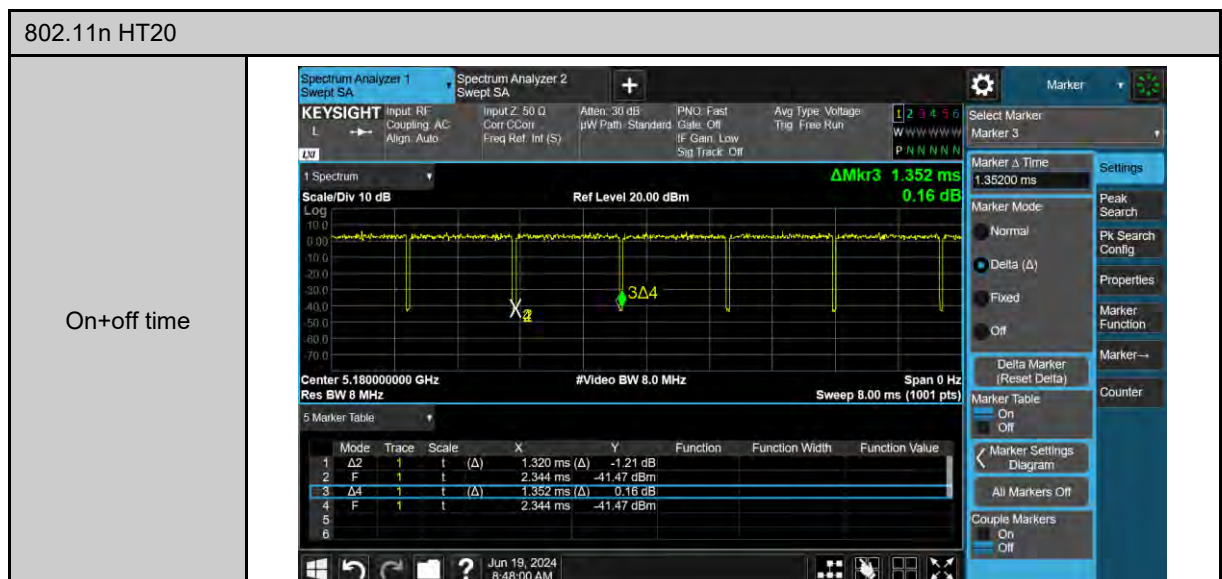
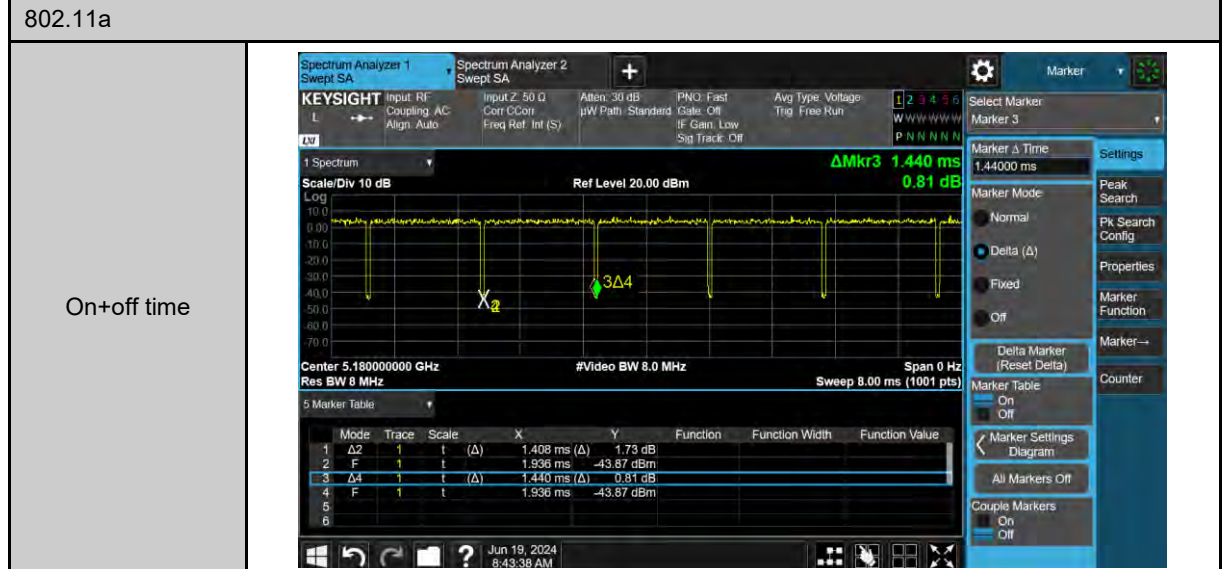


