



EBW Result_Radio 1

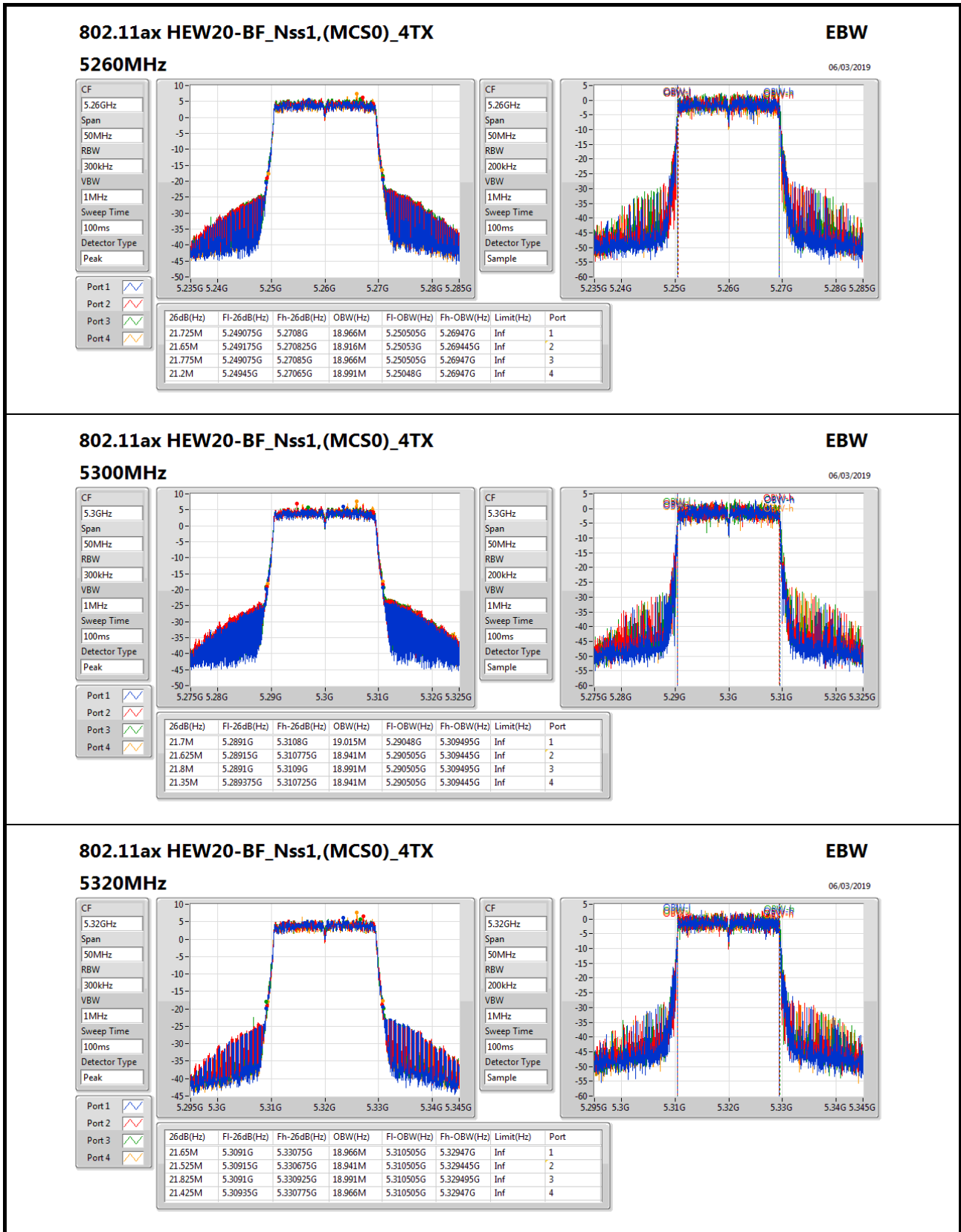
Appendix A.4

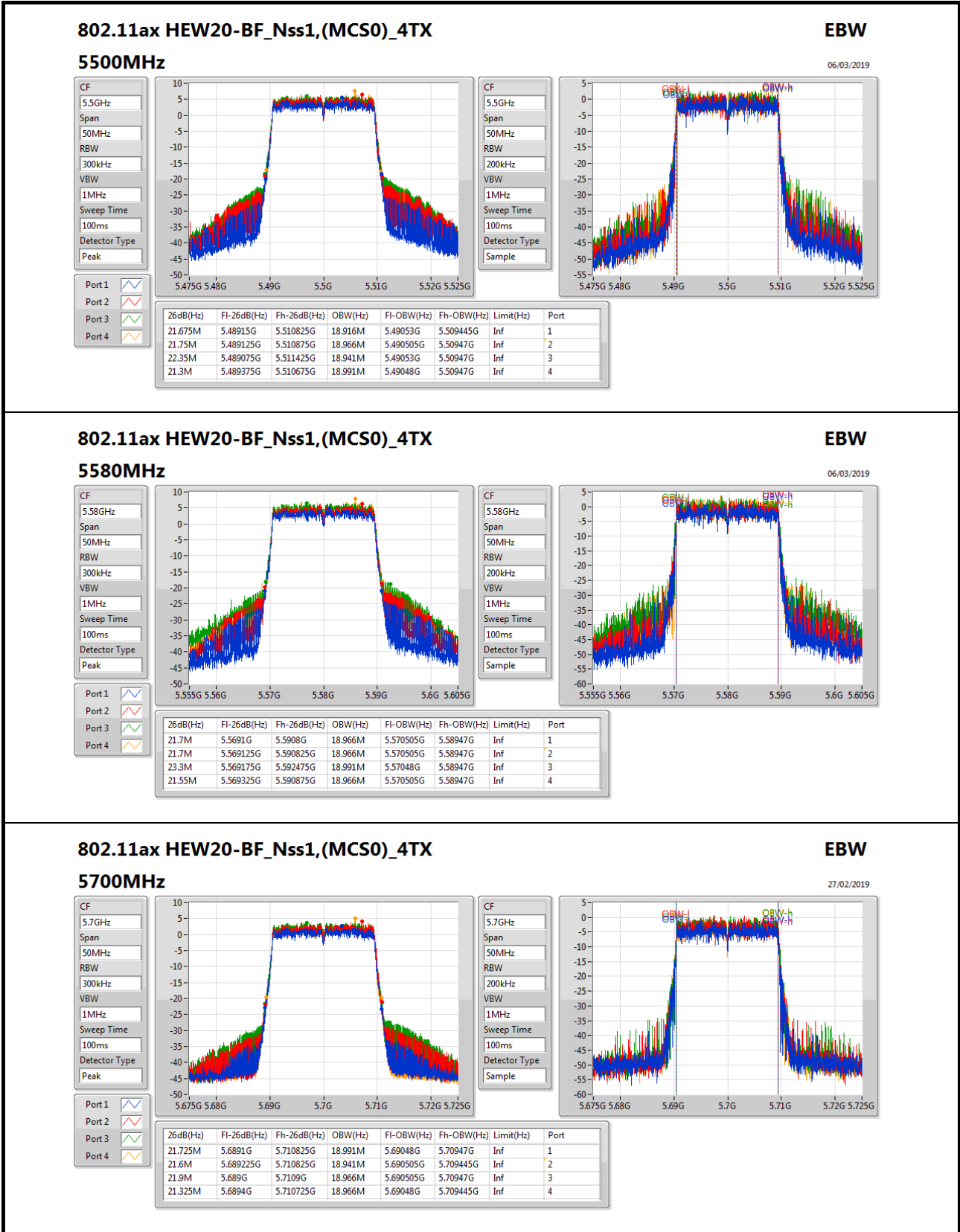
Result

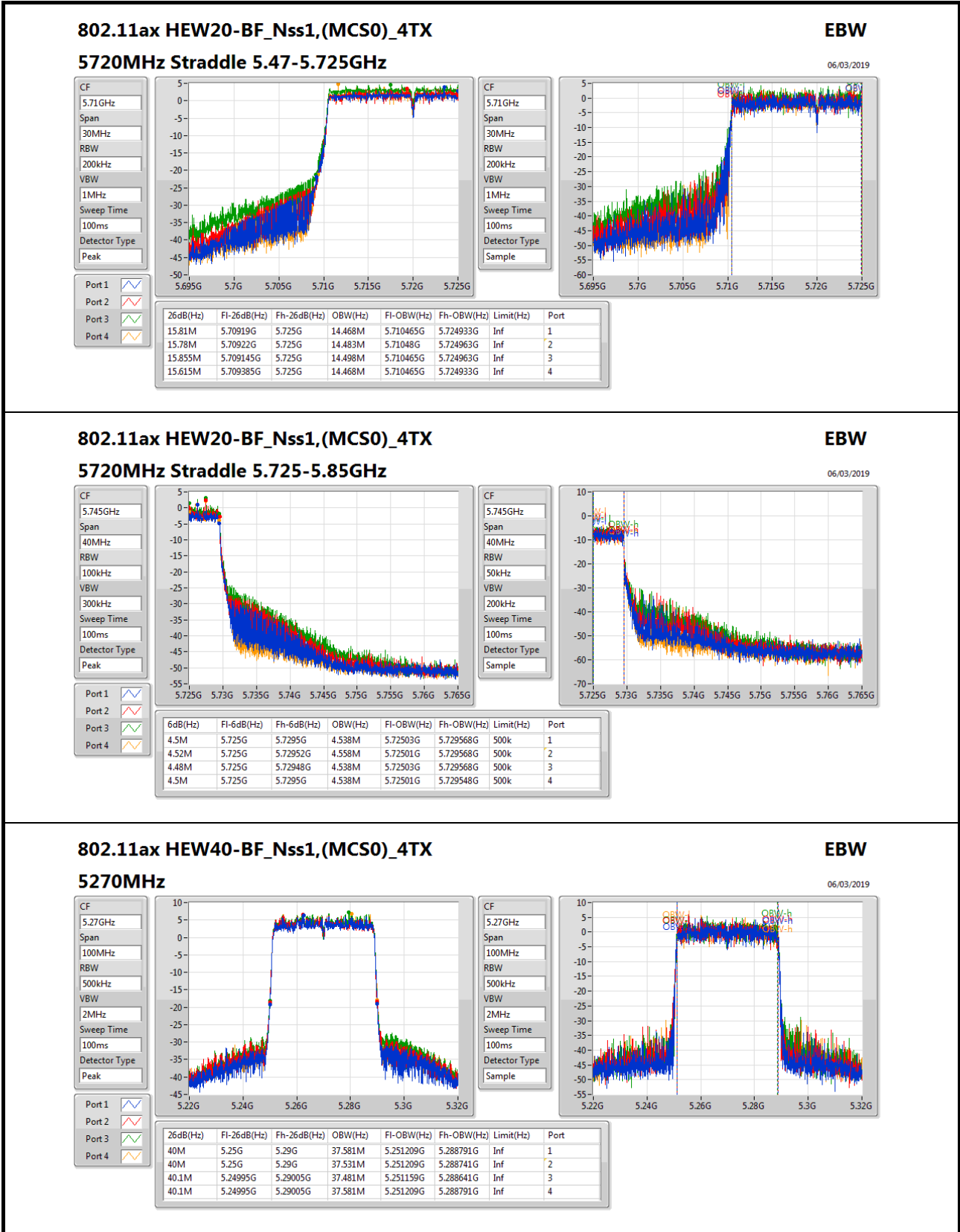
Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)	Port 3-N dB (Hz)	Port 3-OBW (Hz)	Port 4-N dB (Hz)	Port 4-OBW (Hz)
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5260MHz	Pass	Inf	21.725M	18.966M	21.65M	18.916M	21.775M	18.966M	21.2M	18.991M
5300MHz	Pass	Inf	21.7M	19.015M	21.625M	18.941M	21.8M	18.991M	21.35M	18.941M
5320MHz	Pass	Inf	21.65M	18.966M	21.525M	18.941M	21.825M	18.991M	21.425M	18.966M
5500MHz	Pass	Inf	21.675M	18.916M	21.75M	18.966M	22.35M	18.941M	21.3M	18.991M
5580MHz	Pass	Inf	21.7M	18.966M	21.7M	18.966M	23.3M	18.991M	21.55M	18.966M
5700MHz	Pass	Inf	21.725M	18.991M	21.6M	18.941M	21.9M	18.966M	21.325M	18.966M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	15.81M	14.468M	15.78M	14.483M	15.855M	14.498M	15.615M	14.468M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	4.5M	4.538M	4.52M	4.558M	4.48M	4.538M	4.5M	4.538M
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5270MHz	Pass	Inf	40M	37.581M	40M	37.531M	40.1M	37.481M	40.1M	37.581M
5310MHz	Pass	Inf	40.05M	37.481M	40.05M	37.531M	39.95M	37.531M	39.85M	37.581M
5510MHz	Pass	Inf	39.9M	37.581M	40.2M	37.481M	40.1M	37.531M	40M	37.631M
5550MHz	Pass	Inf	40M	37.531M	40.05M	37.631M	40.15M	37.531M	40.15M	37.581M
5670MHz	Pass	Inf	40M	37.581M	40.1M	37.531M	40.2M	37.531M	40.1M	37.731M
5710MHz Straddle 5.47-5.725GHz	Pass	Inf	34.93M	33.653M	35M	33.653M	35.07M	33.653M	35.035M	33.653M
5710MHz Straddle 5.725-5.85GHz	Pass	500k	3.92M	4.018M	3.76M	4.058M	3.8M	4.078M	3.9M	4.058M
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5290MHz	Pass	Inf	81.5M	77.161M	81.3M	77.061M	80.9M	77.061M	81M	76.962M
5530MHz	Pass	Inf	81.2M	77.061M	81.2M	76.962M	81M	77.061M	81.3M	77.061M
5610MHz	Pass	Inf	81.5M	77.061M	81.1M	76.962M	81.3M	77.261M	81.4M	76.862M
5690MHz Straddle 5.47-5.725GHz	Pass	Inf	75.675M	73.013M	75.45M	73.238M	75.3M	72.864M	75.6M	73.388M
5690MHz Straddle 5.725-5.85GHz	Pass	500k	3.8M	4.058M	3.88M	4.078M	3.72M	4.098M	3.3M	4.038M
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	Inf	81.2M	77.001M	80.8M	77.001M	80.56M	77.241M	80.88M	77.001M
5250MHz Straddle 5.25-5.35GHz	Pass	Inf	81.36M	77.081M	80.88M	77.161M	80.64M	77.001M	81.52M	77.081M
5570MHz	Pass	Inf	164.8M	155.122M	164M	155.322M	163.2M	155.522M	163.6M	155.322M

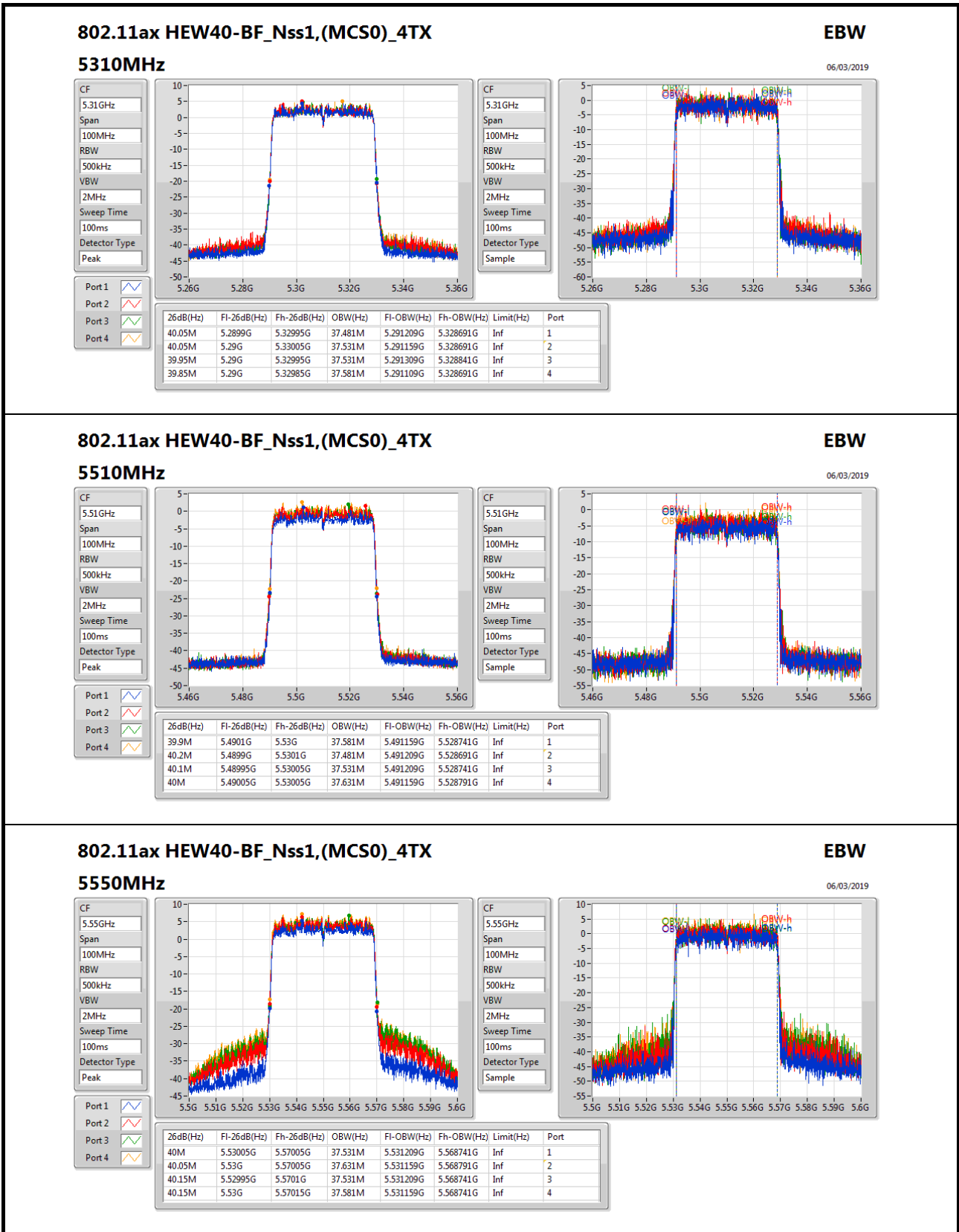
Port X-N dB = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band

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







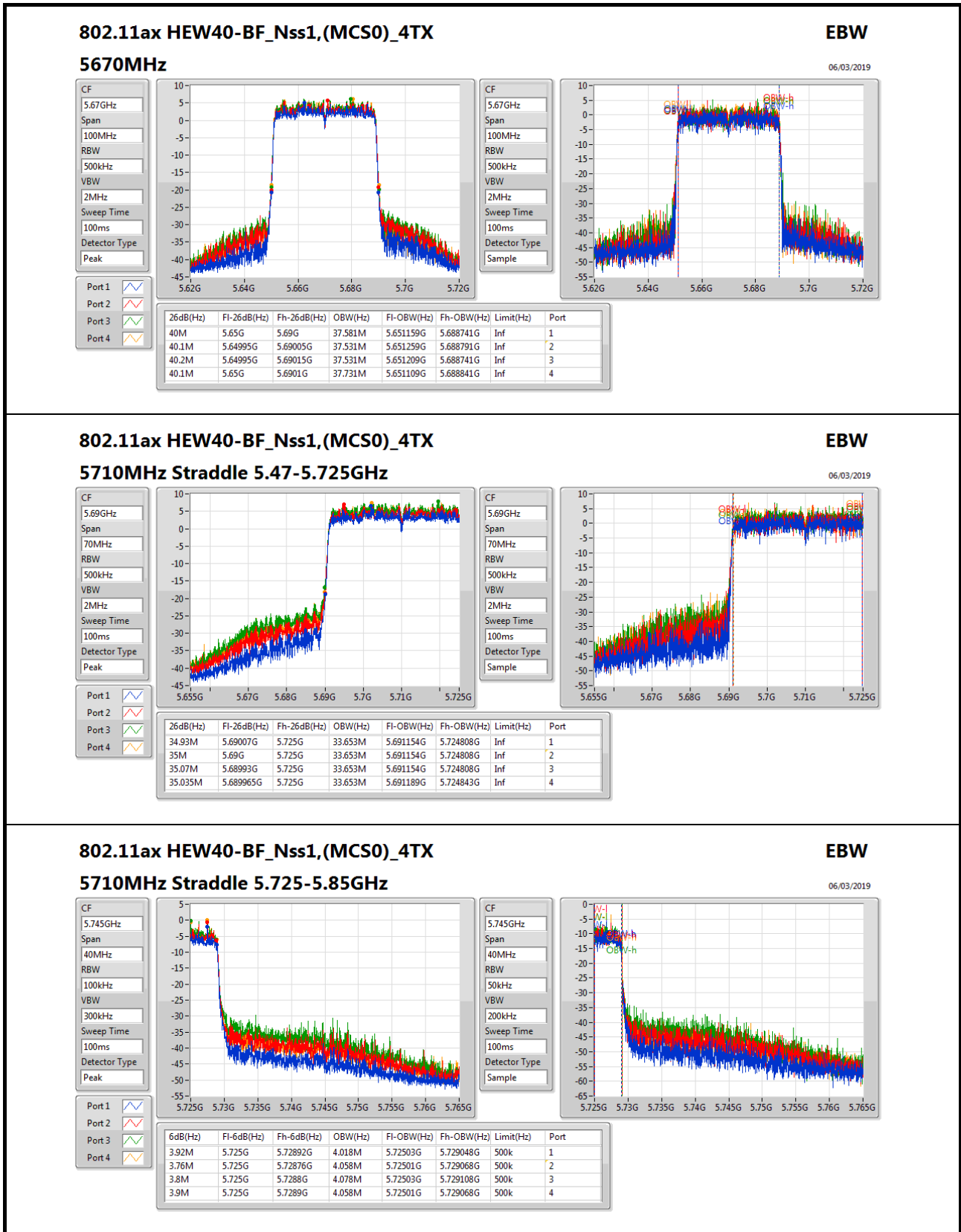

802.11ax HEW40-BF_Nss1,(MCS0)_4TX
EBW

06/03/2019

5550MHz

26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
40M	5.53005G	5.57005G	37.531M	5.531209G	5.568741G	Inf	1
40.05M	5.53G	5.57005G	37.631M	5.531159G	5.568791G	Inf	2
40.15M	5.52995G	5.5701G	37.531M	5.531209G	5.568741G	Inf	3
40.15M	5.53G	5.57015G	37.581M	5.531159G	5.568741G	Inf	4

26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
40M	5.53005G	5.57005G	37.531M	5.531209G	5.568741G	Inf	1
40.05M	5.53G	5.57005G	37.631M	5.531159G	5.568791G	Inf	2
40.15M	5.52995G	5.5701G	37.531M	5.531209G	5.568741G	Inf	3
40.15M	5.53G	5.57015G	37.581M	5.531159G	5.568741G	Inf	4



802.11ax HEW40-BF_Nss1,(MCS0)_4TX

5710MHz Straddle 5.725-5.85GHz

EBW

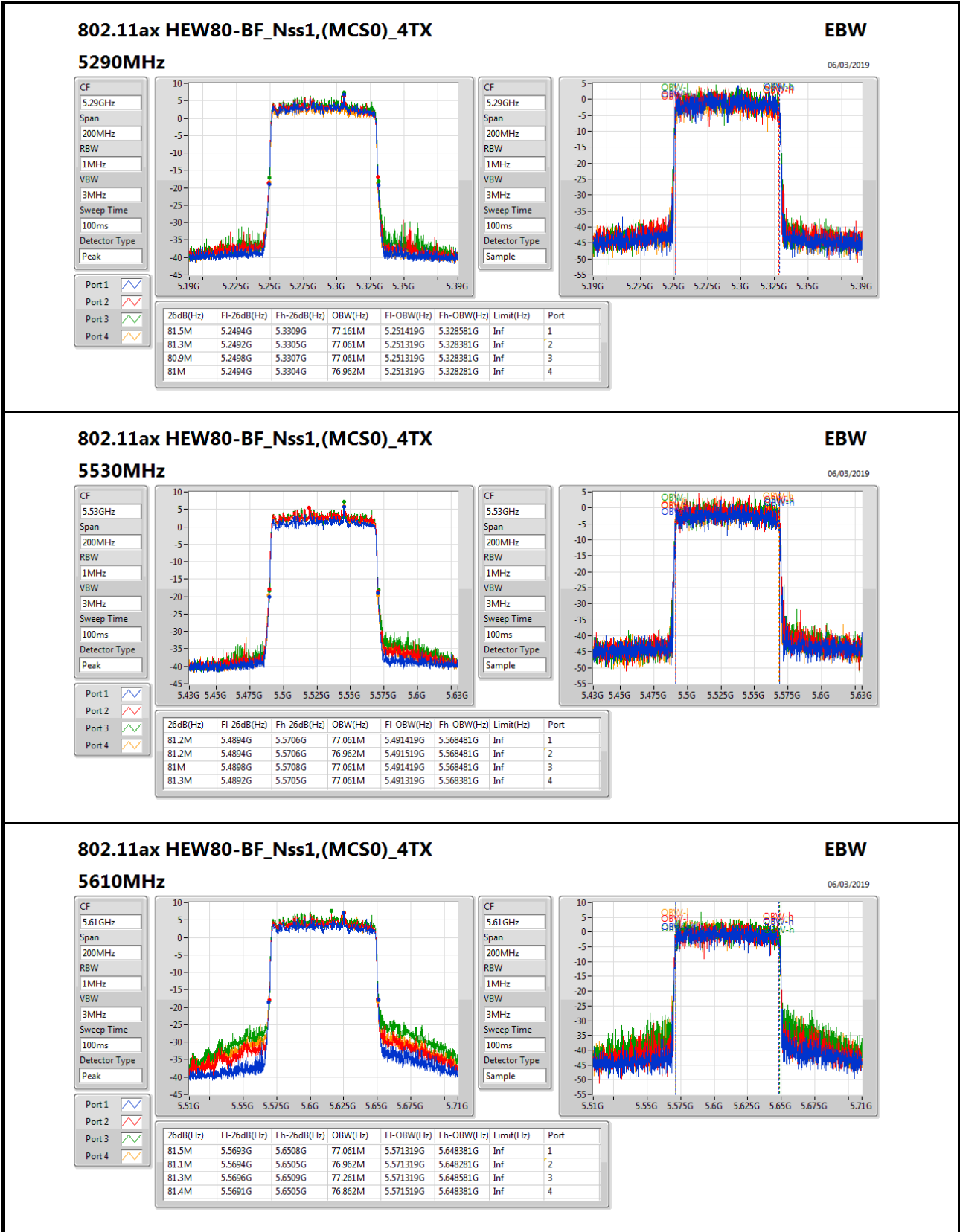
06/03/2019

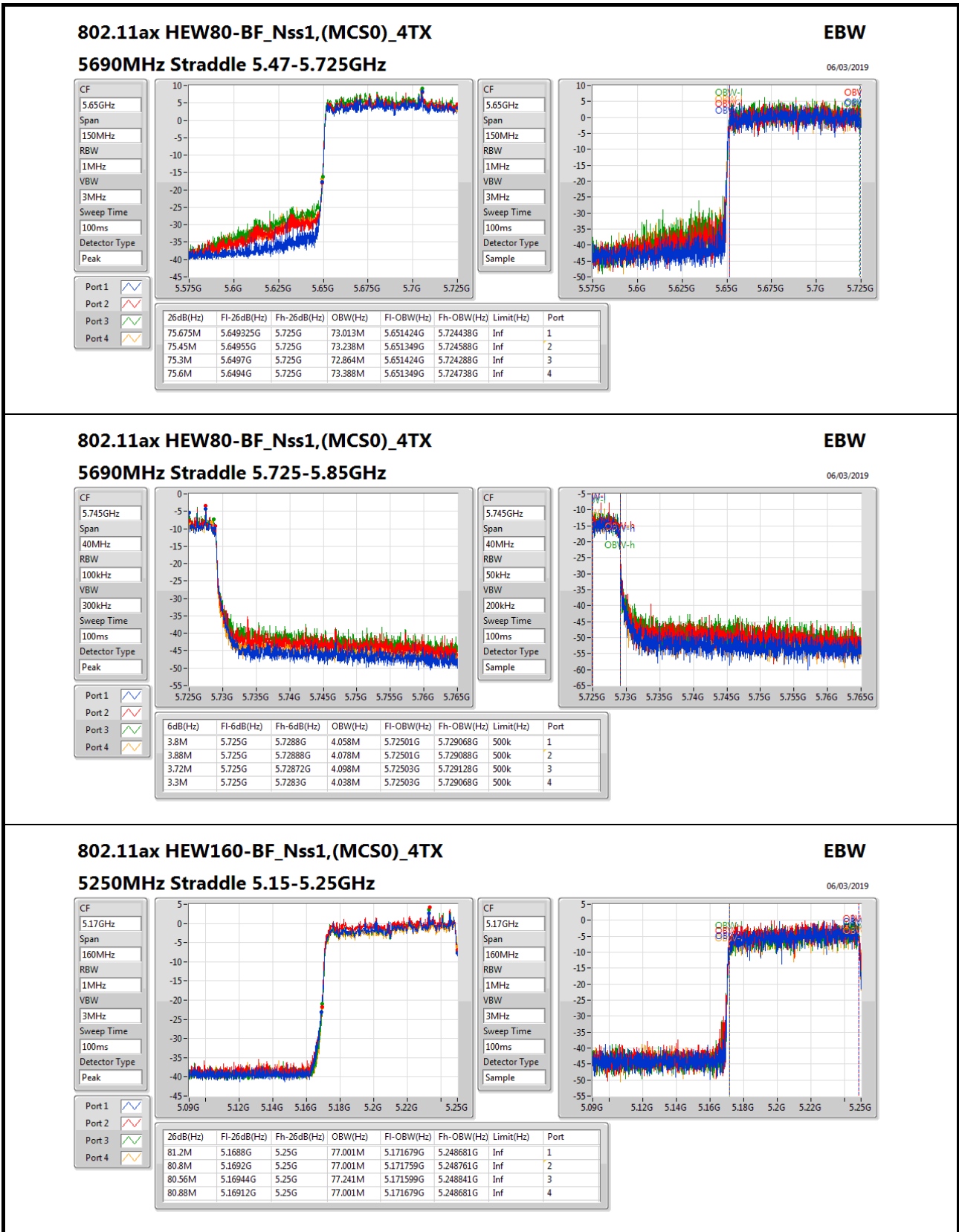
CF: 5.745GHz
Span: 40MHz
RBW: 100kHz
VBW: 300kHz
Sweep Time: 100ms
Detector Type: Peak

