

# FCC Radio Test Report

**FCC ID** : TVE-3417T0966  
**Equipment** : Secured Wireless Access Point  
**Brand Name** : FORTINET  
**Model Name** : FortiAP 23JFxxxxxx, FAP-23JFxxxxxx,  
FORTIAP-23JFxxxxxx  
(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 Oct. 27, 2020, and testing was started from Nov. 03, 2020 and completed on Jan. 21, 2021. We, SPORTON INTERNATIONAL INC. Hsinhua Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown compliance with the applicable technical standards.

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



Approved by: Allen Lin

**SPORTON INTERNATIONAL INC. Hsinhua Laboratory**

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

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## History of this test report

[illegible]

## 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           | 15.407(a)        | Emission Bandwidth             | PASS               | -      |
| 3.2           | 15.407(a)        | Maximum Conducted Output Power | PASS               | -      |
| 3.3           | 15.407(a)        | Peak Power Spectral Density    | PASS               | -      |
| 3.4           | 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 evaluated the output power.

**Reviewed by: Sam Tsai**

**Report Producer: Debby Hung**

# 1 General Description

## 1.1 Information

| Radio | Function                  | Beamforming Mode |
|-------|---------------------------|------------------|
| 0     | 2.4G                      | Support          |
| 1     | 5G                        | Support          |
| 2     | 2.4G & 5G(Scanning Radio) | N/A              |
| 3     | Bluetooth & Zigbee        | N/A              |

### 1.1.1 RF General Information

| Frequency Range (MHz) | IEEE Std. 802.11                       | Ch. Frequency (MHz) | Channel Number |
|-----------------------|----------------------------------------|---------------------|----------------|
| 5250-5350             | a, n (HT20), ac (VHT20),<br>ax (HEW20) | 5260-5320           | 52-64 [4]      |
| 5470-5725             |                                        | 5500-5700           | 100-140 [11]   |
| Straddle 5720         |                                        | 5720                | 144 [1]        |
| 5250-5350             | n (HT40), ac (VHT40) ,<br>ax (HEW40)   | 5270-5310           | 54-62 [2]      |
| 5470-5725             |                                        | 5510-5670           | 102-134 [5]    |
| Straddle 5710         |                                        | 5710                | 142 [1]        |
| 5250-5350             | ac (VHT80),<br>ax (HEW80)              | 5290                | 58 [1]         |
| 5470-5725             |                                        | 5530-5610           | 106-122 [2]    |
| Straddle 5690         |                                        | 5690                | 138 [1]        |

**Non-Beamforming  
Radio 1**

| Band          | Mode           | BWch (MHz) | Nant |
|---------------|----------------|------------|------|
| 5.25-5.35GHz  | 802.11a        | 20         | 2TX  |
| 5.47-5.725GHz | 802.11a        | 20         | 2TX  |
| 5.725-5.85GHz | 802.11a        | 20         | 2TX  |
| 5.25-5.35GHz  | 802.11n HT20   | 20         | 2TX  |
| 5.47-5.725GHz | 802.11n HT20   | 20         | 2TX  |
| 5.725-5.85GHz | 802.11n HT20   | 20         | 2TX  |
| 5.25-5.35GHz  | 802.11n HT40   | 40         | 2TX  |
| 5.47-5.725GHz | 802.11n HT40   | 40         | 2TX  |
| 5.725-5.85GHz | 802.11n HT40   | 40         | 2TX  |
| 5.25-5.35GHz  | 802.11ac VHT20 | 20         | 2TX  |
| 5.47-5.725GHz | 802.11ac VHT20 | 20         | 2TX  |
| 5.725-5.85GHz | 802.11ac VHT20 | 20         | 2TX  |
| 5.25-5.35GHz  | 802.11ac VHT40 | 40         | 2TX  |
| 5.47-5.725GHz | 802.11ac VHT40 | 40         | 2TX  |
| 5.725-5.85GHz | 802.11ac VHT40 | 40         | 2TX  |
| 5.25-5.35GHz  | 802.11ac VHT80 | 80         | 2TX  |
| 5.47-5.725GHz | 802.11ac VHT80 | 80         | 2TX  |
| 5.725-5.85GHz | 802.11ac VHT80 | 80         | 2TX  |
| 5.25-5.35GHz  | 802.11ax HEW20 | 20         | 2TX  |
| 5.47-5.725GHz | 802.11ax HEW20 | 20         | 2TX  |
| 5.725-5.85GHz | 802.11ax HEW20 | 20         | 2TX  |
| 5.25-5.35GHz  | 802.11ax HEW40 | 40         | 2TX  |
| 5.47-5.725GHz | 802.11ax HEW40 | 40         | 2TX  |
| 5.725-5.85GHz | 802.11ax HEW40 | 40         | 2TX  |
| 5.25-5.35GHz  | 802.11ax HEW80 | 80         | 2TX  |
| 5.47-5.725GHz | 802.11ax HEW80 | 80         | 2TX  |
| 5.725-5.85GHz | 802.11ax HEW80 | 80         | 2TX  |

**Non-Beamforming  
Radio 2**

| Band          | Mode           | BWch (MHz) | Nant |
|---------------|----------------|------------|------|
| 5.25-5.35GHz  | 802.11a        | 20         | 1TX  |
| 5.47-5.725GHz | 802.11a        | 20         | 1TX  |
| 5.725-5.85GHz | 802.11a        | 20         | 1TX  |
| 5.25-5.35GHz  | 802.11n HT20   | 20         | 1TX  |
| 5.47-5.725GHz | 802.11n HT20   | 20         | 1TX  |
| 5.725-5.85GHz | 802.11n HT20   | 20         | 1TX  |
| 5.25-5.35GHz  | 802.11n HT40   | 40         | 1TX  |
| 5.47-5.725GHz | 802.11n HT40   | 40         | 1TX  |
| 5.725-5.85GHz | 802.11n HT40   | 40         | 1TX  |
| 5.25-5.35GHz  | 802.11ac VHT20 | 20         | 1TX  |
| 5.47-5.725GHz | 802.11ac VHT20 | 20         | 1TX  |
| 5.725-5.85GHz | 802.11ac VHT20 | 20         | 1TX  |
| 5.25-5.35GHz  | 802.11ac VHT40 | 40         | 1TX  |
| 5.47-5.725GHz | 802.11ac VHT40 | 40         | 1TX  |
| 5.725-5.85GHz | 802.11ac VHT40 | 40         | 1TX  |
| 5.25-5.35GHz  | 802.11ac VHT80 | 80         | 1TX  |
| 5.47-5.725GHz | 802.11ac VHT80 | 80         | 1TX  |
| 5.725-5.85GHz | 802.11ac VHT80 | 80         | 1TX  |

**Beamforming  
Radio 1**

| Band          | Mode              | BWch (MHz) | Nant |
|---------------|-------------------|------------|------|
| 5.25-5.35GHz  | 802.11ax HEW20-BF | 20         | 2TX  |
| 5.47-5.725GHz | 802.11ax HEW20-BF | 20         | 2TX  |
| 5.725-5.85GHz | 802.11ax HEW20-BF | 20         | 2TX  |
| 5.25-5.35GHz  | 802.11ax HEW40-BF | 40         | 2TX  |
| 5.47-5.725GHz | 802.11ax HEW40-BF | 40         | 2TX  |
| 5.725-5.85GHz | 802.11ax HEW40-BF | 40         | 2TX  |
| 5.25-5.35GHz  | 802.11ax HEW80-BF | 80         | 2TX  |
| 5.47-5.725GHz | 802.11ax HEW80-BF | 80         | 2TX  |
| 5.725-5.85GHz | 802.11ax HEW80-BF | 80         | 2TX  |

**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 | 5718A0566300 | Dipole       | I-PEX     |
| 2    | Senao | 5718A0567300 | Dipole       | I-PEX     |
| 3    | Senao | 5718A0568300 | Dipole       | I-PEX     |
| 4    | Senao | 5718A0569300 | Dipole       | I-PEX     |

| Ant. | 2.4GHz            |                       | 5GHz              |                       | BTLE/Zigbee       | Remark    |
|------|-------------------|-----------------------|-------------------|-----------------------|-------------------|-----------|
|      | Antenna Gain(dBi) | Beamforming Gain(dBi) | Antenna Gain(dBi) | Beamforming Gain(dBi) | Antenna Gain(dBi) |           |
| 1    | 4.17              | 3.01                  | 4.35              | 3.01                  | -                 | Radio 0,1 |
| 2    | 3.74              |                       | 3.84              |                       | -                 | Radio 0,1 |
| 3    | 3.99              | -                     | 4.16              | -                     | -                 | Radio 2   |
| 4    | -                 |                       | -                 |                       | 3.63              | Radio 3   |

**For 2.4 GHz function:**

Radio 0

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

Ant. 1 and Ant. 2 could transmit/receive simultaneously.

Radio 2

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

Ant. 3 could transmit/receive.

**For 5 GHz function:**

Radio 1

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

Ant. 1 and Ant. 2 could transmit/receive simultaneously.

Radio 2

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

Ant. 3 could transmit/receive.

**For Bluetooth/Zigbee function:**

Radio 3

For Bluetooth/Zigbee mode (1TX/1RX)

Only Ant. 4 can be used as transmitting/receiving.

### 1.1.3 EUT Information

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

### 1.1.4 Mode Test Duty Cycle

#### Non-Beamforming Radio 1

| Mode                           | DC    | DCF(dB) | T(s)   | VBW(Hz) $\geq 1/T$ |
|--------------------------------|-------|---------|--------|--------------------|
| 802.11a_Nss1,(6Mbps)_2TX       | 0.939 | 0.27    | 1.977m | 1k                 |
| 802.11n HT20_Nss1,(MCS0)_2TX   | 0.95  | 0.22    | 5.43m  | 300                |
| 802.11n HT40_Nss1,(MCS0)_2TX   | 0.946 | 0.24    | 5.429m | 300                |
| 802.11ac VHT20_Nss1,(MCS0)_2TX | 0.964 | 0.16    | 5.429m | 300                |
| 802.11ac VHT40_Nss1,(MCS0)_2TX | 0.957 | 0.19    | 5.429m | 300                |
| 802.11ac VHT80_Nss1,(MCS0)_2TX | 0.861 | 0.65    | 5.429m | 300                |
| 802.11ax HEW20_Nss1,(MCS0)_2TX | 0.95  | 0.22    | 5.452m | 300                |
| 802.11ax HEW40_Nss1,(MCS0)_2TX | 0.934 | 0.3     | 5.452m | 300                |
| 802.11ax HEW80_Nss1,(MCS0)_2TX | 0.918 | 0.37    | 5.012m | 300                |

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

**Non-Beamforming  
Radio 2**

| Mode                           | DC    | DCF(dB) | T(s)     | VBW(Hz) $\geq 1/T$ |
|--------------------------------|-------|---------|----------|--------------------|
| 802.11a_Nss1,(6Mbps)_1TX       | 0.966 | 0.15    | 2.03m    | 1k                 |
| 802.11n HT20_Nss1,(MCS0)_1TX   | 0.966 | 0.15    | 1.889m   | 1k                 |
| 802.11n HT40_Nss1,(MCS0)_1TX   | 0.928 | 0.32    | 929.062u | 3k                 |
| 802.11ac VHT20_Nss1,(MCS0)_1TX | 0.962 | 0.17    | 1.897m   | 1k                 |
| 802.11ac VHT40_Nss1,(MCS0)_1TX | 0.925 | 0.34    | 937.5u   | 3k                 |
| 802.11ac VHT80_Nss1,(MCS0)_1TX | 0.857 | 0.67    | 457.5u   | 3k                 |

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

**Beamforming  
Radio 1**

| Mode                              | DC    | DCF(dB) | T(s)   | VBW(Hz) $\geq 1/T$ |
|-----------------------------------|-------|---------|--------|--------------------|
| 802.11ax HEW20-BF_Nss1,(MCS0)_2TX | 0.95  | 0.22    | 5.452m | 300                |
| 802.11ax HEW40-BF_Nss1,(MCS0)_2TX | 0.934 | 0.3     | 5.452m | 300                |
| 802.11ax HEW80-BF_Nss1,(MCS0)_2TX | 0.918 | 0.37    | 5.012m | 300                |

**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 23JFxxxxxx | All the models are identical, the difference model for difference brand served as marketing strategy. |
|            | FAP-23JFxxxxxx     |                                                                                                       |
|            | FORTIAP-23JFxxxxxx |                                                                                                       |

**1.1.6 Table for Permissive Change**

This product is an extension of original one reported under Sporton project number: FR002618AN

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

| Modifications                                     | Performance Checking                                                                                                                    |
|---------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| Frequency bands U-NII-2A and U-NII-2C were added. | Emission Bandwidth, Maximum Conducted Output Power, Peak Power Spectral Density, Frequency Stability, Radiated Emissions was evaluated. |

## 1.2 Testing Applied Standards

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

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

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

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

## 1.3 Testing Location Information

| Test Lab. : Sporton International Inc. Hsinhua Laboratory  |                                                                                         |               |                      |                         |
|------------------------------------------------------------|-----------------------------------------------------------------------------------------|---------------|----------------------|-------------------------|
| <input checked="" type="checkbox"/> Hsinhua<br>(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. TW1190 with FCC.                 |                                                                                         |               |                      |                         |
| Test Condition                                             | Test Site No.                                                                           | Test Engineer | Test Environment     | Test Date               |
| RF Conducted                                               | TH06-HY                                                                                 | Alan          | 20.1~26.9°C / 50~60% | 05/Nov/2020~21/Jan/2021 |
| Radiated                                                   | 03CH02-HY                                                                               | Daniel        | 20.7~26.1°C / 51~66% | 03/Nov/2020~13/Jan/2021 |
| <input type="checkbox"/> Wen 33rd.St.<br>(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 | QSPR V5.0-00188 |
|-----------------------|-----------------|

#### Non-Beamforming Radio 1

| Mode                           | Power Setting |
|--------------------------------|---------------|
| 802.11a_Nss1,(6Mbps)_2TX       | -             |
| 5260MHz                        | 18            |
| 5300MHz                        | 18.5          |
| 5320MHz                        | 18.5          |
| 5500MHz                        | 18.5          |
| 5580MHz                        | 17.5          |
| 5700MHz                        | 18            |
| 5720MHz Straddle 5.47-5.725GHz | 18.5          |
| 5720MHz Straddle 5.725-5.85GHz | 18.5          |
| 802.11n HT20_Nss1,(MCS0)_2TX   | -             |
| 5260MHz                        | 20.5          |
| 5300MHz                        | 20.5          |
| 5320MHz                        | 20.5          |
| 5500MHz                        | 19.5          |
| 5580MHz                        | 19            |
| 5700MHz                        | 19            |
| 5720MHz Straddle 5.47-5.725GHz | 19.5          |
| 5720MHz Straddle 5.725-5.85GHz | 19.5          |
| 802.11n HT40_Nss1,(MCS0)_2TX   | -             |
| 5270MHz                        | 21            |
| 5310MHz                        | 21            |
| 5510MHz                        | 20.5          |
| 5550MHz                        | 20.5          |



| Mode                           | Power Setting |
|--------------------------------|---------------|
| 5670MHz                        | 19.5          |
| 5710MHz Straddle 5.47-5.725GHz | 20.5          |
| 5710MHz Straddle 5.725-5.85GHz | 20.5          |
| 802.11ac VHT20_Nss1,(MCS0)_2TX | -             |
| 5260MHz                        | 20.5          |
| 5300MHz                        | 20.5          |
| 5320MHz                        | 20.5          |
| 5500MHz                        | 19.5          |
| 5580MHz                        | 19            |
| 5700MHz                        | 19            |
| 5720MHz Straddle 5.47-5.725GHz | 19.5          |
| 5720MHz Straddle 5.725-5.85GHz | 19.5          |
| 802.11ac VHT40_Nss1,(MCS0)_2TX | -             |
| 5270MHz                        | 21            |
| 5310MHz                        | 21            |
| 5510MHz                        | 20.5          |
| 5550MHz                        | 20.5          |
| 5670MHz                        | 19.5          |
| 5710MHz Straddle 5.47-5.725GHz | 20.5          |
| 5710MHz Straddle 5.725-5.85GHz | 20.5          |
| 802.11ac VHT80_Nss1,(MCS0)_2TX | -             |
| 5290MHz                        | 20            |
| 5530MHz                        | 20            |
| 5610MHz                        | 21            |
| 5690MHz Straddle 5.47-5.725GHz | 20.5          |
| 5690MHz Straddle 5.725-5.85GHz | 20.5          |
| 802.11ax HEW20_Nss1,(MCS0)_2TX | -             |
| 5260MHz                        | 20.5          |
| 5300MHz                        | 20.5          |
| 5320MHz                        | 20.5          |
| 5500MHz                        | 19.5          |
| 5580MHz                        | 19            |
| 5700MHz                        | 19            |
| 5720MHz Straddle 5.47-5.725GHz | 19.5          |
| 5720MHz Straddle 5.725-5.85GHz | 19.5          |



| Mode                           | Power Setting |
|--------------------------------|---------------|
| 802.11ax HEW40_Nss1,(MCS0)_2TX | -             |
| 5270MHz                        | 21            |
| 5310MHz                        | 21            |
| 5510MHz                        | 20.5          |
| 5550MHz                        | 20.5          |
| 5670MHz                        | 19.5          |
| 5710MHz Straddle 5.47-5.725GHz | 20.5          |
| 5710MHz Straddle 5.725-5.85GHz | 20.5          |
| 802.11ax HEW80_Nss1,(MCS0)_2TX | -             |
| 5290MHz                        | 20            |
| 5530MHz                        | 20            |
| 5610MHz                        | 21            |
| 5690MHz Straddle 5.47-5.725GHz | 20.5          |
| 5690MHz Straddle 5.725-5.85GHz | 20.5          |

**Non-Beamforming  
Radio 2**

| Mode                           | Power Setting |
|--------------------------------|---------------|
| 802.11a_Nss1,(6Mbps)_1TX       | -             |
| 5260MHz                        | 21            |
| 5300MHz                        | 22            |
| 5320MHz                        | 19.5          |
| 5500MHz                        | 18.5          |
| 5580MHz                        | 22            |
| 5700MHz                        | 18.5          |
| 5720MHz Straddle 5.47-5.725GHz | 19.5          |
| 5720MHz Straddle 5.725-5.85GHz | 19.5          |
| 802.11n HT20_Nss1,(MCS0)_1TX   | -             |
| 5260MHz                        | 21            |
| 5300MHz                        | 22            |
| 5320MHz                        | 19            |
| 5500MHz                        | 18.5          |
| 5580MHz                        | 22            |
| 5700MHz                        | 18.5          |
| 5720MHz Straddle 5.47-5.725GHz | 19            |
| 5720MHz Straddle 5.725-5.85GHz | 19            |
| 802.11n HT40_Nss1,(MCS0)_1TX   | -             |
| 5270MHz                        | 21.5          |
| 5310MHz                        | 18.5          |
| 5510MHz                        | 17.5          |
| 5550MHz                        | 22            |
| 5670MHz                        | 19            |
| 5710MHz Straddle 5.47-5.725GHz | 19            |
| 5710MHz Straddle 5.725-5.85GHz | 19            |
| 802.11ac VHT20_Nss1,(MCS0)_1TX | -             |
| 5260MHz                        | 21            |
| 5300MHz                        | 22            |
| 5320MHz                        | 19            |
| 5500MHz                        | 18.5          |
| 5580MHz                        | 22            |
| 5700MHz                        | 18.5          |





| Mode                           | Power Setting |
|--------------------------------|---------------|
| 5720MHz Straddle 5.47-5.725GHz | 19            |
| 5720MHz Straddle 5.725-5.85GHz | 19            |
| 802.11ac VHT40_Nss1,(MCS0)_1TX | -             |
| 5270MHz                        | 21.5          |
| 5310MHz                        | 18.5          |
| 5510MHz                        | 17.5          |
| 5550MHz                        | 22            |
| 5670MHz                        | 19            |
| 5710MHz Straddle 5.47-5.725GHz | 19            |
| 5710MHz Straddle 5.725-5.85GHz | 19            |
| 802.11ac VHT80_Nss1,(MCS0)_1TX | -             |
| 5290MHz                        | 11            |
| 5530MHz                        | 12            |
| 5610MHz                        | 19            |
| 5690MHz Straddle 5.47-5.725GHz | 19.5          |
| 5690MHz Straddle 5.725-5.85GHz | 19.5          |

**Beamforming  
Radio 1**

| Mode                              | Power Setting |
|-----------------------------------|---------------|
| 802.11ax HEW20-BF_Nss1,(MCS0)_2TX | -             |
| 5260MHz                           | 20            |
| 5300MHz                           | 20.5          |
| 5320MHz                           | 20.5          |
| 5500MHz                           | 19.5          |
| 5580MHz                           | 19.5          |
| 5700MHz                           | 19.5          |
| 5720MHz Straddle 5.47-5.725GHz    | 19.5          |
| 5720MHz Straddle 5.725-5.85GHz    | 19.5          |
| 802.11ax HEW40-BF_Nss1,(MCS0)_2TX | -             |
| 5270MHz                           | 21            |
| 5310MHz                           | 21            |
| 5510MHz                           | 20            |
| 5550MHz                           | 20            |
| 5670MHz                           | 19.5          |
| 5710MHz Straddle 5.47-5.725GHz    | 20            |
| 5710MHz Straddle 5.725-5.85GHz    | 20            |
| 802.11ax HEW80-BF_Nss1,(MCS0)_2TX | -             |
| 5290MHz                           | 20            |
| 5530MHz                           | 20            |
| 5610MHz                           | 21            |
| 5690MHz Straddle 5.47-5.725GHz    | 20            |
| 5690MHz Straddle 5.725-5.85GHz    | 20            |

## 2.3 The Worst Case Measurement Configuration

| The Worst Case Mode for Following Conformance Tests |                                                                                     |
|-----------------------------------------------------|-------------------------------------------------------------------------------------|
| <b>Tests Item</b>                                   | Emission Bandwidth<br>Maximum Conducted Output Power<br>Peak Power Spectral Density |
| <b>Test Condition</b>                               | Conducted measurement at transmit chains                                            |

| The Worst Case Mode for Following Conformance Tests |                                                                                                                                                                                                                                                     |                                                                                      |                                                                                       |
|-----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <b>Tests Item</b>                                   | Unwanted Emissions                                                                                                                                                                                                                                  |                                                                                      |                                                                                       |
| <b>Test Condition</b>                               | Radiated measurement<br>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. |                                                                                      |                                                                                       |
| <b>Operating Mode</b>                               | CTX                                                                                                                                                                                                                                                 |                                                                                      |                                                                                       |
| 1                                                   | PoE mode                                                                                                                                                                                                                                            |                                                                                      |                                                                                       |
| <b>Orthogonal Planes of EUT</b>                     | <b>X Plane</b>                                                                                                                                                                                                                                      | <b>Y Plane</b>                                                                       | <b>Z Plane</b>                                                                        |
|                                                     |                                                                                                                                                                  |  |  |
| <b>Worst Planes of EUT</b>                          |                                                                                                                                                                                                                                                     | V                                                                                    |                                                                                       |

## 2.4 Accessories

| Accessories       |            |        |            |              |
|-------------------|------------|--------|------------|--------------|
| BRACKET WALL JACK | Brand Name | Enrack | Model Name | 6002Ad953000 |

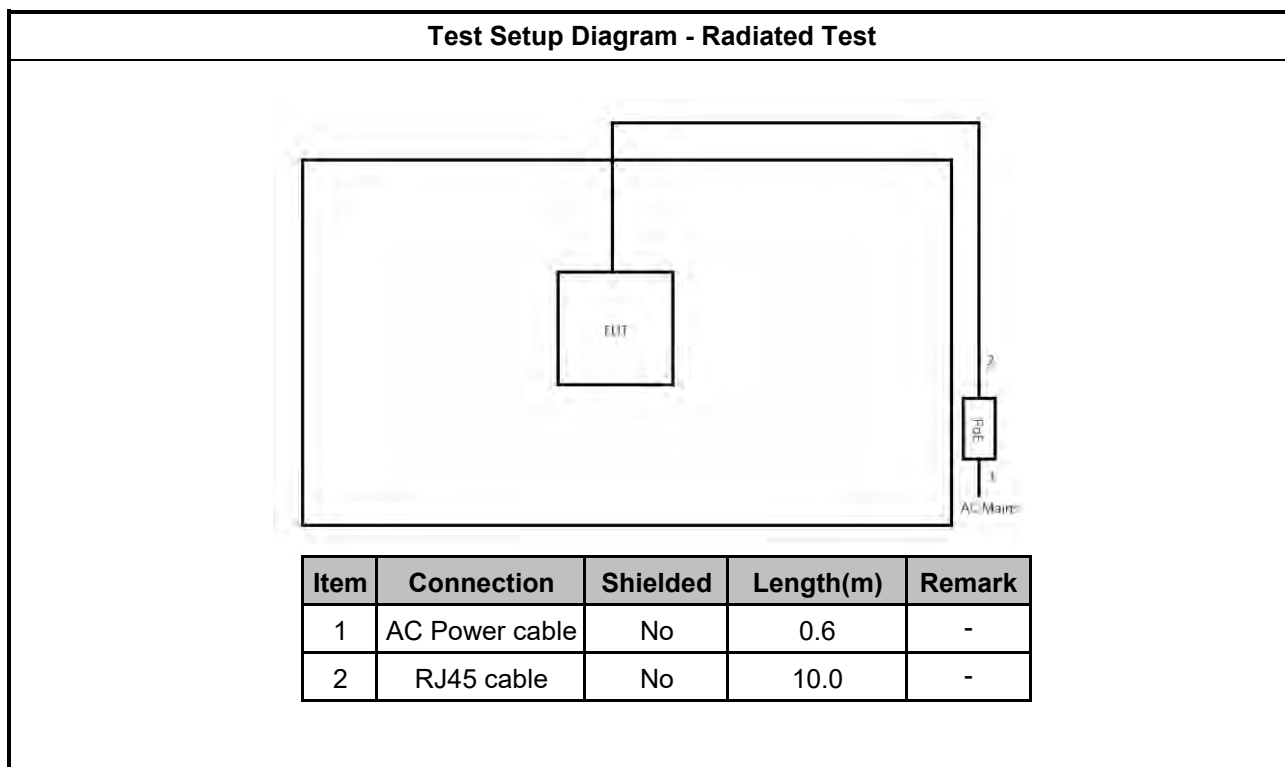
Reminder: Regarding to more detail and other information, please refer to user manual.

## 2.5 Support Equipment

| Support Equipment – Radiated |                |            |                        |        |                 |
|------------------------------|----------------|------------|------------------------|--------|-----------------|
| No.                          | Equipment      | Brand Name | Model Name             | FCC ID | Remark          |
| 1                            | RJ45 Cable     | Power Sync | CAT-6E-10              | -      | -               |
| 2                            | Adapter        | FSP        | FSP065-DWAN3           | -      | Client provided |
| 3                            | PoE            | SENAO      | EWS511AP_CE<br>W/O DFS | -      | Client provided |
| 4                            | AC Power Cable | Power Sync | TPCPHN0006             | -      | -               |
| 5                            | AC Power Cable | Power Sync | PW-GPC180-3            | -      | -               |

| Support Equipment – Conducted |                |            |              |        |        |
|-------------------------------|----------------|------------|--------------|--------|--------|
| No.                           | Equipment      | Brand Name | Model Name   | FCC ID | Remark |
| 1                             | Notebook       | DELL       | E5410        | -      | -      |
| 2                             | Adapter for NB | DELL       | HA65NM130    | -      | -      |
| 3                             | AC Adapter     | FSP        | FSP065-DWAN3 | -      | -      |

## 2.6 Test Setup Diagram



### 3 Transmitter Test Result

#### 3.1 Emission Bandwidth

##### 3.1.1 Emission Bandwidth Limit

| Emission Bandwidth Limit            |                                                                     |
|-------------------------------------|---------------------------------------------------------------------|
| <b>UNII Devices</b>                 |                                                                     |
| <input type="checkbox"/>            | For the 5.15-5.25 GHz band, N/A                                     |
| <input checked="" type="checkbox"/> | For the 5.25-5.35 GHz band, N/A                                     |
| <input checked="" type="checkbox"/> | For the 5.47-5.725 GHz band, N/A                                    |
| <input checked="" type="checkbox"/> | For the 5.725-5.85 GHz band, 6 dB emission bandwidth $\geq$ 500kHz. |

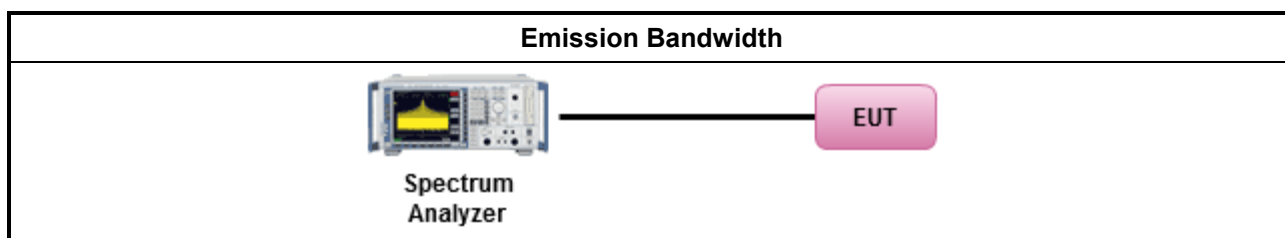
##### 3.1.2 Measuring Instruments

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

##### 3.1.3 Test Procedures

| Test Method                                                                                                                    |                                                                         |
|--------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>For the emission bandwidth shall be measured using one of the options below:</li> </ul> |                                                                         |
| <input checked="" type="checkbox"/>                                                                                            | Refer as KDB 789033, clause C for EBW and clause D for OBW measurement. |
| <input type="checkbox"/>                                                                                                       | Refer as ANSI C63.10, clause 6.9.3 for occupied bandwidth testing.      |
| <input type="checkbox"/>                                                                                                       | Refer as IC RSS-Gen, clause 6.7 for bandwidth testing.                  |

##### 3.1.4 Test Setup



##### 3.1.5 Test Result of Emission Bandwidth

Refer as Appendix A

## 3.2 Maximum Conducted Output Power

### 3.2.1 Maximum Conducted Output Power Limit

| Maximum Conducted Output Power Limit                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>UNII Devices</b>                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <input type="checkbox"/> For the 5.15-5.25 GHz band:             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <input type="checkbox"/>                                         | <ul style="list-style-type: none"> <li>Outdoor AP: the maximum conducted output power (<math>P_{Out}</math>) shall not exceed the lesser of 1 W. If <math>G_{TX} &gt; 6</math> dBi, then <math>P_{Out} = 30 - (G_{TX} - 6)</math>. e.i.r.p. at any elevation angle above 30 degrees <math>\leq 125</math>mW [21dBm]</li> <li>Indoor AP: the maximum conducted output power (<math>P_{Out}</math>) shall not exceed the lesser of 1 W. If <math>G_{TX} &gt; 6</math> dBi, then <math>P_{Out} = 30 - (G_{TX} - 6)</math></li> <li>Point-to-point AP: the maximum conducted output power (<math>P_{Out}</math>) shall not exceed the lesser of 1 W. If <math>G_{TX} &gt; 23</math> dBi, then <math>P_{Out} = 30 - (G_{TX} - 23)</math>.</li> <li>Mobile or Portable Client: the maximum conducted output power (<math>P_{Out}</math>) shall not exceed the lesser of 250 mW. If <math>G_{TX} &gt; 6</math> dBi, then <math>P_{Out} = 24 - (G_{TX} - 6)</math>.</li> </ul> |
| <input checked="" type="checkbox"/>                              | For the 5.25-5.35 GHz band, the maximum conducted output power ( $P_{Out}$ ) shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$ , where B is the 26 dB emission bandwidth in MHz. If $G_{TX} > 6$ dBi, then $P_{Out} = 24 - (G_{TX} - 6)$ .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <input checked="" type="checkbox"/>                              | For the 5.47-5.725 GHz band, the maximum conducted output power ( $P_{Out}$ ) shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$ , where B is the 26 dB emission bandwidth in MHz. If $G_{TX} > 6$ dBi, then $P_{Out} = 24 - (G_{TX} - 6)$ .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <input checked="" type="checkbox"/> For the 5.725-5.85 GHz band: |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <input checked="" type="checkbox"/>                              | <ul style="list-style-type: none"> <li>Point-to-multipoint systems (P2M): the maximum conducted output power (<math>P_{Out}</math>) shall not exceed the lesser of 1 W. If <math>G_{TX} &gt; 6</math> dBi, then <math>P_{Out} = 30 - (G_{TX} - 6)</math>.</li> <li>Point-to-point systems (P2P): the maximum conducted output power (<math>P_{Out}</math>) shall not exceed the lesser of 1 W.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

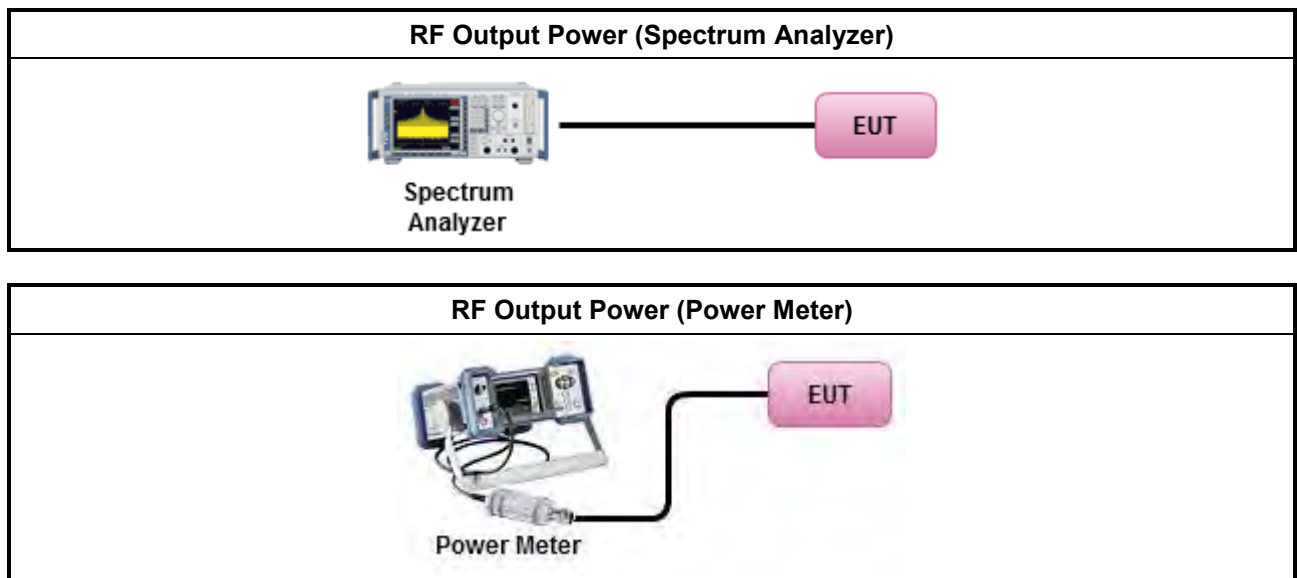
### 3.2.2 Measuring Instruments

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

### 3.2.3 Test Procedures

| Test Method                                                                                                                                                                                                                                                                                                                                                        |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| <ul style="list-style-type: none"> <li>Maximum Conducted Output Power</li> </ul>                                                                                                                                                                                                                                                                                   |  |
| Duty cycle $\geq 98\%$                                                                                                                                                                                                                                                                                                                                             |  |
| <input type="checkbox"/> Refer as KDB 789033, clause E Method SA-2 (spectral trace averaging).                                                                                                                                                                                                                                                                     |  |
| Duty cycle $< 98\%$                                                                                                                                                                                                                                                                                                                                                |  |
| <input checked="" type="checkbox"/> 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                                                                                                                                                                                                                                                                                           |  |
| <input checked="" type="checkbox"/> Refer as KDB 789033, clause E Method PM (using an RF average power meter).                                                                                                                                                                                                                                                     |  |
| <ul style="list-style-type: none"> <li>For conducted measurement.</li> </ul>                                                                                                                                                                                                                                                                                       |  |
| <ul style="list-style-type: none"> <li>If the EUT supports multiple transmit chains using options given below:<br/>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.</li> </ul> |  |
| <ul style="list-style-type: none"> <li>If multiple transmit chains, EIRP calculation could be following as methods:<br/> <math>P_{total} = P_1 + P_2 + \dots + P_n</math><br/> (calculated in linear unit [mW] and transfer to log unit [dBm])<br/> <math>EIRP_{total} = P_{total} + DG</math> </li> </ul>                                                         |  |

### 3.2.4 Test Setup



### 3.2.5 Test Result of Maximum Conducted Output Power

Refer as Appendix B



### 3.3 Peak Power Spectral Density

#### 3.3.1 Peak Power Spectral Density Limit

| Peak Power Spectral Density Limit   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>UNII Devices</b>                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <input type="checkbox"/>            | For the 5.15-5.25 GHz band:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <input type="checkbox"/>            | <ul style="list-style-type: none"> <li>Outdoor AP: the peak power spectral density (PPSD) shall not exceed the lesser of 17dBm/MHz. If <math>G_{TX} &gt; 6</math> dBi, then <math>P_{Out} = 17 - (G_{TX} - 6)</math>.</li> <li>Indoor AP: the peak power spectral density (PPSD) shall not exceed the lesser of 17dBm/MHz. If <math>G_{TX} &gt; 6</math> dBi, then <math>P_{Out} = 17 - (G_{TX} - 6)</math>.</li> <li>Point-to-point AP: the peak power spectral density (PPSD) shall not exceed the lesser of 17dBm/MHz. If <math>G_{TX} &gt; 23</math> dBi, then <math>P_{Out} = 17 - (G_{TX} - 23)</math>.</li> <li>Mobile or Portable Client: the peak power spectral density (PPSD) <math>\leq 11</math> dBm/MHz. If <math>G_{TX} &gt; 6</math> dBi, then <math>PPSD = 11 - (G_{TX} - 6)</math>.</li> </ul> |
| <input checked="" type="checkbox"/> | For the 5.25-5.35 GHz band, the peak power spectral density (PPSD) $\leq 11$ dBm/MHz. If $G_{TX} > 6$ dBi, then $PPSD = 11 - (G_{TX} - 6)$ .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <input checked="" type="checkbox"/> | For the 5.47-5.725 GHz band, the peak power spectral density (PPSD) $\leq 11$ dBm/MHz. If $G_{TX} > 6$ dBi, then $PPSD = 11 - (G_{TX} - 6)$ .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <input checked="" type="checkbox"/> | For the 5.725-5.85 GHz band:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <input type="checkbox"/>            | <ul style="list-style-type: none"> <li>Point-to-multipoint systems (P2M): the peak power spectral density (PPSD) <math>\leq 30</math> dBm/500kHz. If <math>G_{TX} &gt; 6</math> dBi, then <math>PPSD = 30 - (G_{TX} - 6)</math>.</li> <li>Point-to-point systems (P2P): the peak power spectral density (PPSD) <math>\leq 30</math> dBm/500kHz.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

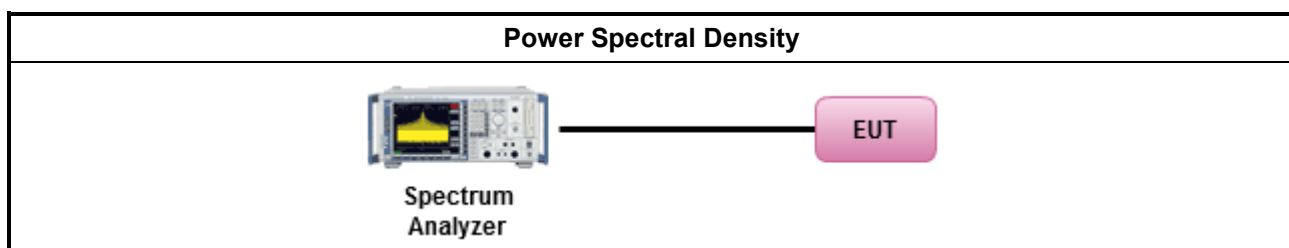
#### 3.3.2 Measuring Instruments

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

### 3.3.3 Test Procedures

| Test Method                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| <ul style="list-style-type: none"> <li>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:</li> </ul>                                                                                                                                                                                                                                                                                       |  |
| <input type="checkbox"/> 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%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |
| <input type="checkbox"/> Refer as KDB 789033, clause E Method SA-2 (spectral trace averaging).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |
| Duty cycle < 98%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |
| <input checked="" type="checkbox"/> Refer as KDB 789033, clause E Method SA-2 Alt. (RMS detection with slow sweep speed)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |
| <ul style="list-style-type: none"> <li>For conducted measurement.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |
| <ul style="list-style-type: none"> <li>If the EUT supports multiple transmit chains using options given below:</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |
| <input type="checkbox"/> 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. |  |
| <ul style="list-style-type: none"> <li>If multiple transmit chains, EIRP PPSD calculation could be following as methods:<br/> <math>PPSD_{total} = PPSD_1 + PPSD_2 + \dots + PPSD_n</math><br/>           (calculated in linear unit [mW] and transfer to log unit [dBm])<br/> <math>EIRP_{total} = PPSD_{total} + DG</math> </li> </ul>                                                                                                                                                                                                                                                                                                                                              |  |

### 3.3.4 Test Setup



### 3.3.5 Test Result of Peak Power Spectral Density

Refer as Appendix C

### 3.4 Unwanted Emissions

#### 3.4.1 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]<br>5.700-5720 GHz: e.i.r.p. 10 ~ 15.6 dBm [105.2 ~ 110.8 dBuV/m@3m]<br>5.720-5725 GHz: e.i.r.p. 15.6 ~ 27 dBm [110.8 ~ 122.2 dBuV/m@3m]<br>5.850-5.855 GHz: e.i.r.p. 27 ~ 15.6 dBm [122.2 ~ 110.8 dBuV/m@3m]<br>5.855-5.875 GHz: e.i.r.p. 15.6 ~ 10 dBm [110.8 ~ 105.2 dBuV/m@3m]<br>5.875-5.925 GHz: e.i.r.p. 10 ~ -27 dBm [105.2 ~ 68.2dBuV/m@3m]<br>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).

### 3.4.2 Measuring Instruments

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

### 3.4.3 Test Procedures

| Test Method                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                    |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>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).</li> </ul> |                                                                                                                                                    |
| <ul style="list-style-type: none"> <li>The average emission levels shall be measured in [duty cycle <math>\geq</math> 98 or duty factor].</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                    |
| <ul style="list-style-type: none"> <li>For the transmitter unwanted emissions shall be measured using following options below:</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <ul style="list-style-type: none"> <li>Refer as KDB 789033, clause G)2) for unwanted emissions into non-restricted bands.</li> </ul>               |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <ul style="list-style-type: none"> <li>Refer as KDB 789033, clause G)1) for unwanted emissions into restricted bands.</li> </ul>                   |
| <input checked="" type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Refer as KDB 789033, G)6) Method VB (ANSI C63.10, clause 4.1.4.2.3), Reduced VBW.                                                                  |
| <input checked="" type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Refer as KDB 789033, clause G)5) (ANSI C63.10, clause 4.1.4.2.2), measurement procedure peak limit.                                                |
| <ul style="list-style-type: none"> <li>For radiated measurement.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <ul style="list-style-type: none"> <li>Refer as ANSI C63.10, clause 6.4 for radiated emissions below 30 MHz and test distance is 3m.</li> </ul>    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <ul style="list-style-type: none"> <li>Refer as ANSI C63.10, clause 6.5 for radiated emissions 30 MHz to 1 GHz and test distance is 3m.</li> </ul> |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <ul style="list-style-type: none"> <li>Refer as ANSI C63.10, clause 6.6 for radiated emissions above 1GHz.</li> </ul>                              |
| <ul style="list-style-type: none"> <li>The any unwanted emissions level shall not exceed the fundamental emission level.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                    |
| <ul style="list-style-type: none"> <li>All amplitude of spurious emissions that are attenuated by more than 20 dB below the permissible value has no need to be reported.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                    |

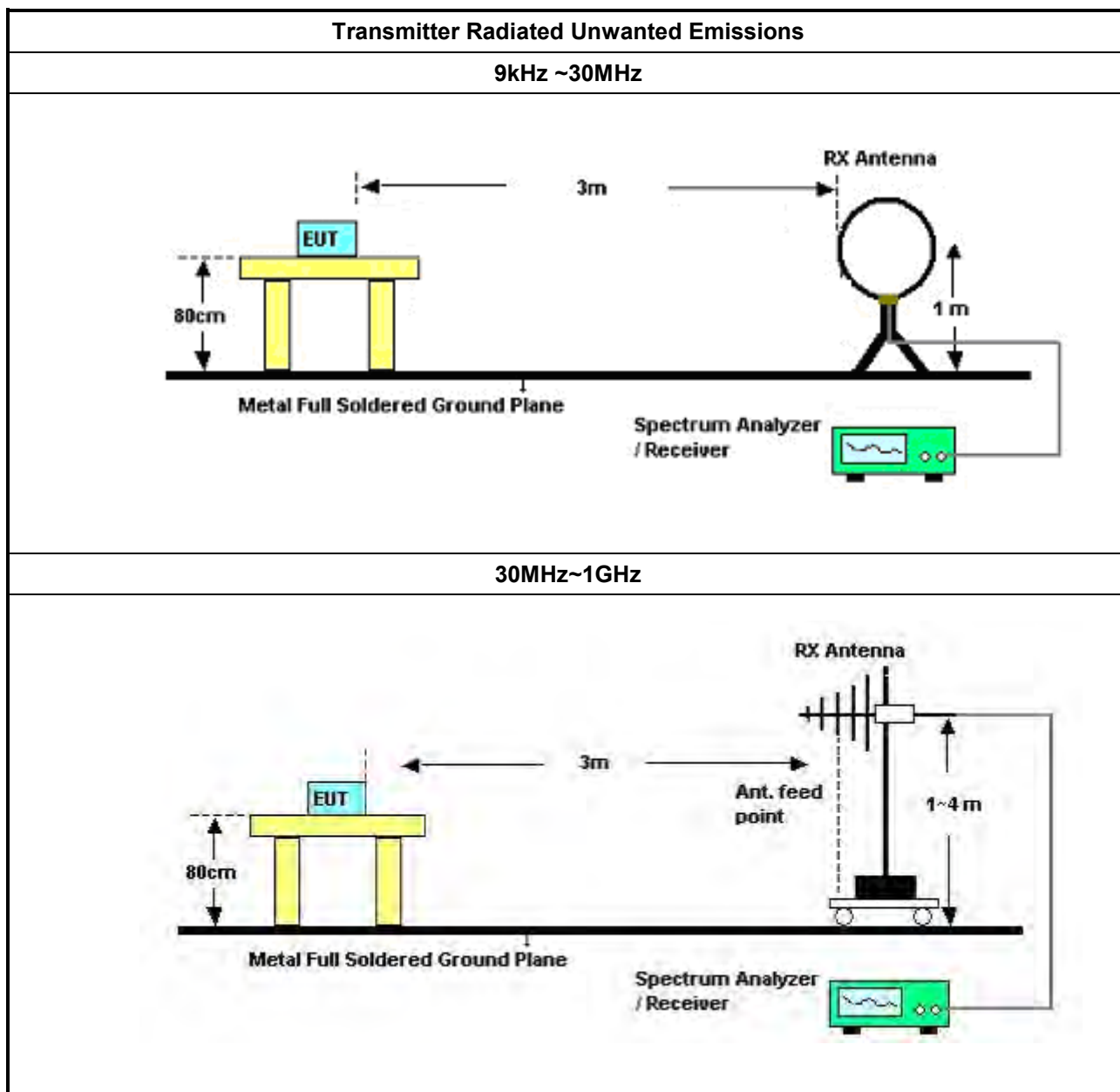
|                                                                                                                           |                                                                                                                                                                                                                                                       |
|---------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>Use the following spectrum analyzer settings:</li> </ul>                           |                                                                                                                                                                                                                                                       |
|                                                                                                                           | <ul style="list-style-type: none"> <li>Set RBW=100 kHz for <math>f &lt; 1</math> GHz; VBW=3 * RBW; Sweep = auto; Detector function = peak; Trace = max hold.</li> </ul>                                                                               |
|                                                                                                                           | <ul style="list-style-type: none"> <li>Set RBW = 1 MHz, VBW= 3MHz for <math>f \geq 1</math> GHz for peak measurement.<br/>For average measurement, refer as 1.1.4.</li> </ul>                                                                         |
| <ul style="list-style-type: none"> <li>KDB 414788 Open-Field Test Sites and Chamber Correlation Justification.</li> </ul> |                                                                                                                                                                                                                                                       |
|                                                                                                                           | <ul style="list-style-type: none"> <li>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.</li> </ul> |
|                                                                                                                           | <ul style="list-style-type: none"> <li>Open-field site and chamber correlation testing had been performed and chamber measured test result is the worst case test result.</li> </ul>                                                                  |

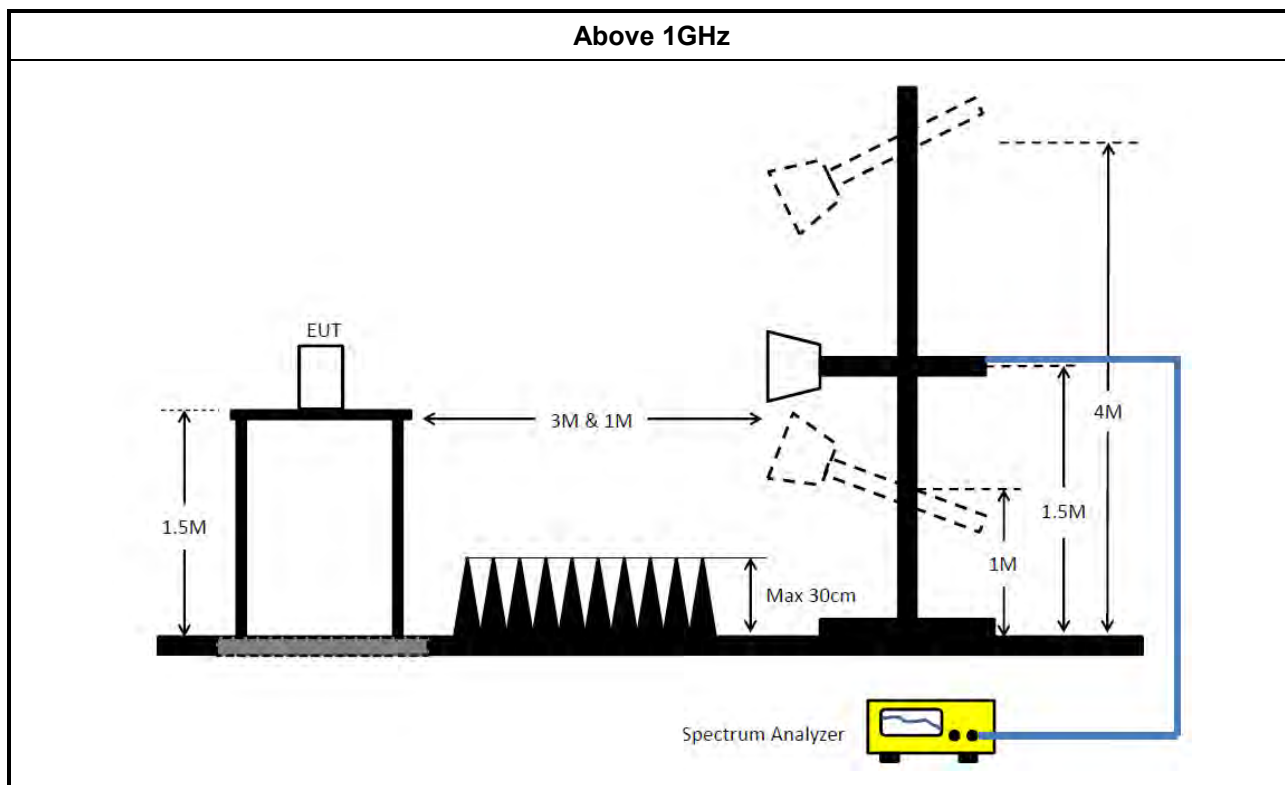
### 3.4.4 Measurement Results Calculation

The measured Level is calculated using:

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

### 3.4.5 Test Setup





### 3.4.6 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.

### 3.4.7 Test Result of Transmitter Unwanted Emissions

Refer as Appendix D



## 4 Test Equipment and Calibration Data

### 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/2022          |
| 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          |

### 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<br>3m | 04/Aug/2020      | 03/Aug/2021          |
| 3m Semi Anechoic Chamber         | SIDT FRANKONIA      | SAC-3M                 | 03CH02-HY         | 1GHz~18GHz<br>3m | 02/Aug/2020      | 01/Aug/2021          |
| Signal Analyzer                  | R&S                 | FSP40                  | 100593            | 9kHz~40GHz       | 27/Feb/2020      | 26/Feb/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           | SCHWARZBEC          | BBHA 9170              | BBHA 9170221      | 18GHz~40GHz      | 13/Mar/2020      | 12/Mar/2021          |
| Preamplifier                     | MITEQ               | TTA1840-35-HG          | 1864481           | 18GHz~40GHz      | 10/Mar/2020      | 09/Mar/2021          |
| Loop Antenna                     | TESEQ               | HLA 6120               | 31244             | 9kHz~30MHz       | 16/Mar/2020      | 15/Mar/2021          |
| EMI Test Receiver                | R&S                 | ESR3                   | 102051            | 9kHz~3.6GHz      | 29/May/2020      | 28/May/2021          |

**Summary**

| Mode                           | Max-N dB<br>(Hz) | Max-OBW<br>(Hz) | ITU-Code | Min-N dB<br>(Hz) | Min-OBW<br>(Hz) |
|--------------------------------|------------------|-----------------|----------|------------------|-----------------|
| 5.25-5.35GHz                   | -                | -               | -        | -                | -               |
| 802.11a_Nss1,(6Mbps)_2TX       | 19.47M           | 16.402M         | 16M4D1D  | 18.81M           | 16.312M         |
| 802.11n HT20_Nss1,(MCS0)_2TX   | 21.45M           | 17.691M         | 17M7D1D  | 21.03M           | 17.631M         |
| 802.11n HT40_Nss1,(MCS0)_2TX   | 40.74M           | 36.282M         | 36M3D1D  | 40.08M           | 36.222M         |
| 802.11ac VHT20_Nss1,(MCS0)_2TX | 21.54M           | 17.721M         | 17M7D1D  | 20.7M            | 17.661M         |
| 802.11ac VHT40_Nss1,(MCS0)_2TX | 40.14M           | 36.162M         | 36M2D1D  | 39.54M           | 35.862M         |
| 802.11ac VHT80_Nss1,(MCS0)_2TX | 81.24M           | 75.802M         | 75M8D1D  | 81.12M           | 75.682M         |
| 802.11ax HEW20_Nss1,(MCS0)_2TX | 21.66M           | 18.981M         | 19MOD1D  | 21.18M           | 18.861M         |
| 802.11ax HEW40_Nss1,(MCS0)_2TX | 40.98M           | 37.961M         | 38MOD1D  | 40.5M            | 37.781M         |
| 802.11ax HEW80_Nss1,(MCS0)_2TX | 82.2M            | 77.001M         | 77MOD1D  | 81.12M           | 76.762M         |
| 5.47-5.725GHz                  | -                | -               | -        | -                | -               |
| 802.11a_Nss1,(6Mbps)_2TX       | 20.55M           | 16.492M         | 16M5D1D  | 15.166M          | 13.207M         |
| 802.11n HT20_Nss1,(MCS0)_2TX   | 21.66M           | 17.691M         | 17M7D1D  | 15.606M          | 13.798M         |
| 802.11n HT40_Nss1,(MCS0)_2TX   | 40.74M           | 36.342M         | 36M3D1D  | 35.37M           | 32.991M         |
| 802.11ac VHT20_Nss1,(MCS0)_2TX | 21.54M           | 17.631M         | 17M6D1D  | 15.276M          | 13.771M         |
| 802.11ac VHT40_Nss1,(MCS0)_2TX | 39.66M           | 35.982M         | 36M0D1D  | 35.201M          | 32.924M         |
| 802.11ac VHT80_Nss1,(MCS0)_2TX | 82.2M            | 75.802M         | 75M8D1D  | 75.741M          | 72.239M         |
| 802.11ax HEW20_Nss1,(MCS0)_2TX | 21.63M           | 18.951M         | 19MOD1D  | 15.648M          | 14.444M         |
| 802.11ax HEW40_Nss1,(MCS0)_2TX | 41.52M           | 37.961M         | 38MOD1D  | 35.505M          | 33.801M         |
| 802.11ax HEW80_Nss1,(MCS0)_2TX | 82.44M           | 77.241M         | 77M2D1D  | 75.741M          | 72.829M         |
| 5.725-5.85GHz                  | -                | -               | -        | -                | -               |
| 802.11a_Nss1,(6Mbps)_2TX       | 3.135M           | 3.628M          | 3M63D1D  | 3.135M           | 3.538M          |
| 802.11n HT20_Nss1,(MCS0)_2TX   | 3.87M            | 4.138M          | 4M14D1D  | 3.375M           | 4.123M          |
| 802.11n HT40_Nss1,(MCS0)_2TX   | 3.18M            | 3.688M          | 3M69D1D  | 3.165M           | 3.658M          |
| 802.11ac VHT20_Nss1,(MCS0)_2TX | 3.48M            | 4.078M          | 4M08D1D  | 3.105M           | 4.033M          |
| 802.11ac VHT40_Nss1,(MCS0)_2TX | 3.15M            | 3.718M          | 3M72D1D  | 3.12M            | 3.703M          |
| 802.11ac VHT80_Nss1,(MCS0)_2TX | 3.15M            | 3.928M          | 3M93D1D  | 3.135M           | 3.898M          |
| 802.11ax HEW20_Nss1,(MCS0)_2TX | 4.53M            | 4.603M          | 4M60D1D  | 4.425M           | 4.573M          |
| 802.11ax HEW40_Nss1,(MCS0)_2TX | 4.035M           | 4.153M          | 4M15D1D  | 4.005M           | 4.138M          |
| 802.11ax HEW80_Nss1,(MCS0)_2TX | 4.11M            | 4.138M          | 4M14D1D  | 4.035M           | 4.138M          |

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



**Result**

| Mode                           | Result | Limit (Hz) | Port 1-N dB (Hz) | Port 1-OBW (Hz) | Port 2-N dB (Hz) | Port 2-OBW (Hz) |
|--------------------------------|--------|------------|------------------|-----------------|------------------|-----------------|
| 802.11a_Nss1,(6Mbps)_2TX       | -      | -          | -                | -               | -                | -               |
| 5260MHz                        | Pass   | Inf        | 18.9M            | 16.402M         | 18.87M           | 16.402M         |
| 5300MHz                        | Pass   | Inf        | 18.81M           | 16.402M         | 18.81M           | 16.312M         |
| 5320MHz                        | Pass   | Inf        | 19.32M           | 16.312M         | 19.47M           | 16.312M         |
| 5500MHz                        | Pass   | Inf        | 20.55M           | 16.372M         | 19.95M           | 16.402M         |
| 5580MHz                        | Pass   | Inf        | 19.86M           | 16.432M         | 19.92M           | 16.432M         |
| 5700MHz                        | Pass   | Inf        | 20.04M           | 16.432M         | 20.37M           | 16.492M         |
| 5720MHz Straddle 5.47-5.725GHz | Pass   | Inf        | 15.276M          | 13.207M         | 15.166M          | 13.207M         |
| 5720MHz Straddle 5.725-5.85GHz | Pass   | 500k       | 3.135M           | 3.538M          | 3.135M           | 3.628M          |
| 802.11n HT20_Nss1,(MCS0)_2TX   | -      | -          | -                | -               | -                | -               |
| 5260MHz                        | Pass   | Inf        | 21.27M           | 17.691M         | 21.45M           | 17.691M         |
| 5300MHz                        | Pass   | Inf        | 21.03M           | 17.661M         | 21.33M           | 17.691M         |
| 5320MHz                        | Pass   | Inf        | 21.21M           | 17.631M         | 21.03M           | 17.691M         |
| 5500MHz                        | Pass   | Inf        | 21.66M           | 17.691M         | 21.39M           | 17.631M         |
| 5580MHz                        | Pass   | Inf        | 21.06M           | 17.631M         | 21.12M           | 17.661M         |
| 5700MHz                        | Pass   | Inf        | 21.03M           | 17.631M         | 21.24M           | 17.601M         |
| 5720MHz Straddle 5.47-5.725GHz | Pass   | Inf        | 15.868M          | 13.839M         | 15.606M          | 13.798M         |
| 5720MHz Straddle 5.725-5.85GHz | Pass   | 500k       | 3.87M            | 4.123M          | 3.375M           | 4.138M          |
| 802.11n HT40_Nss1,(MCS0)_2TX   | -      | -          | -                | -               | -                | -               |
| 5270MHz                        | Pass   | Inf        | 40.74M           | 36.222M         | 40.2M            | 36.282M         |
| 5310MHz                        | Pass   | Inf        | 40.62M           | 36.222M         | 40.08M           | 36.282M         |
| 5510MHz                        | Pass   | Inf        | 40.56M           | 36.282M         | 40.32M           | 36.342M         |
| 5550MHz                        | Pass   | Inf        | 40.62M           | 36.282M         | 40.32M           | 36.162M         |
| 5670MHz                        | Pass   | Inf        | 40.74M           | 36.222M         | 40.08M           | 36.282M         |
| 5710MHz Straddle 5.47-5.725GHz | Pass   | Inf        | 35.539M          | 32.991M         | 35.37M           | 32.991M         |
| 5710MHz Straddle 5.725-5.85GHz | Pass   | 500k       | 3.165M           | 3.658M          | 3.18M            | 3.688M          |
| 802.11ac VHT20_Nss1,(MCS0)_2TX | -      | -          | -                | -               | -                | -               |
| 5260MHz                        | Pass   | Inf        | 21.54M           | 17.721M         | 21.24M           | 17.721M         |
| 5300MHz                        | Pass   | Inf        | 20.7M            | 17.661M         | 21M              | 17.661M         |
| 5320MHz                        | Pass   | Inf        | 21.21M           | 17.661M         | 21.15M           | 17.691M         |
| 5500MHz                        | Pass   | Inf        | 21.06M           | 17.631M         | 21.33M           | 17.631M         |
| 5580MHz                        | Pass   | Inf        | 20.97M           | 17.631M         | 20.73M           | 17.631M         |
| 5700MHz                        | Pass   | Inf        | 20.94M           | 17.571M         | 21.54M           | 17.631M         |
| 5720MHz Straddle 5.47-5.725GHz | Pass   | Inf        | 15.331M          | 13.771M         | 15.276M          | 13.784M         |
| 5720MHz Straddle 5.725-5.85GHz | Pass   | 500k       | 3.48M            | 4.078M          | 3.105M           | 4.033M          |
| 802.11ac VHT40_Nss1,(MCS0)_2TX | -      | -          | -                | -               | -                | -               |
| 5270MHz                        | Pass   | Inf        | 40.14M           | 36.162M         | 39.72M           | 36.162M         |
| 5310MHz                        | Pass   | Inf        | 39.84M           | 35.922M         | 39.54M           | 35.862M         |
| 5510MHz                        | Pass   | Inf        | 39.66M           | 35.982M         | 39.6M            | 35.862M         |
| 5550MHz                        | Pass   | Inf        | 39.24M           | 35.922M         | 39.06M           | 35.802M         |
| 5670MHz                        | Pass   | Inf        | 39.36M           | 35.802M         | 39.24M           | 35.742M         |
| 5710MHz Straddle 5.47-5.725GHz | Pass   | Inf        | 35.201M          | 32.924M         | 35.269M          | 32.991M         |
| 5710MHz Straddle 5.725-5.85GHz | Pass   | 500k       | 3.12M            | 3.703M          | 3.15M            | 3.718M          |
| 802.11ac VHT80_Nss1,(MCS0)_2TX | -      | -          | -                | -               | -                | -               |
| 5290MHz                        | Pass   | Inf        | 81.12M           | 75.682M         | 81.24M           | 75.802M         |
| 5530MHz                        | Pass   | Inf        | 82.2M            | 75.562M         | 81.6M            | 75.802M         |
| 5610MHz                        | Pass   | Inf        | 81.24M           | 75.682M         | 81M              | 75.442M         |
| 5690MHz Straddle 5.47-5.725GHz | Pass   | Inf        | 75.889M          | 72.239M         | 75.741M          | 72.313M         |
| 5690MHz Straddle 5.725-5.85GHz | Pass   | 500k       | 3.15M            | 3.898M          | 3.135M           | 3.928M          |
| 802.11ax HEW20_Nss1,(MCS0)_2TX | -      | -          | -                | -               | -                | -               |
| 5260MHz                        | Pass   | Inf        | 21.57M           | 18.861M         | 21.18M           | 18.861M         |
| 5300MHz                        | Pass   | Inf        | 21.21M           | 18.951M         | 21.45M           | 18.861M         |
| 5320MHz                        | Pass   | Inf        | 21.66M           | 18.981M         | 21.45M           | 18.951M         |
| 5500MHz                        | Pass   | Inf        | 21.12M           | 18.921M         | 21.63M           | 18.891M         |
| 5580MHz                        | Pass   | Inf        | 21.48M           | 18.951M         | 21.15M           | 18.951M         |



## EBW\_Non-Beamforming\_Radio 1

## Appendix A.1

| Mode                           | Result | Limit<br>(Hz) | Port 1-N dB<br>(Hz) | Port 1-OBW<br>(Hz) | Port 2-N dB<br>(Hz) | Port 2-OBW<br>(Hz) |
|--------------------------------|--------|---------------|---------------------|--------------------|---------------------|--------------------|
| 5700MHz                        | Pass   | Inf           | 21.63M              | 18.891M            | 20.97M              | 18.861M            |
| 5720MHz Straddle 5.47-5.725GHz | Pass   | Inf           | 15.648M             | 14.444M            | 15.661M             | 14.485M            |
| 5720MHz Straddle 5.725-5.85GHz | Pass   | 500k          | 4.53M               | 4.573M             | 4.425M              | 4.603M             |
| 802.11ax HEW40_Nss1,(MCS0)_2TX | -      | -             | -                   | -                  | -                   | -                  |
| 5270MHz                        | Pass   | Inf           | 40.62M              | 37.961M            | 40.98M              | 37.961M            |
| 5310MHz                        | Pass   | Inf           | 40.98M              | 37.841M            | 40.5M               | 37.781M            |
| 5510MHz                        | Pass   | Inf           | 41.16M              | 37.961M            | 41.52M              | 37.841M            |
| 5550MHz                        | Pass   | Inf           | 41.4M               | 37.901M            | 40.86M              | 37.841M            |
| 5670MHz                        | Pass   | Inf           | 40.62M              | 37.901M            | 40.62M              | 37.721M            |
| 5710MHz Straddle 5.47-5.725GHz | Pass   | Inf           | 35.539M             | 33.834M            | 35.505M             | 33.801M            |
| 5710MHz Straddle 5.725-5.85GHz | Pass   | 500k          | 4.035M              | 4.153M             | 4.005M              | 4.138M             |
| 802.11ax HEW80_Nss1,(MCS0)_2TX | -      | -             | -                   | -                  | -                   | -                  |
| 5290MHz                        | Pass   | Inf           | 82.2M               | 77.001M            | 81.12M              | 76.762M            |
| 5530MHz                        | Pass   | Inf           | 81.96M              | 76.642M            | 81.6M               | 77.121M            |
| 5610MHz                        | Pass   | Inf           | 82.44M              | 77.241M            | 82.08M              | 77.121M            |
| 5690MHz Straddle 5.47-5.725GHz | Pass   | Inf           | 76.258M             | 72.829M            | 75.741M             | 72.902M            |
| 5690MHz Straddle 5.725-5.85GHz | Pass   | 500k          | 4.11M               | 4.138M             | 4.035M              | 4.138M             |

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

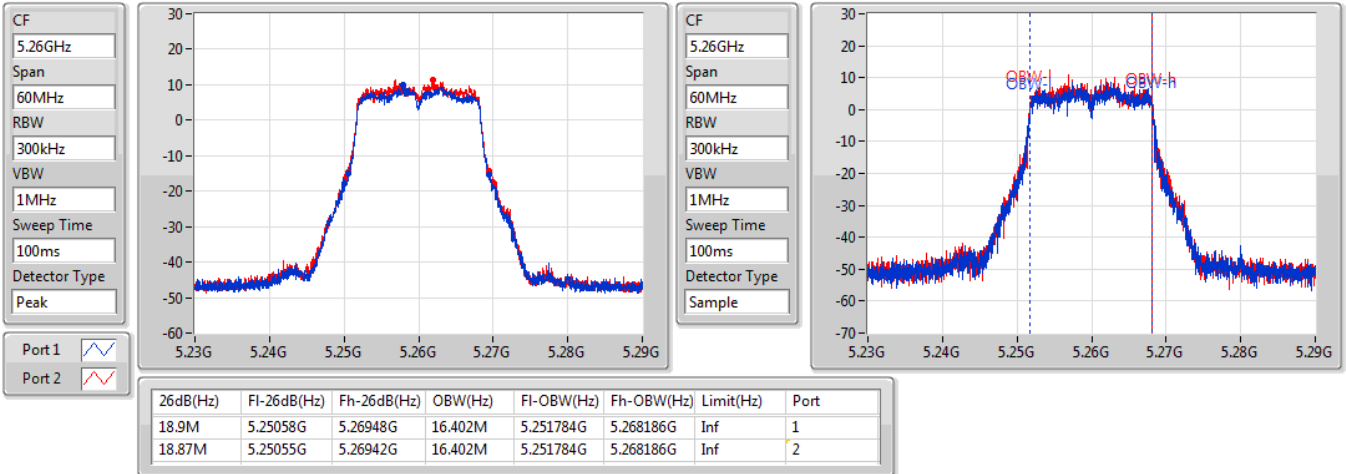
Port X-OBW = Port X 99% occupied bandwidth