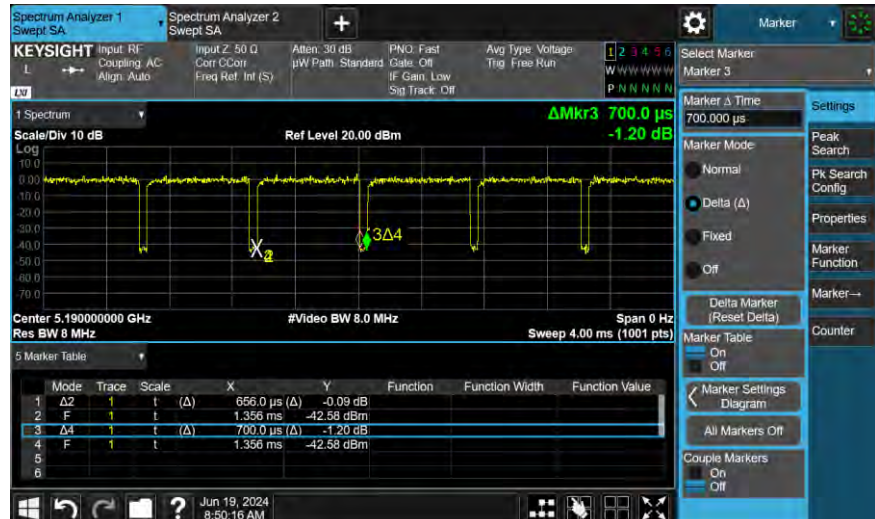
Appendix B. Test Plots

Duty cycle



802.11n HT40

On+off time



802.11ac VHT20

On+off time



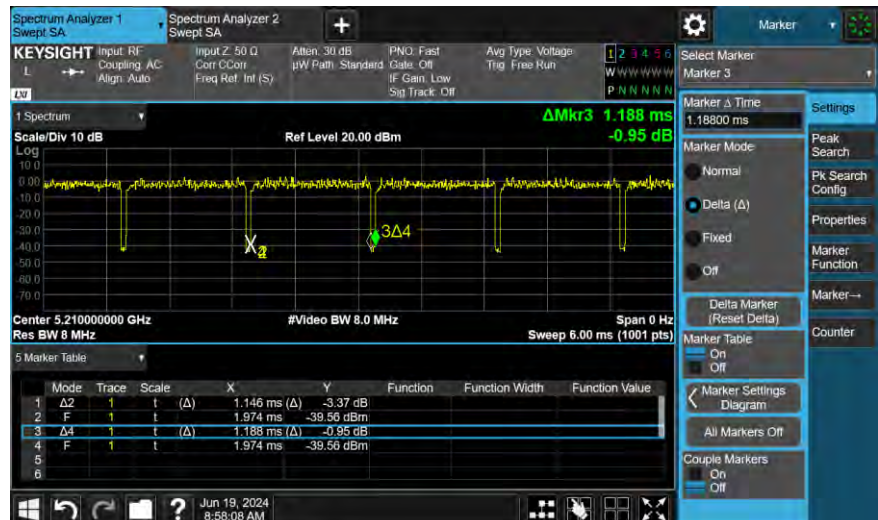
802.11ac VHT40

On+off time



802.11ac VHT80

On+off time



Maximum Power Spectral Density

802.11a_ANT-0 5180 MHz	
5200 MHz	
5240 MHz	

802.11a_ANT-0

5260 MHz



5280 MHz



5320 MHz



802.11a_ANT-0

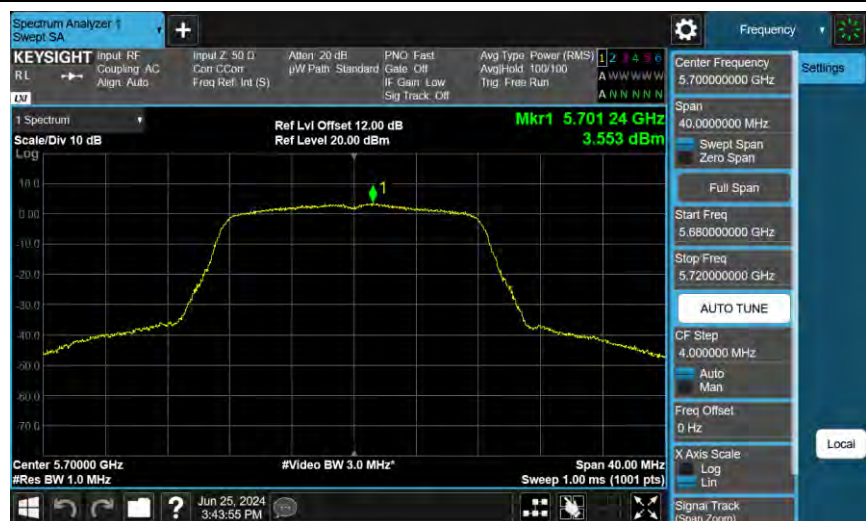
5500 MHz



5560 MHz



5700 MHz



802.11a_ANT-0

5720 MHz



5720 MHz



802.11a_ANT-0



802.11ac VHT20_ANT-0



802.11ac VHT20_ANT-0

