

Appendix B. Test Plots

Duty cycle

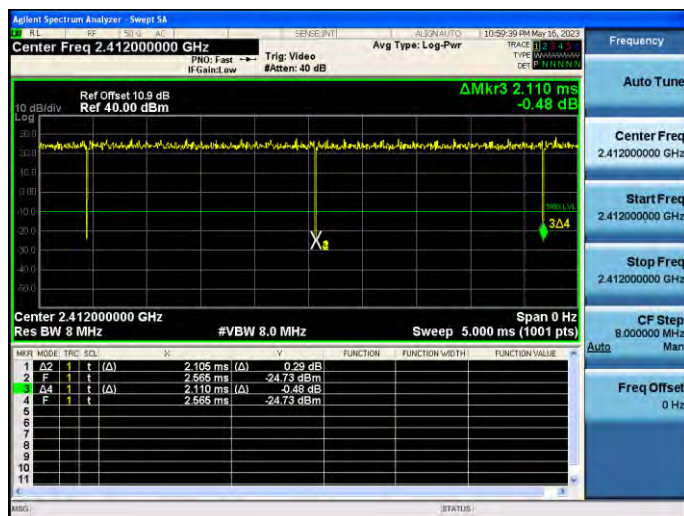
802.11b

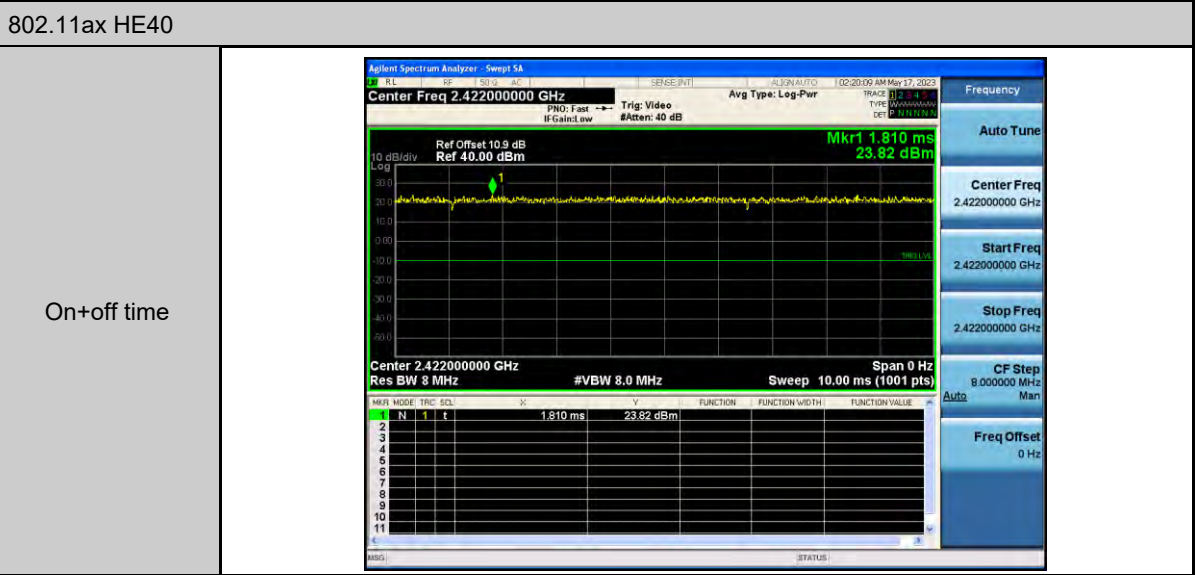
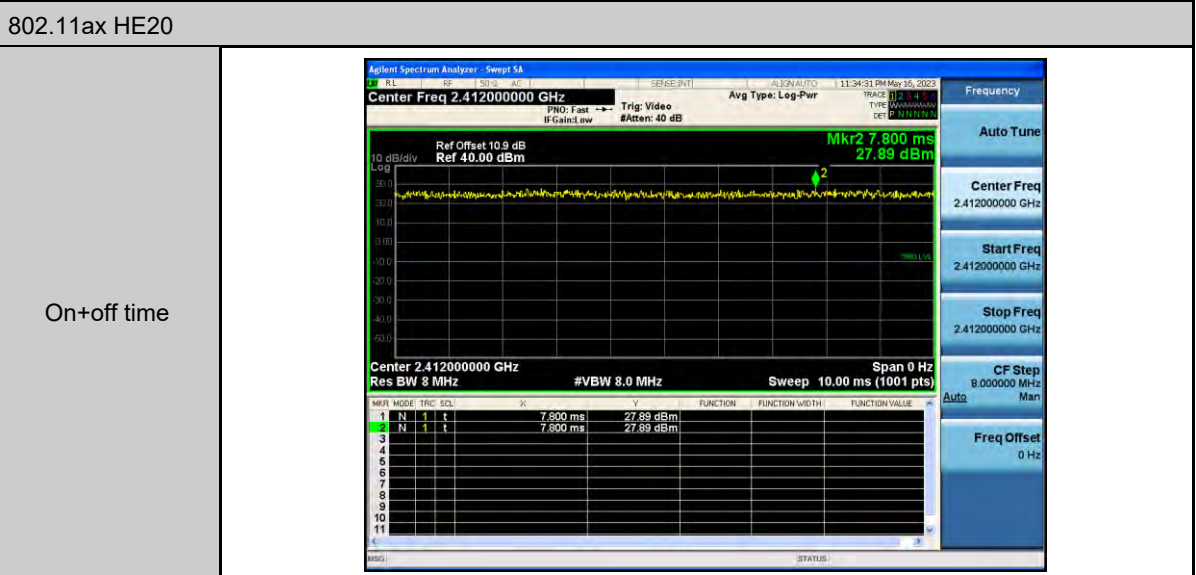
On+off time