## 802.11a\_Nss1,(6Mbps)\_2TX

EBW

5260MHz

24/12/2020

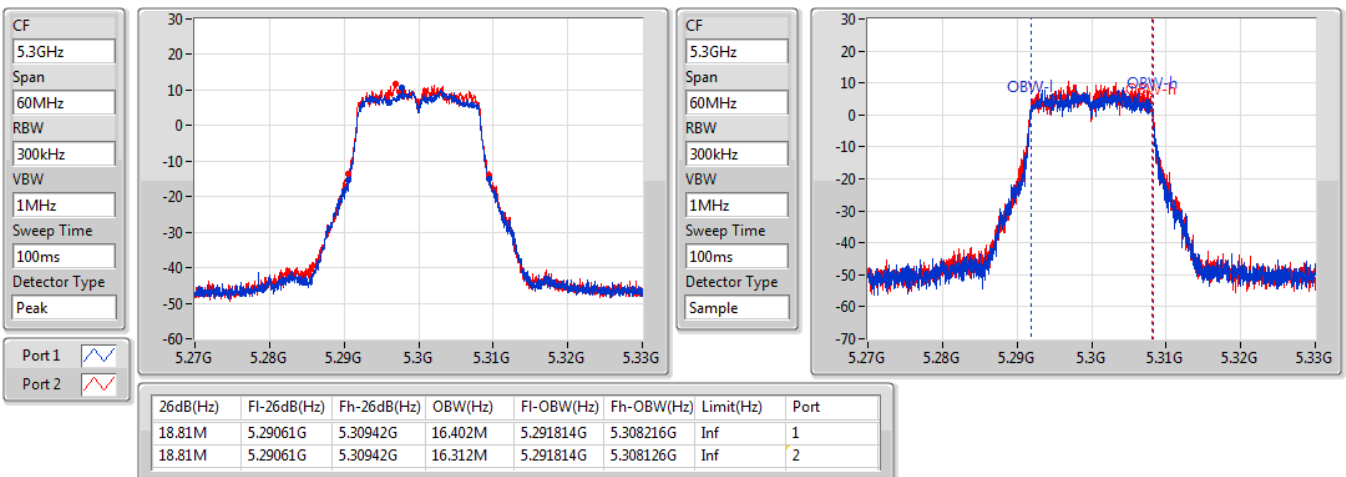


## 802.11a\_Nss1,(6Mbps)\_2TX

EBW

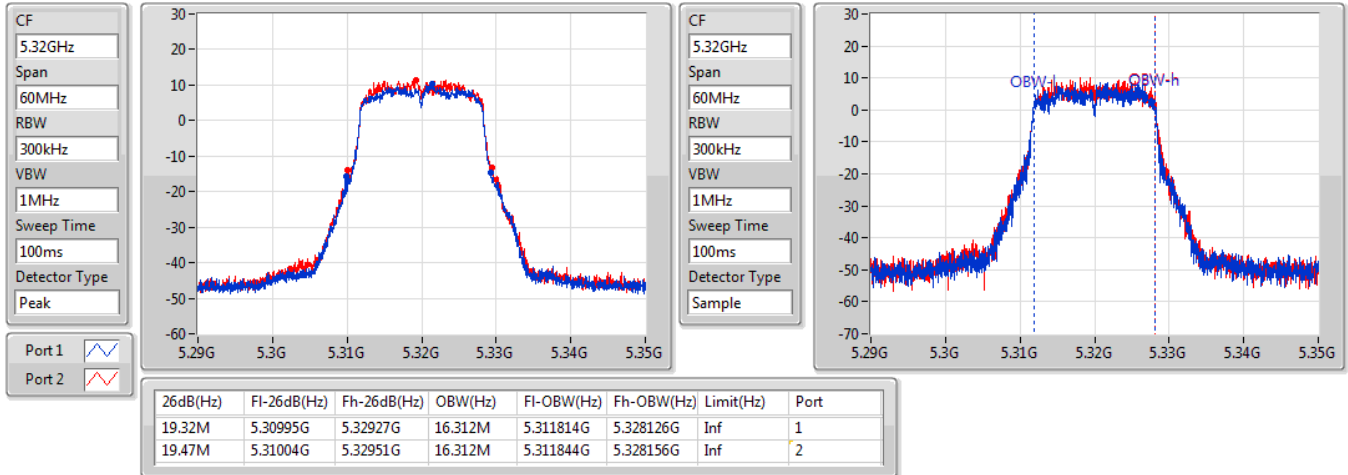
5300MHz

24/12/2020

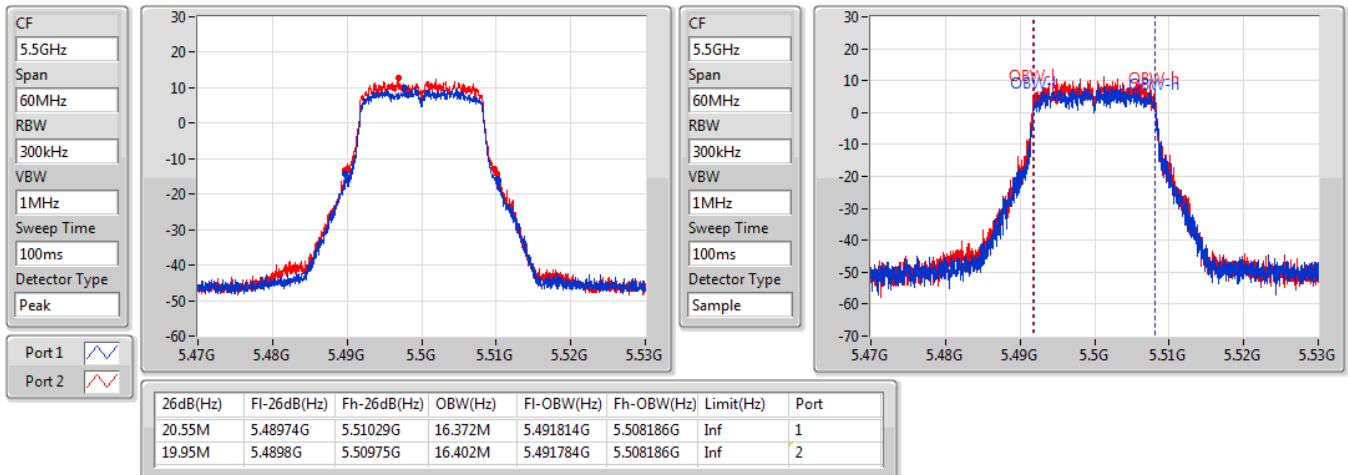


**802.11a\_Nss1,(6Mbps)\_2TX**
**EBW**
**5320MHz**

24/12/2020

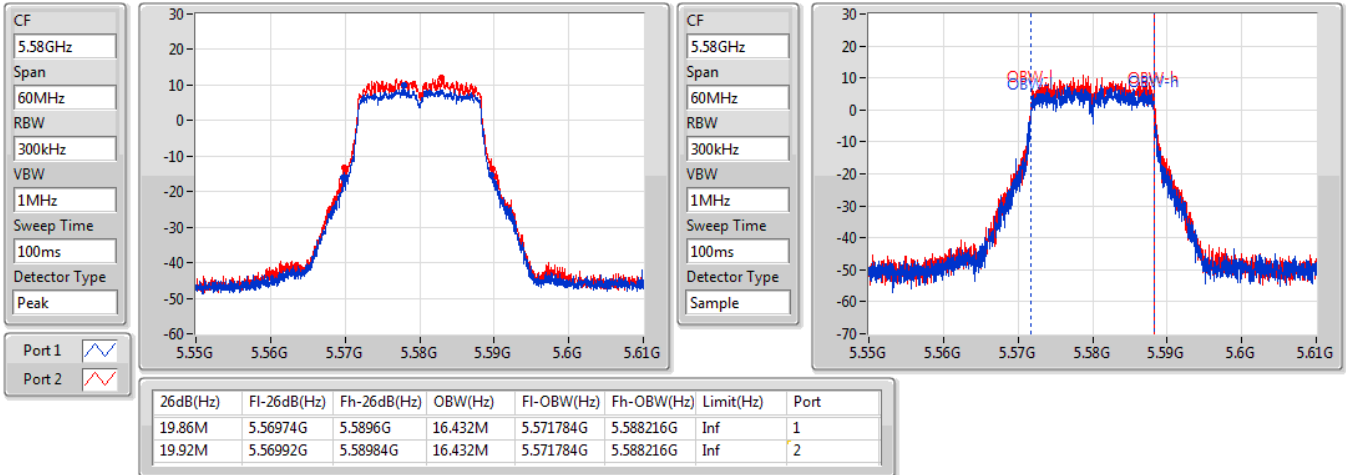

**802.11a\_Nss1,(6Mbps)\_2TX**
**EBW**
**5500MHz**

24/12/2020

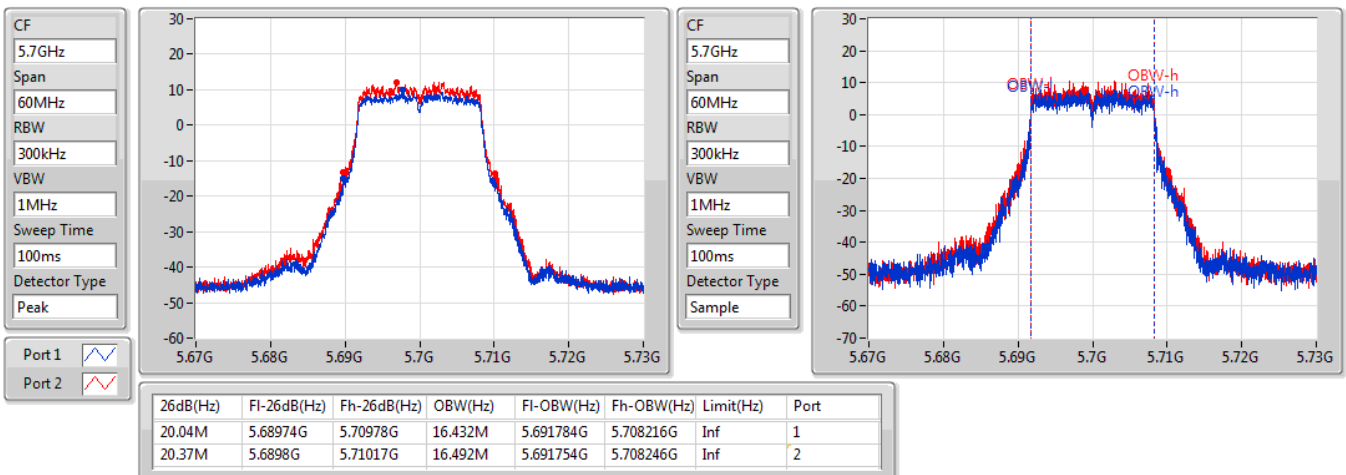


**802.11a\_Nss1,(6Mbps)\_2TX**
**EBW**
**5580MHz**

24/12/2020

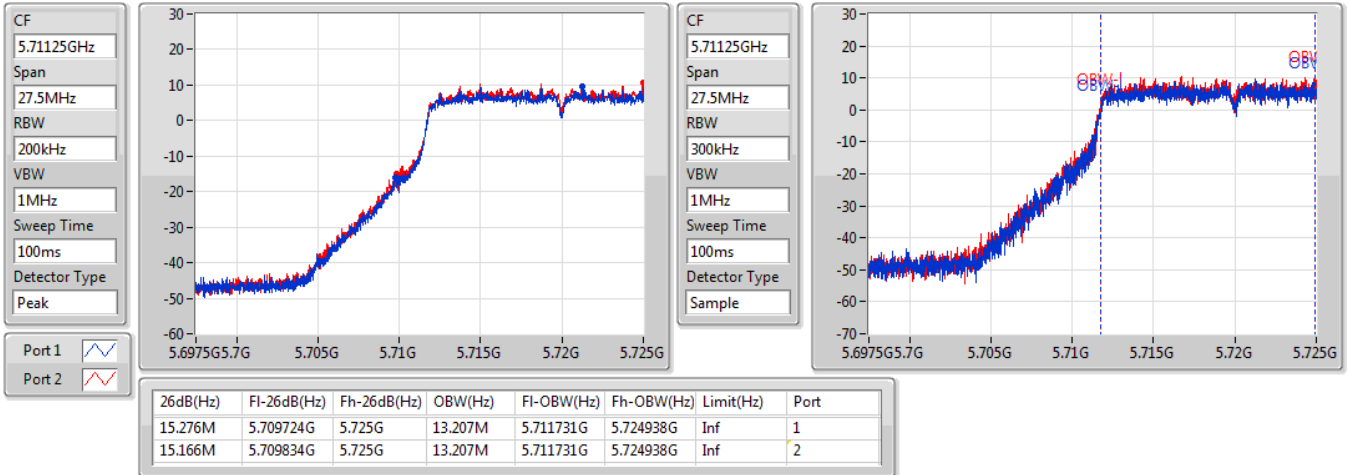

**802.11a\_Nss1,(6Mbps)\_2TX**
**EBW**
**5700MHz**

24/12/2020

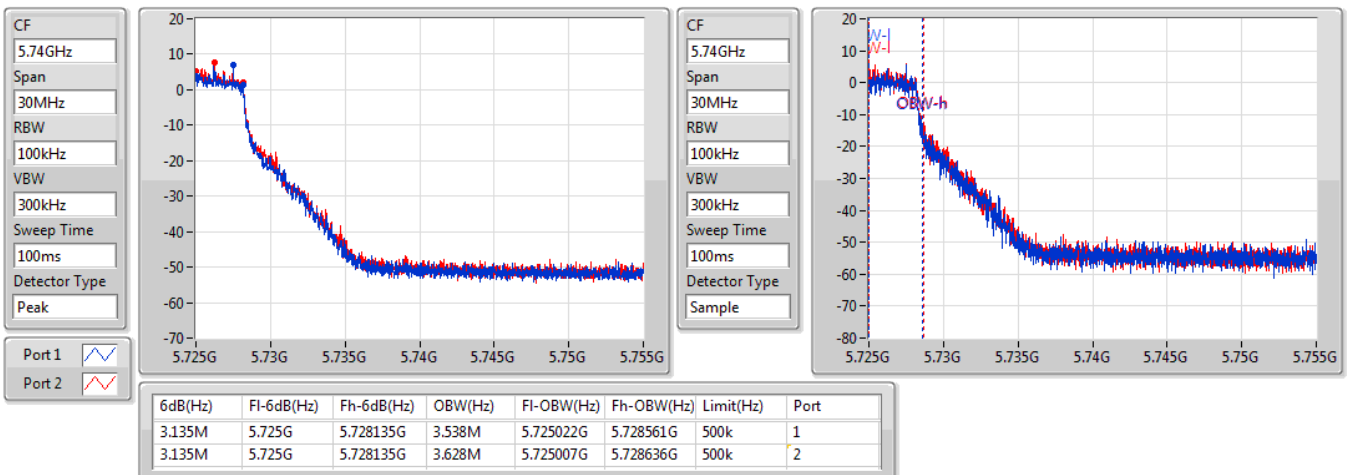


**802.11a\_Nss1,(6Mbps)\_2TX**
**EBW**
**5720MHz Straddle 5.47-5.725GHz**

24/12/2020

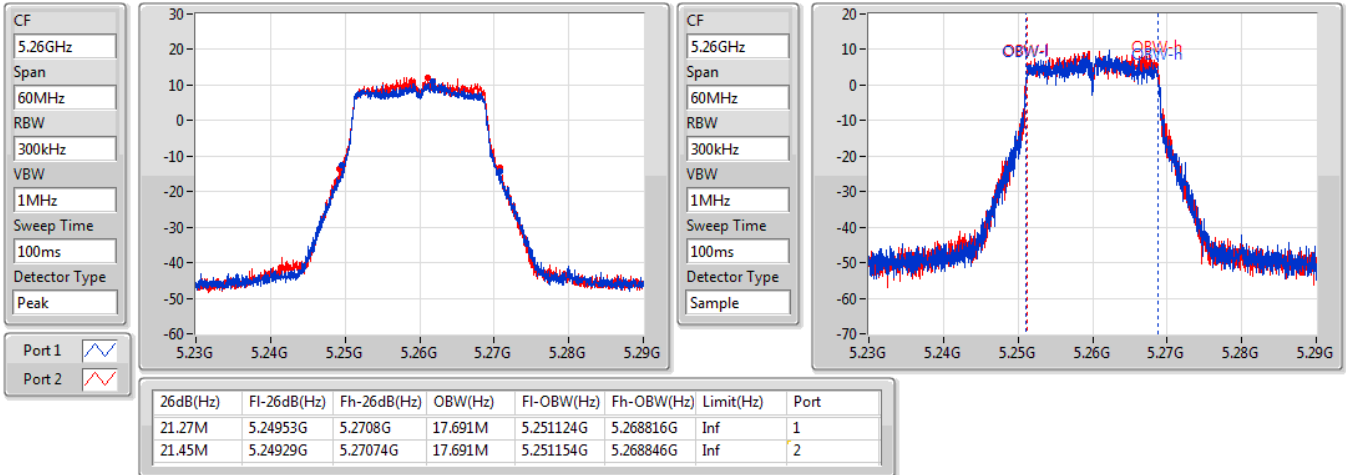

**802.11a\_Nss1,(6Mbps)\_2TX**
**EBW**
**5720MHz Straddle 5.725-5.85GHz**

24/12/2020

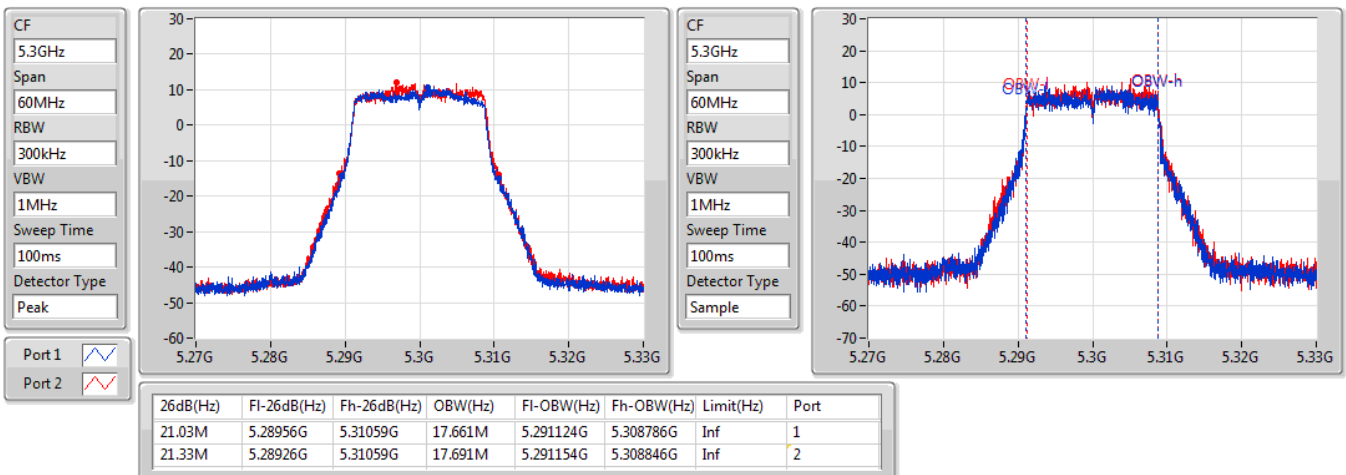


**802.11n HT20\_Nss1,(MCS0)\_2TX**
**EBW**
**5260MHz**

24/12/2020

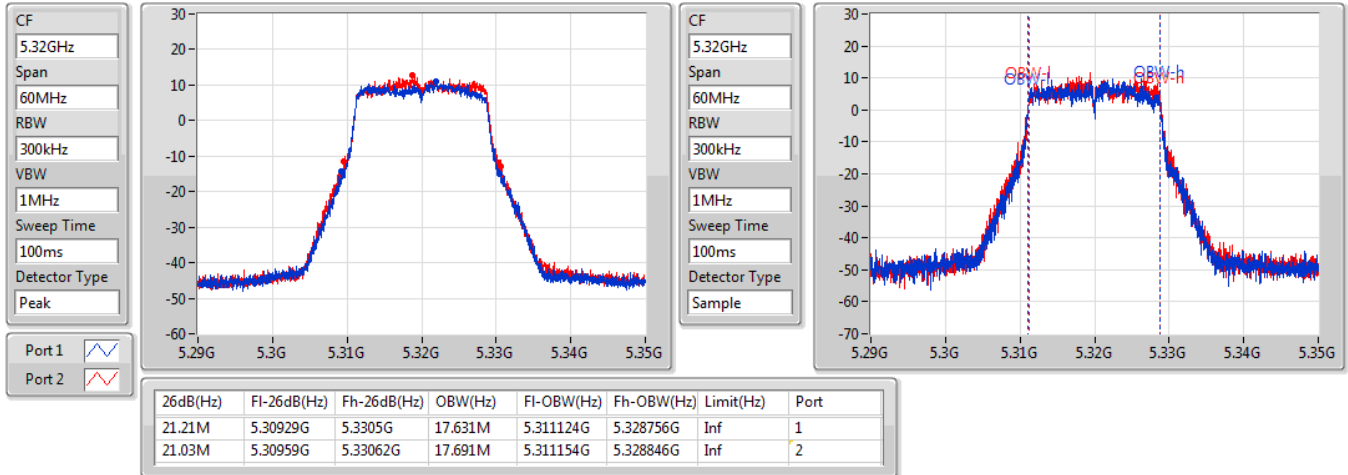

**802.11n HT20\_Nss1,(MCS0)\_2TX**
**EBW**
**5300MHz**

24/12/2020

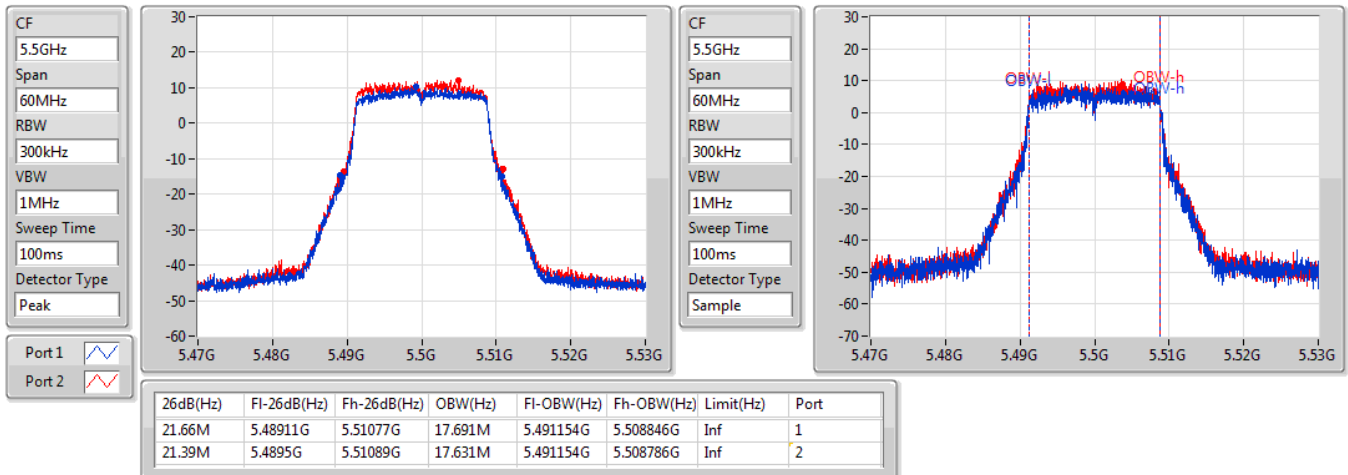


**802.11n HT20\_Nss1,(MCS0)\_2TX**
**EBW**
**5320MHz**

24/12/2020


**802.11n HT20\_Nss1,(MCS0)\_2TX**
**EBW**
**5500MHz**

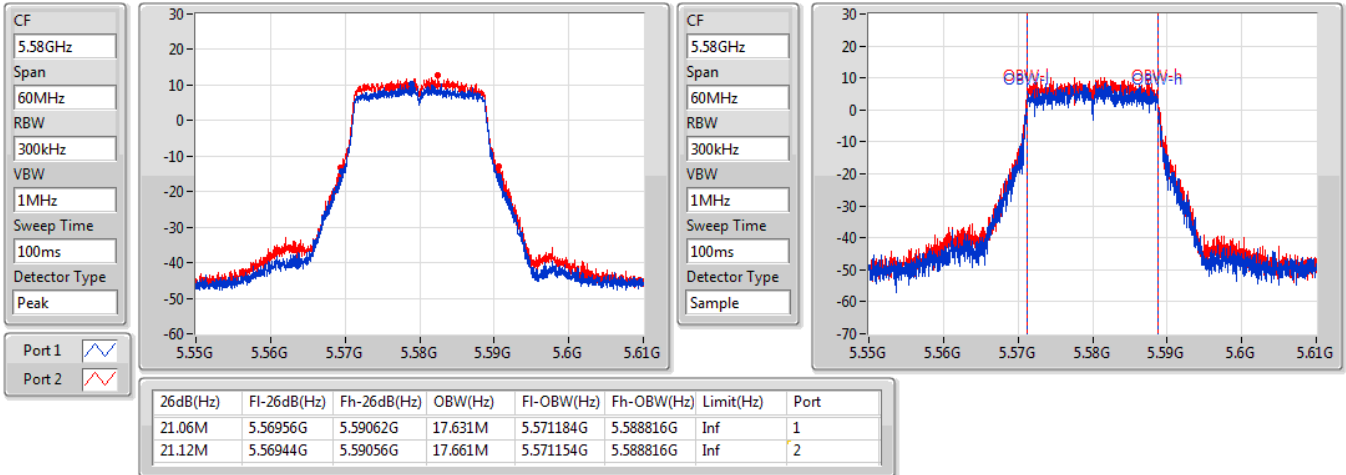
24/12/2020



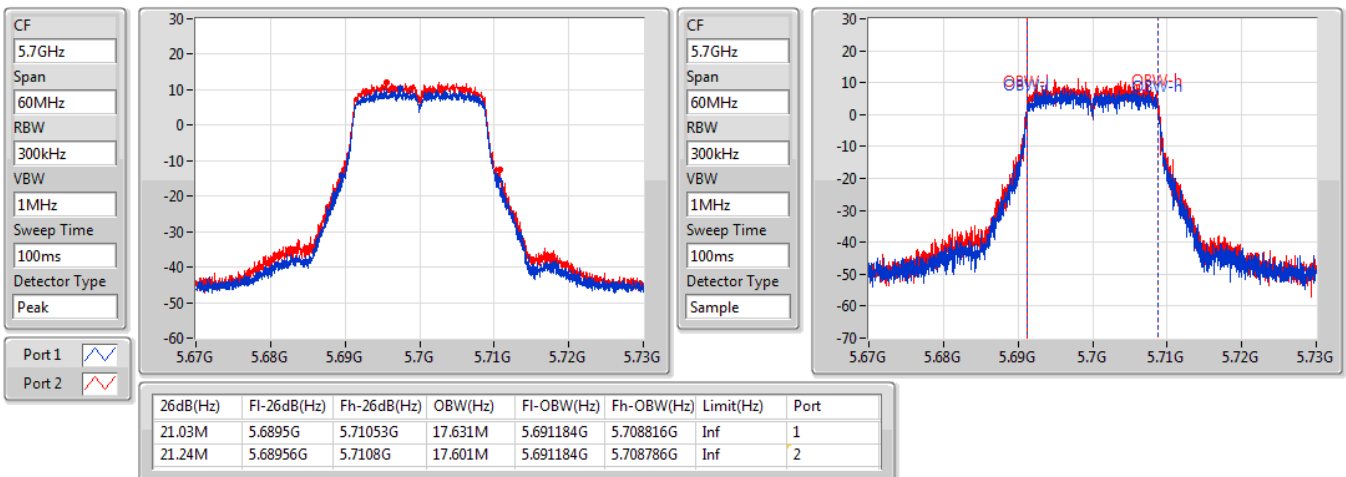


**802.11n HT20\_Nss1,(MCS0)\_2TX**
**EBW**
**5580MHz**

24/12/2020

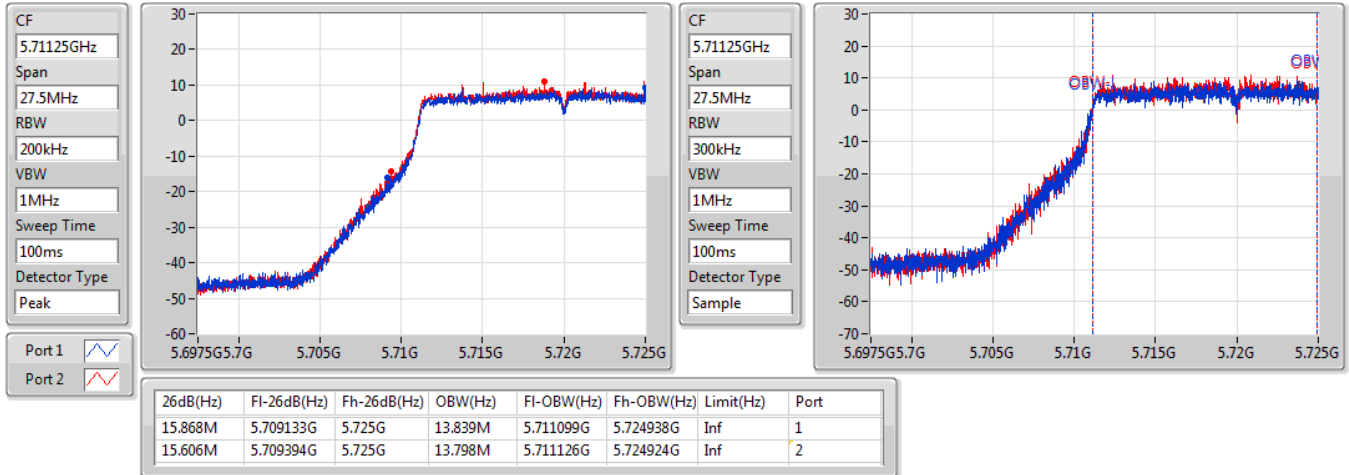

**802.11n HT20\_Nss1,(MCS0)\_2TX**
**EBW**
**5700MHz**

24/12/2020

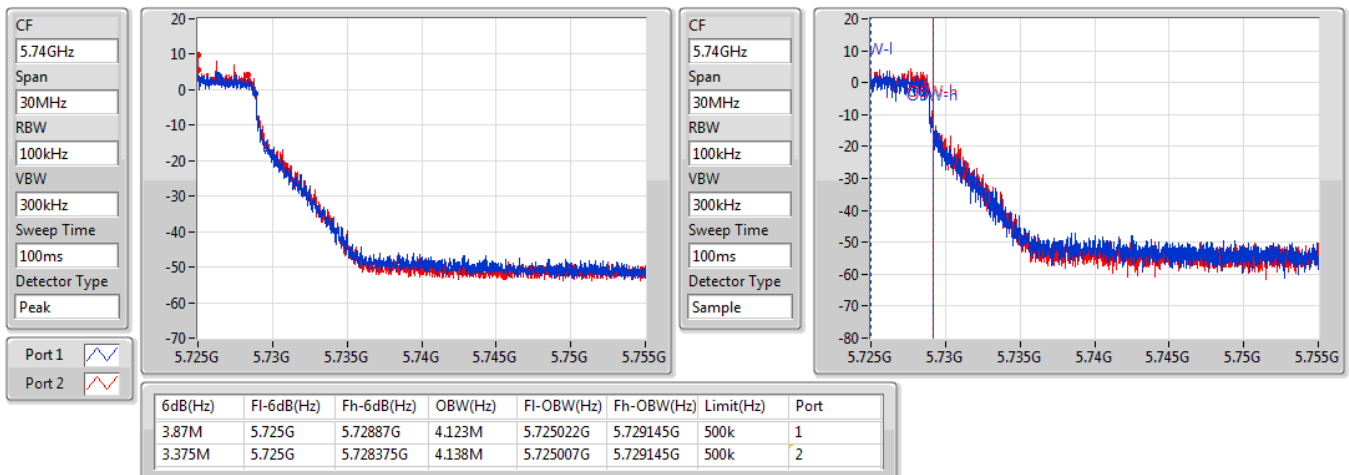


**802.11n HT20\_Nss1,(MCS0)\_2TX**
**EBW**
**5720MHz Straddle 5.47-5.725GHz**

24/12/2020

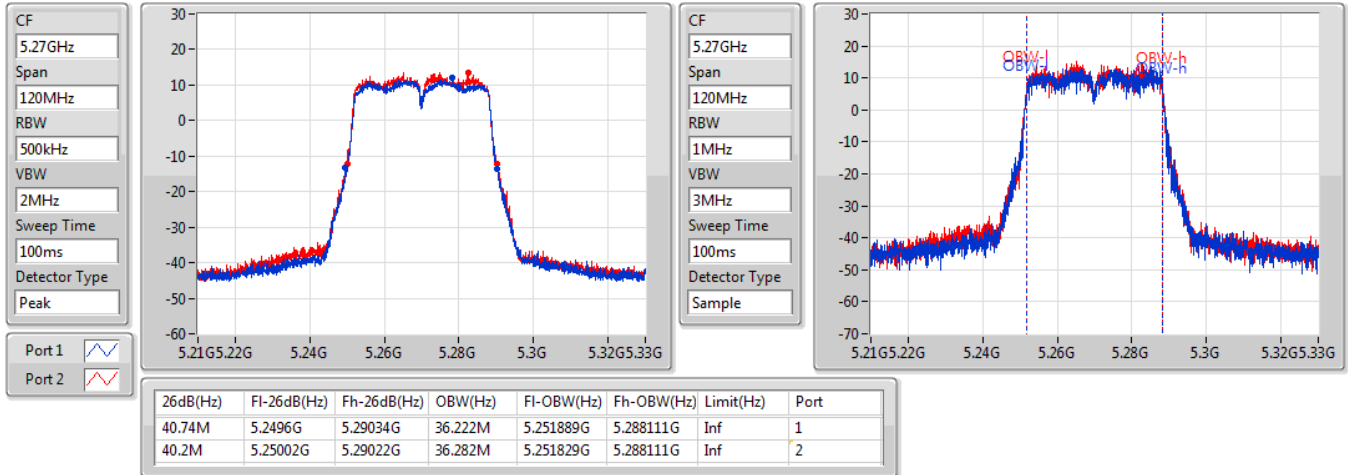

**802.11n HT20\_Nss1,(MCS0)\_2TX**
**EBW**
**5720MHz Straddle 5.725-5.85GHz**

24/12/2020

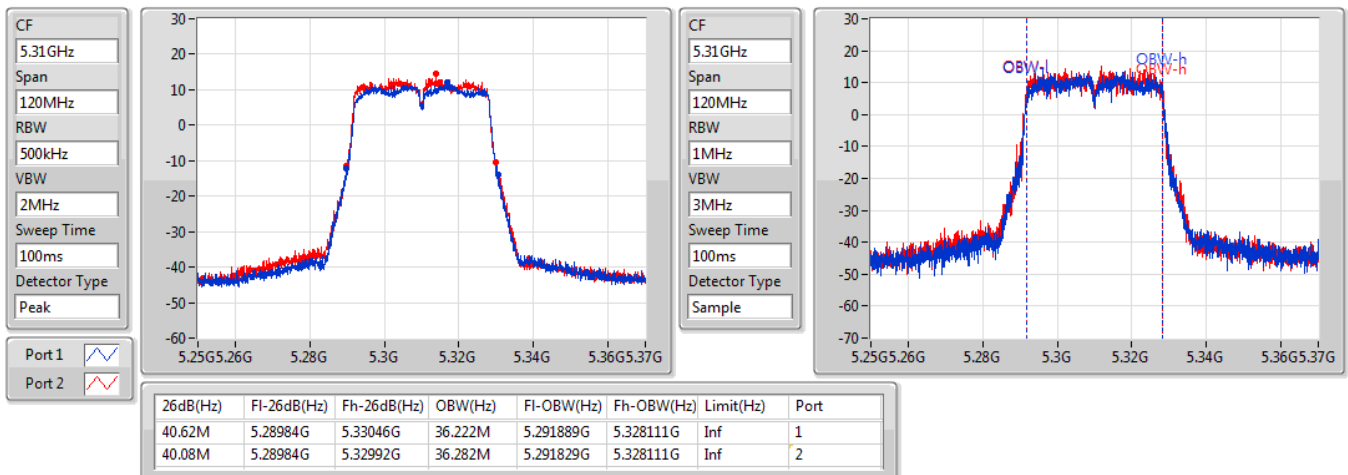


**802.11n HT40\_Nss1,(MCS0)\_2TX**
**EBW**
**5270MHz**

24/12/2020

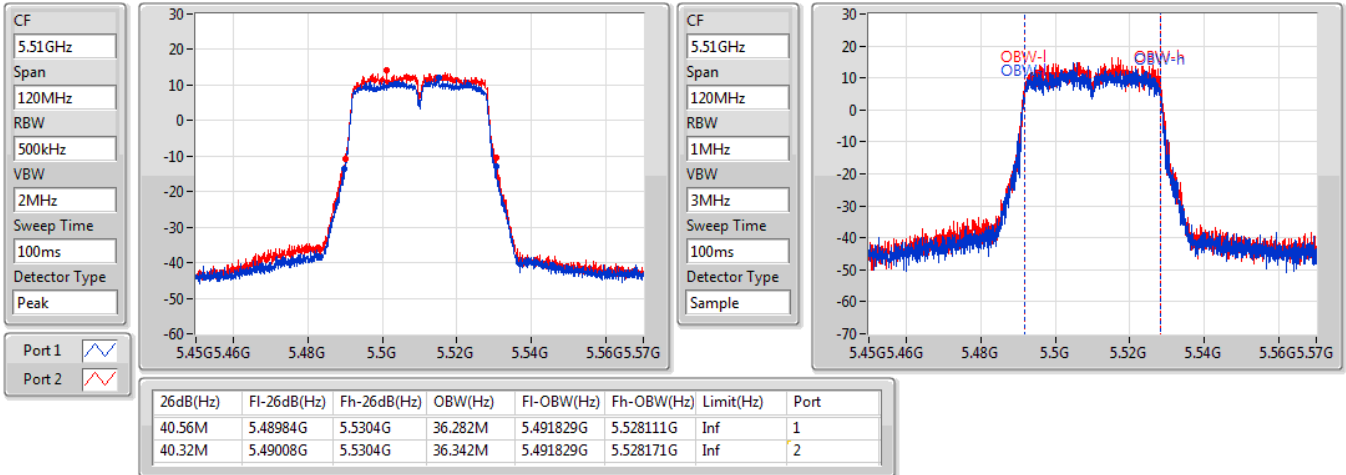

**802.11n HT40\_Nss1,(MCS0)\_2TX**
**EBW**
**5310MHz**

24/12/2020

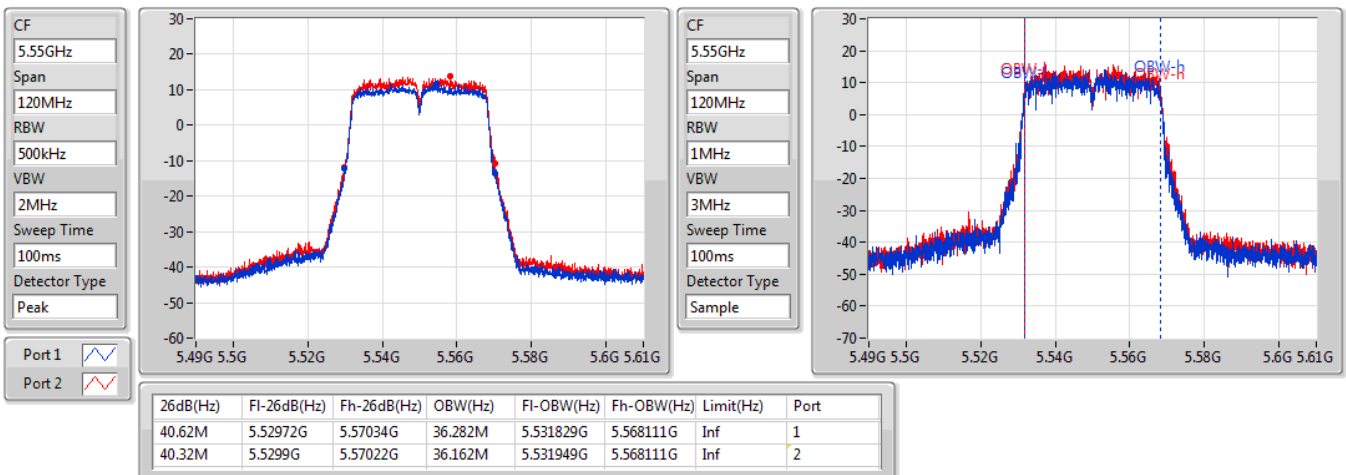


**802.11n HT40\_Nss1,(MCS0)\_2TX**
**EBW**
**5510MHz**

24/12/2020

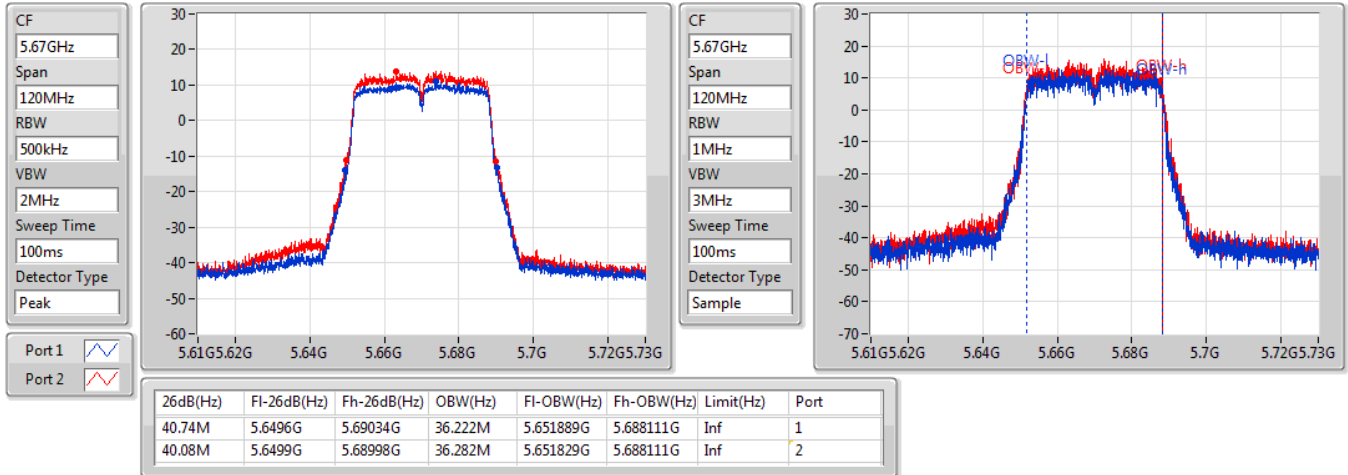

**802.11n HT40\_Nss1,(MCS0)\_2TX**
**EBW**
**5550MHz**

24/12/2020

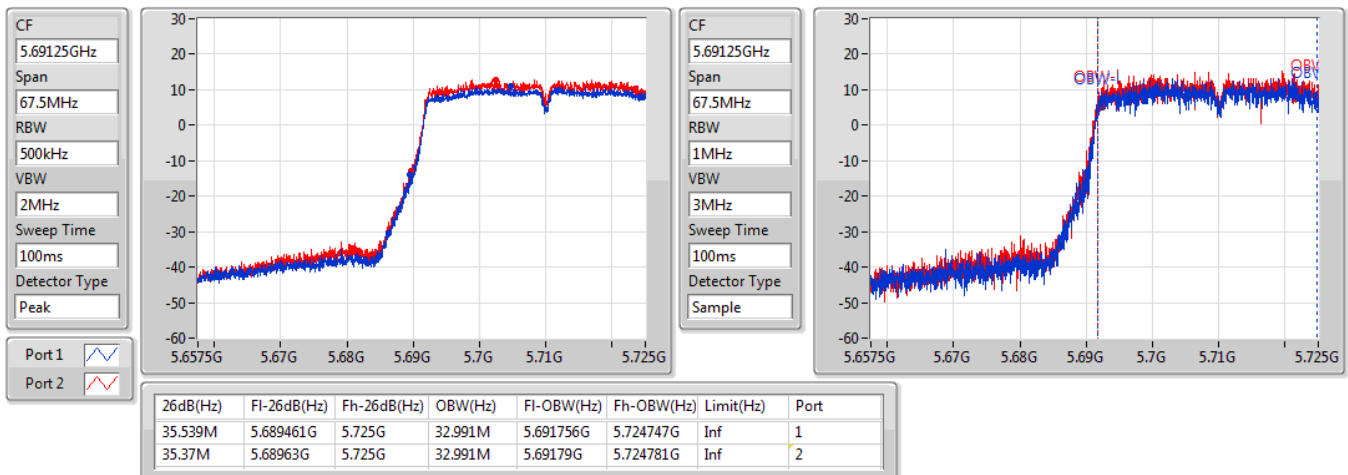


**802.11n HT40\_Nss1,(MCS0)\_2TX**
**EBW**
**5670MHz**

24/12/2020

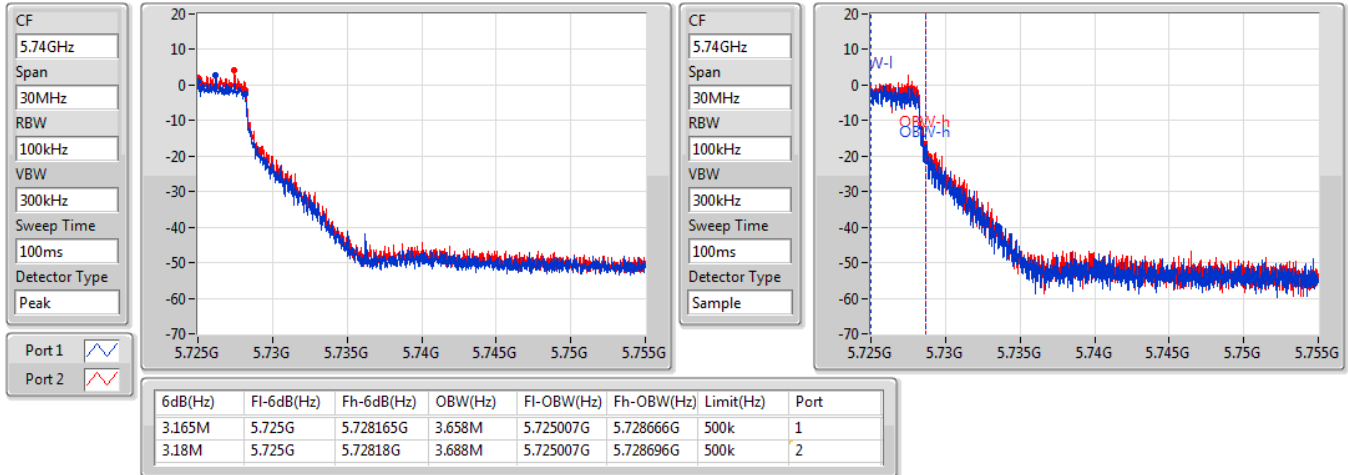

**802.11n HT40\_Nss1,(MCS0)\_2TX**
**EBW**
**5710MHz Straddle 5.47-5.725GHz**

24/12/2020

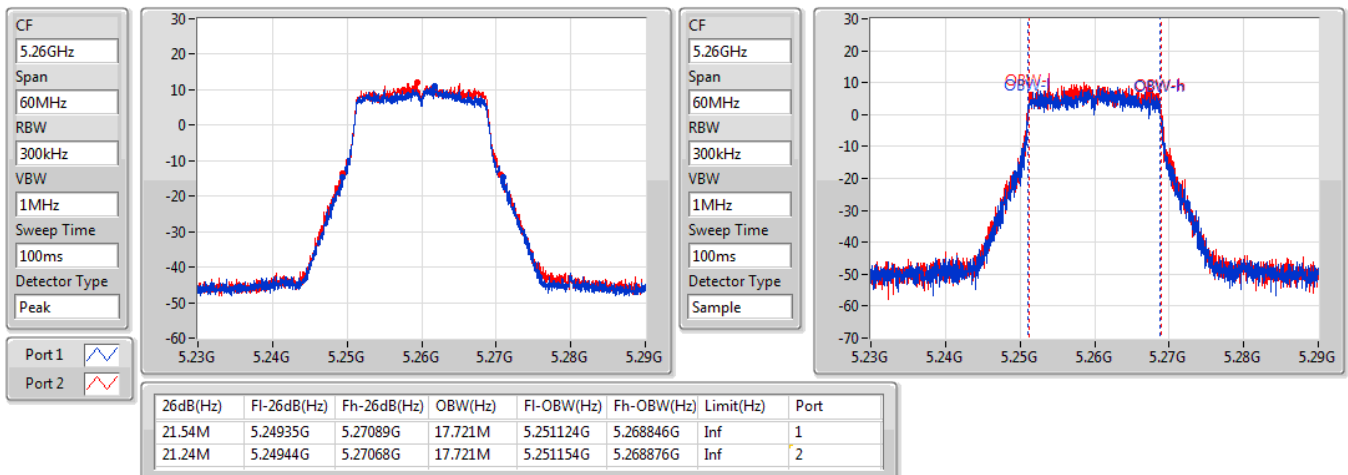


**802.11n HT40\_Nss1,(MCS0)\_2TX**
**EBW**
**5710MHz Straddle 5.725-5.85GHz**

24/12/2020

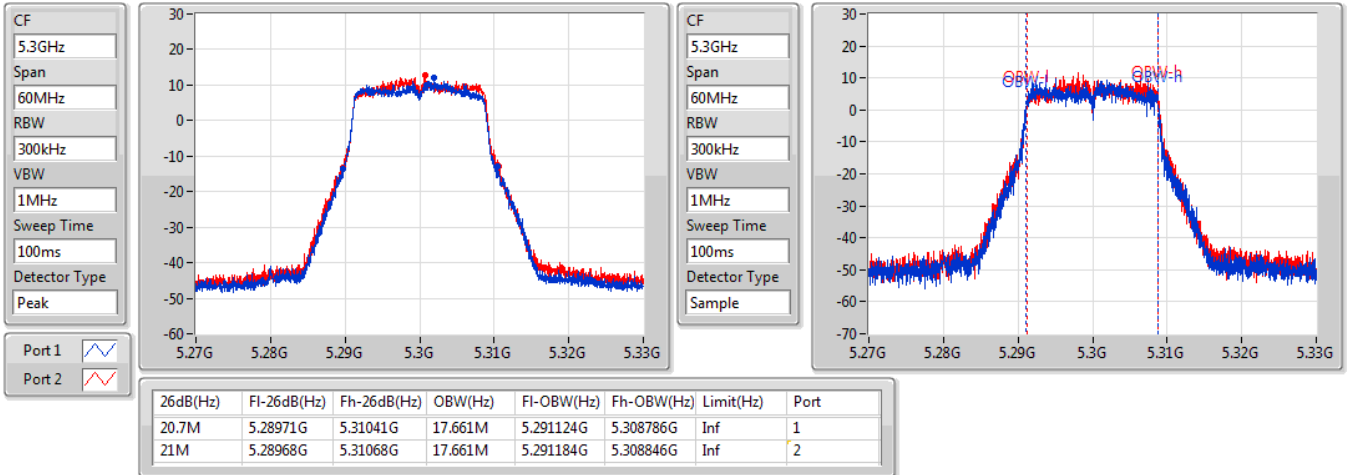

**802.11ac VHT20\_Nss1,(MCS0)\_2TX**
**EBW**
**5260MHz**

24/12/2020

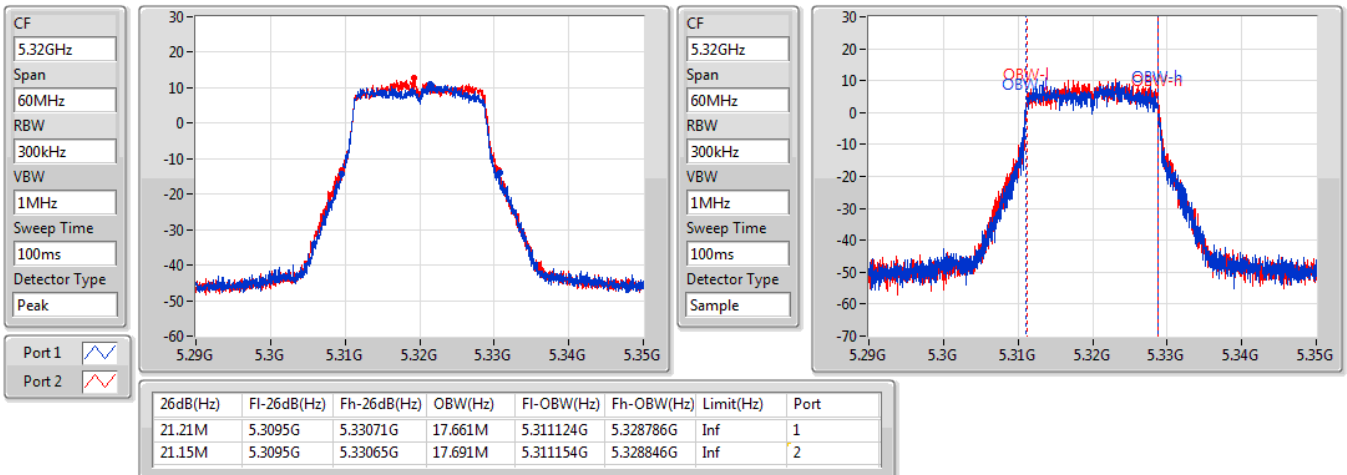


**802.11ac VHT20\_Nss1,(MCS0)\_2TX**
**EBW**
**5300MHz**

24/12/2020

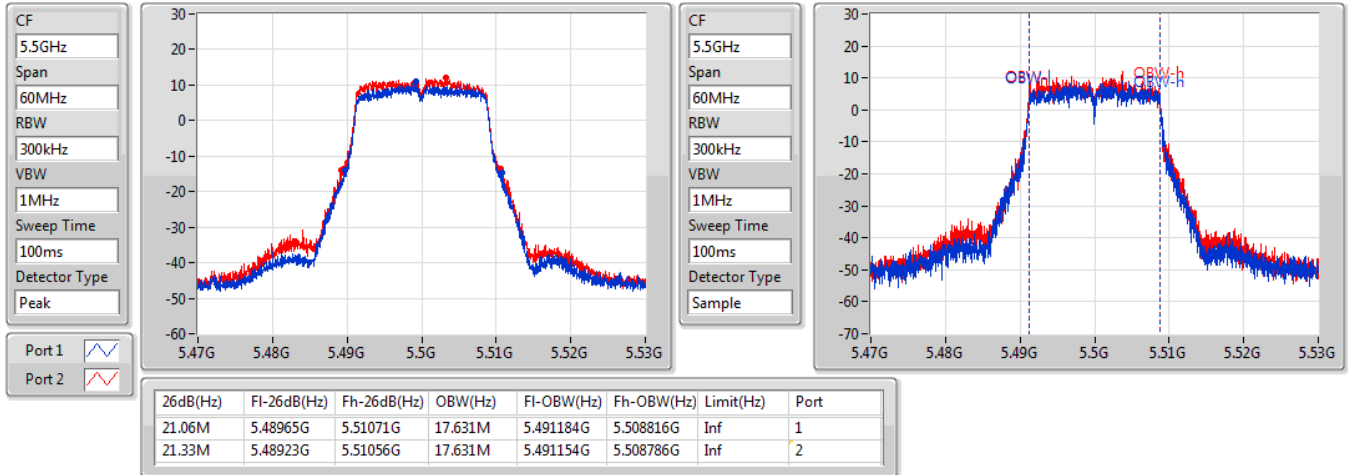

**802.11ac VHT20\_Nss1,(MCS0)\_2TX**
**EBW**
**5320MHz**

24/12/2020

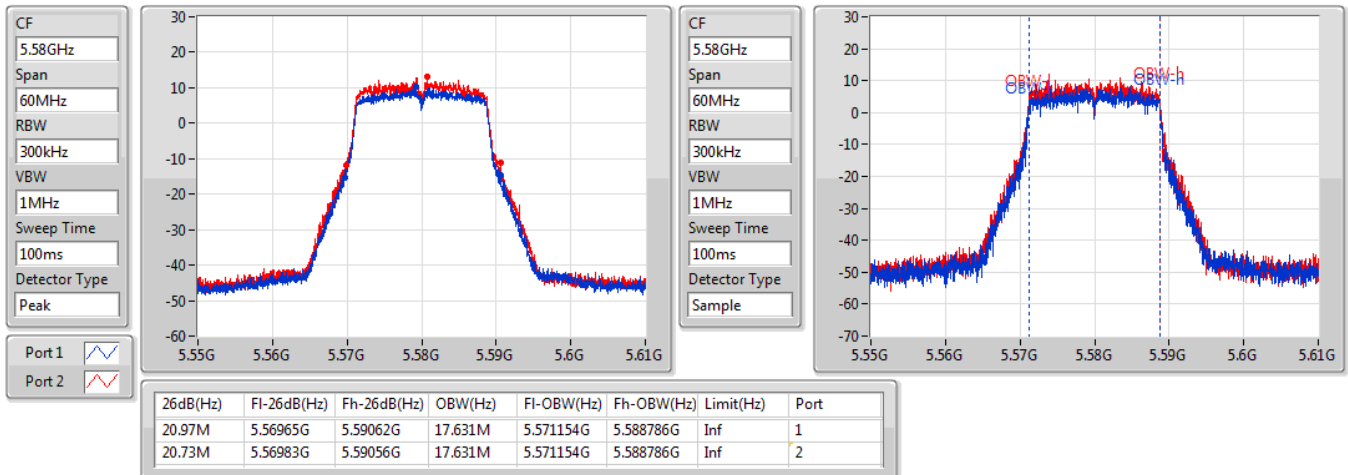


**802.11ac VHT20\_Nss1,(MCS0)\_2TX**
**EBW**
**5500MHz**

24/12/2020


**802.11ac VHT20\_Nss1,(MCS0)\_2TX**
**EBW**
**5580MHz**

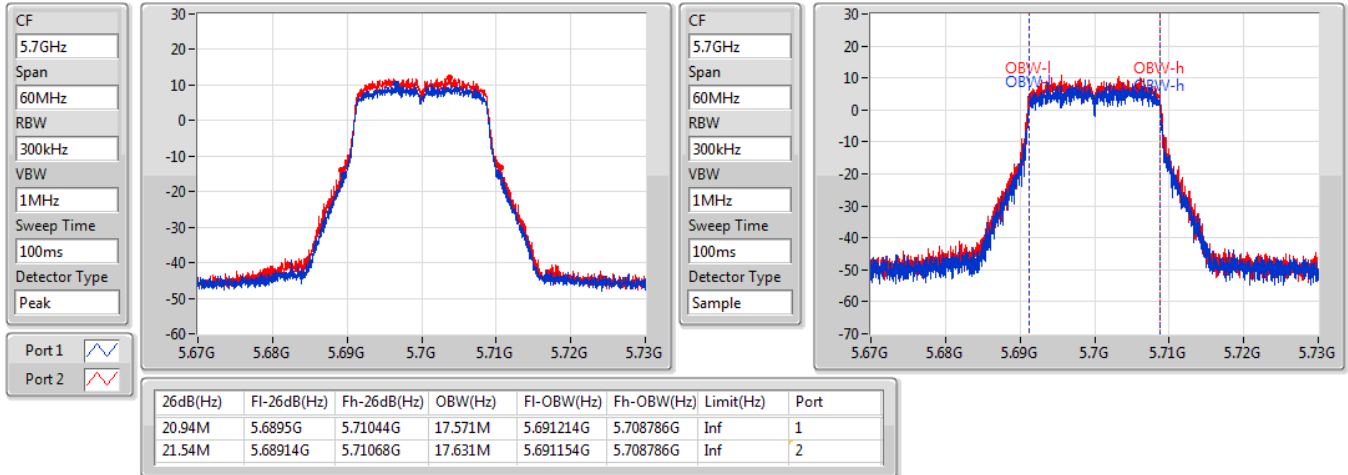
24/12/2020



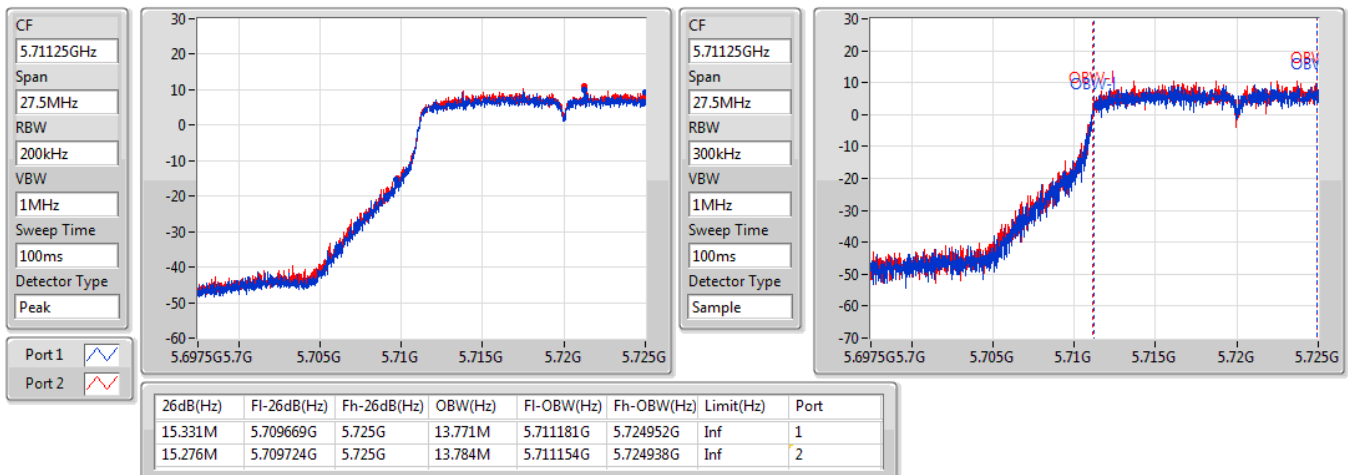


**802.11ac VHT20\_Nss1,(MCS0)\_2TX**
**EBW**
**5700MHz**

24/12/2020

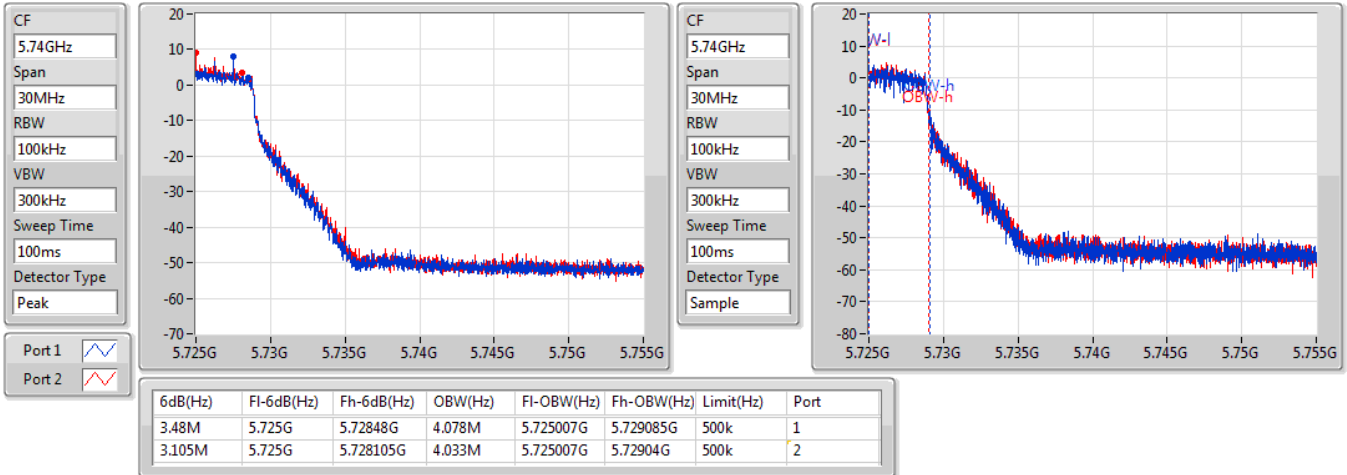

**802.11ac VHT20\_Nss1,(MCS0)\_2TX**
**EBW**
**5720MHz Straddle 5.47-5.725GHz**

24/12/2020

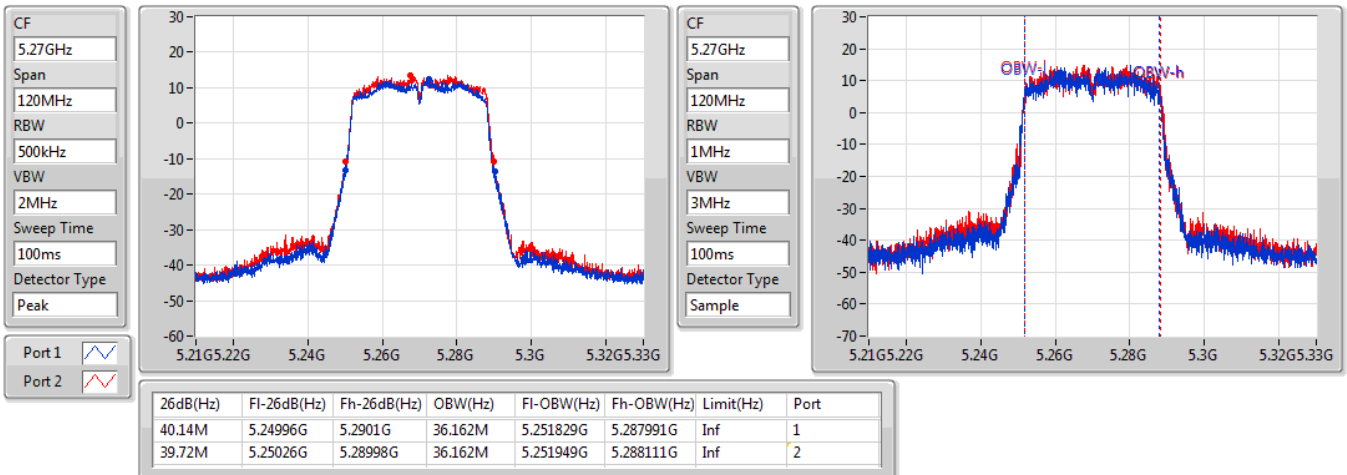


**802.11ac VHT20\_Nss1,(MCS0)\_2TX**
**EBW**
**5720MHz Straddle 5.725-5.85GHz**

24/12/2020

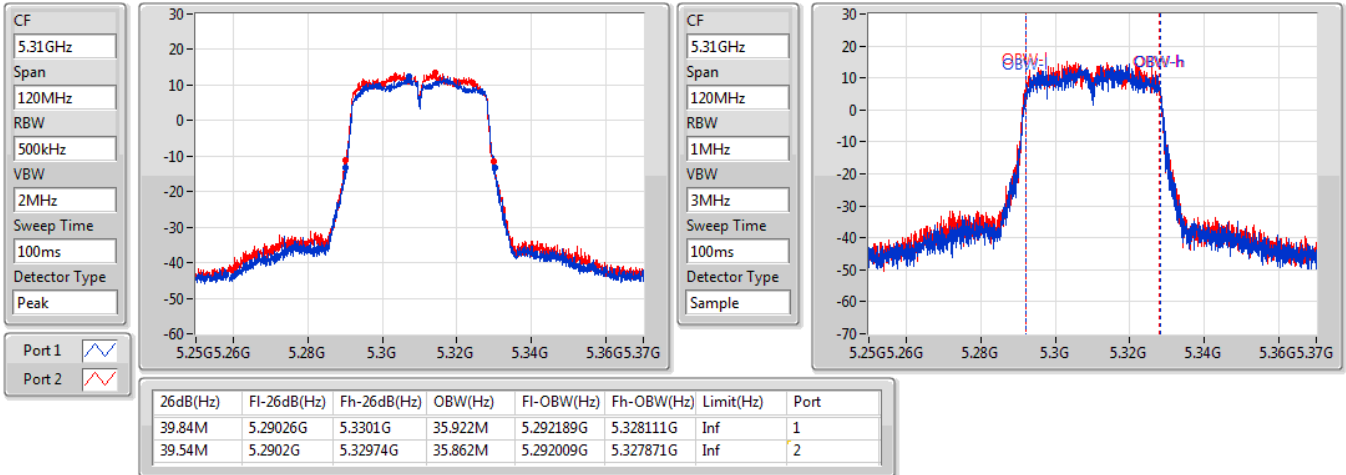

**802.11ac VHT40\_Nss1,(MCS0)\_2TX**
**EBW**
**5270MHz**

24/12/2020

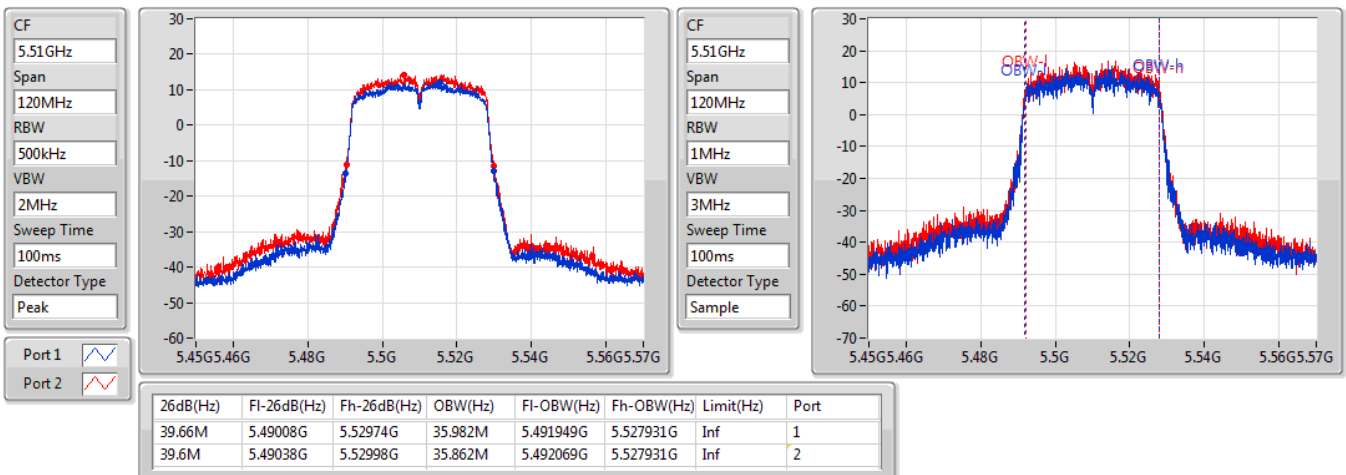


**802.11ac VHT40\_Nss1,(MCS0)\_2TX**
**EBW**
**5310MHz**

24/12/2020

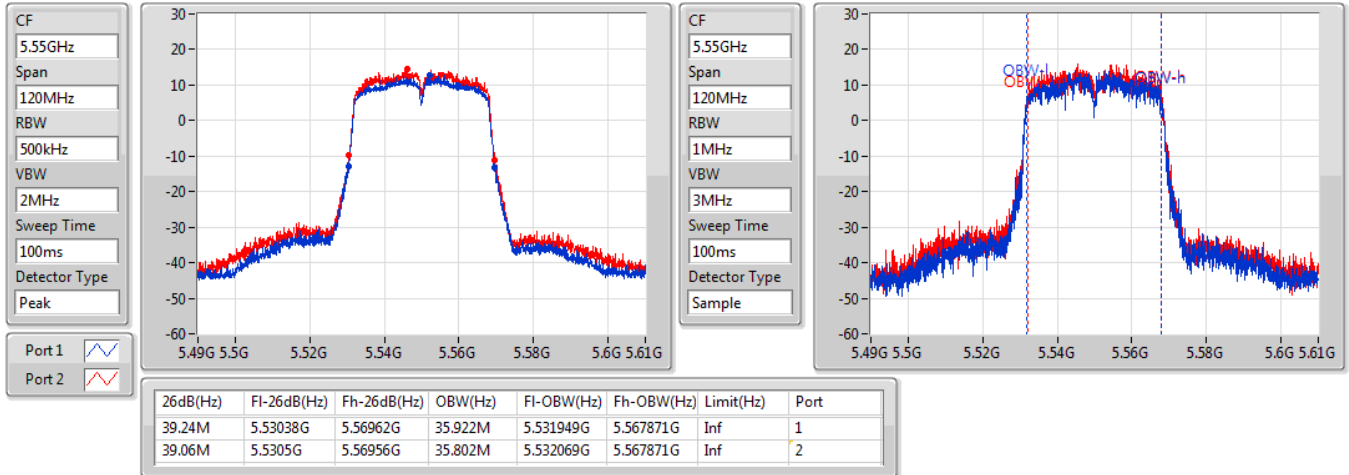

**802.11ac VHT40\_Nss1,(MCS0)\_2TX**
**EBW**
**5510MHz**

24/12/2020

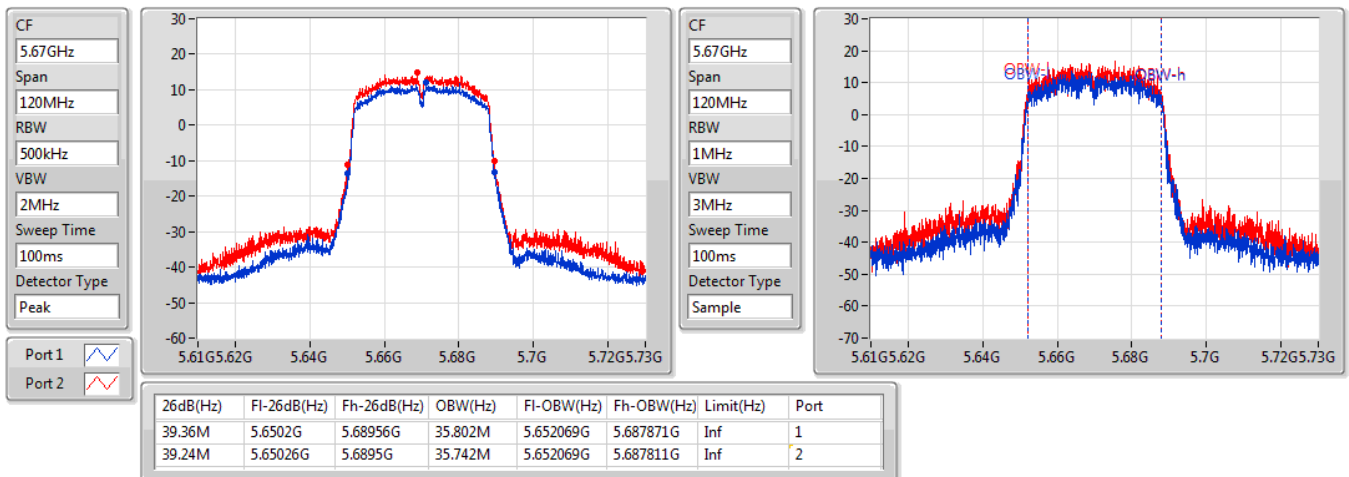


**802.11ac VHT40\_Nss1,(MCS0)\_2TX**
**EBW**
**5550MHz**

24/12/2020

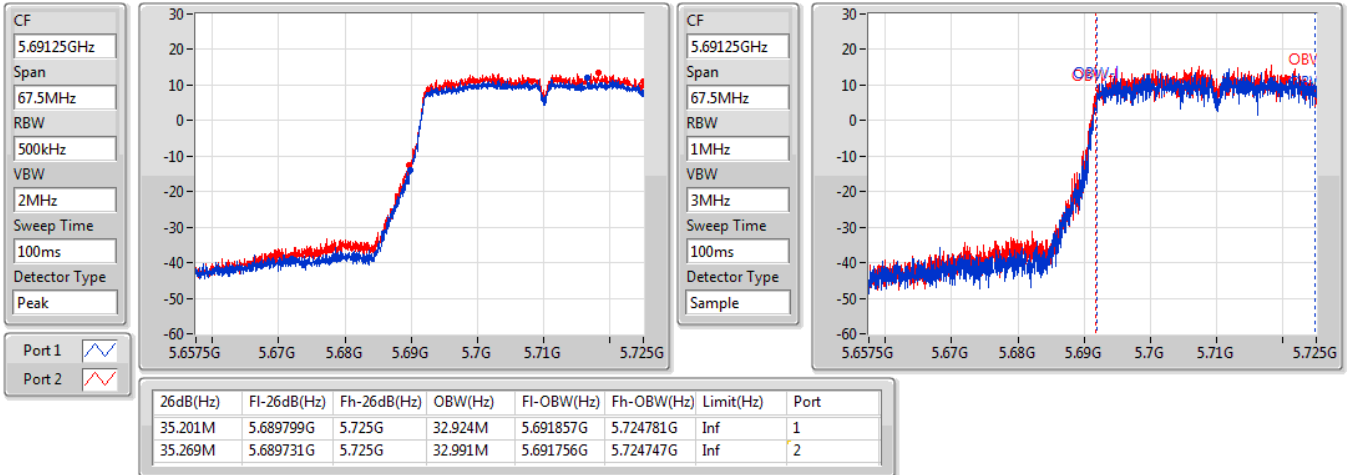

**802.11ac VHT40\_Nss1,(MCS0)\_2TX**
**EBW**
**5670MHz**

24/12/2020

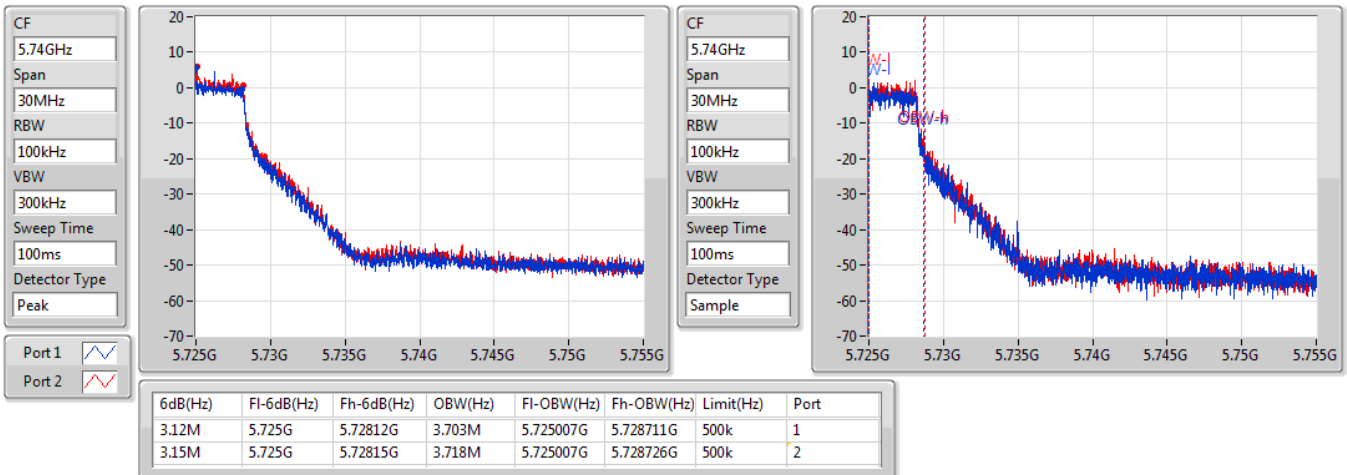


**802.11ac VHT40\_Nss1,(MCS0)\_2TX**
**EBW**
**5710MHz Straddle 5.47-5.725GHz**

24/12/2020

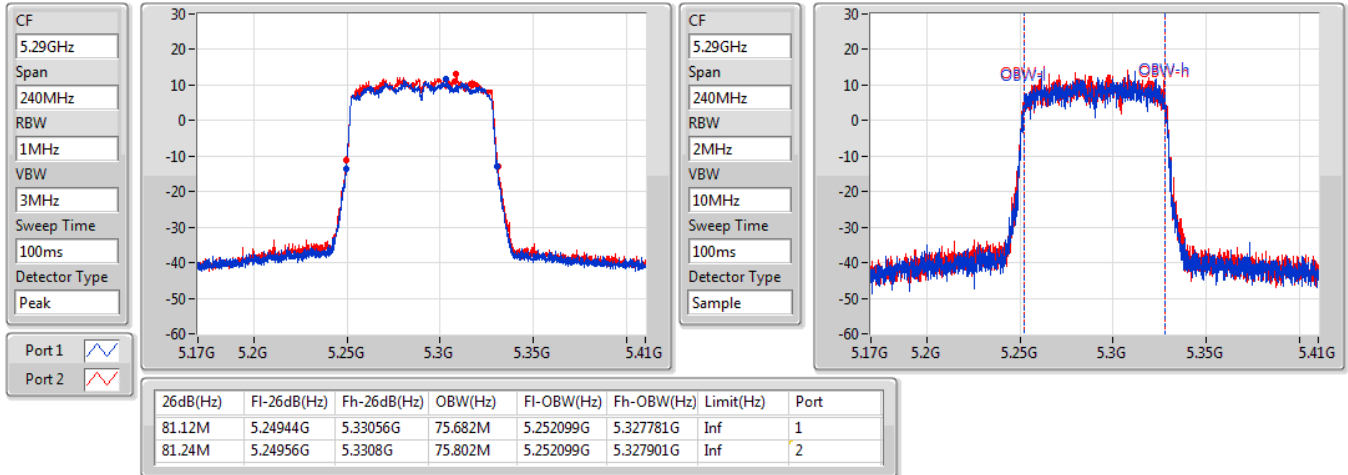

**802.11ac VHT40\_Nss1,(MCS0)\_2TX**
**EBW**
**5710MHz Straddle 5.725-5.85GHz**

24/12/2020

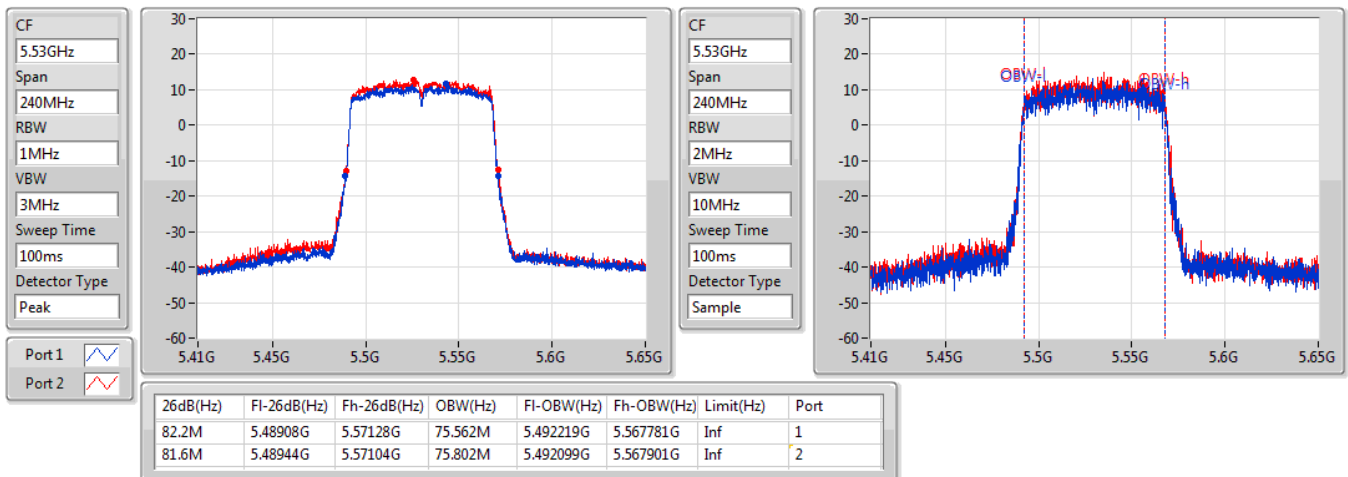


**802.11ac VHT80\_Nss1,(MCS0)\_2TX**
**EBW**
**5290MHz**

24/12/2020

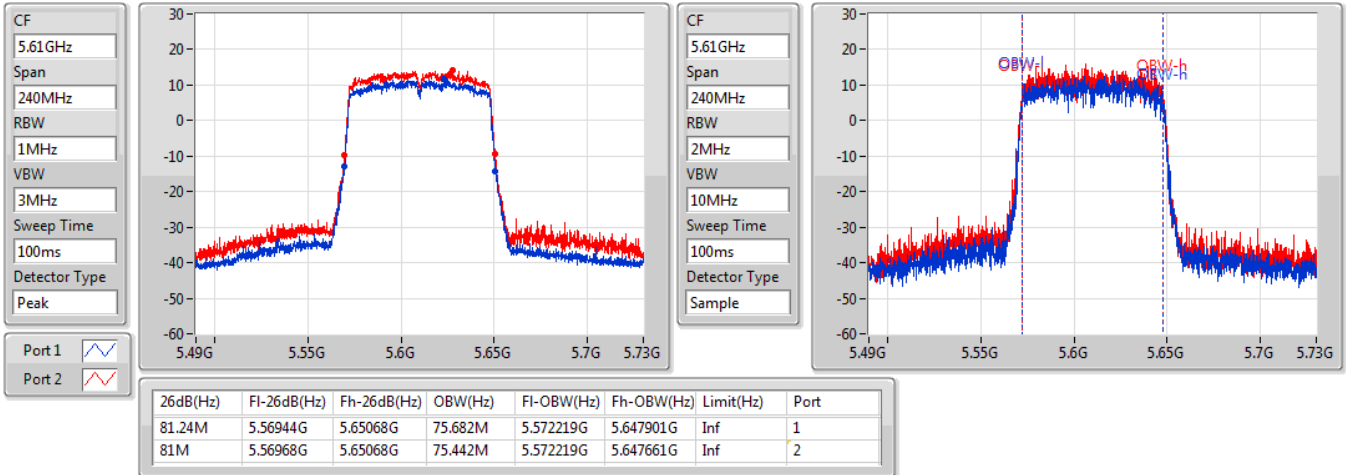

**802.11ac VHT80\_Nss1,(MCS0)\_2TX**
**EBW**
**5530MHz**

24/12/2020

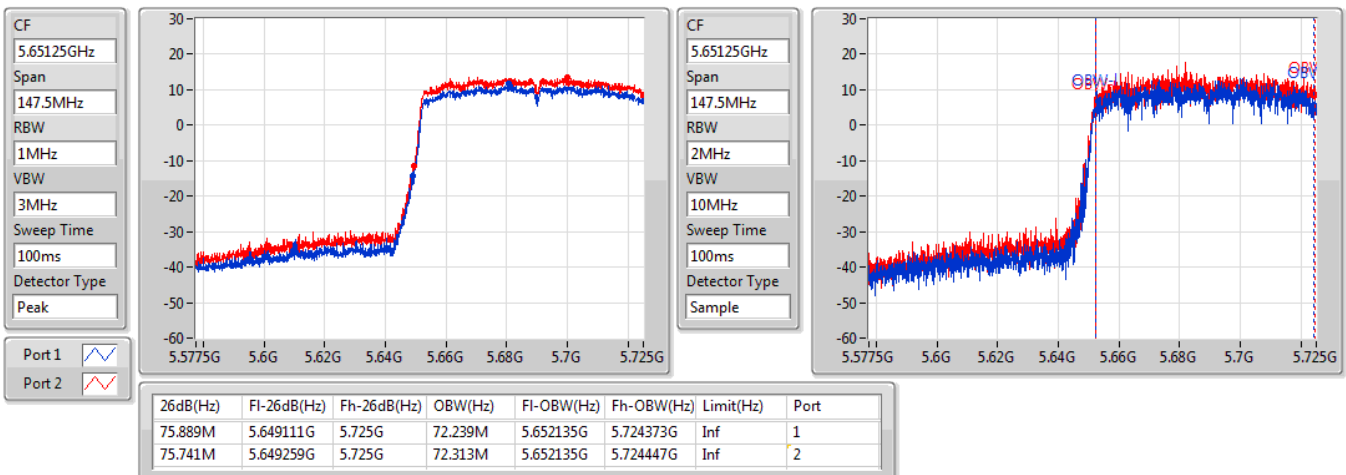


**802.11ac VHT80\_Nss1,(MCS0)\_2TX**
**EBW**
**5610MHz**

24/12/2020

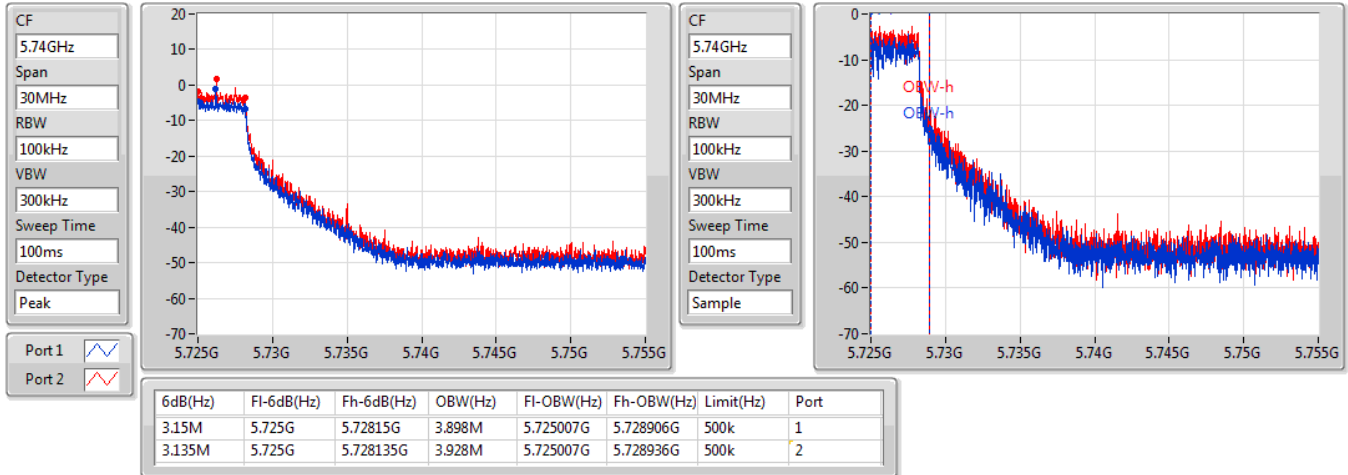

**802.11ac VHT80\_Nss1,(MCS0)\_2TX**
**EBW**
**5690MHz Straddle 5.47-5.725GHz**

24/12/2020

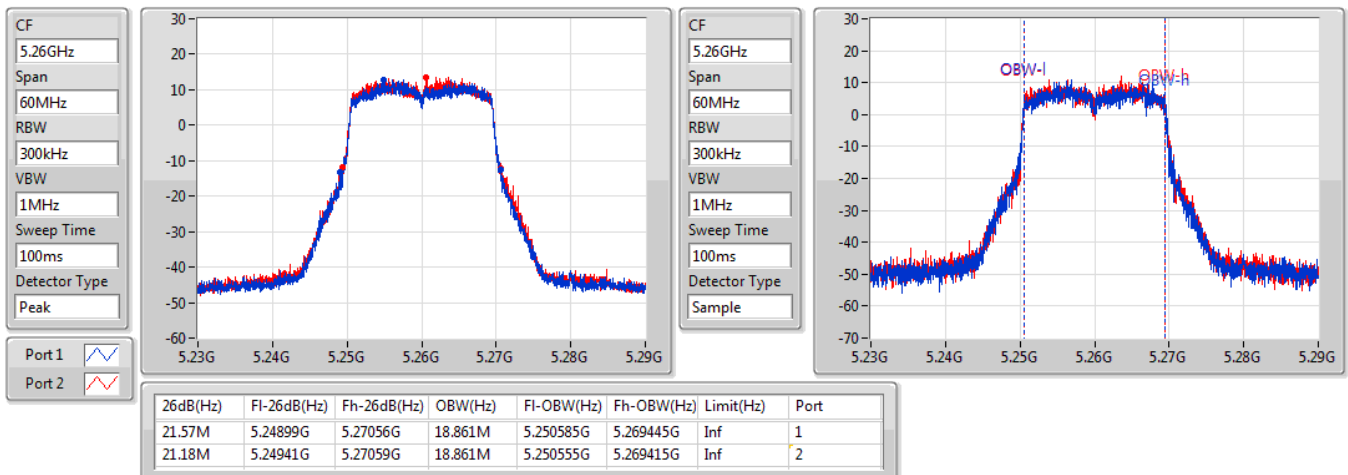


**802.11ac VHT80\_Nss1,(MCS0)\_2TX**
**EBW**
**5690MHz Straddle 5.725-5.85GHz**

24/12/2020


**802.11ax HEW20\_Nss1,(MCS0)\_2TX**
**EBW**
**5260MHz**

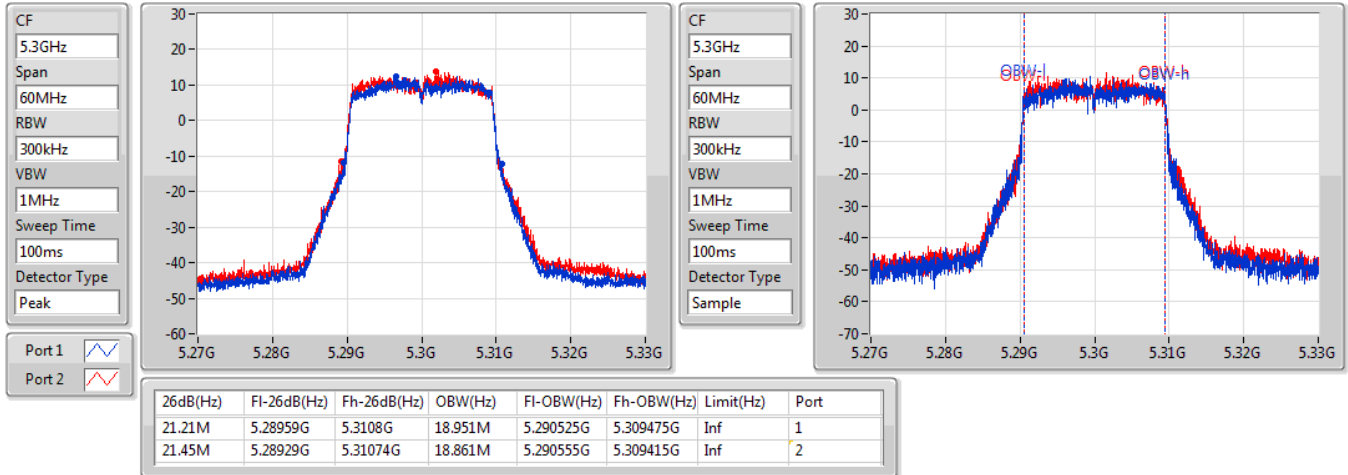
24/12/2020



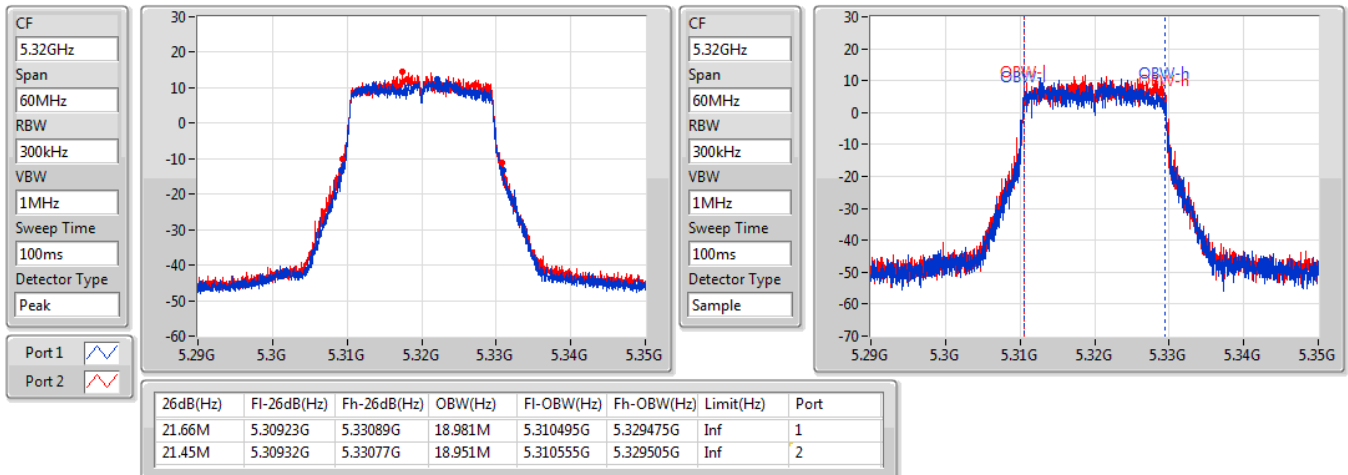


**802.11ax HEW20\_Nss1,(MCS0)\_2TX**
**EBW**
**5300MHz**

24/12/2020

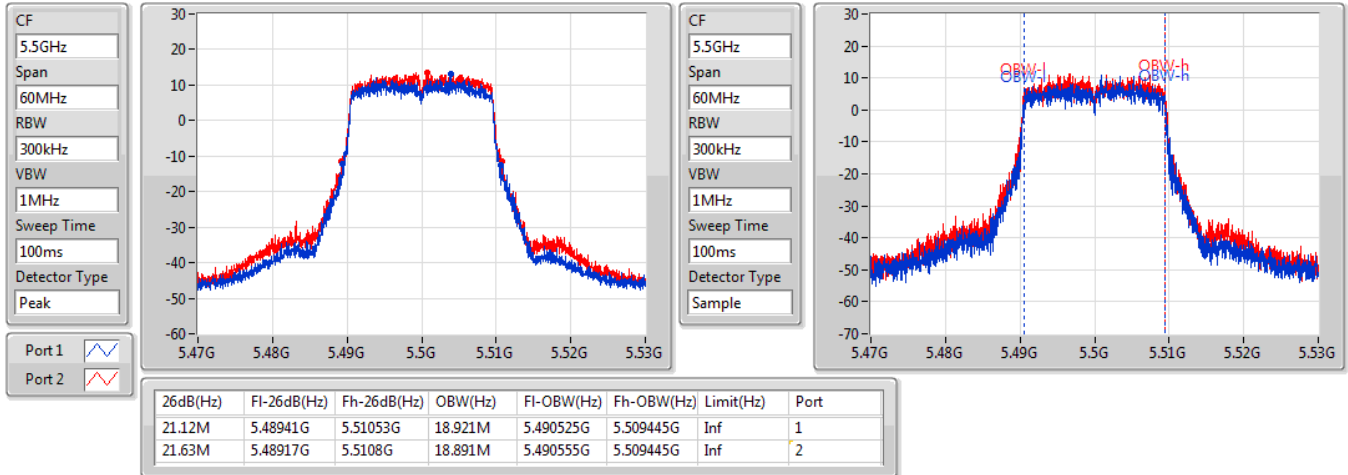

**802.11ax HEW20\_Nss1,(MCS0)\_2TX**
**EBW**
**5320MHz**

24/12/2020

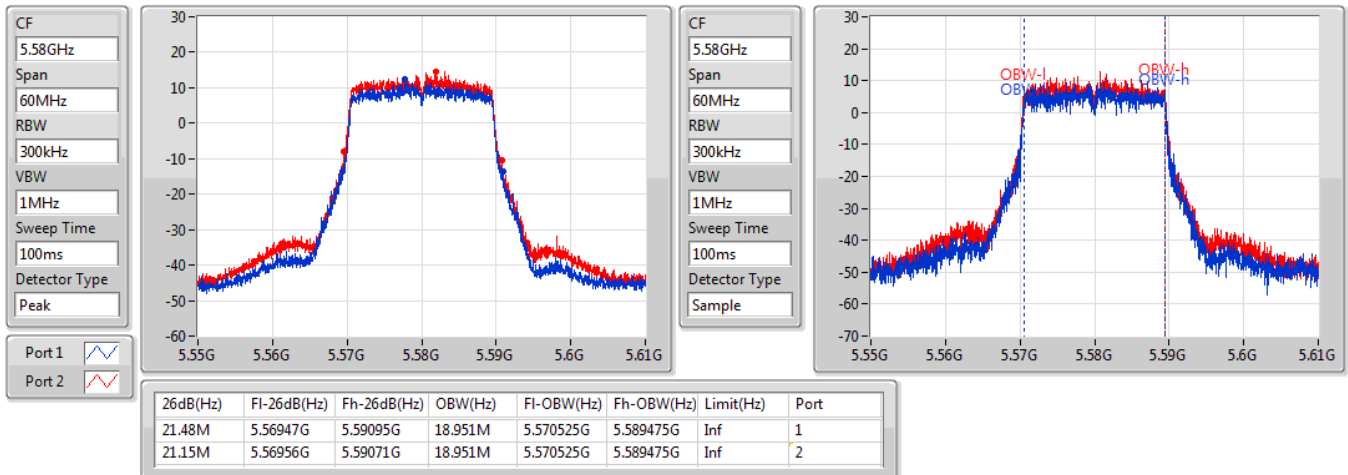


**802.11ax HEW20\_Nss1,(MCS0)\_2TX**
**EBW**
**5500MHz**

24/12/2020

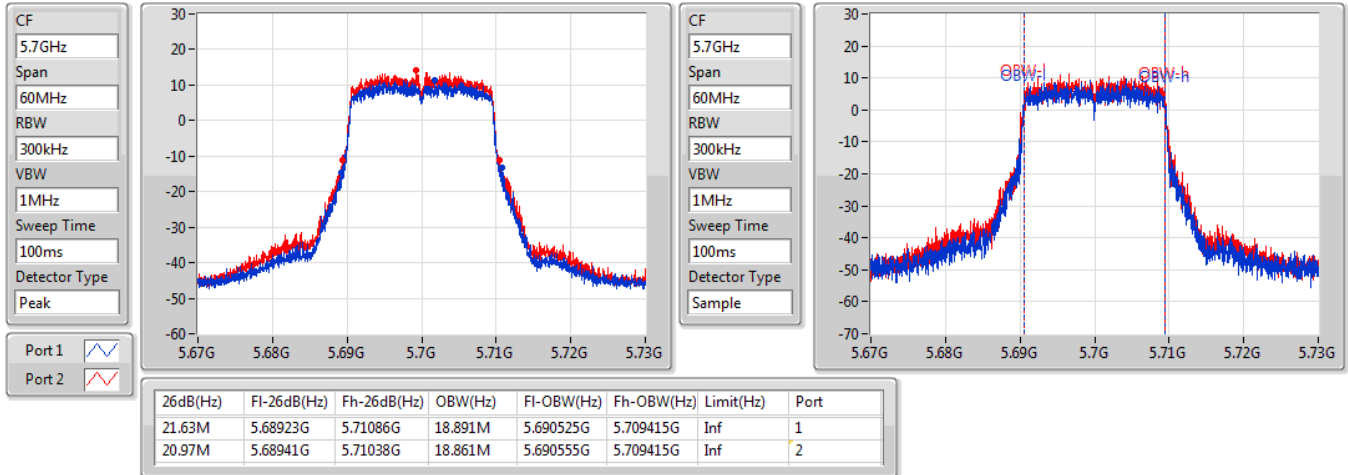

**802.11ax HEW20\_Nss1,(MCS0)\_2TX**
**EBW**
**5580MHz**

24/12/2020

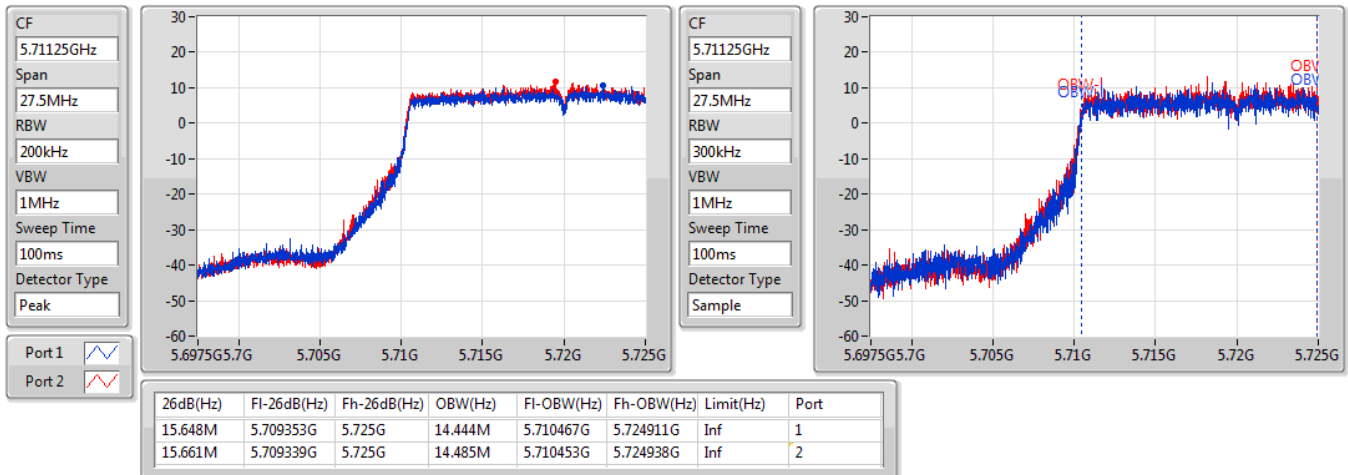


**802.11ax HEW20\_Nss1,(MCS0)\_2TX**
**EBW**
**5700MHz**

24/12/2020

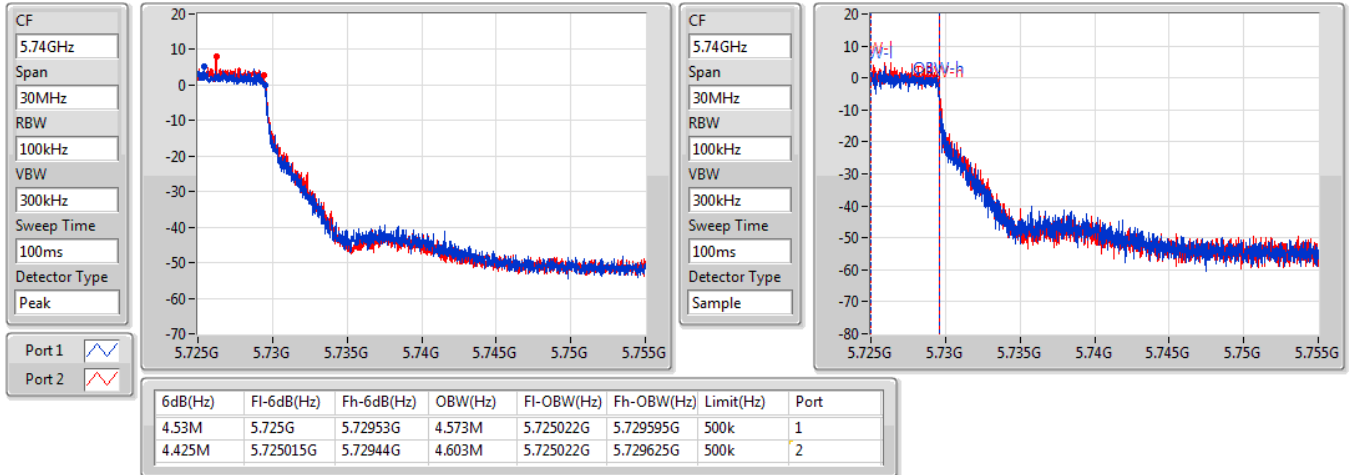

**802.11ax HEW20\_Nss1,(MCS0)\_2TX**
**EBW**
**5720MHz Straddle 5.47-5.725GHz**

24/12/2020

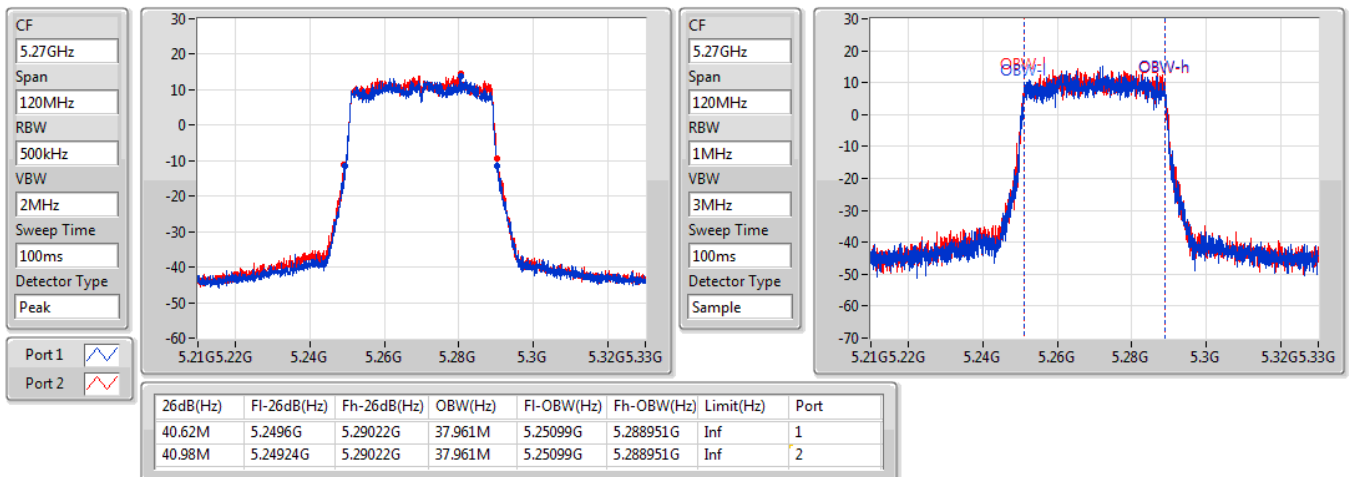


**802.11ax HEW20\_Nss1,(MCS0)\_2TX**
**EBW**
**5720MHz Straddle 5.725-5.85GHz**

24/12/2020

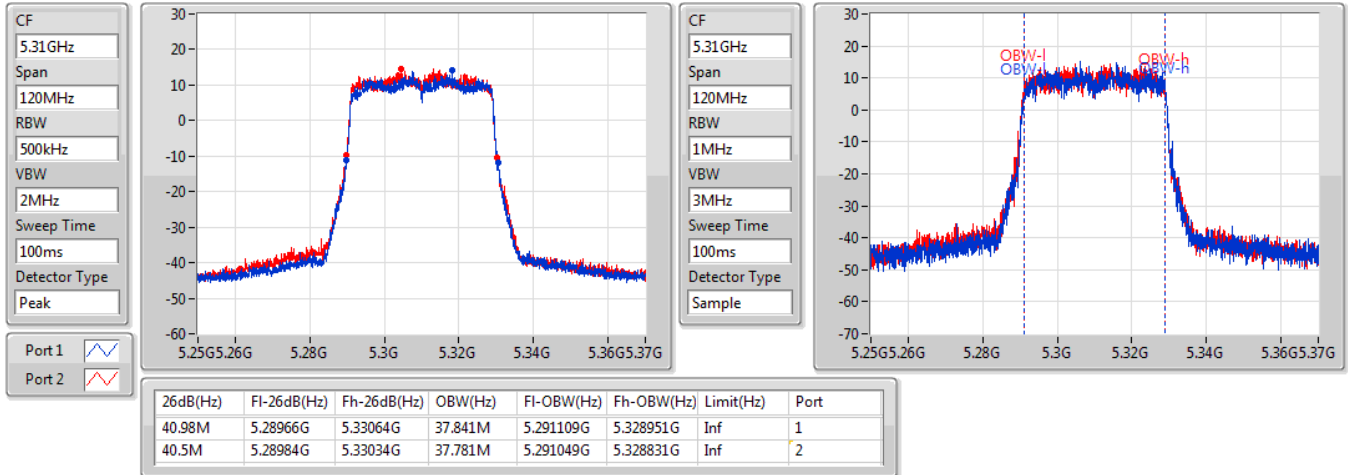

**802.11ax HEW40\_Nss1,(MCS0)\_2TX**
**EBW**
**5270MHz**

24/12/2020

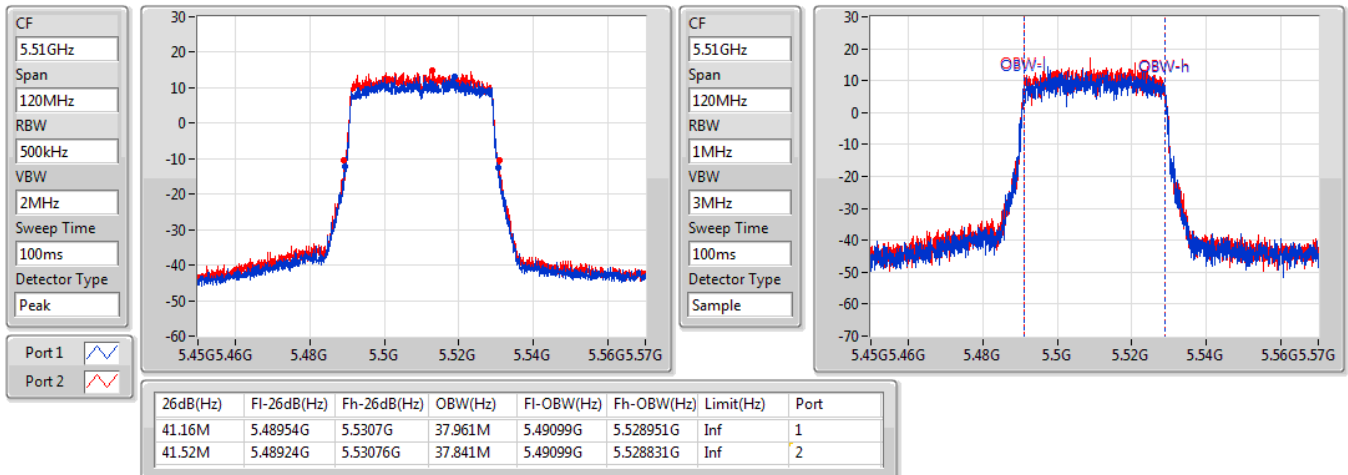


**802.11ax HEW40\_Nss1,(MCS0)\_2TX**
**EBW**
**5310MHz**

24/12/2020

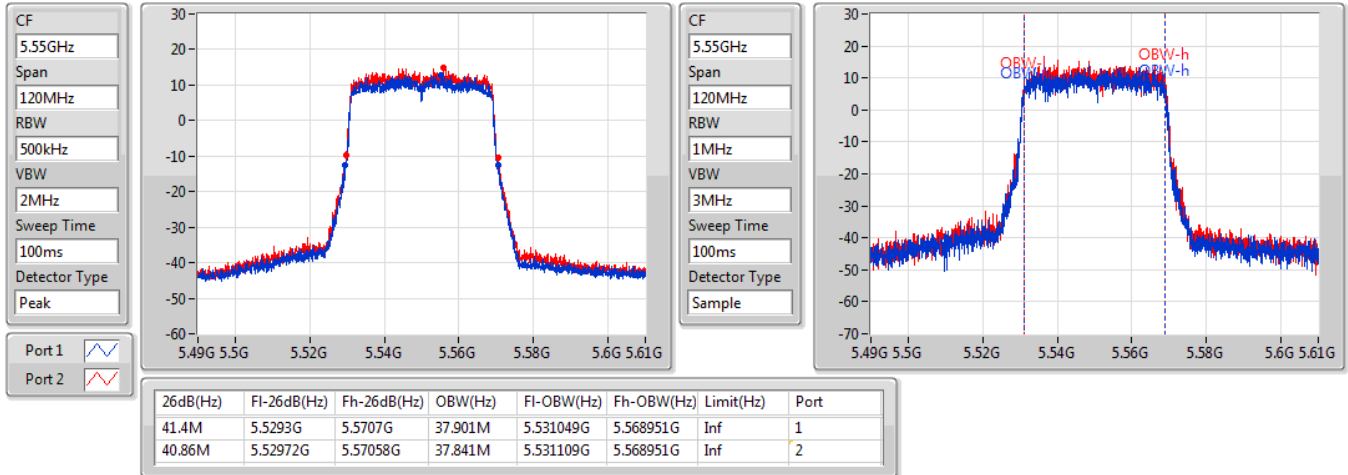

**802.11ax HEW40\_Nss1,(MCS0)\_2TX**
**EBW**
**5510MHz**

24/12/2020

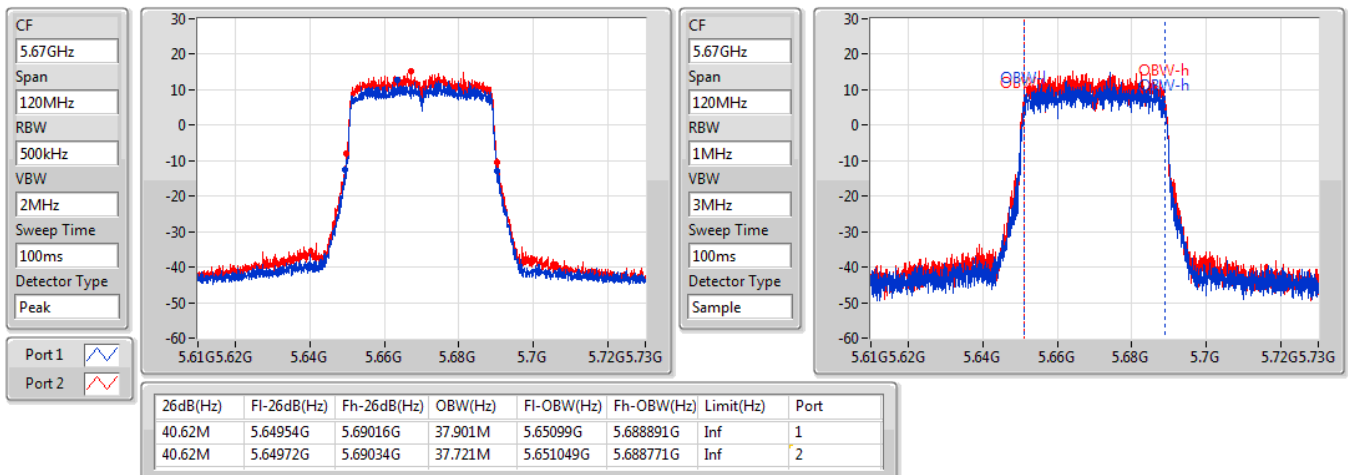


**802.11ax HEW40\_Nss1,(MCS0)\_2TX**
**EBW**
**5550MHz**

24/12/2020

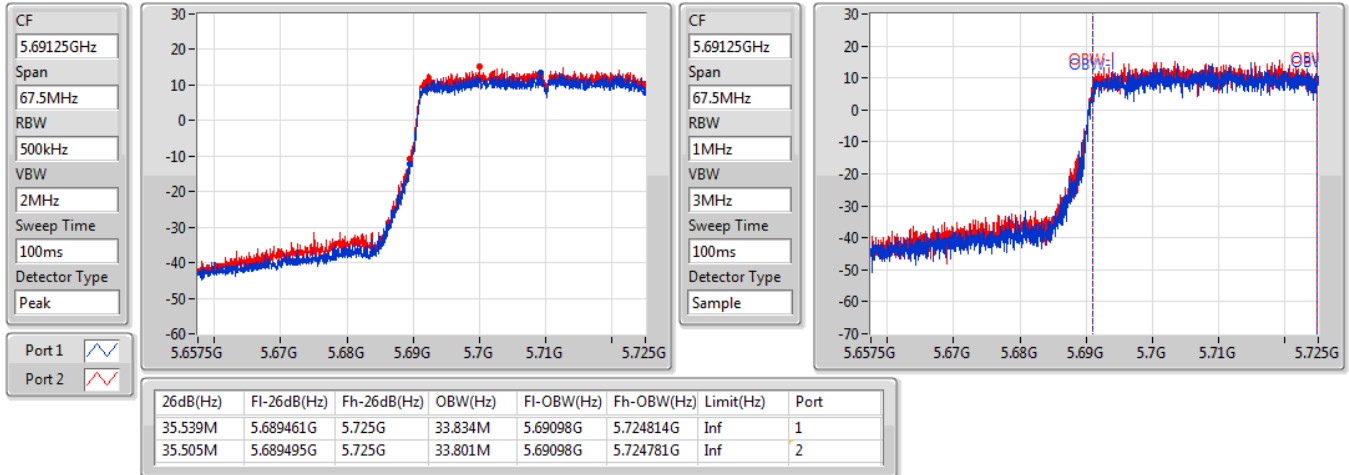

**802.11ax HEW40\_Nss1,(MCS0)\_2TX**
**EBW**
**5670MHz**

24/12/2020

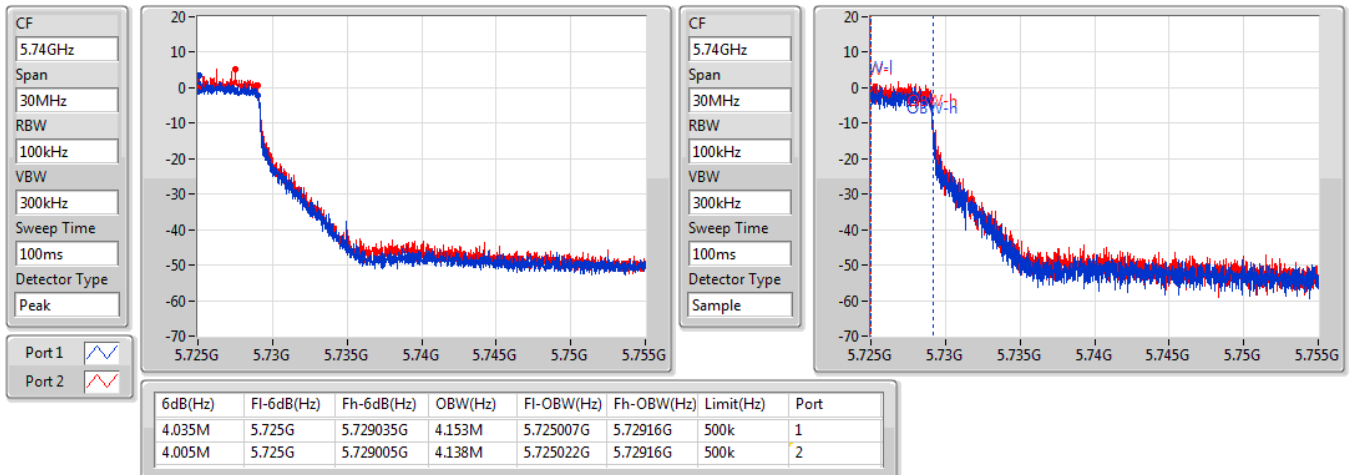


**802.11ax HEW40\_Nss1,(MCS0)\_2TX**
**EBW**
**5710MHz Straddle 5.47-5.725GHz**

24/12/2020

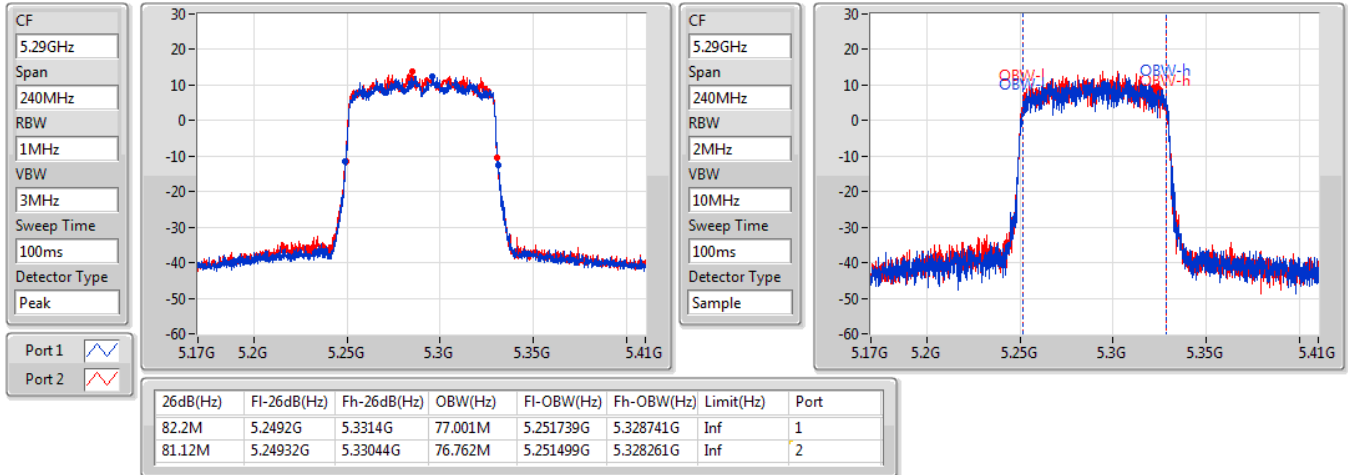

**802.11ax HEW40\_Nss1,(MCS0)\_2TX**
**EBW**
**5710MHz Straddle 5.725-5.85GHz**

24/12/2020

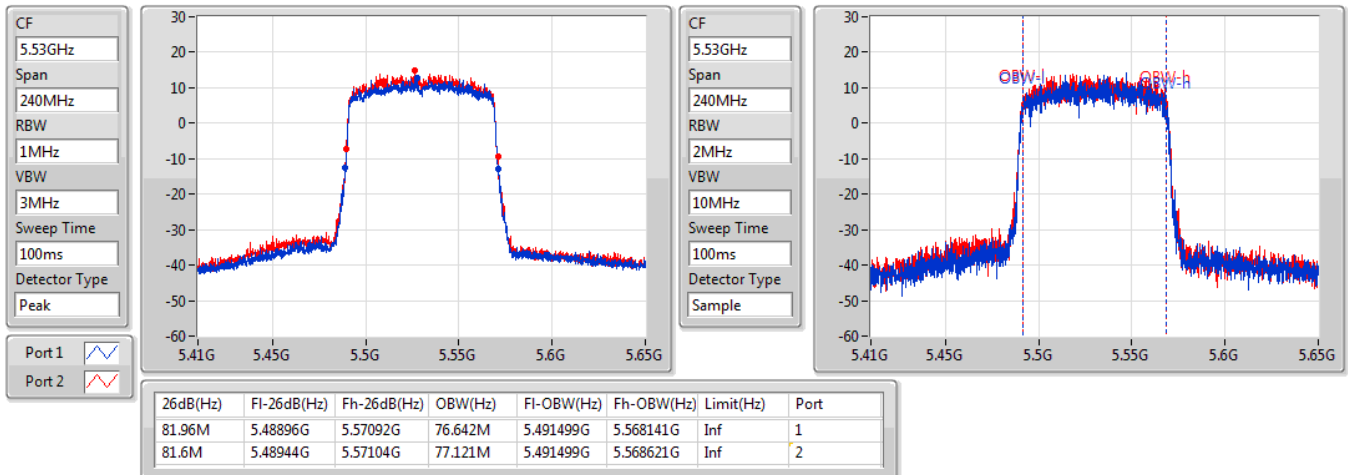


**802.11ax HEW80\_Nss1,(MCS0)\_2TX**
**EBW**
**5290MHz**

24/12/2020


**802.11ax HEW80\_Nss1,(MCS0)\_2TX**
**EBW**
**5530MHz**

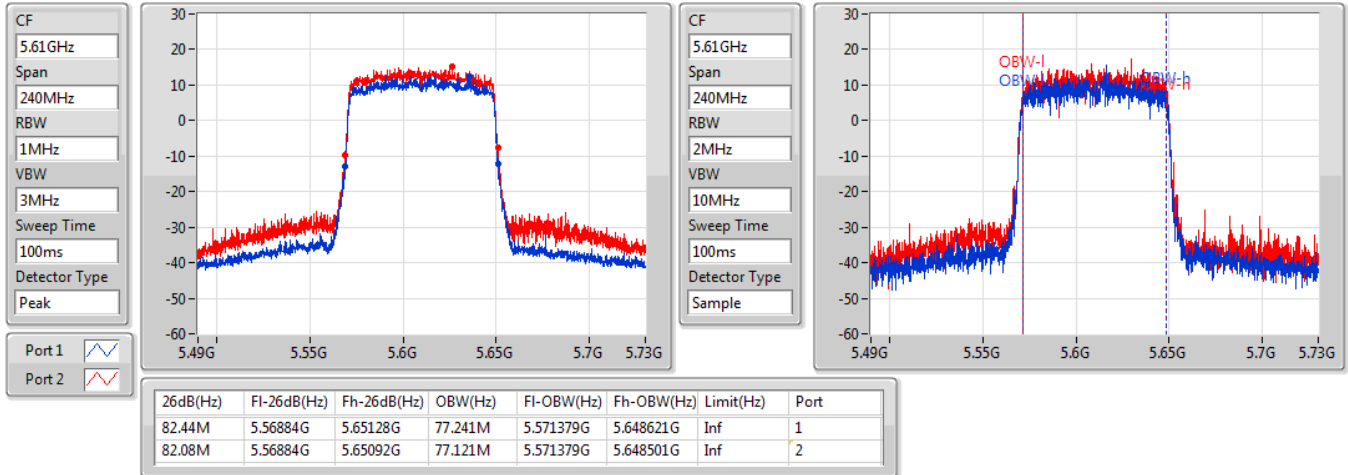
24/12/2020



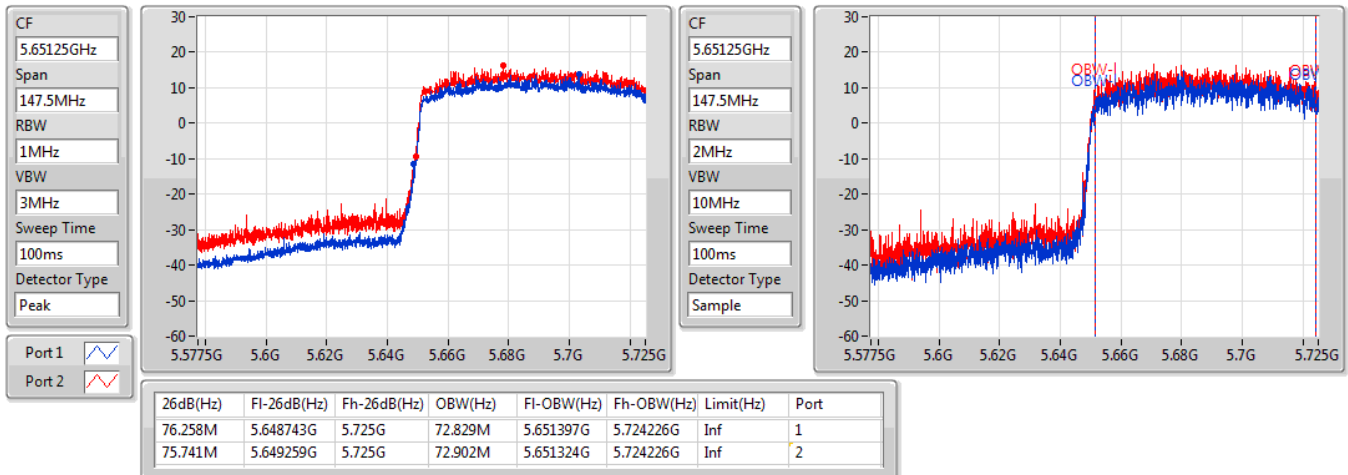


**802.11ax HEW80\_Nss1,(MCS0)\_2TX**
**EBW**
**5610MHz**

24/12/2020


**802.11ax HEW80\_Nss1,(MCS0)\_2TX**
**EBW**
**5690MHz Straddle 5.47-5.725GHz**

24/12/2020

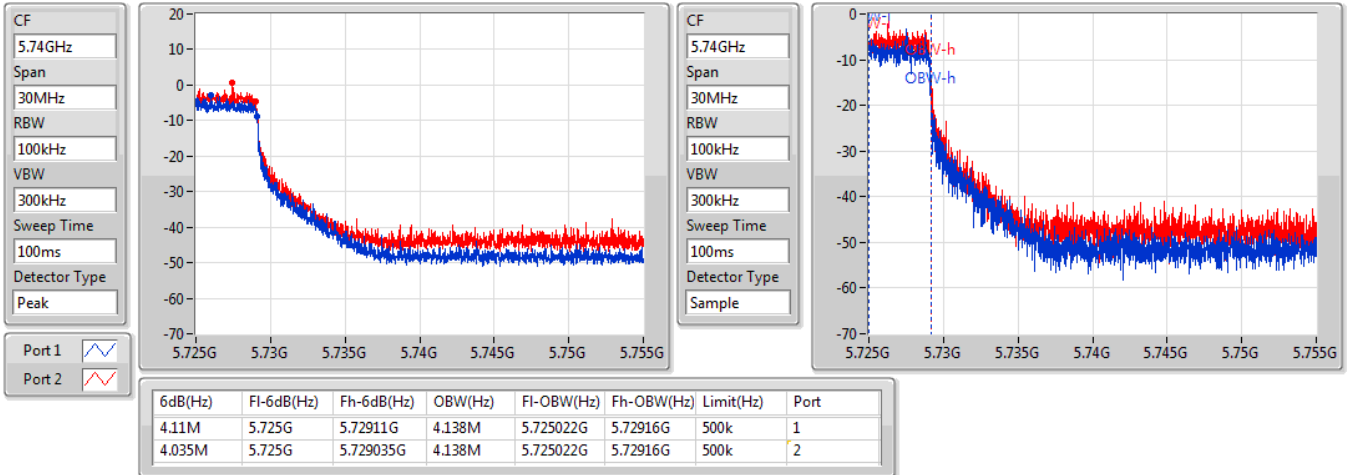


# 802.11ax HEW80\_Nss1,(MCS0)\_2TX

EBW

## 5690MHz Straddle 5.725-5.85GHz

24/12/2020



**Summary**

| Mode                           | Max-N dB<br>(Hz) | Max-OBW<br>(Hz) | ITU-Code | Min-N dB<br>(Hz) | Min-OBW<br>(Hz) |
|--------------------------------|------------------|-----------------|----------|------------------|-----------------|
