FCC Test Report

FCC ID	:	**SWX-UDM**
Equipment	:	**UniFi Dream Machine**
Brand Name	:	**UBIQUITI**
Model Name	:	**UDM**
Applicant	:	**Ubiquiti Networks, Inc. 685 Third Avenue, 27th Floor New York, New York 10017 USA**
Manufacturer	:	**Ubiquiti Networks, Inc. 685 Third Avenue, 27th Floor New York, New York 10017 USA**
Standard	:	**47 CFR FCC Part 15.407**

The product was received on Mar. 14, 2018, and testing was started from Mar. 14, 2018 and completed on Nov. 06, 2018. We, SPORTON INTERNATIONAL INC. EMC & Wireless Communications 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 report must not be used by the client to claim product certification, approval, or endorsement by TAF or any agency of government.

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

Approved by: Allen Lin

SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory

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

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History of this test report

Report No.	Version	Description	Issued Date
FR870420-03AN	01	Initial issue of report	Feb. 20, 2019

Summary of Test Result

Report Clause	Ref. Std. Clause	Test Items	Result (PASS/FAIL)	Remark
1.1.3	15.203	Antenna Requirement	PASS	-
3.1	15.207	AC Power-line Conducted Emissions	PASS	-
3.2	15.407(a)	Emission Bandwidth	PASS	-
3.3	15.407(a)	Maximum Conducted Output Power	PASS	-
3.4	15.407(a)	Peak Power Spectral Density	PASS	-
3.5	15.407(b)	Unwanted Emissions	PASS	-

Declaration of Conformity:
The judgment of conformity in the report is based on the measurement results excluding the measurement uncertainty.
Comments and explanations:
None

Reviewed by: Sam Tsai

Report Producer: Jenny Yang

1 General Description

1.1 Information

1.1.1 RF General Information

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

Non-Beamforming

Band	Mode	BWch (MHz)	Nant
5.25-5.35GHz	802.11a	20	4TX
5.47-5.725GHz	802.11a	20	4TX
5.725-5.85GHz	802.11a	20	4TX
5.25-5.35GHz	802.11ac VHT20	20	4TX
5.47-5.725GHz	802.11ac VHT20	20	4TX
5.725-5.85GHz	802.11ac VHT20	20	4TX
5.25-5.35GHz	802.11ac VHT40	40	4TX
5.47-5.725GHz	802.11ac VHT40	40	4TX
5.725-5.85GHz	802.11ac VHT40	40	4TX
5.25-5.35GHz	802.11ac VHT80	80	4TX
5.47-5.725GHz	802.11ac VHT80	80	4TX
5.725-5.85GHz	802.11ac VHT40	40	4TX

Band	Mode	BWch (MHz)	Nant
5.15-5.25GHz	802.11ac VHT80+80	80	2TX(Port 1/2)
5.25-5.35GHz	802.11ac VHT80+80	80	2TX(Port 3/4)
5.47-5.725GHz	802.11ac VHT80+80	80	4TX

Beamforming for indoor

Band	Mode	BWch (MHz)	Nant
5.15-5.25GHz	802.11ac VHT20-BF	20	4TX
5.25-5.35GHz	802.11ac VHT20-BF	20	4TX
5.47-5.725GHz	802.11ac VHT20-BF	20	4TX
5.725-5.85GHz	802.11ac VHT20-BF	20	4TX
5.15-5.25GHz	802.11ac VHT40-BF	40	4TX
5.25-5.35GHz	802.11ac VHT40-BF	40	4TX
5.47-5.725GHz	802.11ac VHT40-BF	40	4TX
5.725-5.85GHz	802.11ac VHT40-BF	40	4TX
5.15-5.25GHz	802.11ac VHT80-BF	80	4TX
5.25-5.35GHz	802.11ac VHT80-BF	80	4TX
5.47-5.725GHz	802.11ac VHT80-BF	80	4TX
5.725-5.85GHz	802.11ac VHT80-BF	80	4TX
5.15-5.25GHz	802.11ac VHT80+80-BF	80	2TX(Port 1/2)
5.25-5.35GHz	802.11ac VHT80+80-BF	80	2TX(Port 3/4)
5.47-5.725GHz	802.11ac VHT80+80-BF	80	4TX

Beamforming for outdoor

Band	Mode	BWch (MHz)	Nant
5.15-5.25GHz	802.11ac VHT20-BF	20	4TX
5.25-5.35GHz	802.11ac VHT20-BF	20	4TX
5.47-5.725GHz	802.11ac VHT20-BF	20	4TX
5.725-5.85GHz	802.11ac VHT20-BF	20	4TX
5.15-5.25GHz	802.11ac VHT40-BF	40	4TX
5.25-5.35GHz	802.11ac VHT40-BF	40	4TX
5.47-5.725GHz	802.11ac VHT40-BF	40	4TX
5.725-5.85GHz	802.11ac VHT40-BF	40	4TX
5.15-5.25GHz	802.11ac VHT80-BF	80	4TX
5.25-5.35GHz	802.11ac VHT80-BF	80	4TX
5.47-5.725GHz	802.11ac VHT80-BF	80	4TX
5.725-5.85GHz	802.11ac VHT80-BF	80	4TX

Band	Mode	BWch (MHz)	Nant
5.15-5.25GHz	802.11ac VHT80+80-BF	80	2TX(Port 1/2)
5.25-5.35GHz	802.11ac VHT80+80-BF	80	2TX(Port 3/4)
5.47-5.725GHz	802.11ac VHT80+80-BF	80	4TX

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.
- BWch is the nominal channel bandwidth.
- The EUT supports indoor and outdoor function. Full channel can be used in indoor function, and 5260MHz、5270MHz and 5290MHz can't be used in outdoor function.

1.1.2 Table for 80+80 MHz Mode

Type	Channel No.	Frequency
1	42+58	5210+5290 MHz
2	106+122	5530+5610 MHz

1.1.3 Antenna Information

Ant.	Brand	Model Name	Antenna Type	Connector
1	-	-	internal antenna	I-PEX
2	-	-	internal antenna	I-PEX
3	-	-	internal antenna	I-PEX
4	-	-	internal antenna	I-PEX

Ant.	Gain (dBi)	
	5G Beamforming	5G Non-Beamforming
1	6.02	4.5
2	6.02	4.5
3	6.02	4.5
4	6.02	4.5

Note 1: The EUT has four antennas.

For 5GHz function:

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

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

1.1.4 EUT Information

Operational Condition					
EUT Power Type	From AC mains				
EUT Function	☒	Outdoor	☒	Indoor	
	☐	Fixed P2P	☐	Client	
Beamforming Function	☒	With beamforming	☐	Without beamforming	
Weather Band	☒	With 5600~5650MHz	☐	Without 5600~5650MHz	

Type of EUT		
☒	Stand-alone	
☐	Combined (EUT where the radio part is fully integrated within another device)	
	Combined Equipment - Brand Name / Model No.:	…
☐	Plug-in radio (EUT intended for a variety of host systems)	
	Host System - Brand Name / Model No.:	…
☐	Other:	

1.1.5 Mode Test Duty Cycle

Non-Beamforming

Mode	DC	DCF(dB)	T(s)	VBW(Hz) ≥ 1/T
802.11a	0.774	1.113	942.187u	3k
802.11ac VHT20	0.541	2.668	346.875u	3k
802.11ac VHT40	0.403	3.947	182.812u	10k
802.11ac VHT80	0.889	0.511	587.812u	3k
802.11ac VHT80+80	0.364	4.389	193.75u	10k

Beamforming for indoor

Mode	DC	DCF(dB)	T(s)	VBW(Hz) ≥ 1/T
802.11ac VHT20-BF	0.848	0.716	865.625u	3k
802.11ac VHT40-BF	0.754	1.226	443.75u	3k
802.11ac VHT80-BF	0.85	0.706	775u	3k
802.11ac VHT80+80-BF	0.658	1.818	410.938u	3k

Beamforming for outdoor

Mode	DC	DCF(dB)	T(s)	VBW(Hz) ≥ 1/T
802.11ac VHT20-BF	0.848	0.716	865.625u	3k
802.11ac VHT40-BF	0.754	1.226	443.75u	3k
802.11ac VHT80-BF	0.85	0.706	775u	3k
802.11ac VHT80+80-BF	0.658	1.818	410.938u	3k

1.1.6 Table for Permissive Change

This product is an extension of original one reported under Sporton project number: FR870420-01AN

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

Modifications	Performance Checking
1. U-NII-2A and U-NII-2C were added 2. Straddle channel, 80+80 MHz function and Beamforming mode were added	All

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
- KDB 662911 D01 v02r01

1.3 Testing Location Information

Testing Location			
☒	HWA YA	ADD : No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)	
		TEL : 886-3-327-3456	FAX : 886-3-327-0973
Test site Designation No. TW1190 with FCC.			
☐	JHUBEI	ADD : No.8, Ln. 724, Bo'ai St., Zhubei City, Hsinchu County, Taiwan (R.O.C.)	
		TEL : 886-3-656-9065	FAX : 886-3-656-9085
Test site Designation No. TW0006 with FCC.			

Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date
AC Conduction	CO04-HY	Andy	24.8°C / 56.5%	06/Oct/2018
RF Conducted	TH01-HY	Andy	25°C / 59%	18/Oct/2018
Radiated	03CH02-HY	Jeff	23.8°C / 51%	06/Nov/2018

1.4 Measurement Uncertainty

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

Test Items	Uncertainty	Remark
Conducted Emission (150kHz ~ 30MHz)	3.6 dB	Confidence levels of 95%
Radiated Emission (9kHz ~ 30MHz)	3.0 dB	Confidence levels of 95%
Radiated Emission (30MHz ~ 1,000MHz)	4.3 dB	Confidence levels of 95%
Radiated Emission (1GHz ~ 18GHz)	3.9 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	3.5 dB	Confidence levels of 95%
Conducted Emission	1.3 dB	Confidence levels of 95%
Temperature	0.7 °C	Confidence levels of 95%
Humidity	4 %	Confidence levels of 95%

2 Test Configuration of EUT

2.1 Test Condition

Condition Item	Abbreviation/Remark	Remark
RF Conducted	Abbreviation	Remark
TnomVnom	Tnom	20°C
-	Vnom	110V

2.2 Test Channel Mode

Test Software	Putty

2.3 The Worst Case Measurement Configuration

The Worst Case Mode for Following Conformance Tests	
Tests Item	AC power-line conducted emissions
Condition	AC power-line conducted measurement for line and neutral
Operating Mode	CTX
1	AC mains mode

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

The Worst Case Mode for Following Conformance Tests			
Tests Item	Unwanted Emissions		
Test Condition	Radiated measurement If EUT consist of multiple antenna assembly (multiple antenna are used in EUT regardless of spatial multiplexing MIMO configuration), the radiated test should be performed with highest antenna gain of each antenna type.		
Operating Mode < 1GHz	CTX		
1	AC mains mode		
Operating Mode > 1GHz	CTX		
Orthogonal Planes of EUT	**X Plane**	**Y Plane**	**Z Plane**
Worst Planes of EUT		V	

2.4 Support Equipment

Support Equipment – AC Conduction				
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**
1	Client(remote)	-	-	-

Note: Support equipment No.1 was provided by customer.

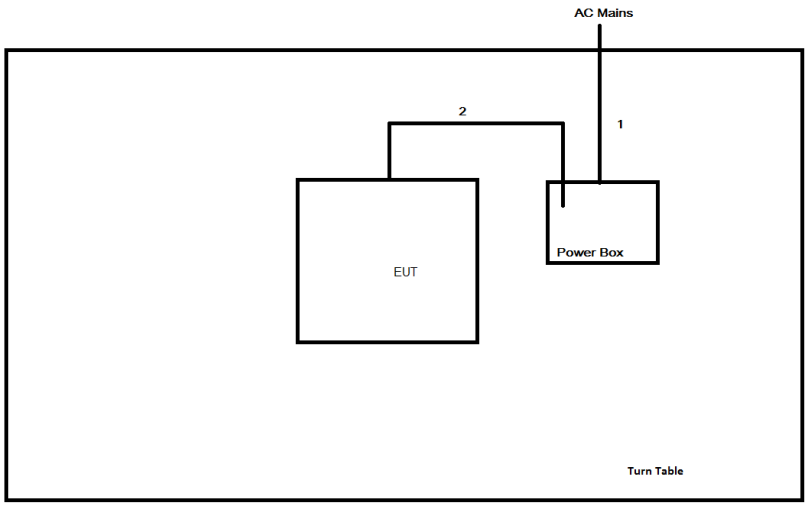
Support Equipment – RF Conducted				
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**
1	Notebook	DELL	E5410	R33002 / DOC
2	Adapter for NB	DELL	HA65NM130	R35737 / DOC
3	AC Power Source	GW	APS-9102	-
4	AC Power Line	-	-	-

Support Equipment – Radiated Emission				
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**
1	AC Power Line	-	-	-
2	Client(remote)	-	-	-

Note: Support equipment No.2 was provided by customer.

2.5 Test Setup Diagram

Test Setup Diagram - Radiated Test



Item	Connection	Shielded	Length(m)	Remark
1	AC Power line	No	1.5m	-
2	AC Power line	No	1.5m	-

3 Transmitter Test Result

3.1 AC Power-line Conducted Emissions

3.1.1 AC Power-line Conducted Emissions Limit

AC Power-line Conducted Emissions Limit		
Frequency Emission (MHz)	**Quasi-Peak**	**Average**
0.15-0.5	66 - 56 *	56 - 46 *
0.5-5	56	46
5-30	60	50
Note 1: * Decreases with the logarithm of the frequency.		

3.1.2 Measuring Instruments

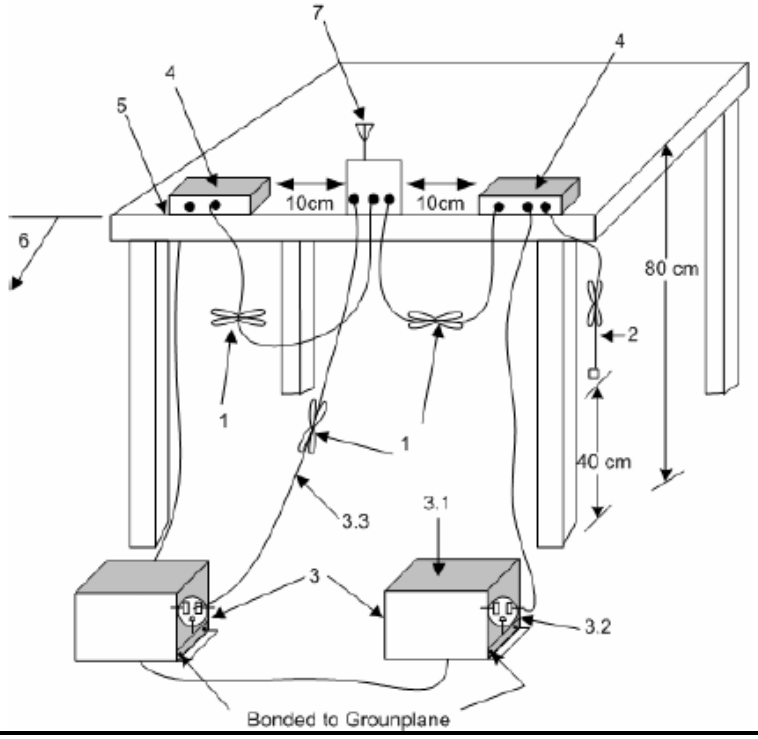
Refer a test equipment and calibration data table in this test report.

3.1.3 Test Procedures

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

3.1.4 Test Setup

AC Power-line Conducted Emissions



3.1.5 Test Result of AC Power-line Conducted Emissions

Refer as Appendix A

3.2 Emission Bandwidth

3.2.1 Emission Bandwidth Limit

Emission Bandwidth Limit
UNII Devices
☒ For the 5.15-5.25 GHz band, N/A
☒ For the 5.25-5.35 GHz band, N/A
☒ For the 5.47-5.725 GHz band, N/A
☒ For the 5.725-5.85 GHz band, 6 dB emission bandwidth ≥ 500kHz.

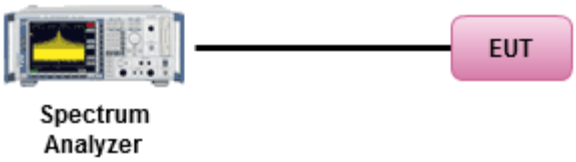
3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

Test Method	
▪	For the emission bandwidth shall be measured using one of the options below:
	☒ Refer as KDB 789033, clause C for EBW and clause D for OBW measurement.
	☐ Refer as ANSI C63.10, clause 6.9.3 for occupied bandwidth testing.
	☐ Refer as IC RSS-Gen, clause 6.7 for bandwidth testing.

3.2.4 Test Setup

Emission Bandwidth


3.2.5 Test Result of Emission Bandwidth

Refer as Appendix B

3.3 Maximum Conducted Output Power

3.3.1 Maximum Conducted Output Power Limit

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

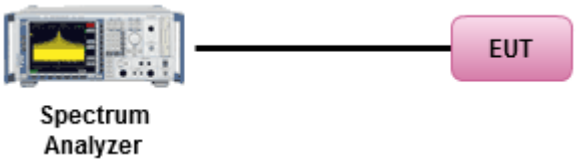
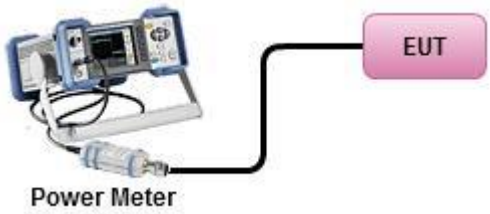
3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

Test Method	
▪ Maximum Conducted Output Power	
	Duty cycle ≥ 98%
	☒ Refer as KDB 789033, clause E Method SA-2 (spectral trace averaging).
	Duty cycle < 98%
	☐ Refer as KDB 789033, clause E Method SA-2 Alt. (RMS detection with slow sweep speed)
	Wideband RF power meter and average over on/off periods with duty factor
	☒ Refer as KDB 789033, clause E Method PM (using an RF average power meter).
▪ For conducted measurement.	
	▪ If the EUT supports multiple transmit chains using options given below: Refer as KDB 662911, In-band power measurements. Using the measure-and-sum approach, measured all transmit ports individually. Sum the power (in linear power units e.g., mW) of all ports for each individual sample and save them.
	▪ If multiple transmit chains, EIRP calculation could be following as methods: $P_{total} = P_1 + P_2 + \ldots + P_n$ (calculated in linear unit [mW] and transfer to log unit [dBm]) $EIRP_{total} = P_{total} + DG$

3.3.4 Test Setup

RF Output Power (Spectrum Analyzer)

RF Output Power (Power Meter)


3.3.5 Test Result of Maximum Conducted Output Power

Refer as Appendix C

3.4 Peak Power Spectral Density

3.4.1 Peak Power Spectral Density Limit

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

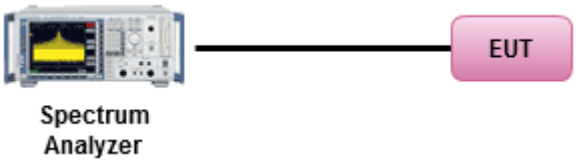
3.4.2 Measuring Instruments

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

3.4.3 Test Procedures

Test Method		
▪ Peak power spectral density procedures that the same method as used to determine the conducted output power shall be used to determine the peak power spectral density and use the peak search function on the spectrum analyzer to find the peak of the spectrum. For the peak power spectral density shall be measured using below options:		
	☐ Refer as KDB 789033, F)5) power spectral density can be measured using resolution bandwidths < 1 MHz provided that the results are integrated over 1 MHz bandwidth	
	Duty cycle ≥ 98%	
	☐ Refer as KDB 789033, clause E Method SA-2 (spectral trace averaging).	
	Duty cycle < 98%	
	☒ Refer as KDB 789033, clause E Method SA-2 Alt. (RMS detection with slow sweep speed)	
▪ For conducted measurement.		
	▪ If the EUT supports multiple transmit chains using options given below:	
		▪ Measure and sum the spectra across the outputs. Refer as KDB 662911, In-band power spectral density (PSD). Sample all transmit ports simultaneously using a spectrum analyzer for each transmit port. Where the trace bin-by-bin of each transmit port summing can be performed. (i.e., in the first spectral bin of output 1 is summed with that in the first spectral bin of output 2 and that from the first spectral bin of output 3, and so on up to the NTX output to obtain the value for the first frequency bin of the summed spectrum.). Add up the amplitude (power) values for the different transmit chains and use this as the new data trace.
	▪	If multiple transmit chains, EIRP PPSD calculation could be following as methods: $PPSD_{total} = PPSD_1 + PPSD_2 + \ldots + PPSD_n$ (calculated in linear unit [mW] and transfer to log unit [dBm]) $EIRP_{total} = PPSD_{total} + DG$

3.4.4 Test Setup

Power Spectral Density


3.4.5 Test Result of Peak Power Spectral Density

Refer as Appendix D

3.5 Unwanted Emissions

3.5.1 Transmitter Radiated Unwanted Emissions Limit

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

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

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

Note 3: Using the distance of 1m during the test for above 18 GHz, and the test value to correct for the distance factor at 3m.

Un-restricted band emissions above 1GHz Limit	
Operating Band	**Limit**
5.15 - 5.25 GHz	e.i.r.p. -27 dBm [68.2 dBuV/m@3m]
5.25 - 5.35 GHz	e.i.r.p. -27 dBm [68.2 dBuV/m@3m]
5.47 - 5.725 GHz	e.i.r.p. -27 dBm [68.2 dBuV/m@3m]
5.725 - 5.85 GHz	5.650-5700 GHz: e.i.r.p. -27 ~ 10 dBm [68.2 ~ 105.2 dBuV/m@3m] 5.700-5720 GHz: e.i.r.p. 10 ~ 15.6 dBm [105.2 ~ 110.8 dBuV/m@3m] 5.720-5725 GHz: e.i.r.p. 15.6 ~ 27 dBm [110.8 ~ 122.2 dBuV/m@3m] 5.850-5.855 GHz: e.i.r.p. 27 ~ 15.6 dBm [122.2 ~ 110.8 dBuV/m@3m] 5.855-5.875 GHz: e.i.r.p. 15.6 ~ 10 dBm [110.8 ~ 105.2 dBuV/m@3m] 5.875-5.925 GHz: e.i.r.p. 10 ~ -27 dBm [105.2 ~ 68.2dBuV/m@3m] Other un-restricted band: e.i.r.p. -27 dBm [68.2 dBuV/m@3m]
Note 1: Measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements).	

3.5.2 Measuring Instruments

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

3.5.3 Test Procedures

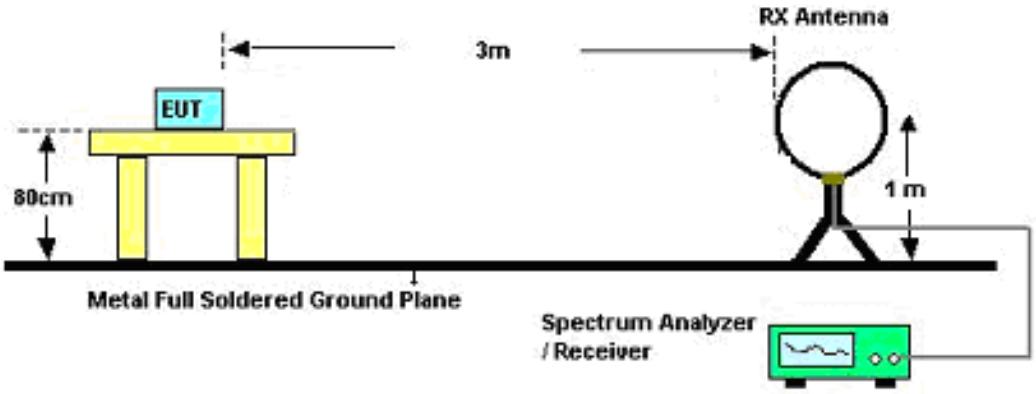
Test Method		
▪ Measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. Measurements shall not be performed at a distance greater than 30 m for frequencies above 30 MHz, unless it can be further demonstrated that measurements at a distance of 30 m or less are impractical. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements).		
▪ The average emission levels shall be measured in [duty cycle ≥ 98 or duty factor].		
▪ For the transmitter unwanted emissions shall be measured using following options below:		
	▪ Refer as KDB 789033, clause G)2) for unwanted emissions into non-restricted bands.	
	▪ Refer as KDB 789033, clause G)1) for unwanted emissions into restricted bands.	
		☒ Refer as KDB 789033, G)6) Method VB (ANSI C63.10, clause 4.1.4.2.3), Reduced VBW.
		☒ Refer as KDB 789033, clause G)5) (ANSI C63.10, clause 4.1.4.2.2), measurement procedure peak limit.
▪ For radiated measurement.		
	▪ Refer as ANSI C63.10, clause 6.4 for radiated emissions below 30 MHz and test distance is 3m.	
	▪ Refer as ANSI C63.10, clause 6.5 for radiated emissions 30 MHz to 1 GHz and test distance is 3m.	
	▪ Refer as ANSI C63.10, clause 6.6 for radiated emissions above 1GHz.	

Test Method
▪ The any unwanted emissions level shall not exceed the fundamental emission level.
▪ All amplitude of spurious emissions that are attenuated by more than 20 dB below the permissible value has no need to be reported.

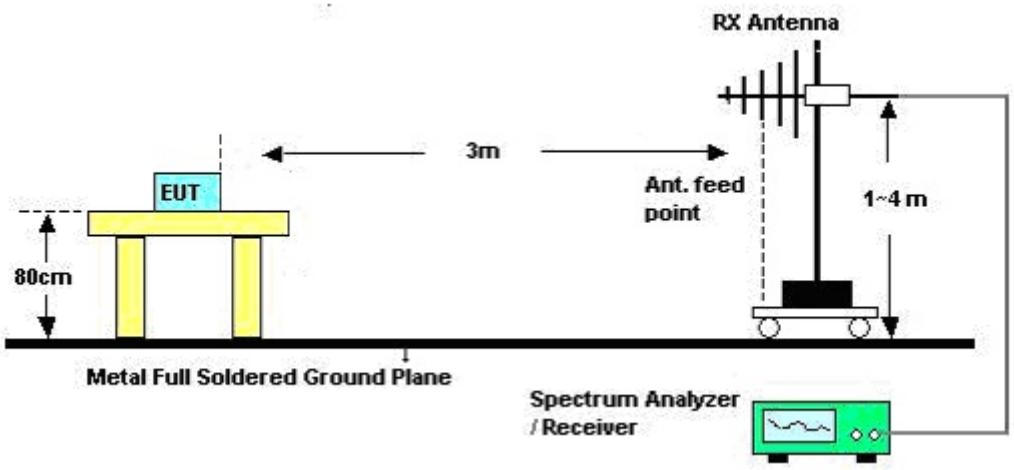
3.5.4 Test Setup

Transmitter Radiated Unwanted Emissions

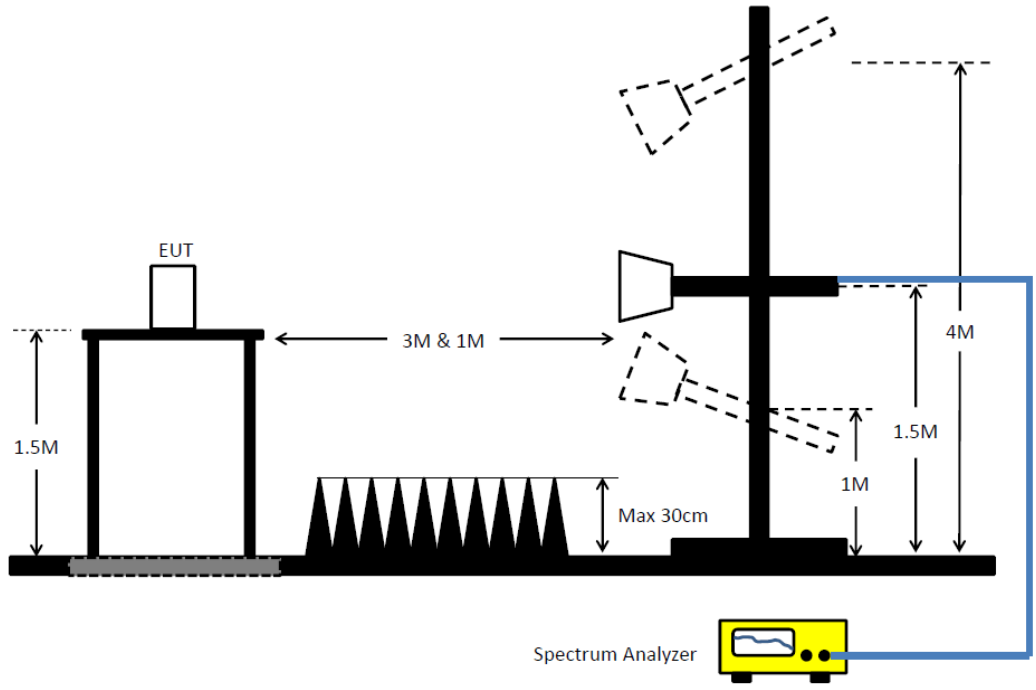
9kHz ~30MHz



30MHz~1GHz



Above 1GHz



3.5.5 Transmitter Unwanted Emissions (Below 30MHz)

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

3.5.6 Test Result of Transmitter Unwanted Emissions

Refer as Appendix E

3.6 Test Equipment and Calibration Data

Instrument for AC Conduction

Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
EMC Receiver	R&S	ESR	102051	9KHz ~ 3.6GHz	03/May/2018	02/May/2019
LISN	R&S	ENV216	101295	9kHz ~ 30MHz	17/Nov/2017	16/Nov/2018
RF Cable-CON	HUBER+ SUHNER	RG213/U	07611832020001	9kHz ~ 30MHz	05/Oct/2018	04/Oct/2019
AC POWER	APC	AFC-11005G	F310050055	47Hz~63Hz 5~300V	NCR	NCR
Impuls Begrenzer Pulse Limiter	SCHWARZBECK	VTSD 9561-F	9561-F041	9 kHz ~ 30 MHz	12/Oct/2017	11/Oct/2018

NCR : Non-Calibration Require

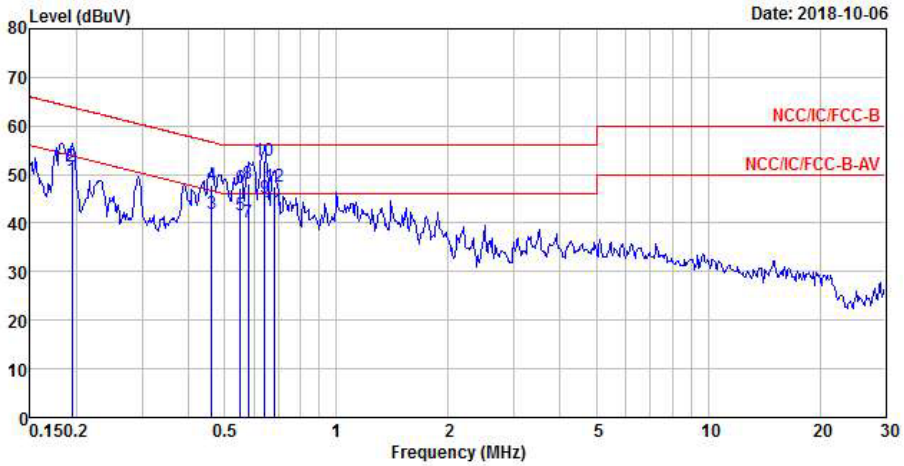
Instrument for Conducted Test

Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
Spectrum Analyzer	Rohde & Schwarz	FSP40	100593	9KHz - 40GHz	12/Dec/2017	11/Dec/2018
Power Sensor	Anritsu	MA2411B	1339407	300MHz ~ 40GHz	06/Nov/2017	05/Nov/2018
Power Meter	Anritsu	ML2495A	1517010	300MHz ~ 40GHz	06/Nov/2017	05/Nov/2018
RF Cable-1m	HUBER+ SUHNER	MY37332/4	RF Cable - 44	30MHz~1GHz	26/Jan/2018	25/Jan/2019
RF Cable-1m	HUBER+ SUHNER	MY37332/4	RF Cable - 44	1GHz~18GHz	26/Jan/2018	25/Jan/2019
RF Cable-1m	HUBER+ SUHNER	MY37333/4	RF Cable - 45	30MHz~1GHz	26/Jan/2018	25/Jan/2019
RF Cable-1m	HUBER+ SUHNER	MY37333/4	RF Cable - 45	1GHz~18GHz	26/Jan/2018	25/Jan/2019
RF Cable-0.2m	HUBER+ SUHNER	SUCOFLEX_104	MY10710/4	30MHz ~ 26.5GHz	26/Jan/2018	25/Jan/2019
RF Cable-0.2m	HUBER+ SUHNER	SUCOFLEX_104	MY10709/4	30MHz ~ 26.5GHz	26/Jan/2018	25/Jan/2019
Signal Generator	R&S	SMB100A	175727	100kHz~40GHz	26/Oct/2017	25/Oct/2018

Instrument for Radiated Test

Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH02-HY	30MHz ~ 1GHz 3m	27/Oct/2017	26/Oct/2018
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH02-HY	30MHz ~ 1GHz 3m	17/Oct/2018	16/Oct/2019
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH02-HY	1GHz ~ 18GHz 3m	27/Oct/2017	26/Oct/2018
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH02-HY	1GHz ~ 18GHz 3m	17/Oct/2018	16/Oct/2019
Amplifier	Agilent	8447D	2944A11149	100kHz ~1.3GHz	27Jul/2018	02/Jul/2019
Amplifier	HP	8447D	2944A08033	10kHz ~ 1.3GHz	23/Apr/2018	19/Apr/2019
Microwave Preamplifier	Agilent	8449B	3008A02373	1GHz ~ 26.5GHz	28/Sep/2017	27/Sep/2018
Microwave Preamplifier	KEYSIGHT	83017A	MY53270196	1GHz ~ 26.5GHz	05/Sep/2018	04/Sep/2019
Spectrum Analyzer	Rohde & Schwarz	FSP40	100593	9KHz - 40GHz	12/Dec/2017	11/Dec/2018
EMI Test Receiver	Rohde & Schwarz	ESCS 30	100354	9kHz ~ 2.75GHz	08/Dec/2017	07/Dec/2018
RF Cable-R03m	Jye Bao	RG142	CB017	9kHz ~ 1GHz	19/Jan/2018	18/Jan/2019
RF Cable-high	SUHNER	SUCOFLEX104	MY34918/4	1GHz ~ 40GHz	19/Jan/2018	18/Jan/2019
Bilog Antenna	SCHAFFNER	CBL 6112D	2678	30MHz ~ 1GHz	07/Jul/2018	06/Jul2019
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA 9170154	18GHz ~ 40GHz	06/Feb/2018	05/Feb/2019
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120D	BBHA 9120 D 1531	1GHz ~ 18GHz	18/Apr/ 2018	17/Apr/2019
Preamplifier	MITEQ	TTA1840-35-HG	1864481	18GHz ~ 40GHz	31/Aug/2017	30/Aug/2018
Preamplifier	MITEQ	TTA1840-35-HG	1864481	18GHz ~ 40GHz	24/Aug/2018	23/Aug/2019
Loop Antenna	TESEQ	HLA 6120	31244	9k-30MHz	29/Mar/2018	28/Mar/2019

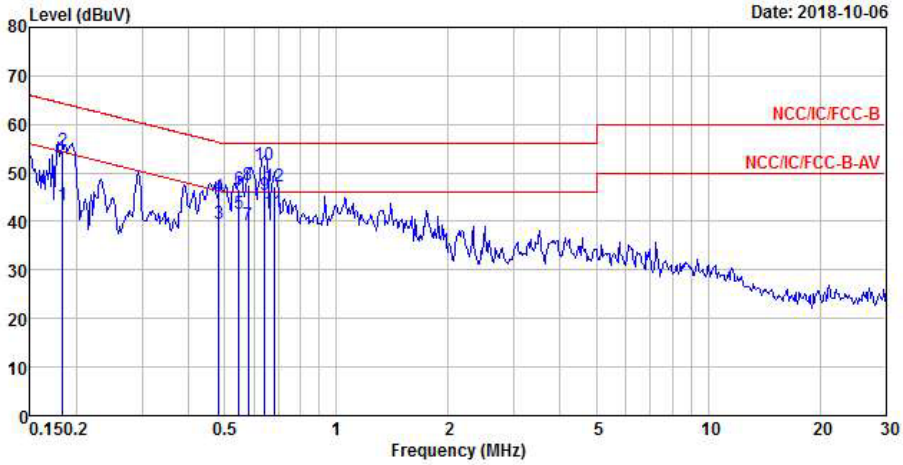
AC Power-line Conducted Emissions Result			
Operating Mode	1	**Power Phase**	Neutral
Operating Function	AC Main Mode		



	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.19	48.98	-4.86	53.84	39.36	9.62	0.00	Average
2	0.19	51.64	-12.20	63.84	42.02	9.62	0.00	QP
3	0.46	41.86	-4.81	46.67	32.17	9.61	0.08	Average
4	0.46	47.94	-8.73	56.67	38.25	9.61	0.08	QP
5	0.55	41.50	-4.50	46.00	31.83	9.61	0.06	Average
6	0.55	47.32	-8.68	56.00	37.65	9.61	0.06	QP
7	0.58	40.00	-6.00	46.00	30.33	9.61	0.06	Average
8	0.58	48.01	-7.99	56.00	38.34	9.61	0.06	QP
9 MAX	0.64	45.20	-0.80	46.00	35.53	9.62	0.05	Average
10	0.64	52.92	-3.08	56.00	43.25	9.62	0.05	QP
11	0.68	42.44	-3.56	46.00	32.78	9.62	0.04	Average
12	0.68	47.64	-8.36	56.00	37.98	9.62	0.04	QP

Note 1: “>20dB” means emission levels that exceed the level of 20 dB below the applicable limit.
Note 2: “N/F” means Nothing Found emissions (No emissions were detected.)

AC Power-line Conducted Emissions Result			
Operating Mode	1	**Power Phase**	Line
Operating Function	AC Main Mode		



	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.18	43.54	-10.79	54.33	33.91	9.62	0.01	Average
2	0.18	54.55	-9.78	64.33	44.92	9.62	0.01	QP
3	0.48	39.59	-6.68	46.27	29.90	9.61	0.08	Average
4	0.48	45.24	-11.03	56.27	35.55	9.61	0.08	QP
5	0.55	41.68	-4.32	46.00	32.00	9.61	0.07	Average
6	0.55	46.52	-9.48	56.00	36.84	9.61	0.07	QP
7	0.58	39.39	-6.61	46.00	29.72	9.61	0.06	Average
8	0.58	47.55	-8.45	56.00	37.88	9.61	0.06	QP
9 MAX	0.64	45.53	-0.47	46.00	35.87	9.61	0.05	Average
10	0.64	51.78	-4.22	56.00	42.12	9.61	0.05	QP
11	0.68	41.98	-4.02	46.00	32.33	9.61	0.04	Average
12	0.68	47.12	-8.88	56.00	37.47	9.61	0.04	QP

Note 1: “>20dB” means emission levels that exceed the level of 20 dB below the applicable limit.
Note 2: “N/F” means Nothing Found emissions (No emissions were detected.)

Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.15-5.25GHz	-	-	-	-	-
802.11ac VHT80+80_Nss1,(MCS0)_2TX	80.3M	75.162M	75M2D1D	80.3M	75.062M
5.25-5.35GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	27.825M	17.666M	17M7D1D	19.475M	16.342M
802.11ac VHT20_Nss1,(MCS0)_4TX	20.45M	17.566M	17M6D1D	19.775M	17.516M
802.11ac VHT40_Nss1,(MCS0)_4TX	40.8M	36.032M	36M0D1D	39.9M	35.932M
802.11ac VHT80_Nss1,(MCS0)_4TX	81.1M	75.162M	75M2D1D	79.6M	74.863M
802.11ac VHT80+80_Nss1,(MCS0)_2TX	80.3M	75.162M	75M2D1D	80.3M	75.062M
5.47-5.725GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	20.2M	16.417M	16M4D1D	14.775M	13.148M
802.11ac VHT20_Nss1,(MCS0)_4TX	20.5M	17.566M	17M6D1D	14.925M	13.748M
802.11ac VHT40_Nss1,(MCS0)_4TX	40.85M	36.132M	36M1D1D	35.14M	32.709M
802.11ac VHT80_Nss1,(MCS0)_4TX	87.45M	75.262M	75M3D1D	74.85M	71.814M
802.11ac VHT80+80_Nss1,(MCS0)_4TX	80.7M	75.412M	75M4D1D	80.1M	75.112M
5.725-5.85GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	3.16M	3.698M	3M70D1D	3.14M	3.558M
802.11ac VHT20_Nss1,(MCS0)_4TX	3.78M	4.058M	4M06D1D	3.5M	4.038M
802.11ac VHT40_Nss1,(MCS0)_4TX	3.14M	6.037M	6M04D1D	3.14M	3.918M
802.11ac VHT80_Nss1,(MCS0)_4TX	3.16M	32.404M	32M4D1D	3.14M	28.386M

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

Result

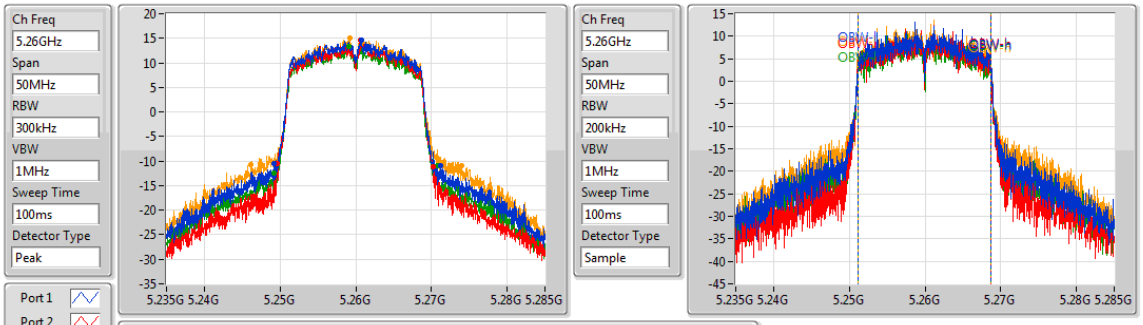
Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)	Port 3-N dB (Hz)	Port 3-OBW (Hz)	Port 4-N dB (Hz)	Port 4-OBW (Hz)
802.11a_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-	-	-
5260MHz_TnomVnom	Pass	Inf	22M	17.616M	20.65M	17.541M	21.55M	17.591M	27.825M	17.666M
5300MHz_TnomVnom	Pass	Inf	19.475M	16.367M	19.65M	16.342M	19.875M	16.342M	19.775M	16.392M
5320MHz_TnomVnom	Pass	Inf	19.525M	16.367M	19.7M	16.392M	19.9M	16.392M	19.725M	16.392M
5500MHz_TnomVnom	Pass	Inf	19.825M	16.392M	19.7M	16.417M	20.125M	16.367M	19.7M	16.392M
5580MHz_TnomVnom	Pass	Inf	19.6M	16.417M	19.75M	16.367M	20.2M	16.392M	19.7M	16.367M
5700MHz_TnomVnom	Pass	Inf	19.625M	16.367M	19.675M	16.367M	20M	16.367M	19.6M	16.367M
5720MHz Straddle 5.47-5.725GHz_TnomVnom	Pass	Inf	14.85M	13.163M	14.88M	13.178M	14.91M	13.148M	14.775M	13.163M
5720MHz Straddle 5.725-5.85GHz_TnomVnom	Pass	500k	3.14M	3.558M	3.16M	3.678M	3.14M	3.658M	3.16M	3.698M
802.11ac VHT20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5260MHz_TnomVnom	Pass	Inf	20.4M	17.541M	19.95M	17.541M	19.85M	17.516M	20.25M	17.541M
5300MHz_TnomVnom	Pass	Inf	20.45M	17.566M	19.875M	17.541M	19.925M	17.516M	20.3M	17.541M
5320MHz_TnomVnom	Pass	Inf	20.45M	17.566M	19.775M	17.541M	19.925M	17.541M	20.25M	17.516M
5500MHz_TnomVnom	Pass	Inf	20.35M	17.541M	19.925M	17.516M	19.85M	17.541M	20.25M	17.566M
5580MHz_TnomVnom	Pass	Inf	20.5M	17.541M	19.9M	17.516M	19.95M	17.541M	20.3M	17.566M
5700MHz_TnomVnom	Pass	Inf	20.425M	17.566M	19.95M	17.566M	20M	17.541M	20.225M	17.516M
5720MHz Straddle 5.47-5.725GHz_TnomVnom	Pass	Inf	15.12M	13.793M	14.925M	13.748M	15M	13.778M	14.97M	13.763M
5720MHz Straddle 5.725-5.85GHz_TnomVnom	Pass	500k	3.5M	4.038M	3.76M	4.058M	3.78M	4.058M	3.76M	4.058M
802.11ac VHT40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5270MHz_TnomVnom	Pass	Inf	40.8M	35.932M	39.9M	36.032M	40.55M	36.032M	40.45M	35.982M
5310MHz_TnomVnom	Pass	Inf	40.55M	35.982M	39.9M	35.932M	40.35M	35.982M	40.25M	35.932M
5510MHz_TnomVnom	Pass	Inf	40.85M	35.932M	39.9M	35.982M	40.5M	35.932M	40.4M	35.932M
5550MHz_TnomVnom	Pass	Inf	40.5M	35.982M	40M	36.032M	40.15M	35.932M	40.3M	35.982M
5670MHz_TnomVnom	Pass	Inf	40.3M	35.982M	39.8M	36.082M	40.15M	35.982M	40.45M	36.132M
5710MHz Straddle 5.47-5.725GHz_TnomVnom	Pass	Inf	35.63M	32.814M	35.14M	32.709M	35.175M	32.779M	35.14M	32.779M
5710MHz Straddle 5.725-5.85GHz_TnomVnom	Pass	500k	3.14M	4.858M	3.14M	4.138M	3.14M	3.918M	3.14M	6.037M
802.11ac VHT80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5290MHz_TnomVnom	Pass	Inf	81.1M	74.863M	79.6M	74.863M	80.2M	74.963M	79.9M	75.162M
5530MHz_TnomVnom	Pass	Inf	81.2M	75.262M	79.4M	74.963M	79.9M	75.062M	80M	74.963M
5610MHz_TnomVnom	Pass	Inf	81.3M	75.162M	79.5M	75.162M	80.5M	75.162M	80M	75.262M
5690MHz Straddle 5.47-5.725GHz_TnomVnom	Pass	Inf	87.45M	72.114M	75.225M	71.814M	76.35M	71.889M	74.85M	71.964M
5690MHz Straddle 5.725-5.85GHz_TnomVnom	Pass	500k	3.14M	30.805M	3.14M	30.405M	3.14M	28.386M	3.16M	32.404M
802.11ac VHT80+80_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-
#5210MHz,5290MHz_TnomVnom	Pass	Inf	80.3M	75.062M	80.3M	75.162M				
5210MHz,#5290MHz_TnomVnom	Pass	Inf					80.3M	75.062M	80.3M	75.162M
#5530MHz,#5610MHz_TnomVnom	Pass	Inf	80.1M	75.412M	80.25M	75.262M	80.7M	75.262M	80.4M	75.112M

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

802.11a_Nss1,(6Mbps)_4TX **EBW**

5260MHz

18/10/2018

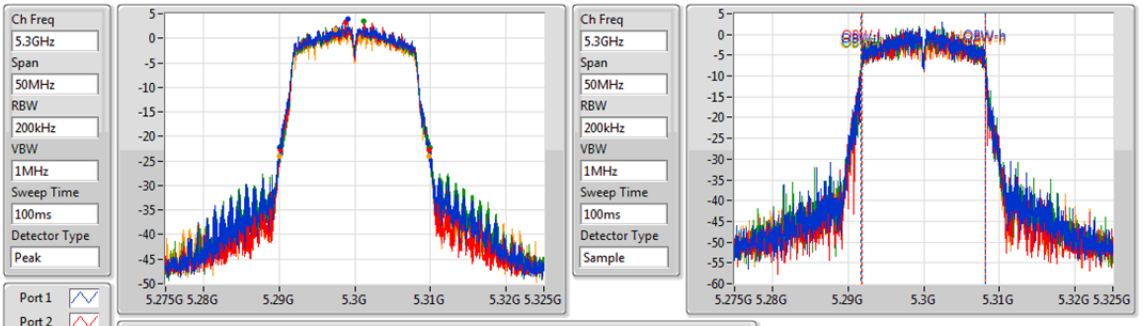


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
22M	5.2492G	5.2712G	17.616M	5.251129G	5.268746G	Inf	1
20.65M	5.24965G	5.2703G	17.541M	5.251154G	5.268696G	Inf	2
21.55M	5.249175G	5.270725G	17.591M	5.251129G	5.268721G	Inf	3
27.825M	5.24615G	5.273975G	17.666M	5.251104G	5.268771G	Inf	4

802.11a_Nss1,(6Mbps)_4TX **EBW**

5300MHz

14/03/2018

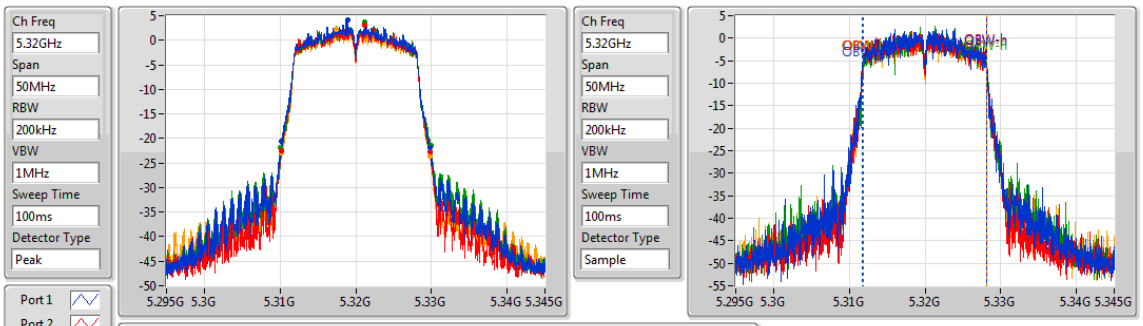


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
19.475M	5.2902G	5.309675G	16.367M	5.291779G	5.308146G	Inf	1
19.65M	5.2902G	5.30985G	16.342M	5.291804G	5.308146G	Inf	2
19.875M	5.2901G	5.309975G	16.342M	5.291804G	5.308146G	Inf	3
19.775M	5.290075G	5.30985G	16.392M	5.291779G	5.308171G	Inf	4

802.11a_Nss1,(6Mbps)_4TX **EBW**

5320MHz

14/03/2018

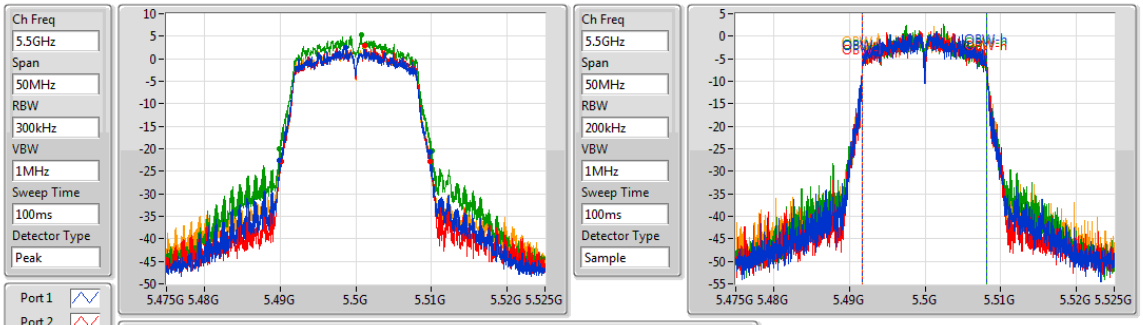


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
19.525M	5.310225G	5.32975G	16.367M	5.311779G	5.328146G	Inf	1
19.7M	5.31015G	5.32985G	16.392M	5.311779G	5.328171G	Inf	2
19.9M	5.31005G	5.32995G	16.392M	5.311804G	5.328196G	Inf	3
19.725M	5.31015G	5.329875G	16.392M	5.311779G	5.328171G	Inf	4

802.11a_Nss1,(6Mbps)_4TX **EBW**

5500MHz

14/03/2018

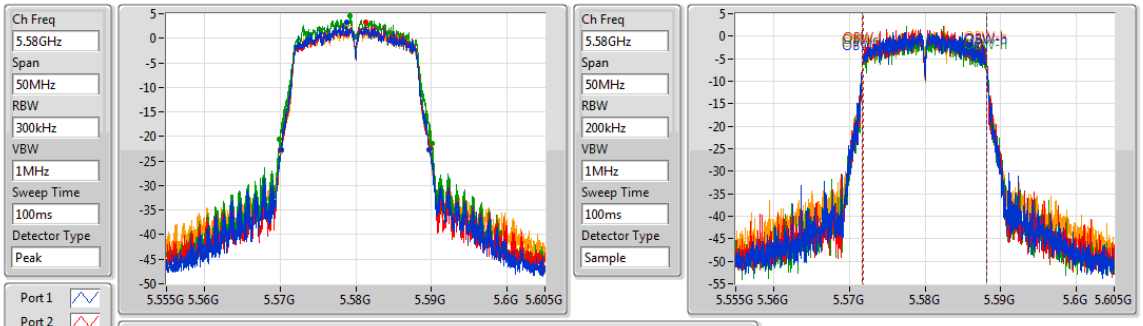


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
19.825M	5.48995G	5.509775G	16.392M	5.491754G	5.508146G	Inf	1
19.7M	5.49015G	5.50985G	16.417M	5.491779G	5.508196G	Inf	2
20.125M	5.48995G	5.510075G	16.367M	5.491779G	5.508146G	Inf	3
19.7M	5.490125G	5.509825G	16.392M	5.491779G	5.508171G	Inf	4

802.11a_Nss1,(6Mbps)_4TX **EBW**

5580MHz

14/03/2018

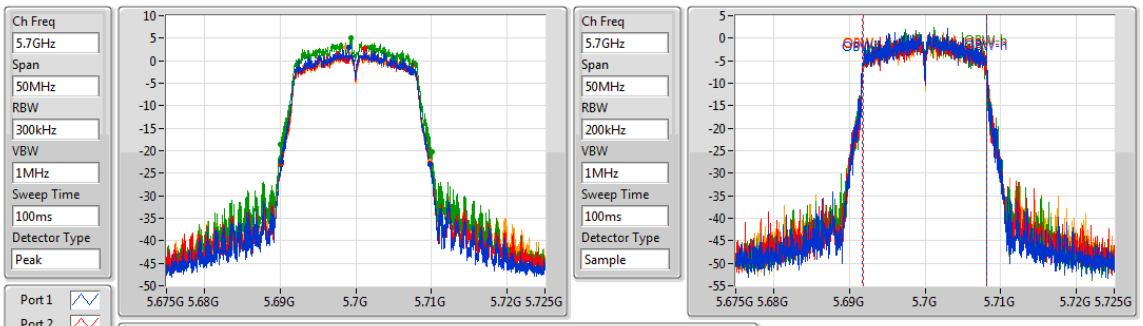


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
19.6M	5.570125G	5.589725G	16.417M	5.571754G	5.588171G	Inf	1
19.75M	5.5701G	5.58985G	16.367M	5.571804G	5.588171G	Inf	2
20.2M	5.569925G	5.590125G	16.392M	5.571779G	5.588171G	Inf	3
19.7M	5.570125G	5.589825G	16.367M	5.571779G	5.588146G	Inf	4

802.11a_Nss1,(6Mbps)_4TX **EBW**

5700MHz

14/03/2018



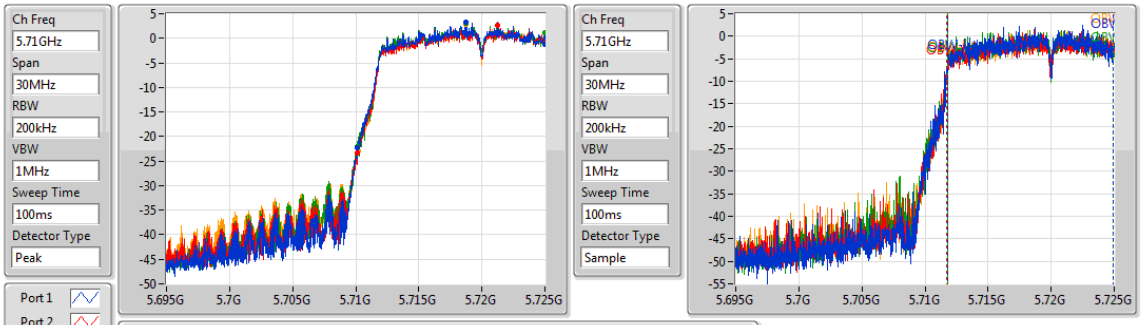
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
19.625M	5.69015G	5.709775G	16.367M	5.691779G	5.708146G	Inf	1
19.675M	5.690175G	5.70985G	16.367M	5.691804G	5.708171G	Inf	2
20M	5.690075G	5.710075G	16.367M	5.691779G	5.708146G	Inf	3
19.6M	5.690225G	5.709825G	16.367M	5.691804G	5.708171G	Inf	4

802.11a_Nss1,(6Mbps)_4TX

EBW

5720MHz Straddle 5.47-5.725GHz

14/03/2018



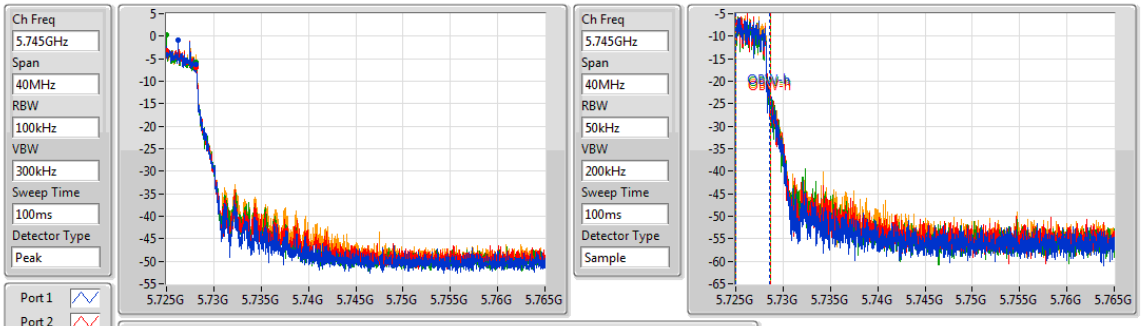
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
14.85M	5.71015G	5.725G	13.163M	5.711769G	5.724933G	Inf	1
14.88M	5.71012G	5.725G	13.178M	5.711754G	5.724933G	Inf	2
14.91M	5.71009G	5.725G	13.148M	5.711769G	5.724918G	Inf	3
14.775M	5.710225G	5.725G	13.163M	5.711769G	5.724933G	Inf	4

802.11a_Nss1,(6Mbps)_4TX

EBW

5720MHz Straddle 5.725-5.85GHz

14/03/2018



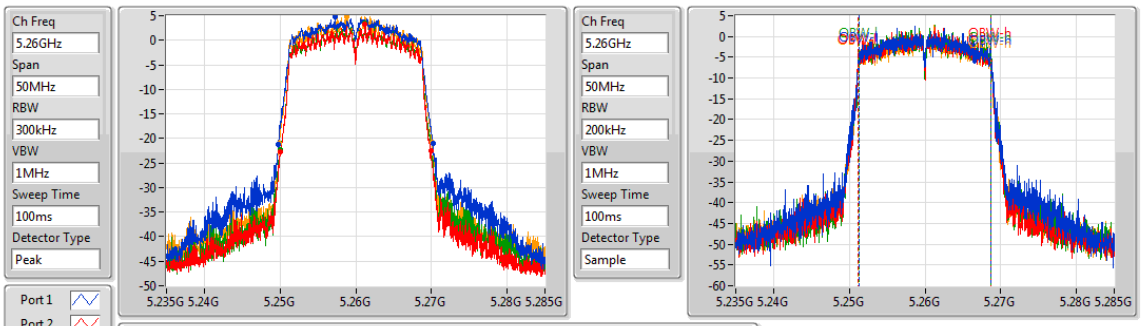
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
3.14M	5.725G	5.72814G	3.558M	5.72501G	5.728568G	500k	1
3.16M	5.725G	5.72816G	3.678M	5.72501G	5.728688G	500k	2
3.14M	5.725G	5.72814G	3.658M	5.72501G	5.728668G	500k	3
3.16M	5.725G	5.72816G	3.698M	5.72501G	5.728708G	500k	4

802.11ac VHT20_Nss1,(MCS0)_4TX

EBW

5260MHz

14/03/2018

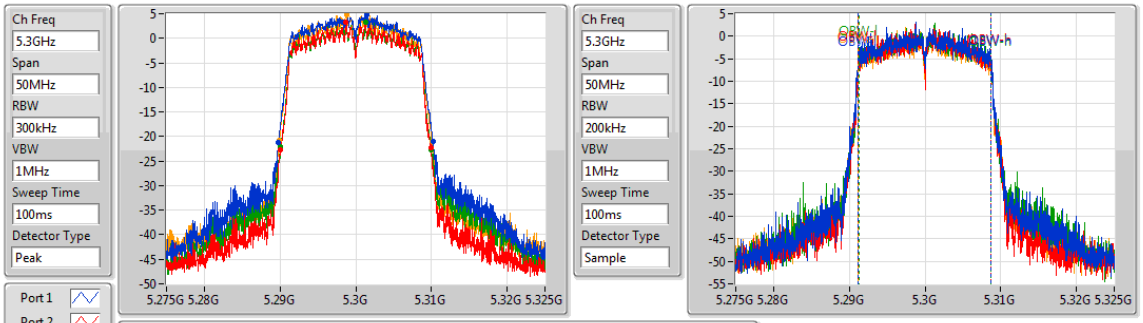


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
20.4M	5.2498G	5.2702G	17.541M	5.251229G	5.268771G	Inf	1
19.95M	5.25G	5.26995G	17.541M	5.251179G	5.268721G	Inf	2
19.85M	5.25005G	5.2699G	17.516M	5.251229G	5.268746G	Inf	3
20.25M	5.249875G	5.270125G	17.541M	5.251179G	5.268721G	Inf	4

802.11ac VHT20_Nss1,(MCS0)_4TX EBW

5300MHz

14/03/2018

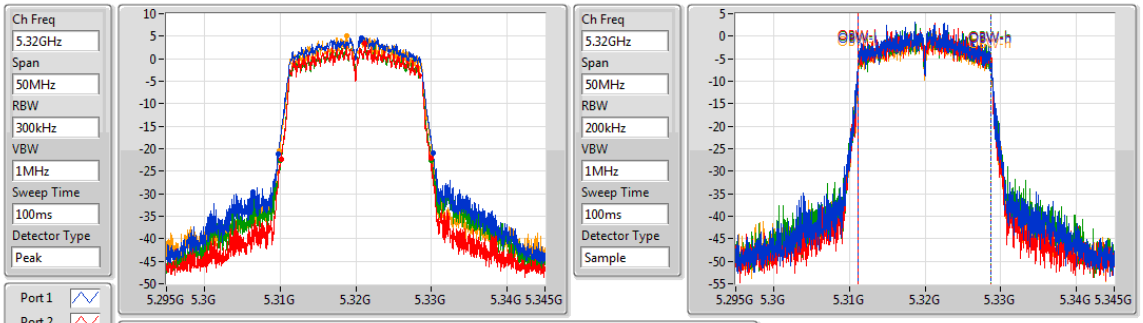


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
20.45M	5.289775G	5.310225G	17.566M	5.291179G	5.308746G	Inf	1
19.875M	5.290075G	5.30995G	17.541M	5.291204G	5.308746G	Inf	2
19.925M	5.290075G	5.31G	17.516M	5.291229G	5.308746G	Inf	3
20.3M	5.28985G	5.31015G	17.541M	5.291204G	5.308746G	Inf	4

802.11ac VHT20_Nss1,(MCS0)_4TX EBW

5320MHz

14/03/2018

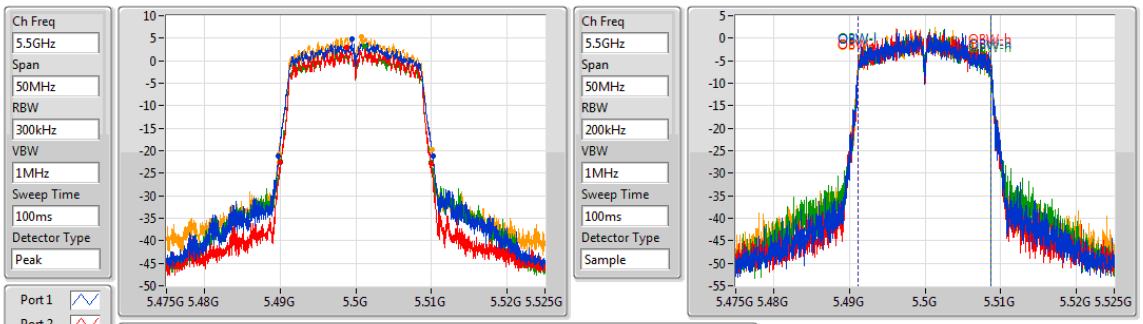


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
20.45M	5.309775G	5.330225G	17.566M	5.311179G	5.328746G	Inf	1
19.775M	5.310125G	5.3299G	17.541M	5.311204G	5.328746G	Inf	2
19.925M	5.31005G	5.329975G	17.541M	5.311204G	5.328746G	Inf	3
20.25M	5.309875G	5.330125G	17.516M	5.311204G	5.328721G	Inf	4

802.11ac VHT20_Nss1,(MCS0)_4TX EBW

5500MHz

14/03/2018

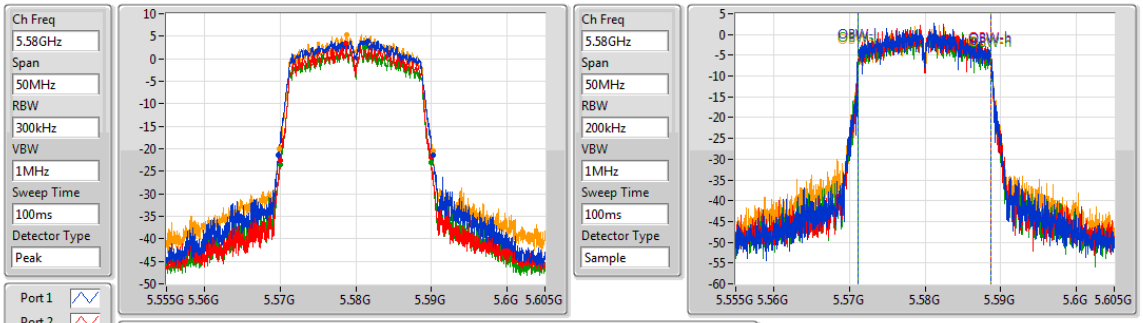


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
20.35M	5.489825G	5.510175G	17.541M	5.491204G	5.508746G	Inf	1
19.925M	5.49005G	5.509975G	17.516M	5.491204G	5.508721G	Inf	2
19.85M	5.4901G	5.50995G	17.541M	5.491179G	5.508721G	Inf	3
20.25M	5.48985G	5.5101G	17.566M	5.491179G	5.508746G	Inf	4

802.11ac VHT20_Nss1,(MCS0)_4TX **EBW**

5580MHz

14/03/2018

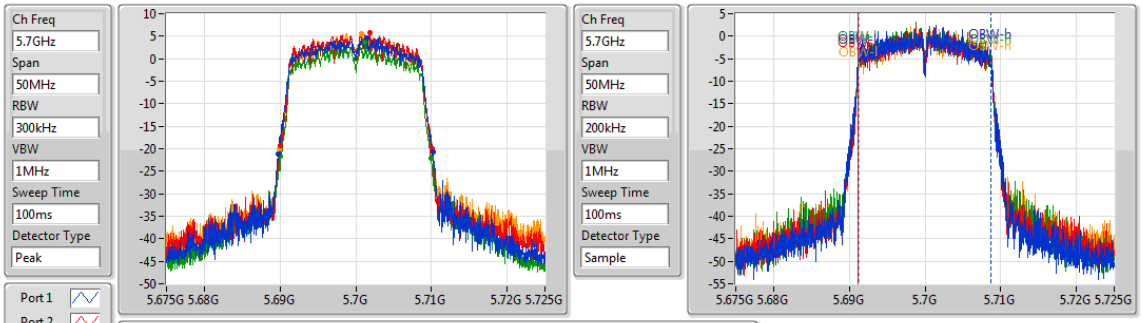


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
20.5M	5.56975G	5.59025G	17.541M	5.571204G	5.588746G	Inf	1
19.9M	5.57G	5.5899G	17.516M	5.571204G	5.588721G	Inf	2
19.95M	5.569975G	5.589925G	17.541M	5.571204G	5.588746G	Inf	3
20.3M	5.569875G	5.590175G	17.566M	5.571179G	5.588746G	Inf	4

802.11ac VHT20_Nss1,(MCS0)_4TX **EBW**

5700MHz

14/03/2018



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
20.425M	5.6898G	5.710225G	17.566M	5.691179G	5.708746G	Inf	1
19.95M	5.6901G	5.71005G	17.566M	5.691204G	5.708771G	Inf	2
20M	5.690025G	5.710025G	17.541M	5.691204G	5.708746G	Inf	3
20.225M	5.6899G	5.710125G	17.516M	5.691229G	5.708746G	Inf	4

802.11ac VHT20_Nss1,(MCS0)_4TX **EBW**

5720MHz Straddle 5.47-5.725GHz

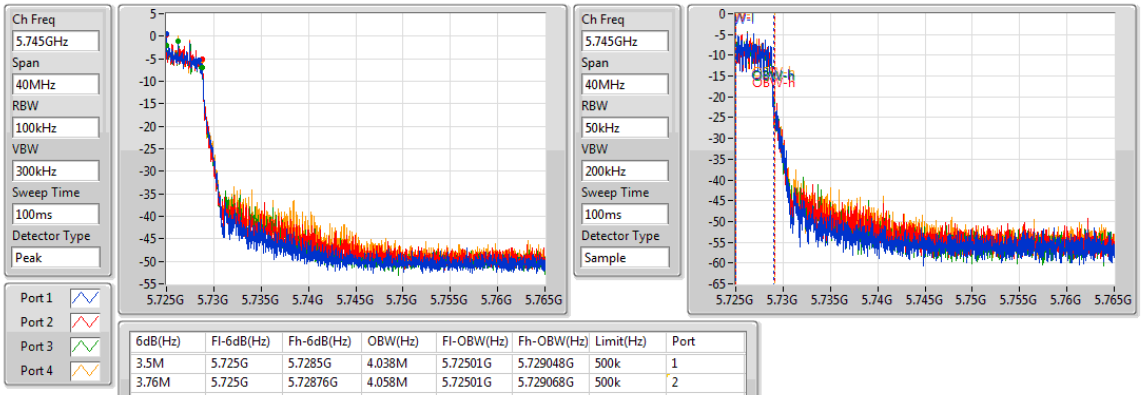
14/03/2018

26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
15.12M	5.70988G	5.725G	13.793M	5.711154G	5.724948G	Inf	1
14.925M	5.710075G	5.725G	13.748M	5.711199G	5.724948G	Inf	2
15M	5.71G	5.725G	13.778M	5.711169G	5.724948G	Inf	3
14.97M	5.71003G	5.725G	13.763M	5.711169G	5.724933G	Inf	4

802.11ac VHT20_Nss1,(MCS0)_4TX **EBW**

5720MHz Straddle 5.725-5.85GHz

14/03/2018

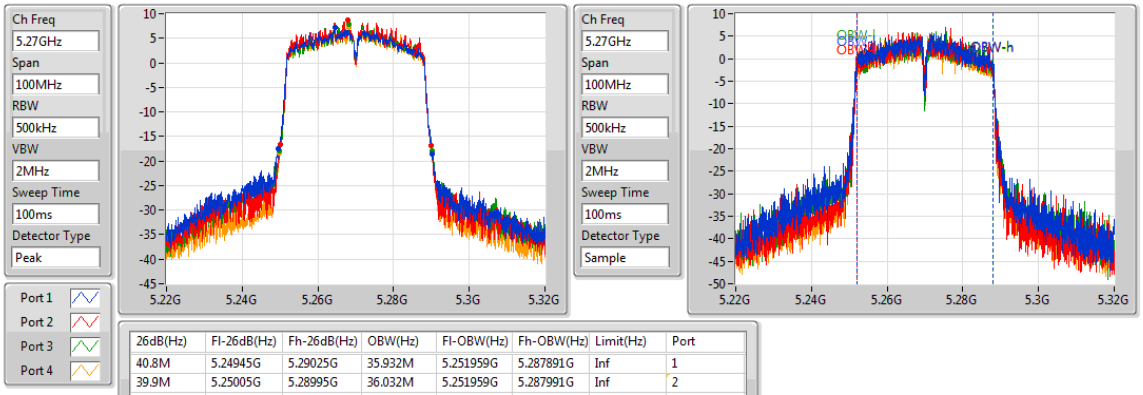


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
3.5M	5.725G	5.7285G	4.038M	5.72501G	5.729048G	500k	1
3.76M	5.725G	5.72876G	4.058M	5.72501G	5.729068G	500k	2
3.78M	5.725G	5.72878G	4.058M	5.72501G	5.729068G	500k	3
3.76M	5.725G	5.72876G	4.058M	5.72501G	5.729068G	500k	4

802.11ac VHT40_Nss1,(MCS0)_4TX **EBW**

5270MHz

14/03/2018

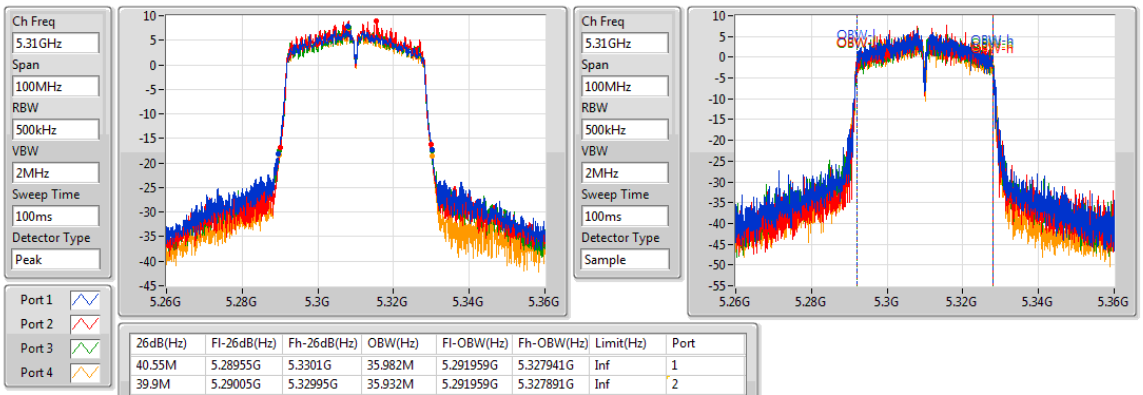


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
40.8M	5.24945G	5.29025G	35.932M	5.251959G	5.287891G	Inf	1
39.9M	5.25005G	5.28995G	36.032M	5.251959G	5.287991G	Inf	2
40.55M	5.2497G	5.29025G	36.032M	5.251959G	5.287991G	Inf	3
40.45M	5.24975G	5.2902G	35.982M	5.251909G	5.287891G	Inf	4

802.11ac VHT40_Nss1,(MCS0)_4TX **EBW**

5310MHz

14/03/2018

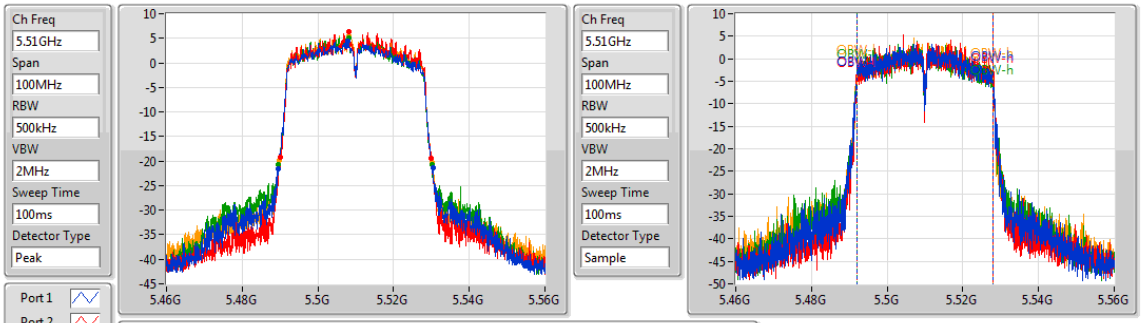


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
40.55M	5.28955G	5.3301G	35.982M	5.291959G	5.327941G	Inf	1
39.9M	5.29005G	5.32995G	35.932M	5.291959G	5.327891G	Inf	2
40.35M	5.2898G	5.33015G	35.982M	5.291959G	5.327941G	Inf	3
40.25M	5.2899G	5.33015G	35.932M	5.292009G	5.327941G	Inf	4

802.11ac VHT40_Nss1,(MCS0)_4TX **EBW**

5510MHz

14/03/2018

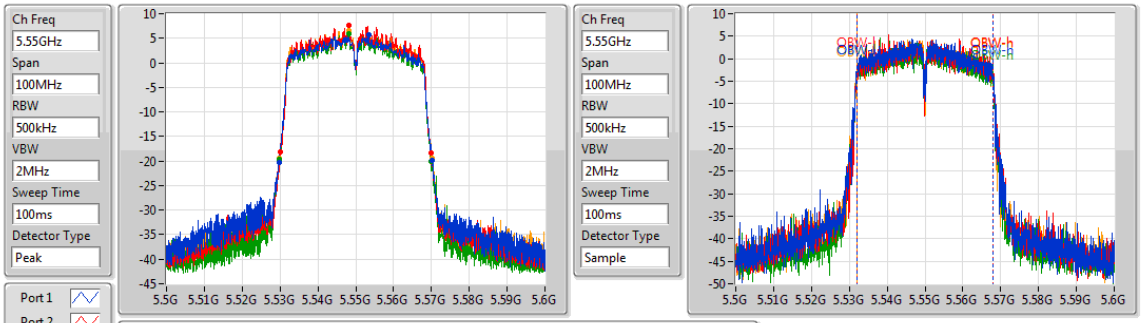


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
40.85M	5.4895G	5.53035G	35.932M	5.491959G	5.527891G	Inf	1
39.9M	5.49005G	5.52995G	35.982M	5.492009G	5.527991G	Inf	2
40.5M	5.4896G	5.5301G	35.932M	5.491909G	5.527841G	Inf	3
40.4M	5.48985G	5.53025G	35.932M	5.491959G	5.527891G	Inf	4

802.11ac VHT40_Nss1,(MCS0)_4TX **EBW**

5550MHz

14/03/2018

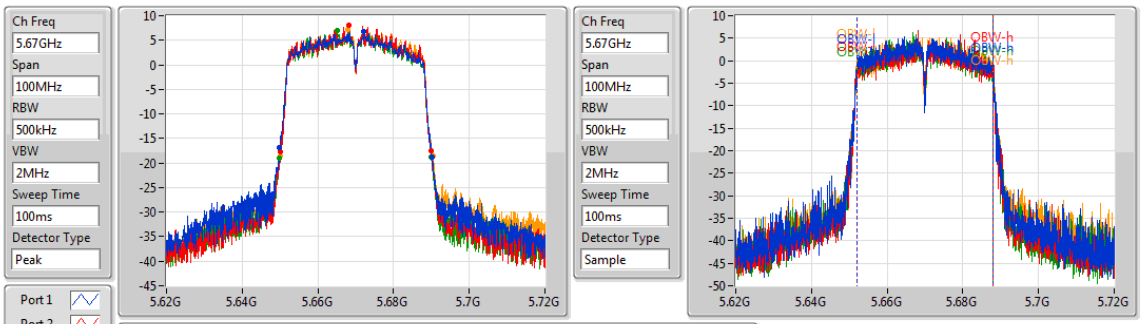


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
40.5M	5.5297G	5.5702G	35.982M	5.531959G	5.567941G	Inf	1
40M	5.52995G	5.56995G	36.032M	5.531959G	5.567991G	Inf	2
40.15M	5.52985G	5.57G	35.932M	5.531959G	5.567891G	Inf	3
40.3M	5.5298G	5.5701G	35.982M	5.531959G	5.567941G	Inf	4

802.11ac VHT40_Nss1,(MCS0)_4TX **EBW**

5670MHz

14/03/2018



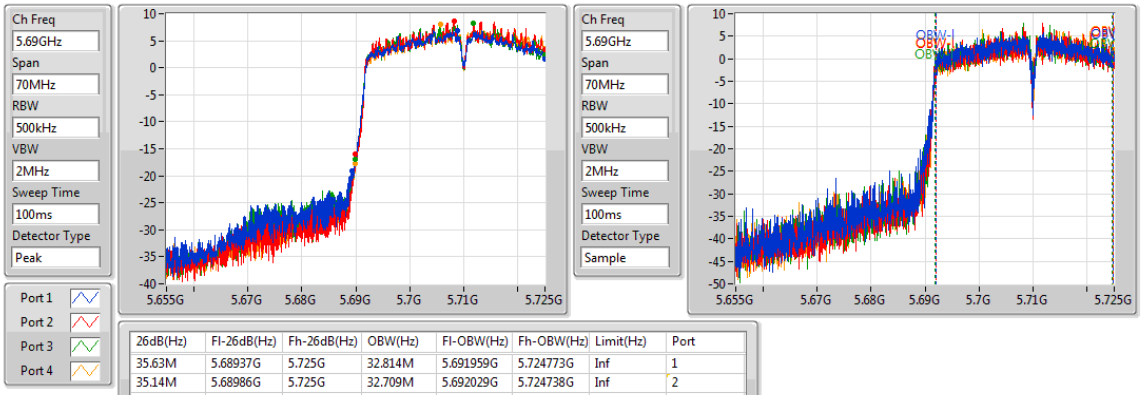
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
40.3M	5.6498G	5.6901G	35.982M	5.651959G	5.687941G	Inf	1
39.8M	5.65005G	5.68985G	36.082M	5.651909G	5.687991G	Inf	2
40.15M	5.64985G	5.69G	35.982M	5.651909G	5.687891G	Inf	3
40.45M	5.64995G	5.6904G	36.132M	5.651909G	5.688041G	Inf	4