802.11g

On+off time

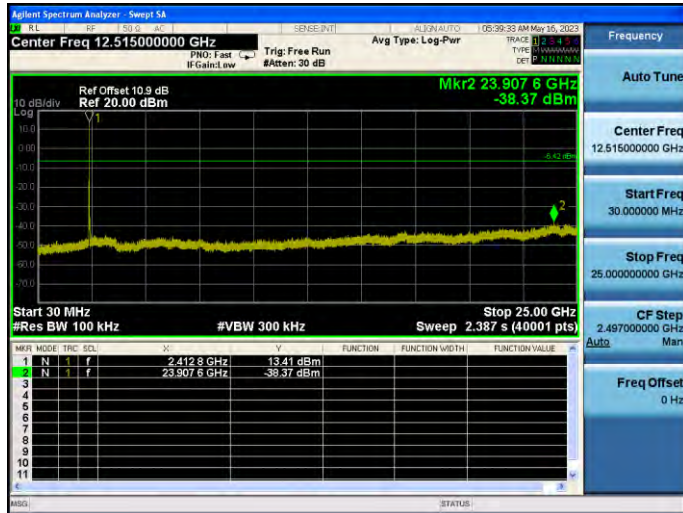




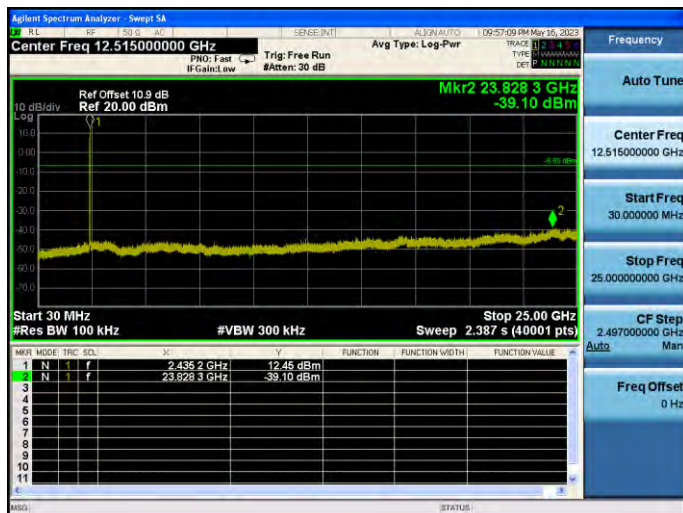
Out of Band Conducted Spurious Emission

802.11b_ANT-0

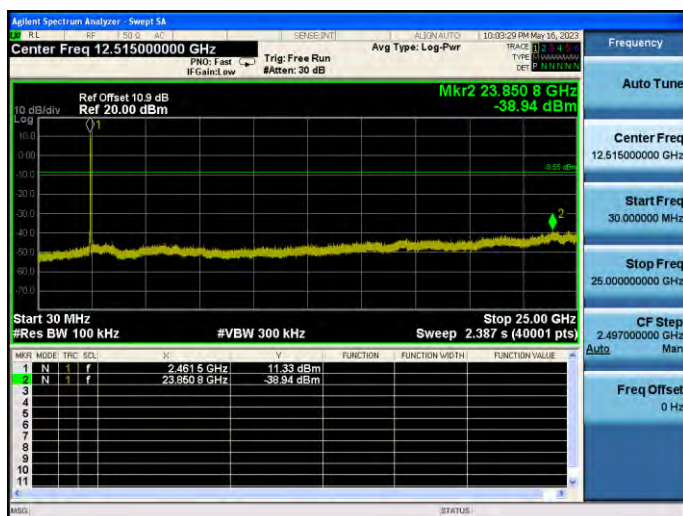
2412 MHz

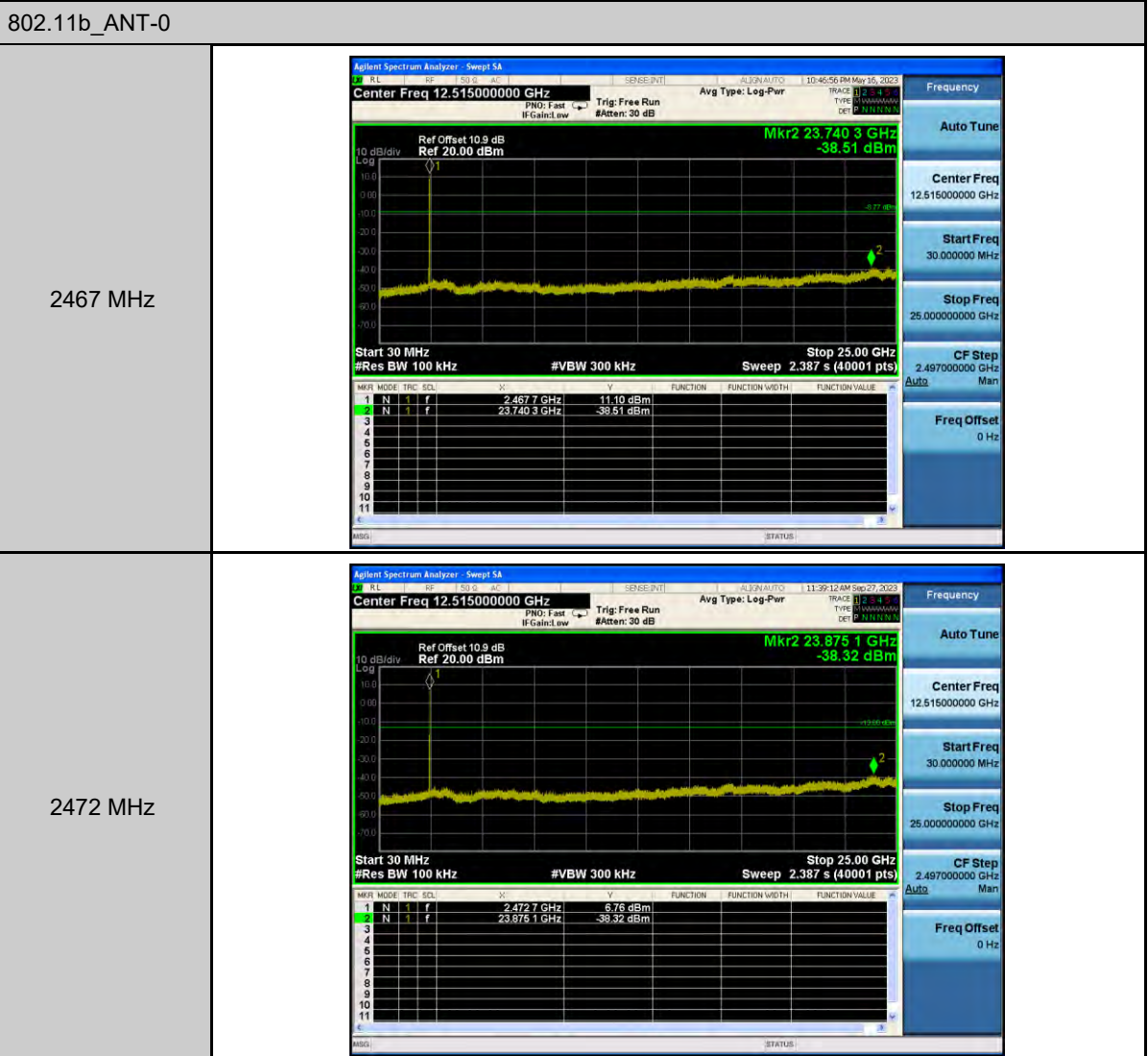


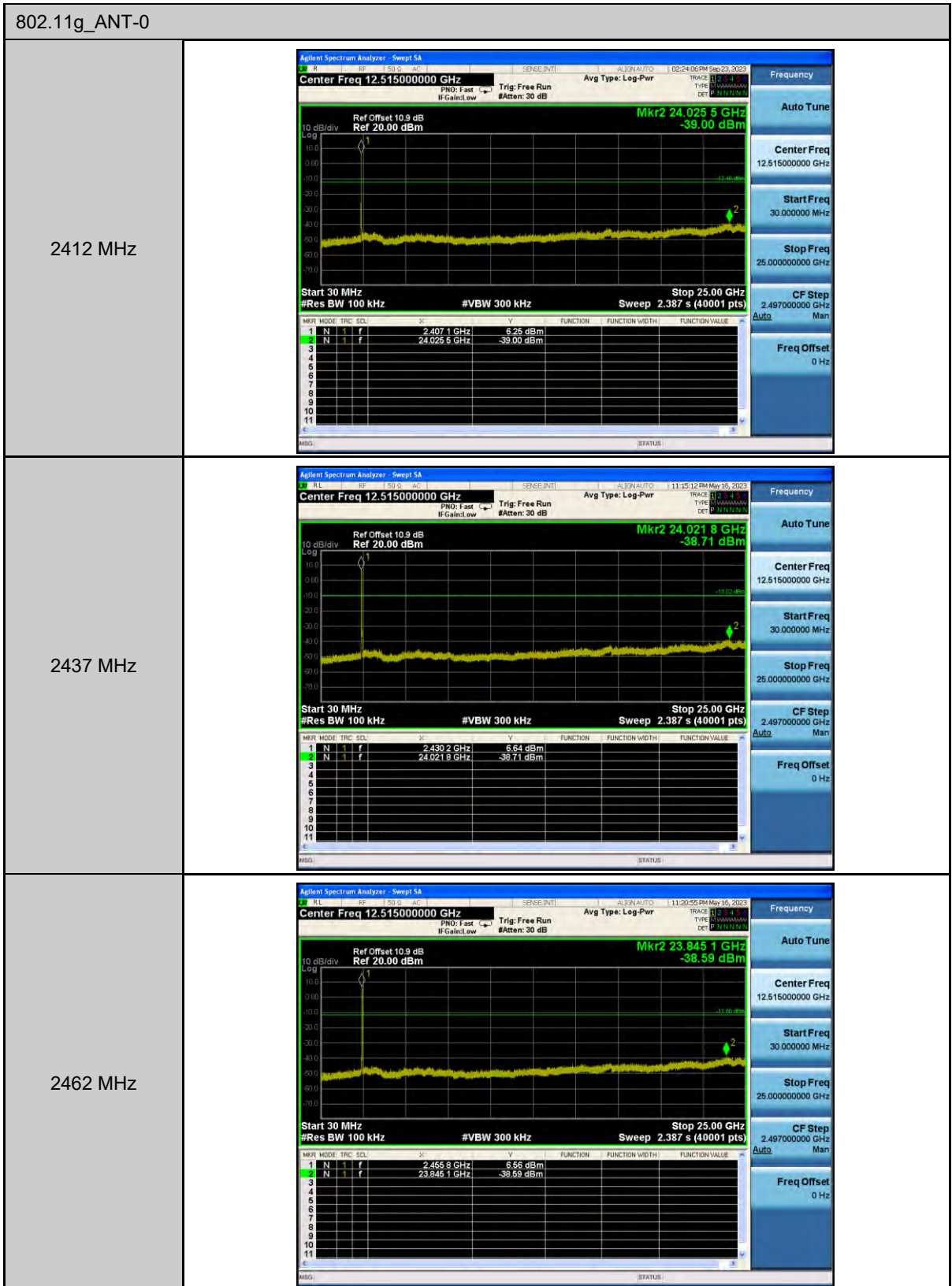
2437 MHz

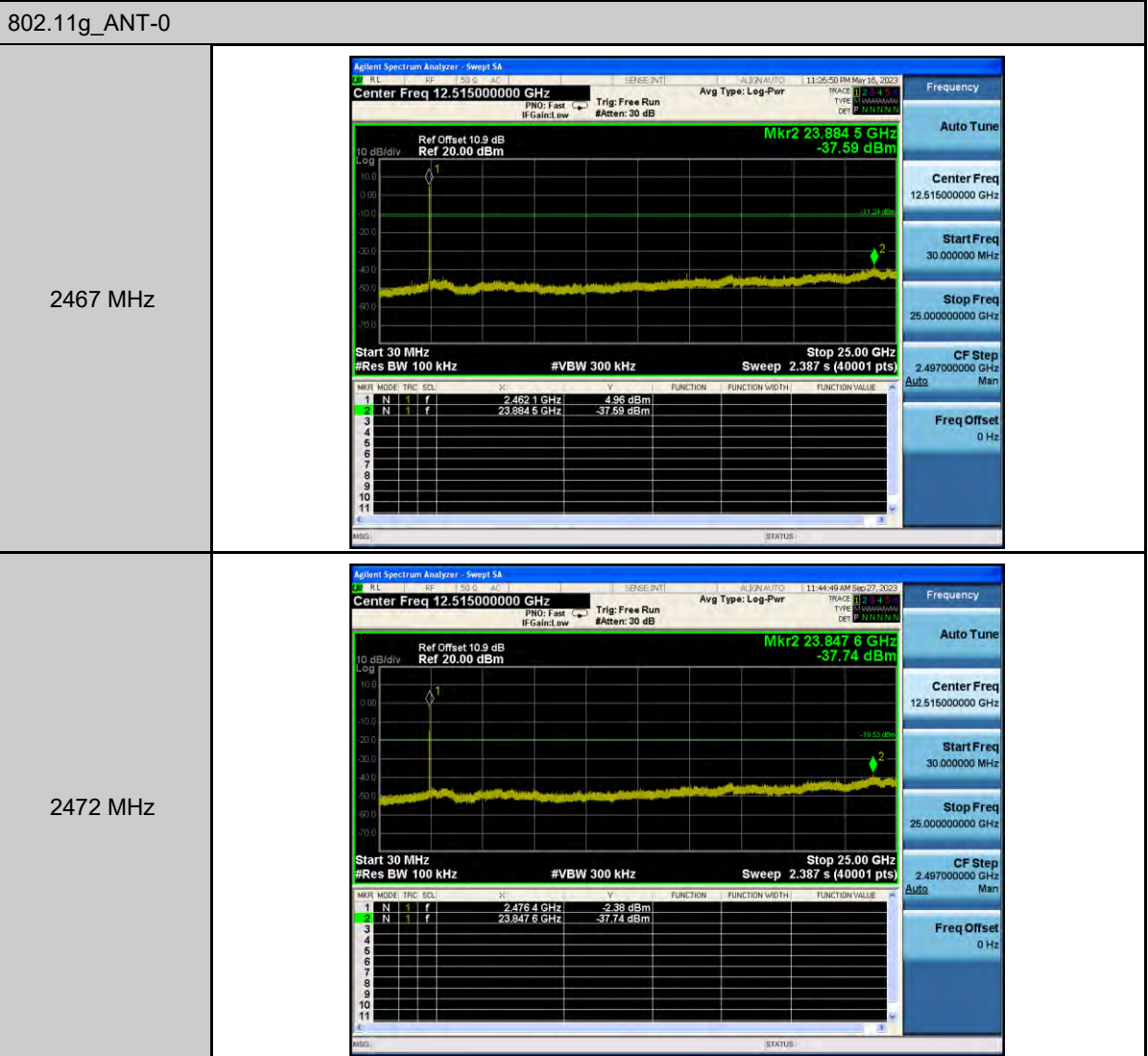


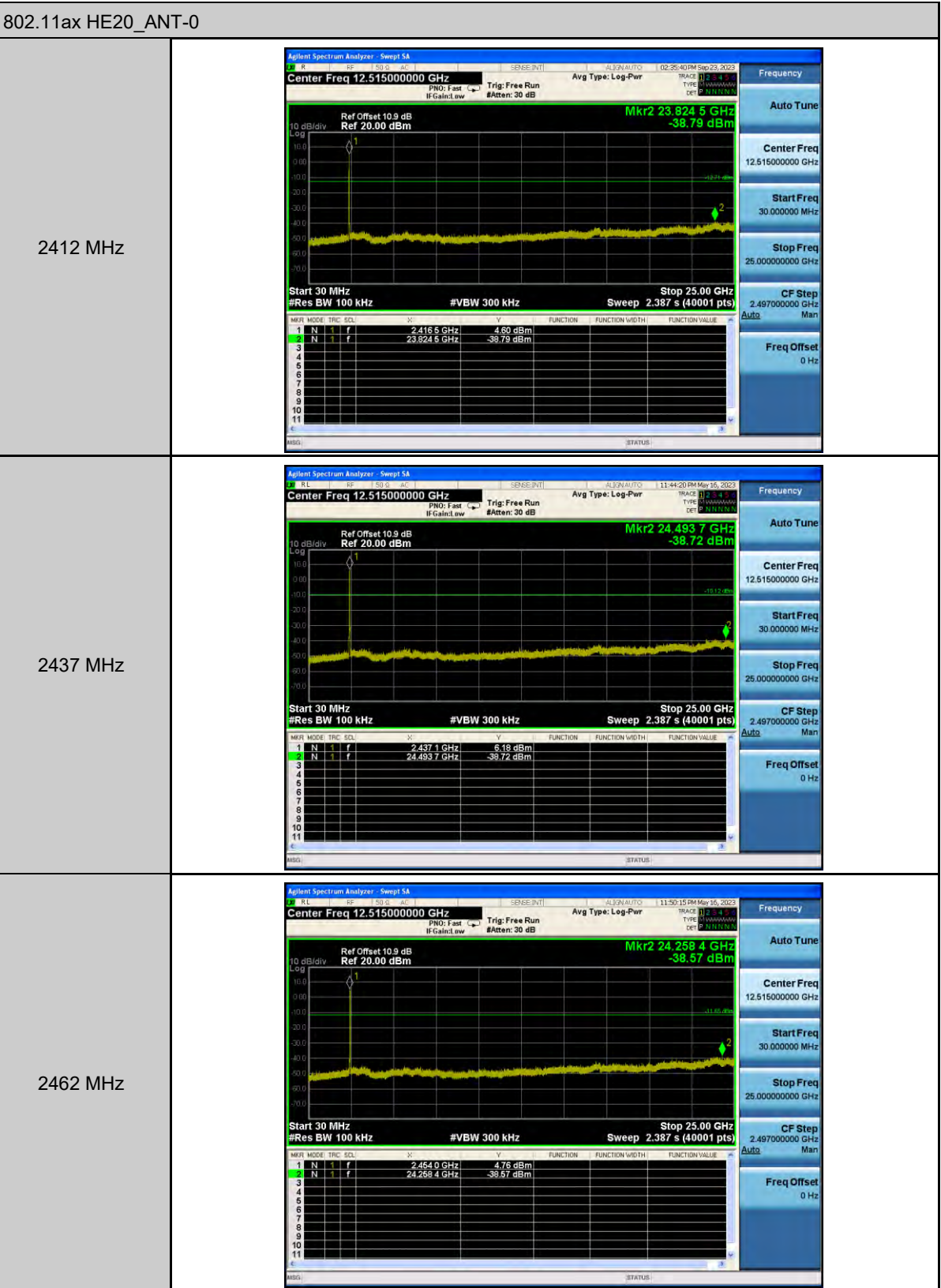
2462 MHz





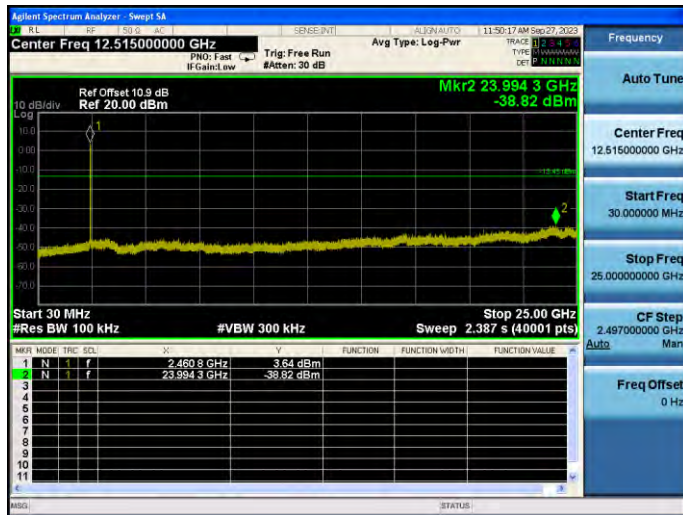




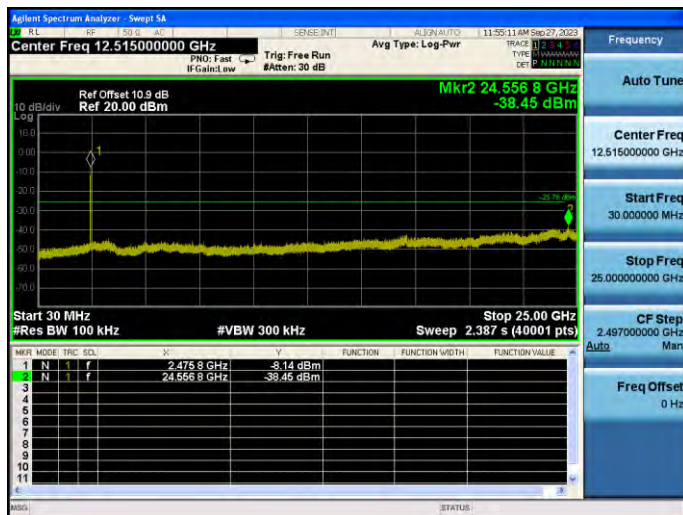


802.11ax HE20_ANT-0

2467 MHz

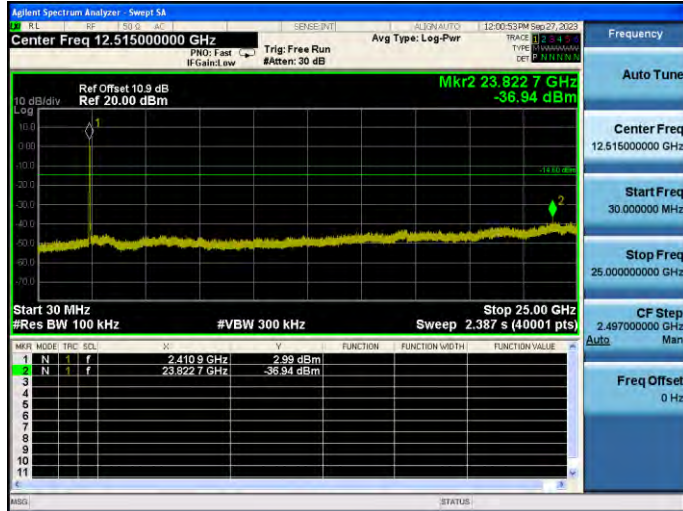


2472 MHz

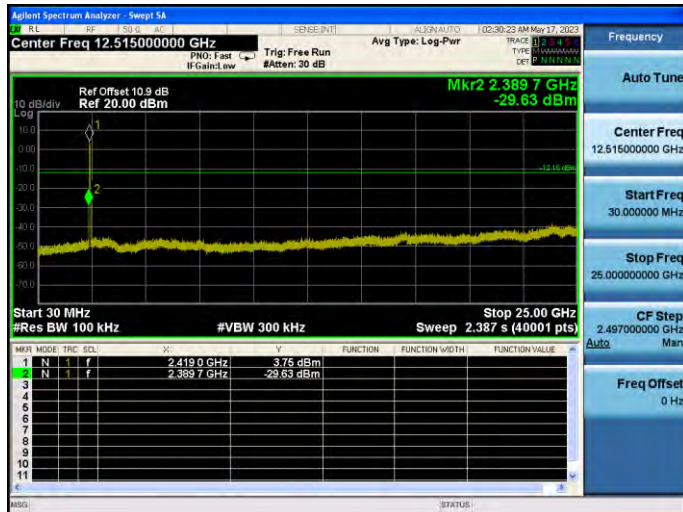


802.11ax HE40_ANT-0

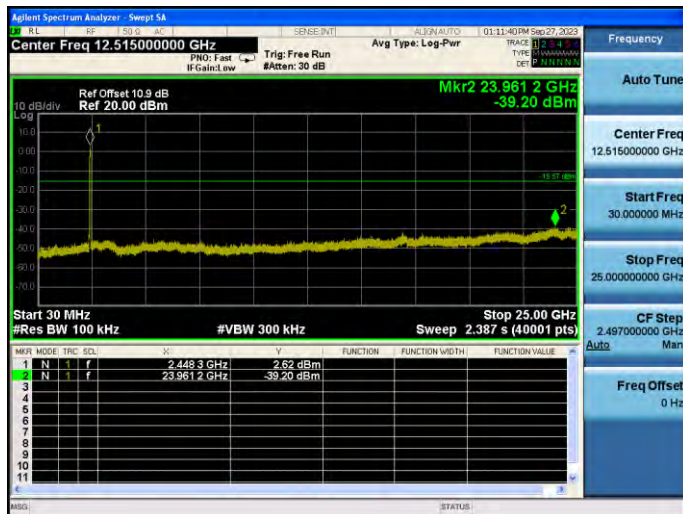
2422 MHz

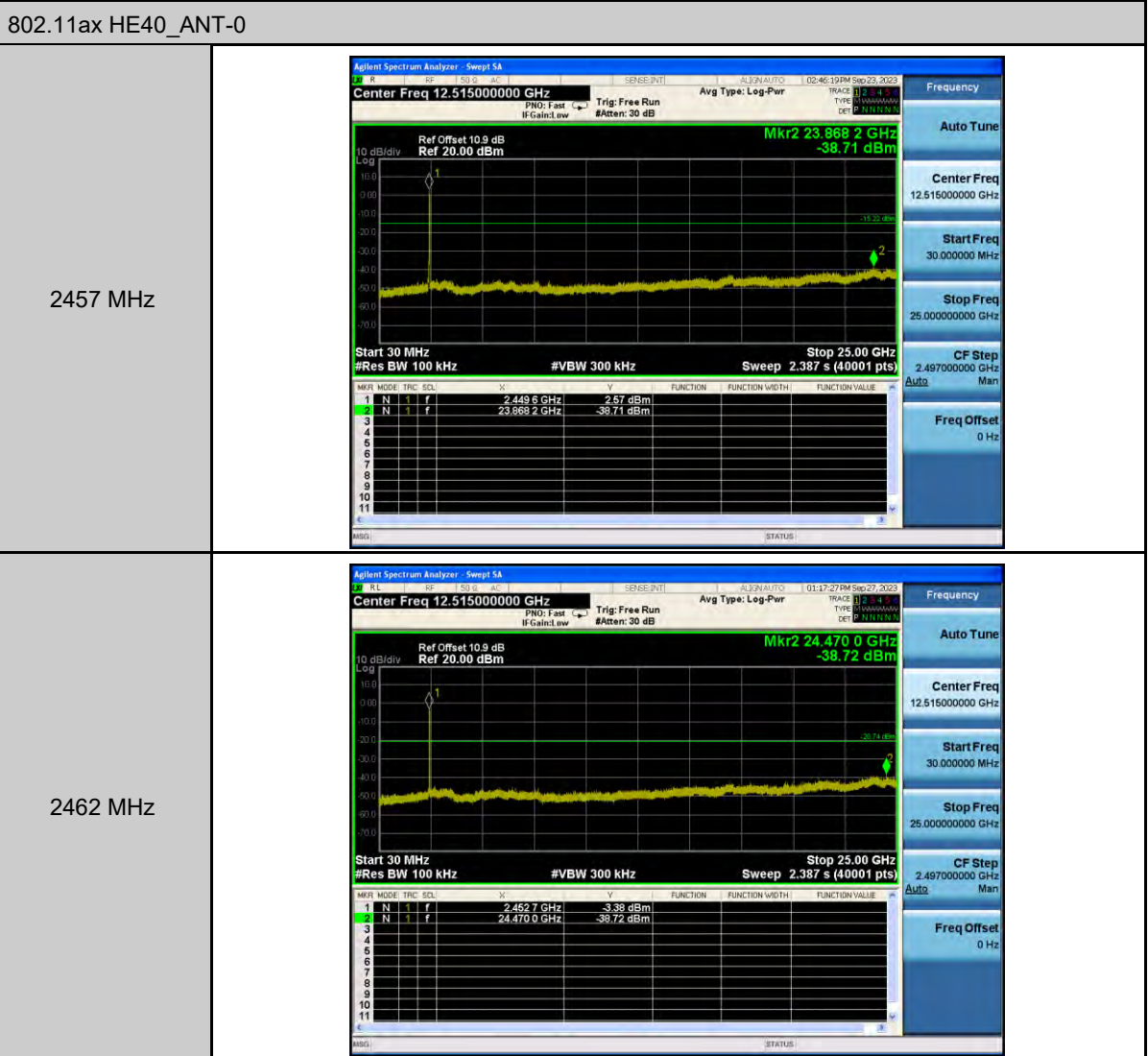


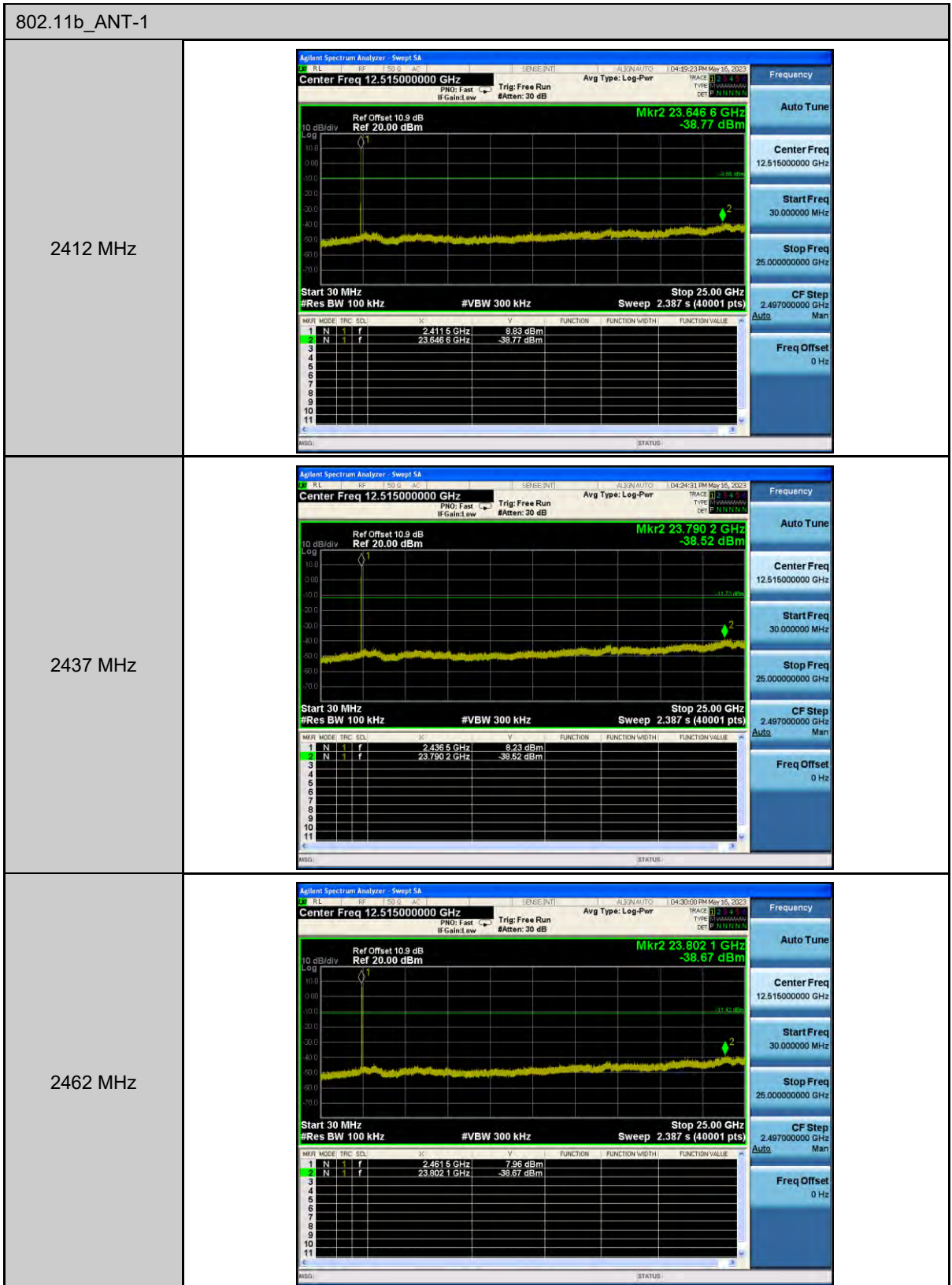
2437 MHz

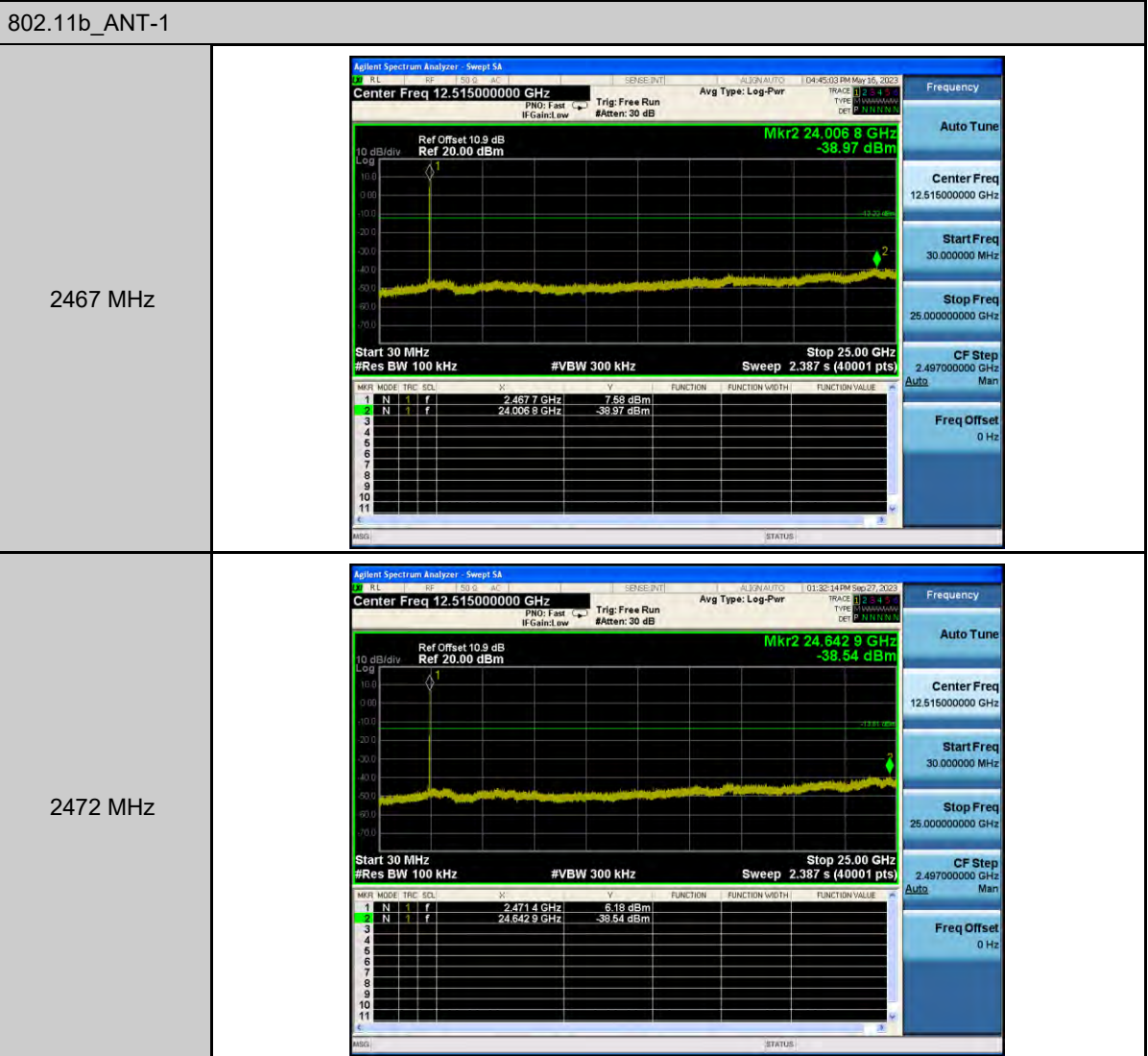


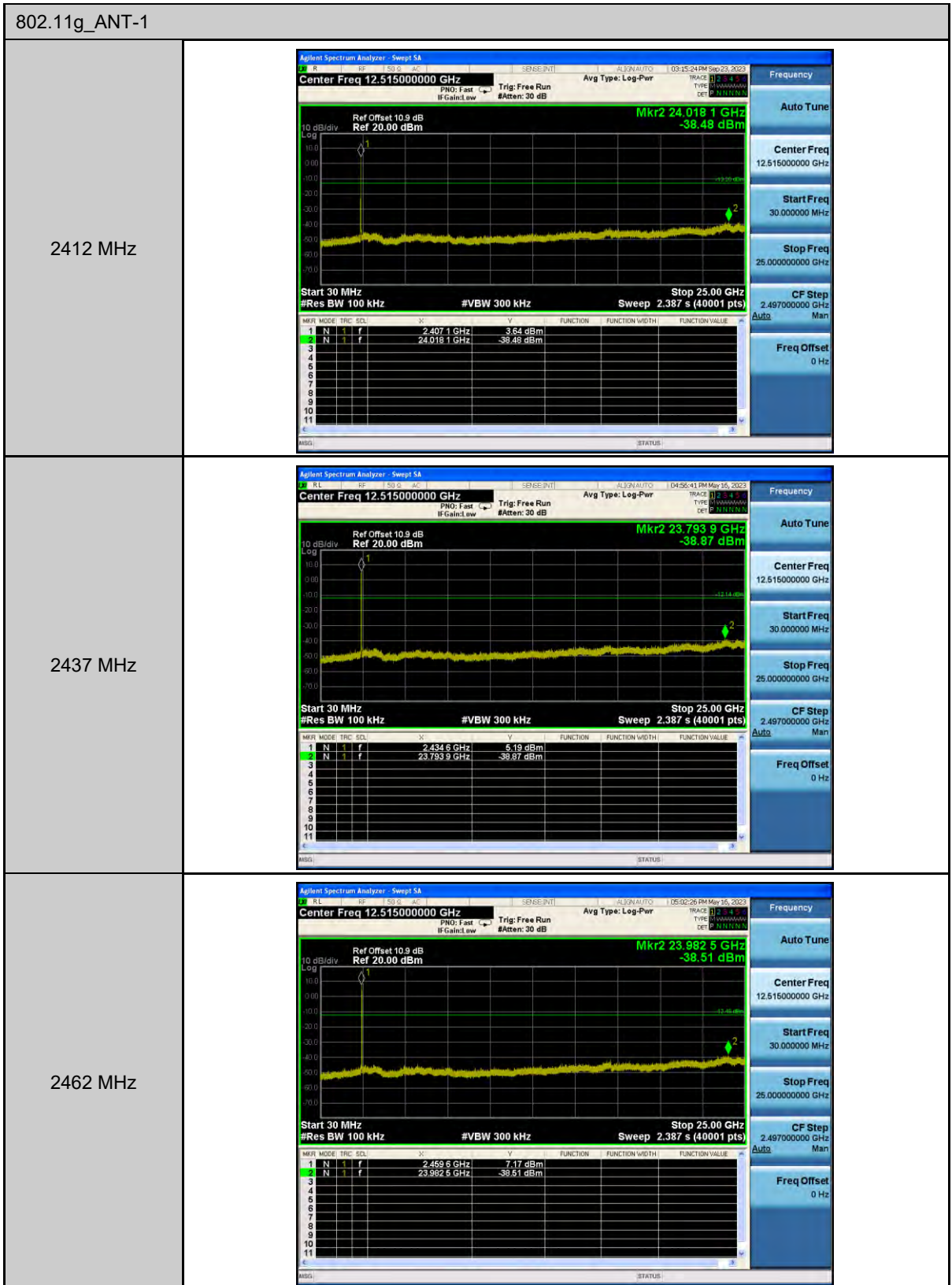
2452 MHz

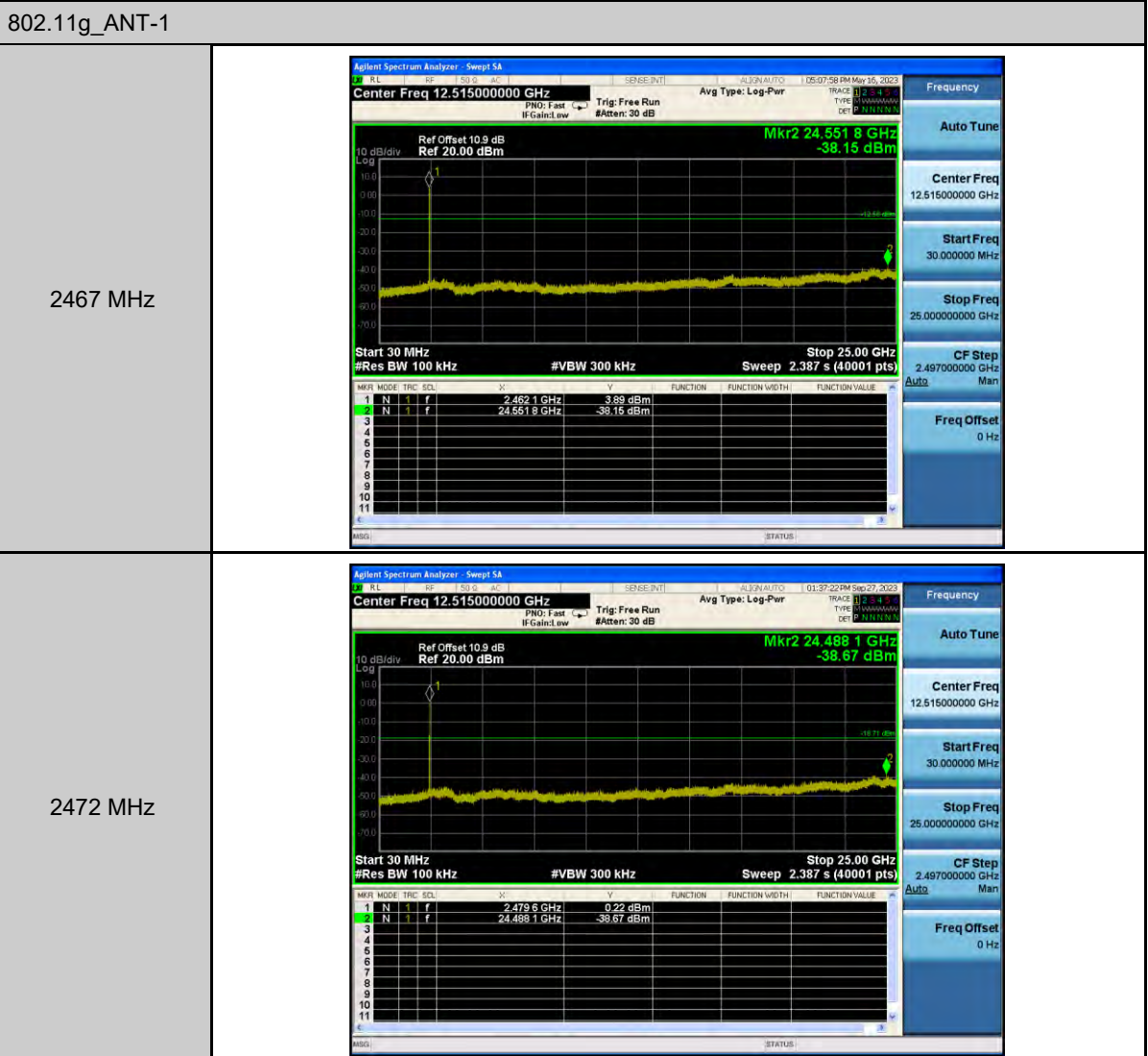


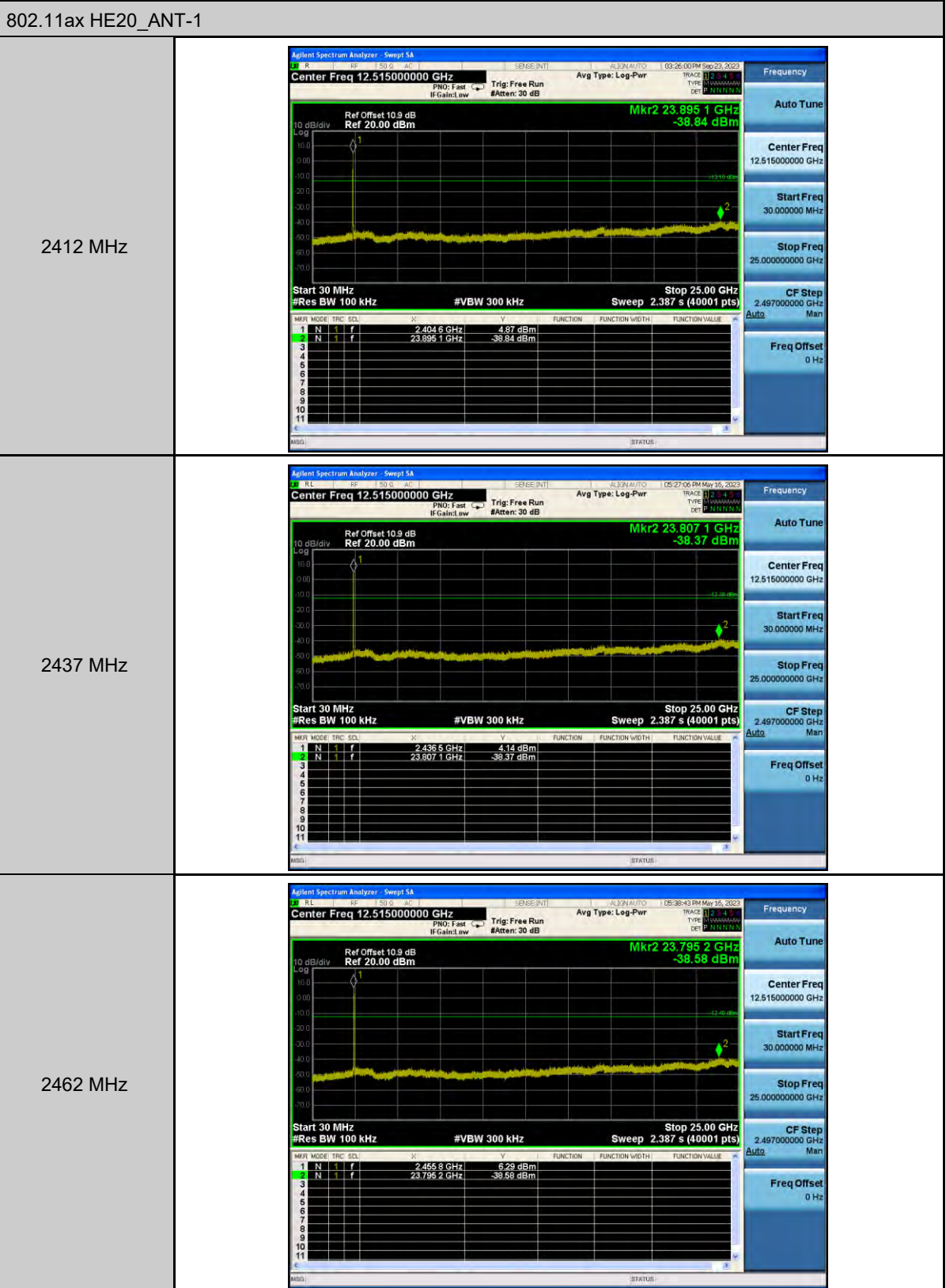


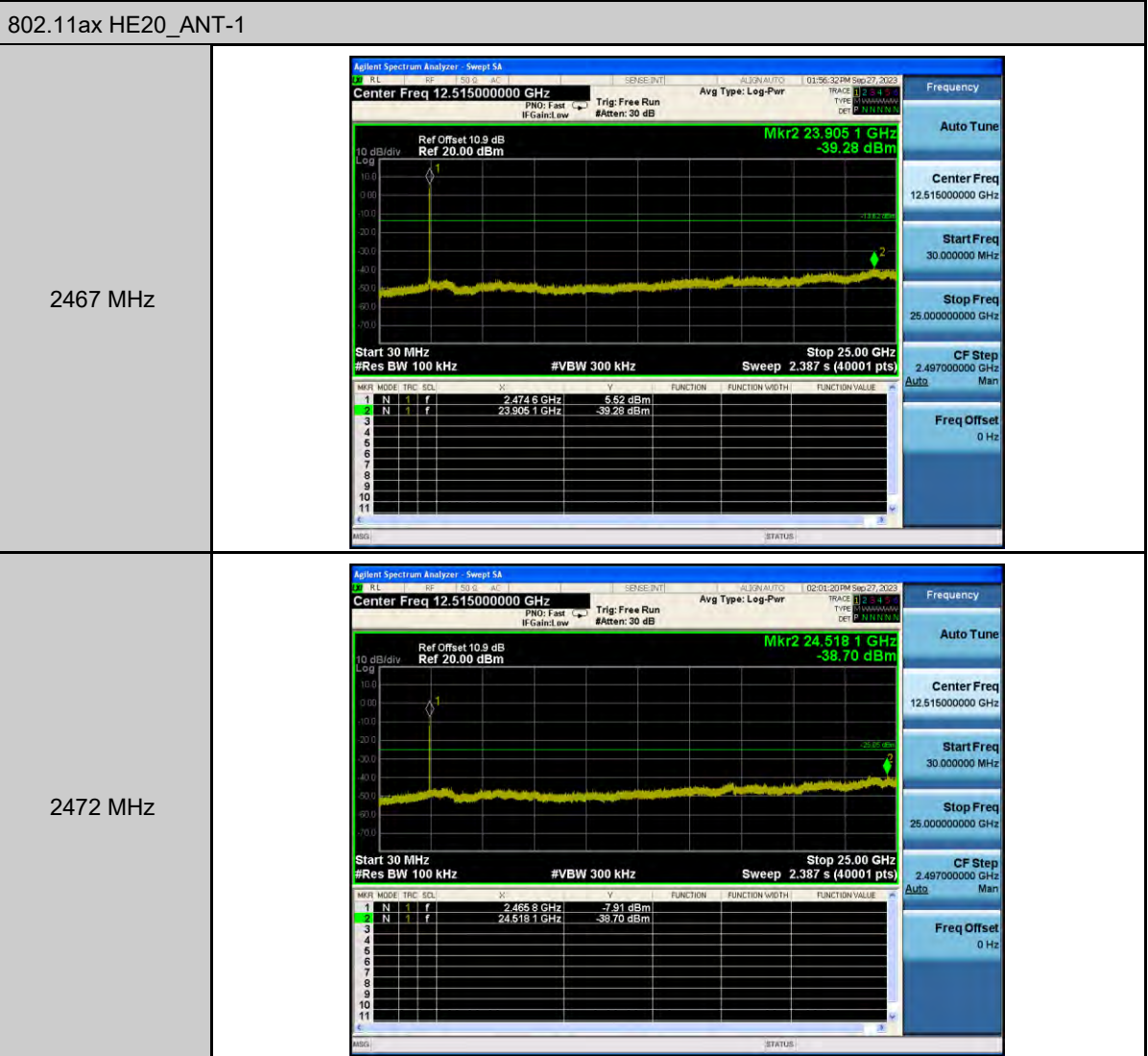






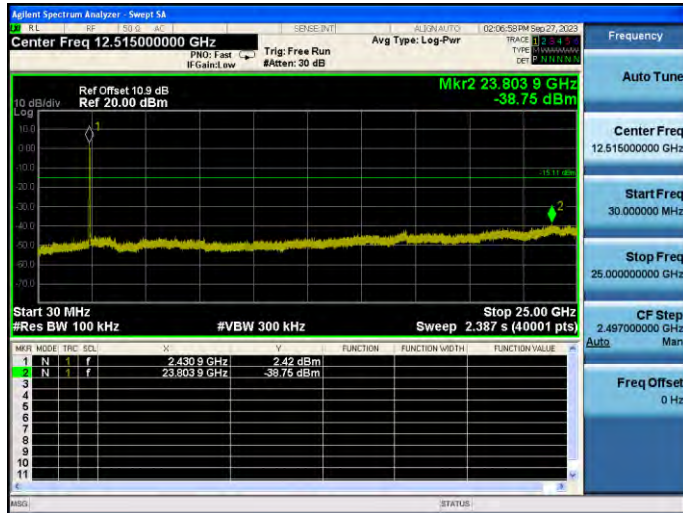




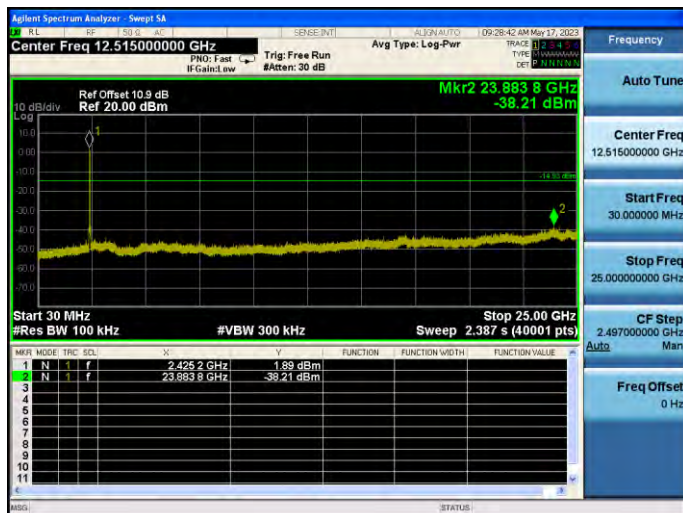


802.11ax HE40_ANT-1

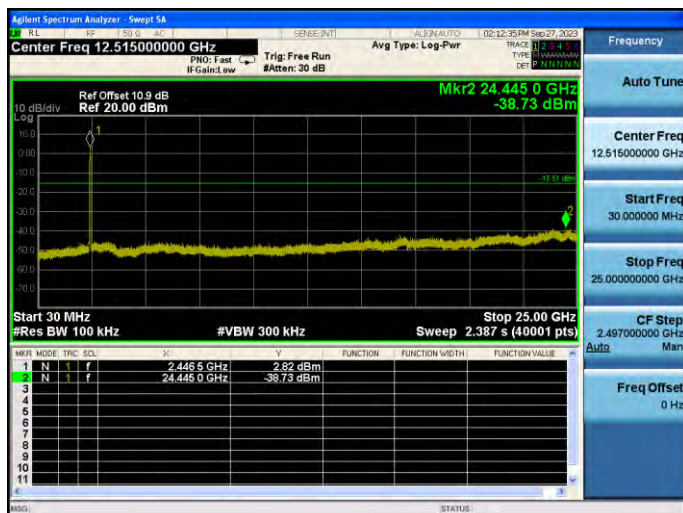
2422 MHz

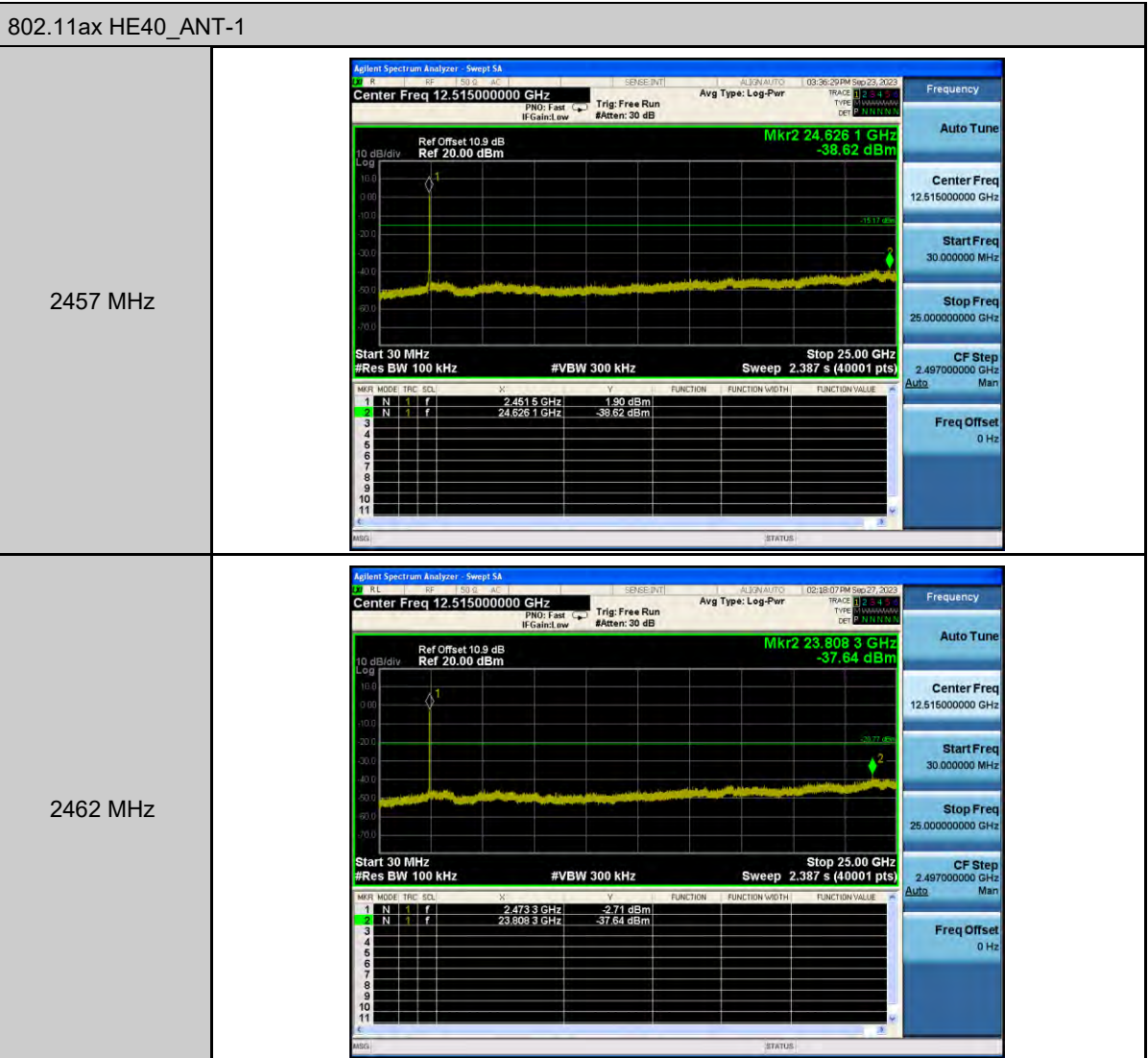


2437 MHz



2452 MHz





Reference level

802.11b_ANT-0

2412 MHz