| 5.25-5.35GHz                   | -                | -               | -        | -                | -               |
| 802.11a_Nss1,(6Mbps)_1TX       | 34.14M           | 18.039M         | 18M0D1D  | 25.83M           | 16.696M         |
| 802.11n HT20_Nss1,(MCS0)_1TX   | 30.21M           | 18.111M         | 18M1D1D  | 24.78M           | 17.871M         |
| 802.11n HT40_Nss1,(MCS0)_1TX   | 51.72M           | 36.762M         | 36M8D1D  | 48.3M            | 36.642M         |
| 802.11ac VHT20_Nss1,(MCS0)_1TX | 30.3M            | 18.135M         | 18M1D1D  | 25.62M           | 17.799M         |
| 802.11ac VHT40_Nss1,(MCS0)_1TX | 64.92M           | 36.798M         | 36M8D1D  | 49.56M           | 36.366M         |
| 802.11ac VHT80_Nss1,(MCS0)_1TX | 98.88M           | 75.994M         | 76M0D1D  | 98.88M           | 75.994M         |
| 5.47-5.725GHz                  | -                | -               | -        | -                | -               |
| 802.11a_Nss1,(6Mbps)_1TX       | 37.14M           | 18.903M         | 18M9D1D  | 19.429M          | 13.881M         |
| 802.11n HT20_Nss1,(MCS0)_1TX   | 31.95M           | 18.141M         | 18M1D1D  | 18.15M           | 14.032M         |
| 802.11n HT40_Nss1,(MCS0)_1TX   | 54.84M           | 36.822M         | 36M8D1D  | 40.568M          | 33.362M         |
| 802.11ac VHT20_Nss1,(MCS0)_1TX | 36.27M           | 18.519M         | 18M5D1D  | 18.755M          | 14.018M         |
| 802.11ac VHT40_Nss1,(MCS0)_1TX | 78.66M           | 37.277M         | 37M3D1D  | 41.918M          | 33.193M         |
| 802.11ac VHT80_Nss1,(MCS0)_1TX | 105.36M          | 76.09M          | 76M1D1D  | 87.984M          | 72.755M         |
| 5.725-5.85GHz                  | -                | -               | -        | -                | -               |
| 802.11a_Nss1,(6Mbps)_1TX       | 3.165M           | 6.432M          | 6M43D1D  | 3.165M           | 6.432M          |
| 802.11n HT20_Nss1,(MCS0)_1TX   | 3.765M           | 5.442M          | 5M44D1D  | 3.765M           | 5.442M          |
| 802.11n HT40_Nss1,(MCS0)_1TX   | 3.165M           | 7.706M          | 7M71D1D  | 3.165M           | 7.706M          |
| 802.11ac VHT20_Nss1,(MCS0)_1TX | 3.795M           | 5.712M          | 5M71D1D  | 3.795M           | 5.712M          |
| 802.11ac VHT40_Nss1,(MCS0)_1TX | 3.105M           | 9.745M          | 9M75D1D  | 3.105M           | 9.745M          |
| 802.11ac VHT80_Nss1,(MCS0)_1TX | 3.225M           | 19.295M         | 19M3D1D  | 3.225M           | 19.295M         |

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

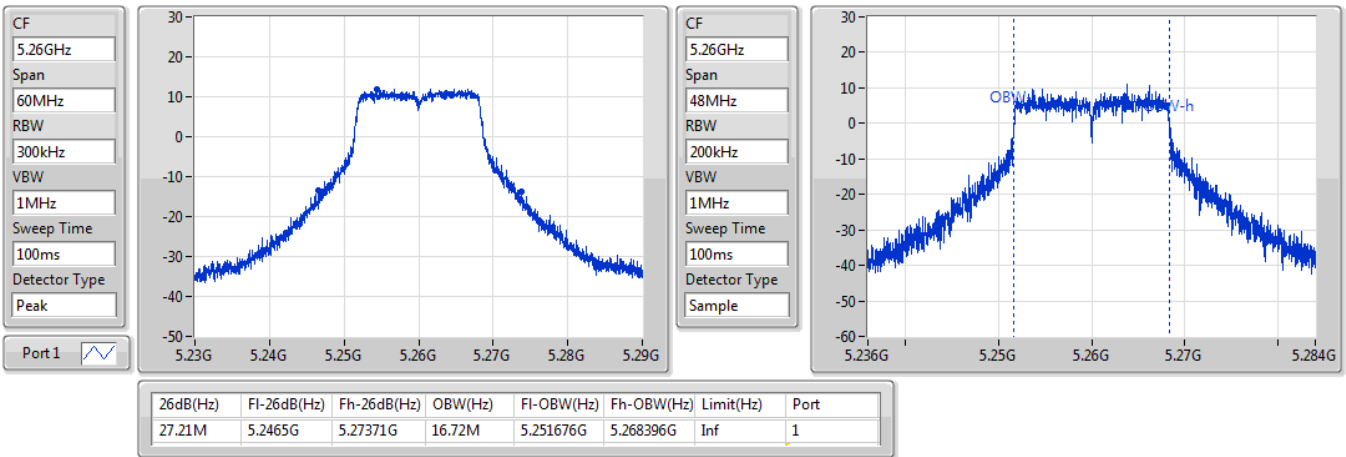
**Result**

| Mode                           | Result | Limit (Hz) | Port 1-N dB (Hz) | Port 1-OBW (Hz) |
|--------------------------------|--------|------------|------------------|-----------------|
| 802.11a_Nss1,(6Mbps)_1TX       | -      | -          | -                | -               |
| 5260MHz                        | Pass   | Inf        | 27.21M           | 16.72M          |
| 5300MHz                        | Pass   | Inf        | 34.14M           | 18.039M         |
| 5320MHz                        | Pass   | Inf        | 25.83M           | 16.696M         |
| 5500MHz                        | Pass   | Inf        | 25.95M           | 16.672M         |
| 5580MHz                        | Pass   | Inf        | 37.14M           | 18.903M         |
| 5700MHz                        | Pass   | Inf        | 25.65M           | 16.696M         |
| 5720MHz Straddle 5.47-5.725GHz | Pass   | Inf        | 19.429M          | 13.881M         |
| 5720MHz Straddle 5.725-5.85GHz | Pass   | 500k       | 3.165M           | 6.432M          |
| 802.11n HT20_Nss1,(MCS0)_1TX   | -      | -          | -                | -               |
| 5260MHz                        | Pass   | Inf        | 26.07M           | 18.021M         |
| 5300MHz                        | Pass   | Inf        | 30.21M           | 18.111M         |
| 5320MHz                        | Pass   | Inf        | 24.78M           | 17.871M         |
| 5500MHz                        | Pass   | Inf        | 25.86M           | 17.961M         |
| 5580MHz                        | Pass   | Inf        | 31.95M           | 18.141M         |
| 5700MHz                        | Pass   | Inf        | 26.19M           | 17.991M         |
| 5720MHz Straddle 5.47-5.725GHz | Pass   | Inf        | 18.15M           | 14.032M         |
| 5720MHz Straddle 5.725-5.85GHz | Pass   | 500k       | 3.765M           | 5.442M          |
| 802.11n HT40_Nss1,(MCS0)_1TX   | -      | -          | -                | -               |
| 5270MHz                        | Pass   | Inf        | 51.72M           | 36.762M         |
| 5310MHz                        | Pass   | Inf        | 48.3M            | 36.642M         |
| 5510MHz                        | Pass   | Inf        | 49.68M           | 36.822M         |
| 5550MHz                        | Pass   | Inf        | 54.84M           | 36.702M         |
| 5670MHz                        | Pass   | Inf        | 53.04M           | 36.702M         |
| 5710MHz Straddle 5.47-5.725GHz | Pass   | Inf        | 40.568M          | 33.362M         |
| 5710MHz Straddle 5.725-5.85GHz | Pass   | 500k       | 3.165M           | 7.706M          |
| 802.11ac VHT20_Nss1,(MCS0)_1TX | -      | -          | -                | -               |
| 5260MHz                        | Pass   | Inf        | 27.84M           | 17.847M         |
| 5300MHz                        | Pass   | Inf        | 30.3M            | 18.135M         |
| 5320MHz                        | Pass   | Inf        | 25.62M           | 17.799M         |
| 5500MHz                        | Pass   | Inf        | 25.77M           | 17.847M         |
| 5580MHz                        | Pass   | Inf        | 36.27M           | 18.519M         |
| 5700MHz                        | Pass   | Inf        | 26.88M           | 17.823M         |
| 5720MHz Straddle 5.47-5.725GHz | Pass   | Inf        | 18.755M          | 14.018M         |
| 5720MHz Straddle 5.725-5.85GHz | Pass   | 500k       | 3.795M           | 5.712M          |
| 802.11ac VHT40_Nss1,(MCS0)_1TX | -      | -          | -                | -               |
| 5270MHz                        | Pass   | Inf        | 64.92M           | 36.798M         |
| 5310MHz                        | Pass   | Inf        | 49.56M           | 36.366M         |
| 5510MHz                        | Pass   | Inf        | 48.3M            | 36.414M         |
| 5550MHz                        | Pass   | Inf        | 78.66M           | 37.277M         |
| 5670MHz                        | Pass   | Inf        | 53.1M            | 36.462M         |
| 5710MHz Straddle 5.47-5.725GHz | Pass   | Inf        | 41.918M          | 33.193M         |
| 5710MHz Straddle 5.725-5.85GHz | Pass   | 500k       | 3.105M           | 9.745M          |
| 802.11ac VHT80_Nss1,(MCS0)_1TX | -      | -          | -                | -               |
| 5290MHz                        | Pass   | Inf        | 98.88M           | 75.994M         |
| 5530MHz                        | Pass   | Inf        | 97.32M           | 75.994M         |
| 5610MHz                        | Pass   | Inf        | 105.36M          | 76.09M          |
| 5690MHz Straddle 5.47-5.725GHz | Pass   | Inf        | 87.984M          | 72.755M         |
| 5690MHz Straddle 5.725-5.85GHz | Pass   | 500k       | 3.225M           | 19.295M         |

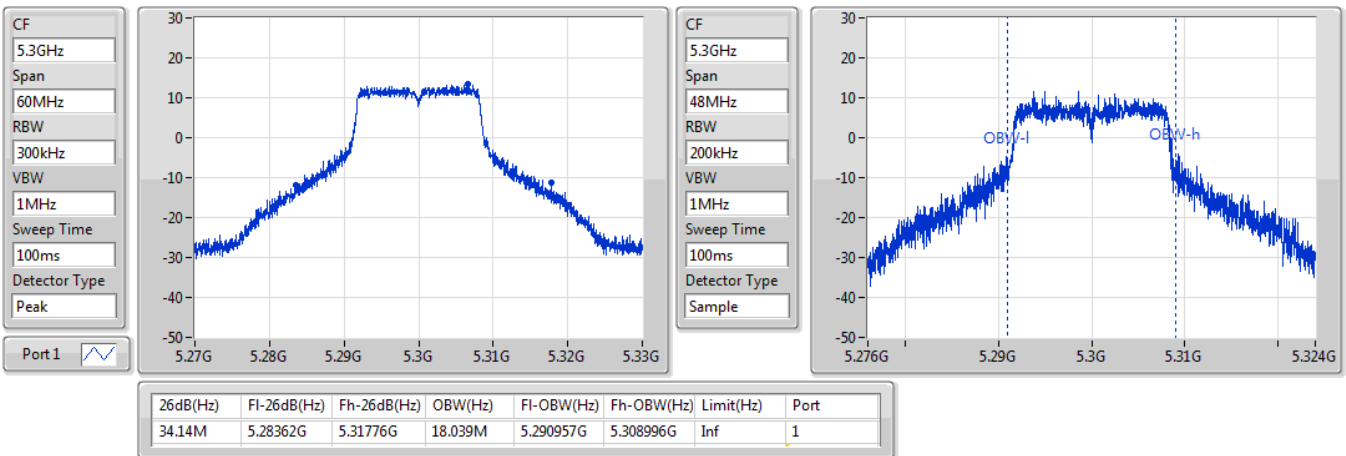
Port X-N dB = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band  
Port X-OBW = Port X 99% occupied bandwidth

