

Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)	Port 3-N dB (Hz)	Port 3-OBW (Hz)	Port 4-N dB (Hz)	Port 4-OBW (Hz)
802.11a_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	Inf	21.55M	16.567M	21.525M	16.567M	21.675M	16.542M	21.575M	16.567M
5200MHz	Pass	Inf	27.275M	16.642M	27.1M	16.617M	36.425M	16.642M	22.025M	16.542M
5240MHz	Pass	Inf	27M	16.617M	26.375M	16.617M	27.35M	16.592M	22.125M	16.592M
5745MHz	Pass	500k	16.3M	28.161M	16.3M	25.612M	16.325M	27.561M	16.325M	26.537M
5785MHz	Pass	500k	16.3M	21.889M	16.3M	20.99M	16.275M	23.088M	16.3M	21.114M
5825MHz	Pass	500k	16.3M	18.416M	16.3M	17.566M	16.275M	19.365M	16.325M	17.266M
802.11ax HEW20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	Inf	22.35M	18.941M	21.675M	18.991M	22.775M	18.941M	21.225M	18.991M
5200MHz	Pass	Inf	42M	19.3M	45.25M	19.275M	41.9M	19.25M	41.6M	19.25M
5240MHz	Pass	Inf	28.55M	18.966M	36.175M	19.015M	29.725M	18.991M	23M	18.991M
5745MHz	Pass	500k	18.75M	25.312M	18.65M	25.387M	18.775M	26.587M	18.775M	26.512M
5785MHz	Pass	500k	18.8M	19.74M	18.775M	20.69M	18.725M	21.339M	18.925M	19.915M
5825MHz	Pass	500k	18.65M	19.265M	18.85M	19.265M	18.9M	19.49M	18.875M	19.19M
802.11ax HEW40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	Inf	39.9M	37.531M	40.2M	37.581M	40.15M	37.581M	40M	37.481M
5230MHz	Pass	Inf	39.95M	37.531M	40.1M	37.631M	40.35M	37.631M	40.35M	37.631M
5755MHz	Pass	500k	37.5M	37.781M	37.4M	37.731M	37.1M	37.731M	37.25M	37.731M
5795MHz	Pass	500k	37.5M	37.931M	36.55M	37.981M	37.2M	37.931M	37.3M	37.881M
802.11ax HEW80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	Inf	81.4M	76.962M	81.4M	76.862M	81.2M	77.261M	81.7M	77.061M
5775MHz	Pass	500k	76.8M	77.261M	77M	76.762M	76.7M	77.161M	76.5M	76.962M

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

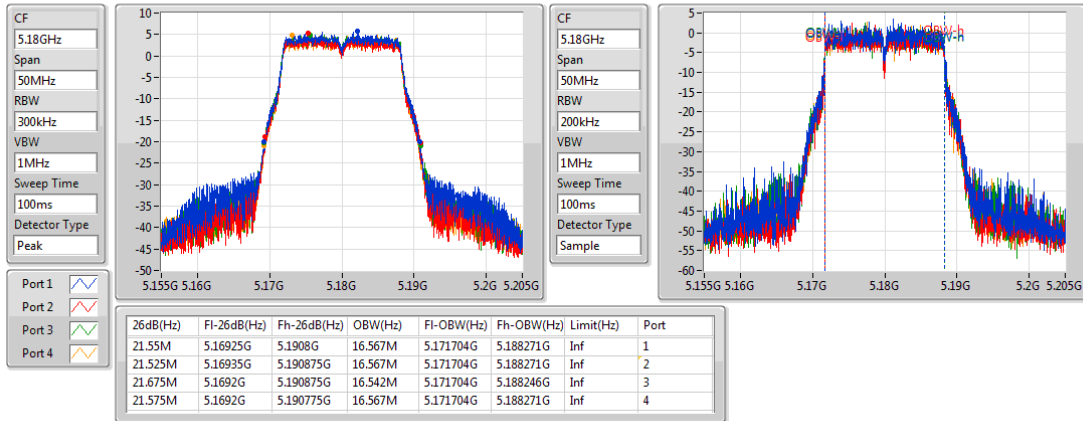
Port X-OBW = Port X 99% occupied bandwidth;

802.11a_Nss1,(6Mbps)_4TX

EBW

5180MHz

28/01/2019

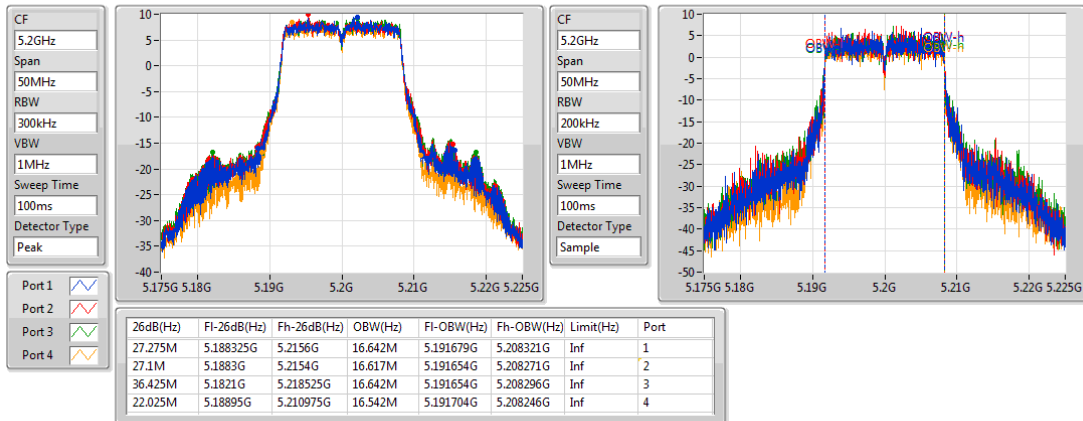


802.11a_Nss1,(6Mbps)_4TX

EBW

5200MHz

28/01/2019

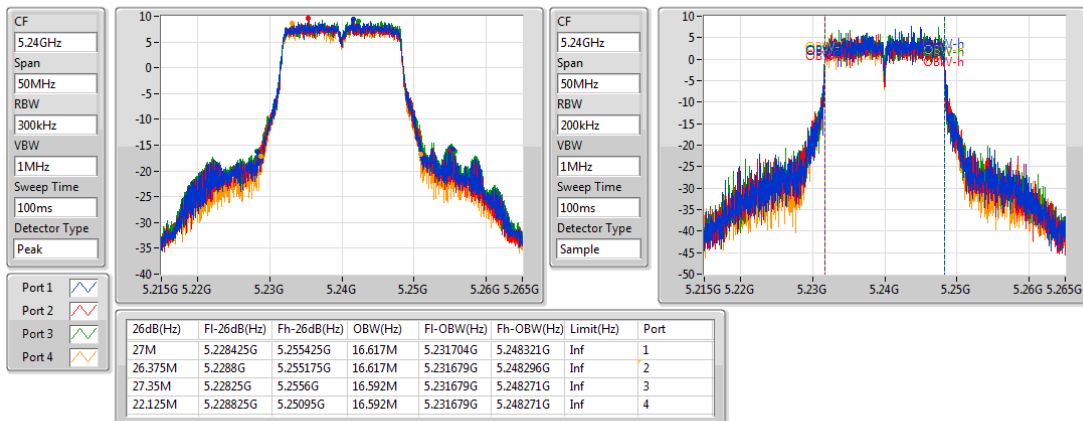


802.11a_Nss1,(6Mbps)_4TX

EBW

5240MHz

28/01/2019

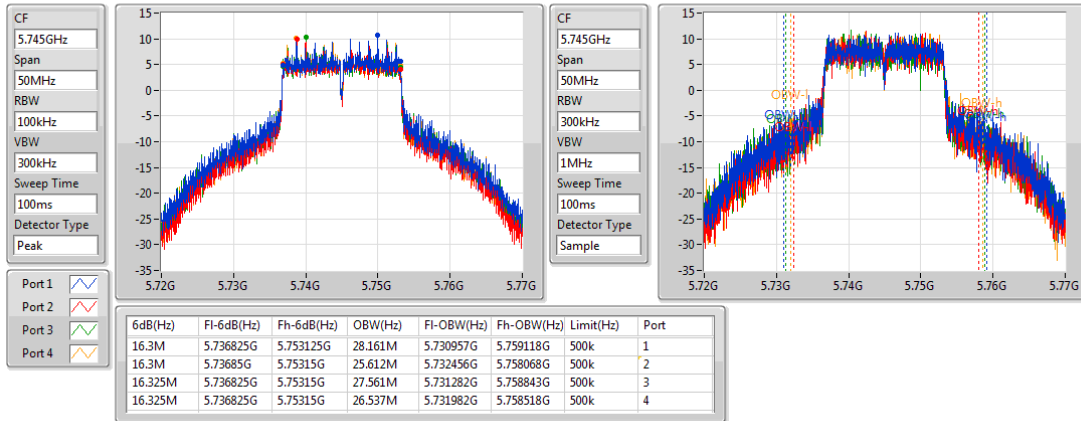


802.11a_Nss1,(6Mbps)_4TX

EBW

5745MHz

28.01.2019

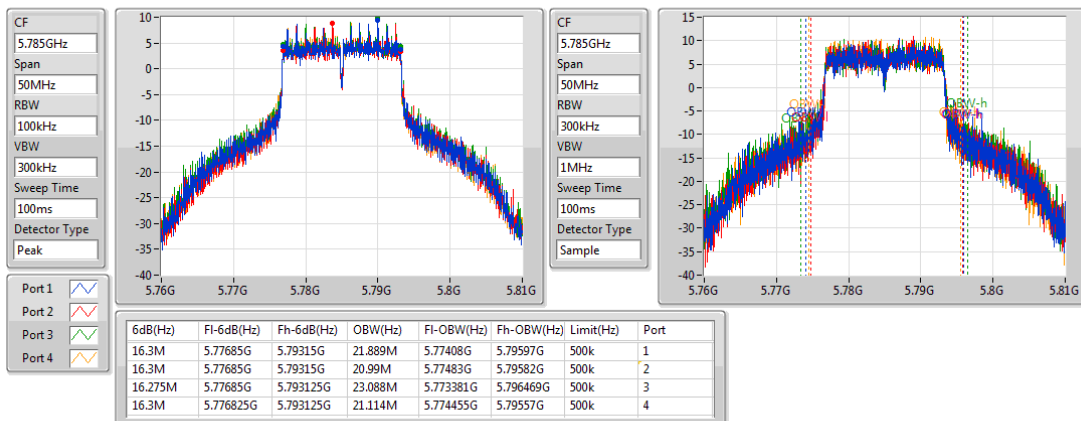


802.11a_Nss1,(6Mbps)_4TX

EBW

5785MHz

28.01.2019

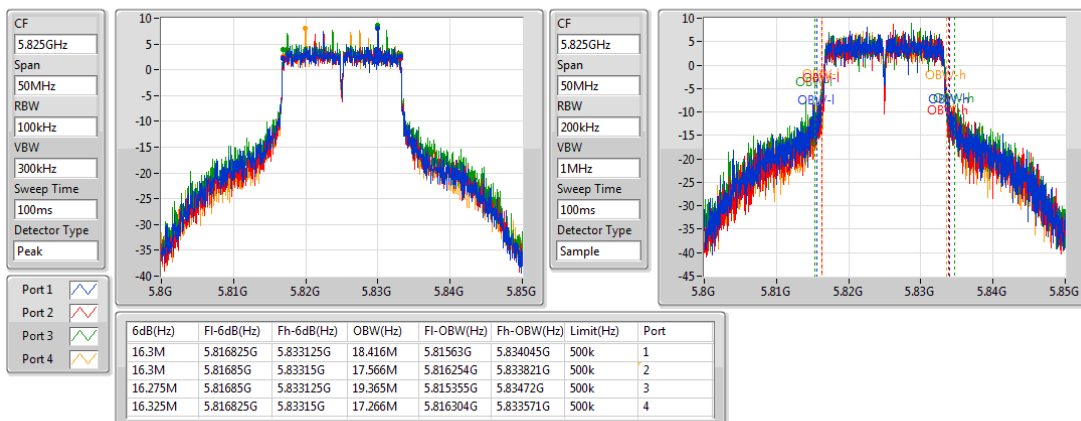


802.11a_Nss1,(6Mbps)_4TX

EBW

5825MHz

28.01.2019

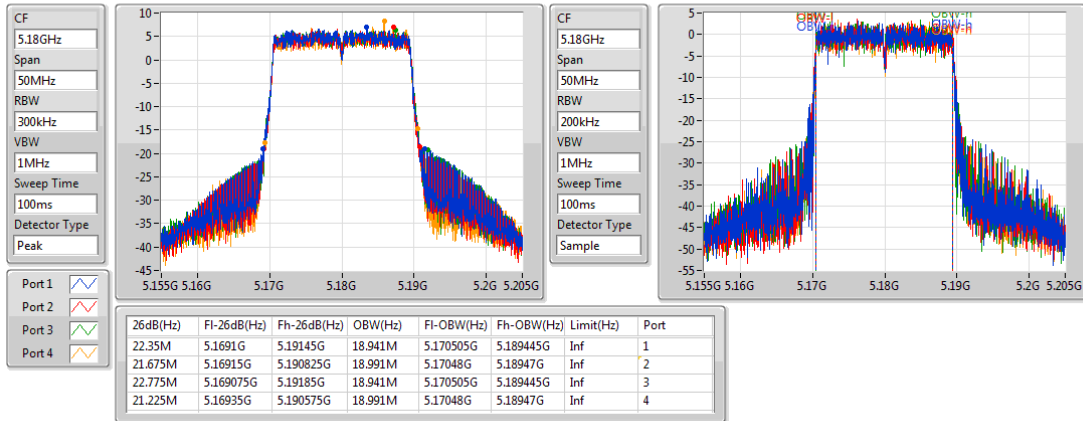


802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

5180MHz

28/01/2019

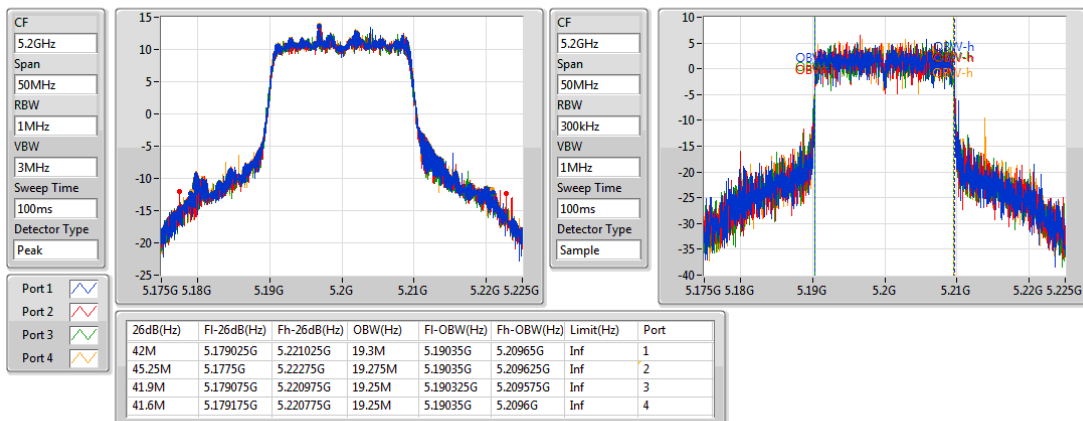


802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

5200MHz

29/01/2019

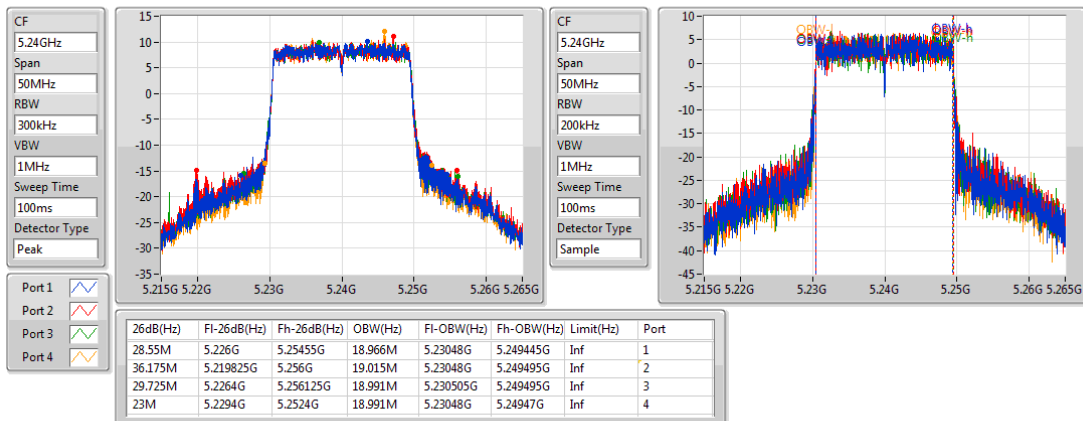


802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

5240MHz

28/01/2019

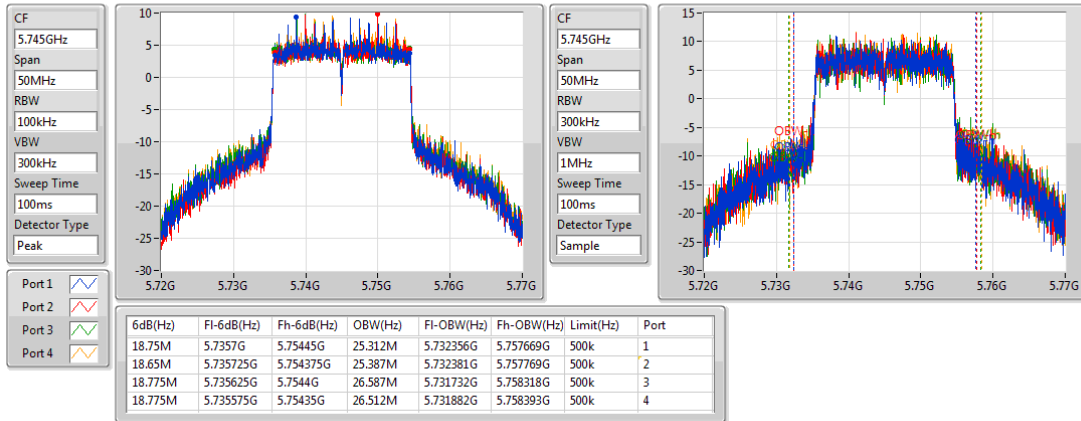


802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

5745MHz

28.01.2019

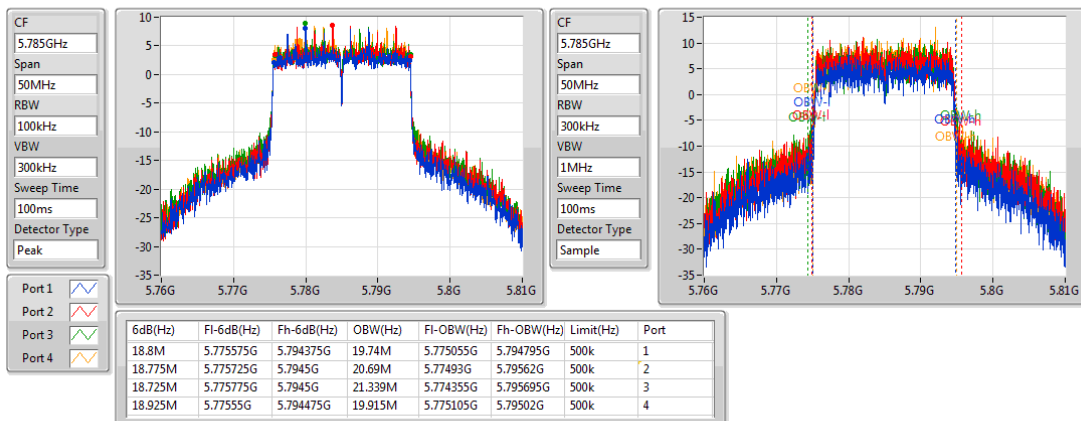


802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

5785MHz

28.01.2019

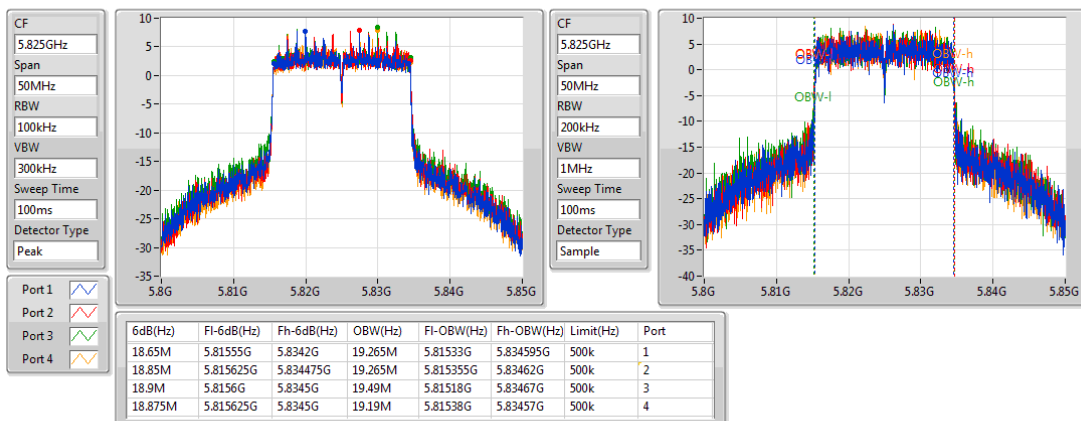


802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

5825MHz

28.01.2019

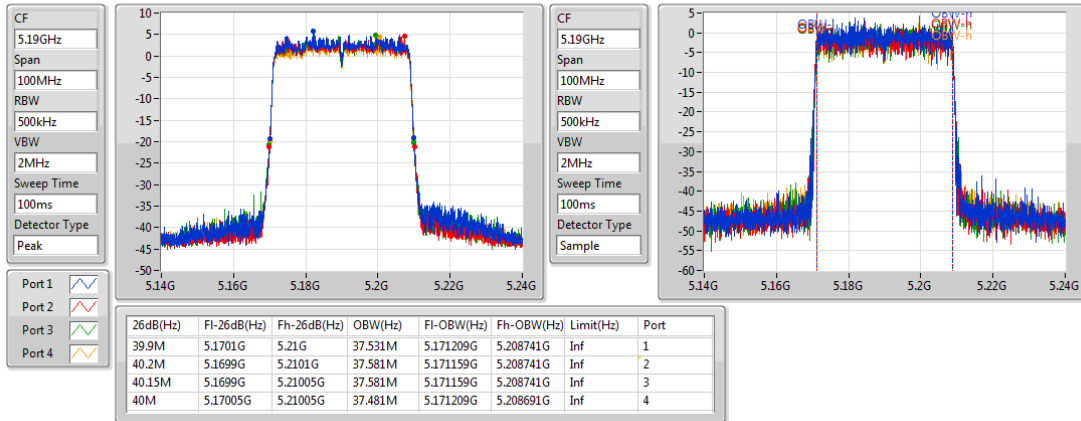


802.11ax HEW40_Nss1,(MCS0)_4TX

EBW

5190MHz

28/01/2019

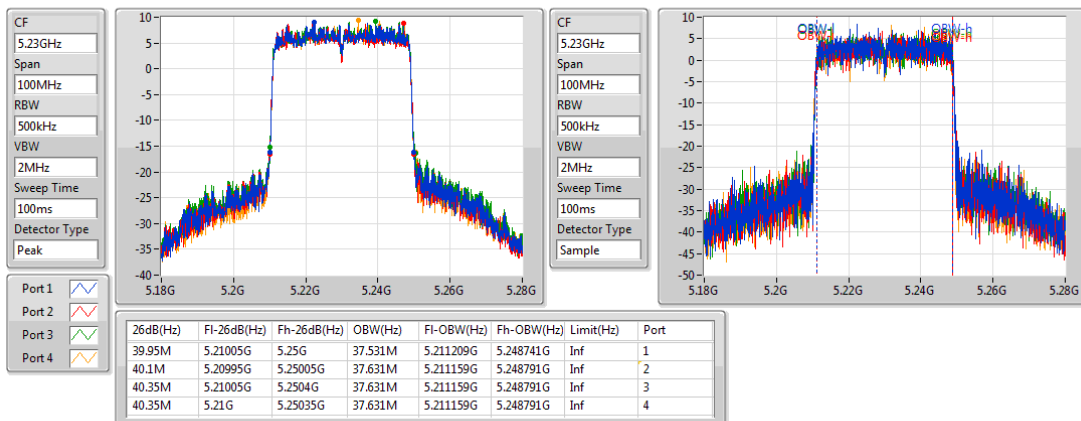


802.11ax HEW40_Nss1,(MCS0)_4TX

EBW

5230MHz

28/01/2019

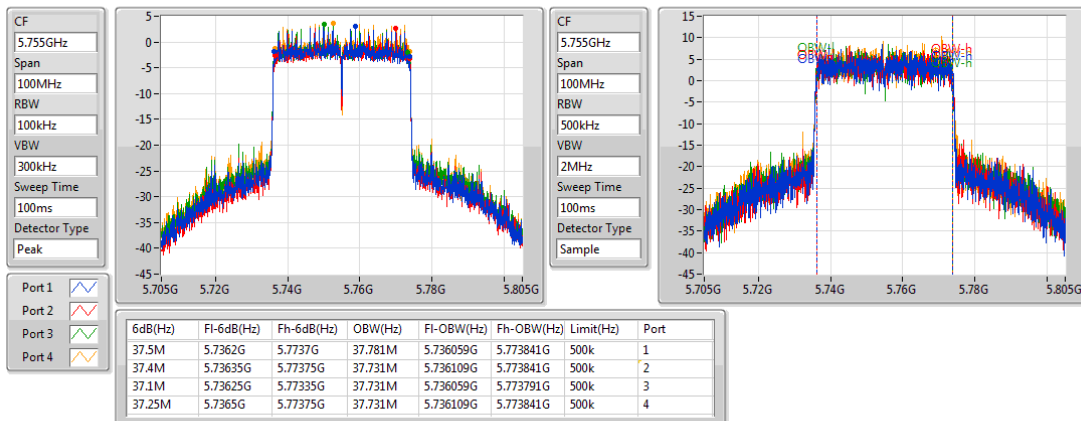


802.11ax HEW40_Nss1,(MCS0)_4TX

EBW

5755MHz

28/01/2019

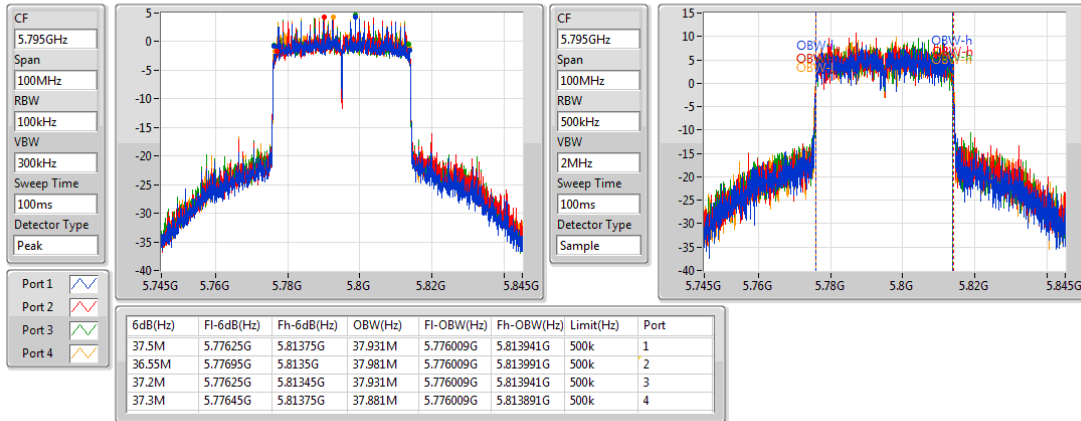


802.11ax HEW40_Nss1,(MCS0)_4TX

EBW

5795MHz

28/01/2019

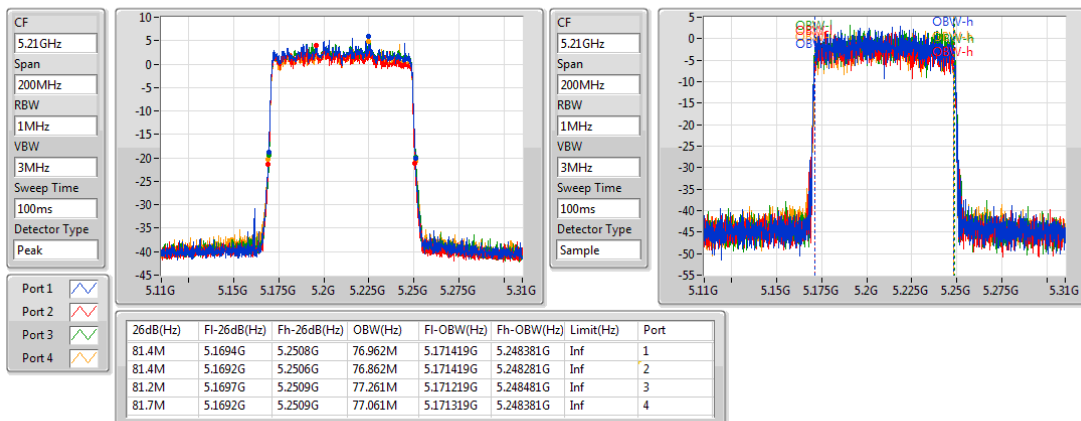


802.11ax HEW80_Nss1,(MCS0)_4TX

EBW

5210MHz

28/01/2019

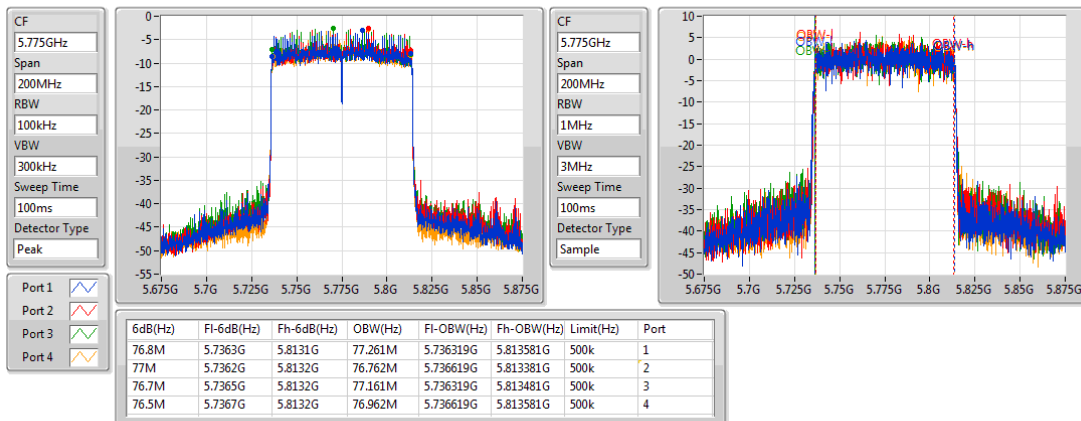


802.11ax HEW80_Nss1,(MCS0)_4TX

EBW

5775MHz

28/01/2019





EBW Result_Radio 1

Appendix B.9

For Beamforming / 4T1S mode Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.15-5.25GHz	-	-	-	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	24.475M	19.015M	19M0D1D	21.45M	18.941M
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	42.5M	37.631M	37M6D1D	39.9M	37.431M
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	81.7M	77.061M	77M1D1D	81.7M	76.862M
5.725-5.85GHz	-	-	-	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	18.95M	19.14M	19M1D1D	18.625M	19.015M
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	37.55M	37.881M	37M9D1D	36.2M	37.581M
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	76.9M	77.161M	77M2D1D	75.4M	76.962M

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)
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	Inf	21.7M	18.941M	21.65M	18.966M	21.45M	18.966M	21.575M	18.991M
5200MHz	Pass	Inf	23.4M	19.015M	23.25M	18.991M	24.475M	18.991M	21.575M	18.966M
5240MHz	Pass	Inf	24.4M	18.966M	23.225M	18.966M	23.35M	19.015M	22.525M	18.991M
5745MHz	Pass	500k	18.9M	19.015M	18.8M	19.115M	18.625M	19.09M	18.95M	19.04M
5785MHz	Pass	500k	18.9M	19.04M	18.725M	19.14M	18.7M	19.065M	18.875M	19.015M
5825MHz	Pass	500k	18.95M	19.015M	18.65M	19.09M	18.625M	19.115M	18.9M	19.015M
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	Inf	40M	37.581M	39.9M	37.531M	40.1M	37.581M	40.15M	37.631M
5230MHz	Pass	Inf	40.25M	37.431M	40.15M	37.631M	42.5M	37.581M	40.2M	37.581M
5755MHz	Pass	500k	37.55M	37.681M	36.65M	37.681M	37.55M	37.681M	37.25M	37.631M
5795MHz	Pass	500k	37.55M	37.581M	36.2M	37.881M	37.2M	37.731M	36.55M	37.581M
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	Inf	81.7M	77.061M	81.7M	76.962M	81.7M	76.862M	81.7M	77.061M
5775MHz	Pass	500k	76.7M	76.962M	76.9M	77.061M	76.6M	77.061M	75.4M	77.161M

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

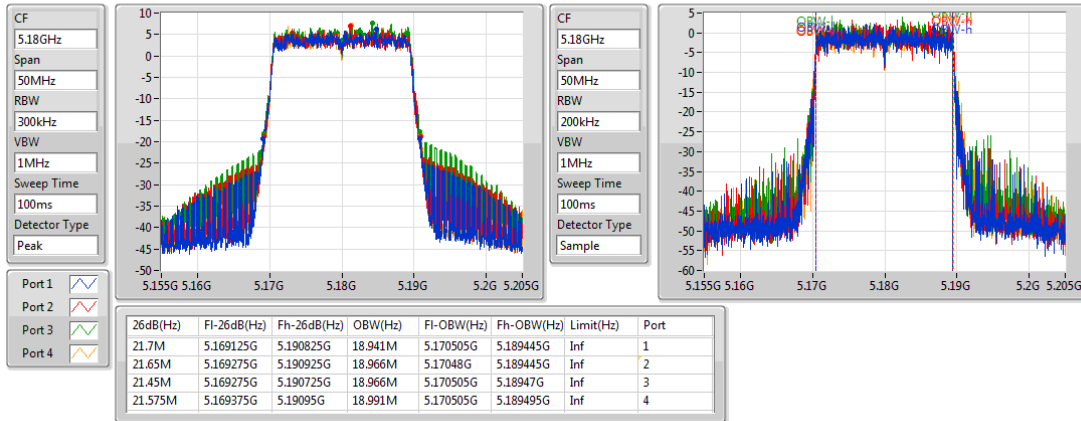
Port X-OBW = Port X 99% occupied bandwidth;