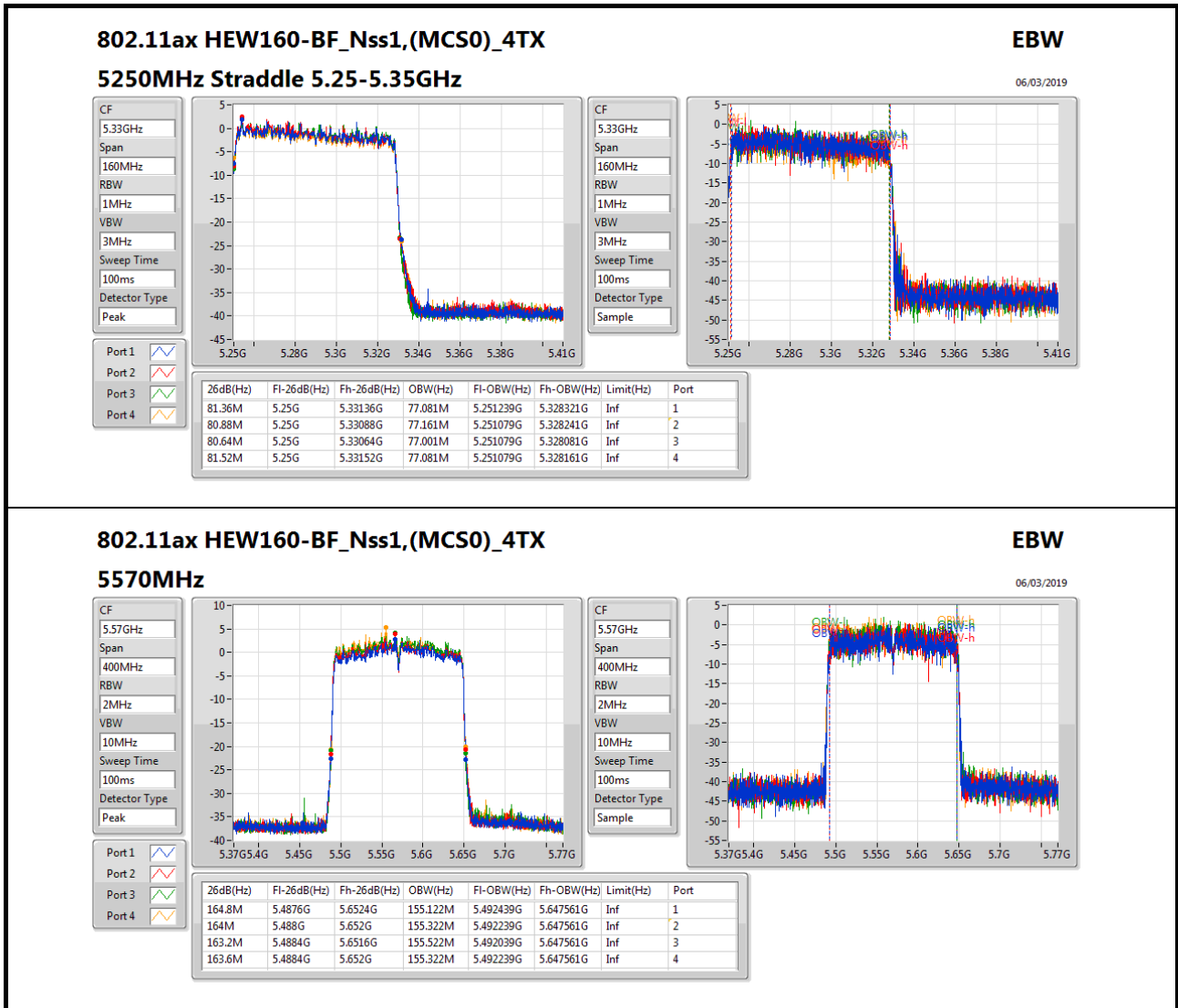
Port 1: [Waveform]
Port 2: [Waveform]
Port 3: [Waveform]
Port 4: [Waveform]

6dB(Hz)	FI-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	FI-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
3.92M	5.725G	5.72892G	4.018M	5.72503G	5.729048G	500k	1
3.76M	5.725G	5.72876G	4.058M	5.72501G	5.729068G	500k	2
3.8M	5.725G	5.7288G	4.078M	5.72503G	5.729108G	500k	3
3.9M	5.725G	5.7289G	4.058M	5.72501G	5.729068G	500k	4

CF: 5.745GHz
Span: 40MHz
RBW: 100kHz
VBW: 200kHz
Sweep Time: 100ms
Detector Type: Peak
Sample









EBW Result_Radio 1

**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 HEW160_Nss4,(MCS0)_4TX	81.52M	77.321M	77M3D1D	80.48M	77.081M
5.25-5.35GHz	-	-	-	-	-
802.11ax HEW20_Nss4,(MCS0)_4TX	22.1M	18.991M	19M0D1D	21.3M	18.941M
802.11ax HEW40_Nss4,(MCS0)_4TX	40.75M	37.581M	37M6D1D	40.15M	37.481M
802.11ax HEW80_Nss4,(MCS0)_4TX	81.8M	77.061M	77M1D1D	81.3M	76.962M
802.11ax HEW160_Nss4,(MCS0)_4TX	82.72M	77.241M	77M2D1D	81.12M	77.081M
5.47-5.725GHz	-	-	-	-	-
802.11ax HEW20_Nss4,(MCS0)_4TX	27.15M	19.015M	19M0D1D	18.915M	14.513M
802.11ax HEW40_Nss4,(MCS0)_4TX	49.95M	37.731M	37M7D1D	40.05M	33.688M
802.11ax HEW80_Nss4,(MCS0)_4TX	88.575M	77.161M	77M2D1D	75.9M	73.163M
802.11ax HEW160_Nss4,(MCS0)_4TX	165.6M	155.122M	155MD1D	164.8M	154.723M
5.725-5.85GHz	-	-	-	-	-
802.11ax HEW20_Nss4,(MCS0)_4TX	4.5M	7.076M	7M08D1D	4.4M	5.357M
802.11ax HEW40_Nss4,(MCS0)_4TX	3.92M	18.431M	18M4D1D	3.9M	14.573M
802.11ax HEW80_Nss4,(MCS0)_4TX	3.96M	25.867M	25M9D1D	3.56M	22.909M

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

Max-OBW = Maximum 99% occupied bandwidth;

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

Min-OBW = Minimum 99% occupied bandwidth;



EBW Result_Radio 1

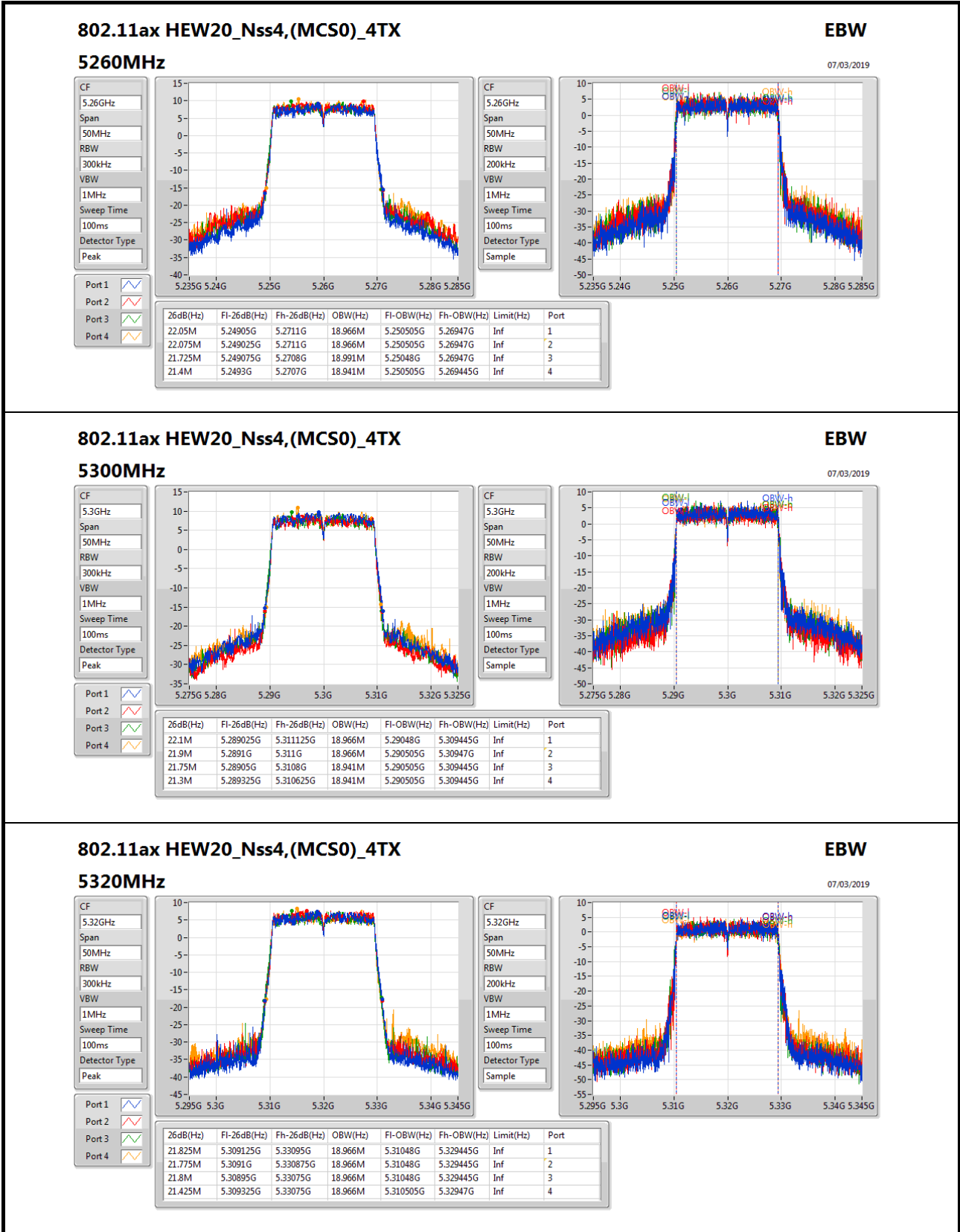
Appendix A.5

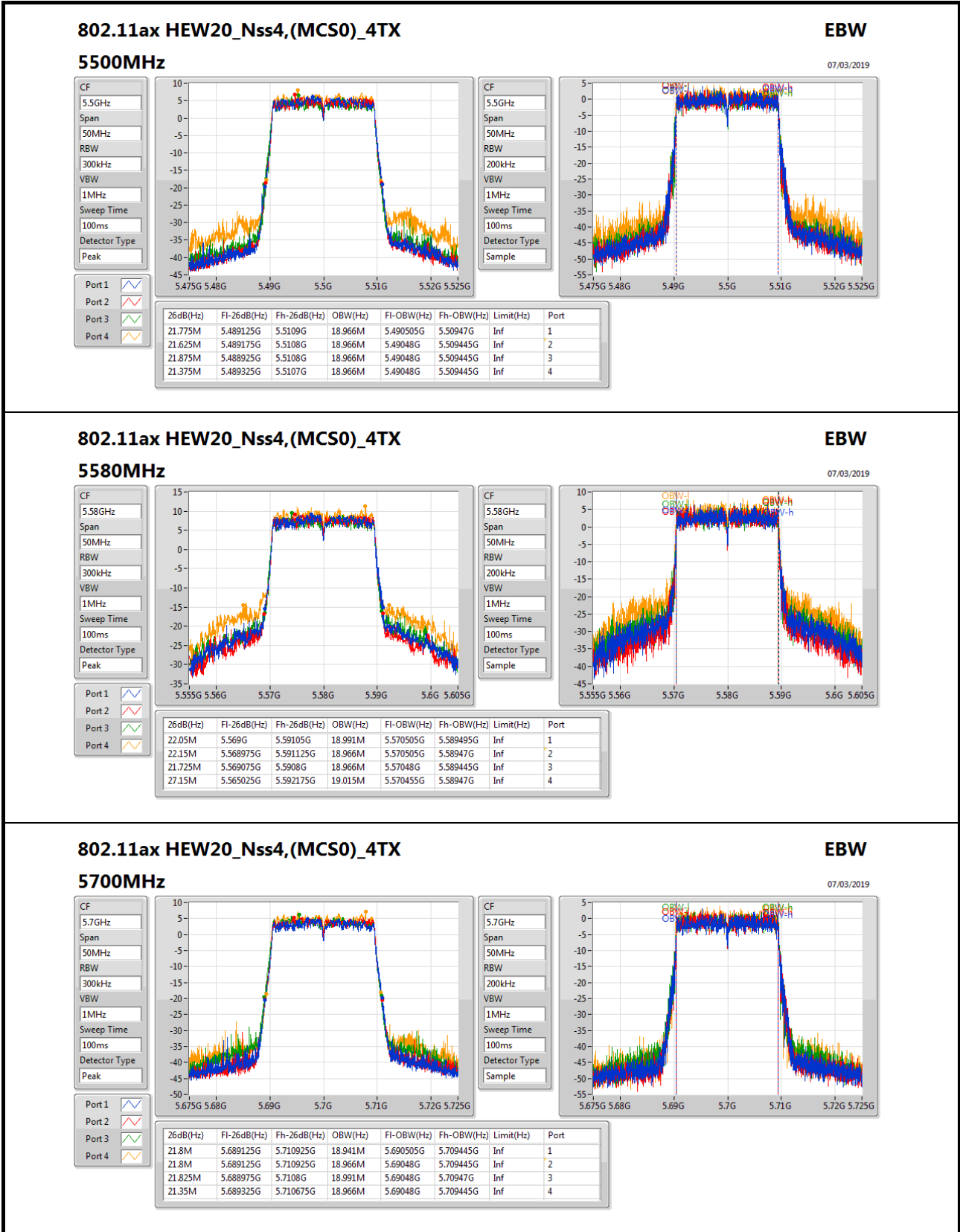
Result

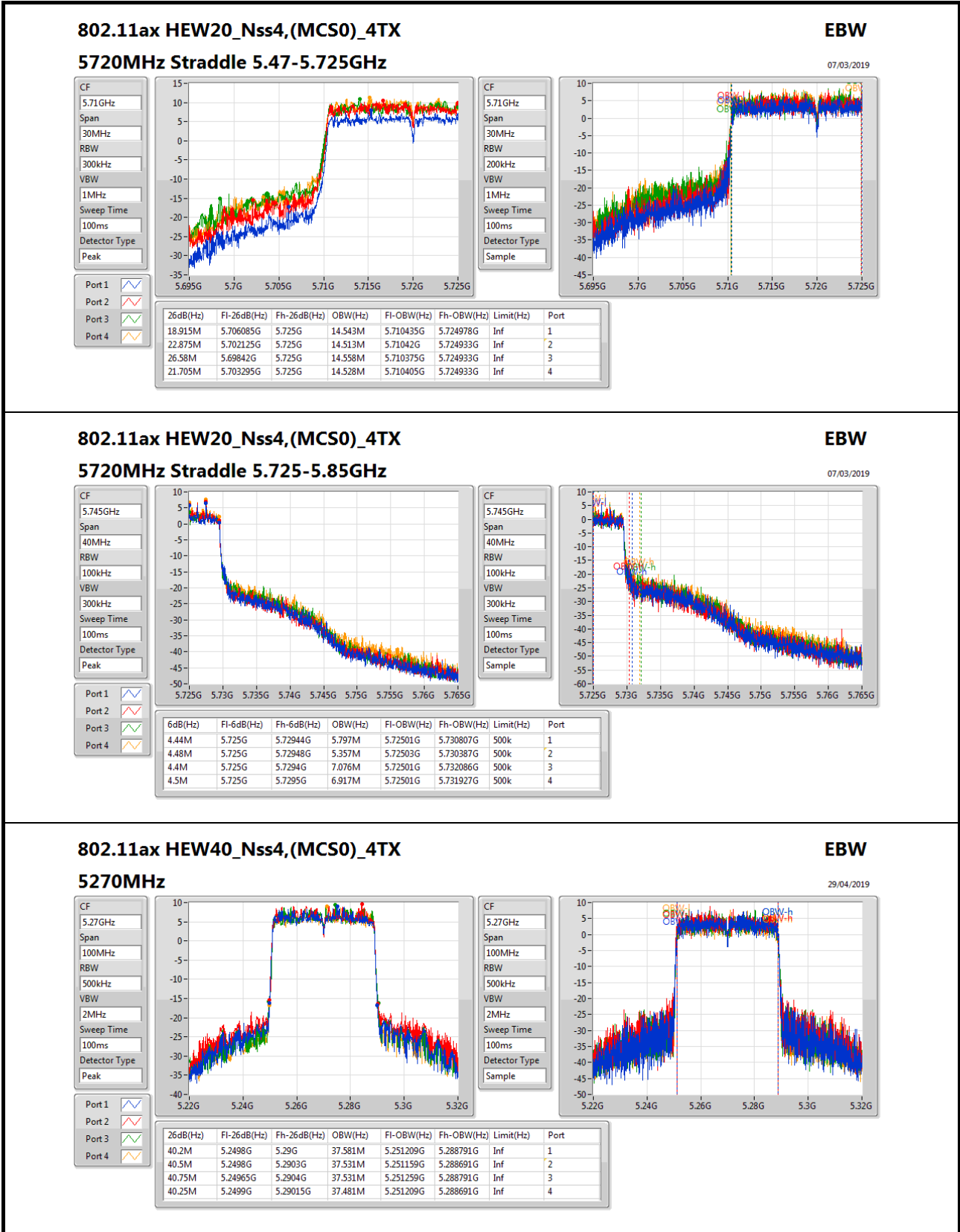
Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)	Port 3-N dB (Hz)	Port 3-OBW (Hz)	Port 4-N dB (Hz)	Port 4-OBW (Hz)
802.11ax HEW20_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5260MHz	Pass	Inf	22.05M	18.966M	22.075M	18.966M	21.725M	18.991M	21.4M	18.941M
5300MHz	Pass	Inf	22.1M	18.966M	21.9M	18.966M	21.75M	18.941M	21.3M	18.941M
5320MHz	Pass	Inf	21.825M	18.966M	21.775M	18.966M	21.8M	18.966M	21.425M	18.966M
5500MHz	Pass	Inf	21.775M	18.966M	21.625M	18.966M	21.875M	18.966M	21.375M	18.966M
5580MHz	Pass	Inf	22.05M	18.991M	22.15M	18.966M	21.725M	18.966M	27.15M	19.015M
5700MHz	Pass	Inf	21.8M	18.941M	21.8M	18.966M	21.825M	18.991M	21.35M	18.966M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	18.915M	14.543M	22.875M	14.513M	26.58M	14.558M	21.705M	14.528M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	4.44M	5.797M	4.48M	5.357M	4.4M	7.076M	4.5M	6.917M
802.11ax HEW40_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5270MHz	Pass	Inf	40.2M	37.581M	40.5M	37.531M	40.75M	37.531M	40.25M	37.481M
5310MHz	Pass	Inf	40.2M	37.581M	40.15M	37.531M	40.15M	37.531M	40.25M	37.581M
5510MHz	Pass	Inf	40.15M	37.481M	40.05M	37.531M	40.1M	37.581M	40.2M	37.581M
5550MHz	Pass	Inf	40.3M	37.581M	40.5M	37.631M	40.85M	37.631M	49.95M	37.581M
5670MHz	Pass	Inf	40.2M	37.581M	40.2M	37.531M	40.1M	37.581M	40.2M	37.731M
5710MHz Straddle 5.47-5.725GHz	Pass	Inf	44.345M	33.758M	40.075M	33.758M	45.22M	33.723M	43.085M	33.688M
5710MHz Straddle 5.725-5.85GHz	Pass	500k	3.92M	14.573M	3.9M	16.312M	3.9M	18.431M	3.9M	18.151M
802.11ax HEW80_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5290MHz	Pass	Inf	81.4M	77.061M	81.3M	77.061M	81.8M	77.061M	81.7M	76.962M
5530MHz	Pass	Inf	81.7M	77.061M	81.2M	76.862M	81.9M	77.161M	82M	77.061M
5610MHz	Pass	Inf	81.7M	76.962M	81.2M	77.061M	81.8M	76.962M	81.9M	76.962M
5690MHz Straddle 5.47-5.725GHz	Pass	Inf	86.475M	73.388M	75.9M	73.163M	85.35M	73.313M	88.575M	73.313M
5690MHz Straddle 5.725-5.85GHz	Pass	500k	3.56M	25.867M	3.78M	22.909M	3.96M	25.387M	3.74M	23.528M
802.11ax HEW160_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	Inf	80.96M	77.081M	81.52M	77.321M	80.48M	77.161M	80.72M	77.081M
5250MHz Straddle 5.25-5.35GHz	Pass	Inf	81.84M	77.161M	81.84M	77.161M	82.72M	77.241M	81.12M	77.081M
5570MHz	Pass	Inf	164.8M	155.122M	165.6M	155.122M	165.2M	154.723M	165M	154.723M

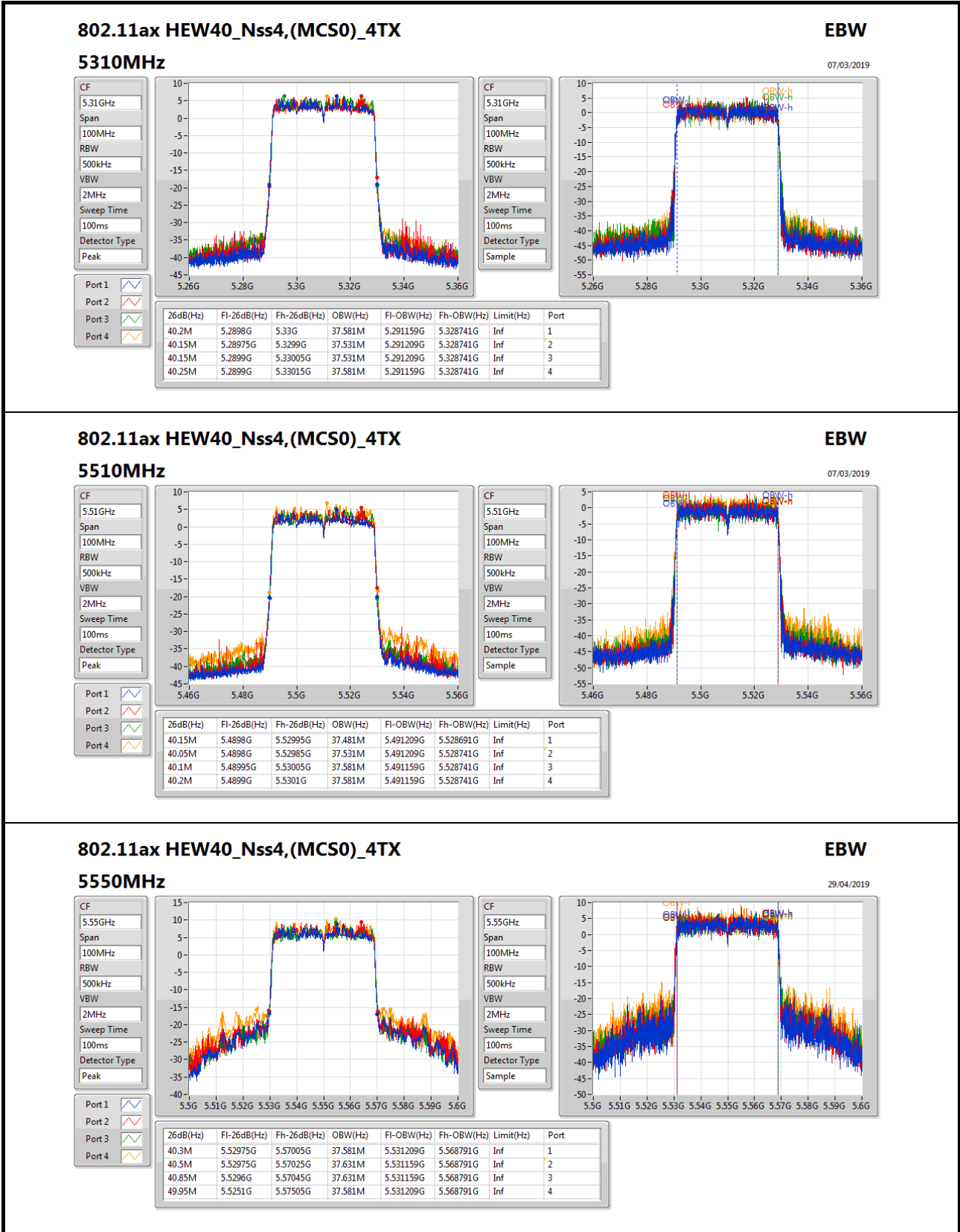
Port X-N dB = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band

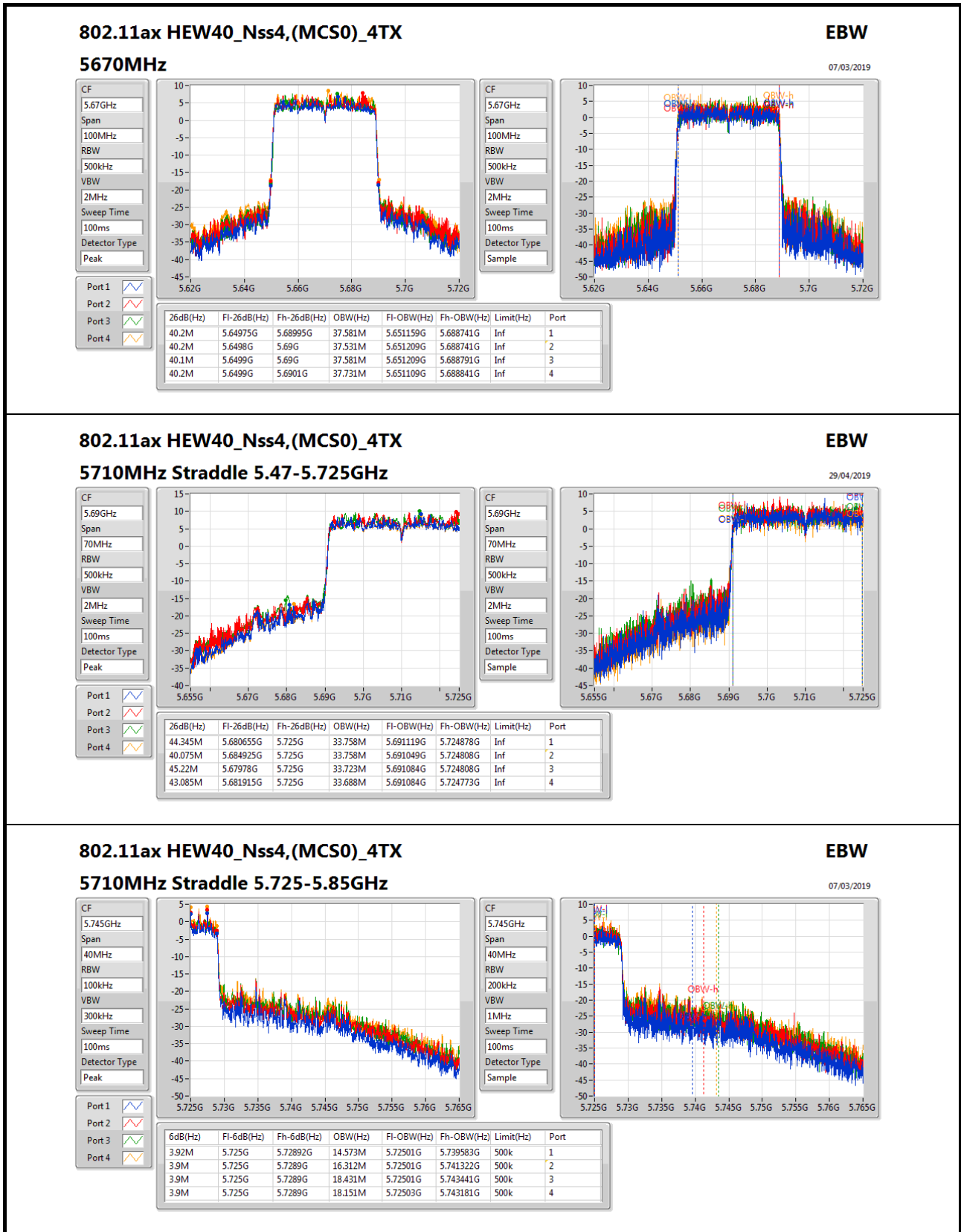
Port X-OBW = Port X 99% occupied bandwidth;