802.11ac VHT40_Nss1,(MCS0)_4TX

EBW

5710MHz Straddle 5.47-5.725GHz

14/03/2018



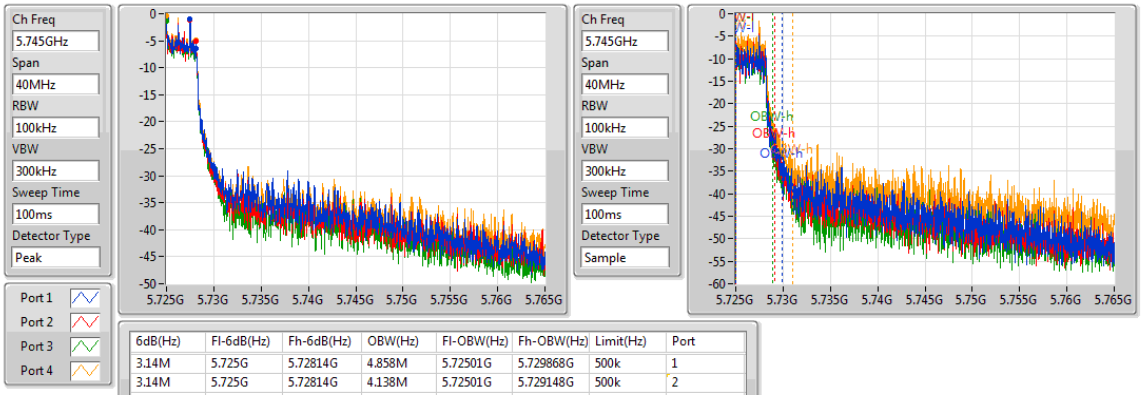
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
35.63M	5.68937G	5.725G	32.814M	5.691959G	5.724773G	Inf	1
35.14M	5.68986G	5.725G	32.709M	5.692029G	5.724738G	Inf	2
35.175M	5.689825G	5.725G	32.779M	5.691924G	5.724703G	Inf	3
35.14M	5.68986G	5.725G	32.779M	5.692029G	5.724808G	Inf	4

802.11ac VHT40_Nss1,(MCS0)_4TX

EBW

5710MHz Straddle 5.725-5.85GHz

14/03/2018



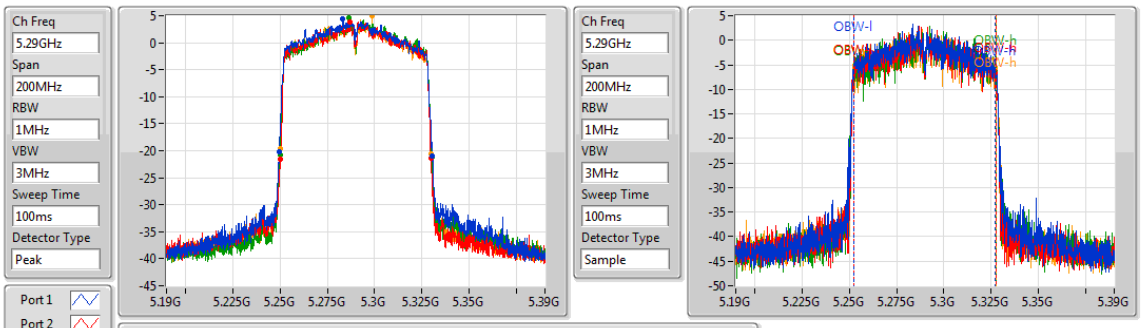
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
3.14M	5.725G	5.72814G	4.858M	5.72501G	5.729868G	500k	1
3.14M	5.725G	5.72814G	4.138M	5.72501G	5.729148G	500k	2
3.14M	5.725G	5.72814G	3.918M	5.72501G	5.728928G	500k	3
3.14M	5.725G	5.72814G	6.037M	5.72501G	5.731047G	500k	4

802.11ac VHT80_Nss1,(MCS0)_4TX

EBW

5290MHz

14/03/2018

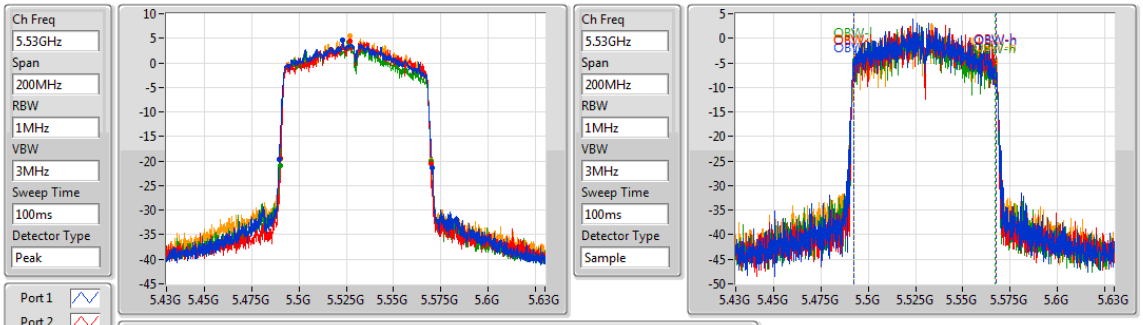


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
81.1M	5.2495G	5.3306G	74.863M	5.252419G	5.327281G	Inf	1
79.6M	5.2501G	5.3297G	74.863M	5.252519G	5.327381G	Inf	2
80.2M	5.25G	5.3302G	74.963M	5.252619G	5.327581G	Inf	3
79.9M	5.25G	5.3299G	75.162M	5.252219G	5.327381G	Inf	4

802.11ac VHT80_Nss1,(MCS0)_4TX **EBW**

5530MHz

14/03/2018

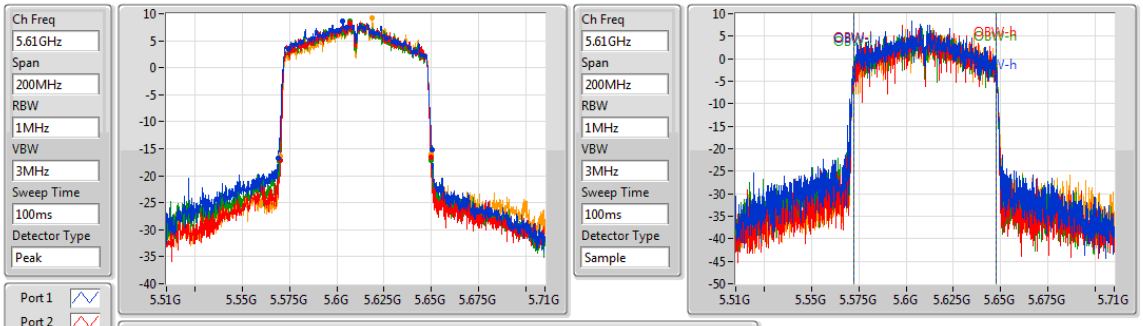


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
81.2M	5.4894G	5.5706G	75.262M	5.492219G	5.567481G	Inf	1
79.4M	5.4902G	5.5696G	74.963M	5.492419G	5.567381G	Inf	2
79.9M	5.4899G	5.5698G	75.062M	5.492219G	5.567281G	Inf	3
80M	5.4899G	5.5699G	74.963M	5.492519G	5.567481G	Inf	4

802.11ac VHT80_Nss1,(MCS0)_4TX **EBW**

5610MHz

14/03/2018

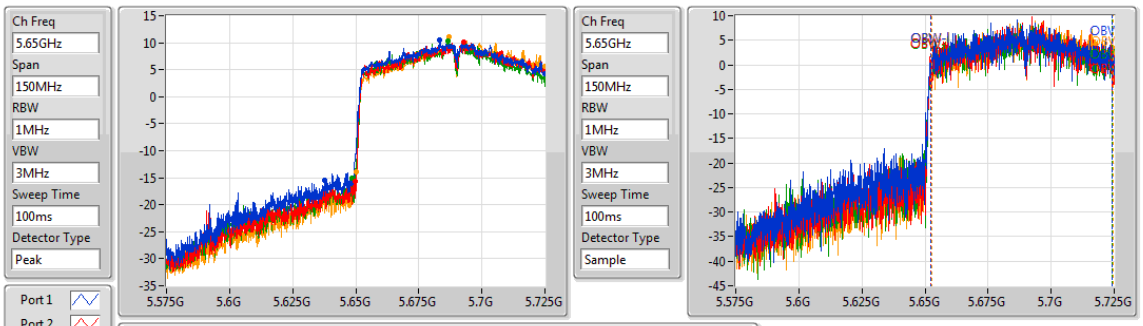


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
81.3M	5.5692G	5.6505G	75.162M	5.572319G	5.647481G	Inf	1
79.5M	5.5702G	5.6497G	75.162M	5.572319G	5.647481G	Inf	2
80.5M	5.5696G	5.6501G	75.162M	5.572319G	5.647481G	Inf	3
80M	5.57G	5.65G	75.262M	5.572419G	5.647681G	Inf	4

802.11ac VHT80_Nss1,(MCS0)_4TX **EBW**

5690MHz Straddle 5.47-5.725GHz

14/03/2018

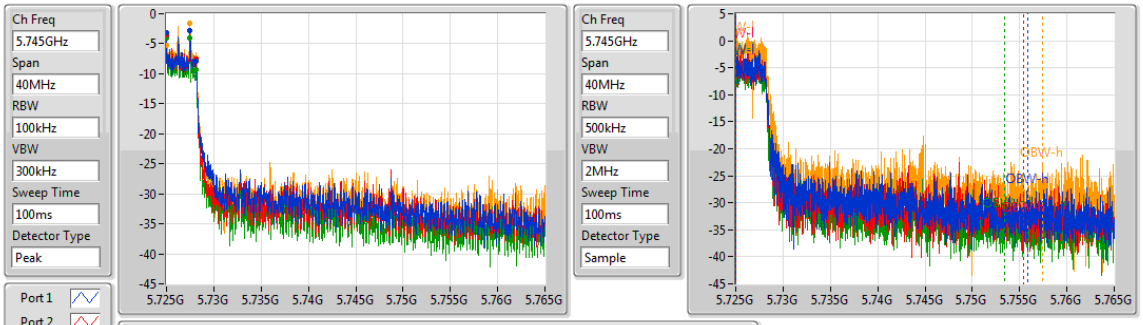


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
87.45M	5.63755G	5.725G	72.114M	5.652174G	5.724288G	Inf	1
75.225M	5.649775G	5.725G	71.814M	5.652399G	5.724213G	Inf	2
76.35M	5.64865G	5.725G	71.889M	5.652249G	5.724138G	Inf	3
74.85M	5.65015G	5.725G	71.964M	5.652549G	5.724513G	Inf	4

802.11ac VHT80_Nss1,(MCS0)_4TX **EBW**

5690MHz Straddle 5.725-5.85GHz

14/03/2018

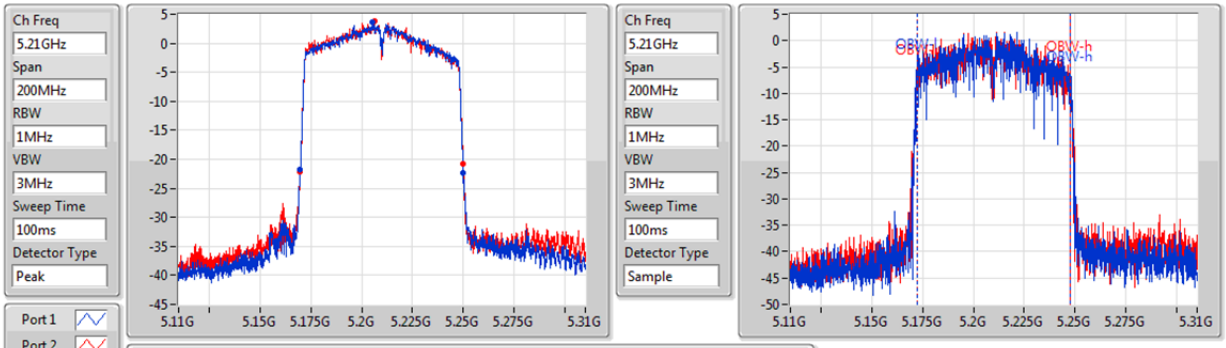


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
3.14M	5.725G	5.72814G	30.805M	5.72503G	5.755835G	500k	1
3.14M	5.725G	5.72814G	30.405M	5.72501G	5.755415G	500k	2
3.14M	5.725G	5.72814G	28.386M	5.72501G	5.753396G	500k	3
3.16M	5.725G	5.72816G	32.404M	5.72501G	5.757414G	500k	4

802.11ac VHT80+80_Nss2,(MCS0)_4TX **EBW**

#5210MHz,5290MHz

14/03/2018

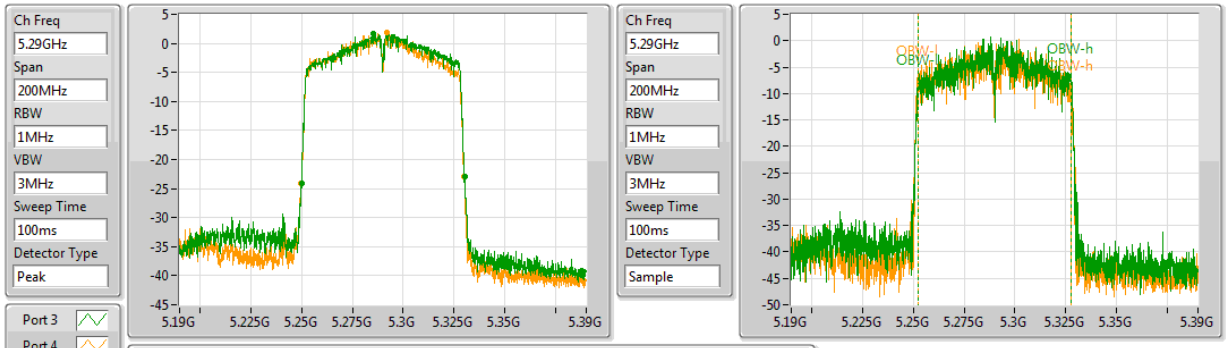


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
80.3M	5.1697G	5.25G	75.062M	5.172319G	5.247381G	Inf	1
80.3M	5.1697G	5.25G	75.162M	5.172319G	5.247481G	Inf	2

802.11ac VHT80+80_Nss1,(MCS0)_2TX **EBW**

5210MHz,#5290MHz

16/03/2018

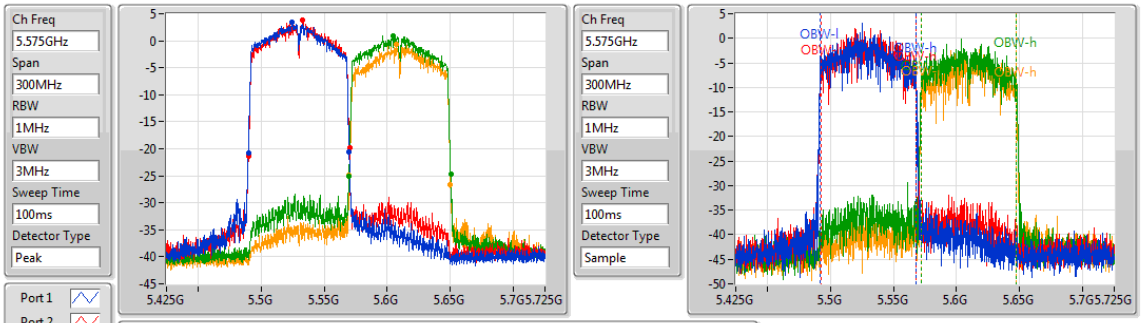


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
80.3M	5.25G	5.3303G	75.062M	5.252619G	5.327681G	Inf	3
80.3M	5.2498G	5.3301G	75.162M	5.252319G	5.327481G	Inf	4

802.11ac VHT80+80_Nss1,(MCS0)_4TX **EBW**

#5530MHz,#5610MHz

14/03/2018



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
80.1M	5.4898G	5.5699G	75.412M	5.492241G	5.567654G	Inf	1
80.25M	5.4898G	5.57005G	75.262M	5.492391G	5.567654G	Inf	2
80.7M	5.5696G	5.6503G	75.262M	5.572151G	5.647414G	Inf	3
80.4M	5.56975G	5.65015G	75.112M	5.572301G	5.647414G	Inf	4

Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.15-5.25GHz	-	-	-	-	-
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	26.45M	17.741M	17M7D1D	19.7M	17.616M
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	69.6M	36.332M	36M3D1D	40.35M	36.182M
802.11ac VHT80-BF_Nss1,(MCS0)_4TX	81.3M	75.962M	76M0D1D	80.9M	75.762M
802.11ac VHT80+80-BF_Nss2,(MCS0)_2TX	81.1M	75.962M	76M0D1D	80.7M	75.962M
5.25-5.35GHz	-	-	-	-	-
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	19.975M	17.716M	17M7D1D	19.7M	17.616M
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	40.65M	36.232M	36M2D1D	40.3M	36.132M
802.11ac VHT80-BF_Nss1,(MCS0)_4TX	81.3M	75.862M	75M9D1D	80.8M	75.662M
802.11ac VHT80+80-BF_Nss2,(MCS0)_2TX	82.9M	75.962M	76M0D1D	80.8M	75.862M
5.47-5.725GHz	-	-	-	-	-
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	19.95M	17.691M	17M7D1D	14.865M	13.748M
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	40.9M	36.282M	36M3D1D	35.035M	32.919M
802.11ac VHT80-BF_Nss1,(MCS0)_4TX	81.2M	76.062M	76M1D1D	75.375M	72.489M
802.11ac VHT80+80-BF_Nss2,(MCS0)_4TX	135.75M	76.462M	76M5D1D	79.65M	75.712M
5.725-5.85GHz	-	-	-	-	-
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	17.625M	17.766M	17M8D1D	3.82M	3.978M
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	35.75M	39.33M	39M3D1D	3.24M	3.598M
802.11ac VHT80-BF_Nss1,(MCS0)_4TX	75.4M	76.062M	76M1D1D	3.26M	3.558M

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

Result

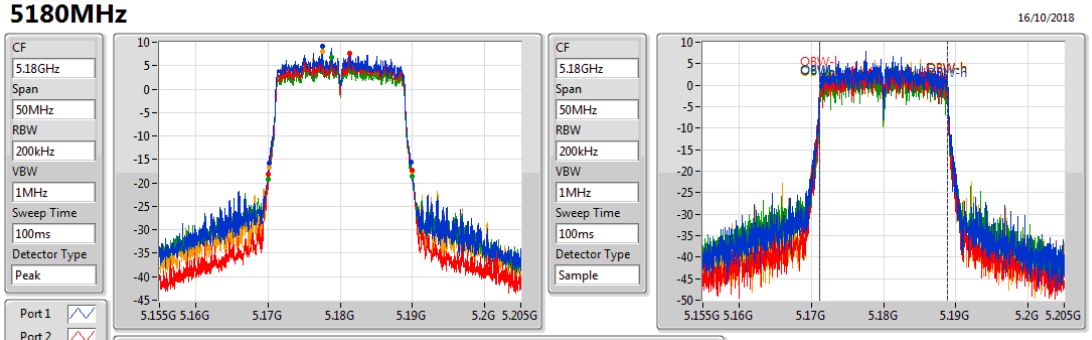
Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)	Port 3-N dB (Hz)	Port 3-OBW (Hz)	Port 4-N dB (Hz)	Port 4-OBW (Hz)
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz_TnomVnom	Pass	Inf	19.7M	17.666M	19.85M	17.666M	19.975M	17.691M	19.75M	17.616M
5200MHz_TnomVnom	Pass	Inf	19.925M	17.666M	19.75M	17.666M	19.9M	17.691M	20.3M	17.641M
5240MHz_TnomVnom	Pass	Inf	25.025M	17.741M	19.975M	17.641M	21.625M	17.691M	26.45M	17.691M
5260MHz_TnomVnom	Pass	Inf	19.825M	17.716M	19.8M	17.691M	19.7M	17.616M	19.825M	17.641M
5300MHz_TnomVnom	Pass	Inf	19.825M	17.616M	19.8M	17.641M	19.75M	17.666M	19.8M	17.641M
5320MHz_TnomVnom	Pass	Inf	19.8M	17.691M	19.8M	17.666M	19.975M	17.691M	19.775M	17.641M
5500MHz_TnomVnom	Pass	Inf	19.825M	17.591M	19.875M	17.591M	19.875M	17.691M	19.95M	17.641M
5580MHz_TnomVnom	Pass	Inf	19.8M	17.641M	19.8M	17.666M	19.75M	17.641M	19.875M	17.641M
5700MHz_TnomVnom	Pass	Inf	19.8M	17.641M	19.775M	17.666M	19.85M	17.666M	19.95M	17.666M
5720MHz Straddle 5.47-5.725GHz_TnomVnom	Pass	Inf	14.91M	13.763M	14.865M	13.748M	14.88M	13.793M	14.94M	13.763M
5720MHz Straddle 5.725-5.85GHz_TnomVnom	Pass	500k	3.86M	3.978M	3.84M	3.998M	3.84M	4.078M	3.82M	4.038M
5745MHz_TnomVnom	Pass	500k	15.675M	17.666M	15.95M	17.716M	17.6M	17.616M	17.575M	17.766M
5785MHz_TnomVnom	Pass	500k	16.55M	17.666M	17.625M	17.716M	16.875M	17.641M	16.55M	17.741M
5825MHz_TnomVnom	Pass	500k	17.2M	17.716M	17.625M	17.691M	17.25M	17.691M	16.85M	17.766M
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5190MHz_TnomVnom	Pass	Inf	40.45M	36.182M	40.35M	36.232M	40.6M	36.182M	40.5M	36.282M
5230MHz_TnomVnom	Pass	Inf	61.55M	36.282M	64.05M	36.232M	69.6M	36.232M	67.05M	36.332M
5270MHz_TnomVnom	Pass	Inf	40.6M	36.232M	40.35M	36.232M	40.3M	36.232M	40.65M	36.182M
5310MHz_TnomVnom	Pass	Inf	40.4M	36.232M	40.6M	36.132M	40.45M	36.232M	40.45M	36.182M
5510MHz_TnomVnom	Pass	Inf	40.3M	36.082M	40.35M	36.082M	40.6M	36.182M	40.55M	36.132M
5550MHz_TnomVnom	Pass	Inf	40.65M	36.232M	40.55M	36.282M	40.5M	36.282M	40.65M	36.232M
5670MHz_TnomVnom	Pass	Inf	40.5M	36.182M	40.65M	36.132M	40.9M	36.132M	40.7M	36.182M
5710MHz Straddle 5.47-5.725GHz_TnomVnom	Pass	Inf	35.035M	32.954M	35.42M	32.954M	35.385M	32.919M	35.175M	33.023M
5710MHz Straddle 5.725-5.85GHz_TnomVnom	Pass	500k	3.24M	3.658M	3.26M	3.598M	3.24M	3.738M	3.26M	3.638M
5755MHz_TnomVnom	Pass	500k	35.35M	36.382M	35.4M	36.332M	35.05M	36.182M	35.4M	36.532M
5795MHz_TnomVnom	Pass	500k	35.7M	36.582M	35.75M	36.782M	35.4M	36.482M	35.65M	39.33M
802.11ac VHT80-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5210MHz_TnomVnom	Pass	Inf	81.2M	75.862M	81.1M	75.962M	81.3M	75.762M	80.9M	75.762M
5290MHz_TnomVnom	Pass	Inf	81.1M	75.862M	80.8M	75.662M	81.3M	75.862M	81.1M	75.862M
5530MHz_TnomVnom	Pass	Inf	81.2M	75.762M	80.8M	75.962M	81M	75.962M	80.7M	75.762M
5610MHz_TnomVnom	Pass	Inf	81M	75.862M	81.1M	75.862M	81M	76.062M	81M	75.762M
5690MHz Straddle 5.47-5.725GHz_TnomVnom	Pass	Inf	75.6M	72.714M	75.375M	72.489M	75.525M	72.639M	75.375M	72.714M
5690MHz Straddle 5.725-5.85GHz_TnomVnom	Pass	500k	3.26M	3.558M	3.26M	3.618M	3.26M	3.698M	3.26M	3.778M
5775MHz_TnomVnom	Pass	500k	75.4M	75.762M	75.3M	75.862M	71.4M	76.062M	75M	75.862M
802.11ac VHT80+80-BF_Nss2,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-
#5210MHz,5290MHz_TnomVnom	Pass	Inf	80.7M	75.962M	81.1M	75.962M				
5210MHz,#5290MHz_TnomVnom	Pass	Inf					80.8M	75.962M	82.9M	75.862M
802.11ac VHT80+80-BF_Nss2,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
#5530MHz,#5610MHz_TnomVnom	Pass	Inf	80.7M	75.712M	79.65M	76.012M	135.75M	76.462M	81.3M	76.162M

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

Port X-OBW = Port **X** 99% occupied bandwidth;

802.11ac VHT20-BF_Nss1,(MCS0)_4TX EBW

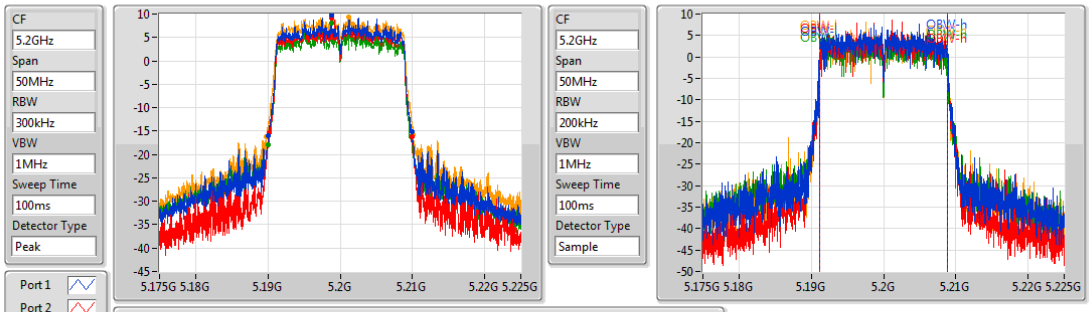
5180MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
19.7M	5.17015G	5.18985G	17.666M	5.171179G	5.188846G	Inf	1
19.85M	5.1701G	5.18995G	17.666M	5.171179G	5.188846G	Inf	2
19.975M	5.170025G	5.19G	17.691M	5.171179G	5.188871G	Inf	3
19.75M	5.17015G	5.1899G	17.616M	5.171204G	5.188821G	Inf	4

802.11ac VHT20-BF_Nss1,(MCS0)_4TX EBW

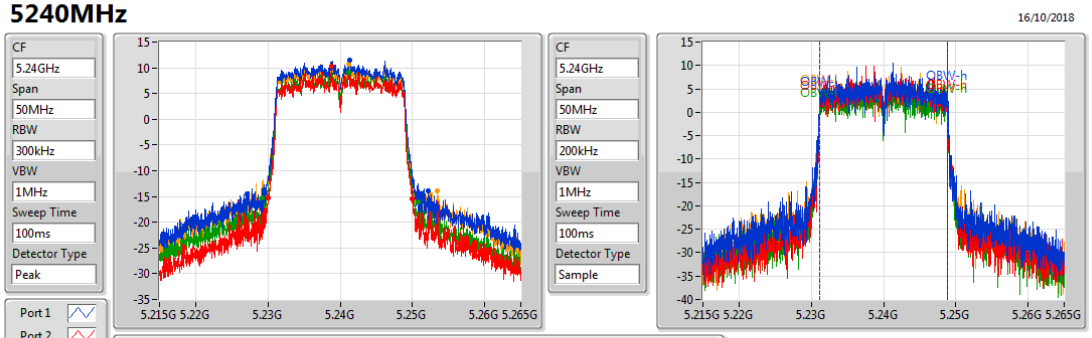
5200MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
19.925M	5.190025G	5.20995G	17.666M	5.191204G	5.208871G	Inf	1
19.75M	5.190175G	5.209925G	17.666M	5.191179G	5.208846G	Inf	2
19.9M	5.189975G	5.209875G	17.691M	5.191154G	5.208846G	Inf	3
20.3M	5.1898G	5.2101G	17.641M	5.191204G	5.208846G	Inf	4

802.11ac VHT20-BF_Nss1,(MCS0)_4TX EBW

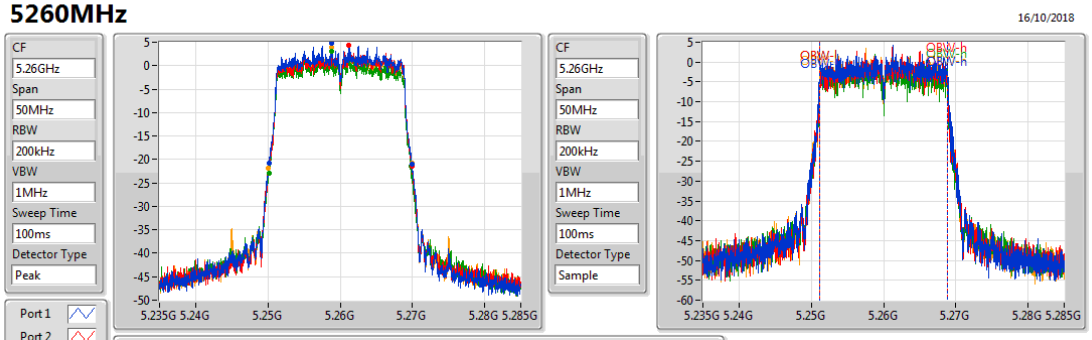
5240MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
25.025M	5.227125G	5.25215G	17.741M	5.231154G	5.248896G	Inf	1
19.975M	5.230025G	5.25G	17.641M	5.231204G	5.248846G	Inf	2
21.625M	5.229175G	5.2508G	17.691M	5.231154G	5.248846G	Inf	3
26.45M	5.22705G	5.2535G	17.691M	5.231179G	5.248871G	Inf	4

802.11ac VHT20-BF_Nss1,(MCS0)_4TX **EBW**

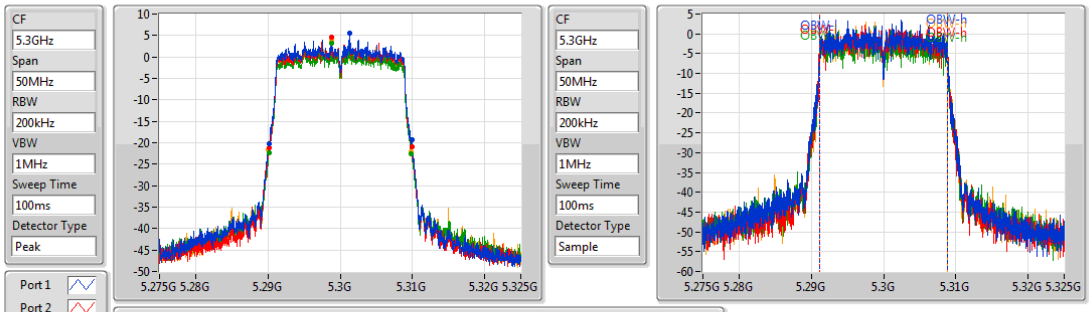
5260MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
19.825M	5.250125G	5.26995G	17.716M	5.251154G	5.268871G	Inf	1
19.8M	5.250175G	5.269975G	17.691M	5.251179G	5.268871G	Inf	2
19.7M	5.25015G	5.26985G	17.616M	5.251179G	5.268796G	Inf	3
19.825M	5.250075G	5.2699G	17.641M	5.251204G	5.268846G	Inf	4

802.11ac VHT20-BF_Nss1,(MCS0)_4TX **EBW**

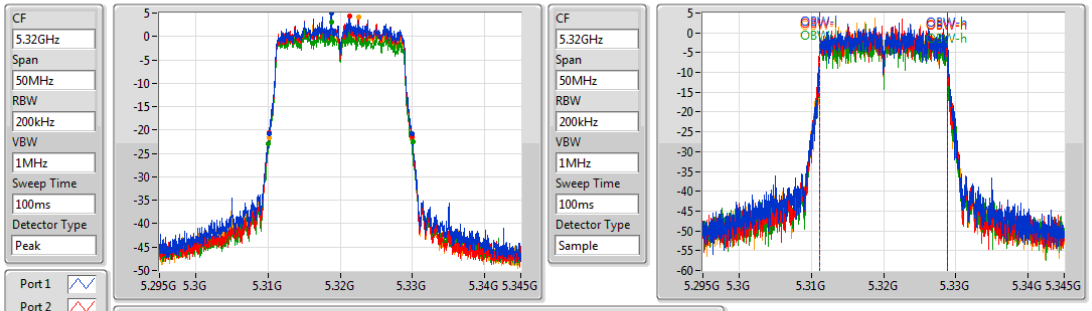
5300MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
19.825M	5.29015G	5.309975G	17.616M	5.291204G	5.308821G	Inf	1
19.8M	5.290175G	5.309975G	17.641M	5.291204G	5.308846G	Inf	2
19.75M	5.290125G	5.309875G	17.666M	5.291179G	5.308846G	Inf	3
19.8M	5.290075G	5.309875G	17.641M	5.291204G	5.308846G	Inf	4

802.11ac VHT20-BF_Nss1,(MCS0)_4TX **EBW**

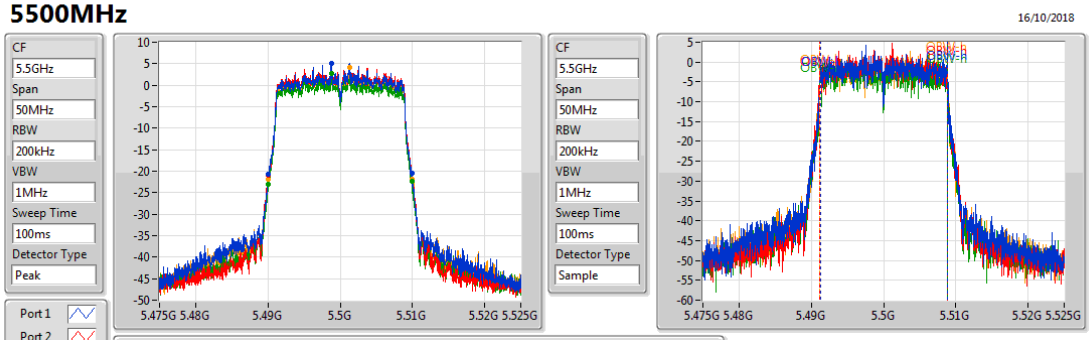
5320MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
19.8M	5.310125G	5.329925G	17.691M	5.311204G	5.328896G	Inf	1
19.8M	5.310175G	5.329975G	17.666M	5.311179G	5.328846G	Inf	2
19.975M	5.3101G	5.330075G	17.691M	5.311154G	5.328846G	Inf	3
19.775M	5.310125G	5.3299G	17.641M	5.311179G	5.328821G	Inf	4

802.11ac VHT20-BF_Nss1,(MCS0)_4TX **EBW**

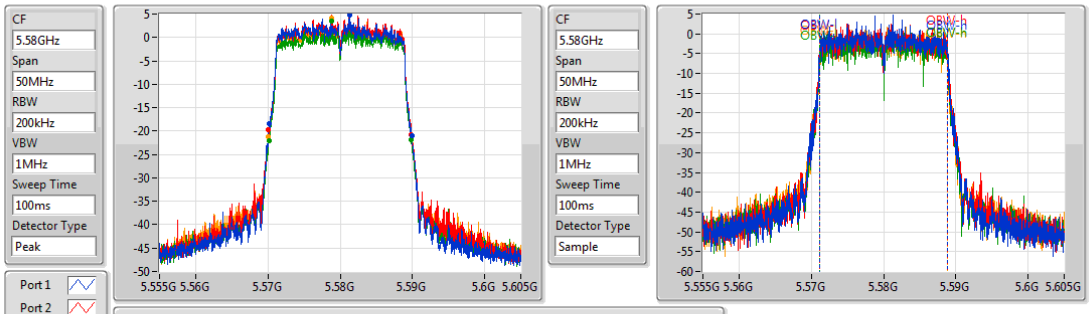
5500MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
19.825M	5.4901G	5.509925G	17.591M	5.491229G	5.508821G	Inf	1
19.875M	5.4901G	5.509975G	17.591M	5.491204G	5.508796G	Inf	2
19.875M	5.490075G	5.50995G	17.691M	5.491179G	5.508871G	Inf	3
19.95M	5.490025G	5.509975G	17.641M	5.491204G	5.508846G	Inf	4

802.11ac VHT20-BF_Nss1,(MCS0)_4TX **EBW**

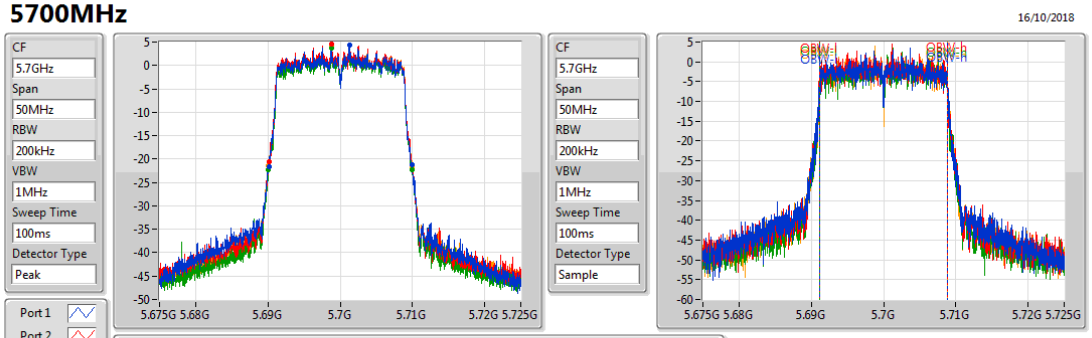
5580MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
19.8M	5.570125G	5.589925G	17.641M	5.571204G	5.588846G	Inf	1
19.8M	5.570075G	5.589875G	17.666M	5.571154G	5.588821G	Inf	2
19.75M	5.570125G	5.589875G	17.641M	5.571204G	5.588846G	Inf	3
19.875M	5.5701G	5.589975G	17.641M	5.571204G	5.588846G	Inf	4

802.11ac VHT20-BF_Nss1,(MCS0)_4TX **EBW**

5700MHz

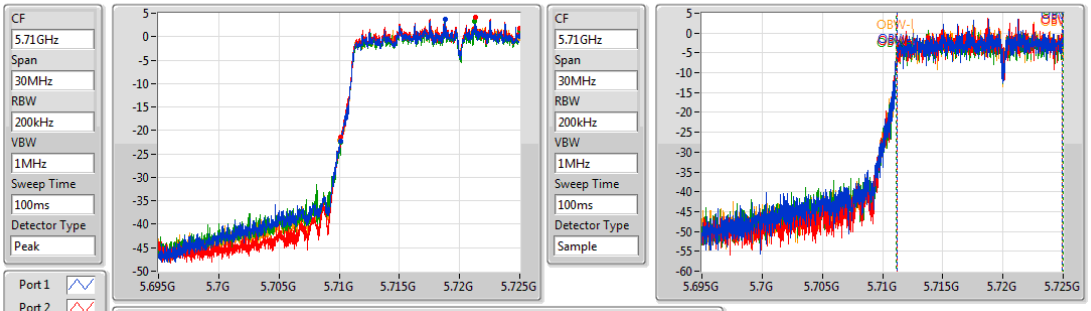


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
19.8M	5.690125G	5.709925G	17.641M	5.691179G	5.708821G	Inf	1
19.775M	5.690175G	5.70995G	17.666M	5.691179G	5.708846G	Inf	2
19.85M	5.6901G	5.70995G	17.666M	5.691204G	5.708871G	Inf	3
19.95M	5.690025G	5.709975G	17.666M	5.691179G	5.708846G	Inf	4

802.11ac VHT20-BF_Nss1,(MCS0)_4TX **EBW**

5720MHz Straddle 5.47-5.725GHz

16/10/2018

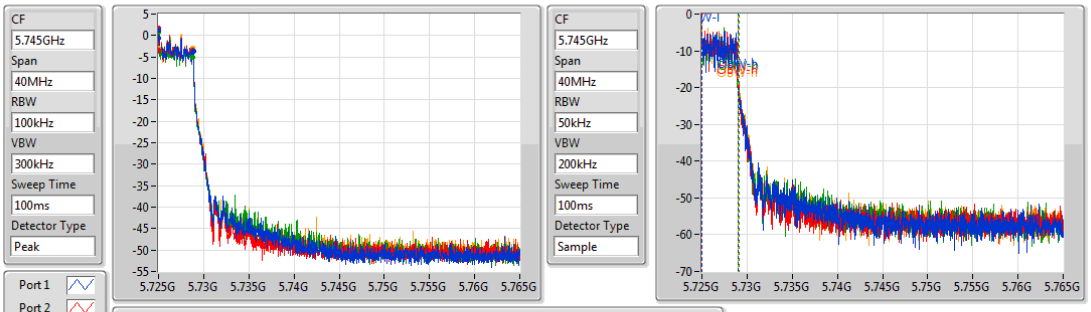


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
14.91M	5.71009G	5.725G	13.763M	5.711184G	5.724948G	Inf	1
14.865M	5.710135G	5.725G	13.748M	5.711184G	5.724933G	Inf	2
14.88M	5.71012G	5.725G	13.793M	5.711169G	5.724963G	Inf	3
14.94M	5.71006G	5.725G	13.763M	5.711169G	5.724933G	Inf	4

802.11ac VHT20-BF_Nss1,(MCS0)_4TX **EBW**

5720MHz Straddle 5.725-5.85GHz

16/10/2018

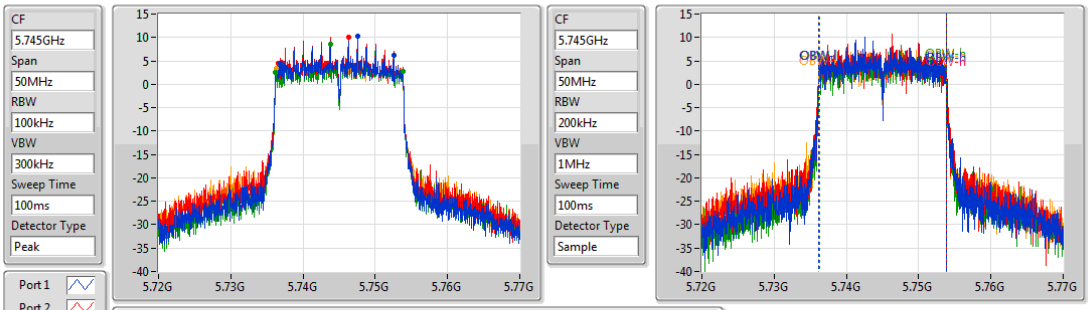


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
3.86M	5.725G	5.72886G	3.978M	5.72501G	5.728988G	500k	1
3.84M	5.725G	5.72884G	3.998M	5.72501G	5.729008G	500k	2
3.84M	5.725G	5.72884G	4.078M	5.72503G	5.729108G	500k	3
3.82M	5.725G	5.72882G	4.038M	5.72501G	5.729048G	500k	4

