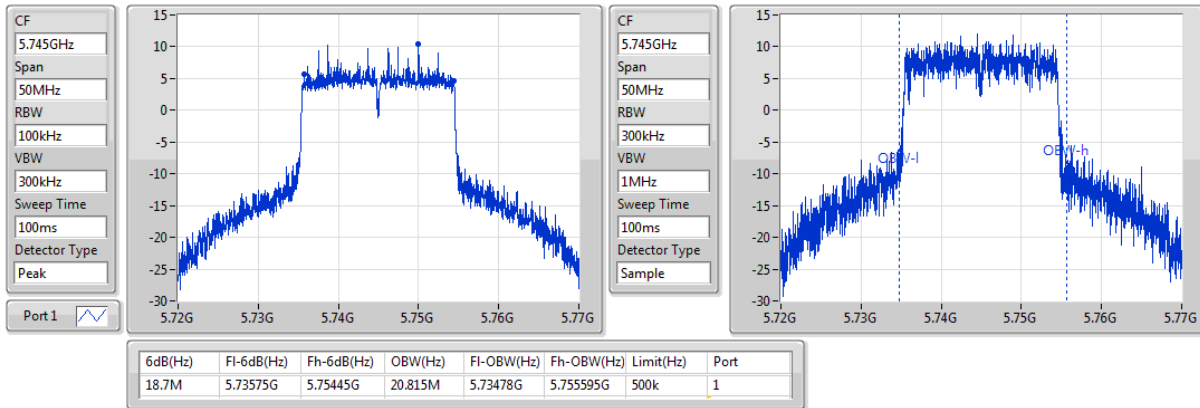


802.11ax HEW20_Nss1,(MCS0)_1TX

EBW

5745MHz

24/01/2019

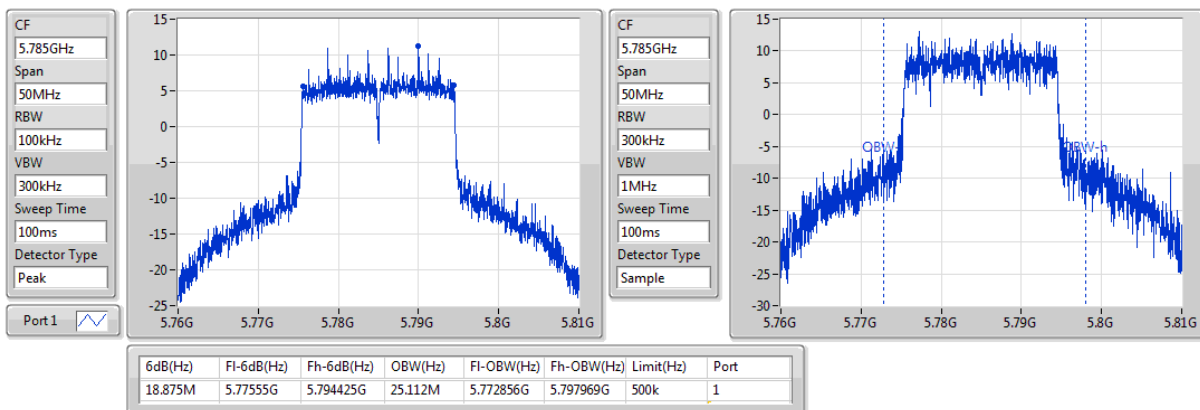


802.11ax HEW20_Nss1,(MCS0)_1TX

EBW

5785MHz

24/01/2019

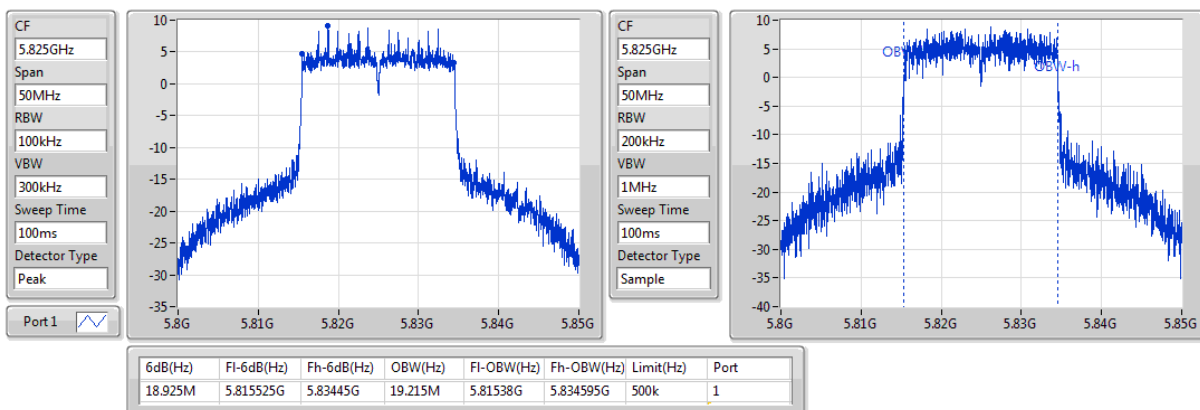


802.11ax HEW20_Nss1,(MCS0)_1TX

EBW

5825MHz

24/01/2019

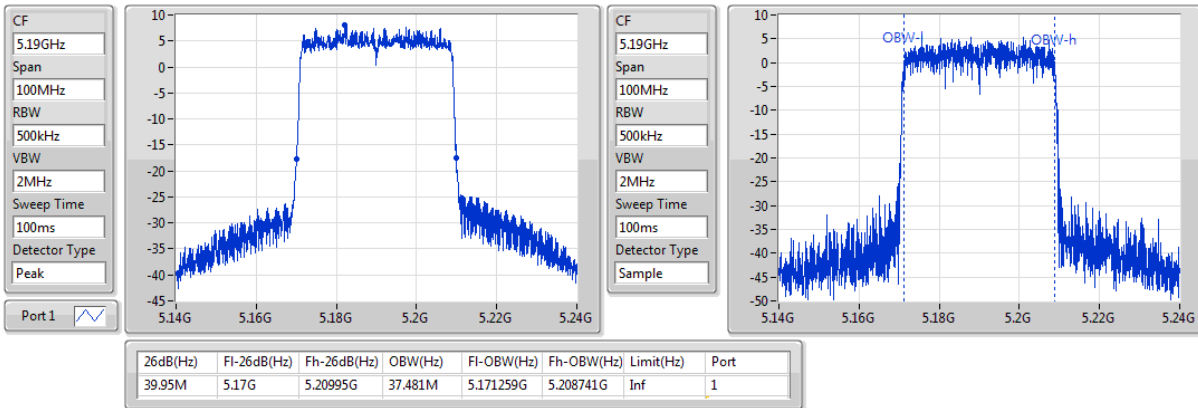


802.11ax HEW40_Nss1,(MCS0)_1TX

EBW

5190MHz

24/01/2019

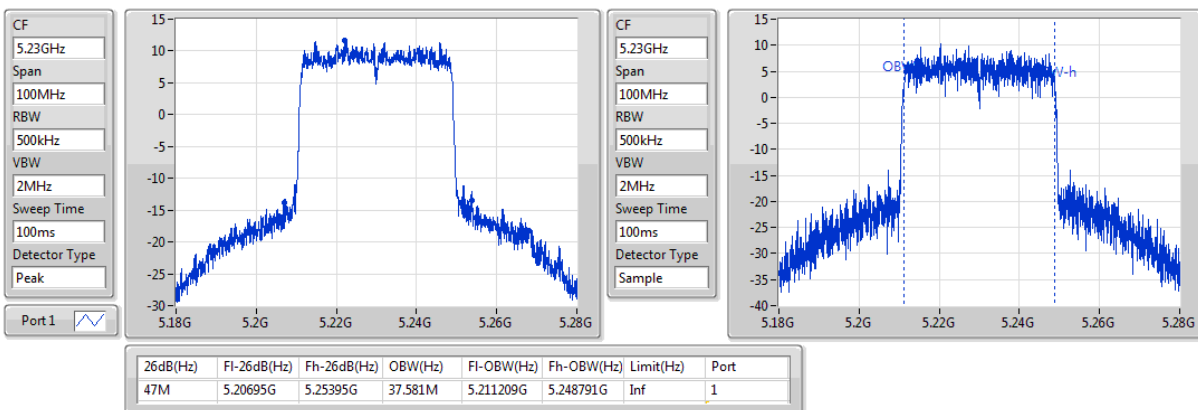


802.11ax HEW40_Nss1,(MCS0)_1TX

EBW

5230MHz

24/01/2019

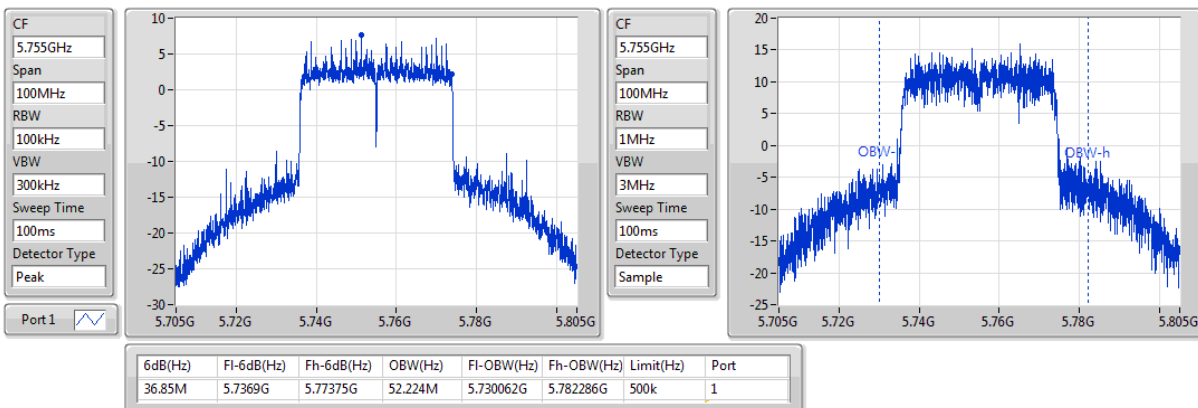


802.11ax HEW40_Nss1,(MCS0)_1TX

EBW

5755MHz

24/01/2019

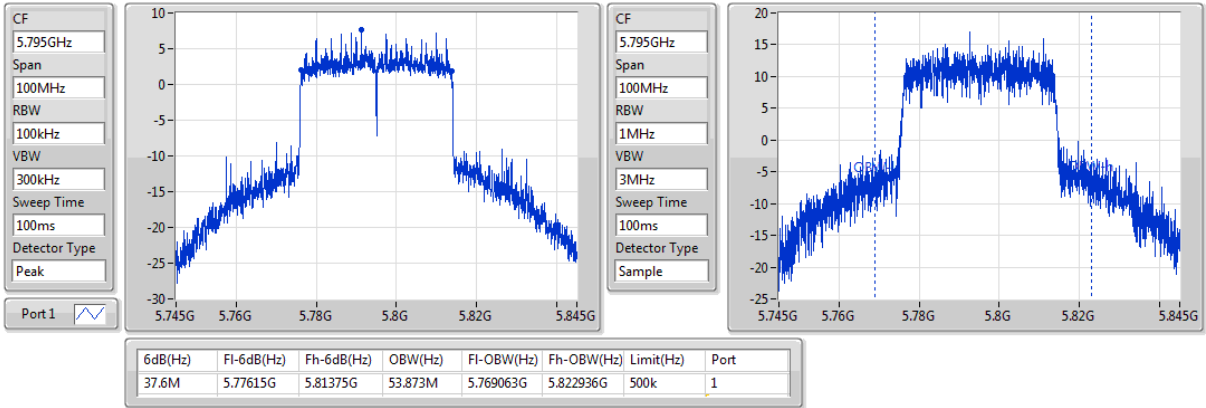


802.11ax HEW40_Nss1,(MCS0)_1TX

EBW

5795MHz

24/01/2019

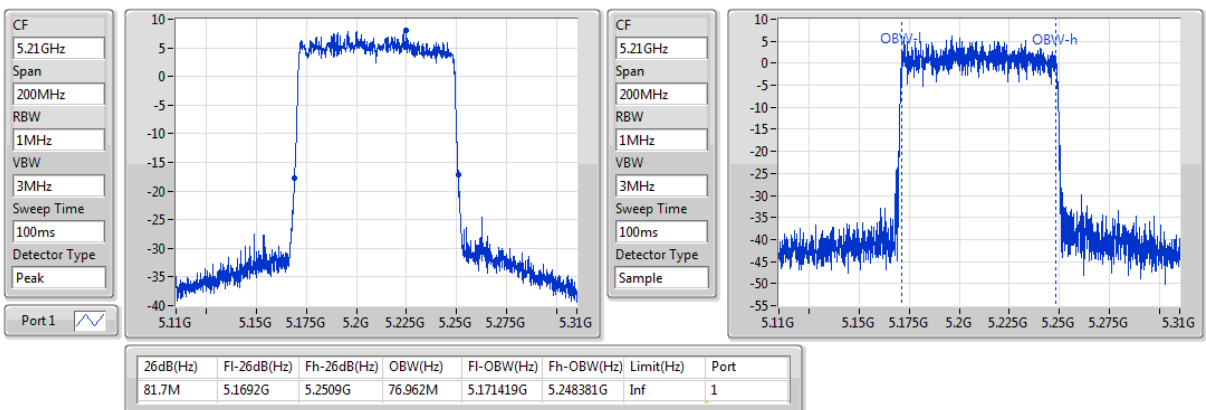


802.11ax HEW80_Nss1,(MCS0)_1TX

EBW

5210MHz

24/01/2019

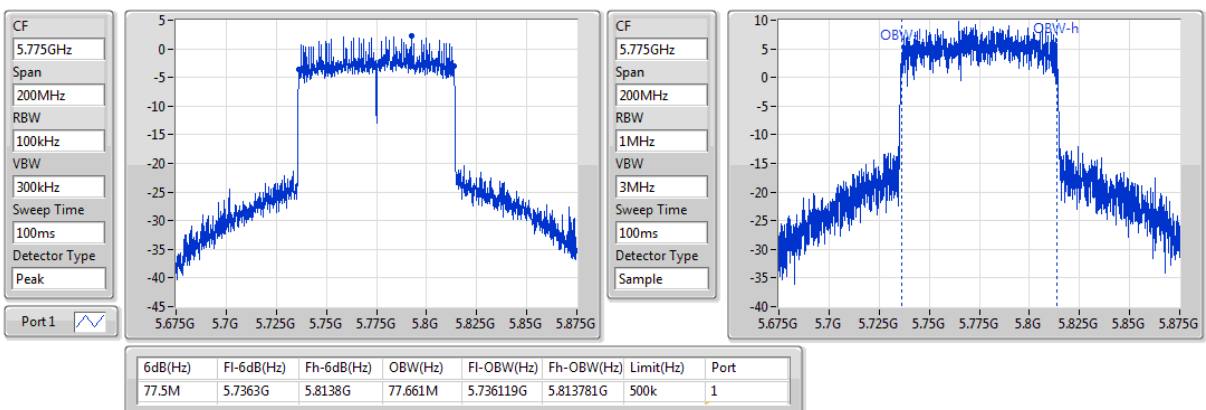


802.11ax HEW80_Nss1,(MCS0)_1TX

EBW

5775MHz

24/01/2019





EBW Result_Radio 2

Appendix B.37

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	28.65M	19.015M	19M0D1D	21.55M	18.966M
802.11ax HEW40_Nss2,(MCS0)_2TX	43.1M	37.731M	37M7D1D	39.9M	37.481M
802.11ax HEW80_Nss2,(MCS0)_2TX	81.6M	76.962M	77M0D1D	81M	76.862M
5.725-5.85GHz	-	-	-	-	-
802.11ax HEW20_Nss2,(MCS0)_2TX	18.9M	25.412M	25M4D1D	18.6M	19.09M
802.11ax HEW40_Nss2,(MCS0)_2TX	37.2M	54.873M	54M9D1D	36.15M	37.831M
802.11ax HEW80_Nss2,(MCS0)_2TX	76.2M	77.161M	77M2D1D	75.3M	77.161M

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 2

Appendix B.37

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	21.825M	18.966M	21.55M	18.966M
5200MHz	Pass	Inf	26.15M	19.015M	23.925M	18.991M
5240MHz	Pass	Inf	27.95M	18.991M	28.65M	18.991M
5745MHz	Pass	500k	18.725M	20.69M	18.7M	19.365M
5785MHz	Pass	500k	18.775M	25.412M	18.6M	20.715M
5825MHz	Pass	500k	18.9M	19.165M	18.75M	19.09M
802.11ax HEW40_Nss2,(MCS0)_2TX	-	-	-	-	-	-
5190MHz	Pass	Inf	39.9M	37.481M	40M	37.531M
5230MHz	Pass	Inf	43.1M	37.731M	40M	37.531M
5755MHz	Pass	500k	36.9M	40.63M	37.2M	37.831M
5795MHz	Pass	500k	36.15M	54.873M	37.15M	38.431M
802.11ax HEW80_Nss2,(MCS0)_2TX	-	-	-	-	-	-
5210MHz	Pass	Inf	81.6M	76.862M	81M	76.962M
5775MHz	Pass	500k	76.2M	77.161M	75.3M	77.161M

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

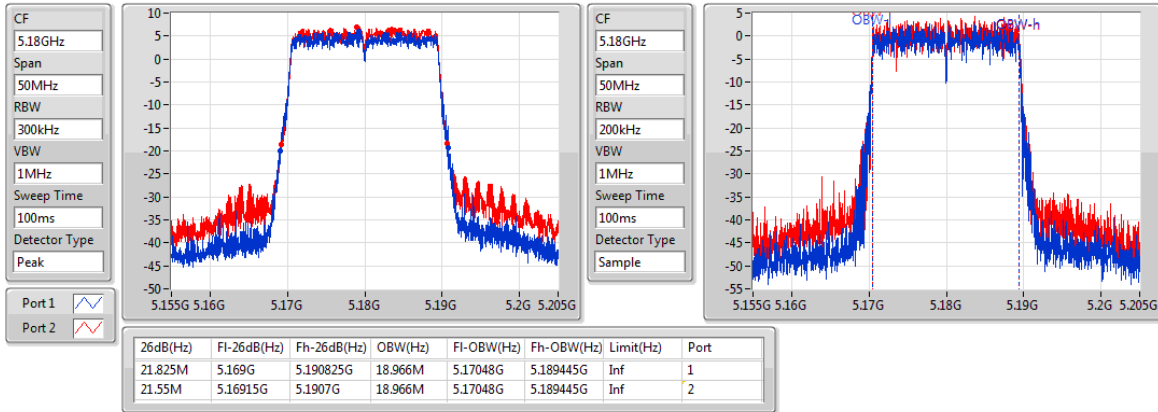
Port X-OBW = Port X 99% occupied bandwidth;

802.11ax HEW20_Nss2,(MCS0)_2TX

EBW

5180MHz

24/01/2019

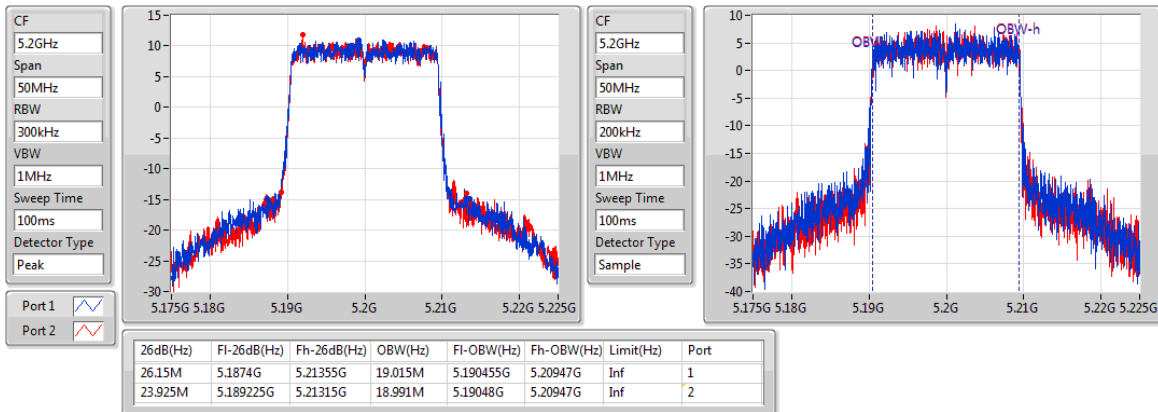


802.11ax HEW20_Nss2,(MCS0)_2TX

EBW

5200MHz

24/01/2019

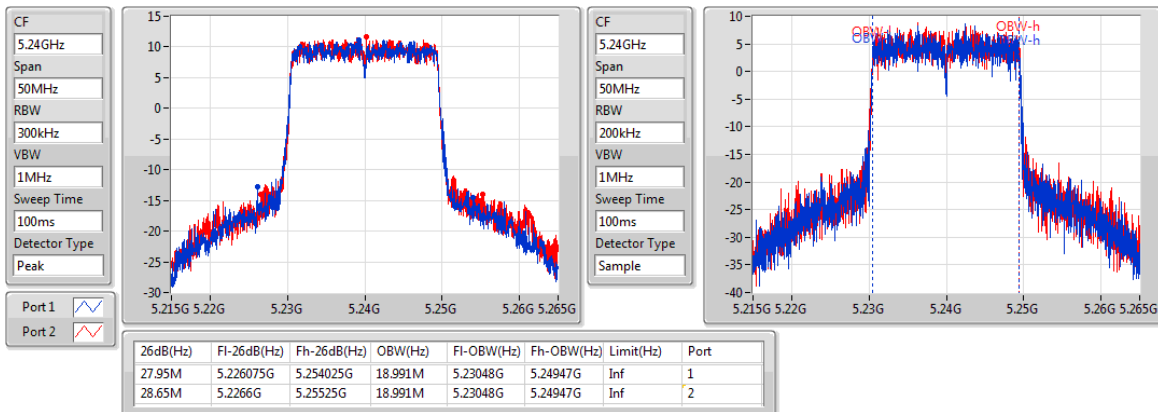


802.11ax HEW20_Nss2,(MCS0)_2TX

EBW

5240MHz

24/01/2019

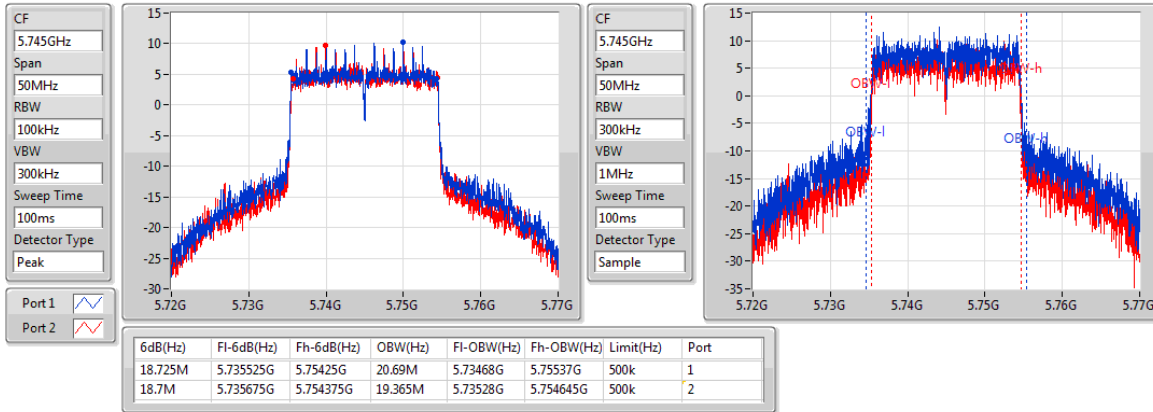


802.11ax HEW20_Nss2,(MCS0)_2TX

EBW

5745MHz

24/01/2019

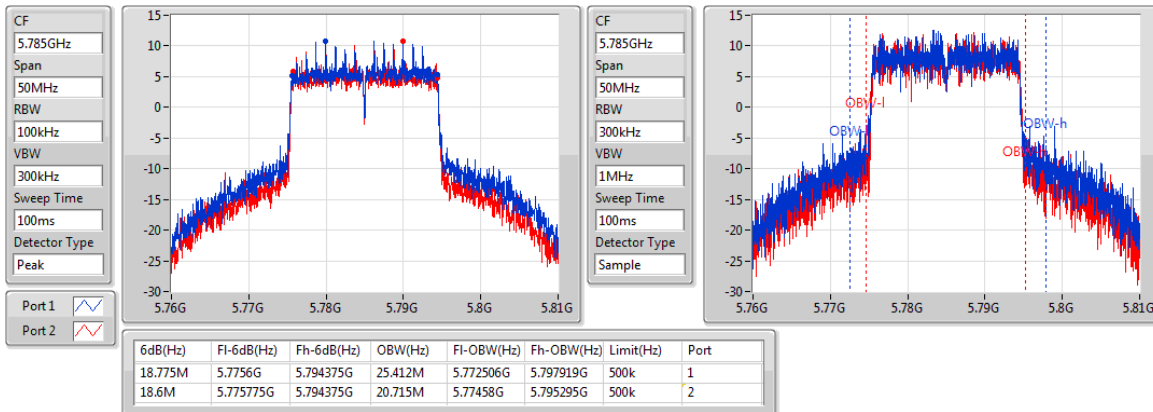


802.11ax HEW20_Nss2,(MCS0)_2TX

EBW

5785MHz

24/01/2019

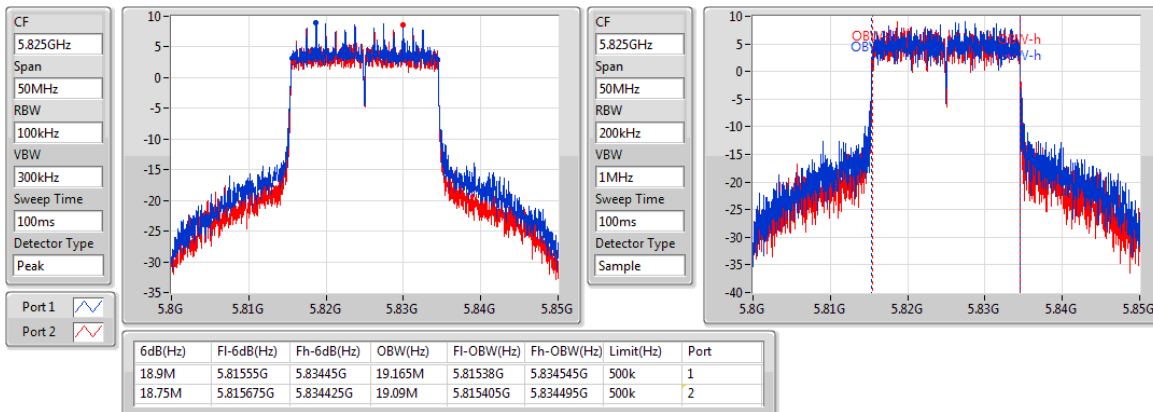


802.11ax HEW20_Nss2,(MCS0)_2TX

EBW

5825MHz

24/01/2019

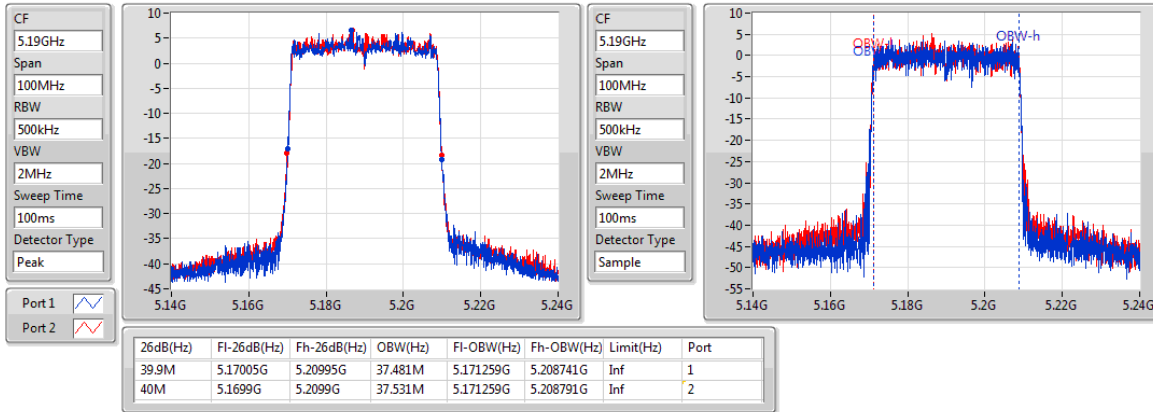


802.11ax HEW40_Nss2,(MCS0)_2TX

EBW

5190MHz

24/01/2019

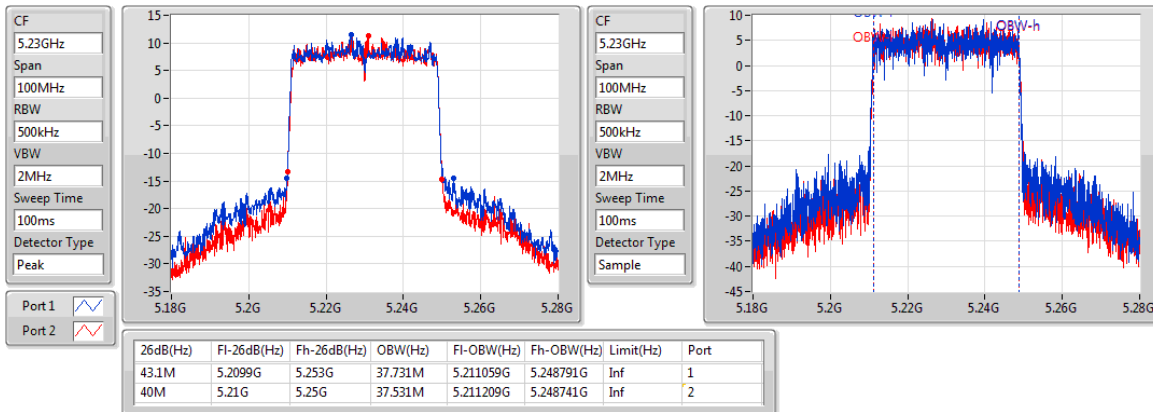


802.11ax HEW40_Nss2,(MCS0)_2TX

EBW

5230MHz

24/01/2019

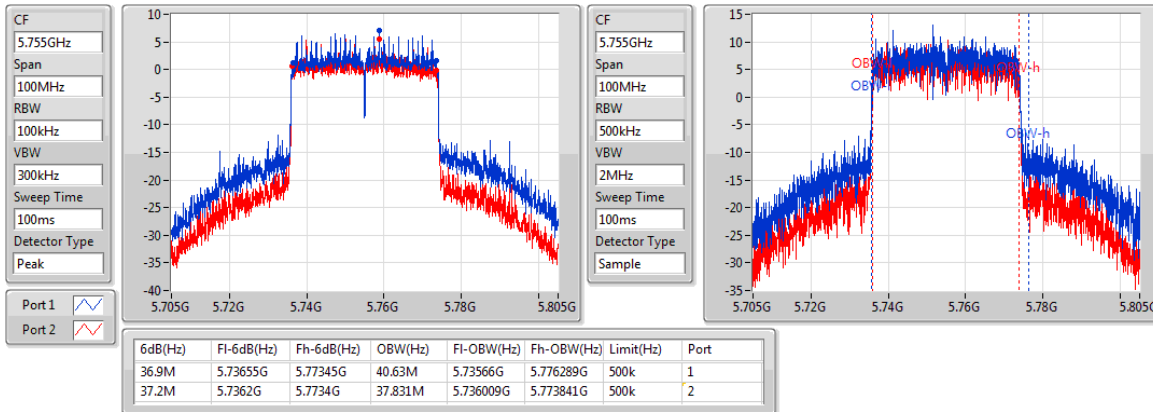


802.11ax HEW40_Nss2,(MCS0)_2TX

EBW

5755MHz

24/01/2019

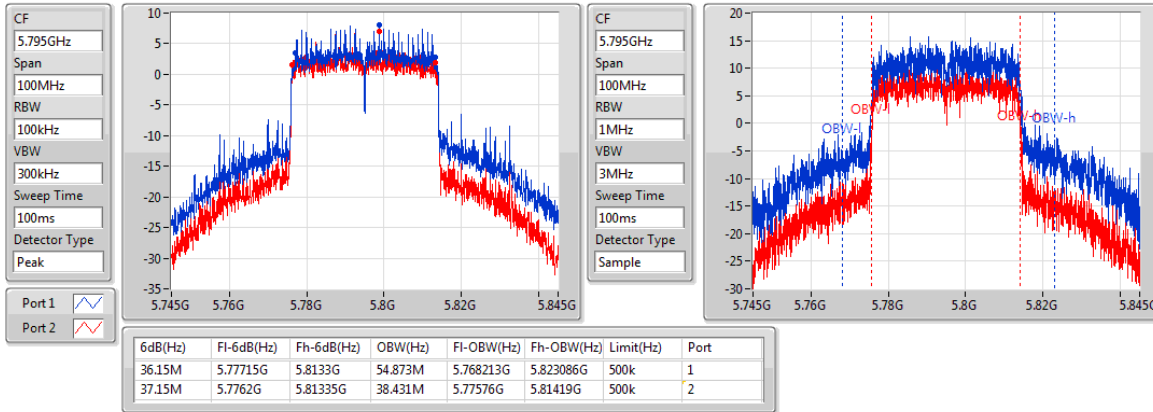


802.11ax HEW40_Nss2,(MCS0)_2TX

EBW

5795MHz

24/01/2019

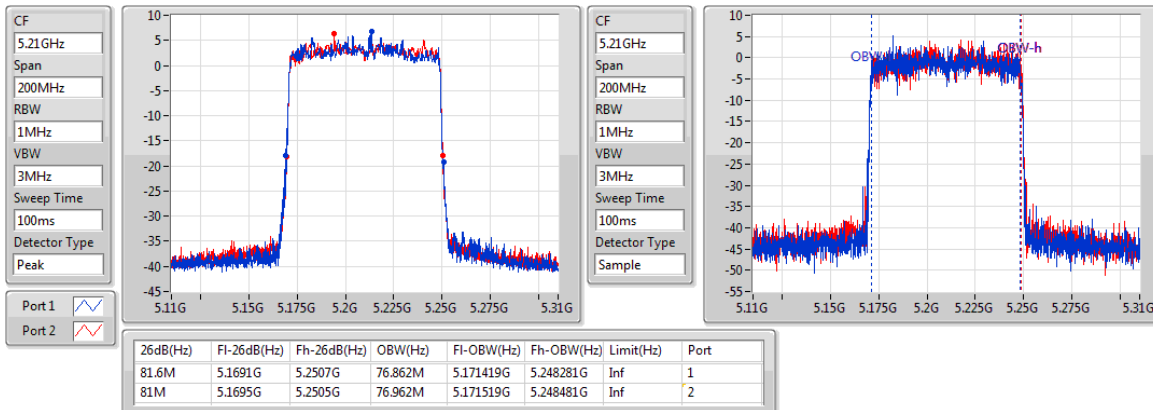


802.11ax HEW80_Nss2,(MCS0)_2TX

EBW

5210MHz

24/01/2019

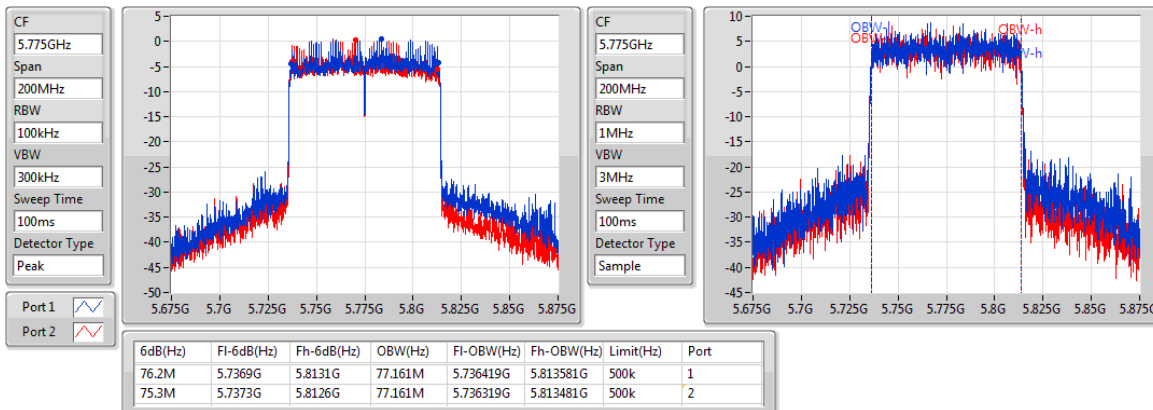


802.11ax HEW80_Nss2,(MCS0)_2TX

EBW

5775MHz

24/01/2019





EBW Result_Radio 2

Appendix B.38

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	28.05M	16.667M	16M7D1D	21.4M	16.492M
802.11ax HEW20_Nss1,(MCS0)_4TX	26.3M	18.991M	19M0D1D	21.375M	18.916M
802.11ax HEW40_Nss1,(MCS0)_4TX	40.15M	37.631M	37M6D1D	39.95M	37.431M
802.11ax HEW80_Nss1,(MCS0)_4TX	81.6M	77.061M	77M1D1D	81.2M	76.762M
5.725-5.85GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	16.325M	20.94M	20M9D1D	16.275M	16.992M
802.11ax HEW20_Nss1,(MCS0)_4TX	18.975M	23.963M	24M0D1D	18.625M	19.065M
802.11ax HEW40_Nss1,(MCS0)_4TX	37.6M	38.481M	38M5D1D	36.9M	37.631M
802.11ax HEW80_Nss1,(MCS0)_4TX	77.4M	77.261M	77M3D1D	76.6M	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;

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	21.6M	16.542M	21.6M	16.592M	21.625M	16.592M	21.4M	16.567M
5200MHz	Pass	Inf	21.8M	16.617M	22.3M	16.567M	26.375M	16.617M	22.05M	16.492M
5240MHz	Pass	Inf	27.225M	16.617M	26.175M	16.617M	28.05M	16.667M	27.325M	16.617M
5745MHz	Pass	500k	16.325M	17.591M	16.325M	16.992M	16.325M	17.466M	16.3M	17.566M
5785MHz	Pass	500k	16.3M	20.94M	16.325M	17.841M	16.325M	20.315M	16.325M	20.065M
5825MHz	Pass	500k	16.3M	18.791M	16.325M	17.341M	16.325M	17.441M	16.275M	17.966M
802.11ax HEW20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	Inf	21.65M	18.916M	21.775M	18.966M	21.775M	18.941M	21.375M	18.966M
5200MHz	Pass	Inf	25.525M	18.966M	25.1M	18.991M	25.875M	18.991M	22.725M	18.966M
5240MHz	Pass	Inf	26.2M	18.966M	24.3M	18.991M	26.3M	18.991M	23.075M	18.991M
5745MHz	Pass	500k	18.65M	21.189M	18.85M	19.49M	18.975M	20.79M	18.875M	20.64M
5785MHz	Pass	500k	18.825M	23.963M	18.8M	19.94M	18.9M	23.063M	18.625M	21.639M
5825MHz	Pass	500k	18.925M	19.215M	18.925M	19.065M	18.975M	19.065M	18.925M	19.165M
802.11ax HEW40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	Inf	40M	37.581M	40M	37.481M	40M	37.631M	40.05M	37.431M
5230MHz	Pass	Inf	39.95M	37.581M	40.1M	37.531M	40.15M	37.531M	40.1M	37.581M
5755MHz	Pass	500k	37.6M	37.881M	37.05M	37.631M	37M	37.681M	37.45M	37.831M
5795MHz	Pass	500k	36.9M	38.481M	37.05M	37.781M	37.3M	37.981M	36.9M	38.131M
802.11ax HEW80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	Inf	81.6M	76.962M	81.5M	76.762M	81.2M	77.061M	81.4M	76.962M
5775MHz	Pass	500k	76.6M	77.261M	77.1M	77.061M	77.4M	77.161M	76.8M	76.762M

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

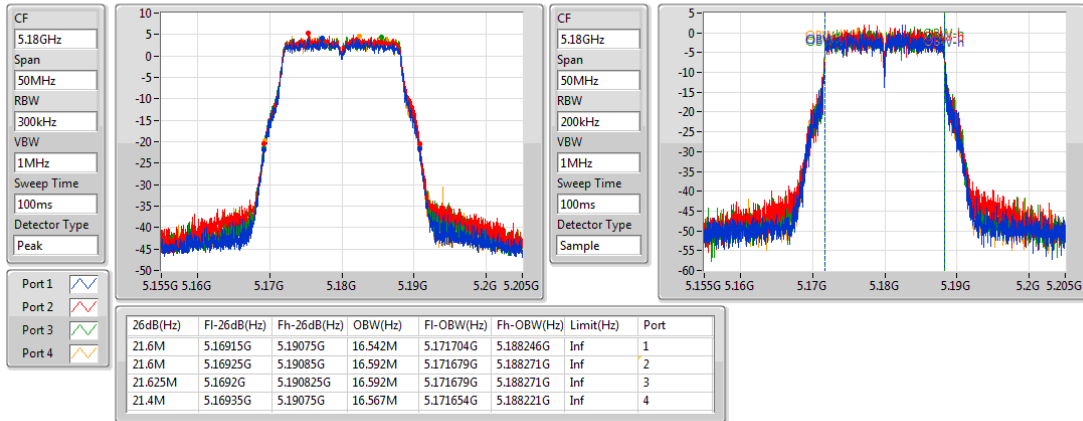
Port X-OBW = Port X 99% occupied bandwidth;