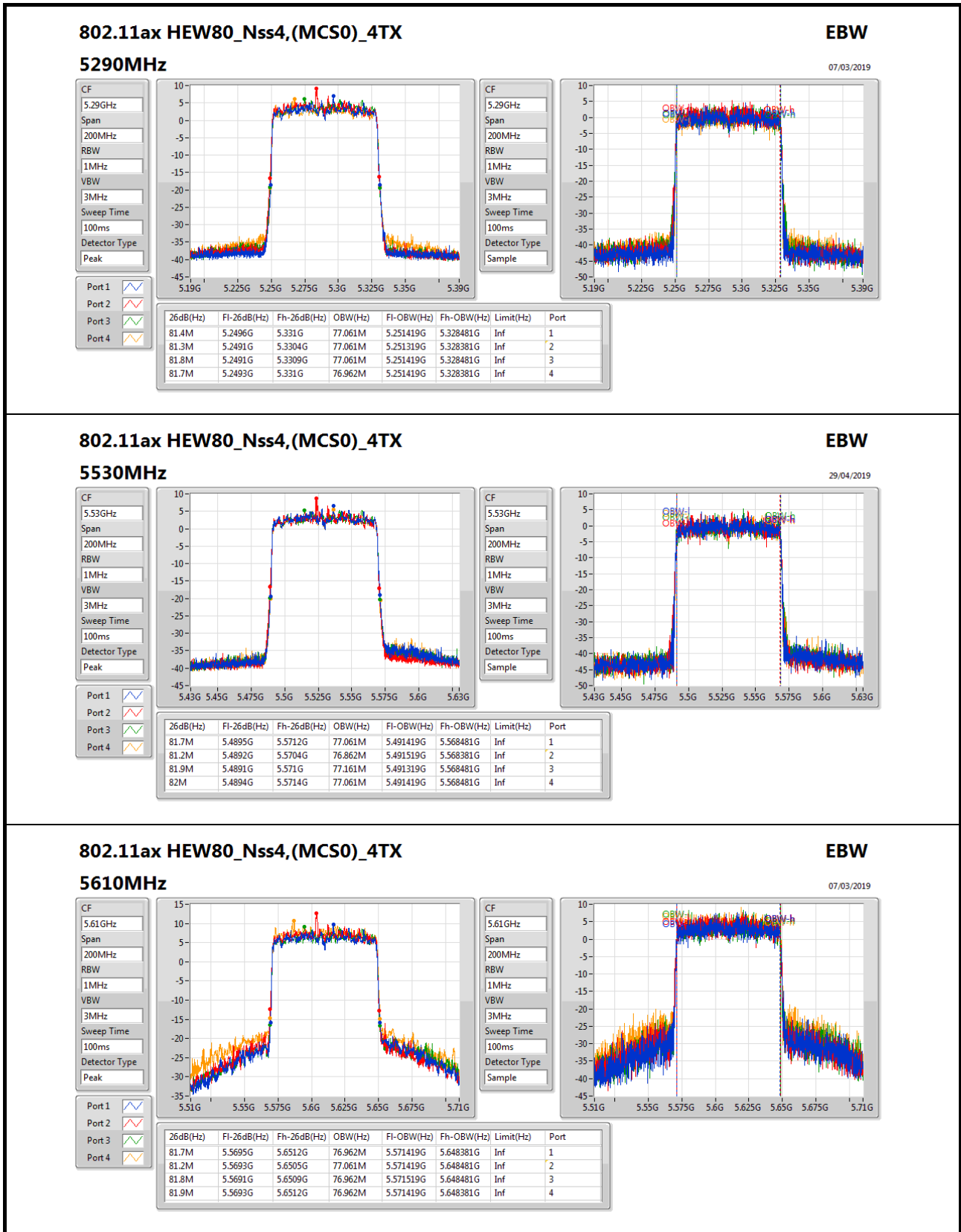


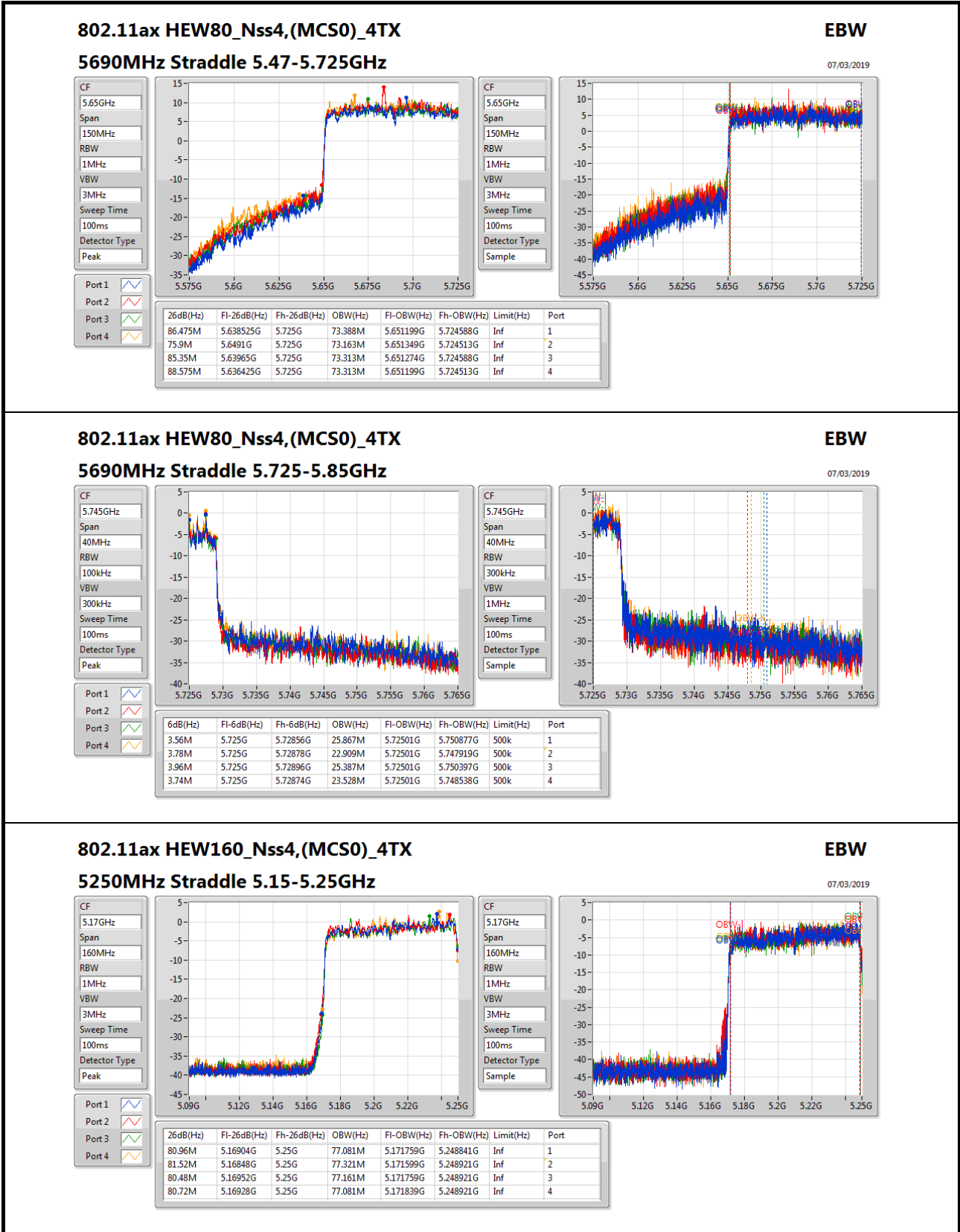


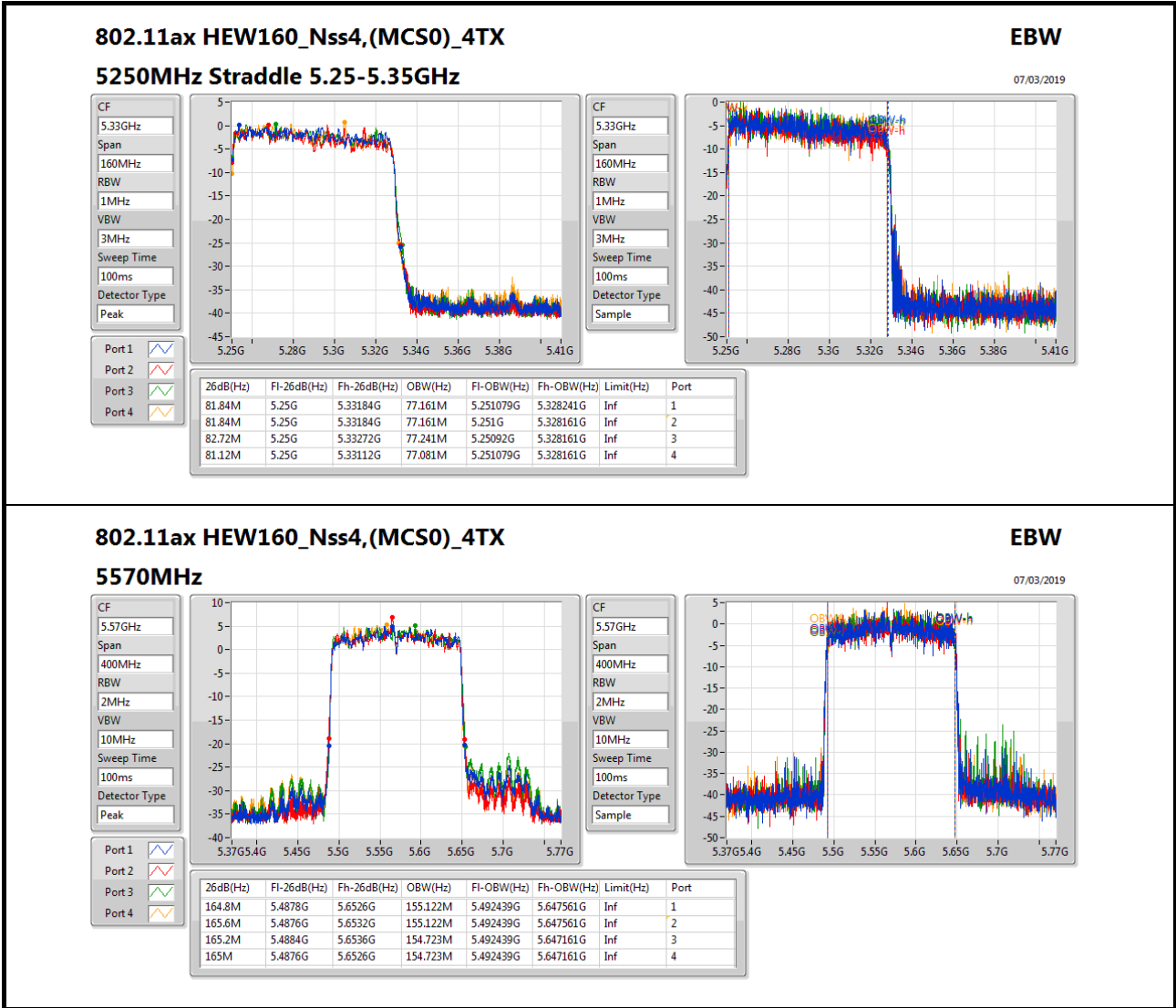














EBW Result_Radio 1

Appendix A.6

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	-	-	-	-	-
802.11ax HEW160_Nss1,(MCS0)_1TX	81.12M	77.161M	77M2D1D	81.12M	77.161M
5.25-5.35GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	43.175M	17.941M	17M9D1D	21.425M	16.567M
802.11ax HEW20_Nss1,(MCS0)_1TX	44.575M	19.14M	19M1D1D	23M	18.966M
802.11ax HEW40_Nss1,(MCS0)_1TX	44.8M	37.581M	37M6D1D	39.95M	37.531M
802.11ax HEW80_Nss1,(MCS0)_1TX	81.4M	77.261M	77M3D1D	81.4M	77.261M
802.11ax HEW160_Nss1,(MCS0)_1TX	81.2M	77.161M	77M2D1D	81.2M	77.161M
5.47-5.725GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	38.45M	16.792M	16M8D1D	21.525M	14.033M
802.11ax HEW20_Nss1,(MCS0)_1TX	40.925M	19.19M	19M2D1D	21.625M	14.873M
802.11ax HEW40_Nss1,(MCS0)_1TX	66.7M	37.731M	37M7D1D	39.95M	34.213M
802.11ax HEW80_Nss1,(MCS0)_1TX	122.85M	77.161M	77M2D1D	81.6M	74.288M
802.11ax HEW160_Nss1,(MCS0)_1TX	164.8M	154.923M	155MD1D	164.8M	154.923M
5.725-5.85GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	3.14M	9.195M	9M20D1D	3.14M	9.195M
802.11ax HEW20_Nss1,(MCS0)_1TX	4.46M	11.194M	11M2D1D	4.46M	11.194M
802.11ax HEW40_Nss1,(MCS0)_1TX	3.78M	24.148M	24M1D1D	3.78M	24.148M
802.11ax HEW80_Nss1,(MCS0)_1TX	3.38M	36.282M	36M3D1D	3.38M	36.282M

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

Max-OBW = Maximum 99% occupied bandwidth;

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

Min-OBW = Minimum 99% occupied bandwidth;



EBW Result_Radio 1

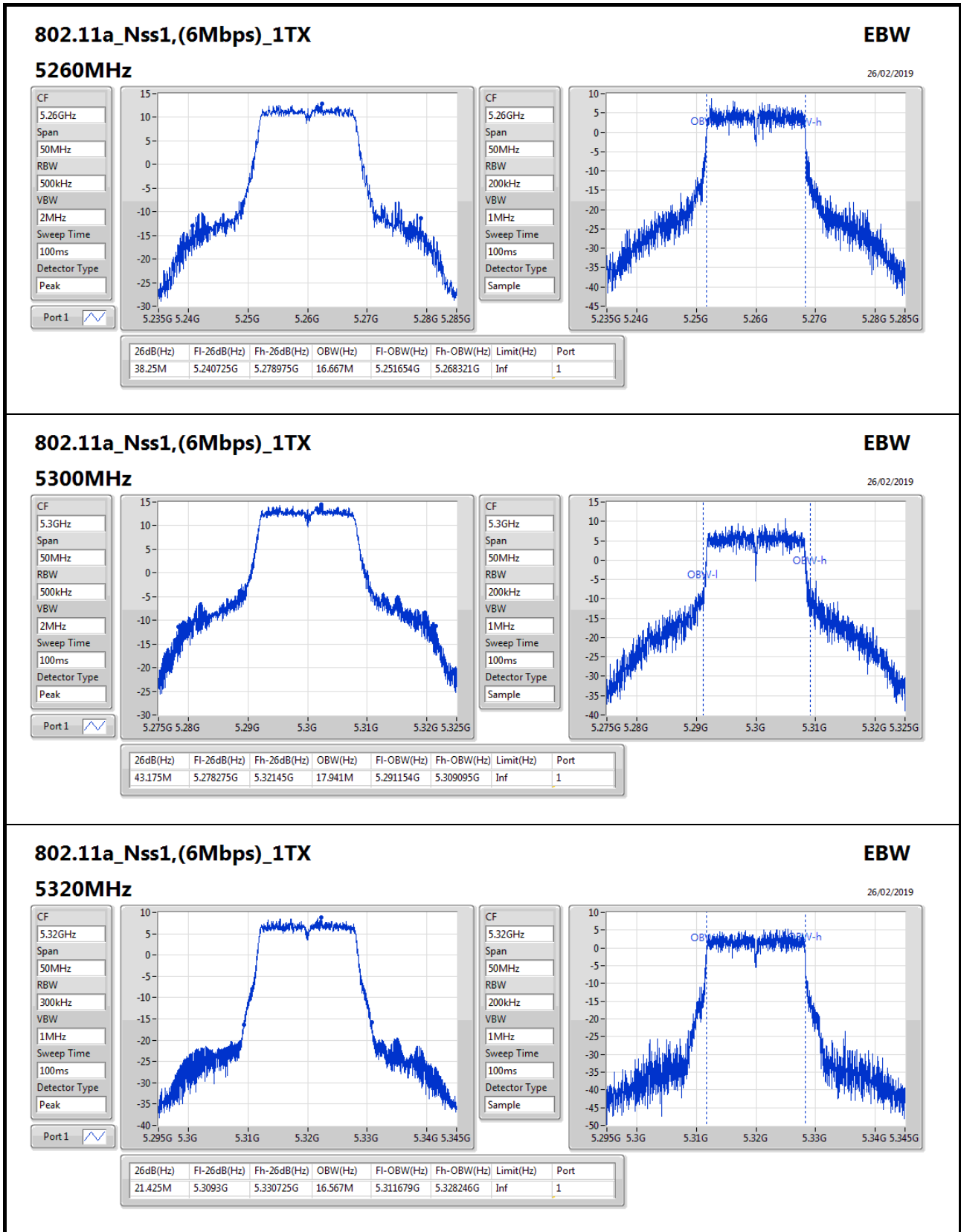
Appendix A.6

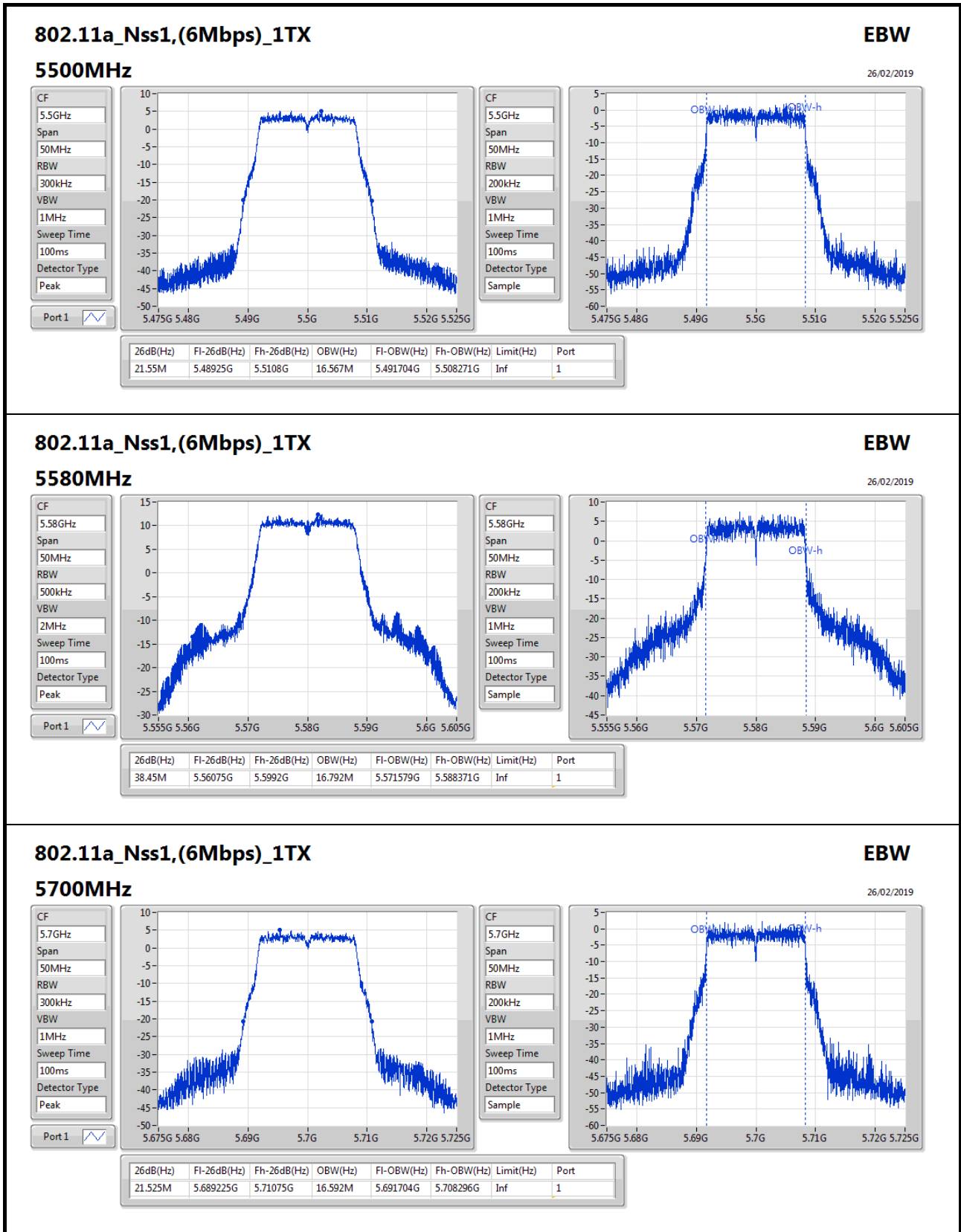
Result

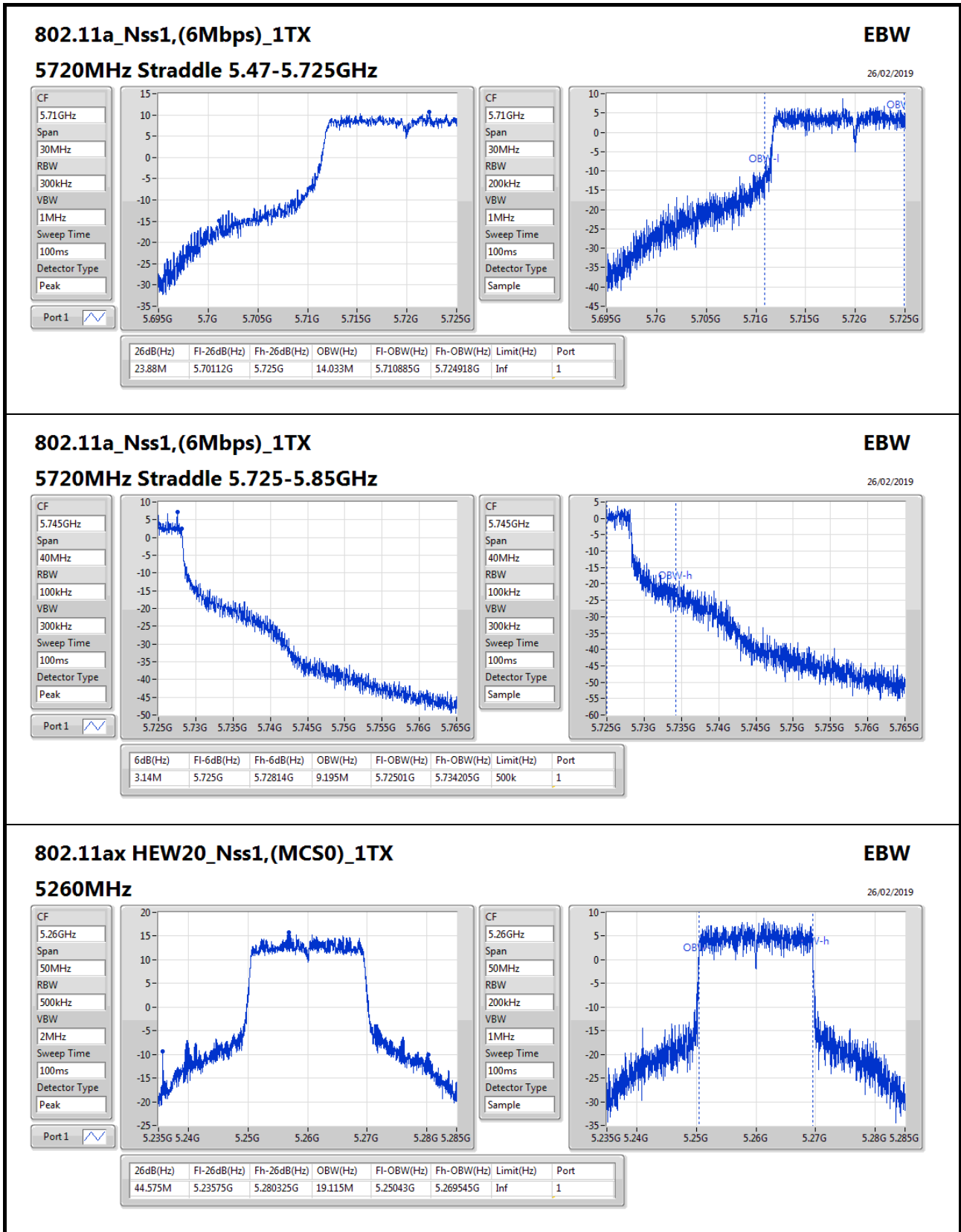
Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
802.11a_Nss1,(6Mbps)_1TX	-	-	-	-
5260MHz	Pass	Inf	38.25M	16.667M
5300MHz	Pass	Inf	43.175M	17.941M
5320MHz	Pass	Inf	21.425M	16.567M
5500MHz	Pass	Inf	21.55M	16.567M
5580MHz	Pass	Inf	38.45M	16.792M
5700MHz	Pass	Inf	21.525M	16.592M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	23.88M	14.033M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	3.14M	9.195M
802.11ax HEW20_Nss1,(MCS0)_1TX	-	-	-	-
5260MHz	Pass	Inf	44.575M	19.115M
5300MHz	Pass	Inf	40.575M	19.14M
5320MHz	Pass	Inf	23M	18.966M
5500MHz	Pass	Inf	21.625M	18.941M
5580MHz	Pass	Inf	40.925M	19.19M
5700MHz	Pass	Inf	21.675M	18.966M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	26.265M	14.873M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	4.46M	11.194M
802.11ax HEW40_Nss1,(MCS0)_1TX	-	-	-	-
5270MHz	Pass	Inf	44.8M	37.581M
5310MHz	Pass	Inf	39.95M	37.531M
5510MHz	Pass	Inf	39.95M	37.481M
5550MHz	Pass	Inf	66.7M	37.731M
5670MHz	Pass	Inf	40.05M	37.581M
5710MHz Straddle 5.47-5.725GHz	Pass	Inf	54.005M	34.213M
5710MHz Straddle 5.725-5.85GHz	Pass	500k	3.78M	24.148M
802.11ax HEW80_Nss1,(MCS0)_1TX	-	-	-	-
5290MHz	Pass	Inf	81.4M	77.261M
5530MHz	Pass	Inf	81.6M	76.962M
5610MHz	Pass	Inf	90.8M	77.161M
5690MHz Straddle 5.47-5.725GHz	Pass	Inf	122.85M	74.288M
5690MHz Straddle 5.725-5.85GHz	Pass	500k	3.38M	36.282M
802.11ax HEW160_Nss1,(MCS0)_1TX	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	Inf	81.12M	77.161M
5250MHz Straddle 5.25-5.35GHz	Pass	Inf	81.2M	77.161M
5570MHz	Pass	Inf	164.8M	154.923M

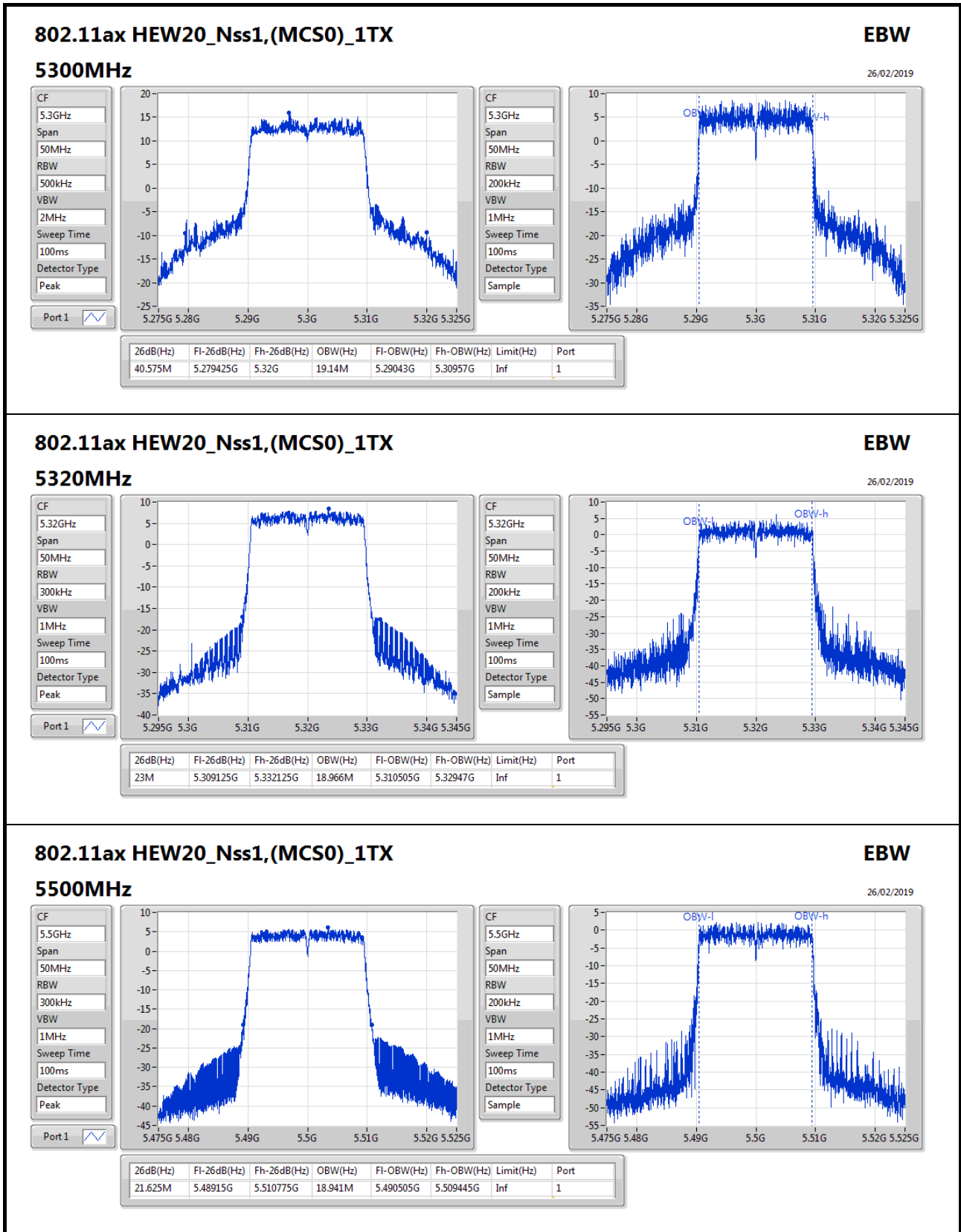
Port X-N dB = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band