802.11ac VHT20-BF_Nss1,(MCS0)_4TX **EBW**

5745MHz

16/10/2018

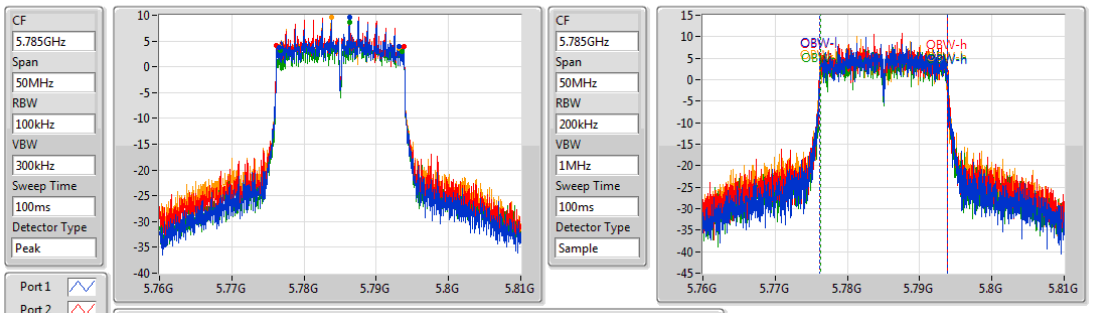


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
15.675M	5.736875G	5.75255G	17.666M	5.736154G	5.753821G	500k	1
15.95M	5.736625G	5.752575G	17.716M	5.736129G	5.753846G	500k	2
17.6M	5.736225G	5.753825G	17.616M	5.736229G	5.753846G	500k	3
17.575M	5.73625G	5.753825G	17.766M	5.736129G	5.753896G	500k	4

802.11ac VHT20-BF_Nss1,(MCS0)_4TX **EBW**

5785MHz

16/10/2018

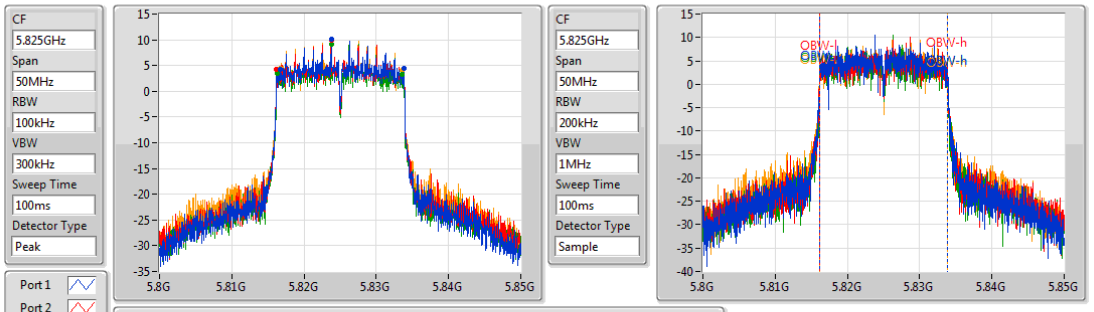


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.55M	5.776625G	5.793175G	17.666M	5.776179G	5.793846G	500k	1
17.625M	5.7762G	5.793825G	17.716M	5.776154G	5.793871G	500k	2
16.875M	5.77665G	5.793525G	17.641M	5.776229G	5.793871G	500k	3
16.55M	5.776625G	5.793175G	17.741M	5.776154G	5.793896G	500k	4

802.11ac VHT20-BF_Nss1,(MCS0)_4TX **EBW**

5825MHz

16/10/2018

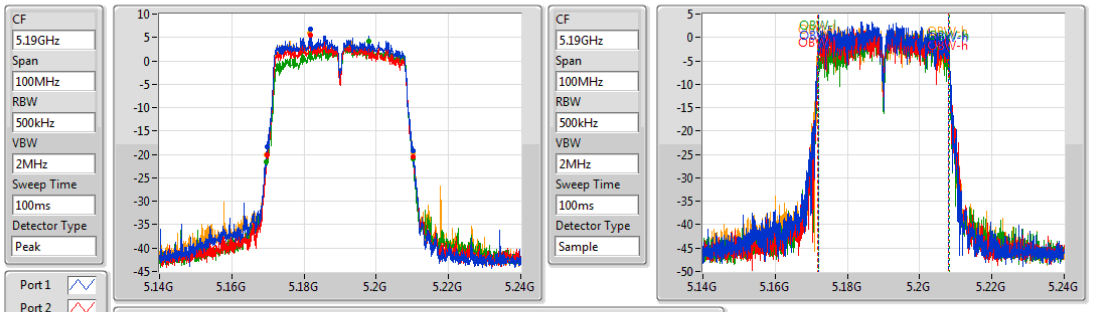


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
17.2M	5.81665G	5.83385G	17.716M	5.816179G	5.833896G	500k	1
17.625M	5.816225G	5.83385G	17.691M	5.816179G	5.833871G	500k	2
17.25M	5.81625G	5.8335G	17.691M	5.816204G	5.833896G	500k	3
16.85M	5.81665G	5.8335G	17.766M	5.816129G	5.833896G	500k	4

802.11ac VHT40-BF_Nss1,(MCS0)_4TX **EBW**

5190MHz

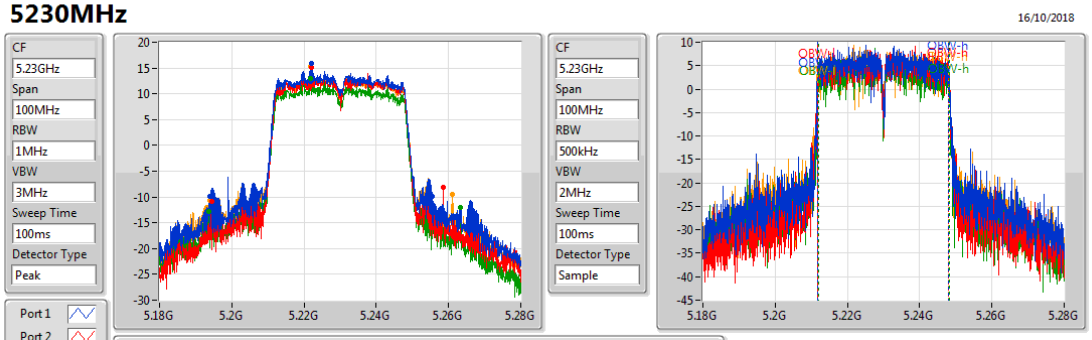
16/10/2018



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
40.45M	5.16975G	5.2102G	36.182M	5.171909G	5.208091G	Inf	1
40.35M	5.1699G	5.21025G	36.232M	5.171809G	5.208041G	Inf	2
40.6M	5.1696G	5.2102G	36.182M	5.171959G	5.208141G	Inf	3
40.5M	5.16965G	5.21015G	36.282M	5.171809G	5.208091G	Inf	4

802.11ac VHT40-BF_Nss1,(MCS0)_4TX **EBW**

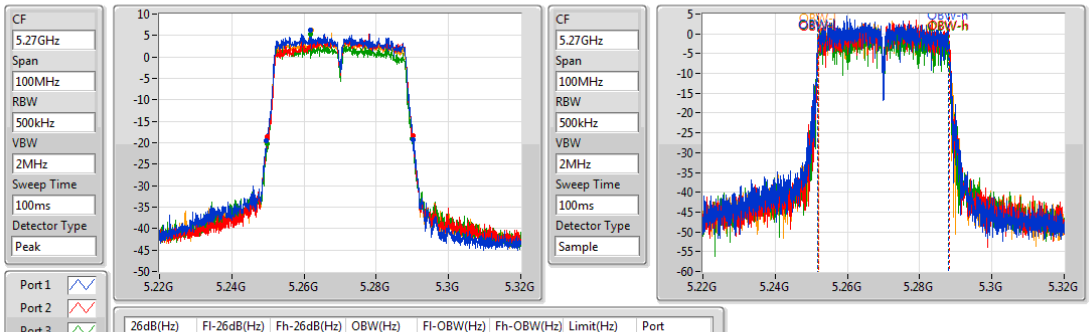
5230MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
61.55M	5.19395G	5.2555G	36.282M	5.211809G	5.248091G	Inf	1
64.05M	5.1945G	5.25855G	36.232M	5.211859G	5.248091G	Inf	2
69.6M	5.19375G	5.26335G	36.232M	5.211909G	5.248141G	Inf	3
67.05M	5.1939G	5.26095G	36.332M	5.211759G	5.248091G	Inf	4

802.11ac VHT40-BF_Nss1,(MCS0)_4TX **EBW**

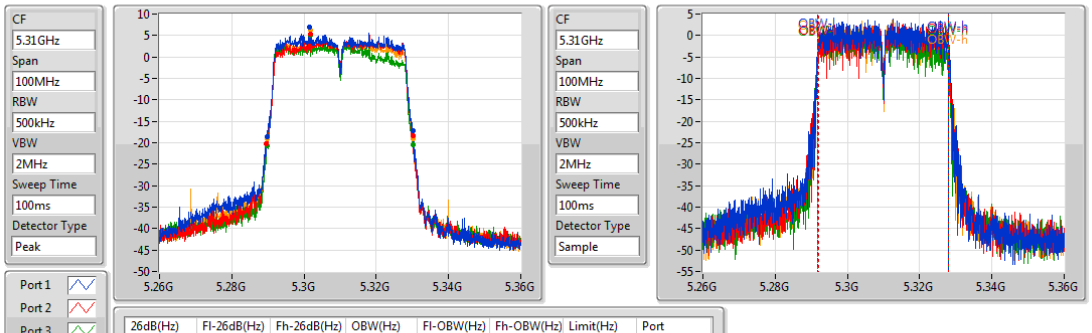
5270MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
40.6M	5.2496G	5.2902G	36.232M	5.251859G	5.288091G	Inf	1
40.35M	5.24985G	5.2902G	36.232M	5.251909G	5.288141G	Inf	2
40.3M	5.24975G	5.29005G	36.232M	5.251859G	5.288091G	Inf	3
40.65M	5.24965G	5.2903G	36.182M	5.251909G	5.288091G	Inf	4

802.11ac VHT40-BF_Nss1,(MCS0)_4TX **EBW**

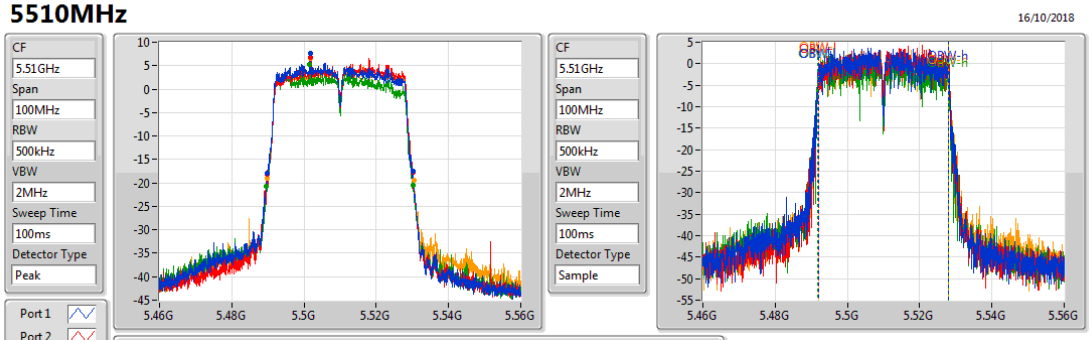
5310MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
40.4M	5.28975G	5.33015G	36.232M	5.291859G	5.328091G	Inf	1
40.6M	5.28955G	5.33015G	36.132M	5.291959G	5.328091G	Inf	2
40.45M	5.2897G	5.33015G	36.232M	5.291759G	5.327991G	Inf	3
40.45M	5.28975G	5.3302G	36.182M	5.291859G	5.328041G	Inf	4

802.11ac VHT40-BF_Nss1,(MCS0)_4TX **EBW**

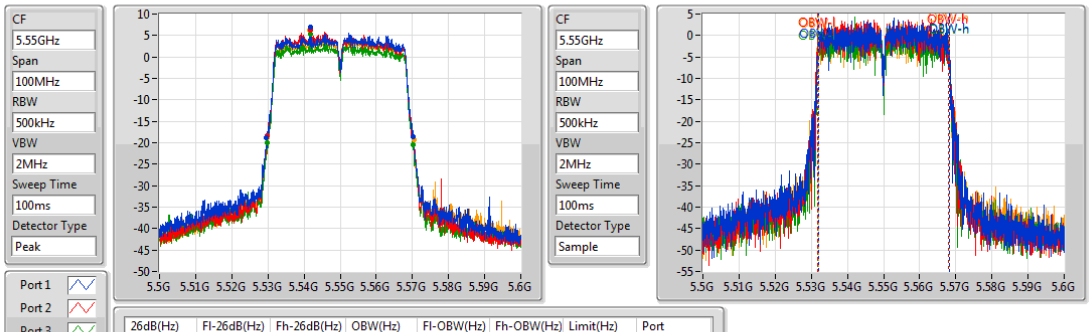
5510MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
40.3M	5.48985G	5.53015G	36.082M	5.491909G	5.527991G	Inf	1
40.35M	5.4898G	5.53015G	36.082M	5.492009G	5.528091G	Inf	2
40.6M	5.48965G	5.53025G	36.182M	5.491809G	5.527991G	Inf	3
40.55M	5.4898G	5.53035G	36.132M	5.491909G	5.528041G	Inf	4

802.11ac VHT40-BF_Nss1,(MCS0)_4TX **EBW**

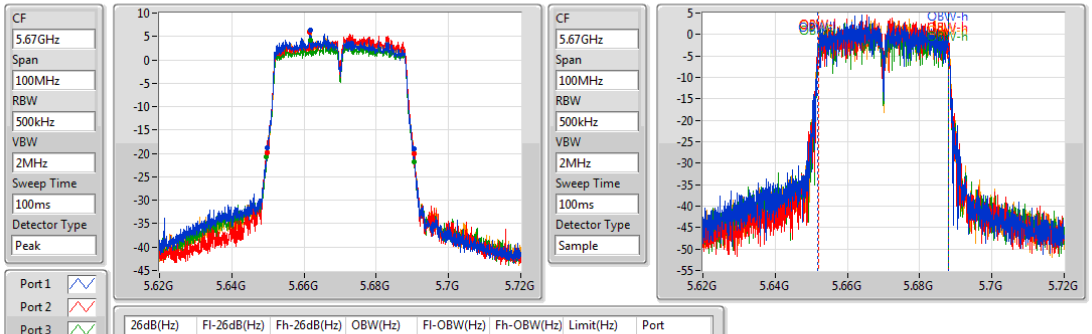
5550MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
40.65M	5.52965G	5.5703G	36.232M	5.531909G	5.568141G	Inf	1
40.55M	5.5297G	5.57025G	36.282M	5.531809G	5.568091G	Inf	2
40.5M	5.5298G	5.5703G	36.282M	5.531859G	5.568141G	Inf	3
40.65M	5.52975G	5.5704G	36.232M	5.531909G	5.568141G	Inf	4

802.11ac VHT40-BF_Nss1,(MCS0)_4TX **EBW**

5670MHz

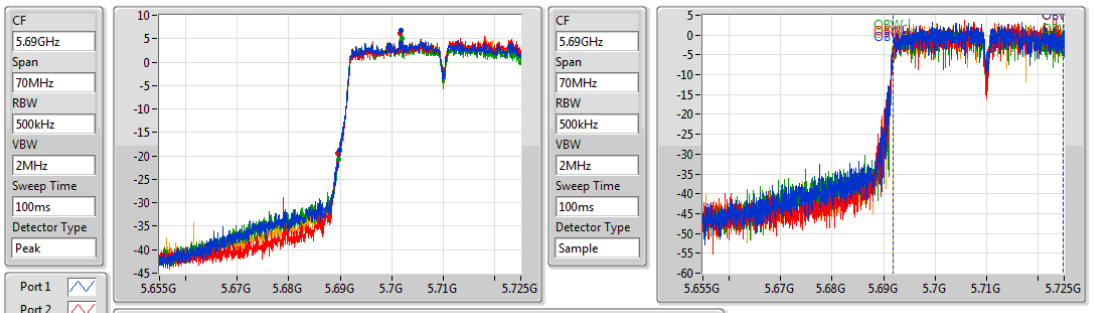


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
40.5M	5.64985G	5.69035G	36.182M	5.651859G	5.688041G	Inf	1
40.65M	5.6497G	5.69035G	36.132M	5.651959G	5.688091G	Inf	2
40.9M	5.6496G	5.6905G	36.132M	5.651959G	5.688091G	Inf	3
40.7M	5.64975G	5.69045G	36.182M	5.651909G	5.688091G	Inf	4

802.11ac VHT40-BF_Nss1,(MCS0)_4TX **EBW**

5710MHz Straddle 5.47-5.725GHz

16/10/2018

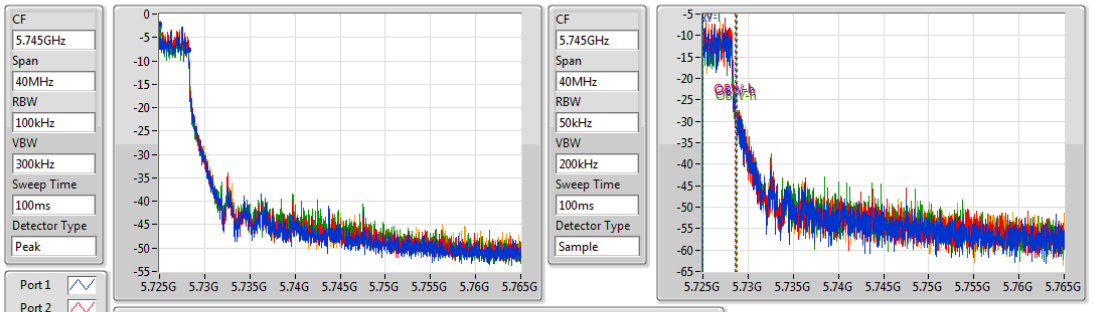


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
35.035M	5.689965G	5.725G	32.954M	5.691889G	5.724843G	Inf	1
35.42M	5.68958G	5.725G	32.954M	5.691889G	5.724843G	Inf	2
35.385M	5.689615G	5.725G	32.919M	5.691854G	5.724773G	Inf	3
35.175M	5.689825G	5.725G	33.023M	5.691819G	5.724843G	Inf	4

802.11ac VHT40-BF_Nss1,(MCS0)_4TX **EBW**

5710MHz Straddle 5.725-5.85GHz

16/10/2018

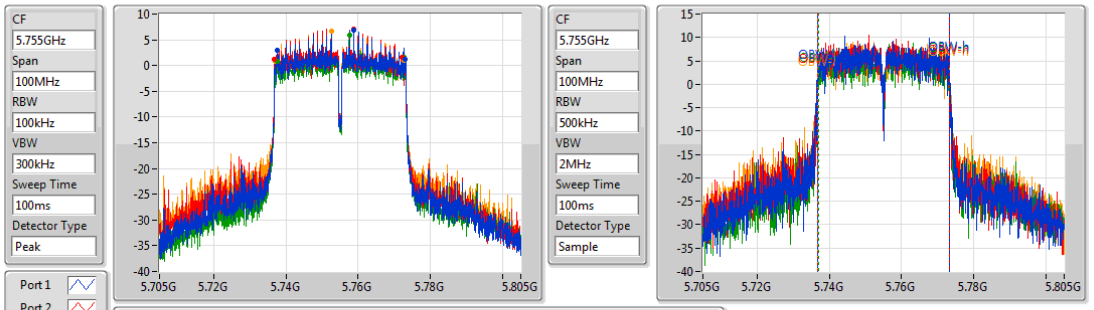


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
3.24M	5.725G	5.72824G	3.658M	5.72501G	5.728668G	500k	1
3.26M	5.725G	5.72826G	3.598M	5.72501G	5.728608G	500k	2
3.24M	5.725G	5.72824G	3.738M	5.72501G	5.728748G	500k	3
3.26M	5.725G	5.72826G	3.638M	5.72501G	5.728648G	500k	4

802.11ac VHT40-BF_Nss1,(MCS0)_4TX **EBW**

5755MHz

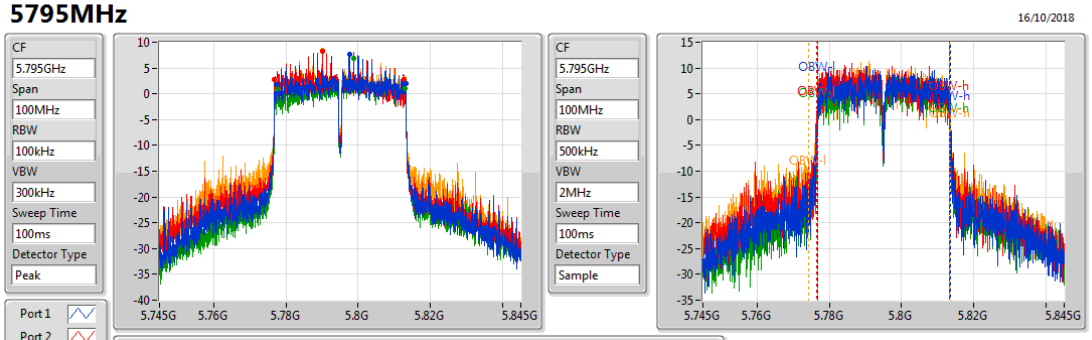
16/10/2018



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
35.35M	5.7375G	5.77285G	36.382M	5.736809G	5.773191G	500k	1
35.4M	5.73685G	5.77225G	36.332M	5.736809G	5.773141G	500k	2
35.05M	5.73755G	5.7726G	36.182M	5.736959G	5.773141G	500k	3
35.4M	5.73715G	5.77255G	36.532M	5.736709G	5.773241G	500k	4

802.11ac VHT40-BF_Nss1,(MCS0)_4TX **EBW**

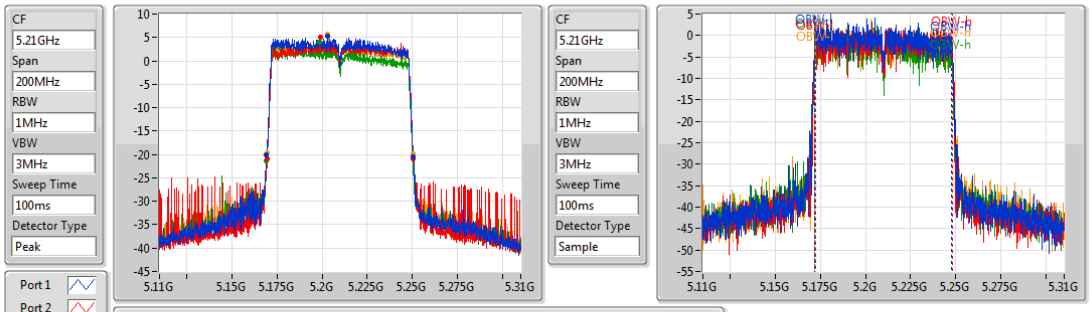
5795MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
35.7M	5.77745G	5.81315G	36.582M	5.776809G	5.813391G	500k	1
35.75M	5.77685G	5.8126G	36.782M	5.776409G	5.813191G	500k	2
35.4M	5.7775G	5.8129G	36.482M	5.776859G	5.813341G	500k	3
35.65M	5.7769G	5.81255G	39.33M	5.77416G	5.813491G	500k	4

802.11ac VHT80-BF_Nss1,(MCS0)_4TX **EBW**

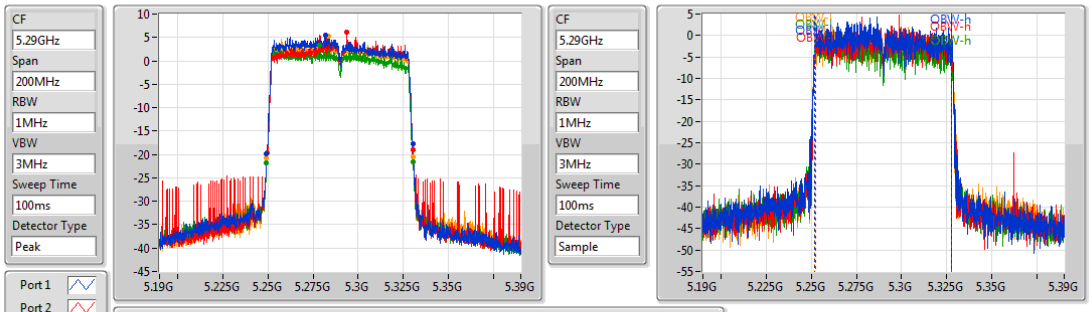
5210MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
81.2M	5.1693G	5.2505G	75.862M	5.171919G	5.247781G	Inf	1
81.1M	5.1695G	5.2506G	75.962M	5.172119G	5.248081G	Inf	2
81.3M	5.1689G	5.2502G	75.762M	5.172019G	5.247781G	Inf	3
80.9M	5.1694G	5.2503G	75.762M	5.172119G	5.247881G	Inf	4

802.11ac VHT80-BF_Nss1,(MCS0)_4TX **EBW**

5290MHz

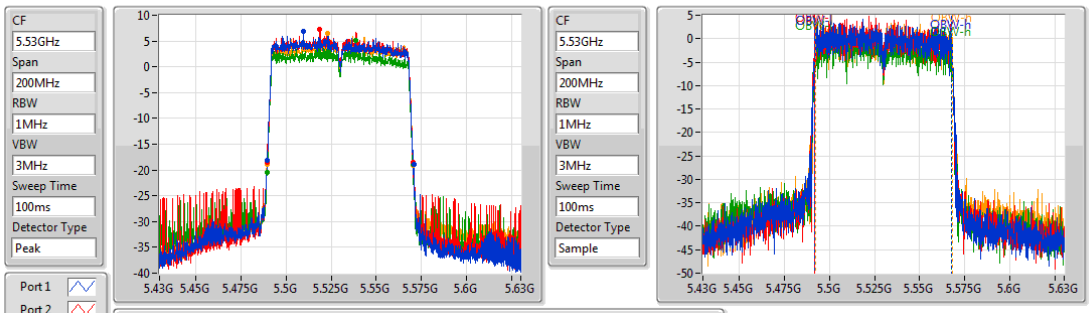


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
81.1M	5.2493G	5.3304G	75.862M	5.252019G	5.327881G	Inf	1
80.8M	5.2494G	5.3302G	75.662M	5.252119G	5.327781G	Inf	2
81.3M	5.2493G	5.3306G	75.862M	5.251819G	5.327681G	Inf	3
81.1M	5.2493G	5.3304G	75.862M	5.251919G	5.327781G	Inf	4

802.11ac VHT80-BF_Nss1,(MCS0)_4TX **EBW**

5530MHz

16/10/2018

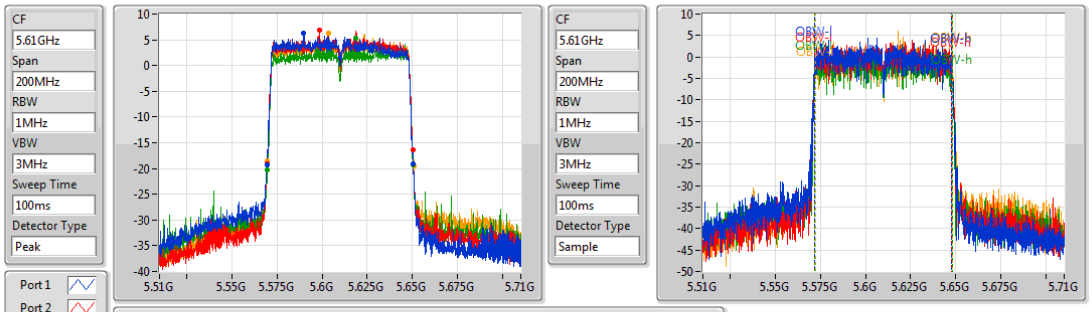


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
81.2M	5.4895G	5.5707G	75.762M	5.492019G	5.567781G	Inf	1
80.8M	5.4895G	5.5703G	75.962M	5.491819G	5.567781G	Inf	2
81M	5.4894G	5.5704G	75.962M	5.491919G	5.567881G	Inf	3
80.7M	5.4897G	5.5704G	75.762M	5.492219G	5.567981G	Inf	4

802.11ac VHT80-BF_Nss1,(MCS0)_4TX **EBW**

5610MHz

16/10/2018

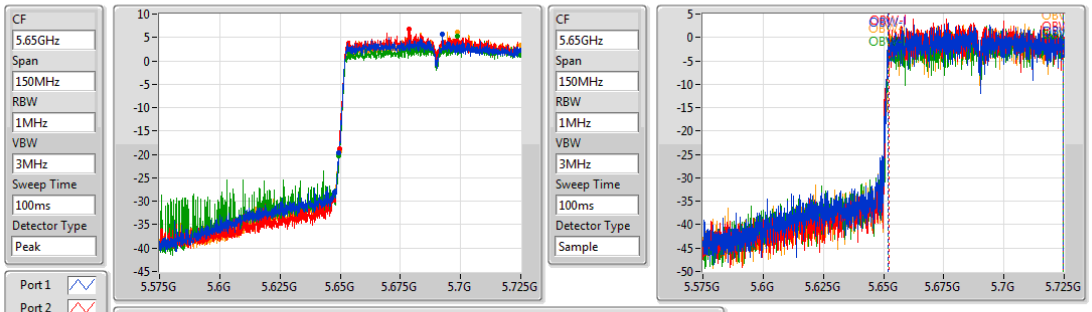


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
81M	5.5694G	5.6504G	75.862M	5.571919G	5.647781G	Inf	1
81.1M	5.5694G	5.6505G	75.862M	5.572019G	5.647881G	Inf	2
81M	5.5696G	5.6506G	76.062M	5.571919G	5.647981G	Inf	3
81M	5.5697G	5.6507G	75.762M	5.572219G	5.647981G	Inf	4

802.11ac VHT80-BF_Nss1,(MCS0)_4TX **EBW**

5690MHz Straddle 5.47-5.725GHz

16/10/2018

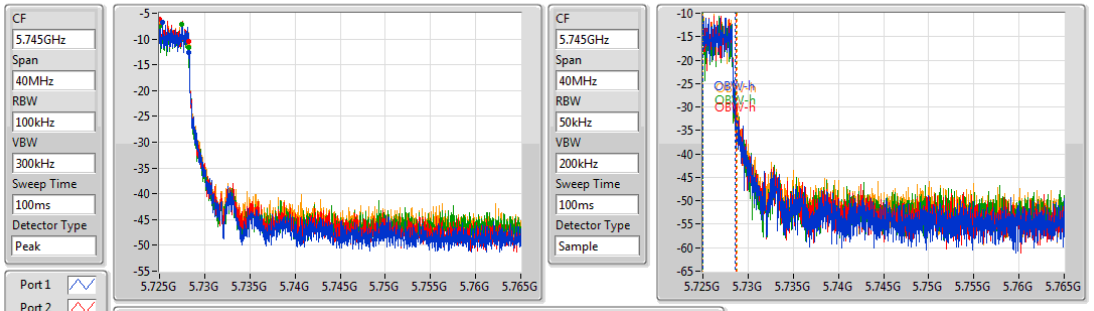


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
75.6M	5.6494G	5.725G	72.714M	5.651874G	5.724588G	Inf	1
75.375M	5.649625G	5.725G	72.489M	5.652099G	5.724588G	Inf	2
75.525M	5.649475G	5.725G	72.639M	5.651949G	5.724588G	Inf	3
75.375M	5.649625G	5.725G	72.714M	5.652024G	5.724738G	Inf	4

802.11ac VHT80-BF_Nss1,(MCS0)_4TX **EBW**

5690MHz Straddle 5.725-5.85GHz

16/10/2018

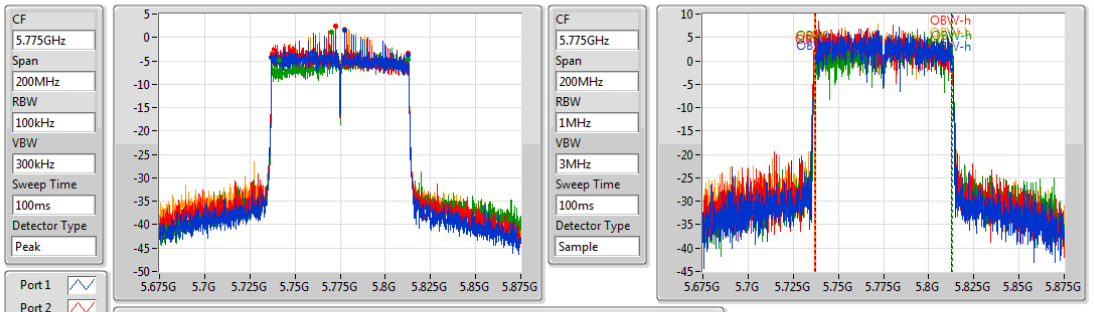


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
3.26M	5.725G	5.72826G	3.558M	5.72501G	5.728568G	500k	1
3.26M	5.725G	5.72826G	3.618M	5.72501G	5.728628G	500k	2
3.26M	5.725G	5.72826G	3.698M	5.72501G	5.728708G	500k	3
3.26M	5.725G	5.72826G	3.778M	5.72501G	5.728788G	500k	4

802.11ac VHT80-BF_Nss1,(MCS0)_4TX **EBW**

5775MHz

16/10/2018

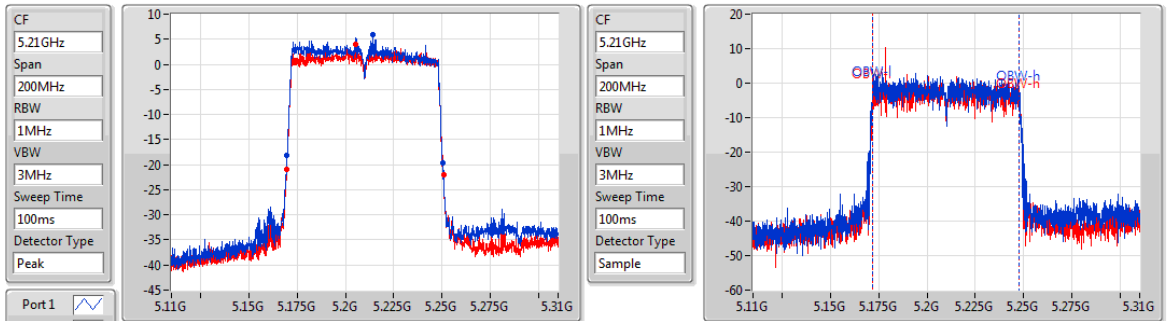


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
75.4M	5.7371G	5.8125G	75.762M	5.737119G	5.812881G	500k	1
75.3M	5.7373G	5.8126G	75.862M	5.736819G	5.812681G	500k	2
71.4M	5.7413G	5.8127G	76.062M	5.737119G	5.813181G	500k	3
75M	5.7375G	5.8125G	75.862M	5.736919G	5.812781G	500k	4

802.11ac VHT80+80-BF_Nss2,(MCS0)_2TX **EBW**

#5210MHz,5290MHz

16/10/2018

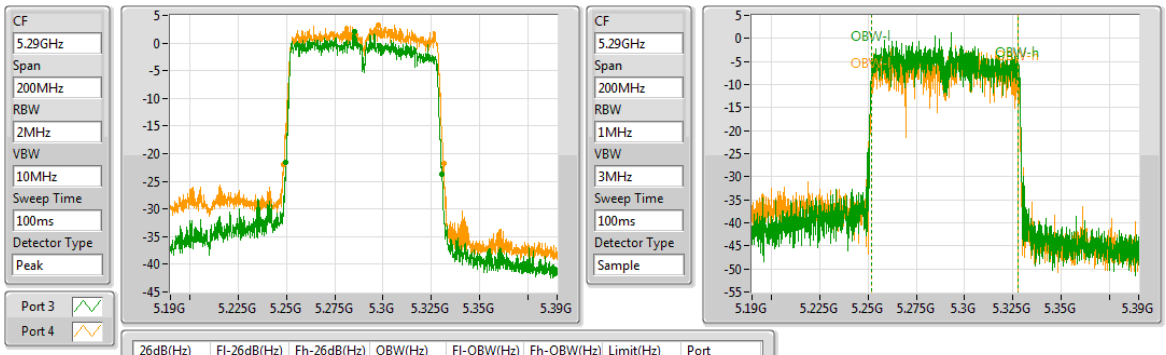


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
80.7M	5.1696G	5.2503G	75.962M	5.171819G	5.247781G	Inf	1
81.1M	5.1696G	5.2507G	75.962M	5.171919G	5.247881G	Inf	2

802.11ac VHT80+80-BF_Nss2,(MCS0)_2TX EBW

5210MHz,#5290MHz

16/10/2018

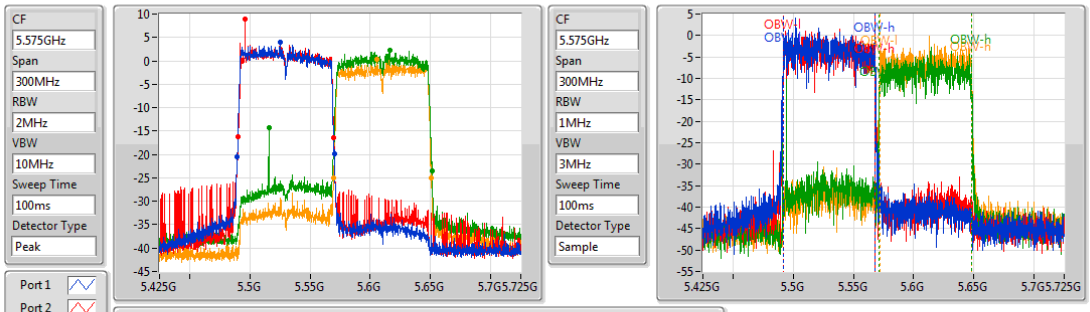


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
80.8M	5.2496G	5.3304G	75.962M	5.251919G	5.327881G	Inf	3
82.9M	5.2485G	5.3314G	75.862M	5.252019G	5.327881G	Inf	4

802.11ac VHT80+80-BF_Nss2,(MCS0)_4TX EBW

#5530MHz,#5610MHz

16/10/2018



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
80.7M	5.48965G	5.57035G	75.712M	5.491942G	5.567654G	Inf	1
79.65M	5.4901G	5.56975G	76.012M	5.491942G	5.567954G	Inf	2
135.75M	5.51575G	5.6515G	76.462M	5.571552G	5.648013G	Inf	3
81.3M	5.56945G	5.65075G	76.162M	5.571852G	5.648013G	Inf	4

Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.15-5.25GHz	-	-	-	-	-
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	20M	17.691M	17M7D1D	19.725M	17.616M
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	40.7M	36.232M	36M2D1D	40.25M	36.082M
802.11ac VHT80-BF_Nss1,(MCS0)_4TX	81.4M	75.862M	75M9D1D	80.9M	75.662M
802.11ac VHT80+80-BF_Nss2,(MCS0)_2TX	81.1M	76.162M	76M2D1D	80.8M	75.762M
5.25-5.35GHz	-	-	-	-	-
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	19.975M	17.716M	17M7D1D	19.7M	17.616M
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	40.65M	36.232M	36M2D1D	40.3M	36.132M
802.11ac VHT80-BF_Nss1,(MCS0)_4TX	81.3M	75.862M	75M9D1D	80.8M	75.662M
802.11ac VHT80+80-BF_Nss2,(MCS0)_2TX	82.6M	76.062M	76M1D1D	81M	75.662M
5.47-5.725GHz	-	-	-	-	-
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	19.95M	17.691M	17M7D1D	14.865M	13.748M
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	40.9M	36.282M	36M3D1D	35.035M	32.919M
802.11ac VHT80-BF_Nss1,(MCS0)_4TX	81.2M	76.062M	76M1D1D	75.375M	72.489M
802.11ac VHT80+80-BF_Nss2,(MCS0)_4TX	135.75M	76.462M	76M5D1D	79.65M	75.712M
5.725-5.85GHz	-	-	-	-	-
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	17.625M	17.766M	17M8D1D	3.82M	3.978M
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	35.75M	39.33M	39M3D1D	3.24M	3.598M
802.11ac VHT80-BF_Nss1,(MCS0)_4TX	75.4M	76.062M	76M1D1D	3.26M	3.558M