802.11a_Nss1,(6Mbps)_4TX

EBW

5180MHz

24/01/2019

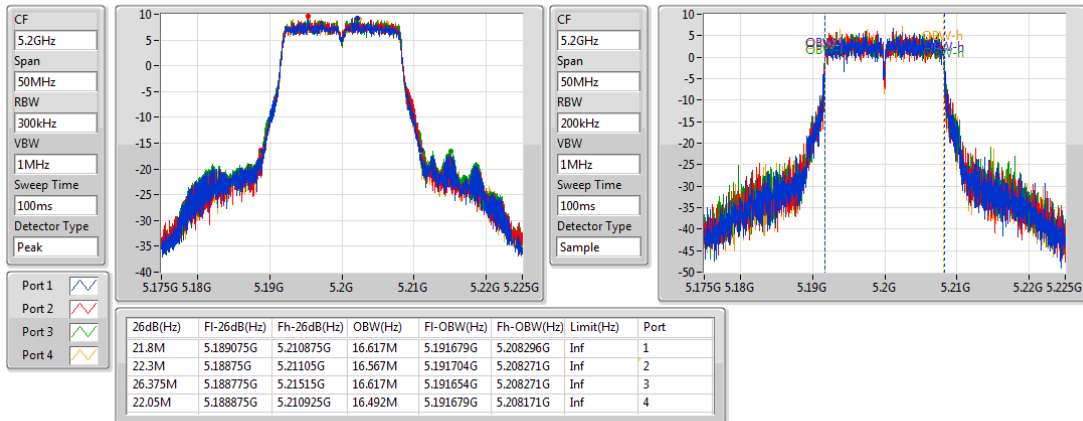


802.11a_Nss1,(6Mbps)_4TX

EBW

5200MHz

24/01/2019

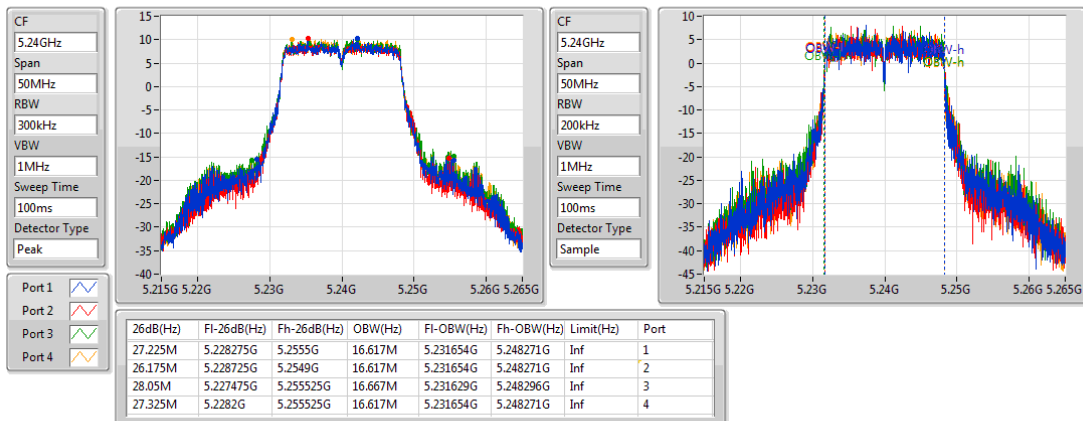


802.11a_Nss1,(6Mbps)_4TX

EBW

5240MHz

24/01/2019

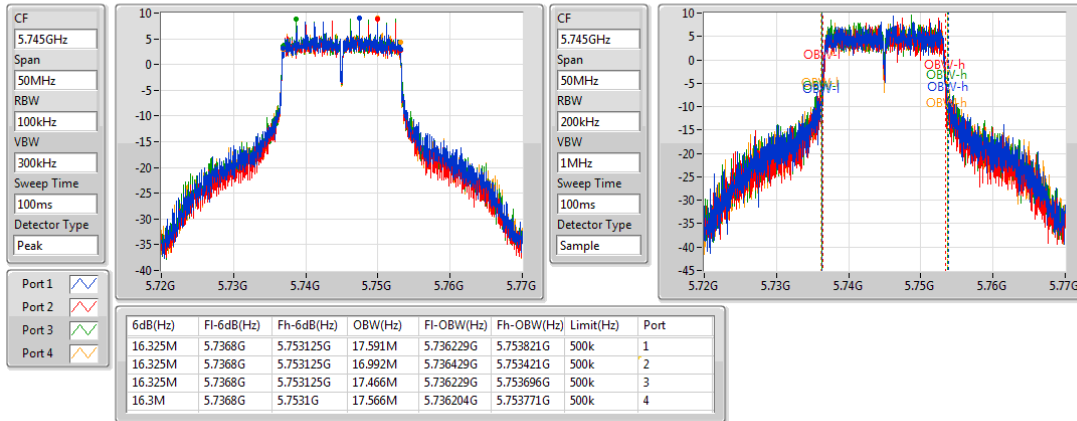


802.11a_Nss1,(6Mbps)_4TX

EBW

5745MHz

24/01/2019

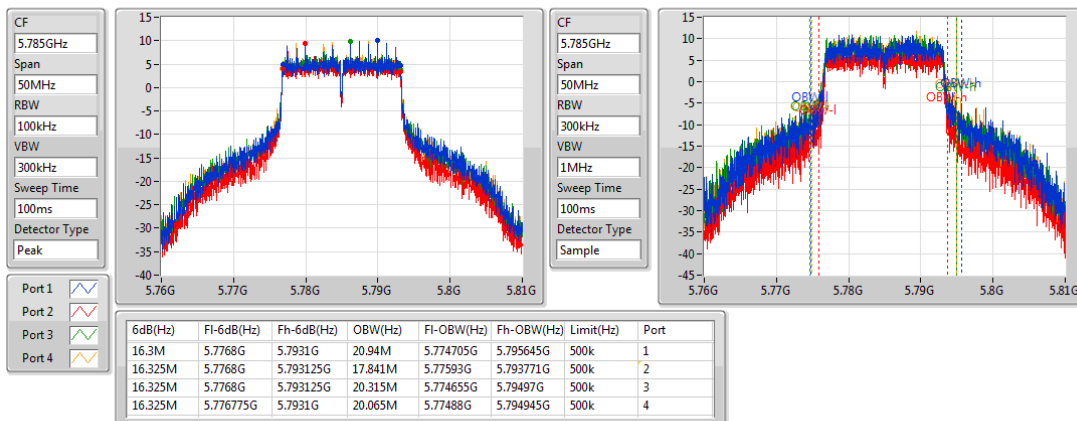


802.11a_Nss1,(6Mbps)_4TX

EBW

5785MHz

24/01/2019

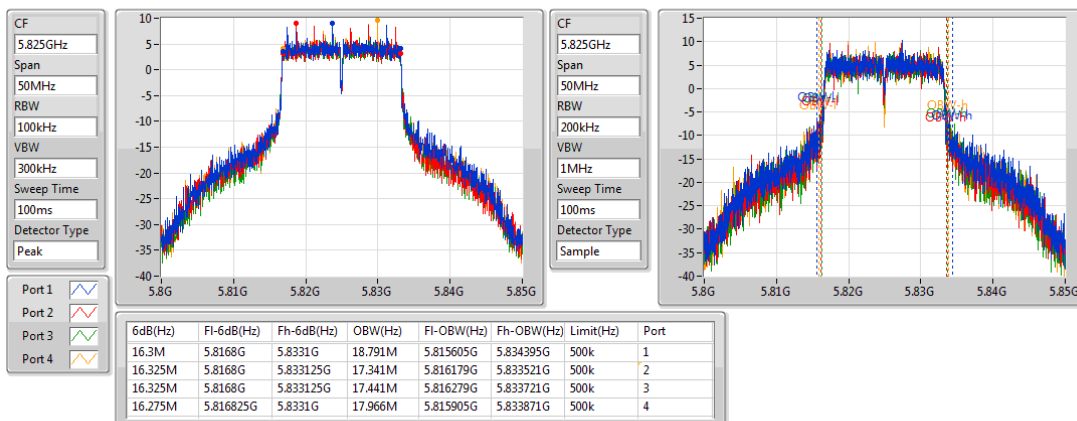


802.11a_Nss1,(6Mbps)_4TX

EBW

5825MHz

24/01/2019

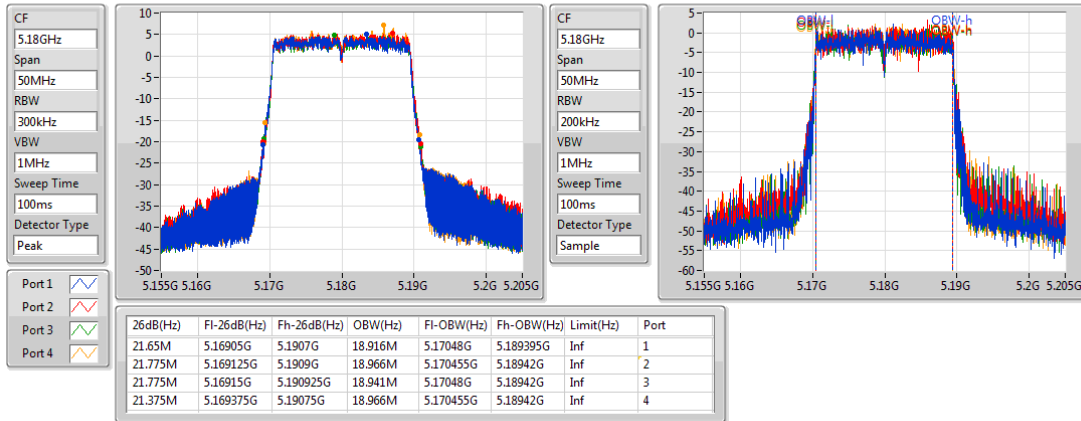


802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

5180MHz

24/01/2019

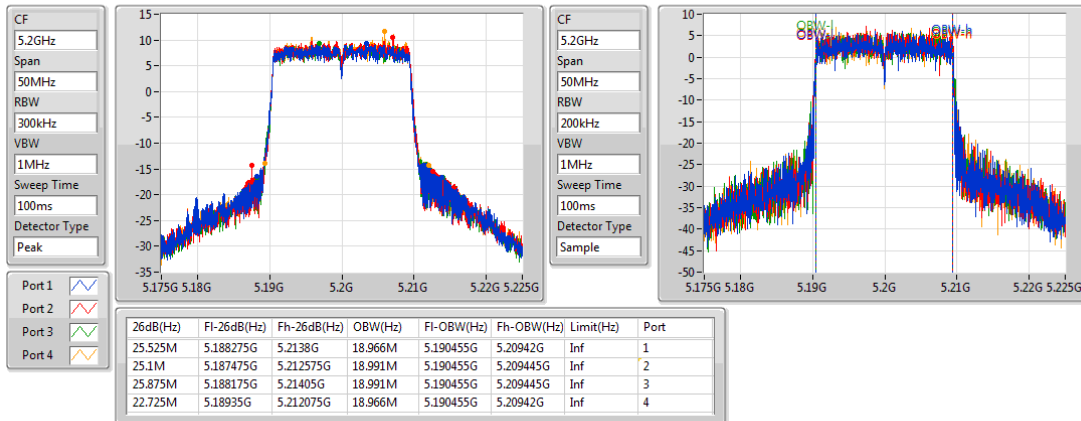


802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

5200MHz

24/01/2019

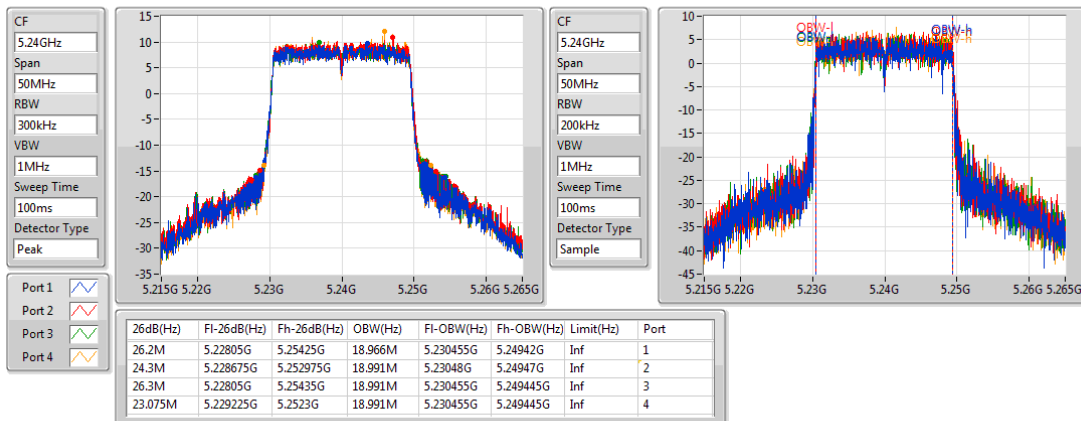


802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

5240MHz

24/01/2019

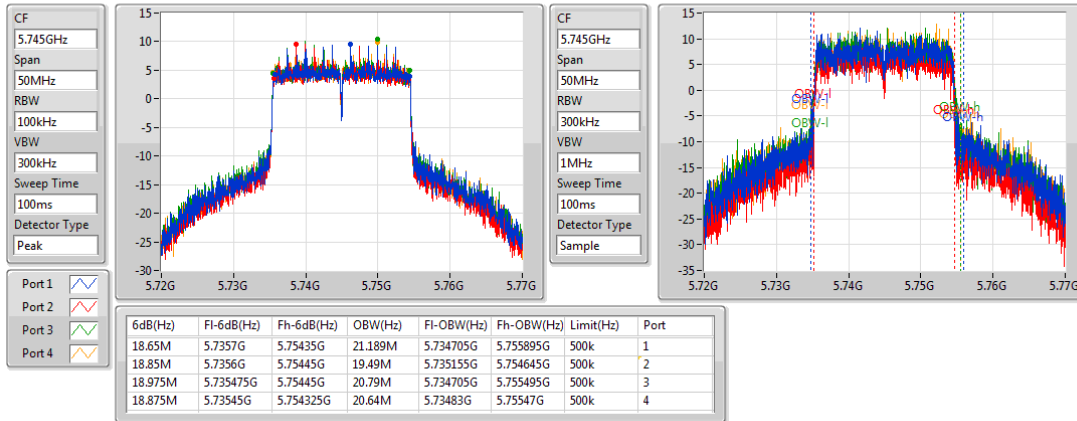


802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

5745MHz

24/01/2019

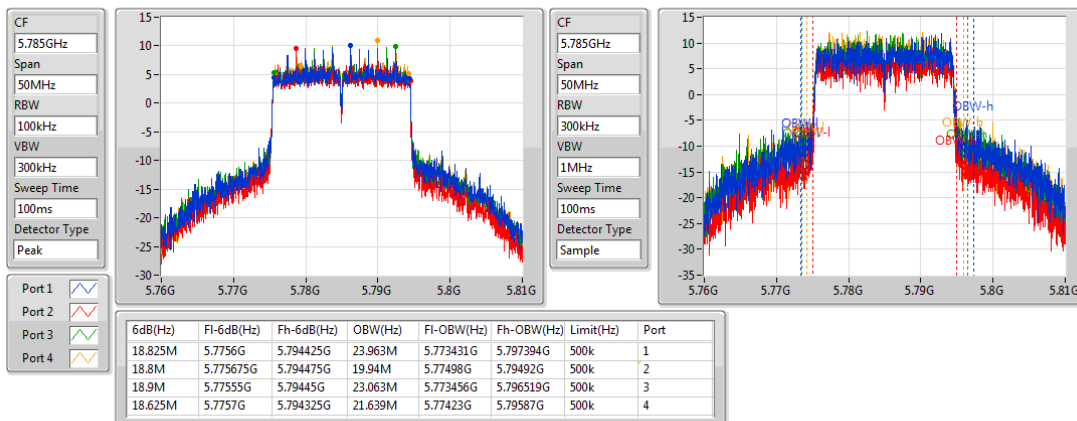


802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

5785MHz

24/01/2019

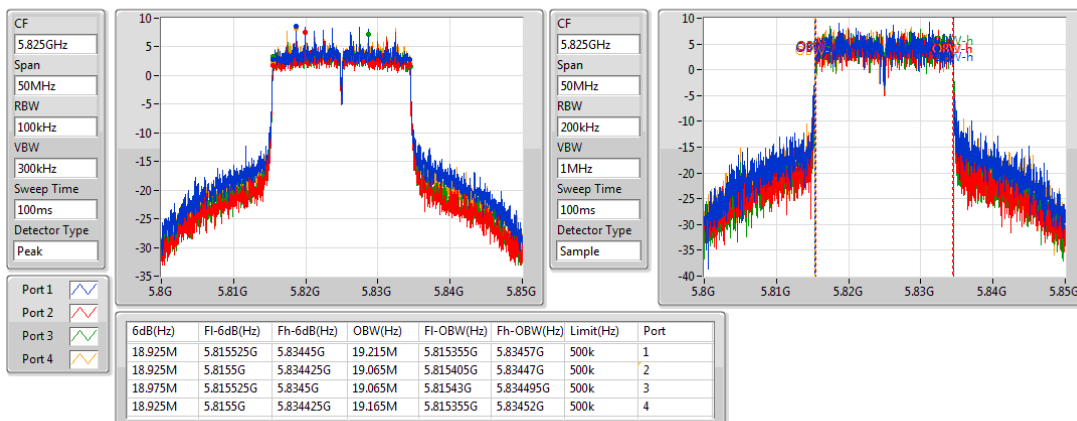


802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

5825MHz

24/01/2019

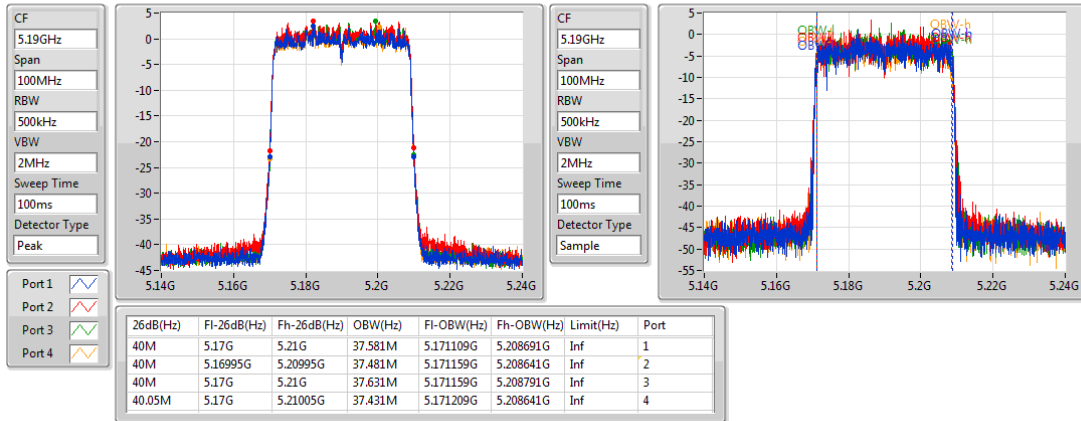


802.11ax HEW40_Nss1,(MCS0)_4TX

EBW

5190MHz

24/01/2019

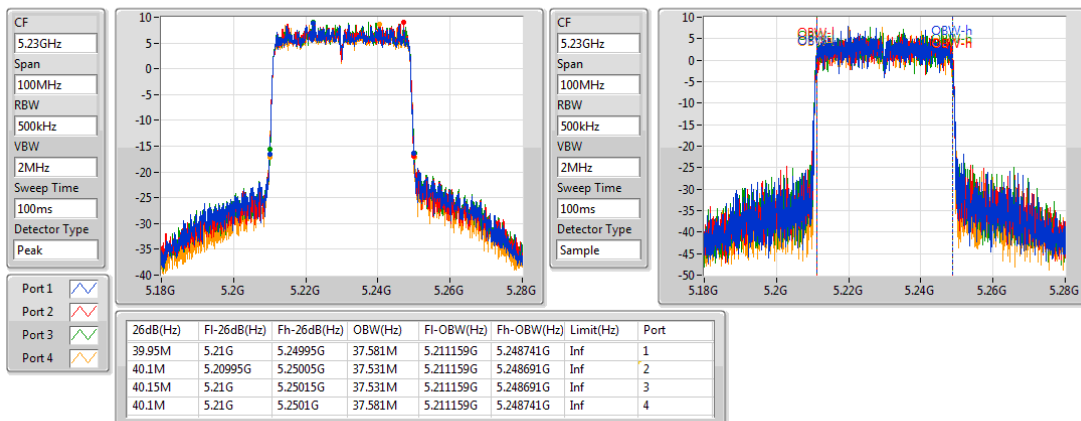


802.11ax HEW40_Nss1,(MCS0)_4TX

EBW

5230MHz

24/01/2019

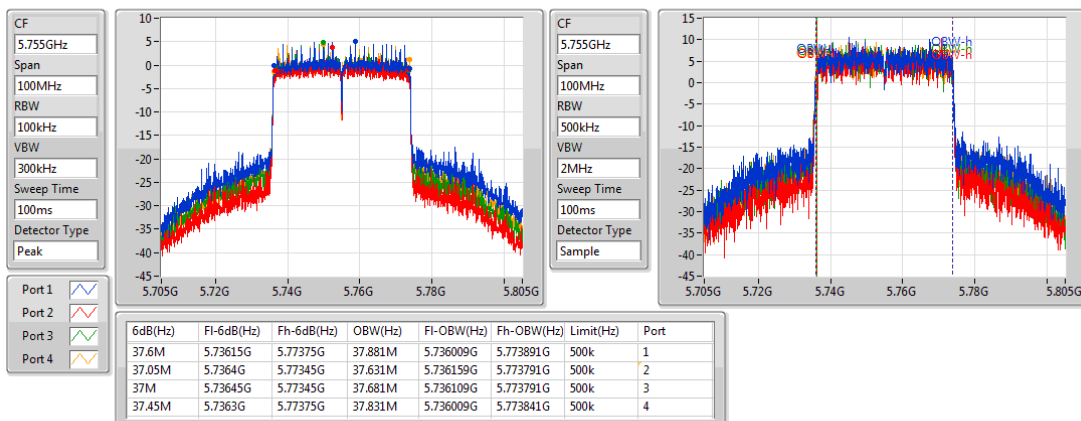


802.11ax HEW40_Nss1,(MCS0)_4TX

EBW

5755MHz

24/01/2019

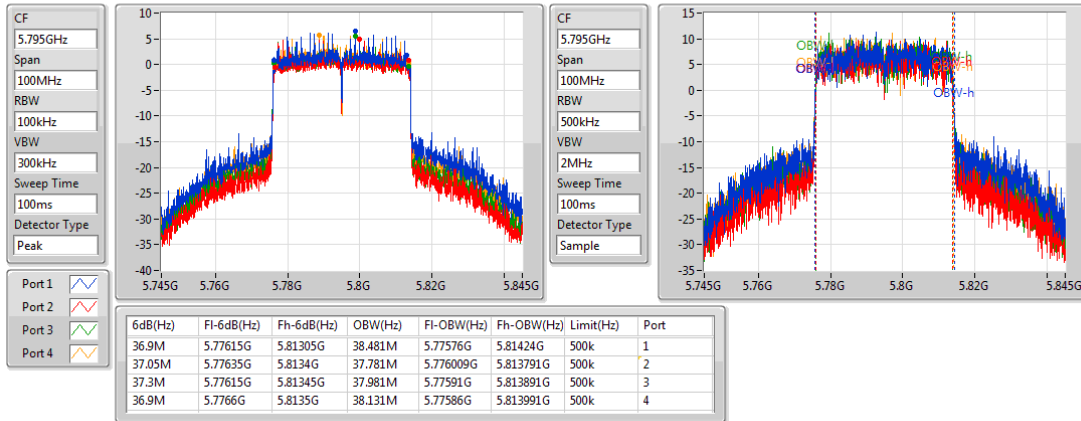


802.11ax HEW40_Nss1,(MCS0)_4TX

EBW

5795MHz

24/01/2019

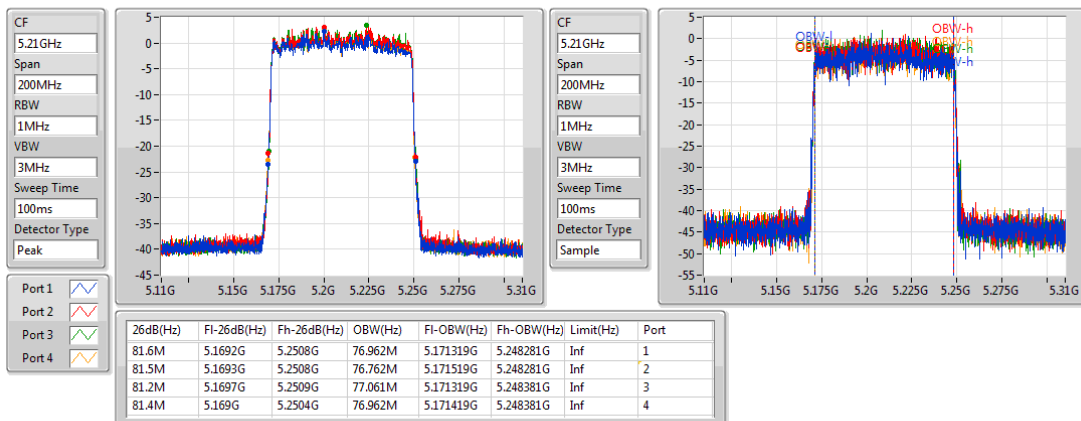


802.11ax HEW80_Nss1,(MCS0)_4TX

EBW

5210MHz

24/01/2019

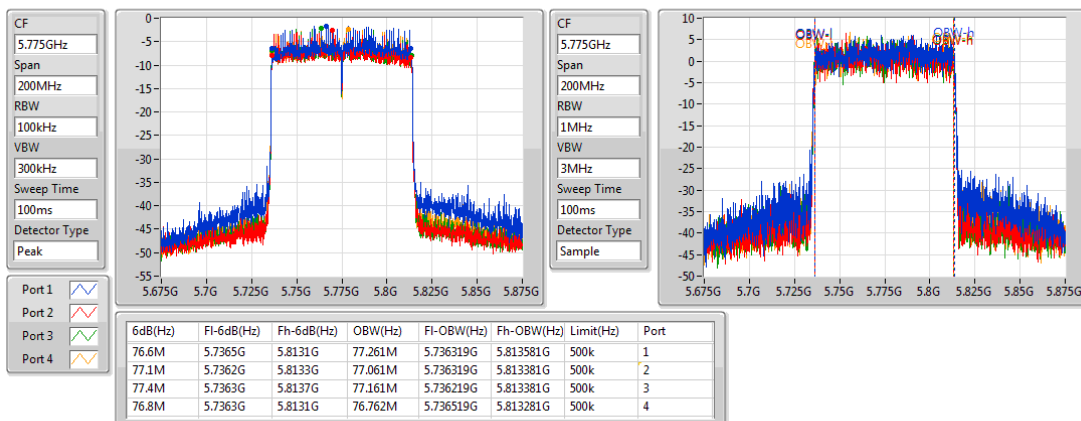


802.11ax HEW80_Nss1,(MCS0)_4TX

EBW

5775MHz

24/01/2019



**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	26.4M	19.04M	19M0D1D	21.525M	18.941M
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	40.3M	37.631M	37M6D1D	39.85M	37.431M
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	82.2M	77.161M	77M2D1D	81.6M	76.962M
5.725-5.85GHz	-	-	-	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	18.925M	19.065M	19M1D1D	18.575M	18.991M
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	37.55M	37.781M	37M8D1D	36.6M	37.631M
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	76.7M	77.061M	77M1D1D	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)	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	21.575M	18.941M	21.525M	18.966M	21.8M	18.941M	21.75M	18.941M
5200MHz	Pass	Inf	23.3M	18.941M	23.4M	18.966M	23.35M	18.966M	24.2M	19.015M
5240MHz	Pass	Inf	23.45M	18.966M	23.475M	18.966M	23.275M	19.04M	26.4M	19.015M
5745MHz	Pass	500k	18.875M	19.015M	18.8M	19.065M	18.675M	19.04M	18.775M	19.015M
5785MHz	Pass	500k	18.575M	19.04M	18.85M	19.04M	18.675M	19.015M	18.925M	18.991M
5825MHz	Pass	500k	18.775M	19.015M	18.775M	19.015M	18.725M	19.015M	18.925M	19.015M
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	Inf	40.15M	37.531M	39.85M	37.631M	40M	37.581M	40.05M	37.431M
5230MHz	Pass	Inf	40.1M	37.631M	39.85M	37.581M	40.3M	37.531M	40.2M	37.581M
5755MHz	Pass	500k	37.5M	37.731M	37.55M	37.731M	37.55M	37.781M	37.5M	37.731M
5795MHz	Pass	500k	36.6M	37.731M	36.7M	37.781M	37.3M	37.681M	37.25M	37.631M
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	Inf	82.2M	76.962M	81.8M	77.161M	82M	77.161M	81.6M	77.061M
5775MHz	Pass	500k	76.7M	77.061M	76.4M	77.061M	76.1M	77.061M	75.3M	76.962M

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

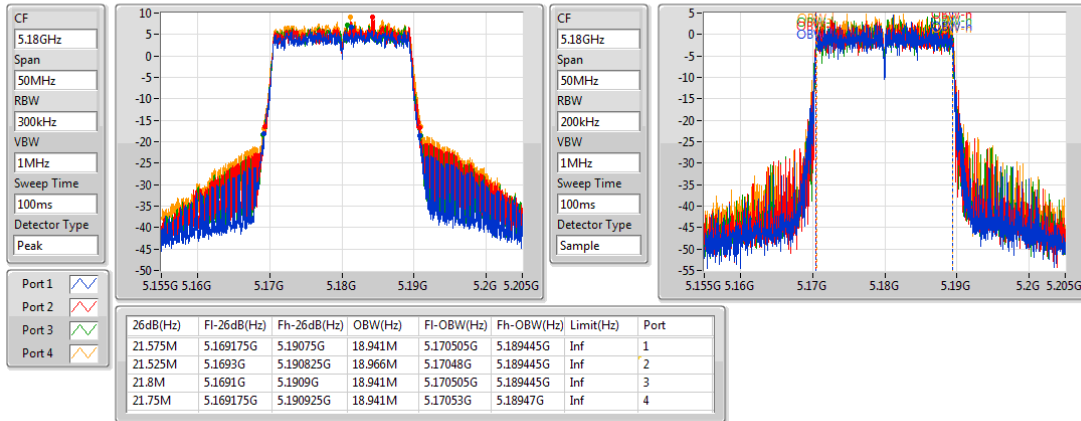
Port X-OBW = Port X 99% occupied bandwidth;

802.11ax HEW20-BF_Nss1,(MCS0)_4TX

EBW

5180MHz

26/01/2019

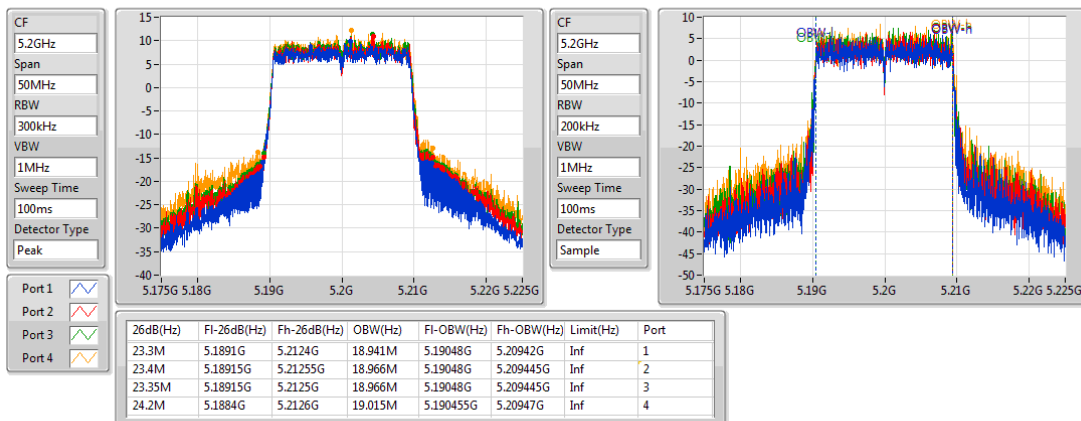


802.11ax HEW20-BF_Nss1,(MCS0)_4TX

EBW

5200MHz

26/01/2019

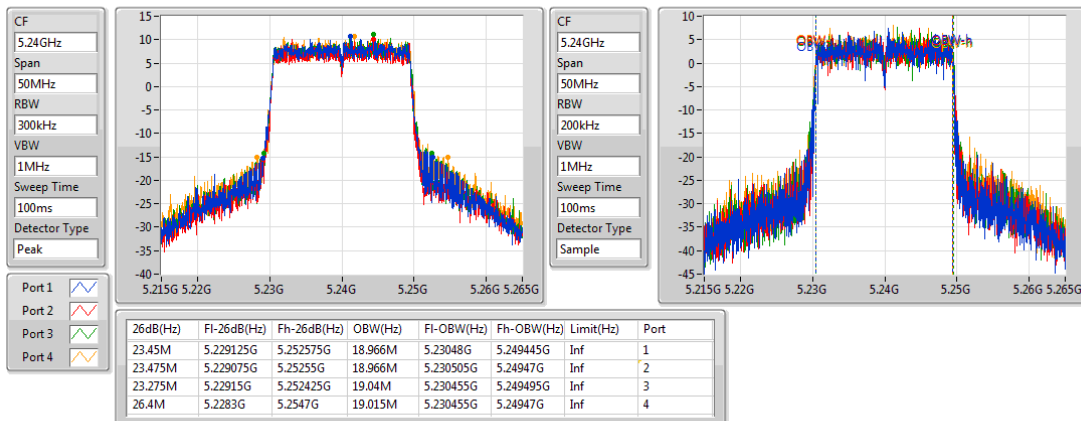


802.11ax HEW20-BF_Nss1,(MCS0)_4TX

EBW

5240MHz

26/01/2019

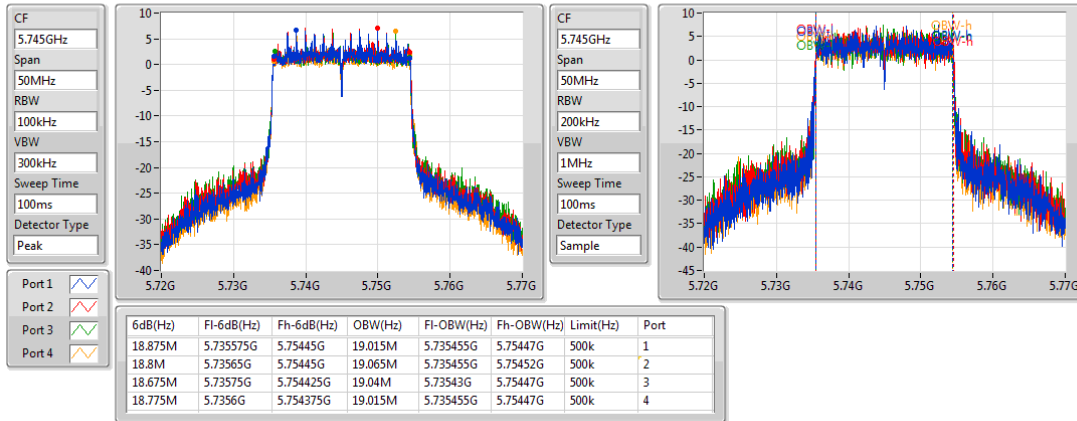


802.11ax HEW20-BF_Nss1,(MCS0)_4TX

EBW

5745MHz

26.01/2019

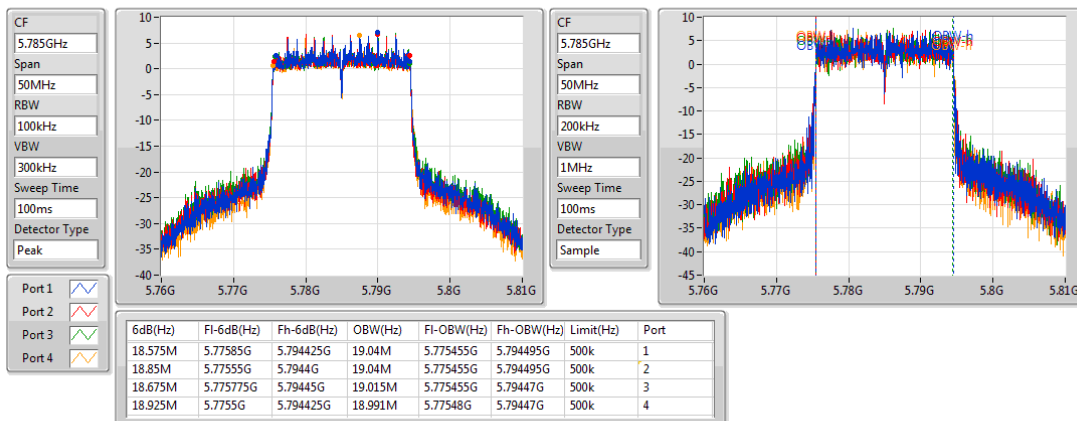


802.11ax HEW20-BF_Nss1,(MCS0)_4TX

EBW

5785MHz

26.01/2019

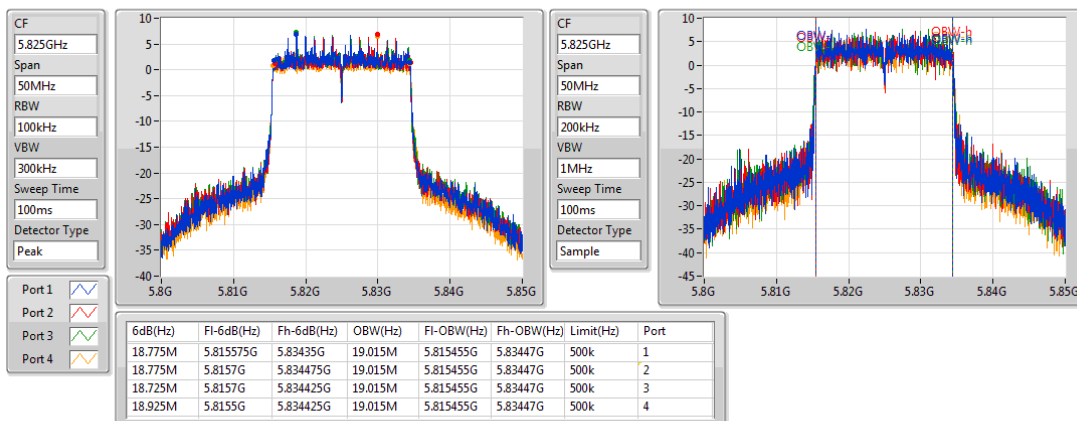


802.11ax HEW20-BF_Nss1,(MCS0)_4TX

EBW

5825MHz

26.01/2019

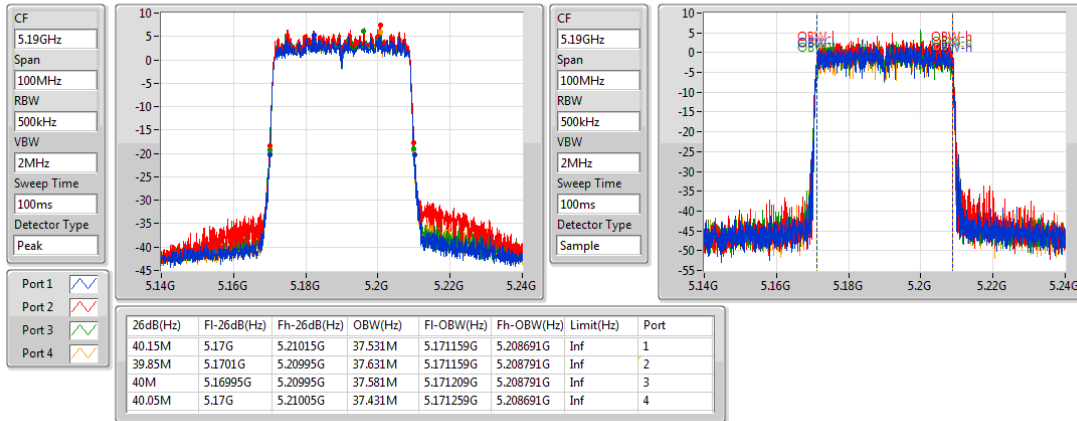


802.11ax HEW40-BF_Nss1,(MCS0)_4TX

EBW

5190MHz

26/01/2019

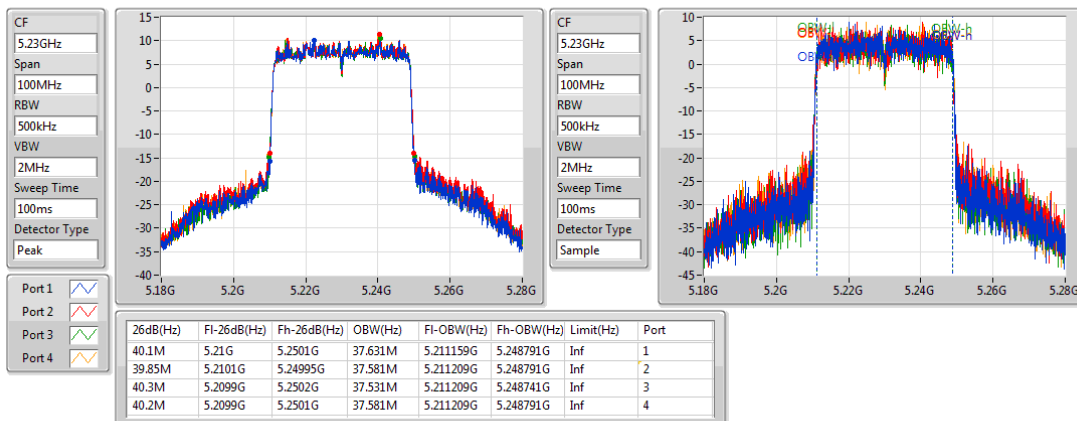


802.11ax HEW40-BF_Nss1,(MCS0)_4TX

EBW

5230MHz

26/01/2019

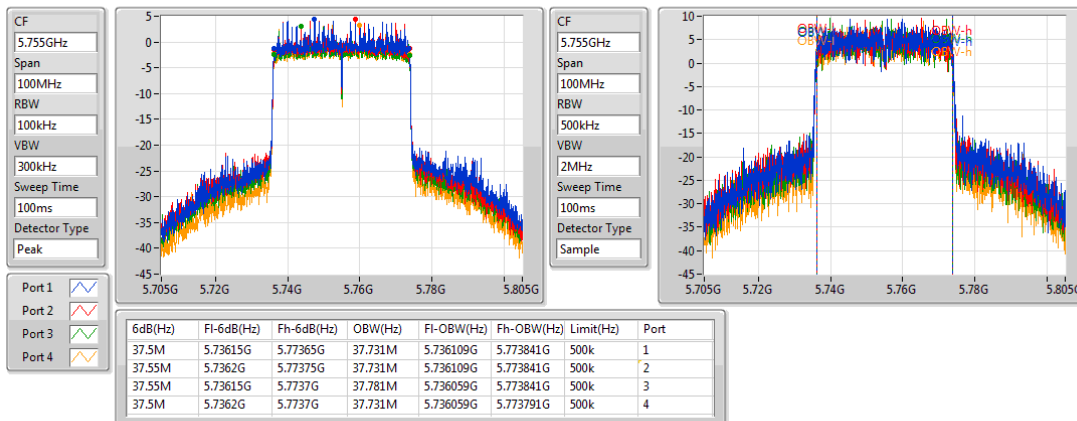


802.11ax HEW40-BF_Nss1,(MCS0)_4TX

EBW

5755MHz

26/01/2019

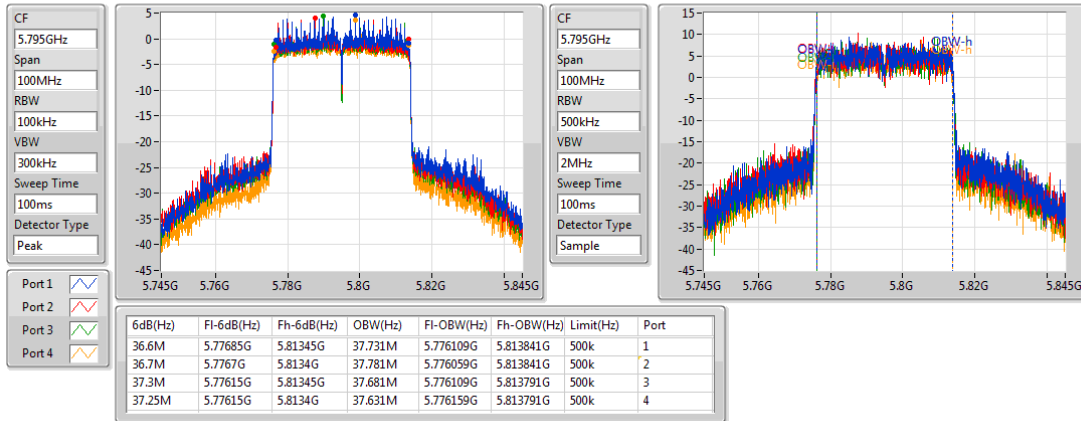


802.11ax HEW40-BF_Nss1,(MCS0)_4TX

EBW

5795MHz

26/01/2019

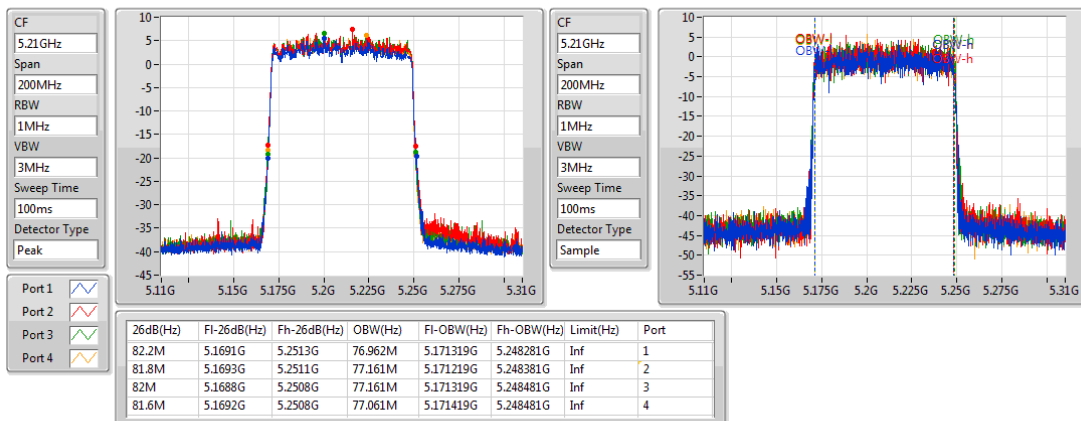


802.11ax HEW80-BF_Nss1,(MCS0)_4TX

EBW

5210MHz

26/01/2019

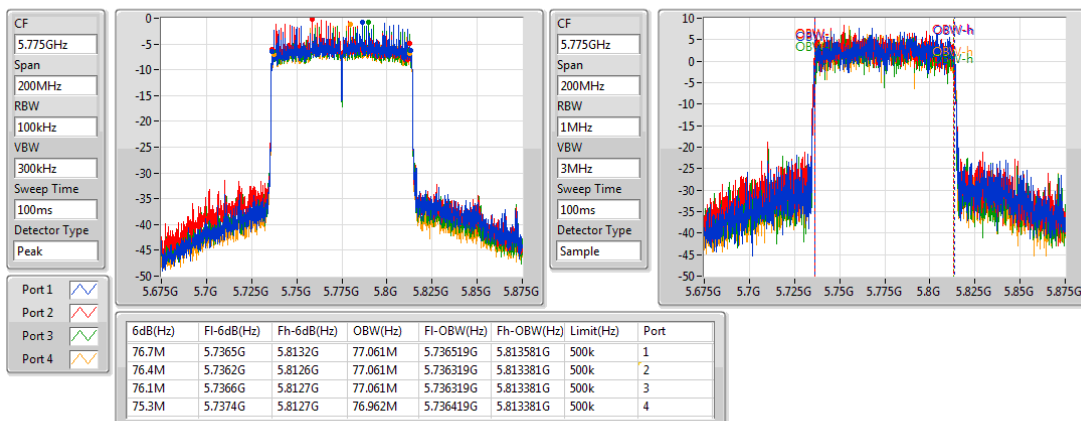


802.11ax HEW80-BF_Nss1,(MCS0)_4TX

EBW

5775MHz

26/01/2019





EBW Result_Radio 2

Appendix B.40

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	30.8M	19.015M	19M0D1D	21.275M	18.916M
802.11ax HEW40_Nss4,(MCS0)_4TX	40.25M	37.731M	37M7D1D	40.05M	37.431M
802.11ax HEW80_Nss4,(MCS0)_4TX	82M	77.061M	77M1D1D	81.5M	76.962M
5.725-5.85GHz	-	-	-	-	-
802.11ax HEW20_Nss4,(MCS0)_4TX	19.075M	23.863M	23M9D1D	18.5M	19.015M
802.11ax HEW40_Nss4,(MCS0)_4TX	37.5M	38.831M	38M8D1D	36.6M	37.631M
802.11ax HEW80_Nss4,(MCS0)_4TX	77.4M	77.261M	77M3D1D	76.2M	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	21.8M	18.916M	21.75M	18.941M	21.95M	18.916M	21.4M	18.941M
5200MHz	Pass	Inf	22.075M	18.941M	22M	18.966M	21.8M	18.966M	21.275M	18.916M
5240MHz	Pass	Inf	30.45M	18.966M	26.7M	18.991M	30.8M	18.966M	26.25M	19.015M
5745MHz	Pass	500k	18.675M	20.565M	18.6M	19.365M	18.7M	19.815M	19.05M	20.04M
5785MHz	Pass	500k	18.5M	23.863M	18.75M	19.94M	18.775M	23.213M	18.65M	22.664M
5825MHz	Pass	500k	18.675M	19.115M	18.6M	19.015M	18.725M	19.04M	19.075M	19.115M
802.11ax HEW40_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	Inf	40.15M	37.581M	40.05M	37.581M	40.05M	37.431M	40.2M	37.731M
5230MHz	Pass	Inf	40.25M	37.531M	40.05M	37.581M	40.15M	37.431M	40.15M	37.581M
5755MHz	Pass	500k	37.45M	37.981M	36.65M	37.631M	37.5M	37.781M	37.2M	37.781M
5795MHz	Pass	500k	37.5M	38.831M	36.6M	37.831M	37.45M	37.981M	36.6M	38.131M
802.11ax HEW80_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	Inf	81.5M	76.962M	81.6M	77.061M	81.7M	76.962M	82M	76.962M
5775MHz	Pass	500k	76.2M	76.962M	77.3M	77.261M	77.4M	76.962M	76.3M	76.962M

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

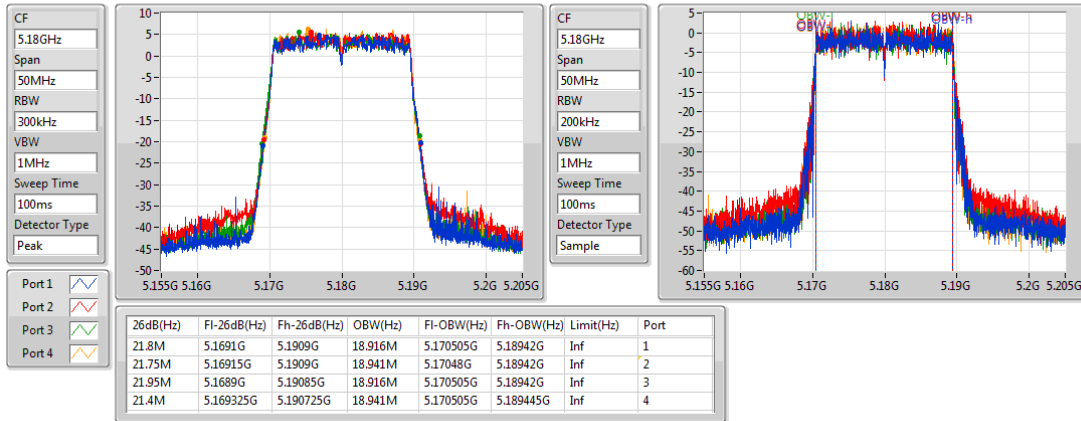
Port X-OBW = Port X 99% occupied bandwidth;

802.11ax HEW20_Nss4,(MCS0)_4TX

EBW

5180MHz

24/01/2019

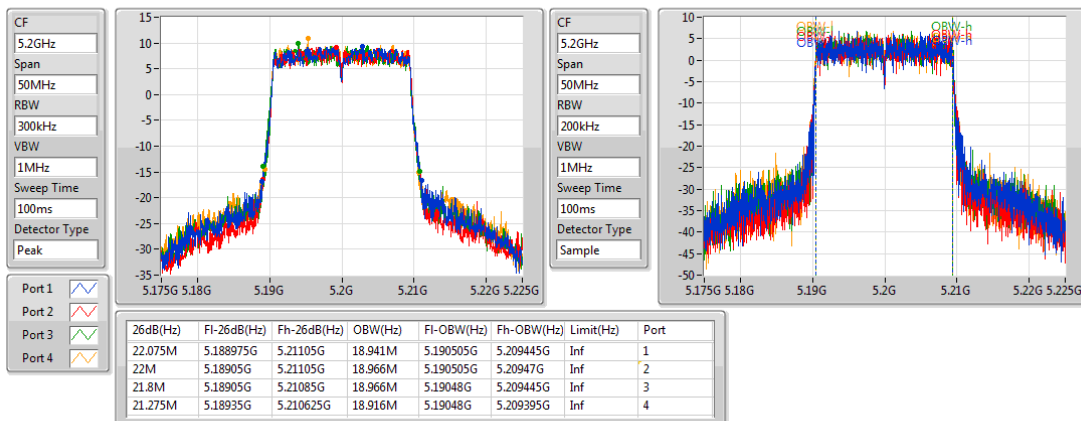


802.11ax HEW20_Nss4,(MCS0)_4TX

EBW

5200MHz

24/01/2019

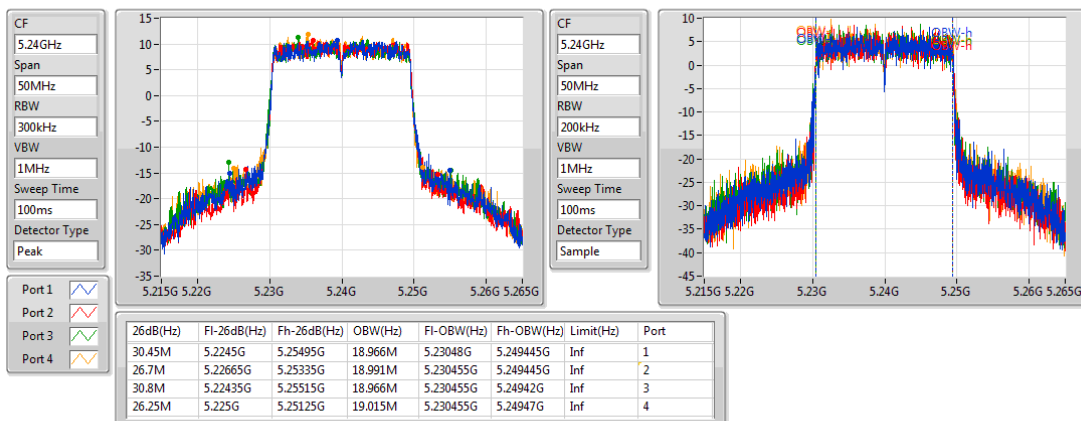


802.11ax HEW20_Nss4,(MCS0)_4TX

EBW

5240MHz

24/01/2019

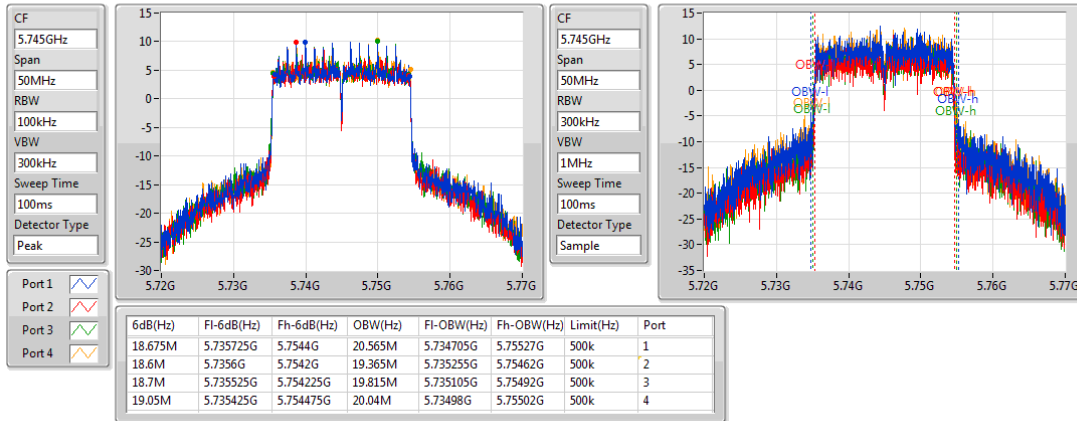


802.11ax HEW20_Nss4,(MCS0)_4TX

EBW

5745MHz

24/01/2019

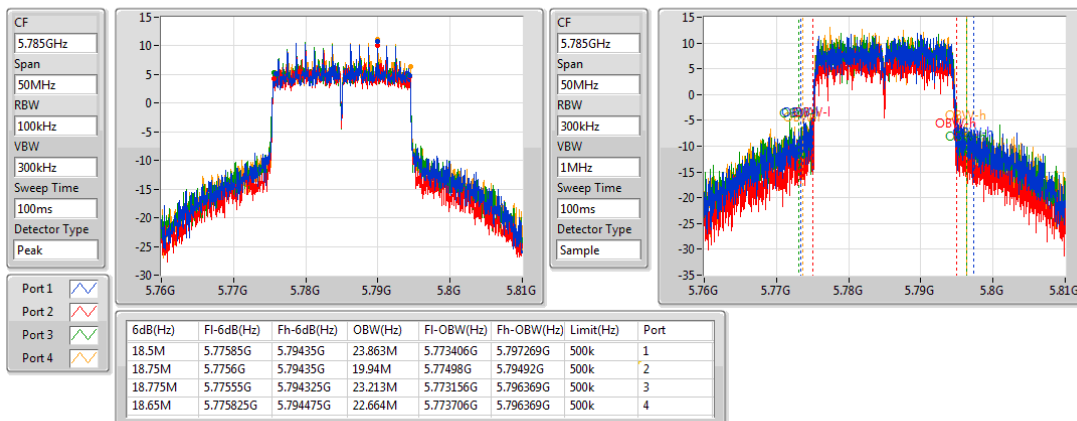


802.11ax HEW20_Nss4,(MCS0)_4TX

EBW

5785MHz

24/01/2019

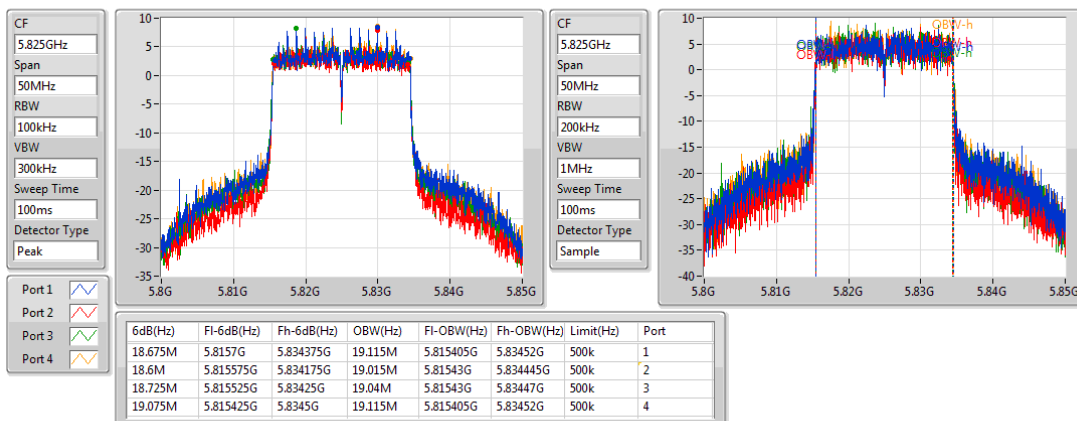


802.11ax HEW20_Nss4,(MCS0)_4TX

EBW

5825MHz

24/01/2019

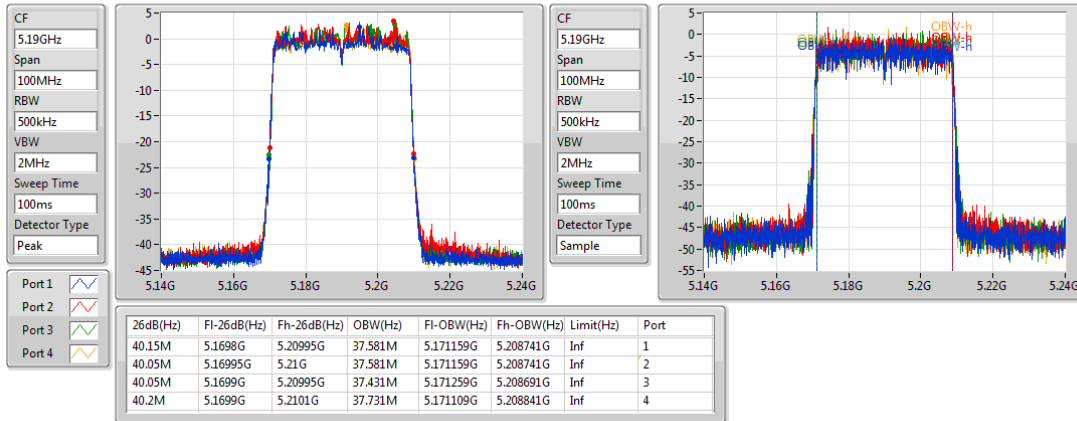


802.11ax HEW40_Nss4,(MCS0)_4TX

EBW

5190MHz

24/01/2019

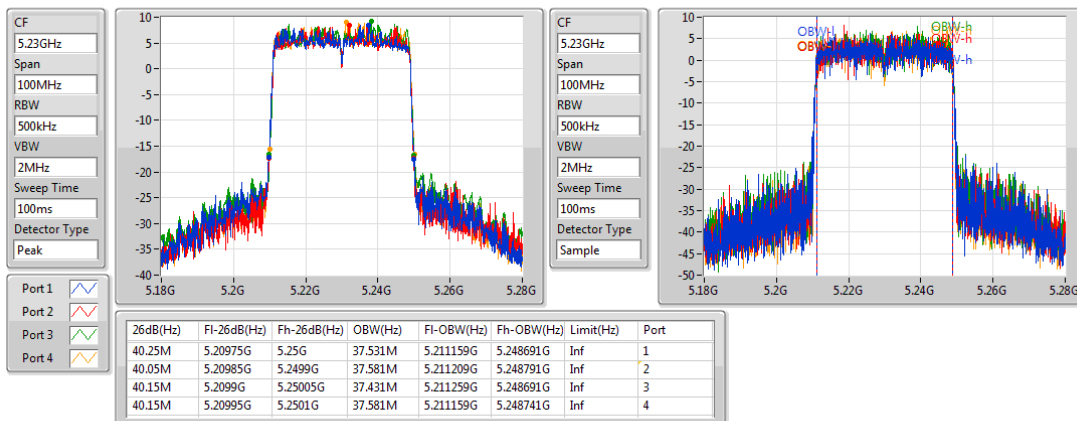


802.11ax HEW40_Nss4,(MCS0)_4TX

EBW

5230MHz

24/01/2019

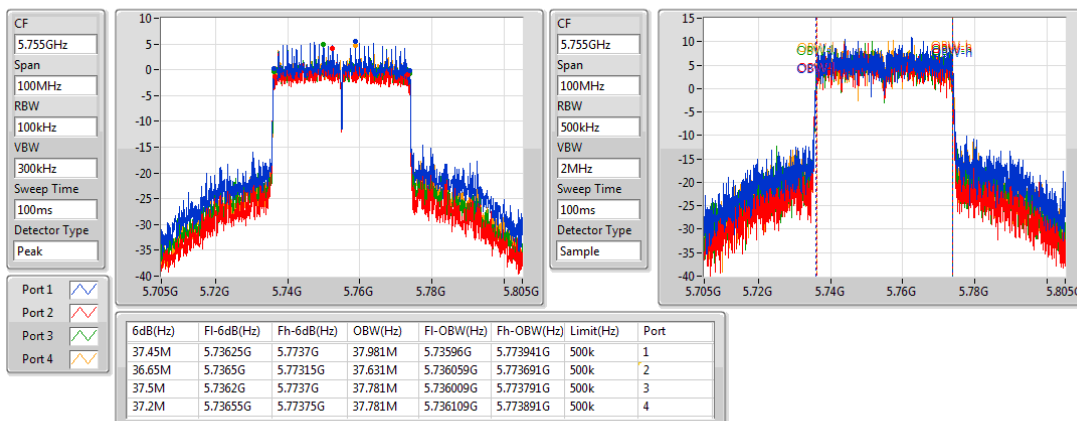


802.11ax HEW40_Nss4,(MCS0)_4TX

EBW

5755MHz

24/01/2019

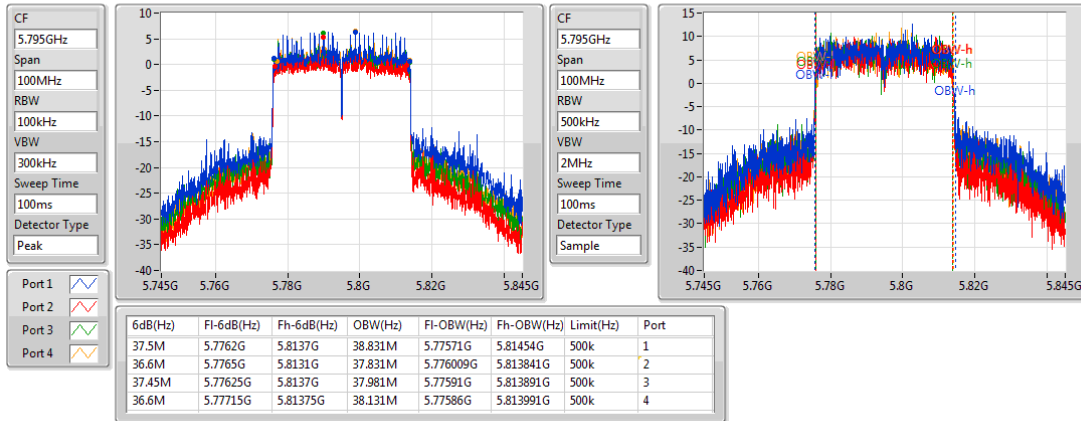


802.11ax HEW40_Nss4,(MCS0)_4TX

EBW

5795MHz

24/01/2019

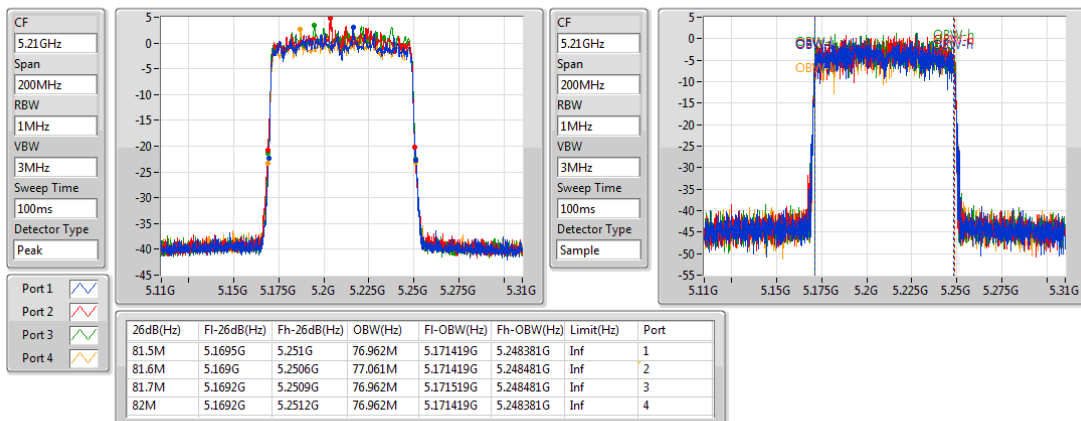


802.11ax HEW80_Nss4,(MCS0)_4TX

EBW

5210MHz

24/01/2019

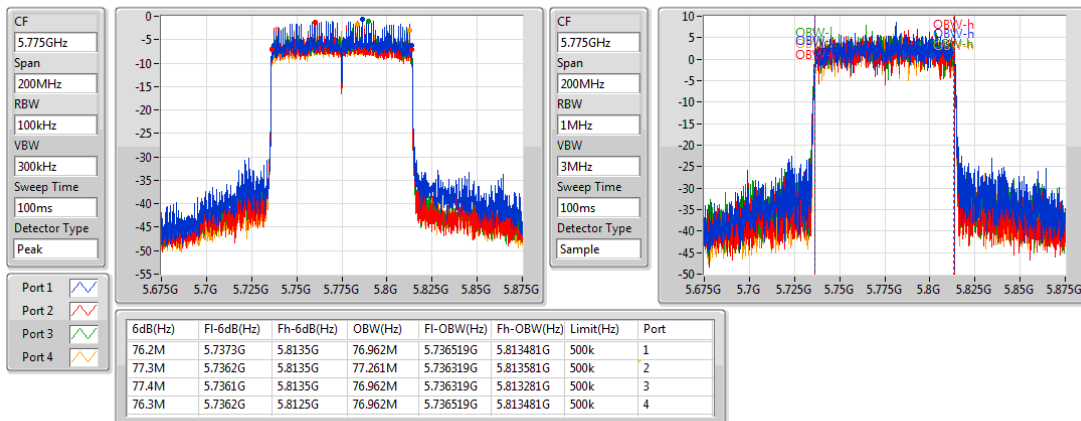


802.11ax HEW80_Nss4,(MCS0)_4TX

EBW

5775MHz

24/01/2019



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	38.3M	16.717M	16M7D1D	25.9M	16.617M
802.11ax HEW20_Nss1,(MCS0)_1TX	42.6M	19.29M	19M3D1D	24.625M	18.991M
802.11ax HEW40_Nss1,(MCS0)_1TX	75.3M	37.881M	37M9D1D	39.9M	37.581M
802.11ax HEW80_Nss1,(MCS0)_1TX	81.6M	77.061M	77M1D1D	81.6M	77.061M
5.725-5.85GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	16.325M	36.157M	36M2D1D	16.275M	26.062M
802.11ax HEW20_Nss1,(MCS0)_1TX	18.875M	26.787M	26M8D1D	18.725M	19.29M
802.11ax HEW40_Nss1,(MCS0)_1TX	37.4M	63.318M	63M3D1D	36.7M	61.769M
802.11ax HEW80_Nss1,(MCS0)_1TX	76.6M	78.261M	78M3D1D	76.6M	78.261M

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	25.9M	16.617M
5200MHz	Pass	Inf	38.3M	16.717M
5240MHz	Pass	Inf	27.325M	16.642M
5745MHz	Pass	500k	16.3M	26.062M
5785MHz	Pass	500k	16.325M	36.157M
5825MHz	Pass	500k	16.275M	34.583M
802.11ax HEW20_Nss1,(MCS0)_1TX	-	-	-	-
5180MHz	Pass	Inf	24.625M	18.991M
5200MHz	Pass	Inf	42.6M	19.29M
5240MHz	Pass	Inf	40.525M	19.09M
5745MHz	Pass	500k	18.875M	19.29M
5785MHz	Pass	500k	18.725M	26.787M
5825MHz	Pass	500k	18.85M	24.538M
802.11ax HEW40_Nss1,(MCS0)_1TX	-	-	-	-
5190MHz	Pass	Inf	39.9M	37.581M
5230MHz	Pass	Inf	75.3M	37.881M
5755MHz	Pass	500k	37.4M	61.769M
5795MHz	Pass	500k	36.7M	63.318M
802.11ax HEW80_Nss1,(MCS0)_1TX	-	-	-	-
5210MHz	Pass	Inf	81.6M	77.061M
5775MHz	Pass	500k	76.6M	78.261M

