



**For Indoor use for 5G Band 1 and Indoor/Outdoor use for 5G Band 2 ~ Band 4:  
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	81.36M	77.321M	77M3D1D	80.88M	76.922M
5.25-5.35GHz	-	-	-	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	21.95M	18.991M	19M0D1D	21.375M	18.941M
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	40.25M	37.581M	37M6D1D	39.95M	37.431M
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	81.6M	77.061M	77M1D1D	81.1M	76.862M
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	81.44M	77.081M	77M1D1D	81.2M	76.922M
5.47-5.725GHz	-	-	-	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	21.975M	19.015M	19M0D1D	15.66M	14.438M
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	40.25M	37.631M	37M6D1D	35M	33.653M
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	81.4M	77.161M	77M2D1D	75.375M	73.163M
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	165.2M	155.322M	155MD1D	163.8M	154.923M
5.725-5.85GHz	-	-	-	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	4.52M	4.538M	4M54D1D	4.48M	4.518M
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	3.98M	4.038M	4M04D1D	3.8M	4.018M
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	3.76M	4.058M	4M06D1D	3.28M	4.018M

**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;

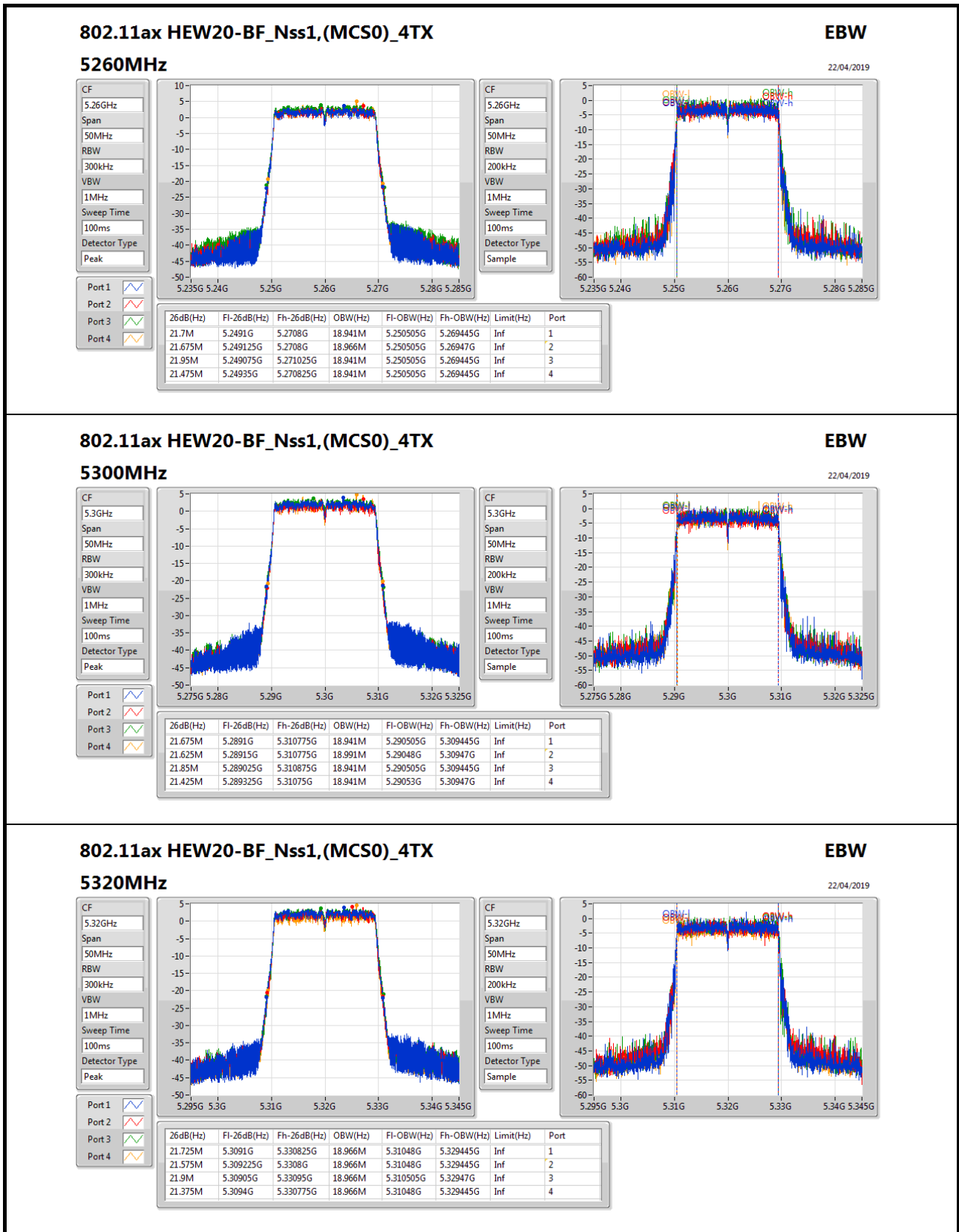
**Min-OBW** = Minimum 99% occupied bandwidth;



**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	-	-	-	-	-	-	-	-	-	-
5260MHz	Pass	Inf	21.7M	18.941M	21.675M	18.966M	21.95M	18.941M	21.475M	18.941M
5300MHz	Pass	Inf	21.675M	18.941M	21.625M	18.991M	21.85M	18.941M	21.425M	18.941M
5320MHz	Pass	Inf	21.725M	18.966M	21.575M	18.966M	21.9M	18.966M	21.375M	18.966M
5500MHz	Pass	Inf	21.675M	18.966M	21.65M	18.966M	21.925M	18.966M	21.375M	18.941M
5580MHz	Pass	Inf	21.725M	18.966M	21.75M	18.966M	21.825M	18.966M	21.325M	18.966M
5700MHz	Pass	Inf	21.75M	18.966M	21.65M	19.015M	21.975M	18.991M	21.375M	18.966M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	15.765M	14.438M	15.795M	14.468M	15.75M	14.498M	15.66M	14.468M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	4.48M	4.538M	4.5M	4.538M	4.52M	4.518M	4.48M	4.518M
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5270MHz	Pass	Inf	40M	37.531M	39.95M	37.481M	40.05M	37.481M	40.15M	37.581M
5310MHz	Pass	Inf	39.95M	37.431M	40.1M	37.531M	40.1M	37.581M	40.25M	37.531M
5510MHz	Pass	Inf	40M	37.531M	40.1M	37.581M	40.1M	37.531M	40.1M	37.581M
5550MHz	Pass	Inf	40M	37.581M	40.1M	37.631M	40.05M	37.481M	40.1M	37.581M
5670MHz	Pass	Inf	40M	37.531M	40.1M	37.481M	40M	37.581M	40.25M	37.531M
5710MHz Straddle 5.47-5.725GHz	Pass	Inf	35M	33.688M	35M	33.688M	35.035M	33.653M	35.035M	33.688M
5710MHz Straddle 5.725-5.85GHz	Pass	500k	3.84M	4.018M	3.98M	4.038M	3.8M	4.038M	3.88M	4.038M
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5290MHz	Pass	Inf	81.6M	76.962M	81.2M	76.862M	81.1M	76.962M	81.1M	77.061M
5530MHz	Pass	Inf	81.4M	76.762M	81.3M	77.061M	81M	76.962M	81.2M	77.061M
5610MHz	Pass	Inf	81.4M	77.161M	80.9M	77.161M	80.9M	77.061M	81.2M	77.061M
5690MHz Straddle 5.47-5.725GHz	Pass	Inf	75.75M	73.163M	75.525M	73.163M	75.375M	73.313M	75.9M	73.238M
5690MHz Straddle 5.725-5.85GHz	Pass	500k	3.76M	4.038M	3.48M	4.058M	3.76M	4.058M	3.28M	4.018M
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	Inf	81.36M	77.161M	81.12M	77.321M	81.04M	77.321M	80.88M	76.922M
5250MHz Straddle 5.25-5.35GHz	Pass	Inf	81.36M	77.001M	81.28M	76.922M	81.2M	77.081M	81.44M	77.081M
5570MHz	Pass	Inf	165.2M	155.122M	165M	154.923M	163.8M	155.322M	164.4M	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;

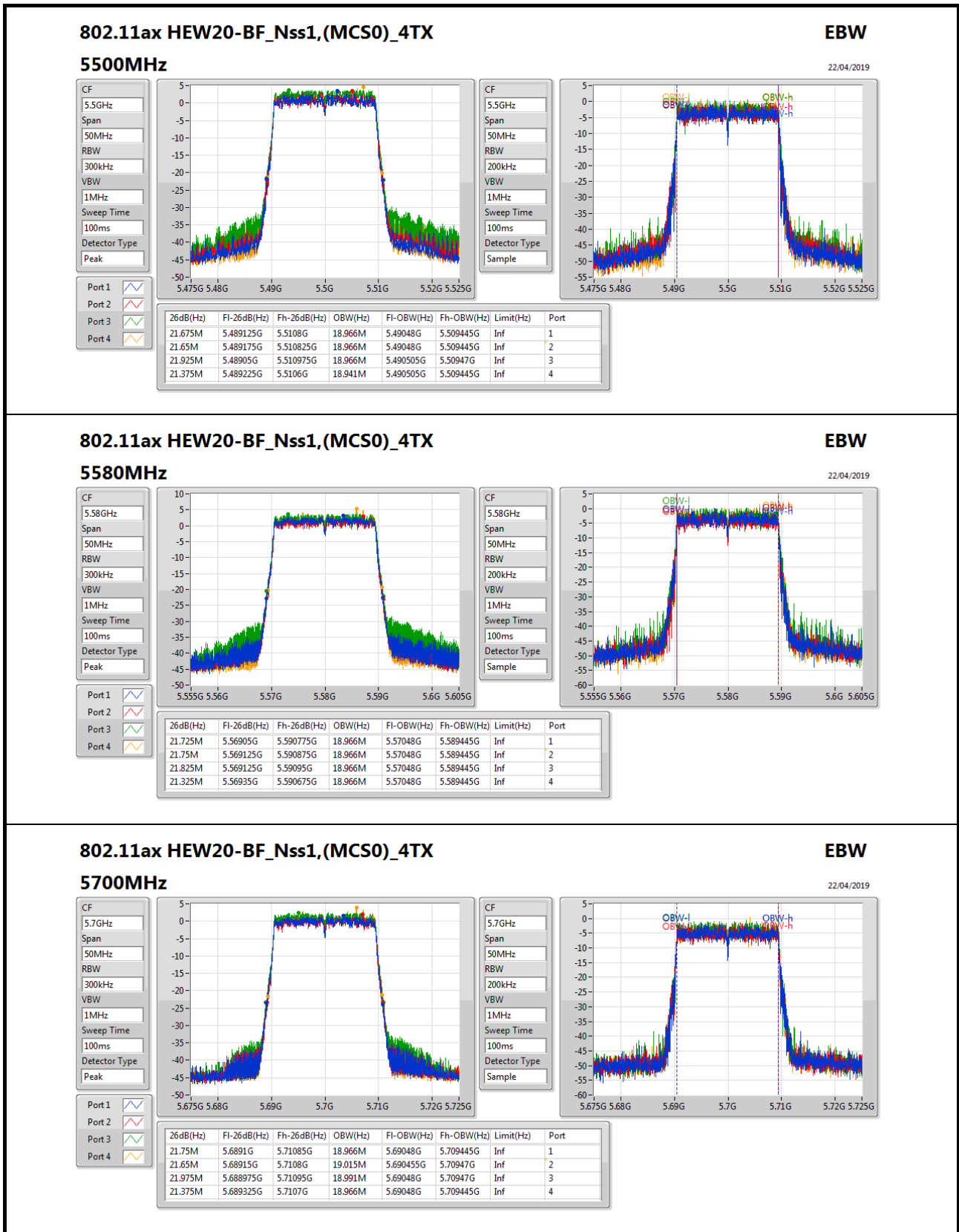

**802.11ax HEW20-BF\_Nss1,(MCS0)\_4TX**
**EBW**

**5320MHz**

22/04/2019

CF: 5.32GHz  
Span: 50MHz  
RBW: 300kHz  
VBW: 1MHz  
Sweep Time: 100ms  
Detector Type: Peak

CF: 5.32GHz  
Span: 50MHz  
RBW: 200kHz  
VBW: 1MHz  
Sweep Time: 100ms  
Detector Type: Sample

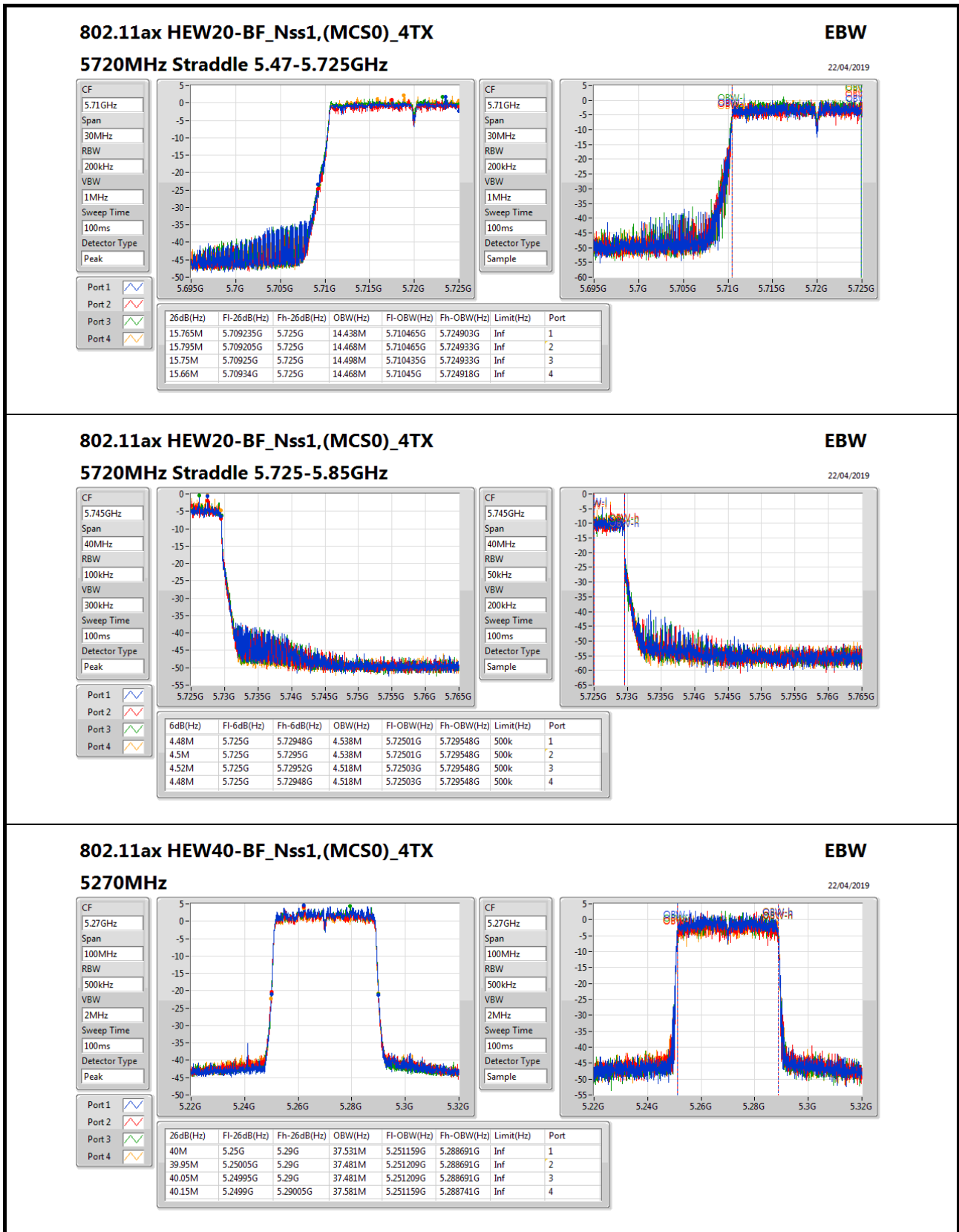

**802.11ax HEW20-BF\_Nss1,(MCS0)\_4TX**
**EBW**

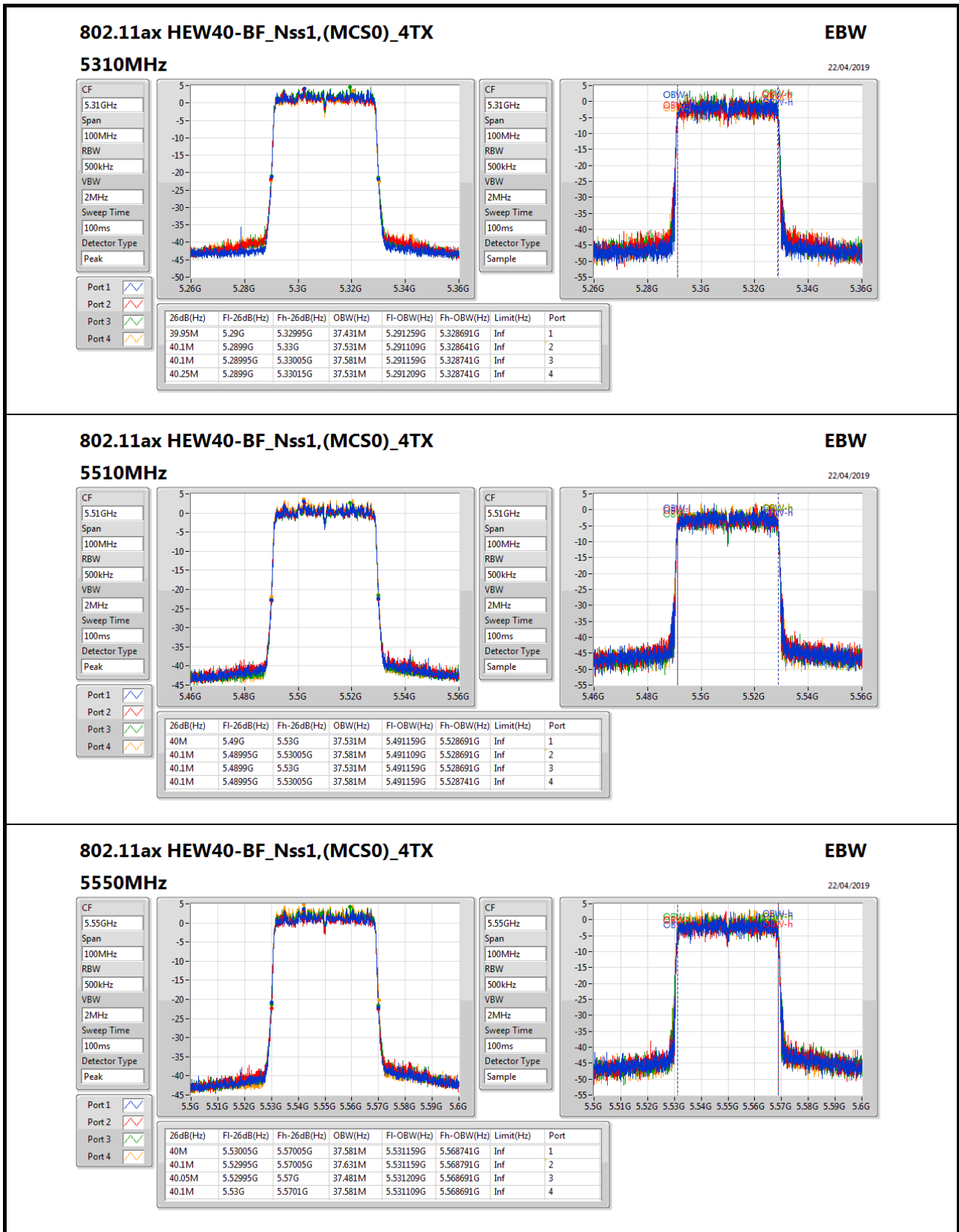
CF: 5.7GHz  
Span: 50MHz  
RBW: 300kHz  
VBW: 1MHz  
Sweep Time: 100ms  
Detector Type: Peak

Port 1: [Blue line]  
Port 2: [Red line]  
Port 3: [Green line]  
Port 4: [Orange line]

26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
21.75M	5.6891G	5.71085G	18.966M	5.69048G	5.709445G	Inf	1
21.65M	5.68915G	5.7108G	19.015M	5.690455G	5.70947G	Inf	2
21.975M	5.688975G	5.71095G	18.991M	5.69048G	5.70947G	Inf	3
21.375M	5.689325G	5.7107G	18.966M	5.69048G	5.709445G	Inf	4

CF: 5.7GHz  
Span: 50MHz  
RBW: 200kHz  
VBW: 1MHz  
Sweep Time: 100ms  
Detector Type: Sample




**802.11ax HEW40-BF\_Nss1,(MCS0)\_4TX**
**EBW**
**5550MHz**
22/04/2019

CF: 5.55GHz

Span: 100MHz

RBW: 500kHz

VBW: 2MHz

Sweep Time: 100ms

Detector Type: Peak

CF: 5.55GHz

Span: 100MHz

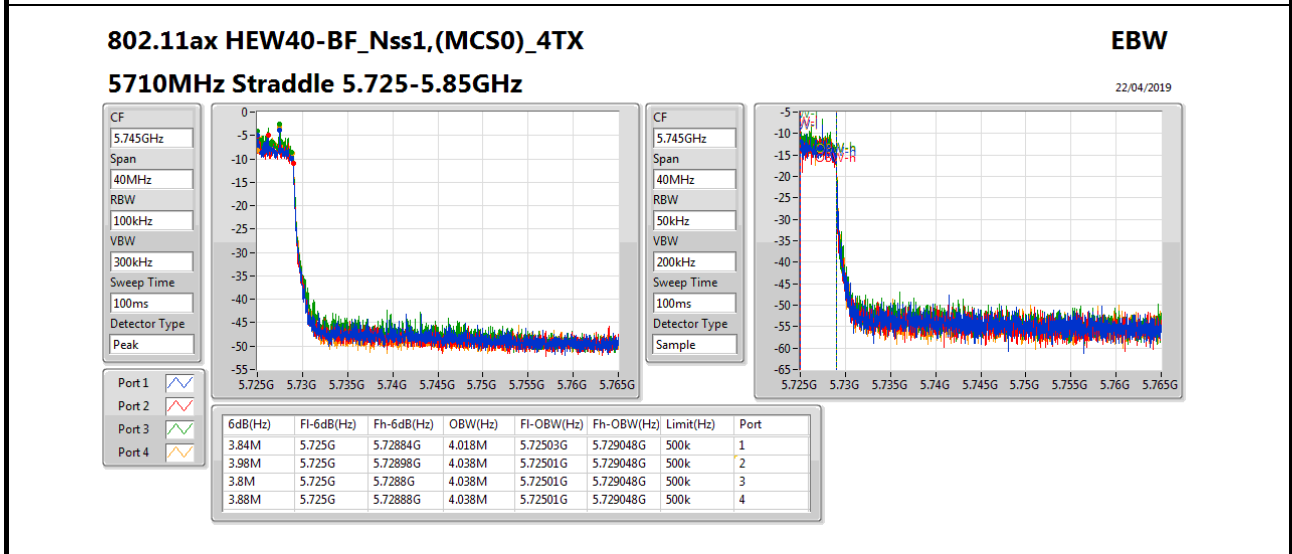
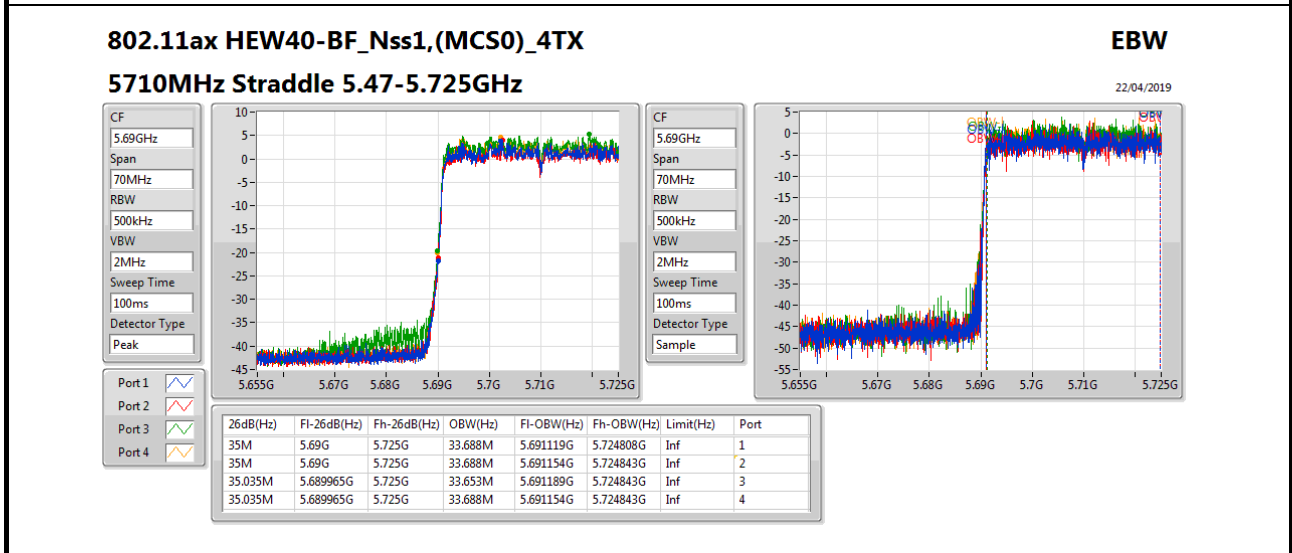
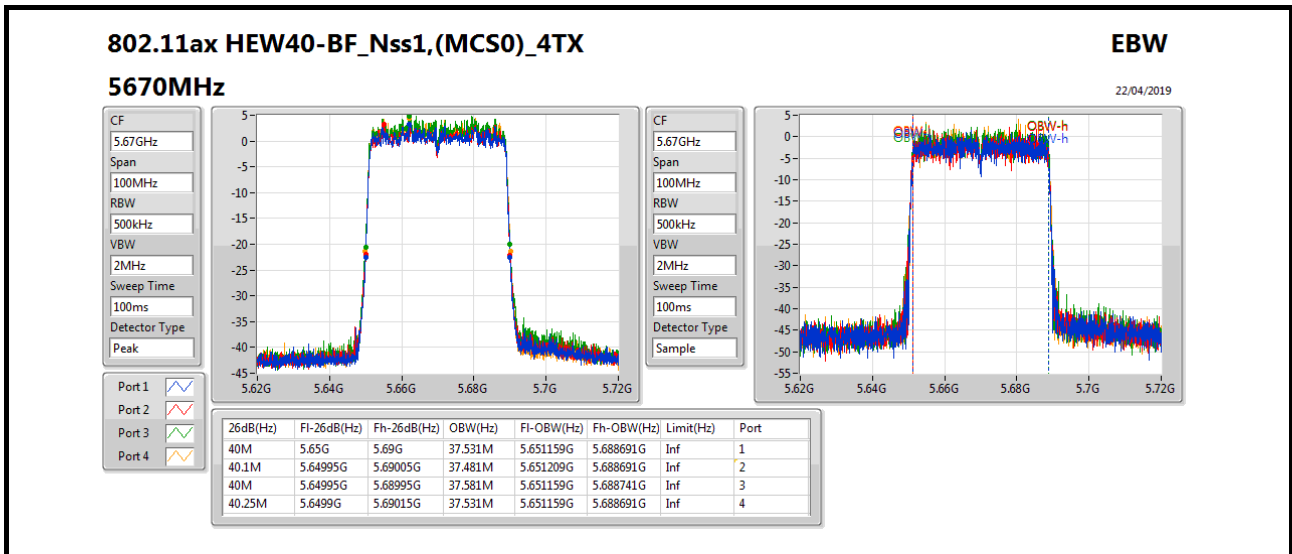
RBW: 500kHz

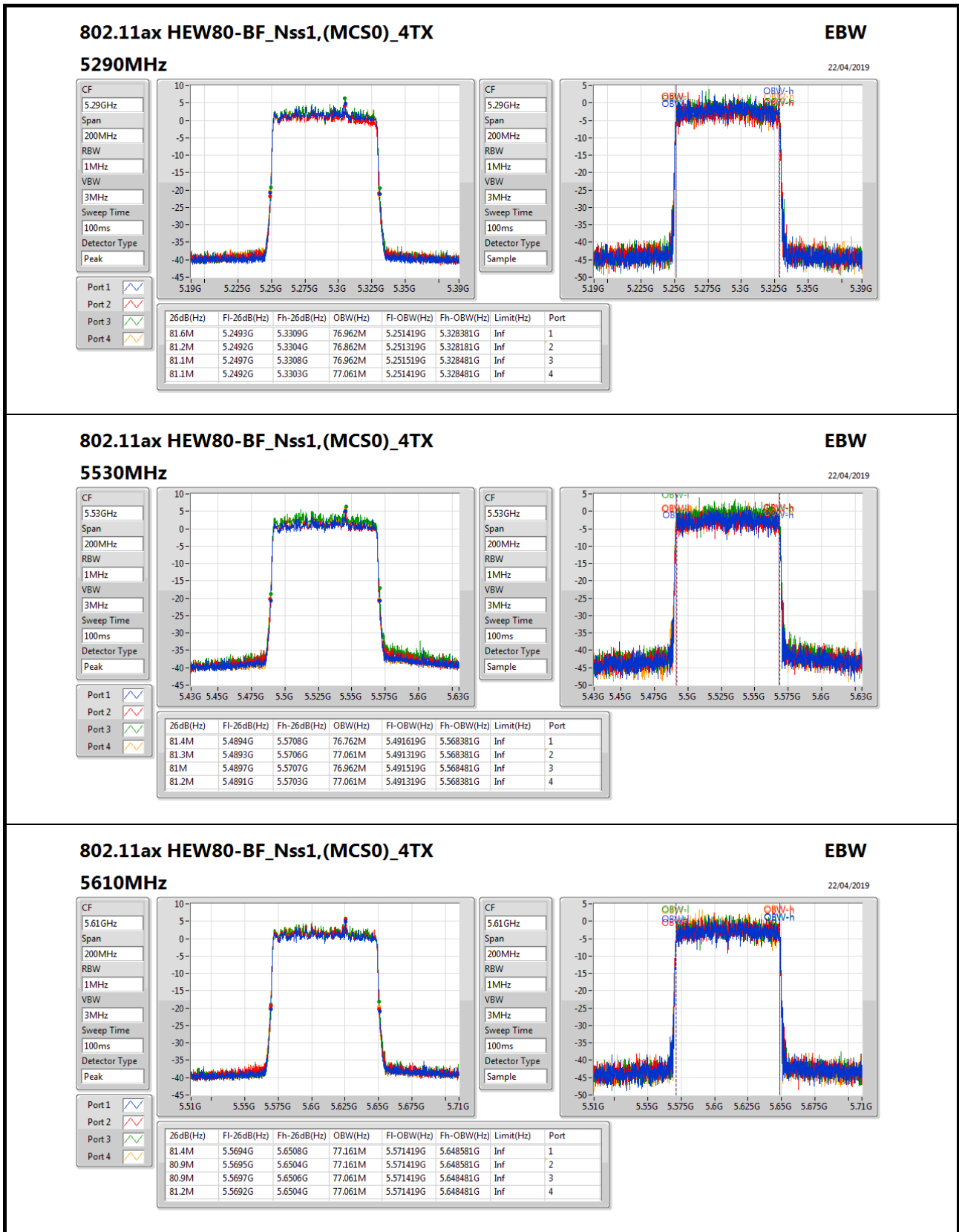
VBW: 2MHz

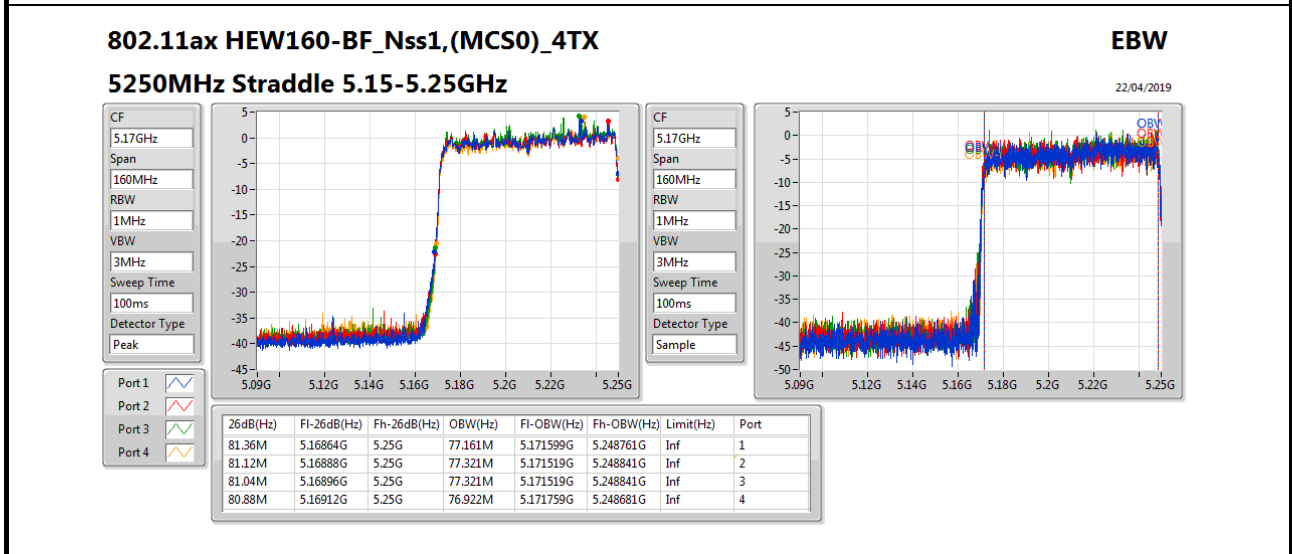
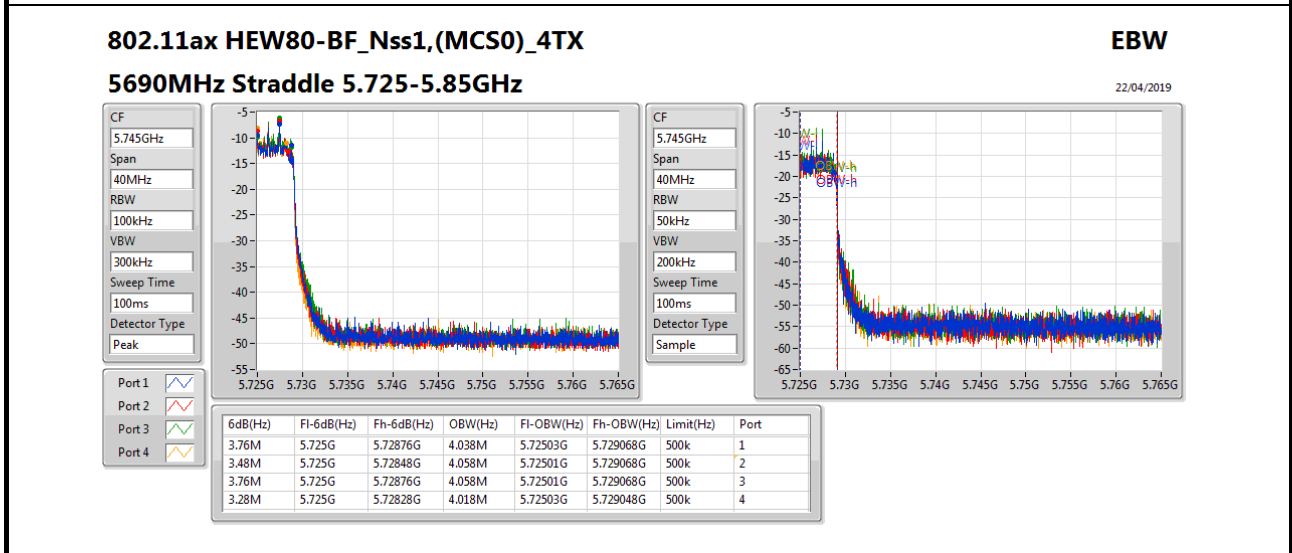
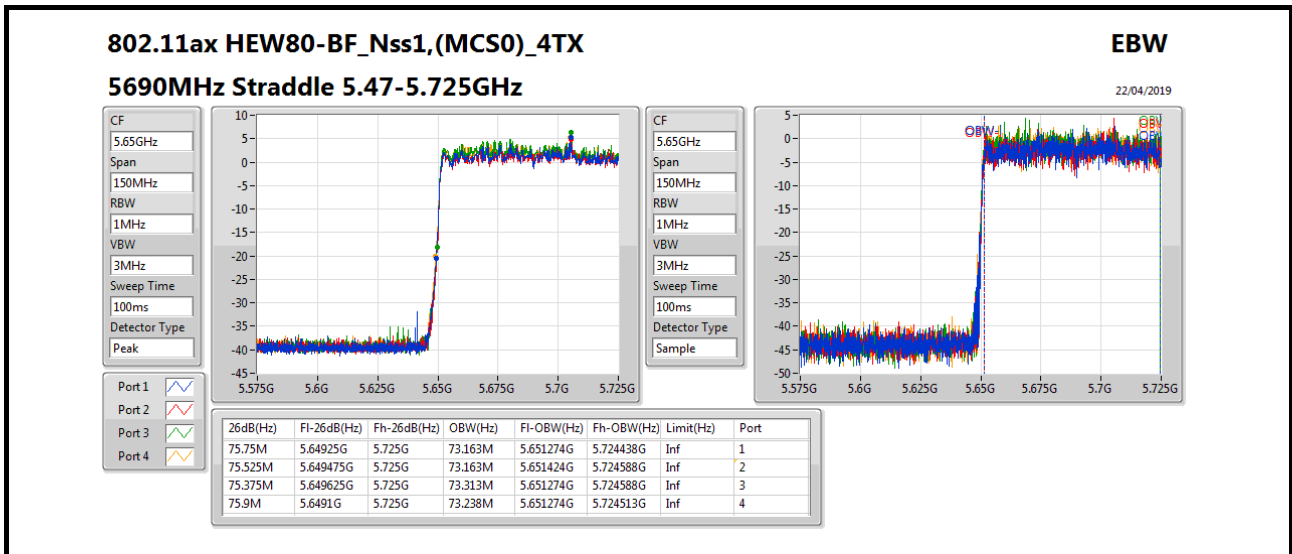
Sweep Time: 100ms

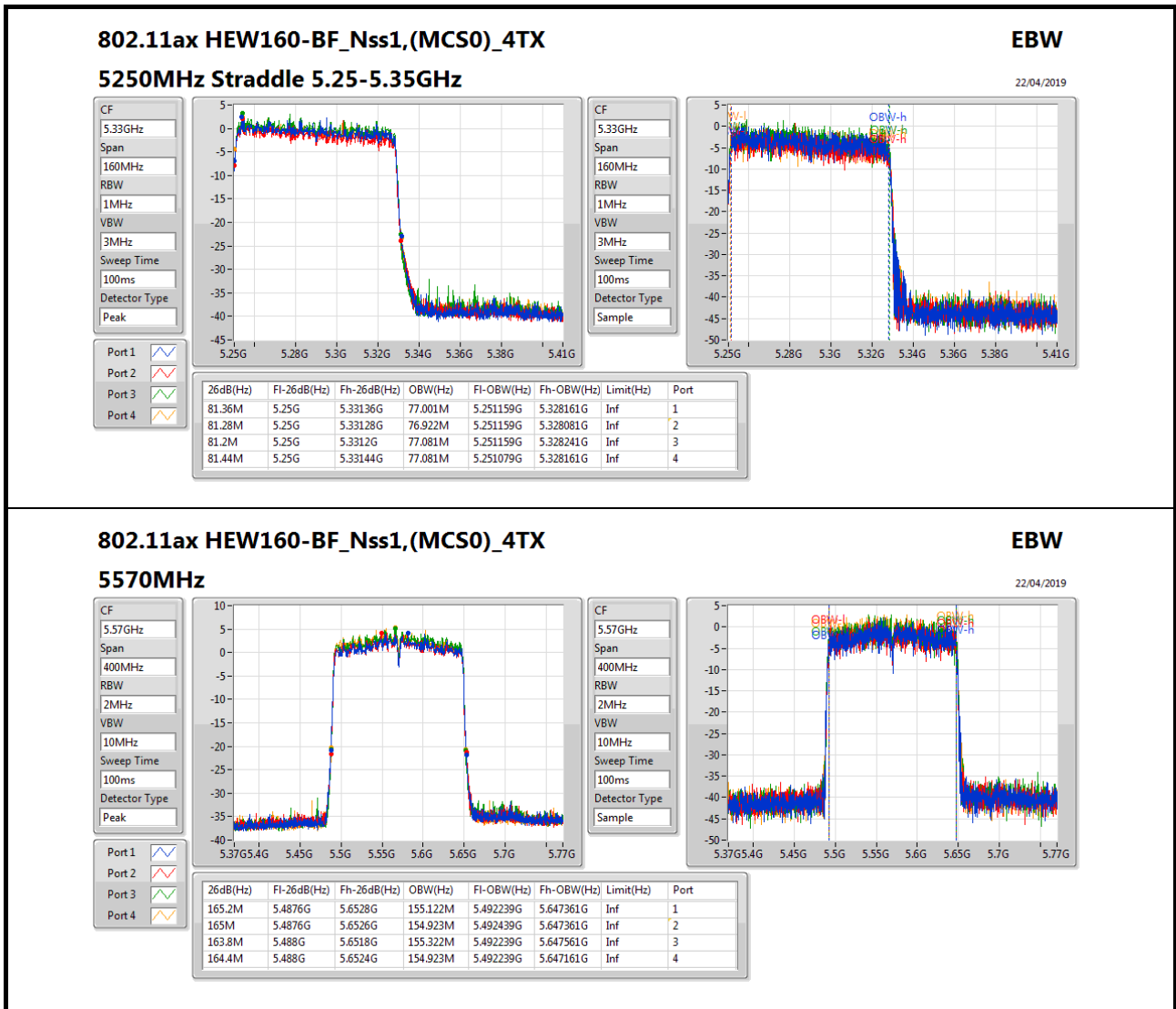
Detector Type: Sample











### 802.11ax HEW160-BF\_Nss1,(MCS0)\_4TX

#### 5570MHz

EBW

22/04/2019

CF 5.57GHz  
Span 400MHz  
RBW 2MHz  
VBW 10MHz  
Sweep Time 100ms  
Detector Type Peak

CF 5.57GHz  
Span 400MHz  
RBW 2MHz  
VBW 10MHz  
Sweep Time 100ms  
Detector Type Peak



**For Indoor use for 5G Band 1 and Indoor/Outdoor use for 5G Band 2 ~ Band 4:  
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	77.321M	77M3D1D	80.56M	77.081M
5.25-5.35GHz	-	-	-	-	-
802.11ax HEW20_Nss4,(MCS0)_4TX	22.05M	18.991M	19M0D1D	21.35M	18.916M
802.11ax HEW40_Nss4,(MCS0)_4TX	42.65M	37.631M	37M6D1D	40.1M	37.531M
802.11ax HEW80_Nss4,(MCS0)_4TX	81.9M	76.962M	77M0D1D	81.4M	76.962M
802.11ax HEW160_Nss4,(MCS0)_4TX	82.08M	77.161M	77M2D1D	81.04M	77.081M
5.47-5.725GHz	-	-	-	-	-
802.11ax HEW20_Nss4,(MCS0)_4TX	22.15M	19.015M	19M0D1D	15.9M	14.453M
802.11ax HEW40_Nss4,(MCS0)_4TX	49.55M	37.681M	37M7D1D	35.175M	33.618M
802.11ax HEW80_Nss4,(MCS0)_4TX	86.85M	77.161M	77M2D1D	75.6M	72.939M
802.11ax HEW160_Nss4,(MCS0)_4TX	167.8M	155.522M	156MD1D	164M	154.723M
5.725-5.85GHz	-	-	-	-	-
802.11ax HEW20_Nss4,(MCS0)_4TX	4.5M	4.738M	4M74D1D	4.42M	4.538M
802.11ax HEW40_Nss4,(MCS0)_4TX	3.9M	10.855M	10M9D1D	3.78M	7.936M
802.11ax HEW80_Nss4,(MCS0)_4TX	3.78M	23.808M	23M8D1D	3.46M	16.832M

**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;

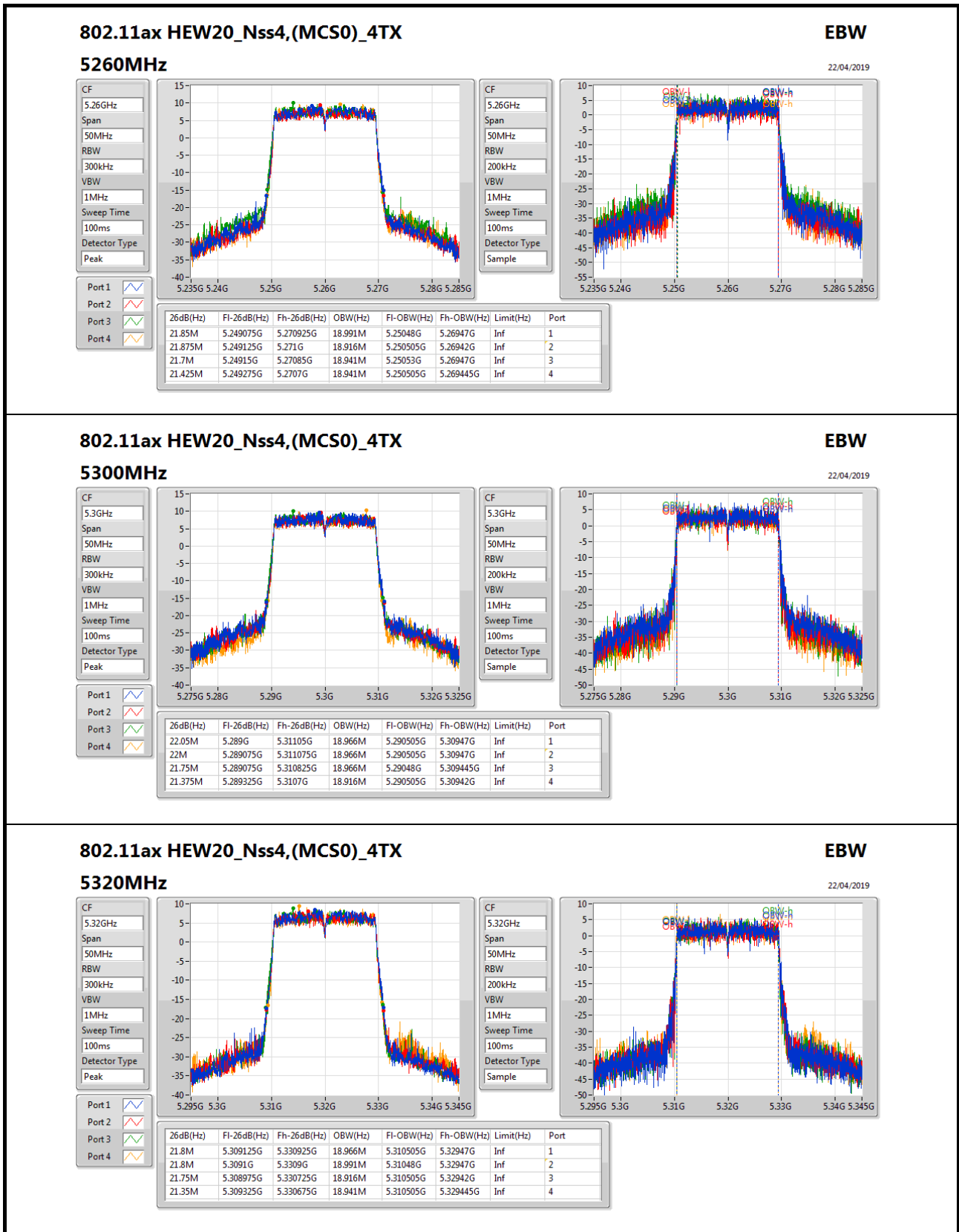
**Min-OBW** = Minimum 99% occupied bandwidth;

