

FCC Test Report

Equipment : DOCSIS Cable Gateway
Brand Name : Technicolor
Model No. : CGM4140COM, CGM4141COX
FCC ID : G95CGM414X
Standard : 47 CFR FCC Part 15.407
Operating Band : 5150 MHz – 5250 MHz
5725 MHz – 5850 MHz
Applicant / Manufacturer : Technicolor Connected Home USA LLC
5030 Sugarloaf Parkway, Building 6, Lawrenceville,
Georgia, United States, 30044
Function : ☐ Outdoor; ☒ Indoor; ☐ Fixed P2P
☐ Client

This report was evaluated for permissive change. The product sample received on Nov. 30, 2017 and completely tested on Nov. 17, 2017. We, SPORTON, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown compliance with the applicable technical standards.

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


Phoenix Chen / Assistant Manager





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Summary of Test Result

Conformance Test Specifications			
Report Clause	Ref. Std. Clause	Description	Result
1.1.2	15.203	Antenna Requirement	Complied
3.1	15.407(a)	Emission Bandwidth	Complied
3.2	15.407(a)	Maximum Conducted Output Power	Complied
3.3	15.407(a)	Peak Power Spectral Density	Complied



Report No. : FR732723-06AN

[illegible]

1 General Description

1.1 Information

1.1.1 RF General Information

Frequency Range (MHz)	IEEE Std. 802.11	Ch. Frequency (MHz)	Channel Number
5.15-5.25GHz	a, n (HT20), ac (VHT20)	5180-5240	36-48 [4]
5.725-5.85GHz		5745-5825	149-165 [5]
5.15-5.25GHz	n (HT40), ac (VHT40)	5190-5230	38-46 [2]
5.725-5.85GHz		5755-5795	151-159 [2]
5.15-5.25GHz	ac (VHT80)	5210	42 [1]
5.725-5.85GHz		5775	155 [1]

Non-Beamforming - NSS1

Band	Mode	BWch (MHz)	Nant
5.15-5.25GHz	802.11a	20	8TX
5.725-5.85GHz	802.11a	20	8TX
5.15-5.25GHz	802.11ac VHT20	20	8TX
5.725-5.85GHz	802.11ac VHT20	20	8TX
5.15-5.25GHz	802.11ac VHT40	40	8TX
5.725-5.85GHz	802.11ac VHT40	40	8TX
5.15-5.25GHz	802.11ac VHT80	80	8TX
5.725-5.85GHz	802.11ac VHT80	80	8TX

Non-Beamforming – NSS2

Band	Mode	BWch (MHz)	Nant
5.15-5.25GHz	802.11ac VHT20	20	8TX
5.725-5.85GHz	802.11ac VHT20	20	8TX
5.15-5.25GHz	802.11ac VHT40	40	8TX
5.725-5.85GHz	802.11ac VHT40	40	8TX
5.15-5.25GHz	802.11ac VHT80	80	8TX
5.725-5.85GHz	802.11ac VHT80	80	8TX

Beamforming - NSS1

Band	Mode	BWch (MHz)	Nant
5.15-5.25GHz	802.11ac VHT20-BF	20	8TX
5.725-5.85GHz	802.11ac VHT20-BF	20	8TX
5.15-5.25GHz	802.11ac VHT40-BF	40	8TX
5.725-5.85GHz	802.11ac VHT40-BF	40	8TX
5.15-5.25GHz	802.11ac VHT80-BF	80	8TX
5.725-5.85GHz	802.11ac VHT80-BF	80	8TX

Beamforming – NSS2

Band	Mode	BWch (MHz)	Nant
5.15-5.25GHz	802.11ac VHT20-BF	20	8TX
5.725-5.85GHz	802.11ac VHT20-BF	20	8TX
5.15-5.25GHz	802.11ac VHT40-BF	40	8TX
5.725-5.85GHz	802.11ac VHT40-BF	40	8TX
5.15-5.25GHz	802.11ac VHT80-BF	80	8TX
5.725-5.85GHz	802.11ac VHT80-BF	80	8TX

Note:

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

1.1.2 Antenna Information

Antenna gain list for non-BF Power with NSS2 20-MHz channel widths, BF power, PSD

Mode/ Directional gain(dBi)	5200MHz(Band1&2)	5500MHz(Band3)	5700MHz(Band4)
4TX 1/2/5/6	5.5	4.9	5.5
8T1S	7	6.6	7.5
8T2S	4	3.6	4.6

Antenna gain list for non-BF Power except NSS2 20-MHz channel widths

Mode/ Directional gain(dBi)	5200MHz(Band1&2)	5500MHz(Band3)	5700MHz(Band4)
1&2	3.20	2.64	2.50
5&6	3.40	2.45	3.20
3&4	1.50	2.63	2.50
7&8	3.50	2.82	3.40

Note:

- ♦ The Signals support CDD and correlated, and transmits simultaneously in multiple channels in single or multiple frequency bands.
- ♦ If all antennas have the same gain, G_{ANT} :
Directional gain = $G_{ANT} + 10 \log(N_{ANT}/N_{SS})$ dBi, where N_{SS} = the number of independent spatial streams of data and G_{ANT} is the antenna gain in dBi. (This formula can also be applied when antennas have different gains if the highest antenna gain is substituted for G_{ANT} .)
- ♦ For power measurements on IEEE 802.11 devices,
Array Gain = 0 dB (i.e., no array gain) for $N_{ANT} \leq 4$;
Array Gain = 0 dB (i.e., no array gain) for channel widths ≥ 40 MHz for any N_{ANT} ;
Array Gain = $5 \log(N_{ANT}/N_{SS})$ dB or 3 dB, whichever is less, for 20-MHz channel widths with $N_{ANT} \geq 5$.
- ♦ Customer declared that the gain of non-BF Power with NSS2 20-MHz channel widths was follow the 8T2S as above form.

1.1.3 EUT Information

Identify EUT			
SW / HW	N/A		
Operational Condition			
EUT Power Type	From AC Adapter		
Beamforming Function	☒ With beamforming	☐ Without beamforming	
Type of EUT			
☒	Stand-alone		
☐	Combined (EUT where the radio part is fully integrated within another device)		
	Combined Equipment - Brand Name / Model No.:	...	
☐	Plug-in radio (EUT intended for a variety of host systems)		
	Host System - Brand Name / Model No.:	...	
☐	Other:		

1.1.4 Mode Test Duty Cycle
Non-Beamforming - NSS1

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq 1/T$
802.11a	0.989	0.048	n/a (DC $\geq$ 0.98)	n/a (DC $\geq$ 0.98)
802.11ac VHT20	0.99	0.044	n/a (DC $\geq$ 0.98)	n/a (DC $\geq$ 0.98)
802.11ac VHT40	0.981	0.083	n/a (DC $\geq$ 0.98)	n/a (DC $\geq$ 0.98)
802.11ac VHT80	0.944	0.25	1.142m	1k

Non-Beamforming – NSS2

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq 1/T$
802.11ac VHT20	0.983	0.074	n/a (DC $\geq$ 0.98)	n/a (DC $\geq$ 0.98)
802.11ac VHT40	0.967	0.146	1.24m	1k
802.11ac VHT80	0.932	0.306	600u	3k

Beamforming - NSS1

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq 1/T$
802.11ac VHT20-BF	0.872	0.595	3.458m	300
802.11ac VHT40-BF	0.832	0.799	1.687m	1k
802.11ac VHT80-BF	0.916	0.381	3.062m	1k

Beamforming - NSS2

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq 1/T$
802.11ac VHT20-BF	0.988	0.052	n/a (DC $\geq$ 0.98)	n/a (DC $\geq$ 0.98)
802.11ac VHT40-BF	0.982	0.079	n/a (DC $\geq$ 0.98)	n/a (DC $\geq$ 0.98)
802.11ac VHT80-BF	0.961	0.173	1.145m	1k

1.1.5 Table for Permissive Change

This product is an extension of original one reported under Sporton project number: FR732723AN

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

Modifications	Performance Checking
Sample is identical and re-calculation the directional gain.	Emission Bandwidth Maximum Conducted Output Power Peak Power Spectral Density

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 v02
- ♦ 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
RF Conducted <Non-Beamforming>	TH01-HY	Tim	22.1°C / 65%	17/Nov/2017
RF Conducted <Beamforming>	TH01-HY	Ryan	24.8°C / 65%	17/Nov/2017

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%

2 Test Configuration of EUT

2.1 Test Condition

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

2.2 Test Channel Mode

Test Software	Dos
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Non-Beamforming – NSS1

Mode	Power Setting
802.11a_Nss1,(6Mbps)_8TX	-
5180MHz	21,21
5200MHz	21,21
5240MHz	21,21
5745MHz	22,22
5785MHz	22,22
5825MHz	22,22
802.11ac VHT20_Nss1,(MCS0)_8TX	-
5180MHz	20,20
5200MHz	21,21
5240MHz	21,21
5745MHz	22,22
5785MHz	22,22
5825MHz	22,22
802.11ac VHT40_Nss1,(MCS0)_8TX	-
5190MHz	17,17
5230MHz	21,21
5755MHz	21,21
5795MHz	21,21
802.11ac VHT80_Nss1,(MCS0)_8TX	-
5210MHz	18,18
5775MHz	21,21

**Non-Beamforming – NSS2**

Mode	Power Setting
802.11ac VHT20_Nss2,(MCS0)_8TX	-
5180MHz	22,22
5200MHz	22,22
5240MHz	22,22
5745MHz	22,22
5785MHz	22,22
5825MHz	22,22
802.11ac VHT40_Nss2,(MCS0)_8TX	-
5190MHz	18,18
5230MHz	21,21
5755MHz	22,22
5795MHz	22,22
802.11ac VHT80_Nss2,(MCS0)_8TX	-
5210MHz	18,18
5775MHz	22,22



Test Software	putty , iperf
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Beamforming – NSS1

Mode	Power Setting
802.11ac VHT20-BF_Nss1,(MCS0)_8TX	-
5180MHz	20,20
5200MHz	20,20
5240MHz	20,20
5745MHz	19,20
5785MHz	21,21
5825MHz	21,21
802.11ac VHT40-BF_Nss1,(MCS0)_8TX	-
5190MHz	20,20
5230MHz	20,20
5755MHz	20,20
5795MHz	20,20
802.11ac VHT80-BF_Nss1,(MCS0)_8TX	-
5210MHz	21,21
5775MHz	21,21

Beamforming – NSS2

Mode	Power Setting
802.11ac VHT20-BF_Nss2,(MCS0)_8TX	-
5180MHz	21/20
5200MHz	21/21
5240MHz	21/21
5745MHz	22/22
5785MHz	21/20
5825MHz	20/19
802.11ac VHT40-BF_Nss2,(MCS0)_8TX	-
5190MHz	21/21
5230MHz	21/21
5755MHz	22/21
5795MHz	21/22
802.11ac VHT80-BF_Nss2,(MCS0)_8TX	-
5210MHz	21/22
5775MHz	22/22

2.3 The Worst Case Measurement Configuration

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

2.4 Accessories

Accessories				
Power Cable	Power Cord	1.5 meter, non-shielded cable	In/Out door	indoor

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

2.5 Support Equipment

Support Equipment - RF Conducted < Non-Beamforming >				
No.	Equipment	Brand Name	Model Name	FCC ID
1	Notebook	DELL	E5410	Doc
2	Adapter for NB	DELL	HA65NM130	Doc

Support Equipment - RF Conducted < Beamforming >				
No.	Equipment	Brand Name	Model Name	FCC ID
1	Notebook	DELL	E5410	Doc
2	Adapter for NB	DELL	HA65NM130	Doc
3	Notebook	DELL	E5410	Doc
4	Adapter for NB	DELL	HA65NM130	Doc
5	client	-	-	-

Note: Support equipment No.5 was provided by customer.

3 Transmitter Test Result

3.1 Emission Bandwidth

3.1.1 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, the maximum conducted output power shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in MHz.
☐	For the 5.47-5.725 GHz band, the maximum conducted output power shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in MHz.
☒	For the 5.725-5.85 GHz band, 6 dB emission bandwidth $\geq$ 500kHz.

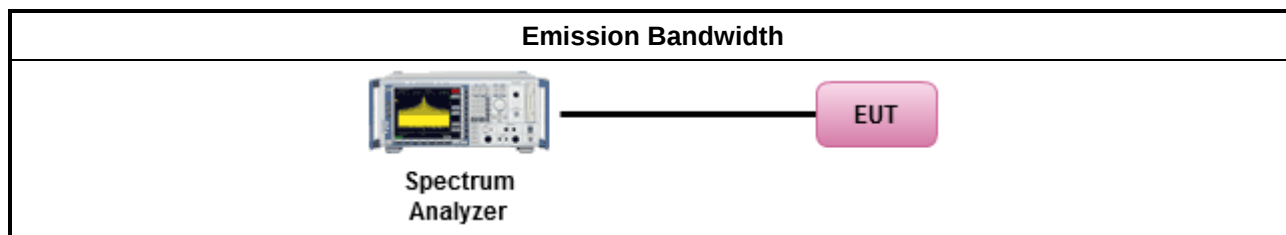
3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

Test Method	
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 6.6 for bandwidth testing.

3.1.4 Test Setup



3.1.5 Test Result of Emission Bandwidth

Refer as Appendix A

3.2 Maximum Conducted Output Power

3.2.1 Maximum Conducted Output Power Limit

Maximum Conducted Output Power Limit	
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.	

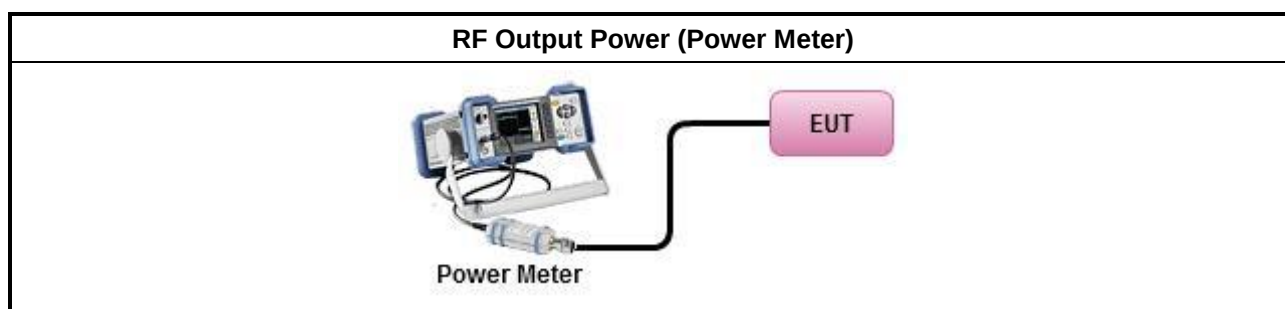
3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

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

3.2.4 Test Setup



3.2.5 Test Result of Maximum Conducted Output Power

Refer as Appendix B

3.3 Peak Power Spectral Density

3.3.1 Peak Power Spectral Density Limit

Peak Power Spectral Density Limit	
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.	

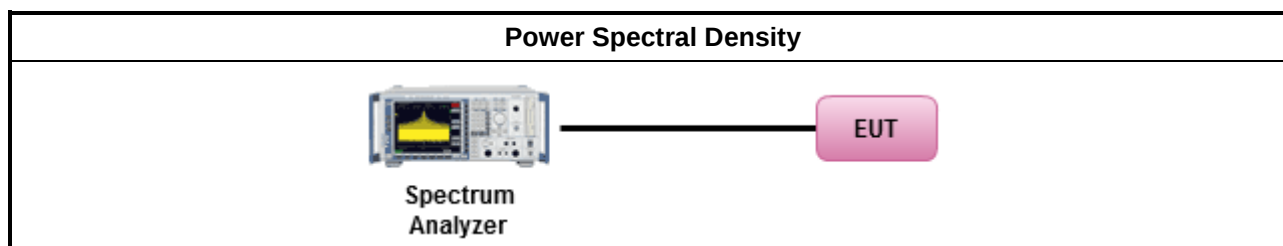
3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

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

3.3.4 Test Setup



3.3.5 Test Result of Peak Power Spectral Density

Refer as Appendix C

4 Test Equipment and Calibration Data

Instrument for Conducted Test

Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
Spectrum Analyzer	R&S	FSV 40	101013	9kHz~40GHz	30/Dec/2016	29/Dec/2017
Signal Generator	R&S	SMR40	100116	10MHz ~ 40GHz	27/Jul/2017	26/Jul/2018
Power Sensor	Anritsu	MA2411B	0917017	300MHz ~ 40GHz	10/Feb/2017	09/Feb/2018
Power Meter	Anritsu	ML2495A	0949003	300MHz ~ 40GHz	10/Feb/2017	09/Feb/2018
RF Cable-0.2m	HUBER+SUHNER	SUCOFLEX_104	MY10709/4	30MHz ~ 26.5GHz	25/Aug/2017	24/Aug/2018
RF Cable-0.2m	HUBER+SUHNER	SUCOFLEX_104	MY10712/4	30MHz ~ 26.5GHz	25/Aug/2017	24/Aug/2018
RF Cable-0.5m	HUBER+SUHNER	SUCOFLEX_104	MY10713/4	30MHz ~ 26.5GHz	25/Aug/2017	24/Aug/2018
RF Cable-1.5m	HUBER+SUHNER	SUCOFLEX_104	MY12583/4	30MHz ~ 26.5GHz	25/Aug/2017	24/Aug/2018



Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.15-5.25GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_8TX	27.575M	16.692M	16M7D1D	22.3M	16.542M
802.11ac VHT20_Nss1,(MCS0)_8TX	26.15M	17.866M	17M9D1D	24.3M	17.766M
802.11ac VHT40_Nss1,(MCS0)_8TX	67.3M	36.332M	36M3D1D	42.35M	36.032M
802.11ac VHT80_Nss1,(MCS0)_8TX	88.3M	75.862M	75M9D1D	86.3M	75.462M
5.725-5.85GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_8TX	16.35M	16.867M	16M9D1D	15.65M	16.442M
802.11ac VHT20_Nss1,(MCS0)_8TX	17.725M	18.041M	18M0D1D	16.575M	17.716M
802.11ac VHT40_Nss1,(MCS0)_8TX	36.35M	36.532M	36M5D1D	35.55M	36.182M
802.11ac VHT80_Nss1,(MCS0)_8TX	75.6M	75.962M	76M0D1D	71.3M	75.462M

Max-N dB = Maximum 6dB down bandwidth for UNII-3 band / Maximum 26dB down bandwidth for other band; Max-OBW = Maximum 99% occupied bandwidth;
Min-N dB = Minimum 6dB down bandwidth for UNII-3 band / Maximum 26dB down bandwidth for other band; Min-OBW = Minimum 99% occupied bandwidth;



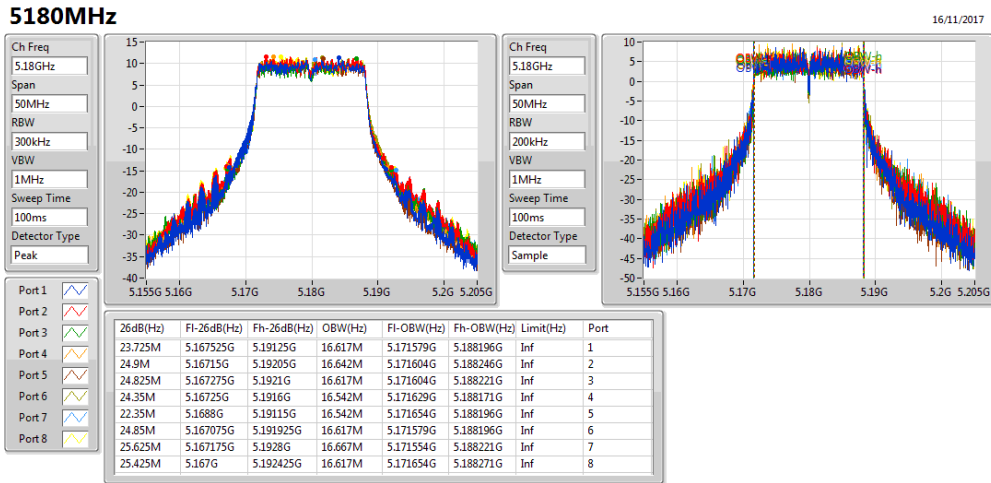
Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)	Port 3-N dB (Hz)	Port 3-OBW (Hz)	Port 4-N dB (Hz)	Port 4-OBW (Hz)	Port 5-N dB (Hz)	Port 5-OBW (Hz)	Port 6-N dB (Hz)	Port 6-OBW (Hz)	Port 7-N dB (Hz)	Port 7-OBW (Hz)	Port 8-N dB (Hz)	Port 8-OBW (Hz)
802.11a_Nss1,(6Mbps)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	Inf	23.725M	16.617M	24.9M	16.642M	24.825M	16.617M	24.35M	16.542M	22.35M	16.542M	24.85M	16.617M	25.625M	16.667M	25.425M	16.617M
5200MHz	Pass	Inf	23.75M	16.642M	24.925M	16.642M	24.225M	16.692M	24.35M	16.567M	22.3M	16.667M	25.3M	16.592M	25.75M	16.542M	26.875M	16.567M
5240MHz	Pass	Inf	23.55M	16.642M	24.975M	16.667M	27.025M	16.667M	24.125M	16.592M	22.375M	16.617M	24.825M	16.567M	27.575M	16.567M	26.85M	16.542M
5745MHz	Pass	500k	16M	16.542M	16.025M	16.592M	16.325M	16.642M	16.35M	16.592M	16.35M	16.567M	16.325M	16.717M	15.925M	16.867M	15.875M	16.517M
5785MHz	Pass	500k	15.875M	16.542M	16.075M	16.542M	15.7M	16.467M	15.725M	16.467M	16.3M	16.492M	16.025M	16.592M	16.025M	16.592M	15.65M	16.442M
5825MHz	Pass	500k	16.325M	16.567M	16M	16.667M	16.225M	16.617M	16.3M	16.642M	16.325M	16.517M	16.3M	16.692M	15.7M	16.692M	16.3M	16.542M
802.11ac_VHT20_Nss1,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	Inf	24.3M	17.791M	25.525M	17.816M	25.45M	17.791M	24.95M	17.791M	24.55M	17.766M	24.575M	17.841M	25.075M	17.816M	24.425M	17.791M
5200MHz	Pass	Inf	24.375M	17.766M	25.2M	17.841M	26M	17.816M	25M	17.816M	24.55M	17.766M	24.5M	17.841M	25.575M	17.766M	24.45M	17.866M
5240MHz	Pass	Inf	24.3M	17.766M	25.65M	17.816M	26.15M	17.816M	24.675M	17.791M	24.65M	17.841M	24.375M	17.816M	25.475M	17.791M	24.5M	17.841M
5745MHz	Pass	500k	17.575M	17.866M	17.575M	17.841M	17.575M	17.866M	16.925M	17.791M	17.575M	17.766M	17.6M	17.791M	17.6M	18.041M	17.6M	17.816M
5785MHz	Pass	500k	17.2M	17.741M	17.55M	17.766M	17.25M	17.716M	17.65M	17.741M	17.175M	17.766M	17.575M	17.766M	17.55M	17.791M	16.575M	17.716M
5825MHz	Pass	500k	17.575M	17.816M	17.6M	17.816M	17.55M	17.816M	17.525M	17.741M	17.725M	17.816M	17.65M	17.766M	17.6M	17.916M	17.55M	17.716M
802.11ac_VHT40_Nss1,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	Inf	42.35M	36.232M	42.65M	36.282M	42.45M	36.282M	42.7M	36.332M	42.35M	36.182M	42.55M	36.182M	42.5M	36.232M	42.55M	36.032M
5230MHz	Pass	Inf	45.45M	36.232M	43.55M	36.332M	58.35M	36.332M	42.65M	36.332M	42.75M	36.282M	45.7M	36.182M	67.3M	36.332M	47.15M	36.232M
5755MHz	Pass	500k	35.85M	36.332M	36.3M	36.382M	36.3M	36.382M	36.35M	36.332M	36.35M	36.232M	36.3M	36.332M	36.35M	36.532M	35.55M	36.282M
5795MHz	Pass	500k	35.65M	36.182M	36.3M	36.282M	36.35M	36.232M	36.35M	36.282M	36.35M	36.282M	36.3M	36.232M	36M	36.482M	36.25M	36.332M
802.11ac_VHT80_Nss1,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	Inf	86.4M	75.562M	87.4M	75.862M	86.9M	75.462M	87.6M	75.662M	87.3M	75.662M	86.3M	75.662M	87.1M	75.662M	88.3M	75.662M
5775MHz	Pass	500k	74.2M	75.662M	71.3M	75.762M	74.2M	75.662M	72.3M	75.762M	75.6M	75.562M	74.4M	75.462M	73.2M	75.962M	75.2M	75.562M

Port X-N dB = Port X 6dB down bandwidth for UNII-3 band / 26dB down bandwidth for other band; Port X-OBW = Port X 99% occupied bandwidth;