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

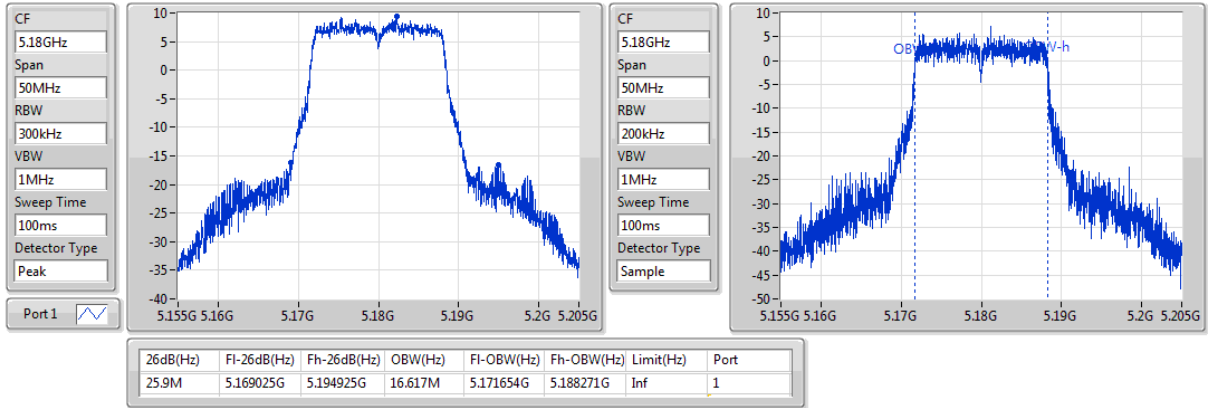
Port X-OBW = Port X 99% occupied bandwidth;

802.11a_Nss1,(6Mbps)_1TX

EBW

5180MHz

01/02/2019

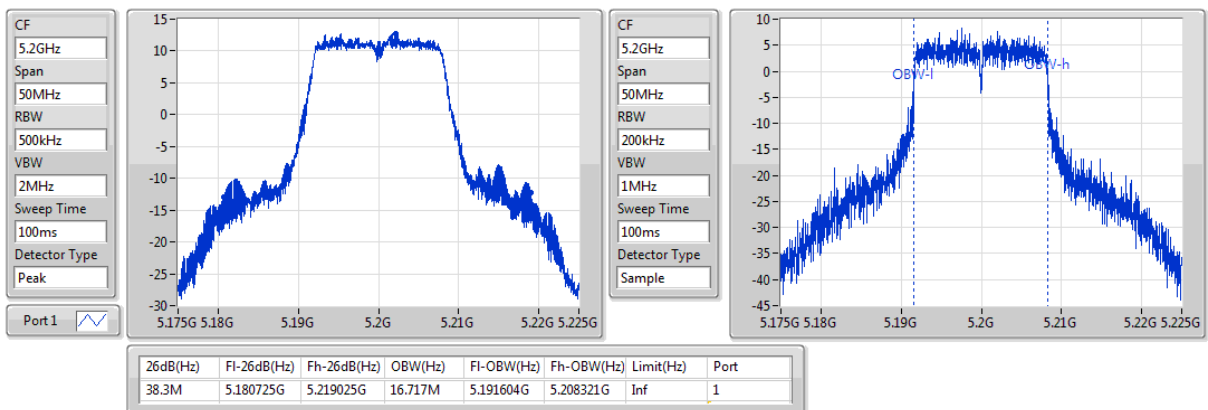


802.11a_Nss1,(6Mbps)_1TX

EBW

5200MHz

01/02/2019

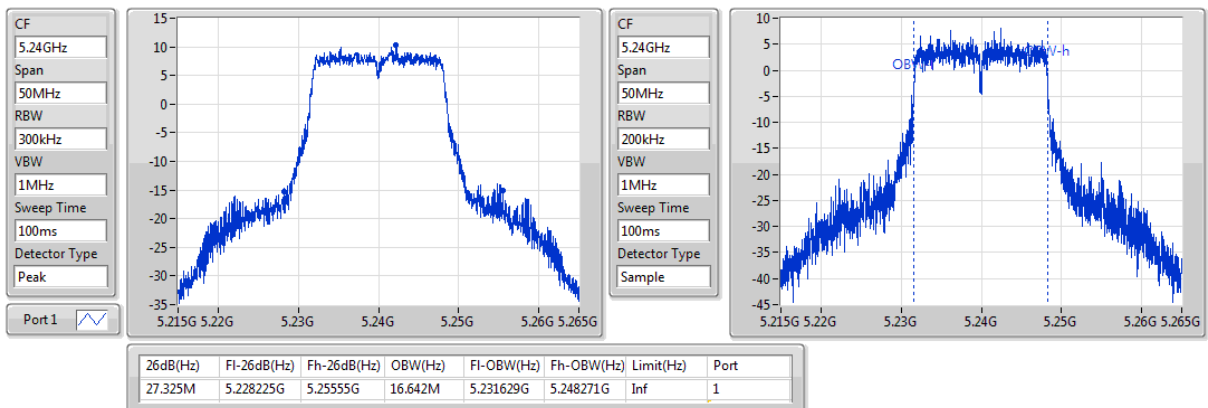


802.11a_Nss1,(6Mbps)_1TX

EBW

5240MHz

01/02/2019

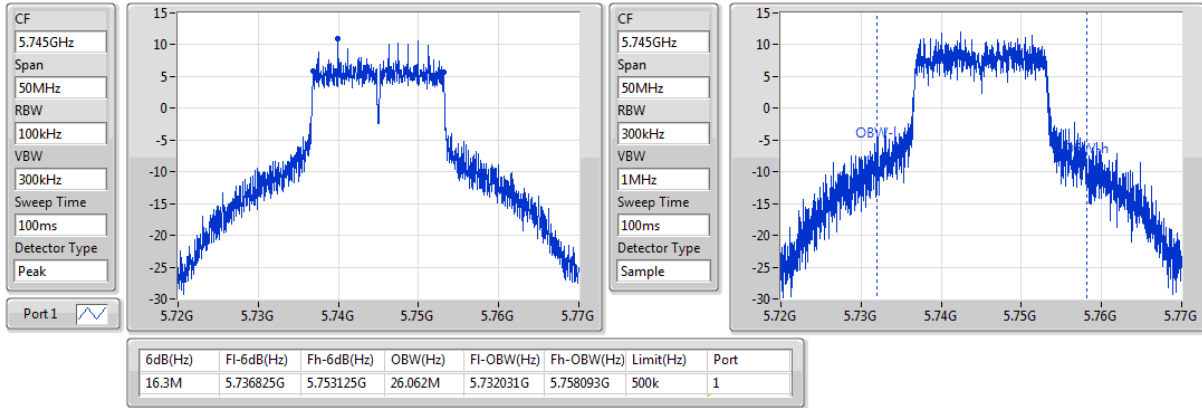


802.11a_Nss1,(6Mbps)_1TX

EBW

5745MHz

01/02/2019

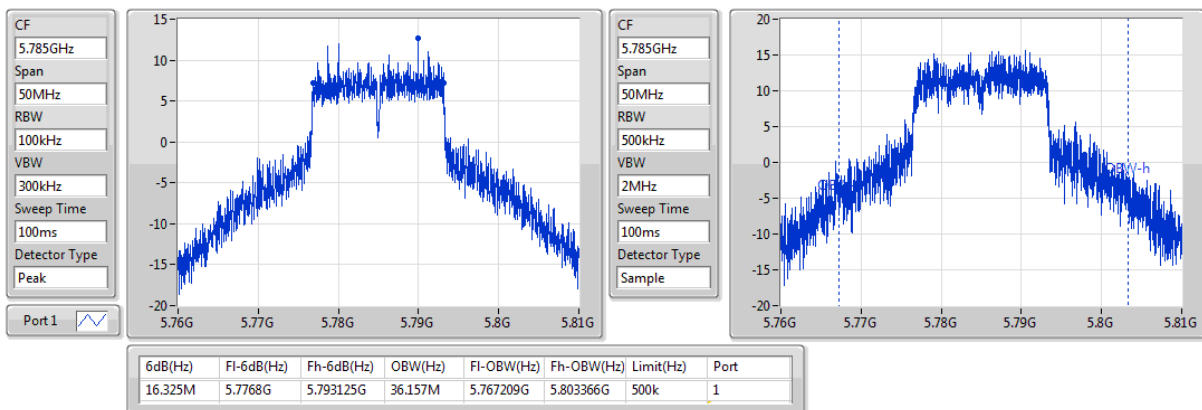


802.11a_Nss1,(6Mbps)_1TX

EBW

5785MHz

01/02/2019

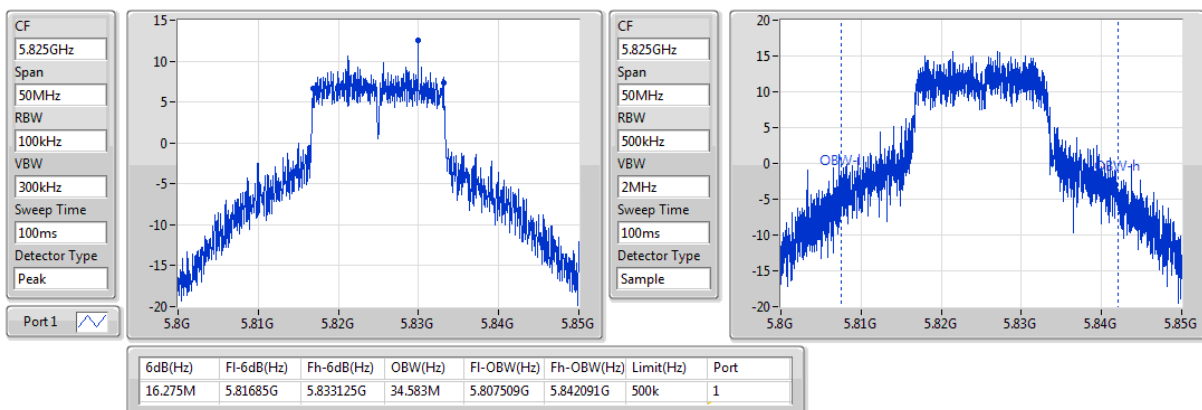


802.11a_Nss1,(6Mbps)_1TX

EBW

5825MHz

01/02/2019

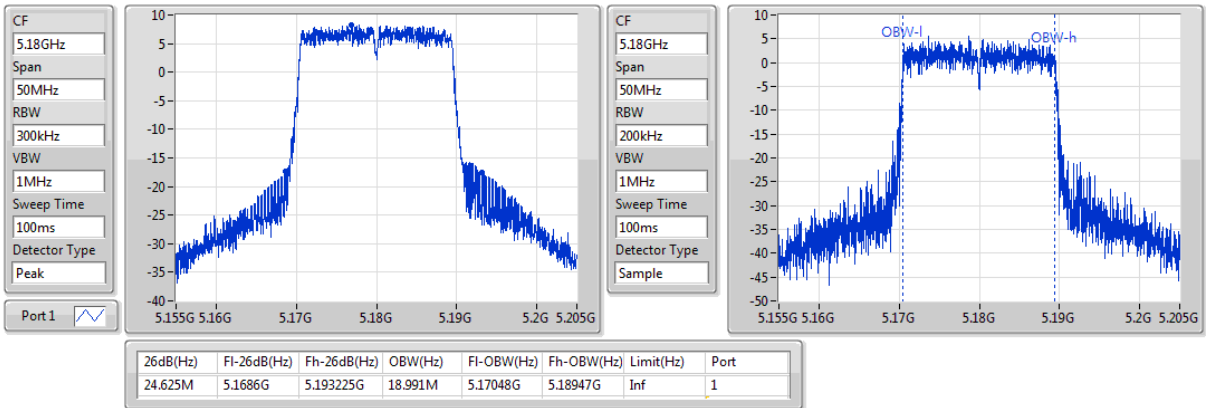


802.11ax HEW20_Nss1,(MCS0)_1TX

EBW

5180MHz

01/02/2019

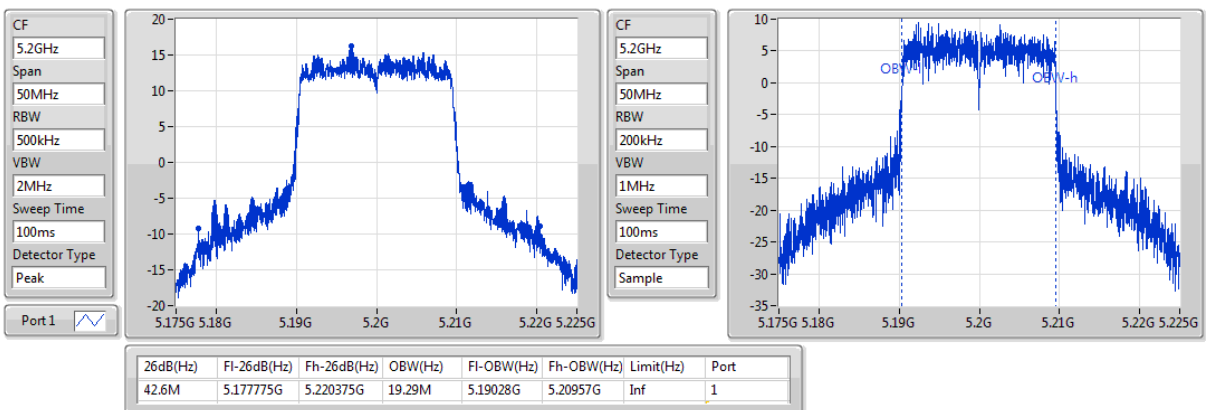


802.11ax HEW20_Nss1,(MCS0)_1TX

EBW

5200MHz

01/02/2019

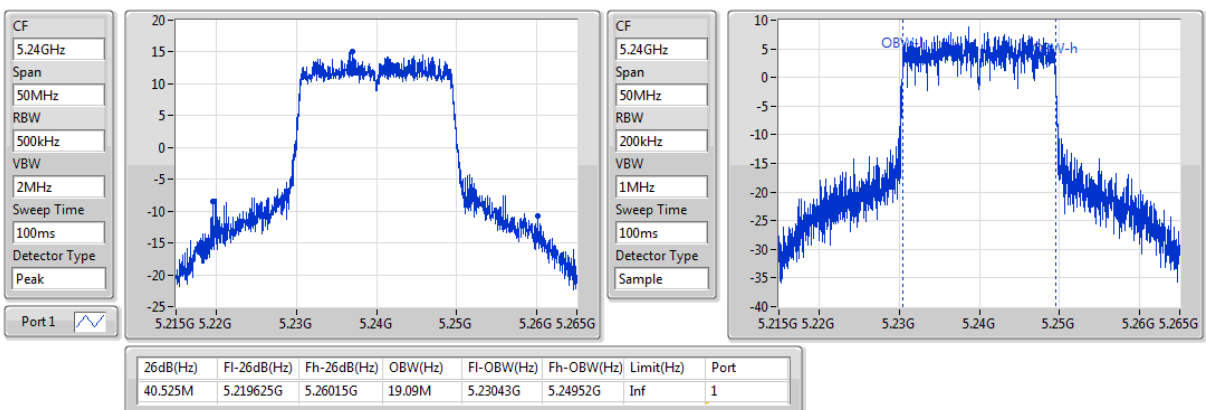


802.11ax HEW20_Nss1,(MCS0)_1TX

EBW

5240MHz

01/02/2019

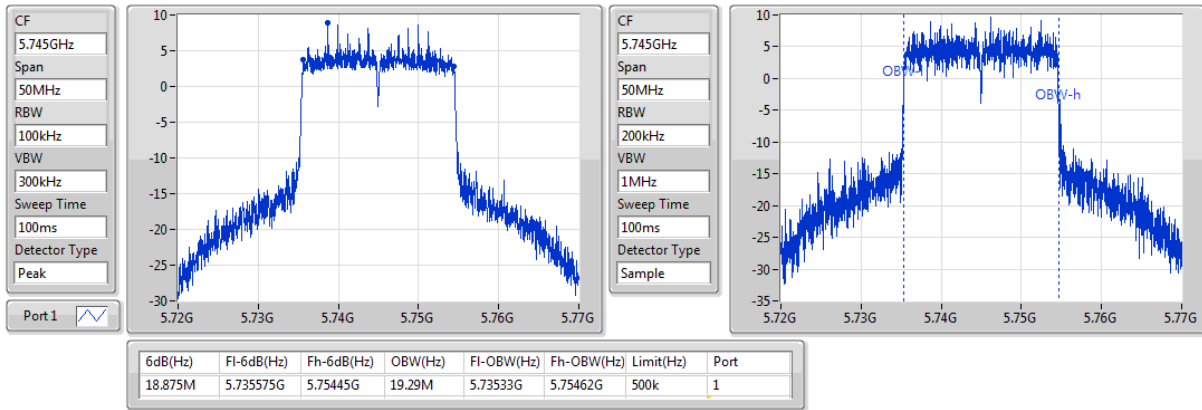


802.11ax HEW20_Nss1,(MCS0)_1TX

EBW

5745MHz

01/02/2019

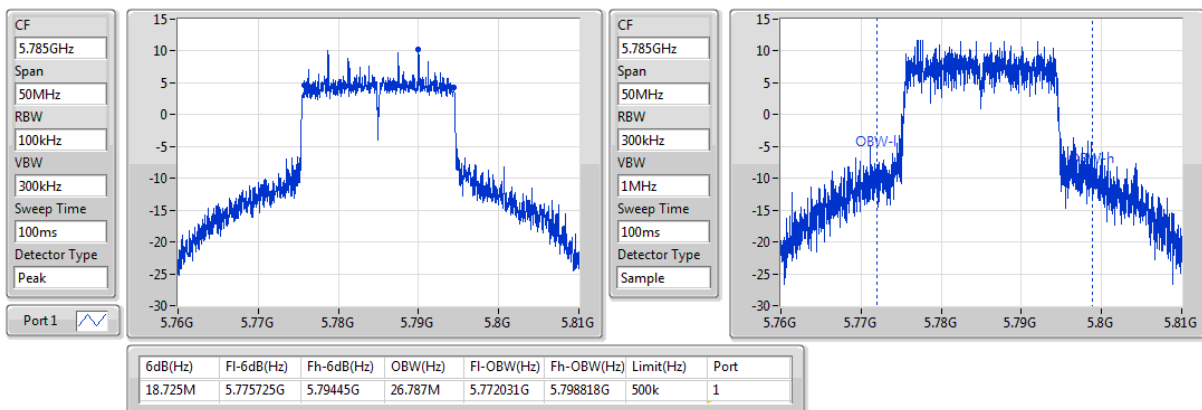


802.11ax HEW20_Nss1,(MCS0)_1TX

EBW

5785MHz

01/02/2019

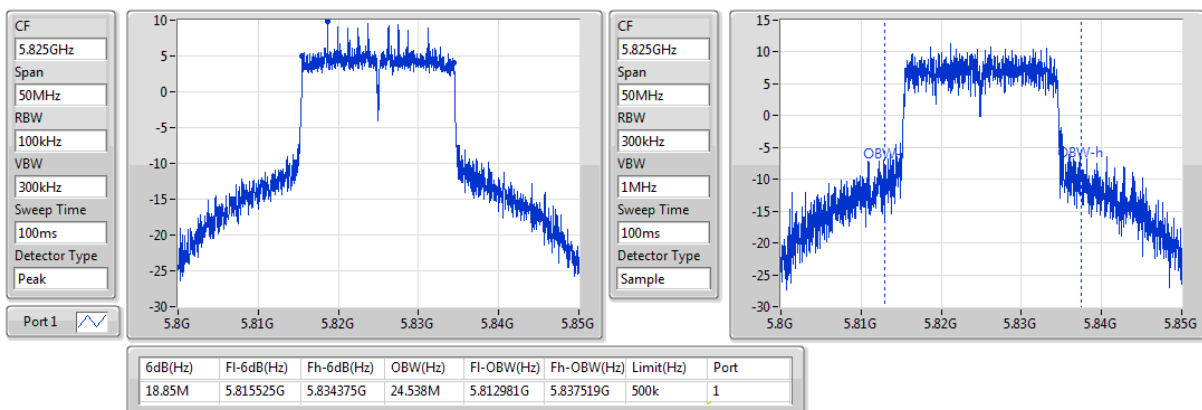


802.11ax HEW20_Nss1,(MCS0)_1TX

EBW

5825MHz

01/02/2019

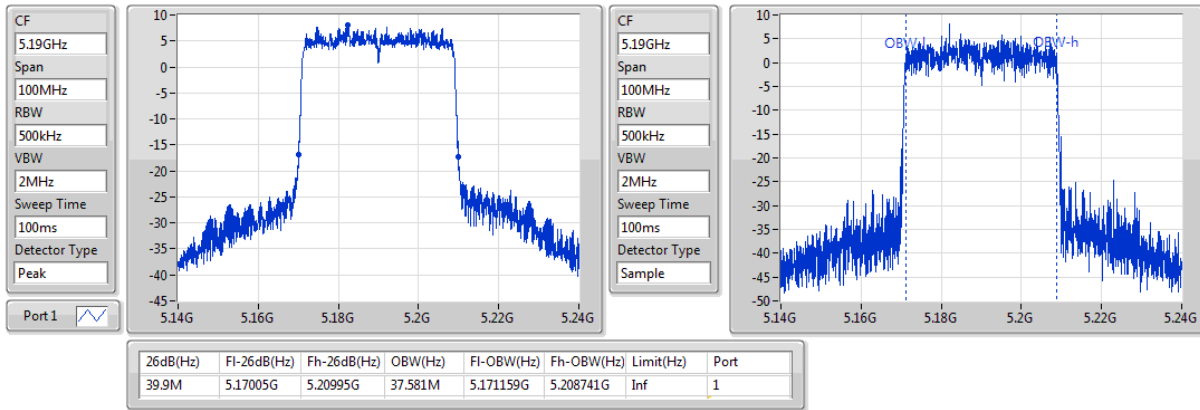


802.11ax HEW40_Nss1,(MCS0)_1TX

EBW

5190MHz

01/02/2019

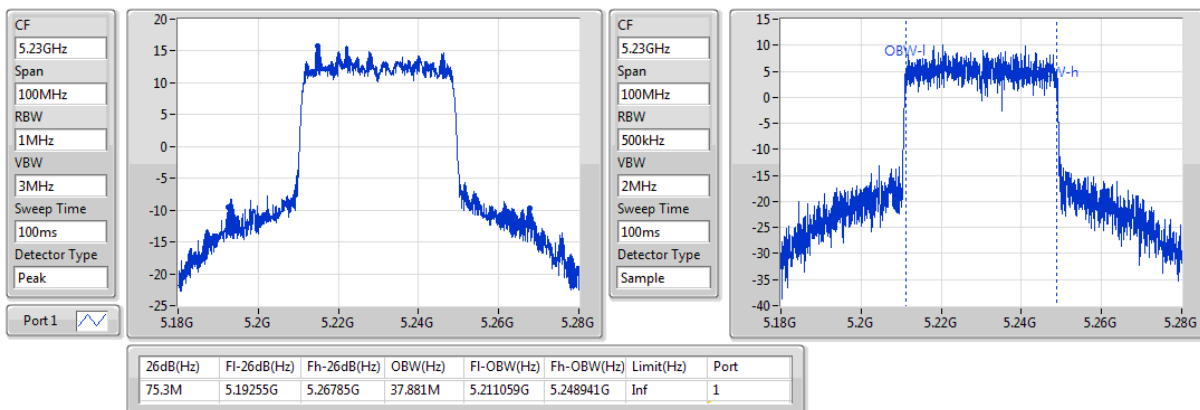


802.11ax HEW40_Nss1,(MCS0)_1TX

EBW

5230MHz

01/02/2019

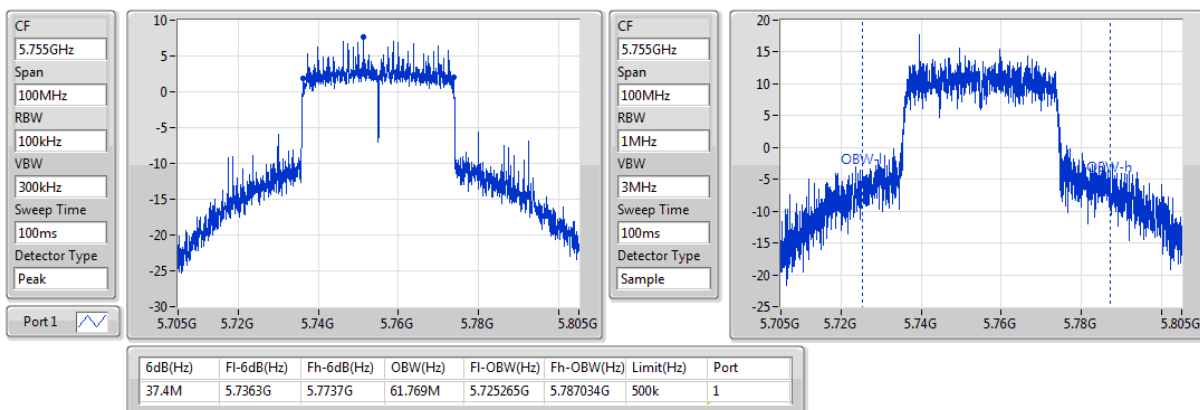


802.11ax HEW40_Nss1,(MCS0)_1TX

EBW

5755MHz

01/02/2019

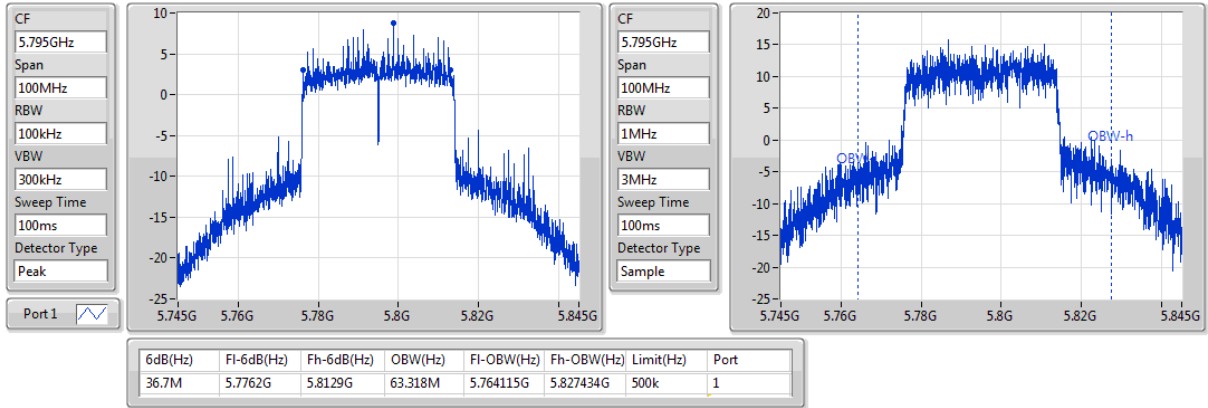


802.11ax HEW40_Nss1,(MCS0)_1TX

EBW

5795MHz

01/02/2019

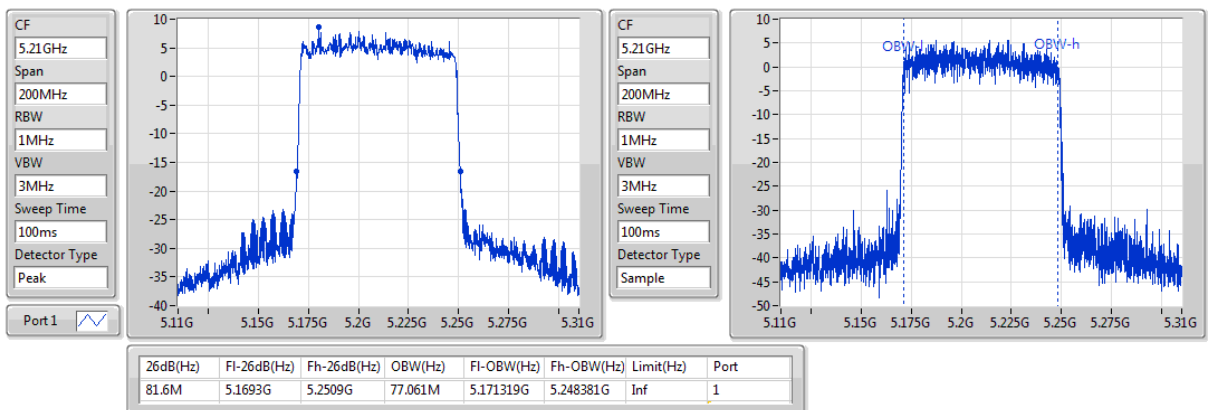


802.11ax HEW80_Nss1,(MCS0)_1TX

EBW

5210MHz

01/02/2019

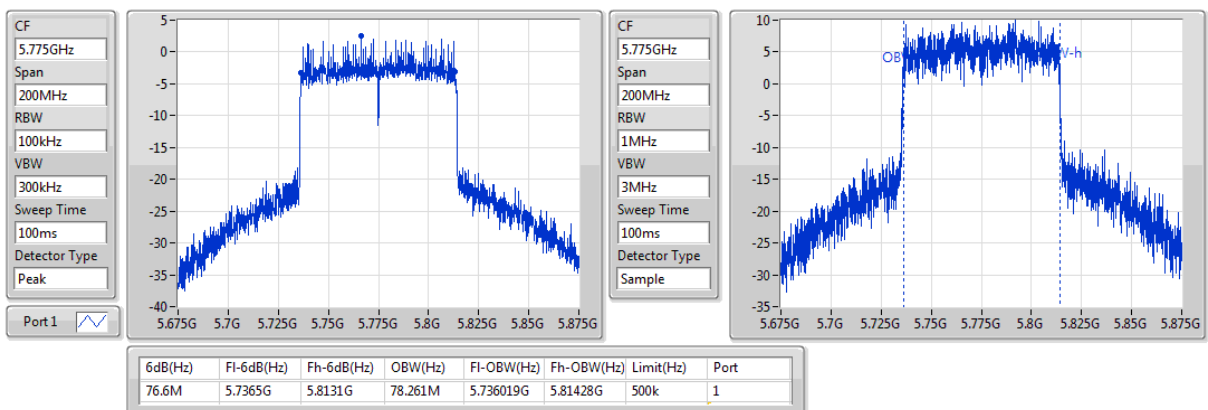


802.11ax HEW80_Nss1,(MCS0)_1TX

EBW

5775MHz

01/02/2019





EBW Result_Radio 2

Appendix B.42

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	38M	19.115M	19M1D1D	21.625M	18.966M
802.11ax HEW40_Nss2,(MCS0)_2TX	43.3M	37.681M	37M7D1D	39.9M	37.481M
802.11ax HEW80_Nss2,(MCS0)_2TX	81.5M	76.962M	77M0D1D	81.1M	76.862M
5.725-5.85GHz	-	-	-	-	-
802.11ax HEW20_Nss2,(MCS0)_2TX	18.825M	24.813M	24M8D1D	18.6M	19.165M
802.11ax HEW40_Nss2,(MCS0)_2TX	37.3M	60.12M	60M1D1D	36.65M	40.73M
802.11ax HEW80_Nss2,(MCS0)_2TX	76.9M	77.261M	77M3D1D	75.3M	77.161M

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 2

Appendix B.42

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	22.075M	18.966M	21.625M	18.966M
5200MHz	Pass	Inf	33.425M	19.065M	37.05M	19.015M
5240MHz	Pass	Inf	38M	19.115M	36.325M	19.04M
5745MHz	Pass	500k	18.675M	19.215M	18.725M	19.165M
5785MHz	Pass	500k	18.775M	24.588M	18.825M	20.715M
5825MHz	Pass	500k	18.725M	24.813M	18.6M	20.815M
802.11ax HEW40_Nss2,(MCS0)_2TX	-	-	-	-	-	-
5190MHz	Pass	Inf	39.9M	37.581M	40M	37.481M
5230MHz	Pass	Inf	43.3M	37.681M	40.2M	37.631M
5755MHz	Pass	500k	36.65M	56.522M	37.3M	40.73M
5795MHz	Pass	500k	36.65M	60.12M	37.3M	46.227M
802.11ax HEW80_Nss2,(MCS0)_2TX	-	-	-	-	-	-
5210MHz	Pass	Inf	81.5M	76.962M	81.1M	76.862M
5775MHz	Pass	500k	76.9M	77.261M	75.3M	77.161M

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

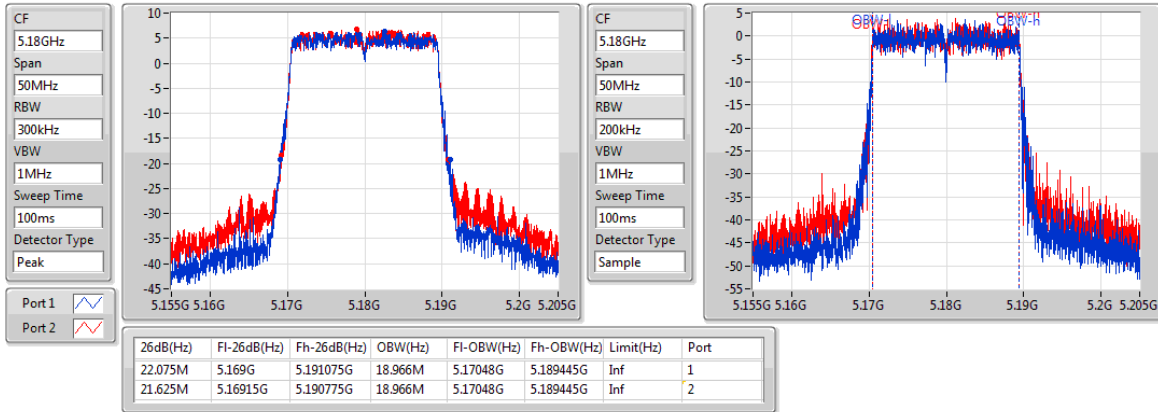
Port X-OBW = Port X 99% occupied bandwidth;

802.11ax HEW20_Nss2,(MCS0)_2TX

EBW

5180MHz

01/02/2019

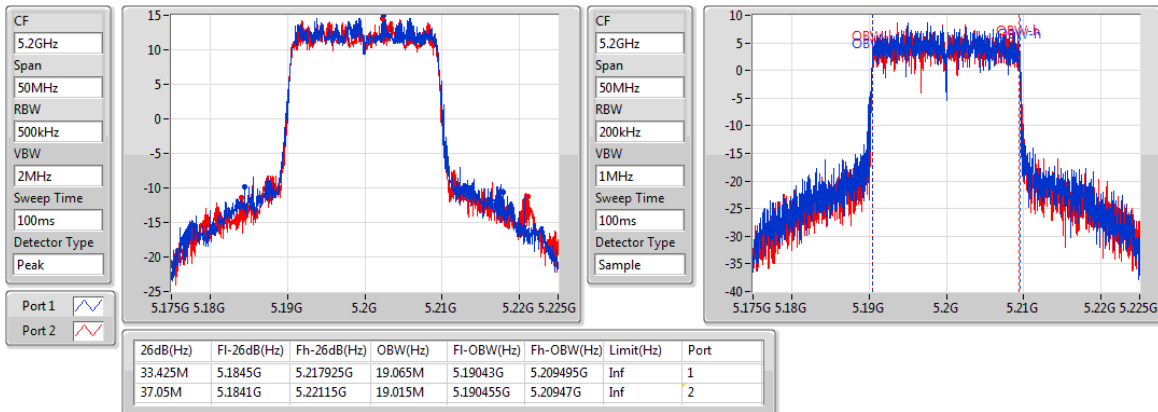


802.11ax HEW20_Nss2,(MCS0)_2TX

EBW

5200MHz

01/02/2019

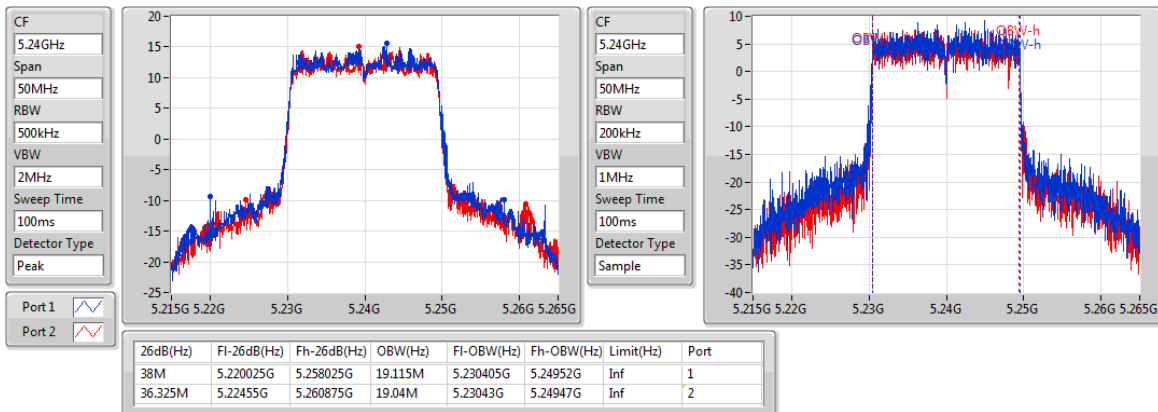


802.11ax HEW20_Nss2,(MCS0)_2TX

EBW

5240MHz

01/02/2019

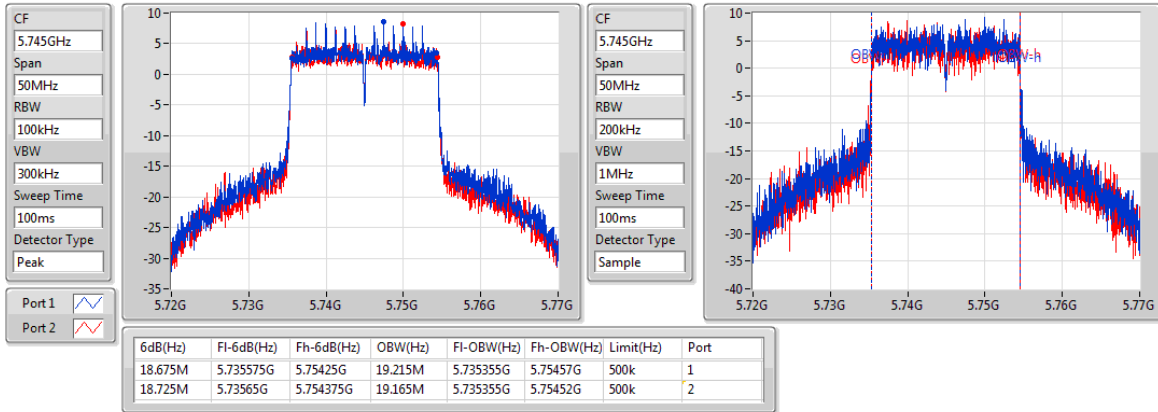


802.11ax HEW20_Nss2,(MCS0)_2TX

EBW

5745MHz

01/02/2019

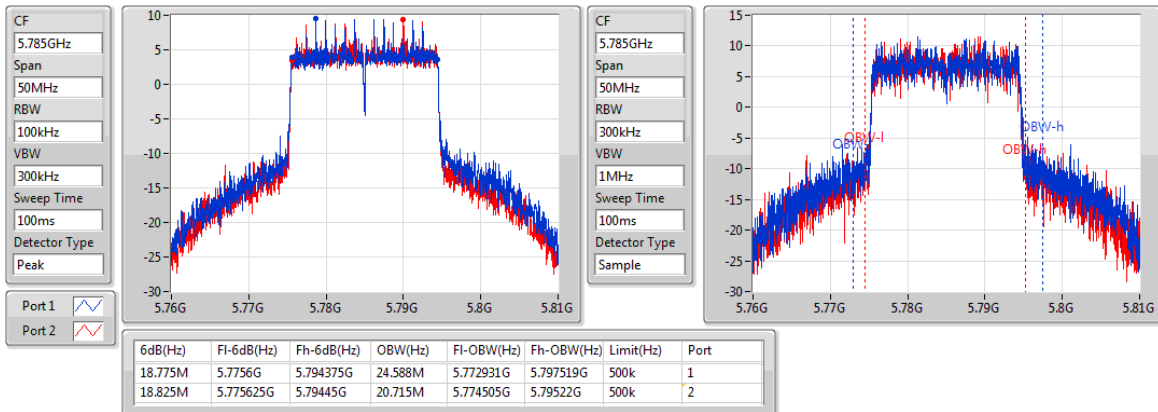


802.11ax HEW20_Nss2,(MCS0)_2TX

EBW

5785MHz

01/02/2019

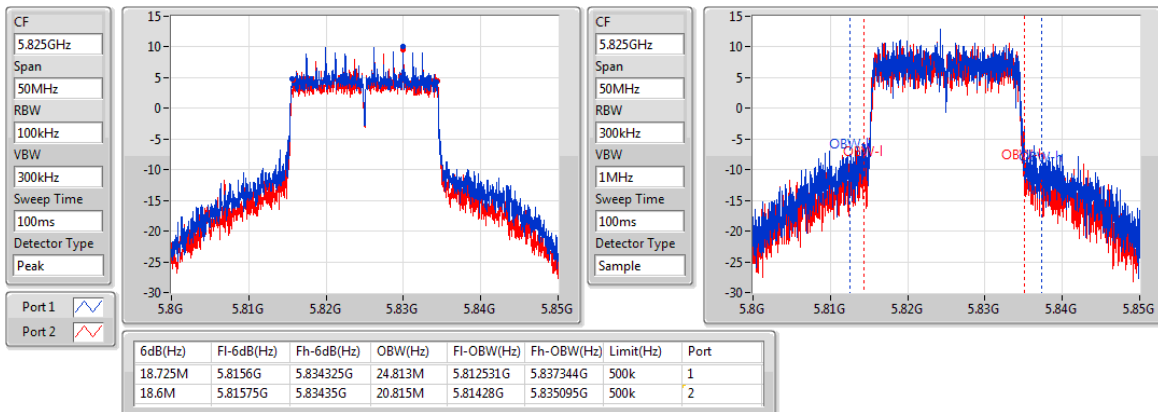


802.11ax HEW20_Nss2,(MCS0)_2TX

EBW

5825MHz

01/02/2019

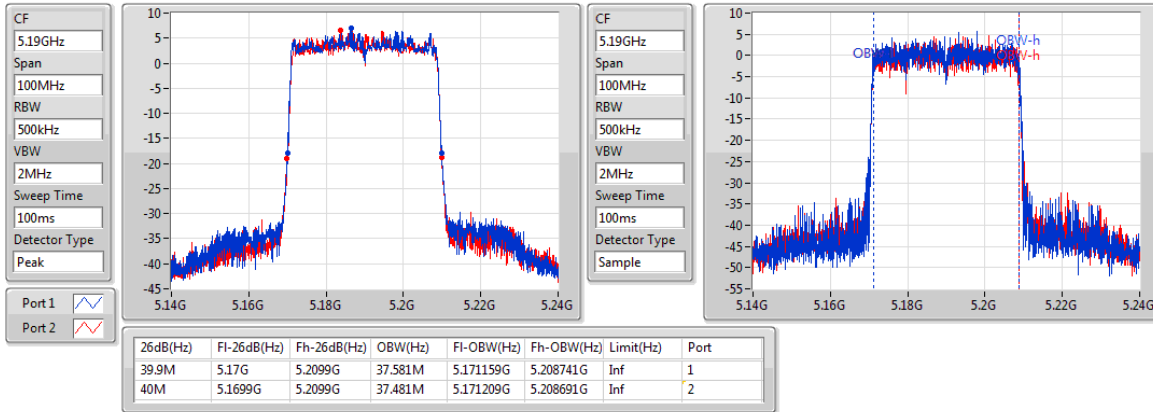


802.11ax HEW40_Nss2,(MCS0)_2TX

EBW

5190MHz

01/02/2019

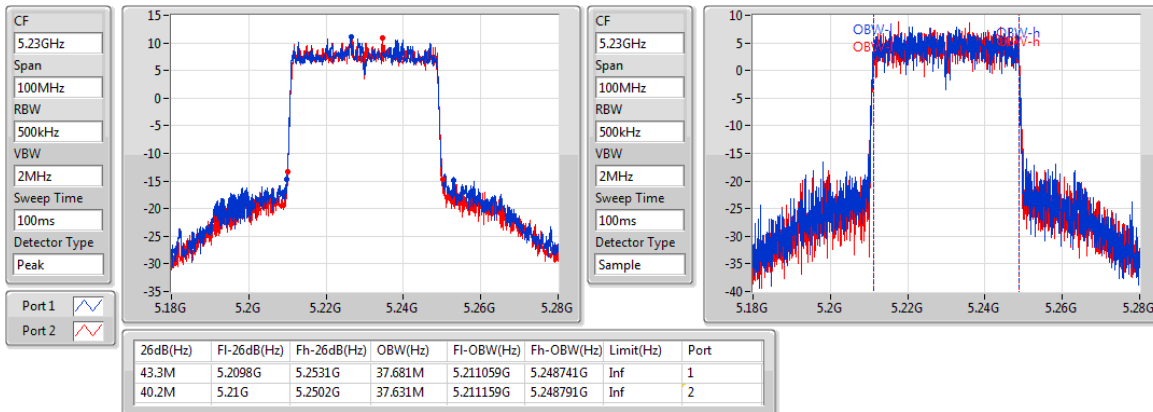


802.11ax HEW40_Nss2,(MCS0)_2TX

EBW

5230MHz

01/02/2019

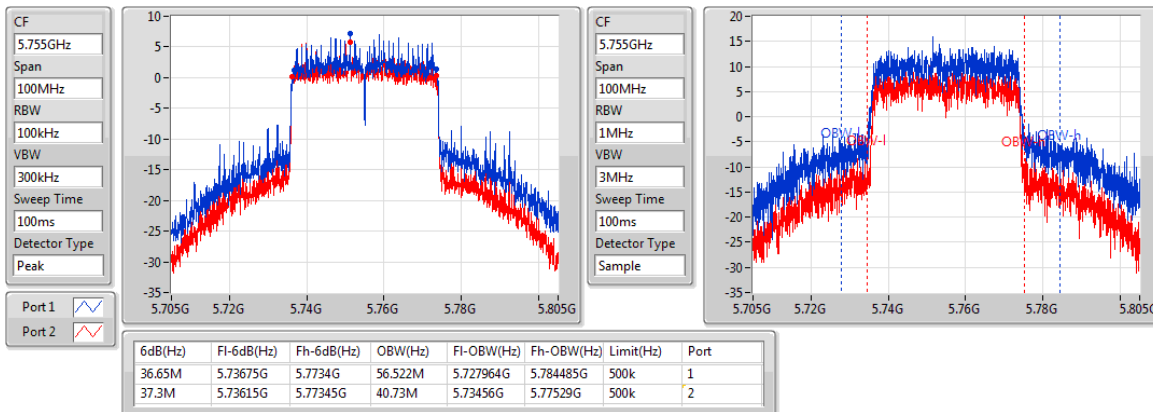


802.11ax HEW40_Nss2,(MCS0)_2TX

EBW

5755MHz

01/02/2019

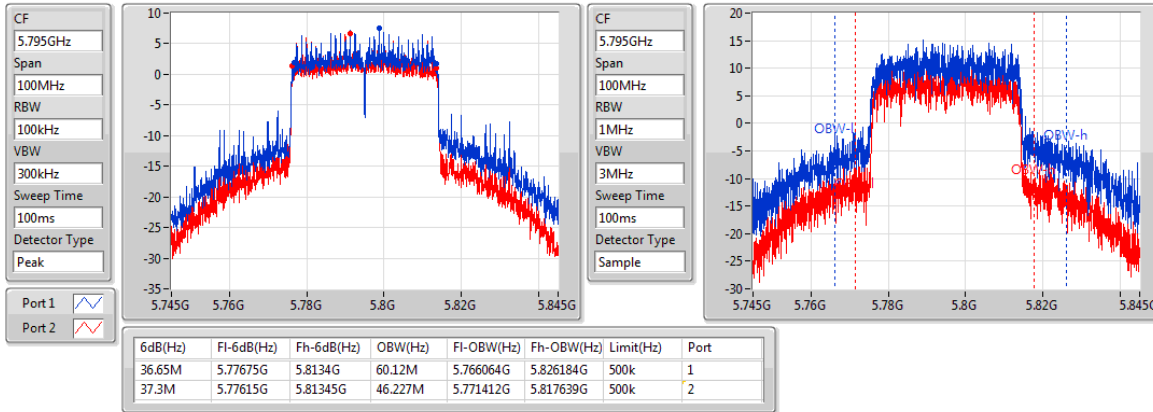


802.11ax HEW40_Nss2,(MCS0)_2TX

EBW

5795MHz

01/02/2019

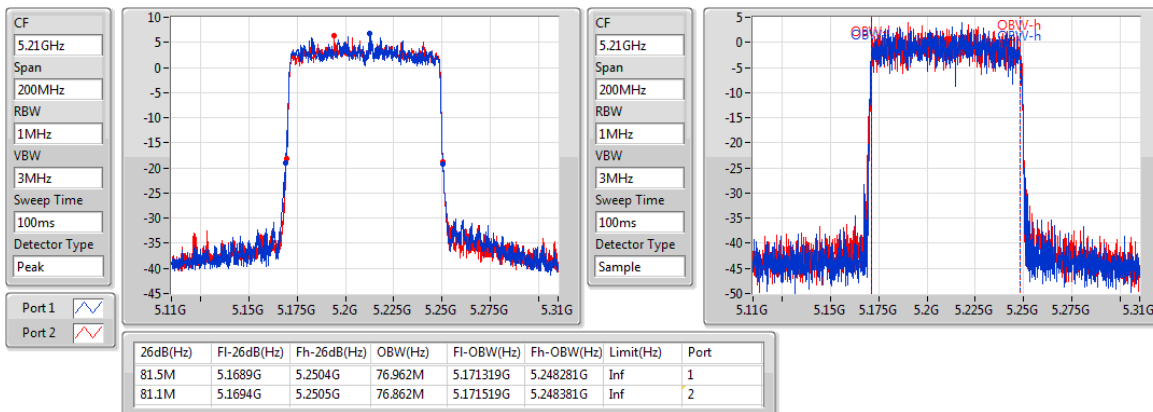


802.11ax HEW80_Nss2,(MCS0)_2TX

EBW

5210MHz

01/02/2019

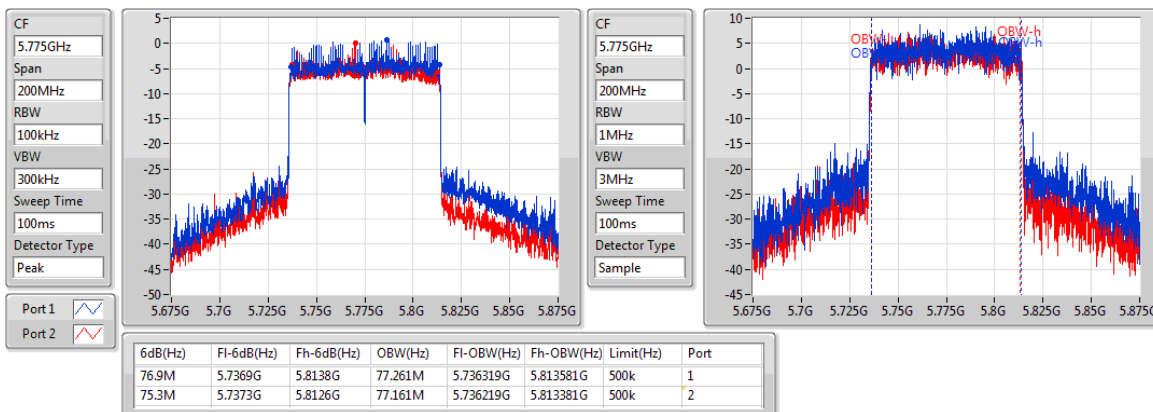


802.11ax HEW80_Nss2,(MCS0)_2TX

EBW

5775MHz

01/02/2019





EBW Result_Radio 2

Appendix B.43

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	21.825M	16.617M	16M6D1D	21.375M	16.492M
802.11ax HEW20_Nss1,(MCS0)_4TX	23.225M	18.991M	19M0D1D	21.325M	18.941M
802.11ax HEW40_Nss1,(MCS0)_4TX	40.75M	37.631M	37M6D1D	39.9M	37.481M
802.11ax HEW80_Nss1,(MCS0)_4TX	81.9M	77.161M	77M2D1D	81.2M	76.762M
5.725-5.85GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	16.35M	23.913M	23M9D1D	16.275M	19.315M
802.11ax HEW20_Nss1,(MCS0)_4TX	18.975M	26.062M	26M1D1D	18.5M	19.14M
802.11ax HEW40_Nss1,(MCS0)_4TX	37.4M	40.83M	40M8D1D	36.9M	37.681M
802.11ax HEW80_Nss1,(MCS0)_4TX	76.9M	77.261M	77M3D1D	76.6M	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	21.5M	16.542M	21.45M	16.617M	21.7M	16.592M	21.5M	16.542M
5200MHz	Pass	Inf	21.45M	16.542M	21.375M	16.542M	21.675M	16.542M	21.425M	16.567M
5240MHz	Pass	Inf	21.45M	16.492M	21.6M	16.567M	21.825M	16.567M	21.5M	16.567M
5745MHz	Pass	500k	16.275M	21.239M	16.3M	20.09M	16.35M	21.789M	16.325M	21.614M
5785MHz	Pass	500k	16.35M	23.013M	16.3M	19.315M	16.3M	22.364M	16.325M	21.164M
5825MHz	Pass	500k	16.325M	23.913M	16.325M	20.815M	16.3M	23.888M	16.3M	23.438M
802.11ax HEW20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	Inf	21.8M	18.966M	21.7M	18.966M	21.75M	18.991M	21.35M	18.941M
5200MHz	Pass	Inf	21.725M	18.941M	21.575M	18.966M	23.225M	18.991M	21.325M	18.941M
5240MHz	Pass	Inf	21.75M	18.991M	22.75M	18.991M	22.75M	18.966M	21.35M	18.966M
5745MHz	Pass	500k	18.7M	19.215M	18.925M	19.165M	18.95M	19.165M	18.975M	19.14M
5785MHz	Pass	500k	18.725M	26.062M	18.675M	19.89M	18.875M	24.188M	18.775M	22.614M
5825MHz	Pass	500k	18.8M	25.687M	18.925M	19.89M	18.5M	24.288M	18.825M	24.088M
802.11ax HEW40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	Inf	39.9M	37.481M	40.2M	37.481M	40.05M	37.481M	40.05M	37.581M
5230MHz	Pass	Inf	40.75M	37.531M	40.1M	37.531M	40.2M	37.631M	40.2M	37.581M
5755MHz	Pass	500k	37.25M	38.031M	37.05M	37.681M	36.95M	37.731M	37.4M	37.881M
5795MHz	Pass	500k	37.35M	40.83M	37M	37.831M	37.2M	37.981M	36.9M	38.031M
802.11ax HEW80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	Inf	81.9M	76.762M	81.4M	76.862M	81.2M	77.061M	81.4M	77.161M
5775MHz	Pass	500k	76.6M	77.261M	76.9M	77.061M	76.8M	77.261M	76.8M	77.161M

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

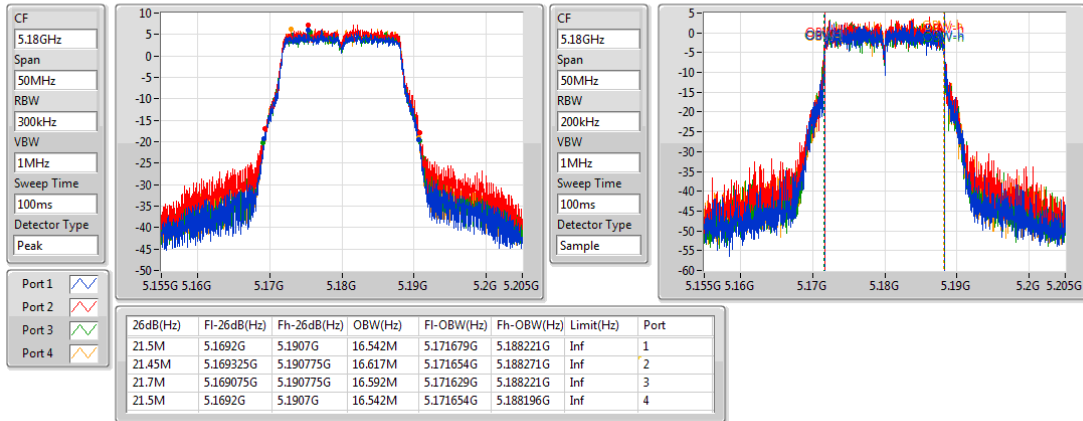
Port X-OBW = Port X 99% occupied bandwidth;