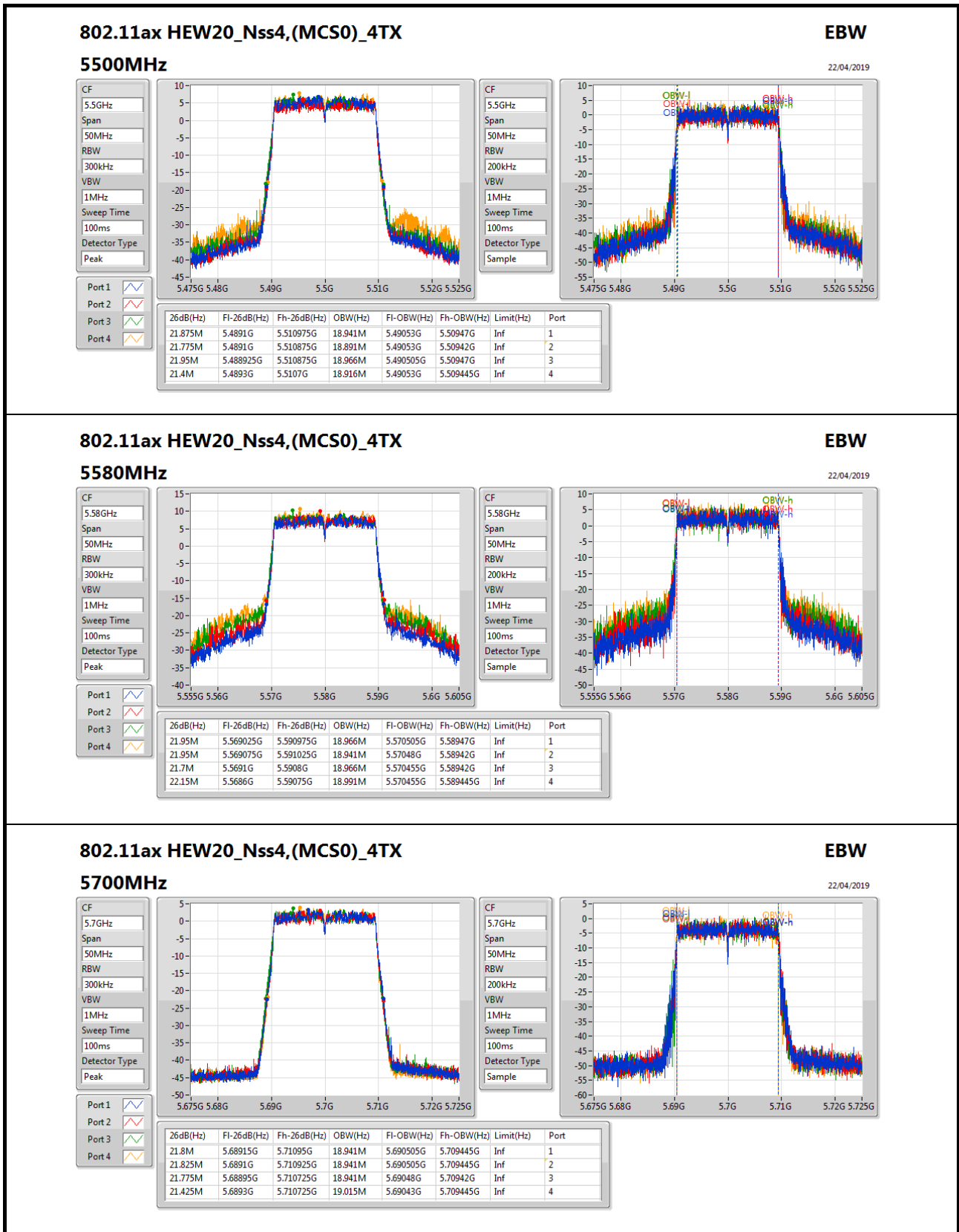


**Result**

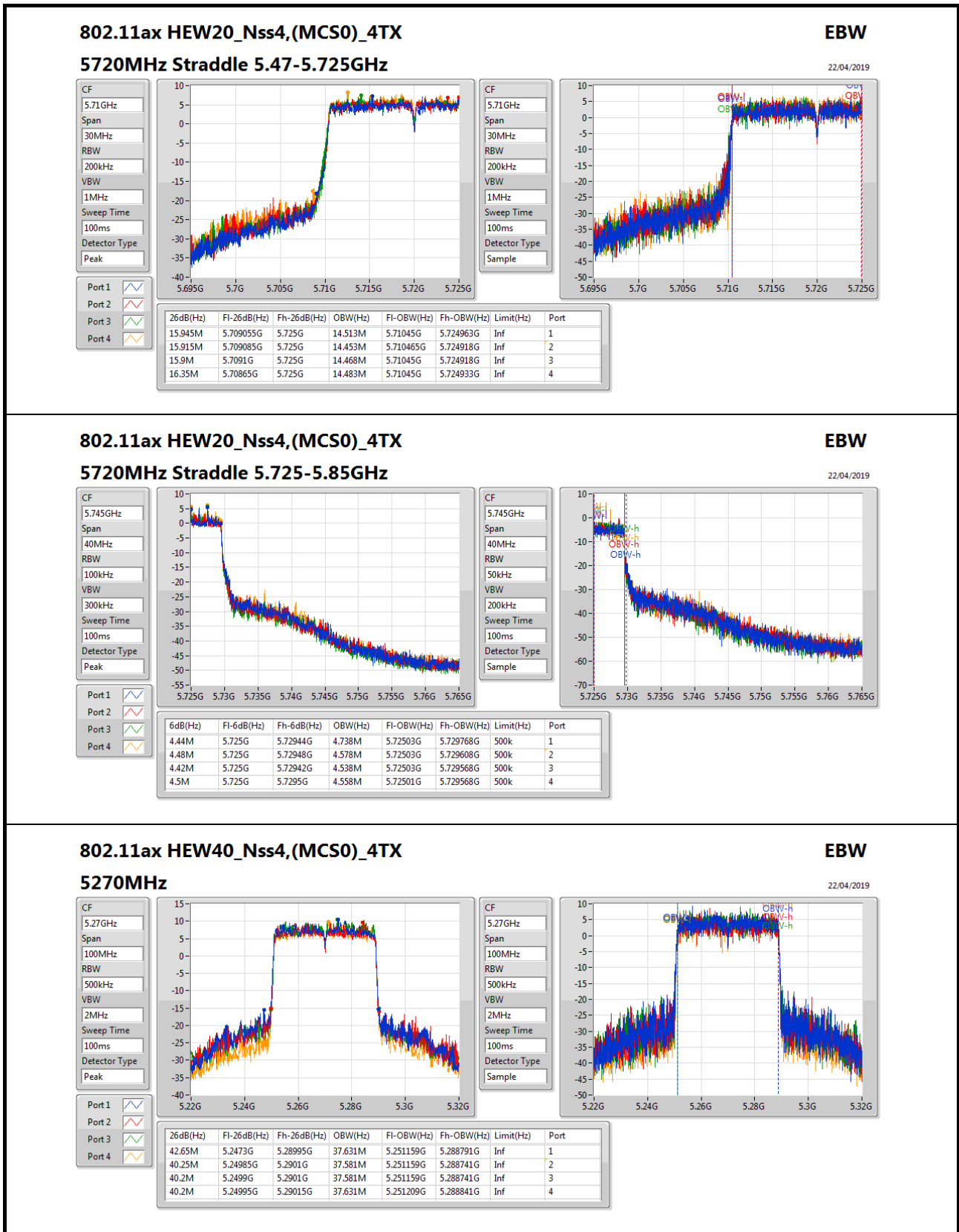
Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)	Port 3-N dB (Hz)	Port 3-OBW (Hz)	Port 4-N dB (Hz)	Port 4-OBW (Hz)
802.11ax HEW20_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5260MHz	Pass	Inf	21.85M	18.991M	21.875M	18.916M	21.7M	18.941M	21.425M	18.941M
5300MHz	Pass	Inf	22.05M	18.966M	22M	18.966M	21.75M	18.966M	21.375M	18.916M
5320MHz	Pass	Inf	21.8M	18.966M	21.8M	18.991M	21.75M	18.916M	21.35M	18.941M
5500MHz	Pass	Inf	21.875M	18.941M	21.775M	18.891M	21.95M	18.966M	21.4M	18.916M
5580MHz	Pass	Inf	21.95M	18.966M	21.95M	18.941M	21.7M	18.966M	22.15M	18.991M
5700MHz	Pass	Inf	21.8M	18.941M	21.825M	18.941M	21.775M	18.941M	21.425M	19.015M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	15.945M	14.513M	15.915M	14.453M	15.9M	14.468M	16.35M	14.483M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	4.44M	4.738M	4.48M	4.578M	4.42M	4.538M	4.5M	4.558M
802.11ax HEW40_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5270MHz	Pass	Inf	42.65M	37.631M	40.25M	37.581M	40.2M	37.581M	40.2M	37.631M
5310MHz	Pass	Inf	40.2M	37.581M	40.15M	37.531M	40.1M	37.581M	40.15M	37.531M
5510MHz	Pass	Inf	40.1M	37.631M	40.1M	37.581M	40.05M	37.481M	40.3M	37.581M
5550MHz	Pass	Inf	40.25M	37.481M	40.2M	37.681M	42.7M	37.581M	49.55M	37.581M
5670MHz	Pass	Inf	40.2M	37.531M	40.1M	37.581M	40.4M	37.531M	40.15M	37.531M
5710MHz Straddle 5.47-5.725GHz	Pass	Inf	35.91M	33.688M	35.175M	33.618M	45.115M	33.688M	39.795M	33.723M
5710MHz Straddle 5.725-5.85GHz	Pass	500k	3.9M	9.755M	3.88M	7.936M	3.78M	10.855M	3.9M	8.936M
802.11ax HEW80_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5290MHz	Pass	Inf	81.5M	76.962M	81.4M	76.962M	81.7M	76.962M	81.9M	76.962M
5530MHz	Pass	Inf	81.3M	76.962M	81.6M	77.161M	81.8M	76.962M	81.8M	76.962M
5610MHz	Pass	Inf	81.5M	77.061M	81.6M	76.962M	81.8M	76.962M	82M	77.061M
5690MHz Straddle 5.47-5.725GHz	Pass	Inf	75.6M	73.088M	75.975M	73.238M	76.05M	73.163M	86.85M	72.939M
5690MHz Straddle 5.725-5.85GHz	Pass	500k	3.56M	22.149M	3.78M	23.808M	3.46M	20.49M	3.76M	16.832M
802.11ax HEW160_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	Inf	81.04M	77.241M	81.68M	77.321M	80.56M	77.081M	80.88M	77.081M
5250MHz Straddle 5.25-5.35GHz	Pass	Inf	81.68M	77.081M	81.04M	77.081M	82.08M	77.081M	82.08M	77.161M
5570MHz	Pass	Inf	164.8M	154.723M	164M	155.522M	167.8M	155.322M	164.8M	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;









### 802.11ax HEW40\_Nss4,(MCS0)\_4TX

#### 5270MHz

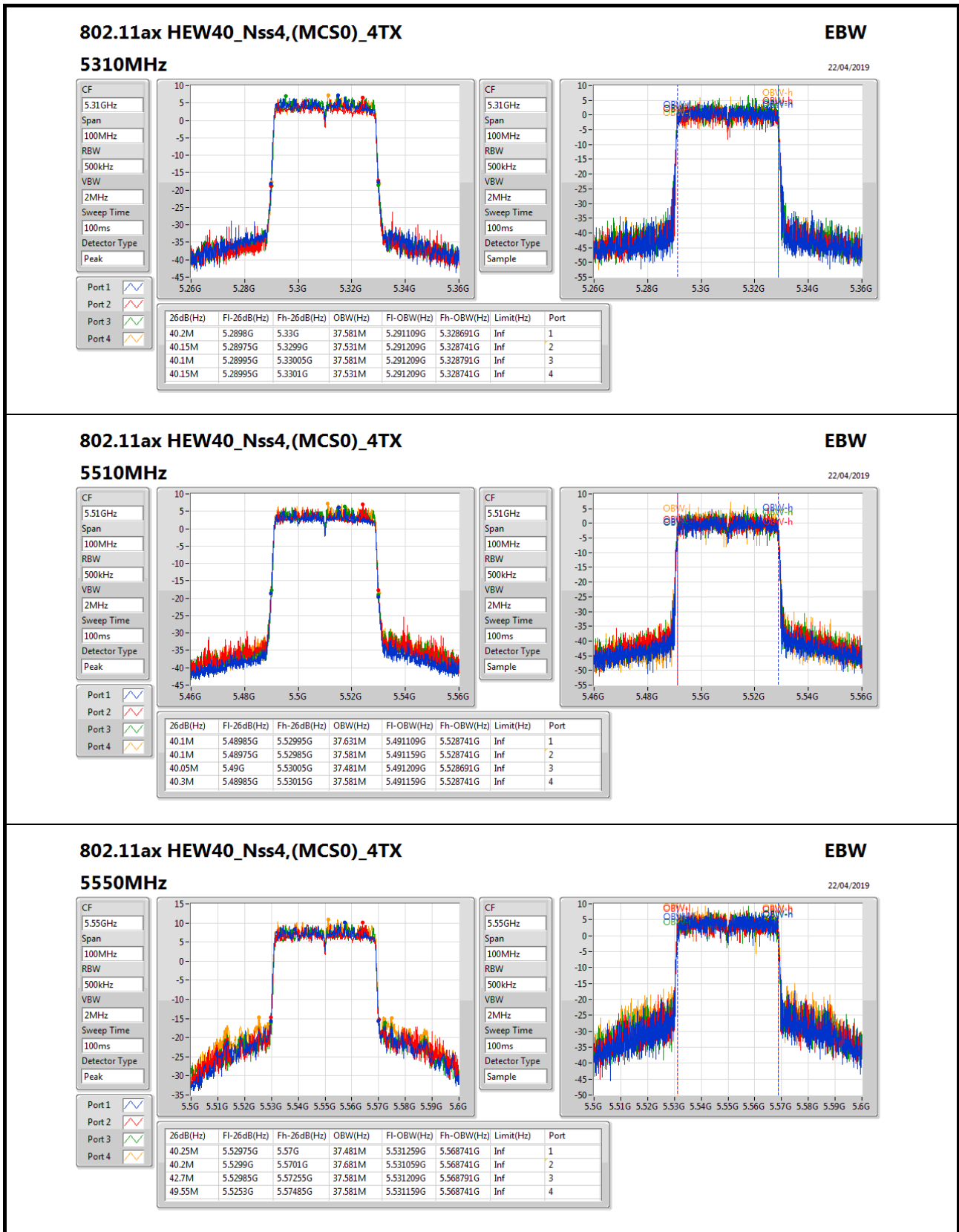
**EBW**  
22/04/2019

CF: 5.27GHz  
Span: 100MHz  
RBW: 500kHz  
VBW: 2MHz  
Sweep Time: 100ms  
Detector Type: Peak

Port 1:    
Port 2:    
Port 3:    
Port 4:

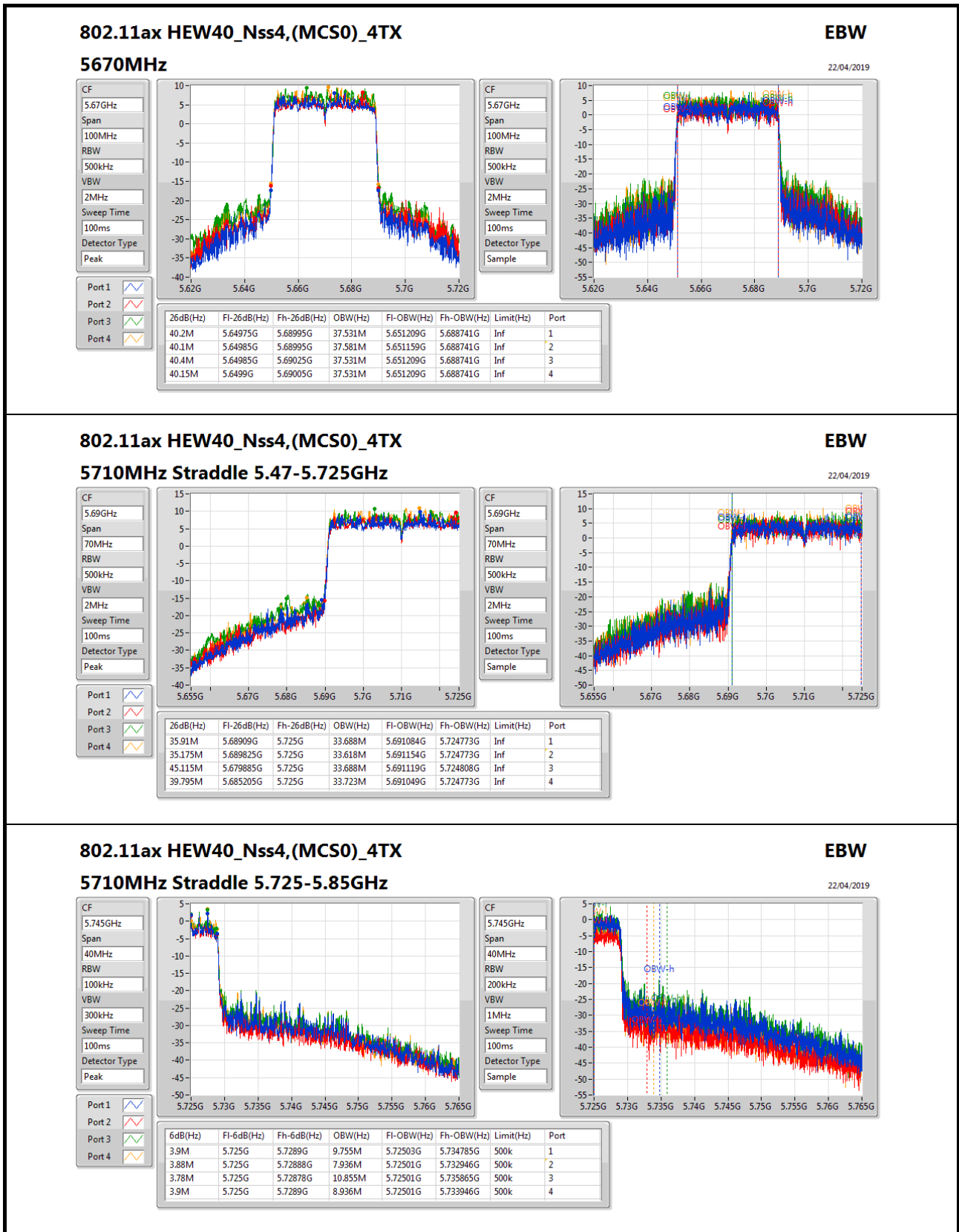
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
42.65M	5.2473G	5.28995G	37.631M	5.251159G	5.288791G	Inf	1
40.25M	5.24985G	5.2901G	37.581M	5.251159G	5.288741G	Inf	2
40.2M	5.2499G	5.2901G	37.581M	5.251159G	5.288741G	Inf	3
40.2M	5.24995G	5.29015G	37.631M	5.251209G	5.288841G	Inf	4

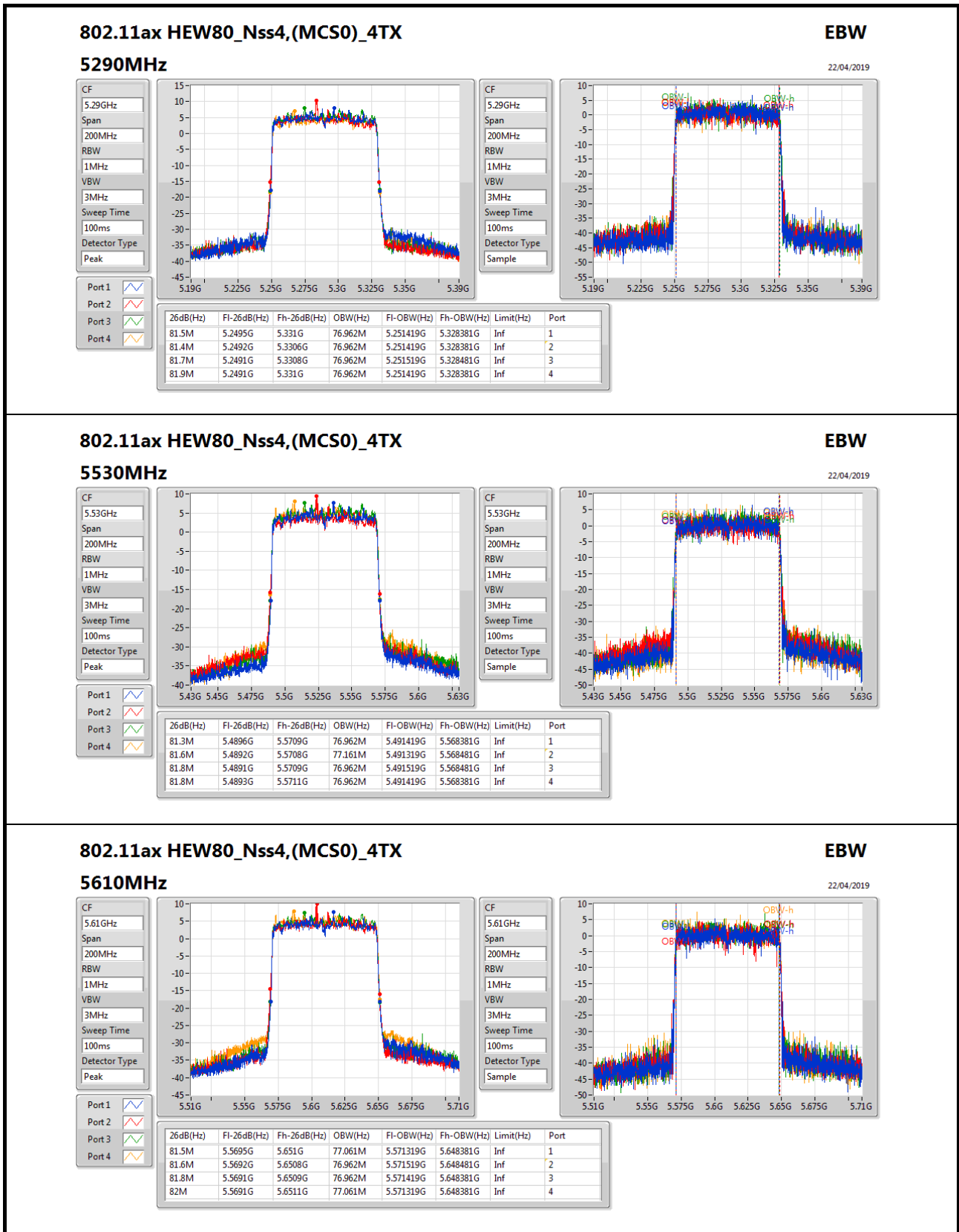
CF: 5.27GHz  
Span: 100MHz  
RBW: 500kHz  
VBW: 2MHz  
Sweep Time: 100ms  
Detector Type: Sample

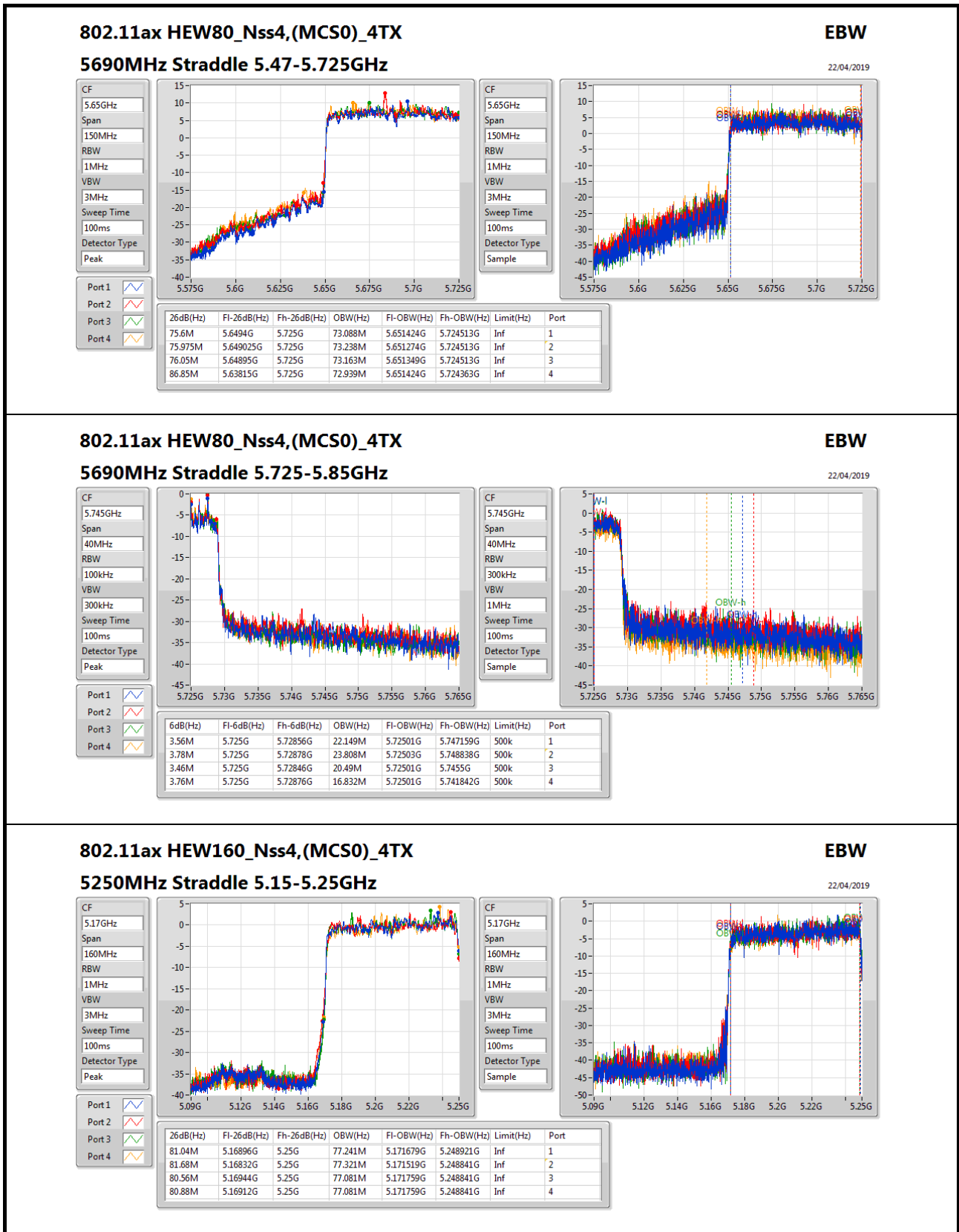

**802.11ax HEW40\_Nss4,(MCS0)\_4TX**
**EBW**
**5550MHz**
22/04/2019

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

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







### 802.11ax HEW160\_Nss4,(MCS0)\_4TX

#### 5250MHz Straddle 5.15-5.25GHz

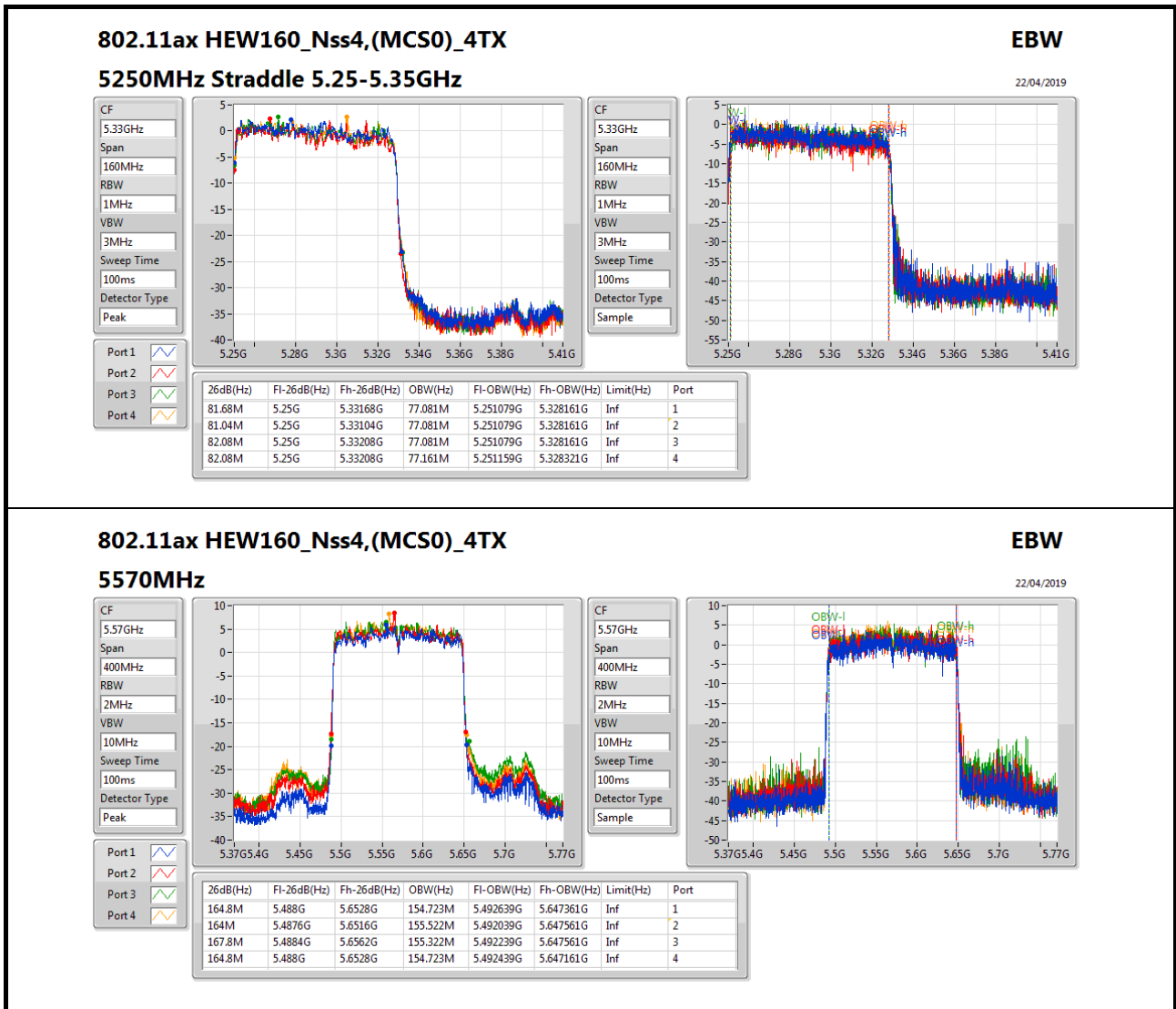
**EBW**  
22/04/2019

CF: 5.17GHz  
Span: 160MHz  
RBW: 1MHz  
VBW: 3MHz  
Sweep Time: 100ms  
Detector Type: Peak

Port 1: [Blue line]  
Port 2: [Red line]  
Port 3: [Green line]  
Port 4: [Orange line]

26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
81.04M	5.16896G	5.25G	77.241M	5.171679G	5.248921G	Inf	1
81.68M	5.16832G	5.25G	77.321M	5.171519G	5.248841G	Inf	2
80.56M	5.16944G	5.25G	77.081M	5.171759G	5.248841G	Inf	3
80.88M	5.16912G	5.25G	77.081M	5.171759G	5.248841G	Inf	4

CF: 5.17GHz  
Span: 160MHz  
RBW: 1MHz  
VBW: 3MHz  
Sweep Time: 100ms  
Detector Type: Sample





**For Outdoor use for 5G Band 1:  
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	81.44M	77.081M	77M1D1D	81.44M	77.081M
5.25-5.35GHz	-	-	-	-	-
802.11ax HEW160_Nss1,(MCS0)_1TX	81.36M	77.161M	77M2D1D	81.36M	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)
802.11ax HEW160_Nss1,(MCS0)_1TX	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	Inf	81.44M	77.081M
5250MHz Straddle 5.25-5.35GHz	Pass	Inf	81.36M	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;

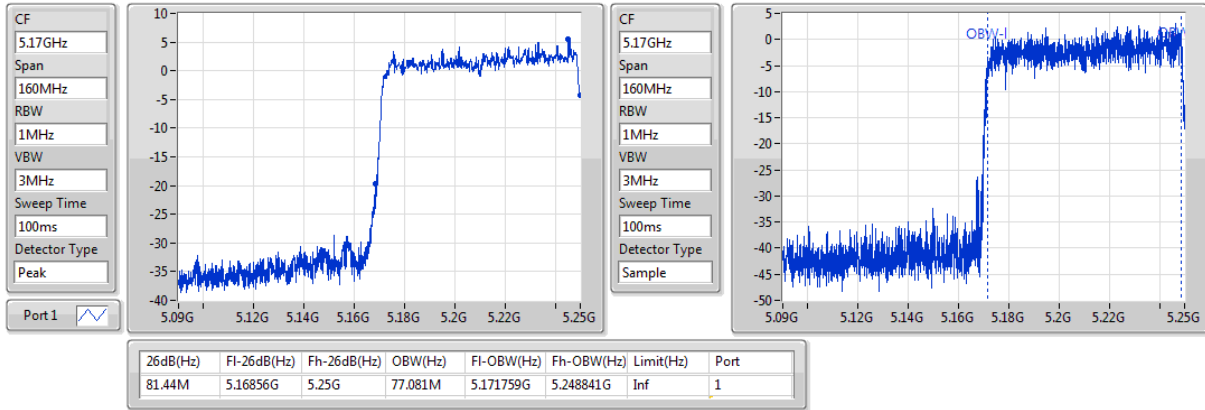


802.11ax HEW160\_Nss1,(MCS0)\_1TX

EBW

5250MHz Straddle 5.15-5.25GHz

19/04/2019

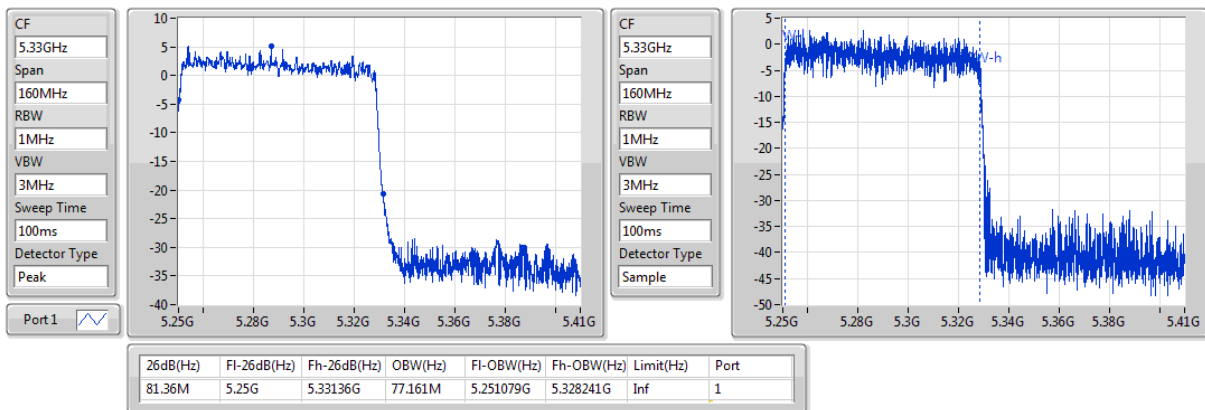


802.11ax HEW160\_Nss1,(MCS0)\_1TX

EBW

5250MHz Straddle 5.25-5.35GHz

19/04/2019





**For Outdoor use for 5G Band 1:  
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	77.081M	77M1D1D	81.28M	77.001M
5.25-5.35GHz	-	-	-	-	-
802.11ax HEW160_Nss2,(MCS0)_2TX	81.44M	77.001M	77MOD1D	80.8M	76.922M

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

**Max-OBW** = Maximum 99% occupied bandwidth;

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

**Min-OBW** = Minimum 99% occupied bandwidth;



**Result**

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
802.11ax HEW160_Nss2,(MCS0)_2TX	-	-	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	Inf	81.28M	77.081M	81.92M	77.001M
5250MHz Straddle 5.25-5.35GHz	Pass	Inf	81.44M	77.001M	80.8M	76.922M

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

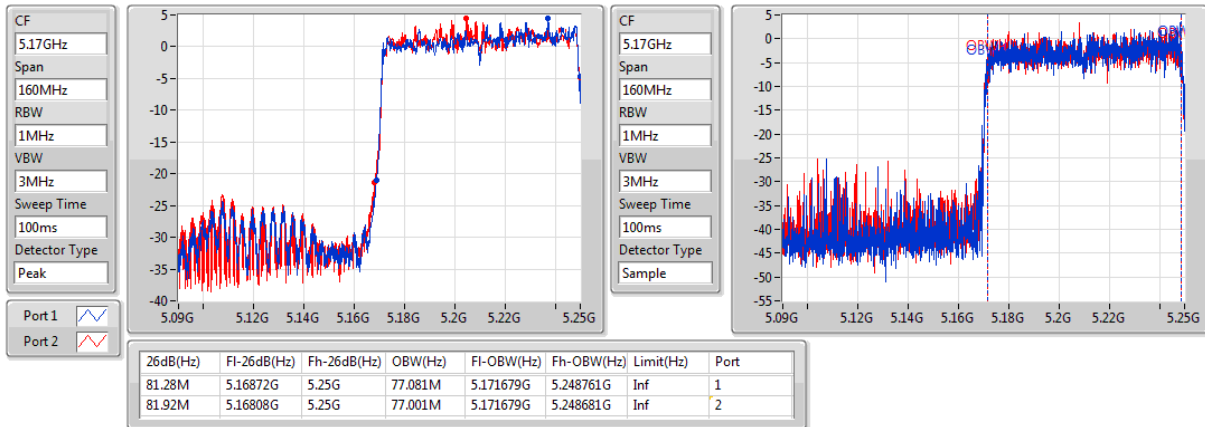
**Port X-OBW** = Port X 99% occupied bandwidth;

802.11ax HEW160\_Nss2,(MCS0)\_2TX

EBW

5250MHz Straddle 5.15-5.25GHz

19/04/2019

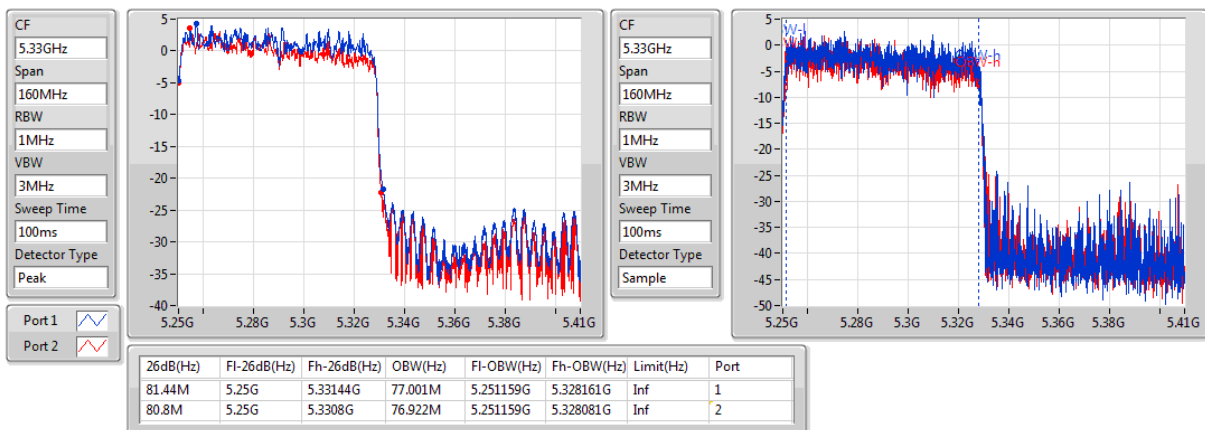


802.11ax HEW160\_Nss2,(MCS0)\_2TX

EBW

5250MHz Straddle 5.25-5.35GHz

19/04/2019





**For Outdoor use for 5G Band 1:  
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	81.36M	77.161M	77M2D1D	80.88M	77.081M
5.25-5.35GHz	-	-	-	-	-
802.11ax HEW160_Nss1,(MCS0)_4TX	81.6M	77.161M	77M2D1D	80.96M	76.922M

**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 HEW160_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	Inf	81.36M	77.081M	80.88M	77.161M	80.88M	77.081M	81.04M	77.161M
5250MHz Straddle 5.25-5.35GHz	Pass	Inf	81.12M	76.922M	80.96M	77.081M	81.6M	77.161M	81.2M	77.161M

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

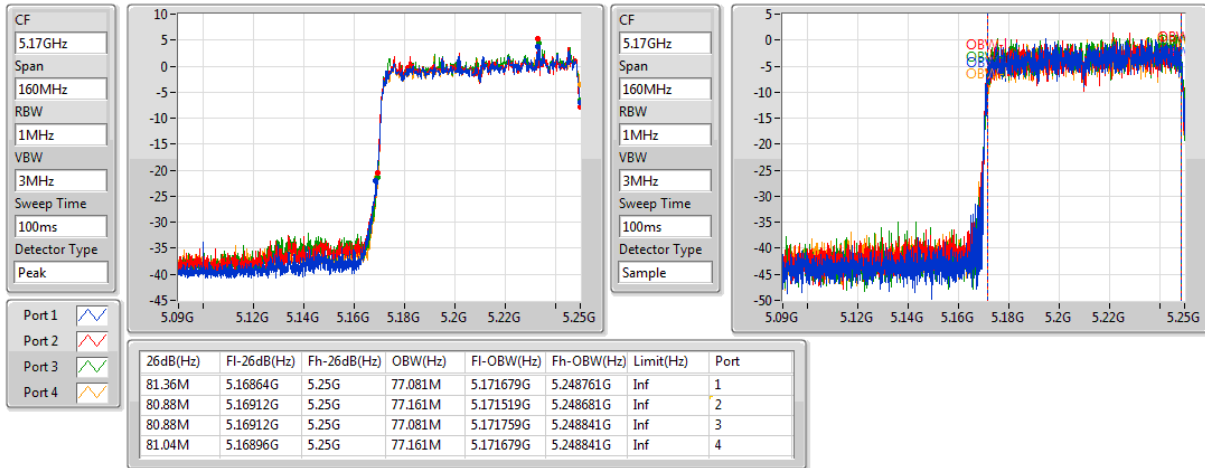
**Port X-OBW** = Port X 99% occupied bandwidth;

802.11ax HEW160\_Nss1,(MCS0)\_4TX

EBW

5250MHz Straddle 5.15-5.25GHz

20/04/2019

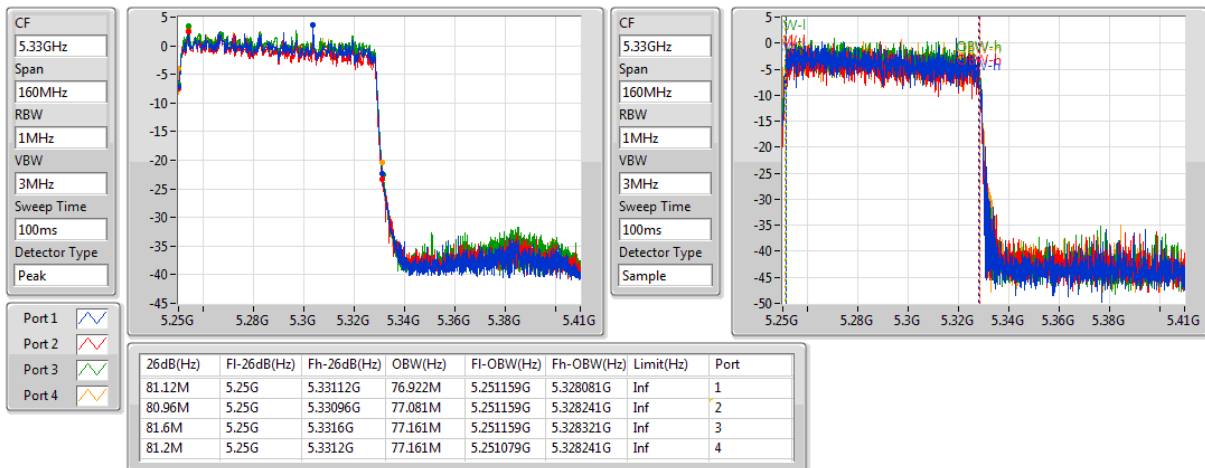


802.11ax HEW160\_Nss1,(MCS0)\_4TX

EBW

5250MHz Straddle 5.25-5.35GHz

20/04/2019





**For Outdoor use for 5G Band 1:  
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	80.96M	77.161M	77M2D1D	80.8M	76.922M
5.25-5.35GHz	-	-	-	-	-
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	81.68M	77.321M	77M3D1D	81.04M	76.922M

**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 HEW160-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	Inf	80.96M	77.001M	80.8M	77.161M	80.88M	77.161M	80.8M	76.922M
5250MHz Straddle 5.25-5.35GHz	Pass	Inf	81.44M	76.922M	81.04M	77.161M	81.68M	77.321M	81.52M	77.241M

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

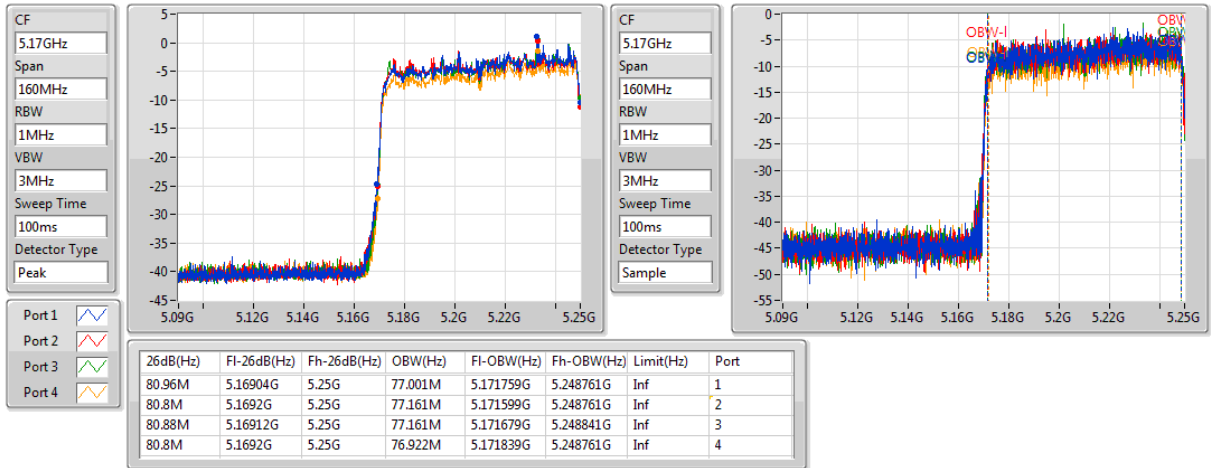
**Port X-OBW** = Port X 99% occupied bandwidth;

802.11ax HEW160-BF\_Nss1,(MCS0)\_4TX

EBW

5250MHz Straddle 5.15-5.25GHz

15/05/2019

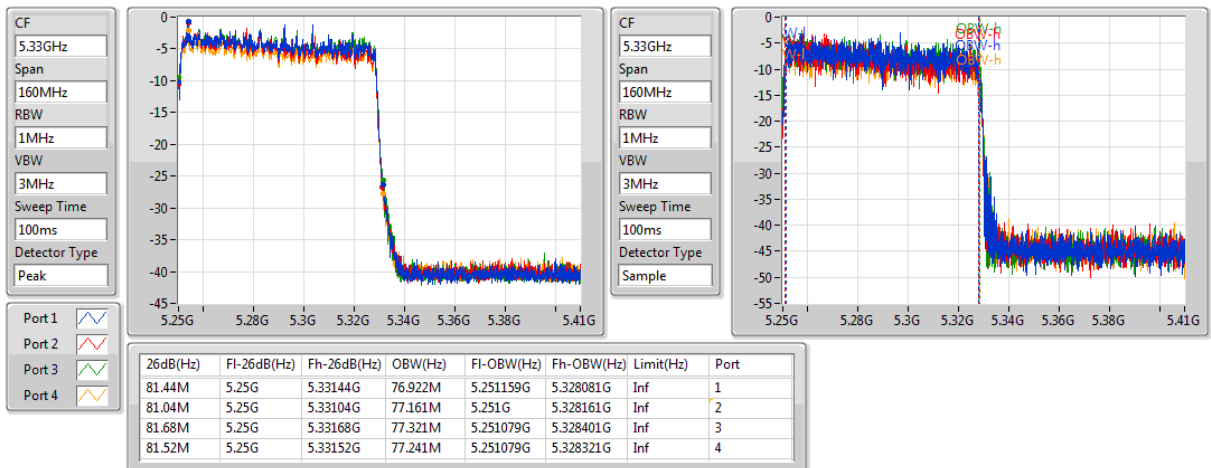


802.11ax HEW160-BF\_Nss1,(MCS0)\_4TX

EBW

5250MHz Straddle 5.25-5.35GHz

15/05/2019





**For Outdoor use for 5G Band 1:  
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	77.321M	77M3D1D	80.56M	77.081M
5.25-5.35GHz	-	-	-	-	-
802.11ax HEW160_Nss4,(MCS0)_4TX	82.08M	77.161M	77M2D1D	81.04M	77.081M

**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 HEW160_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	Inf	81.04M	77.241M	81.68M	77.321M	80.56M	77.081M	80.88M	77.081M
5250MHz Straddle 5.25-5.35GHz	Pass	Inf	81.68M	77.081M	81.04M	77.081M	82.08M	77.081M	82.08M	77.161M

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

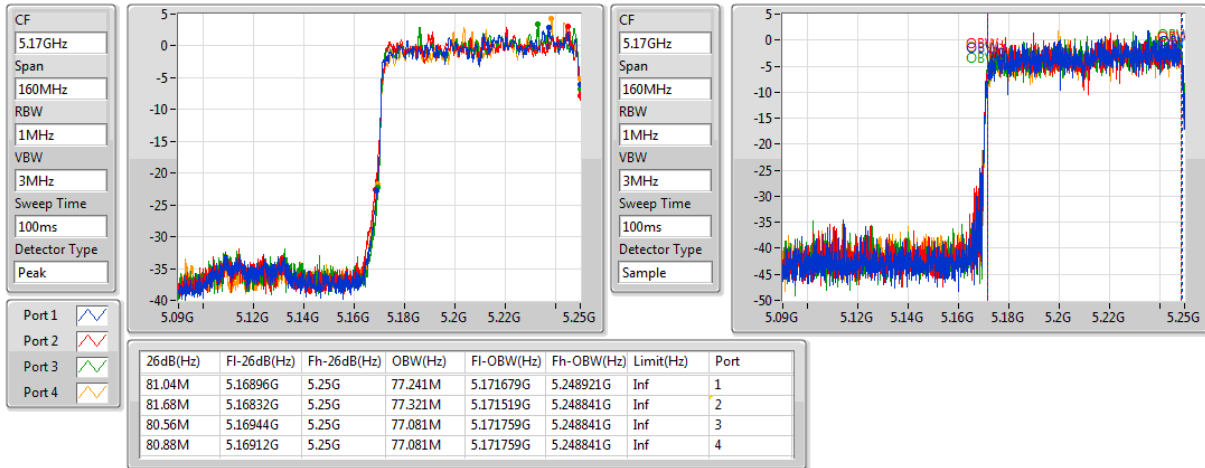
**Port X-OBW** = Port X 99% occupied bandwidth;

802.11ax HEW160\_Nss4,(MCS0)\_4TX

EBW

5250MHz Straddle 5.15-5.25GHz

22/04/2019

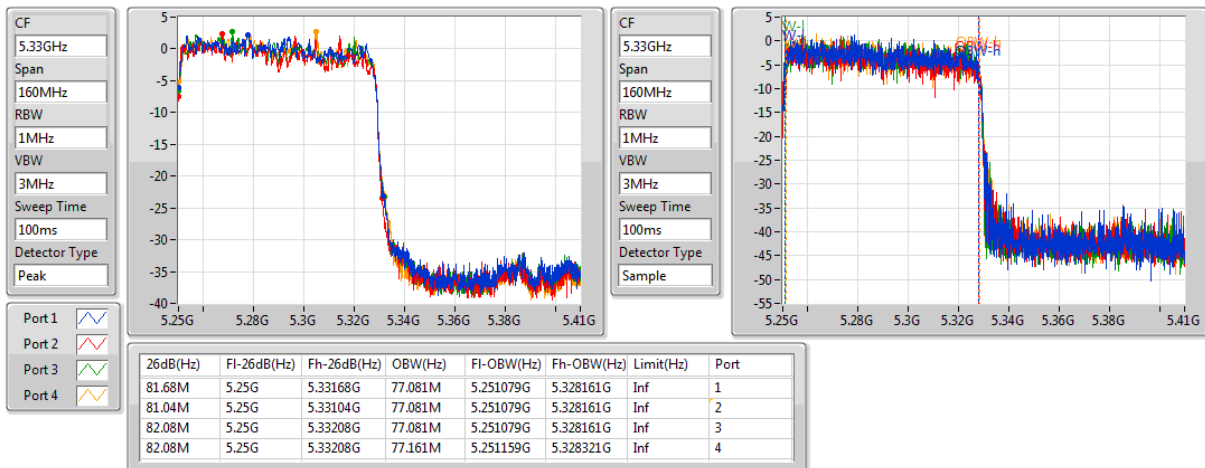


802.11ax HEW160\_Nss4,(MCS0)\_4TX

EBW

5250MHz Straddle 5.25-5.35GHz

22/04/2019





**For Indoor use for 5G Band 1 and Indoor/Outdoor use for 5G Band 2 ~ Band 4:  
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	81.04M	77.321M	77M3D1D	81.04M	77.321M
5.25-5.35GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	28.475M	16.717M	16M7D1D	26.875M	16.617M
802.11ax HEW20_Nss1,(MCS0)_1TX	37.325M	19.065M	19M1D1D	26.175M	18.966M
802.11ax HEW40_Nss1,(MCS0)_1TX	59.4M	37.781M	37M8D1D	39.95M	37.531M
802.11ax HEW80_Nss1,(MCS0)_1TX	81.8M	77.161M	77M2D1D	81.8M	77.161M
802.11ax HEW160_Nss1,(MCS0)_1TX	81.36M	77.001M	77M0D1D	81.36M	77.001M
5.47-5.725GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	43.075M	19.215M	19M2D1D	21.5M	14.648M
802.11ax HEW20_Nss1,(MCS0)_1TX	44.55M	19.74M	19M7D1D	21.65M	14.603M
802.11ax HEW40_Nss1,(MCS0)_1TX	80.15M	38.381M	38M4D1D	39.95M	34.808M
802.11ax HEW80_Nss1,(MCS0)_1TX	156.6M	77.561M	77M6D1D	81.8M	74.063M
802.11ax HEW160_Nss1,(MCS0)_1TX	264.4M	155.522M	156MD1D	264.4M	155.522M
5.725-5.85GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	3.14M	11.214M	11M2D1D	3.14M	11.214M
802.11ax HEW20_Nss1,(MCS0)_1TX	4.5M	11.174M	11M2D1D	4.5M	11.174M
802.11ax HEW40_Nss1,(MCS0)_1TX	3.78M	26.447M	26M4D1D	3.78M	26.447M
802.11ax HEW80_Nss1,(MCS0)_1TX	3.38M	36.902M	36M9D1D	3.38M	36.902M