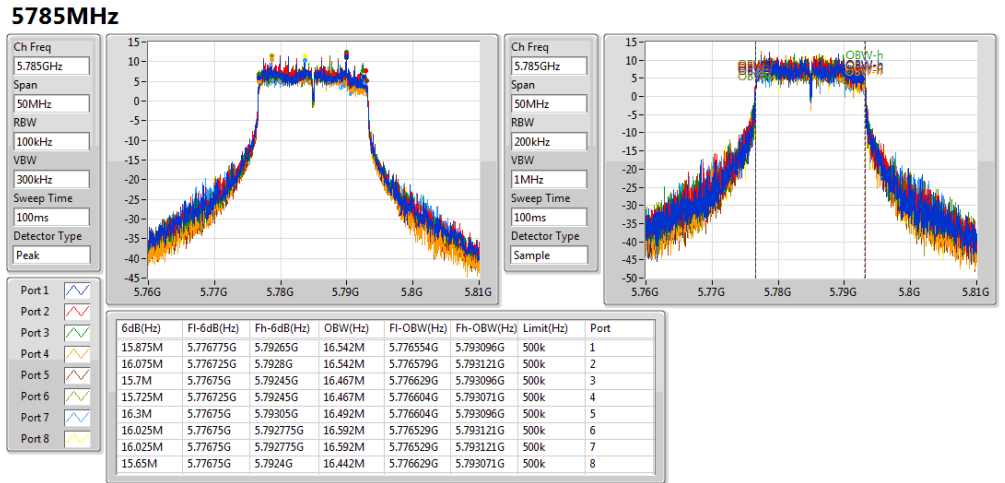
802.11a_Nss1,(6Mbps)_8TX

EBW



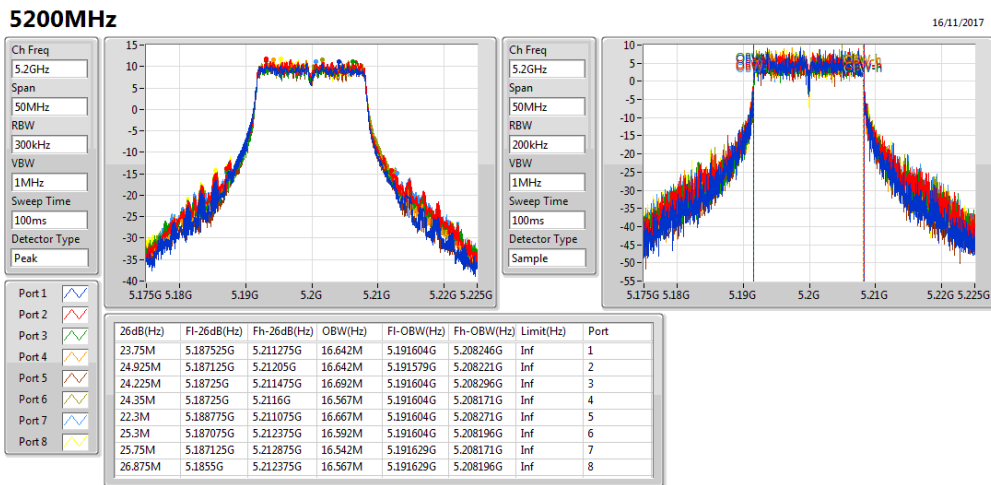
802.11a_Nss1,(6Mbps)_8TX

EBW



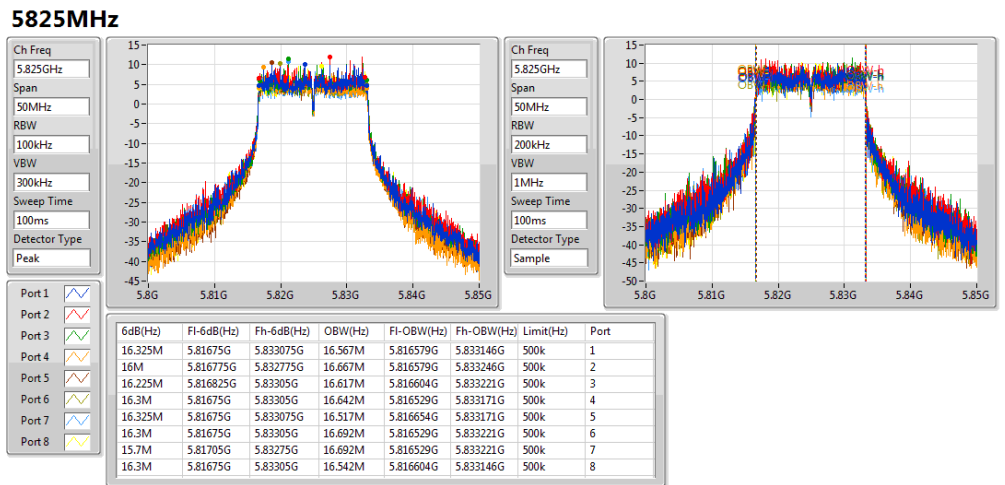
802.11a_Nss1,(6Mbps)_8TX

EBW



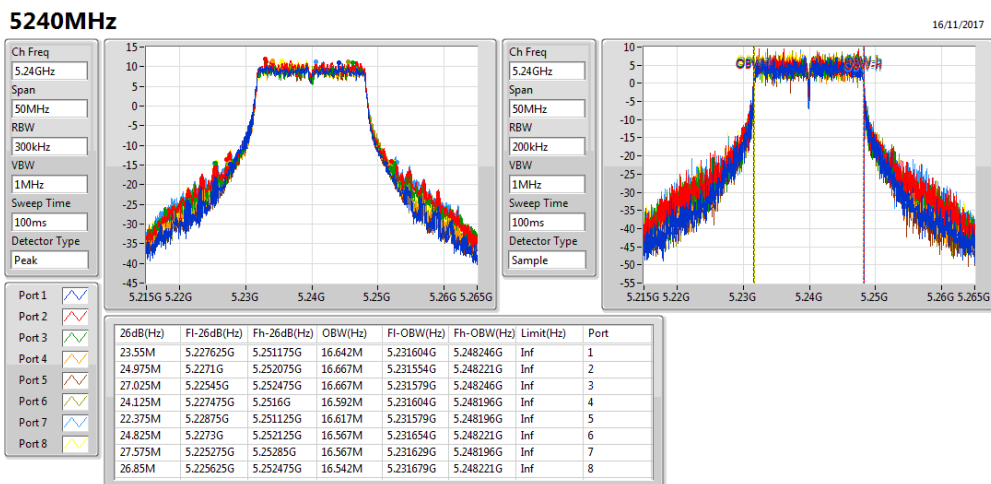
802.11a_Nss1,(6Mbps)_8TX

EBW



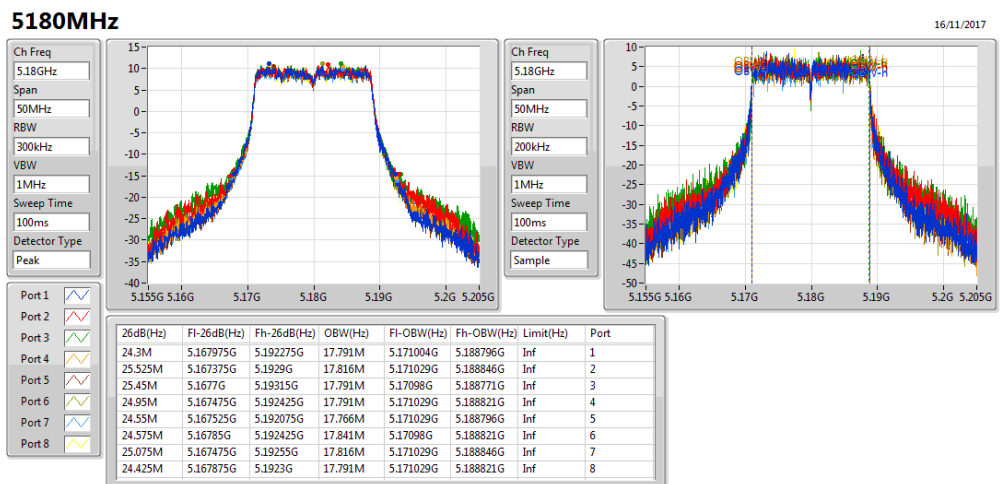
802.11a_Nss1,(6Mbps)_8TX

EBW



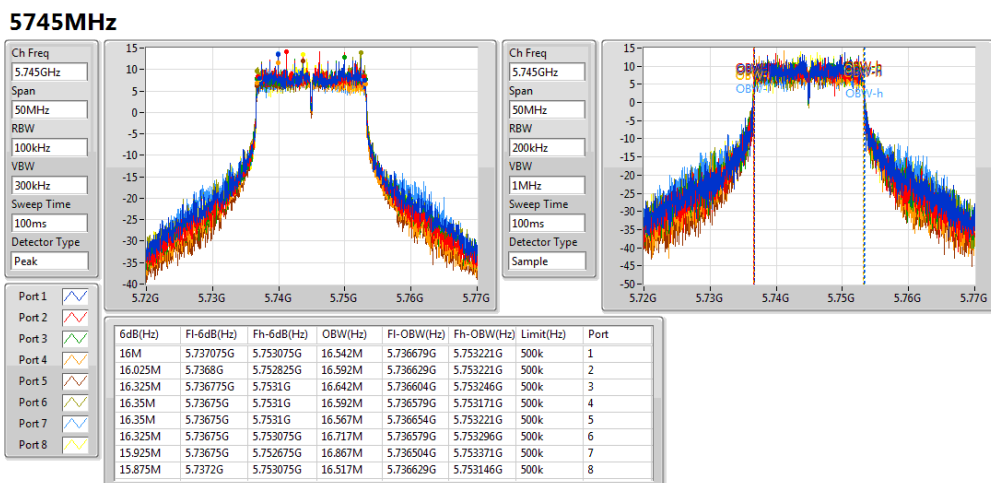
802.11ac VHT20_Nss1,(MCS0)_8TX

EBW



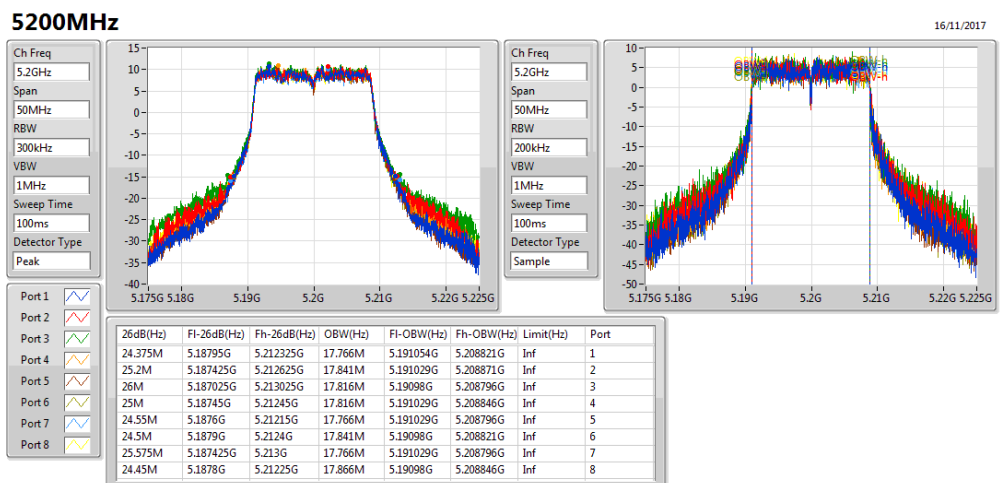
802.11a_Nss1,(6Mbps)_8TX

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802.11ac VHT20_Nss1,(MCS0)_8TX

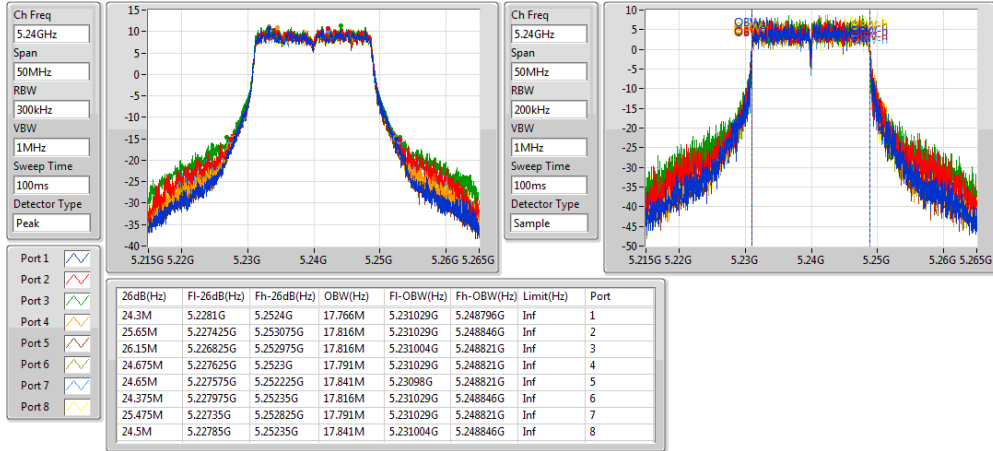
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802.11ac VHT20_Nss1,(MCS0)_8TX

EBW

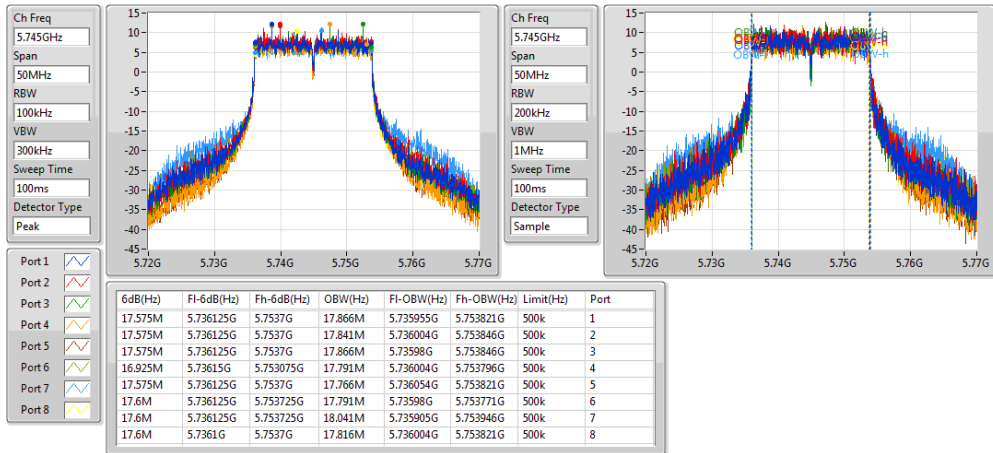
5240MHz



802.11ac VHT20_Nss1,(MCS0)_8TX

EBW

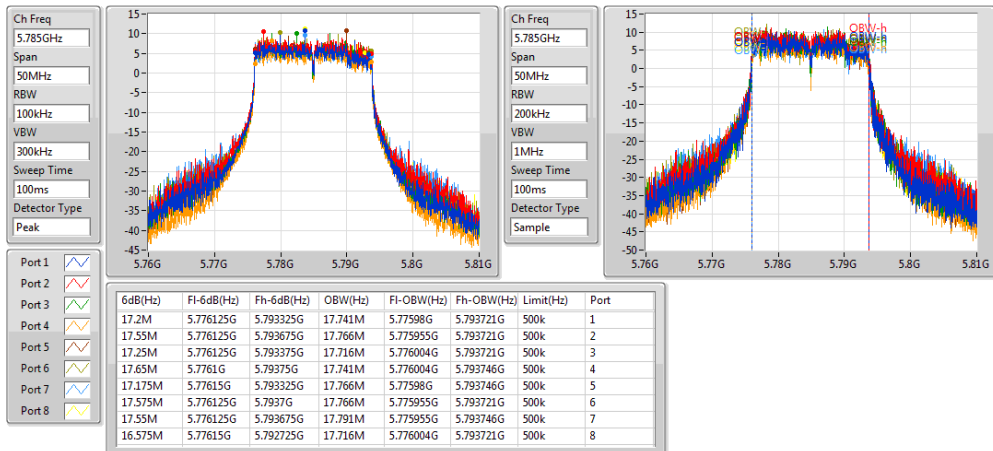
5745MHz



802.11ac VHT20_Nss1,(MCS0)_8TX

EBW

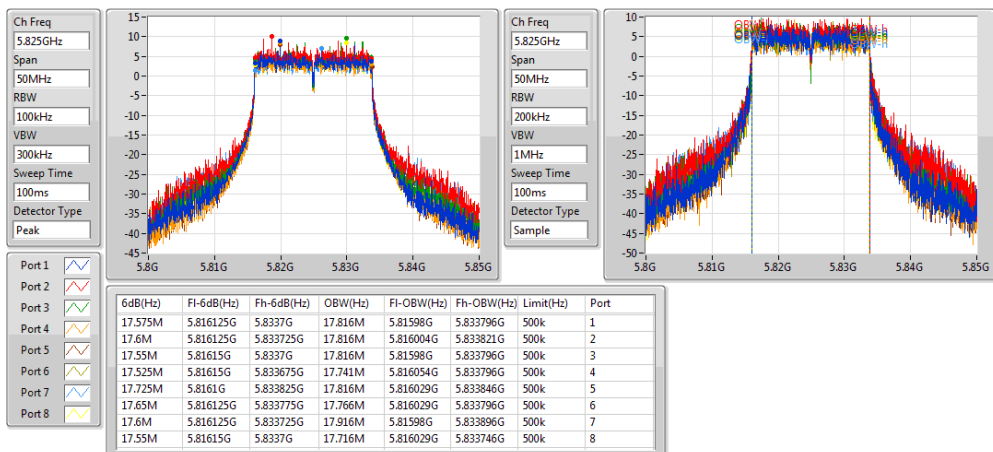
5785MHz



802.11ac VHT20_Nss1,(MCS0)_8TX

EBW

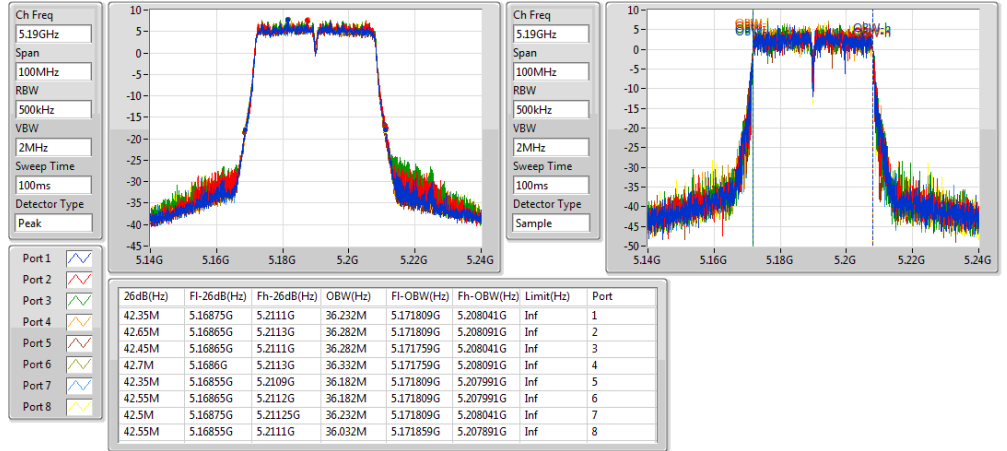
5825MHz



802.11ac VHT40_Nss1,(MCS0)_8TX

EBW

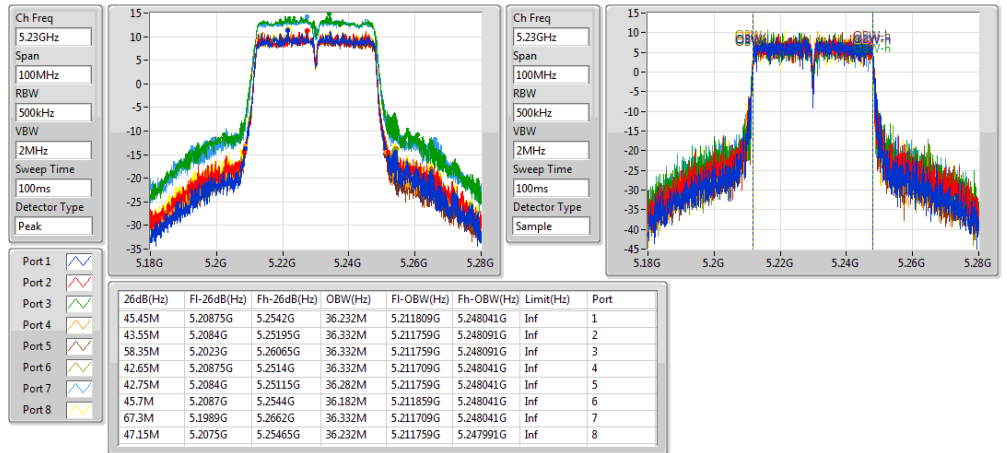
5190MHz



802.11ac VHT40_Nss1,(MCS0)_8TX

EBW

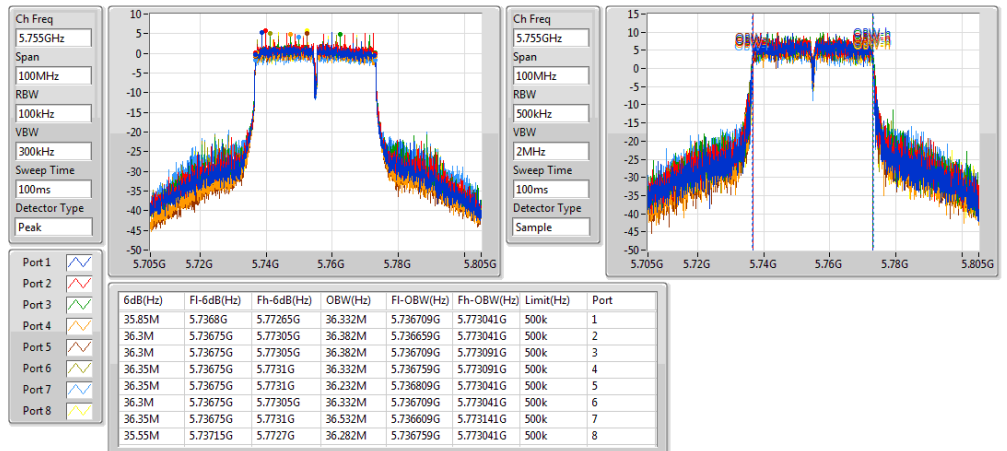
5230MHz



802.11ac VHT40_Nss1,(MCS0)_8TX

EBW

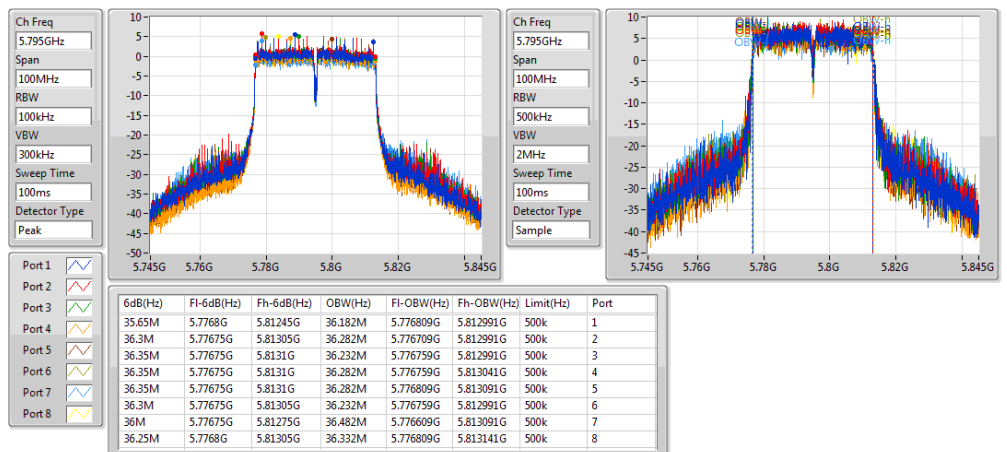
5755MHz



802.11ac VHT40_Nss1,(MCS0)_8TX

EBW

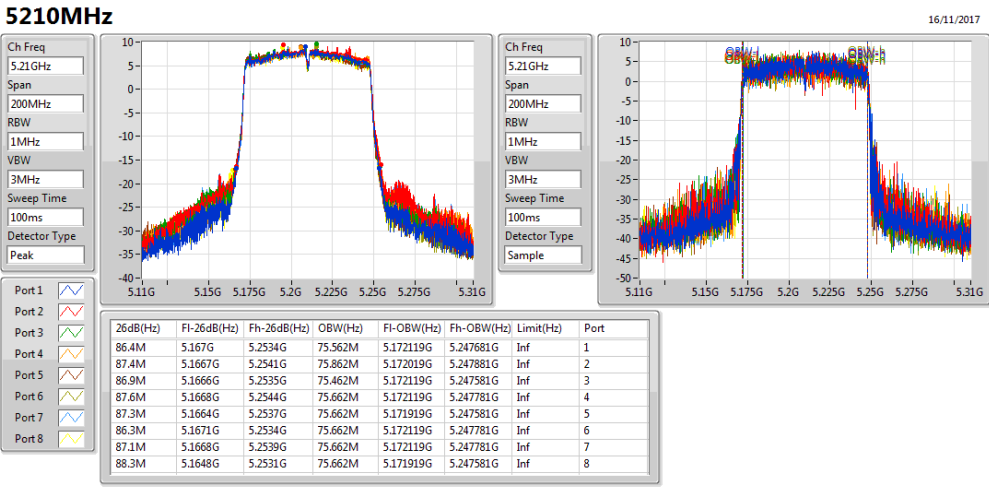
5795MHz





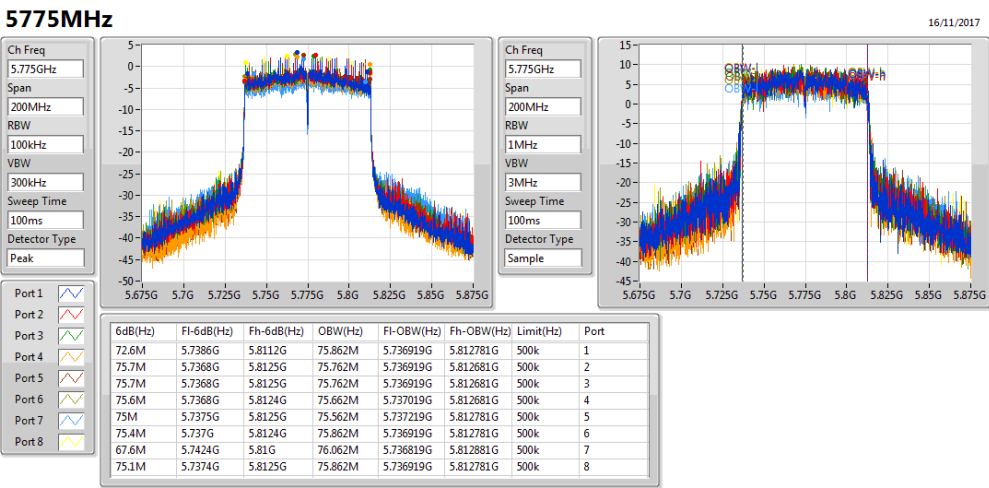
802.11ac VHT80_Nss1,(MCS0)_8TX

EBW



802.11ac VHT80_Nss1,(MCS0)_8TX

EBW





Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
802.11ac VHT20_Nss2,(MCS0)_8TX	-	-	-	-	-
5.15-5.25GHz	28M	18M	18M0D1D	24M	17.875M
5.725-5.85GHz	17.8M	18.475M	18M5D1D	17.55M	17.9M
802.11ac VHT40_Nss2,(MCS0)_8TX	-	-	-	-	-
5.15-5.25GHz	71.5M	36.75M	36M7D1D	42.85M	36.55M
5.725-5.85GHz	36.3M	37.05M	37M0D1D	35.65M	36.65M
802.11ac VHT80_Nss2,(MCS0)_8TX	-	-	-	-	-
5.15-5.25GHz	86.2M	75.8M	75M8D1D	84.9M	75.4M
5.725-5.85GHz	75.3M	76.1M	76M1D1D	70.6M	75.6M

Max-N dB = Maximum 6dB down bandwidth for UNII-3 band / Maximum 26dB down bandwidth for other band; **Max-OBW** = Maximum 99% occupied bandwidth;
Min-N dB = Minimum 6dB down bandwidth for UNII-3 band / Maximum 26dB down bandwidth for other band; **Min-OBW** = Minimum 99% occupied bandwidth;



Result

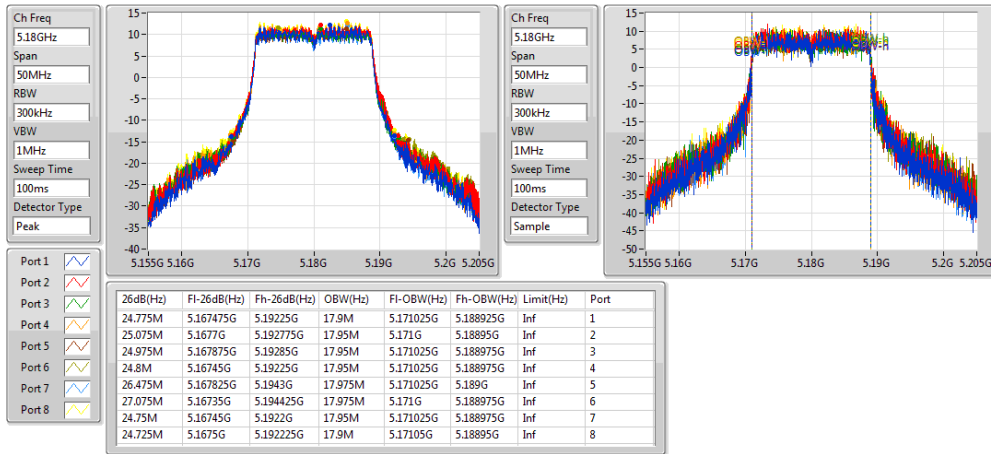
Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)	Port 3-N dB (Hz)	Port 3-OBW (Hz)	Port 4-N dB (Hz)	Port 4-OBW (Hz)	Port 5-N dB (Hz)	Port 5-OBW (Hz)	Port 6-N dB (Hz)	Port 6-OBW (Hz)	Port 7-N dB (Hz)	Port 7-OBW (Hz)	Port 8-N dB (Hz)	Port 8-OBW (Hz)
802.11ac VHT20_Nss2,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	Inf	24.775M	17.9M	25.075M	17.95M	24.975M	17.95M	24.8M	17.95M	26.475M	17.975M	27.075M	17.975M	24.75M	17.95M	24.725M	17.9M
5200MHz	Pass	Inf	24.275M	17.95M	24.225M	18M	25M	18M	24.825M	18M	24.975M	17.975M	28M	18M	24.75M	17.975M	24.575M	18M
5240MHz	Pass	Inf	24.725M	17.95M	24.5M	17.925M	24.35M	17.875M	24.4M	17.925M	24.475M	17.975M	24.925M	17.975M	24M	17.875M	24.825M	17.975M
5745MHz	Pass	500k	17.6M	17.925M	17.55M	18M	17.55M	17.925M	17.55M	17.925M	17.8M	18.025M	17.575M	18.475M	17.625M	17.9M	17.6M	17.975M
5785MHz	Pass	500k	17.575M	18.05M	17.6M	17.925M	17.575M	18.075M	17.6M	18M	17.575M	17.95M	17.575M	18.3M	17.65M	17.95M	17.625M	17.925M
5825MHz	Pass	500k	17.575M	17.975M	17.575M	18M	17.575M	17.925M	17.7M	18M	17.575M	17.9M	17.575M	18.25M	17.575M	17.925M	17.575M	17.925M
802.11ac VHT40_Nss2,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	Inf	42.9M	36.6M	43.8M	36.55M	43.65M	36.6M	42.85M	36.55M	43.9M	36.55M	43.7M	36.55M	42.95M	36.55M	42.95M	36.6M
5230MHz	Pass	Inf	47M	36.75M	59.65M	36.7M	50.3M	36.7M	44.65M	36.65M	51.3M	36.65M	71.5M	36.7M	43.15M	36.7M	44.85M	36.65M
5755MHz	Pass	500k	35.7M	36.9M	36.3M	36.75M	36.3M	36.7M	36.3M	36.65M	36.05M	36.75M	36M	37.05M	35.7M	36.7M	35.7M	36.7M
5795MHz	Pass	500k	35.95M	36.85M	36.3M	36.75M	36.3M	36.75M	36.3M	36.8M	36M	36.65M	35.65M	37M	35.7M	36.75M	36.3M	36.85M
802.11ac VHT80_Nss2,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	Inf	85.7M	75.6M	85.9M	75.4M	86.1M	75.7M	85.2M	75.8M	85.8M	75.6M	86.2M	75.7M	85.2M	75.8M	84.9M	75.7M
5775MHz	Pass	500k	70.6M	75.8M	75M	75.7M	75.3M	75.6M	75.2M	75.6M	75.3M	75.6M	72.7M	76.1M	73.1M	75.8M	75M	75.8M