802.11a_Nss1,(6Mbps)_4TX

EBW

5180MHz

01/02/2019

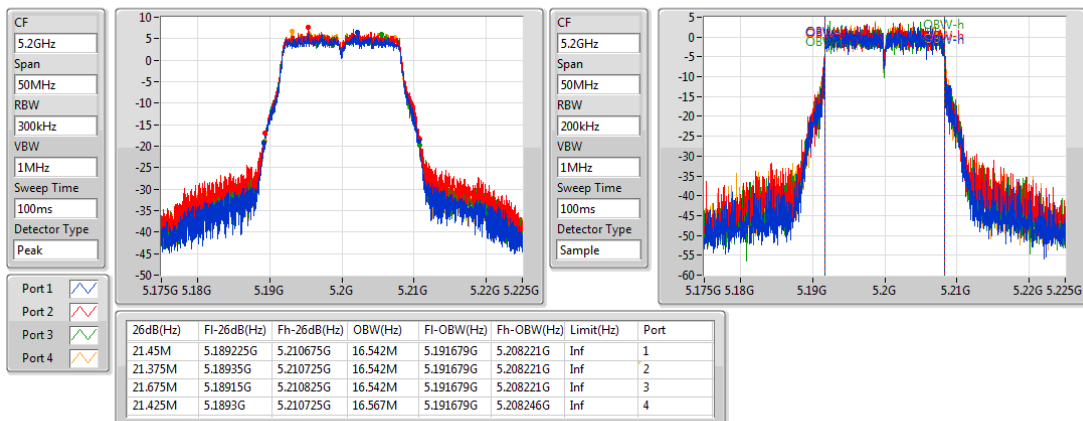


802.11a_Nss1,(6Mbps)_4TX

EBW

5200MHz

01/02/2019

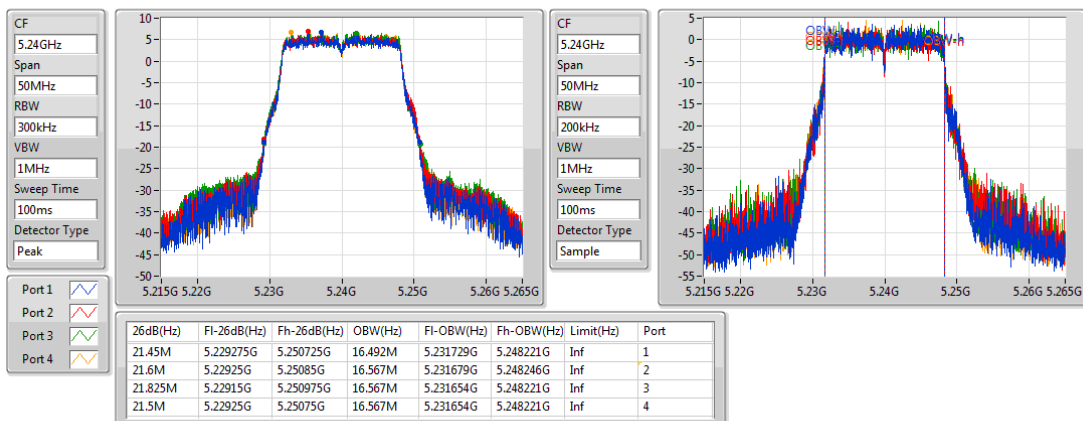


802.11a_Nss1,(6Mbps)_4TX

EBW

5240MHz

01/02/2019

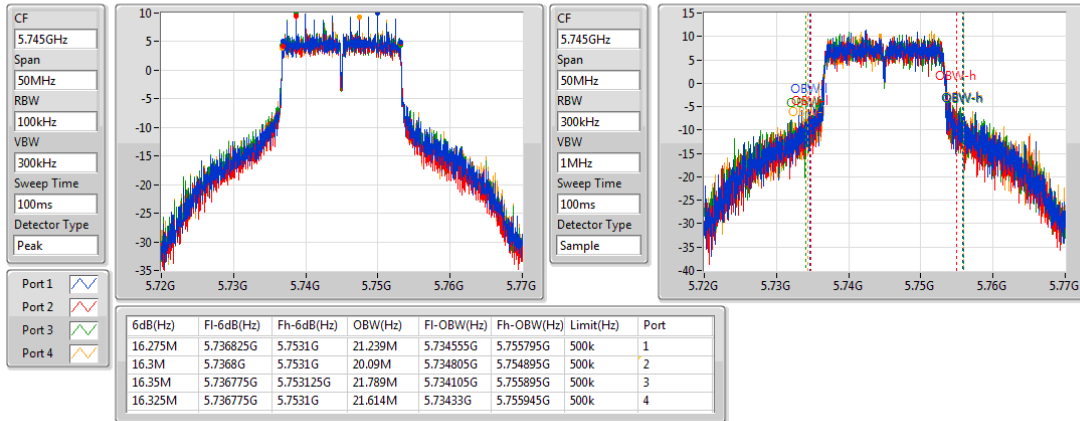


802.11a_Nss1,(6Mbps)_4TX

EBW

5745MHz

01/02/2019

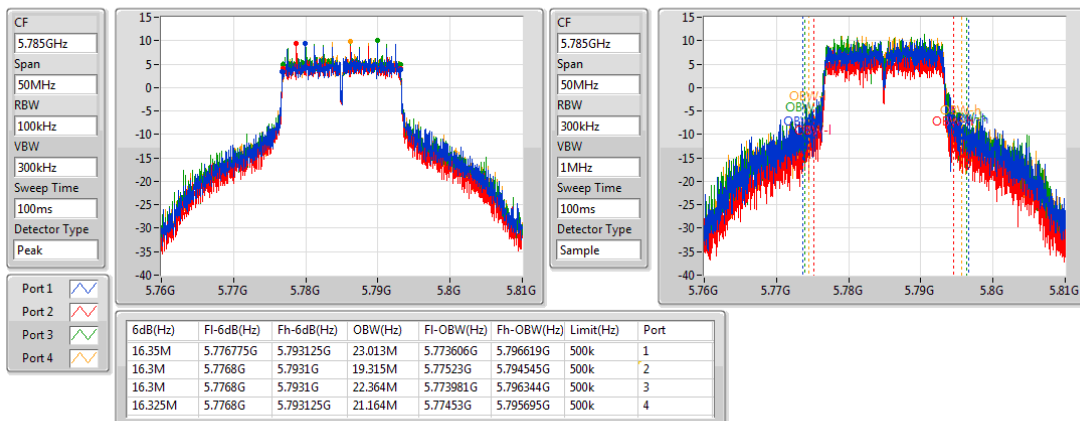


802.11a_Nss1,(6Mbps)_4TX

EBW

5785MHz

01/02/2019

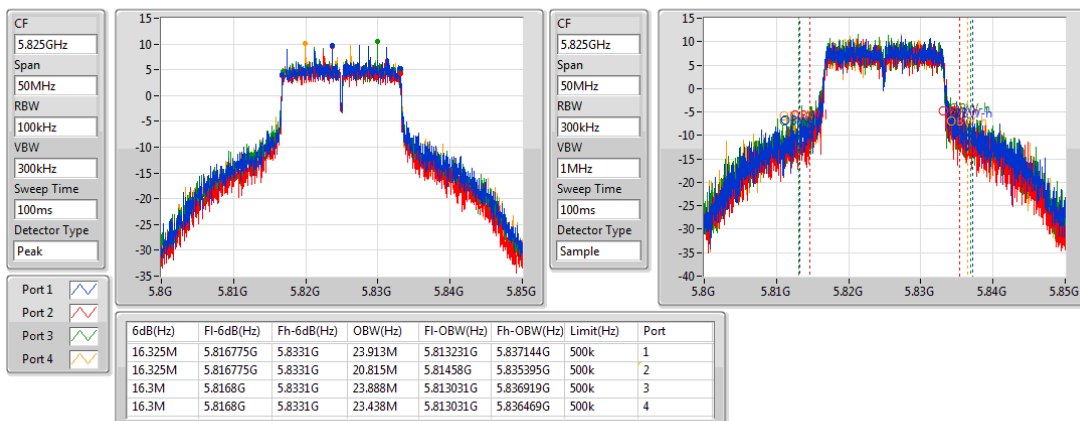


802.11a_Nss1,(6Mbps)_4TX

EBW

5825MHz

01/02/2019

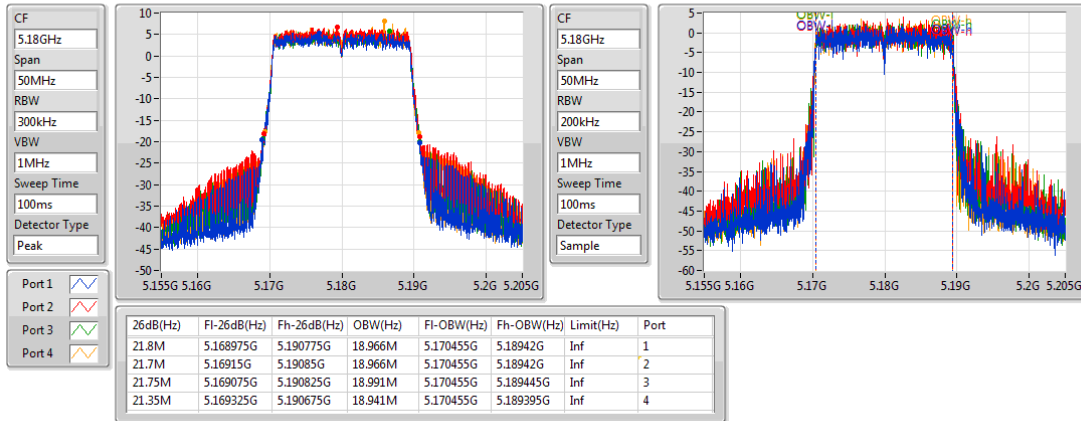


802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

5180MHz

01/02/2019

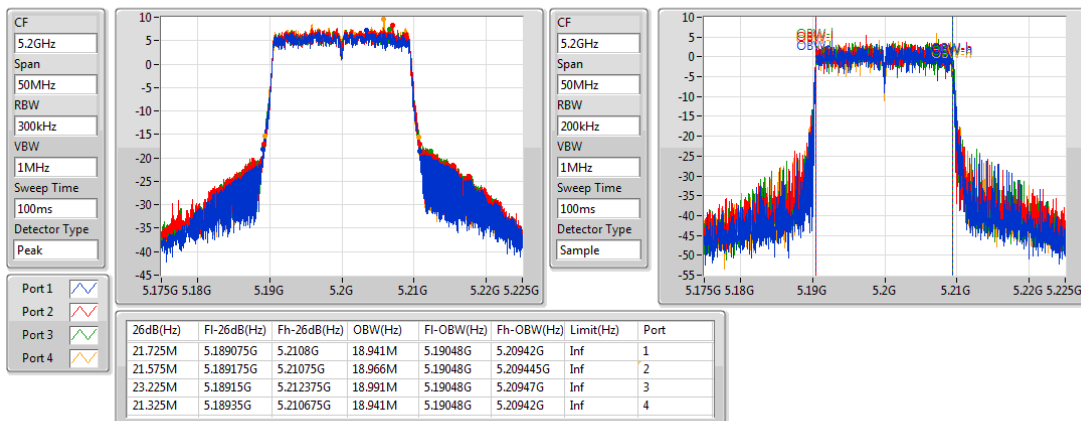


802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

5200MHz

01/02/2019

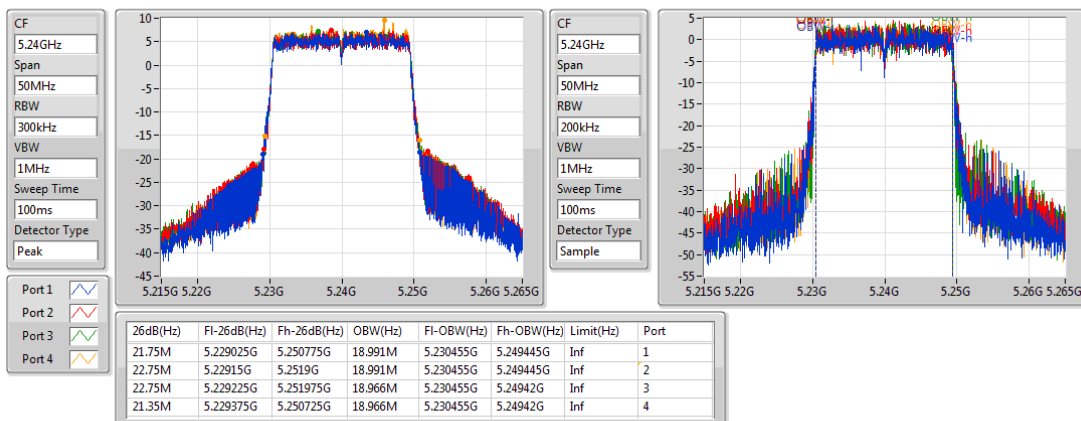


802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

5240MHz

01/02/2019

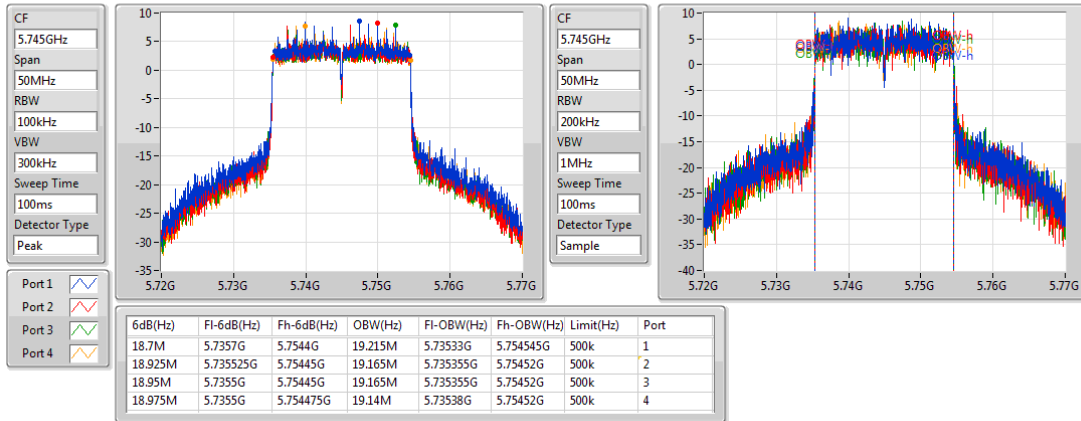


802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

5745MHz

01/02/2019

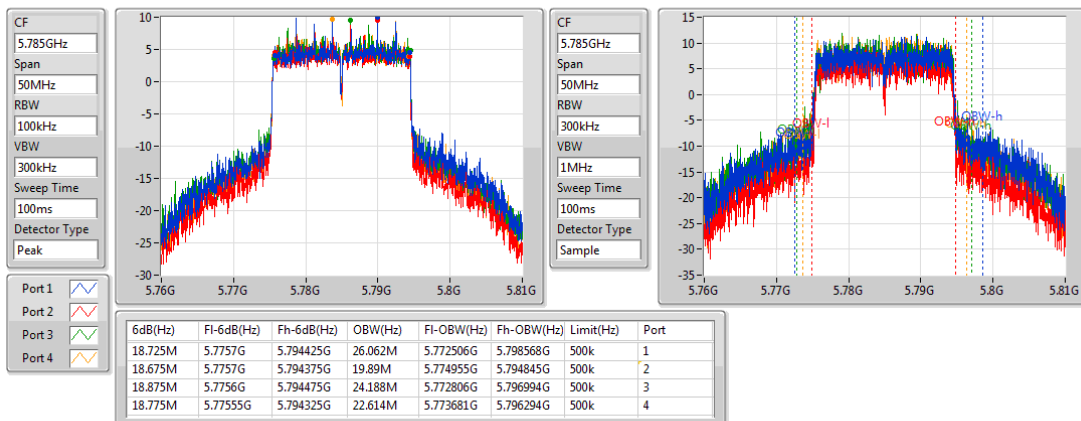


802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

5785MHz

01/02/2019

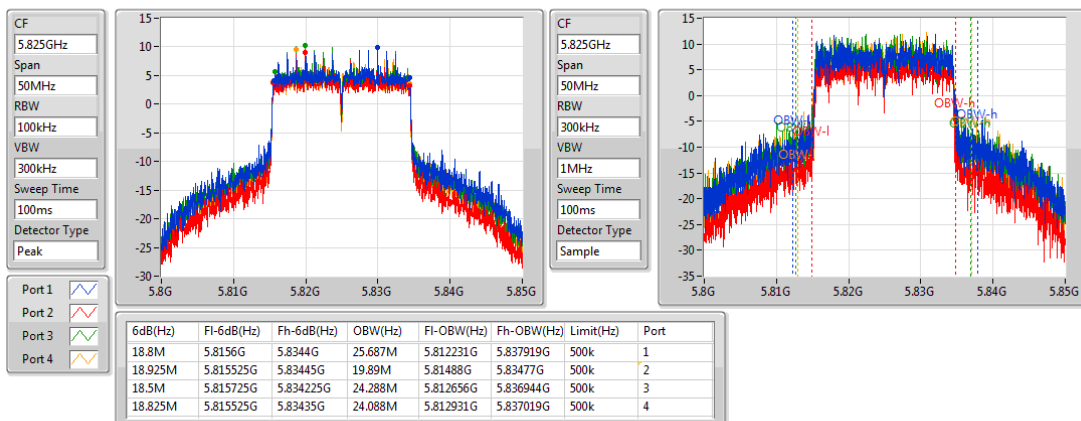


802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

5825MHz

01/02/2019

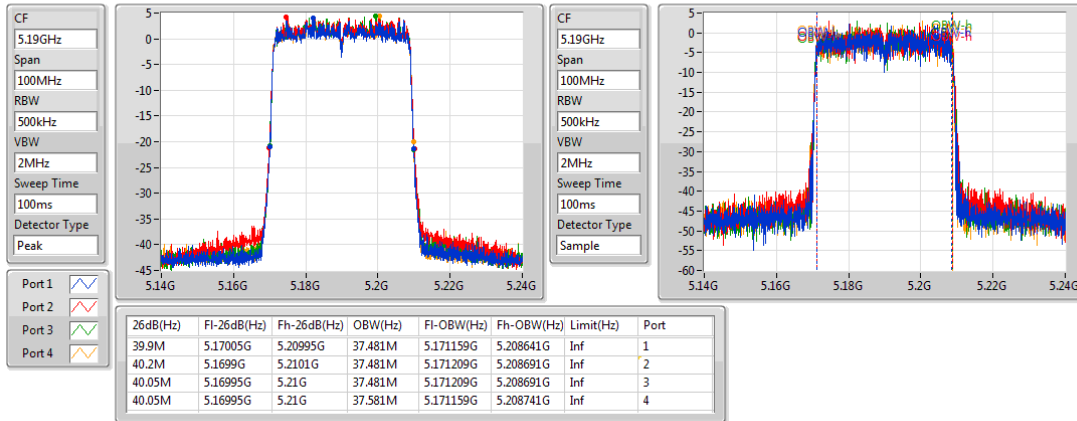


802.11ax HEW40_Nss1,(MCS0)_4TX

EBW

5190MHz

01/02/2019

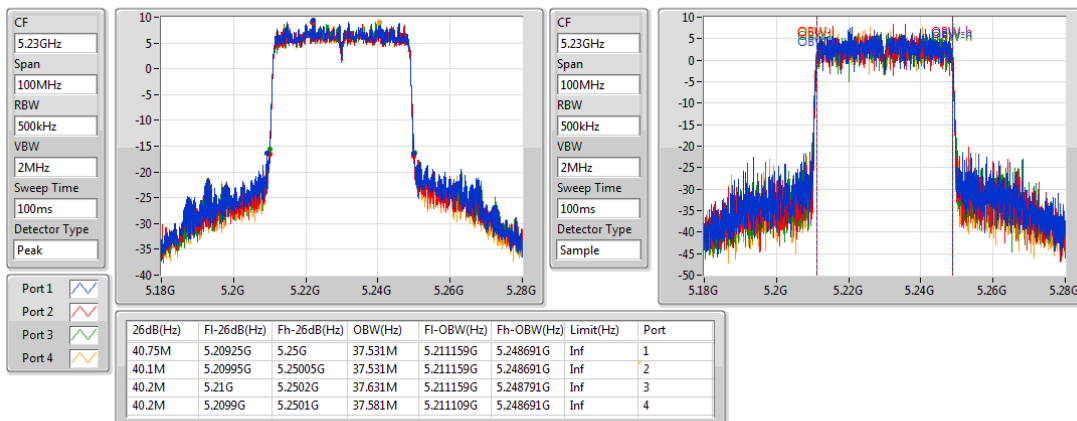


802.11ax HEW40_Nss1,(MCS0)_4TX

EBW

5230MHz

01/02/2019

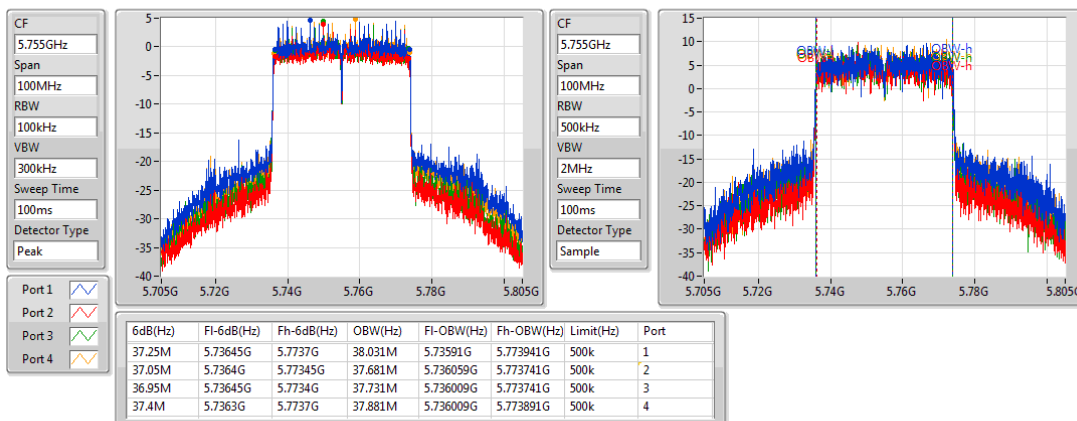


802.11ax HEW40_Nss1,(MCS0)_4TX

EBW

5755MHz

01/02/2019

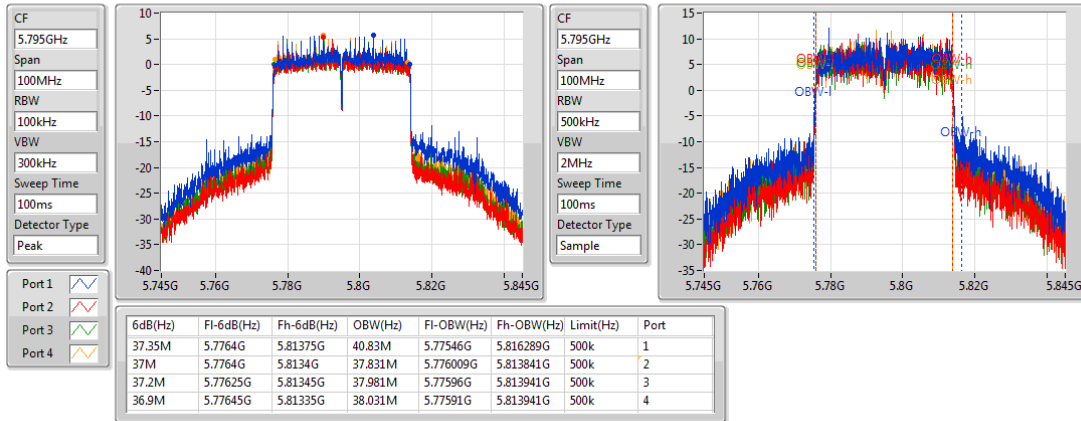


802.11ax HEW40_Nss1,(MCS0)_4TX

EBW

5795MHz

01/02/2019

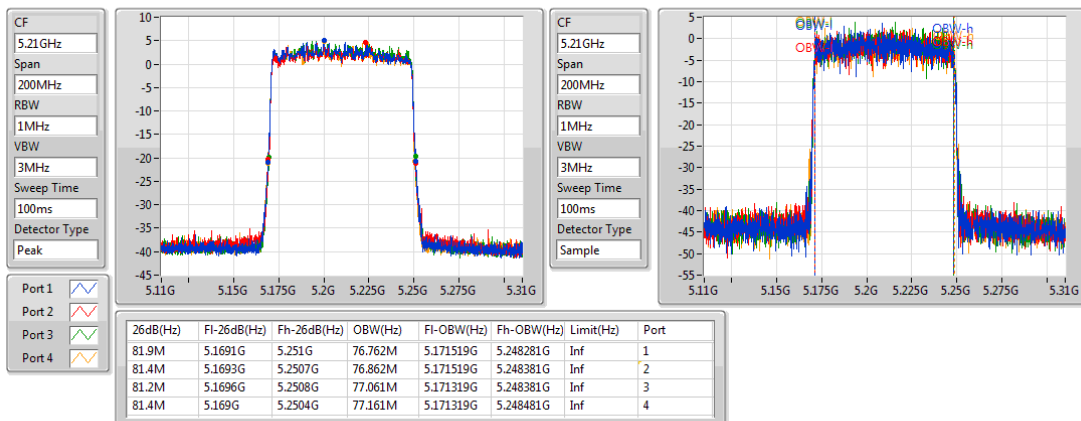


802.11ax HEW80_Nss1,(MCS0)_4TX

EBW

5210MHz

01/02/2019

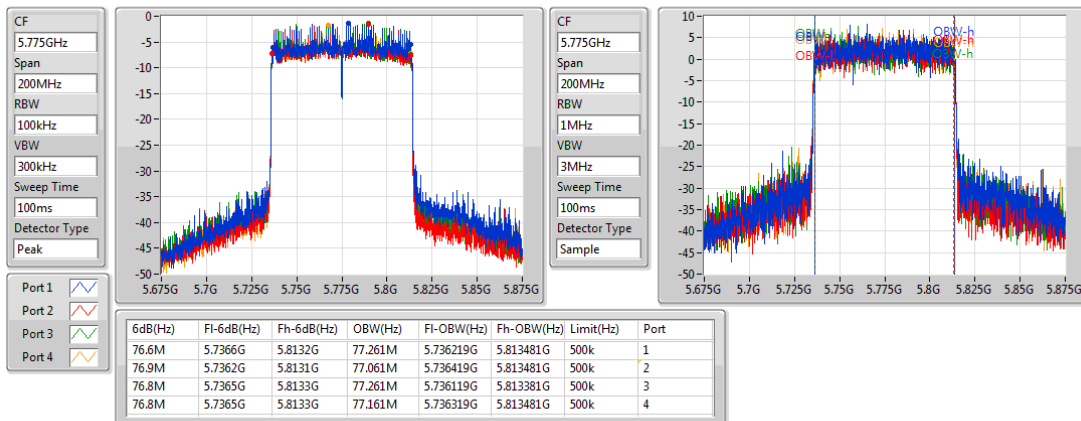


802.11ax HEW80_Nss1,(MCS0)_4TX

EBW

5775MHz

01/02/2019





EBW Result_Radio 2

Appendix B.44

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	22.05M	18.991M	19M0D1D	21.325M	18.941M
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	40.25M	37.631M	37M6D1D	39.95M	37.481M
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	82.2M	77.161M	77M2D1D	81.6M	76.962M
5.725-5.85GHz	-	-	-	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	19.05M	19.015M	19M0D1D	18.9M	18.916M
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	37.5M	37.631M	37M6D1D	36.65M	37.481M
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	77.6M	77.161M	77M2D1D	76.7M	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	21.575M	18.941M	21.525M	18.966M	21.8M	18.941M	21.75M	18.941M
5200MHz	Pass	Inf	21.825M	18.991M	21.7M	18.991M	22.05M	18.966M	21.525M	18.991M
5240MHz	Pass	Inf	21.85M	18.966M	21.525M	18.966M	22.025M	18.966M	21.325M	18.966M
5745MHz	Pass	500k	19.025M	18.966M	18.975M	18.966M	18.975M	19.015M	18.9M	18.941M
5785MHz	Pass	500k	18.925M	18.966M	18.975M	18.966M	18.975M	18.941M	18.95M	18.991M
5825MHz	Pass	500k	19M	18.941M	19M	18.966M	19.05M	18.966M	19.025M	18.916M
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	Inf	39.95M	37.481M	40.1M	37.531M	40.1M	37.481M	40.1M	37.481M
5230MHz	Pass	Inf	39.95M	37.531M	40.15M	37.631M	40.25M	37.531M	40.05M	37.531M
5755MHz	Pass	500k	37.35M	37.481M	37.2M	37.581M	37.1M	37.531M	37.4M	37.481M
5795MHz	Pass	500k	37.5M	37.531M	37.25M	37.581M	37.45M	37.631M	36.65M	37.531M
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	Inf	82.2M	76.962M	81.8M	77.161M	82M	77.161M	81.6M	77.061M
5775MHz	Pass	500k	77M	77.161M	77.6M	76.962M	76.7M	77.061M	77.3M	76.962M

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

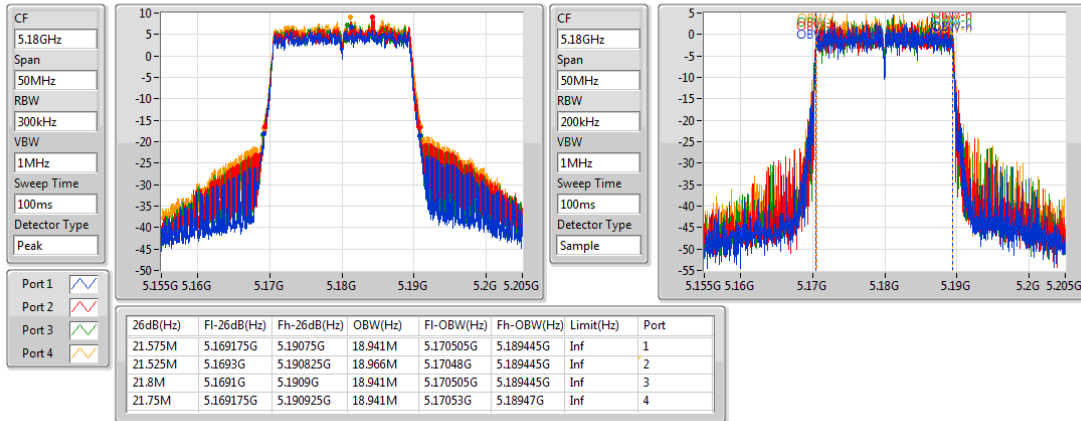
Port X-OBW = Port X 99% occupied bandwidth;

802.11ax HEW20-BF_Nss1,(MCS0)_4TX

EBW

5180MHz

26/01/2019

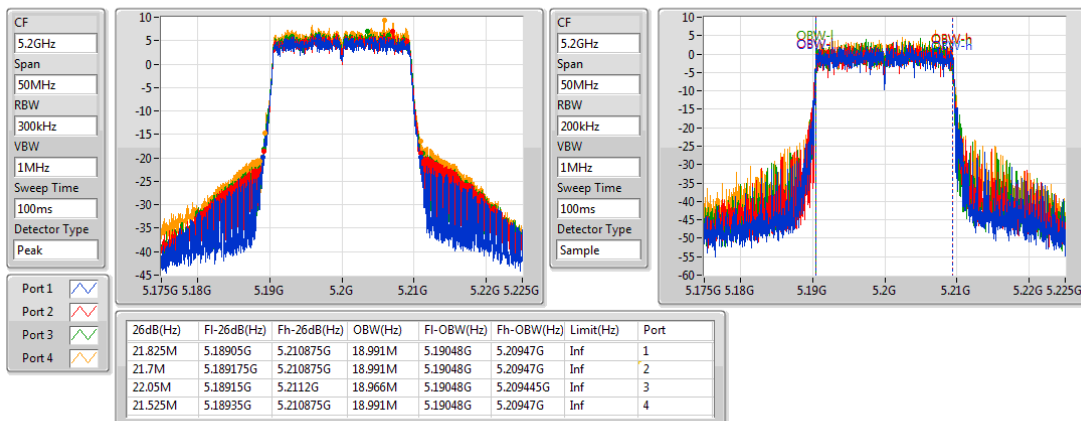


802.11ax HEW20-BF_Nss1,(MCS0)_4TX

EBW

5200MHz

01/02/2019

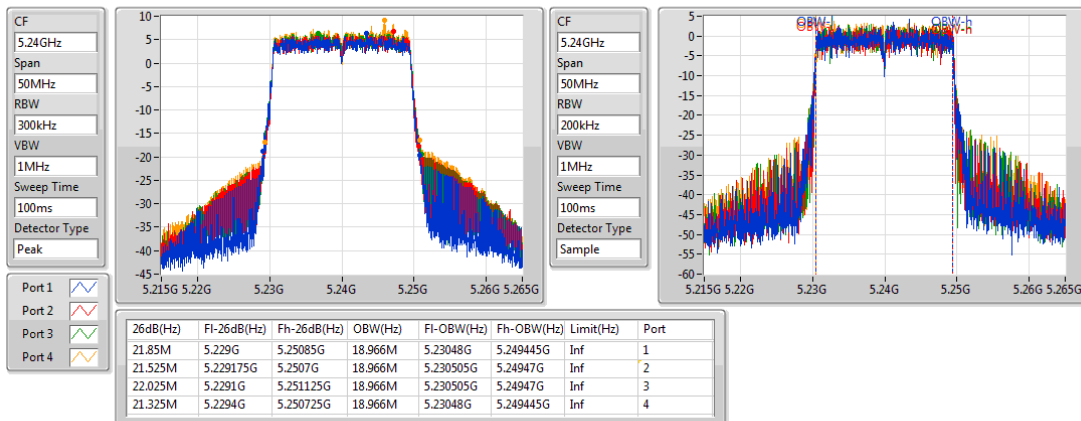


802.11ax HEW20-BF_Nss1,(MCS0)_4TX

EBW

5240MHz

01/02/2019

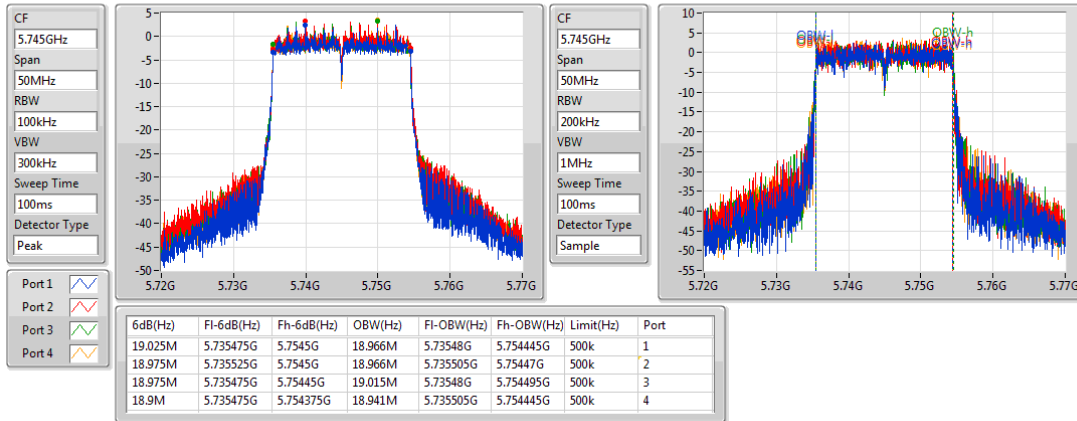


802.11ax HEW20-BF_Nss1,(MCS0)_4TX

EBW

5745MHz

01/02/2019

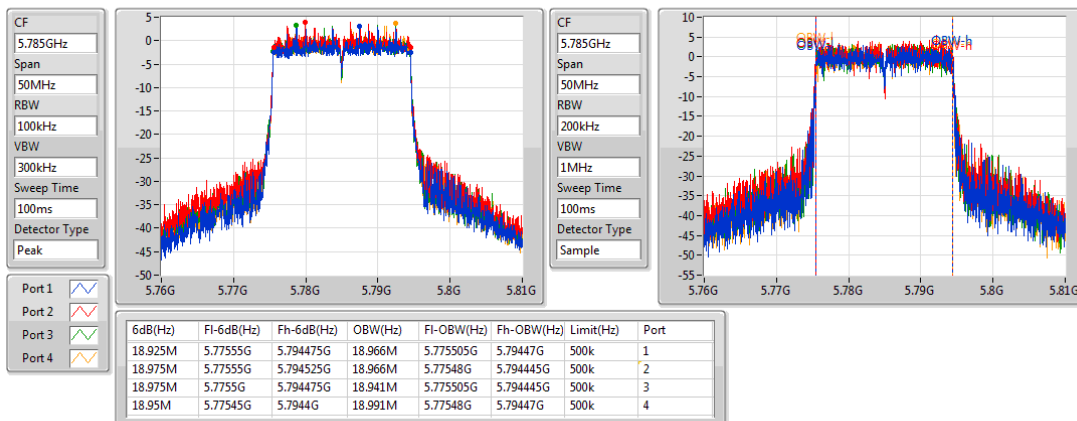


802.11ax HEW20-BF_Nss1,(MCS0)_4TX

EBW

5785MHz

01/02/2019

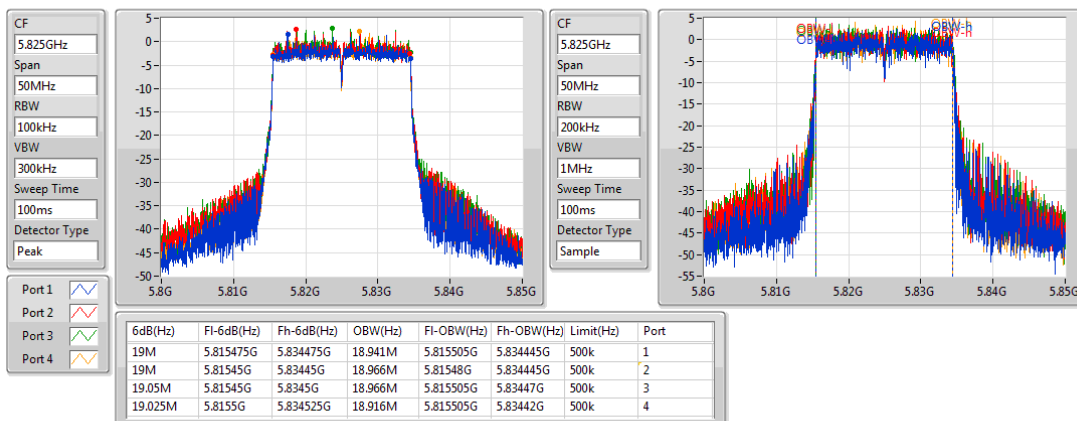


802.11ax HEW20-BF_Nss1,(MCS0)_4TX

EBW

5825MHz

01/02/2019

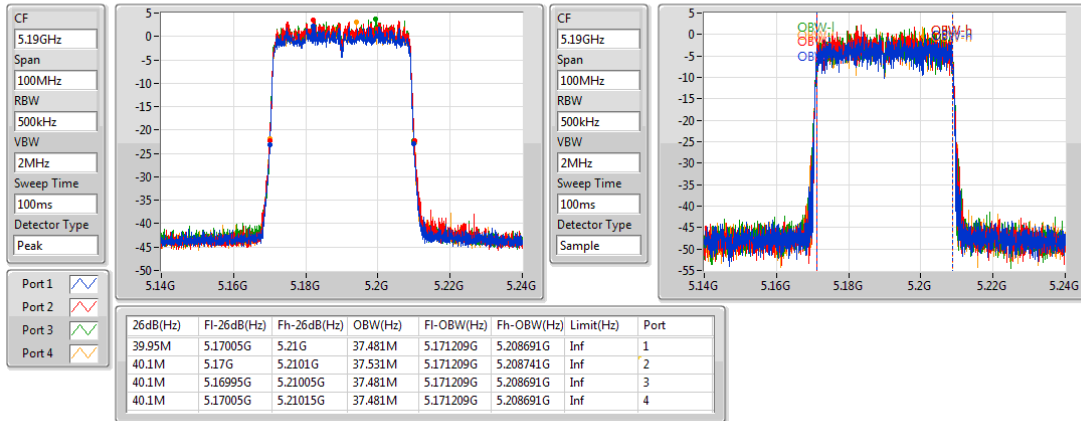


802.11ax HEW40-BF_Nss1,(MCS0)_4TX

EBW

5190MHz

01/02/2019

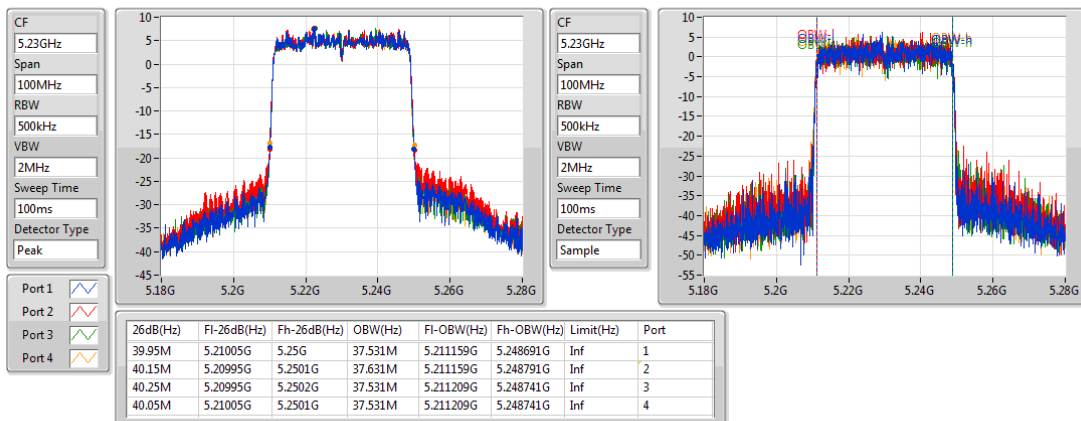


802.11ax HEW40-BF_Nss1,(MCS0)_4TX

EBW

5230MHz

01/02/2019

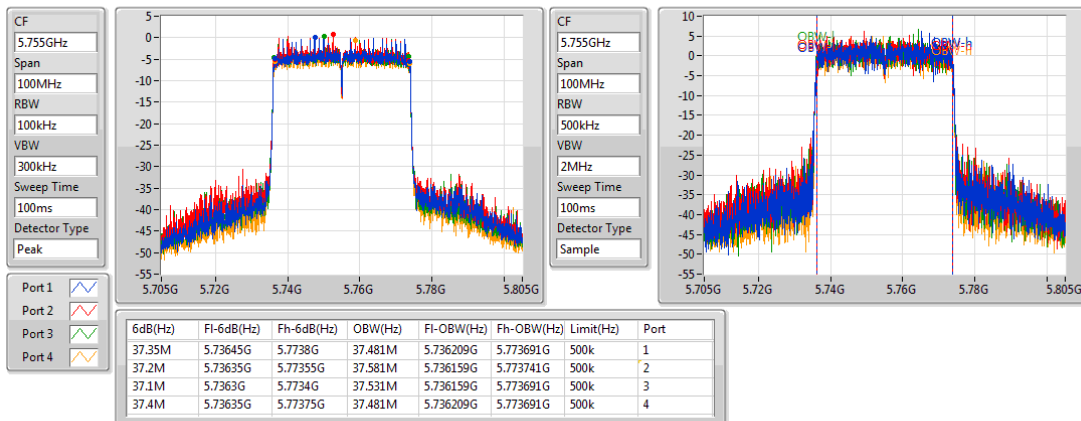


802.11ax HEW40-BF_Nss1,(MCS0)_4TX

EBW

5755MHz

01/02/2019

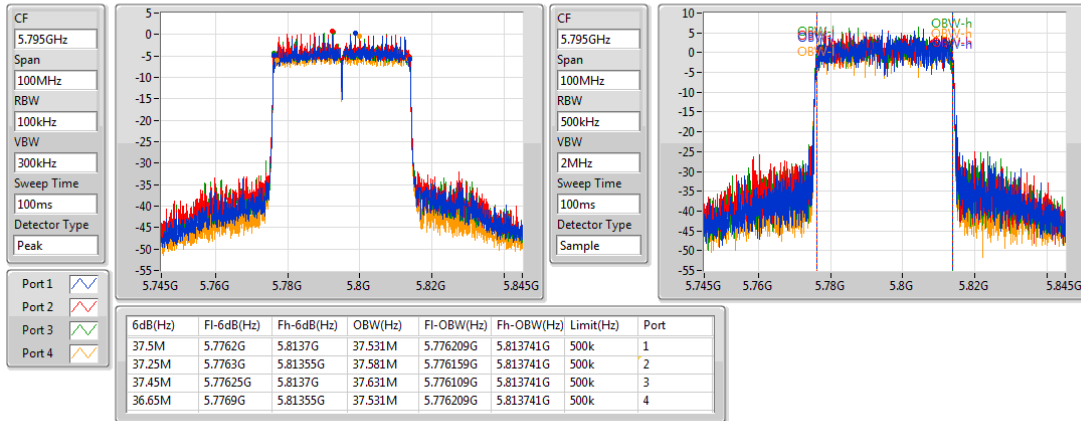


802.11ax HEW40-BF_Nss1,(MCS0)_4TX

EBW

5795MHz

01/02/2019

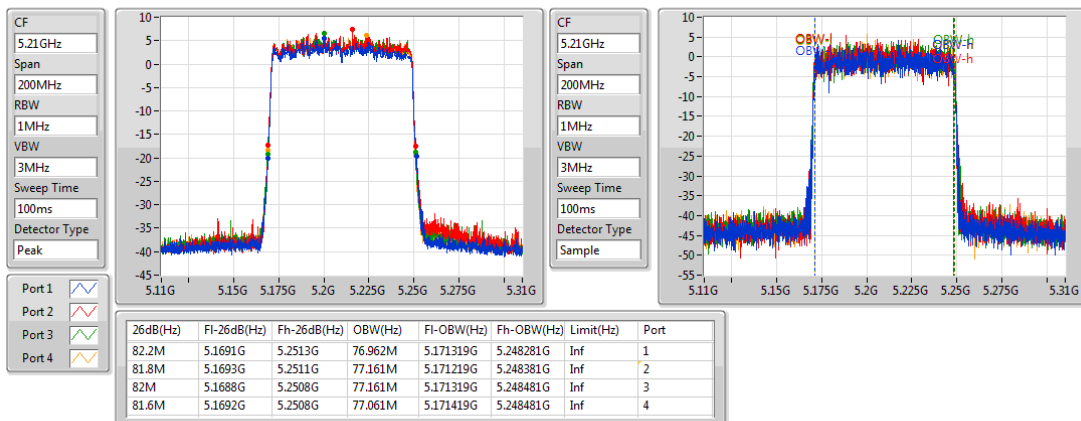


802.11ax HEW80-BF_Nss1,(MCS0)_4TX

EBW

5210MHz

26/01/2019

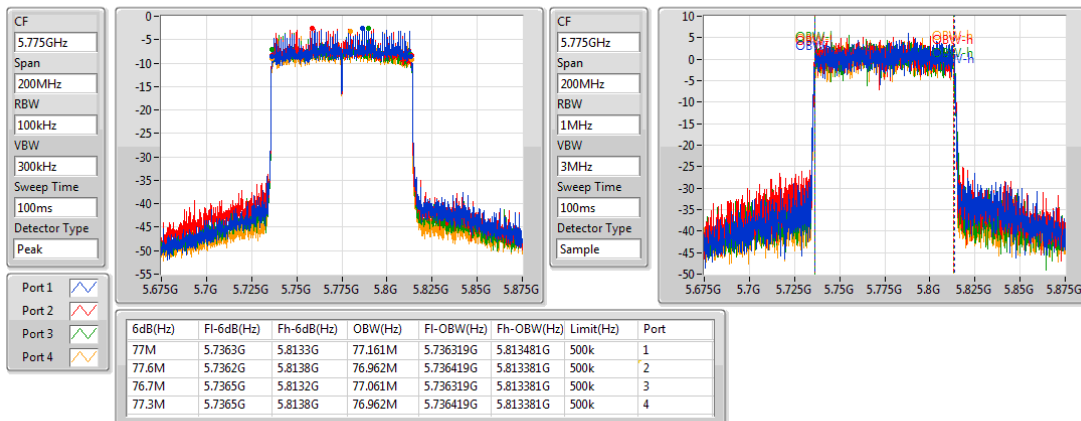


802.11ax HEW80-BF_Nss1,(MCS0)_4TX

EBW

5775MHz

01/02/2019





EBW Result_Radio 2

Appendix B.45

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	37.7M	19.065M	19M1D1D	21.325M	18.941M
802.11ax HEW40_Nss4,(MCS0)_4TX	49.95M	37.631M	37M6D1D	40M	37.431M
802.11ax HEW80_Nss4,(MCS0)_4TX	81.8M	77.161M	77M2D1D	81.3M	76.962M
5.725-5.85GHz	-	-	-	-	-
802.11ax HEW20_Nss4,(MCS0)_4TX	18.925M	26.612M	26M6D1D	18.35M	19.115M
802.11ax HEW40_Nss4,(MCS0)_4TX	37.3M	46.527M	46M5D1D	36.6M	37.781M
802.11ax HEW80_Nss4,(MCS0)_4TX	76.9M	77.161M	77M2D1D	75.4M	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;

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	21.725M	18.966M	21.7M	18.966M	21.8M	18.941M	21.325M	18.941M
5200MHz	Pass	Inf	26.3M	18.966M	24.1M	18.966M	23.6M	18.991M	22.725M	18.941M
5240MHz	Pass	Inf	32.15M	19.065M	27.9M	18.991M	37.7M	19.015M	35M	19.065M
5745MHz	Pass	500k	18.65M	19.215M	18.9M	19.115M	18.825M	19.14M	18.925M	19.165M
5785MHz	Pass	500k	18.525M	26.612M	18.45M	19.84M	18.775M	24.363M	18.35M	22.339M
5825MHz	Pass	500k	18.675M	25.112M	18.45M	20.79M	18.75M	23.263M	18.425M	23.938M
802.11ax HEW40_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	Inf	40.25M	37.431M	40M	37.581M	40.05M	37.481M	40.2M	37.631M
5230MHz	Pass	Inf	49.95M	37.481M	42.4M	37.531M	45.35M	37.631M	40.1M	37.531M
5755MHz	Pass	500k	36.85M	38.831M	36.7M	37.781M	37.05M	37.931M	37.3M	38.231M
5795MHz	Pass	500k	36.85M	46.527M	36.6M	37.881M	36.6M	38.231M	36.95M	38.431M
802.11ax HEW80_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	Inf	81.3M	77.161M	81.4M	76.962M	81.7M	76.962M	81.8M	77.061M
5775MHz	Pass	500k	76.2M	76.962M	76.9M	76.862M	76.8M	76.862M	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

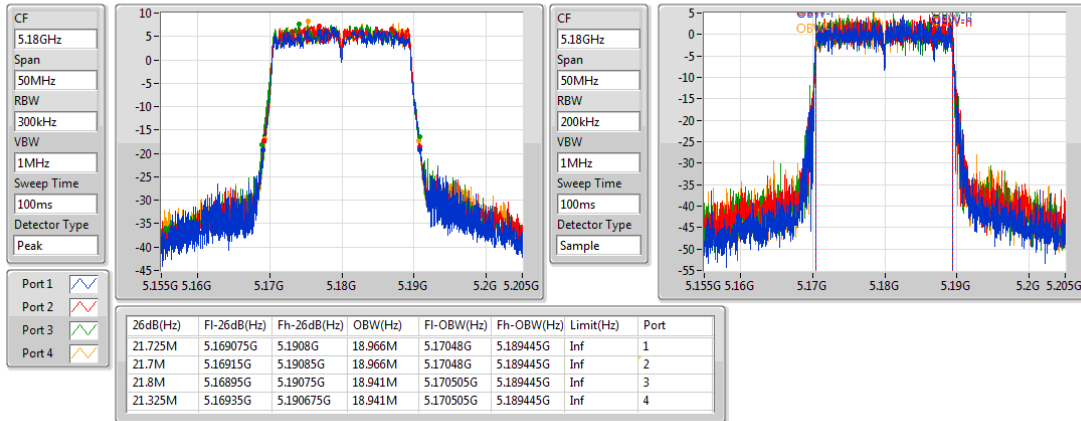
Port X-OBW = Port X 99% occupied bandwidth;