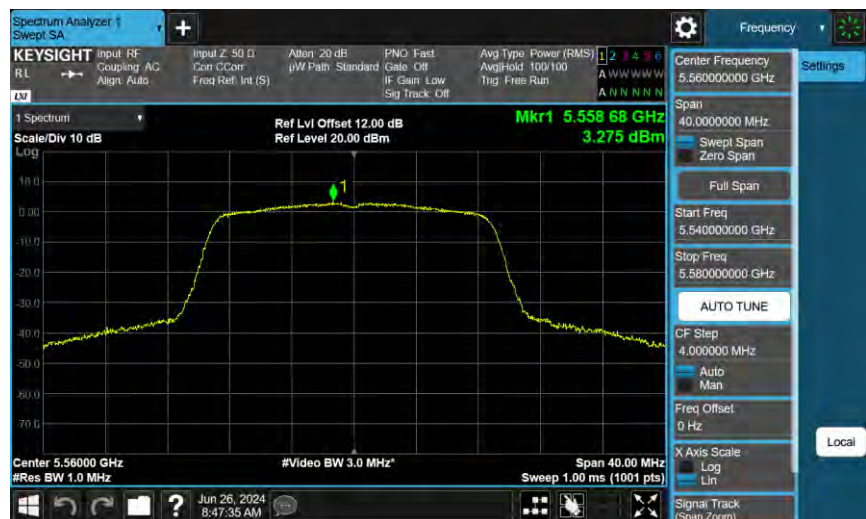


802.11ac VHT20_ANT-0

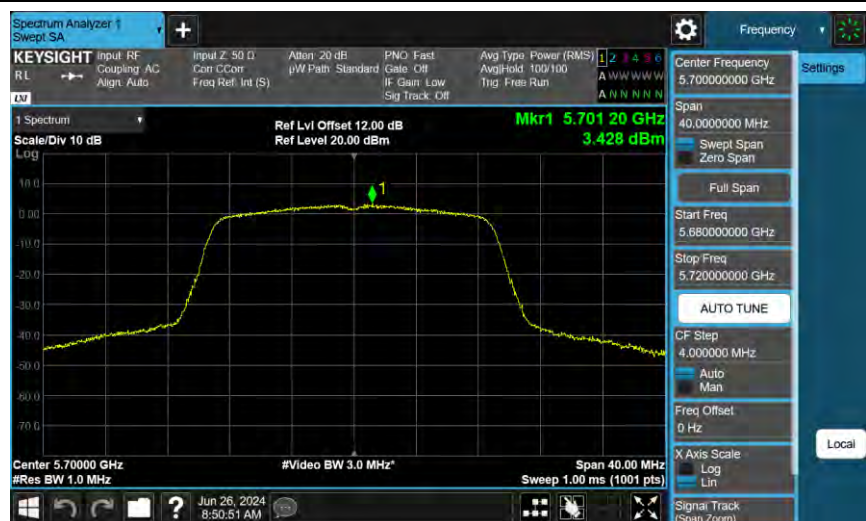
5500 MHz



5560 MHz



5700 MHz



802.11ac VHT20_ANT-0



802.11ac VHT20_ANT-0



802.11ac VHT40_ANT-0

5190 MHz



5230 MHz



802.11ac VHT40_ANT-0



802.11ac VHT40_ANT-0

5510 MHz



5550 MHz



5670 MHz



802.11ac VHT40_ANT-0

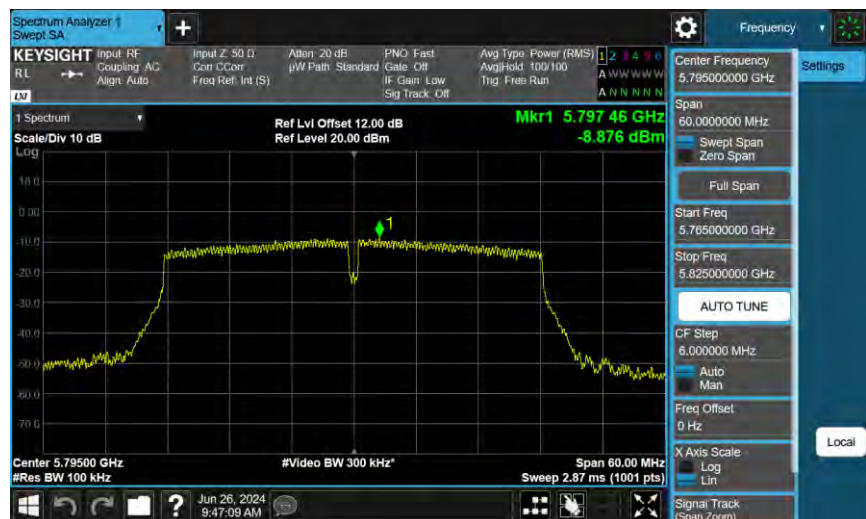


802.11ac VHT40_ANT-0

5755 MHz



5795 MHz



802.11ac VHT80_ANT-0

5210 MHz



5290 MHz



802.11ac VHT80_ANT-0

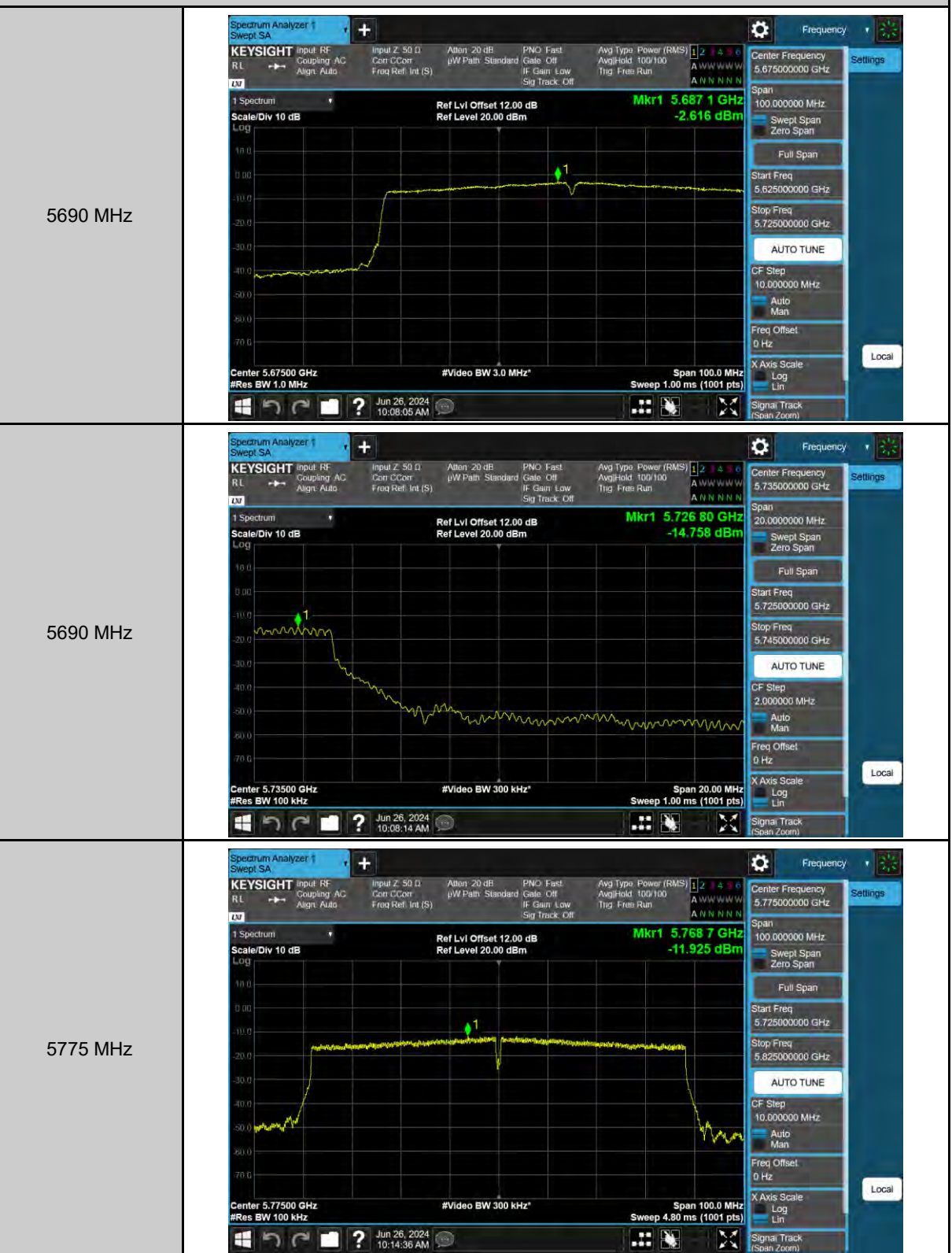
5530 MHz



5610 MHz



802.11ac VHT80_ANT-0