802.11ax HEW20-BF_Nss1,(MCS0)_4TX

EBW

5180MHz

25/01/2019

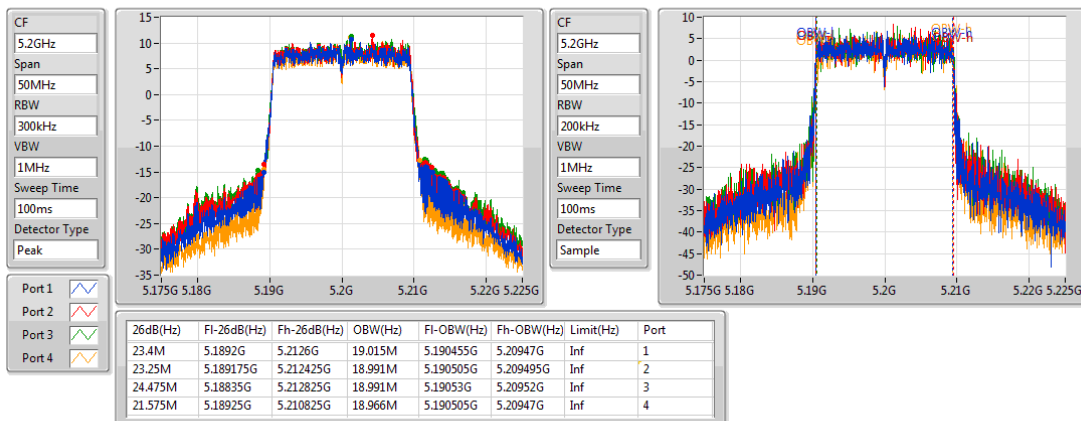


802.11ax HEW20-BF_Nss1,(MCS0)_4TX

EBW

5200MHz

25/01/2019

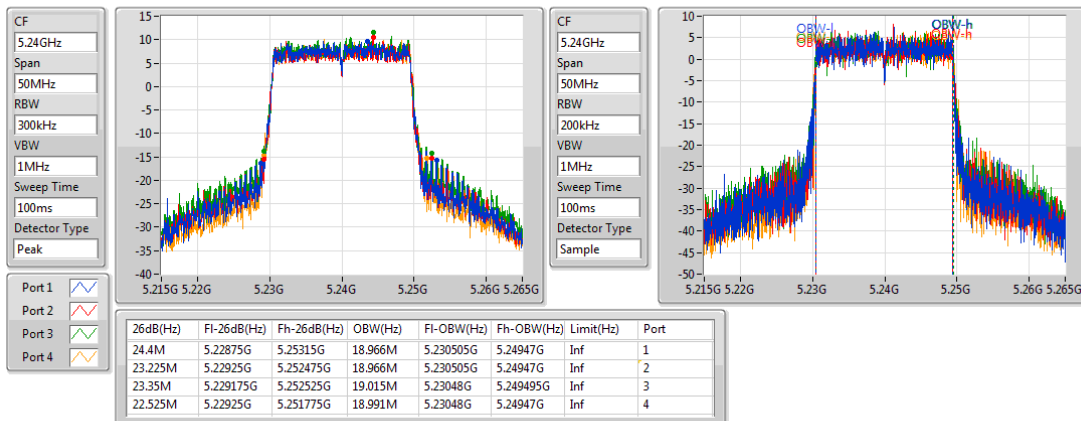


802.11ax HEW20-BF_Nss1,(MCS0)_4TX

EBW

5240MHz

25/01/2019

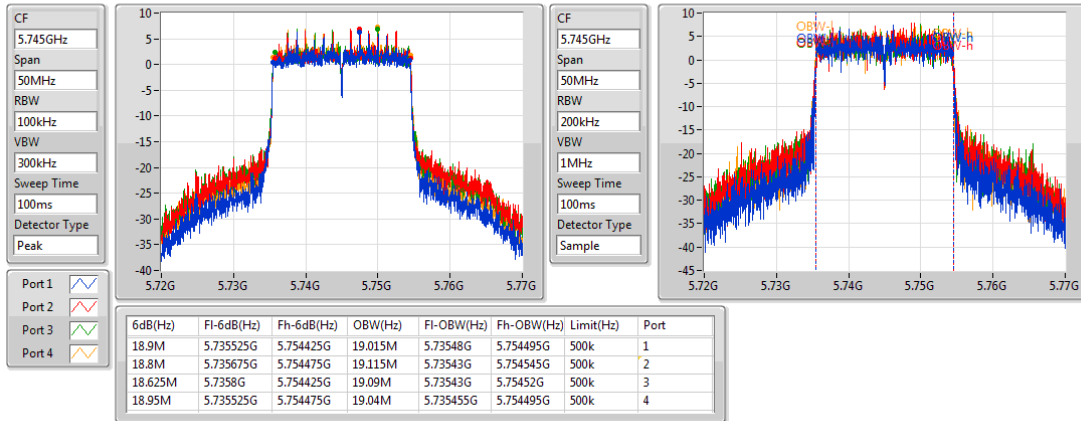


802.11ax HEW20-BF_Nss1,(MCS0)_4TX

EBW

5745MHz

25.01/2019

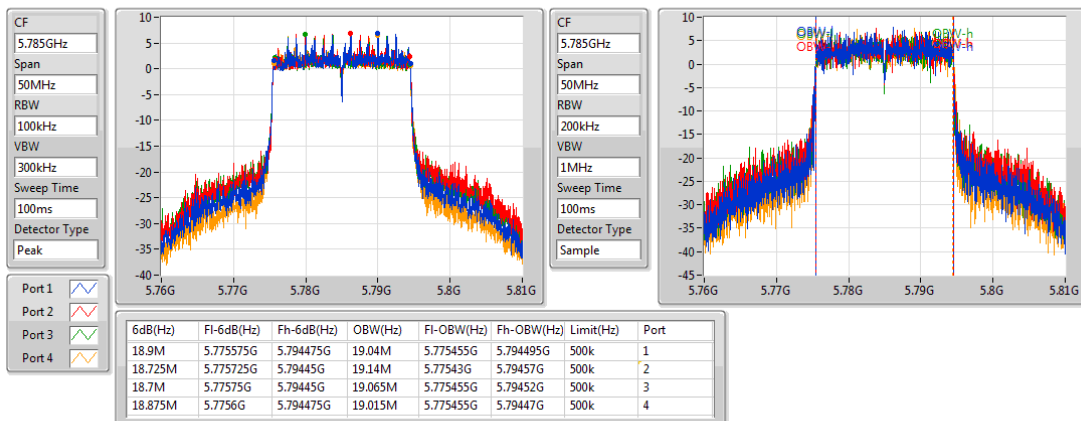


802.11ax HEW20-BF_Nss1,(MCS0)_4TX

EBW

5785MHz

25.01/2019

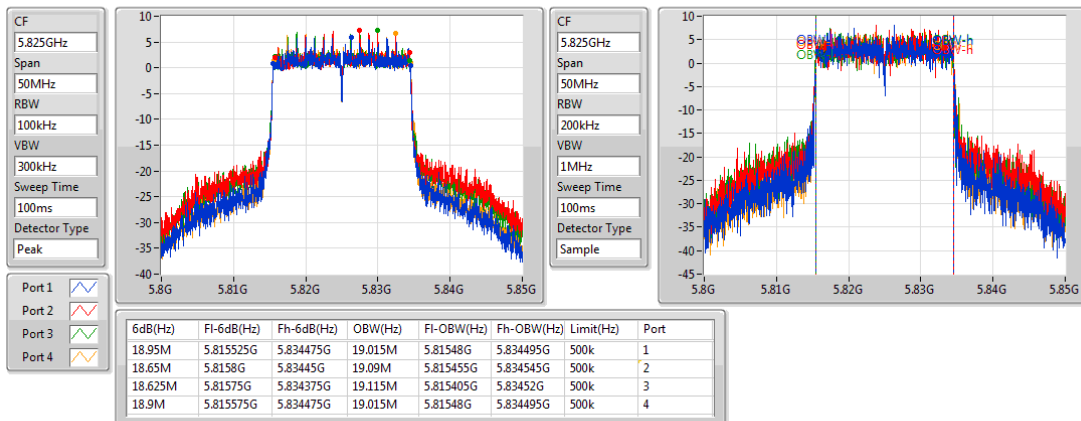


802.11ax HEW20-BF_Nss1,(MCS0)_4TX

EBW

5825MHz

25.01/2019

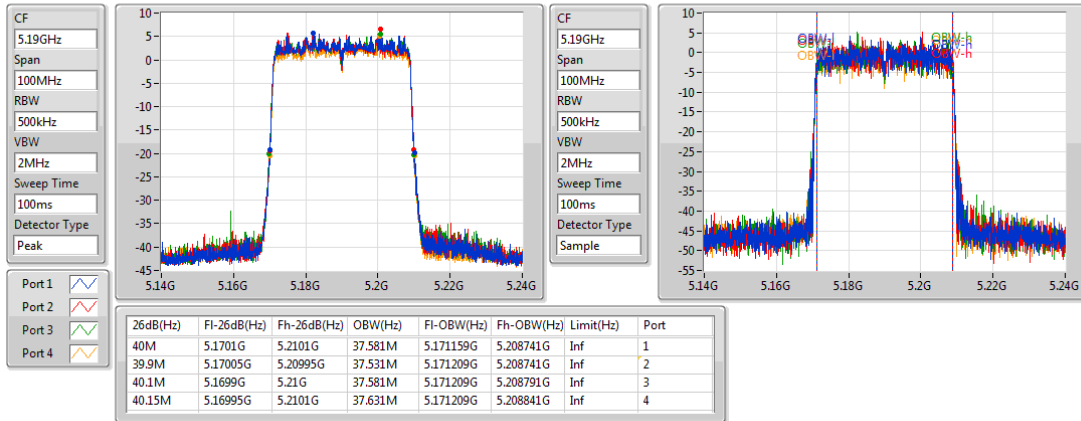


802.11ax HEW40-BF_Nss1,(MCS0)_4TX

EBW

5190MHz

25/01/2019

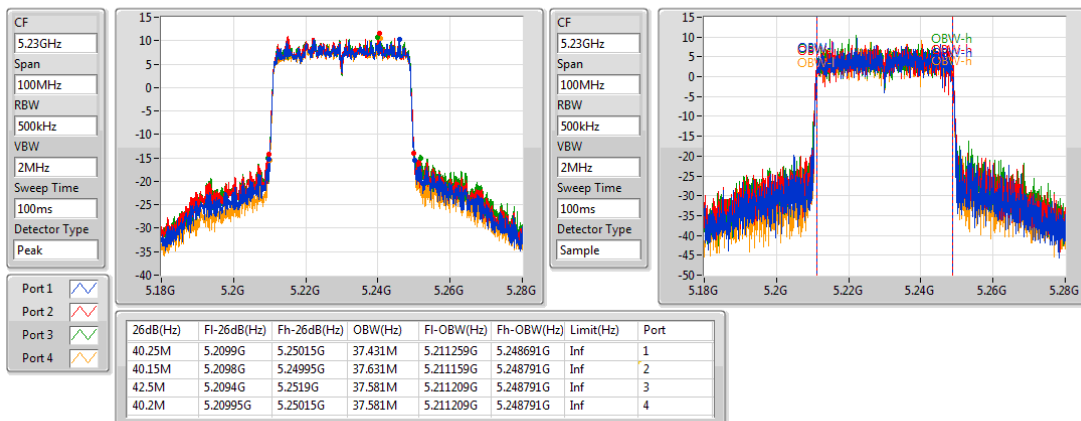


802.11ax HEW40-BF_Nss1,(MCS0)_4TX

EBW

5230MHz

25/01/2019

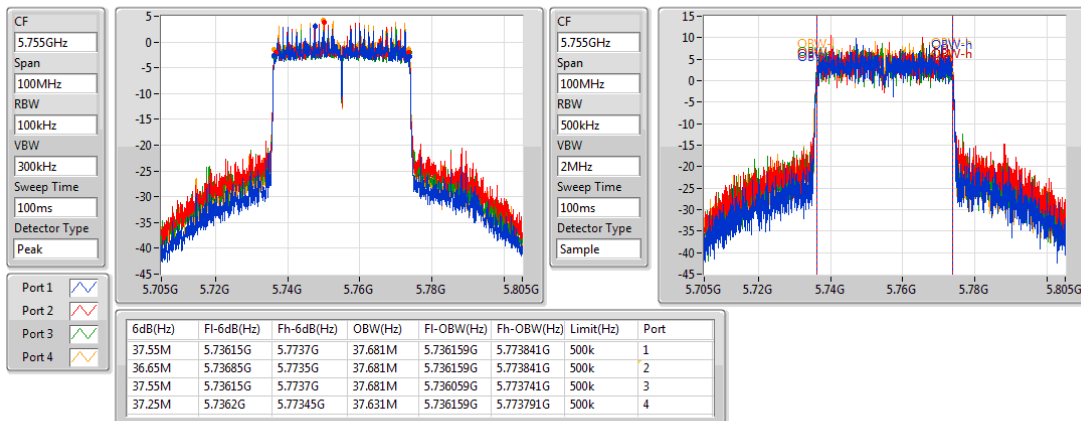


802.11ax HEW40-BF_Nss1,(MCS0)_4TX

EBW

5755MHz

25/01/2019

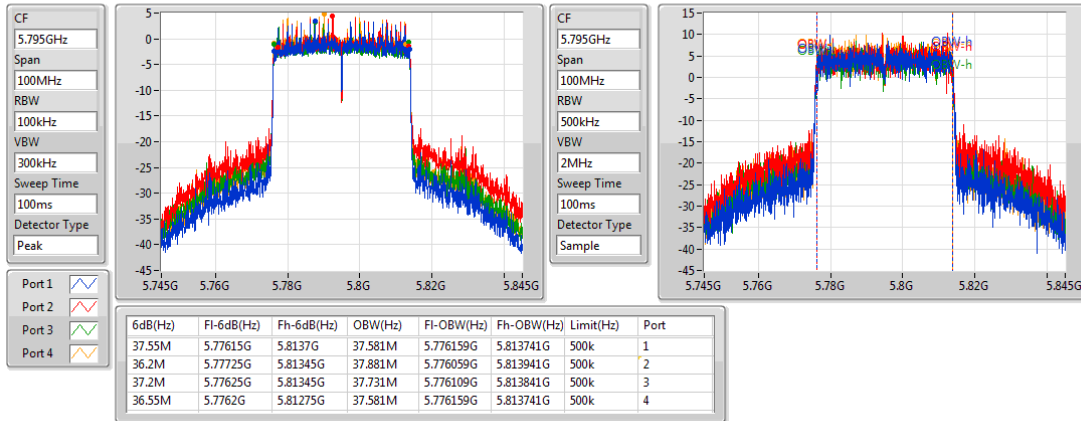


802.11ax HEW40-BF_Nss1,(MCS0)_4TX

EBW

5795MHz

25/01/2019

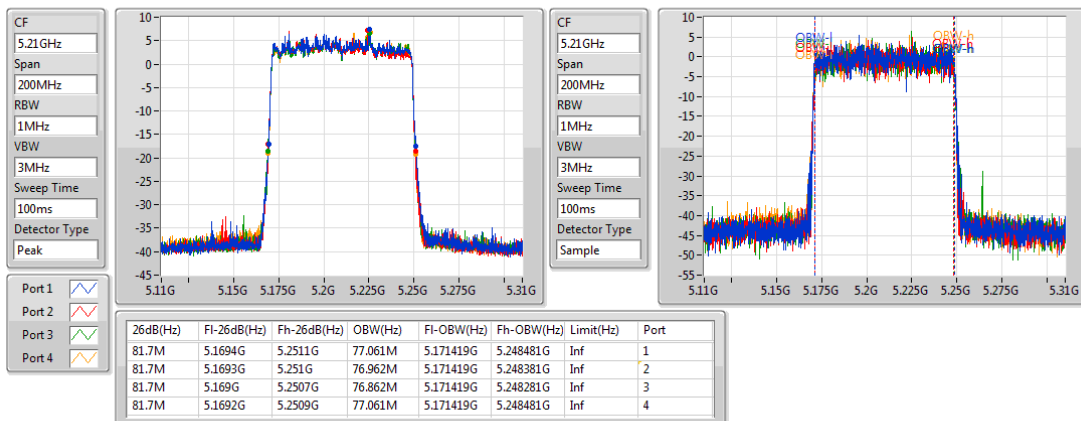


802.11ax HEW80-BF_Nss1,(MCS0)_4TX

EBW

5210MHz

25/01/2019

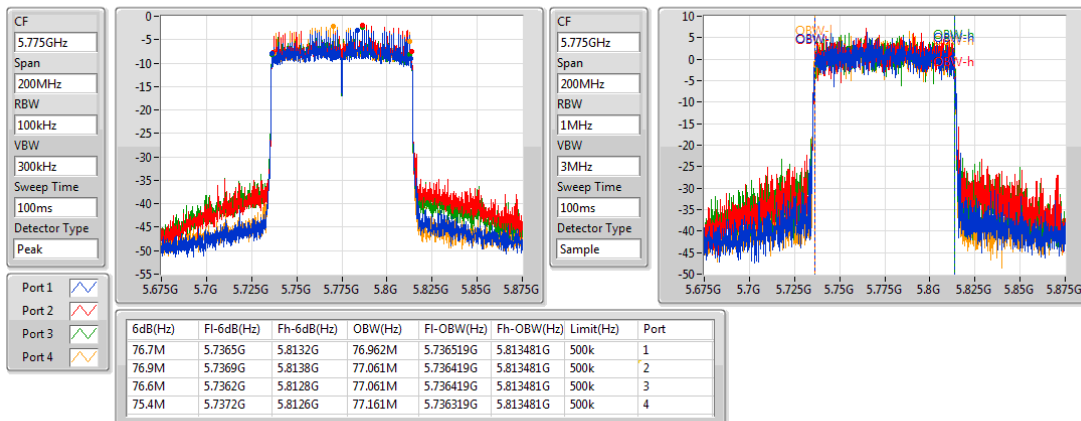


802.11ax HEW80-BF_Nss1,(MCS0)_4TX

EBW

5775MHz

25/01/2019





EBW Result_Radio 1

Appendix B.10

For Non-beamforming / 4T4S mode Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.15-5.25GHz	-	-	-	-	-
802.11ax HEW20_Nss4,(MCS0)_4TX	45M	19.34M	19M3D1D	21.425M	18.916M
802.11ax HEW40_Nss4,(MCS0)_4TX	40.4M	37.631M	37M6D1D	40M	37.481M
802.11ax HEW80_Nss4,(MCS0)_4TX	81.8M	77.161M	77M2D1D	80.9M	76.962M
5.725-5.85GHz	-	-	-	-	-
802.11ax HEW20_Nss4,(MCS0)_4TX	19.05M	30.785M	30M8D1D	18.375M	19.115M
802.11ax HEW40_Nss4,(MCS0)_4TX	37.45M	37.981M	38M0D1D	36.35M	37.781M
802.11ax HEW80_Nss4,(MCS0)_4TX	76.7M	77.161M	77M2D1D	76.3M	76.962M

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)
802.11ax HEW20_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	Inf	21.9M	18.991M	21.775M	18.966M	21.75M	18.966M	21.425M	18.916M
5200MHz	Pass	Inf	39.525M	19.1M	37.85M	19.125M	36.45M	19.15M	40.925M	19.125M
5240MHz	Pass	Inf	37.85M	19.19M	42M	19.19M	45M	19.34M	40.15M	19.09M
5745MHz	Pass	500k	18.525M	30.66M	18.975M	30.21M	18.675M	30.785M	18.75M	29.86M
5785MHz	Pass	500k	18.675M	20.59M	18.475M	19.74M	18.7M	21.964M	18.375M	19.465M
5825MHz	Pass	500k	18.925M	19.265M	18.775M	19.215M	18.8M	19.29M	19.05M	19.115M
802.11ax HEW40_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	Inf	40.25M	37.581M	40M	37.581M	40.15M	37.581M	40.25M	37.581M
5230MHz	Pass	Inf	40.3M	37.481M	40.1M	37.581M	40.4M	37.581M	40.2M	37.631M
5755MHz	Pass	500k	36.95M	37.781M	36.55M	37.781M	37.45M	37.881M	37.2M	37.831M
5795MHz	Pass	500k	37.45M	37.981M	36.35M	37.931M	37.45M	37.981M	36.65M	37.931M
802.11ax HEW80_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	Inf	81.4M	77.161M	80.9M	76.962M	81.8M	77.061M	81.6M	76.962M
5775MHz	Pass	500k	76.7M	77.161M	76.5M	77.161M	76.3M	77.061M	76.6M	76.962M

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

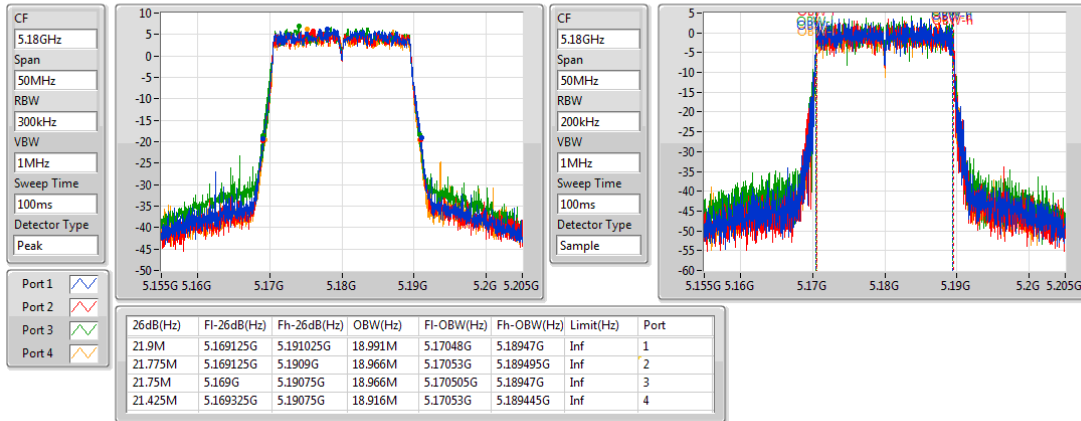
Port X-OBW = Port X 99% occupied bandwidth;

802.11ax HEW20_Nss4,(MCS0)_4TX

EBW

5180MHz

28/01/2019

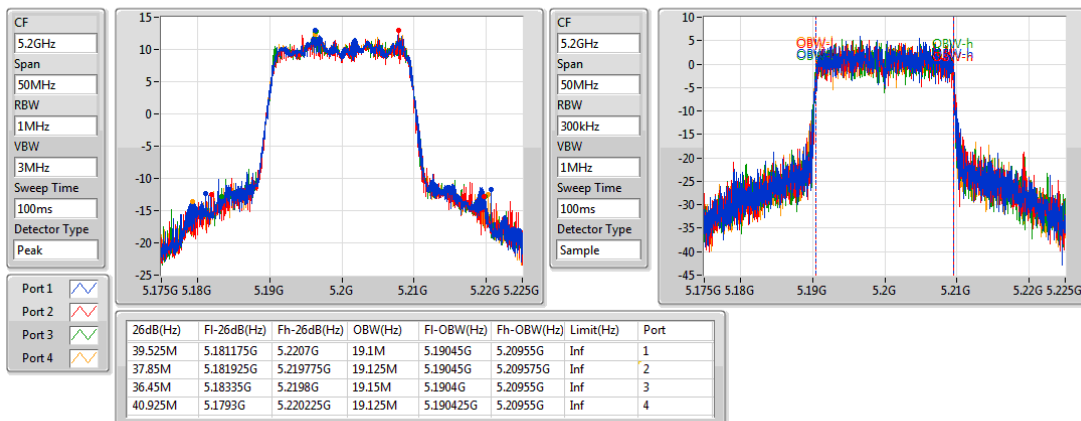


802.11ax HEW20_Nss4,(MCS0)_4TX

EBW

5200MHz

29/01/2019

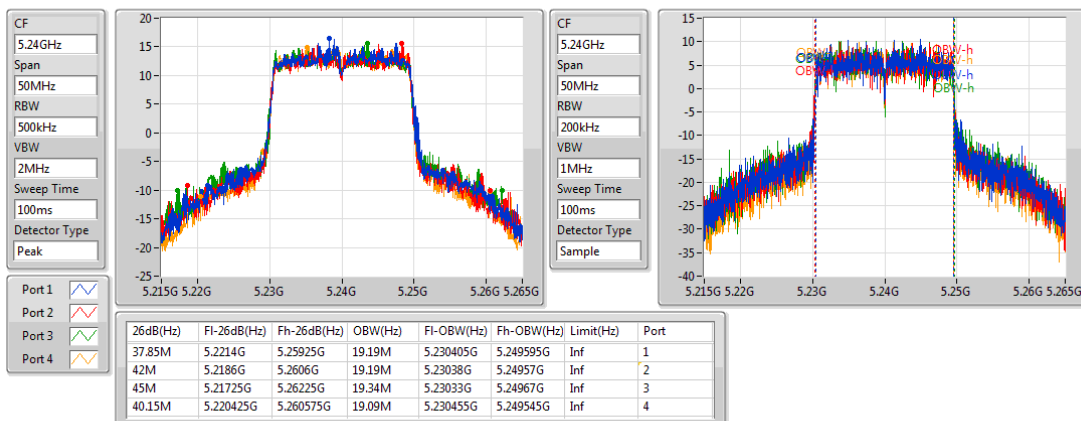


802.11ax HEW20_Nss4,(MCS0)_4TX

EBW

5240MHz

28/01/2019

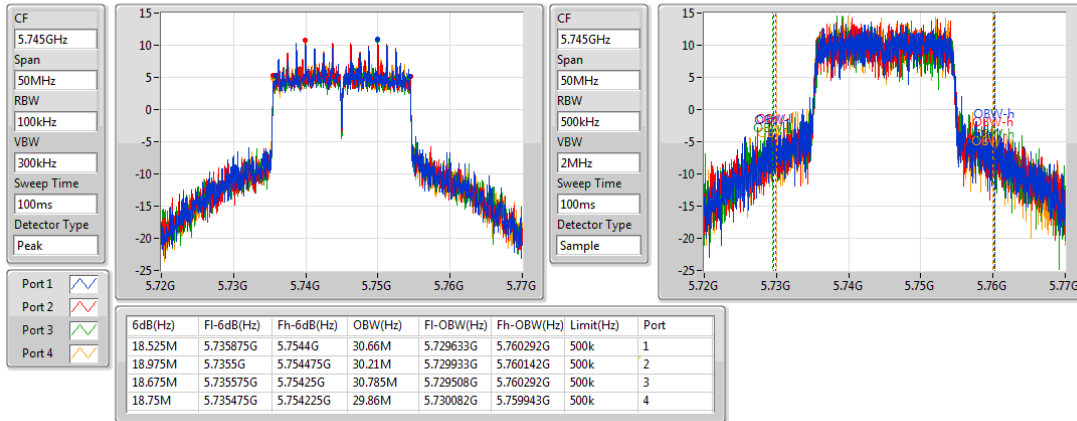


802.11ax HEW20_Nss4,(MCS0)_4TX

EBW

5745MHz

28.01.2019

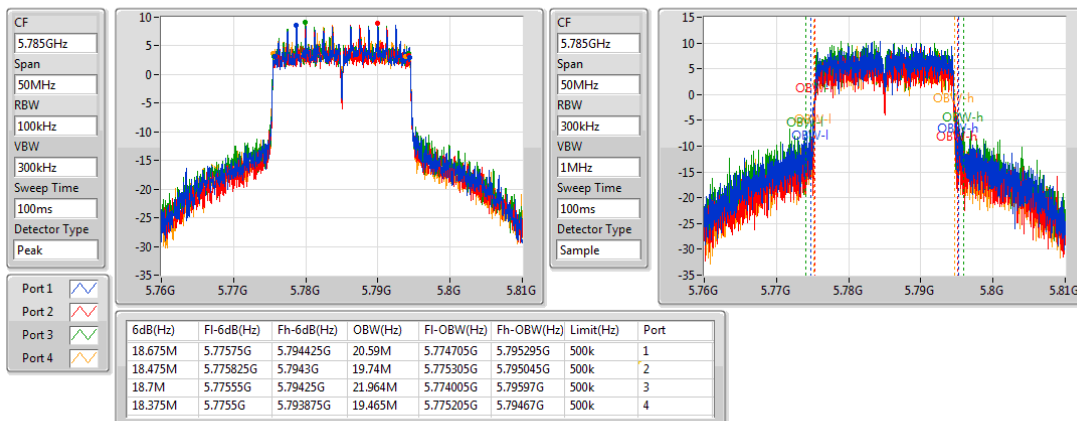


802.11ax HEW20_Nss4,(MCS0)_4TX

EBW

5785MHz

28.01.2019

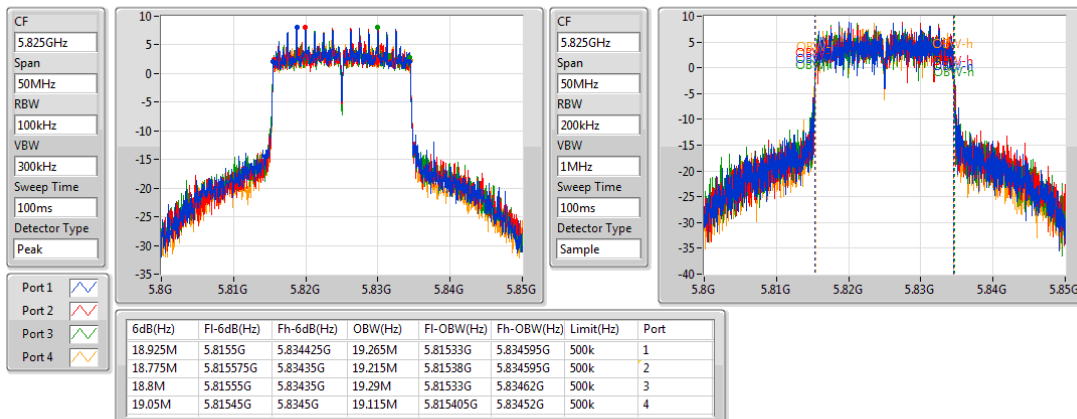


802.11ax HEW20_Nss4,(MCS0)_4TX

EBW

5825MHz

28.01.2019

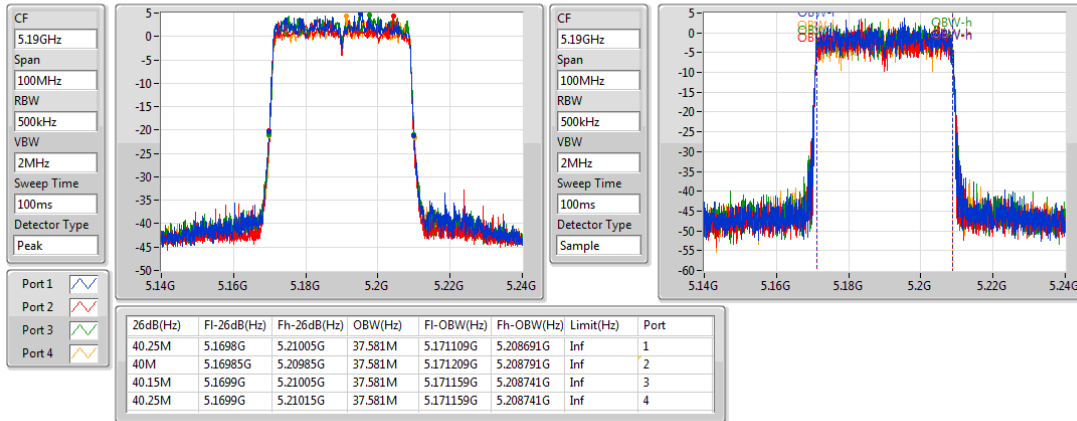


802.11ax HEW40_Nss4,(MCS0)_4TX

EBW

5190MHz

28/01/2019

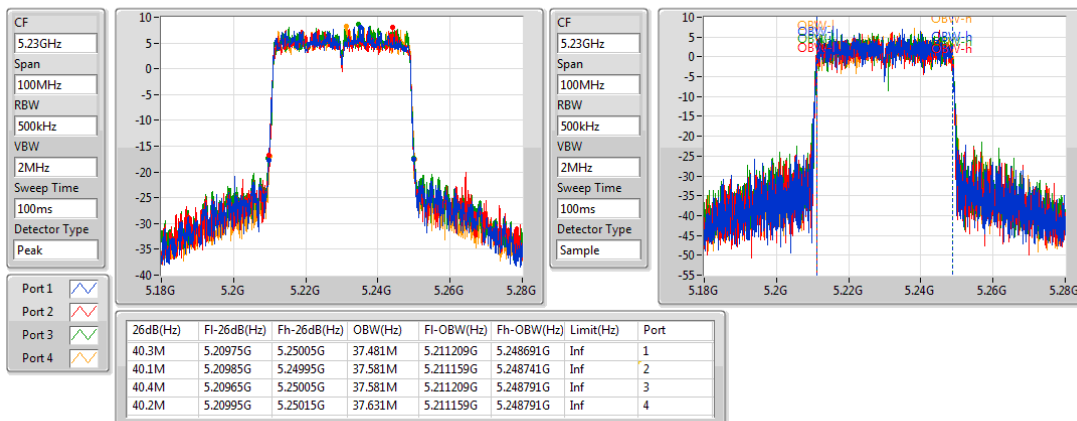


802.11ax HEW40_Nss4,(MCS0)_4TX

EBW

5230MHz

28/01/2019

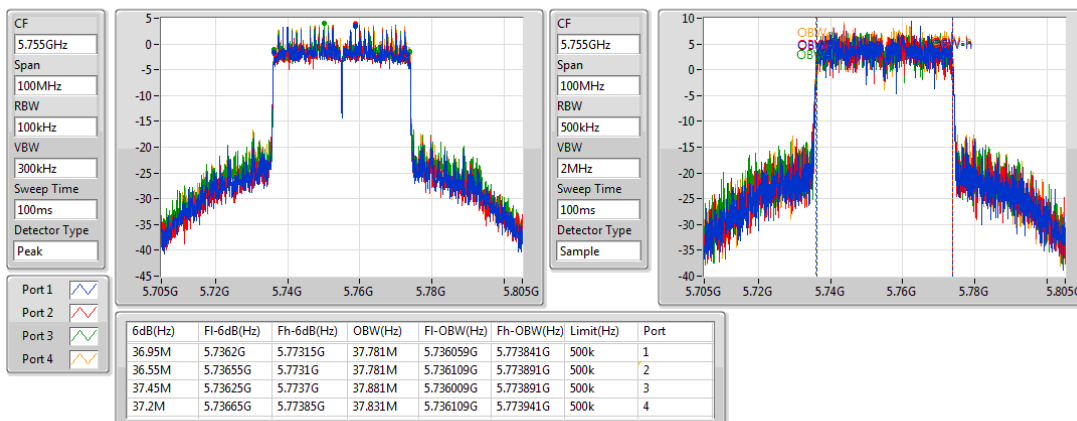


802.11ax HEW40_Nss4,(MCS0)_4TX

EBW

5755MHz

28/01/2019

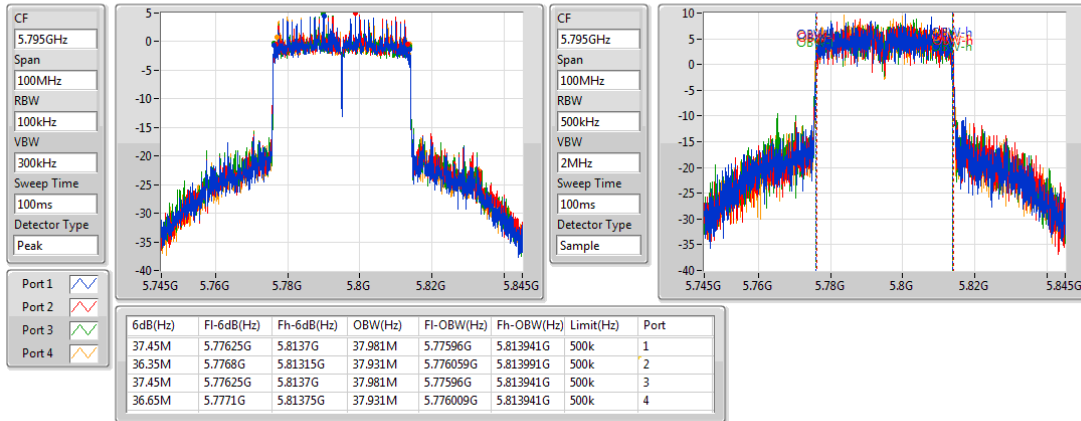


802.11ax HEW40_Nss4,(MCS0)_4TX

EBW

5795MHz

28.01.2019

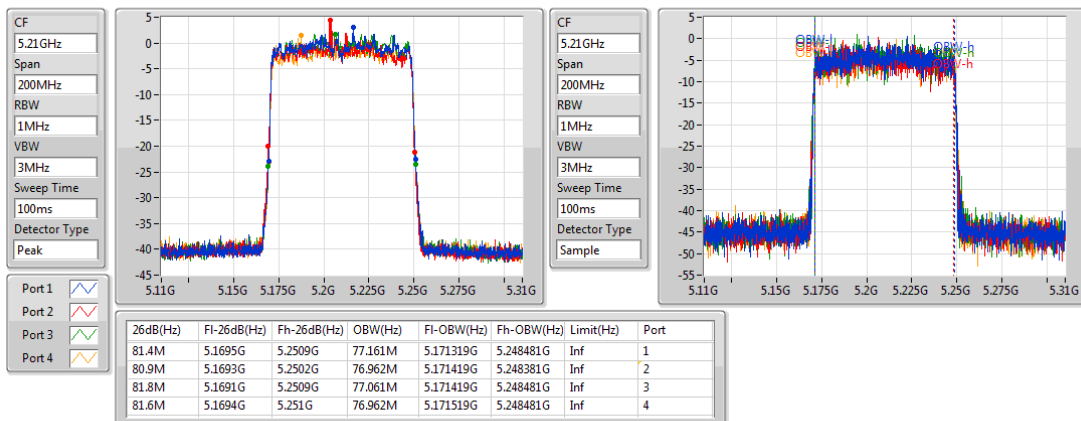


802.11ax HEW80_Nss4,(MCS0)_4TX

EBW

5210MHz

28.01.2019

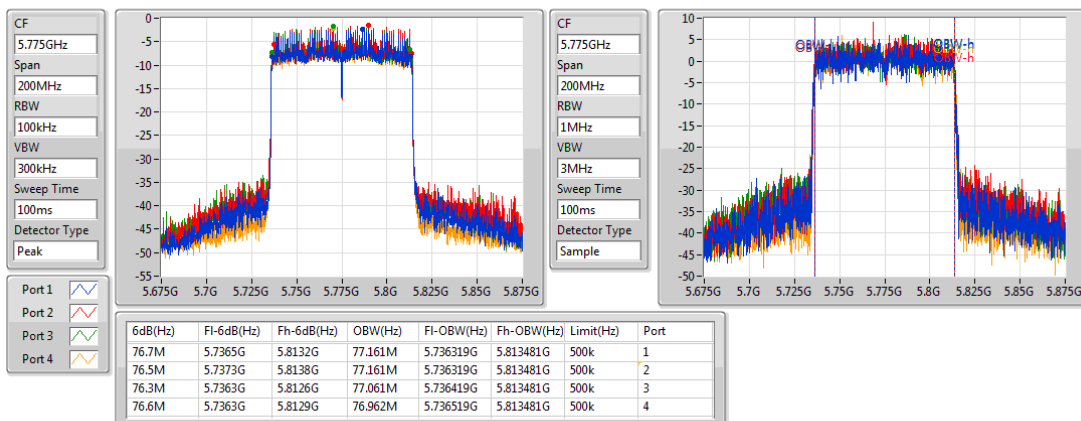


802.11ax HEW80_Nss4,(MCS0)_4TX

EBW

5775MHz

28.01.2019



Mode 3: (Ant. 11 Panel antenna / 8.7 dBi)
For Non-beamforming / 1T1S mode
Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.15-5.25GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	43.625M	19.84M	19M8D1D	26.775M	16.592M
802.11ax HEW20_Nss1,(MCS0)_1TX	41.425M	19.715M	19M7D1D	25.9M	19.015M
802.11ax HEW40_Nss1,(MCS0)_1TX	73.9M	37.681M	37M7D1D	39.9M	37.431M
802.11ax HEW80_Nss1,(MCS0)_1TX	81.4M	77.061M	77M1D1D	81.4M	77.061M
5.725-5.85GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	16.325M	22.989M	23M0D1D	16.3M	17.991M
802.11ax HEW20_Nss1,(MCS0)_1TX	18.925M	27.786M	27M8D1D	18.825M	22.464M
802.11ax HEW40_Nss1,(MCS0)_1TX	36.85M	67.216M	67M2D1D	36.65M	55.422M
802.11ax HEW80_Nss1,(MCS0)_1TX	75.9M	77.861M	77M9D1D	75.9M	77.861M