**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;

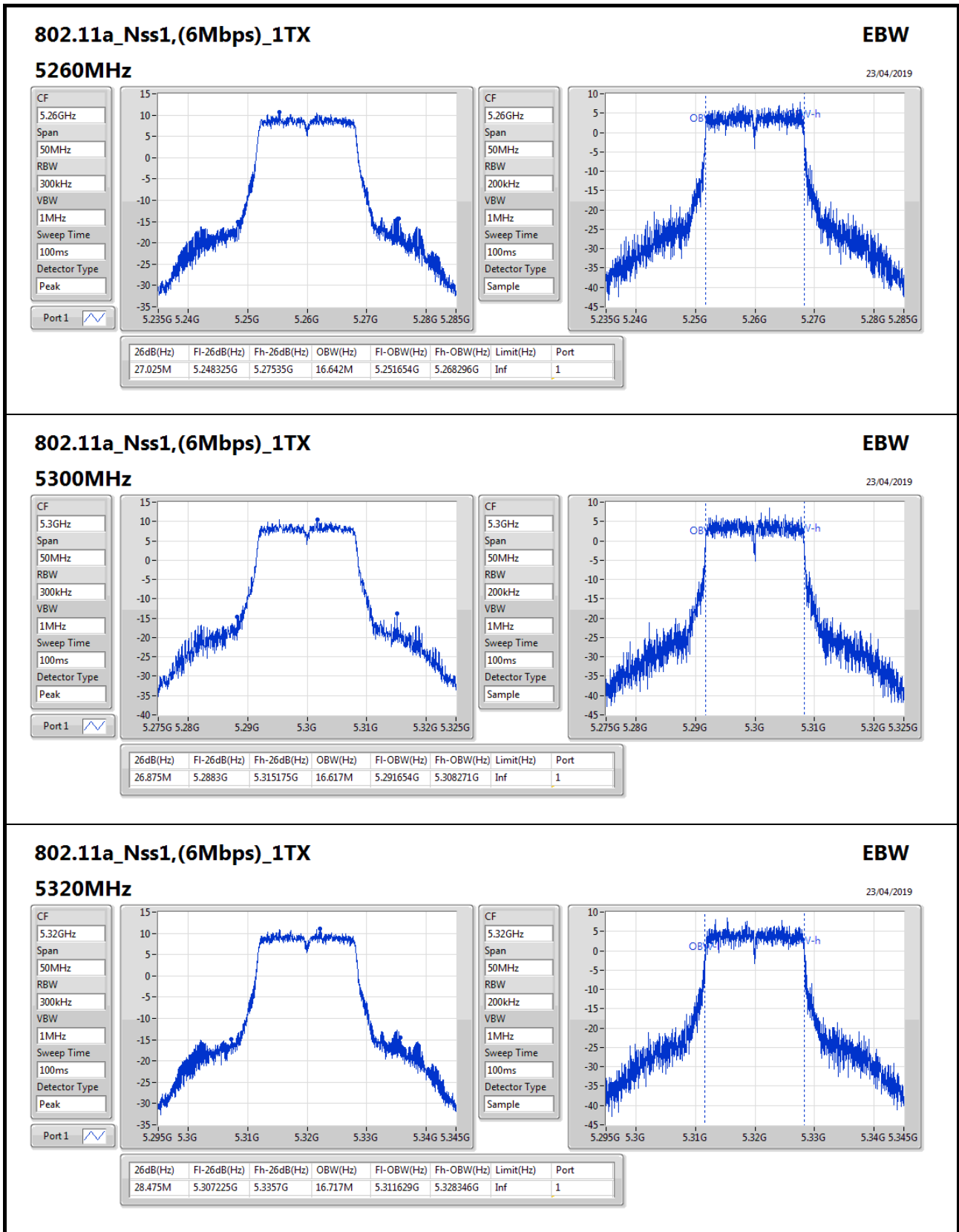
**Min-OBW** = Minimum 99% occupied bandwidth;



**Result**

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
802.11a_Nss1,(6Mbps)_1TX	-	-	-	-
5260MHz	Pass	Inf	27.025M	16.642M
5300MHz	Pass	Inf	26.875M	16.617M
5320MHz	Pass	Inf	28.475M	16.717M
5500MHz	Pass	Inf	21.55M	16.592M
5580MHz	Pass	Inf	43.075M	19.215M
5700MHz	Pass	Inf	21.5M	16.542M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	24.93M	14.648M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	3.14M	11.214M
802.11ax HEW20_Nss1,(MCS0)_1TX	-	-	-	-
5260MHz	Pass	Inf	26.175M	18.966M
5300MHz	Pass	Inf	37.325M	19.065M
5320MHz	Pass	Inf	29.7M	18.991M
5500MHz	Pass	Inf	23.725M	18.991M
5580MHz	Pass	Inf	44.55M	19.74M
5700MHz	Pass	Inf	21.65M	18.941M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	26.265M	14.603M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	4.5M	11.174M
802.11ax HEW40_Nss1,(MCS0)_1TX	-	-	-	-
5270MHz	Pass	Inf	59.4M	37.781M
5310MHz	Pass	Inf	39.95M	37.531M
5510MHz	Pass	Inf	40M	37.631M
5550MHz	Pass	Inf	80.15M	38.381M
5670MHz	Pass	Inf	39.95M	37.581M
5710MHz Straddle 5.47-5.725GHz	Pass	Inf	55.125M	34.808M
5710MHz Straddle 5.725-5.85GHz	Pass	500k	3.78M	26.447M
802.11ax HEW80_Nss1,(MCS0)_1TX	-	-	-	-
5290MHz	Pass	Inf	81.8M	77.161M
5530MHz	Pass	Inf	81.8M	77.161M
5610MHz	Pass	Inf	156.6M	77.561M
5690MHz Straddle 5.47-5.725GHz	Pass	Inf	124.425M	74.063M
5690MHz Straddle 5.725-5.85GHz	Pass	500k	3.38M	36.902M
802.11ax HEW160_Nss1,(MCS0)_1TX	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	Inf	81.04M	77.321M
5250MHz Straddle 5.25-5.35GHz	Pass	Inf	81.36M	77.001M
5570MHz	Pass	Inf	264.4M	155.522M

**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**

23/04/2019

**5320MHz**

CF: 5.32GHz

Span: 50MHz

RBW: 300kHz

VBW: 1MHz

Sweep Time: 100ms

Detector Type: Peak

Port 1

CF: 5.32GHz

Span: 50MHz

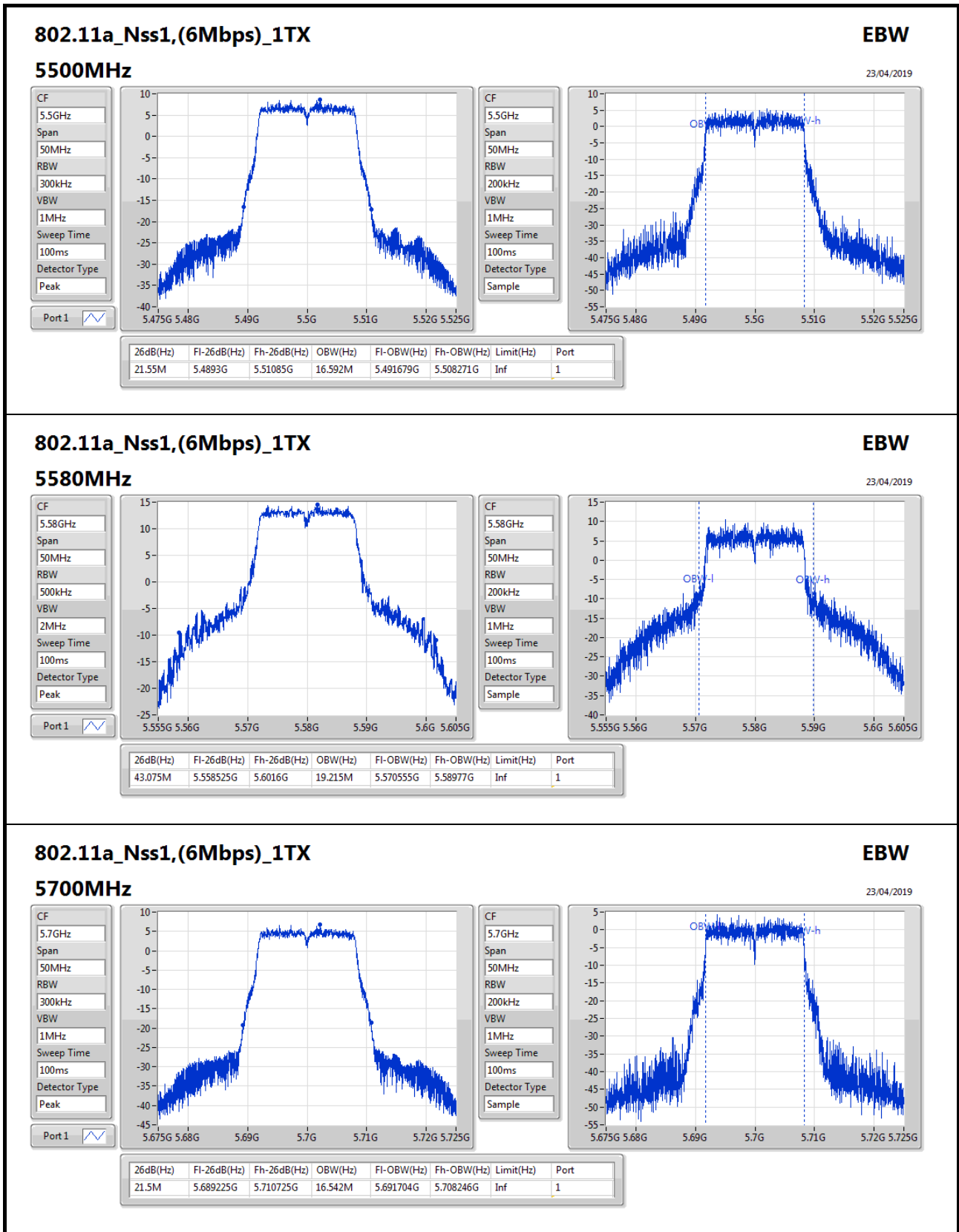
RBW: 200kHz

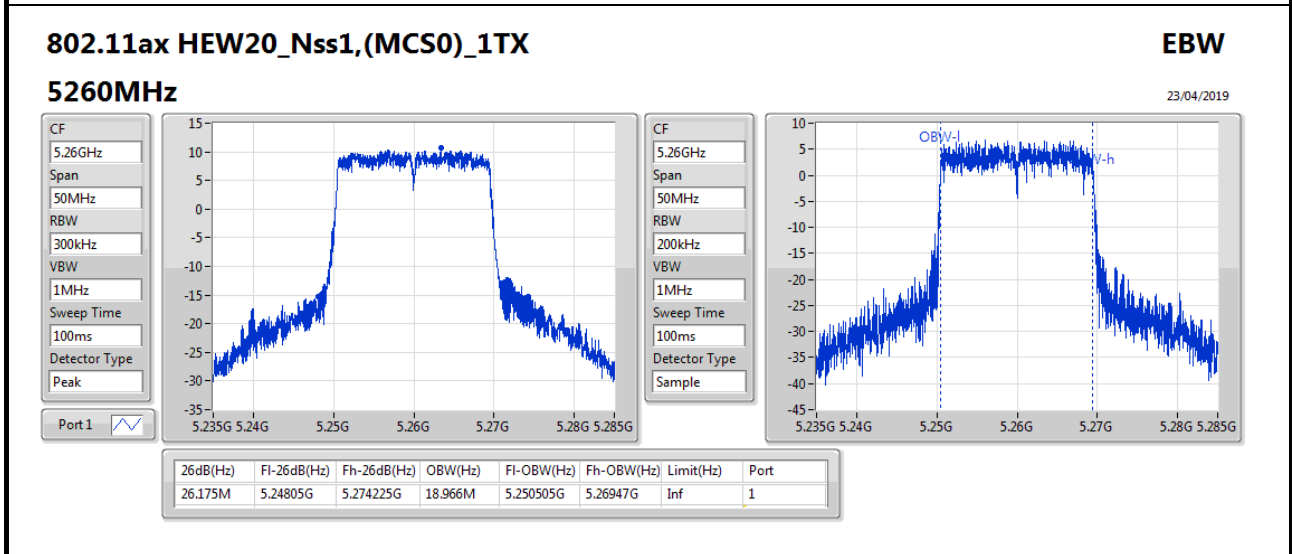
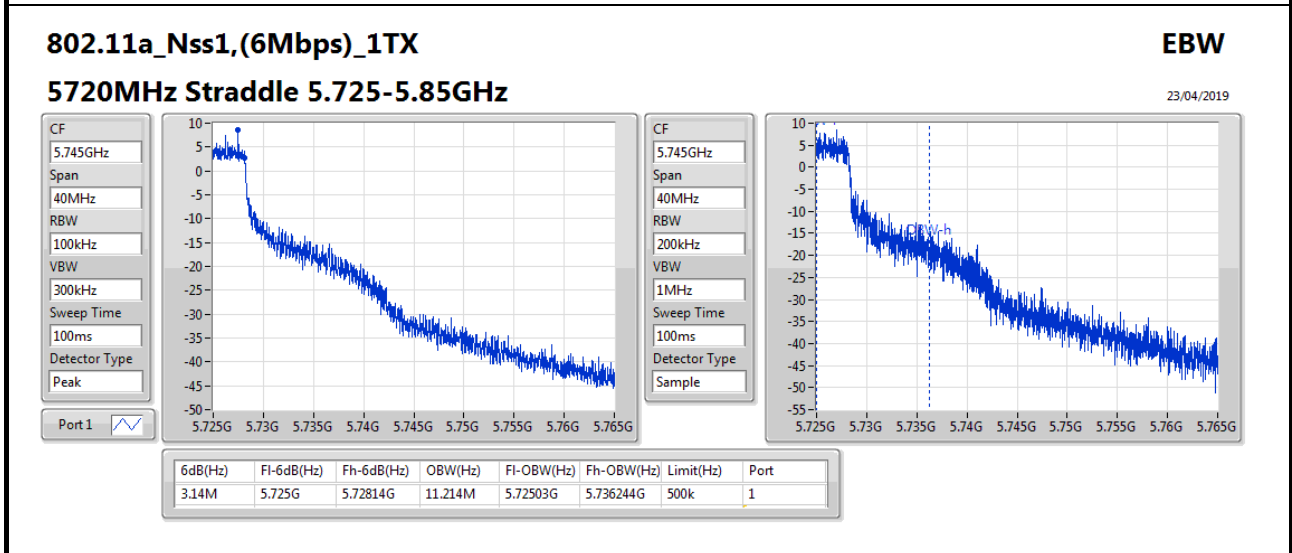
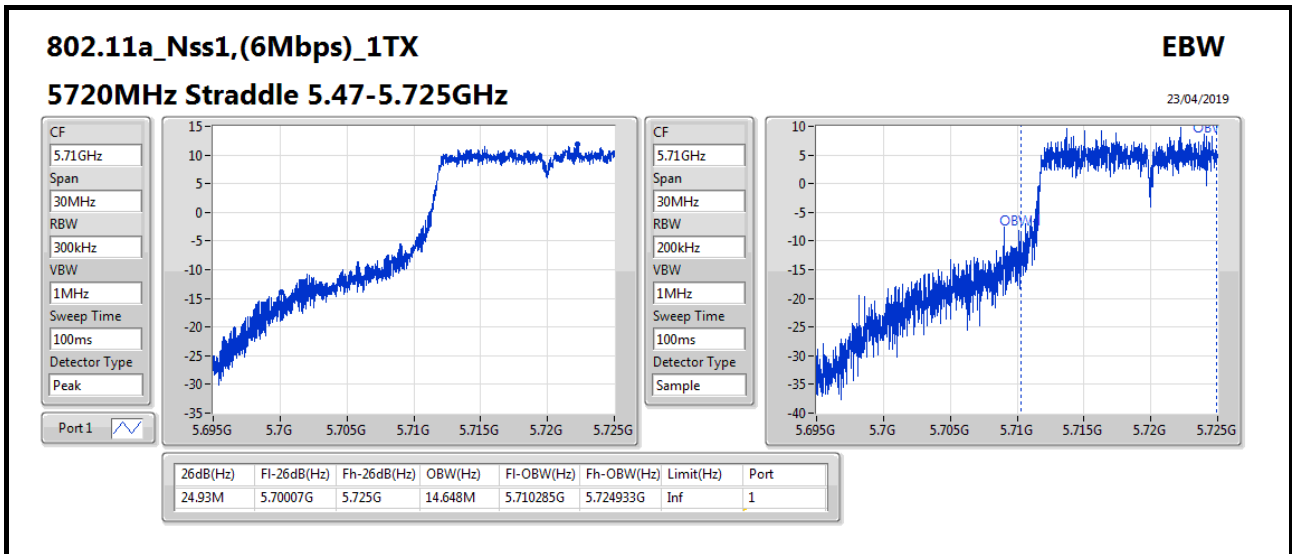
VBW: 1MHz

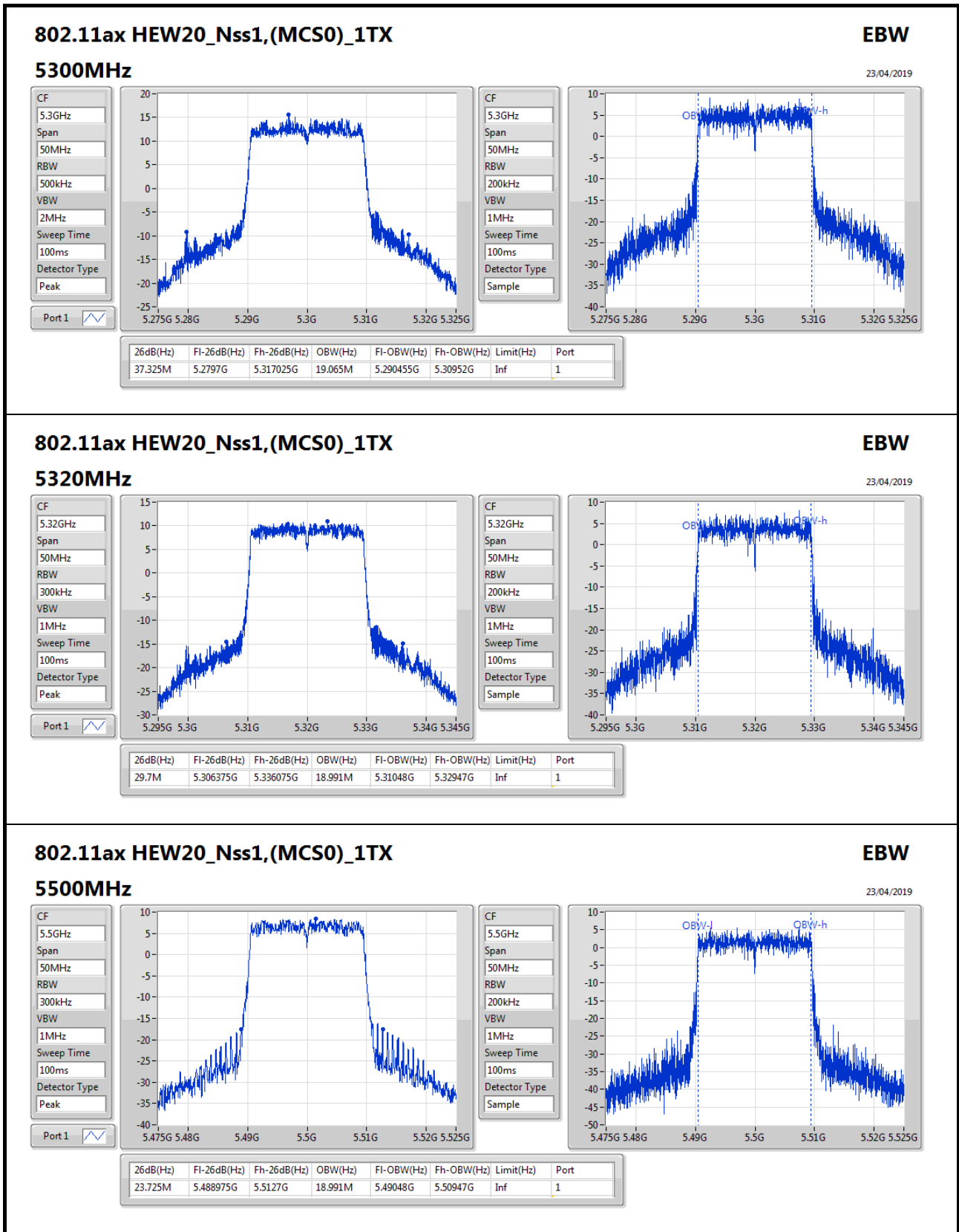
Sweep Time: 100ms

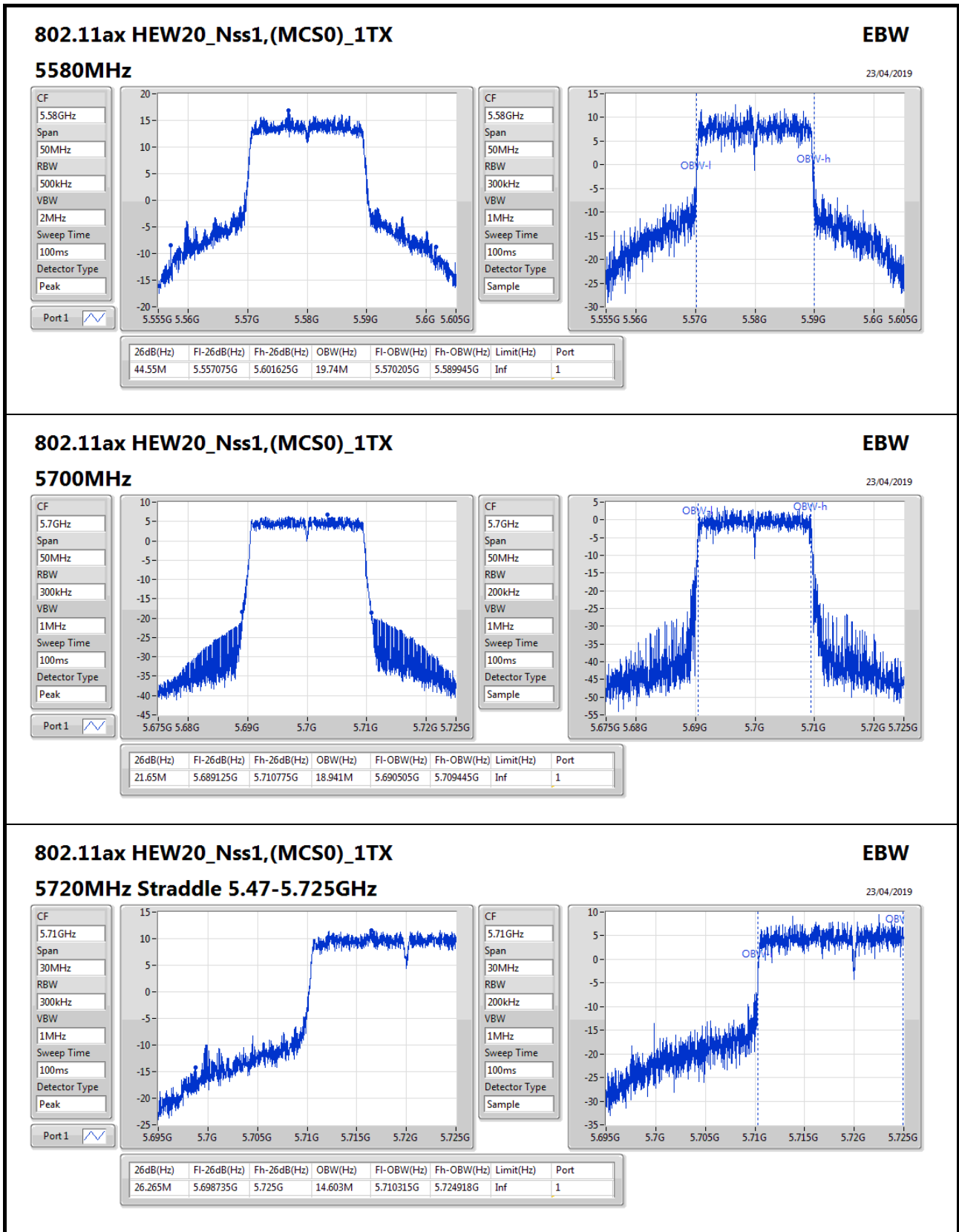
Detector Type: Sample

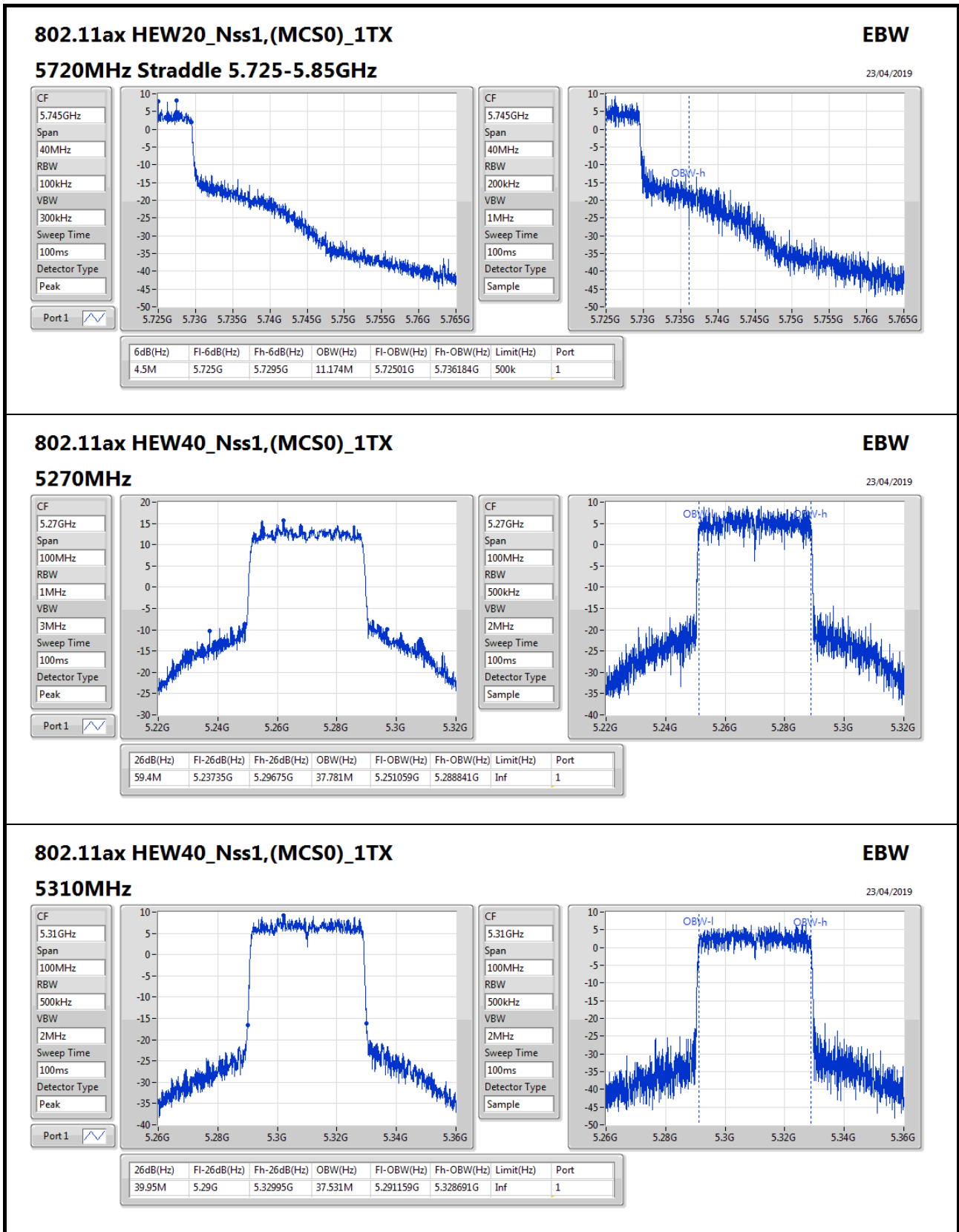


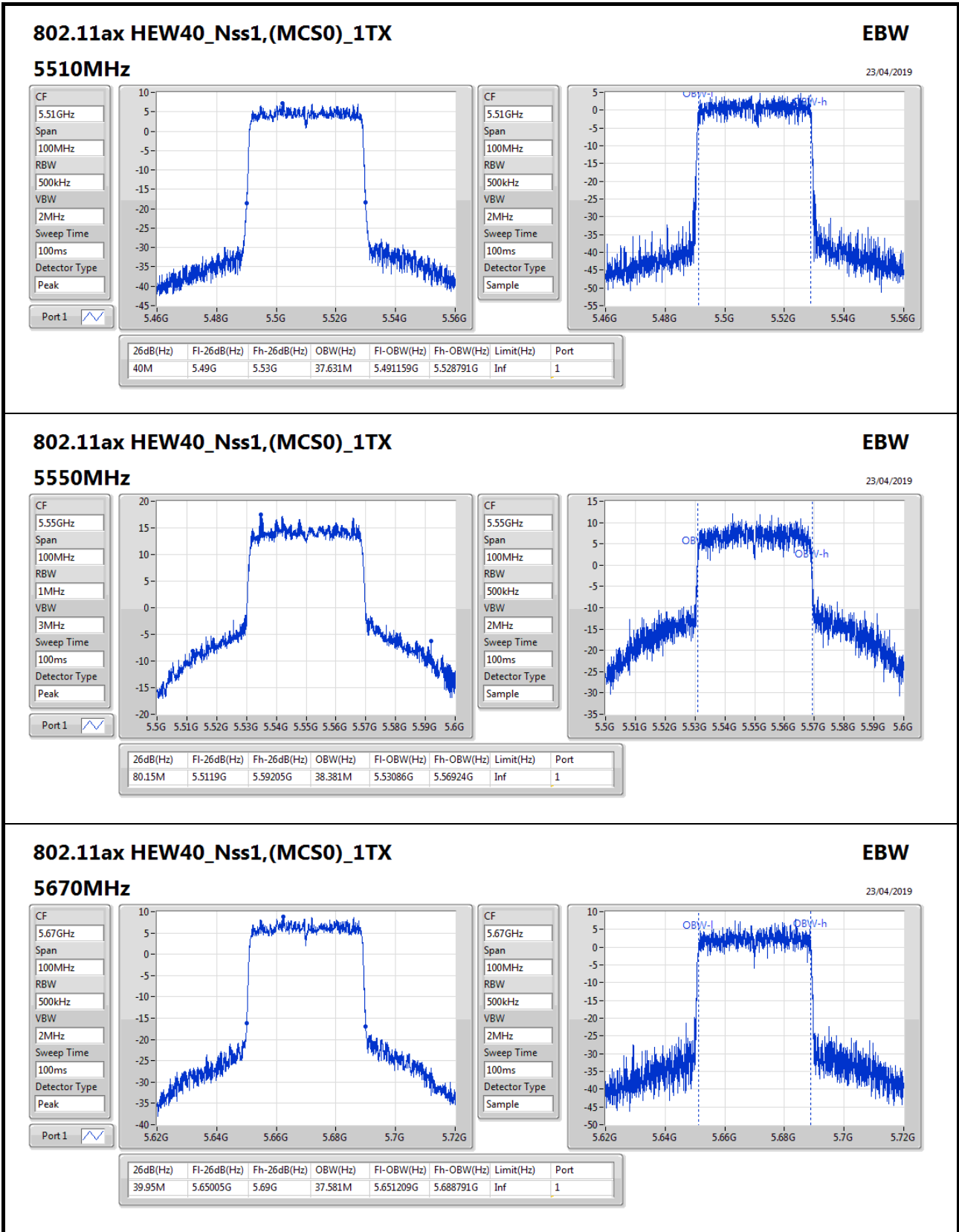






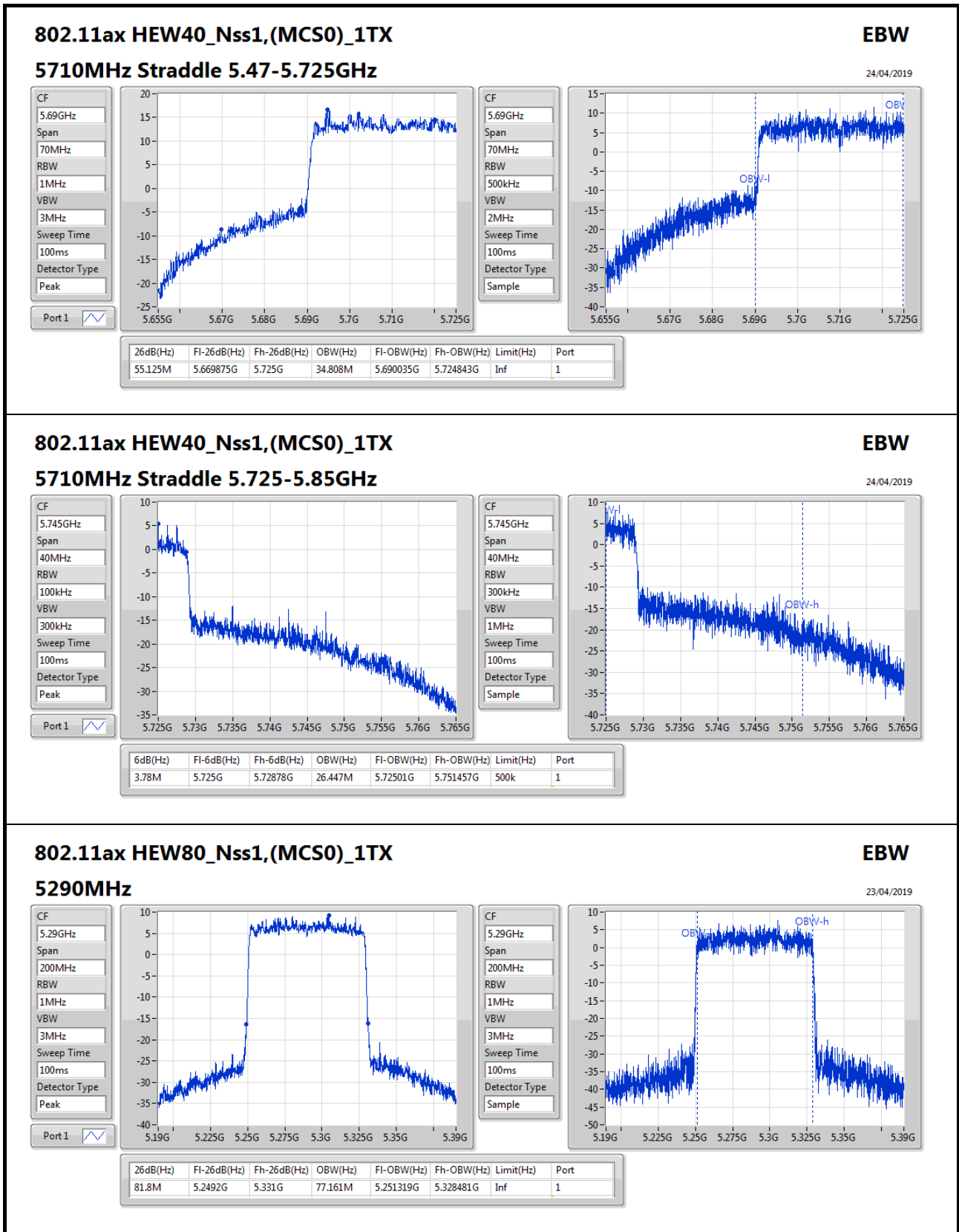





**802.11ax HEW40\_Nss1,(MCS0)\_1TX**
**EBW**
**5670MHz**
23/04/2019

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

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



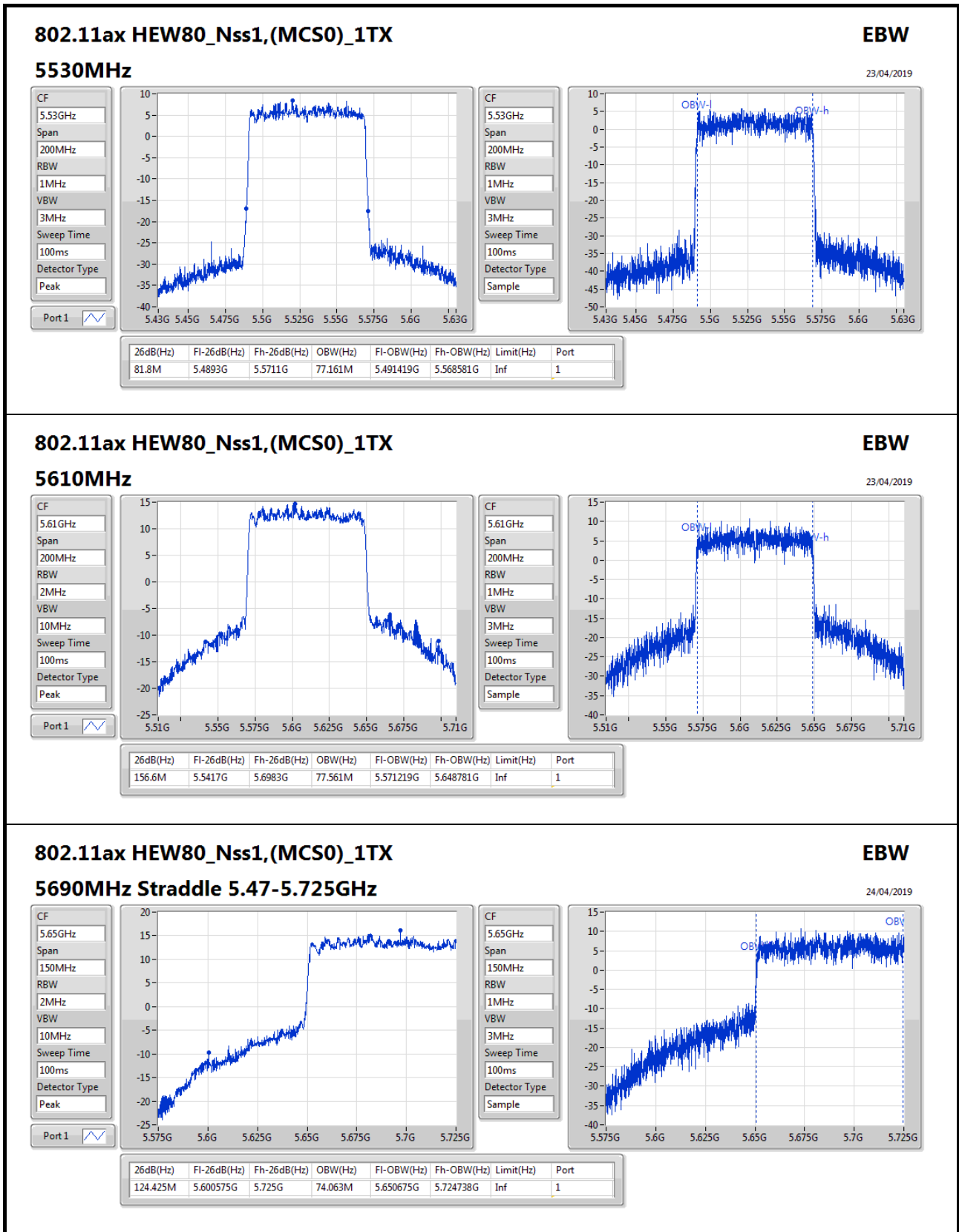
### 802.11ax HEW80\_Nss1,(MCS0)\_1TX

#### 5290MHz

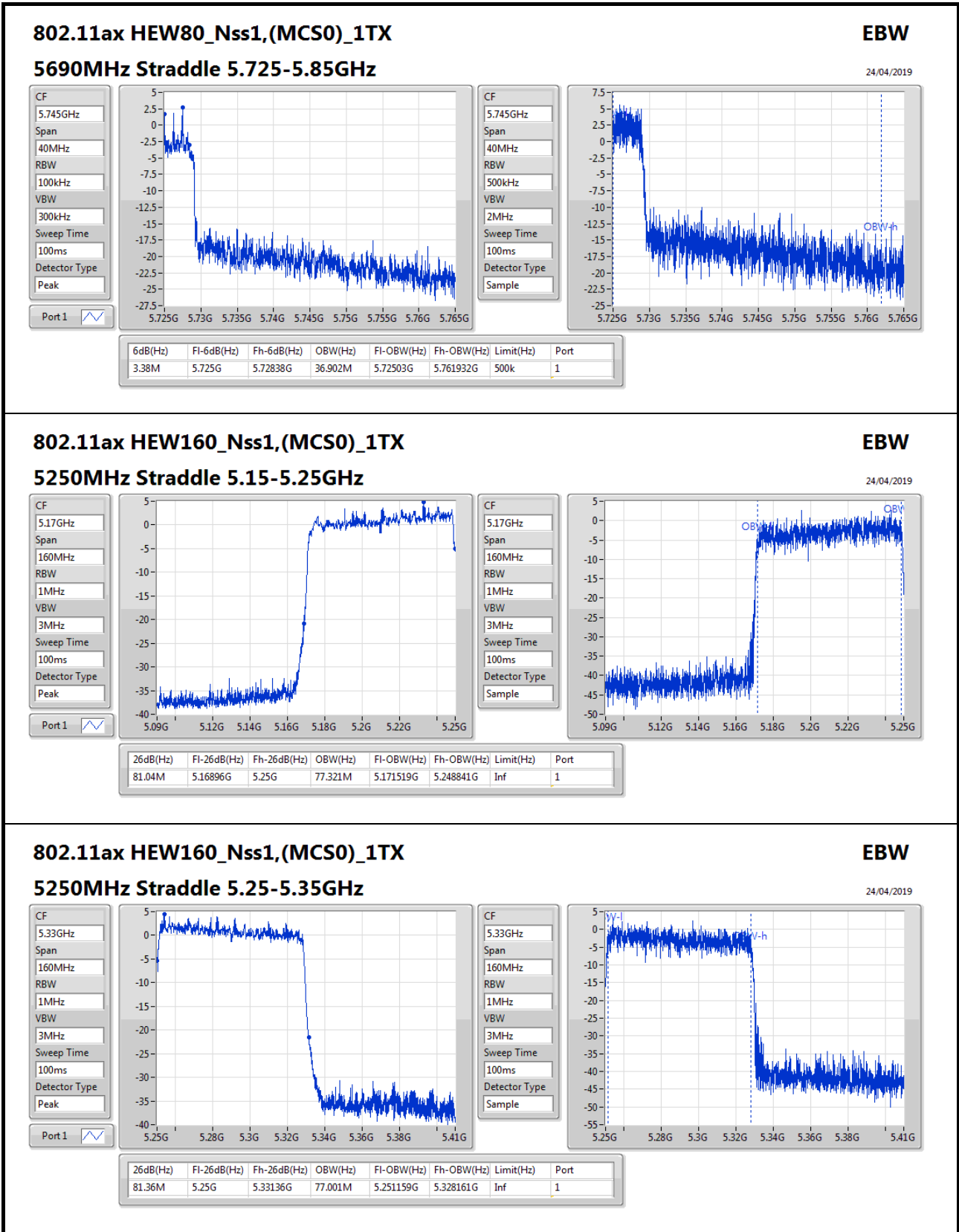
**EBW**  
23/04/2019

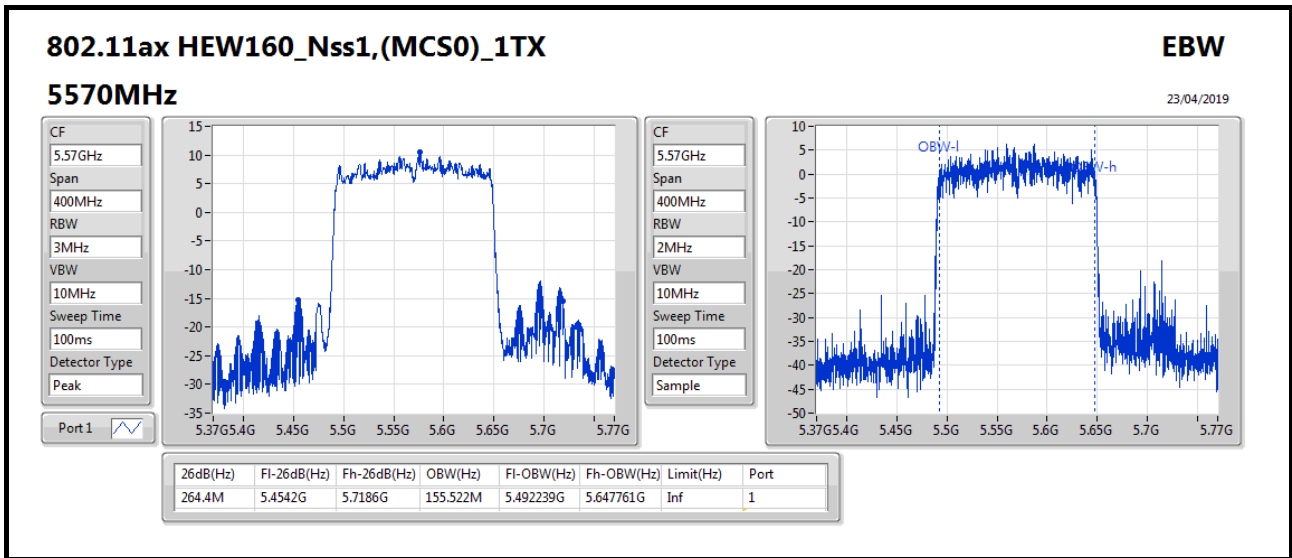
CF: 5.29GHz  
Span: 200MHz  
RBW: 1MHz  
VBW: 3MHz  
Sweep Time: 100ms  
Detector Type: Peak

CF: 5.29GHz  
Span: 200MHz  
RBW: 1MHz  
VBW: 3MHz  
Sweep Time: 100ms  
Detector Type: Sample











**For Indoor use for 5G Band 1 and Indoor/Outdoor use for 5G Band 2 ~ Band 4:  
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	77.161M	77M2D1D	81.36M	77.081M
5.25-5.35GHz	-	-	-	-	-
802.11ax HEW20_Nss2,(MCS0)_2TX	31.225M	18.991M	19M0D1D	22.025M	18.966M
802.11ax HEW40_Nss2,(MCS0)_2TX	72.6M	37.681M	37M7D1D	39.9M	37.581M
802.11ax HEW80_Nss2,(MCS0)_2TX	81.7M	77.061M	77M1D1D	81.6M	76.862M
802.11ax HEW160_Nss2,(MCS0)_2TX	81.52M	77.161M	77M2D1D	80.96M	77.001M
5.47-5.725GHz	-	-	-	-	-
802.11ax HEW20_Nss2,(MCS0)_2TX	29.175M	19.04M	19M0D1D	21.425M	14.558M
802.11ax HEW40_Nss2,(MCS0)_2TX	74.05M	37.631M	37M6D1D	39.9M	33.723M
802.11ax HEW80_Nss2,(MCS0)_2TX	92.7M	77.161M	77M2D1D	81.4M	73.238M
802.11ax HEW160_Nss2,(MCS0)_2TX	165.6M	155.522M	156MD1D	165.2M	155.322M
5.725-5.85GHz	-	-	-	-	-
802.11ax HEW20_Nss2,(MCS0)_2TX	4.46M	9.755M	9M76D1D	4.46M	9.575M
802.11ax HEW40_Nss2,(MCS0)_2TX	3.74M	21.189M	21M2D1D	3.7M	18.171M
802.11ax HEW80_Nss2,(MCS0)_2TX	3.8M	30.005M	30M0D1D	3.72M	29.665M