Port X-N dB = Port X 6dB down bandwidth for UNII-3 band / 26dB down bandwidth for other band; Port X-OBW = Port X 99% occupied bandwidth;

802.11ac VHT20_Nss2,(MCS0)_8TX

EBW

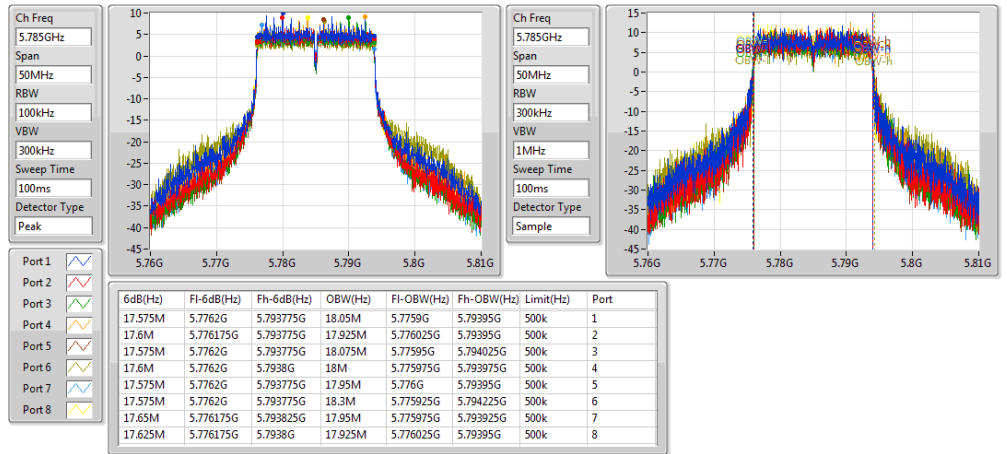
5180MHz



802.11ac VHT20_Nss2,(MCS0)_8TX

EBW

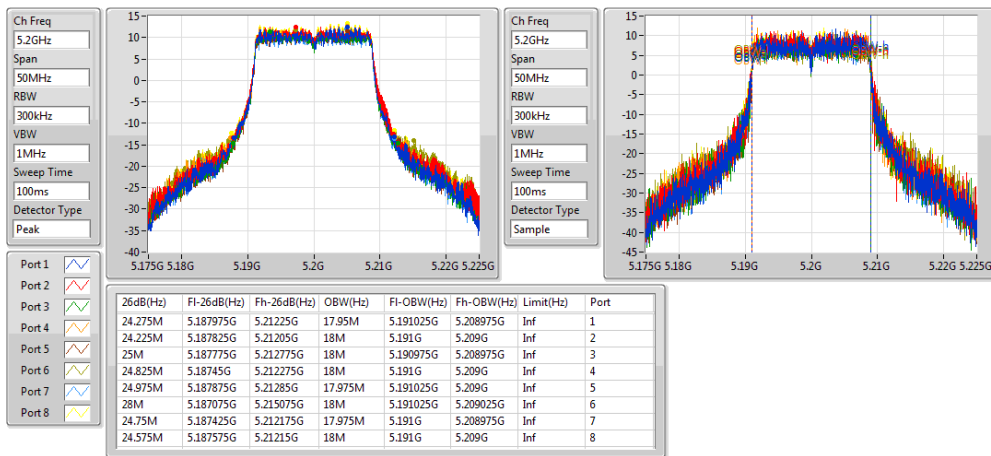
5785MHz



802.11ac VHT20_Nss2,(MCS0)_8TX

EBW

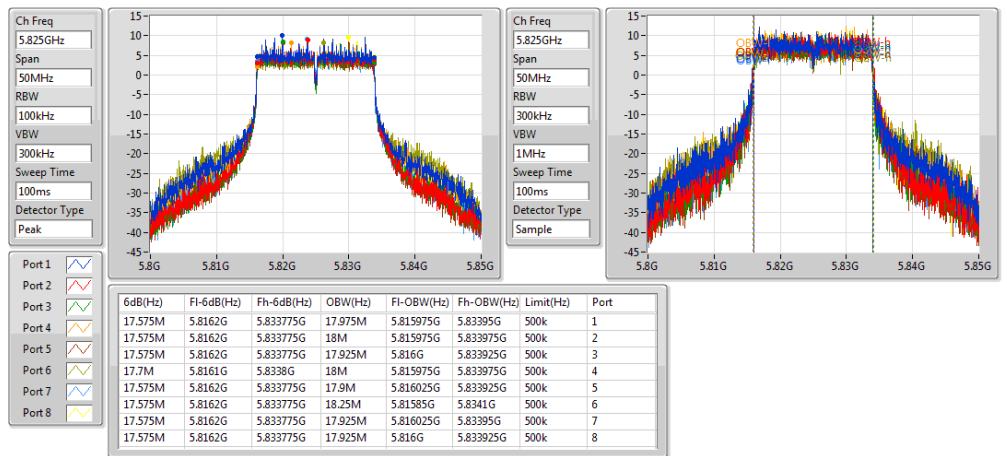
5200MHz



802.11ac VHT20_Nss2,(MCS0)_8TX

EBW

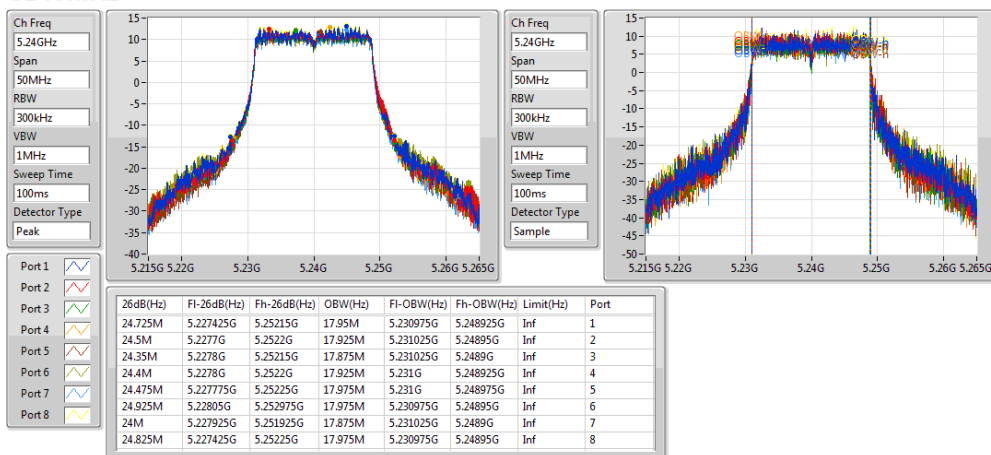
5825MHz



802.11ac VHT20_Nss2,(MCS0)_8TX

EBW

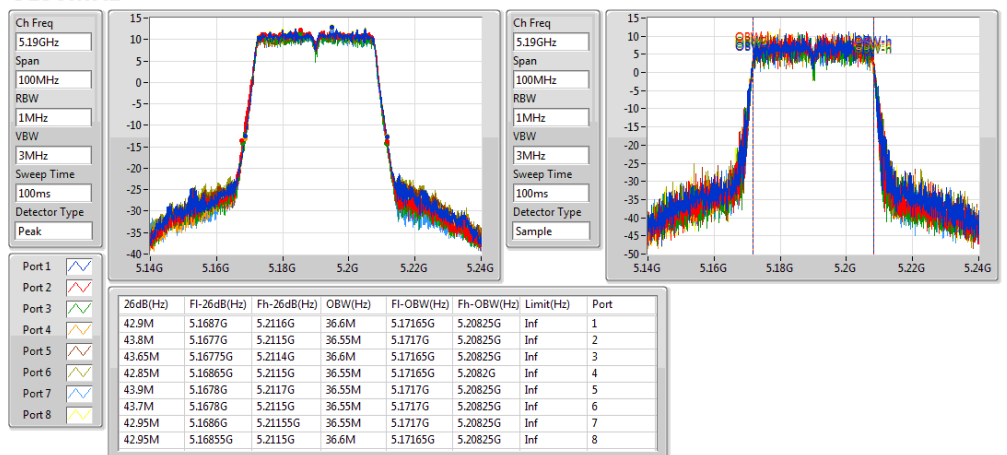
5240MHz



802.11ac VHT40_Nss2,(MCS0)_8TX

EBW

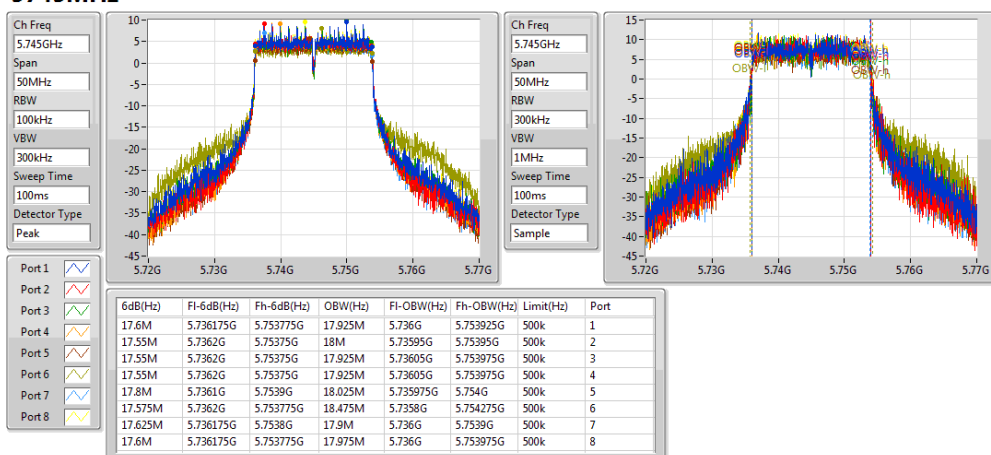
5190MHz



802.11ac VHT20_Nss2,(MCS0)_8TX

EBW

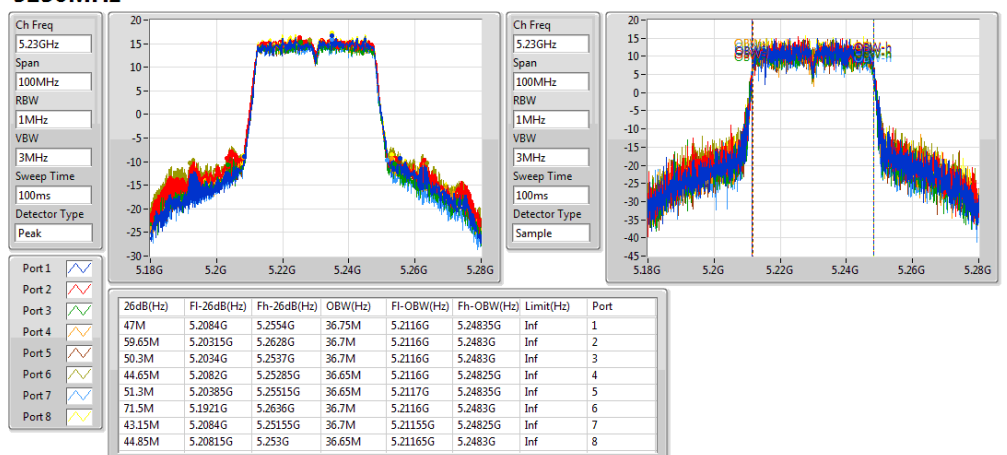
5745MHz



802.11ac VHT40_Nss2,(MCS0)_8TX

EBW

5230MHz

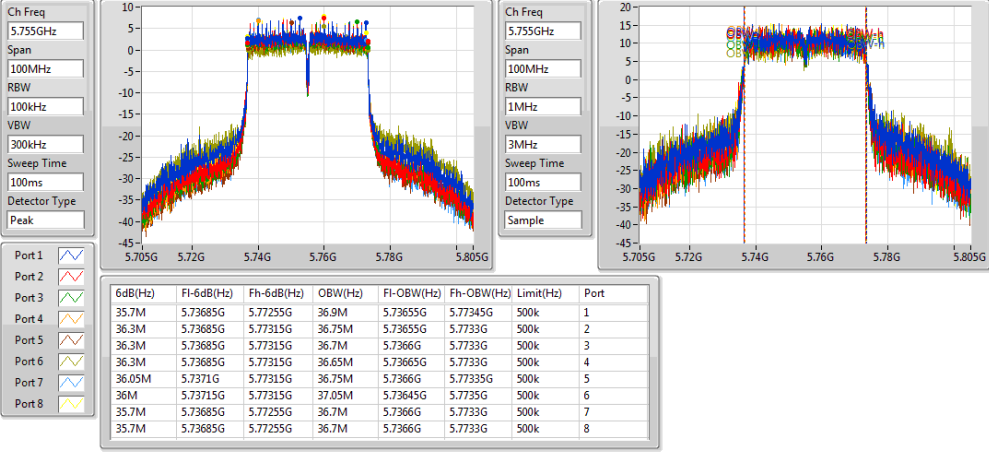




802.11ac VHT40_Nss2,(MCS0)_8TX

EBW

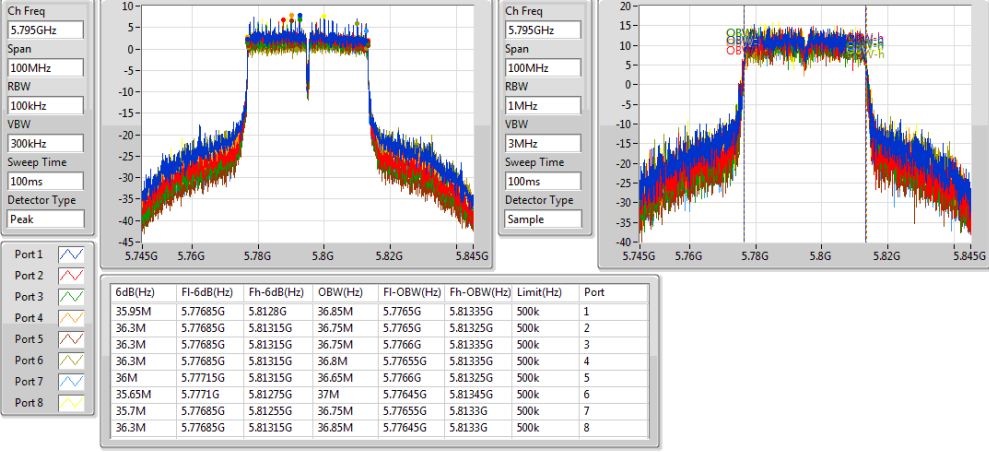
5755MHz



802.11ac VHT40_Nss2,(MCS0)_8TX

EBW

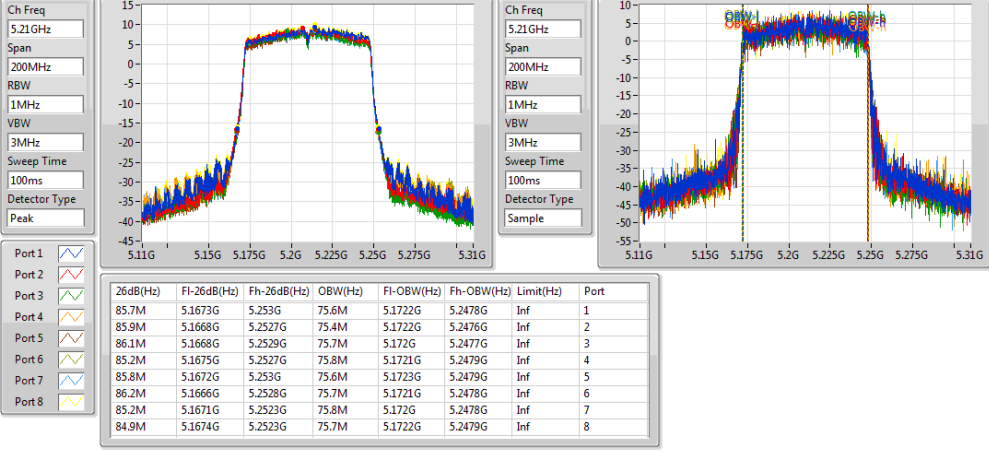
5795MHz



802.11ac VHT80_Nss2,(MCS0)_8TX

EBW

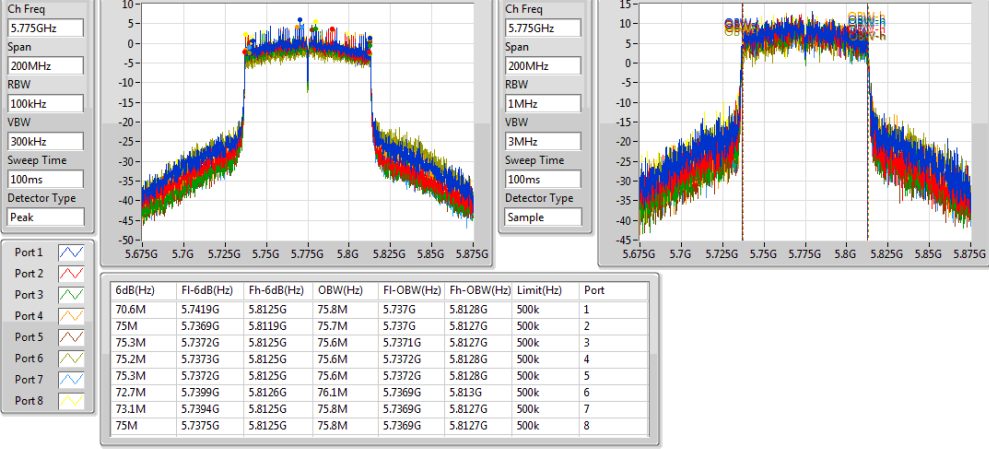
5210MHz



802.11ac VHT80_Nss2,(MCS0)_8TX

EBW

5775MHz





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)_8TX	24.875M	17.891M	17M9D1D	23.95M	17.741M
802.11ac VHT40-BF_Nss1,(MCS0)_8TX	46.9M	36.332M	36M3D1D	42.45M	36.182M
802.11ac VHT80-BF_Nss1,(MCS0)_8TX	130.5M	75.962M	76M0D1D	97.4M	75.662M
5.725-5.85GHz	-	-	-	-	-
802.11ac VHT20-BF_Nss1,(MCS0)_8TX	17.625M	17.891M	17M9D1D	16.9M	17.716M
802.11ac VHT40-BF_Nss1,(MCS0)_8TX	36.35M	36.432M	36M4D1D	35.25M	36.182M
802.11ac VHT80-BF_Nss1,(MCS0)_8TX	75.6M	76.162M	76M2D1D	72.9M	75.662M

Max-N dB = Maximum 6dB down bandwidth for UNII-3 band / Maximum 26dB down bandwidth for other band; Max-OBW = Maximum 99% occupied bandwidth;
Min-N dB = Minimum 6dB down bandwidth for UNII-3 band / Maximum 26dB down bandwidth for other band; Min-OBW = Minimum 99% occupied bandwidth;



Result

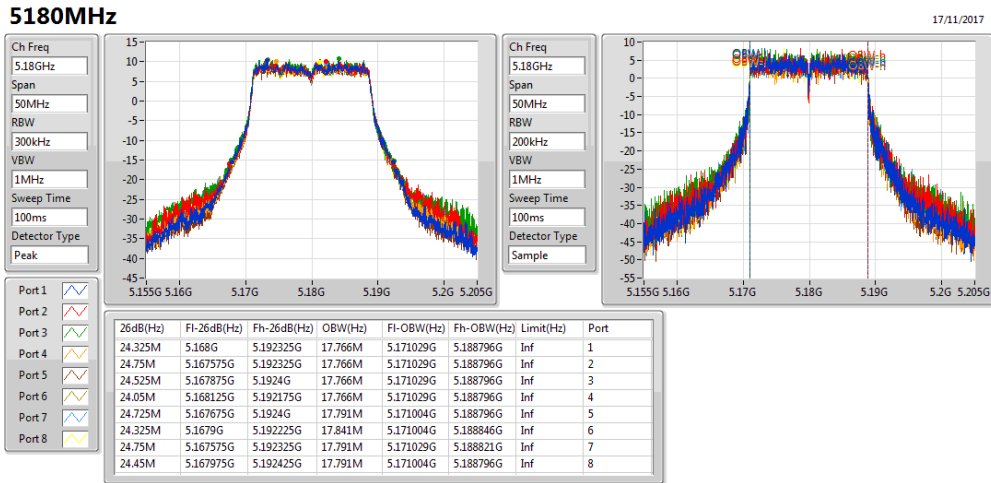
Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)	Port 3-N dB (Hz)	Port 3-OBW (Hz)	Port 4-N dB (Hz)	Port 4-OBW (Hz)	Port 5-N dB (Hz)	Port 5-OBW (Hz)	Port 6-N dB (Hz)	Port 6-OBW (Hz)	Port 7-N dB (Hz)	Port 7-OBW (Hz)	Port 8-N dB (Hz)	Port 8-OBW (Hz)
802.11ac VHT20-BF_Nss1,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	Inf	24.325M	17.766M	24.75M	17.766M	24.525M	17.766M	24.05M	17.766M	24.725M	17.791M	24.325M	17.841M	24.75M	17.791M	24.45M	17.791M
5200MHz	Pass	Inf	24.425M	17.766M	24.675M	17.766M	24.5M	17.741M	24.2M	17.791M	24.575M	17.791M	24.175M	17.791M	24.875M	17.841M	24.2M	17.816M
5240MHz	Pass	Inf	24.25M	17.791M	24.85M	17.791M	24.55M	17.841M	24.2M	17.791M	23.95M	17.766M	24.35M	17.841M	24.75M	17.791M	24.575M	17.891M
5745MHz	Pass	500k	17.6M	17.816M	17.6M	17.791M	17.6M	17.766M	17.55M	17.716M	17.6M	17.816M	17.575M	17.766M	17.575M	17.841M	17.55M	17.791M
5785MHz	Pass	500k	17.575M	17.841M	17.575M	17.816M	17.625M	17.791M	17.3M	17.716M	17.6M	17.816M	17.575M	17.766M	17.575M	17.891M	17.575M	17.816M
5825MHz	Pass	500k	17.575M	17.816M	17.575M	17.841M	17.625M	17.816M	16.9M	17.741M	17.6M	17.791M	17.6M	17.791M	17.6M	17.891M	17.525M	17.791M
802.11ac VHT40-BF_Nss1,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	Inf	42.65M	36.232M	43.05M	36.332M	46.9M	36.282M	42.95M	36.282M	42.45M	36.282M	45.9M	36.232M	43.05M	36.282M	45.15M	36.182M
5230MHz	Pass	Inf	42.55M	36.232M	42.9M	36.332M	46.7M	36.232M	42.6M	36.282M	42.6M	36.332M	45.35M	36.282M	42.9M	36.282M	42.9M	36.232M
5755MHz	Pass	500k	35.9M	36.232M	35.5M	36.232M	36.35M	36.332M	36.35M	36.332M	36.35M	36.182M	36.3M	36.282M	36.35M	36.432M	35.25M	36.232M
5795MHz	Pass	500k	35.85M	36.232M	36.25M	36.332M	36.3M	36.232M	35.9M	36.282M	36.35M	36.232M	36.3M	36.282M	36.35M	36.282M	35.5M	36.282M
802.11ac VHT80-BF_Nss1,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	Inf	97.4M	75.762M	115.6M	75.862M	130.5M	75.962M	115.2M	75.862M	98.1M	75.862M	110.3M	75.762M	125.6M	75.862M	106.5M	75.662M
5775MHz	Pass	500k	72.9M	75.762M	75.4M	75.762M	73.7M	75.662M	74.4M	75.762M	74.8M	75.662M	75.6M	75.662M	73.1M	76.162M	73.7M	75.762M

Port X-N dB = Port X 6dB down bandwidth for UNII-3 band / 26dB down bandwidth for other band; Port X-OBW = Port X 99% occupied bandwidth;

802.11ac VHT20-BF_Nss1,(MCS0)_8TX

5180MHz

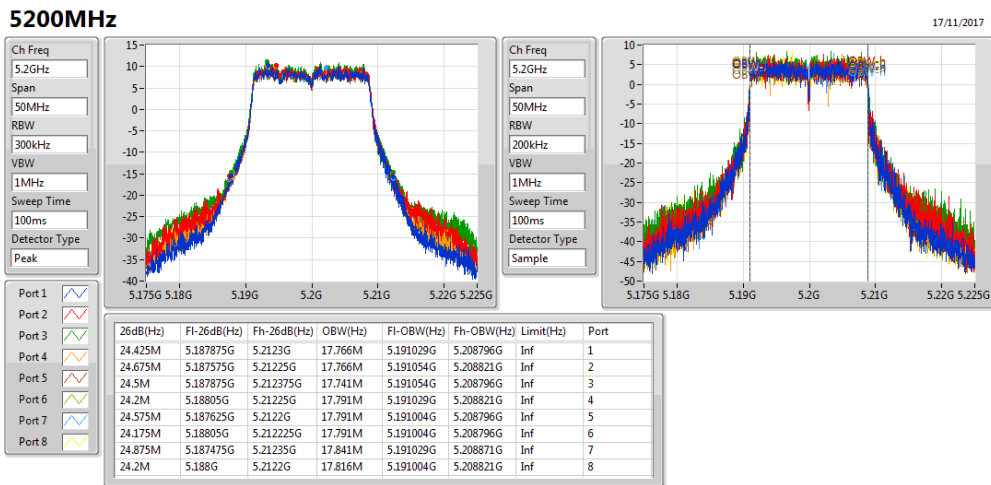
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802.11ac VHT20-BF_Nss1,(MCS0)_8TX