802.11ax HEW20_Nss4,(MCS0)_4TX

EBW

5180MHz

01/02/2019

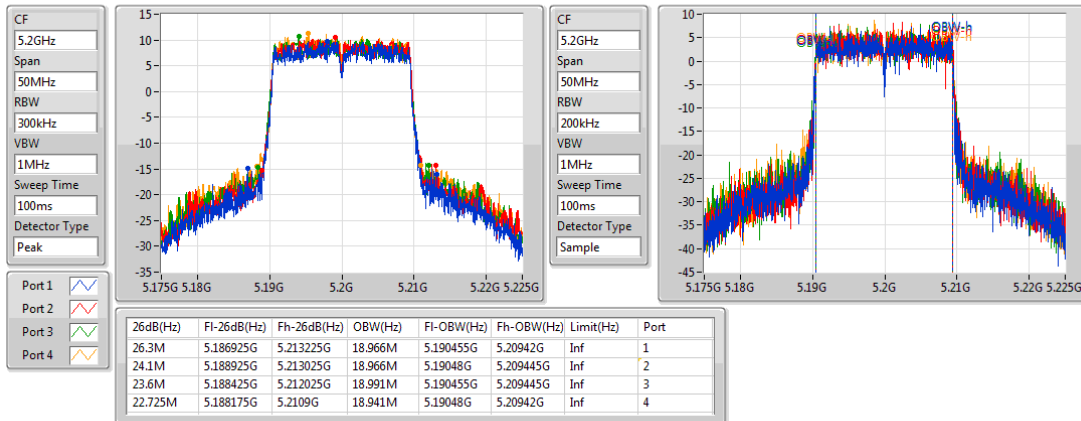


802.11ax HEW20_Nss4,(MCS0)_4TX

EBW

5200MHz

01/02/2019

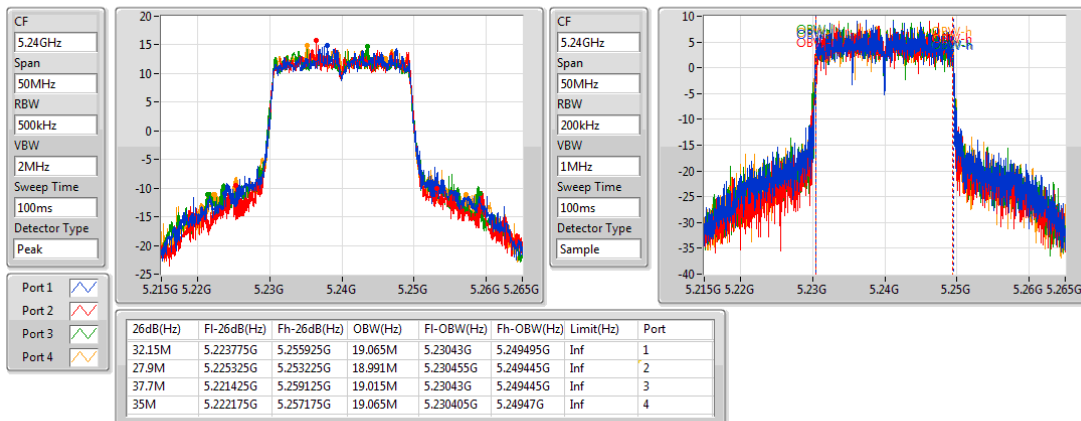


802.11ax HEW20_Nss4,(MCS0)_4TX

EBW

5240MHz

01/02/2019

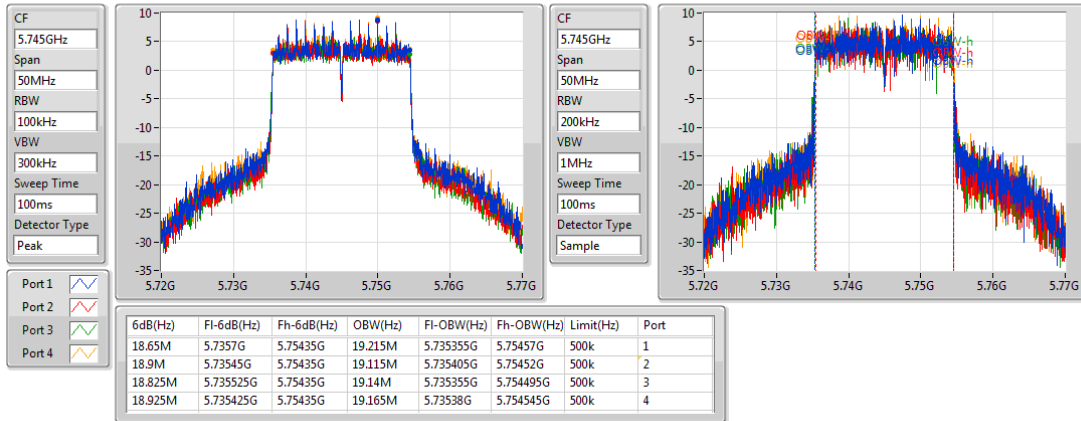


802.11ax HEW20_Nss4,(MCS0)_4TX

EBW

5745MHz

01/02/2019

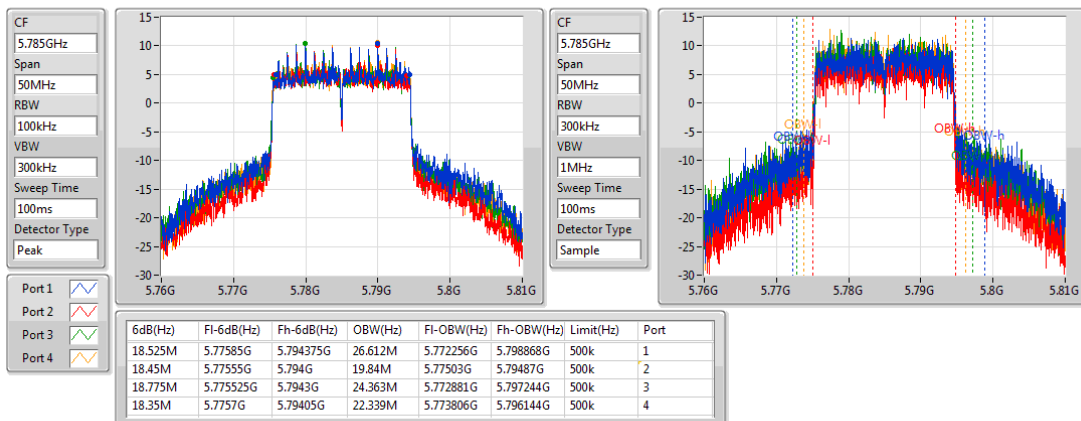


802.11ax HEW20_Nss4,(MCS0)_4TX

EBW

5785MHz

01/02/2019

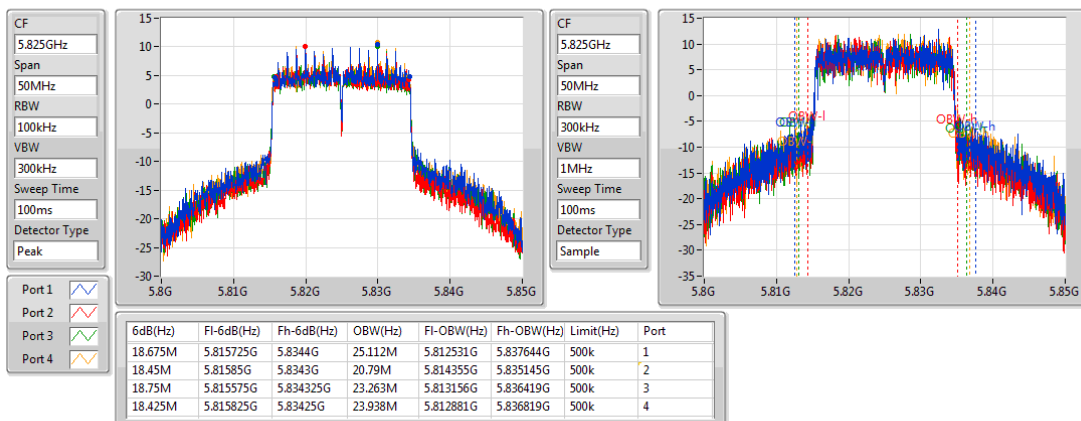


802.11ax HEW20_Nss4,(MCS0)_4TX

EBW

5825MHz

01/02/2019

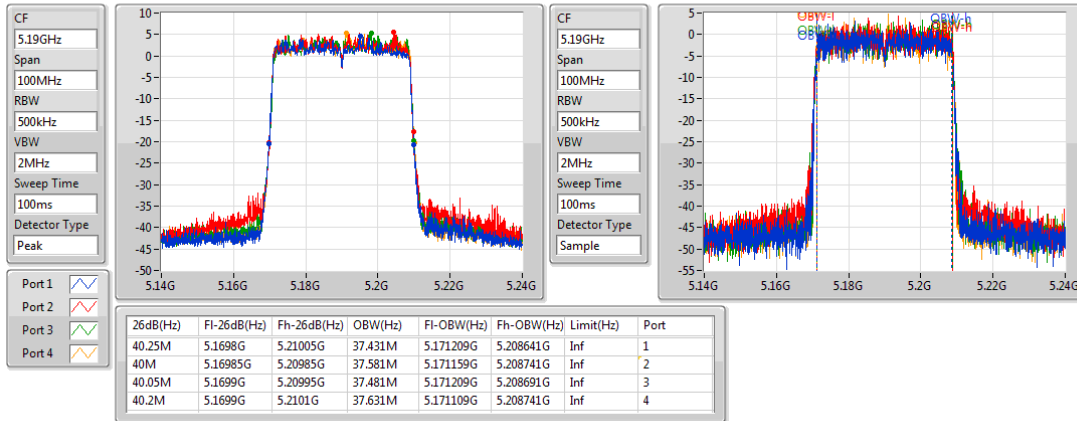


802.11ax HEW40_Nss4,(MCS0)_4TX

EBW

5190MHz

01/02/2019

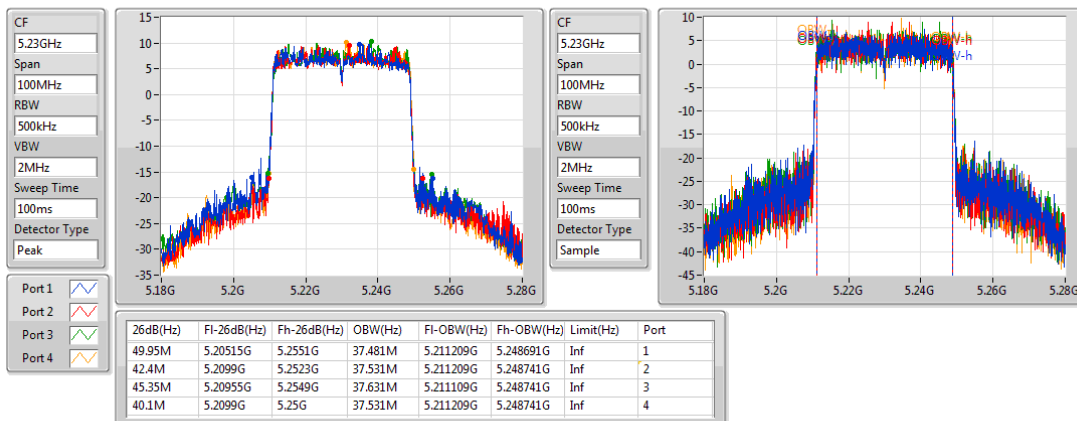


802.11ax HEW40_Nss4,(MCS0)_4TX

EBW

5230MHz

01/02/2019

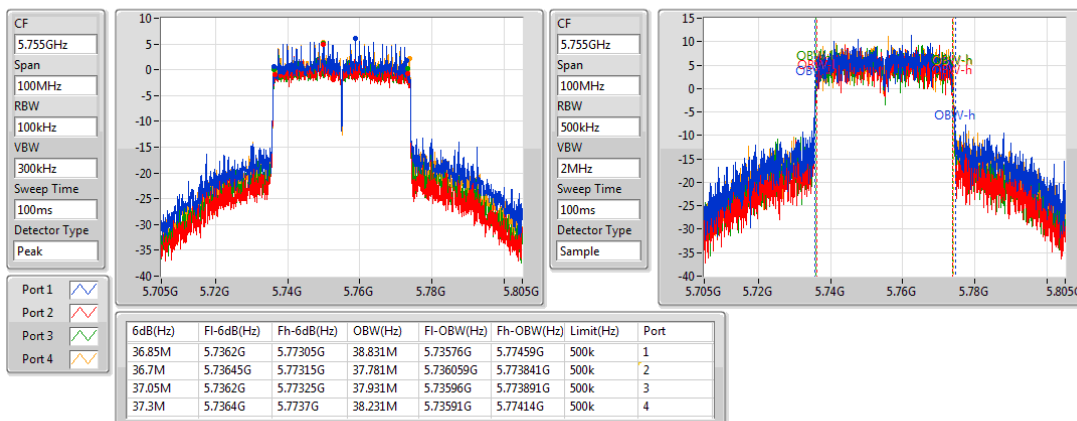


802.11ax HEW40_Nss4,(MCS0)_4TX

EBW

5755MHz

01/02/2019

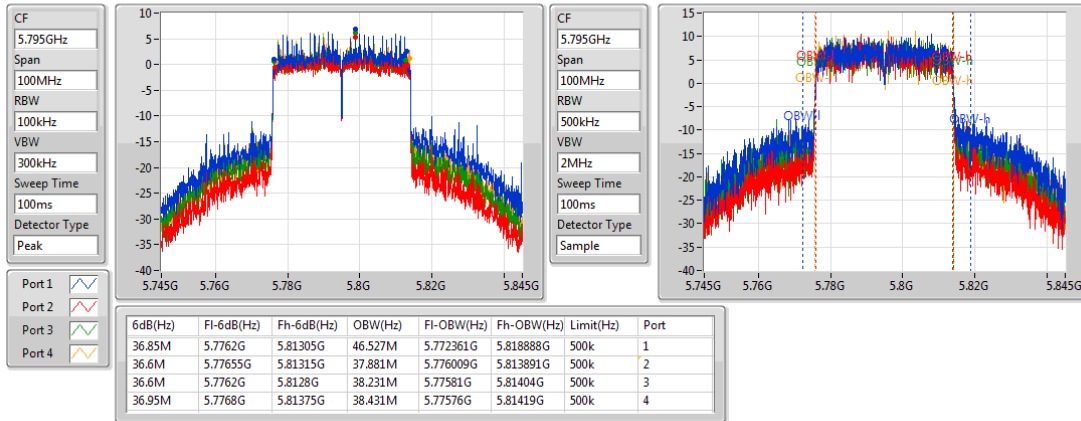


802.11ax HEW40_Nss4,(MCS0)_4TX

EBW

5795MHz

01/02/2019

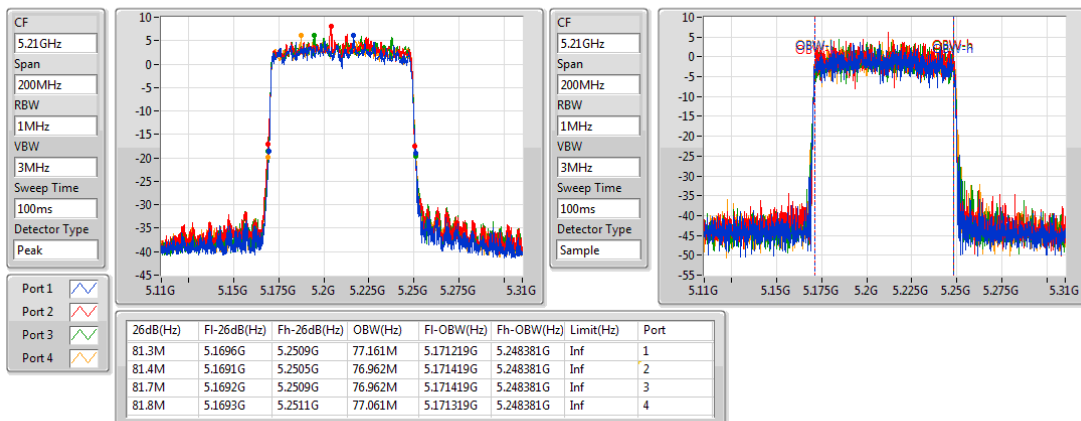


802.11ax HEW80_Nss4,(MCS0)_4TX

EBW

5210MHz

01/02/2019

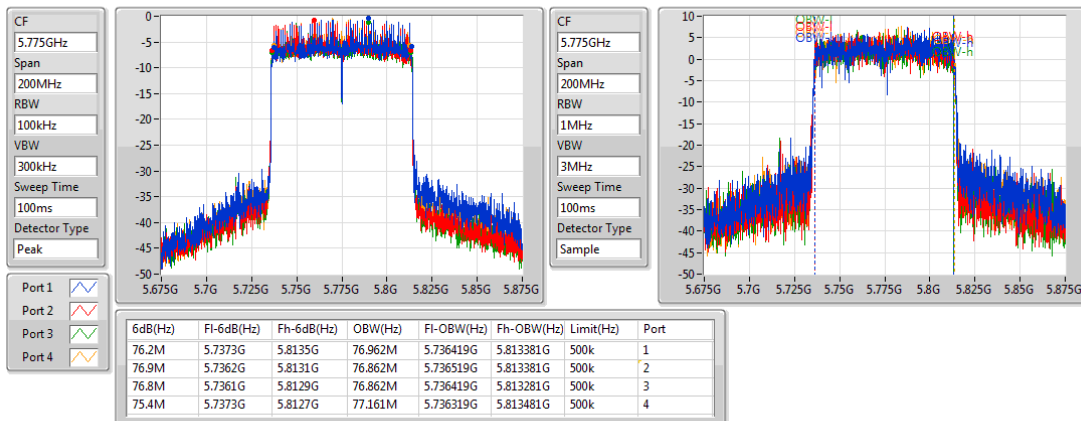


802.11ax HEW80_Nss4,(MCS0)_4TX

EBW

5775MHz

01/02/2019





EBW Result_Radio 2

Appendix B.46

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	21.5M	16.617M	16M6D1D	21.4M	16.567M
802.11ax HEW20_Nss1,(MCS0)_1TX	21.75M	18.966M	19M0D1D	21.675M	18.941M
802.11ax HEW40_Nss1,(MCS0)_1TX	40M	37.531M	37M5D1D	39.95M	37.531M
802.11ax HEW80_Nss1,(MCS0)_1TX	81.6M	76.862M	76M9D1D	81.6M	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;

Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
802.11a_Nss1,(6Mbps)_1TX	-	-	-	-
5180MHz	Pass	Inf	21.4M	16.617M
5200MHz	Pass	Inf	21.475M	16.617M
5240MHz	Pass	Inf	21.5M	16.567M
802.11ax HEW20_Nss1,(MCS0)_1TX	-	-	-	-
5180MHz	Pass	Inf	21.75M	18.966M
5200MHz	Pass	Inf	21.675M	18.941M
5240MHz	Pass	Inf	21.75M	18.966M
802.11ax HEW40_Nss1,(MCS0)_1TX	-	-	-	-
5190MHz	Pass	Inf	39.95M	37.531M
5230MHz	Pass	Inf	40M	37.531M
802.11ax HEW80_Nss1,(MCS0)_1TX	-	-	-	-
5210MHz	Pass	Inf	81.6M	76.862M

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

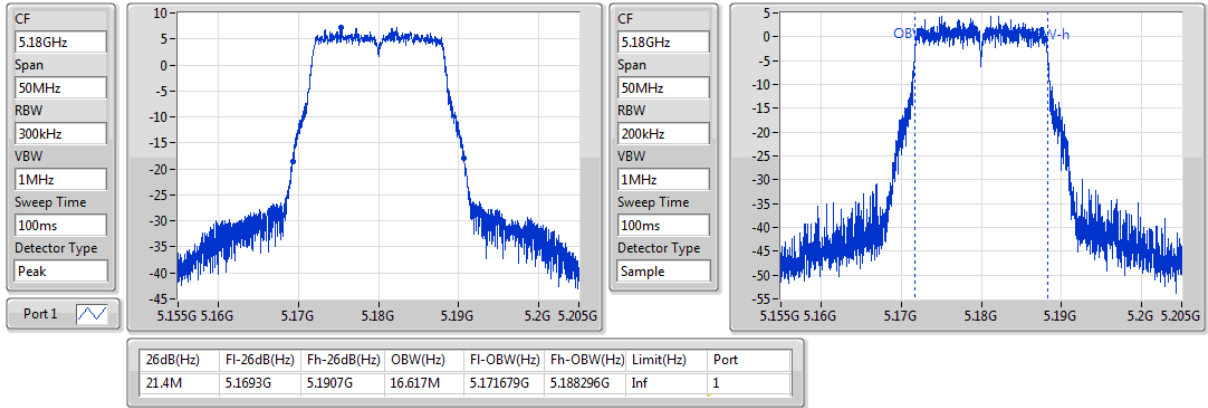
Port X-OBW = Port X 99% occupied bandwidth;

802.11a_Nss1,(6Mbps)_1TX

EBW

5180MHz

02/03/2019

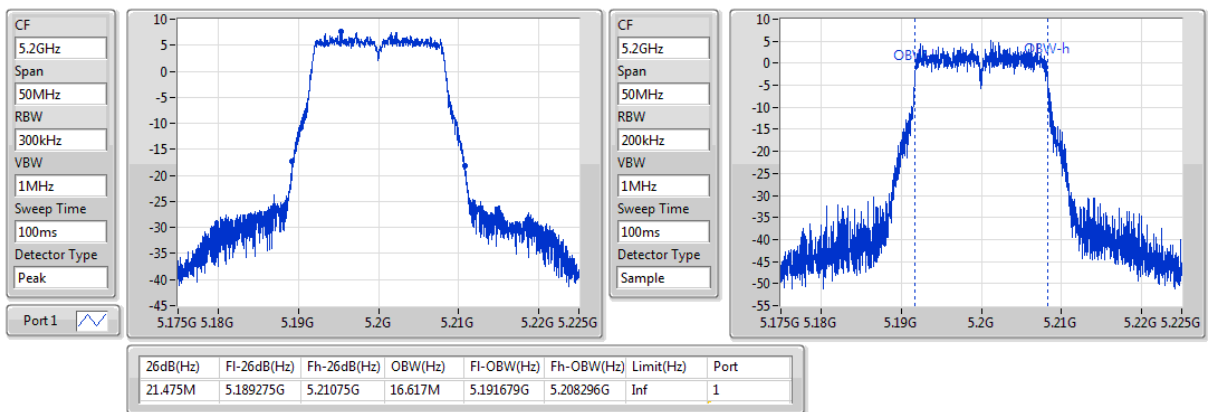


802.11a_Nss1,(6Mbps)_1TX

EBW

5200MHz

02/03/2019

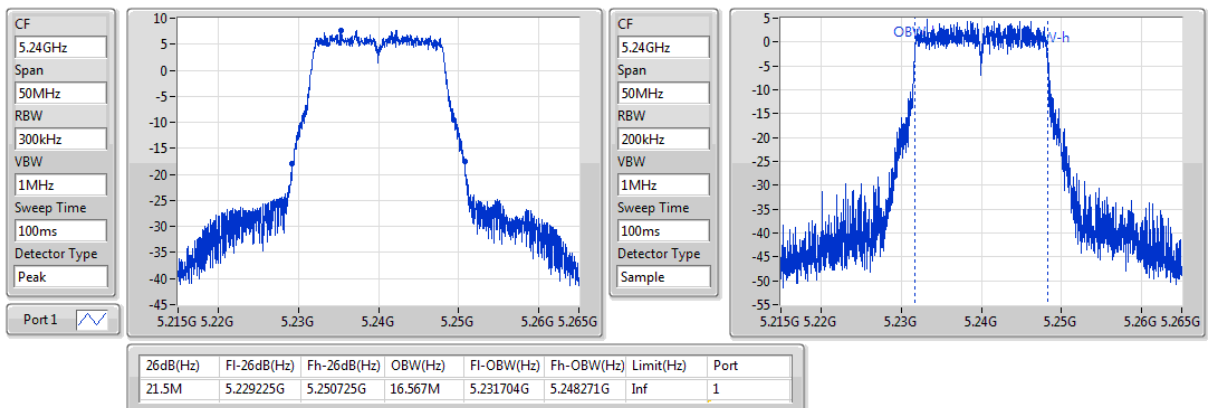


802.11a_Nss1,(6Mbps)_1TX

EBW

5240MHz

02/03/2019

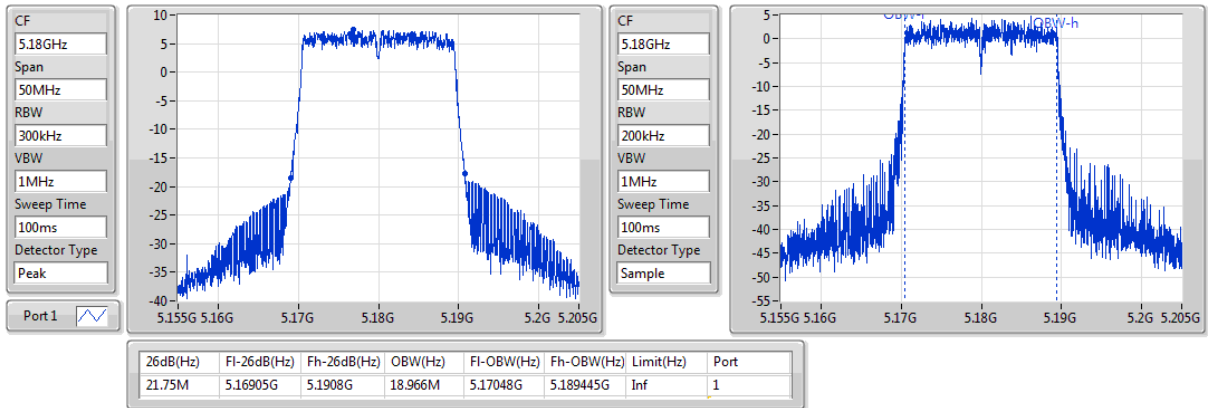


802.11ax HEW20_Nss1,(MCS0)_1TX

EBW

5180MHz

02/03/2019

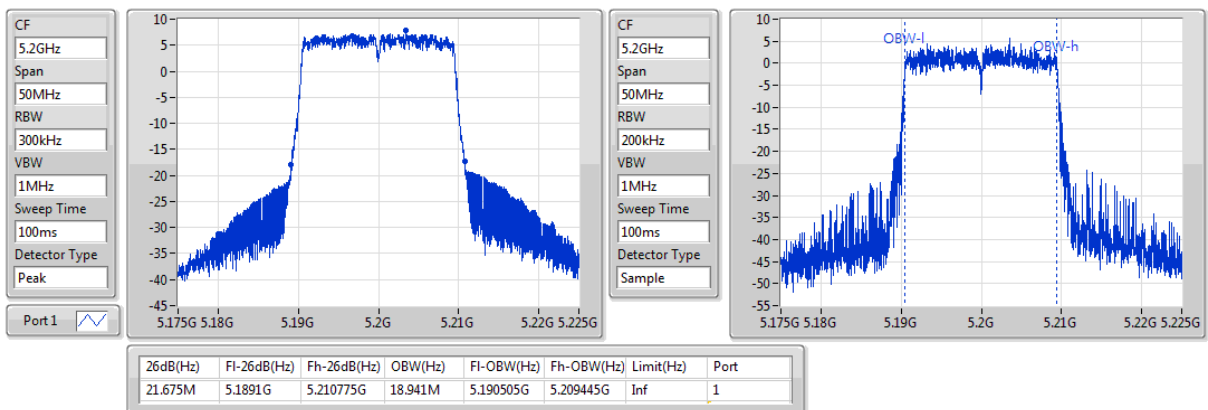


802.11ax HEW20_Nss1,(MCS0)_1TX

EBW

5200MHz

02/03/2019

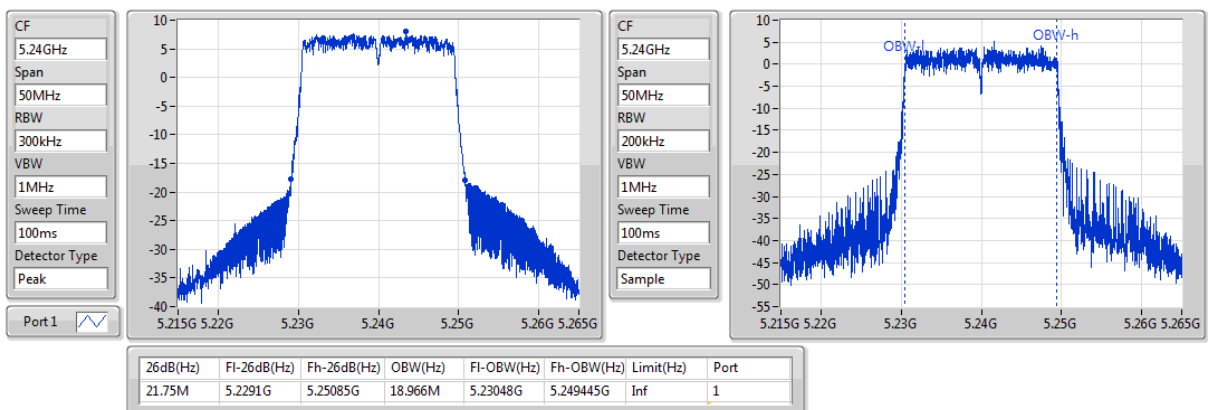


802.11ax HEW20_Nss1,(MCS0)_1TX

EBW

5240MHz

02/03/2019

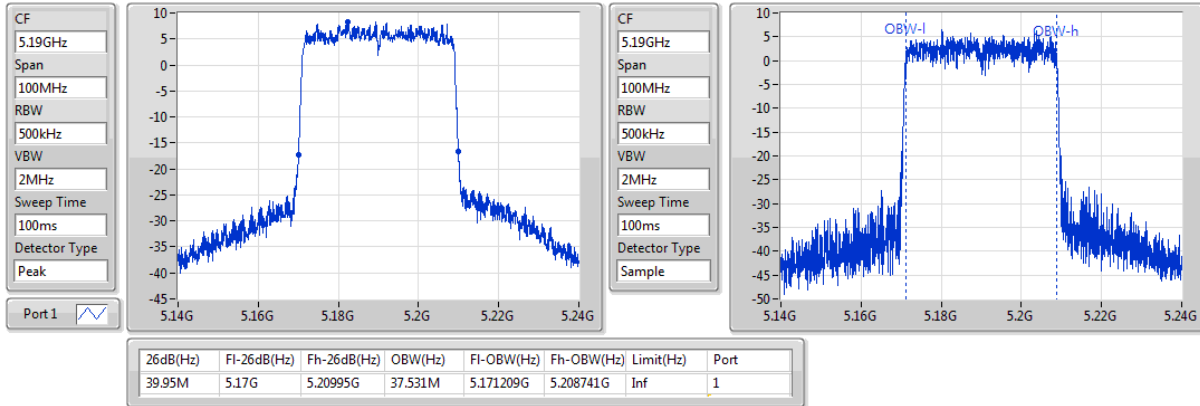


802.11ax HEW40_Nss1,(MCS0)_1TX

EBW

5190MHz

02/03/2019

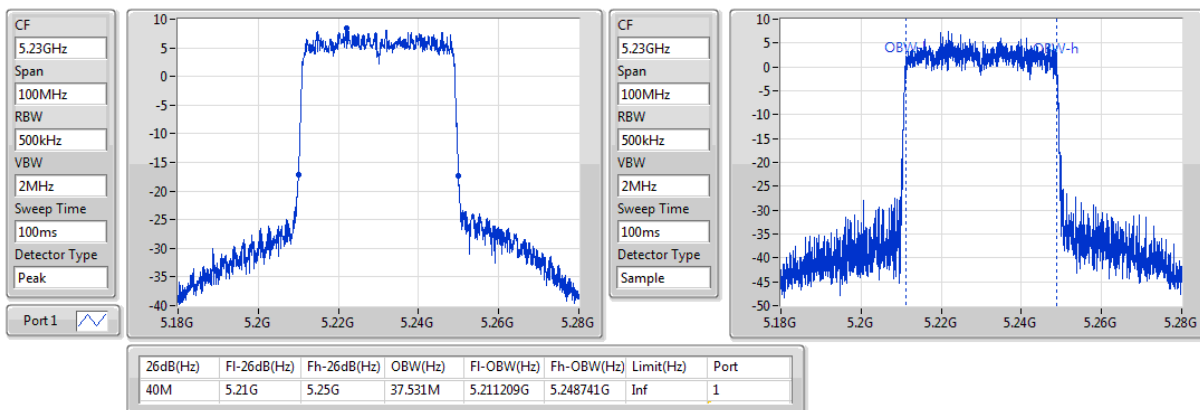


802.11ax HEW40_Nss1,(MCS0)_1TX

EBW

5230MHz

02/03/2019

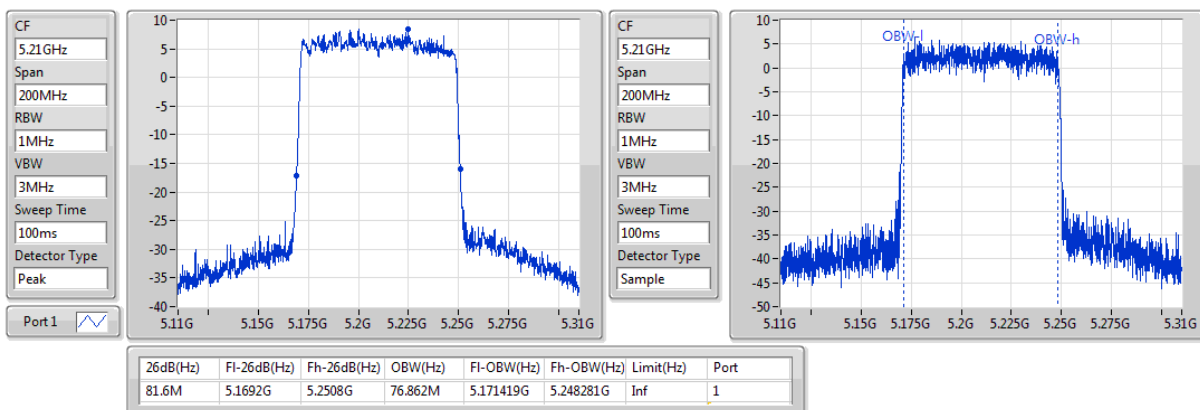


802.11ax HEW80_Nss1,(MCS0)_1TX

EBW

5210MHz

02/03/2019



**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	22.05M	18.966M	19M0D1D	21.425M	18.941M
802.11ax HEW40_Nss2,(MCS0)_2TX	40M	37.631M	37M6D1D	39.9M	37.531M
802.11ax HEW80_Nss2,(MCS0)_2TX	81.8M	77.061M	77M1D1D	81.4M	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;



EBW Result_Radio 2

Appendix B.47

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	21.425M	18.941M
5200MHz	Pass	Inf	22.05M	18.966M	21.475M	18.966M
5240MHz	Pass	Inf	22.05M	18.941M	21.575M	18.966M
802.11ax HEW40_Nss2,(MCS0)_2TX	-	-	-	-	-	-
5190MHz	Pass	Inf	39.9M	37.631M	40M	37.531M
5230MHz	Pass	Inf	40M	37.631M	39.95M	37.581M
802.11ax HEW80_Nss2,(MCS0)_2TX	-	-	-	-	-	-
5210MHz	Pass	Inf	81.8M	76.962M	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

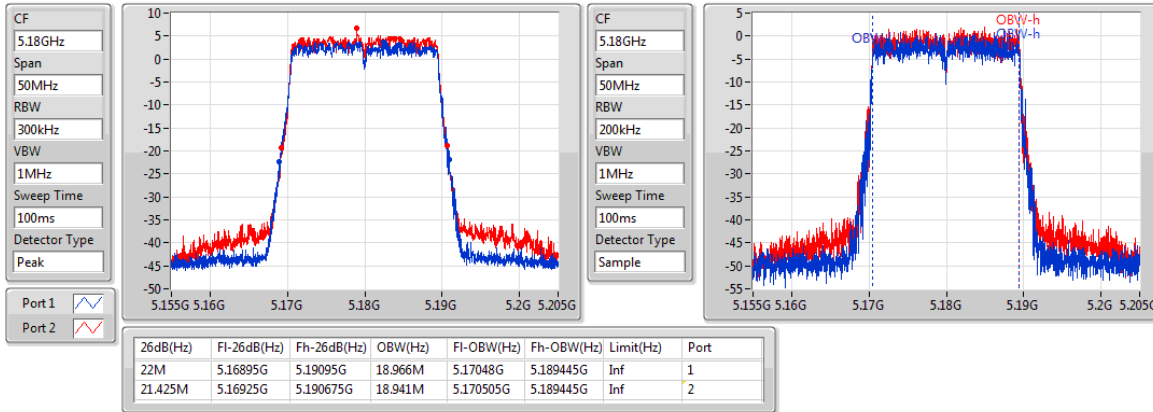
Port X-OBW = Port X 99% occupied bandwidth;

802.11ax HEW20_Nss2,(MCS0)_2TX

EBW

5180MHz

02/03/2019

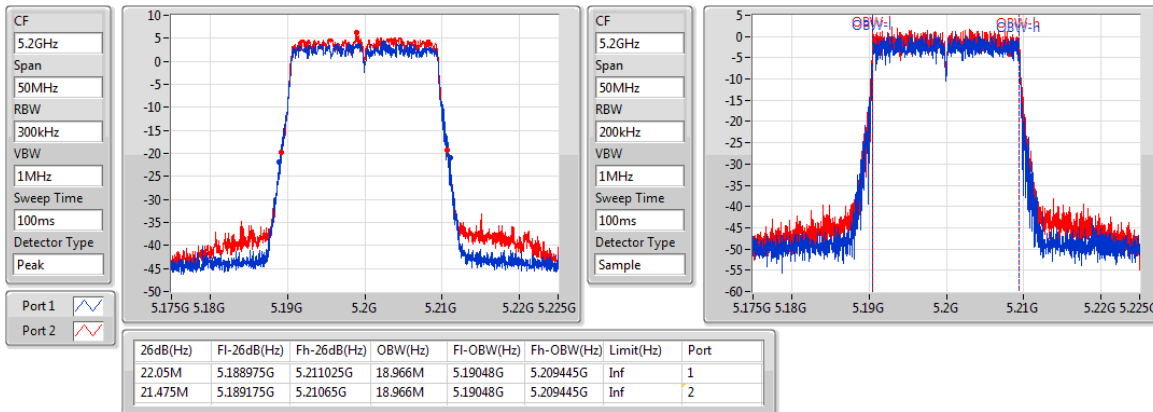


802.11ax HEW20_Nss2,(MCS0)_2TX

EBW

5200MHz

02/03/2019

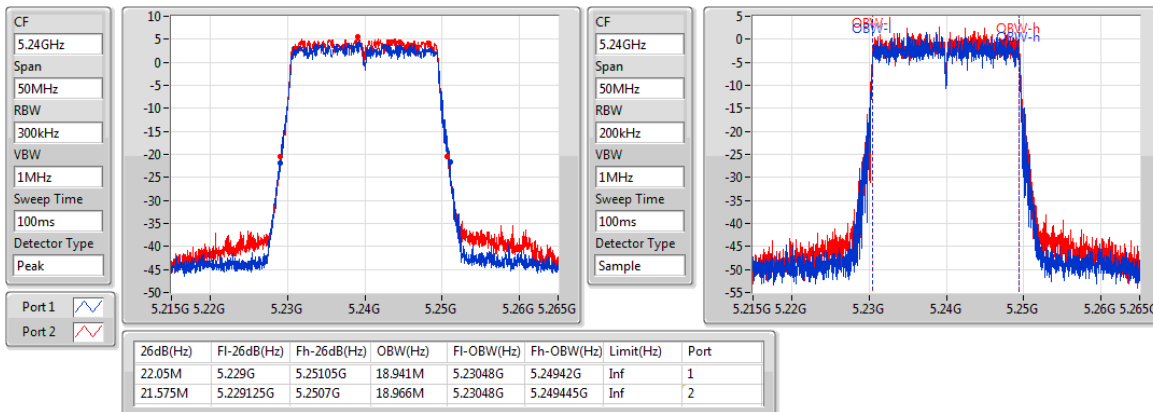


802.11ax HEW20_Nss2,(MCS0)_2TX

EBW

5240MHz

02/03/2019

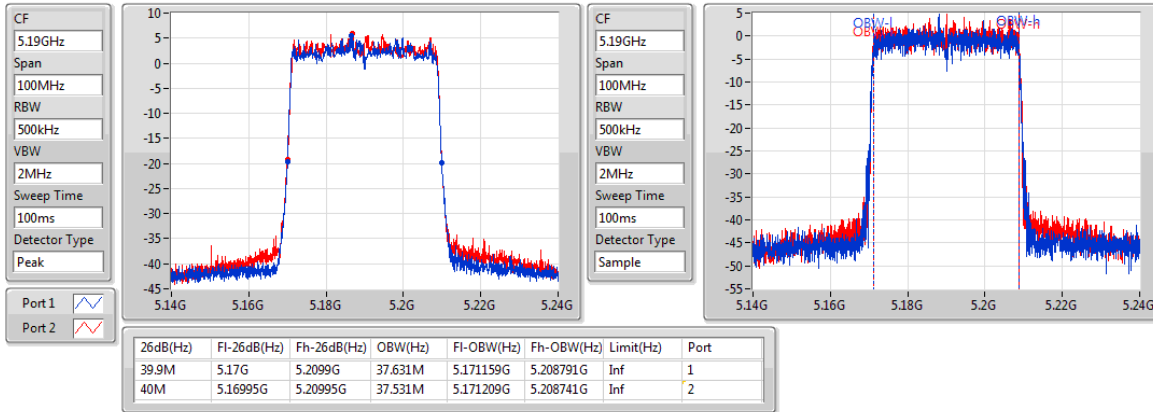


802.11ax HEW40_Nss2,(MCS0)_2TX

EBW

5190MHz

02/03/2019

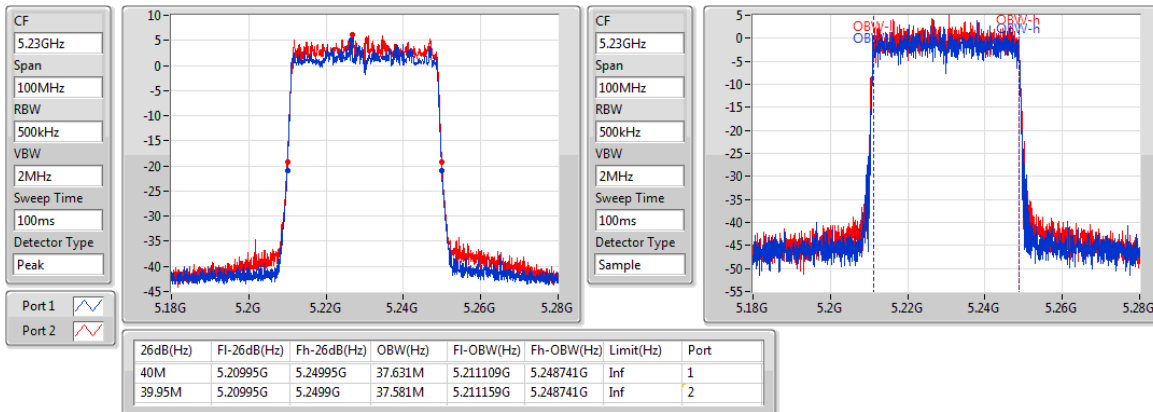


802.11ax HEW40_Nss2,(MCS0)_2TX

EBW

5230MHz

02/03/2019

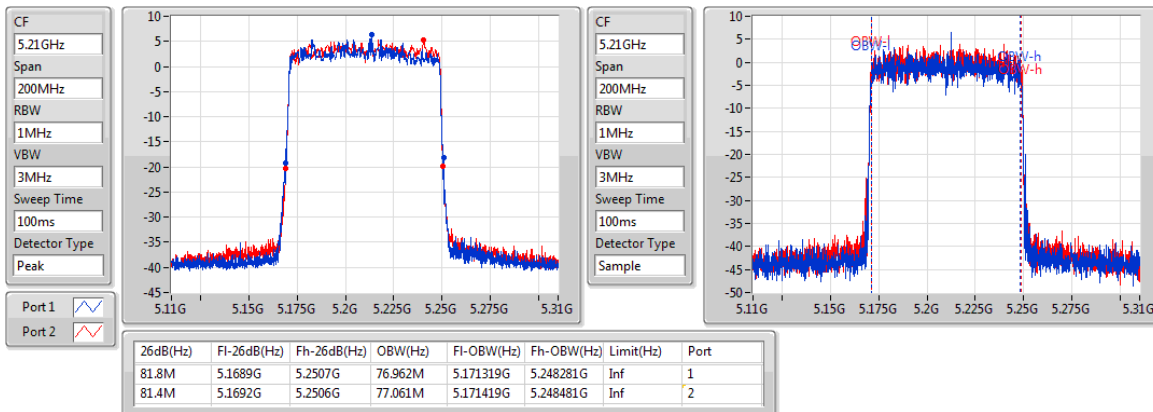


802.11ax HEW80_Nss2,(MCS0)_2TX

EBW

5210MHz

02/03/2019





EBW Result_Radio 2

Appendix B.48

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	21.725M	16.617M	16M6D1D	21.45M	16.542M
802.11ax HEW20_Nss1,(MCS0)_4TX	21.875M	18.991M	19M0D1D	21.375M	18.916M
802.11ax HEW40_Nss1,(MCS0)_4TX	40.1M	37.631M	37M6D1D	39.9M	37.531M
802.11ax HEW80_Nss1,(MCS0)_4TX	81.5M	77.161M	77M2D1D	81.2M	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;

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	21.65M	16.567M	21.725M	16.617M	21.45M	16.542M
5200MHz	Pass	Inf	21.475M	16.592M	21.675M	16.592M	21.725M	16.592M	21.525M	16.542M
5240MHz	Pass	Inf	21.525M	16.617M	21.525M	16.592M	21.55M	16.567M	21.525M	16.567M
802.11ax HEW20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	Inf	21.85M	18.941M	21.725M	18.991M	21.825M	18.966M	21.375M	18.916M
5200MHz	Pass	Inf	21.675M	18.991M	21.675M	18.966M	21.875M	18.966M	21.375M	18.966M
5240MHz	Pass	Inf	21.75M	18.941M	21.7M	18.941M	21.85M	18.941M	21.525M	18.941M
802.11ax HEW40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	Inf	39.95M	37.531M	39.9M	37.631M	40M	37.581M	40.05M	37.581M
5230MHz	Pass	Inf	40.1M	37.531M	40M	37.531M	39.95M	37.531M	40.1M	37.581M
802.11ax HEW80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	Inf	81.5M	77.061M	81.2M	77.161M	81.2M	76.762M	81.5M	77.061M

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

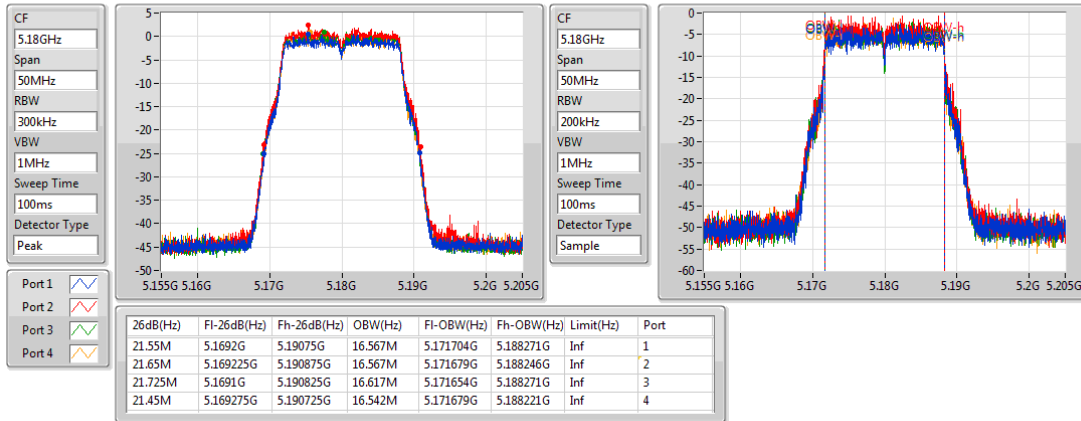
Port X-OBW = Port X 99% occupied bandwidth;

802.11a_Nss1,(6Mbps)_4TX

EBW

5180MHz

02/03/2019

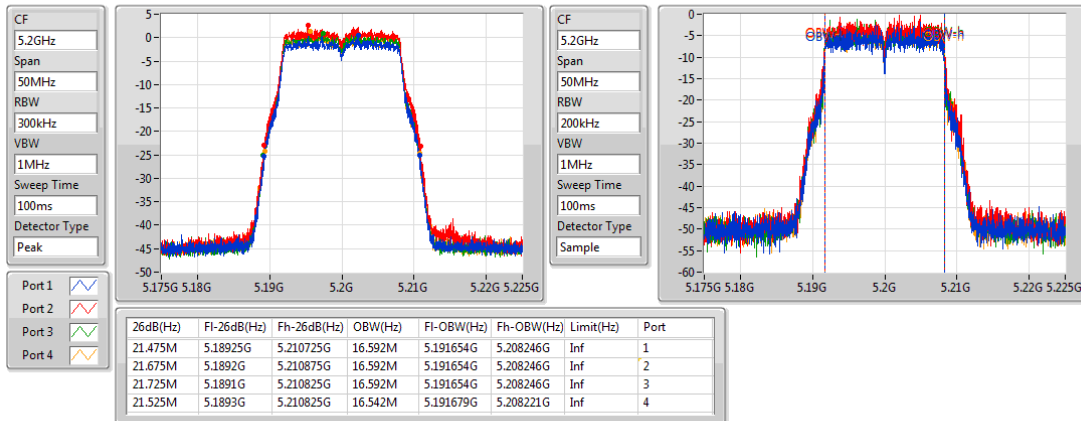


802.11a_Nss1,(6Mbps)_4TX

EBW

5200MHz

02/03/2019

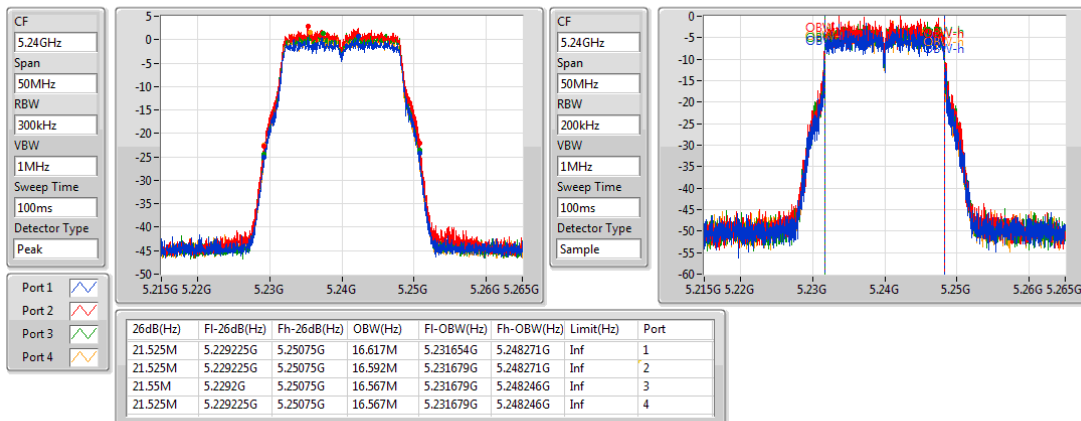


802.11a_Nss1,(6Mbps)_4TX

EBW

5240MHz

02/03/2019

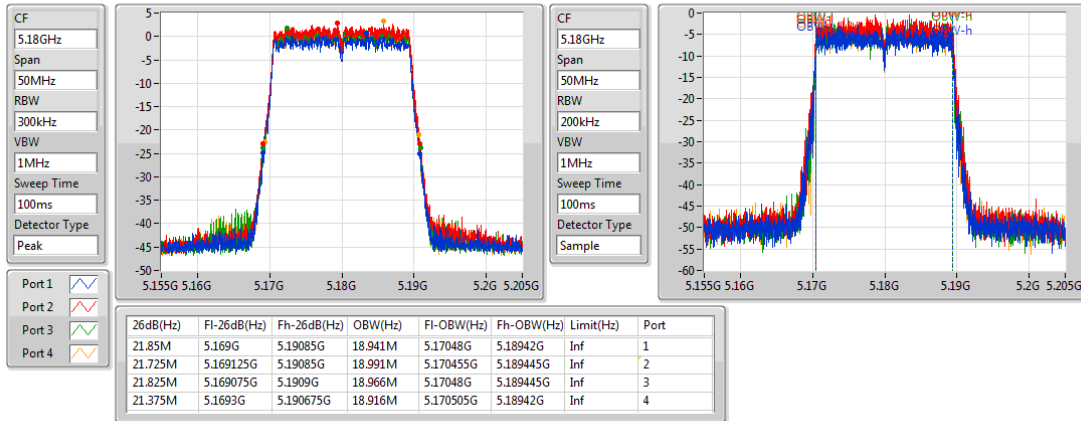


802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

5180MHz

02/03/2019

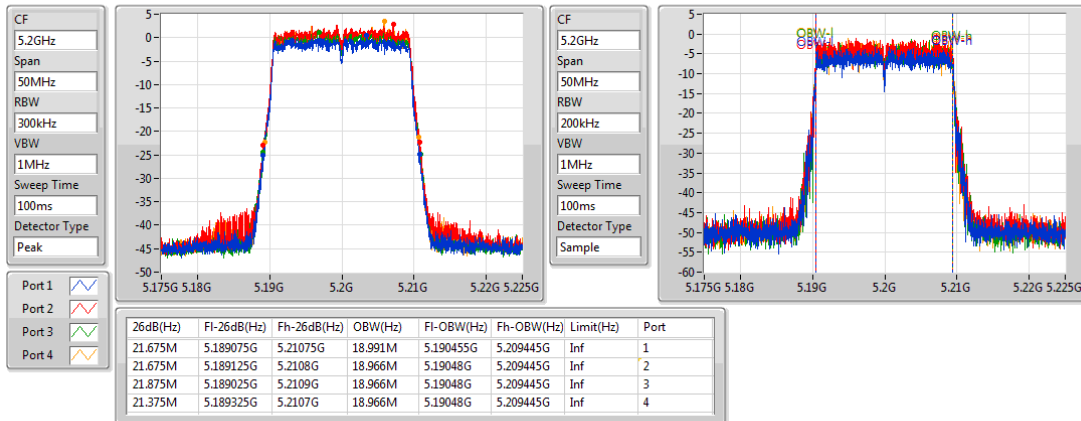


802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

5200MHz

03/03/2019

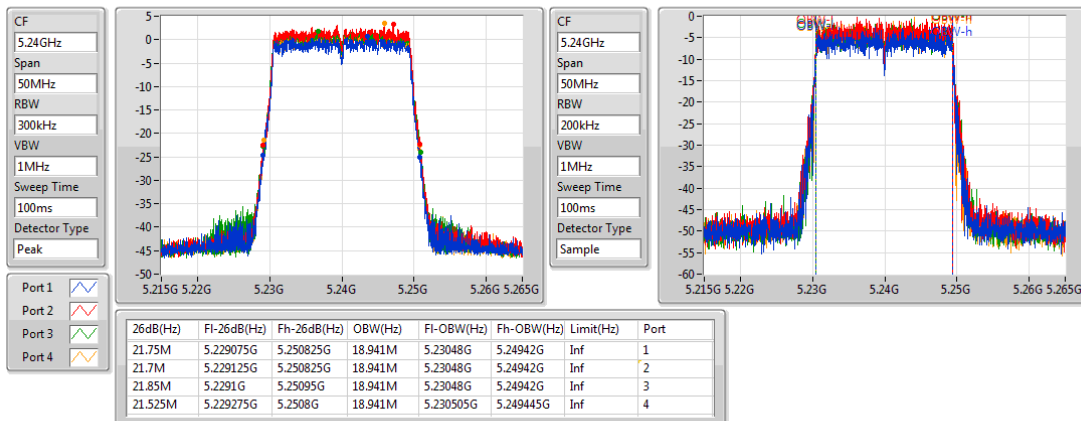


802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

5240MHz

03/03/2019

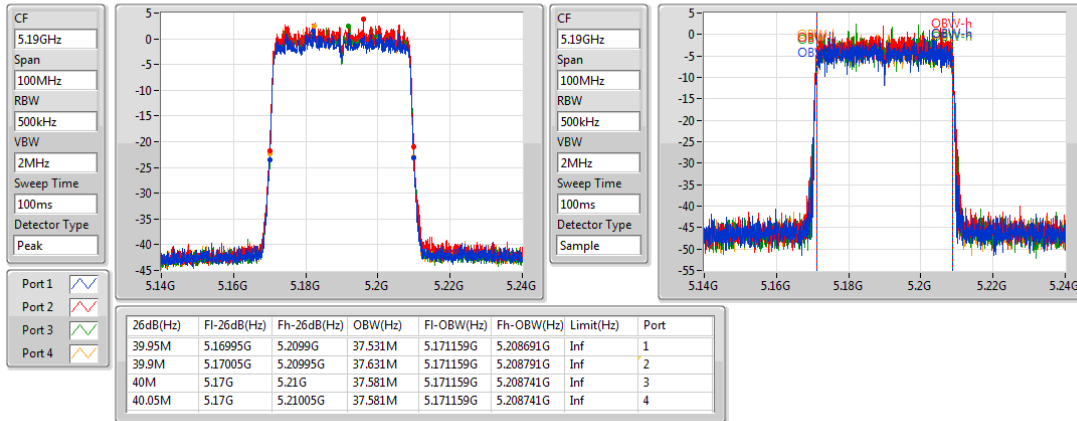


802.11ax HEW40_Nss1,(MCS0)_4TX

EBW

5190MHz

03/03/2019

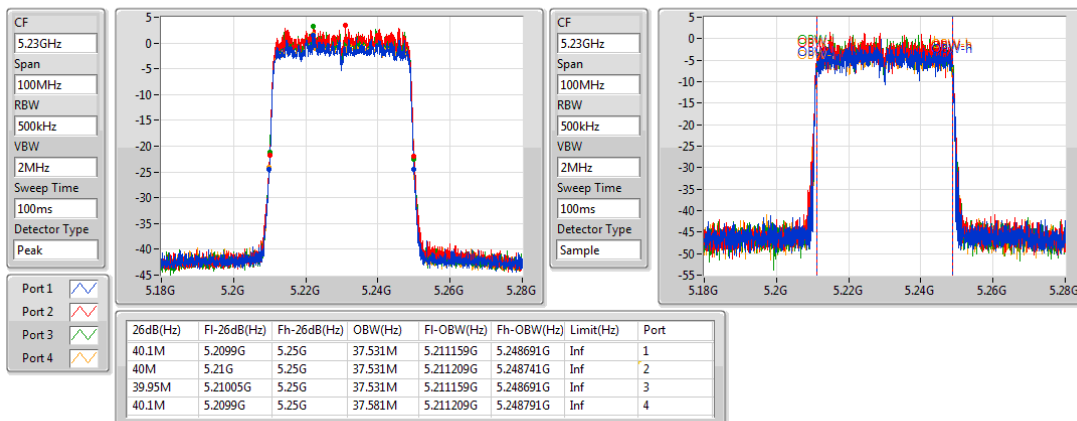


802.11ax HEW40_Nss1,(MCS0)_4TX

EBW

5230MHz

03/03/2019

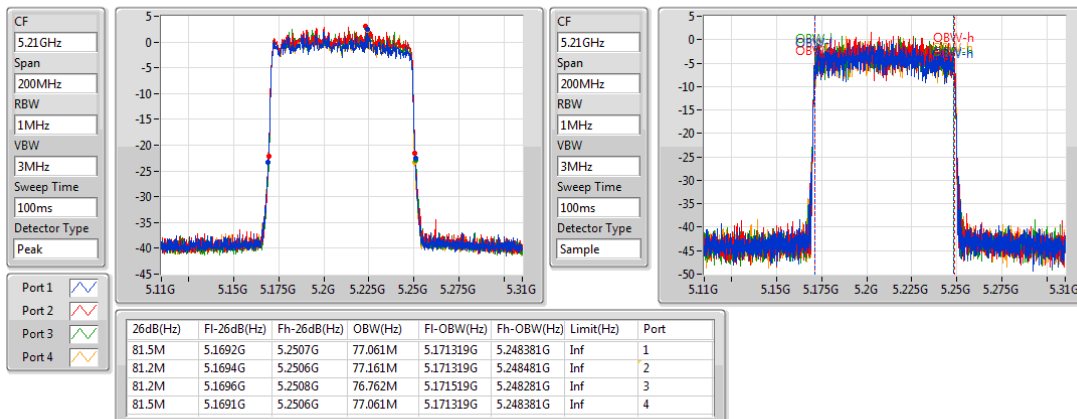


802.11ax HEW80_Nss1,(MCS0)_4TX

EBW

5210MHz

03/03/2019



**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	21.9M	18.991M	19M0D1D	21.325M	18.941M
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	40.2M	37.681M	37M7D1D	40M	37.531M
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	81.7M	77.261M	77M3D1D	81.4M	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	21.65M	18.966M	21.55M	18.991M	21.7M	18.966M	21.475M	18.966M
5200MHz	Pass	Inf	21.675M	18.991M	21.625M	18.991M	21.9M	18.966M	21.45M	18.966M
5240MHz	Pass	Inf	21.75M	18.966M	21.725M	18.966M	21.875M	18.966M	21.325M	18.941M
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	Inf	40.15M	37.531M	40.1M	37.631M	40.2M	37.531M	40.1M	37.581M
5230MHz	Pass	Inf	40M	37.581M	40.15M	37.581M	40.05M	37.681M	40.1M	37.631M
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	Inf	81.6M	77.261M	81.4M	76.962M	81.6M	77.161M	81.7M	77.061M

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

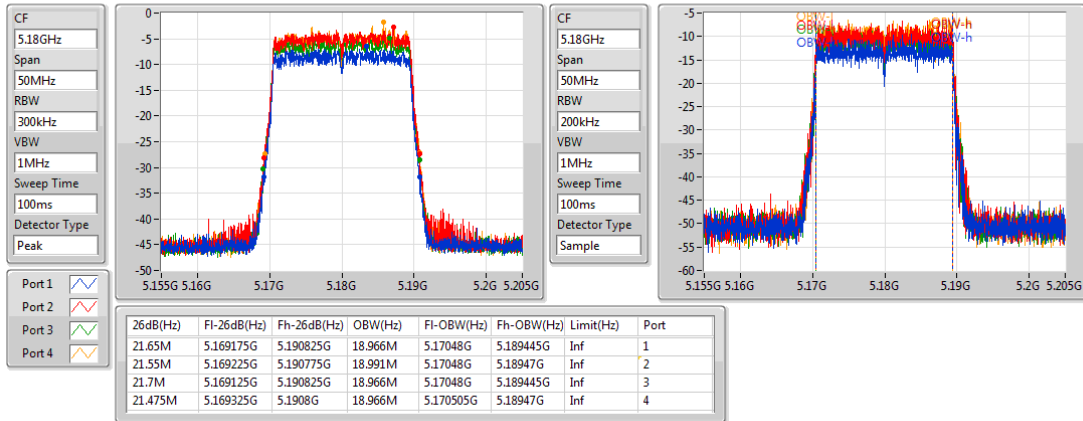
Port X-OBW = Port X 99% occupied bandwidth;