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

**Max-OBW** = Maximum 99% occupied bandwidth;

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

**Min-OBW** = Minimum 99% occupied bandwidth;

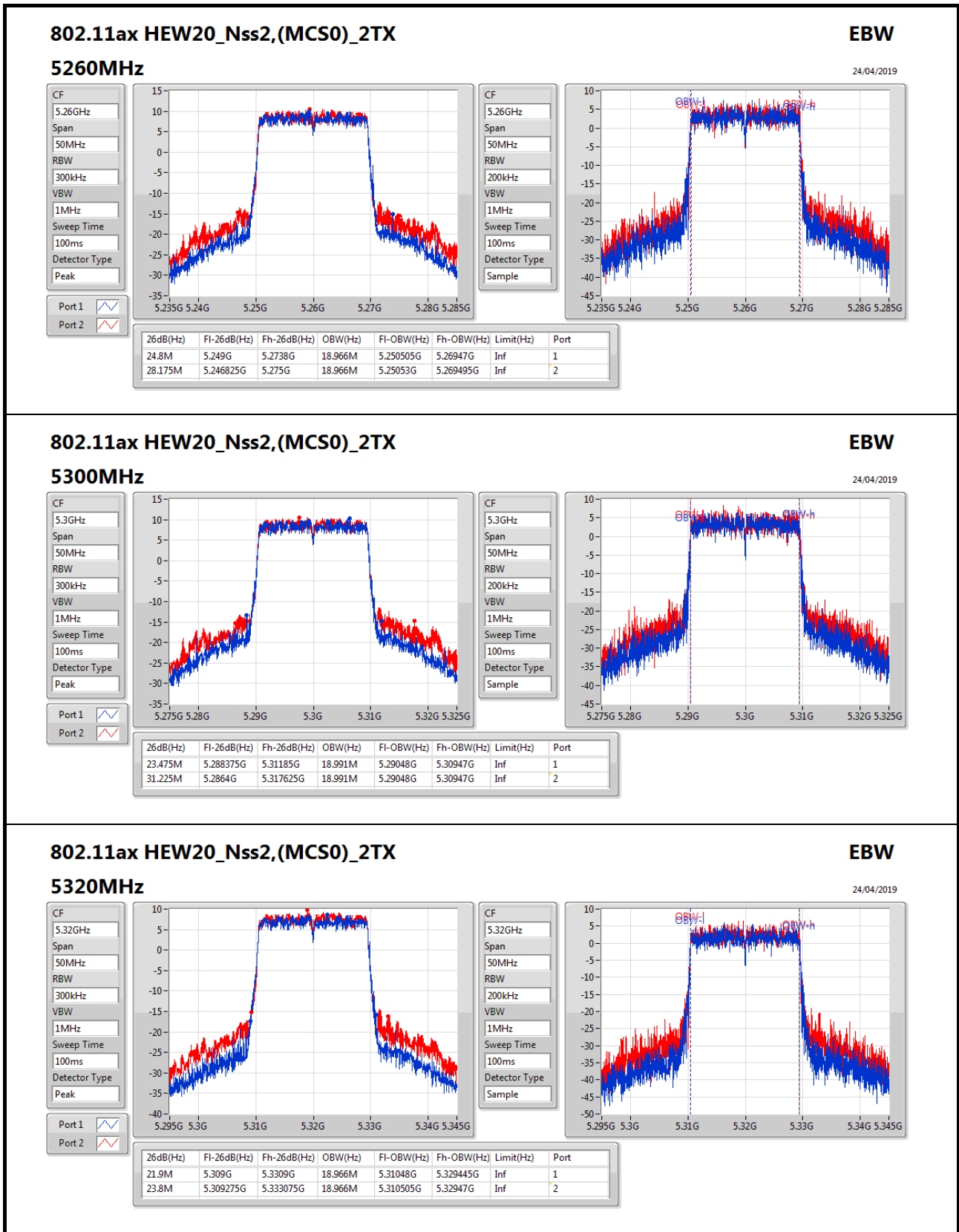


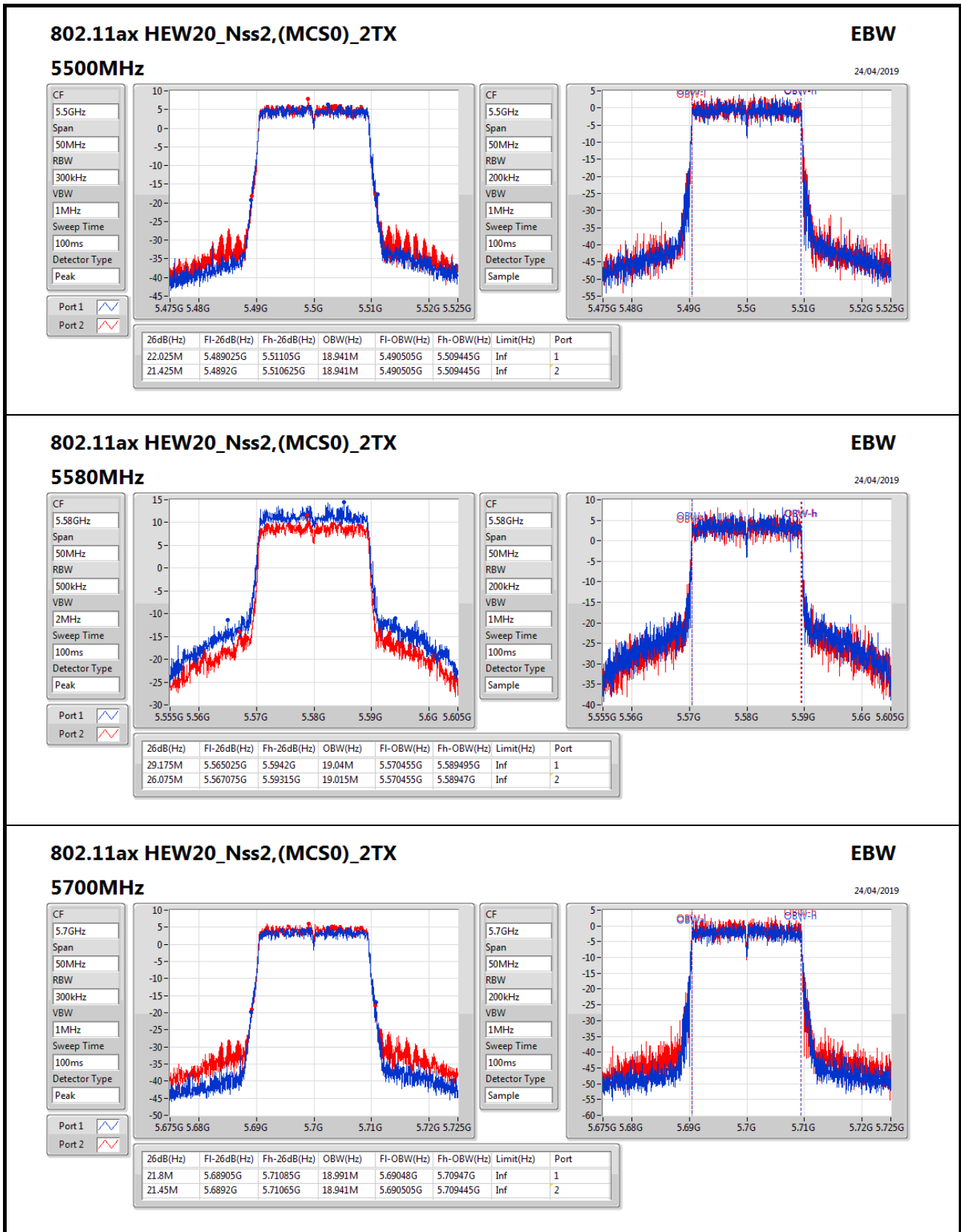
**Result**

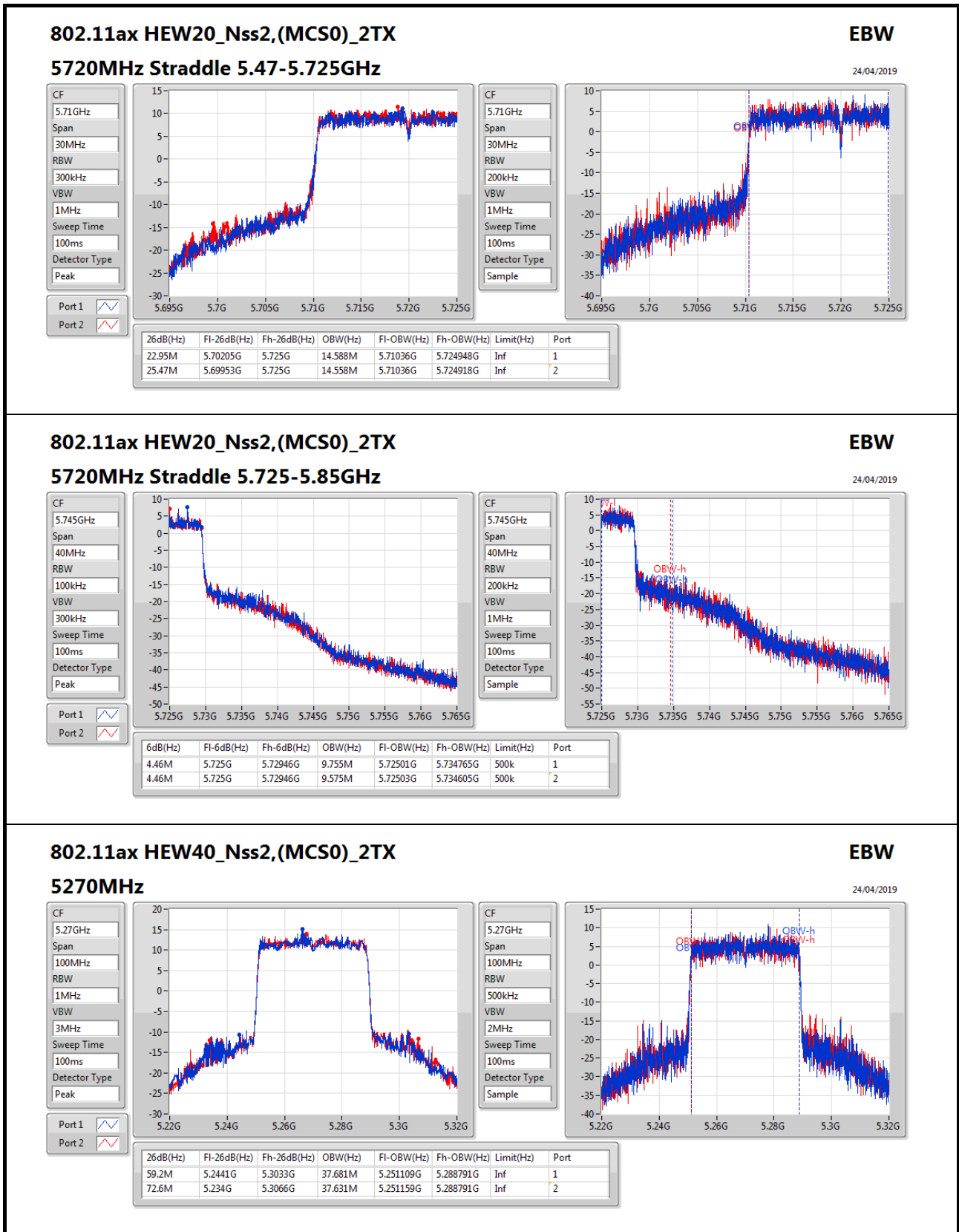
Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
802.11ax HEW20_Nss2,(MCS0)_2TX	-	-	-	-	-	-
5260MHz	Pass	Inf	24.8M	18.966M	28.175M	18.966M
5300MHz	Pass	Inf	23.475M	18.991M	31.225M	18.991M
5320MHz	Pass	Inf	22.025M	18.966M	23.975M	18.966M
5500MHz	Pass	Inf	22.025M	18.941M	21.425M	18.941M
5580MHz	Pass	Inf	29.175M	19.04M	26.075M	19.015M
5700MHz	Pass	Inf	21.8M	18.991M	21.45M	18.941M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	22.95M	14.588M	25.47M	14.558M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	4.46M	9.755M	4.46M	9.575M
802.11ax HEW40_Nss2,(MCS0)_2TX	-	-	-	-	-	-
5270MHz	Pass	Inf	59.2M	37.681M	72.6M	37.631M
5310MHz	Pass	Inf	40M	37.631M	39.9M	37.581M
5510MHz	Pass	Inf	39.9M	37.481M	40.05M	37.531M
5550MHz	Pass	Inf	70.55M	37.631M	74.05M	37.631M
5670MHz	Pass	Inf	40M	37.581M	39.95M	37.481M
5710MHz Straddle 5.47-5.725GHz	Pass	Inf	47.25M	33.758M	42.14M	33.723M
5710MHz Straddle 5.725-5.85GHz	Pass	500k	3.7M	21.189M	3.74M	18.171M
802.11ax HEW80_Nss2,(MCS0)_2TX	-	-	-	-	-	-
5290MHz	Pass	Inf	81.6M	76.862M	81.7M	77.061M
5530MHz	Pass	Inf	81.9M	76.862M	81.4M	76.862M
5610MHz	Pass	Inf	85.3M	77.161M	81.4M	77.061M
5690MHz Straddle 5.47-5.725GHz	Pass	Inf	92.55M	73.238M	92.7M	73.313M
5690MHz Straddle 5.725-5.85GHz	Pass	500k	3.8M	29.665M	3.72M	30.005M
802.11ax HEW160_Nss2,(MCS0)_2TX	-	-	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	Inf	81.36M	77.161M	81.92M	77.081M
5250MHz Straddle 5.25-5.35GHz	Pass	Inf	81.52M	77.001M	80.96M	77.161M
5570MHz	Pass	Inf	165.6M	155.322M	165.2M	155.522M

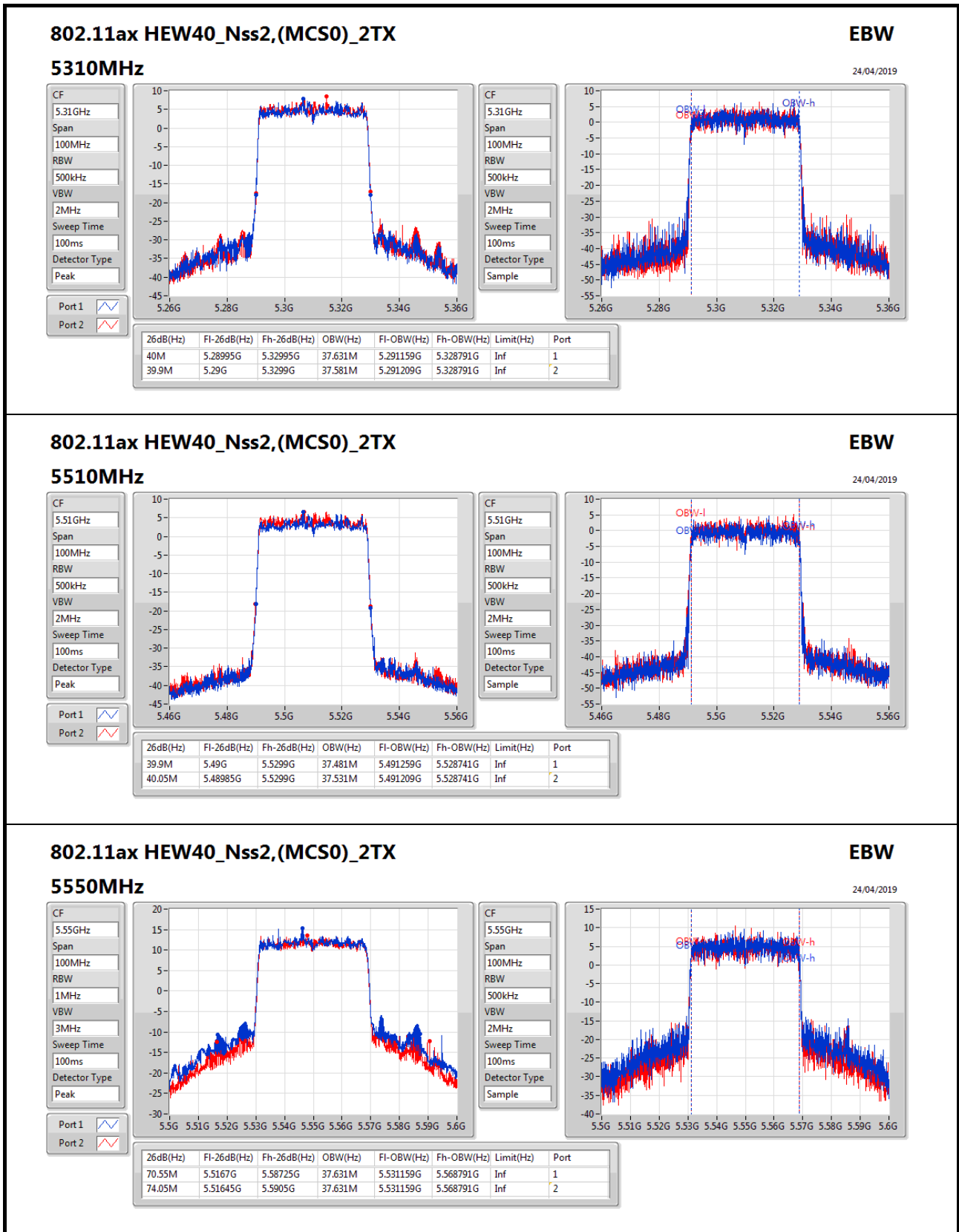
**Port X-N dB** = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band

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

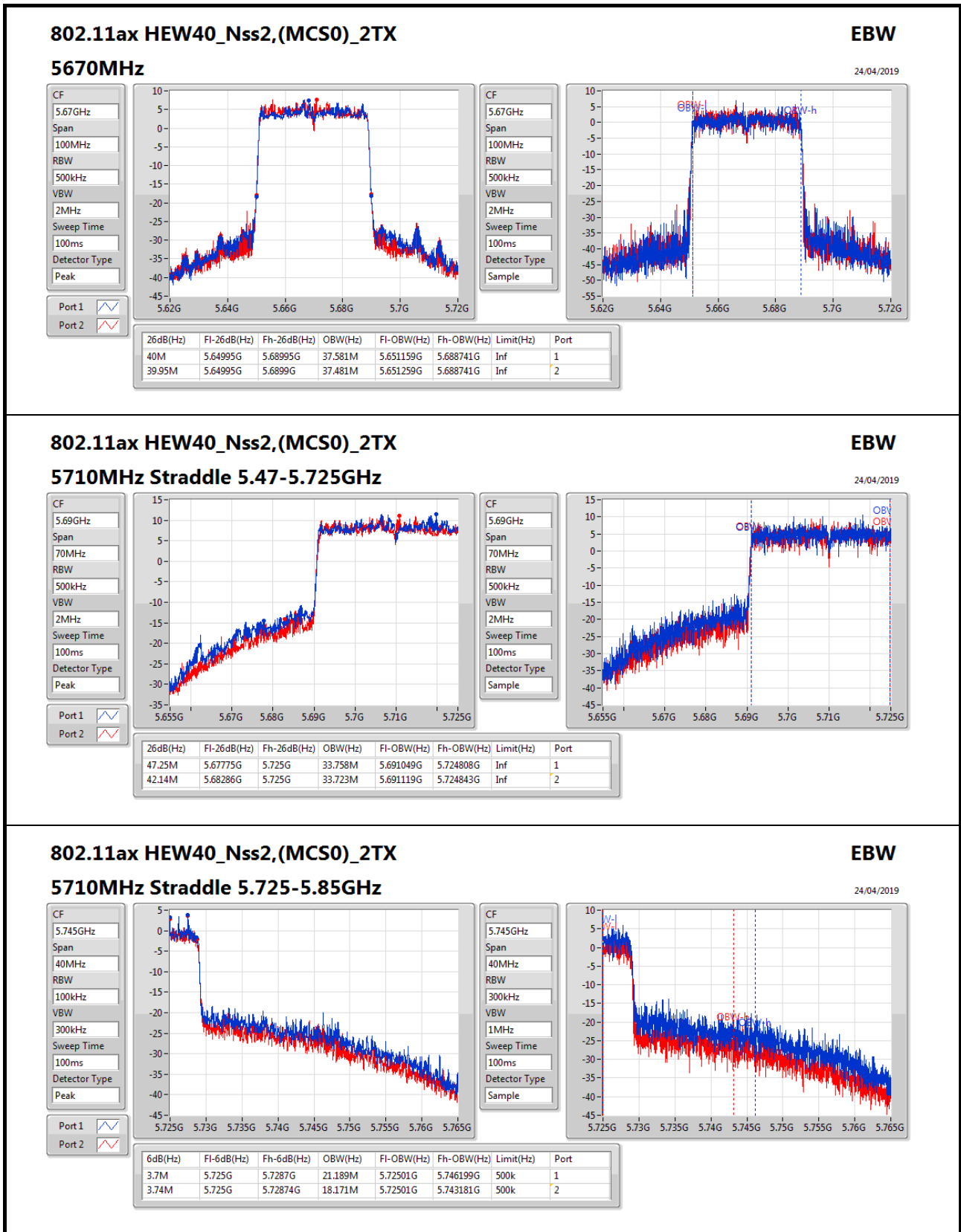


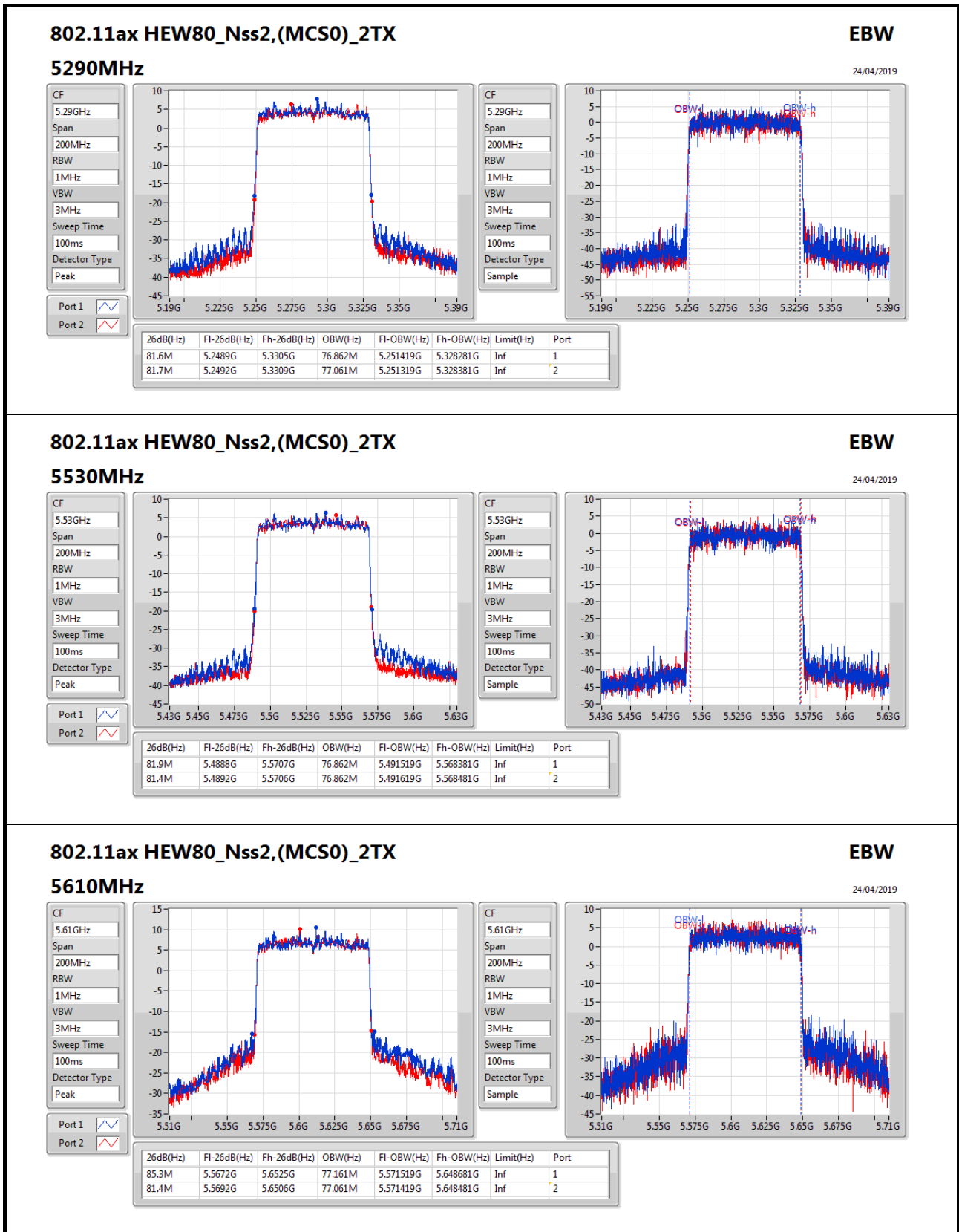











**802.11ax HEW80\_Nss2,(MCS0)\_2TX**
**EBW**

24/04/2019

**5610MHz**

CF: 5.61GHz

Span: 200MHz

RBW: 1MHz

VBW: 3MHz

Sweep Time: 100ms

Detector Type: Peak

Port 1:

Port 2:

CF: 5.61GHz

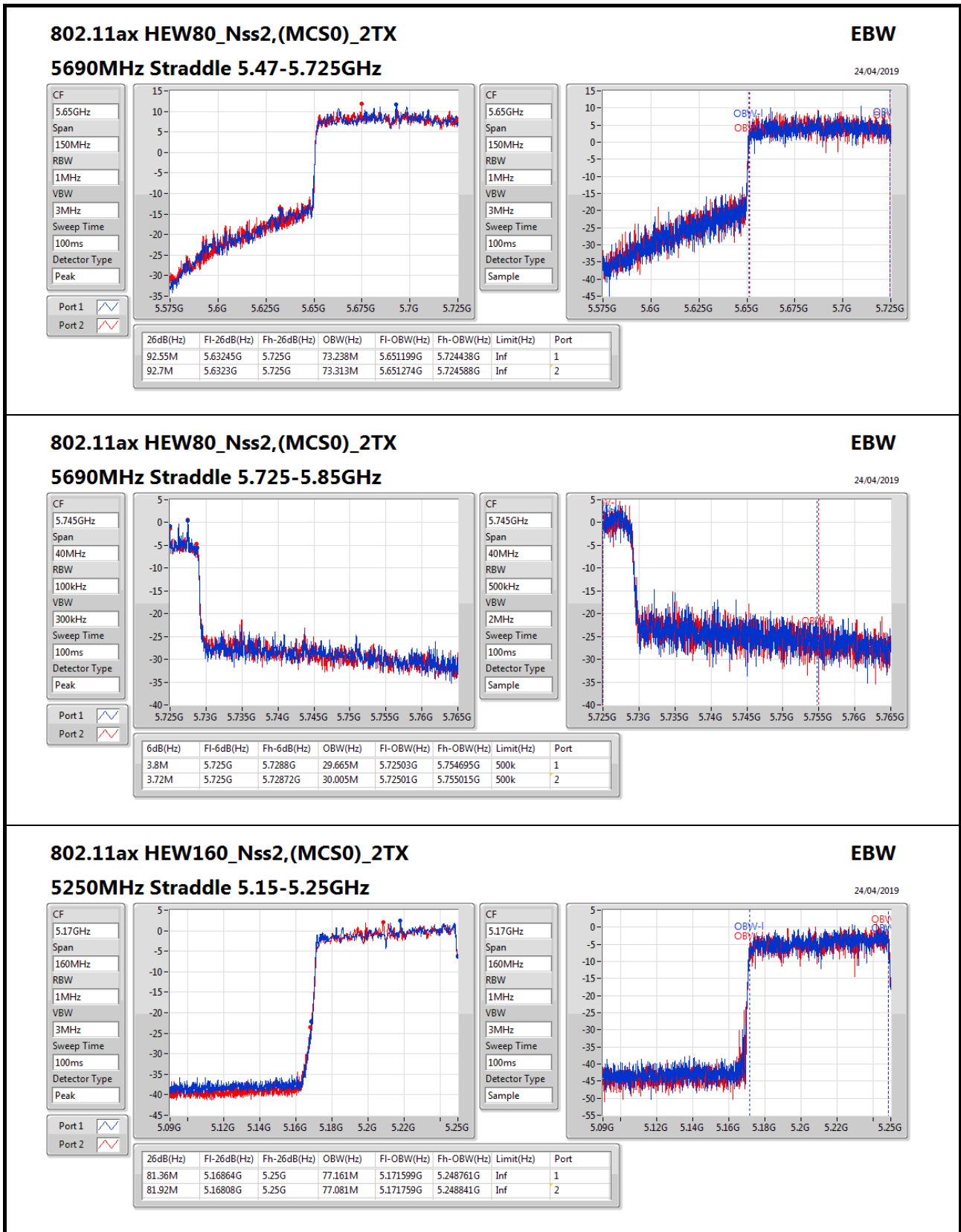
Span: 200MHz

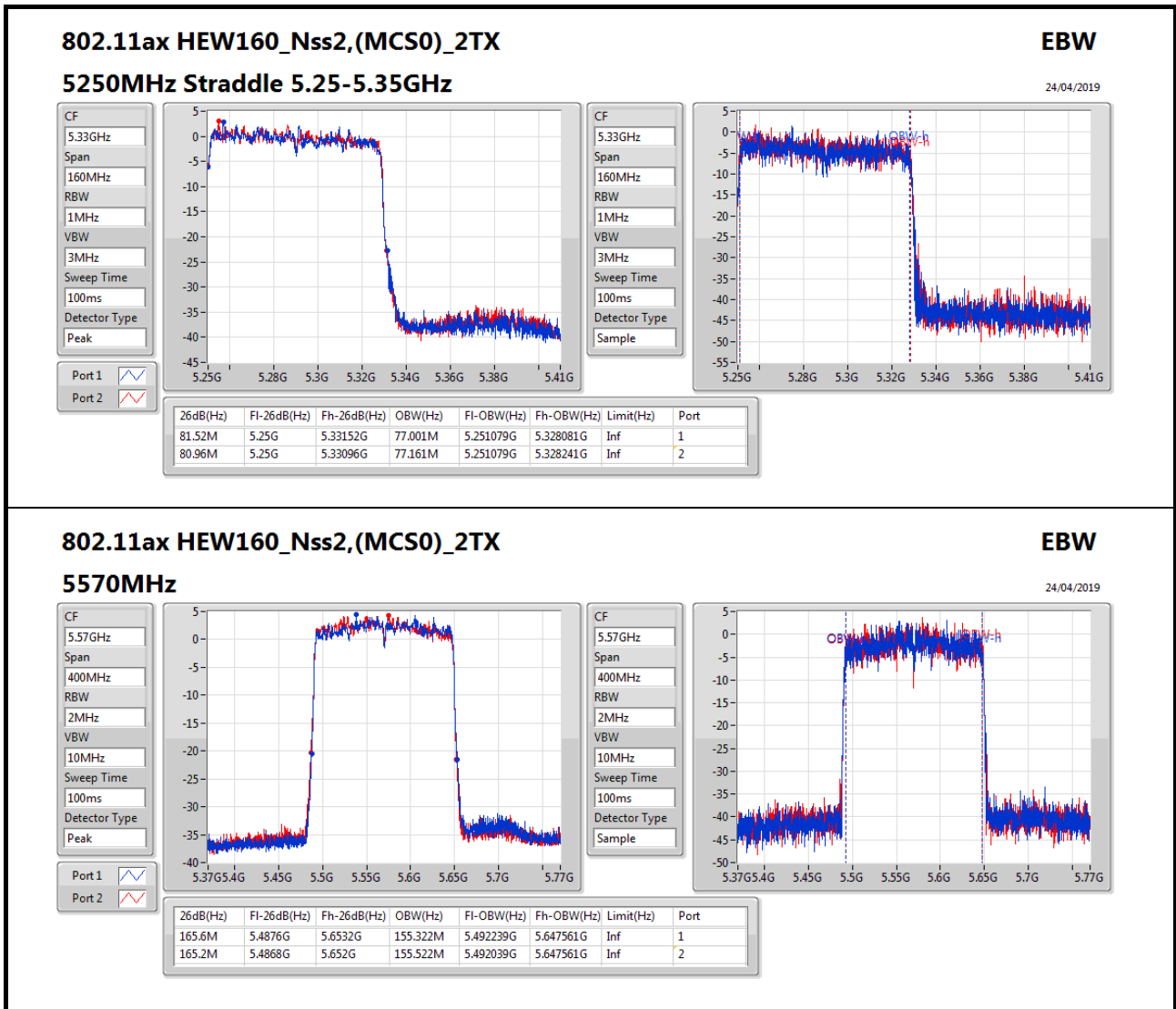
RBW: 1MHz

VBW: 3MHz

Sweep Time: 100ms

Detector Type: Sample







**For Indoor use for 5G Band 1 and Indoor/Outdoor use for 5G Band 2 ~ Band 4:  
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	81.2M	77.241M	77M2D1D	80.48M	77.161M
5.25-5.35GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	21.7M	16.642M	16M6D1D	21.35M	16.542M
802.11ax HEW20_Nss1,(MCS0)_4TX	21.9M	19.015M	19M0D1D	21.4M	18.941M
802.11ax HEW40_Nss1,(MCS0)_4TX	40.2M	37.531M	37M5D1D	39.85M	37.481M
802.11ax HEW80_Nss1,(MCS0)_4TX	81.7M	77.161M	77M2D1D	81.3M	76.962M
802.11ax HEW160_Nss1,(MCS0)_4TX	81.44M	77.241M	77M2D1D	81.12M	77.001M
5.47-5.725GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	21.75M	16.592M	16M6D1D	15.6M	13.298M
802.11ax HEW20_Nss1,(MCS0)_4TX	21.85M	18.991M	19M0D1D	15.72M	14.453M
802.11ax HEW40_Nss1,(MCS0)_4TX	40.2M	37.631M	37M6D1D	34.93M	33.653M
802.11ax HEW80_Nss1,(MCS0)_4TX	81.8M	77.261M	77M3D1D	75.45M	73.163M
802.11ax HEW160_Nss1,(MCS0)_4TX	164.6M	155.522M	156MD1D	163.6M	155.122M
5.725-5.85GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	3.14M	3.958M	3M96D1D	3.12M	3.858M
802.11ax HEW20_Nss1,(MCS0)_4TX	4.5M	4.518M	4M52D1D	4.46M	4.498M
802.11ax HEW40_Nss1,(MCS0)_4TX	3.88M	4.038M	4M04D1D	3.74M	4.018M
802.11ax HEW80_Nss1,(MCS0)_4TX	3.78M	14.913M	14M9D1D	3.66M	6.057M

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

**Max-OBW** = Maximum 99% occupied bandwidth;

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

**Min-OBW** = Minimum 99% occupied bandwidth;

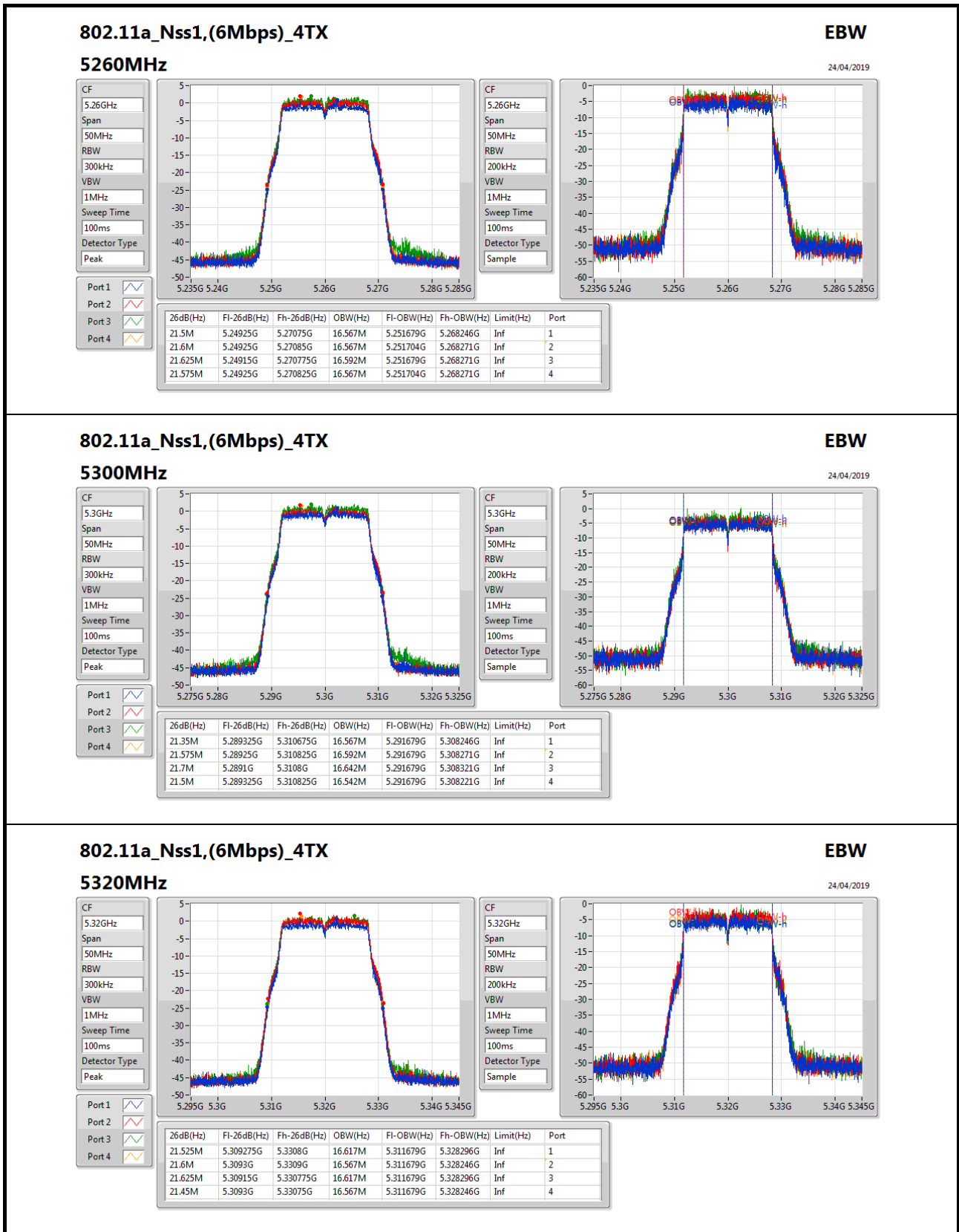


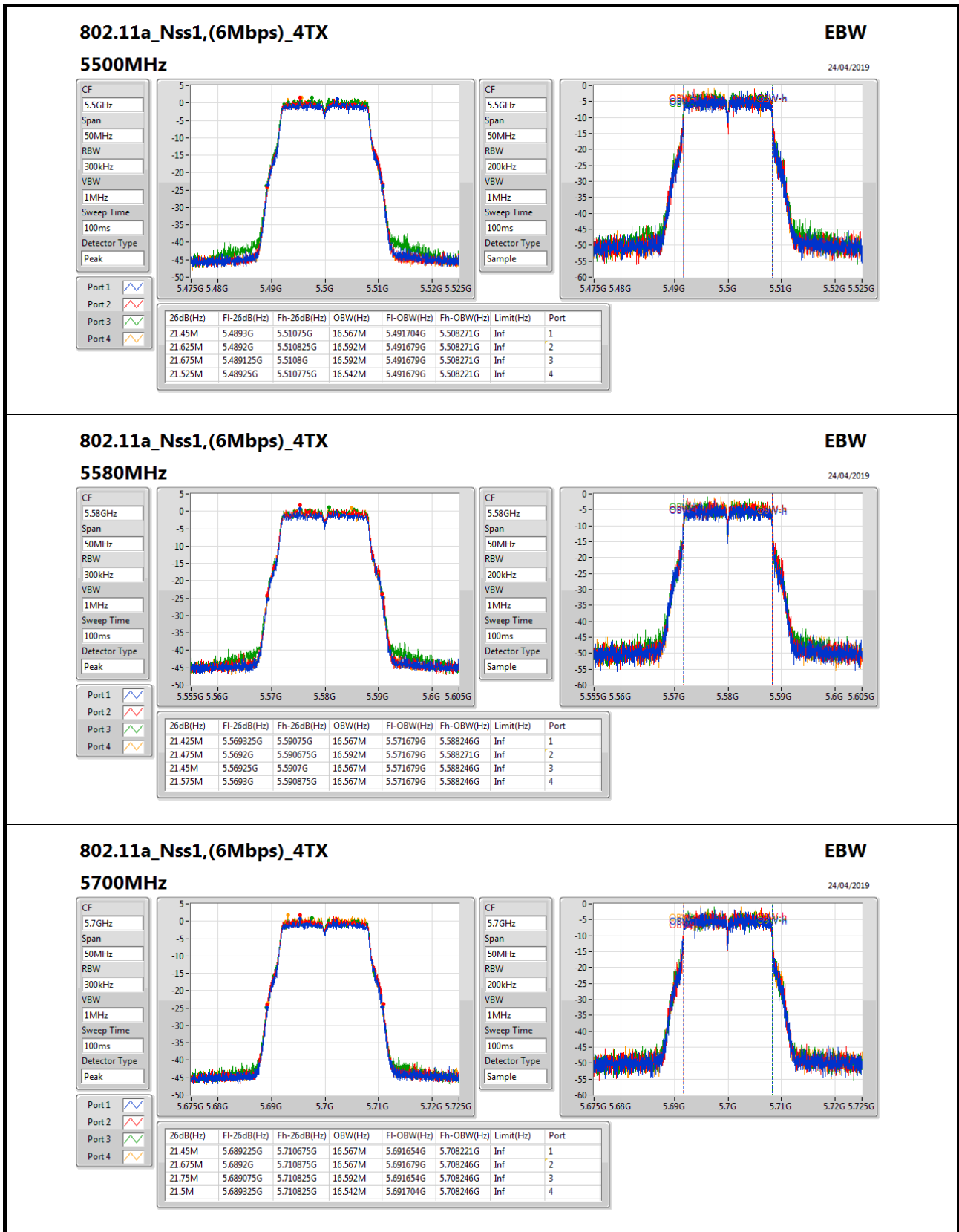
**Result**

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)	Port 3-N dB (Hz)	Port 3-OBW (Hz)	Port 4-N dB (Hz)	Port 4-OBW (Hz)
802.11a_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-	-	-
5260MHz	Pass	Inf	21.5M	16.567M	21.6M	16.567M	21.625M	16.592M	21.575M	16.567M
5300MHz	Pass	Inf	21.35M	16.567M	21.575M	16.592M	21.7M	16.642M	21.5M	16.542M
5320MHz	Pass	Inf	21.525M	16.617M	21.6M	16.567M	21.625M	16.617M	21.45M	16.567M
5500MHz	Pass	Inf	21.45M	16.567M	21.625M	16.592M	21.675M	16.592M	21.525M	16.542M
5580MHz	Pass	Inf	21.425M	16.567M	21.475M	16.592M	21.45M	16.567M	21.575M	16.567M
5700MHz	Pass	Inf	21.45M	16.567M	21.675M	16.567M	21.75M	16.592M	21.5M	16.542M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	15.63M	13.298M	15.675M	13.343M	15.75M	13.328M	15.6M	13.298M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	3.12M	3.918M	3.14M	3.958M	3.14M	3.938M	3.14M	3.858M
802.11ax HEW20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5260MHz	Pass	Inf	21.725M	18.941M	21.55M	18.991M	21.9M	18.966M	21.45M	18.966M
5300MHz	Pass	Inf	21.875M	18.966M	21.575M	18.991M	21.85M	18.966M	21.4M	18.941M
5320MHz	Pass	Inf	21.7M	18.941M	21.55M	19.015M	21.875M	18.991M	21.425M	18.966M
5500MHz	Pass	Inf	21.675M	18.966M	21.575M	18.941M	21.775M	18.966M	21.425M	18.941M
5580MHz	Pass	Inf	21.75M	18.991M	21.6M	18.966M	21.85M	18.966M	21.3M	18.966M
5700MHz	Pass	Inf	21.75M	18.966M	21.625M	18.941M	21.8M	18.966M	21.425M	18.966M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	15.825M	14.468M	15.81M	14.513M	15.87M	14.453M	15.72M	14.468M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	4.48M	4.498M	4.48M	4.518M	4.46M	4.498M	4.5M	4.518M
802.11ax HEW40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5270MHz	Pass	Inf	39.85M	37.531M	40.1M	37.531M	40.1M	37.531M	40.2M	37.481M
5310MHz	Pass	Inf	40M	37.531M	40.15M	37.481M	40M	37.531M	40.2M	37.531M
5510MHz	Pass	Inf	39.9M	37.581M	40.05M	37.581M	40.1M	37.531M	40.2M	37.531M
5550MHz	Pass	Inf	40M	37.631M	40.05M	37.631M	40.05M	37.631M	40.2M	37.531M
5670MHz	Pass	Inf	40M	37.531M	40.05M	37.531M	40.15M	37.531M	40.15M	37.531M
5710MHz Straddle 5.47-5.725GHz	Pass	Inf	35M	33.688M	34.93M	33.688M	35.07M	33.653M	35.035M	33.688M
5710MHz Straddle 5.725-5.85GHz	Pass	500k	3.84M	4.018M	3.74M	4.038M	3.8M	4.038M	3.88M	4.038M
802.11ax HEW80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5290MHz	Pass	Inf	81.7M	76.962M	81.4M	76.962M	81.3M	77.161M	81.7M	76.962M
5530MHz	Pass	Inf	81.8M	76.962M	81.2M	77.161M	81.3M	77.161M	81.6M	77.061M
5610MHz	Pass	Inf	81.7M	77.161M	81.5M	77.161M	81.2M	77.161M	81.7M	77.261M
5690MHz Straddle 5.47-5.725GHz	Pass	Inf	75.825M	73.238M	75.75M	73.388M	75.45M	73.238M	75.75M	73.163M
5690MHz Straddle 5.725-5.85GHz	Pass	500k	3.78M	14.913M	3.7M	6.057M	3.74M	6.737M	3.66M	9.735M
802.11ax HEW160_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	Inf	81.2M	77.161M	80.8M	77.241M	80.48M	77.161M	80.8M	77.161M
5250MHz Straddle 5.25-5.35GHz	Pass	Inf	81.44M	77.161M	81.44M	77.241M	81.12M	77.001M	81.36M	77.081M
5570MHz	Pass	Inf	164.6M	155.522M	164.6M	155.122M	163.6M	155.522M	164M	155.322M

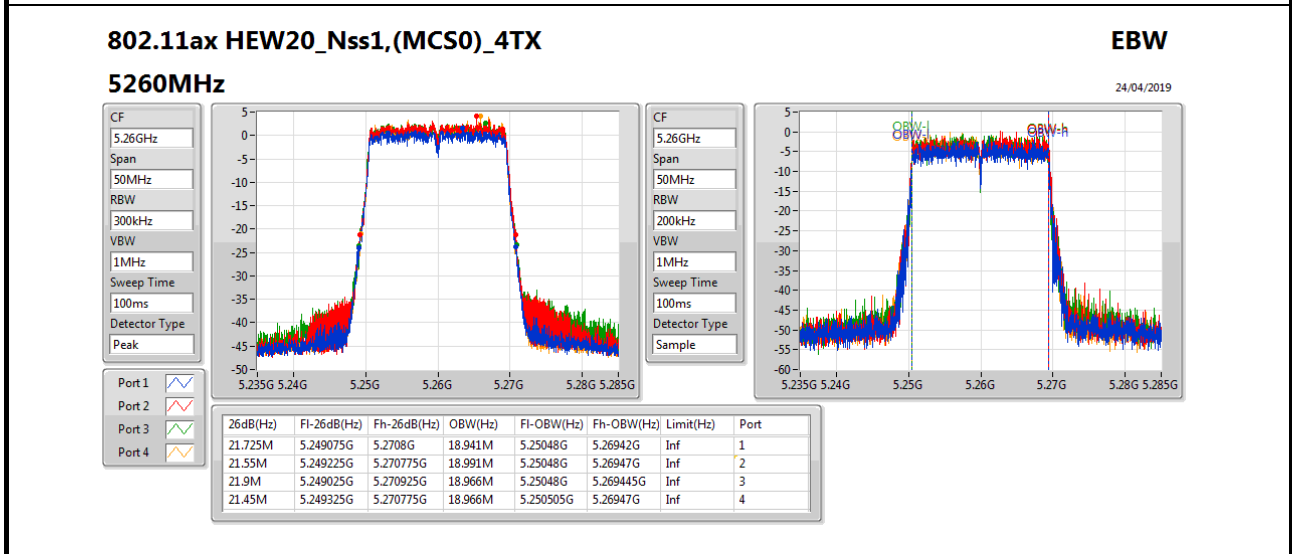
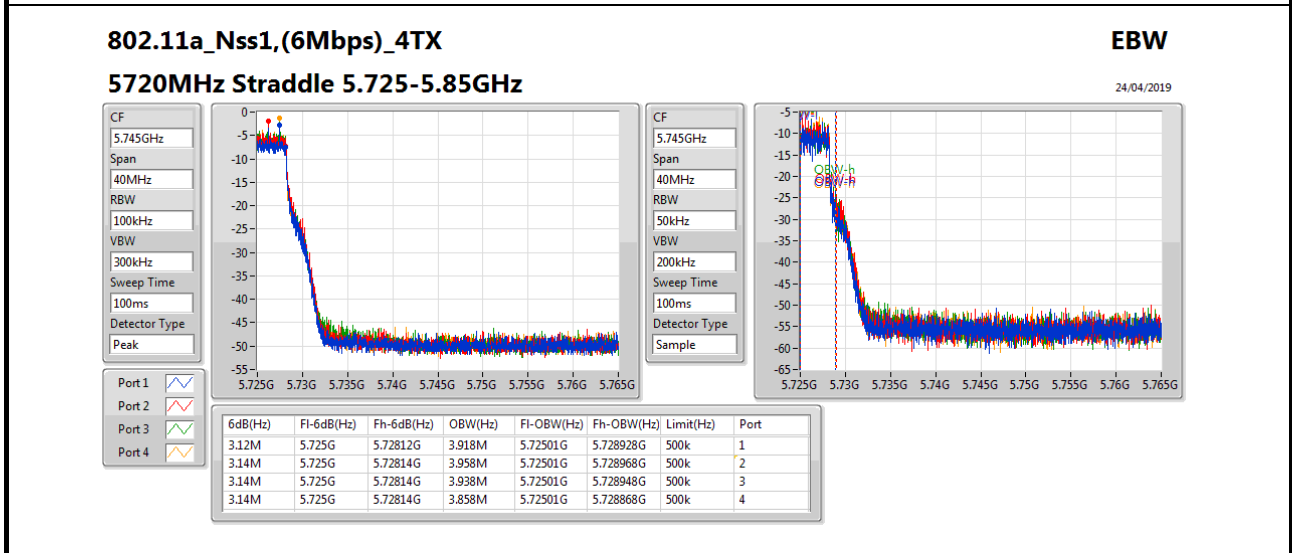
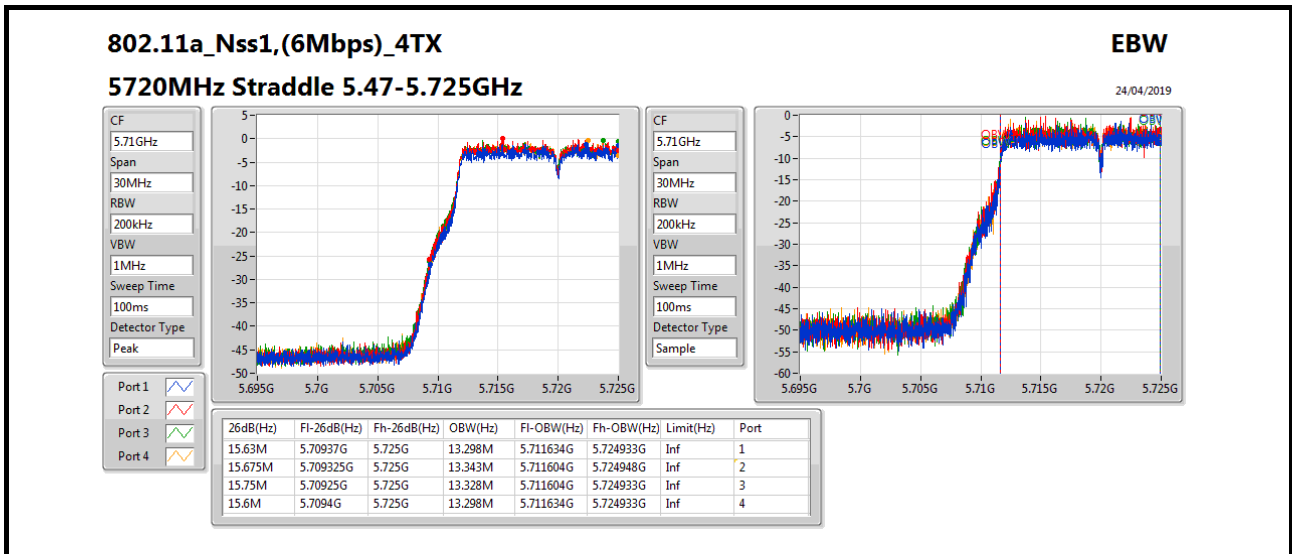
**Port X-N dB** = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band