Max-N dB = Maximum 6dB down bandwidth for 5.725-5.85GHz band / Maximum 26dB down bandwidth for other band;

Max-OBW = Maximum 99% occupied bandwidth;

Min-N dB = Minimum 6dB down bandwidth for 5.725-5.85GHz band / Maximum 26dB down bandwidth for other band;

Min-OBW = Minimum 99% occupied bandwidth;

Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
802.11a_Nss1,(6Mbps)_1TX	-	-	-	-
5180MHz	Pass	Inf	26.775M	16.592M
5200MHz	Pass	Inf	43.625M	19.84M
5240MHz	Pass	Inf	43.225M	18.816M
5745MHz	Pass	500k	16.3M	22.714M
5785MHz	Pass	500k	16.3M	22.989M
5825MHz	Pass	500k	16.325M	17.991M
802.11ax HEW20_Nss1,(MCS0)_1TX	-	-	-	-
5180MHz	Pass	Inf	25.9M	19.015M
5200MHz	Pass	Inf	41.425M	19.715M
5240MHz	Pass	Inf	41.05M	19.165M
5745MHz	Pass	500k	18.825M	27.786M
5785MHz	Pass	500k	18.925M	24.863M
5825MHz	Pass	500k	18.825M	22.464M
802.11ax HEW40_Nss1,(MCS0)_1TX	-	-	-	-
5190MHz	Pass	Inf	39.9M	37.431M
5230MHz	Pass	Inf	73.9M	37.681M
5755MHz	Pass	500k	36.65M	55.422M
5795MHz	Pass	500k	36.85M	67.216M
802.11ax HEW80_Nss1,(MCS0)_1TX	-	-	-	-
5210MHz	Pass	Inf	81.4M	77.061M
5775MHz	Pass	500k	75.9M	77.861M

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

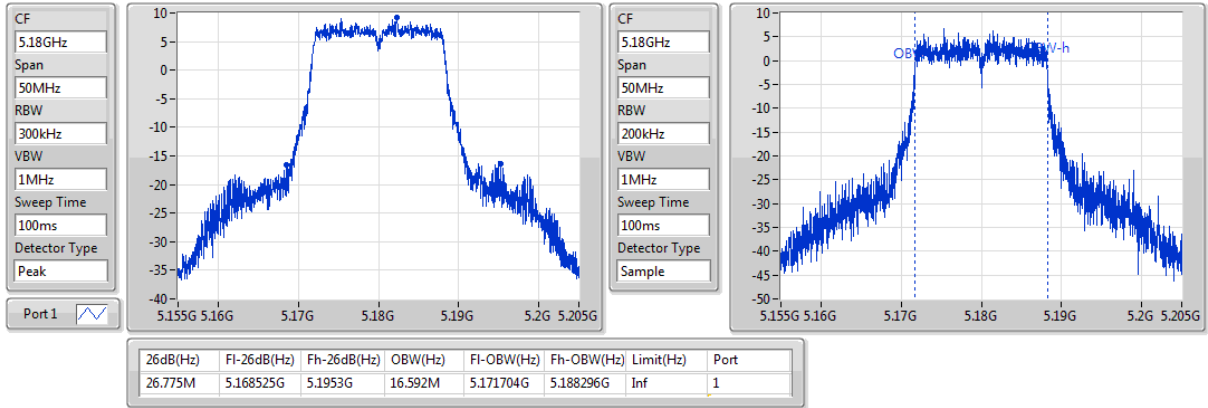
Port X-OBW = Port X 99% occupied bandwidth;

802.11a_Nss1,(6Mbps)_1TX

EBW

5180MHz

11/02/2019

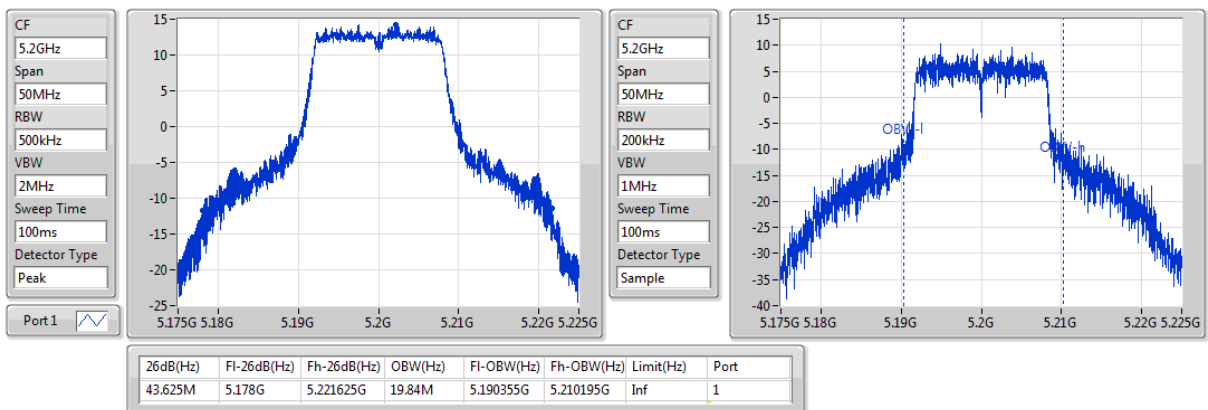


802.11a_Nss1,(6Mbps)_1TX

EBW

5200MHz

11/02/2019

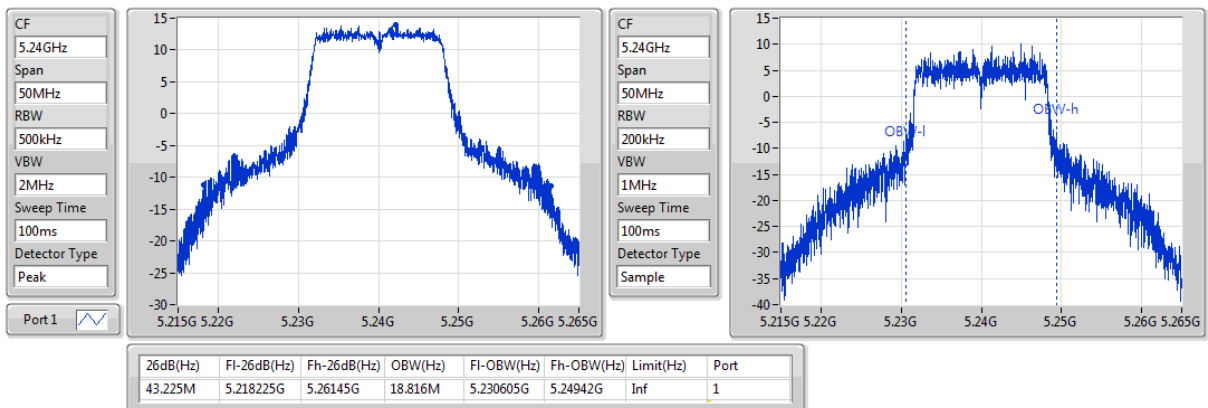


802.11a_Nss1,(6Mbps)_1TX

EBW

5240MHz

11/02/2019

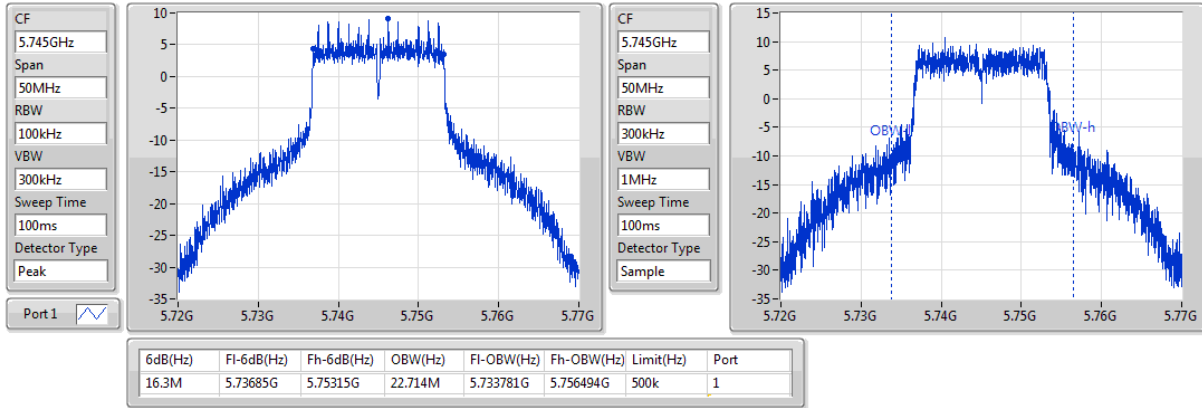


802.11a_Nss1,(6Mbps)_1TX

EBW

5745MHz

11/02/2019

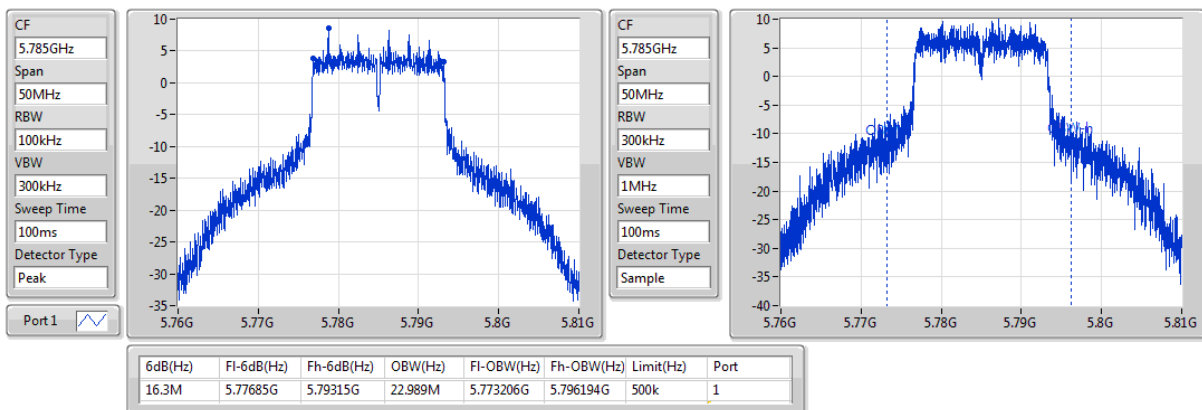


802.11a_Nss1,(6Mbps)_1TX

EBW

5785MHz

11/02/2019

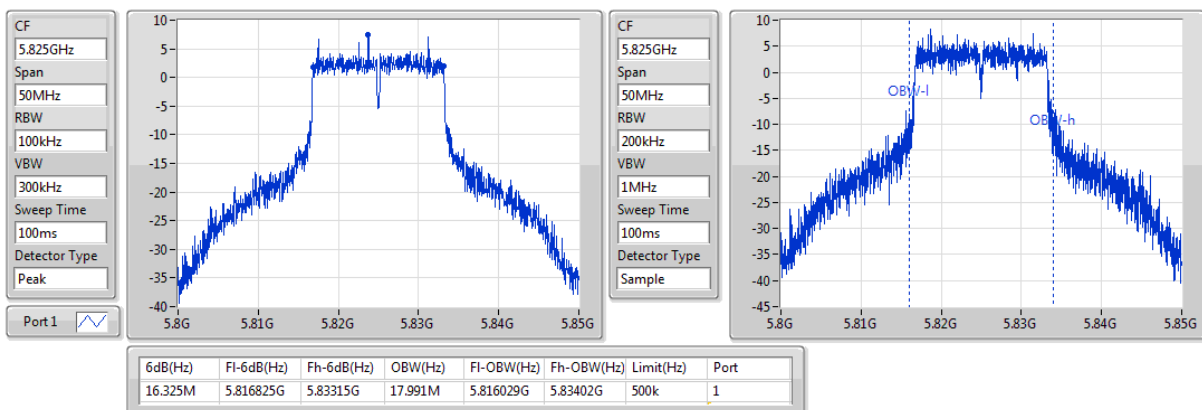


802.11a_Nss1,(6Mbps)_1TX

EBW

5825MHz

11/02/2019

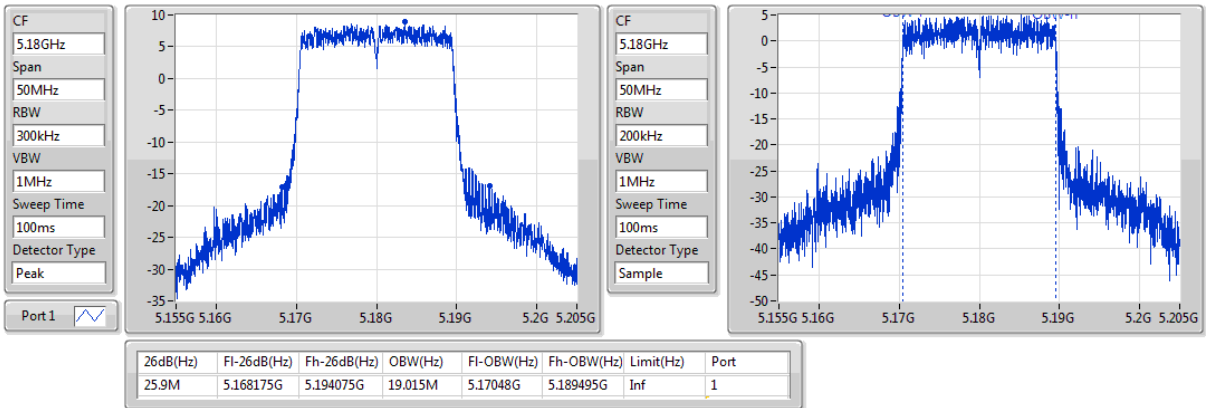


802.11ax HEW20_Nss1,(MCS0)_1TX

EBW

5180MHz

11/02/2019

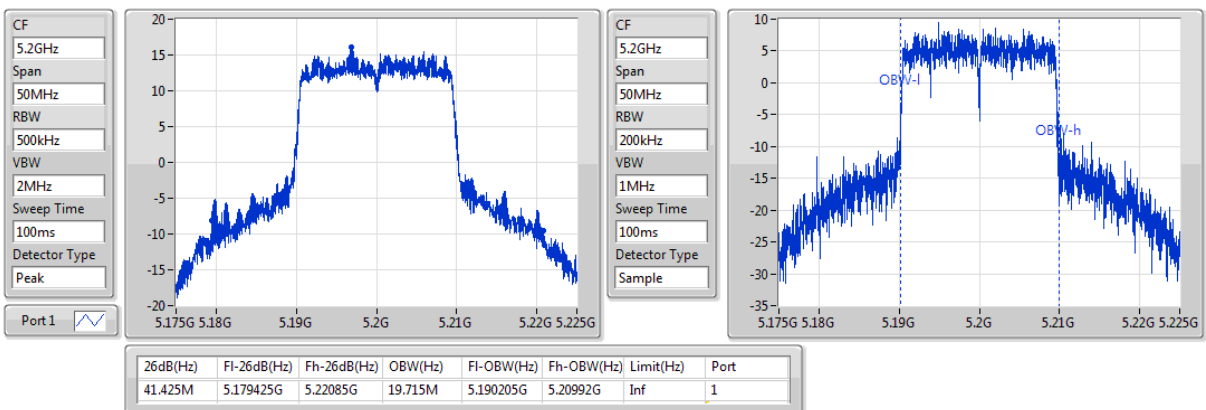


802.11ax HEW20_Nss1,(MCS0)_1TX

EBW

5200MHz

11/02/2019

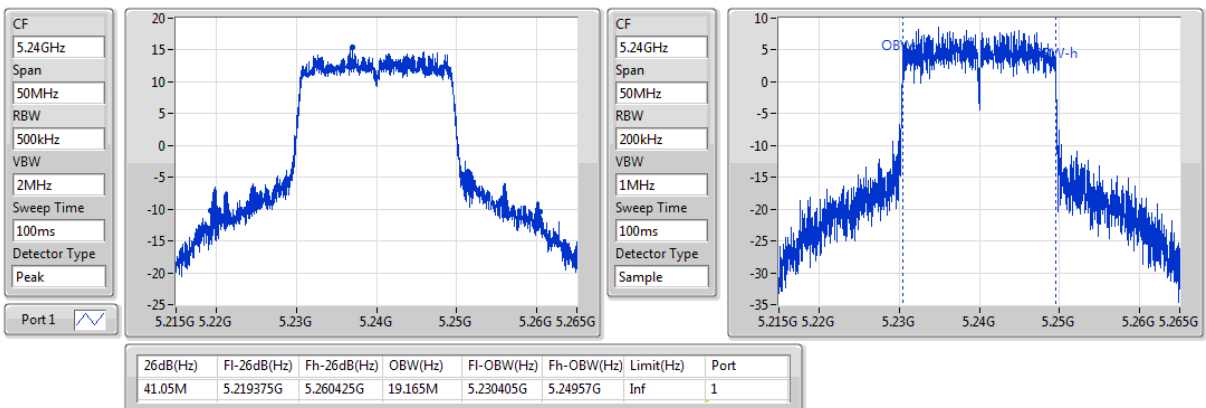


802.11ax HEW20_Nss1,(MCS0)_1TX

EBW

5240MHz

11/02/2019

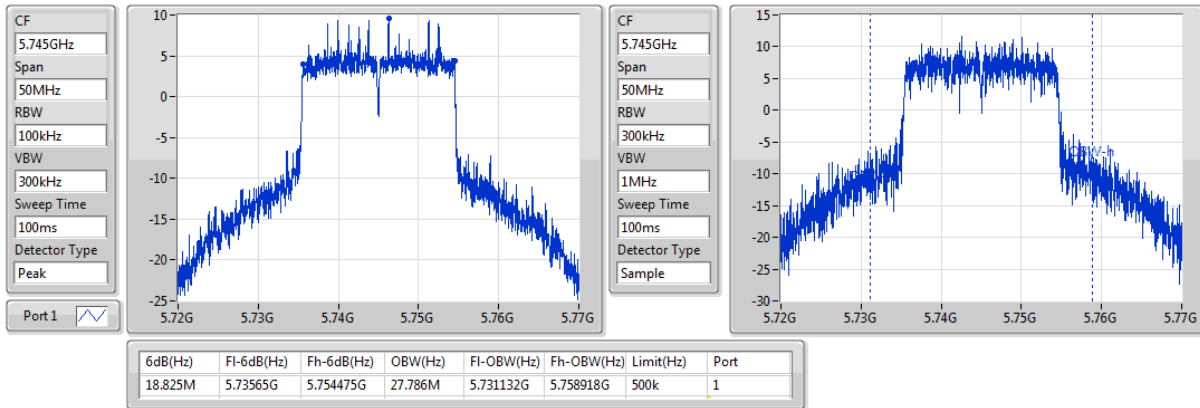


802.11ax HEW20_Nss1,(MCS0)_1TX

EBW

5745MHz

11/02/2019

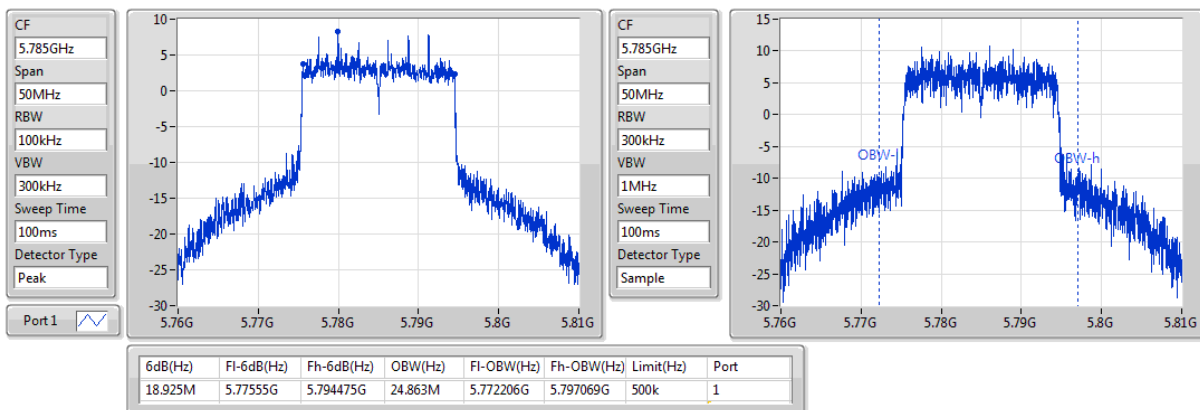


802.11ax HEW20_Nss1,(MCS0)_1TX

EBW

5785MHz

11/02/2019

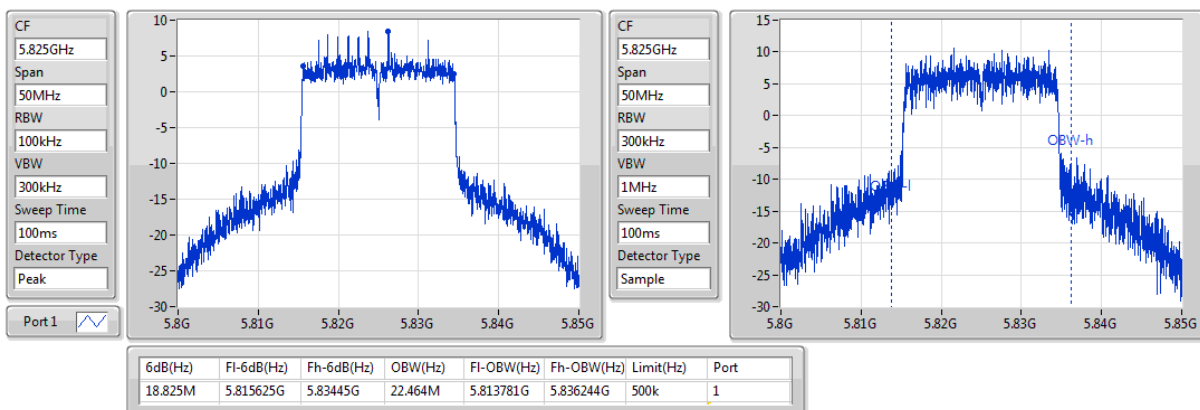


802.11ax HEW20_Nss1,(MCS0)_1TX

EBW

5825MHz

11/02/2019

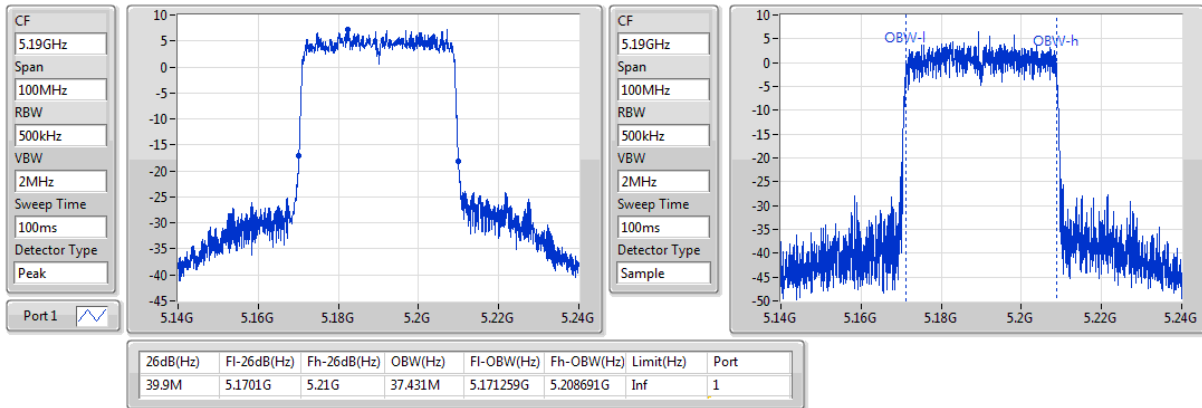


802.11ax HEW40_Nss1,(MCS0)_1TX

EBW

5190MHz

11/02/2019

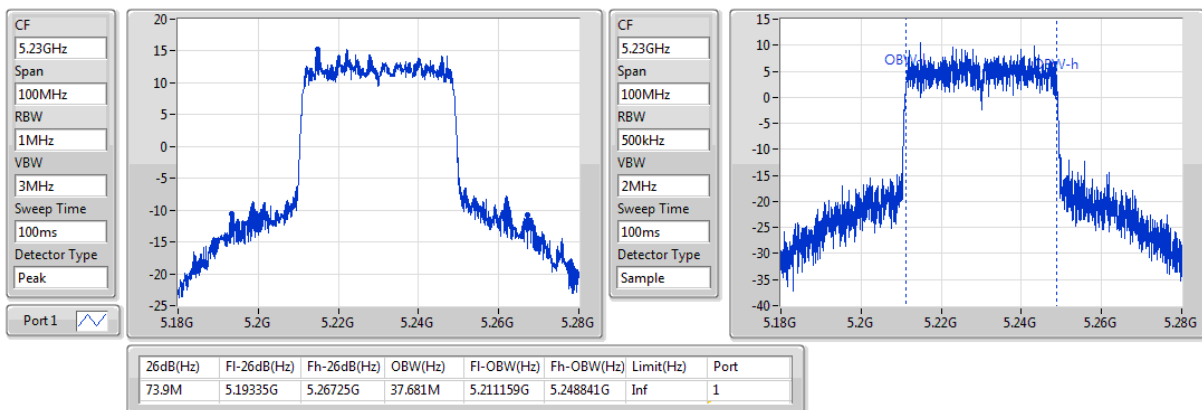


802.11ax HEW40_Nss1,(MCS0)_1TX

EBW

5230MHz

11/02/2019

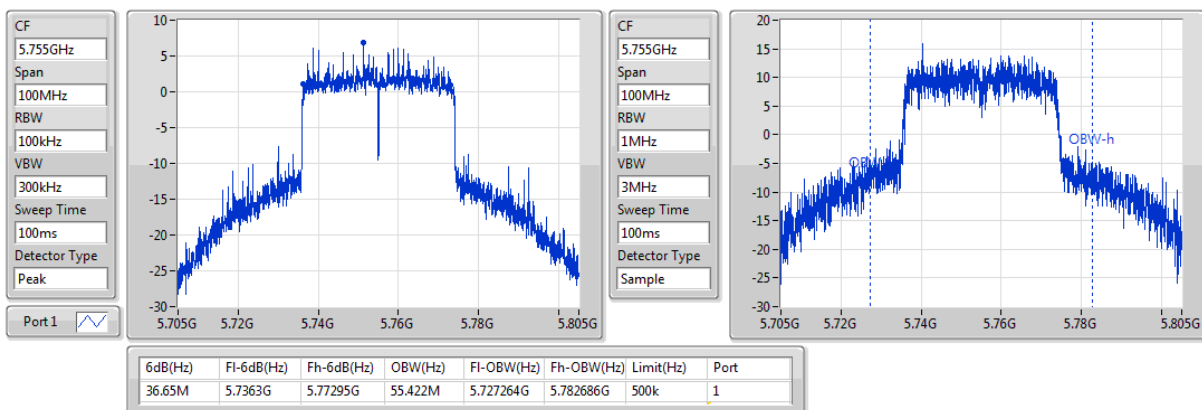


802.11ax HEW40_Nss1,(MCS0)_1TX

EBW

5755MHz

11/02/2019

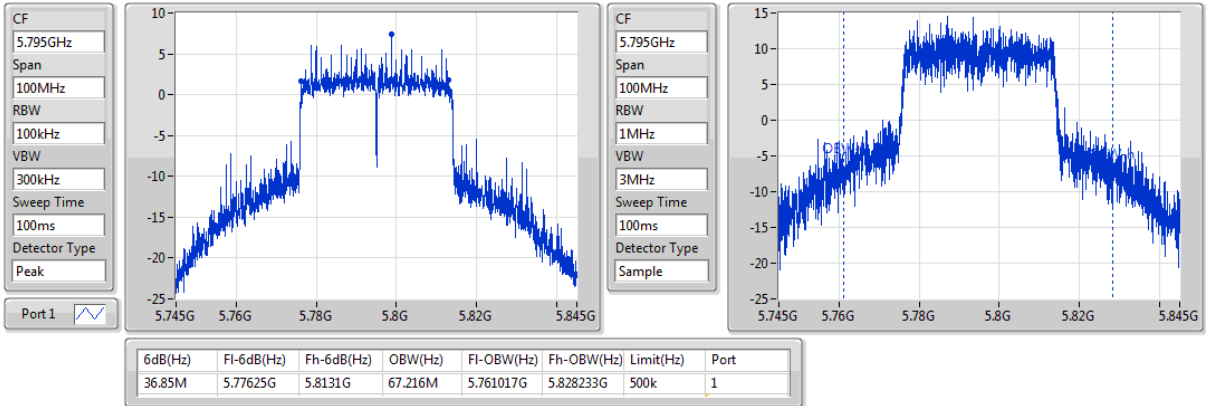


802.11ax HEW40_Nss1,(MCS0)_1TX

EBW

5795MHz

11/02/2019

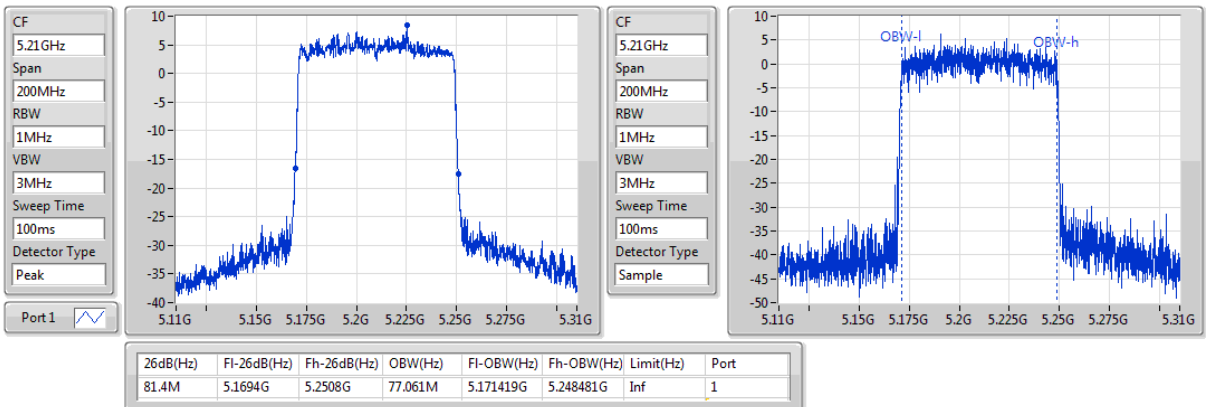


802.11ax HEW80_Nss1,(MCS0)_1TX

EBW

5210MHz

11/02/2019

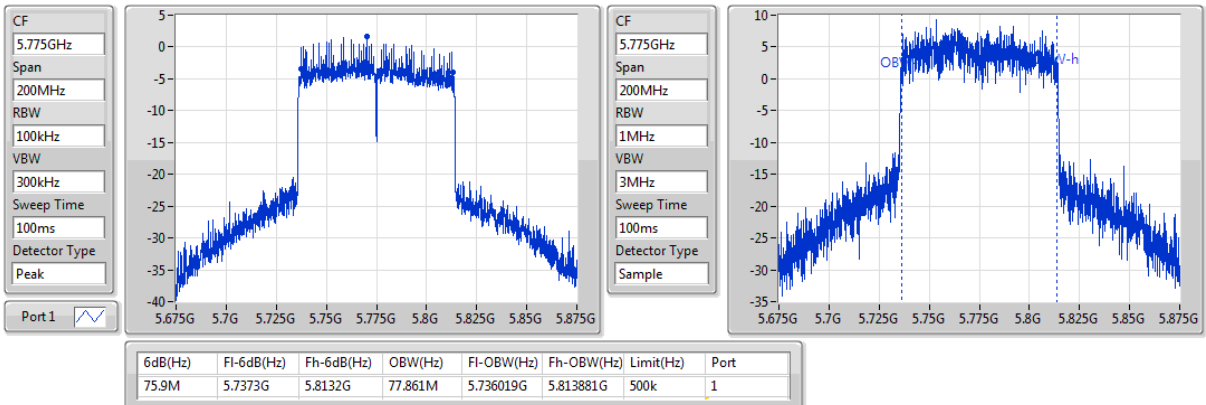


802.11ax HEW80_Nss1,(MCS0)_1TX

EBW

5775MHz

11/02/2019





EBW Result_Radio 1

Appendix B.12

For Non-beamforming / 2T2S mode Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.15-5.25GHz	-	-	-	-	-
802.11ax HEW20_Nss2,(MCS0)_2TX	42.775M	19.19M	19M2D1D	22.05M	18.941M
802.11ax HEW40_Nss2,(MCS0)_2TX	61.85M	37.681M	37M7D1D	39.95M	37.481M
802.11ax HEW80_Nss2,(MCS0)_2TX	81.7M	77.061M	77M1D1D	81.5M	76.862M
5.725-5.85GHz	-	-	-	-	-
802.11ax HEW20_Nss2,(MCS0)_2TX	18.775M	27.461M	27M5D1D	18.4M	20.165M
802.11ax HEW40_Nss2,(MCS0)_2TX	37.3M	48.876M	48M9D1D	35.85M	40.88M
802.11ax HEW80_Nss2,(MCS0)_2TX	76M	77.261M	77M3D1D	75.3M	76.962M