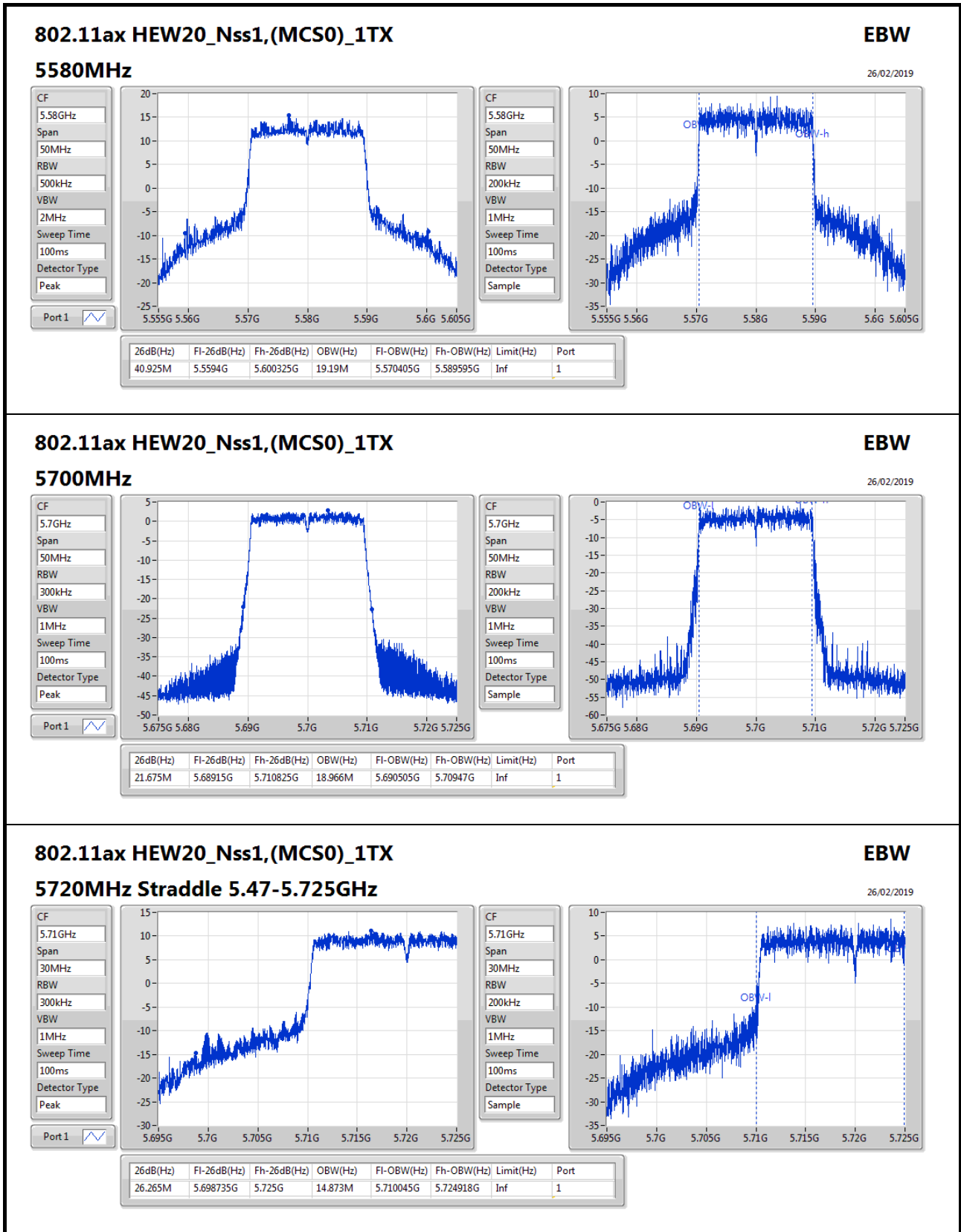
Port X-OBW = Port X 99% occupied bandwidth;

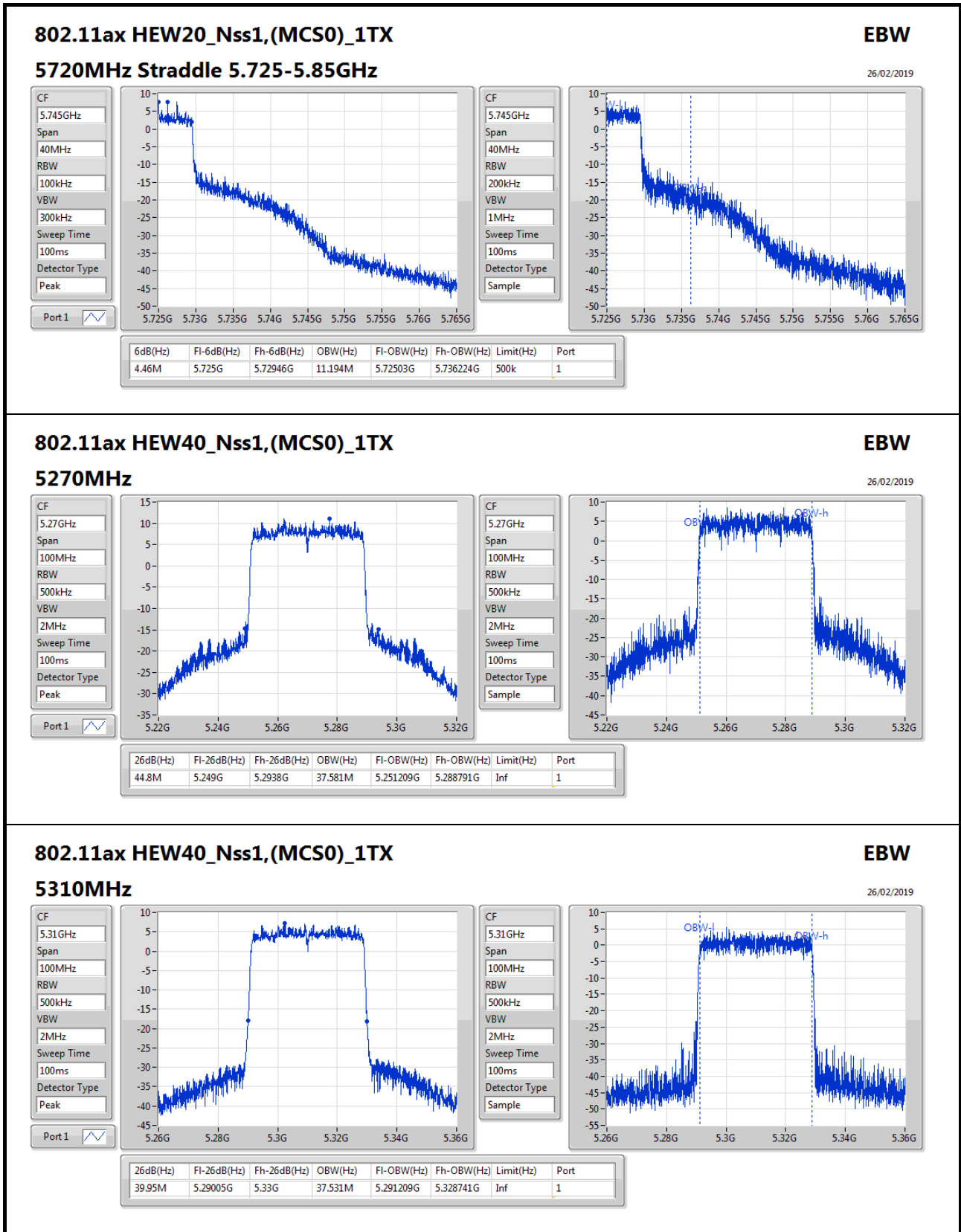


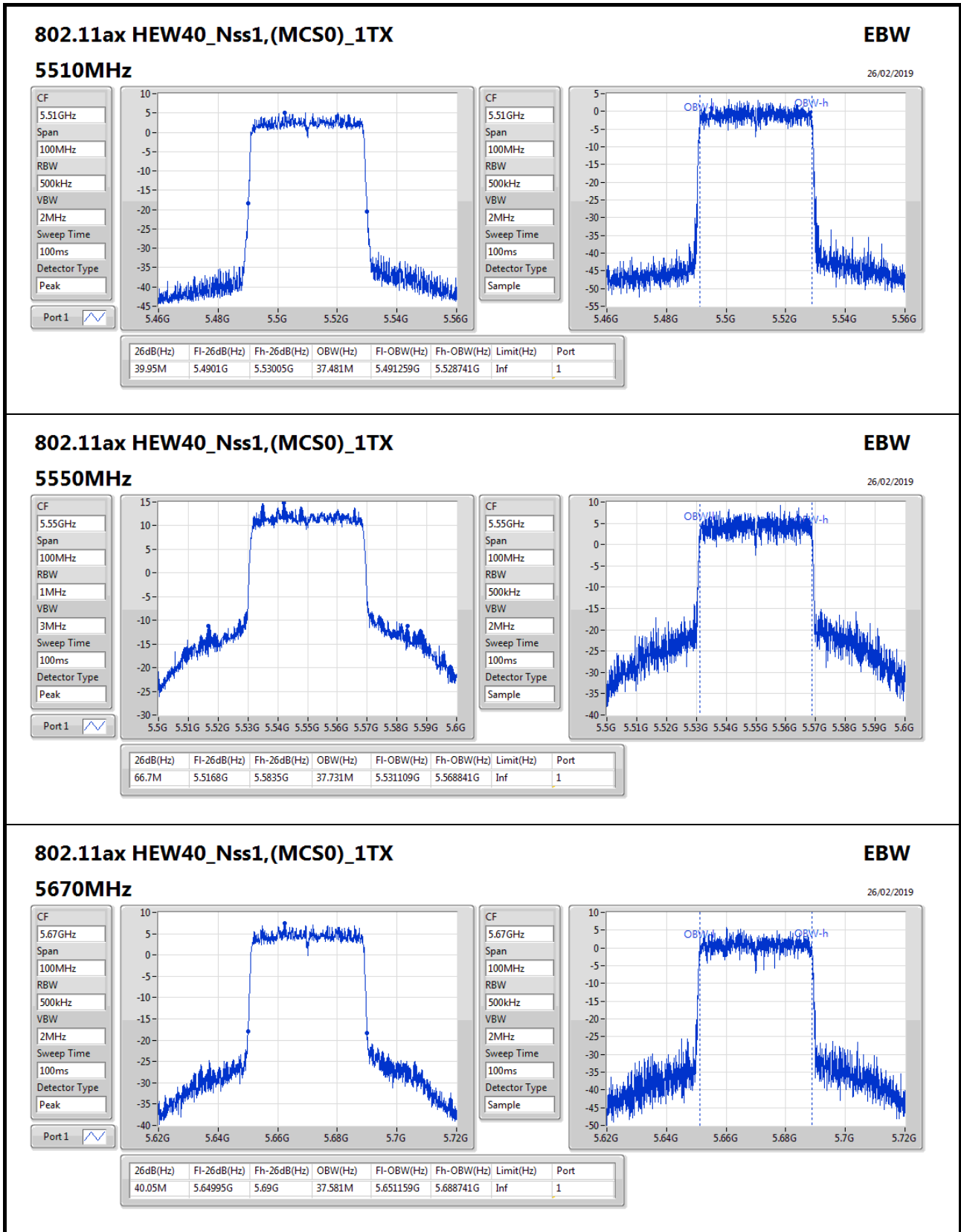








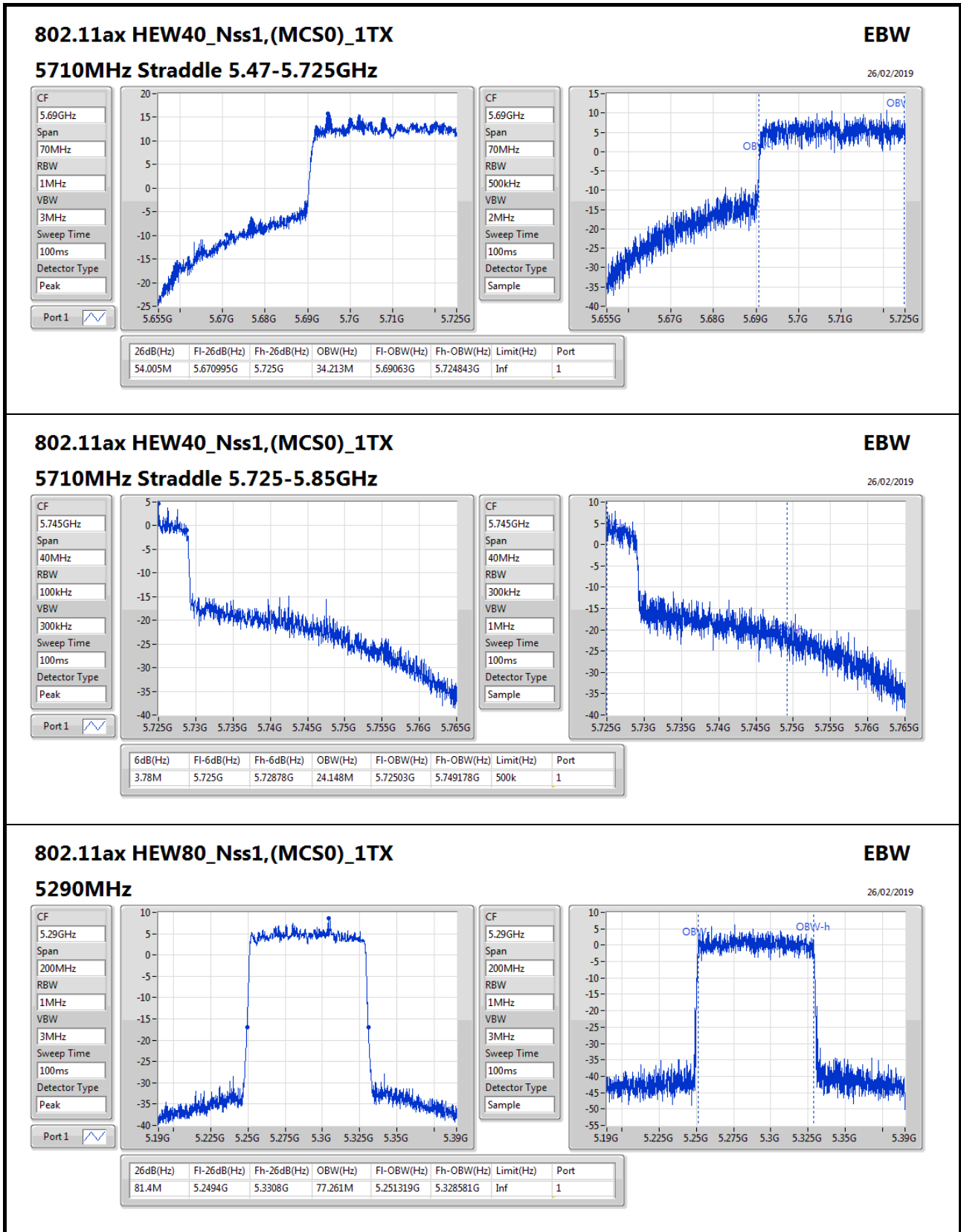


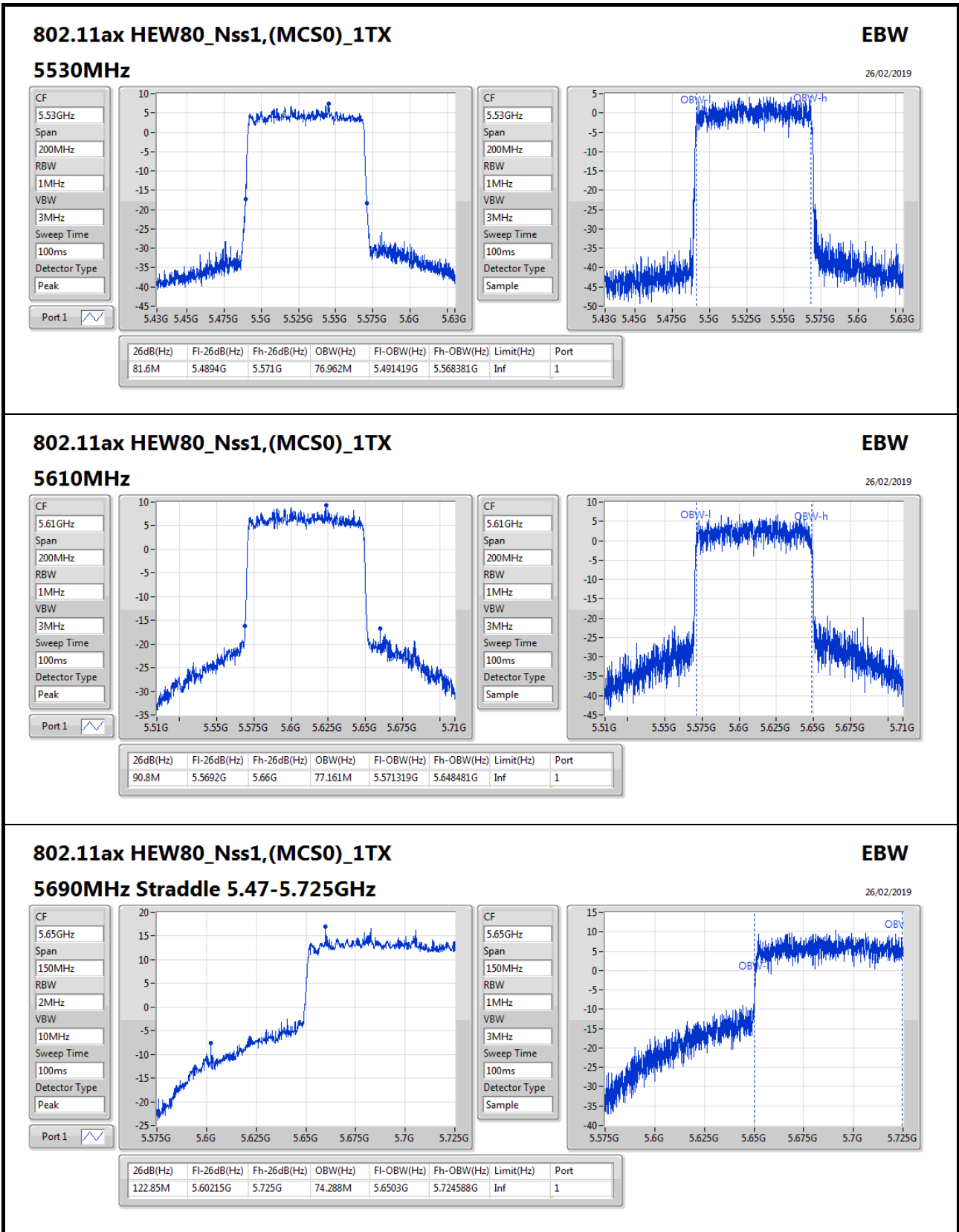

802.11ax HEW40_Nss1,(MCS0)_1TX
EBW
5670MHz
26/02/2019

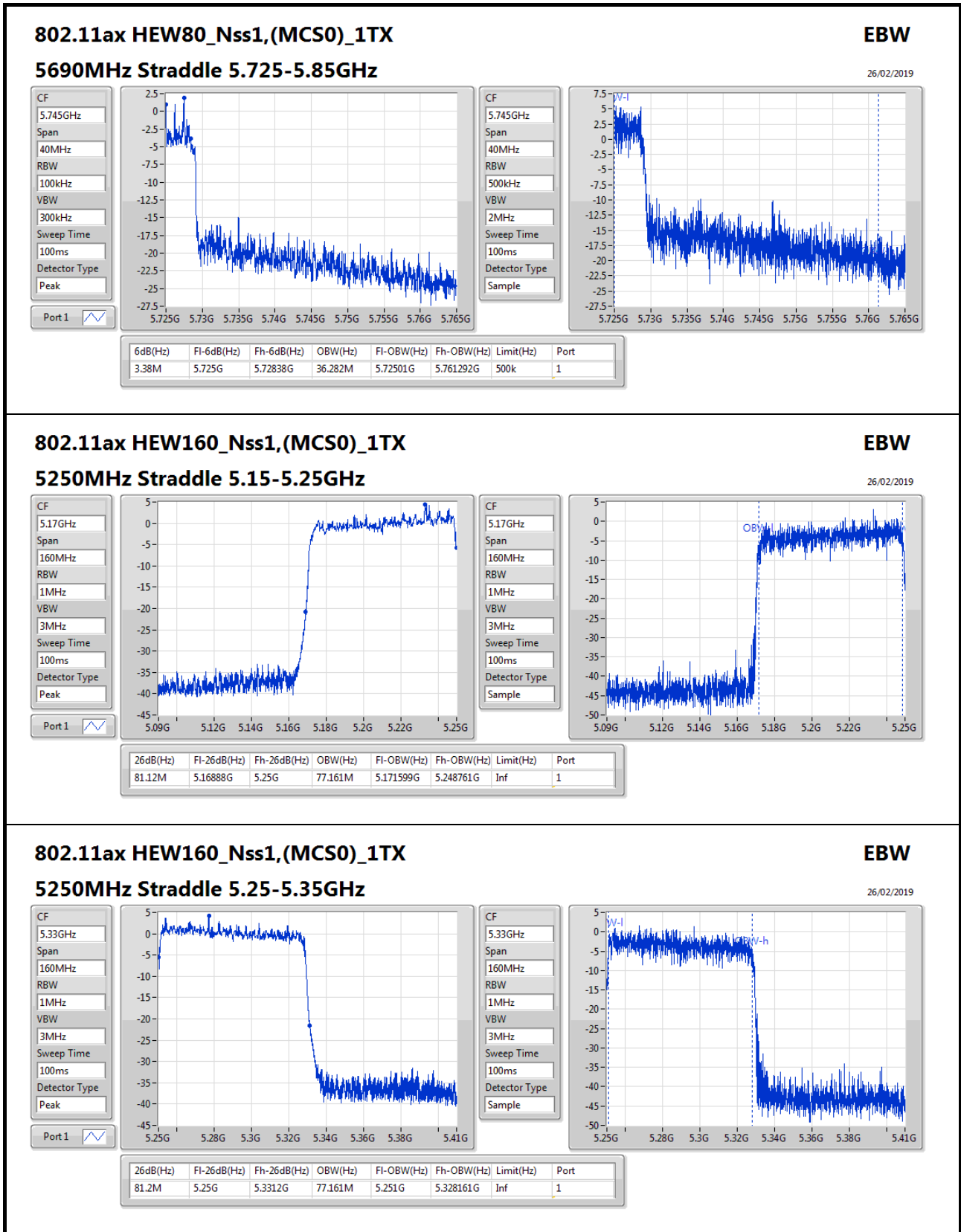
CF: 5.67GHz
Span: 100MHz
RBW: 500kHz
VBW: 2MHz
Sweep Time: 100ms
Detector Type: Peak

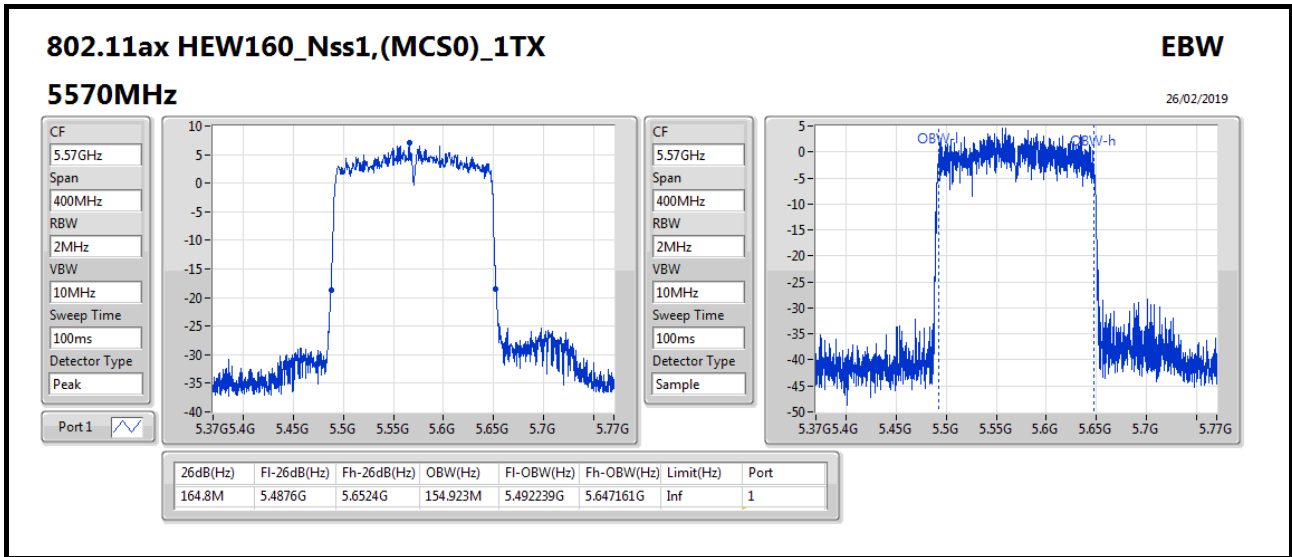
Port 1

CF: 5.67GHz
Span: 100MHz
RBW: 500kHz
VBW: 2MHz
Sweep Time: 100ms
Detector Type: Sample











**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 HEW160_Nss2,(MCS0)_2TX	81.92M	77.401M	77M4D1D	81.12M	77.161M
5.25-5.35GHz	-	-	-	-	-
802.11ax HEW20_Nss2,(MCS0)_2TX	42.575M	19.115M	19M1D1D	21.3M	18.941M
802.11ax HEW40_Nss2,(MCS0)_2TX	40.1M	37.631M	37M6D1D	39.85M	37.431M
802.11ax HEW80_Nss2,(MCS0)_2TX	81.8M	77.061M	77M1D1D	81.1M	76.862M
802.11ax HEW160_Nss2,(MCS0)_2TX	81.28M	77.241M	77M2D1D	80.56M	77.081M
5.47-5.725GHz	-	-	-	-	-
802.11ax HEW20_Nss2,(MCS0)_2TX	42.925M	19.265M	19M3D1D	21.35M	14.708M
802.11ax HEW40_Nss2,(MCS0)_2TX	57.575M	37.631M	37M6D1D	39.95M	33.898M
802.11ax HEW80_Nss2,(MCS0)_2TX	97.125M	77.161M	77M2D1D	81.5M	73.238M
802.11ax HEW160_Nss2,(MCS0)_2TX	164.6M	154.923M	155MD1D	164.6M	154.923M
5.725-5.85GHz	-	-	-	-	-
802.11ax HEW20_Nss2,(MCS0)_2TX	4.44M	12.134M	12M1D1D	4.42M	9.795M
802.11ax HEW40_Nss2,(MCS0)_2TX	3.76M	24.728M	24M7D1D	3.64M	23.788M
802.11ax HEW80_Nss2,(MCS0)_2TX	3.8M	30.025M	30M0D1D	3.76M	28.406M

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

Max-OBW = Maximum 99% occupied bandwidth;

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

Min-OBW = Minimum 99% occupied bandwidth;