**802.11a\_Nss1,(6Mbps)\_1TX**
**EBW**
**5260MHz**

11/11/2020

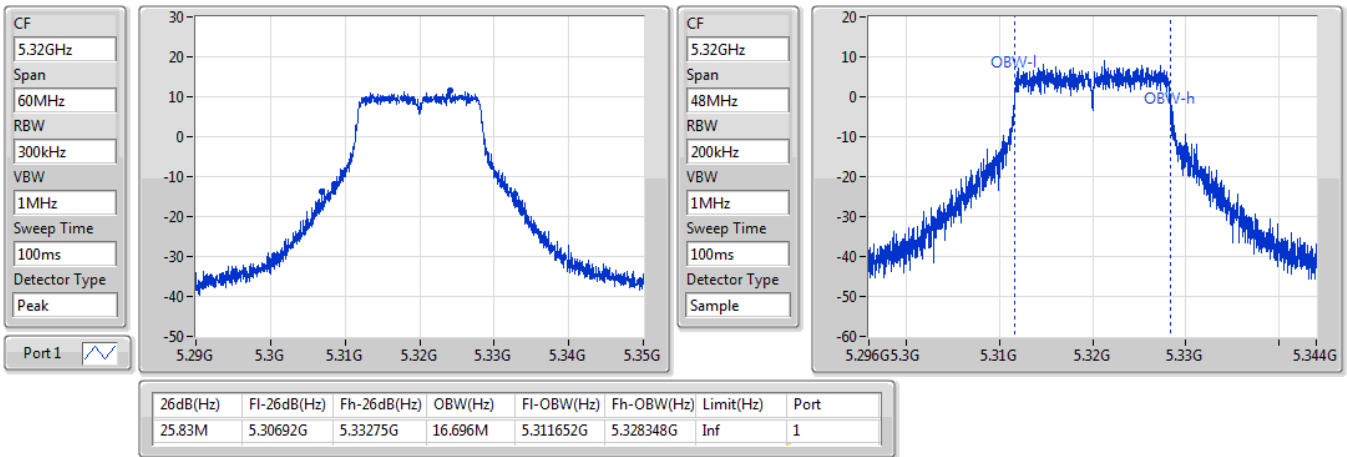

**802.11a\_Nss1,(6Mbps)\_1TX**
**EBW**
**5300MHz**

11/11/2020

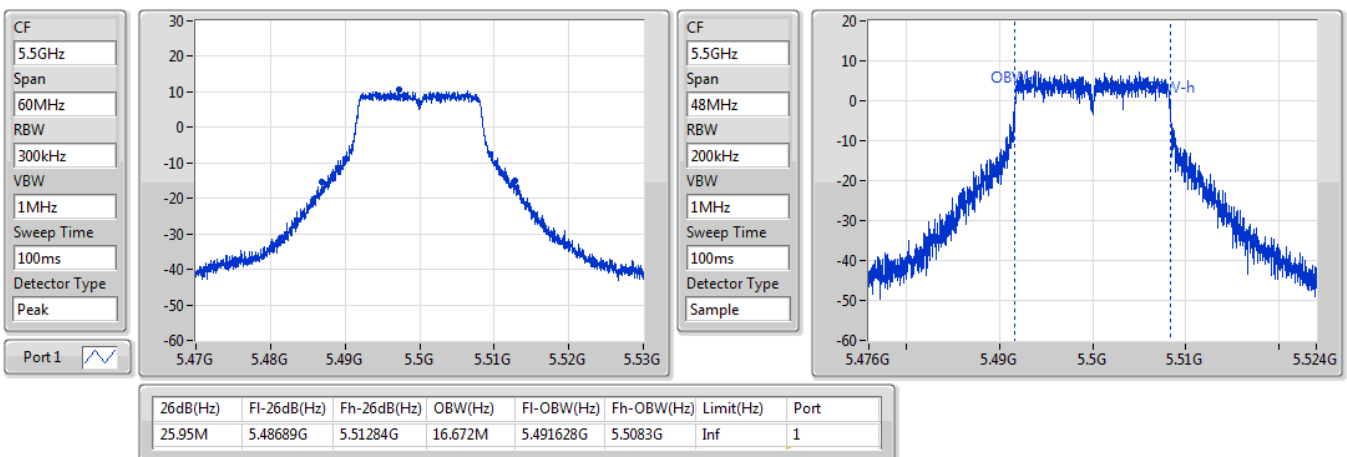


**802.11a\_Nss1,(6Mbps)\_1TX**
**EBW**
**5320MHz**

11/11/2020

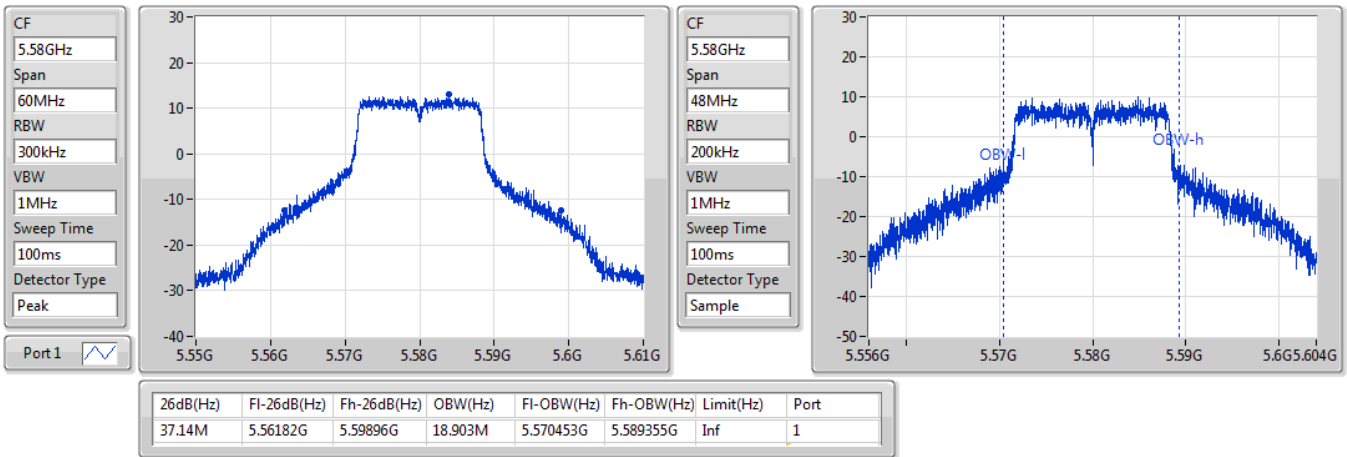

**802.11a\_Nss1,(6Mbps)\_1TX**
**EBW**
**5500MHz**

11/11/2020

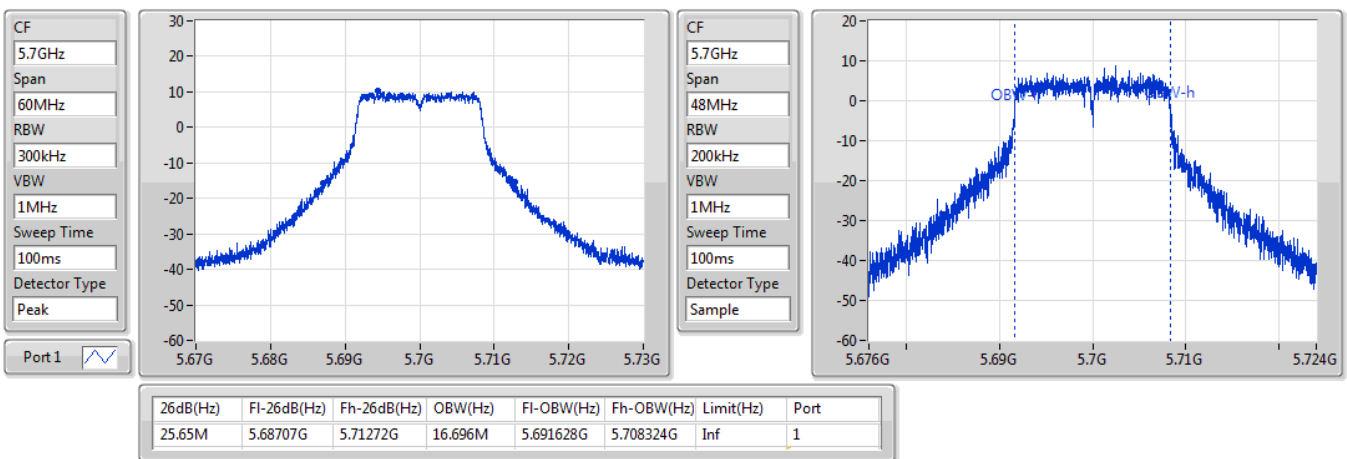


**802.11a\_Nss1,(6Mbps)\_1TX**
**EBW**
**5580MHz**

11/11/2020

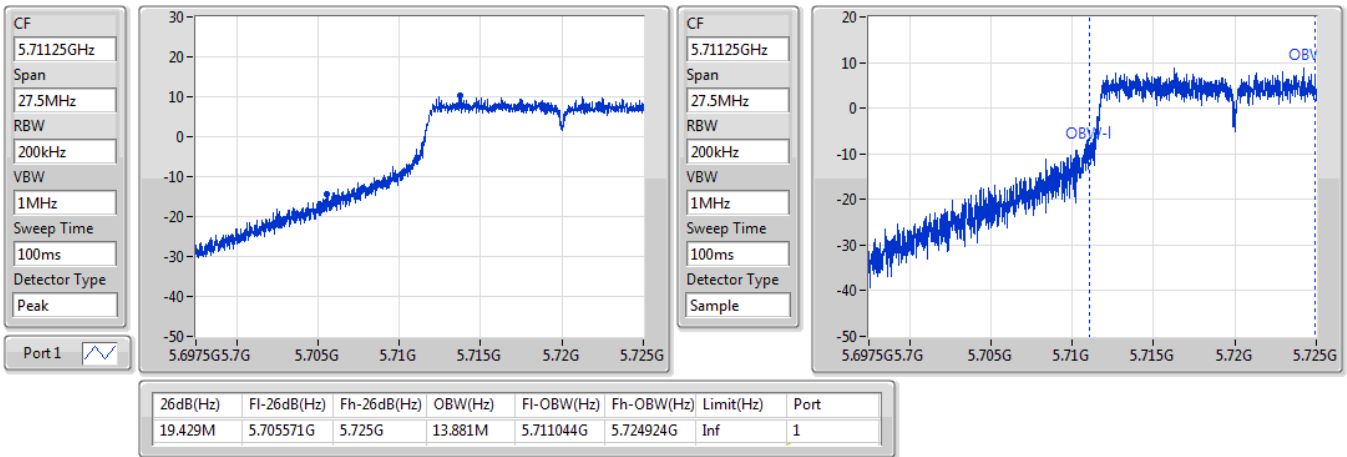

**802.11a\_Nss1,(6Mbps)\_1TX**
**EBW**
**5700MHz**

11/11/2020

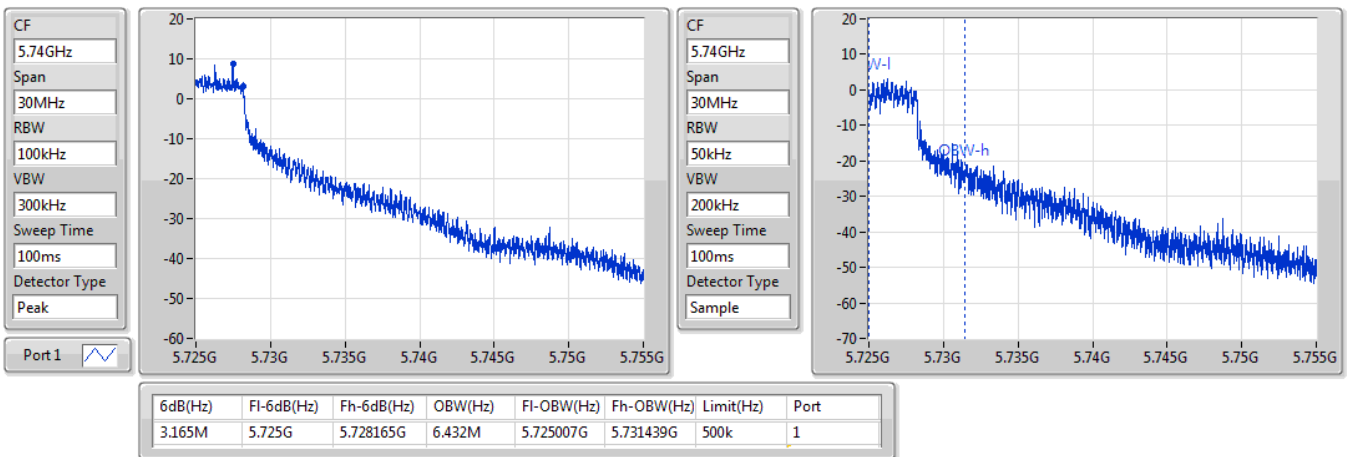


**802.11a\_Nss1,(6Mbps)\_1TX**
**EBW**
**5720MHz Straddle 5.47-5.725GHz**

11/11/2020


**802.11a\_Nss1,(6Mbps)\_1TX**
**EBW**
**5720MHz Straddle 5.725-5.85GHz**

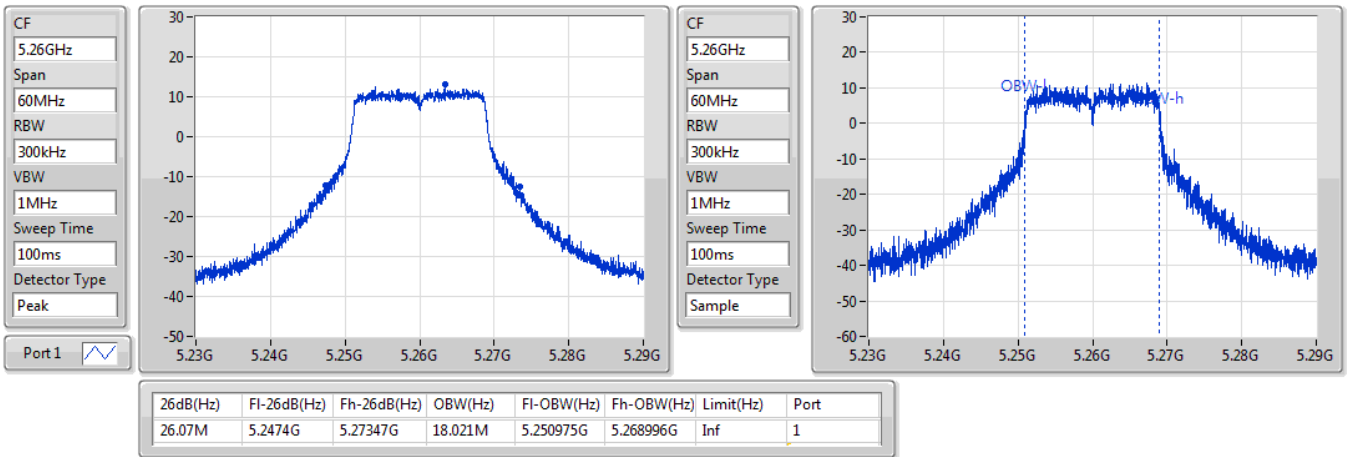
11/11/2020



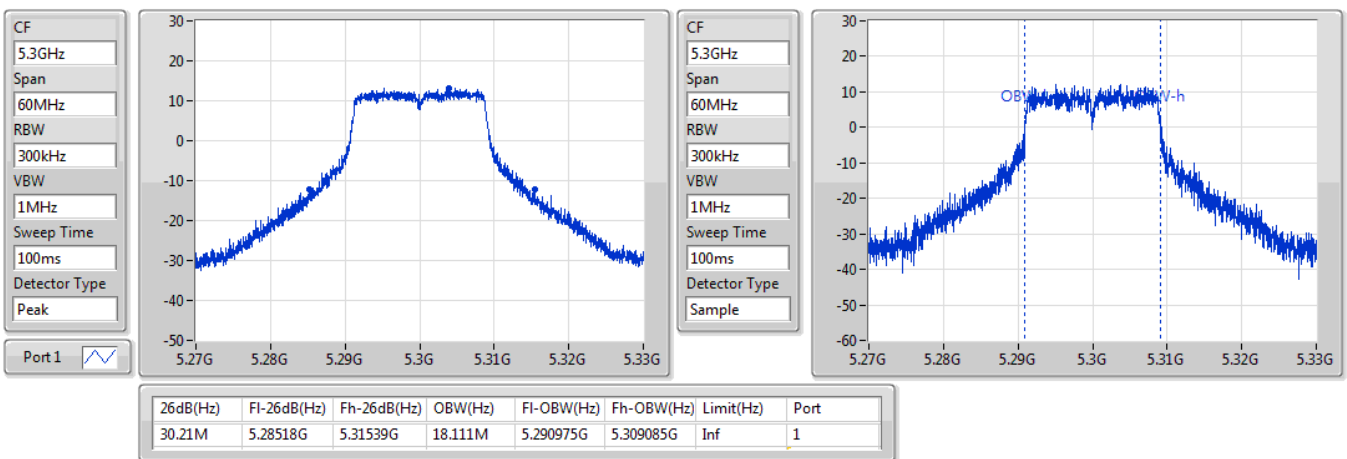


**802.11n HT20\_Nss1,(MCS0)\_1TX**
**EBW**
**5260MHz**

24/12/2020

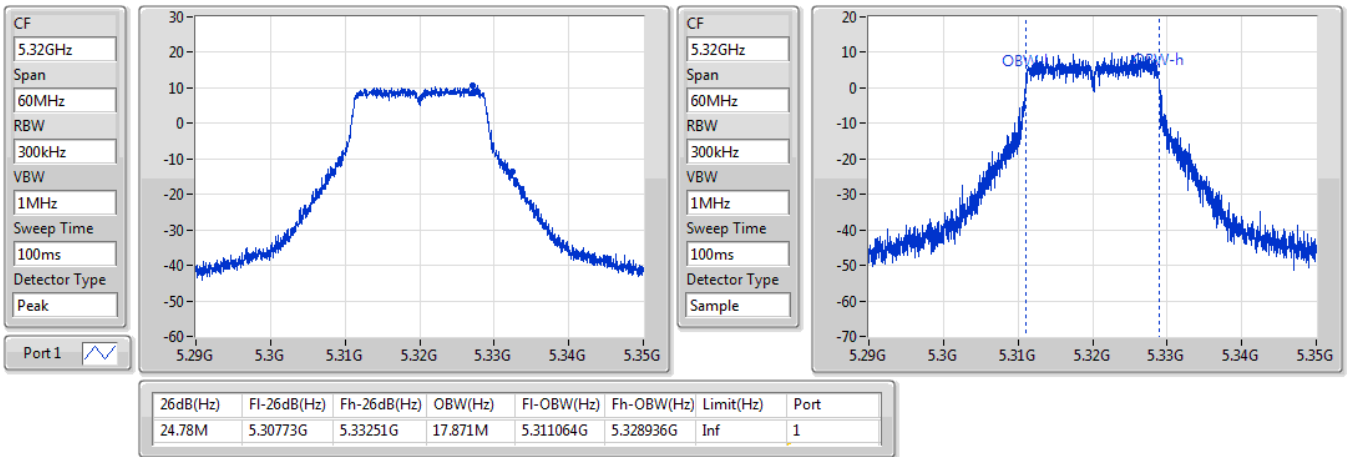

**802.11n HT20\_Nss1,(MCS0)\_1TX**
**EBW**
**5300MHz**

24/12/2020

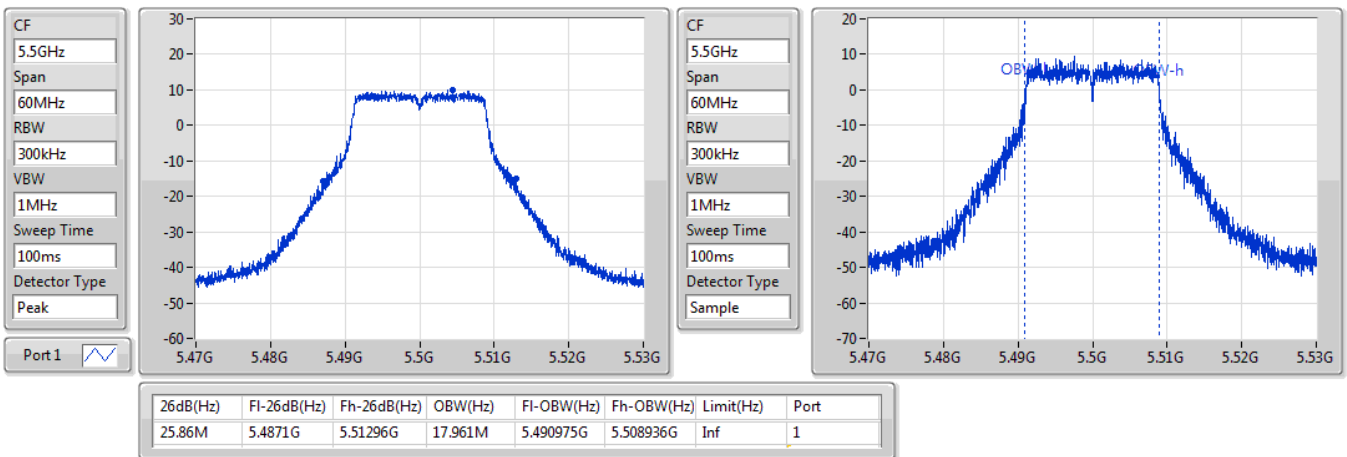


**802.11n HT20\_Nss1,(MCS0)\_1TX**
**EBW**
**5320MHz**

24/12/2020

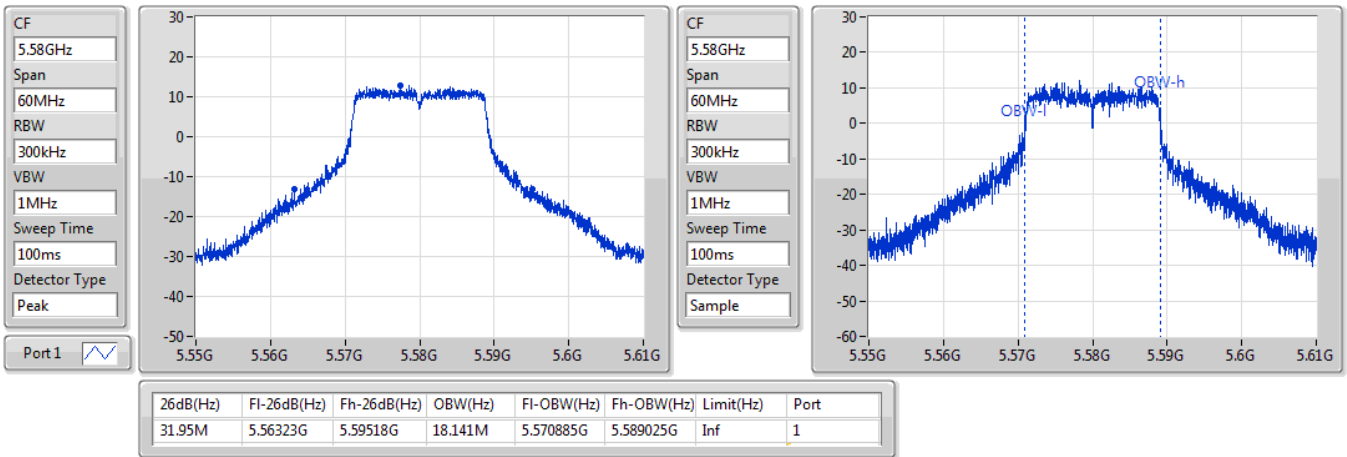

**802.11n HT20\_Nss1,(MCS0)\_1TX**
**EBW**
**5500MHz**

24/12/2020

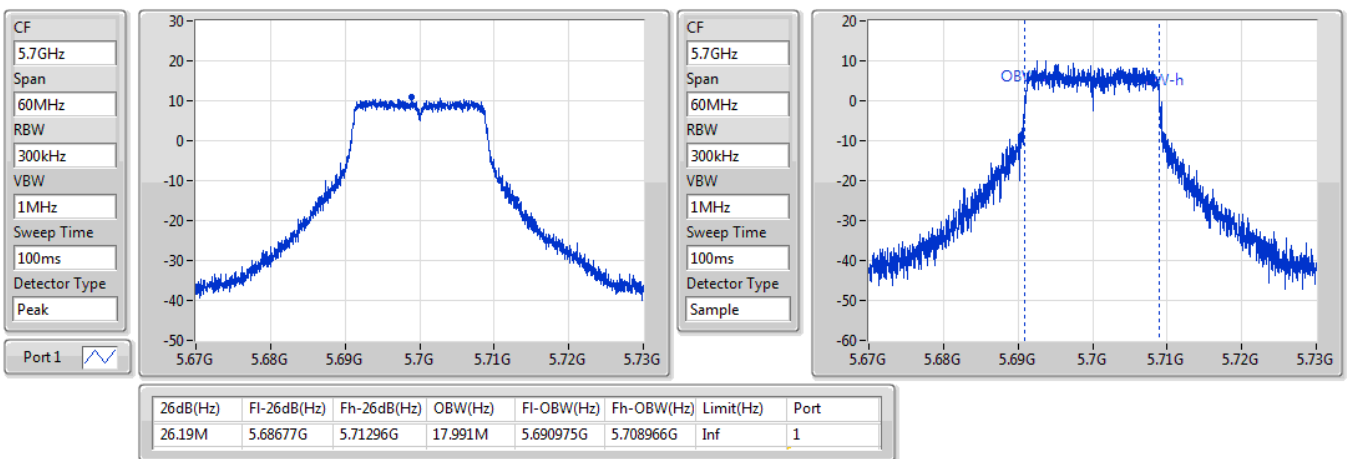


**802.11n HT20\_Nss1,(MCS0)\_1TX**
**EBW**
**5580MHz**

24/12/2020

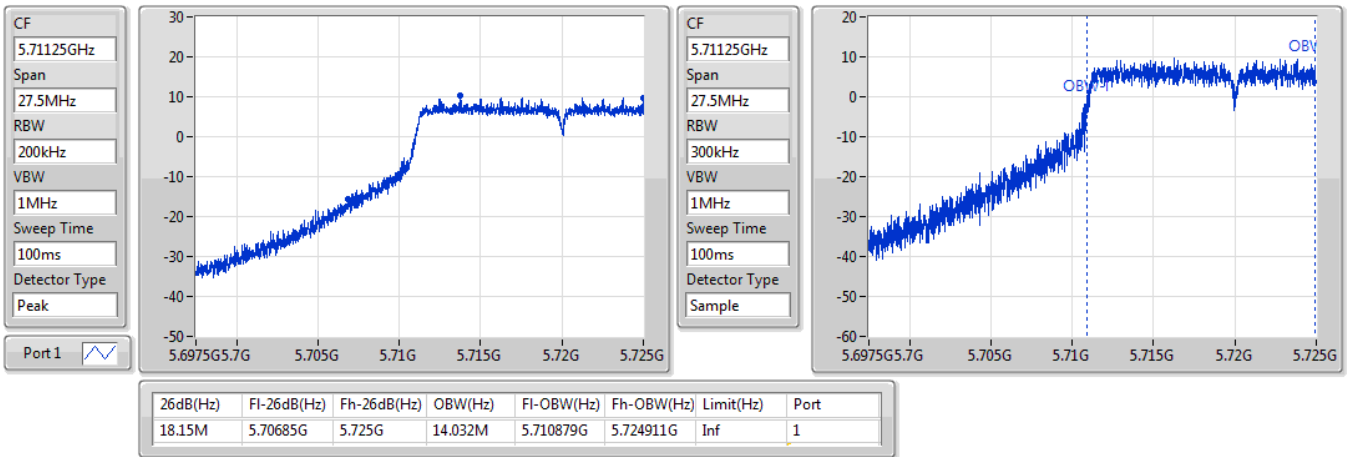

**802.11n HT20\_Nss1,(MCS0)\_1TX**
**EBW**
**5700MHz**

24/12/2020

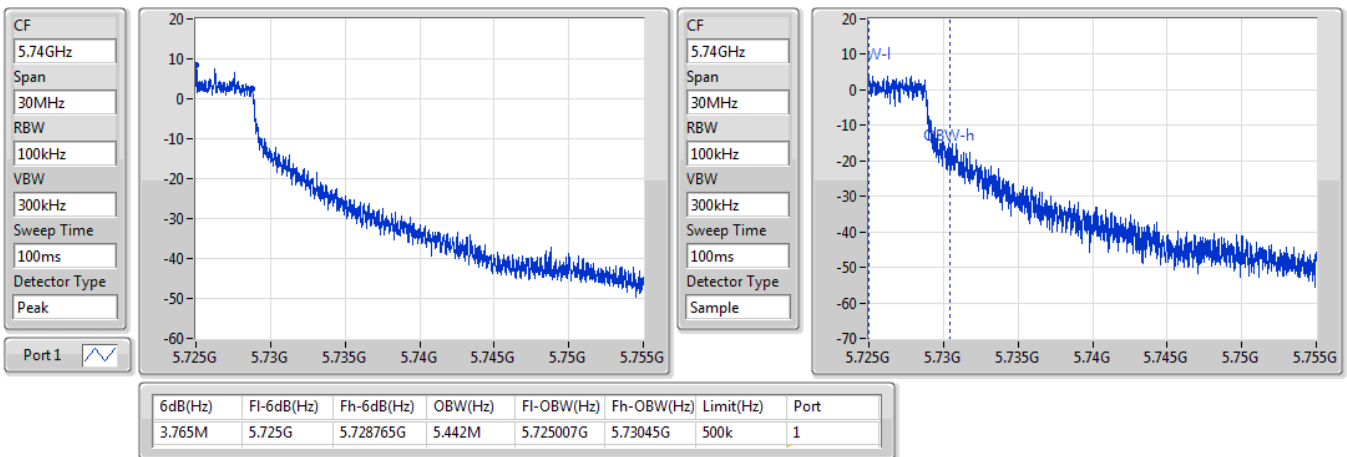


**802.11n HT20\_Nss1,(MCS0)\_1TX**
**EBW**
**5720MHz Straddle 5.47-5.725GHz**

24/12/2020

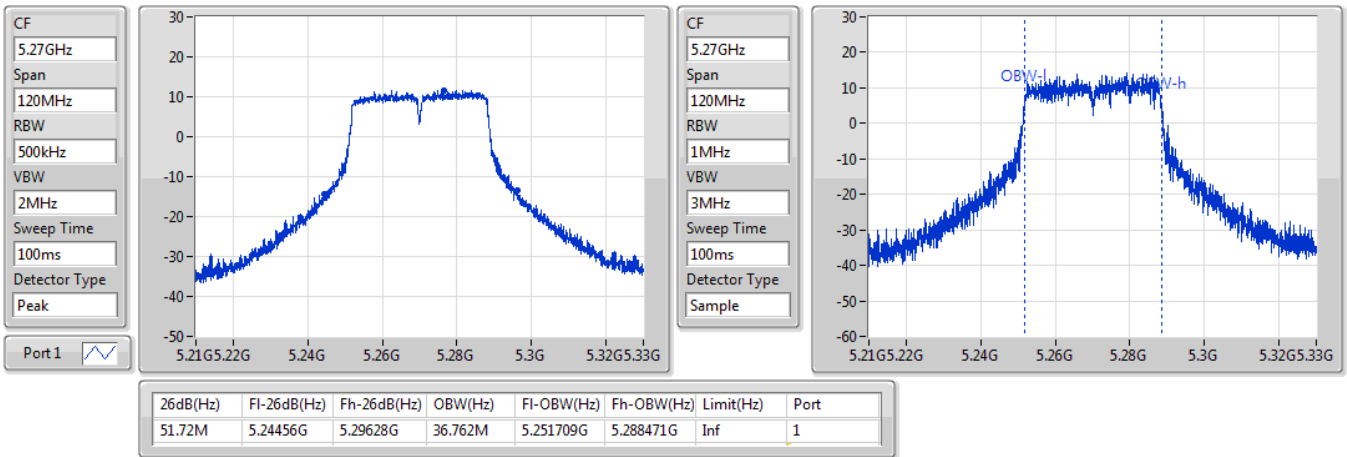

**802.11n HT20\_Nss1,(MCS0)\_1TX**
**EBW**
**5720MHz Straddle 5.725-5.85GHz**

24/12/2020

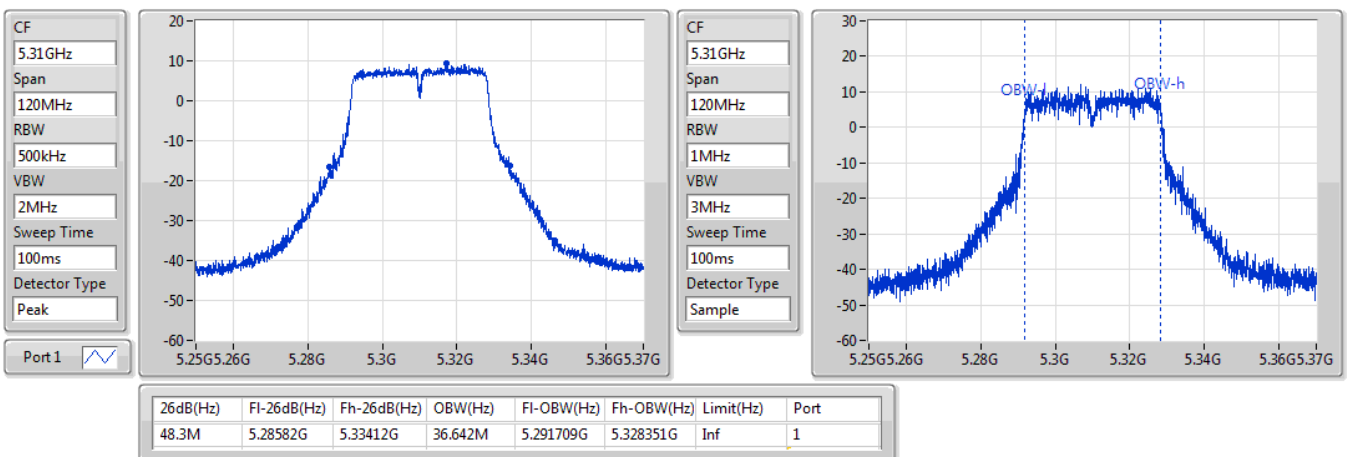


**802.11n HT40\_Nss1,(MCS0)\_1TX**
**EBW**
**5270MHz**

24/12/2020

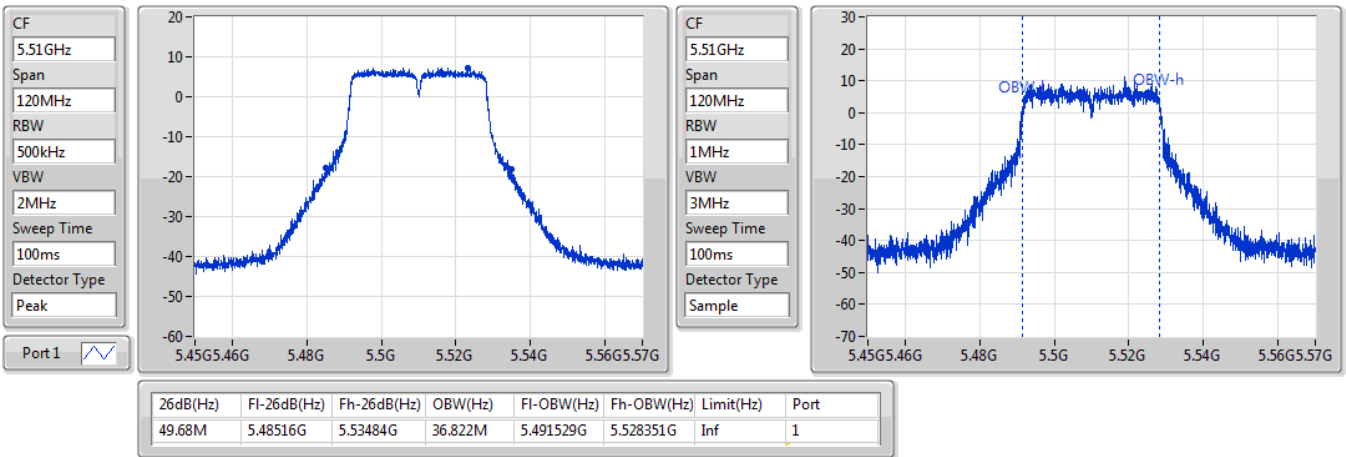

**802.11n HT40\_Nss1,(MCS0)\_1TX**
**EBW**
**5310MHz**

24/12/2020

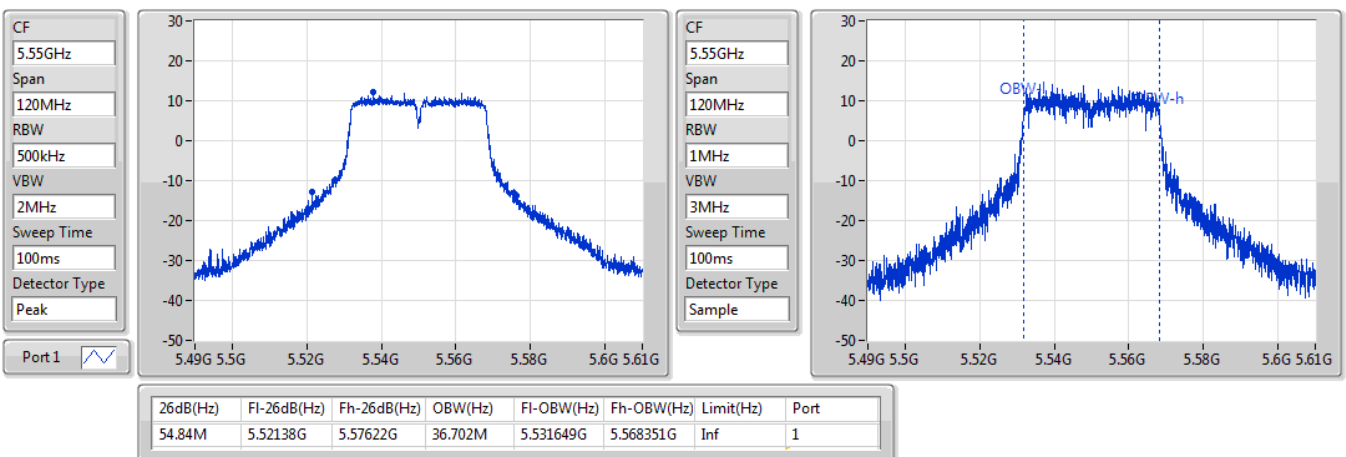


**802.11n HT40\_Nss1,(MCS0)\_1TX**
**EBW**
**5510MHz**

24/12/2020

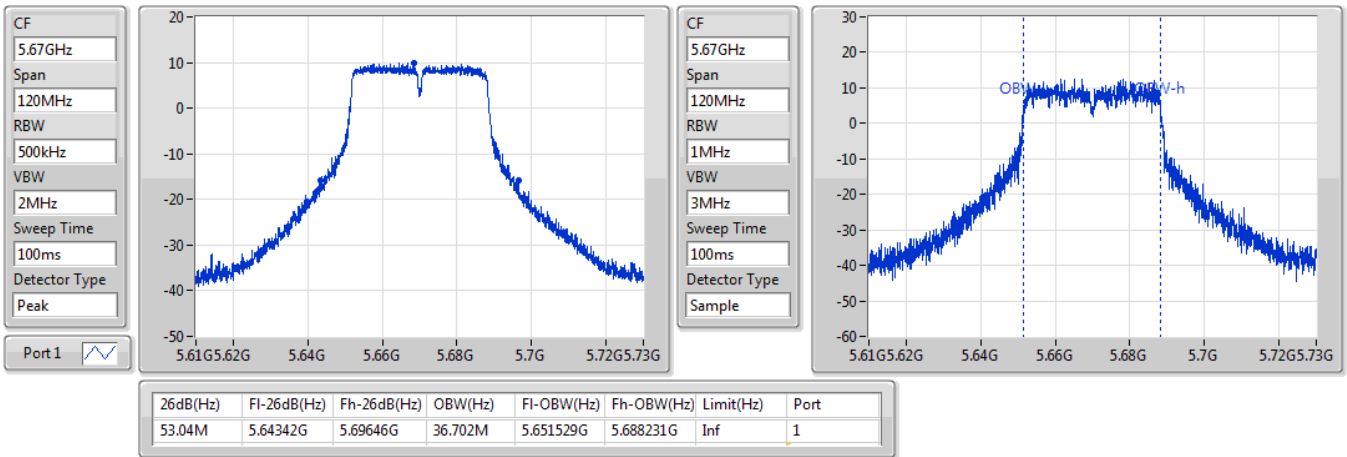

**802.11n HT40\_Nss1,(MCS0)\_1TX**
**EBW**
**5550MHz**

24/12/2020

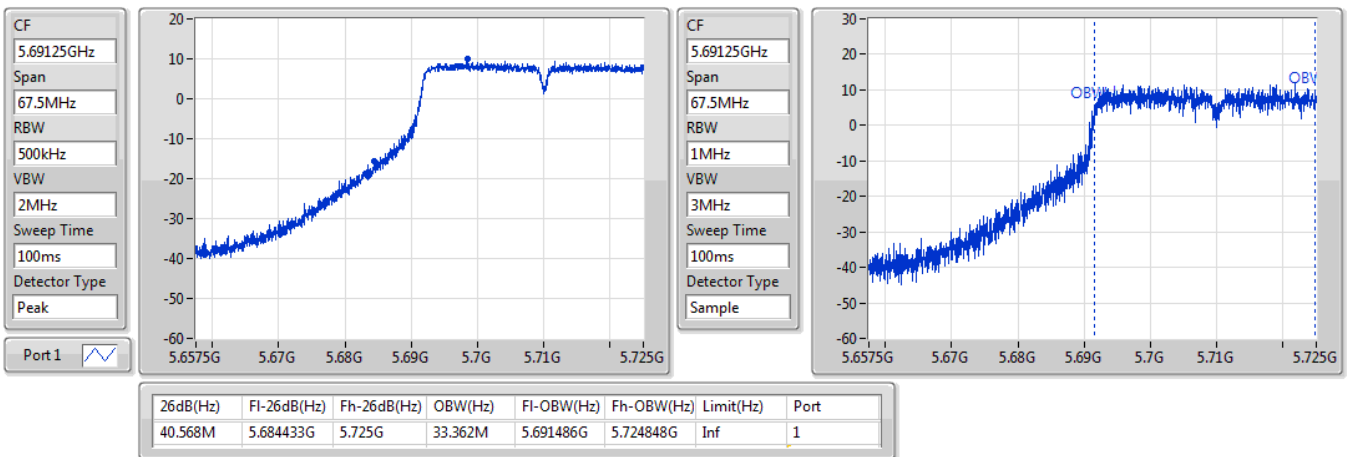


**802.11n HT40\_Nss1,(MCS0)\_1TX**
**EBW**
**5670MHz**

24/12/2020

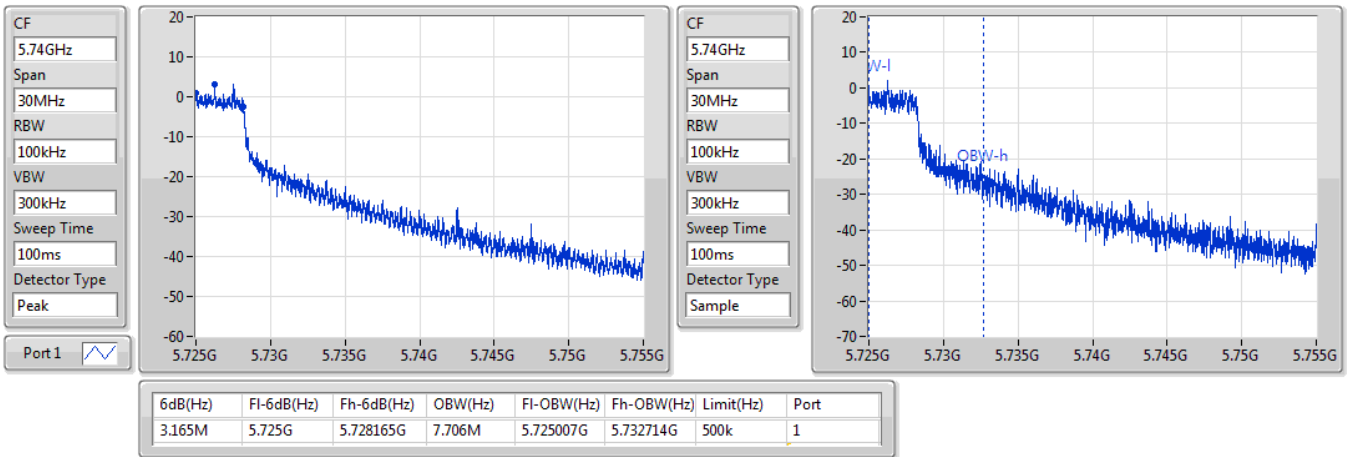

**802.11n HT40\_Nss1,(MCS0)\_1TX**
**EBW**
**5710MHz Straddle 5.47-5.725GHz**

24/12/2020

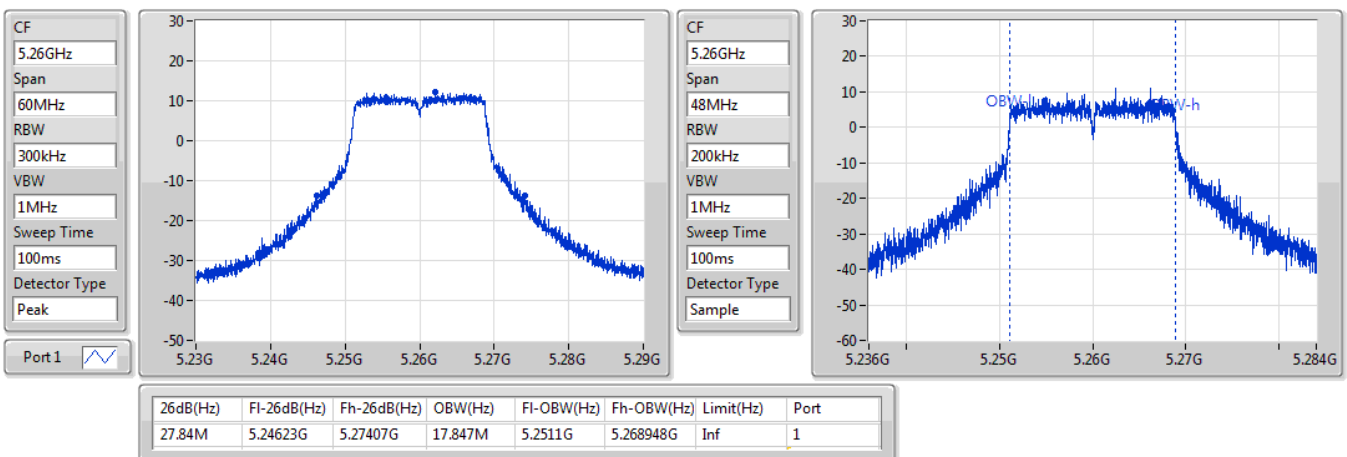


**802.11n HT40\_Nss1,(MCS0)\_1TX**
**EBW**
**5710MHz Straddle 5.725-5.85GHz**

24/12/2020


**802.11ac VHT20\_Nss1,(MCS0)\_1TX**
**EBW**
**5260MHz**

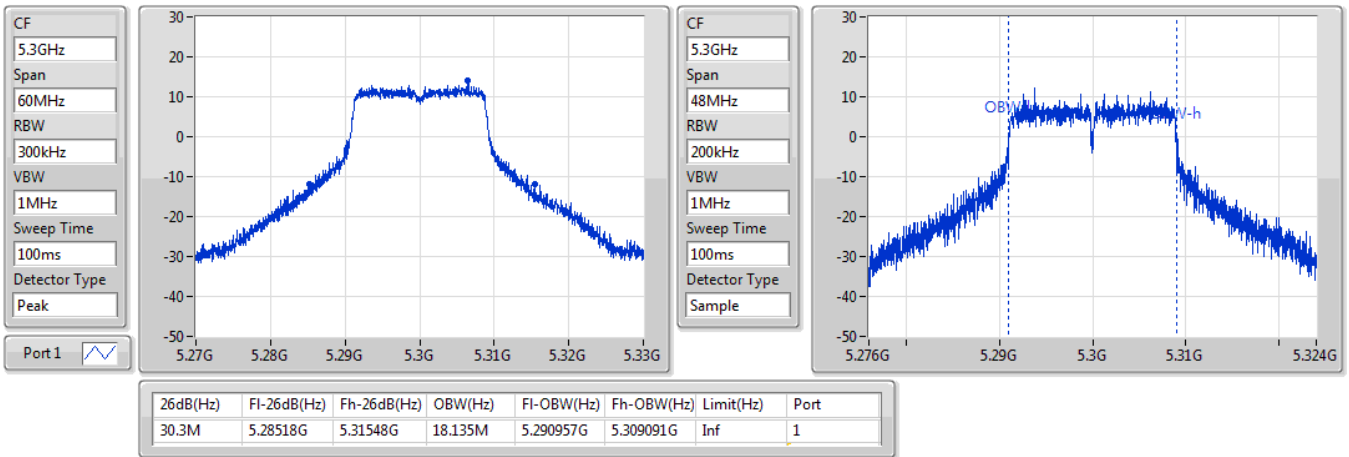
11/11/2020



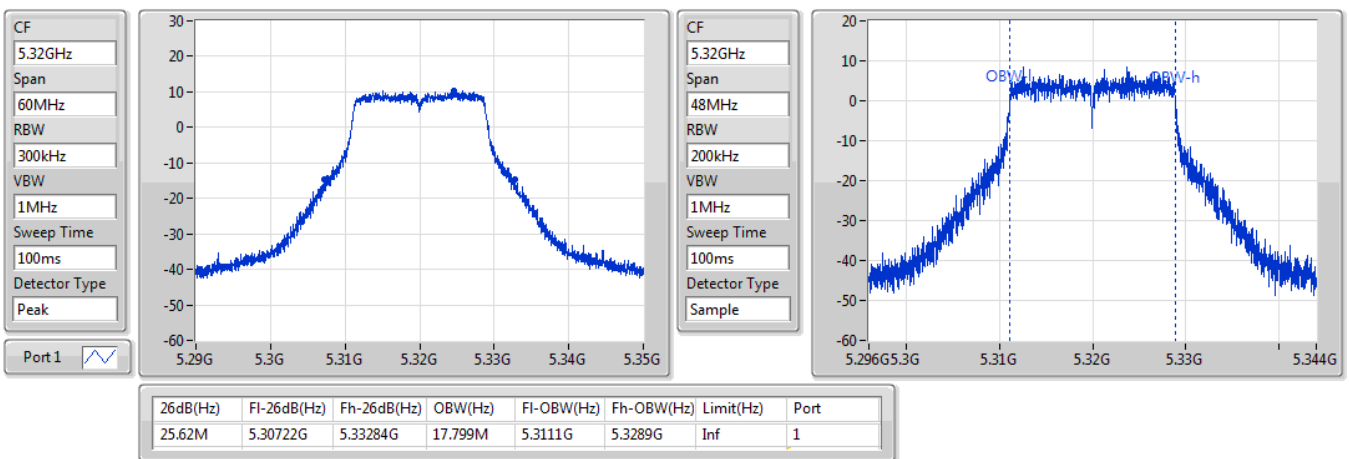


**802.11ac VHT20\_Nss1,(MCS0)\_1TX**
**EBW**
**5300MHz**

11/11/2020

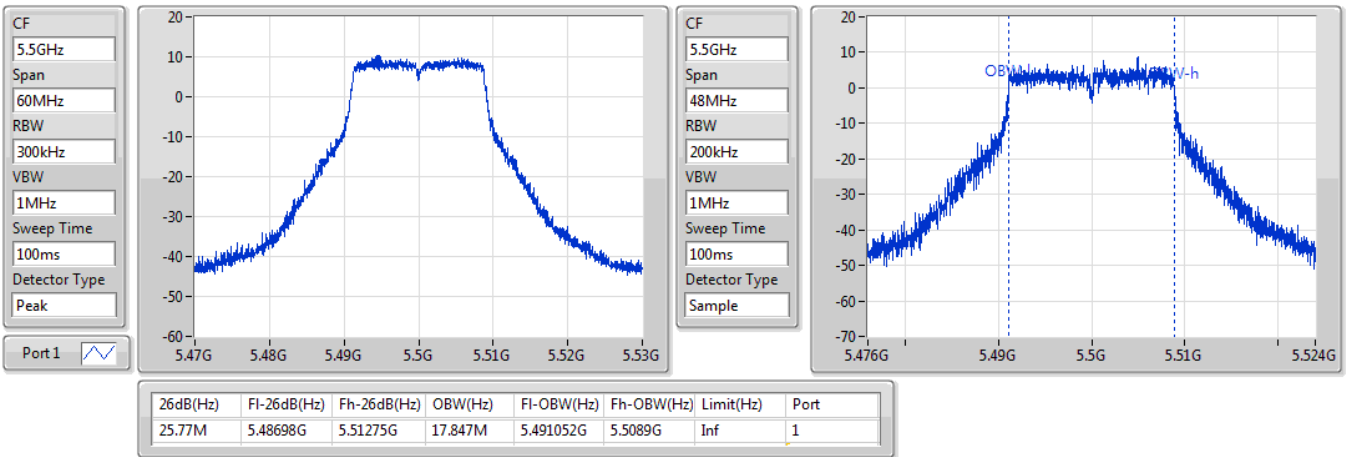

**802.11ac VHT20\_Nss1,(MCS0)\_1TX**
**EBW**
**5320MHz**

11/11/2020

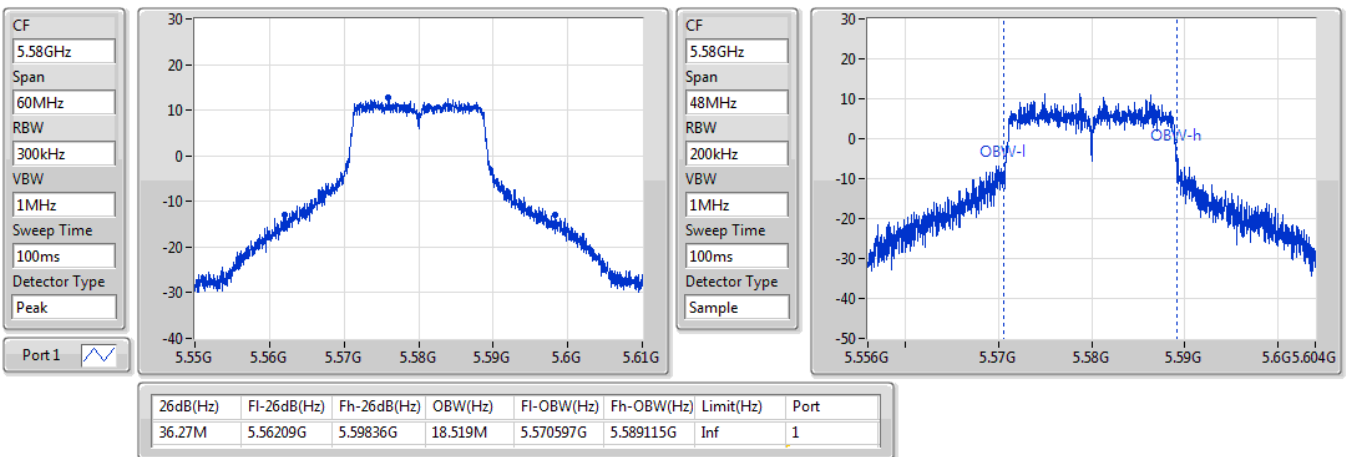


**802.11ac VHT20\_Nss1,(MCS0)\_1TX**
**EBW**
**5500MHz**

11/11/2020

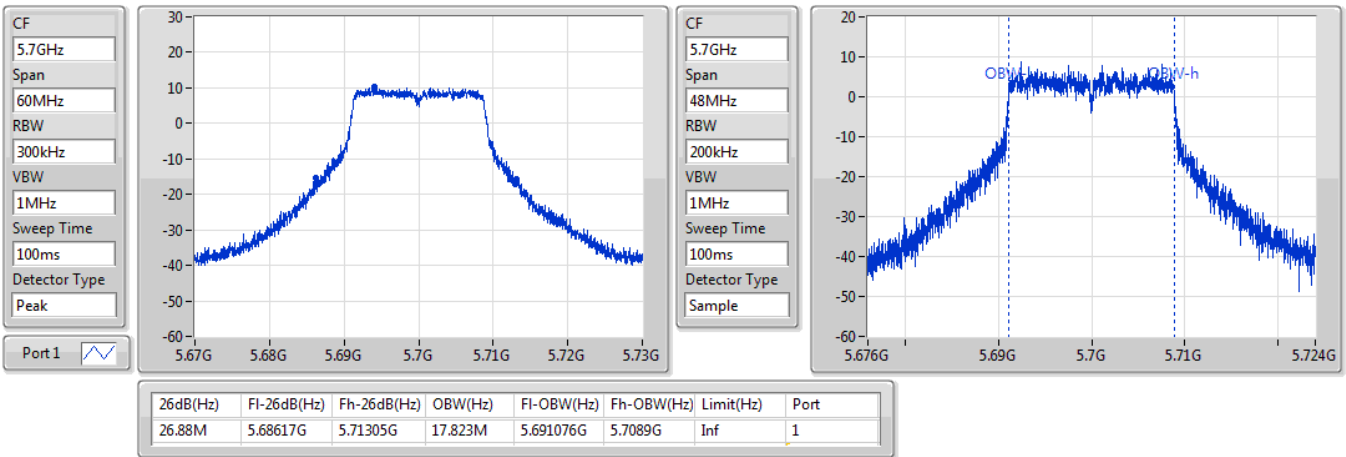

**802.11ac VHT20\_Nss1,(MCS0)\_1TX**
**EBW**
**5580MHz**

11/11/2020

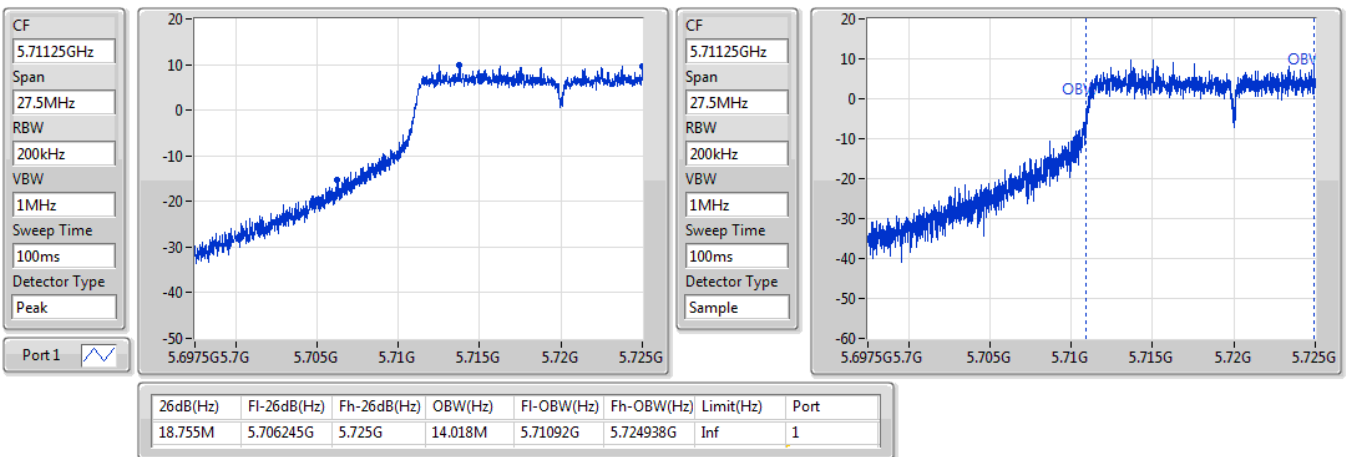


**802.11ac VHT20\_Nss1,(MCS0)\_1TX**
**EBW**
**5700MHz**

11/11/2020

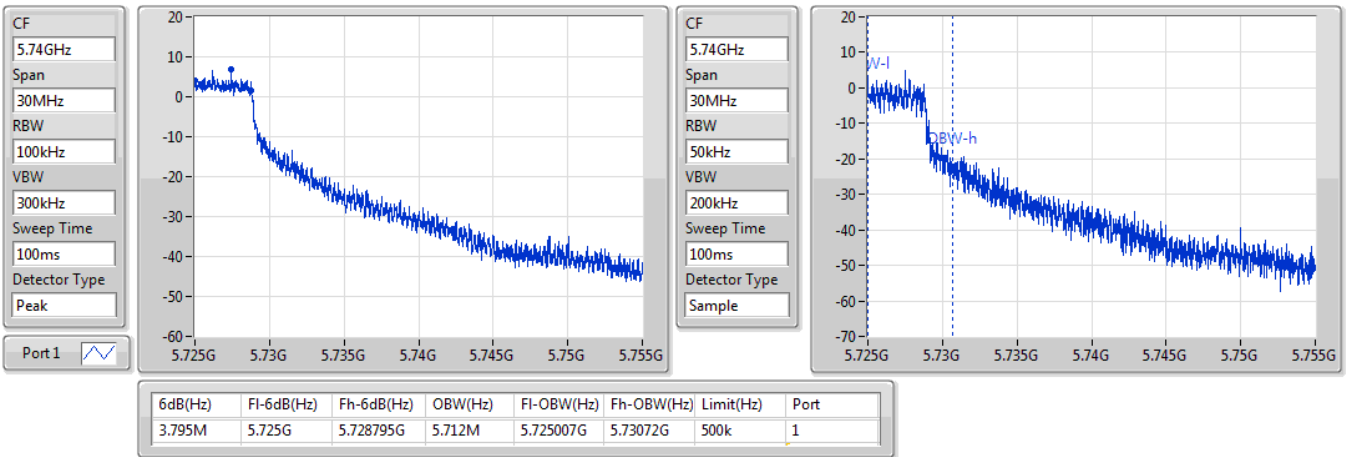

**802.11ac VHT20\_Nss1,(MCS0)\_1TX**
**EBW**
**5720MHz Straddle 5.47-5.725GHz**

11/11/2020

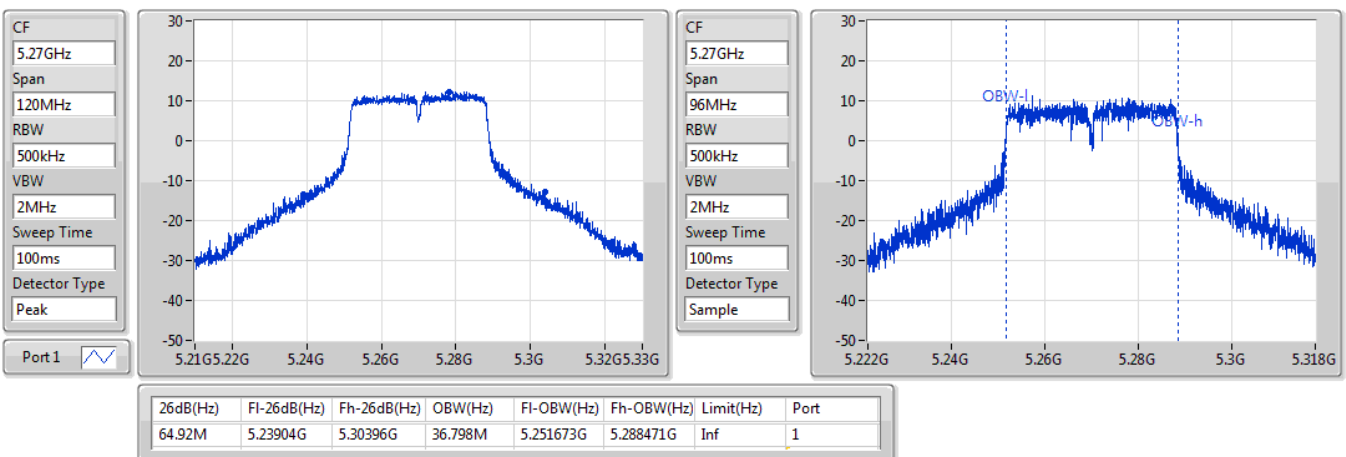


**802.11ac VHT20\_Nss1,(MCS0)\_1TX**
**EBW**
**5720MHz Straddle 5.725-5.85GHz**

11/11/2020

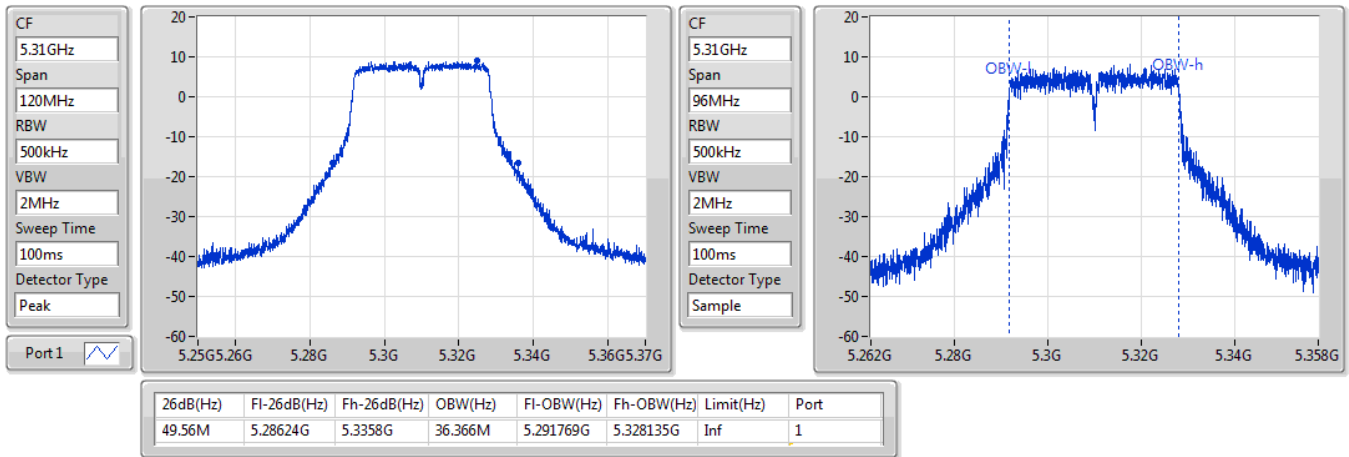

**802.11ac VHT40\_Nss1,(MCS0)\_1TX**
**EBW**
**5270MHz**

11/11/2020

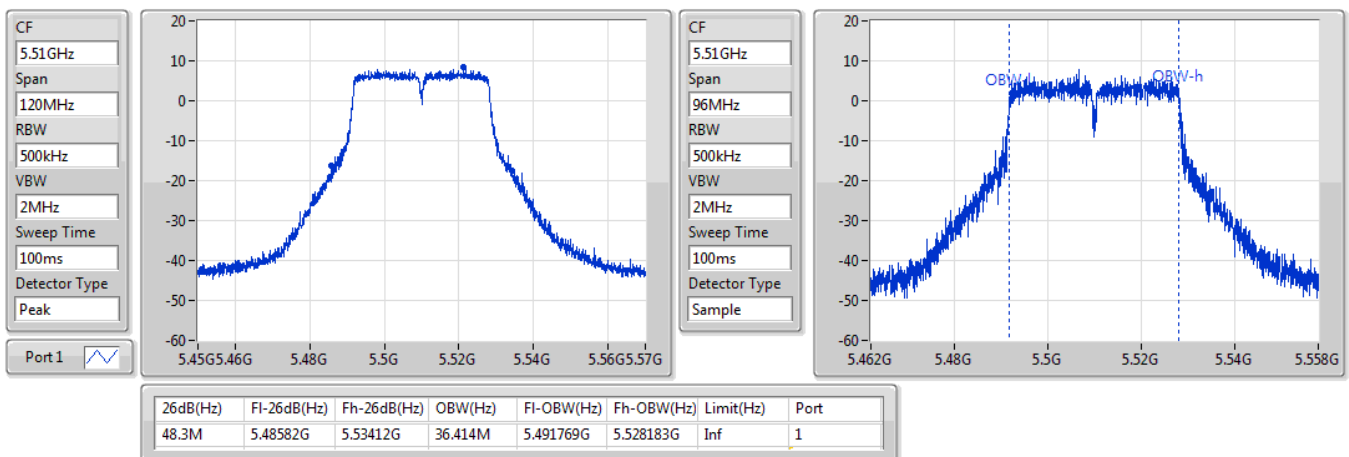


**802.11ac VHT40\_Nss1,(MCS0)\_1TX**
**EBW**
**5310MHz**

11/11/2020

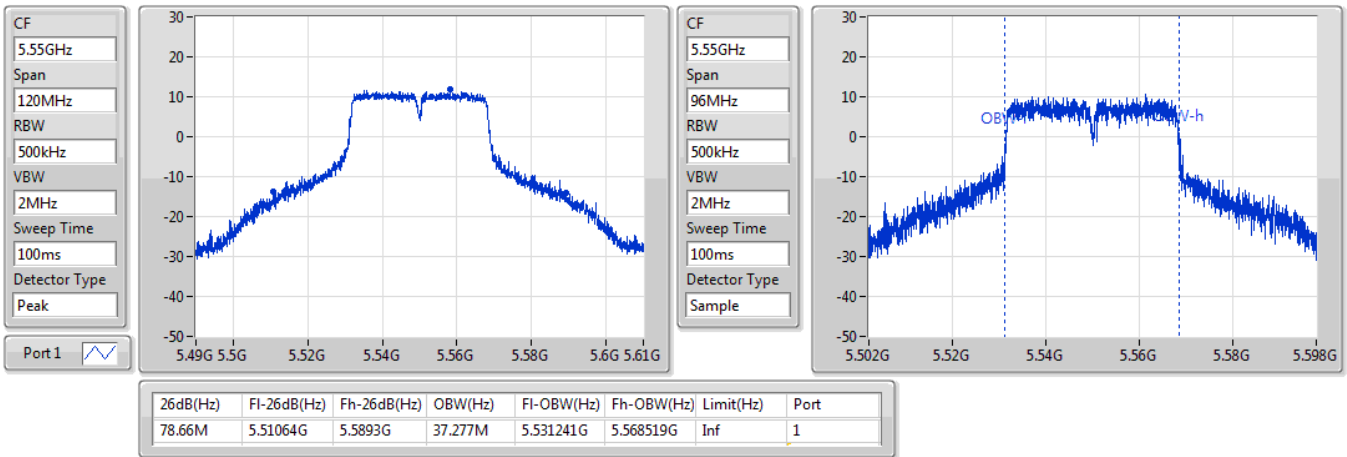

**802.11ac VHT40\_Nss1,(MCS0)\_1TX**
**EBW**
**5510MHz**

11/11/2020

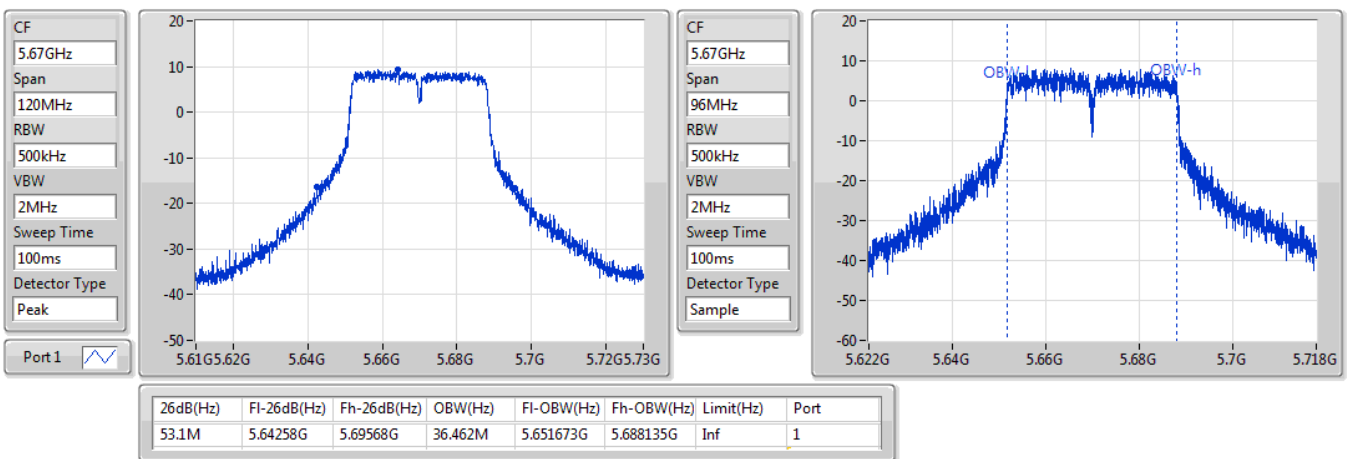


**802.11ac VHT40\_Nss1,(MCS0)\_1TX**
**EBW**
**5550MHz**

11/11/2020

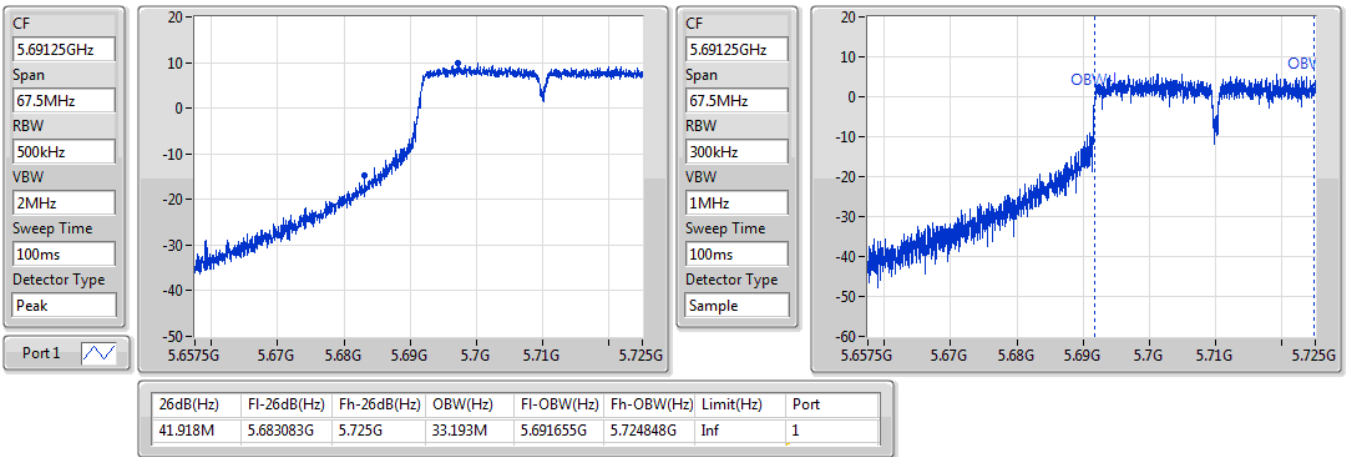

**802.11ac VHT40\_Nss1,(MCS0)\_1TX**
**EBW**
**5670MHz**

11/11/2020

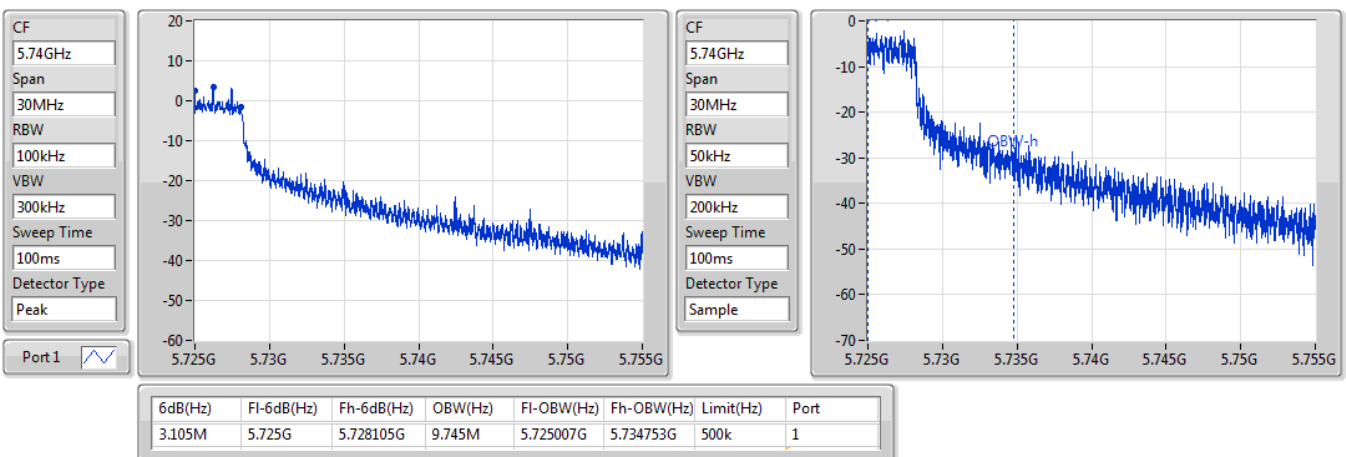


**802.11ac VHT40\_Nss1,(MCS0)\_1TX**
**EBW**
**5710MHz Straddle 5.67-5.725GHz**

11/11/2020

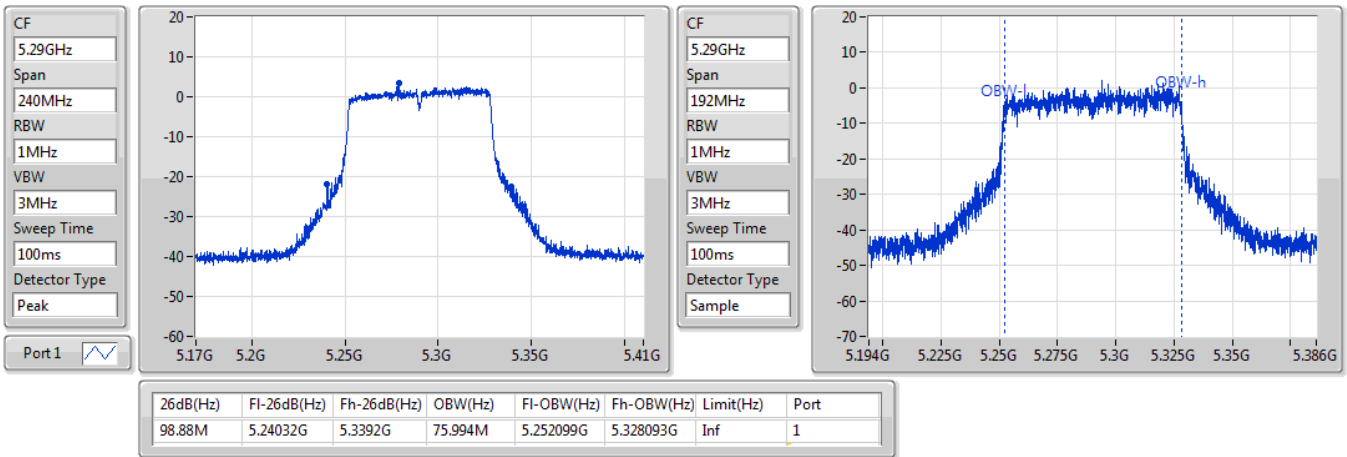

**802.11ac VHT40\_Nss1,(MCS0)\_1TX**
**EBW**
**5710MHz Straddle 5.725-5.85GHz**

11/11/2020

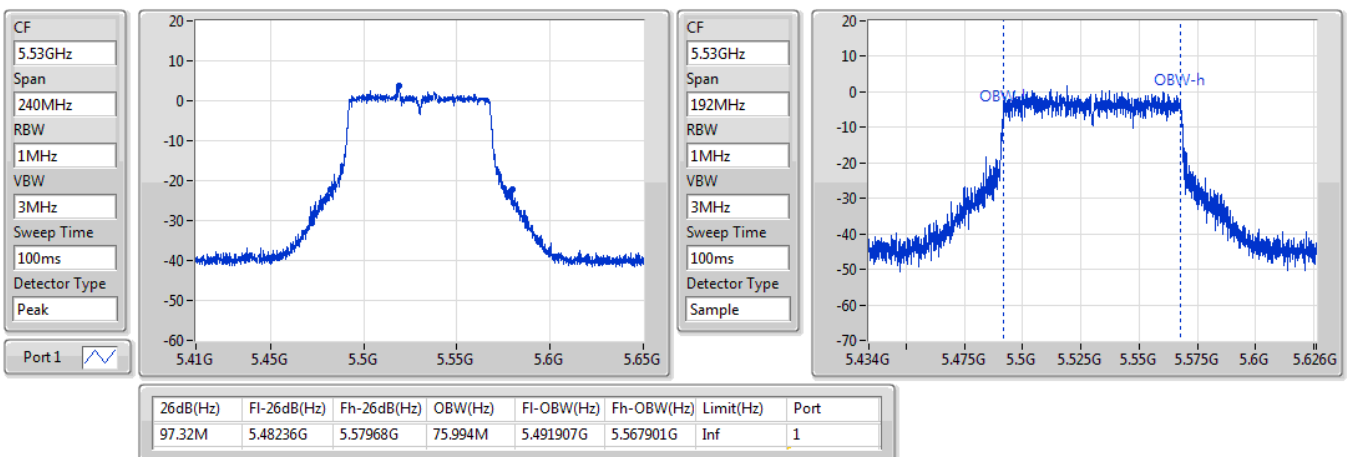


**802.11ac VHT80\_Nss1,(MCS0)\_1TX**
**EBW**
**5290MHz**

11/11/2020


**802.11ac VHT80\_Nss1,(MCS0)\_1TX**
**EBW**
**5530MHz**

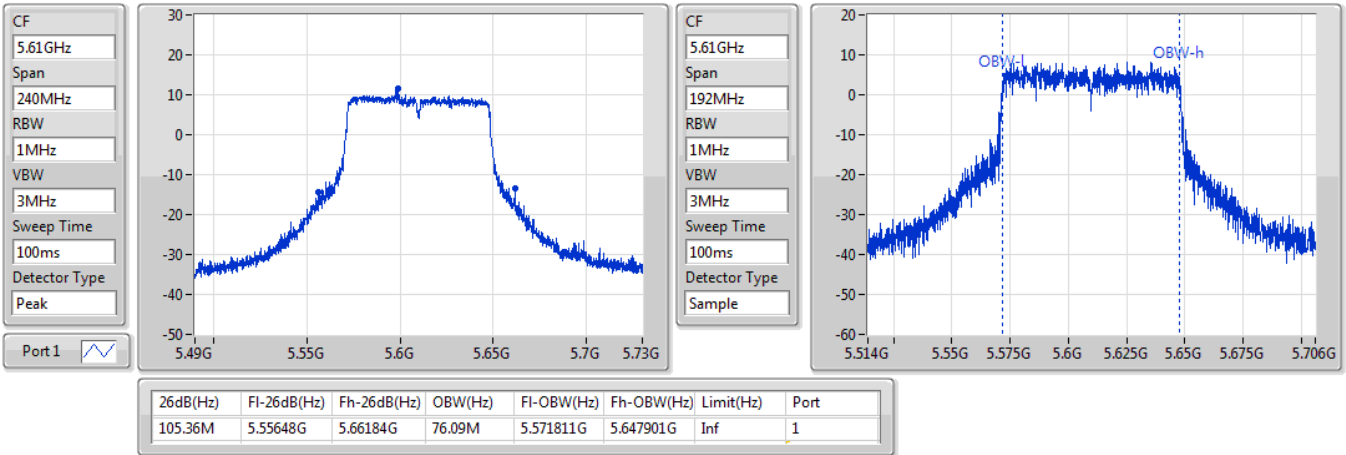
11/11/2020



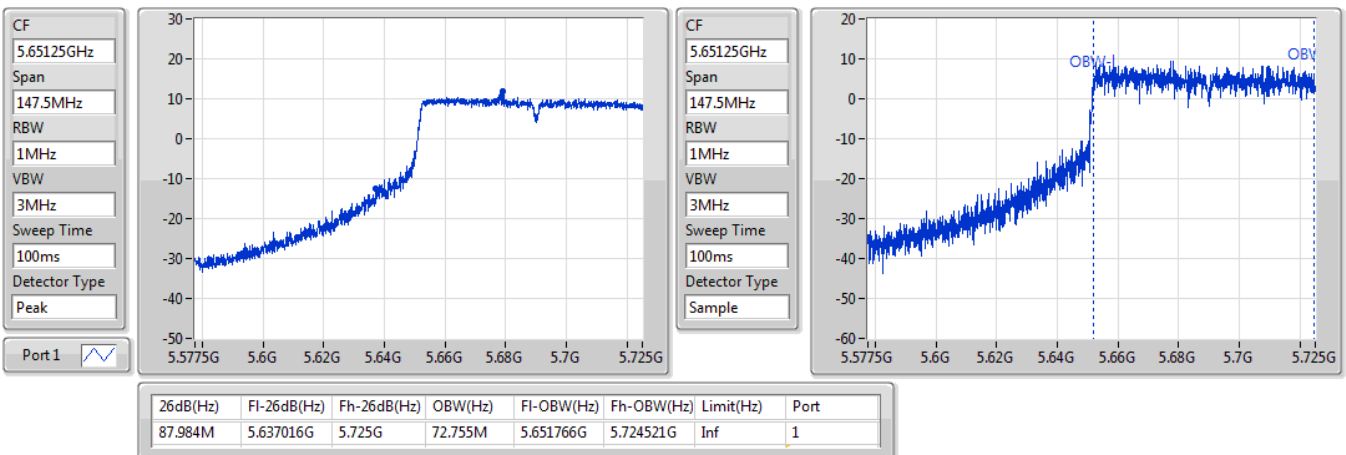


**802.11ac VHT80\_Nss1,(MCS0)\_1TX**
**EBW**
**5610MHz**

11/11/2020


**802.11ac VHT80\_Nss1,(MCS0)\_1TX**
**EBW**
**5690MHz Straddle 5.47-5.725GHz**

11/11/2020

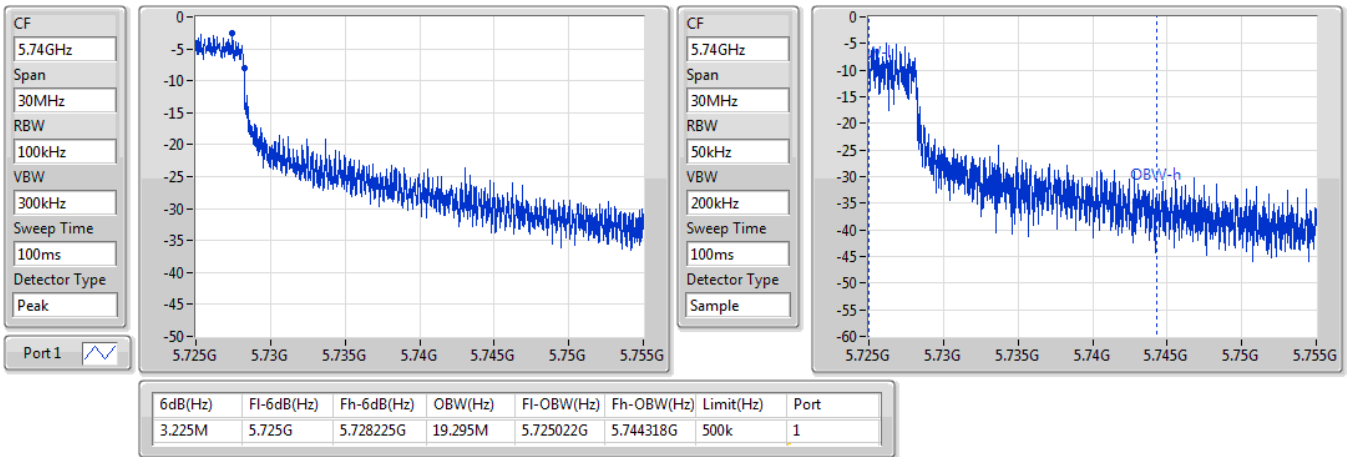


## 802.11ac VHT80\_Nss1,(MCS0)\_1TX

EBW

### 5690MHz Straddle 5.725-5.85GHz

11/11/2020





## Average Power\_Non-Beamforming\_Radio 1

## Appendix B.1

### Summary

| Mode                           | Total Power<br>(dBm) | Total Power<br>(W) | EIRP<br>(dBm) | EIRP<br>(W) |
|--------------------------------|----------------------|--------------------|---------------|-------------|
| 5.25-5.35GHz                   | -                    | -                  | -             | -           |
| 802.11a_Nss1,(6Mbps)_2TX       | 21.48                | 0.14060            | 25.83         | 0.38282     |
| 802.11n HT20_Nss1,(MCS0)_2TX   | 22.56                | 0.18030            | 26.91         | 0.49091     |
| 802.11n HT40_Nss1,(MCS0)_2TX   | 23.67                | 0.23281            | 28.02         | 0.63387     |
| 802.11ac VHT20_Nss1,(MCS0)_2TX | 22.60                | 0.18197            | 26.95         | 0.49545     |
| 802.11ac VHT40_Nss1,(MCS0)_2TX | 23.68                | 0.23335            | 28.03         | 0.63533     |
| 802.11ac VHT80_Nss1,(MCS0)_2TX | 22.31                | 0.17022            | 26.66         | 0.46345     |
| 802.11ax HEW20_Nss1,(MCS0)_2TX | 22.88                | 0.19409            | 27.23         | 0.52845     |
| 802.11ax HEW40_Nss1,(MCS0)_2TX | 23.72                | 0.23550            | 28.07         | 0.64121     |
| 802.11ax HEW80_Nss1,(MCS0)_2TX | 22.34                | 0.17140            | 26.69         | 0.46666     |
| 5.47-5.725GHz                  | -                    | -                  | -             | -           |
| 802.11a_Nss1,(6Mbps)_2TX       | 22.08                | 0.16144            | 26.43         | 0.43954     |
| 802.11n HT20_Nss1,(MCS0)_2TX   | 22.42                | 0.17458            | 26.77         | 0.47534     |
| 802.11n HT40_Nss1,(MCS0)_2TX   | 23.71                | 0.23496            | 28.06         | 0.63973     |
| 802.11ac VHT20_Nss1,(MCS0)_2TX | 22.45                | 0.17579            | 26.80         | 0.47863     |
| 802.11ac VHT40_Nss1,(MCS0)_2TX | 23.76                | 0.23768            | 28.11         | 0.64714     |
| 802.11ac VHT80_Nss1,(MCS0)_2TX | 23.68                | 0.23335            | 28.03         | 0.63533     |
| 802.11ax HEW20_Nss1,(MCS0)_2TX | 22.68                | 0.18535            | 27.03         | 0.50466     |
| 802.11ax HEW40_Nss1,(MCS0)_2TX | 23.81                | 0.24044            | 28.16         | 0.65464     |
| 802.11ax HEW80_Nss1,(MCS0)_2TX | 23.86                | 0.24322            | 28.21         | 0.66222     |
| 5.725-5.85GHz                  | -                    | -                  | -             | -           |
| 802.11a_Nss1,(6Mbps)_2TX       | 14.73                | 0.02972            | 19.08         | 0.08091     |
| 802.11n HT20_Nss1,(MCS0)_2TX   | 15.29                | 0.03381            | 19.64         | 0.09204     |
| 802.11n HT40_Nss1,(MCS0)_2TX   | 11.82                | 0.01521            | 16.17         | 0.04140     |
| 802.11ac VHT20_Nss1,(MCS0)_2TX | 15.41                | 0.03475            | 19.76         | 0.09462     |
| 802.11ac VHT40_Nss1,(MCS0)_2TX | 12.26                | 0.01683            | 16.61         | 0.04581     |
| 802.11ac VHT80_Nss1,(MCS0)_2TX | 7.75                 | 0.00596            | 12.10         | 0.01622     |
| 802.11ax HEW20_Nss1,(MCS0)_2TX | 15.90                | 0.03890            | 20.25         | 0.10593     |
| 802.11ax HEW40_Nss1,(MCS0)_2TX | 13.12                | 0.02051            | 17.47         | 0.05585     |
| 802.11ax HEW80_Nss1,(MCS0)_2TX | 8.35                 | 0.00684            | 12.70         | 0.01862     |

## Result

| Mode                           | Result | DG<br>(dBi) | Port 1<br>(dBm) | Port 2<br>(dBm) | Total Power<br>(dBm) | Power Limit<br>(dBm) | EIRP<br>(dBm) | EIRP Limit<br>(dBm) |
|--------------------------------|--------|-------------|-----------------|-----------------|----------------------|----------------------|---------------|---------------------|
| 802.11a_Nss1,(6Mbps)_2TX       | -      | -           | -               | -               | -                    | -                    | -             | -                   |
| 5260MHz                        | Pass   | 4.35        | 17.31           | 18.30           | 20.84                | 23.76                | 25.19         | 29.76               |
| 5300MHz                        | Pass   | 4.35        | 17.83           | 18.62           | 21.25                | 23.74                | 25.60         | 29.74               |
| 5320MHz                        | Pass   | 4.35        | 17.99           | 18.91           | 21.48                | 23.86                | 25.83         | 29.86               |
| 5500MHz                        | Pass   | 4.35        | 18.11           | 19.85           | 22.08                | 23.98                | 26.43         | 30.00               |
| 5580MHz                        | Pass   | 4.35        | 17.29           | 19.39           | 21.48                | 23.98                | 25.83         | 29.98               |
| 5700MHz                        | Pass   | 4.35        | 17.78           | 19.52           | 21.75                | 23.98                | 26.10         | 30.00               |
| 5720MHz Straddle 5.47-5.725GHz | Pass   | 4.35        | 17.70           | 18.57           | 21.17                | 22.81                | 25.52         | 28.81               |
| 5720MHz Straddle 5.725-5.85GHz | Pass   | 4.35        | 11.34           | 12.07           | 14.73                | 30.00                | 19.08         | 36.00               |
| 802.11n HT20_Nss1,(MCS0)_2TX   | -      | -           | -               | -               | -                    | -                    | -             | -                   |
| 5260MHz                        | Pass   | 4.35        | 18.60           | 19.34           | 22.00                | 23.98                | 26.35         | 30.00               |
| 5300MHz                        | Pass   | 4.35        | 18.59           | 19.48           | 22.07                | 23.98                | 26.42         | 30.00               |
| 5320MHz                        | Pass   | 4.35        | 19.11           | 19.94           | 22.56                | 23.98                | 26.91         | 30.00               |
| 5500MHz                        | Pass   | 4.35        | 18.46           | 20.19           | 22.42                | 23.98                | 26.77         | 30.00               |
| 5580MHz                        | Pass   | 4.35        | 18.04           | 19.74           | 21.98                | 23.98                | 26.33         | 30.00               |
| 5700MHz                        | Pass   | 4.35        | 18.22           | 20.07           | 22.25                | 23.98                | 26.60         | 30.00               |
| 5720MHz Straddle 5.47-5.725GHz | Pass   | 4.35        | 17.76           | 18.42           | 21.11                | 22.93                | 25.46         | 28.93               |
| 5720MHz Straddle 5.725-5.85GHz | Pass   | 4.35        | 11.83           | 12.68           | 15.29                | 30.00                | 19.64         | 36.00               |
| 802.11n HT40_Nss1,(MCS0)_2TX   | -      | -           | -               | -               | -                    | -                    | -             | -                   |
| 5270MHz                        | Pass   | 4.35        | 20.17           | 21.10           | 23.67                | 23.98                | 28.02         | 30.00               |
| 5310MHz                        | Pass   | 4.35        | 19.57           | 21.19           | 23.47                | 23.98                | 27.82         | 30.00               |
| 5510MHz                        | Pass   | 4.35        | 19.74           | 21.33           | 23.62                | 23.98                | 27.97         | 30.00               |
| 5550MHz                        | Pass   | 4.35        | 19.77           | 21.46           | 23.71                | 23.98                | 28.06         | 30.00               |
| 5670MHz                        | Pass   | 4.35        | 19.23           | 21.40           | 23.46                | 23.98                | 27.81         | 30.00               |
| 5710MHz Straddle 5.47-5.725GHz | Pass   | 4.35        | 19.56           | 20.99           | 23.34                | 23.98                | 27.69         | 30.00               |
| 5710MHz Straddle 5.725-5.85GHz | Pass   | 4.35        | 8.01            | 9.49            | 11.82                | 30.00                | 16.17         | 36.00               |
| 802.11ac VHT20_Nss1,(MCS0)_2TX | -      | -           | -               | -               | -                    | -                    | -             | -                   |
| 5260MHz                        | Pass   | 4.35        | 18.47           | 19.62           | 22.09                | 23.98                | 26.44         | 30.00               |
| 5300MHz                        | Pass   | 4.35        | 19.03           | 19.78           | 22.43                | 23.98                | 26.78         | 30.00               |
| 5320MHz                        | Pass   | 4.35        | 19.11           | 20.03           | 22.60                | 23.98                | 26.95         | 30.00               |
| 5500MHz                        | Pass   | 4.35        | 18.56           | 20.17           | 22.45                | 23.98                | 26.80         | 30.00               |
| 5580MHz                        | Pass   | 4.35        | 18.13           | 20.02           | 22.19                | 23.98                | 26.54         | 30.00               |
| 5700MHz                        | Pass   | 4.35        | 18.21           | 20.12           | 22.28                | 23.98                | 26.63         | 30.00               |
| 5720MHz Straddle 5.47-5.725GHz | Pass   | 4.35        | 17.95           | 18.72           | 21.36                | 22.84                | 25.71         | 28.84               |
| 5720MHz Straddle 5.725-5.85GHz | Pass   | 4.35        | 12.07           | 12.70           | 15.41                | 30.00                | 19.76         | 36.00               |
| 802.11ac VHT40_Nss1,(MCS0)_2TX | -      | -           | -               | -               | -                    | -                    | -             | -                   |
| 5270MHz                        | Pass   | 4.35        | 20.06           | 21.21           | 23.68                | 23.98                | 28.03         | 30.00               |
| 5310MHz                        | Pass   | 4.35        | 20.06           | 20.96           | 23.54                | 23.98                | 27.89         | 30.00               |
| 5510MHz                        | Pass   | 4.35        | 20.09           | 21.24           | 23.71                | 23.98                | 28.06         | 30.00               |
| 5550MHz                        | Pass   | 4.35        | 20.06           | 21.35           | 23.76                | 23.98                | 28.11         | 30.00               |
| 5670MHz                        | Pass   | 4.35        | 19.72           | 21.30           | 23.59                | 23.98                | 27.94         | 30.00               |
| 5710MHz Straddle 5.47-5.725GHz | Pass   | 4.35        | 20.01           | 21.19           | 23.65                | 23.98                | 28.00         | 30.00               |
| 5710MHz Straddle 5.725-5.85GHz | Pass   | 4.35        | 8.72            | 9.72            | 12.26                | 30.00                | 16.61         | 36.00               |
| 802.11ac VHT80_Nss1,(MCS0)_2TX | -      | -           | -               | -               | -                    | -                    | -             | -                   |
| 5290MHz                        | Pass   | 4.35        | 18.83           | 19.72           | 22.31                | 23.98                | 26.66         | 30.00               |
| 5530MHz                        | Pass   | 4.35        | 19.20           | 20.32           | 22.81                | 23.98                | 27.16         | 30.00               |
| 5610MHz                        | Pass   | 4.35        | 19.42           | 21.64           | 23.68                | 23.98                | 28.03         | 30.00               |
| 5690MHz Straddle 5.47-5.725GHz | Pass   | 4.35        | 19.33           | 21.54           | 23.58                | 23.98                | 27.93         | 30.00               |
| 5690MHz Straddle 5.725-5.85GHz | Pass   | 4.35        | 3.53            | 5.68            | 7.75                 | 30.00                | 12.10         | 36.00               |
| 802.11ax HEW20_Nss1,(MCS0)_2TX | -      | -           | -               | -               | -                    | -                    | -             | -                   |
| 5260MHz                        | Pass   | 4.35        | 19.25           | 19.84           | 22.57                | 23.98                | 26.92         | 30.00               |
| 5300MHz                        | Pass   | 4.35        | 19.30           | 20.06           | 22.71                | 23.98                | 27.06         | 30.00               |
| 5320MHz                        | Pass   | 4.35        | 19.39           | 20.30           | 22.88                | 23.98                | 27.23         | 30.00               |
| 5500MHz                        | Pass   | 4.35        | 18.74           | 20.44           | 22.68                | 23.98                | 27.03         | 30.00               |
| 5580MHz                        | Pass   | 4.35        | 18.22           | 20.39           | 22.45                | 23.98                | 26.80         | 30.00               |



## Average Power\_Non-Beamforming\_Radio 1

## Appendix B.1

| Mode                           | Result | DG<br>(dBi) | Port 1<br>(dBm) | Port 2<br>(dBm) | Total Power<br>(dBm) | Power Limit<br>(dBm) | EIRP<br>(dBm) | EIRP Limit<br>(dBm) |
|--------------------------------|--------|-------------|-----------------|-----------------|----------------------|----------------------|---------------|---------------------|
| 5700MHz                        | Pass   | 4.35        | 18.19           | 20.15           | 22.29                | 23.98                | 26.64         | 30.00               |
| 5720MHz Straddle 5.47-5.725GHz | Pass   | 4.35        | 18.14           | 18.95           | 21.57                | 22.94                | 25.92         | 28.94               |
| 5720MHz Straddle 5.725-5.85GHz | Pass   | 4.35        | 12.37           | 13.36           | 15.90                | 30.00                | 20.25         | 36.00               |
| 802.11ax HEW40_Nss1,(MCS0)_2TX | -      | -           | -               | -               | -                    | -                    | -             | -                   |
| 5270MHz                        | Pass   | 4.35        | 20.24           | 21.14           | 23.72                | 23.98                | 28.07         | 30.00               |
| 5310MHz                        | Pass   | 4.35        | 20.11           | 21.05           | 23.62                | 23.98                | 27.97         | 30.00               |
| 5510MHz                        | Pass   | 4.35        | 19.91           | 21.54           | 23.81                | 23.98                | 28.16         | 30.00               |
| 5550MHz                        | Pass   | 4.35        | 20.03           | 21.45           | 23.81                | 23.98                | 28.16         | 30.00               |
| 5670MHz                        | Pass   | 4.35        | 19.41           | 21.58           | 23.64                | 23.98                | 27.99         | 30.00               |
| 5710MHz Straddle 5.47-5.725GHz | Pass   | 4.35        | 20.01           | 21.20           | 23.66                | 23.98                | 28.01         | 30.00               |
| 5710MHz Straddle 5.725-5.85GHz | Pass   | 4.35        | 9.41            | 10.72           | 13.12                | 30.00                | 17.47         | 36.00               |
| 802.11ax HEW80_Nss1,(MCS0)_2TX | -      | -           | -               | -               | -                    | -                    | -             | -                   |
| 5290MHz                        | Pass   | 4.35        | 18.96           | 19.67           | 22.34                | 23.98                | 26.69         | 30.00               |
| 5530MHz                        | Pass   | 4.35        | 19.05           | 20.45           | 22.82                | 23.98                | 27.17         | 30.00               |
| 5610MHz                        | Pass   | 4.35        | 19.46           | 21.63           | 23.69                | 23.98                | 28.04         | 30.00               |
| 5690MHz Straddle 5.47-5.725GHz | Pass   | 4.35        | 19.62           | 21.80           | 23.86                | 23.98                | 28.21         | 30.00               |
| 5690MHz Straddle 5.725-5.85GHz | Pass   | 4.35        | 4.17            | 6.26            | 8.35                 | 30.00                | 12.70         | 36.00               |