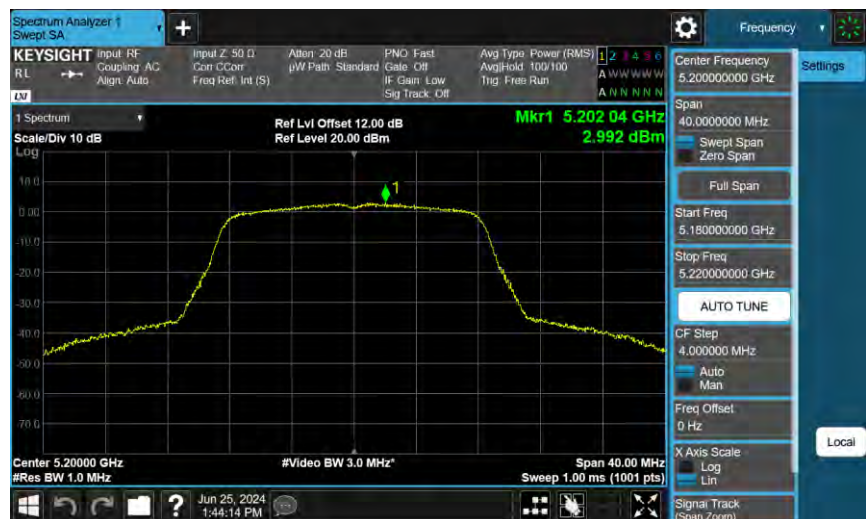


802.11a_ANT-1

5180 MHz



5200 MHz



5240 MHz



802.11a_ANT-1

5260 MHz



5280 MHz



5320 MHz



802.11a_ANT-1

5500 MHz



5560 MHz



5700 MHz



802.11a_ANT-1

5720 MHz



5720 MHz

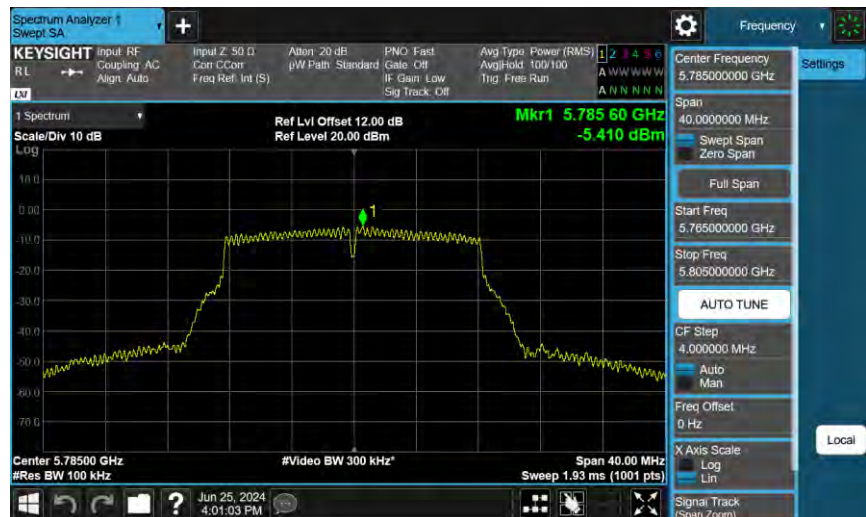


802.11a_ANT-1

5745 MHz



5785 MHz



5825 MHz

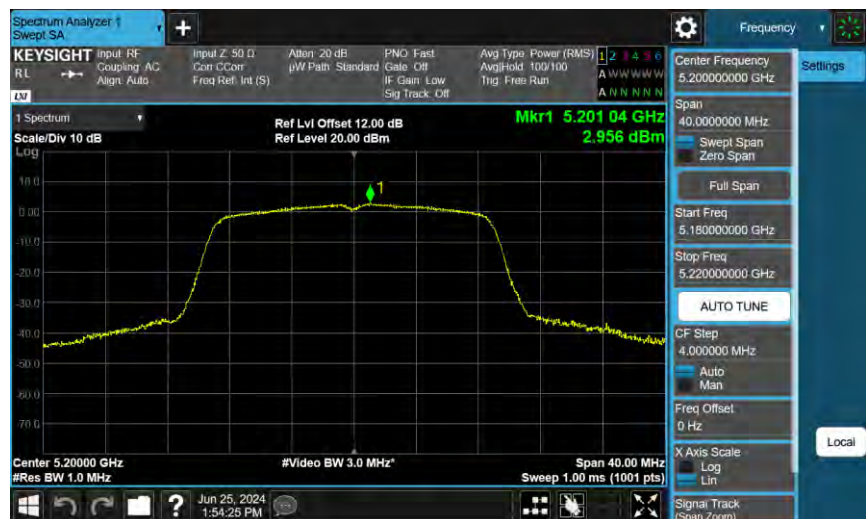


802.11ac VHT20_ANT-1

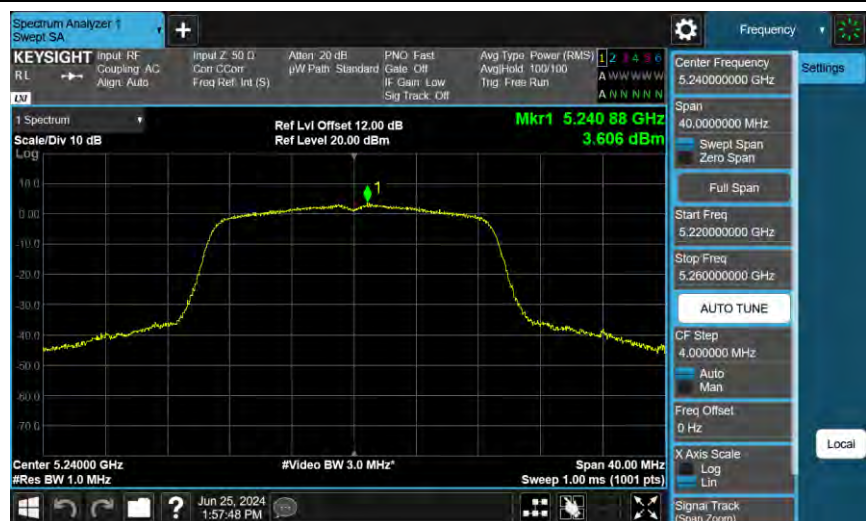
5180 MHz



5200 MHz



5240 MHz



802.11ac VHT20_ANT-1

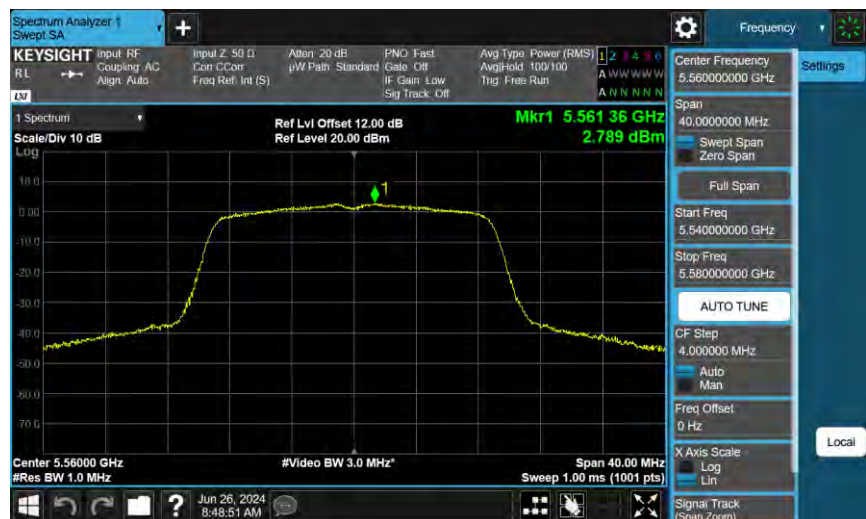


802.11ac VHT20_ANT-1

