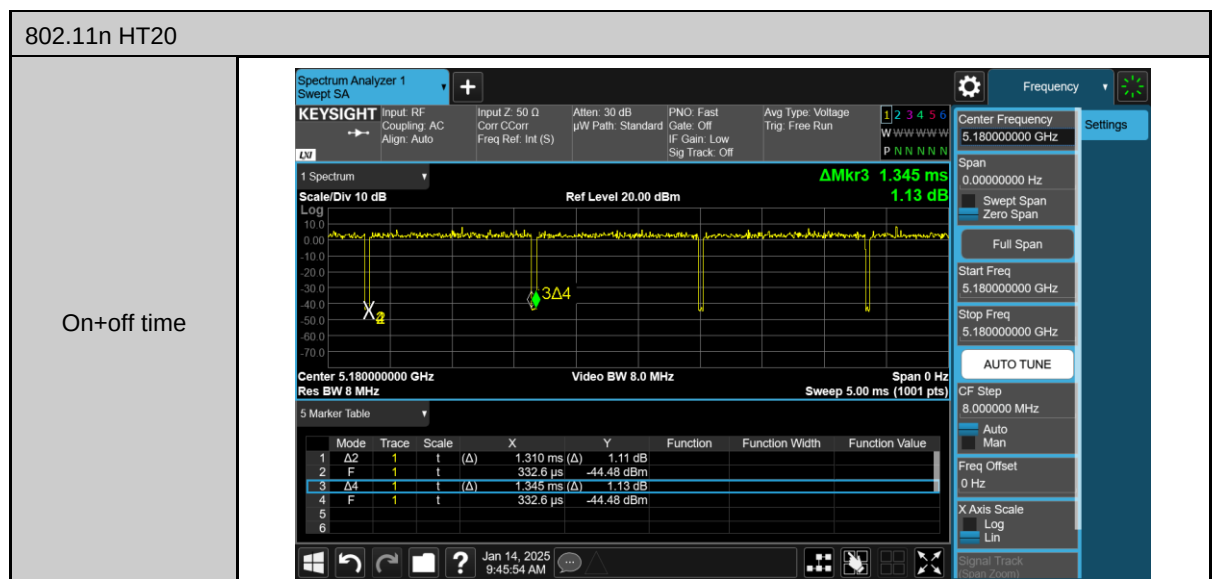
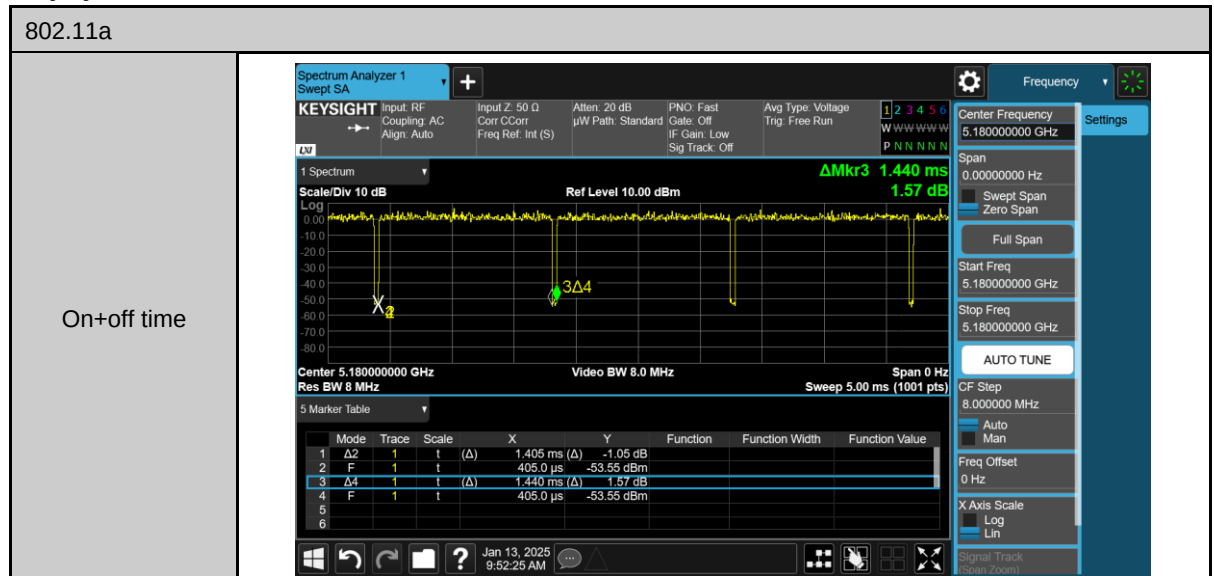