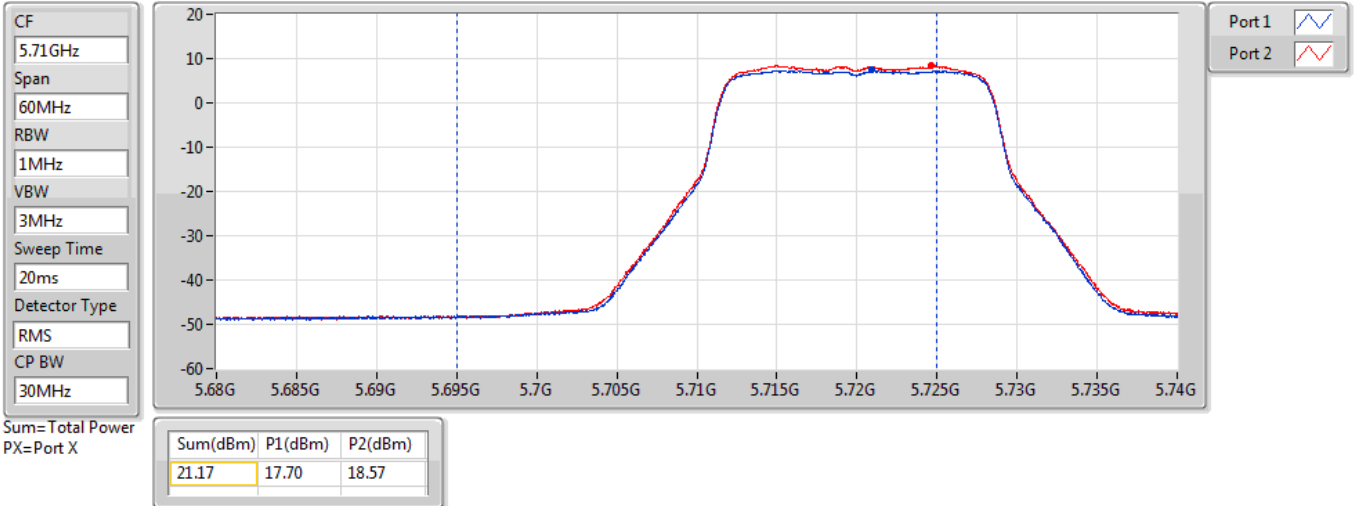
DG = Directional Gain; Port X = Port X output power

## 802.11a\_Nss1,(6Mbps)\_2TX

## AV Power

### 5720MHz Straddle 5.47-5.725GHz\_TnomVnom

24/12/2020

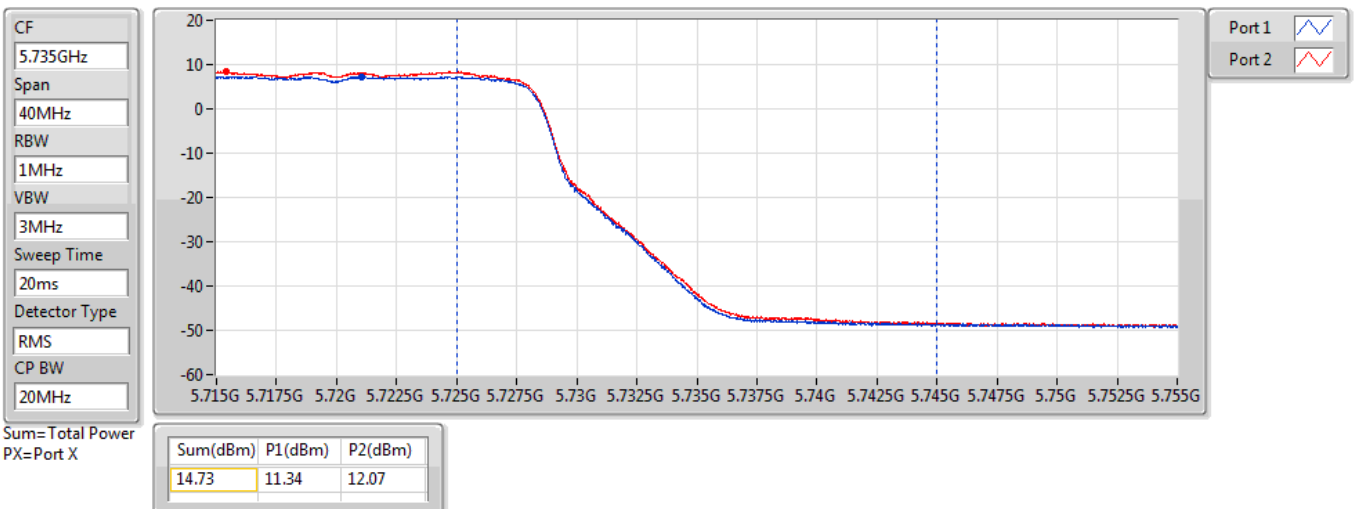


## 802.11a\_Nss1,(6Mbps)\_2TX

## AV Power

### 5720MHz Straddle 5.725-5.85GHz\_TnomVnom

24/12/2020

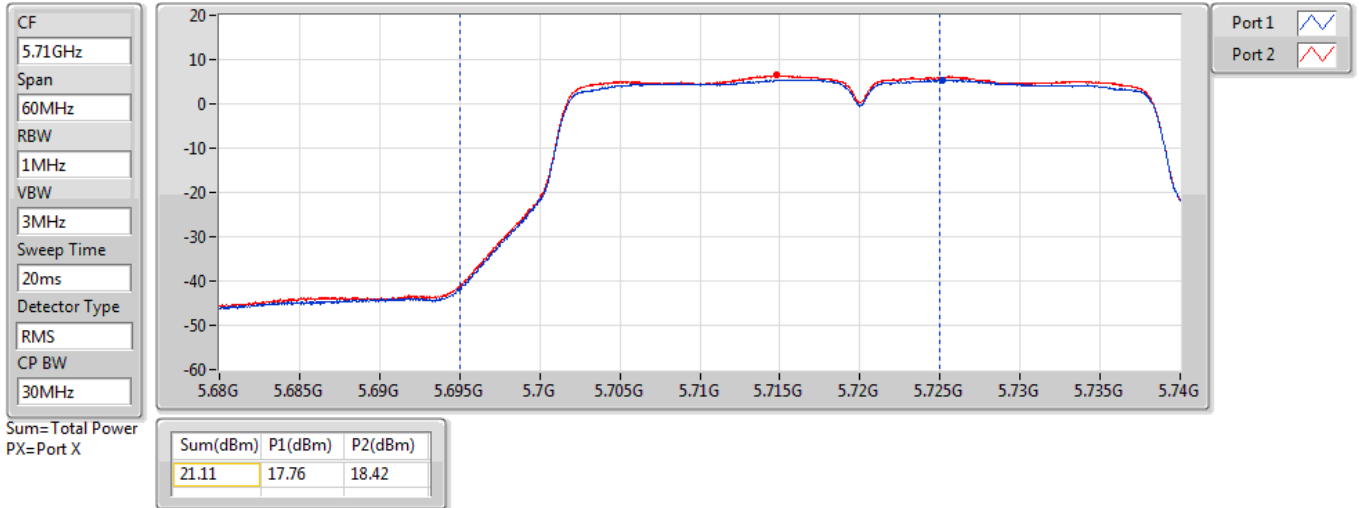


## 802.11n HT20\_Nss1,(MCS0)\_2TX

## AV Power

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24/12/2020

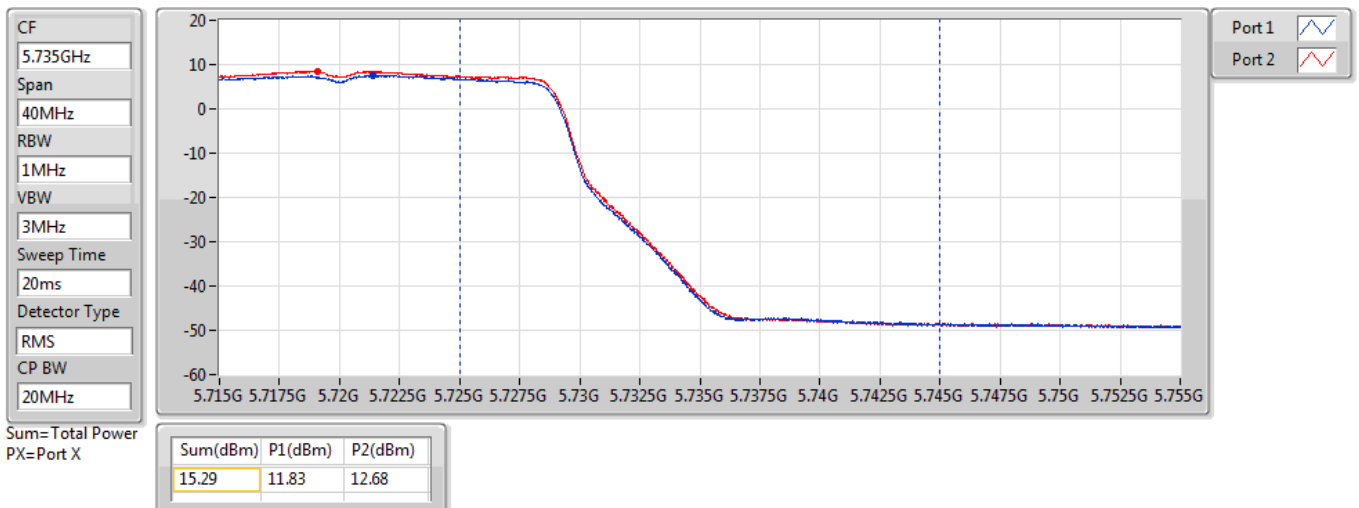


## 802.11n HT20\_Nss1,(MCS0)\_2TX

## AV Power

### 5720MHz Straddle 5.725-5.85GHz\_TnomVnom

24/12/2020

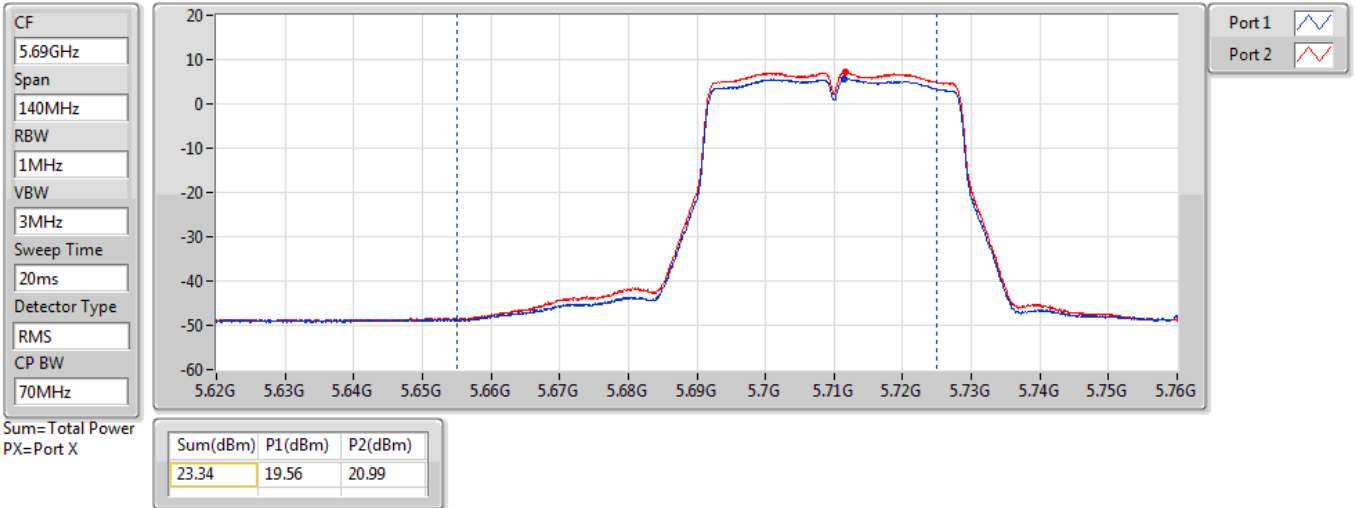


## 802.11n HT40\_Nss1,(MCS0)\_2TX

## AV Power

### 5710MHz Straddle 5.47-5.725GHz\_TnomVnom

24/12/2020

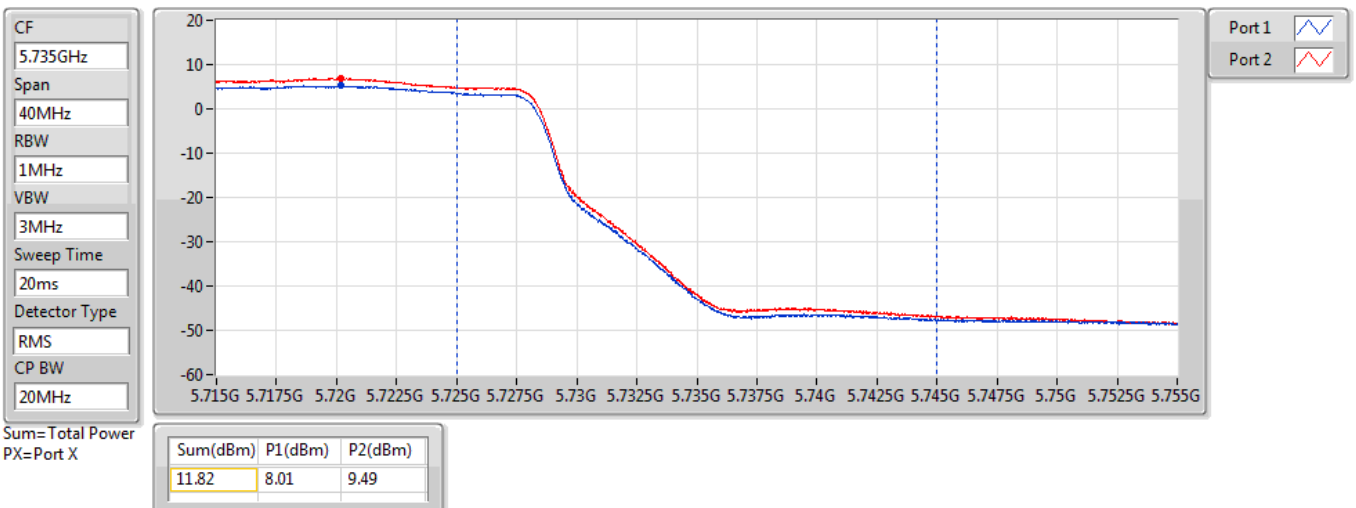


## 802.11n HT40\_Nss1,(MCS0)\_2TX

## AV Power

### 5710MHz Straddle 5.725-5.85GHz\_TnomVnom

24/12/2020



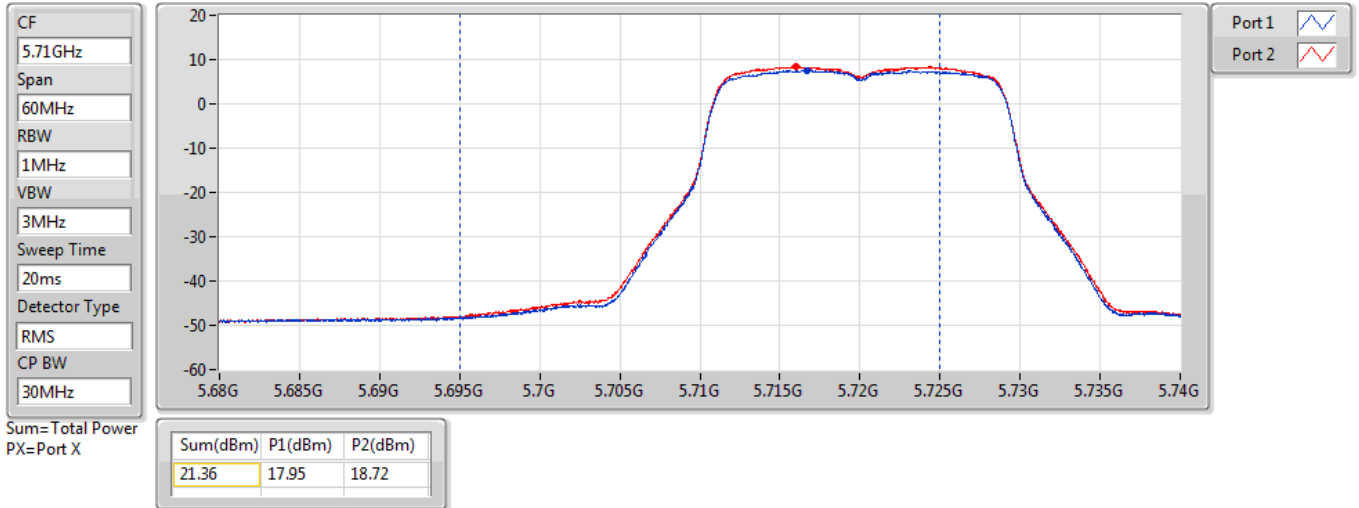


## 802.11ac VHT20\_Nss1,(MCS0)\_2TX

## AV Power

### 5720MHz Straddle 5.47-5.725GHz\_TnomVnom

24/12/2020

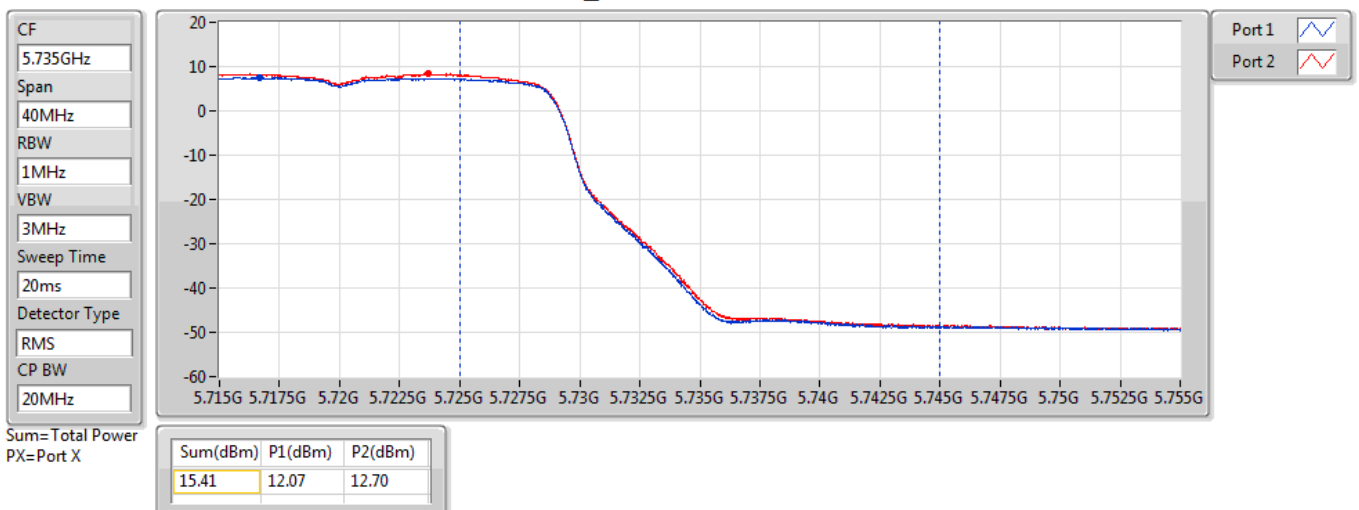


## 802.11ac VHT20\_Nss1,(MCS0)\_2TX

## AV Power

### 5720MHz Straddle 5.725-5.85GHz\_TnomVnom

24/12/2020

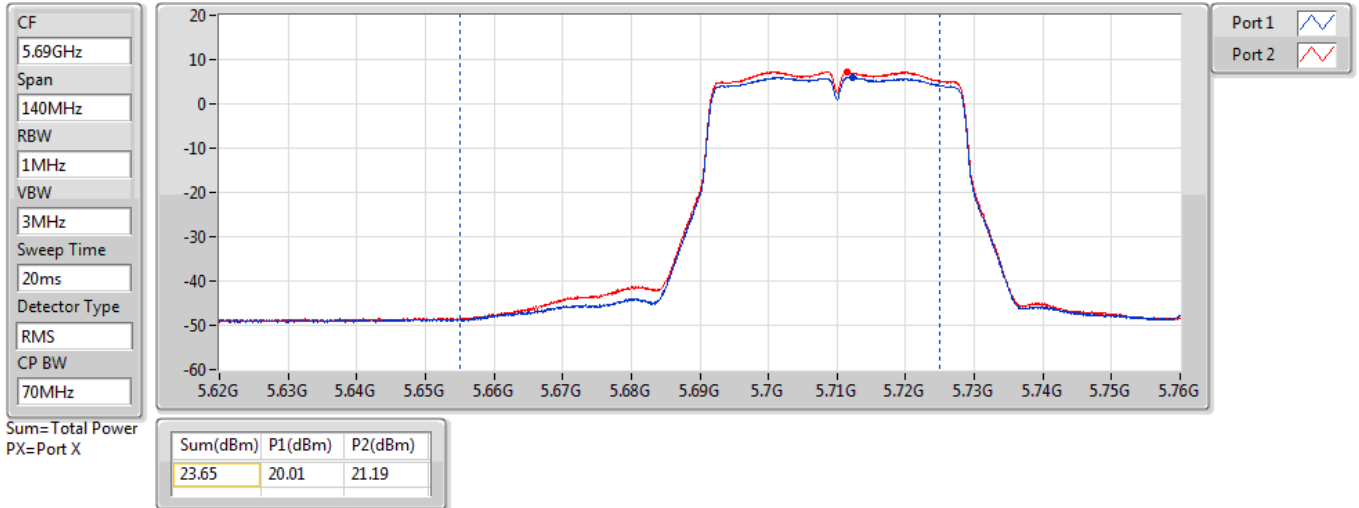


## 802.11ac VHT40\_Nss1,(MCS0)\_2TX

## AV Power

### 5710MHz Straddle 5.47-5.725GHz\_TnomVnom

24/12/2020

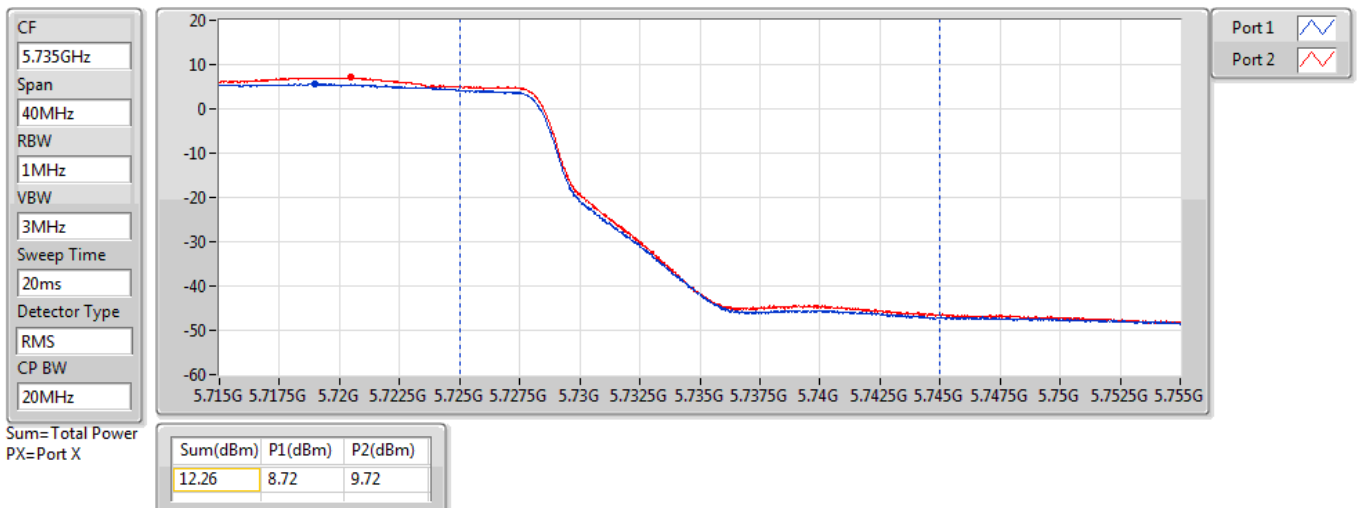


## 802.11ac VHT40\_Nss1,(MCS0)\_2TX

## AV Power

### 5710MHz Straddle 5.725-5.85GHz\_TnomVnom

24/12/2020

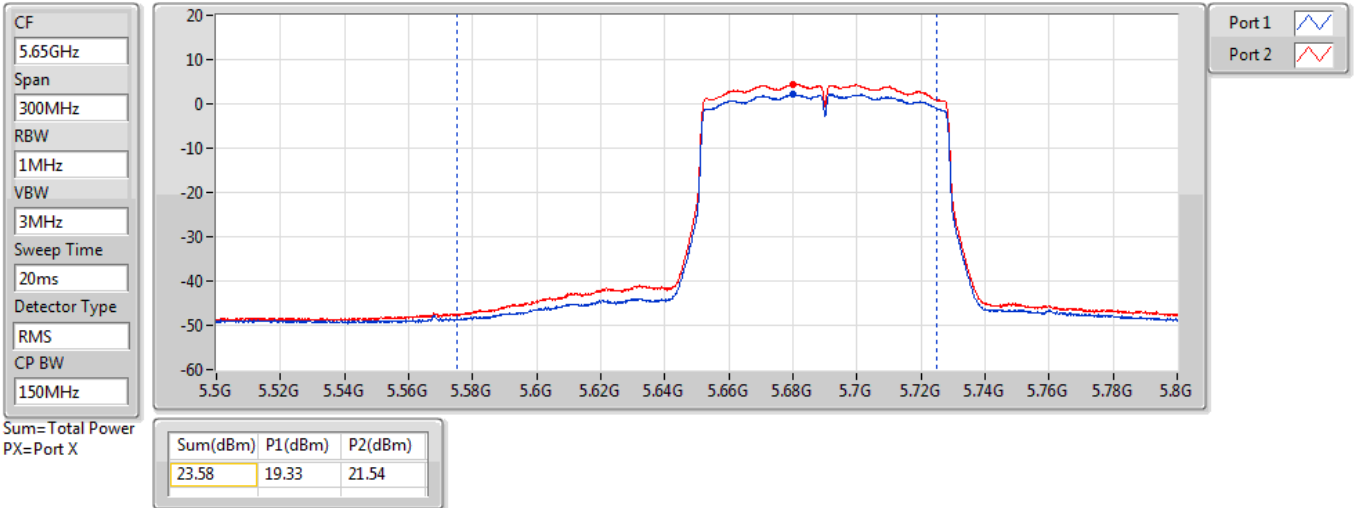


## 802.11ac VHT80\_Nss1,(MCS0)\_2TX

## AV Power

### 5690MHz Straddle 5.47-5.725GHz\_TnomVnom

24/12/2020

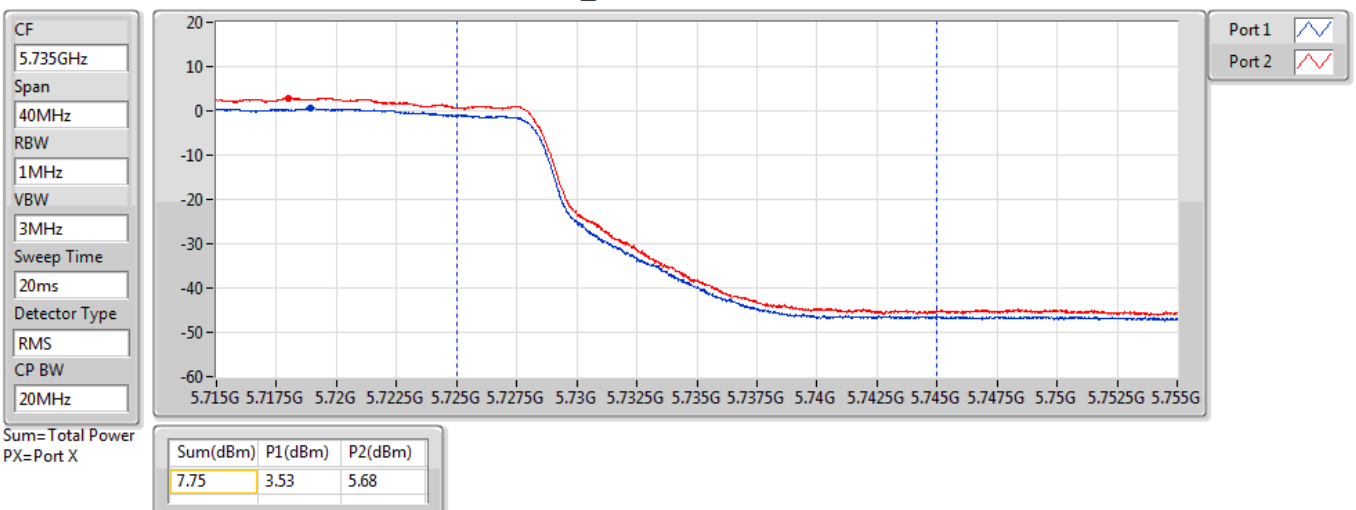


## 802.11ac VHT80\_Nss1,(MCS0)\_2TX

## AV Power

### 5690MHz Straddle 5.725-5.85GHz\_TnomVnom

24/12/2020

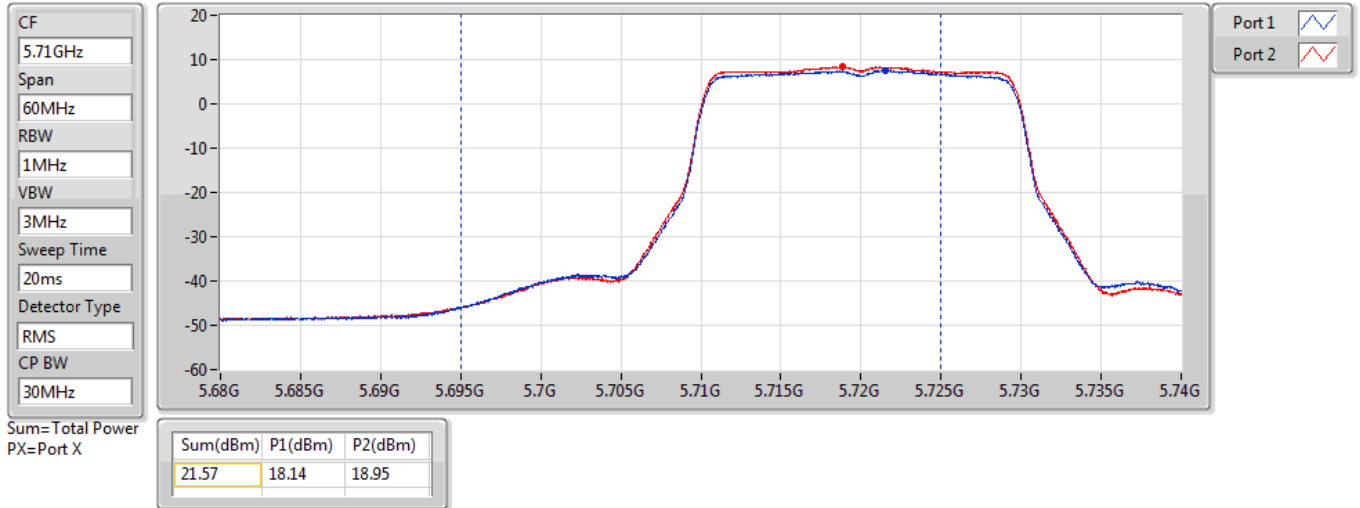


## 802.11ax HEW20\_Nss1,(MCS0)\_2TX

## AV Power

### 5720MHz Straddle 5.47-5.725GHz\_TnomVnom

24/12/2020

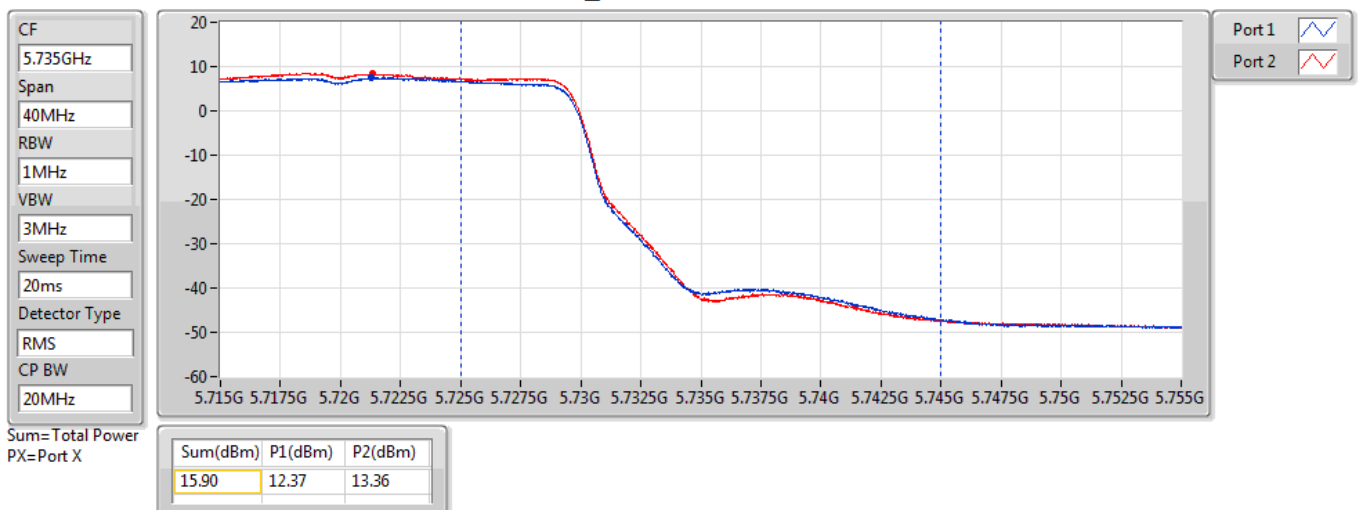


## 802.11ax HEW20\_Nss1,(MCS0)\_2TX

## AV Power

### 5720MHz Straddle 5.725-5.85GHz\_TnomVnom

24/12/2020

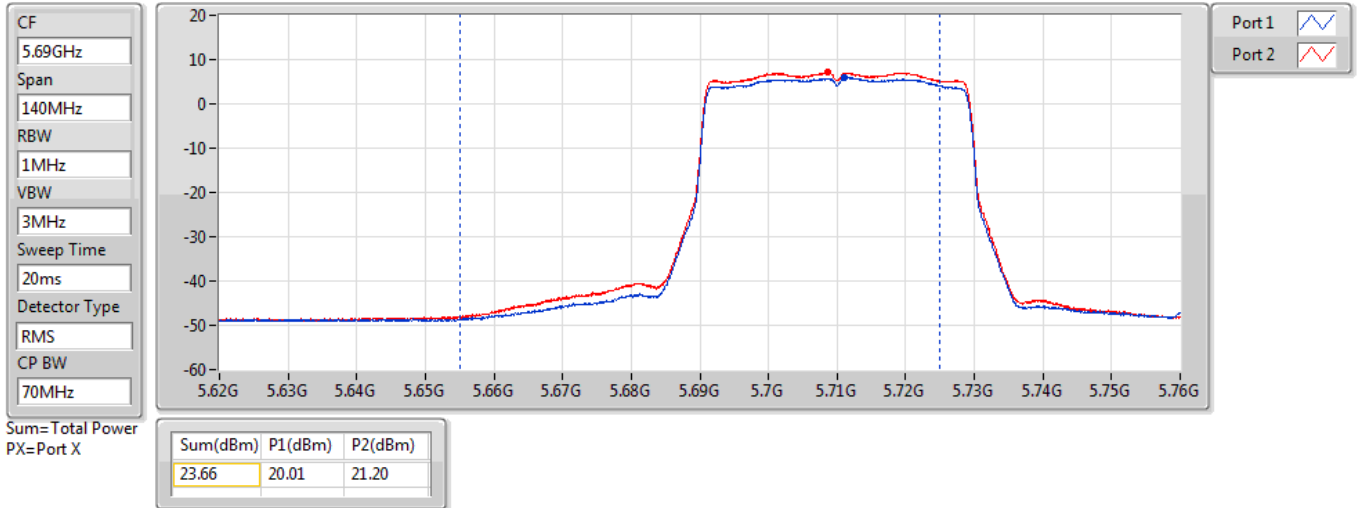


## 802.11ax HEW40\_Nss1,(MCS0)\_2TX

## AV Power

### 5710MHz Straddle 5.47-5.725GHz\_TnomVnom

24/12/2020

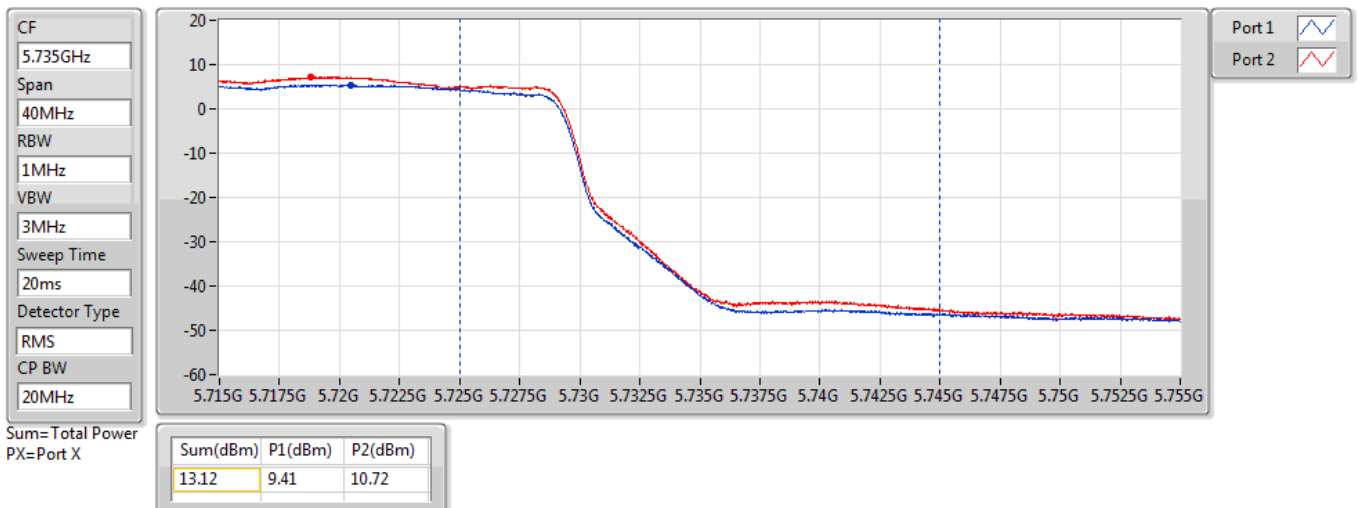


## 802.11ax HEW40\_Nss1,(MCS0)\_2TX

## AV Power

### 5710MHz Straddle 5.725-5.85GHz\_TnomVnom

24/12/2020

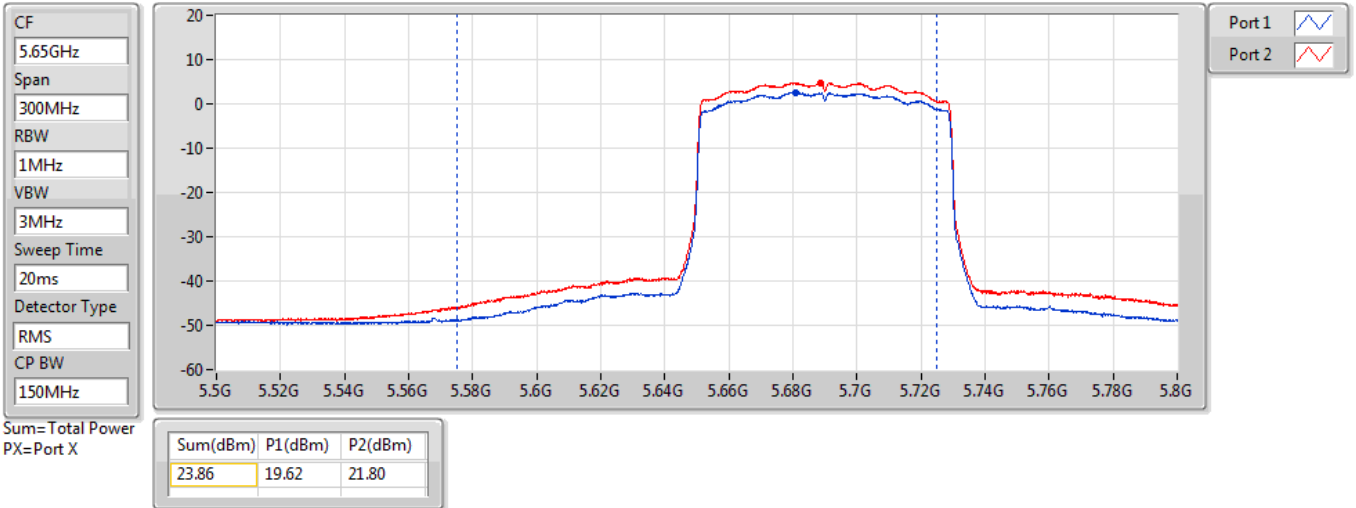


## 802.11ax HEW80\_Nss1,(MCS0)\_2TX

## AV Power

### 5690MHz Straddle 5.47-5.725GHz\_TnomVnom

24/12/2020

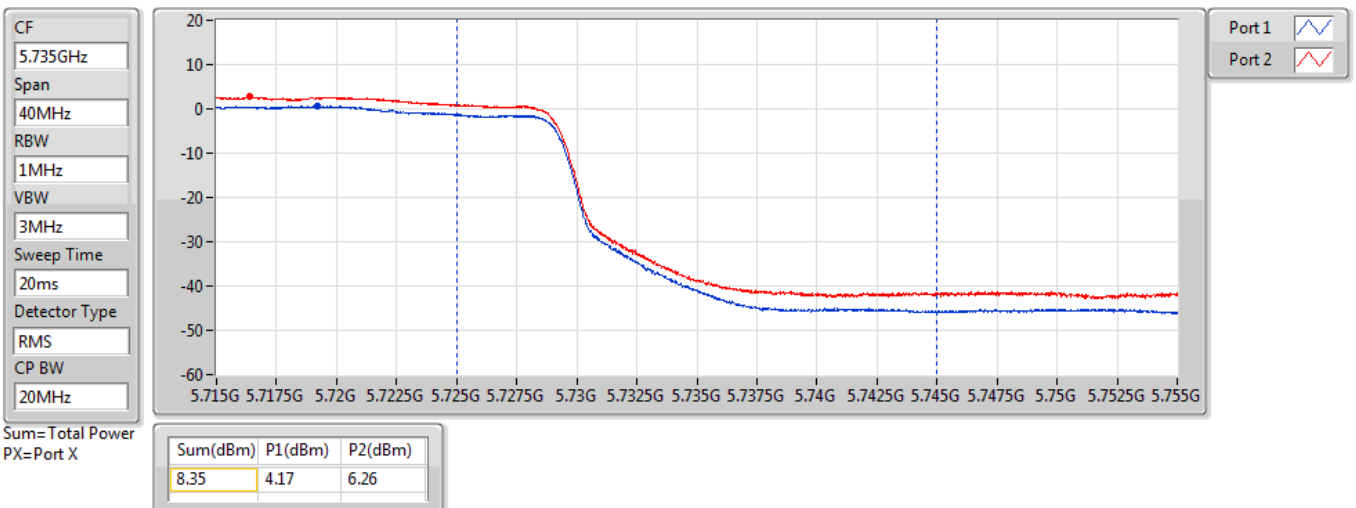


## 802.11ax HEW80\_Nss1,(MCS0)\_2TX

## AV Power

### 5690MHz Straddle 5.725-5.85GHz\_TnomVnom

24/12/2020





## Average Power\_Non-Beamforming\_Radio 2

## Appendix B.2

### Summary

| Mode                           | Total Power<br>(dBm) | Total Power<br>(W) | EIRP<br>(dBm) | EIRP<br>(W) |
|--------------------------------|----------------------|--------------------|---------------|-------------|
| 5.25-5.35GHz                   | -                    | -                  | -             | -           |
| 802.11a_Nss1,(6Mbps)_1TX       | 22.05                | 0.16032            | 26.21         | 0.41783     |
| 802.11n HT20_Nss1,(MCS0)_1TX   | 21.64                | 0.14588            | 25.80         | 0.38019     |
| 802.11n HT40_Nss1,(MCS0)_1TX   | 21.03                | 0.12677            | 25.19         | 0.33037     |
| 802.11ac VHT20_Nss1,(MCS0)_1TX | 21.71                | 0.14825            | 25.87         | 0.38637     |
| 802.11ac VHT40_Nss1,(MCS0)_1TX | 21.56                | 0.14322            | 25.72         | 0.37325     |
| 802.11ac VHT80_Nss1,(MCS0)_1TX | 11.21                | 0.01321            | 15.37         | 0.03443     |
| 5.47-5.725GHz                  | -                    | -                  | -             | -           |
| 802.11a_Nss1,(6Mbps)_1TX       | 21.45                | 0.13964            | 25.61         | 0.36392     |
| 802.11n HT20_Nss1,(MCS0)_1TX   | 21.15                | 0.13032            | 25.31         | 0.33963     |
| 802.11n HT40_Nss1,(MCS0)_1TX   | 20.70                | 0.11749            | 24.86         | 0.30620     |
| 802.11ac VHT20_Nss1,(MCS0)_1TX | 21.29                | 0.13459            | 25.45         | 0.35075     |
| 802.11ac VHT40_Nss1,(MCS0)_1TX | 21.17                | 0.13092            | 25.33         | 0.34119     |
| 802.11ac VHT80_Nss1,(MCS0)_1TX | 19.09                | 0.08110            | 23.25         | 0.21135     |
| 5.725-5.85GHz                  | -                    | -                  | -             | -           |
| 802.11a_Nss1,(6Mbps)_1TX       | 12.80                | 0.01905            | 16.96         | 0.04966     |
| 802.11n HT20_Nss1,(MCS0)_1TX   | 12.74                | 0.01879            | 16.90         | 0.04898     |
| 802.11n HT40_Nss1,(MCS0)_1TX   | 7.92                 | 0.00619            | 12.08         | 0.01614     |
| 802.11ac VHT20_Nss1,(MCS0)_1TX | 12.81                | 0.01910            | 16.97         | 0.04977     |
| 802.11ac VHT40_Nss1,(MCS0)_1TX | 7.93                 | 0.00621            | 12.09         | 0.01618     |
| 802.11ac VHT80_Nss1,(MCS0)_1TX | 4.54                 | 0.00284            | 8.70          | 0.00741     |

## Result

| Mode                           | Result | DG (dBi) | Port 1 (dBm) | Total Power (dBm) | Power Limit (dBm) | EIRP (dBm) | EIRP Limit (dBm) |
|--------------------------------|--------|----------|--------------|-------------------|-------------------|------------|------------------|
| 802.11a_Nss1,(6Mbps)_1TX       | -      | -        | -            | -                 | -                 | -          | -                |
| 5260MHz                        | Pass   | 4.16     | 20.91        | 20.91             | 23.98             | 25.07      | 30.00            |
| 5300MHz                        | Pass   | 4.16     | 22.05        | 22.05             | 23.98             | 26.21      | 30.00            |
| 5320MHz                        | Pass   | 4.16     | 20.04        | 20.04             | 23.98             | 24.20      | 30.00            |
| 5500MHz                        | Pass   | 4.16     | 19.26        | 19.26             | 23.98             | 23.42      | 30.00            |
| 5580MHz                        | Pass   | 4.16     | 21.45        | 21.45             | 23.98             | 25.61      | 30.00            |
| 5700MHz                        | Pass   | 4.16     | 19.08        | 19.08             | 23.98             | 23.24      | 30.00            |
| 5720MHz Straddle 5.47-5.725GHz | Pass   | 4.16     | 18.85        | 18.85             | 23.88             | 23.01      | 29.88            |
| 5720MHz Straddle 5.725-5.85GHz | Pass   | 4.16     | 12.80        | 12.80             | 30.00             | 16.96      | 36.00            |
| 802.11n HT20_Nss1,(MCS0)_1TX   | -      | -        | -            | -                 | -                 | -          | -                |
| 5260MHz                        | Pass   | 4.16     | 20.88        | 20.88             | 23.98             | 25.04      | 30.00            |
| 5300MHz                        | Pass   | 4.16     | 21.64        | 21.64             | 23.98             | 25.80      | 30.00            |
| 5320MHz                        | Pass   | 4.16     | 19.25        | 19.25             | 23.98             | 23.41      | 30.00            |
| 5500MHz                        | Pass   | 4.16     | 18.67        | 18.67             | 23.98             | 22.83      | 30.00            |
| 5580MHz                        | Pass   | 4.16     | 21.15        | 21.15             | 23.98             | 25.31      | 30.00            |
| 5700MHz                        | Pass   | 4.16     | 18.92        | 18.92             | 23.98             | 23.08      | 30.00            |
| 5720MHz Straddle 5.47-5.725GHz | Pass   | 4.16     | 17.92        | 17.92             | 23.59             | 22.08      | 29.59            |
| 5720MHz Straddle 5.725-5.85GHz | Pass   | 4.16     | 12.74        | 12.74             | 30.00             | 16.90      | 36.00            |
| 802.11n HT40_Nss1,(MCS0)_1TX   | -      | -        | -            | -                 | -                 | -          | -                |
| 5270MHz                        | Pass   | 4.16     | 21.03        | 21.03             | 23.98             | 25.19      | 30.00            |
| 5310MHz                        | Pass   | 4.16     | 18.37        | 18.37             | 23.98             | 22.53      | 30.00            |
| 5510MHz                        | Pass   | 4.16     | 16.82        | 16.82             | 23.98             | 20.98      | 30.00            |
| 5550MHz                        | Pass   | 4.16     | 20.70        | 20.70             | 23.98             | 24.86      | 30.00            |
| 5670MHz                        | Pass   | 4.16     | 19.09        | 19.09             | 23.98             | 23.25      | 30.00            |
| 5710MHz Straddle 5.47-5.725GHz | Pass   | 4.16     | 18.52        | 18.52             | 23.98             | 22.68      | 30.00            |
| 5710MHz Straddle 5.725-5.85GHz | Pass   | 4.16     | 7.92         | 7.92              | 30.00             | 12.08      | 36.00            |
| 802.11ac VHT20_Nss1,(MCS0)_1TX | -      | -        | -            | -                 | -                 | -          | -                |
| 5260MHz                        | Pass   | 4.16     | 20.90        | 20.90             | 23.98             | 25.06      | 30.00            |
| 5300MHz                        | Pass   | 4.16     | 21.71        | 21.71             | 23.98             | 25.87      | 30.00            |
| 5320MHz                        | Pass   | 4.16     | 19.32        | 19.32             | 23.98             | 23.48      | 30.00            |
| 5500MHz                        | Pass   | 4.16     | 18.79        | 18.79             | 23.98             | 22.95      | 30.00            |
| 5580MHz                        | Pass   | 4.16     | 21.29        | 21.29             | 23.98             | 25.45      | 30.00            |
| 5700MHz                        | Pass   | 4.16     | 19.01        | 19.01             | 23.98             | 23.17      | 30.00            |
| 5720MHz Straddle 5.47-5.725GHz | Pass   | 4.16     | 18.30        | 18.30             | 23.73             | 22.46      | 29.73            |
| 5720MHz Straddle 5.725-5.85GHz | Pass   | 4.16     | 12.81        | 12.81             | 30.00             | 16.97      | 36.00            |
| 802.11ac VHT40_Nss1,(MCS0)_1TX | -      | -        | -            | -                 | -                 | -          | -                |
| 5270MHz                        | Pass   | 4.16     | 21.56        | 21.56             | 23.98             | 25.72      | 30.00            |
| 5310MHz                        | Pass   | 4.16     | 18.67        | 18.67             | 23.98             | 22.83      | 30.00            |
| 5510MHz                        | Pass   | 4.16     | 17.48        | 17.48             | 23.98             | 21.64      | 30.00            |
| 5550MHz                        | Pass   | 4.16     | 21.17        | 21.17             | 23.98             | 25.33      | 30.00            |
| 5670MHz                        | Pass   | 4.16     | 19.11        | 19.11             | 23.98             | 23.27      | 30.00            |
| 5710MHz Straddle 5.47-5.725GHz | Pass   | 4.16     | 18.54        | 18.54             | 23.98             | 22.70      | 30.00            |
| 5710MHz Straddle 5.725-5.85GHz | Pass   | 4.16     | 7.93         | 7.93              | 30.00             | 12.09      | 36.00            |
| 802.11ac VHT80_Nss1,(MCS0)_1TX | -      | -        | -            | -                 | -                 | -          | -                |
| 5290MHz                        | Pass   | 4.16     | 11.21        | 11.21             | 23.98             | 15.37      | 30.00            |
| 5530MHz                        | Pass   | 4.16     | 11.32        | 11.32             | 23.98             | 15.48      | 30.00            |
| 5610MHz                        | Pass   | 4.16     | 18.74        | 18.74             | 23.98             | 22.90      | 30.00            |
| 5690MHz Straddle 5.47-5.725GHz | Pass   | 4.16     | 19.09        | 19.09             | 23.98             | 23.25      | 30.00            |
| 5690MHz Straddle 5.725-5.85GHz | Pass   | 4.16     | 4.54         | 4.54              | 30.00             | 8.70       | 36.00            |

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

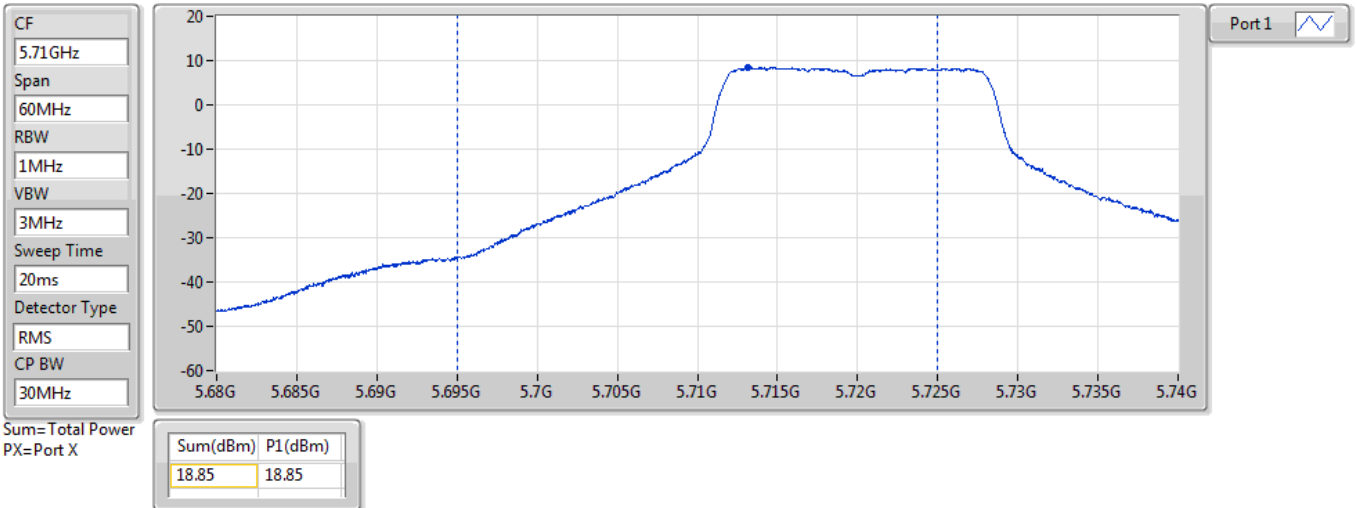


## 802.11a\_Nss1,(6Mbps)\_1TX

## AV Power

### 5720MHz Straddle 5.47-5.725GHz\_TnomVnom

11/11/2020

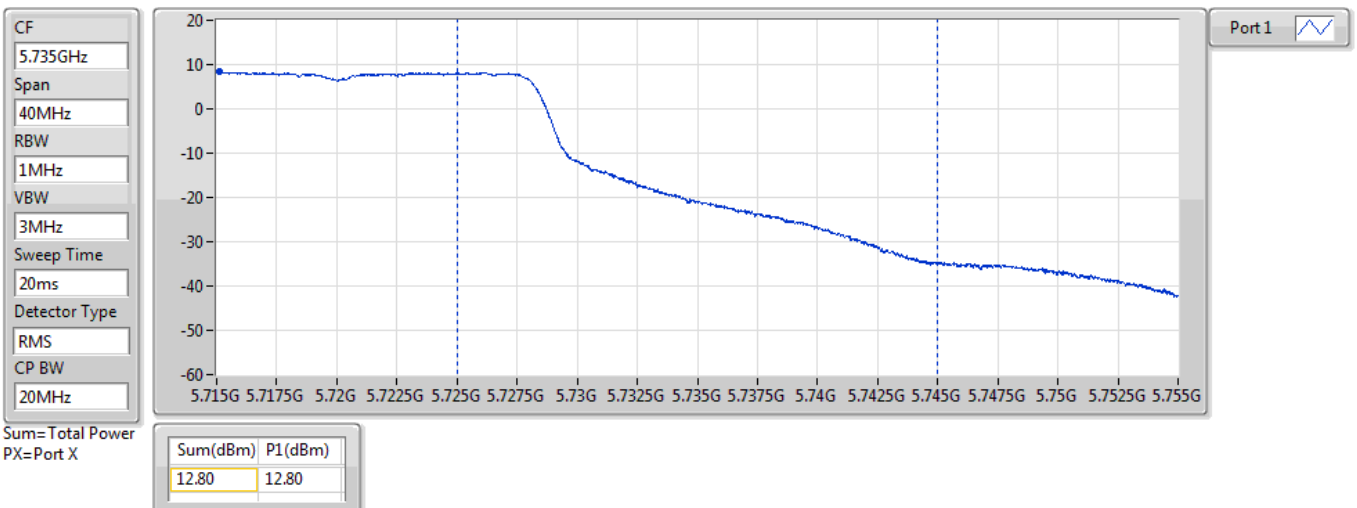


## 802.11a\_Nss1,(6Mbps)\_1TX

## AV Power

### 5720MHz Straddle 5.725-5.85GHz\_TnomVnom

11/11/2020

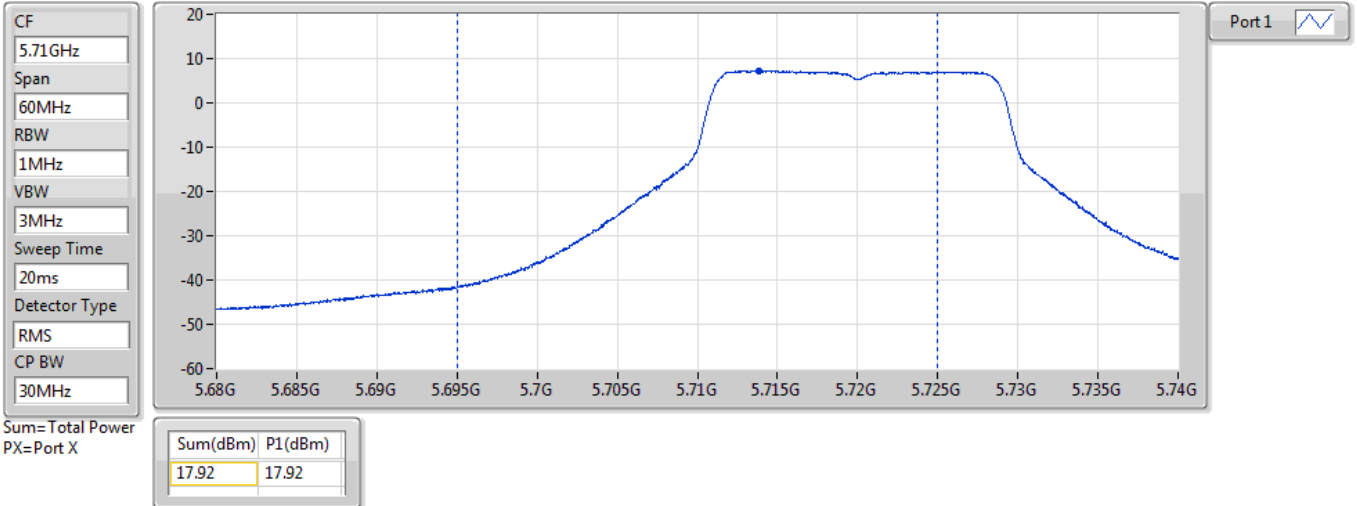


## 802.11n HT20\_Nss1,(MCS0)\_1TX

## AV Power

### 5720MHz Straddle 5.47-5.725GHz\_TnomVnom

24/12/2020

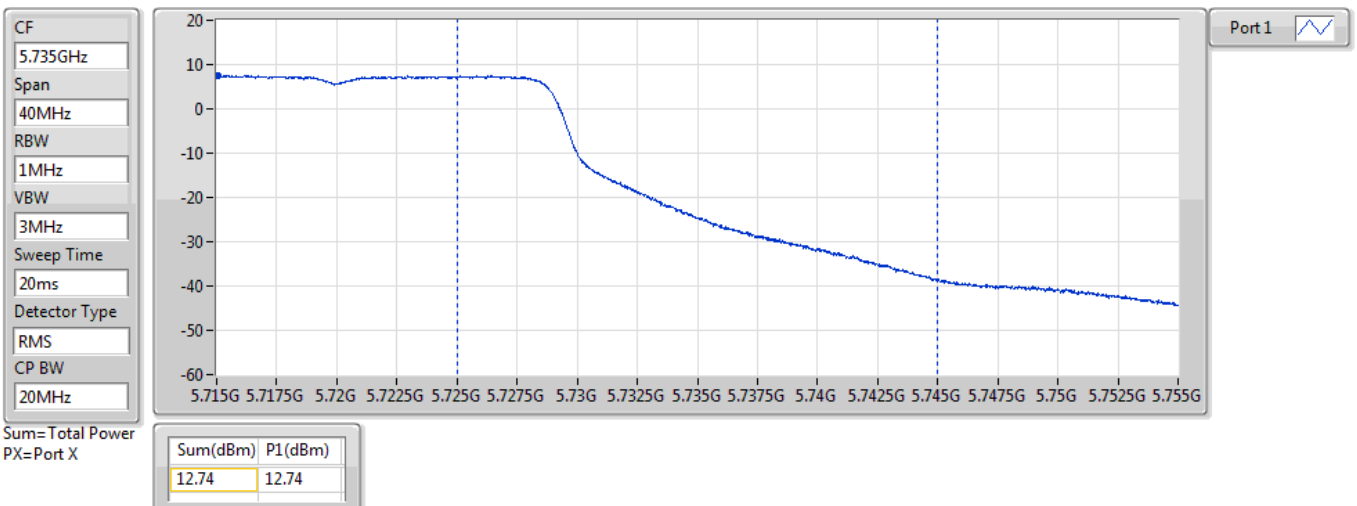


## 802.11n HT20\_Nss1,(MCS0)\_1TX

## AV Power

### 5720MHz Straddle 5.725-5.85GHz\_TnomVnom

24/12/2020

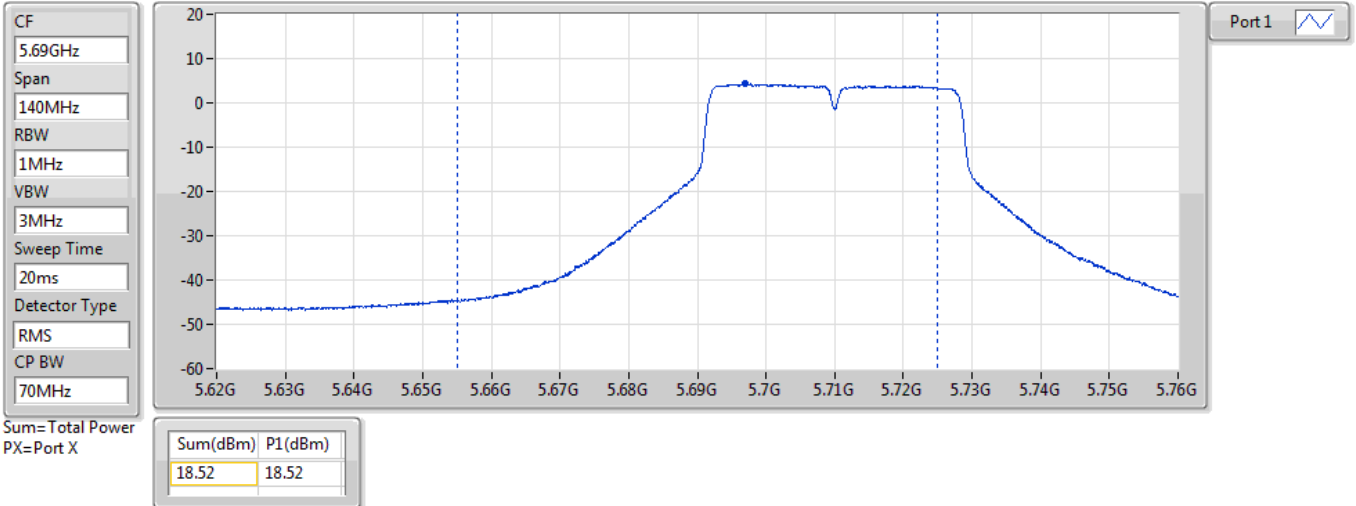


## 802.11n HT40\_Nss1,(MCS0)\_1TX

## AV Power

### 5710MHz Straddle 5.47-5.725GHz\_TnomVnom

24/12/2020

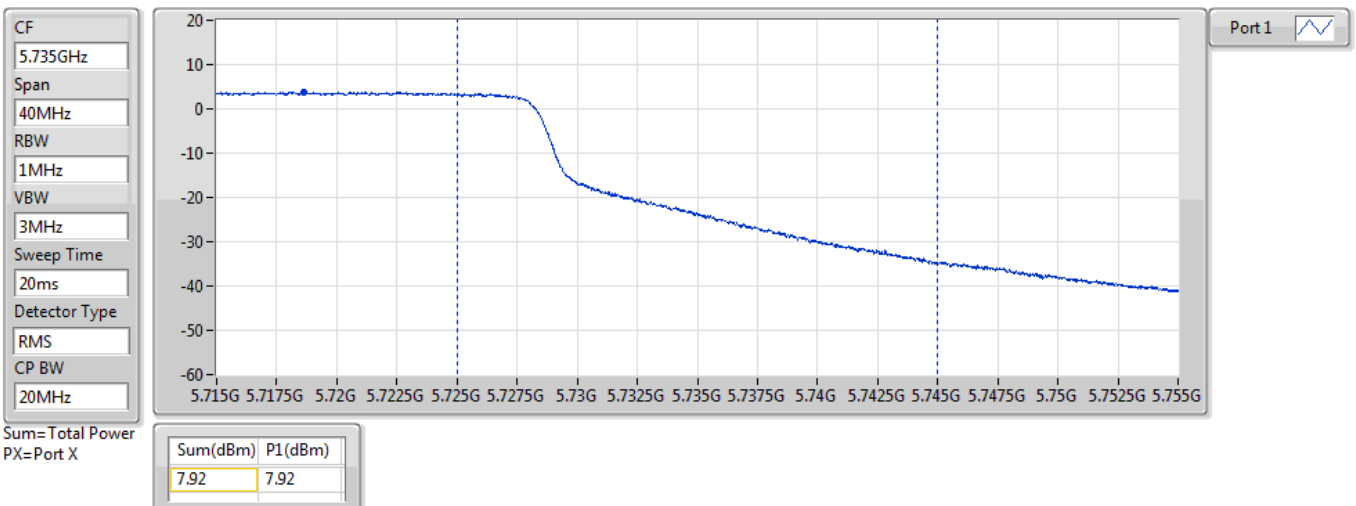


## 802.11n HT40\_Nss1,(MCS0)\_1TX

## AV Power

### 5710MHz Straddle 5.725-5.85GHz\_TnomVnom

24/12/2020

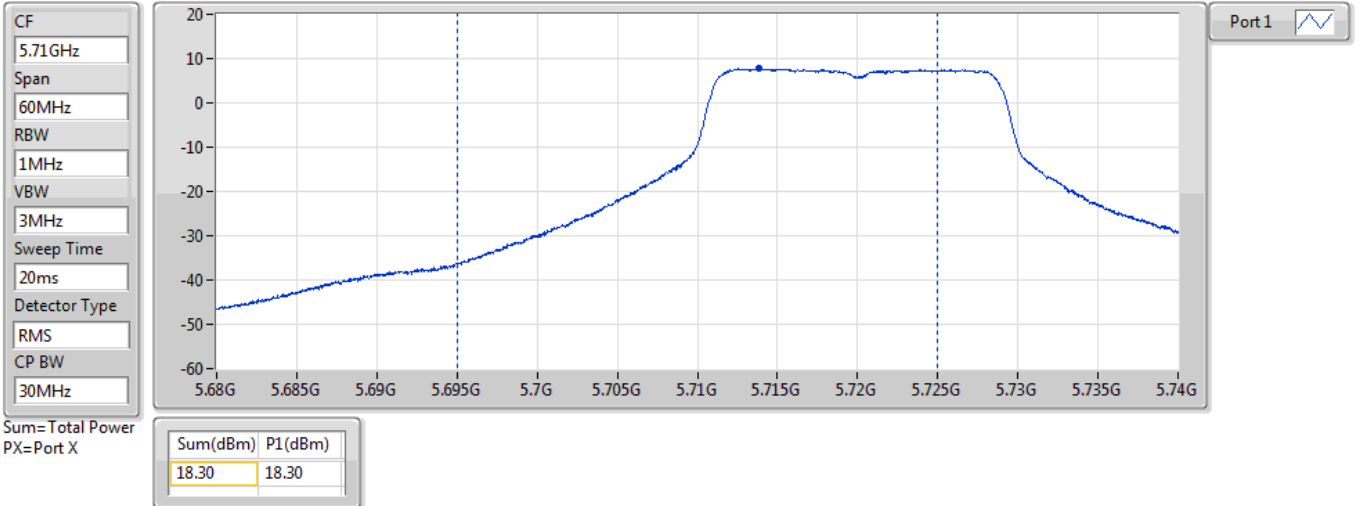


## 802.11ac VHT20\_Nss1,(MCS0)\_1TX

## AV Power

### 5720MHz Straddle 5.47-5.725GHz\_TnomVnom

11/11/2020

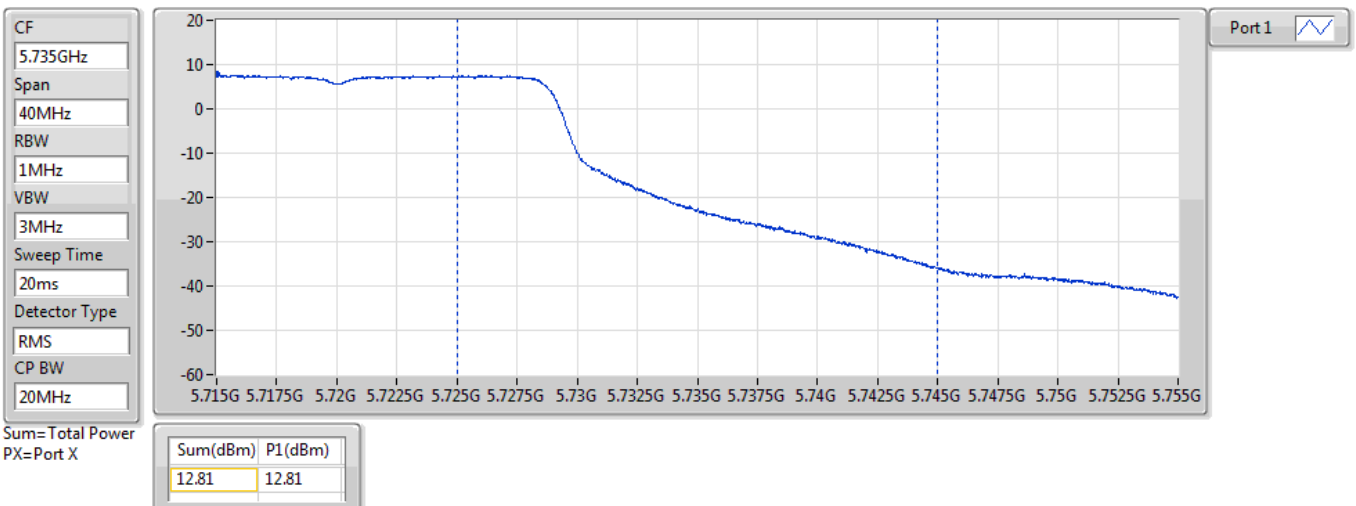


## 802.11ac VHT20\_Nss1,(MCS0)\_1TX

## AV Power

### 5720MHz Straddle 5.725-5.85GHz\_TnomVnom

11/11/2020

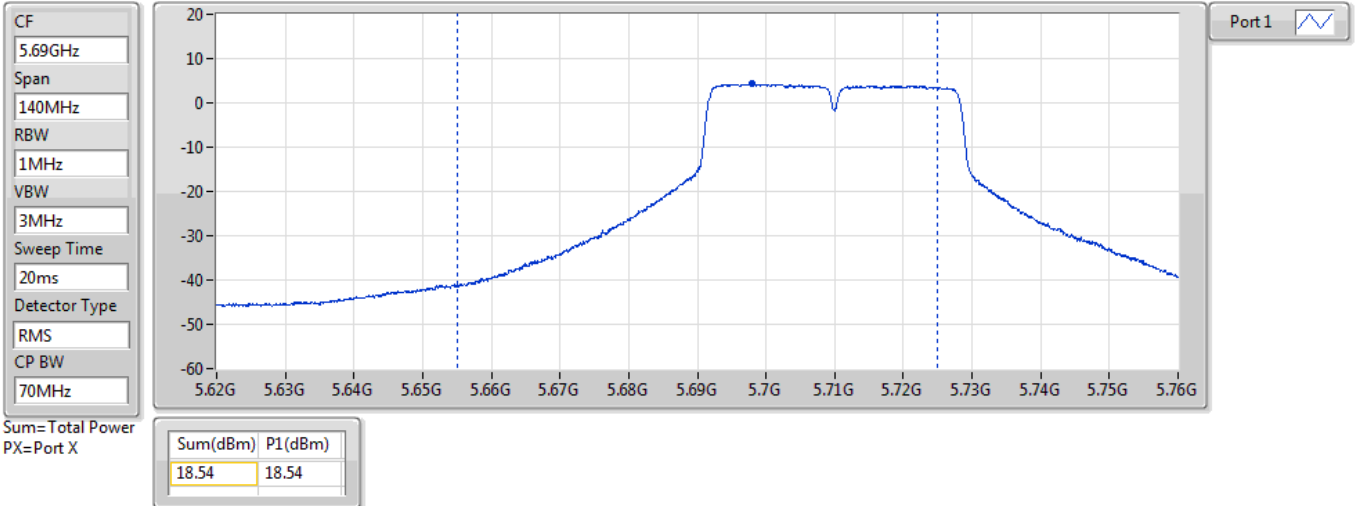


## 802.11ac VHT40\_Nss1,(MCS0)\_1TX

## AV Power

### 5710MHz Straddle 5.47-5.725GHz\_TnomVnom

11/11/2020

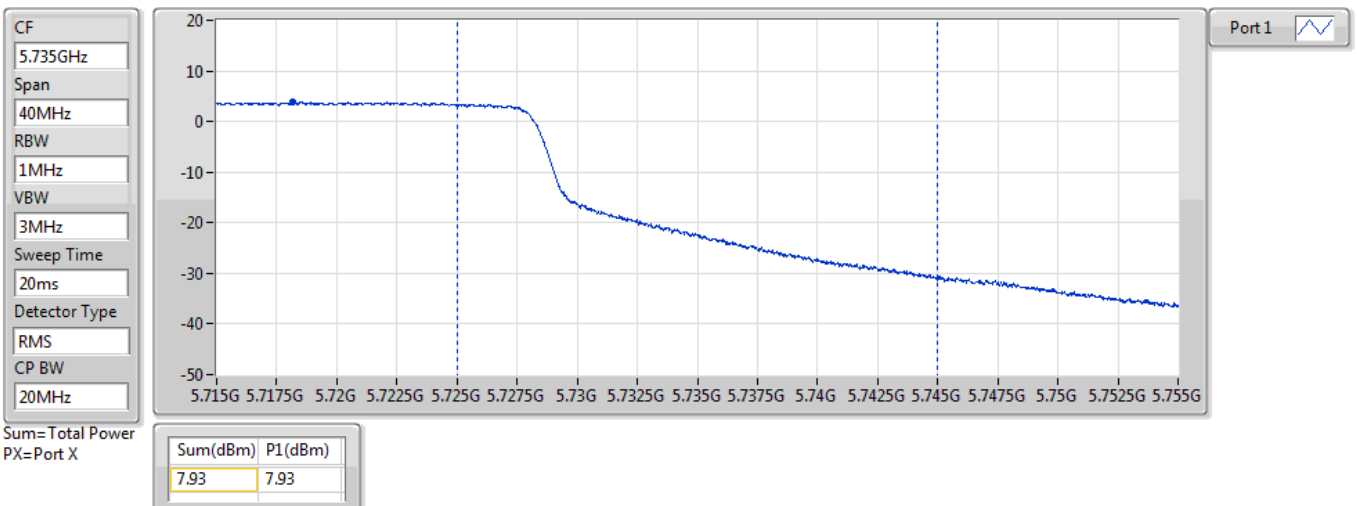


## 802.11ac VHT40\_Nss1,(MCS0)\_1TX

## AV Power

### 5710MHz Straddle 5.725-5.85GHz\_TnomVnom

11/11/2020

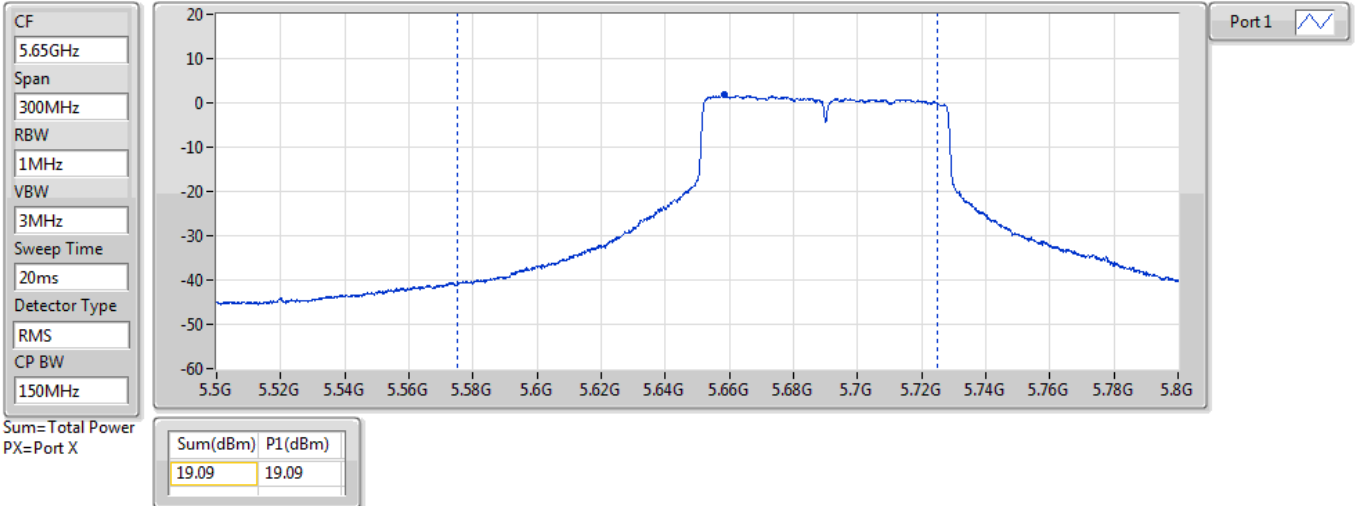


## 802.11ac VHT80\_Nss1,(MCS0)\_1TX

## AV Power

### 5690MHz Straddle 5.47-5.725GHz\_TnomVnom

11/11/2020

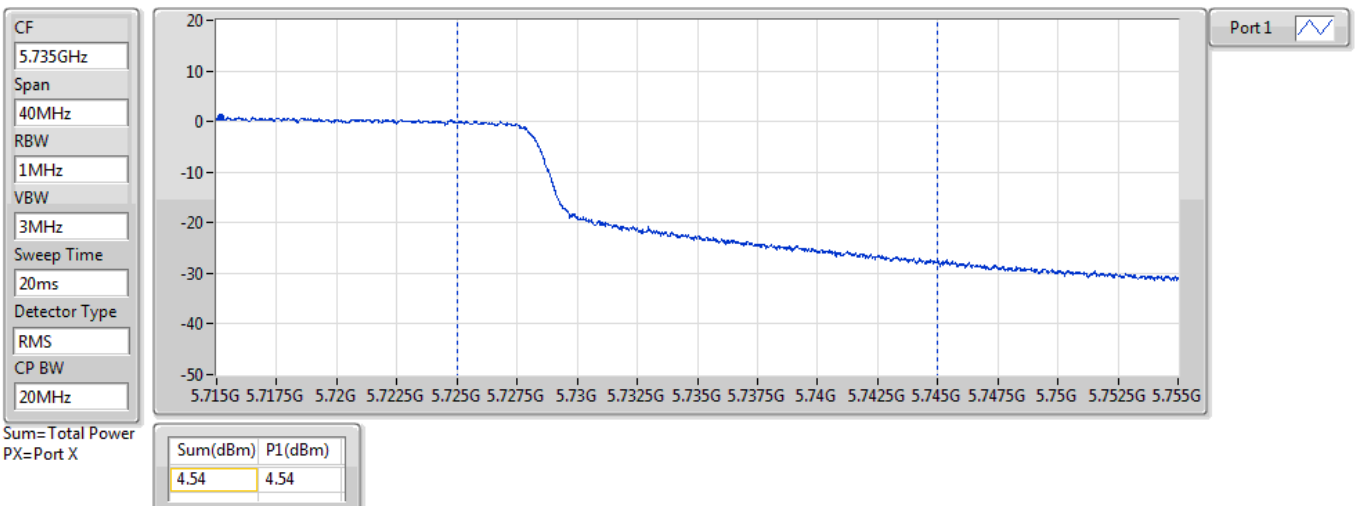


## 802.11ac VHT80\_Nss1,(MCS0)\_1TX

## AV Power

### 5690MHz Straddle 5.725-5.85GHz\_TnomVnom

11/11/2020



## Summary

| Mode                              | Total Power<br>(dBm) | Total Power<br>(W) | EIRP<br>(dBm) | EIRP<br>(W) |
|-----------------------------------|----------------------|--------------------|---------------|-------------|
| 5.25-5.35GHz                      | -                    | -                  | -             | -           |
| 802.11ax HEW20-BF_Nss1,(MCS0)_2TX | 22.61                | 0.18239            | 29.97         | 0.99312     |
| 802.11ax HEW40-BF_Nss1,(MCS0)_2TX | 22.51                | 0.17824            | 29.87         | 0.97051     |
| 802.11ax HEW80-BF_Nss1,(MCS0)_2TX | 22.34                | 0.17140            | 29.70         | 0.93325     |
| 5.47-5.725GHz                     | -                    | -                  | -             | -           |
| 802.11ax HEW20-BF_Nss1,(MCS0)_2TX | 22.57                | 0.18072            | 29.93         | 0.98401     |
| 802.11ax HEW40-BF_Nss1,(MCS0)_2TX | 22.60                | 0.18197            | 29.96         | 0.99083     |
| 802.11ax HEW80-BF_Nss1,(MCS0)_2TX | 22.58                | 0.18113            | 29.94         | 0.98628     |
| 5.725-5.85GHz                     | -                    | -                  | -             | -           |
| 802.11ax HEW20-BF_Nss1,(MCS0)_2TX | 15.90                | 0.03890            | 23.26         | 0.21184     |
| 802.11ax HEW40-BF_Nss1,(MCS0)_2TX | 11.91                | 0.01552            | 19.27         | 0.08453     |
| 802.11ax HEW80-BF_Nss1,(MCS0)_2TX | 8.35                 | 0.00684            | 15.71         | 0.03724     |

