV	18.713M	20.84	50.00	-29.16	19.94	Neutral	-	0.90	9.75	0.29	9.90			

Conducted Emissions at Powerline Mode 4



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	157.361k	51.47	65.60	-14.13	19.63	Line	-	31.84	9.69	0.04	9.90			
AV	157.361k	35.79	55.60	-19.81	19.63	Line	-	16.16	9.69	0.04	9.90			
QP	467.95k	45.18	56.55	-11.37	19.61	Line	-	25.57	9.67	0.06	9.88			
AV	467.95k	39.80	46.55	-6.75	19.61	Line	-	20.19	9.67	0.06	9.88			
QP	582.846k	35.92	56.00	-20.08	19.60	Line	-	16.32	9.67	0.07	9.86			
AV	582.846k	32.38	46.00	-13.62	19.60	Line	-	12.78	9.67	0.07	9.86			
QP	1.84M	34.13	56.00	-21.87	19.58	Line	-	14.55	9.68	0.10	9.80			
AV	1.84M	29.41	46.00	-16.59	19.58	Line	-	9.83	9.68	0.10	9.80			
QP	4.394M	32.16	56.00	-23.84	19.74	Line	-	12.42	9.69	0.15	9.90			
AV	4.394M	27.13	46.00	-18.87	19.74	Line	-	7.39	9.69	0.15	9.90			
QP	12.504M	31.57	60.00	-28.43	19.83	Line	-	11.74	9.70	0.23	9.90			
AV	12.504M	26.97	50.00	-23.03	19.83	Line	-	7.14	9.70	0.23	9.90			

Conducted Emissions at Powerline Mode 4



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	159.256k	51.20	65.50	-14.30	19.63	Neutral	-	31.57	9.69	0.04	9.90			
AV	159.256k	34.87	55.50	-20.63	19.63	Neutral	-	15.24	9.69	0.04	9.90			
QP	467.95k	45.12	56.55	-11.43	19.61	Neutral	-	25.51	9.67	0.06	9.88			
AV	467.95k	39.72	46.55	-6.83	19.61	Neutral	-	20.11	9.67	0.06	9.88			
QP	599.363k	34.18	56.00	-21.82	19.60	Neutral	-	14.58	9.67	0.07	9.86			
AV	599.363k	30.51	46.00	-15.49	19.60	Neutral	-	10.91	9.67	0.07	9.86			
QP	975.445k	31.46	56.00	-24.54	19.55	Neutral	-	11.91	9.67	0.08	9.80			
AV	975.445k	27.54	46.00	-18.46	19.55	Neutral	-	7.99	9.67	0.08	9.80			
QP	5.321M	28.52	60.00	-31.48	19.76	Neutral	-	8.76	9.70	0.16	9.90			
AV	5.321M	23.04	50.00	-26.96	19.76	Neutral	-	3.28	9.70	0.16	9.90			
QP	13.543M	29.34	60.00	-30.66	19.88	Neutral	-	9.46	9.74	0.24	9.90			
AV	13.543M	25.00	50.00	-25.00	19.88	Neutral	-	5.12	9.74	0.24	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)_4TX	36.84M	18.021M	18M0D1D	19.32M	16.402M
802.11n HT20_Nss1,(MCS0)_4TX	38.49M	18.171M	18M2D1D	20.37M	17.571M
802.11n HT40_Nss1,(MCS0)_4TX	41.28M	36.462M	36M5D1D	39.9M	36.222M
802.11ac VHT20_Nss1,(MCS0)_4TX	38.58M	18.111M	18M1D1D	20.49M	17.601M
802.11ac VHT40_Nss1,(MCS0)_4TX	41.58M	36.402M	36M4D1D	40.38M	36.282M
802.11ac VHT80_Nss1,(MCS0)_4TX	82.44M	75.922M	75M9D1D	81.36M	75.562M
802.11ax HEW20_Nss1,(MCS0)_4TX	37.8M	19.28M	19M3D1D	21.15M	18.891M
802.11ax HEW40_Nss1,(MCS0)_4TX	41.34M	38.021M	38M0D1D	40.68M	37.721M
802.11ax HEW80_Nss1,(MCS0)_4TX	82.56M	77.481M	77M5D1D	82.08M	77.241M
5.725-5.85GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	16.44M	24.108M	24M1D1D	16.32M	16.732M
802.11n HT20_Nss1,(MCS0)_4TX	16.41M	31.424M	31M4D1D	16.32M	16.642M
802.11n HT40_Nss1,(MCS0)_4TX	36.36M	43.178M	43M2D1D	35.04M	36.462M
802.11ac VHT20_Nss1,(MCS0)_4TX	17.58M	34.363M	34M4D1D	15.06M	17.601M
802.11ac VHT40_Nss1,(MCS0)_4TX	36.36M	41.619M	41M6D1D	35.04M	36.462M
802.11ac VHT80_Nss1,(MCS0)_4TX	73.32M	75.802M	75M8D1D	71.4M	75.322M
802.11ax HEW20_Nss1,(MCS0)_4TX	19.05M	36.222M	36M2D1D	16.68M	19.01M
802.11ax HEW40_Nss1,(MCS0)_4TX	37.98M	46.897M	46M9D1D	36.06M	38.141M
802.11ax HEW80_Nss1,(MCS0)_4TX	77.88M	77.601M	77M6D1D	72M	76.882M

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

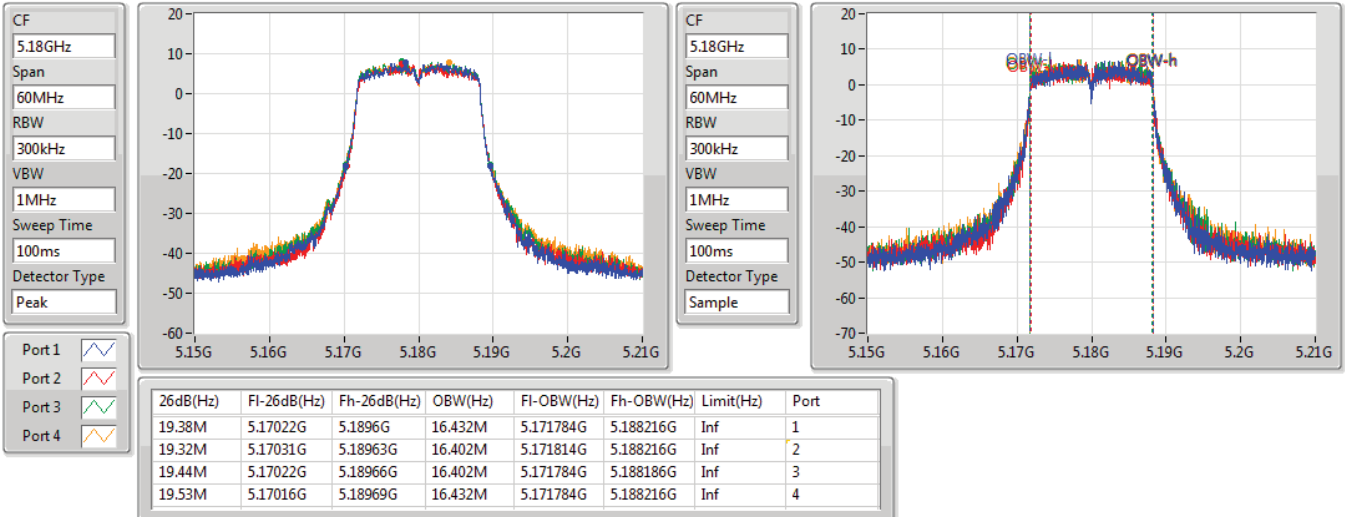
**Result**

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)	Port 3-N dB (Hz)	Port 3-OBW (Hz)	Port 4-N dB (Hz)	Port 4-OBW (Hz)
802.11a_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	Inf	19.38M	16.432M	19.32M	16.402M	19.44M	16.402M	19.53M	16.432M
5200MHz	Pass	Inf	19.35M	16.432M	19.47M	16.522M	19.92M	16.432M	20.61M	16.492M
5240MHz	Pass	Inf	36.69M	17.031M	33.3M	16.882M	35.04M	16.972M	36.84M	18.021M
5745MHz	Pass	500k	16.35M	20.66M	16.44M	22.339M	16.32M	19.67M	16.41M	24.108M
5785MHz	Pass	500k	16.38M	16.822M	16.41M	16.732M	16.41M	16.882M	16.44M	16.882M
5825MHz	Pass	500k	16.41M	17.031M	16.38M	17.061M	16.35M	17.001M	16.38M	16.852M
802.11n HT20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	Inf	20.37M	17.631M	20.76M	17.631M	20.91M	17.631M	20.73M	17.631M
5200MHz	Pass	Inf	20.46M	17.571M	20.73M	17.631M	20.4M	17.631M	20.7M	17.631M
5240MHz	Pass	Inf	35.19M	17.961M	34.44M	17.901M	35.16M	17.931M	38.49M	18.171M
5745MHz	Pass	500k	16.41M	16.762M	16.41M	16.732M	16.32M	16.642M	16.41M	16.822M
5785MHz	Pass	500k	16.35M	22.309M	16.35M	21.649M	16.35M	22.999M	16.41M	31.424M
5825MHz	Pass	500k	16.32M	18.921M	16.35M	19.04M	16.41M	18.981M	16.35M	28.096M
802.11n HT40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	Inf	40.38M	36.222M	40.32M	36.222M	39.9M	36.282M	40.68M	36.222M
5230MHz	Pass	Inf	40.2M	36.462M	40.56M	36.282M	41.28M	36.342M	40.8M	36.282M
5755MHz	Pass	500k	35.4M	36.462M	35.7M	36.642M	35.04M	36.582M	35.28M	36.582M
5795MHz	Pass	500k	35.88M	37.361M	36.36M	38.681M	35.64M	39.04M	35.64M	43.178M
802.11ac VHT20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	Inf	20.61M	17.631M	20.67M	17.691M	20.49M	17.601M	20.88M	17.631M
5200MHz	Pass	Inf	20.82M	17.661M	20.76M	17.661M	21.06M	17.661M	21.21M	17.661M
5240MHz	Pass	Inf	32.07M	17.931M	33.72M	17.931M	34.92M	17.901M	38.58M	18.111M
5745MHz	Pass	500k	16.89M	17.721M	17.16M	17.721M	15.06M	17.601M	17.25M	17.721M
5785MHz	Pass	500k	16.29M	21.409M	15.96M	22.069M	17.55M	25.877M	17.58M	34.363M
5825MHz	Pass	500k	16.26M	18.861M	16.89M	19.22M	16.89M	19.37M	17.13M	29.925M
802.11ac VHT40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	Inf	40.56M	36.342M	40.68M	36.402M	40.44M	36.282M	41.16M	36.282M
5230MHz	Pass	Inf	41.4M	36.282M	40.86M	36.282M	40.38M	36.342M	41.58M	36.282M
5755MHz	Pass	500k	36.36M	36.582M	35.46M	36.642M	35.04M	36.462M	35.64M	36.642M
5795MHz	Pass	500k	36.3M	37.301M	35.04M	38.921M	35.64M	38.741M	35.88M	41.619M
802.11ac VHT80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	Inf	81.36M	75.682M	82.44M	75.802M	81.96M	75.922M	81.84M	75.562M
5775MHz	Pass	500k	72.6M	75.802M	72.24M	75.562M	71.4M	75.322M	73.32M	75.802M
802.11ax HEW20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	Inf	21.24M	18.921M	21.33M	18.981M	21.15M	18.921M	21.78M	18.951M
5200MHz	Pass	Inf	21.48M	19.01M	21.21M	18.891M	23.7M	18.951M	21.72M	18.981M
5240MHz	Pass	Inf	35.55M	19.19M	35.76M	19.13M	33.84M	19.1M	37.8M	19.28M
5745MHz	Pass	500k	18.06M	19.01M	18.87M	19.07M	19.05M	19.13M	18.6M	19.1M
5785MHz	Pass	500k	16.89M	23.478M	18.69M	21.259M	18.63M	26.177M	18.87M	36.222M
5825MHz	Pass	500k	17.01M	19.7M	18.84M	19.49M	16.68M	19.88M	18.99M	30.975M
802.11ax HEW40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	Inf	41.1M	37.841M	40.68M	37.781M	40.98M	37.901M	41.22M	38.021M
5230MHz	Pass	Inf	40.86M	37.721M	40.74M	38.021M	41.16M	37.961M	41.34M	38.021M
5755MHz	Pass	500k	37.86M	38.141M	37.56M	38.261M	37.74M	38.501M	37.98M	38.501M
5795MHz	Pass	500k	37.8M	39.04M	36.06M	41.079M	37.92M	42.039M	37.98M	46.897M
802.11ax HEW80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	Inf	82.56M	77.481M	82.08M	77.481M	82.44M	77.481M	82.32M	77.241M
5775MHz	Pass	500k	77.76M	77.601M	76.44M	77.241M	72M	76.882M	77.88M	77.601M

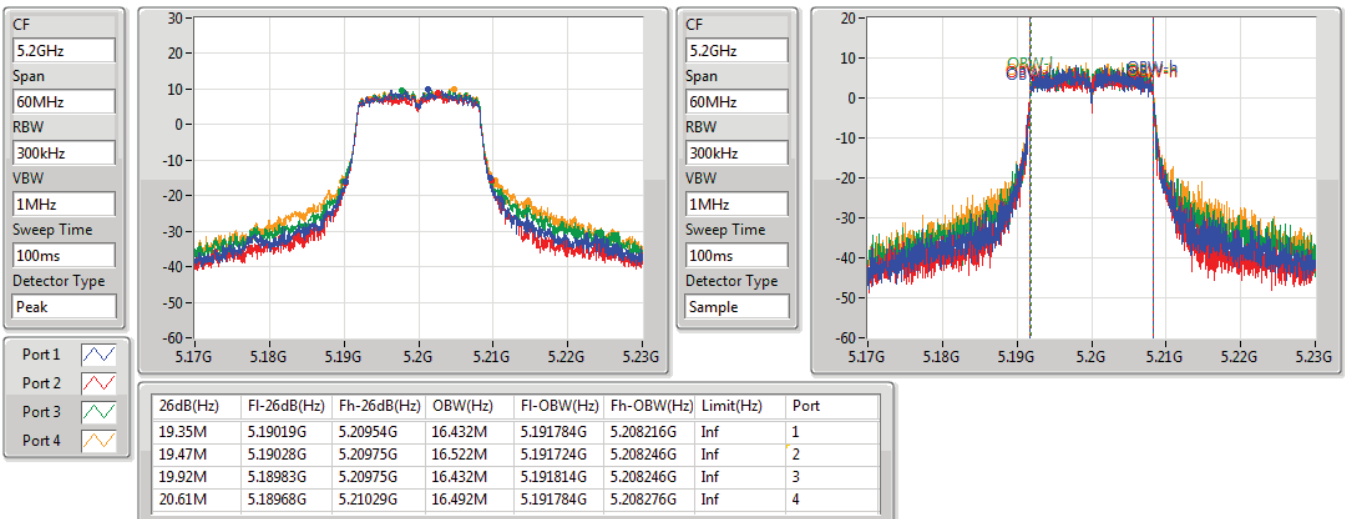
Port X-N dB = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band
Port X-OBW = Port X 99% occupied bandwidth

802.11a_Nss1,(6Mbps)_4TX
EBW
5180MHz

23/02/2021

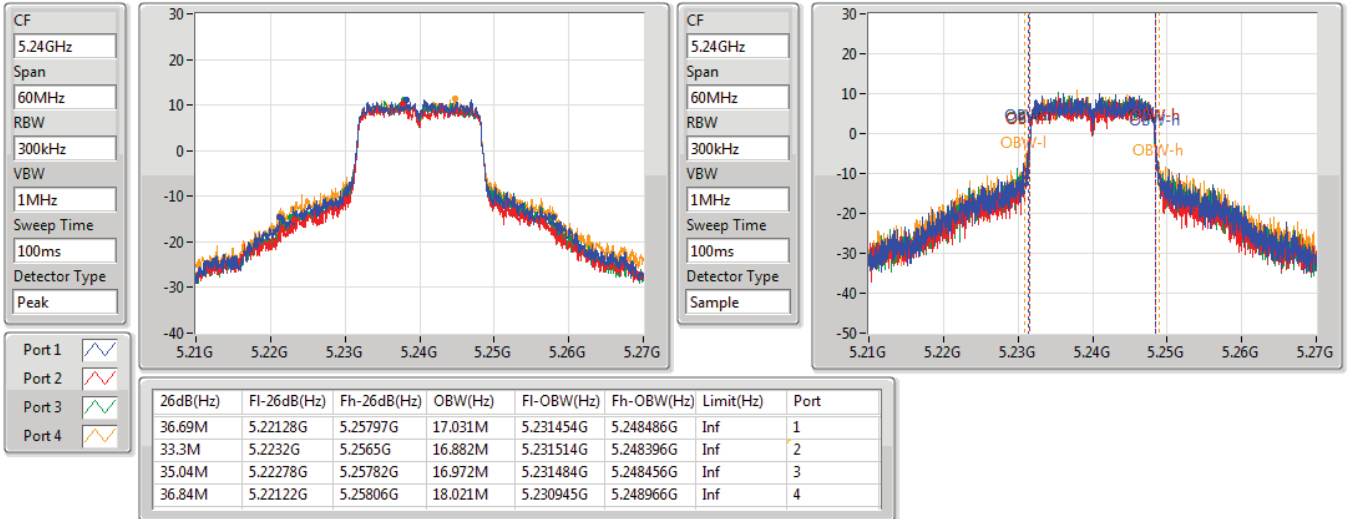

802.11a_Nss1,(6Mbps)_4TX
EBW
5200MHz

09/03/2021

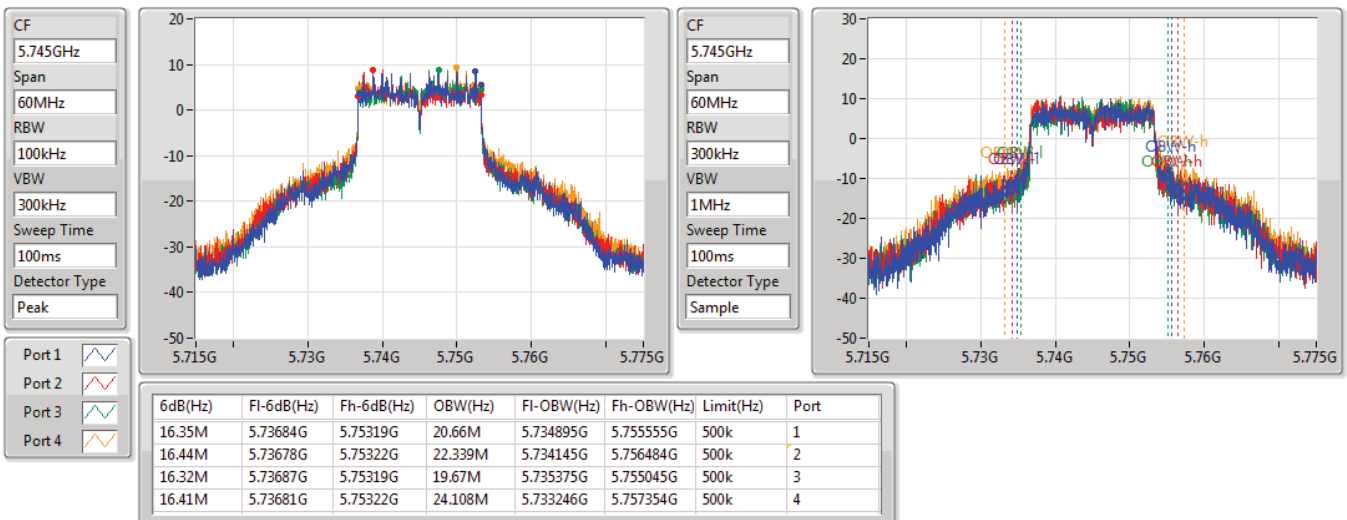


802.11a_Nss1,(6Mbps)_4TX
EBW
5240MHz

09/03/2021


802.11a_Nss1,(6Mbps)_4TX
EBW
5745MHz

23/02/2021

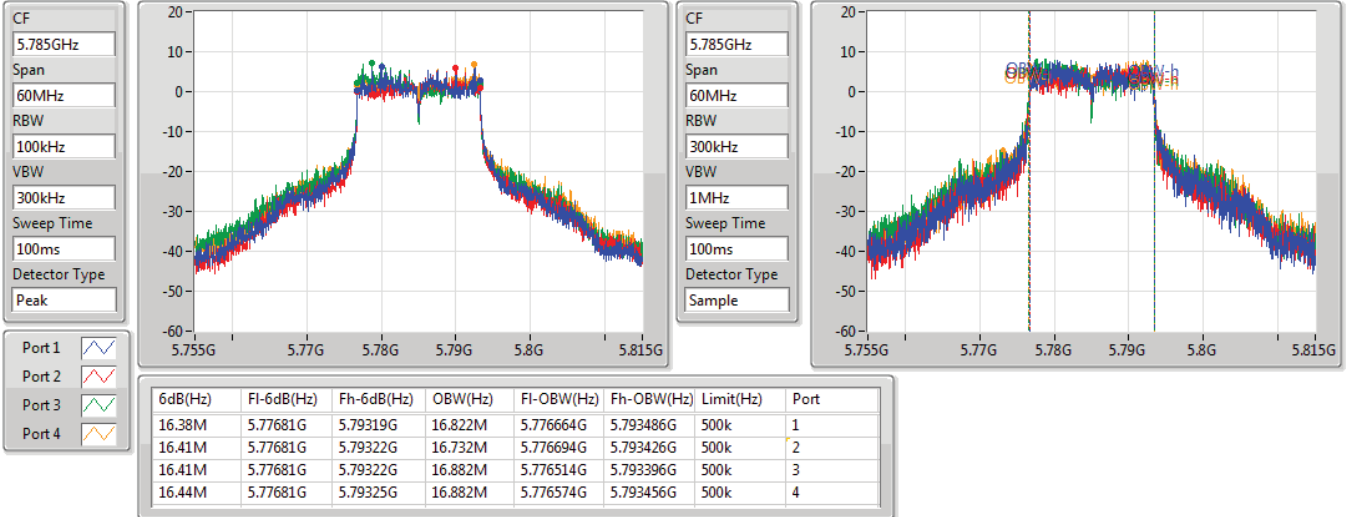


802.11a_Nss1,(6Mbps)_4TX

EBW

5785MHz

23/02/2021

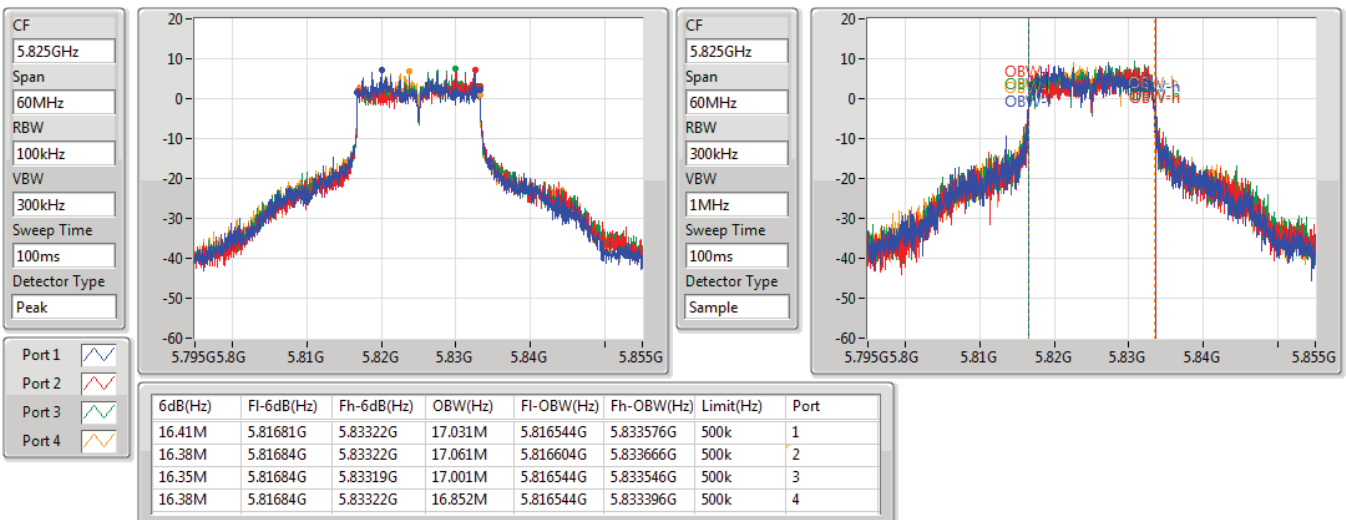


802.11a_Nss1,(6Mbps)_4TX

EBW

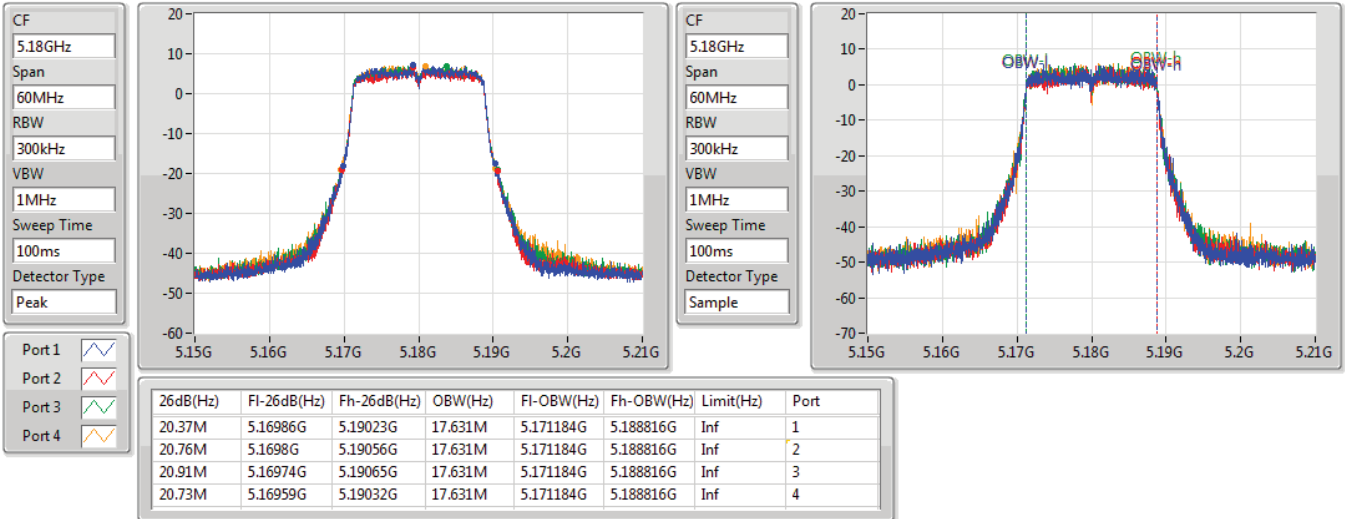
5825MHz

23/02/2021

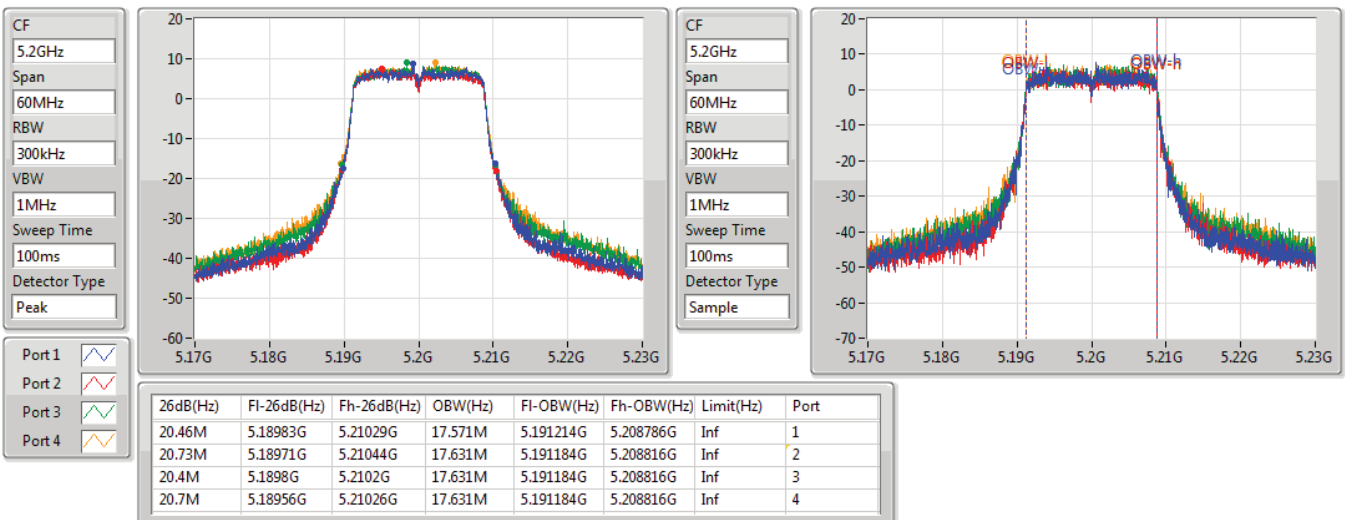


802.11n HT20_Nss1,(MCS0)_4TX
EBW
5180MHz

23/02/2021

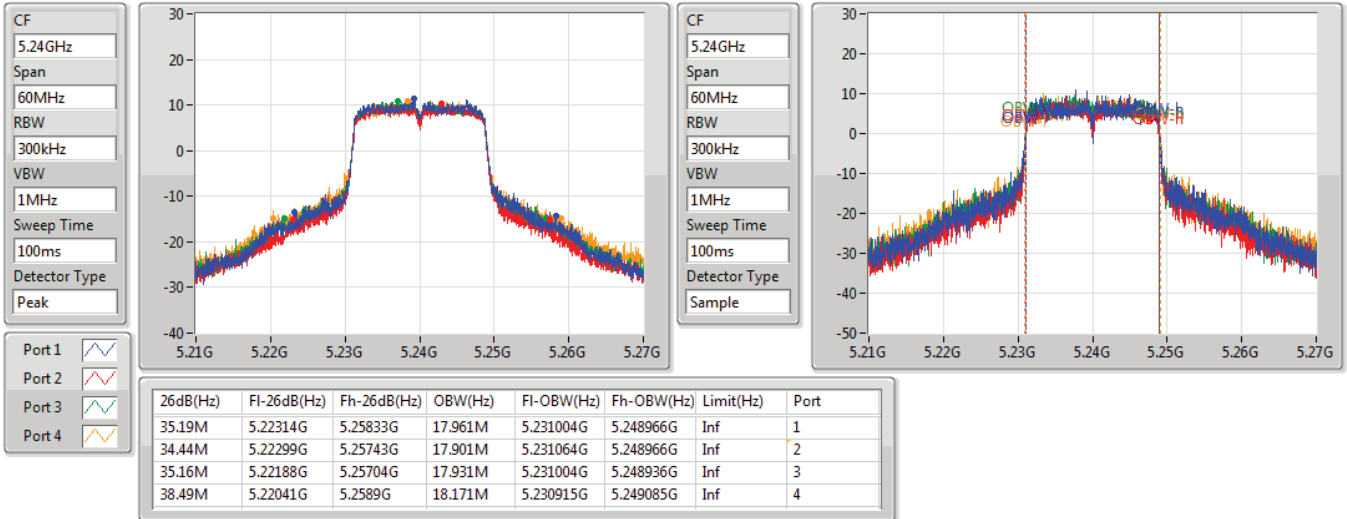

802.11n HT20_Nss1,(MCS0)_4TX
EBW
5200MHz

23/02/2021

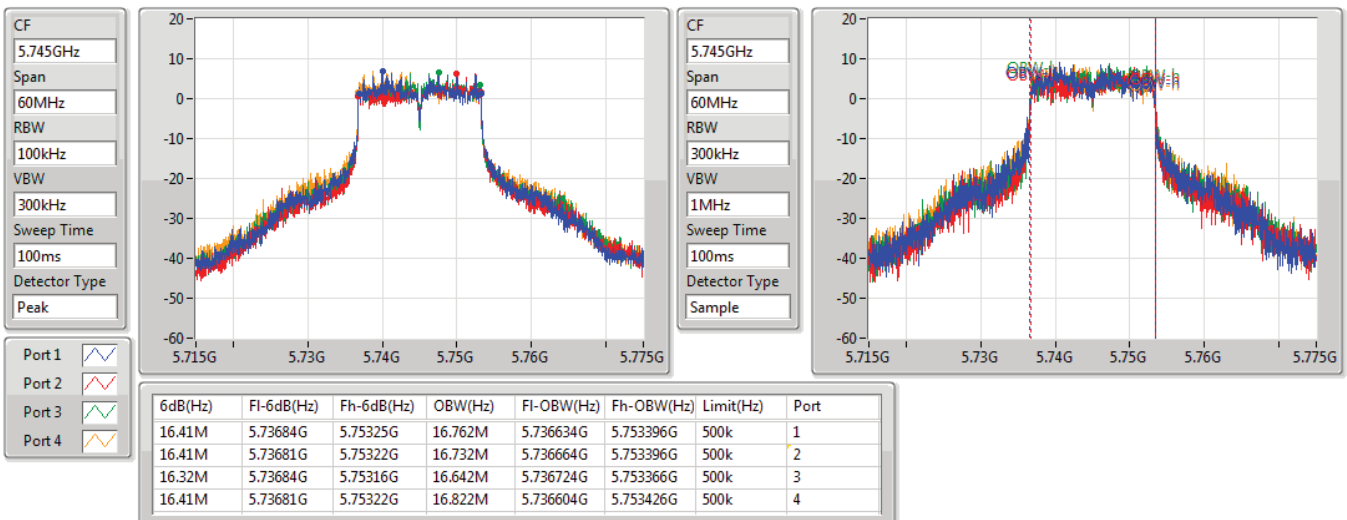


802.11n HT20_Nss1,(MCS0)_4TX
EBW
5240MHz

10/03/2021

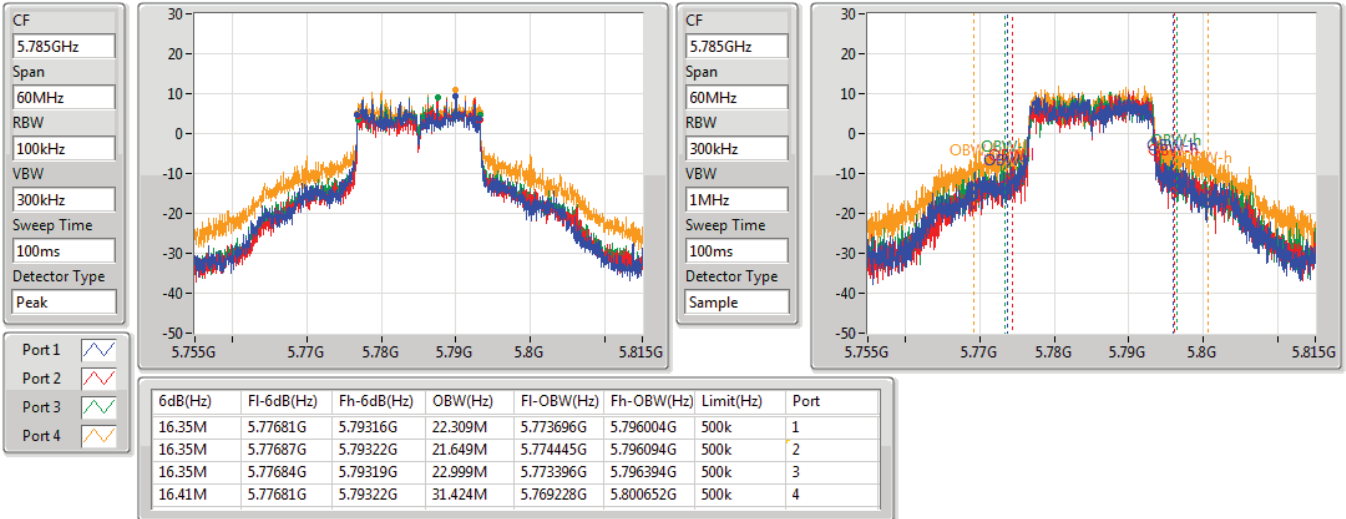

802.11n HT20_Nss1,(MCS0)_4TX
EBW
5745MHz

23/02/2021

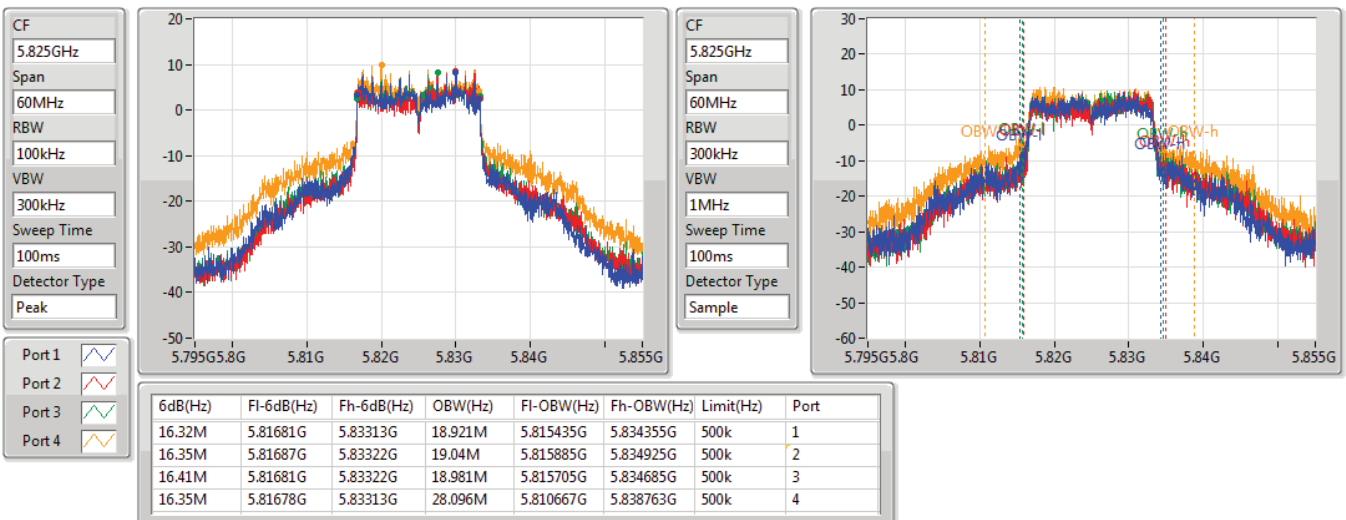


802.11n HT20_Nss1,(MCS0)_4TX
EBW
5785MHz

23/02/2021

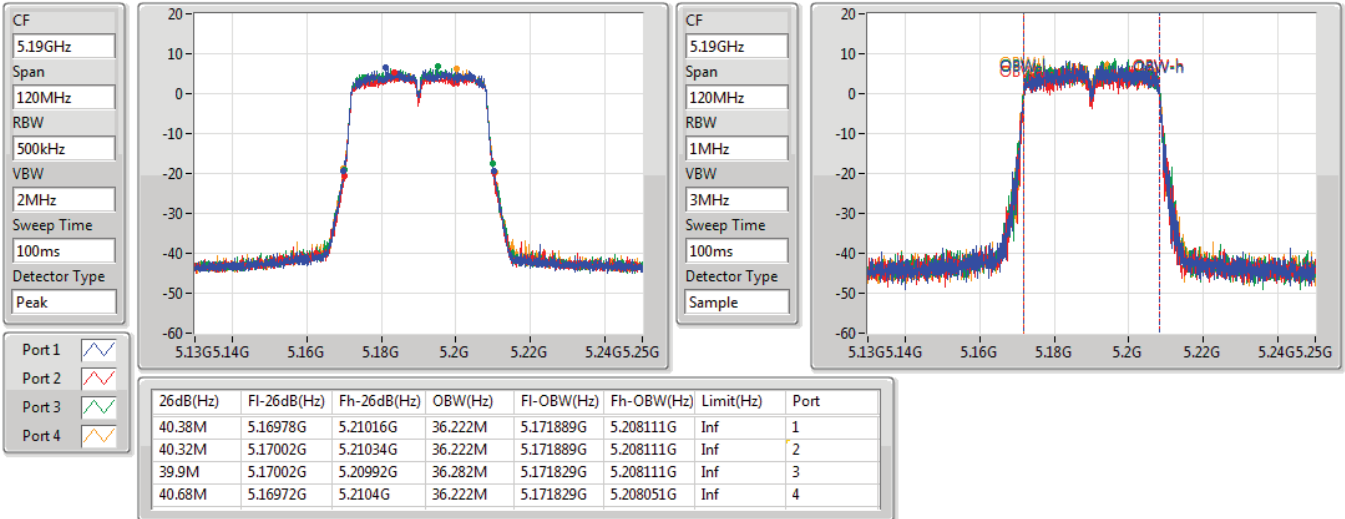

802.11n HT20_Nss1,(MCS0)_4TX
EBW
5825MHz

23/02/2021

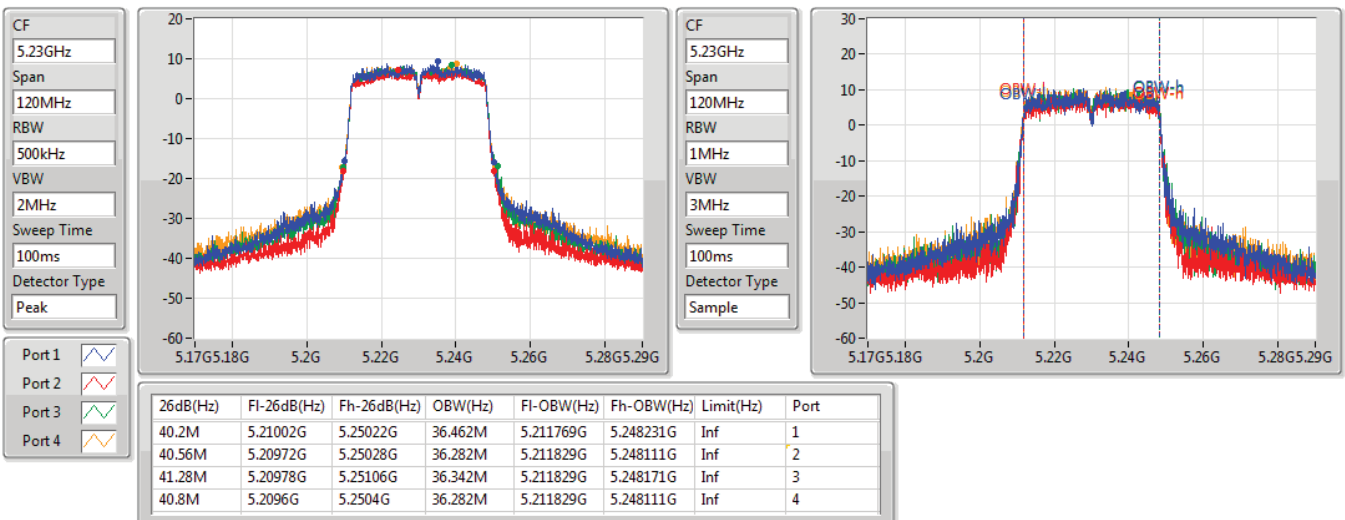


802.11n HT40_Nss1,(MCS0)_4TX
EBW
5190MHz

23/02/2021

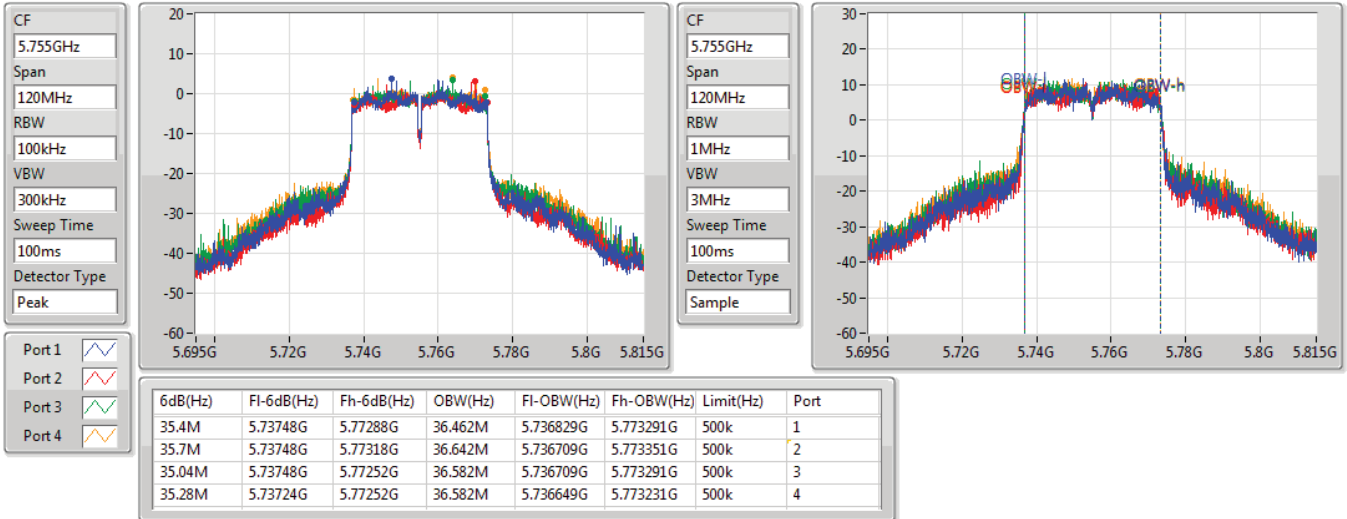

802.11n HT40_Nss1,(MCS0)_4TX
EBW
5230MHz

23/02/2021

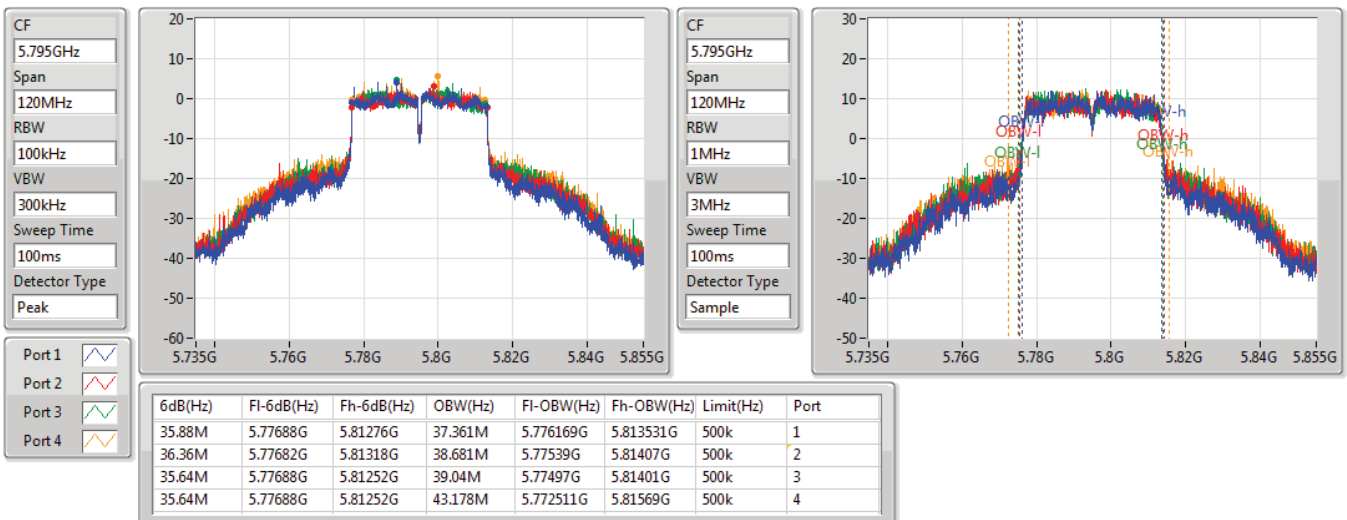


802.11n HT40_Nss1,(MCS0)_4TX
EBW
5755MHz

23/02/2021


802.11n HT40_Nss1,(MCS0)_4TX
EBW
5795MHz

23/02/2021

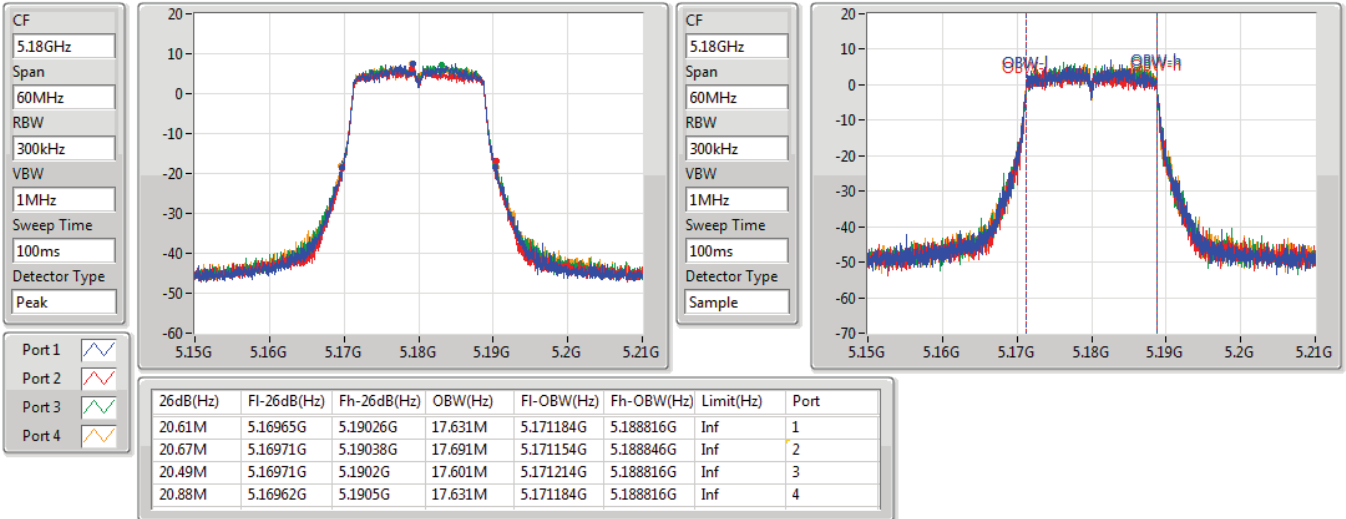


802.11ac VHT20_Nss1,(MCS0)_4TX

EBW

5180MHz

23/02/2021

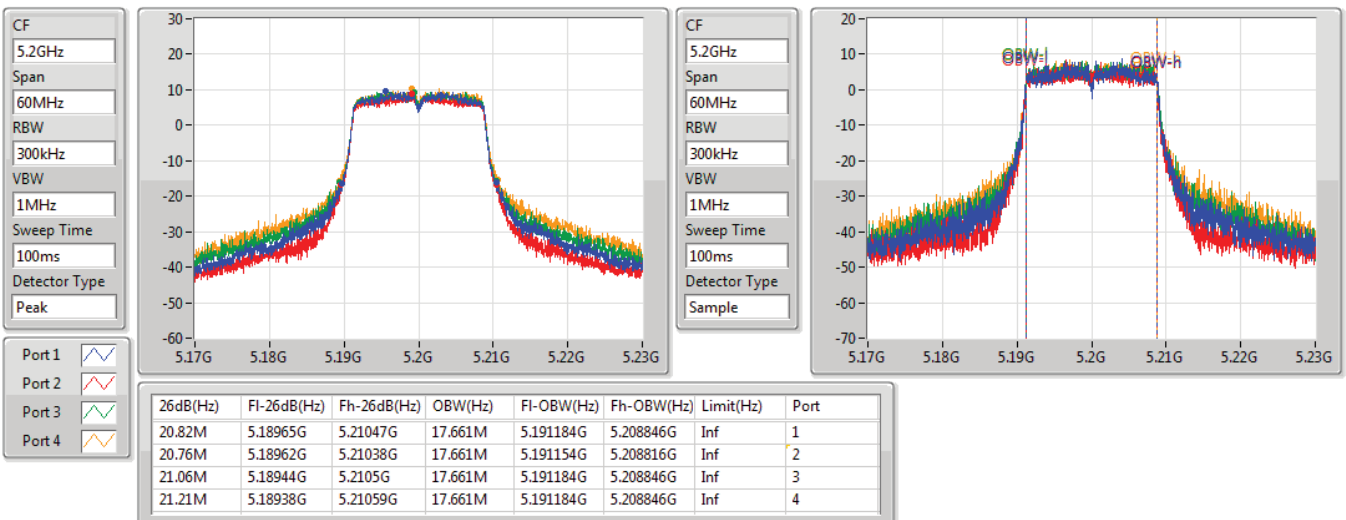


802.11ac VHT20_Nss1,(MCS0)_4TX

EBW

5200MHz

23/02/2021

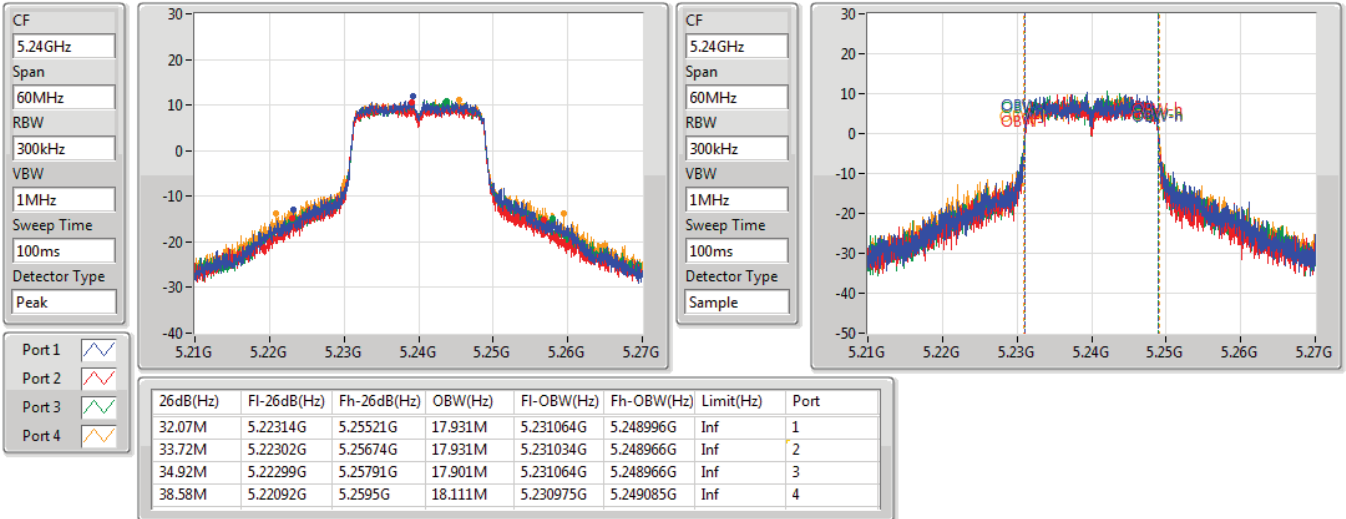


802.11ac VHT20_Nss1,(MCS0)_4TX

EBW

5240MHz

10/03/2021

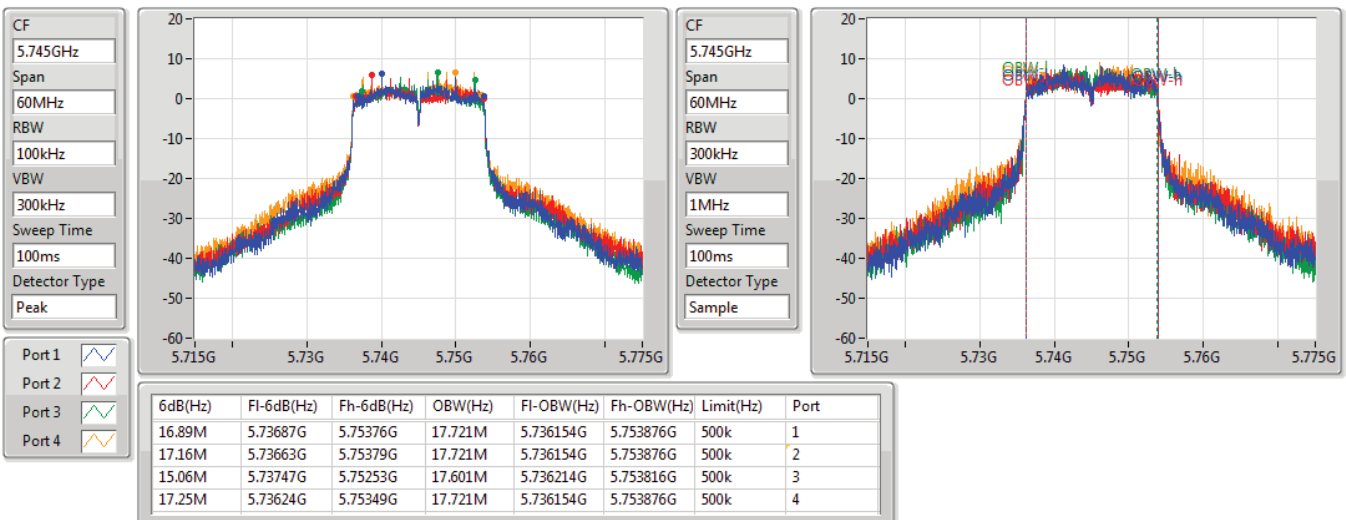


802.11ac VHT20_Nss1,(MCS0)_4TX

EBW

5745MHz

23/02/2021

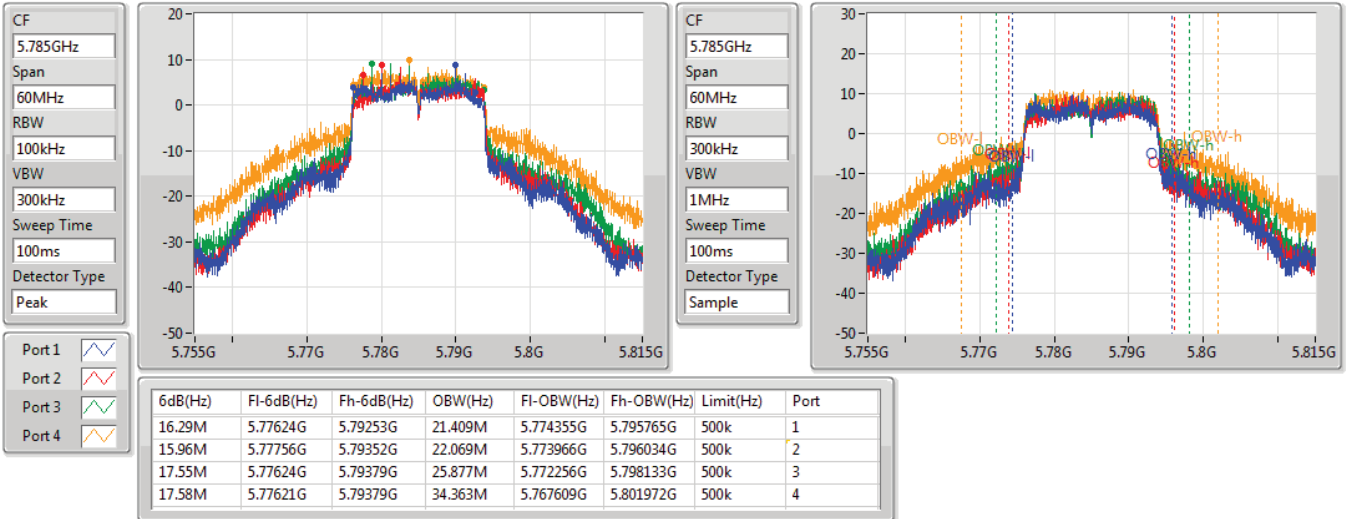


802.11ac VHT20_Nss1,(MCS0)_4TX

EBW

5785MHz

23/02/2021

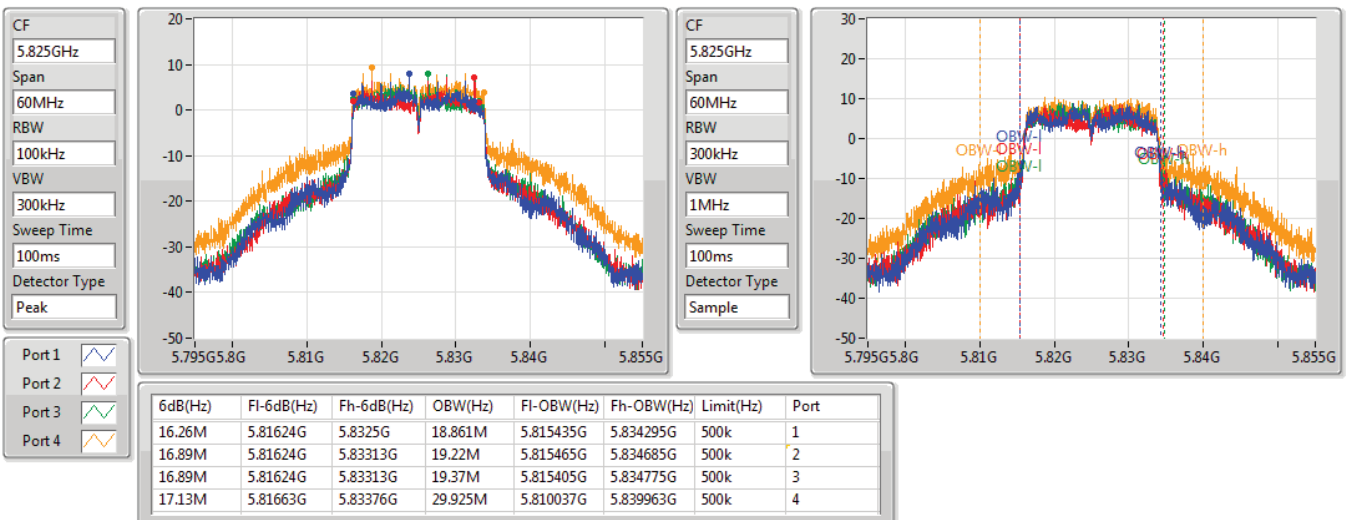


802.11ac VHT20_Nss1,(MCS0)_4TX

EBW

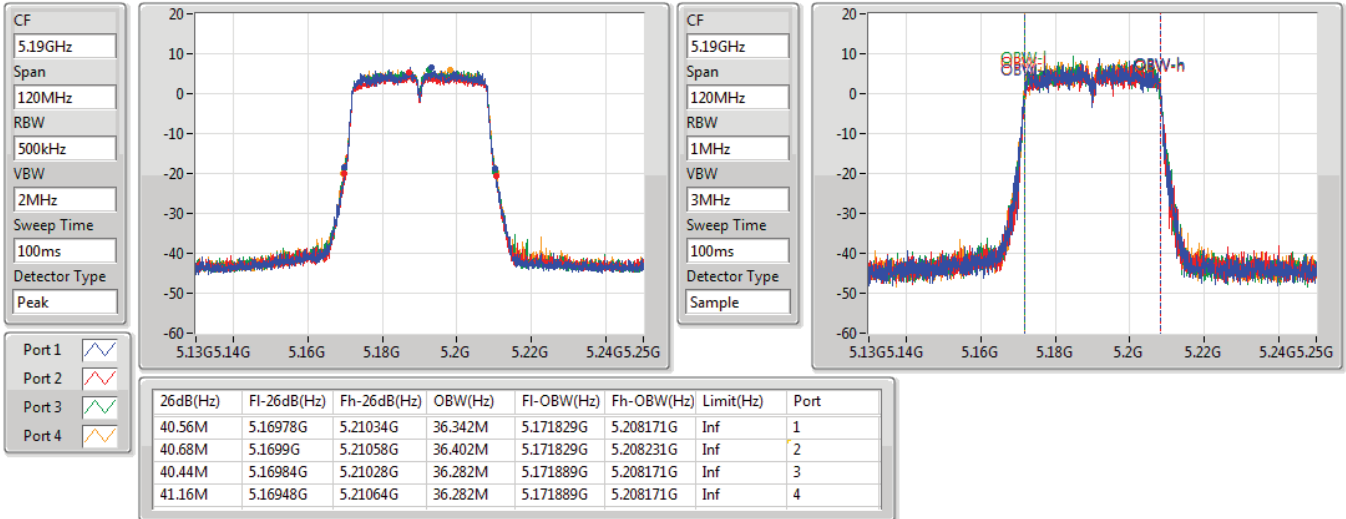
5825MHz

23/02/2021

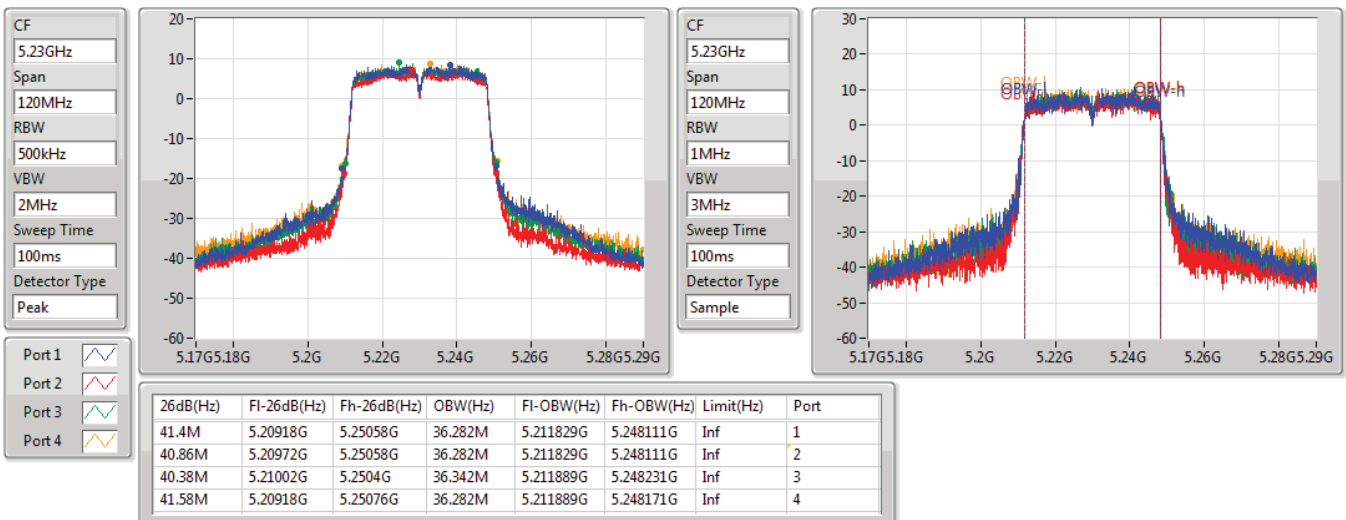


802.11ac VHT40_Nss1,(MCS0)_4TX
EBW
5190MHz

23/02/2021

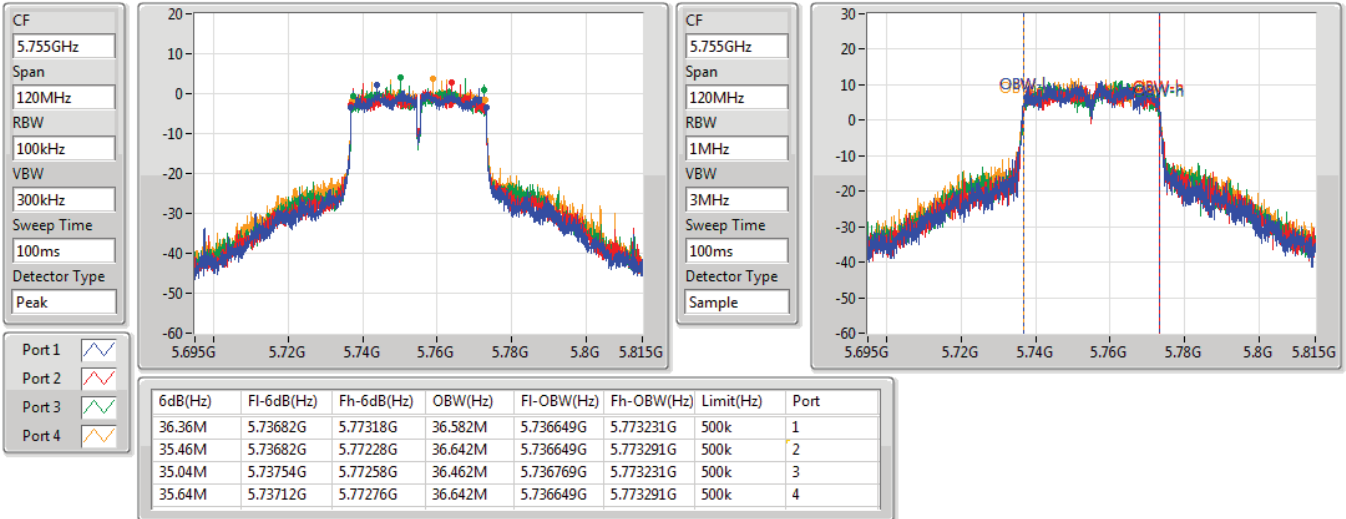

802.11ac VHT40_Nss1,(MCS0)_4TX
EBW
5230MHz

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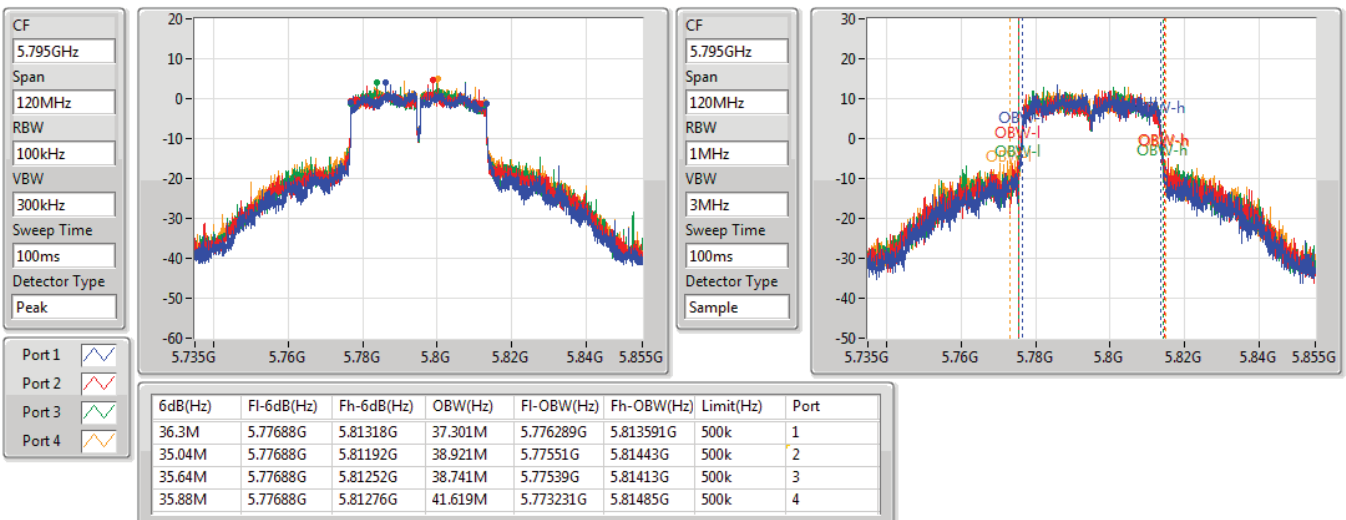