Max-N dB = Maximum 6dB down bandwidth for 5.725-5.85GHz band / Maximum 26dB down bandwidth for other band;

Max-OBW = Maximum 99% occupied bandwidth;

Min-N dB = Minimum 6dB down bandwidth for 5.725-5.85GHz band / Maximum 26dB down bandwidth for other band;

Min-OBW = Minimum 99% occupied bandwidth;

Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
802.11ax HEW20_Nss2,(MCS0)_2TX	-	-	-	-	-	-
5180MHz	Pass	Inf	22.05M	18.941M	22.375M	18.966M
5200MHz	Pass	Inf	33.875M	19.065M	41.9M	19.065M
5240MHz	Pass	Inf	35.675M	19.09M	42.775M	19.19M
5745MHz	Pass	500k	18.775M	27.461M	18.6M	25.887M
5785MHz	Pass	500k	18.4M	24.563M	18.6M	22.314M
5825MHz	Pass	500k	18.775M	21.114M	18.7M	20.165M
802.11ax HEW40_Nss2,(MCS0)_2TX	-	-	-	-	-	-
5190MHz	Pass	Inf	39.95M	37.481M	40M	37.531M
5230MHz	Pass	Inf	61.4M	37.681M	61.85M	37.631M
5755MHz	Pass	500k	35.85M	40.88M	37.25M	46.777M
5795MHz	Pass	500k	37.25M	48.876M	37.3M	45.177M
802.11ax HEW80_Nss2,(MCS0)_2TX	-	-	-	-	-	-
5210MHz	Pass	Inf	81.5M	77.061M	81.7M	76.862M
5775MHz	Pass	500k	75.3M	76.962M	76M	77.261M

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

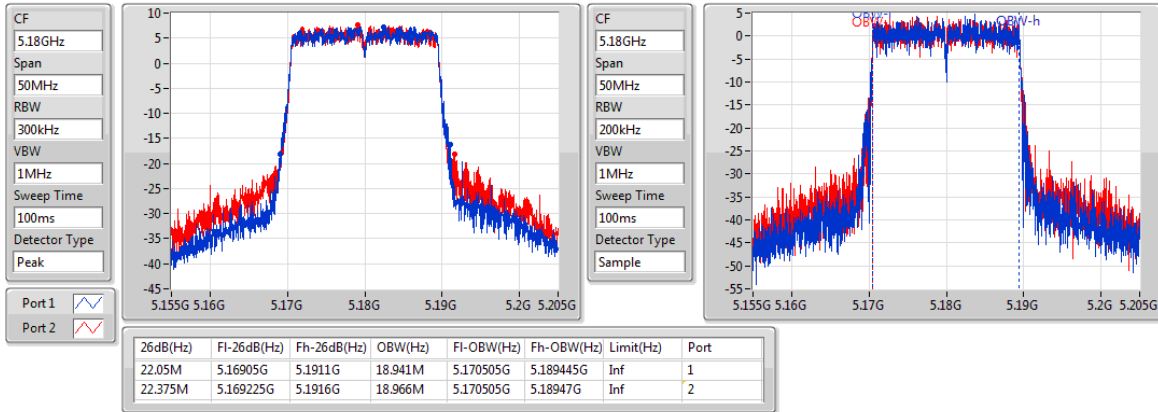
Port X-OBW = Port X 99% occupied bandwidth;

802.11ax HEW20_Nss2,(MCS0)_2TX

EBW

5180MHz

11/02/2019

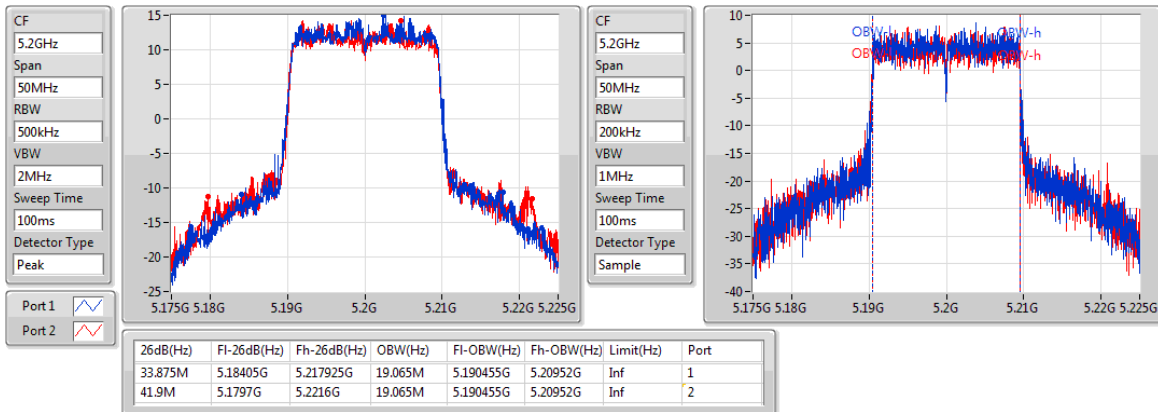


802.11ax HEW20_Nss2,(MCS0)_2TX

EBW

5200MHz

11/02/2019

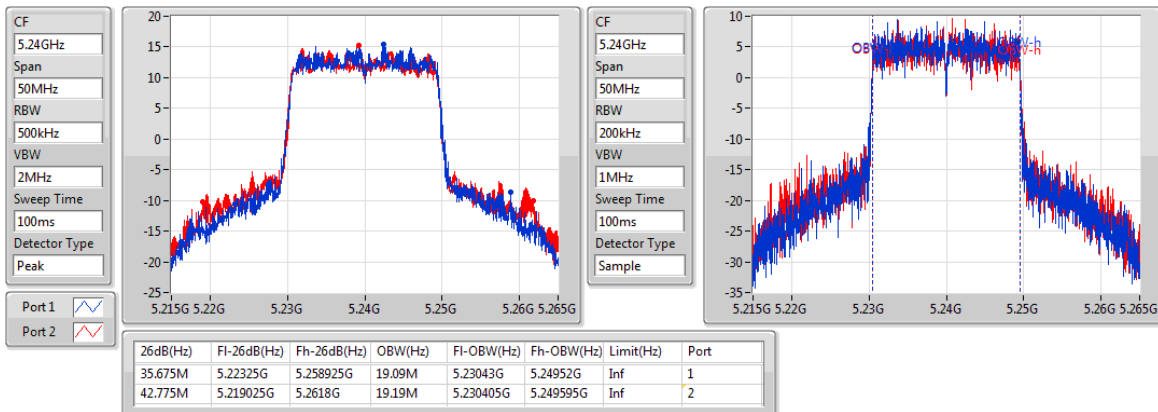


802.11ax HEW20_Nss2,(MCS0)_2TX

EBW

5240MHz

11/02/2019

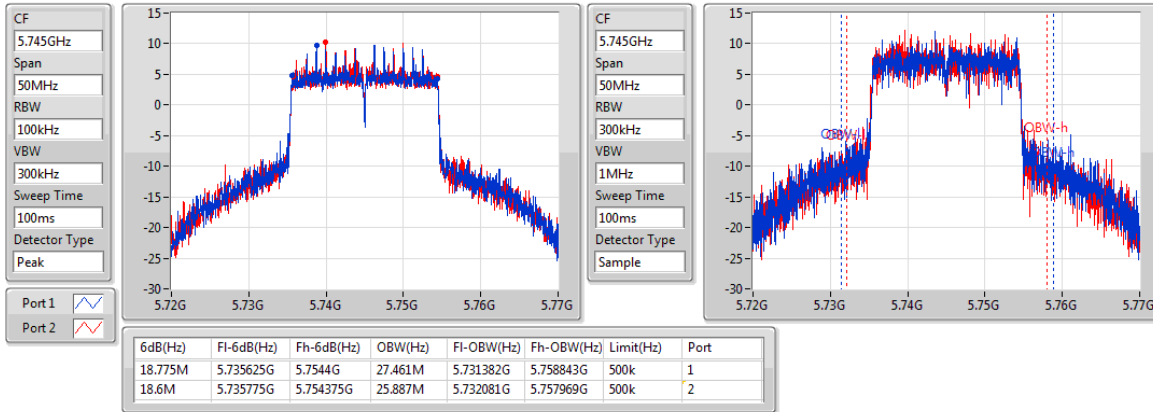


802.11ax HEW20_Nss2,(MCS0)_2TX

EBW

5745MHz

11/02/2019

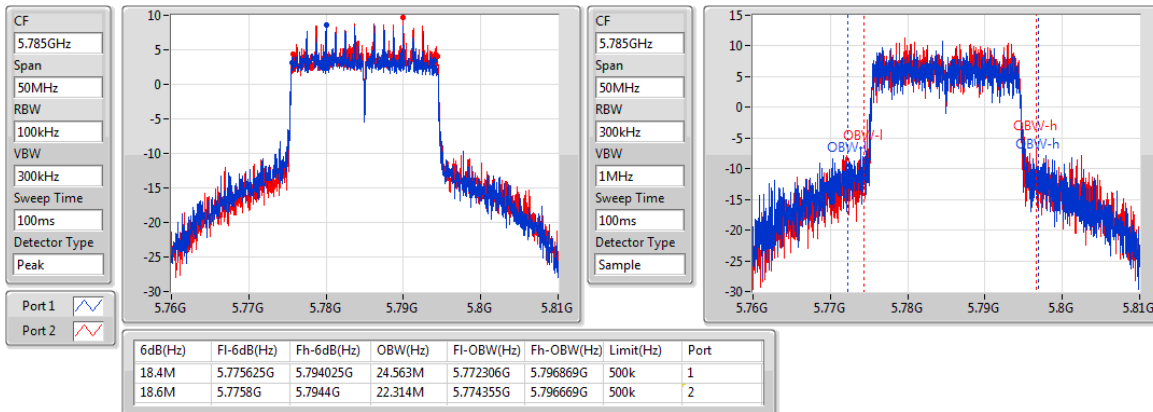


802.11ax HEW20_Nss2,(MCS0)_2TX

EBW

5785MHz

11/02/2019

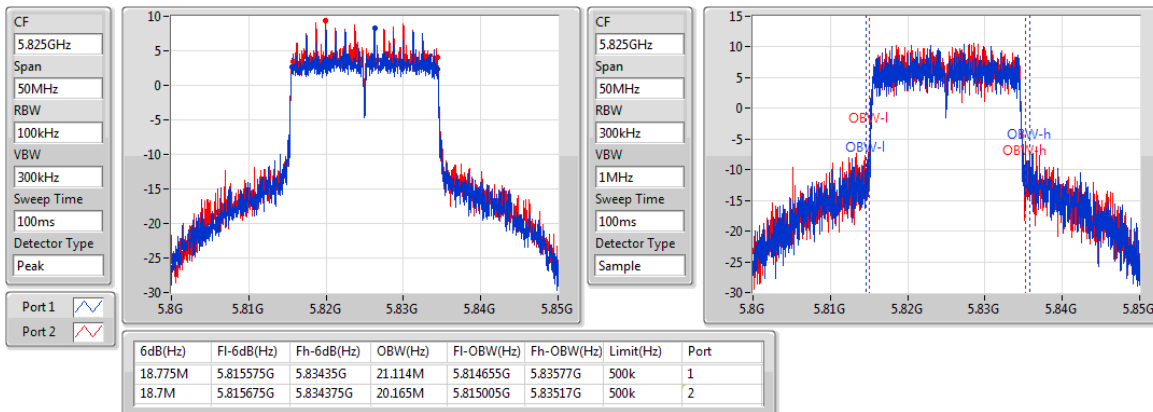


802.11ax HEW20_Nss2,(MCS0)_2TX

EBW

5825MHz

11/02/2019

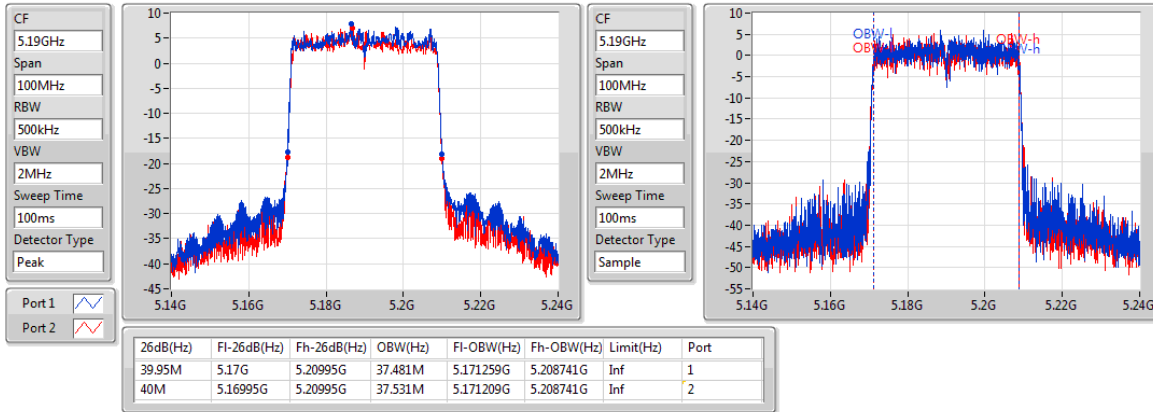


802.11ax HEW40_Nss2,(MCS0)_2TX

EBW

5190MHz

11/02/2019

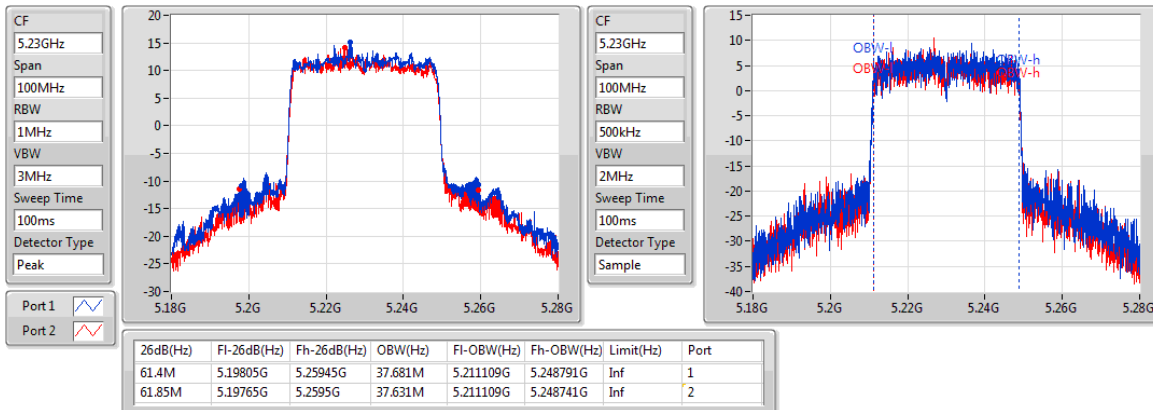


802.11ax HEW40_Nss2,(MCS0)_2TX

EBW

5230MHz

11/02/2019

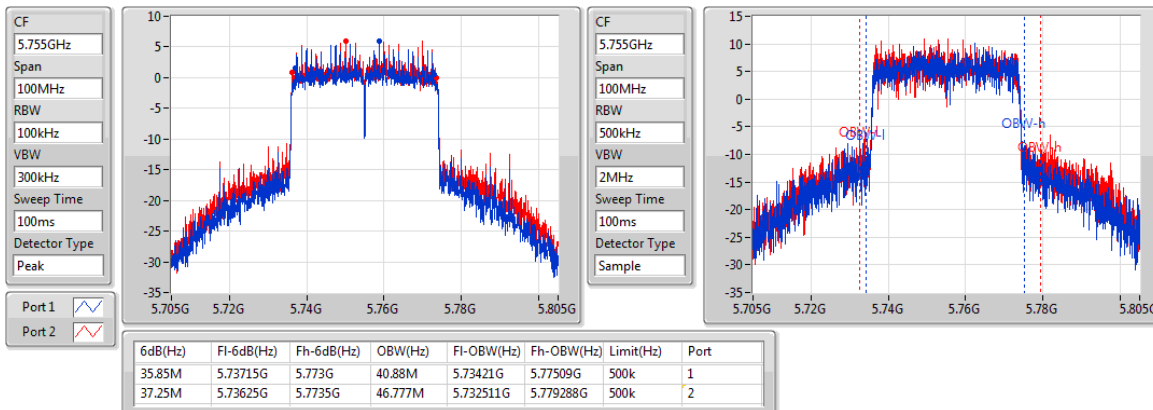


802.11ax HEW40_Nss2,(MCS0)_2TX

EBW

5755MHz

11/02/2019

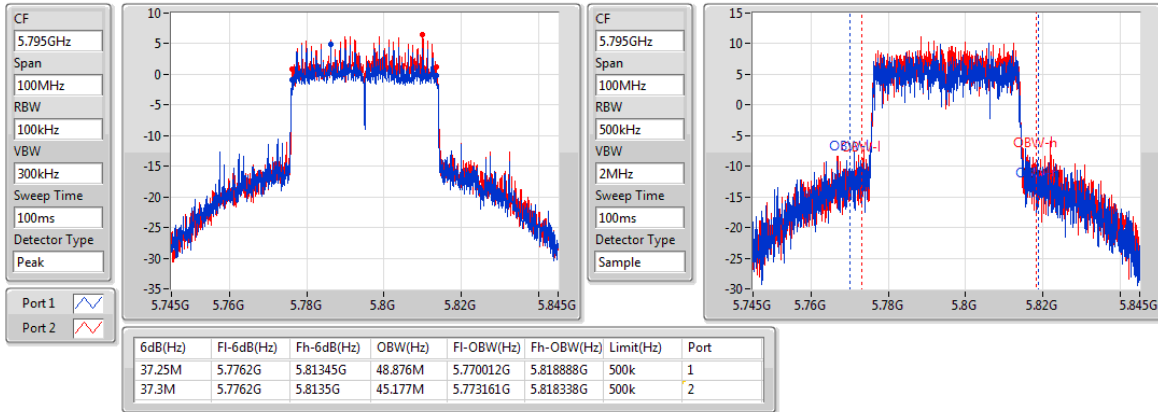


802.11ax HEW40_Nss2,(MCS0)_2TX

EBW

5795MHz

11/02/2019

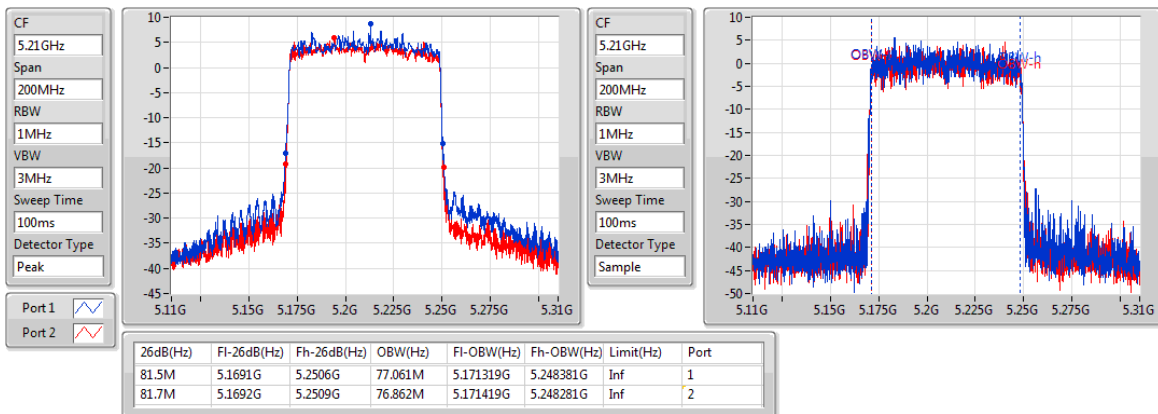


802.11ax HEW80_Nss2,(MCS0)_2TX

EBW

5210MHz

11/02/2019

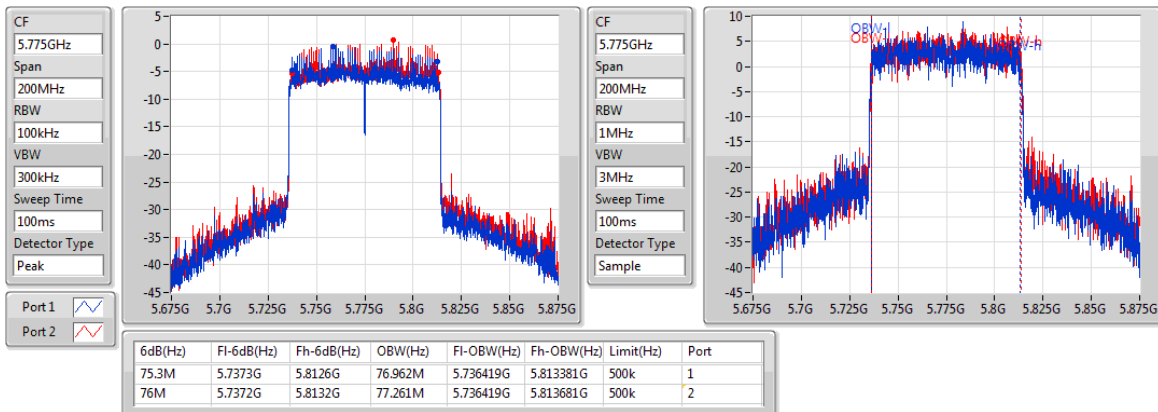


802.11ax HEW80_Nss2,(MCS0)_2TX

EBW

5775MHz

11/02/2019



**For Non-beamforming / 4T1S mode
Summary**

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.15-5.25GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	21.775M	16.592M	16M6D1D	21.325M	16.517M
802.11ax HEW20_Nss1,(MCS0)_4TX	24.1M	18.991M	19M0D1D	21.3M	18.916M
802.11ax HEW40_Nss1,(MCS0)_4TX	40.7M	37.681M	37M7D1D	39.95M	37.431M
802.11ax HEW80_Nss1,(MCS0)_4TX	81.2M	77.161M	77M2D1D	80.7M	76.862M
5.725-5.85GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	16.35M	23.363M	23M4D1D	16.275M	17.016M
802.11ax HEW20_Nss1,(MCS0)_4TX	18.95M	26.912M	26M9D1D	18.675M	19.365M
802.11ax HEW40_Nss1,(MCS0)_4TX	37.55M	45.027M	45M0D1D	36.4M	37.781M
802.11ax HEW80_Nss1,(MCS0)_4TX	77.4M	77.161M	77M2D1D	76.8M	77.061M

Max-N dB = Maximum 6dB down bandwidth for 5.725-5.85GHz band / Maximum 26dB down bandwidth for other band;

Max-OBW = Maximum 99% occupied bandwidth;

Min-N dB = Minimum 6dB down bandwidth for 5.725-5.85GHz band / Maximum 26dB down bandwidth for other band;

Min-OBW = Minimum 99% occupied bandwidth;

Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)	Port 3-N dB (Hz)	Port 3-OBW (Hz)	Port 4-N dB (Hz)	Port 4-OBW (Hz)
802.11a_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	Inf	21.45M	16.567M	21.45M	16.542M	21.5M	16.542M	21.525M	16.592M
5200MHz	Pass	Inf	21.45M	16.567M	21.55M	16.567M	21.775M	16.517M	21.475M	16.592M
5240MHz	Pass	Inf	21.325M	16.542M	21.45M	16.567M	21.65M	16.542M	21.4M	16.567M
5745MHz	Pass	500k	16.3M	22.664M	16.275M	22.189M	16.3M	23.363M	16.35M	22.489M
5785MHz	Pass	500k	16.325M	20.54M	16.3M	20.54M	16.3M	21.914M	16.3M	19.84M
5825MHz	Pass	500k	16.3M	17.991M	16.3M	17.516M	16.3M	18.791M	16.275M	17.016M
802.11ax HEW20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	Inf	21.675M	18.966M	21.625M	18.991M	22.75M	18.941M	21.325M	18.966M
5200MHz	Pass	Inf	23.325M	18.966M	22.5M	18.991M	24.1M	18.991M	21.4M	18.966M
5240MHz	Pass	Inf	22.875M	18.966M	22.625M	18.966M	23.5M	18.966M	21.3M	18.916M
5745MHz	Pass	500k	18.825M	25.962M	18.775M	25.887M	18.85M	26.912M	18.675M	26.662M
5785MHz	Pass	500k	18.75M	24.888M	18.7M	23.963M	18.875M	24.488M	18.825M	21.739M
5825MHz	Pass	500k	18.85M	21.289M	18.7M	21.514M	18.85M	21.914M	18.95M	19.365M
802.11ax HEW40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	Inf	40M	37.431M	39.95M	37.681M	40.15M	37.581M	40.2M	37.581M
5230MHz	Pass	Inf	40.1M	37.631M	40M	37.581M	40.15M	37.581M	40.7M	37.631M
5755MHz	Pass	500k	37.2M	37.831M	37.15M	37.831M	37.5M	38.081M	37.55M	37.781M
5795MHz	Pass	500k	37.5M	45.027M	36.4M	39.58M	37.25M	44.328M	37.55M	38.381M
802.11ax HEW80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	Inf	81.2M	76.962M	80.7M	76.962M	81.2M	77.161M	81.2M	76.862M
5775MHz	Pass	500k	76.8M	77.161M	76.9M	77.161M	77.4M	77.161M	77.1M	77.061M

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

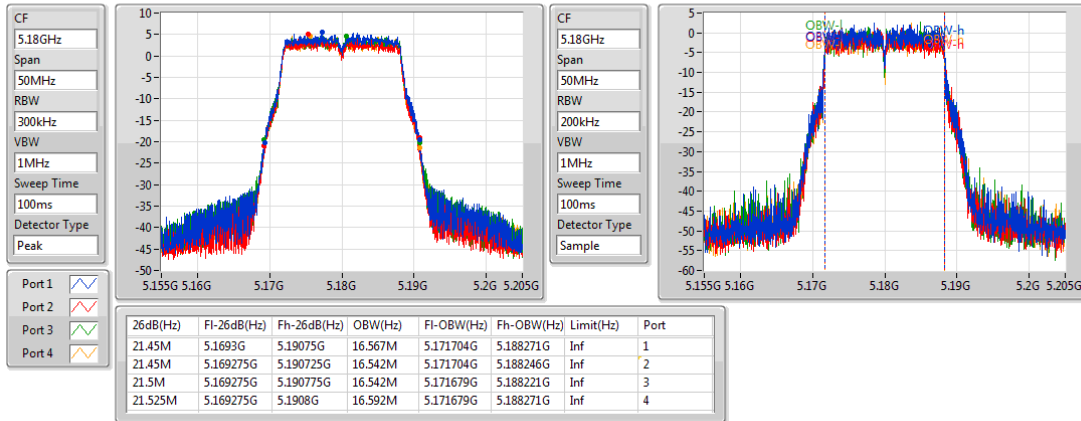
Port X-OBW = Port X 99% occupied bandwidth;