5200MHz

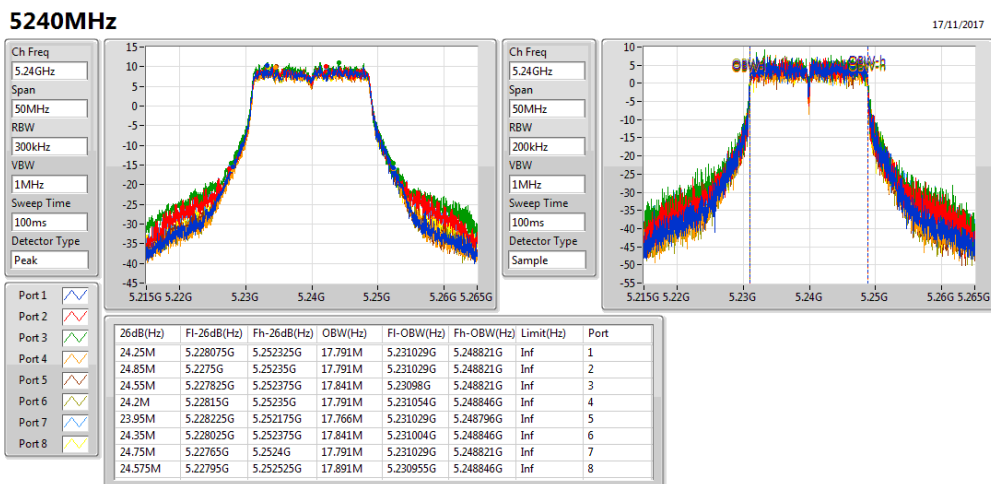
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802.11ac VHT20-BF_Nss1,(MCS0)_8TX

5240MHz

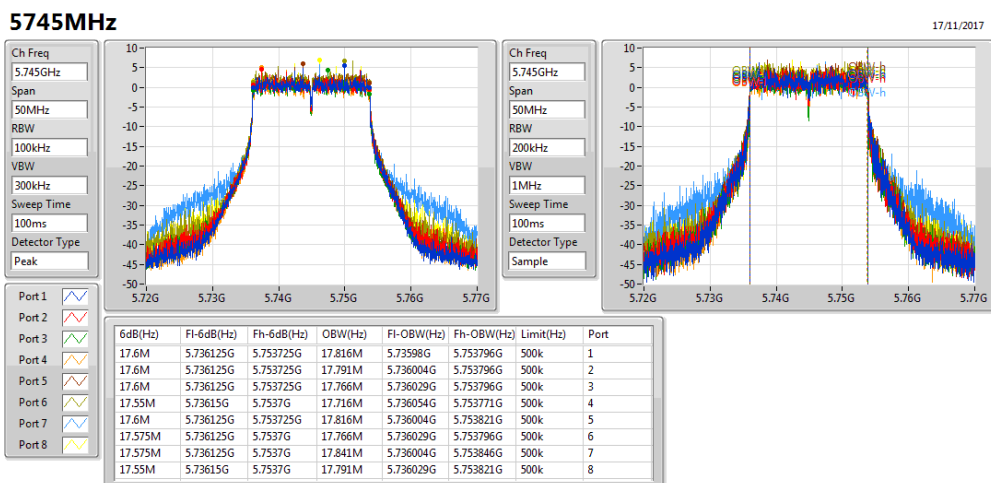
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802.11ac VHT20-BF_Nss1,(MCS0)_8TX

5745MHz

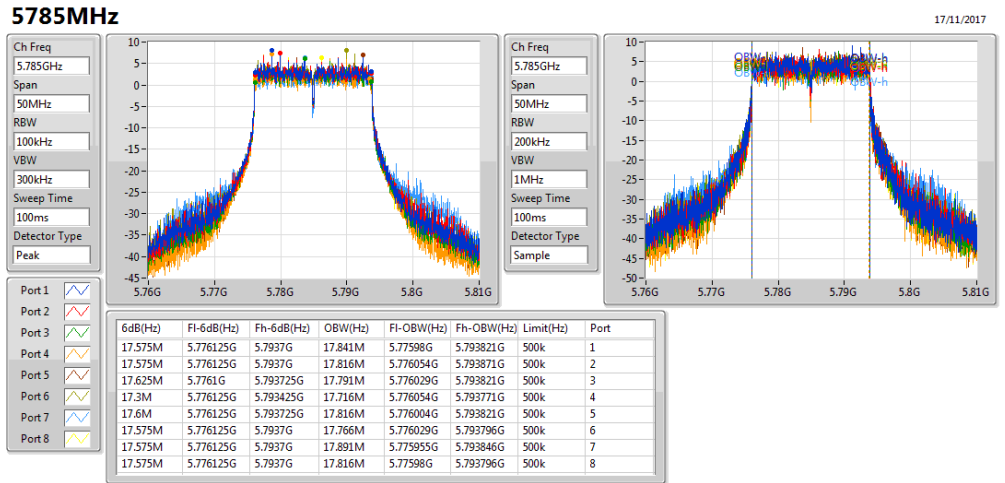
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802.11ac VHT20-BF_Nss1,(MCS0)_8TX

5785MHz

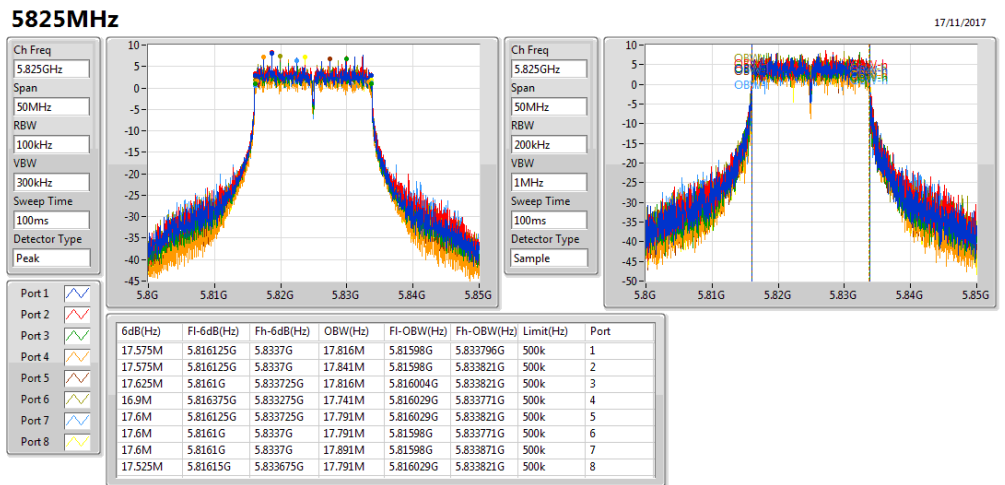
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802.11ac VHT20-BF_Nss1,(MCS0)_8TX

5825MHz

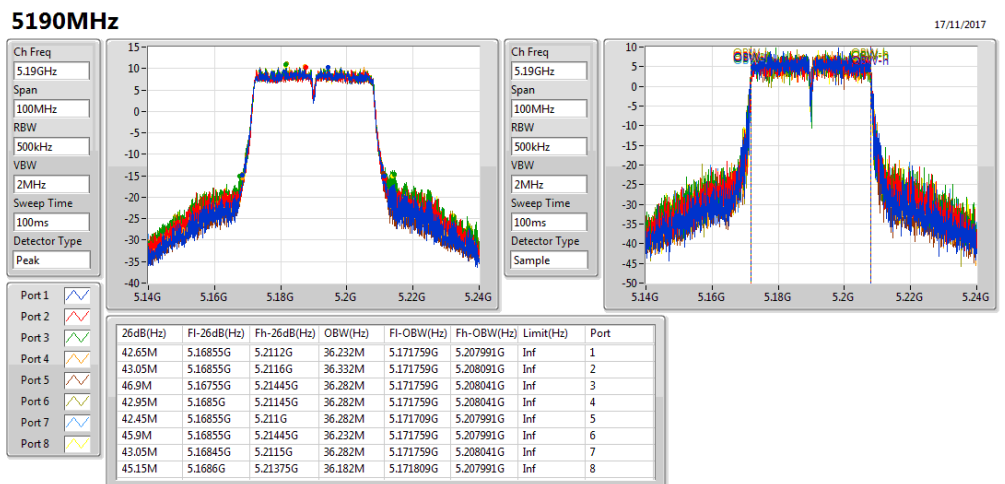
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802.11ac VHT40-BF_Nss1,(MCS0)_8TX

5190MHz

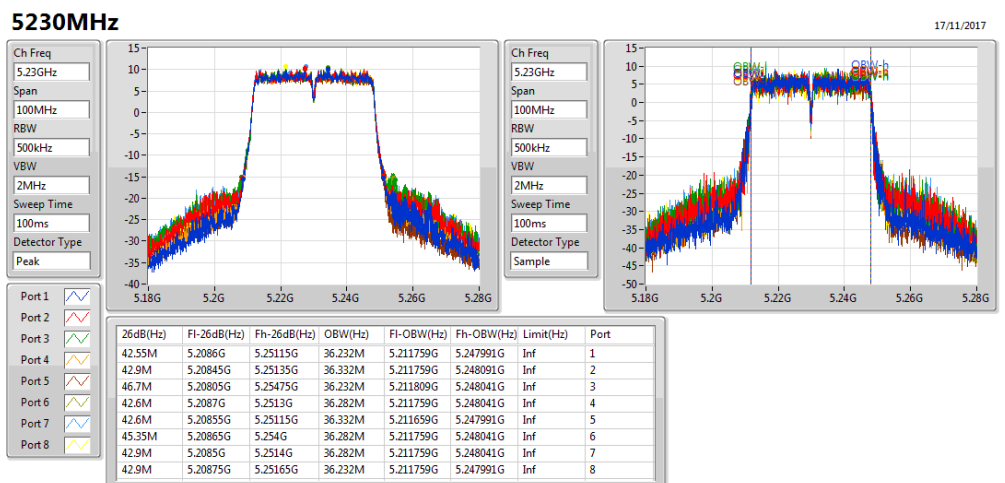
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802.11ac VHT40-BF_Nss1,(MCS0)_8TX

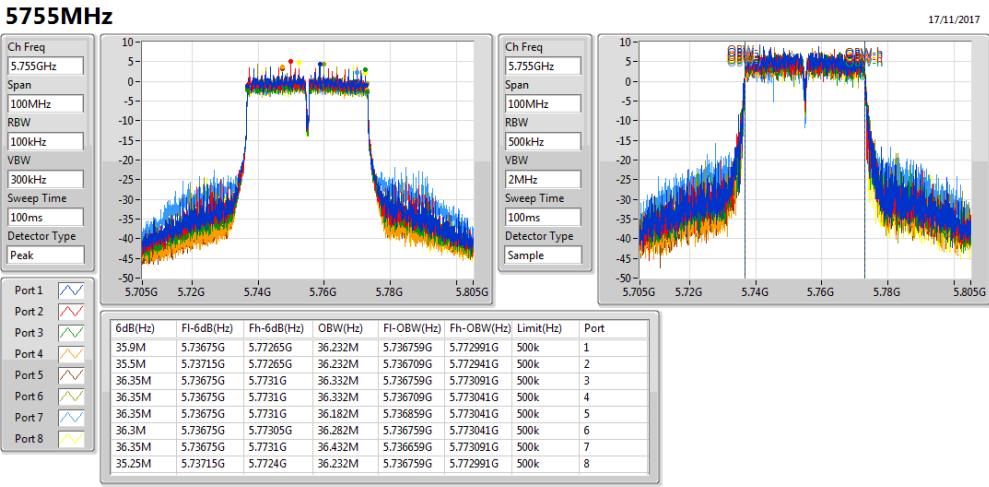
5230MHz

EBW



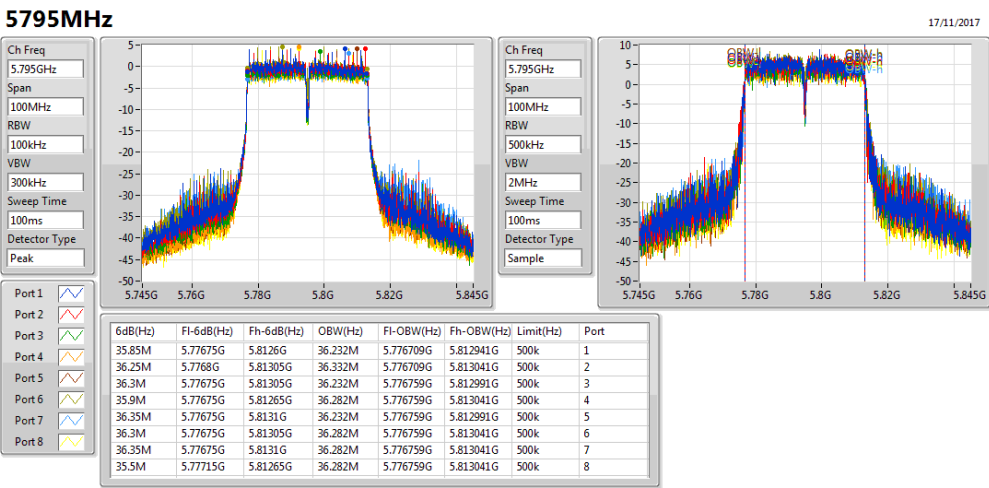
802.11ac VHT40-BF_Nss1,(MCS0)_8TX

EBW



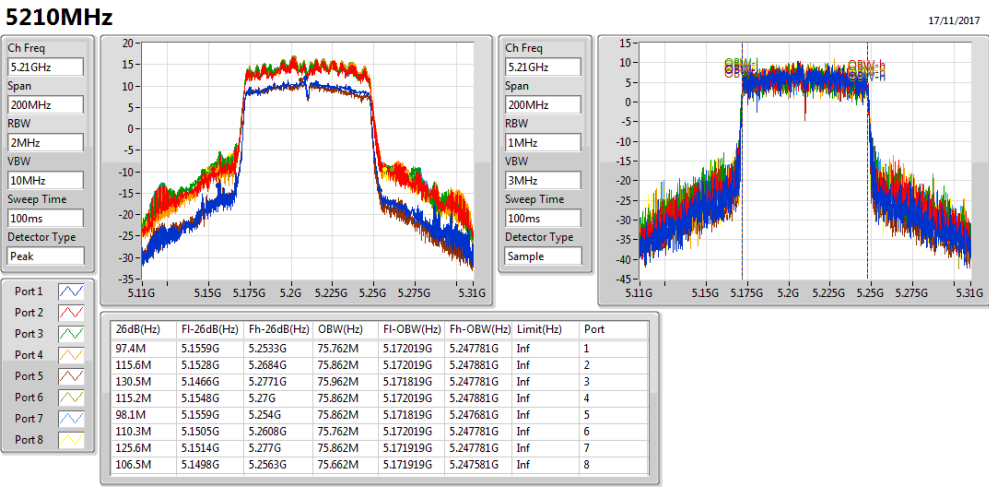
802.11ac VHT40-BF_Nss1,(MCS0)_8TX

EBW



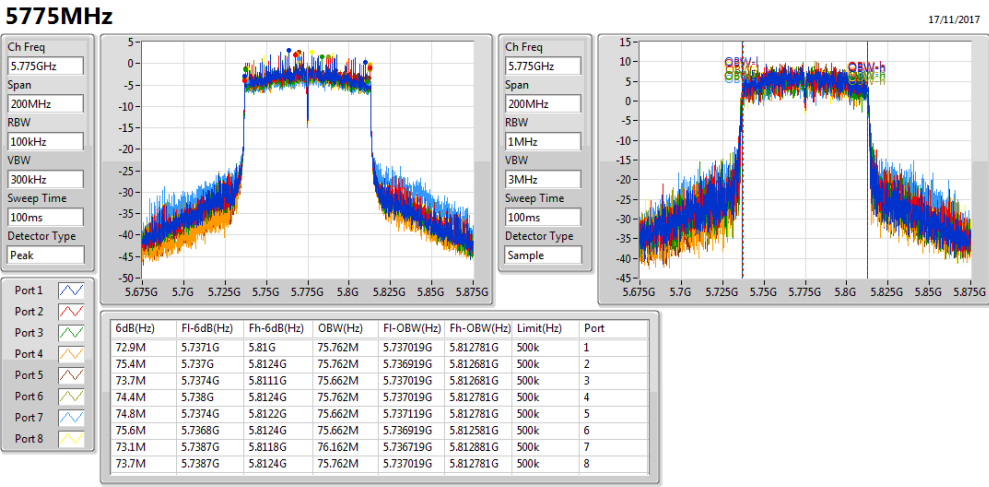
802.11ac VHT80-BF_Nss1,(MCS0)_8TX

EBW



802.11ac VHT80-BF_Nss1,(MCS0)_8TX

EBW





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_Nss2,(MCS0)_8TX	27.9M	17.916M	17M9D1D	23.525M	17.741M
802.11ac VHT40-BF_Nss2,(MCS0)_8TX	69.15M	36.332M	36M3D1D	41.4M	36.182M
802.11ac VHT80-BF_Nss2,(MCS0)_8TX	108.5M	75.862M	75M9D1D	95.3M	75.462M
5.725-5.85GHz	-	-	-	-	-
802.11ac VHT20-BF_Nss2,(MCS0)_8TX	17.65M	18.166M	18M2D1D	17.175M	17.716M
802.11ac VHT40-BF_Nss2,(MCS0)_8TX	36.35M	36.432M	36M4D1D	35.2M	36.132M
802.11ac VHT80-BF_Nss2,(MCS0)_8TX	75.5M	76.062M	76M1D1D	69.4M	75.562M

Max-N dB = Maximum 6dB down bandwidth for UNII-3 band / Maximum 26dB down bandwidth for other band; Max-OBW = Maximum 99% occupied bandwidth;
Min-N dB = Minimum 6dB down bandwidth for UNII-3 band / Maximum 26dB down bandwidth for other band; Min-OBW = Minimum 99% occupied bandwidth;



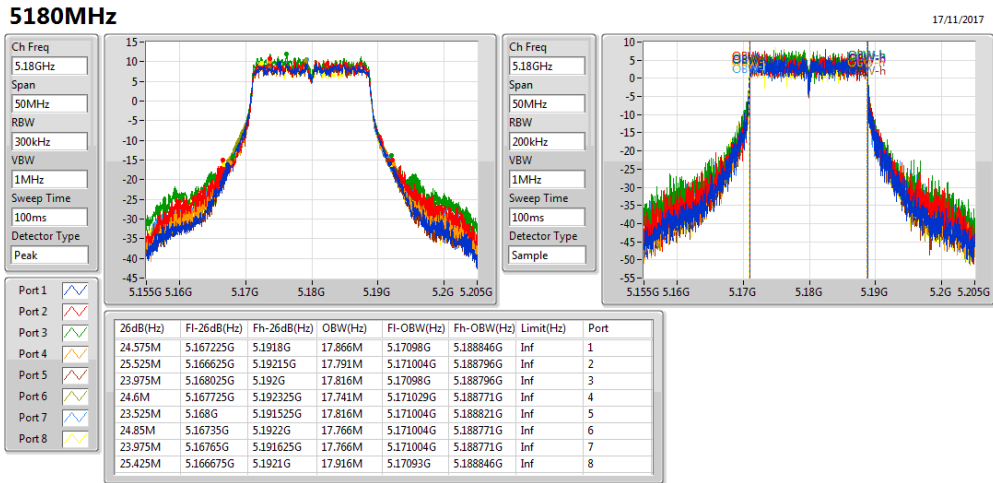
Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)	Port 3-N dB (Hz)	Port 3-OBW (Hz)	Port 4-N dB (Hz)	Port 4-OBW (Hz)	Port 5-N dB (Hz)	Port 5-OBW (Hz)	Port 6-N dB (Hz)	Port 6-OBW (Hz)	Port 7-N dB (Hz)	Port 7-OBW (Hz)	Port 8-N dB (Hz)	Port 8-OBW (Hz)
802.11ac VHT20-BF_Nss2,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	Inf	24.575M	17.866M	25.525M	17.791M	23.975M	17.816M	24.6M	17.741M	23.525M	17.816M	24.85M	17.766M	23.975M	17.766M	25.425M	17.916M
5200MHz	Pass	Inf	25.1M	17.816M	27.9M	17.816M	24.825M	17.866M	24.3M	17.766M	23.65M	17.766M	25.35M	17.866M	26.3M	17.866M	25.975M	17.916M
5240MHz	Pass	Inf	24.825M	17.816M	27.675M	17.766M	24.75M	17.866M	24.4M	17.741M	23.65M	17.791M	24.975M	17.791M	26.55M	17.816M	25.925M	17.891M
5745MHz	Pass	500k	17.55M	17.841M	17.575M	17.866M	17.625M	17.891M	17.3M	17.791M	17.6M	17.741M	17.6M	17.841M	17.625M	18.166M	17.225M	17.916M
5785MHz	Pass	500k	17.65M	17.866M	17.575M	17.791M	17.6M	17.791M	17.55M	17.766M	17.6M	17.741M	17.575M	17.866M	17.6M	17.866M	17.175M	17.741M
5825MHz	Pass	500k	17.65M	17.841M	17.575M	17.816M	17.6M	17.791M	17.55M	17.741M	17.55M	17.716M	17.65M	17.841M	17.6M	17.866M	17.2M	17.766M
802.11ac VHT40-BF_Nss2,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	Inf	42.8M	36.282M	42.15M	36.232M	43.2M	36.332M	42.45M	36.232M	41.65M	36.282M	43.95M	36.282M	69.15M	36.332M	53.45M	36.182M
5230MHz	Pass	Inf	42.6M	36.232M	42.2M	36.282M	43.15M	36.332M	42.25M	36.232M	41.4M	36.282M	44M	36.282M	43.3M	36.232M	53.4M	36.282M
5755MHz	Pass	500k	36.3M	36.432M	36.35M	36.332M	36.25M	36.332M	35.2M	36.232M	36.1M	36.232M	35.95M	36.182M	36.35M	36.432M	36.25M	36.232M
5795MHz	Pass	500k	35.7M	36.282M	36.3M	36.332M	36.35M	36.232M	35.65M	36.132M	35.9M	36.282M	35.75M	36.332M	36.3M	36.282M	35.9M	36.232M
802.11ac VHT80-BF_Nss2,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	Inf	97.8M	75.562M	108.5M	75.662M	96.2M	75.662M	103.7M	75.762M	95.3M	75.462M	107.3M	75.762M	105.1M	75.762M	107.1M	75.862M
5775MHz	Pass	500k	73.7M	75.762M	72.2M	75.862M	73.8M	75.762M	72.6M	75.862M	72.6M	75.562M	75.1M	75.662M	75.5M	76.062M	69.4M	75.962M

Port X-N dB = Port X 6dB down bandwidth for UNII-3 band / 26dB down bandwidth for other band; Port X-OBW = Port X 99% occupied bandwidth;

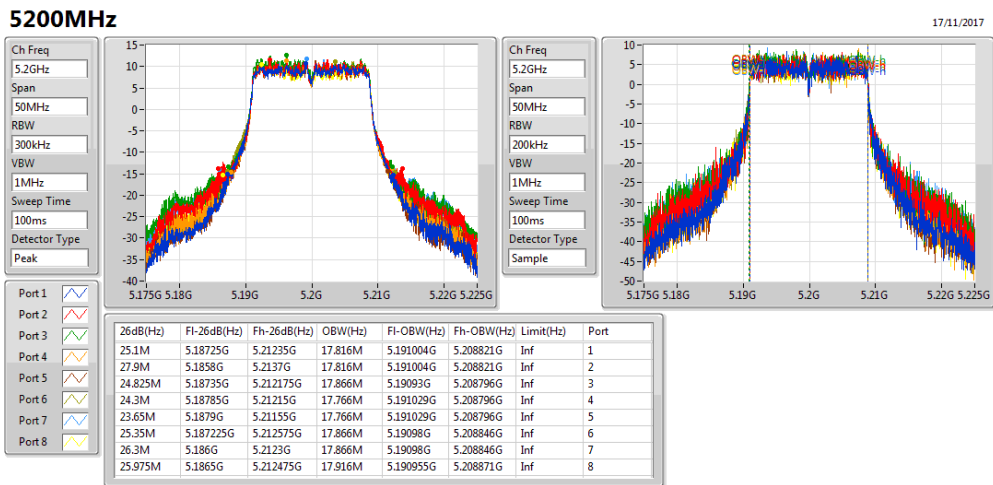
802.11ac VHT20-BF_Nss2,(MCS0)_8TX

EBW



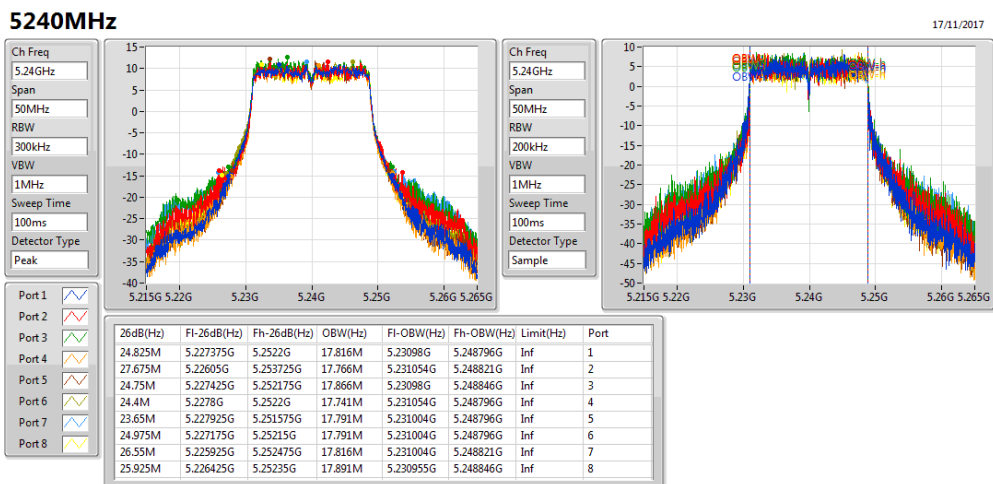
802.11ac VHT20-BF_Nss2,(MCS0)_8TX

EBW



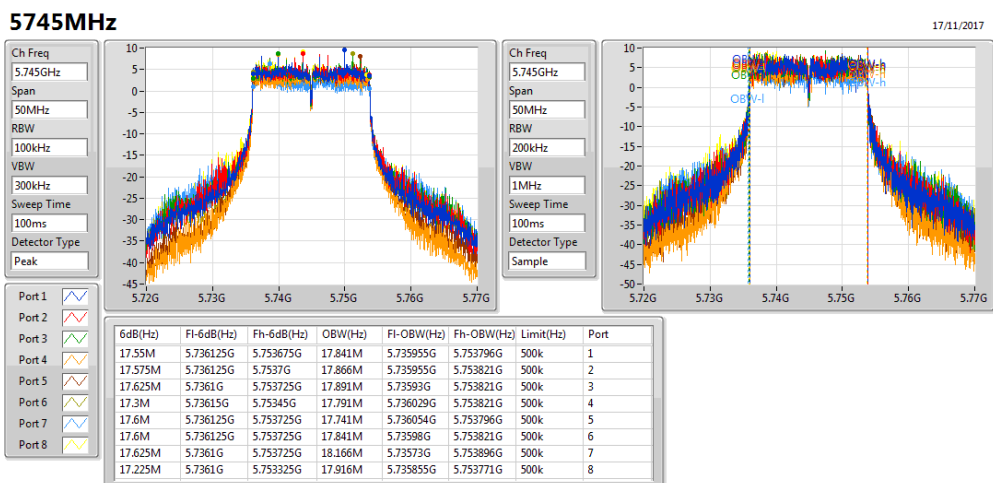
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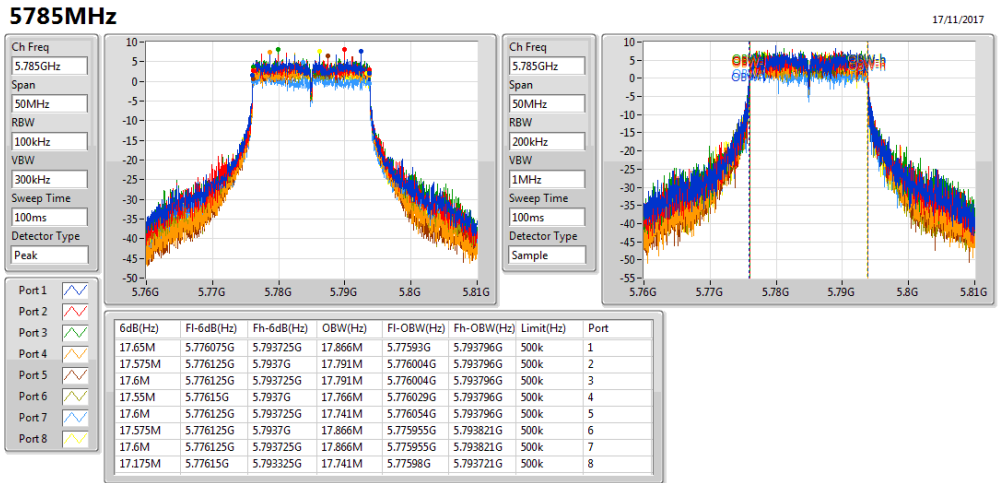
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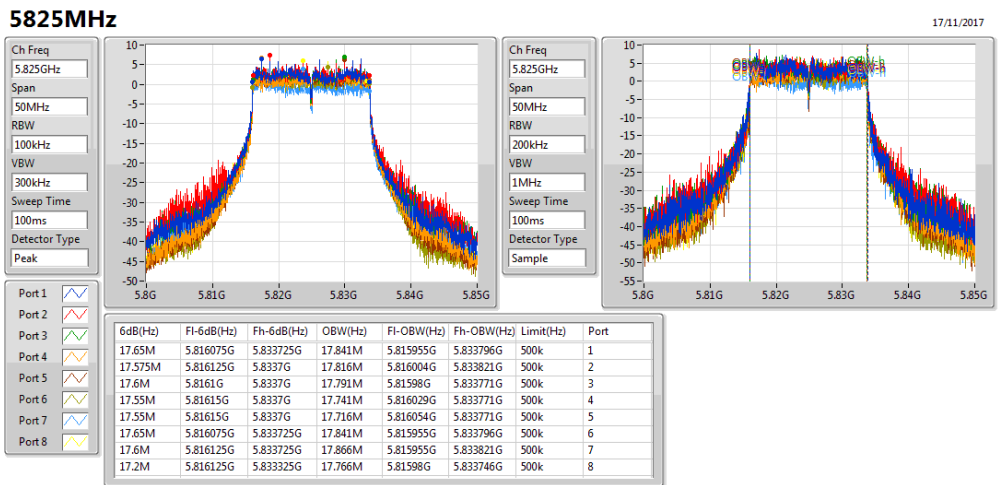
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EBW