802.11ac VHT40_Nss1,(MCS0)_4TX
EBW
5755MHz

23/02/2021

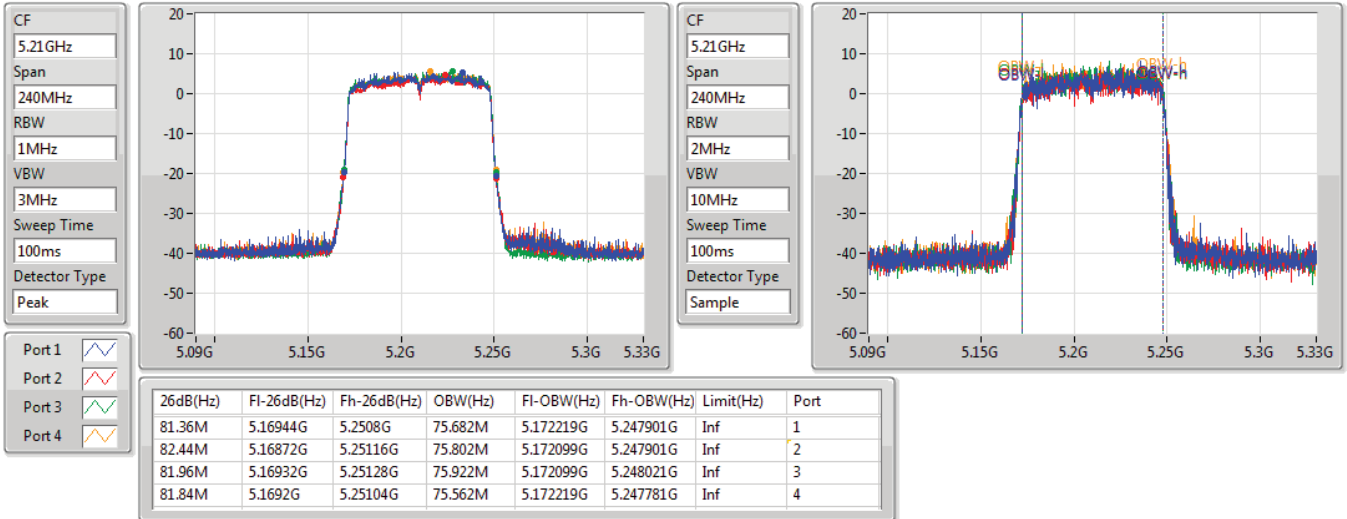

802.11ac VHT40_Nss1,(MCS0)_4TX
EBW
5795MHz

23/02/2021

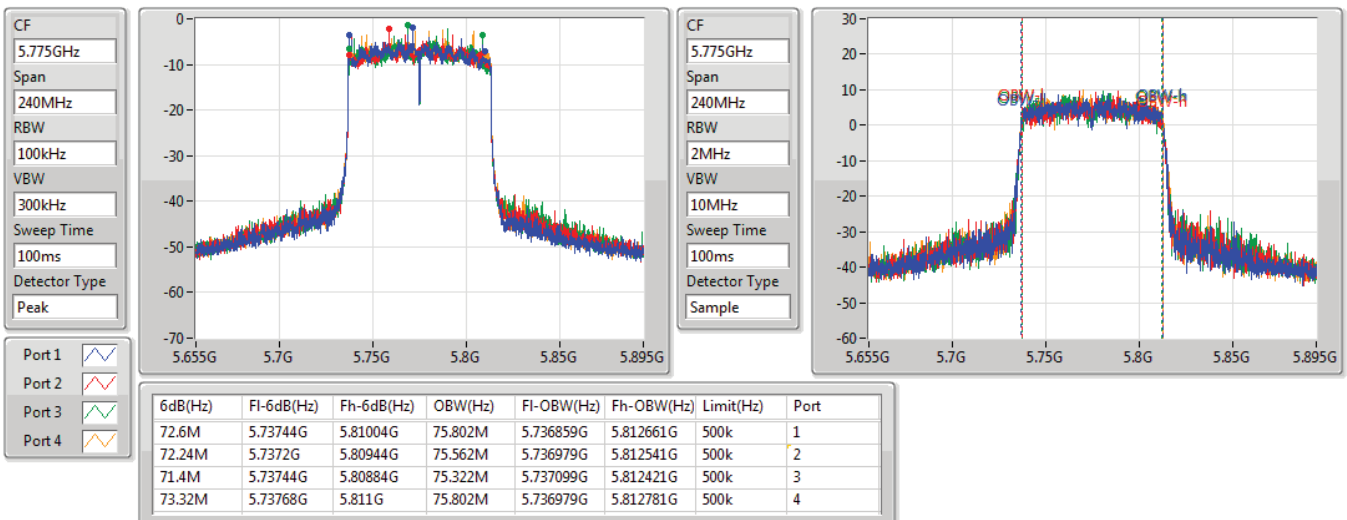


802.11ac VHT80_Nss1,(MCS0)_4TX
EBW
5210MHz

23/02/2021


802.11ac VHT80_Nss1,(MCS0)_4TX
EBW
5775MHz

23/02/2021

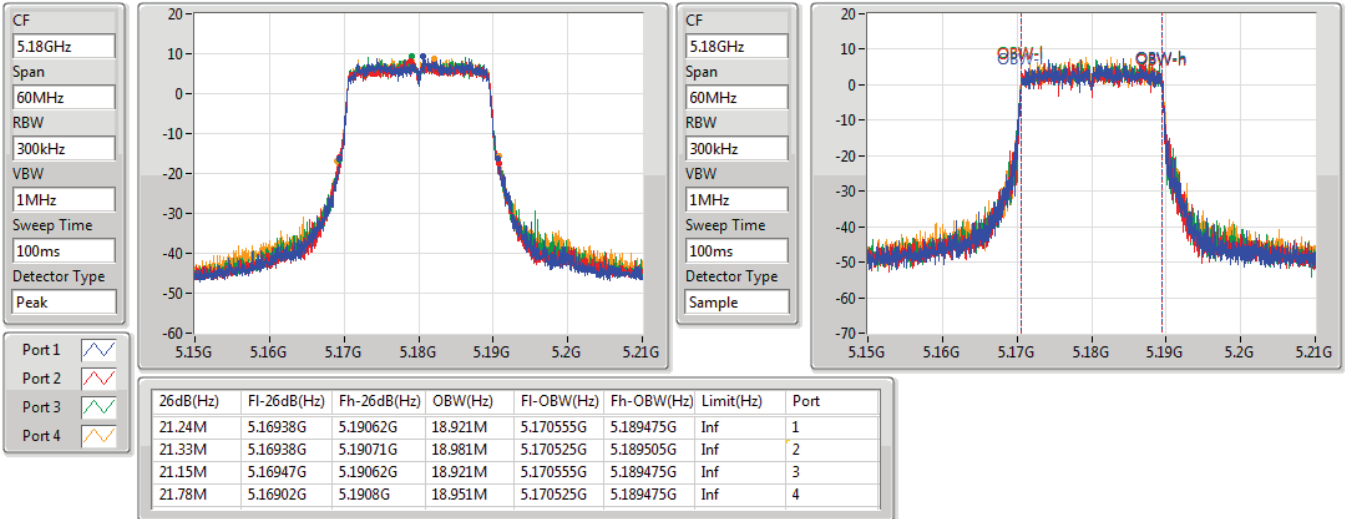


802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

5180MHz

23/02/2021

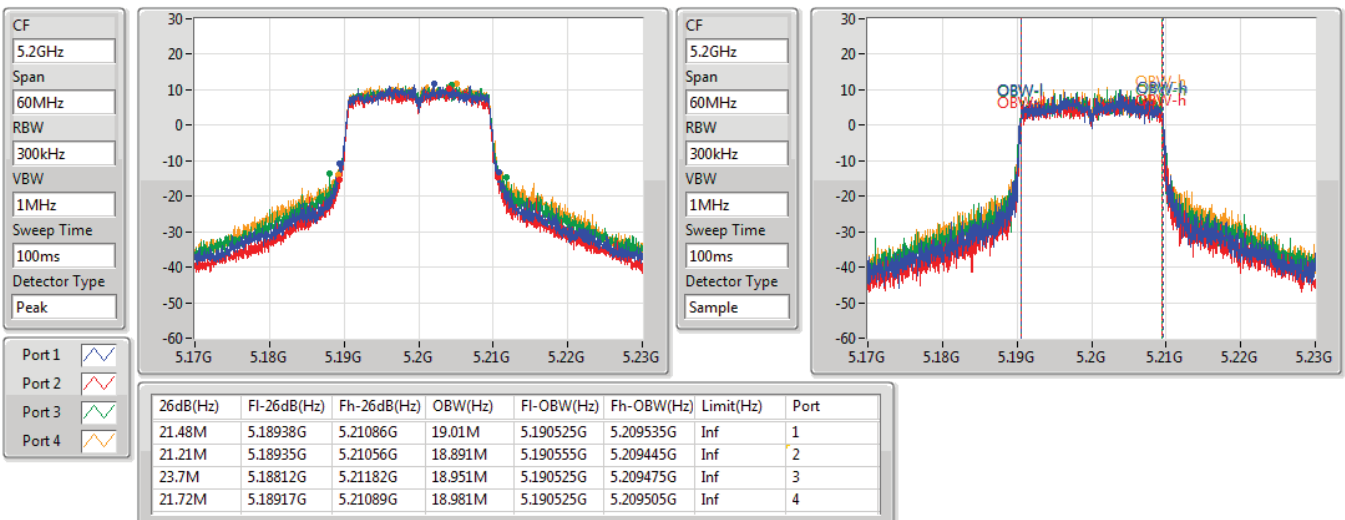


802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

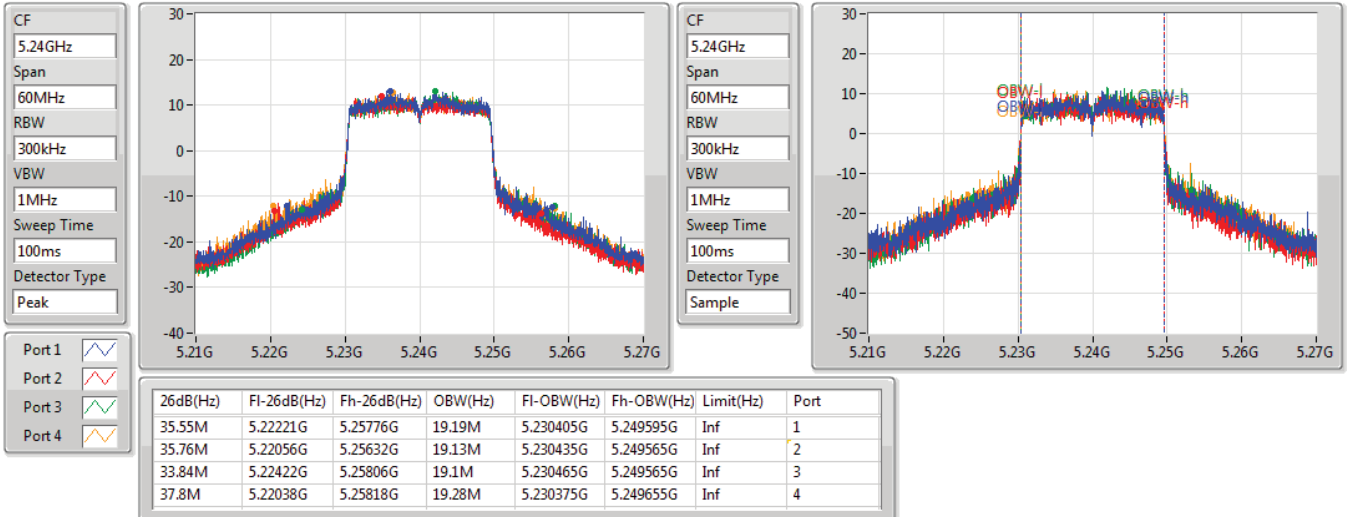
5200MHz

23/02/2021

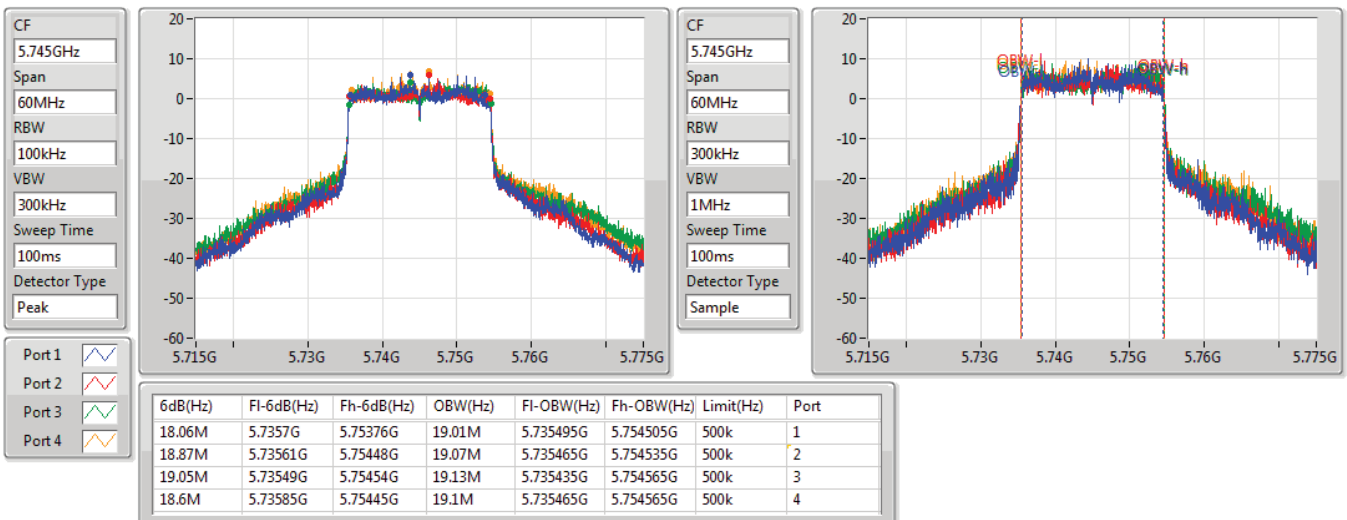


802.11ax HEW20_Nss1,(MCS0)_4TX
EBW
5240MHz

10/03/2021


802.11ax HEW20_Nss1,(MCS0)_4TX
EBW
5745MHz

23/02/2021

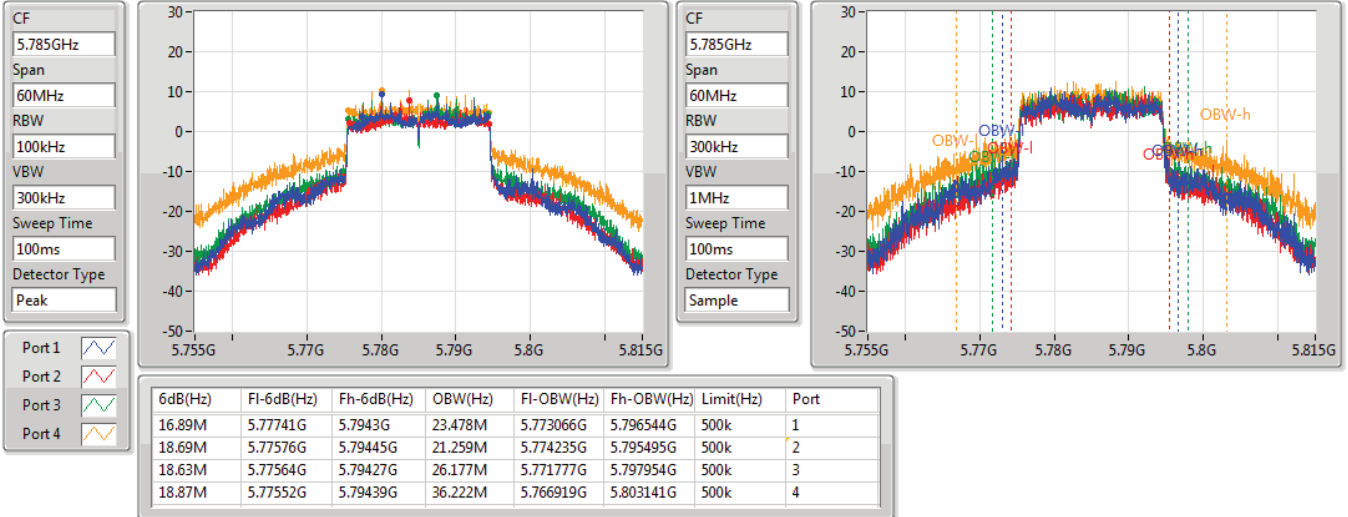


802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

5785MHz

23/02/2021

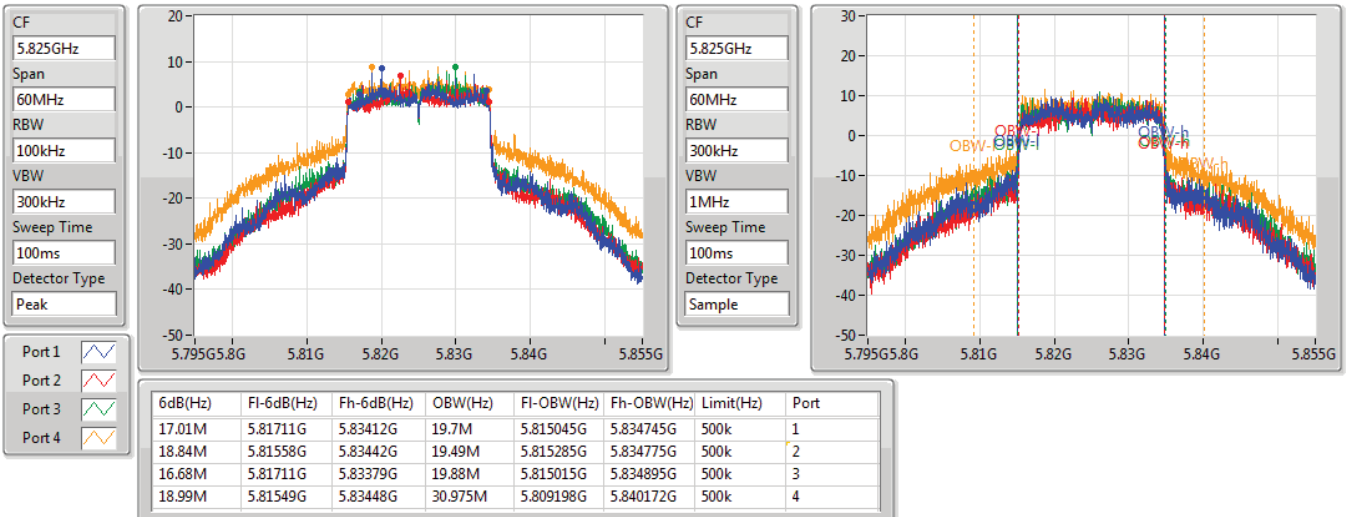


802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

5825MHz

23/02/2021

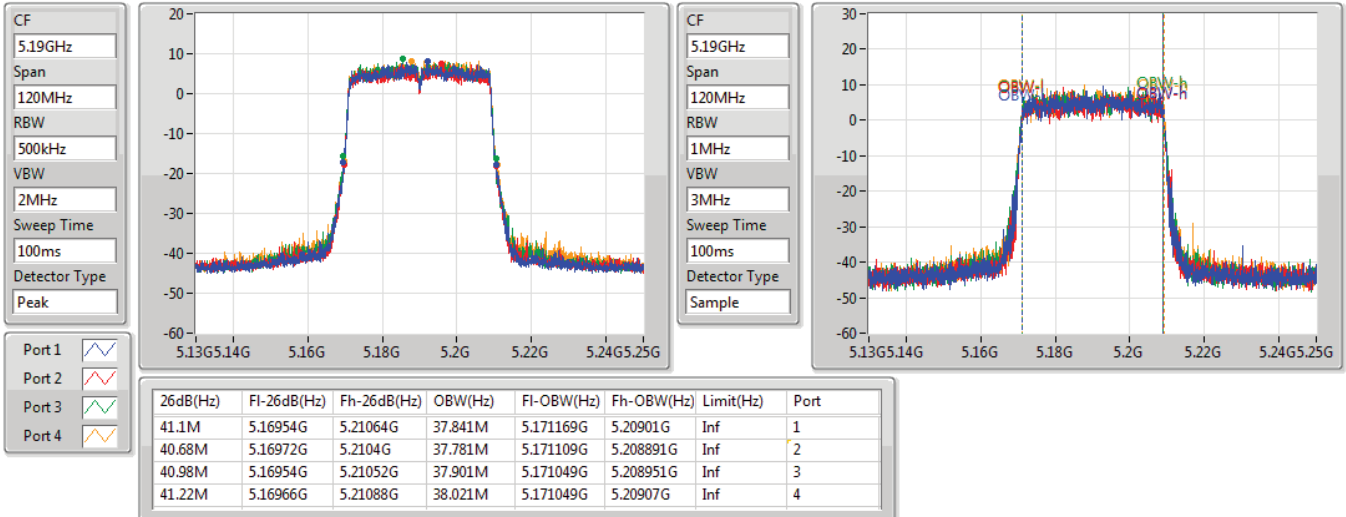


802.11ax HEW40_Nss1,(MCS0)_4TX

EBW

5190MHz

23/02/2021

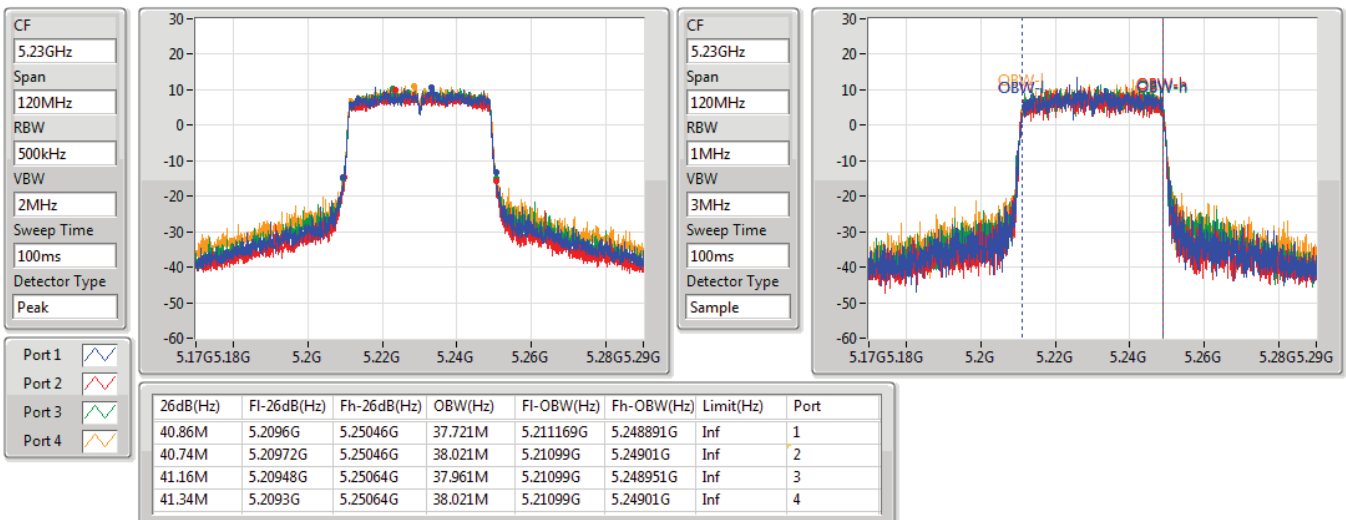


802.11ax HEW40_Nss1,(MCS0)_4TX

EBW

5230MHz

23/02/2021

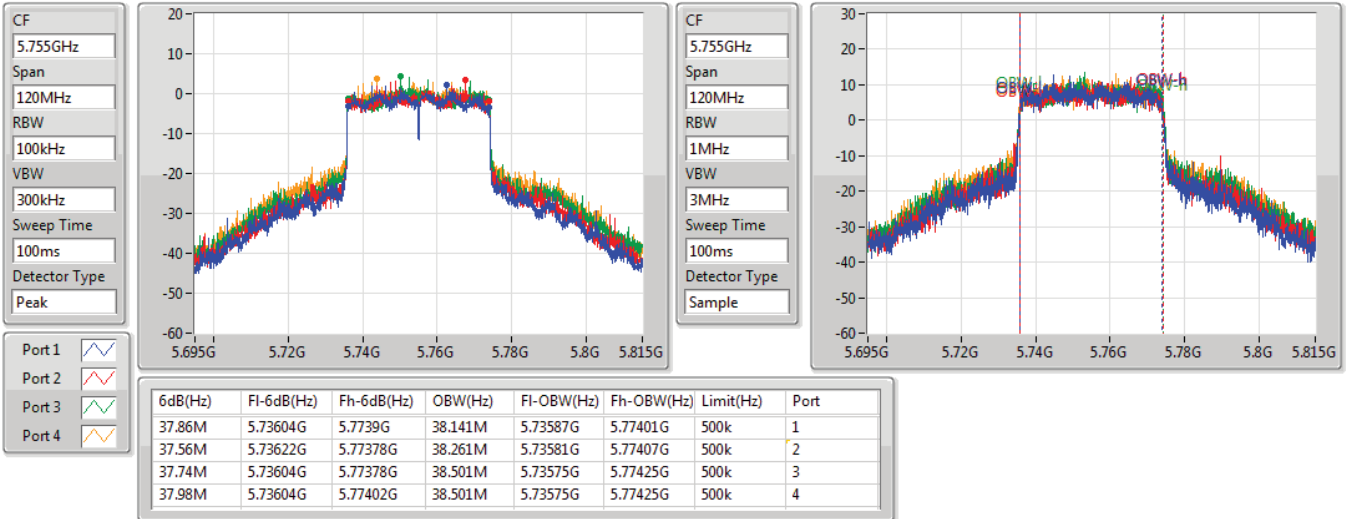


802.11ax HEW40_Nss1,(MCS0)_4TX

EBW

5755MHz

23/02/2021

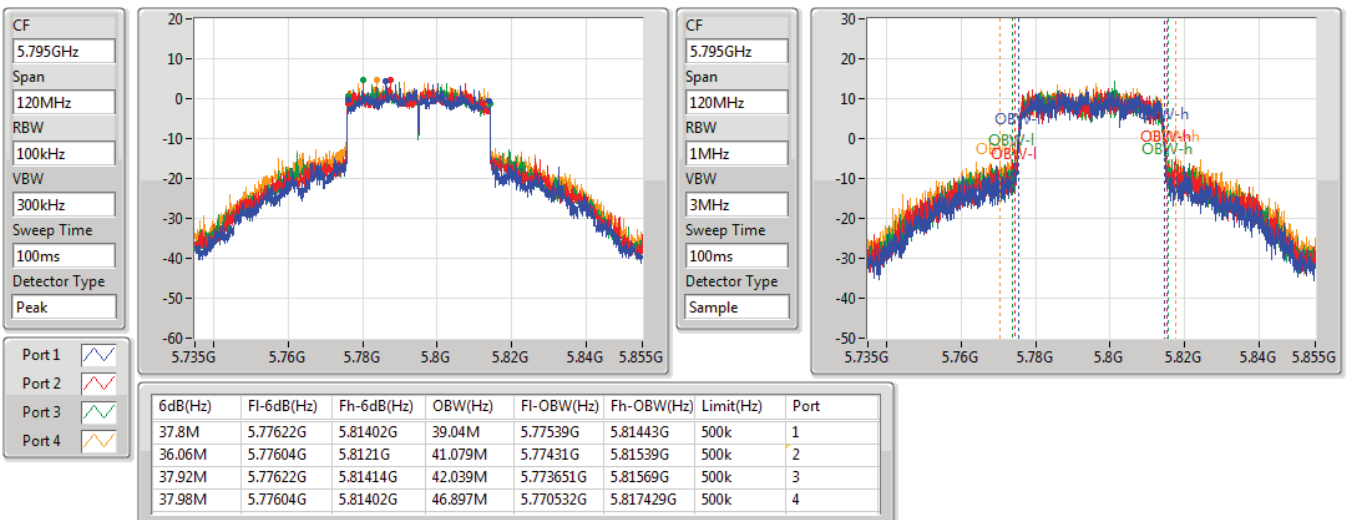


802.11ax HEW40_Nss1,(MCS0)_4TX

EBW

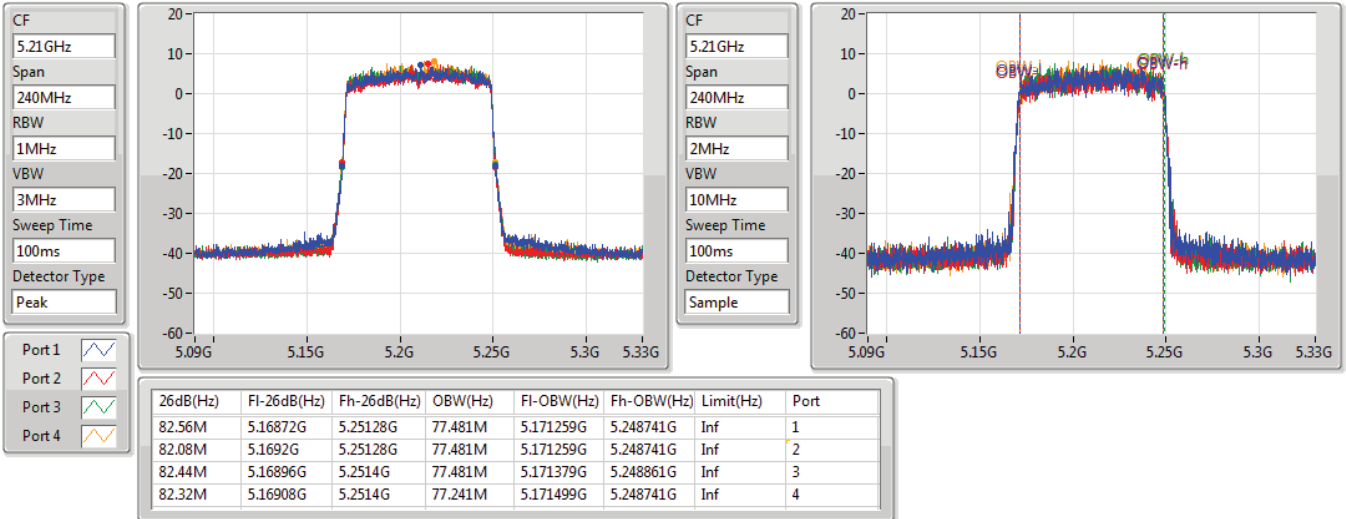
5795MHz

23/02/2021

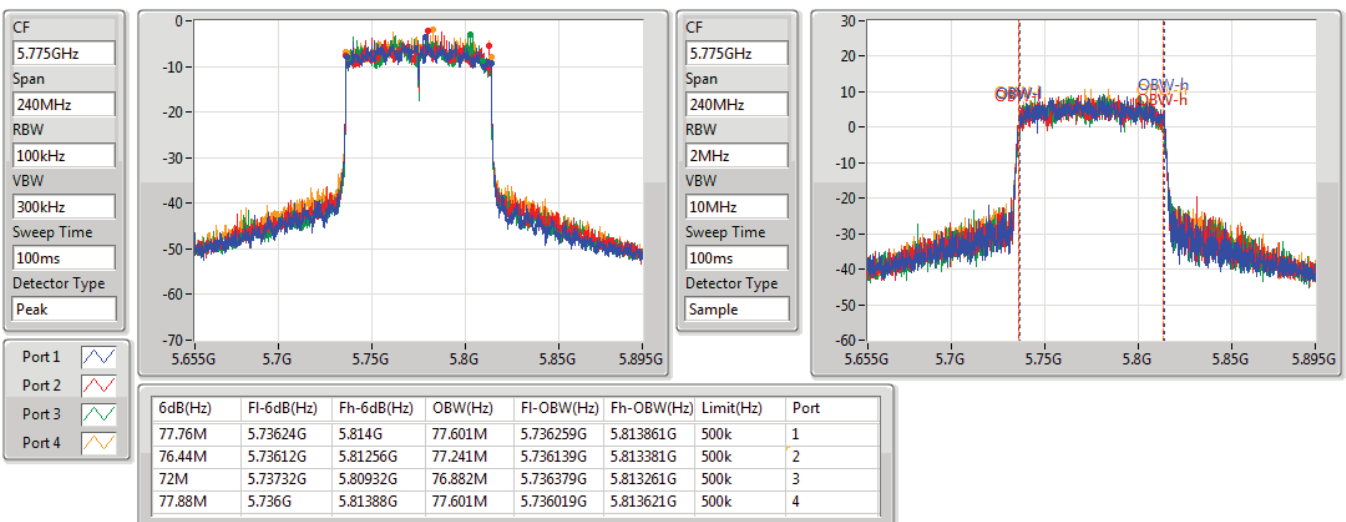


802.11ax HEW80_Nss1,(MCS0)_4TX
EBW
5210MHz

23/02/2021


802.11ax HEW80_Nss1,(MCS0)_4TX
EBW
5775MHz

23/02/2021



**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)_8TX	20.34M	16.56M	16M6D1D	19.23M	16.432M
802.11n HT20_Nss1,(MCS0)_8TX	21.03M	17.73M	17M7D1D	20.16M	17.571M
802.11n HT40_Nss1,(MCS0)_8TX	41.04M	36.462M	36M5D1D	39.9M	36.222M
802.11ac VHT20_Nss1,(MCS0)_8TX	21M	17.73M	17M7D1D	20.34M	17.58M
802.11ac VHT40_Nss1,(MCS0)_8TX	41.1M	36.402M	36M4D1D	39.9M	36.282M
802.11ac VHT80_Nss1,(MCS0)_8TX	82.08M	76.042M	76M0D1D	81.36M	75.682M
802.11ax HEW20_Nss1,(MCS0)_8TX	21.69M	19.02M	19M0D1D	20.91M	18.861M
802.11ax HEW40_Nss1,(MCS0)_8TX	41.52M	38.141M	38M1D1D	40.8M	37.841M
802.11ax HEW80_Nss1,(MCS0)_8TX	82.68M	77.721M	77M7D1D	81.72M	77.481M
5.725-5.85GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_8TX	16.32M	16.672M	16M7D1D	15.27M	16.372M
802.11n HT20_Nss1,(MCS0)_8TX	17.58M	17.751M	17M8D1D	15.66M	17.541M
802.11n HT40_Nss1,(MCS0)_8TX	36.3M	36.522M	36M5D1D	32.52M	36.102M
802.11ac VHT20_Nss1,(MCS0)_8TX	17.61M	17.811M	17M8D1D	15.87M	17.511M
802.11ac VHT40_Nss1,(MCS0)_8TX	36.36M	36.402M	36M4D1D	32.88M	36.162M
802.11ac VHT80_Nss1,(MCS0)_8TX	75.84M	75.922M	75M9D1D	68.4M	75.322M
802.11ax HEW20_Nss1,(MCS0)_8TX	19.02M	19.04M	19M0D1D	17.88M	18.831M
802.11ax HEW40_Nss1,(MCS0)_8TX	38.1M	38.141M	38M1D1D	33.54M	37.601M
802.11ax HEW80_Nss1,(MCS0)_8TX	77.16M	77.601M	77M6D1D	73.2M	77.001M

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



Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)	Port 3-N dB (Hz)	Port 3-OBW (Hz)	Port 4-N dB (Hz)	Port 4-OBW (Hz)	Port 5-N dB (Hz)	Port 5-OBW (Hz)	Port 6-N dB (Hz)	Port 6-OBW (Hz)	Port 7-N dB (Hz)	Port 7-OBW (Hz)	Port 8-N dB (Hz)	Port 8-OBW (Hz)
802.11a_Nss1,(6Mbps)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	Inf	19.41M	16.462M	19.35M	16.432M	19.44M	16.432M	19.56M	16.432M	19.35M	16.462M	19.35M	16.462M	19.59M	16.432M	19.32M	16.462M
5200MHz	Pass	Inf	19.23M	16.44M	19.83M	16.47M	20.34M	16.53M	19.56M	16.5M	19.56M	16.5M	19.83M	16.53M	19.62M	16.56M	19.68M	16.44M
5240MHz	Pass	Inf	19.35M	16.47M	19.53M	16.5M	19.92M	16.47M	19.47M	16.5M	19.35M	16.47M	20.04M	16.56M	19.38M	16.5M	19.74M	16.5M
5745MHz	Pass	500k	15.27M	16.432M	15.96M	16.492M	16.29M	16.492M	15.51M	16.432M	16.32M	16.522M	15.93M	16.492M	16.32M	16.432M	16.02M	16.582M
5785MHz	Pass	500k	16.32M	16.492M	15.72M	16.402M	16.29M	16.582M	15.63M	16.432M	15.42M	16.372M	15.66M	16.492M	16.29M	16.462M	16.02M	16.672M
5825MHz	Pass	500k	16.29M	16.492M	16.02M	16.492M	15.66M	16.372M	16.26M	16.522M	16.32M	16.492M	15.6M	16.372M	16.32M	16.462M	16.29M	16.462M
802.11n HT20_Nss1,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	Inf	20.7M	17.661M	20.16M	17.571M	20.46M	17.601M	20.64M	17.601M	20.61M	17.601M	20.91M	17.661M	20.67M	17.601M	20.43M	17.631M
5200MHz	Pass	Inf	21M	17.67M	20.7M	17.73M	20.91M	17.61M	20.49M	17.61M	20.85M	17.7M	21.03M	17.64M	21.03M	17.7M	20.73M	17.64M
5240MHz	Pass	Inf	20.85M	17.67M	20.22M	17.58M	20.58M	17.64M	20.67M	17.61M	20.25M	17.58M	20.67M	17.64M	20.55M	17.67M	21M	17.64M
5745MHz	Pass	500k	17.13M	17.631M	17.52M	17.661M	17.58M	17.721M	17.55M	17.631M	17.55M	17.751M	16.89M	17.631M	17.55M	17.661M	17.58M	17.721M
5785MHz	Pass	500k	17.58M	17.631M	17.28M	17.661M	16.02M	17.571M	17.52M	17.601M	17.58M	17.691M	16.32M	17.661M	17.55M	17.631M	17.16M	17.631M
5825MHz	Pass	500k	17.31M	17.691M	15.66M	17.601M	16.56M	17.541M	17.52M	17.721M	16.56M	17.541M	16.92M	17.601M	17.58M	17.631M	17.55M	17.691M
802.11n HT40_Nss1,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	Inf	40.02M	36.282M	40.08M	36.282M	40.5M	36.222M	40.5M	36.342M	40.56M	36.342M	40.38M	36.282M	39.9M	36.222M	40.26M	36.342M
5230MHz	Pass	Inf	40.14M	36.342M	40.44M	36.342M	40.98M	36.462M	41.04M	36.342M	40.62M	36.402M	40.2M	36.342M	40.08M	36.282M	40.92M	36.342M
5755MHz	Pass	500k	36.3M	36.342M	32.52M	36.402M	35.22M	36.102M	36.12M	36.282M	34.02M	36.162M	35.64M	36.282M	36.3M	36.162M	36.24M	36.402M
5795MHz	Pass	500k	35.28M	36.342M	34.2M	36.342M	35.94M	36.222M	34.98M	36.402M	35.4M	36.162M	35.46M	36.462M	35.04M	36.282M	35.88M	36.522M
802.11ac VHT20_Nss1,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	Inf	20.46M	17.601M	20.94M	17.631M	20.73M	17.601M	20.82M	17.631M	20.7M	17.661M	20.67M	17.661M	20.4M	17.631M	20.91M	17.601M
5200MHz	Pass	Inf	20.91M	17.7M	20.55M	17.58M	20.97M	17.67M	20.88M	17.64M	21M	17.73M	20.64M	17.67M	20.34M	17.61M	20.79M	17.64M
5240MHz	Pass	Inf	20.67M	17.7M	20.58M	17.58M	20.7M	17.64M	20.91M	17.67M	20.85M	17.67M	20.79M	17.67M	20.55M	17.67M	20.85M	17.67M
5745MHz	Pass	500k	17.13M	17.601M	17.04M	17.571M	17.58M	17.751M	17.13M	17.601M	17.16M	17.511M	16.02M	17.631M	17.55M	17.661M	16.02M	17.661M
5785MHz	Pass	500k	16.92M	17.571M	17.16M	17.661M	17.61M	17.751M	17.28M	17.691M	17.52M	17.541M	16.89M	17.631M	17.58M	17.631M	17.19M	17.601M
5825MHz	Pass	500k	17.61M	17.631M	15.87M	17.571M	17.58M	17.811M	16.92M	17.571M	16.11M	17.511M	17.19M	17.631M	17.58M	17.631M	17.28M	17.631M
802.11ac VHT40_Nss1,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	Inf	39.9M	36.342M	40.38M	36.282M	40.32M	36.282M	40.56M	36.342M	40.62M	36.342M	40.5M	36.342M	40.08M	36.402M	40.44M	36.282M
5230MHz	Pass	Inf	40.2M	36.282M	40.32M	36.282M	41.1M	36.402M	40.98M	36.342M	40.5M	36.402M	40.62M	36.282M	40.02M	36.282M	40.86M	36.402M
5755MHz	Pass	500k	35.94M	36.282M	32.88M	36.342M	35.1M	36.162M	36.36M	36.342M	35.16M	36.222M	35.64M	36.402M	35.64M	36.222M	36.36M	36.342M
5795MHz	Pass	500k	35.7M	36.402M	34.68M	36.402M	35.04M	36.222M	36.3M	36.342M	35.52M	36.162M	35.46M	36.342M	36.06M	36.282M	36.3M	36.402M
802.11ac VHT80_Nss1,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	Inf	81.36M	75.922M	81.48M	75.802M	81.6M	75.922M	82.08M	75.682M	82.08M	75.682M	81.72M	76.042M	81.6M	75.802M	81.6M	75.802M
5775MHz	Pass	500k	75.6M	75.802M	75.84M	75.802M	68.4M	75.322M	75.12M	75.682M	75M	75.442M	72.84M	75.922M	74.4M	75.562M	75.84M	75.682M
802.11ax HEW20_Nss1,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	Inf	21.03M	18.891M	21.21M	19.01M	21.21M	18.951M	21.21M	18.861M	21.06M	18.921M	21.39M	18.951M	21.12M	18.951M	21.09M	18.951M
5200MHz	Pass	Inf	21.09M	18.96M	21M	18.96M	21.24M	18.99M	21.42M	18.93M	21.36M	19.02M	21.69M	18.99M	21.36M	19.02M	21.21M	18.93M
5240MHz	Pass	Inf	21.21M	18.96M	21.06M	18.93M	21.24M	18.93M	21.3M	18.93M	20.91M	19.02M	21.3M	18.99M	21.21M	18.99M	21.39M	18.93M
5745MHz	Pass	500k	18.18M	18.861M	18.39M	18.921M	17.88M	18.831M	18.99M	19.01M	18.93M	19.04M	18.72M	18.951M	18.81M	18.981M	18.87M	18.921M
5785MHz	Pass	500k	18.12M	18.891M	18.87M	18.951M	17.91M	18.861M	18.51M	18.831M	18.27M	18.831M	18.51M	18.951M	18.9M	18.921M	18.27M	18.891M
5825MHz	Pass	500k	18.51M	18.951M	18.57M	18.951M	18.57M	19.04M	19.02M	19.01M	18.99M	18.981M	18.84M	19.01M	18.87M	18.921M	18.39M	18.981M
802.11ax HEW40_Nss1,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	Inf	40.86M	37.841M	40.8M	37.961M	41.34M	37.901M	41.16M	37.961M	40.8M	37.901M	40.92M	38.141M	40.98M	37.841M	40.92M	37.901M
5230MHz	Pass	Inf	40.86M	38.021M	40.86M	37.961M	40.8M	37.901M	41.52M	37.961M	41.28M	37.961M	40.98M	37.961M	40.98M	37.841M	41.04M	37.961M
5755MHz	Pass	500k	37.5M	37.961M	38.1M	38.021M	33.54M	37.601M	36.72M	37.901M	36.48M	37.661M	37.92M	37.841M	37.92M	37.841M	37.92M	38.081M
5795MHz	Pass	500k	37.68M	37.961M	37.92M	38.081M	37.26M	37.961M	37.44M	37.781M	36.96M	37.781M	37.5M	38.021M	37.74M	37.961M	37.74M	38.141M
802.11ax HEW80_Nss1,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	Inf	82.56M	77.481M	81.72M	77.601M	81.96M	77.481M	82.08M	77.481M	82.68M	77.721M	82.68M	77.721M	81.72M	77.601M	82.32M	77.601M

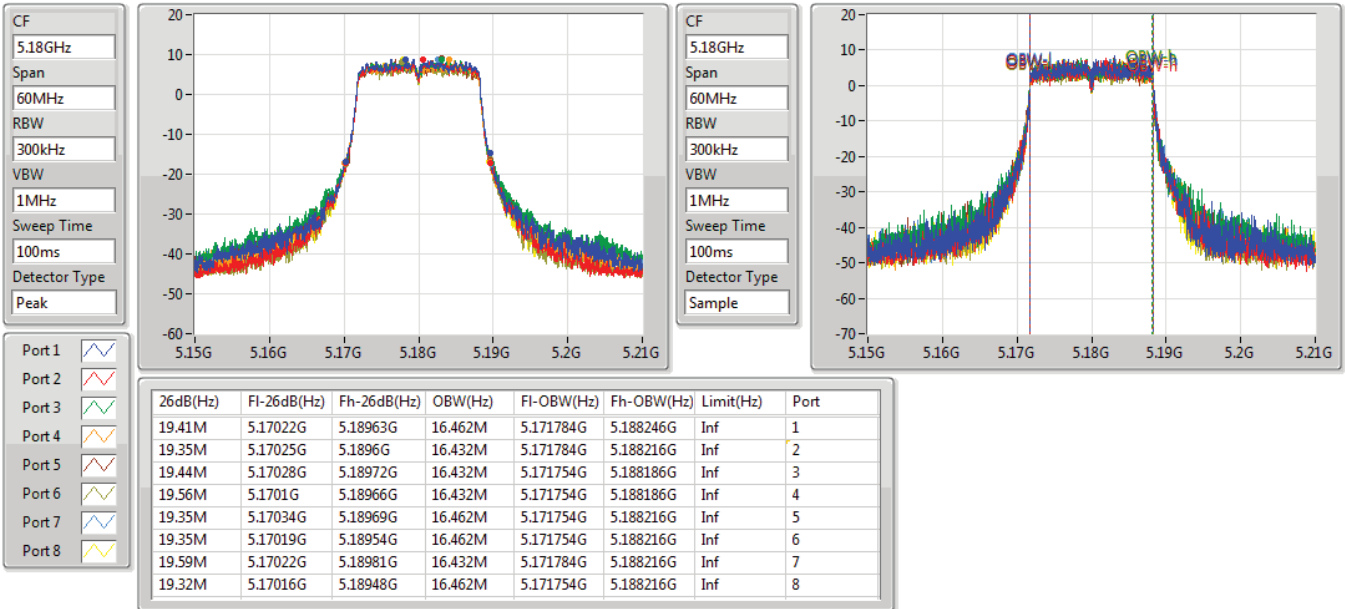


Mode	Result	Limit	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)	Port 3-N dB (Hz)	Port 3-OBW (Hz)	Port 4-N dB (Hz)	Port 4-OBW (Hz)	Port 5-N dB (Hz)	Port 5-OBW (Hz)	Port 6-N dB (Hz)	Port 6-OBW (Hz)	Port 7-N dB (Hz)	Port 7-OBW (Hz)	Port 8-N dB (Hz)	Port 8-OBW (Hz)
5775MHz	Pass	500k	76.68M	77.361M	75.72M	77.481M	73.44M	77.001M	76.44M	77.601M	73.2M	77.241M	77.16M	77.481M	76.92M	77.481M	76.92M	77.481M

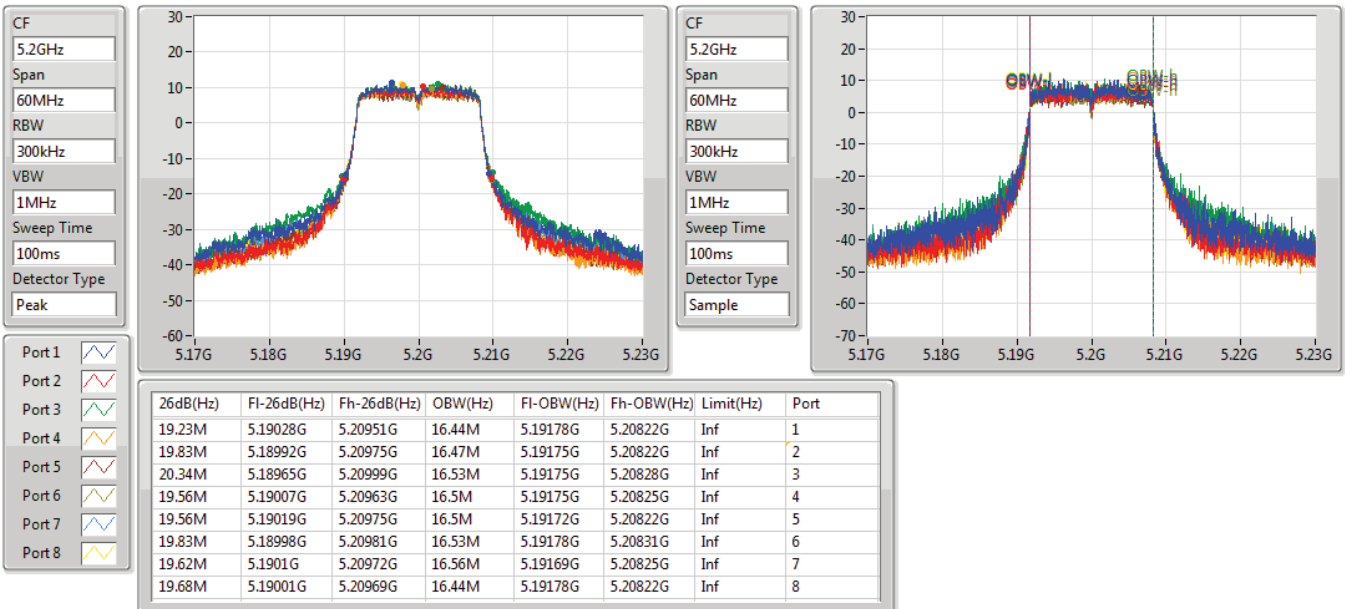
Port X-N dB = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band
Port X-OBW = Port X 99% occupied bandwidth