EBW Result_Radio 1

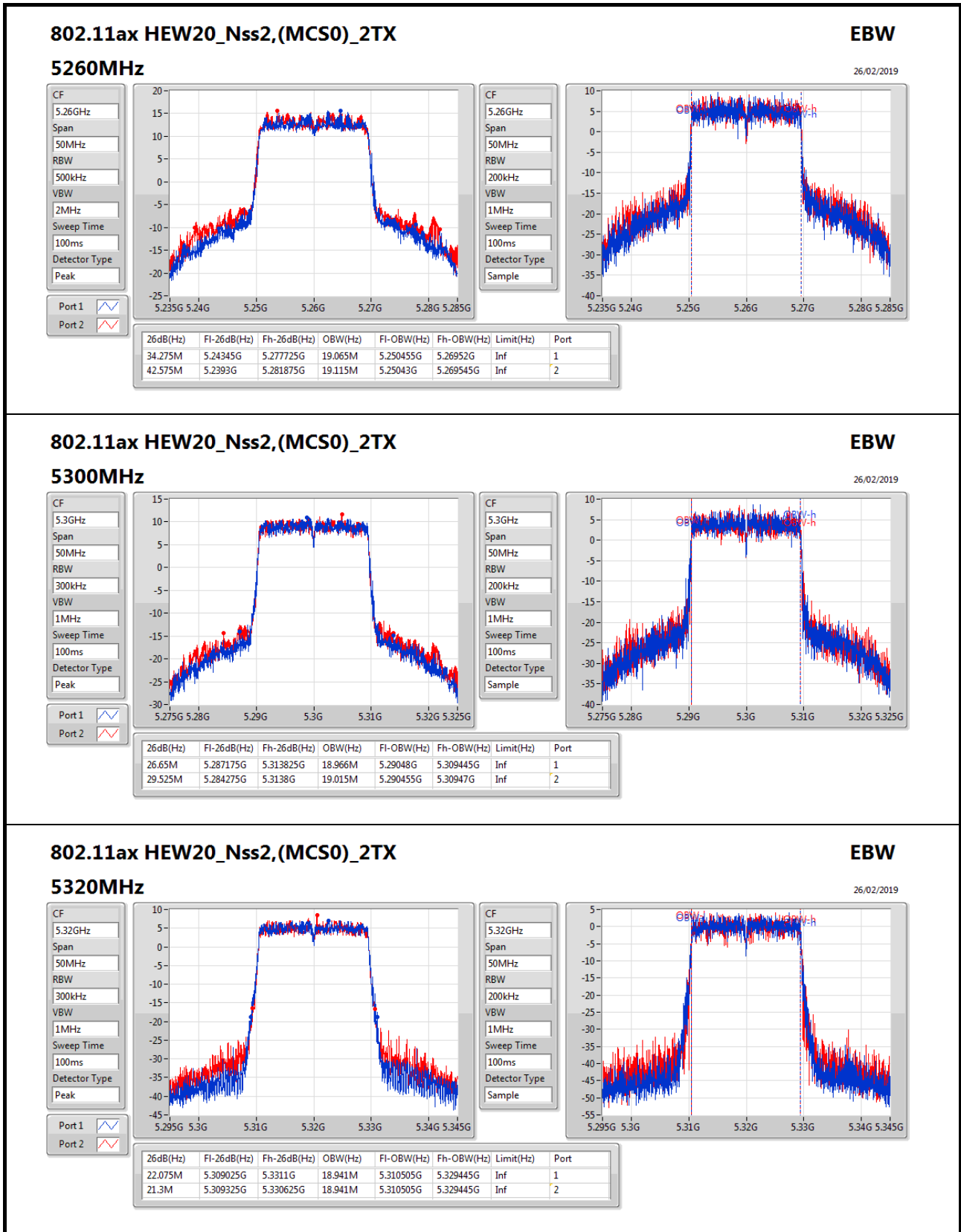
Appendix A.7

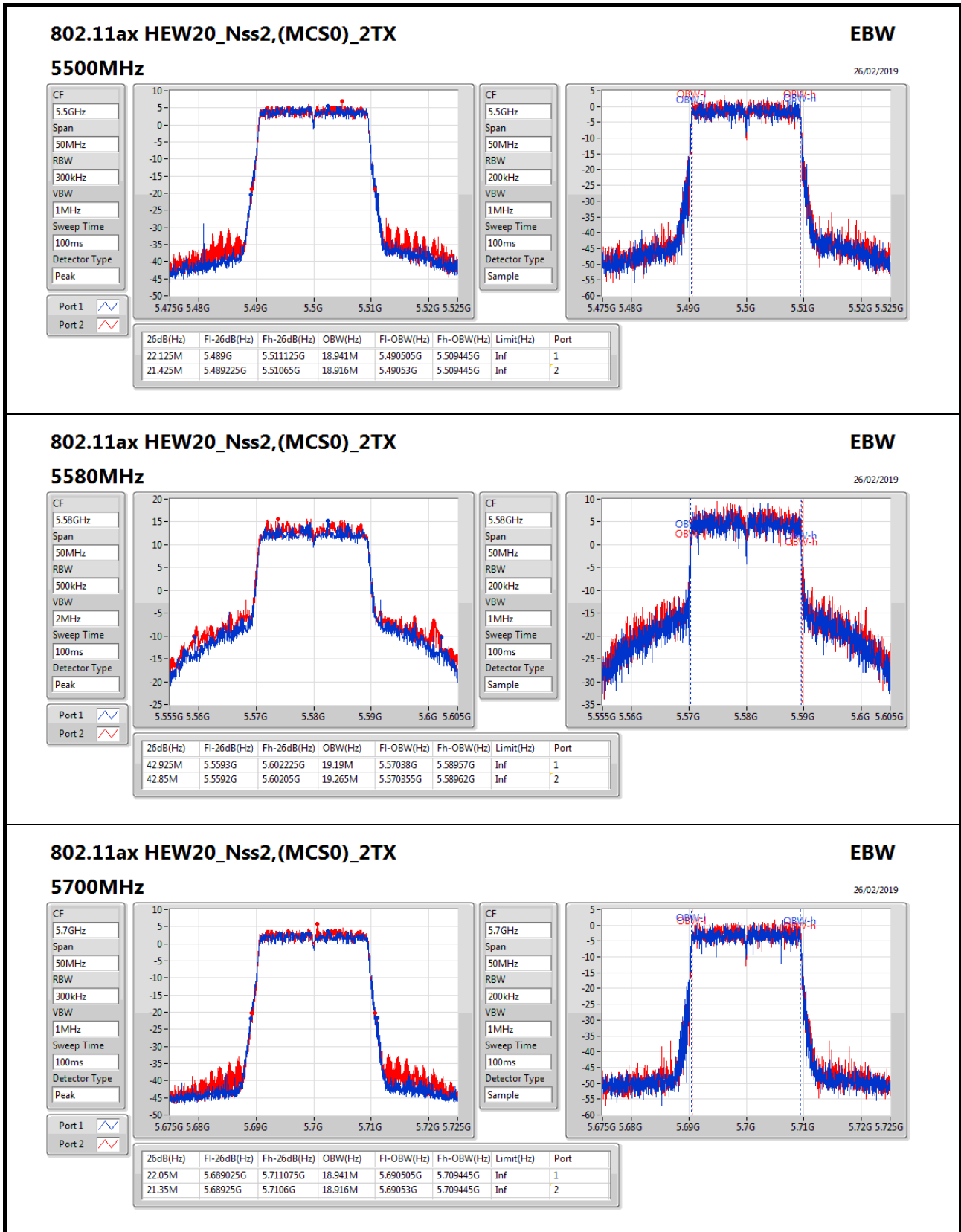
Result

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	-	-	-	-	-	-
5260MHz	Pass	Inf	34.275M	19.065M	42.575M	19.115M
5300MHz	Pass	Inf	26.65M	18.966M	29.525M	19.015M
5320MHz	Pass	Inf	22.075M	18.941M	21.3M	18.941M
5500MHz	Pass	Inf	22.125M	18.941M	21.425M	18.916M
5580MHz	Pass	Inf	42.925M	19.19M	42.85M	19.265M
5700MHz	Pass	Inf	22.05M	18.941M	21.35M	18.916M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	25.68M	14.708M	25.605M	14.753M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	4.42M	9.795M	4.44M	12.134M
802.11ax HEW40_Nss2,(MCS0)_2TX	-	-	-	-	-	-
5270MHz	Pass	Inf	40.1M	37.581M	40.1M	37.631M
5310MHz	Pass	Inf	40M	37.431M	39.85M	37.581M
5510MHz	Pass	Inf	39.95M	37.631M	40M	37.431M
5550MHz	Pass	Inf	40.3M	37.581M	40.05M	37.481M
5670MHz	Pass	Inf	39.95M	37.581M	39.95M	37.531M
5710MHz Straddle 5.47-5.725GHz	Pass	Inf	54.67M	33.898M	57.575M	34.563M
5710MHz Straddle 5.725-5.85GHz	Pass	500k	3.76M	23.788M	3.64M	24.728M
802.11ax HEW80_Nss2,(MCS0)_2TX	-	-	-	-	-	-
5290MHz	Pass	Inf	81.8M	77.061M	81.1M	76.862M
5530MHz	Pass	Inf	81.8M	77.061M	81.5M	77.061M
5610MHz	Pass	Inf	81.8M	77.061M	82.9M	77.161M
5690MHz Straddle 5.47-5.725GHz	Pass	Inf	97.125M	73.238M	94.875M	73.313M
5690MHz Straddle 5.725-5.85GHz	Pass	500k	3.8M	30.025M	3.76M	28.406M
802.11ax HEW160_Nss2,(MCS0)_2TX	-	-	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	Inf	81.12M	77.161M	81.92M	77.401M
5250MHz Straddle 5.25-5.35GHz	Pass	Inf	81.28M	77.081M	80.56M	77.241M
5570MHz	Pass	Inf	164.6M	154.923M	164.6M	154.923M

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;

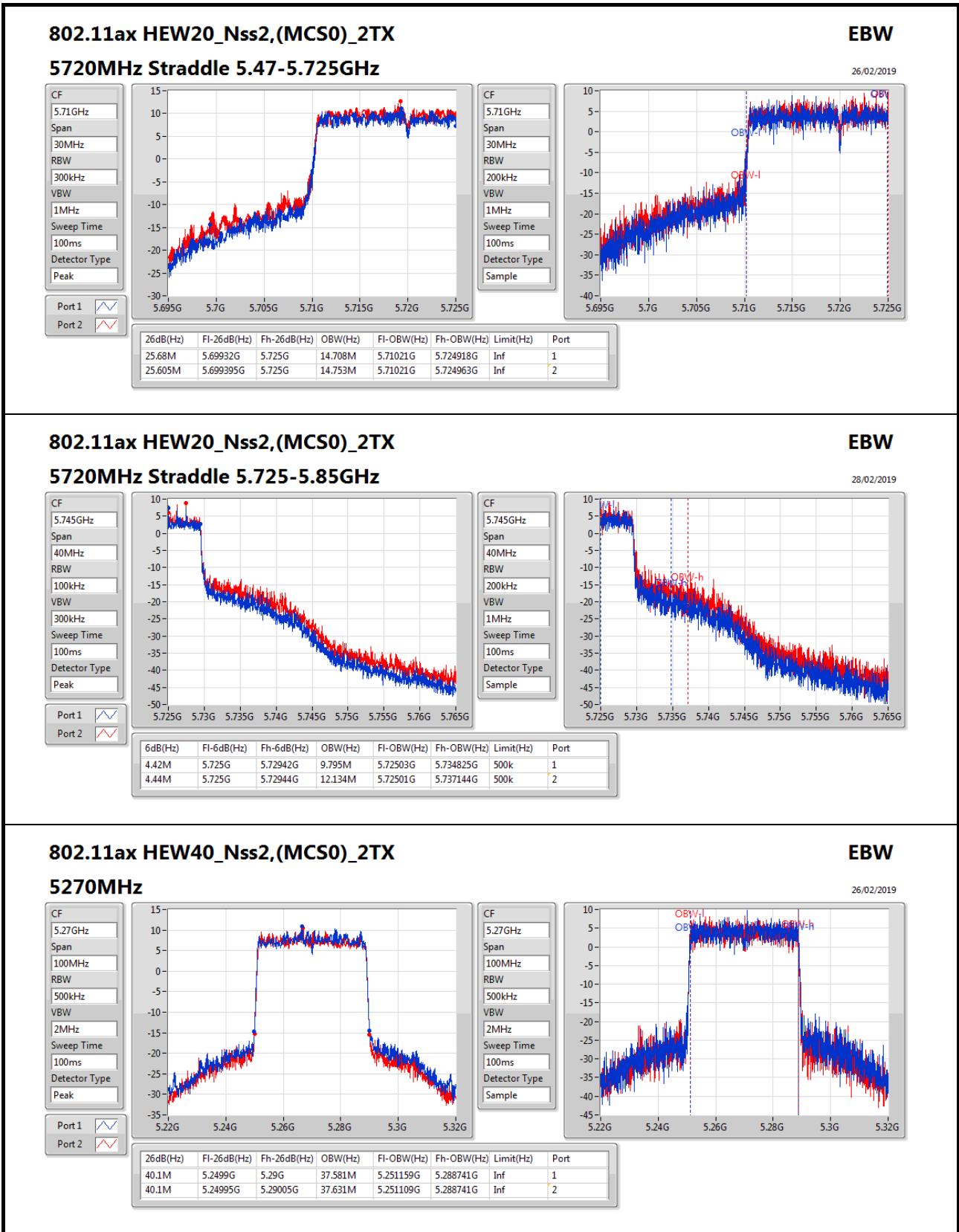


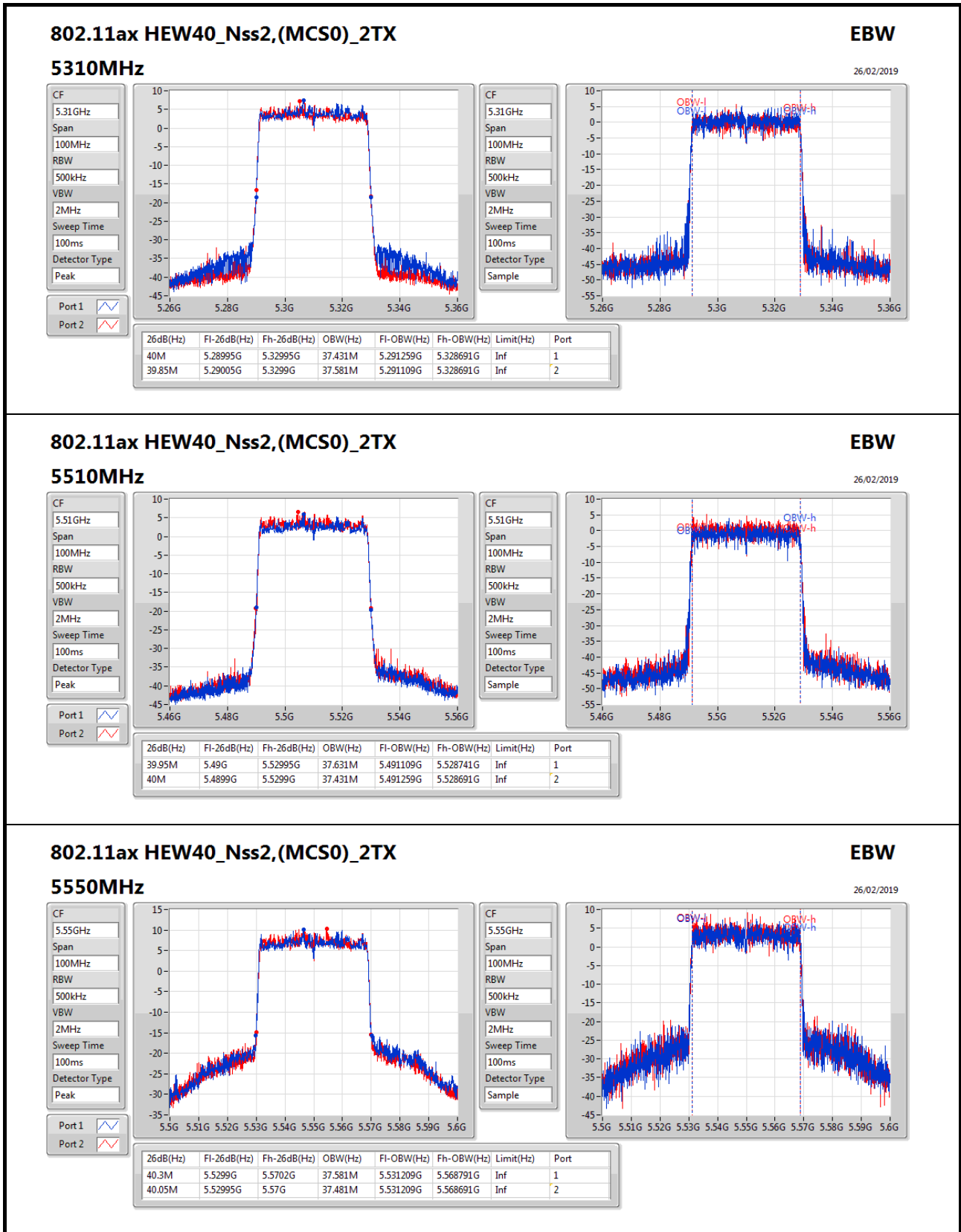

802.11ax HEW20_Nss2,(MCS0)_2TX
EBW

CF: 5.7GHz
Span: 50MHz
RBW: 300kHz
VBW: 1MHz
Sweep Time: 100ms
Detector Type: Peak

Port 1:

Port 2:

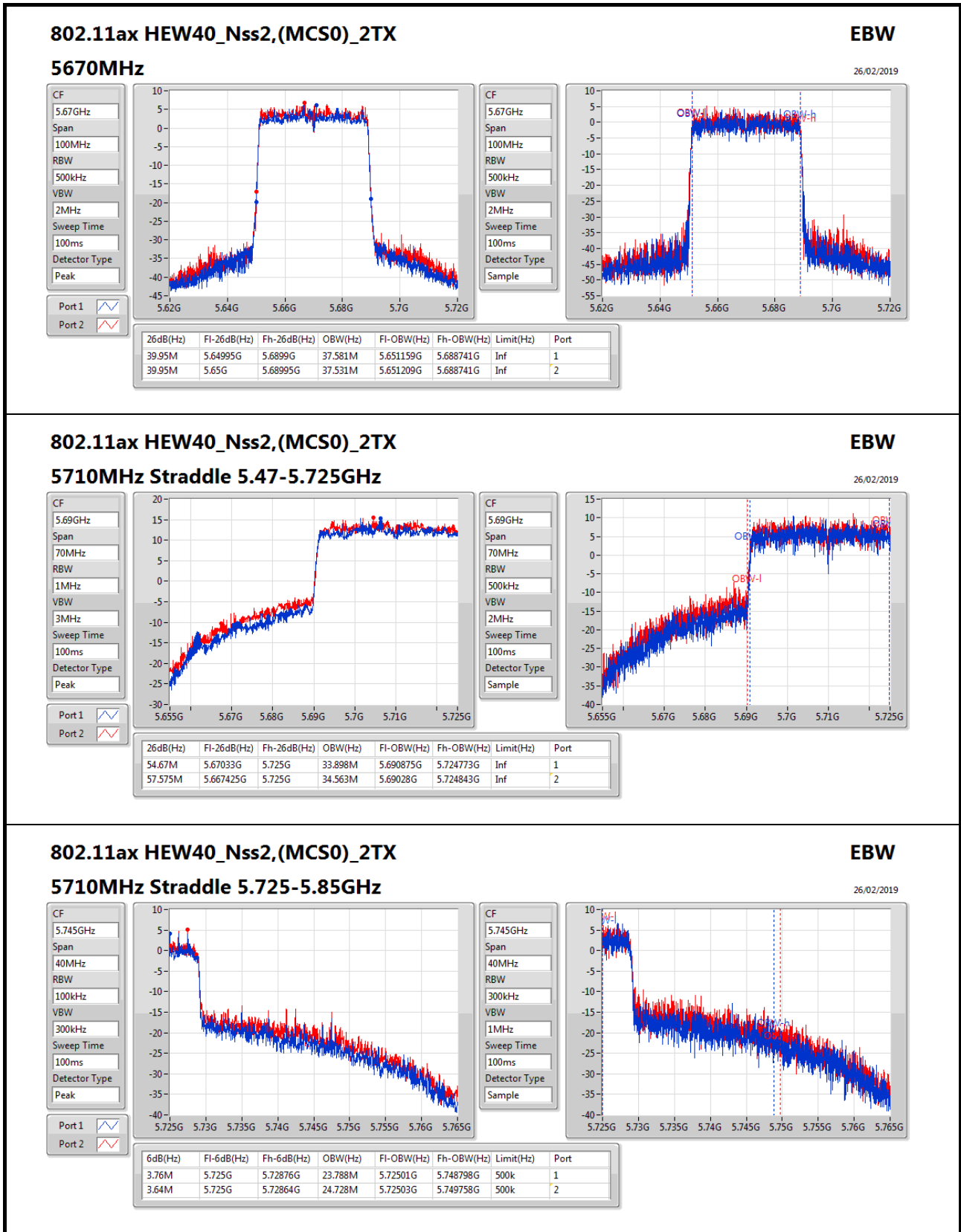



802.11ax HEW40_Nss2,(MCS0)_2TX
EBW

CF: 5.55GHz
Span: 100MHz
RBW: 500kHz
VBW: 2MHz
Sweep Time: 100ms
Detector Type: Peak

Port 1:

Port 2:



802.11ax HEW40_Nss2,(MCS0)_2TX

5710MHz Straddle 5.725-5.85GHz

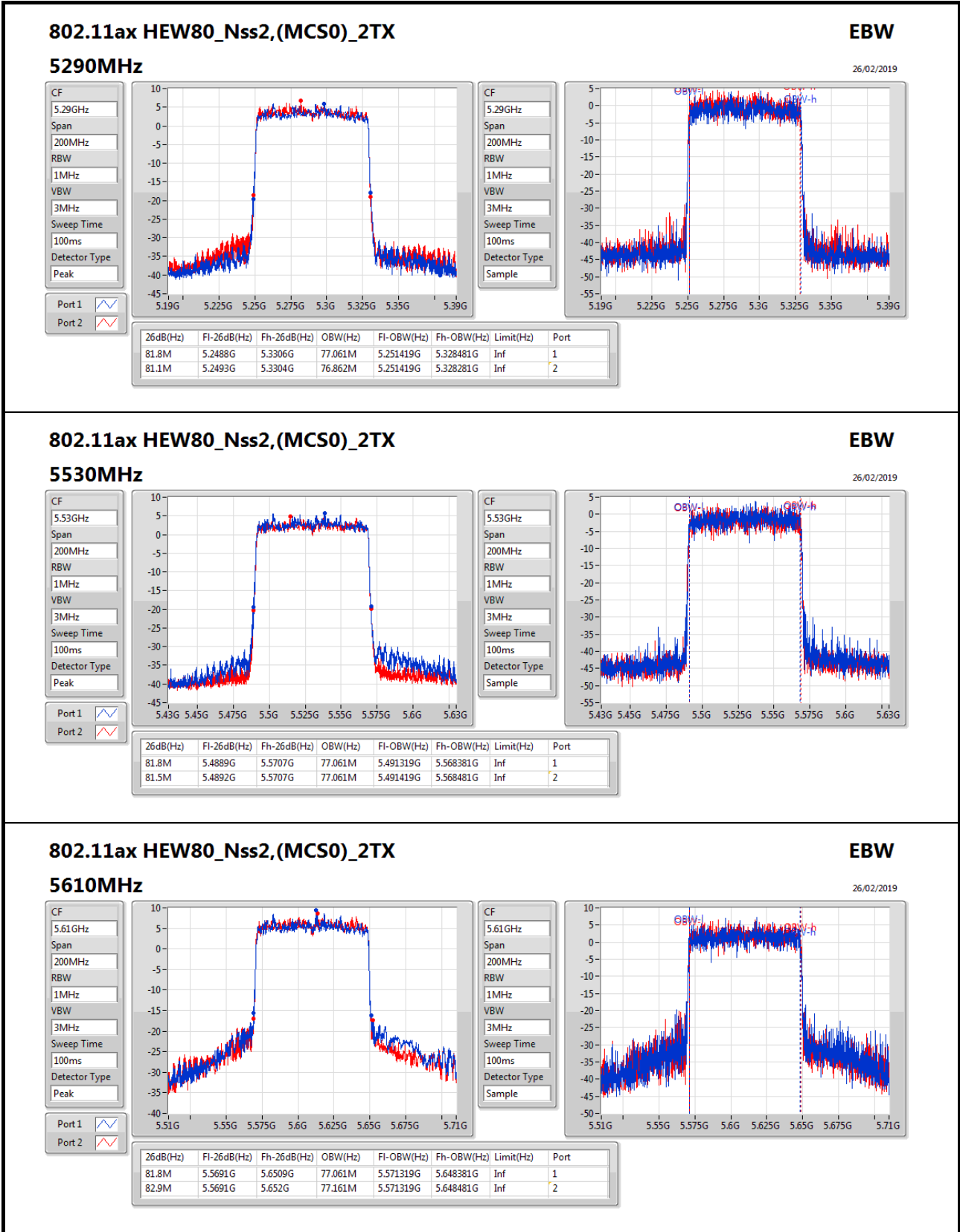
EBW
26/02/2019

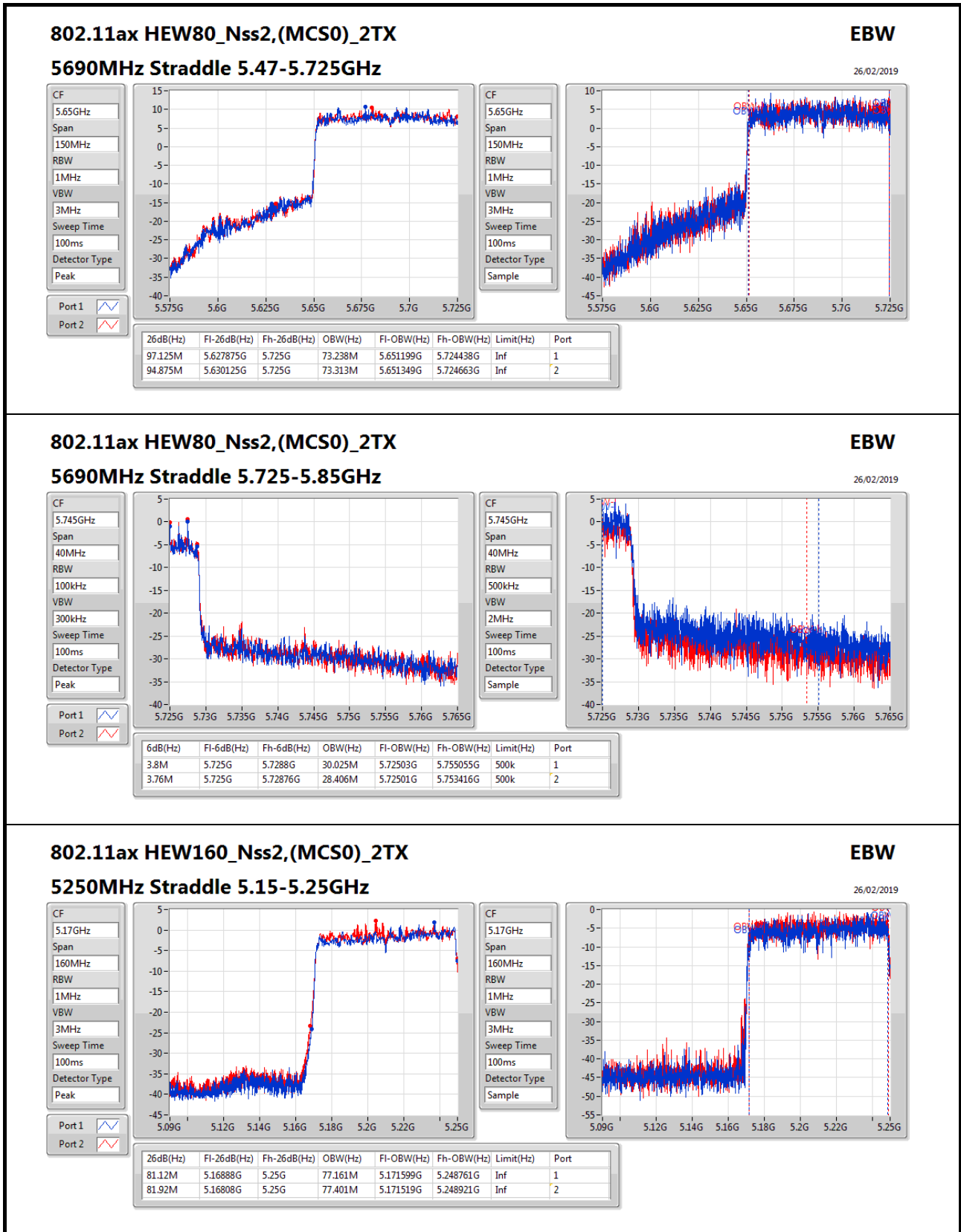
CF: 5.745GHz
Span: 40MHz
RBW: 100kHz
VBW: 300kHz
Sweep Time: 100ms
Detector Type: Peak