2437 MHz



2462 MHz





802.11g_ANT-0	
2412 MHz	<p>Agilent Spectrum Analyzer - Swept SA Center Freq 2.41200000 GHz Ref Offset 10.9 dB Ref 20.00 dBm Mkr1 2.413 271 GHz 7.54 dBm Center 2.41200 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 2.333 ms (1001 pts)</p>
2437 MHz	<p>Agilent Spectrum Analyzer - Swept SA Center Freq 2.43700000 GHz Ref Offset 10.9 dB Ref 20.00 dBm Mkr1 2.429 507 GHz 9.98 dBm Center 2.43700 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 2.400 ms (1001 pts)</p>
2462 MHz	<p>Agilent Spectrum Analyzer - Swept SA Center Freq 2.46200000 GHz Ref Offset 10.9 dB Ref 20.00 dBm Mkr1 2.456 983 GHz 8.20 dBm Center 2.46200 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 2.333 ms (1001 pts)</p>



802.11ax HE20_ANT-0

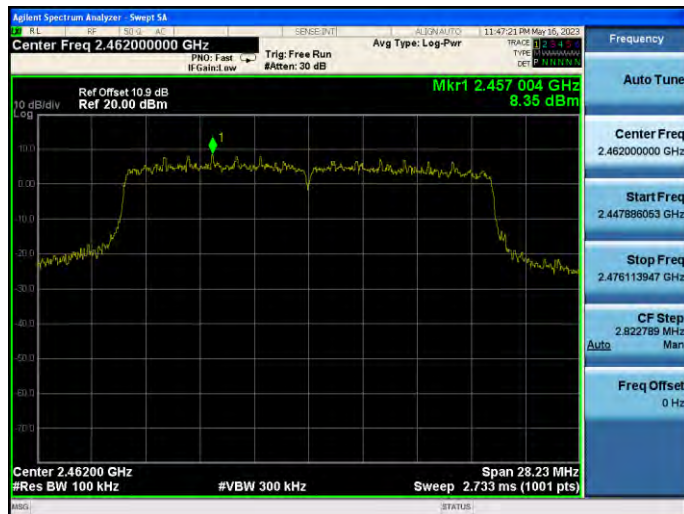
2412 MHz



2437 MHz

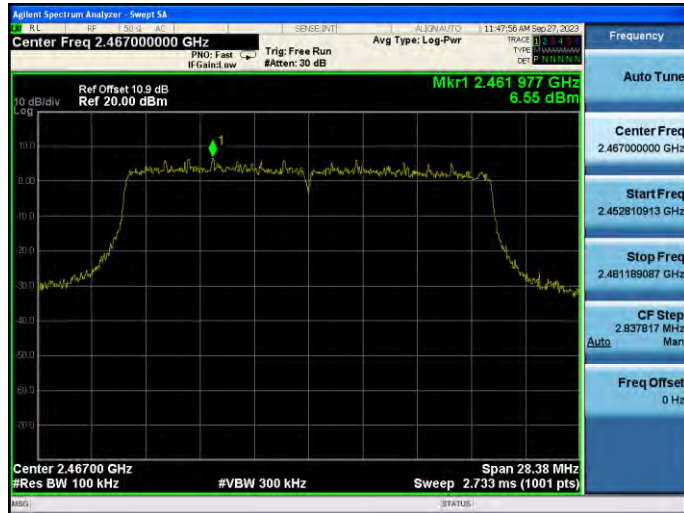


2462 MHz



802.11ax HE20_ANT-0

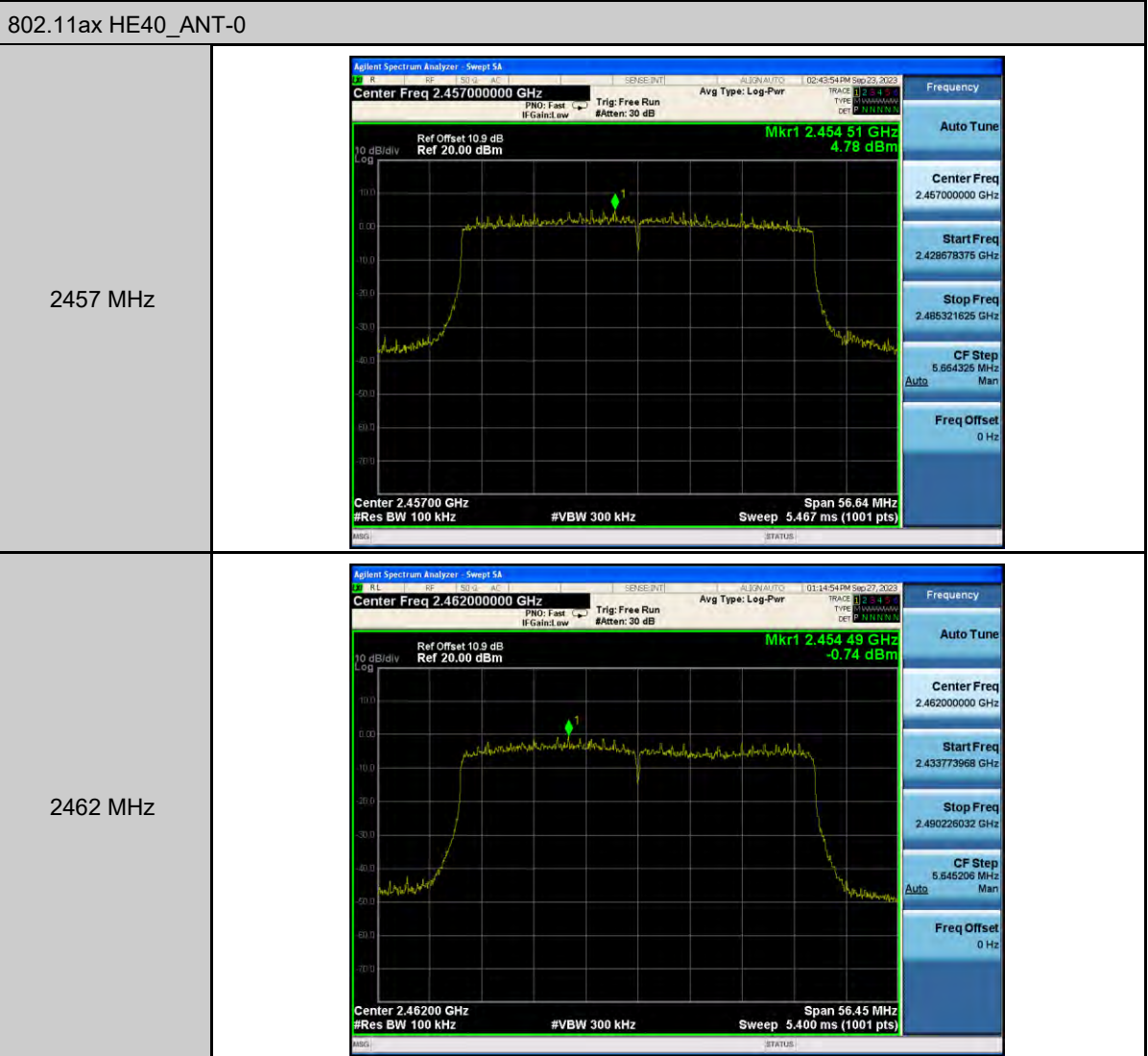
2467 MHz



2472 MHz



802.11ax HE40_ANT-0	
2422 MHz	<p>Agilent Spectrum Analyzer - Swept SA</p> <p>Center Freq 2.42200000 GHz</p> <p>Ref Offset 10.9 dB Ref 20.00 dBm</p> <p>Mkr1 2.419 50 GHz 5.40 dBm</p> <p>Center 2.42200 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 5.200 ms (1001 pts)</p> <p>Span 54.34 MHz</p> <p>Frequency</p> <ul style="list-style-type: none"> Auto Tune Center Freq 2.42200000 GHz Start Freq 2.394827634 GHz Stop Freq 2.449172366 GHz CF Step 5.434473 MHz Freq Offset 0 Hz