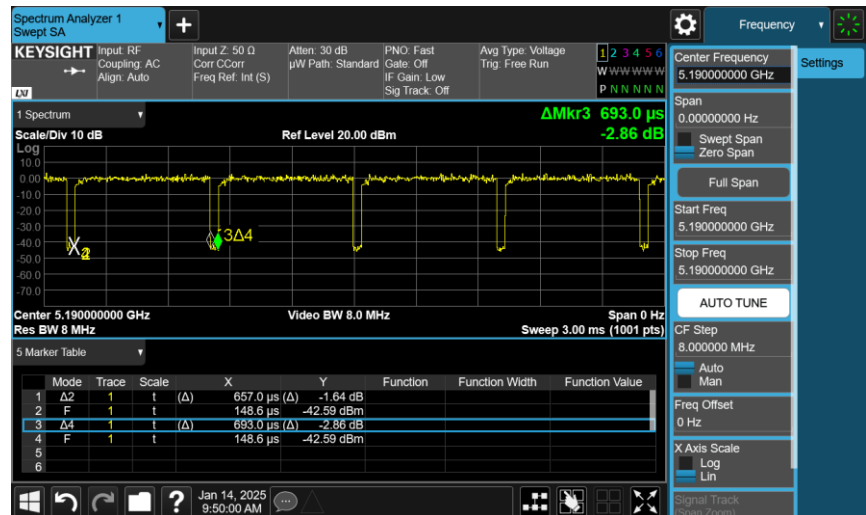
Appendix B. Test Plots

Duty cycle



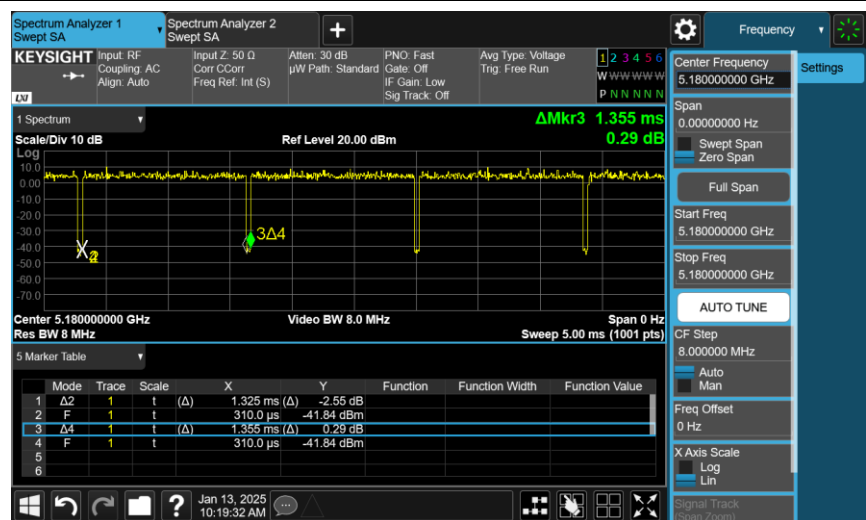
802.11n HT40

On+off time



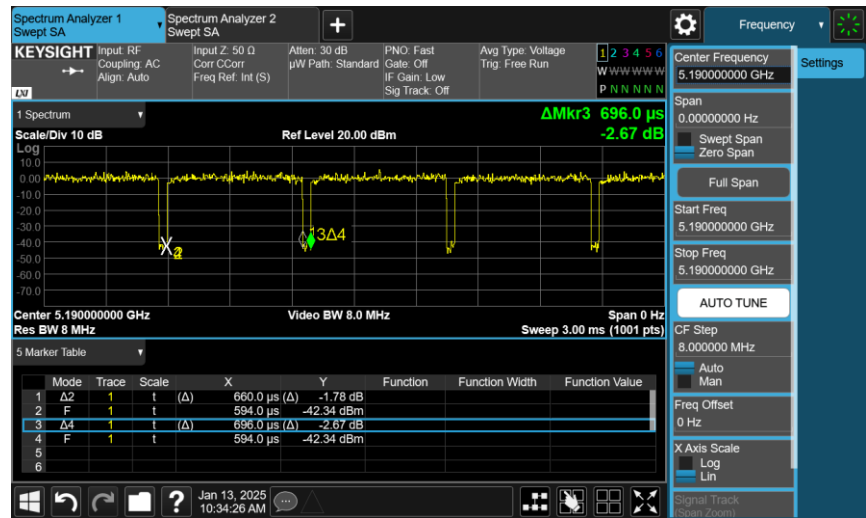
802.11ac VHT20

On+off time



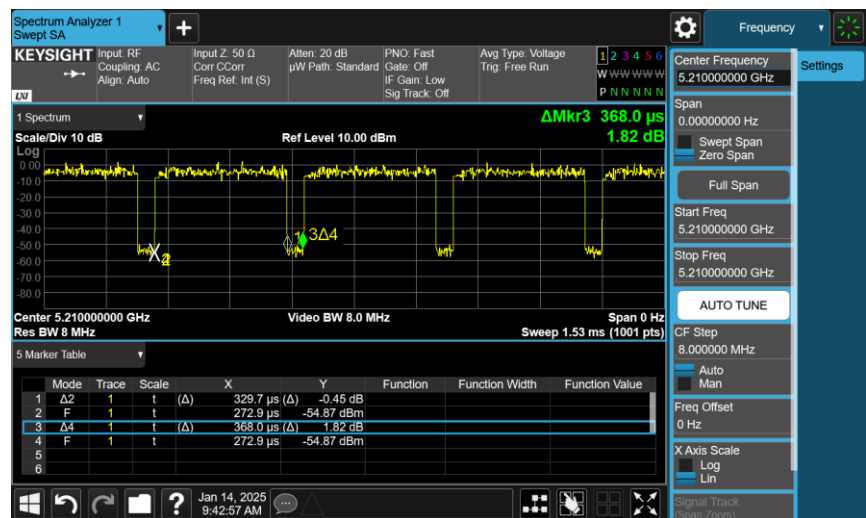
802.11ac VHT40

On+off time



802.11ac VHT80

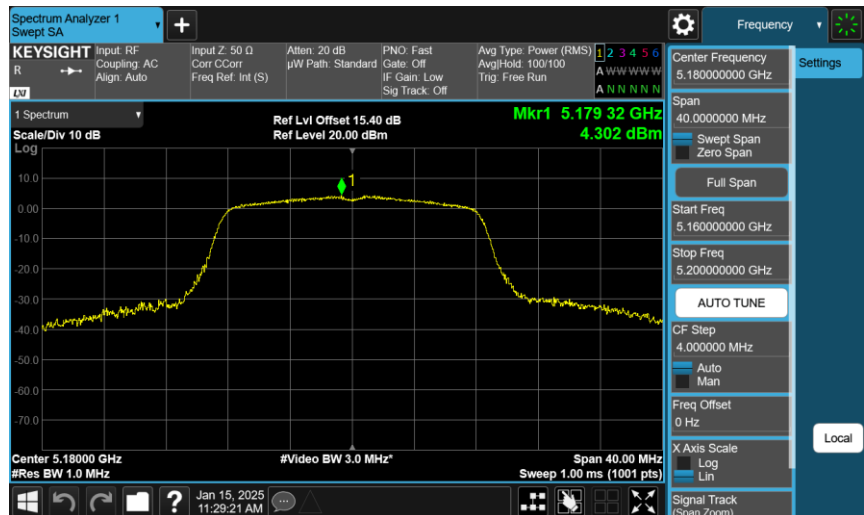
On+off time



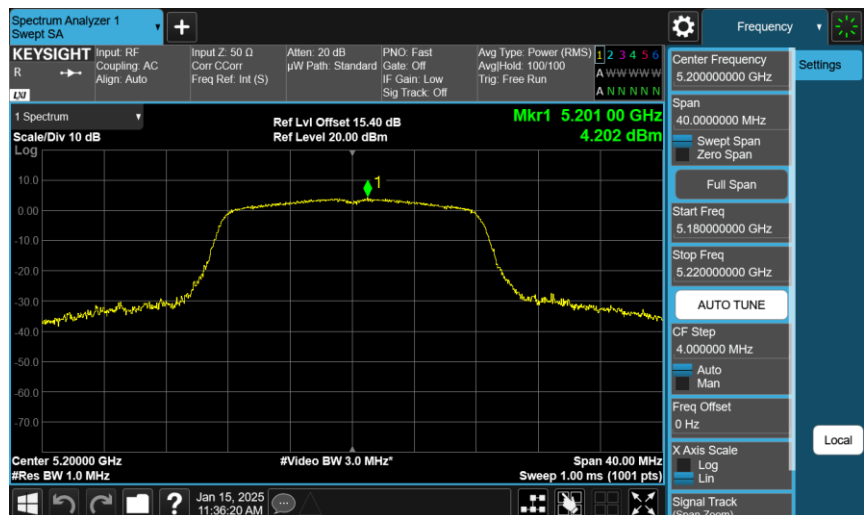
Maximum Power Spectral Density

802.11a

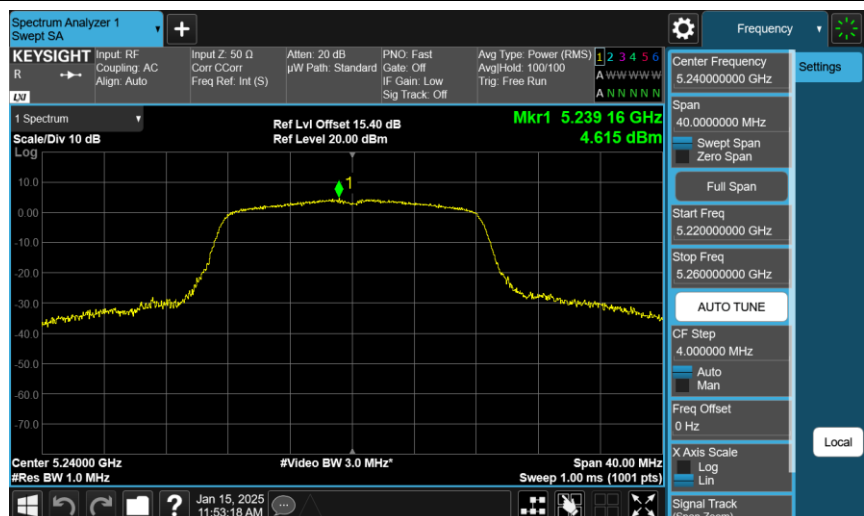