802.11a_Nss1,(6Mbps)_8TX
EBW
5180MHz

09/03/2021

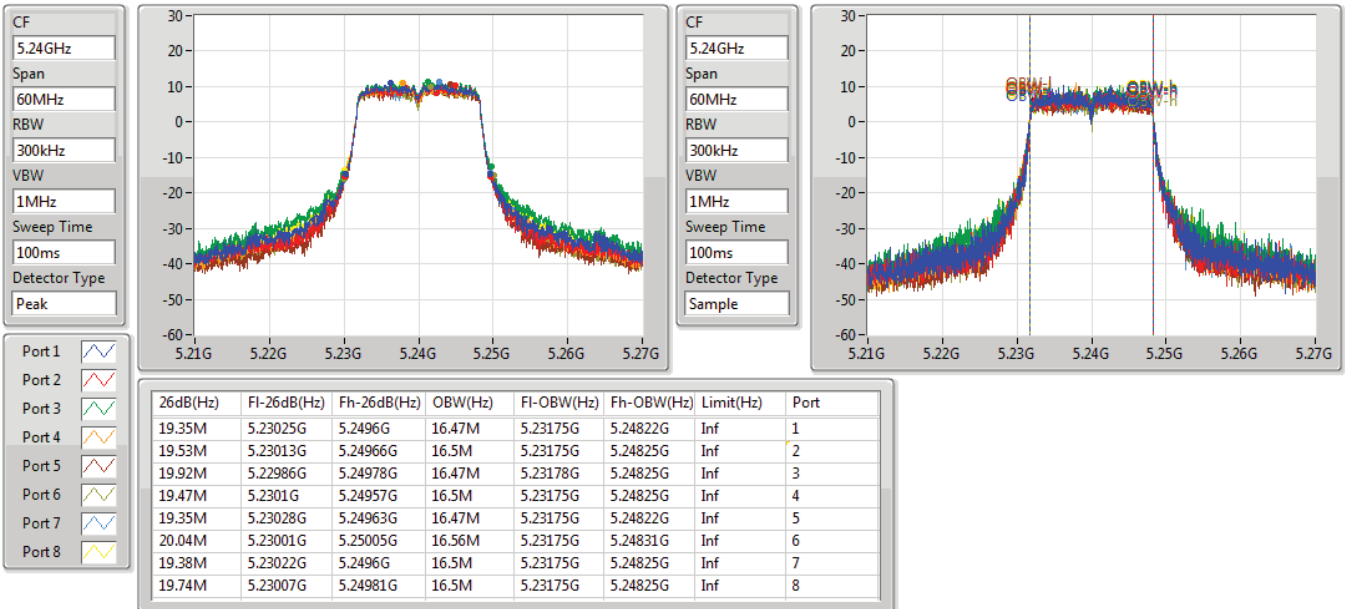

802.11a_Nss1,(6Mbps)_8TX
EBW
5200MHz

14/04/2021

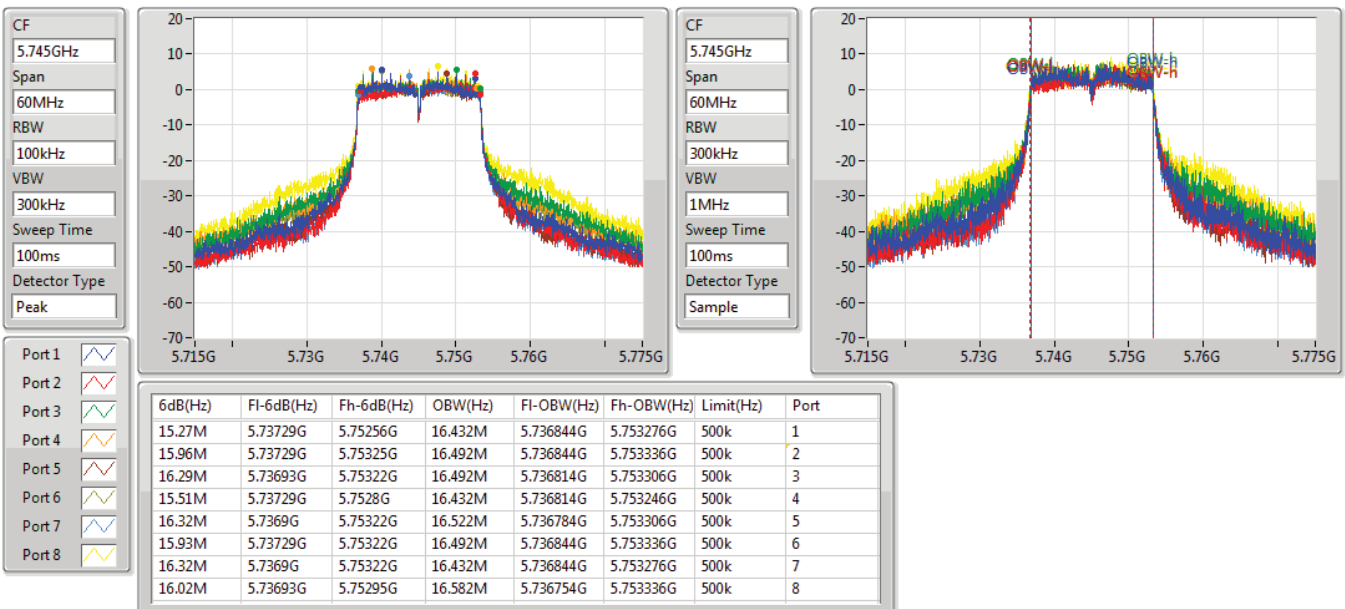


802.11a_Nss1,(6Mbps)_8TX
EBW
5240MHz

14/04/2021


802.11a_Nss1,(6Mbps)_8TX
EBW
5745MHz

25/02/2021

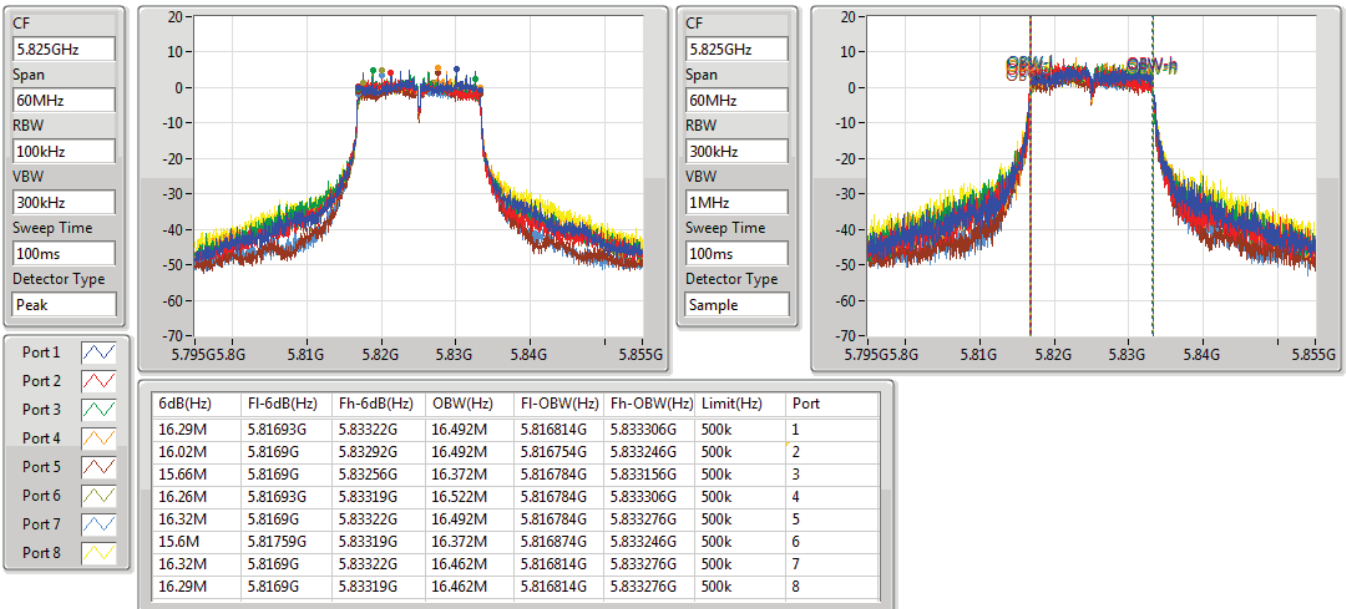


802.11a_Nss1,(6Mbps)_8TX
EBW
5785MHz

25/02/2021

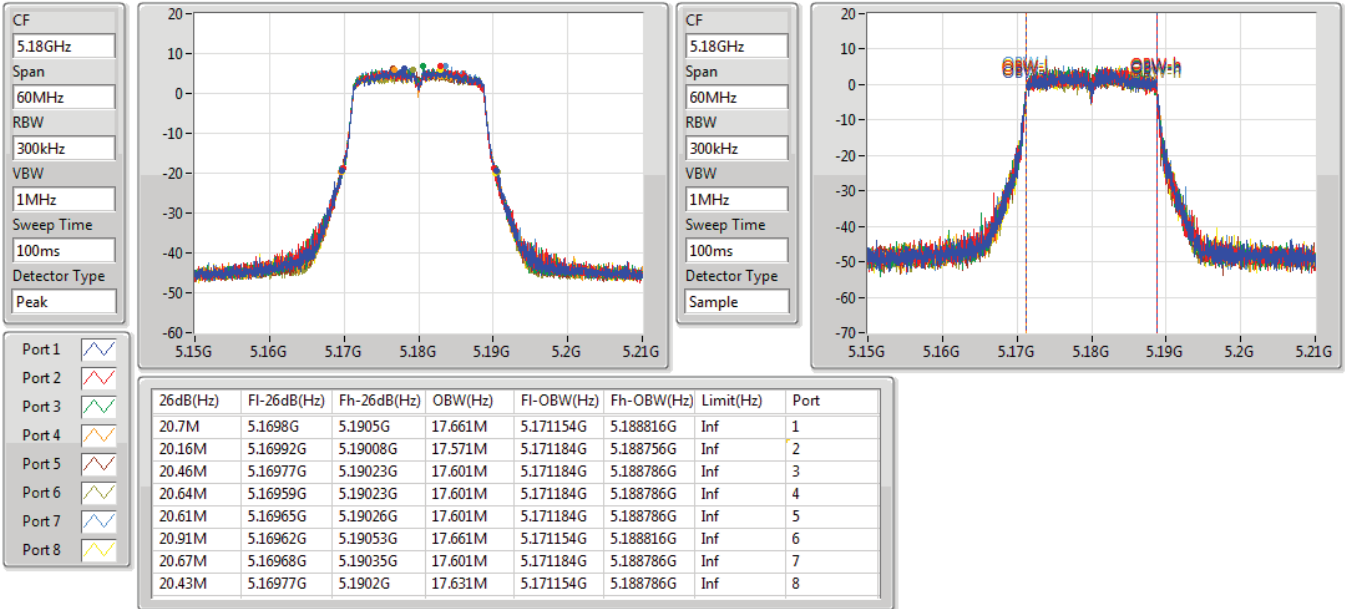

802.11a_Nss1,(6Mbps)_8TX
EBW
5825MHz

25/02/2021

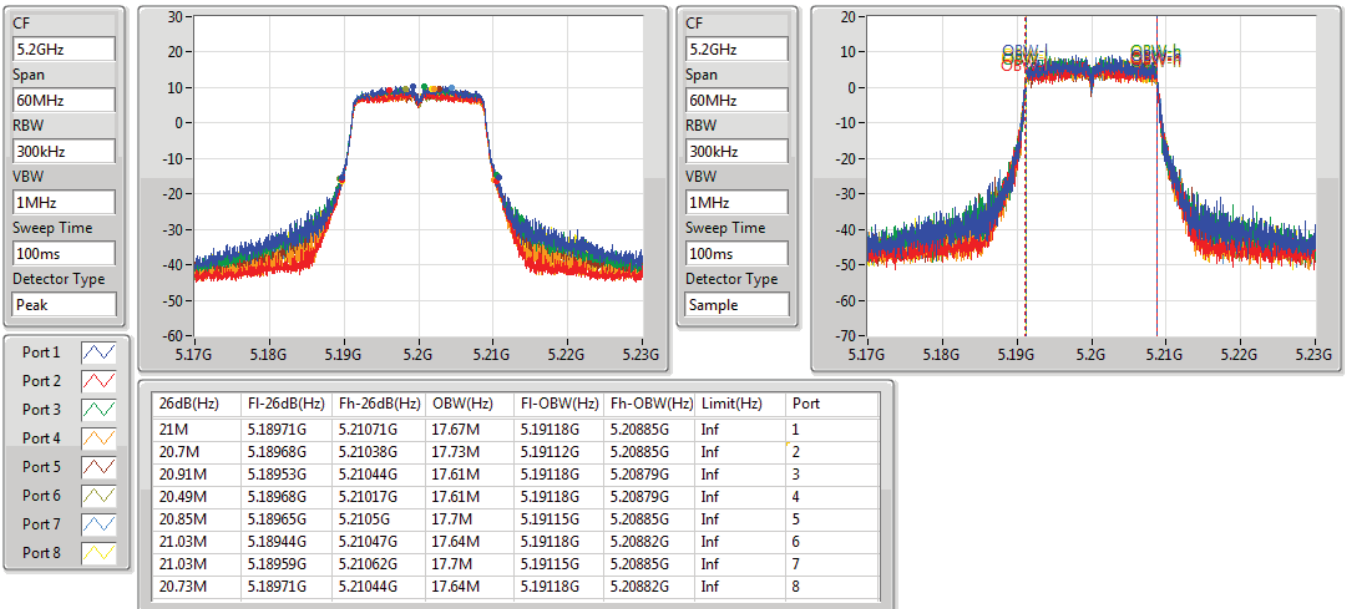


802.11n HT20_Nss1,(MCS0)_8TX
EBW
5180MHz

09/03/2021

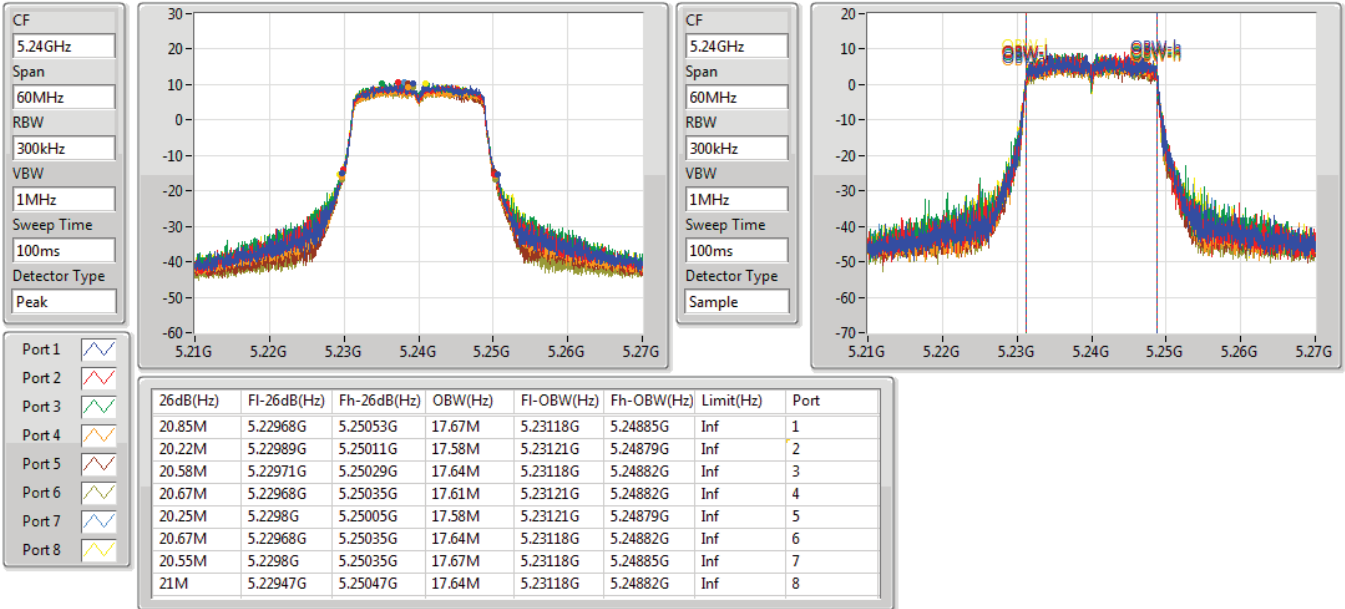

802.11n HT20_Nss1,(MCS0)_8TX
EBW
5200MHz

14/04/2021

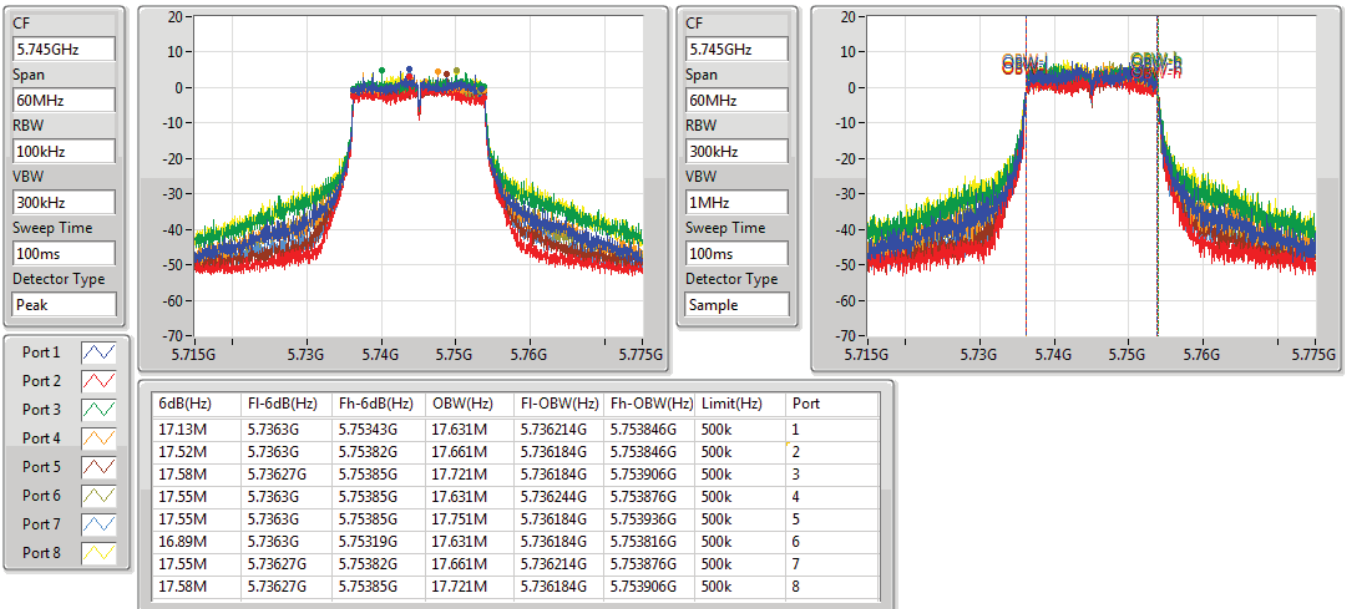


802.11n HT20_Nss1,(MCS0)_8TX
EBW
5240MHz

14/04/2021


802.11n HT20_Nss1,(MCS0)_8TX
EBW
5745MHz

25/02/2021

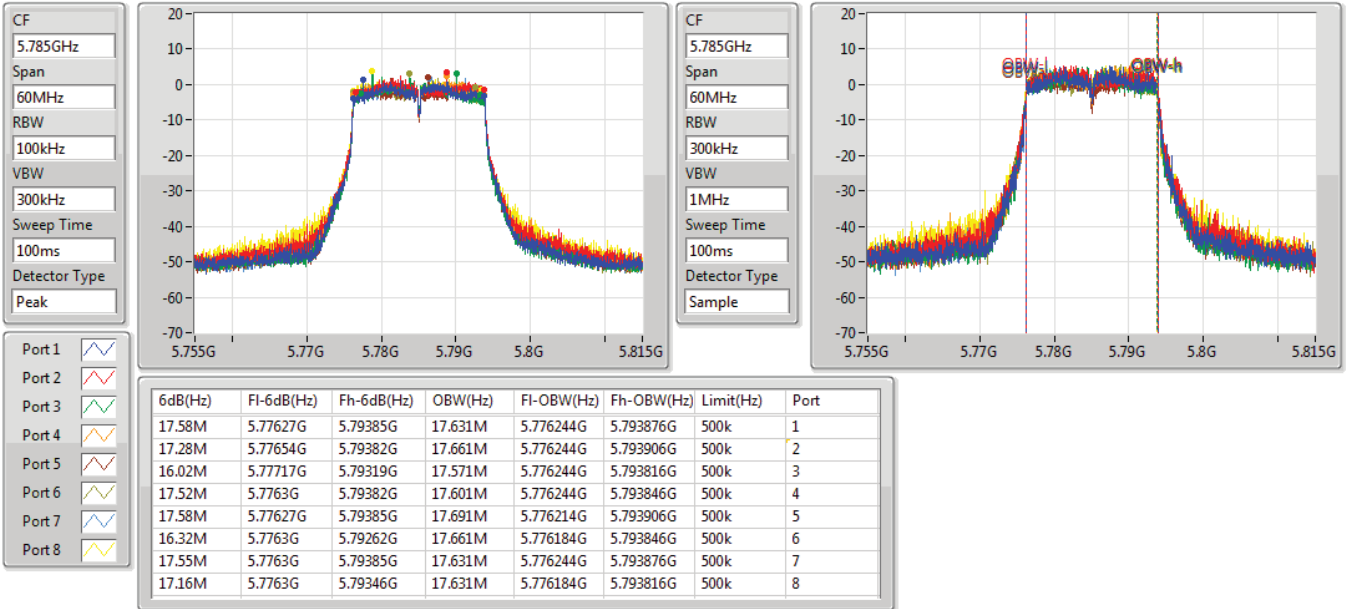


802.11n HT20_Nss1,(MCS0)_8TX

EBW

5785MHz

25/02/2021

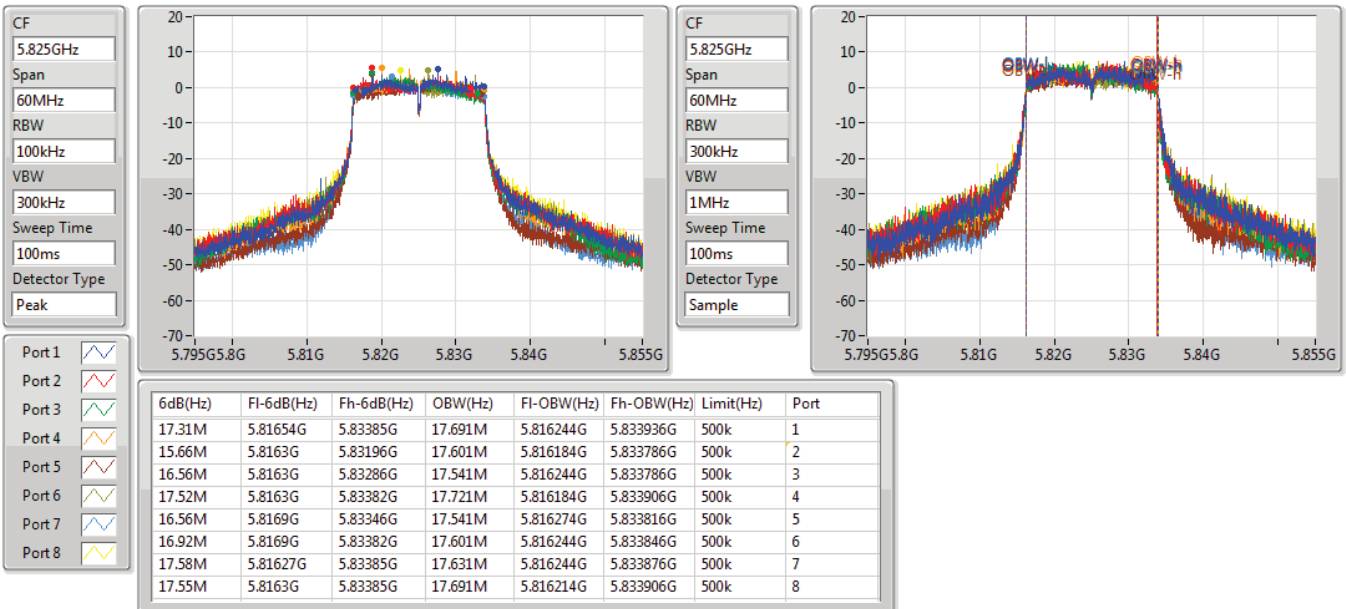


802.11n HT20_Nss1,(MCS0)_8TX

EBW

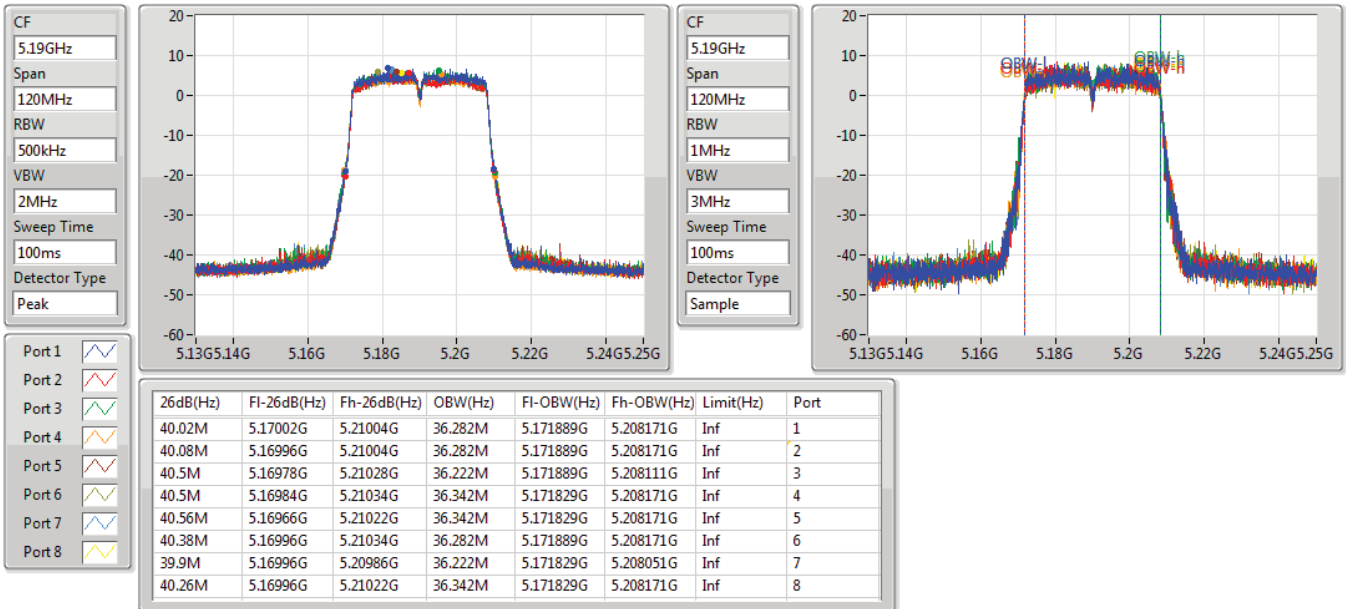
5825MHz

25/02/2021

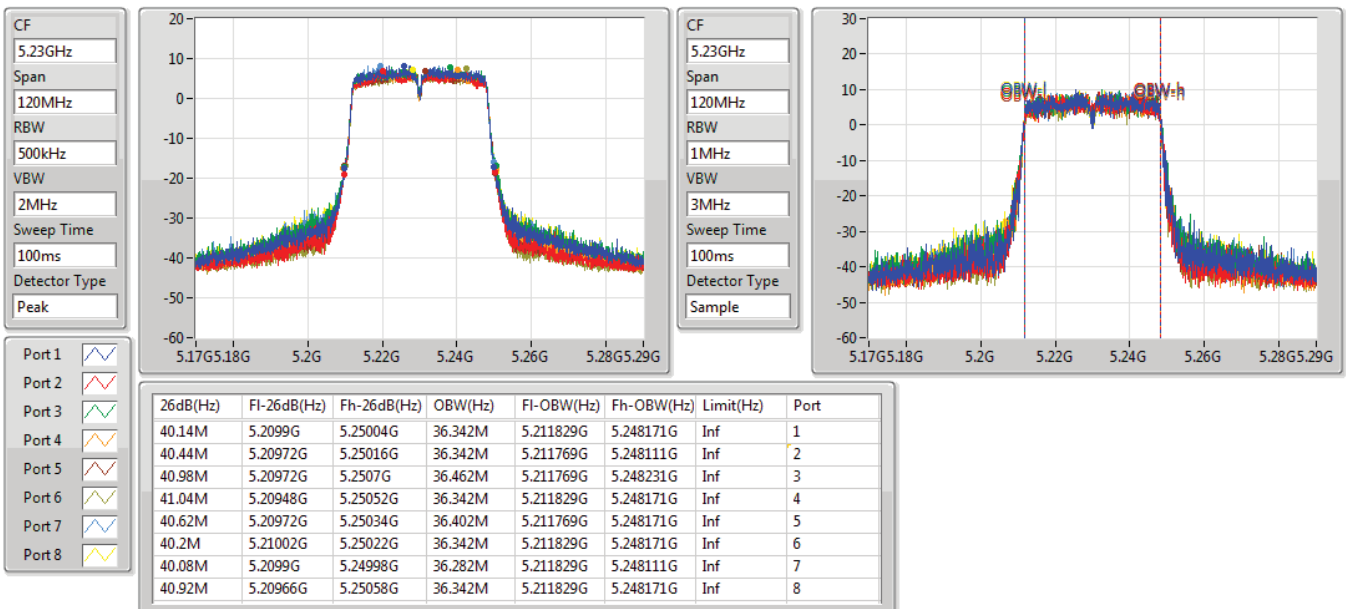


802.11n HT40_Nss1,(MCS0)_8TX
EBW
5190MHz

25/02/2021

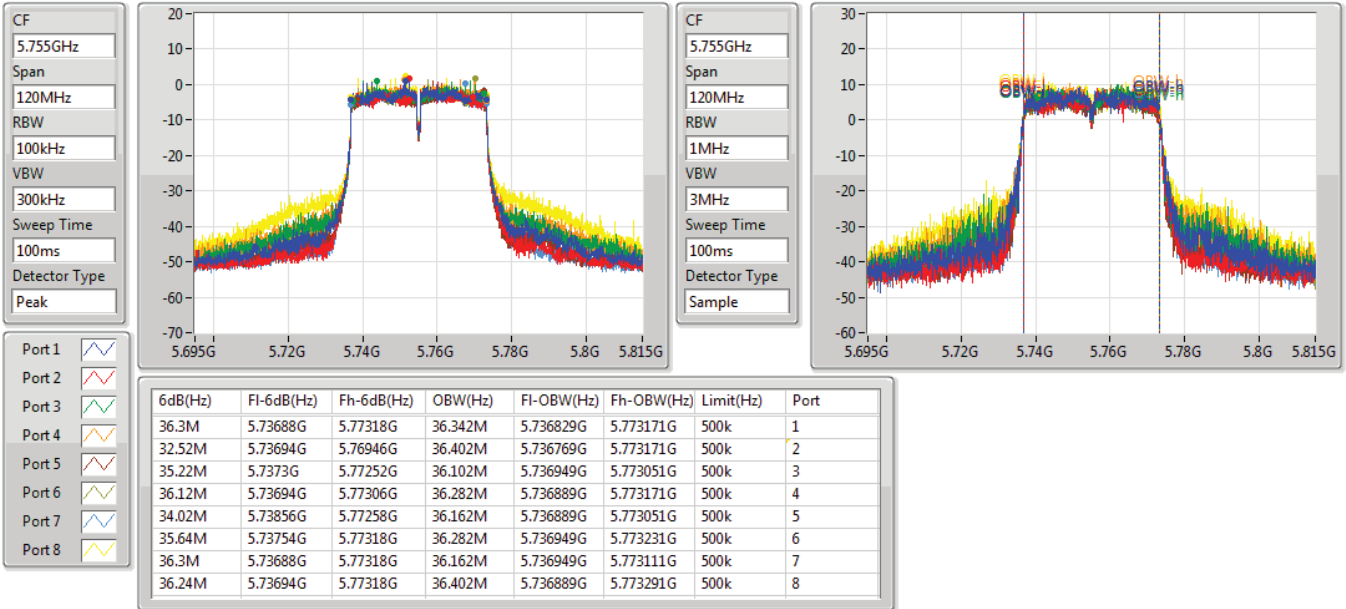

802.11n HT40_Nss1,(MCS0)_8TX
EBW
5230MHz

09/03/2021



802.11n HT40_Nss1,(MCS0)_8TX
EBW
5755MHz

25/02/2021

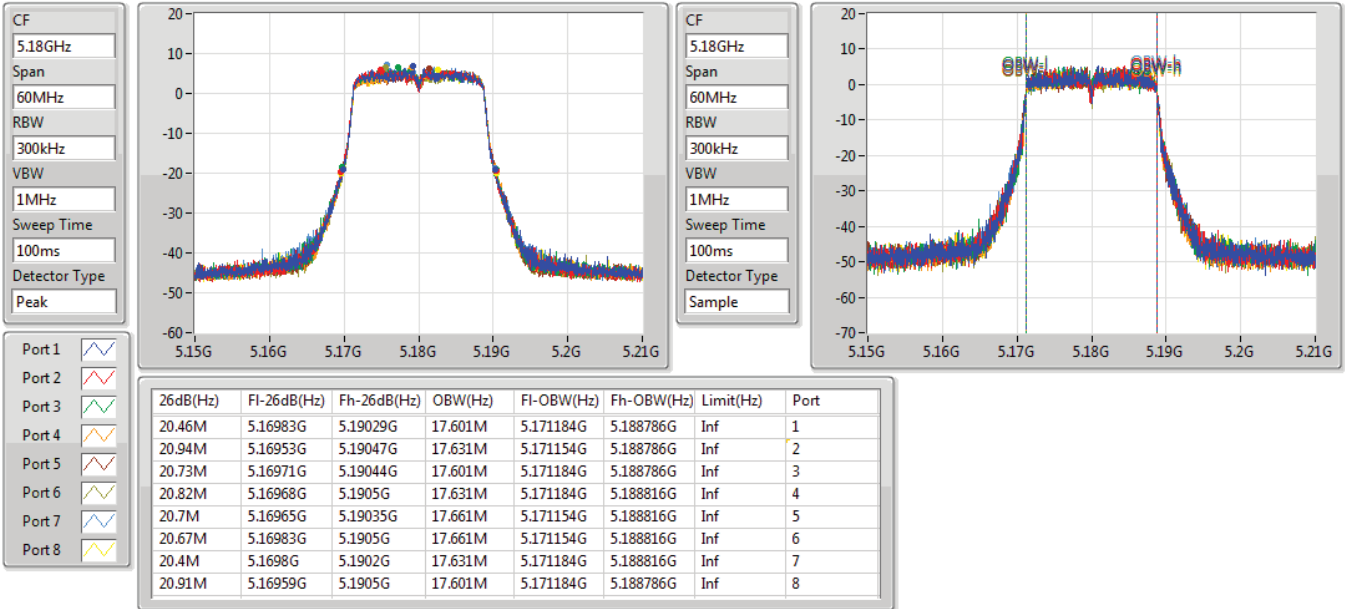

802.11n HT40_Nss1,(MCS0)_8TX
EBW
5795MHz

25/02/2021

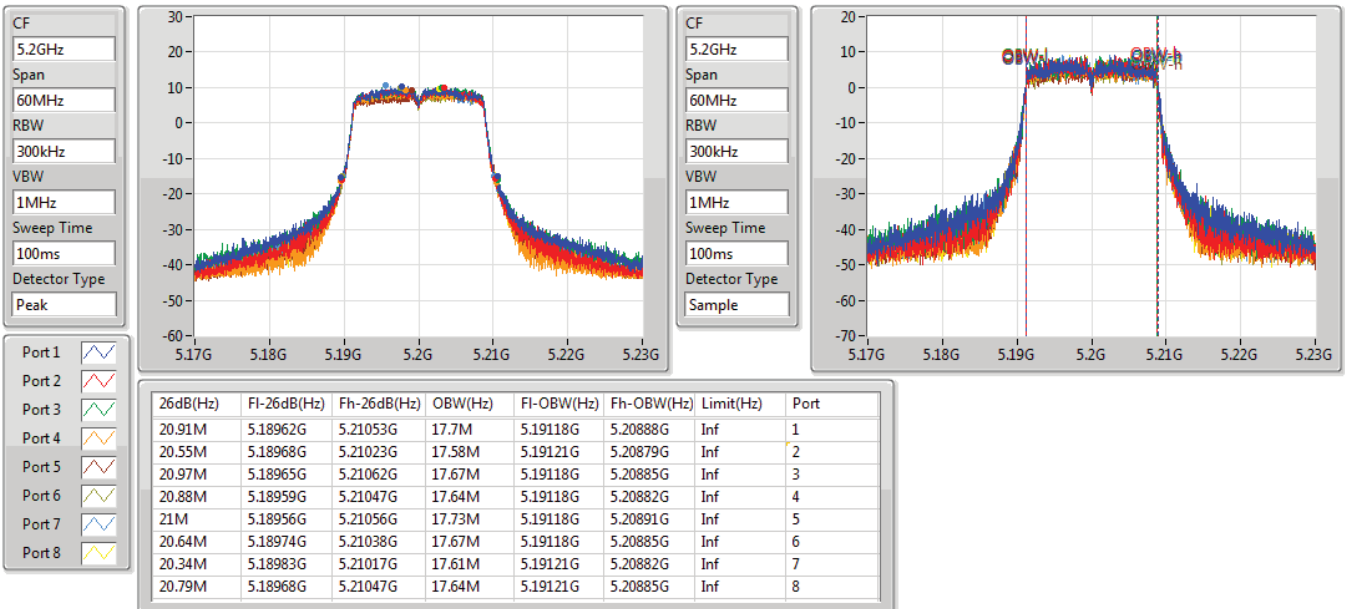


802.11ac VHT20_Nss1,(MCS0)_8TX
EBW
5180MHz

09/03/2021

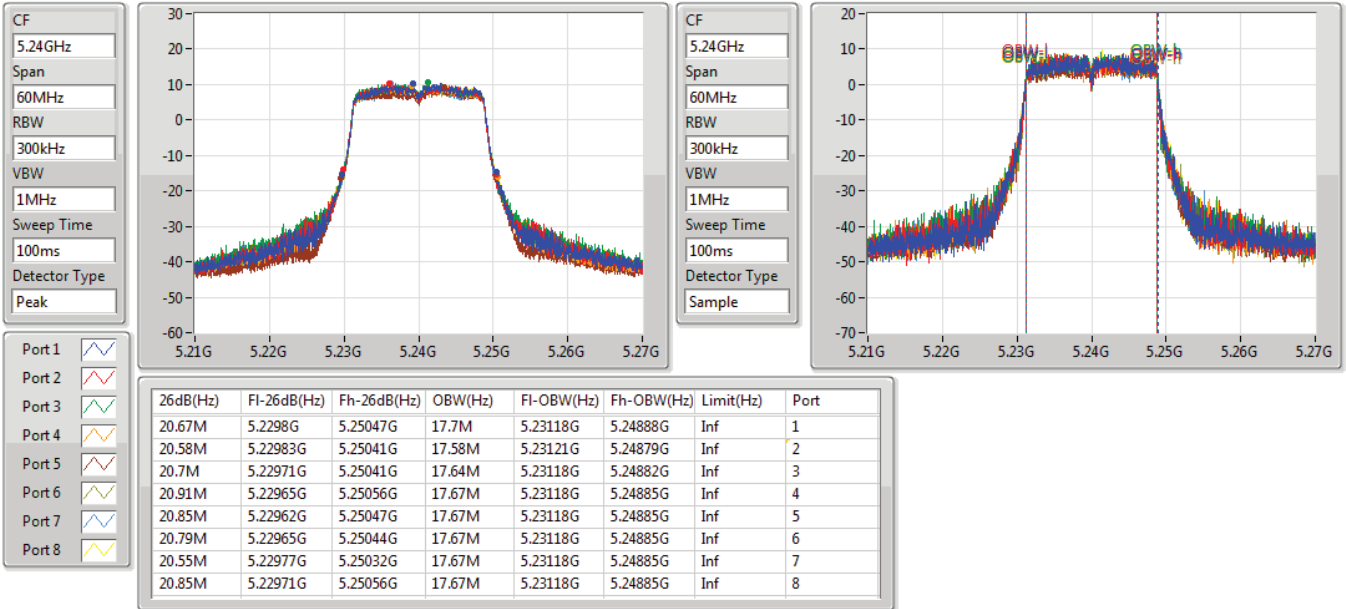

802.11ac VHT20_Nss1,(MCS0)_8TX
EBW
5200MHz

14/04/2021



802.11ac VHT20_Nss1,(MCS0)_8TX
EBW
5240MHz

14/04/2021

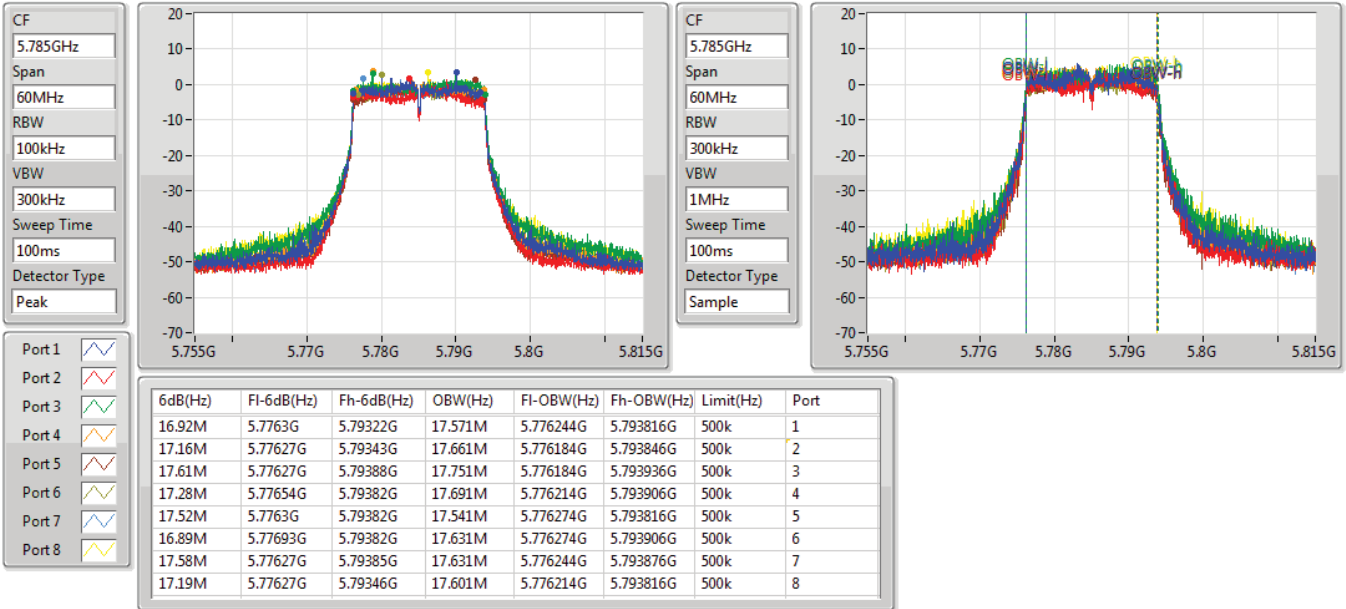

802.11ac VHT20_Nss1,(MCS0)_8TX
EBW
5745MHz

25/02/2021

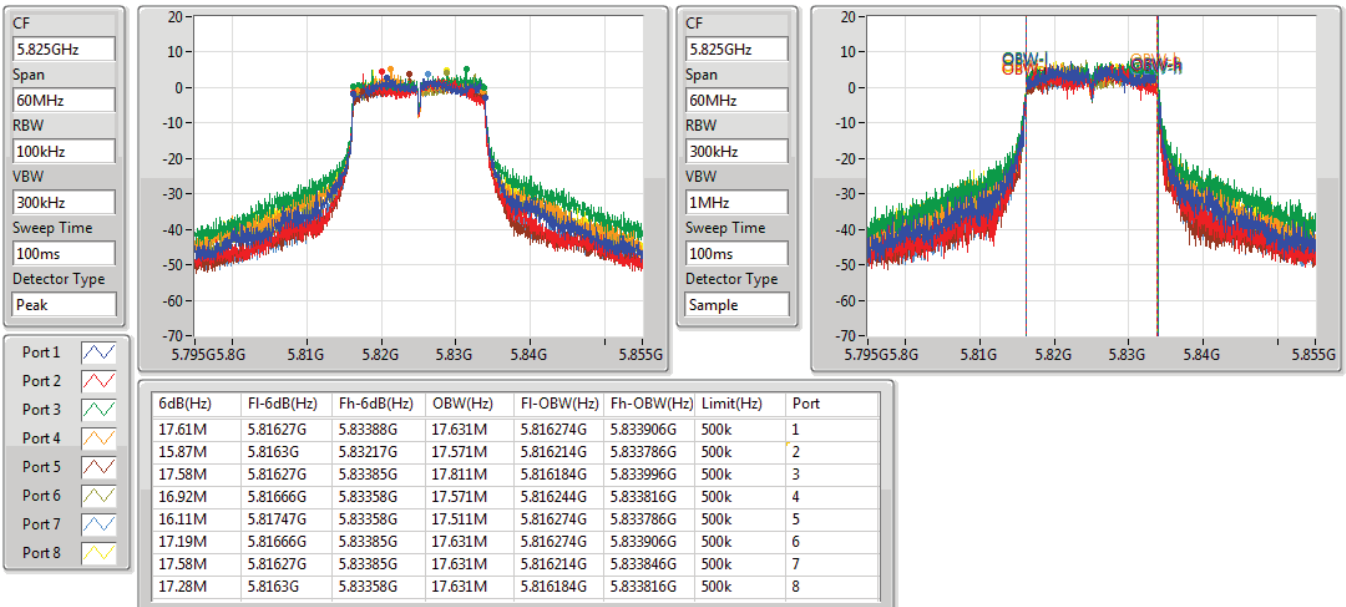


802.11ac VHT20_Nss1,(MCS0)_8TX
EBW
5785MHz

25/02/2021

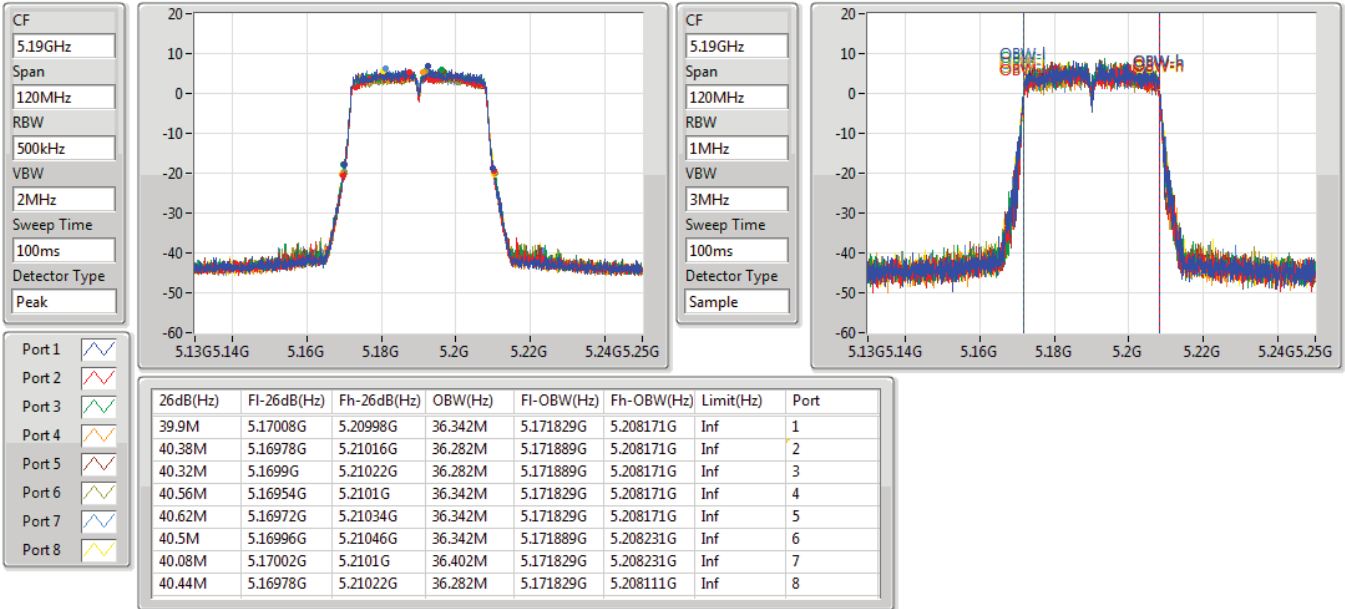

802.11ac VHT20_Nss1,(MCS0)_8TX
EBW
5825MHz

25/02/2021

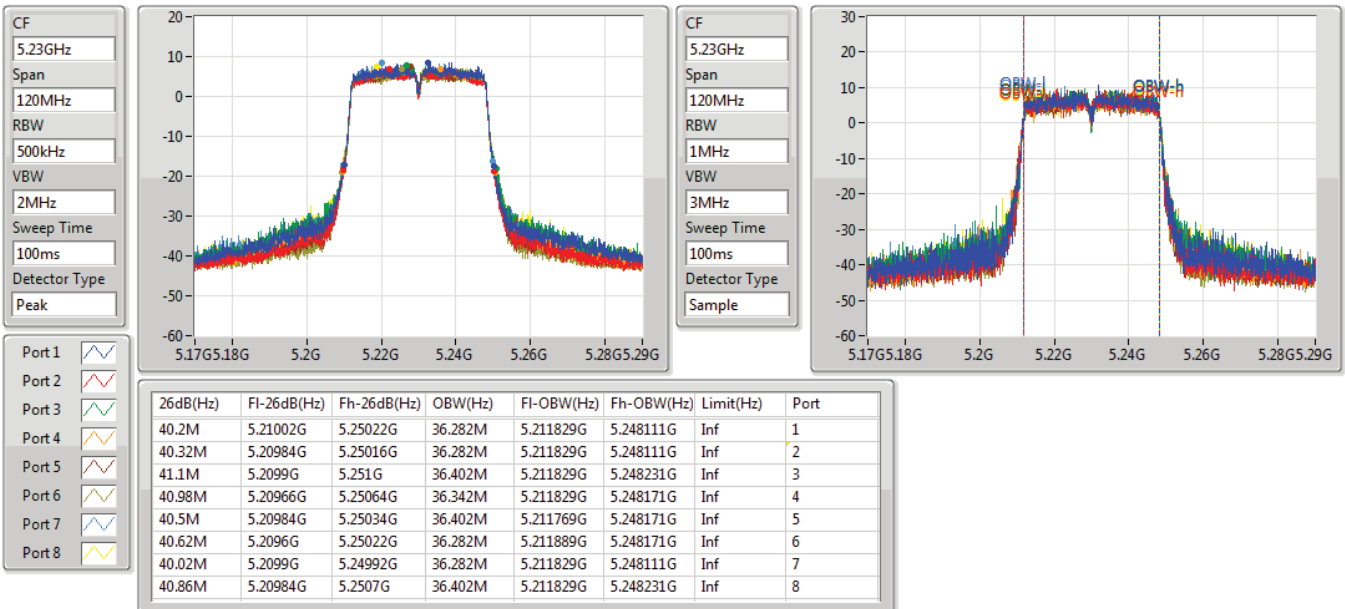


802.11ac VHT40_Nss1,(MCS0)_8TX
EBW
5190MHz

25/02/2021

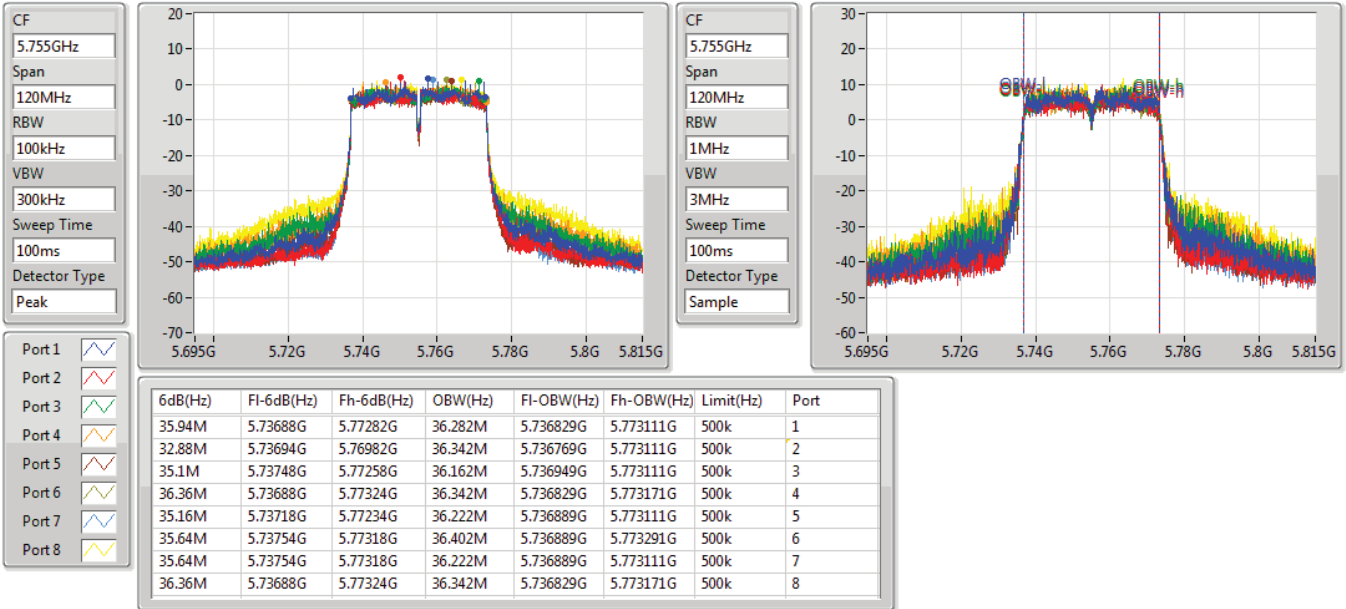

802.11ac VHT40_Nss1,(MCS0)_8TX
EBW
5230MHz

09/03/2021

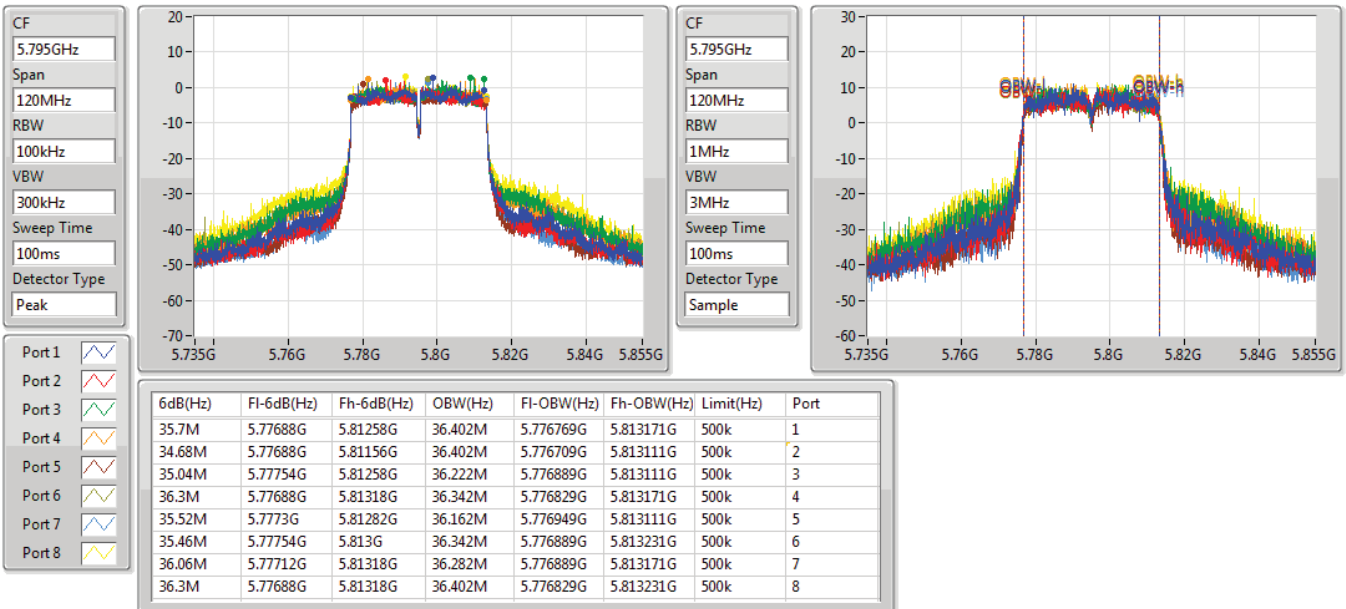


802.11ac VHT40_Nss1,(MCS0)_8TX
EBW
5755MHz

25/02/2021

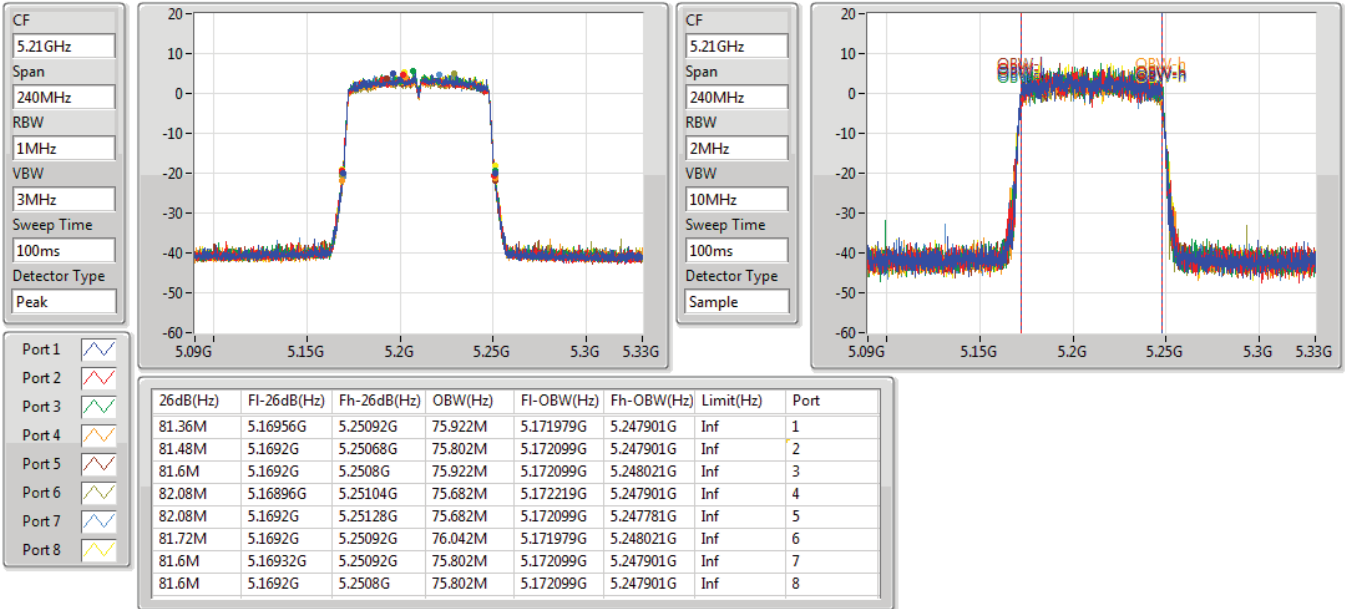

802.11ac VHT40_Nss1,(MCS0)_8TX
EBW
5795MHz

25/02/2021



802.11ac VHT80_Nss1,(MCS0)_8TX
EBW
5210MHz

25/02/2021

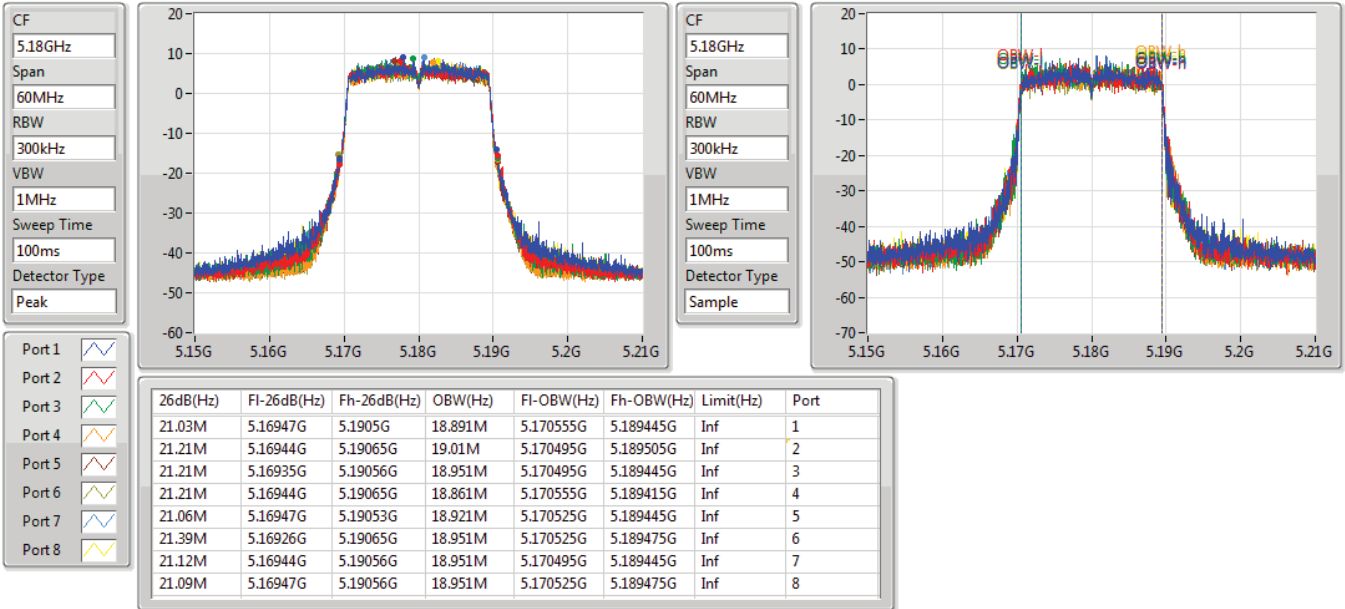

802.11ac VHT80_Nss1,(MCS0)_8TX
EBW
5775MHz

25/02/2021

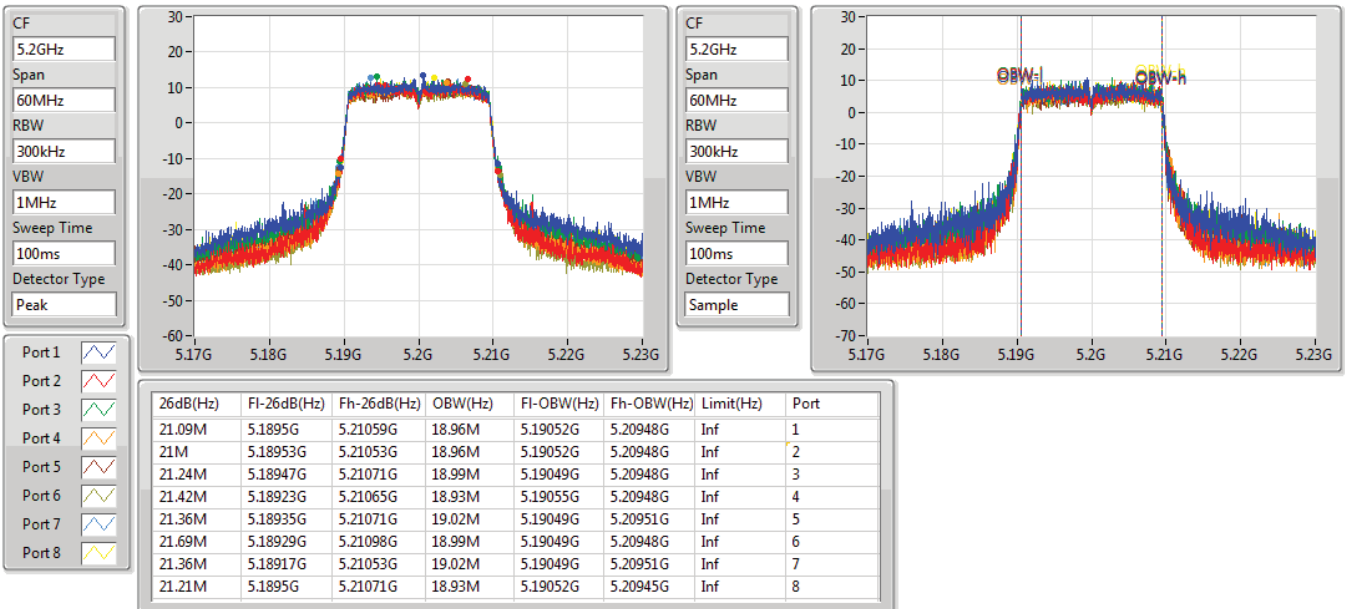


802.11ax HEW20_Nss1,(MCS0)_8TX
EBW
5180MHz

09/03/2021


802.11ax HEW20_Nss1,(MCS0)_8TX
EBW
5200MHz

14/04/2021

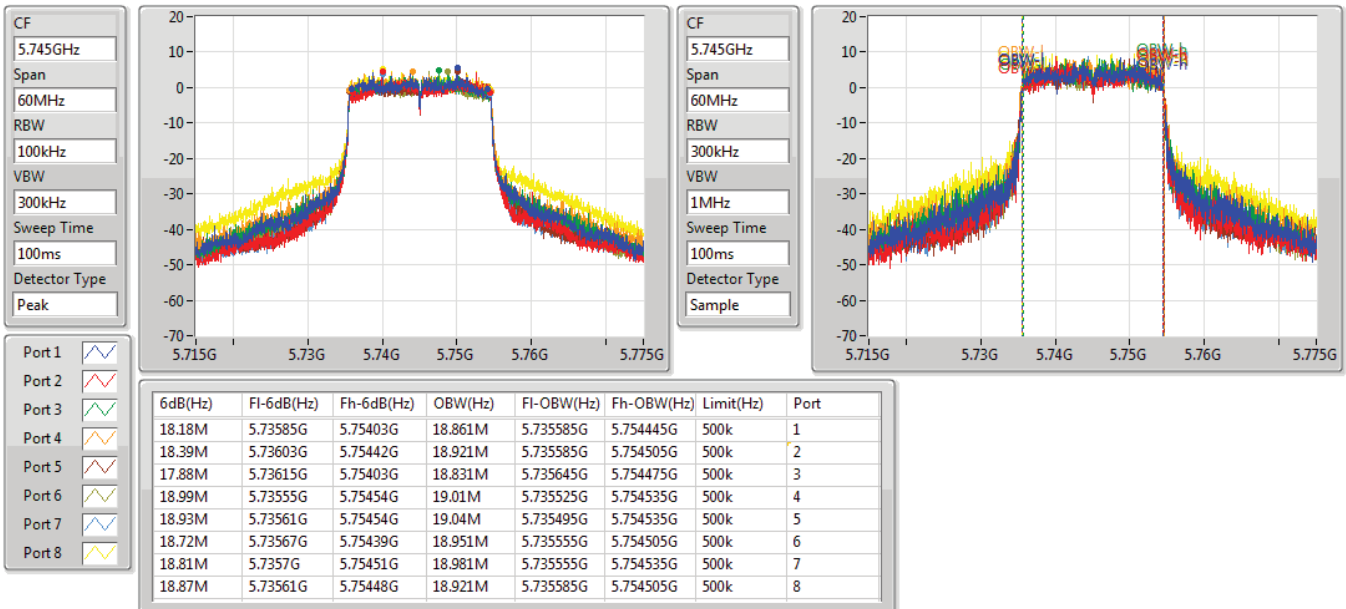


802.11ax HEW20_Nss1,(MCS0)_8TX
EBW
5240MHz

14/04/2021


802.11ax HEW20_Nss1,(MCS0)_8TX
EBW
5745MHz

25/02/2021

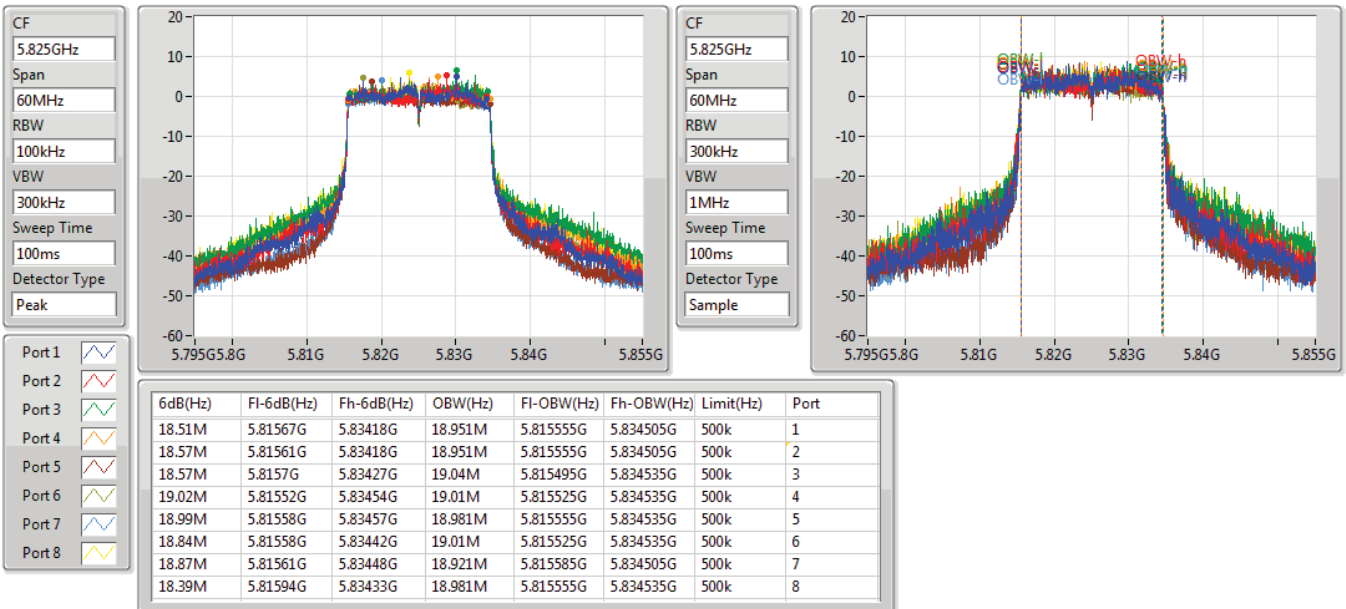


802.11ax HEW20_Nss1,(MCS0)_8TX
EBW
5785MHz

25/02/2021


802.11ax HEW20_Nss1,(MCS0)_8TX
EBW
5825MHz

25/02/2021

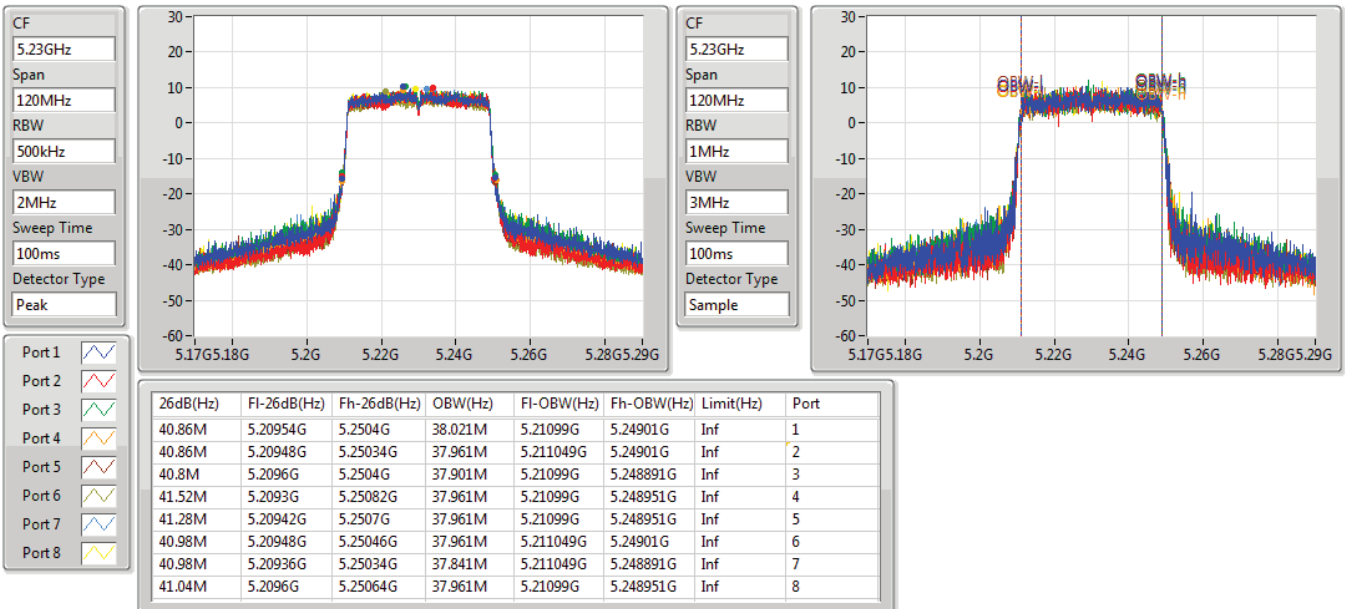


802.11ax HEW40_Nss1,(MCS0)_8TX
EBW
5190MHz

25/02/2021

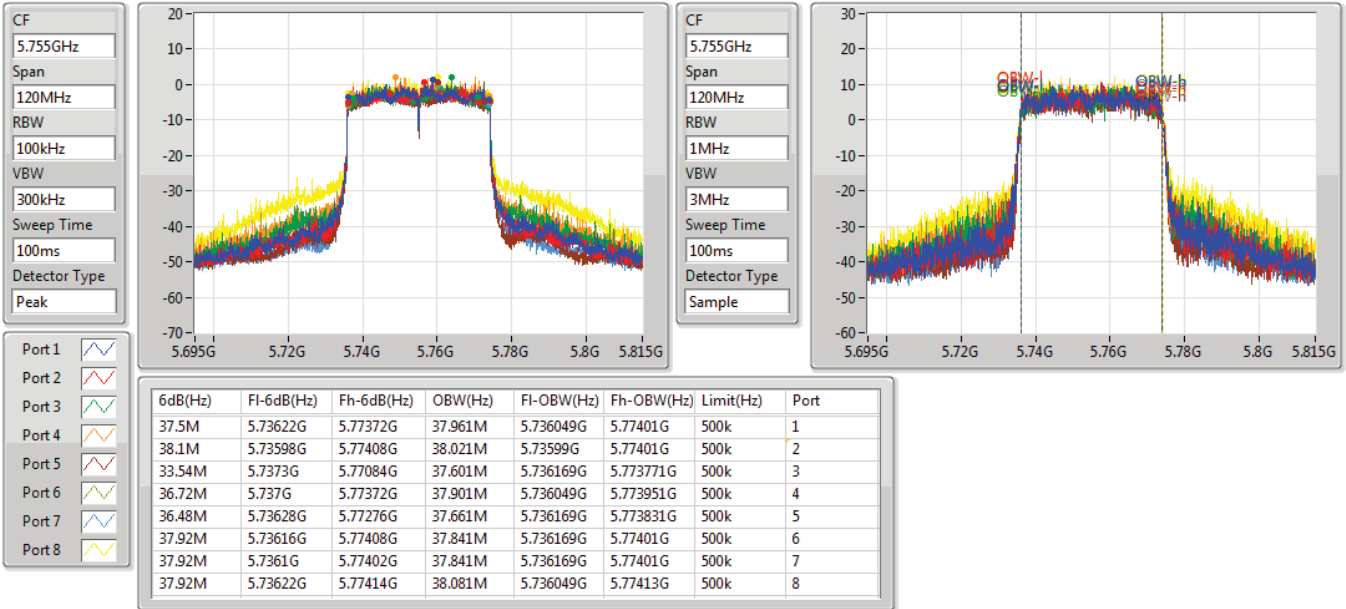

802.11ax HEW40_Nss1,(MCS0)_8TX
EBW
5230MHz

09/03/2021

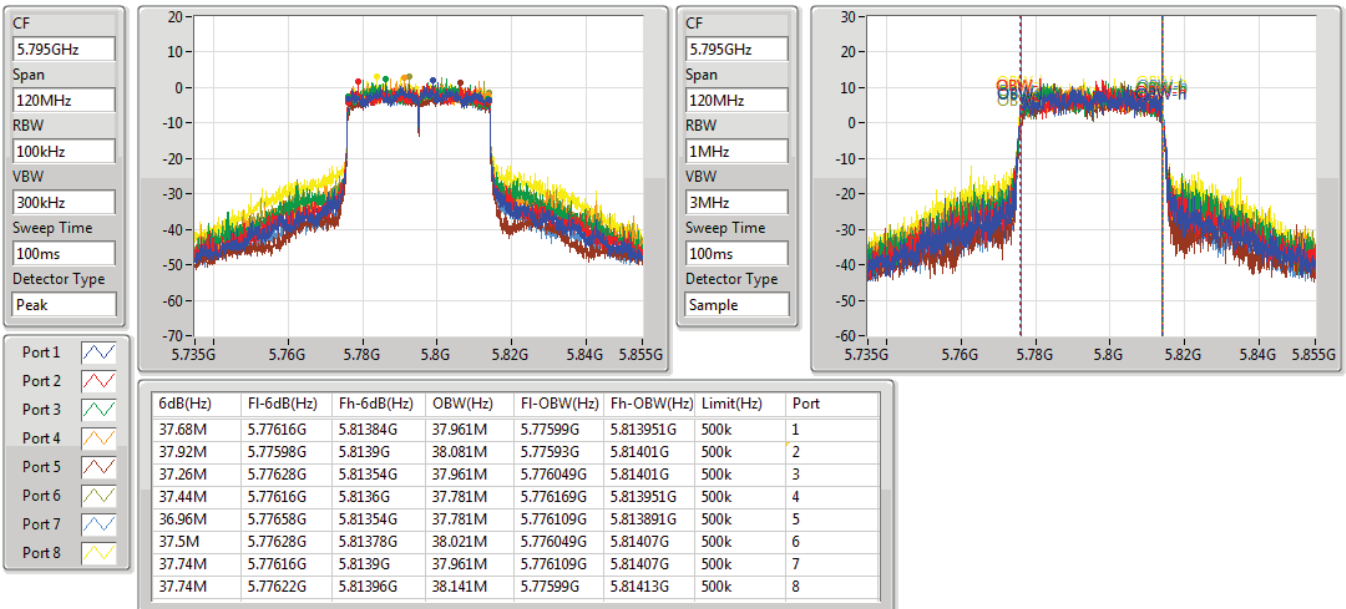


802.11ax HEW40_Nss1,(MCS0)_8TX
EBW
5755MHz

25/02/2021

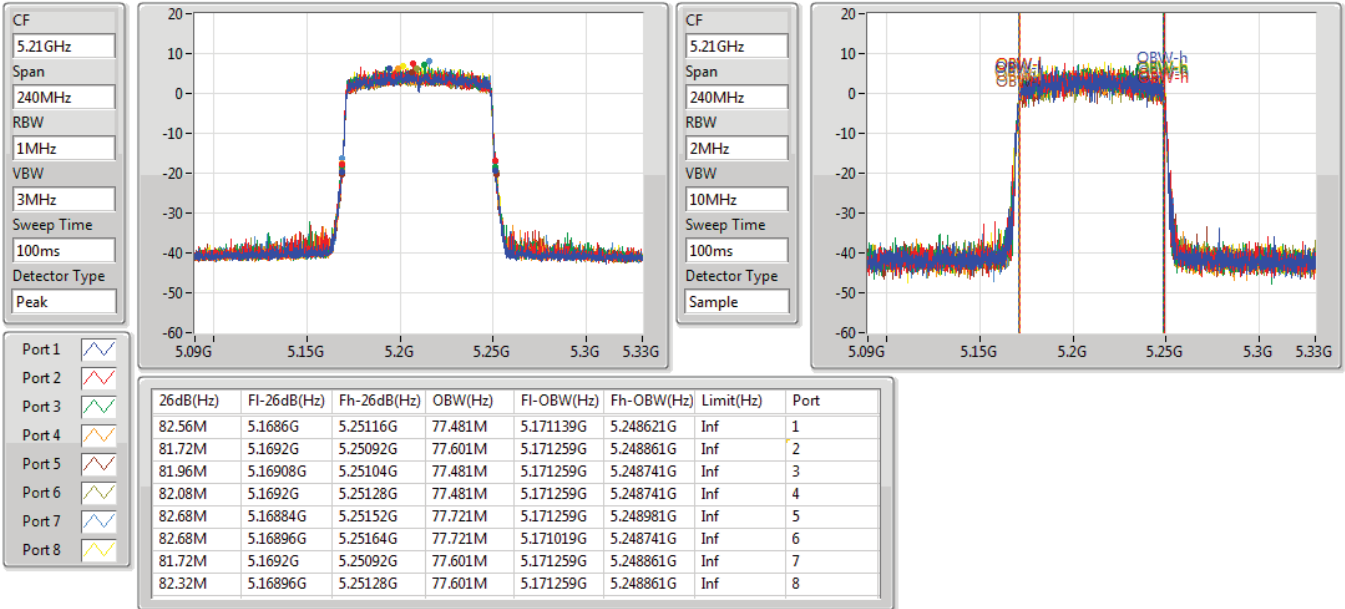

802.11ax HEW40_Nss1,(MCS0)_8TX
EBW
5795MHz

25/02/2021



802.11ax HEW80_Nss1,(MCS0)_8TX
EBW
5210MHz

25/02/2021


802.11ax HEW80_Nss1,(MCS0)_8TX
EBW
5775MHz

25/02/2021



**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)_1TX	36.45M	19.04M	19M0D1D	29.1M	17.091M
802.11n HT20_Nss1,(MCS0)_1TX	37.05M	19.67M	19M7D1D	29.37M	18.081M
802.11n HT40_Nss1,(MCS0)_1TX	52.02M	36.762M	36M8D1D	50.7M	36.702M
802.11ac VHT20_Nss1,(MCS0)_1TX	39.03M	19.88M	19M9D1D	29.73M	18.171M
802.11ac VHT40_Nss1,(MCS0)_1TX	51.42M	36.822M	36M8D1D	50.7M	36.822M
802.11ac VHT80_Nss1,(MCS0)_1TX	99.48M	76.762M	76M8D1D	99.48M	76.762M
5.725-5.85GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	16.32M	24.708M	24M7D1D	16.05M	22.339M
802.11n HT20_Nss1,(MCS0)_1TX	17.52M	25.487M	25M5D1D	17.49M	22.459M
802.11n HT40_Nss1,(MCS0)_1TX	36.3M	44.258M	44M3D1D	35.94M	41.859M
802.11ac VHT20_Nss1,(MCS0)_1TX	17.58M	25.217M	25M2D1D	17.52M	22.519M
802.11ac VHT40_Nss1,(MCS0)_1TX	35.88M	43.238M	43M2D1D	35.1M	42.039M
802.11ac VHT80_Nss1,(MCS0)_1TX	73.2M	76.882M	76M9D1D	73.2M	76.882M

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

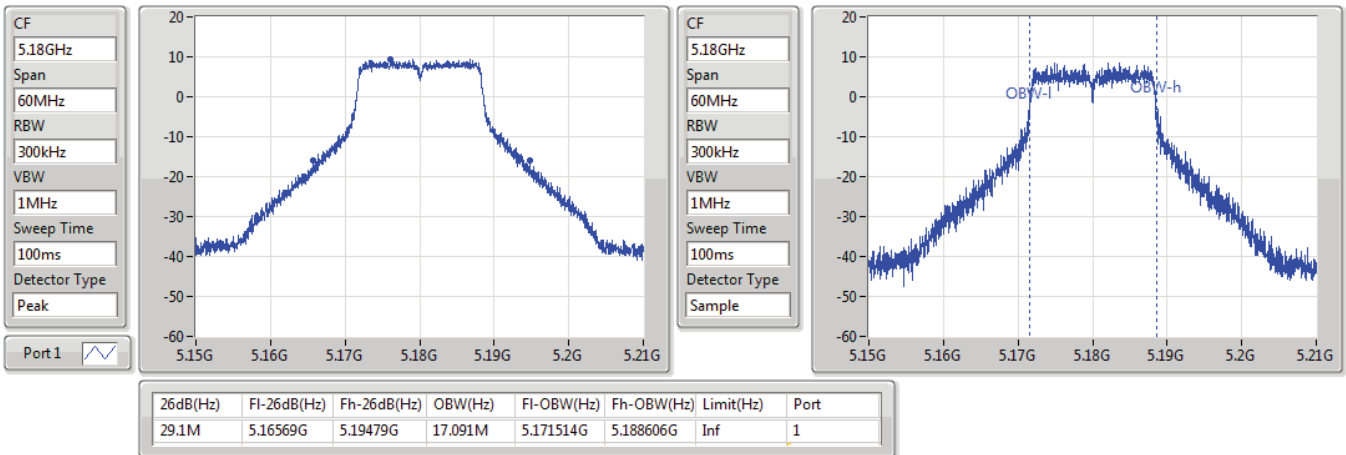
**Result**

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
802.11a_Nss1,(6Mbps)_1TX	-	-	-	-
5180MHz	Pass	Inf	29.1M	17.091M
5200MHz	Pass	Inf	29.55M	17.241M
5240MHz	Pass	Inf	36.45M	19.04M
5745MHz	Pass	500k	16.32M	22.339M
5785MHz	Pass	500k	16.29M	24.708M
5825MHz	Pass	500k	16.05M	23.238M
802.11n HT20_Nss1,(MCS0)_1TX	-	-	-	-
5180MHz	Pass	Inf	29.37M	18.081M
5200MHz	Pass	Inf	31.68M	18.351M
5240MHz	Pass	Inf	37.05M	19.67M
5745MHz	Pass	500k	17.52M	22.459M
5785MHz	Pass	500k	17.49M	25.487M
5825MHz	Pass	500k	17.52M	23.778M
802.11n HT40_Nss1,(MCS0)_1TX	-	-	-	-
5190MHz	Pass	Inf	50.7M	36.702M
5230MHz	Pass	Inf	52.02M	36.762M
5755MHz	Pass	500k	36.3M	41.859M
5795MHz	Pass	500k	35.94M	44.258M
802.11ac VHT20_Nss1,(MCS0)_1TX	-	-	-	-
5180MHz	Pass	Inf	29.73M	18.171M
5200MHz	Pass	Inf	30.78M	18.201M
5240MHz	Pass	Inf	39.03M	19.88M
5745MHz	Pass	500k	17.58M	22.519M
5785MHz	Pass	500k	17.52M	25.217M
5825MHz	Pass	500k	17.58M	23.688M
802.11ac VHT40_Nss1,(MCS0)_1TX	-	-	-	-
5190MHz	Pass	Inf	51.42M	36.822M
5230MHz	Pass	Inf	50.7M	36.822M
5755MHz	Pass	500k	35.88M	42.039M
5795MHz	Pass	500k	35.1M	43.238M
802.11ac VHT80_Nss1,(MCS0)_1TX	-	-	-	-
5210MHz	Pass	Inf	99.48M	76.762M
5775MHz	Pass	500k	73.2M	76.882M

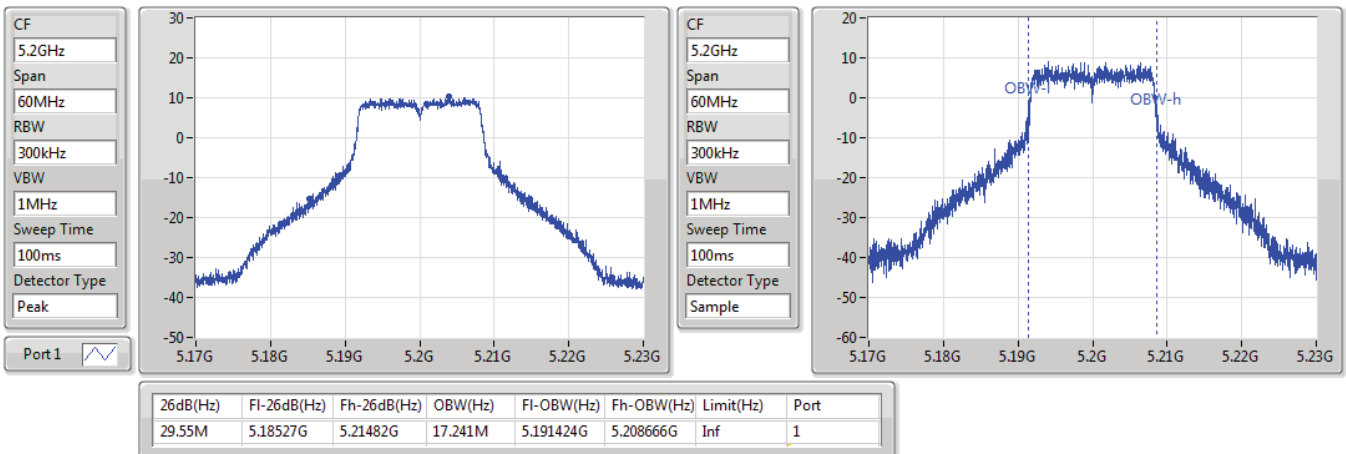
Port X-N dB = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band
Port X-OBW = Port X 99% occupied bandwidth