802.11ax HEW20-BF_Nss1,(MCS0)_4TX

EBW

5180MHz

03/03/2019

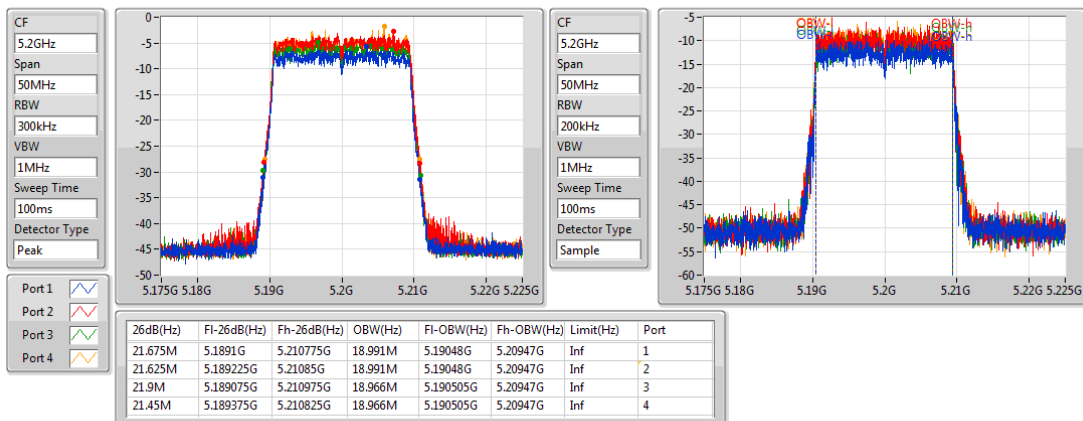


802.11ax HEW20-BF_Nss1,(MCS0)_4TX

EBW

5200MHz

03/03/2019

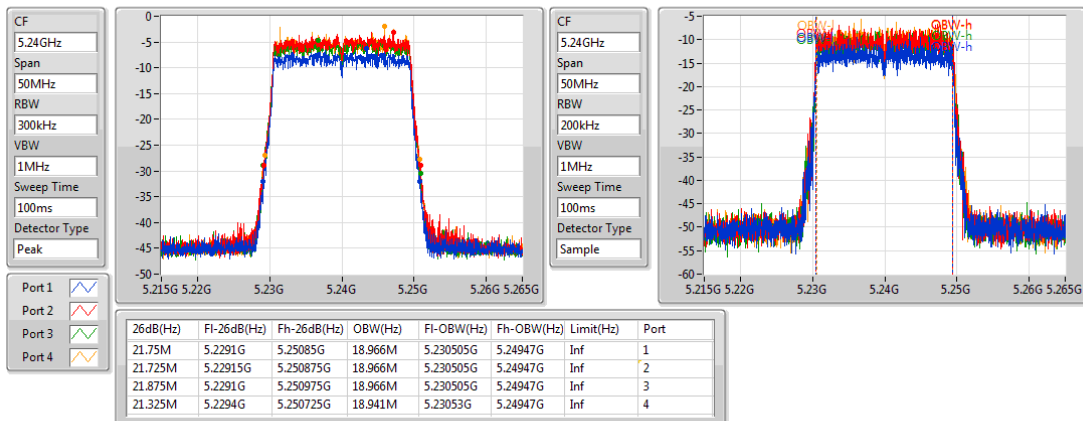


802.11ax HEW20-BF_Nss1,(MCS0)_4TX

EBW

5240MHz

03/03/2019

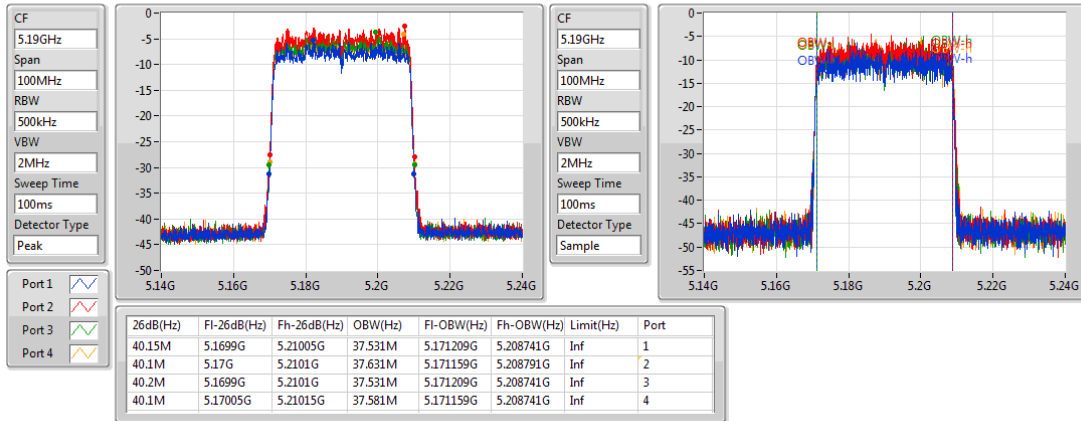


802.11ax HEW40-BF_Nss1,(MCS0)_4TX

EBW

5190MHz

03/03/2019

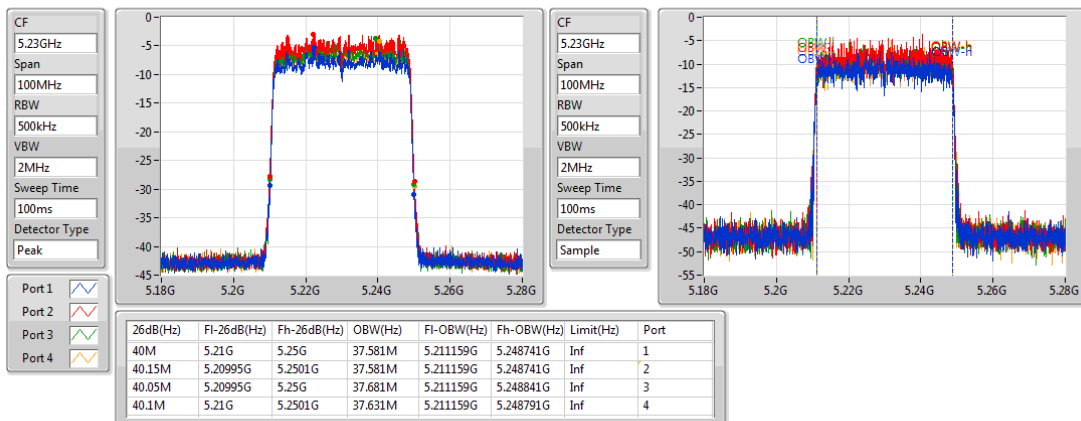


802.11ax HEW40-BF_Nss1,(MCS0)_4TX

EBW

5230MHz

03/03/2019

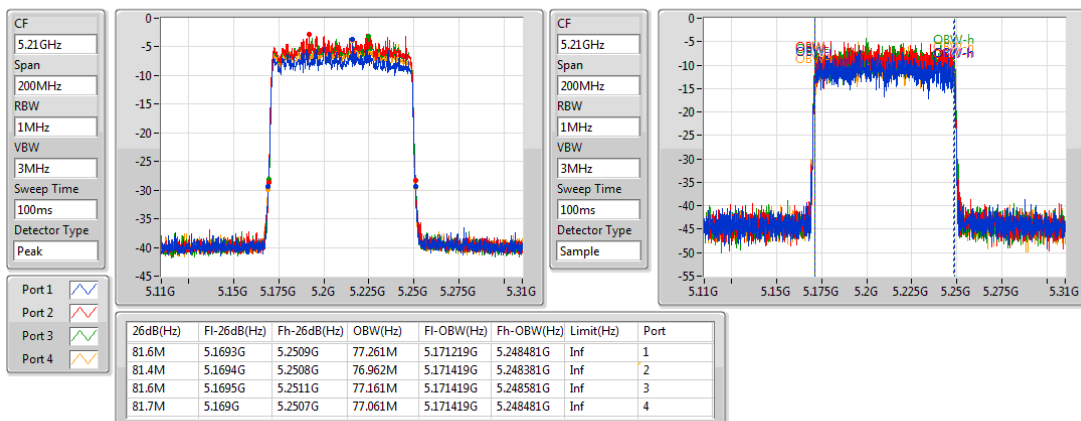


802.11ax HEW80-BF_Nss1,(MCS0)_4TX

EBW

5210MHz

03/03/2019





EBW Result_Radio 2

Appendix B.50

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	21.875M	18.991M	19MOD1D	21.325M	18.916M
802.11ax HEW40_Nss4,(MCS0)_4TX	40.3M	37.631M	37M6D1D	40.05M	37.481M
802.11ax HEW80_Nss4,(MCS0)_4TX	81.9M	77.061M	77M1D1D	81.3M	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;

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	21.775M	18.966M	21.775M	18.966M	21.875M	18.966M	21.325M	18.941M
5200MHz	Pass	Inf	21.85M	18.966M	21.825M	18.966M	21.85M	18.941M	21.5M	18.991M
5240MHz	Pass	Inf	21.825M	18.941M	21.825M	18.966M	21.825M	18.916M	21.425M	18.941M
802.11ax HEW40_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	Inf	40.3M	37.581M	40.2M	37.581M	40.15M	37.481M	40.2M	37.631M
5230MHz	Pass	Inf	40.25M	37.481M	40.2M	37.581M	40.05M	37.481M	40.15M	37.631M
802.11ax HEW80_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	Inf	81.3M	76.862M	81.7M	77.061M	81.8M	77.061M	81.9M	77.061M

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

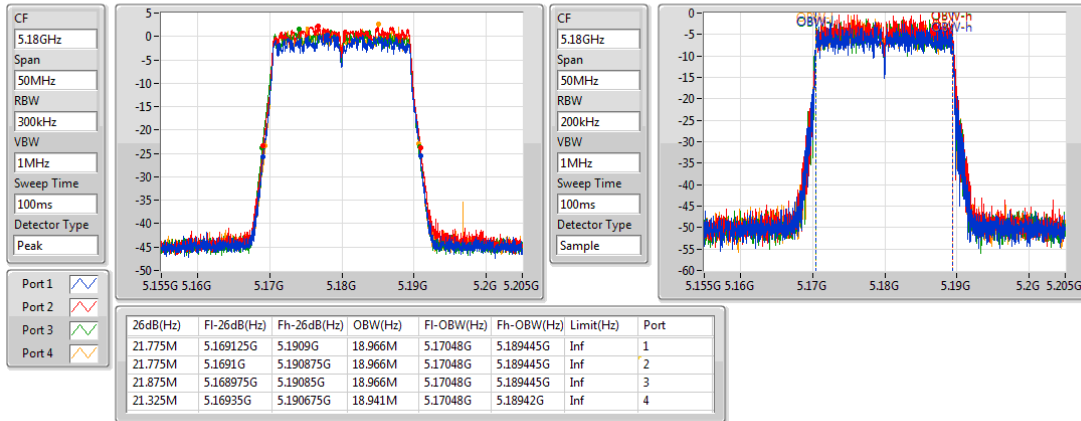
Port X-OBW = Port X 99% occupied bandwidth;

802.11ax HEW20_Nss4,(MCS0)_4TX

EBW

5180MHz

03/03/2019

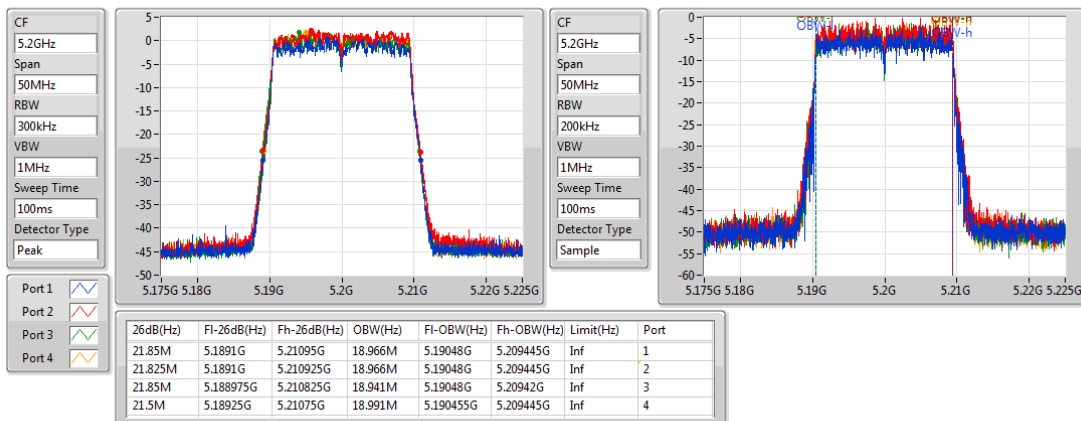


802.11ax HEW20_Nss4,(MCS0)_4TX

EBW

5200MHz

03/03/2019

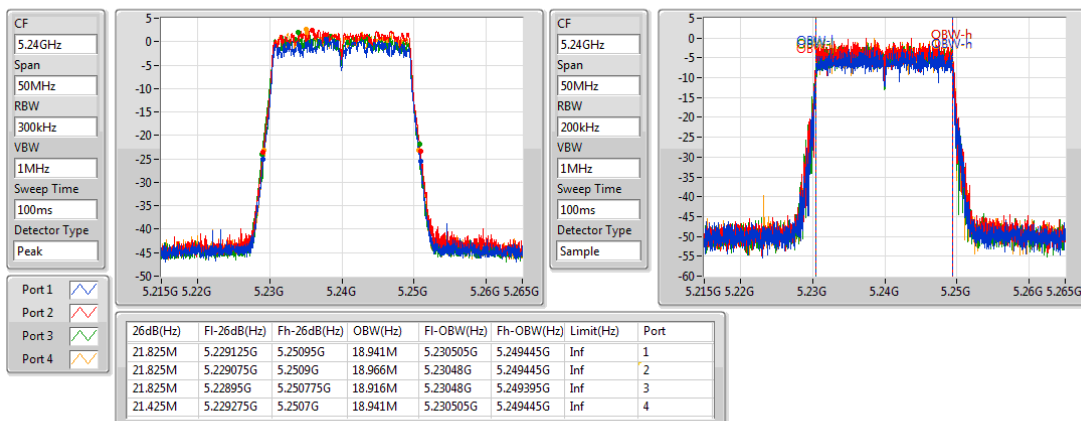


802.11ax HEW20_Nss4,(MCS0)_4TX

EBW

5240MHz

03/03/2019

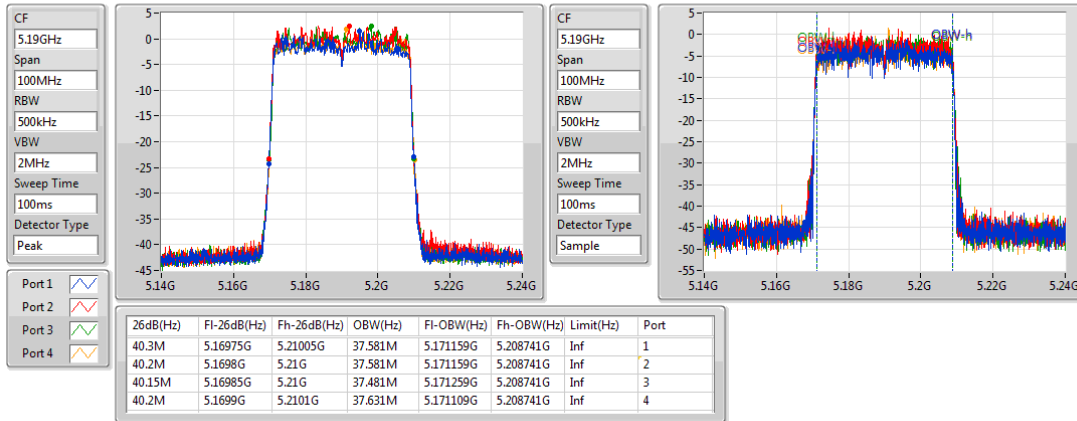


802.11ax HEW40_Nss4,(MCS0)_4TX

EBW

5190MHz

03/03/2019

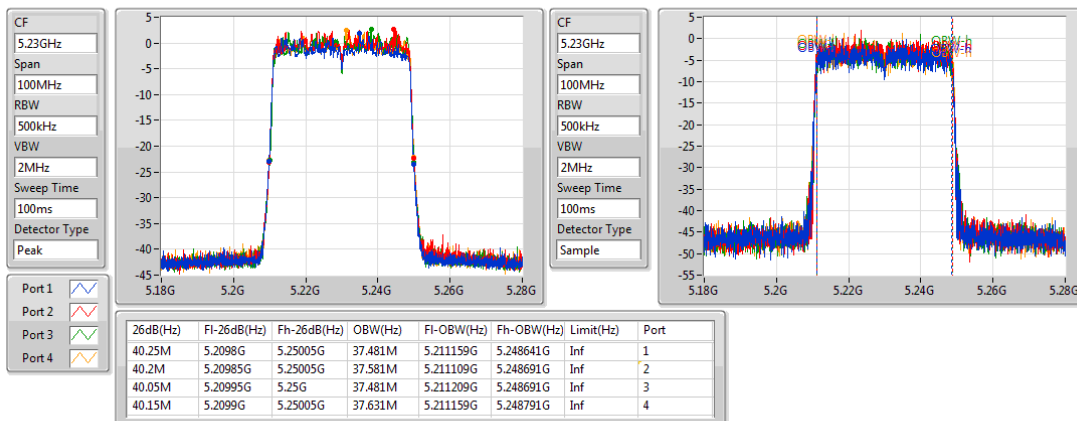


802.11ax HEW40_Nss4,(MCS0)_4TX

EBW

5230MHz

03/03/2019

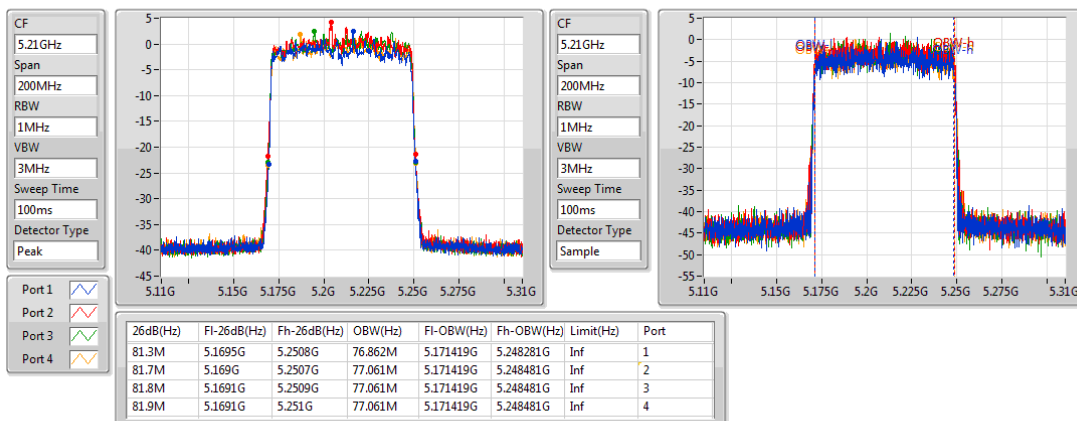


802.11ax HEW80_Nss4,(MCS0)_4TX

EBW

5210MHz

03/03/2019



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	27.35M	16.617M	16M6D1D	21.625M	16.617M
802.11ax HEW20_Nss1,(MCS0)_1TX	36.425M	19.015M	19M0D1D	23.175M	18.941M
802.11ax HEW40_Nss1,(MCS0)_1TX	47M	37.581M	37M6D1D	39.95M	37.481M
802.11ax HEW80_Nss1,(MCS0)_1TX	81.7M	76.962M	77M0D1D	81.7M	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	21.625M	16.617M
5200MHz	Pass	Inf	27.2M	16.617M
5240MHz	Pass	Inf	27.35M	16.617M
802.11ax HEW20_Nss1,(MCS0)_1TX	-	-	-	-
5180MHz	Pass	Inf	23.175M	18.941M
5200MHz	Pass	Inf	36.4M	19.015M
5240MHz	Pass	Inf	36.425M	19.015M
802.11ax HEW40_Nss1,(MCS0)_1TX	-	-	-	-
5190MHz	Pass	Inf	39.95M	37.481M
5230MHz	Pass	Inf	47M	37.581M
802.11ax HEW80_Nss1,(MCS0)_1TX	-	-	-	-
5210MHz	Pass	Inf	81.7M	76.962M

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

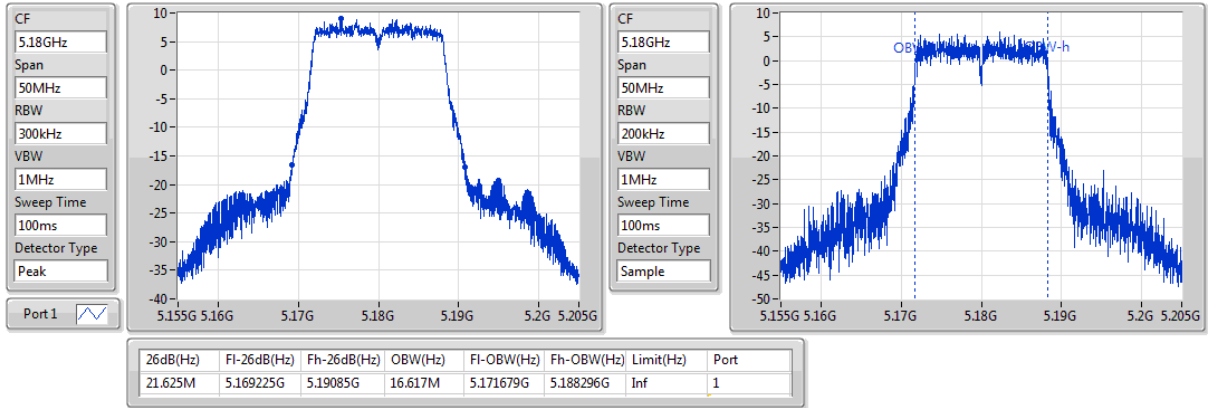
Port X-OBW = Port X 99% occupied bandwidth;

802.11a_Nss1,(6Mbps)_1TX

EBW

5180MHz

24/01/2019

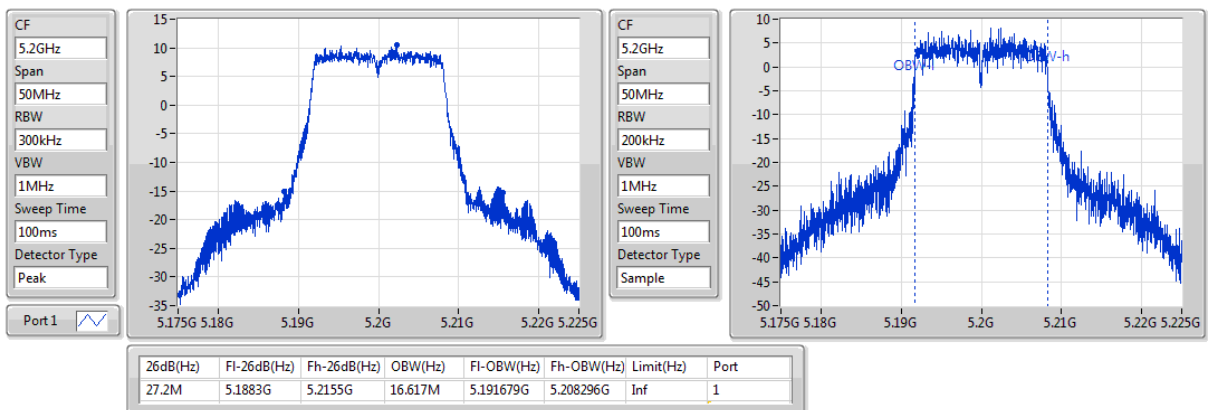


802.11a_Nss1,(6Mbps)_1TX

EBW

5200MHz

24/01/2019

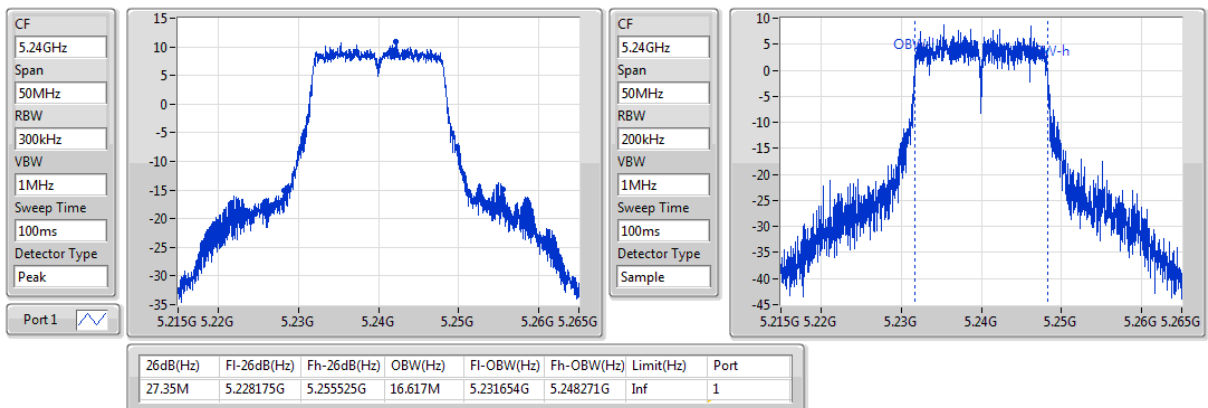


802.11a_Nss1,(6Mbps)_1TX

EBW

5240MHz

24/01/2019

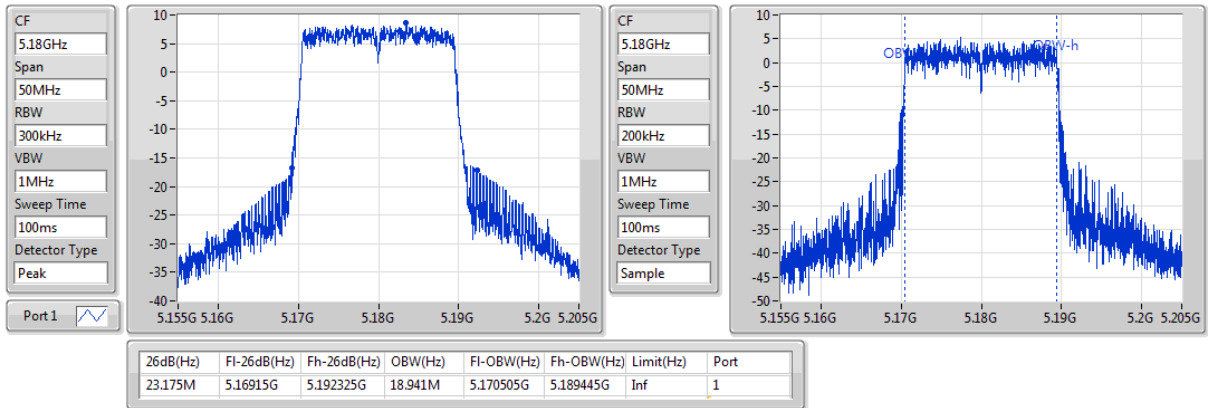


802.11ax HEW20_Nss1,(MCS0)_1TX

EBW

5180MHz

24/01/2019

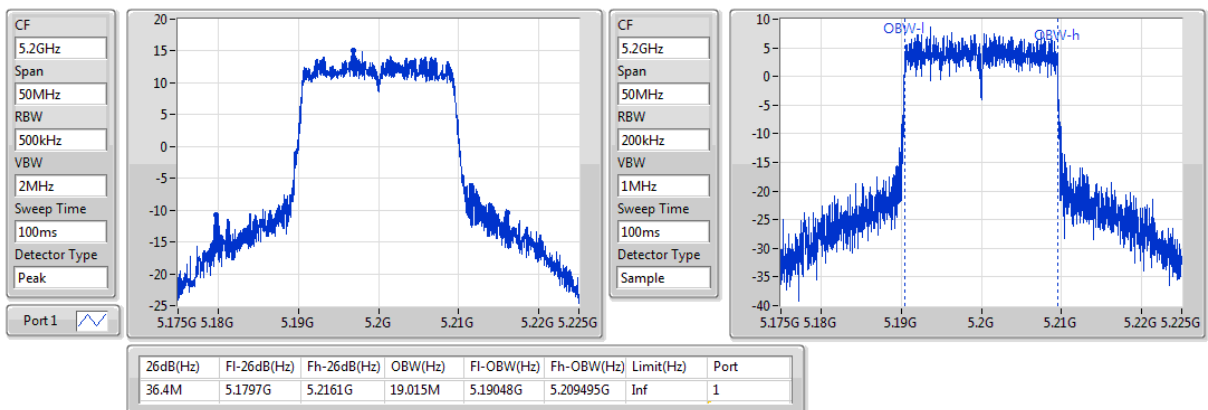


802.11ax HEW20_Nss1,(MCS0)_1TX

EBW

5200MHz

24/01/2019

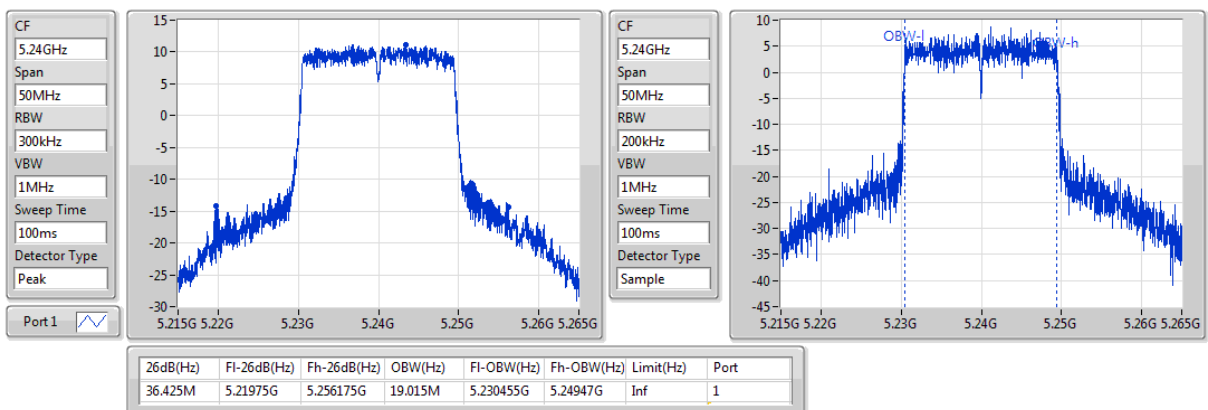


802.11ax HEW20_Nss1,(MCS0)_1TX

EBW

5240MHz

24/01/2019

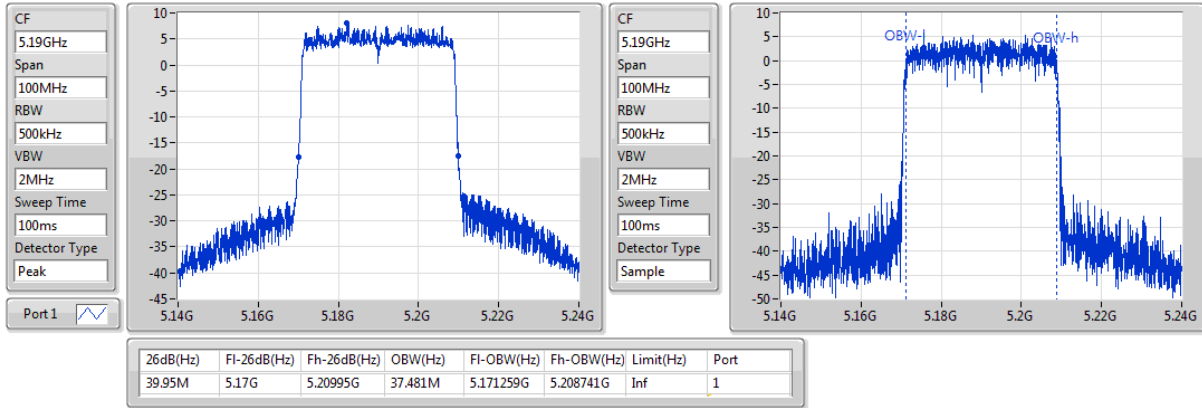


802.11ax HEW40_Nss1,(MCS0)_1TX

EBW

5190MHz

24/01/2019

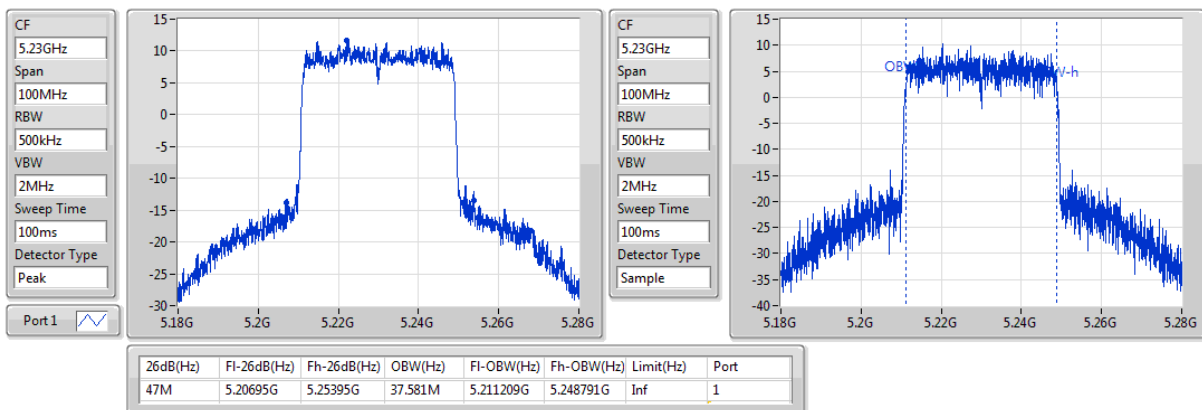


802.11ax HEW40_Nss1,(MCS0)_1TX

EBW

5230MHz

24/01/2019

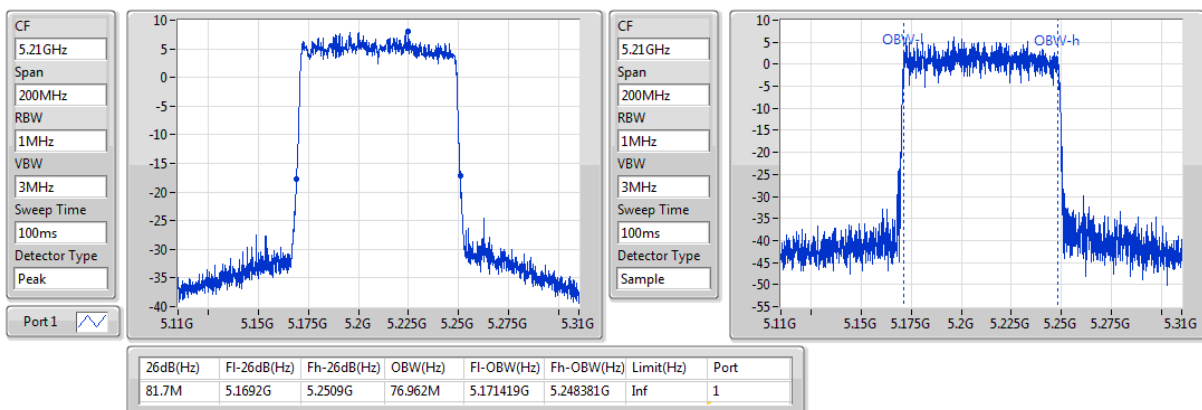


802.11ax HEW80_Nss1,(MCS0)_1TX

EBW

5210MHz

24/01/2019





EBW Result_Radio 2

Appendix B.52

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	28.65M	19.015M	19M0D1D	21.55M	18.966M
802.11ax HEW40_Nss2,(MCS0)_2TX	43.1M	37.731M	37M7D1D	39.9M	37.481M
802.11ax HEW80_Nss2,(MCS0)_2TX	81.6M	76.962M	77M0D1D	81M	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 2

Appendix B.52

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	21.825M	18.966M	21.55M	18.966M
5200MHz	Pass	Inf	26.15M	19.015M	23.925M	18.991M
5240MHz	Pass	Inf	27.95M	18.991M	28.65M	18.991M
802.11ax HEW40_Nss2,(MCS0)_2TX	-	-	-	-	-	-
5190MHz	Pass	Inf	39.9M	37.481M	40M	37.531M
5230MHz	Pass	Inf	43.1M	37.731M	40M	37.531M
802.11ax HEW80_Nss2,(MCS0)_2TX	-	-	-	-	-	-
5210MHz	Pass	Inf	81.6M	76.862M	81M	76.962M

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

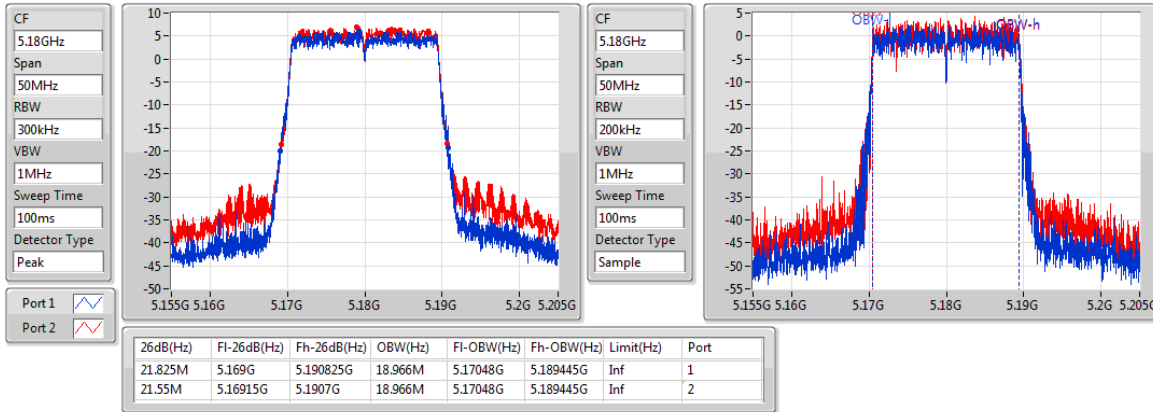
Port X-OBW = Port X 99% occupied bandwidth;

802.11ax HEW20_Nss2,(MCS0)_2TX

EBW

5180MHz

24/01/2019

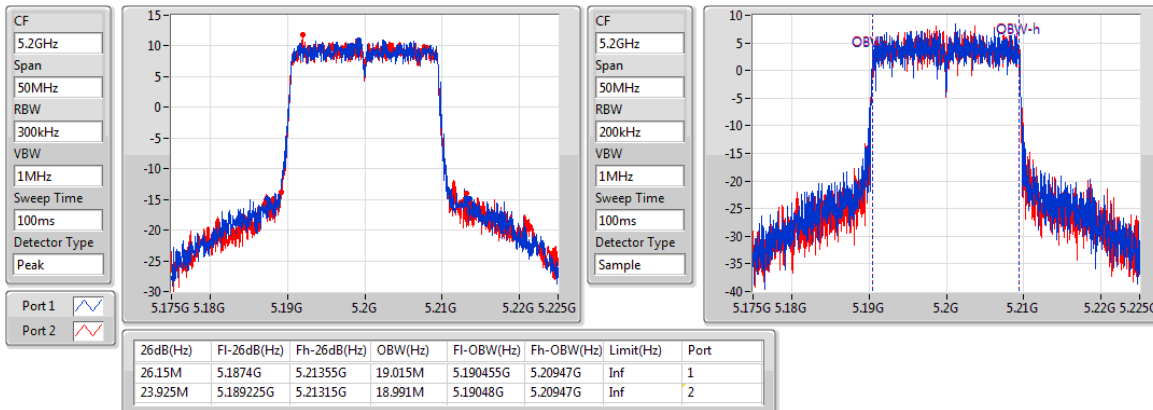


802.11ax HEW20_Nss2,(MCS0)_2TX

EBW

5200MHz

24/01/2019

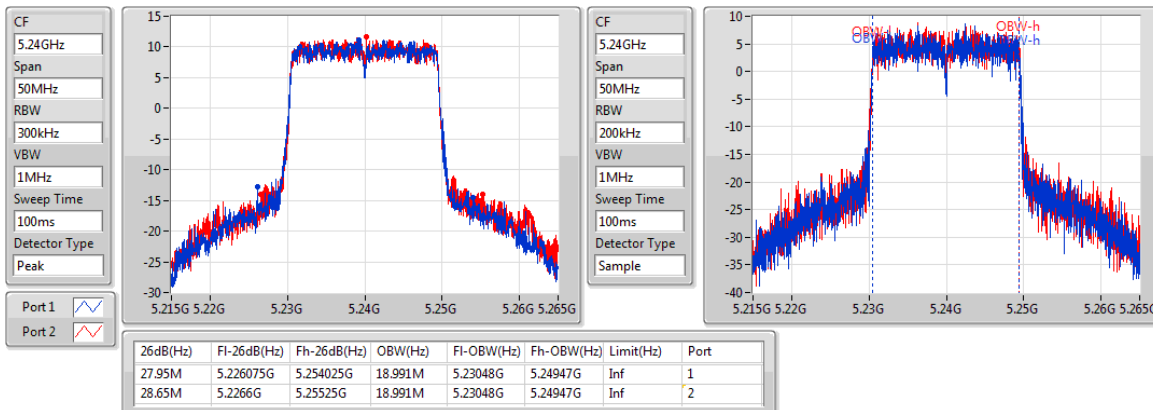


802.11ax HEW20_Nss2,(MCS0)_2TX

EBW

5240MHz

24/01/2019

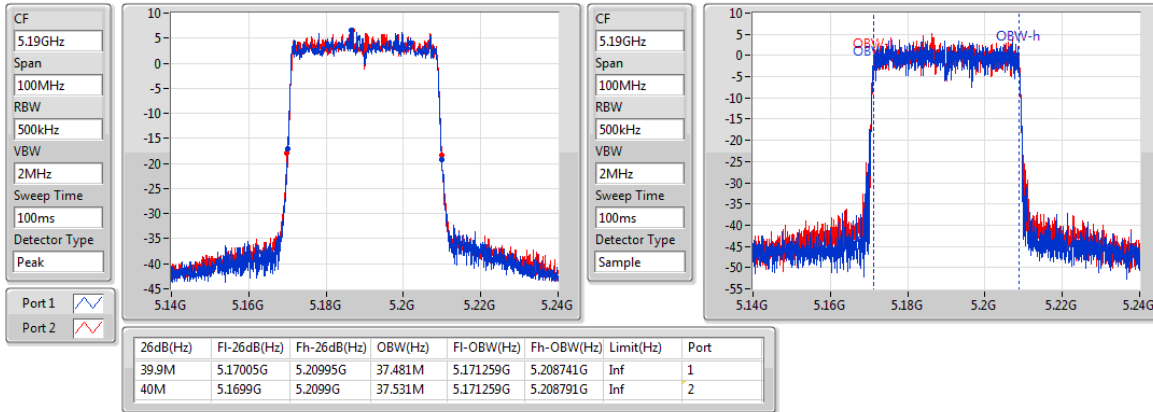


802.11ax HEW40_Nss2,(MCS0)_2TX

EBW

5190MHz

24/01/2019

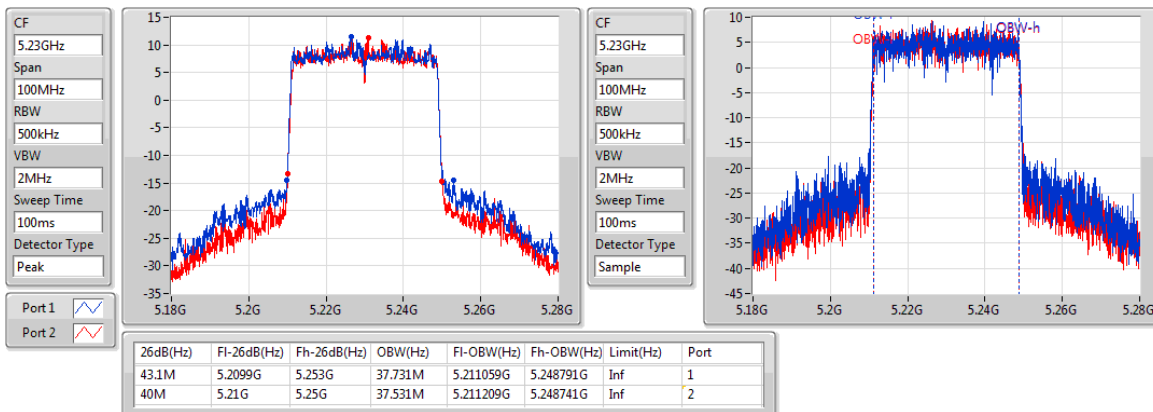


802.11ax HEW40_Nss2,(MCS0)_2TX

EBW

5230MHz

24/01/2019

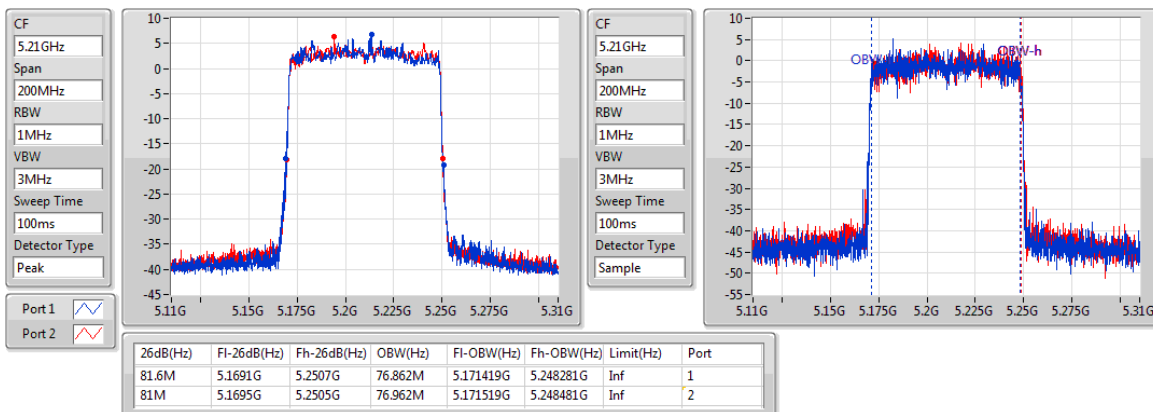


802.11ax HEW80_Nss2,(MCS0)_2TX

EBW

5210MHz

24/01/2019



**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	28.05M	16.667M	16M7D1D	21.4M	16.492M
802.11ax HEW20_Nss1,(MCS0)_4TX	26.3M	18.991M	19M0D1D	21.375M	18.916M
802.11ax HEW40_Nss1,(MCS0)_4TX	40.15M	37.631M	37M6D1D	39.95M	37.431M
802.11ax HEW80_Nss1,(MCS0)_4TX	81.6M	77.061M	77M1D1D	81.2M	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;

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	21.6M	16.542M	21.6M	16.592M	21.625M	16.592M	21.4M	16.567M
5200MHz	Pass	Inf	21.8M	16.617M	22.3M	16.567M	26.375M	16.617M	22.05M	16.492M
5240MHz	Pass	Inf	27.225M	16.617M	26.175M	16.617M	28.05M	16.667M	27.325M	16.617M
802.11ax HEW20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	Inf	21.65M	18.916M	21.775M	18.966M	21.775M	18.941M	21.375M	18.966M
5200MHz	Pass	Inf	25.525M	18.966M	25.1M	18.991M	25.875M	18.991M	22.725M	18.966M
5240MHz	Pass	Inf	26.2M	18.966M	24.3M	18.991M	26.3M	18.991M	23.075M	18.991M
802.11ax HEW40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	Inf	40M	37.581M	40M	37.481M	40M	37.631M	40.05M	37.431M
5230MHz	Pass	Inf	39.95M	37.581M	40.1M	37.531M	40.15M	37.531M	40.1M	37.581M
802.11ax HEW80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	Inf	81.6M	76.962M	81.5M	76.762M	81.2M	77.061M	81.4M	76.962M

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

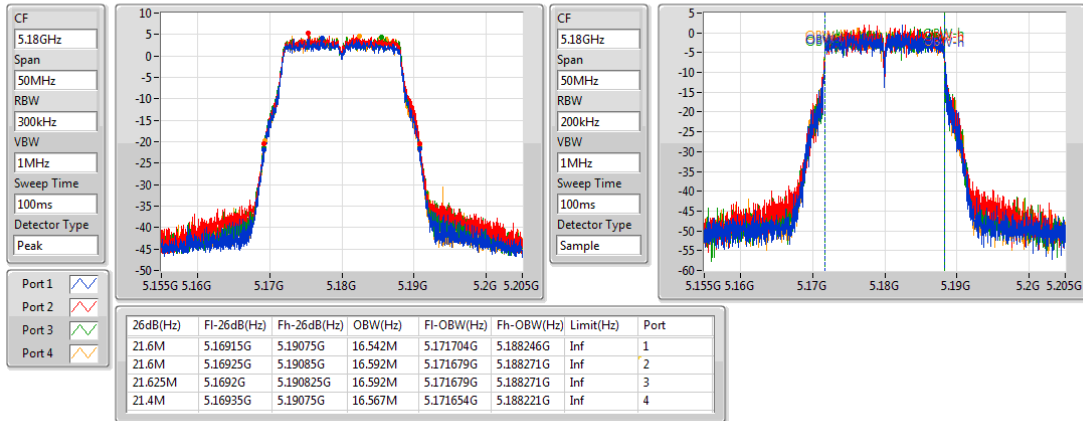
Port X-OBW = Port X 99% occupied bandwidth;

802.11a_Nss1,(6Mbps)_4TX

EBW

5180MHz

24/01/2019

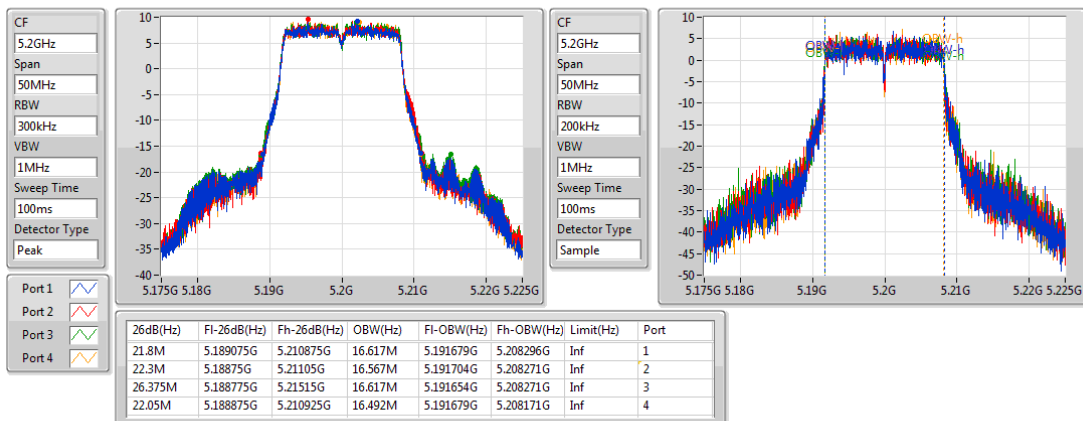


802.11a_Nss1,(6Mbps)_4TX

EBW

5200MHz

24/01/2019

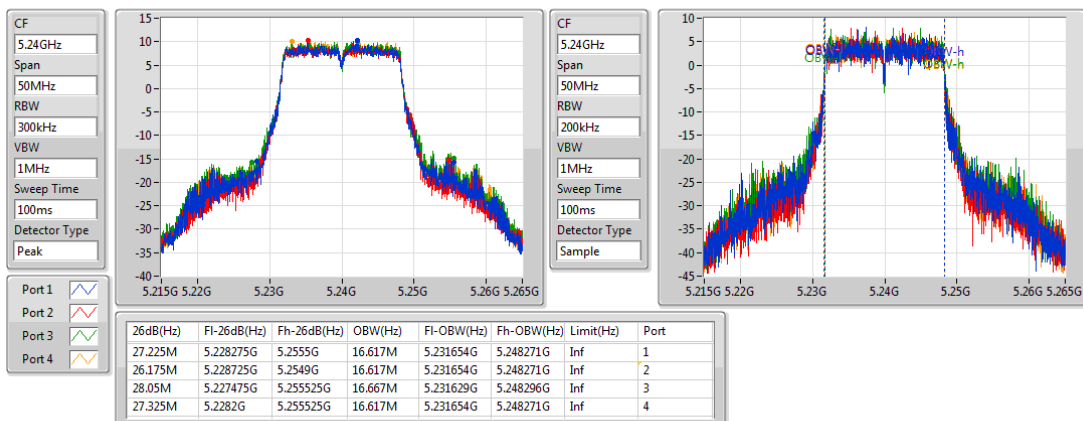


802.11a_Nss1,(6Mbps)_4TX

EBW

5240MHz

24/01/2019

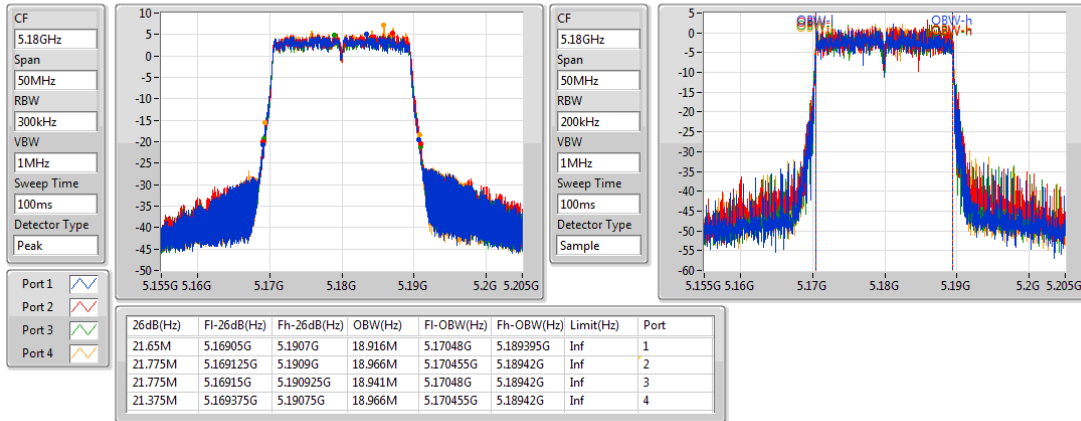


802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

5180MHz

24/01/2019

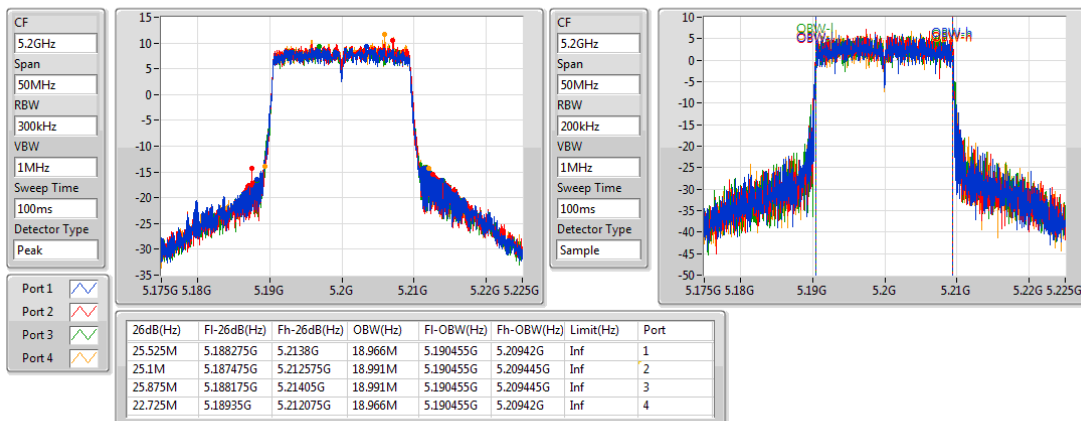


802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

5200MHz

24/01/2019

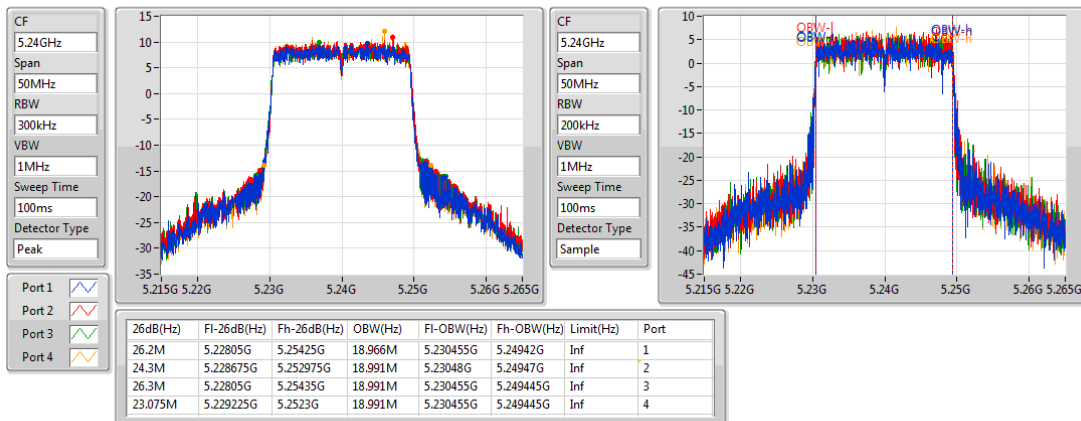


802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

5240MHz

24/01/2019

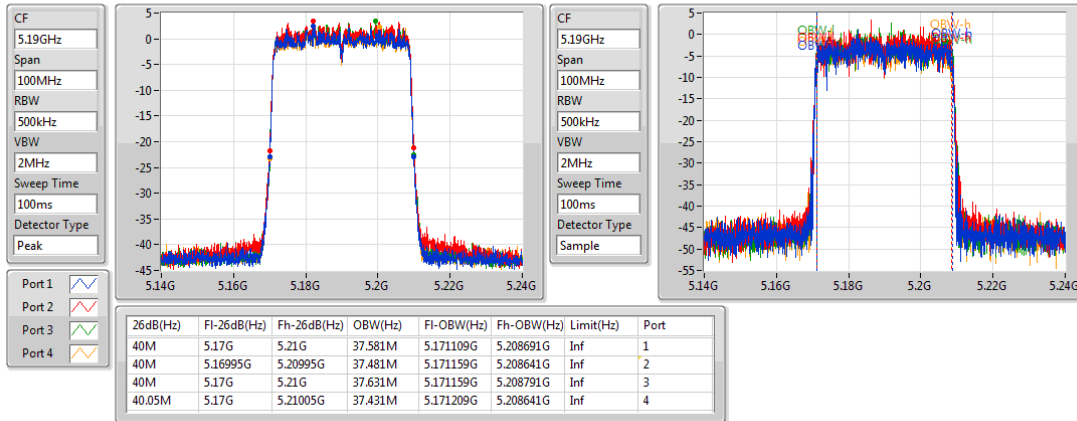


802.11ax HEW40_Nss1,(MCS0)_4TX

EBW

5190MHz

24/01/2019

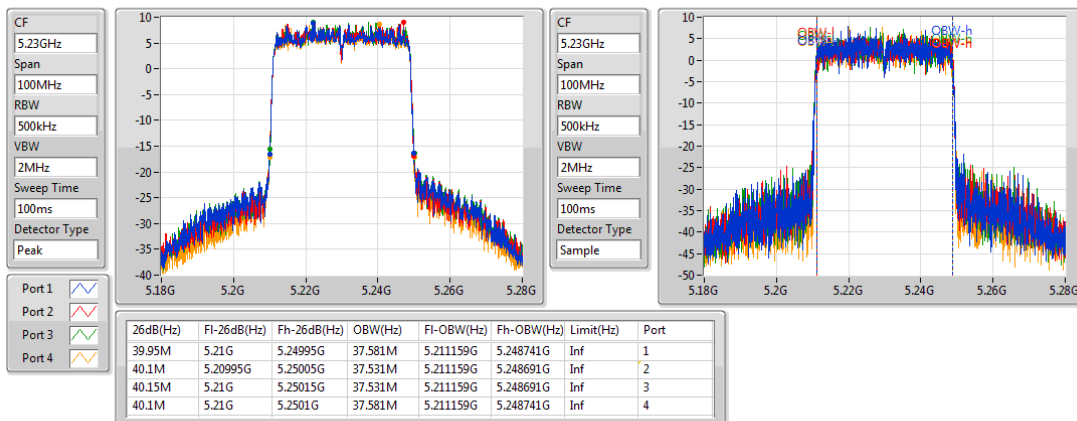


802.11ax HEW40_Nss1,(MCS0)_4TX

EBW

5230MHz

24/01/2019

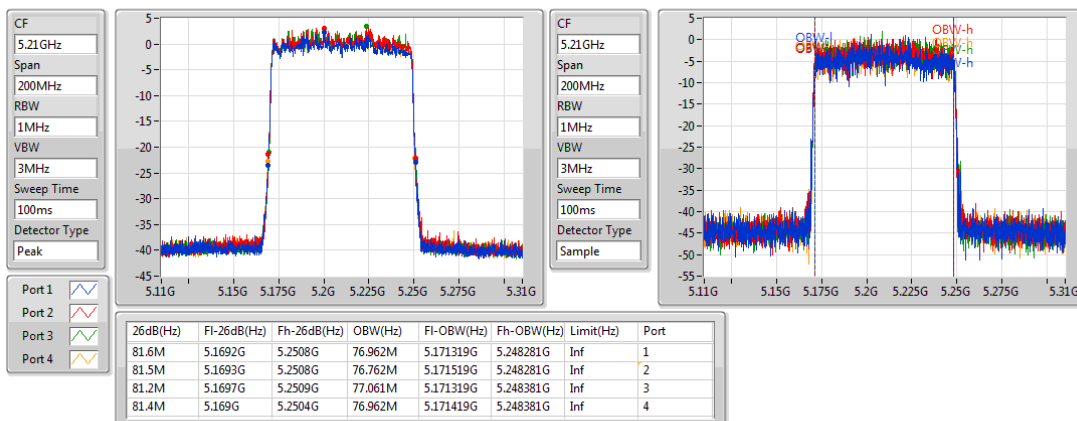


802.11ax HEW80_Nss1,(MCS0)_4TX

EBW

5210MHz

24/01/2019





EBW Result_Radio 2

Appendix B.54

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	22.2M	18.991M	19M0D1D	21.325M	18.941M
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	40.35M	37.681M	37M7D1D	39.85M	37.431M
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	82.2M	77.161M	77M2D1D	81.6M	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	21.575M	18.941M	21.525M	18.966M	21.8M	18.941M	21.75M	18.941M
5200MHz	Pass	Inf	21.325M	18.941M	21.8M	18.941M	21.55M	18.991M	21.8M	18.966M
5240MHz	Pass	Inf	21.35M	18.991M	22.2M	18.991M	21.525M	18.966M	21.75M	18.966M
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	Inf	40.15M	37.531M	39.85M	37.631M	40M	37.581M	40.05M	37.431M
5230MHz	Pass	Inf	40.2M	37.531M	40.35M	37.681M	40.15M	37.581M	39.95M	37.481M
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	Inf	82.2M	76.962M	81.8M	77.161M	82M	77.161M	81.6M	77.061M