**Result**

| Mode                              | Result | DG<br>(dBi) | Port 1<br>(dBm) | Port 2<br>(dBm) | Total Power<br>(dBm) | Power Limit<br>(dBm) | EIRP<br>(dBm) | EIRP Limit<br>(dBm) |
|-----------------------------------|--------|-------------|-----------------|-----------------|----------------------|----------------------|---------------|---------------------|
| 802.11ax HEW20-BF_Nss1,(MCS0)_2TX | -      | -           | -               | -               | -                    | -                    | -             | -                   |
| 5260MHz                           | Pass   | 7.36        | 19.25           | 19.84           | 22.57                | 22.62                | 29.93         | 30.00               |
| 5300MHz                           | Pass   | 7.36        | 19.21           | 19.95           | 22.61                | 22.62                | 29.97         | 30.00               |
| 5320MHz                           | Pass   | 7.36        | 19.11           | 19.94           | 22.56                | 22.62                | 29.92         | 30.00               |
| 5500MHz                           | Pass   | 7.36        | 18.64           | 20.32           | 22.57                | 22.62                | 29.93         | 30.00               |
| 5580MHz                           | Pass   | 7.36        | 18.22           | 20.39           | 22.45                | 22.62                | 29.81         | 30.00               |
| 5700MHz                           | Pass   | 7.36        | 18.19           | 20.15           | 22.29                | 22.62                | 29.65         | 30.00               |
| 5720MHz Straddle 5.47-5.725GHz    | Pass   | 7.36        | 18.14           | 18.95           | 21.57                | 21.58                | 28.93         | 28.94               |
| 5720MHz Straddle 5.725-5.85GHz    | Pass   | 7.36        | 12.37           | 13.36           | 15.90                | 28.64                | 23.26         | 36.00               |
| 802.11ax HEW40-BF_Nss1,(MCS0)_2TX | -      | -           | -               | -               | -                    | -                    | -             | -                   |
| 5270MHz                           | Pass   | 7.36        | 19.03           | 19.93           | 22.51                | 22.62                | 29.87         | 30.00               |
| 5310MHz                           | Pass   | 7.36        | 18.90           | 19.84           | 22.41                | 22.62                | 29.77         | 30.00               |
| 5510MHz                           | Pass   | 7.36        | 18.70           | 20.33           | 22.60                | 22.62                | 29.96         | 30.00               |
| 5550MHz                           | Pass   | 7.36        | 18.82           | 20.24           | 22.60                | 22.62                | 29.96         | 30.00               |
| 5670MHz                           | Pass   | 7.36        | 18.20           | 20.37           | 22.43                | 22.62                | 29.79         | 30.00               |
| 5710MHz Straddle 5.47-5.725GHz    | Pass   | 7.36        | 18.80           | 19.99           | 22.45                | 22.62                | 29.81         | 30.00               |
| 5710MHz Straddle 5.725-5.85GHz    | Pass   | 7.36        | 8.20            | 9.51            | 11.91                | 28.64                | 19.27         | 36.00               |
| 802.11ax HEW80-BF_Nss1,(MCS0)_2TX | -      | -           | -               | -               | -                    | -                    | -             | -                   |
| 5290MHz                           | Pass   | 7.36        | 18.96           | 19.67           | 22.34                | 22.62                | 29.70         | 30.00               |
| 5530MHz                           | Pass   | 7.36        | 17.84           | 19.24           | 21.61                | 22.62                | 28.97         | 30.00               |
| 5610MHz                           | Pass   | 7.36        | 18.25           | 20.42           | 22.48                | 22.62                | 29.84         | 30.00               |
| 5690MHz Straddle 5.47-5.725GHz    | Pass   | 7.36        | 18.41           | 20.49           | 22.58                | 22.62                | 29.94         | 30.00               |
| 5690MHz Straddle 5.725-5.85GHz    | Pass   | 7.36        | 4.17            | 6.26            | 8.35                 | 28.64                | 15.71         | 36.00               |

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



**Summary**

| Mode                           | PD<br>(dBm/RBW) | EIRP PD<br>(dBm/RBW) |
|--------------------------------|-----------------|----------------------|
| 5.25-5.35GHz                   | -               | -                    |
| 802.11a_Nss1,(6Mbps)_2TX       | 9.34            | 16.70                |
| 802.11n HT20_Nss1,(MCS0)_2TX   | 9.44            | 16.80                |
| 802.11n HT40_Nss1,(MCS0)_2TX   | 8.78            | 16.14                |
| 802.11ac VHT20_Nss1,(MCS0)_2TX | 9.63            | 16.99                |
| 802.11ac VHT40_Nss1,(MCS0)_2TX | 9.06            | 16.42                |
| 802.11ac VHT80_Nss1,(MCS0)_2TX | 3.94            | 11.30                |
| 802.11ax HEW20_Nss1,(MCS0)_2TX | 9.63            | 16.99                |
| 802.11ax HEW40_Nss1,(MCS0)_2TX | 7.94            | 15.30                |
| 802.11ax HEW80_Nss1,(MCS0)_2TX | 3.62            | 10.98                |
| 5.47-5.725GHz                  | -               | -                    |
| 802.11a_Nss1,(6Mbps)_2TX       | 9.58            | 16.94                |
| 802.11n HT20_Nss1,(MCS0)_2TX   | 9.59            | 16.95                |
| 802.11n HT40_Nss1,(MCS0)_2TX   | 8.94            | 16.30                |
| 802.11ac VHT20_Nss1,(MCS0)_2TX | 9.53            | 16.89                |
| 802.11ac VHT40_Nss1,(MCS0)_2TX | 9.24            | 16.60                |
| 802.11ac VHT80_Nss1,(MCS0)_2TX | 5.37            | 12.73                |
| 802.11ax HEW20_Nss1,(MCS0)_2TX | 9.53            | 16.89                |
| 802.11ax HEW40_Nss1,(MCS0)_2TX | 7.98            | 15.34                |
| 802.11ax HEW80_Nss1,(MCS0)_2TX | 5.33            | 12.69                |
| 5.725-5.85GHz                  | -               | -                    |
| 802.11a_Nss1,(6Mbps)_2TX       | 7.90            | 15.26                |
| 802.11n HT20_Nss1,(MCS0)_2TX   | 6.96            | 14.32                |
| 802.11n HT40_Nss1,(MCS0)_2TX   | 4.22            | 11.58                |
| 802.11ac VHT20_Nss1,(MCS0)_2TX | 7.61            | 14.97                |
| 802.11ac VHT40_Nss1,(MCS0)_2TX | 4.64            | 12.00                |
| 802.11ac VHT80_Nss1,(MCS0)_2TX | 0.08            | 7.44                 |
| 802.11ax HEW20_Nss1,(MCS0)_2TX | 6.87            | 14.23                |
| 802.11ax HEW40_Nss1,(MCS0)_2TX | 4.61            | 11.97                |
| 802.11ax HEW80_Nss1,(MCS0)_2TX | -0.10           | 7.26                 |

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

**Result**

| Mode                           | Result | DG<br>(dBi) | Port 1<br>(dBm/RBW) | Port 2<br>(dBm/RBW) | PD<br>(dBm/RBW) | PD Limit<br>(dBm/RBW) | EIRP PD<br>(dBm/RBW) | EIRP PD Limit<br>(dBm/RBW) |
|--------------------------------|--------|-------------|---------------------|---------------------|-----------------|-----------------------|----------------------|----------------------------|
| 802.11a_Nss1,(6Mbps)_2TX       | -      | -           | -                   | -                   | -               | -                     | -                    | -                          |
| 5260MHz                        | Pass   | 7.36        | 5.74                | 6.33                | 9.02            | 9.64                  | 16.38                | 17.00                      |
| 5300MHz                        | Pass   | 7.36        | 5.94                | 6.78                | 9.28            | 9.64                  | 16.64                | 17.00                      |
| 5320MHz                        | Pass   | 7.36        | 6.27                | 7.45                | 9.34            | 9.64                  | 16.70                | 17.00                      |
| 5500MHz                        | Pass   | 7.36        | 5.81                | 7.59                | 9.58            | 9.64                  | 16.94                | 17.00                      |
| 5580MHz                        | Pass   | 7.36        | 5.12                | 7.19                | 9.25            | 9.64                  | 16.61                | 17.00                      |
| 5700MHz                        | Pass   | 7.36        | 5.33                | 7.26                | 9.33            | 9.64                  | 16.69                | 17.00                      |
| 5720MHz Straddle 5.47-5.725GHz | Pass   | 7.36        | 5.91                | 7.16                | 9.55            | 9.64                  | 16.91                | 17.00                      |
| 5720MHz Straddle 5.725-5.85GHz | Pass   | 7.36        | 4.38                | 5.36                | 7.90            | 28.64                 | 15.26                | 36.00                      |
| 802.11n HT20_Nss1,(MCS0)_2TX   | -      | -           | -                   | -                   | -               | -                     | -                    | -                          |
| 5260MHz                        | Pass   | 7.36        | 6.06                | 7.04                | 9.35            | 9.64                  | 16.71                | 17.00                      |
| 5300MHz                        | Pass   | 7.36        | 6.36                | 7.21                | 9.30            | 9.64                  | 16.66                | 17.00                      |
| 5320MHz                        | Pass   | 7.36        | 6.58                | 7.44                | 9.44            | 9.64                  | 16.80                | 17.00                      |
| 5500MHz                        | Pass   | 7.36        | 6.03                | 7.70                | 9.59            | 9.64                  | 16.95                | 17.00                      |
| 5580MHz                        | Pass   | 7.36        | 5.45                | 7.33                | 9.31            | 9.64                  | 16.67                | 17.00                      |
| 5700MHz                        | Pass   | 7.36        | 5.41                | 7.59                | 9.58            | 9.64                  | 16.94                | 17.00                      |
| 5720MHz Straddle 5.47-5.725GHz | Pass   | 7.36        | 6.19                | 7.11                | 9.56            | 9.64                  | 16.92                | 17.00                      |
| 5720MHz Straddle 5.725-5.85GHz | Pass   | 7.36        | 3.79                | 4.27                | 6.96            | 28.64                 | 14.32                | 36.00                      |
| 802.11n HT40_Nss1,(MCS0)_2TX   | -      | -           | -                   | -                   | -               | -                     | -                    | -                          |
| 5270MHz                        | Pass   | 7.36        | 5.52                | 6.32                | 8.78            | 9.64                  | 16.14                | 17.00                      |
| 5310MHz                        | Pass   | 7.36        | 5.37                | 6.38                | 8.53            | 9.64                  | 15.89                | 17.00                      |
| 5510MHz                        | Pass   | 7.36        | 5.42                | 6.80                | 8.82            | 9.64                  | 16.18                | 17.00                      |
| 5550MHz                        | Pass   | 7.36        | 5.06                | 6.82                | 8.94            | 9.64                  | 16.30                | 17.00                      |
| 5670MHz                        | Pass   | 7.36        | 4.56                | 6.91                | 8.89            | 9.64                  | 16.25                | 17.00                      |
| 5710MHz Straddle 5.47-5.725GHz | Pass   | 7.36        | 3.96                | 5.52                | 7.80            | 9.64                  | 15.16                | 17.00                      |
| 5710MHz Straddle 5.725-5.85GHz | Pass   | 7.36        | 0.67                | 1.87                | 4.22            | 28.64                 | 11.58                | 36.00                      |
| 802.11ac VHT20_Nss1,(MCS0)_2TX | -      | -           | -                   | -                   | -               | -                     | -                    | -                          |
| 5260MHz                        | Pass   | 7.36        | 6.27                | 7.03                | 9.53            | 9.64                  | 16.89                | 17.00                      |
| 5300MHz                        | Pass   | 7.36        | 6.61                | 7.36                | 9.54            | 9.64                  | 16.90                | 17.00                      |
| 5320MHz                        | Pass   | 7.36        | 6.78                | 7.57                | 9.63            | 9.64                  | 16.99                | 17.00                      |
| 5500MHz                        | Pass   | 7.36        | 5.90                | 7.46                | 9.52            | 9.64                  | 16.88                | 17.00                      |
| 5580MHz                        | Pass   | 7.36        | 5.53                | 7.38                | 9.40            | 9.64                  | 16.76                | 17.00                      |
| 5700MHz                        | Pass   | 7.36        | 5.49                | 7.52                | 9.53            | 9.64                  | 16.89                | 17.00                      |
| 5720MHz Straddle 5.47-5.725GHz | Pass   | 7.36        | 5.96                | 6.99                | 9.48            | 9.64                  | 16.84                | 17.00                      |
| 5720MHz Straddle 5.725-5.85GHz | Pass   | 7.36        | 4.06                | 5.14                | 7.61            | 28.64                 | 14.97                | 36.00                      |
| 802.11ac VHT40_Nss1,(MCS0)_2TX | -      | -           | -                   | -                   | -               | -                     | -                    | -                          |
| 5270MHz                        | Pass   | 7.36        | 5.96                | 6.55                | 9.06            | 9.64                  | 16.42                | 17.00                      |
| 5310MHz                        | Pass   | 7.36        | 5.78                | 6.65                | 8.86            | 9.64                  | 16.22                | 17.00                      |
| 5510MHz                        | Pass   | 7.36        | 5.67                | 7.12                | 9.16            | 9.64                  | 16.52                | 17.00                      |
| 5550MHz                        | Pass   | 7.36        | 5.44                | 7.11                | 9.24            | 9.64                  | 16.60                | 17.00                      |
| 5670MHz                        | Pass   | 7.36        | 4.98                | 7.22                | 9.20            | 9.64                  | 16.56                | 17.00                      |
| 5710MHz Straddle 5.47-5.725GHz | Pass   | 7.36        | 4.63                | 5.74                | 8.16            | 9.64                  | 15.52                | 17.00                      |
| 5710MHz Straddle 5.725-5.85GHz | Pass   | 7.36        | 1.40                | 2.13                | 4.64            | 28.64                 | 12.00                | 36.00                      |
| 802.11ac VHT80_Nss1,(MCS0)_2TX | -      | -           | -                   | -                   | -               | -                     | -                    | -                          |
| 5290MHz                        | Pass   | 7.36        | 0.93                | 1.84                | 3.94            | 9.64                  | 11.30                | 17.00                      |
| 5530MHz                        | Pass   | 7.36        | 0.92                | 2.31                | 4.47            | 9.64                  | 11.83                | 17.00                      |
| 5610MHz                        | Pass   | 7.36        | 1.22                | 3.43                | 5.37            | 9.64                  | 12.73                | 17.00                      |
| 5690MHz Straddle 5.47-5.725GHz | Pass   | 7.36        | 0.88                | 3.23                | 5.17            | 9.64                  | 12.53                | 17.00                      |
| 5690MHz Straddle 5.725-5.85GHz | Pass   | 7.36        | -4.02               | -1.91               | 0.08            | 28.64                 | 7.44                 | 36.00                      |
| 802.11ax HEW20_Nss1,(MCS0)_2TX | -      | -           | -                   | -                   | -               | -                     | -                    | -                          |
| 5260MHz                        | Pass   | 7.36        | 6.50                | 7.33                | 9.63            | 9.64                  | 16.99                | 17.00                      |
| 5300MHz                        | Pass   | 7.36        | 6.45                | 7.18                | 9.32            | 9.64                  | 16.68                | 17.00                      |
| 5320MHz                        | Pass   | 7.36        | 6.66                | 7.70                | 9.60            | 9.64                  | 16.96                | 17.00                      |
| 5500MHz                        | Pass   | 7.36        | 5.86                | 7.65                | 9.53            | 9.64                  | 16.89                | 17.00                      |
| 5580MHz                        | Pass   | 7.36        | 5.32                | 7.45                | 9.38            | 9.64                  | 16.74                | 17.00                      |



## PSD\_Non-Beamforming\_Radio 1

## Appendix C.1

| Mode                           | Result | DG<br>(dBi) | Port 1<br>(dBm/RBW) | Port 2<br>(dBm/RBW) | PD<br>(dBm/RBW) | PD Limit<br>(dBm/RBW) | EIRP PD<br>(dBm/RBW) | EIRP PD Limit<br>(dBm/RBW) |
|--------------------------------|--------|-------------|---------------------|---------------------|-----------------|-----------------------|----------------------|----------------------------|
| 5700MHz                        | Pass   | 7.36        | 5.13                | 7.25                | 9.19            | 9.64                  | 16.55                | 17.00                      |
| 5720MHz Straddle 5.47-5.725GHz | Pass   | 7.36        | 5.99                | 7.04                | 9.45            | 9.64                  | 16.81                | 17.00                      |
| 5720MHz Straddle 5.725-5.85GHz | Pass   | 7.36        | 3.67                | 4.38                | 6.87            | 28.64                 | 14.23                | 36.00                      |
| 802.11ax HEW40_Nss1,(MCS0)_2TX | -      | -           | -                   | -                   | -               | -                     | -                    | -                          |
| 5270MHz                        | Pass   | 7.36        | 4.76                | 5.49                | 7.94            | 9.64                  | 15.30                | 17.00                      |
| 5310MHz                        | Pass   | 7.36        | 4.52                | 5.33                | 7.56            | 9.64                  | 14.92                | 17.00                      |
| 5510MHz                        | Pass   | 7.36        | 4.17                | 5.80                | 7.74            | 9.64                  | 15.10                | 17.00                      |
| 5550MHz                        | Pass   | 7.36        | 4.05                | 5.57                | 7.76            | 9.64                  | 15.12                | 17.00                      |
| 5670MHz                        | Pass   | 7.36        | 3.50                | 5.63                | 7.57            | 9.64                  | 14.93                | 17.00                      |
| 5710MHz Straddle 5.47-5.725GHz | Pass   | 7.36        | 4.09                | 5.73                | 7.98            | 9.64                  | 15.34                | 17.00                      |
| 5710MHz Straddle 5.725-5.85GHz | Pass   | 7.36        | 0.98                | 2.37                | 4.61            | 28.64                 | 11.97                | 36.00                      |
| 802.11ax HEW80_Nss1,(MCS0)_2TX | -      | -           | -                   | -                   | -               | -                     | -                    | -                          |
| 5290MHz                        | Pass   | 7.36        | 0.44                | 1.18                | 3.62            | 9.64                  | 10.98                | 17.00                      |
| 5530MHz                        | Pass   | 7.36        | 0.72                | 2.07                | 4.35            | 9.64                  | 11.71                | 17.00                      |
| 5610MHz                        | Pass   | 7.36        | 0.95                | 3.19                | 5.19            | 9.64                  | 12.55                | 17.00                      |
| 5690MHz Straddle 5.47-5.725GHz | Pass   | 7.36        | 1.13                | 3.33                | 5.33            | 9.64                  | 12.69                | 17.00                      |
| 5690MHz Straddle 5.725-5.85GHz | Pass   | 7.36        | -4.24               | -2.22               | -0.10           | 28.64                 | 7.26                 | 36.00                      |

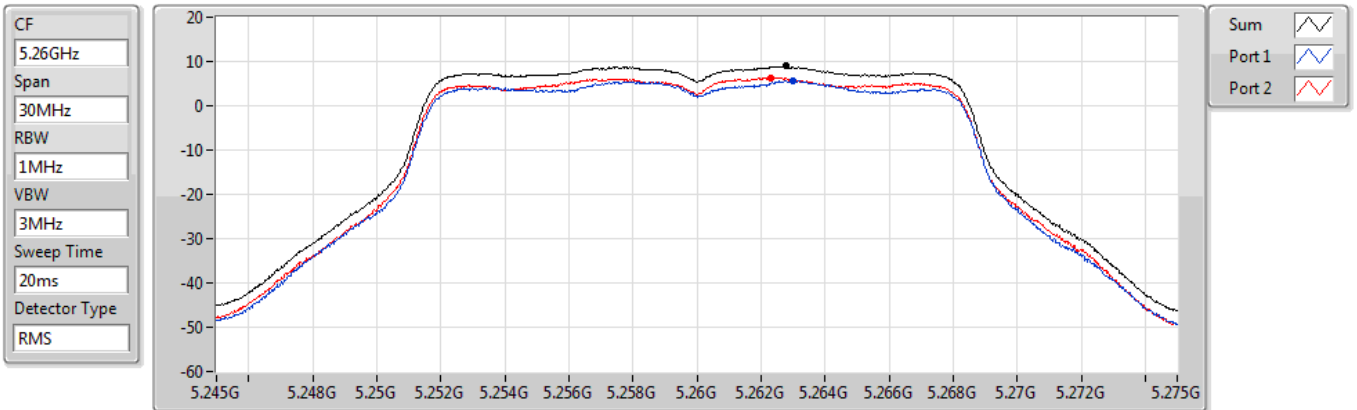
DG = Directional Gain; RBW = 500kHz for 5.725-5.85GHz band / 1MHz for other band;  
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; Port X = Port X Power Density;