802.11a_Nss1,(6Mbps)_1TX
EBW
5180MHz

26/02/2021

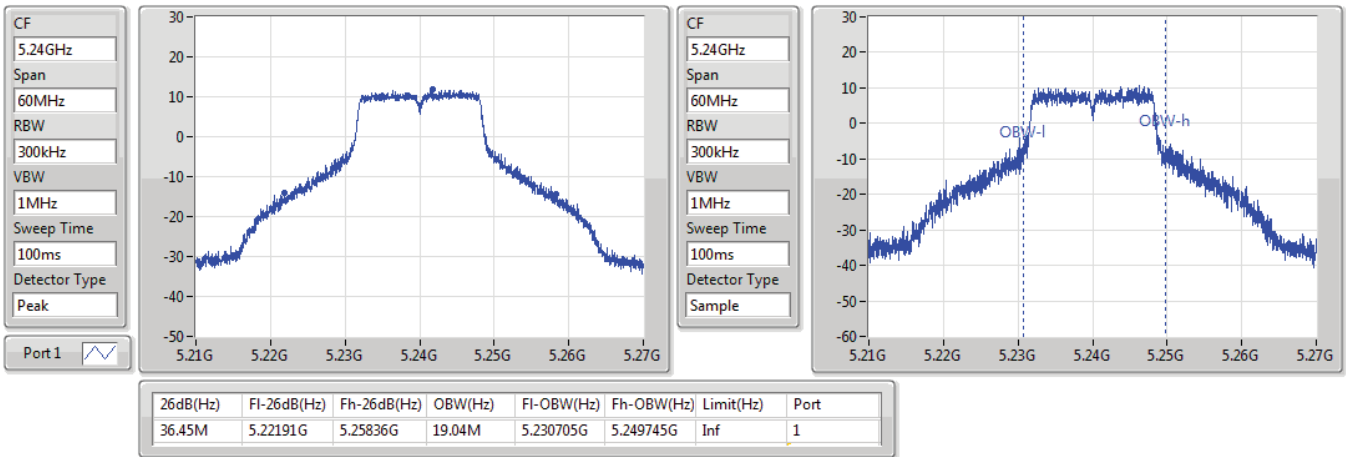

802.11a_Nss1,(6Mbps)_1TX
EBW
5200MHz

26/02/2021

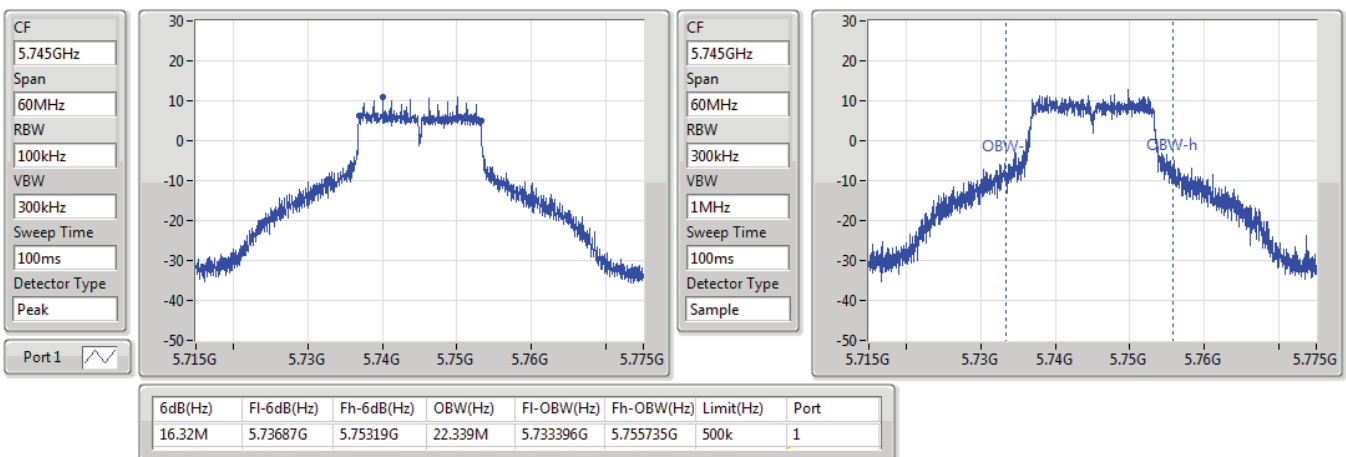


802.11a_Nss1,(6Mbps)_1TX
EBW
5240MHz

26/02/2021

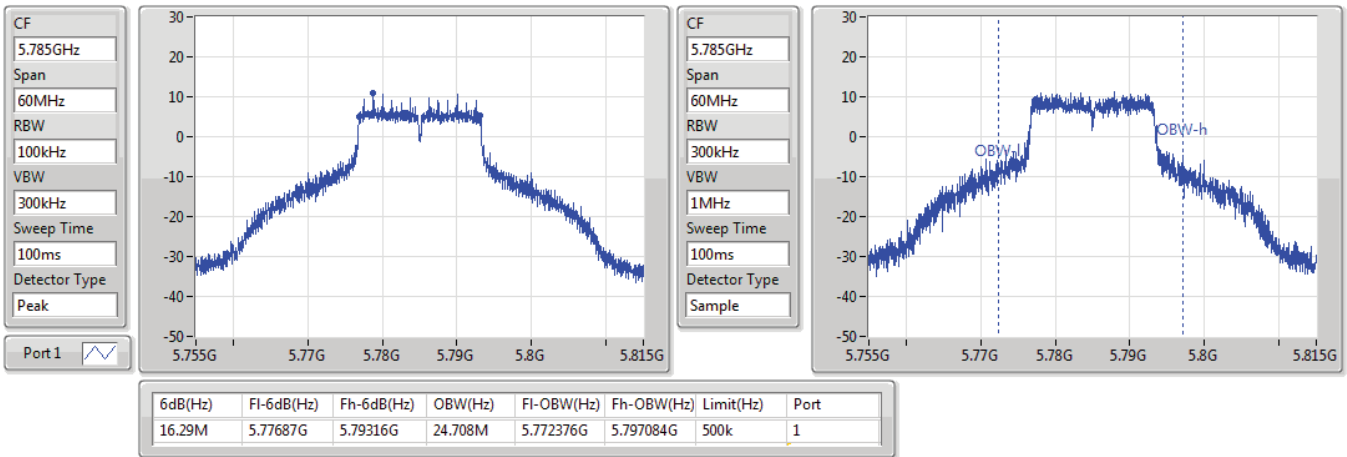

802.11a_Nss1,(6Mbps)_1TX
EBW
5745MHz

26/02/2021

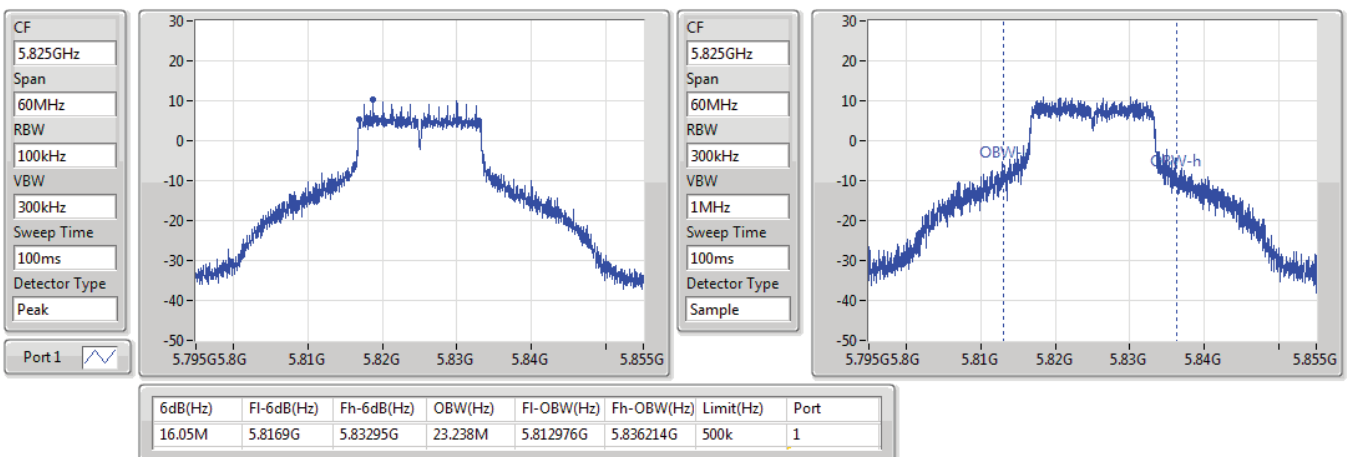


802.11a_Nss1,(6Mbps)_1TX
EBW
5785MHz

26/02/2021

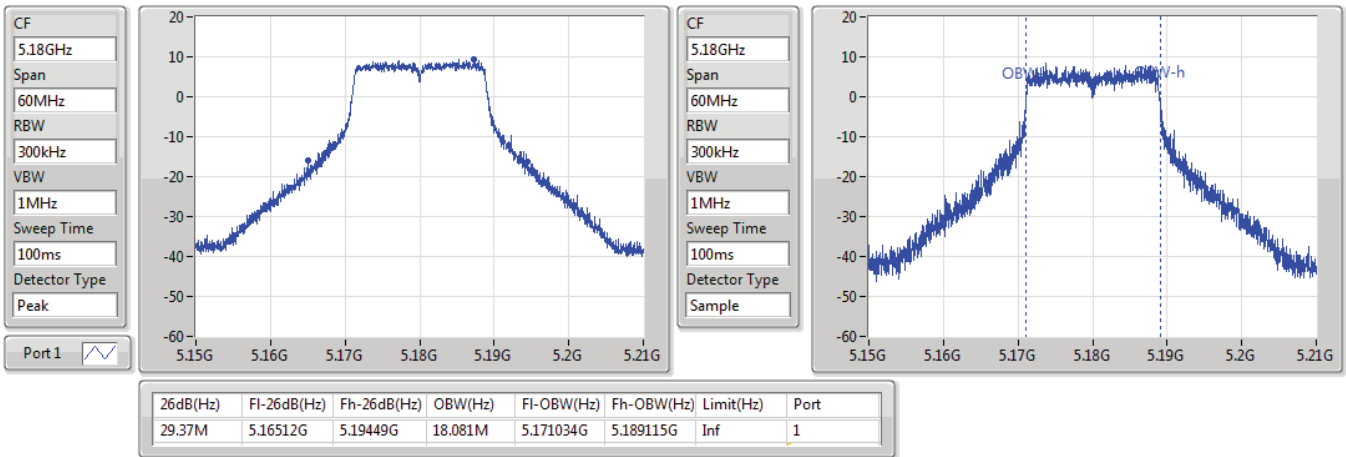

802.11a_Nss1,(6Mbps)_1TX
EBW
5825MHz

26/02/2021

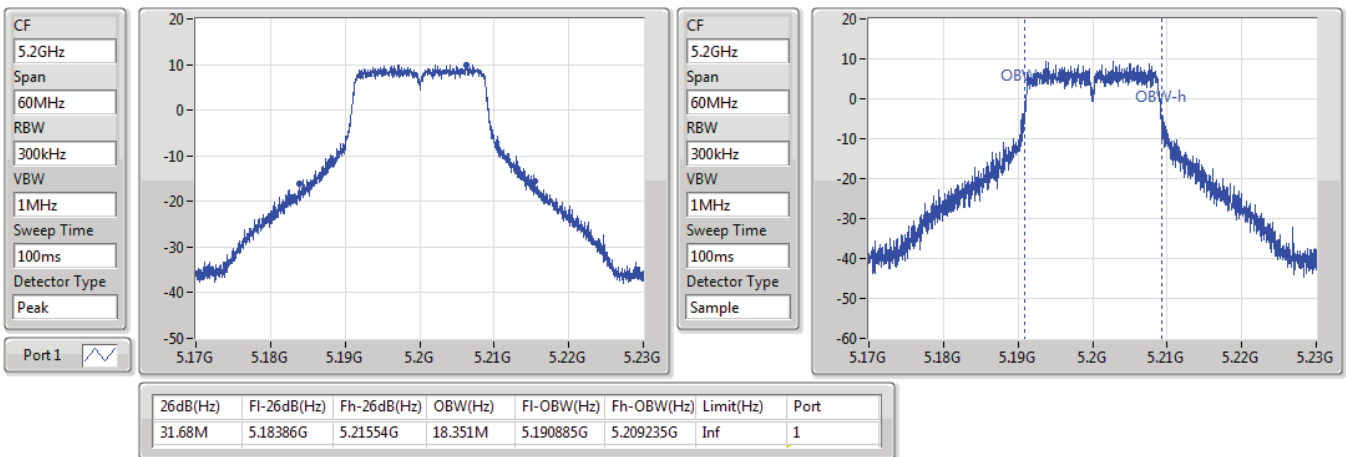


802.11n HT20_Nss1,(MCS0)_1TX
EBW
5180MHz

26/02/2021

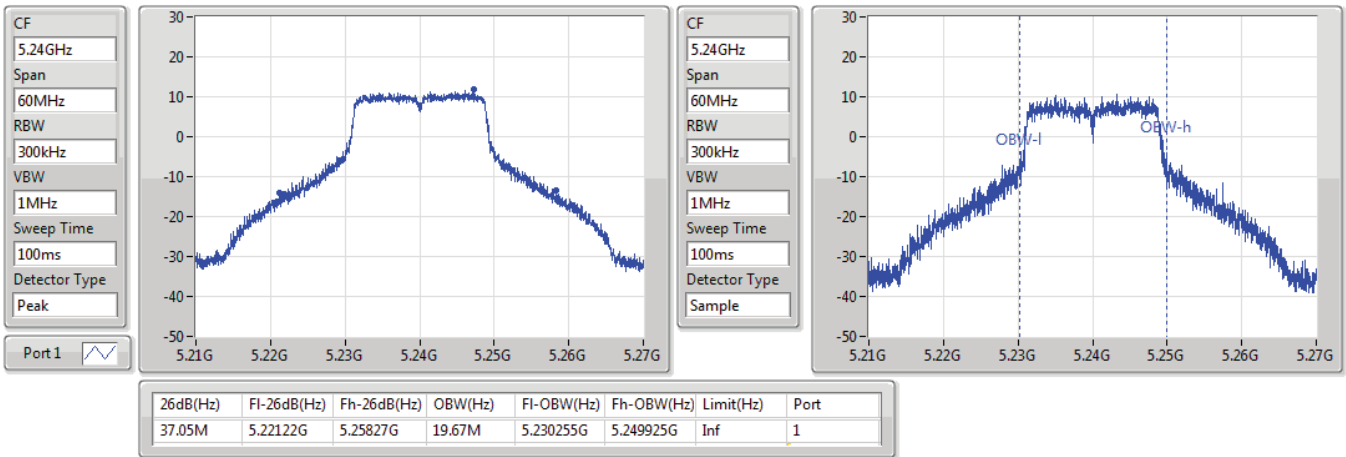

802.11n HT20_Nss1,(MCS0)_1TX
EBW
5200MHz

26/02/2021

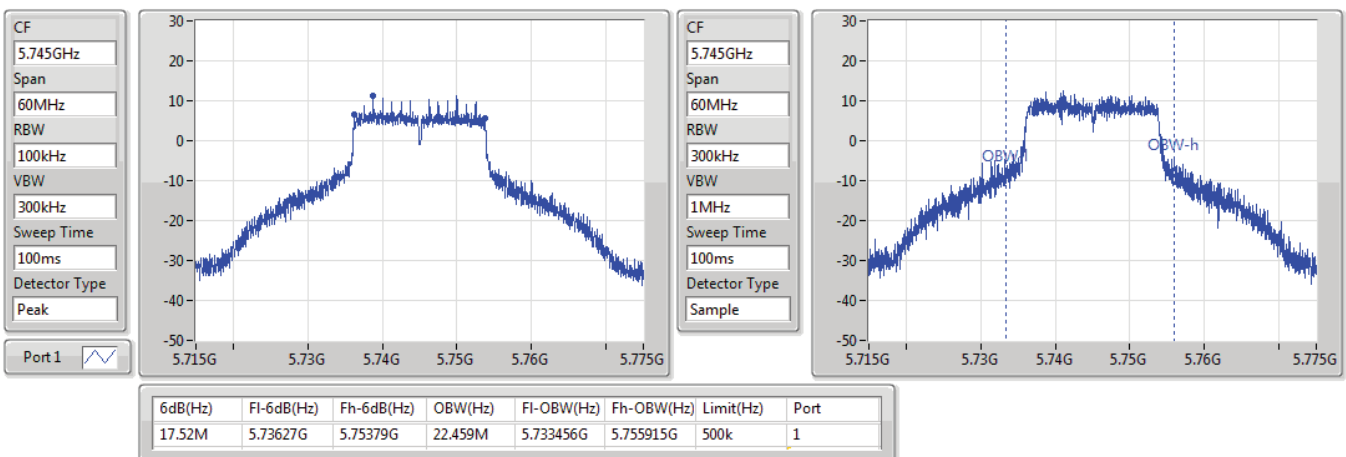


802.11n HT20_Nss1,(MCS0)_1TX
EBW
5240MHz

26/02/2021

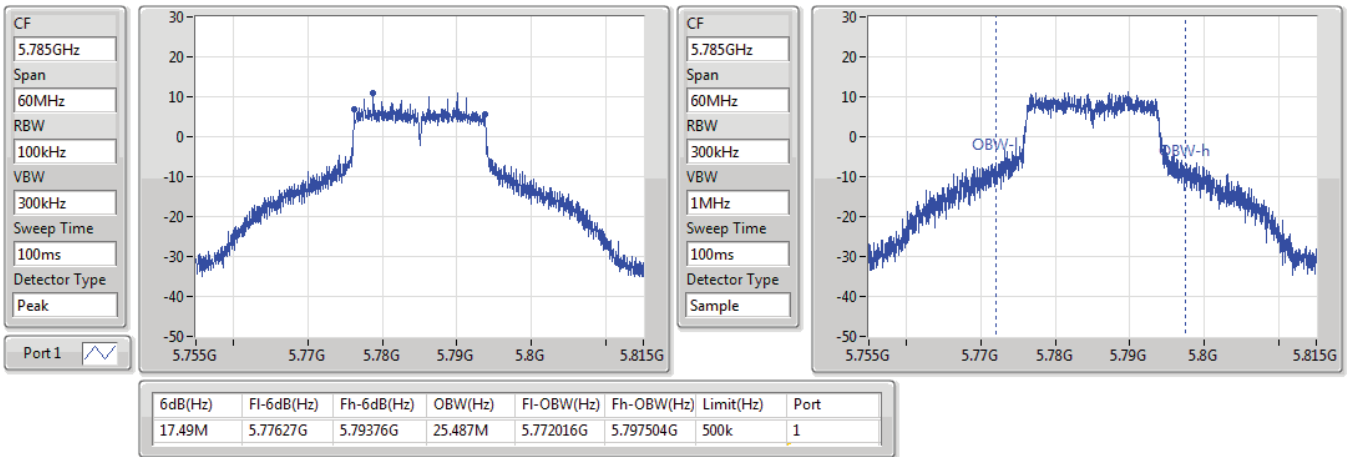

802.11n HT20_Nss1,(MCS0)_1TX
EBW
5745MHz

26/02/2021

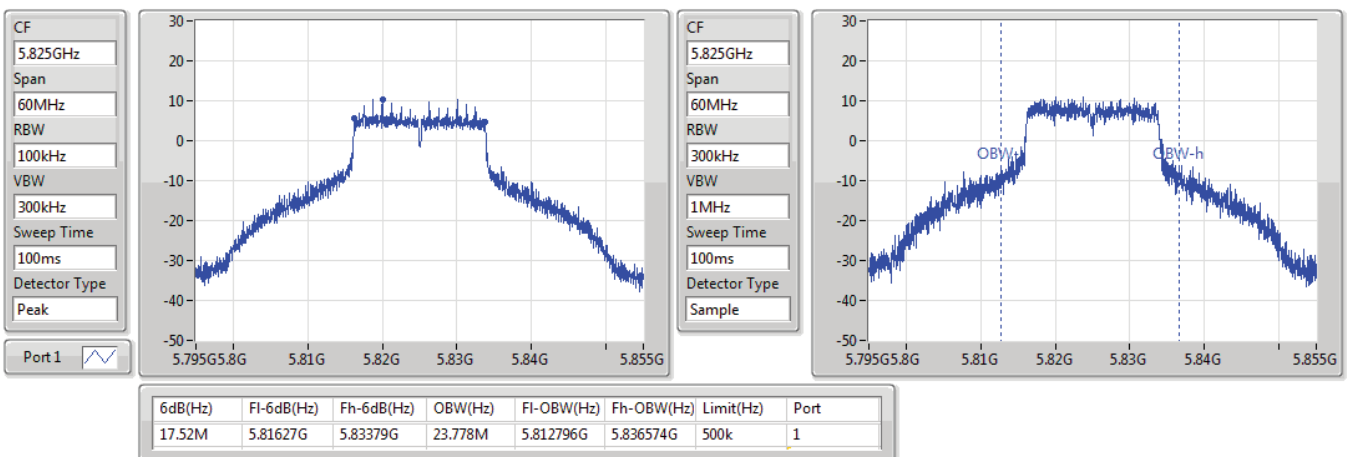


802.11n HT20_Nss1,(MCS0)_1TX
EBW
5785MHz

26/02/2021

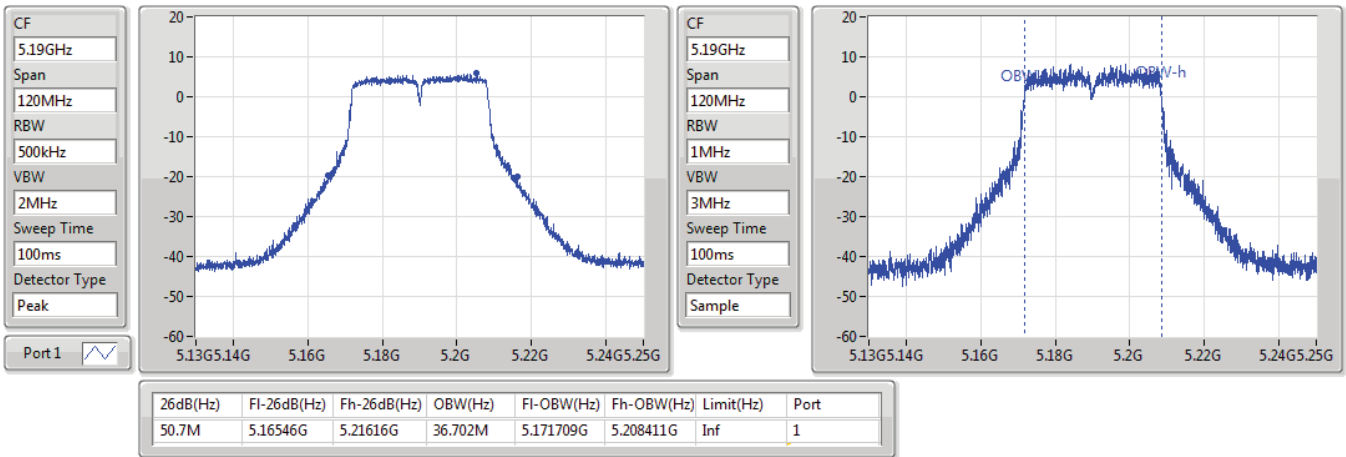

802.11n HT20_Nss1,(MCS0)_1TX
EBW
5825MHz

26/02/2021

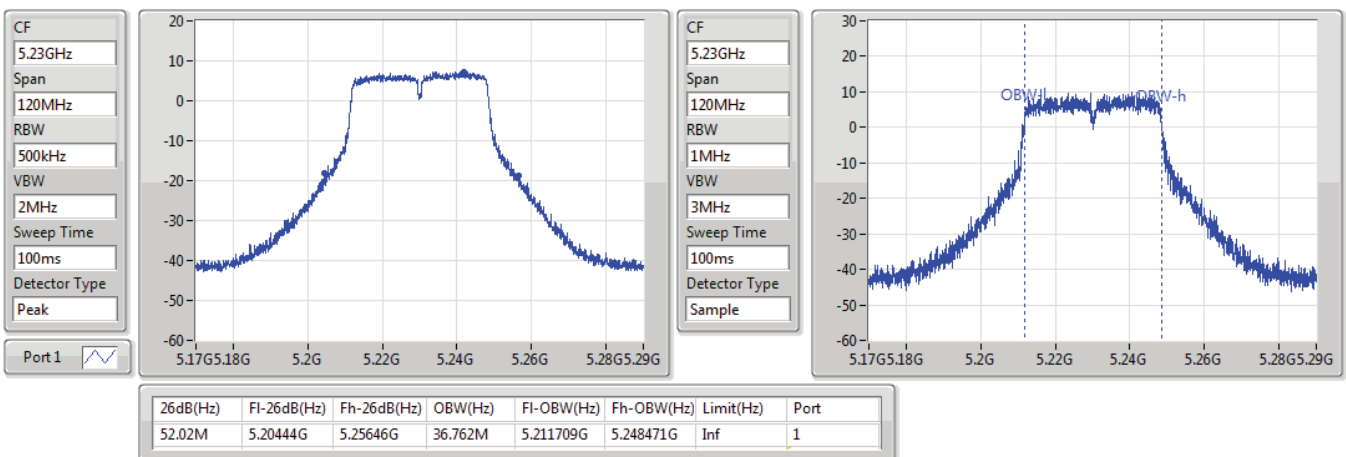


802.11n HT40_Nss1,(MCS0)_1TX
EBW
5190MHz

26/02/2021

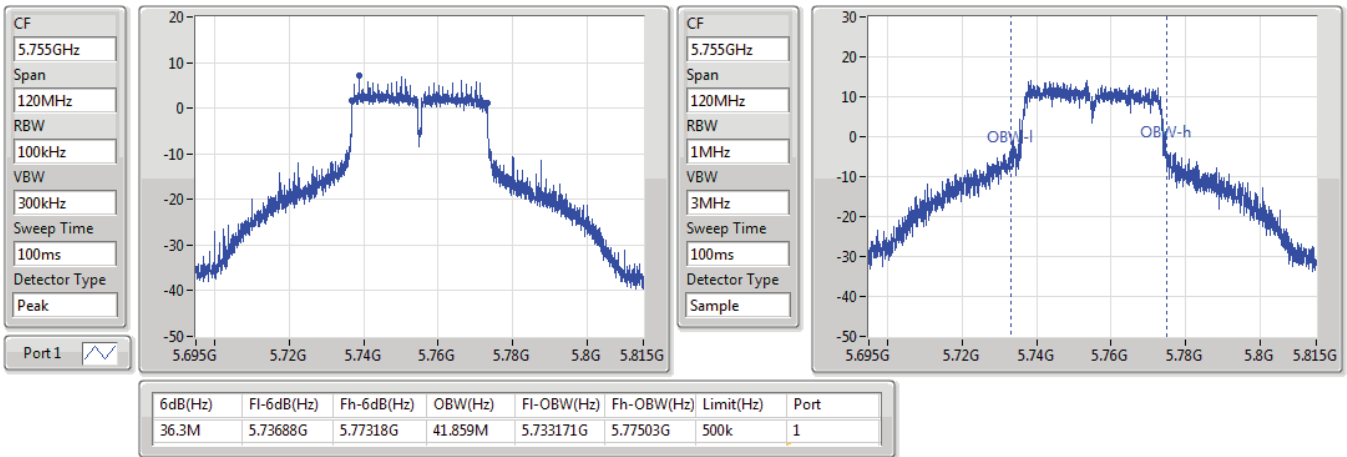

802.11n HT40_Nss1,(MCS0)_1TX
EBW
5230MHz

26/02/2021

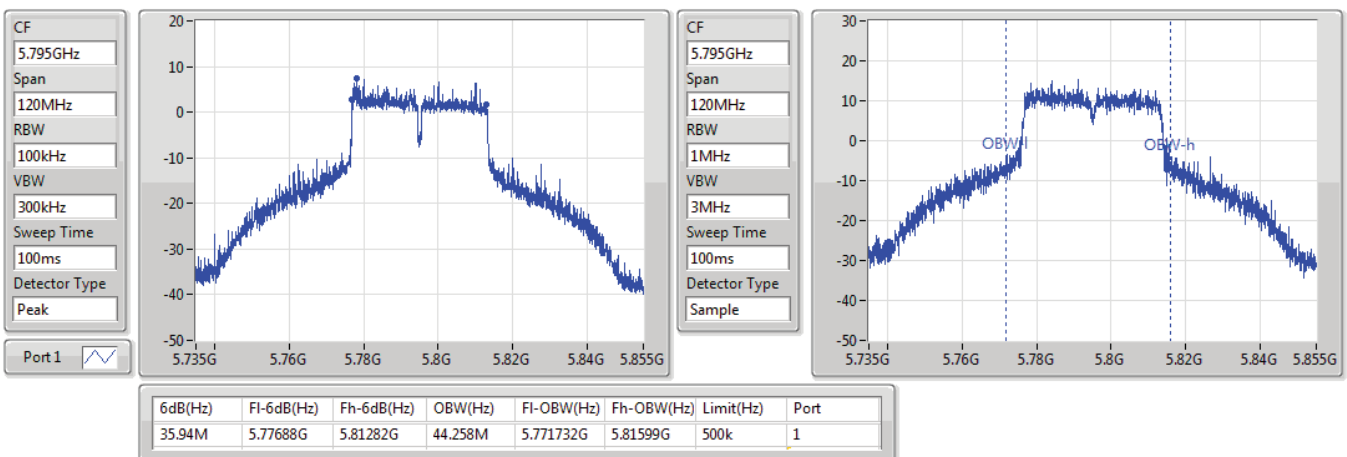


802.11n HT40_Nss1,(MCS0)_1TX
EBW
5755MHz

26/02/2021

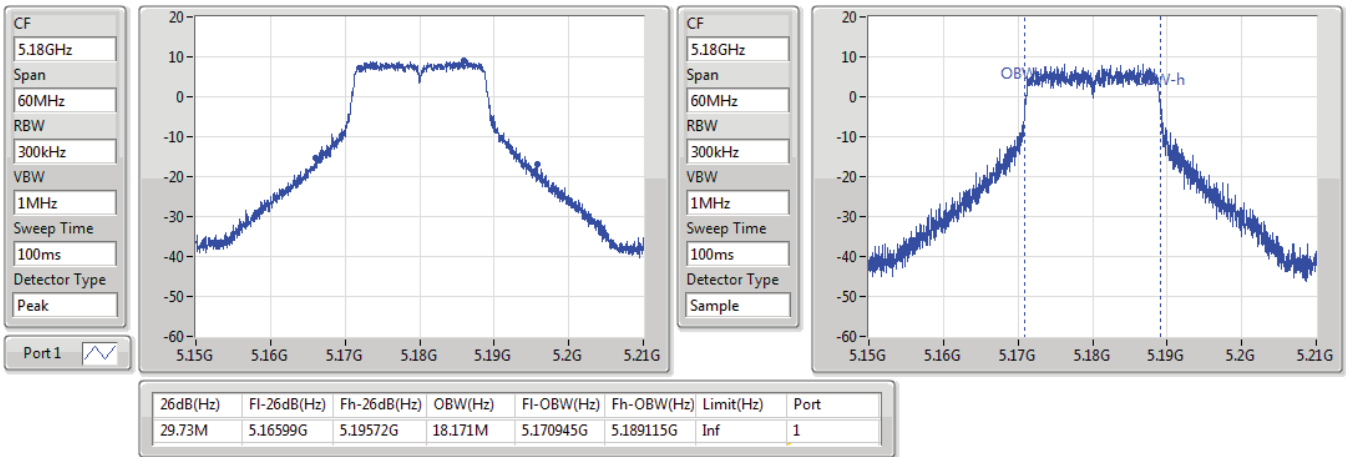

802.11n HT40_Nss1,(MCS0)_1TX
EBW
5795MHz

26/02/2021

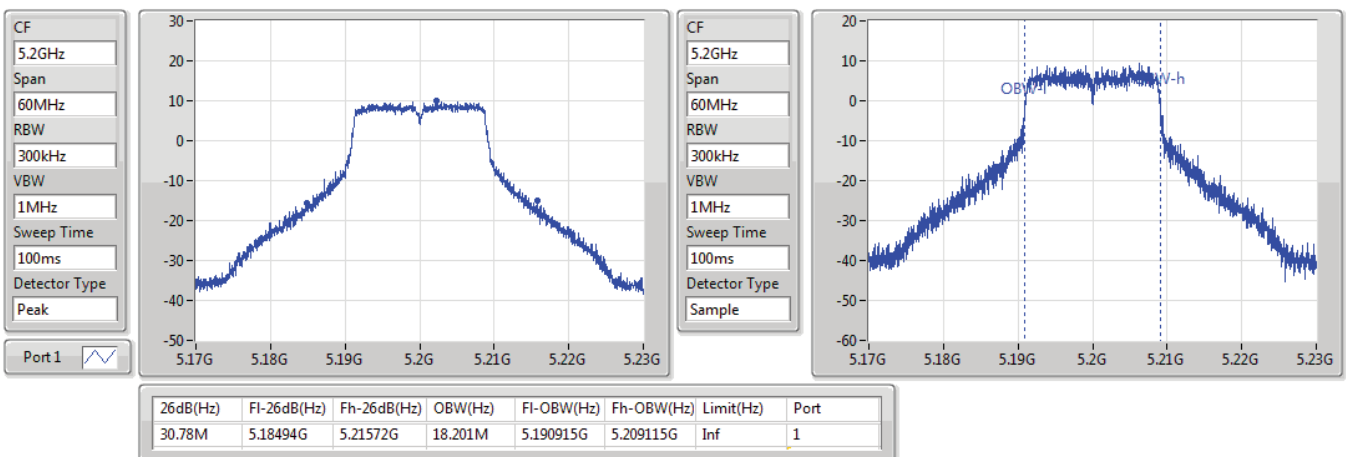


802.11ac VHT20_Nss1,(MCS0)_1TX
EBW
5180MHz

26/02/2021

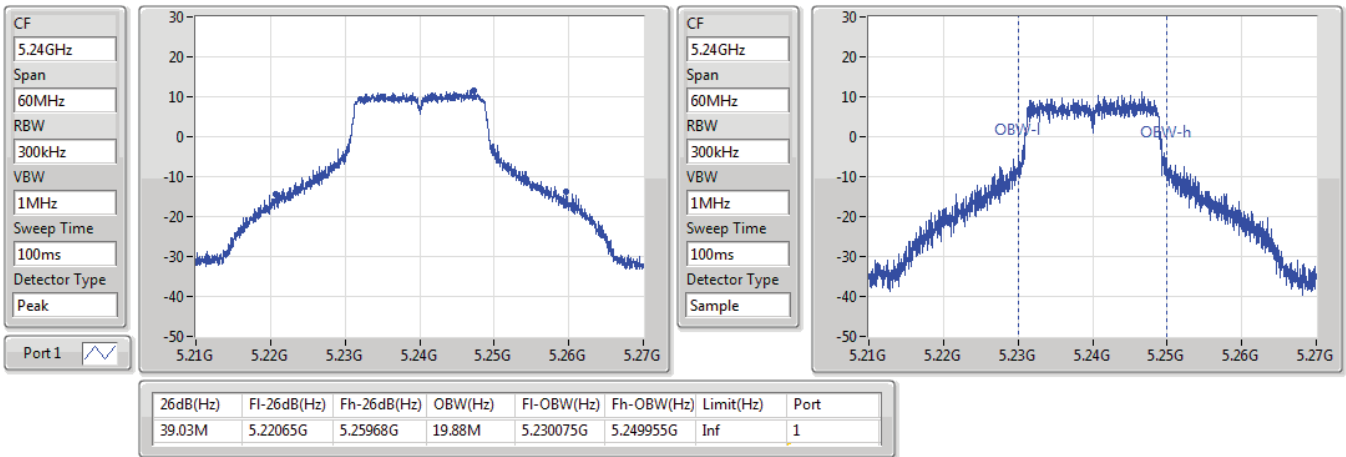

802.11ac VHT20_Nss1,(MCS0)_1TX
EBW
5200MHz

26/02/2021

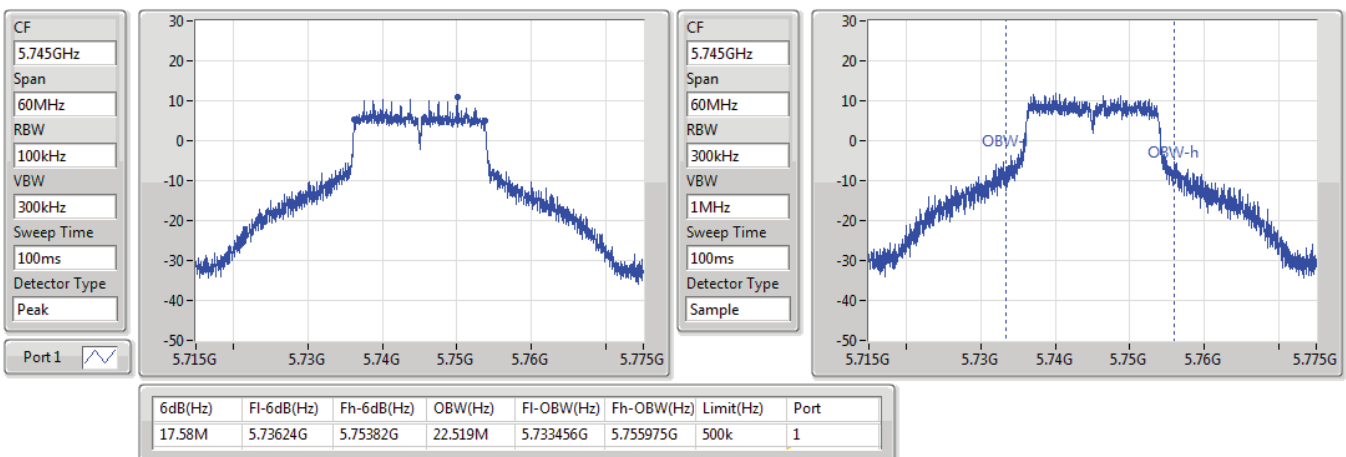


802.11ac VHT20_Nss1,(MCS0)_1TX
EBW
5240MHz

26/02/2021

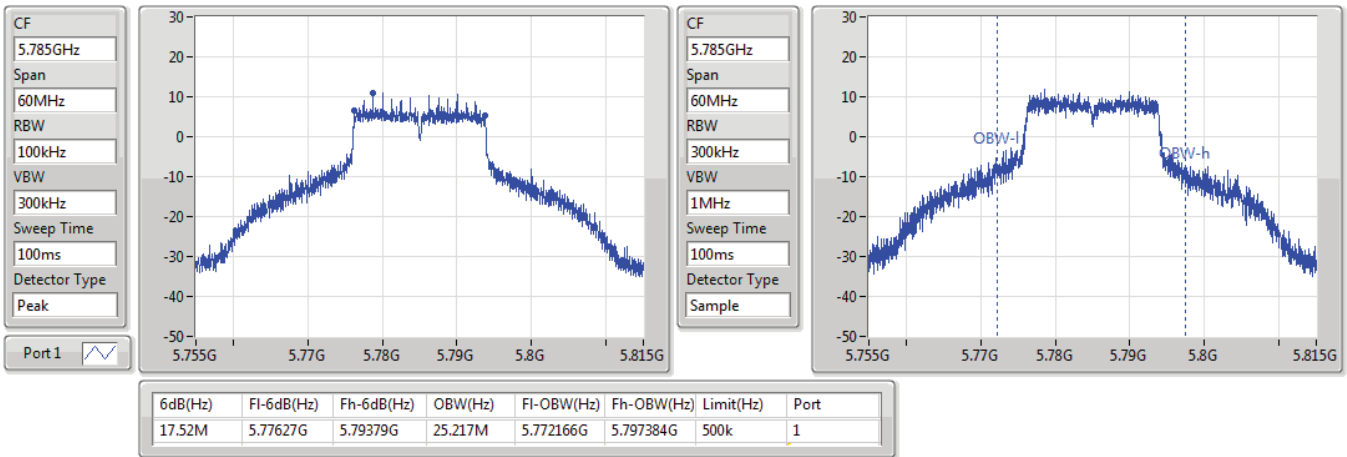

802.11ac VHT20_Nss1,(MCS0)_1TX
EBW
5745MHz

26/02/2021

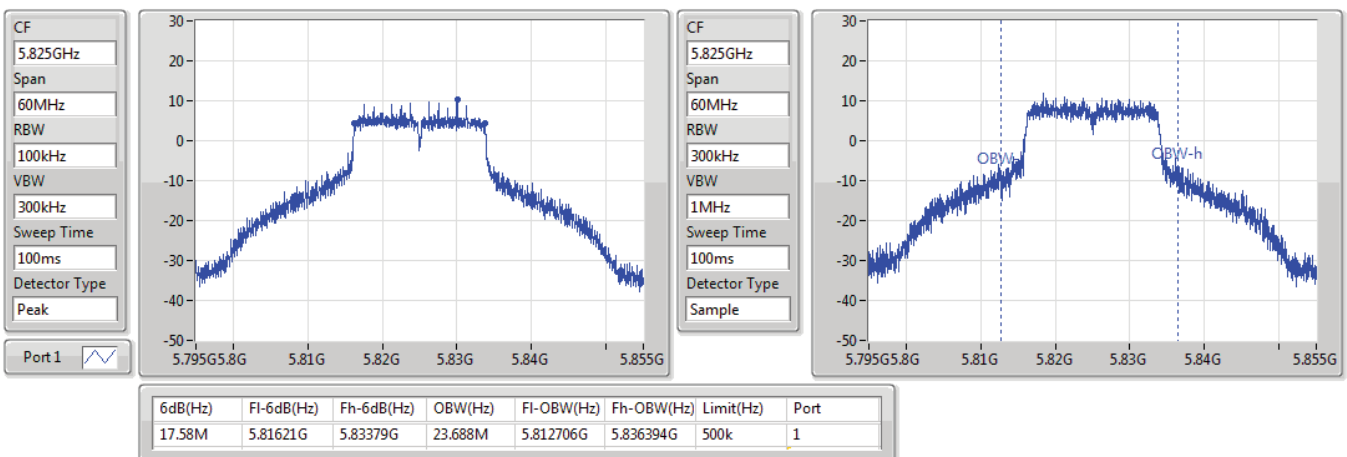


802.11ac VHT20_Nss1,(MCS0)_1TX
EBW
5785MHz

26/02/2021

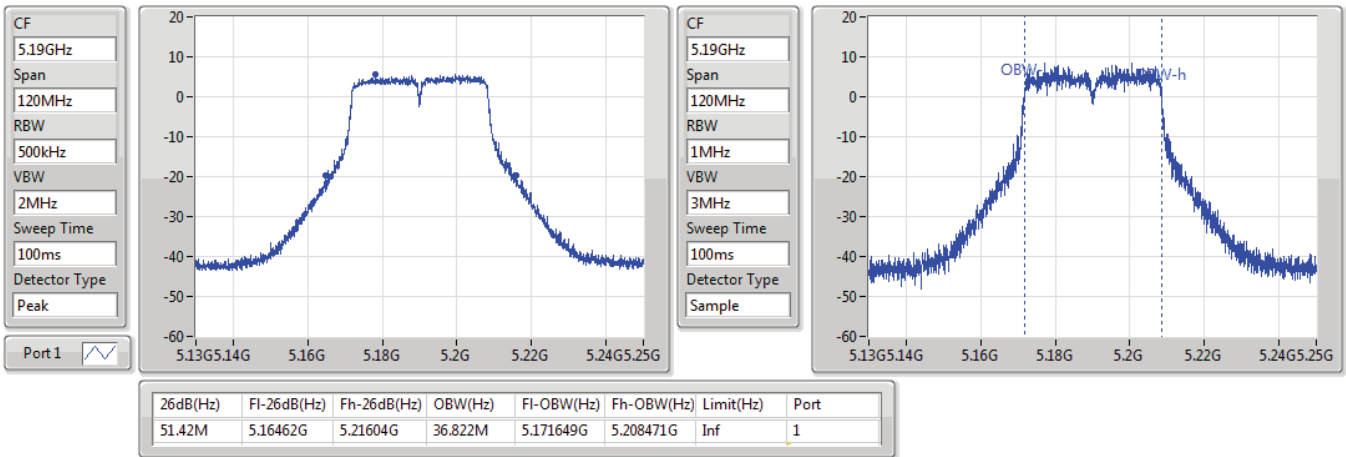

802.11ac VHT20_Nss1,(MCS0)_1TX
EBW
5825MHz

26/02/2021

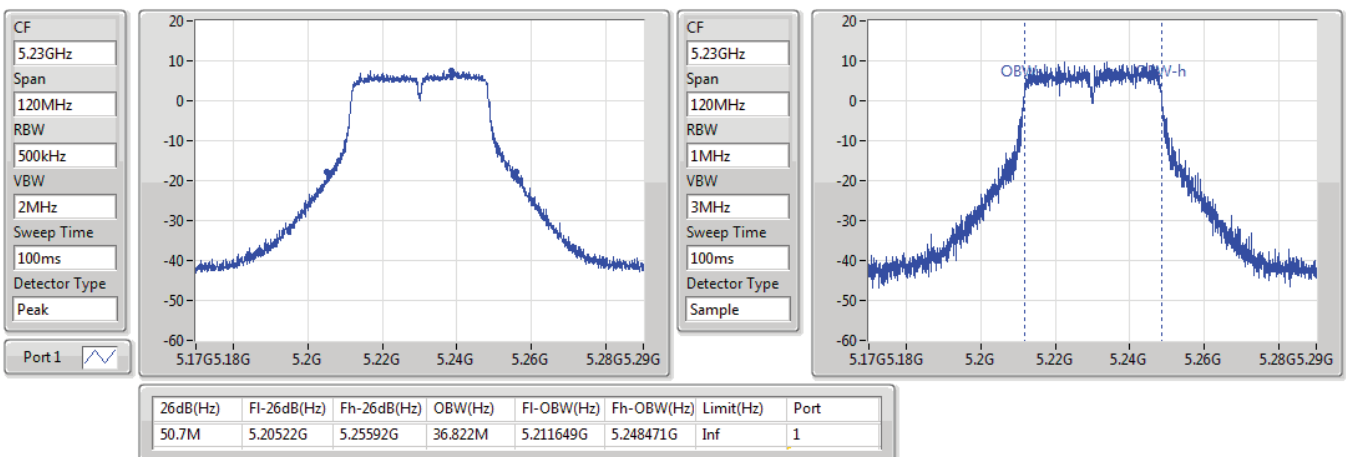


802.11ac VHT40_Nss1,(MCS0)_1TX
EBW
5190MHz

26/02/2021

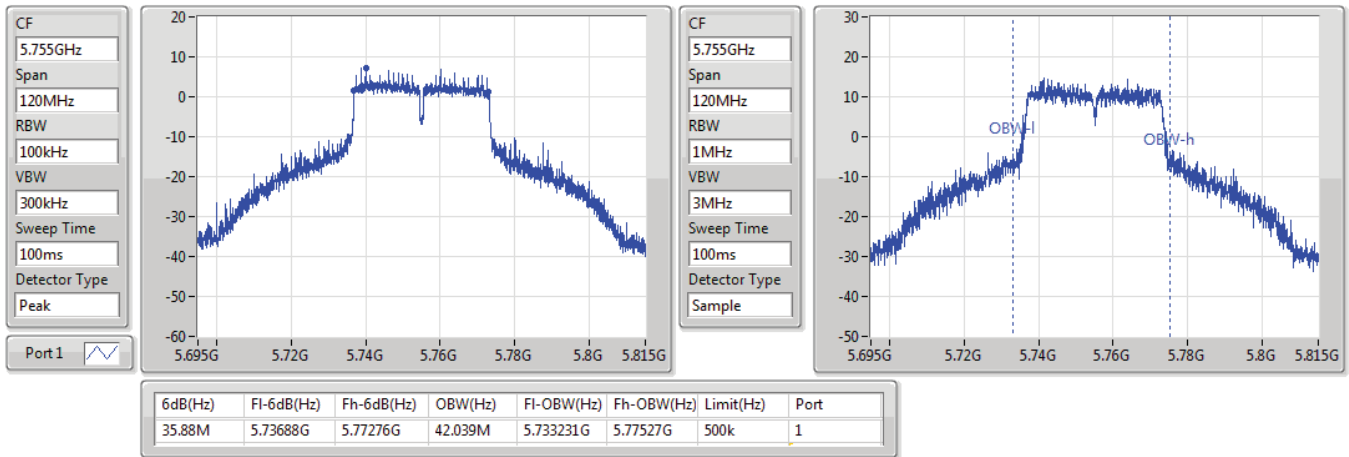

802.11ac VHT40_Nss1,(MCS0)_1TX
EBW
5230MHz

26/02/2021

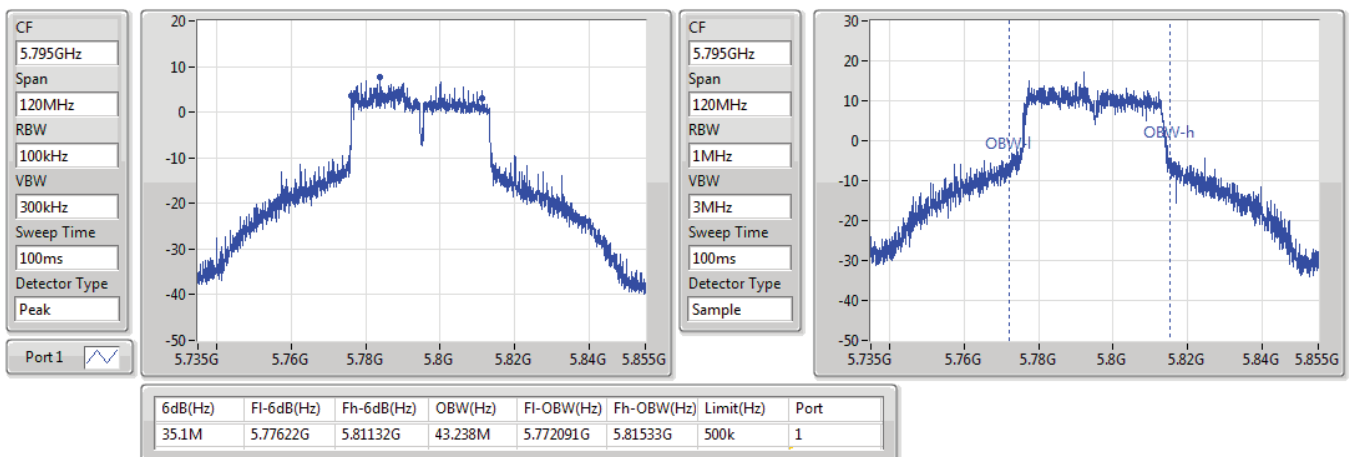


802.11ac VHT40_Nss1,(MCS0)_1TX
EBW
5755MHz

26/02/2021

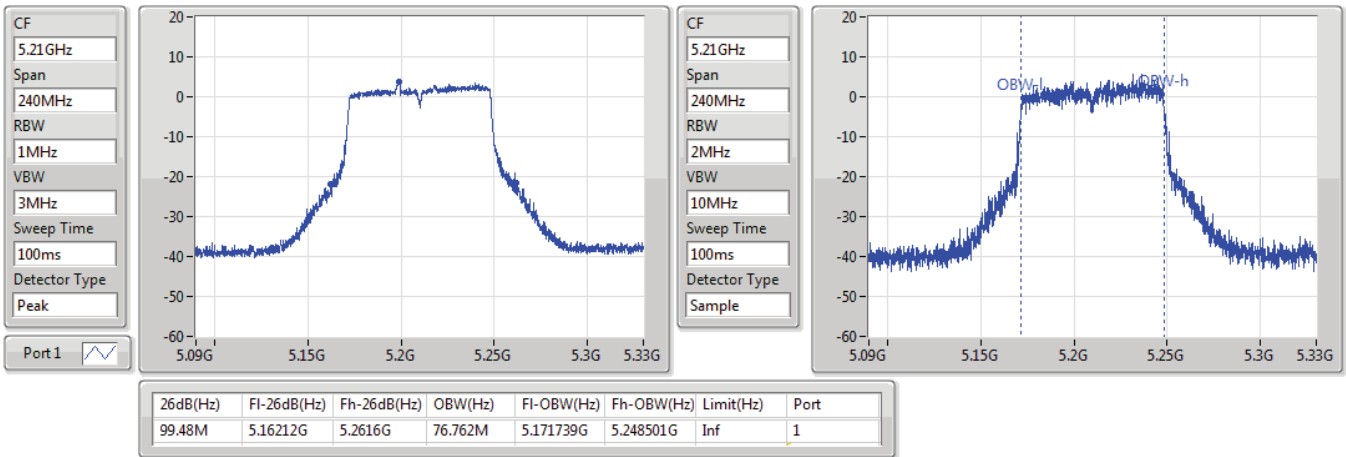

802.11ac VHT40_Nss1,(MCS0)_1TX
EBW
5795MHz

26/02/2021

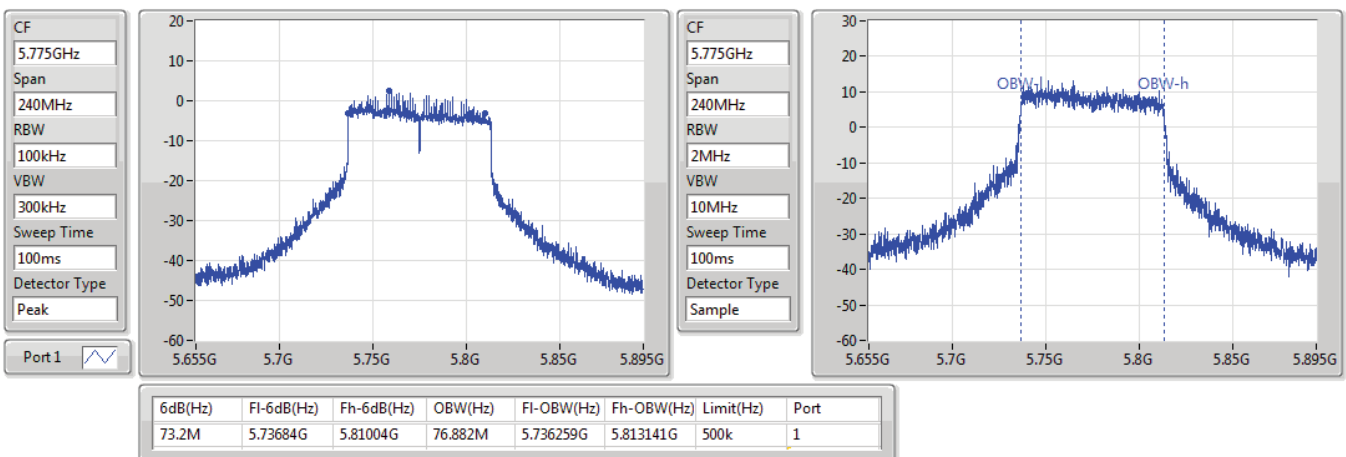


802.11ac VHT80_Nss1,(MCS0)_1TX
EBW
5210MHz

26/02/2021


802.11ac VHT80_Nss1,(MCS0)_1TX
EBW
5775MHz

26/02/2021



**Summary**

Mode	Total Power (dBm)	Total Power (W)	EIRP (dBm)	EIRP (W)
5.15-5.25GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	25.39	0.34594	31.60	1.44544
802.11n HT20_Nss1,(MCS0)_4TX	25.29	0.33806	31.50	1.41254
802.11n HT40_Nss1,(MCS0)_4TX	22.98	0.19861	29.19	0.82985
802.11ac VHT20_Nss1,(MCS0)_4TX	25.30	0.33884	31.51	1.41579
802.11ac VHT40_Nss1,(MCS0)_4TX	22.94	0.19679	29.15	0.82224
802.11ac VHT80_Nss1,(MCS0)_4TX	19.30	0.08511	25.51	0.35563
802.11ax HEW20_Nss1,(MCS0)_4TX	25.46	0.35156	31.67	1.46893
802.11ax HEW40_Nss1,(MCS0)_4TX	23.16	0.20701	29.37	0.86497
802.11ax HEW80_Nss1,(MCS0)_4TX	19.62	0.09162	25.83	0.38282
5.725-5.85GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	25.27	0.33651	31.54	1.42561
802.11n HT20_Nss1,(MCS0)_4TX	25.60	0.36308	31.87	1.53815
802.11n HT40_Nss1,(MCS0)_4TX	24.88	0.30761	31.15	1.30317
802.11ac VHT20_Nss1,(MCS0)_4TX	25.72	0.37325	31.99	1.58125
802.11ac VHT40_Nss1,(MCS0)_4TX	24.91	0.30974	31.18	1.31220
802.11ac VHT80_Nss1,(MCS0)_4TX	20.83	0.12106	27.10	0.51286
802.11ax HEW20_Nss1,(MCS0)_4TX	25.85	0.38459	32.12	1.62930
802.11ax HEW40_Nss1,(MCS0)_4TX	25.09	0.32285	31.36	1.36773
802.11ax HEW80_Nss1,(MCS0)_4TX	21.25	0.13335	27.52	0.56494



Average Power_Non-Beamforming_Radio1_4T1S

Appendix C.1

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Port 3 (dBm)	Port 4 (dBm)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
802.11a_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	6.21	15.81	15.52	16.10	16.12	21.91	29.79	28.12	36.00
5200MHz	Pass	6.21	17.67	17.19	18.04	18.37	23.86	29.79	30.07	36.00
5240MHz	Pass	6.21	19.56	18.91	19.40	19.59	25.39	29.79	31.60	36.00
5745MHz	Pass	6.27	19.05	18.91	19.18	19.82	25.27	29.73	31.54	36.00
5785MHz	Pass	6.27	16.79	16.47	17.21	17.29	22.97	29.73	29.24	36.00
5825MHz	Pass	6.27	17.18	17.04	17.55	17.76	23.41	29.73	29.68	36.00
802.11n HT20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	6.21	15.24	14.83	15.56	15.56	21.33	29.79	27.54	36.00
5200MHz	Pass	6.21	16.18	15.87	16.62	17.09	22.49	29.79	28.70	36.00
5240MHz	Pass	6.21	19.47	18.81	19.32	19.44	25.29	29.79	31.50	36.00
5745MHz	Pass	6.27	17.13	16.96	17.57	17.96	23.44	29.73	29.71	36.00
5785MHz	Pass	6.27	19.04	18.88	19.45	20.69	25.60	29.73	31.87	36.00
5825MHz	Pass	6.27	18.20	18.06	18.54	19.93	24.77	29.73	31.04	36.00
802.11n HT40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	6.21	13.81	13.76	14.33	14.45	20.12	29.79	26.33	36.00
5230MHz	Pass	6.21	17.03	16.28	17.06	17.38	22.98	29.79	29.19	36.00
5755MHz	Pass	6.27	17.55	17.05	17.87	17.91	23.63	29.73	29.90	36.00
5795MHz	Pass	6.27	18.48	18.69	18.97	19.26	24.88	29.73	31.15	36.00
802.11ac VHT20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	6.21	15.25	14.87	15.61	15.53	21.35	29.79	27.56	36.00
5200MHz	Pass	6.21	17.53	16.88	17.92	18.29	23.71	29.79	29.92	36.00
5240MHz	Pass	6.21	19.48	18.91	19.22	19.48	25.30	29.79	31.51	36.00
5745MHz	Pass	6.27	17.20	17.00	17.60	17.90	23.46	29.73	29.73	36.00
5785MHz	Pass	6.27	18.94	18.90	19.61	21.01	25.72	29.73	31.99	36.00
5825MHz	Pass	6.27	18.27	17.99	18.54	20.00	24.79	29.73	31.06	36.00
802.11ac VHT40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	6.21	14.50	14.19	14.95	14.98	20.69	29.79	26.90	36.00
5230MHz	Pass	6.21	17.00	16.21	16.98	17.40	22.94	29.79	29.15	36.00
5755MHz	Pass	6.27	17.43	17.34	17.74	18.18	23.71	29.73	29.98	36.00
5795MHz	Pass	6.27	18.61	18.68	18.99	19.25	24.91	29.73	31.18	36.00
802.11ac VHT80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	6.21	13.05	12.69	13.49	13.81	19.30	29.79	25.51	36.00
5775MHz	Pass	6.27	14.67	14.66	14.91	14.99	20.83	29.73	27.10	36.00
802.11ax HEW20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	6.21	15.50	15.29	15.80	15.79	21.62	29.79	27.83	36.00
5200MHz	Pass	6.21	17.76	17.21	18.18	18.51	23.96	29.79	30.17	36.00
5240MHz	Pass	6.21	19.64	19.08	19.44	19.57	25.46	29.79	31.67	36.00
5745MHz	Pass	6.27	17.33	17.02	17.68	18.00	23.54	29.73	29.81	36.00
5785MHz	Pass	6.27	19.24	18.85	19.69	21.17	25.85	29.73	32.12	36.00
5825MHz	Pass	6.27	18.49	18.10	18.70	20.21	24.97	29.73	31.24	36.00
802.11ax HEW40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	6.21	14.66	14.25	14.98	15.30	20.84	29.79	27.05	36.00
5230MHz	Pass	6.21	17.12	16.50	17.21	17.65	23.16	29.79	29.37	36.00
5755MHz	Pass	6.27	17.48	17.40	18.07	18.44	23.89	29.73	30.16	36.00
5795MHz	Pass	6.27	18.70	18.81	19.10	19.61	25.09	29.73	31.36	36.00
802.11ax HEW80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	6.21	13.43	12.96	13.70	14.21	19.62	29.79	25.83	36.00
5775MHz	Pass	6.27	15.01	15.09	15.13	15.65	21.25	29.73	27.52	36.00

DG = Directional Gain; Port X = Port X output power

**Summary**

Mode	Total Power (dBm)	Total Power (W)	EIRP (dBm)	EIRP (W)
5.15-5.25GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_8TX	26.13	0.41020	35.40	3.46737
802.11n HT20_Nss1,(MCS0)_8TX	25.69	0.37068	34.96	3.13329
802.11n HT40_Nss1,(MCS0)_8TX	25.99	0.39719	32.26	1.68267
802.11ac VHT20_Nss1,(MCS0)_8TX	25.70	0.37154	34.97	3.14051
802.11ac VHT40_Nss1,(MCS0)_8TX	26.01	0.39902	32.28	1.69044
802.11ac VHT80_Nss1,(MCS0)_8TX	21.81	0.15171	28.08	0.64269
802.11ax HEW20_Nss1,(MCS0)_8TX	25.86	0.38548	35.13	3.25837
802.11ax HEW40_Nss1,(MCS0)_8TX	26.16	0.41305	32.43	1.74985
802.11ax HEW80_Nss1,(MCS0)_8TX	22.10	0.16218	28.37	0.68707
5.725-5.85GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_8TX	26.06	0.40365	35.33	3.41193
802.11n HT20_Nss1,(MCS0)_8TX	25.39	0.34594	34.66	2.92415
802.11n HT40_Nss1,(MCS0)_8TX	25.87	0.38637	32.14	1.63682
802.11ac VHT20_Nss1,(MCS0)_8TX	25.40	0.34674	34.67	2.93089
802.11ac VHT40_Nss1,(MCS0)_8TX	25.90	0.38905	32.17	1.64816
802.11ac VHT80_Nss1,(MCS0)_8TX	23.95	0.24831	30.22	1.05196
802.11ax HEW20_Nss1,(MCS0)_8TX	25.69	0.37068	34.96	3.13329
802.11ax HEW40_Nss1,(MCS0)_8TX	25.99	0.39719	32.26	1.68267
802.11ax HEW80_Nss1,(MCS0)_8TX	24.19	0.26242	30.46	1.11173



Average Power_Non-Beamforming_Radio1_8T1S

Appendix C.2

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Port 3 (dBm)	Port 4 (dBm)	Port 5 (dBm)	Port 6 (dBm)	Port 7 (dBm)	Port 8 (dBm)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
802.11a_Nss1,(6Mbps)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	9.27	17.30	16.89	17.11	16.82	16.70	16.16	16.92	16.70	25.87	26.73	35.14	36.00
5200MHz	Pass	9.27	17.70	17.03	17.73	16.94	16.48	16.41	16.97	17.27	26.12	26.73	35.39	36.00
5240MHz	Pass	9.27	17.44	17.00	17.83	17.07	16.54	16.44	16.90	17.41	26.13	26.73	35.40	36.00
5745MHz	Pass	9.27	16.60	16.11	17.00	17.02	16.14	16.65	16.11	17.78	25.74	26.73	35.01	36.00
5785MHz	Pass	9.27	17.29	15.91	17.55	17.52	16.28	16.99	16.68	17.71	26.06	26.73	35.33	36.00
5825MHz	Pass	9.27	16.31	16.09	16.46	16.44	15.18	15.92	15.36	16.51	25.09	26.73	34.36	36.00
802.11n HT20_Nss1,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	9.27	15.27	15.44	15.73	15.37	15.22	14.94	15.57	15.11	24.37	26.73	33.64	36.00
5200MHz	Pass	9.27	17.35	16.02	17.03	16.14	16.40	16.44	16.73	16.73	25.66	26.73	34.93	36.00
5240MHz	Pass	9.27	16.87	16.76	17.24	16.16	16.23	15.83	16.86	17.14	25.69	26.73	34.96	36.00
5745MHz	Pass	9.27	16.56	14.42	17.06	16.44	15.39	16.04	15.63	17.28	25.22	26.73	34.49	36.00
5785MHz	Pass	9.27	14.27	15.08	14.44	14.85	13.81	14.60	14.33	15.35	23.65	26.73	32.92	36.00
5825MHz	Pass	9.27	16.72	16.56	16.41	16.68	15.65	16.32	15.69	16.70	25.39	26.73	34.66	36.00
802.11n HT40_Nss1,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	6.27	14.90	14.59	15.10	14.66	14.75	14.32	14.58	14.91	23.76	29.73	30.03	36.00
5230MHz	Pass	6.27	17.25	16.86	17.33	16.83	16.84	16.38	17.03	17.10	25.99	29.73	32.26	36.00
5755MHz	Pass	6.27	16.22	15.54	16.36	16.68	15.39	16.06	14.60	17.11	25.09	29.73	31.36	36.00
5795MHz	Pass	6.27	16.79	16.39	17.25	17.26	16.12	16.85	16.27	17.54	25.87	29.73	32.14	36.00
802.11ac VHT20_Nss1,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	9.27	15.34	15.53	15.62	15.30	15.25	15.09	15.65	15.12	24.40	26.73	33.67	36.00
5200MHz	Pass	9.27	17.04	16.99	17.11	16.43	15.93	16.19	16.67	16.68	25.68	26.73	34.95	36.00
5240MHz	Pass	9.27	16.84	16.99	17.14	16.81	15.78	16.23	16.61	16.80	25.70	26.73	34.97	36.00
5745MHz	Pass	9.27	16.60	14.39	17.02	16.63	15.71	15.82	15.73	17.36	25.27	26.73	34.54	36.00
5785MHz	Pass	9.27	14.54	15.29	14.47	14.82	13.92	14.66	14.24	15.46	23.73	26.73	33.00	36.00
5825MHz	Pass	9.27	16.47	15.76	17.38	16.97	15.60	16.20	15.92	16.34	25.40	26.73	34.67	36.00
802.11ac VHT40_Nss1,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	6.27	14.95	14.69	15.04	14.75	14.81	14.26	14.60	14.98	23.80	29.73	30.07	36.00
5230MHz	Pass	6.27	17.23	16.74	17.36	16.93	16.86	16.37	17.14	17.10	26.01	29.73	32.28	36.00
5755MHz	Pass	6.27	16.16	15.46	16.31	16.69	15.43	16.11	15.45	17.18	25.17	29.73	31.44	36.00
5795MHz	Pass	6.27	16.75	16.41	17.23	17.36	16.15	16.90	16.39	17.56	25.90	29.73	32.17	36.00
802.11ac VHT80_Nss1,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	6.27	12.67	12.90	13.00	12.51	12.67	12.33	12.79	13.30	21.81	29.73	28.08	36.00
5775MHz	Pass	6.27	14.94	14.46	15.29	15.18	14.20	14.96	14.43	15.67	23.95	29.73	30.22	36.00
802.11ax HEW20_Nss1,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	9.27	15.87	15.64	15.91	15.45	15.52	15.12	15.79	15.40	24.63	26.73	33.90	36.00
5200MHz	Pass	9.27	17.37	16.78	17.13	16.56	16.31	16.03	16.84	16.95	25.80	26.73	35.07	36.00
5240MHz	Pass	9.27	17.44	16.75	17.34	16.61	16.42	15.90	16.70	17.28	25.86	26.73	35.13	36.00
5745MHz	Pass	9.27	16.61	15.91	15.97	16.98	15.99	15.99	16.05	17.53	25.45	26.73	34.72	36.00
5785MHz	Pass	9.27	14.74	14.96	15.36	15.16	14.12	14.89	14.67	15.85	24.03	26.73	33.30	36.00
5825MHz	Pass	9.27	16.63	16.59	17.17	17.24	15.90	16.48	16.14	16.97	25.69	26.73	34.96	36.00
802.11ax HEW40_Nss1,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	6.27	15.12	14.75	15.30	14.87	14.89	14.45	14.84	15.05	23.95	29.73	30.22	36.00
5230MHz	Pass	6.27	17.35	17.07	17.45	17.02	16.99	16.59	17.16	17.35	26.16	29.73	32.43	36.00
5755MHz	Pass	6.27	16.27	16.06	16.21	16.53	15.16	16.18	15.58	17.44	25.26	29.73	31.53	36.00
5795MHz	Pass	6.27	16.83	16.93	17.19	17.32	15.91	17.00	16.39	17.86	25.99	29.73	32.26	36.00
802.11ax HEW80_Nss1,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	6.27	12.99	13.18	13.29	12.84	12.91	12.59	13.15	13.55	22.10	29.73	28.37	36.00
5775MHz	Pass	6.27	15.04	15.08	15.36	15.30	14.31	15.27	14.74	16.00	24.19	29.73	30.46	36.00

DG = Directional Gain; Port X = Port X output power

**Summary**

Mode	Total Power (dBm)	Total Power (W)	EIRP (dBm)	EIRP (W)
5.15-5.25GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	19.81	0.09572	24.41	0.27606
802.11n HT20_Nss1,(MCS0)_1TX	19.57	0.09057	24.17	0.26122
802.11n HT40_Nss1,(MCS0)_1TX	16.30	0.04266	20.90	0.12303
802.11ac VHT20_Nss1,(MCS0)_1TX	19.66	0.09247	24.26	0.26669
802.11ac VHT40_Nss1,(MCS0)_1TX	16.38	0.04345	20.98	0.12531
802.11ac VHT80_Nss1,(MCS0)_1TX	11.29	0.01346	15.89	0.03882
5.725-5.85GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	20.98	0.12531	25.58	0.36141
802.11n HT20_Nss1,(MCS0)_1TX	20.87	0.12218	25.47	0.35237
802.11n HT40_Nss1,(MCS0)_1TX	20.57	0.11402	25.17	0.32885
802.11ac VHT20_Nss1,(MCS0)_1TX	20.92	0.12359	25.52	0.35645
802.11ac VHT40_Nss1,(MCS0)_1TX	20.61	0.11508	25.21	0.33189
802.11ac VHT80_Nss1,(MCS0)_1TX	18.12	0.06486	22.72	0.18707



Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
802.11a_Nss1,(6Mbps)_1TX	-	-	-	-	-	-	-
5180MHz	Pass	4.60	17.54	17.54	30.00	22.14	36.00
5200MHz	Pass	4.60	18.16	18.16	30.00	22.76	36.00
5240MHz	Pass	4.60	19.81	19.81	30.00	24.41	36.00
5745MHz	Pass	4.60	20.98	20.98	30.00	25.58	36.00
5785MHz	Pass	4.60	20.54	20.54	30.00	25.14	36.00
5825MHz	Pass	4.60	20.12	20.12	30.00	24.72	36.00
802.11n HT20_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-
5180MHz	Pass	4.60	17.58	17.58	30.00	22.18	36.00
5200MHz	Pass	4.60	18.16	18.16	30.00	22.76	36.00
5240MHz	Pass	4.60	19.57	19.57	30.00	24.17	36.00
5745MHz	Pass	4.60	20.87	20.87	30.00	25.47	36.00
5785MHz	Pass	4.60	20.65	20.65	30.00	25.25	36.00
5825MHz	Pass	4.60	20.22	20.22	30.00	24.82	36.00
802.11n HT40_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-
5190MHz	Pass	4.60	14.65	14.65	30.00	19.25	36.00
5230MHz	Pass	4.60	16.30	16.30	30.00	20.90	36.00
5755MHz	Pass	4.60	20.57	20.57	30.00	25.17	36.00
5795MHz	Pass	4.60	20.29	20.29	30.00	24.89	36.00
802.11ac VHT20_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-
5180MHz	Pass	4.60	17.65	17.65	30.00	22.25	36.00
5200MHz	Pass	4.60	18.17	18.17	30.00	22.77	36.00
5240MHz	Pass	4.60	19.66	19.66	30.00	24.26	36.00
5745MHz	Pass	4.60	20.92	20.92	30.00	25.52	36.00
5785MHz	Pass	4.60	20.67	20.67	30.00	25.27	36.00
5825MHz	Pass	4.60	20.24	20.24	30.00	24.84	36.00
802.11ac VHT40_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-
5190MHz	Pass	4.60	14.66	14.66	30.00	19.26	36.00
5230MHz	Pass	4.60	16.38	16.38	30.00	20.98	36.00
5755MHz	Pass	4.60	20.61	20.61	30.00	25.21	36.00
5795MHz	Pass	4.60	20.33	20.33	30.00	24.93	36.00
802.11ac VHT80_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-
5210MHz	Pass	4.60	11.29	11.29	30.00	15.89	36.00
5775MHz	Pass	4.60	18.12	18.12	30.00	22.72	36.00

DG = Directional Gain; Port X = Port X output power

**Summary**

Mode	Total Power (dBm)	Total Power (W)	EIRP (dBm)	EIRP (W)
5.15-5.25GHz	-	-	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	24.14	0.25942	31.37	1.37088
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	21.84	0.15276	29.07	0.80724
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	18.30	0.06761	25.53	0.35727
5.725-5.85GHz	-	-	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	24.13	0.25882	31.57	1.43549
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	23.37	0.21727	30.81	1.20504
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	19.53	0.08974	26.97	0.49774



Average Power_Beamforming_Radio1_4T1S

Appendix C.4

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Port 3 (dBm)	Port 4 (dBm)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	7.23	14.18	13.97	14.48	14.47	20.30	28.77	27.53	36.00
5200MHz	Pass	7.23	16.44	15.89	16.86	17.19	22.64	28.77	29.87	36.00
5240MHz	Pass	7.23	18.32	17.76	18.12	18.25	24.14	28.77	31.37	36.00
5745MHz	Pass	7.44	15.61	15.30	15.96	16.28	21.82	28.56	29.26	36.00
5785MHz	Pass	7.44	17.52	17.13	17.97	19.45	24.13	28.56	31.57	36.00
5825MHz	Pass	7.44	16.77	16.38	16.98	18.49	23.25	28.56	30.69	36.00
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	7.23	13.34	12.93	13.66	13.98	19.52	28.77	26.75	36.00
5230MHz	Pass	7.23	15.80	15.18	15.89	16.33	21.84	28.77	29.07	36.00
5755MHz	Pass	7.44	15.76	15.68	16.35	16.72	22.17	28.56	29.61	36.00
5795MHz	Pass	7.44	16.98	17.09	17.38	17.89	23.37	28.56	30.81	36.00
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	7.23	12.11	11.64	12.38	12.89	18.30	28.77	25.53	36.00
5775MHz	Pass	7.44	13.29	13.37	13.41	13.93	19.53	28.56	26.97	36.00

DG = Directional Gain; Port X = Port X output power

**Summary**

Mode	Total Power (dBm)	Total Power (W)	EIRP (dBm)	EIRP (W)
5.15-5.25GHz	-	-	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_8TX	25.86	0.38548	35.38	3.45144
802.11ax HEW40-BF_Nss1,(MCS0)_8TX	22.55	0.17989	32.07	1.61065
802.11ax HEW80-BF_Nss1,(MCS0)_8TX	18.49	0.07063	28.01	0.63241
5.725-5.85GHz	-	-	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_8TX	25.69	0.37068	33.53	2.25424
802.11ax HEW40-BF_Nss1,(MCS0)_8TX	25.99	0.39719	33.83	2.41546
802.11ax HEW80-BF_Nss1,(MCS0)_8TX	24.19	0.26242	32.03	1.59588



Average Power_Beamforming_Radio1_8T1S

Appendix C.5

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Port 3 (dBm)	Port 4 (dBm)	Port 5 (dBm)	Port 6 (dBm)	Port 7 (dBm)	Port 8 (dBm)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
802.11ax HEW20-BF_Nss1,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	9.52	15.26	15.03	15.3	14.84	14.91	14.51	15.18	14.79	24.02	26.48	33.54	36.00
5200MHz	Pass	9.52	17.04	16.57	17.22	16.76	16.87	16.03	16.94	16.95	25.84	26.48	35.36	36.00
5240MHz	Pass	9.52	17.05	16.71	17.27	16.77	16.68	16.14	16.88	17.06	25.86	26.48	35.38	36.00
5745MHz	Pass	7.84	16.61	15.91	15.97	16.98	15.99	15.99	16.05	17.53	25.45	28.16	33.29	36.00
5785MHz	Pass	7.84	14.74	14.96	15.36	15.16	14.12	14.89	14.67	15.85	24.03	28.16	31.87	36.00
5825MHz	Pass	7.84	16.63	16.59	17.17	17.24	15.9	16.48	16.14	16.97	25.69	28.16	33.53	36.00
802.11ax HEW40-BF_Nss1,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	9.52	11.51	11.14	11.69	11.26	11.28	10.84	11.23	11.44	20.34	26.48	29.86	36.00
5230MHz	Pass	9.52	13.74	13.46	13.84	13.41	13.38	12.98	13.55	13.74	22.55	26.48	32.07	36.00
5755MHz	Pass	7.84	16.27	16.06	16.21	16.53	15.16	16.18	15.58	17.44	25.26	28.16	33.10	36.00
5795MHz	Pass	7.84	16.83	16.93	17.19	17.32	15.91	17	16.39	17.86	25.99	28.16	33.83	36.00
802.11ax HEW80-BF_Nss1,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	9.52	9.38	9.57	9.68	9.23	9.3	8.98	9.54	9.94	18.49	26.48	28.01	36.00
5775MHz	Pass	7.84	15.04	15.08	15.36	15.3	14.31	15.27	14.74	16	24.19	28.16	32.03	36.00

DG = Directional Gain; Port X = Port X output power

**Summary**

Mode	PD (dBm/RBW)	EIRP PD (dBm/RBW)
5.15-5.25GHz	-	-
802.11a_Nss1,(6Mbps)_4TX	14.25	21.48
802.11n HT20_Nss1,(MCS0)_4TX	14.09	21.32
802.11n HT40_Nss1,(MCS0)_4TX	6.83	14.06
802.11ac VHT20_Nss1,(MCS0)_4TX	12.04	19.27
802.11ac VHT40_Nss1,(MCS0)_4TX	6.83	14.06
802.11ac VHT80_Nss1,(MCS0)_4TX	-0.17	7.06
802.11ax HEW20_Nss1,(MCS0)_4TX	11.91	19.14
802.11ax HEW40_Nss1,(MCS0)_4TX	6.89	14.12
802.11ax HEW80_Nss1,(MCS0)_4TX	0.43	7.66
5.725-5.85GHz	-	-
802.11a_Nss1,(6Mbps)_4TX	11.06	18.50
802.11n HT20_Nss1,(MCS0)_4TX	11.73	19.17
802.11n HT40_Nss1,(MCS0)_4TX	7.29	14.73
802.11ac VHT20_Nss1,(MCS0)_4TX	10.96	18.40
802.11ac VHT40_Nss1,(MCS0)_4TX	7.33	14.77
802.11ac VHT80_Nss1,(MCS0)_4TX	0.11	7.55
802.11ax HEW20_Nss1,(MCS0)_4TX	10.69	18.13
802.11ax HEW40_Nss1,(MCS0)_4TX	7.13	14.57
802.11ax HEW80_Nss1,(MCS0)_4TX	0.73	8.17

RBW = 500kHz for 5.725-5.85GHz band / 1MHz for other band;



Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	Port 3 (dBm/RBW)	Port 4 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)	EIRP PD (dBm/RBW)	EIRP PD Limit (dBm/RBW)
802.11a_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	7.23	5.44	5.08	5.41	5.39	11.15	15.77	18.38	23.00
5200MHz	Pass	7.23	7.32	6.49	7.34	7.64	13.03	15.77	20.26	23.00
5240MHz	Pass	7.23	8.89	8.02	8.54	8.78	14.25	15.77	21.48	23.00
5745MHz	Pass	7.44	5.29	5.40	5.69	6.06	11.06	28.56	18.50	36.00
5785MHz	Pass	7.44	3.26	3.17	4.26	4.04	8.90	28.56	16.34	36.00
5825MHz	Pass	7.44	3.81	4.12	4.31	4.32	9.54	28.56	16.98	36.00
802.11n HT20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	7.23	4.43	3.89	4.44	4.60	10.22	15.77	17.45	23.00
5200MHz	Pass	7.23	5.43	5.05	5.82	6.10	11.28	15.77	18.51	23.00
5240MHz	Pass	7.23	8.50	7.83	8.51	8.16	14.09	15.77	21.32	23.00
5745MHz	Pass	7.44	4.45	3.30	3.85	3.98	9.37	28.56	16.81	36.00
5785MHz	Pass	7.44	5.87	6.02	5.75	7.07	11.73	28.56	19.17	36.00
5825MHz	Pass	7.44	4.93	5.22	5.20	6.61	10.85	28.56	18.29	36.00
802.11n HT40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	7.23	-1.10	-1.51	-0.97	-0.81	4.53	15.77	11.76	23.00
5230MHz	Pass	7.23	1.34	0.44	1.08	1.58	6.83	15.77	14.06	23.00
5755MHz	Pass	7.44	0.66	0.17	0.87	1.02	6.41	28.56	13.85	36.00
5795MHz	Pass	7.44	1.71	1.84	1.95	1.83	7.29	28.56	14.73	36.00
802.11ac VHT20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	7.23	2.74	2.06	2.69	2.67	8.32	15.77	15.55	23.00
5200MHz	Pass	7.23	5.17	4.16	4.90	5.23	10.73	15.77	17.96	23.00
5240MHz	Pass	7.23	6.47	5.87	6.38	6.30	12.04	15.77	19.27	23.00
5745MHz	Pass	7.44	3.37	2.89	3.28	3.88	8.87	28.56	16.31	36.00
5785MHz	Pass	7.44	4.88	4.78	5.27	6.34	10.96	28.56	18.40	36.00
5825MHz	Pass	7.44	4.21	3.97	4.89	5.43	10.08	28.56	17.52	36.00
802.11ac VHT40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	7.23	-1.08	-1.78	-1.14	-0.91	4.60	15.77	11.83	23.00
5230MHz	Pass	7.23	1.33	0.47	1.04	1.45	6.83	15.77	14.06	23.00
5755MHz	Pass	7.44	0.49	0.81	1.07	1.17	6.27	28.56	13.71	36.00
5795MHz	Pass	7.44	1.83	1.96	1.99	1.81	7.33	28.56	14.77	36.00
802.11ac VHT80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	7.23	-5.78	-6.60	-5.84	-5.41	-0.17	15.77	7.06	23.00
5775MHz	Pass	7.44	-5.69	-5.39	-4.94	-5.20	0.11	28.56	7.55	36.00
802.11ax HEW20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	7.23	2.41	2.04	2.42	2.63	8.18	15.77	15.41	23.00
5200MHz	Pass	7.23	4.85	4.08	4.91	5.30	10.63	15.77	17.86	23.00
5240MHz	Pass	7.23	6.41	5.49	6.35	6.08	11.91	15.77	19.14	23.00
5745MHz	Pass	7.44	3.20	2.79	3.11	3.70	8.50	28.56	15.94	36.00
5785MHz	Pass	7.44	4.89	4.21	5.28	6.10	10.69	28.56	18.13	36.00
5825MHz	Pass	7.44	4.09	3.56	4.61	5.19	10.04	28.56	17.48	36.00
802.11ax HEW40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	7.23	-1.24	-1.69	-1.15	-0.84	4.61	15.77	11.84	23.00
5230MHz	Pass	7.23	1.37	0.47	1.04	1.62	6.89	15.77	14.12	23.00
5755MHz	Pass	7.44	0.22	0.24	0.99	1.01	6.29	28.56	13.73	36.00
5795MHz	Pass	7.44	1.60	1.52	1.75	2.02	7.13	28.56	14.57	36.00
802.11ax HEW80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	7.23	-5.36	-5.92	-5.21	-4.82	0.43	15.77	7.66	23.00
5775MHz	Pass	7.44	-4.83	-5.06	-4.61	-4.65	0.73	28.56	8.17	36.00

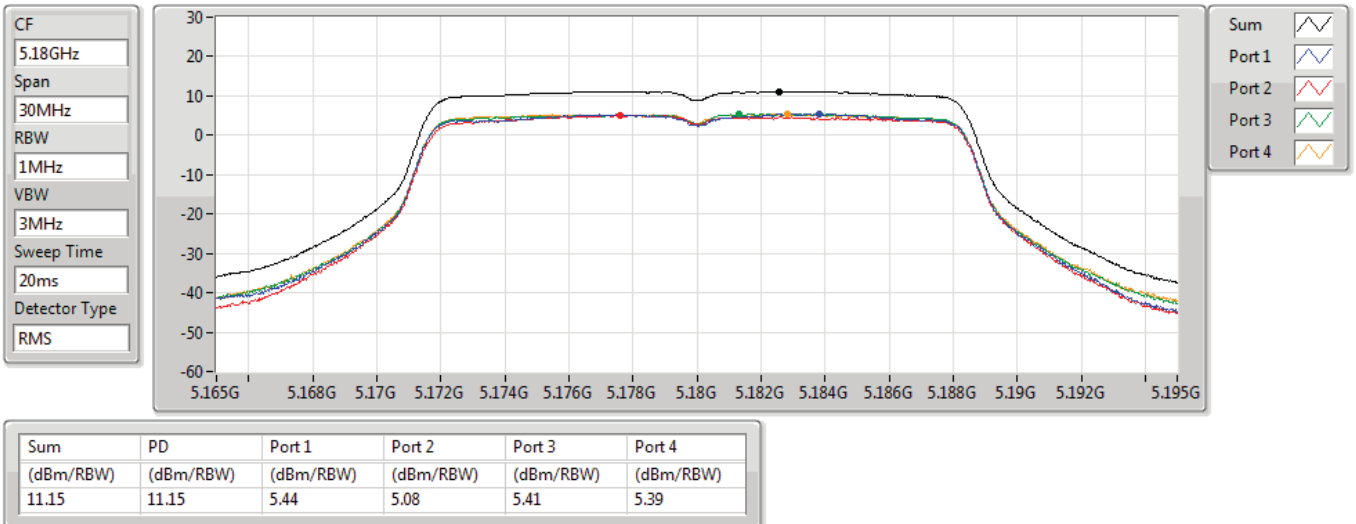
DG = Directional Gain; RBW = 500kHz for 5.725-5.85GHz band / 1MHz for other band;
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; Port X = Port X Power Density;