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

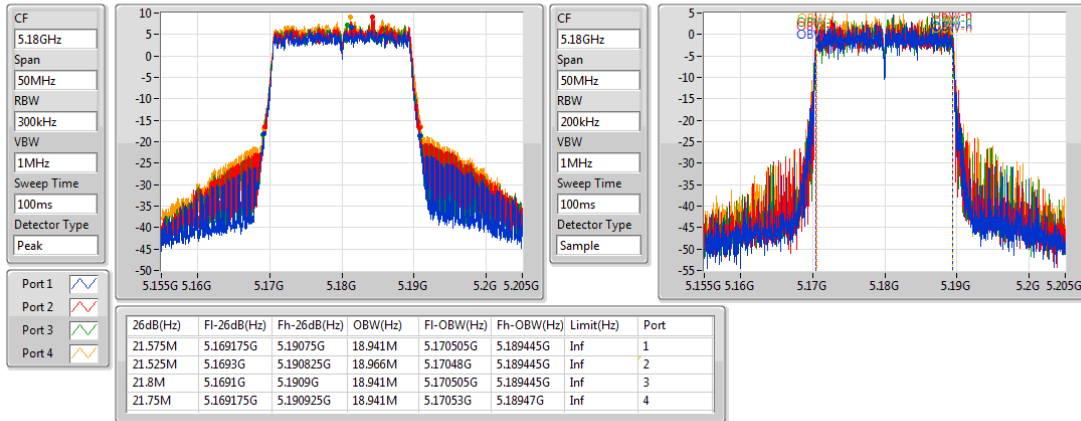
Port X-OBW = Port X 99% occupied bandwidth;

802.11ax HEW20-BF_Nss1,(MCS0)_4TX

EBW

5180MHz

26/01/2019

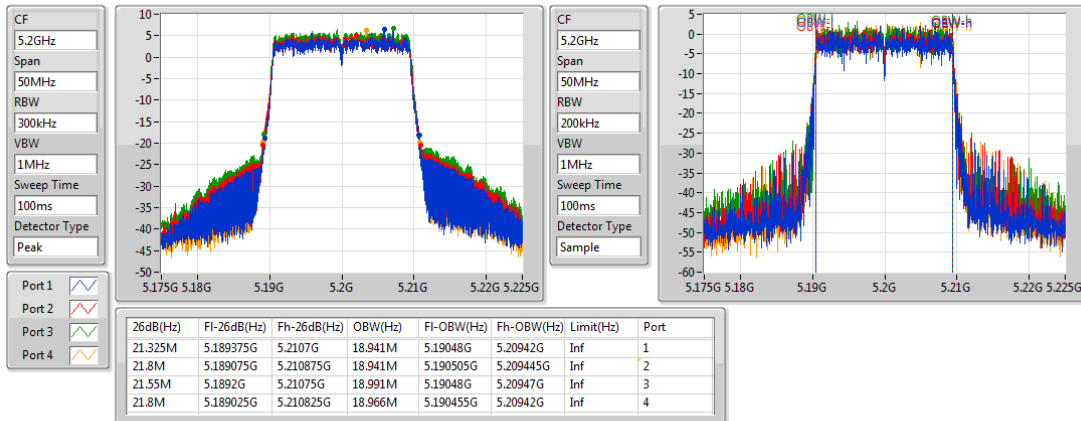


802.11ax HEW20-BF_Nss1,(MCS0)_4TX

EBW

5200MHz

04/03/2019

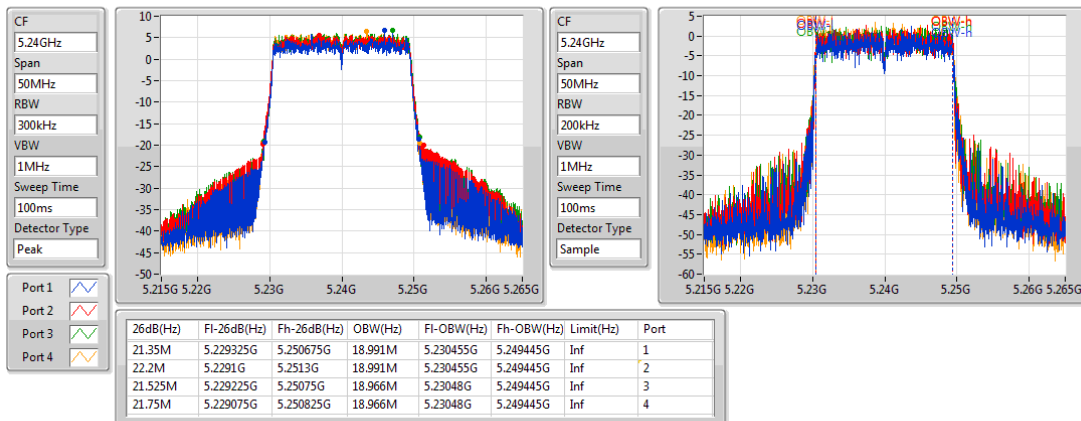


802.11ax HEW20-BF_Nss1,(MCS0)_4TX

EBW

5240MHz

04/03/2019

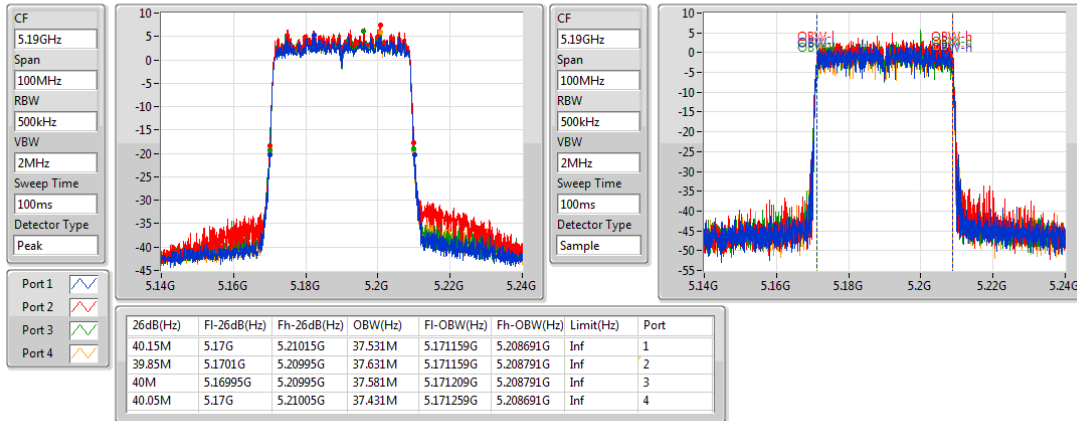


802.11ax HEW40-BF_Nss1,(MCS0)_4TX

EBW

5190MHz

26/01/2019

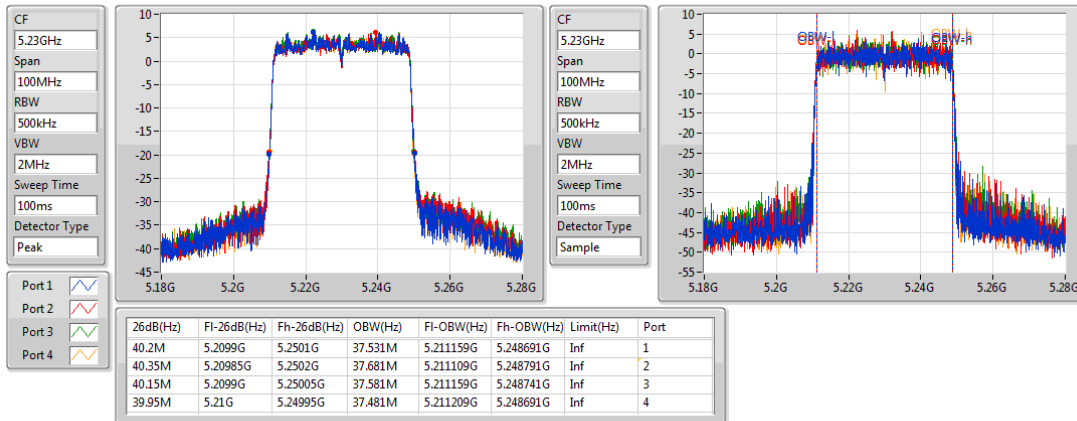


802.11ax HEW40-BF_Nss1,(MCS0)_4TX

EBW

5230MHz

04/03/2019

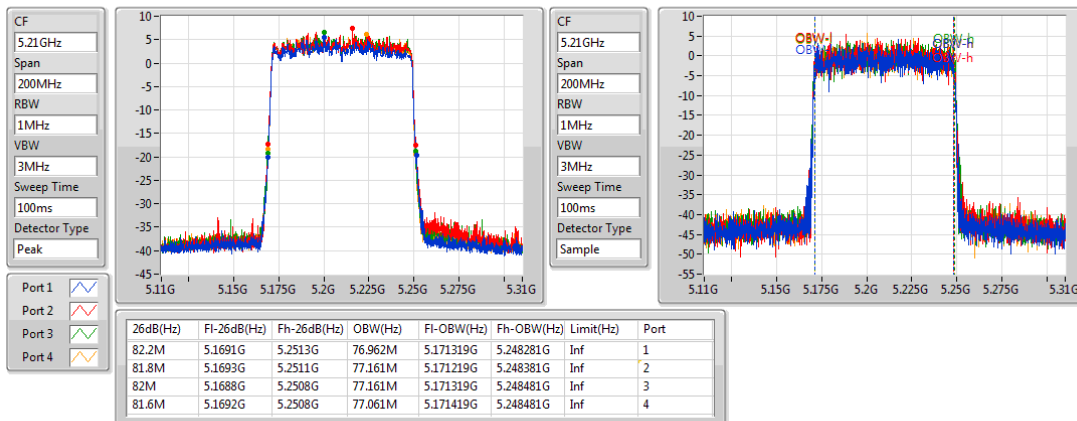


802.11ax HEW80-BF_Nss1,(MCS0)_4TX

EBW

5210MHz

26/01/2019





EBW Result_Radio 2

Appendix B.55

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	30.8M	19.015M	19M0D1D	21.275M	18.916M
802.11ax HEW40_Nss4,(MCS0)_4TX	40.25M	37.731M	37M7D1D	40.05M	37.431M
802.11ax HEW80_Nss4,(MCS0)_4TX	82M	77.061M	77M1D1D	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)	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	21.8M	18.916M	21.75M	18.941M	21.95M	18.916M	21.4M	18.941M
5200MHz	Pass	Inf	22.075M	18.941M	22M	18.966M	21.8M	18.966M	21.275M	18.916M
5240MHz	Pass	Inf	30.45M	18.966M	26.7M	18.991M	30.8M	18.966M	26.25M	19.015M
802.11ax HEW40_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	Inf	40.15M	37.581M	40.05M	37.581M	40.05M	37.431M	40.2M	37.731M
5230MHz	Pass	Inf	40.25M	37.531M	40.05M	37.581M	40.15M	37.431M	40.15M	37.581M
802.11ax HEW80_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	Inf	81.5M	76.962M	81.6M	77.061M	81.7M	76.962M	82M	76.962M

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

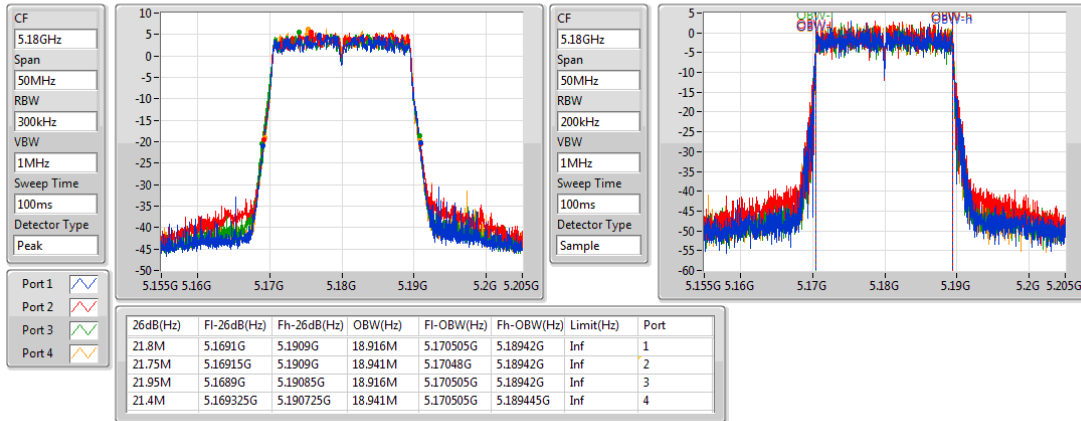
Port X-OBW = Port X 99% occupied bandwidth;

802.11ax HEW20_Nss4,(MCS0)_4TX

EBW

5180MHz

24/01/2019

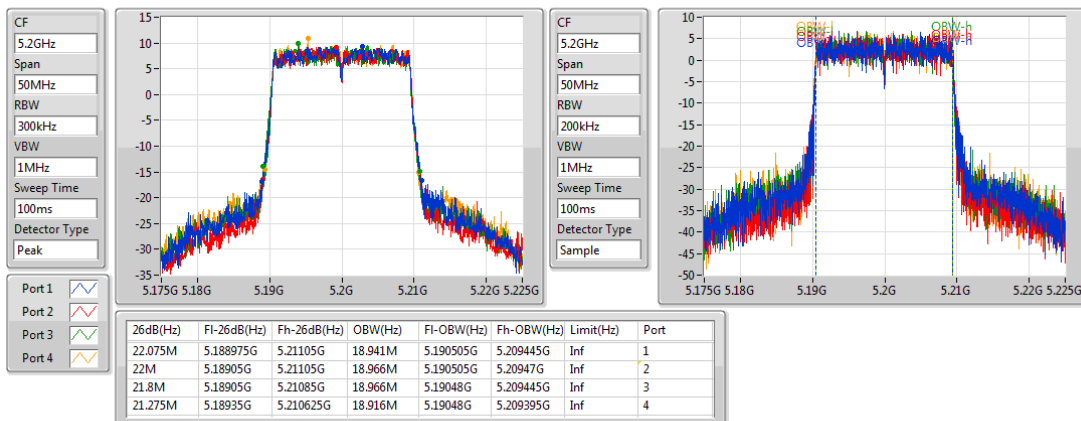


802.11ax HEW20_Nss4,(MCS0)_4TX

EBW

5200MHz

24/01/2019

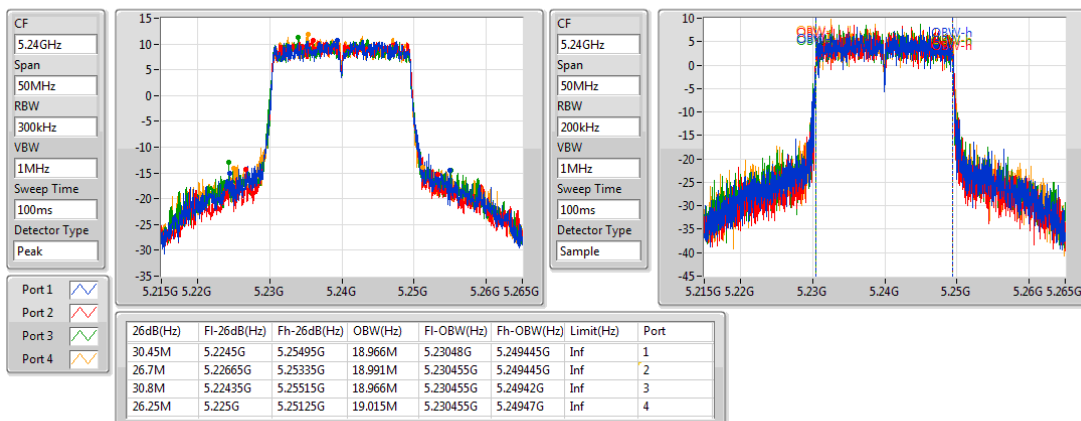


802.11ax HEW20_Nss4,(MCS0)_4TX

EBW

5240MHz

24/01/2019

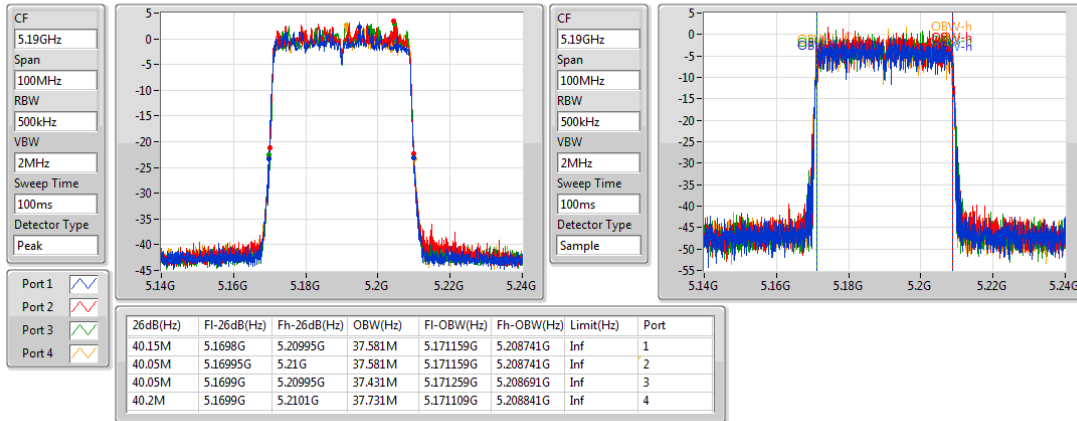


802.11ax HEW40_Nss4,(MCS0)_4TX

EBW

5190MHz

24/01/2019

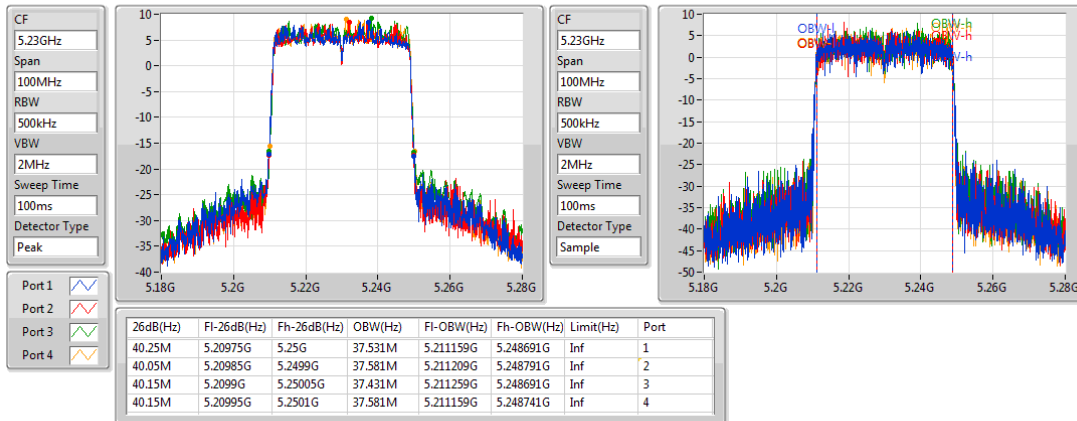


802.11ax HEW40_Nss4,(MCS0)_4TX

EBW

5230MHz

24/01/2019

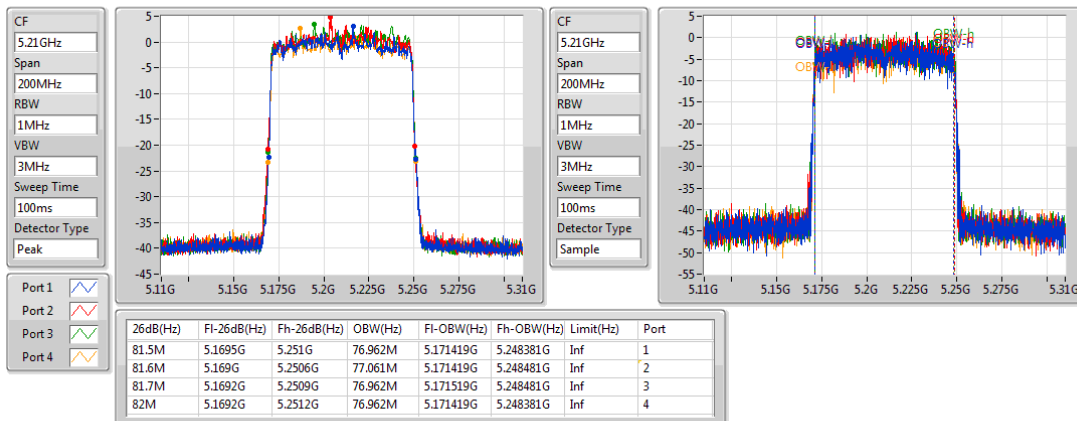


802.11ax HEW80_Nss4,(MCS0)_4TX

EBW

5210MHz

24/01/2019



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	21.55M	16.617M	16M6D1D	21.5M	16.592M
802.11ax HEW20_Nss1,(MCS0)_1TX	21.825M	18.966M	19M0D1D	21.725M	18.941M
802.11ax HEW40_Nss1,(MCS0)_1TX	40.1M	37.531M	37M5D1D	40.05M	37.481M
802.11ax HEW80_Nss1,(MCS0)_1TX	81.7M	76.862M	76M9D1D	81.7M	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;

Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
802.11a_Nss1,(6Mbps)_1TX	-	-	-	-
5180MHz	Pass	Inf	21.55M	16.617M
5200MHz	Pass	Inf	21.5M	16.592M
5240MHz	Pass	Inf	21.5M	16.617M
802.11ax HEW20_Nss1,(MCS0)_1TX	-	-	-	-
5180MHz	Pass	Inf	21.725M	18.941M
5200MHz	Pass	Inf	21.825M	18.966M
5240MHz	Pass	Inf	21.775M	18.966M
802.11ax HEW40_Nss1,(MCS0)_1TX	-	-	-	-
5190MHz	Pass	Inf	40.1M	37.531M
5230MHz	Pass	Inf	40.05M	37.481M
802.11ax HEW80_Nss1,(MCS0)_1TX	-	-	-	-
5210MHz	Pass	Inf	81.7M	76.862M

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

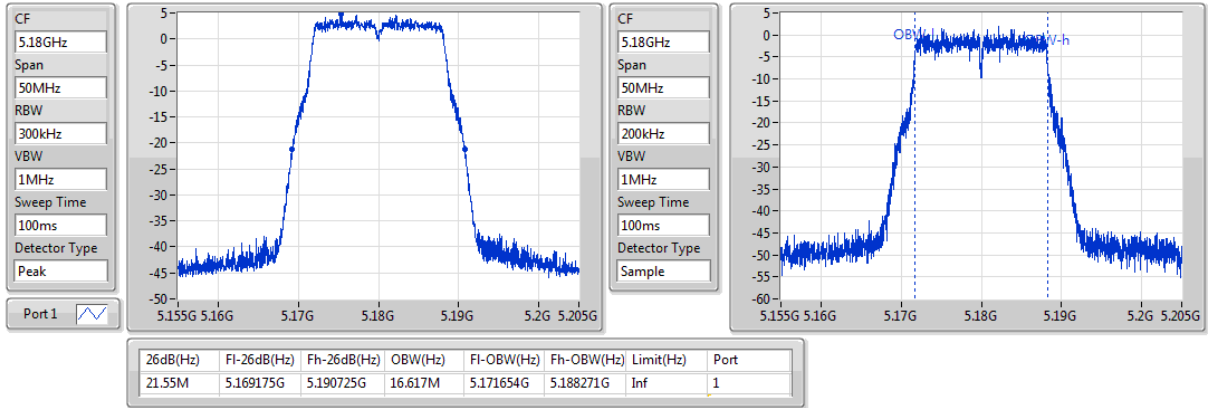
Port X-OBW = Port X 99% occupied bandwidth;

802.11a_Nss1,(6Mbps)_1TX

EBW

5180MHz

02/03/2019

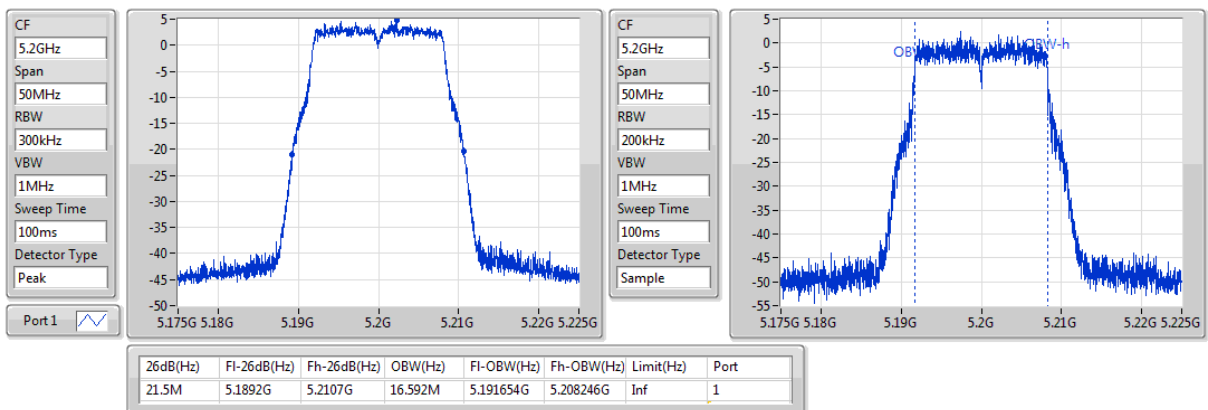


802.11a_Nss1,(6Mbps)_1TX

EBW

5200MHz

02/03/2019

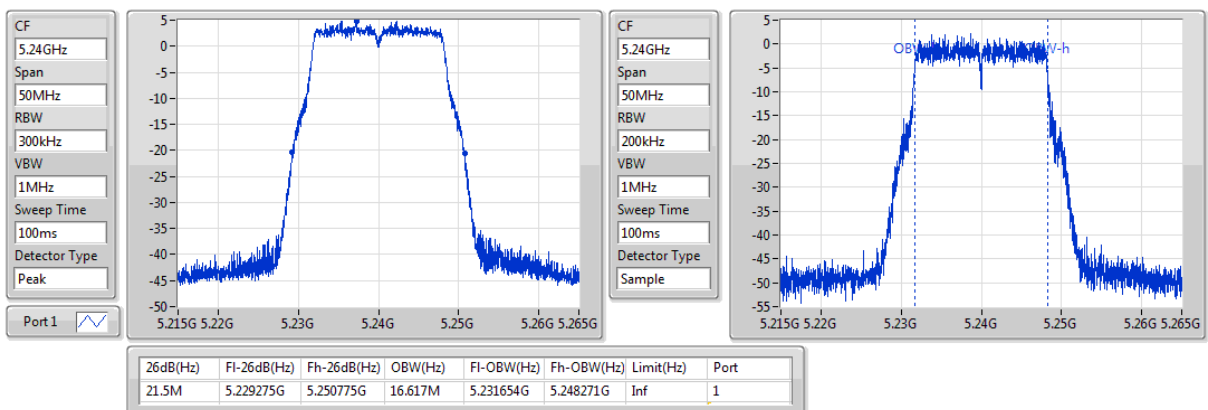


802.11a_Nss1,(6Mbps)_1TX

EBW

5240MHz

02/03/2019

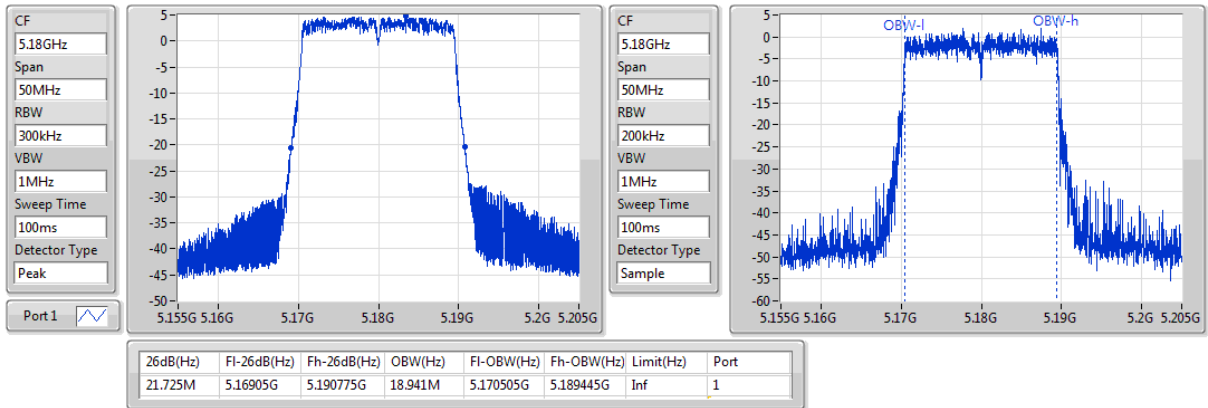


802.11ax HEW20_Nss1,(MCS0)_1TX

EBW

5180MHz

02/03/2019

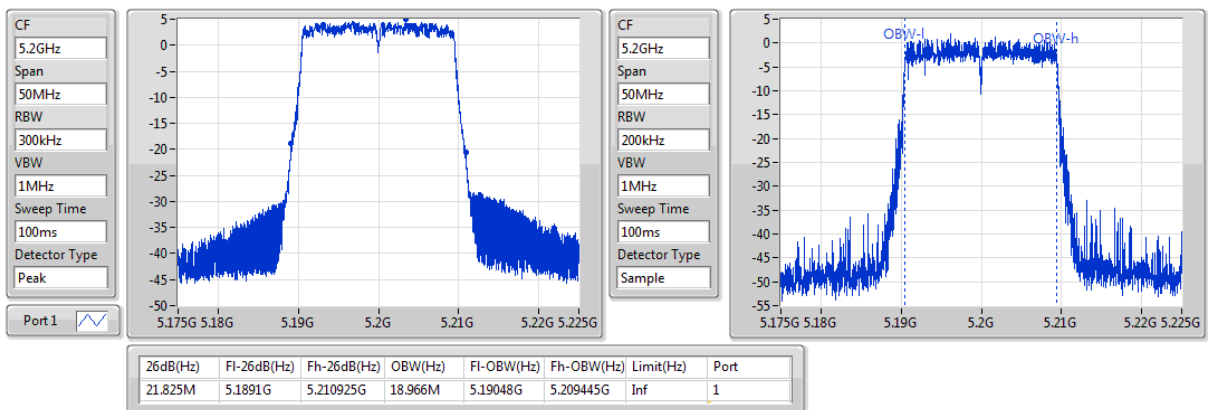


802.11ax HEW20_Nss1,(MCS0)_1TX

EBW

5200MHz

02/03/2019

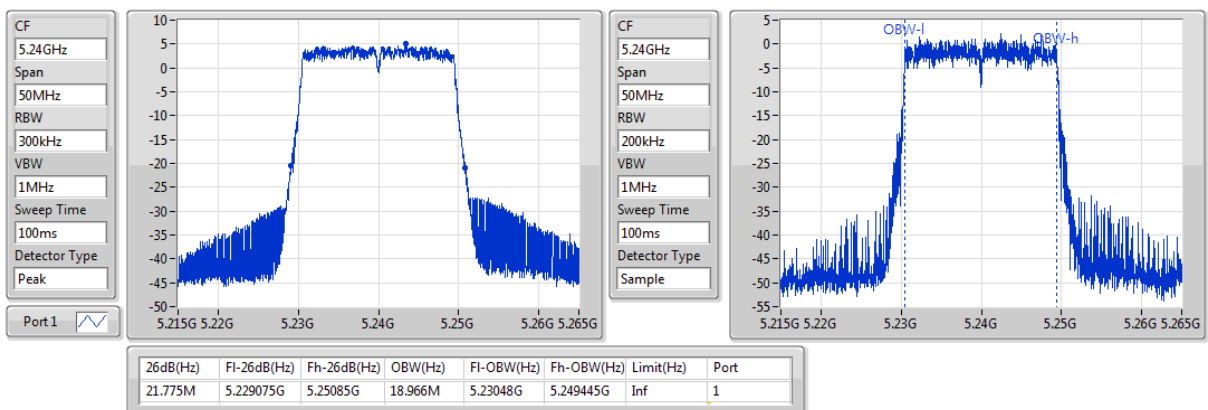


802.11ax HEW20_Nss1,(MCS0)_1TX

EBW

5240MHz

02/03/2019

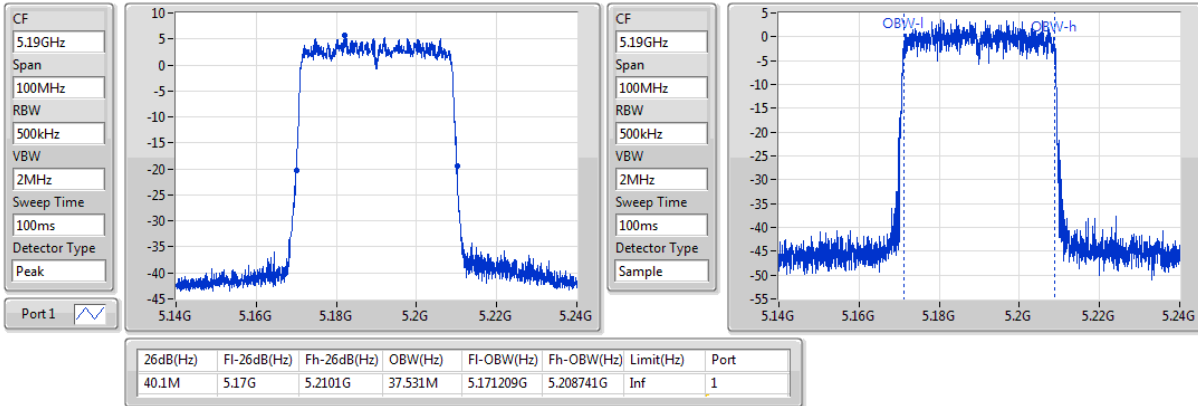


802.11ax HEW40_Nss1,(MCS0)_1TX

EBW

5190MHz

02/03/2019

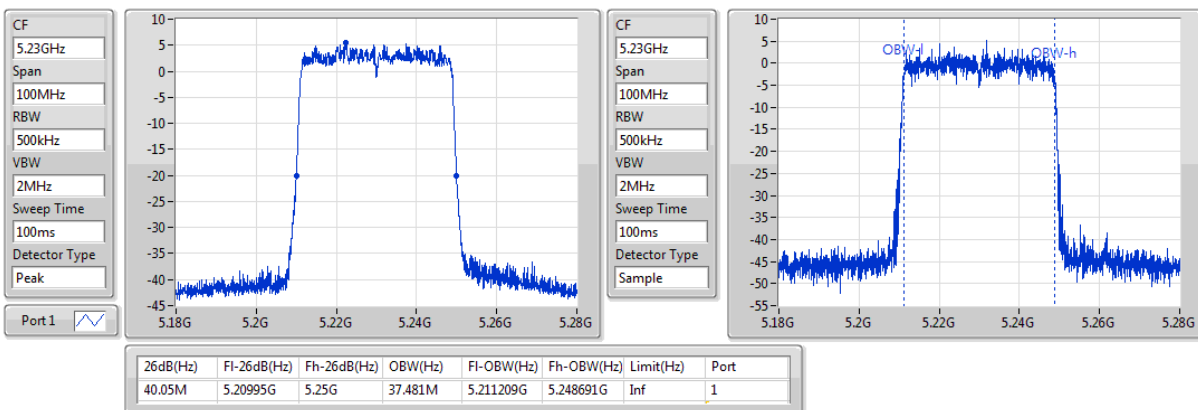


802.11ax HEW40_Nss1,(MCS0)_1TX

EBW

5230MHz

02/03/2019

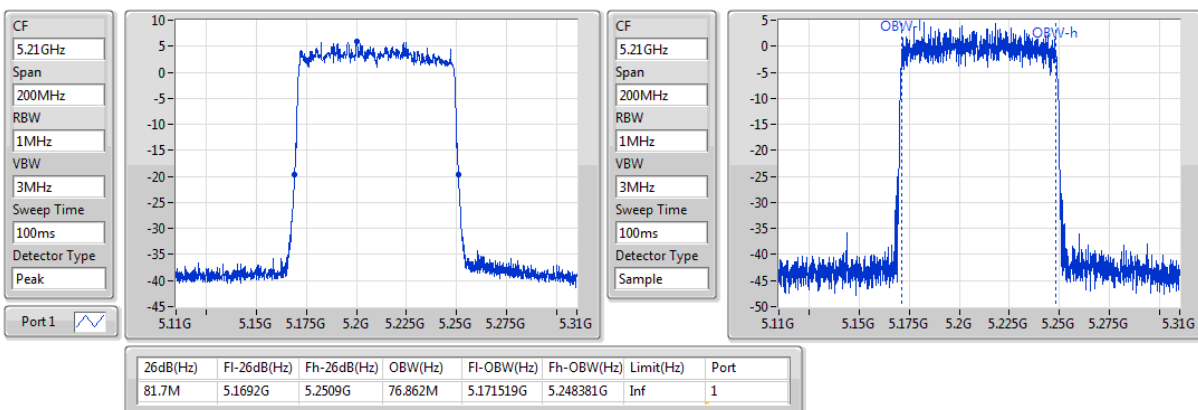


802.11ax HEW80_Nss1,(MCS0)_1TX

EBW

5210MHz

02/03/2019





EBW Result_Radio 2

Appendix B.57

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	21.9M	18.966M	19M0D1D	21.275M	18.941M
802.11ax HEW40_Nss2,(MCS0)_2TX	39.95M	37.531M	37M5D1D	39.95M	37.481M
802.11ax HEW80_Nss2,(MCS0)_2TX	81.5M	77.061M	77M1D1D	81.4M	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;



EBW Result_Radio 2

Appendix B.57

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	21.825M	18.941M	21.6M	18.966M
5200MHz	Pass	Inf	21.9M	18.966M	21.475M	18.966M
5240MHz	Pass	Inf	21.9M	18.941M	21.275M	18.966M
802.11ax HEW40_Nss2,(MCS0)_2TX	-	-	-	-	-	-
5190MHz	Pass	Inf	39.95M	37.531M	39.95M	37.531M
5230MHz	Pass	Inf	39.95M	37.481M	39.95M	37.531M
802.11ax HEW80_Nss2,(MCS0)_2TX	-	-	-	-	-	-
5210MHz	Pass	Inf	81.4M	76.962M	81.5M	77.061M

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

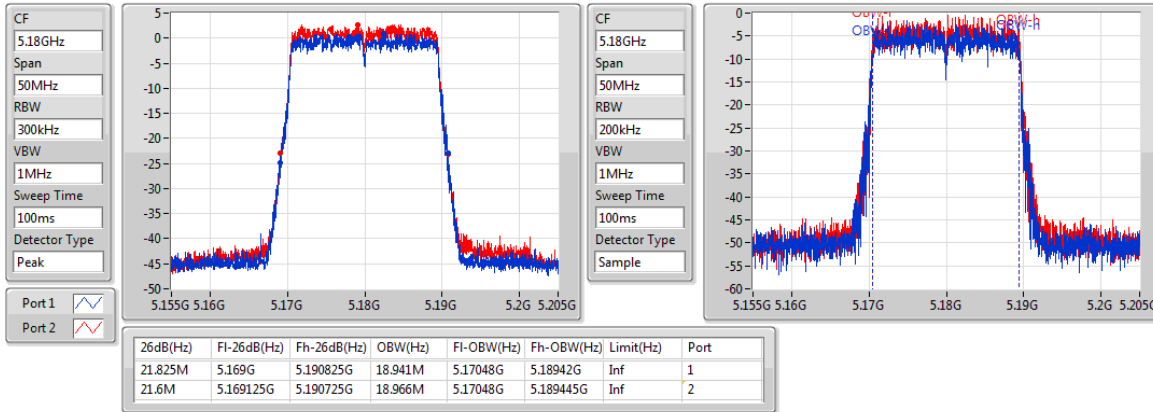
Port X-OBW = Port X 99% occupied bandwidth;

802.11ax HEW20_Nss2,(MCS0)_2TX

EBW

5180MHz

02/03/2019

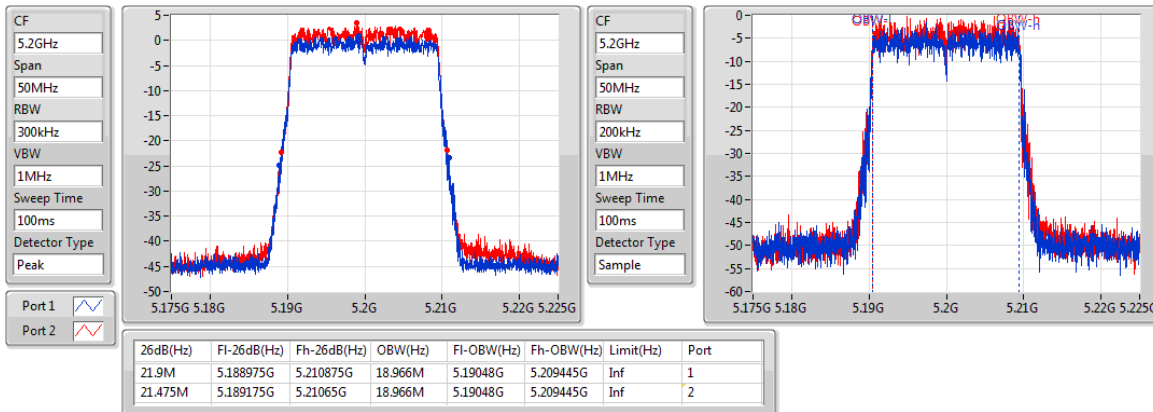


802.11ax HEW20_Nss2,(MCS0)_2TX

EBW

5200MHz

02/03/2019

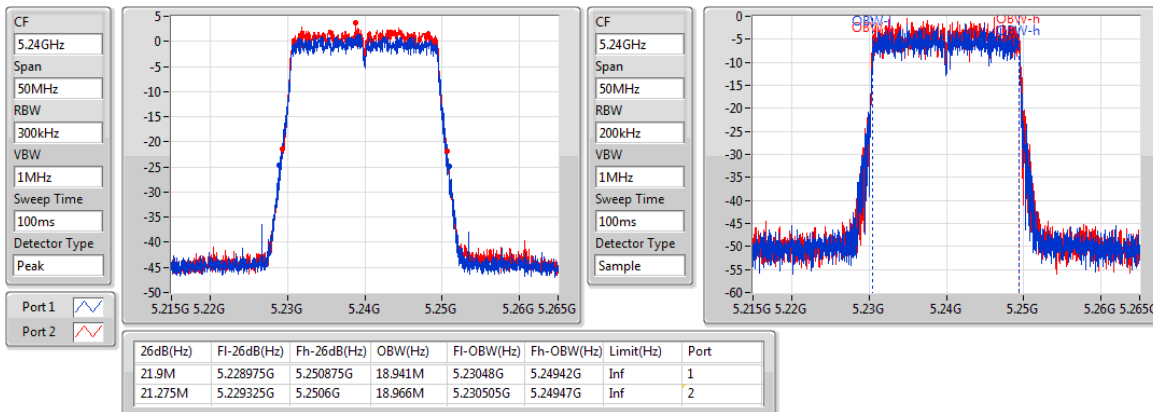


802.11ax HEW20_Nss2,(MCS0)_2TX

EBW

5240MHz

02/03/2019

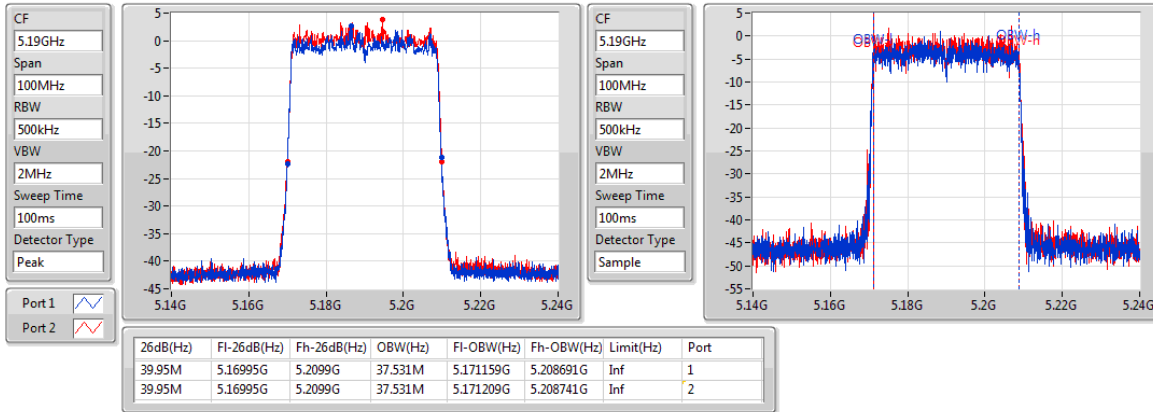


802.11ax HEW40_Nss2,(MCS0)_2TX

EBW

5190MHz

02/03/2019

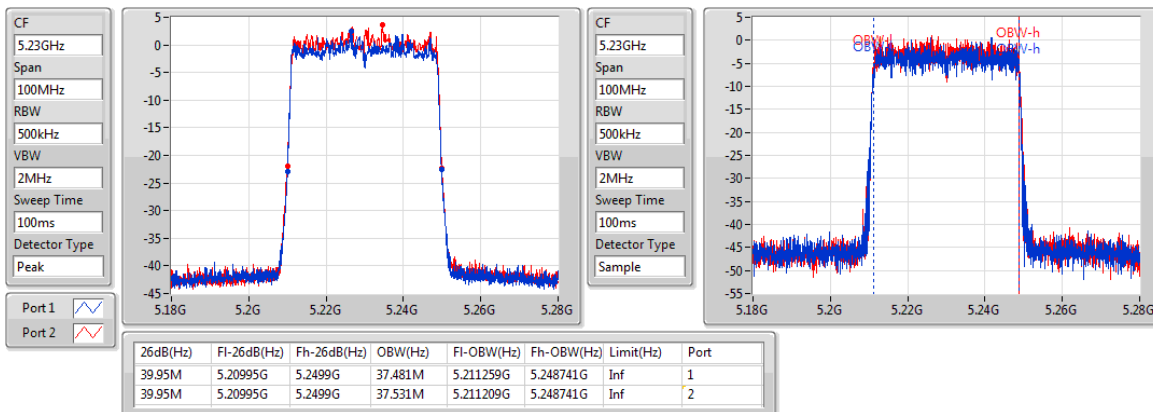


802.11ax HEW40_Nss2,(MCS0)_2TX

EBW

5230MHz

02/03/2019

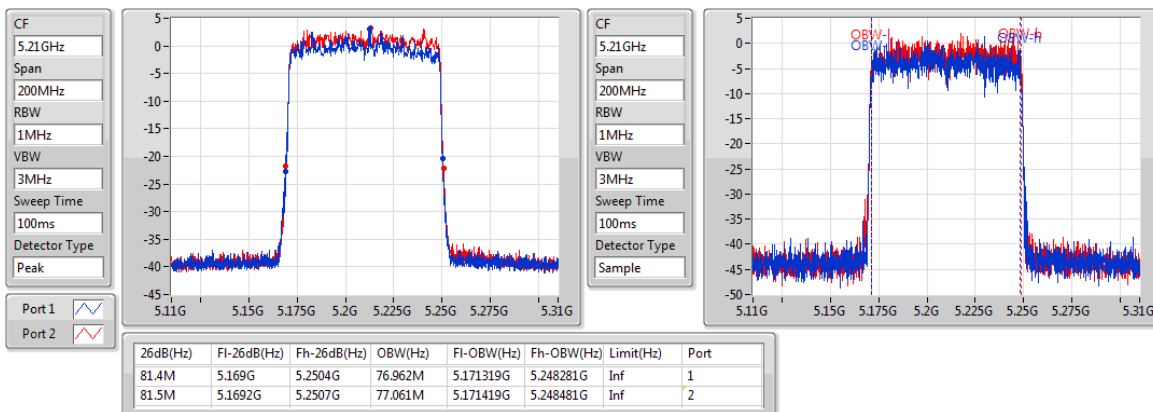


802.11ax HEW80_Nss2,(MCS0)_2TX

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	21.725M	16.617M	16M6D1D	21.475M	16.542M
802.11ax HEW20_Nss1,(MCS0)_4TX	21.9M	18.991M	19M0D1D	21.325M	18.941M
802.11ax HEW40_Nss1,(MCS0)_4TX	40.2M	37.631M	37M6D1D	40M	37.481M
802.11ax HEW80_Nss1,(MCS0)_4TX	81.7M	77.261M	77M3D1D	81.4M	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;

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	16.617M	21.725M	16.592M	21.7M	16.617M	21.475M	16.542M
5200MHz	Pass	Inf	21.6M	16.592M	21.675M	16.542M	21.675M	16.567M	21.575M	16.542M
5240MHz	Pass	Inf	21.6M	16.542M	21.575M	16.592M	21.55M	16.617M	21.5M	16.542M
802.11ax HEW20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	Inf	21.85M	18.966M	21.675M	18.966M	21.9M	18.966M	21.325M	18.991M
5200MHz	Pass	Inf	21.7M	18.991M	21.65M	18.966M	21.85M	18.966M	21.475M	18.941M
5240MHz	Pass	Inf	21.675M	18.941M	21.675M	18.966M	21.8M	18.941M	21.4M	18.966M
802.11ax HEW40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	Inf	40M	37.531M	40.2M	37.581M	40.05M	37.531M	40.2M	37.481M
5230MHz	Pass	Inf	40.05M	37.631M	40.1M	37.581M	40.1M	37.581M	40.2M	37.531M
802.11ax HEW80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	Inf	81.7M	76.962M	81.4M	77.261M	81.6M	76.862M	81.7M	76.862M

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;

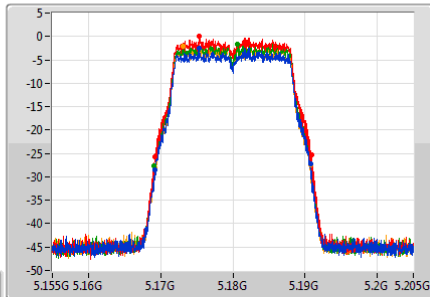
802.11a_Nss1,(6Mbps)_4TX

EBW

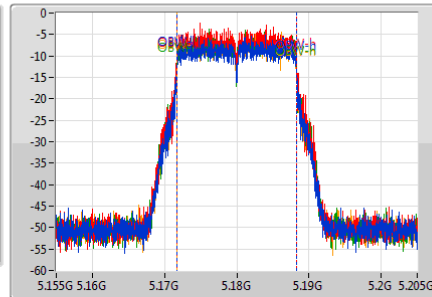
5180MHz

02/03/2019

CF
5.18GHz
Span
50MHz
RBW
300kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



CF
5.18GHz
Span
50MHz
RBW
200kHz
VBW
1MHz
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
21.55M	5.169225G	5.190775G	16.617M	5.171679G	5.188296G	Inf	1
21.725M	5.16915G	5.190875G	16.592M	5.171679G	5.188271G	Inf	2
21.7M	5.1691G	5.1908G	16.617M	5.171679G	5.188296G	Inf	3
21.475M	5.16925G	5.190725G	16.542M	5.171704G	5.188246G	Inf	4