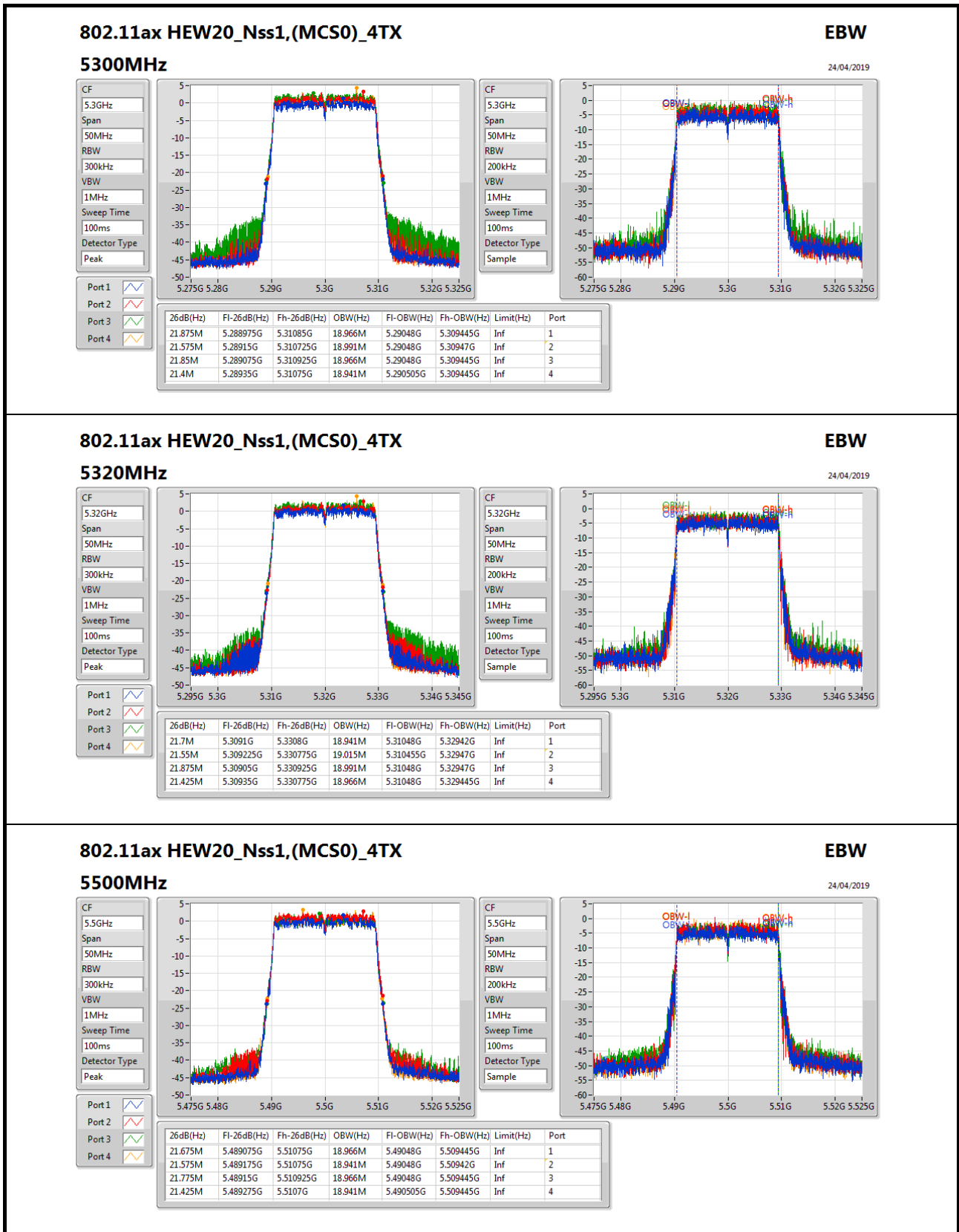
**Port X-OBW** = Port X 99% occupied bandwidth;

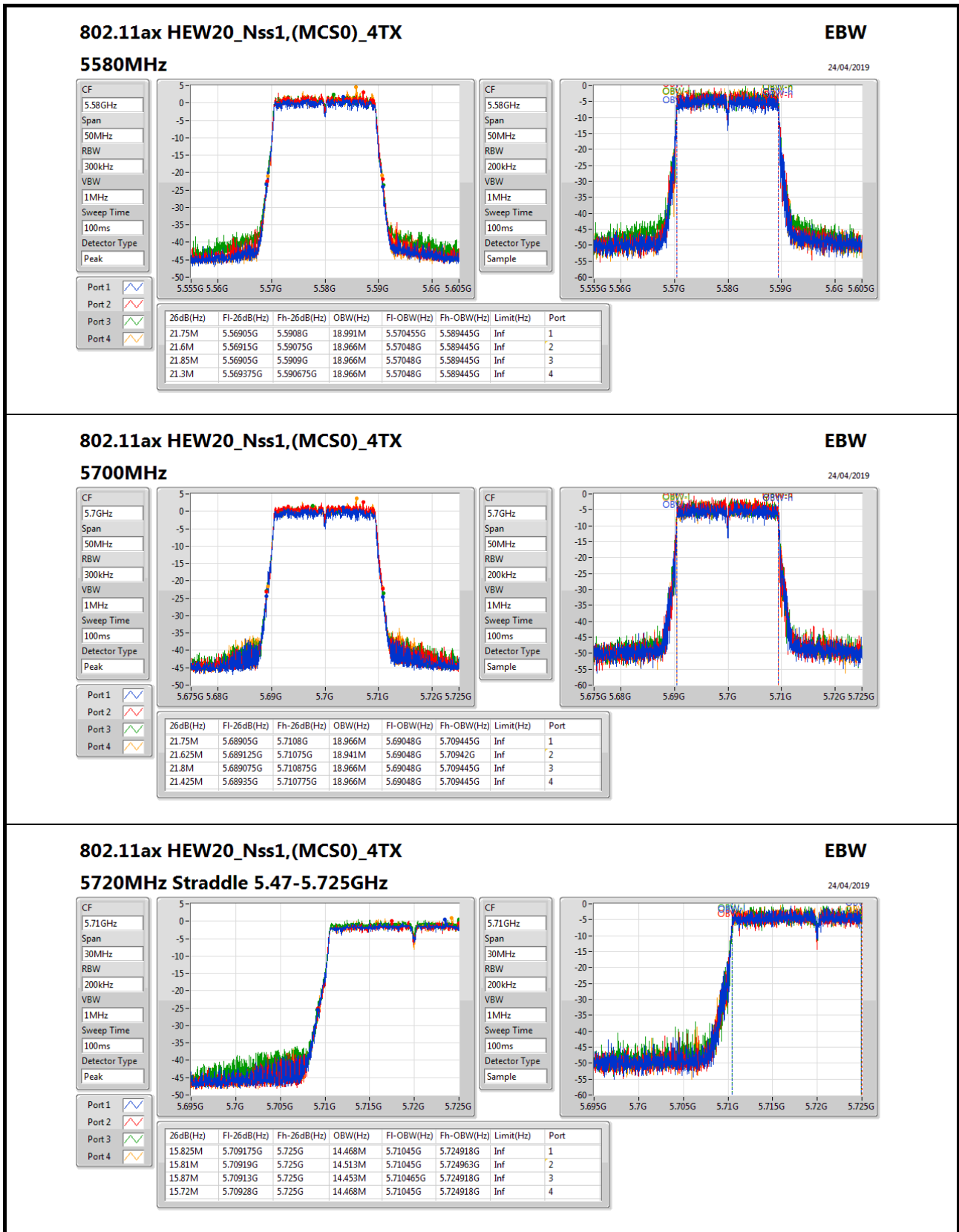


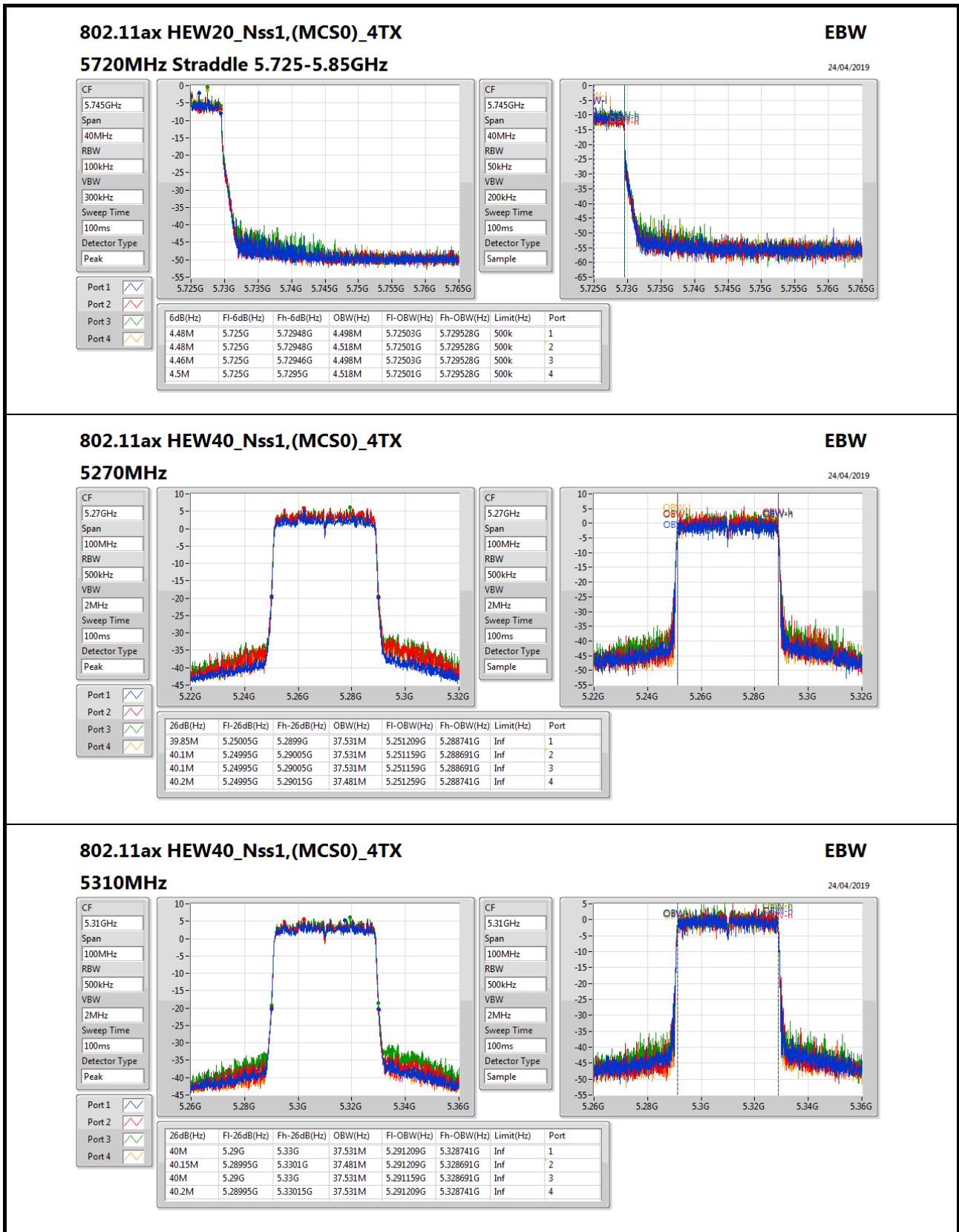


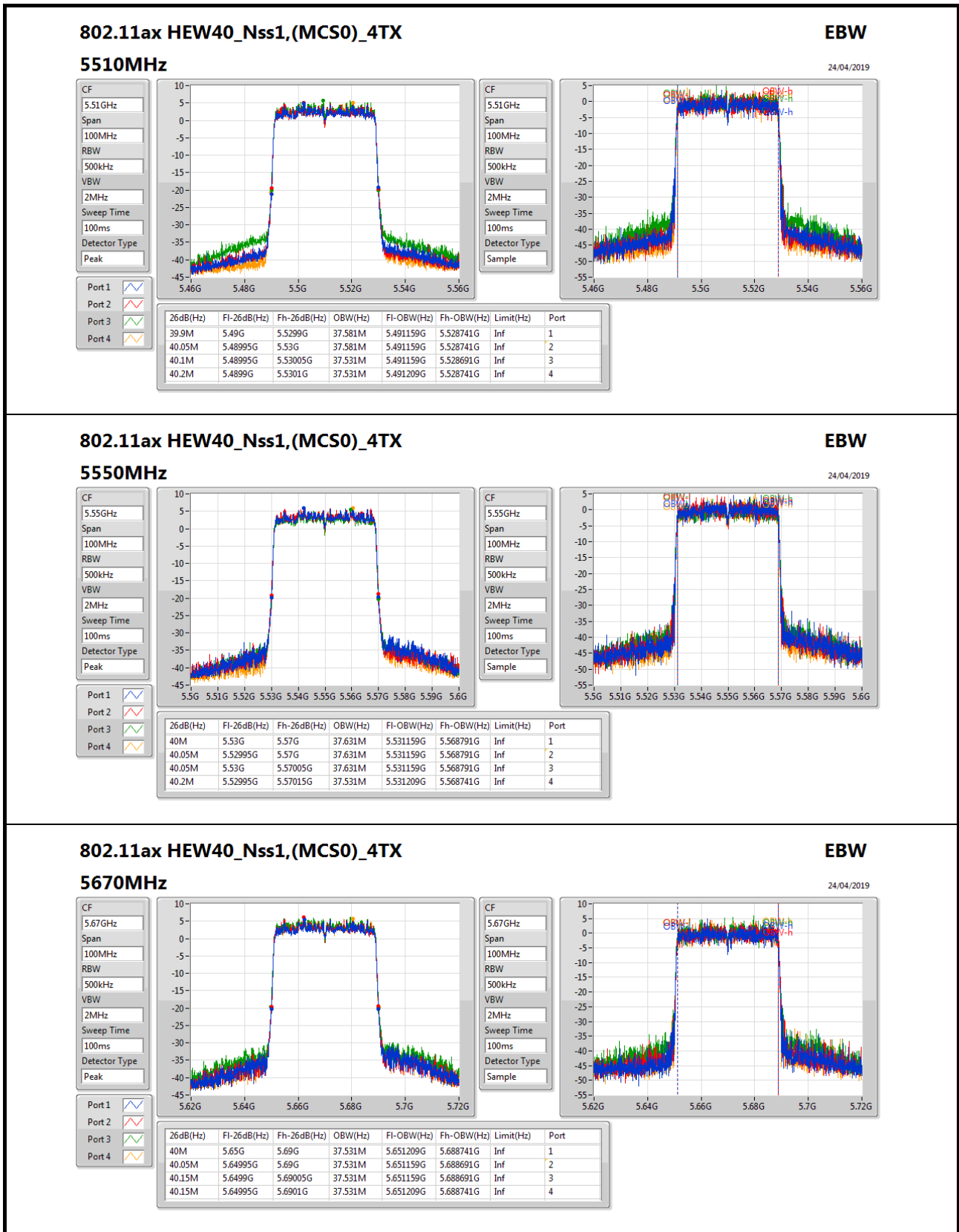


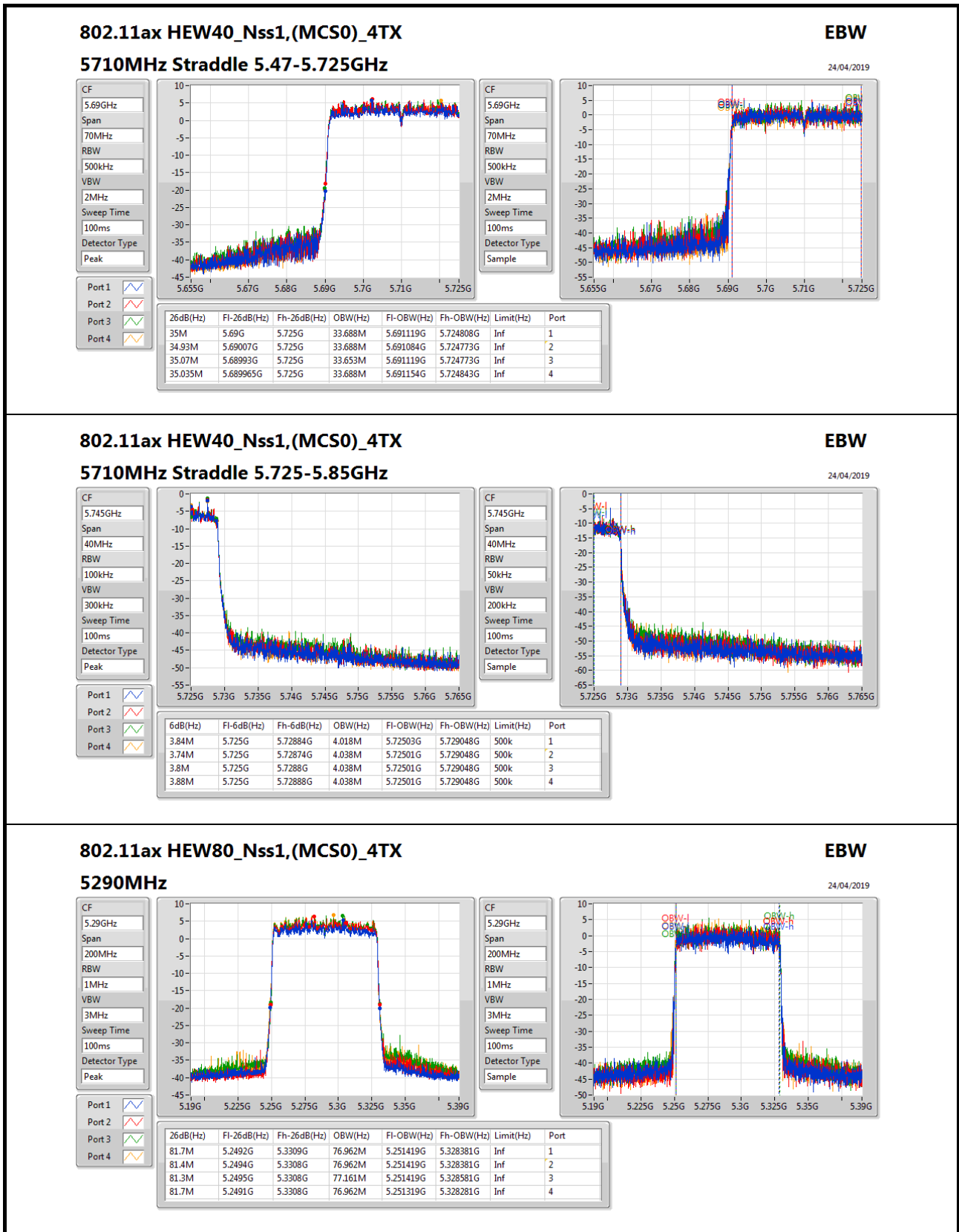


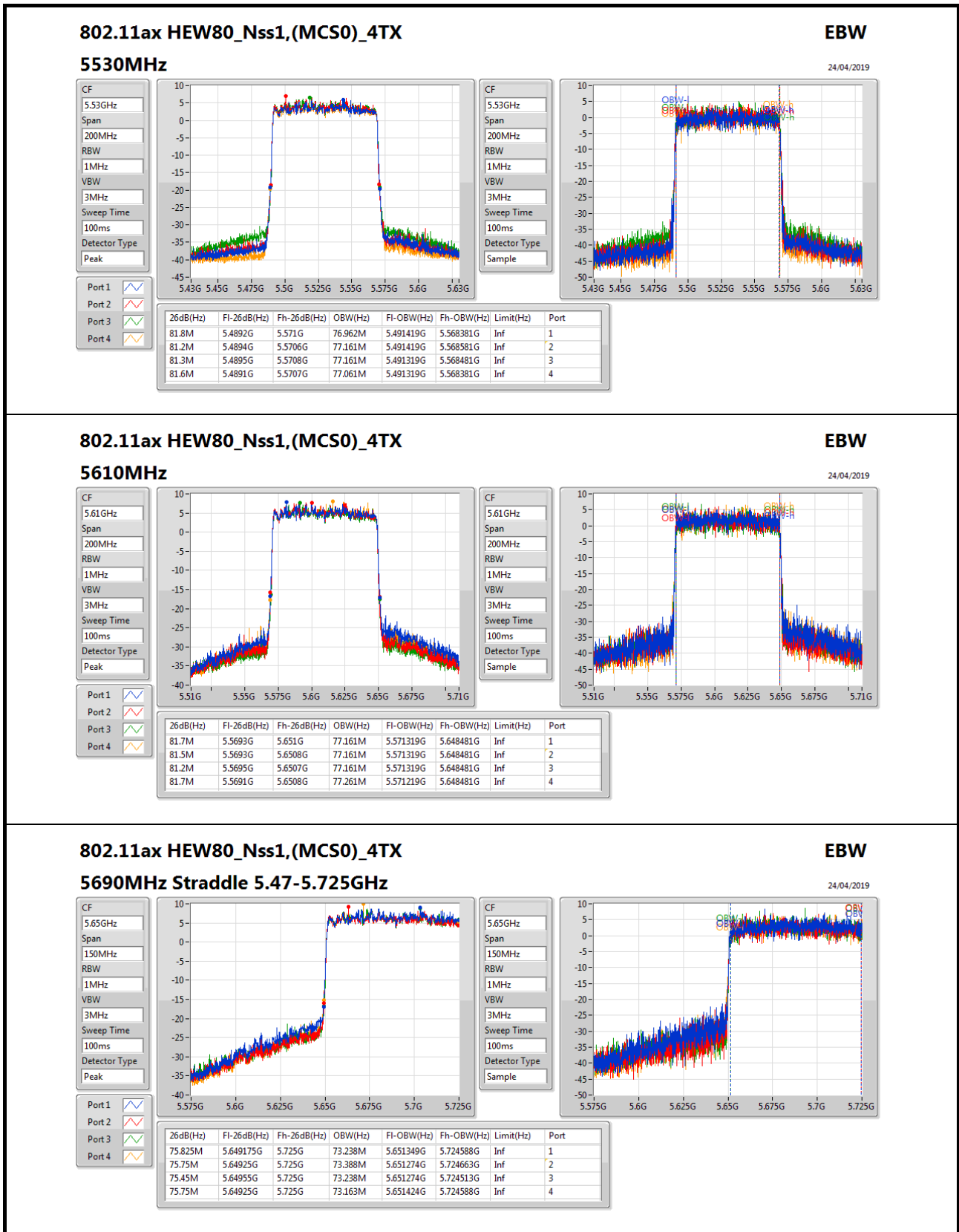


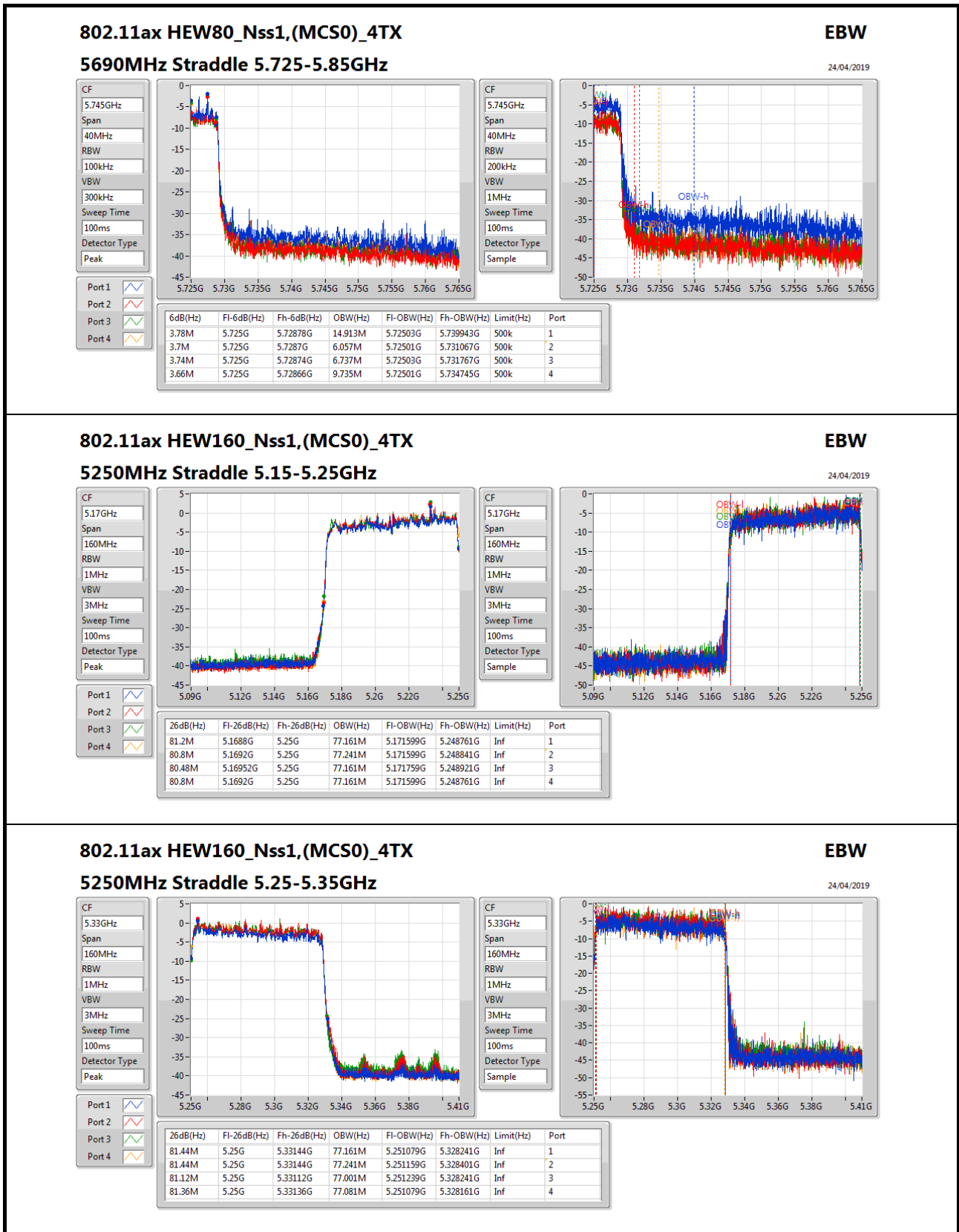




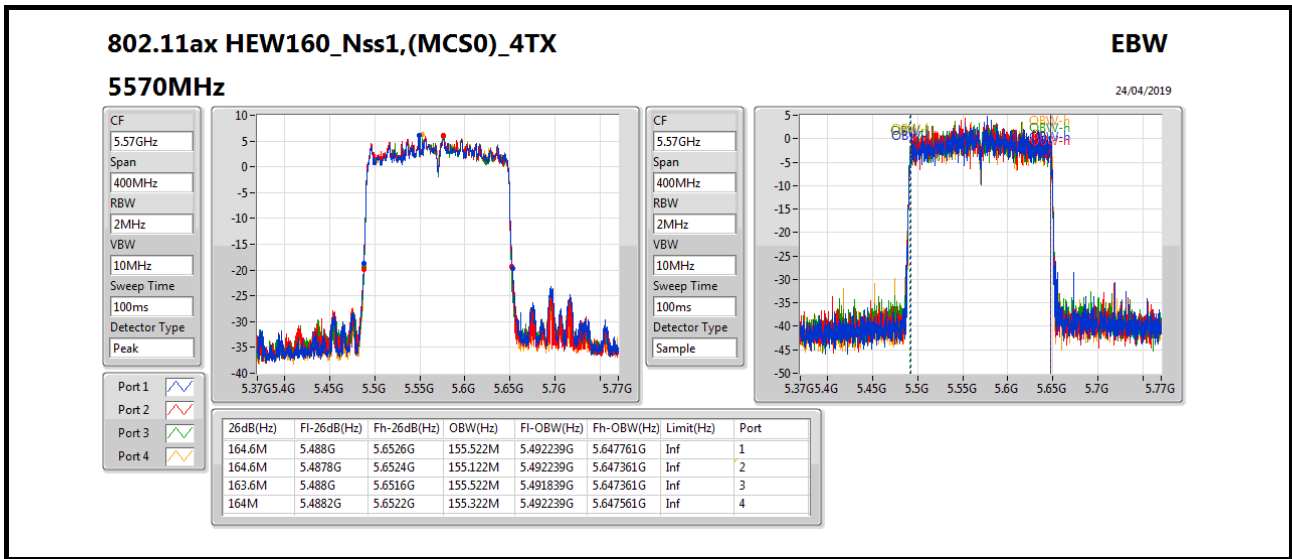














**For Indoor use for 5G Band 1 and Indoor/Outdoor use for 5G Band 2 ~ Band 4:  
Summary**

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	80.96M	77.241M	77M2D1D	80.72M	77.001M
5.25-5.35GHz	-	-	-	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	21.875M	18.991M	19M0D1D	21.4M	18.941M
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	40.15M	37.581M	37M6D1D	39.9M	37.481M
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	81.8M	77.061M	77M1D1D	81.2M	76.962M
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	81.92M	77.241M	77M2D1D	81.44M	77.001M
5.47-5.725GHz	-	-	-	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	21.9M	19.015M	19M0D1D	15.69M	14.453M
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	40.15M	37.631M	37M6D1D	34.93M	33.618M
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	82M	77.161M	77M2D1D	75.525M	73.163M
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	165.2M	155.722M	156MD1D	164.2M	155.122M
5.725-5.85GHz	-	-	-	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	4.52M	4.538M	4M54D1D	4.48M	4.498M
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	3.98M	4.058M	4M06D1D	3.74M	4.018M
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	3.86M	4.078M	4M08D1D	3.46M	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;

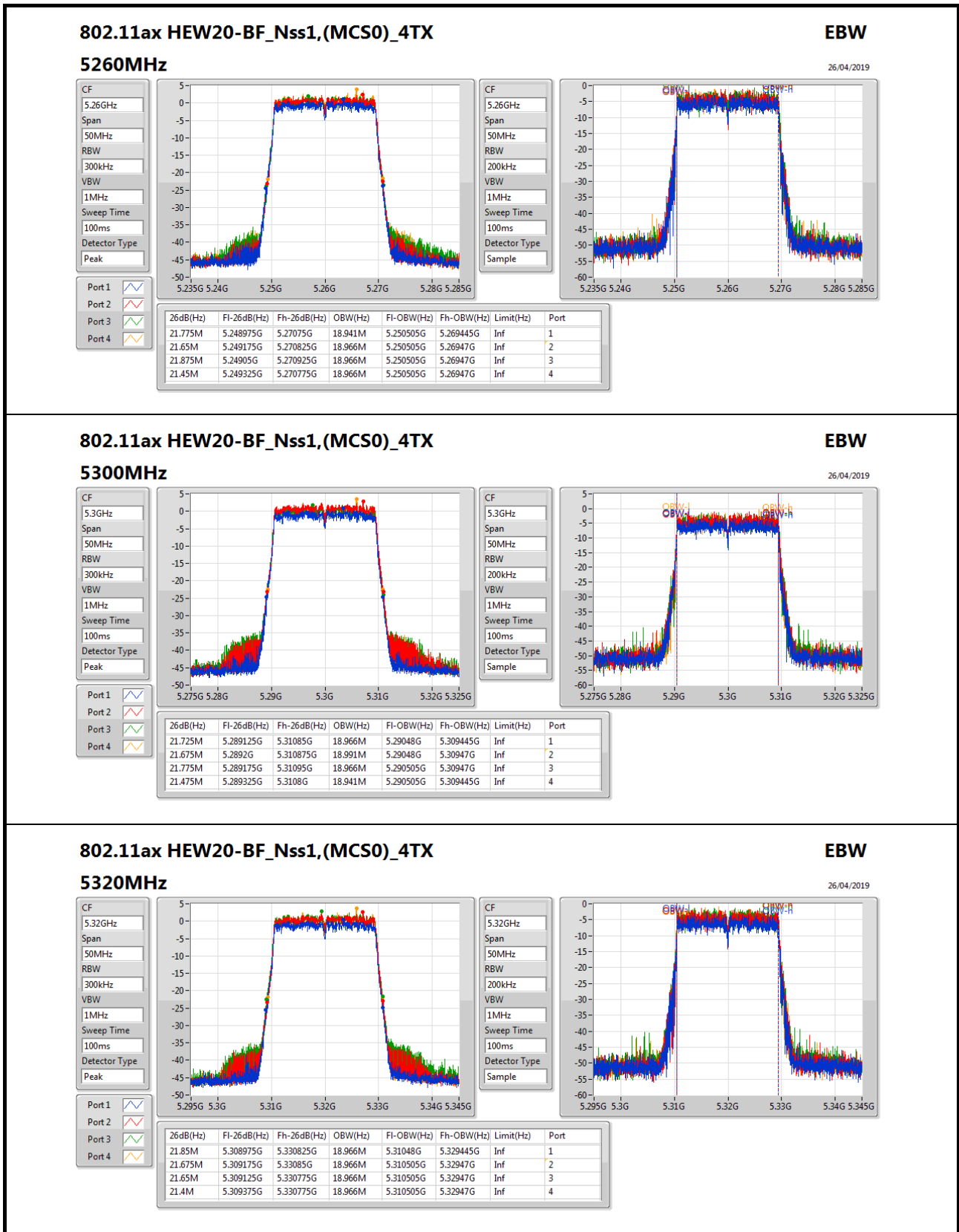


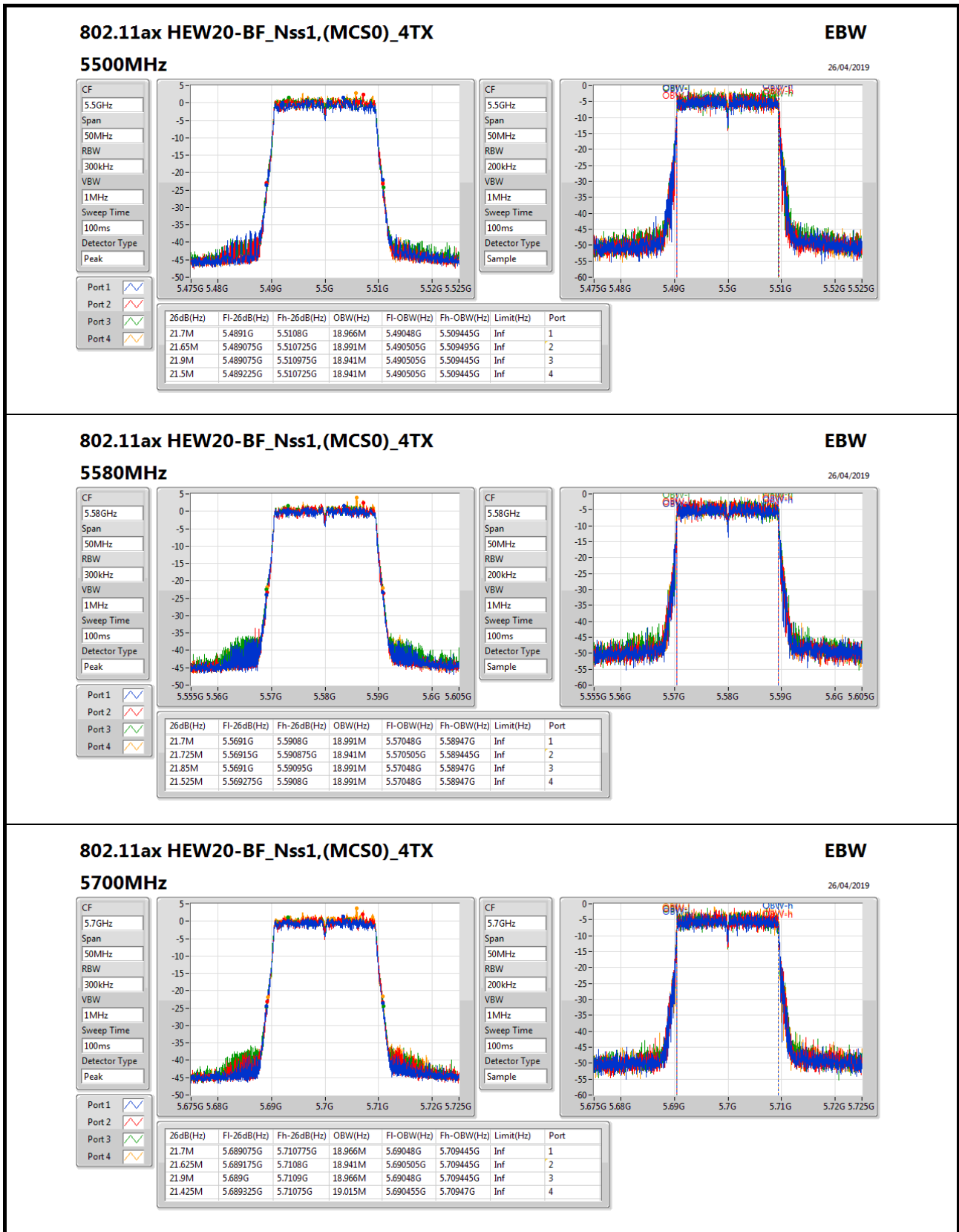
**Result**

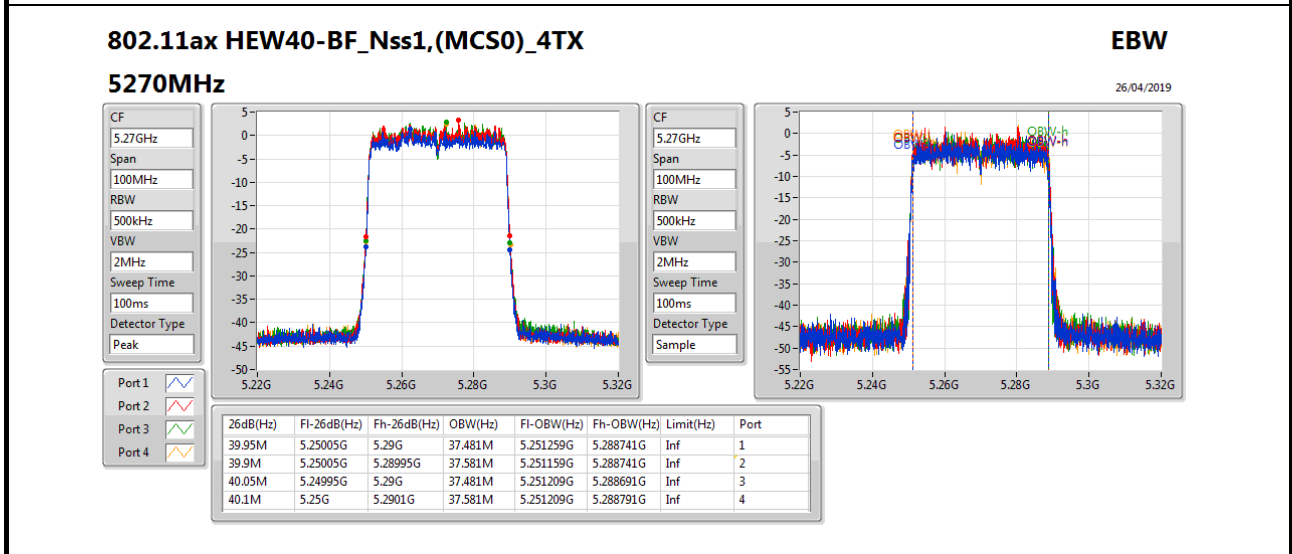
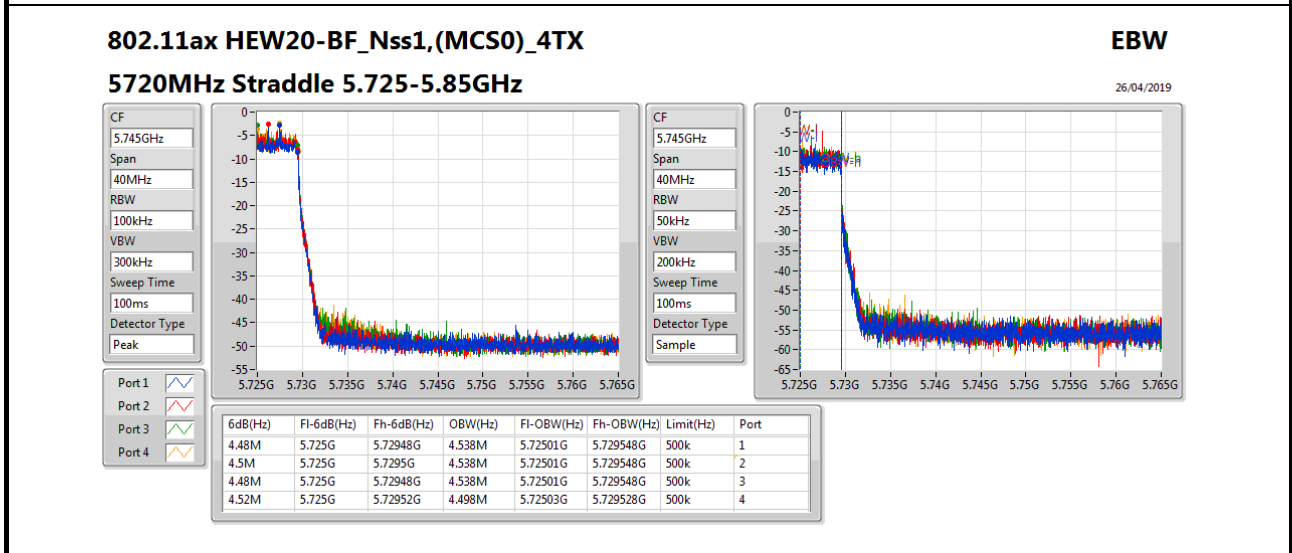
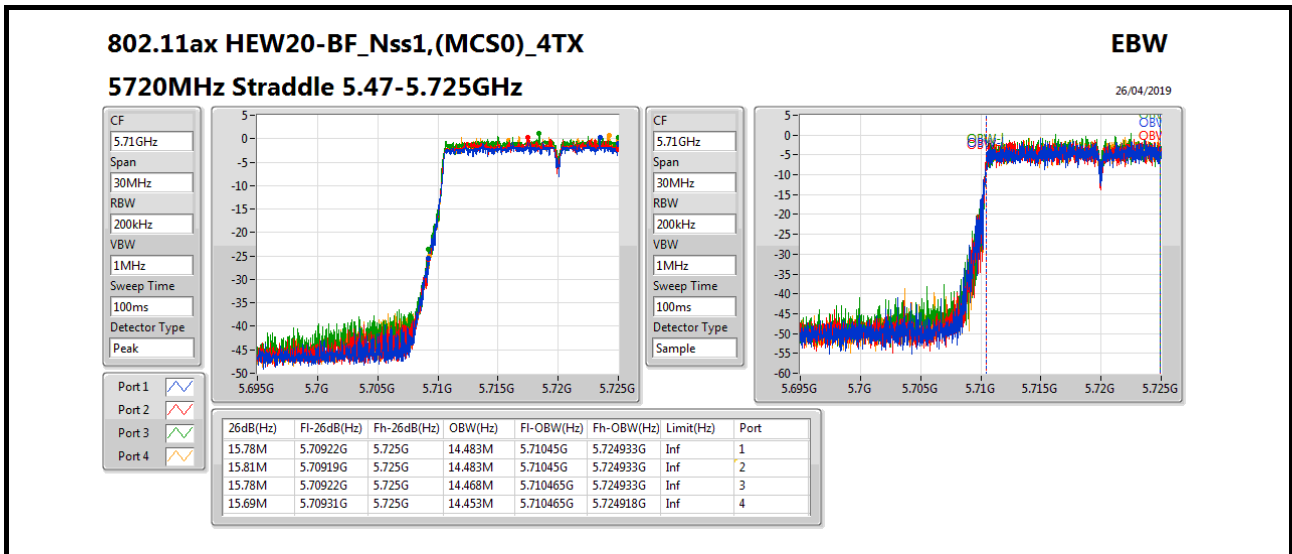
Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)	Port 3-N dB (Hz)	Port 3-OBW (Hz)	Port 4-N dB (Hz)	Port 4-OBW (Hz)
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5260MHz	Pass	Inf	21.775M	18.941M	21.65M	18.966M	21.875M	18.966M	21.45M	18.966M
5300MHz	Pass	Inf	21.725M	18.966M	21.675M	18.991M	21.775M	18.966M	21.475M	18.941M
5320MHz	Pass	Inf	21.85M	18.966M	21.675M	18.966M	21.65M	18.966M	21.4M	18.966M
5500MHz	Pass	Inf	21.7M	18.966M	21.65M	18.991M	21.9M	18.941M	21.5M	18.941M
5580MHz	Pass	Inf	21.7M	18.991M	21.725M	18.941M	21.85M	18.991M	21.525M	18.991M
5700MHz	Pass	Inf	21.7M	18.966M	21.625M	18.941M	21.9M	18.966M	21.425M	19.015M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	15.78M	14.483M	15.81M	14.483M	15.78M	14.468M	15.69M	14.453M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	4.48M	4.538M	4.5M	4.538M	4.48M	4.538M	4.52M	4.498M
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5270MHz	Pass	Inf	39.95M	37.481M	39.9M	37.581M	40.05M	37.481M	40.1M	37.581M
5310MHz	Pass	Inf	40.1M	37.531M	40.1M	37.531M	40.15M	37.531M	40.05M	37.531M
5510MHz	Pass	Inf	39.95M	37.531M	40.15M	37.531M	40.05M	37.581M	40.15M	37.631M
5550MHz	Pass	Inf	40.05M	37.481M	40.15M	37.481M	40M	37.581M	40.15M	37.581M
5670MHz	Pass	Inf	40M	37.531M	40.15M	37.531M	40.1M	37.581M	40.1M	37.631M
5710MHz Straddle 5.47-5.725GHz	Pass	Inf	34.93M	33.653M	35.07M	33.618M	35.035M	33.653M	35.105M	33.653M
5710MHz Straddle 5.725-5.85GHz	Pass	500k	3.98M	4.038M	3.82M	4.058M	3.74M	4.018M	3.88M	4.038M
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5290MHz	Pass	Inf	81.8M	77.061M	81.2M	76.962M	81.2M	77.061M	81.8M	76.962M
5530MHz	Pass	Inf	81.8M	77.161M	81.4M	77.061M	81.3M	76.862M	81.3M	77.061M
5610MHz	Pass	Inf	82M	76.962M	81.1M	77.061M	81.4M	76.962M	81.7M	77.061M
5690MHz Straddle 5.47-5.725GHz	Pass	Inf	75.675M	73.163M	75.825M	73.163M	75.525M	73.313M	75.975M	73.163M
5690MHz Straddle 5.725-5.85GHz	Pass	500k	3.46M	4.058M	3.86M	4.058M	3.48M	4.078M	3.76M	4.038M
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	Inf	80.8M	77.001M	80.72M	77.161M	80.96M	77.241M	80.8M	77.241M
5250MHz Straddle 5.25-5.35GHz	Pass	Inf	81.44M	77.241M	81.76M	77.161M	81.84M	77.161M	81.92M	77.001M
5570MHz	Pass	Inf	164.8M	155.122M	164.2M	155.722M	164.6M	155.522M	165.2M	155.322M

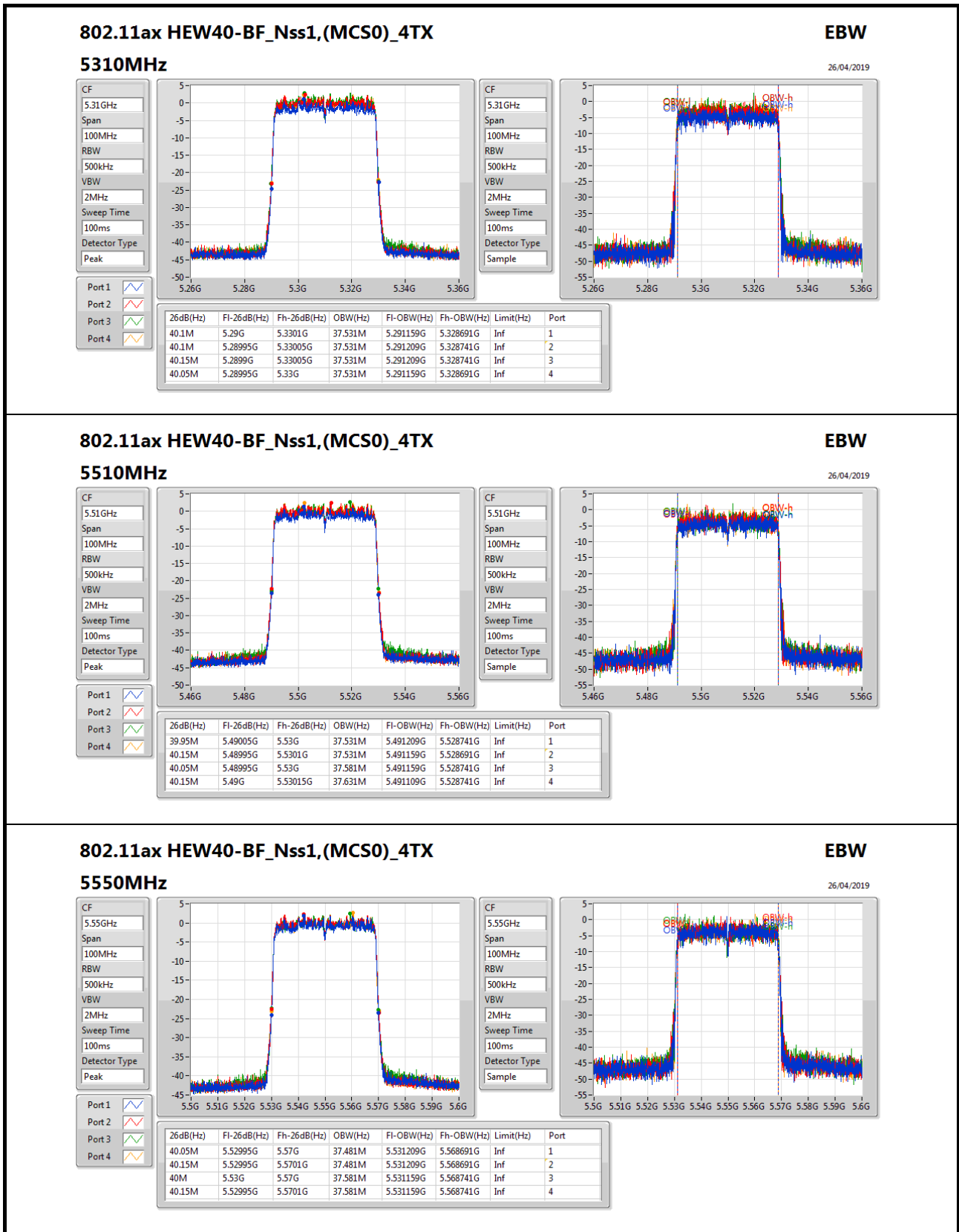
**Port X-N dB = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band**