802.11a_Nss1,(6Mbps)_4TX

PSD

5180MHz

23/02/2021

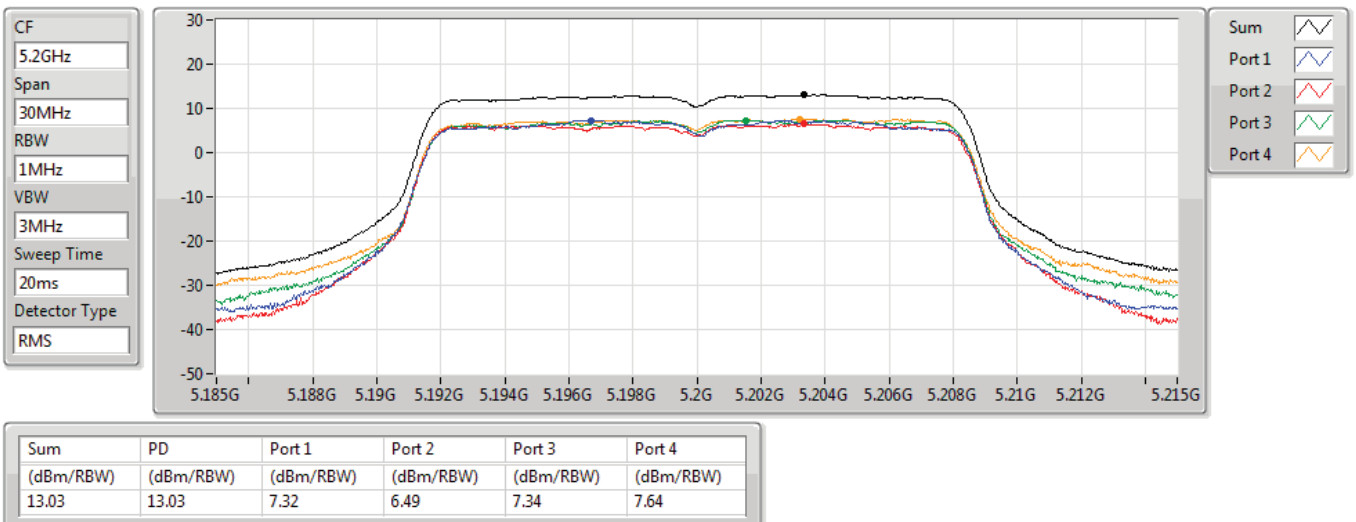


802.11a_Nss1,(6Mbps)_4TX

PSD

5200MHz

09/03/2021

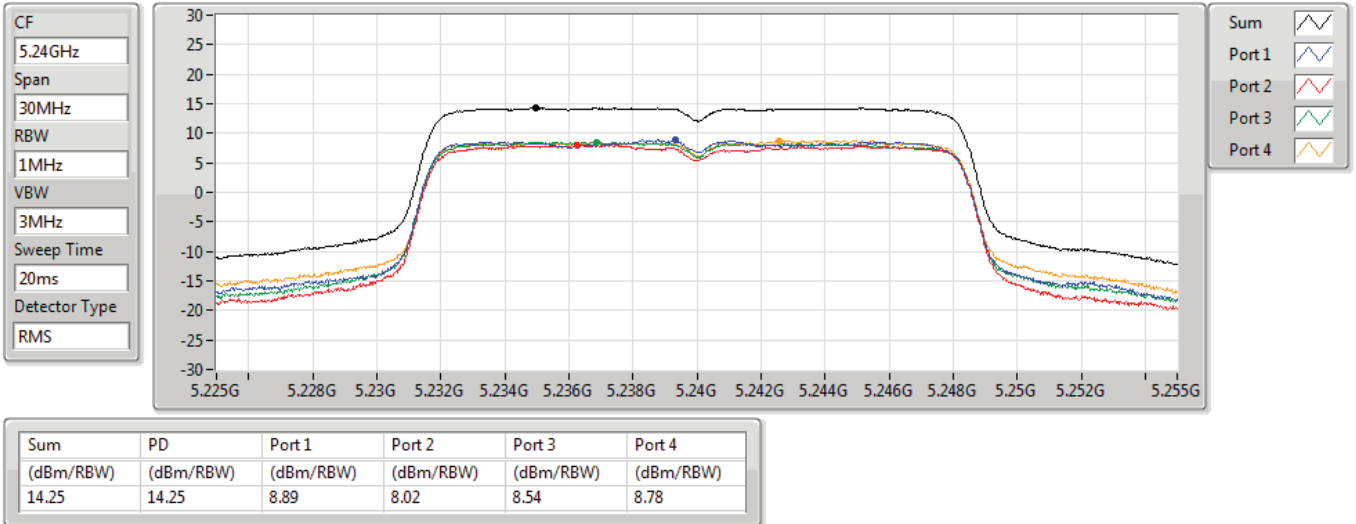


802.11a_Nss1,(6Mbps)_4TX

PSD

5240MHz

09/03/2021

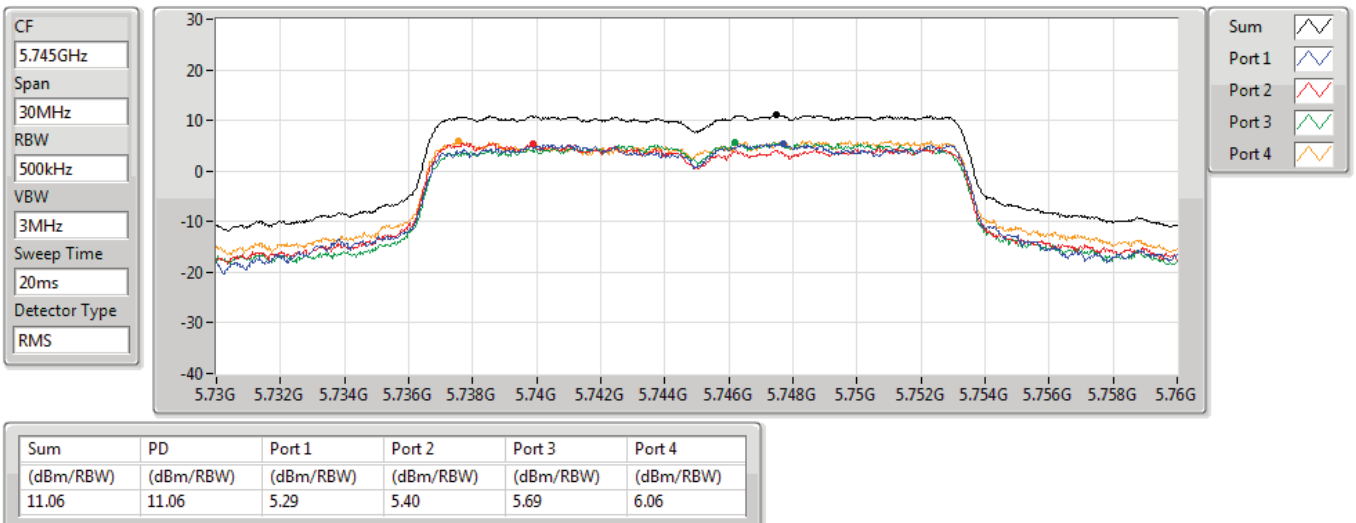


802.11a_Nss1,(6Mbps)_4TX

PSD

5745MHz

23/02/2021

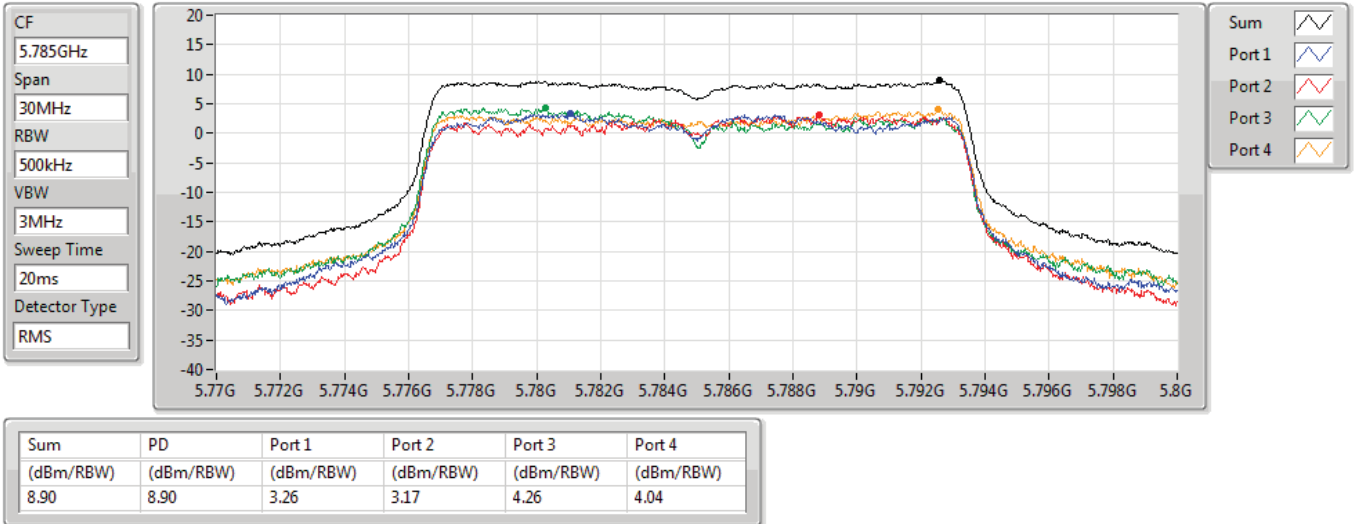


802.11a_Nss1,(6Mbps)_4TX

PSD

5785MHz

23/02/2021

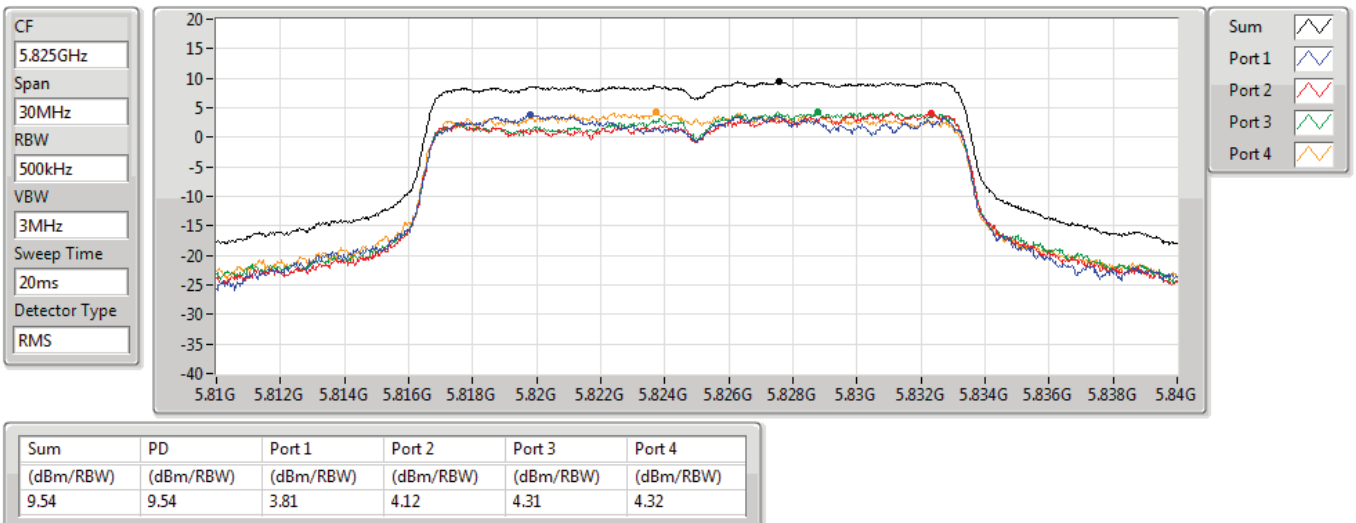


802.11a_Nss1,(6Mbps)_4TX

PSD

5825MHz

23/02/2021

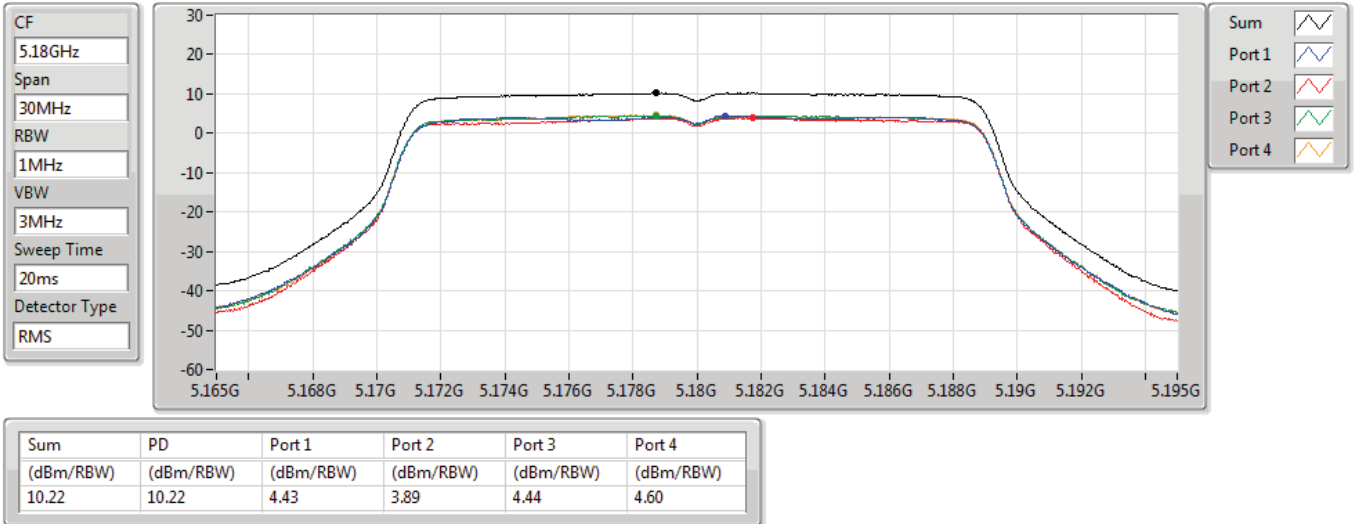


802.11n HT20_Nss1,(MCS0)_4TX

PSD

5180MHz

23/02/2021

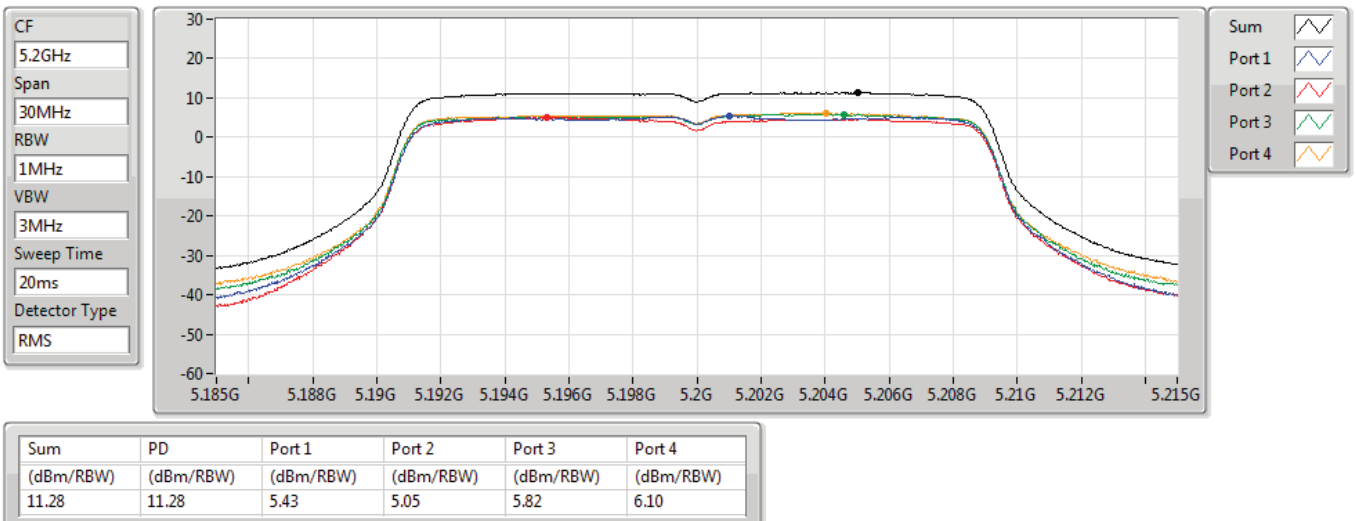


802.11n HT20_Nss1,(MCS0)_4TX

PSD

5200MHz

23/02/2021

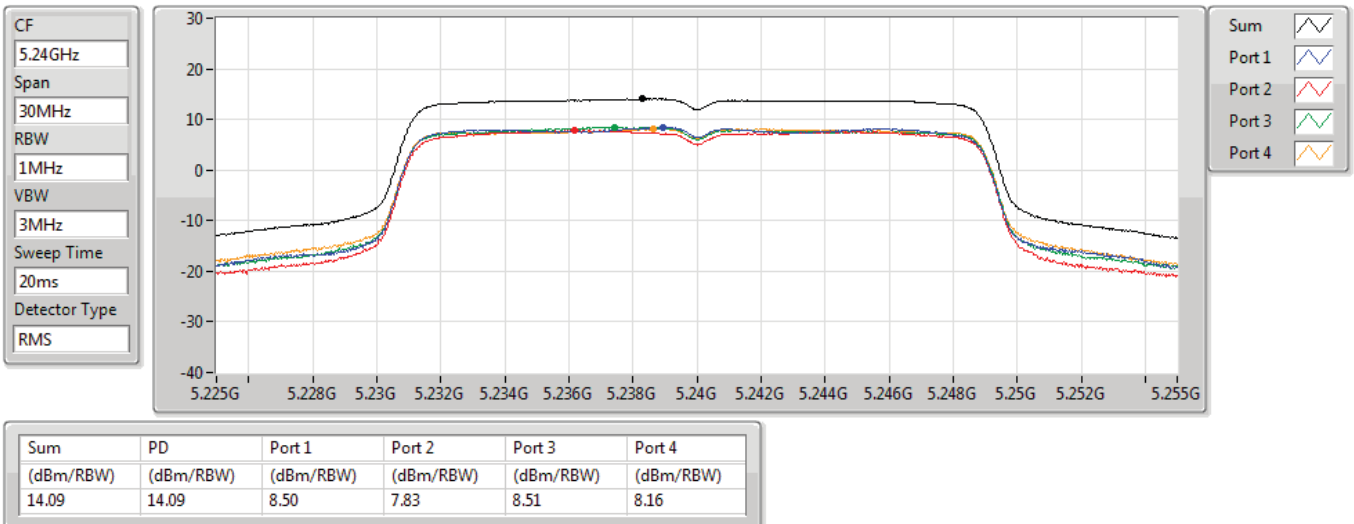


802.11n HT20_Nss1,(MCS0)_4TX

PSD

5240MHz

10/03/2021

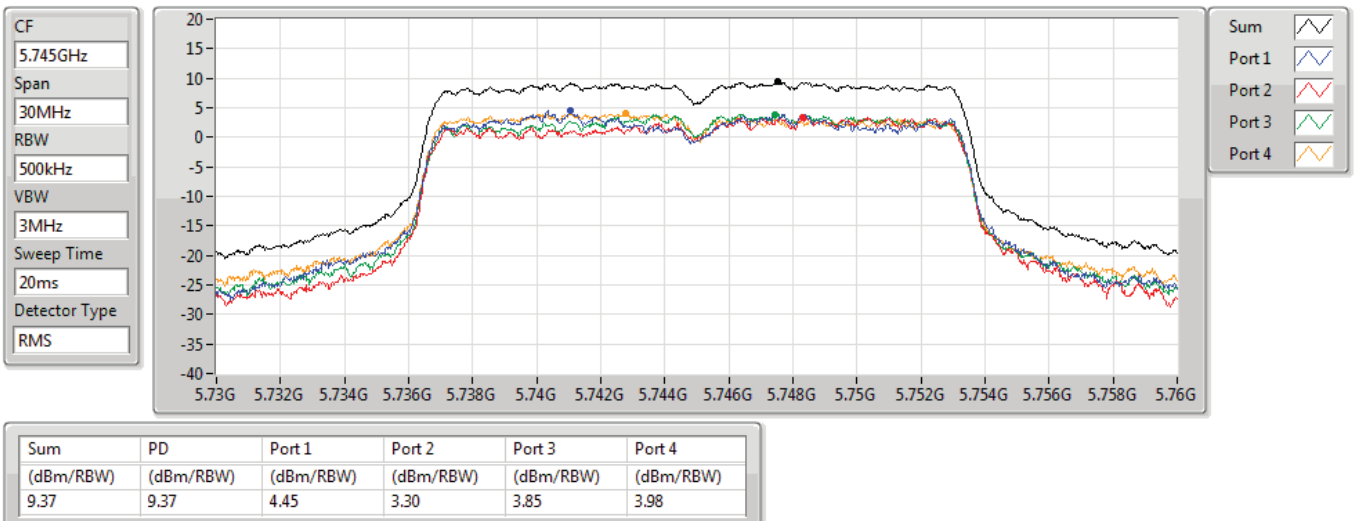


802.11n HT20_Nss1,(MCS0)_4TX

PSD

5745MHz

23/02/2021

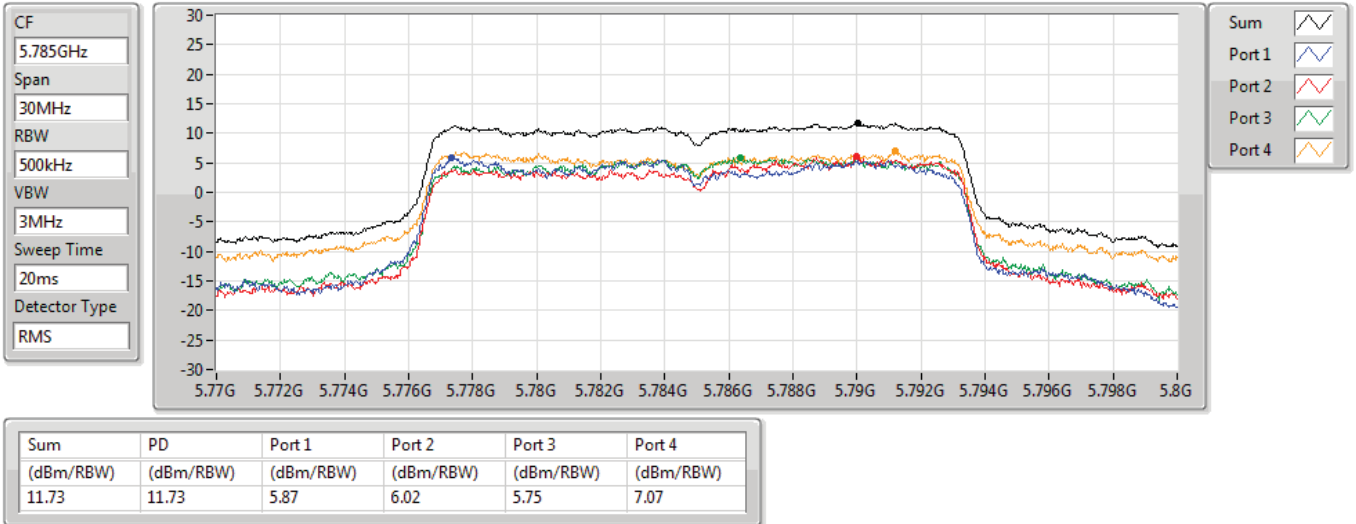


802.11n HT20_Nss1,(MCS0)_4TX

PSD

5785MHz

23/02/2021

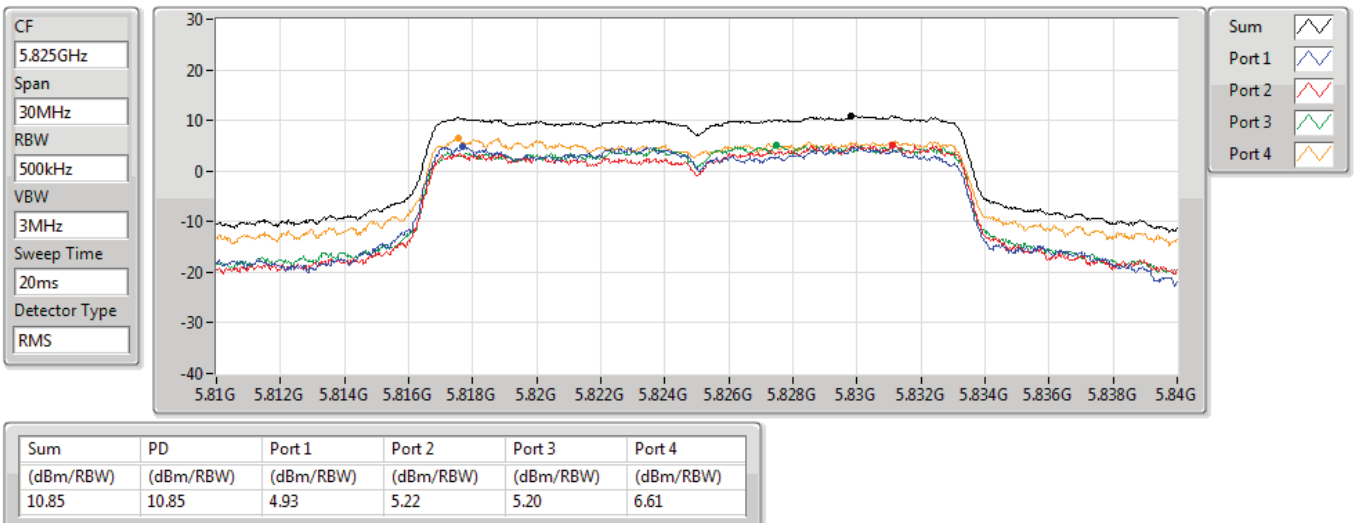


802.11n HT20_Nss1,(MCS0)_4TX

PSD

5825MHz

23/02/2021

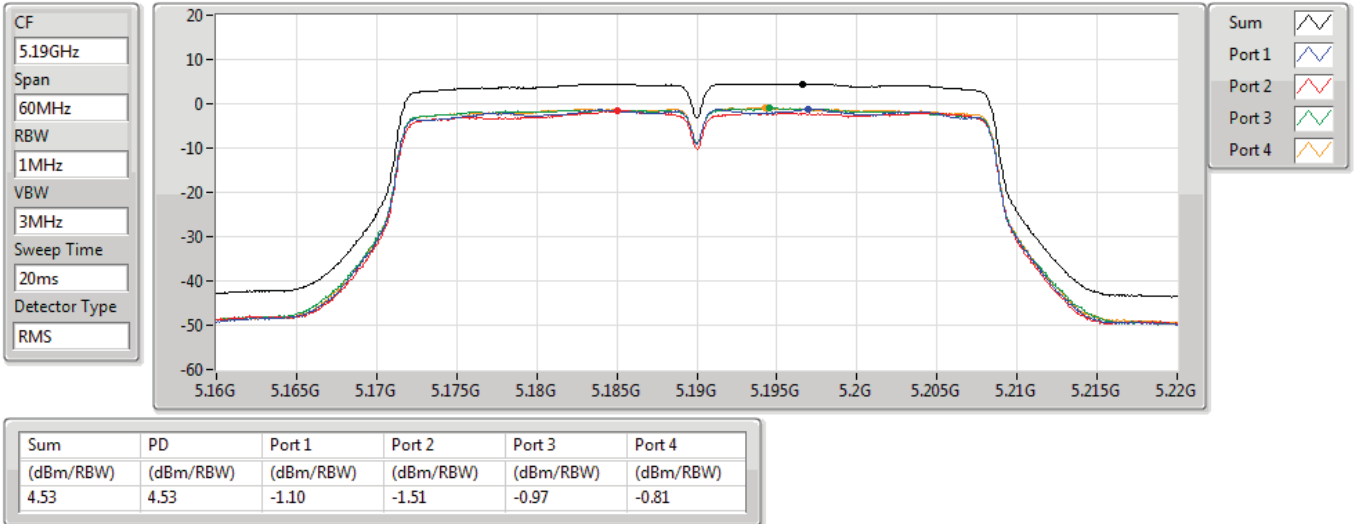


802.11n HT40_Nss1,(MCS0)_4TX

PSD

5190MHz

23/02/2021

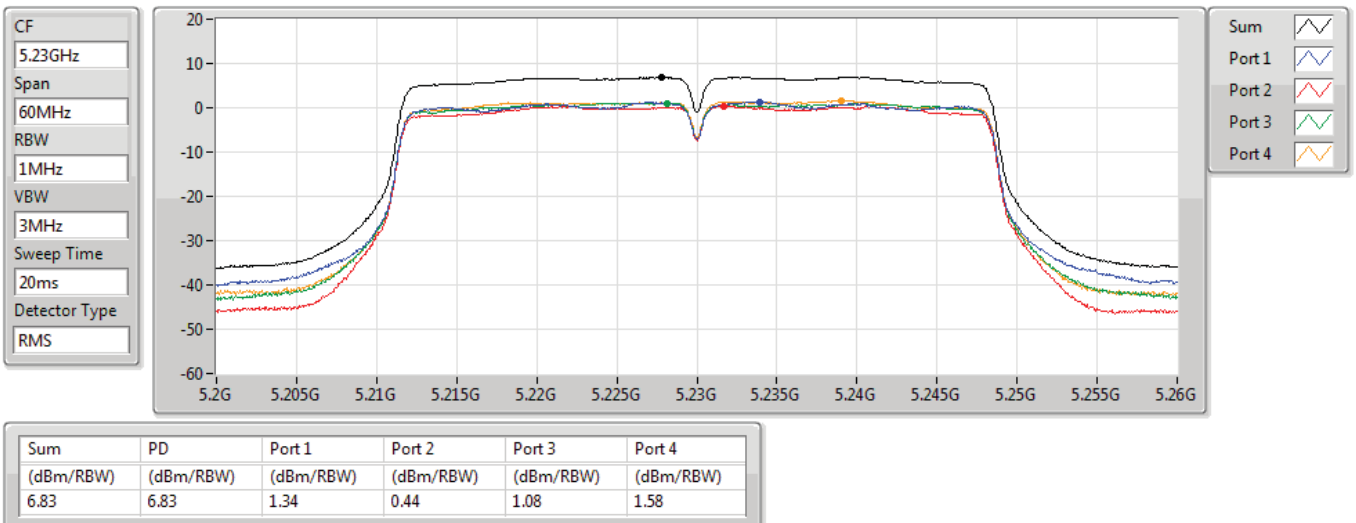


802.11n HT40_Nss1,(MCS0)_4TX

PSD

5230MHz

23/02/2021

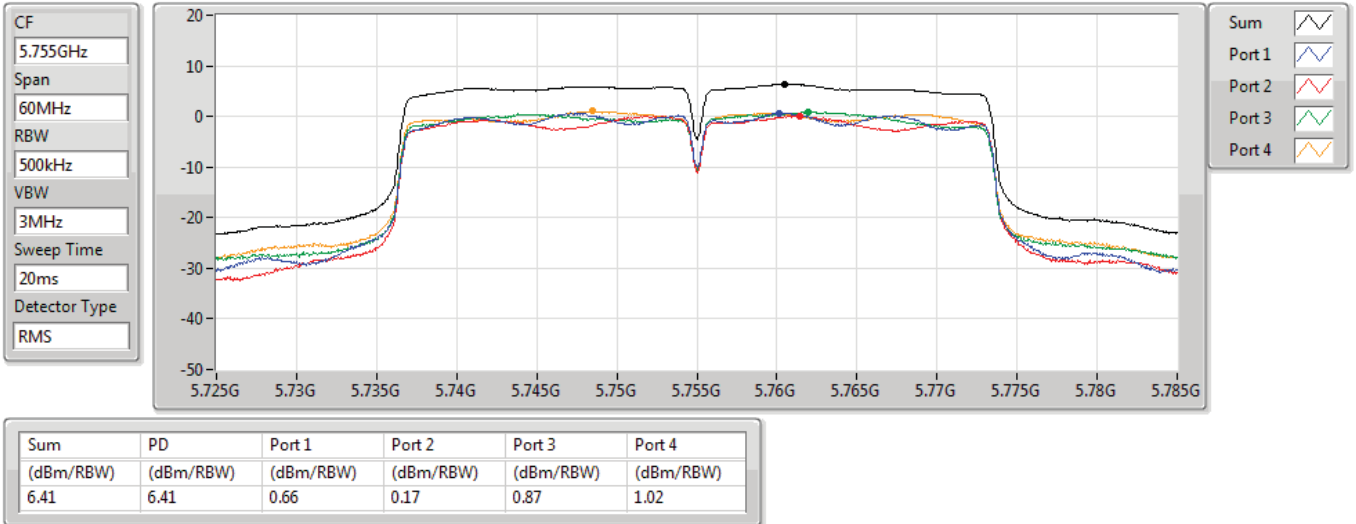


802.11n HT40_Nss1,(MCS0)_4TX

PSD

5755MHz

23/02/2021

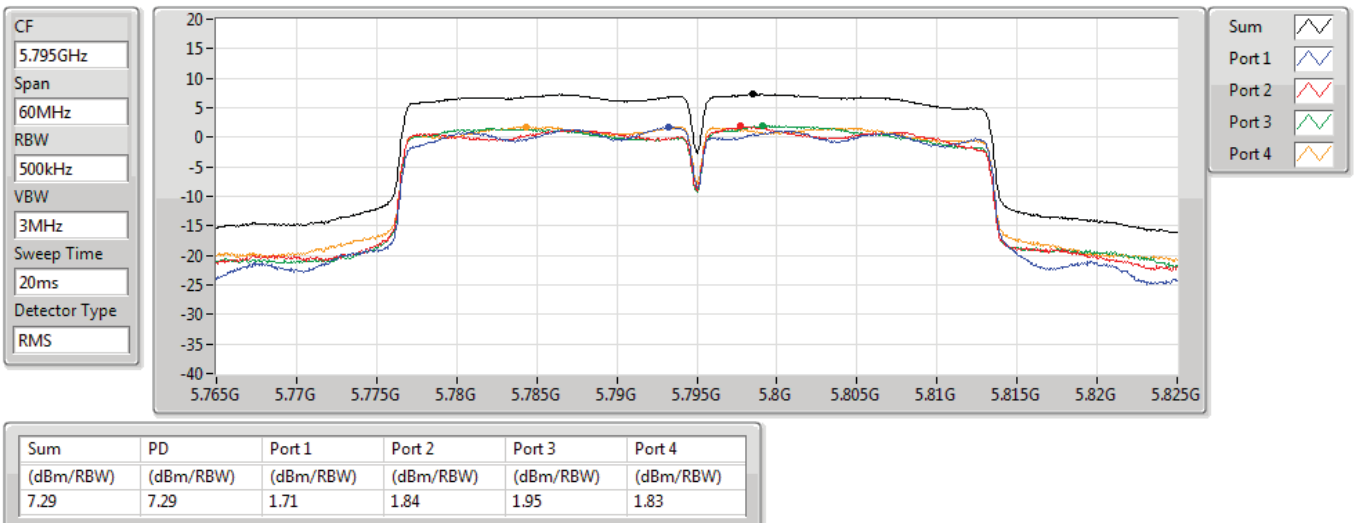


802.11n HT40_Nss1,(MCS0)_4TX

PSD

5795MHz

23/02/2021

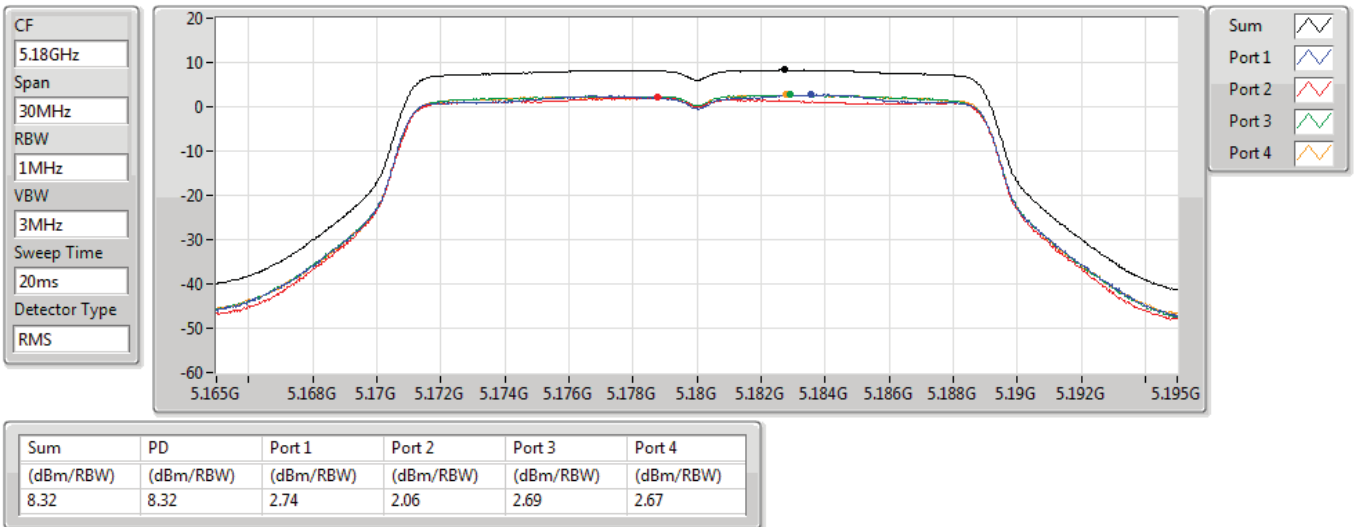


802.11ac VHT20_Nss1,(MCS0)_4TX

PSD

5180MHz

23/02/2021

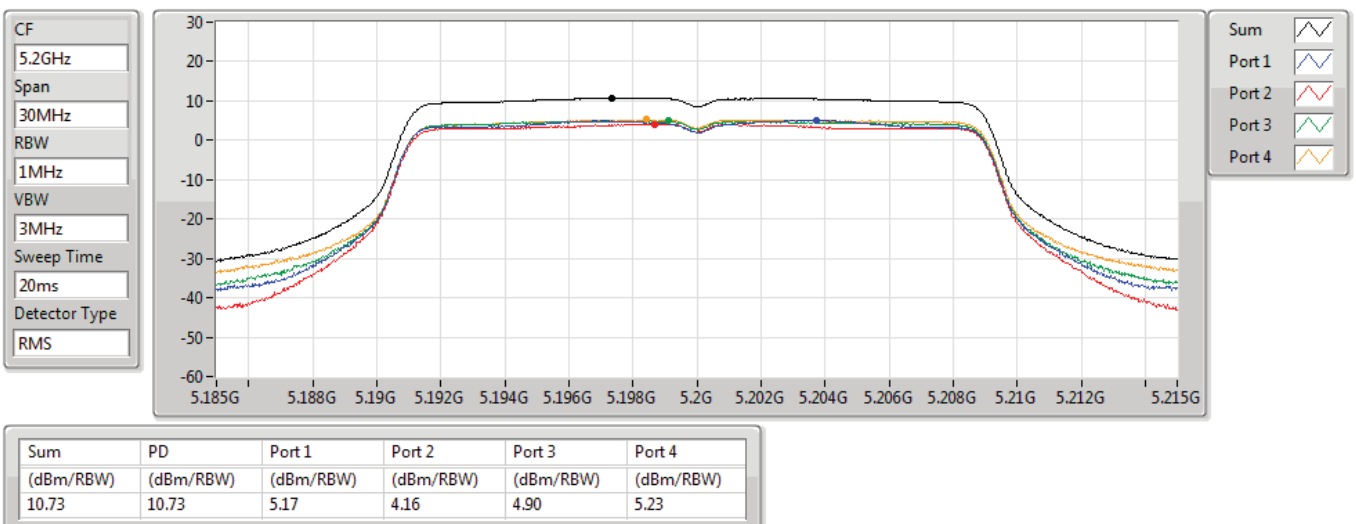


802.11ac VHT20_Nss1,(MCS0)_4TX

PSD

5200MHz

23/02/2021

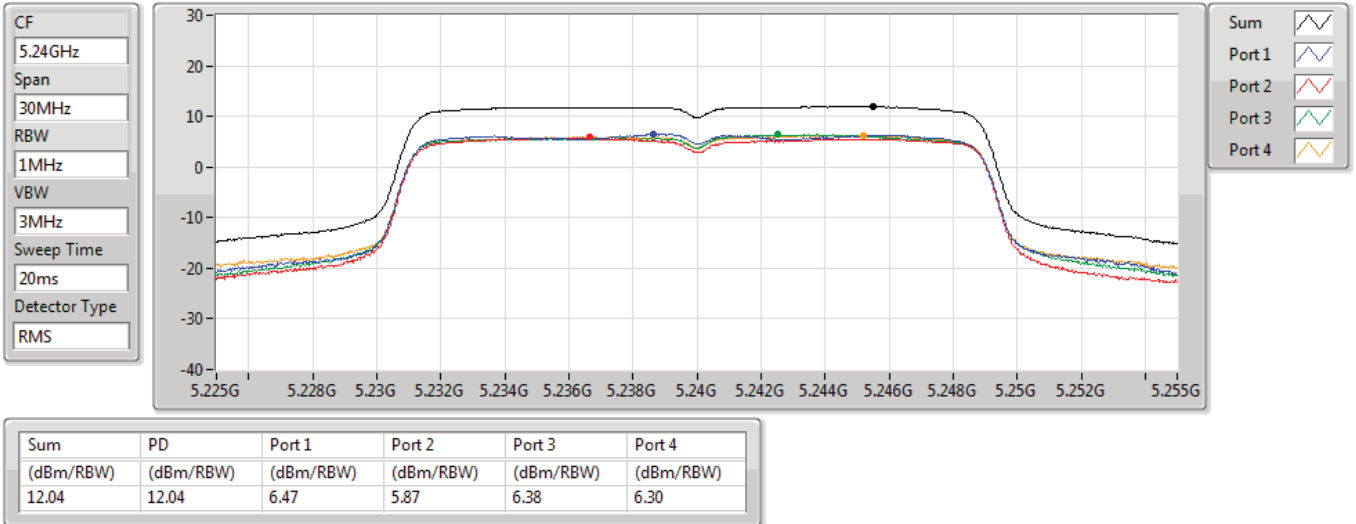


802.11ac VHT20_Nss1,(MCS0)_4TX

PSD

5240MHz

10/03/2021

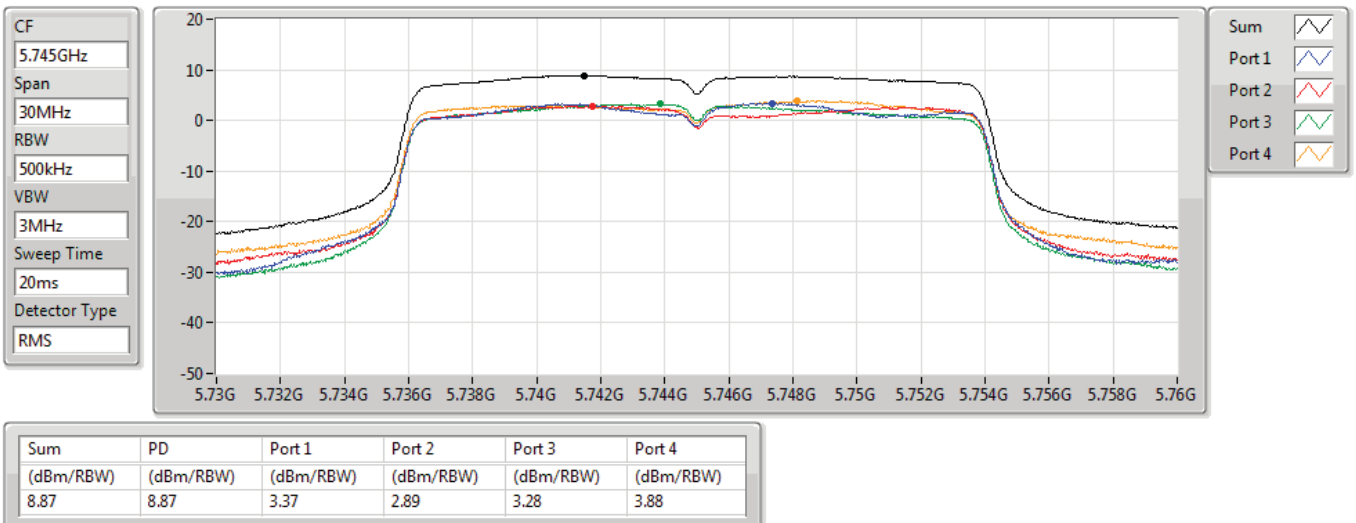


802.11ac VHT20_Nss1,(MCS0)_4TX

PSD

5745MHz

23/02/2021

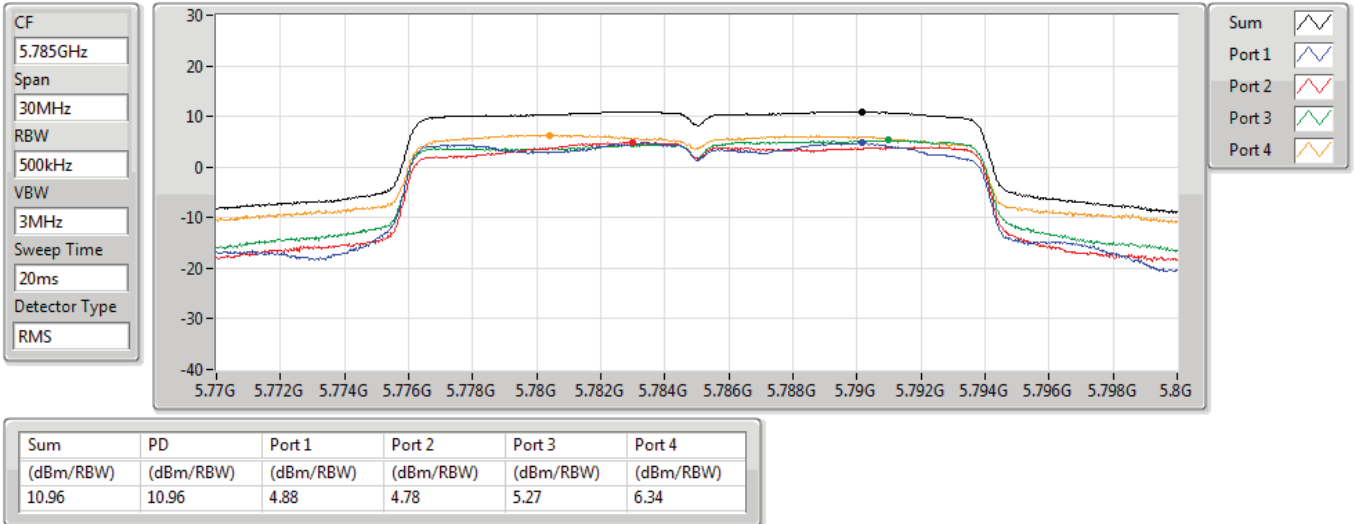


802.11ac VHT20_Nss1,(MCS0)_4TX

PSD

5785MHz

23/02/2021

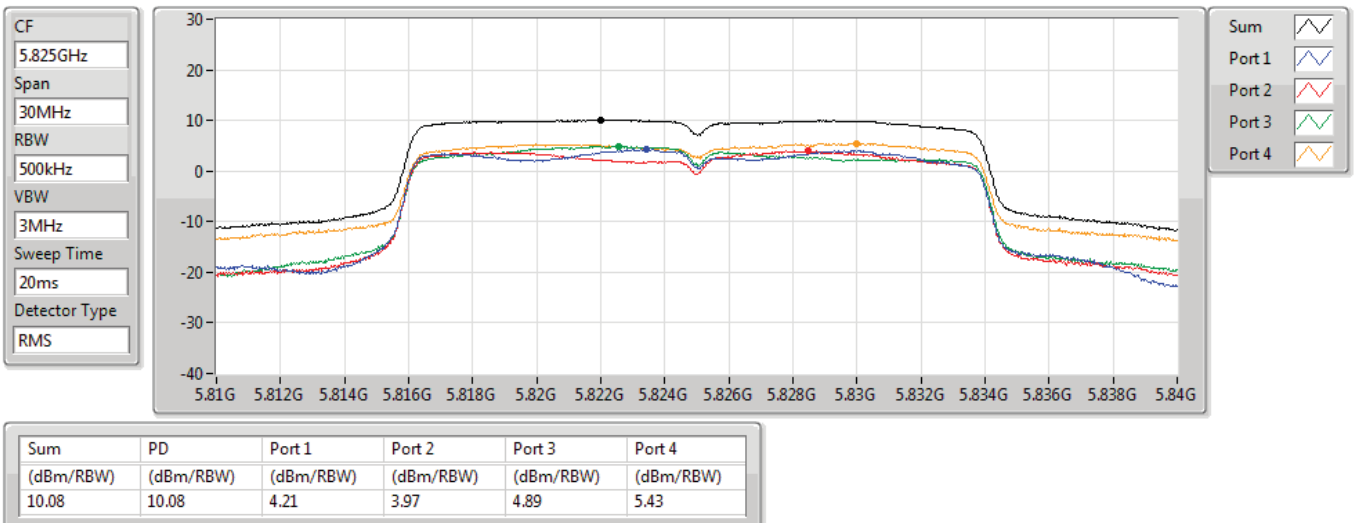


802.11ac VHT20_Nss1,(MCS0)_4TX

PSD

5825MHz

23/02/2021

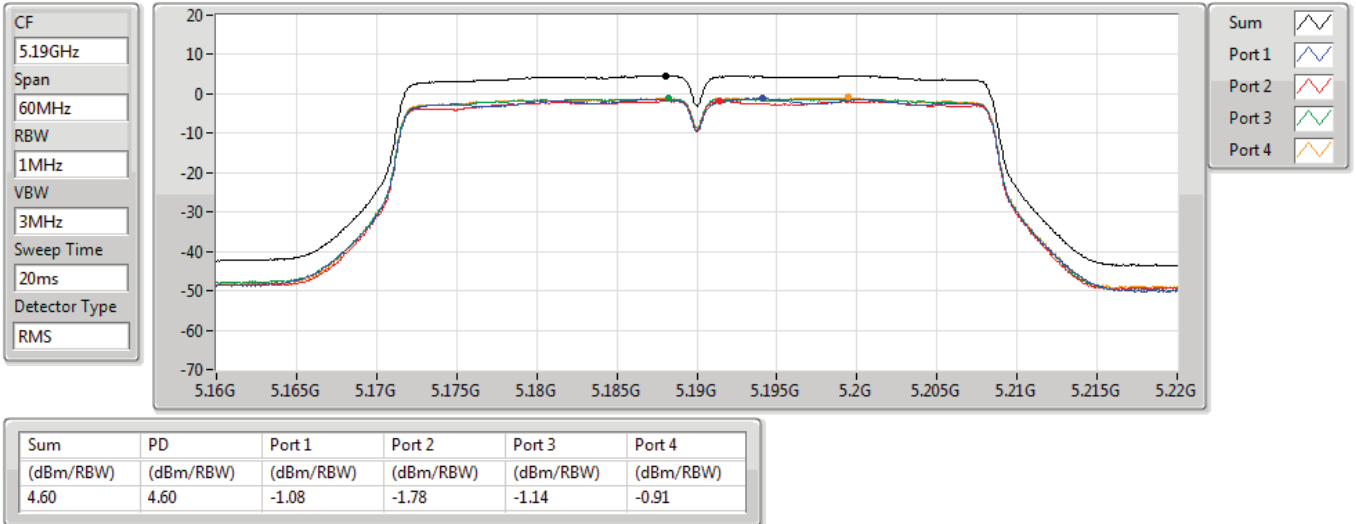


802.11ac VHT40_Nss1,(MCS0)_4TX

PSD

5190MHz

23/02/2021

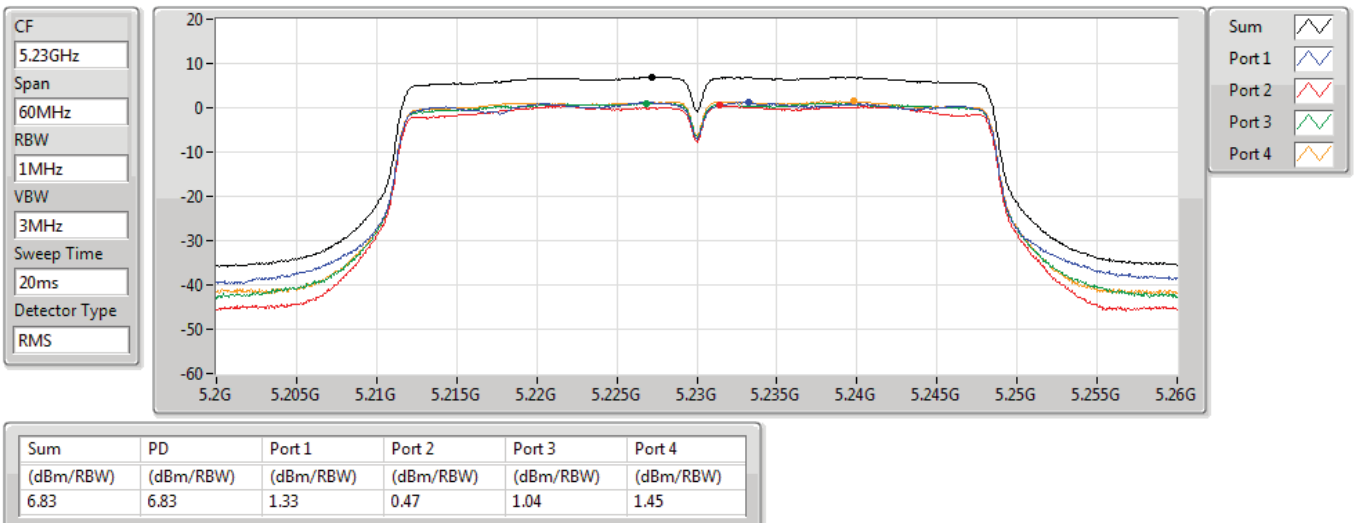


802.11ac VHT40_Nss1,(MCS0)_4TX

PSD

5230MHz

23/02/2021

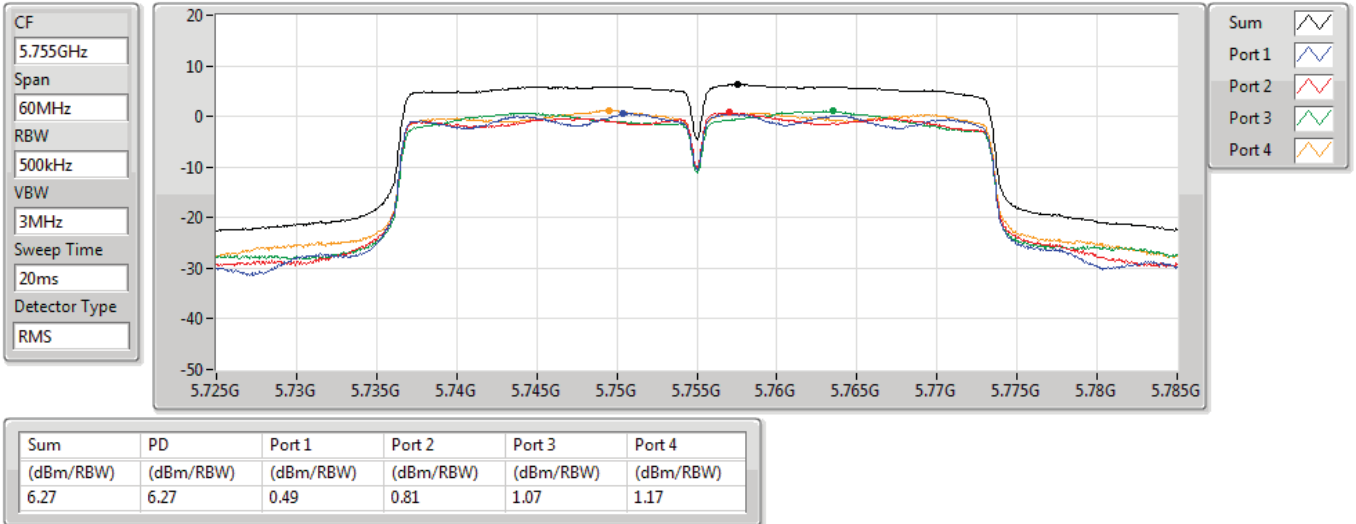


802.11ac VHT40_Nss1,(MCS0)_4TX

PSD

5755MHz

23/02/2021

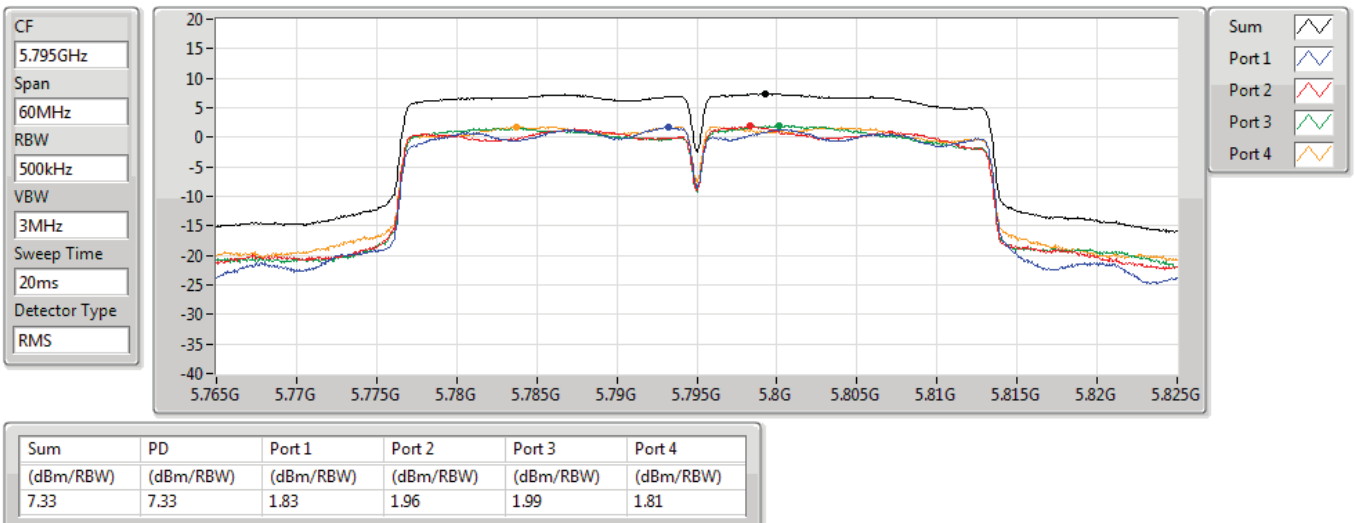


802.11ac VHT40_Nss1,(MCS0)_4TX

PSD

5795MHz

23/02/2021

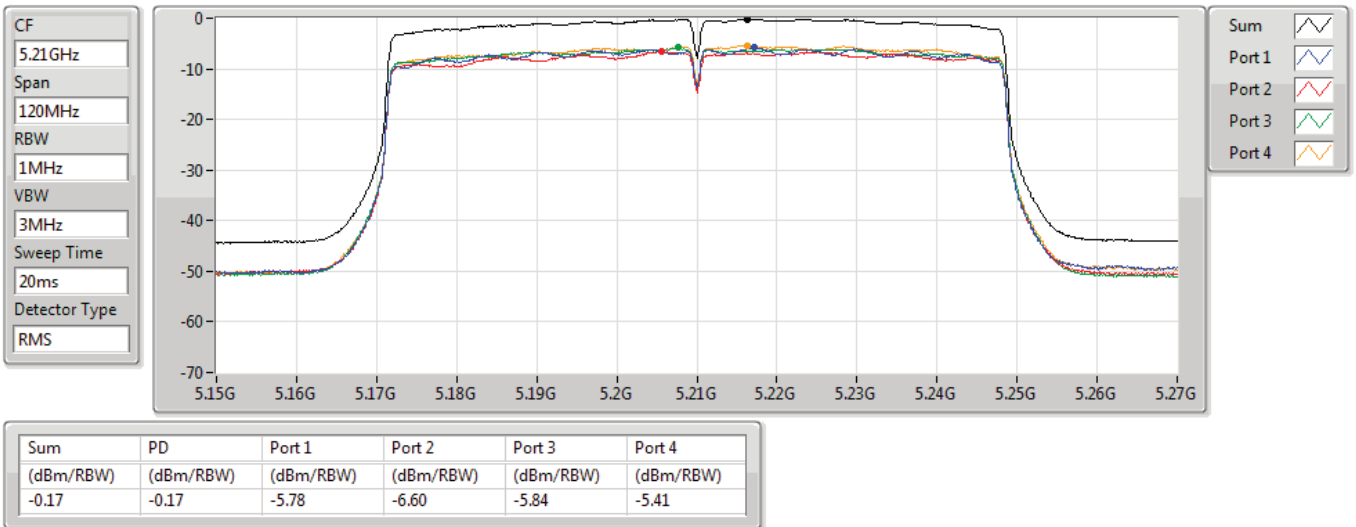


802.11ac VHT80_Nss1,(MCS0)_4TX

PSD

5210MHz

23/02/2021

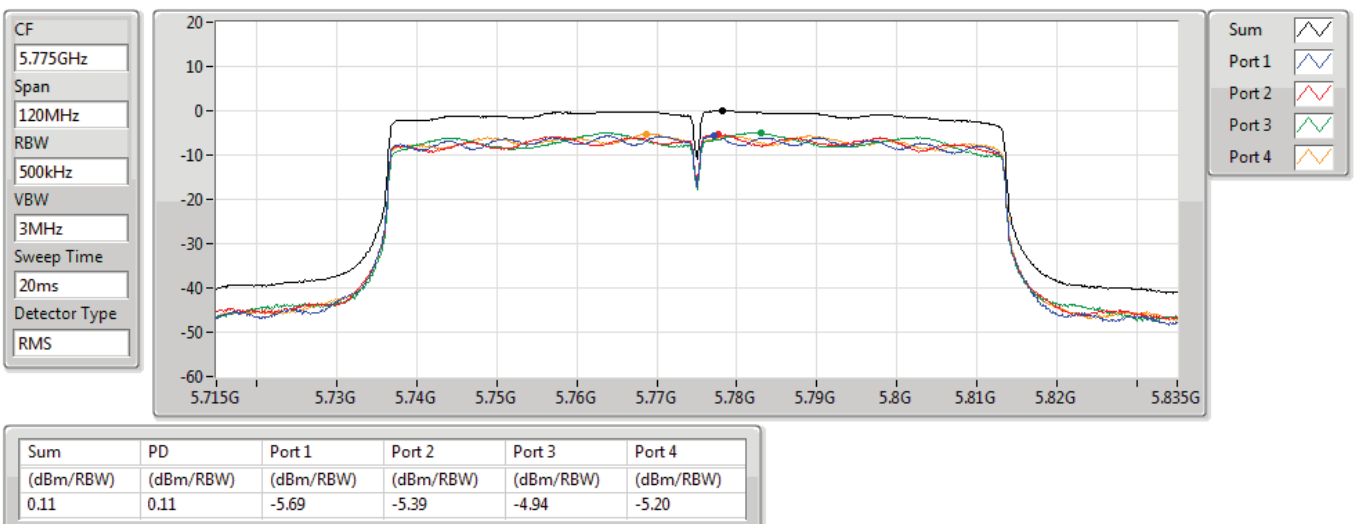


802.11ac VHT80_Nss1,(MCS0)_4TX

PSD

5775MHz

23/02/2021

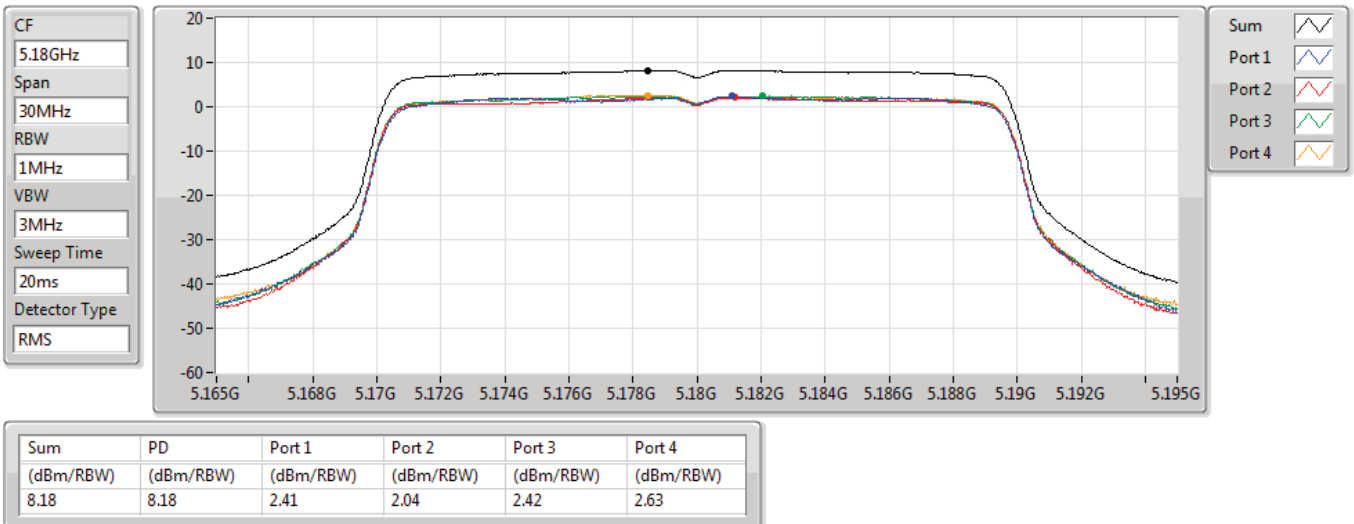


802.11ax HEW20_Nss1,(MCS0)_4TX

PSD

5180MHz

23/02/2021

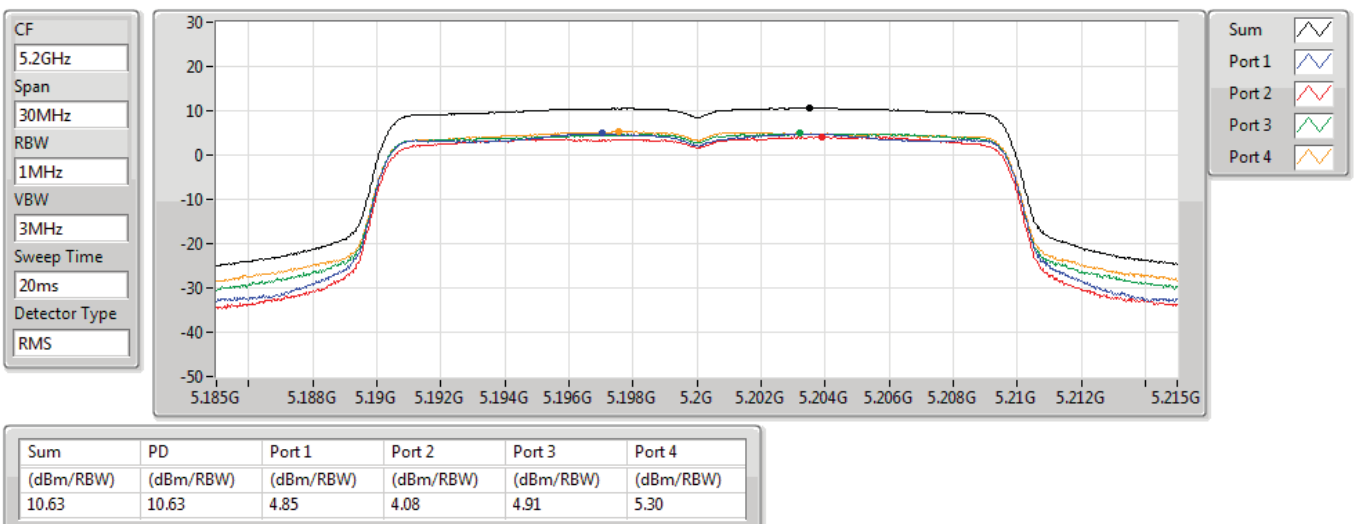


802.11ax HEW20_Nss1,(MCS0)_4TX

PSD

5200MHz

23/02/2021

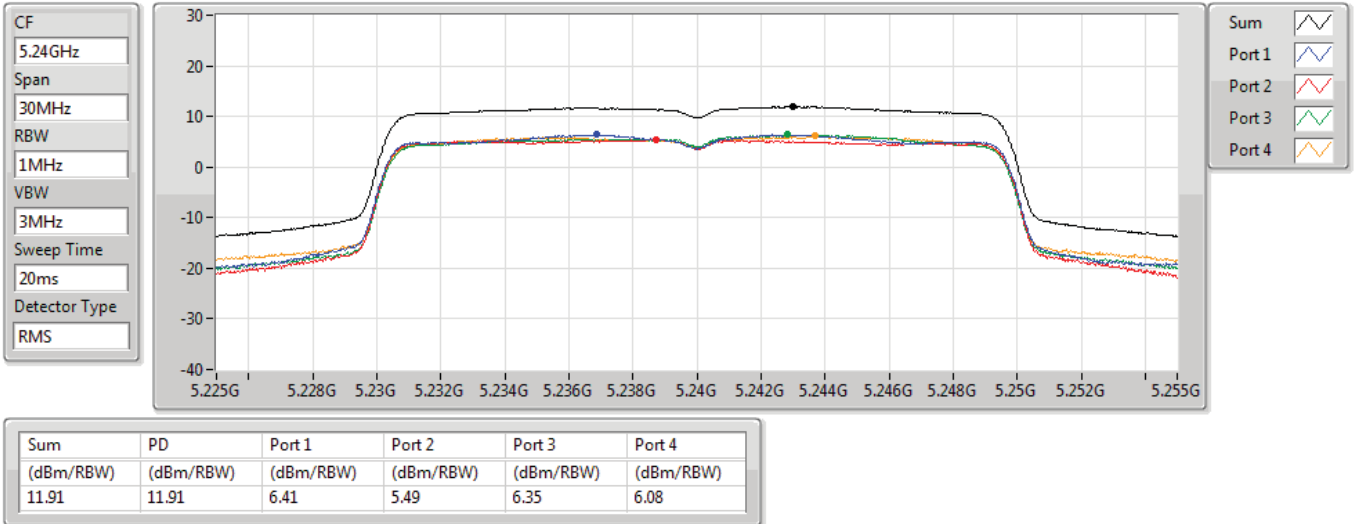


802.11ax HEW20_Nss1,(MCS0)_4TX

PSD

5240MHz

10/03/2021

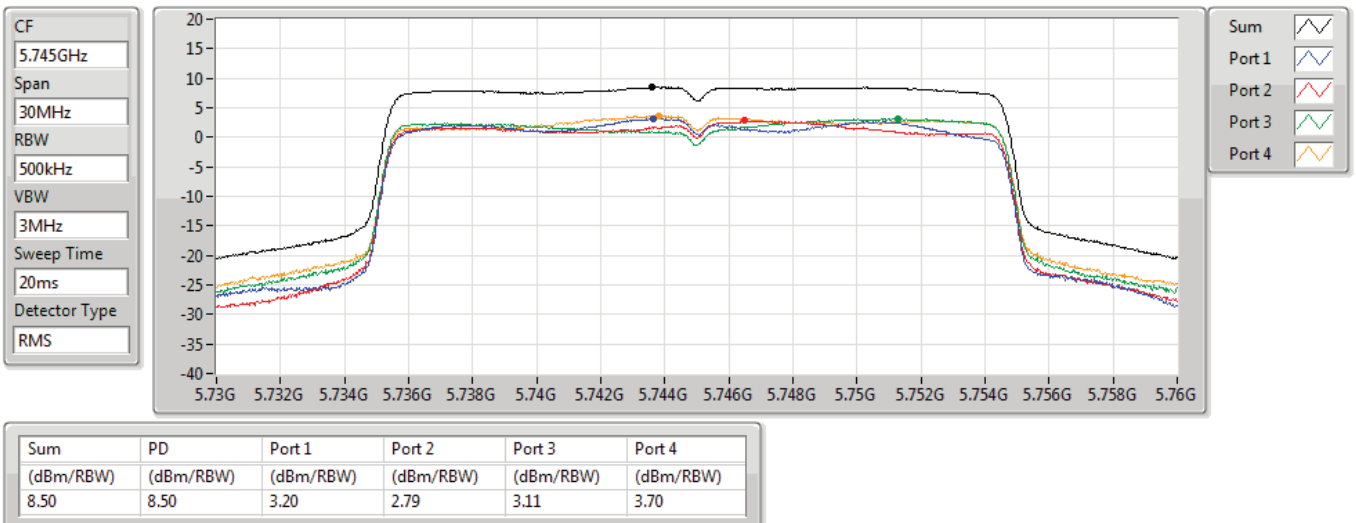


802.11ax HEW20_Nss1,(MCS0)_4TX

PSD

5745MHz

23/02/2021

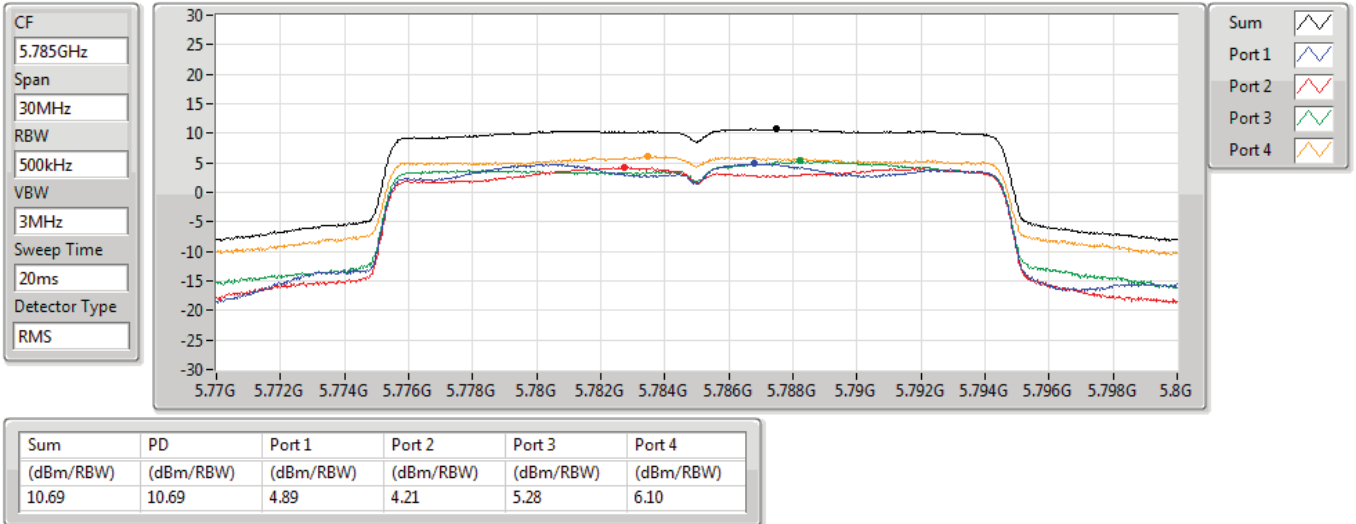


802.11ax HEW20_Nss1,(MCS0)_4TX

PSD

5785MHz

23/02/2021

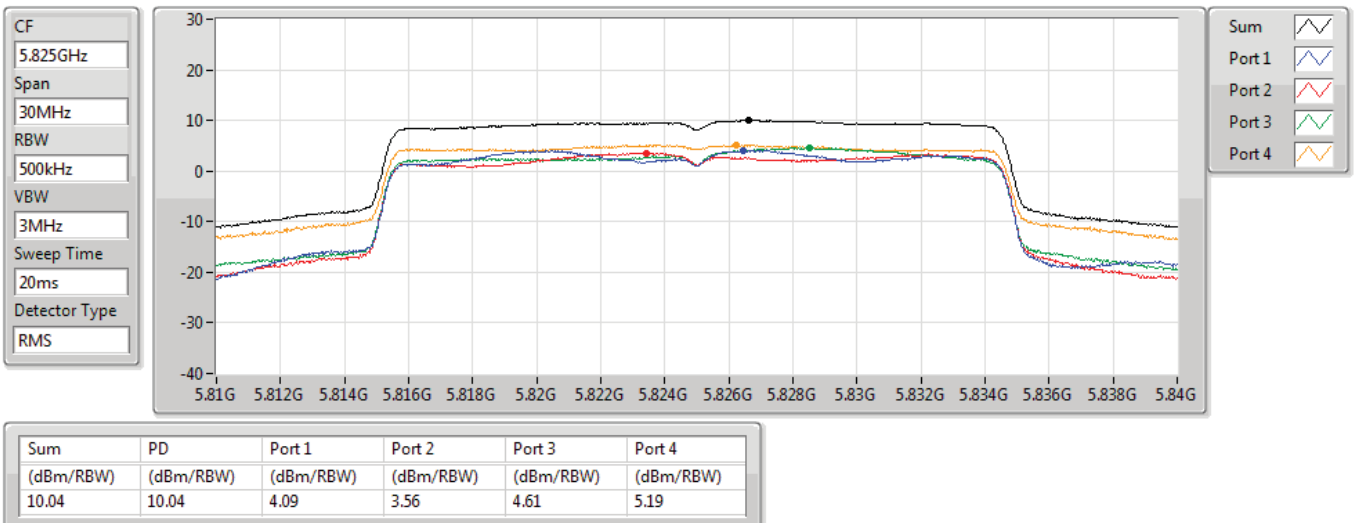


802.11ax HEW20_Nss1,(MCS0)_4TX

PSD

5825MHz

23/02/2021

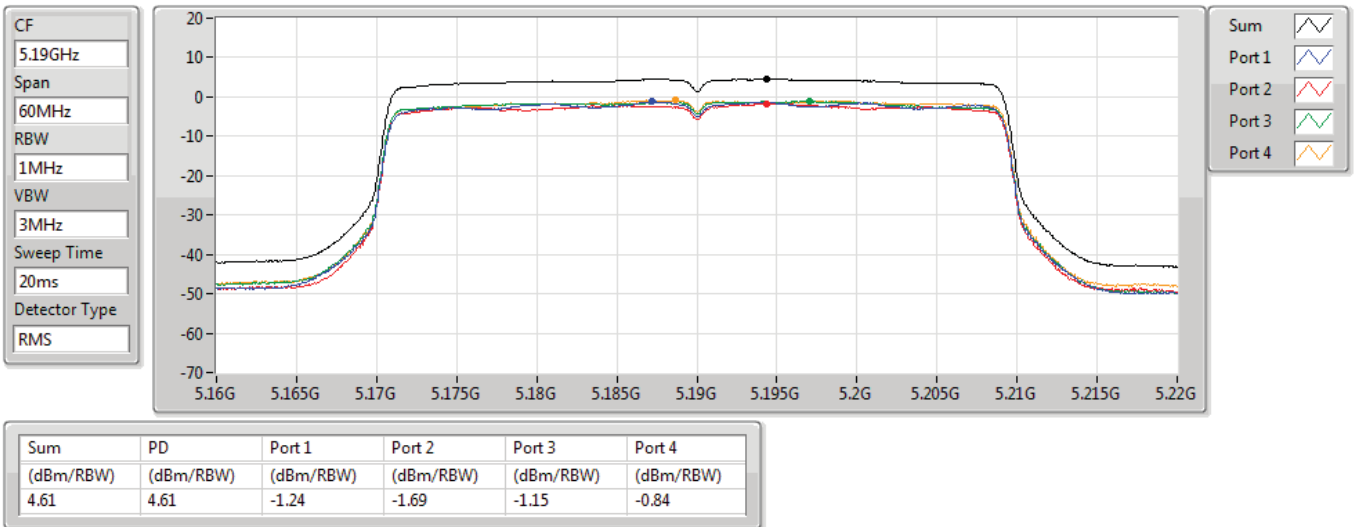


802.11ax HEW40_Nss1,(MCS0)_4TX

PSD

5190MHz

23/02/2021

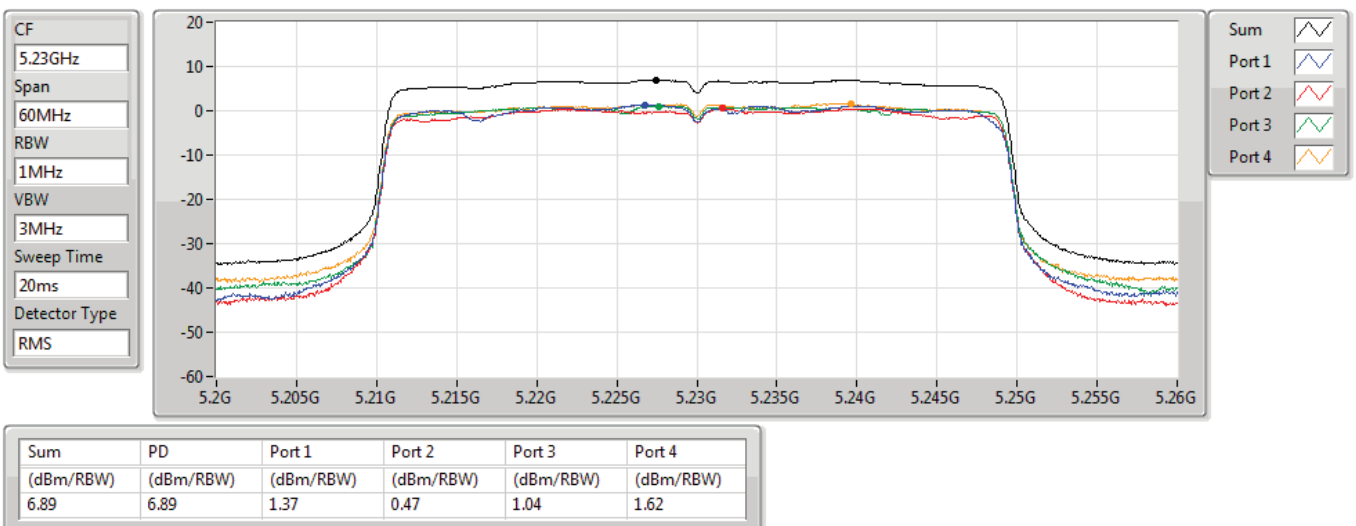


802.11ax HEW40_Nss1,(MCS0)_4TX

PSD

5230MHz

23/02/2021

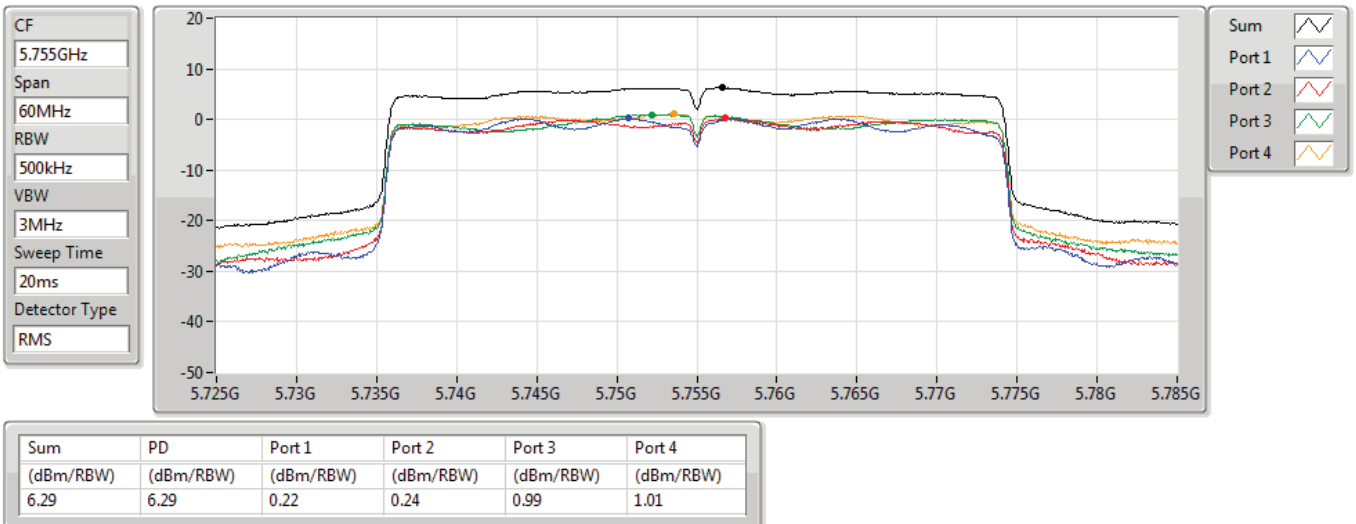


802.11ax HEW40_Nss1,(MCS0)_4TX

PSD

5755MHz

23/02/2021

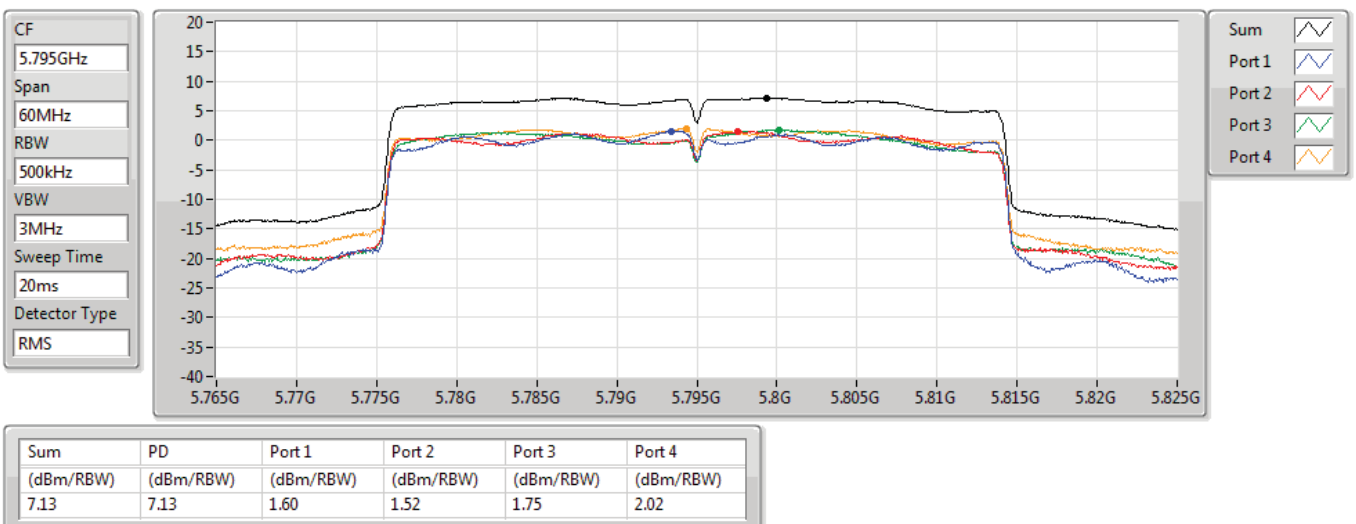


802.11ax HEW40_Nss1,(MCS0)_4TX

PSD

5795MHz

23/02/2021

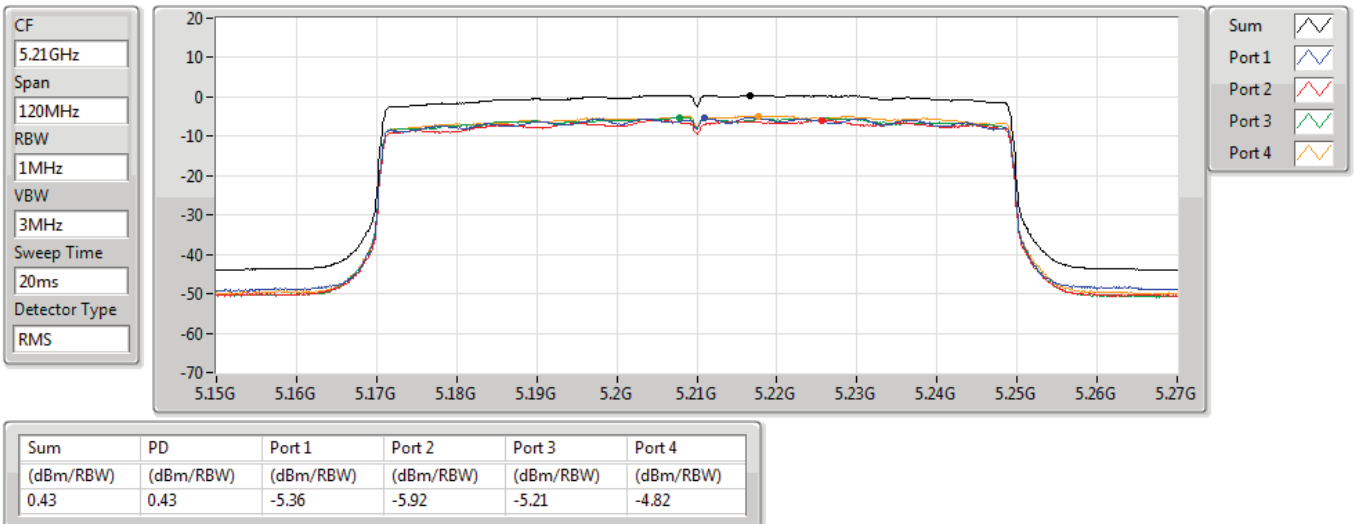


802.11ax HEW80_Nss1,(MCS0)_4TX

PSD

5210MHz

23/02/2021

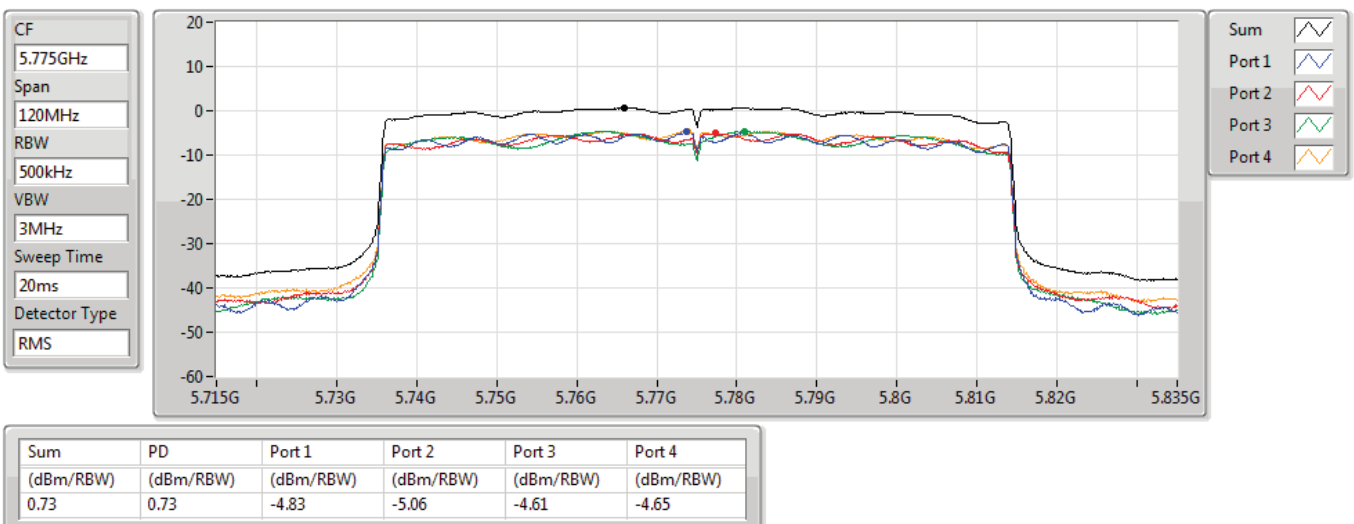


802.11ax HEW80_Nss1,(MCS0)_4TX

PSD

5775MHz

23/02/2021



**Summary**

Mode	PD (dBm/RBW)	EIRP PD (dBm/RBW)
5.15-5.25GHz	-	-
802.11a_Nss1,(6Mbps)_8TX	12.92	22.44
802.11n HT20_Nss1,(MCS0)_8TX	11.49	21.01
802.11n HT40_Nss1,(MCS0)_8TX	8.99	18.51
802.11ac VHT20_Nss1,(MCS0)_8TX	11.45	20.97
802.11ac VHT40_Nss1,(MCS0)_8TX	8.93	18.45
802.11ac VHT80_Nss1,(MCS0)_8TX	2.42	11.94
802.11ax HEW20_Nss1,(MCS0)_8TX	11.64	21.16
802.11ax HEW40_Nss1,(MCS0)_8TX	9.03	18.55
802.11ax HEW80_Nss1,(MCS0)_8TX	2.34	11.86
5.725-5.85GHz	-	-
802.11a_Nss1,(6Mbps)_8TX	11.27	19.11
802.11n HT20_Nss1,(MCS0)_8TX	10.66	18.50
802.11n HT40_Nss1,(MCS0)_8TX	7.96	15.80
802.11ac VHT20_Nss1,(MCS0)_8TX	10.76	18.60
802.11ac VHT40_Nss1,(MCS0)_8TX	8.07	15.91
802.11ac VHT80_Nss1,(MCS0)_8TX	3.34	11.18
802.11ax HEW20_Nss1,(MCS0)_8TX	10.36	18.20
802.11ax HEW40_Nss1,(MCS0)_8TX	7.94	15.78
802.11ax HEW80_Nss1,(MCS0)_8TX	3.26	11.10

RBW = 500kHz for 5.725-5.85GHz band / 1MHz for other band;

Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	Port 3 (dBm/RBW)	Port 4 (dBm/RBW)	Port 5 (dBm/RBW)	Port 6 (dBm/RBW)	Port 7 (dBm/RBW)	Port 8 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)	EIRP PD (dBm/RBW)	EIRP PD Limit (dBm/RBW)
802.11a_Nss1,(6Mbps)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	9.52	4.58	4.22	4.18	4.13	4.15	3.50	4.11	3.99	12.92	13.48	22.44	23.00
5200MHz	Pass	9.52	4.70	3.69	4.69	4.16	3.58	3.58	4.21	4.21	12.85	13.48	22.37	23.00
5240MHz	Pass	9.52	4.33	3.37	4.40	4.06	3.16	3.18	4.32	4.08	12.63	13.48	22.15	23.00
5745MHz	Pass	7.84	2.44	2.00	2.49	2.78	2.14	2.61	1.69	3.75	11.12	28.16	18.96	36.00
5785MHz	Pass	7.84	3.17	1.82	3.14	3.15	2.03	3.22	2.18	3.61	11.27	28.16	19.11	36.00
5825MHz	Pass	7.84	2.27	2.18	2.22	2.55	1.17	2.02	1.11	2.29	10.58	28.16	18.42	36.00
802.11n HT20_Nss1,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	9.52	1.71	1.95	1.84	1.43	1.67	1.04	1.64	1.48	10.41	13.48	19.93	23.00
5200MHz	Pass	9.52	3.42	2.06	2.99	2.57	2.41	2.38	2.81	2.84	11.47	13.48	20.99	23.00
5240MHz	Pass	9.52	3.02	2.97	3.13	1.96	2.31	1.91	2.68	2.87	11.49	13.48	21.01	23.00
5745MHz	Pass	7.84	2.52	0.42	2.50	2.44	0.67	1.82	1.22	2.98	10.26	28.16	18.10	36.00
5785MHz	Pass	7.84	0.43	1.11	0.54	0.97	-0.86	0.42	-0.22	0.98	8.89	28.16	16.73	36.00
5825MHz	Pass	7.84	2.49	2.57	2.59	2.60	1.43	2.45	1.12	2.57	10.66	28.16	18.50	36.00
802.11n HT40_Nss1,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	9.52	-1.11	-1.42	-1.10	-1.54	-1.17	-1.58	-1.43	-1.21	7.34	13.48	16.86	23.00
5230MHz	Pass	9.52	0.62	0.19	0.61	0.11	0.21	-0.06	0.49	0.34	8.99	13.48	18.51	23.00
5755MHz	Pass	7.84	-1.02	-0.95	-0.47	-0.31	-1.99	-0.80	-2.21	-0.14	7.49	28.16	15.33	36.00
5795MHz	Pass	7.84	-0.30	-0.10	0.29	0.12	-1.31	-0.10	-1.04	0.09	7.96	28.16	15.80	36.00
802.11ac VHT20_Nss1,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	9.52	1.67	1.80	2.05	1.45	1.76	1.22	1.97	1.17	10.29	13.48	19.81	23.00
5200MHz	Pass	9.52	3.09	2.99	3.12	2.23	2.13	2.35	3.23	2.75	11.45	13.48	20.97	23.00
5240MHz	Pass	9.52	3.02	2.85	2.97	2.48	1.90	2.26	2.80	2.87	11.35	13.48	20.87	23.00
5745MHz	Pass	7.84	1.82	1.56	2.35	2.42	1.61	2.30	1.24	3.21	10.55	28.16	18.39	36.00
5785MHz	Pass	7.84	0.83	-0.75	1.44	0.75	-0.24	0.36	0.14	0.97	8.77	28.16	16.61	36.00
5825MHz	Pass	7.84	2.39	2.16	3.03	2.72	1.53	2.12	1.53	2.16	10.76	28.16	18.60	36.00
802.11ac VHT40_Nss1,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	9.52	-1.22	-1.62	-1.20	-1.72	-1.43	-1.56	-1.61	-1.41	7.32	13.48	16.84	23.00
5230MHz	Pass	9.52	0.28	0.07	0.44	-0.13	0.38	-0.35	0.29	0.27	8.93	13.48	18.45	23.00
5755MHz	Pass	7.84	-1.12	-1.14	-0.76	-0.57	-2.14	-1.01	-2.42	-0.30	7.29	28.16	15.13	36.00
5795MHz	Pass	7.84	-0.26	-0.15	0.40	0.29	-1.33	-0.07	-1.14	0.21	8.07	28.16	15.91	36.00
802.11ac VHT80_Nss1,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	9.52	-6.25	-6.13	-6.04	-6.75	-6.30	-6.76	-6.43	-6.04	2.42	13.48	11.94	23.00
5775MHz	Pass	7.84	-4.98	-5.10	-4.24	-4.87	-6.00	-4.90	-5.89	-4.52	3.34	28.16	11.18	36.00
802.11ax HEW20_Nss1,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	9.52	1.77	1.56	1.50	1.50	1.54	0.90	1.64	1.46	10.23	13.48	19.75	23.00
5200MHz	Pass	9.52	3.31	3.08	3.04	2.80	2.31	1.85	2.61	2.94	11.54	13.48	21.06	23.00
5240MHz	Pass	9.52	3.54	3.03	3.38	2.60	2.64	2.03	3.03	3.33	11.64	13.48	21.16	23.00
5745MHz	Pass	7.84	2.02	1.47	1.81	2.40	1.18	1.80	0.99	2.74	10.25	28.16	18.09	36.00
5785MHz	Pass	7.84	0.41	0.12	1.32	0.72	-0.47	0.57	-0.09	1.30	8.91	28.16	16.75	36.00
5825MHz	Pass	7.84	2.29	2.28	2.84	2.69	1.07	2.04	1.32	2.50	10.36	28.16	18.20	36.00
802.11ax HEW40_Nss1,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	9.52	-1.05	-1.43	-0.97	-1.59	-1.32	-1.46	-1.60	-1.44	7.44	13.48	16.96	23.00
5230MHz	Pass	9.52	0.68	0.47	0.75	0.19	0.52	-0.33	0.31	0.51	9.03	13.48	18.55	23.00
5755MHz	Pass	7.84	-1.06	-0.83	-0.83	-0.69	-2.47	-0.88	-2.30	-0.10	7.34	28.16	15.18	36.00
5795MHz	Pass	7.84	-0.46	-0.04	0.12	0.09	-1.75	-0.03	-1.22	0.21	7.94	28.16	15.78	36.00
802.11ax HEW80_Nss1,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-



PSD_Non-Beamforming_Radio1_8T1S

Appendix D.2

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	Port 3 (dBm/RBW)	Port 4 (dBm/RBW)	Port 5 (dBm/RBW)	Port 6 (dBm/RBW)	Port 7 (dBm/RBW)	Port 8 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)	EIRP PD (dBm/RBW)	EIRP PD Limit (dBm/RBW)
5210MHz	Pass	9.52	-6.40	-6.13	-6.09	-6.83	-6.39	-6.91	-6.43	-6.10	2.34	13.48	11.86	23.00
5775MHz	Pass	7.84	-5.22	-4.78	-4.55	-5.12	-6.36	-4.86	-6.05	-4.47	3.26	28.16	11.10	36.00

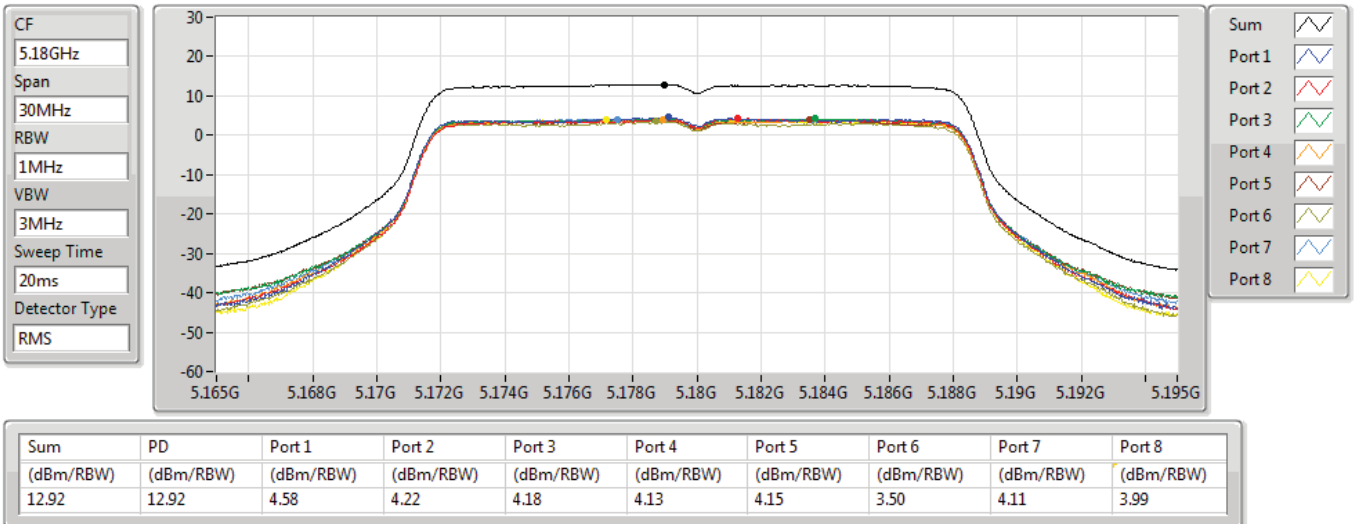
DG = Directional Gain; RBW = 500kHz for 5.725-5.85GHz band / 1MHz for other band;
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; Port X = Port X Power Density;