5180 MHz



5200 MHz

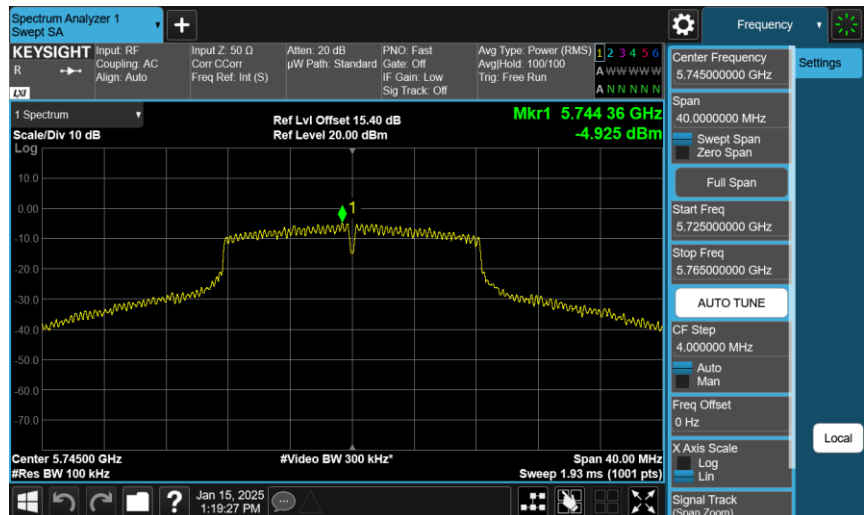


5240 MHz

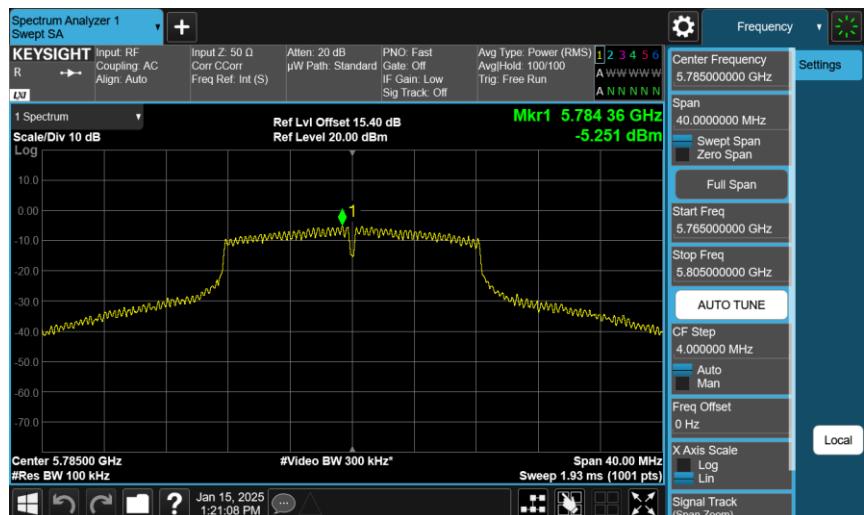


802.11a

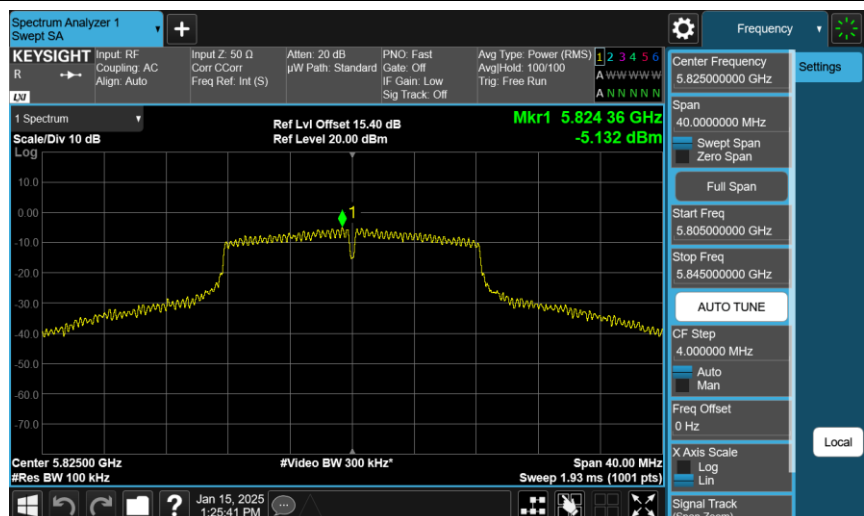
5745 MHz



5785 MHz

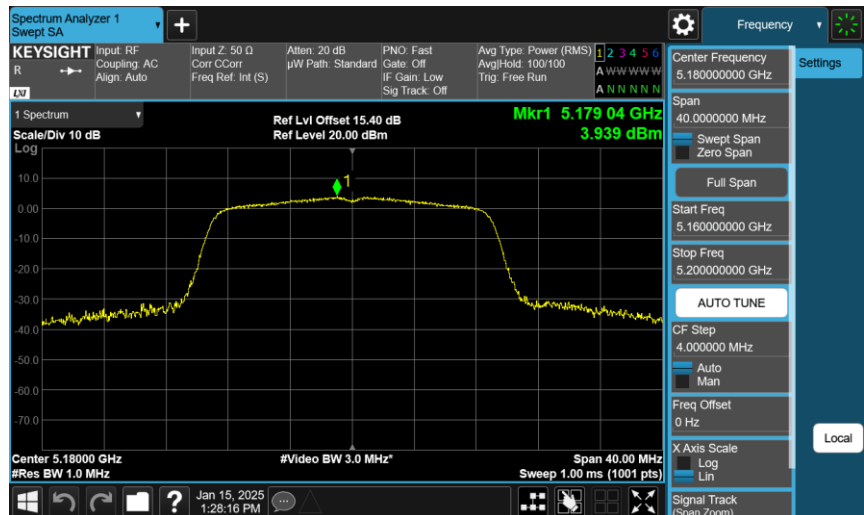


5825 MHz

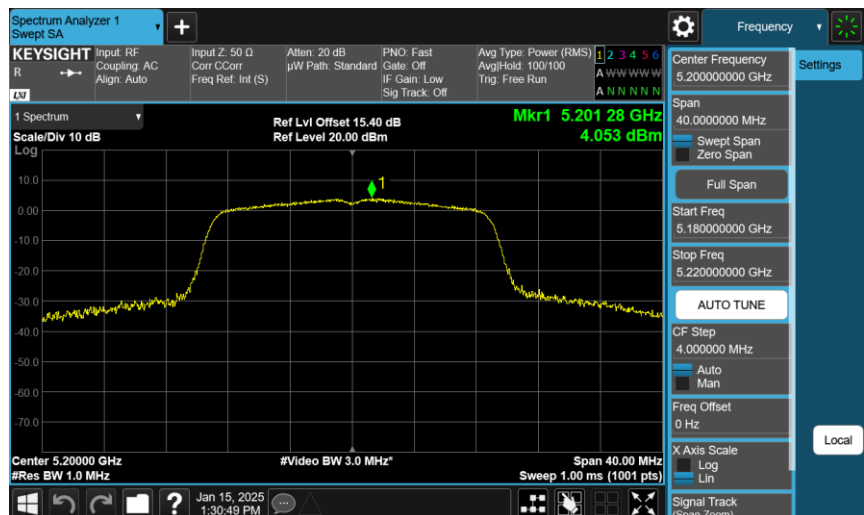


802.11ac VHT20_ANT-0

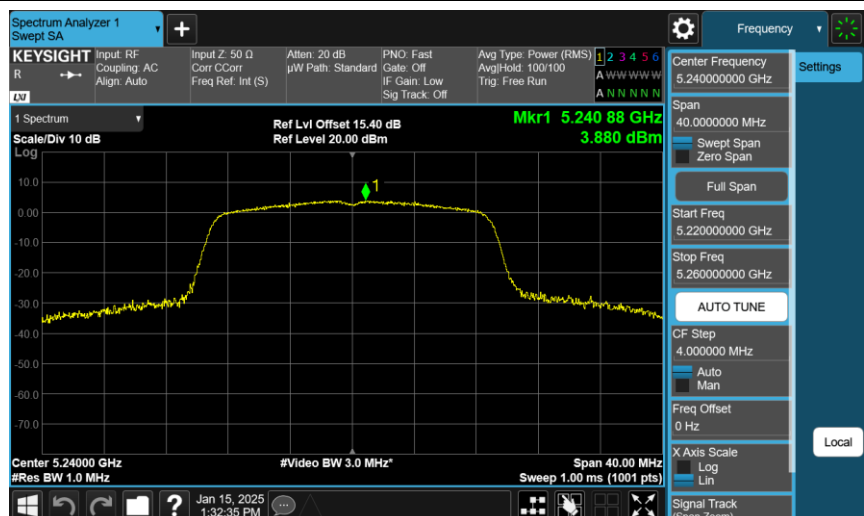
5180 MHz



5200 MHz

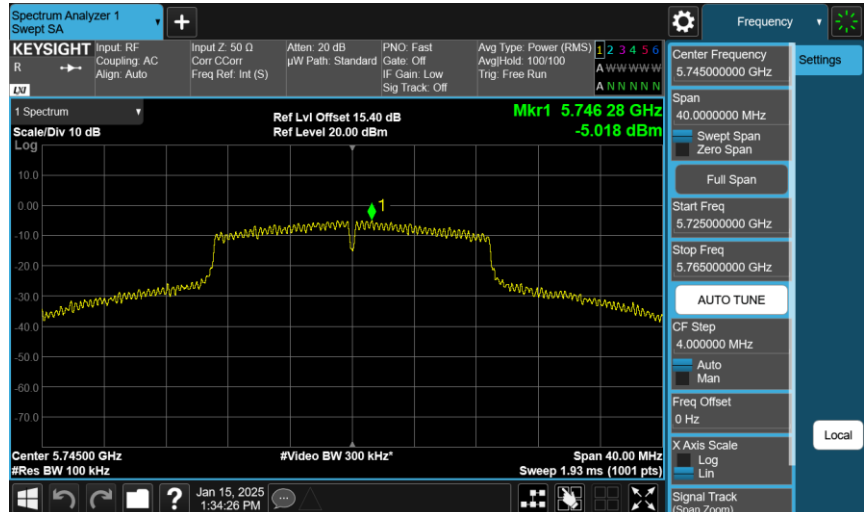


5240 MHz

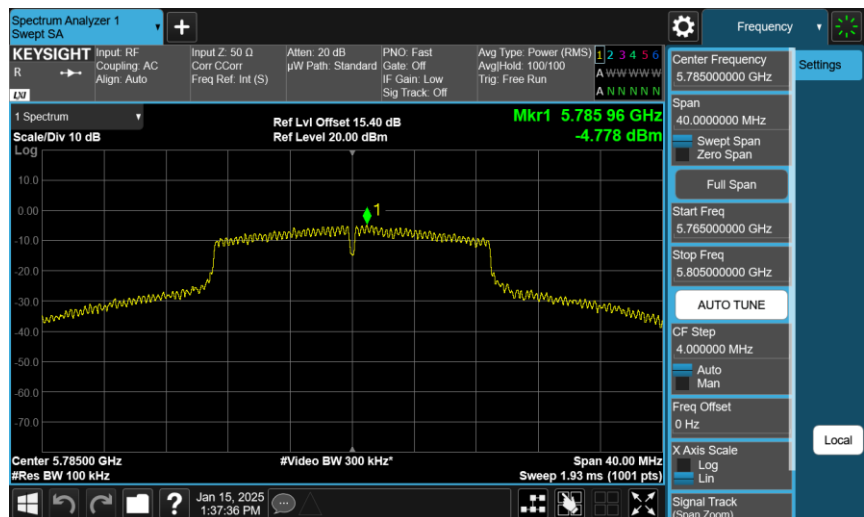