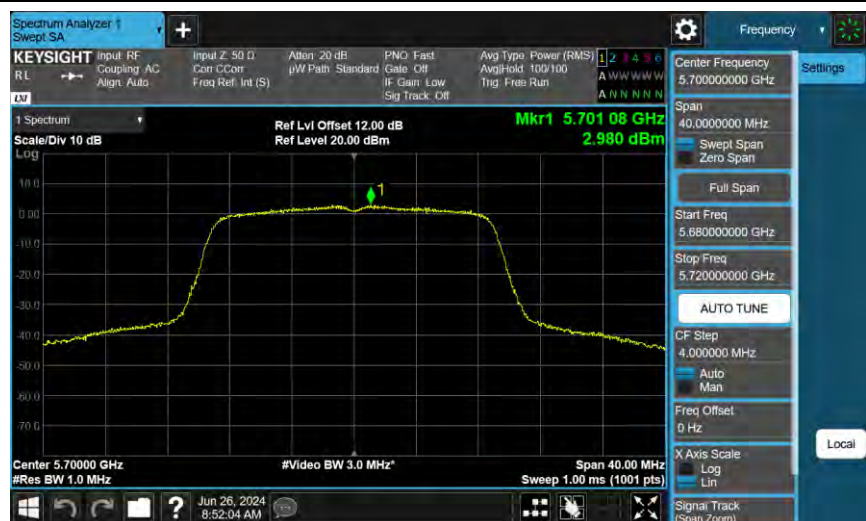
5500 MHz



5560 MHz



5700 MHz



802.11ac VHT20_ANT-1



802.11ac VHT20_ANT-1



802.11ac VHT40_ANT-1



802.11ac VHT40_ANT-1

5270 MHz



5310 MHz



802.11ac VHT40_ANT-1

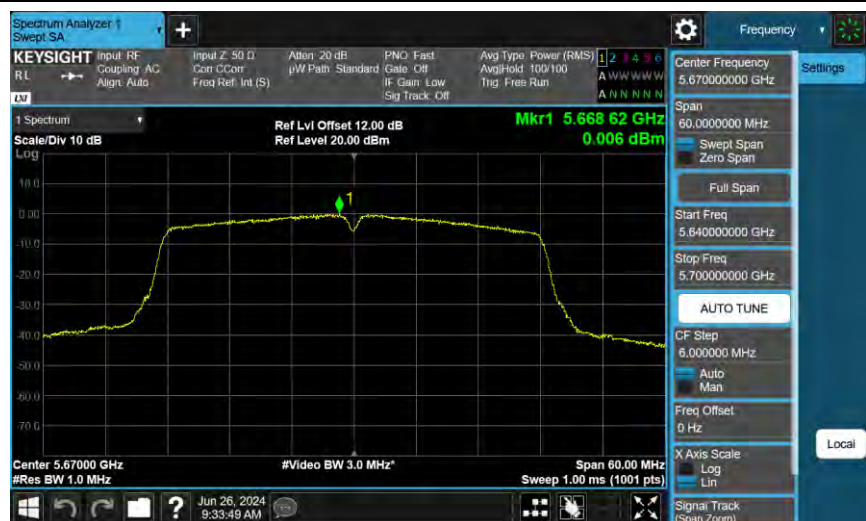
5510 MHz



5550 MHz



5670 MHz



802.11ac VHT40_ANT-1

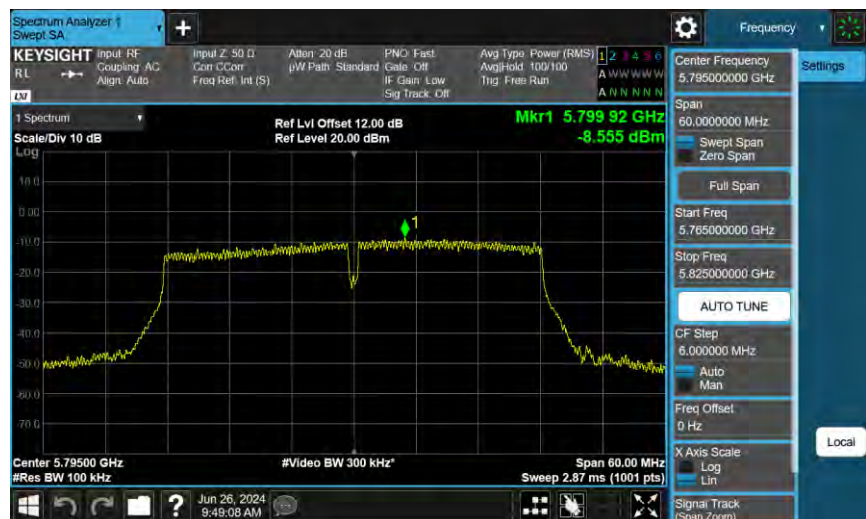


802.11ac VHT40_ANT-1

5755 MHz



5795 MHz



802.11ac VHT80_ANT-1

5210 MHz



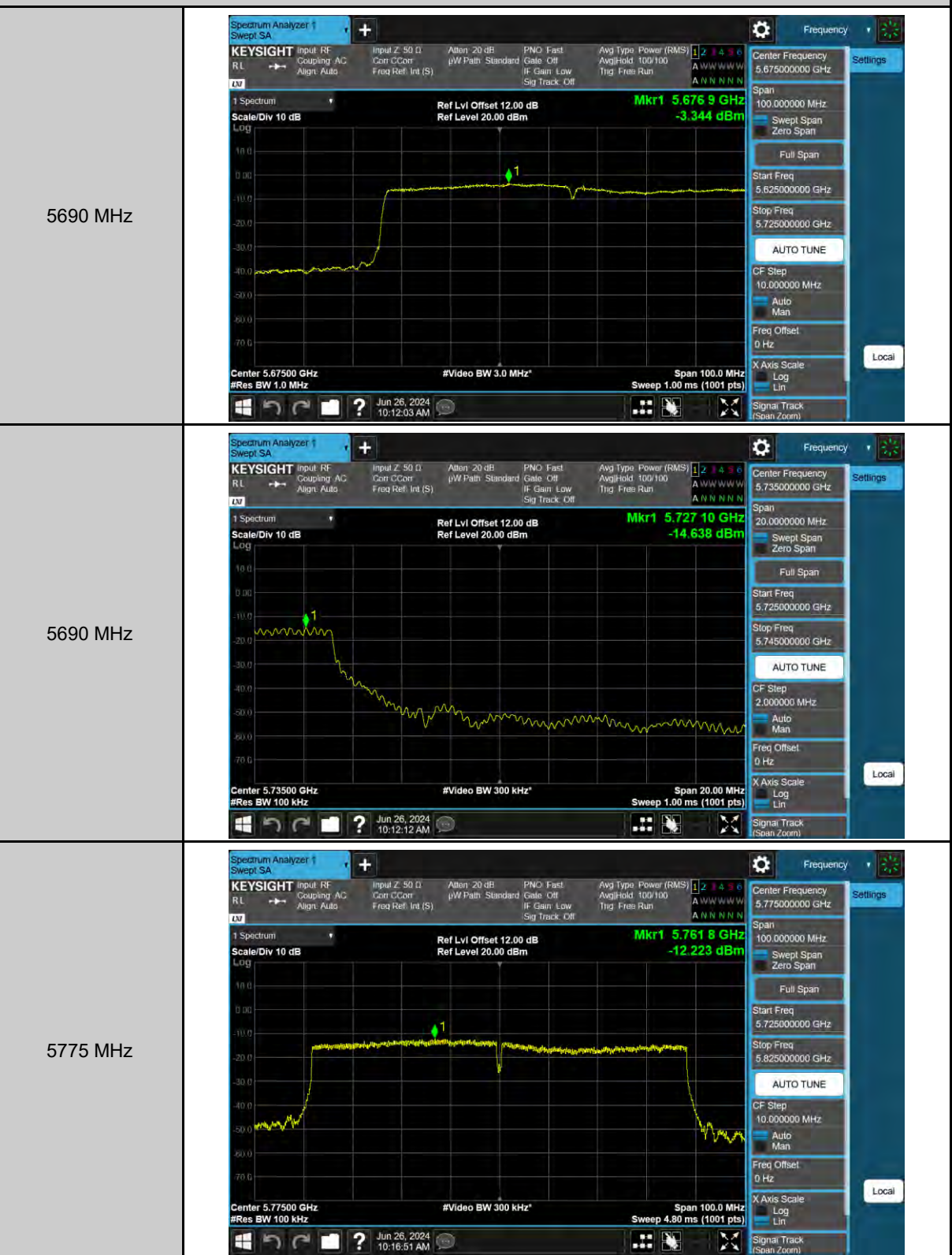
5290 MHz



802.11ac VHT80_ANT-1



802.11ac VHT80_ANT-1



26 dB Bandwidth & 99% Occupied Bandwidth

802.11a_ANT-0 5180 MHz	 Center Frequency: 5.18000000 GHz Span: 80.000 MHz CF Step: 8.000000 MHz Freq Offset: 0 Hz Occupied Bandwidth: 16.764 MHz Total Power: 20.2 dBm % of OBW Power: 99.00 %
5200 MHz	 Center Frequency: 5.20000000 GHz Span: 80.000 MHz CF Step: 8.000000 MHz Freq Offset: 0 Hz Occupied Bandwidth: 16.912 MHz Total Power: 20.0 dBm % of OBW Power: 99.00 %
5240 MHz	 Center Frequency: 5.24000000 GHz Span: 80.000 MHz CF Step: 8.000000 MHz Freq Offset: 0 Hz Occupied Bandwidth: 16.927 MHz Total Power: 20.2 dBm % of OBW Power: 99.00 % Mkr1 5.25000000 GHz -17.20 dBm