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

Result

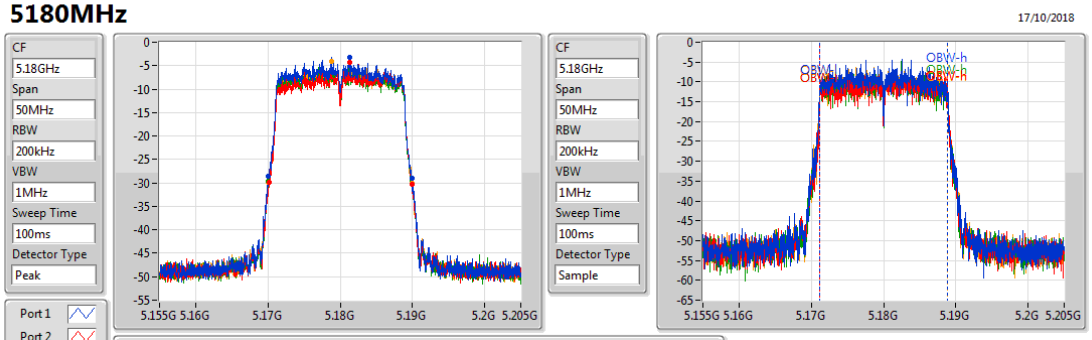
Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)	Port 3-N dB (Hz)	Port 3-OBW (Hz)	Port 4-N dB (Hz)	Port 4-OBW (Hz)
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz_TnomVnom	Pass	Inf	19.825M	17.616M	19.725M	17.641M	19.925M	17.616M	19.825M	17.616M
5200MHz_TnomVnom	Pass	Inf	19.9M	17.666M	19.825M	17.641M	19.75M	17.641M	19.925M	17.641M
5240MHz_TnomVnom	Pass	Inf	19.875M	17.666M	19.75M	17.641M	20M	17.616M	19.775M	17.691M
5260MHz_TnomVnom	Pass	Inf	19.825M	17.716M	19.8M	17.691M	19.7M	17.616M	19.825M	17.641M
5300MHz_TnomVnom	Pass	Inf	19.825M	17.616M	19.8M	17.641M	19.75M	17.666M	19.8M	17.641M
5320MHz_TnomVnom	Pass	Inf	19.8M	17.691M	19.8M	17.666M	19.975M	17.691M	19.775M	17.641M
5500MHz_TnomVnom	Pass	Inf	19.825M	17.591M	19.875M	17.591M	19.875M	17.691M	19.95M	17.641M
5580MHz_TnomVnom	Pass	Inf	19.8M	17.641M	19.8M	17.666M	19.75M	17.641M	19.875M	17.641M
5700MHz_TnomVnom	Pass	Inf	19.8M	17.641M	19.775M	17.666M	19.85M	17.666M	19.95M	17.666M
5720MHz Straddle 5.47-5.725GHz_TnomVnom	Pass	Inf	14.91M	13.763M	14.865M	13.748M	14.88M	13.793M	14.94M	13.763M
5720MHz Straddle 5.725-5.85GHz_TnomVnom	Pass	500k	3.86M	3.978M	3.84M	3.998M	3.84M	4.078M	3.82M	4.038M
5745MHz_TnomVnom	Pass	500k	15.675M	17.666M	15.95M	17.716M	17.6M	17.616M	17.575M	17.766M
5785MHz_TnomVnom	Pass	500k	16.55M	17.666M	17.625M	17.716M	16.875M	17.641M	16.55M	17.741M
5825MHz_TnomVnom	Pass	500k	17.2M	17.716M	17.625M	17.691M	17.25M	17.691M	16.85M	17.766M
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5190MHz_TnomVnom	Pass	Inf	40.25M	36.182M	40.5M	36.182M	40.35M	36.232M	40.55M	36.082M
5230MHz_TnomVnom	Pass	Inf	40.55M	36.182M	40.7M	36.082M	40.5M	36.232M	40.45M	36.132M
5270MHz_TnomVnom	Pass	Inf	40.6M	36.232M	40.35M	36.232M	40.3M	36.232M	40.65M	36.182M
5310MHz_TnomVnom	Pass	Inf	40.4M	36.232M	40.6M	36.132M	40.45M	36.232M	40.45M	36.182M
5510MHz_TnomVnom	Pass	Inf	40.3M	36.082M	40.35M	36.082M	40.6M	36.182M	40.55M	36.132M
5550MHz_TnomVnom	Pass	Inf	40.65M	36.232M	40.55M	36.282M	40.5M	36.282M	40.65M	36.232M
5670MHz_TnomVnom	Pass	Inf	40.5M	36.182M	40.65M	36.132M	40.9M	36.132M	40.7M	36.182M
5710MHz Straddle 5.47-5.725GHz_TnomVnom	Pass	Inf	35.035M	32.954M	35.42M	32.954M	35.385M	32.919M	35.175M	33.023M
5710MHz Straddle 5.725-5.85GHz_TnomVnom	Pass	500k	3.24M	3.658M	3.26M	3.598M	3.24M	3.738M	3.26M	3.638M
5755MHz_TnomVnom	Pass	500k	35.35M	36.382M	35.4M	36.332M	35.05M	36.182M	35.4M	36.532M
5795MHz_TnomVnom	Pass	500k	35.7M	36.582M	35.75M	36.782M	35.4M	36.482M	35.65M	39.33M
802.11ac VHT80-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5210MHz_TnomVnom	Pass	Inf	81.4M	75.862M	81.3M	75.662M	81.1M	75.662M	80.9M	75.862M
#5210MHz,5290MHz_TnomVnom										
5290MHz_TnomVnom	Pass	Inf	81.1M	75.862M	80.8M	75.662M	81.3M	75.862M	81.1M	75.862M
5530MHz_TnomVnom	Pass	Inf	81.2M	75.762M	80.8M	75.962M	81M	75.962M	80.7M	75.762M
5610MHz_TnomVnom	Pass	Inf	81M	75.862M	81.1M	75.862M	81M	76.062M	81M	75.762M
5690MHz Straddle 5.47-5.725GHz_TnomVnom	Pass	Inf	75.6M	72.714M	75.375M	72.489M	75.525M	72.639M	75.375M	72.714M
5690MHz Straddle 5.725-5.85GHz_TnomVnom	Pass	500k	3.26M	3.558M	3.26M	3.618M	3.26M	3.698M	3.26M	3.778M
5775MHz_TnomVnom	Pass	500k	75.4M	75.762M	75.3M	75.862M	71.4M	76.062M	75M	75.862M
802.11ac VHT80+80-BF_Nss2,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-
#5210MHz,5290MHz_TnomVnom	Pass	Inf	80.8M	76.162M	81.1M	75.762M				
5210MHz,#5290MHz_TnomVnom	Pass	Inf					81M	75.662M	82.6M	76.062M
802.11ac VHT80+80-BF_Nss2,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)	Port 3-N dB (Hz)	Port 3-OBW (Hz)	Port 4-N dB (Hz)	Port 4-OBW (Hz)
#5530MHz,#5610MHz_TnomVnom	Pass	Inf	80.7M	75.712M	79.65M	76.012M	135.75M	76.462M	81.3M	76.162M

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

802.11ac VHT20-BF_Nss1,(MCS0)_4TX EBW

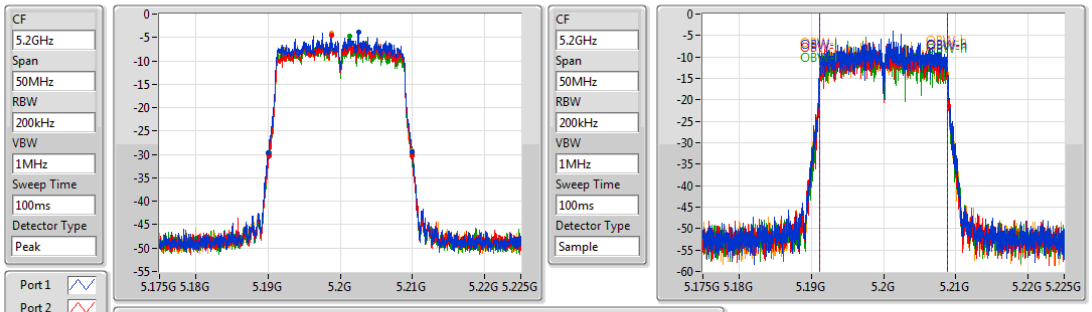
5180MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
19.825M	5.1701G	5.189925G	17.616M	5.171179G	5.188796G	Inf	1
19.725M	5.170175G	5.1899G	17.641M	5.171204G	5.188846G	Inf	2
19.925M	5.170075G	5.19G	17.616M	5.171204G	5.188821G	Inf	3
19.825M	5.1701G	5.189925G	17.616M	5.171204G	5.188821G	Inf	4

802.11ac VHT20-BF_Nss1,(MCS0)_4TX EBW

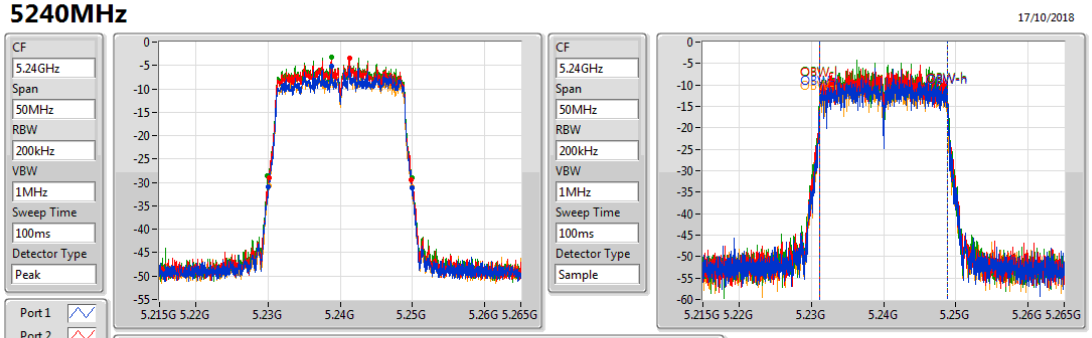
5200MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
19.9M	5.19005G	5.20995G	17.666M	5.191179G	5.208846G	Inf	1
19.825M	5.190125G	5.20995G	17.641M	5.191204G	5.208846G	Inf	2
19.75M	5.190175G	5.209925G	17.641M	5.191179G	5.208821G	Inf	3
19.925M	5.19005G	5.209975G	17.641M	5.191204G	5.208846G	Inf	4

802.11ac VHT20-BF_Nss1,(MCS0)_4TX EBW

5240MHz

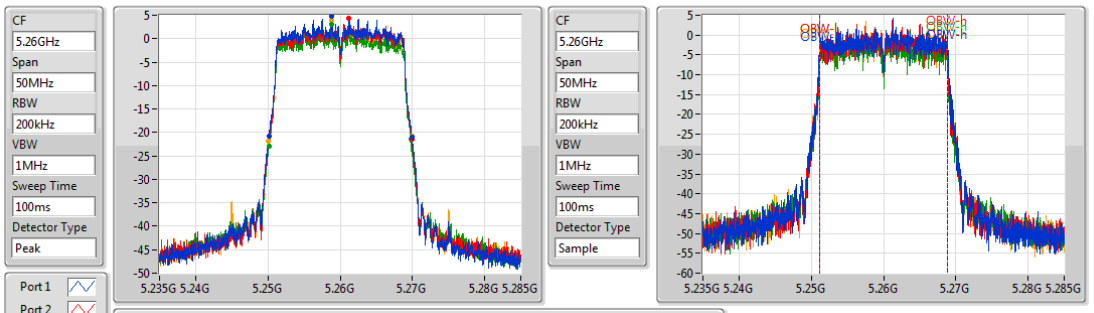


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
19.875M	5.23005G	5.249925G	17.666M	5.231204G	5.248871G	Inf	1
19.75M	5.230125G	5.249875G	17.641M	5.231204G	5.248846G	Inf	2
20M	5.22995G	5.24995G	17.616M	5.231204G	5.248821G	Inf	3
19.775M	5.23015G	5.249925G	17.691M	5.231154G	5.248846G	Inf	4

802.11ac VHT20-BF_Nss1,(MCS0)_4TX **EBW**

5260MHz

16/10/2018

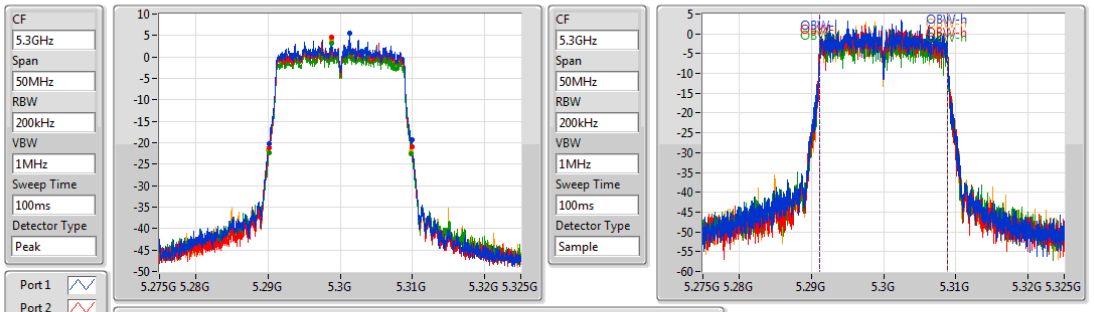


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
19.825M	5.250125G	5.26995G	17.716M	5.251154G	5.268871G	Inf	1
19.8M	5.250175G	5.269975G	17.691M	5.251179G	5.268871G	Inf	2
19.7M	5.25015G	5.26985G	17.616M	5.251179G	5.268796G	Inf	3
19.825M	5.250075G	5.2699G	17.641M	5.251204G	5.268846G	Inf	4

802.11ac VHT20-BF_Nss1,(MCS0)_4TX **EBW**

5300MHz

16/10/2018

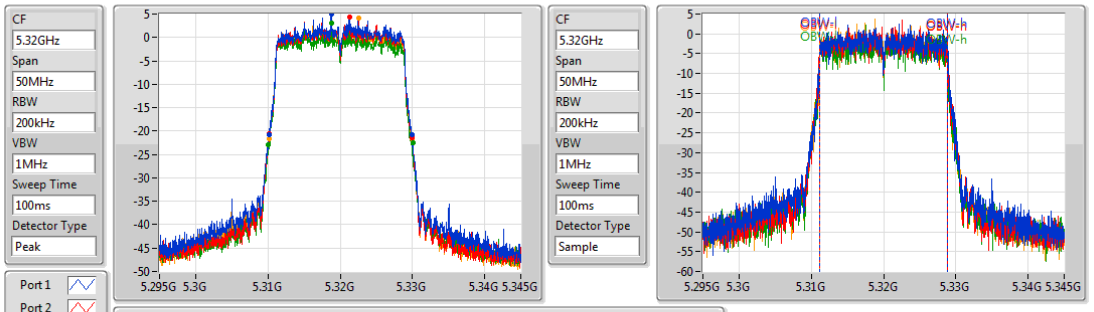


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
19.825M	5.29015G	5.309975G	17.616M	5.291204G	5.308821G	Inf	1
19.8M	5.290175G	5.309975G	17.641M	5.291204G	5.308846G	Inf	2
19.75M	5.290125G	5.309875G	17.666M	5.291179G	5.308846G	Inf	3
19.8M	5.290075G	5.309875G	17.641M	5.291204G	5.308846G	Inf	4

802.11ac VHT20-BF_Nss1,(MCS0)_4TX **EBW**

5320MHz

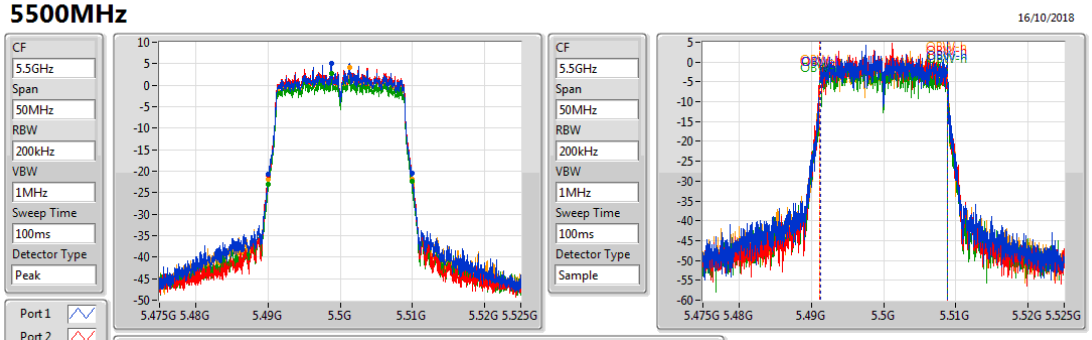
16/10/2018



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
19.8M	5.310125G	5.329925G	17.691M	5.311204G	5.328896G	Inf	1
19.8M	5.310175G	5.329975G	17.666M	5.311179G	5.328846G	Inf	2
19.975M	5.3101G	5.330075G	17.691M	5.311154G	5.328846G	Inf	3
19.775M	5.310125G	5.3299G	17.641M	5.311179G	5.328821G	Inf	4

802.11ac VHT20-BF_Nss1,(MCS0)_4TX **EBW**

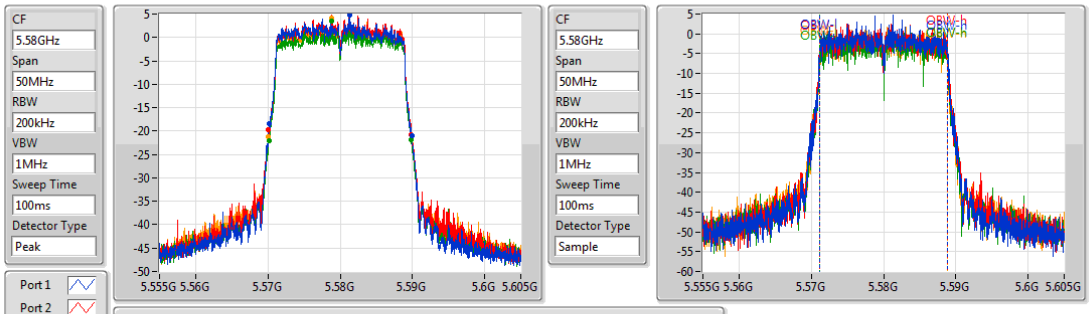
5500MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
19.825M	5.4901G	5.509925G	17.591M	5.491229G	5.508821G	Inf	1
19.875M	5.4901G	5.509975G	17.591M	5.491204G	5.508796G	Inf	2
19.875M	5.490075G	5.50995G	17.691M	5.491179G	5.508871G	Inf	3
19.95M	5.490025G	5.509975G	17.641M	5.491204G	5.508846G	Inf	4

802.11ac VHT20-BF_Nss1,(MCS0)_4TX **EBW**

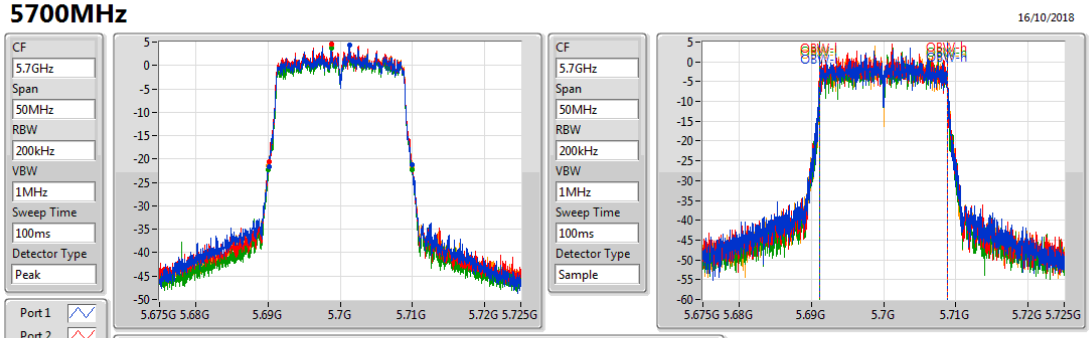
5580MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
19.8M	5.570125G	5.589925G	17.641M	5.571204G	5.588846G	Inf	1
19.8M	5.570075G	5.589875G	17.666M	5.571154G	5.588821G	Inf	2
19.75M	5.570125G	5.589875G	17.641M	5.571204G	5.588846G	Inf	3
19.875M	5.5701G	5.589975G	17.641M	5.571204G	5.588846G	Inf	4

802.11ac VHT20-BF_Nss1,(MCS0)_4TX **EBW**

5700MHz

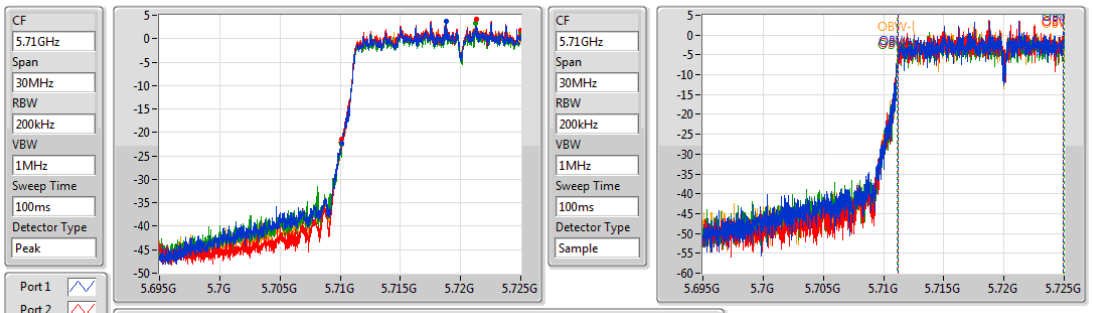


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
19.8M	5.690125G	5.709925G	17.641M	5.691179G	5.708821G	Inf	1
19.775M	5.690175G	5.70995G	17.666M	5.691179G	5.708846G	Inf	2
19.85M	5.6901G	5.70995G	17.666M	5.691204G	5.708871G	Inf	3
19.95M	5.690025G	5.709975G	17.666M	5.691179G	5.708846G	Inf	4

802.11ac VHT20-BF_Nss1,(MCS0)_4TX **EBW**

5720MHz Straddle 5.47-5.725GHz

16/10/2018

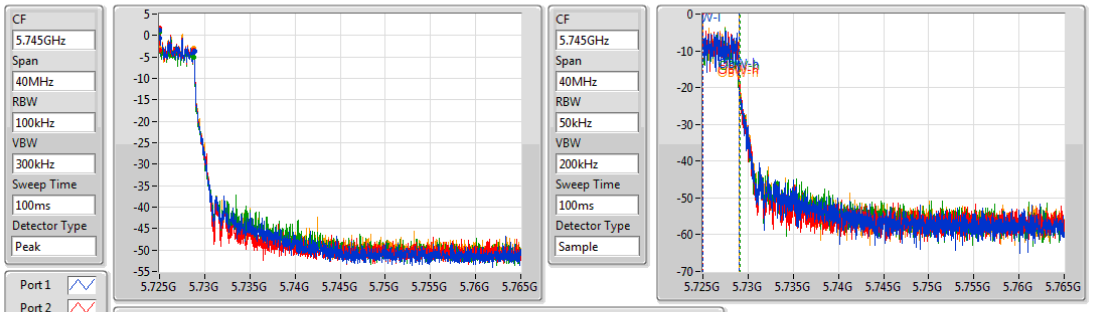


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
14.91M	5.71009G	5.725G	13.763M	5.711184G	5.724948G	Inf	1
14.865M	5.710135G	5.725G	13.748M	5.711184G	5.724933G	Inf	2
14.88M	5.71012G	5.725G	13.793M	5.711169G	5.724963G	Inf	3
14.94M	5.71006G	5.725G	13.763M	5.711169G	5.724933G	Inf	4

802.11ac VHT20-BF_Nss1,(MCS0)_4TX **EBW**

5720MHz Straddle 5.725-5.85GHz

16/10/2018

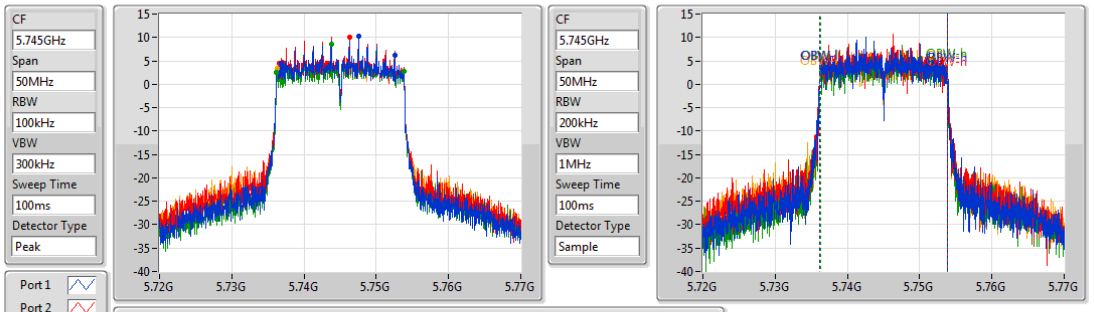


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
3.86M	5.725G	5.72886G	3.978M	5.72501G	5.728988G	500k	1
3.84M	5.725G	5.72884G	3.998M	5.72501G	5.729008G	500k	2
3.84M	5.725G	5.72884G	4.078M	5.72503G	5.729108G	500k	3
3.82M	5.725G	5.72882G	4.038M	5.72501G	5.729048G	500k	4

802.11ac VHT20-BF_Nss1,(MCS0)_4TX **EBW**

5745MHz

16/10/2018

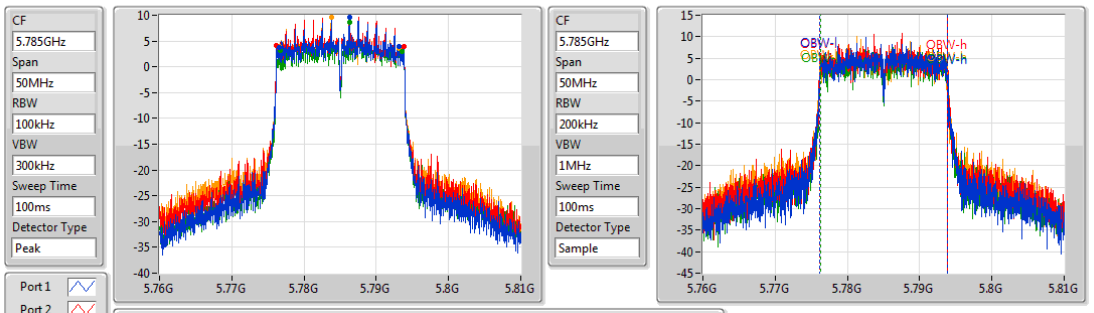


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
15.675M	5.736875G	5.75255G	17.666M	5.736154G	5.753821G	500k	1
15.95M	5.736625G	5.752575G	17.716M	5.736129G	5.753846G	500k	2
17.6M	5.736225G	5.753825G	17.616M	5.736229G	5.753846G	500k	3
17.575M	5.73625G	5.753825G	17.766M	5.736129G	5.753896G	500k	4

802.11ac VHT20-BF_Nss1,(MCS0)_4TX **EBW**

5785MHz

16/10/2018

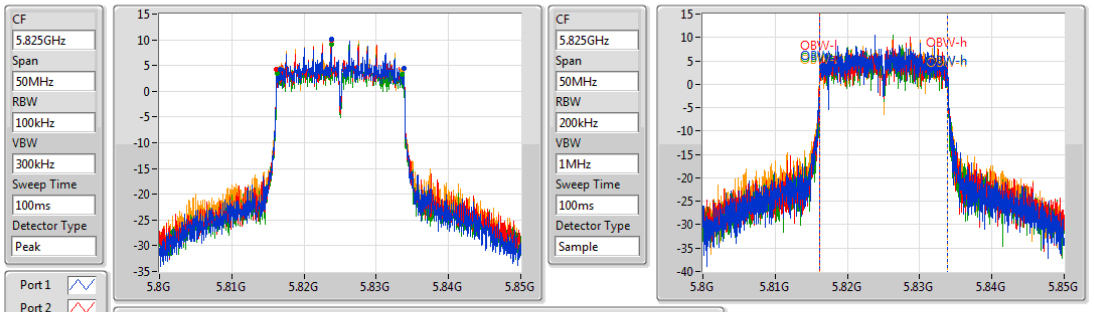


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.55M	5.776625G	5.793175G	17.666M	5.776179G	5.793846G	500k	1
17.625M	5.7762G	5.793825G	17.716M	5.776154G	5.793871G	500k	2
16.875M	5.77665G	5.793525G	17.641M	5.776229G	5.793871G	500k	3
16.55M	5.776625G	5.793175G	17.741M	5.776154G	5.793896G	500k	4

802.11ac VHT20-BF_Nss1,(MCS0)_4TX **EBW**

5825MHz

16/10/2018

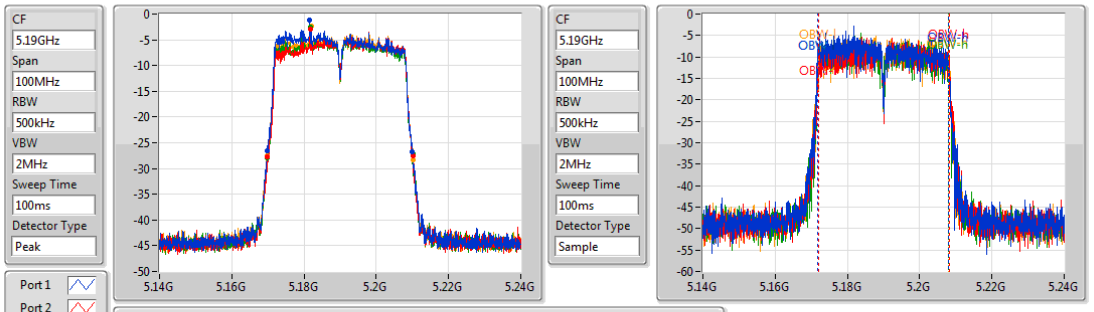


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
17.2M	5.81665G	5.83385G	17.716M	5.816179G	5.833896G	500k	1
17.625M	5.816225G	5.83385G	17.691M	5.816179G	5.833871G	500k	2
17.25M	5.81625G	5.8335G	17.691M	5.816204G	5.833896G	500k	3
16.85M	5.81665G	5.8335G	17.766M	5.816129G	5.833896G	500k	4

802.11ac VHT40-BF_Nss1,(MCS0)_4TX **EBW**

5190MHz

17/10/2018

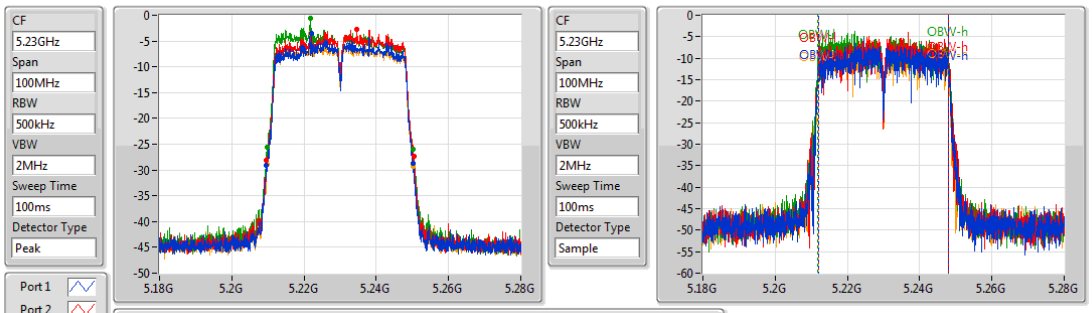


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
40.25M	5.1698G	5.21005G	36.182M	5.171809G	5.207991G	Inf	1
40.5M	5.16975G	5.21025G	36.182M	5.171959G	5.208141G	Inf	2
40.35M	5.16975G	5.2101G	36.232M	5.171859G	5.208091G	Inf	3
40.55M	5.1697G	5.21025G	36.082M	5.171959G	5.208041G	Inf	4

802.11ac VHT40-BF_Nss1,(MCS0)_4TX **EBW**

5230MHz

17/10/2018

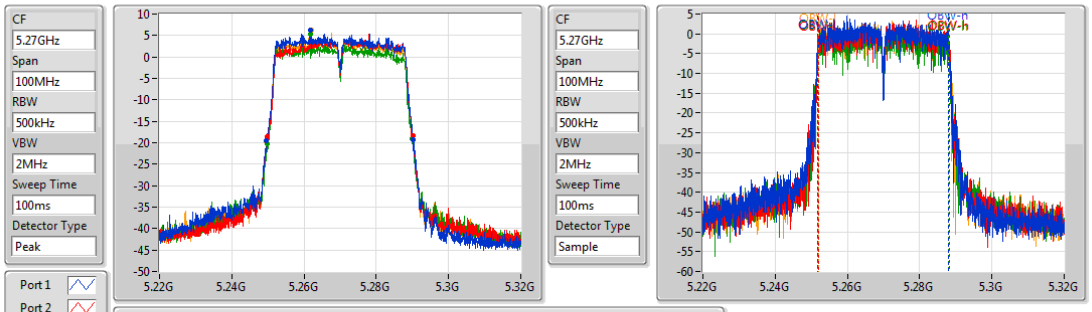


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
40.55M	5.20965G	5.2502G	36.182M	5.211909G	5.248091G	Inf	1
40.7M	5.20965G	5.25035G	36.082M	5.212009G	5.248091G	Inf	2
40.5M	5.2097G	5.2502G	36.232M	5.211859G	5.248091G	Inf	3
40.45M	5.2098G	5.25025G	36.132M	5.211909G	5.248041G	Inf	4

802.11ac VHT40-BF_Nss1,(MCS0)_4TX **EBW**

5270MHz

16/10/2018

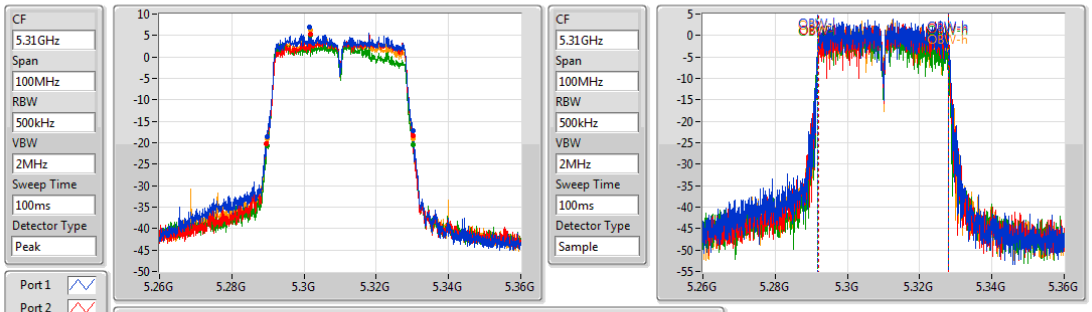


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
40.6M	5.2496G	5.2902G	36.232M	5.251859G	5.288091G	Inf	1
40.35M	5.24985G	5.2902G	36.232M	5.251909G	5.288141G	Inf	2
40.3M	5.24975G	5.29005G	36.232M	5.251859G	5.288091G	Inf	3
40.65M	5.24965G	5.2903G	36.182M	5.251909G	5.288091G	Inf	4

802.11ac VHT40-BF_Nss1,(MCS0)_4TX **EBW**

5310MHz

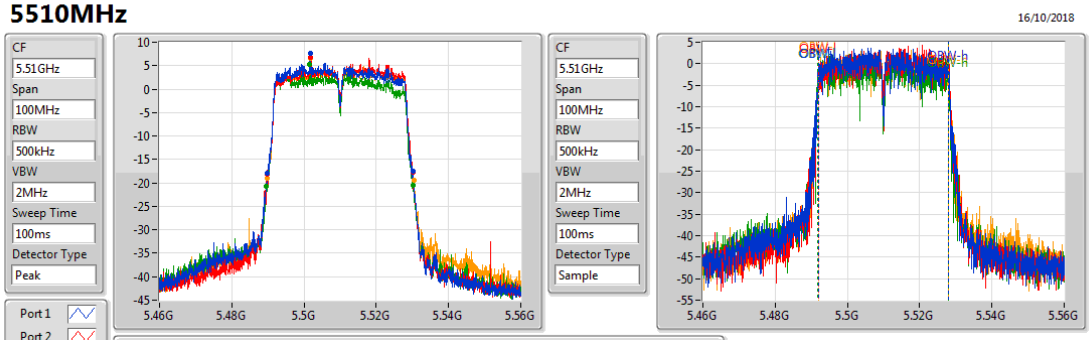
16/10/2018



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
40.4M	5.28975G	5.33015G	36.232M	5.291859G	5.328091G	Inf	1
40.6M	5.28955G	5.33015G	36.132M	5.291959G	5.328091G	Inf	2
40.45M	5.2897G	5.33015G	36.232M	5.291759G	5.327991G	Inf	3
40.45M	5.28975G	5.3302G	36.182M	5.291859G	5.328041G	Inf	4

802.11ac VHT40-BF_Nss1,(MCS0)_4TX **EBW**

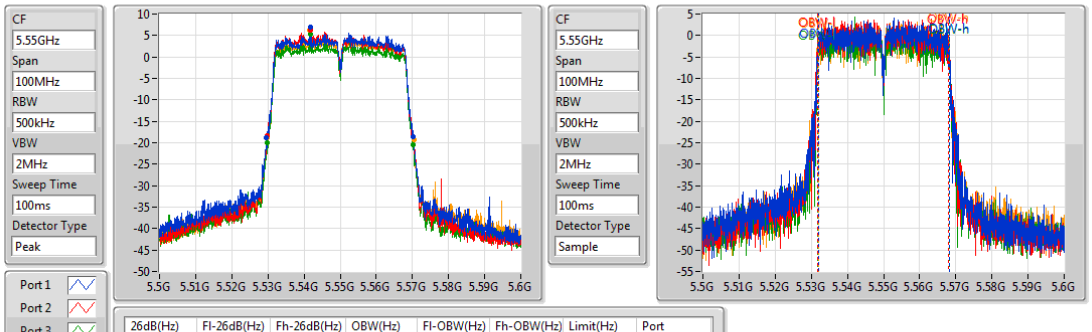
5510MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
40.3M	5.48985G	5.53015G	36.082M	5.491909G	5.527991G	Inf	1
40.35M	5.4898G	5.53015G	36.082M	5.492009G	5.528091G	Inf	2
40.6M	5.48965G	5.53025G	36.182M	5.491809G	5.527991G	Inf	3
40.55M	5.4898G	5.53035G	36.132M	5.491909G	5.528041G	Inf	4

802.11ac VHT40-BF_Nss1,(MCS0)_4TX **EBW**

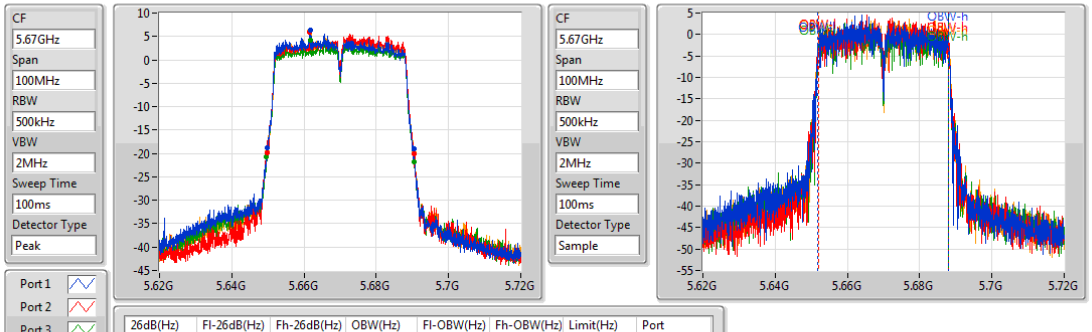
5550MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
40.65M	5.52965G	5.5703G	36.232M	5.531909G	5.568141G	Inf	1
40.55M	5.5297G	5.57025G	36.282M	5.531809G	5.568091G	Inf	2
40.5M	5.5298G	5.5703G	36.282M	5.531859G	5.568141G	Inf	3
40.65M	5.52975G	5.5704G	36.232M	5.531909G	5.568141G	Inf	4

802.11ac VHT40-BF_Nss1,(MCS0)_4TX **EBW**

5670MHz

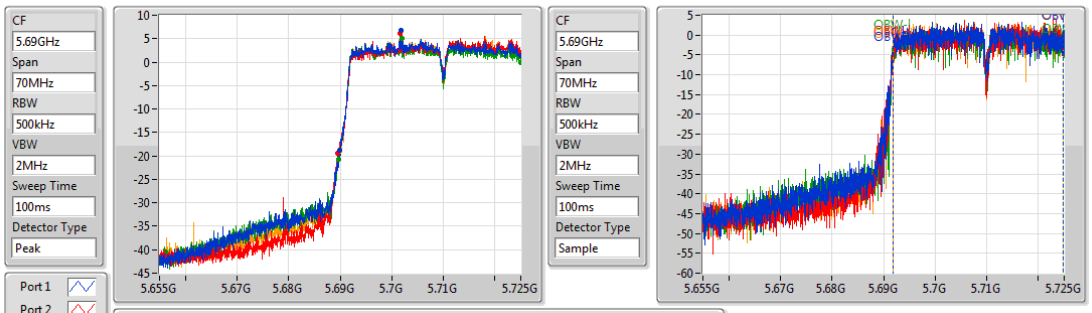


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
40.5M	5.64985G	5.69035G	36.182M	5.651859G	5.688041G	Inf	1
40.65M	5.6497G	5.69035G	36.132M	5.651959G	5.688091G	Inf	2
40.9M	5.6496G	5.6905G	36.132M	5.651959G	5.688091G	Inf	3
40.7M	5.64975G	5.69045G	36.182M	5.651909G	5.688091G	Inf	4

802.11ac VHT40-BF_Nss1,(MCS0)_4TX **EBW**

5710MHz Straddle 5.47-5.725GHz

16/10/2018

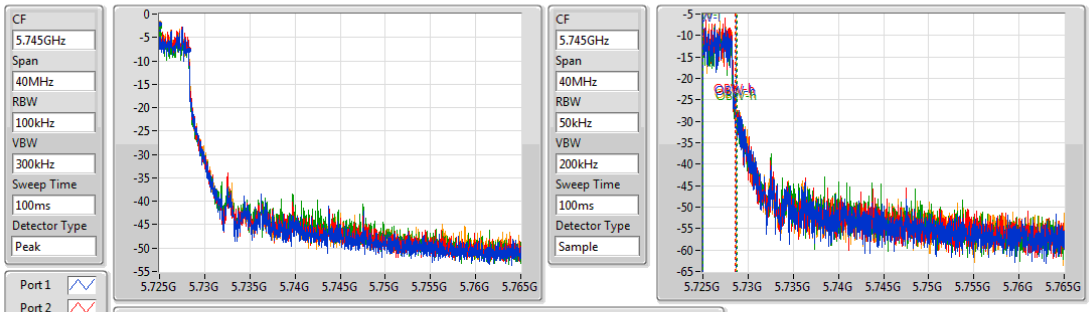


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
35.035M	5.689965G	5.725G	32.954M	5.691889G	5.724843G	Inf	1
35.42M	5.68958G	5.725G	32.954M	5.691889G	5.724843G	Inf	2
35.385M	5.689615G	5.725G	32.919M	5.691854G	5.724773G	Inf	3
35.175M	5.689825G	5.725G	33.023M	5.691819G	5.724843G	Inf	4