802.11ac VHT20_ANT-0

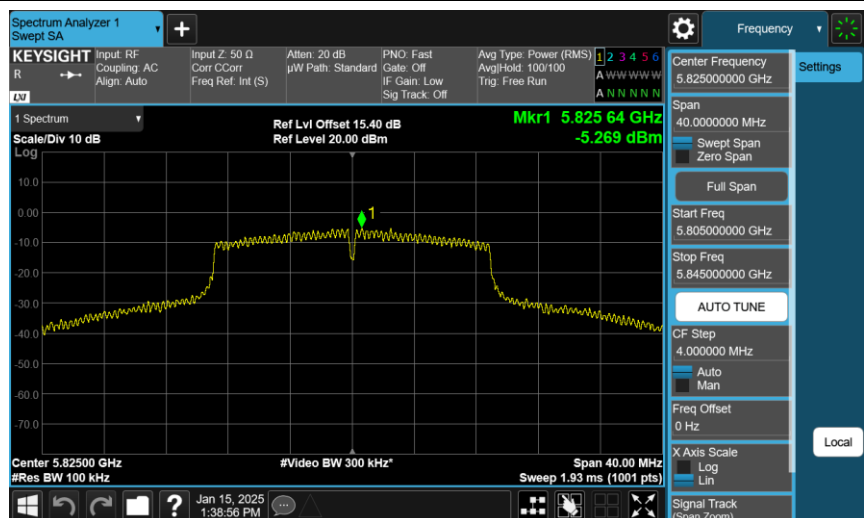
5745 MHz



5785 MHz

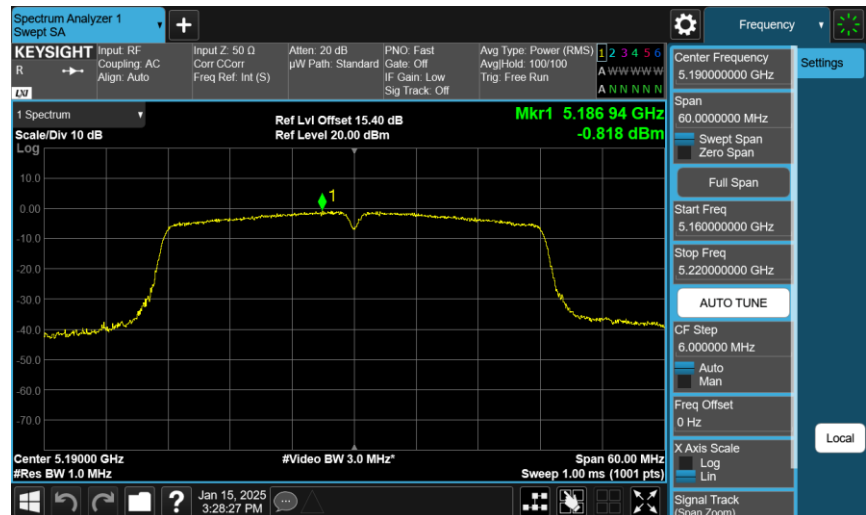


5825 MHz



802.11ac VHT40_ANT-0

5190 MHz

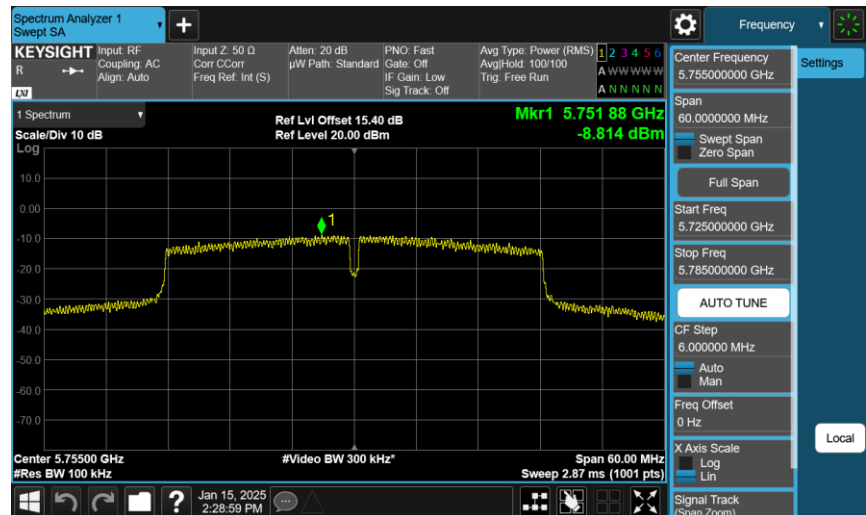


5230 MHz

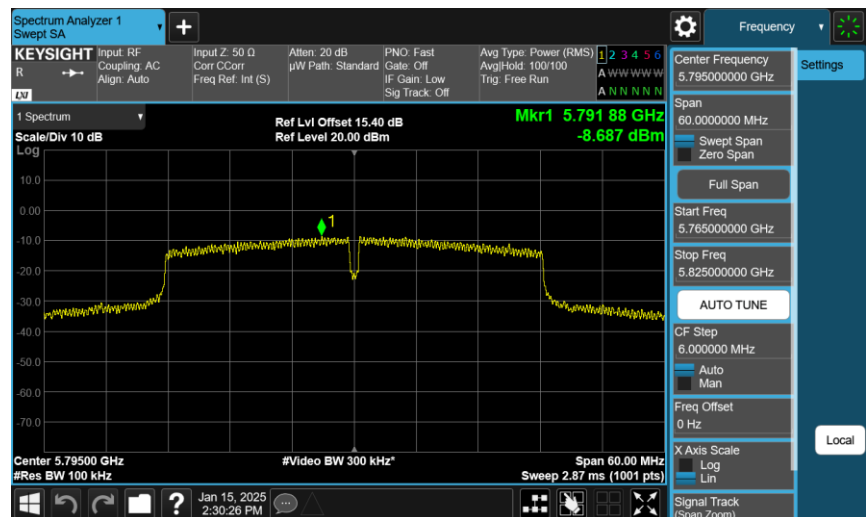


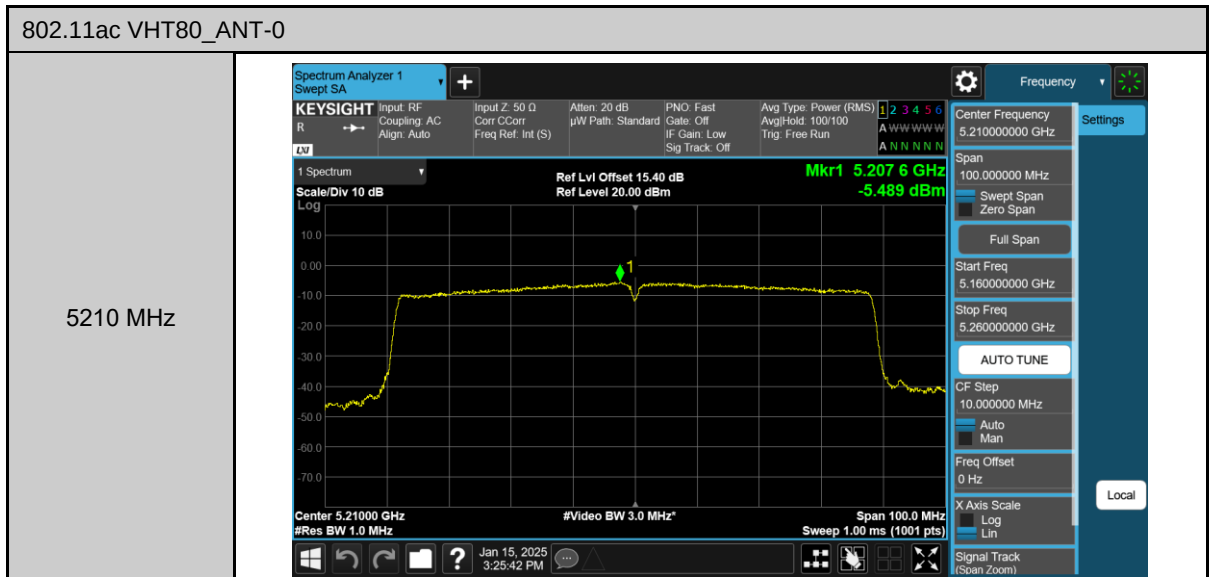
802.11ac VHT40_ANT-0

5755 MHz



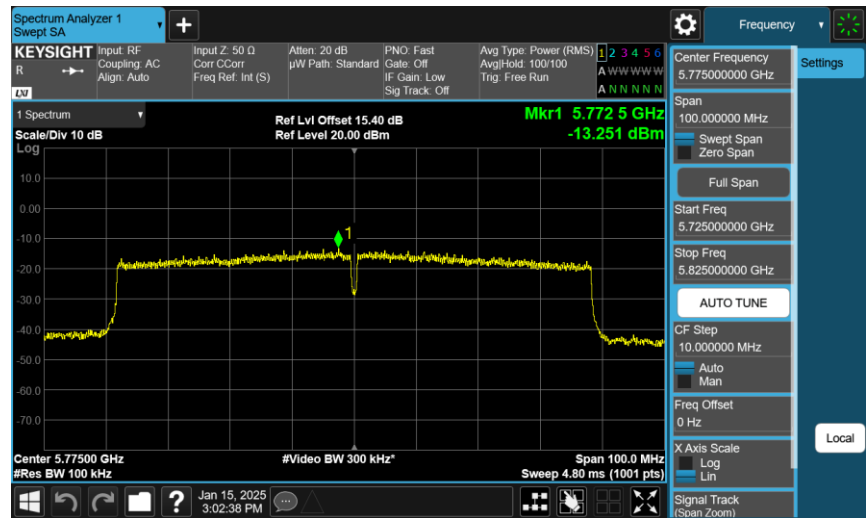
5795 MHz





802.11ac VHT80_ANT-0

5775 MHz



26 dB Bandwidth & 99% Occupied Bandwidth

802.11a

5180 MHz

Spectrum Analyzer 1

Occupied BW

KEYSIGHT

Input: RF

Input Z: 50 Ω

Atten: 30 dB

Trig: Free Run

Center Freq: 5.18000000 GHz

Coupling: AC

Corr: CCorr

μ W Path: Standard

Gate: Off

Avg/Hold: 1/1

Align: Auto

Freq Ref: Int (S)

#IF Gain: Low

Radio Std: None

1 Graph

Scale/Div 10.0 dB

Ref Lvl Offset 15.40 dB

Ref Value 20.00 dBm

Center 5.18000 GHz

#Res BW 390.00 kHz

#Video BW 1.2000 MHz

Span 80 MHz

Sweep 1.07 ms (4001 pts)