802.11a_ANT-0

5260 MHz



5280 MHz



5320 MHz



802.11a_ANT-0

5500 MHz

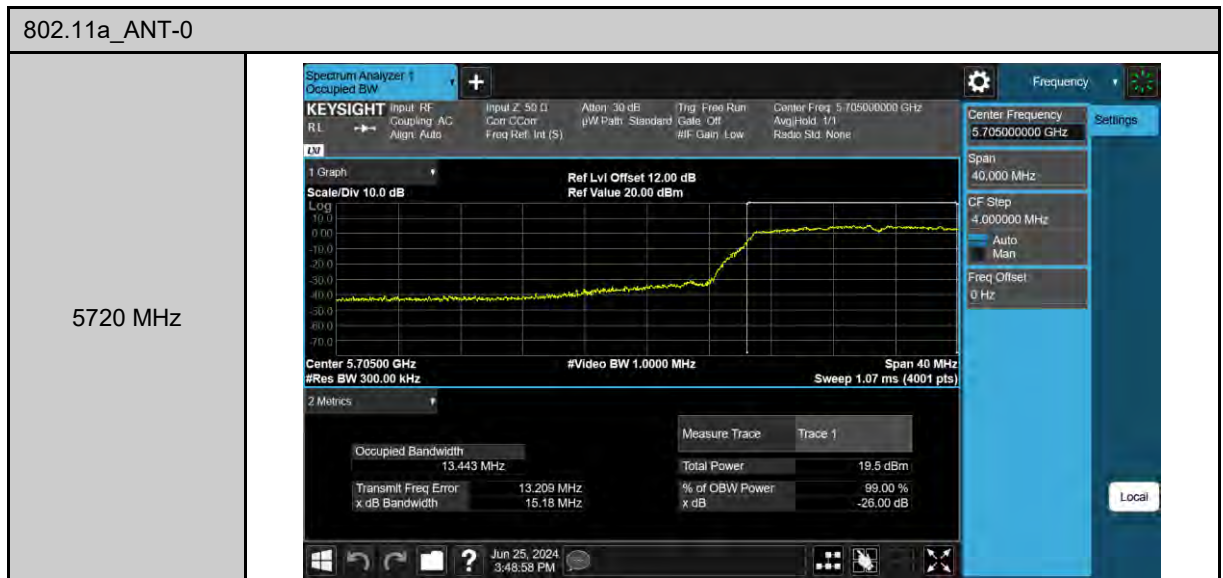


5560 MHz



5700 MHz





802.11ac VHT20_ANT-0

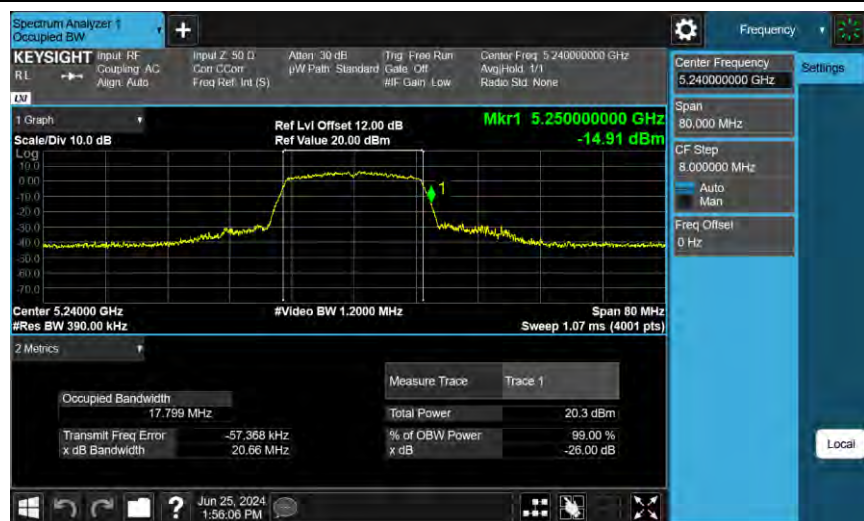
5180 MHz



5200 MHz



5240 MHz



802.11ac VHT20_ANT-0

5260 MHz



5280 MHz



5320 MHz



802.11ac VHT20_ANT-0

5500 MHz

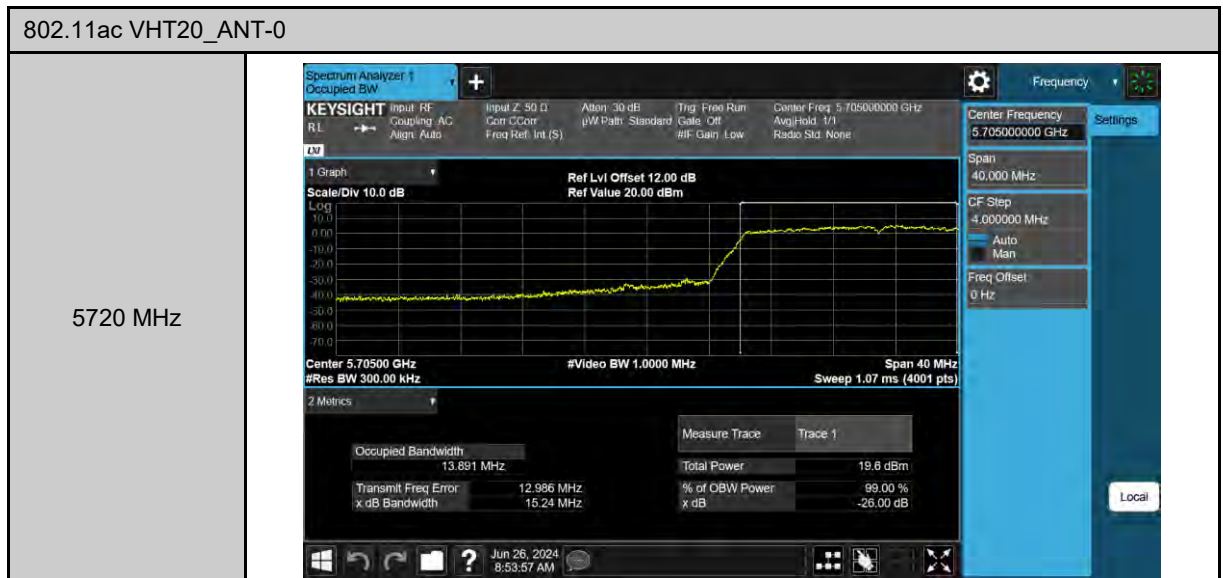


5560 MHz



5700 MHz





802.11ac VHT40_ANT-0

5190 MHz



5230 MHz



5270 MHz



802.11ac VHT40_ANT-0

5310 MHz



5510 MHz



5550 MHz



802.11ac VHT40_ANT-0

5670 MHz



5710 MHz



802.11ac VHT80_ANT-0

5210 MHz



5290 MHz



5530 MHz



802.11ac VHT80_ANT-0

5610 MHz



5690 MHz



802.11a_ANT-1

5180 MHz



5200 MHz



5240 MHz



802.11a_ANT-1 5260 MHz	 Center Frequency: 5.26000000 GHz Span: 80.000 MHz CF Step: 8.000000 MHz Freq Offset: 0 Hz Occupied Bandwidth: 16.726 MHz Total Power: 20.4 dBm Transmit Freq Error: -254.30 kHz x dB Bandwidth: 20.10 MHz
5280 MHz	 Center Frequency: 5.28000000 GHz Span: 80.000 MHz CF Step: 8.000000 MHz Freq Offset: 0 Hz Occupied Bandwidth: 16.630 MHz Total Power: 20.5 dBm Transmit Freq Error: -47.664 kHz x dB Bandwidth: 20.26 MHz
5320 MHz	 Center Frequency: 5.32000000 GHz Span: 80.000 MHz CF Step: 8.000000 MHz Freq Offset: 0 Hz Occupied Bandwidth: 16.552 MHz Total Power: 20.2 dBm Transmit Freq Error: -66.891 kHz x dB Bandwidth: 20.31 MHz

802.11a_ANT-1 5500 MHz	
5560 MHz	
5700 MHz	



802.11ac VHT20_ANT-1

5180 MHz	 Keysight Spectrum Analyzer 1 Occupied BW Center Frequency: 5.18000000 GHz Span: 80.000 MHz CF Step: 8.000000 MHz Ref Lvl Offset: 12.00 dB Ref Value: 20.00 dBm Occupied Bandwidth: 18.324 MHz Total Power: 21.6 dBm Transmit Freq Error: -222.43 kHz % of OBW Power: 99.00 % x dB Bandwidth: 31.55 MHz x dB: -26.00 dB