802.11a_Nss1,(6Mbps)_8TX

PSD

5180MHz

09/03/2021

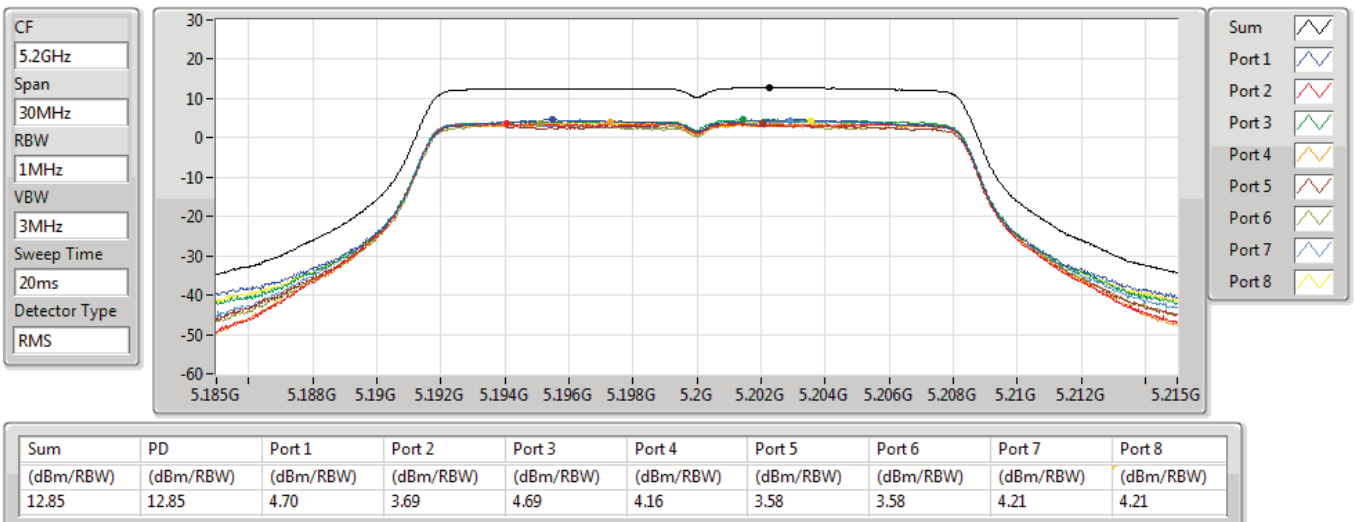


802.11a_Nss1,(6Mbps)_8TX

PSD

5200MHz

14/04/2021

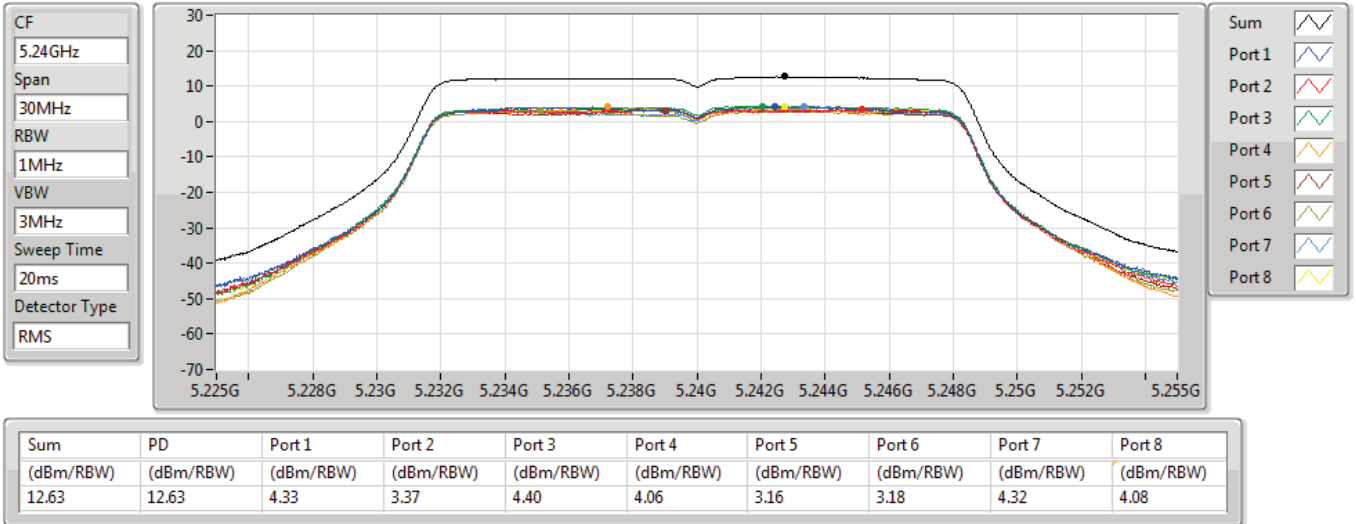


802.11a_Nss1,(6Mbps)_8TX

5240MHz

PSD

14/04/2021

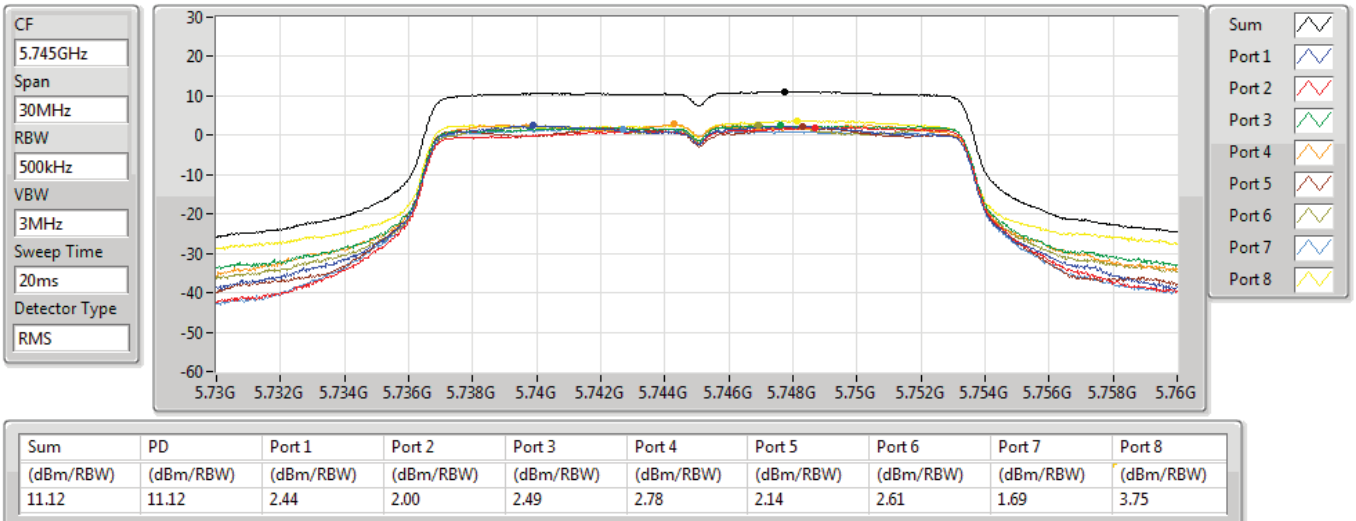


802.11a_Nss1,(6Mbps)_8TX

5745MHz

PSD

25/02/2021

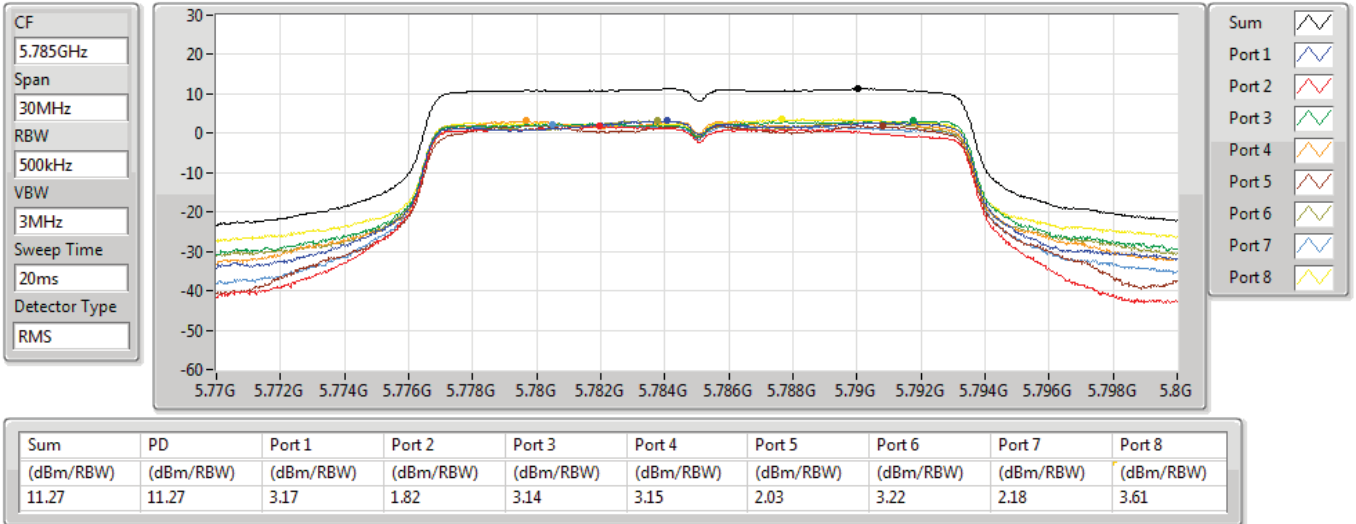


802.11a_Nss1,(6Mbps)_8TX

5785MHz

PSD

25/02/2021

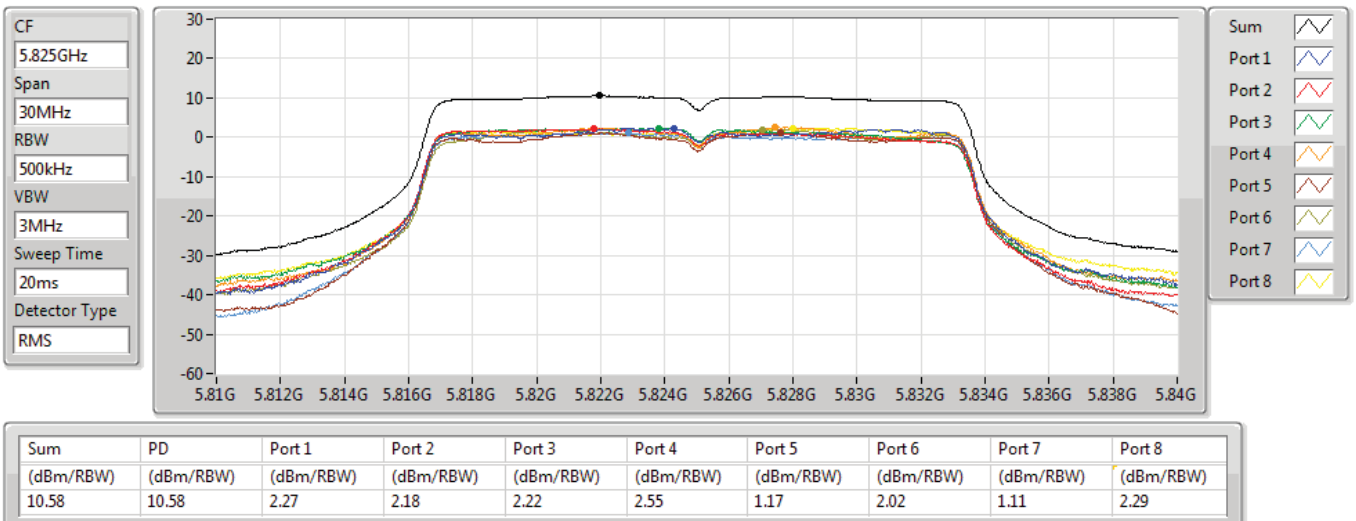


802.11a_Nss1,(6Mbps)_8TX

5825MHz

PSD

25/02/2021

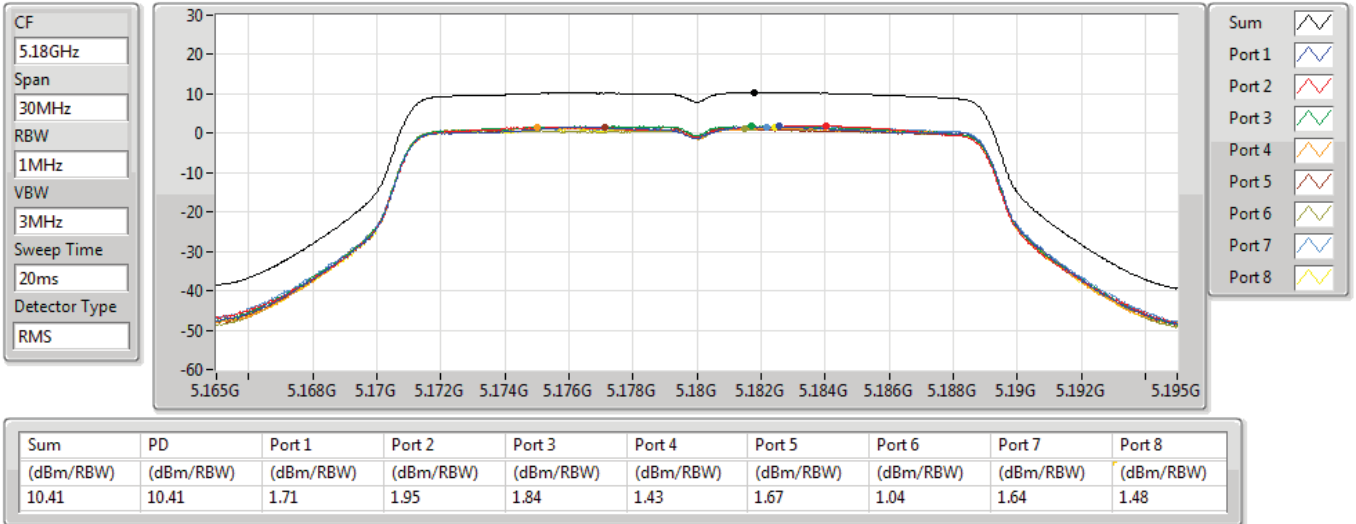


802.11n HT20_Nss1,(MCS0)_8TX

5180MHz

PSD

09/03/2021

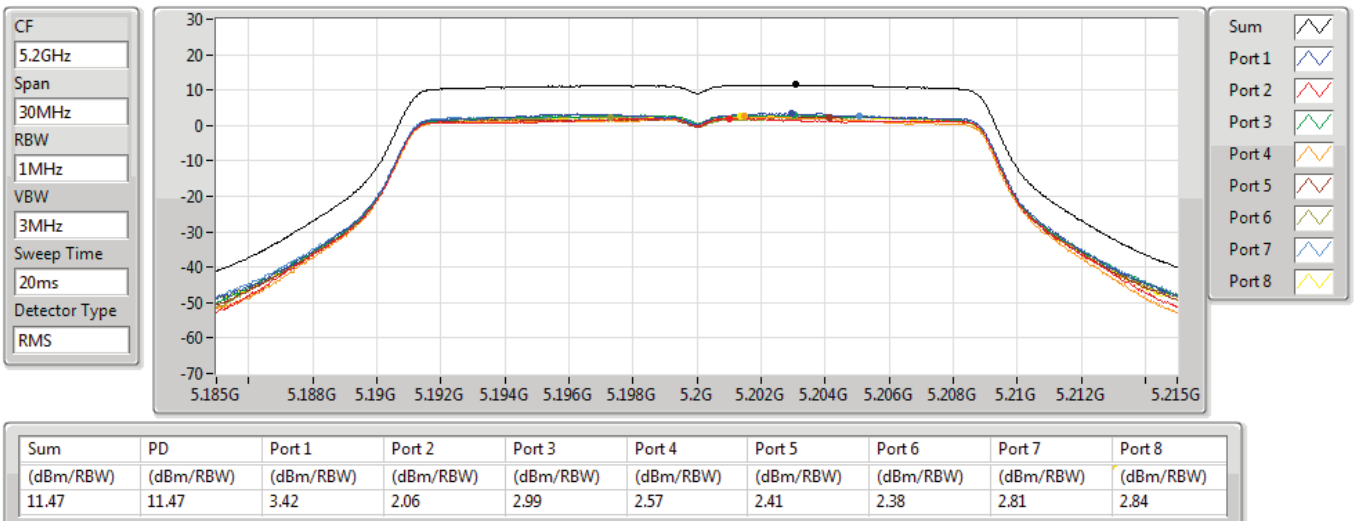


802.11n HT20_Nss1,(MCS0)_8TX

5200MHz

PSD

14/04/2021

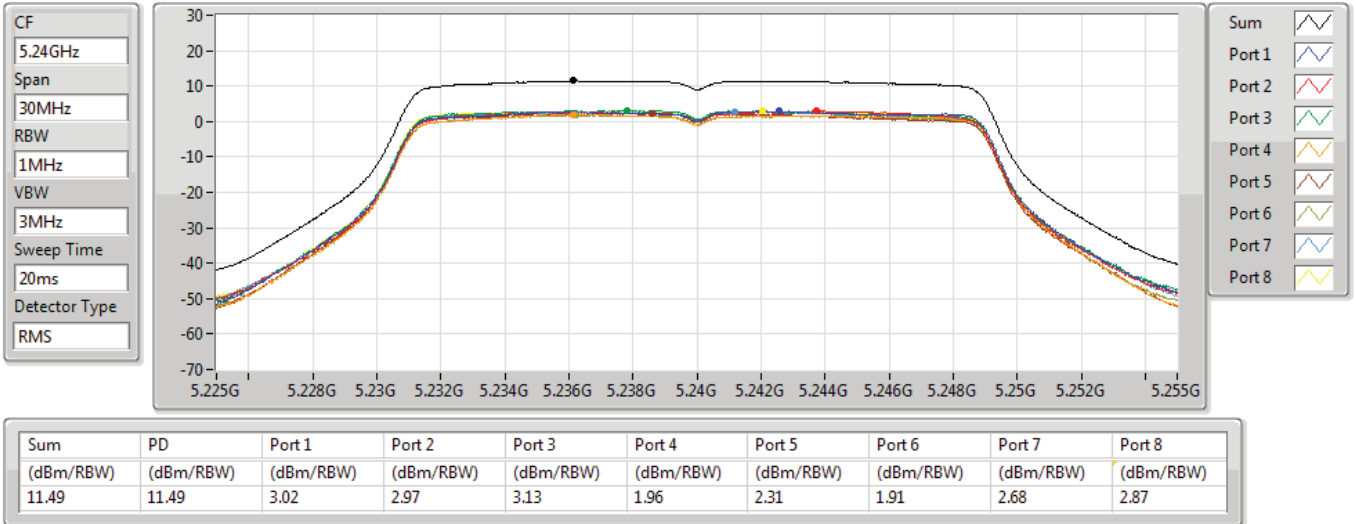


802.11n HT20_Nss1,(MCS0)_8TX

5240MHz

PSD

14/04/2021

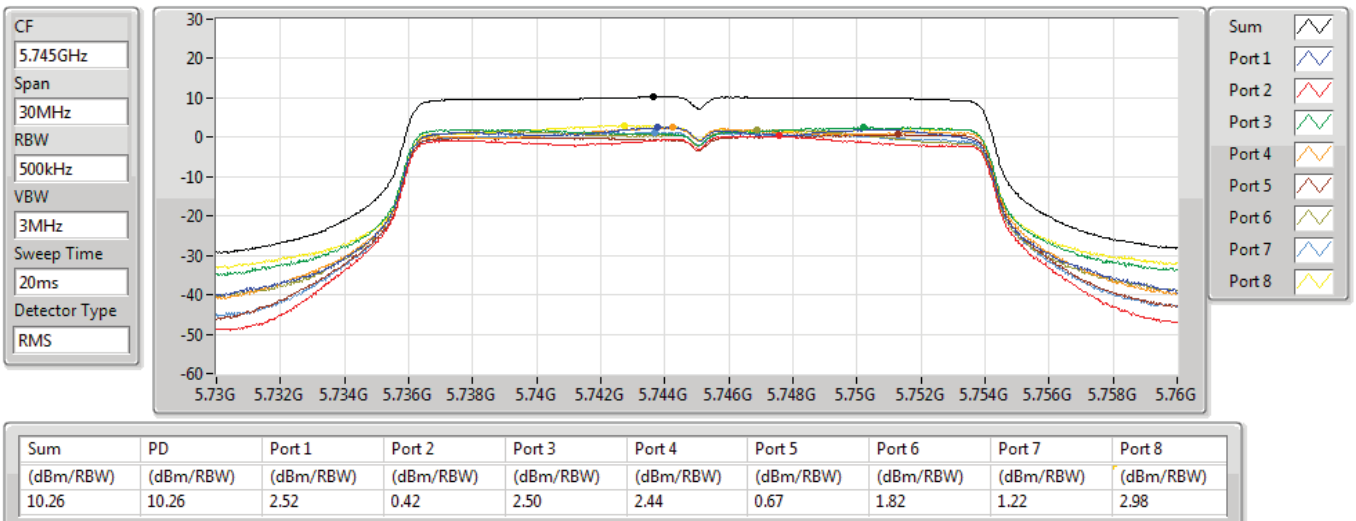


802.11n HT20_Nss1,(MCS0)_8TX

5745MHz

PSD

25/02/2021

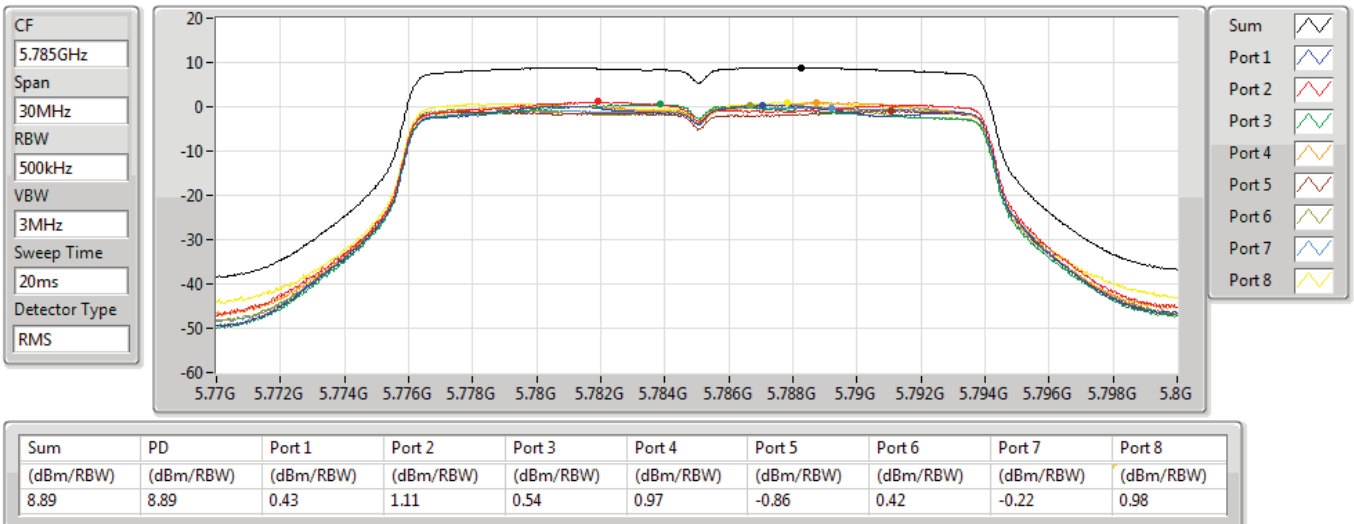


802.11n HT20_Nss1,(MCS0)_8TX

5785MHz

PSD

25/02/2021

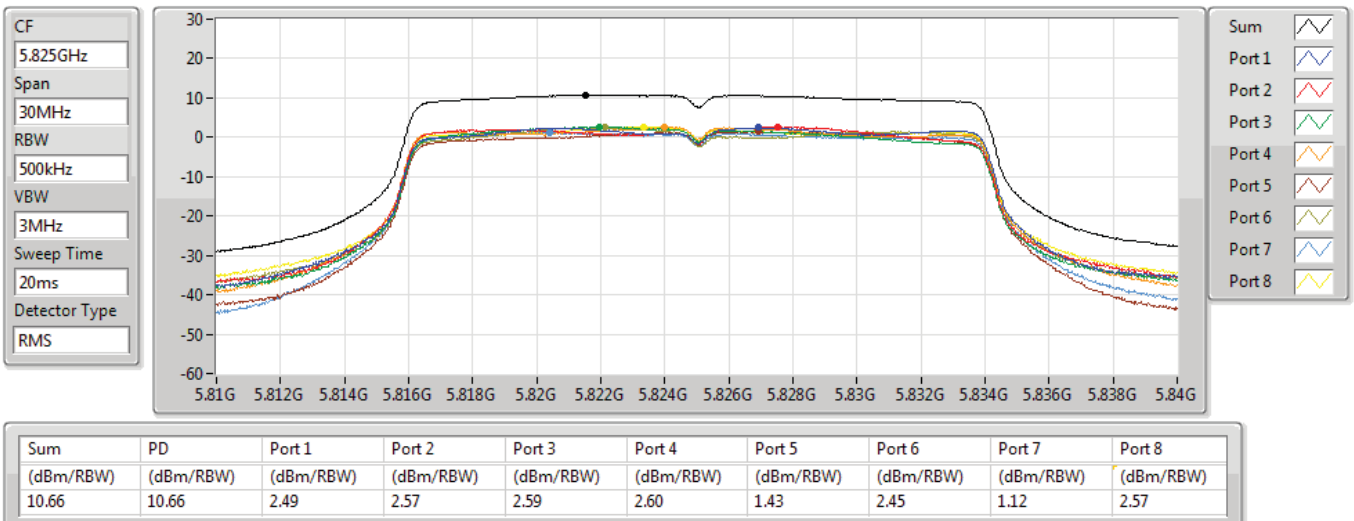


802.11n HT20_Nss1,(MCS0)_8TX

5825MHz

PSD

25/02/2021

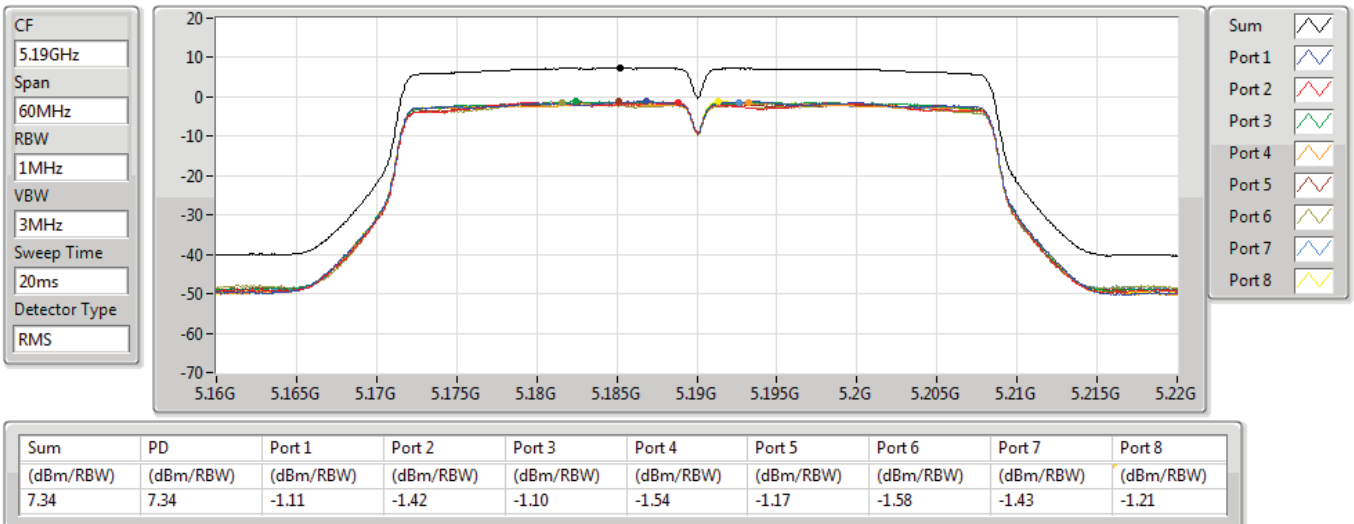


802.11n HT40_Nss1,(MCS0)_8TX

PSD

5190MHz

25/02/2021

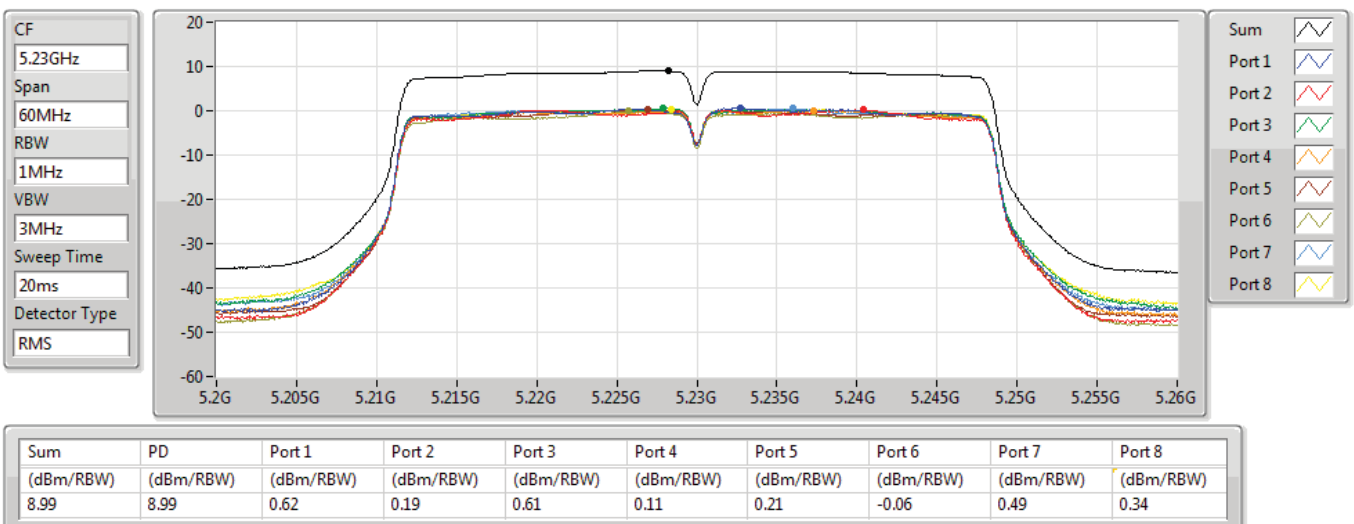


802.11n HT40_Nss1,(MCS0)_8TX

PSD

5230MHz

09/03/2021

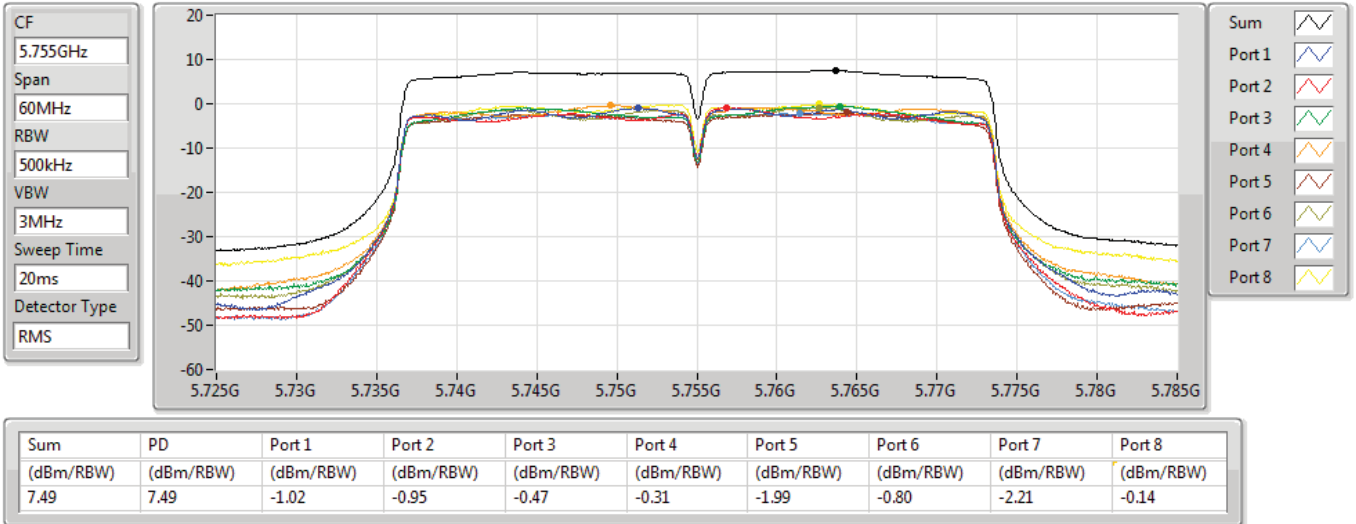


802.11n HT40_Nss1,(MCS0)_8TX

5755MHz

PSD

25/02/2021

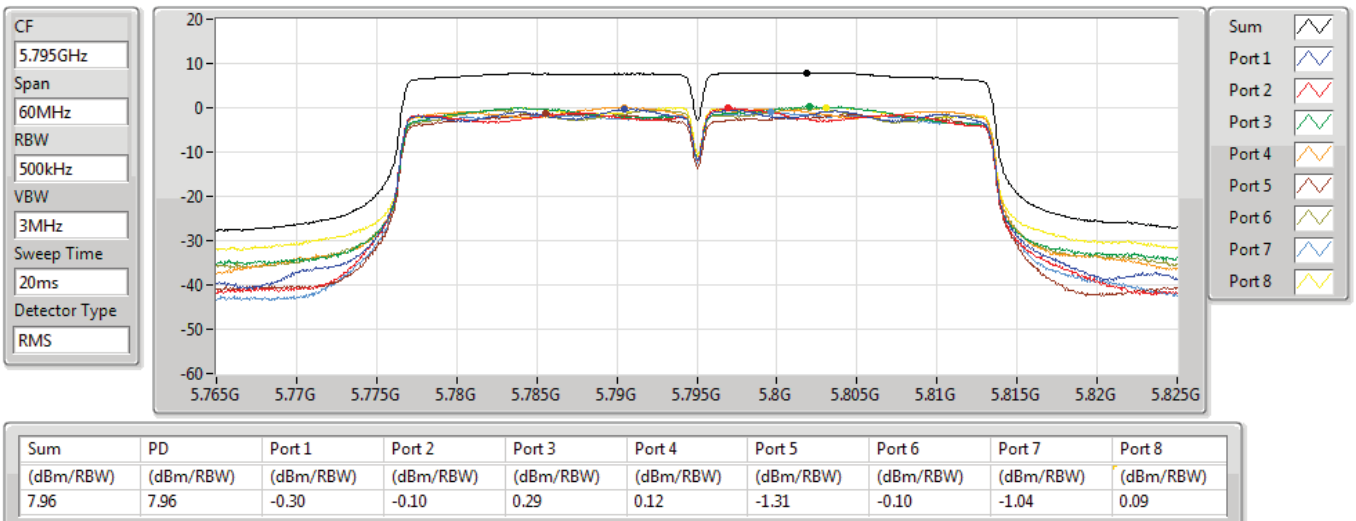


802.11n HT40_Nss1,(MCS0)_8TX

5795MHz

PSD

25/02/2021

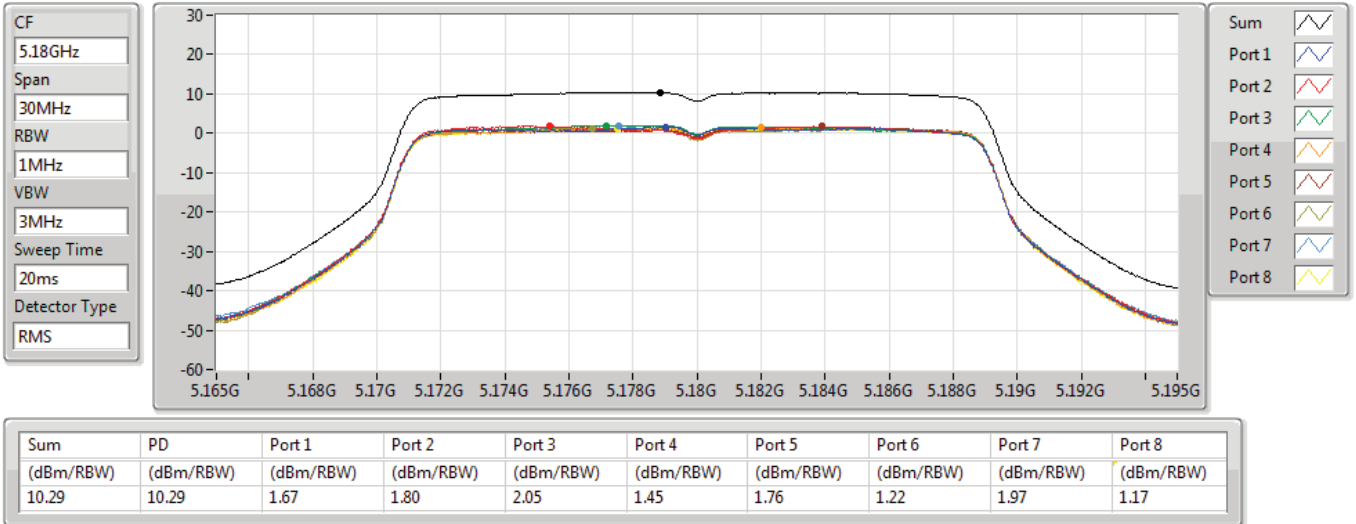


802.11ac VHT20_Nss1,(MCS0)_8TX

5180MHz

PSD

09/03/2021

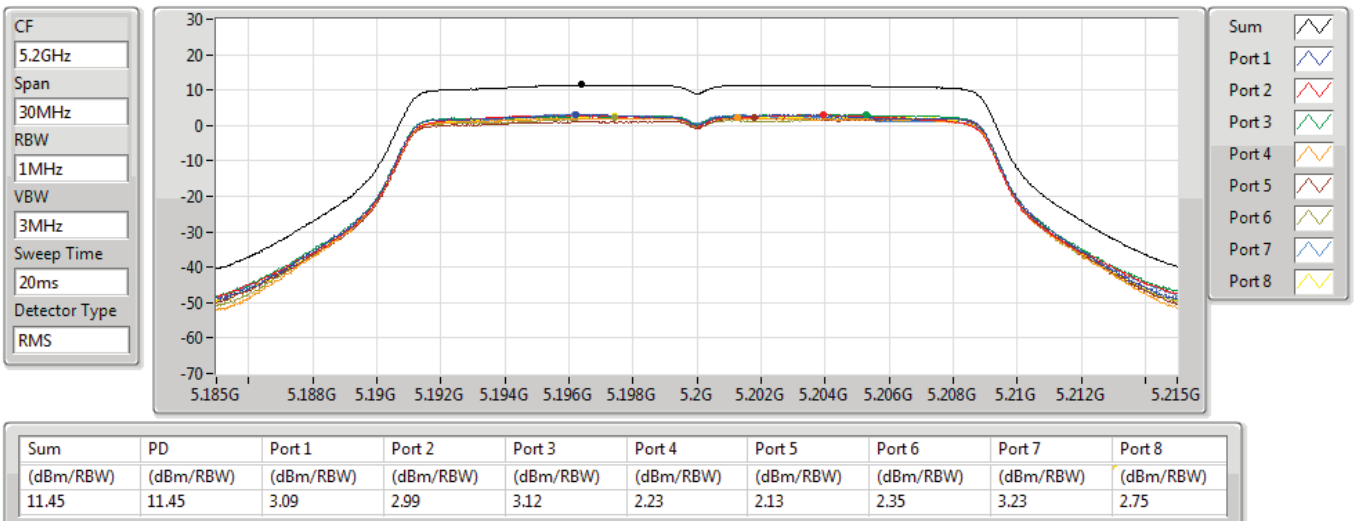


802.11ac VHT20_Nss1,(MCS0)_8TX

5200MHz

PSD

14/04/2021

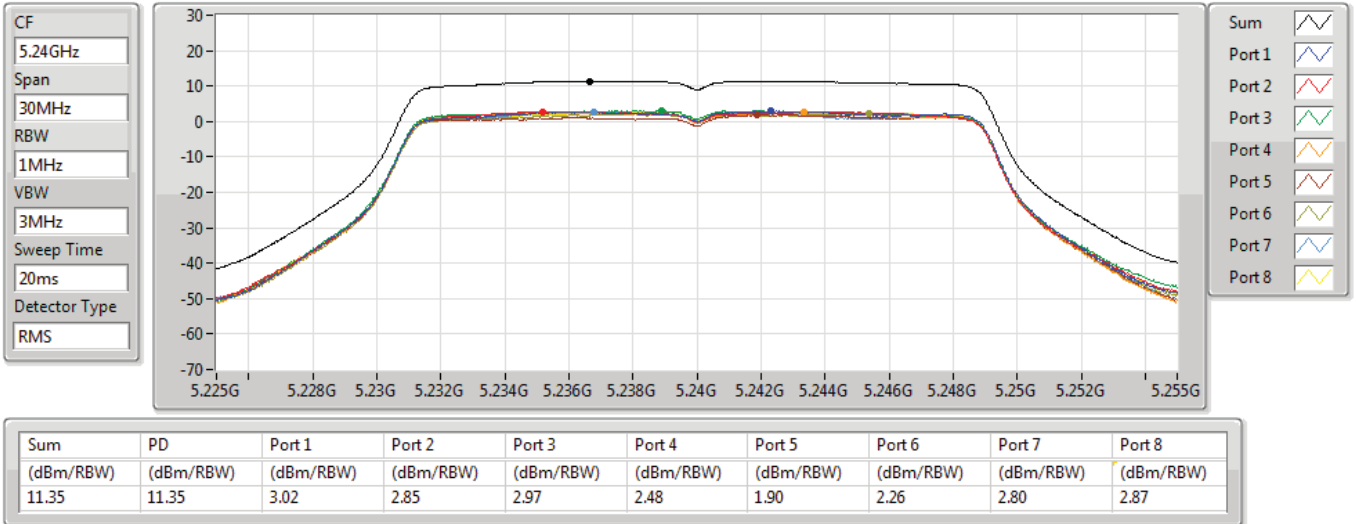


802.11ac VHT20_Nss1,(MCS0)_8TX

5240MHz

PSD

14/04/2021

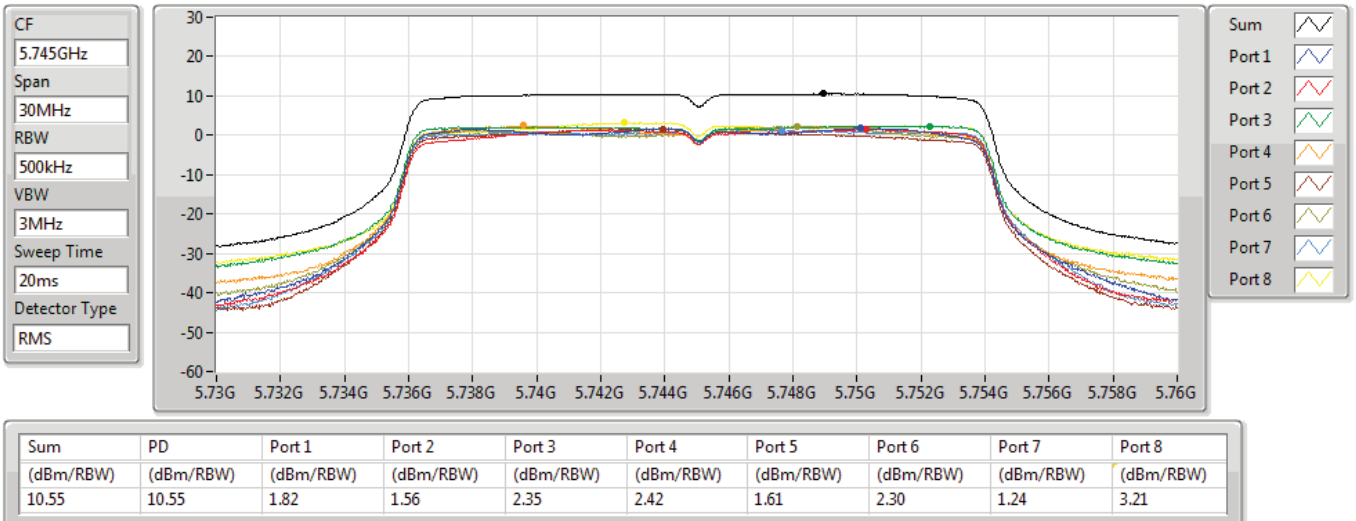


802.11ac VHT20_Nss1,(MCS0)_8TX

5745MHz

PSD

25/02/2021

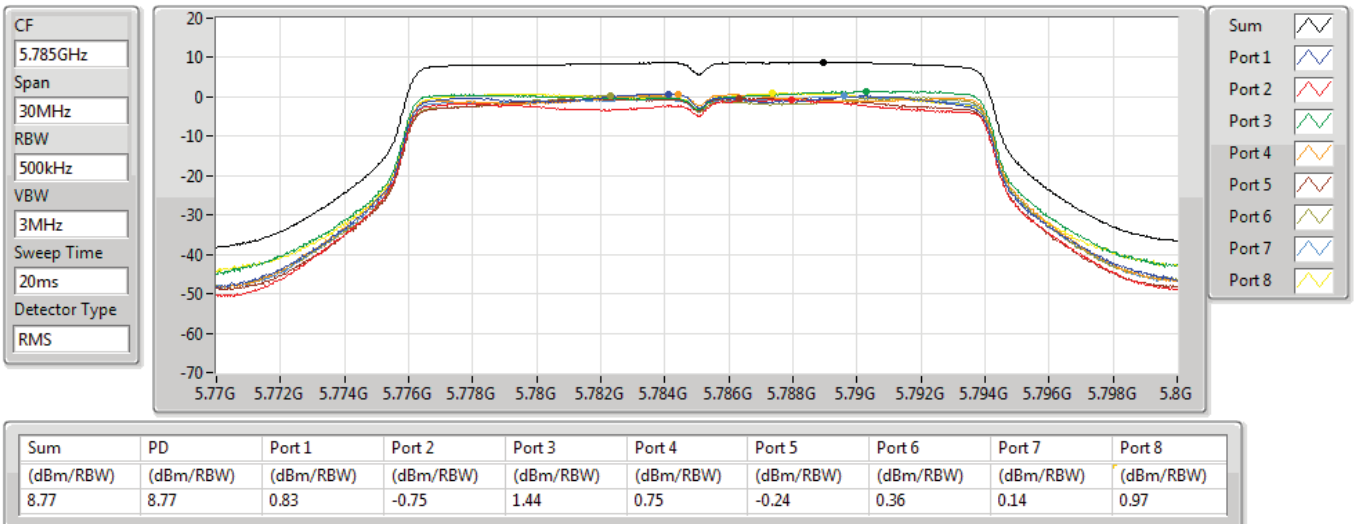


802.11ac VHT20_Nss1,(MCS0)_8TX

5785MHz

PSD

25/02/2021

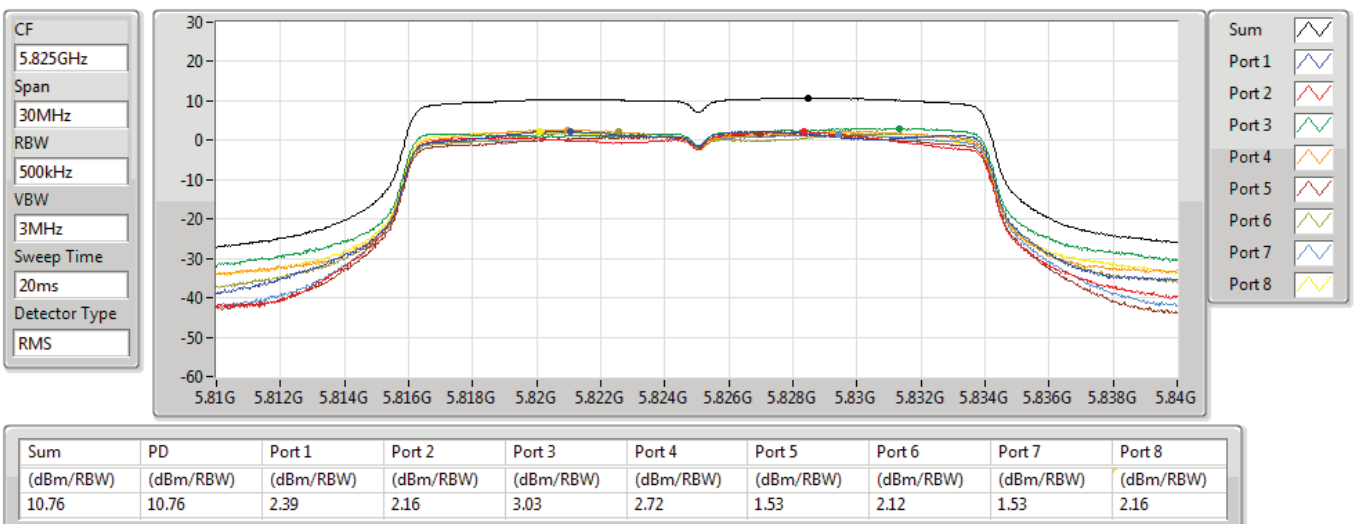


802.11ac VHT20_Nss1,(MCS0)_8TX

5825MHz

PSD

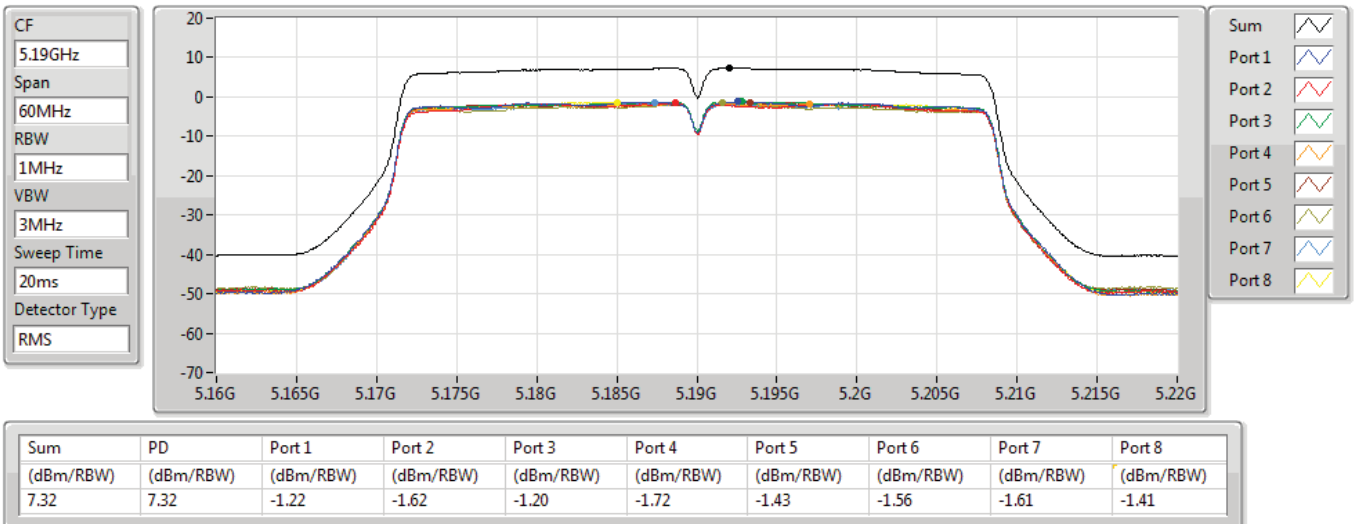
25/02/2021



802.11ac VHT40_Nss1,(MCS0)_8TX

5190MHz

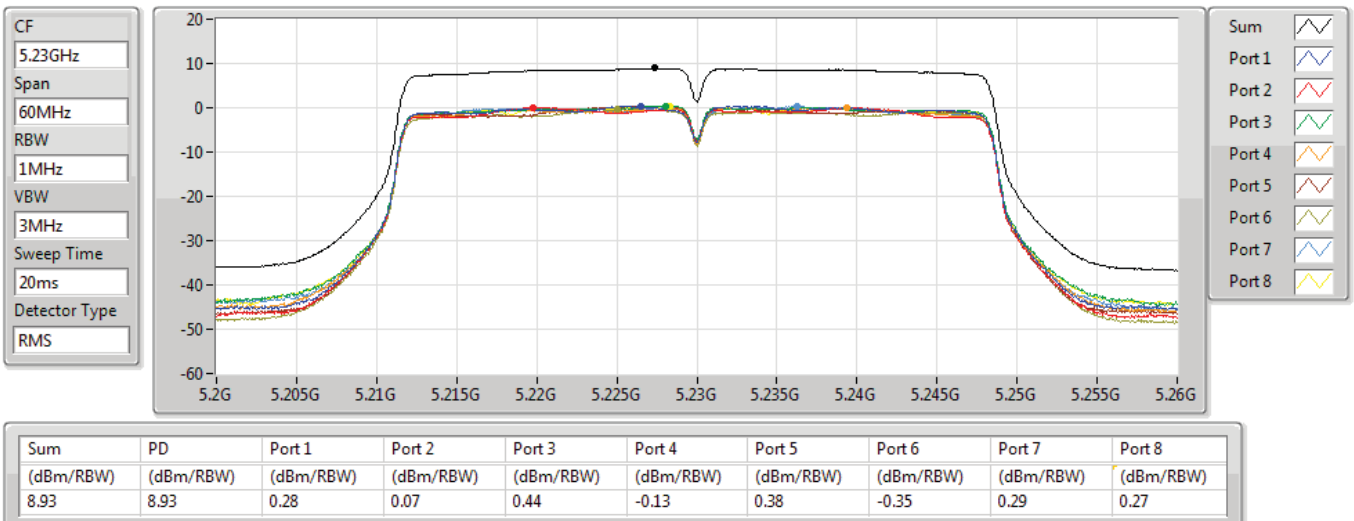
25/02/2021



802.11ac VHT40_Nss1,(MCS0)_8TX

5230MHz

09/03/2021

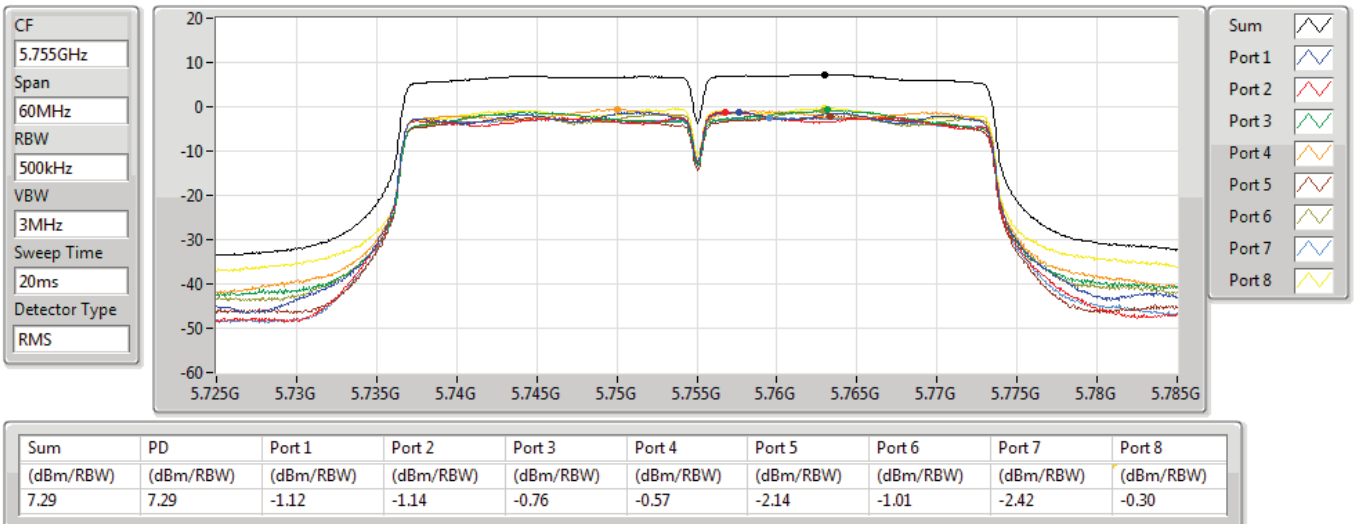


802.11ac VHT40_Nss1,(MCS0)_8TX

5755MHz

PSD

25/02/2021

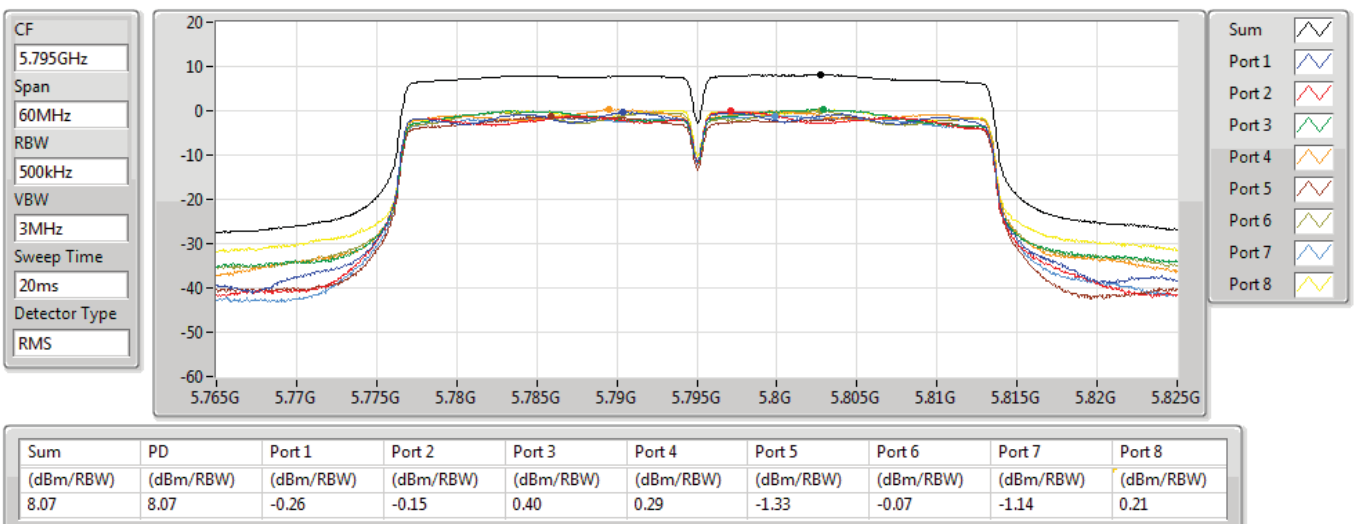


802.11ac VHT40_Nss1,(MCS0)_8TX

5795MHz

PSD

25/02/2021

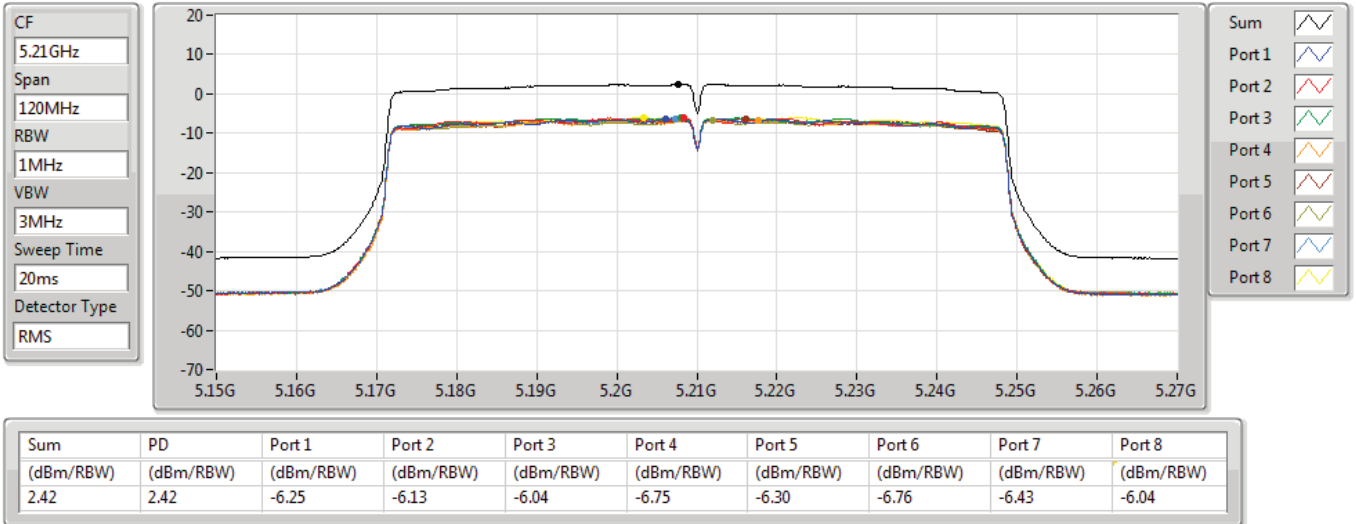


802.11ac VHT80_Nss1,(MCS0)_8TX

PSD

5210MHz

25/02/2021

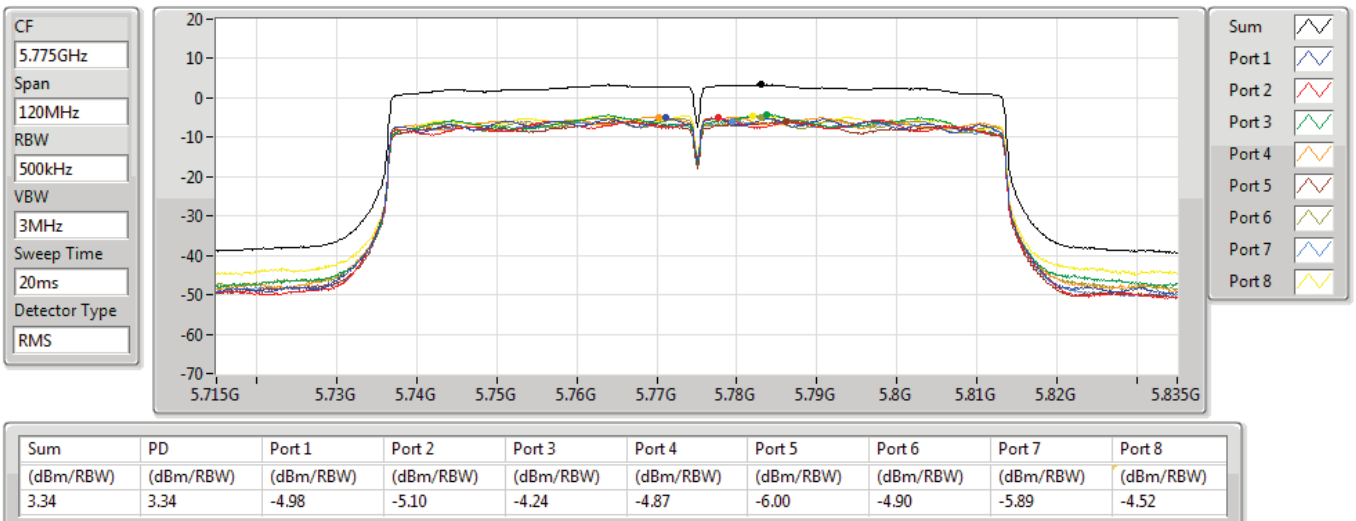


802.11ac VHT80_Nss1,(MCS0)_8TX

PSD

5775MHz

25/02/2021

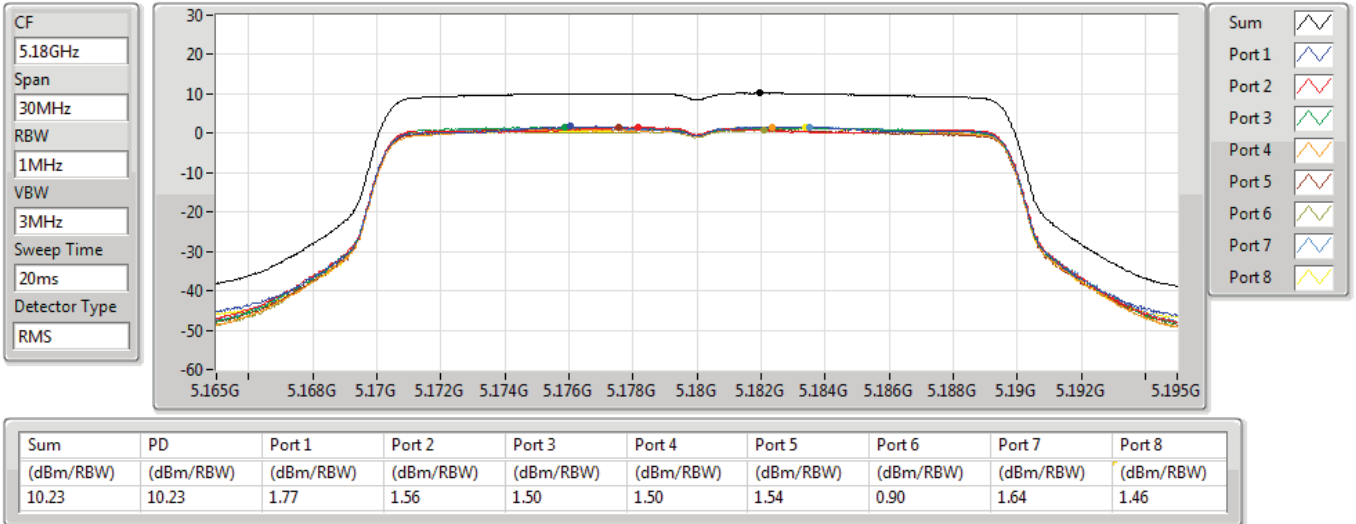


802.11ax HEW20_Nss1,(MCS0)_8TX

5180MHz

PSD

09/03/2021

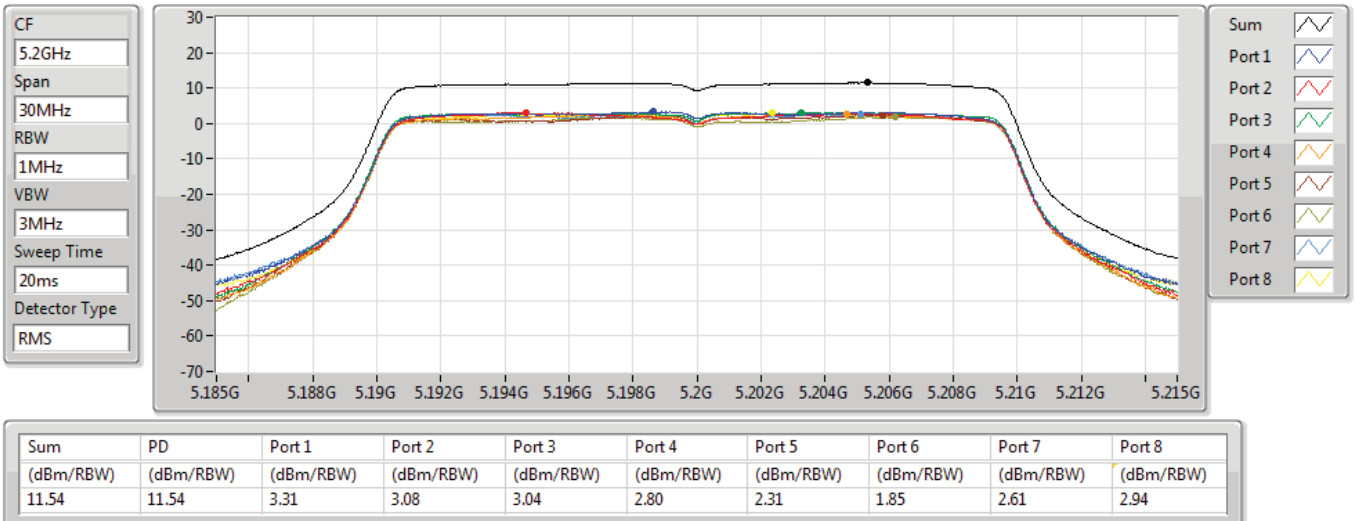


802.11ax HEW20_Nss1,(MCS0)_8TX

5200MHz

PSD

14/04/2021

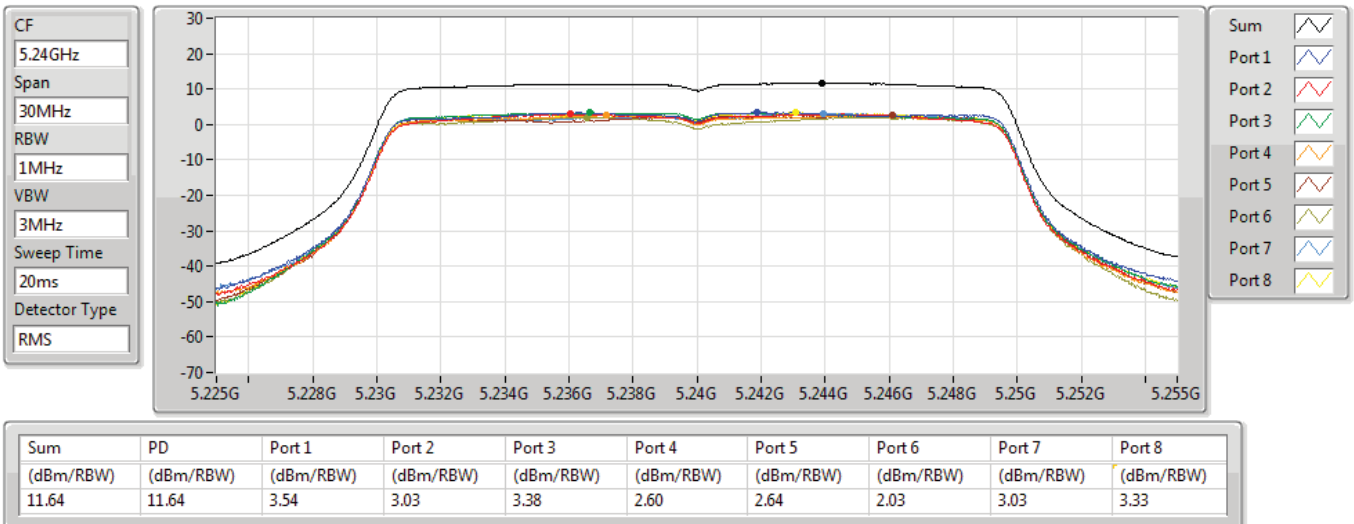


802.11ax HEW20_Nss1,(MCS0)_8TX

5240MHz

PSD

14/04/2021

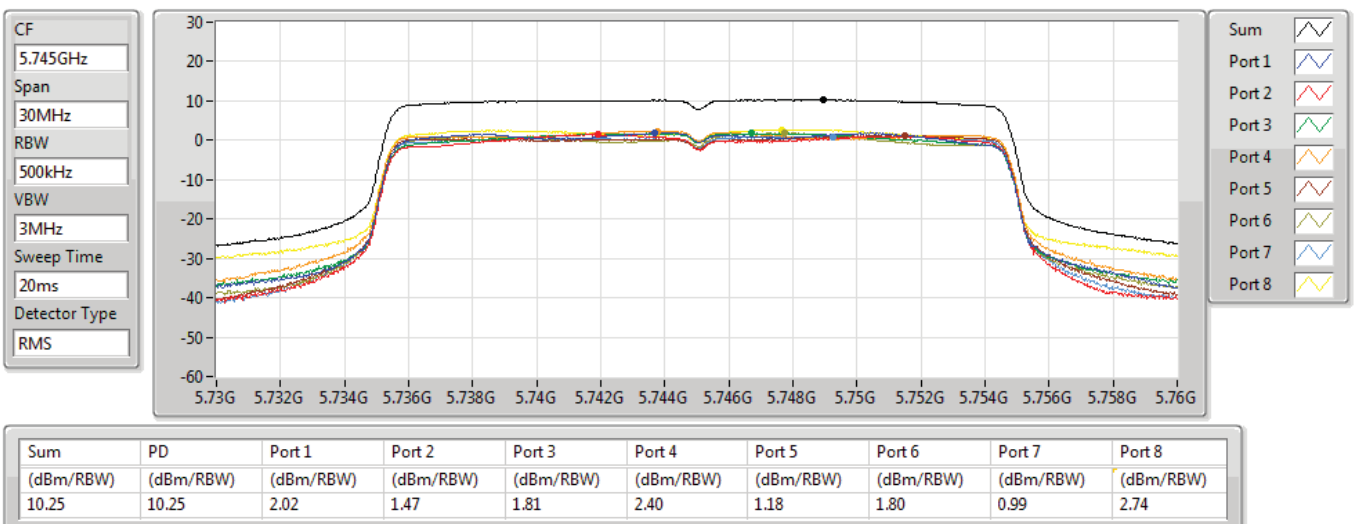


802.11ax HEW20_Nss1,(MCS0)_8TX

5745MHz

PSD

25/02/2021

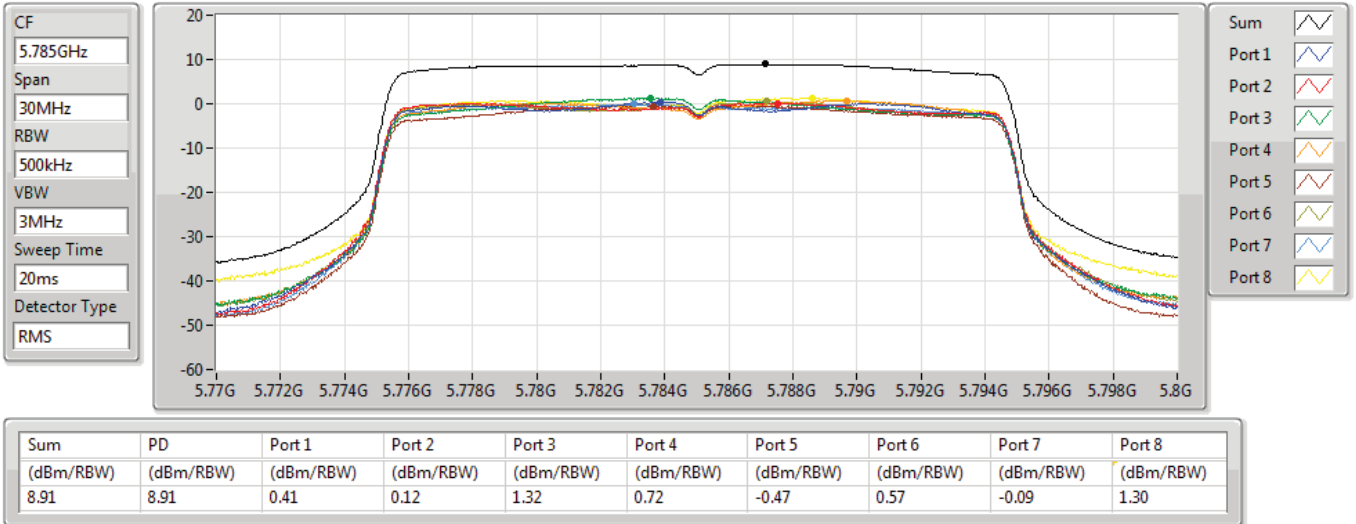


802.11ax HEW20_Nss1,(MCS0)_8TX

PSD

5785MHz

25/02/2021

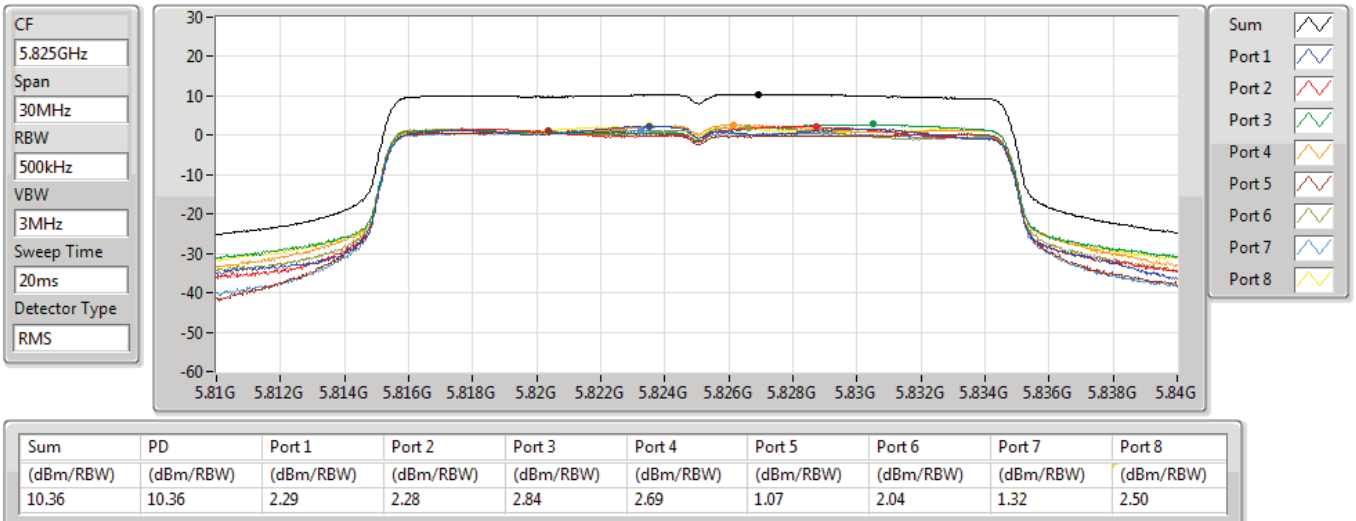


802.11ax HEW20_Nss1,(MCS0)_8TX

PSD

5825MHz

25/02/2021

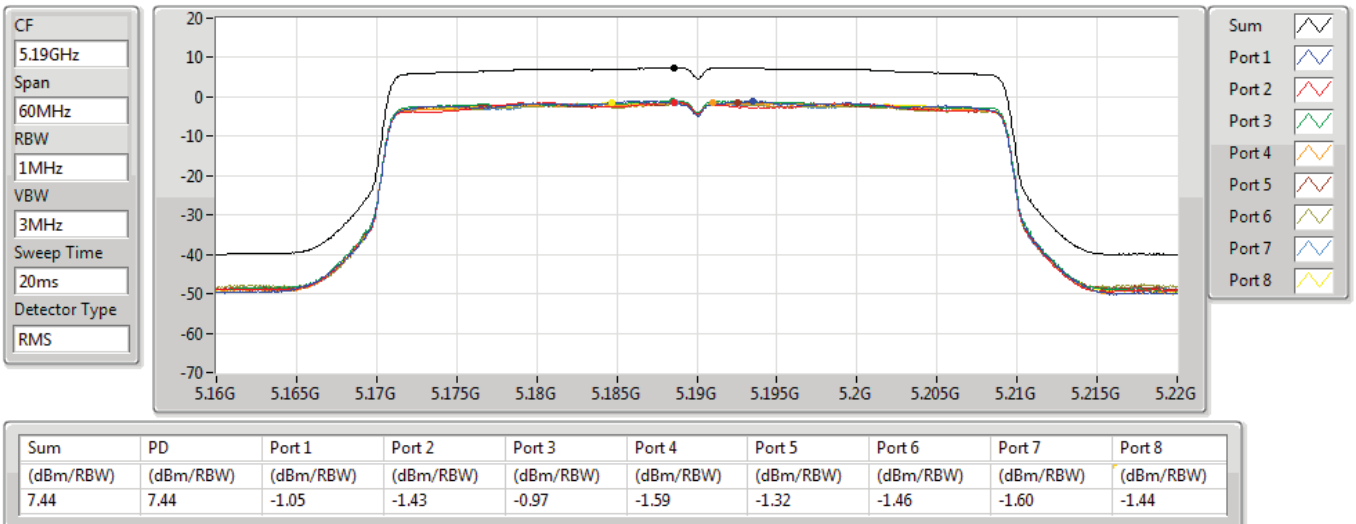


802.11ax HEW40_Nss1,(MCS0)_8TX

PSD

5190MHz

25/02/2021

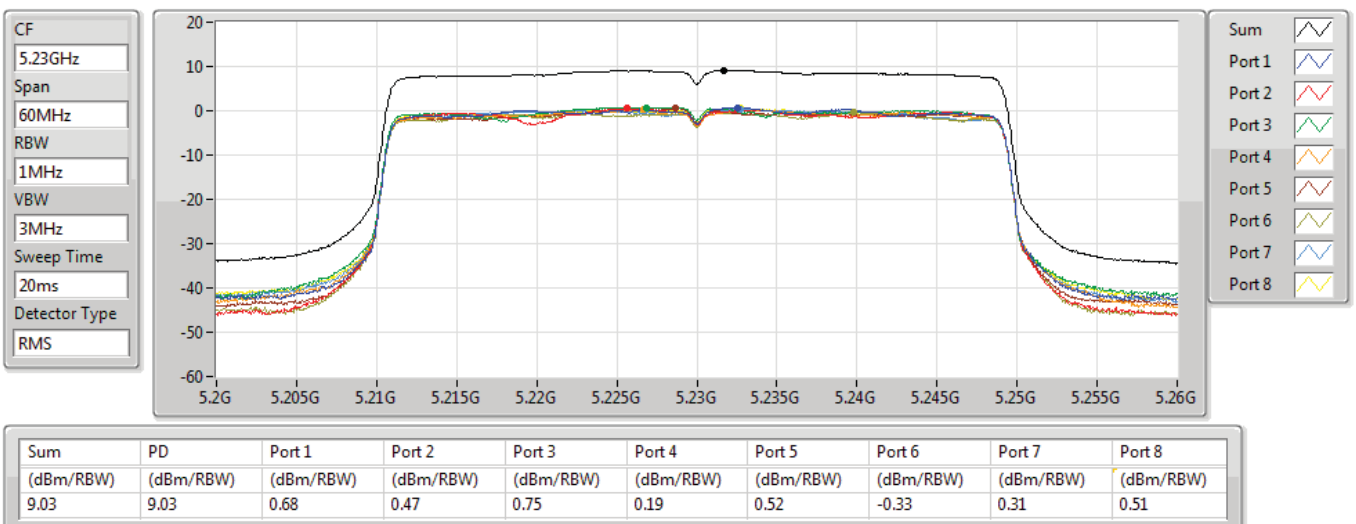


802.11ax HEW40_Nss1,(MCS0)_8TX

PSD

5230MHz

09/03/2021

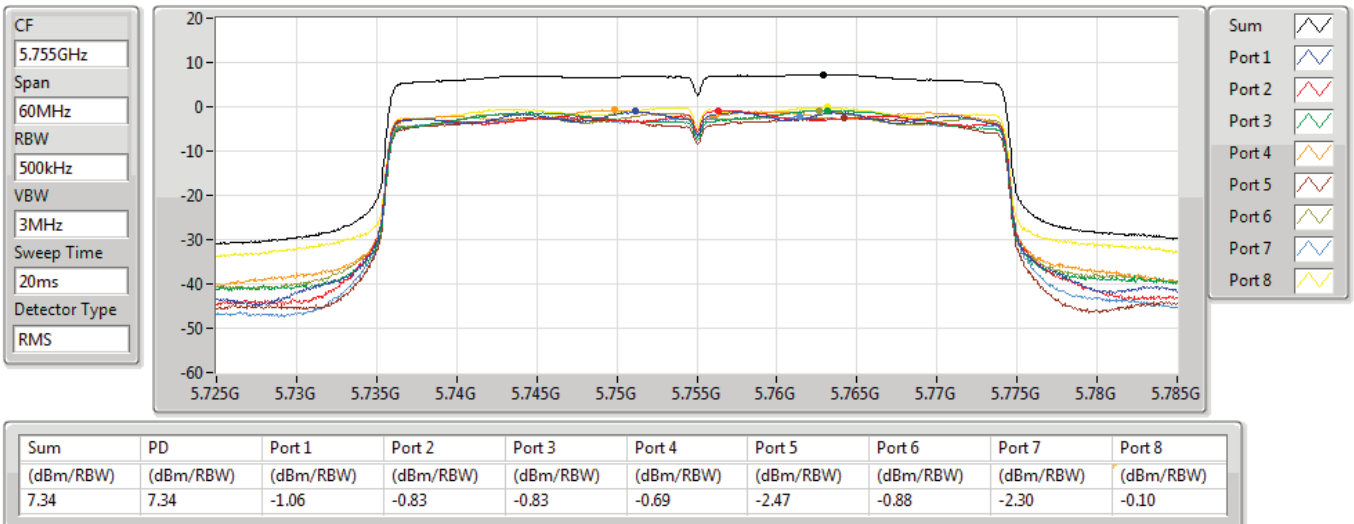


802.11ax HEW40_Nss1,(MCS0)_8TX

5755MHz

PSD

25/02/2021

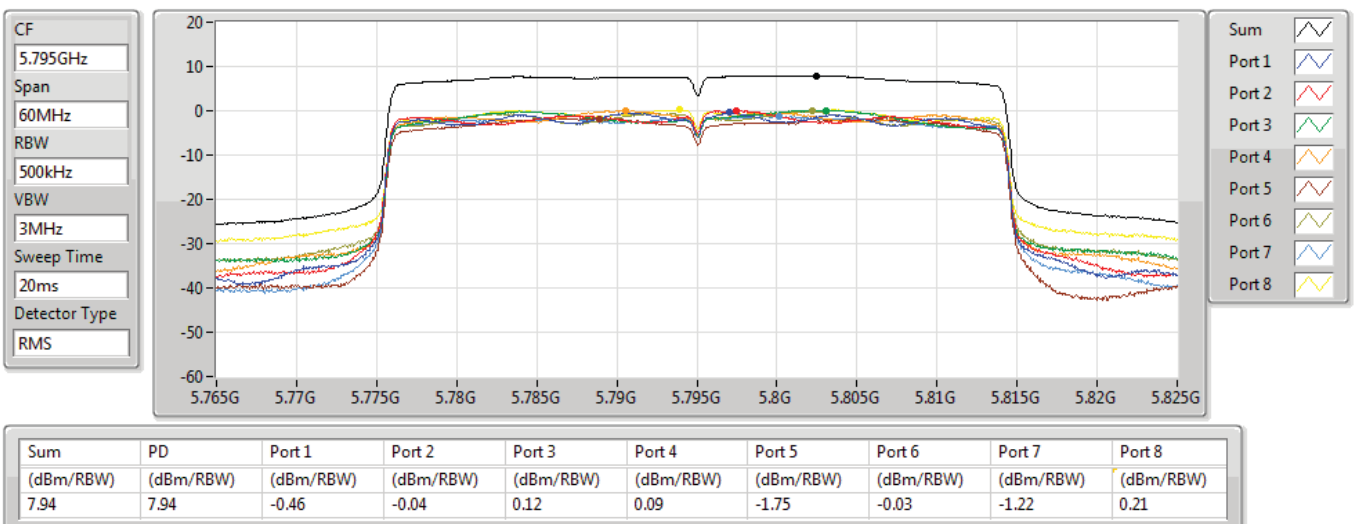


802.11ax HEW40_Nss1,(MCS0)_8TX

5795MHz

PSD

25/02/2021

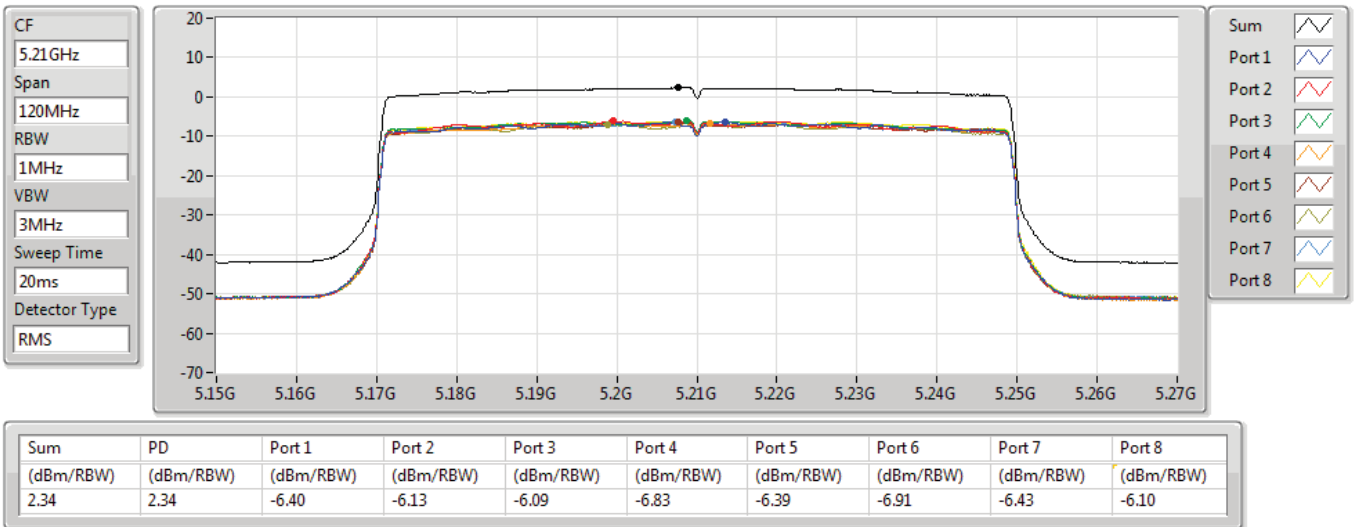


802.11ax HEW80_Nss1,(MCS0)_8TX

PSD

5210MHz

25/02/2021

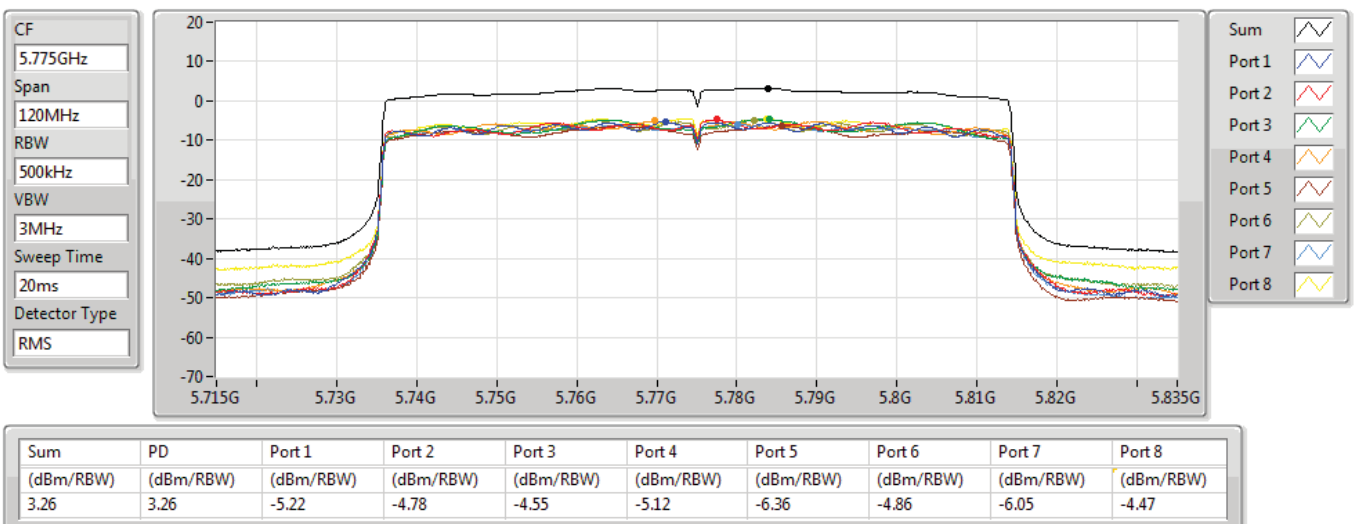


802.11ax HEW80_Nss1,(MCS0)_8TX

PSD

5775MHz

25/02/2021





Summary

Mode	PD (dBm/RBW)	EIRP PD (dBm/RBW)
5.15-5.25GHz	-	-
802.11a_Nss1,(6Mbps)_1TX	7.30	11.90
802.11n HT20_Nss1,(MCS0)_1TX	6.89	11.49
802.11n HT40_Nss1,(MCS0)_1TX	0.85	5.45
802.11ac VHT20_Nss1,(MCS0)_1TX	6.81	11.41
802.11ac VHT40_Nss1,(MCS0)_1TX	0.67	5.27
802.11ac VHT80_Nss1,(MCS0)_1TX	-7.19	-2.59
5.725-5.85GHz	-	-
802.11a_Nss1,(6Mbps)_1TX	7.01	11.61
802.11n HT20_Nss1,(MCS0)_1TX	6.70	11.30
802.11n HT40_Nss1,(MCS0)_1TX	3.59	8.19
802.11ac VHT20_Nss1,(MCS0)_1TX	6.72	11.32
802.11ac VHT40_Nss1,(MCS0)_1TX	3.51	8.11
802.11ac VHT80_Nss1,(MCS0)_1TX	-1.47	3.13