802.11a_Nss1,(6Mbps)_4TX

EBW

5180MHz

11/02/2019

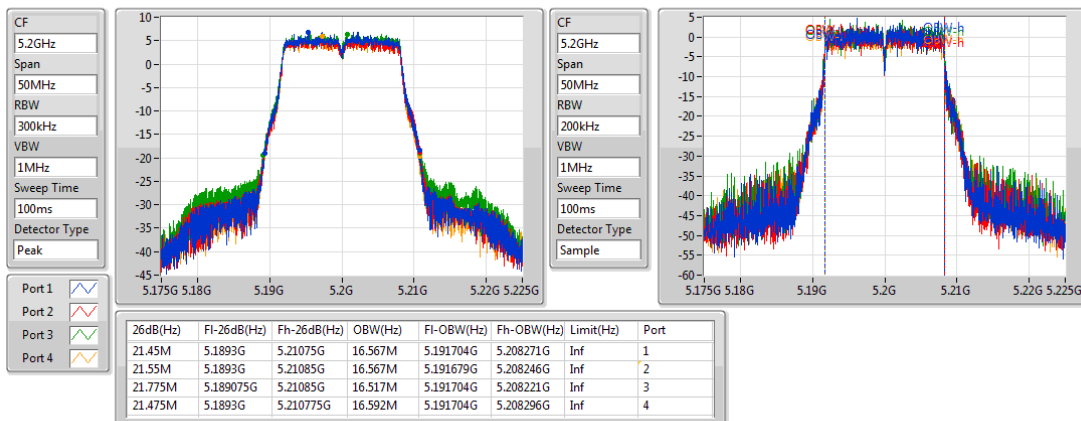


802.11a_Nss1,(6Mbps)_4TX

EBW

5200MHz

11/02/2019

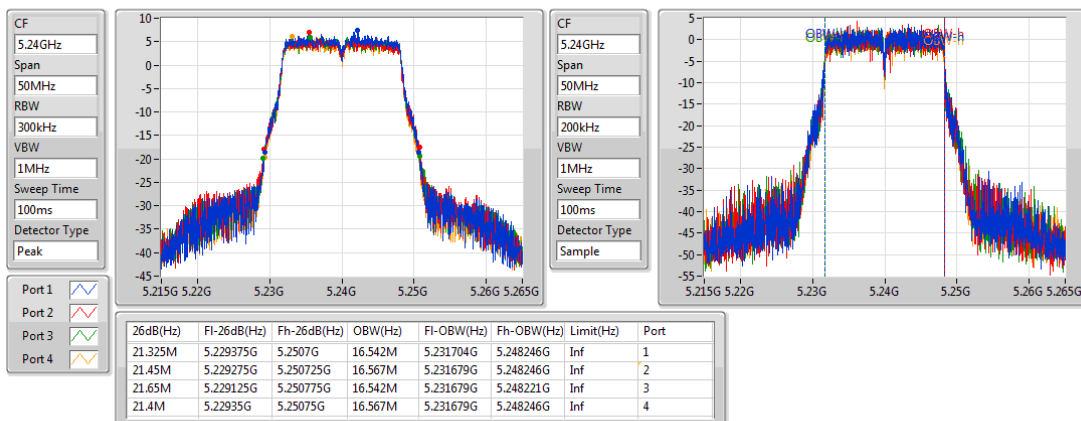


802.11a_Nss1,(6Mbps)_4TX

EBW

5240MHz

11/02/2019

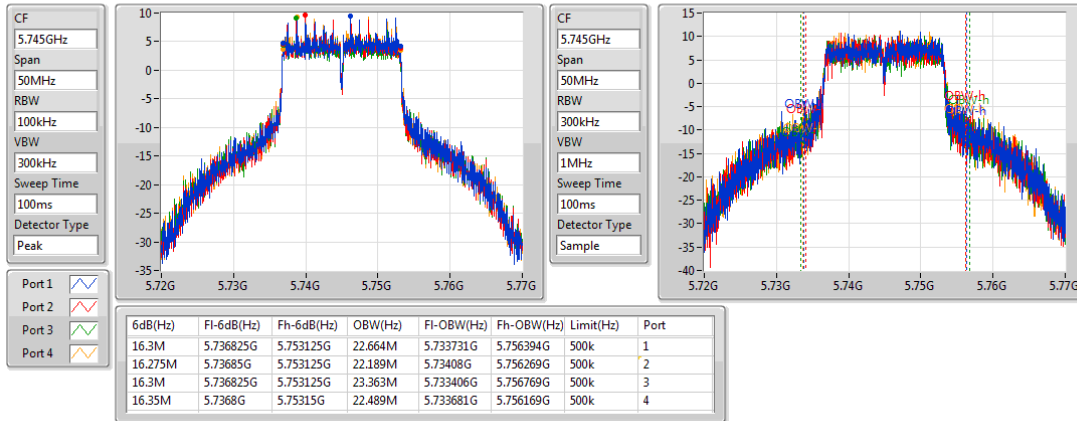


802.11a_Nss1,(6Mbps)_4TX

EBW

5745MHz

11/02/2019

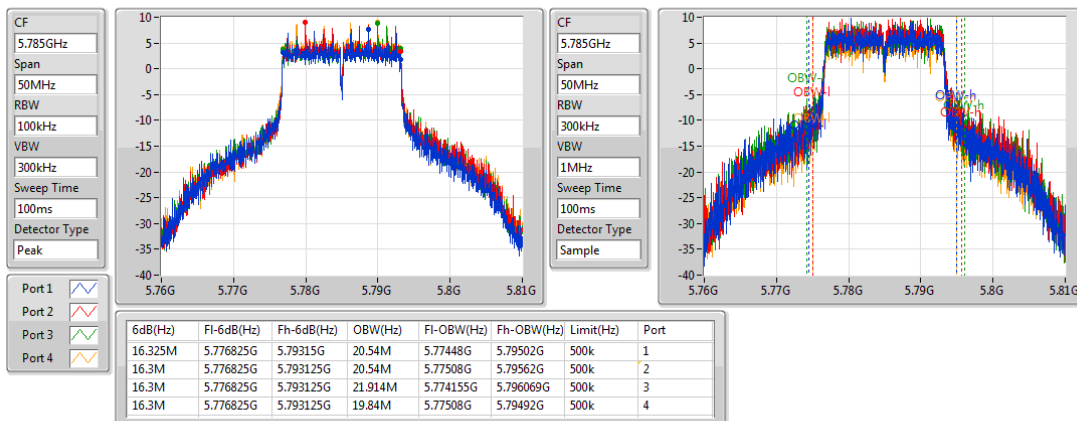


802.11a_Nss1,(6Mbps)_4TX

EBW

5785MHz

11/02/2019

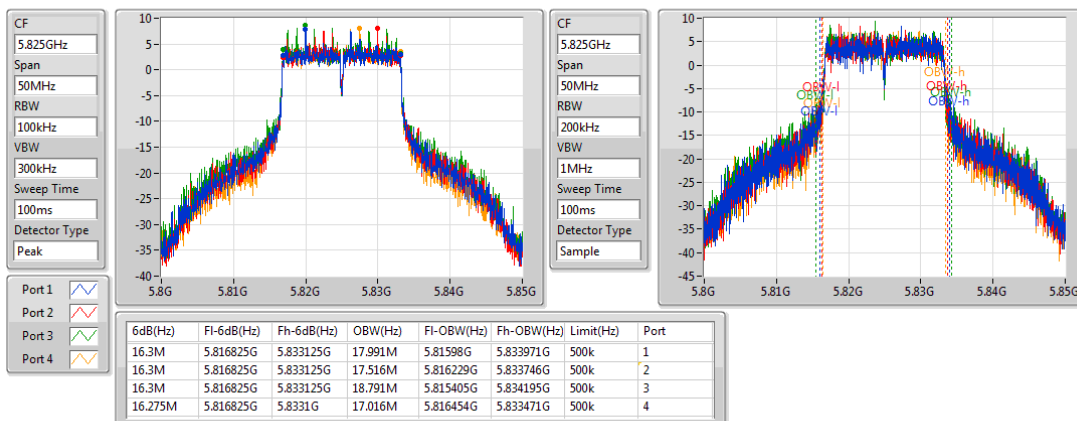


802.11a_Nss1,(6Mbps)_4TX

EBW

5825MHz

11/02/2019

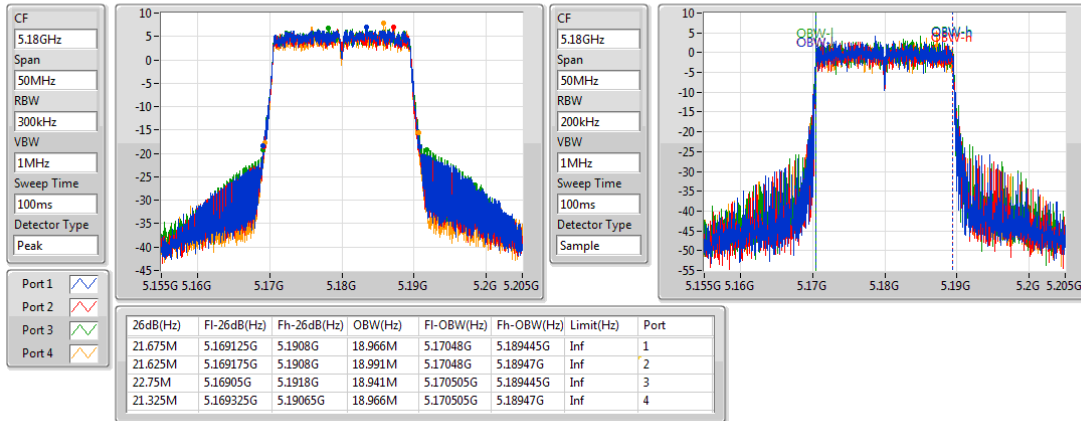


802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

5180MHz

11/02/2019

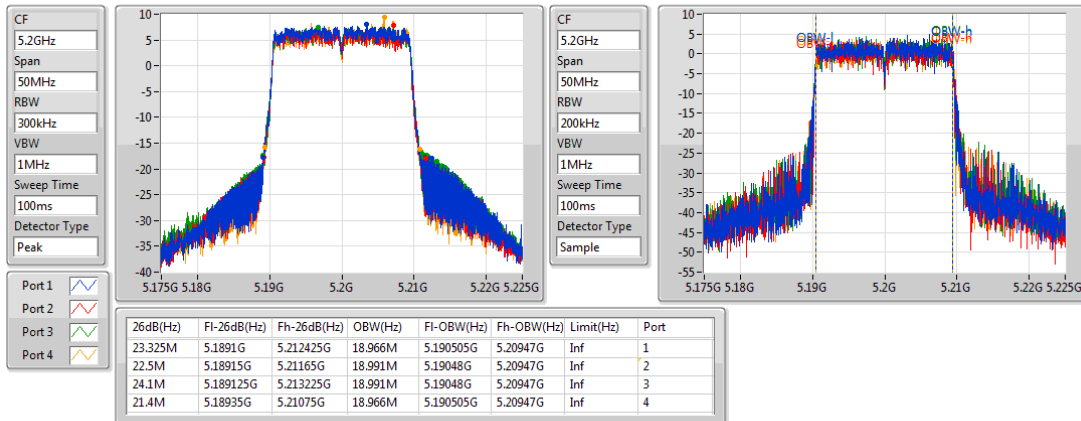


802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

5200MHz

11/02/2019

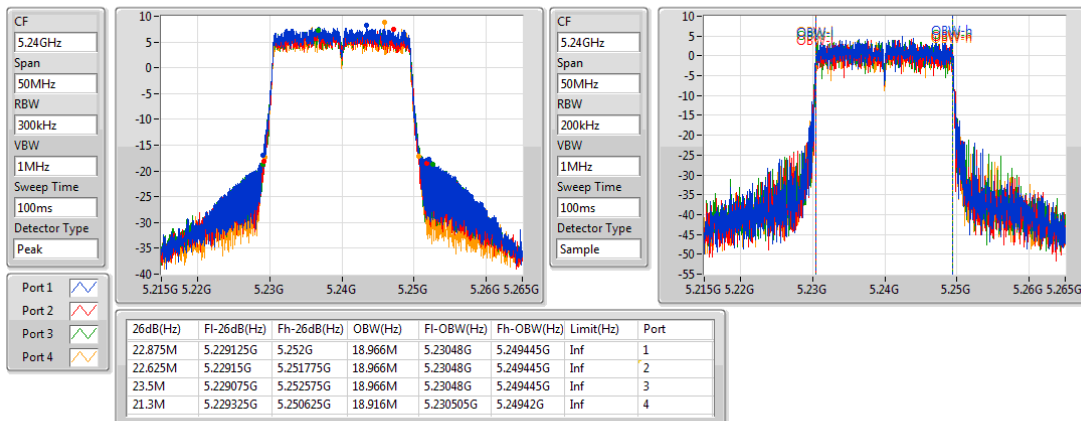


802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

5240MHz

11/02/2019

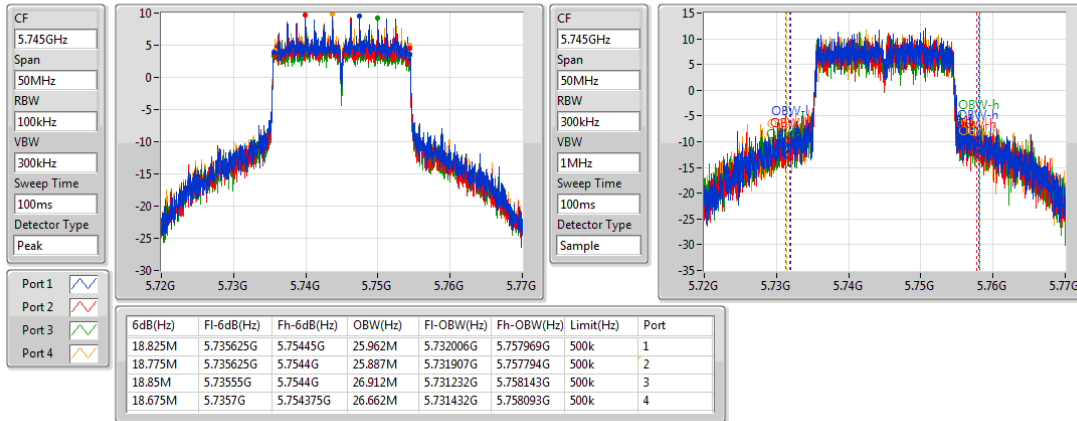


802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

5745MHz

11/02/2019

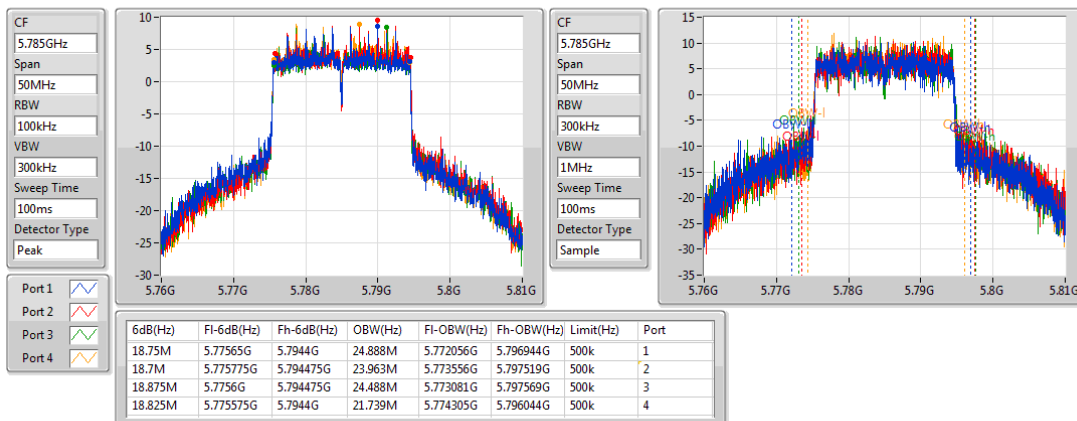


802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

5785MHz

11/02/2019

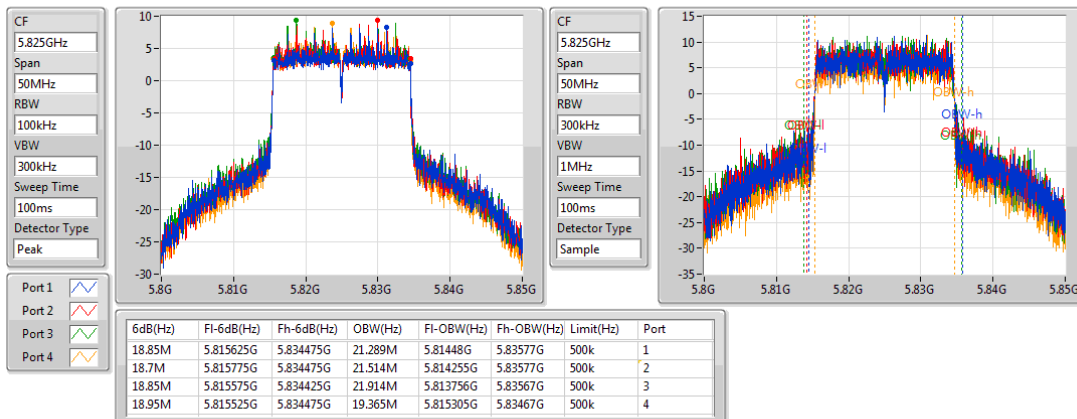


802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

5825MHz

11/02/2019

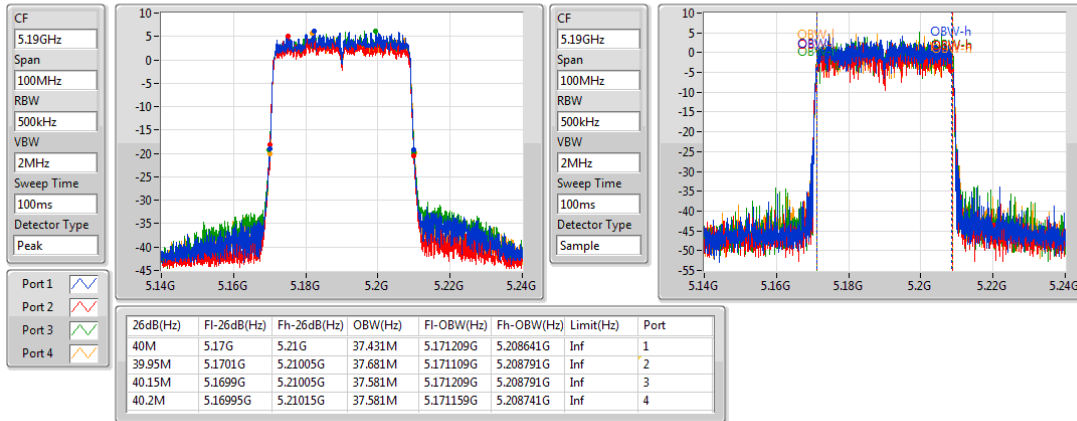


802.11ax HEW40_Nss1,(MCS0)_4TX

EBW

5190MHz

11/02/2019

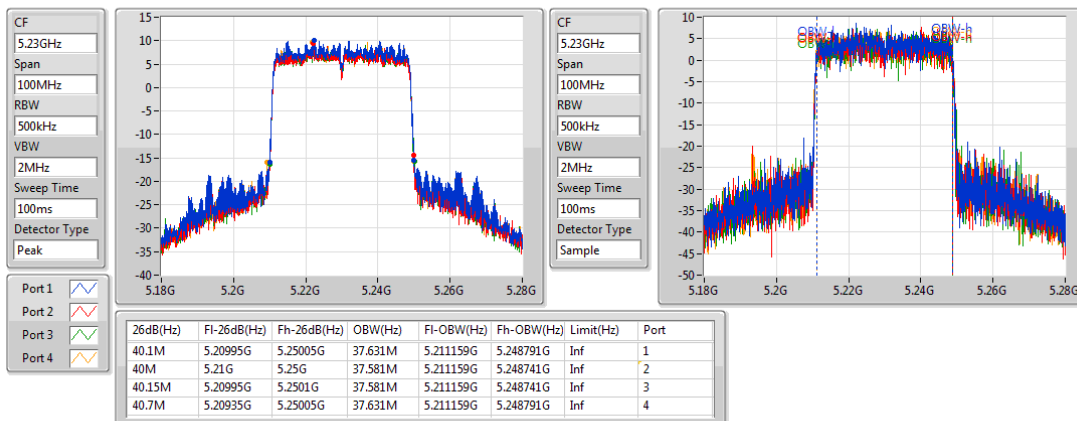


802.11ax HEW40_Nss1,(MCS0)_4TX

EBW

5230MHz

11/02/2019

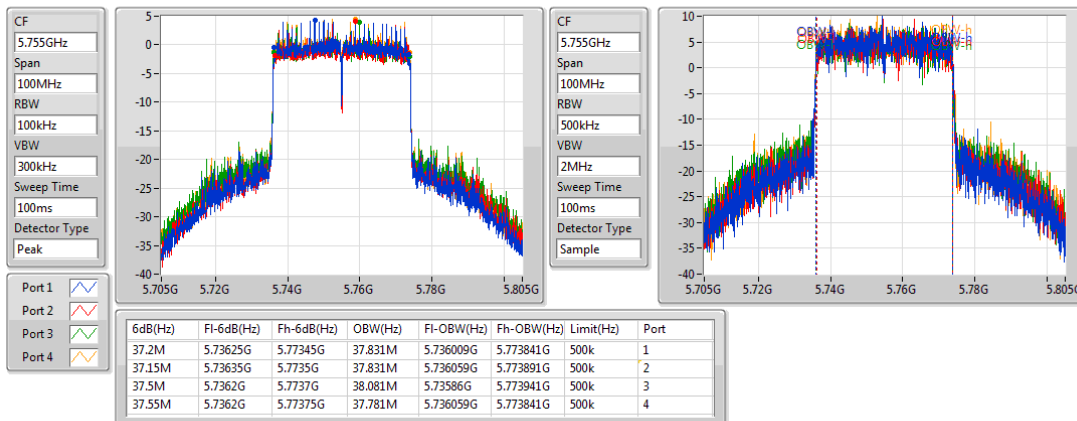


802.11ax HEW40_Nss1,(MCS0)_4TX

EBW

5755MHz

11/02/2019

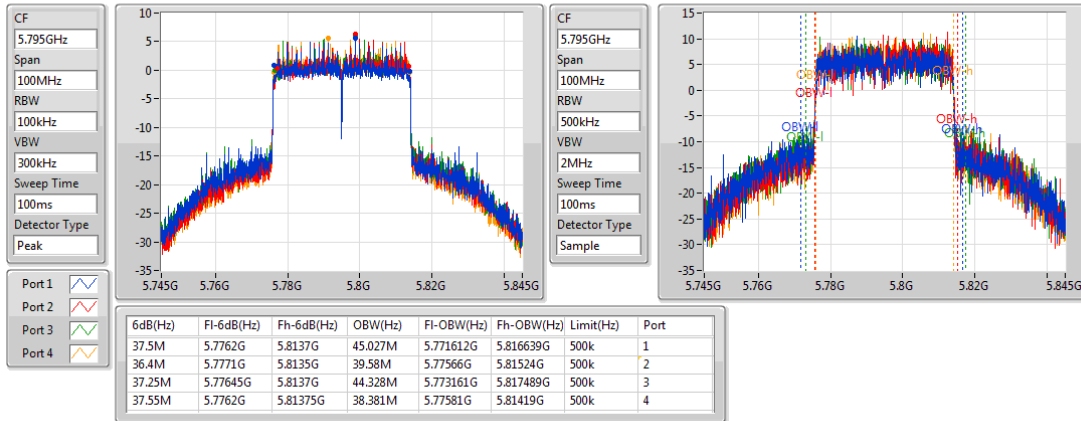


802.11ax HEW40_Nss1,(MCS0)_4TX

EBW

5795MHz

11/02/2019

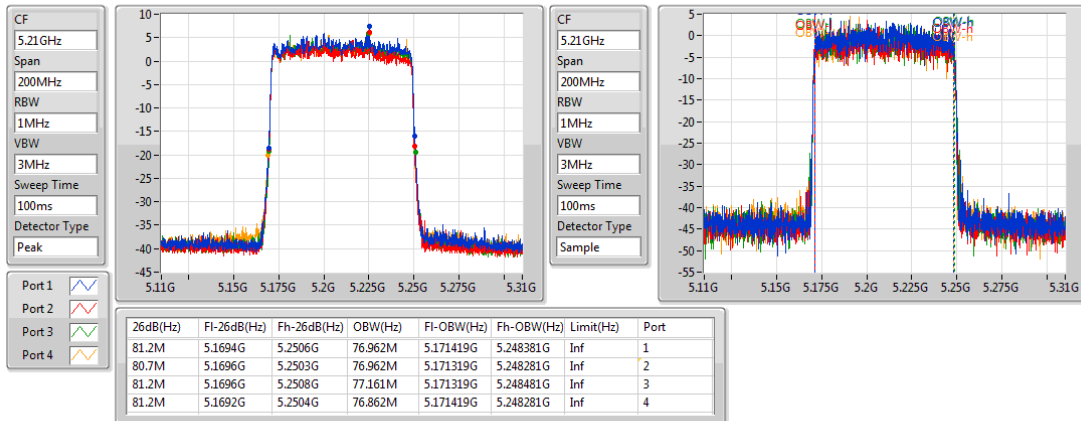


802.11ax HEW80_Nss1,(MCS0)_4TX

EBW

5210MHz

11/02/2019

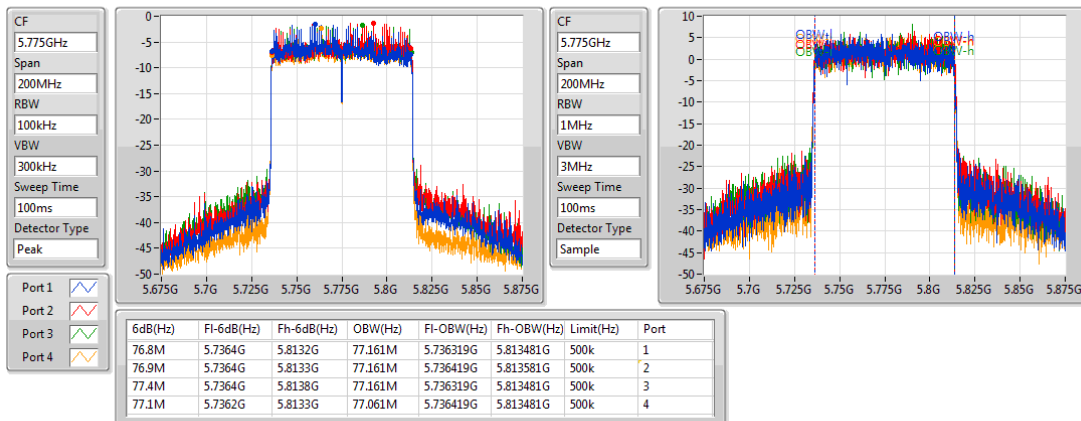


802.11ax HEW80_Nss1,(MCS0)_4TX

EBW

5775MHz

11/02/2019





EBW Result_Radio 1

Appendix B.14

For Beamforming / 4T1S mode Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.15-5.25GHz	-	-	-	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	23.525M	18.991M	19M0D1D	21.25M	18.966M
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	40.5M	37.581M	37M6D1D	39.95M	37.431M
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	81.5M	77.161M	77M2D1D	81M	76.962M
5.725-5.85GHz	-	-	-	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	19.025M	19.015M	19M0D1D	18.925M	18.941M
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	37.55M	37.681M	37M7D1D	37.15M	37.431M
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	77.4M	77.161M	77M2D1D	76.7M	77.061M

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)
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	Inf	21.8M	18.966M	21.7M	18.966M	22M	18.991M	21.475M	18.966M
5200MHz	Pass	Inf	21.775M	18.966M	21.675M	18.966M	23.35M	18.966M	21.425M	18.991M
5240MHz	Pass	Inf	21.675M	18.966M	21.55M	18.966M	23.525M	18.966M	21.25M	18.966M
5745MHz	Pass	500k	18.95M	18.966M	19M	18.991M	18.95M	18.991M	19.025M	18.966M
5785MHz	Pass	500k	19M	18.966M	19M	19.015M	18.925M	18.991M	18.925M	18.966M
5825MHz	Pass	500k	18.975M	18.941M	19.025M	18.966M	19M	18.966M	19.025M	19.015M
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	Inf	39.95M	37.531M	40.25M	37.481M	40.3M	37.531M	40.15M	37.431M
5230MHz	Pass	Inf	40.05M	37.581M	40.35M	37.581M	40.5M	37.531M	40.15M	37.581M
5755MHz	Pass	500k	37.5M	37.431M	37.15M	37.481M	37.55M	37.681M	37.15M	37.531M
5795MHz	Pass	500k	37.25M	37.481M	37.35M	37.631M	37.3M	37.581M	37.5M	37.581M
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	Inf	81.5M	76.962M	81.1M	77.161M	81.2M	76.962M	81M	76.962M
5775MHz	Pass	500k	77.4M	77.161M	76.9M	77.161M	76.7M	77.161M	77M	77.061M

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

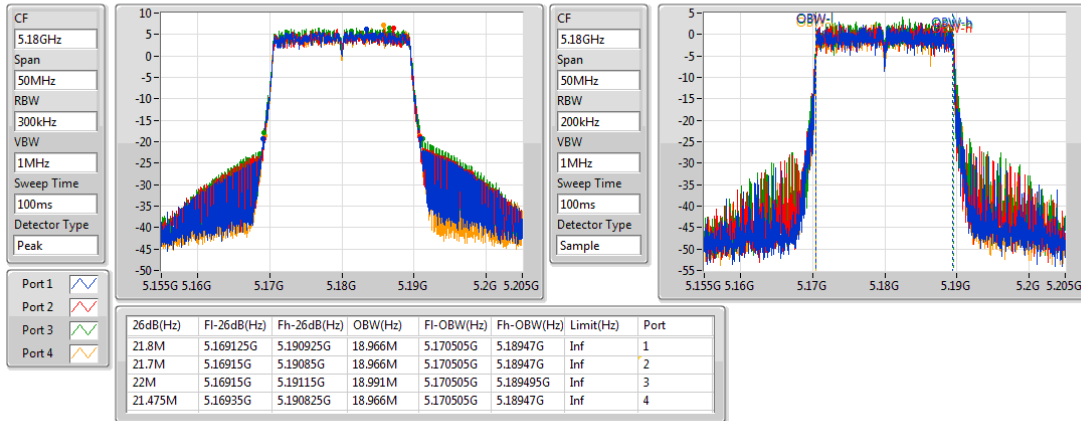
Port X-OBW = Port X 99% occupied bandwidth;

802.11ax HEW20-BF_Nss1,(MCS0)_4TX

EBW

5180MHz

13/02/2019

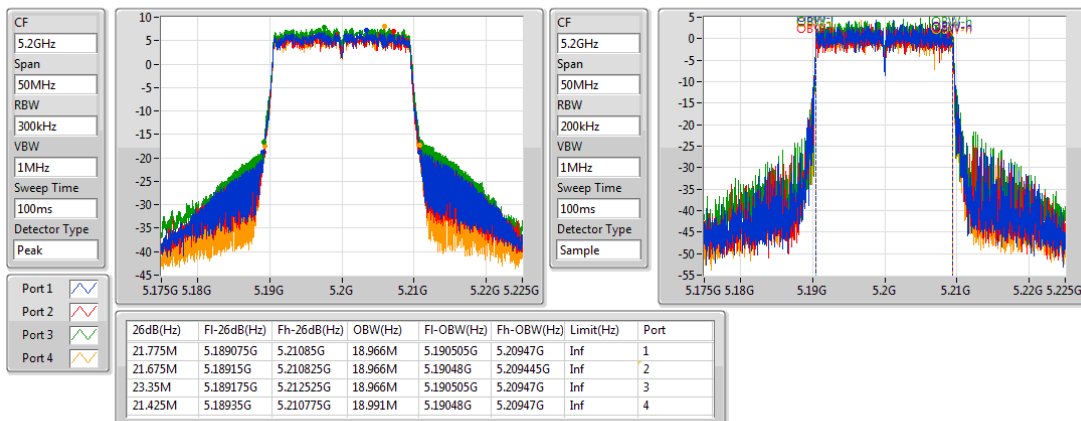


802.11ax HEW20-BF_Nss1,(MCS0)_4TX

EBW

5200MHz

13/02/2019

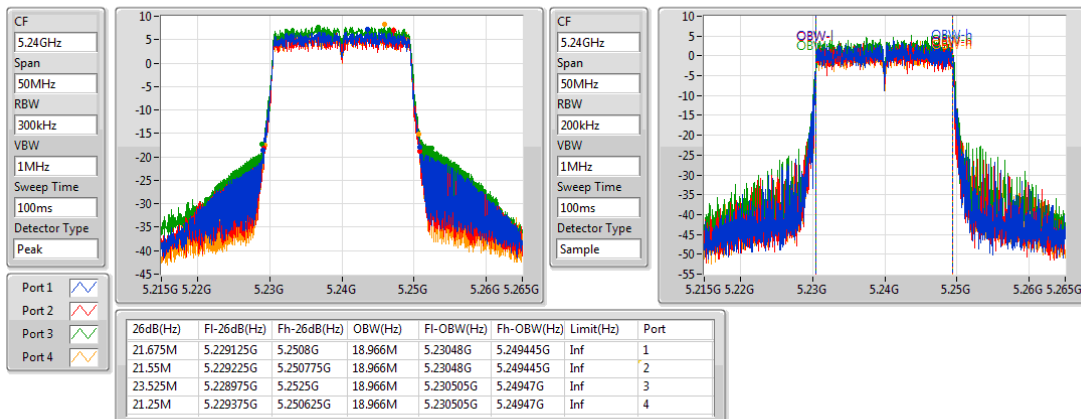


802.11ax HEW20-BF_Nss1,(MCS0)_4TX

EBW

5240MHz

13/02/2019

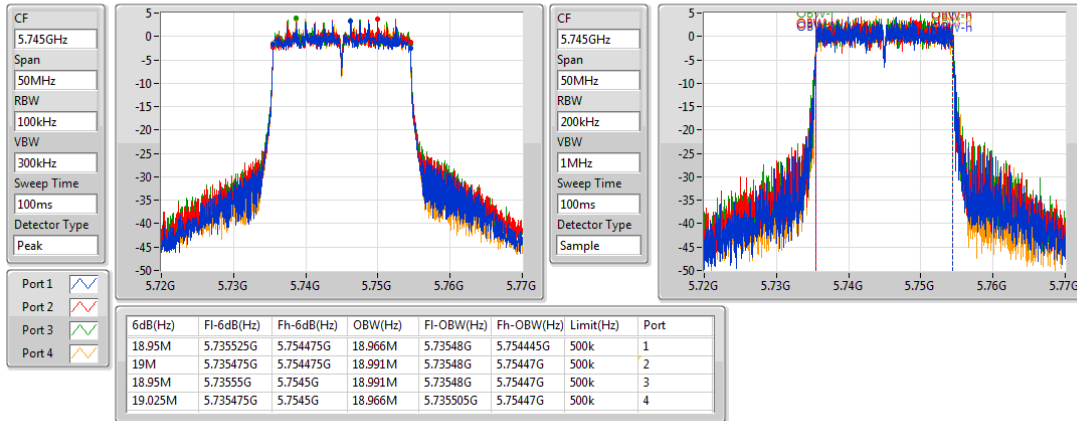


802.11ax HEW20-BF_Nss1,(MCS0)_4TX

EBW

5745MHz

13/02/2019

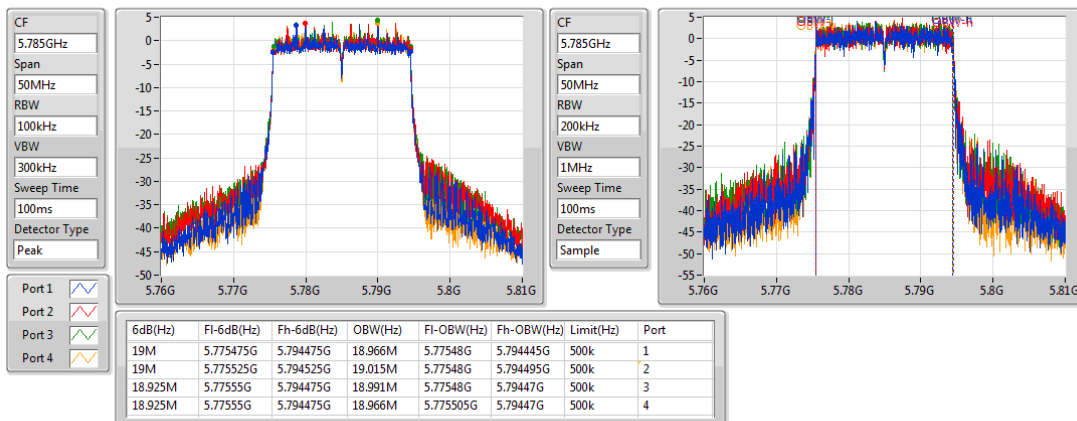


802.11ax HEW20-BF_Nss1,(MCS0)_4TX

EBW

5785MHz

13/02/2019

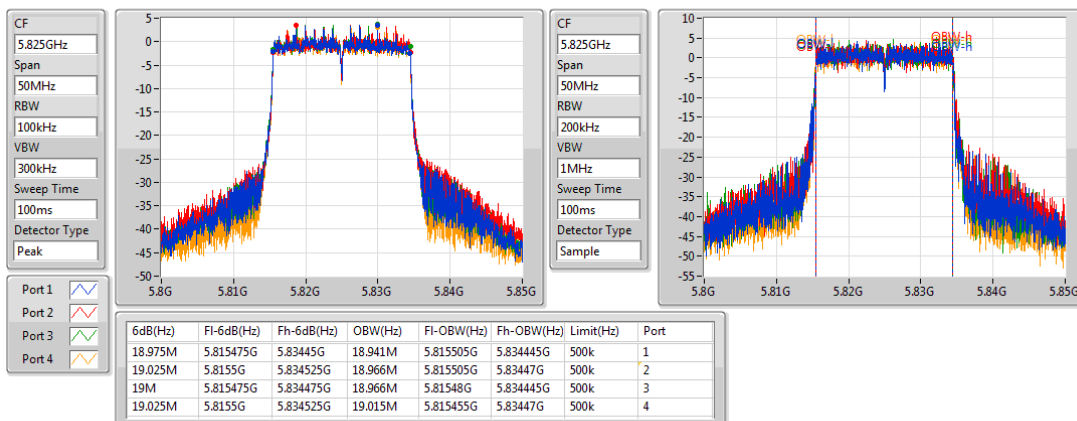


802.11ax HEW20-BF_Nss1,(MCS0)_4TX

EBW

5825MHz

13/02/2019

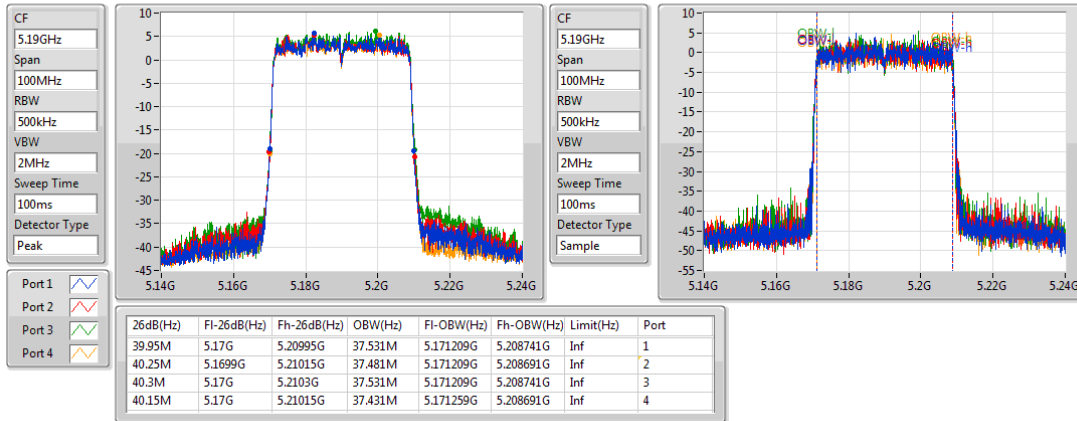


802.11ax HEW40-BF_Nss1,(MCS0)_4TX

EBW

5190MHz

13/02/2019

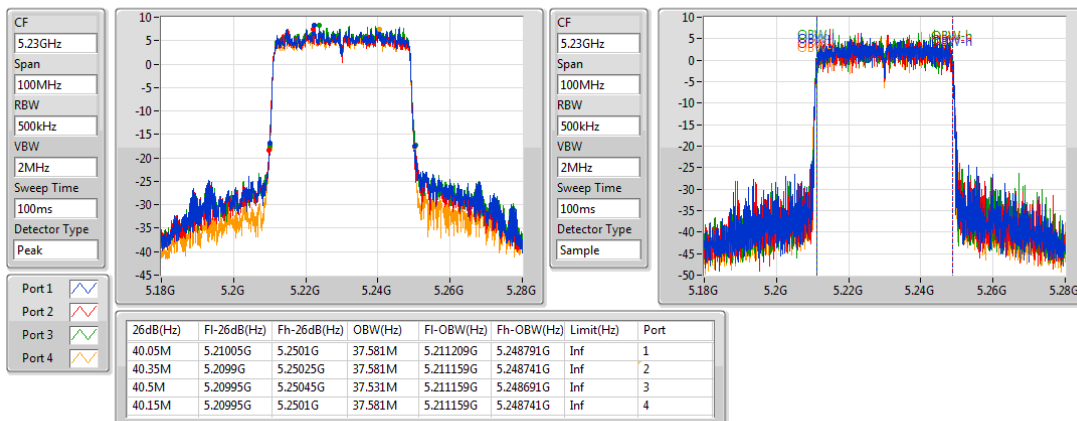


802.11ax HEW40-BF_Nss1,(MCS0)_4TX

EBW

5230MHz

13/02/2019

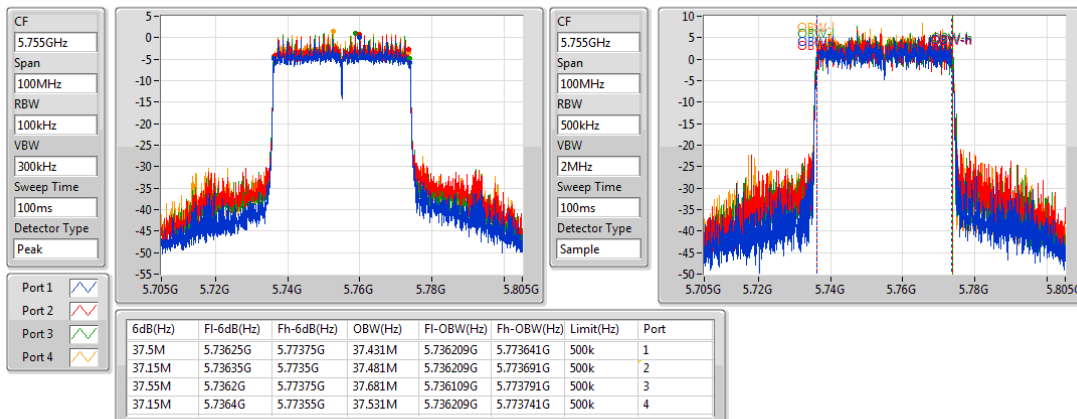


802.11ax HEW40-BF_Nss1,(MCS0)_4TX

EBW

5755MHz

13/02/2019

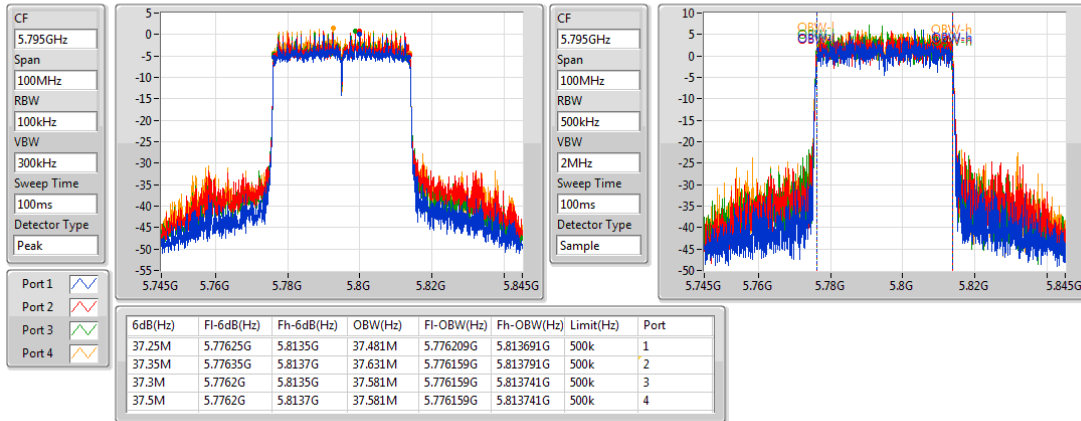


802.11ax HEW40-BF_Nss1,(MCS0)_4TX

EBW

5795MHz

13/02/2019

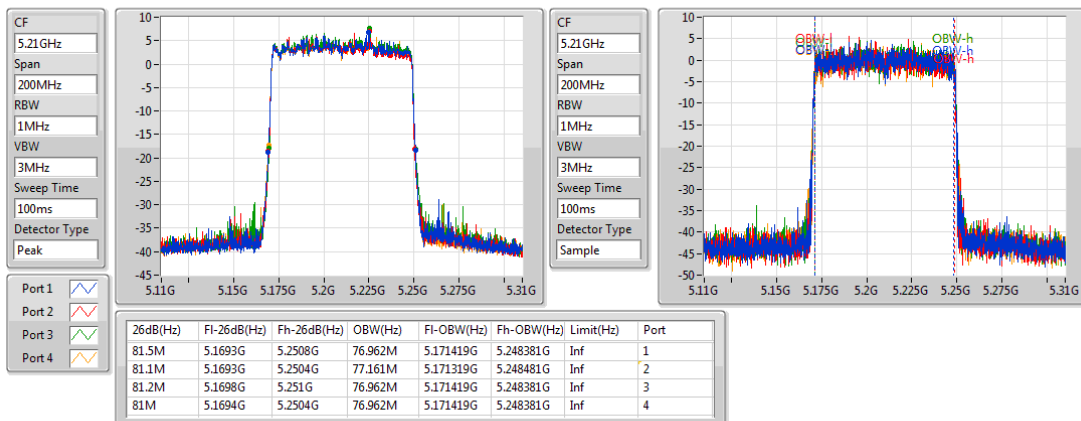


802.11ax HEW80-BF_Nss1,(MCS0)_4TX

EBW

5210MHz

13/02/2019

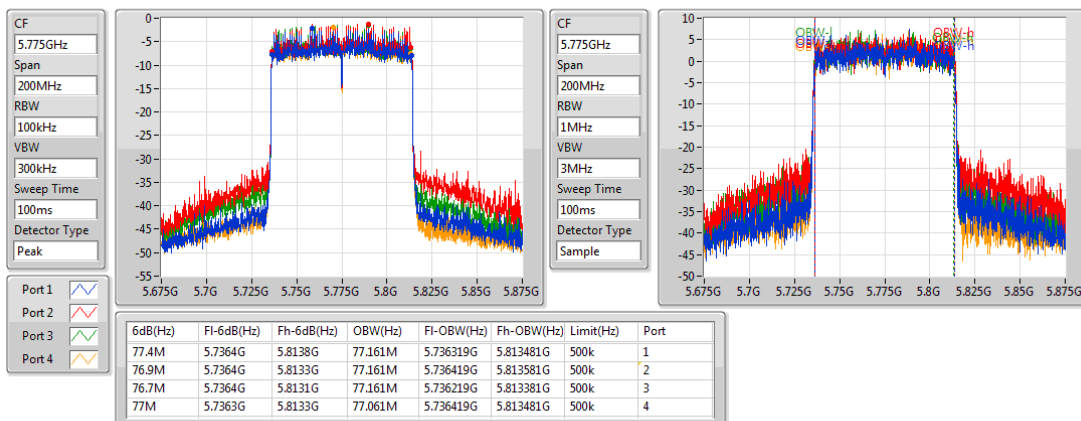


802.11ax HEW80-BF_Nss1,(MCS0)_4TX

EBW

5775MHz

13/02/2019





EBW Result_Radio 1

Appendix B.15

For Non-beamforming / 4T4S mode Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.15-5.25GHz	-	-	-	-	-
802.11ax HEW20_Nss4,(MCS0)_4TX	43.175M	19.09M	19M1D1D	21.325M	18.916M
802.11ax HEW40_Nss4,(MCS0)_4TX	49.6M	37.731M	37M7D1D	40M	37.531M
802.11ax HEW80_Nss4,(MCS0)_4TX	82M	77.161M	77M2D1D	81M	76.862M
5.725-5.85GHz	-	-	-	-	-
802.11ax HEW20_Nss4,(MCS0)_4TX	19M	26.387M	26M4D1D	17.875M	19.29M
802.11ax HEW40_Nss4,(MCS0)_4TX	37.5M	40.68M	40M7D1D	36.35M	37.731M
802.11ax HEW80_Nss4,(MCS0)_4TX	77.6M	77.261M	77M3D1D	75.4M	76.962M