5200 MHz	 Keysight Spectrum Analyzer 1 Occupied BW Center Frequency: 5.20000000 GHz Span: 80.000 MHz CF Step: 8.000000 MHz Ref Lvl Offset: 12.00 dB Ref Value: 20.00 dBm Occupied Bandwidth: 17.625 MHz Total Power: 21.0 dBm Transmit Freq Error: -52.849 kHz % of OBW Power: 99.00 % x dB Bandwidth: 20.35 MHz x dB: -26.00 dB
5240 MHz	 Keysight Spectrum Analyzer 1 Occupied BW Center Frequency: 5.24000000 GHz Span: 80.000 MHz CF Step: 8.000000 MHz Ref Lvl Offset: 12.00 dB Ref Value: 20.00 dBm Occupied Bandwidth: 17.569 MHz Total Power: 21.1 dBm Transmit Freq Error: -85.266 kHz % of OBW Power: 99.00 % x dB Bandwidth: 20.01 MHz x dB: -26.00 dB Mkr1 5.25000000 GHz -18.99 dBm

802.11ac VHT20_ANT-1

5260 MHz



5280 MHz



5320 MHz



802.11ac VHT20_ANT-1

5500 MHz



5560 MHz



5700 MHz





802.11ac VHT40_ANT-1

5190 MHz	 Keysight Spectrum Analyzer 1 Occupied BW Center Freq 5.190000 GHz Span 120.00 MHz Res BW 750.00 kHz Video BW 2.4000 MHz Total Power 21.4 dBm % of OBW Power 99.00 % x dB -26.00 dB
5230 MHz	 Keysight Spectrum Analyzer 1 Occupied BW Center Freq 5.230000 GHz Span 120.00 MHz Res BW 750.00 kHz Video BW 2.4000 MHz Total Power 21.2 dBm % of OBW Power 99.00 % x dB -26.00 dB
5270 MHz	 Keysight Spectrum Analyzer 1 Occupied BW Center Freq 5.270000 GHz Span 120.00 MHz Res BW 750.00 kHz Video BW 2.4000 MHz Total Power 21.4 dBm % of OBW Power 99.00 % x dB -26.00 dB

802.11ac VHT40_ANT-1

5310 MHz



5510 MHz



5550 MHz



802.11ac VHT40_ANT-1

5670 MHz



5710 MHz



802.11ac VHT80_ANT-1

5210 MHz



5290 MHz



5530 MHz



802.11ac VHT80_ANT-1

5610 MHz



5690 MHz