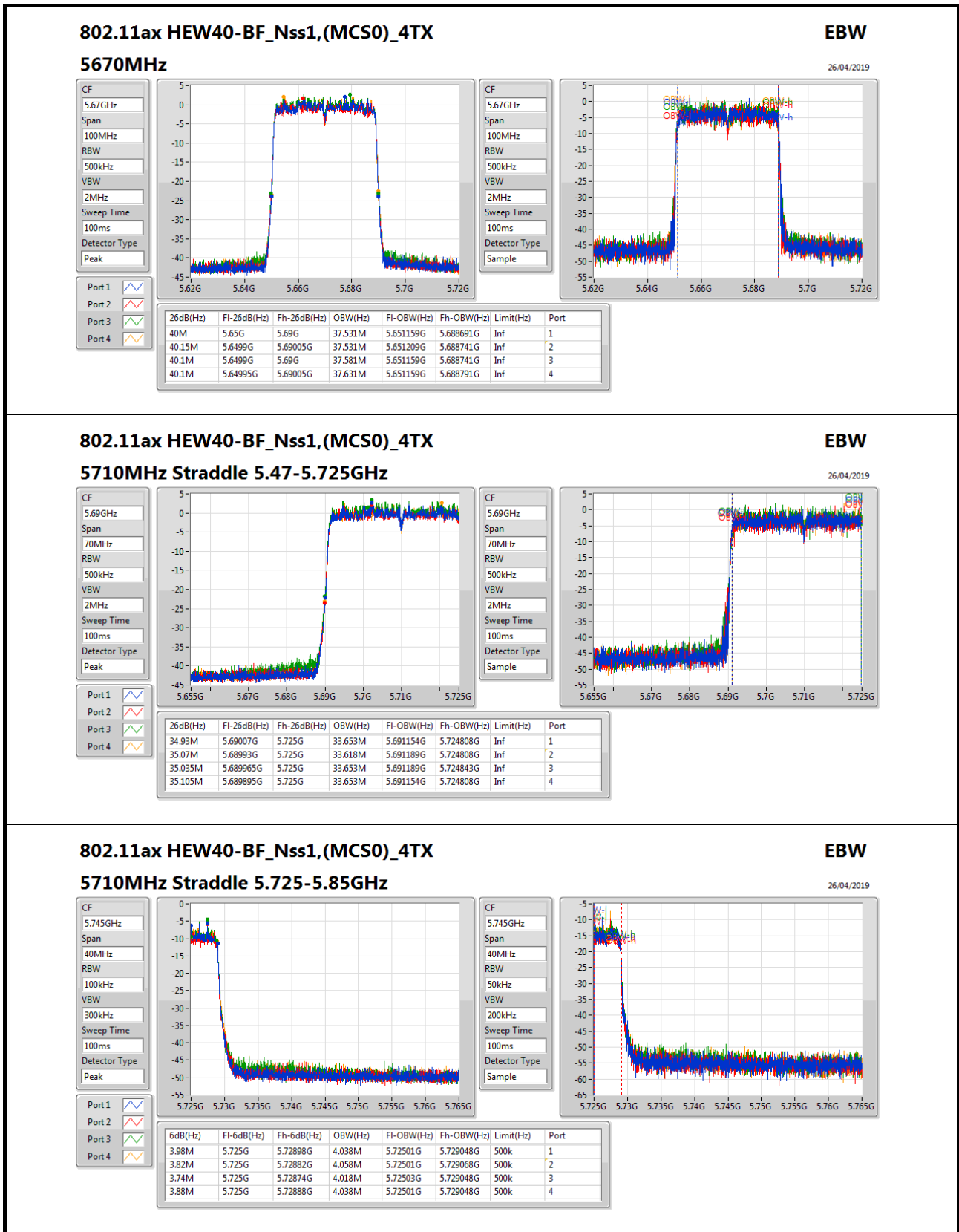
**Port X-OBW = Port X 99% occupied bandwidth;**



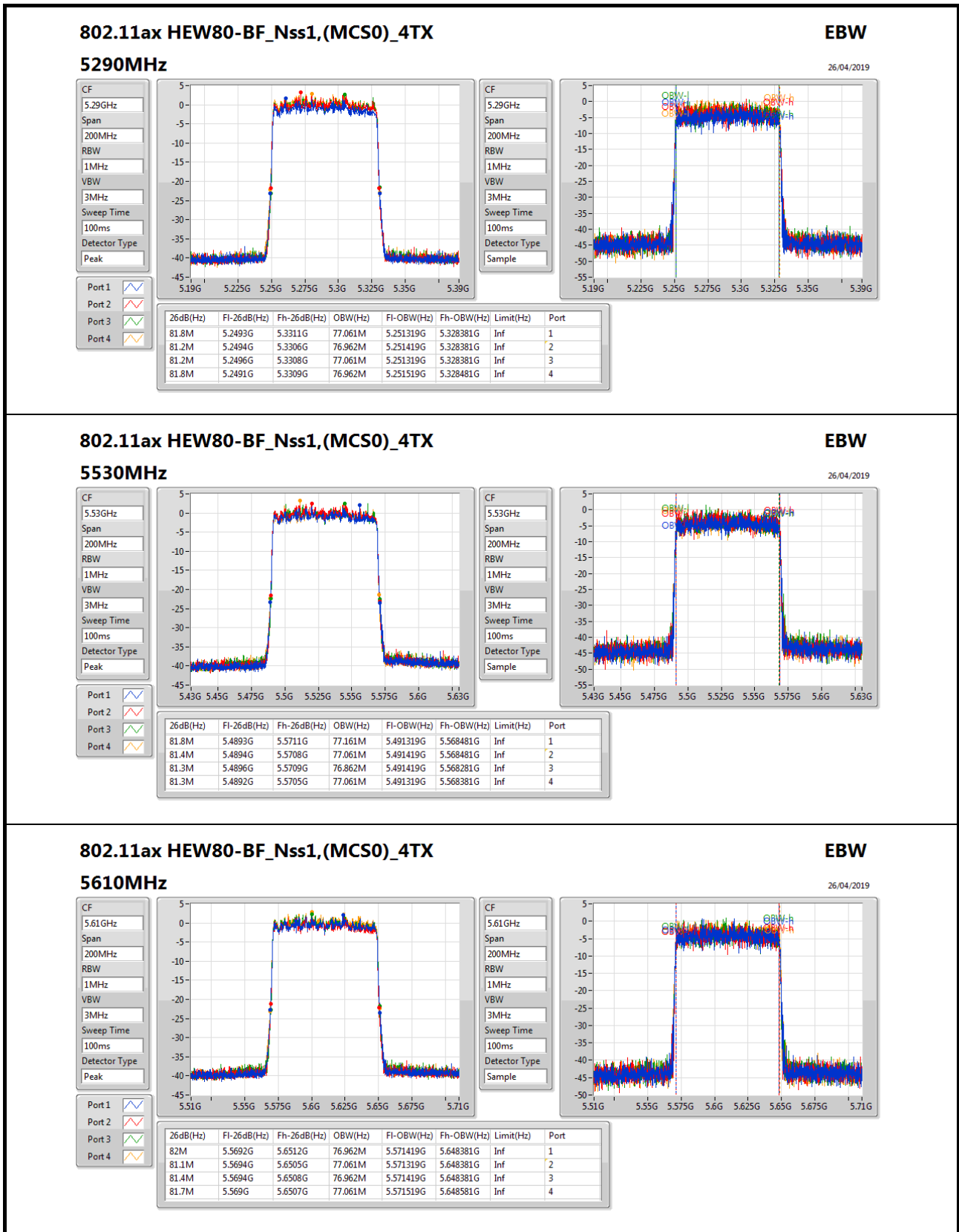


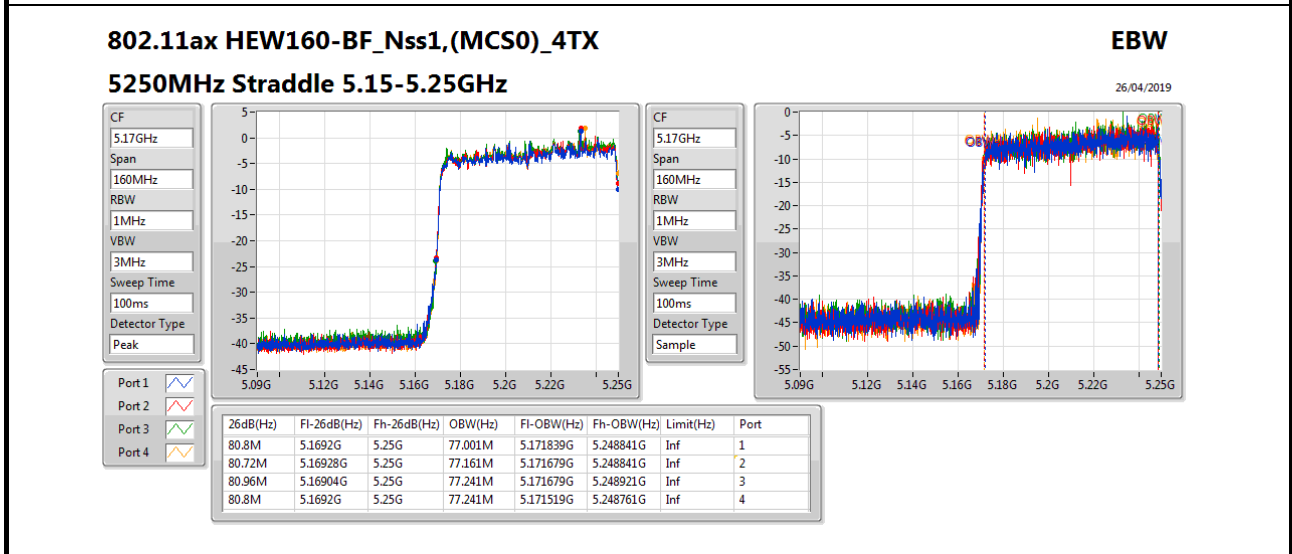
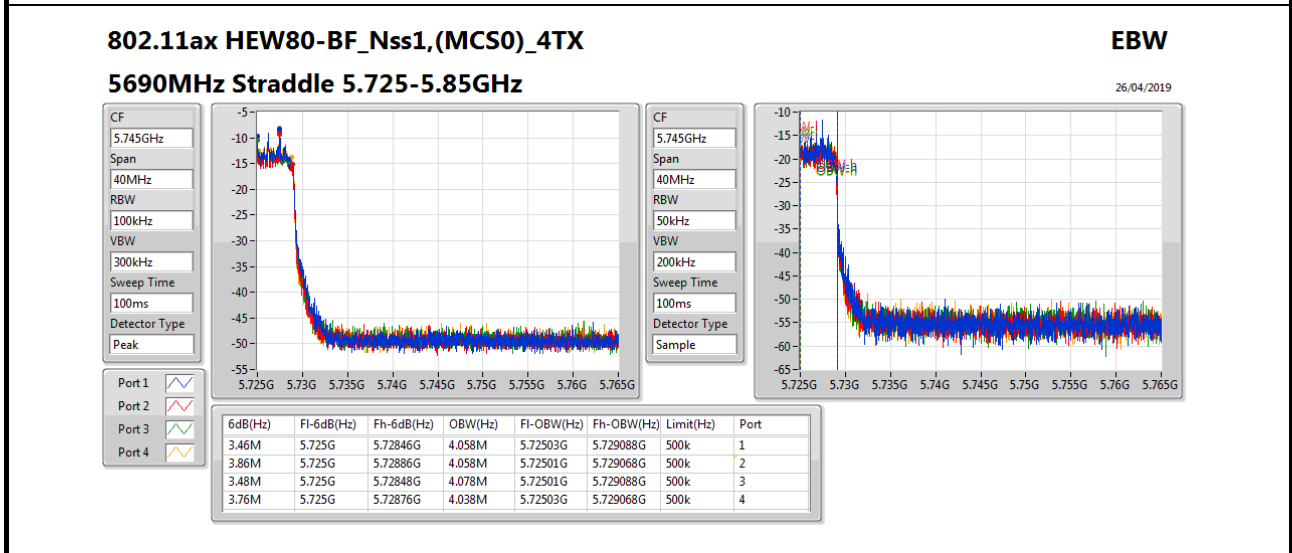
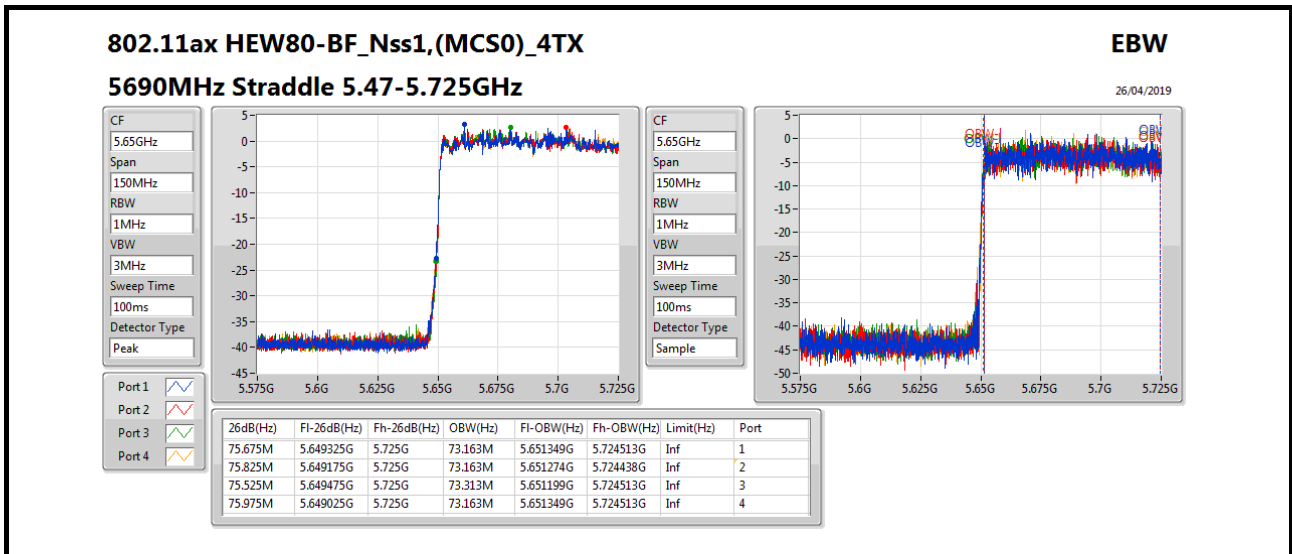


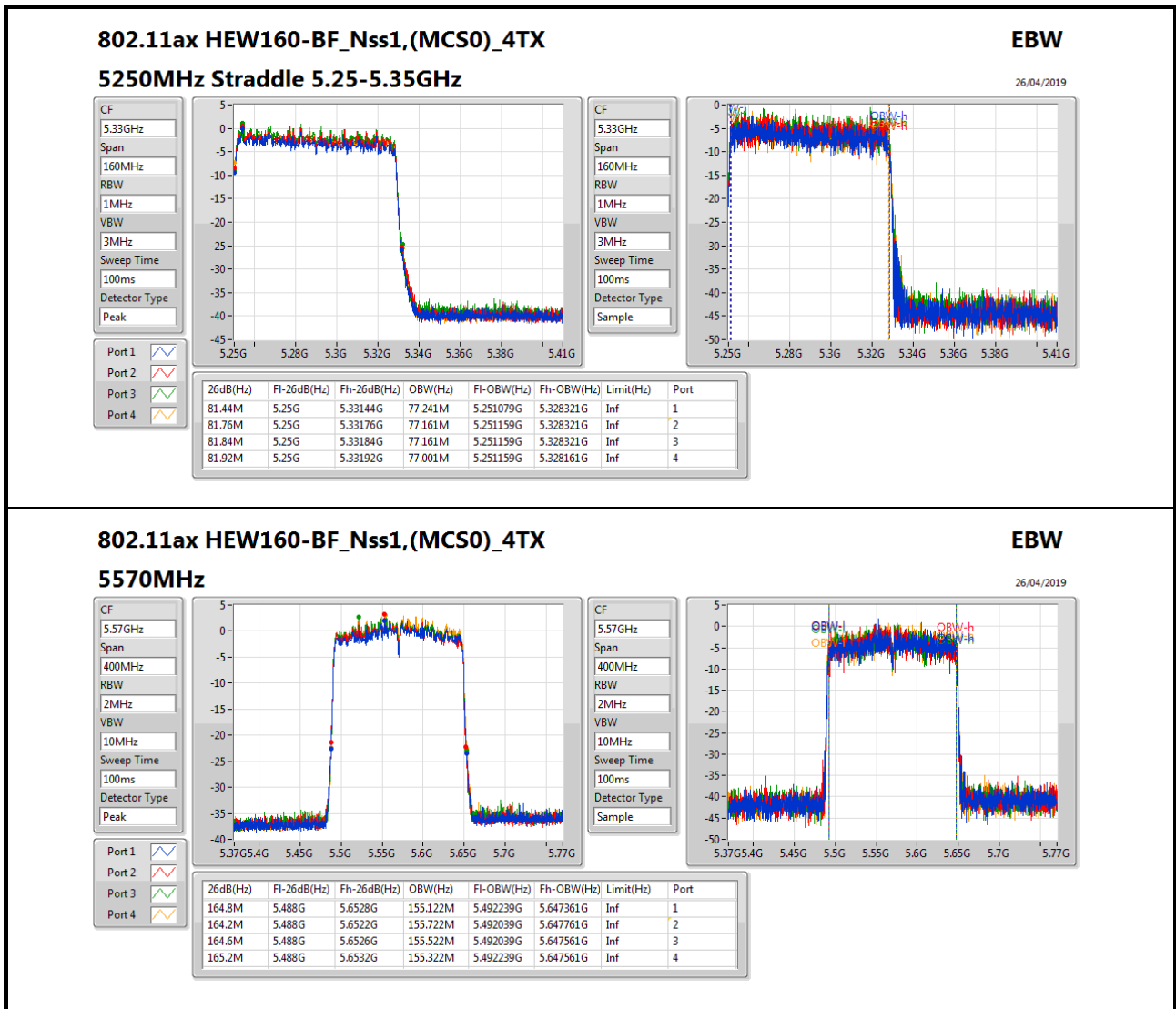














**For Indoor use for 5G Band 1 and Indoor/Outdoor use for 5G Band 2 ~ Band 4:  
Summary**

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	81.28M	77.321M	77M3D1D	80.56M	76.922M
5.25-5.35GHz	-	-	-	-	-
802.11ax HEW20_Nss4,(MCS0)_4TX	22M	18.991M	19M0D1D	21.375M	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	77.161M	77M2D1D	81.7M	76.962M
802.11ax HEW160_Nss4,(MCS0)_4TX	83.12M	77.161M	77M2D1D	81.28M	77.001M
5.47-5.725GHz	-	-	-	-	-
802.11ax HEW20_Nss4,(MCS0)_4TX	21.975M	18.991M	19M0D1D	15.585M	14.498M
802.11ax HEW40_Nss4,(MCS0)_4TX	42.91M	37.681M	37M7D1D	35.21M	33.653M
802.11ax HEW80_Nss4,(MCS0)_4TX	82M	77.161M	77M2D1D	75.525M	73.088M
802.11ax HEW160_Nss4,(MCS0)_4TX	166.2M	155.322M	155MD1D	163.4M	154.923M
5.725-5.85GHz	-	-	-	-	-
802.11ax HEW20_Nss4,(MCS0)_4TX	4.5M	4.518M	4M52D1D	4.42M	4.518M
802.11ax HEW40_Nss4,(MCS0)_4TX	3.9M	7.736M	7M74D1D	3.8M	4.158M
802.11ax HEW80_Nss4,(MCS0)_4TX	3.94M	6.717M	6M72D1D	3.3M	4.138M

**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;

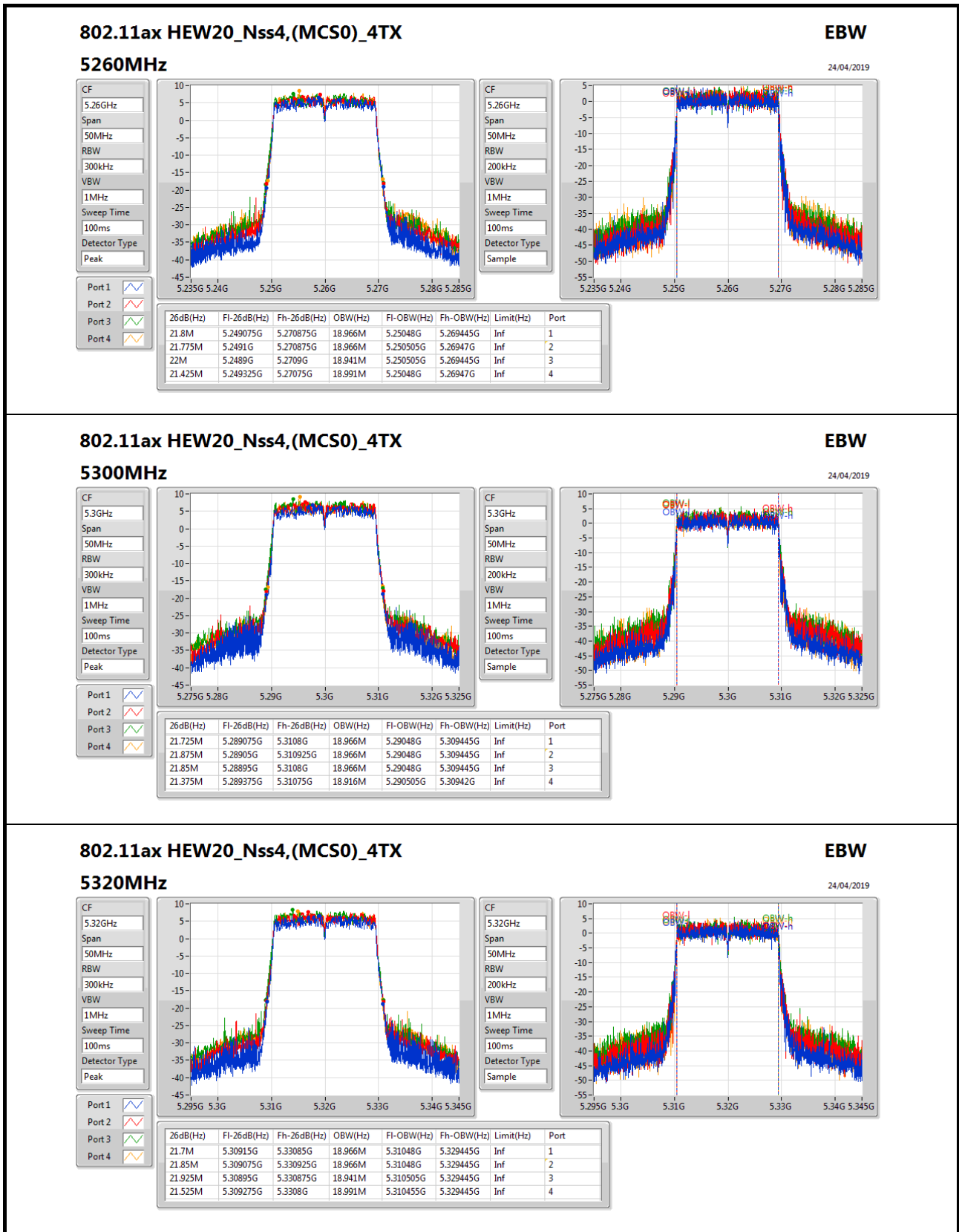


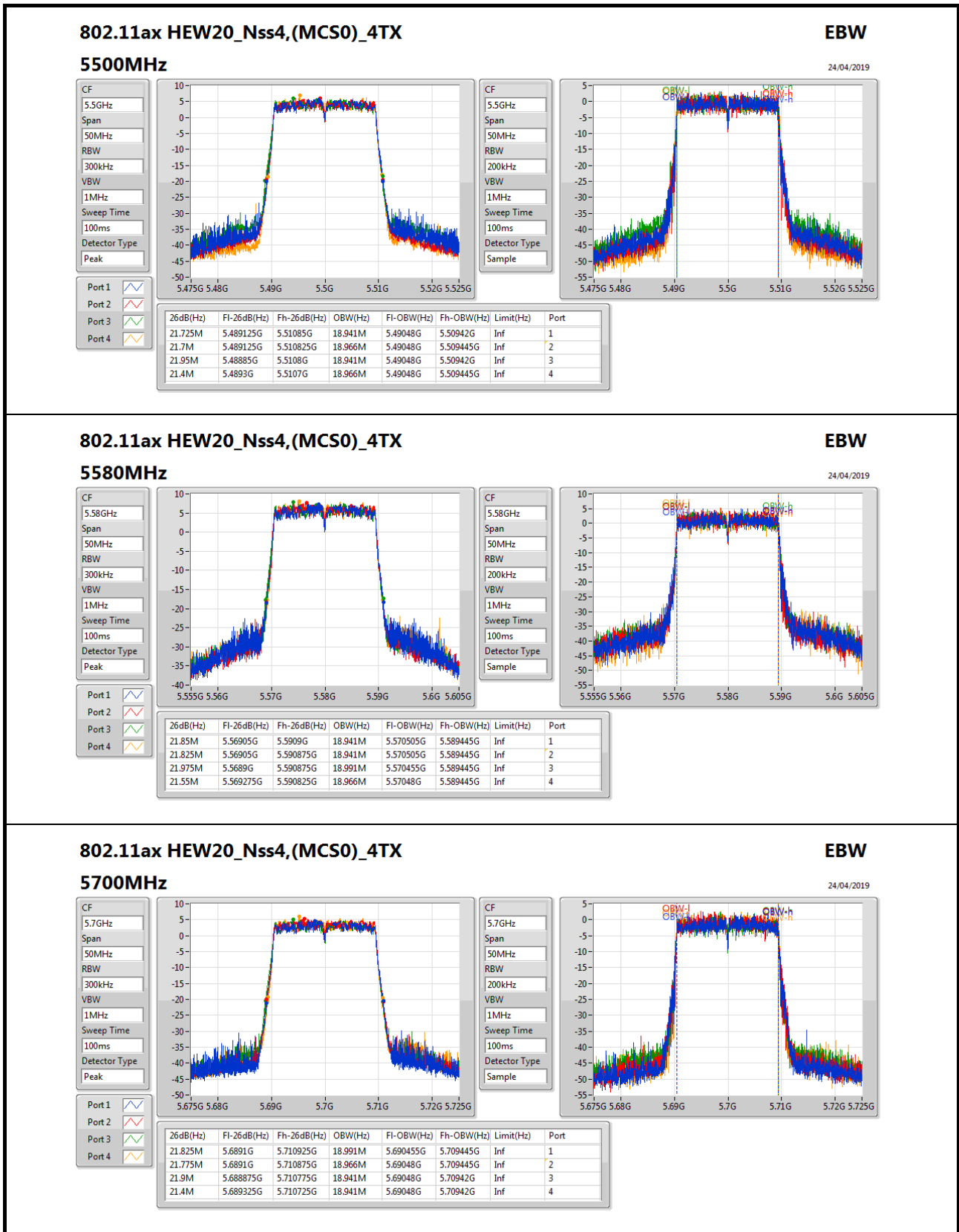
**Result**

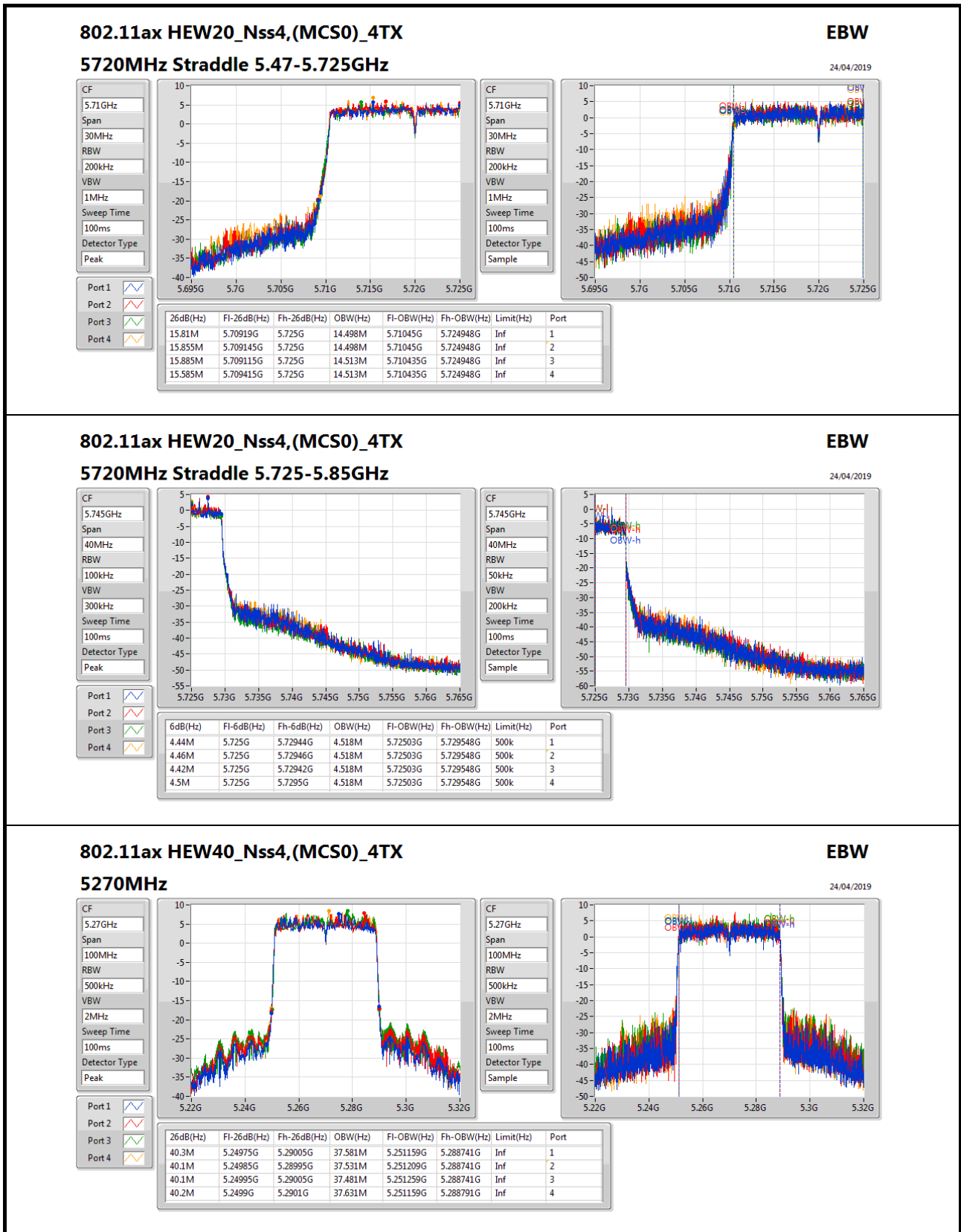
Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)	Port 3-N dB (Hz)	Port 3-OBW (Hz)	Port 4-N dB (Hz)	Port 4-OBW (Hz)
802.11ax HEW20_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5260MHz	Pass	Inf	21.8M	18.966M	21.775M	18.966M	22M	18.941M	21.425M	18.991M
5300MHz	Pass	Inf	21.725M	18.966M	21.875M	18.966M	21.85M	18.966M	21.375M	18.916M
5320MHz	Pass	Inf	21.7M	18.966M	21.85M	18.966M	21.925M	18.941M	21.525M	18.991M
5500MHz	Pass	Inf	21.725M	18.941M	21.7M	18.966M	21.95M	18.941M	21.4M	18.966M
5580MHz	Pass	Inf	21.85M	18.941M	21.825M	18.941M	21.975M	18.991M	21.55M	18.966M
5700MHz	Pass	Inf	21.825M	18.991M	21.775M	18.966M	21.9M	18.941M	21.4M	18.941M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	15.81M	14.498M	15.855M	14.498M	15.885M	14.513M	15.585M	14.513M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	4.44M	4.518M	4.46M	4.518M	4.42M	4.518M	4.5M	4.518M
802.11ax HEW40_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5270MHz	Pass	Inf	40.3M	37.581M	40.1M	37.531M	40.1M	37.481M	40.2M	37.631M
5310MHz	Pass	Inf	40.1M	37.481M	40.1M	37.531M	40.05M	37.531M	40.15M	37.581M
5510MHz	Pass	Inf	40.3M	37.531M	40.1M	37.481M	40.1M	37.481M	40.2M	37.681M
5550MHz	Pass	Inf	40.2M	37.531M	40.2M	37.481M	40.1M	37.531M	40.25M	37.681M
5670MHz	Pass	Inf	40.25M	37.581M	40.1M	37.581M	40.1M	37.481M	40.2M	37.581M
5710MHz Straddle 5.47-5.725GHz	Pass	Inf	42.91M	33.758M	35.21M	33.688M	35.245M	33.653M	35.49M	33.688M
5710MHz Straddle 5.725-5.85GHz	Pass	500k	3.9M	7.736M	3.84M	4.158M	3.8M	7.296M	3.9M	4.418M
802.11ax HEW80_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5290MHz	Pass	Inf	81.7M	76.962M	81.8M	77.161M	81.8M	77.061M	81.9M	76.962M
5530MHz	Pass	Inf	81.5M	76.962M	82M	76.962M	81.8M	77.161M	81.8M	76.962M
5610MHz	Pass	Inf	81.8M	76.962M	81.9M	77.161M	81.7M	77.161M	81.9M	77.161M
5690MHz Straddle 5.47-5.725GHz	Pass	Inf	75.525M	73.238M	76.05M	73.163M	75.975M	73.088M	75.75M	73.238M
5690MHz Straddle 5.725-5.85GHz	Pass	500k	3.74M	6.717M	3.76M	4.138M	3.94M	4.358M	3.3M	5.277M
802.11ax HEW160_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	Inf	81.04M	77.321M	81.28M	77.241M	80.56M	76.922M	81.04M	77.081M
5250MHz Straddle 5.25-5.35GHz	Pass	Inf	83.12M	77.161M	81.68M	77.081M	81.28M	77.001M	81.52M	77.001M
5570MHz	Pass	Inf	166.2M	155.322M	164M	155.322M	163.4M	154.923M	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**

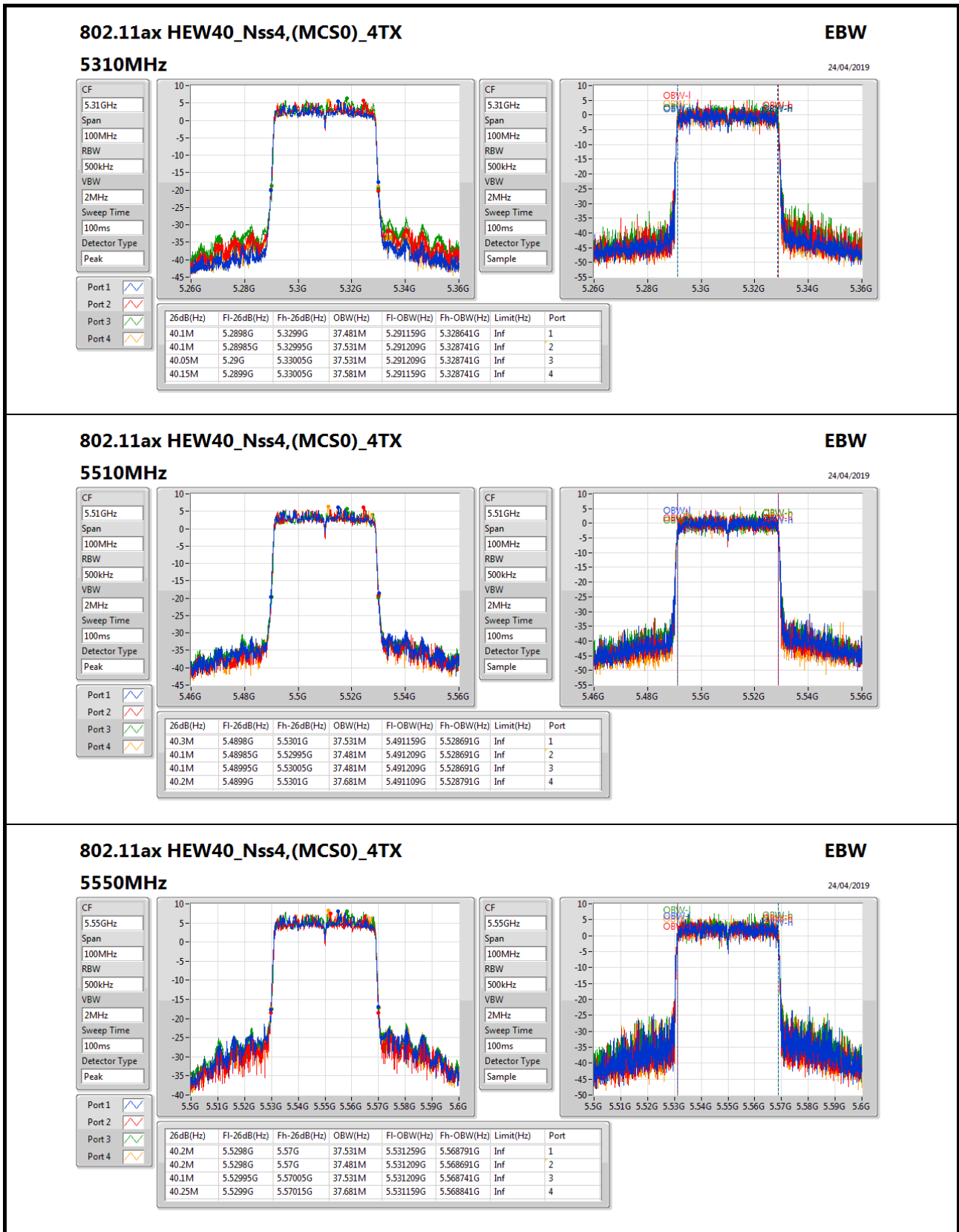
**Port X-OBW = Port X 99% occupied bandwidth;**

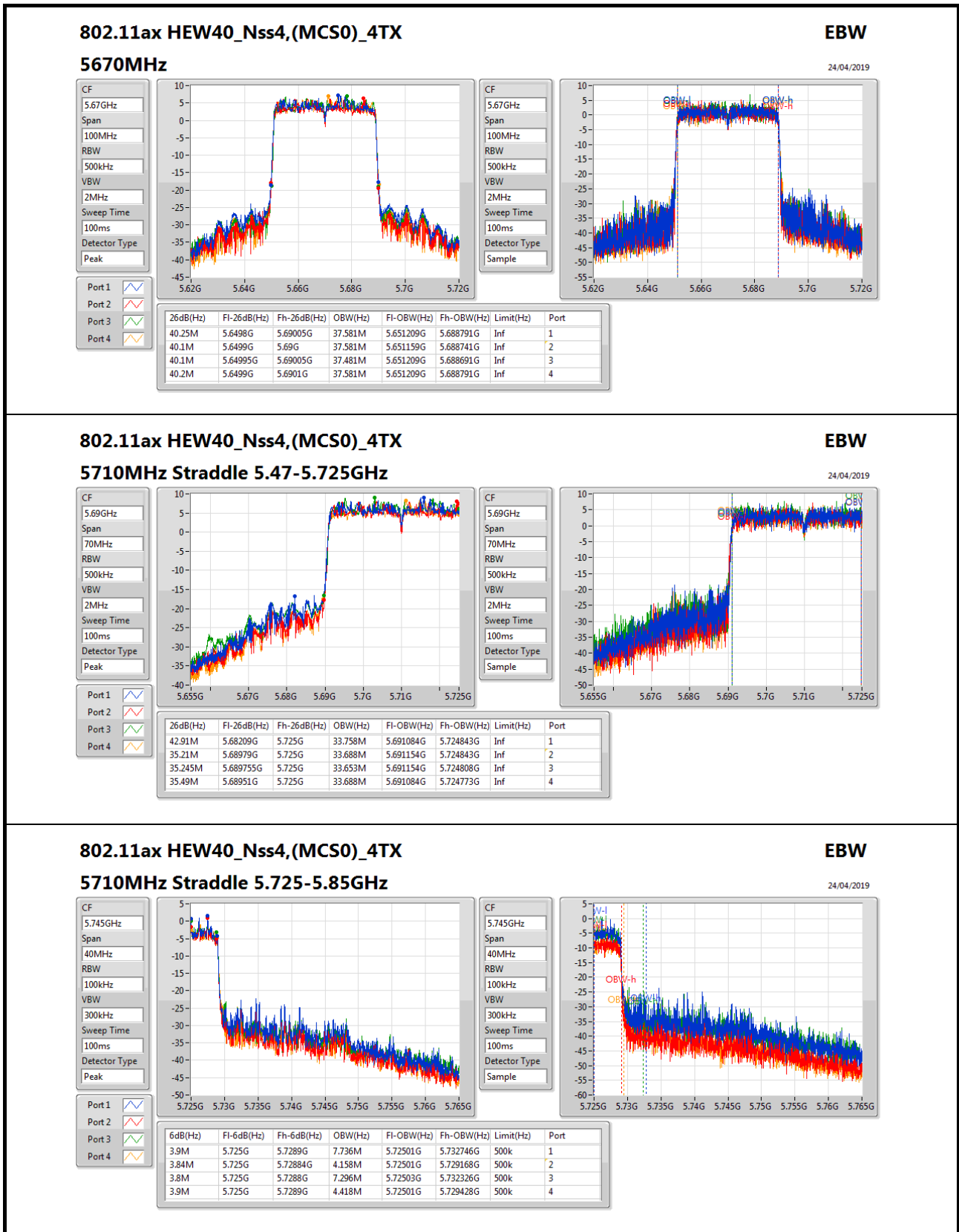


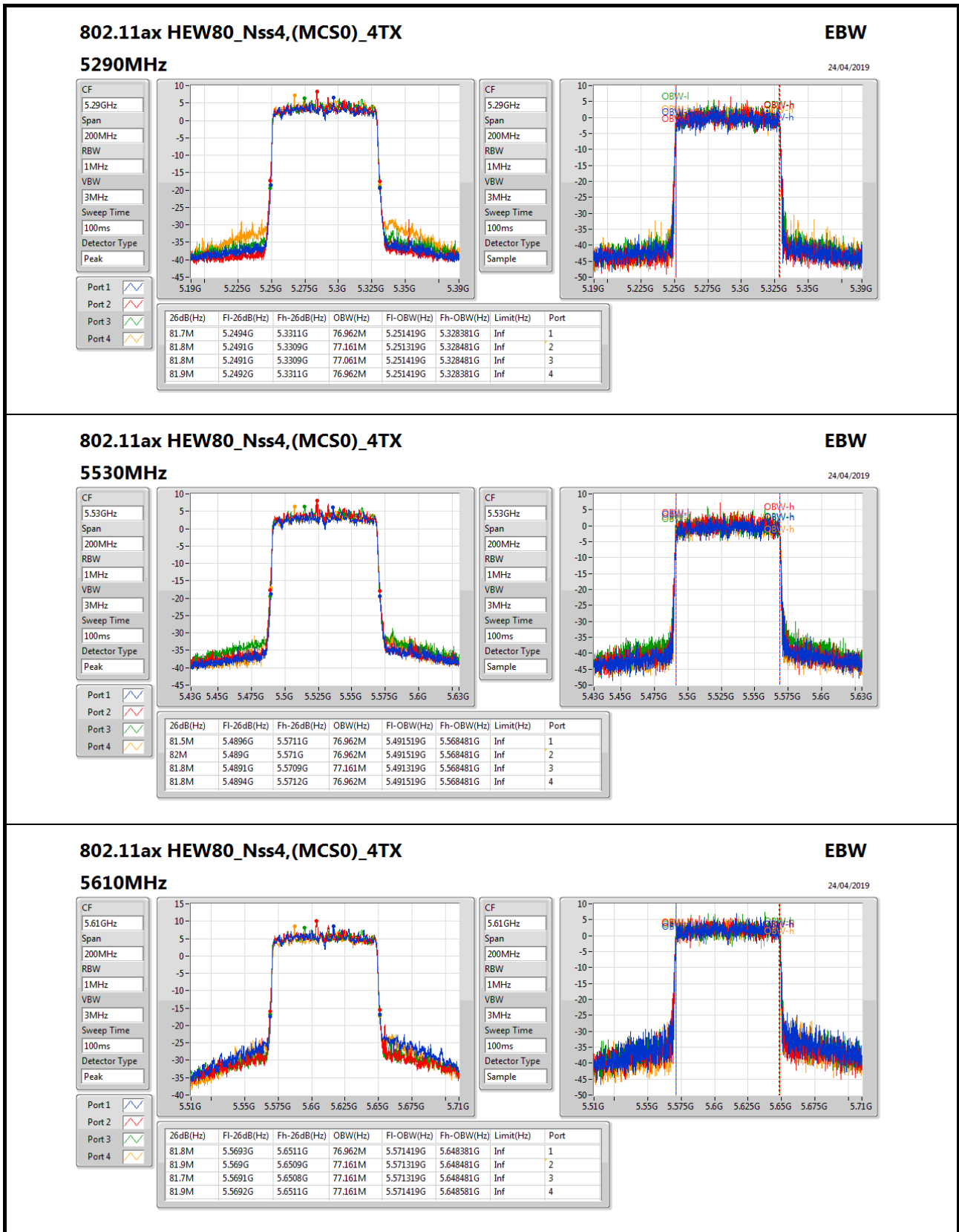


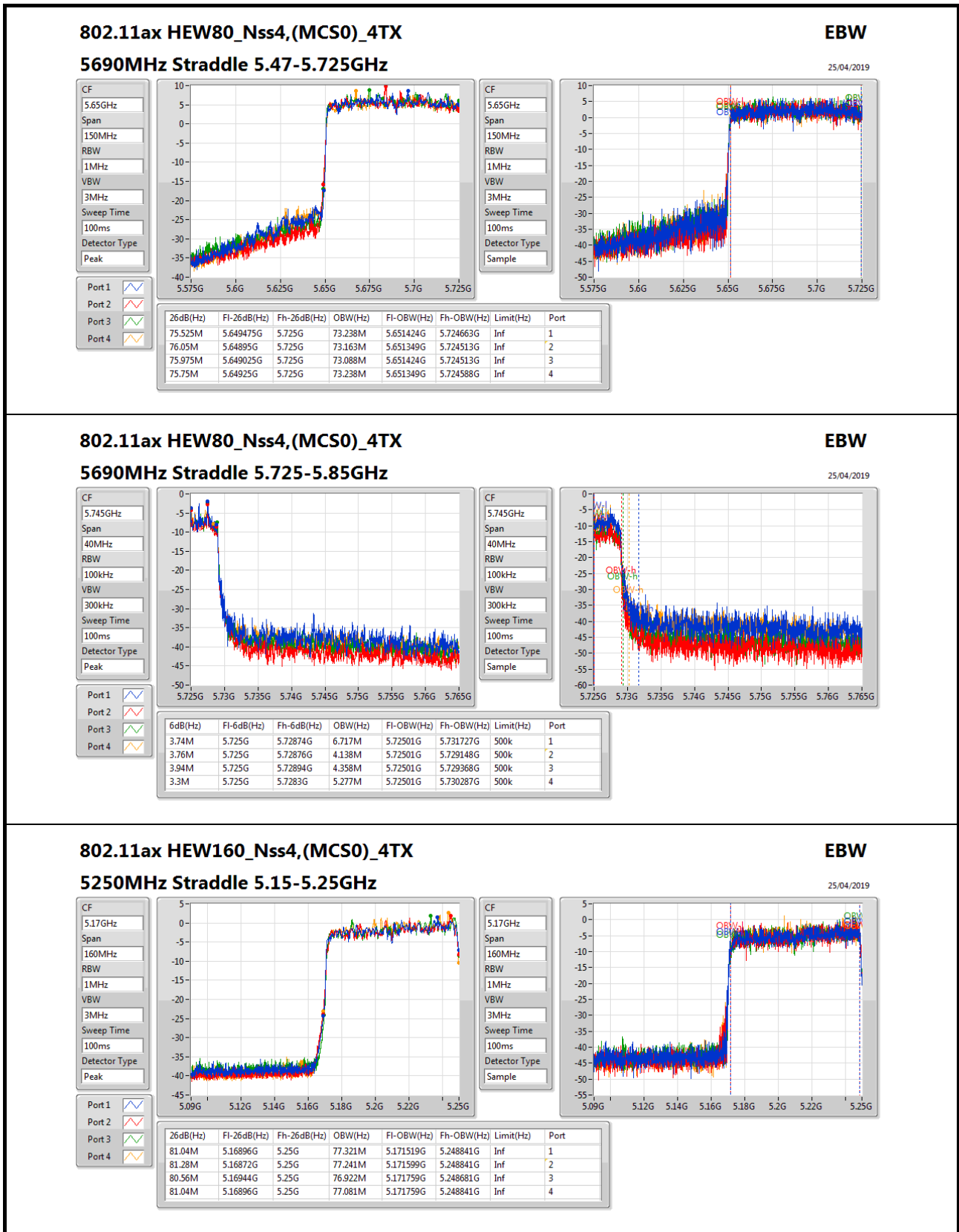


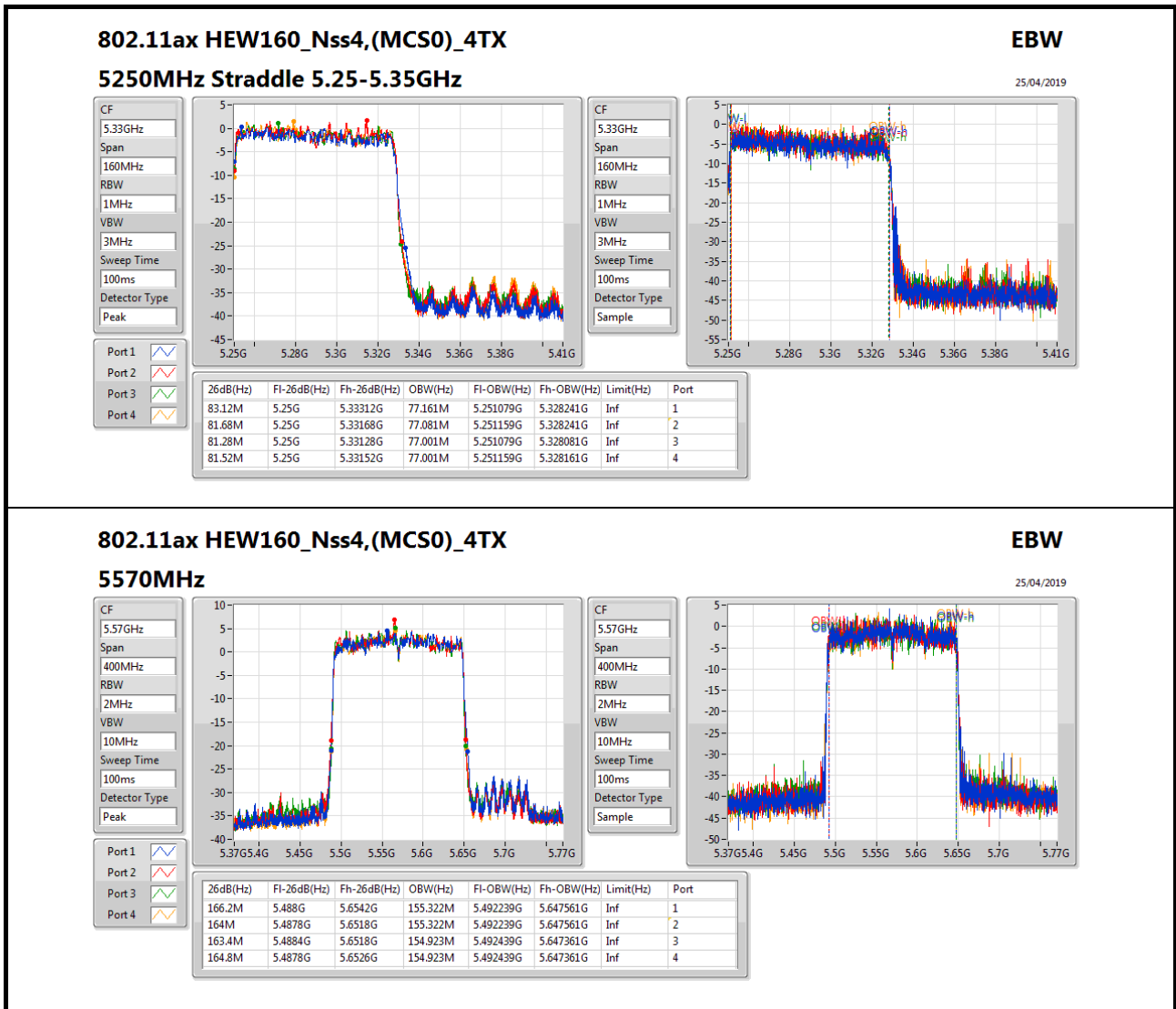














**For Outdoor use for 5G Band 1:  
Summary**

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	81.04M	77.321M	77M3D1D	81.04M	77.321M
5.25-5.35GHz	-	-	-	-	-
802.11ax HEW160_Nss1,(MCS0)_1TX	81.36M	77.001M	77MOD1D	81.36M	77.001M