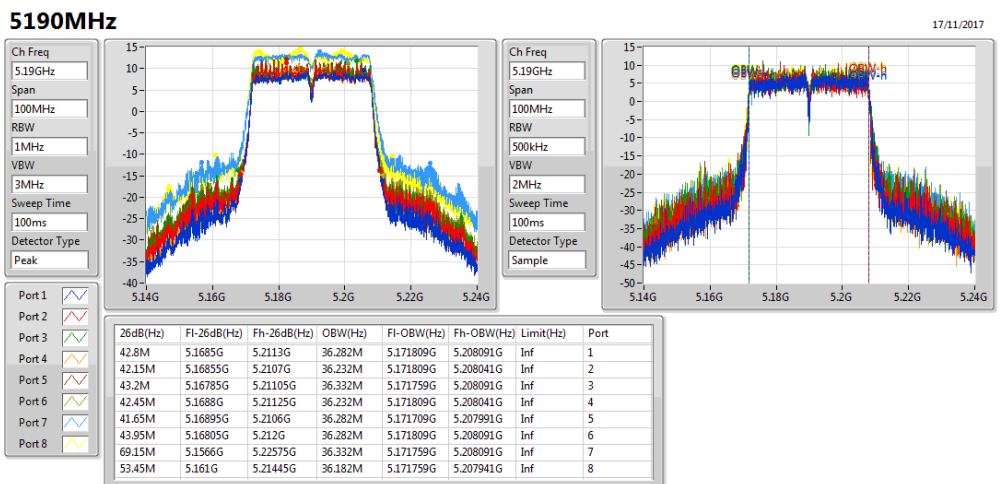
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EBW



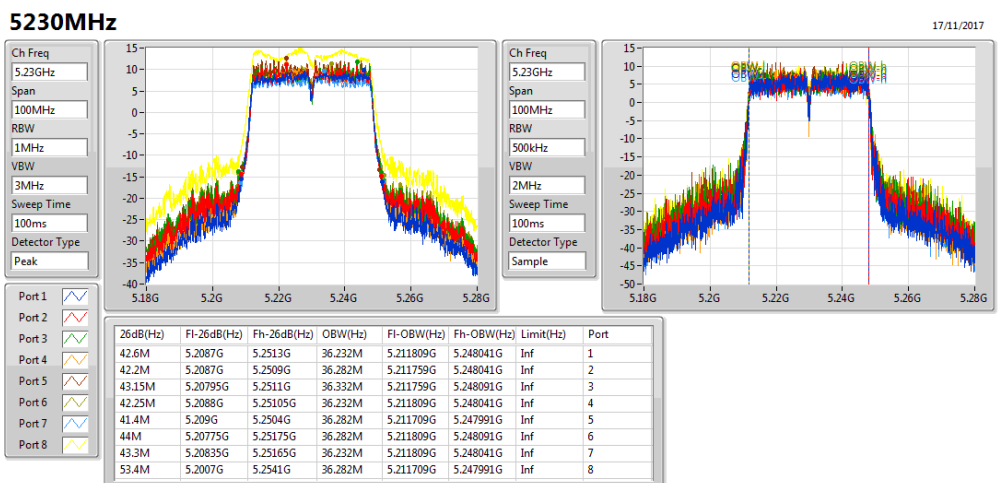
802.11ac VHT40-BF_Nss2,(MCS0)_8TX

EBW



802.11ac VHT40-BF_Nss2,(MCS0)_8TX

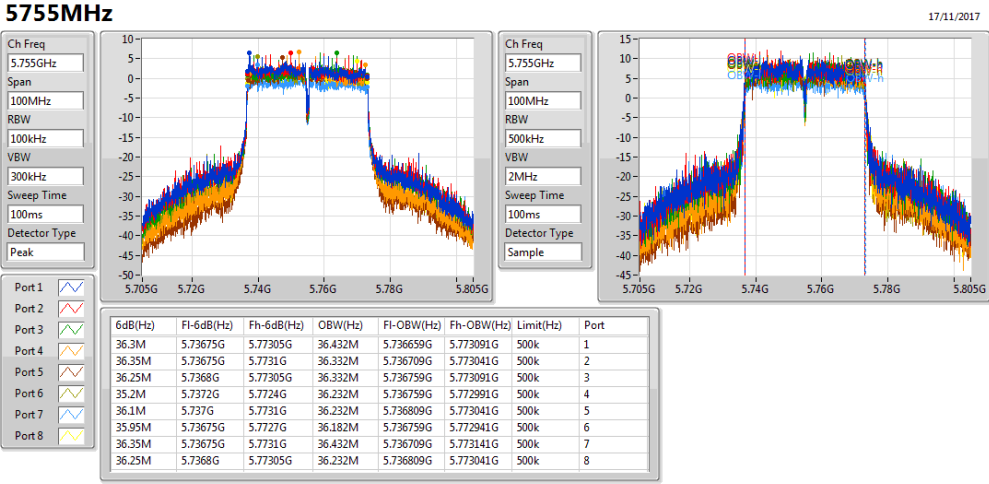
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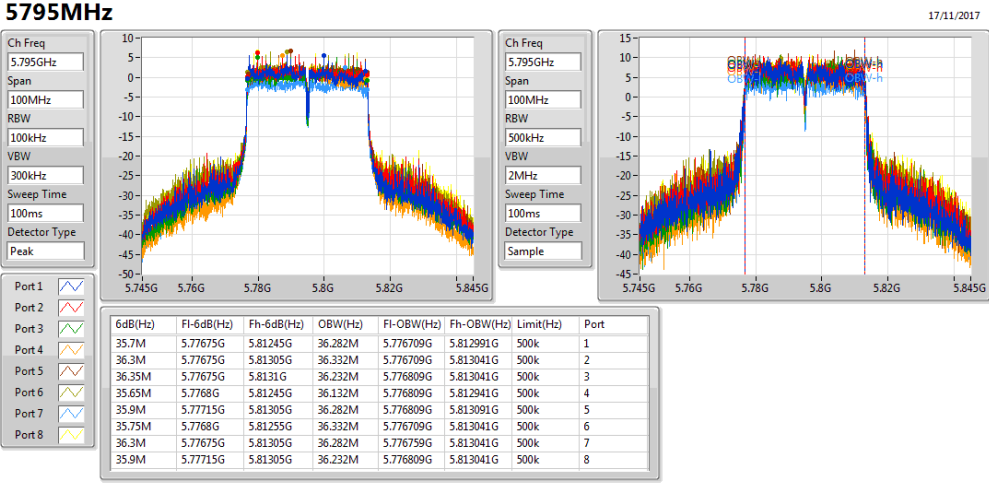
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EBW



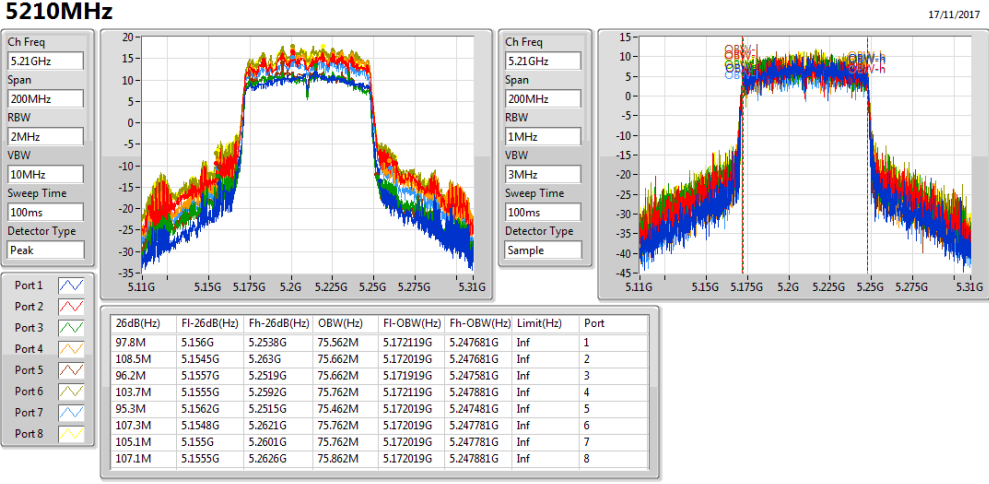
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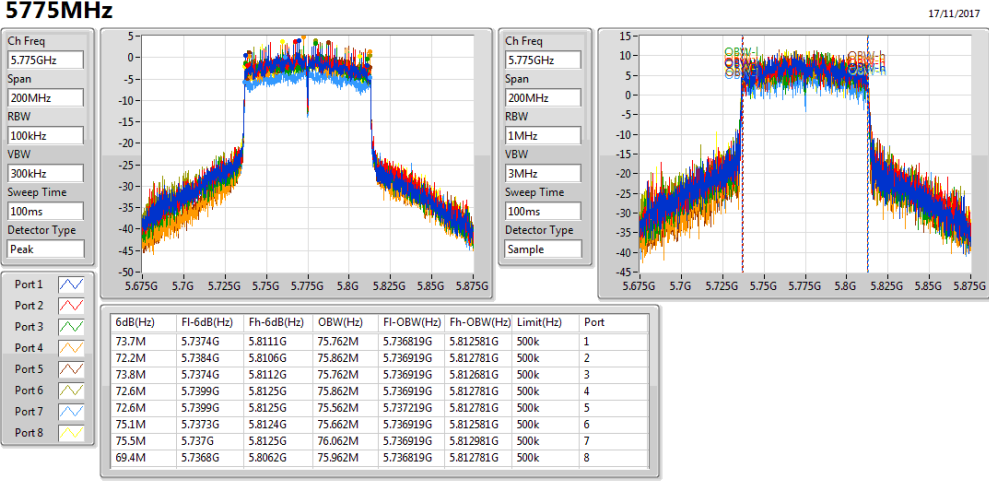
802.11ac VHT80-BF_Nss2,(MCS0)_8TX

EBW



802.11ac VHT80-BF_Nss2,(MCS0)_8TX

EBW





Summary

Mode	Total Power (dBm)	Total Power (W)	EIRP (dBm)	EIRP (W)
5.15-5.25GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_8TX	29.20	0.83176	35.70	3.71535
802.11ac VHT20_Nss1,(MCS0)_8TX	29.41	0.87297	35.91	3.89942
802.11ac VHT40_Nss1,(MCS0)_8TX	29.47	0.88520	32.97	1.98152
802.11ac VHT80_Nss1,(MCS0)_8TX	26.81	0.47973	30.31	1.07399
5.725-5.85GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_8TX	29.44	0.87902	35.84	3.83707
802.11ac VHT20_Nss1,(MCS0)_8TX	29.45	0.88105	35.85	3.84592
802.11ac VHT40_Nss1,(MCS0)_8TX	29.42	0.87498	32.82	1.91426
802.11ac VHT80_Nss1,(MCS0)_8TX	28.68	0.73790	32.08	1.61436



Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Port 3 (dBm)	Port 4 (dBm)	Port 5 (dBm)	Port 6 (dBm)	Port 7 (dBm)	Port 8 (dBm)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
802.11a_Nss1,(6Mbps)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5180MHz_TnomVnom	Pass	6.50	20.06	20.44	19.73	20.49	19.73	20.55	19.89	20.39	29.20	29.50	35.70	36.00
5200MHz_TnomVnom	Pass	6.50	19.86	20.55	19.79	20.31	19.49	20.61	20.13	20.39	29.19	29.50	35.69	36.00
5240MHz_TnomVnom	Pass	6.50	19.78	20.52	19.97	20.24	19.48	20.32	20.22	20.32	29.15	29.50	35.65	36.00
5745MHz_TnomVnom	Pass	6.40	20.47	20.64	19.97	20.12	20.41	20.64	18.60	20.70	29.27	29.60	35.67	36.00
5785MHz_TnomVnom	Pass	6.40	20.43	20.80	20.13	20.29	20.46	20.79	18.50	20.25	29.29	29.60	35.69	36.00
5825MHz_TnomVnom	Pass	6.40	20.31	21.20	20.38	20.58	20.51	20.61	18.87	20.48	29.44	29.60	35.84	36.00
802.11ac_VHT20_Nss1,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5180MHz_TnomVnom	Pass	6.50	19.39	19.62	20.24	19.40	18.90	18.41	18.88	18.98	28.29	29.50	34.79	36.00
5200MHz_TnomVnom	Pass	6.50	20.28	20.44	20.85	20.64	20.01	20.56	19.85	20.34	29.41	29.50	35.91	36.00
5240MHz_TnomVnom	Pass	6.50	20.15	20.45	20.87	20.52	20.03	20.66	19.97	20.14	29.39	29.50	35.89	36.00
5745MHz_TnomVnom	Pass	6.40	20.64	20.89	19.99	20.34	20.20	20.96	18.84	20.37	29.35	29.60	35.75	36.00
5785MHz_TnomVnom	Pass	6.40	20.43	20.81	20.01	19.85	20.38	21.20	18.63	20.21	29.28	29.60	35.68	36.00
5825MHz_TnomVnom	Pass	6.40	20.21	21.36	20.51	20.05	20.52	21.13	19.19	20.02	29.45	29.60	35.85	36.00
802.11ac_VHT40_Nss1,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5190MHz_TnomVnom	Pass	3.50	16.90	17.23	17.24	17.46	16.82	17.58	16.84	17.17	26.19	30.00	29.69	36.00
5230MHz_TnomVnom	Pass	3.50	20.43	20.32	20.64	20.6	20.34	20.22	20.49	20.46	29.47	30.00	32.97	36.00
5755MHz_TnomVnom	Pass	3.40	20.70	20.69	20.56	19.77	20.61	20.96	19.89	19.79	29.42	30.00	32.82	36.00
5795MHz_TnomVnom	Pass	3.40	20.59	20.83	20.61	19.66	20.63	20.96	19.31	19.71	29.36	30.00	32.76	36.00
802.11ac_VHT80_Nss1,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5210MHz_TnomVnom	Pass	3.50	17.73	18.19	17.90	17.88	17.74	17.71	17.63	17.41	26.81	30.00	30.31	36.00
5775MHz_TnomVnom	Pass	3.40	19.93	19.98	20.00	19.39	19.79	20.23	18.29	19.33	28.68	30.00	32.08	36.00

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



Summary

Mode	Total Power (dBm)	Total Power (W)	EIRP (dBm)	EIRP (W)
802.11ac VHT20_Nss2,(MCS0)_8TX	-	-	-	-
5.15-5.25GHz	29.47	0.88511	33.47	2.22330
5.725-5.85GHz	29.47	0.88512	34.07	2.55270
802.11ac VHT40_Nss2,(MCS0)_8TX	-	-	-	-
5.15-5.25GHz	29.47	0.88511	33.47	2.22330
5.725-5.85GHz	29.59	0.90991	32.99	1.99067
802.11ac VHT80_Nss2,(MCS0)_8TX	-	-	-	-
5.15-5.25GHz	26.10	0.40738	30.10	1.02329
5.725-5.85GHz	29.48	0.88716	32.88	1.94089



Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Port 3 (dBm)	Port 4 (dBm)	Port 5 (dBm)	Port 6 (dBm)	Port 7 (dBm)	Port 8 (dBm)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
802.11ac VHT20_Nss2,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5180MHz_TnomVnom	Pass	4.00	20.13	21.07	20.16	20.61	20.13	20.14	20.04	21.07	29.47	30.00	33.47	36.00
5200MHz_TnomVnom	Pass	4.00	20.21	20.86	20.33	20.66	20.01	20.26	20.01	21.01	29.46	30.00	33.46	36.00
5240MHz_TnomVnom	Pass	4.00	20.52	20.99	20.21	20.48	20.03	20.21	20.1	20.87	29.47	30.00	33.47	36.00
5745MHz_TnomVnom	Pass	4.60	20.74	20.68	20.63	20.93	19.99	19.34	19.93	20.94	29.46	30.00	34.06	36.00
5785MHz_TnomVnom	Pass	4.60	20.93	20.73	20.54	20.90	20.01	19.36	19.90	20.90	29.47	30.00	34.07	36.00
5825MHz_TnomVnom	Pass	4.60	20.90	20.51	20.24	21.09	19.76	19.50	19.90	20.81	29.40	30.00	34.00	36.00
802.11ac VHT40_Nss2,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5190MHz_TnomVnom	Pass	4.00	17.90	18.18	17.15	17.87	17.54	17.49	17.05	18.01	26.70	30.00	30.70	36.00
5230MHz_TnomVnom	Pass	4.00	20.62	20.69	20.18	20.66	20.37	20.29	19.71	20.85	29.47	30.00	33.47	36.00
5755MHz_TnomVnom	Pass	3.40	21.18	21.01	20.44	20.9	20.21	19.27	20.08	21.02	29.59	30.00	32.99	36.00
5795MHz_TnomVnom	Pass	3.40	21.14	21.06	20.46	20.78	20.04	19.28	20.07	21.23	29.58	30.00	32.98	36.00
802.11ac VHT80_Nss2,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5210MHz_TnomVnom	Pass	4.00	17.19	17.50	16.62	17.25	16.79	16.86	16.48	17.70	26.10	30.00	30.10	36.00
5775MHz_TnomVnom	Pass	3.40	21.02	20.90	20.46	20.86	20.03	19.04	19.81	21.09	29.48	30.00	32.88	36.00

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



Summary

Mode	Total Power (dBm)	Total Power (W)	EIRP (dBm)	EIRP (W)
5.15-5.25GHz	-	-	-	-
802.11ac VHT20-BF_Nss1,(MCS0)_8TX	28.82	0.76208	35.82	3.81944
802.11ac VHT40-BF_Nss1,(MCS0)_8TX	28.98	0.79068	35.98	3.96278
802.11ac VHT80-BF_Nss1,(MCS0)_8TX	28.94	0.78343	35.94	3.92645
5.725-5.85GHz	-	-	-	-
802.11ac VHT20-BF_Nss1,(MCS0)_8TX	28.49	0.70632	35.99	3.97192
802.11ac VHT40-BF_Nss1,(MCS0)_8TX	27.99	0.62951	35.49	3.53997
802.11ac VHT80-BF_Nss1,(MCS0)_8TX	28.39	0.69024	35.89	3.88150



Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Port 3 (dBm)	Port 4 (dBm)	Port 5 (dBm)	Port 6 (dBm)	Port 7 (dBm)	Port 8 (dBm)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
802.11ac VHT20-BF_Nss1,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	7.00	19.76	19.74	20.30	19.38	19.60	19.89	19.42	19.55	28.74	29.00	35.74	36.00
5200MHz	Pass	7.00	19.65	19.91	20.61	19.52	19.51	19.90	19.46	19.60	28.82	29.00	35.82	36.00
5240MHz	Pass	7.00	19.68	19.79	20.57	19.08	19.24	19.47	19.63	19.43	28.66	29.00	35.66	36.00
5745MHz	Pass	7.50	18.00	17.27	17.12	17.05	18.01	17.67	17.43	17.69	26.57	28.50	34.07	36.00
5785MHz	Pass	7.50	19.94	19.79	19.34	18.78	19.71	20.17	18.45	19.22	28.49	28.50	35.99	36.00
5825MHz	Pass	7.50	19.46	19.89	19.55	18.49	19.55	20.01	18.95	19.30	28.45	28.50	35.95	36.00
802.11ac VHT40-BF_Nss1,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	7.00	20.00	19.72	19.89	19.77	19.73	20.36	19.94	20.04	28.97	29.00	35.97	36.00
5230MHz	Pass	7.00	19.77	19.87	19.93	19.99	19.57	20.31	20.17	19.93	28.98	29.00	35.98	36.00
5755MHz	Pass	7.50	19.65	19.16	18.44	18.79	19.25	19.47	18.21	18.17	27.96	28.50	35.46	36.00
5795MHz	Pass	7.50	19.46	19.26	18.53	18.66	19.32	19.81	18.31	17.97	27.99	28.50	35.49	36.00
802.11ac VHT80-BF_Nss1,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	7.00	19.85	19.68	19.45	20.02	19.78	19.96	20.12	20.32	28.94	29.00	35.94	36.00
5775MHz	Pass	7.50	19.84	19.73	19.19	18.96	19.96	19.78	18.61	18.58	28.39	28.50	35.89	36.00

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



Summary

Mode	Total Power (dBm)	Total Power (W)	EIRP (dBm)	EIRP (W)
5.15-5.25GHz	-	-	-	-
802.11ac VHT20-BF_Nss2,(MCS0)_8TX	29.48	0.88716	33.48	2.22844
802.11ac VHT40-BF_Nss2,(MCS0)_8TX	29.43	0.87700	33.43	2.20292
802.11ac VHT80-BF_Nss2,(MCS0)_8TX	29.47	0.88511	33.47	2.22331
5.725-5.85GHz	-	-	-	-
802.11ac VHT20-BF_Nss2,(MCS0)_8TX	29.58	0.90782	34.18	2.61818
802.11ac VHT40-BF_Nss2,(MCS0)_8TX	29.58	0.90782	34.18	2.61818
802.11ac VHT80-BF_Nss2,(MCS0)_8TX	29.59	0.90991	34.19	2.62422



Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Port 3 (dBm)	Port 4 (dBm)	Port 5 (dBm)	Port 6 (dBm)	Port 7 (dBm)	Port 8 (dBm)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
802.11ac VHT20-BF_Nss2,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	4.00	20.35	20.71	21.54	20.67	19.85	19.90	20.17	19.25	29.38	30.00	33.38	36.00
5200MHz	Pass	4.00	20.44	20.37	20.52	20.64	20.01	20.69	20.71	20.2	29.48	30.00	33.48	36.00
5240MHz	Pass	4.00	20.32	20.33	20.73	20.31	20.46	20.54	20.61	20.18	29.47	30.00	33.47	36.00
5745MHz	Pass	4.60	21.04	20.96	21.03	19.98	20.58	20.52	19.36	20.67	29.58	30.00	34.18	36.00
5785MHz	Pass	4.60	20.64	20.29	20.77	19.34	19.42	19.56	17.28	19.58	28.75	30.00	33.35	36.00
5825MHz	Pass	4.60	19.62	19.99	19.94	18.48	18.68	18.23	16.61	18.57	27.91	30.00	32.51	36.00
802.11ac VHT40-BF_Nss2,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	4.00	20.05	20.17	20.19	20.13	20.54	20.83	20.51	20.63	29.42	30.00	33.42	36.00
5230MHz	Pass	4.00	20.02	20.15	20.13	20.36	20.83	20.79	20.19	20.64	29.43	30.00	33.43	36.00
5755MHz	Pass	4.60	21.15	21.03	21.06	21.14	20.33	20.33	18.8	20.08	29.58	30.00	34.18	36.00
5795MHz	Pass	4.60	20.59	20.66	20.42	20.25	21.02	21.12	18.09	21.21	29.54	30.00	34.14	36.00
802.11ac VHT80-BF_Nss2,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	4.00	20.17	20.15	20.27	20.64	21.06	21.19	18.42	21.02	29.47	30.00	33.47	36.00
5775MHz	Pass	4.60	20.89	20.78	20.67	20.93	20.82	20.96	18.07	20.71	29.59	30.00	34.19	36.00

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



Summary

Mode	PD (dBm/RBW)	EIRP PD (dBm/RBW)
5.15-5.25GHz	-	-
802.11a_Nss1,(6Mbps)_8TX	15.84	22.84
802.11ac VHT20_Nss1,(MCS0)_8TX	15.80	22.80
802.11ac VHT40_Nss1,(MCS0)_8TX	13.31	20.31
802.11ac VHT80_Nss1,(MCS0)_8TX	7.81	14.81
5.725-5.85GHz	-	-
802.11a_Nss1,(6Mbps)_8TX	14.59	22.09
802.11ac VHT20_Nss1,(MCS0)_8TX	14.31	21.81
802.11ac VHT40_Nss1,(MCS0)_8TX	11.42	18.92
802.11ac VHT80_Nss1,(MCS0)_8TX	8.18	15.68