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)
802.11ax HEW20_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	Inf	21.825M	18.916M	21.825M	18.966M	21.775M	18.966M	21.325M	18.941M
5200MHz	Pass	Inf	22.6M	18.966M	22.575M	18.991M	26.625M	18.991M	26.25M	18.941M
5240MHz	Pass	Inf	38.375M	19.065M	40.775M	19.09M	43.175M	19.09M	40.875M	19.065M
5745MHz	Pass	500k	18.475M	26.387M	17.875M	25.612M	18.65M	25.687M	18.575M	25.037M
5785MHz	Pass	500k	18.625M	24.363M	18.75M	22.039M	18.65M	25.687M	19M	22.864M
5825MHz	Pass	500k	18.65M	19.99M	18.5M	19.74M	18.675M	21.289M	18.775M	19.29M
802.11ax HEW40_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	Inf	40.15M	37.531M	40.1M	37.531M	40M	37.581M	40.25M	37.731M
5230MHz	Pass	Inf	42.8M	37.631M	42.8M	37.581M	49.6M	37.581M	40.2M	37.581M
5755MHz	Pass	500k	37.15M	37.731M	36.9M	37.731M	37.5M	38.031M	36.95M	37.881M
5795MHz	Pass	500k	37.15M	40.68M	36.35M	38.281M	37.45M	40.23M	37.1M	38.031M
802.11ax HEW80_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	Inf	81.6M	76.962M	81M	77.161M	81.7M	76.862M	82M	77.061M
5775MHz	Pass	500k	75.4M	77.061M	77.6M	76.962M	75.8M	77.261M	75.9M	76.962M

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

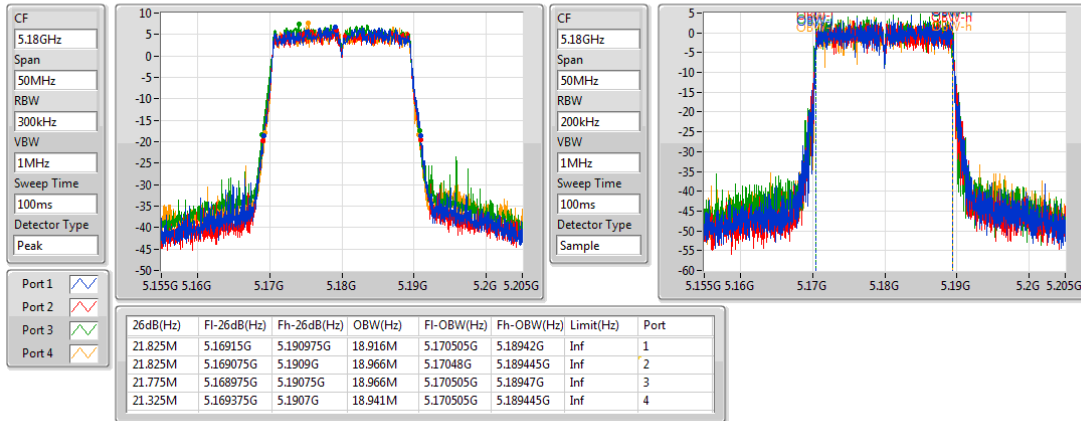
Port X-OBW = Port X 99% occupied bandwidth;

802.11ax HEW20_Nss4,(MCS0)_4TX

EBW

5180MHz

11/02/2019

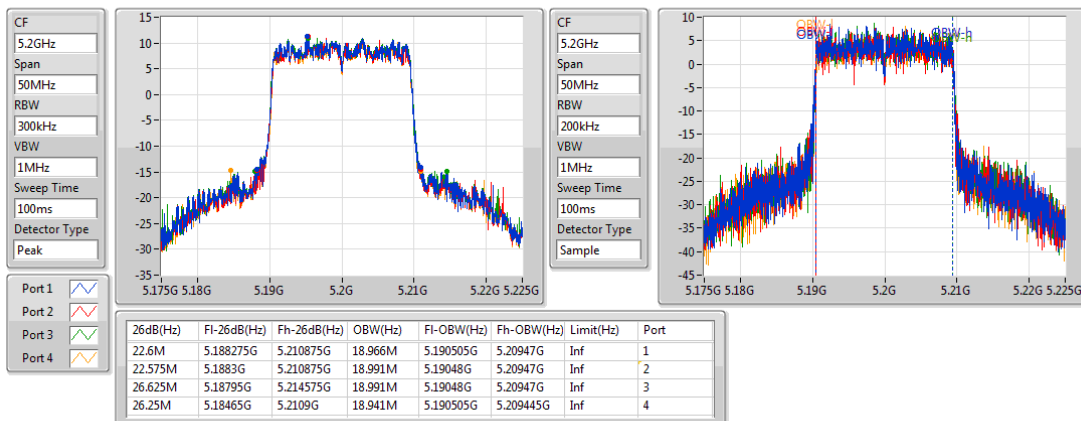


802.11ax HEW20_Nss4,(MCS0)_4TX

EBW

5200MHz

11/02/2019

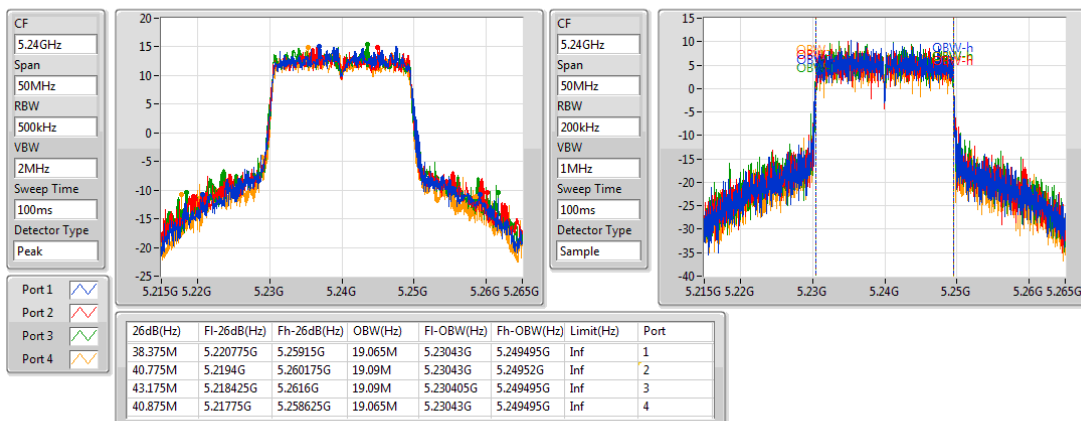


802.11ax HEW20_Nss4,(MCS0)_4TX

EBW

5240MHz

11/02/2019

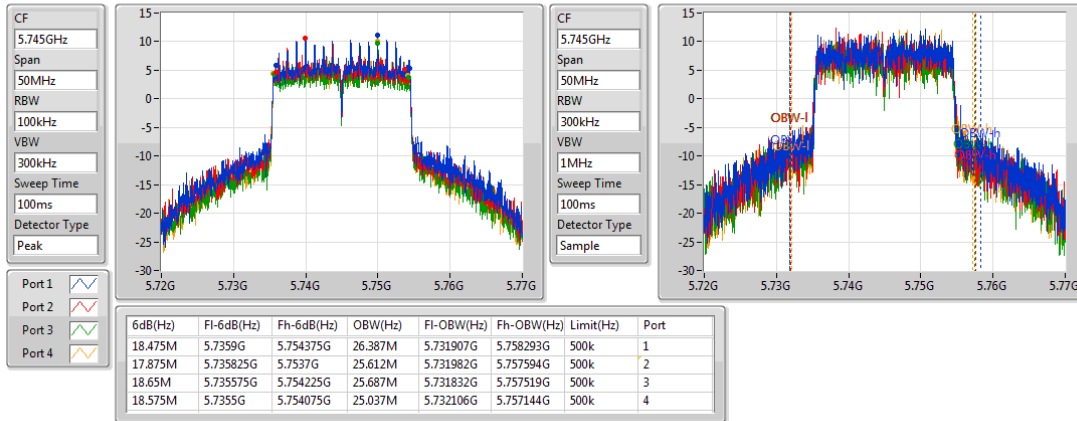


802.11ax HEW20_Nss4,(MCS0)_4TX

EBW

5745MHz

11/02/2019

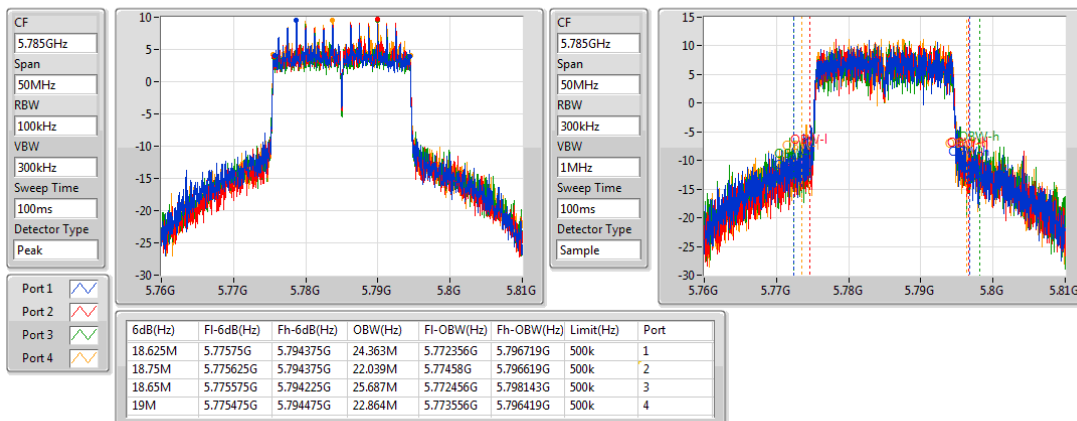


802.11ax HEW20_Nss4,(MCS0)_4TX

EBW

5785MHz

11/02/2019

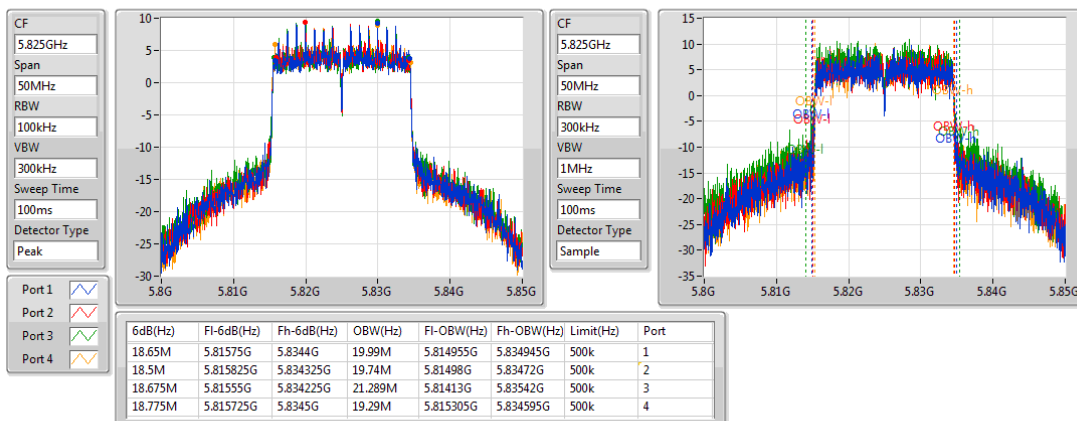


802.11ax HEW20_Nss4,(MCS0)_4TX

EBW

5825MHz

11/02/2019

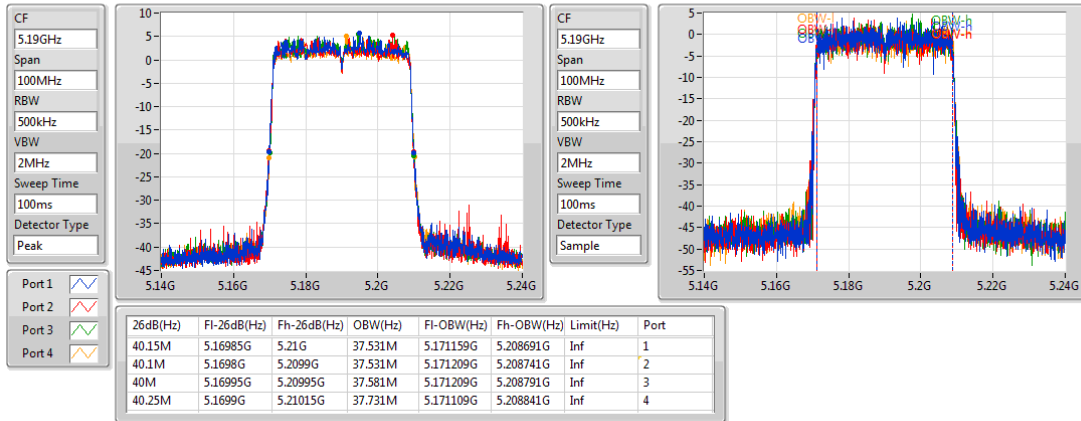


802.11ax HEW40_Nss4,(MCS0)_4TX

EBW

5190MHz

11/02/2019

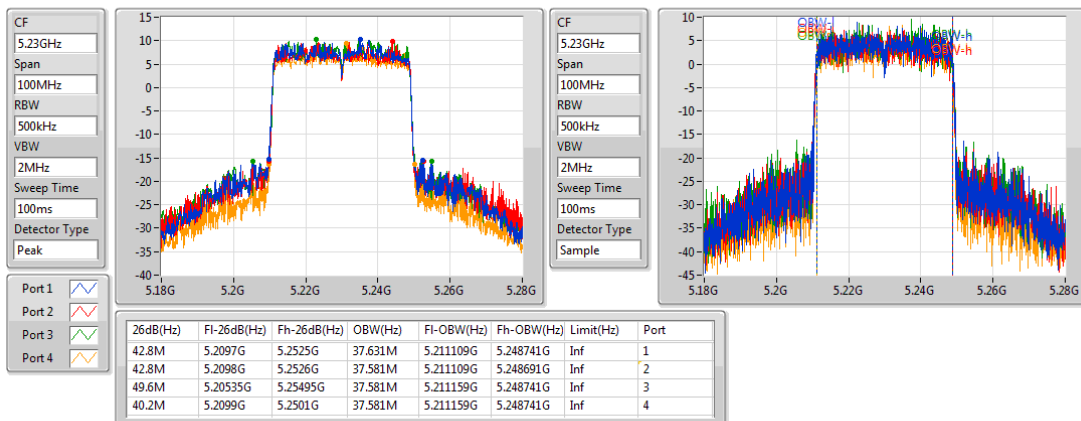


802.11ax HEW40_Nss4,(MCS0)_4TX

EBW

5230MHz

11/02/2019

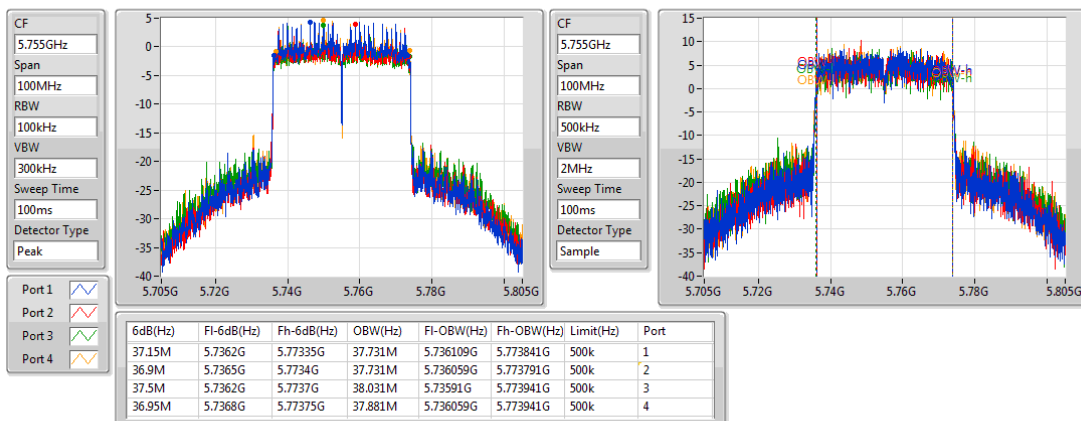


802.11ax HEW40_Nss4,(MCS0)_4TX

EBW

5755MHz

11/02/2019

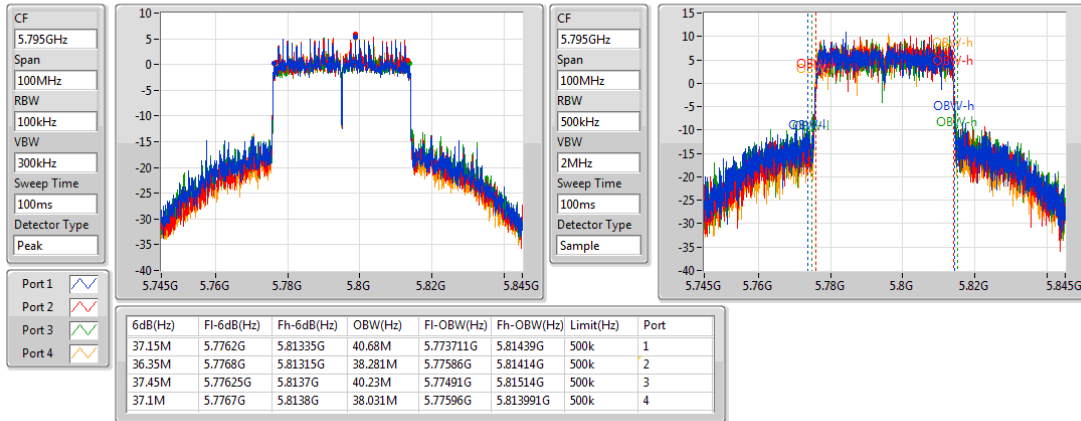


802.11ax HEW40_Nss4,(MCS0)_4TX

EBW

5795MHz

11/02/2019

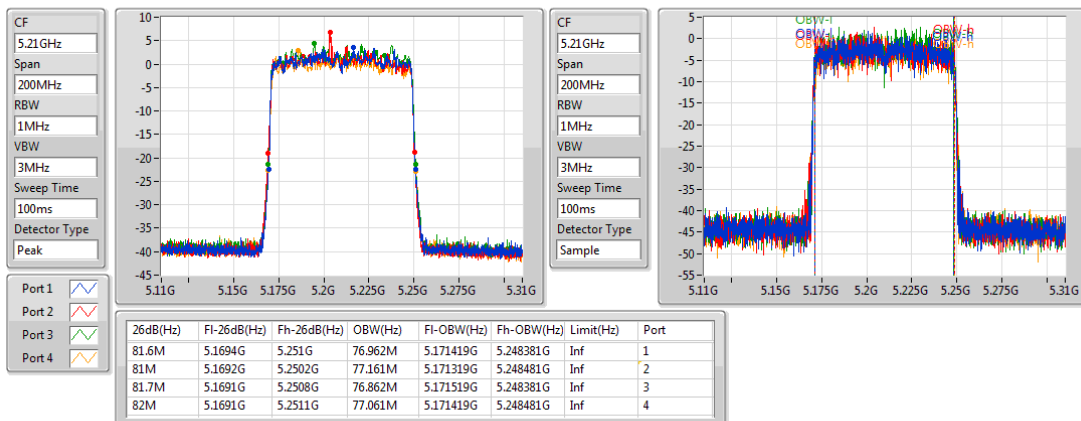


802.11ax HEW80_Nss4,(MCS0)_4TX

EBW

5210MHz

11/02/2019

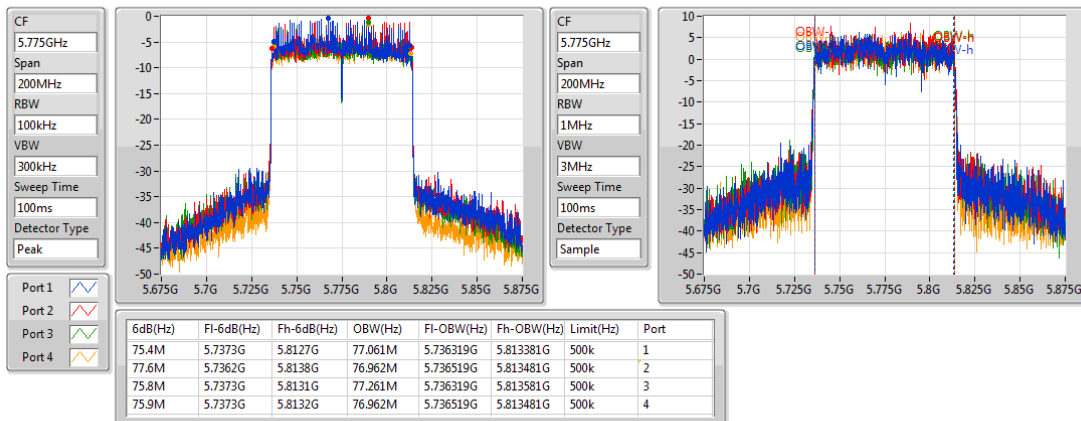


802.11ax HEW80_Nss4,(MCS0)_4TX

EBW

5775MHz

11/02/2019





EBW Result_Radio 1

Appendix B.16

For Outdoor use for 5G Band 1:

Mode 1: (Ant. 5 Panel antenna / 3 dBi)

For Non-beamforming / 1T1S mode

Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.15-5.25GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	21.55M	16.592M	16M6D1D	21.475M	16.567M
802.11ax HEW20_Nss1,(MCS0)_1TX	21.85M	18.966M	19M0D1D	21.725M	18.966M
802.11ax HEW40_Nss1,(MCS0)_1TX	39.95M	37.581M	37M6D1D	39.95M	37.531M
802.11ax HEW80_Nss1,(MCS0)_1TX	81.5M	76.962M	77M0D1D	81.5M	76.962M

Max-N dB = Maximum 6dB down bandwidth for 5.725-5.85GHz band / Maximum 26dB down bandwidth for other band;

Max-OBW = Maximum 99% occupied bandwidth;

Min-N dB = Minimum 6dB down bandwidth for 5.725-5.85GHz band / Maximum 26dB down bandwidth for other band;

Min-OBW = Minimum 99% occupied bandwidth;

Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
802.11a_Nss1,(6Mbps)_1TX	-	-	-	-
5180MHz	Pass	Inf	21.475M	16.592M
5200MHz	Pass	Inf	21.55M	16.567M
5240MHz	Pass	Inf	21.5M	16.592M
802.11ax HEW20_Nss1,(MCS0)_1TX	-	-	-	-
5180MHz	Pass	Inf	21.85M	18.966M
5200MHz	Pass	Inf	21.725M	18.966M
5240MHz	Pass	Inf	21.725M	18.966M
802.11ax HEW40_Nss1,(MCS0)_1TX	-	-	-	-
5190MHz	Pass	Inf	39.95M	37.581M
5230MHz	Pass	Inf	39.95M	37.531M
802.11ax HEW80_Nss1,(MCS0)_1TX	-	-	-	-
5210MHz	Pass	Inf	81.5M	76.962M

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

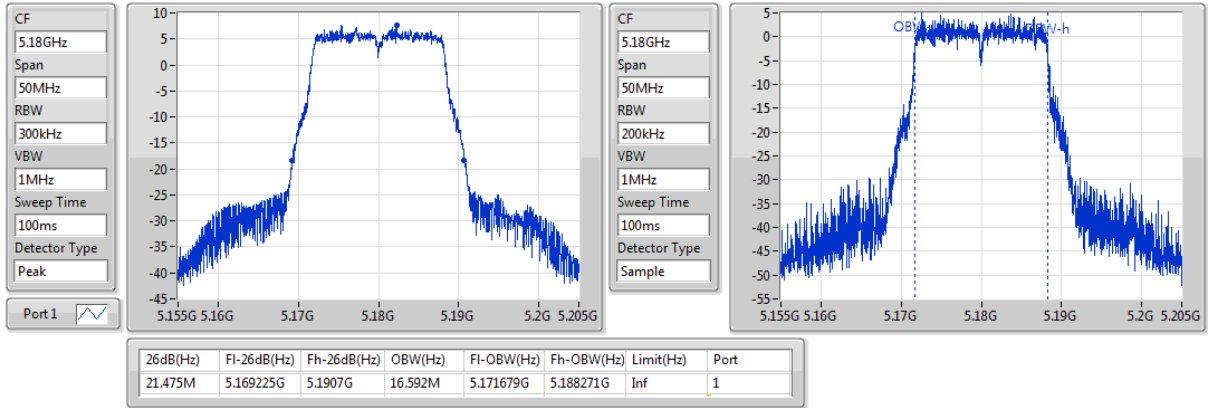
Port X-OBW = Port X 99% occupied bandwidth;