802.11ac VHT40-BF_Nss1,(MCS0)_4TX **EBW**

5710MHz Straddle 5.725-5.85GHz

16/10/2018

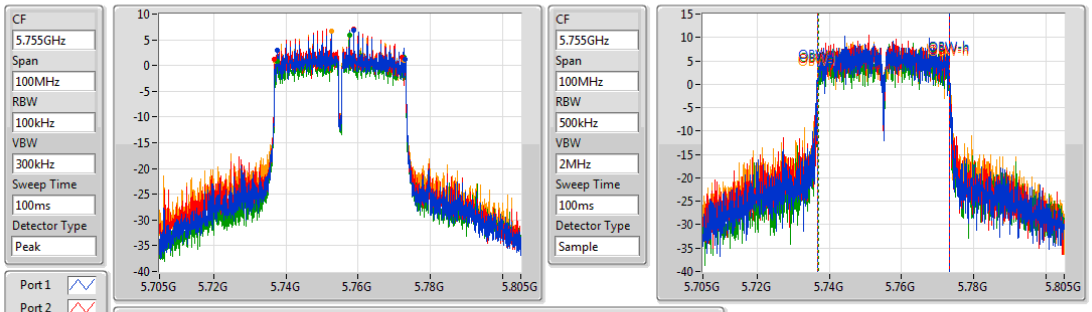


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
3.24M	5.725G	5.72824G	3.658M	5.72501G	5.728668G	500k	1
3.26M	5.725G	5.72826G	3.598M	5.72501G	5.728608G	500k	2
3.24M	5.725G	5.72824G	3.738M	5.72501G	5.728748G	500k	3
3.26M	5.725G	5.72826G	3.638M	5.72501G	5.728648G	500k	4

802.11ac VHT40-BF_Nss1,(MCS0)_4TX **EBW**

5755MHz

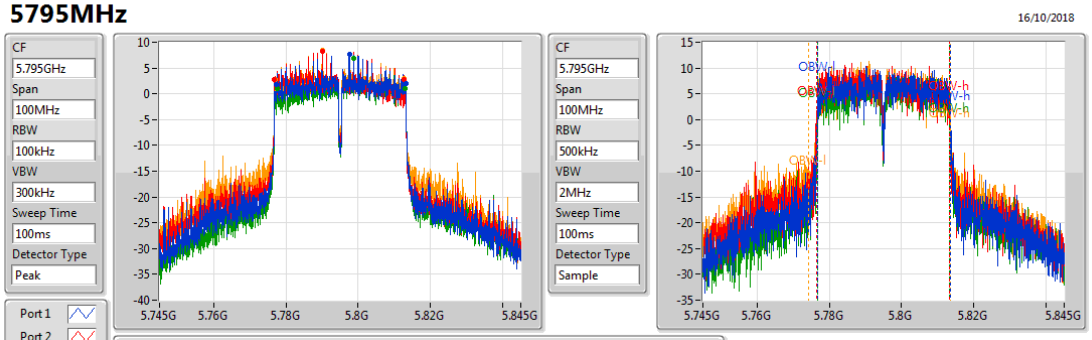
16/10/2018



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
35.35M	5.7375G	5.77285G	36.382M	5.736809G	5.773191G	500k	1
35.4M	5.73685G	5.77225G	36.332M	5.736809G	5.773141G	500k	2
35.05M	5.73755G	5.7726G	36.182M	5.736959G	5.773141G	500k	3
35.4M	5.73715G	5.77255G	36.532M	5.736709G	5.773241G	500k	4

802.11ac VHT40-BF_Nss1,(MCS0)_4TX EBW

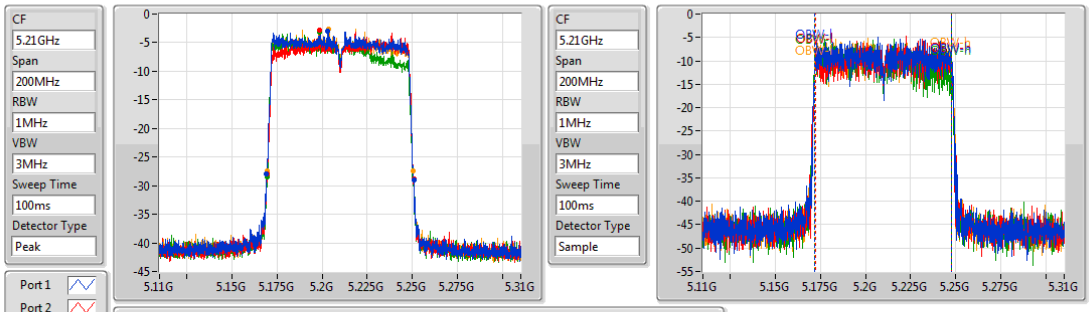
5795MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
35.7M	5.77745G	5.81315G	36.582M	5.776809G	5.813391G	500k	1
35.75M	5.77685G	5.8126G	36.782M	5.776409G	5.813191G	500k	2
35.4M	5.7775G	5.8129G	36.482M	5.776859G	5.813341G	500k	3
35.65M	5.7769G	5.81255G	39.33M	5.77416G	5.813491G	500k	4

802.11ac VHT80-BF_Nss1,(MCS0)_4TX EBW

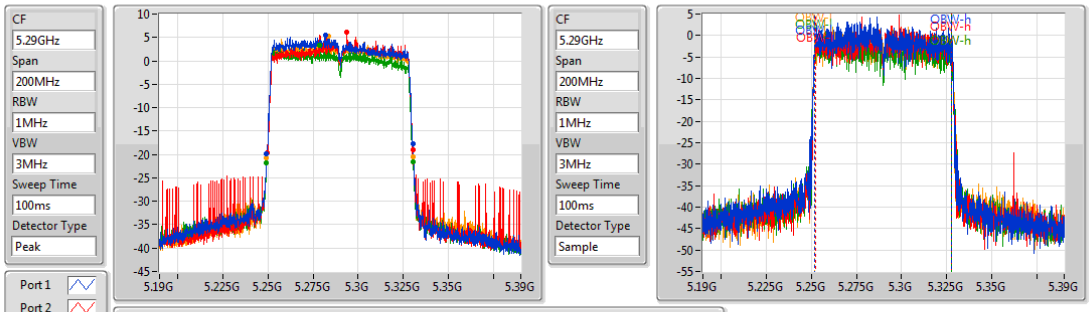
5210MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
81.4M	5.1693G	5.2507G	75.862M	5.172019G	5.247881G	Inf	1
81.3M	5.1695G	5.2508G	75.662M	5.172219G	5.247881G	Inf	2
81.1M	5.1696G	5.2507G	75.662M	5.171919G	5.247581G	Inf	3
80.9M	5.1695G	5.2504G	75.862M	5.172019G	5.247881G	Inf	4

802.11ac VHT80-BF_Nss1,(MCS0)_4TX EBW

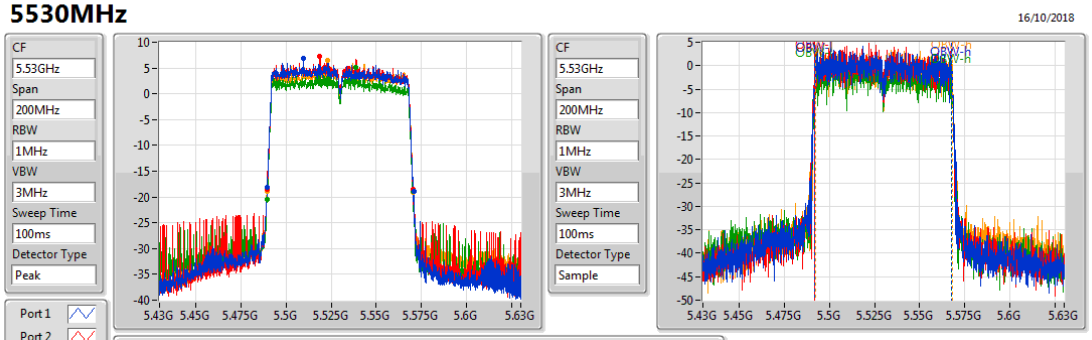
5290MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
81.1M	5.2493G	5.3304G	75.862M	5.252019G	5.327881G	Inf	1
80.8M	5.2494G	5.3302G	75.662M	5.252119G	5.327781G	Inf	2
81.3M	5.2493G	5.3306G	75.862M	5.251819G	5.327681G	Inf	3
81.1M	5.2493G	5.3304G	75.862M	5.251919G	5.327781G	Inf	4

802.11ac VHT80-BF_Nss1,(MCS0)_4TX **EBW**

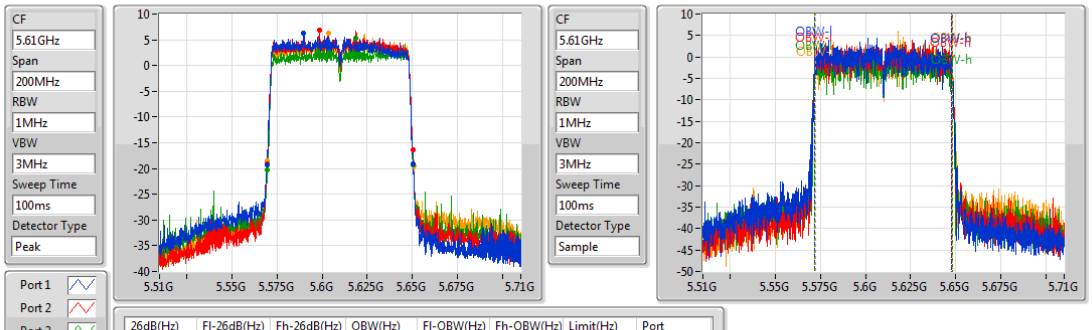
5530MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
81.2M	5.4895G	5.5707G	75.762M	5.492019G	5.567781G	Inf	1
80.8M	5.4895G	5.5703G	75.962M	5.491819G	5.567781G	Inf	2
81M	5.4894G	5.5704G	75.962M	5.491919G	5.567881G	Inf	3
80.7M	5.4897G	5.5704G	75.762M	5.492219G	5.567981G	Inf	4

802.11ac VHT80-BF_Nss1,(MCS0)_4TX **EBW**

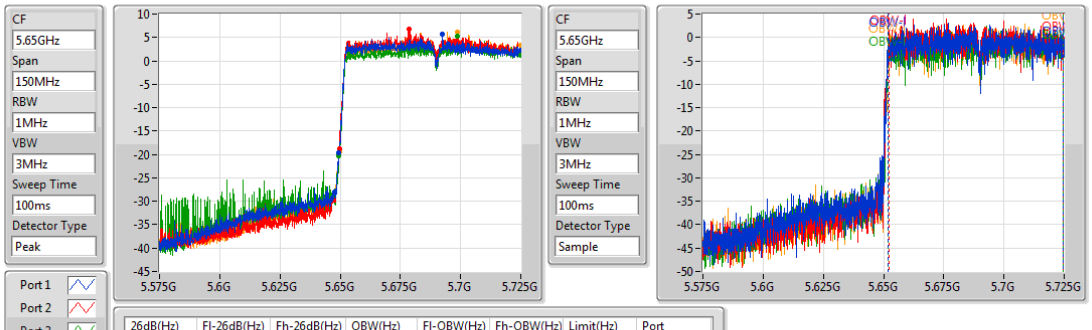
5610MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
81M	5.5694G	5.6504G	75.862M	5.571919G	5.647781G	Inf	1
81.1M	5.5694G	5.6505G	75.862M	5.572019G	5.647881G	Inf	2
81M	5.5696G	5.6506G	76.062M	5.571919G	5.647981G	Inf	3
81M	5.5697G	5.6507G	75.762M	5.572219G	5.647981G	Inf	4

802.11ac VHT80-BF_Nss1,(MCS0)_4TX **EBW**

5690MHz Straddle 5.47-5.725GHz

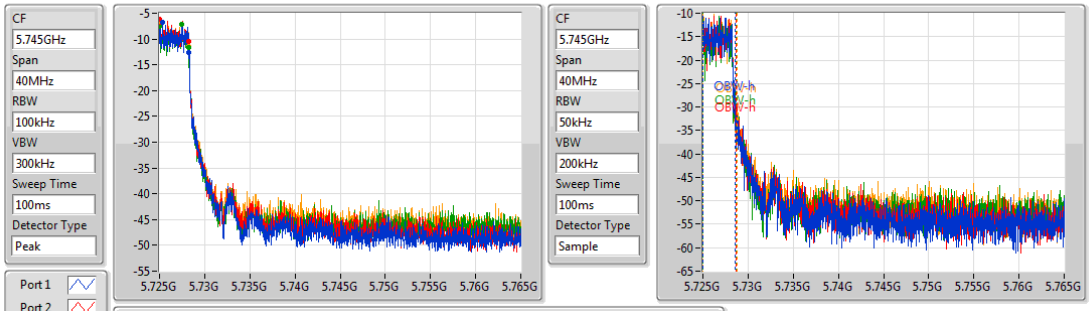


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
75.6M	5.6494G	5.725G	72.714M	5.651874G	5.724588G	Inf	1
75.375M	5.649625G	5.725G	72.489M	5.652099G	5.724588G	Inf	2
75.525M	5.649475G	5.725G	72.639M	5.651949G	5.724588G	Inf	3
75.375M	5.649625G	5.725G	72.714M	5.652024G	5.724738G	Inf	4

802.11ac VHT80-BF_Nss1,(MCS0)_4TX **EBW**

5690MHz Straddle 5.725-5.85GHz

16/10/2018

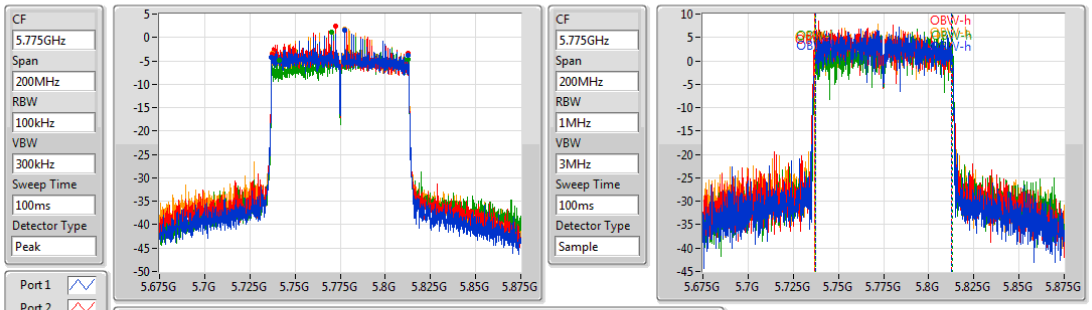


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
3.26M	5.725G	5.72826G	3.558M	5.72501G	5.728568G	500k	1
3.26M	5.725G	5.72826G	3.618M	5.72501G	5.728628G	500k	2
3.26M	5.725G	5.72826G	3.698M	5.72501G	5.728708G	500k	3
3.26M	5.725G	5.72826G	3.778M	5.72501G	5.728788G	500k	4

802.11ac VHT80-BF_Nss1,(MCS0)_4TX **EBW**

5775MHz

16/10/2018

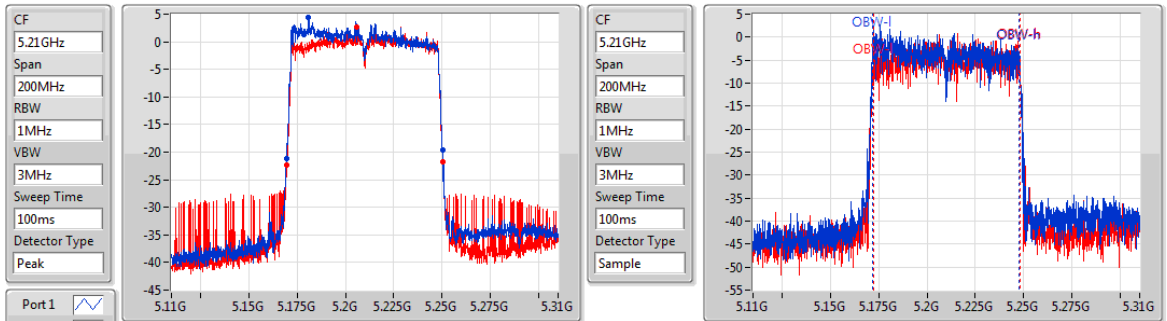


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
75.4M	5.7371G	5.8125G	75.762M	5.737119G	5.812881G	500k	1
75.3M	5.7373G	5.8126G	75.862M	5.736819G	5.812681G	500k	2
71.4M	5.7413G	5.8127G	76.062M	5.737119G	5.813181G	500k	3
75M	5.7375G	5.8125G	75.862M	5.736919G	5.812781G	500k	4

802.11ac VHT80+80-BF_Nss2,(MCS0)_2TX **EBW**

#5210MHz,5290MHz

17/10/2018



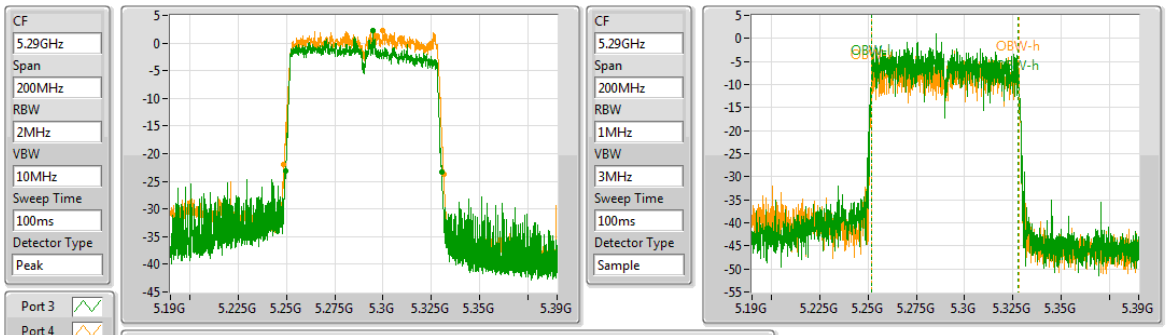
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
80.8M	5.1694G	5.2502G	76.162M	5.171719G	5.247881G	Inf	1
81.1M	5.1694G	5.2505G	75.762M	5.172219G	5.247981G	Inf	2

802.11ac VHT80+80-BF_Nss2,(MCS0)_2TX

EBW

5210MHz,#5290MHz

17/10/2018



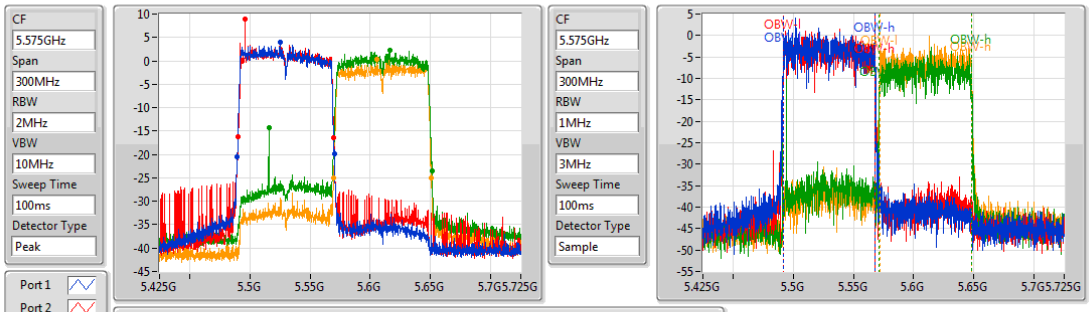
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
81M	5.2494G	5.3304G	75.662M	5.252019G	5.327681G	Inf	3
82.6M	5.2487G	5.3313G	76.062M	5.252019G	5.328081G	Inf	4

802.11ac VHT80+80-BF_Nss2,(MCS0)_4TX

EBW

#5530MHz,#5610MHz

16/10/2018



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
80.7M	5.48965G	5.57035G	75.712M	5.491942G	5.567654G	Inf	1
79.65M	5.4901G	5.56975G	76.012M	5.491942G	5.567954G	Inf	2
135.75M	5.51575G	5.6515G	76.462M	5.571552G	5.648013G	Inf	3
81.3M	5.56945G	5.65075G	76.162M	5.571852G	5.648013G	Inf	4

Summary

Mode	Total Power (dBm)	Total Power (W)	EIRP (dBm)	EIRP (W)
5.15-5.25GHz	-	-	-	-
802.11ac VHT80+80_Nss1,(MCS0)_2TX	13.45	0.02213	17.95	0.06237
5.25-5.35GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	18.30	0.06761	22.80	0.19055
802.11ac VHT20_Nss1,(MCS0)_4TX	18.25	0.06683	22.75	0.18836
802.11ac VHT40_Nss1,(MCS0)_4TX	20.41	0.10990	24.91	0.30974
802.11ac VHT80_Nss1,(MCS0)_4TX	14.77	0.02999	19.27	0.08453
802.11ac VHT80+80_Nss1,(MCS0)_2TX	10.88	0.01225	15.38	0.03451
5.47-5.725GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	18.48	0.07047	22.98	0.19861
802.11ac VHT20_Nss1,(MCS0)_4TX	18.14	0.06516	22.64	0.18365
802.11ac VHT40_Nss1,(MCS0)_4TX	21.08	0.12823	25.58	0.36141
802.11ac VHT80_Nss1,(MCS0)_4TX	23.64	0.23121	28.14	0.65163
802.11ac VHT80+80_Nss1,(MCS0)_4TX	15.56	0.03597	20.06	0.10139
5.725-5.85GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	9.58	0.00908	14.08	0.02559
802.11ac VHT20_Nss1,(MCS0)_4TX	10.18	0.01042	14.68	0.02938
802.11ac VHT40_Nss1,(MCS0)_4TX	8.74	0.00748	13.24	0.02109
802.11ac VHT80_Nss1,(MCS0)_4TX	6.52	0.00449	11.02	0.01265

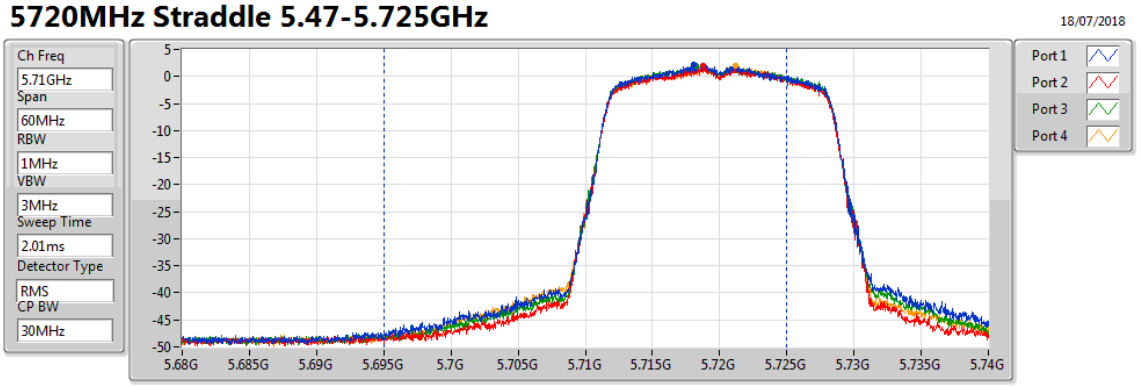
Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Port 3 (dBm)	Port 4 (dBm)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
802.11a_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-	-	-
5260MHz_TnomVnom	Pass	4.50	12.97	11.52	11.55	11.76	18.01	23.93	22.51	29.93
5300MHz_TnomVnom	Pass	4.50	12.90	11.86	11.44	11.34	17.95	23.89	22.45	29.89
5320MHz_TnomVnom	Pass	4.50	13.14	11.95	12.13	11.77	18.30	23.91	22.80	29.91
5500MHz_TnomVnom	Pass	4.50	13.09	11.85	12.29	12.51	18.48	23.94	22.98	29.94
5580MHz_TnomVnom	Pass	4.50	12.77	12.21	11.87	11.89	18.22	23.92	22.72	29.92
5700MHz_TnomVnom	Pass	4.50	12.27	11.90	11.76	12.18	18.05	23.92	22.55	29.92
5720MHz Straddle 5.47-5.725GHz_TnomVnom	Pass	4.50	11.41	10.95	11.31	11.18	17.24	22.70	21.74	28.70
5720MHz Straddle 5.725-5.85GHz_TnomVnom	Pass	4.50	4.00	3.00	3.75	3.41	9.58	30.00	14.08	36.00
802.11ac VHT20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5260MHz_TnomVnom	Pass	4.50	12.79	11.47	11.79	11.47	17.94	23.98	22.44	29.98
5300MHz_TnomVnom	Pass	4.50	13.08	12.04	12.26	11.32	18.24	23.98	22.74	29.98
5320MHz_TnomVnom	Pass	4.50	13.11	11.91	12.03	11.75	18.25	23.96	22.75	29.96
5500MHz_TnomVnom	Pass	4.50	12.68	11.85	11.92	11.98	18.14	23.98	22.64	29.98
5580MHz_TnomVnom	Pass	4.50	12.68	12.20	11.62	11.47	18.04	23.99	22.54	29.99
5700MHz_TnomVnom	Pass	4.50	12.37	11.97	12.09	11.90	18.11	24.00	22.61	30.00
5720MHz Straddle 5.47-5.725GHz_TnomVnom	Pass	4.50	11.54	11.24	11.81	11.33	17.51	22.74	22.01	28.74
5720MHz Straddle 5.725-5.85GHz_TnomVnom	Pass	4.50	4.37	4.03	4.28	3.95	10.18	30.00	14.68	36.00
802.11ac VHT40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5270MHz_TnomVnom	Pass	4.50	15.09	13.90	14.19	14.29	20.41	24.00	24.91	30.00
5310MHz_TnomVnom	Pass	4.50	15.07	13.74	14.23	13.81	20.27	24.00	24.77	30.00
5510MHz_TnomVnom	Pass	4.50	13.71	12.87	13.03	13.08	19.21	24.00	23.71	30.00
5550MHz_TnomVnom	Pass	4.50	14.94	14.70	14.00	14.00	20.45	24.00	24.95	30.00
5670MHz_TnomVnom	Pass	4.50	15.16	14.65	14.91	14.52	20.84	24.00	25.34	30.00
5710MHz Straddle 5.47-5.725GHz_TnomVnom	Pass	4.50	15.24	14.71	15.25	15.00	21.08	24.00	25.58	30.00
5710MHz Straddle 5.725-5.85GHz_TnomVnom	Pass	4.50	2.78	2.96	3.04	2.01	8.74	30.00	13.24	36.00
802.11ac VHT80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5290MHz_TnomVnom	Pass	4.50	10.42	7.94	8.63	7.39	14.77	24.00	19.27	30.00
5530MHz_TnomVnom	Pass	4.50	10.93	9.30	9.77	9.27	15.89	24.00	20.39	30.00
5610MHz_TnomVnom	Pass	4.50	15.42	15.08	15.04	15.01	21.16	24.00	25.66	30.00
5690MHz Straddle 5.47-5.725GHz_TnomVnom	Pass	4.50	17.72	17.40	18.14	17.15	23.64	24.00	28.14	30.00
5690MHz Straddle 5.725-5.85GHz_TnomVnom	Pass	4.50	0.75	0.41	0.67	0.12	6.52	30.00	11.02	36.00
802.11ac VHT80+80_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-
#5210MHz,5290MHz_TnomVnom	Pass	4.50	10.42	10.46			13.45	30.00	17.95	36.00
5210MHz,#5290MHz_TnomVnom	Pass	4.50			8.78	6.72	10.88	24.00	15.38	30.00
#5530MHz,#5610MHz_TnomVnom	Pass	4.50	10.95	10.67	8.61	6.61	15.56	24.00	20.06	30.00

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

802.11a_Nss1,(6Mbps)_4TX **AV Power**

5720MHz Straddle 5.47-5.725GHz

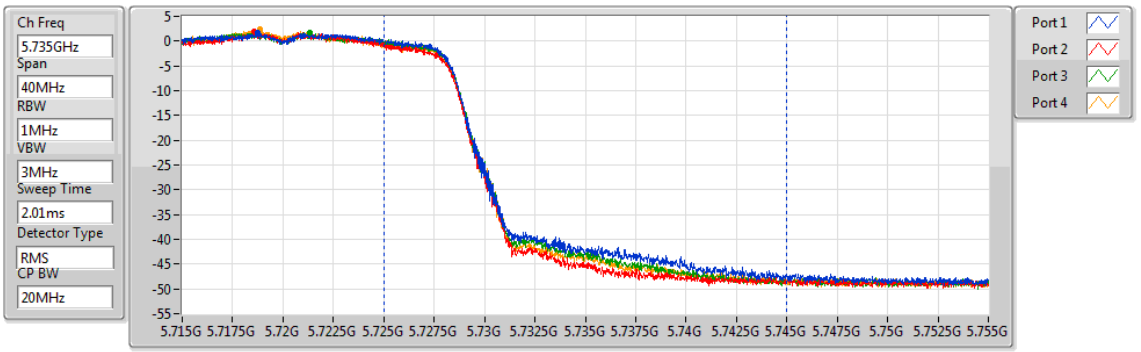


Sum=Total Power
PX=Port X

Sum(dBm)	P1(dBm)	P2(dBm)	P3(dBm)	P4(dBm)
17.24	11.41	10.95	11.31	11.18

802.11a_Nss1,(6Mbps)_4TX **AV Power**

5720MHz Straddle 5.725-5.85GHz

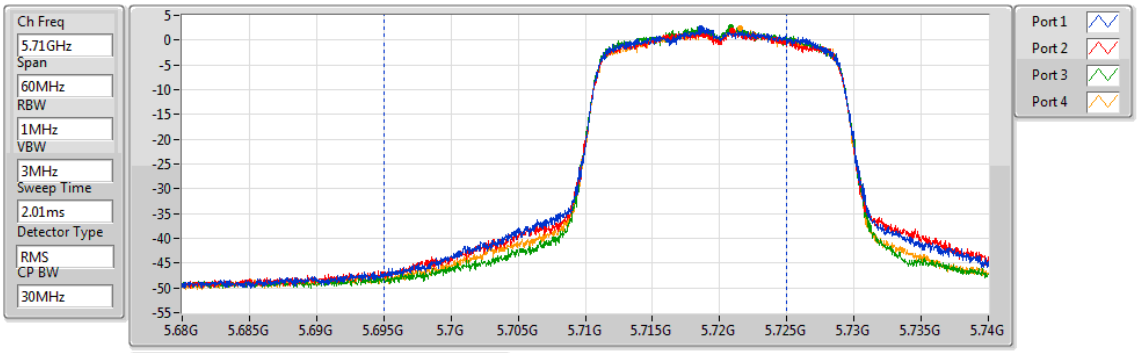


Sum=Total Power
PX=Port X

Sum(dBm)	P1(dBm)	P2(dBm)	P3(dBm)	P4(dBm)
9.58	4.00	3.00	3.75	3.41

802.11ac VHT20_Nss1,(MCS0)_4TX **AV Power**

5720MHz Straddle 5.47-5.725GHz



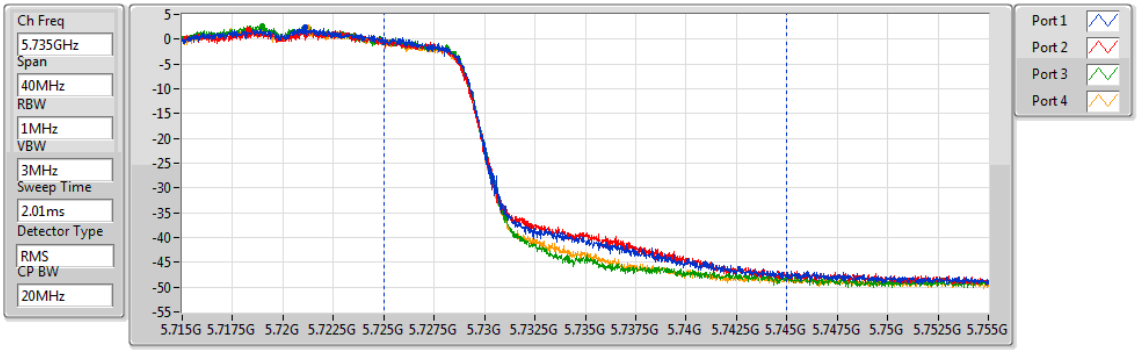
Sum=Total Power
PX=Port X

Sum(dBm)	P1(dBm)	P2(dBm)	P3(dBm)	P4(dBm)
17.51	11.54	11.24	11.81	11.33

802.11ac VHT20_Nss1,(MCS0)_4TX **AV Power**

5720MHz Straddle 5.725-5.85GHz

16/07/2018



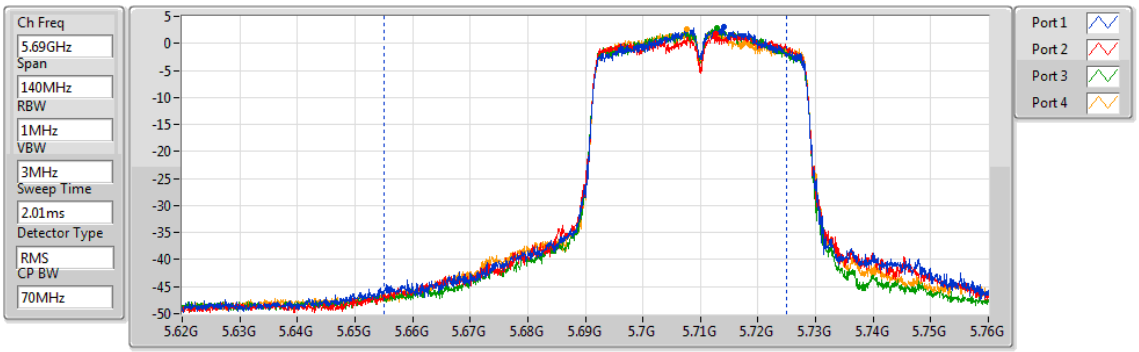
Sum=Total Power
PX=Port X

Sum(dBm)	P1(dBm)	P2(dBm)	P3(dBm)	P4(dBm)
10.18	4.37	4.03	4.28	3.95

802.11ac VHT40_Nss1,(MCS0)_4TX **AV Power**

5710MHz Straddle 5.47-5.725GHz

16/07/2018



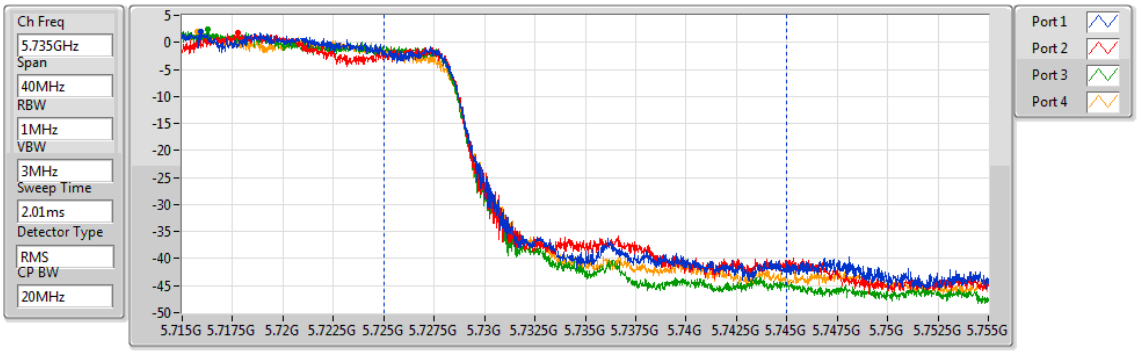
Sum=Total Power
PX=Port X

Sum(dBm)	P1(dBm)	P2(dBm)	P3(dBm)	P4(dBm)
21.08	15.24	14.71	15.25	15.00

802.11ac VHT40_Nss1,(MCS0)_4TX **AV Power**

5710MHz Straddle 5.725-5.85GHz

16/07/2018



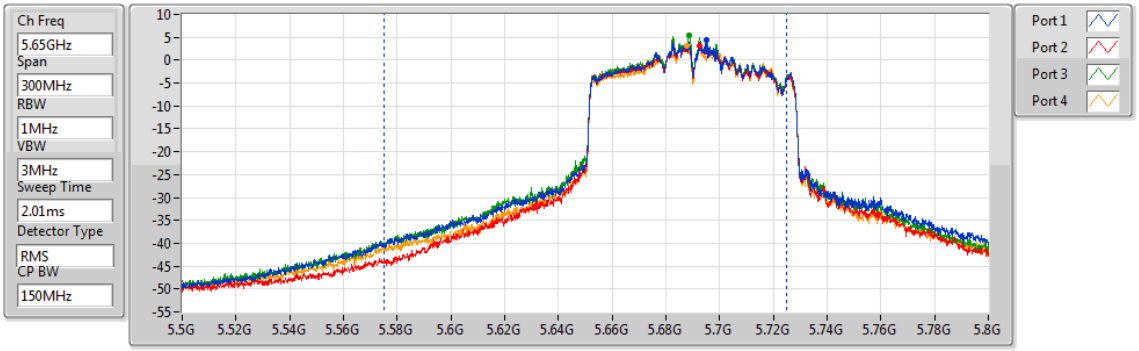
Sum=Total Power
PX=Port X

Sum(dBm)	P1(dBm)	P2(dBm)	P3(dBm)	P4(dBm)
8.74	2.78	2.96	3.04	2.01

802.11ac VHT80_Nss1,(MCS0)_4TX **AV Power**

5690MHz Straddle 5.47-5.725GHz

16/07/2018



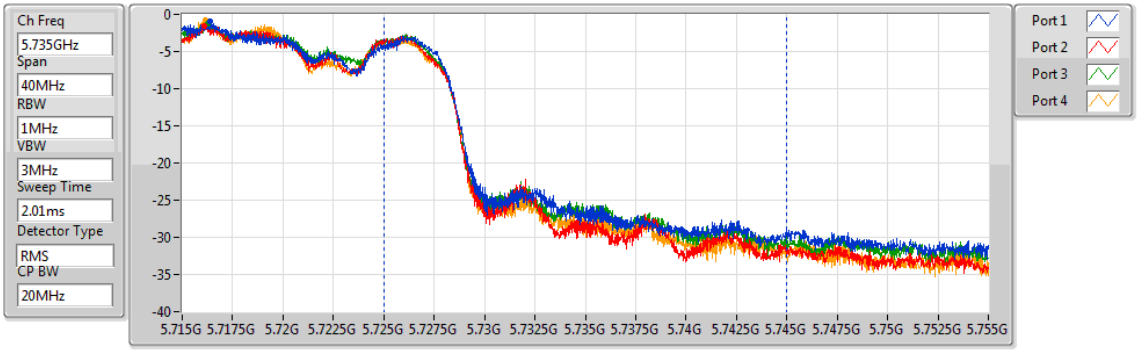
Sum=Total Power
PX=Port X

Sum(dBm)	P1(dBm)	P2(dBm)	P3(dBm)	P4(dBm)
23.64	17.72	17.40	18.14	17.15

802.11ac VHT80_Nss1,(MCS0)_4TX **AV Power**

5690MHz Straddle 5.725-5.85GHz

16/07/2018



Sum=Total Power
PX=Port X

Sum(dBm)	P1(dBm)	P2(dBm)	P3(dBm)	P4(dBm)
6.52	0.75	0.41	0.67	0.12

Summary

Mode	Total Power (dBm)	Total Power (W)	EIRP (dBm)	EIRP (W)
5.15-5.25GHz	-	-	-	-
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	24.56	0.28576	35.08	3.22107
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	23.98	0.25003	34.50	2.81838
802.11ac VHT80-BF_Nss1,(MCS0)_4TX	17.96	0.06252	28.48	0.70469
802.11ac VHT80+80-BF_Nss2,(MCS0)_2TX	14.26	0.02667	18.76	0.07516
5.25-5.35GHz	-	-	-	-
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	18.73	0.07464	29.25	0.84140
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	18.86	0.07691	29.38	0.86696
802.11ac VHT80-BF_Nss1,(MCS0)_4TX	17.62	0.05781	28.14	0.65163
802.11ac VHT80+80-BF_Nss2,(MCS0)_2TX	10.96	0.01247	15.46	0.03516
5.47-5.725GHz	-	-	-	-
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	19.29	0.08492	29.81	0.95719
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	19.26	0.08433	29.78	0.95060
802.11ac VHT80-BF_Nss1,(MCS0)_4TX	19.11	0.08147	29.63	0.91833
802.11ac VHT80+80-BF_Nss2,(MCS0)_4TX	14.93	0.03112	22.44	0.17539
5.725-5.85GHz	-	-	-	-
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	24.93	0.31117	35.45	3.50752
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	25.47	0.35237	35.99	3.97192
802.11ac VHT80-BF_Nss1,(MCS0)_4TX	21.97	0.15740	32.49	1.77419