## 802.11a\_Nss1,(6Mbps)\_2TX

## PSD

5260MHz

24/12/2020

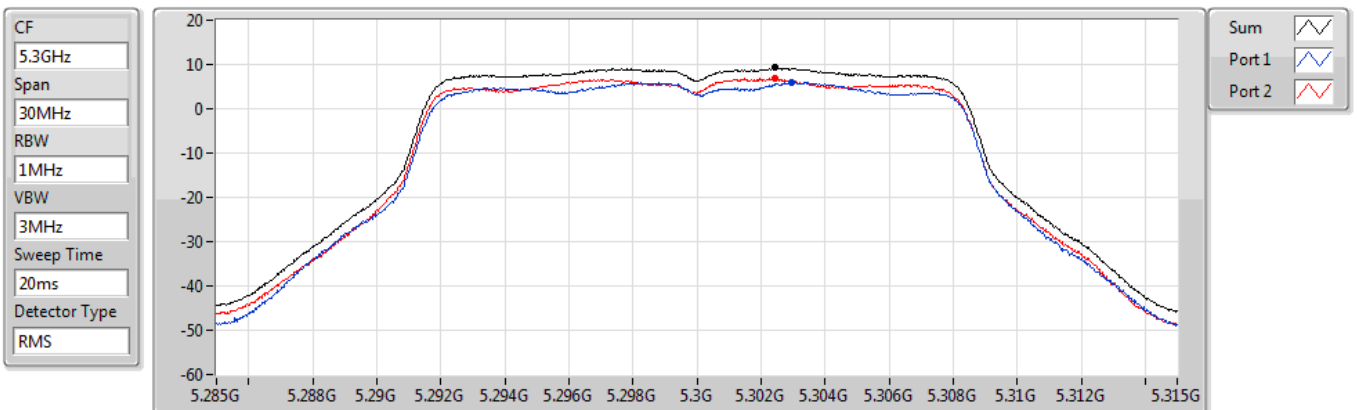


## 802.11a\_Nss1,(6Mbps)\_2TX

## PSD

5300MHz

24/12/2020

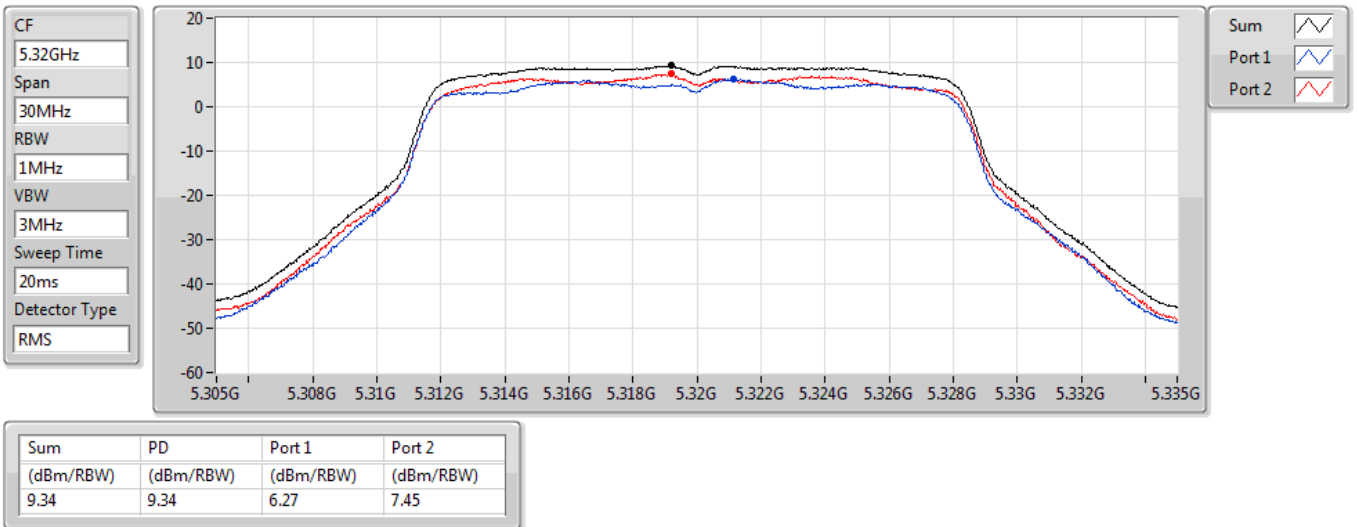


## 802.11a\_Nss1,(6Mbps)\_2TX

## PSD

5320MHz

24/12/2020

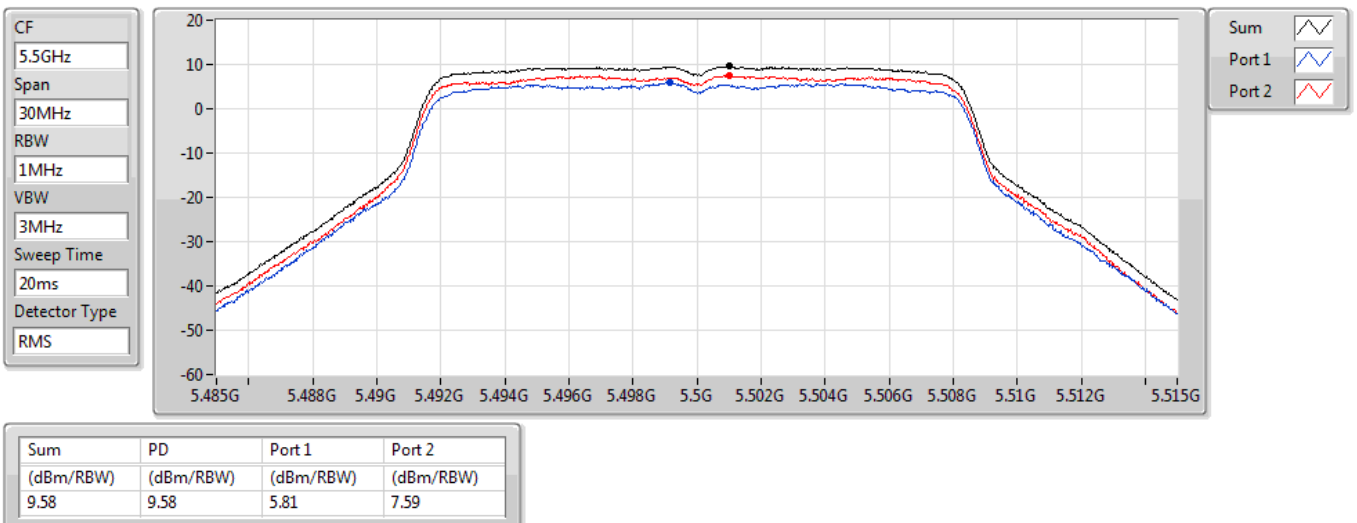


## 802.11a\_Nss1,(6Mbps)\_2TX

## PSD

5500MHz

24/12/2020

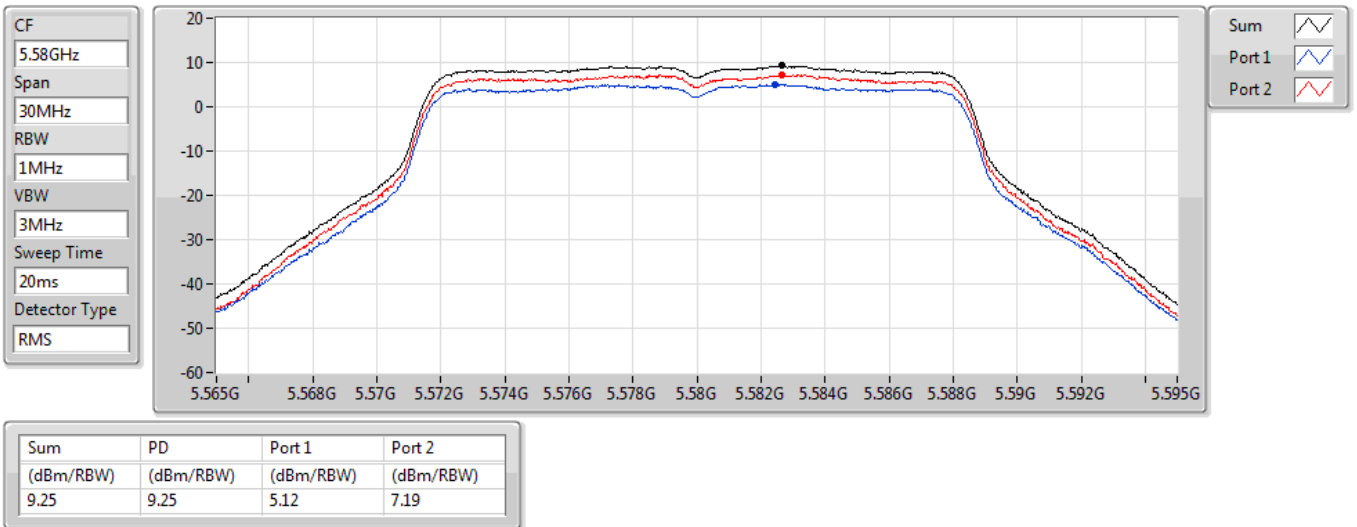


## 802.11a\_Nss1,(6Mbps)\_2TX

## PSD

5580MHz

24/12/2020

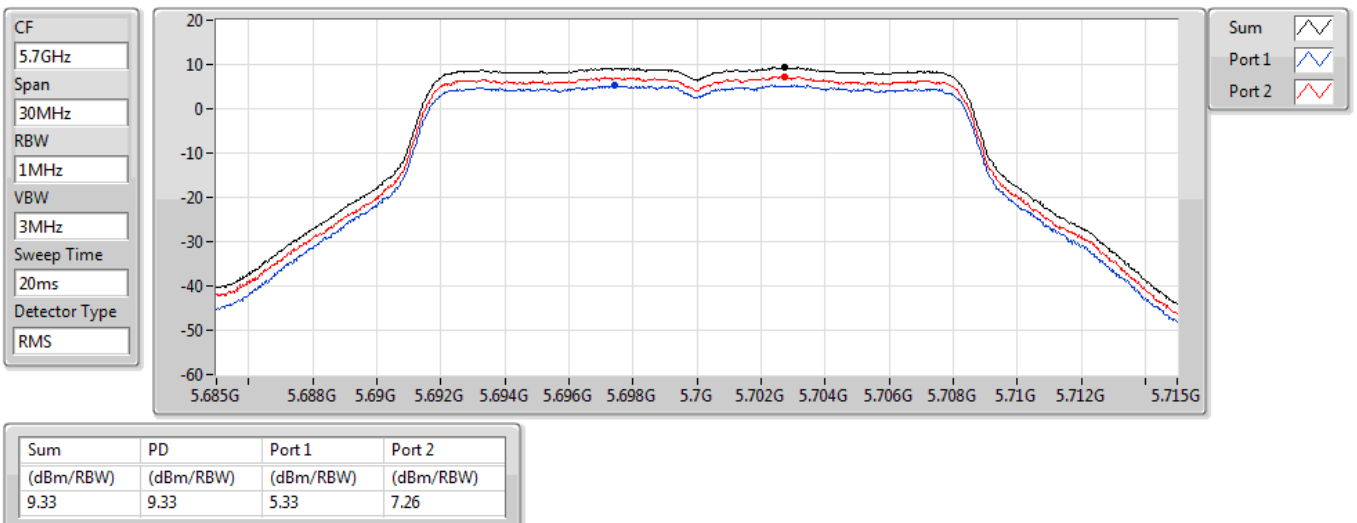


## 802.11a\_Nss1,(6Mbps)\_2TX

## PSD

5700MHz

24/12/2020

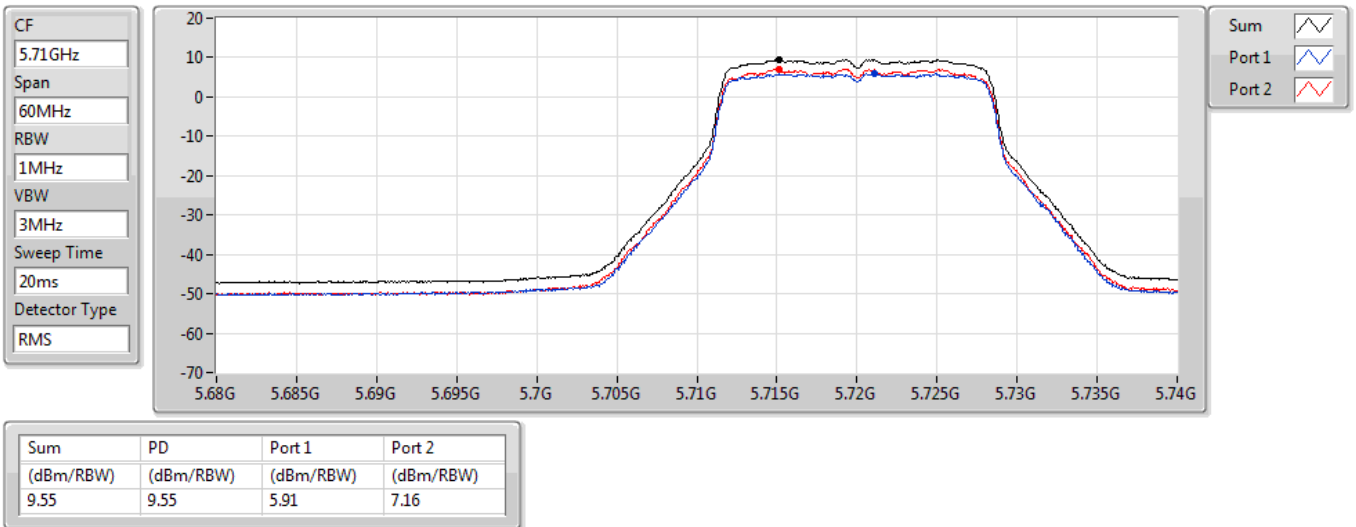


## 802.11a\_Nss1,(6Mbps)\_2TX

### 5720MHz Straddle 5.47-5.725GHz

## PSD

24/12/2020

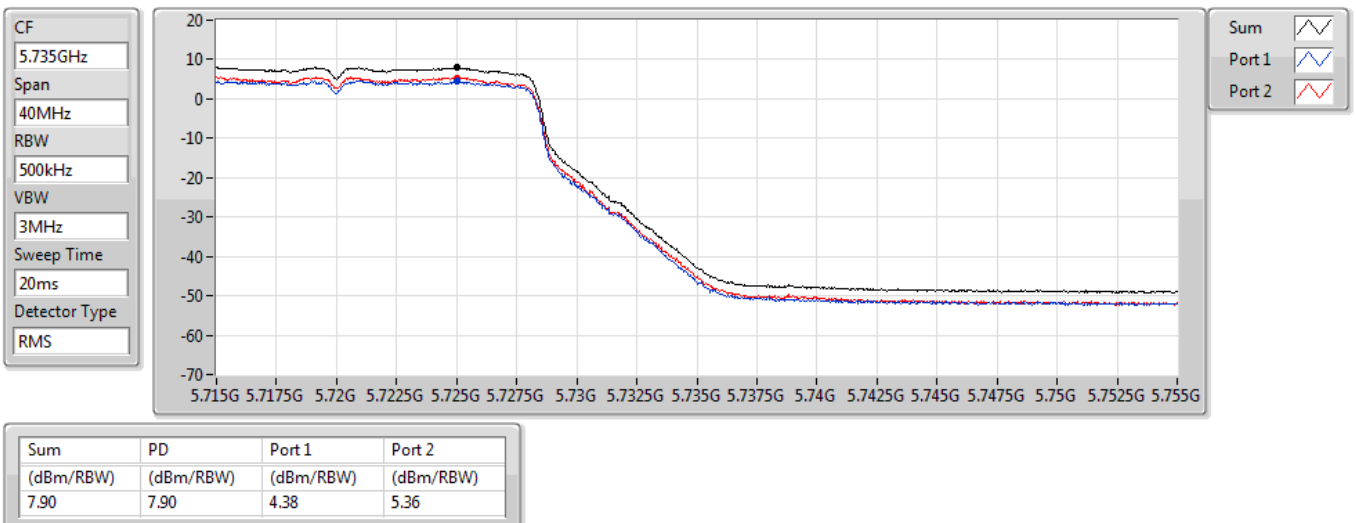


## 802.11a\_Nss1,(6Mbps)\_2TX

### 5720MHz Straddle 5.725-5.85GHz

## PSD

24/12/2020

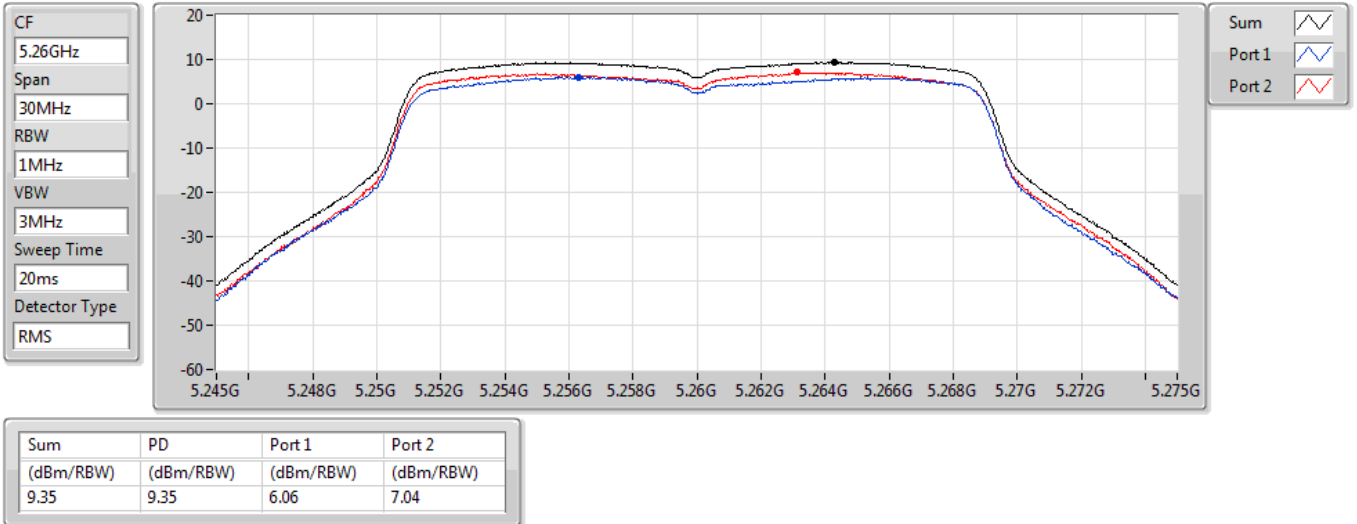


## 802.11n HT20\_Nss1,(MCS0)\_2TX

## PSD

5260MHz

24/12/2020

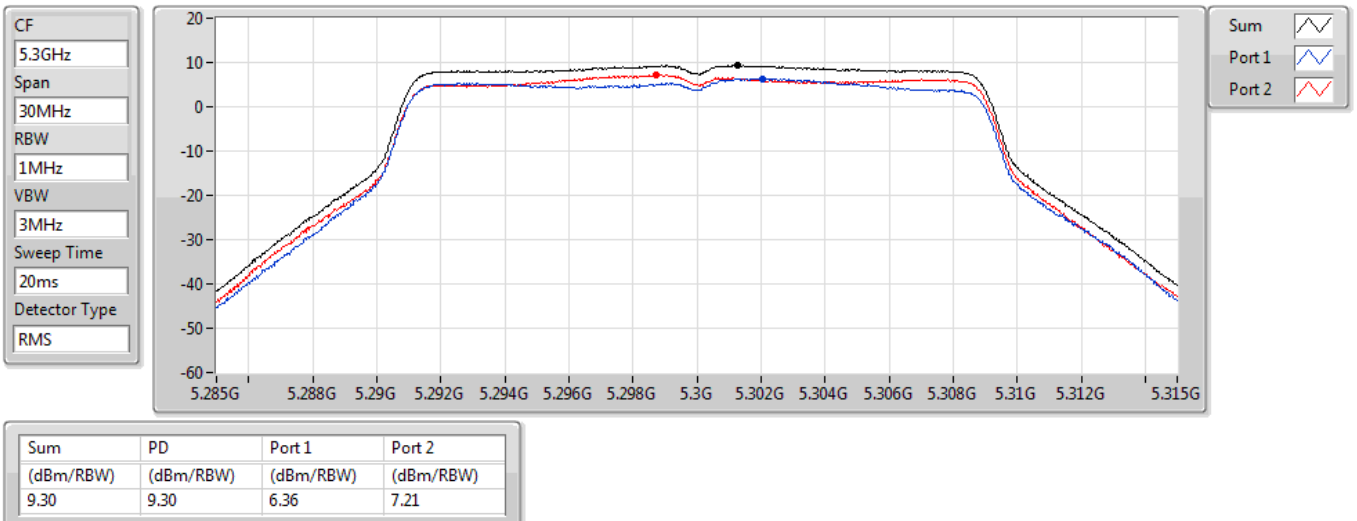


## 802.11n HT20\_Nss1,(MCS0)\_2TX

## PSD

5300MHz

24/12/2020



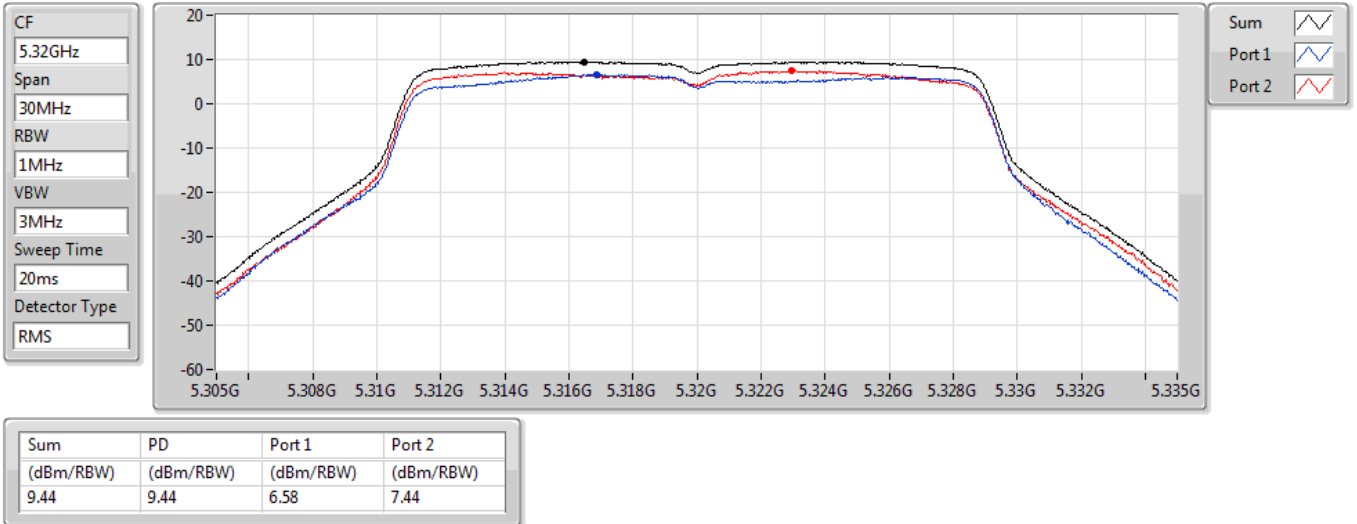


## 802.11n HT20\_Nss1,(MCS0)\_2TX

## PSD

5320MHz

24/12/2020

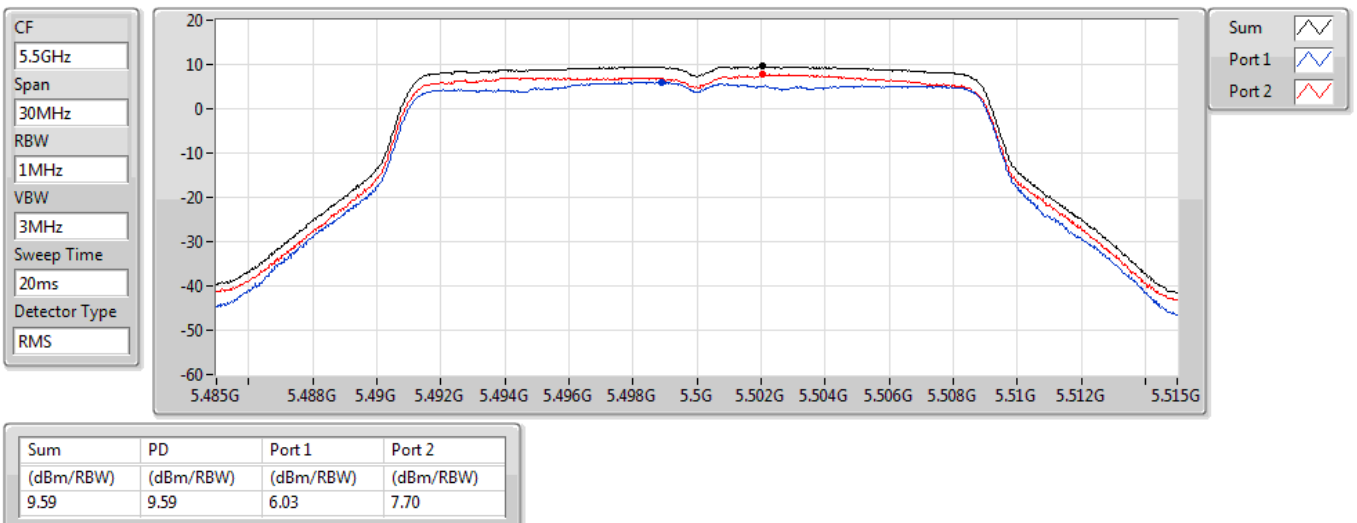


## 802.11n HT20\_Nss1,(MCS0)\_2TX

## PSD

5500MHz

24/12/2020

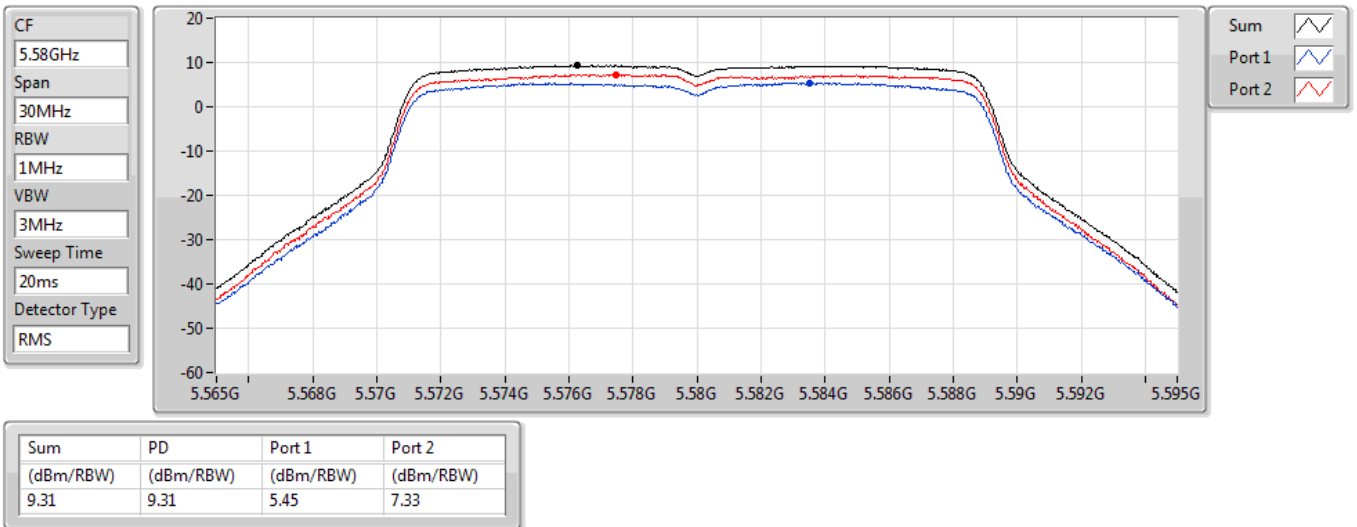


## 802.11n HT20\_Nss1,(MCS0)\_2TX

## PSD

5580MHz

24/12/2020

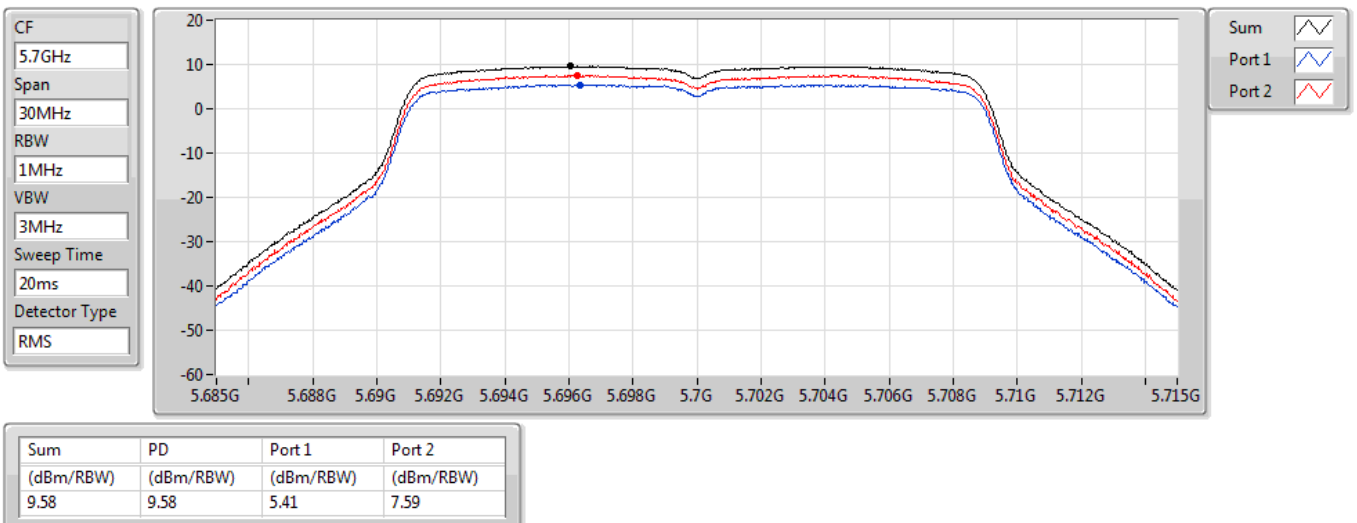


## 802.11n HT20\_Nss1,(MCS0)\_2TX

## PSD

5700MHz

24/12/2020

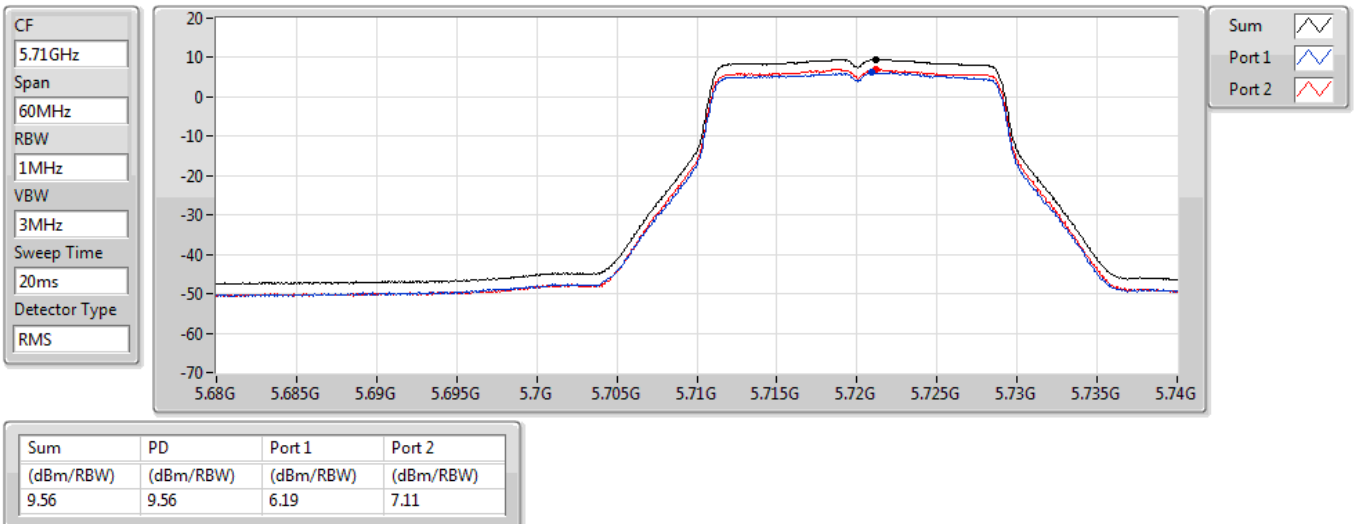


## 802.11n HT20\_Nss1,(MCS0)\_2TX

### 5720MHz Straddle 5.47-5.725GHz

## PSD

24/12/2020

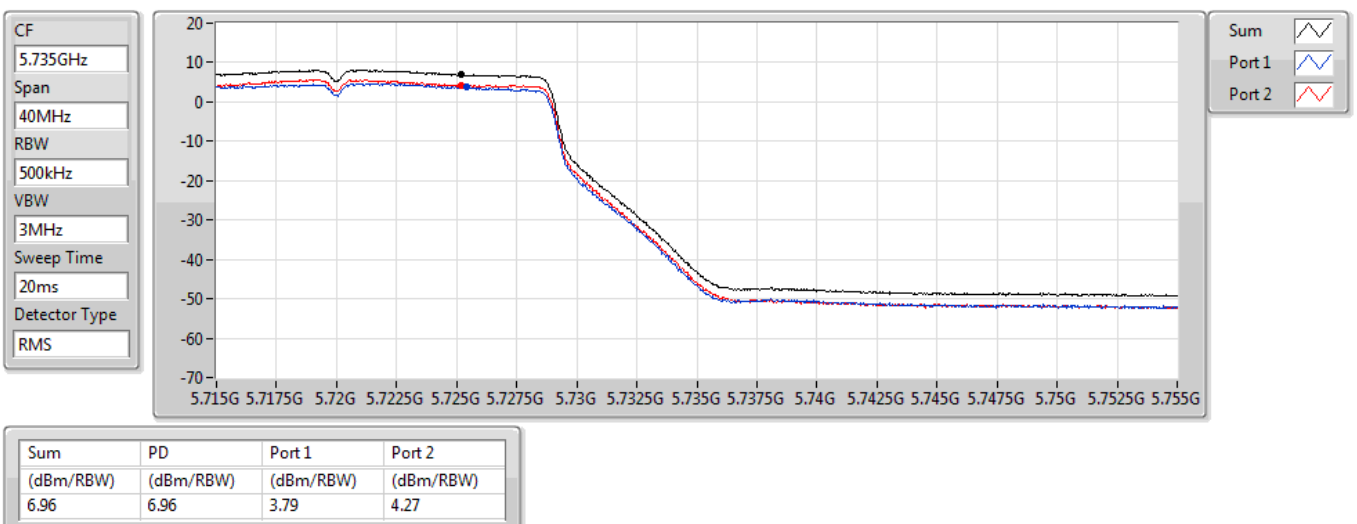


## 802.11n HT20\_Nss1,(MCS0)\_2TX

### 5720MHz Straddle 5.725-5.85GHz

## PSD

24/12/2020

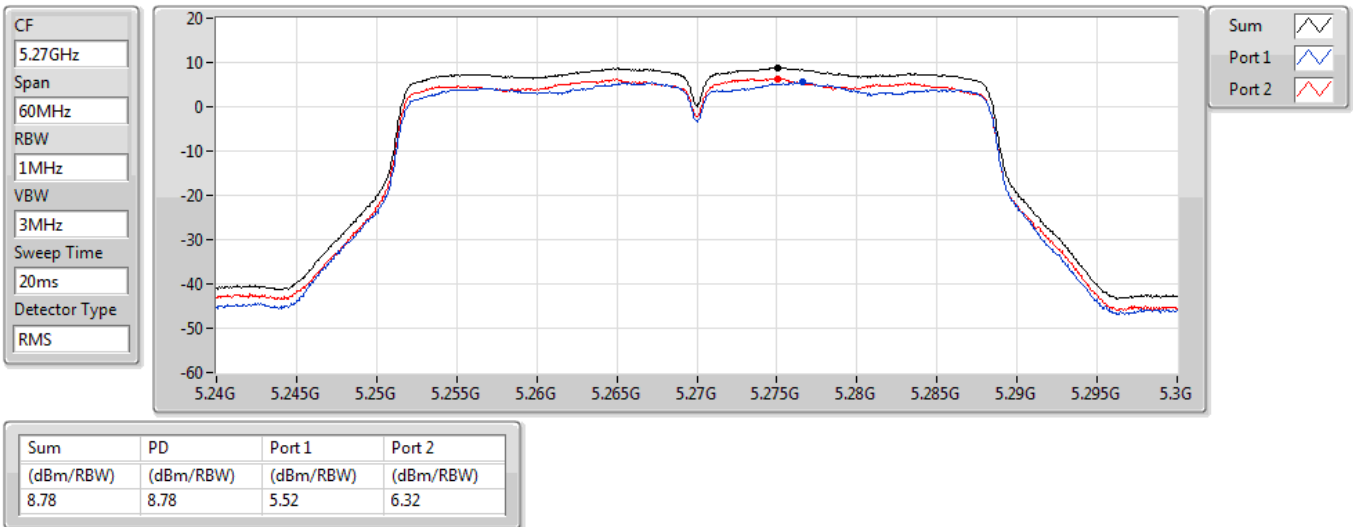


## 802.11n HT40\_Nss1,(MCS0)\_2TX

## PSD

5270MHz

24/12/2020

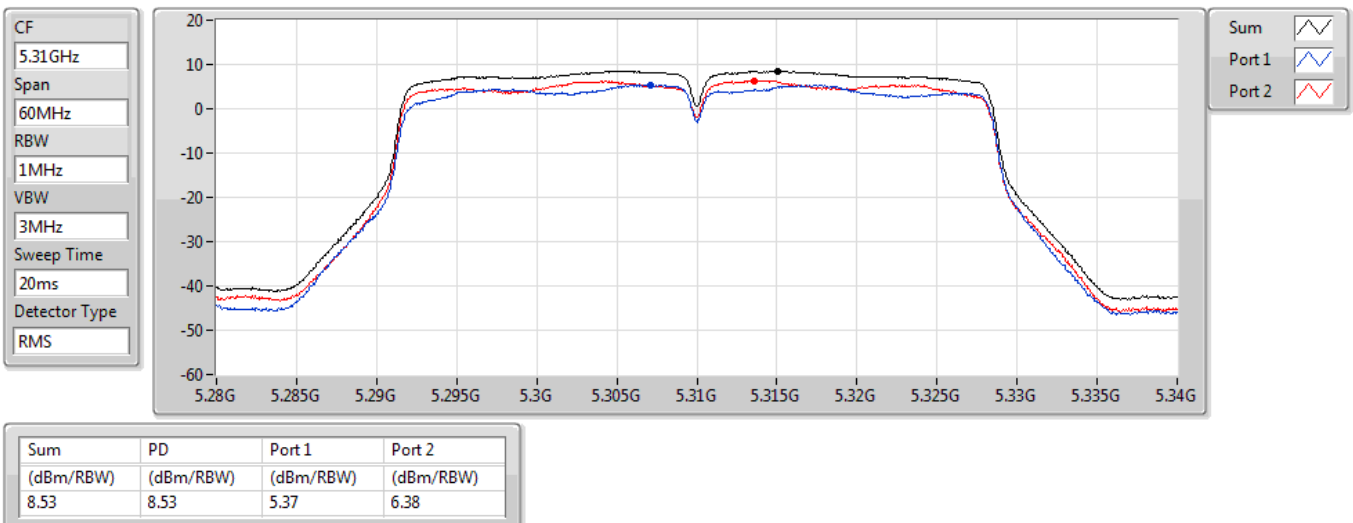


## 802.11n HT40\_Nss1,(MCS0)\_2TX

## PSD

5310MHz

24/12/2020

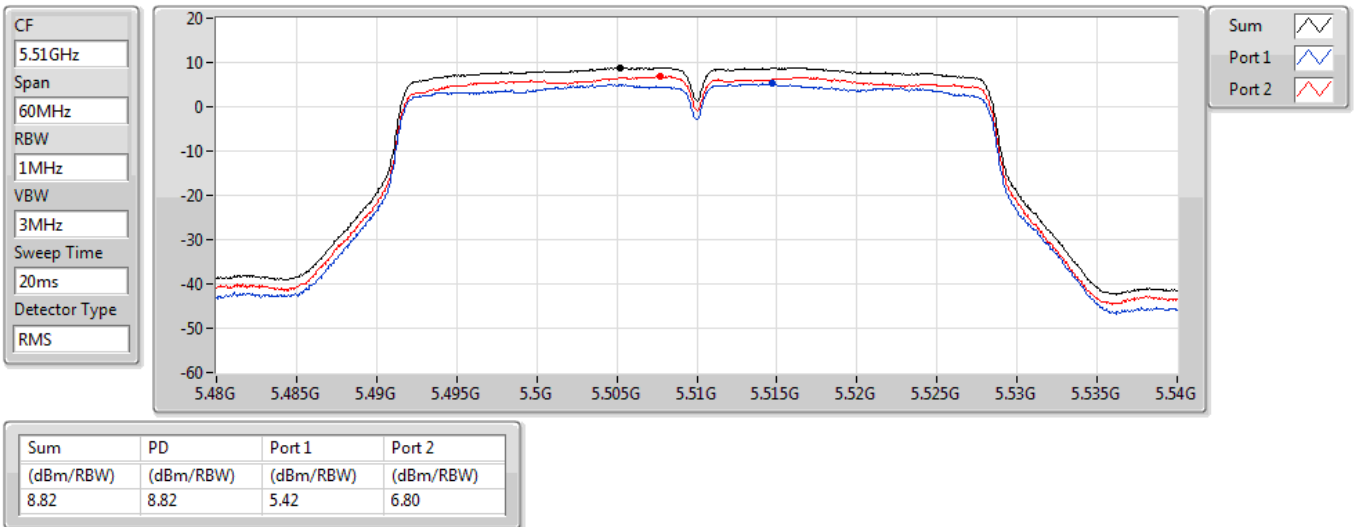


## 802.11n HT40\_Nss1,(MCS0)\_2TX

## PSD

5510MHz

24/12/2020

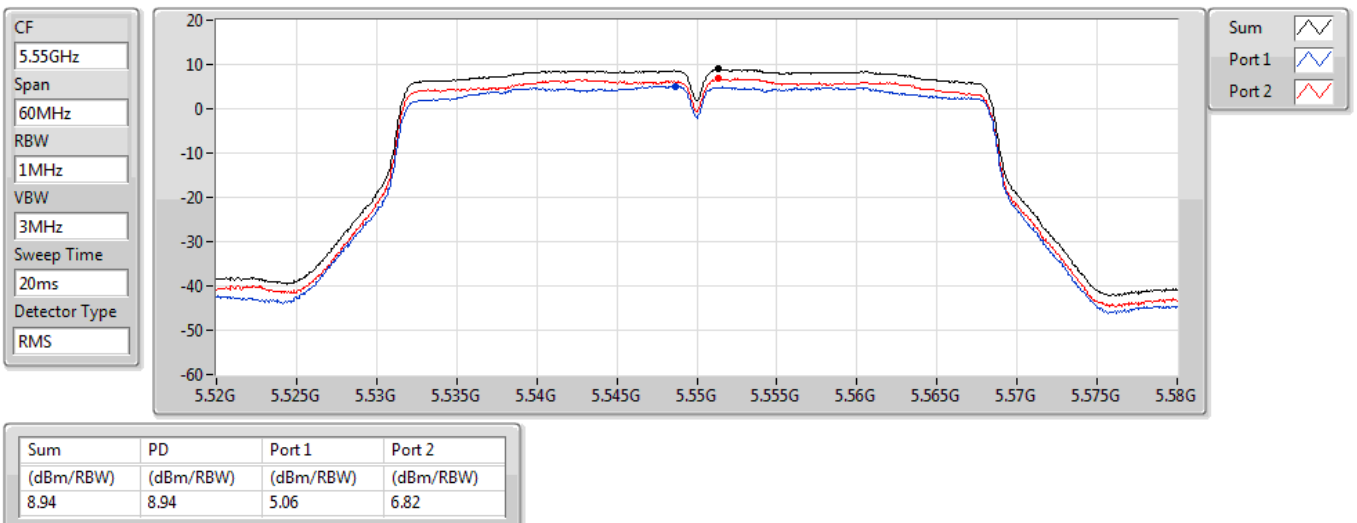


## 802.11n HT40\_Nss1,(MCS0)\_2TX

## PSD

5550MHz

24/12/2020

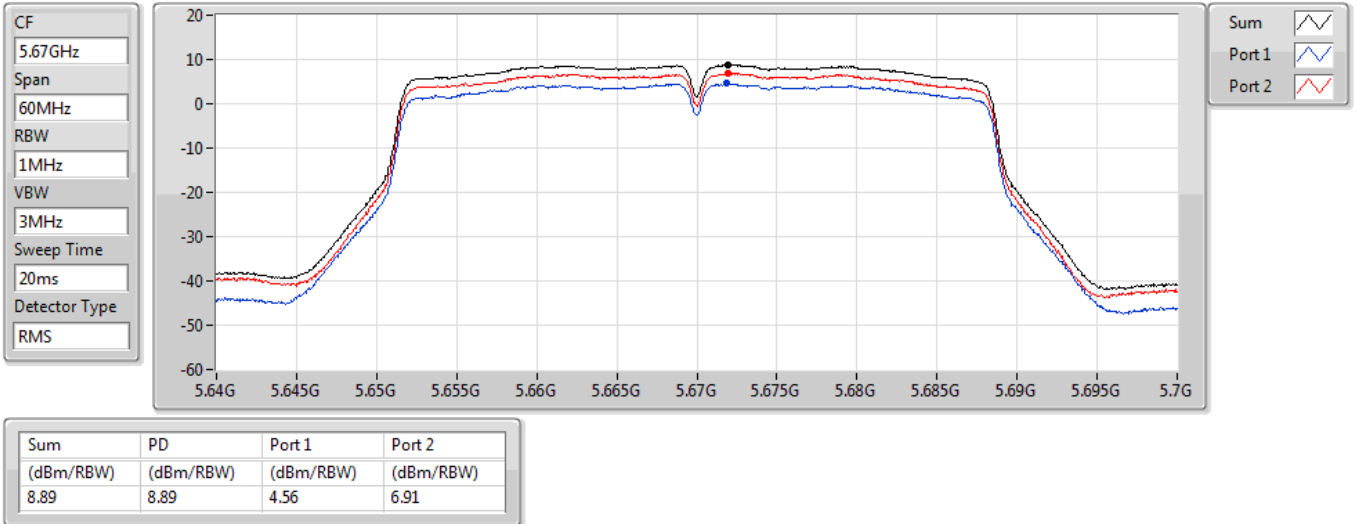


## 802.11n HT40\_Nss1,(MCS0)\_2TX

## PSD

5670MHz

24/12/2020

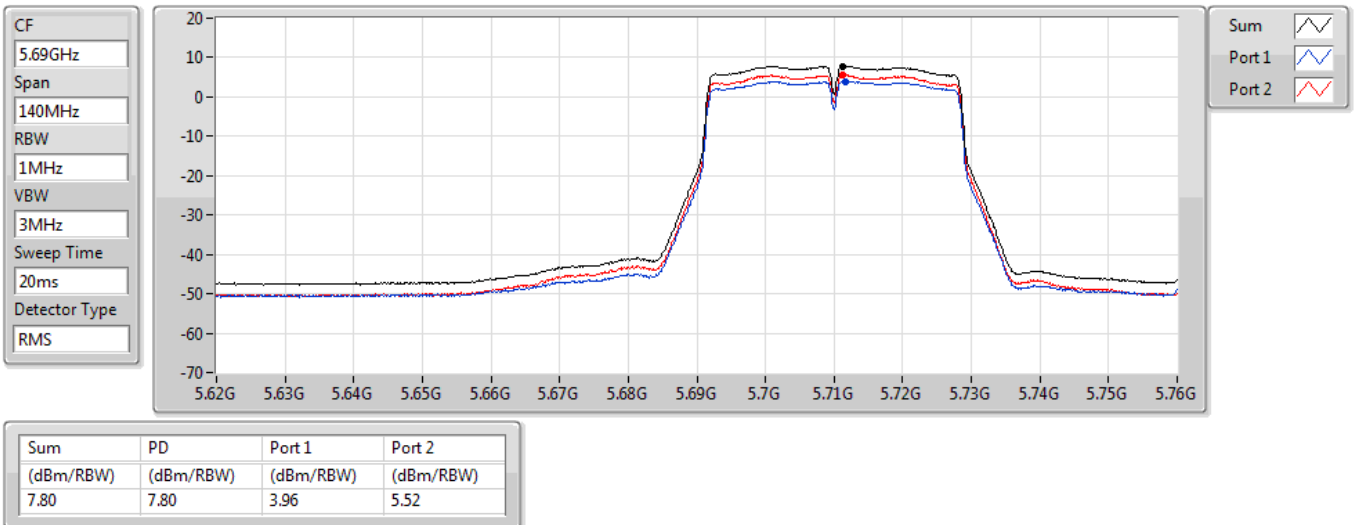


## 802.11n HT40\_Nss1,(MCS0)\_2TX

## PSD

5710MHz Straddle 5.47-5.725GHz

24/12/2020

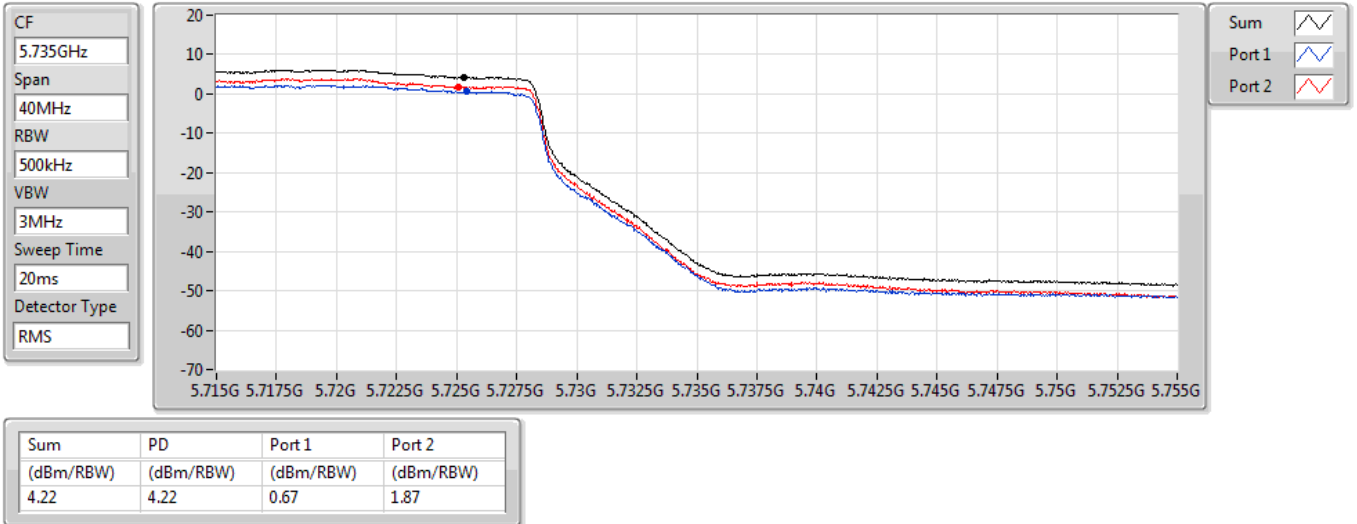


## 802.11n HT40\_Nss1,(MCS0)\_2TX

### 5710MHz Straddle 5.725-5.85GHz

## PSD

24/12/2020

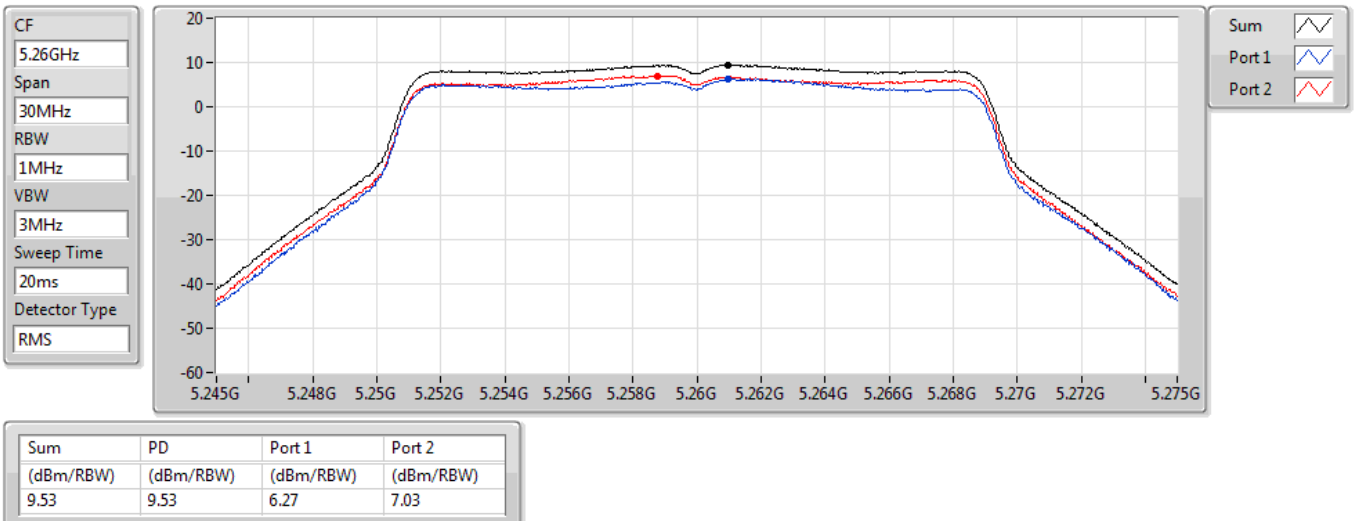


## 802.11ac VHT20\_Nss1,(MCS0)\_2TX

### 5260MHz

## PSD

24/12/2020

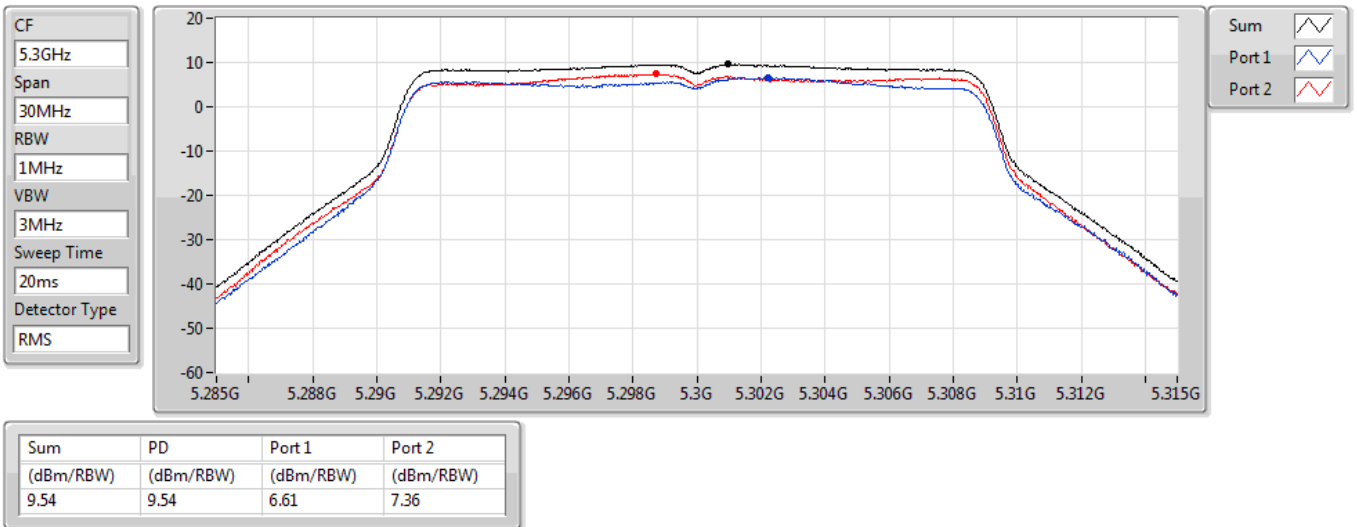


## 802.11ac VHT20\_Nss1,(MCS0)\_2TX

## PSD

5300MHz

24/12/2020

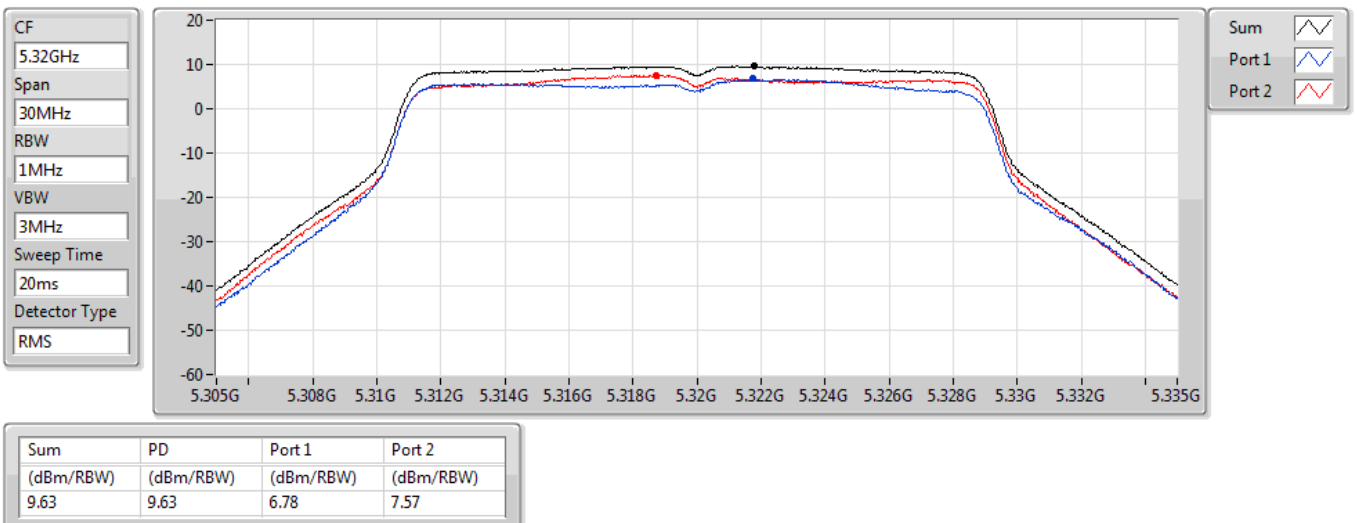


## 802.11ac VHT20\_Nss1,(MCS0)\_2TX

## PSD

5320MHz

24/12/2020



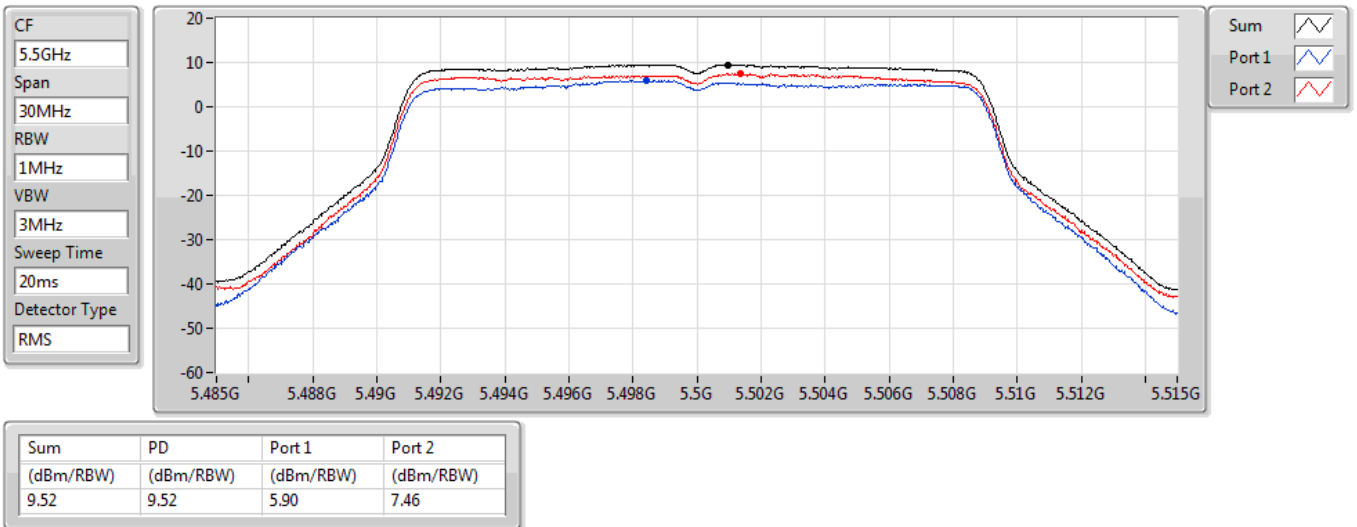


## 802.11ac VHT20\_Nss1,(MCS0)\_2TX

## PSD

5500MHz

24/12/2020

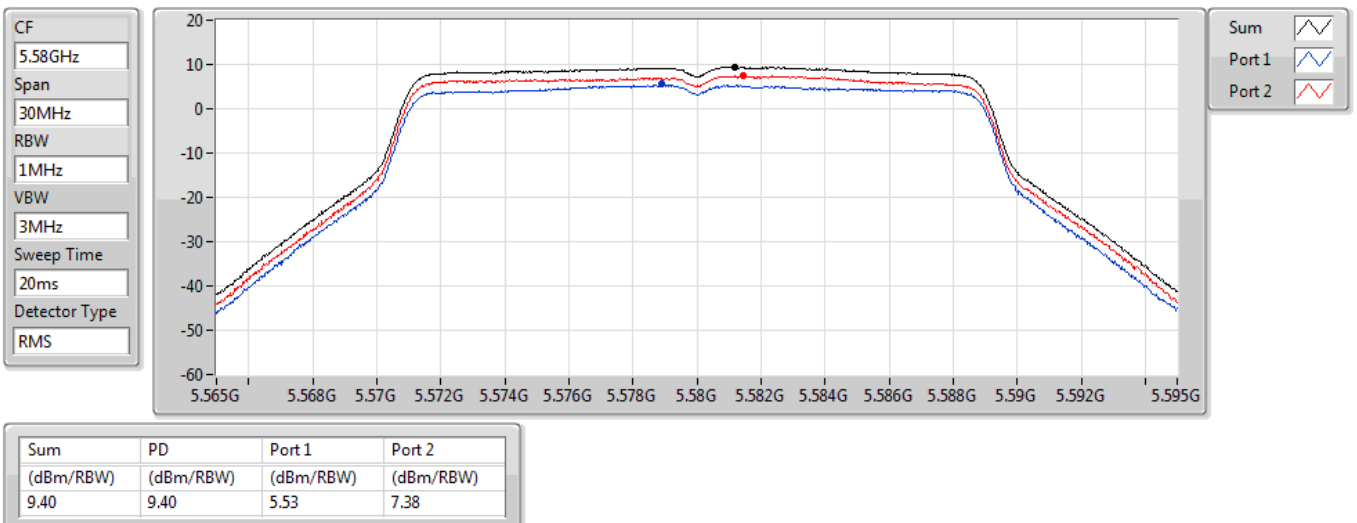


## 802.11ac VHT20\_Nss1,(MCS0)\_2TX

## PSD

5580MHz

24/12/2020

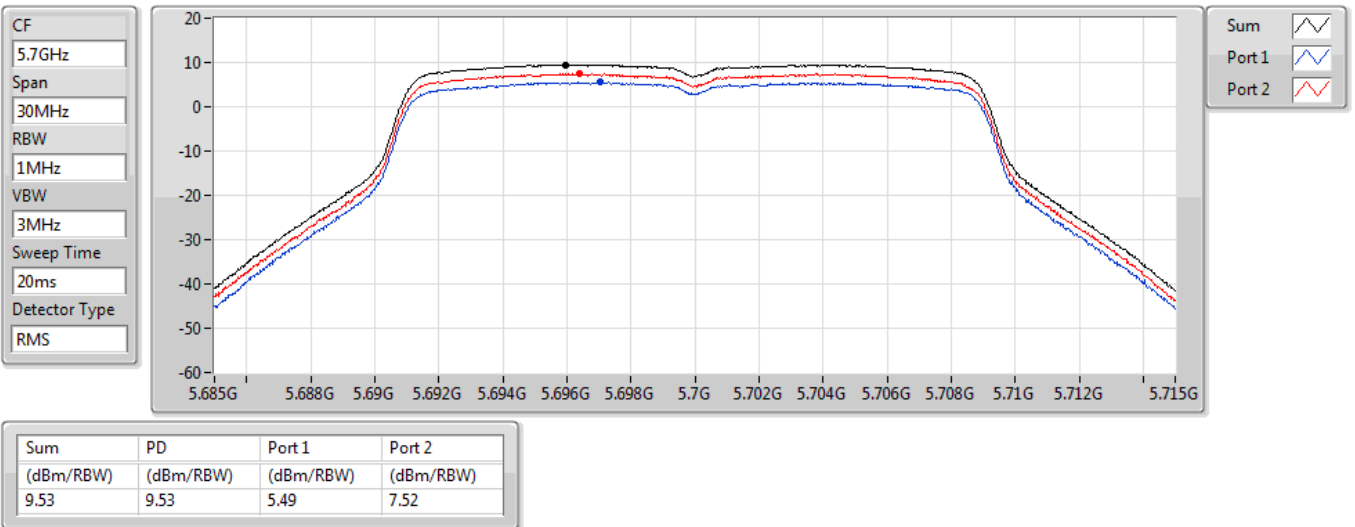


## 802.11ac VHT20\_Nss1,(MCS0)\_2TX

## PSD

5700MHz

24/12/2020

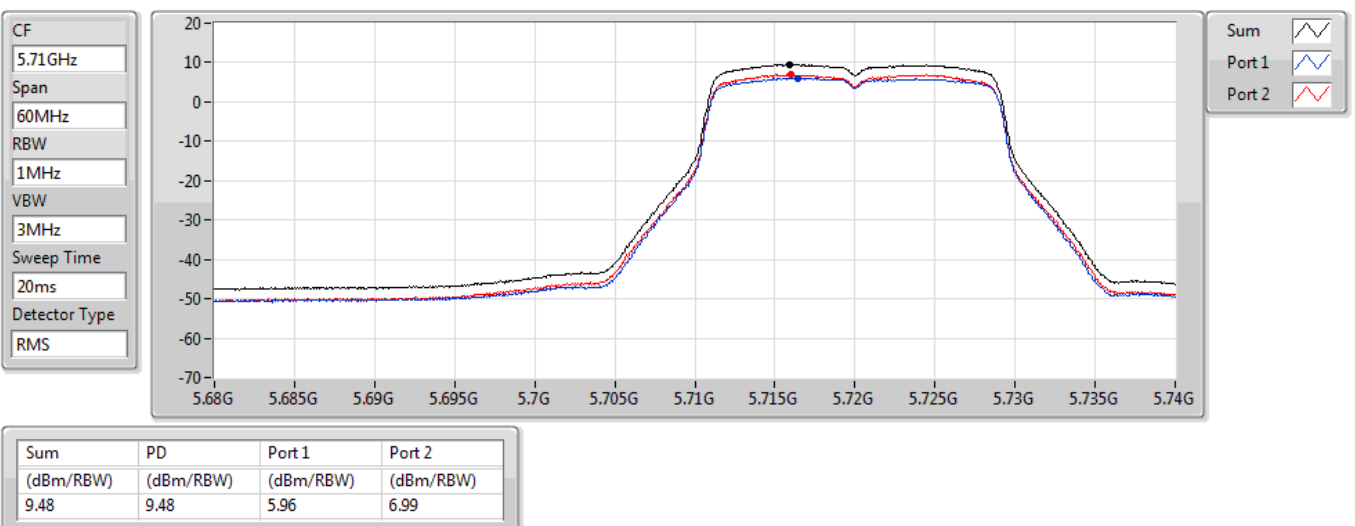


## 802.11ac VHT20\_Nss1,(MCS0)\_2TX

## PSD

5720MHz Straddle 5.47-5.725GHz

24/12/2020

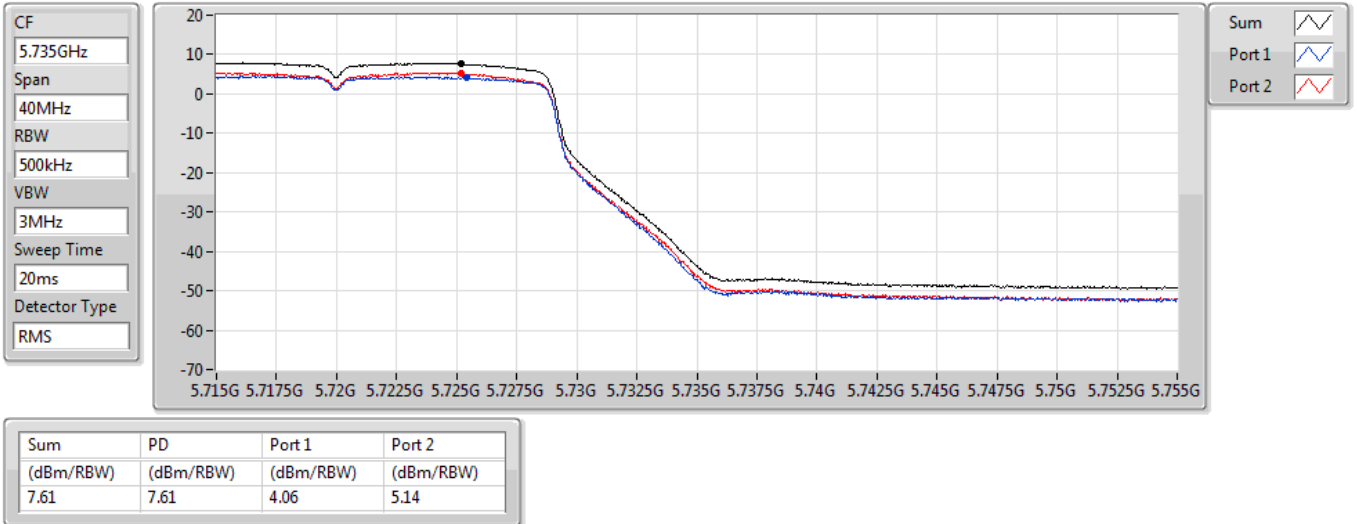


## 802.11ac VHT20\_Nss1,(MCS0)\_2TX

### 5720MHz Straddle 5.725-5.85GHz

PSD

24/12/2020

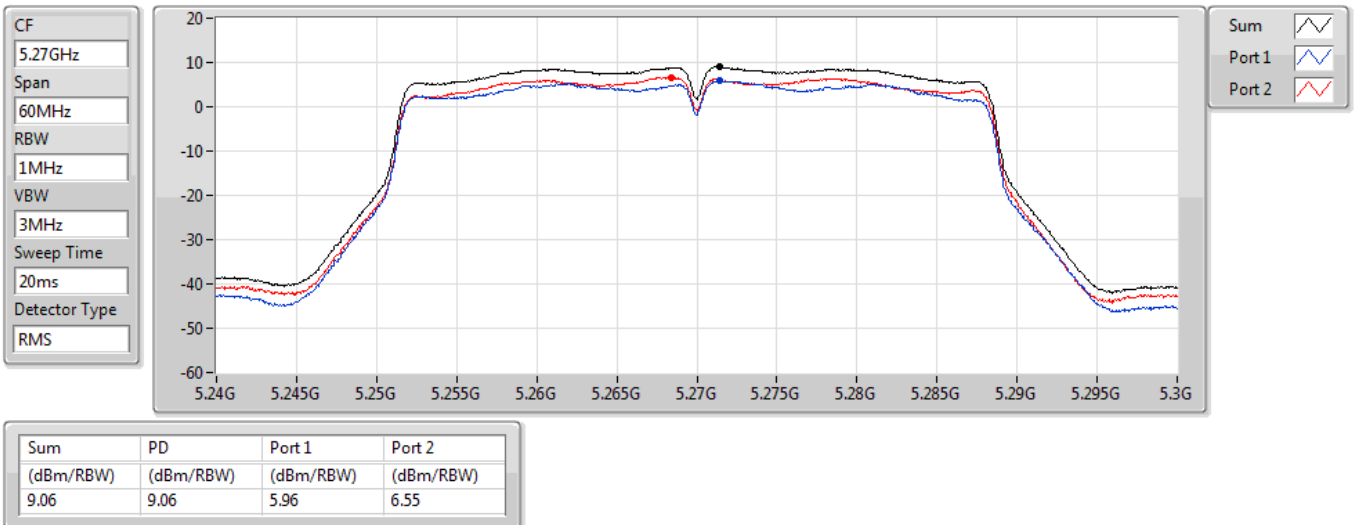


## 802.11ac VHT40\_Nss1,(MCS0)\_2TX

### 5270MHz

PSD

24/12/2020

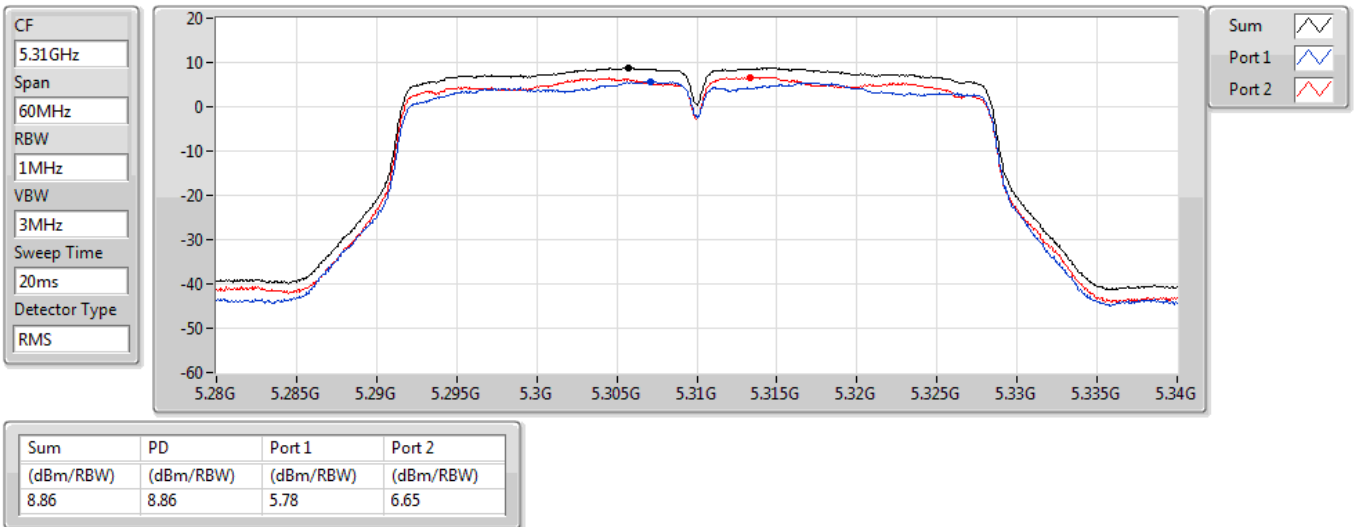


## 802.11ac VHT40\_Nss1,(MCS0)\_2TX

## PSD

5310MHz

24/12/2020

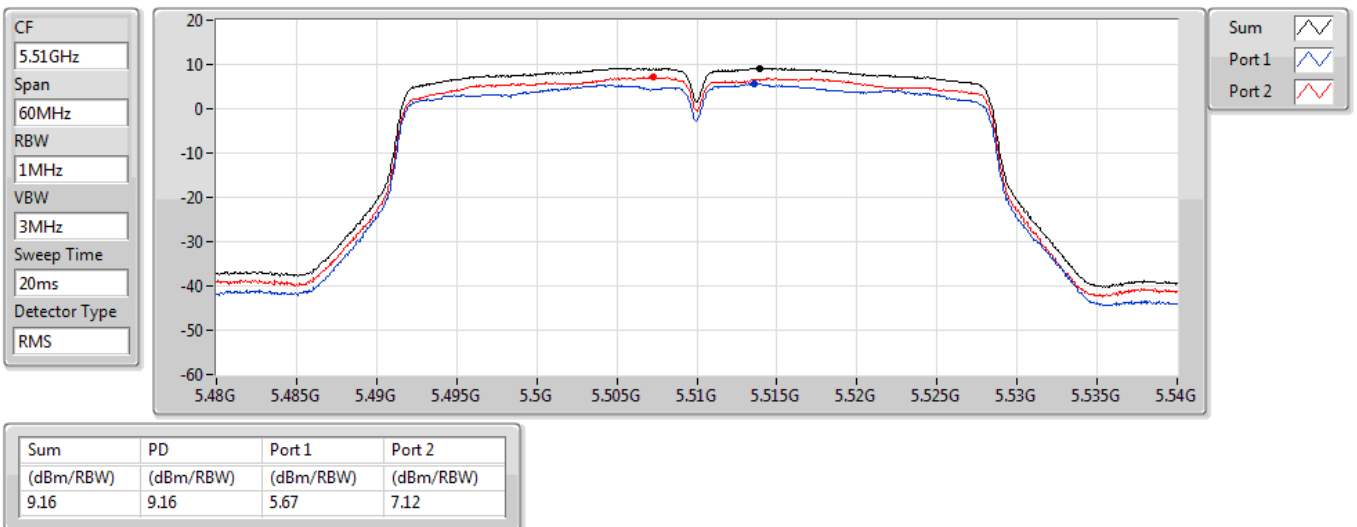


## 802.11ac VHT40\_Nss1,(MCS0)\_2TX

## PSD

5510MHz

24/12/2020

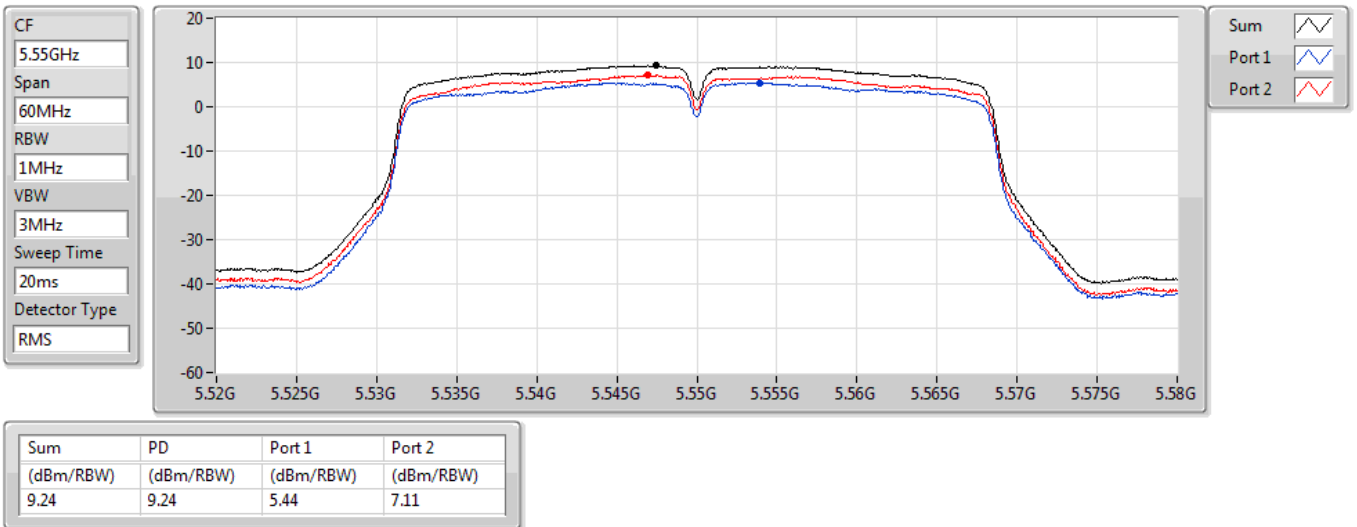


## 802.11ac VHT40\_Nss1,(MCS0)\_2TX

## PSD

5550MHz

24/12/2020

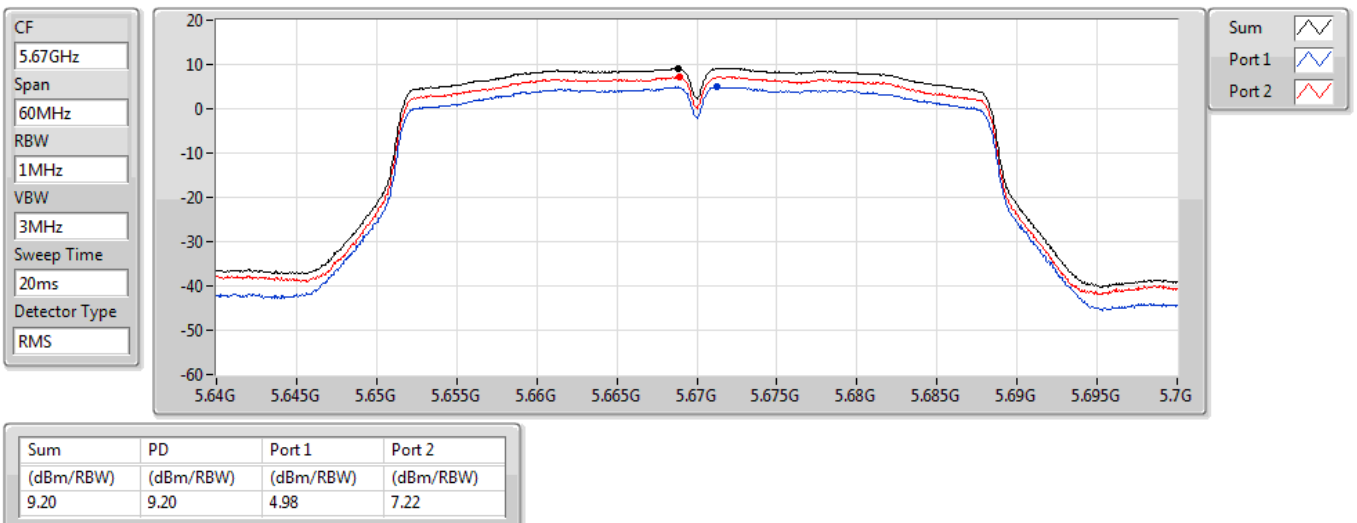


## 802.11ac VHT40\_Nss1,(MCS0)\_2TX

## PSD

5670MHz

24/12/2020

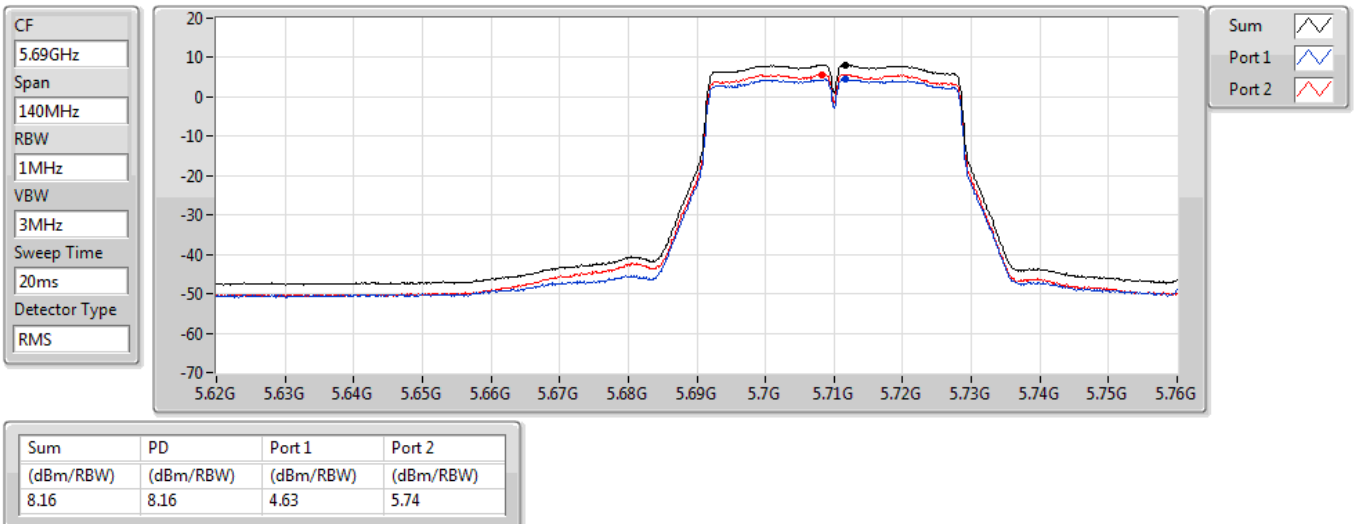


## 802.11ac VHT40\_Nss1,(MCS0)\_2TX

### 5710MHz Straddle 5.47-5.725GHz

## PSD

24/12/2020

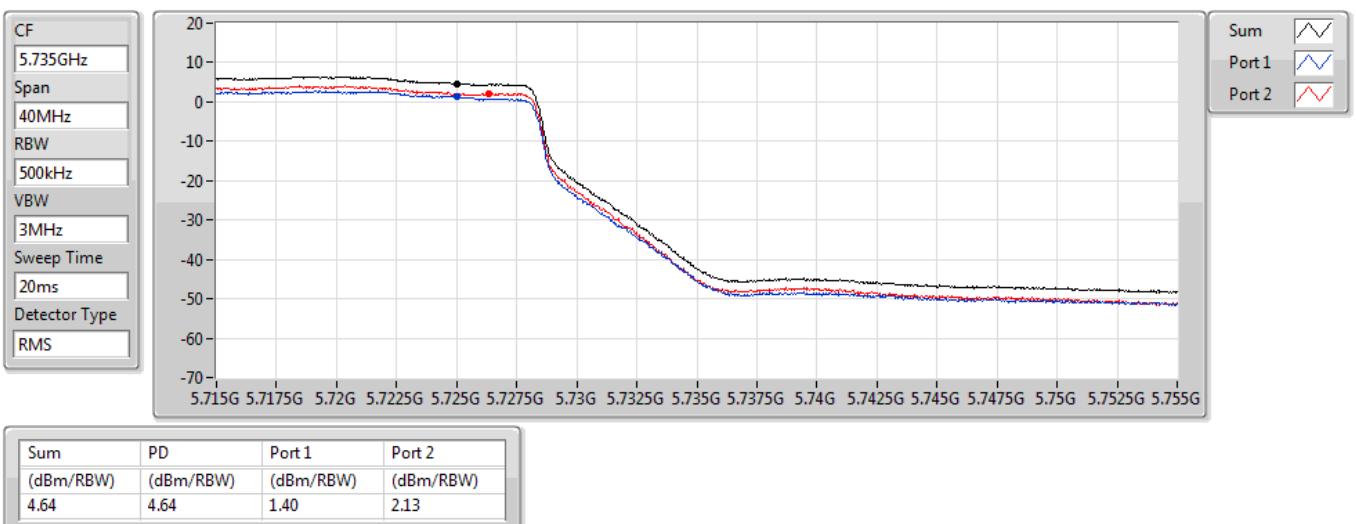


## 802.11ac VHT40\_Nss1,(MCS0)\_2TX

### 5710MHz Straddle 5.725-5.85GHz

## PSD

24/12/2020

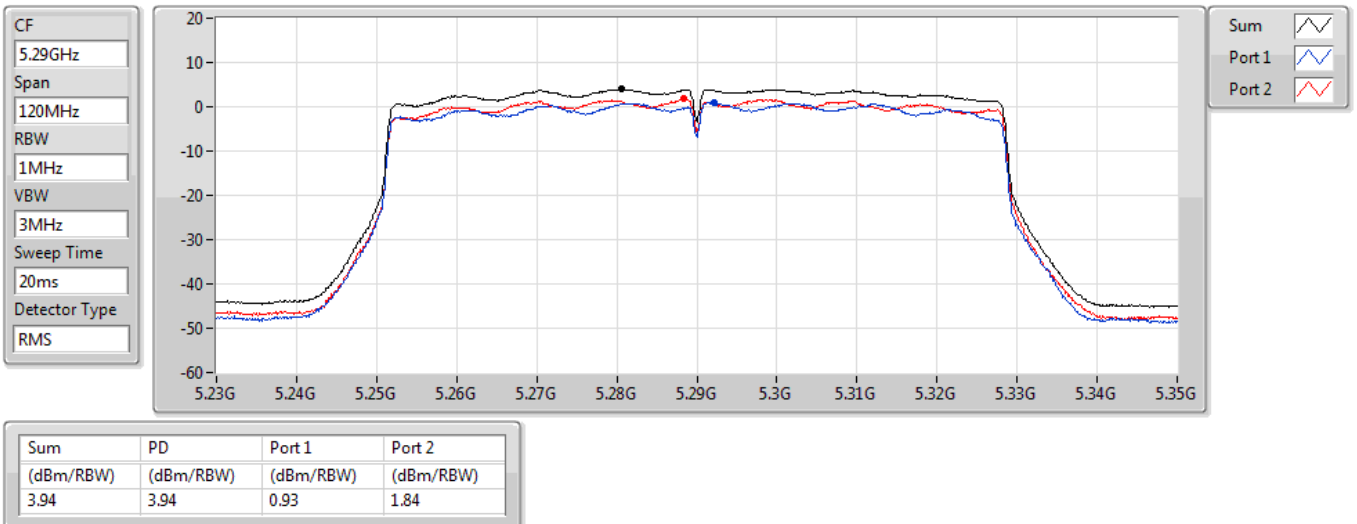


## 802.11ac VHT80\_Nss1,(MCS0)\_2TX

## PSD

5290MHz

24/12/2020

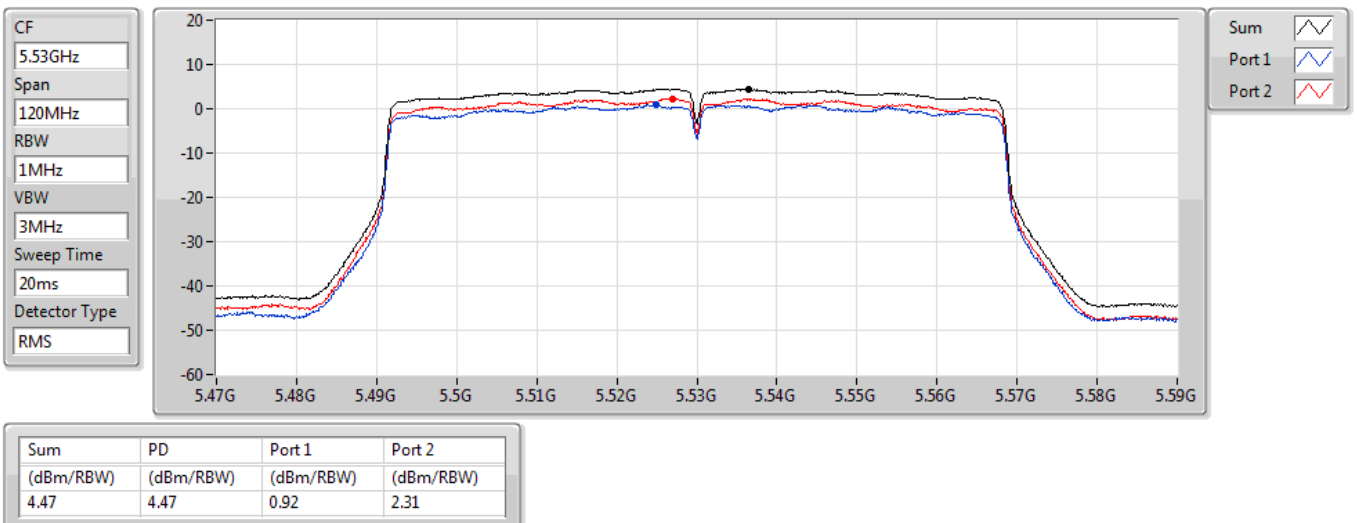


## 802.11ac VHT80\_Nss1,(MCS0)\_2TX

## PSD

5530MHz

24/12/2020

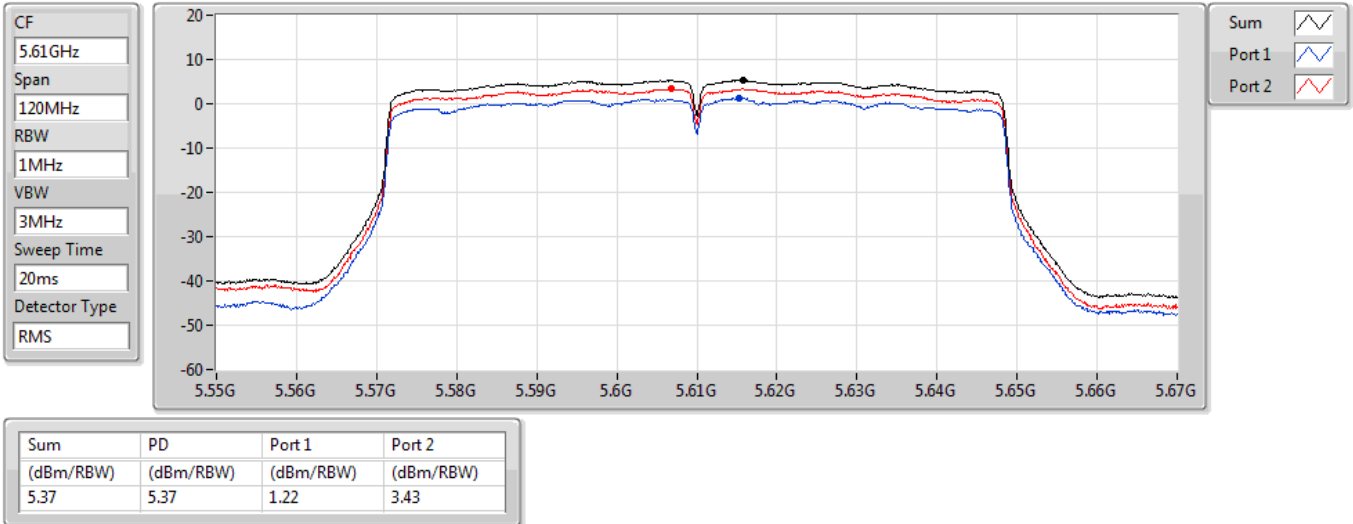


## 802.11ac VHT80\_Nss1,(MCS0)\_2TX

## PSD

5610MHz

24/12/2020

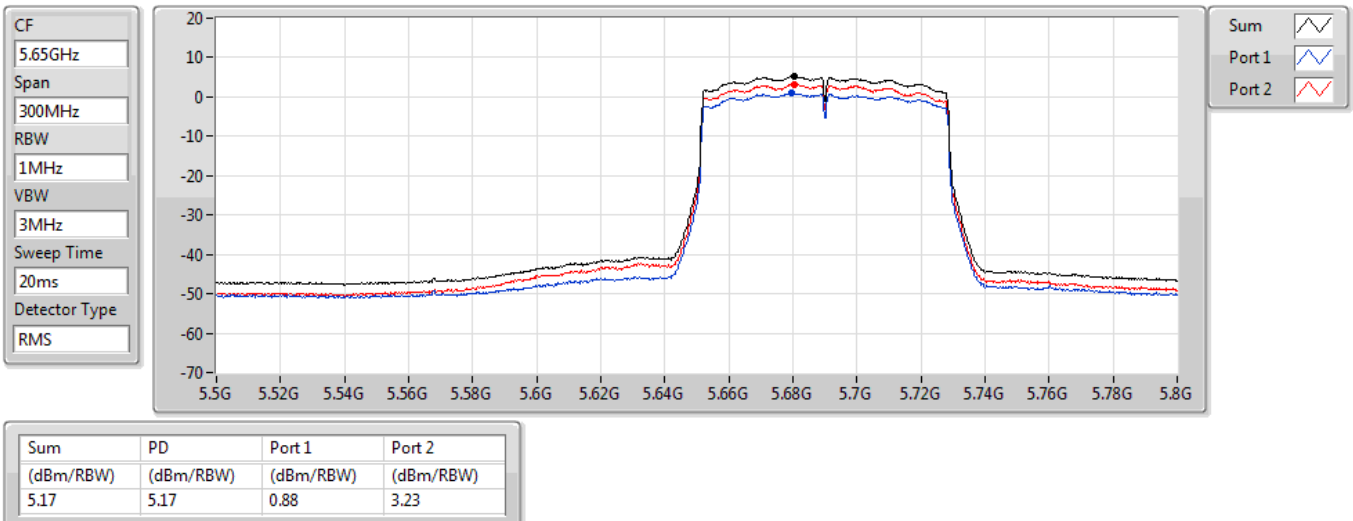


## 802.11ac VHT80\_Nss1,(MCS0)\_2TX

## PSD

5690MHz Straddle 5.47-5.725GHz

24/12/2020



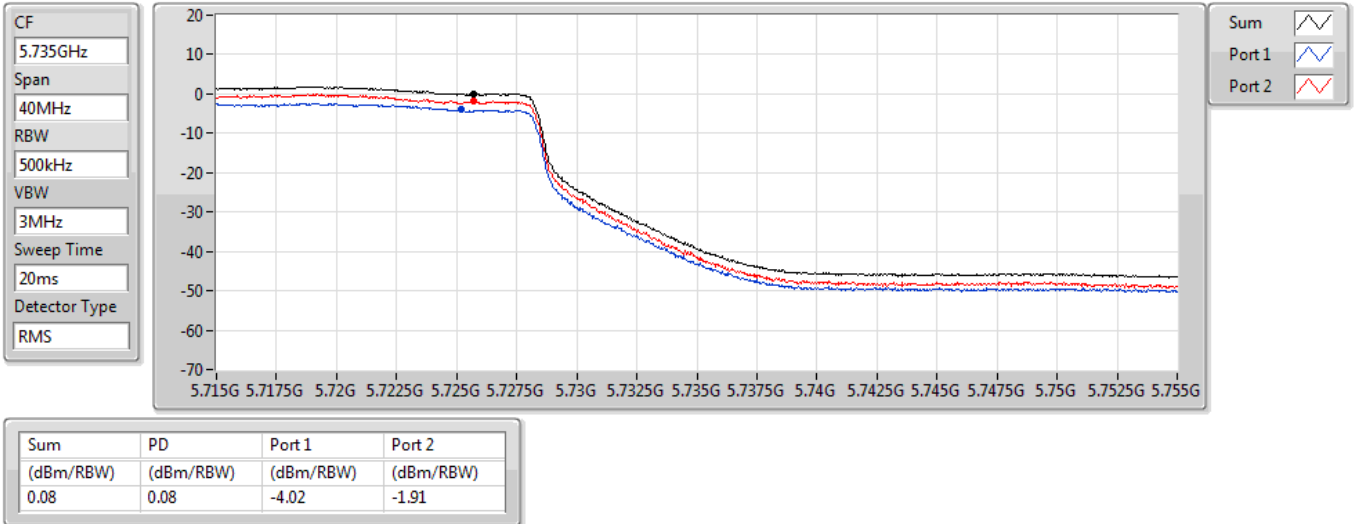


## 802.11ac VHT80\_Nss1,(MCS0)\_2TX

### 5690MHz Straddle 5.725-5.85GHz

## PSD

24/12/2020

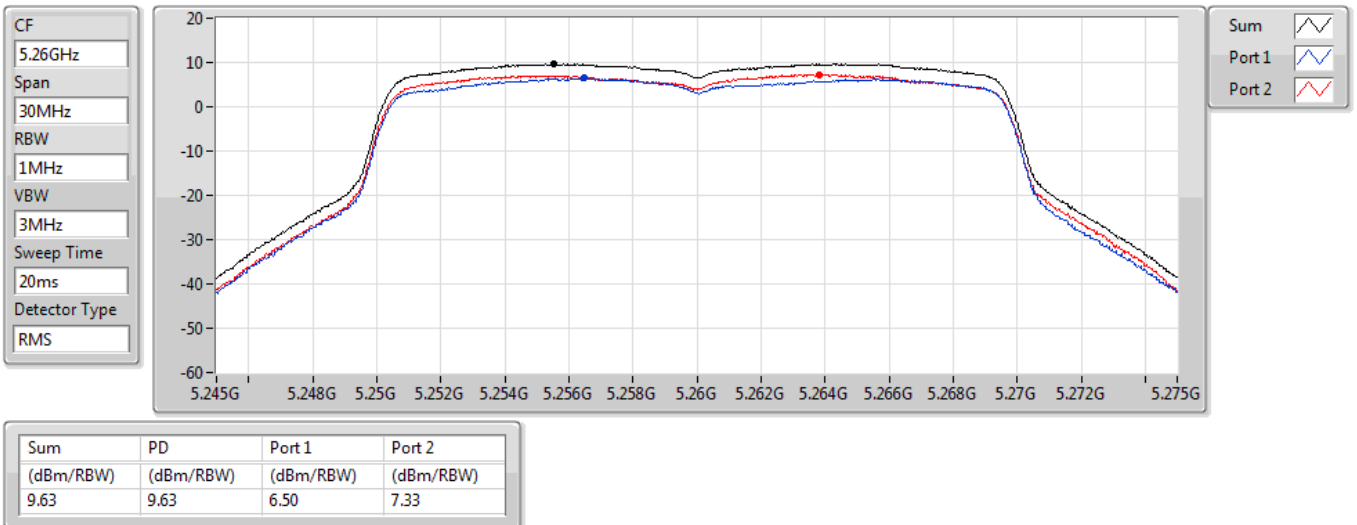


## 802.11ax HEW20\_Nss1,(MCS0)\_2TX

### 5260MHz

## PSD

24/12/2020

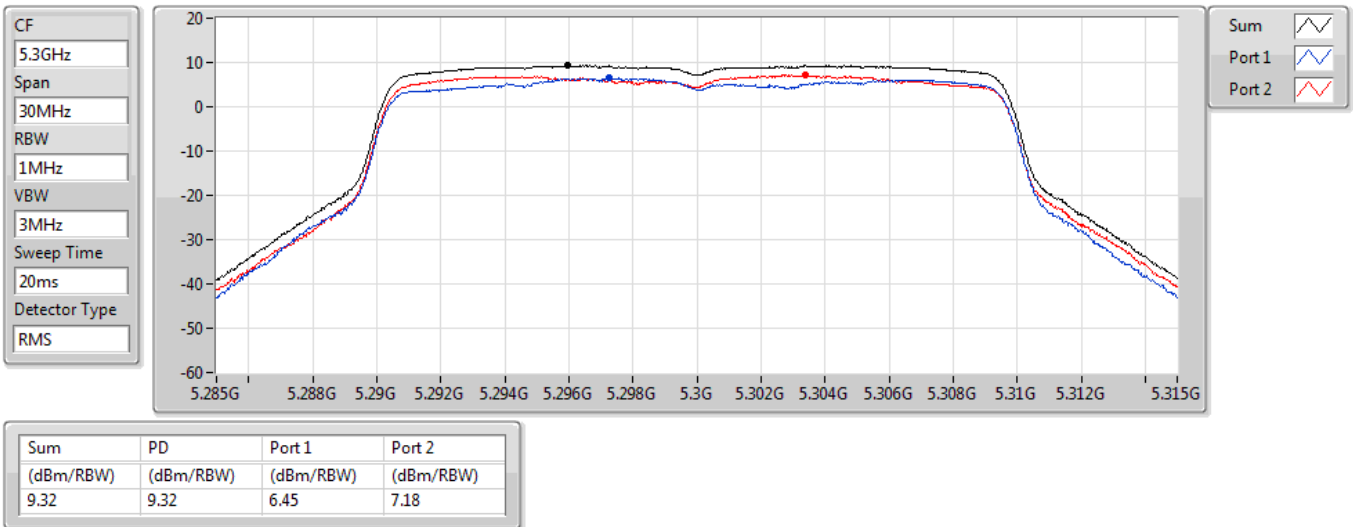


## 802.11ax HEW20\_Nss1,(MCS0)\_2TX

## PSD

5300MHz

24/12/2020

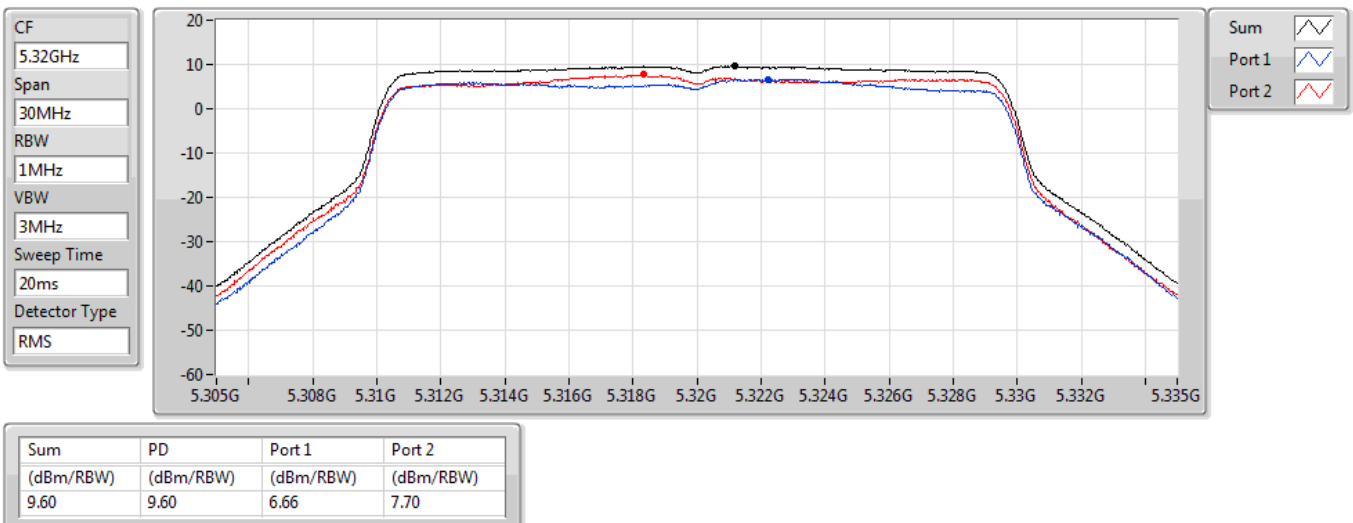


## 802.11ax HEW20\_Nss1,(MCS0)\_2TX

## PSD

5320MHz

24/12/2020

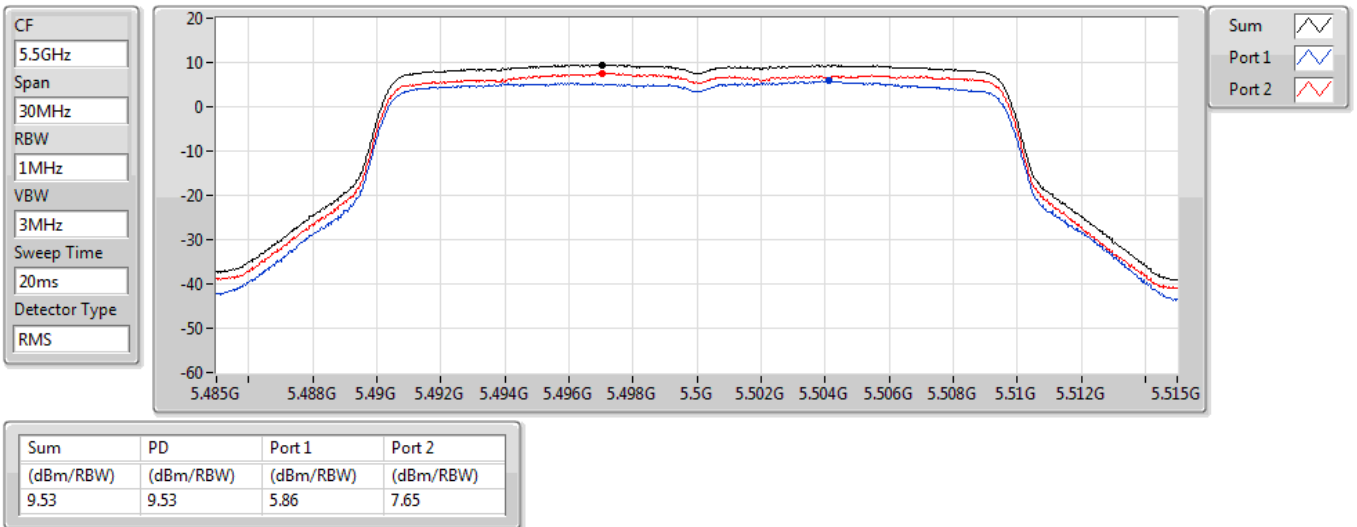


## 802.11ax HEW20\_Nss1,(MCS0)\_2TX

## PSD

5500MHz

24/12/2020

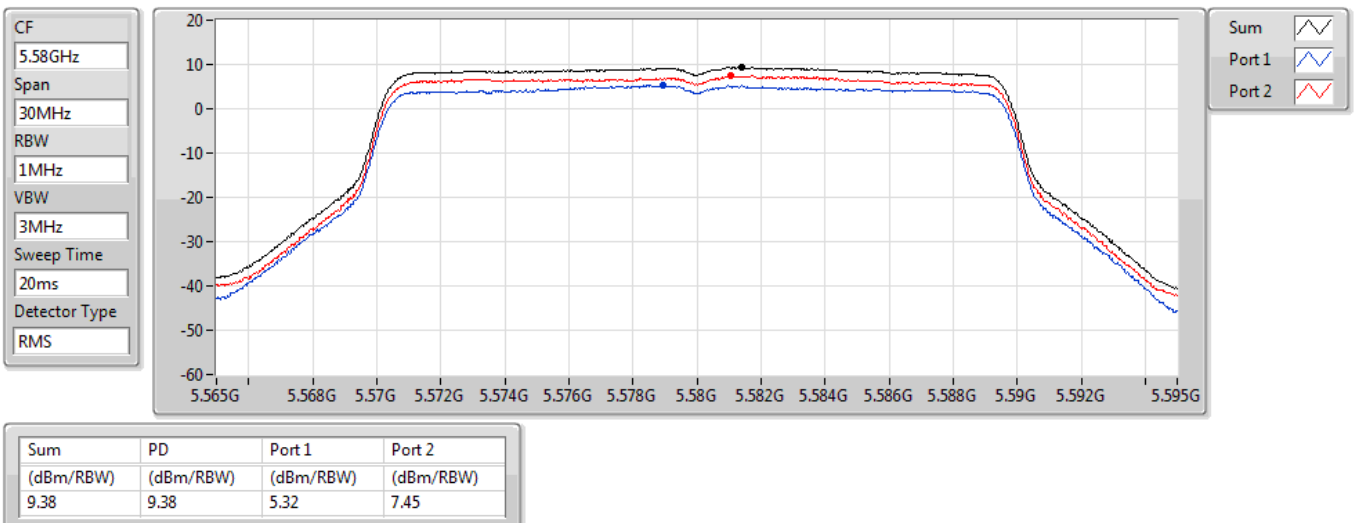


## 802.11ax HEW20\_Nss1,(MCS0)\_2TX

## PSD

5580MHz

24/12/2020

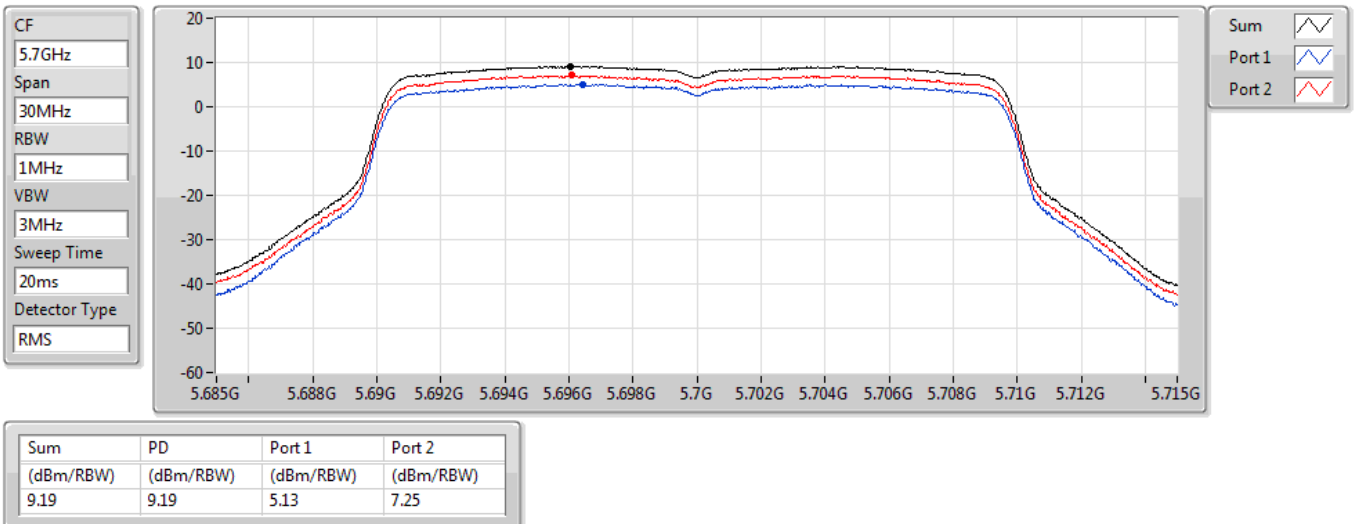


## 802.11ax HEW20\_Nss1,(MCS0)\_2TX

## PSD

5700MHz

24/12/2020

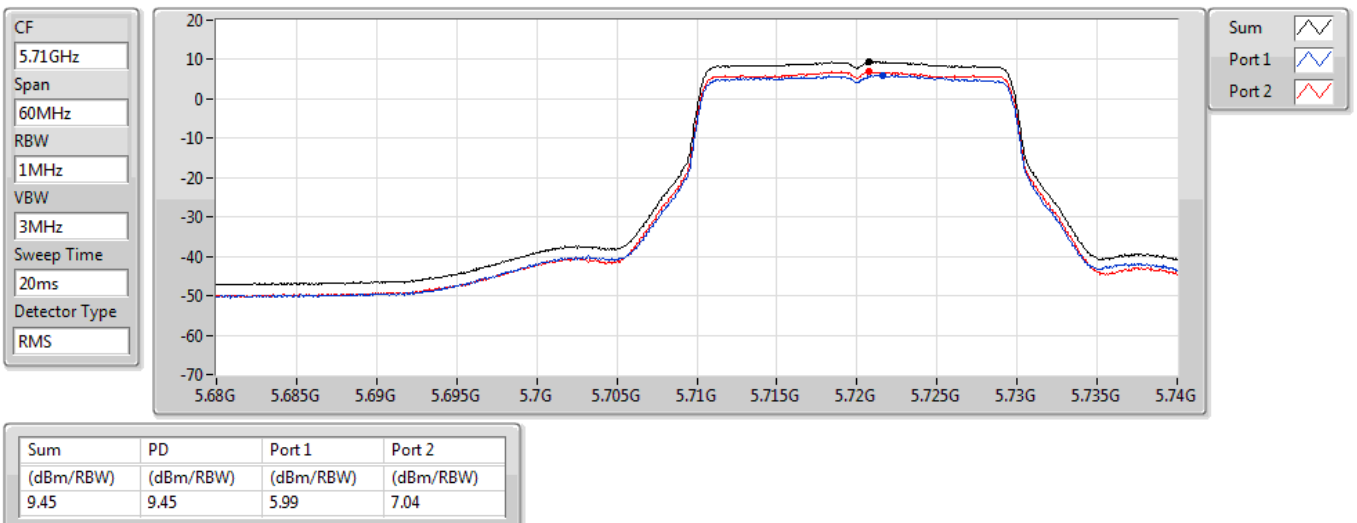


## 802.11ax HEW20\_Nss1,(MCS0)\_2TX

## PSD

5720MHz Straddle 5.47-5.725GHz

24/12/2020

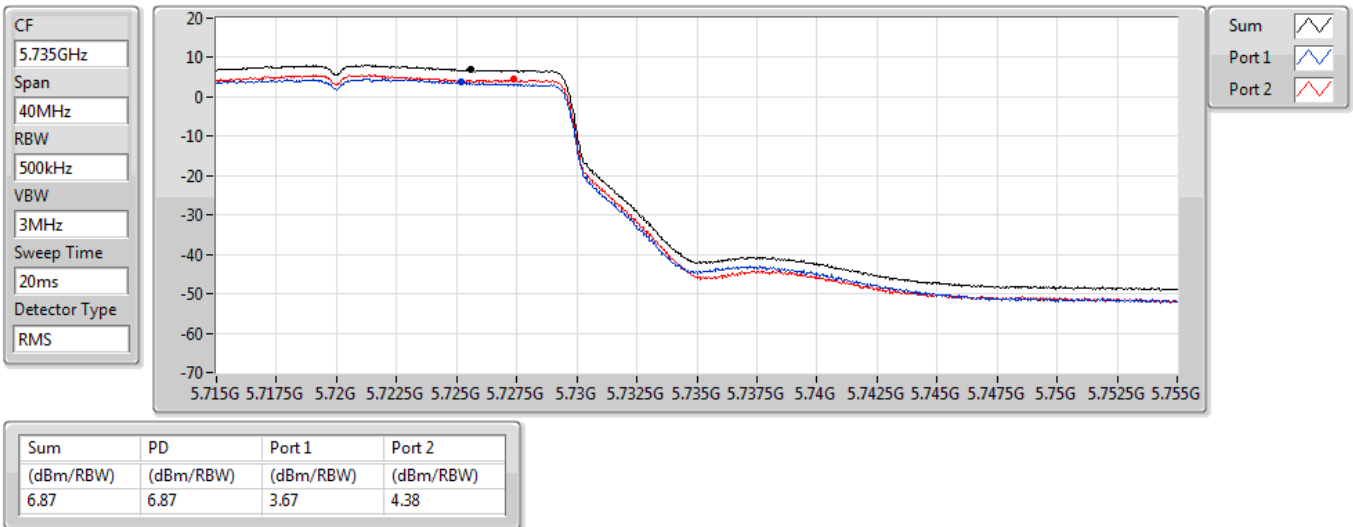


## 802.11ax HEW20\_Nss1,(MCS0)\_2TX

### 5720MHz Straddle 5.725-5.85GHz

## PSD

24/12/2020

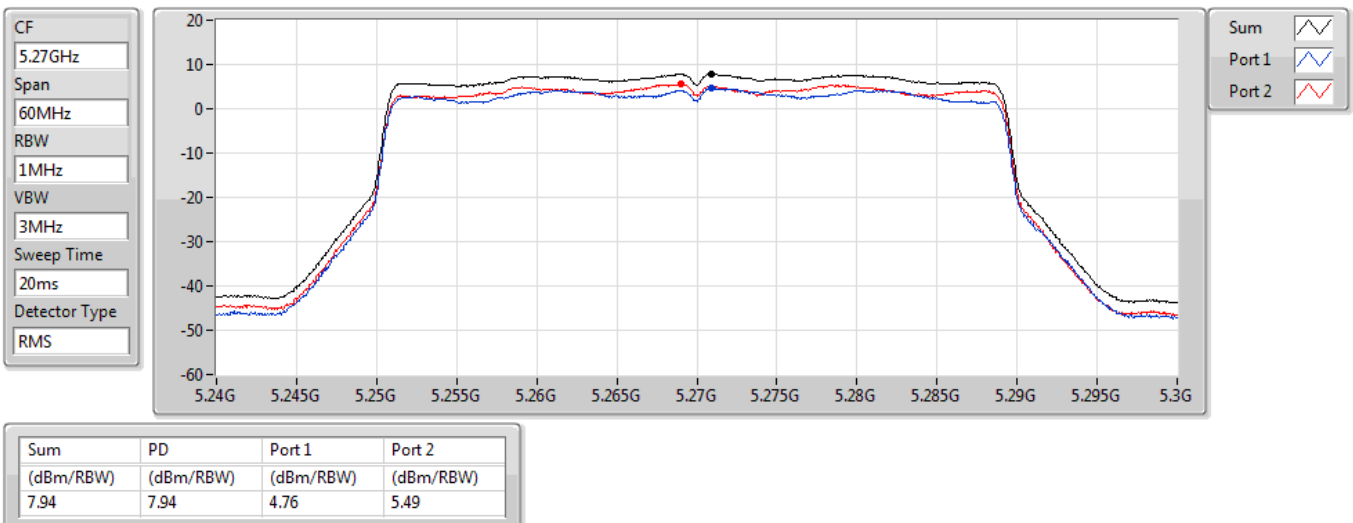


## 802.11ax HEW40\_Nss1,(MCS0)\_2TX

### 5270MHz

## PSD

24/12/2020

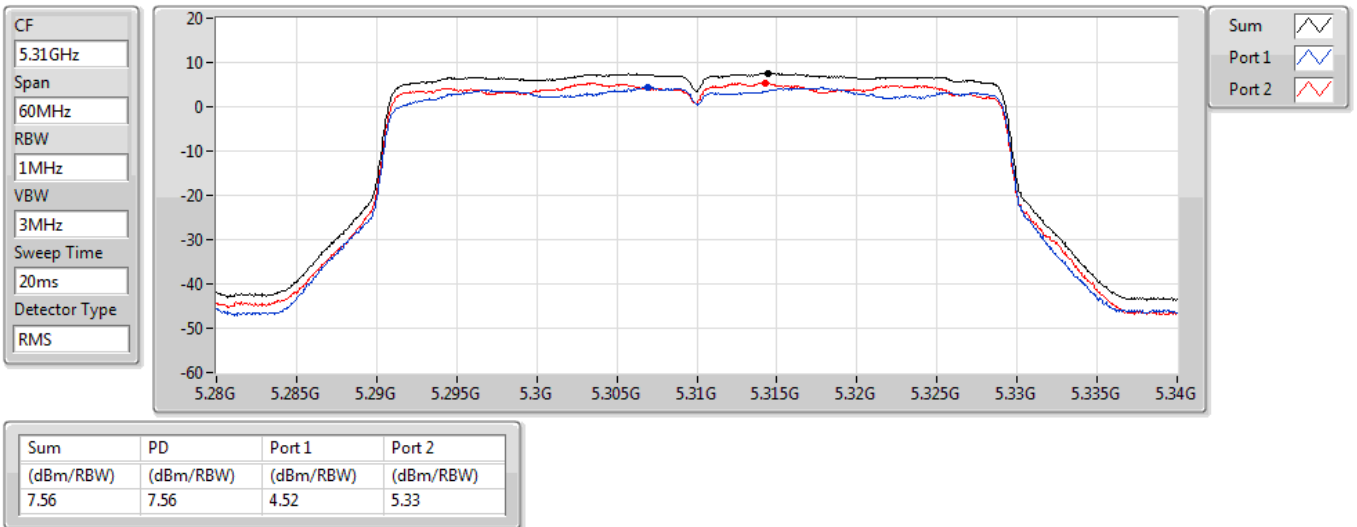


## 802.11ax HEW40\_Nss1,(MCS0)\_2TX

## PSD

5310MHz

24/12/2020

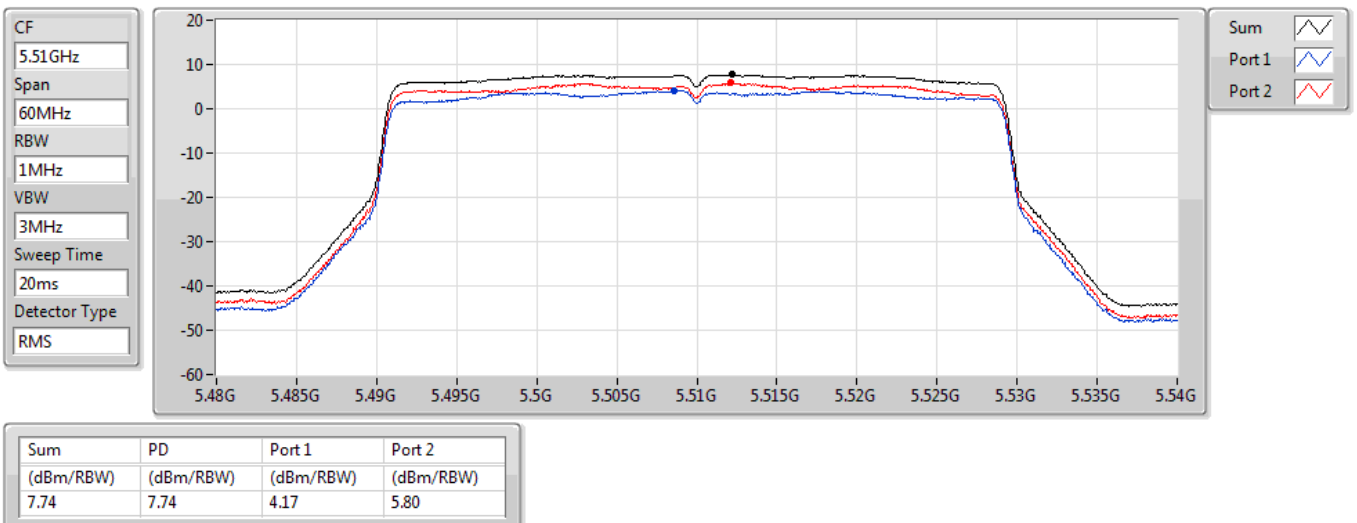


## 802.11ax HEW40\_Nss1,(MCS0)\_2TX

## PSD

5510MHz

24/12/2020

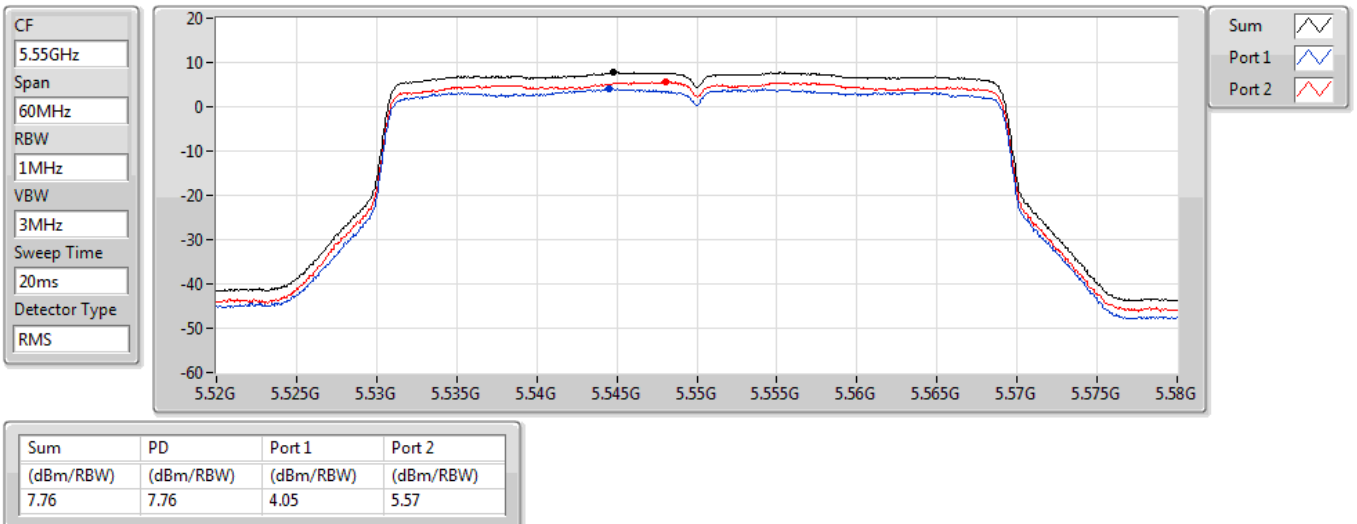


## 802.11ax HEW40\_Nss1,(MCS0)\_2TX

## PSD

5550MHz

24/12/2020

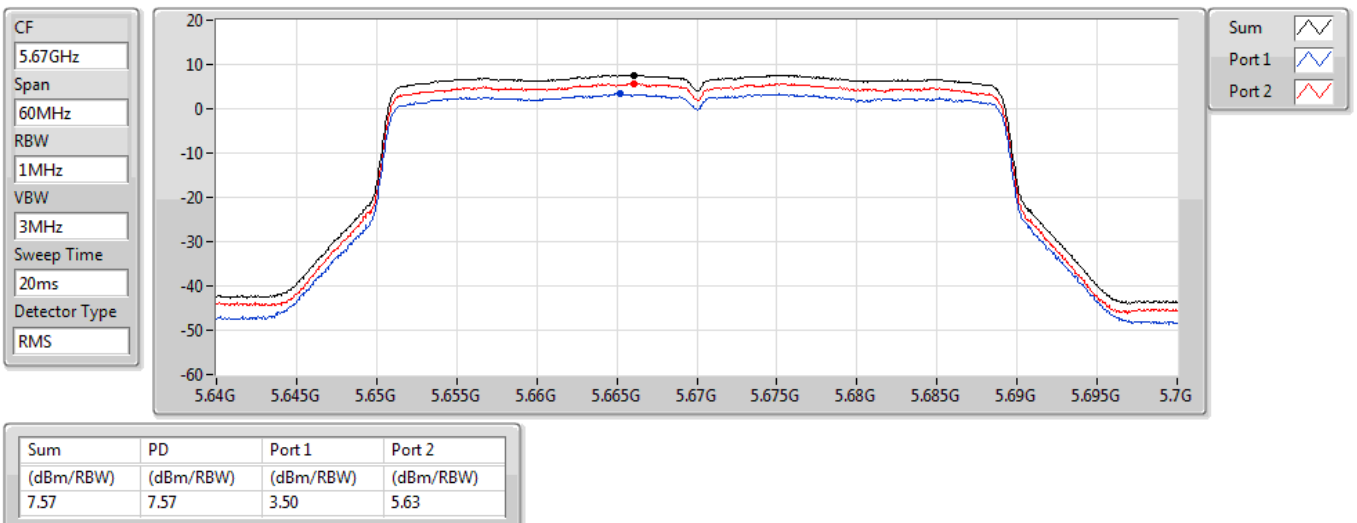


## 802.11ax HEW40\_Nss1,(MCS0)\_2TX

## PSD

5670MHz

24/12/2020

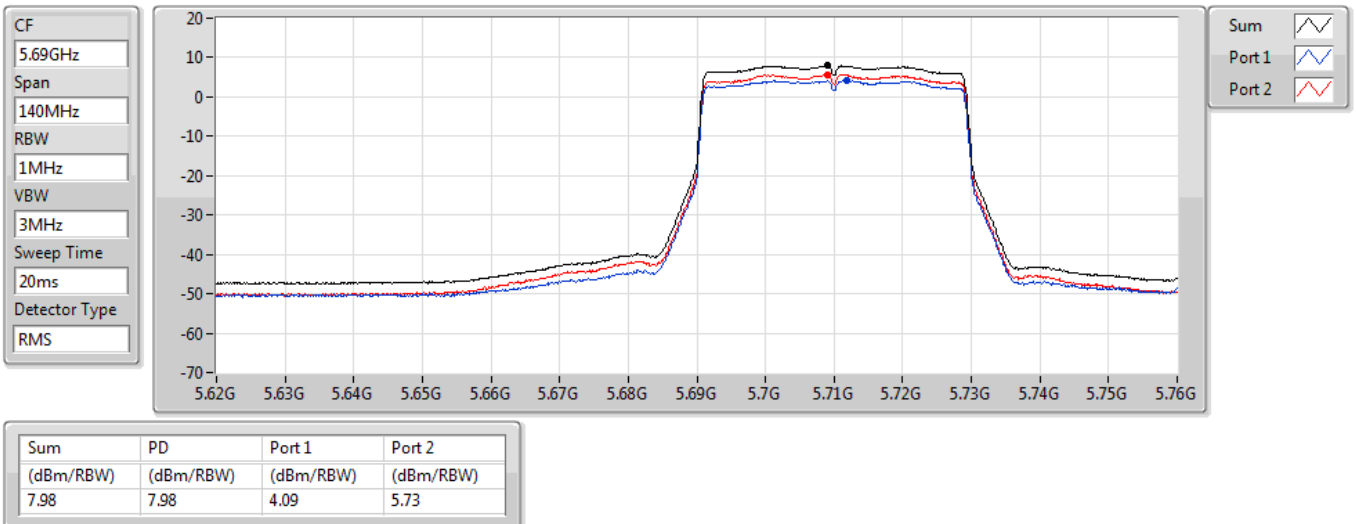


## 802.11ax HEW40\_Nss1,(MCS0)\_2TX

### 5710MHz Straddle 5.47-5.725GHz

PSD

24/12/2020

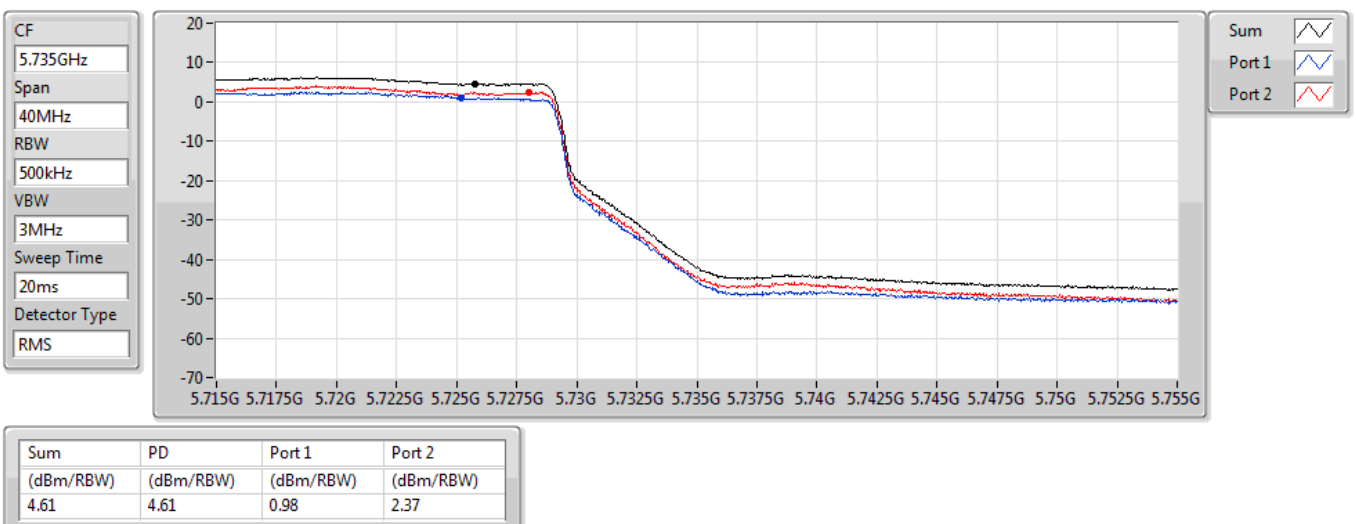


## 802.11ax HEW40\_Nss1,(MCS0)\_2TX

### 5710MHz Straddle 5.725-5.85GHz

PSD

24/12/2020



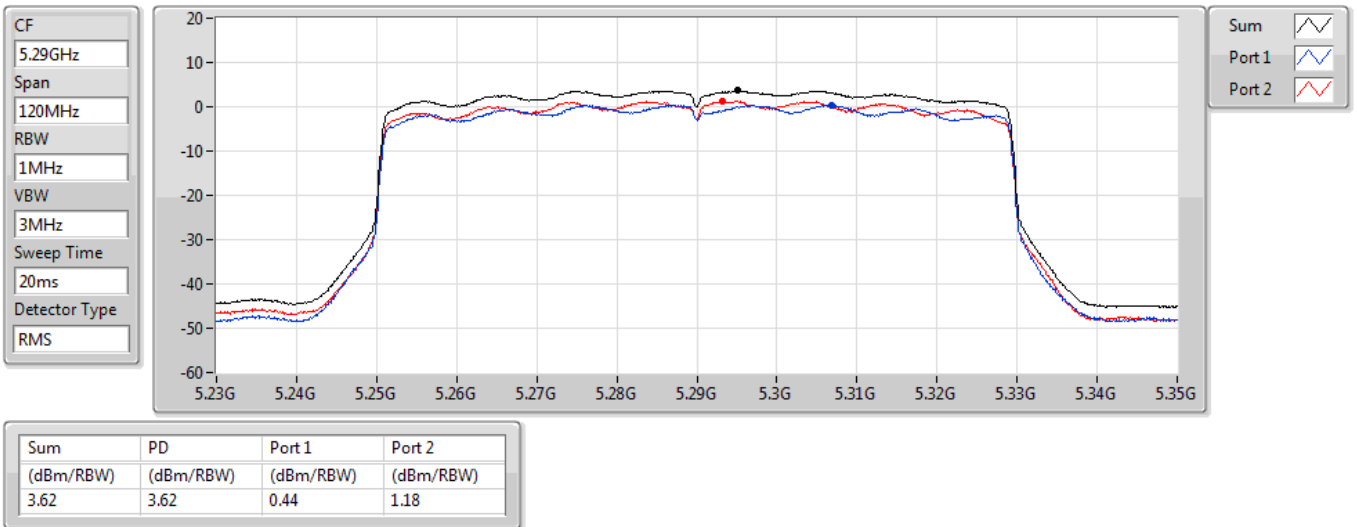


## 802.11ax HEW80\_Nss1,(MCS0)\_2TX

## PSD

5290MHz

24/12/2020

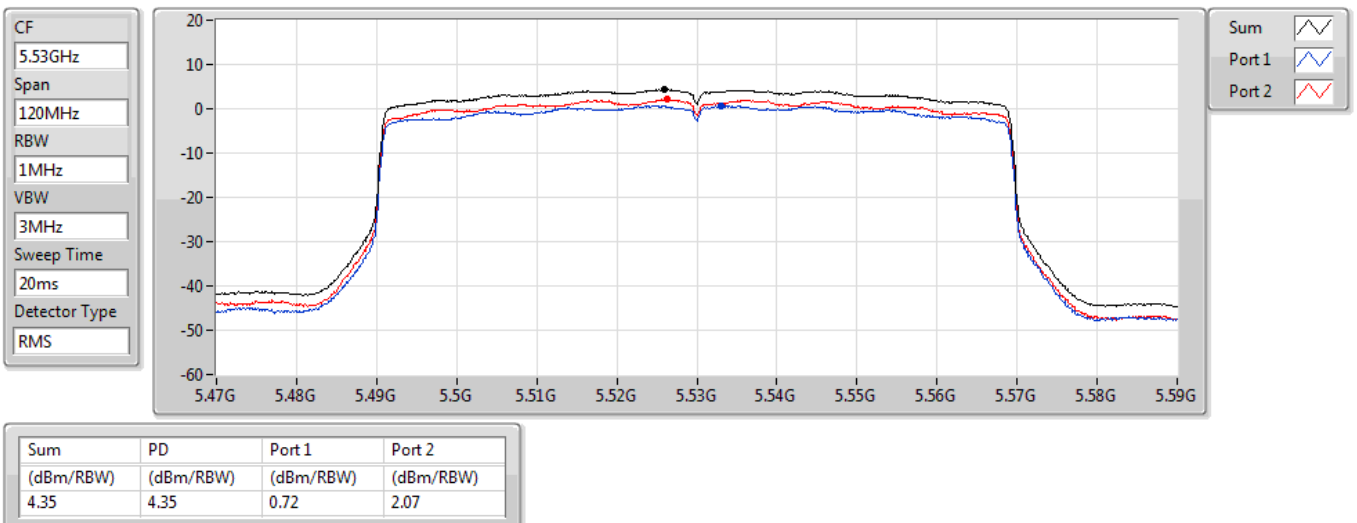


## 802.11ax HEW80\_Nss1,(MCS0)\_2TX

## PSD

5530MHz

24/12/2020

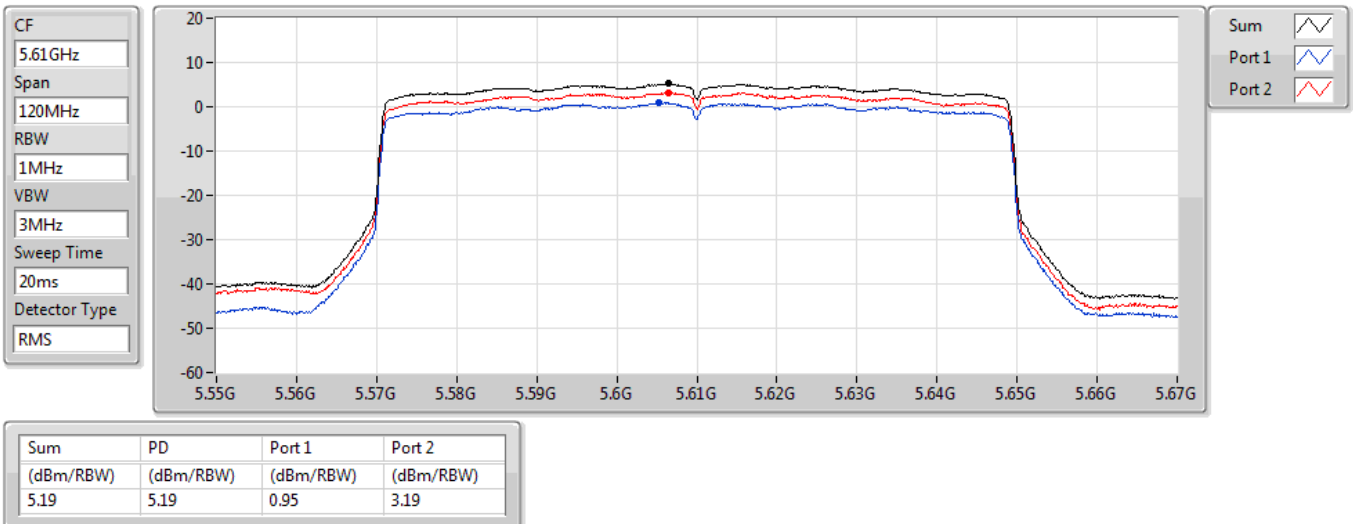


## 802.11ax HEW80\_Nss1,(MCS0)\_2TX

## PSD

5610MHz

24/12/2020

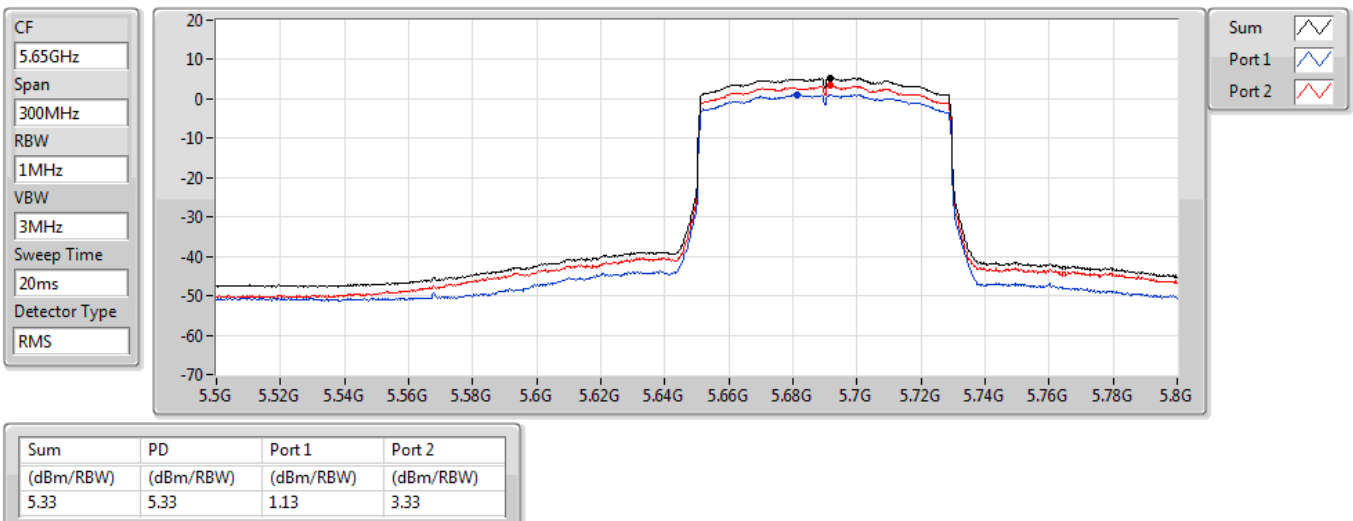


## 802.11ax HEW80\_Nss1,(MCS0)\_2TX

## PSD

5690MHz Straddle 5.47-5.725GHz

24/12/2020

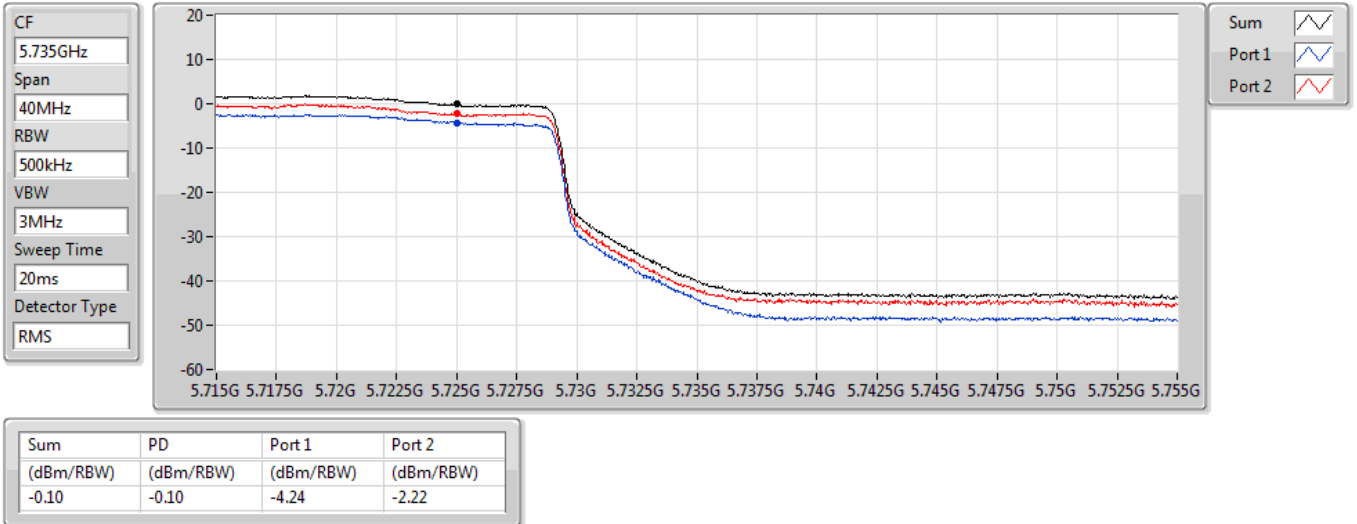


## 802.11ax HEW80\_Nss1,(MCS0)\_2TX

### 5690MHz Straddle 5.725-5.85GHz

## PSD

24/12/2020



**Summary**

| Mode                           | PD<br>(dBm/RBW) | EIRP PD<br>(dBm/RBW) |
|--------------------------------|-----------------|----------------------|
| 5.25-5.35GHz                   | -               | -                    |
| 802.11a_Nss1,(6Mbps)_1TX       | 9.32            | 13.48                |
| 802.11n HT20_Nss1,(MCS0)_1TX   | 8.80            | 12.96                |
| 802.11n HT40_Nss1,(MCS0)_1TX   | 5.42            | 9.58                 |
| 802.11ac VHT20_Nss1,(MCS0)_1TX | 8.53            | 12.69                |
| 802.11ac VHT40_Nss1,(MCS0)_1TX | 5.67            | 9.83                 |
| 802.11ac VHT80_Nss1,(MCS0)_1TX | -7.71           | -3.55                |
| 5.47-5.725GHz                  | -               | -                    |
| 802.11a_Nss1,(6Mbps)_1TX       | 8.47            | 12.63                |
| 802.11n HT20_Nss1,(MCS0)_1TX   | 8.15            | 12.31                |
| 802.11n HT40_Nss1,(MCS0)_1TX   | 4.74            | 8.90                 |
| 802.11ac VHT20_Nss1,(MCS0)_1TX | 8.02            | 12.18                |
| 802.11ac VHT40_Nss1,(MCS0)_1TX | 5.00            | 9.16                 |
| 802.11ac VHT80_Nss1,(MCS0)_1TX | 0.38            | 4.54                 |
| 5.725-5.85GHz                  | -               | -                    |
| 802.11a_Nss1,(6Mbps)_1TX       | 5.16            | 9.32                 |
| 802.11n HT20_Nss1,(MCS0)_1TX   | 4.54            | 8.70                 |
| 802.11n HT40_Nss1,(MCS0)_1TX   | 0.55            | 4.71                 |
| 802.11ac VHT20_Nss1,(MCS0)_1TX | 4.61            | 8.77                 |
| 802.11ac VHT40_Nss1,(MCS0)_1TX | 0.51            | 4.67                 |
| 802.11ac VHT80_Nss1,(MCS0)_1TX | -2.99           | 1.17                 |

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

**Result**

| Mode                           | Result | DG<br>(dBi) | Port 1<br>(dBm/RBW) | PD<br>(dBm/RBW) | PD Limit<br>(dBm/RBW) | EIRP PD<br>(dBm/RBW) | EIRP PD Limit<br>(dBm/RBW) |
|--------------------------------|--------|-------------|---------------------|-----------------|-----------------------|----------------------|----------------------------|
| 802.11a_Nss1,(6Mbps)_1TX       | -      | -           | -                   | -               | -                     | -                    | -                          |
| 5260MHz                        | Pass   | 4.16        | 8.09                | 8.09            | 11.00                 | 12.25                | 17.00                      |
| 5300MHz                        | Pass   | 4.16        | 9.32                | 9.32            | 11.00                 | 13.48                | 17.00                      |
| 5320MHz                        | Pass   | 4.16        | 7.10                | 7.10            | 11.00                 | 11.26                | 17.00                      |
| 5500MHz                        | Pass   | 4.16        | 6.21                | 6.21            | 11.00                 | 10.37                | 17.00                      |
| 5580MHz                        | Pass   | 4.16        | 8.47                | 8.47            | 11.00                 | 12.63                | 17.00                      |
| 5700MHz                        | Pass   | 4.16        | 6.15                | 6.15            | 11.00                 | 10.31                | 17.00                      |
| 5720MHz Straddle 5.47-5.725GHz | Pass   | 4.16        | 6.98                | 6.98            | 11.00                 | 11.14                | 17.00                      |
| 5720MHz Straddle 5.725-5.85GHz | Pass   | 4.16        | 5.16                | 5.16            | 30.00                 | 9.32                 | 36.00                      |
| 802.11n HT20_Nss1,(MCS0)_1TX   | -      | -           | -                   | -               | -                     | -                    | -                          |
| 5260MHz                        | Pass   | 4.16        | 7.89                | 7.89            | 11.00                 | 12.05                | 17.00                      |
| 5300MHz                        | Pass   | 4.16        | 8.80                | 8.80            | 11.00                 | 12.96                | 17.00                      |
| 5320MHz                        | Pass   | 4.16        | 6.28                | 6.28            | 11.00                 | 10.44                | 17.00                      |
| 5500MHz                        | Pass   | 4.16        | 5.56                | 5.56            | 11.00                 | 9.72                 | 17.00                      |
| 5580MHz                        | Pass   | 4.16        | 8.15                | 8.15            | 11.00                 | 12.31                | 17.00                      |
| 5700MHz                        | Pass   | 4.16        | 6.44                | 6.44            | 11.00                 | 10.60                | 17.00                      |
| 5720MHz Straddle 5.47-5.725GHz | Pass   | 4.16        | 6.35                | 6.35            | 11.00                 | 10.51                | 17.00                      |