2 Metrics

Occupied Bandwidth

16.956 MHz

Transmit Freq Error

-4.879 kHz

x dB Bandwidth

21.69 MHz

Measure Trace

Trace 1

Total Power

21.1 dBm

% of OBW Power

99.00 %

x dB

-26.00 dB

Jan 15, 2025

11:29:12 AM

Frequency

Center Frequency

5.18000000 GHz

Span

80.000 MHz

CF Step

8.000000 MHz

Auto

Man

Freq Offset

0 Hz

Settings

Local

5200 MHz

Spectrum Analyzer 1

Occupied BW

KEYSIGHT

Input: RF

Input Z: 50 Ω

Atten: 30 dB

Trig: Free Run

Center Freq: 5.20000000 GHz

Coupling: AC

Corr: CCorr

μ W Path: Standard

Gate: Off

Avg/Hold: 1/1

Align: Auto

Freq Ref: Int (S)

#IF Gain: Low

Radio Std: None

1 Graph

Scale/Div 10.0 dB

Ref Lvl Offset 15.40 dB

Ref Value 20.00 dBm

Center 5.20000 GHz

#Res BW 390.00 kHz

#Video BW 1.2000 MHz

Span 80 MHz

Sweep 1.07 ms (4001 pts)

2 Metrics

Occupied Bandwidth

17.063 MHz

Transmit Freq Error

-988 Hz

x dB Bandwidth

25.15 MHz

Measure Trace

Trace 1

Total Power

21.1 dBm

% of OBW Power

99.00 %

x dB

-26.00 dB

Jan 15, 2025

11:36:11 AM

Frequency

Center Frequency

5.20000000 GHz

Span

80.000 MHz

CF Step

8.000000 MHz

Auto

Man

Freq Offset

0 Hz

Settings

Local

5240 MHz

Spectrum Analyzer 1

Occupied BW

KEYSIGHT

Input: RF

Input Z: 50 Ω

Atten: 30 dB

Trig: Free Run

Center Freq: 5.24000000 GHz

Coupling: AC

Corr: CCorr

μ W Path: Standard

Gate: Off

Avg/Hold: 1/1

Align: Auto

Freq Ref: Int (S)

#IF Gain: Low

Radio Std: None

1 Graph

Scale/Div 10.0 dB

Ref Lvl Offset 15.40 dB

Ref Value 20.00 dBm

Center 5.24000 GHz

#Res BW 390.00 kHz

#Video BW 1.2000 MHz

Span 80 MHz

Sweep 1.07 ms (4001 pts)