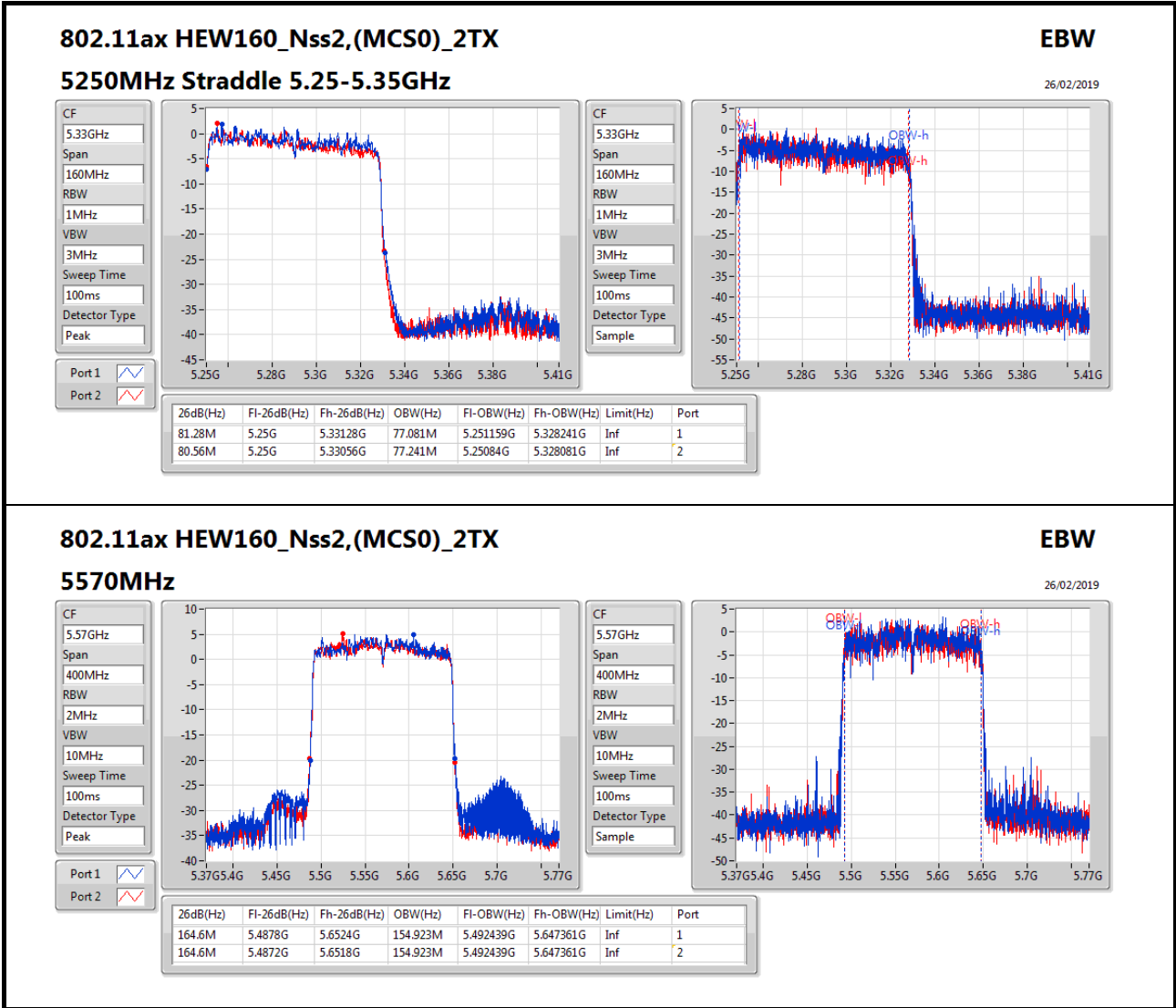
Port 1:

Port 2:

CF: 5.745GHz
Span: 40MHz
RBW: 300kHz
VBW: 1MHz
Sweep Time: 100ms
Detector Type: Sample









EBW Result_Radio 1

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	-	-	-	-	-
802.11ax HEW160_Nss1,(MCS0)_4TX	80.96M	77.241M	77M2D1D	80.64M	77.081M
5.25-5.35GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	21.675M	16.592M	16M6D1D	21.475M	16.517M
802.11ax HEW20_Nss1,(MCS0)_4TX	21.95M	18.991M	19M0D1D	21.425M	18.941M
802.11ax HEW40_Nss1,(MCS0)_4TX	40.25M	37.581M	37M6D1D	40M	37.431M
802.11ax HEW80_Nss1,(MCS0)_4TX	81.4M	77.161M	77M2D1D	81.2M	76.962M
802.11ax HEW160_Nss1,(MCS0)_4TX	81.36M	77.161M	77M2D1D	80.72M	77.081M
5.47-5.725GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	21.7M	16.592M	16M6D1D	15.63M	13.283M
802.11ax HEW20_Nss1,(MCS0)_4TX	21.95M	18.991M	19M0D1D	15.75M	14.483M
802.11ax HEW40_Nss1,(MCS0)_4TX	40.2M	37.581M	37M6D1D	35M	33.618M
802.11ax HEW80_Nss1,(MCS0)_4TX	82.5M	77.161M	77M2D1D	75.525M	73.238M
802.11ax HEW160_Nss1,(MCS0)_4TX	164.8M	155.522M	156MD1D	164M	154.723M
5.725-5.85GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	3.22M	3.998M	4M00D1D	3.12M	3.838M
802.11ax HEW20_Nss1,(MCS0)_4TX	4.5M	4.538M	4M54D1D	4.48M	4.518M
802.11ax HEW40_Nss1,(MCS0)_4TX	3.98M	4.058M	4M06D1D	3.7M	4.058M
802.11ax HEW80_Nss1,(MCS0)_4TX	3.8M	25.387M	25M4D1D	3.46M	20.77M

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

Max-OBW = Maximum 99% occupied bandwidth;

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

Min-OBW = Minimum 99% occupied bandwidth;



EBW Result_Radio 1

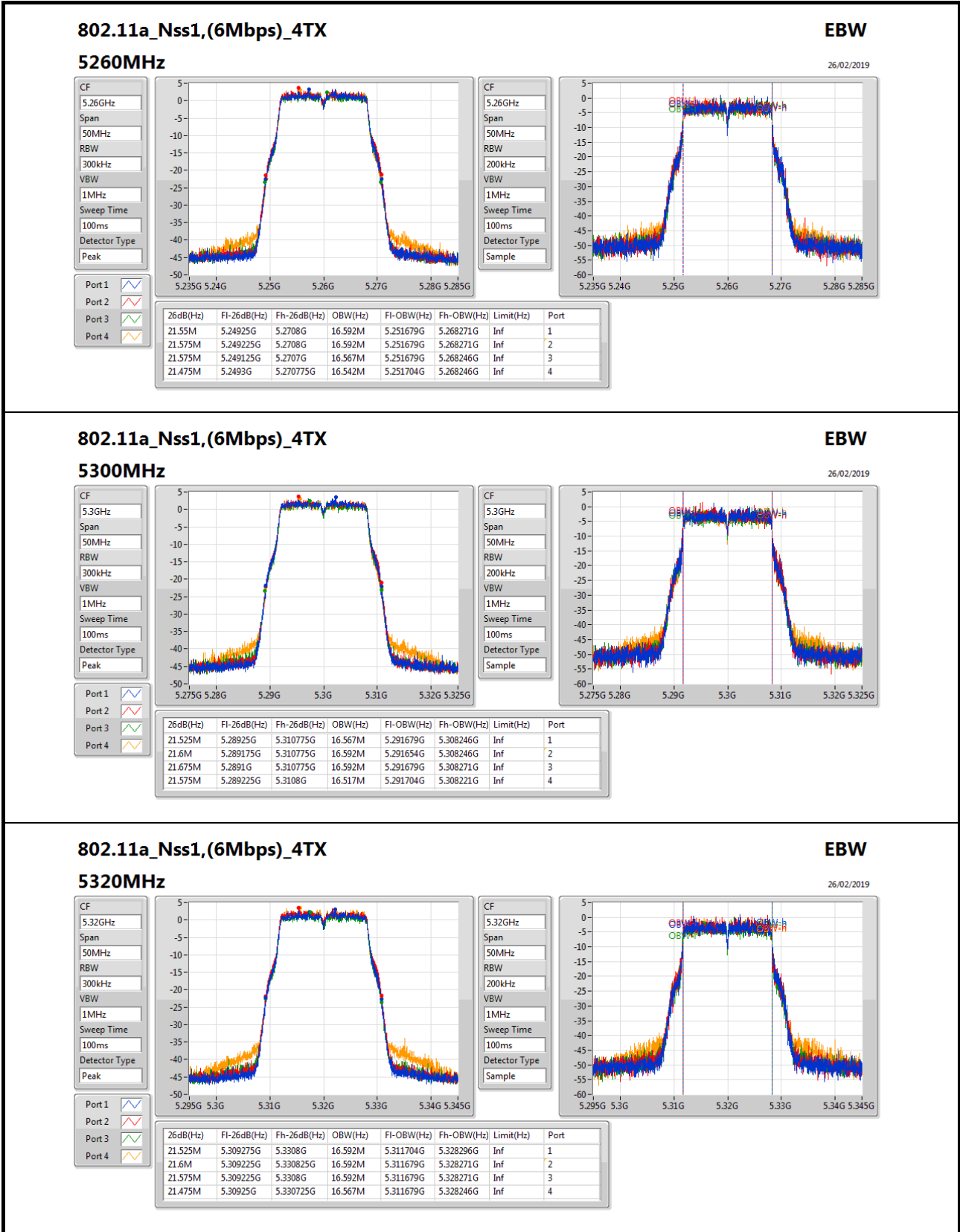
Appendix A.8

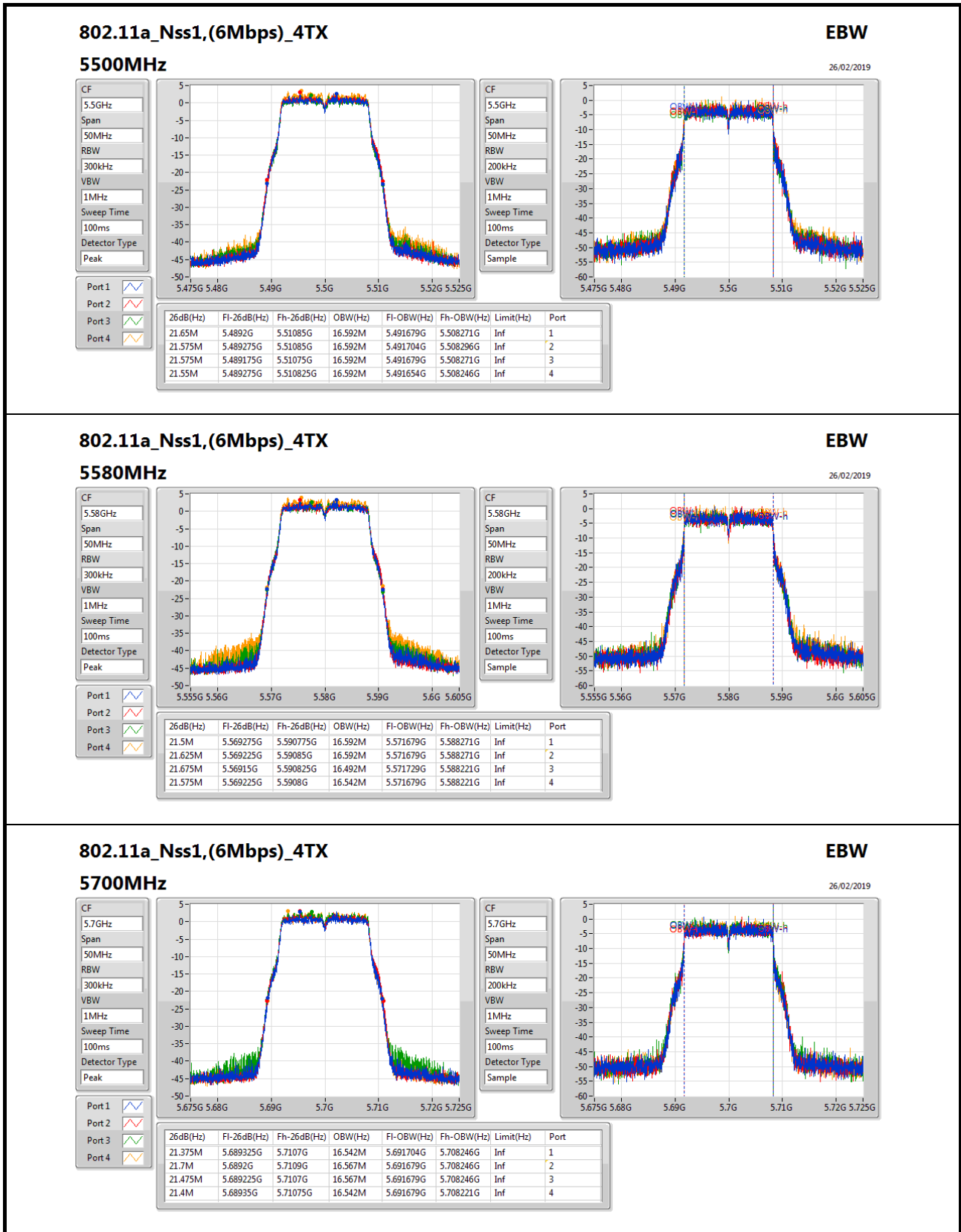
Result

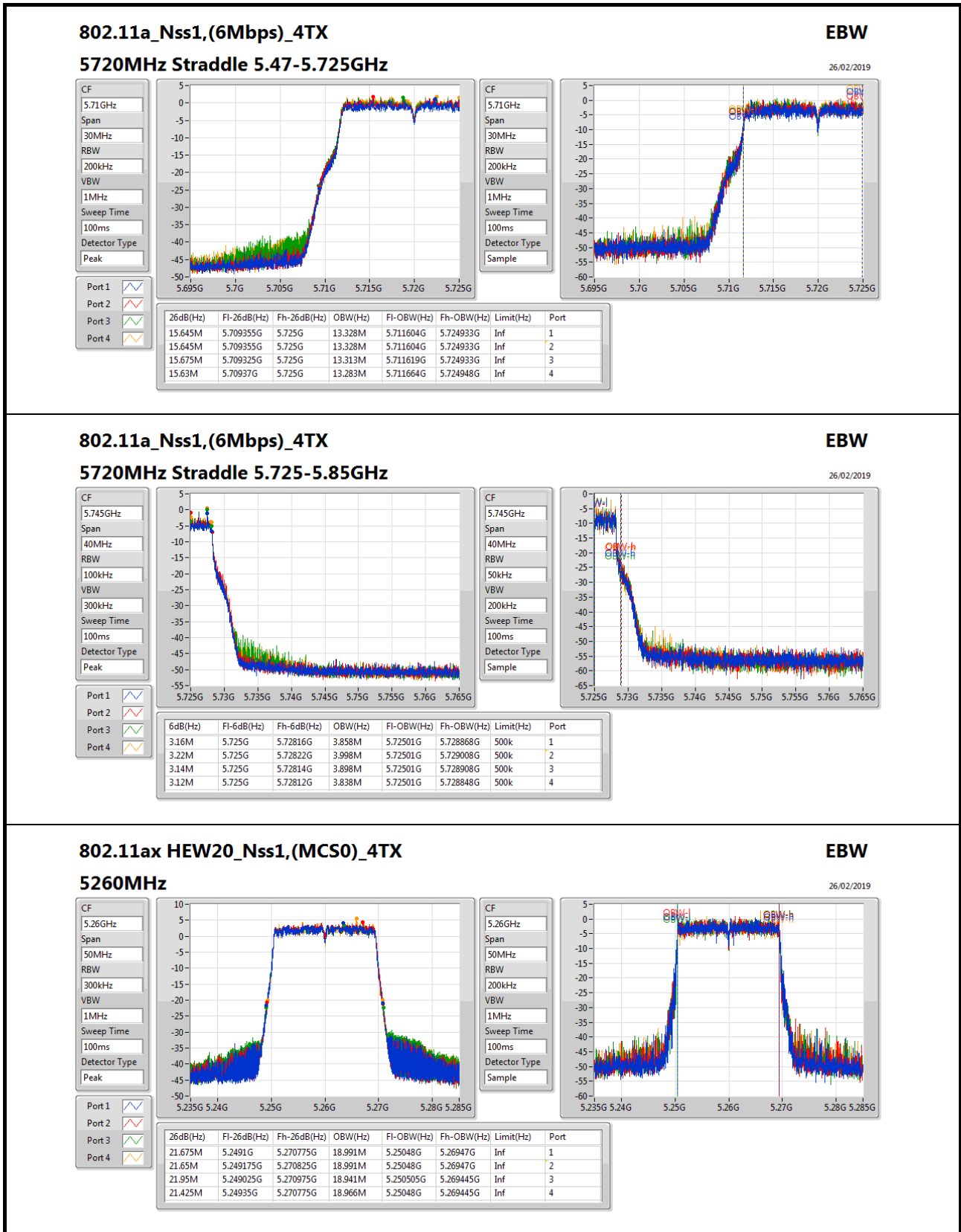
Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)	Port 3-N dB (Hz)	Port 3-OBW (Hz)	Port 4-N dB (Hz)	Port 4-OBW (Hz)
802.11a_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-	-	-
5260MHz	Pass	Inf	21.55M	16.592M	21.575M	16.592M	21.575M	16.567M	21.475M	16.542M
5300MHz	Pass	Inf	21.525M	16.567M	21.6M	16.592M	21.675M	16.592M	21.575M	16.517M
5320MHz	Pass	Inf	21.525M	16.592M	21.6M	16.592M	21.575M	16.592M	21.475M	16.567M
5500MHz	Pass	Inf	21.65M	16.592M	21.575M	16.592M	21.575M	16.592M	21.55M	16.592M
5580MHz	Pass	Inf	21.5M	16.592M	21.625M	16.592M	21.675M	16.492M	21.575M	16.542M
5700MHz	Pass	Inf	21.375M	16.542M	21.7M	16.567M	21.475M	16.567M	21.4M	16.542M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	15.645M	13.328M	15.645M	13.328M	15.675M	13.313M	15.63M	13.283M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	3.16M	3.858M	3.22M	3.998M	3.14M	3.898M	3.12M	3.838M
802.11ax HEW20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5260MHz	Pass	Inf	21.675M	18.991M	21.65M	18.991M	21.95M	18.941M	21.425M	18.966M
5300MHz	Pass	Inf	21.725M	18.991M	21.625M	18.991M	21.85M	18.966M	21.575M	18.991M
5320MHz	Pass	Inf	21.675M	18.966M	21.55M	18.966M	21.9M	18.941M	21.525M	18.991M
5500MHz	Pass	Inf	21.65M	18.966M	21.75M	18.941M	21.925M	18.966M	21.375M	18.966M
5580MHz	Pass	Inf	21.725M	18.941M	21.675M	18.941M	21.875M	18.966M	21.425M	18.941M
5700MHz	Pass	Inf	21.775M	18.941M	21.575M	18.991M	21.95M	18.966M	21.425M	18.966M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	15.765M	14.498M	15.75M	14.498M	15.87M	14.483M	15.78M	14.483M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	4.48M	4.518M	4.5M	4.518M	4.48M	4.518M	4.48M	4.538M
802.11ax HEW40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5270MHz	Pass	Inf	40M	37.531M	40.05M	37.581M	40.15M	37.531M	40.25M	37.431M
5310MHz	Pass	Inf	40.1M	37.531M	40.15M	37.531M	40.1M	37.581M	40.1M	37.481M
5510MHz	Pass	Inf	40.05M	37.481M	40M	37.581M	40.15M	37.531M	40.05M	37.581M
5550MHz	Pass	Inf	40.1M	37.531M	40.1M	37.531M	40.2M	37.481M	40.15M	37.581M
5670MHz	Pass	Inf	39.95M	37.481M	40.15M	37.531M	40M	37.581M	40.1M	37.531M
5710MHz Straddle 5.47-5.725GHz	Pass	Inf	35M	33.618M	35.035M	33.688M	35.105M	33.653M	35.035M	33.688M
5710MHz Straddle 5.725-5.85GHz	Pass	500k	3.98M	4.058M	3.98M	4.058M	3.7M	4.058M	3.7M	4.058M
802.11ax HEW80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5290MHz	Pass	Inf	81.4M	76.962M	81.2M	76.962M	81.2M	77.161M	81.4M	77.161M
5530MHz	Pass	Inf	81.3M	77.161M	81.4M	77.061M	81M	76.962M	81.5M	77.061M
5610MHz	Pass	Inf	81.7M	77.161M	81.2M	76.962M	81.3M	77.061M	81.8M	76.862M
5690MHz Straddle 5.47-5.725GHz	Pass	Inf	75.675M	73.238M	75.525M	73.388M	82.5M	73.313M	75.825M	73.313M
5690MHz Straddle 5.725-5.85GHz	Pass	500k	3.48M	23.708M	3.8M	20.77M	3.46M	25.387M	3.74M	21.949M
802.11ax HEW160_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	Inf	80.96M	77.081M	80.72M	77.161M	80.64M	77.241M	80.64M	77.081M
5250MHz Straddle 5.25-5.35GHz	Pass	Inf	81.2M	77.081M	80.96M	77.081M	80.72M	77.161M	81.36M	77.081M
5570MHz	Pass	Inf	164.8M	155.522M	164.6M	155.322M	164.2M	154.723M	164M	154.923M

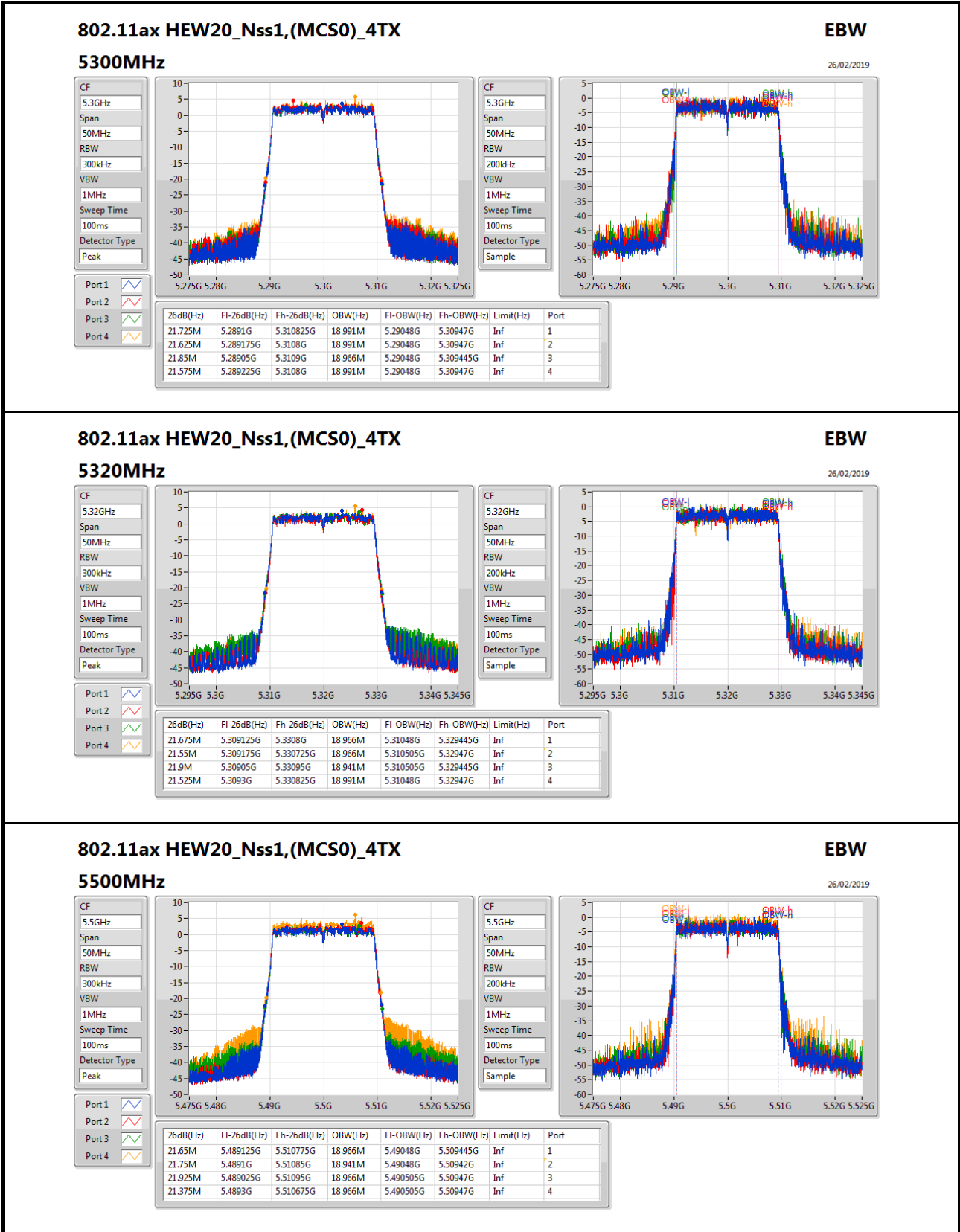
Port X-N dB = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band

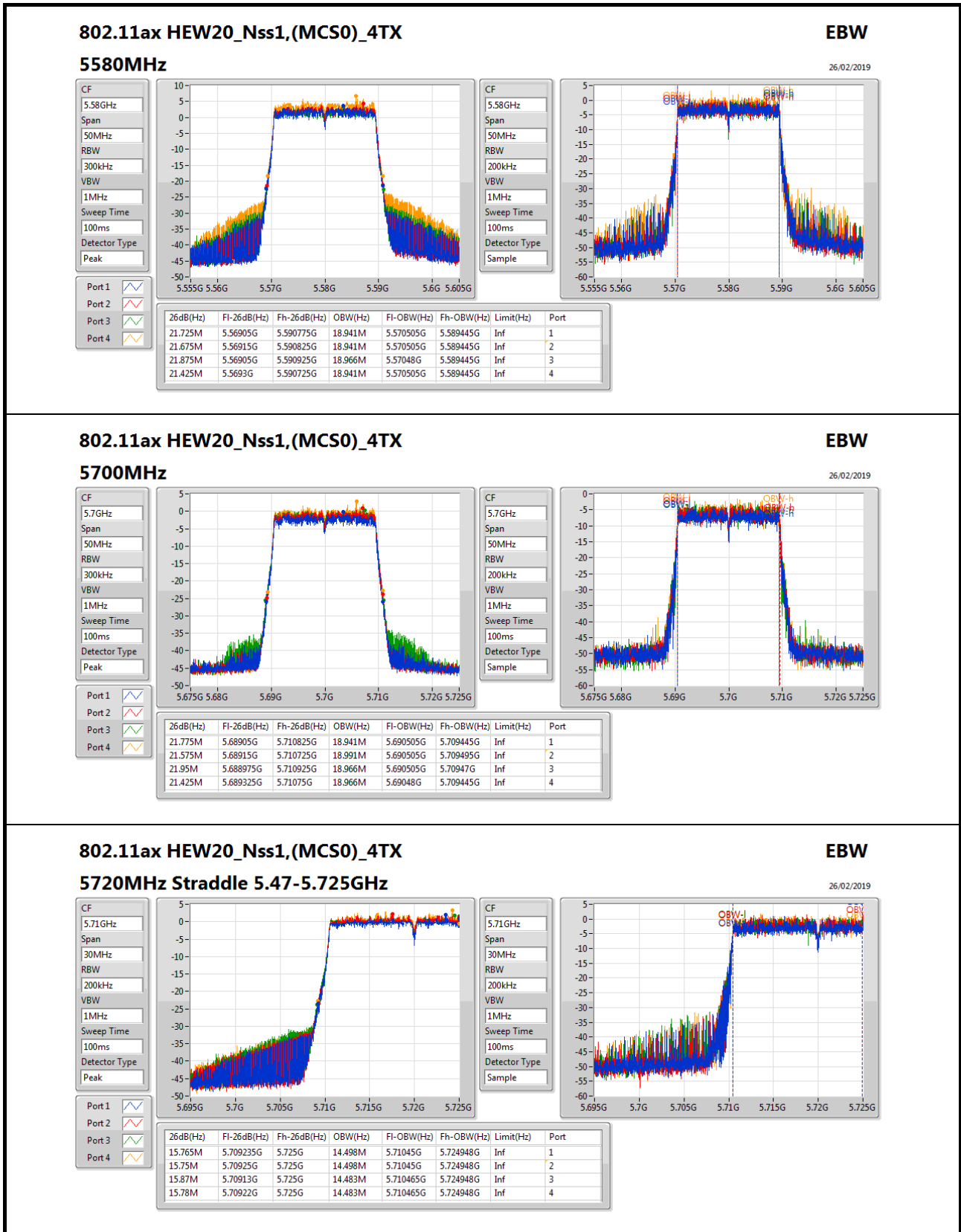
Port X-OBW = Port X 99% occupied bandwidth;