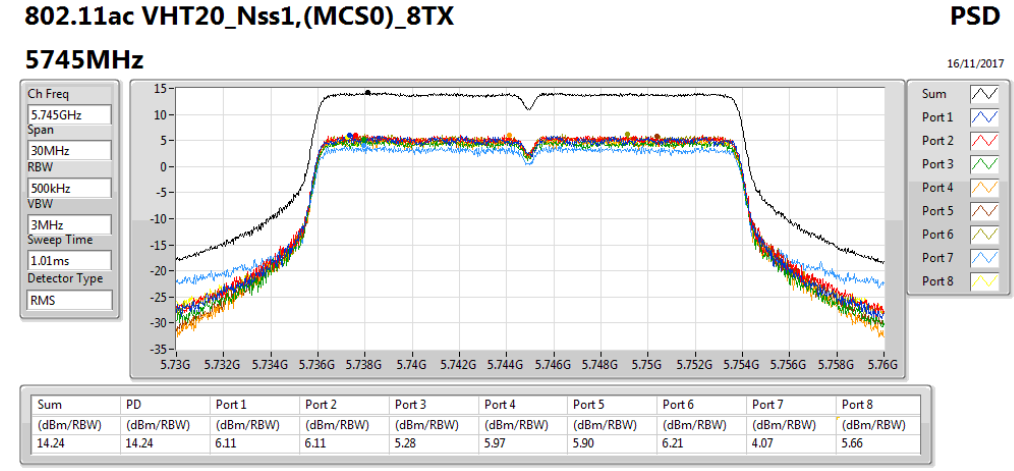
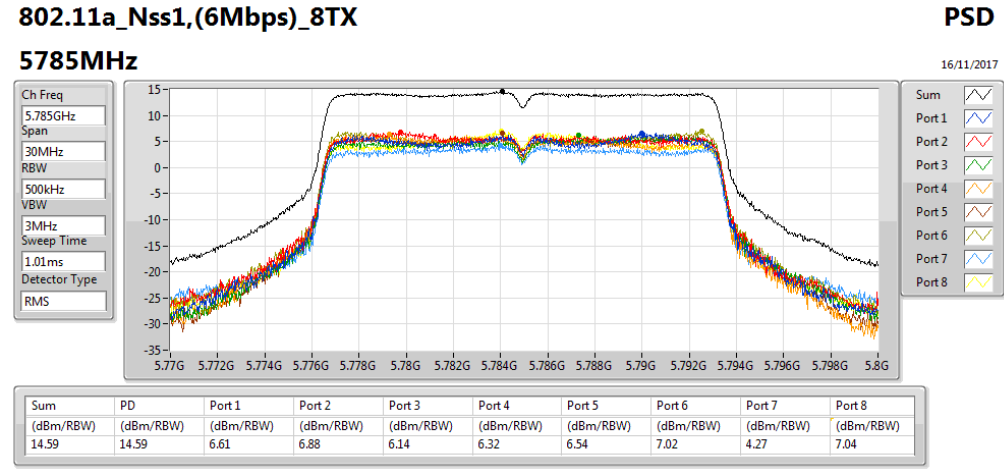
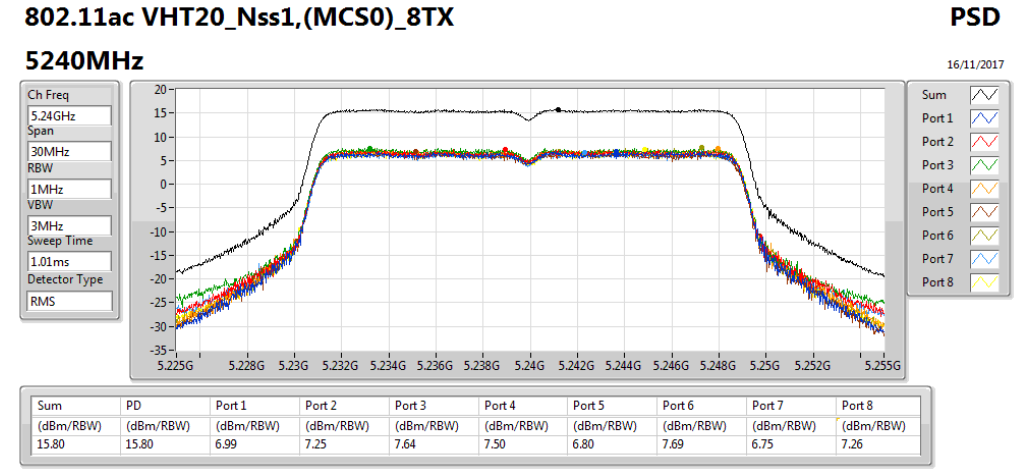
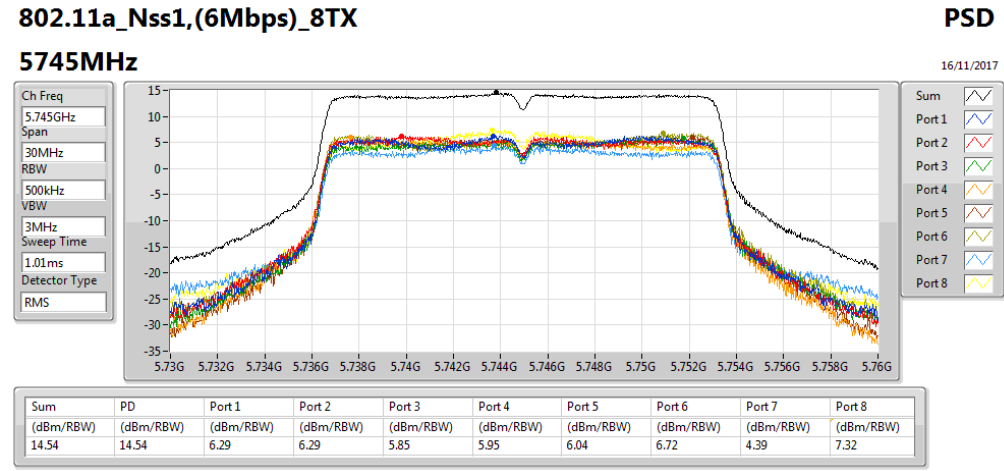
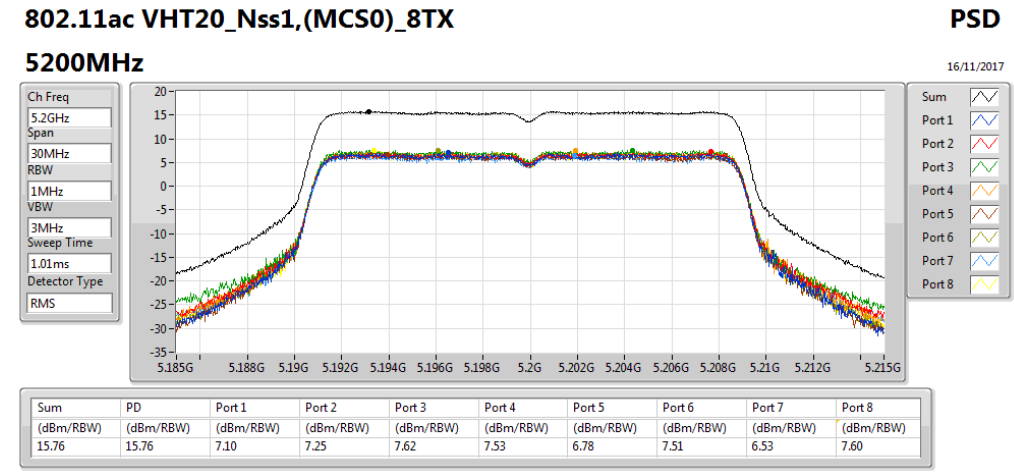
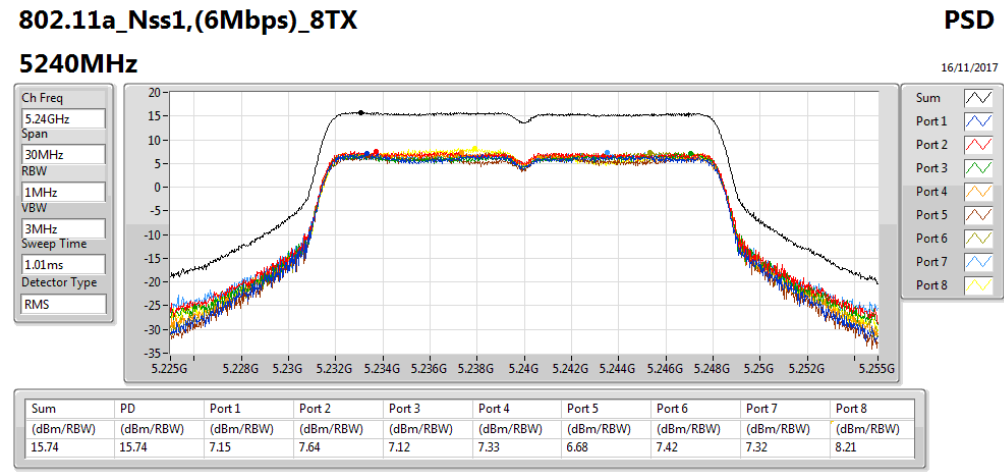
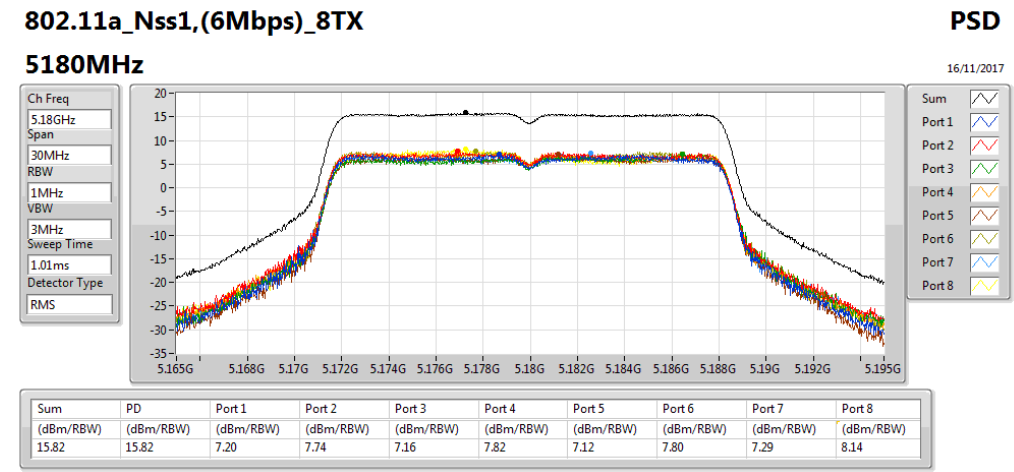
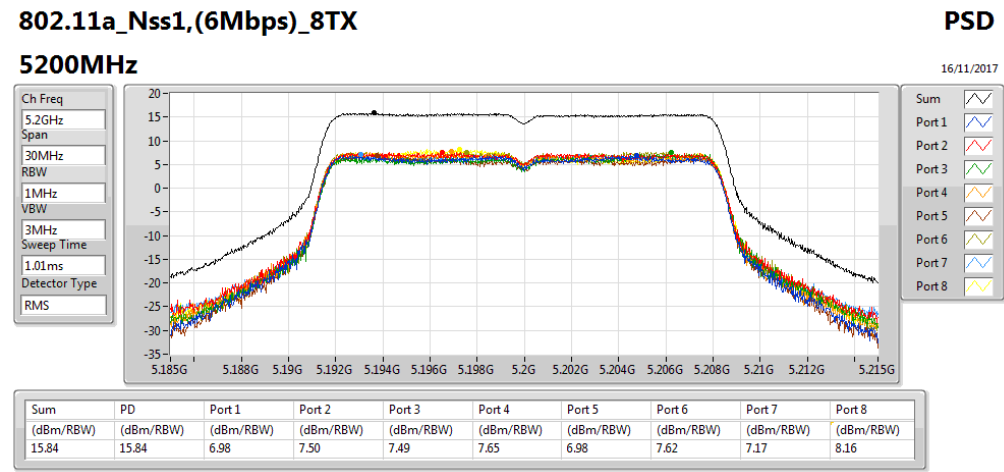
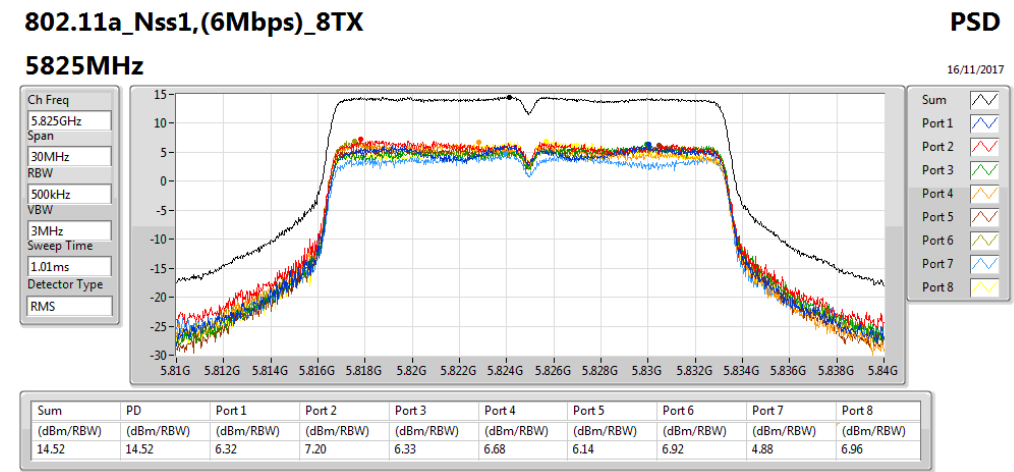
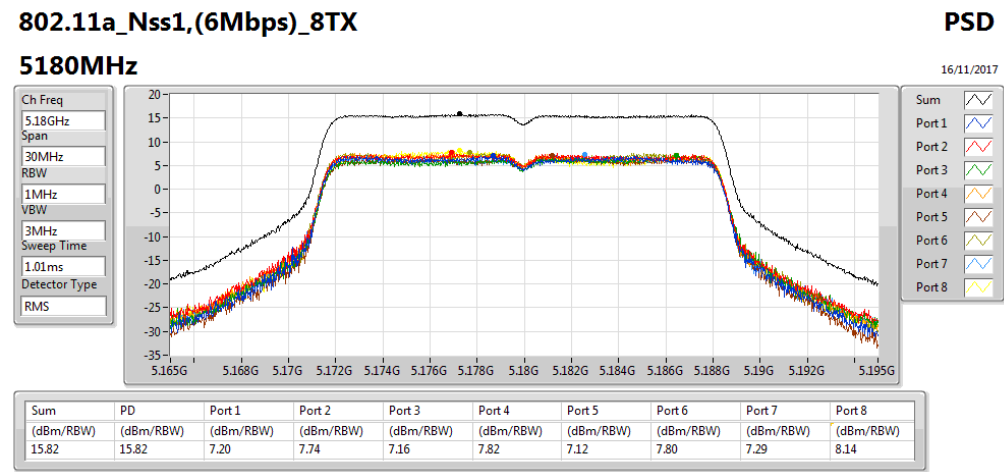
RBW = 500kHz for 5.725-5.85GHz band / 1MHz for other band;



Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	Port 3 (dBm/RBW)	Port 4 (dBm/RBW)	Port 5 (dBm/RBW)	Port 6 (dBm/RBW)	Port 7 (dBm/RBW)	Port 8 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)	EIRP PD (dBm/RBW)	EIRP PD Limit (dBm/RBW)
802.11a_Nss1,(6Mbps)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5180MHz_TnomVnom	Pass	7.00	7.20	7.74	7.16	7.82	7.12	7.80	7.29	8.14	15.82	16.00	22.82	23.00
5200MHz_TnomVnom	Pass	7.00	6.98	7.50	7.49	7.65	6.98	7.62	7.17	8.16	15.84	16.00	22.84	23.00
5240MHz_TnomVnom	Pass	7.00	7.15	7.64	7.12	7.33	6.68	7.42	7.32	8.21	15.74	16.00	22.74	23.00
5745MHz_TnomVnom	Pass	7.50	6.29	6.29	5.85	5.95	6.04	6.72	4.39	7.32	14.54	28.50	22.04	36.00
5785MHz_TnomVnom	Pass	7.50	6.61	6.88	6.14	6.32	6.54	7.02	4.27	7.04	14.59	28.50	22.09	36.00
5825MHz_TnomVnom	Pass	7.50	6.32	7.20	6.33	6.68	6.14	6.92	4.88	6.96	14.52	28.50	22.02	36.00
802.11ac_VHT20_Nss1,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5180MHz_TnomVnom	Pass	7.00	7.03	6.98	7.38	6.76	7.11	7.31	6.81	6.99	15.49	16.00	22.49	23.00
5200MHz_TnomVnom	Pass	7.00	7.10	7.25	7.62	7.53	6.78	7.51	6.53	7.60	15.76	16.00	22.76	23.00
5240MHz_TnomVnom	Pass	7.00	6.99	7.25	7.64	7.50	6.80	7.69	6.75	7.26	15.80	16.00	22.80	23.00
5745MHz_TnomVnom	Pass	7.50	6.11	6.11	5.28	5.97	5.90	6.21	4.07	5.66	14.24	28.50	21.74	36.00
5785MHz_TnomVnom	Pass	7.50	6.06	6.21	5.48	5.48	5.92	6.42	4.00	5.60	14.12	28.50	21.62	36.00
5825MHz_TnomVnom	Pass	7.50	5.99	6.67	5.82	5.67	5.89	6.48	4.89	5.35	14.31	28.50	21.81	36.00
802.11ac_VHT40_Nss1,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5190MHz_TnomVnom	Pass	7.00	1.07	1.11	1.35	1.30	1.01	1.66	0.76	1.76	9.81	16.00	16.81	23.00
5230MHz_TnomVnom	Pass	7.00	4.84	5.07	4.92	4.98	4.60	4.94	4.46	5.11	13.31	16.00	20.31	23.00
5755MHz_TnomVnom	Pass	7.50	3.04	2.82	2.88	2.28	2.94	3.18	2.20	2.37	11.25	28.50	18.75	36.00
5795MHz_TnomVnom	Pass	7.50	3.26	3.32	3.14	2.31	3.05	3.45	1.81	2.32	11.42	28.50	18.92	36.00
802.11ac_VHT80_Nss1,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5210MHz_TnomVnom	Pass	7.00	-1.09	-0.80	-0.81	-1.62	-1.09	-1.23	-1.27	-1.24	7.81	16.00	14.81	23.00
5775MHz_TnomVnom	Pass	7.50	-0.33	-0.60	-0.55	-0.79	-0.29	-0.29	-1.80	-1.21	8.18	28.50	15.68	36.00

DG = Directional Gain; For UNII-1, UNII-2A and UNII-2C, **RBW** = 500kHz for 5.725-5.85GHz band / 1MHz for other band;
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; **Port X** = Port X power density;

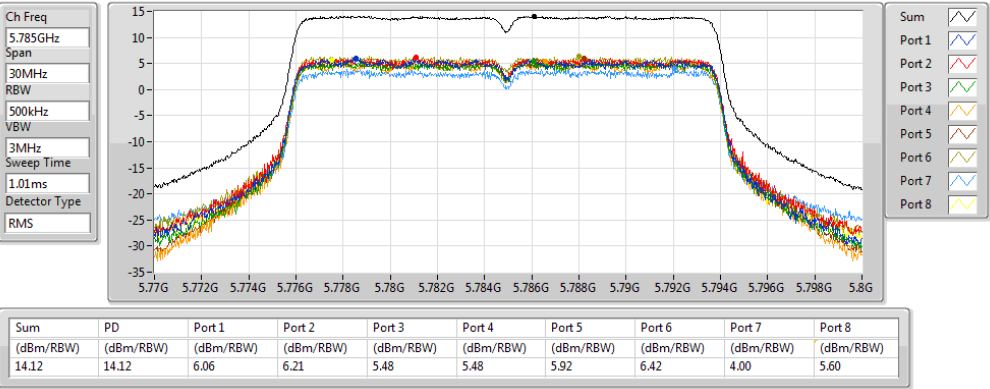


802.11ac VHT20_Nss1,(MCS0)_8TX

PSD

5785MHz

16/11/2017

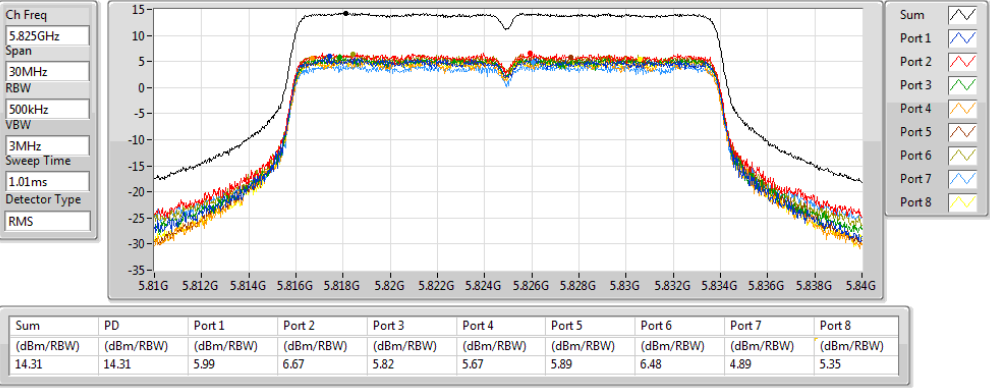


802.11ac VHT20_Nss1,(MCS0)_8TX

PSD

5825MHz

16/11/2017

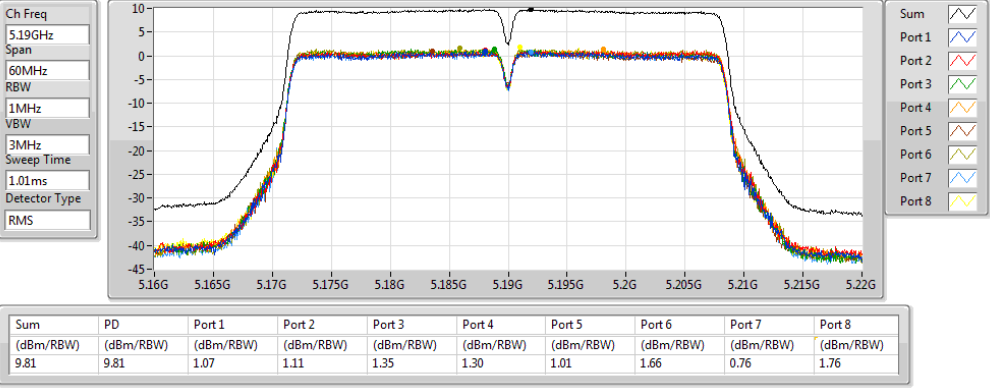


802.11ac VHT40_Nss1,(MCS0)_8TX

PSD

5190MHz

16/11/2017

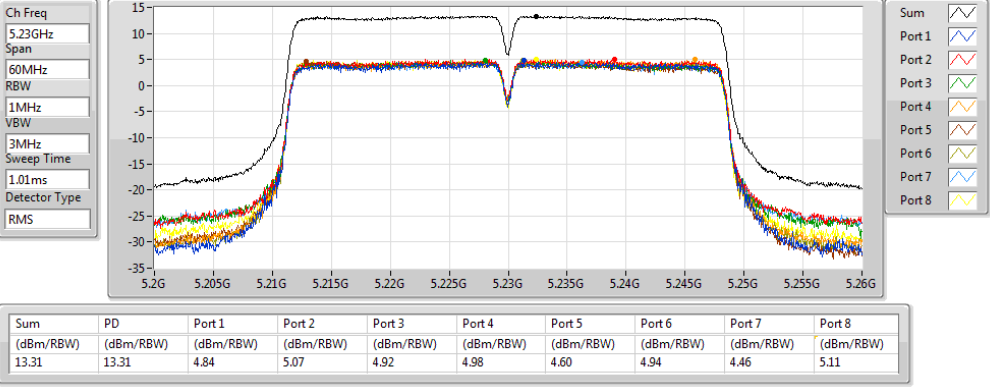


802.11ac VHT40_Nss1,(MCS0)_8TX

PSD

5230MHz

16/11/2017

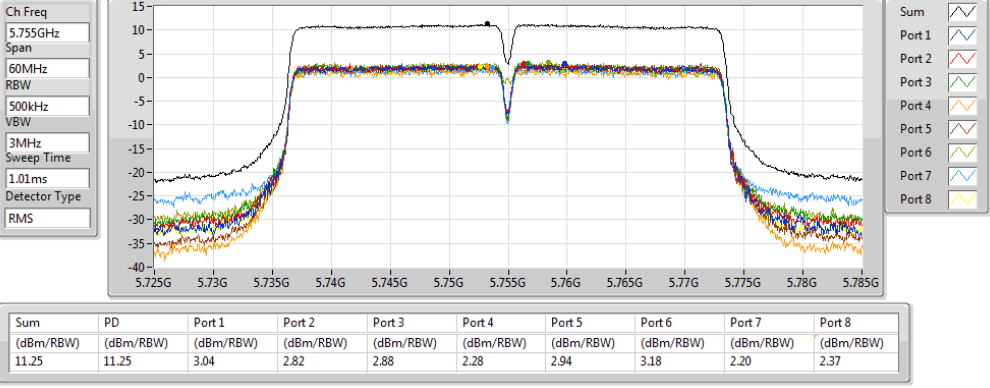


802.11ac VHT40_Nss1,(MCS0)_8TX

PSD

5755MHz

16/11/2017

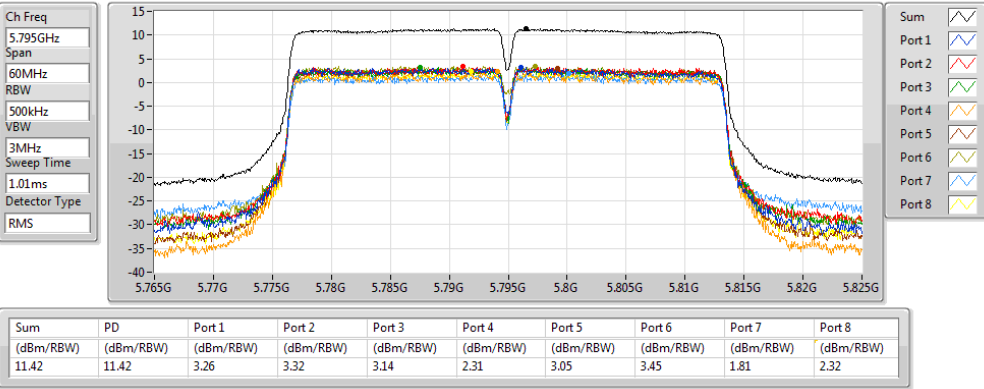


802.11ac VHT40_Nss1,(MCS0)_8TX

PSD

5795MHz

16/11/2017

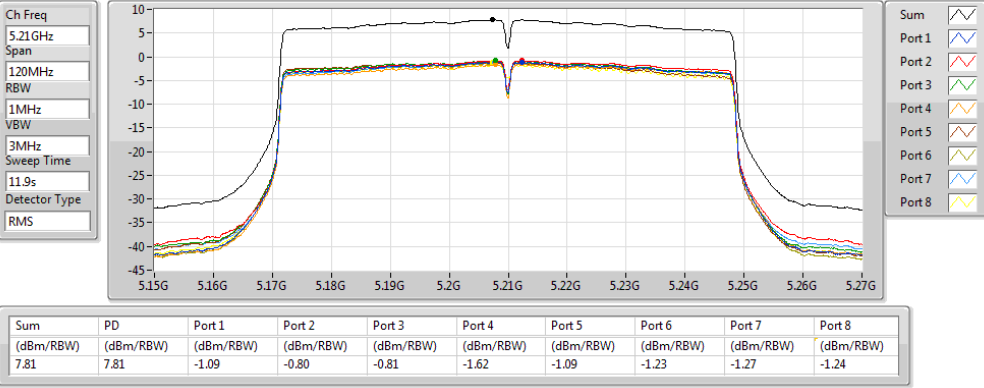


802.11ac VHT80_Nss1,(MCS0)_8TX

PSD

5210MHz

16/11/2017

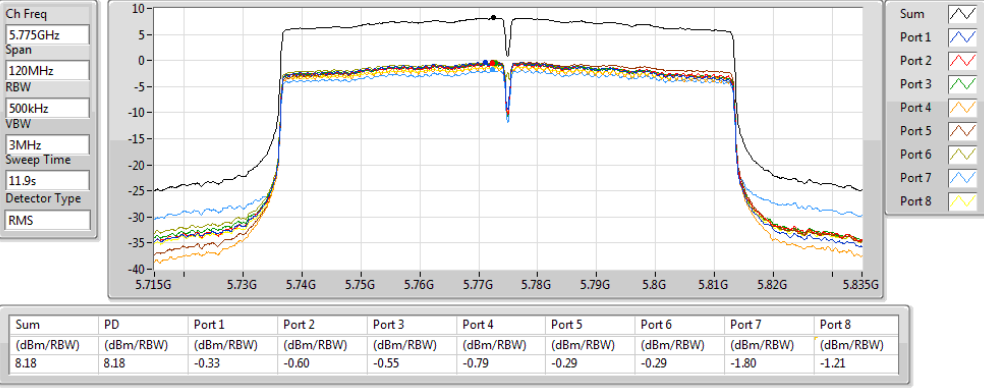


802.11ac VHT80_Nss1,(MCS0)_8TX

PSD

5775MHz

16/11/2017





Summary

Mode	PD (dBm/RBW)	EIRP PD (dBm/RBW)
802.11ac VHT20_Nss2,(MCS0)_8TX	-	-
5.15-5.25GHz	16.40	20.40
5.725-5.85GHz	13.96	18.56
802.11ac VHT40_Nss2,(MCS0)_8TX	-	-
5.15-5.25GHz	13.91	17.91
5.725-5.85GHz	12.43	17.03
802.11ac VHT80_Nss2,(MCS0)_8TX	-	-
5.15-5.25GHz	7.91	11.91
5.725-5.85GHz	10.46	15.06