2 Metrics

Occupied Bandwidth

17.093 MHz

Transmit Freq Error

42.336 kHz

x dB Bandwidth

27.92 MHz

Measure Trace

Trace 1

Total Power

21.5 dBm

% of OBW Power

99.00 %

x dB

-26.00 dB

Jan 15, 2025

11:53:09 AM

Frequency

Center Frequency

5.24000000 GHz

Span

80.000 MHz

CF Step

8.000000 MHz

Auto

Man

Freq Offset

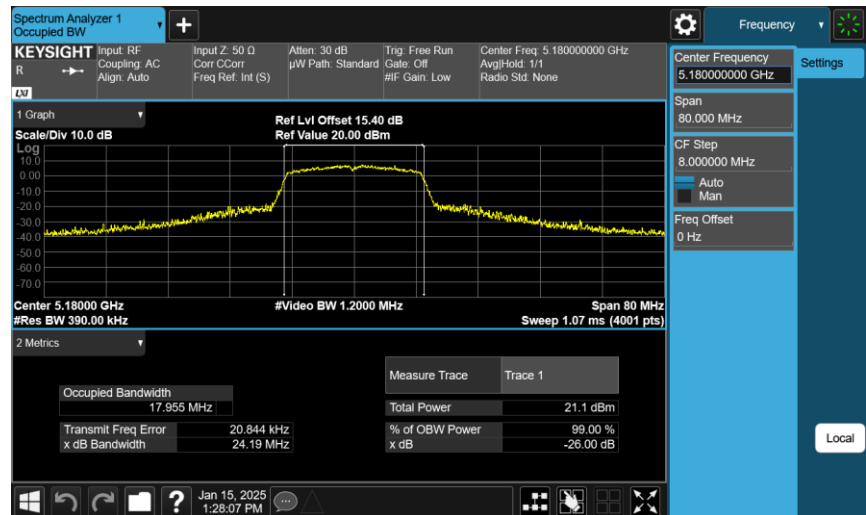
0 Hz

Settings

Local

802.11ac VHT20_ANT-0

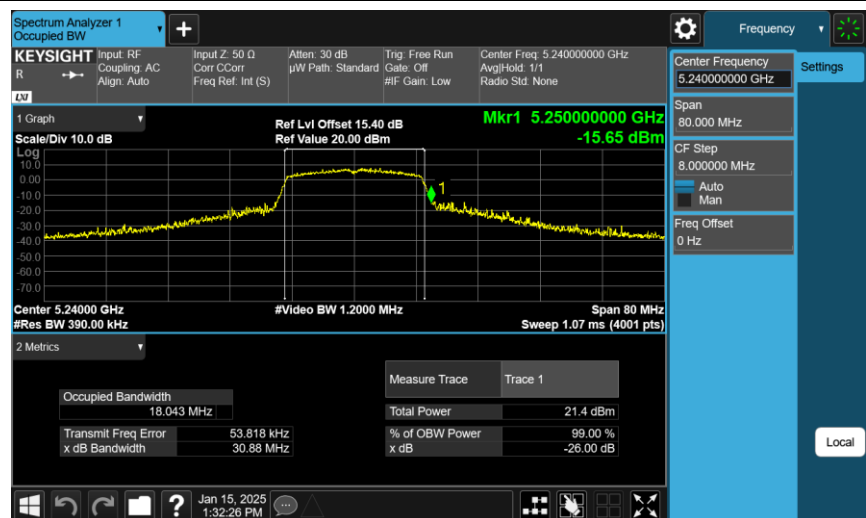
5180 MHz



5200 MHz

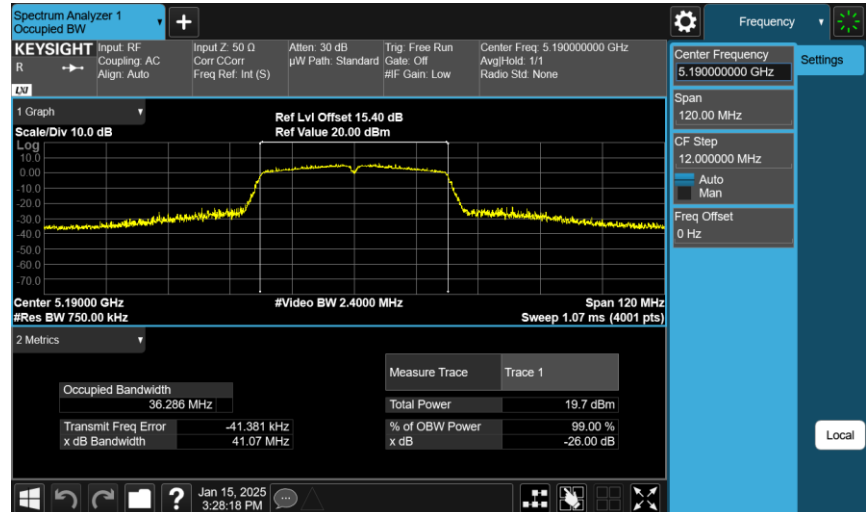


5240 MHz

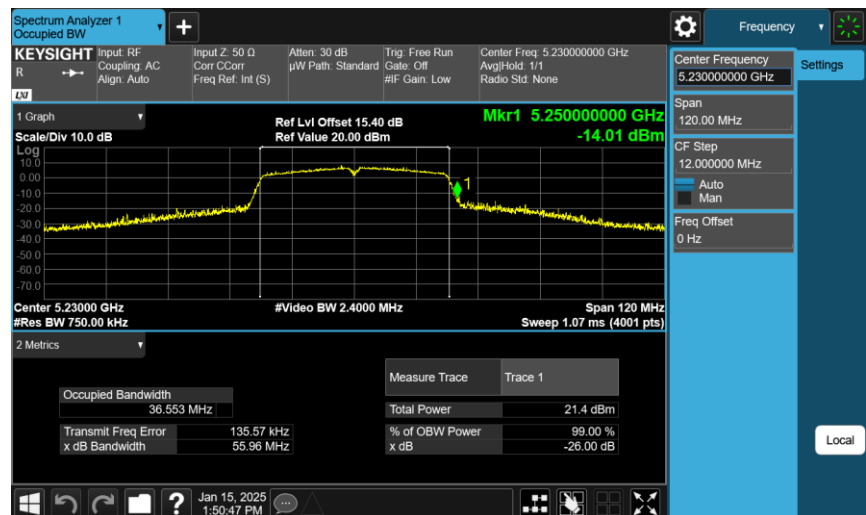


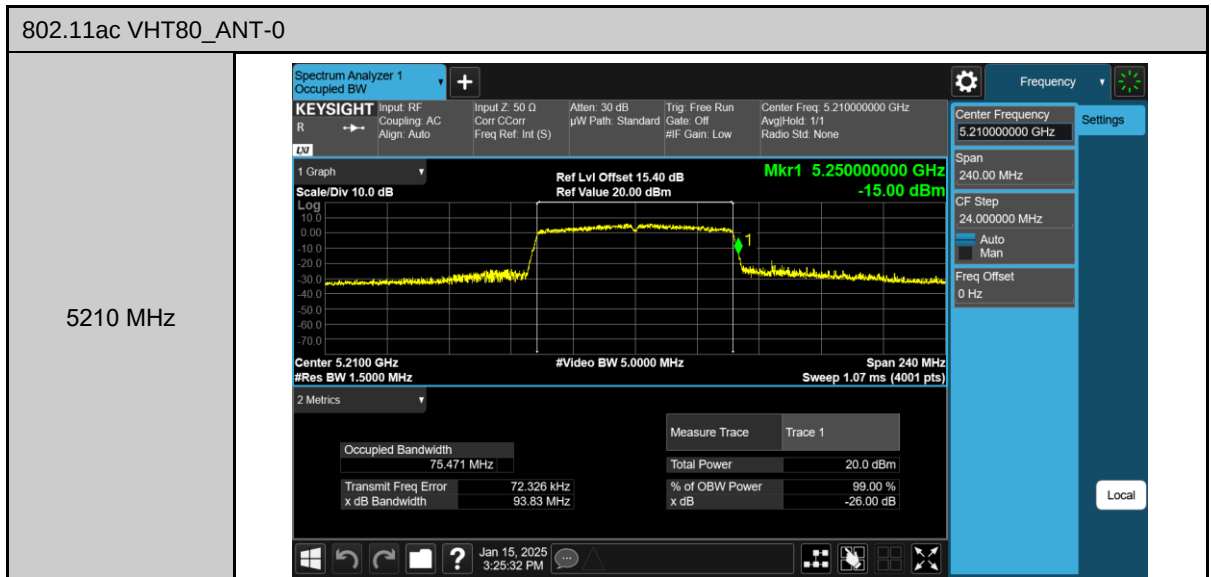