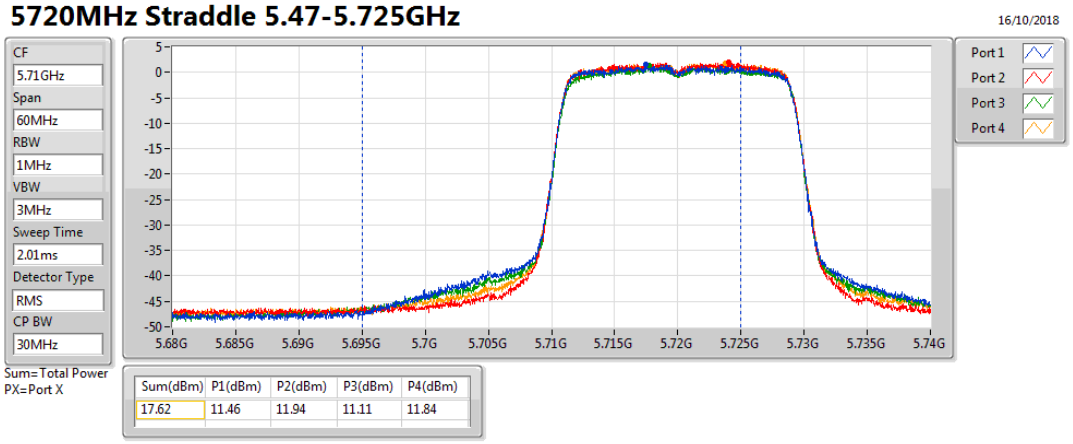
Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Port 3 (dBm)	Port 4 (dBm)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz_TnomVnom	Pass	10.52	17.24	16.52	14.86	15.91	22.24	25.48	32.76	36.00
5200MHz_TnomVnom	Pass	10.52	18.21	17.65	15.75	17.30	23.34	25.48	33.86	36.00
5240MHz_TnomVnom	Pass	10.52	19.29	18.77	17.10	18.69	24.56	25.48	35.08	36.00
5260MHz_TnomVnom	Pass	10.52	12.81	12.28	10.87	12.25	18.13	19.42	28.65	29.94
5300MHz_TnomVnom	Pass	10.52	13.88	13.26	11.07	12.11	18.73	19.44	29.25	29.96
5320MHz_TnomVnom	Pass	10.52	12.74	12.24	10.88	11.93	18.02	19.44	28.54	29.96
5500MHz_TnomVnom	Pass	10.52	12.93	13.25	11.33	12.63	18.61	19.45	29.13	29.97
5580MHz_TnomVnom	Pass	10.52	14.00	14.43	11.48	12.55	19.29	19.44	29.81	29.96
5700MHz_TnomVnom	Pass	10.52	13.40	14.06	11.93	12.63	19.10	19.44	29.62	29.96
5720MHz Straddle 5.47-5.725GHz_TnomVnom	Pass	10.52	11.46	11.94	11.11	11.84	17.62	18.21	28.14	28.73
5720MHz Straddle 5.725-5.85GHz_TnomVnom	Pass	10.52	5.73	6.09	5.26	6.28	11.88	25.48	22.40	36.00
5745MHz_TnomVnom	Pass	10.52	18.54	18.92	17.87	18.53	24.50	25.48	35.02	36.00
5785MHz_TnomVnom	Pass	10.52	18.69	19.03	17.96	18.71	24.64	25.48	35.16	36.00
5825MHz_TnomVnom	Pass	10.52	19.25	19.13	18.21	18.99	24.93	25.48	35.45	36.00
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5190MHz_TnomVnom	Pass	10.52	12.85	11.86	11.27	12.09	18.08	25.48	28.60	36.00
5230MHz_TnomVnom	Pass	10.52	18.76	18.28	16.44	18.01	23.98	25.48	34.50	36.00
5270MHz_TnomVnom	Pass	10.52	13.99	13.33	11.03	12.47	18.86	19.48	29.38	30.00
5310MHz_TnomVnom	Pass	10.52	12.97	12.49	11.12	12.22	18.27	19.48	28.79	30.00
5510MHz_TnomVnom	Pass	10.52	14.13	14.12	11.30	12.82	19.26	19.48	29.78	30.00
5550MHz_TnomVnom	Pass	10.52	13.15	13.16	11.44	12.62	18.67	19.48	29.19	30.00
5670MHz_TnomVnom	Pass	10.52	13.60	13.68	11.77	12.84	19.06	19.48	29.58	30.00
5710MHz Straddle 5.47-5.725GHz_TnomVnom	Pass	10.52	13.27	13.43	12.68	13.49	19.25	19.48	29.77	30.00
5710MHz Straddle 5.725-5.85GHz_TnomVnom	Pass	10.52	2.68	2.60	1.42	3.49	8.63	25.48	19.15	36.00
5755MHz_TnomVnom	Pass	10.52	18.51	18.95	17.42	18.71	24.46	25.48	34.98	36.00
5795MHz_TnomVnom	Pass	10.52	19.49	19.76	18.48	19.93	25.47	25.48	35.99	36.00
802.11ac VHT80-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5210MHz_TnomVnom	Pass	10.52	12.81	11.91	10.63	12.13	17.96	25.48	28.48	36.00
5290MHz_TnomVnom	Pass	10.52	12.47	11.76	10.27	11.61	17.62	19.48	28.14	30.00
5530MHz_TnomVnom	Pass	10.52	13.54	13.75	11.66	13.11	19.11	19.48	29.63	30.00
5610MHz_TnomVnom	Pass	10.52	13.15	13.33	11.46	12.65	18.73	19.48	29.25	30.00
5690MHz Straddle 5.47-5.725GHz_TnomVnom	Pass	10.52	12.95	13.62	12.19	13.19	19.04	19.48	29.56	30.00
5690MHz Straddle 5.725-5.85GHz_TnomVnom	Pass	10.52	-1.07	-0.75	-1.51	-0.67	5.03	25.48	15.55	36.00
5775MHz_TnomVnom	Pass	10.52	16.03	16.28	15.27	16.13	21.97	25.48	32.49	36.00
802.11ac VHT80+80-BF_Nss2,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-
#5210MHz,5290MHz_TnomVnom	Pass	7.51	11.71	10.74			14.26	30.00	21.77	36.00
5210MHz,#5290MHz_TnomVnom	Pass	7.51			8.70	7.05	10.96	24.00	18.47	30.00
802.11ac VHT80+80-BF_Nss2,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
#5530MHz,#5610MHz_TnomVnom	Pass	10.52	10.50	10.39	5.46	7.33	14.93	22.49	25.45	30.00

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

802.11ac VHT20-BF_Nss1,(MCS0)_4TX **AV Power**

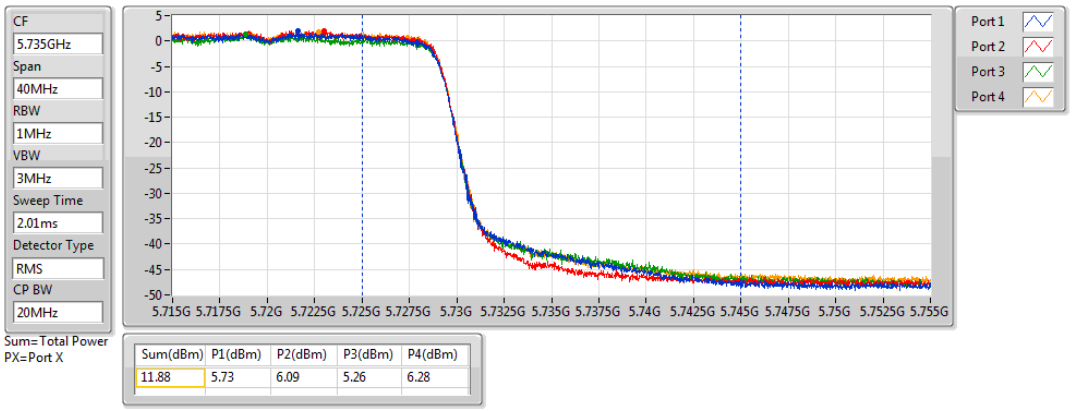
5720MHz Straddle 5.47-5.725GHz



Sum(dBm)	P1(dBm)	P2(dBm)	P3(dBm)	P4(dBm)
17.62	11.46	11.94	11.11	11.84

802.11ac VHT20-BF_Nss1,(MCS0)_4TX **AV Power**

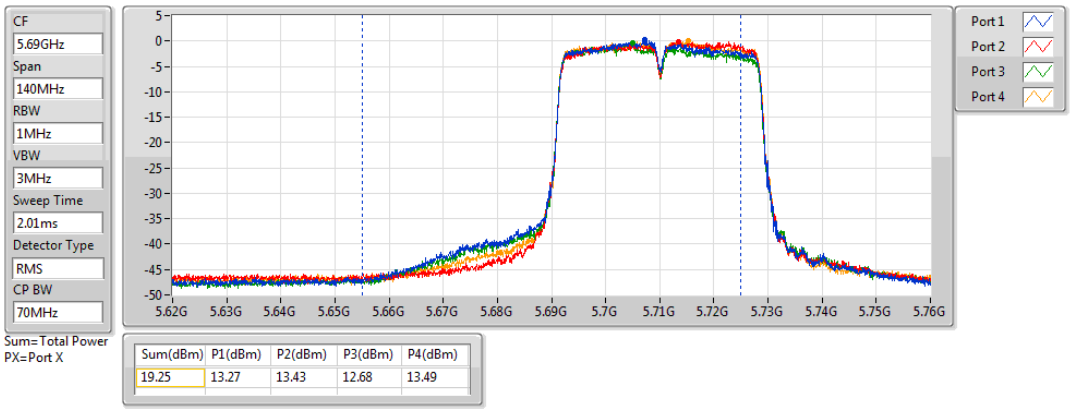
5720MHz Straddle 5.725-5.85GHz



Sum(dBm)	P1(dBm)	P2(dBm)	P3(dBm)	P4(dBm)
11.88	5.73	6.09	5.26	6.28

802.11ac VHT40-BF_Nss1,(MCS0)_4TX **AV Power**

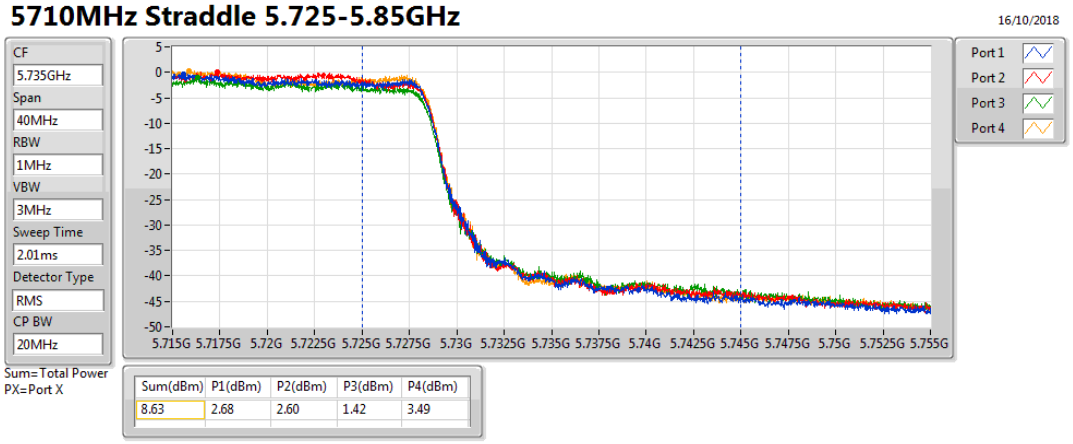
5710MHz Straddle 5.47-5.725GHz



Sum(dBm)	P1(dBm)	P2(dBm)	P3(dBm)	P4(dBm)
19.25	13.27	13.43	12.68	13.49

802.11ac VHT40-BF_Nss1,(MCS0)_4TX **AV Power**

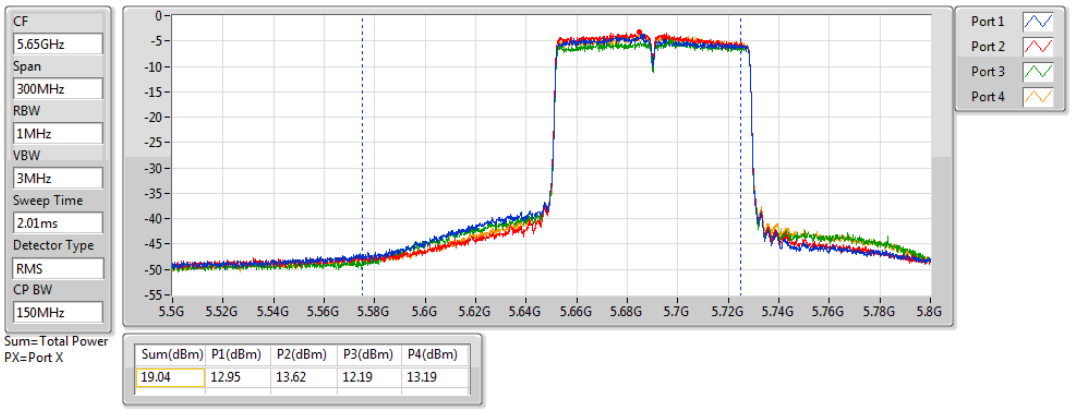
5710MHz Straddle 5.725-5.85GHz



Sum(dBm)	P1(dBm)	P2(dBm)	P3(dBm)	P4(dBm)
8.63	2.68	2.60	1.42	3.49

802.11ac VHT80-BF_Nss1,(MCS0)_4TX **AV Power**

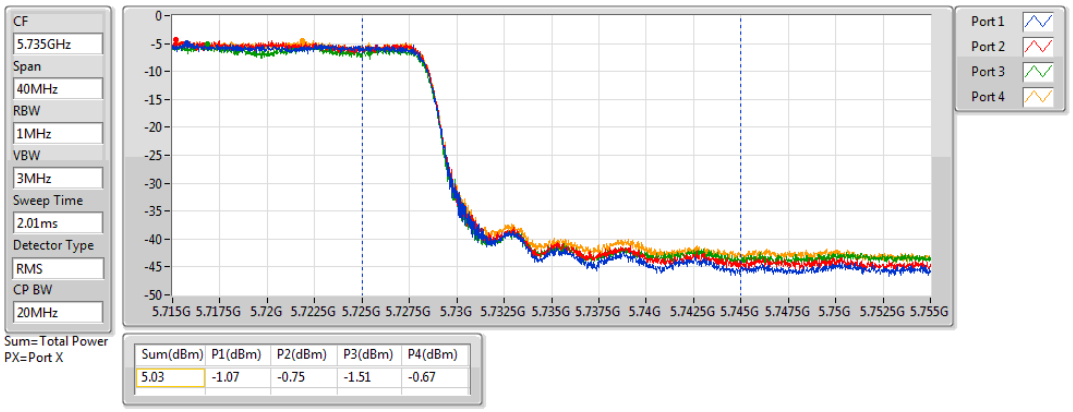
5690MHz Straddle 5.47-5.725GHz



Sum(dBm)	P1(dBm)	P2(dBm)	P3(dBm)	P4(dBm)
19.04	12.95	13.62	12.19	13.19

802.11ac VHT80-BF_Nss1,(MCS0)_4TX **AV Power**

5690MHz Straddle 5.725-5.85GHz



Sum(dBm)	P1(dBm)	P2(dBm)	P3(dBm)	P4(dBm)
5.03	-1.07	-0.75	-1.51	-0.67

Summary

Mode	Total Power (dBm)	Total Power (W)	EIRP (dBm)	EIRP (W)
5.15-5.25GHz	-	-	-	-
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	10.45	0.01109	20.97	0.12503
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	10.40	0.01096	20.92	0.12359
802.11ac VHT80-BF_Nss1,(MCS0)_4TX	10.39	0.01094	20.91	0.12331
802.11ac VHT80+80-BF_Nss2,(MCS0)_2TX	13.14	0.02061	17.64	0.05808
5.25-5.35GHz	-	-	-	-
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	18.73	0.07464	29.25	0.84140
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	18.86	0.07691	29.38	0.86696
802.11ac VHT80-BF_Nss1,(MCS0)_4TX	17.62	0.05781	28.14	0.65163
802.11ac VHT80+80-BF_Nss2,(MCS0)_2TX	10.14	0.01033	14.64	0.02911
5.47-5.725GHz	-	-	-	-
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	19.29	0.08492	29.81	0.95719
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	19.26	0.08433	29.78	0.95060
802.11ac VHT80-BF_Nss1,(MCS0)_4TX	19.11	0.08147	29.63	0.91833
802.11ac VHT80+80-BF_Nss2,(MCS0)_4TX	14.93	0.03112	22.44	0.17539
5.725-5.85GHz	-	-	-	-
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	24.93	0.31117	35.45	3.50752
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	25.47	0.35237	35.99	3.97192
802.11ac VHT80-BF_Nss1,(MCS0)_4TX	21.97	0.15740	32.49	1.77419

Result

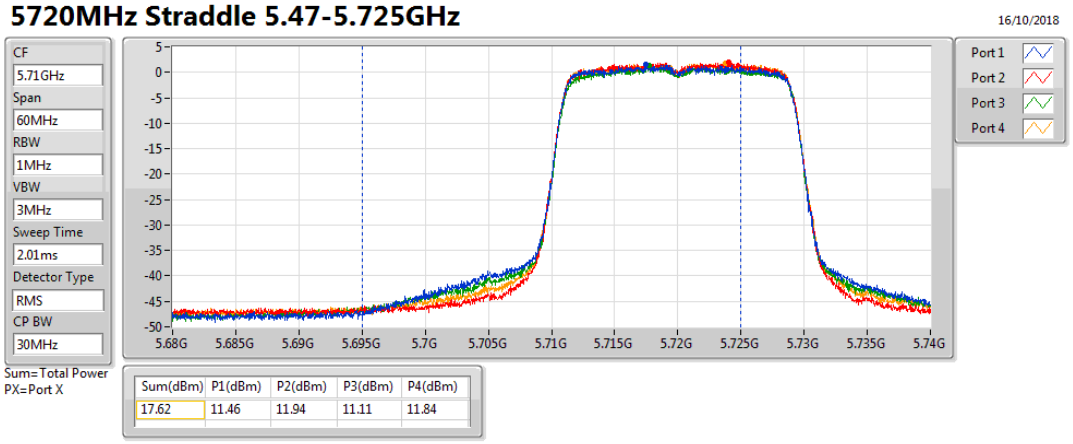
Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Port 3 (dBm)	Port 4 (dBm)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz_TnomVnom	Pass	10.52	5.51	3.53	3.87	4.53	10.45	25.48	20.97	36.00
5200MHz_TnomVnom	Pass	10.52	5.10	3.93	3.75	4.45	10.36	25.48	20.88	36.00
5240MHz_TnomVnom	Pass	10.52	3.09	5.18	5.58	3.16	10.42	25.48	20.94	36.000
5260MHz_TnomVnom	Pass	10.52	12.81	12.28	10.87	12.25	18.13	19.42	28.65	29.94
5280MHz_TnomVnom										
5300MHz_TnomVnom	Pass	10.52	13.88	13.26	11.07	12.11	18.73	19.44	29.25	29.96
5320MHz_TnomVnom	Pass	10.52	12.74	12.24	10.88	11.93	18.02	19.44	28.54	29.96
5500MHz_TnomVnom	Pass	10.52	12.93	13.25	11.33	12.63	18.61	19.45	29.13	29.97
5580MHz_TnomVnom	Pass	10.52	14.00	14.43	11.48	12.55	19.29	19.44	29.81	29.96
5700MHz_TnomVnom	Pass	10.52	13.40	14.06	11.93	12.63	19.10	19.44	29.62	29.96
5720MHz Straddle 5.47-5.725GHz_TnomVnom	Pass	10.52	11.46	11.94	11.11	11.84	17.62	18.20	28.14	28.72
5720MHz Straddle 5.725-5.85GHz_TnomVnom	Pass	10.52	5.73	6.09	5.26	6.28	11.88	25.48	22.40	36.00
5745MHz_TnomVnom	Pass	10.52	18.54	18.92	17.87	18.53	24.50	25.48	35.02	36.00
5785MHz_TnomVnom	Pass	10.52	18.69	19.03	17.96	18.71	24.64	25.48	35.16	36.00
5825MHz_TnomVnom	Pass	10.52	19.25	19.13	18.21	18.99	24.93	25.48	35.45	36.00
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5190MHz_TnomVnom	Pass	10.52	5.05	3.81	3.79	4.72	10.40	25.48	20.92	36.00
5230MHz_TnomVnom	Pass	10.52	2.29	4.92	5.56	2.73	10.12	25.48	20.64	36.00
5270MHz_TnomVnom	Pass	10.52	13.99	13.33	11.03	12.47	18.86	19.48	29.38	30.00
5310MHz_TnomVnom	Pass	10.52	12.97	12.49	11.12	12.22	18.27	19.48	28.79	30.00
5510MHz_TnomVnom	Pass	10.52	14.13	14.12	11.30	12.82	19.26	19.48	29.78	30.00
5550MHz_TnomVnom	Pass	10.52	13.15	13.16	11.44	12.62	18.67	19.48	29.19	30.00
5670MHz_TnomVnom	Pass	10.52	13.60	13.68	11.77	12.84	19.06	19.48	29.58	30.00
5710MHz Straddle 5.47-5.725GHz_TnomVnom	Pass	10.52	13.27	13.43	12.68	13.49	19.25	19.48	29.77	30.00
5710MHz Straddle 5.725-5.85GHz_TnomVnom	Pass	10.52	2.68	2.60	1.42	3.49	8.63	25.48	19.15	36.00
5755MHz_TnomVnom	Pass	10.52	18.51	18.95	17.42	18.71	24.46	25.48	34.98	36.00
5795MHz_TnomVnom	Pass	10.52	19.49	19.76	18.48	19.93	25.47	25.48	35.99	36.00
802.11ac VHT80-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5210MHz_TnomVnom	Pass	10.52	4.88	4.32	3.50	4.64	10.39	25.48	20.91	36.00
5290MHz_TnomVnom	Pass	10.52	12.47	11.76	10.27	11.61	17.62	19.48	28.14	30.00
5530MHz_TnomVnom	Pass	10.52	13.54	13.75	11.66	13.11	19.11	19.48	29.63	30.00
5610MHz_TnomVnom	Pass	10.52	13.15	13.33	11.46	12.65	18.73	19.48	29.25	30.00
5690MHz Straddle 5.47-5.725GHz_TnomVnom	Pass	10.52	12.95	13.62	12.19	13.19	19.04	19.48	29.56	30.00
5690MHz Straddle 5.725-5.85GHz_TnomVnom	Pass	10.52	-1.07	-0.75	-1.51	-0.67	5.03	25.48	15.55	36.00
5775MHz_TnomVnom	Pass	10.52	16.03	16.28	15.27	16.13	21.97	25.48	32.49	36.00
802.11ac VHT80+80-BF_Nss2,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-
#5210MHz,5290MHz_TnomVnom	Pass	7.51	10.68	9.51			13.14	30.00	20.65	36.00
5210MHz,#5290MHz_TnomVnom	Pass	7.51			7.96	6.09	10.14	24.00	17.65	30.00
802.11ac VHT80+80-BF_Nss2,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Port 3 (dBm)	Port 4 (dBm)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
#5530MHz,#5610MHz_TnomVnom	Pass	10.52	10.50	10.39	5.46	7.33	14.93	22.49	25.45	30.00

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

802.11ac VHT20-BF_Nss1,(MCS0)_4TX **AV Power**

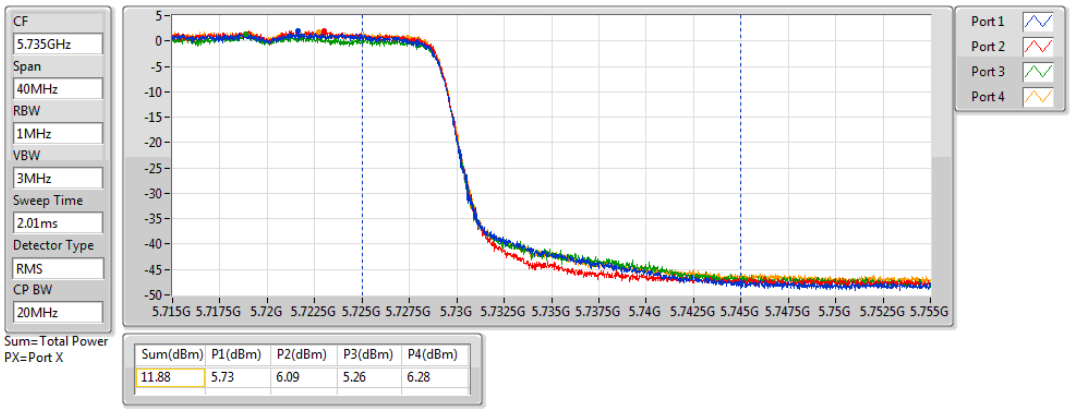
5720MHz Straddle 5.47-5.725GHz



Sum(dBm)	P1(dBm)	P2(dBm)	P3(dBm)	P4(dBm)
17.62	11.46	11.94	11.11	11.84

802.11ac VHT20-BF_Nss1,(MCS0)_4TX **AV Power**

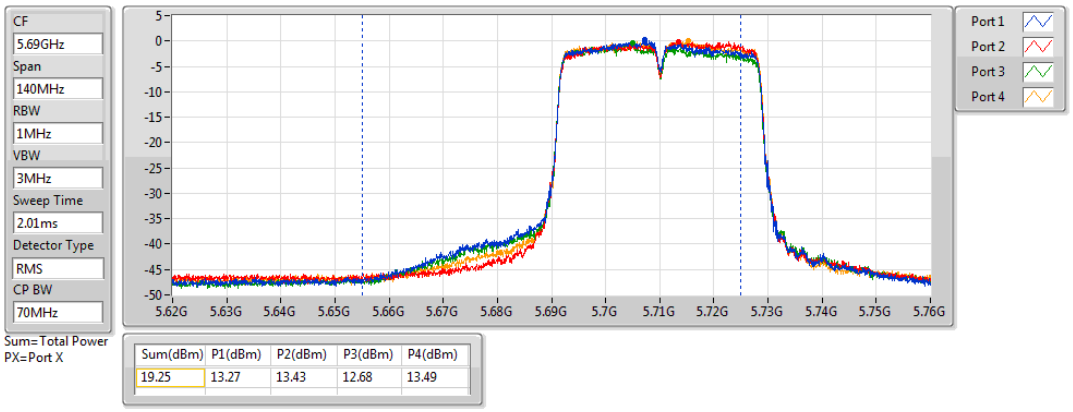
5720MHz Straddle 5.725-5.85GHz



Sum(dBm)	P1(dBm)	P2(dBm)	P3(dBm)	P4(dBm)
11.88	5.73	6.09	5.26	6.28

802.11ac VHT40-BF_Nss1,(MCS0)_4TX **AV Power**

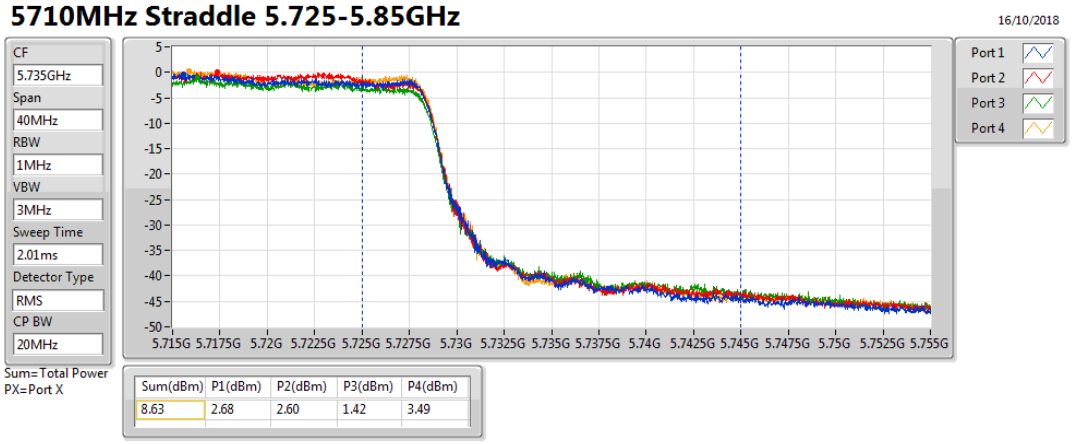
5710MHz Straddle 5.47-5.725GHz



Sum(dBm)	P1(dBm)	P2(dBm)	P3(dBm)	P4(dBm)
19.25	13.27	13.43	12.68	13.49

802.11ac VHT40-BF_Nss1,(MCS0)_4TX **AV Power**

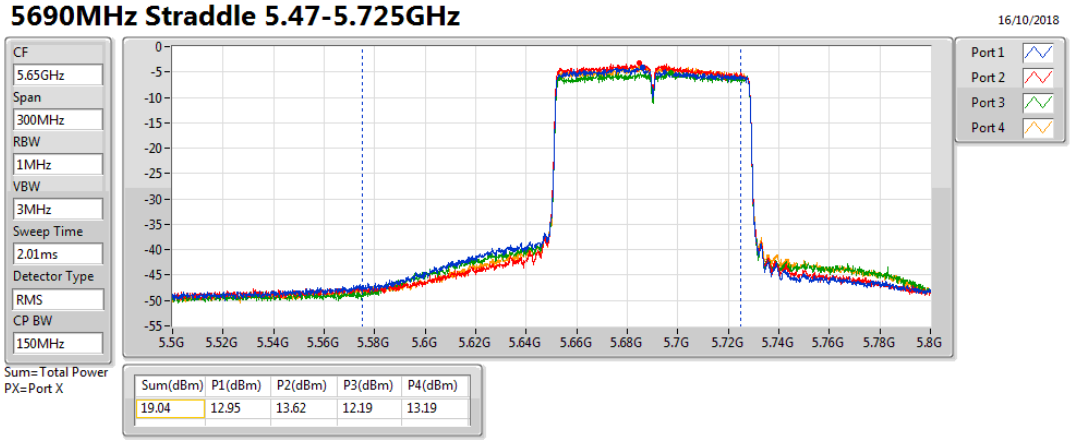
5710MHz Straddle 5.725-5.85GHz



Sum(dBm)	P1(dBm)	P2(dBm)	P3(dBm)	P4(dBm)
8.63	2.68	2.60	1.42	3.49

802.11ac VHT80-BF_Nss1,(MCS0)_4TX **AV Power**

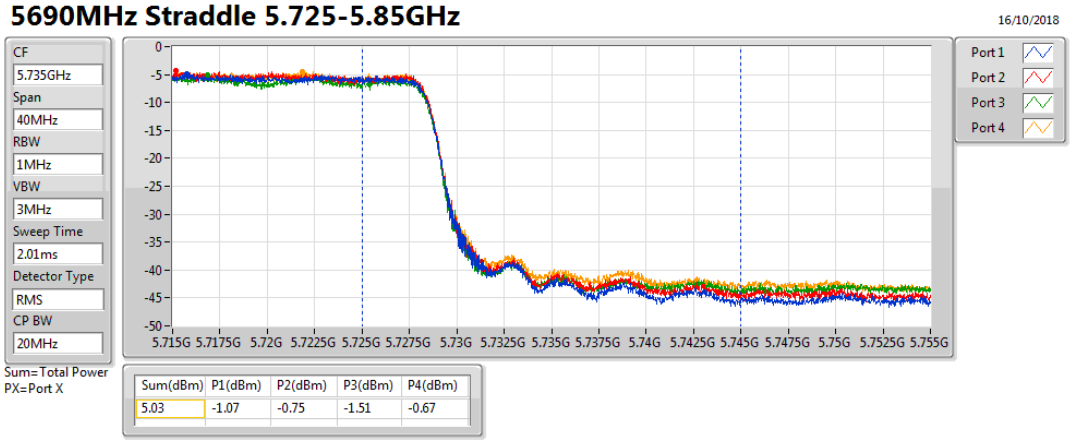
5690MHz Straddle 5.47-5.725GHz



Sum(dBm)	P1(dBm)	P2(dBm)	P3(dBm)	P4(dBm)
19.04	12.95	13.62	12.19	13.19

802.11ac VHT80-BF_Nss1,(MCS0)_4TX **AV Power**

5690MHz Straddle 5.725-5.85GHz



Sum(dBm)	P1(dBm)	P2(dBm)	P3(dBm)	P4(dBm)
5.03	-1.07	-0.75	-1.51	-0.67

Summary

Mode	PD (dBm/RBW)	EIRP PD (dBm/RBW)
5.15-5.25GHz	-	-
802.11ac VHT80+80_Nss1,(MCS0)_2TX	-2.89	4.62
5.25-5.35GHz	-	-
802.11a_Nss1,(6Mbps)_4TX	6.46	16.98
802.11ac VHT20_Nss1,(MCS0)_4TX	6.15	16.67
802.11ac VHT40_Nss1,(MCS0)_4TX	6.41	16.93
802.11ac VHT80_Nss1,(MCS0)_4TX	0.17	10.69
802.11ac VHT80+80_Nss1,(MCS0)_2TX	-5.75	1.76
5.47-5.725GHz	-	-
802.11a_Nss1,(6Mbps)_4TX	6.20	16.72
802.11ac VHT20_Nss1,(MCS0)_4TX	6.14	16.66
802.11ac VHT40_Nss1,(MCS0)_4TX	6.33	16.85
802.11ac VHT80_Nss1,(MCS0)_4TX	6.09	16.61
802.11ac VHT80+80_Nss1,(MCS0)_4TX	-3.54	6.98
5.725-5.85GHz	-	-
802.11a_Nss1,(6Mbps)_4TX	3.42	13.94
802.11ac VHT20_Nss1,(MCS0)_4TX	3.57	14.09
802.11ac VHT40_Nss1,(MCS0)_4TX	1.98	12.50
802.11ac VHT80_Nss1,(MCS0)_4TX	0.21	10.73

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

Result

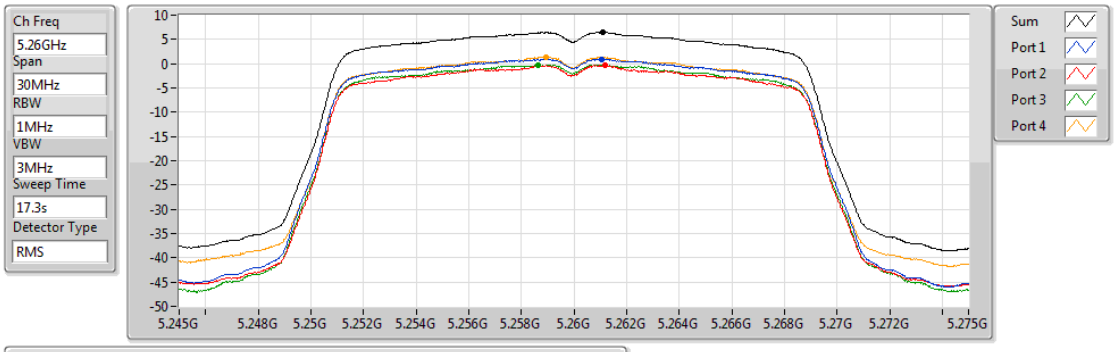
Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	Port 3 (dBm/RBW)	Port 4 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)	EIRP PD (dBm/RBW)	EIRP PD Limit (dBm/RBW)
802.11a_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-	-	-
5260MHz_TnomVnom	Pass	10.52	0.92	-0.22	-0.26	1.40	6.46	6.48	16.98	17.00
5300MHz_TnomVnom	Pass	10.52	0.73	-0.42	-0.21	1.18	6.34	6.48	16.86	17.00
5320MHz_TnomVnom	Pass	10.52	0.75	-0.35	0.01	1.38	6.44	6.48	16.96	17.00
5500MHz_TnomVnom	Pass	10.52	0.56	-0.54	-0.06	0.83	6.20	6.48	16.72	17.00
5580MHz_TnomVnom	Pass	10.52	0.02	-0.00	0.45	0.18	6.11	6.48	16.63	17.00
5700MHz_TnomVnom	Pass	10.52	0.26	-0.31	0.20	0.41	6.12	6.48	16.64	17.00
5720MHz Straddle 5.47-5.725GHz_TnomVnom	Pass	10.52	0.08	-0.22	0.25	0.54	6.13	6.48	16.65	17.00
5720MHz Straddle 5.725-5.85GHz_TnomVnom	Pass	10.52	-2.51	-2.48	-2.75	-2.43	3.42	25.48	13.94	36.00
802.11ac VHT20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5260MHz_TnomVnom	Pass	10.52	0.66	-0.56	-0.48	1.17	6.15	6.48	16.67	17.00
5300MHz_TnomVnom	Pass	10.52	0.51	-0.65	-0.43	0.94	6.10	6.48	16.62	17.00
5320MHz_TnomVnom	Pass	10.52	0.23	-0.73	-0.38	0.87	6.03	6.48	16.55	17.00
5500MHz_TnomVnom	Pass	10.52	0.56	-0.59	-0.16	0.79	6.14	6.48	16.66	17.00
5580MHz_TnomVnom	Pass	10.52	-0.01	-0.05	0.45	0.15	6.06	6.48	16.58	17.00
5700MHz_TnomVnom	Pass	10.52	0.22	-0.40	0.12	0.30	6.06	6.48	16.58	17.00
5720MHz Straddle 5.47-5.725GHz_TnomVnom	Pass	10.52	0.08	-0.35	0.08	0.47	6.04	6.48	16.56	17.00
5720MHz Straddle 5.725-5.85GHz_TnomVnom	Pass	10.52	-2.24	-2.68	-2.41	-2.24	3.57	25.48	14.09	36.00
802.11ac VHT40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5270MHz_TnomVnom	Pass	10.52	0.96	-0.56	-0.36	1.40	6.41	6.48	16.93	17.00
5310MHz_TnomVnom	Pass	10.52	0.73	-0.48	-0.28	1.18	6.31	6.48	16.83	17.00
5510MHz_TnomVnom	Pass	10.52	-1.40	-1.81	-1.62	-1.61	4.33	6.48	14.85	17.00
5550MHz_TnomVnom	Pass	10.52	-0.16	-0.51	-1.15	-0.57	5.39	6.48	15.91	17.00
5670MHz_TnomVnom	Pass	10.52	0.72	-0.15	-0.14	-0.14	6.08	6.48	16.60	17.00
5710MHz Straddle 5.47-5.725GHz_TnomVnom	Pass	10.52	0.55	0.07	0.09	0.72	6.33	6.48	16.85	17.00
5710MHz Straddle 5.725-5.85GHz_TnomVnom	Pass	10.52	-3.69	-4.27	-4.37	-3.73	1.98	25.48	12.50	36.00
802.11ac VHT80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5290MHz_TnomVnom	Pass	10.52	-5.09	-6.03	-5.77	-6.12	0.17	6.48	10.69	17.00
5530MHz_TnomVnom	Pass	10.52	-5.81	-6.06	-6.58	-5.80	-0.05	6.48	10.47	17.00
5610MHz_TnomVnom	Pass	10.52	-1.24	-1.69	-1.93	-1.95	4.21	6.48	14.73	17.00
5690MHz Straddle 5.47-5.725GHz_TnomVnom	Pass	10.52	0.66	0.14	-0.19	0.20	6.09	6.48	16.61	17.00
5690MHz Straddle 5.725-5.85GHz_TnomVnom	Pass	10.52	-5.76	-5.90	-6.74	-4.74	0.21	25.48	10.73	36.00
802.11ac VHT80+80_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-
#5210MHz,5290MHz_TnomVnom	Pass	7.51	-5.71	-6.10			-2.89	15.49	4.62	23.00
5210MHz,#5290MHz_TnomVnom	Pass	7.51			-7.65	-9.92	-5.75	9.49	1.76	17.00
#5530MHz,#5610MHz_TnomVnom	Pass	10.52	-6.34	-6.50	-8.39	-10.67	-3.54	6.48	6.98	17.00

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 Xpower density;

802.11a_Nss1,(6Mbps)_4TX **PSD**

5260MHz

18/10/2018

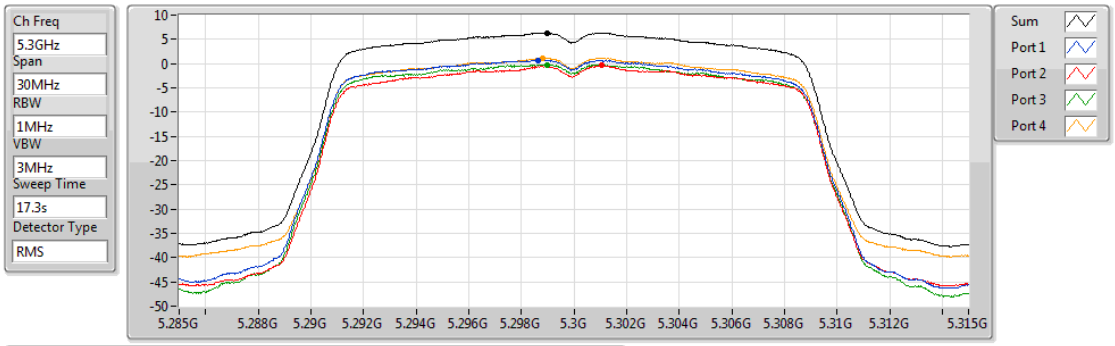


Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
6.46	6.46	0.92	-0.22	-0.26	1.40

802.11a_Nss1,(6Mbps)_4TX **PSD**

5300MHz

18/10/2018

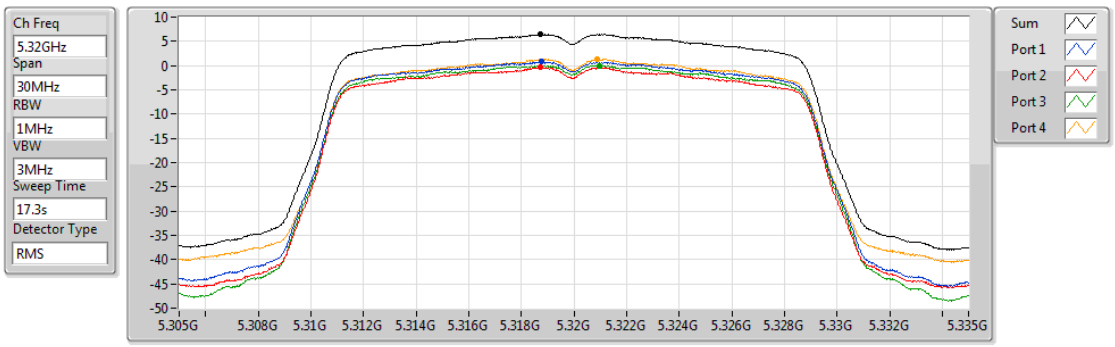


Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
6.34	6.34	0.73	-0.42	-0.21	1.18