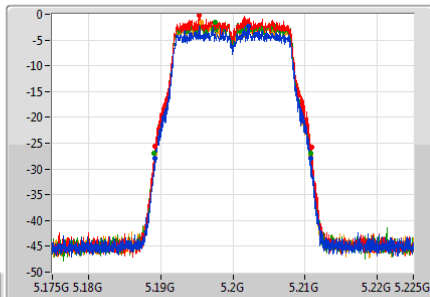
802.11a_Nss1,(6Mbps)_4TX

EBW

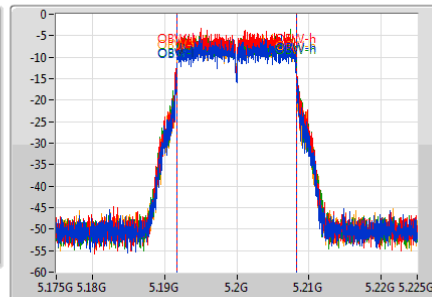
5200MHz

02/03/2019

CF
5.2GHz
Span
50MHz
RBW
300kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



CF
5.2GHz
Span
50MHz
RBW
200kHz
VBW
1MHz
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
21.6M	5.1892G	5.2108G	16.592M	5.191679G	5.208271G	Inf	1
21.675M	5.1892G	5.210875G	16.542M	5.191704G	5.208246G	Inf	2
21.675M	5.189125G	5.2108G	16.567M	5.191679G	5.208246G	Inf	3
21.575M	5.189275G	5.21085G	16.542M	5.191679G	5.208221G	Inf	4

802.11a_Nss1,(6Mbps)_4TX

EBW

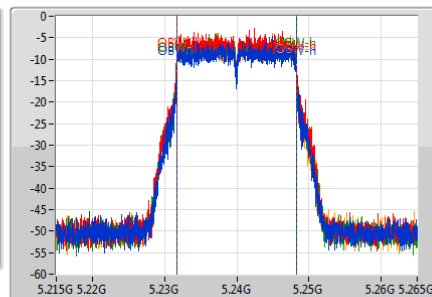
5240MHz

02/03/2019

CF
5.24GHz
Span
50MHz
RBW
300kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



CF
5.24GHz
Span
50MHz
RBW
200kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Sample



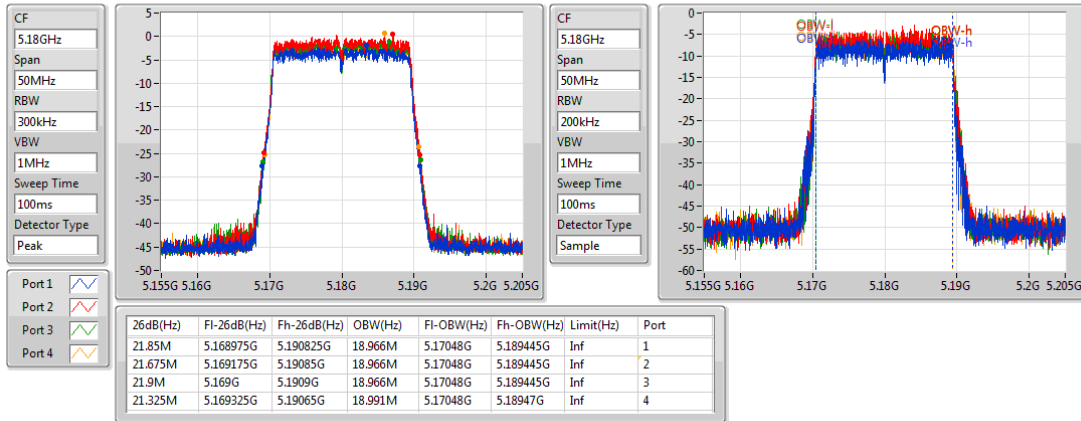
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
21.6M	5.229225G	5.250825G	16.542M	5.231704G	5.248246G	Inf	1
21.575M	5.2293G	5.250875G	16.592M	5.231679G	5.248271G	Inf	2
21.55M	5.229175G	5.250725G	16.617M	5.231654G	5.248271G	Inf	3
21.5M	5.2293G	5.2508G	16.542M	5.231679G	5.248221G	Inf	4

802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

5180MHz

02/03/2019

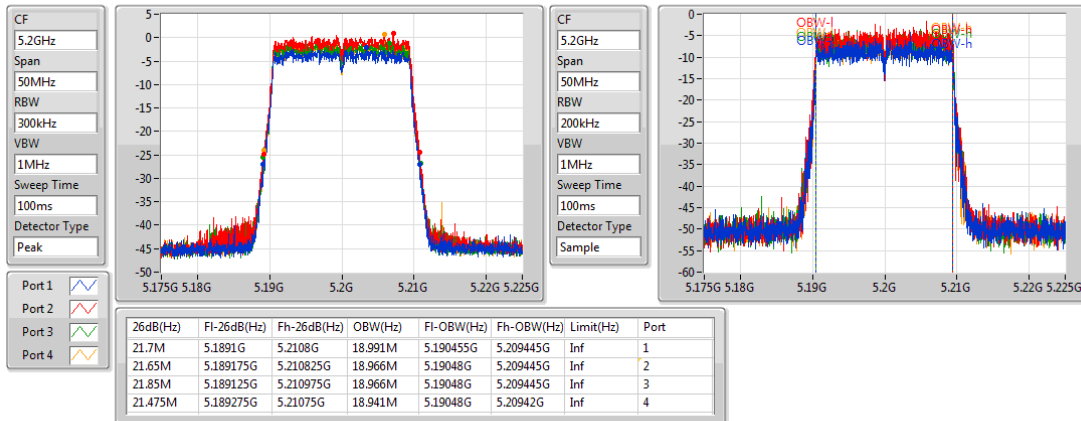


802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

5200MHz

02/03/2019

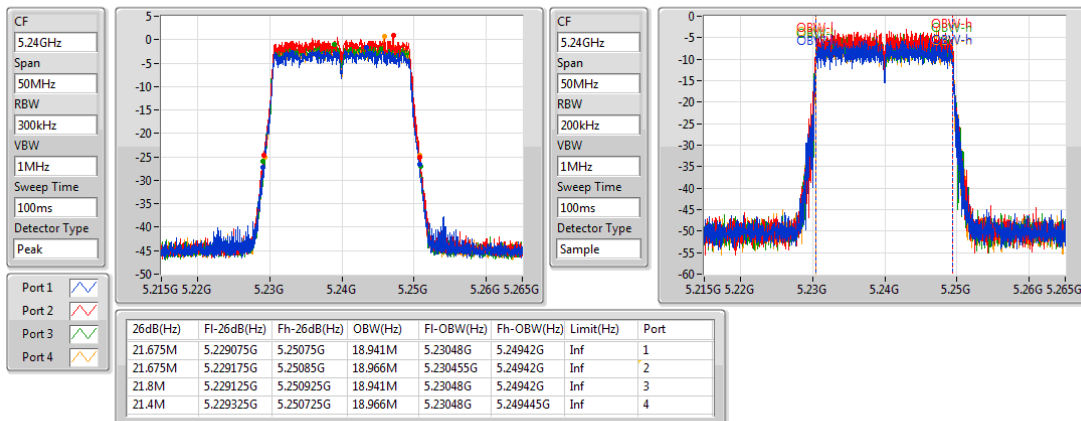


802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

5240MHz

02/03/2019

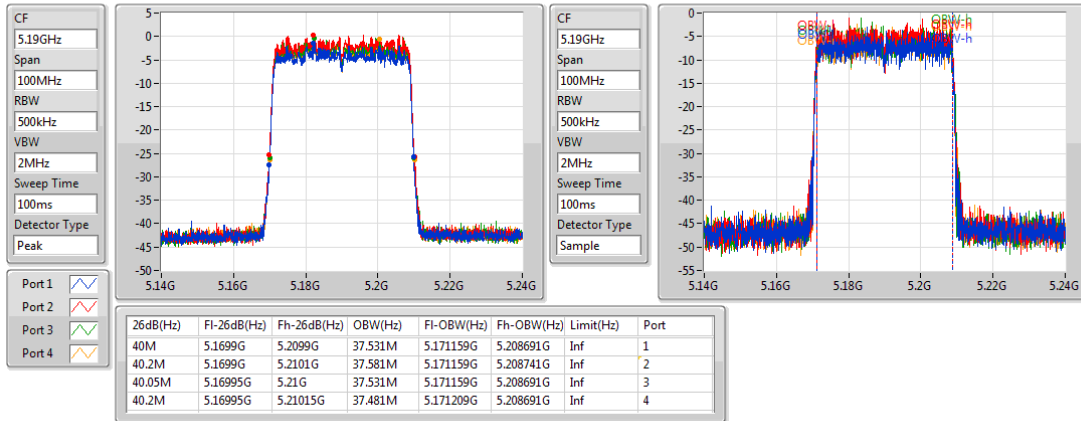


802.11ax HEW40_Nss1,(MCS0)_4TX

EBW

5190MHz

02/03/2019

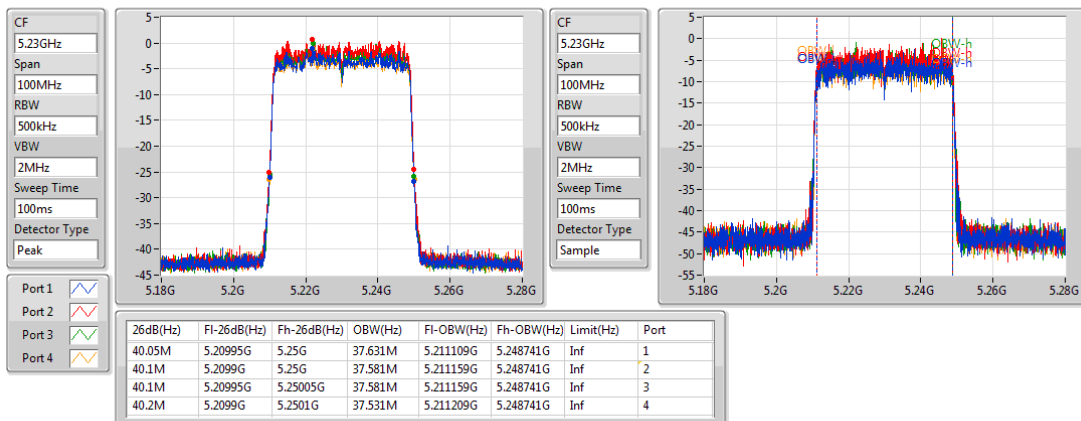


802.11ax HEW40_Nss1,(MCS0)_4TX

EBW

5230MHz

02/03/2019

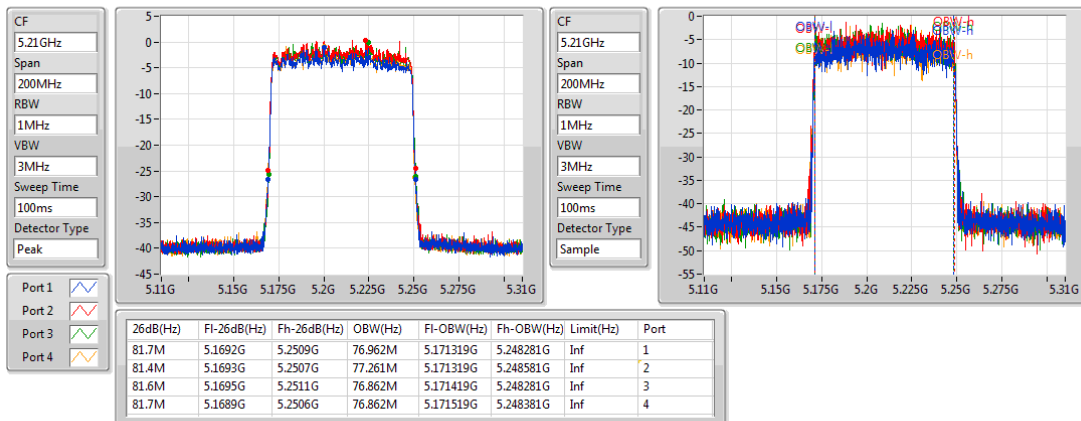


802.11ax HEW80_Nss1,(MCS0)_4TX

EBW

5210MHz

02/03/2019





EBW Result_Radio 2

Appendix B.59

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	21.925M	18.991M	19M0D1D	21.425M	18.941M
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	40.25M	37.631M	37M6D1D	39.95M	37.531M
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	82.2M	77.361M	77M4D1D	81.3M	77.161M

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	21.7M	18.941M	21.9M	18.991M	21.425M	18.991M
5200MHz	Pass	Inf	21.8M	18.966M	21.7M	18.966M	21.925M	18.966M	21.425M	18.991M
5240MHz	Pass	Inf	21.925M	18.966M	21.575M	18.966M	21.8M	18.966M	21.475M	18.966M
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	Inf	40M	37.581M	40.15M	37.581M	40.25M	37.581M	40.2M	37.631M
5230MHz	Pass	Inf	39.95M	37.531M	40.15M	37.631M	40.25M	37.531M	40.05M	37.531M
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	Inf	82M	77.261M	81.3M	77.361M	81.5M	77.361M	82.2M	77.161M

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

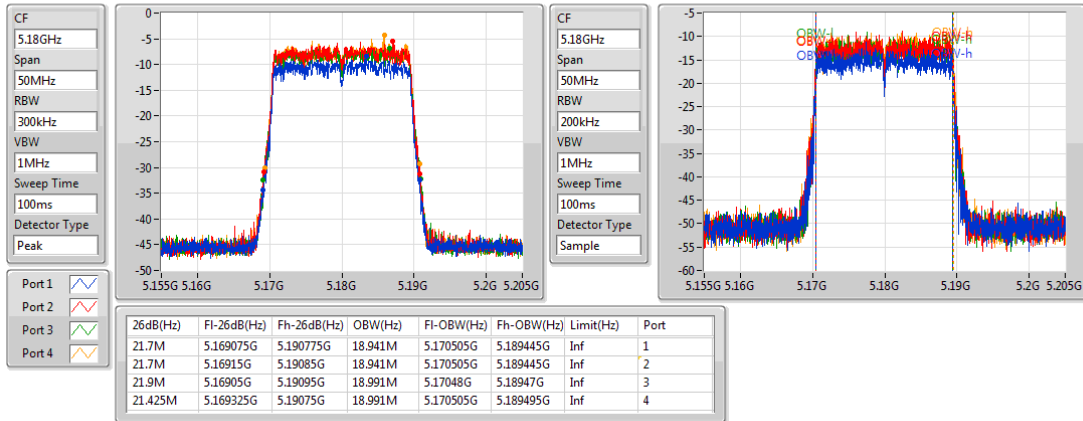
Port X-OBW = Port X 99% occupied bandwidth;

802.11ax HEW20-BF_Nss1,(MCS0)_4TX

EBW

5180MHz

01/03/2019

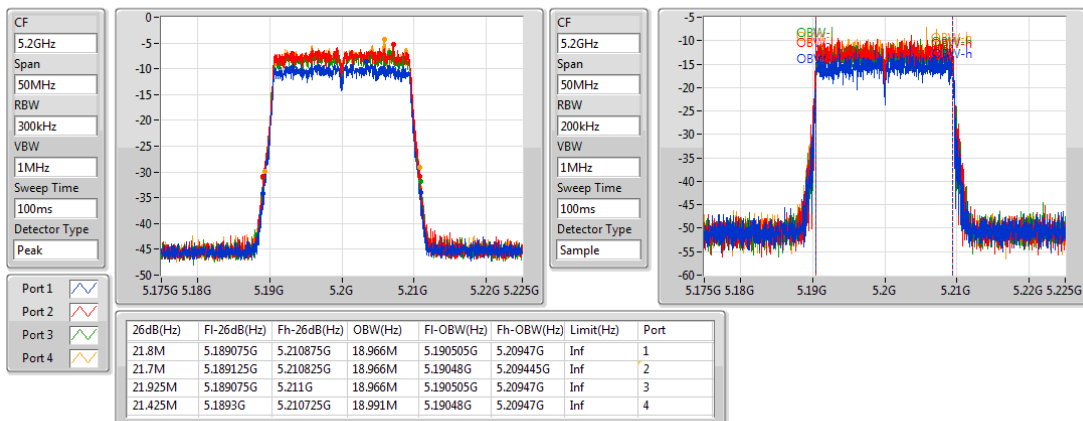


802.11ax HEW20-BF_Nss1,(MCS0)_4TX

EBW

5200MHz

01/03/2019

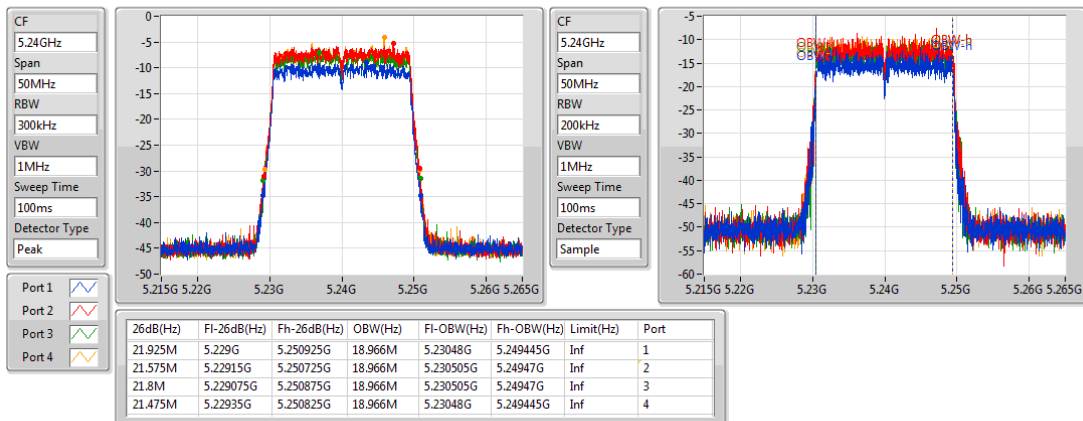


802.11ax HEW20-BF_Nss1,(MCS0)_4TX

EBW

5240MHz

01/03/2019

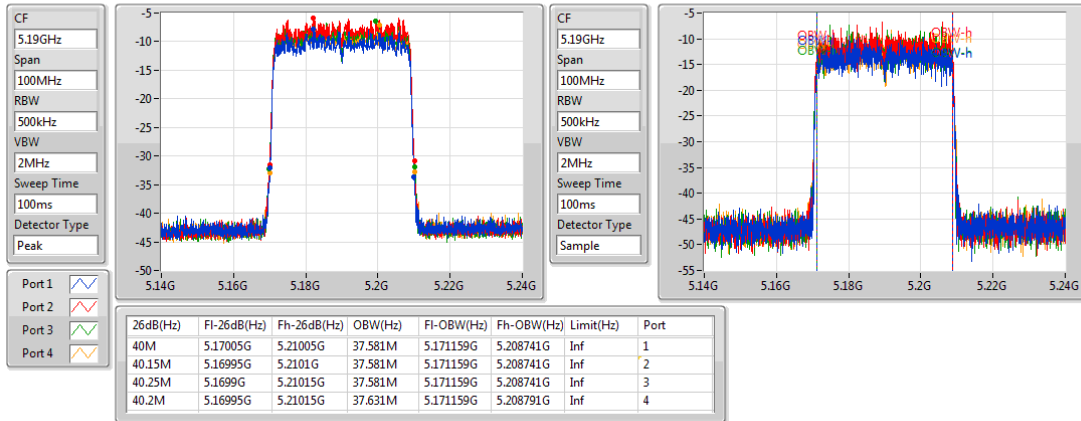


802.11ax HEW40-BF_Nss1,(MCS0)_4TX

EBW

5190MHz

01/03/2019

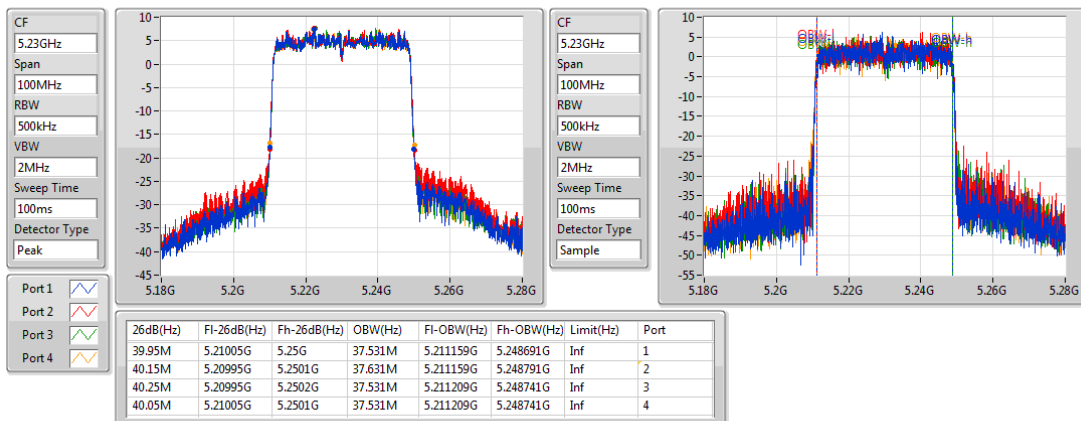


802.11ax HEW40-BF_Nss1,(MCS0)_4TX

EBW

5230MHz

01/02/2019

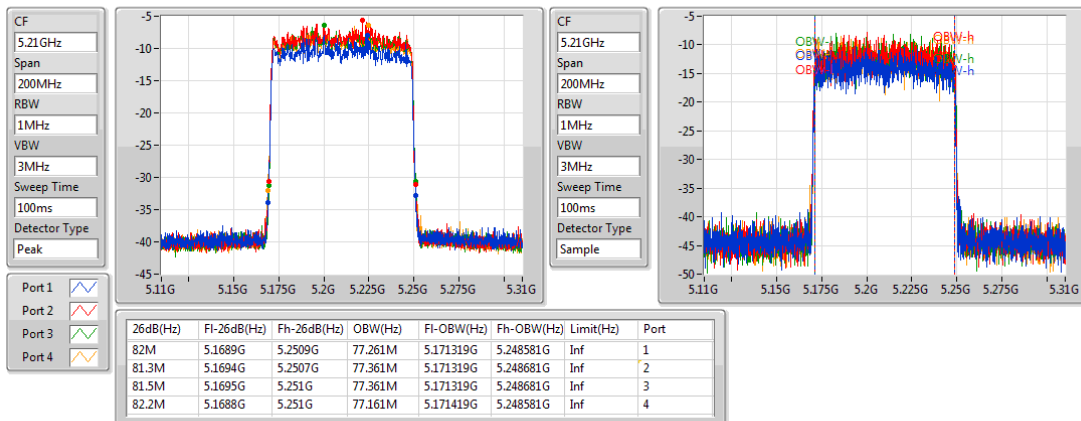


802.11ax HEW80-BF_Nss1,(MCS0)_4TX

EBW

5210MHz

01/03/2019





EBW Result_Radio 2

Appendix B.60

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	21.9M	19.015M	19M0D1D	21.2M	18.941M
802.11ax HEW40_Nss4,(MCS0)_4TX	40.3M	37.631M	37M6D1D	40.05M	37.481M
802.11ax HEW80_Nss4,(MCS0)_4TX	81.8M	77.161M	77M2D1D	81.4M	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 2

Appendix B.60

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	21.7M	18.966M	21.65M	18.966M	21.9M	18.941M	21.375M	18.941M
5200MHz	Pass	Inf	21.75M	18.966M	21.825M	18.966M	21.875M	18.966M	21.375M	19.015M
5240MHz	Pass	Inf	21.75M	18.966M	21.8M	18.966M	21.775M	18.966M	21.2M	18.966M
802.11ax HEW40_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	Inf	40.3M	37.581M	40.2M	37.481M	40.1M	37.531M	40.2M	37.531M
5230MHz	Pass	Inf	40.2M	37.531M	40.05M	37.481M	40.15M	37.581M	40.2M	37.631M
802.11ax HEW80_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	Inf	81.4M	76.862M	81.5M	77.161M	81.7M	77.061M	81.8M	76.962M

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

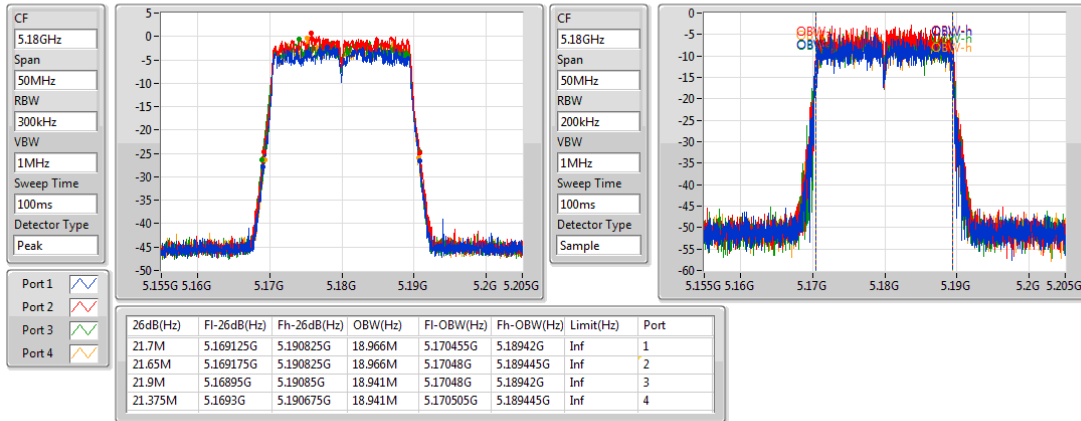
Port X-OBW = Port X 99% occupied bandwidth;

802.11ax HEW20_Nss4,(MCS0)_4TX

EBW

5180MHz

02/03/2019

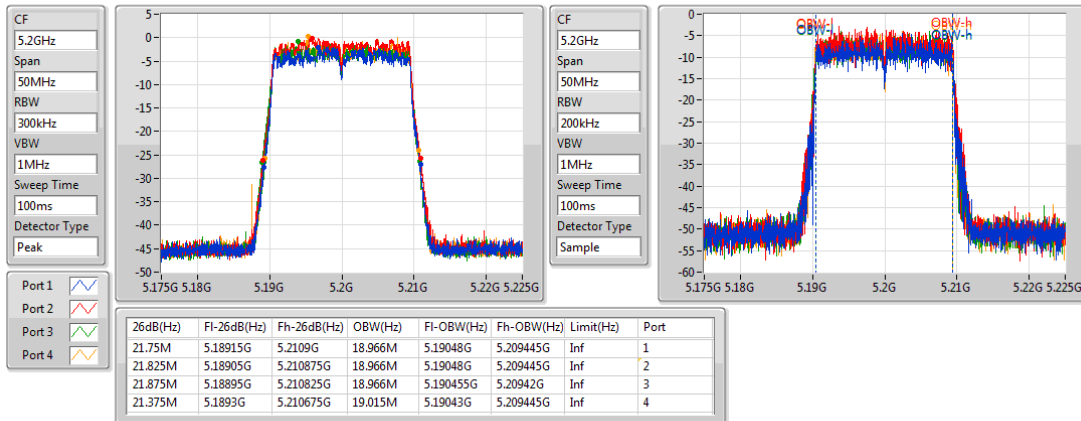


802.11ax HEW20_Nss4,(MCS0)_4TX

EBW

5200MHz

02/03/2019

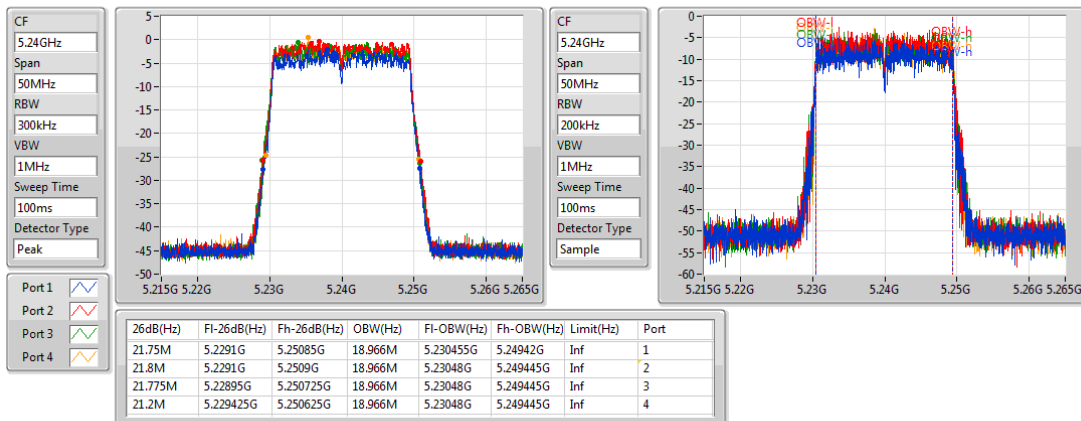


802.11ax HEW20_Nss4,(MCS0)_4TX

EBW

5240MHz

02/03/2019

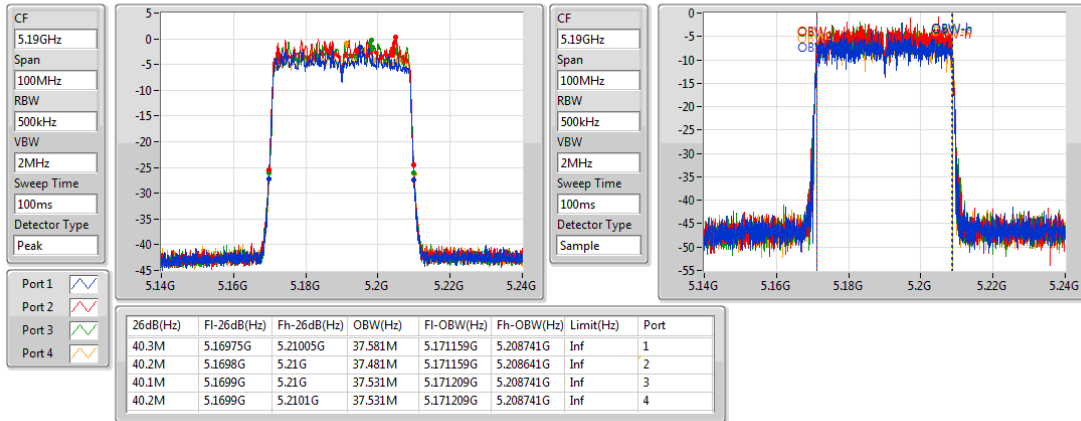


802.11ax HEW40_Nss4,(MCS0)_4TX

EBW

5190MHz

02/03/2019

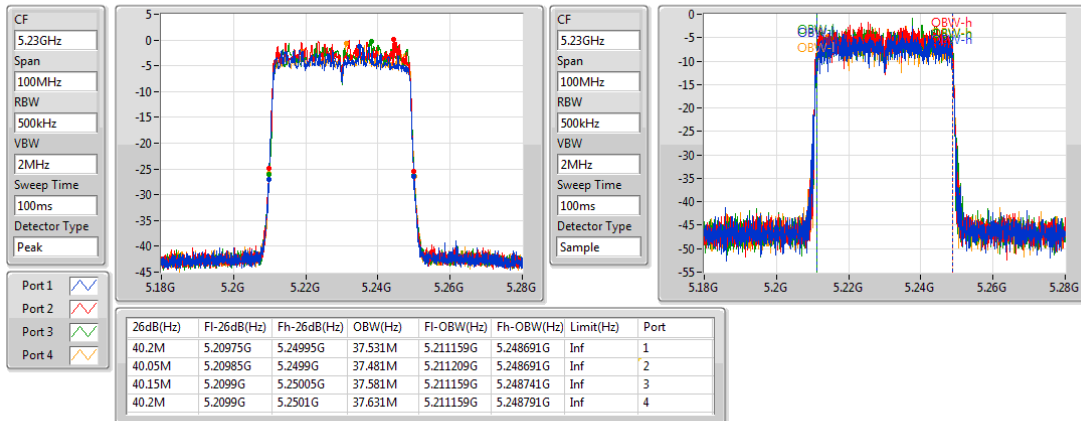


802.11ax HEW40_Nss4,(MCS0)_4TX

EBW

5230MHz

02/03/2019

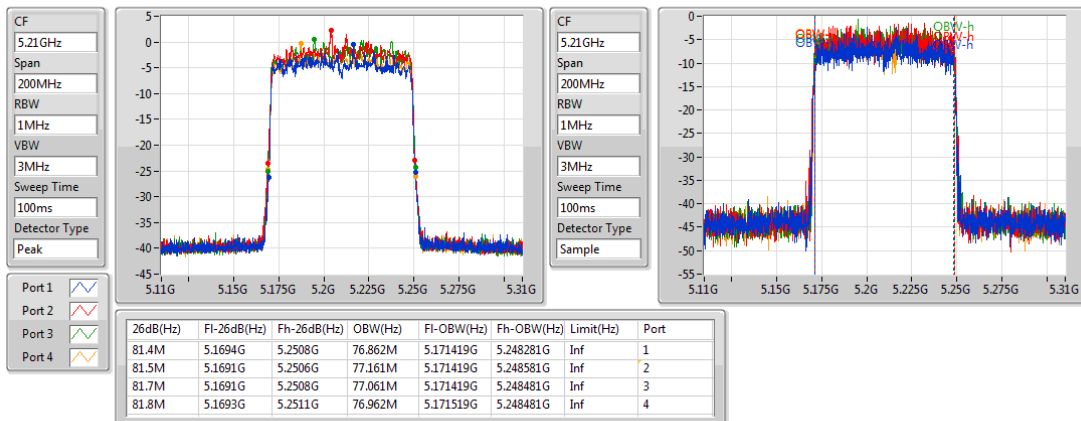


802.11ax HEW80_Nss4,(MCS0)_4TX

EBW

5210MHz

02/03/2019





Power Result_Radio 1

Appendix C.1

For Radio 1:

For Indoor use for 5G Band 1 and Indoor/Outdoor use for 5G Band 4:

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

For Non-beamforming / 1T1S mode

Summary

Mode	Total Power (dBm)	Total Power (W)
5.15-5.25GHz	-	-
802.11a_Nss1,(6Mbps)_1TX	20.41	0.10990
802.11ax HEW20_Nss1,(MCS0)_1TX	21.87	0.15382
802.11ax HEW40_Nss1,(MCS0)_1TX	20.67	0.11668
802.11ax HEW80_Nss1,(MCS0)_1TX	16.33	0.04295
5.725-5.85GHz	-	-
802.11a_Nss1,(6Mbps)_1TX	19.98	0.09954
802.11ax HEW20_Nss1,(MCS0)_1TX	21.05	0.12735
802.11ax HEW40_Nss1,(MCS0)_1TX	21.96	0.15704
802.11ax HEW80_Nss1,(MCS0)_1TX	19.49	0.08892

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Total Power (dBm)	Power Limit (dBm)	Conducted setting
802.11a_Nss1,(6Mbps)_1TX	-	-	-	-	-	-
5180MHz	Pass	3.00	18.50	18.50	30.00	18.75
5200MHz	Pass	3.00	20.41	20.41	30.00	21.25
5240MHz	Pass	3.00	20.05	20.05	30.00	20.5
5745MHz	Pass	3.00	19.64	19.64	30.00	20.5
5785MHz	Pass	3.00	19.90	19.90	30.00	20.5
5825MHz	Pass	3.00	19.98	19.98	30.00	20.5
802.11ax HEW20_Nss1,(MCS0)_1TX	-	-	-	-	-	-
5180MHz	Pass	3.00	17.95	17.95	30.00	18
5200MHz	Pass	3.00	21.87	21.87	30.00	22.5
5240MHz	Pass	3.00	21.01	21.01	30.00	21.5
5745MHz	Pass	3.00	21.05	21.05	30.00	22
5785MHz	Pass	3.00	19.67	19.67	30.00	20.5
5825MHz	Pass	3.00	20.24	20.24	30.00	20.75
802.11ax HEW40_Nss1,(MCS0)_1TX	-	-	-	-	-	-
5190MHz	Pass	3.00	15.87	15.87	30.00	16
5230MHz	Pass	3.00	20.67	20.67	30.00	21.25
5755MHz	Pass	3.00	21.96	21.96	30.00	23
5795MHz	Pass	3.00	21.81	21.81	30.00	23.25
802.11ax HEW80_Nss1,(MCS0)_1TX	-	-	-	-	-	-
5210MHz	Pass	3.00	16.33	16.33	30.00	16.5
5775MHz	Pass	3.00	19.49	19.49	30.00	19.25

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

Note : Conducted setting = Pass conducted setting division 4

**For Non-beamforming / 2T2S mode
Summary**

Mode	Total Power (dBm)	Total Power (W)
5.15-5.25GHz	-	-
802.11ax HEW20_Nss2,(MCS0)_2TX	23.99	0.25061
802.11ax HEW40_Nss2,(MCS0)_2TX	22.42	0.17458
802.11ax HEW80_Nss2,(MCS0)_2TX	17.72	0.05916
5.725-5.85GHz	-	-
802.11ax HEW20_Nss2,(MCS0)_2TX	23.77	0.23823
802.11ax HEW40_Nss2,(MCS0)_2TX	24.09	0.25645
802.11ax HEW80_Nss2,(MCS0)_2TX	20.86	0.12190

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)	Conducted setting
802.11ax HEW20_Nss2,(MCS0)_2TX	-	-	-	-	-	-	-
5180MHz	Pass	3.00	17.01	16.41	19.73	30.00	16.75
5200MHz	Pass	3.00	20.61	20.56	23.60	30.00	21
5240MHz	Pass	3.00	21.03	20.92	23.99	30.00	21.5
5745MHz	Pass	3.00	20.60	20.91	23.77	30.00	22
5785MHz	Pass	3.00	19.41	19.80	22.62	30.00	20.5
5825MHz	Pass	3.00	20.27	20.21	23.25	30.00	20.75
802.11ax HEW40_Nss2,(MCS0)_2TX	-	-	-	-	-	-	-
5190MHz	Pass	3.00	14.91	15.05	17.99	30.00	15.25
5230MHz	Pass	3.00	19.65	19.16	22.42	30.00	19.75
5755MHz	Pass	3.00	20.32	20.78	23.57	30.00	21
5795MHz	Pass	3.00	20.99	21.16	24.09	30.00	21.75
802.11ax HEW80_Nss2,(MCS0)_2TX	-	-	-	-	-	-	-
5210MHz	Pass	3.00	14.91	14.50	17.72	30.00	15
5775MHz	Pass	3.00	17.84	17.86	20.86	30.00	17.75

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

Note : Conducted setting = Pass conducted setting division 4



Power Result_Radio 1

Appendix C.3

For Non-beamforming / 4T1S mode Summary

Mode	Total Power (dBm)	Total Power (W)
5.15-5.25GHz	-	-
802.11a_Nss1,(6Mbps)_4TX	25.84	0.38371
802.11ax HEW20_Nss1,(MCS0)_4TX	26.82	0.48084
802.11ax HEW40_Nss1,(MCS0)_4TX	23.43	0.22029
802.11ax HEW80_Nss1,(MCS0)_4TX	19.72	0.09376
5.725-5.85GHz	-	-
802.11a_Nss1,(6Mbps)_4TX	25.80	0.38019
802.11ax HEW20_Nss1,(MCS0)_4TX	26.45	0.44157
802.11ax HEW40_Nss1,(MCS0)_4TX	25.66	0.36813
802.11ax HEW80_Nss1,(MCS0)_4TX	21.80	0.15136

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Port 3 (dBm)	Port 4 (dBm)	Total Power (dBm)	Power Limit (dBm)	Conducted setting
802.11a_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-	-
5180MHz	Pass	3.00	15.39	14.58	15.02	14.79	20.98	30.00	15.25
5200MHz	Pass	3.00	19.45	19.37	19.59	19.23	25.43	30.00	20
5240MHz	Pass	3.00	19.97	19.70	20.15	19.44	25.84	30.00	20.5
5745MHz	Pass	3.00	19.42	19.04	19.26	19.63	25.36	30.00	20.5
5785MHz	Pass	3.00	19.30	19.09	19.17	19.65	25.33	30.00	20.5
5825MHz	Pass	3.00	19.51	19.68	19.74	20.16	25.80	30.00	20.5
802.11ax HEW20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-
5180MHz	Pass	3.00	15.85	15.65	15.72	15.32	21.66	30.00	15.75
5200MHz	Pass	3.00	19.96	19.94	20.07	19.48	25.89	30.00	20.25
5240MHz	Pass	3.00	20.91	20.81	20.94	20.52	26.82	30.00	21.5
5745MHz	Pass	3.00	20.47	20.45	20.23	20.58	26.45	30.00	22
5785MHz	Pass	3.00	19.49	19.58	19.66	19.93	25.69	30.00	20.5
5825MHz	Pass	3.00	19.96	20.02	20.05	19.98	26.02	30.00	20.75
802.11ax HEW40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-
5190MHz	Pass	3.00	14.43	13.43	14.23	13.69	19.98	30.00	14.25
5230MHz	Pass	3.00	18.07	17.03	17.31	17.15	23.43	30.00	18
5755MHz	Pass	3.00	17.21	17.24	17.62	18.03	23.56	30.00	17.5
5795MHz	Pass	3.00	19.25	19.55	19.69	20.04	25.66	30.00	20
802.11ax HEW80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-
5210MHz	Pass	3.00	14.13	13.62	13.58	13.43	19.72	30.00	14
5775MHz	Pass	3.00	15.60	16.03	16.07	15.37	21.80	30.00	16

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

Note : Conducted setting = Pass conducted setting division 4

**For Beamforming / 4T1S mode
Summary**

Mode	Total Power (dBm)	Total Power (W)
5.15-5.25GHz	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	26.53	0.44978
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	23.56	0.22699
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	19.91	0.09795
5.725-5.85GHz	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	26.90	0.48978
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	26.33	0.42954
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	22.83	0.19187

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Port 3 (dBm)	Port 4 (dBm)	Total Power (dBm)	Power Limit (dBm)	Conducted setting
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-
5180MHz	Pass	9.02	16.27	16.43	17.28	16.01	22.54	26.98	15.25
5200MHz	Pass	9.02	19.23	18.79	20.00	18.78	25.25	26.98	18
5240MHz	Pass	9.02	20.51	20.09	20.94	20.44	26.53	26.98	20
5745MHz	Pass	9.02	20.94	20.17	20.86	21.02	26.78	26.98	20.75
5785MHz	Pass	9.02	20.35	20.09	20.70	20.81	26.52	26.98	20.5
5825MHz	Pass	9.02	21.06	20.46	20.72	21.22	26.90	26.98	20.75
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-
5190MHz	Pass	9.02	15.04	14.46	14.78	14.45	20.71	26.98	13.75
5230MHz	Pass	9.02	17.39	17.57	17.86	17.31	23.56	26.98	16.5
5755MHz	Pass	9.02	19.04	19.29	19.32	19.89	25.42	26.98	18
5795MHz	Pass	9.02	20.15	20.07	20.31	20.69	26.33	26.98	19.25
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-
5210MHz	Pass	9.02	14.06	13.82	13.91	13.78	19.91	26.98	13
5775MHz	Pass	9.02	16.39	17.16	16.98	16.68	22.83	26.98	15.5

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

Note : Conducted setting = Pass conducted setting division 4



Power Result_Radio 1

Appendix C.5

For Non-beamforming / 4T4S mode Summary

Mode	Total Power (dBm)	Total Power (W)
5.15-5.25GHz	-	-
802.11ax HEW20_Nss4,(MCS0)_4TX	26.77	0.47534
802.11ax HEW40_Nss4,(MCS0)_4TX	24.09	0.25645
802.11ax HEW80_Nss4,(MCS0)_4TX	19.18	0.08279
5.725-5.85GHz	-	-
802.11ax HEW20_Nss4,(MCS0)_4TX	26.43	0.43954
802.11ax HEW40_Nss4,(MCS0)_4TX	25.38	0.34514
802.11ax HEW80_Nss4,(MCS0)_4TX	22.85	0.19275

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Port 3 (dBm)	Port 4 (dBm)	Total Power (dBm)	Power Limit (dBm)	Conducted setting
802.11ax HEW20_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-
5180MHz	Pass	3.00	15.59	15.21	16.12	15.19	21.56	30.00	15.75
5200MHz	Pass	3.00	19.61	19.82	19.79	19.45	25.69	30.00	20
5240MHz	Pass	3.00	20.93	20.71	20.83	20.52	26.77	30.00	21.5
5745MHz	Pass	3.00	20.51	20.44	20.01	20.65	26.43	30.00	22
5785MHz	Pass	3.00	19.65	19.53	19.77	19.49	25.63	30.00	20.5
5825MHz	Pass	3.00	20.06	20.03	19.93	19.93	26.01	30.00	20.75
802.11ax HEW40_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-
5190MHz	Pass	3.00	13.86	13.31	13.88	13.14	19.58	30.00	14
5230MHz	Pass	3.00	18.34	18.02	18.53	17.28	24.09	30.00	18.25
5755MHz	Pass	3.00	18.09	18.12	18.37	18.64	24.33	30.00	18.25
5795MHz	Pass	3.00	19.38	19.19	19.35	19.53	25.38	30.00	19.5
802.11ax HEW80_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-
5210MHz	Pass	3.00	13.53	12.72	13.42	12.91	19.18	30.00	13.5
5775MHz	Pass	3.00	17.04	17.23	16.66	16.32	22.85	30.00	17

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

Note : Conducted setting = Pass conducted setting division 4



Power Result_Radio 1

Appendix C.6

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

Mode	Total Power (dBm)	Total Power (W)
5.15-5.25GHz	-	-
802.11a_Nss1,(6Mbps)_1TX	21.66	0.14655
802.11ax HEW20_Nss1,(MCS0)_1TX	21.40	0.13804
802.11ax HEW40_Nss1,(MCS0)_1TX	19.20	0.08318
802.11ax HEW80_Nss1,(MCS0)_1TX	15.14	0.03266
5.725-5.85GHz	-	-
802.11a_Nss1,(6Mbps)_1TX	21.51	0.14158
802.11ax HEW20_Nss1,(MCS0)_1TX	22.00	0.15849
802.11ax HEW40_Nss1,(MCS0)_1TX	21.11	0.12912
802.11ax HEW80_Nss1,(MCS0)_1TX	17.50	0.05623

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Total Power (dBm)	Power Limit (dBm)	Conducted setting
802.11a_Nss1,(6Mbps)_1TX	-	-	-	-	-	-
5180MHz	Pass	6.00	17.53	17.53	30.00	17.75
5200MHz	Pass	6.00	21.23	21.23	30.00	22
5240MHz	Pass	6.00	21.66	21.66	30.00	22.5
5745MHz	Pass	6.00	21.51	21.51	30.00	23.5
5785MHz	Pass	6.00	20.61	20.61	30.00	21.75
5825MHz	Pass	6.00	19.80	19.80	30.00	20.25
802.11ax HEW20_Nss1,(MCS0)_1TX	-	-	-	-	-	-
5180MHz	Pass	6.00	17.00	17.00	30.00	17.25
5200MHz	Pass	6.00	20.84	20.84	30.00	21.5
5240MHz	Pass	6.00	21.40	21.40	30.00	22
5745MHz	Pass	6.00	22.00	22.00	30.00	24.5
5785MHz	Pass	6.00	20.20	20.20	30.00	21
5825MHz	Pass	6.00	19.84	19.84	30.00	20.25
802.11ax HEW40_Nss1,(MCS0)_1TX	-	-	-	-	-	-
5190MHz	Pass	6.00	15.54	15.54	30.00	15.75
5230MHz	Pass	6.00	19.20	19.20	30.00	19.25
5755MHz	Pass	6.00	19.57	19.57	30.00	20
5795MHz	Pass	6.00	21.11	21.11	30.00	22
802.11ax HEW80_Nss1,(MCS0)_1TX	-	-	-	-	-	-
5210MHz	Pass	6.00	15.14	15.14	30.00	15.25
5775MHz	Pass	6.00	17.50	17.50	30.00	17.25

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

Note : Conducted setting = Pass conducted setting division 4



Power Result_Radio 1

Appendix C.7

For Non-beamforming / 2T2S mode Summary

Mode	Total Power (dBm)	Total Power (W)
5.15-5.25GHz	-	-
802.11ax HEW20_Nss2,(MCS0)_2TX	24.42	0.27669
802.11ax HEW40_Nss2,(MCS0)_2TX	21.69	0.14757
802.11ax HEW80_Nss2,(MCS0)_2TX	16.97	0.04977
5.725-5.85GHz	-	-
802.11ax HEW20_Nss2,(MCS0)_2TX	24.61	0.28907
802.11ax HEW40_Nss2,(MCS0)_2TX	23.27	0.21232
802.11ax HEW80_Nss2,(MCS0)_2TX	18.76	0.07516

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)	Conducted setting
802.11ax HEW20_Nss2,(MCS0)_2TX	-	-	-	-	-	-	-
5180MHz	Pass	6.00	16.42	16.05	19.25	30.00	16.25
5200MHz	Pass	6.00	19.82	19.39	22.62	30.00	20
5240MHz	Pass	6.00	21.53	21.29	24.42	30.00	22
5745MHz	Pass	6.00	21.62	21.57	24.61	30.00	23.5
5785MHz	Pass	6.00	20.15	19.89	23.03	30.00	21
5825MHz	Pass	6.00	19.74	19.71	22.74	30.00	20.25
802.11ax HEW40_Nss2,(MCS0)_2TX	-	-	-	-	-	-	-
5190MHz	Pass	6.00	14.91	15.05	17.99	30.00	15.25
5230MHz	Pass	6.00	18.85	18.51	21.69	30.00	18.75
5755MHz	Pass	6.00	18.87	19.18	22.04	30.00	19
5795MHz	Pass	6.00	20.28	20.23	23.27	30.00	20.5
802.11ax HEW80_Nss2,(MCS0)_2TX	-	-	-	-	-	-	-
5210MHz	Pass	6.00	14.38	13.49	16.97	30.00	14.5
5775MHz	Pass	6.00	15.60	15.89	18.76	30.00	15.75

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

Note : Conducted setting = Pass conducted setting division 4



Power Result_Radio 1

Appendix C.8

For Non-beamforming / 4T1S mode Summary

Mode	Total Power (dBm)	Total Power (W)
5.15-5.25GHz	-	-
802.11a_Nss1,(6Mbps)_4TX	24.48	0.28054
802.11ax HEW20_Nss1,(MCS0)_4TX	25.09	0.32285
802.11ax HEW40_Nss1,(MCS0)_4TX	23.08	0.20324
802.11ax HEW80_Nss1,(MCS0)_4TX	18.44	0.06982
5.725-5.85GHz	-	-
802.11a_Nss1,(6Mbps)_4TX	27.43	0.55335
802.11ax HEW20_Nss1,(MCS0)_4TX	26.94	0.49431
802.11ax HEW40_Nss1,(MCS0)_4TX	25.18	0.32961
802.11ax HEW80_Nss1,(MCS0)_4TX	20.88	0.12246

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Port 3 (dBm)	Port 4 (dBm)	Total Power (dBm)	Power Limit (dBm)	Conducted setting
802.11a_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-	-
5180MHz	Pass	6.00	14.96	14.16	14.54	14.23	20.50	30.00	14.75
5200MHz	Pass	6.00	18.39	18.57	18.69	17.82	24.40	30.00	18.75
5240MHz	Pass	6.00	18.67	18.23	18.77	18.13	24.48	30.00	19
5745MHz	Pass	6.00	21.68	21.32	21.24	21.40	27.43	30.00	23.5
5785MHz	Pass	6.00	20.26	20.39	20.71	20.85	26.58	30.00	21.75
5825MHz	Pass	6.00	19.60	19.39	19.82	19.53	25.61	30.00	20.25
802.11ax HEW20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-
5180MHz	Pass	6.00	15.58	15.42	15.45	15.04	21.40	30.00	15.5
5200MHz	Pass	6.00	19.09	19.08	19.31	18.76	25.09	30.00	19.5
5240MHz	Pass	6.00	19.13	18.70	19.33	18.51	24.95	30.00	19.25
5745MHz	Pass	6.00	20.89	20.96	20.81	21.00	26.94	30.00	22.5
5785MHz	Pass	6.00	19.91	20.17	20.48	20.56	26.31	30.00	21
5825MHz	Pass	6.00	19.46	19.59	19.84	19.59	25.64	30.00	20.25
802.11ax HEW40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-
5190MHz	Pass	6.00	13.37	12.83	13.00	12.31	18.91	30.00	13.25
5230MHz	Pass	6.00	17.25	16.88	17.25	16.84	23.08	30.00	17.5
5755MHz	Pass	6.00	17.78	17.84	18.07	18.55	24.09	30.00	18
5795MHz	Pass	6.00	18.79	19.30	19.19	19.32	25.18	30.00	19.25
802.11ax HEW80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-
5210MHz	Pass	6.00	12.73	12.02	12.84	12.00	18.44	30.00	13
5775MHz	Pass	6.00	14.58	14.92	15.19	14.73	20.88	30.00	15

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

Note : Conducted setting = Pass conducted setting division 4



Power Result_Radio 1

Appendix C.9

For Beamforming / 4T1S mode Summary

Mode	Total Power (dBm)	Total Power (W)
5.15-5.25GHz	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	23.77	0.23823
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	23.56	0.22699
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	19.20	0.08318
5.725-5.85GHz	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	23.97	0.24946
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	23.97	0.24946
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	20.72	0.11803

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Port 3 (dBm)	Port 4 (dBm)	Total Power (dBm)	Power Limit (dBm)	Conducted setting
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-
5180MHz	Pass	12.02	13.74	13.96	14.71	13.56	20.04	23.98	12.75
5200MHz	Pass	12.02	17.63	17.86	18.14	17.31	23.77	23.98	16.5
5240MHz	Pass	12.02	17.45	17.35	18.03	17.22	23.54	23.98	16.5
5745MHz	Pass	12.02	17.40	18.15	17.85	18.35	23.97	23.98	16.75
5785MHz	Pass	12.02	17.98	18.02	17.72	17.92	23.93	23.98	16.75
5825MHz	Pass	12.02	17.82	18.09	17.86	18.03	23.97	23.98	16.75
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	
5190MHz	Pass	12.02	12.69	12.64	12.71	12.14	18.57	23.98	11.5
5230MHz	Pass	12.02	17.39	17.57	17.86	17.31	23.56	23.98	16.5
5755MHz	Pass	12.02	17.07	17.70	17.15	18.01	23.52	23.98	15.5
5795MHz	Pass	12.02	17.41	18.38	17.41	18.47	23.97	23.98	16
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	
5210MHz	Pass	12.02	13.38	13.13	13.13	13.06	19.20	23.98	12.25
5775MHz	Pass	12.02	14.24	15.03	14.85	14.62	20.72	23.98	13.25

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

Note : Conducted setting = Pass conducted setting division 4



Power Result_Radio 1

Appendix C.10

For Non-beamforming / 4T4S mode Summary

Mode	Total Power (dBm)	Total Power (W)
5.15-5.25GHz	-	-
802.11ax HEW20_Nss4,(MCS0)_4TX	27.00	0.50119
802.11ax HEW40_Nss4,(MCS0)_4TX	22.34	0.17140
802.11ax HEW80_Nss4,(MCS0)_4TX	15.80	0.03802
5.725-5.85GHz	-	-
802.11ax HEW20_Nss4,(MCS0)_4TX	27.67	0.58479
802.11ax HEW40_Nss4,(MCS0)_4TX	25.17	0.32885
802.11ax HEW80_Nss4,(MCS0)_4TX	21.49	0.14093

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Port 3 (dBm)	Port 4 (dBm)	Total Power (dBm)	Power Limit (dBm)	Conducted setting
802.11ax HEW20_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-
5180MHz	Pass	6.00	15.08	14.97	15.68	14.69	21.14	30.00	15.25
5200MHz	Pass	6.00	18.79	18.23	18.90	18.27	24.58	30.00	18.75
5240MHz	Pass	6.00	21.17	20.93	21.09	20.73	27.00	30.00	21.75
5745MHz	Pass	6.00	21.71	21.72	21.56	21.59	27.67	30.00	24
5785MHz	Pass	6.00	20.22	20.01	20.32	20.08	26.18	30.00	21
5825MHz	Pass	6.00	19.56	19.66	19.61	19.53	25.61	30.00	20.25
802.11ax HEW40_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-
5190MHz	Pass	6.00	13.03	12.25	13.22	12.22	18.72	30.00	13.25
5230MHz	Pass	6.00	16.35	16.16	16.55	16.20	22.34	30.00	16.75
5755MHz	Pass	6.00	18.09	18.12	18.37	18.64	24.33	30.00	18.25
5795MHz	Pass	6.00	19.18	18.98	19.12	19.30	25.17	30.00	19.25
802.11ax HEW80_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-
5210MHz	Pass	6.00	10.10	9.62	9.92	9.44	15.80	30.00	10.25
5775MHz	Pass	6.00	15.22	15.85	15.66	15.12	21.49	30.00	15.5

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

Note : Conducted setting = Pass conducted setting division 4



Power Result_Radio 1

Appendix C.11

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

Mode	Total Power (dBm)	Total Power (W)
5.15-5.25GHz	-	-
802.11a_Nss1,(6Mbps)_1TX	21.37	0.13709
802.11ax HEW20_Nss1,(MCS0)_1TX	21.22	0.13243
802.11ax HEW40_Nss1,(MCS0)_1TX	19.68	0.09290
802.11ax HEW80_Nss1,(MCS0)_1TX	15.80	0.03802
5.725-5.85GHz	-	-
802.11a_Nss1,(6Mbps)_1TX	20.70	0.11749
802.11ax HEW20_Nss1,(MCS0)_1TX	21.26	0.13366
802.11ax HEW40_Nss1,(MCS0)_1TX	21.98	0.15776
802.11ax HEW80_Nss1,(MCS0)_1TX	19.49	0.08892