2437 MHz	<p>Agilent Spectrum Analyzer - Swept SA</p> <p>Center Freq 2.43700000 GHz</p> <p>Ref Offset 10.9 dB Ref 20.00 dBm</p> <p>Mkr1 2.420 74 GHz 7.84 dBm</p> <p>Center 2.43700 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 5.467 ms (1001 pts)</p> <p>Span 56.66 MHz</p> <p>Frequency</p> <ul style="list-style-type: none"> Auto Tune Center Freq 2.43700000 GHz Start Freq 2.408667791 GHz Stop Freq 2.465332209 GHz CF Step 5.656442 MHz Freq Offset 0 Hz
2452 MHz	<p>Agilent Spectrum Analyzer - Swept SA</p> <p>Center Freq 2.45200000 GHz</p> <p>Ref Offset 10.9 dB Ref 20.00 dBm</p> <p>Mkr1 2.455 75 GHz 4.43 dBm</p> <p>Center 2.45200 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 5.467 ms (1001 pts)</p> <p>Span 56.89 MHz</p> <p>Frequency</p> <ul style="list-style-type: none"> Auto Tune Center Freq 2.45200000 GHz Start Freq 2.423554985 GHz Stop Freq 2.480445015 GHz CF Step 5.689003 MHz Freq Offset 0 Hz



802.11b_ANT-1	
2412 MHz	<p>Agilent Spectrum Analyzer - Swept SA Center Freq 2.41200000 GHz Ref Offset 10.9 dB Ref 20.00 dBm Mkr1 2.412 995 GHz 10.34 dBm Center 2.412000 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 1.200 ms (1001 pts) Span 12.14 MHz</p>