RBW = 500kHz for 5.725-5.85GHz band / 1MHz for other band;



Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)	EIRP PD (dBm/RBW)	EIRP PD Limit (dBm/RBW)
802.11a_Nss1,(6Mbps)_1TX	-	-	-	-	-	-	-
5180MHz	Pass	4.60	5.06	5.06	17.00	9.66	23.00
5200MHz	Pass	4.60	5.72	5.72	17.00	10.32	23.00
5240MHz	Pass	4.60	7.30	7.30	17.00	11.90	23.00
5745MHz	Pass	4.60	7.01	7.01	30.00	11.61	36.00
5785MHz	Pass	4.60	6.50	6.50	30.00	11.10	36.00
5825MHz	Pass	4.60	6.01	6.01	30.00	10.61	36.00
802.11n HT20_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-
5180MHz	Pass	4.60	4.85	4.85	17.00	9.45	23.00
5200MHz	Pass	4.60	5.38	5.38	17.00	9.98	23.00
5240MHz	Pass	4.60	6.89	6.89	17.00	11.49	23.00
5745MHz	Pass	4.60	6.70	6.70	30.00	11.30	36.00
5785MHz	Pass	4.60	6.37	6.37	30.00	10.97	36.00
5825MHz	Pass	4.60	5.99	5.99	30.00	10.59	36.00
802.11n HT40_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-
5190MHz	Pass	4.60	-0.97	-0.97	17.00	3.63	23.00
5230MHz	Pass	4.60	0.85	0.85	17.00	5.45	23.00
5755MHz	Pass	4.60	3.59	3.59	30.00	8.19	36.00
5795MHz	Pass	4.60	3.56	3.56	30.00	8.16	36.00
802.11ac VHT20_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-
5180MHz	Pass	4.60	4.85	4.85	17.00	9.45	23.00
5200MHz	Pass	4.60	5.37	5.37	17.00	9.97	23.00
5240MHz	Pass	4.60	6.81	6.81	17.00	11.41	23.00
5745MHz	Pass	4.60	6.72	6.72	30.00	11.32	36.00
5785MHz	Pass	4.60	6.30	6.30	30.00	10.90	36.00
5825MHz	Pass	4.60	6.00	6.00	30.00	10.60	36.00
802.11ac VHT40_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-
5190MHz	Pass	4.60	-0.93	-0.93	17.00	3.67	23.00
5230MHz	Pass	4.60	0.67	0.67	17.00	5.27	23.00
5755MHz	Pass	4.60	3.48	3.48	30.00	8.08	36.00
5795MHz	Pass	4.60	3.51	3.51	30.00	8.11	36.00
802.11ac VHT80_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-
5210MHz	Pass	4.60	-7.19	-7.19	17.00	-2.59	23.00
5775MHz	Pass	4.60	-1.47	-1.47	30.00	3.13	36.00

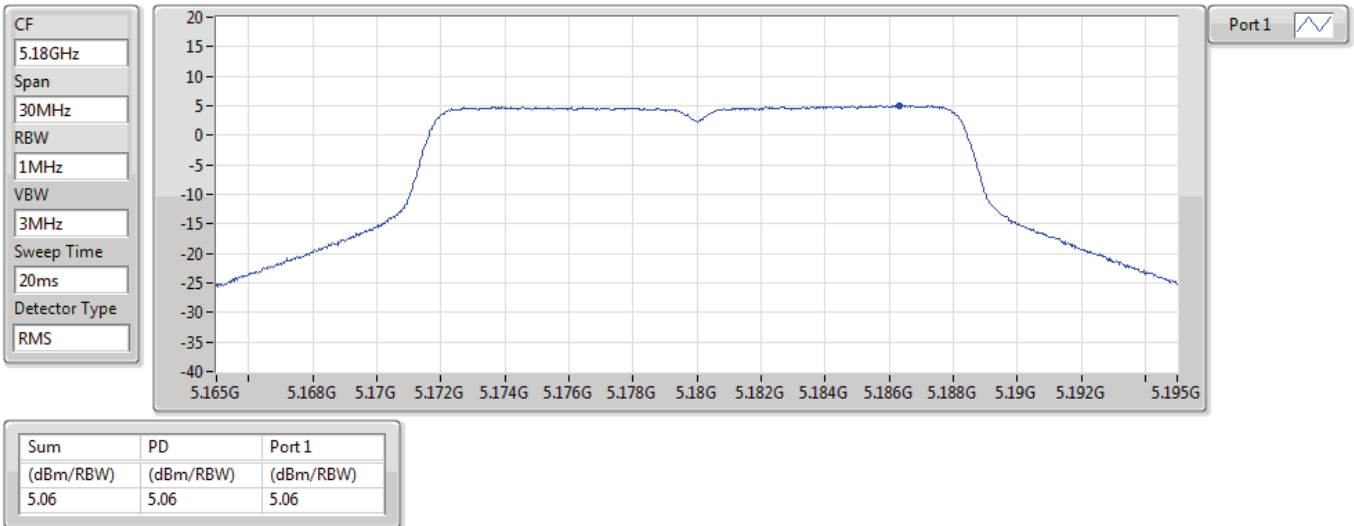
DG = Directional Gain; RBW = 500kHz for 5.725-5.85GHz band / 1MHz for other band;
 PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; Port X = Port X Power Density;

802.11a_Nss1,(6Mbps)_1TX

PSD

5180MHz

26/02/2021

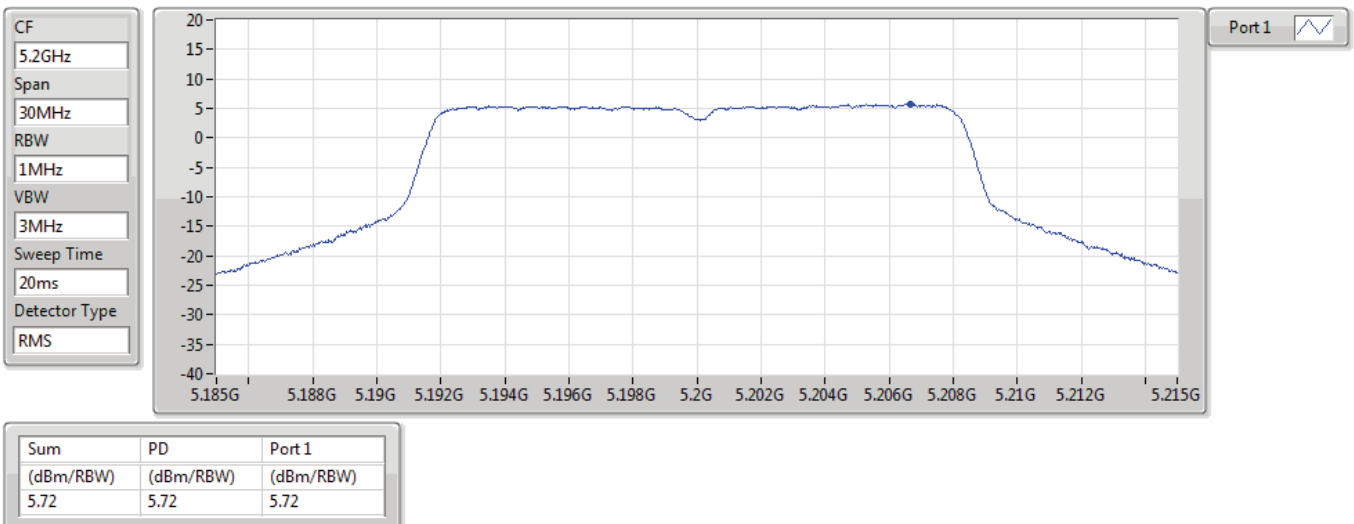


802.11a_Nss1,(6Mbps)_1TX

PSD

5200MHz

26/02/2021

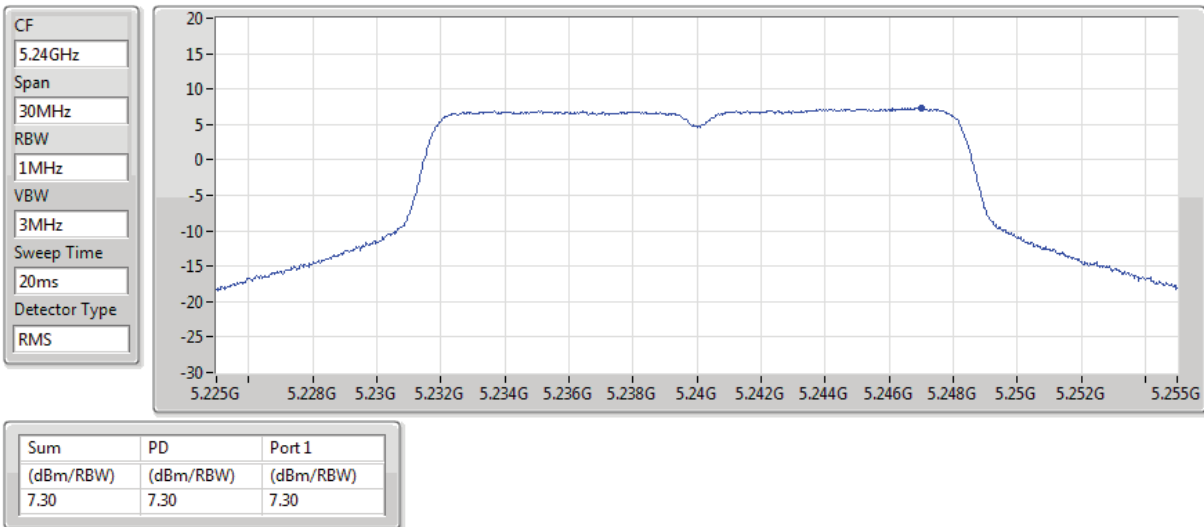


802.11a_Nss1,(6Mbps)_1TX

PSD

5240MHz

26/02/2021

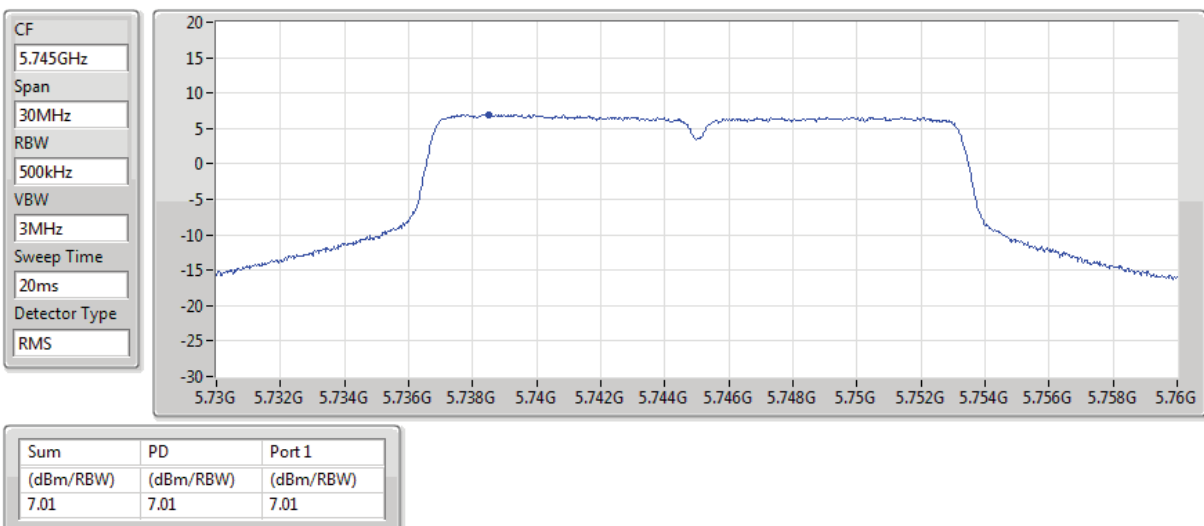


802.11a_Nss1,(6Mbps)_1TX

PSD

5745MHz

26/02/2021

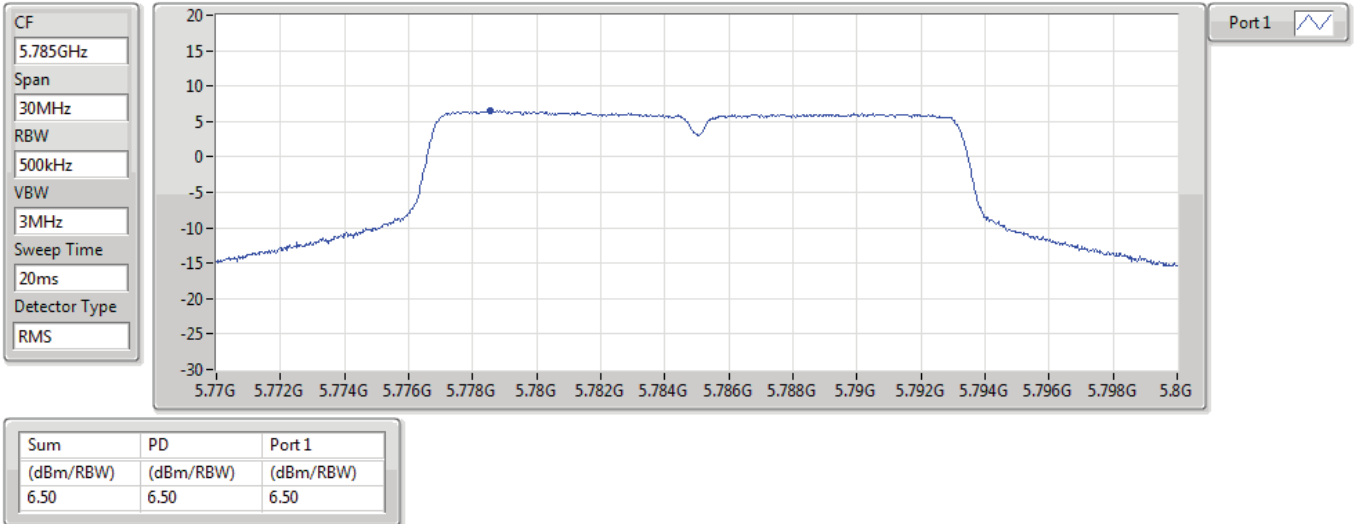


802.11a_Nss1,(6Mbps)_1TX

PSD

5785MHz

26/02/2021

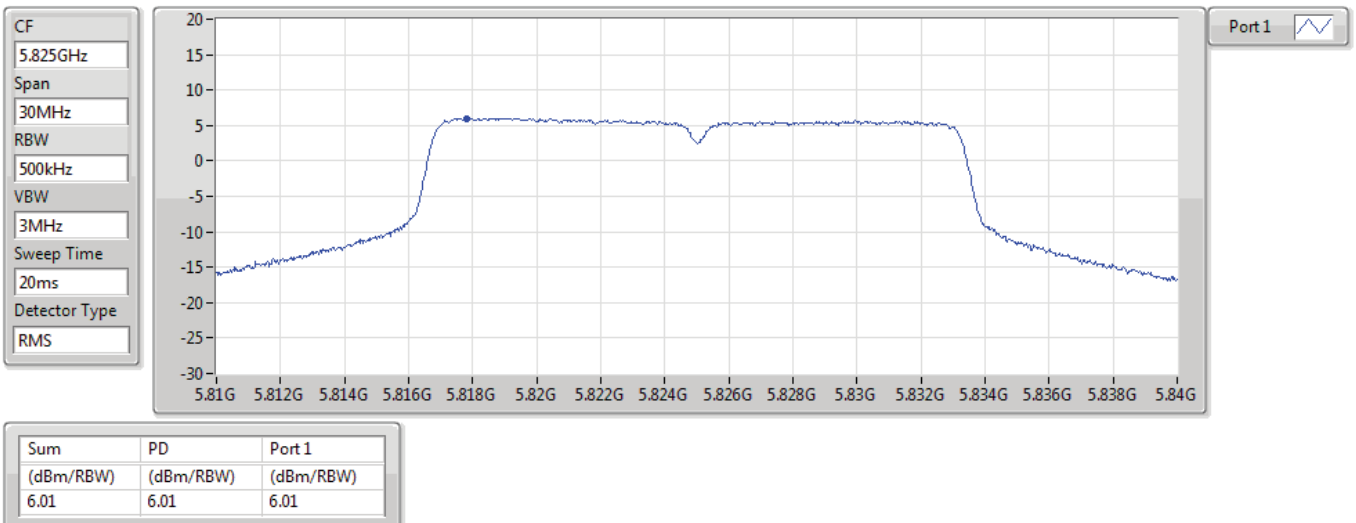


802.11a_Nss1,(6Mbps)_1TX

PSD

5825MHz

26/02/2021

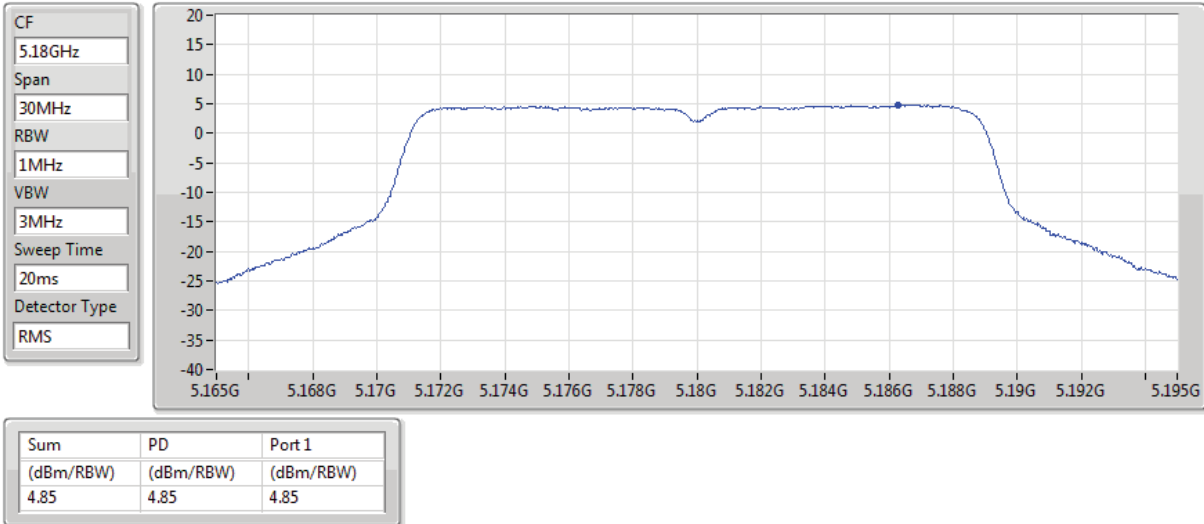


802.11n HT20_Nss1,(MCS0)_1TX

PSD

5180MHz

26/02/2021

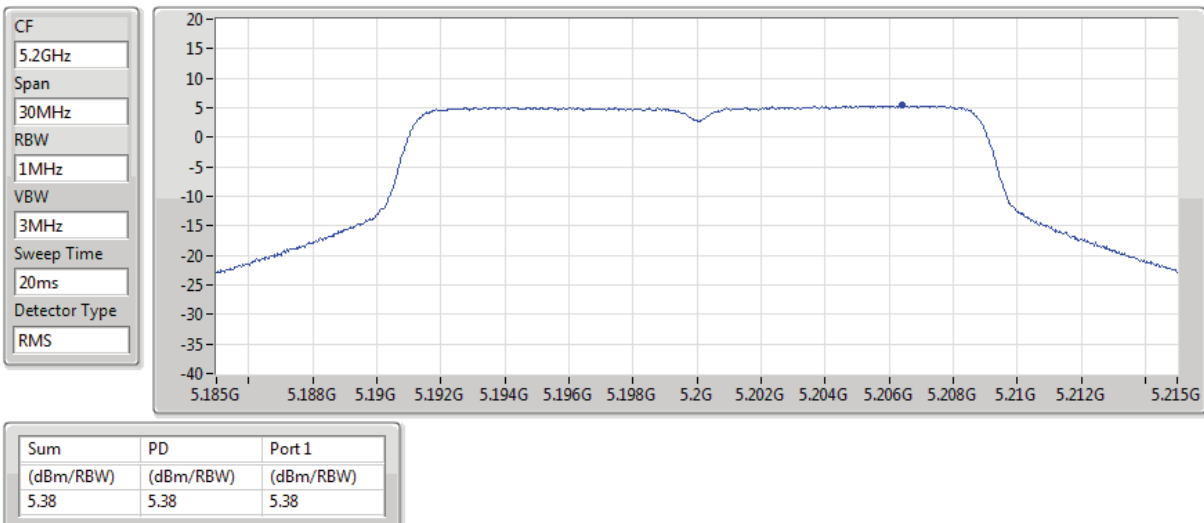


802.11n HT20_Nss1,(MCS0)_1TX

PSD

5200MHz

26/02/2021

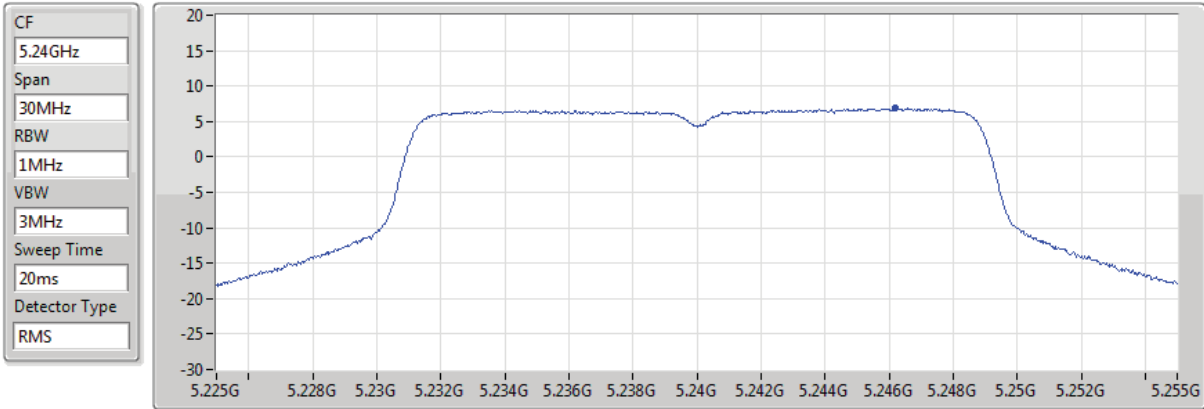


802.11n HT20_Nss1,(MCS0)_1TX

PSD

5240MHz

26/02/2021

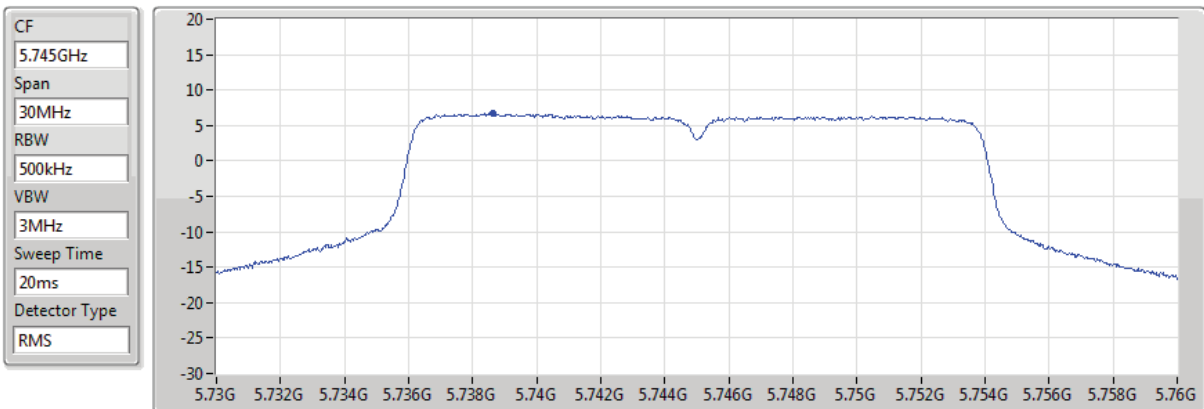


802.11n HT20_Nss1,(MCS0)_1TX

PSD

5745MHz

26/02/2021

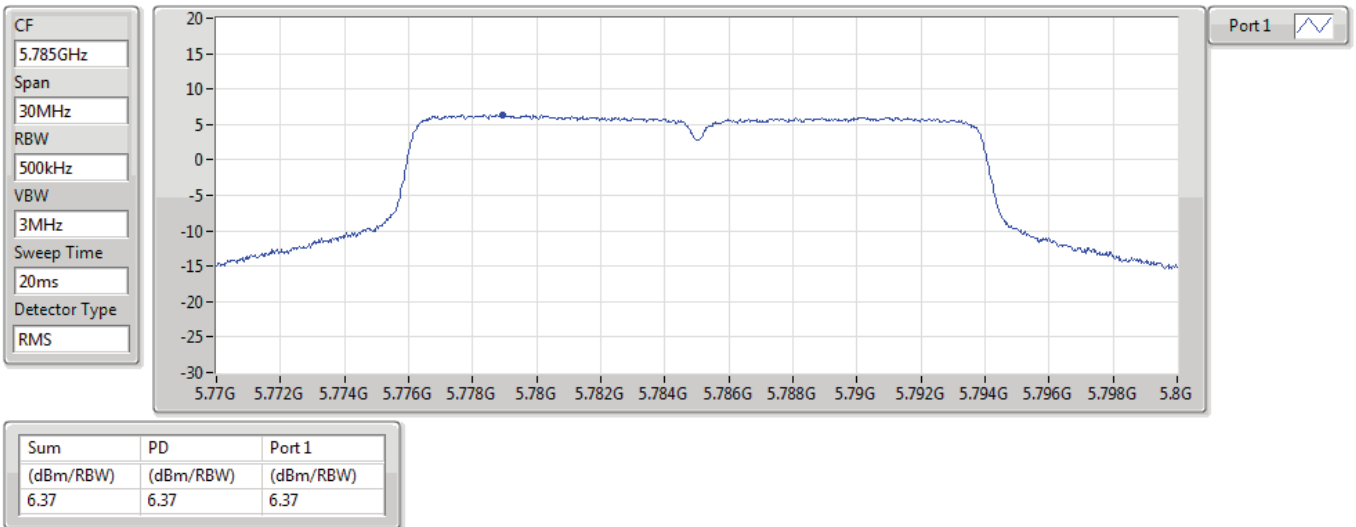


802.11n HT20_Nss1,(MCS0)_1TX

PSD

5785MHz

26/02/2021

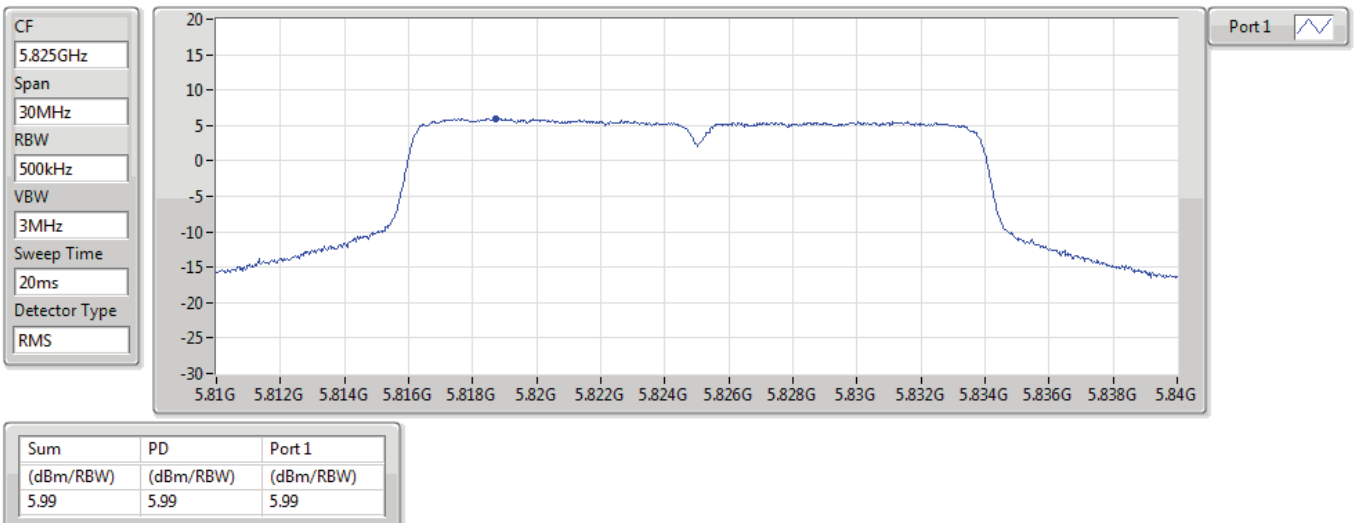


802.11n HT20_Nss1,(MCS0)_1TX

PSD

5825MHz

26/02/2021

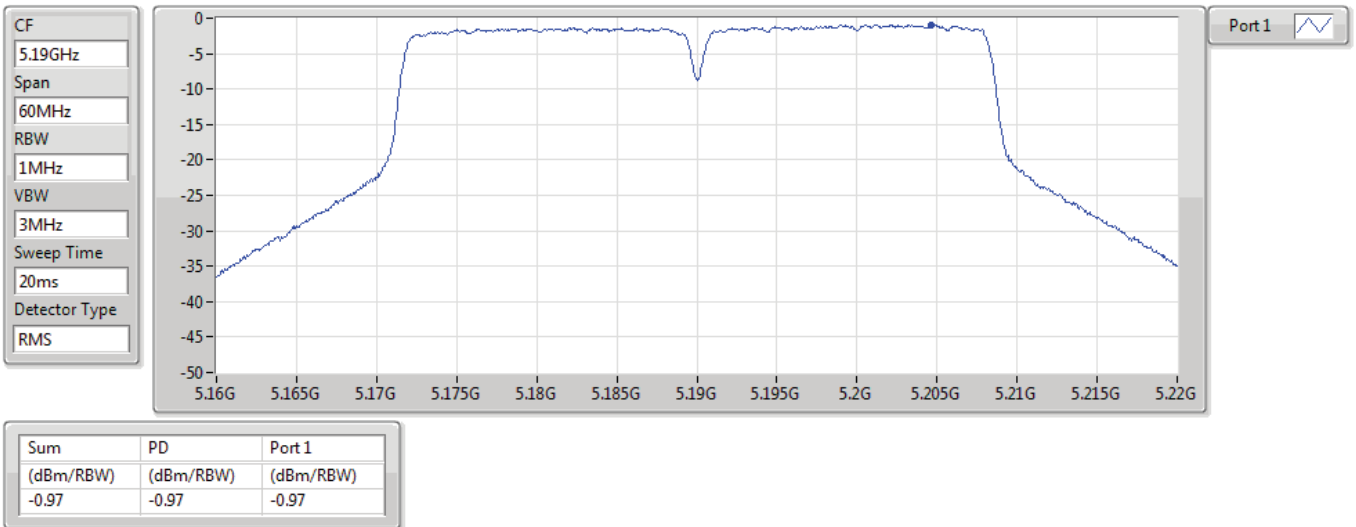


802.11n HT40_Nss1,(MCS0)_1TX

PSD

5190MHz

26/02/2021

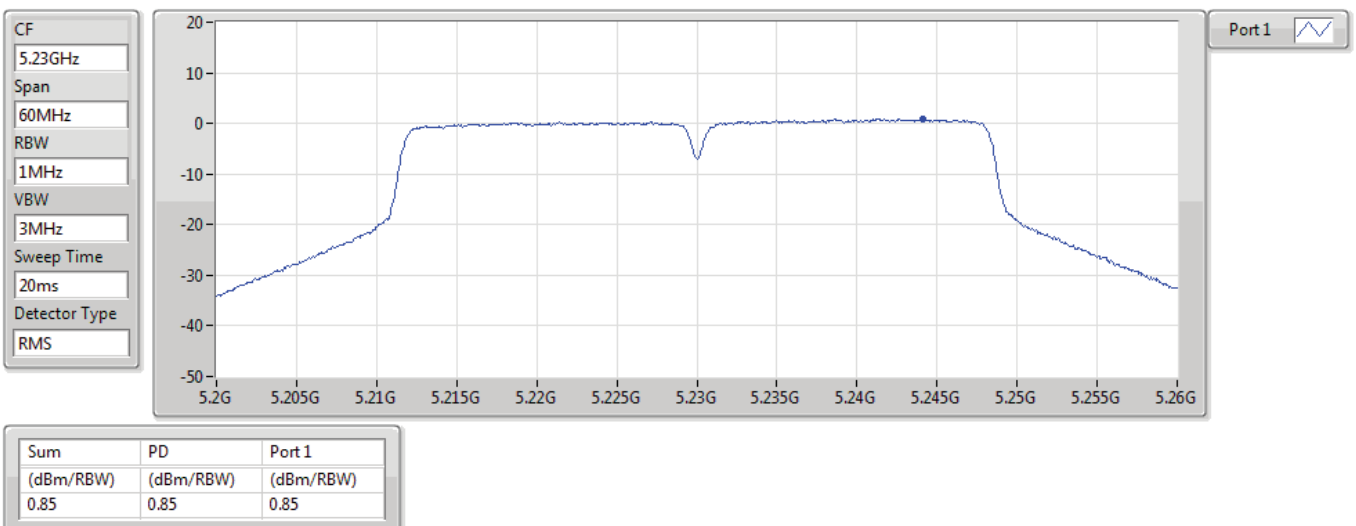


802.11n HT40_Nss1,(MCS0)_1TX

PSD

5230MHz

26/02/2021

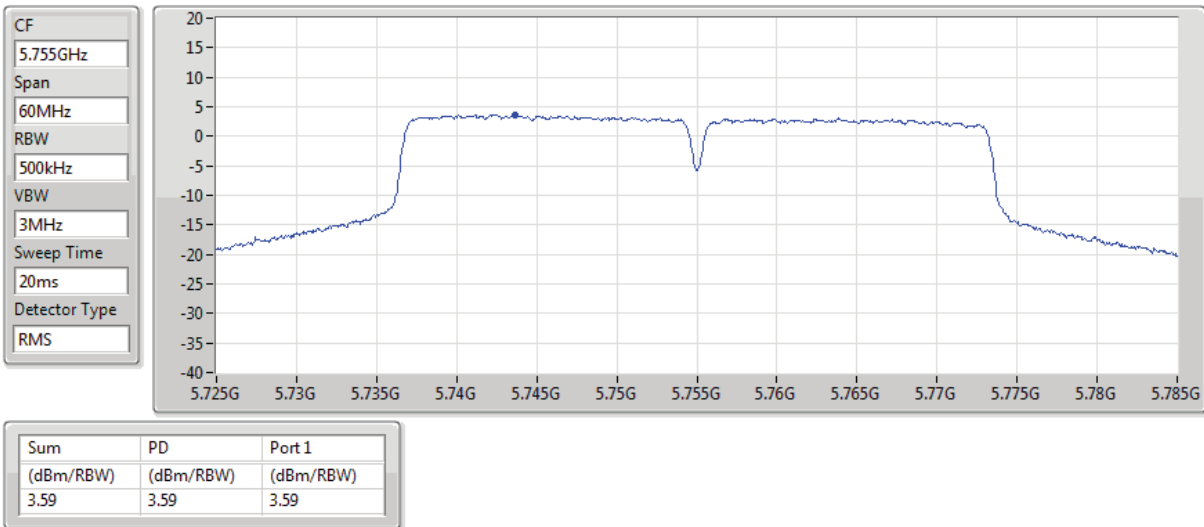


802.11n HT40_Nss1,(MCS0)_1TX

PSD

5755MHz

26/02/2021

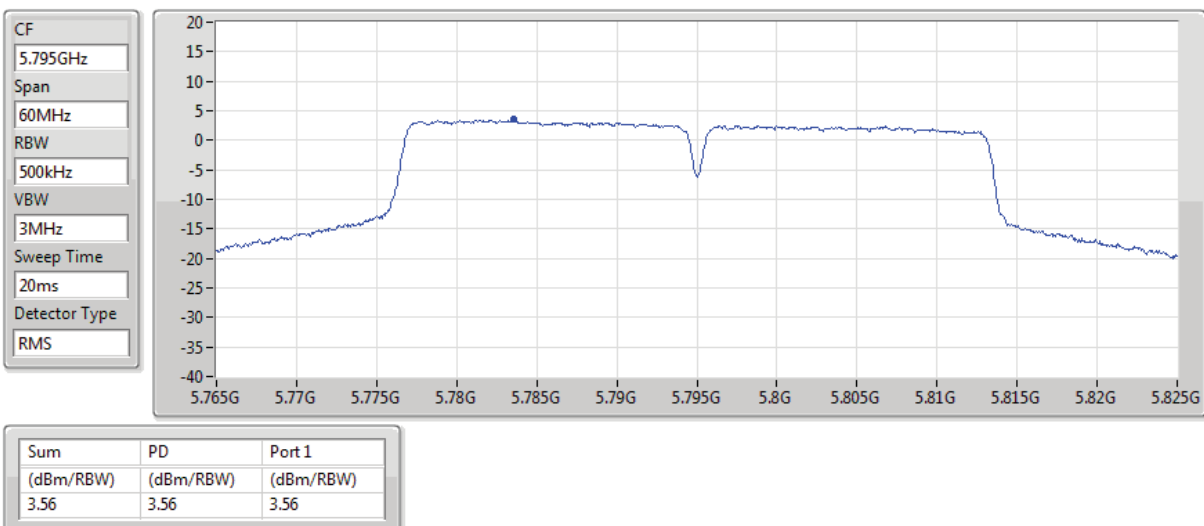


802.11n HT40_Nss1,(MCS0)_1TX

PSD

5795MHz

26/02/2021

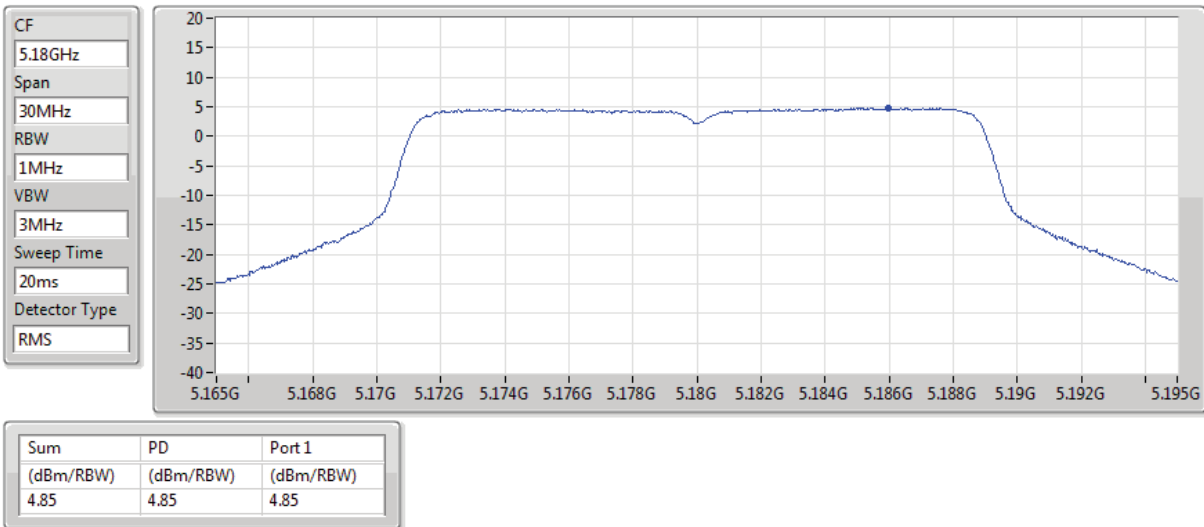


802.11ac VHT20_Nss1,(MCS0)_1TX

PSD

5180MHz

26/02/2021

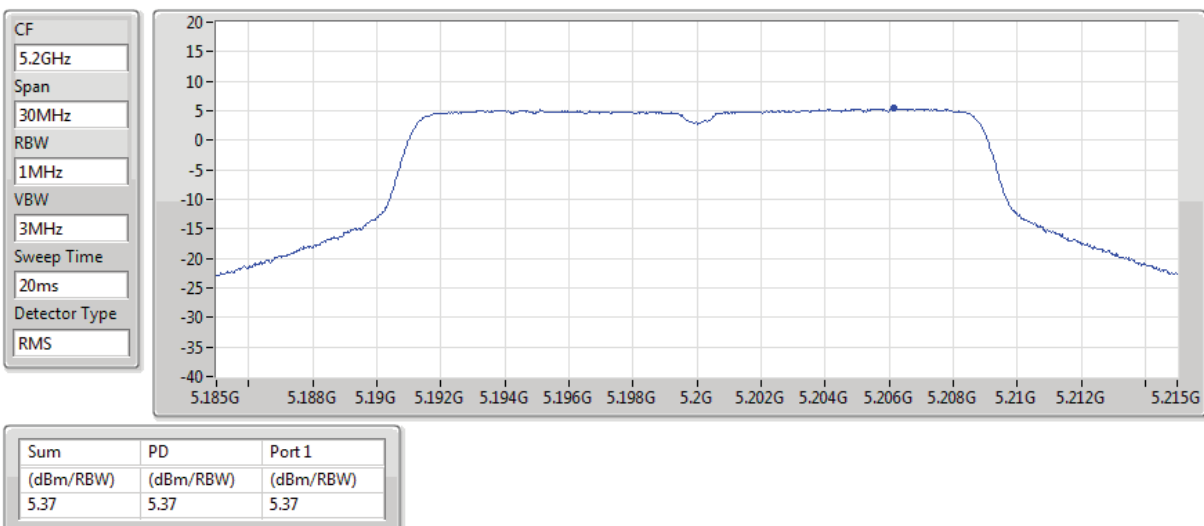


802.11ac VHT20_Nss1,(MCS0)_1TX

PSD

5200MHz

26/02/2021

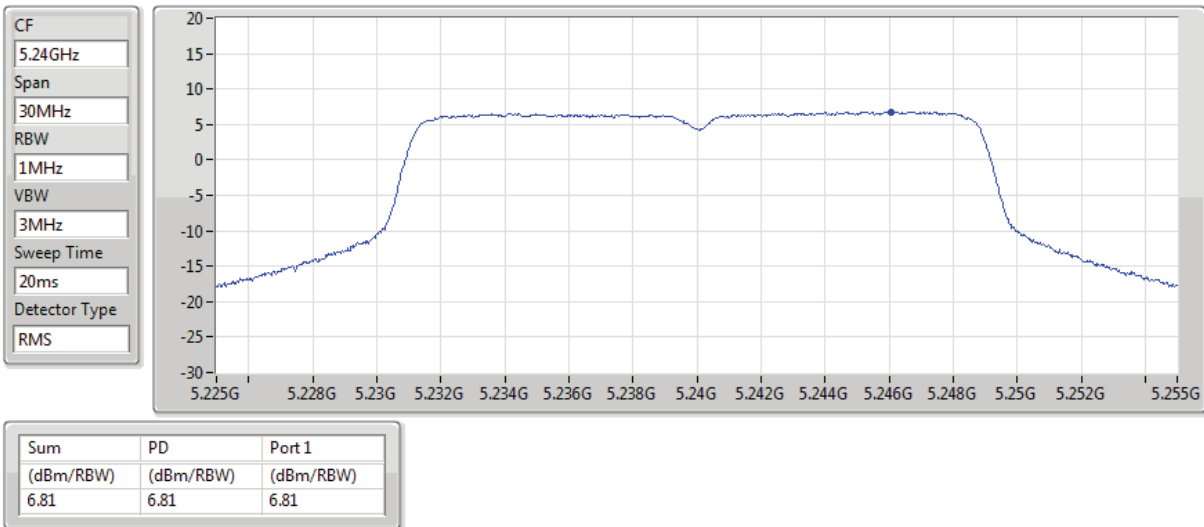


802.11ac VHT20_Nss1,(MCS0)_1TX

PSD

5240MHz

26/02/2021

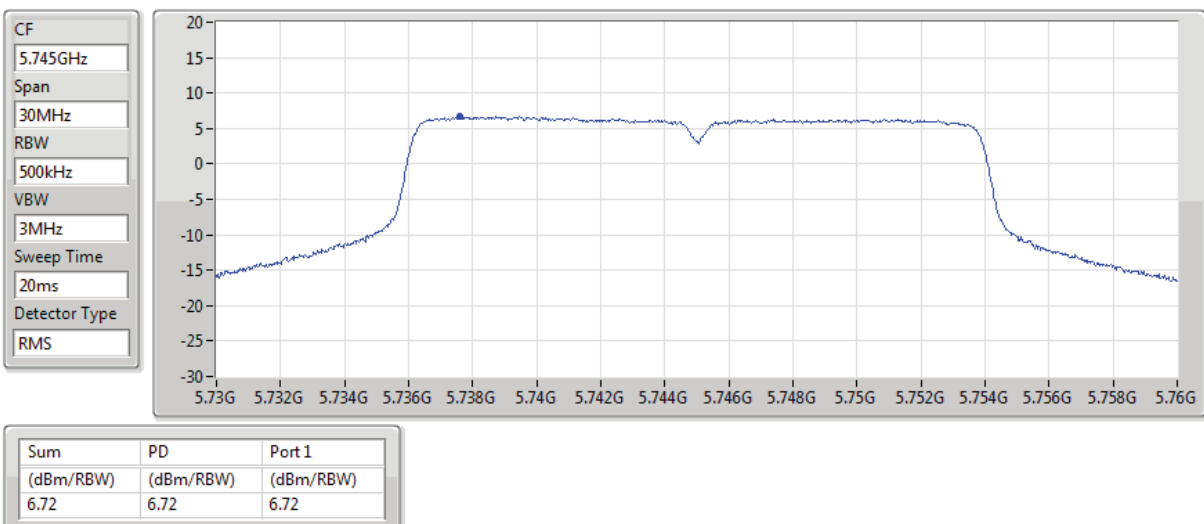


802.11ac VHT20_Nss1,(MCS0)_1TX

PSD

5745MHz

26/02/2021

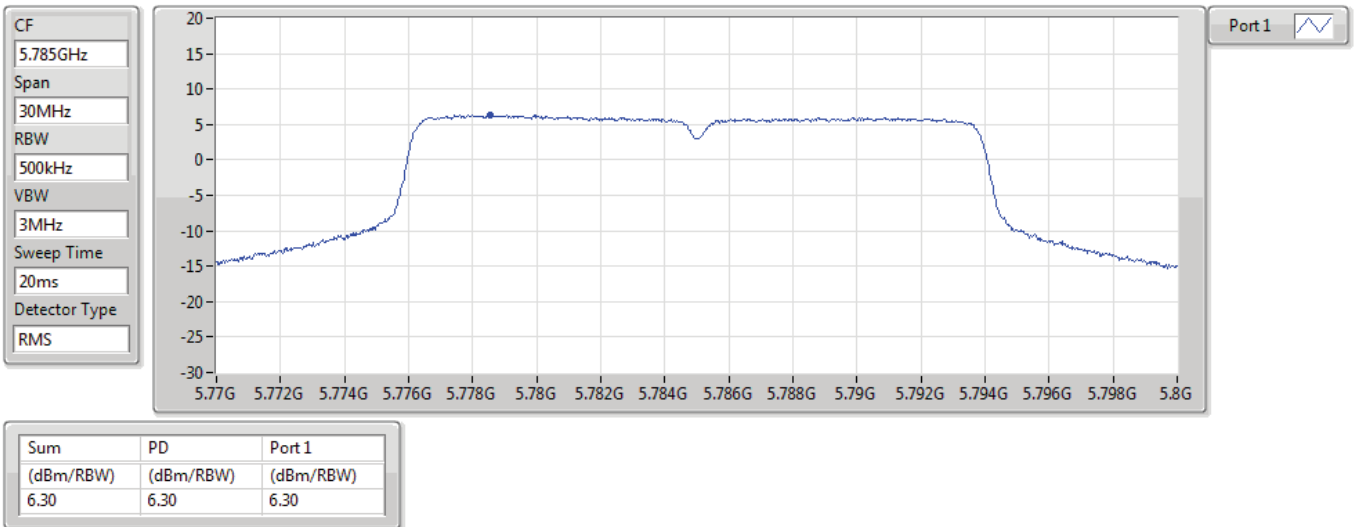


802.11ac VHT20_Nss1,(MCS0)_1TX

PSD

5785MHz

26/02/2021

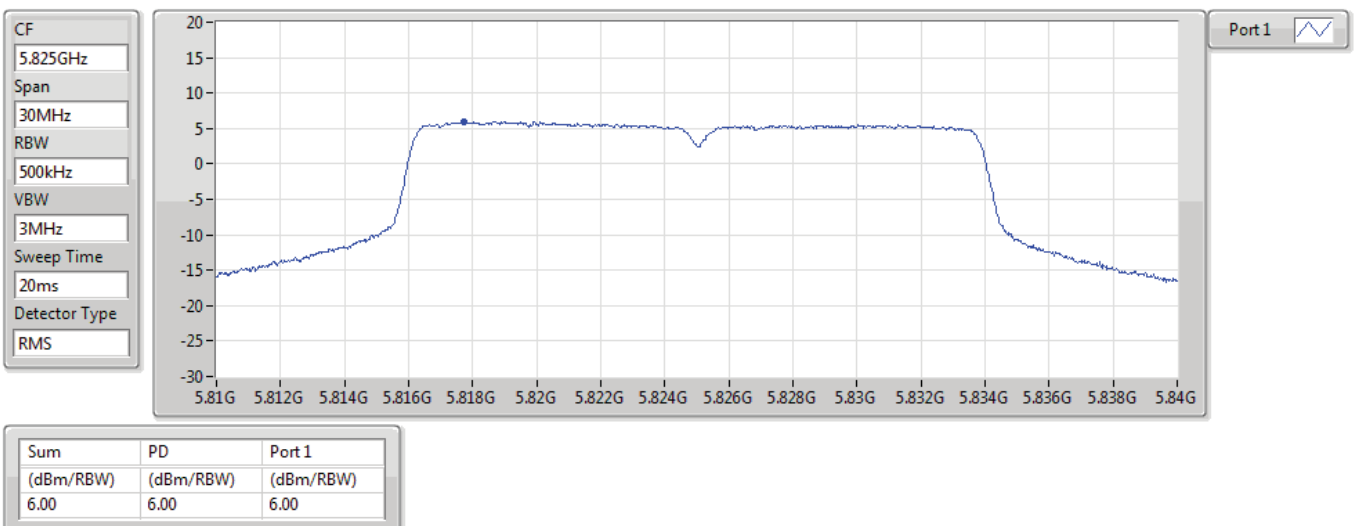


802.11ac VHT20_Nss1,(MCS0)_1TX

PSD

5825MHz

26/02/2021

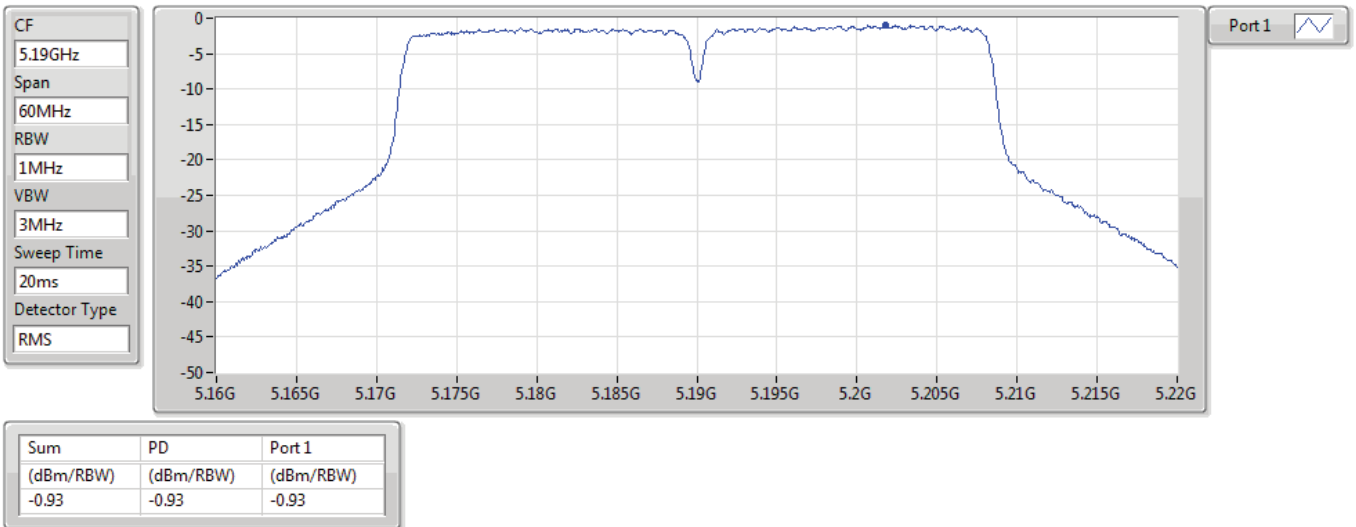


802.11ac VHT40_Nss1,(MCS0)_1TX

PSD

5190MHz

26/02/2021

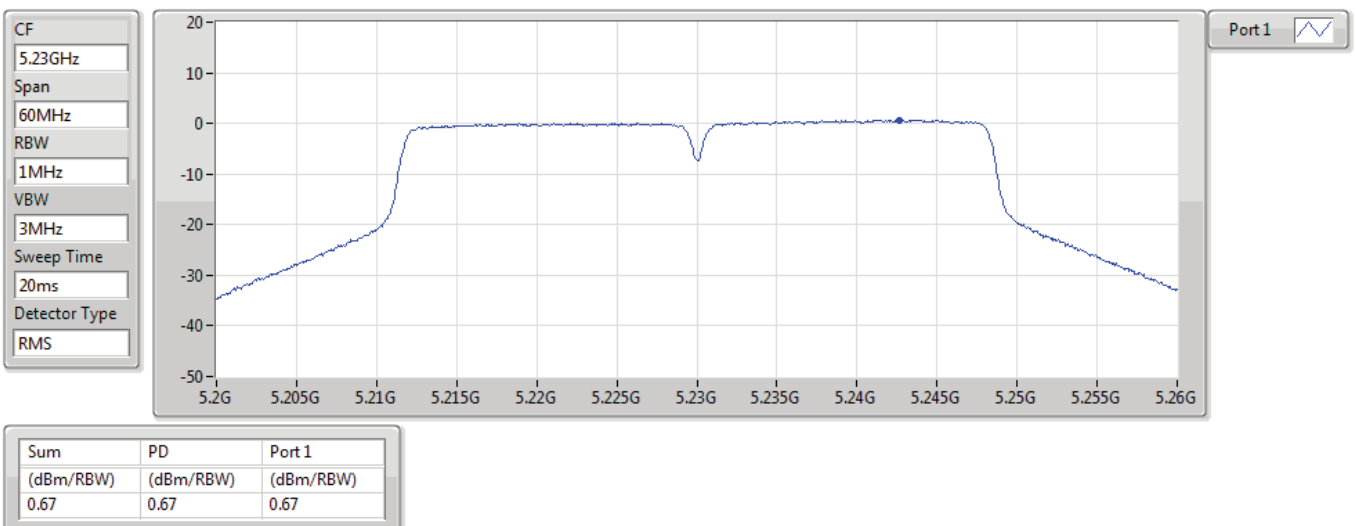


802.11ac VHT40_Nss1,(MCS0)_1TX

PSD

5230MHz

26/02/2021

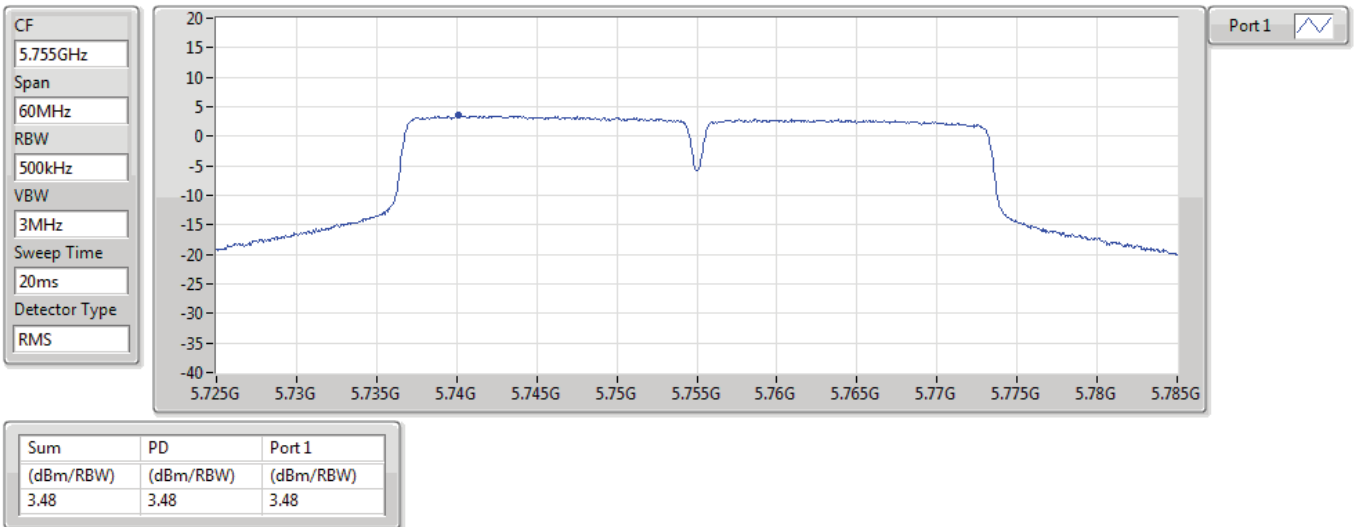


802.11ac VHT40_Nss1,(MCS0)_1TX

PSD

5755MHz

26/02/2021

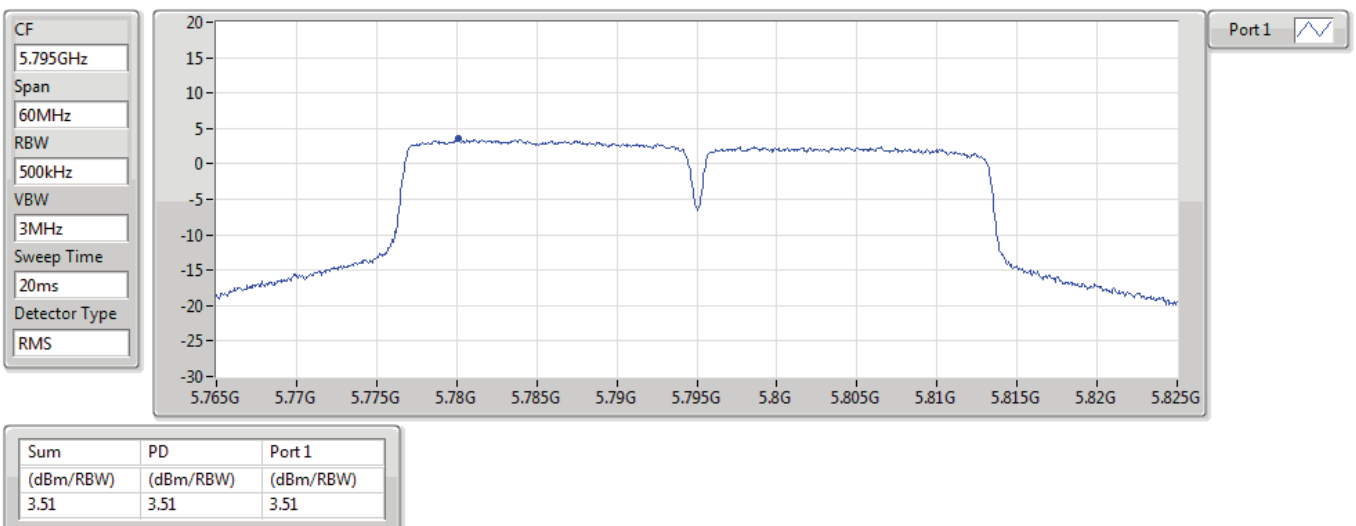


802.11ac VHT40_Nss1,(MCS0)_1TX

PSD

5795MHz

26/02/2021

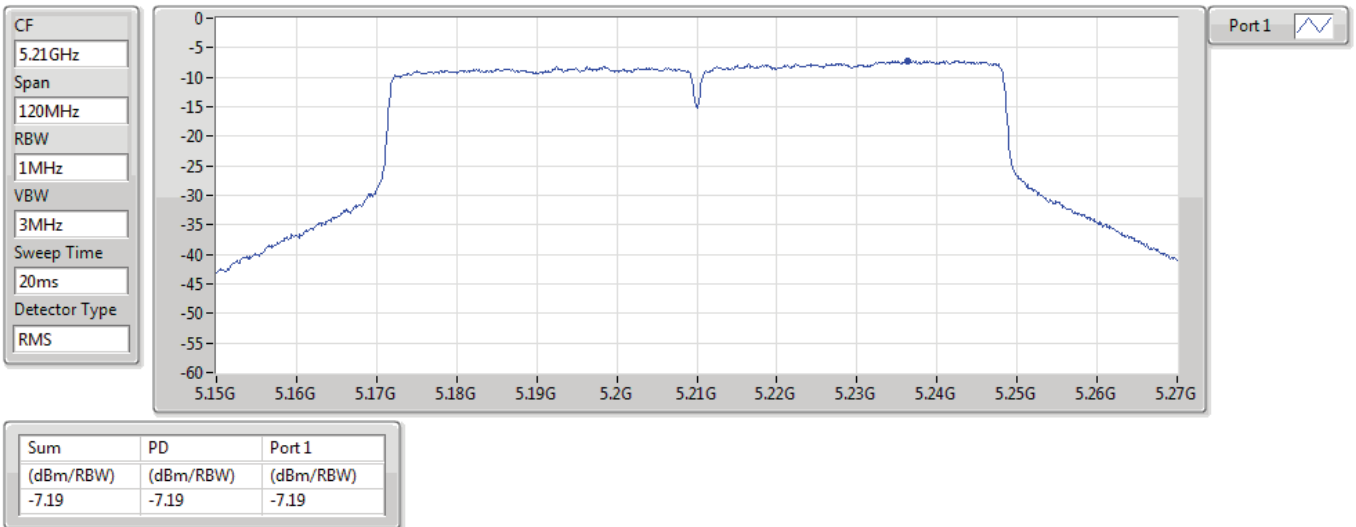


802.11ac VHT80_Nss1,(MCS0)_1TX

PSD

5210MHz

26/02/2021

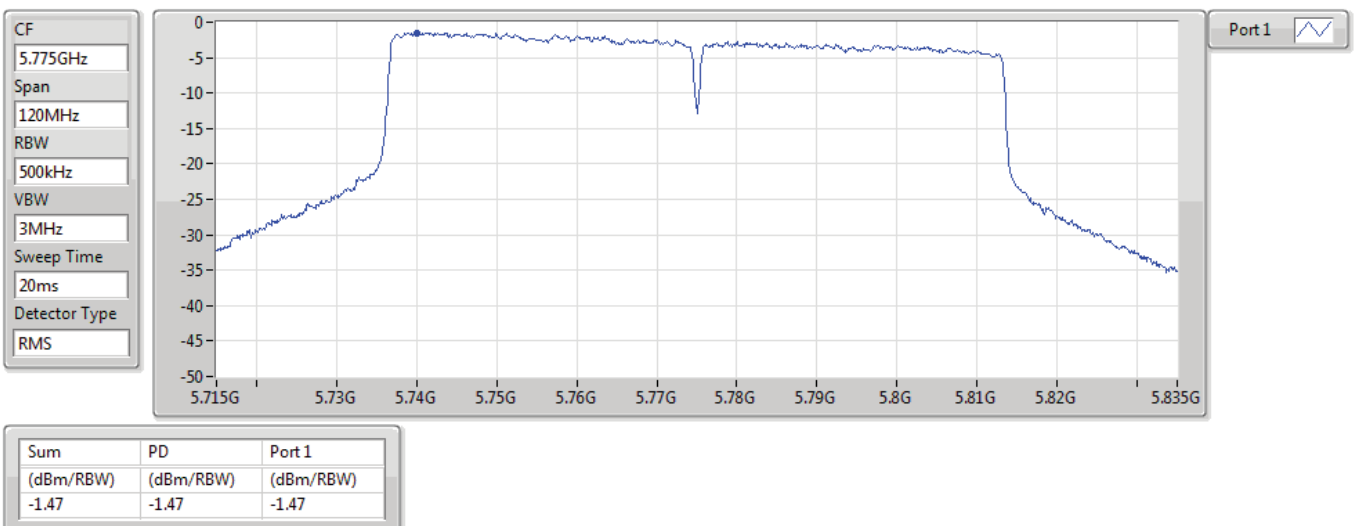


802.11ac VHT80_Nss1,(MCS0)_1TX

PSD

5775MHz

26/02/2021





Summary

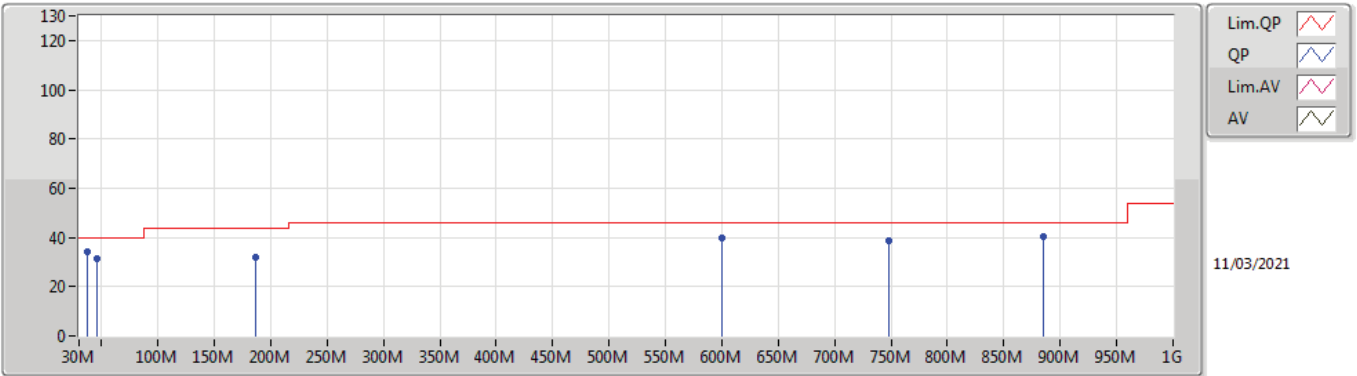
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5.725-5.85GHz	-	-	-	-	-	-	-	-	-	-	-
802.11ax HEW80_Nss1,(MCS0)_4TX	Pass	PK	47.46M	35.50	40.00	-4.50	3	Horizontal	360	1.00	-

**Result**

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
802.11ax HEW80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-	-
5775MHz	Pass	PK	37.76M	34.40	40.00	-5.60	3	Vertical	360	1.00	-
5775MHz	Pass	PK	45.52M	31.56	40.00	-8.44	3	Vertical	360	1.00	-
5775MHz	Pass	PK	187.14M	31.66	43.50	-11.84	3	Vertical	360	1.00	-
5775MHz	Pass	PK	600.36M	39.52	46.00	-6.48	3	Vertical	360	1.00	-
5775MHz	Pass	PK	747.8M	38.81	46.00	-7.19	3	Vertical	360	1.00	-
5775MHz	Pass	PK	885.54M	40.10	46.00	-5.90	3	Vertical	360	1.00	-
5775MHz	Pass	PK	33.88M	30.77	40.00	-9.23	3	Horizontal	0	1.00	-
5775MHz	Pass	PK	47.46M	28.26	40.00	-11.74	3	Horizontal	0	1.00	-
5775MHz	Pass	PK	191.02M	32.47	43.50	-11.03	3	Horizontal	0	1.00	-
5775MHz	Pass	PK	509.18M	32.73	46.00	-13.27	3	Horizontal	0	1.00	-
5775MHz	Pass	PK	600.36M	38.53	46.00	-7.47	3	Horizontal	0	1.00	-
5775MHz	Pass	PK	885.54M	41.45	46.00	-4.55	3	Horizontal	0	1.00	-
5775MHz	Pass	PK	47.46M	34.22	40.00	-5.78	3	Vertical	0	1.00	-
5775MHz	Pass	PK	97.9M	33.77	43.50	-9.73	3	Vertical	0	1.00	-
5775MHz	Pass	PK	334.58M	35.26	46.00	-10.74	3	Vertical	0	1.00	-
5775MHz	Pass	PK	346.22M	34.99	46.00	-11.01	3	Vertical	0	1.00	-
5775MHz	Pass	PK	600.36M	40.02	46.00	-5.98	3	Vertical	0	1.00	-
5775MHz	Pass	QP	31.94M	29.24	40.00	-10.76	3	Vertical	59	1.00	-
5775MHz	Pass	PK	30M	33.70	40.00	-6.30	3	Horizontal	360	1.00	-
5775MHz	Pass	PK	47.46M	35.50	40.00	-4.50	3	Horizontal	360	1.00	-
5775MHz	Pass	PK	187.14M	31.71	43.50	-11.79	3	Horizontal	360	1.00	-
5775MHz	Pass	PK	303.54M	36.31	46.00	-9.69	3	Horizontal	360	1.00	-
5775MHz	Pass	PK	600.36M	37.83	46.00	-8.17	3	Horizontal	360	1.00	-
5775MHz	Pass	PK	976.72M	36.99	54.00	-17.01	3	Horizontal	360	1.00	-

802.11ax HEW80_Nss1,(MCS0)_4TX

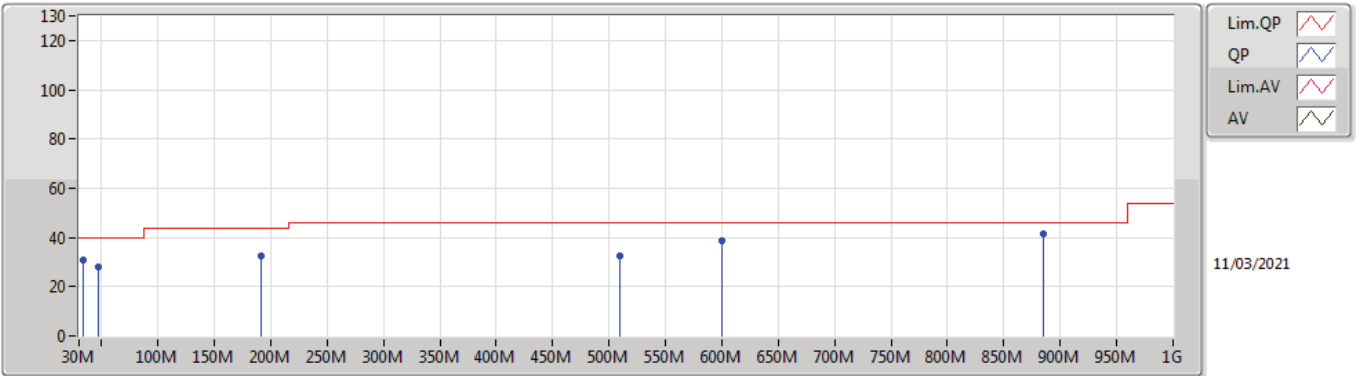
5775MHz_Adapter



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
PK	37.76M	34.40	40.00	-5.60	-7.21	3	Vertical	360	1.00	-	41.61	19.08	0.86	27.15
PK	45.52M	31.56	40.00	-8.44	-11.72	3	Vertical	360	1.00	-	43.28	14.98	0.91	27.61
PK	187.14M	31.66	43.50	-11.84	-11.13	3	Vertical	360	1.00	-	42.79	14.22	2.04	27.39
PK	600.36M	39.52	46.00	-6.48	-0.55	3	Vertical	360	1.00	-	40.07	23.97	3.80	28.32
PK	747.8M	38.81	46.00	-7.19	1.19	3	Vertical	360	1.00	-	37.62	24.89	4.30	28.00
PK	885.54M	40.10	46.00	-5.90	2.86	3	Vertical	360	1.00	-	37.24	25.58	4.74	27.46

802.11ax HEW80_Nss1,(MCS0)_4TX

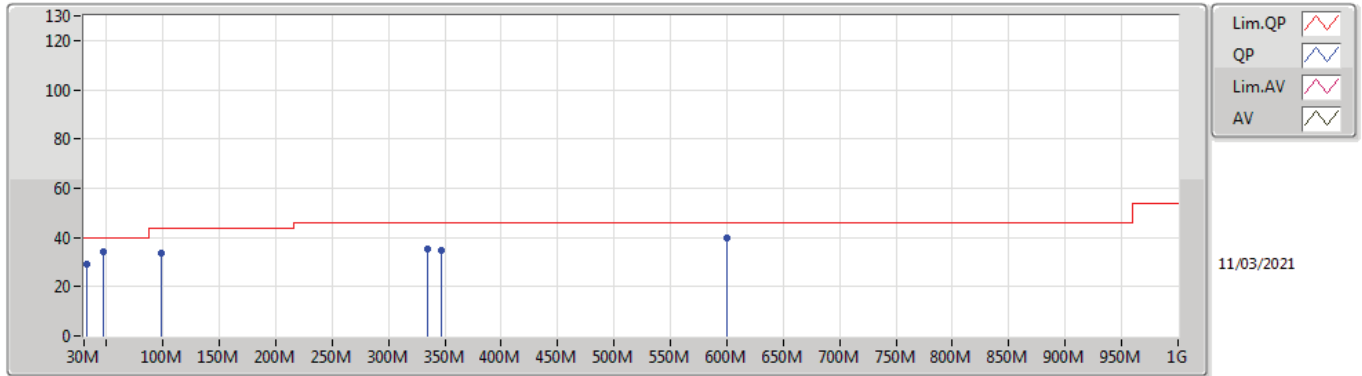
5775MHz_Adapter



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
PK	33.88M	30.77	40.00	-9.23	-4.92	3	Horizontal	0	1.00	-	35.69	21.26	0.78	26.96
PK	47.46M	28.26	40.00	-11.74	-12.65	3	Horizontal	0	1.00	-	40.91	14.05	0.95	27.65
PK	191.02M	32.47	43.50	-11.03	-11.02	3	Horizontal	0	1.00	-	43.49	14.28	2.06	27.36
PK	509.18M	32.73	46.00	-13.27	-1.95	3	Horizontal	0	1.00	-	34.68	22.82	3.52	28.29
PK	600.36M	38.53	46.00	-7.47	-0.55	3	Horizontal	0	1.00	-	39.08	23.97	3.80	28.32
PK	885.54M	41.45	46.00	-4.55	2.86	3	Horizontal	0	1.00	-	38.59	25.58	4.74	27.46

802.11ax HEW80_Nss1,(MCS0)_4TX

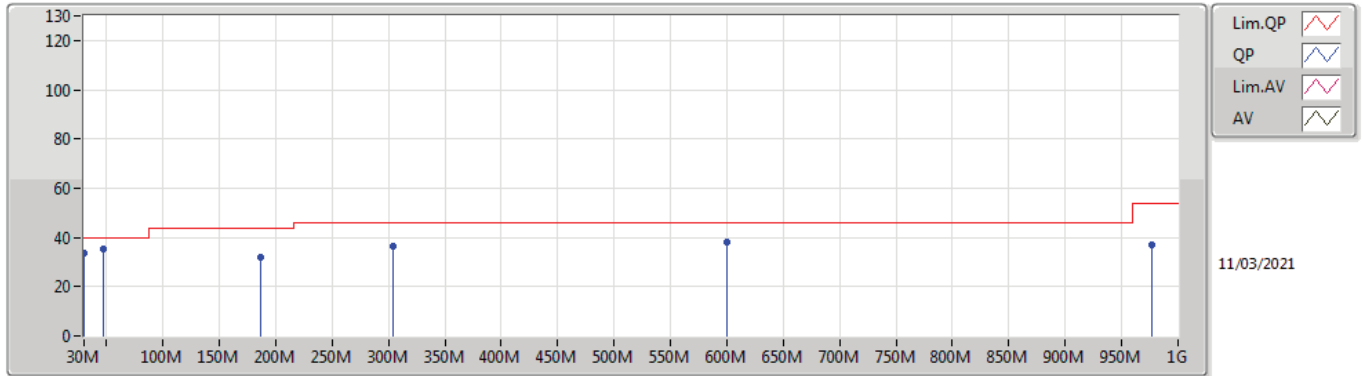
5775MHz_PoE



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
PK	47.46M	34.22	40.00	-5.78	-12.65	3	Vertical	0	1.00	-	46.87	14.05	0.95	27.65
PK	97.9M	33.77	43.50	-9.73	-10.68	3	Vertical	0	1.00	-	44.45	15.70	1.40	27.78
PK	334.58M	35.26	46.00	-10.74	-5.52	3	Vertical	0	1.00	-	40.78	18.97	2.74	27.23
PK	346.22M	34.99	46.00	-11.01	-5.14	3	Vertical	0	1.00	-	40.13	19.38	2.78	27.30
PK	600.36M	40.02	46.00	-5.98	-0.55	3	Vertical	0	1.00	-	40.57	23.97	3.80	28.32
QP	31.94M	29.24	40.00	-10.76	-4.32	3	Vertical	59	1.00	-	33.56	22.03	0.74	27.09

802.11ax HEW80_Nss1,(MCS0)_4TX

5775MHz_PoE



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
PK	30M	33.70	40.00	-6.30	-3.19	3	Horizontal	360	1.00	-	36.89	23.32	0.70	27.21
PK	47.46M	35.50	40.00	-4.50	-12.65	3	Horizontal	360	1.00	-	48.15	14.05	0.95	27.65
PK	187.14M	31.71	43.50	-11.79	-11.13	3	Horizontal	360	1.00	-	42.84	14.22	2.04	27.39
PK	303.54M	36.31	46.00	-9.69	-5.91	3	Horizontal	360	1.00	-	42.22	18.54	2.61	27.06
PK	600.36M	37.83	46.00	-8.17	-0.55	3	Horizontal	360	1.00	-	38.38	23.97	3.80	28.32
PK	976.72M	36.99	54.00	-17.01	4.09	3	Horizontal	360	1.00	-	32.90	26.29	4.95	27.15