802.11a_Nss1,(6Mbps)_4TX **PSD**

5320MHz

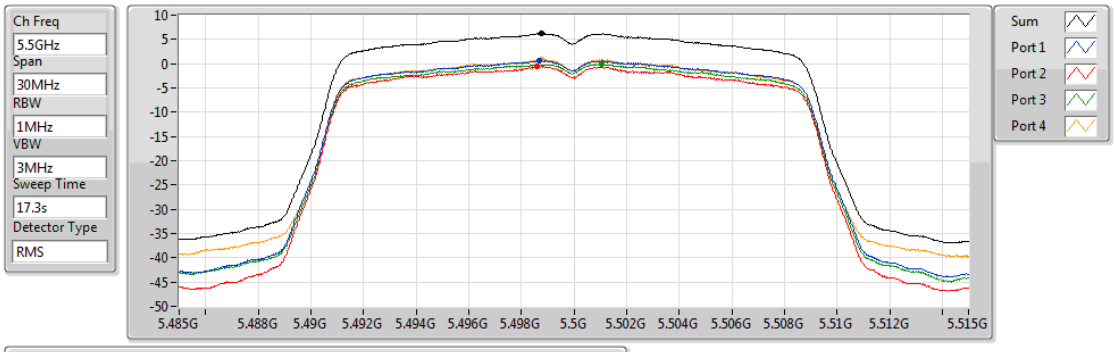
18/10/2018



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
6.44	6.44	0.75	-0.35	0.01	1.38

802.11a_Nss1,(6Mbps)_4TX **PSD**

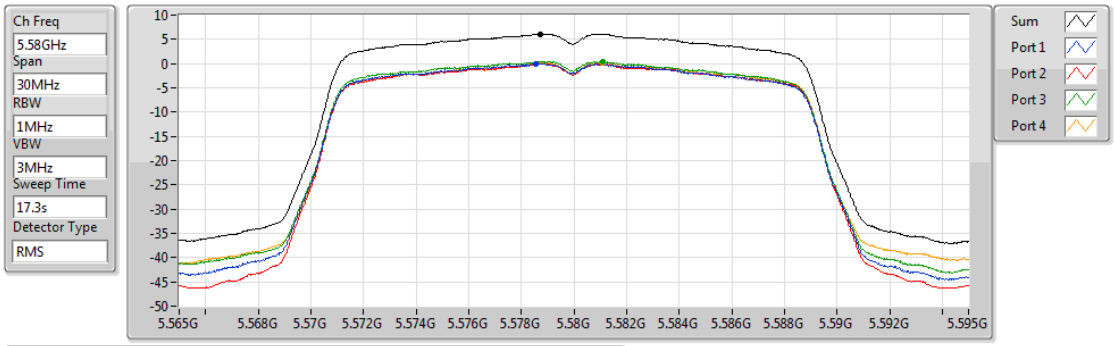
5500MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
6.20	6.20	0.56	-0.54	-0.06	0.83

802.11a_Nss1,(6Mbps)_4TX **PSD**

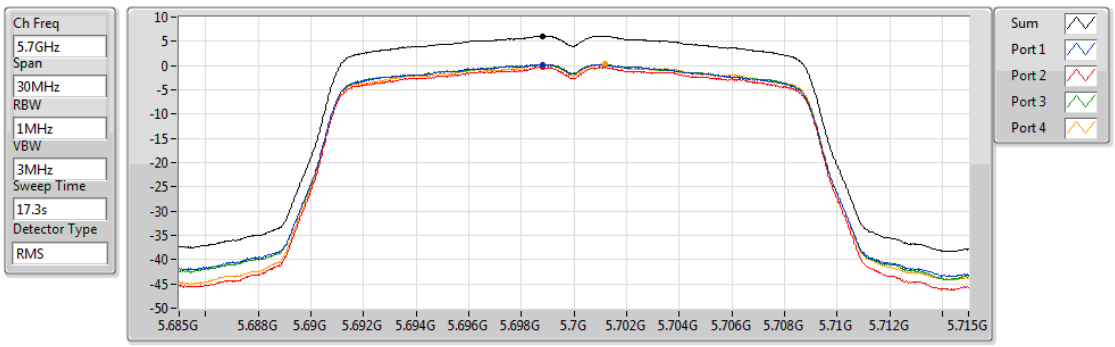
5580MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
6.11	6.11	0.02	-0.00	0.45	0.18

802.11a_Nss1,(6Mbps)_4TX **PSD**

5700MHz

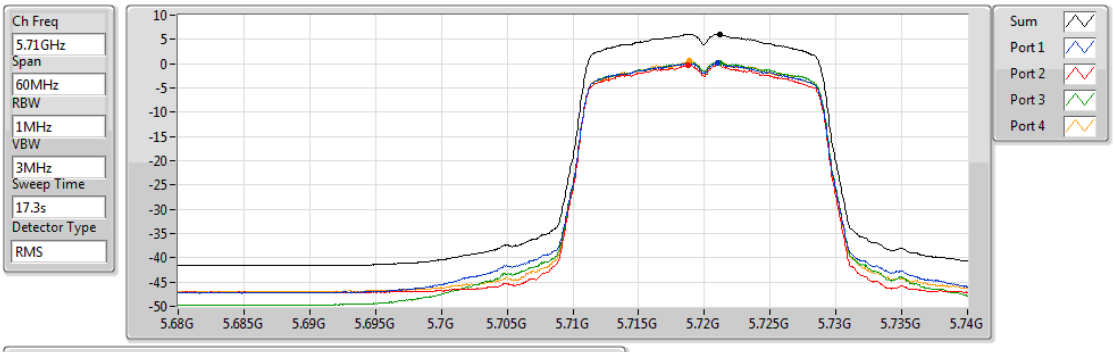


Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
6.12	6.12	0.26	-0.31	0.20	0.41

802.11a_Nss1,(6Mbps)_4TX **PSD**

5720MHz Straddle 5.47-5.725GHz

18/10/2018

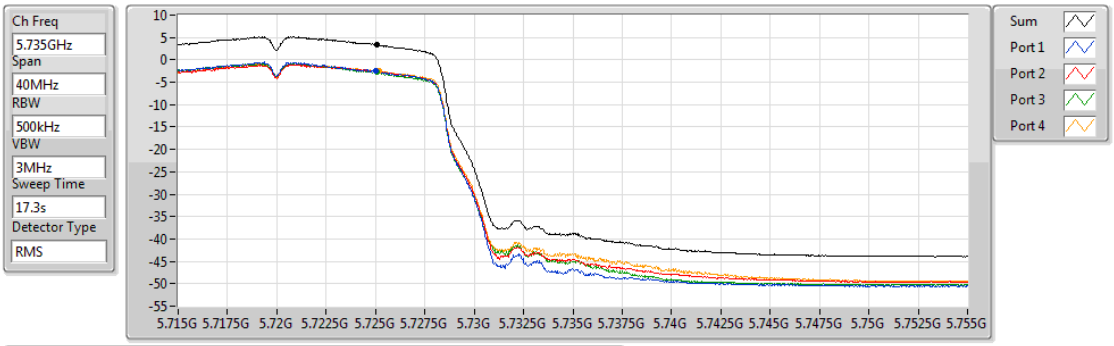


Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
6.13	6.13	0.08	-0.22	0.25	0.54

802.11a_Nss1,(6Mbps)_4TX **PSD**

5720MHz Straddle 5.725-5.85GHz

14/03/2018

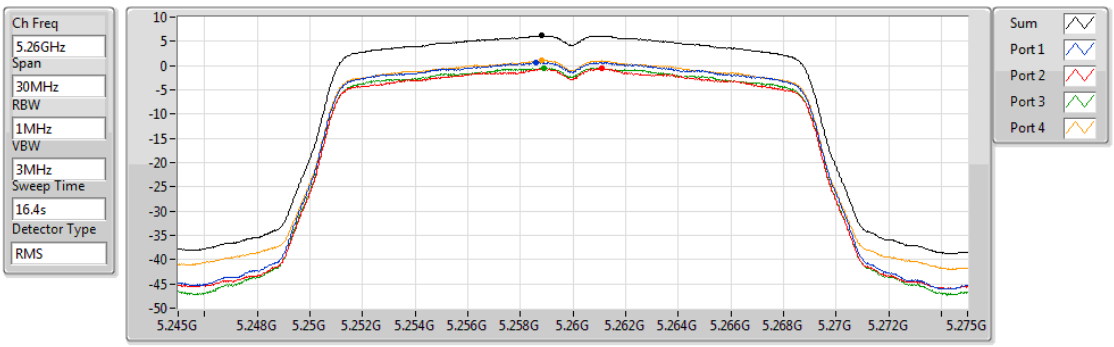


Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
3.42	3.42	-2.51	-2.48	-2.75	-2.43

802.11ac VHT20_Nss1,(MCS0)_4TX **PSD**

5260MHz

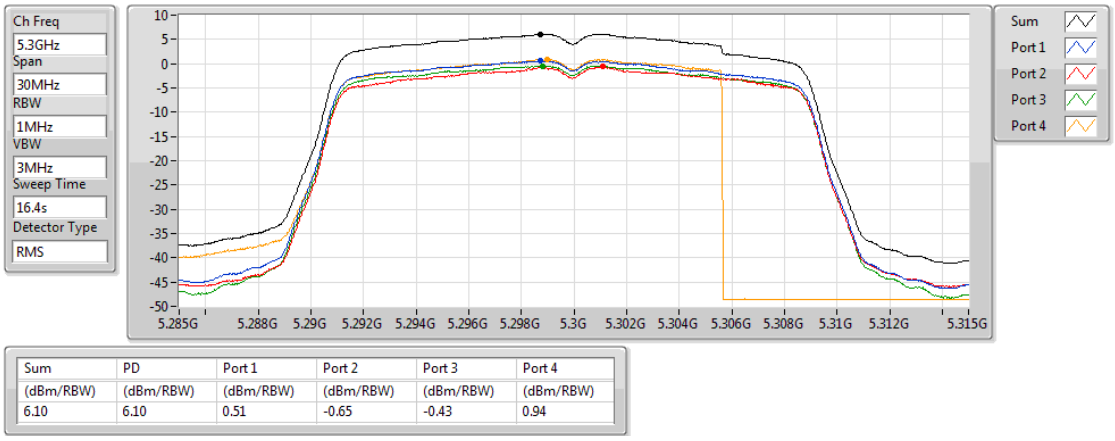
18/10/2018



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
6.15	6.15	0.66	-0.56	-0.48	1.17

802.11ac VHT20_Nss1,(MCS0)_4TX PSD

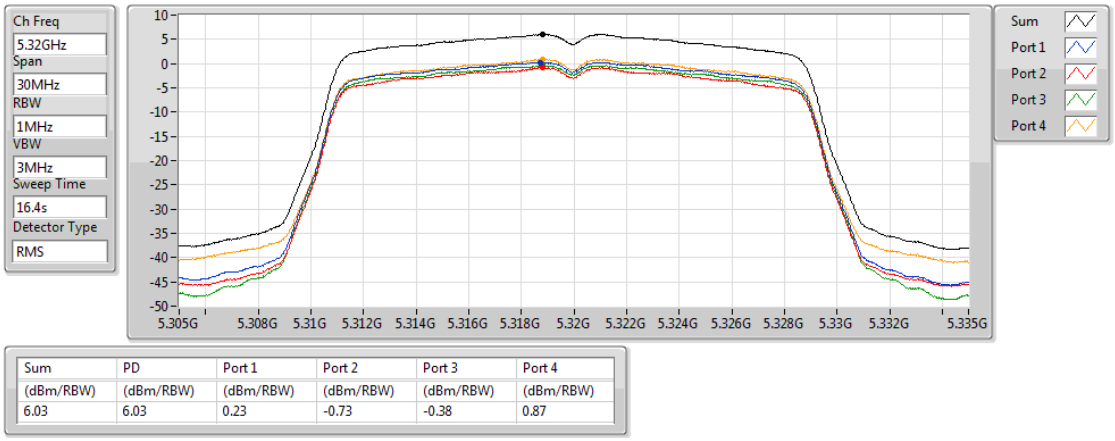
5300MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
6.10	6.10	0.51	-0.65	-0.43	0.94

802.11ac VHT20_Nss1,(MCS0)_4TX PSD

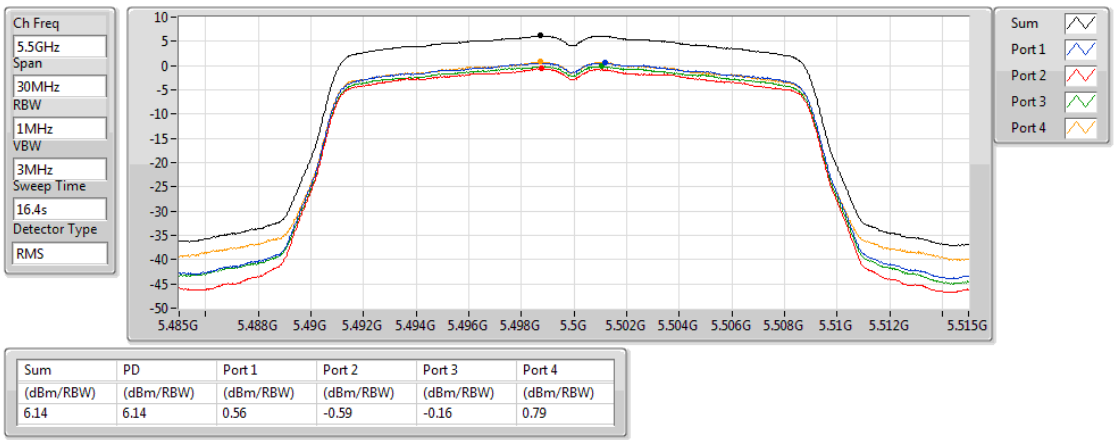
5320MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
6.03	6.03	0.23	-0.73	-0.38	0.87

802.11ac VHT20_Nss1,(MCS0)_4TX PSD

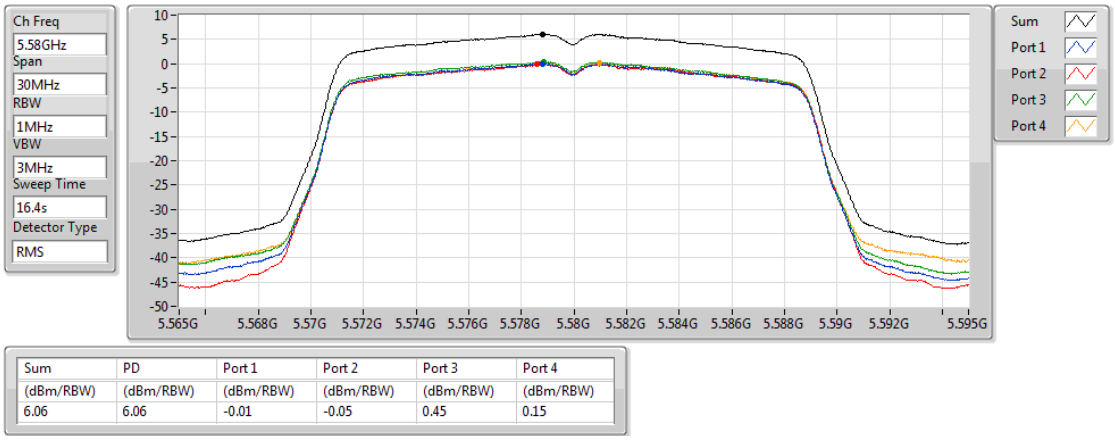
5500MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
6.14	6.14	0.56	-0.59	-0.16	0.79

802.11ac VHT20_Nss1,(MCS0)_4TX PSD

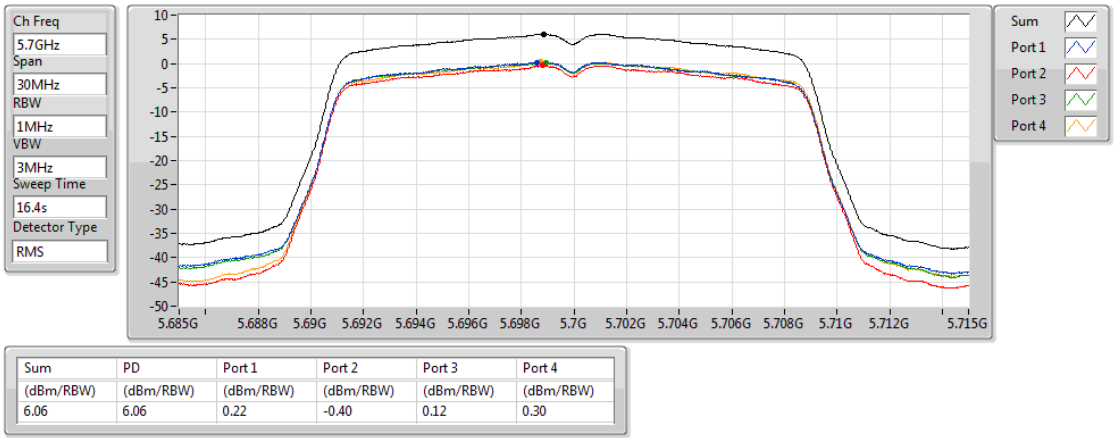
5580MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
6.06	6.06	-0.01	-0.05	0.45	0.15

802.11ac VHT20_Nss1,(MCS0)_4TX PSD

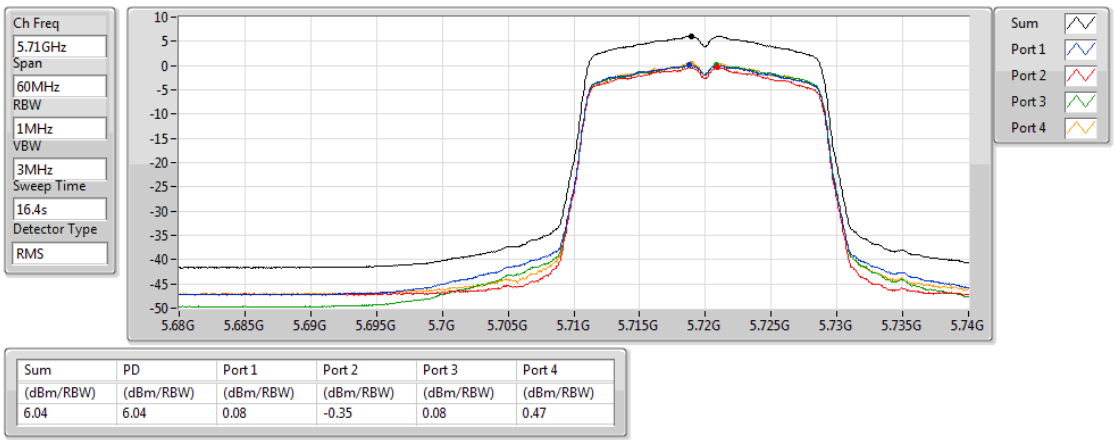
5700MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
6.06	6.06	0.22	-0.40	0.12	0.30

802.11ac VHT20_Nss1,(MCS0)_4TX PSD

5720MHz Straddle 5.47-5.725GHz

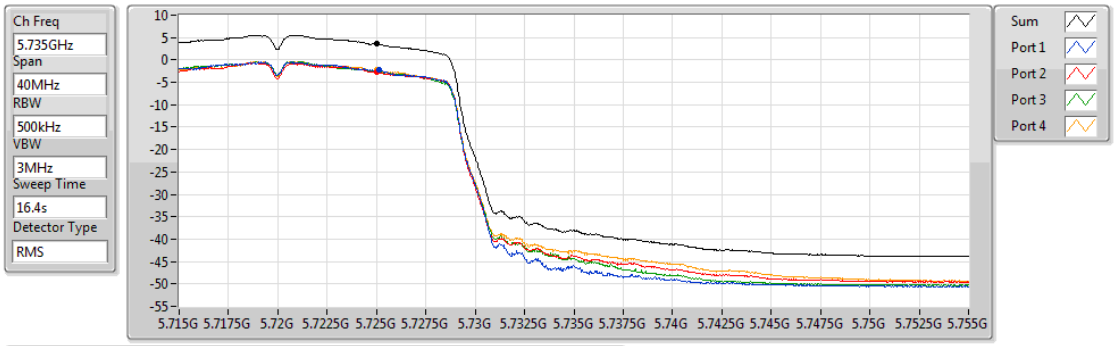


Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
6.04	6.04	0.08	-0.35	0.08	0.47

802.11ac VHT20_Nss1,(MCS0)_4TX PSD

5720MHz Straddle 5.725-5.85GHz

14/03/2018

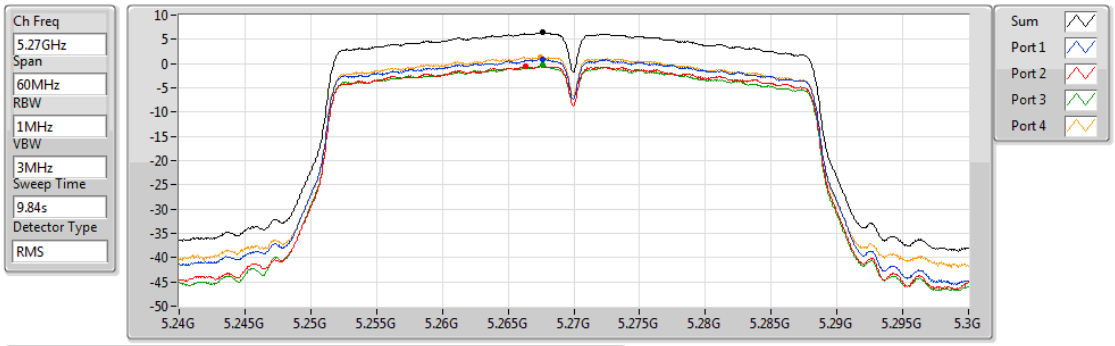


Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
3.57	3.57	-2.24	-2.68	-2.41	-2.24

802.11ac VHT40_Nss1,(MCS0)_4TX PSD

5270MHz

18/10/2018

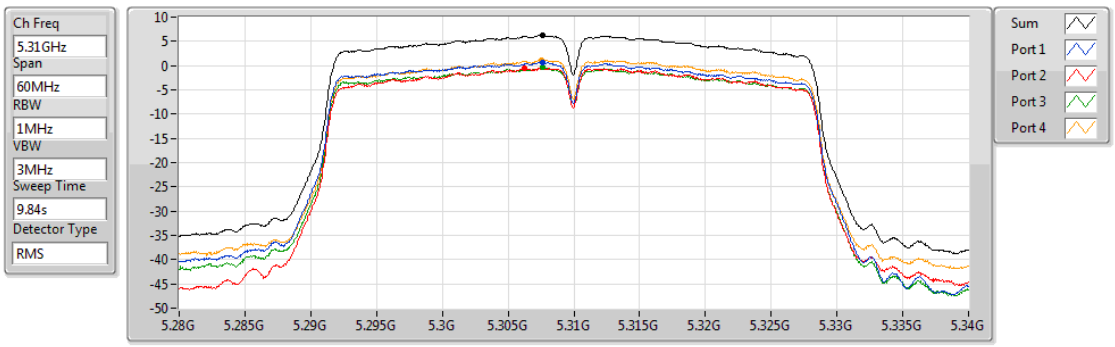


Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
6.41	6.41	0.96	-0.56	-0.36	1.40

802.11ac VHT40_Nss1,(MCS0)_4TX PSD

5310MHz

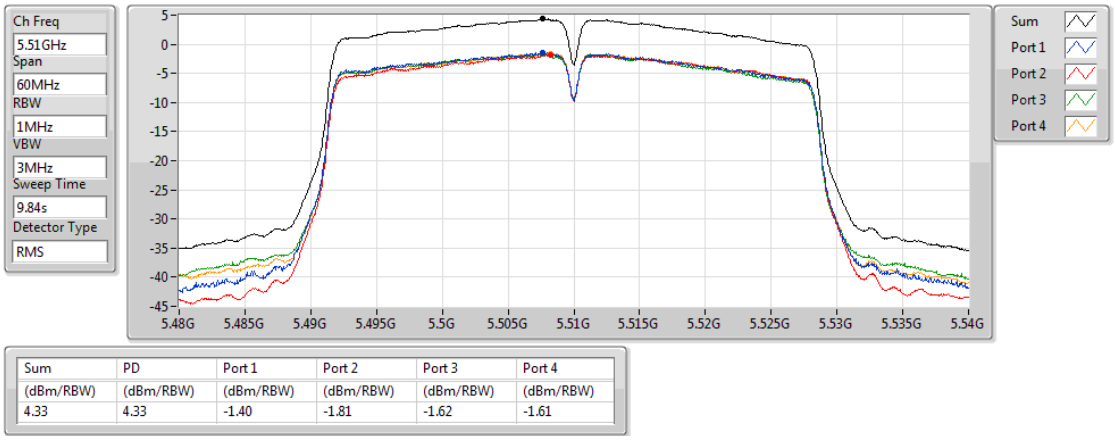
18/10/2018



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
6.31	6.31	0.73	-0.48	-0.28	1.18

802.11ac VHT40_Nss1,(MCS0)_4TX **PSD**

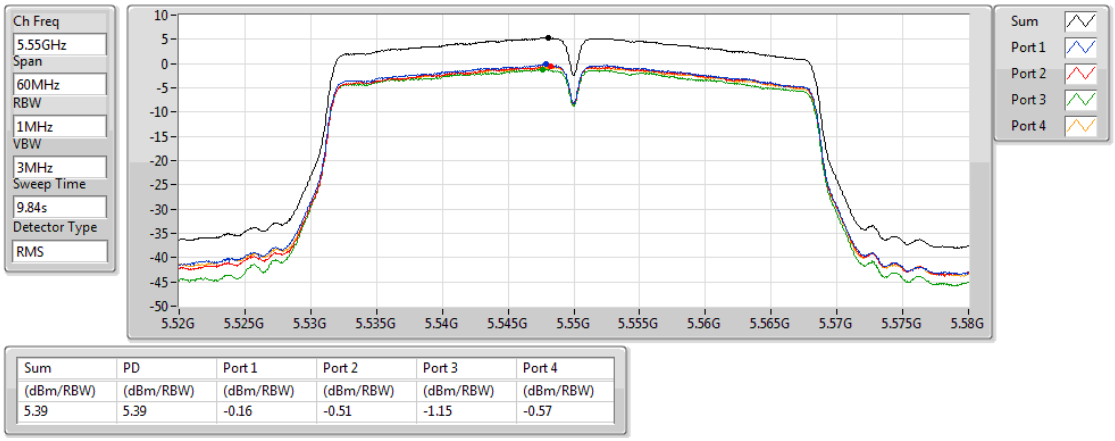
5510MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
4.33	4.33	-1.40	-1.81	-1.62	-1.61

802.11ac VHT40_Nss1,(MCS0)_4TX **PSD**

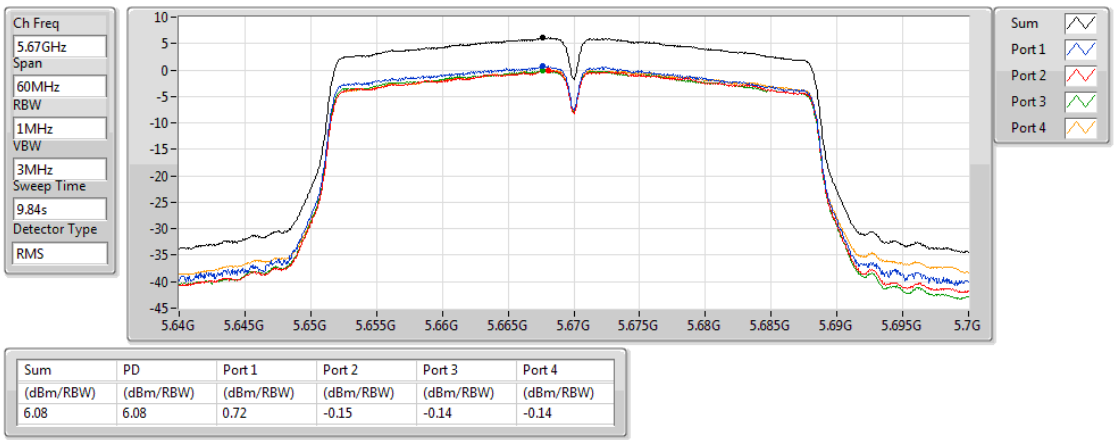
5550MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
5.39	5.39	-0.16	-0.51	-1.15	-0.57

802.11ac VHT40_Nss1,(MCS0)_4TX **PSD**

5670MHz

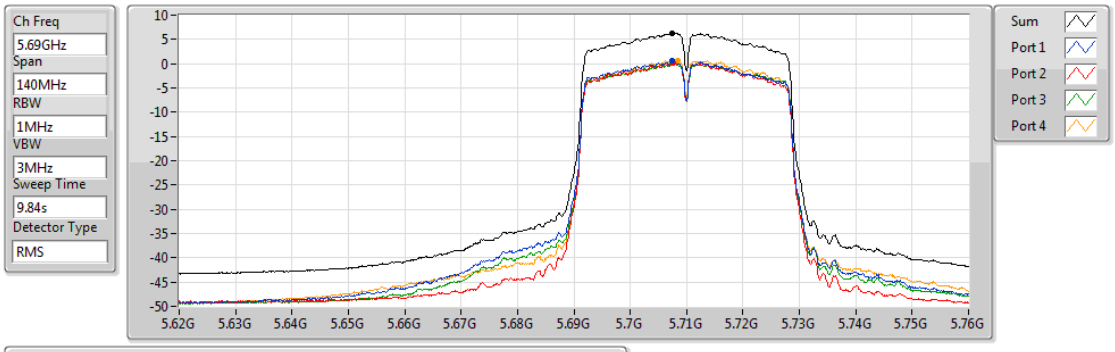


Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
6.08	6.08	0.72	-0.15	-0.14	-0.14

802.11ac VHT40_Nss1,(MCS0)_4TX **PSD**

5710MHz Straddle 5.47-5.725GHz

18/10/2018

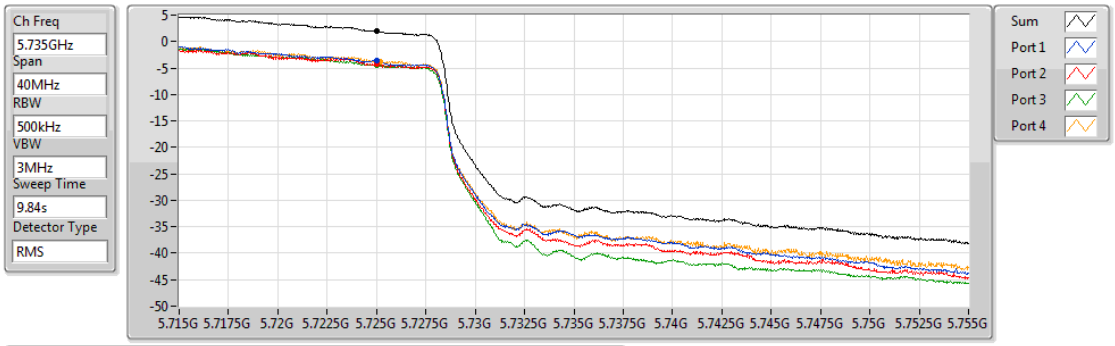


Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
6.33	6.33	0.55	0.07	0.09	0.72

802.11ac VHT40_Nss1,(MCS0)_4TX **PSD**

5710MHz Straddle 5.725-5.85GHz

14/03/2018

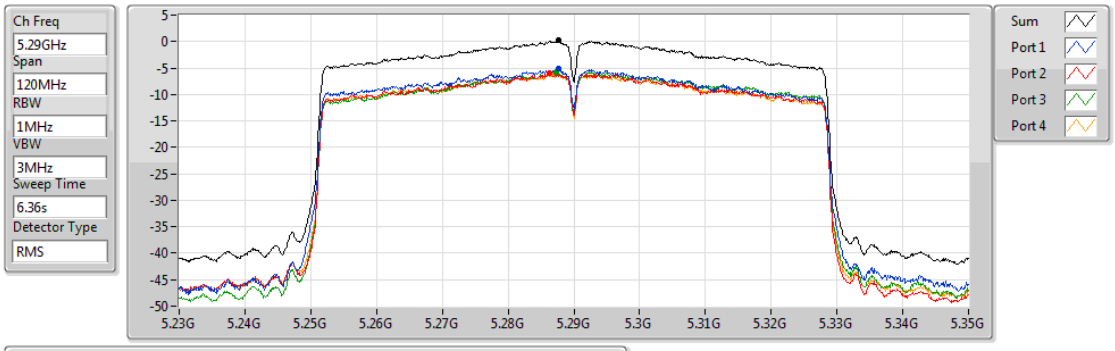


Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
1.98	1.98	-3.69	-4.27	-4.37	-3.73

802.11ac VHT80_Nss1,(MCS0)_4TX **PSD**

5290MHz

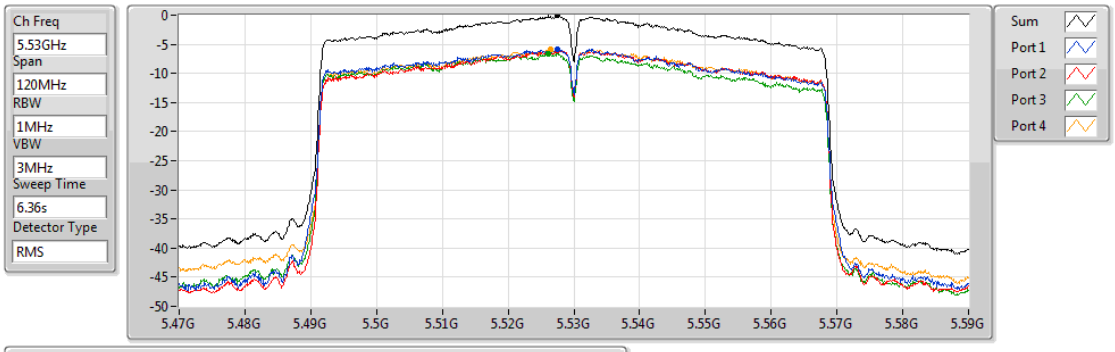
14/03/2018



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
0.17	0.17	-5.09	-6.03	-5.77	-6.12

802.11ac VHT80_Nss1,(MCS0)_4TX PSD

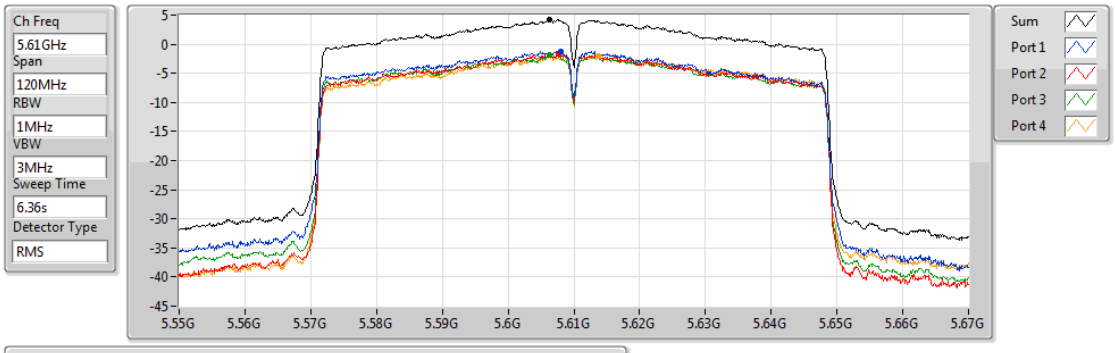
5530MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-0.05	-0.05	-5.81	-6.06	-6.58	-5.80

802.11ac VHT80_Nss1,(MCS0)_4TX PSD

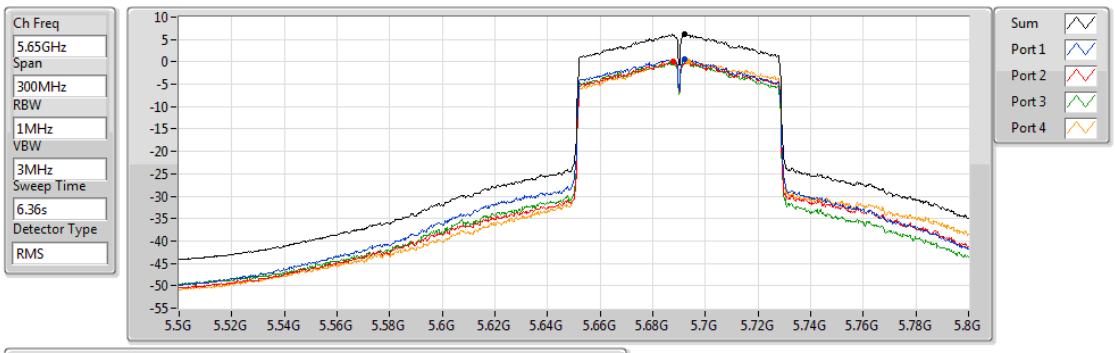
5610MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
4.21	4.21	-1.24	-1.69	-1.93	-1.95

802.11ac VHT80_Nss1,(MCS0)_4TX PSD

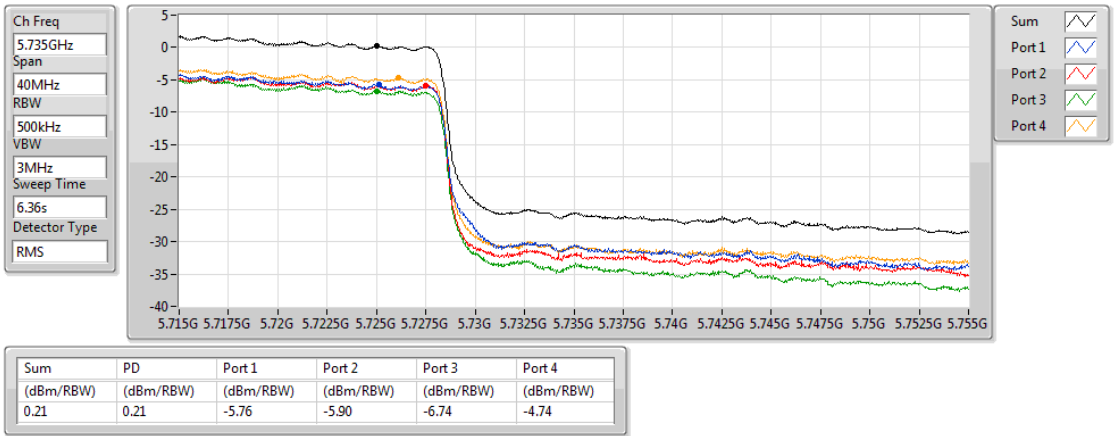
5690MHz Straddle 5.47-5.725GHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
6.09	6.09	0.66	0.14	-0.19	0.20

802.11ac VHT80_Nss1,(MCS0)_4TX PSD

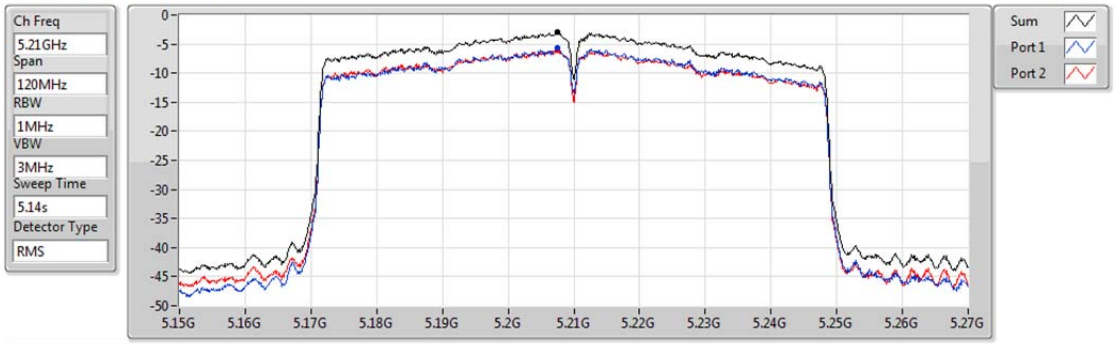
5690MHz Straddle 5.725-5.85GHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
0.21	0.21	-5.76	-5.90	-6.74	-4.74

802.11ac VHT80+80_Nss2,(MCS0)_4TX PSD

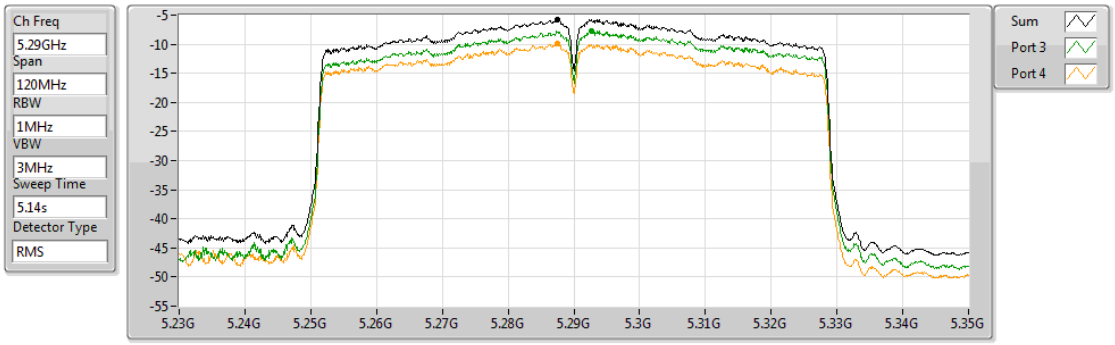
#5210MHz,5290MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-2.89	-2.89	-5.71	-6.10

802.11ac VHT80+80_Nss1,(MCS0)_2TX PSD

5210MHz,#5290MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-5.75	-5.75			-7.65	-9.92