802.11ac VHT40_ANT-0

5190 MHz



5230 MHz

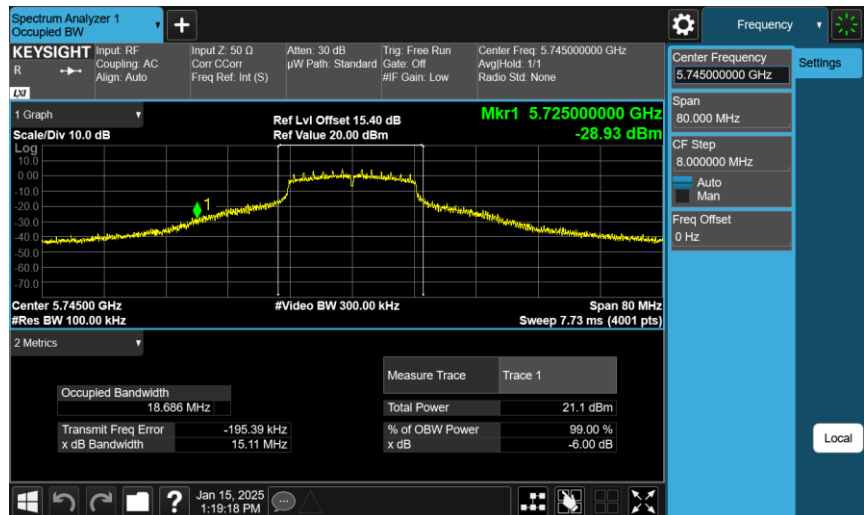




6 dB Bandwidth

802.11a

5745 MHz



5785 MHz

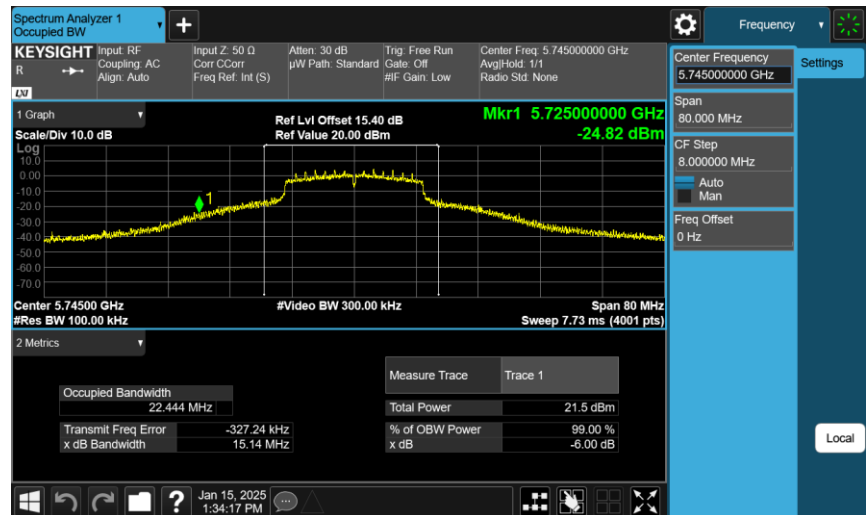


5825 MHz

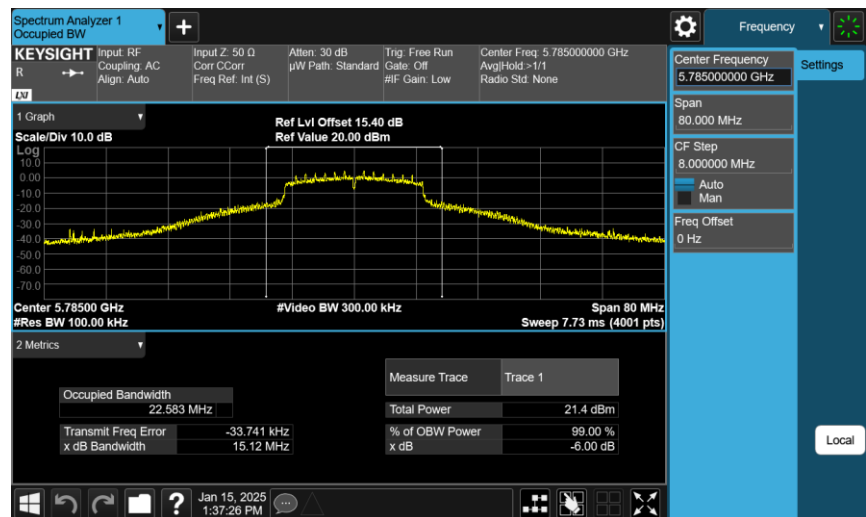


802.11ac VHT20_ANT-0

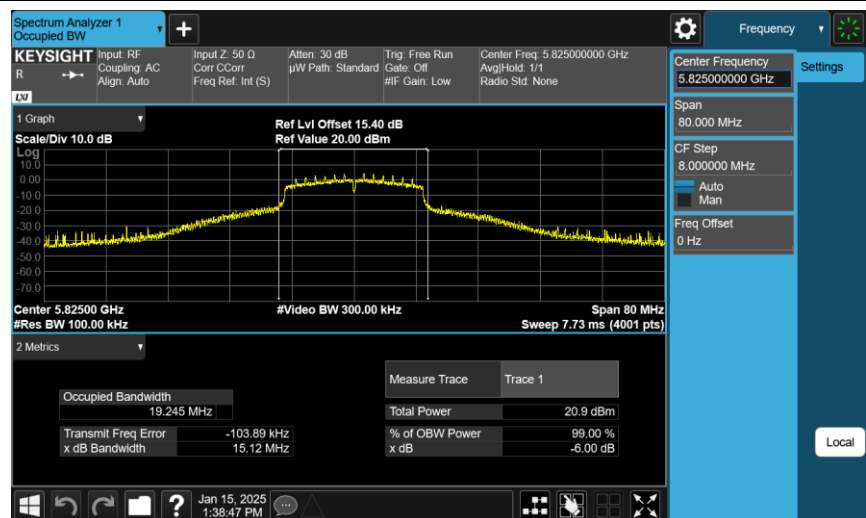
5745 MHz



5785 MHz



5825 MHz

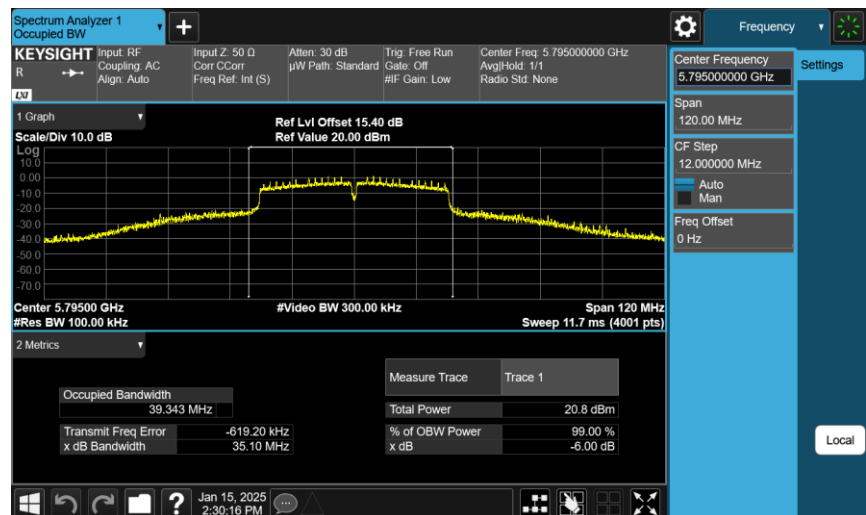


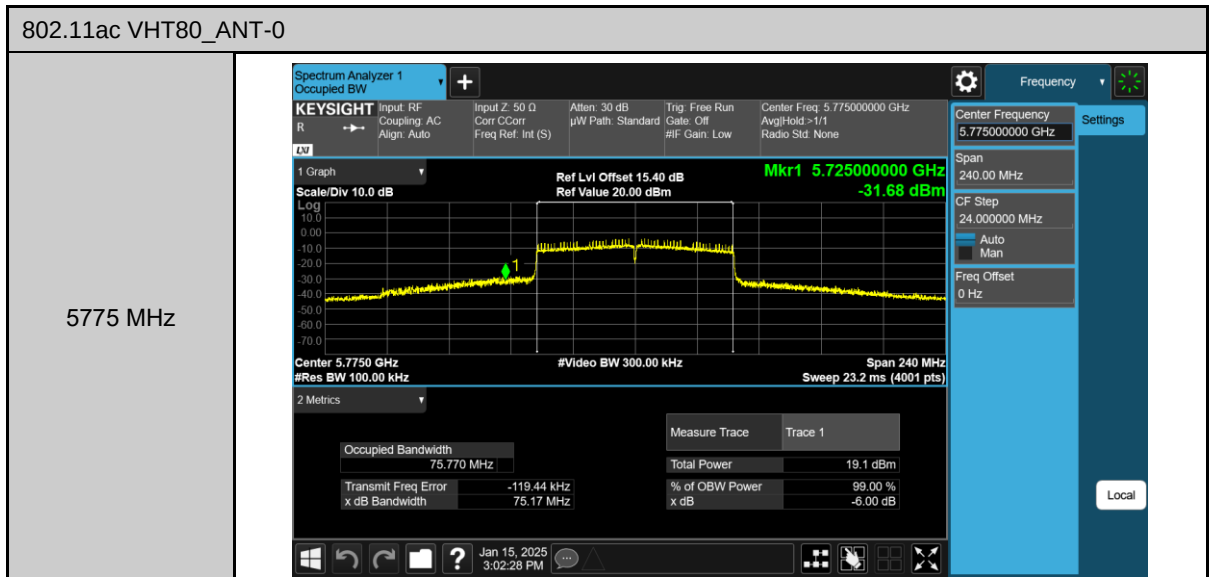
802.11ac VHT40_ANT-0

5755 MHz



5795 MHz





99% Occupied Bandwidth



802.11ac VHT20_ANT-0

5745 MHz



5785 MHz

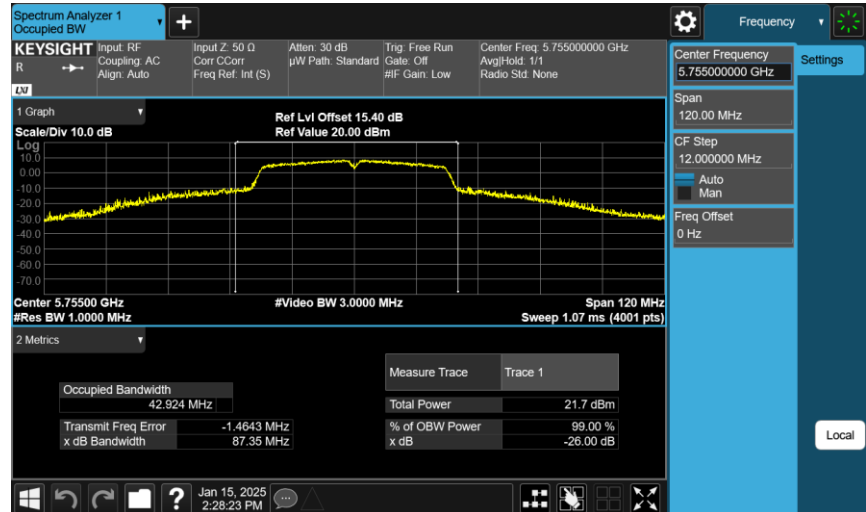


5825 MHz



802.11ac VHT40_ANT-0

5755 MHz



5795 MHz