**Summary**

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5.15-5.25GHz	-	-	-	-	-	-	-	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	Pass	AV	5.15G	51.77	54.00	-2.23	3	Horizontal	66	1.91	-
802.11ax HEW20_Nss1,(MCS0)_4TX	Pass	AV	5.15G	52.87	54.00	-1.13	3	Horizontal	67	1.83	-
802.11ax HEW40_Nss1,(MCS0)_4TX	Pass	AV	5.15G	52.65	54.00	-1.35	3	Horizontal	309	1.86	-
802.11ax HEW80_Nss1,(MCS0)_4TX	Pass	AV	5.1452G	52.73	54.00	-1.27	3	Horizontal	64	1.29	-
5.725-5.85GHz	-	-	-	-	-	-	-	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	Pass	PK	17.3492G	66.91	68.20	-1.29	3	Horizontal	340	2.48	-
802.11ax HEW20_Nss1,(MCS0)_4TX	Pass	PK	17.35416G	67.14	68.20	-1.06	3	Horizontal	360	1.68	-
802.11ax HEW40_Nss1,(MCS0)_4TX	Pass	PK	17.38452G	66.64	68.20	-1.56	3	Horizontal	55	1.98	-
802.11ax HEW80_Nss1,(MCS0)_4TX	Pass	PK	5.6502G	66.83	68.35	-1.52	3	Horizontal	312	1.50	-

**Result**

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
802.11a_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	AV	5.15G	46.97	54.00	-7.03	3	Vertical	3	2.95	-
5180MHz	Pass	AV	5.174G	103.79	Inf	-Inf	3	Vertical	3	2.95	-
5180MHz	Pass	AV	5.3924G	43.83	54.00	-10.17	3	Vertical	3	2.95	-
5180MHz	Pass	PK	5.15G	58.40	74.00	-15.60	3	Vertical	3	2.95	-
5180MHz	Pass	PK	5.174G	113.28	Inf	-Inf	3	Vertical	3	2.95	-
5180MHz	Pass	PK	5.4704G	54.70	68.20	-13.50	3	Vertical	3	2.95	-
5180MHz	Pass	AV	5.15G	51.77	54.00	-2.23	3	Horizontal	66	1.91	-
5180MHz	Pass	AV	5.1764G	108.88	Inf	-Inf	3	Horizontal	66	1.91	-
5180MHz	Pass	AV	5.366G	44.87	54.00	-9.13	3	Horizontal	66	1.91	-
5180MHz	Pass	PK	5.15G	66.04	74.00	-7.96	3	Horizontal	66	1.91	-
5180MHz	Pass	PK	5.1776G	118.27	Inf	-Inf	3	Horizontal	66	1.91	-
5180MHz	Pass	PK	5.4632G	54.74	68.20	-13.46	3	Horizontal	66	1.91	-
5180MHz	Pass	AV	15.53252G	47.04	54.00	-6.96	3	Vertical	3	1.43	-
5180MHz	Pass	PK	10.35988G	58.83	68.20	-9.37	3	Vertical	354	1.00	-
5180MHz	Pass	PK	15.54396G	60.88	74.00	-13.12	3	Vertical	3	1.43	-
5180MHz	Pass	AV	15.53312G	47.16	54.00	-6.84	3	Horizontal	72	2.78	-
5180MHz	Pass	PK	10.36004G	58.26	68.20	-9.94	3	Horizontal	319	2.08	-
5180MHz	Pass	PK	15.54296G	60.42	74.00	-13.58	3	Horizontal	72	2.78	-
5200MHz	Pass	AV	5.1496G	46.89	54.00	-7.11	3	Vertical	6	2.94	-
5200MHz	Pass	AV	5.2036G	105.04	Inf	-Inf	3	Vertical	6	2.94	-
5200MHz	Pass	AV	5.3704G	43.99	54.00	-10.01	3	Vertical	6	2.94	-
5200MHz	Pass	PK	5.1436G	61.34	74.00	-12.66	3	Vertical	6	2.94	-
5200MHz	Pass	PK	5.2036G	114.32	Inf	-Inf	3	Vertical	6	2.94	-
5200MHz	Pass	PK	5.4868G	55.43	68.20	-12.77	3	Vertical	6	2.94	-
5200MHz	Pass	AV	5.1484G	47.45	54.00	-6.55	3	Horizontal	67	1.81	-
5200MHz	Pass	AV	5.2072G	110.12	Inf	-Inf	3	Horizontal	67	1.81	-
5200MHz	Pass	AV	5.3992G	44.30	54.00	-9.70	3	Horizontal	67	1.81	-
5200MHz	Pass	PK	5.1496G	59.39	74.00	-14.61	3	Horizontal	67	1.81	-
5200MHz	Pass	PK	5.2072G	119.36	Inf	-Inf	3	Horizontal	67	1.81	-
5200MHz	Pass	PK	5.47G	55.65	68.20	-12.55	3	Horizontal	67	1.81	-
5200MHz	Pass	AV	15.59344G	46.53	54.00	-7.47	3	Vertical	10	1.01	-
5200MHz	Pass	PK	10.40008G	58.00	68.20	-10.20	3	Vertical	44	1.50	-
5200MHz	Pass	PK	15.59728G	59.97	74.00	-14.03	3	Vertical	10	1.01	-
5200MHz	Pass	AV	15.60132G	46.74	54.00	-7.26	3	Horizontal	40	1.78	-
5200MHz	Pass	PK	10.39456G	62.65	68.20	-5.55	3	Horizontal	300	1.63	-
5200MHz	Pass	PK	15.60044G	60.73	74.00	-13.27	3	Horizontal	40	1.78	-
5240MHz	Pass	AV	5.1452G	48.60	54.00	-5.40	3	Vertical	16	2.70	-
5240MHz	Pass	AV	5.2412G	105.85	Inf	-Inf	3	Vertical	16	2.70	-
5240MHz	Pass	AV	5.35G	47.04	54.00	-6.96	3	Vertical	16	2.70	-
5240MHz	Pass	PK	5.1464G	63.90	74.00	-10.10	3	Vertical	16	2.70	-
5240MHz	Pass	PK	5.2412G	114.86	Inf	-Inf	3	Vertical	16	2.70	-
5240MHz	Pass	PK	5.4908G	55.47	68.20	-12.73	3	Vertical	16	2.70	-
5240MHz	Pass	AV	5.1476G	51.35	54.00	-2.65	3	Horizontal	305	1.16	-
5240MHz	Pass	AV	5.2328G	109.38	Inf	-Inf	3	Horizontal	305	1.16	-
5240MHz	Pass	AV	5.35G	48.15	54.00	-5.85	3	Horizontal	305	1.16	-
5240MHz	Pass	PK	5.1476G	65.44	74.00	-8.56	3	Horizontal	305	1.16	-
5240MHz	Pass	PK	5.2328G	118.71	Inf	-Inf	3	Horizontal	305	1.16	-
5240MHz	Pass	PK	5.4872G	55.79	68.20	-12.41	3	Horizontal	305	1.16	-
5240MHz	Pass	AV	15.71864G	48.78	54.00	-5.22	3	Vertical	360	2.80	-
5240MHz	Pass	PK	10.48048G	62.05	68.20	-6.15	3	Vertical	360	1.20	-
5240MHz	Pass	PK	15.71792G	61.50	74.00	-12.50	3	Vertical	360	2.80	-
5240MHz	Pass	AV	15.71948G	50.48	54.00	-3.52	3	Horizontal	29	1.46	-
5240MHz	Pass	PK	10.47436G	64.11	68.20	-4.09	3	Horizontal	302	1.57	-
5240MHz	Pass	PK	15.71928G	64.61	74.00	-9.39	3	Horizontal	29	1.46	-
5745MHz	Pass	AV	5.7426G	105.51	Inf	-Inf	3	Vertical	360	2.98	-
5745MHz	Pass	PK	5.5602G	56.83	68.20	-11.37	3	Vertical	360	2.98	-
5745MHz	Pass	PK	5.7426G	114.96	Inf	-Inf	3	Vertical	360	2.98	-
5745MHz	Pass	PK	5.997G	57.27	68.20	-10.93	3	Vertical	360	2.98	-
5745MHz	Pass	AV	5.7462G	107.53	Inf	-Inf	3	Horizontal	330	1.60	-
5745MHz	Pass	PK	5.6406G	57.85	68.20	-10.35	3	Horizontal	330	1.60	-



RSE TX above 1GHz_Non-Beamforming_Radio1_4T1S

Appendix E.2

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5745MHz	Pass	PK	5.7474G	117.03	Inf	-Inf	3	Horizontal	330	1.60	-
5745MHz	Pass	PK	5.9922G	57.29	68.20	-10.91	3	Horizontal	330	1.60	-
5745MHz	Pass	AV	11.49224G	44.91	54.00	-9.09	3	Vertical	307	1.14	-
5745MHz	Pass	PK	11.49112G	58.15	74.00	-15.85	3	Vertical	307	1.14	-
5745MHz	Pass	PK	17.2348G	65.64	68.20	-2.56	3	Vertical	352	2.19	-
5745MHz	Pass	AV	11.49004G	44.11	54.00	-9.89	3	Horizontal	299	1.00	-
5745MHz	Pass	PK	11.4932G	57.55	74.00	-16.45	3	Horizontal	299	1.00	-
5745MHz	Pass	PK	17.23212G	66.88	68.20	-1.32	3	Horizontal	325	1.97	-
5785MHz	Pass	AV	5.791G	104.28	Inf	-Inf	3	Vertical	20	2.92	-
5785MHz	Pass	PK	5.5498G	56.53	68.20	-11.67	3	Vertical	20	2.92	-
5785MHz	Pass	PK	5.791G	114.28	Inf	-Inf	3	Vertical	20	2.92	-
5785MHz	Pass	PK	6.0058G	57.03	68.20	-11.17	3	Vertical	20	2.92	-
5785MHz	Pass	AV	5.7814G	105.59	Inf	-Inf	3	Horizontal	62	2.72	-
5785MHz	Pass	PK	5.5798G	57.88	68.20	-10.32	3	Horizontal	62	2.72	-
5785MHz	Pass	PK	5.7814G	114.80	Inf	-Inf	3	Horizontal	62	2.72	-
5785MHz	Pass	PK	5.929G	57.33	68.20	-10.87	3	Horizontal	62	2.72	-
5785MHz	Pass	AV	11.56996G	43.94	54.00	-10.06	3	Vertical	311	1.41	-
5785MHz	Pass	PK	11.56084G	55.08	74.00	-18.92	3	Vertical	311	1.41	-
5785MHz	Pass	PK	17.35068G	65.29	68.20	-2.91	3	Vertical	15	1.85	-
5785MHz	Pass	AV	11.56984G	43.59	54.00	-10.41	3	Horizontal	330	1.38	-
5785MHz	Pass	PK	11.57184G	55.40	74.00	-18.60	3	Horizontal	330	1.38	-
5785MHz	Pass	PK	17.3492G	66.91	68.20	-1.29	3	Horizontal	340	2.48	-
5825MHz	Pass	AV	5.8202G	101.62	Inf	-Inf	3	Vertical	346	2.22	-
5825MHz	Pass	PK	5.5394G	56.94	68.20	-11.26	3	Vertical	346	2.22	-
5825MHz	Pass	PK	5.8202G	111.04	Inf	-Inf	3	Vertical	346	2.22	-
5825MHz	Pass	PK	5.9558G	57.49	68.20	-10.71	3	Vertical	346	2.22	-
5825MHz	Pass	AV	5.8214G	109.23	Inf	-Inf	3	Horizontal	304	1.82	-
5825MHz	Pass	PK	5.6294G	58.69	68.20	-9.51	3	Horizontal	304	1.82	-
5825MHz	Pass	PK	5.8214G	119.18	Inf	-Inf	3	Horizontal	304	1.82	-
5825MHz	Pass	PK	5.987G	57.91	68.20	-10.29	3	Horizontal	304	1.82	-
5825MHz	Pass	AV	11.64988G	44.38	54.00	-9.62	3	Vertical	25	1.00	-
5825MHz	Pass	PK	11.65068G	56.82	74.00	-17.18	3	Vertical	25	1.00	-
5825MHz	Pass	PK	17.47472G	66.04	68.20	-2.16	3	Vertical	15	2.08	-
5825MHz	Pass	AV	11.64996G	43.82	54.00	-10.18	3	Horizontal	27	1.09	-
5825MHz	Pass	PK	11.65012G	55.07	74.00	-18.93	3	Horizontal	27	1.09	-
5825MHz	Pass	PK	17.47348G	65.91	68.20	-2.29	3	Horizontal	30	1.47	-
802.11ax HEW20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	AV	5.1488G	48.61	54.00	-5.39	3	Vertical	27	2.86	-
5180MHz	Pass	AV	5.186G	102.70	Inf	-Inf	3	Vertical	27	2.86	-
5180MHz	Pass	AV	5.3792G	43.65	54.00	-10.35	3	Vertical	27	2.86	-
5180MHz	Pass	PK	5.1476G	61.31	74.00	-12.69	3	Vertical	27	2.86	-
5180MHz	Pass	PK	5.186G	114.18	Inf	-Inf	3	Vertical	27	2.86	-
5180MHz	Pass	PK	5.474G	55.37	68.20	-12.83	3	Vertical	27	2.86	-
5180MHz	Pass	AV	5.15G	52.87	54.00	-1.13	3	Horizontal	67	1.83	-
5180MHz	Pass	AV	5.1728G	107.45	Inf	-Inf	3	Horizontal	67	1.83	-
5180MHz	Pass	AV	5.3648G	44.53	54.00	-9.47	3	Horizontal	67	1.83	-
5180MHz	Pass	PK	5.15G	64.95	74.00	-9.05	3	Horizontal	67	1.83	-
5180MHz	Pass	PK	5.1716G	119.42	Inf	-Inf	3	Horizontal	67	1.83	-
5180MHz	Pass	PK	5.4608G	55.45	68.20	-12.75	3	Horizontal	67	1.83	-
5180MHz	Pass	AV	15.53356G	44.38	54.00	-9.62	3	Vertical	0	1.50	-
5180MHz	Pass	PK	10.35996G	58.06	68.20	-10.14	3	Vertical	31	2.77	-
5180MHz	Pass	PK	15.54224G	57.11	74.00	-16.89	3	Vertical	0	1.50	-
5180MHz	Pass	AV	15.54136G	44.67	54.00	-9.33	3	Horizontal	319	2.46	-
5180MHz	Pass	PK	10.35888G	61.07	68.20	-7.13	3	Horizontal	72	2.14	-
5180MHz	Pass	PK	15.5368G	56.65	74.00	-17.35	3	Horizontal	319	2.46	-
5200MHz	Pass	AV	5.0032G	47.15	54.00	-6.85	3	Vertical	7	2.91	-
5200MHz	Pass	AV	5.1964G	107.25	Inf	-Inf	3	Vertical	7	2.91	-
5200MHz	Pass	AV	5.3968G	46.20	54.00	-7.80	3	Vertical	7	2.91	-
5200MHz	Pass	PK	5.0416G	59.14	74.00	-14.86	3	Vertical	7	2.91	-
5200MHz	Pass	PK	5.1976G	117.65	Inf	-Inf	3	Vertical	7	2.91	-
5200MHz	Pass	PK	5.4928G	57.67	68.20	-10.53	3	Vertical	7	2.91	-
5200MHz	Pass	AV	5.1472G	48.19	54.00	-5.81	3	Horizontal	306	1.78	-



RSE TX above 1GHz Non-Beamforming Radio1 4T1S

Appendix E.2

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5200MHz	Pass	AV	5.194G	108.58	Inf	-Inf	3	Horizontal	306	1.78	-
5200MHz	Pass	AV	5.3872G	47.64	54.00	-6.36	3	Horizontal	306	1.78	-
5200MHz	Pass	PK	5.1436G	60.77	74.00	-13.23	3	Horizontal	306	1.78	-
5200MHz	Pass	PK	5.194G	120.20	Inf	-Inf	3	Horizontal	306	1.78	-
5200MHz	Pass	PK	5.4868G	57.67	68.20	-10.53	3	Horizontal	306	1.78	-
5200MHz	Pass	AV	15.59932G	45.12	54.00	-8.88	3	Vertical	20	1.56	-
5200MHz	Pass	PK	10.3964G	59.67	68.20	-8.53	3	Vertical	340	1.41	-
5200MHz	Pass	PK	15.59936G	58.90	74.00	-15.10	3	Vertical	20	1.56	-
5200MHz	Pass	AV	15.59404G	46.08	54.00	-7.92	3	Horizontal	360	1.50	-
5200MHz	Pass	PK	10.39664G	64.12	68.20	-4.08	3	Horizontal	71	1.64	-
5200MHz	Pass	PK	15.59324G	60.44	74.00	-13.56	3	Horizontal	360	1.50	-
5240MHz	Pass	AV	5.1464G	49.10	54.00	-4.90	3	Vertical	4	2.90	-
5240MHz	Pass	AV	5.2412G	109.96	Inf	-Inf	3	Vertical	4	2.90	-
5240MHz	Pass	AV	5.35G	47.68	54.00	-6.32	3	Vertical	4	2.90	-
5240MHz	Pass	PK	5.1452G	60.37	74.00	-13.63	3	Vertical	4	2.90	-
5240MHz	Pass	PK	5.24G	120.01	Inf	-Inf	3	Vertical	4	2.90	-
5240MHz	Pass	PK	5.5208G	58.52	68.20	-9.68	3	Vertical	4	2.90	-
5240MHz	Pass	AV	5.144G	51.23	54.00	-2.77	3	Horizontal	313	2.89	-
5240MHz	Pass	AV	5.2412G	111.30	Inf	-Inf	3	Horizontal	313	2.89	-
5240MHz	Pass	AV	5.4344G	48.73	54.00	-5.27	3	Horizontal	313	2.89	-
5240MHz	Pass	PK	5.1428G	63.42	74.00	-10.58	3	Horizontal	313	2.89	-
5240MHz	Pass	PK	5.2424G	122.37	Inf	-Inf	3	Horizontal	313	2.89	-
5240MHz	Pass	PK	5.5016G	58.47	68.20	-9.73	3	Horizontal	313	2.89	-
5240MHz	Pass	AV	15.71792G	48.89	54.00	-5.11	3	Vertical	345	1.45	-
5240MHz	Pass	PK	10.47596G	64.36	68.20	-3.84	3	Vertical	337	1.41	-
5240MHz	Pass	PK	15.71844G	61.31	74.00	-12.69	3	Vertical	345	1.45	-
5240MHz	Pass	AV	15.71808G	51.49	54.00	-2.51	3	Horizontal	326	1.60	-
5240MHz	Pass	PK	10.48208G	66.82	68.20	-1.38	3	Horizontal	63	1.75	-
5240MHz	Pass	PK	15.71904G	64.74	74.00	-9.26	3	Horizontal	326	1.60	-
5745MHz	Pass	AV	5.7426G	104.85	Inf	-Inf	3	Vertical	35	2.90	-
5745MHz	Pass	PK	5.6106G	59.60	68.20	-8.60	3	Vertical	35	2.90	-
5745MHz	Pass	PK	5.7426G	117.04	Inf	-Inf	3	Vertical	35	2.90	-
5745MHz	Pass	PK	6.039G	59.60	68.20	-8.60	3	Vertical	35	2.90	-
5745MHz	Pass	AV	5.7486G	110.52	Inf	-Inf	3	Horizontal	72	1.88	-
5745MHz	Pass	PK	5.643G	59.77	68.20	-8.43	3	Horizontal	72	1.88	-
5745MHz	Pass	PK	5.7486G	121.41	Inf	-Inf	3	Horizontal	72	1.88	-
5745MHz	Pass	PK	6.0078G	60.50	68.20	-7.70	3	Horizontal	72	1.88	-
5745MHz	Pass	AV	11.4898G	45.32	54.00	-8.68	3	Vertical	344	1.50	-
5745MHz	Pass	PK	11.49G	56.64	74.00	-17.36	3	Vertical	344	1.50	-
5745MHz	Pass	PK	17.23848G	62.35	68.20	-5.85	3	Vertical	350	1.49	-
5745MHz	Pass	AV	11.48996G	45.88	54.00	-8.12	3	Horizontal	58	2.92	-
5745MHz	Pass	PK	11.4896G	57.47	74.00	-16.53	3	Horizontal	58	2.92	-
5745MHz	Pass	PK	17.23552G	66.52	68.20	-1.68	3	Horizontal	27	1.86	-
5785MHz	Pass	AV	5.7874G	109.44	Inf	-Inf	3	Vertical	26	3.00	-
5785MHz	Pass	PK	5.5762G	58.75	68.20	-9.45	3	Vertical	26	3.00	-
5785MHz	Pass	PK	5.7874G	119.08	Inf	-Inf	3	Vertical	26	3.00	-
5785MHz	Pass	PK	6.0718G	60.33	68.20	-7.87	3	Vertical	26	3.00	-
5785MHz	Pass	AV	5.7874G	112.64	Inf	-Inf	3	Horizontal	302	2.20	-
5785MHz	Pass	PK	5.5942G	61.20	68.20	-7.00	3	Horizontal	302	2.20	-
5785MHz	Pass	PK	5.7874G	124.79	Inf	-Inf	3	Horizontal	302	2.20	-
5785MHz	Pass	PK	6.0598G	60.21	68.20	-7.99	3	Horizontal	302	2.20	-
5785MHz	Pass	AV	11.56728G	49.86	54.00	-4.14	3	Vertical	352	1.00	-
5785MHz	Pass	PK	11.56792G	61.69	74.00	-12.31	3	Vertical	352	1.00	-
5785MHz	Pass	PK	17.35648G	66.37	68.20	-1.83	3	Vertical	25	2.51	-
5785MHz	Pass	AV	11.56612G	48.29	54.00	-5.71	3	Horizontal	70	2.11	-
5785MHz	Pass	PK	11.56628G	60.81	74.00	-13.19	3	Horizontal	70	2.11	-
5785MHz	Pass	PK	17.35416G	67.14	68.20	-1.06	3	Horizontal	360	1.68	-
5825MHz	Pass	AV	5.8274G	109.89	Inf	-Inf	3	Vertical	26	2.96	-
5825MHz	Pass	PK	5.5838G	58.62	68.20	-9.58	3	Vertical	26	2.96	-
5825MHz	Pass	PK	5.8274G	120.99	Inf	-Inf	3	Vertical	26	2.96	-
5825MHz	Pass	PK	6.1058G	60.08	68.20	-8.12	3	Vertical	26	2.96	-
5825MHz	Pass	AV	5.8214G	112.02	Inf	-Inf	3	Horizontal	310	1.50	-



RSE TX above 1GHz_Non-Beamforming_Radio1_4T1S

Appendix E.2

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5825MHz	Pass	PK	5.6282G	59.29	68.20	-8.91	3	Horizontal	310	1.50	-
5825MHz	Pass	PK	5.8202G	123.62	Inf	-Inf	3	Horizontal	310	1.50	-
5825MHz	Pass	PK	5.9294G	60.72	68.20	-7.48	3	Horizontal	310	1.50	-
5825MHz	Pass	AV	11.6496G	48.59	54.00	-5.41	3	Vertical	12	1.50	-
5825MHz	Pass	PK	11.65048G	60.48	74.00	-13.52	3	Vertical	12	1.50	-
5825MHz	Pass	PK	17.4784G	66.45	68.20	-1.75	3	Vertical	12	2.11	-
5825MHz	Pass	AV	11.64592G	50.46	54.00	-3.54	3	Horizontal	70	2.10	-
5825MHz	Pass	PK	11.64664G	62.52	74.00	-11.48	3	Horizontal	70	2.10	-
5825MHz	Pass	PK	17.46524G	66.50	68.20	-1.70	3	Horizontal	25	1.91	-
802.11ax HEW40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	AV	5.1396G	49.21	54.00	-4.79	3	Vertical	12	2.93	-
5190MHz	Pass	AV	5.1792G	101.80	Inf	-Inf	3	Vertical	12	2.93	-
5190MHz	Pass	AV	5.4588G	46.12	54.00	-7.88	3	Vertical	12	2.93	-
5190MHz	Pass	PK	5.1384G	62.32	74.00	-11.68	3	Vertical	12	2.93	-
5190MHz	Pass	PK	5.178G	112.28	Inf	-Inf	3	Vertical	12	2.93	-
5190MHz	Pass	PK	5.46G	57.60	68.20	-10.60	3	Vertical	12	2.93	-
5190MHz	Pass	AV	5.15G	52.65	54.00	-1.35	3	Horizontal	309	1.86	-
5190MHz	Pass	AV	5.1984G	105.28	Inf	-Inf	3	Horizontal	309	1.86	-
5190MHz	Pass	AV	5.3904G	47.05	54.00	-6.95	3	Horizontal	309	1.86	-
5190MHz	Pass	PK	5.15G	65.61	74.00	-8.39	3	Horizontal	309	1.86	-
5190MHz	Pass	PK	5.178G	115.04	Inf	-Inf	3	Horizontal	309	1.86	-
5190MHz	Pass	PK	5.4888G	58.57	68.20	-9.63	3	Horizontal	309	1.86	-
5190MHz	Pass	AV	15.55504G	44.28	54.00	-9.72	3	Vertical	30	1.52	-
5190MHz	Pass	PK	10.38008G	57.02	68.20	-11.18	3	Vertical	31	2.70	-
5190MHz	Pass	PK	15.55768G	56.46	74.00	-17.54	3	Vertical	30	1.52	-
5190MHz	Pass	AV	15.56256G	44.35	54.00	-9.65	3	Horizontal	74	1.50	-
5190MHz	Pass	PK	10.36376G	54.81	68.20	-13.39	3	Horizontal	0	2.99	-
5190MHz	Pass	PK	15.582G	56.83	74.00	-17.17	3	Horizontal	74	1.50	-
5230MHz	Pass	AV	5.1496G	47.61	54.00	-6.39	3	Vertical	7	2.87	-
5230MHz	Pass	AV	5.2336G	104.74	Inf	-Inf	3	Vertical	7	2.87	-
5230MHz	Pass	AV	5.4256G	46.21	54.00	-7.79	3	Vertical	7	2.87	-
5230MHz	Pass	PK	5.0392G	58.35	74.00	-15.65	3	Vertical	7	2.87	-
5230MHz	Pass	PK	5.2336G	115.25	Inf	-Inf	3	Vertical	7	2.87	-
5230MHz	Pass	PK	5.4892G	58.35	68.20	-9.85	3	Vertical	7	2.87	-
5230MHz	Pass	AV	5.1484G	50.99	54.00	-3.01	3	Horizontal	301	2.83	-
5230MHz	Pass	AV	5.2288G	107.35	Inf	-Inf	3	Horizontal	301	2.83	-
5230MHz	Pass	AV	5.422G	47.45	54.00	-6.55	3	Horizontal	301	2.83	-
5230MHz	Pass	PK	5.1496G	62.57	74.00	-11.43	3	Horizontal	301	2.83	-
5230MHz	Pass	PK	5.2288G	118.09	Inf	-Inf	3	Horizontal	301	2.83	-
5230MHz	Pass	PK	5.5264G	58.75	68.20	-9.45	3	Horizontal	301	2.83	-
5230MHz	Pass	AV	15.6848G	44.36	54.00	-9.64	3	Vertical	4	1.27	-
5230MHz	Pass	PK	10.46024G	56.77	68.20	-11.43	3	Vertical	29	2.45	-
5230MHz	Pass	PK	15.6888G	57.28	74.00	-16.72	3	Vertical	4	1.27	-
5230MHz	Pass	AV	15.69264G	44.77	54.00	-9.23	3	Horizontal	327	1.50	-
5230MHz	Pass	PK	10.45728G	60.93	68.20	-7.27	3	Horizontal	70	1.74	-
5230MHz	Pass	PK	15.6936G	56.77	74.00	-17.23	3	Horizontal	327	1.50	-
5755MHz	Pass	AV	5.749G	104.12	Inf	-Inf	3	Vertical	33	2.92	-
5755MHz	Pass	PK	5.6494G	60.22	68.20	-7.98	3	Vertical	33	2.92	-
5755MHz	Pass	PK	5.7502G	114.92	Inf	-Inf	3	Vertical	33	2.92	-
5755MHz	Pass	PK	5.9998G	59.92	68.20	-8.28	3	Vertical	33	2.92	-
5755MHz	Pass	AV	5.749G	110.83	Inf	-Inf	3	Horizontal	66	2.29	-
5755MHz	Pass	PK	5.647G	65.10	68.20	-3.10	3	Horizontal	66	2.29	-
5755MHz	Pass	PK	5.749G	121.04	Inf	-Inf	3	Horizontal	66	2.29	-
5755MHz	Pass	PK	6.031G	59.98	68.20	-8.22	3	Horizontal	66	2.29	-
5755MHz	Pass	AV	11.50992G	44.79	54.00	-9.21	3	Vertical	311	1.42	-
5755MHz	Pass	PK	11.49096G	55.40	74.00	-18.60	3	Vertical	311	1.42	-
5755MHz	Pass	PK	17.27196G	63.72	68.20	-4.48	3	Vertical	339	1.88	-
5755MHz	Pass	AV	11.50984G	43.49	54.00	-10.51	3	Horizontal	331	1.39	-
5755MHz	Pass	PK	11.51208G	55.07	74.00	-18.93	3	Horizontal	331	1.39	-
5755MHz	Pass	PK	17.25972G	64.48	68.20	-3.72	3	Horizontal	338	2.51	-
5795MHz	Pass	AV	5.7902G	106.33	Inf	-Inf	3	Vertical	32	3.00	-
5795MHz	Pass	PK	5.6474G	61.99	68.20	-6.21	3	Vertical	32	3.00	-



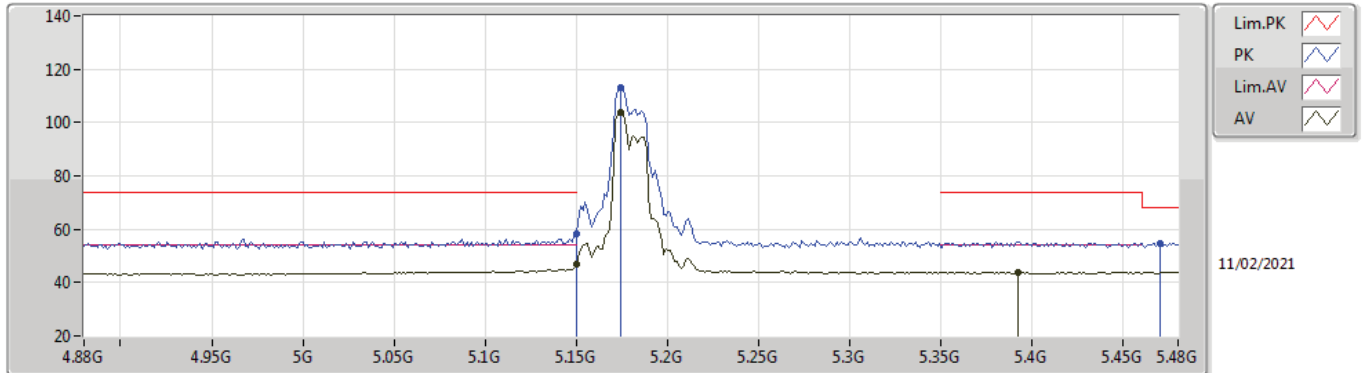
RSE TX above 1GHz Non-Beamforming Radio1 4T1S

Appendix E.2

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5795MHz	Pass	PK	5.789G	117.03	Inf	-Inf	3	Vertical	32	3.00	-
5795MHz	Pass	PK	6.0878G	59.68	68.20	-8.52	3	Vertical	32	3.00	-
5795MHz	Pass	AV	5.789G	111.89	Inf	-Inf	3	Horizontal	64	2.35	-
5795MHz	Pass	PK	5.6474G	66.28	68.20	-1.92	3	Horizontal	64	2.35	-
5795MHz	Pass	PK	5.7878G	122.20	Inf	-Inf	3	Horizontal	64	2.35	-
5795MHz	Pass	PK	6.0674G	59.32	68.20	-8.88	3	Horizontal	64	2.35	-
5795MHz	Pass	AV	11.58984G	44.51	54.00	-9.49	3	Vertical	312	1.37	-
5795MHz	Pass	PK	11.59776G	55.98	74.00	-18.02	3	Vertical	312	1.37	-
5795MHz	Pass	PK	17.3774G	64.82	68.20	-3.38	3	Vertical	31	1.00	-
5795MHz	Pass	AV	11.58984G	44.04	54.00	-9.96	3	Horizontal	23	1.50	-
5795MHz	Pass	PK	11.59944G	55.79	74.00	-18.21	3	Horizontal	23	1.50	-
5795MHz	Pass	PK	17.38452G	66.64	68.20	-1.56	3	Horizontal	55	1.98	-
802.11ax HEW80_Nss1(MCS0)_4TX											
5210MHz	Pass	AV	5.1332G	48.80	54.00	-5.20	3	Vertical	35	2.92	-
5210MHz	Pass	AV	5.2136G	96.96	Inf	-Inf	3	Vertical	35	2.92	-
5210MHz	Pass	AV	5.3552G	45.88	54.00	-8.12	3	Vertical	35	2.92	-
5210MHz	Pass	PK	5.132G	60.61	74.00	-13.39	3	Vertical	35	2.92	-
5210MHz	Pass	PK	5.1944G	107.45	Inf	-Inf	3	Vertical	35	2.92	-
5210MHz	Pass	PK	5.4836G	57.58	68.20	-10.62	3	Vertical	35	2.92	-
5210MHz	Pass	AV	5.1452G	52.73	54.00	-1.27	3	Horizontal	64	1.29	-
5210MHz	Pass	AV	5.2052G	100.61	Inf	-Inf	3	Horizontal	64	1.29	-
5210MHz	Pass	AV	5.366G	46.16	54.00	-7.84	3	Horizontal	64	1.29	-
5210MHz	Pass	PK	5.144G	66.64	74.00	-7.36	3	Horizontal	64	1.29	-
5210MHz	Pass	PK	5.2256G	112.45	Inf	-Inf	3	Horizontal	64	1.29	-
5210MHz	Pass	PK	5.4836G	58.24	68.20	-9.96	3	Horizontal	64	1.29	-
5210MHz	Pass	AV	15.63248G	44.06	54.00	-9.94	3	Vertical	3	1.50	-
5210MHz	Pass	PK	10.38352G	54.61	68.20	-13.59	3	Vertical	197	1.50	-
5210MHz	Pass	PK	15.63192G	56.68	74.00	-17.32	3	Vertical	3	1.50	-
5210MHz	Pass	AV	15.62404G	43.97	54.00	-10.03	3	Horizontal	281	1.50	-
5210MHz	Pass	PK	10.42004G	57.39	68.20	-10.81	3	Horizontal	19	2.02	-
5210MHz	Pass	PK	15.62096G	56.32	74.00	-17.68	3	Horizontal	281	1.50	-
5775MHz	Pass	AV	5.7774G	99.94	Inf	-Inf	3	Vertical	27	3.00	-
5775MHz	Pass	PK	5.6346G	62.58	68.20	-5.62	3	Vertical	27	3.00	-
5775MHz	Pass	PK	5.7786G	112.25	Inf	-Inf	3	Vertical	27	3.00	-
5775MHz	Pass	PK	6.003G	59.88	68.20	-8.32	3	Vertical	27	3.00	-
5775MHz	Pass	AV	5.7714G	102.48	Inf	-Inf	3	Horizontal	312	1.50	-
5775MHz	Pass	PK	5.6502G	66.83	68.35	-1.52	3	Horizontal	312	1.50	-
5775MHz	Pass	PK	5.7714G	114.64	Inf	-Inf	3	Horizontal	312	1.50	-
5775MHz	Pass	PK	6.003G	59.26	68.20	-8.94	3	Horizontal	312	1.50	-
5775MHz	Pass	AV	11.54984G	44.58	54.00	-9.42	3	Vertical	310	1.39	-
5775MHz	Pass	PK	11.54984G	55.71	74.00	-18.29	3	Vertical	310	1.39	-
5775MHz	Pass	PK	17.34272G	60.12	68.20	-8.08	3	Vertical	333	2.85	-
5775MHz	Pass	AV	11.55G	43.99	54.00	-10.01	3	Horizontal	332	1.50	-
5775MHz	Pass	PK	11.57144G	55.61	74.00	-18.39	3	Horizontal	332	1.50	-
5775MHz	Pass	PK	17.29764G	59.85	68.20	-8.35	3	Horizontal	27	1.50	-

802.11a_Nss1,(6Mbps)_4TX

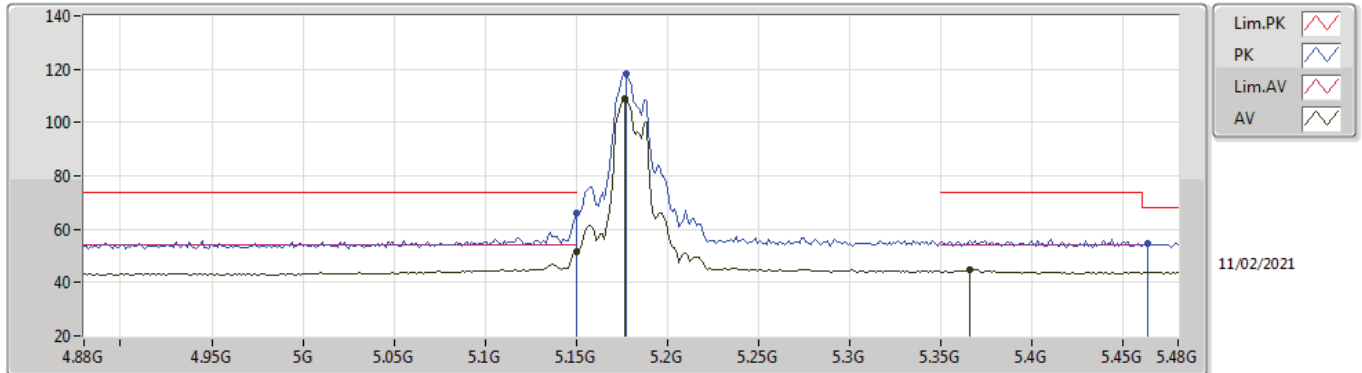
5180MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	5.15G	46.97	54.00	-7.03	5.99	3	Vertical	3	2.95	-	40.98	31.70	8.52	34.23
AV	5.174G	103.79	Inf	-Inf	5.92	3	Vertical	3	2.95	-	97.87	31.60	8.55	34.23
AV	5.3924G	43.83	54.00	-10.17	5.61	3	Vertical	3	2.95	-	38.22	31.25	8.61	34.25
PK	5.15G	58.40	74.00	-15.60	5.99	3	Vertical	3	2.95	-	52.41	31.70	8.52	34.23
PK	5.174G	113.28	Inf	-Inf	5.92	3	Vertical	3	2.95	-	107.36	31.60	8.55	34.23
PK	5.4704G	54.70	68.20	-13.50	6.09	3	Vertical	3	2.95	-	48.61	31.64	8.71	34.26

802.11a_Nss1,(6Mbps)_4TX

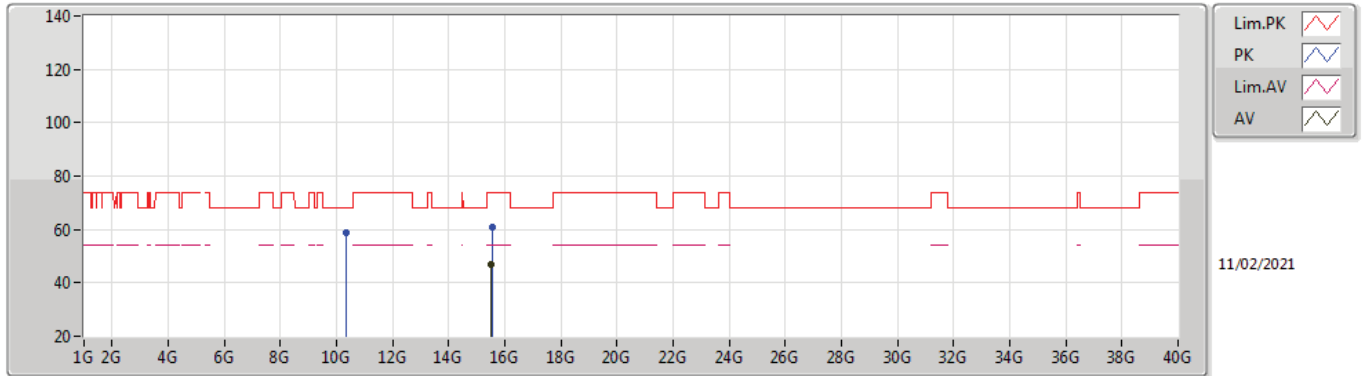
5180MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	5.15G	51.77	54.00	-2.23	5.99	3	Horizontal	66	1.91	-	45.78	31.70	8.52	34.23
AV	5.1764G	108.88	Inf	-Inf	5.91	3	Horizontal	66	1.91	-	102.97	31.59	8.55	34.23
AV	5.366G	44.87	54.00	-9.13	5.45	3	Horizontal	66	1.91	-	39.42	31.10	8.60	34.25
PK	5.15G	66.04	74.00	-7.96	5.99	3	Horizontal	66	1.91	-	60.05	31.70	8.52	34.23
PK	5.1776G	118.27	Inf	-Inf	5.91	3	Horizontal	66	1.91	-	112.36	31.59	8.55	34.23
PK	5.4632G	54.74	68.20	-13.46	6.07	3	Horizontal	66	1.91	-	48.67	31.63	8.70	34.26

802.11a_Nss1,(6Mbps)_4TX

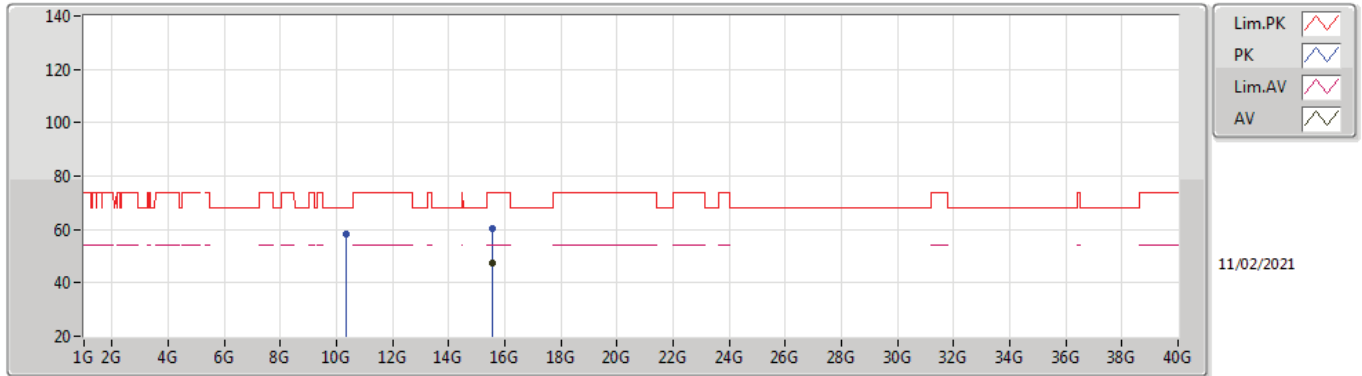
5180MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	15.53252G	47.04	54.00	-6.96	18.51	3	Vertical	3	1.43	-	28.53	38.27	14.61	34.37
PK	10.35988G	58.83	68.20	-9.37	16.88	3	Vertical	354	1.00	-	41.95	39.38	12.18	34.68
PK	15.54396G	60.88	74.00	-13.12	18.42	3	Vertical	3	1.43	-	42.46	38.19	14.61	34.38

802.11a_Nss1,(6Mbps)_4TX

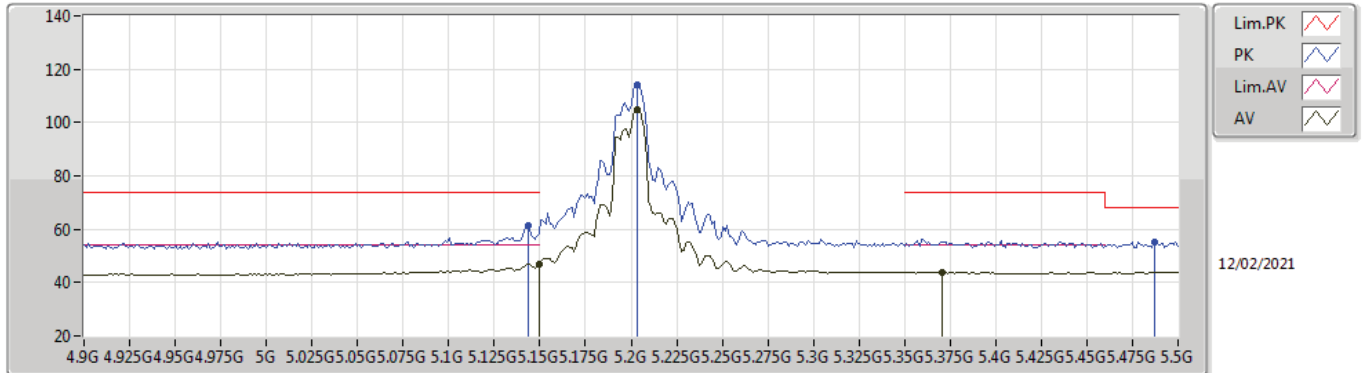
5180MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	15.53312G	47.16	54.00	-6.84	18.51	3	Horizontal	72	2.78	-	28.65	38.27	14.61	34.37
PK	10.36004G	58.26	68.20	-9.94	16.88	3	Horizontal	319	2.08	-	41.38	39.38	12.18	34.68
PK	15.54296G	60.42	74.00	-13.58	18.43	3	Horizontal	72	2.78	-	41.99	38.20	14.61	34.38

802.11a_Nss1,(6Mbps)_4TX

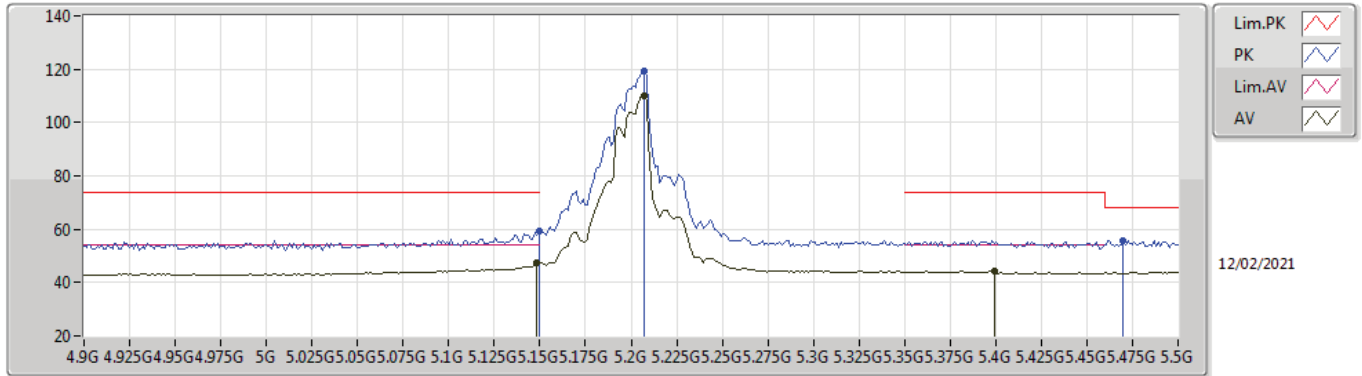
5200MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.1496G	46.89	54.00	-7.11	5.99	3	Vertical	6	2.94	-	40.90	31.70	8.52	34.23
AV	5.2036G	105.04	Inf	-Inf	5.81	3	Vertical	6	2.94	-	99.23	31.48	8.57	34.24
AV	5.3704G	43.99	54.00	-10.01	5.47	3	Vertical	6	2.94	-	38.52	31.12	8.60	34.25
PK	5.1436G	61.34	74.00	-12.66	5.99	3	Vertical	6	2.94	-	55.35	31.70	8.52	34.23
PK	5.2036G	114.32	Inf	-Inf	5.81	3	Vertical	6	2.94	-	108.51	31.48	8.57	34.24
PK	5.4868G	55.43	68.20	-12.77	6.15	3	Vertical	6	2.94	-	49.28	31.67	8.74	34.26

802.11a_Nss1,(6Mbps)_4TX

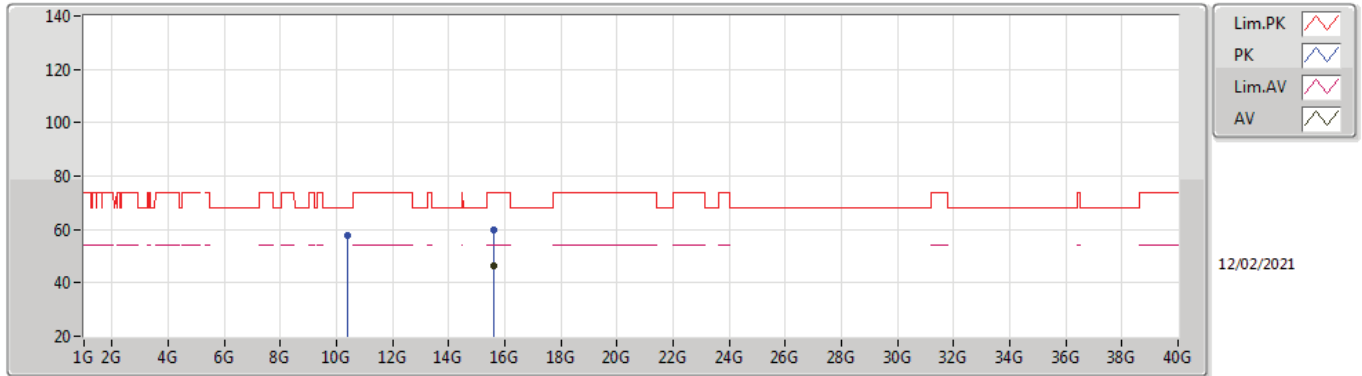
5200MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	5.1484G	47.45	54.00	-6.55	5.99	3	Horizontal	67	1.81	-	41.46	31.70	8.52	34.23
AV	5.2072G	110.12	Inf	-Inf	5.79	3	Horizontal	67	1.81	-	104.33	31.46	8.57	34.24
AV	5.3992G	44.30	54.00	-9.70	5.66	3	Horizontal	67	1.81	-	38.64	31.30	8.61	34.25
PK	5.1496G	59.39	74.00	-14.61	5.99	3	Horizontal	67	1.81	-	53.40	31.70	8.52	34.23
PK	5.2072G	119.36	Inf	-Inf	5.79	3	Horizontal	67	1.81	-	113.57	31.46	8.57	34.24
PK	5.47G	55.65	68.20	-12.55	6.09	3	Horizontal	67	1.81	-	49.56	31.64	8.71	34.26

802.11a_Nss1,(6Mbps)_4TX

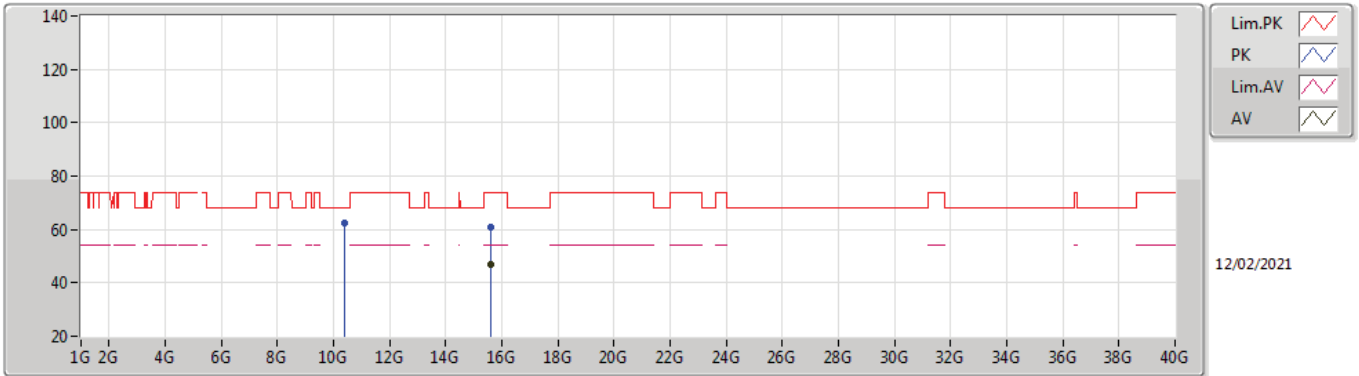
5200MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	15.59344G	46.53	54.00	-7.47	18.04	3	Vertical	10	1.01	-	28.49	37.85	14.62	34.43
PK	10.40008G	58.00	68.20	-10.20	17.05	3	Vertical	44	1.50	-	40.95	39.50	12.20	34.65
PK	15.59728G	59.97	74.00	-14.03	18.01	3	Vertical	10	1.01	-	41.96	37.82	14.62	34.43

802.11a_Nss1,(6Mbps)_4TX

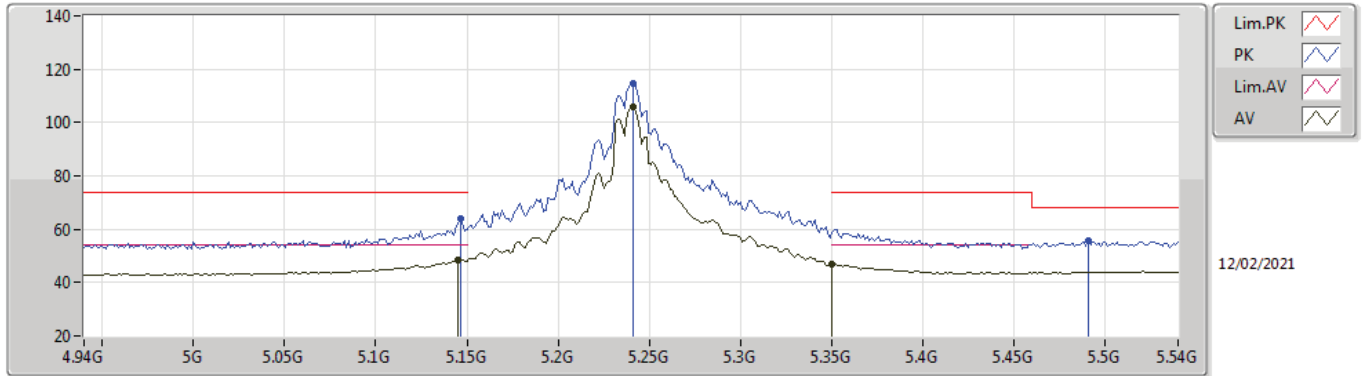
5200MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	15.60132G	46.74	54.00	-7.26	17.99	3	Horizontal	40	1.78	-	28.75	37.80	14.62	34.43
PK	10.39456G	62.65	68.20	-5.55	17.03	3	Horizontal	300	1.63	-	45.62	39.48	12.20	34.65
PK	15.60044G	60.73	74.00	-13.27	17.99	3	Horizontal	40	1.78	-	42.74	37.80	14.62	34.43

802.11a_Nss1,(6Mbps)_4TX

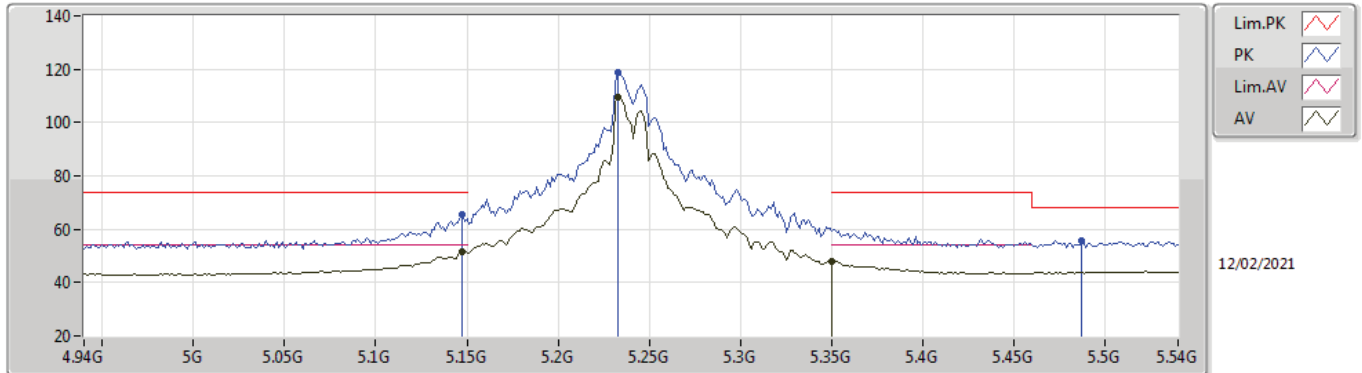
5240MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.1452G	48.60	54.00	-5.40	5.99	3	Vertical	16	2.70	-	42.61	31.70	8.52	34.23
AV	5.2412G	105.85	Inf	-Inf	5.59	3	Vertical	16	2.70	-	100.26	31.25	8.58	34.24
AV	5.35G	47.04	54.00	-6.96	5.35	3	Vertical	16	2.70	-	41.69	31.00	8.60	34.25
PK	5.1464G	63.90	74.00	-10.10	5.99	3	Vertical	16	2.70	-	57.91	31.70	8.52	34.23
PK	5.2412G	114.86	Inf	-Inf	5.59	3	Vertical	16	2.70	-	109.27	31.25	8.58	34.24
PK	5.4908G	55.47	68.20	-12.73	6.16	3	Vertical	16	2.70	-	49.31	31.68	8.74	34.26

802.11a_Nss1,(6Mbps)_4TX

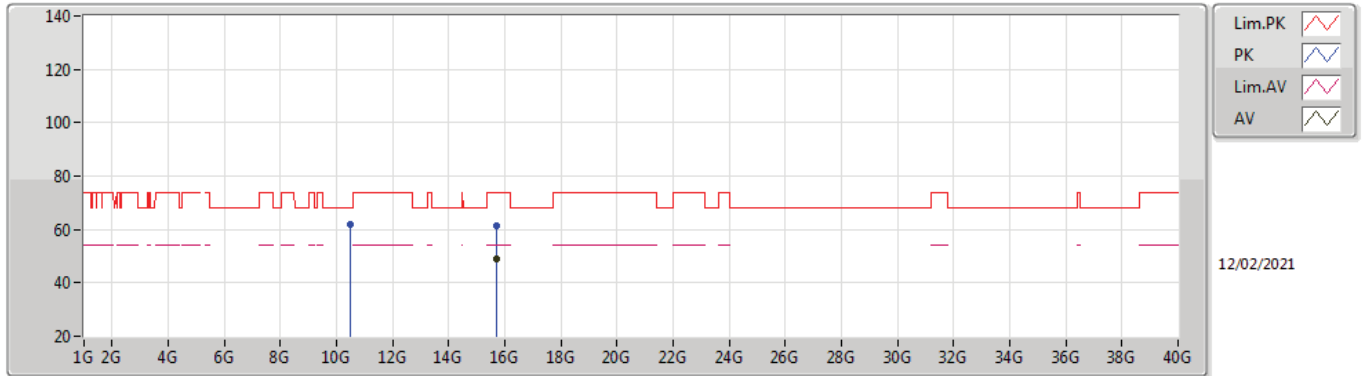
5240MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.1476G	51.35	54.00	-2.65	5.99	3	Horizontal	305	1.16	-	45.36	31.70	8.52	34.23
AV	5.2328G	109.38	Inf	-Inf	5.64	3	Horizontal	305	1.16	-	103.74	31.30	8.58	34.24
AV	5.35G	48.15	54.00	-5.85	5.35	3	Horizontal	305	1.16	-	42.80	31.00	8.60	34.25
PK	5.1476G	65.44	74.00	-8.56	5.99	3	Horizontal	305	1.16	-	59.45	31.70	8.52	34.23
PK	5.2328G	118.71	Inf	-Inf	5.64	3	Horizontal	305	1.16	-	113.07	31.30	8.58	34.24
PK	5.4872G	55.79	68.20	-12.41	6.15	3	Horizontal	305	1.16	-	49.64	31.67	8.74	34.26

802.11a_Nss1,(6Mbps)_4TX

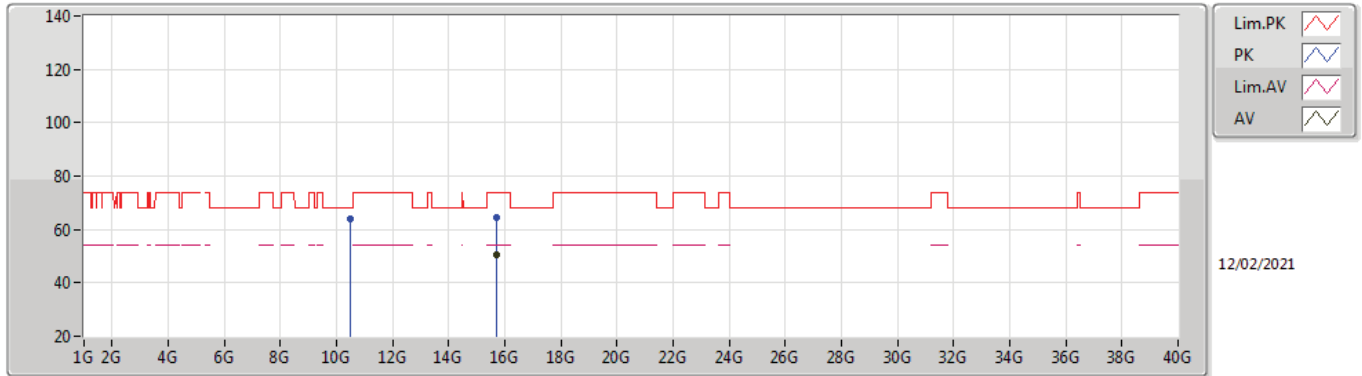
5240MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	15.71864G	48.78	54.00	-5.22	18.04	3	Vertical	360	2.80	-	30.74	37.93	14.65	34.54
PK	10.48048G	62.05	68.20	-6.15	17.32	3	Vertical	360	1.20	-	44.73	39.66	12.24	34.58
PK	15.71792G	61.50	74.00	-12.50	18.04	3	Vertical	360	2.80	-	43.46	37.93	14.65	34.54

802.11a_Nss1,(6Mbps)_4TX

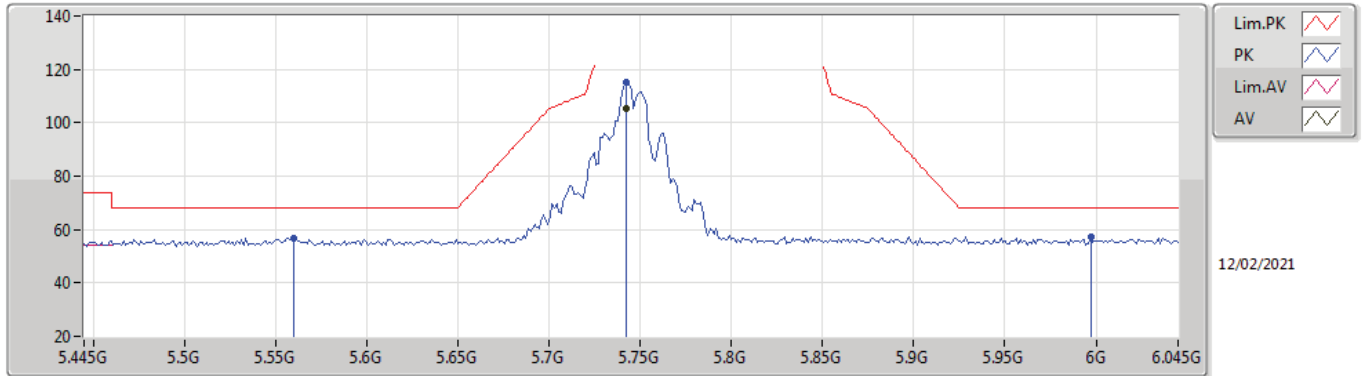
5240MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	15.71948G	50.48	54.00	-3.52	18.03	3	Horizontal	29	1.46	-	32.45	37.92	14.65	34.54
PK	10.47436G	64.11	68.20	-4.09	17.30	3	Horizontal	302	1.57	-	46.81	39.65	12.24	34.59
PK	15.71928G	64.61	74.00	-9.39	18.03	3	Horizontal	29	1.46	-	46.58	37.92	14.65	34.54

802.11a_Nss1,(6Mbps)_4TX

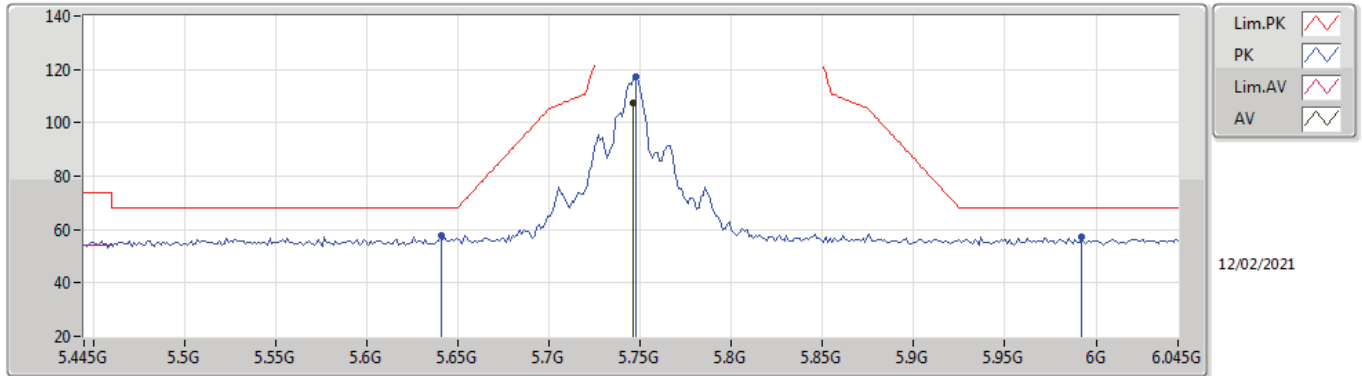
5745MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.7426G	105.51	Inf	-Inf	6.72	3	Vertical	360	2.98	-	98.79	31.97	9.03	34.28
PK	5.5602G	56.83	68.20	-11.37	6.17	3	Vertical	360	2.98	-	50.66	31.60	8.84	34.27
PK	5.7426G	114.96	Inf	-Inf	6.72	3	Vertical	360	2.98	-	108.24	31.97	9.03	34.28
PK	5.997G	57.27	68.20	-10.93	7.25	3	Vertical	360	2.98	-	50.02	32.39	9.17	34.31

802.11a_Nss1,(6Mbps)_4TX

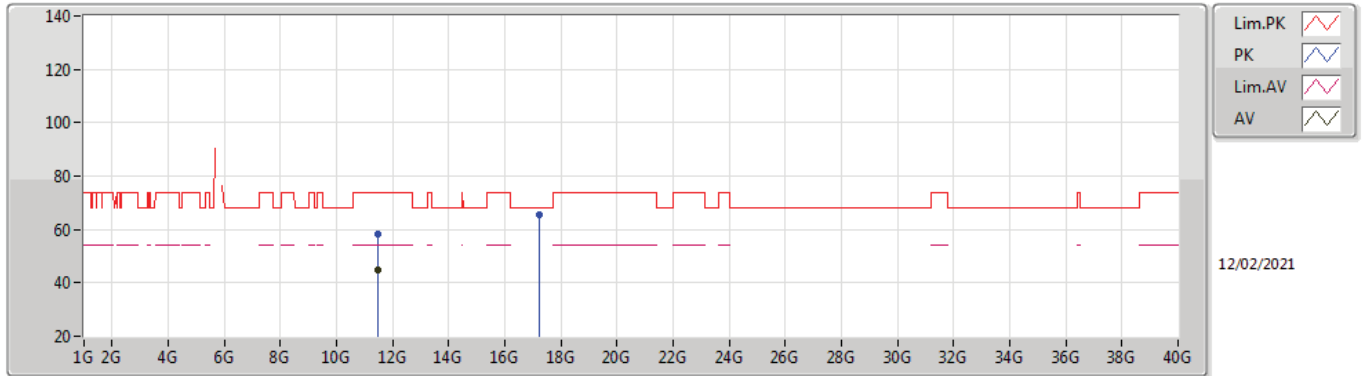
5745MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	5.7462G	107.53	Inf	-Inf	6.73	3	Horizontal	330	1.60	-	100.80	31.98	9.03	34.28
PK	5.6406G	57.85	68.20	-10.35	6.35	3	Horizontal	330	1.60	-	51.50	31.68	8.94	34.27
PK	5.7474G	117.03	Inf	-Inf	6.74	3	Horizontal	330	1.60	-	110.29	31.99	9.03	34.28
PK	5.9922G	57.29	68.20	-10.91	7.24	3	Horizontal	330	1.60	-	50.05	32.38	9.17	34.31

802.11a_Nss1,(6Mbps)_4TX

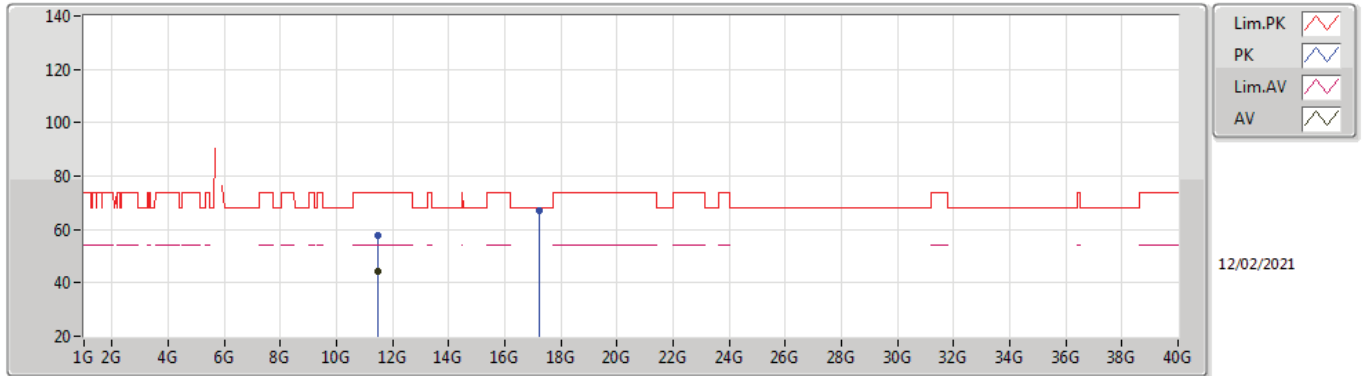
5745MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	11.49224G	44.91	54.00	-9.09	18.57	3	Vertical	307	1.14	-	26.34	39.98	12.75	34.16
PK	11.49112G	58.15	74.00	-15.85	18.57	3	Vertical	307	1.14	-	39.58	39.98	12.75	34.16
PK	17.2348G	65.64	68.20	-2.56	21.35	3	Vertical	352	2.19	-	44.29	39.60	15.03	33.28

802.11a_Nss1,(6Mbps)_4TX

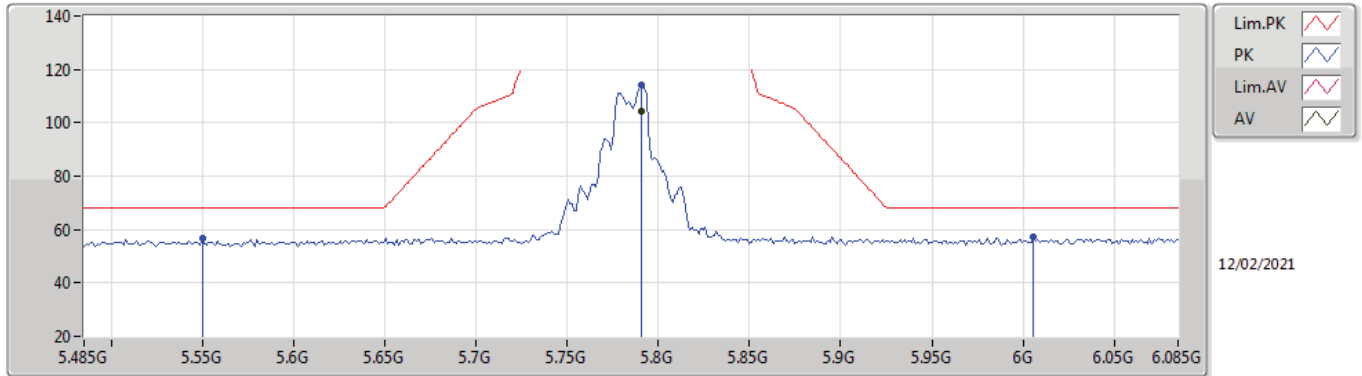
5745MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	11.49004G	44.11	54.00	-9.89	18.57	3	Horizontal	299	1.00	-	25.54	39.98	12.75	34.16
PK	11.4932G	57.55	74.00	-16.45	18.58	3	Horizontal	299	1.00	-	38.97	39.99	12.75	34.16
PK	17.23212G	66.88	68.20	-1.32	21.35	3	Horizontal	325	1.97	-	45.53	39.60	15.03	33.28

802.11a_Nss1,(6Mbps)_4TX

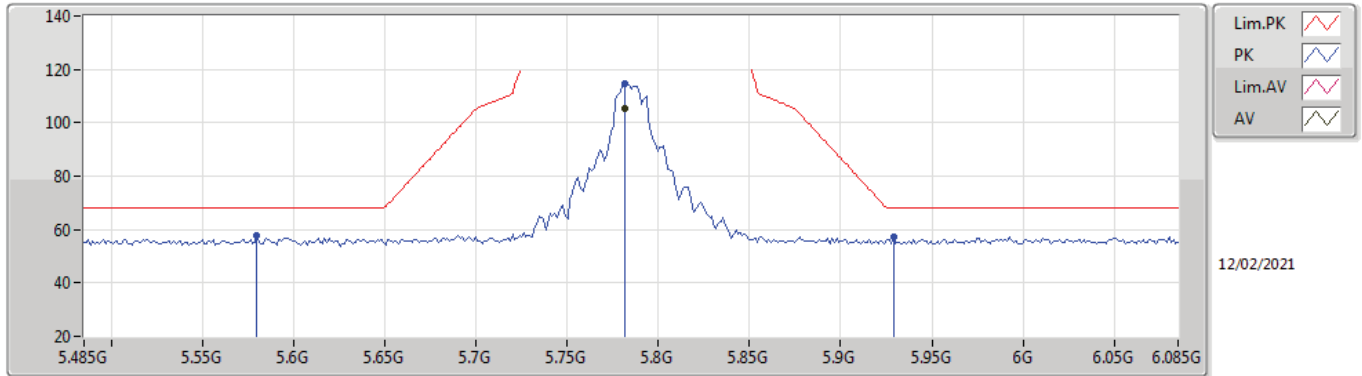
5785MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	5.791G	104.28	Inf	-Inf	6.78	3	Vertical	20	2.92	-	97.50	32.00	9.07	34.29
PK	5.5498G	56.53	68.20	-11.67	6.17	3	Vertical	20	2.92	-	50.36	31.60	8.83	34.26
PK	5.791G	114.28	Inf	-Inf	6.78	3	Vertical	20	2.92	-	107.50	32.00	9.07	34.29
PK	6.0058G	57.03	68.20	-11.17	7.25	3	Vertical	20	2.92	-	49.78	32.39	9.17	34.31

802.11a_Nss1,(6Mbps)_4TX

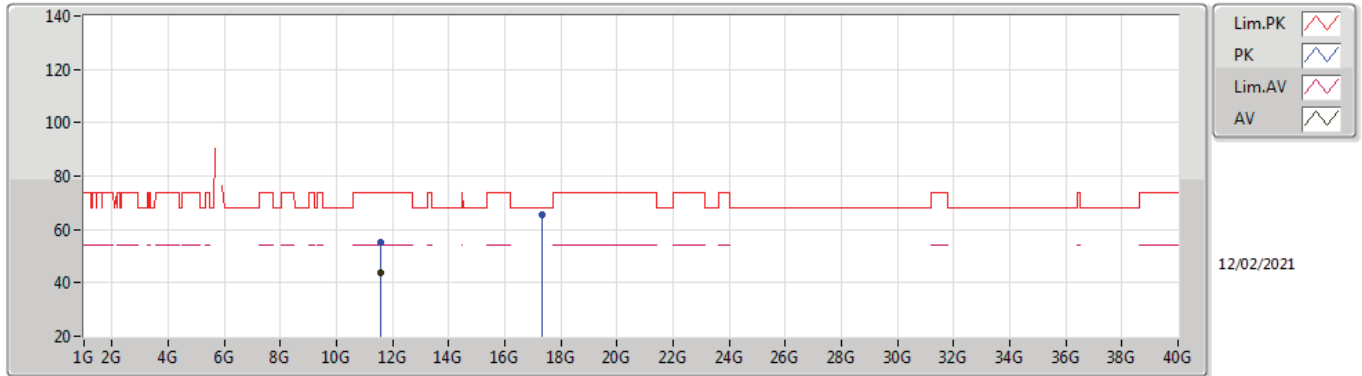
5785MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	5.7814G	105.59	Inf	-Inf	6.77	3	Horizontal	62	2.72	-	98.82	32.00	9.06	34.29
PK	5.798G	57.88	68.20	-10.32	6.20	3	Horizontal	62	2.72	-	51.68	31.60	8.87	34.27
PK	5.7814G	114.80	Inf	-Inf	6.77	3	Horizontal	62	2.72	-	108.03	32.00	9.06	34.29
PK	5.929G	57.33	68.20	-10.87	7.14	3	Horizontal	62	2.72	-	50.19	32.30	9.14	34.30

802.11a_Nss1,(6Mbps)_4TX

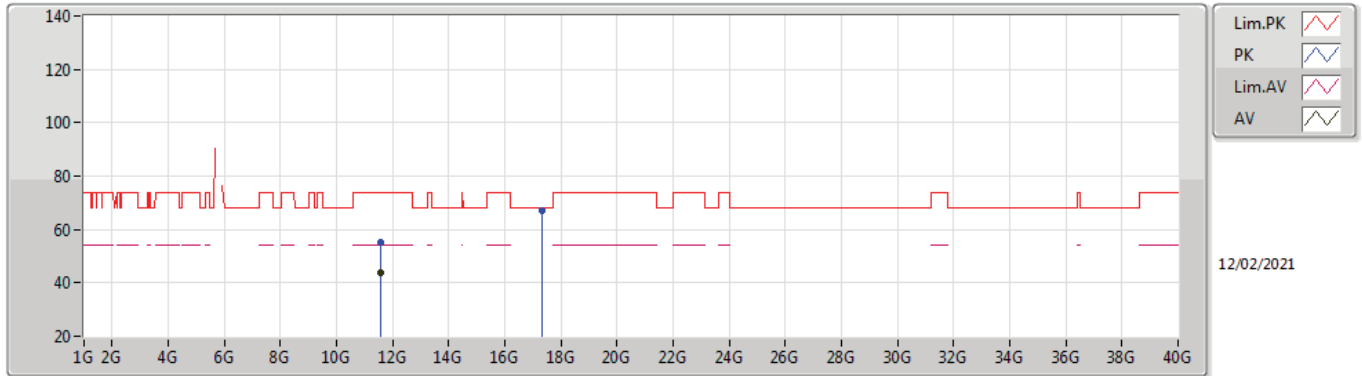
5785MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	11.56996G	43.94	54.00	-10.06	18.53	3	Vertical	311	1.41	-	25.41	39.93	12.79	34.19
PK	11.56084G	55.08	74.00	-18.92	18.54	3	Vertical	311	1.41	-	36.54	39.94	12.79	34.19
PK	17.35068G	65.29	68.20	-2.91	22.03	3	Vertical	15	1.85	-	43.26	40.21	15.06	33.24

802.11a_Nss1,(6Mbps)_4TX

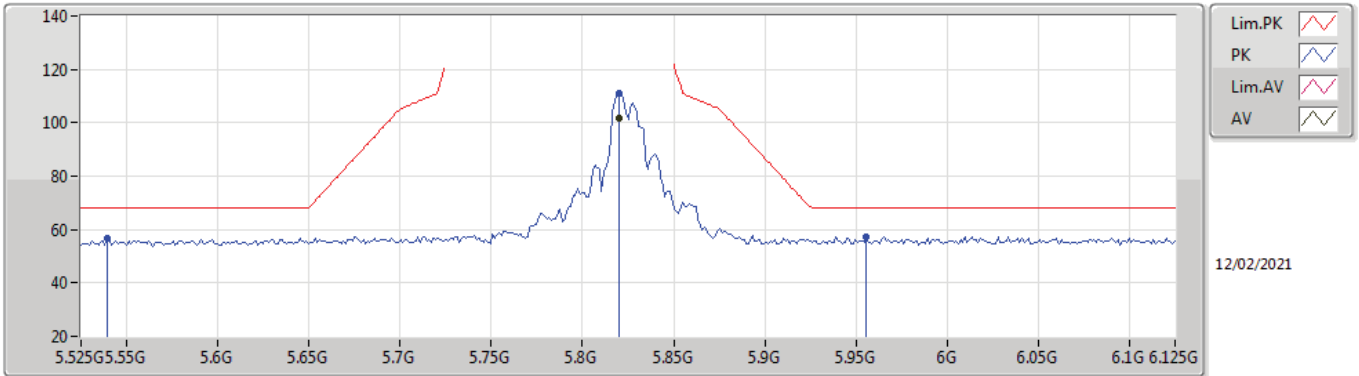
5785MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	11.56984G	43.59	54.00	-10.41	18.53	3	Horizontal	330	1.38	-	25.06	39.93	12.79	34.19
PK	11.57184G	55.40	74.00	-18.60	18.53	3	Horizontal	330	1.38	-	36.87	39.93	12.79	34.19
PK	17.3492G	66.91	68.20	-1.29	22.01	3	Horizontal	340	2.48	-	44.90	40.19	15.06	33.24

802.11a_Nss1,(6Mbps)_4TX

5825MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.8202G	101.62	Inf	-Inf	6.88	3	Vertical	346	2.22	-	94.74	32.08	9.09	34.29
PK	5.5394G	56.94	68.20	-11.26	6.17	3	Vertical	346	2.22	-	50.77	31.62	8.81	34.26
PK	5.8202G	111.04	Inf	-Inf	6.88	3	Vertical	346	2.22	-	104.16	32.08	9.09	34.29
PK	5.9558G	57.49	68.20	-10.71	7.15	3	Vertical	346	2.22	-	50.34	32.31	9.15	34.31