**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)
802.11ax HEW160_Nss1,(MCS0)_1TX	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	Inf	81.04M	77.321M
5250MHz Straddle 5.25-5.35GHz	Pass	Inf	81.36M	77.001M

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

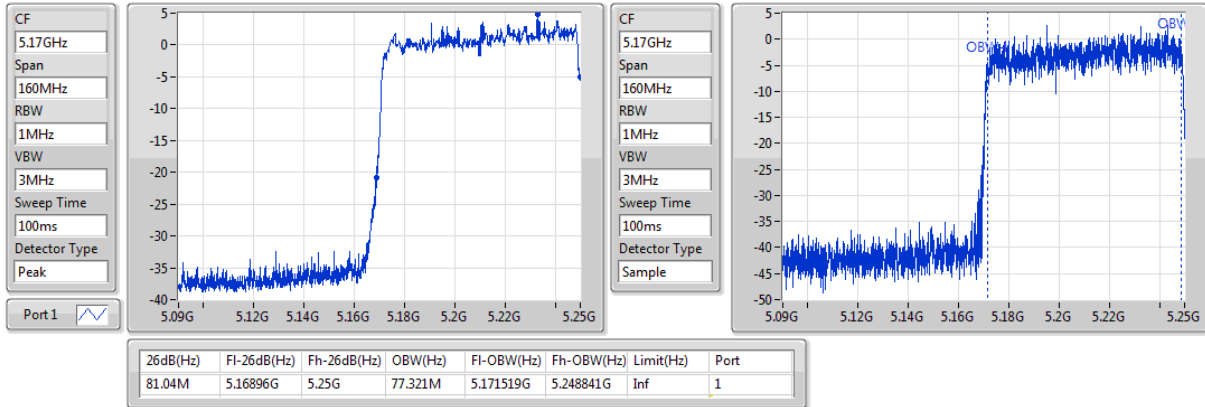
**Port X-OBW** = Port X 99% occupied bandwidth;

802.11ax HEW160\_Nss1,(MCS0)\_1TX

EBW

5250MHz Straddle 5.15-5.25GHz

24/04/2019

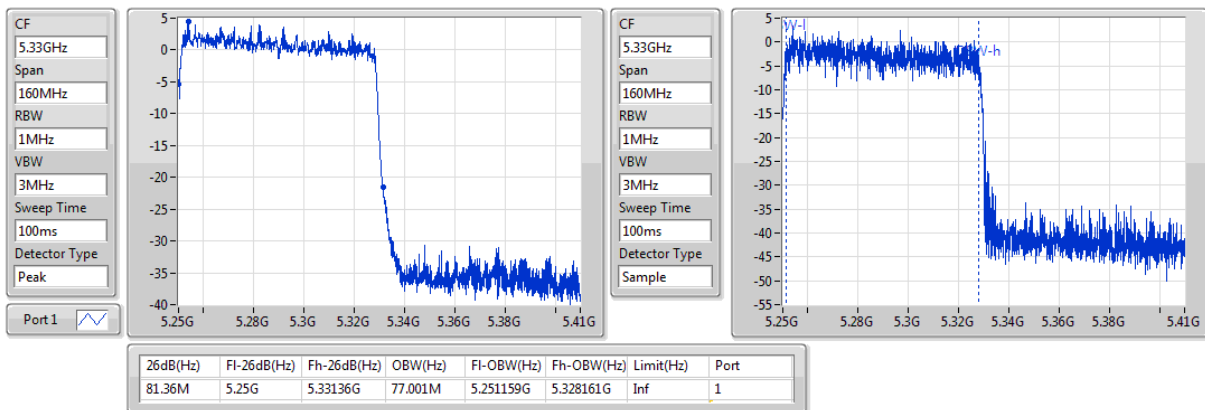


802.11ax HEW160\_Nss1,(MCS0)\_1TX

EBW

5250MHz Straddle 5.25-5.35GHz

24/04/2019







**For Outdoor use for 5G Band 1:  
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	77.161M	77M2D1D	81.36M	77.081M
5.25-5.35GHz	-	-	-	-	-
802.11ax HEW160_Nss2,(MCS0)_2TX	81.52M	77.161M	77M2D1D	80.96M	77.001M

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

**Max-OBW** = Maximum 99% occupied bandwidth;

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

**Min-OBW** = Minimum 99% occupied bandwidth;



**Result**

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
802.11ax HEW160_Nss2,(MCS0)_2TX	-	-	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	Inf	81.36M	77.161M	81.92M	77.081M
5250MHz Straddle 5.25-5.35GHz	Pass	Inf	81.52M	77.001M	80.96M	77.161M

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

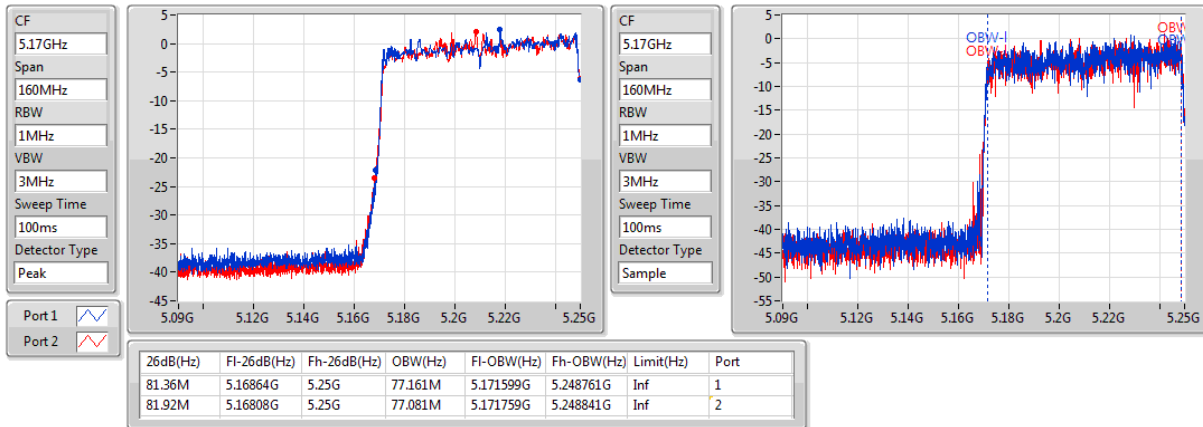
**Port X-OBW** = Port X 99% occupied bandwidth;

802.11ax HEW160\_Nss2,(MCS0)\_2TX

EBW

5250MHz Straddle 5.15-5.25GHz

24/04/2019

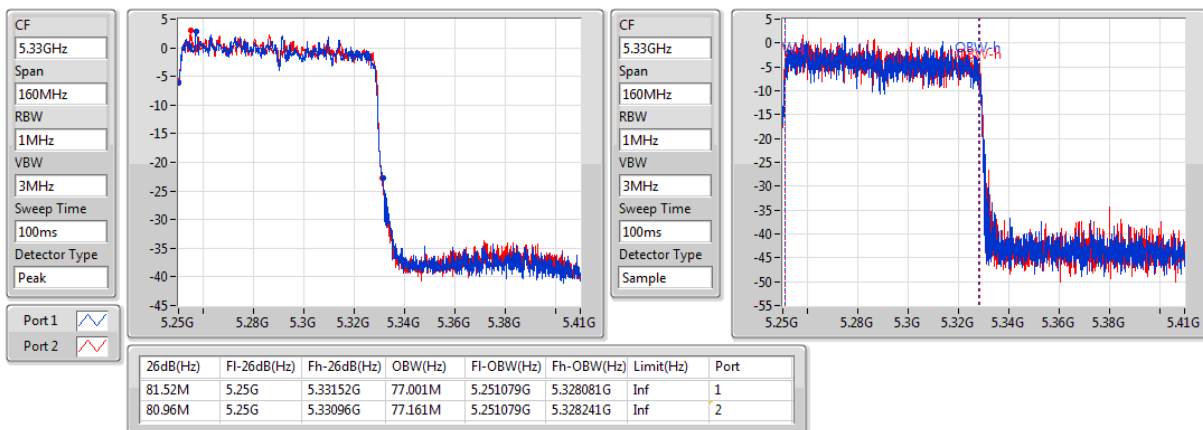


802.11ax HEW160\_Nss2,(MCS0)\_2TX

EBW

5250MHz Straddle 5.25-5.35GHz

24/04/2019





**For Outdoor use for 5G Band 1:  
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	81.2M	77.241M	77M2D1D	80.48M	77.161M
5.25-5.35GHz	-	-	-	-	-
802.11ax HEW160_Nss1,(MCS0)_4TX	81.44M	77.241M	77M2D1D	81.12M	77.001M

**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 HEW160_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	Inf	81.2M	77.161M	80.8M	77.241M	80.48M	77.161M	80.8M	77.161M
5250MHz Straddle 5.25-5.35GHz	Pass	Inf	81.44M	77.161M	81.44M	77.241M	81.12M	77.001M	81.36M	77.081M

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

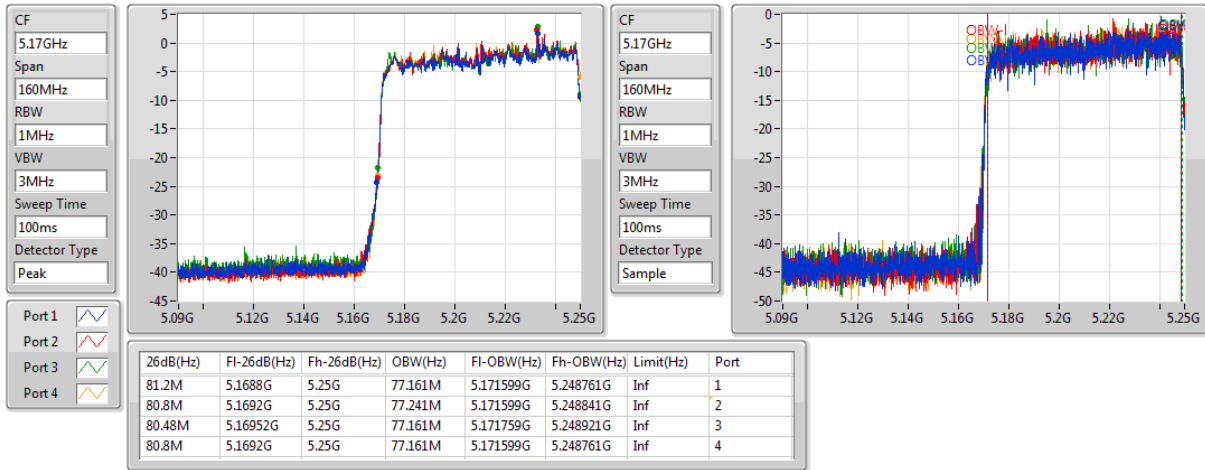
**Port X-OBW** = Port X 99% occupied bandwidth;

802.11ax HEW160\_Nss1,(MCS0)\_4TX

EBW

5250MHz Straddle 5.15-5.25GHz

24/04/2019

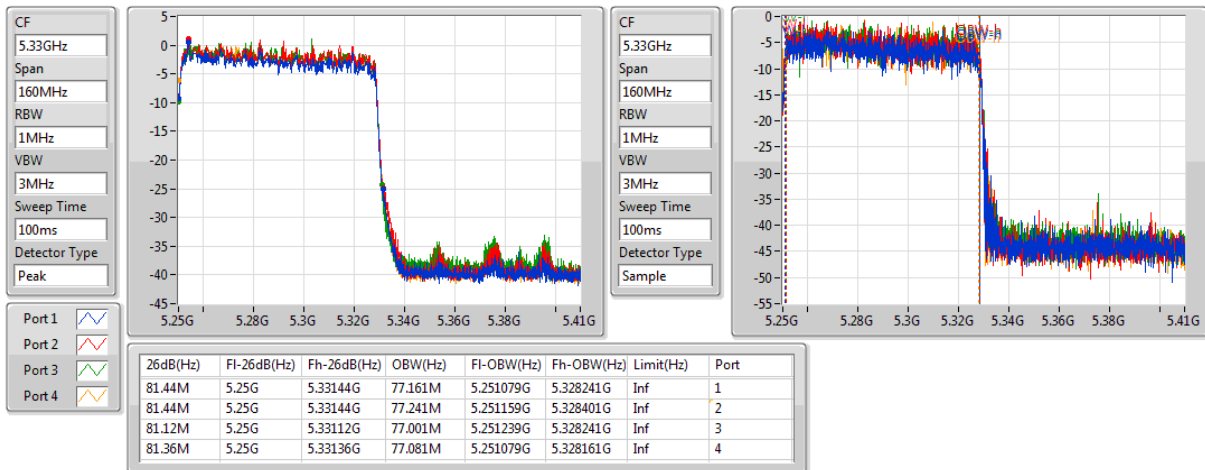


802.11ax HEW160\_Nss1,(MCS0)\_4TX

EBW

5250MHz Straddle 5.25-5.35GHz

24/04/2019





**For Outdoor use for 5G Band 1:  
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	81.12M	77.321M	77M3D1D	80.56M	77.081M
5.25-5.35GHz	-	-	-	-	-
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	82M	77.241M	77M2D1D	81.36M	77.081M

**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 HEW160-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	Inf	81.12M	77.081M	80.8M	77.321M	80.8M	77.081M	80.56M	77.161M
5250MHz Straddle 5.25-5.35GHz	Pass	Inf	81.6M	77.241M	81.76M	77.161M	81.36M	77.161M	82M	77.081M

**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;

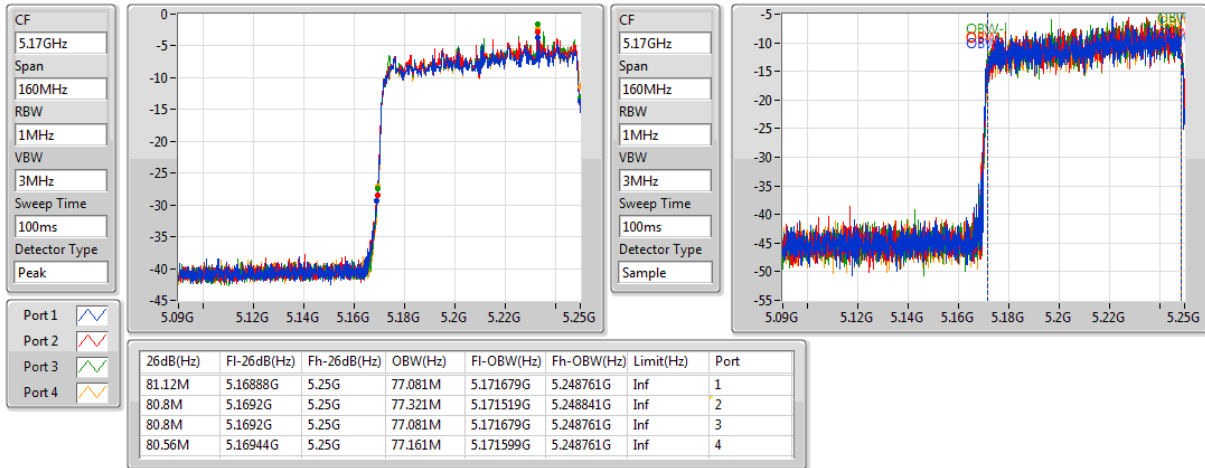


802.11ax HEW160-BF\_Nss1,(MCS0)\_4TX

EBW

5250MHz Straddle 5.15-5.25GHz

15/05/2019

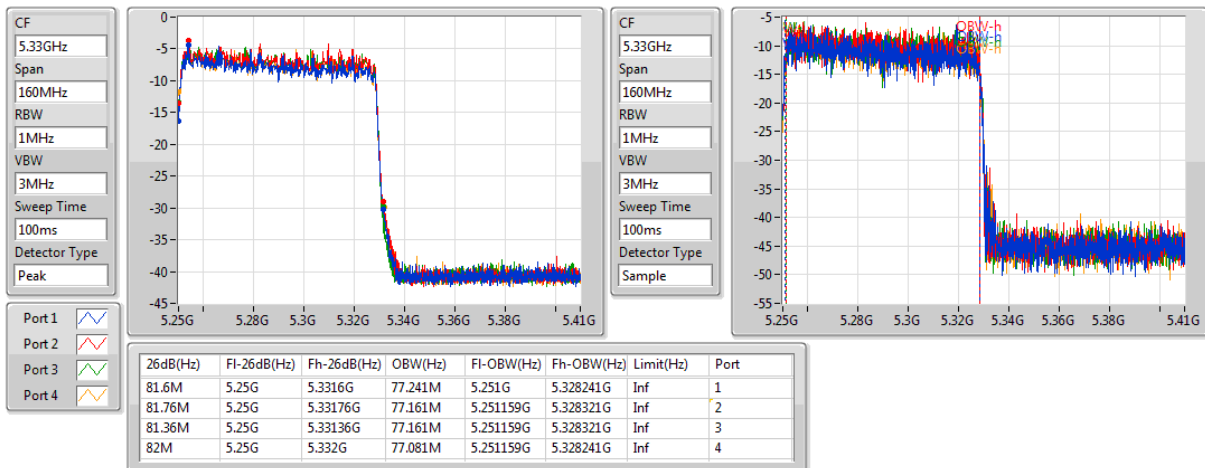


802.11ax HEW160-BF\_Nss1,(MCS0)\_4TX

EBW

5250MHz Straddle 5.25-5.35GHz

15/05/2019





**For Outdoor use for 5G Band 1:  
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	81.28M	77.321M	77M3D1D	80.56M	76.922M
5.25-5.35GHz	-	-	-	-	-
802.11ax HEW160_Nss4,(MCS0)_4TX	83.12M	77.161M	77M2D1D	81.28M	77.001M

**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 HEW160_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	Inf	81.04M	77.321M	81.28M	77.241M	80.56M	76.922M	81.04M	77.081M
5250MHz Straddle 5.25-5.35GHz	Pass	Inf	83.12M	77.161M	81.68M	77.081M	81.28M	77.001M	81.52M	77.001M

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

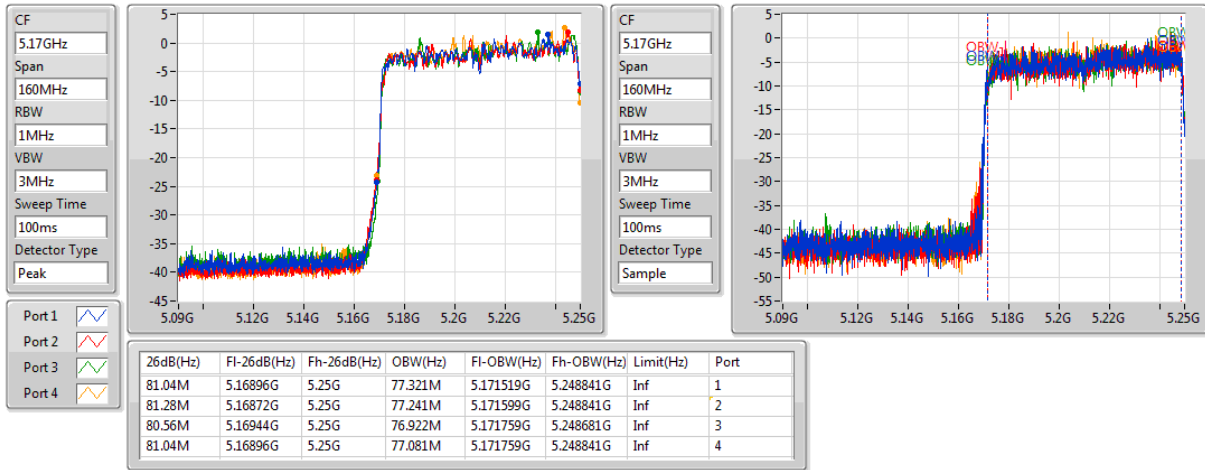
**Port X-OBW** = Port X 99% occupied bandwidth;

802.11ax HEW160\_Nss4,(MCS0)\_4TX

EBW

5250MHz Straddle 5.15-5.25GHz

25/04/2019

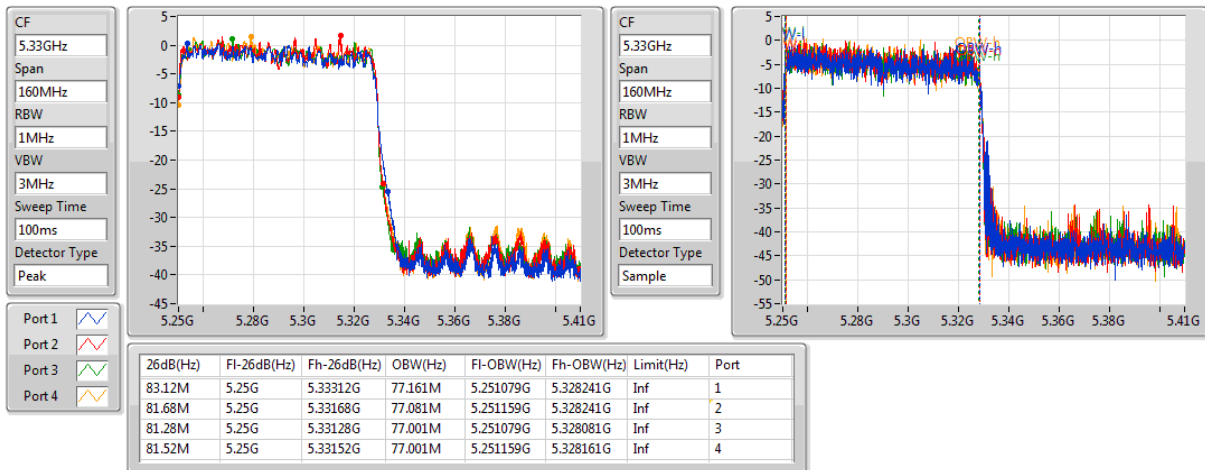


802.11ax HEW160\_Nss4,(MCS0)\_4TX

EBW

5250MHz Straddle 5.25-5.35GHz

25/04/2019





**For Indoor use for 5G Band 1 and Indoor/Outdoor use for 5G Band 2 ~ Band 4:  
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	80.8M	77.081M	77M1D1D	80.8M	77.081M
5.25-5.35GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	27.375M	16.667M	16M7D1D	21.95M	16.617M
802.11ax HEW20_Nss1,(MCS0)_1TX	36.575M	19.04M	19M0D1D	36.425M	19.015M
802.11ax HEW40_Nss1,(MCS0)_1TX	64.9M	37.681M	37M7D1D	40M	37.531M
802.11ax HEW80_Nss1,(MCS0)_1TX	81.8M	77.061M	77M1D1D	81.8M	77.061M
802.11ax HEW160_Nss1,(MCS0)_1TX	81.44M	77.321M	77M3D1D	81.44M	77.321M
5.47-5.725GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	42.325M	17.666M	17M7D1D	21.55M	14.903M
802.11ax HEW20_Nss1,(MCS0)_1TX	43.575M	19.315M	19M3D1D	23.25M	14.663M
802.11ax HEW40_Nss1,(MCS0)_1TX	84.35M	38.881M	38M9D1D	39.95M	34.003M
802.11ax HEW80_Nss1,(MCS0)_1TX	142M	77.561M	77M6D1D	81.9M	74.138M
802.11ax HEW160_Nss1,(MCS0)_1TX	164.6M	155.522M	156MD1D	164.6M	155.522M
5.725-5.85GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	3.14M	11.474M	11M5D1D	3.14M	11.474M
802.11ax HEW20_Nss1,(MCS0)_1TX	4.48M	12.154M	12M2D1D	4.48M	12.154M
802.11ax HEW40_Nss1,(MCS0)_1TX	3.96M	26.207M	26M2D1D	3.96M	26.207M
802.11ax HEW80_Nss1,(MCS0)_1TX	3.28M	36.142M	36M1D1D	3.28M	36.142M

**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;

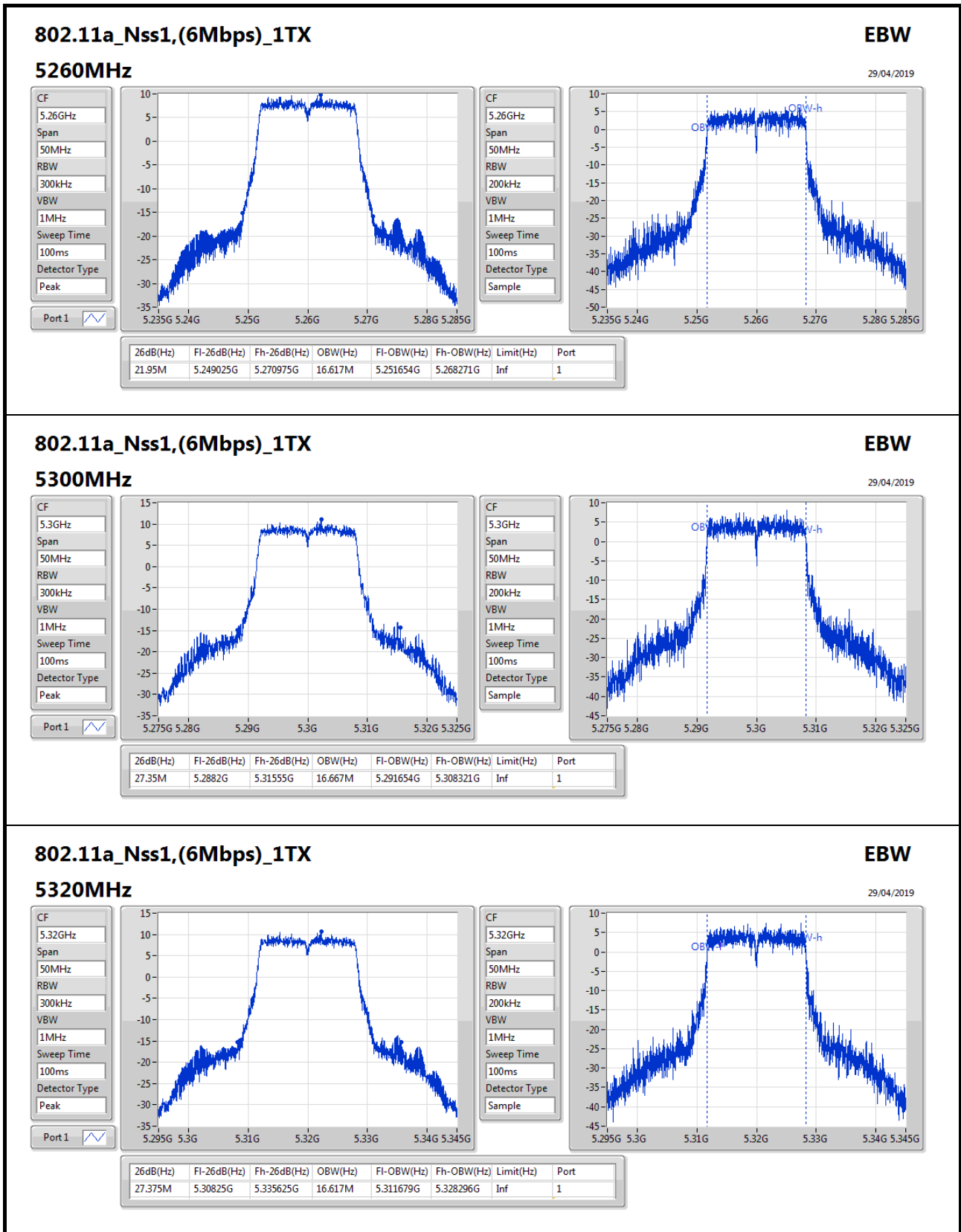
**Min-OBW** = Minimum 99% occupied bandwidth;

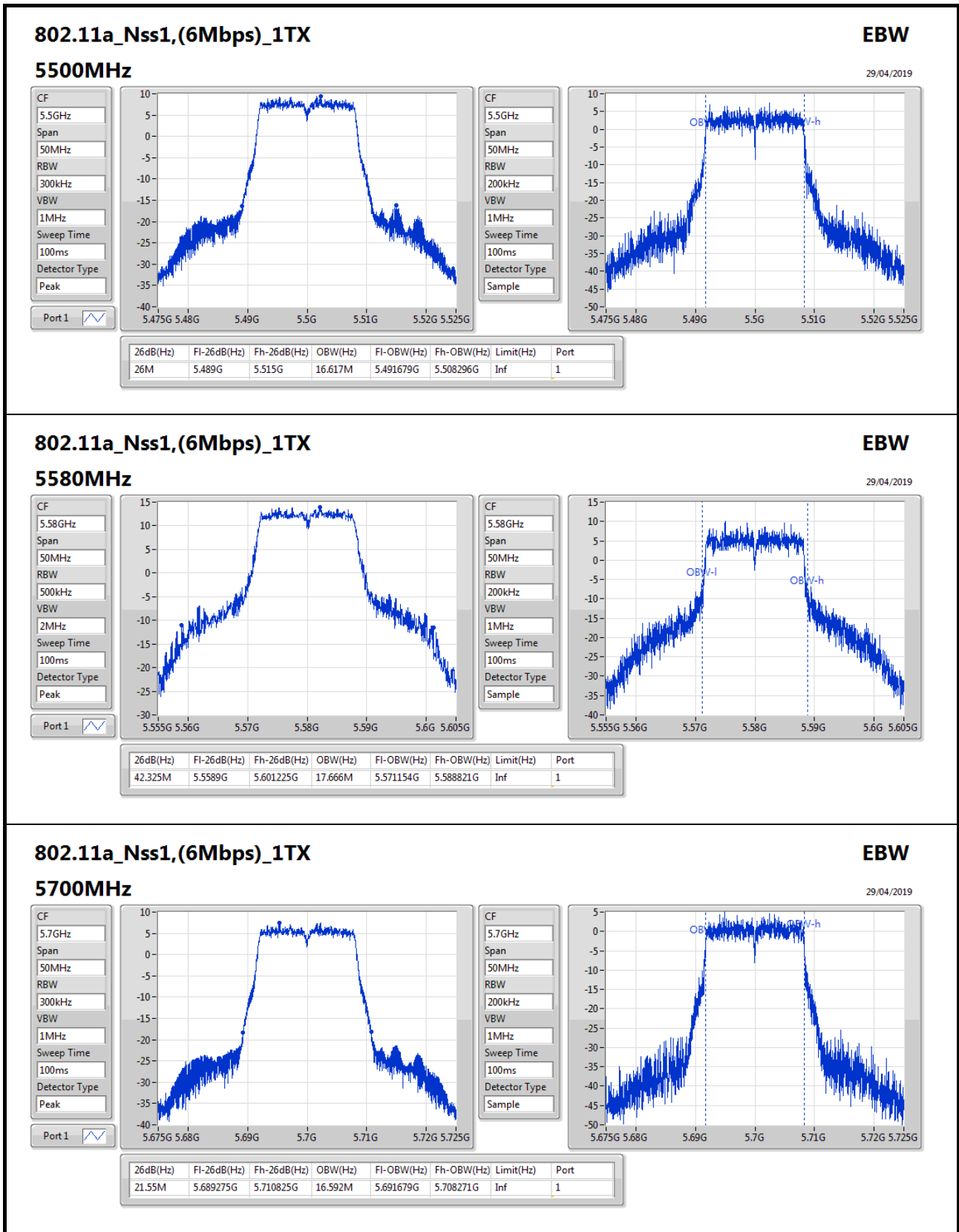


**Result**

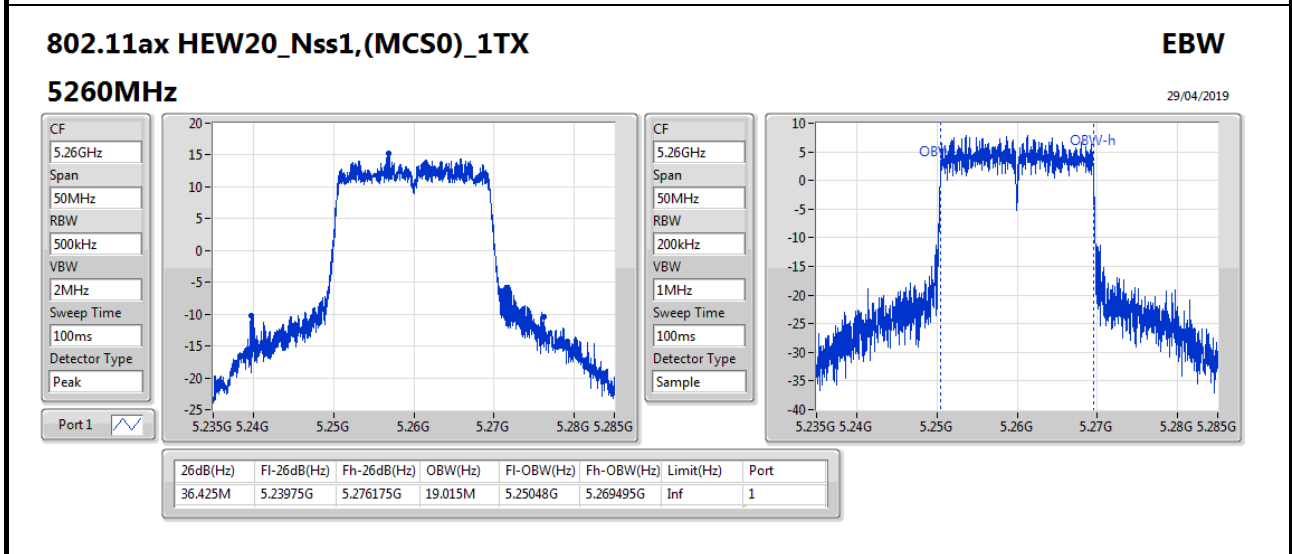
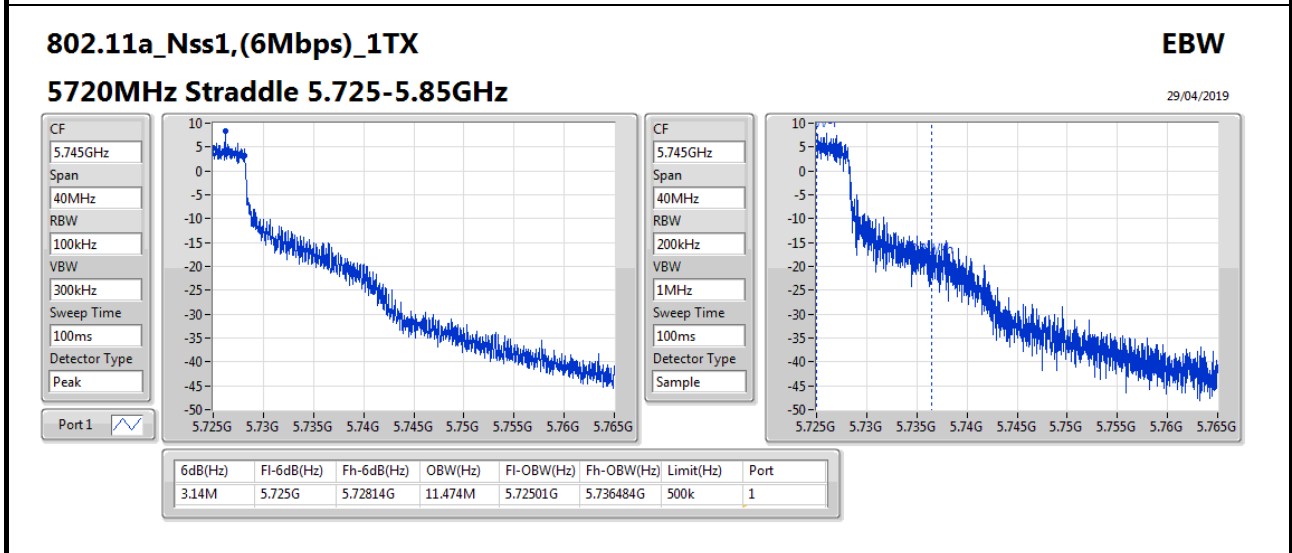
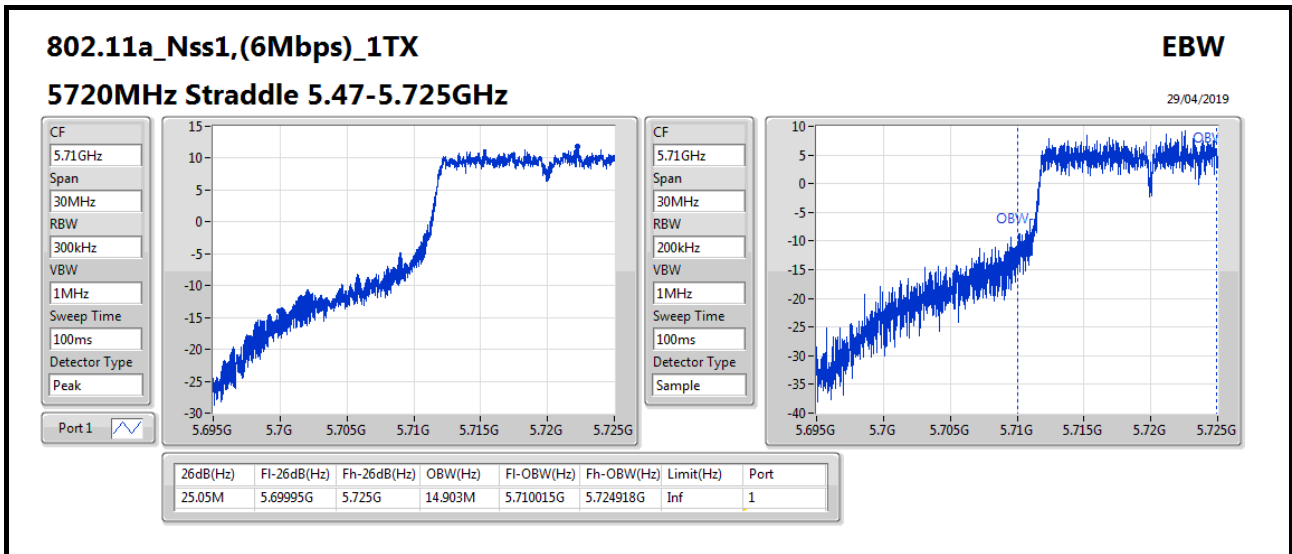
Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
802.11a_Nss1,(6Mbps)_1TX	-	-	-	-
5260MHz	Pass	Inf	21.95M	16.617M
5300MHz	Pass	Inf	27.35M	16.667M
5320MHz	Pass	Inf	27.375M	16.617M
5500MHz	Pass	Inf	26M	16.617M
5580MHz	Pass	Inf	42.325M	17.666M
5700MHz	Pass	Inf	21.55M	16.592M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	25.05M	14.903M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	3.14M	11.474M
802.11ax HEW20_Nss1,(MCS0)_1TX	-	-	-	-
5260MHz	Pass	Inf	36.425M	19.015M
5300MHz	Pass	Inf	36.575M	19.04M
5320MHz	Pass	Inf	36.55M	19.04M
5500MHz	Pass	Inf	23.25M	18.966M
5580MHz	Pass	Inf	43.575M	19.315M
5700MHz	Pass	Inf	23.35M	18.941M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	25.56M	14.663M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	4.48M	12.154M
802.11ax HEW40_Nss1,(MCS0)_1TX	-	-	-	-
5270MHz	Pass	Inf	64.9M	37.681M
5310MHz	Pass	Inf	40M	37.531M
5510MHz	Pass	Inf	39.95M	37.531M
5550MHz	Pass	Inf	84.35M	38.881M
5670MHz	Pass	Inf	44.1M	37.581M
5710MHz Straddle 5.47-5.725GHz	Pass	Inf	53.235M	34.003M
5710MHz Straddle 5.725-5.85GHz	Pass	500k	3.96M	26.207M
802.11ax HEW80_Nss1,(MCS0)_1TX	-	-	-	-
5290MHz	Pass	Inf	81.8M	77.061M
5530MHz	Pass	Inf	81.9M	77.061M
5610MHz	Pass	Inf	142M	77.561M
5690MHz Straddle 5.47-5.725GHz	Pass	Inf	125.475M	74.138M
5690MHz Straddle 5.725-5.85GHz	Pass	500k	3.28M	36.142M
802.11ax HEW160_Nss1,(MCS0)_1TX	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	Inf	80.8M	77.081M
5250MHz Straddle 5.25-5.35GHz	Pass	Inf	81.44M	77.321M
5570MHz	Pass	Inf	164.6M	155.522M

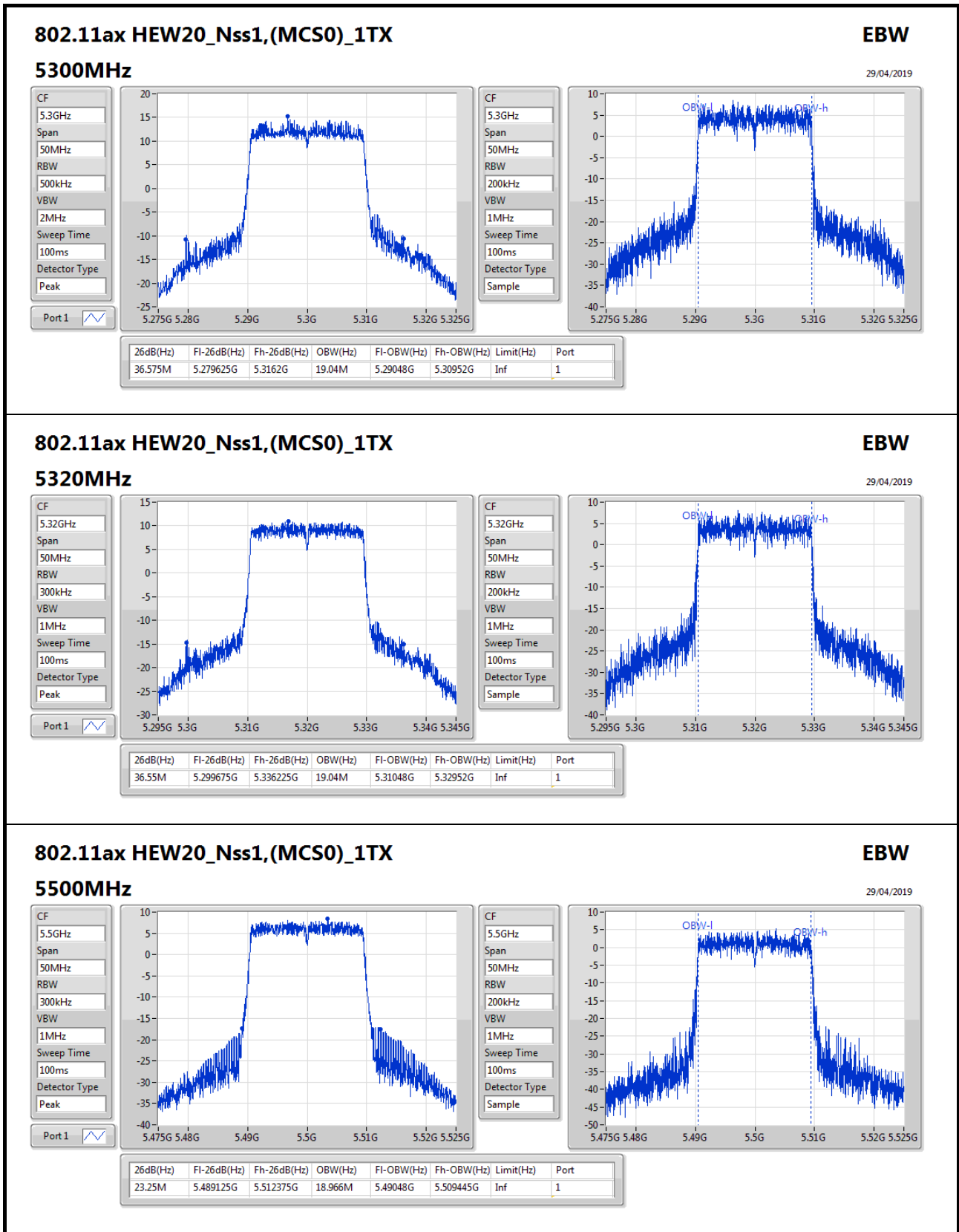
Port X-N dB = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band  
 Port X-OBW = Port X 99% occupied bandwidth;