| 5720MHz Straddle 5.725-5.85GHz | Pass   | 4.16        | 4.54                | 4.54            | 30.00                 | 8.70                 | 36.00                      |
| 802.11n HT40_Nss1,(MCS0)_1TX   | -      | -           | -                   | -               | -                     | -                    | -                          |
| 5270MHz                        | Pass   | 4.16        | 5.42                | 5.42            | 11.00                 | 9.58                 | 17.00                      |
| 5310MHz                        | Pass   | 4.16        | 2.54                | 2.54            | 11.00                 | 6.70                 | 17.00                      |
| 5510MHz                        | Pass   | 4.16        | 0.85                | 0.85            | 11.00                 | 5.01                 | 17.00                      |
| 5550MHz                        | Pass   | 4.16        | 4.74                | 4.74            | 11.00                 | 8.90                 | 17.00                      |
| 5670MHz                        | Pass   | 4.16        | 3.51                | 3.51            | 11.00                 | 7.67                 | 17.00                      |
| 5710MHz Straddle 5.47-5.725GHz | Pass   | 4.16        | 2.88                | 2.88            | 11.00                 | 7.04                 | 17.00                      |
| 5710MHz Straddle 5.725-5.85GHz | Pass   | 4.16        | 0.55                | 0.55            | 30.00                 | 4.71                 | 36.00                      |
| 802.11ac VHT20_Nss1,(MCS0)_1TX | -      | -           | -                   | -               | -                     | -                    | -                          |
| 5260MHz                        | Pass   | 4.16        | 7.78                | 7.78            | 11.00                 | 11.94                | 17.00                      |
| 5300MHz                        | Pass   | 4.16        | 8.53                | 8.53            | 11.00                 | 12.69                | 17.00                      |
| 5320MHz                        | Pass   | 4.16        | 6.08                | 6.08            | 11.00                 | 10.24                | 17.00                      |
| 5500MHz                        | Pass   | 4.16        | 5.45                | 5.45            | 11.00                 | 9.61                 | 17.00                      |
| 5580MHz                        | Pass   | 4.16        | 8.02                | 8.02            | 11.00                 | 12.18                | 17.00                      |
| 5700MHz                        | Pass   | 4.16        | 5.88                | 5.88            | 11.00                 | 10.04                | 17.00                      |
| 5720MHz Straddle 5.47-5.725GHz | Pass   | 4.16        | 6.28                | 6.28            | 11.00                 | 10.44                | 17.00                      |
| 5720MHz Straddle 5.725-5.85GHz | Pass   | 4.16        | 4.61                | 4.61            | 30.00                 | 8.77                 | 36.00                      |
| 802.11ac VHT40_Nss1,(MCS0)_1TX | -      | -           | -                   | -               | -                     | -                    | -                          |
| 5270MHz                        | Pass   | 4.16        | 5.67                | 5.67            | 11.00                 | 9.83                 | 17.00                      |
| 5310MHz                        | Pass   | 4.16        | 2.63                | 2.63            | 11.00                 | 6.79                 | 17.00                      |
| 5510MHz                        | Pass   | 4.16        | 1.13                | 1.13            | 11.00                 | 5.29                 | 17.00                      |
| 5550MHz                        | Pass   | 4.16        | 5.00                | 5.00            | 11.00                 | 9.16                 | 17.00                      |
| 5670MHz                        | Pass   | 4.16        | 3.06                | 3.06            | 11.00                 | 7.22                 | 17.00                      |
| 5710MHz Straddle 5.47-5.725GHz | Pass   | 4.16        | 2.84                | 2.84            | 11.00                 | 7.00                 | 17.00                      |
| 5710MHz Straddle 5.725-5.85GHz | Pass   | 4.16        | 0.51                | 0.51            | 30.00                 | 4.67                 | 36.00                      |
| 802.11ac VHT80_Nss1,(MCS0)_1TX | -      | -           | -                   | -               | -                     | -                    | -                          |
| 5290MHz                        | Pass   | 4.16        | -7.71               | -7.71           | 11.00                 | -3.55                | 17.00                      |
| 5530MHz                        | Pass   | 4.16        | -7.93               | -7.93           | 11.00                 | -3.77                | 17.00                      |
| 5610MHz                        | Pass   | 4.16        | 0.08                | 0.08            | 11.00                 | 4.24                 | 17.00                      |
| 5690MHz Straddle 5.47-5.725GHz | Pass   | 4.16        | 0.38                | 0.38            | 11.00                 | 4.54                 | 17.00                      |
| 5690MHz Straddle 5.725-5.85GHz | Pass   | 4.16        | -2.99               | -2.99           | 30.00                 | 1.17                 | 36.00                      |

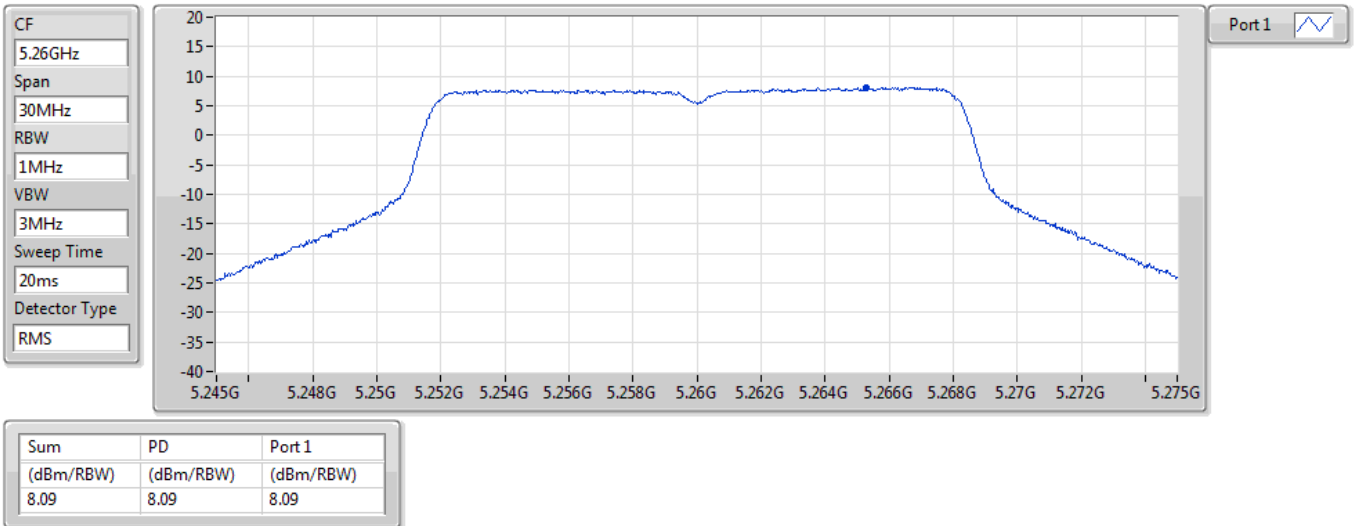
DG = Directional Gain; RBW = 500kHz for 5.725-5.85GHz band / 1MHz for other band;  
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; Port X = Port X Power Density;

## 802.11a\_Nss1,(6Mbps)\_1TX

## PSD

5260MHz

11/11/2020

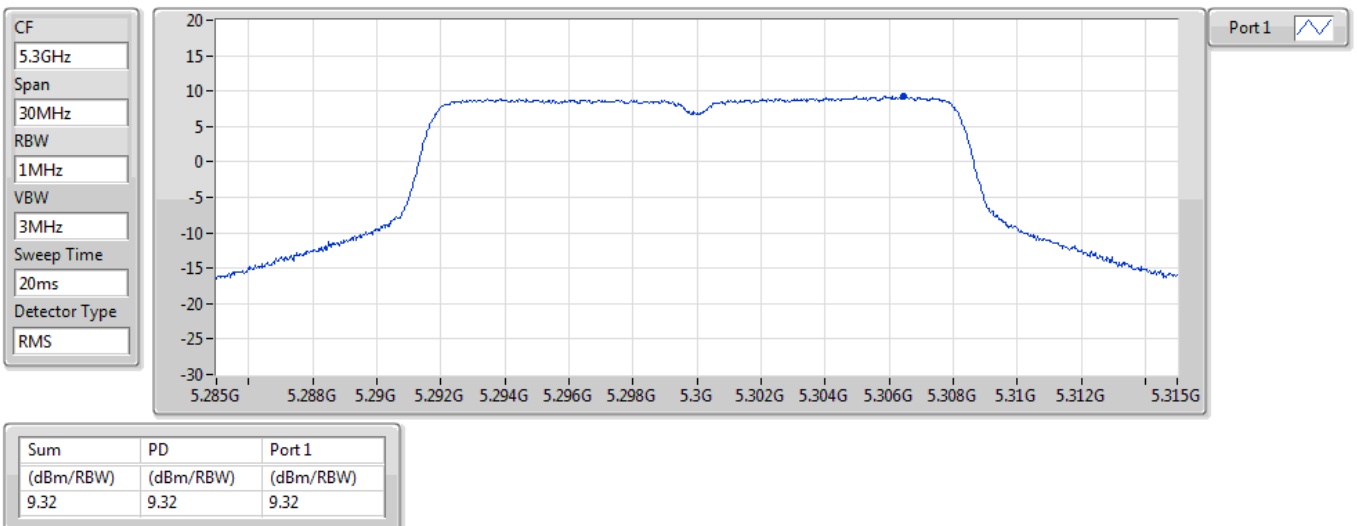


## 802.11a\_Nss1,(6Mbps)\_1TX

## PSD

5300MHz

11/11/2020

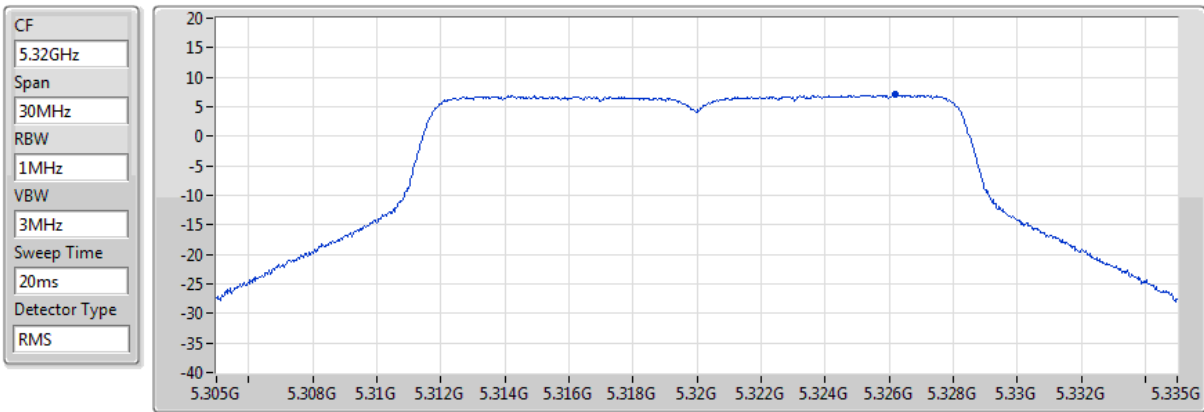


## 802.11a\_Nss1,(6Mbps)\_1TX

## PSD

5320MHz

11/11/2020



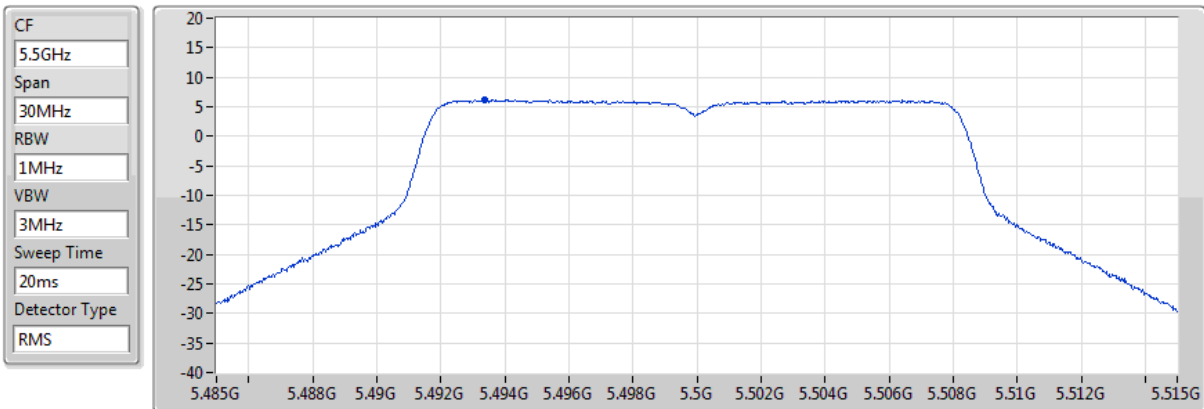
| Sum       | PD        | Port 1    |
|-----------|-----------|-----------|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| 7.10      | 7.10      | 7.10      |

## 802.11a\_Nss1,(6Mbps)\_1TX

## PSD

5500MHz

11/11/2020



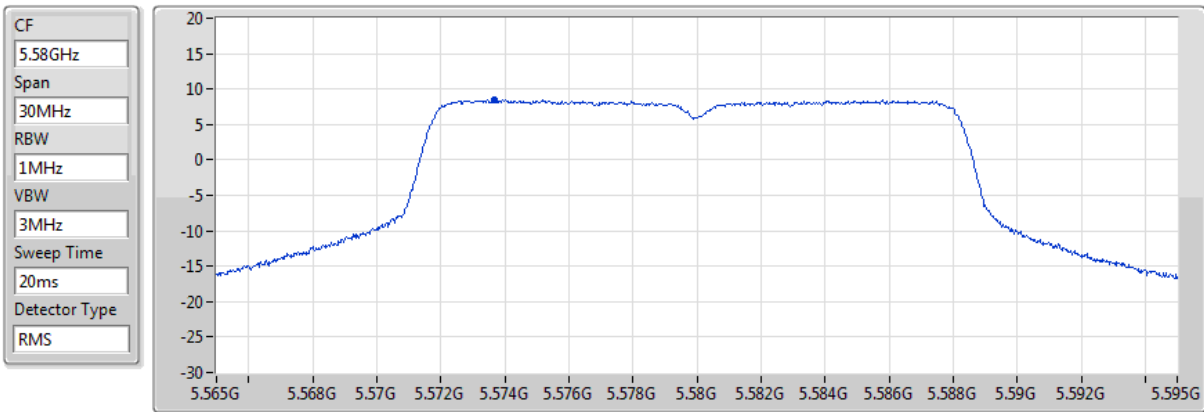
| Sum       | PD        | Port 1    |
|-----------|-----------|-----------|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| 6.21      | 6.21      | 6.21      |

## 802.11a\_Nss1,(6Mbps)\_1TX

## PSD

5580MHz

11/11/2020



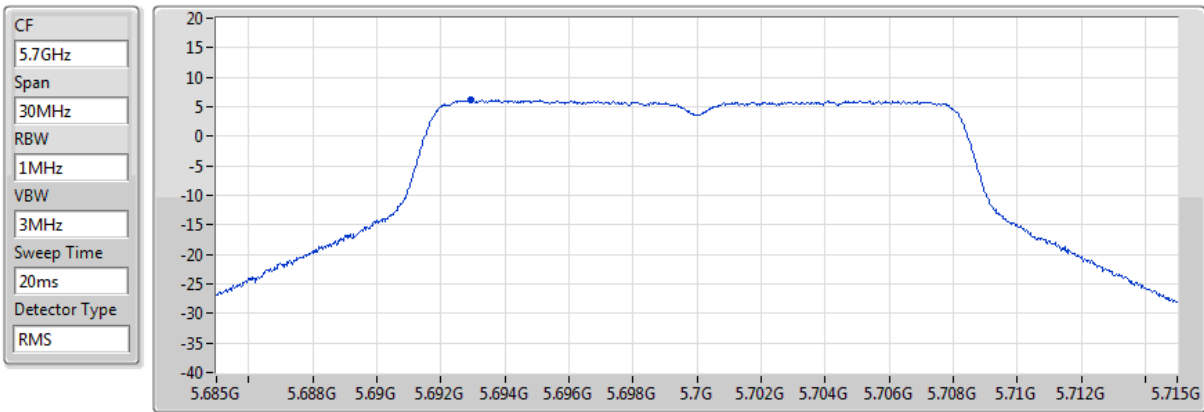
| Sum       | PD        | Port 1    |
|-----------|-----------|-----------|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| 8.47      | 8.47      | 8.47      |

## 802.11a\_Nss1,(6Mbps)\_1TX

## PSD

5700MHz

11/11/2020



| Sum       | PD        | Port 1    |
|-----------|-----------|-----------|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| 6.15      | 6.15      | 6.15      |

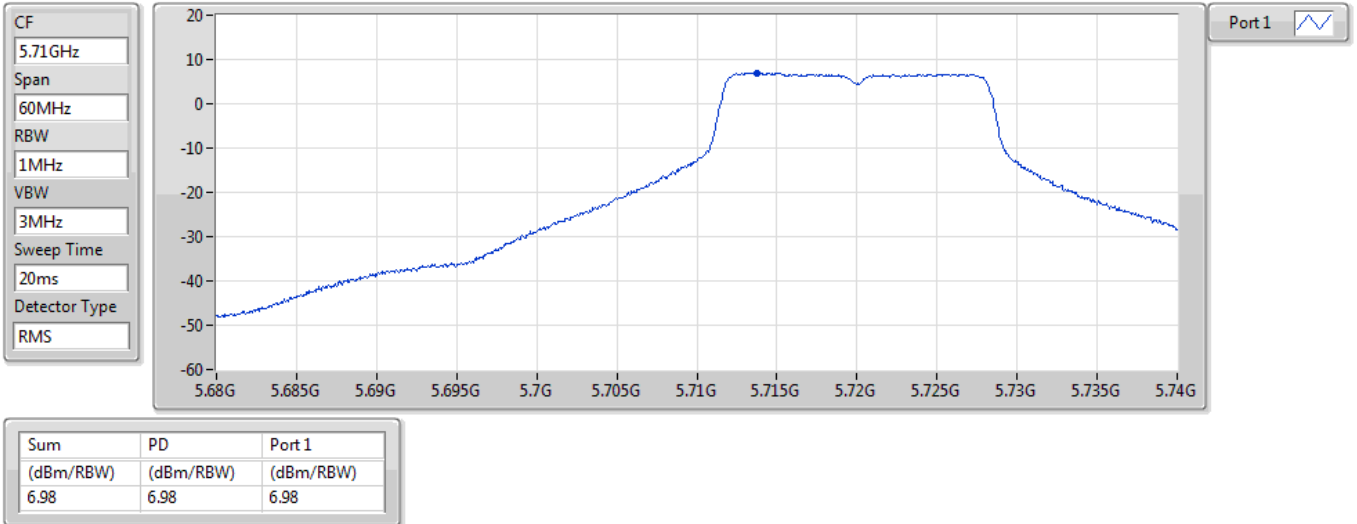


## 802.11a\_Nss1,(6Mbps)\_1TX

### 5720MHz Straddle 5.47-5.725GHz

PSD

11/11/2020

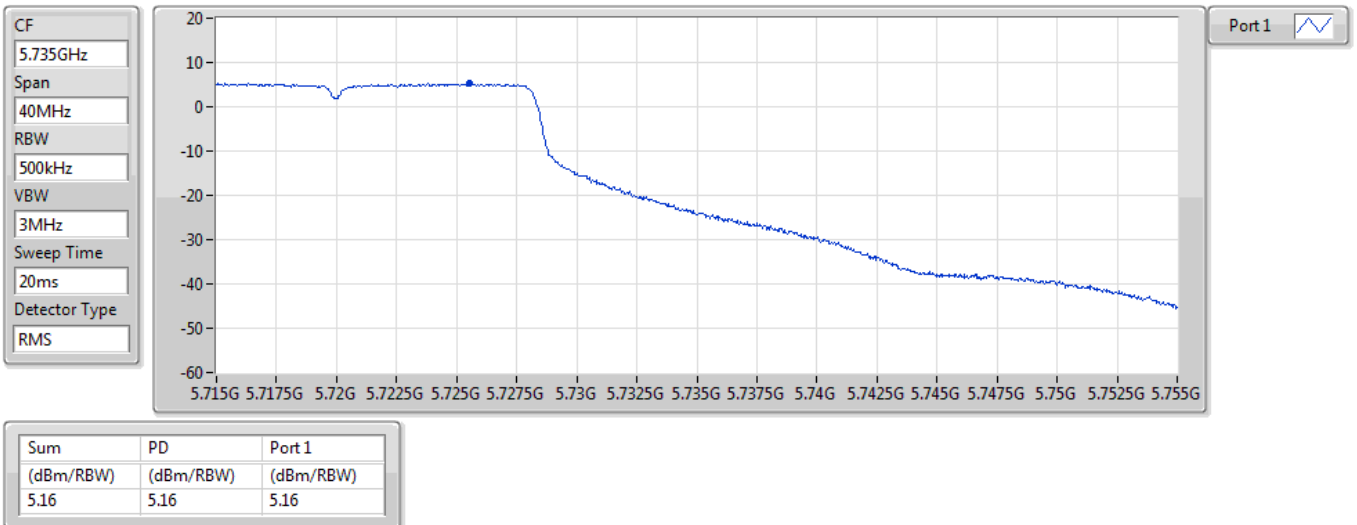


## 802.11a\_Nss1,(6Mbps)\_1TX

### 5720MHz Straddle 5.725-5.85GHz

PSD

11/11/2020

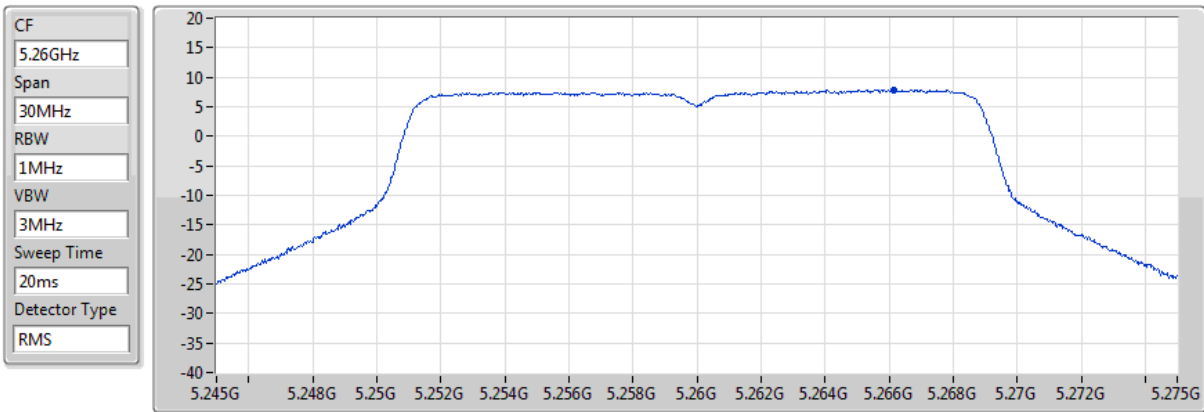


## 802.11n HT20\_Nss1,(MCS0)\_1TX

## PSD

5260MHz

24/12/2020



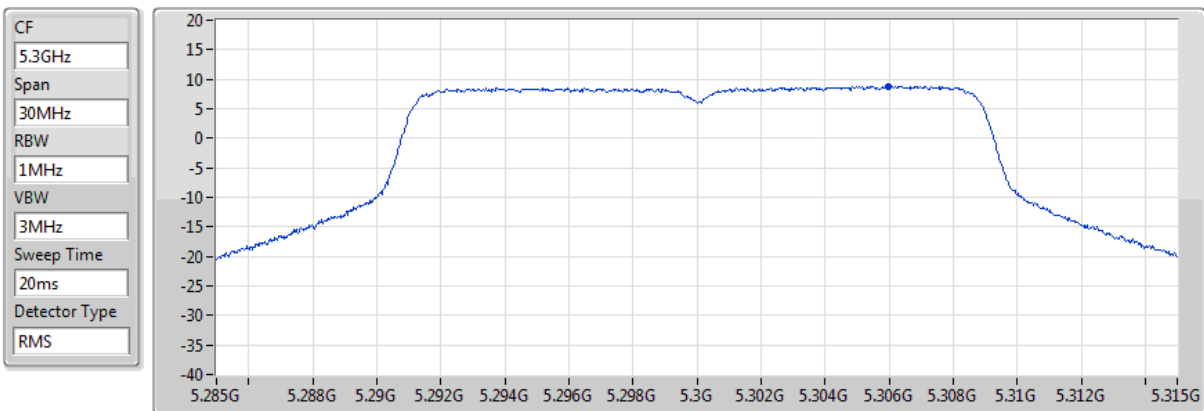
| Sum       | PD        | Port 1    |
|-----------|-----------|-----------|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| 7.89      | 7.89      | 7.89      |

## 802.11n HT20\_Nss1,(MCS0)\_1TX

## PSD

5300MHz

24/12/2020



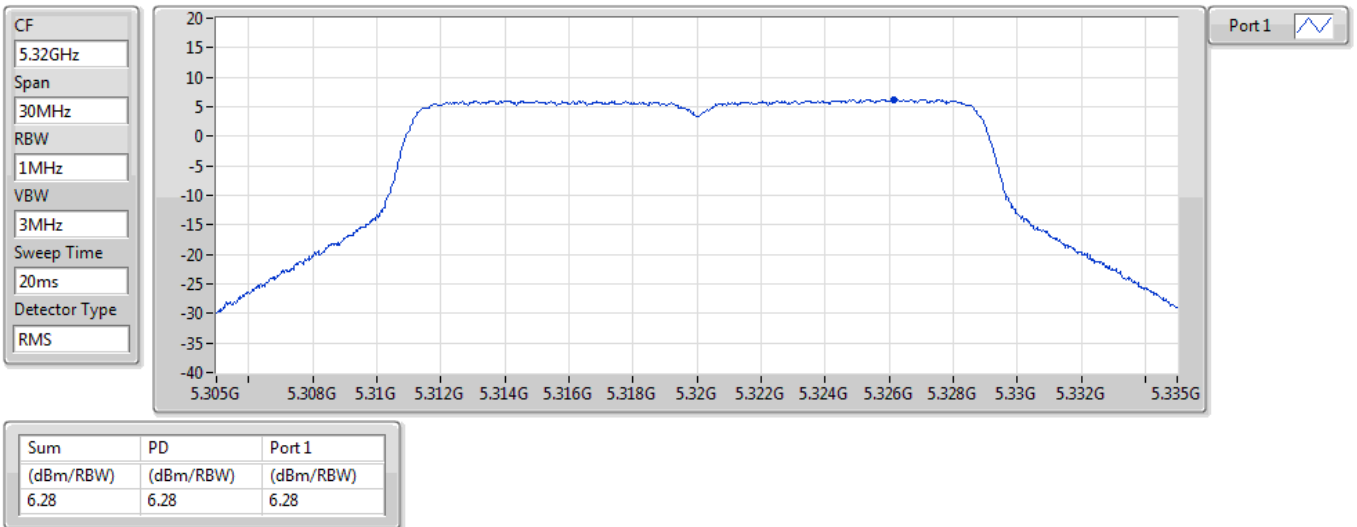
| Sum       | PD        | Port 1    |
|-----------|-----------|-----------|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| 8.80      | 8.80      | 8.80      |

## 802.11n HT20\_Nss1,(MCS0)\_1TX

## PSD

5320MHz

24/12/2020

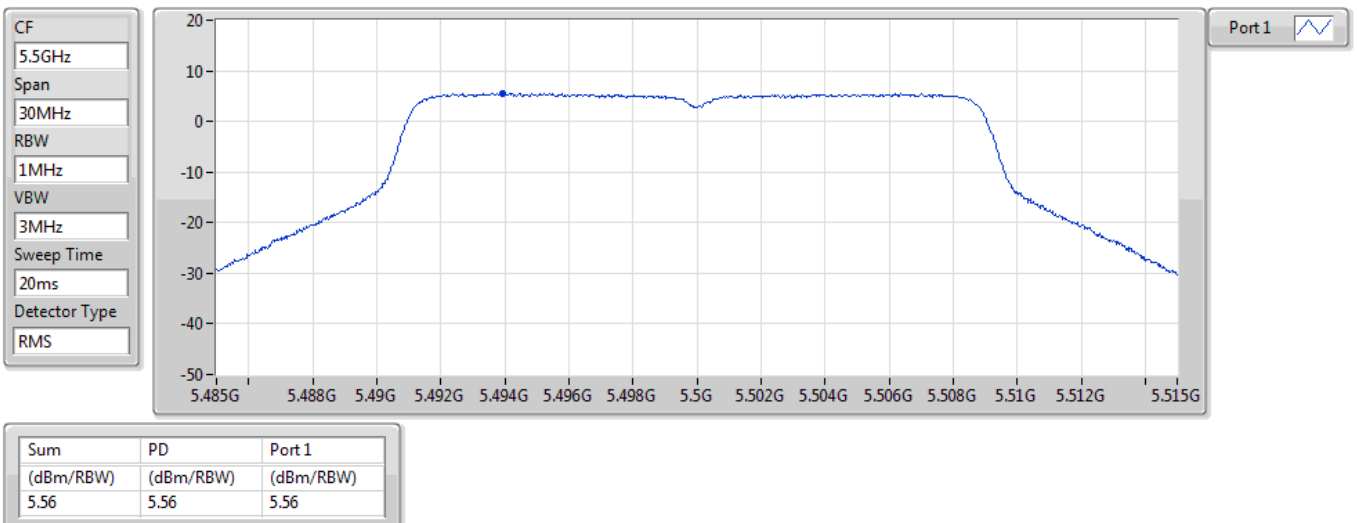


## 802.11n HT20\_Nss1,(MCS0)\_1TX

## PSD

5500MHz

24/12/2020

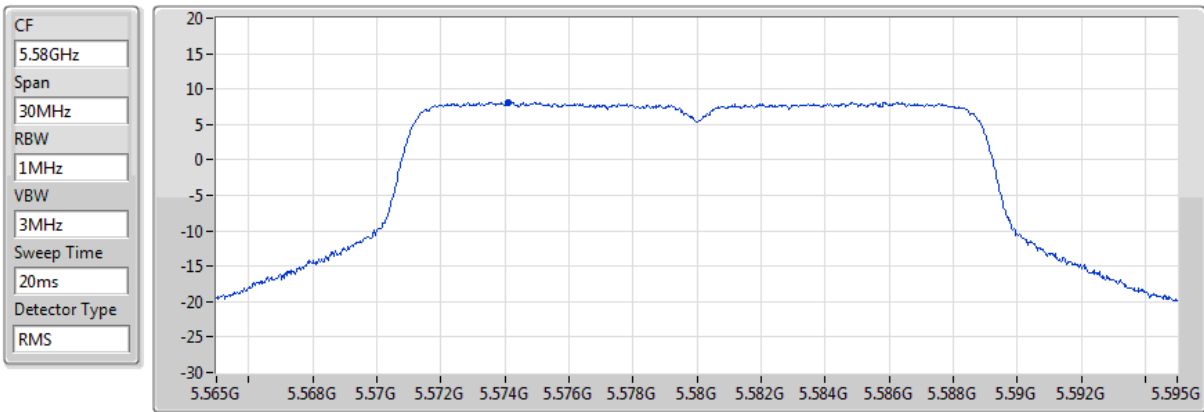


## 802.11n HT20\_Nss1,(MCS0)\_1TX

## PSD

5580MHz

24/12/2020



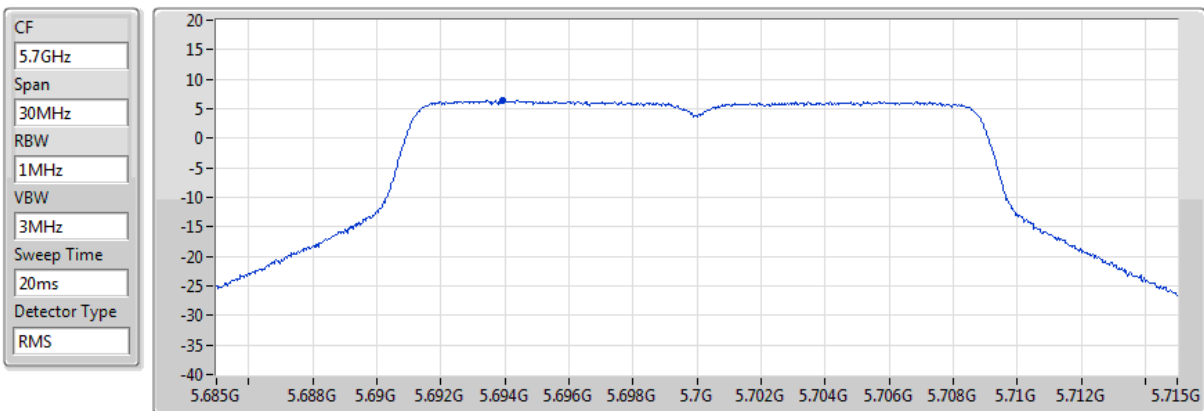
| Sum       | PD        | Port 1    |
|-----------|-----------|-----------|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| 8.15      | 8.15      | 8.15      |

## 802.11n HT20\_Nss1,(MCS0)\_1TX

## PSD

5700MHz

24/12/2020



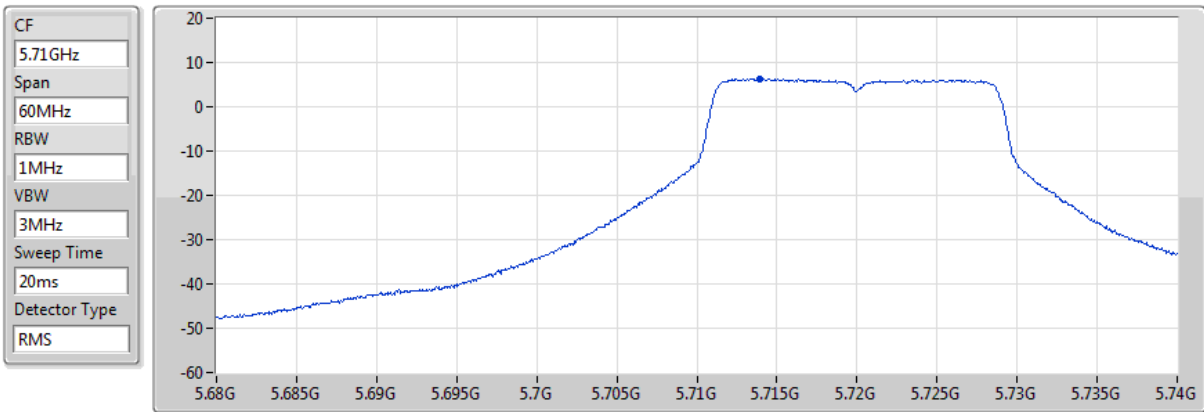
| Sum       | PD        | Port 1    |
|-----------|-----------|-----------|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| 6.44      | 6.44      | 6.44      |

## 802.11n HT20\_Nss1,(MCS0)\_1TX

## PSD

### 5720MHz Straddle 5.47-5.725GHz

24/12/2020

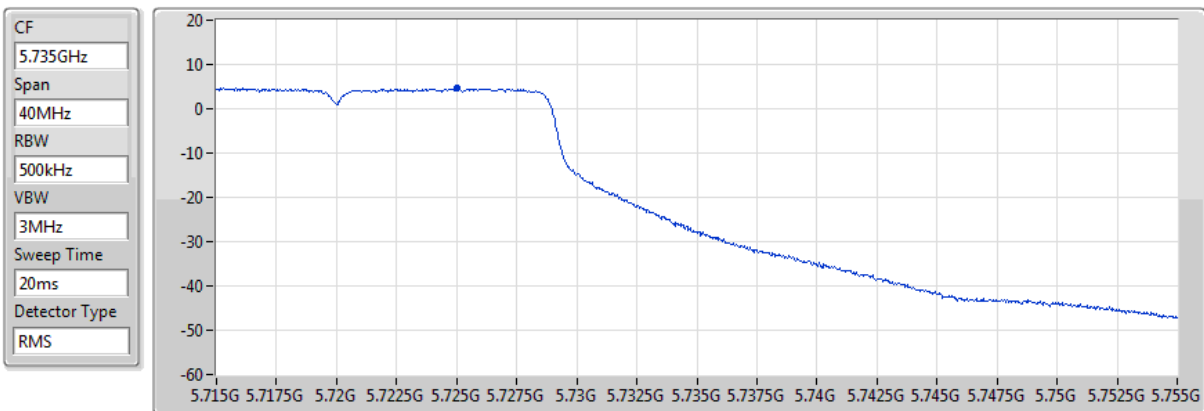


## 802.11n HT20\_Nss1,(MCS0)\_1TX

## PSD

### 5720MHz Straddle 5.725-5.85GHz

24/12/2020

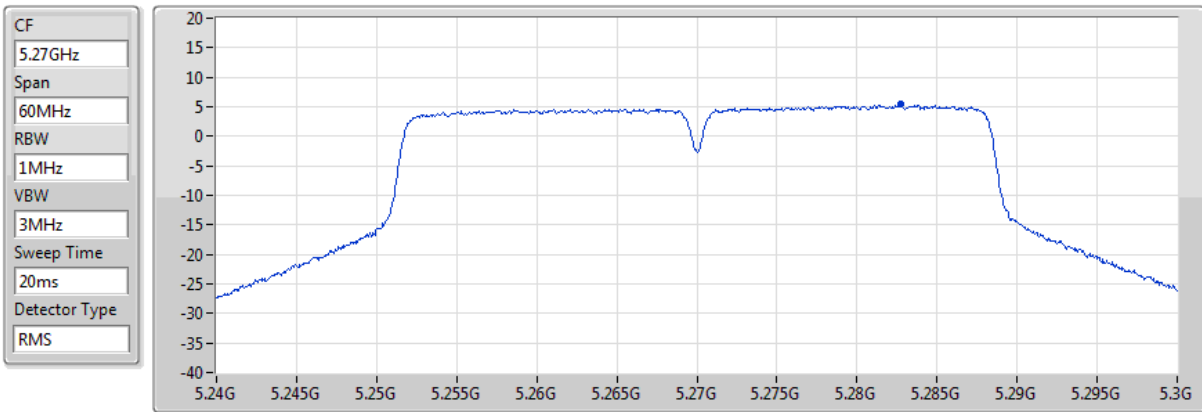


## 802.11n HT40\_Nss1,(MCS0)\_1TX

## PSD

5270MHz

24/12/2020



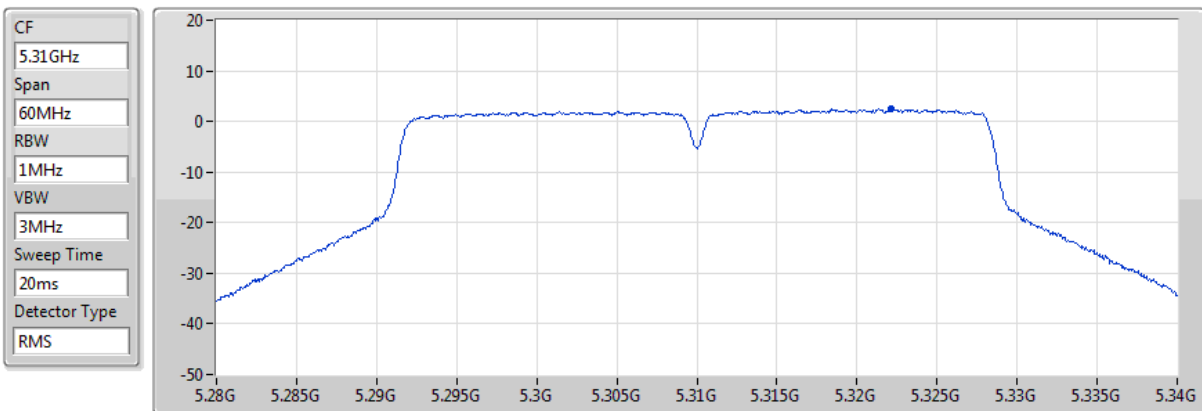
| Sum          | PD           | Port 1       |
|--------------|--------------|--------------|
| (dBm/100kHz) | (dBm/100kHz) | (dBm/100kHz) |
| 5.42         | 5.42         | 5.42         |

## 802.11n HT40\_Nss1,(MCS0)\_1TX

## PSD

5310MHz

24/12/2020



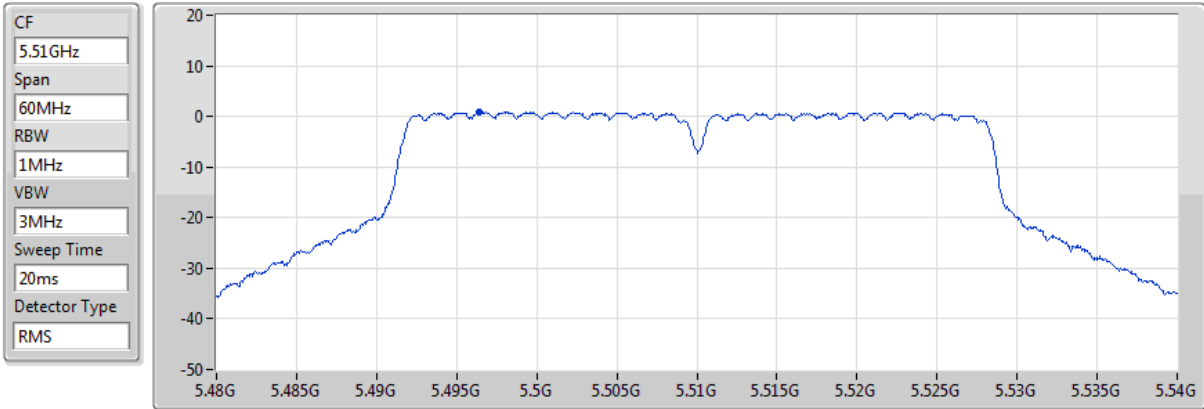
| Sum          | PD           | Port 1       |
|--------------|--------------|--------------|
| (dBm/100kHz) | (dBm/100kHz) | (dBm/100kHz) |
| 2.54         | 2.54         | 2.54         |

## 802.11n HT40\_Nss1,(MCS0)\_1TX

## PSD

5510MHz

24/12/2020



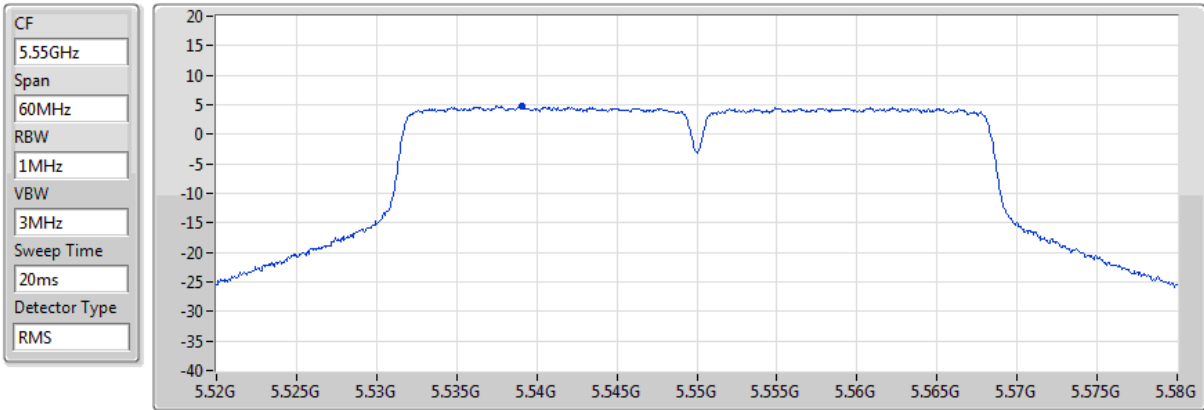
| Sum       | PD        | Port 1    |
|-----------|-----------|-----------|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| 0.85      | 0.85      | 0.85      |

## 802.11n HT40\_Nss1,(MCS0)\_1TX

## PSD

5550MHz

24/12/2020



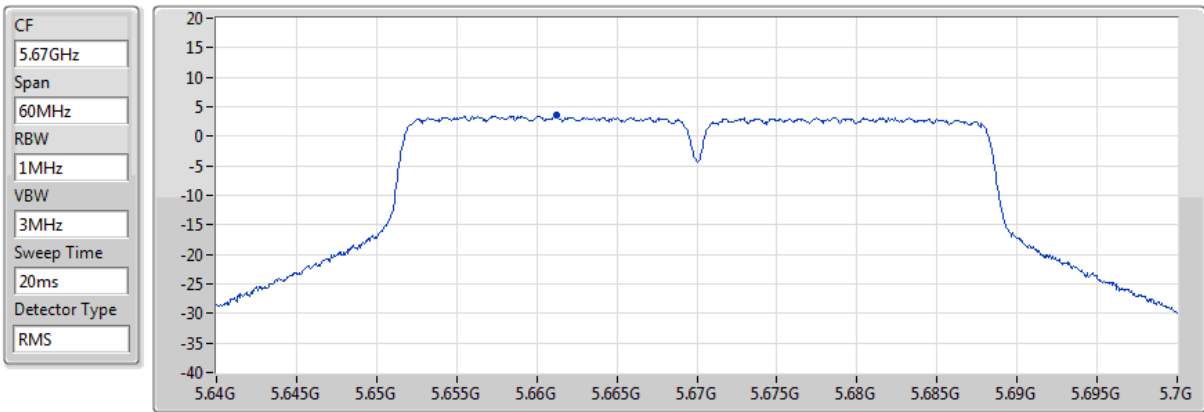
| Sum       | PD        | Port 1    |
|-----------|-----------|-----------|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| 4.74      | 4.74      | 4.74      |

## 802.11n HT40\_Nss1,(MCS0)\_1TX

## PSD

5670MHz

24/12/2020

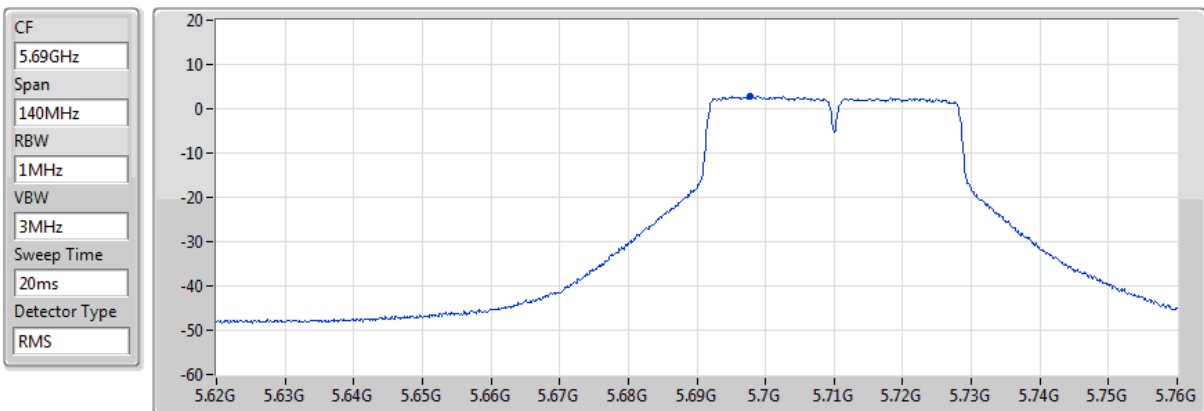


## 802.11n HT40\_Nss1,(MCS0)\_1TX

## PSD

5710MHz Straddle 5.47-5.725GHz

24/12/2020



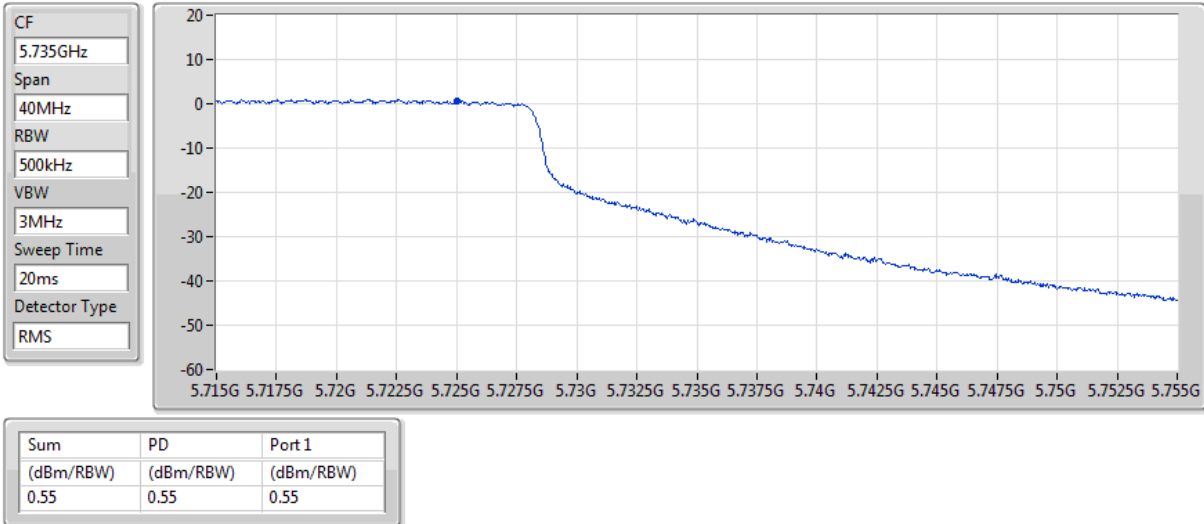


## 802.11n HT40\_Nss1,(MCS0)\_1TX

## PSD

### 5710MHz Straddle 5.725-5.85GHz

24/12/2020

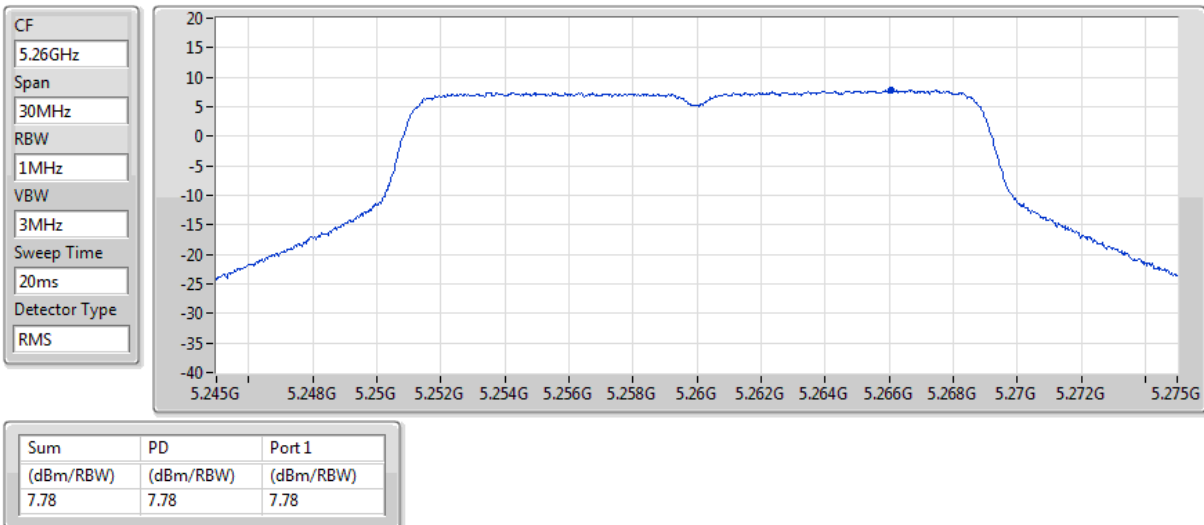


## 802.11ac VHT20\_Nss1,(MCS0)\_1TX

## PSD

### 5260MHz

11/11/2020

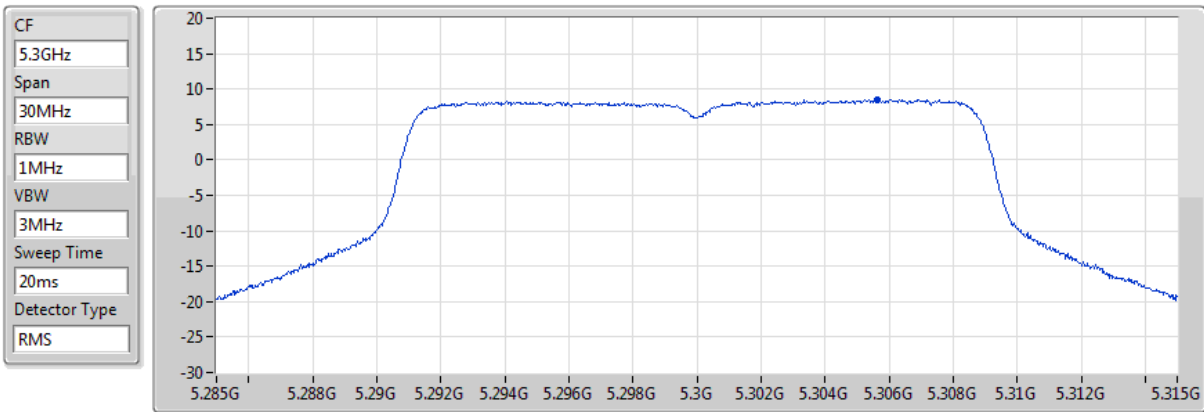


## 802.11ac VHT20\_Nss1,(MCS0)\_1TX

## PSD

5300MHz

11/11/2020



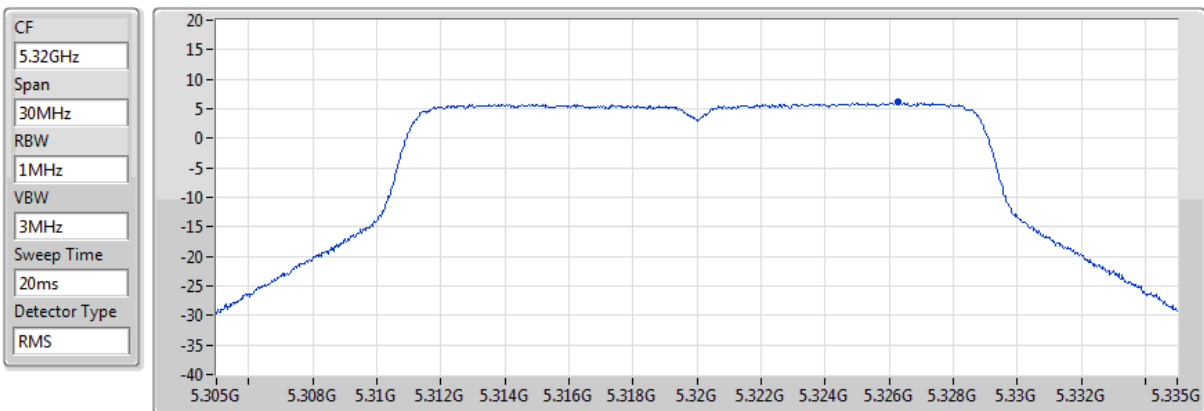
| Sum       | PD        | Port 1    |
|-----------|-----------|-----------|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| 8.53      | 8.53      | 8.53      |

## 802.11ac VHT20\_Nss1,(MCS0)\_1TX

## PSD

5320MHz

11/11/2020



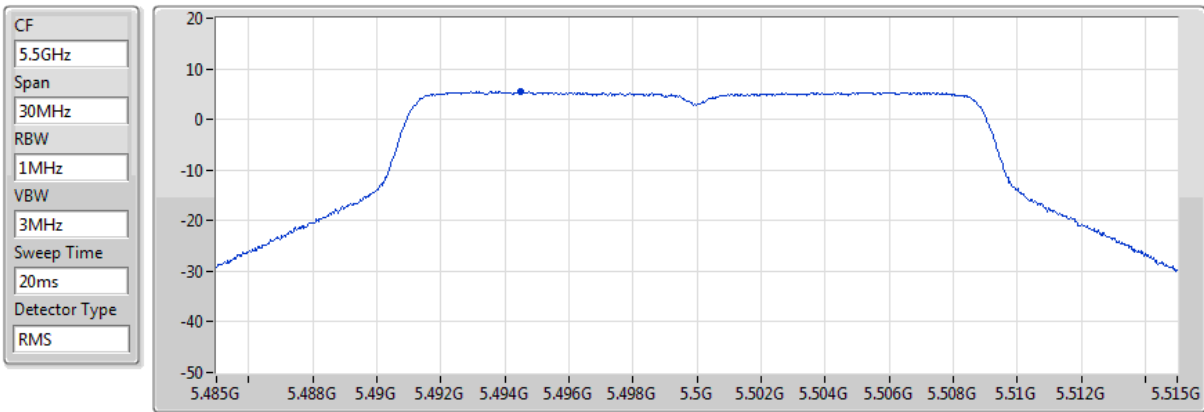
| Sum       | PD        | Port 1    |
|-----------|-----------|-----------|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| 6.08      | 6.08      | 6.08      |

## 802.11ac VHT20\_Nss1,(MCS0)\_1TX

## PSD

5500MHz

11/11/2020



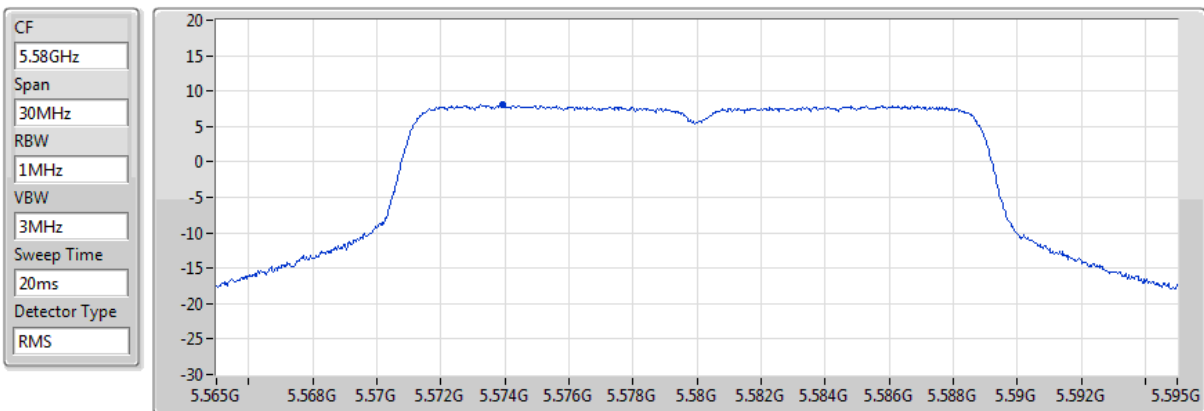
| Sum       | PD        | Port 1    |
|-----------|-----------|-----------|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| 5.45      | 5.45      | 5.45      |

## 802.11ac VHT20\_Nss1,(MCS0)\_1TX

## PSD

5580MHz

11/11/2020



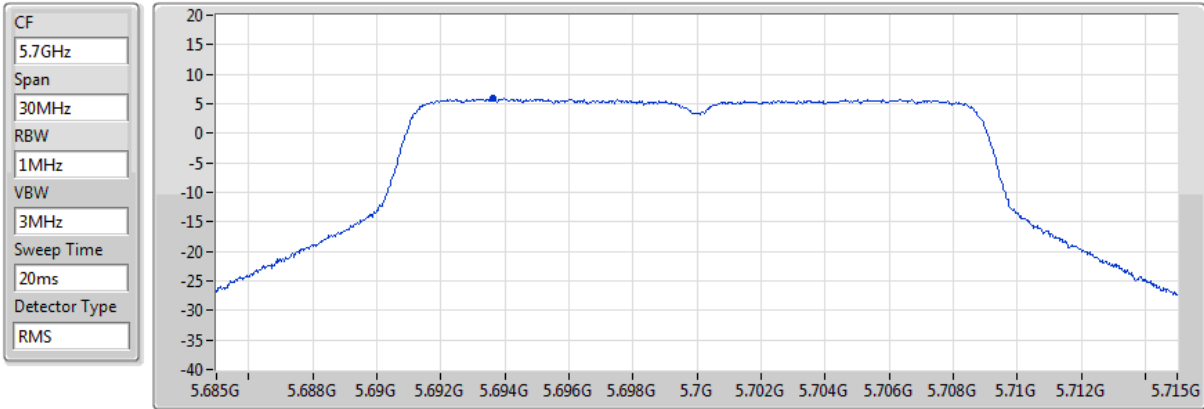
| Sum       | PD        | Port 1    |
|-----------|-----------|-----------|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| 8.02      | 8.02      | 8.02      |

## 802.11ac VHT20\_Nss1,(MCS0)\_1TX

## PSD

5700MHz

11/11/2020



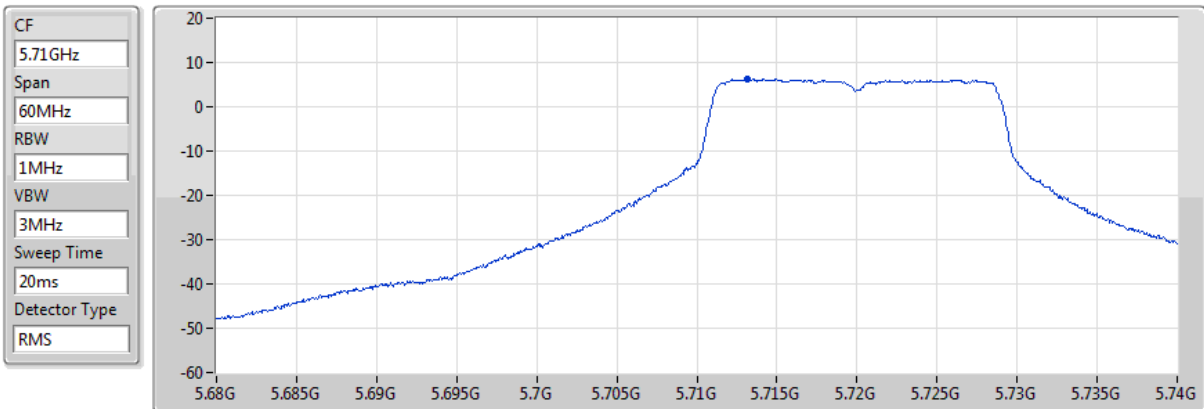
| Sum       | PD        | Port 1    |
|-----------|-----------|-----------|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| 5.88      | 5.88      | 5.88      |

## 802.11ac VHT20\_Nss1,(MCS0)\_1TX

## PSD

5720MHz Straddle 5.47-5.725GHz

11/11/2020



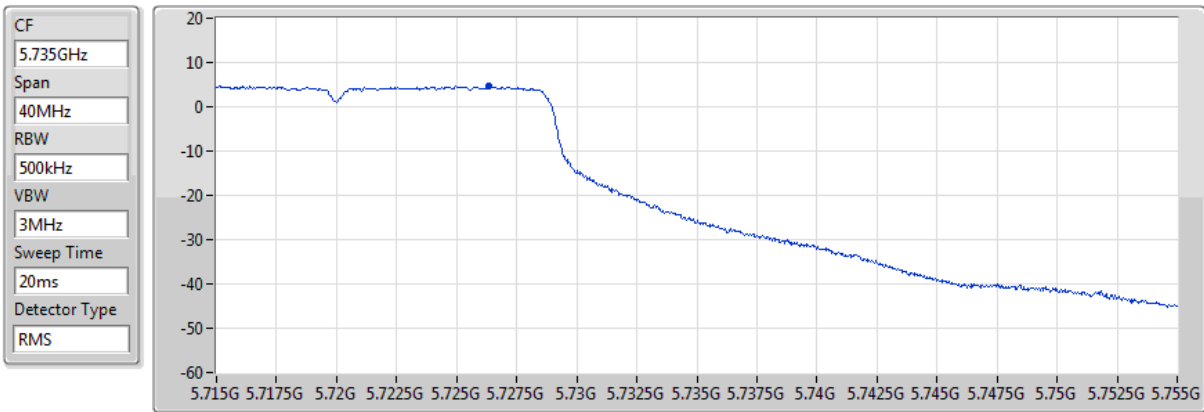
| Sum       | PD        | Port 1    |
|-----------|-----------|-----------|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| 6.28      | 6.28      | 6.28      |

## 802.11ac VHT20\_Nss1,(MCS0)\_1TX

## PSD

### 5720MHz Straddle 5.725-5.85GHz

11/11/2020



## 802.11ac VHT40\_Nss1,(MCS0)\_1TX

## PSD

### 5270MHz

11/11/2020