2437 MHz	<p>Agilent Spectrum Analyzer - Swept SA Center Freq 2.43700000 GHz Ref Offset 10.9 dB Ref 20.00 dBm Mkr1 2.436 479 GHz 8.27 dBm Center 2.437000 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 1.200 ms (1001 pts) Span 12.15 MHz</p>
2462 MHz	<p>Agilent Spectrum Analyzer - Swept SA Center Freq 2.46200000 GHz Ref Offset 10.9 dB Ref 20.00 dBm Mkr1 2.461 501 GHz 8.58 dBm Center 2.462000 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 1.200 ms (1001 pts) Span 12.16 MHz</p>



802.11g_ANT-1	
2412 MHz	<p>Agilent Spectrum Analyzer - Swept SA Center Freq 2.41200000 GHz Ref Offset 10.9 dB Ref 20.00 dBm Mkr1 2.416982 GHz 6.80 dBm Center 2.41200 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 2.333 ms (1001 pts) Span 23.95 MHz</p>
2437 MHz	<p>Agilent Spectrum Analyzer - Swept SA Center Freq 2.43700000 GHz Ref Offset 10.9 dB Ref 20.00 dBm Mkr1 2.429504 GHz 7.86 dBm Center 2.43700 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 2.400 ms (1001 pts) Span 24.58 MHz</p>
2462 MHz	<p>Agilent Spectrum Analyzer - Swept SA Center Freq 2.46200000 GHz Ref Offset 10.9 dB Ref 20.00 dBm Mkr1 2.455761 GHz 7.51 dBm Center 2.46200 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 2.333 ms (1001 pts) Span 24.18 MHz</p>