802.11a_Nss1,(6Mbps)_1TX

EBW

5180MHz

02/03/2019

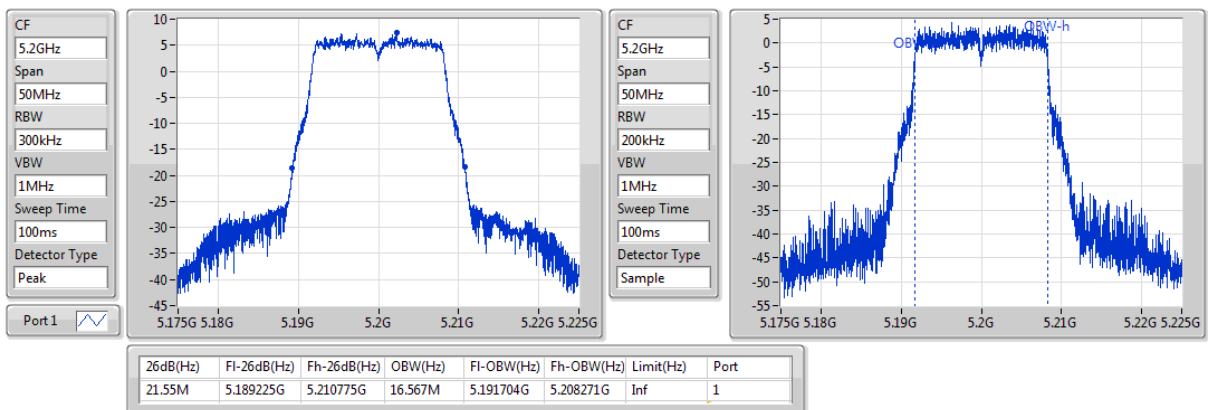


802.11a_Nss1,(6Mbps)_1TX

EBW

5200MHz

02/03/2019

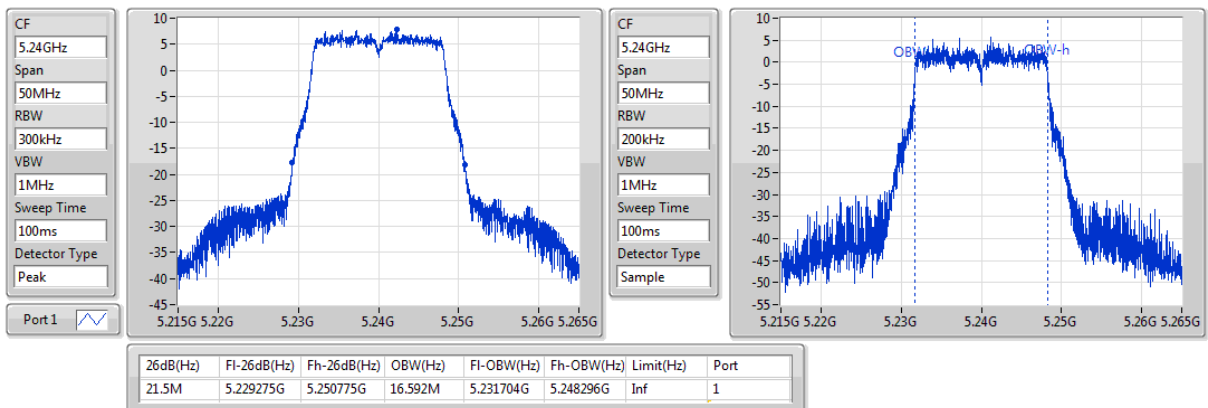


802.11a_Nss1,(6Mbps)_1TX

EBW

5240MHz

02/03/2019

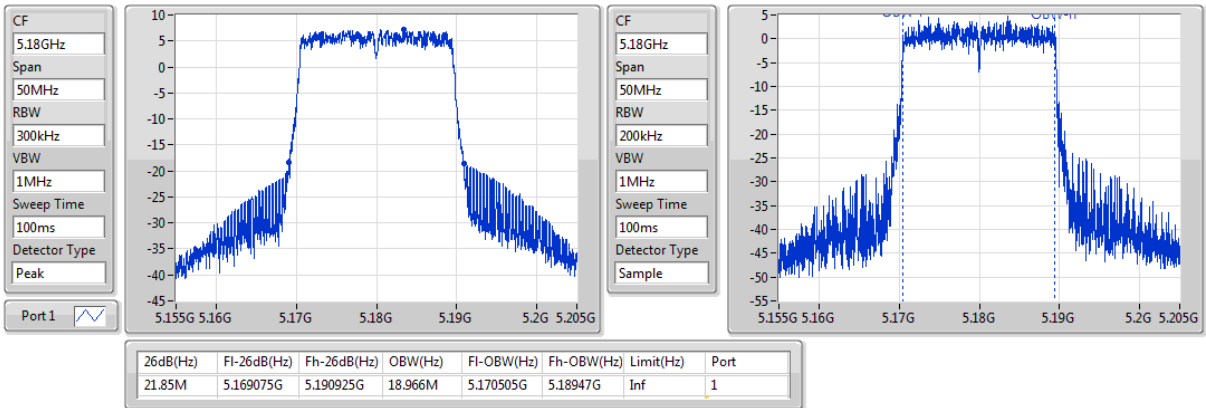


802.11ax HEW20_Nss1,(MCS0)_1TX

EBW

5180MHz

02/03/2019

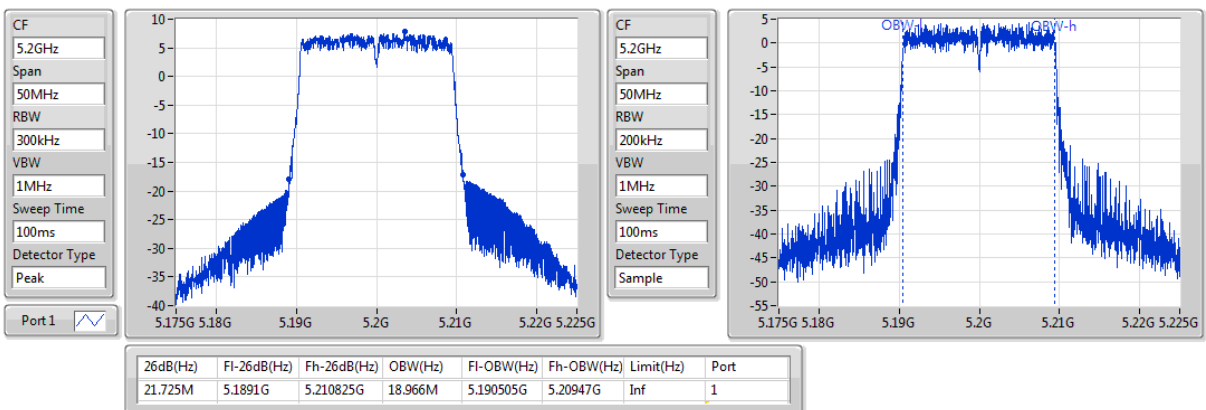


802.11ax HEW20_Nss1,(MCS0)_1TX

EBW

5200MHz

02/03/2019

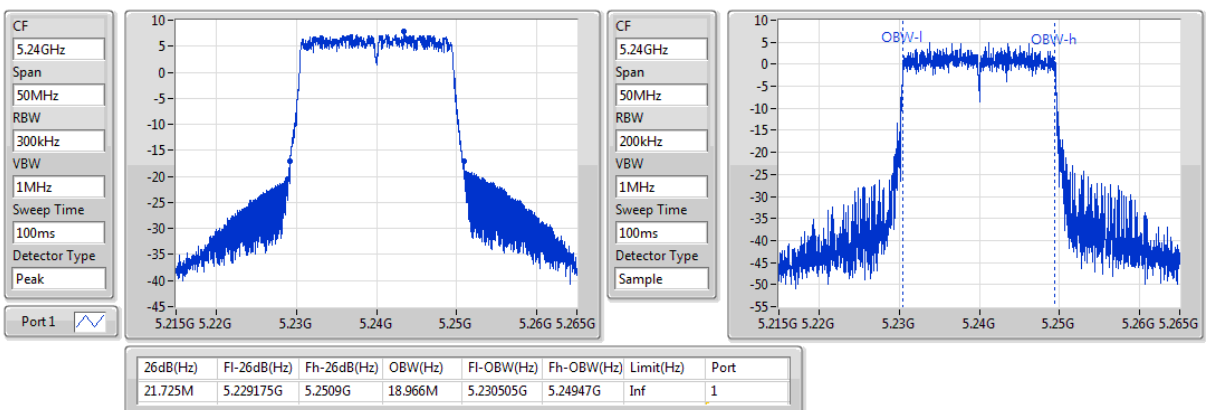


802.11ax HEW20_Nss1,(MCS0)_1TX

EBW

5240MHz

02/03/2019

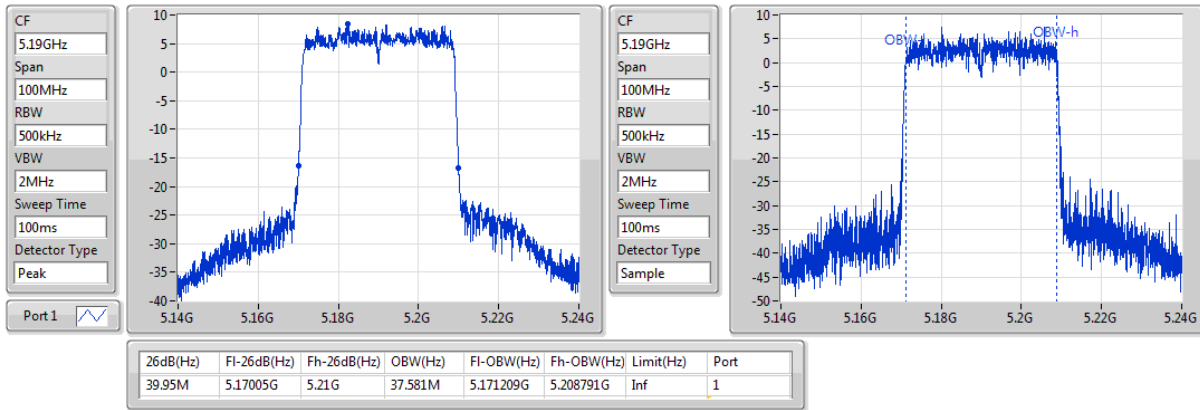


802.11ax HEW40_Nss1,(MCS0)_1TX

EBW

5190MHz

02/03/2019

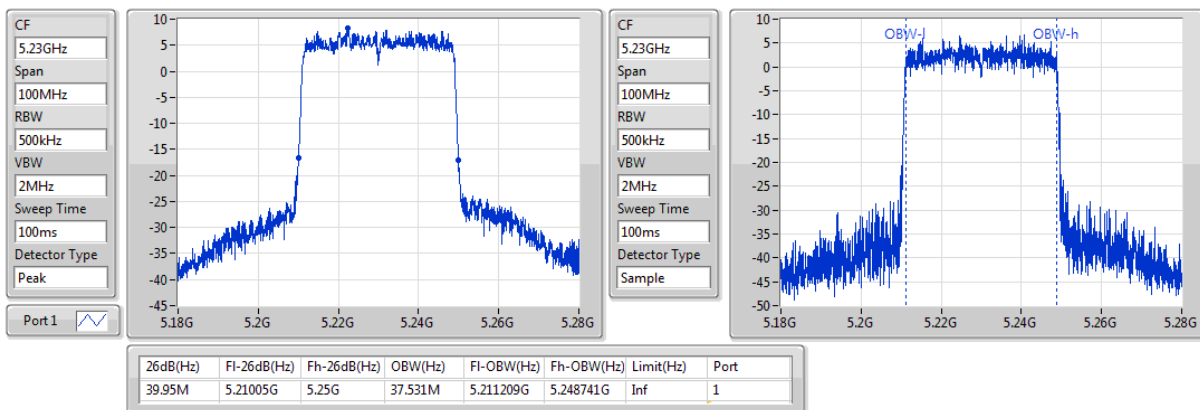


802.11ax HEW40_Nss1,(MCS0)_1TX

EBW

5230MHz

02/03/2019

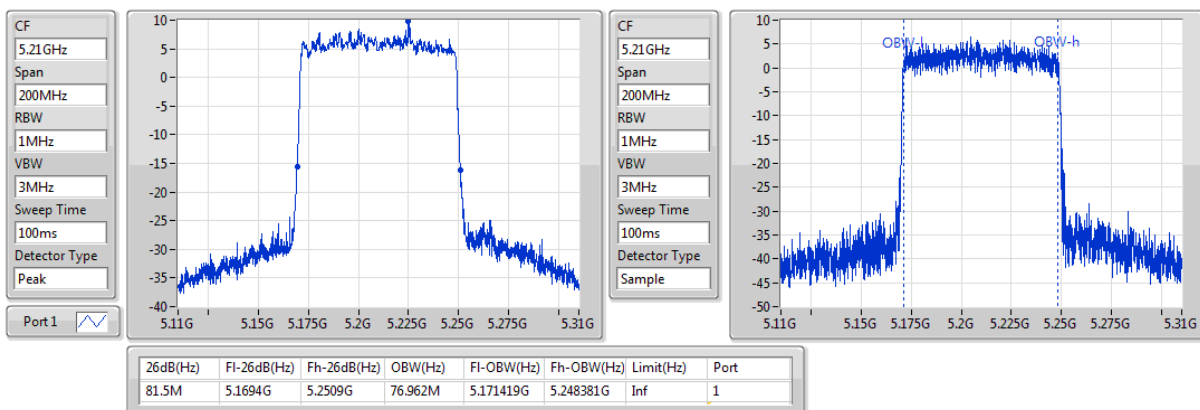


802.11ax HEW80_Nss1,(MCS0)_1TX

EBW

5210MHz

02/03/2019





EBW Result_Radio 1

Appendix B.17

For Non-beamforming / 2T2S mode Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.15-5.25GHz	-	-	-	-	-
802.11ax HEW20_Nss2,(MCS0)_2TX	22M	18.966M	19M0D1D	21.4M	18.916M
802.11ax HEW40_Nss2,(MCS0)_2TX	40M	37.581M	37M6D1D	39.95M	37.481M
802.11ax HEW80_Nss2,(MCS0)_2TX	81.5M	77.061M	77M1D1D	81.4M	76.762M

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;



EBW Result_Radio 1

Appendix B.17

Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
802.11ax HEW20_Nss2,(MCS0)_2TX	-	-	-	-	-	-
5180MHz	Pass	Inf	22M	18.966M	21.5M	18.966M
5200MHz	Pass	Inf	21.95M	18.916M	21.4M	18.941M
5240MHz	Pass	Inf	21.975M	18.916M	21.5M	18.941M
802.11ax HEW40_Nss2,(MCS0)_2TX	-	-	-	-	-	-
5190MHz	Pass	Inf	39.95M	37.481M	39.95M	37.581M
5230MHz	Pass	Inf	39.95M	37.581M	40M	37.531M
802.11ax HEW80_Nss2,(MCS0)_2TX	-	-	-	-	-	-
5210MHz	Pass	Inf	81.4M	77.061M	81.5M	76.762M

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

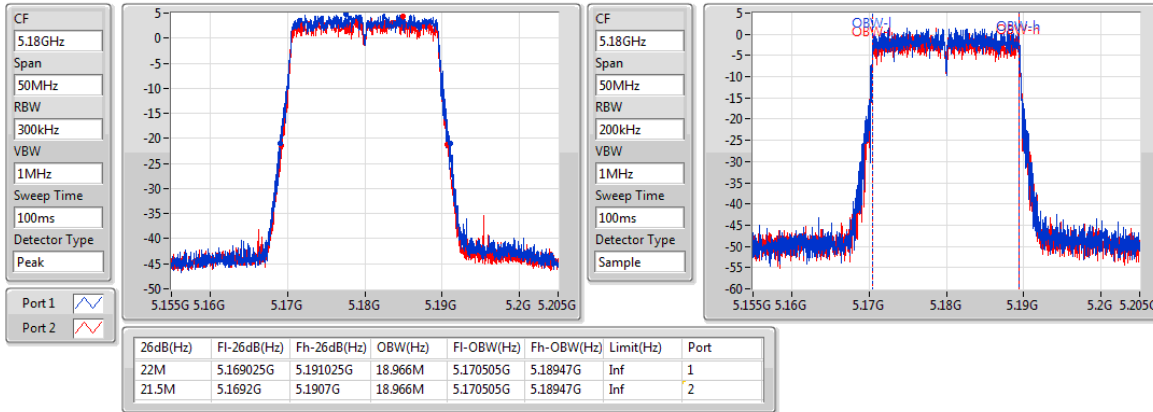
Port X-OBW = Port X 99% occupied bandwidth;

802.11ax HEW20_Nss2,(MCS0)_2TX

EBW

5180MHz

02/03/2019

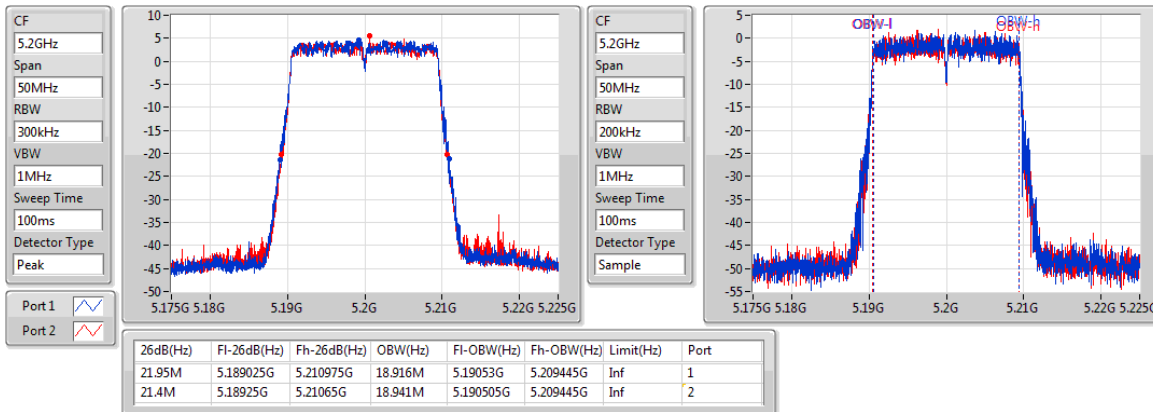


802.11ax HEW20_Nss2,(MCS0)_2TX

EBW

5200MHz

02/03/2019

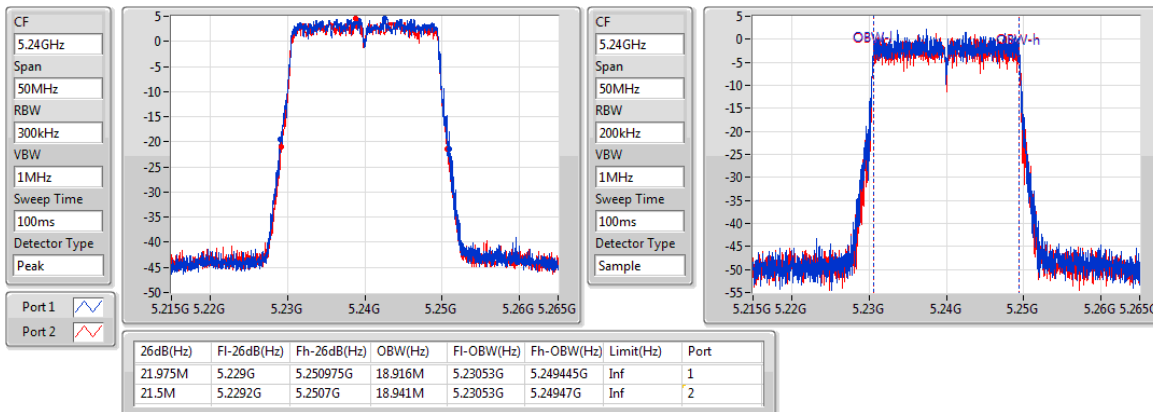


802.11ax HEW20_Nss2,(MCS0)_2TX

EBW

5240MHz

02/03/2019

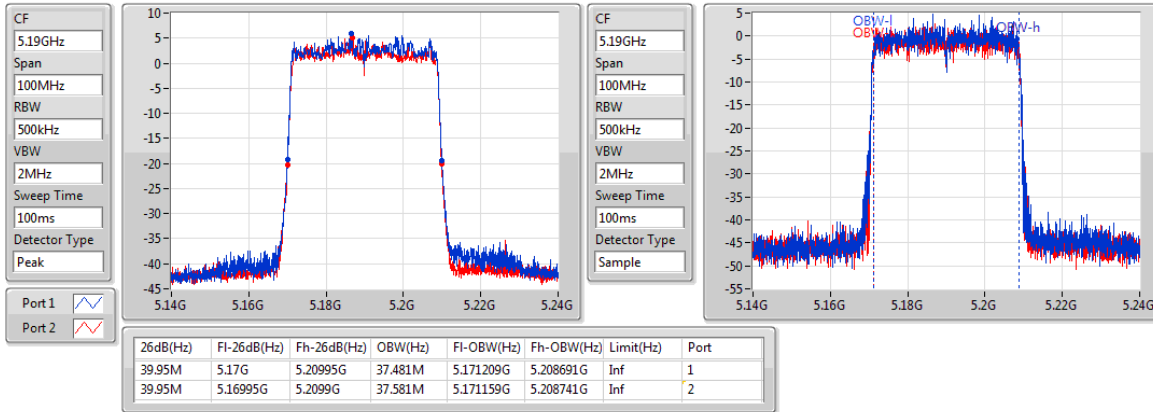


802.11ax HEW40_Nss2,(MCS0)_2TX

EBW

5190MHz

02/03/2019

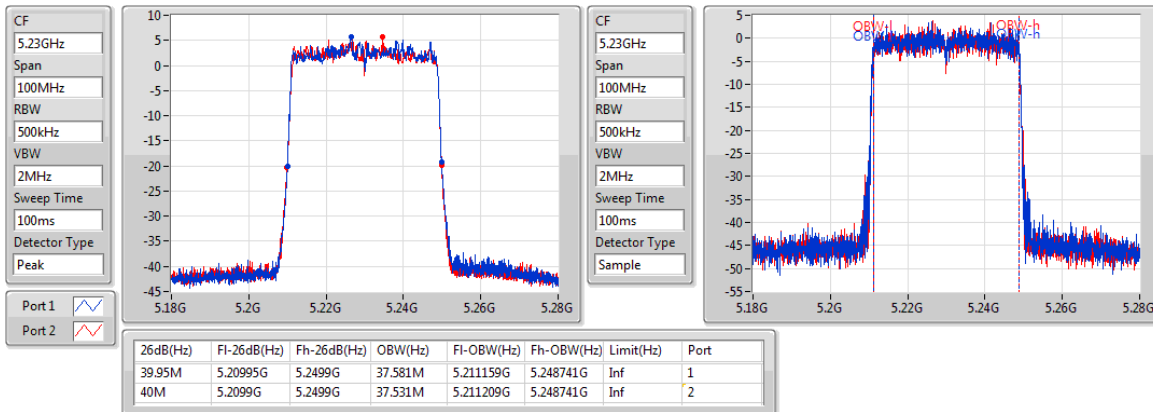


802.11ax HEW40_Nss2,(MCS0)_2TX

EBW

5230MHz

02/03/2019

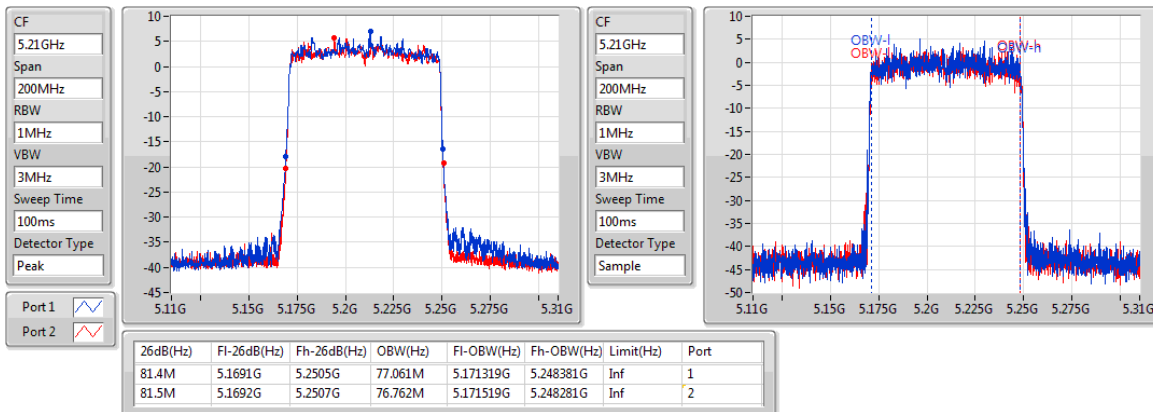


802.11ax HEW80_Nss2,(MCS0)_2TX

EBW

5210MHz

02/03/2019



**For Non-beamforming / 4T1S mode
Summary**

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.15-5.25GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	21.675M	16.617M	16M6D1D	21.425M	16.517M
802.11ax HEW20_Nss1,(MCS0)_4TX	42.725M	19.49M	19M5D1D	21.45M	18.941M
802.11ax HEW40_Nss1,(MCS0)_4TX	40.15M	37.631M	37M6D1D	39.9M	37.431M
802.11ax HEW80_Nss1,(MCS0)_4TX	81.4M	77.161M	77M2D1D	81M	76.962M

Max-N dB = Maximum 6dB down bandwidth for 5.725-5.85GHz band / Maximum 26dB down bandwidth for other band;

Max-OBW = Maximum 99% occupied bandwidth;

Min-N dB = Minimum 6dB down bandwidth for 5.725-5.85GHz band / Maximum 26dB down bandwidth for other band;

Min-OBW = Minimum 99% occupied bandwidth;

Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)	Port 3-N dB (Hz)	Port 3-OBW (Hz)	Port 4-N dB (Hz)	Port 4-OBW (Hz)
802.11a_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	Inf	21.525M	16.592M	21.525M	16.567M	21.675M	16.592M	21.45M	16.567M
5200MHz	Pass	Inf	21.5M	16.567M	21.55M	16.592M	21.6M	16.592M	21.575M	16.542M
5240MHz	Pass	Inf	21.5M	16.617M	21.55M	16.592M	21.625M	16.517M	21.425M	16.567M
802.11ax HEW20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	Inf	21.7M	18.991M	21.675M	18.966M	21.975M	18.966M	21.475M	18.941M
5200MHz	Pass	Inf	21.725M	18.941M	21.6M	18.941M	22M	18.966M	21.45M	18.966M
5240MHz	Pass	Inf	41.075M	19.24M	41.1M	19.44M	42.725M	19.49M	40.975M	19.09M
802.11ax HEW40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	Inf	39.9M	37.631M	40M	37.581M	40M	37.431M	40.1M	37.531M
5230MHz	Pass	Inf	39.9M	37.531M	40.05M	37.581M	40.1M	37.581M	40.15M	37.531M
802.11ax HEW80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	Inf	81.4M	77.061M	81M	76.962M	81.4M	77.161M	81.1M	76.962M

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

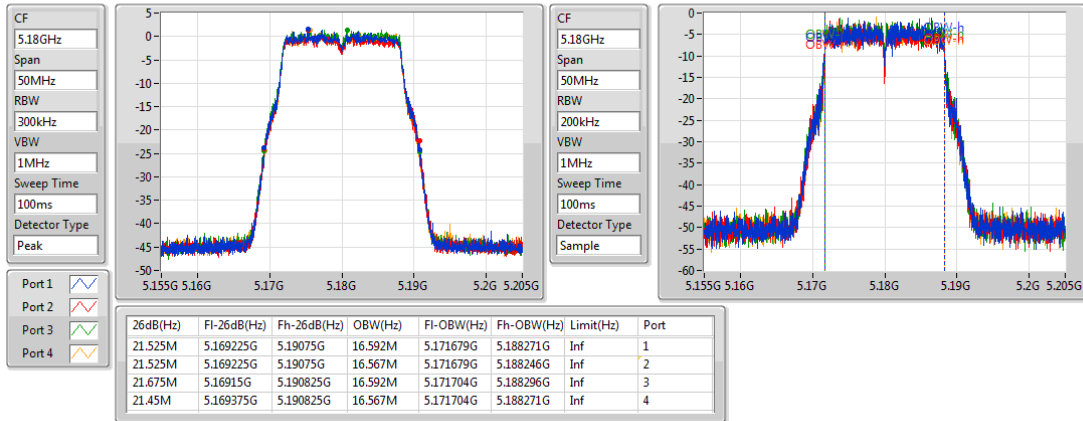
Port X-OBW = Port X 99% occupied bandwidth;

802.11a_Nss1,(6Mbps)_4TX

EBW

5180MHz

02/03/2019

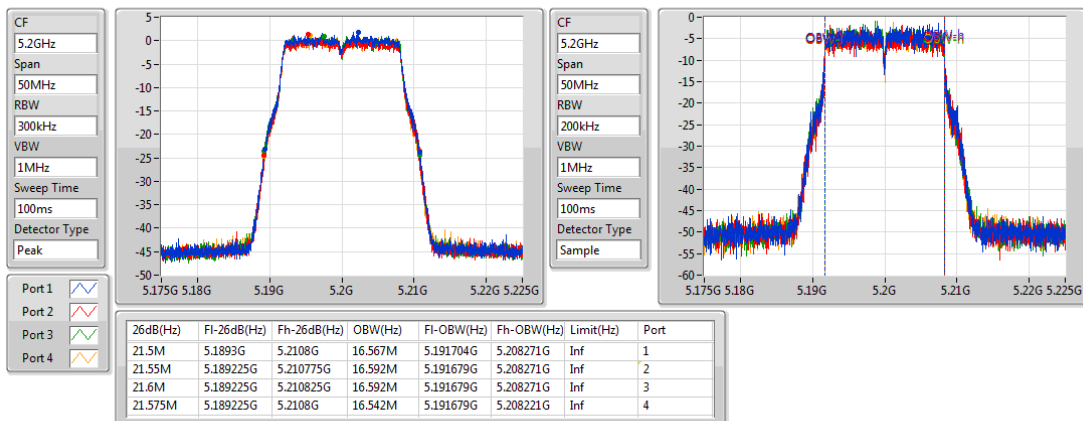


802.11a_Nss1,(6Mbps)_4TX

EBW

5200MHz

02/03/2019

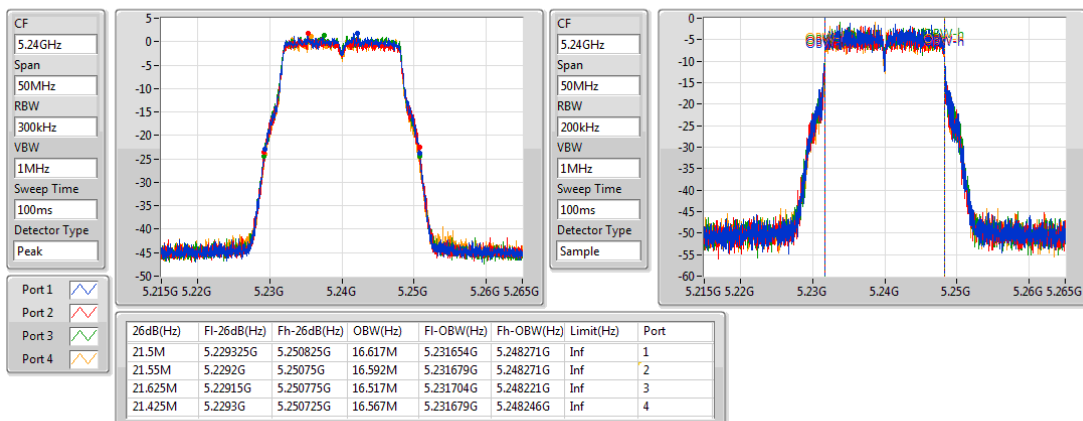


802.11a_Nss1,(6Mbps)_4TX

EBW

5240MHz

02/03/2019

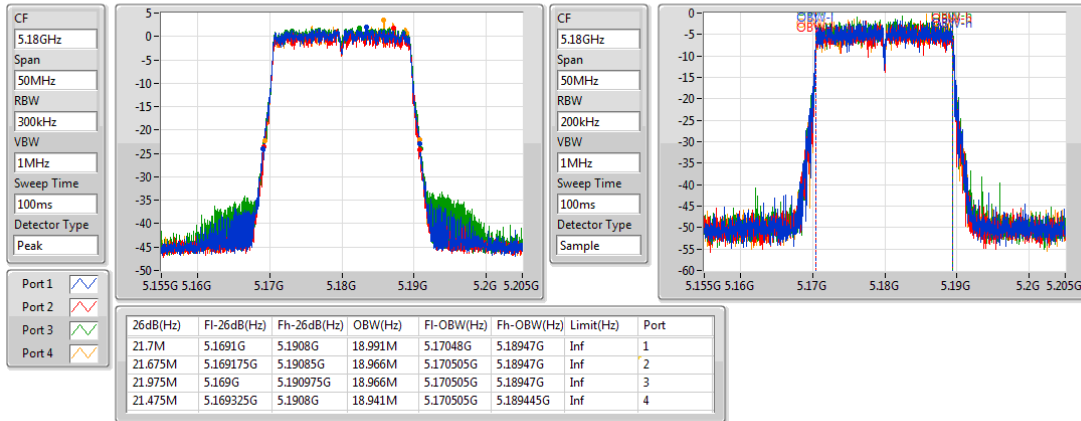


802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

5180MHz

02/03/2019

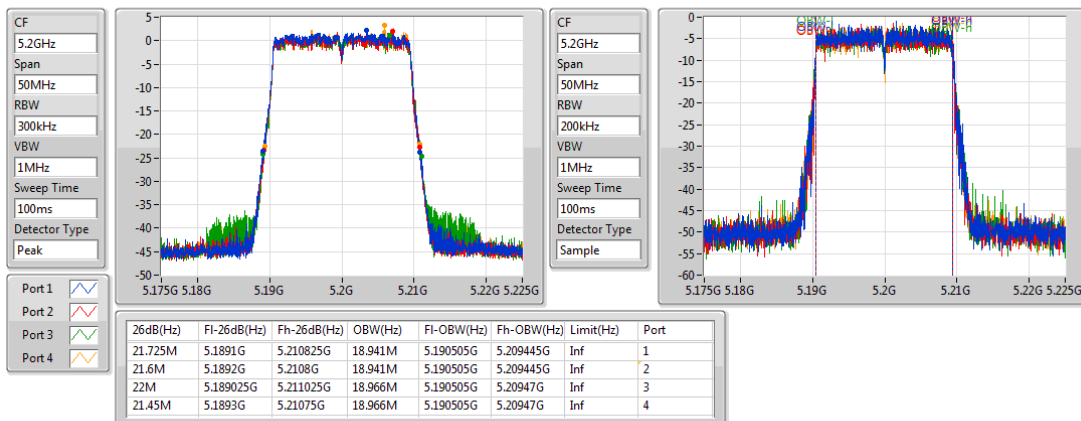


802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

5200MHz

02/03/2019

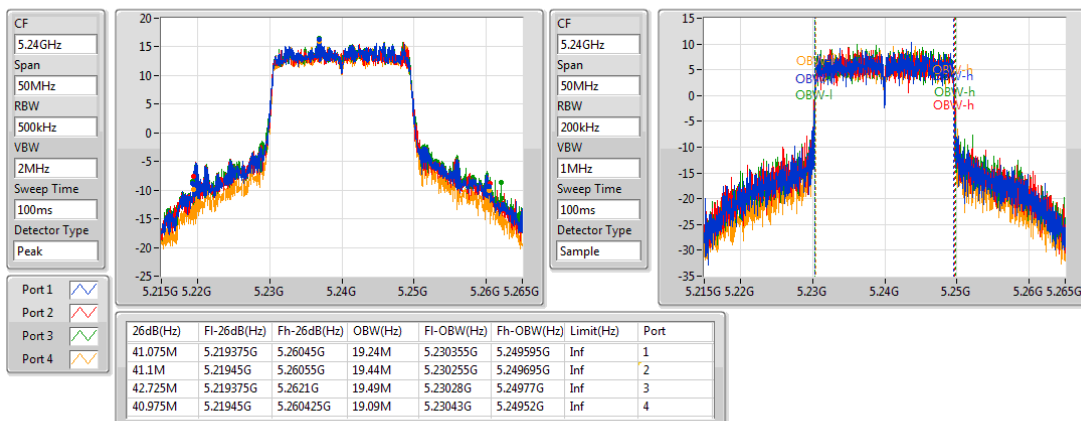


802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

5240MHz

19/02/2019

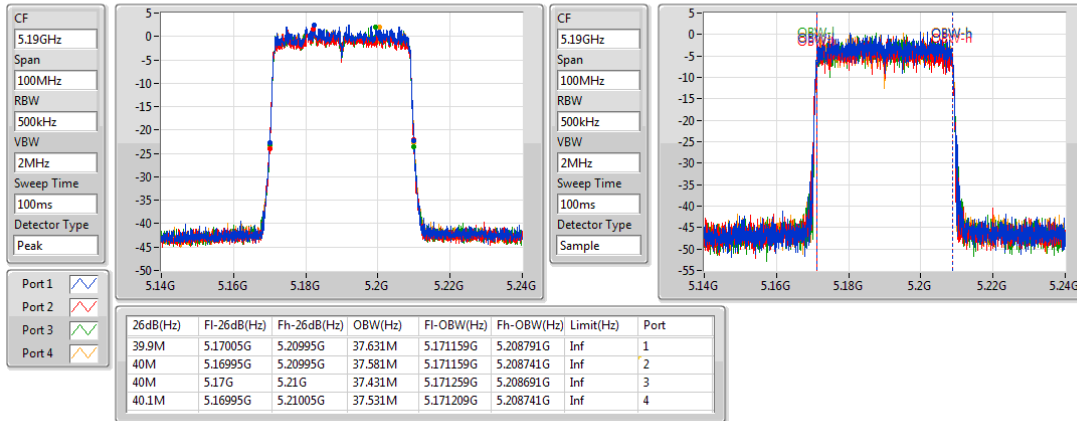


802.11ax HEW40_Nss1,(MCS0)_4TX

EBW

5190MHz

02/03/2019

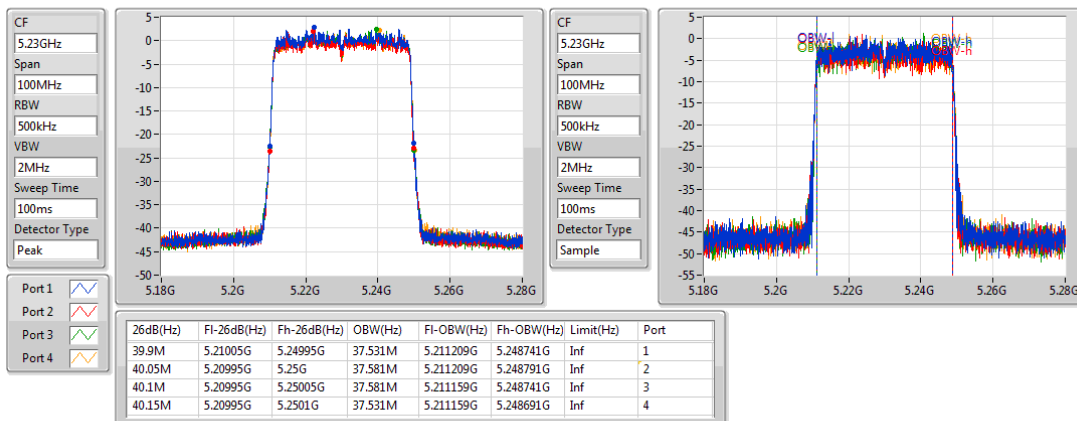


802.11ax HEW40_Nss1,(MCS0)_4TX

EBW

5230MHz

02/03/2019

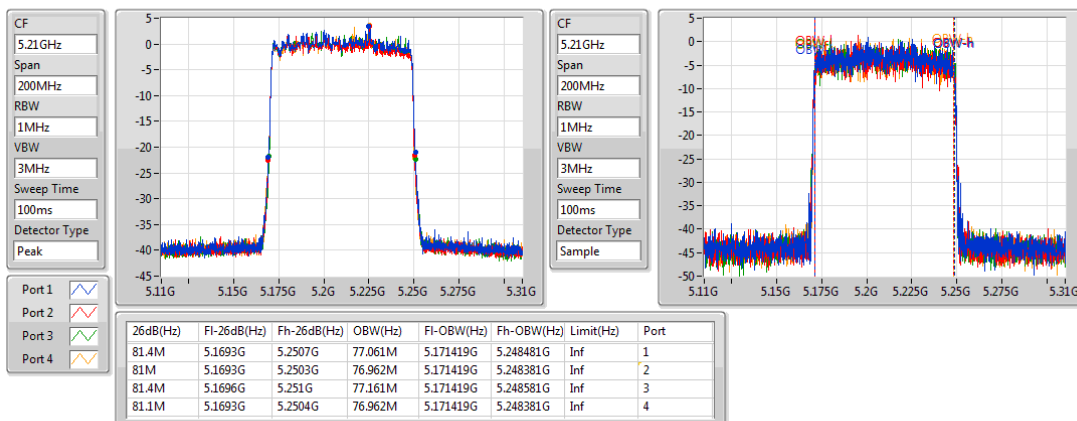


802.11ax HEW80_Nss1,(MCS0)_4TX

EBW

5210MHz

02/03/2019





EBW Result_Radio 1

Appendix B.19

For Beamforming / 4T1S mode Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.15-5.25GHz	-	-	-	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	21.875M	18.991M	19M0D1D	21.45M	18.916M
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	40.2M	37.631M	37M6D1D	39.95M	37.481M
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	81.6M	77.261M	77M3D1D	80.9M	76.962M

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)
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	Inf	21.775M	18.941M	21.65M	18.991M	21.775M	18.966M	21.525M	18.966M
5200MHz	Pass	Inf	21.75M	18.966M	21.525M	18.941M	21.875M	18.966M	21.475M	18.916M
5240MHz	Pass	Inf	21.8M	18.966M	21.75M	18.966M	21.775M	18.941M	21.45M	18.991M
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	Inf	39.95M	37.531M	40.1M	37.631M	40.2M	37.531M	40.05M	37.481M
5230MHz	Pass	Inf	40.1M	37.581M	40.1M	37.581M	40.1M	37.531M	40.15M	37.631M
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	Inf	81.6M	77.061M	80.9M	77.261M	81M	76.962M	81.3M	77.061M