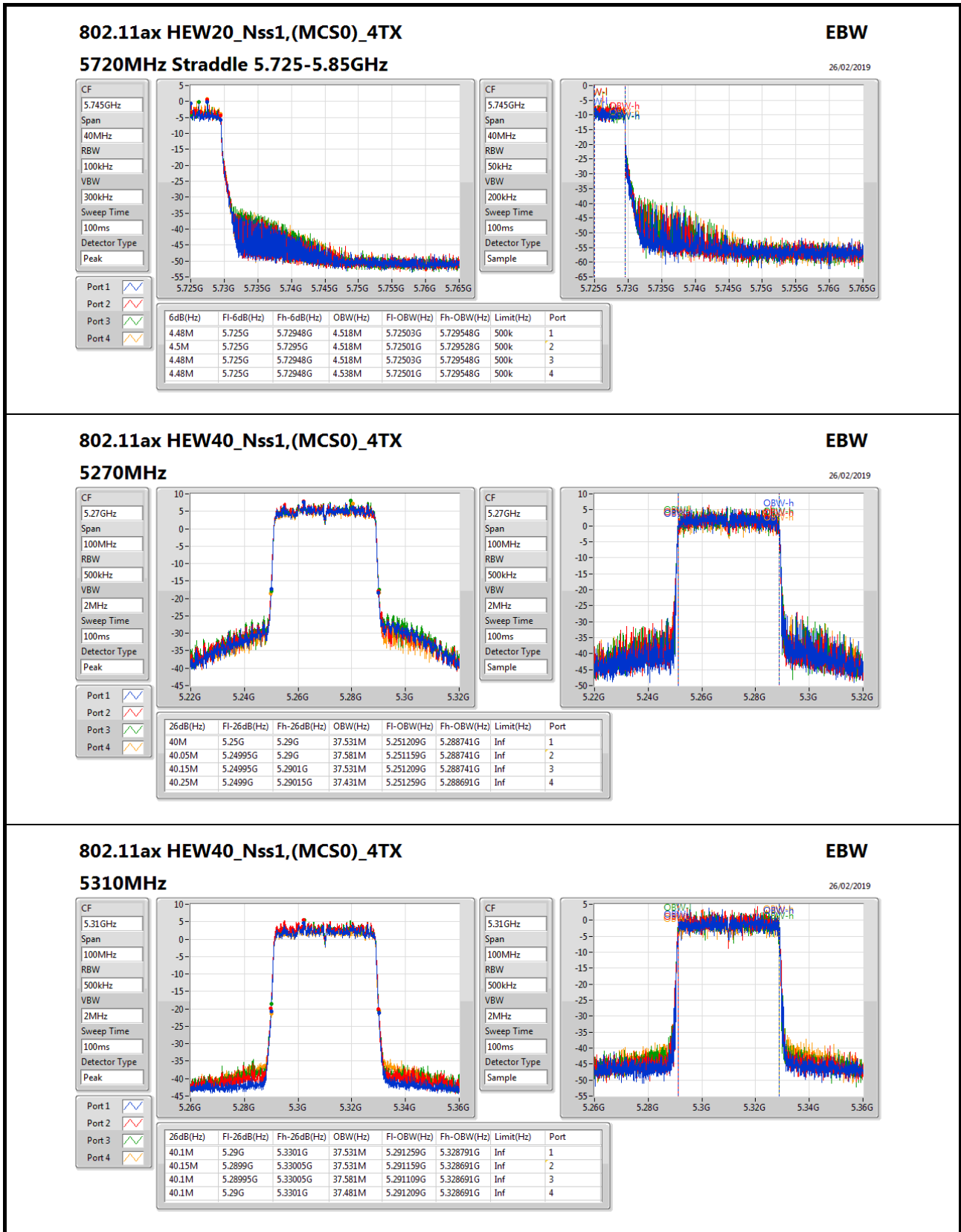


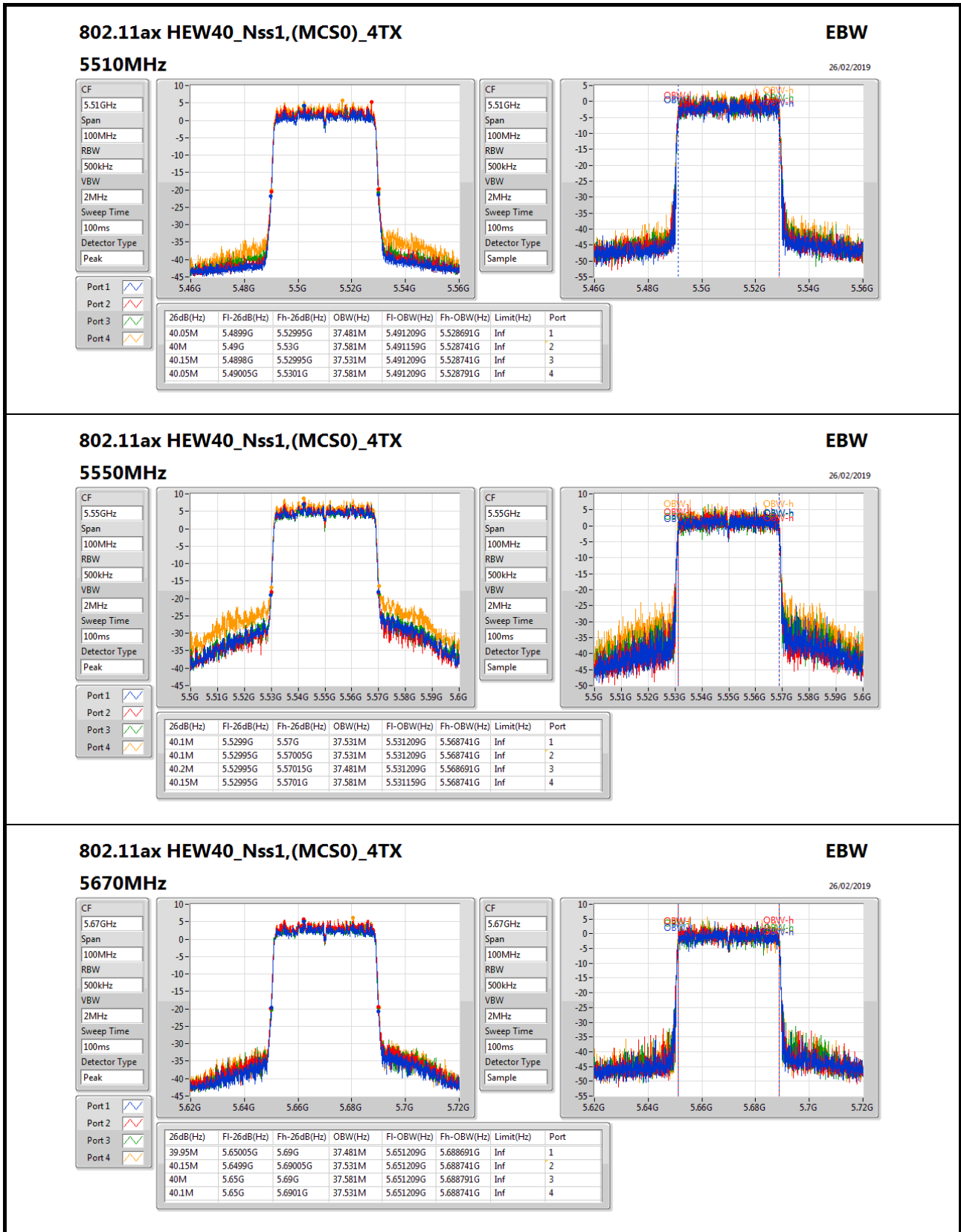


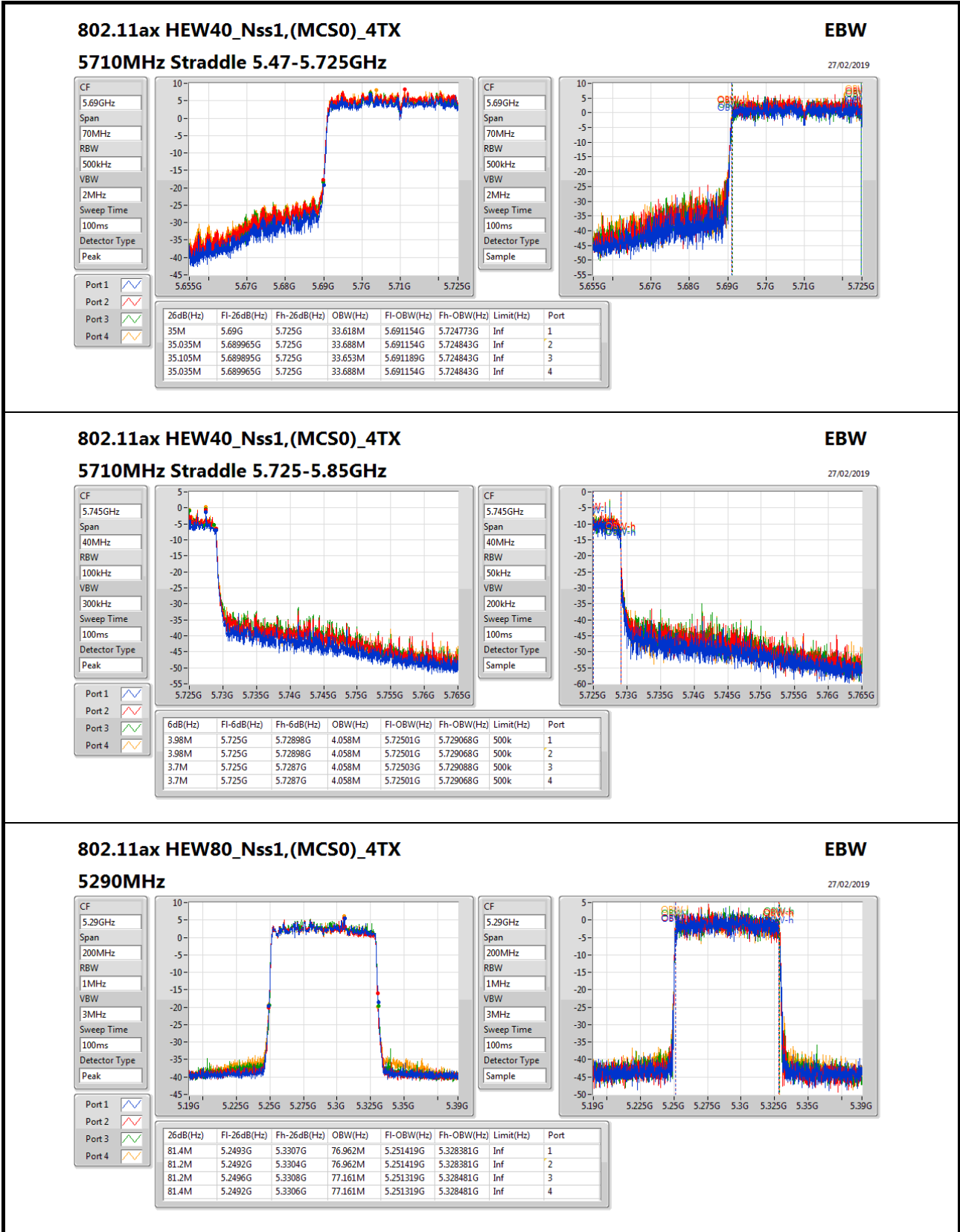


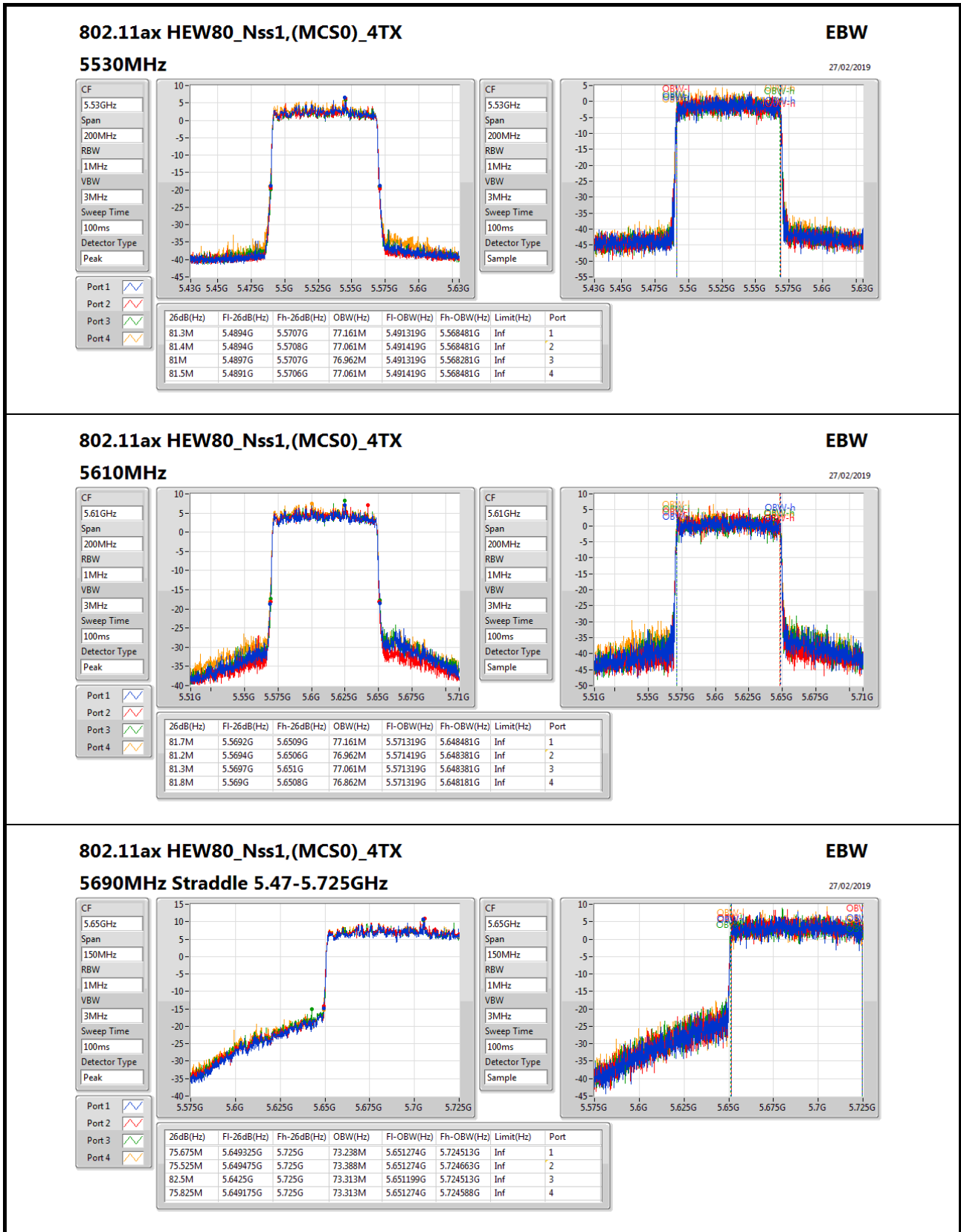


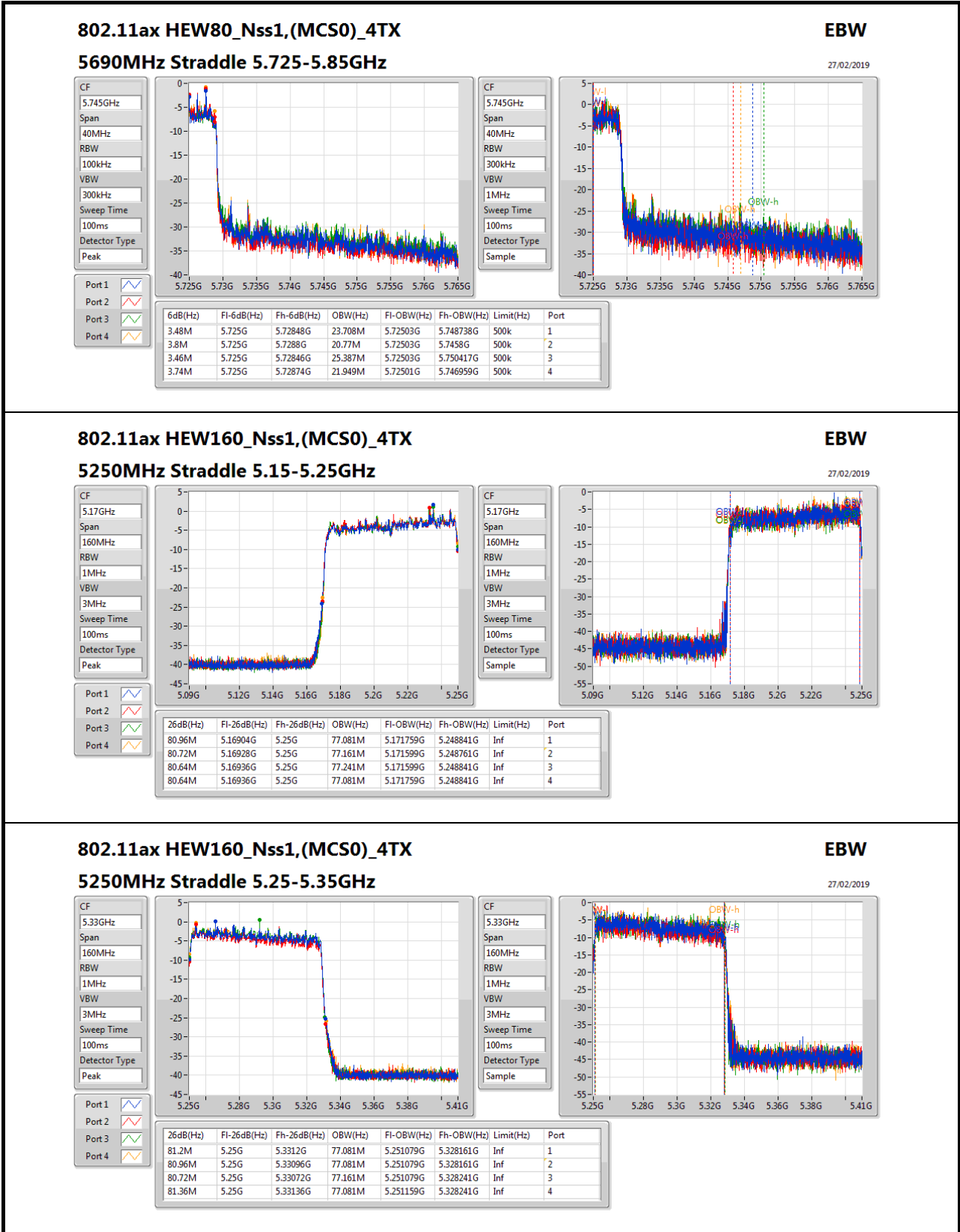


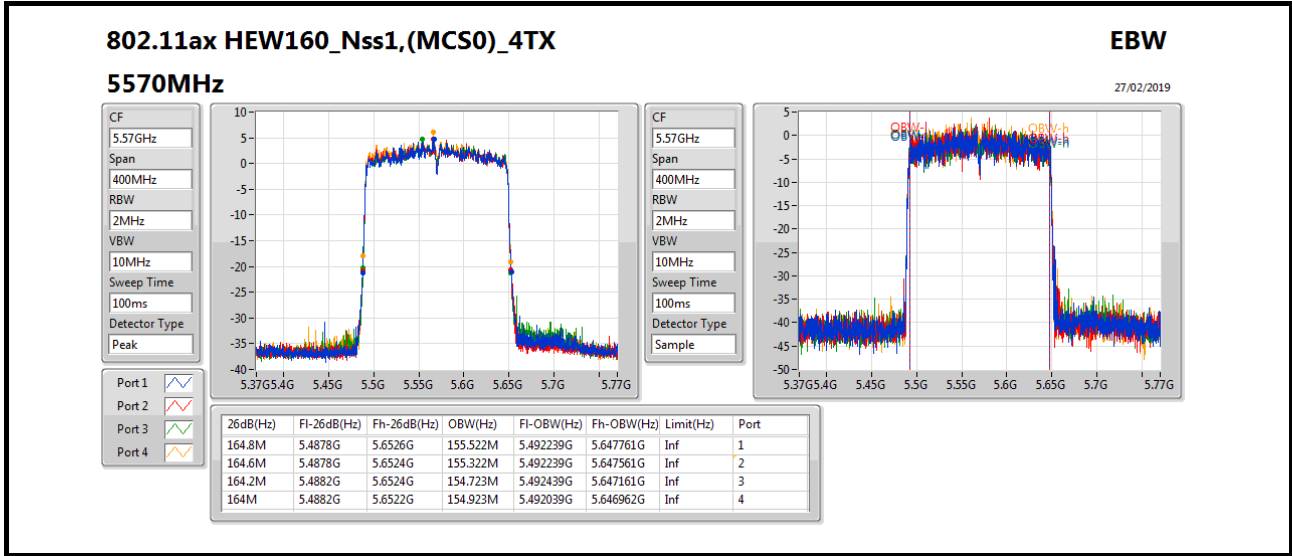














**For Beamforming / 4T1S mode
Summary**

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.15-5.25GHz	-	-	-	-	-
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	81.28M	77.241M	77M2D1D	80.56M	77.081M
5.25-5.35GHz	-	-	-	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	21.9M	19.015M	19M0D1D	21.425M	18.916M
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	40.15M	37.631M	37M6D1D	39.95M	37.531M
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	81.3M	77.261M	77M3D1D	81.2M	76.762M
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	81.44M	77.321M	77M3D1D	80.88M	77.001M
5.47-5.725GHz	-	-	-	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	21.9M	18.991M	19M0D1D	15.705M	14.468M
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	40.2M	37.631M	37M6D1D	34.93M	33.583M
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	81.7M	77.561M	77M6D1D	75.375M	73.163M
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	165.2M	155.322M	155MD1D	163.8M	155.122M
5.725-5.85GHz	-	-	-	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	4.52M	4.558M	4M56D1D	4.46M	4.518M
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	3.88M	4.058M	4M06D1D	3.7M	4.038M
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	3.78M	4.058M	4M06D1D	3.36M	4.038M

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

Max-OBW = Maximum 99% occupied bandwidth;

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

Min-OBW = Minimum 99% occupied bandwidth;