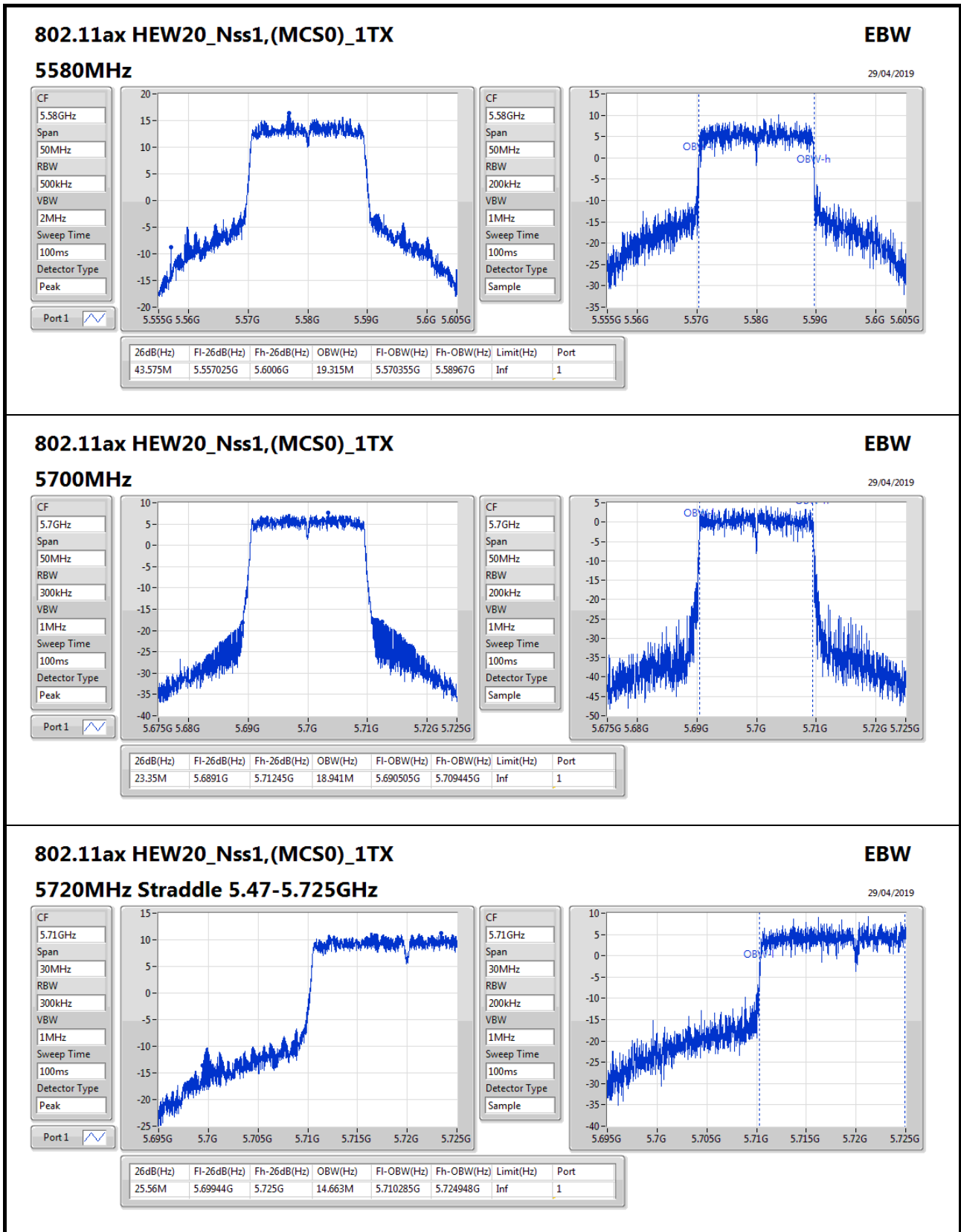


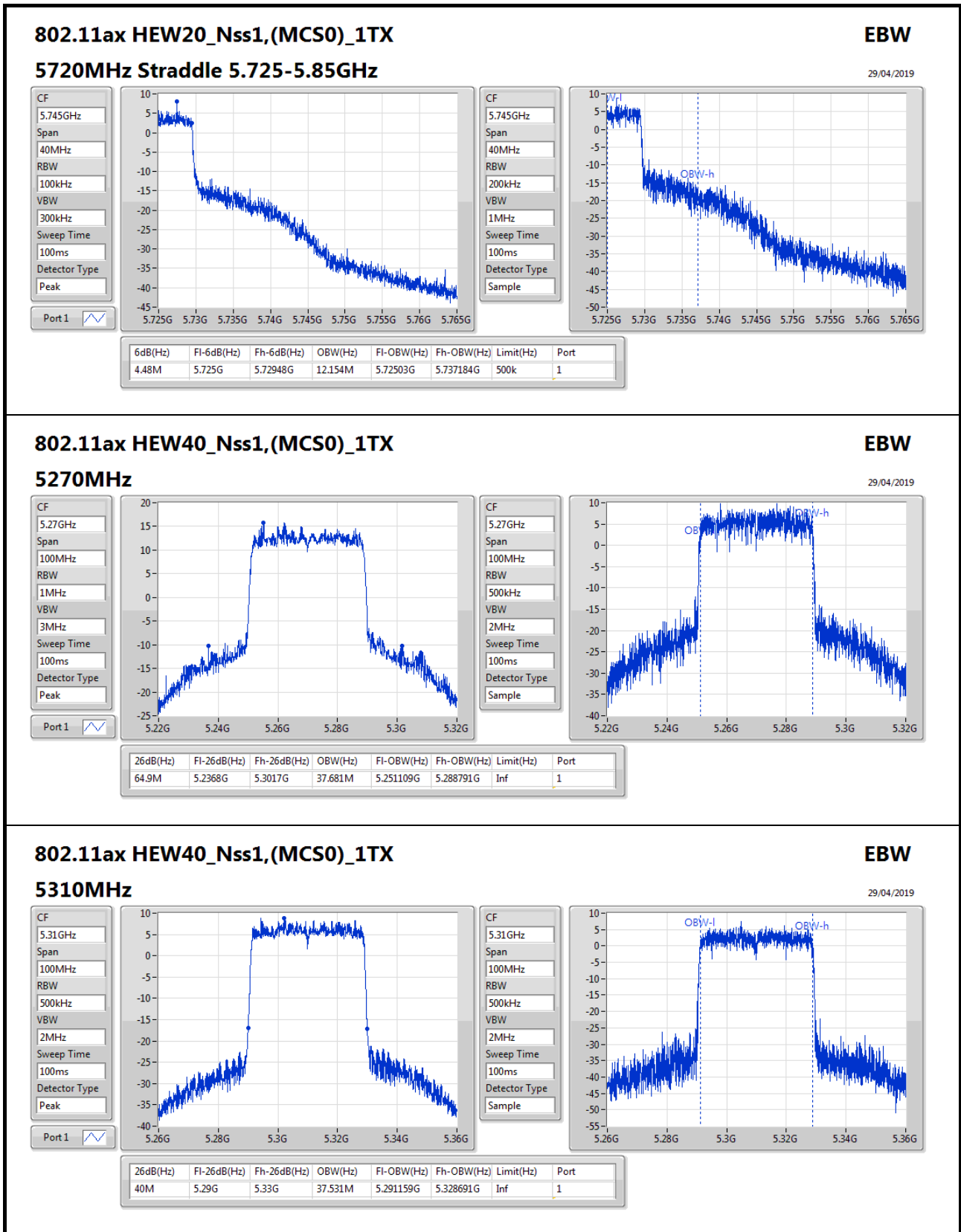


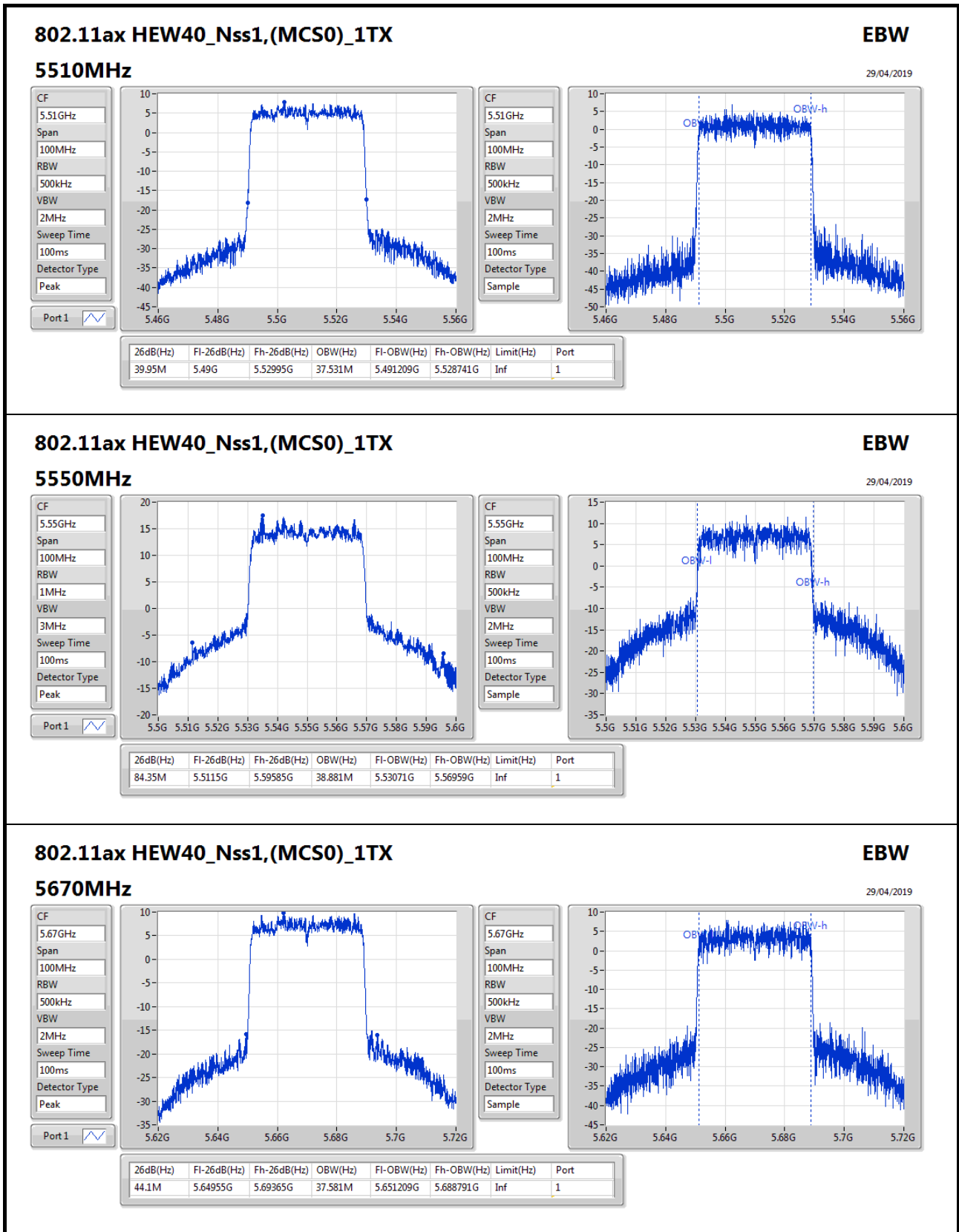











**802.11ax HEW40\_Nss1,(MCS0)\_1TX**
**EBW**

29/04/2019

**5670MHz**

CF: 5.67GHz

Span: 100MHz

RBW: 500kHz

VBW: 2MHz

Sweep Time: 100ms

Detector Type: Peak

Port 1

CF: 5.67GHz

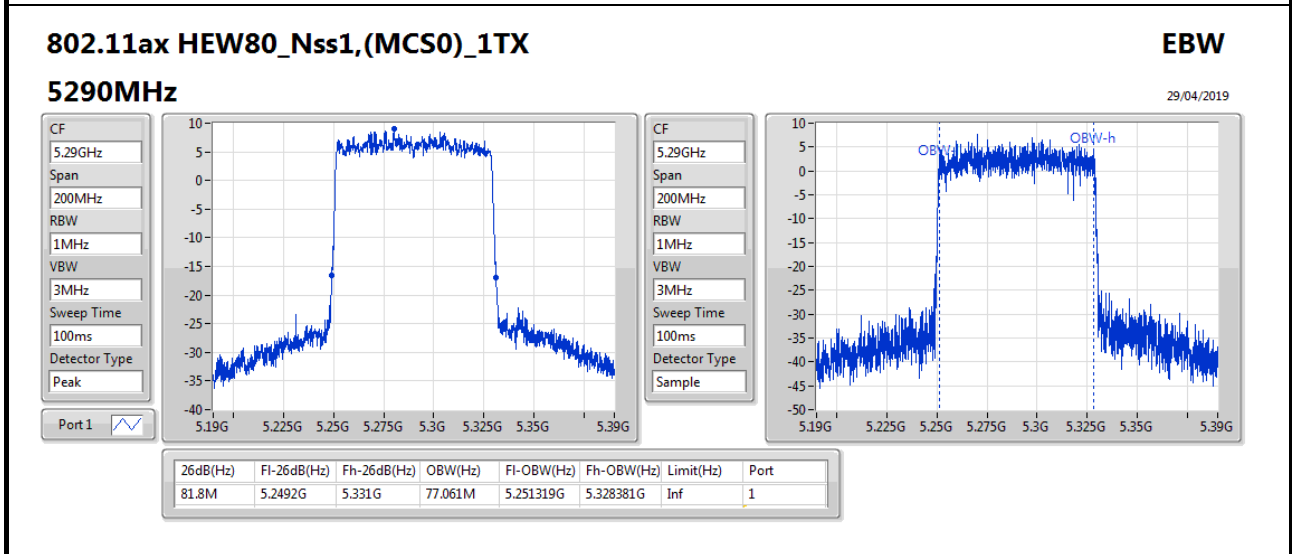
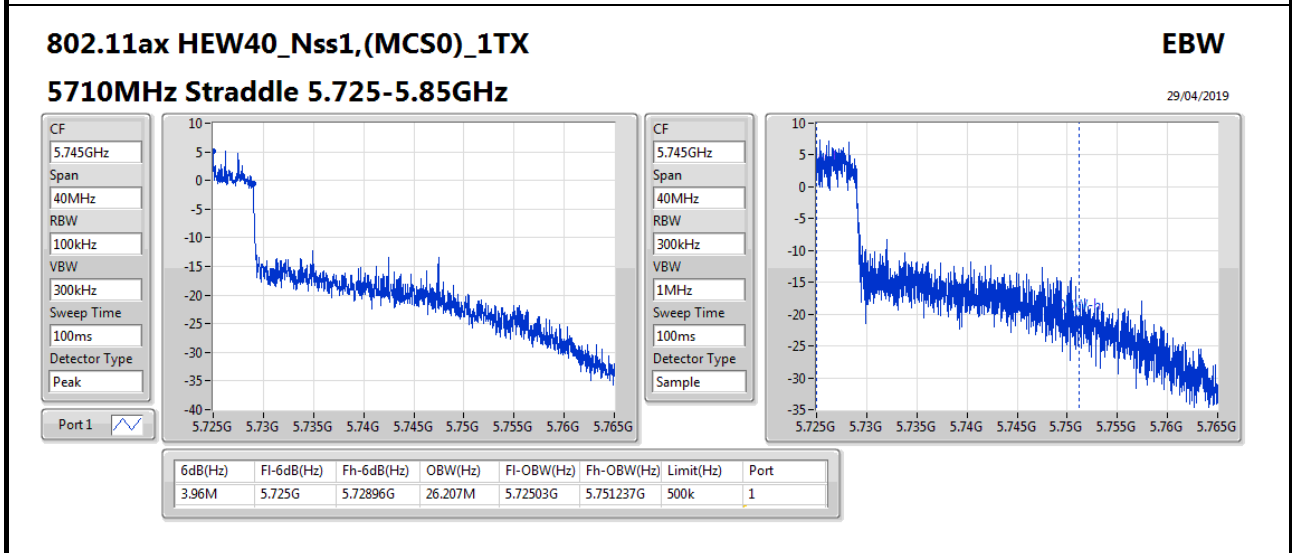
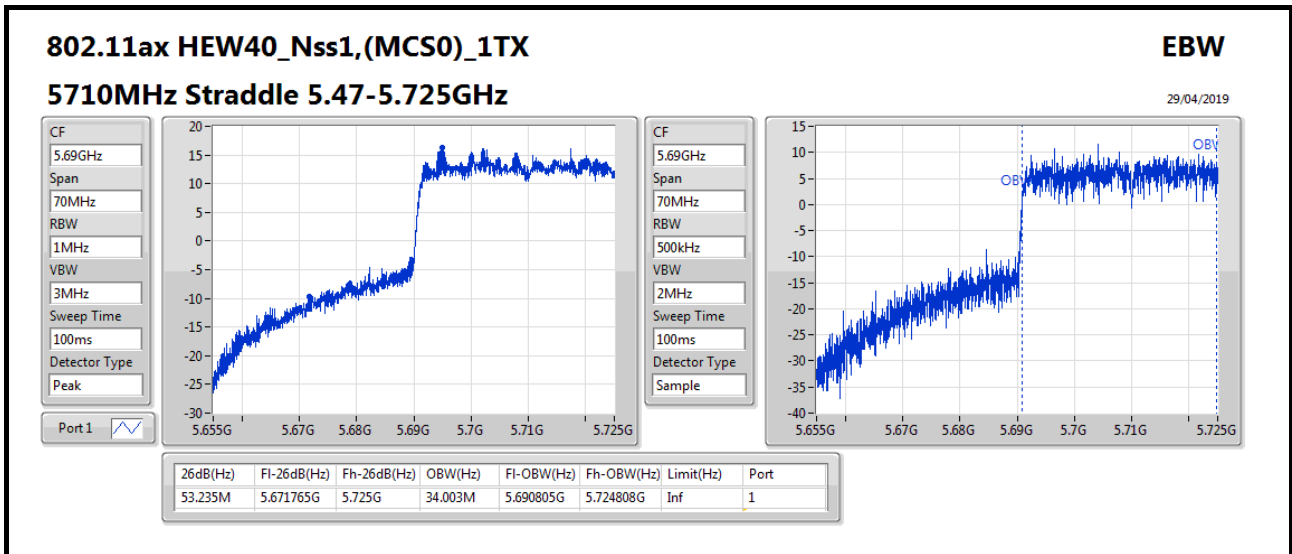
Span: 100MHz

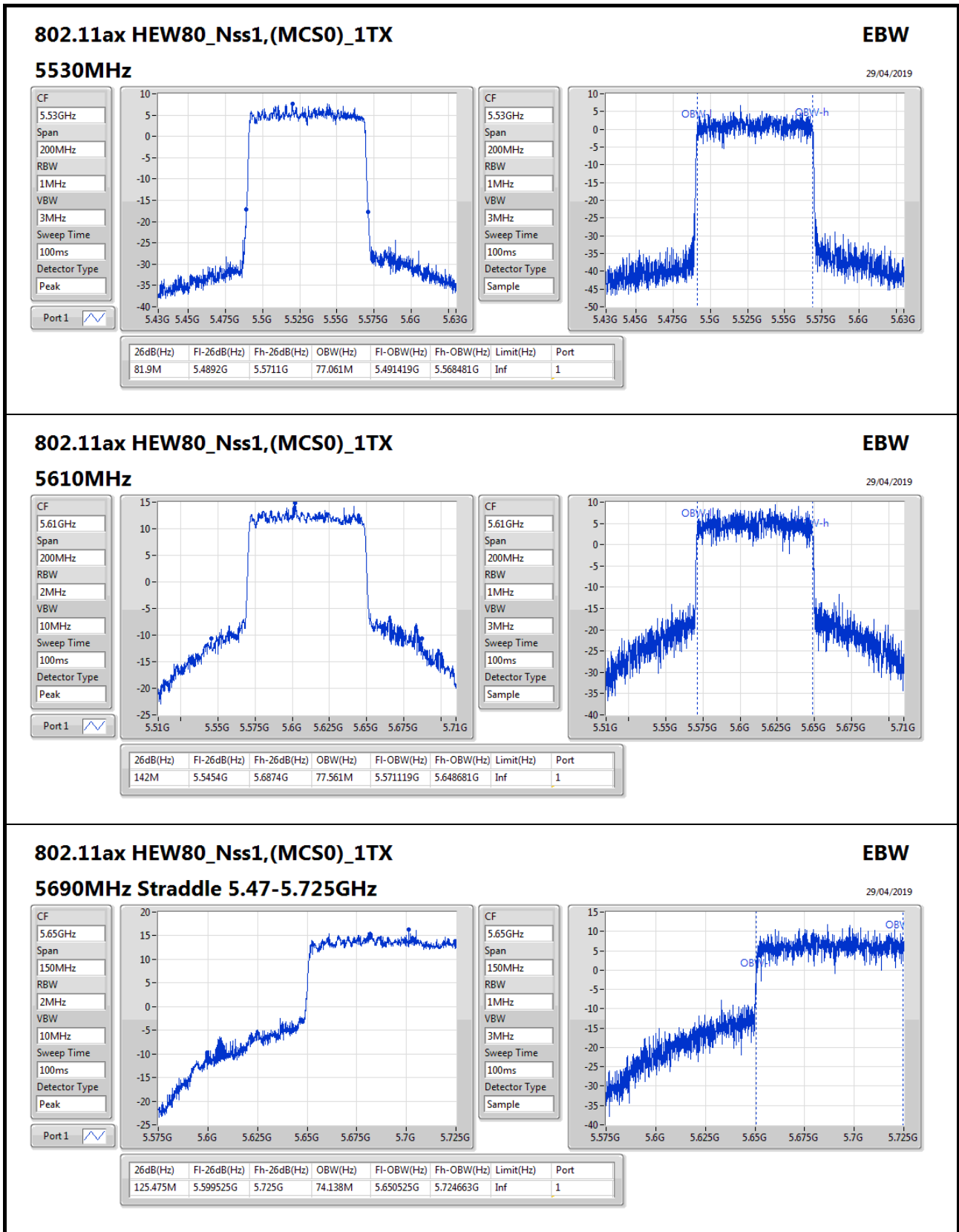
RBW: 500kHz

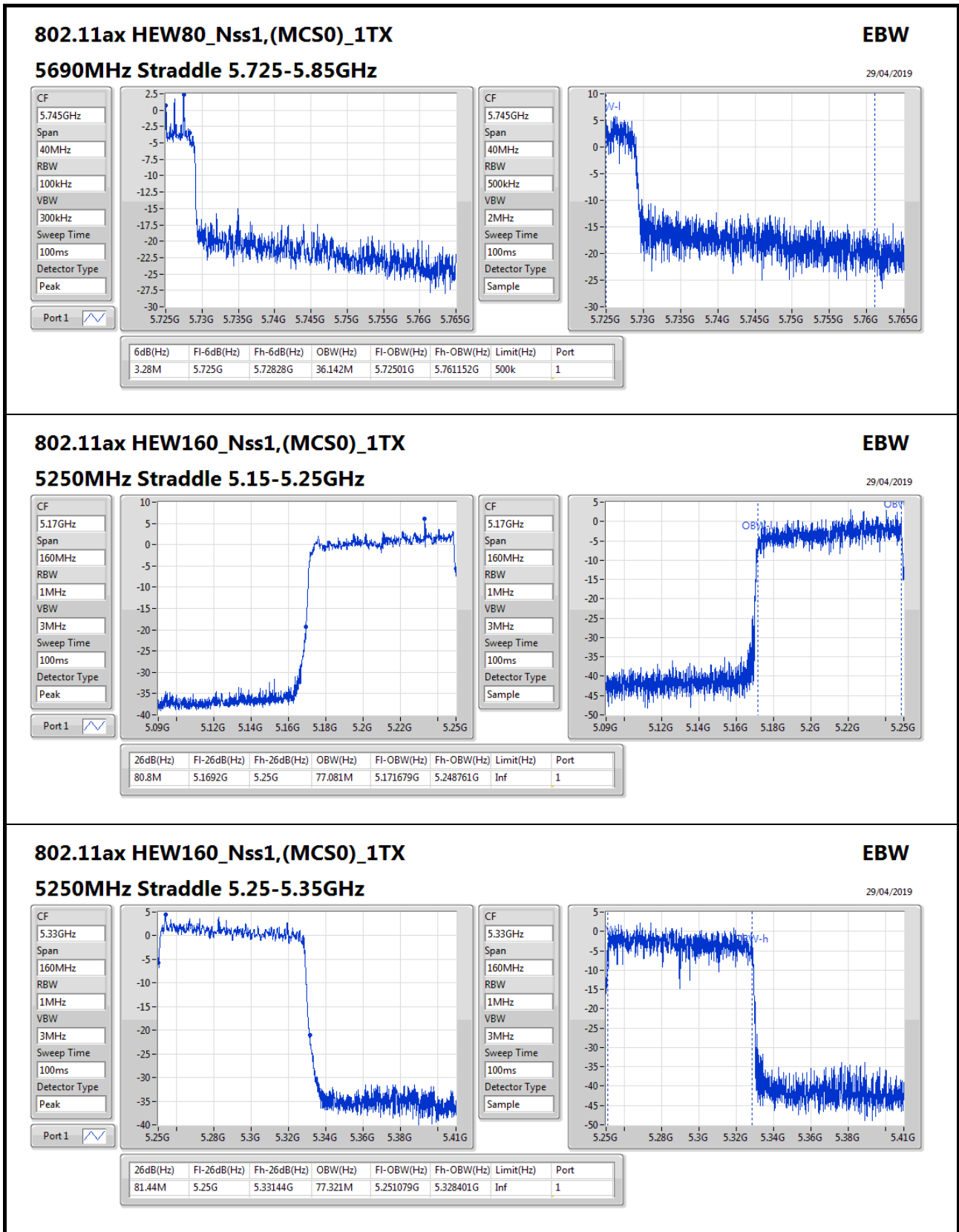
VBW: 2MHz

Sweep Time: 100ms

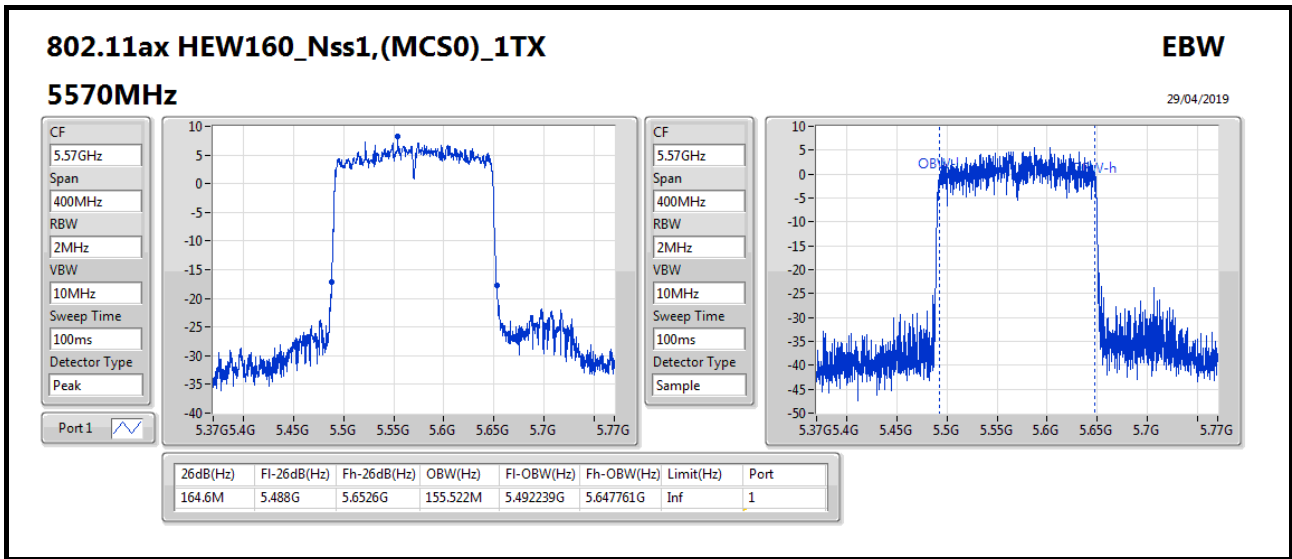
Detector Type: Sample













**For Indoor use for 5G Band 1 and Indoor/Outdoor use for 5G Band 2 ~ Band 4:  
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	77.241M	77M2D1D	81.44M	77.161M
5.25-5.35GHz	-	-	-	-	-
802.11ax HEW20_Nss2,(MCS0)_2TX	36.725M	19.09M	19M1D1D	22.05M	18.916M
802.11ax HEW40_Nss2,(MCS0)_2TX	77.2M	37.731M	37M7D1D	39.95M	37.481M
802.11ax HEW80_Nss2,(MCS0)_2TX	81.6M	77.061M	77M1D1D	81.5M	76.862M
802.11ax HEW160_Nss2,(MCS0)_2TX	81.28M	77.161M	77M2D1D	80.96M	77.081M
5.47-5.725GHz	-	-	-	-	-
802.11ax HEW20_Nss2,(MCS0)_2TX	39.575M	19.265M	19M3D1D	21.425M	18.786M
802.11ax HEW40_Nss2,(MCS0)_2TX	76.85M	39.285M	39M3D1D	39.95M	36.557M
802.11ax HEW80_Nss2,(MCS0)_2TX	118.05M	77.261M	77M3D1D	81M	73.463M
802.11ax HEW160_Nss2,(MCS0)_2TX	165.4M	155.322M	155MD1D	164.6M	154.923M
5.725-5.85GHz	-	-	-	-	-
802.11ax HEW20_Nss2,(MCS0)_2TX	4.46M	15.472M	15M5D1D	4.44M	14.713M
802.11ax HEW40_Nss2,(MCS0)_2TX	3.84M	28.226M	28M2D1D	3.82M	25.707M
802.11ax HEW80_Nss2,(MCS0)_2TX	3.7M	36.062M	36M1D1D	3.5M	34.103M

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

**Max-OBW** = Maximum 99% occupied bandwidth;

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

**Min-OBW** = Minimum 99% occupied bandwidth;



**Result**

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
802.11ax HEW20_Nss2,(MCS0)_2TX	-	-	-	-	-	-
5260MHz	Pass	Inf	32.475M	19.015M	36.725M	19.015M
5300MHz	Pass	Inf	28.65M	19.015M	36.125M	19.09M
5320MHz	Pass	Inf	22.05M	18.916M	29.125M	18.991M
5500MHz	Pass	Inf	21.925M	18.966M	21.425M	18.941M
5580MHz	Pass	Inf	39.575M	19.265M	37.775M	19.115M
5700MHz	Pass	Inf	22.025M	18.941M	21.525M	18.941M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	29.235M	19.205M	28.44M	18.786M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	4.46M	15.472M	4.44M	14.713M
802.11ax HEW40_Nss2,(MCS0)_2TX	-	-	-	-	-	-
5270MHz	Pass	Inf	75.45M	37.681M	77.2M	37.731M
5310MHz	Pass	Inf	39.95M	37.481M	40.1M	37.581M
5510MHz	Pass	Inf	39.95M	37.581M	40M	37.531M
5550MHz	Pass	Inf	76.85M	38.131M	73.85M	37.881M
5670MHz	Pass	Inf	40M	37.531M	40.05M	37.531M
5710MHz Straddle 5.47-5.725GHz	Pass	Inf	63.7M	39.285M	59.57M	36.557M
5710MHz Straddle 5.725-5.85GHz	Pass	500k	3.84M	28.226M	3.82M	25.707M
802.11ax HEW80_Nss2,(MCS0)_2TX	-	-	-	-	-	-
5290MHz	Pass	Inf	81.6M	76.862M	81.5M	77.061M
5530MHz	Pass	Inf	81.6M	76.962M	81M	76.962M
5610MHz	Pass	Inf	94.5M	77.261M	90.1M	77.061M
5690MHz Straddle 5.47-5.725GHz	Pass	Inf	118.05M	73.763M	111.225M	73.463M
5690MHz Straddle 5.725-5.85GHz	Pass	500k	3.7M	36.062M	3.5M	34.103M
802.11ax HEW160_Nss2,(MCS0)_2TX	-	-	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	Inf	81.44M	77.241M	81.92M	77.161M
5250MHz Straddle 5.25-5.35GHz	Pass	Inf	81.28M	77.081M	80.96M	77.161M
5570MHz	Pass	Inf	165.4M	154.923M	164.6M	155.322M

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

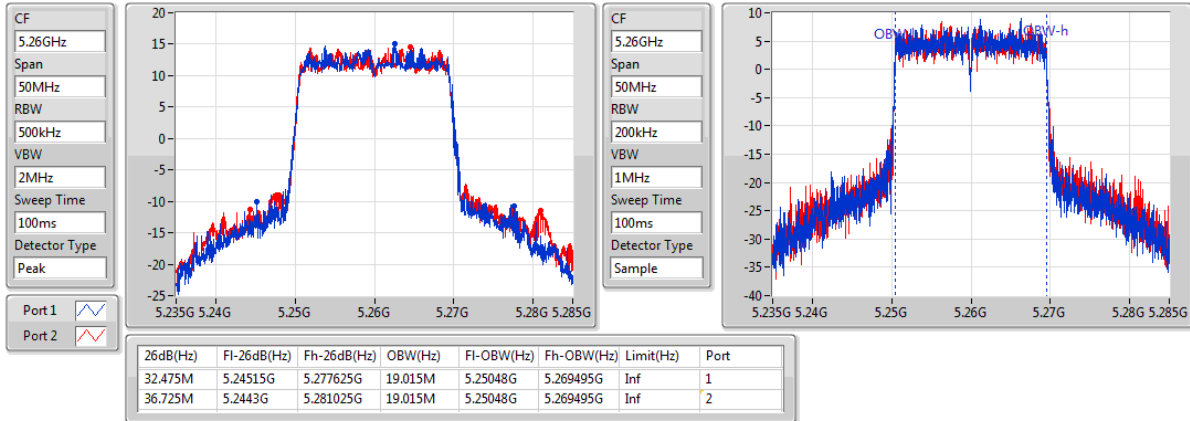
**Port X-OBW** = Port X 99% occupied bandwidth;

802.11ax HEW20\_Nss2,(MCS0)\_2TX

EBW

5260MHz

27/04/2019

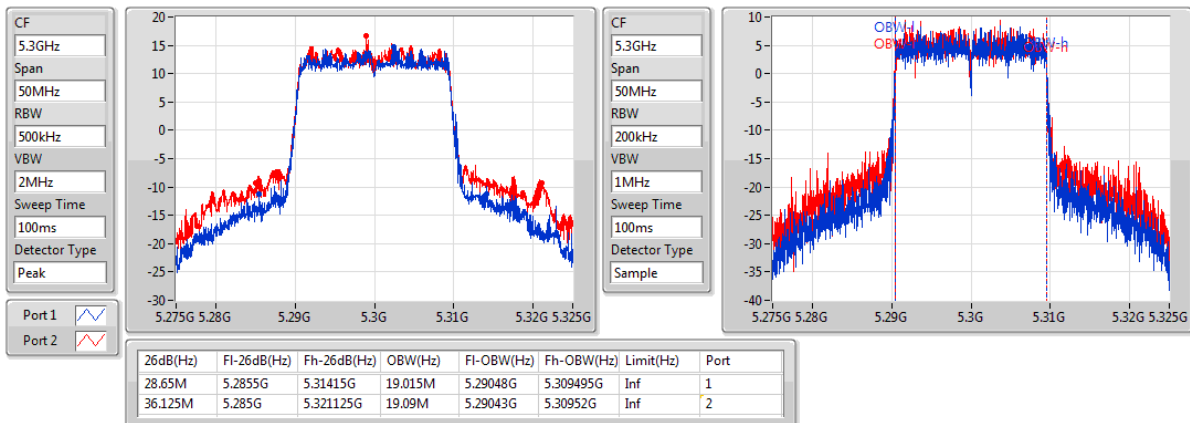


802.11ax HEW20\_Nss2,(MCS0)\_2TX

EBW

5300MHz

27/04/2019

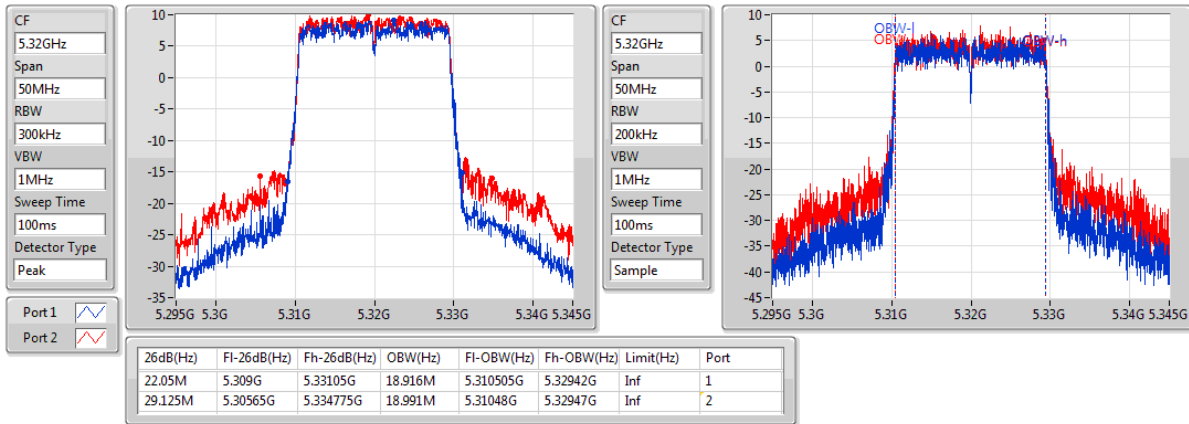


802.11ax HEW20\_Nss2,(MCS0)\_2TX

EBW

5320MHz

27/04/2019

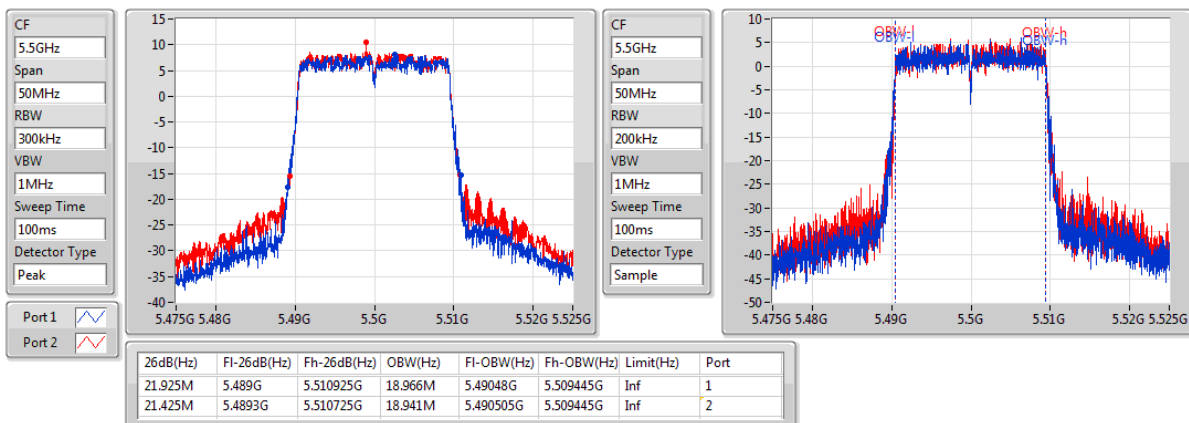


802.11ax HEW20\_Nss2,(MCS0)\_2TX

EBW

5500MHz

27/04/2019

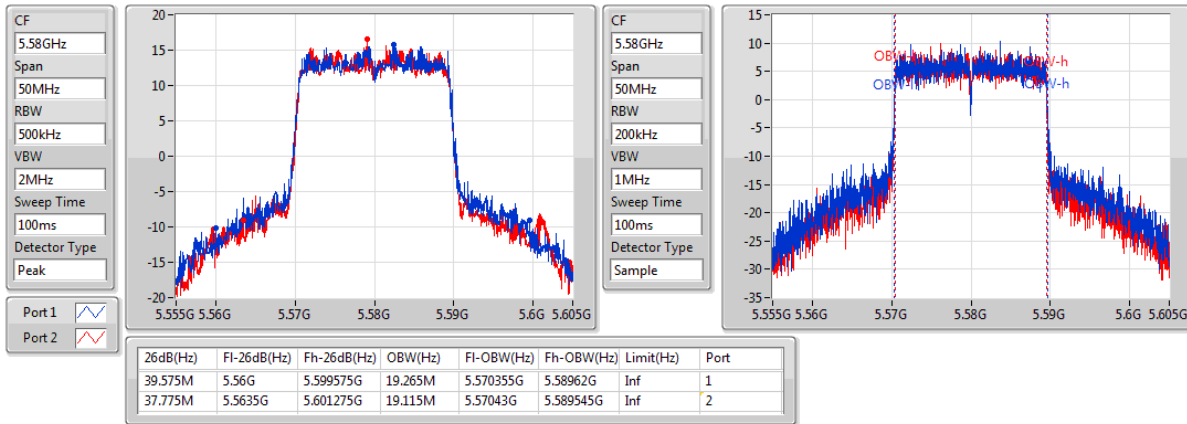


802.11ax HEW20\_Nss2,(MCS0)\_2TX

EBW

5580MHz

27/04/2019

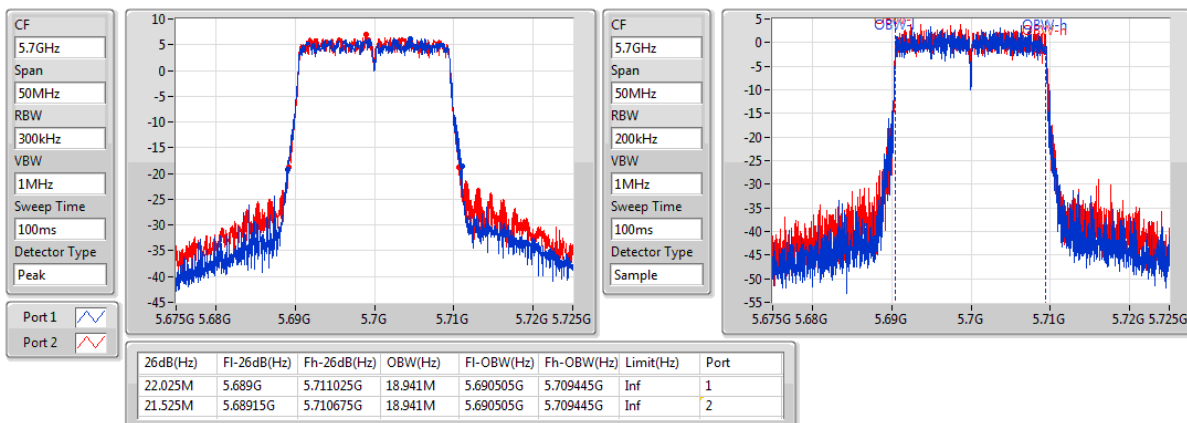


802.11ax HEW20\_Nss2,(MCS0)\_2TX

EBW

5700MHz

27/04/2019

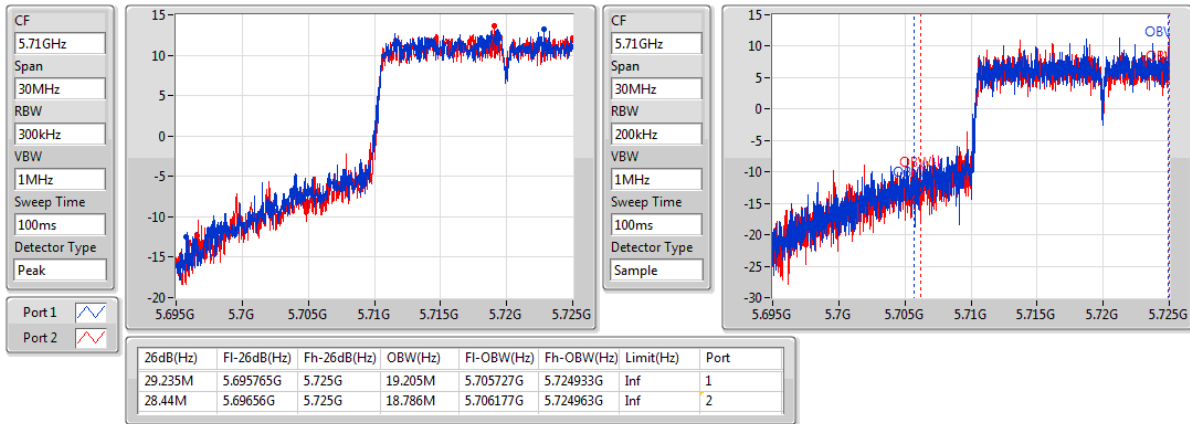


802.11ax HEW20\_Nss2,(MCS0)\_2TX

EBW

5720MHz Straddle 5.47-5.725GHz

27/04/2019

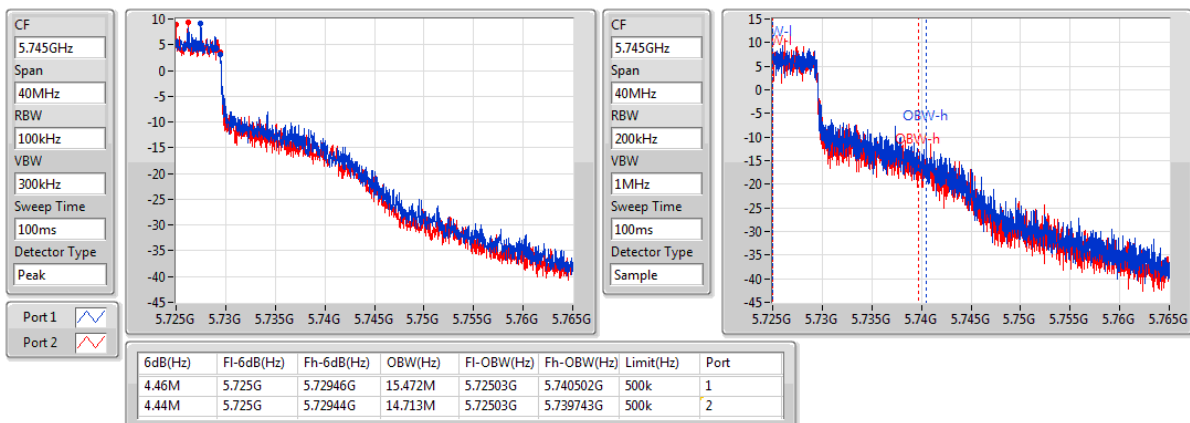


802.11ax HEW20\_Nss2,(MCS0)\_2TX

EBW

5720MHz Straddle 5.725-5.85GHz

27/04/2019

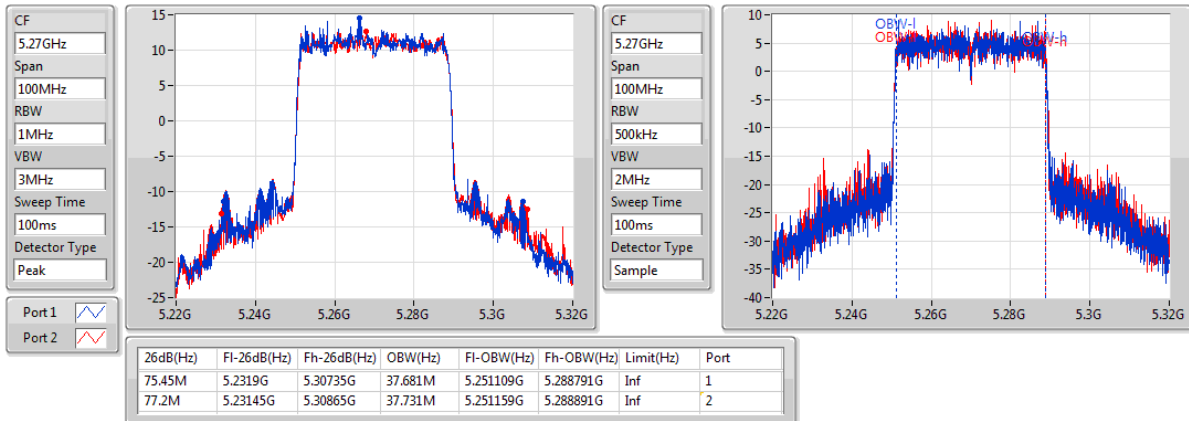


802.11ax HEW40\_Nss2,(MCS0)\_2TX

EBW

5270MHz

09/05/2019

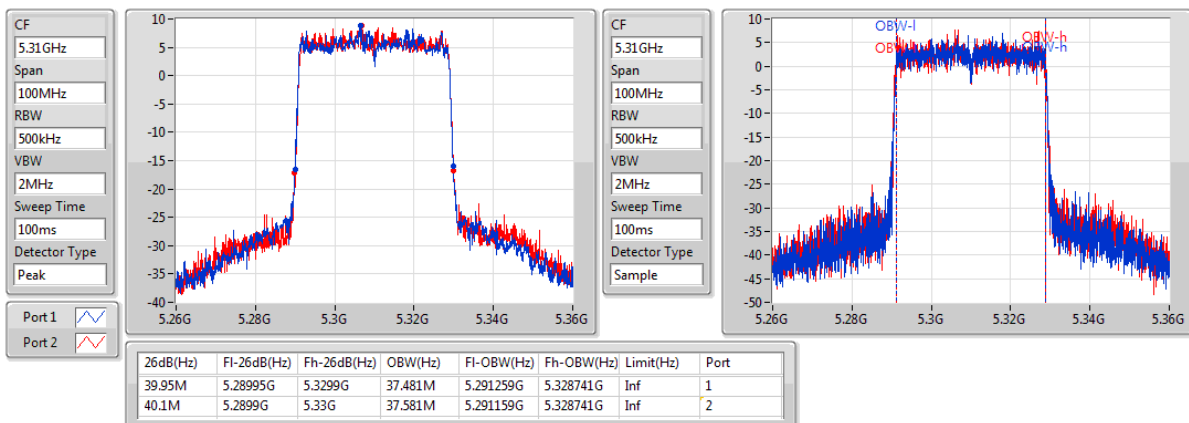


802.11ax HEW40\_Nss2,(MCS0)\_2TX

EBW

5310MHz

27/04/2019



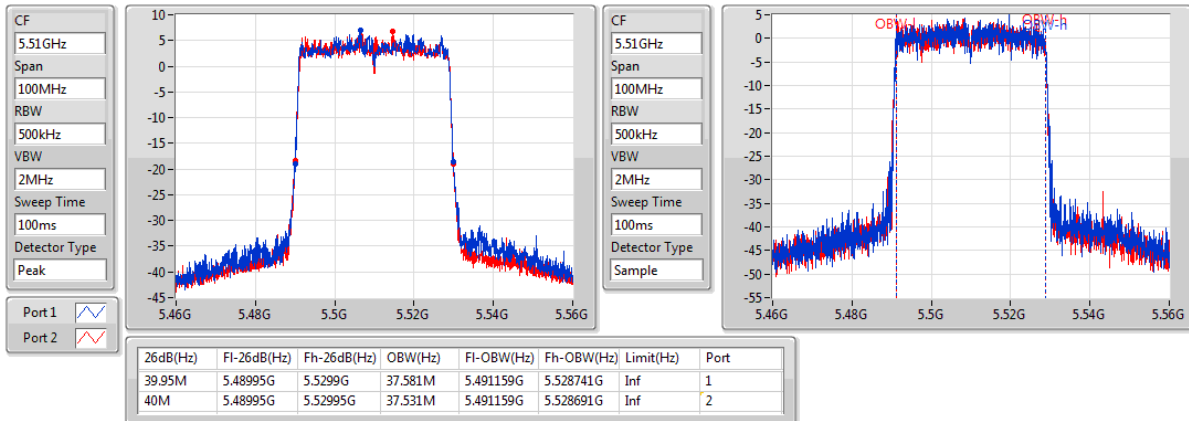


802.11ax HEW40\_Nss2,(MCS0)\_2TX

EBW

5510MHz

27/04/2019

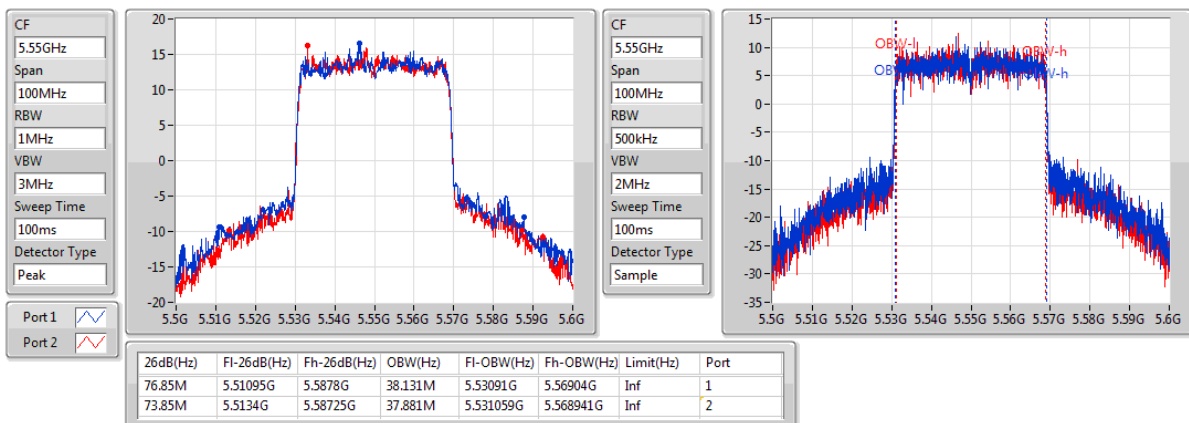


802.11ax HEW40\_Nss2,(MCS0)\_2TX

EBW

5550MHz

27/04/2019

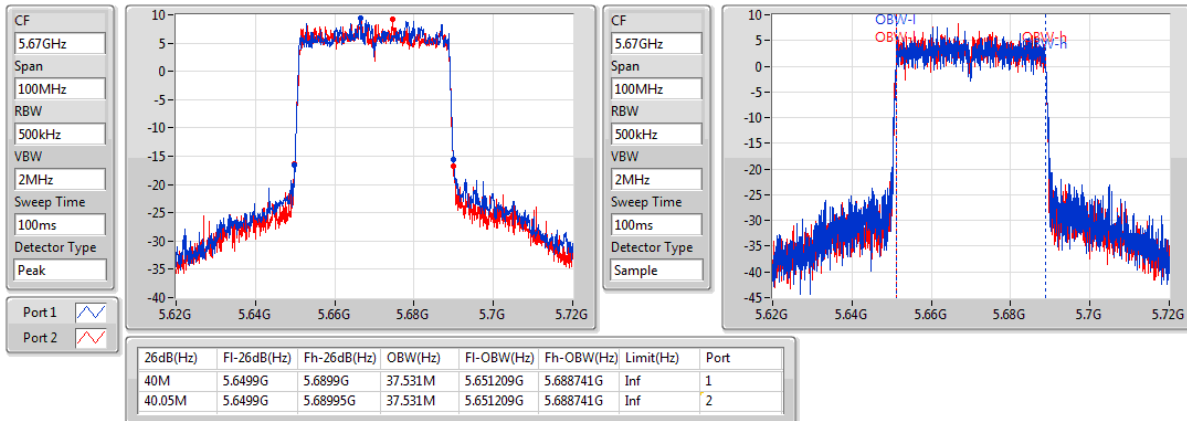


802.11ax HEW40\_Nss2,(MCS0)\_2TX

EBW

5670MHz

27/04/2019



802.11ax HEW40\_Nss2,(MCS0)\_2TX

EBW

5710MHz Straddle 5.47-5.725GHz

27/04/2019