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

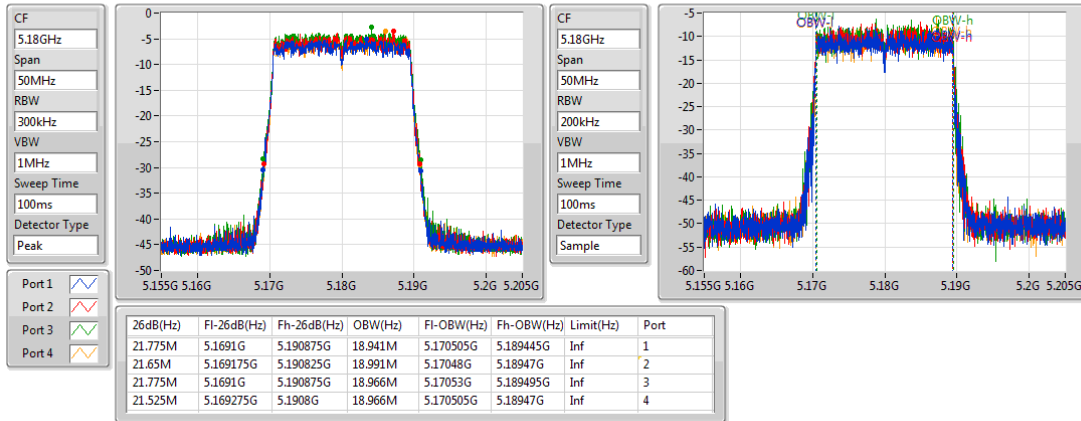
Port X-OBW = Port X 99% occupied bandwidth;

802.11ax HEW20-BF_Nss1,(MCS0)_4TX

EBW

5180MHz

03/03/2019

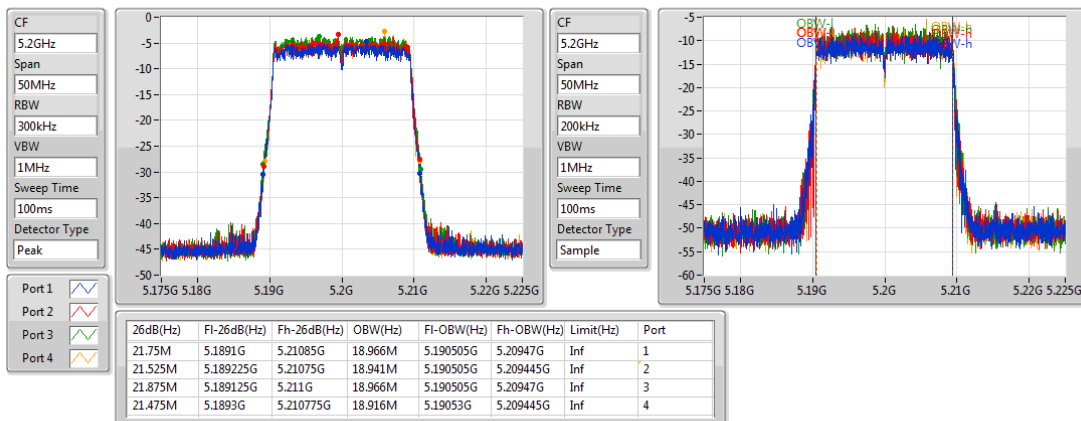


802.11ax HEW20-BF_Nss1,(MCS0)_4TX

EBW

5200MHz

03/03/2019

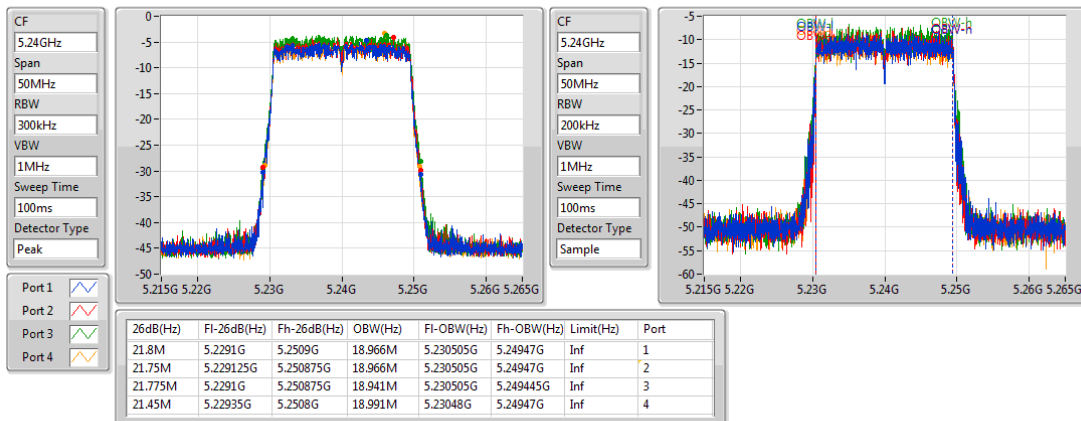


802.11ax HEW20-BF_Nss1,(MCS0)_4TX

EBW

5240MHz

03/03/2019

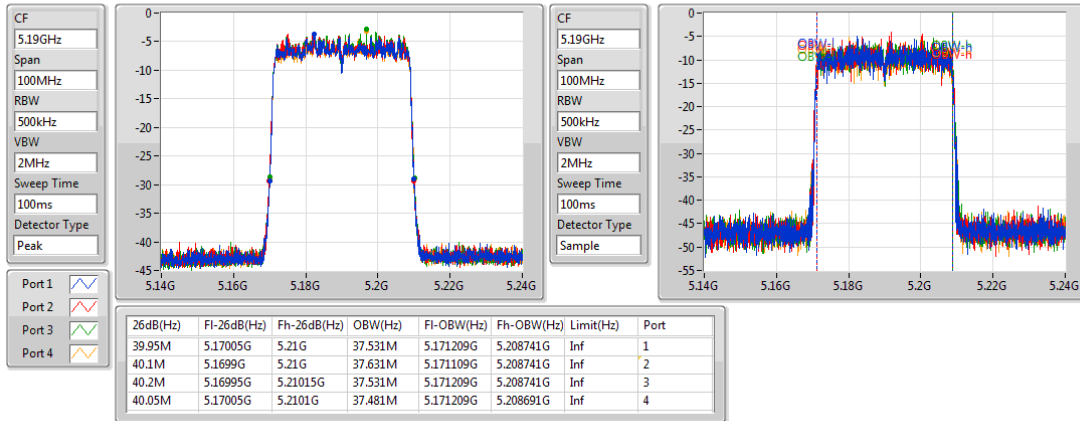


802.11ax HEW40-BF_Nss1,(MCS0)_4TX

EBW

5190MHz

03/03/2019

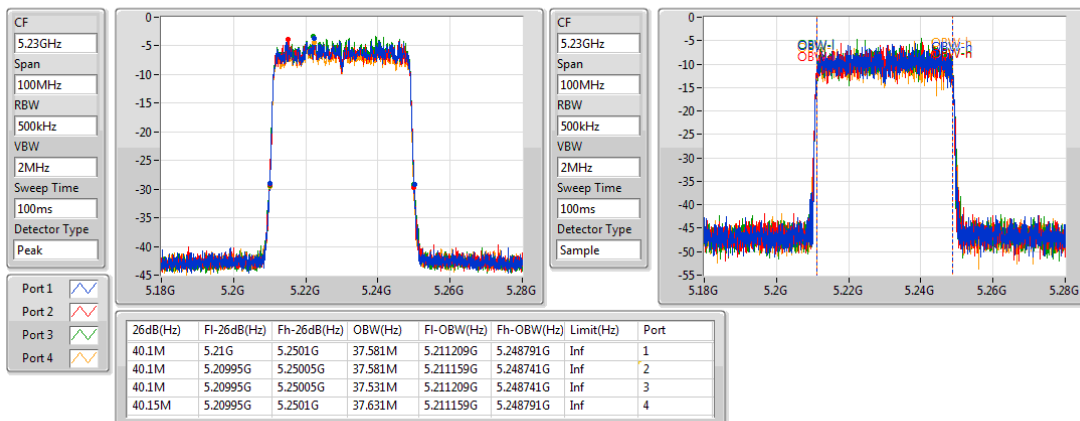


802.11ax HEW40-BF_Nss1,(MCS0)_4TX

EBW

5230MHz

03/03/2019

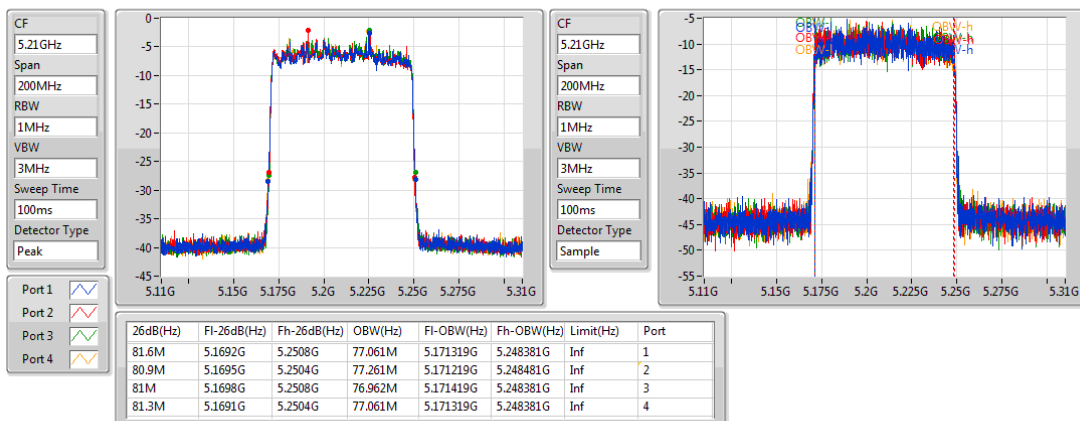


802.11ax HEW80-BF_Nss1,(MCS0)_4TX

EBW

5210MHz

03/03/2019





EBW Result_Radio 1

Appendix B.20

For Non-beamforming / 4T4S mode Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.15-5.25GHz	-	-	-	-	-
802.11ax HEW20_Nss4,(MCS0)_4TX	21.925M	18.991M	19M0D1D	21.275M	18.891M
802.11ax HEW40_Nss4,(MCS0)_4TX	40.25M	37.631M	37M6D1D	40.05M	37.481M
802.11ax HEW80_Nss4,(MCS0)_4TX	81.8M	77.161M	77M2D1D	81.1M	76.862M

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;



EBW Result_Radio 1

Appendix B.20

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)
802.11ax HEW20_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	Inf	21.85M	18.966M	21.65M	18.941M	21.8M	18.966M	21.275M	18.941M
5200MHz	Pass	Inf	21.725M	18.916M	21.75M	18.991M	21.75M	18.891M	21.325M	18.966M
5240MHz	Pass	Inf	21.825M	18.941M	21.725M	18.966M	21.925M	18.941M	21.4M	18.941M
802.11ax HEW40_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	Inf	40.25M	37.581M	40.15M	37.481M	40.1M	37.531M	40.25M	37.631M
5230MHz	Pass	Inf	40.2M	37.581M	40.1M	37.531M	40.05M	37.531M	40.25M	37.581M
802.11ax HEW80_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	Inf	81.4M	76.862M	81.1M	77.061M	81.8M	76.962M	81.7M	77.161M

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

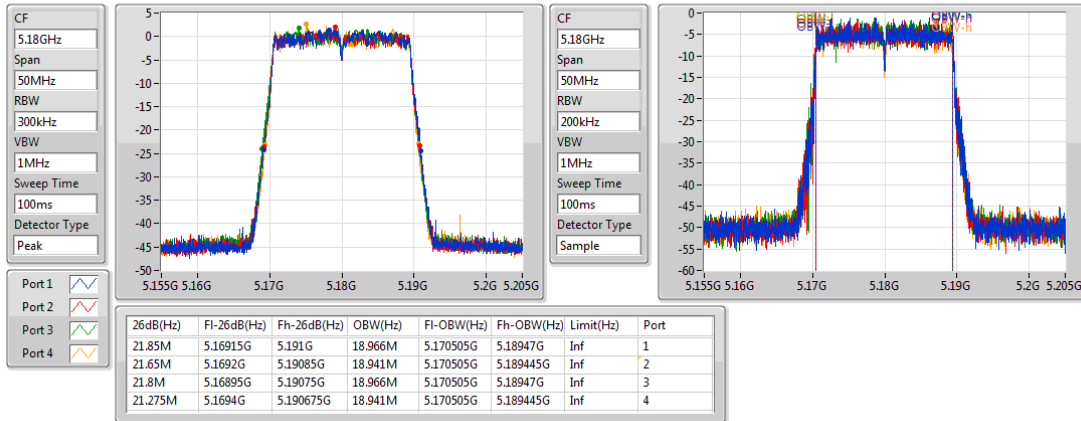
Port X-OBW = Port X 99% occupied bandwidth;

802.11ax HEW20_Nss4,(MCS0)_4TX

EBW

5180MHz

02/03/2019

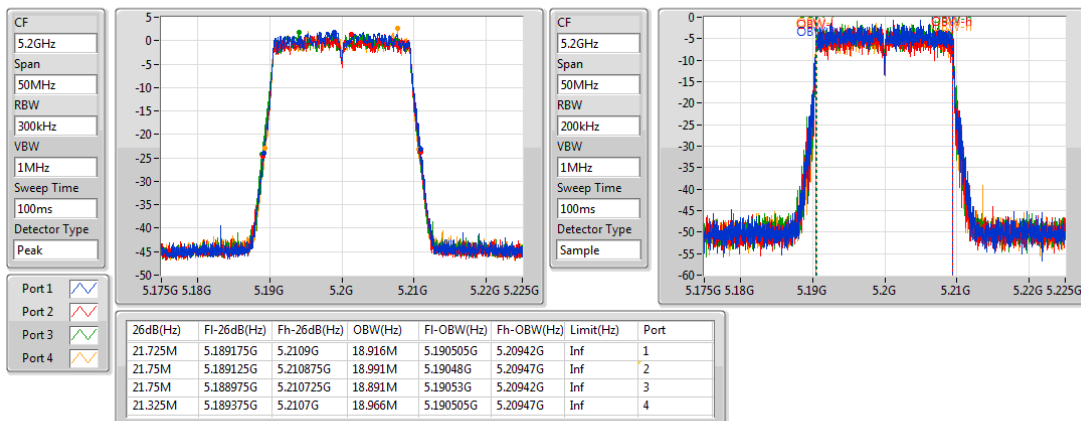


802.11ax HEW20_Nss4,(MCS0)_4TX

EBW

5200MHz

02/03/2019

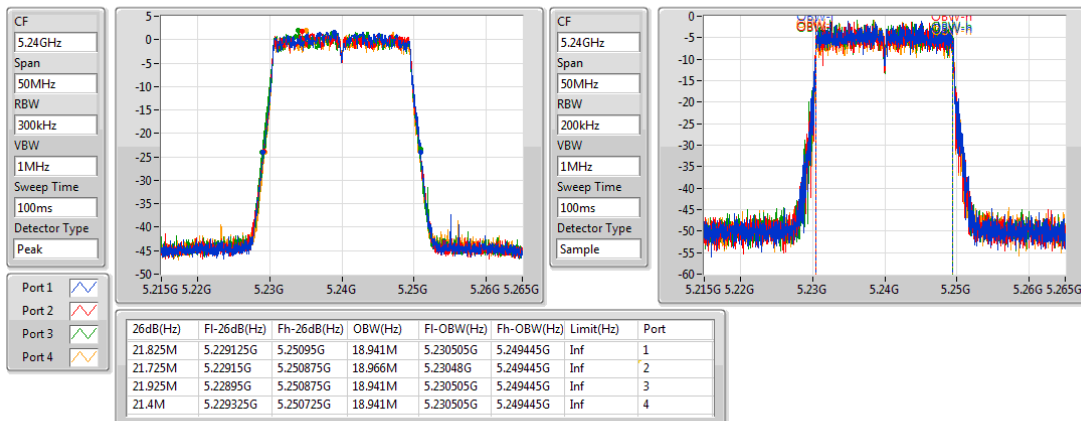


802.11ax HEW20_Nss4,(MCS0)_4TX

EBW

5240MHz

02/03/2019



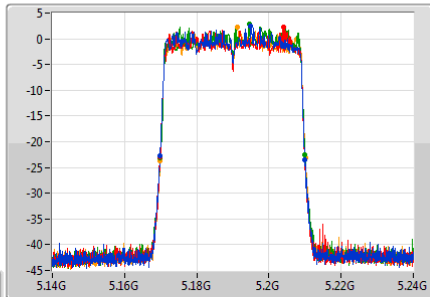
802.11ax HEW40_Nss4,(MCS0)_4TX

EBW

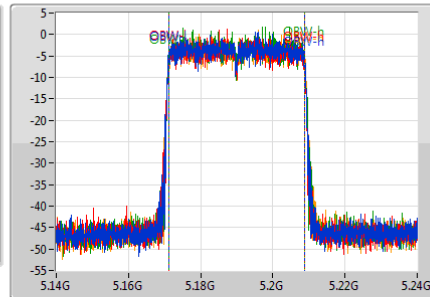
5190MHz

02/03/2019

CF
5.19GHz
Span
100MHz
RBW
500kHz
VBW
2MHz
Sweep Time
100ms
Detector Type
Peak



CF
5.19GHz
Span
100MHz
RBW
500kHz
VBW
2MHz
Sweep Time
100ms
Detector Type
Sample



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	37.581M	5.171159G	5.208741G	Inf	1
40.15M	5.16975G	5.2099G	37.481M	5.171209G	5.208691G	Inf	2
40.1M	5.1699G	5.21G	37.531M	5.171259G	5.208791G	Inf	3
40.25M	5.1699G	5.21015G	37.631M	5.171209G	5.208841G	Inf	4

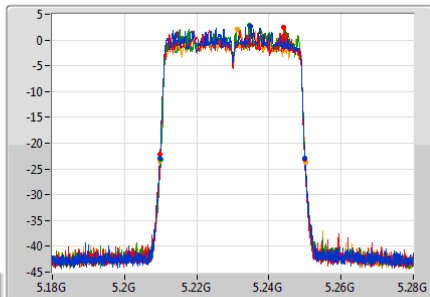
802.11ax HEW40_Nss4,(MCS0)_4TX

EBW

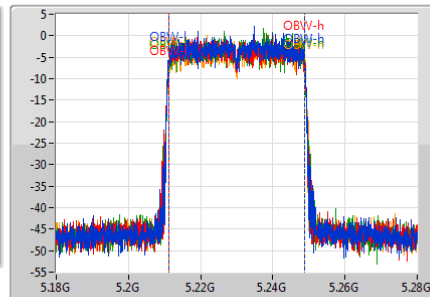
5230MHz

02/03/2019

CF
5.23GHz
Span
100MHz
RBW
500kHz
VBW
2MHz
Sweep Time
100ms
Detector Type
Peak



CF
5.23GHz
Span
100MHz
RBW
500kHz
VBW
2MHz
Sweep Time
100ms
Detector Type
Sample



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
40.2M	5.2098G	5.25G	37.581M	5.211159G	5.248741G	Inf	1
40.1M	5.2098G	5.2499G	37.531M	5.211259G	5.248791G	Inf	2
40.05M	5.20995G	5.25G	37.531M	5.211209G	5.248741G	Inf	3
40.25M	5.2099G	5.25015G	37.581M	5.211209G	5.248791G	Inf	4

802.11ax HEW80_Nss4,(MCS0)_4TX

EBW

5210MHz

02/03/2019

CF
5.21GHz
Span
200MHz
RBW
1MHz
VBW
3MHz
Sweep Time
100ms
Detector Type
Peak



CF
5.21GHz
Span
200MHz
RBW
1MHz
VBW
3MHz
Sweep Time
100ms
Detector Type
Sample



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
81.4M	5.1695G	5.2509G	76.862M	5.171519G	5.248381G	Inf	1
81.1M	5.1693G	5.2504G	77.061M	5.171219G	5.248281G	Inf	2
81.8M	5.1691G	5.2509G	76.962M	5.171419G	5.248381G	Inf	3
81.7M	5.1693G	5.251G	77.161M	5.171419G	5.248581G	Inf	4

Mode 2: (Ant. 6 Omni antenna / 6 dBi)
For Non-beamforming / 1T1S mode
Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.15-5.25GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	43.6M	19.515M	19M5D1D	21.975M	16.567M
802.11ax HEW20_Nss1,(MCS0)_1TX	41.525M	19.34M	19M3D1D	24.3M	18.991M
802.11ax HEW40_Nss1,(MCS0)_1TX	63.05M	37.731M	37M7D1D	39.85M	37.631M
802.11ax HEW80_Nss1,(MCS0)_1TX	81.4M	77.061M	77M1D1D	81.4M	77.061M

Max-N dB = Maximum 6dB down bandwidth for 5.725-5.85GHz band / Maximum 26dB down bandwidth for other band;

Max-OBW = Maximum 99% occupied bandwidth;

Min-N dB = Minimum 6dB down bandwidth for 5.725-5.85GHz band / Maximum 26dB down bandwidth for other band;

Min-OBW = Minimum 99% occupied bandwidth;

Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
802.11a_Nss1,(6Mbps)_1TX	-	-	-	-
5180MHz	Pass	Inf	21.975M	16.567M
5200MHz	Pass	Inf	43.45M	19.09M
5240MHz	Pass	Inf	43.6M	19.515M
802.11ax HEW20_Nss1,(MCS0)_1TX	-	-	-	-
5180MHz	Pass	Inf	24.3M	18.991M
5200MHz	Pass	Inf	41.025M	19.315M
5240MHz	Pass	Inf	41.525M	19.34M
802.11ax HEW40_Nss1,(MCS0)_1TX	-	-	-	-
5190MHz	Pass	Inf	39.85M	37.631M
5230MHz	Pass	Inf	63.05M	37.731M
802.11ax HEW80_Nss1,(MCS0)_1TX	-	-	-	-
5210MHz	Pass	Inf	81.4M	77.061M

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

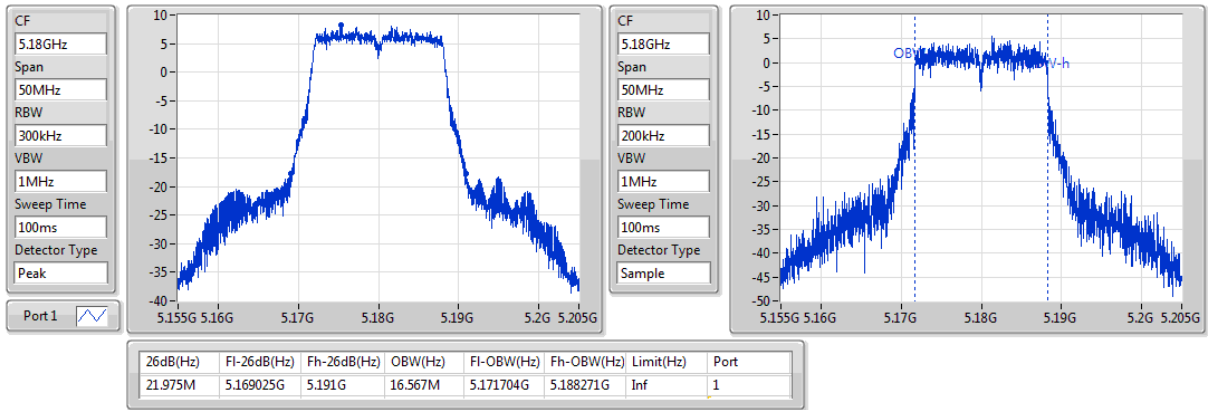
Port X-OBW = Port X 99% occupied bandwidth;

802.11a_Nss1,(6Mbps)_1TX

EBW

5180MHz

28/01/2019

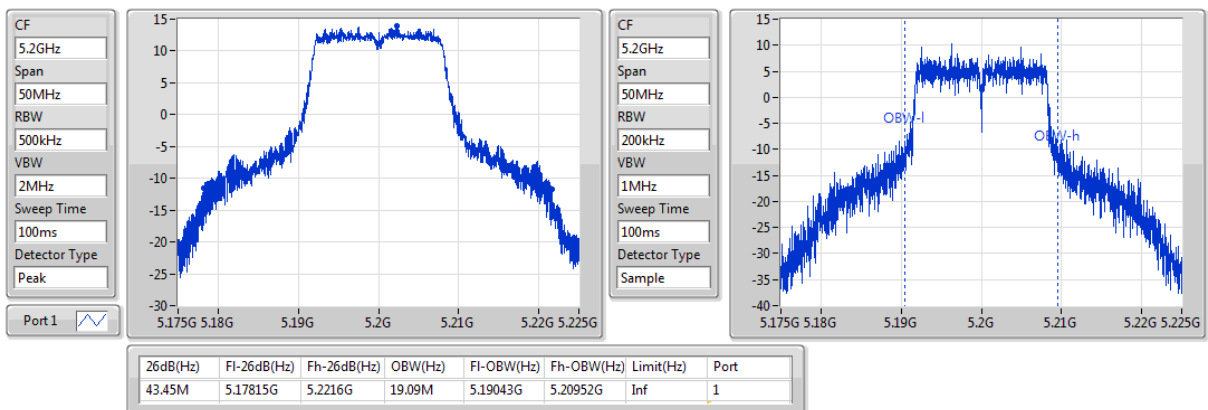


802.11a_Nss1,(6Mbps)_1TX

EBW

5200MHz

28/01/2019

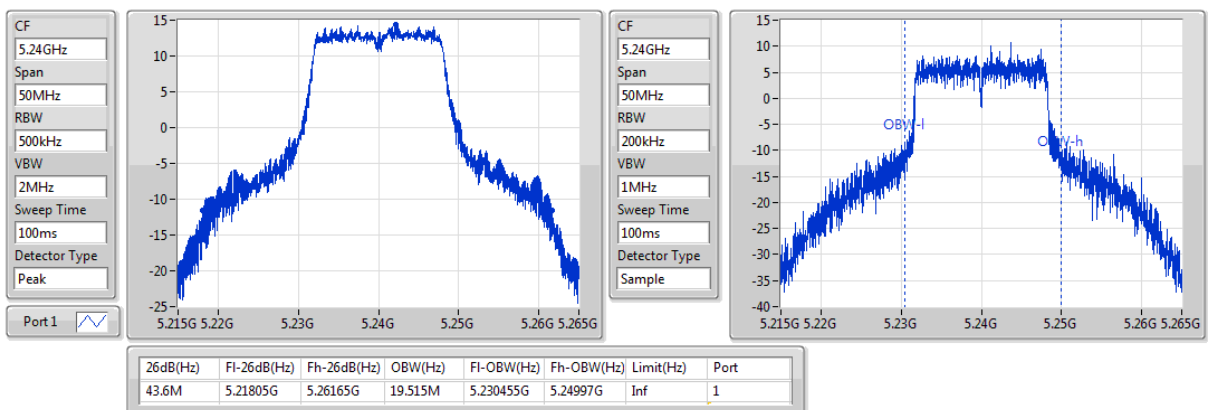


802.11a_Nss1,(6Mbps)_1TX

EBW

5240MHz

28/01/2019

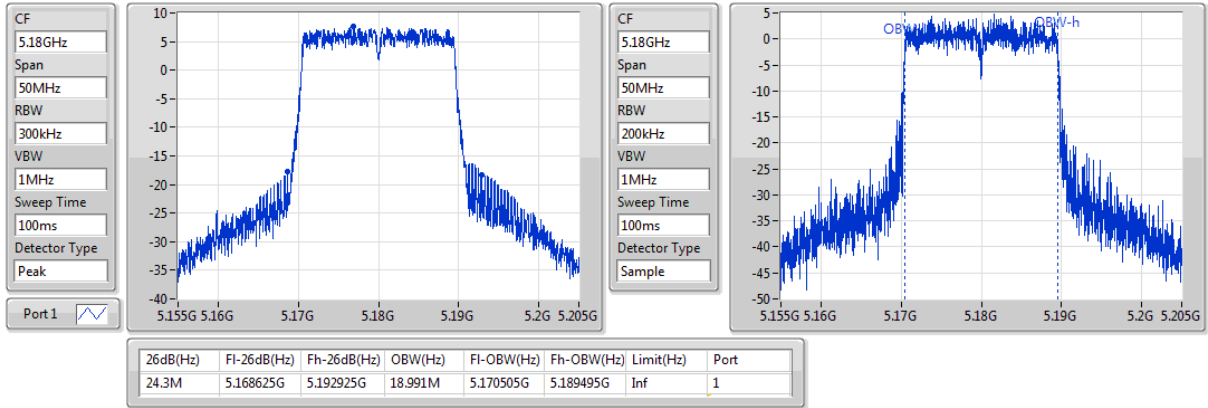


802.11ax HEW20_Nss1,(MCS0)_1TX

EBW

5180MHz

28/01/2019

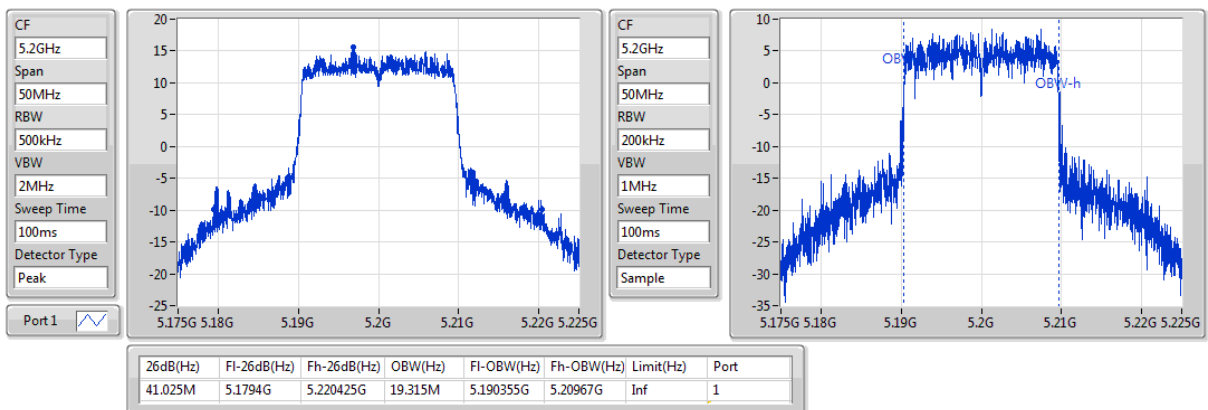


802.11ax HEW20_Nss1,(MCS0)_1TX

EBW

5200MHz

28/01/2019

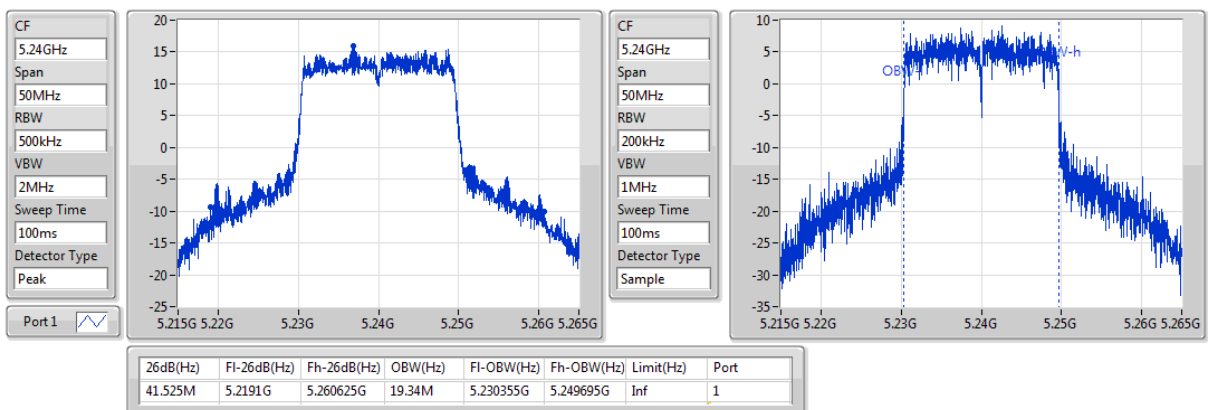


802.11ax HEW20_Nss1,(MCS0)_1TX

EBW

5240MHz

28/01/2019

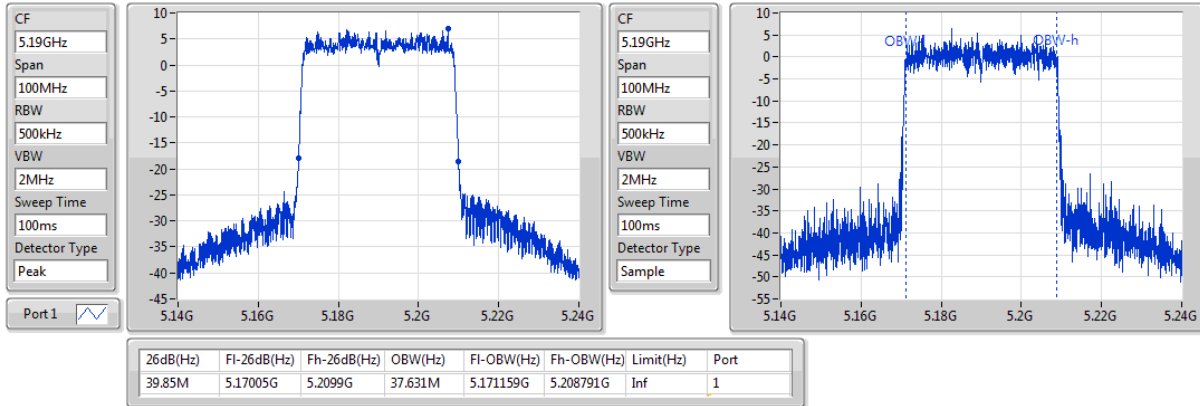


802.11ax HEW40_Nss1,(MCS0)_1TX

EBW

5190MHz

28/01/2019

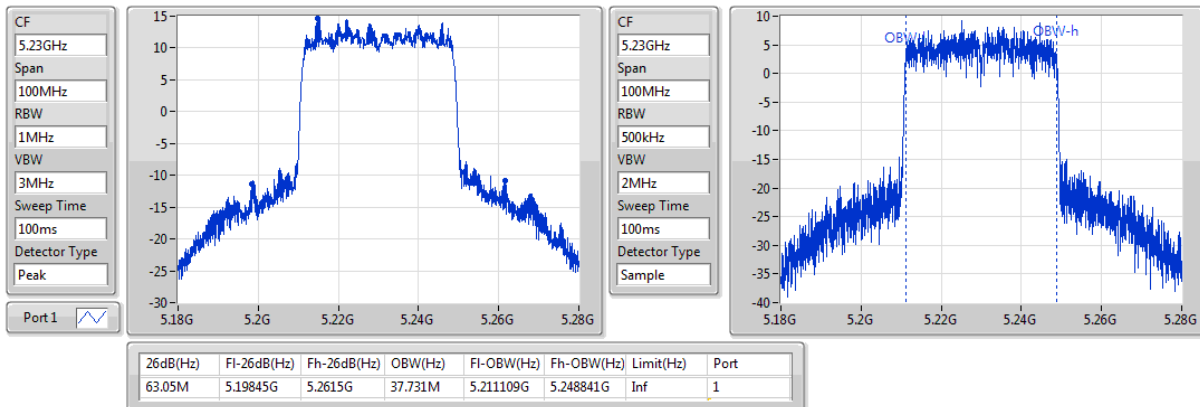


802.11ax HEW40_Nss1,(MCS0)_1TX

EBW

5230MHz

28/01/2019



802.11ax HEW80_Nss1,(MCS0)_1TX

EBW

5210MHz

28/01/2019