EBW Result_Radio 1

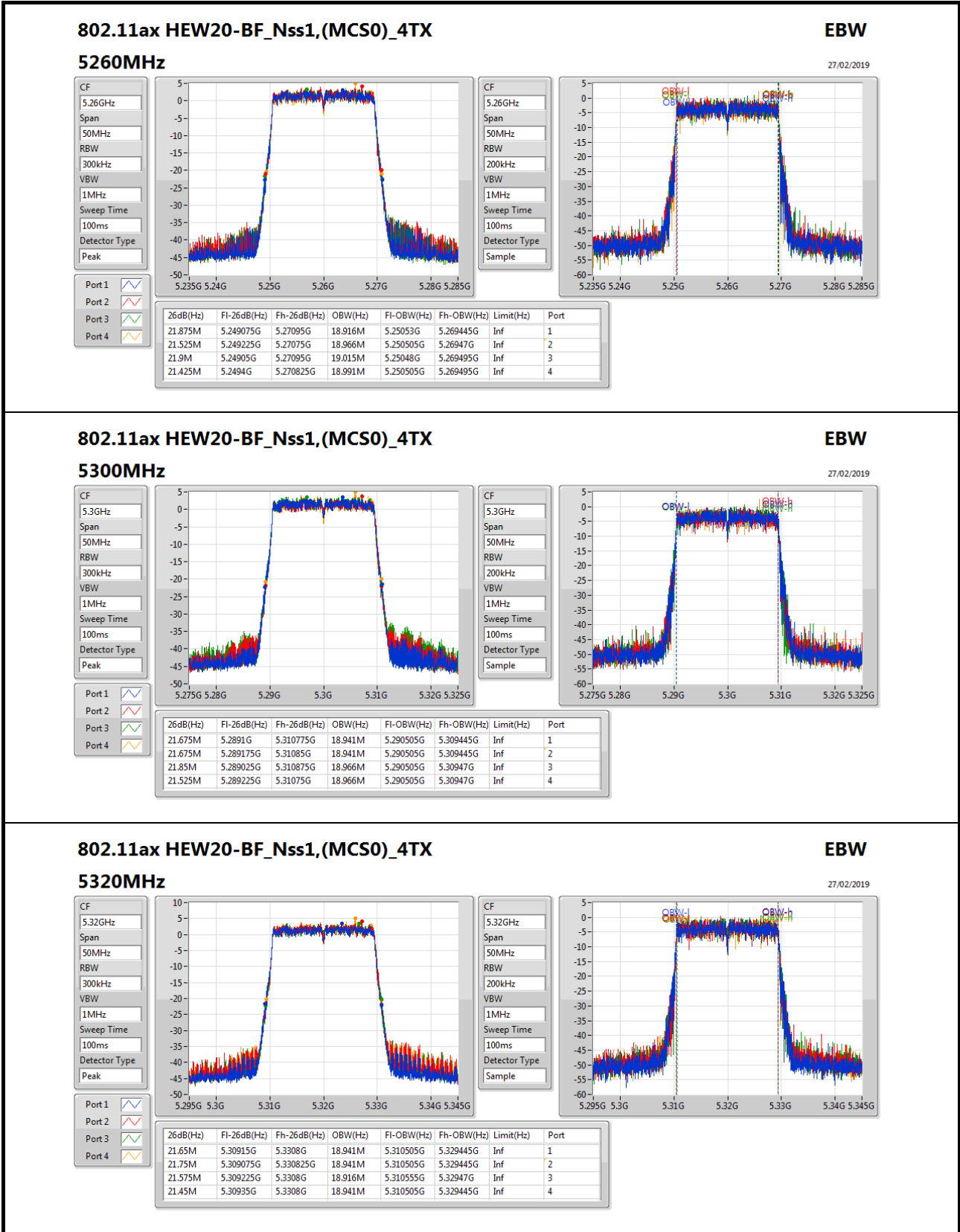
Appendix A.9

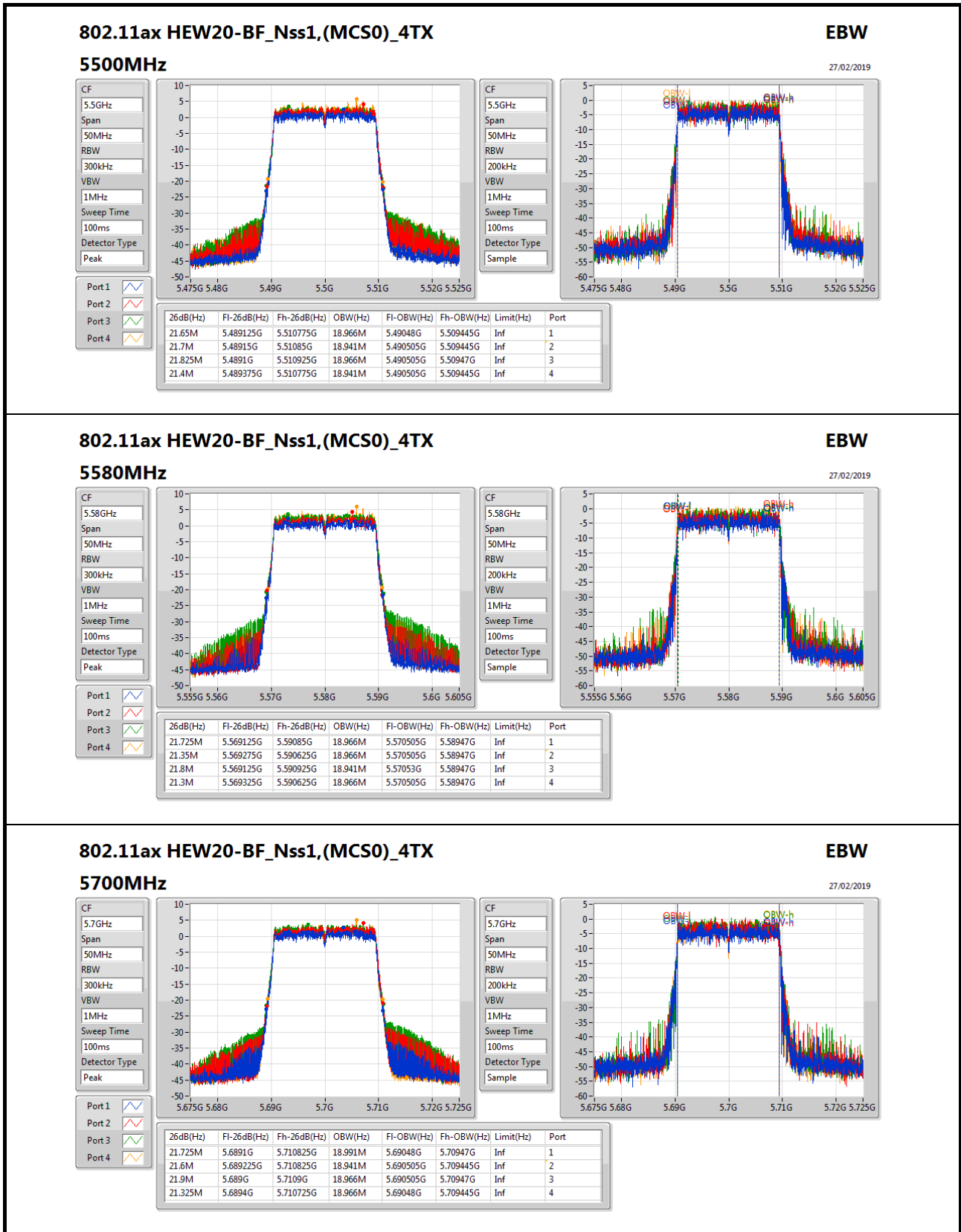
Result

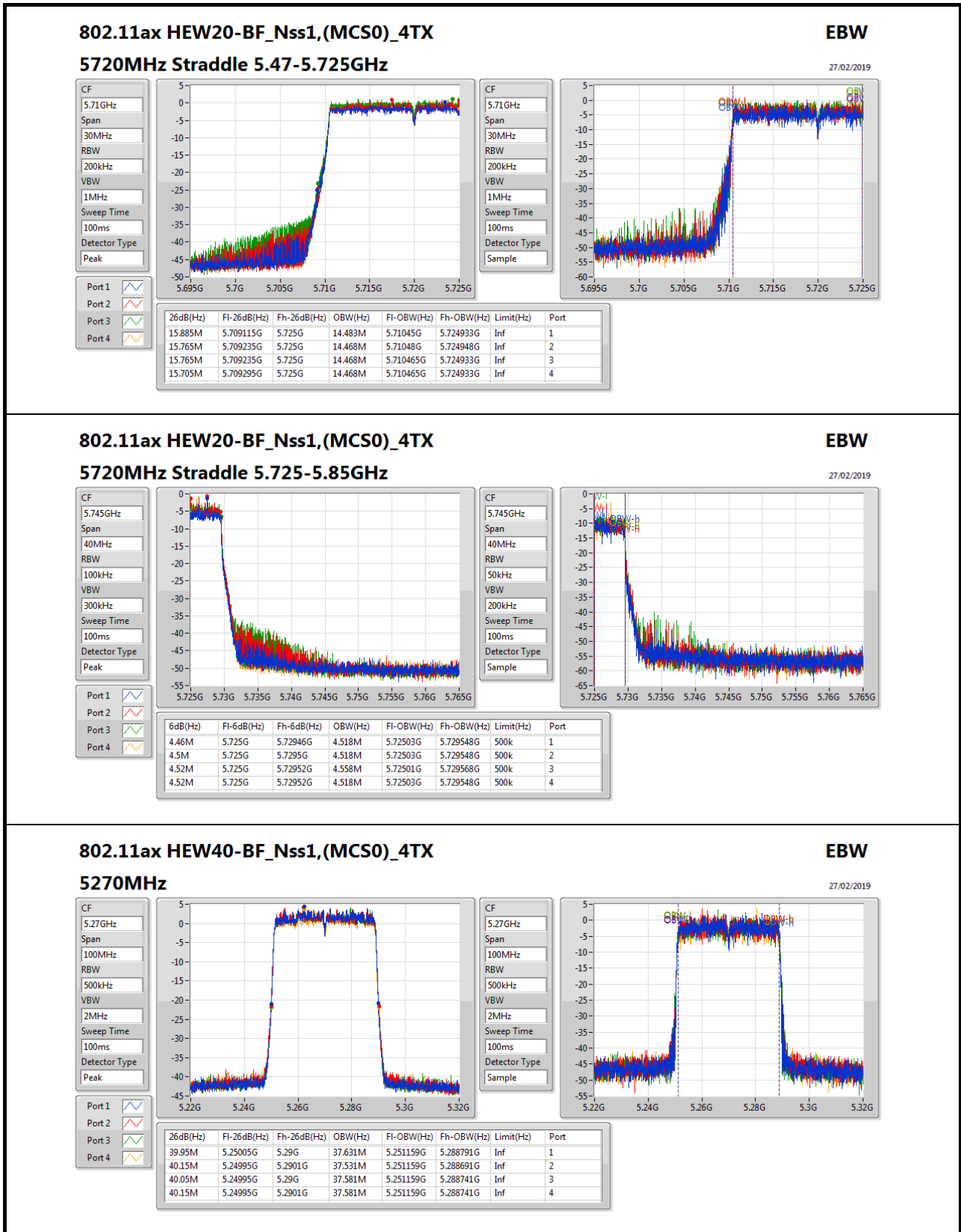
Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)	Port 3-N dB (Hz)	Port 3-OBW (Hz)	Port 4-N dB (Hz)	Port 4-OBW (Hz)
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5260MHz	Pass	Inf	21.875M	18.916M	21.525M	18.966M	21.9M	19.015M	21.425M	18.991M
5300MHz	Pass	Inf	21.675M	18.941M	21.675M	18.941M	21.85M	18.966M	21.525M	18.966M
5320MHz	Pass	Inf	21.65M	18.941M	21.75M	18.941M	21.575M	18.916M	21.45M	18.941M
5500MHz	Pass	Inf	21.65M	18.966M	21.7M	18.941M	21.825M	18.966M	21.4M	18.941M
5580MHz	Pass	Inf	21.725M	18.966M	21.35M	18.966M	21.8M	18.941M	21.3M	18.966M
5700MHz	Pass	Inf	21.725M	18.991M	21.6M	18.941M	21.9M	18.966M	21.325M	18.966M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	15.885M	14.483M	15.765M	14.468M	15.765M	14.468M	15.705M	14.468M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	4.46M	4.518M	4.5M	4.518M	4.52M	4.558M	4.52M	4.518M
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5270MHz	Pass	Inf	39.95M	37.631M	40.15M	37.531M	40.05M	37.581M	40.15M	37.581M
5310MHz	Pass	Inf	39.95M	37.531M	39.95M	37.531M	40.1M	37.581M	39.95M	37.531M
5510MHz	Pass	Inf	40.05M	37.481M	40M	37.531M	40.1M	37.581M	40.1M	37.531M
5550MHz	Pass	Inf	39.9M	37.531M	40.05M	37.631M	40.05M	37.581M	40.1M	37.481M
5670MHz	Pass	Inf	40.05M	37.531M	40.2M	37.581M	40.2M	37.581M	40.05M	37.631M
5710MHz Straddle 5.47-5.725GHz	Pass	Inf	34.93M	33.618M	35M	33.583M	35.035M	33.653M	35.07M	33.653M
5710MHz Straddle 5.725-5.85GHz	Pass	500k	3.8M	4.038M	3.72M	4.038M	3.7M	4.038M	3.88M	4.058M
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5290MHz	Pass	Inf	81.3M	77.261M	81.2M	76.962M	81.3M	76.862M	81.3M	76.762M
5530MHz	Pass	Inf	81.6M	76.962M	81.1M	76.762M	81.2M	76.962M	81.5M	76.662M
5610MHz	Pass	Inf	81.7M	77.161M	81.3M	77.561M	81.1M	77.161M	80.9M	77.061M
5690MHz Straddle 5.47-5.725GHz	Pass	Inf	75.75M	73.238M	75.45M	73.163M	75.375M	73.163M	75.75M	73.238M
5690MHz Straddle 5.725-5.85GHz	Pass	500k	3.78M	4.038M	3.5M	4.038M	3.78M	4.058M	3.36M	4.038M
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	Inf	81.28M	77.161M	80.88M	77.161M	80.8M	77.241M	80.56M	77.081M
5250MHz Straddle 5.25-5.35GHz	Pass	Inf	81.28M	77.321M	80.96M	77.161M	80.88M	77.081M	81.44M	77.001M
5570MHz	Pass	Inf	165.2M	155.322M	164.6M	155.122M	163.8M	155.122M	164.4M	155.122M

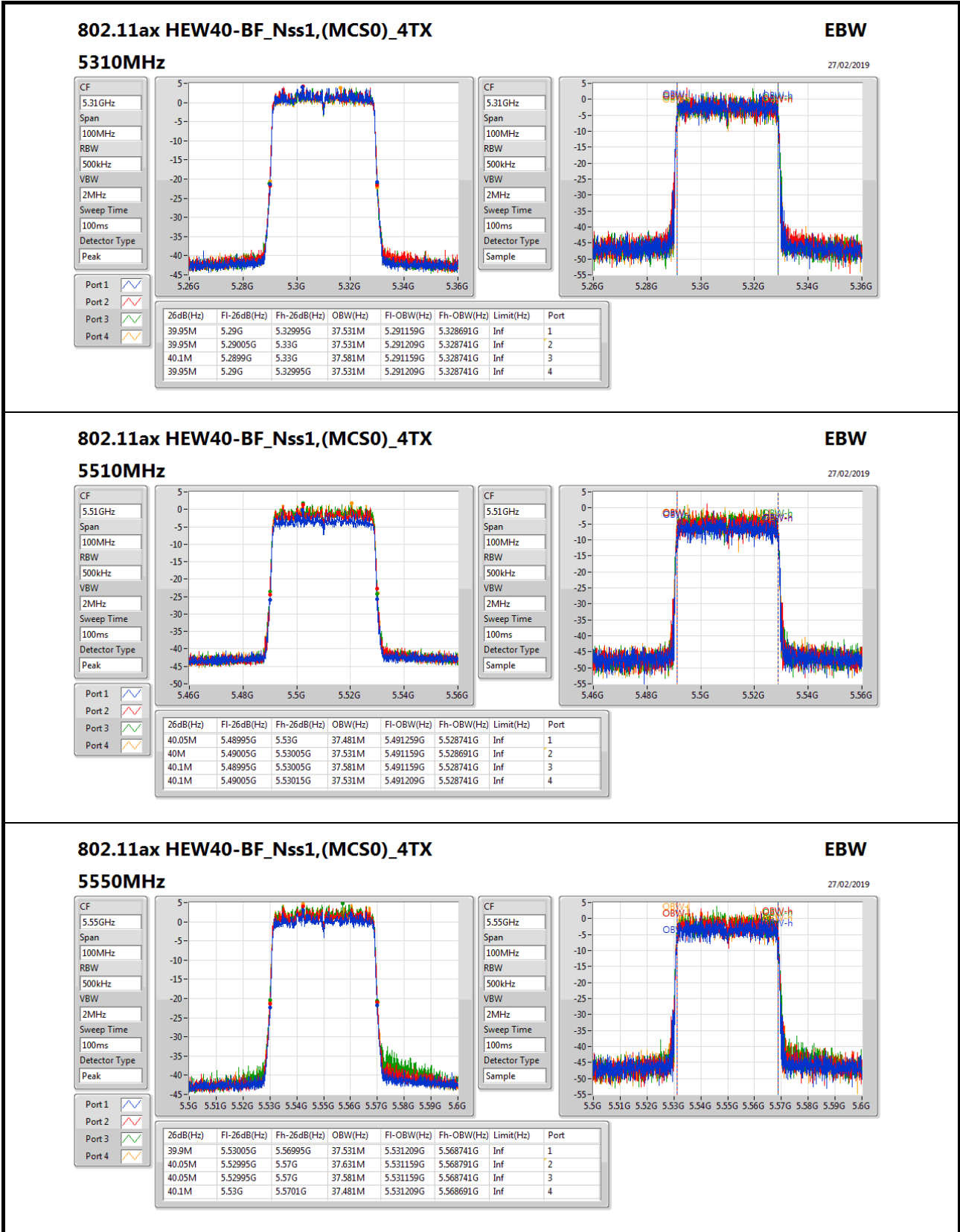
Port X-N dB = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band

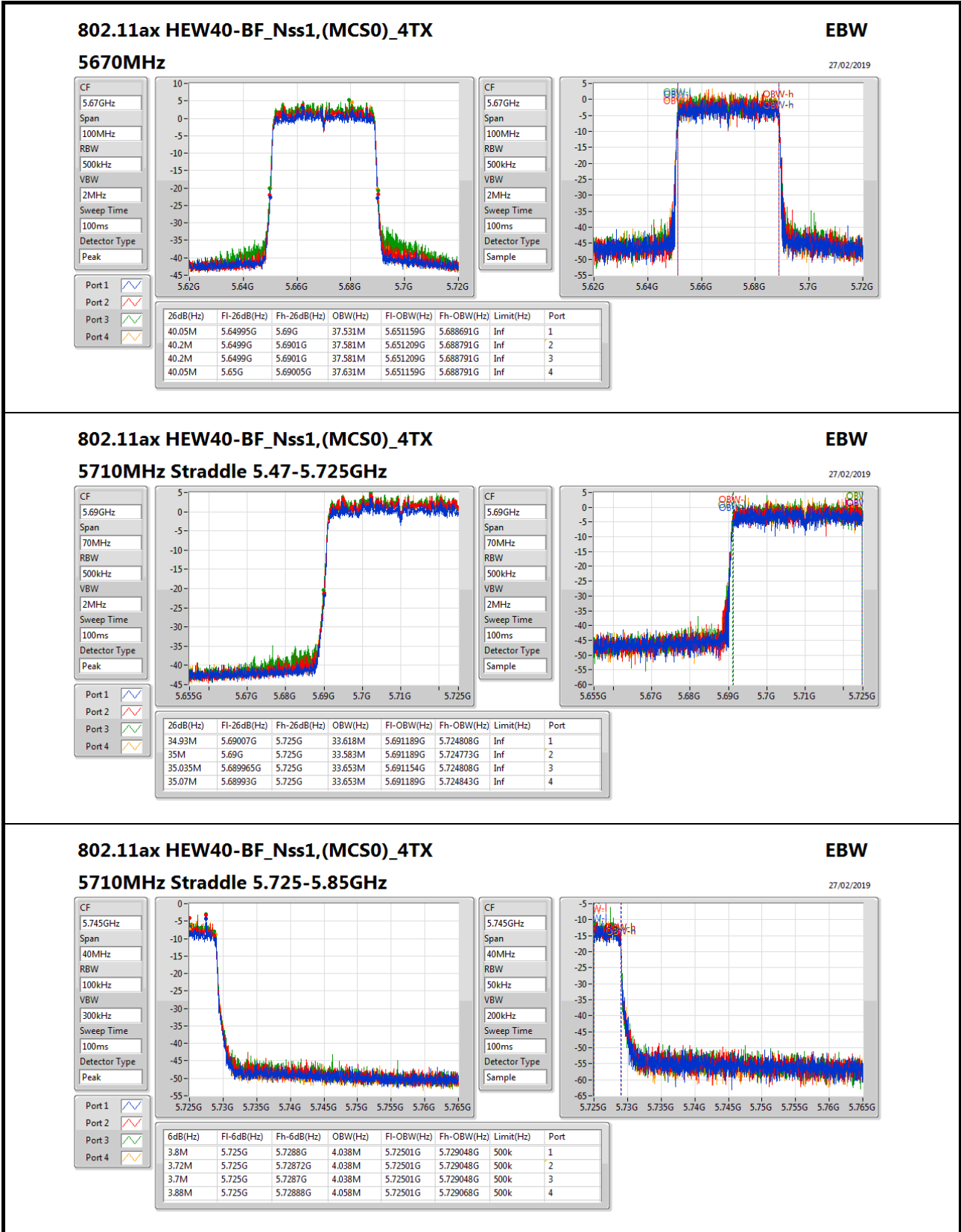
Port X-OBW = Port X 99% occupied bandwidth;











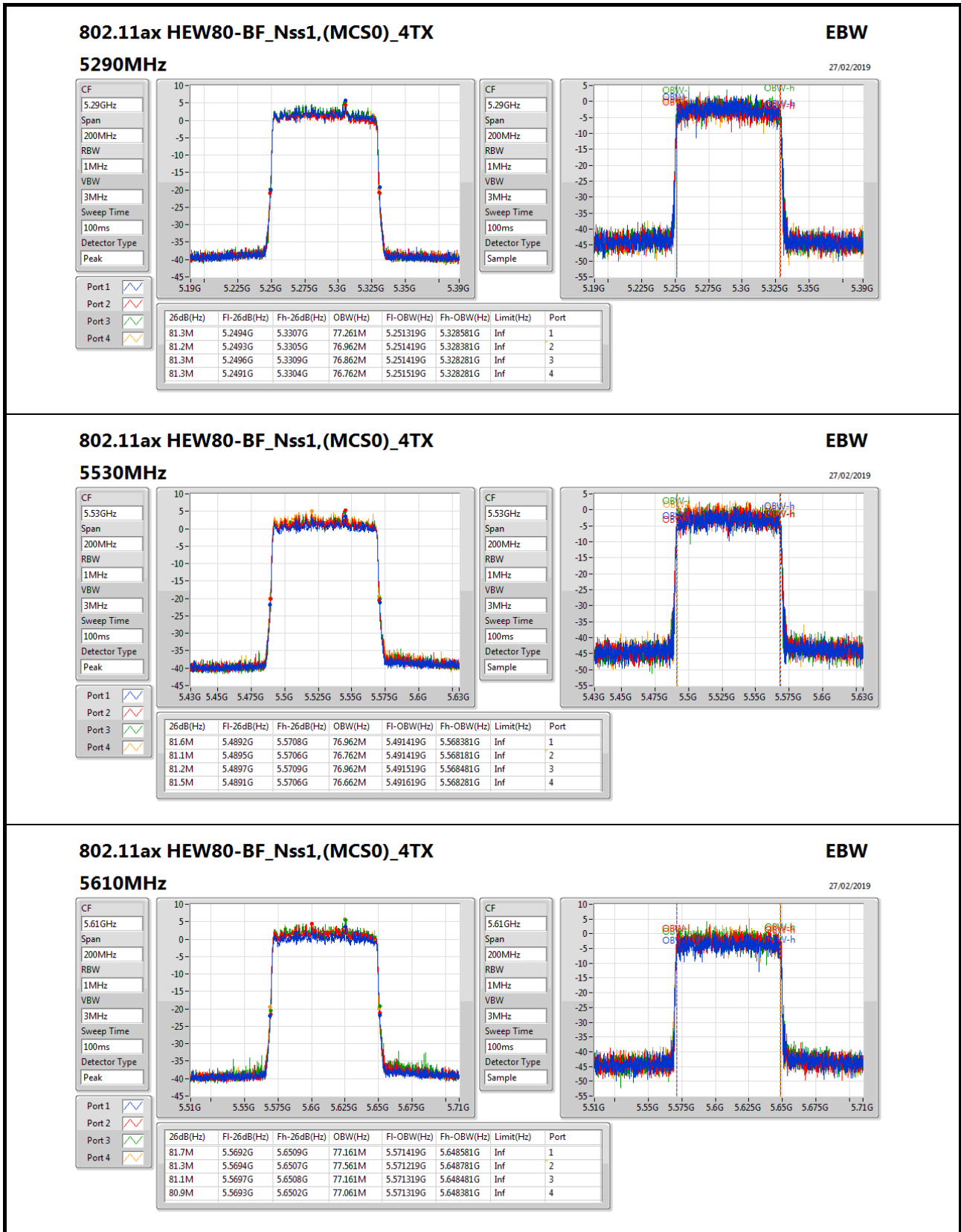
802.11ax HEW40-BF_Nss1,(MCS0)_4TX

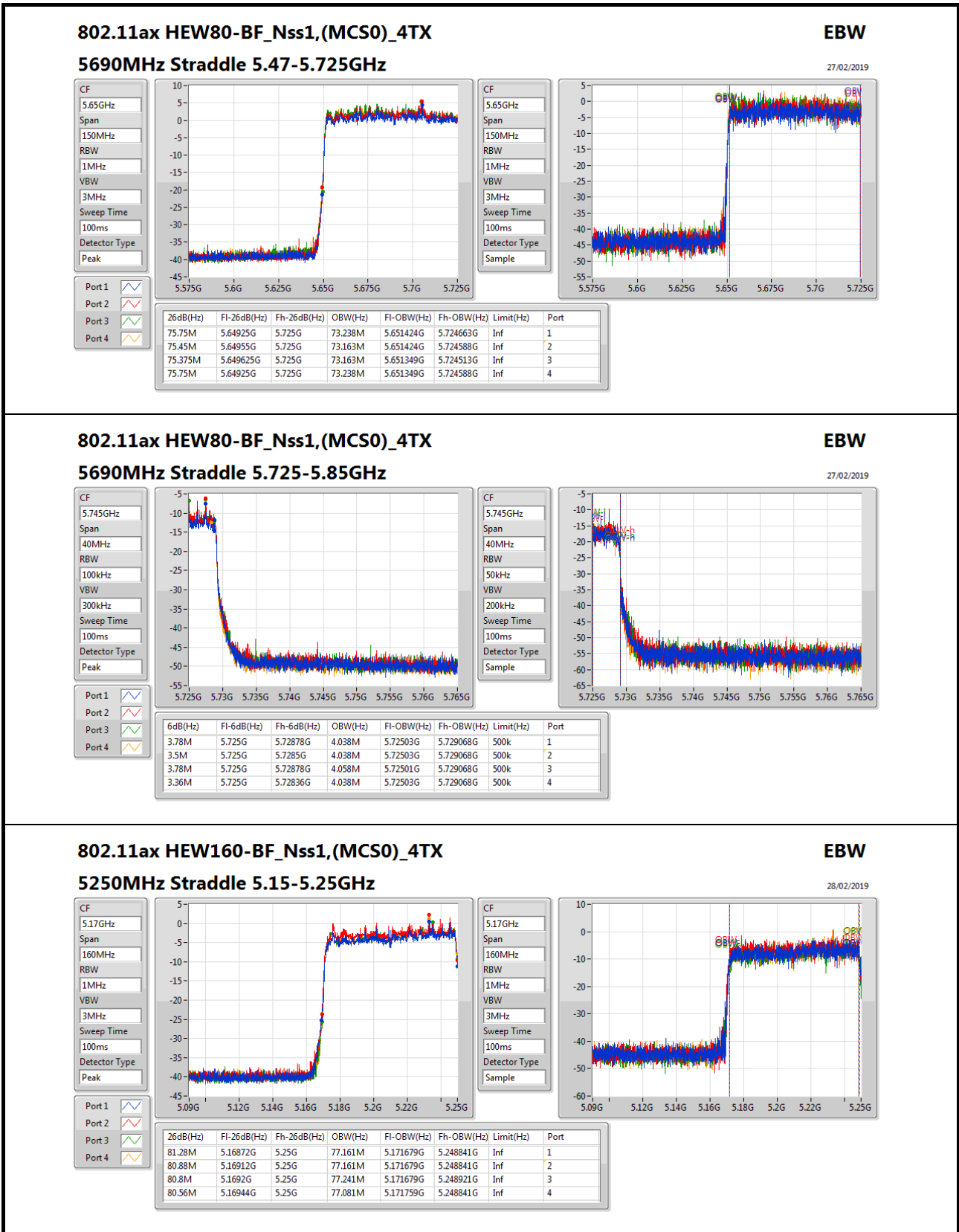
5710MHz Straddle 5.725-5.85GHz

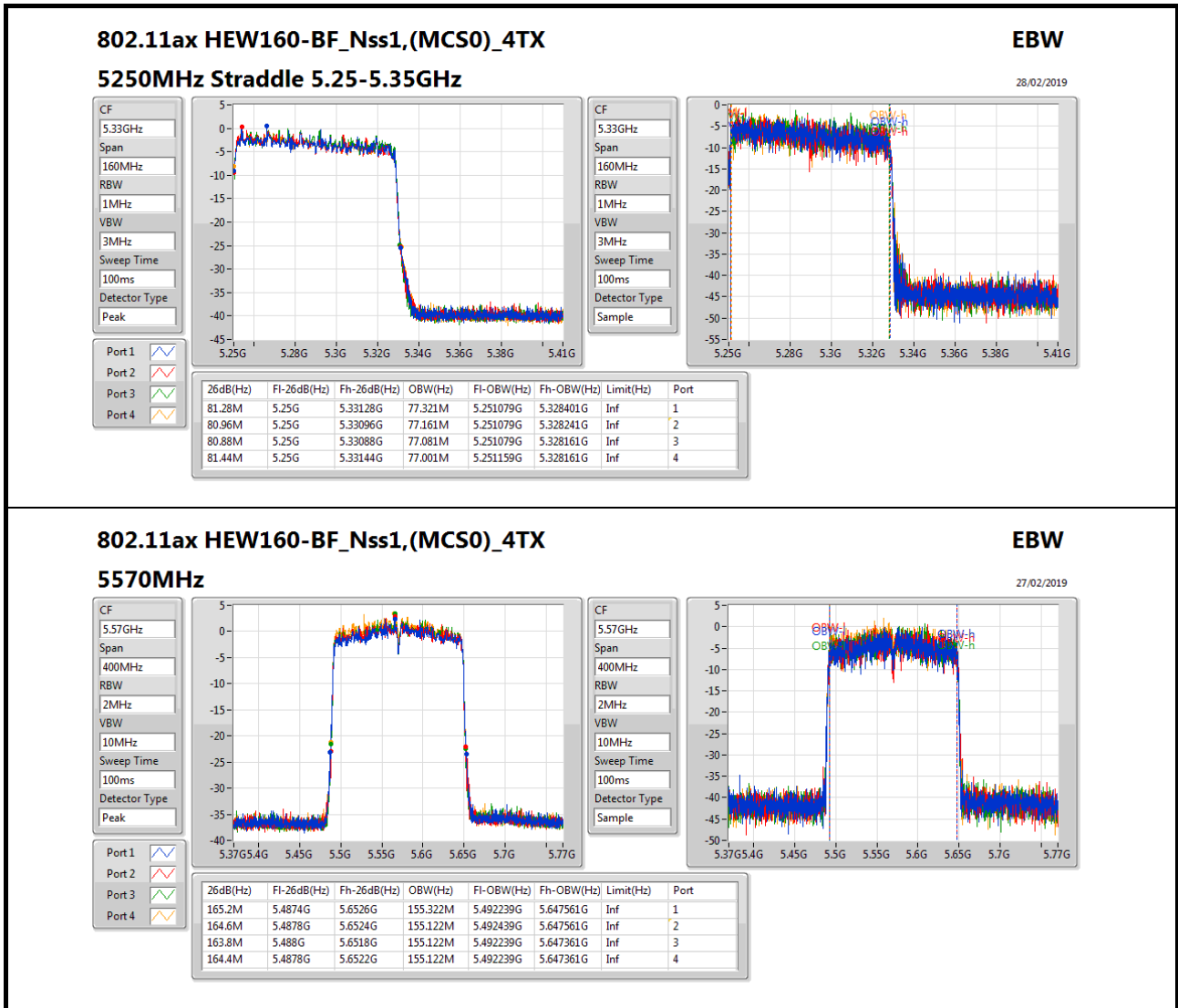
EBW
27.02.2019

CF: 5.745GHz
Span: 40MHz
RBW: 100kHz
VBW: 300kHz
Sweep Time: 100ms
Detector Type: Peak

CF: 5.745GHz
Span: 40MHz
RBW: 50kHz
VBW: 200kHz
Sweep Time: 100ms
Detector Type: Peak









EBW Result_Radio 1

**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 HEW160_Nss4,(MCS0)_4TX	81.68M	77.241M	77M2D1D	80.48M	77.081M
5.25-5.35GHz	-	-	-	-	-
802.11ax HEW20_Nss4,(MCS0)_4TX	22.675M	18.991M	19M0D1D	21.3M	18.941M
802.11ax HEW40_Nss4,(MCS0)_4TX	40.45M	37.681M	37M7D1D	40.05M	37.481M
802.11ax HEW80_Nss4,(MCS0)_4TX	81.9M	77.161M	77M2D1D	81.4M	76.862M
802.11ax HEW160_Nss4,(MCS0)_4TX	82.88M	77.241M	77M2D1D	81.68M	77.081M
5.47-5.725GHz	-	-	-	-	-
802.11ax HEW20_Nss4,(MCS0)_4TX	26.8M	19.015M	19M0D1D	18.855M	14.498M
802.11ax HEW40_Nss4,(MCS0)_4TX	49.77M	37.681M	37M7D1D	40.1M	33.723M
802.11ax HEW80_Nss4,(MCS0)_4TX	82M	77.261M	77M3D1D	75.75M	73.088M
802.11ax HEW160_Nss4,(MCS0)_4TX	166M	155.522M	156MD1D	164.8M	154.923M
5.725-5.85GHz	-	-	-	-	-
802.11ax HEW20_Nss4,(MCS0)_4TX	4.46M	8.096M	8M10D1D	4.42M	5.477M
802.11ax HEW40_Nss4,(MCS0)_4TX	3.92M	19.15M	19M1D1D	3.88M	13.573M
802.11ax HEW80_Nss4,(MCS0)_4TX	3.96M	24.068M	24M1D1D	3.3M	16.852M

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

Max-OBW = Maximum 99% occupied bandwidth;

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

Min-OBW = Minimum 99% occupied bandwidth;



EBW Result_Radio 1

Appendix A.10

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	-	-	-	-	-	-	-	-	-	-
5260MHz	Pass	Inf	22.675M	18.966M	22M	18.991M	21.825M	18.991M	21.325M	18.991M
5300MHz	Pass	Inf	21.9M	18.941M	21.875M	18.941M	21.75M	18.966M	21.3M	18.941M
5320MHz	Pass	Inf	21.825M	18.991M	21.7M	18.991M	21.8M	18.966M	21.35M	18.966M
5500MHz	Pass	Inf	21.775M	18.991M	21.7M	18.991M	21.825M	18.991M	21.375M	18.991M
5580MHz	Pass	Inf	22.05M	18.966M	22.05M	18.991M	22.1M	18.991M	26.8M	19.015M
5700MHz	Pass	Inf	21.875M	18.941M	21.725M	18.916M	21.8M	18.966M	21.375M	18.991M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	20.385M	14.513M	18.855M	14.498M	21.81M	14.603M	20.4M	14.543M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	4.44M	5.757M	4.46M	5.477M	4.42M	8.096M	4.46M	6.417M
802.11ax HEW40_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5270MHz	Pass	Inf	40.45M	37.581M	40.35M	37.481M	40.2M	37.481M	40.25M	37.681M
5310MHz	Pass	Inf	40.35M	37.531M	40.3M	37.531M	40.05M	37.581M	40.2M	37.631M
5510MHz	Pass	Inf	40.3M	37.581M	40.3M	37.581M	40.1M	37.581M	40.15M	37.531M
5550MHz	Pass	Inf	40.4M	37.631M	40.3M	37.631M	40.2M	37.481M	49.4M	37.681M
5670MHz	Pass	Inf	40.35M	37.581M	40.25M	37.581M	40.1M	37.531M	40.2M	37.631M
5710MHz Straddle 5.47-5.725GHz	Pass	Inf	42.98M	33.723M	46.725M	33.793M	49.77M	33.758M	49.7M	33.758M
5710MHz Straddle 5.725-5.85GHz	Pass	500k	3.92M	13.573M	3.88M	17.971M	3.9M	19.15M	3.9M	17.511M
802.11ax HEW80_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5290MHz	Pass	Inf	81.4M	76.862M	81.5M	77.161M	81.7M	77.161M	81.9M	77.061M
5530MHz	Pass	Inf	81.4M	76.862M	81.3M	76.962M	81.8M	77.061M	81.8M	76.962M
5610MHz	Pass	Inf	81.4M	76.962M	81.3M	77.261M	81.9M	77.061M	82M	77.161M
5690MHz Straddle 5.47-5.725GHz	Pass	Inf	76.35M	73.238M	75.75M	73.088M	77.55M	73.238M	75.825M	73.313M
5690MHz Straddle 5.725-5.85GHz	Pass	500k	3.78M	22.809M	3.34M	16.852M	3.96M	24.068M	3.3M	17.271M
802.11ax HEW160_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	Inf	81.04M	77.161M	81.68M	77.241M	80.48M	77.161M	80.8M	77.081M
5250MHz Straddle 5.25-5.35GHz	Pass	Inf	81.92M	77.241M	82.88M	77.161M	82.56M	77.081M	81.68M	77.081M
5570MHz	Pass	Inf	164.8M	155.122M	166M	155.522M	165.4M	155.122M	165.6M	154.923M

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;