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



Result

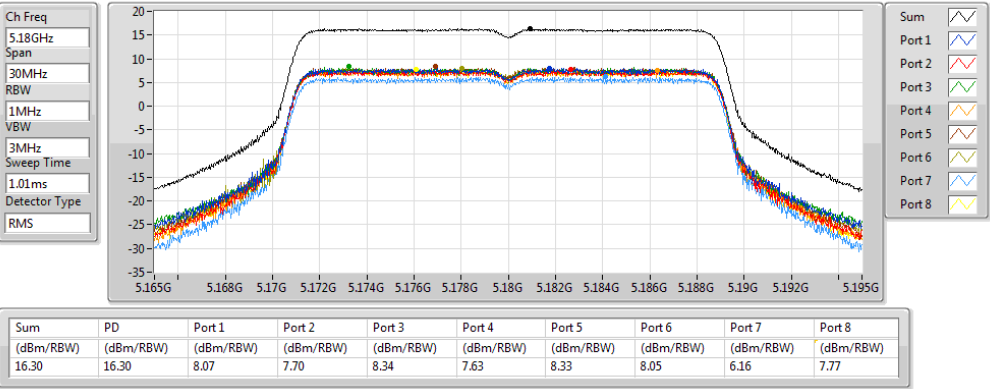
Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	Port 3 (dBm/RBW)	Port 4 (dBm/RBW)	Port 5 (dBm/RBW)	Port 6 (dBm/RBW)	Port 7 (dBm/RBW)	Port 8 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)	EIRP PD (dBm/RBW)	EIRP PD Limit (dBm/RBW)
802.11ac VHT20_Nss2,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5180MHz_TnomVnom	Pass	4.00	8.07	7.70	8.34	7.63	8.33	8.05	6.16	7.77	16.30	17.00	20.30	23.00
5200MHz_TnomVnom	Pass	4.00	8.30	7.80	8.01	7.69	8.29	8.07	4.68	7.77	16.40	17.00	20.40	23.00
5240MHz_TnomVnom	Pass	4.00	7.67	7.86	8.54	7.70	7.90	7.96	7.70	7.25	16.33	17.00	20.33	23.00
5745MHz_TnomVnom	Pass	4.60	6.16	5.92	5.59	4.83	5.32	5.31	4.72	5.41	13.91	30.00	18.51	36.00
5785MHz_TnomVnom	Pass	4.60	6.16	5.55	5.60	4.48	5.47	5.69	4.46	5.63	13.96	30.00	18.56	36.00
5825MHz_TnomVnom	Pass	4.60	6.19	5.28	6.02	4.89	5.37	5.24	4.04	5.37	13.92	30.00	18.52	36.00
802.11ac VHT40_Nss2,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5190MHz_TnomVnom	Pass	4.00	1.88	0.97	2.07	1.13	1.42	1.78	2.16	1.18	10.47	17.00	14.47	23.00
5230MHz_TnomVnom	Pass	4.00	5.63	6.35	6.18	4.77	5.41	5.78	4.48	6.17	13.91	17.00	17.91	23.00
5755MHz_TnomVnom	Pass	4.60	4.31	4.35	4.09	5.26	3.54	2.77	1.90	4.15	12.43	30.00	17.03	36.00
5795MHz_TnomVnom	Pass	4.60	4.27	2.79	4.10	3.87	3.78	3.50	2.00	4.39	11.88	30.00	16.48	36.00
802.11ac VHT80_Nss2,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5210MHz_TnomVnom	Pass	4.00	-0.91	-0.77	-0.27	-0.46	-0.23	-1.59	-0.14	-1.61	7.91	17.00	11.91	23.00
5775MHz_TnomVnom	Pass	4.60	3.00	3.53	2.70	2.03	1.65	0.99	-1.29	0.77	10.46	30.00	15.06	36.00

DG = Directional Gain; For UNII-1, UNII-2A and UNII-2C, RBW = 500kHz for 5.725-5.85GHz band / 1MHz for other band;
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; Port X = Port X power density;

802.11ac VHT20_Nss2,(MCS0)_8TX

PSD

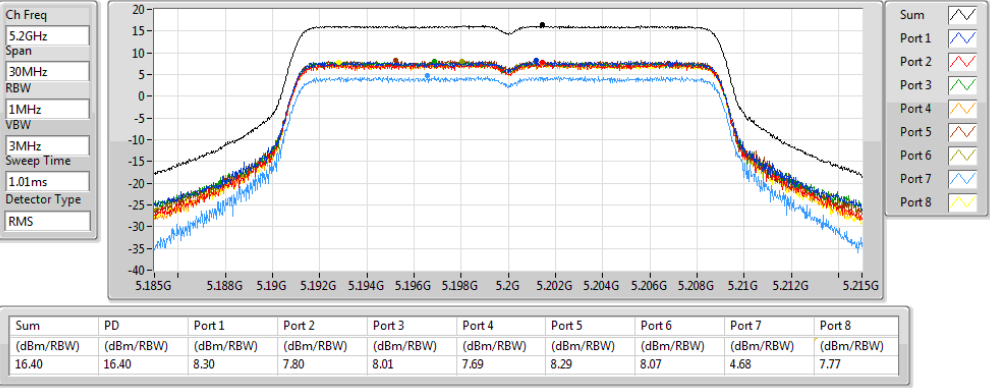
5180MHz



802.11ac VHT20_Nss2,(MCS0)_8TX

PSD

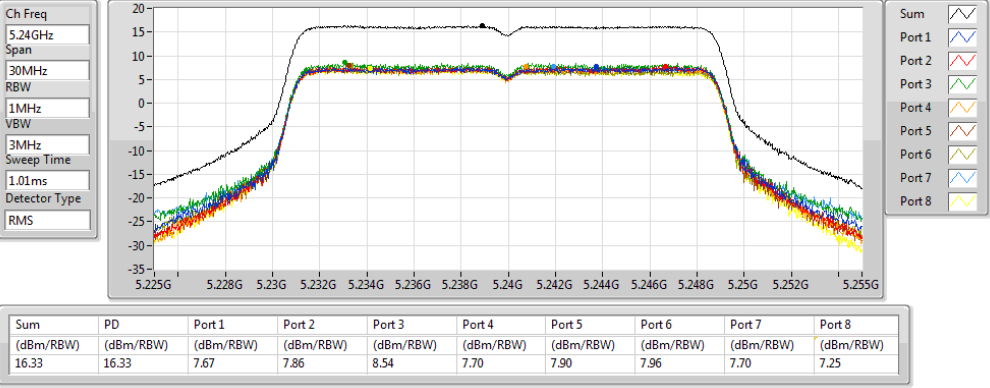
5200MHz



802.11ac VHT20_Nss2,(MCS0)_8TX

PSD

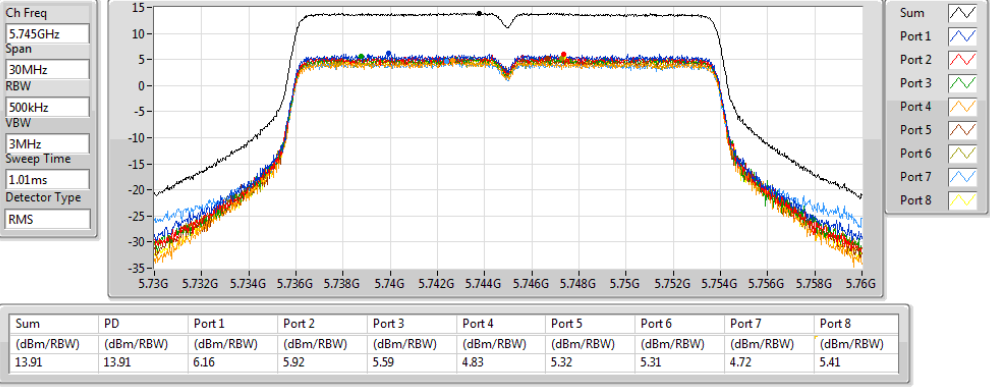
5240MHz



802.11ac VHT20_Nss2,(MCS0)_8TX

PSD

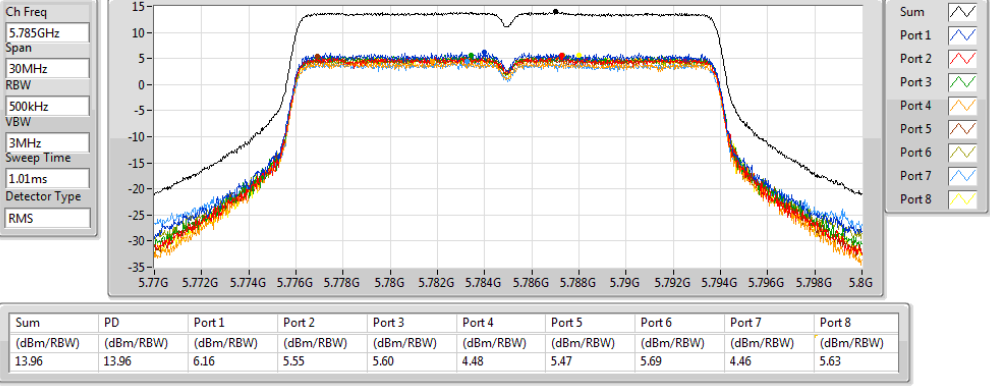
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802.11ac VHT20_Nss2,(MCS0)_8TX

PSD

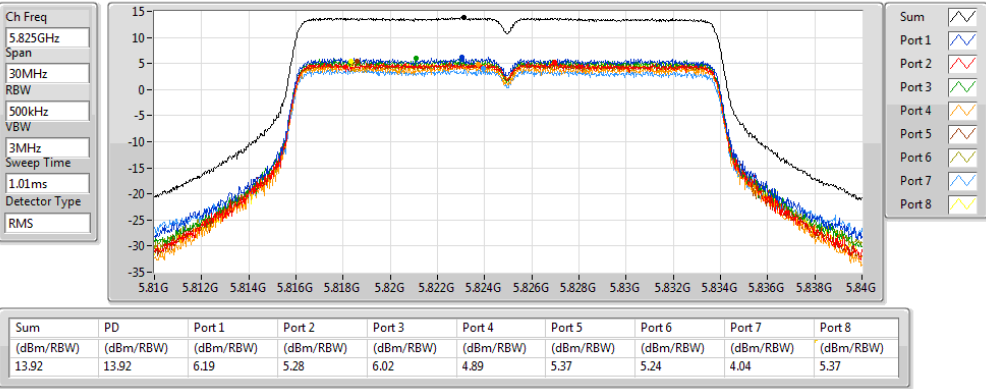
5785MHz



802.11ac VHT20_Nss2,(MCS0)_8TX

PSD

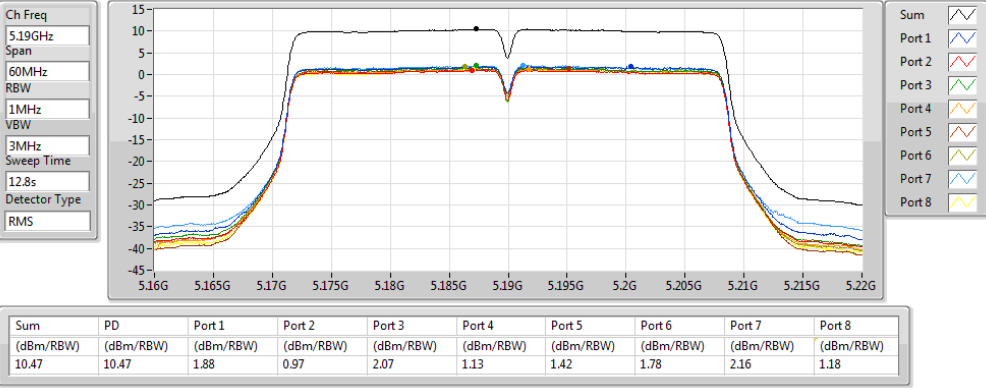
5825MHz



802.11ac VHT40_Nss2,(MCS0)_8TX

PSD

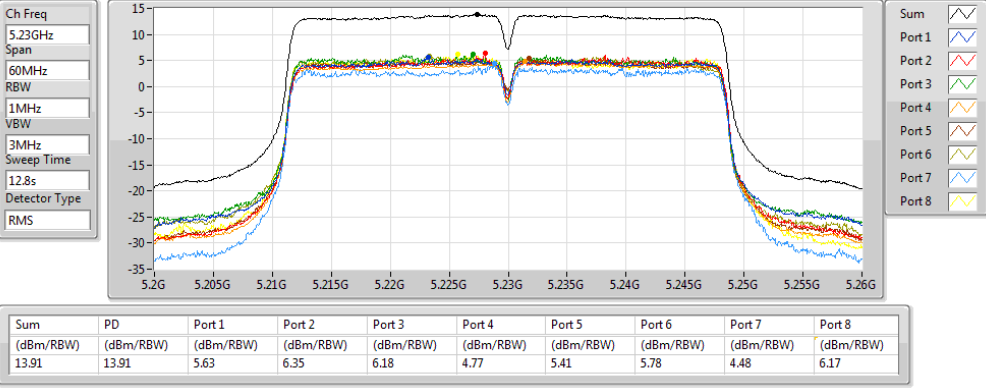
5190MHz



802.11ac VHT40_Nss2,(MCS0)_8TX

PSD

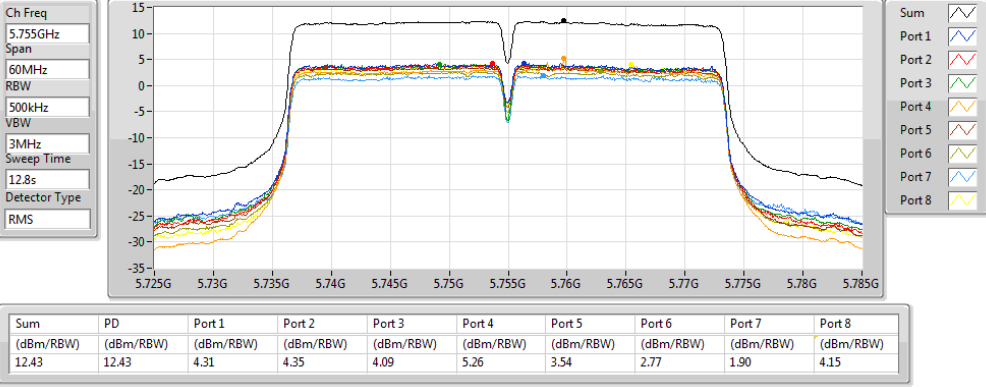
5230MHz



802.11ac VHT40_Nss2,(MCS0)_8TX

PSD

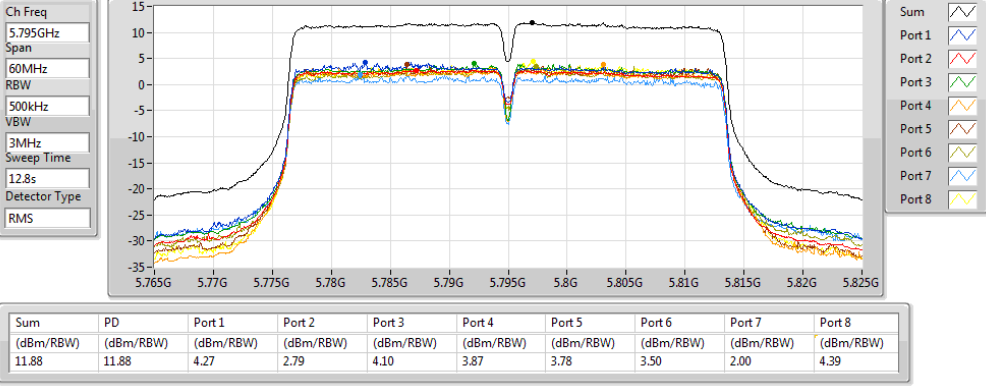
5755MHz



802.11ac VHT40_Nss2,(MCS0)_8TX

PSD

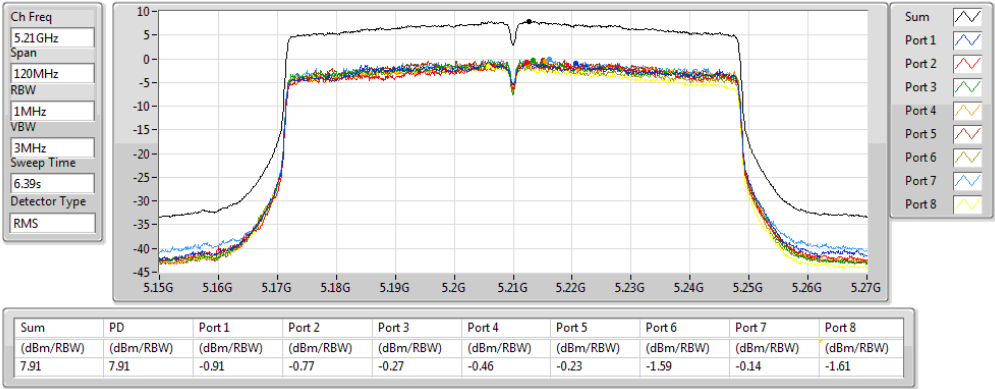
5795MHz



802.11ac VHT80_Nss2,(MCS0)_8TX

PSD

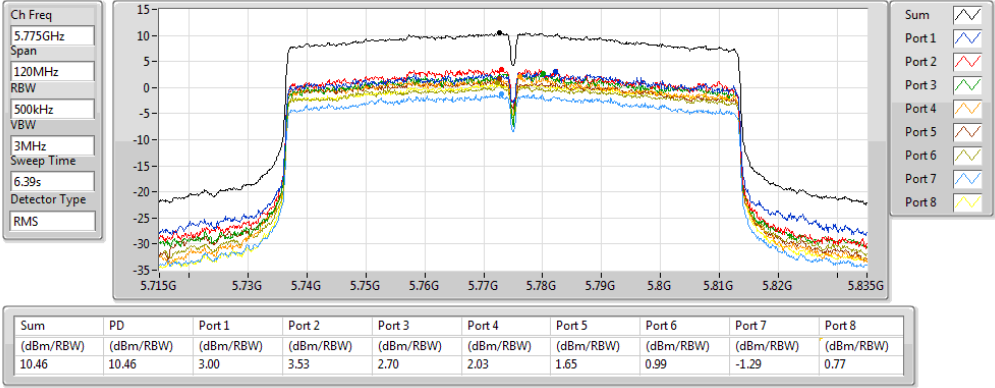
5210MHz



802.11ac VHT80_Nss2,(MCS0)_8TX

PSD

5775MHz





Summary

Mode	PD (dBm/RBW)	EIRP PD (dBm/RBW)
5.15-5.25GHz	-	-
802.11ac VHT20-BF_Nss1,(MCS0)_8TX	15.17	22.17
802.11ac VHT40-BF_Nss1,(MCS0)_8TX	12.53	19.53
802.11ac VHT80-BF_Nss1,(MCS0)_8TX	10.53	17.53
5.725-5.85GHz	-	-
802.11ac VHT20-BF_Nss1,(MCS0)_8TX	13.59	21.09
802.11ac VHT40-BF_Nss1,(MCS0)_8TX	9.88	17.38
802.11ac VHT80-BF_Nss1,(MCS0)_8TX	7.86	15.36

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



Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	Port 3 (dBm/RBW)	Port 4 (dBm/RBW)	Port 5 (dBm/RBW)	Port 6 (dBm/RBW)	Port 7 (dBm/RBW)	Port 8 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)	EIRP PD (dBm/RBW)	EIRP PD Limit (dBm/RBW)
802.11ac VHT20-BF_Nss1,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	7.00	6.61	6.50	7.19	6.21	5.83	6.68	6.13	6.49	15.07	16.00	22.07	23.00
5200MHz	Pass	7.00	6.47	6.77	7.38	6.58	6.42	6.75	6.19	6.62	15.17	16.00	22.17	23.00
5240MHz	Pass	7.00	6.47	6.61	7.47	6.28	6.44	6.32	6.51	6.60	15.09	16.00	22.09	23.00
5745MHz	Pass	7.50	3.47	3.00	2.86	2.75	4.17	4.65	3.27	4.13	12.00	28.50	19.50	36.00
5785MHz	Pass	7.50	5.51	5.18	4.65	4.62	5.18	5.69	3.83	4.63	13.35	28.50	20.85	36.00
5825MHz	Pass	7.50	5.55	5.80	5.23	4.12	4.78	5.83	4.45	4.68	13.59	28.50	21.09	36.00
802.11ac VHT40-BF_Nss1,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	7.00	4.02	3.87	4.05	3.90	3.81	4.39	3.72	4.36	12.53	16.00	19.53	23.00
5230MHz	Pass	7.00	4.07	3.77	3.94	3.88	3.45	4.17	4.08	4.15	12.51	16.00	19.51	23.00
5755MHz	Pass	7.50	2.41	1.55	0.99	1.47	1.68	1.87	0.64	0.59	9.81	28.50	17.31	36.00
5795MHz	Pass	7.50	2.28	1.54	1.09	1.29	1.68	2.46	1.03	0.74	9.88	28.50	17.38	36.00
802.11ac VHT80-BF_Nss1,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	7.00	2.25	1.51	2.07	1.72	1.35	2.21	1.80	1.65	10.53	16.00	17.53	23.00
5775MHz	Pass	7.50	-0.26	-0.64	-1.03	-0.70	-0.11	-0.28	-1.54	-1.29	7.86	28.50	15.36	36.00

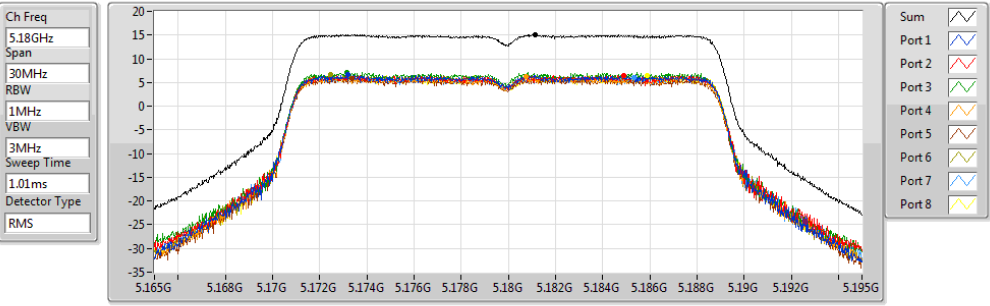
DG = Directional Gain; For UNII-1, UNII-2A and UNII-2C, RBW = 500kHz for 5.725-5.85GHz band / 1MHz for other band;
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; Port X = Port X power density;

802.11ac VHT20-BF_Nss1,(MCS0)_8TX

PSD

5180MHz

17/11/2017



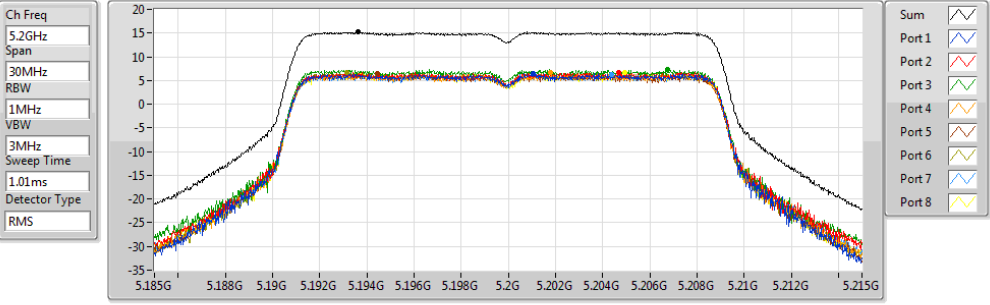
Sum	PD	Port 1	Port 2	Port 3	Port 4	Port 5	Port 6	Port 7	Port 8
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
15.07	15.07	6.61	6.50	7.19	6.21	5.83	6.68	6.13	6.49

802.11ac VHT20-BF_Nss1,(MCS0)_8TX

PSD

5200MHz

17/11/2017



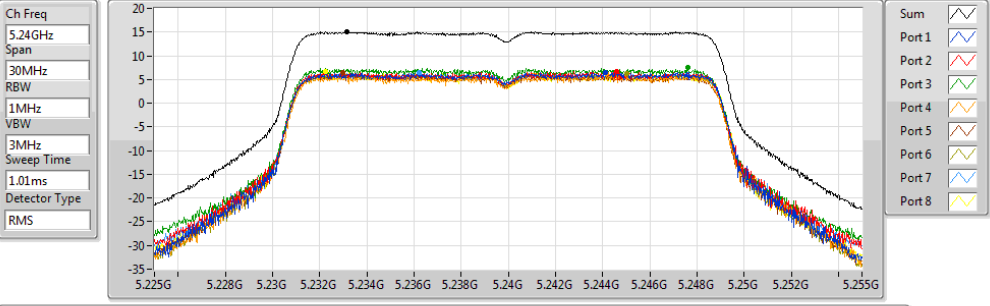
Sum	PD	Port 1	Port 2	Port 3	Port 4	Port 5	Port 6	Port 7	Port 8
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
15.17	15.17	6.47	6.77	7.38	6.58	6.42	6.75	6.19	6.62

802.11ac VHT20-BF_Nss1,(MCS0)_8TX

PSD

5240MHz

17/11/2017



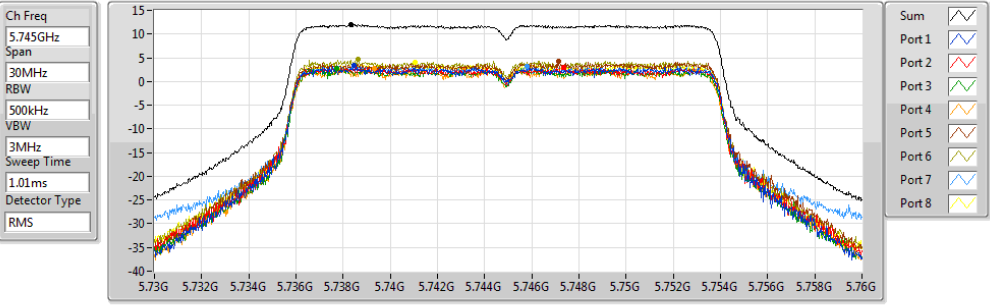
Sum	PD	Port 1	Port 2	Port 3	Port 4	Port 5	Port 6	Port 7	Port 8
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
15.09	15.09	6.47	6.61	7.47	6.28	6.44	6.32	6.51	6.60

802.11ac VHT20-BF_Nss1,(MCS0)_8TX

PSD

5745MHz

17/11/2017



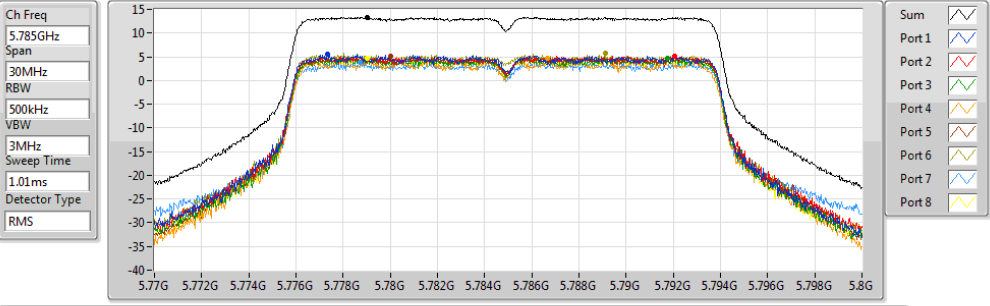
Sum	PD	Port 1	Port 2	Port 3	Port 4	Port 5	Port 6	Port 7	Port 8
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
12.00	12.00	3.47	3.00	2.86	2.75	4.17	4.65	3.27	4.13