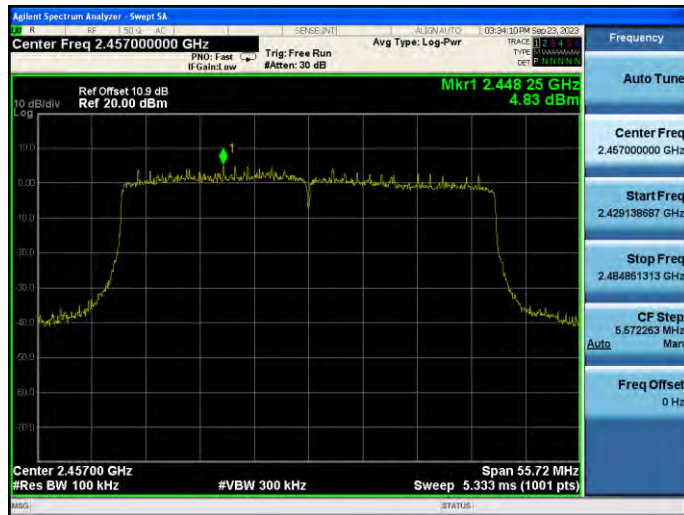
802.11ax HE20_ANT-1	
2412 MHz	<p>Agilent Spectrum Analyzer - Swept SA</p> <p>Center Freq 2.41200000 GHz</p> <p>Ref Offset 10.9 dB Ref 20.00 dBm</p> <p>Mkr1 2.416 999 GHz 6.90 dBm</p> <p>Center 2.41200 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 2.667 ms (1001 pts)</p> <p>Span 27.62 MHz</p> <p>Frequency</p> <ul style="list-style-type: none"> Auto Tune Center Freq 2.41200000 GHz Start Freq 2.398191300 GHz Stop Freq 2.425808700 GHz CF Step 2.751740 MHz Freq Offset 0 Hz
2437 MHz	<p>Agilent Spectrum Analyzer - Swept SA</p> <p>Center Freq 2.43700000 GHz</p> <p>Ref Offset 10.9 dB Ref 20.00 dBm</p> <p>Mkr1 2.439 485 GHz 7.62 dBm</p> <p>Center 2.43700 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 2.733 ms (1001 pts)</p> <p>Span 28.24 MHz</p> <p>Frequency</p> <ul style="list-style-type: none"> Auto Tune Center Freq 2.43700000 GHz Start Freq 2.422881414 GHz Stop Freq 2.451118586 GHz CF Step 2.823717 MHz Freq Offset 0 Hz
2462 MHz	<p>Agilent Spectrum Analyzer - Swept SA</p> <p>Center Freq 2.46200000 GHz</p> <p>Ref Offset 10.9 dB Ref 20.00 dBm</p> <p>Mkr1 2.456 985 GHz 7.60 dBm</p> <p>Center 2.46200 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 2.667 ms (1001 pts)</p> <p>Span 27.86 MHz</p> <p>Frequency</p> <ul style="list-style-type: none"> Auto Tune Center Freq 2.46200000 GHz Start Freq 2.448070239 GHz Stop Freq 2.475929761 GHz CF Step 2.795952 MHz Freq Offset 0 Hz



802.11ax HE40_ANT-1	
2422 MHz	<p>Agilent Spectrum Analyzer - Swept SA</p> <p>Center Freq 2.422000000 GHz</p> <p>Ref Offset 10.9 dB Ref 20.00 dBm</p> <p>Mkr1 2.416 98 GHz 4.89 dBm</p> <p>Center 2.42200 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 5.200 ms (1001 pts)</p> <p>Span 53.95 MHz</p> <p>Frequency: Auto Tune, Center Freq 2.422000000 GHz, Start Freq 2.395023082 GHz, Stop Freq 2.448976918 GHz, CF Step 5.395384 MHz, Freq Offset 0 Hz</p>
2437 MHz	<p>Agilent Spectrum Analyzer - Swept SA</p> <p>Center Freq 2.437000000 GHz</p> <p>Ref Offset 10.9 dB Ref 20.00 dBm</p> <p>Mkr1 2.430 75 GHz 5.07 dBm</p> <p>Center 2.43700 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 5.467 ms (1001 pts)</p> <p>Span 56.83 MHz</p> <p>Frequency: Auto Tune, Center Freq 2.437000000 GHz, Start Freq 2.408586564 GHz, Stop Freq 2.465413436 GHz, CF Step 5.682687 MHz, Freq Offset 0 Hz</p>
2452 MHz	<p>Agilent Spectrum Analyzer - Swept SA</p> <p>Center Freq 2.452000000 GHz</p> <p>Ref Offset 10.9 dB Ref 20.00 dBm</p> <p>Mkr1 2.449 48 GHz 4.49 dBm</p> <p>Center 2.45200 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 5.267 ms (1001 pts)</p> <p>Span 54.85 MHz</p> <p>Frequency: Auto Tune, Center Freq 2.452000000 GHz, Start Freq 2.424572989 GHz, Stop Freq 2.479427031 GHz, CF Step 5.485406 MHz, Freq Offset 0 Hz</p>