802.11ac VHT20-BF_Nss1,(MCS0)_8TX

PSD

5785MHz

17/11/2017



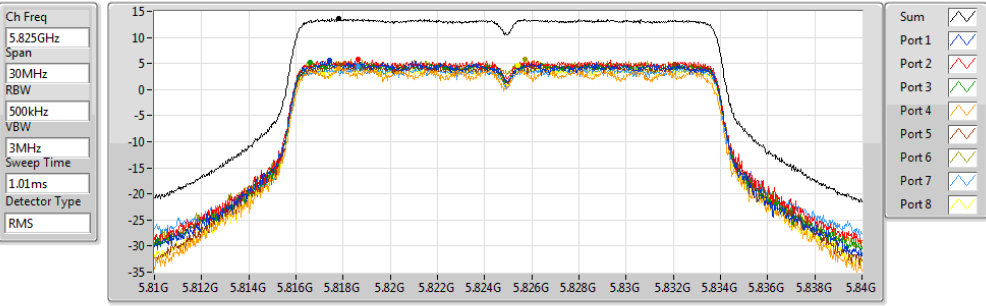
Sum	PD	Port 1	Port 2	Port 3	Port 4	Port 5	Port 6	Port 7	Port 8
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
13.35	13.35	5.51	5.18	4.65	4.62	5.18	5.69	3.83	4.63

802.11ac VHT20-BF_Nss1,(MCS0)_8TX

PSD

5825MHz

17/11/2017



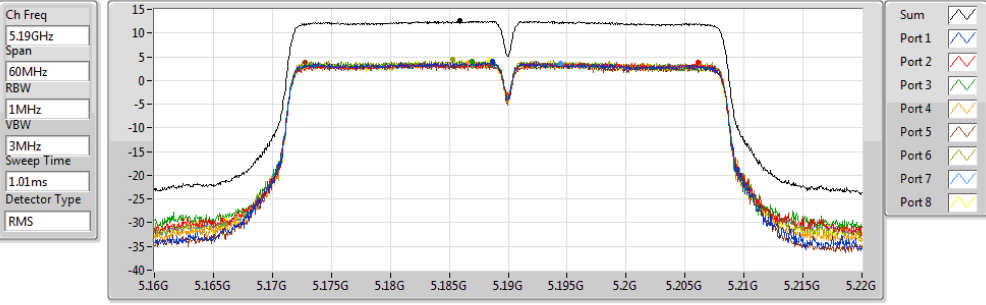
Sum	PD	Port 1	Port 2	Port 3	Port 4	Port 5	Port 6	Port 7	Port 8
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
13.59	13.59	5.55	5.80	5.23	4.12	4.78	5.83	4.45	4.68

802.11ac VHT40-BF_Nss1,(MCS0)_8TX

PSD

5190MHz

17/11/2017



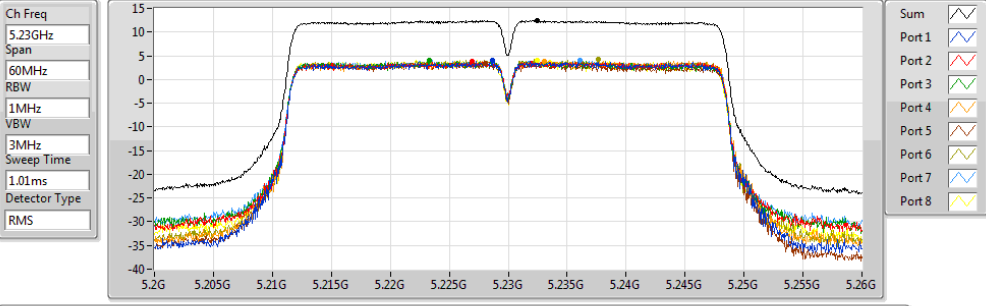
Sum	PD	Port 1	Port 2	Port 3	Port 4	Port 5	Port 6	Port 7	Port 8
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
12.53	12.53	4.02	3.87	4.05	3.90	3.81	4.39	3.72	4.36

802.11ac VHT40-BF_Nss1,(MCS0)_8TX

PSD

5230MHz

17/11/2017



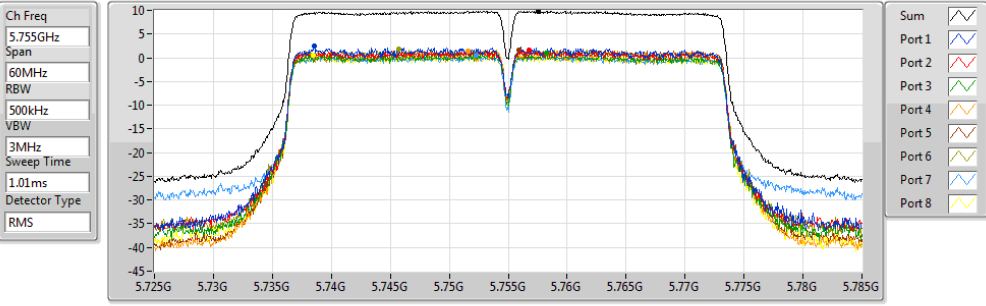
Sum	PD	Port 1	Port 2	Port 3	Port 4	Port 5	Port 6	Port 7	Port 8
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
12.51	12.51	4.07	3.77	3.94	3.88	3.45	4.17	4.08	4.15

802.11ac VHT40-BF_Nss1,(MCS0)_8TX

PSD

5755MHz

17/11/2017



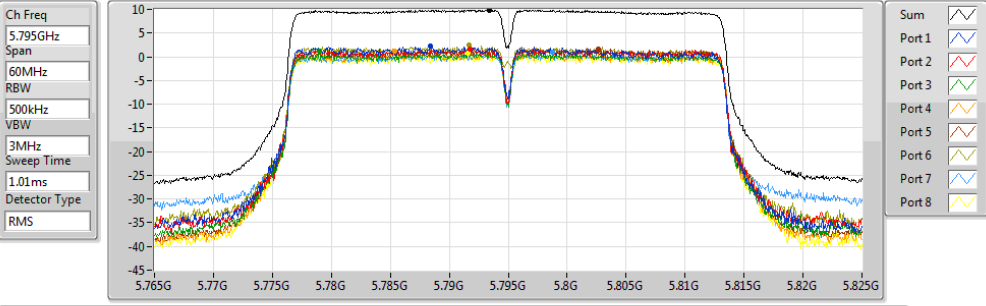
Sum	PD	Port 1	Port 2	Port 3	Port 4	Port 5	Port 6	Port 7	Port 8
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
9.81	9.81	2.41	1.55	0.99	1.47	1.68	1.87	0.64	0.59

802.11ac VHT40-BF_Nss1,(MCS0)_8TX

PSD

5795MHz

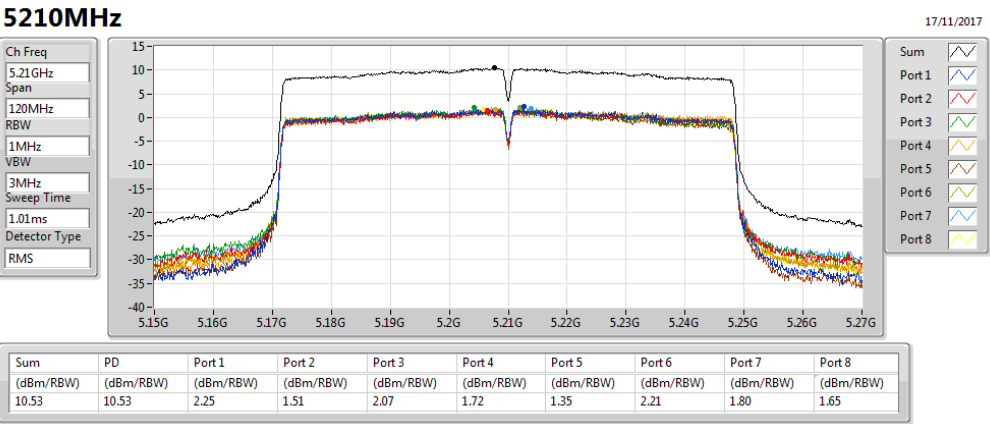
17/11/2017



Sum	PD	Port 1	Port 2	Port 3	Port 4	Port 5	Port 6	Port 7	Port 8
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
9.88	9.88	2.28	1.54	1.09	1.29	1.68	2.46	1.03	0.74

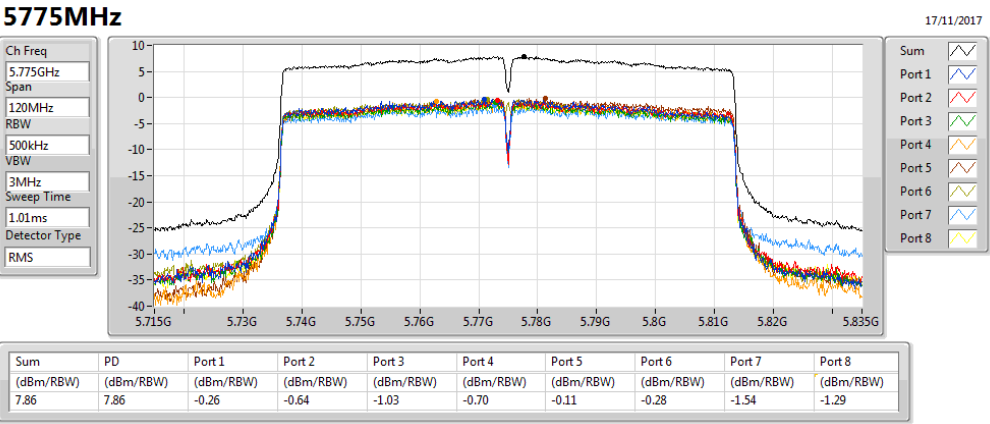
802.11ac VHT80-BF_Nss1,(MCS0)_8TX

PSD



802.11ac VHT80-BF_Nss1,(MCS0)_8TX

PSD





Summary

Mode	PD (dBm/RBW)	EIRP PD (dBm/RBW)
5.15-5.25GHz	-	-
802.11ac VHT20-BF_Nss2,(MCS0)_8TX	16.12	20.12
802.11ac VHT40-BF_Nss2,(MCS0)_8TX	13.14	17.14
802.11ac VHT80-BF_Nss2,(MCS0)_8TX	10.89	14.89
5.725-5.85GHz	-	-
802.11ac VHT20-BF_Nss2,(MCS0)_8TX	14.90	19.50
802.11ac VHT40-BF_Nss2,(MCS0)_8TX	12.01	16.61
802.11ac VHT80-BF_Nss2,(MCS0)_8TX	9.14	13.74

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



Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	Port 3 (dBm/RBW)	Port 4 (dBm/RBW)	Port 5 (dBm/RBW)	Port 6 (dBm/RBW)	Port 7 (dBm/RBW)	Port 8 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)	EIRP PD (dBm/RBW)	EIRP PD Limit (dBm/RBW)
802.11ac VHT20-BF_Nss2,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	4.00	6.86	7.32	8.44	7.47	6.67	6.68	6.82	6.42	15.48	17.00	19.48	23.00
5200MHz	Pass	4.00	7.06	7.33	8.75	7.53	7.09	7.74	7.66	7.52	16.00	17.00	20.00	23.00
5240MHz	Pass	4.00	7.63	7.35	8.68	7.22	7.84	7.83	7.40	7.75	16.12	17.00	20.12	23.00
5745MHz	Pass	4.60	6.94	6.67	6.87	5.81	6.35	6.99	5.35	7.86	14.90	30.00	19.50	36.00
5785MHz	Pass	4.60	6.82	5.91	6.14	5.44	5.24	5.64	3.09	5.76	13.64	30.00	18.24	36.00
5825MHz	Pass	4.60	5.34	5.28	5.45	4.57	4.42	3.84	2.32	4.32	12.86	30.00	17.46	36.00
802.11ac VHT40-BF_Nss2,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	4.00	3.99	3.81	4.62	4.26	5.27	5.47	4.62	5.70	13.14	17.00	17.14	23.00
5230MHz	Pass	4.00	4.45	4.05	4.45	4.41	4.96	5.56	3.18	5.62	12.98	17.00	16.98	23.00
5755MHz	Pass	4.60	4.75	4.22	3.93	4.34	3.28	3.63	1.17	3.57	12.01	30.00	16.61	36.00
5795MHz	Pass	4.60	4.03	3.65	3.17	3.70	4.03	4.40	0.70	4.22	11.86	30.00	16.46	36.00
802.11ac VHT80-BF_Nss2,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	4.00	1.86	1.56	1.64	2.19	2.03	2.99	0.25	3.31	10.89	17.00	14.89	23.00
5775MHz	Pass	4.60	1.39	0.72	0.33	0.90	0.43	0.80	-1.82	1.07	9.14	30.00	13.74	36.00

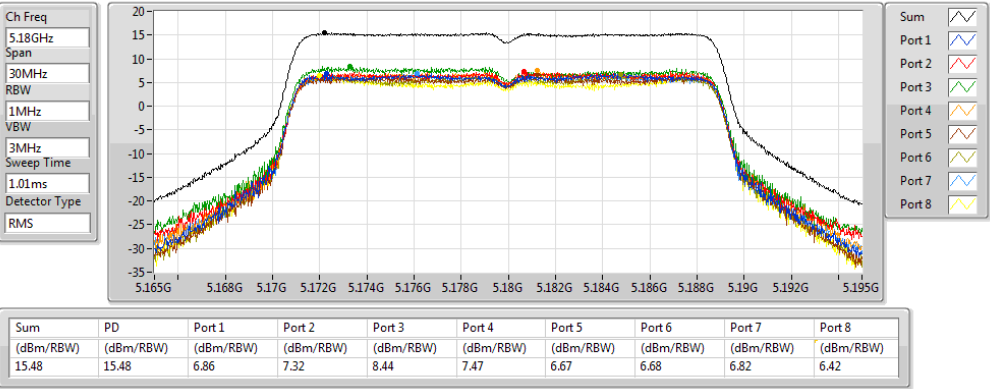
DG = Directional Gain; For UNII-1, UNII-2A and UNII-2C, RBW = 500kHz for 5.725-5.85GHz band / 1MHz for other band;
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; Port X = Port X power density;

802.11ac VHT20-BF_Nss2,(MCS0)_8TX

PSD

5180MHz

17/11/2017

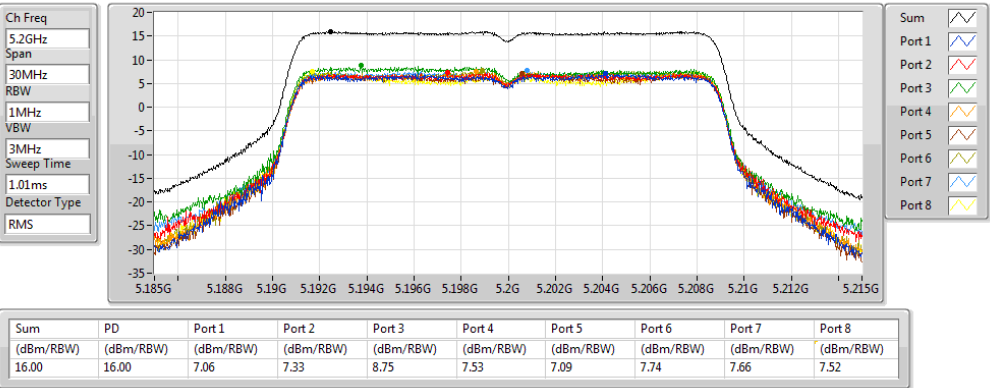


802.11ac VHT20-BF_Nss2,(MCS0)_8TX

PSD

5200MHz

17/11/2017

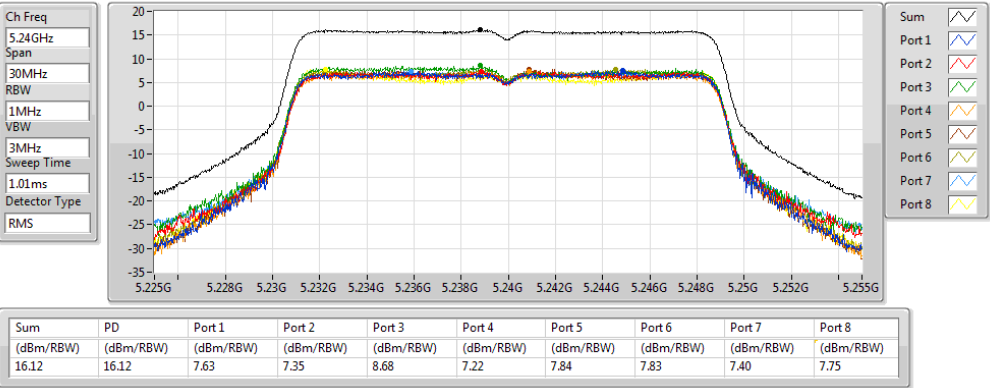


802.11ac VHT20-BF_Nss2,(MCS0)_8TX

PSD

5240MHz

17/11/2017

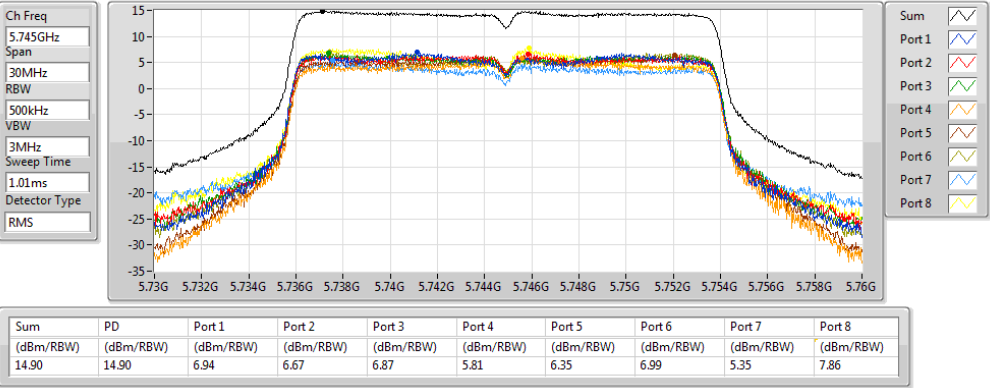


802.11ac VHT20-BF_Nss2,(MCS0)_8TX

PSD

5745MHz

17/11/2017

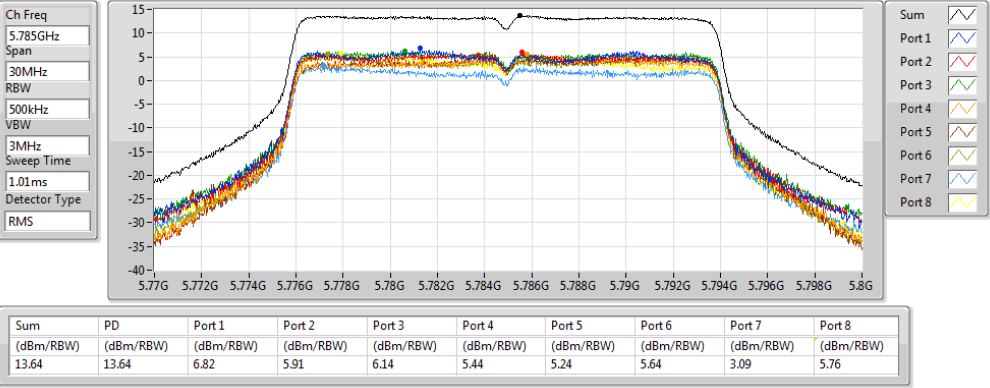


802.11ac VHT20-BF_Nss2,(MCS0)_8TX

PSD

5785MHz

17/11/2017

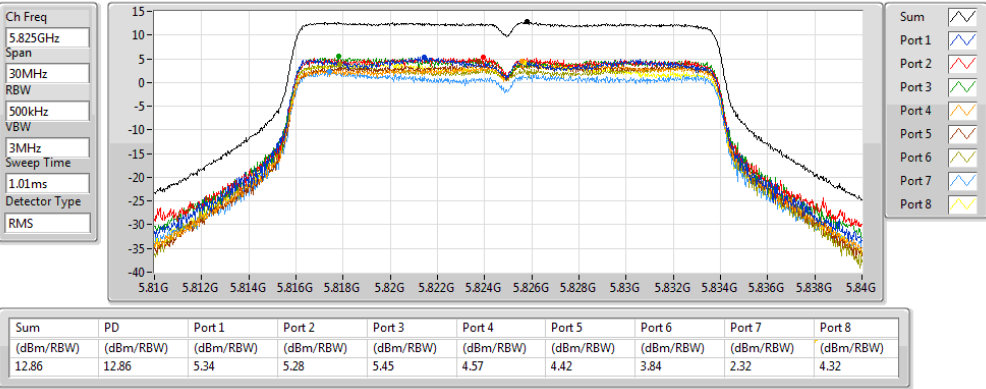


802.11ac VHT20-BF_Nss2,(MCS0)_8TX

PSD

5825MHz

17/11/2017

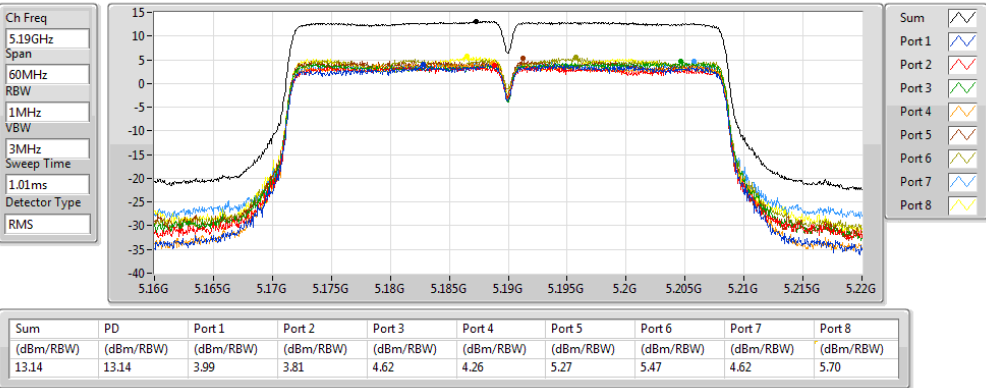


802.11ac VHT40-BF_Nss2,(MCS0)_8TX

PSD

5190MHz

17/11/2017

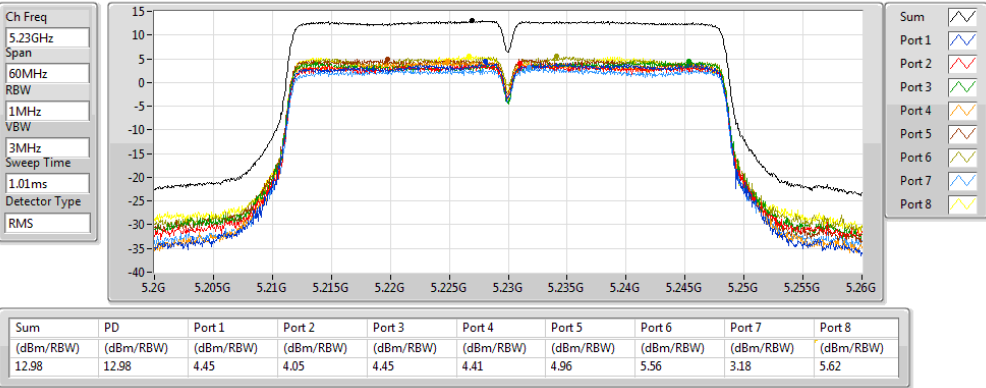


802.11ac VHT40-BF_Nss2,(MCS0)_8TX

PSD

5230MHz

17/11/2017

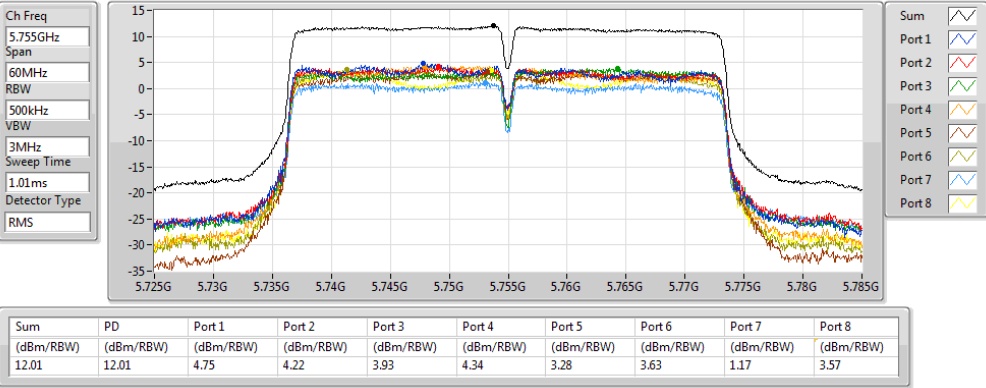


802.11ac VHT40-BF_Nss2,(MCS0)_8TX

PSD

5755MHz

17/11/2017

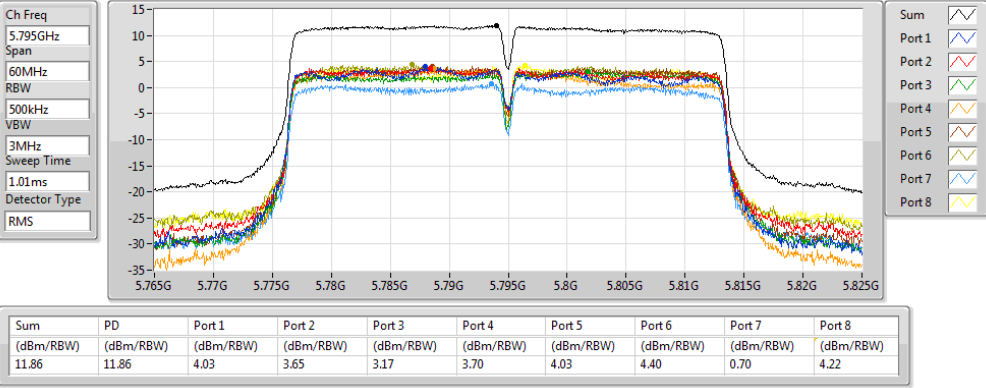


802.11ac VHT40-BF_Nss2,(MCS0)_8TX

PSD

5795MHz

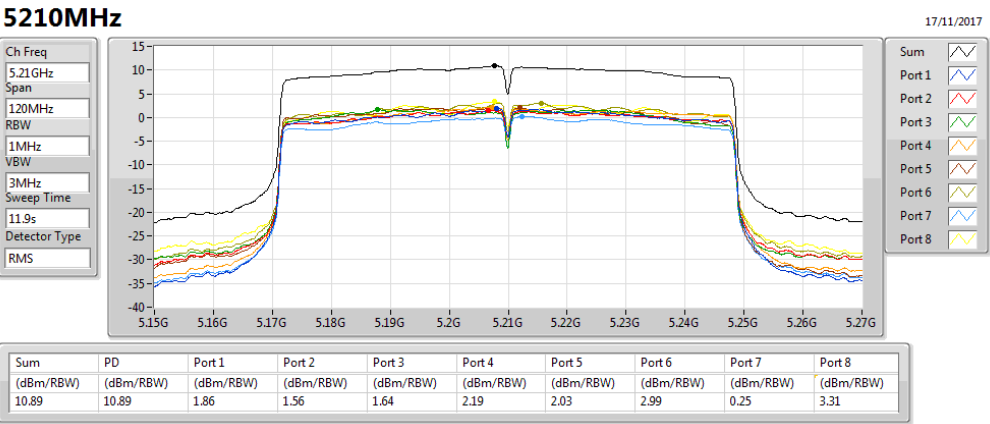
17/11/2017





802.11ac VHT80-BF_Nss2,(MCS0)_8TX

PSD



802.11ac VHT80-BF_Nss2,(MCS0)_8TX

PSD