802.11ax HE40_ANT-1

2457 MHz



2462 MHz



Conducted Band Edge

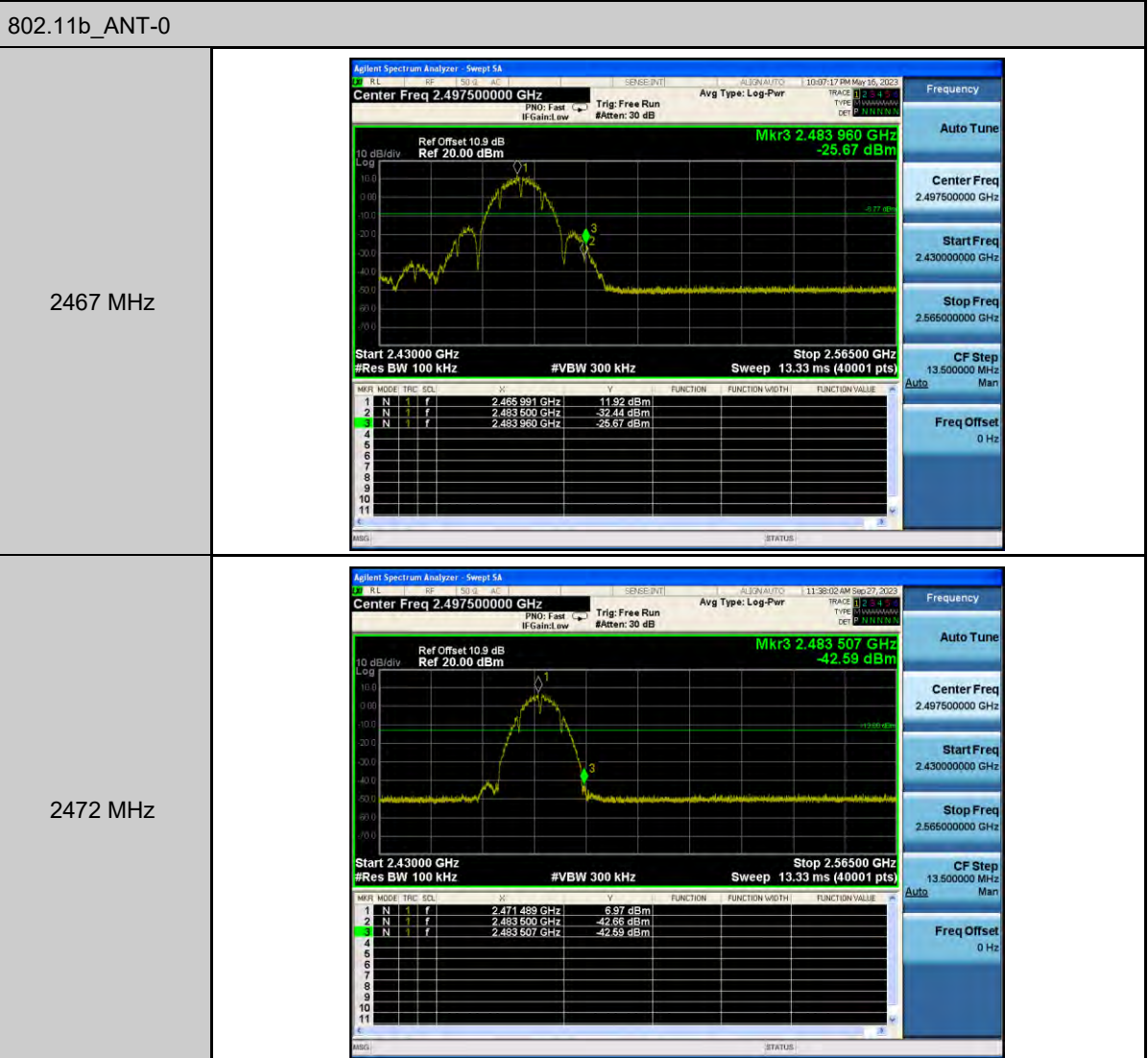
802.11b_ANT-0

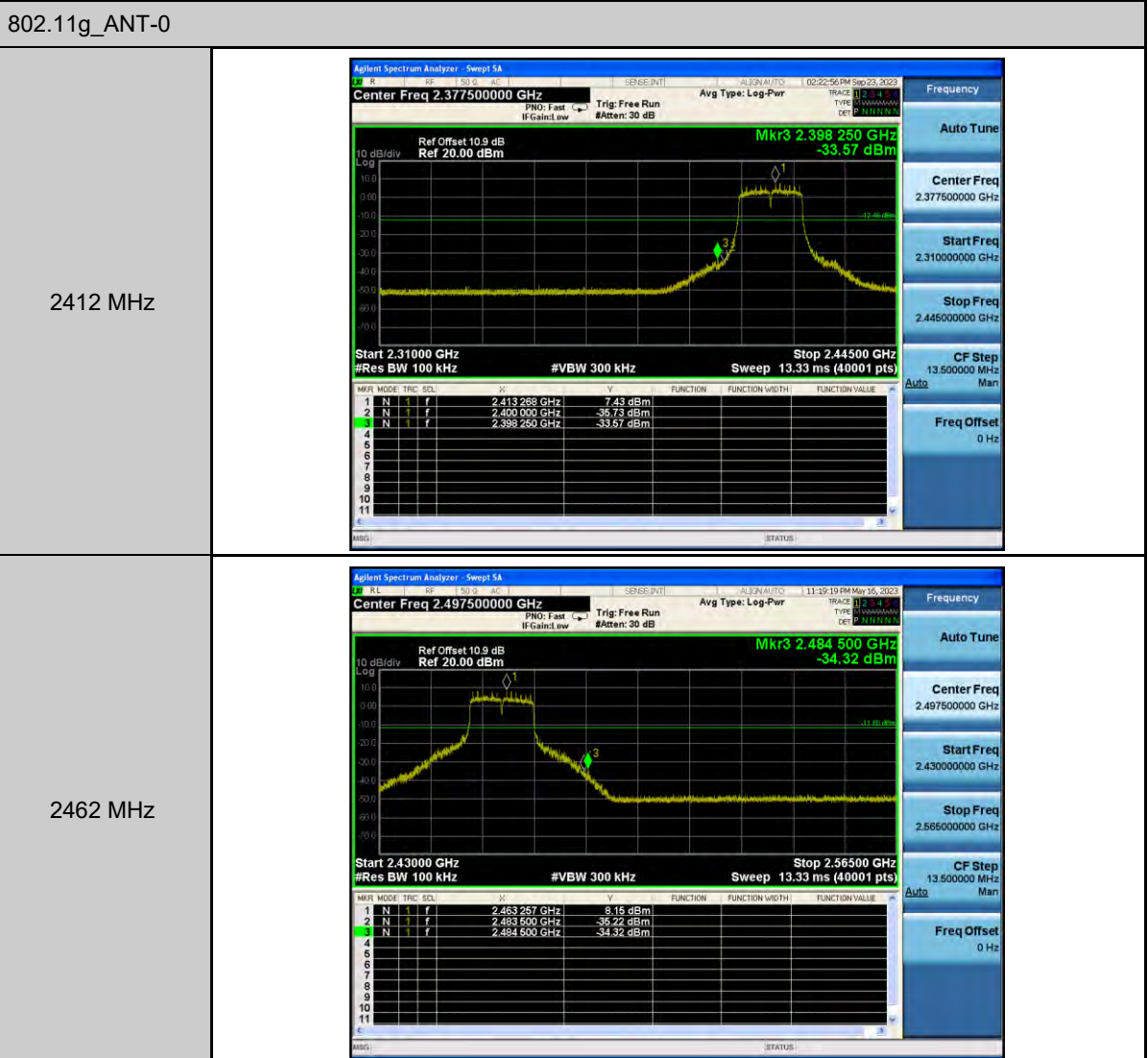
2412 MHz

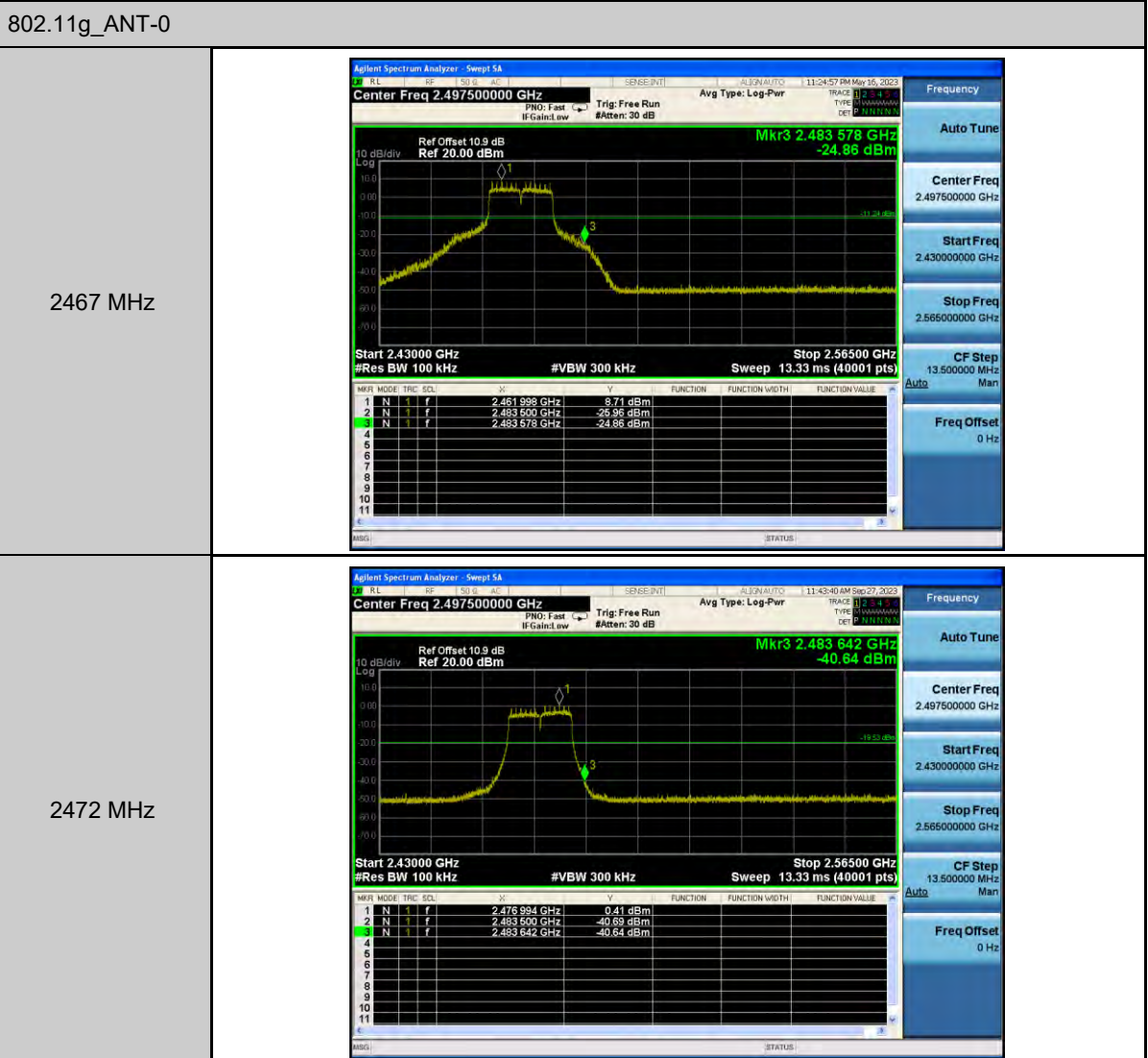


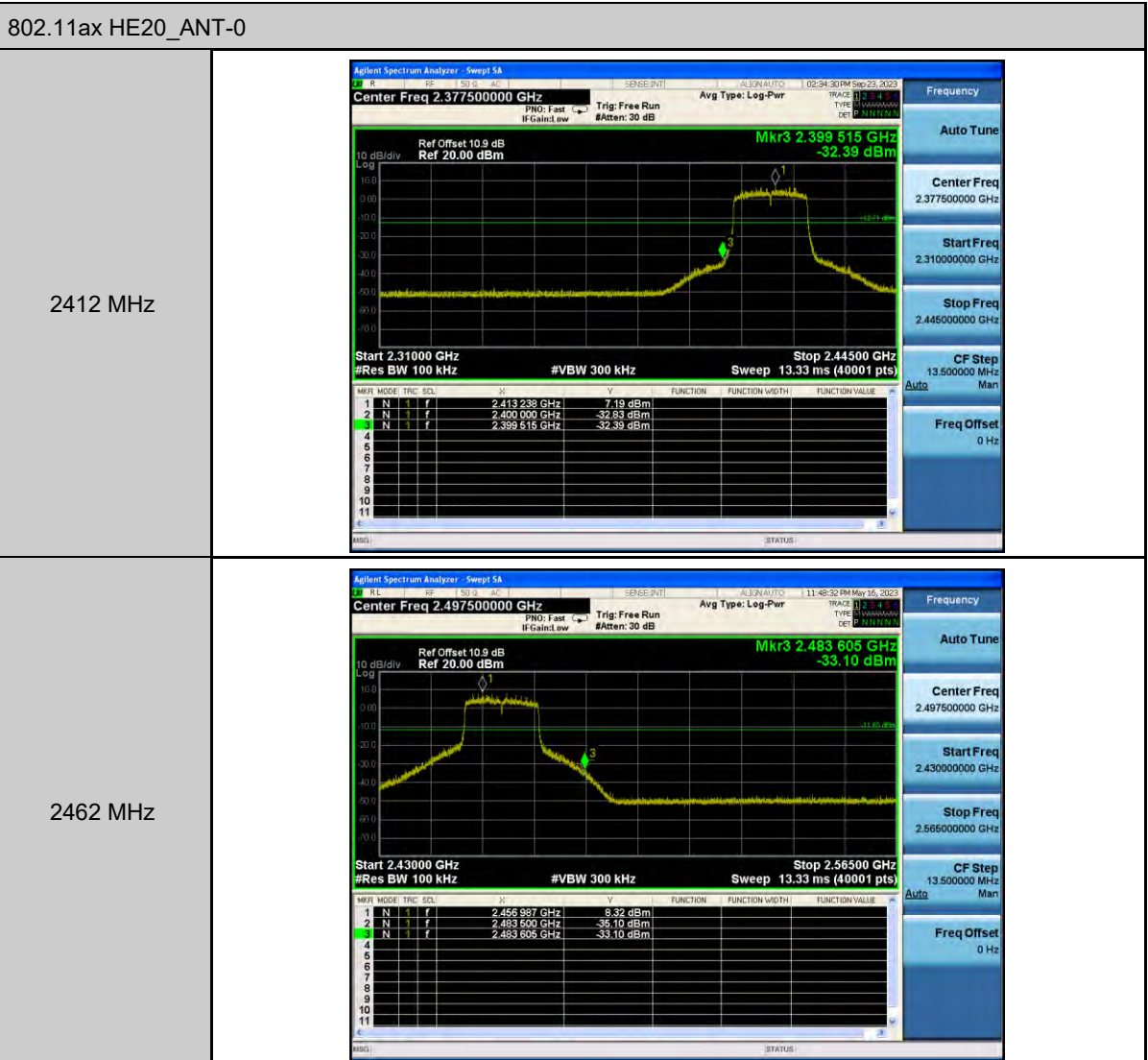
2462 MHz

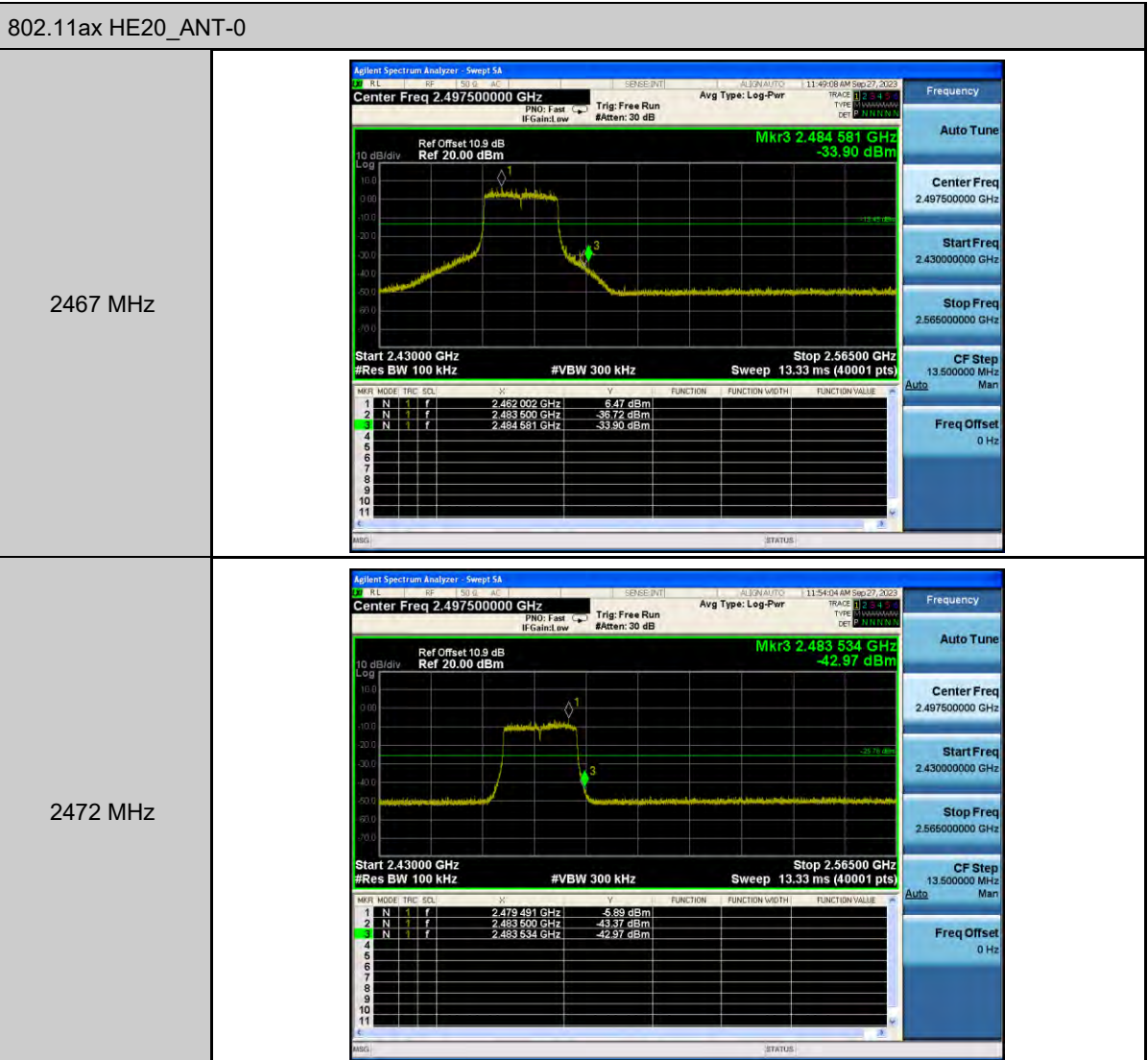


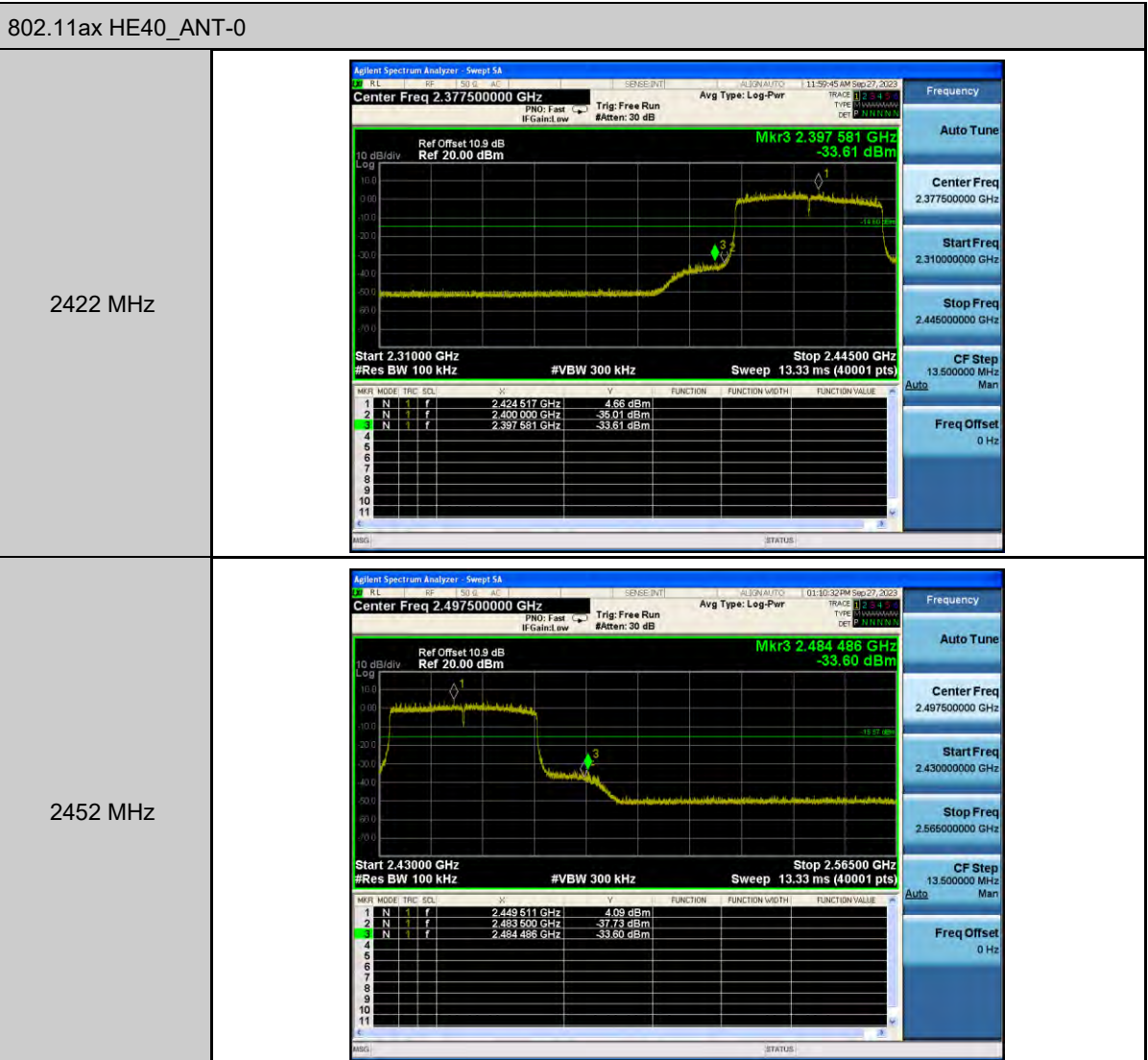


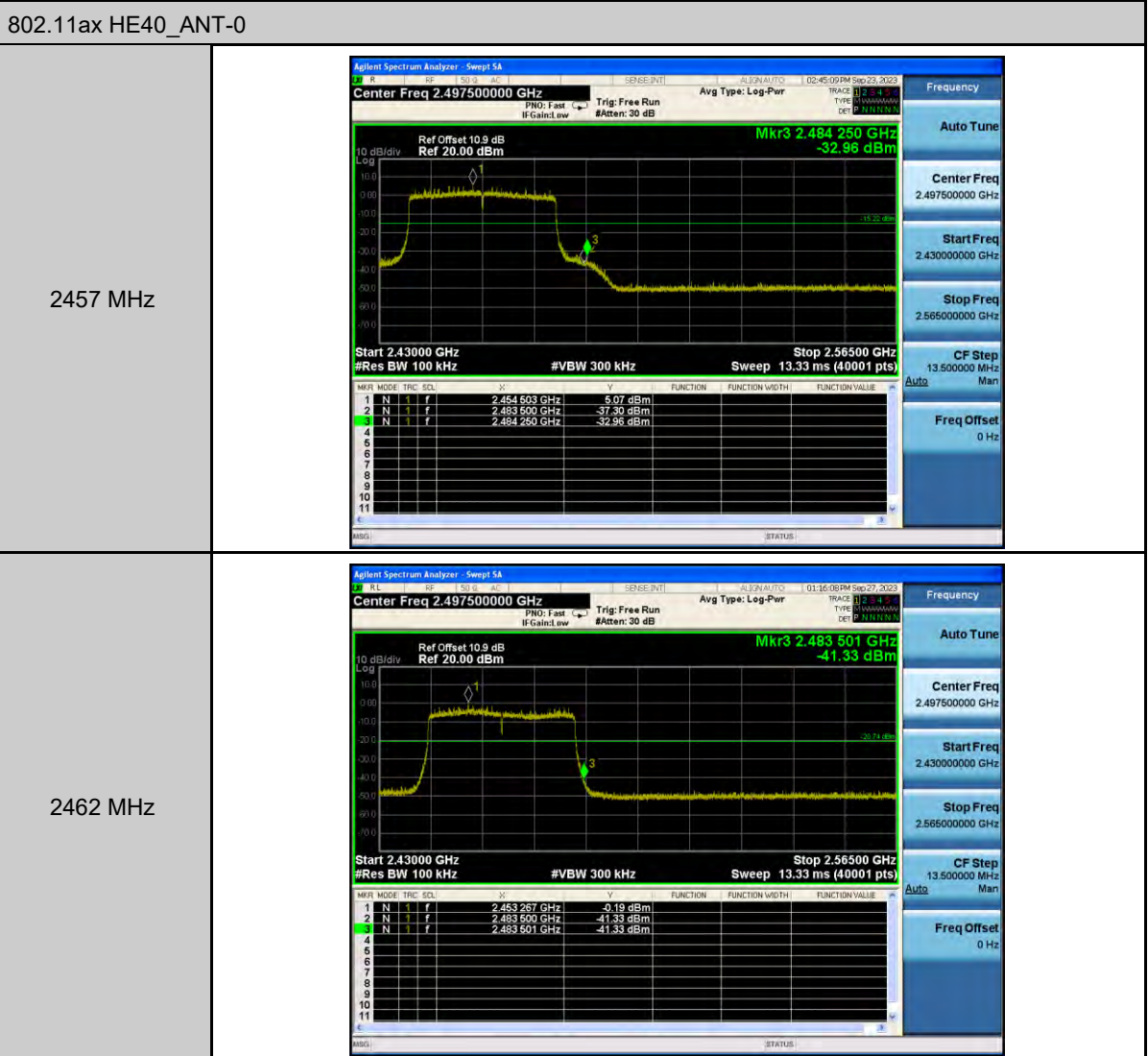


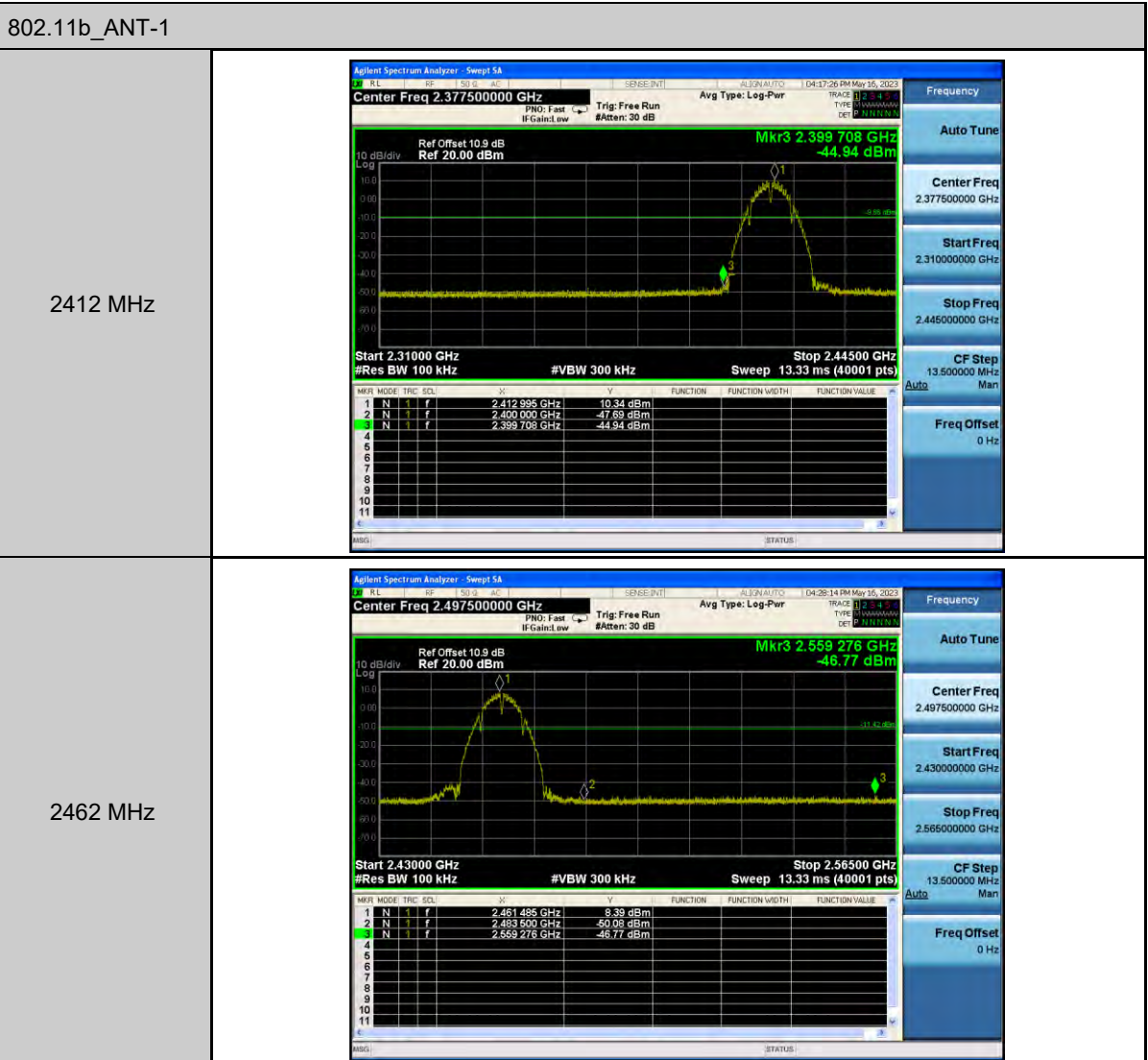


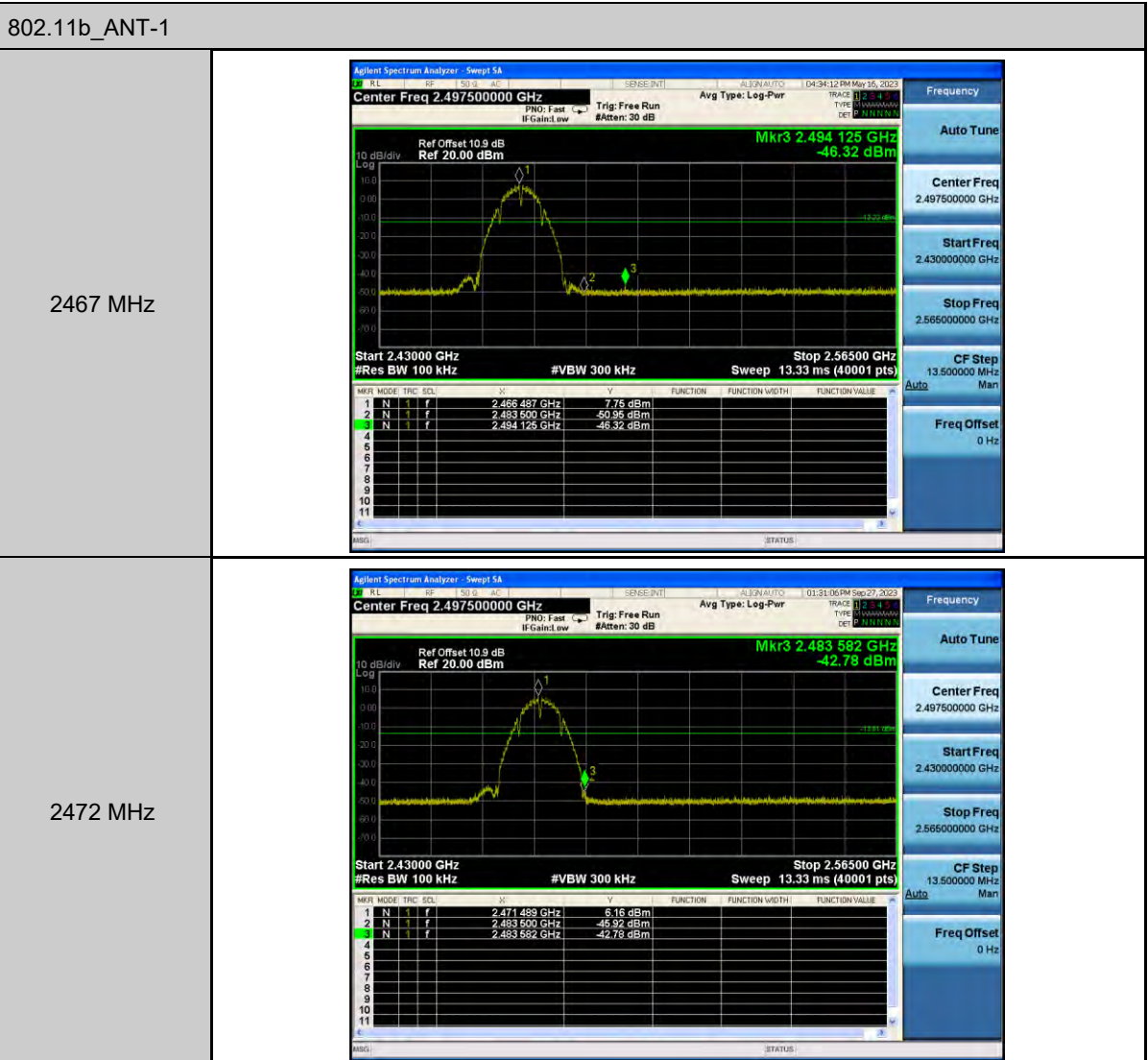


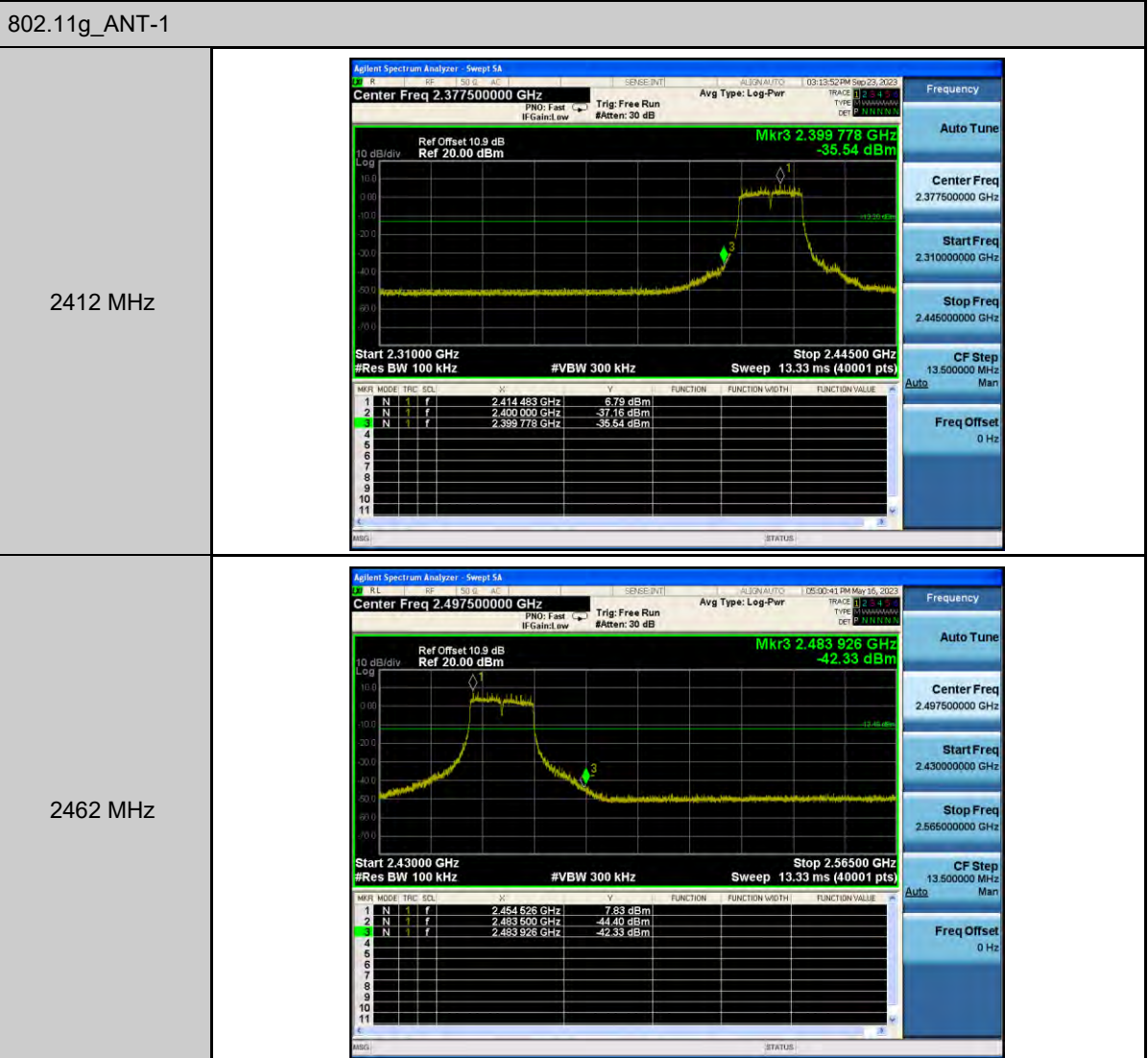




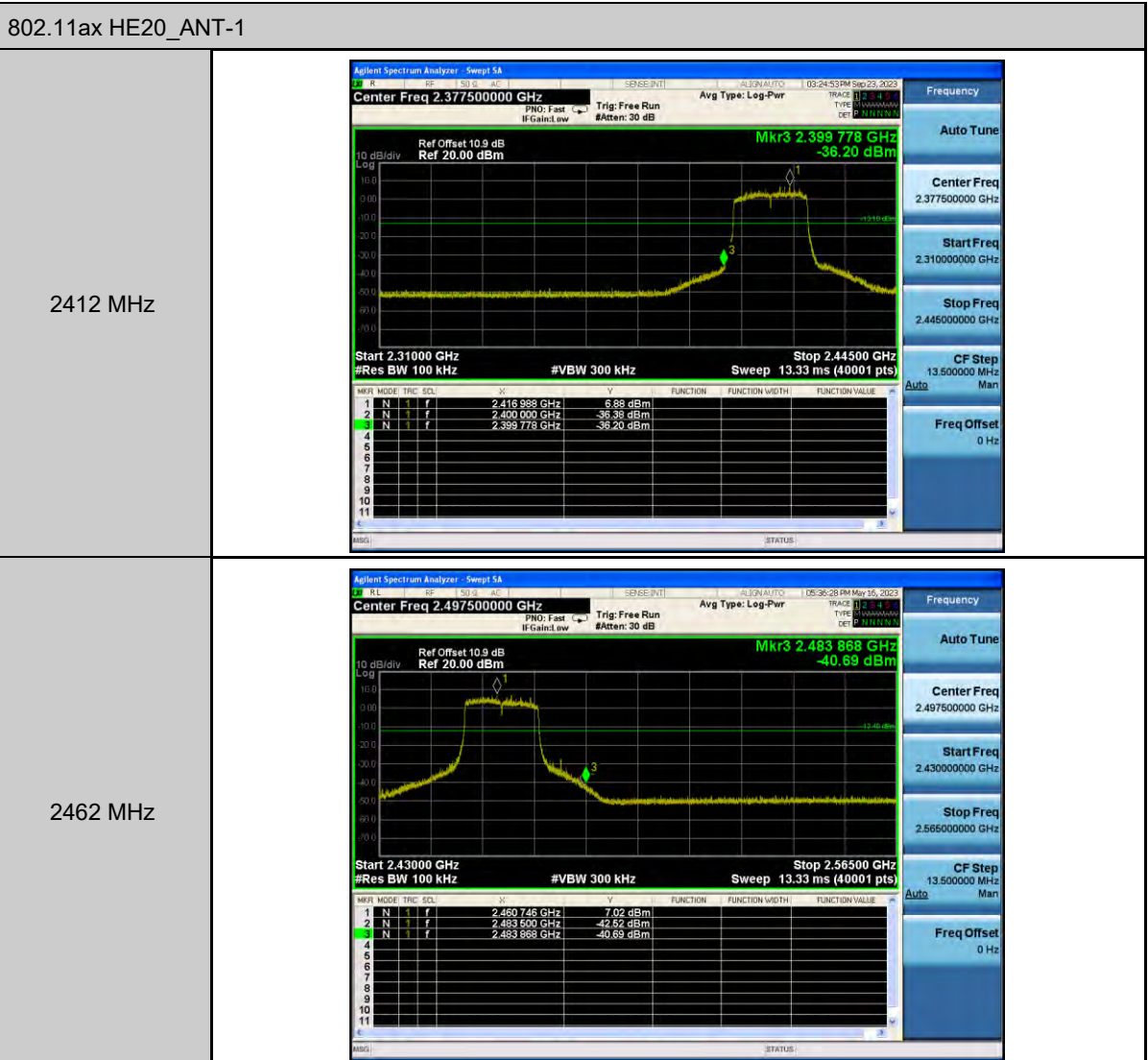


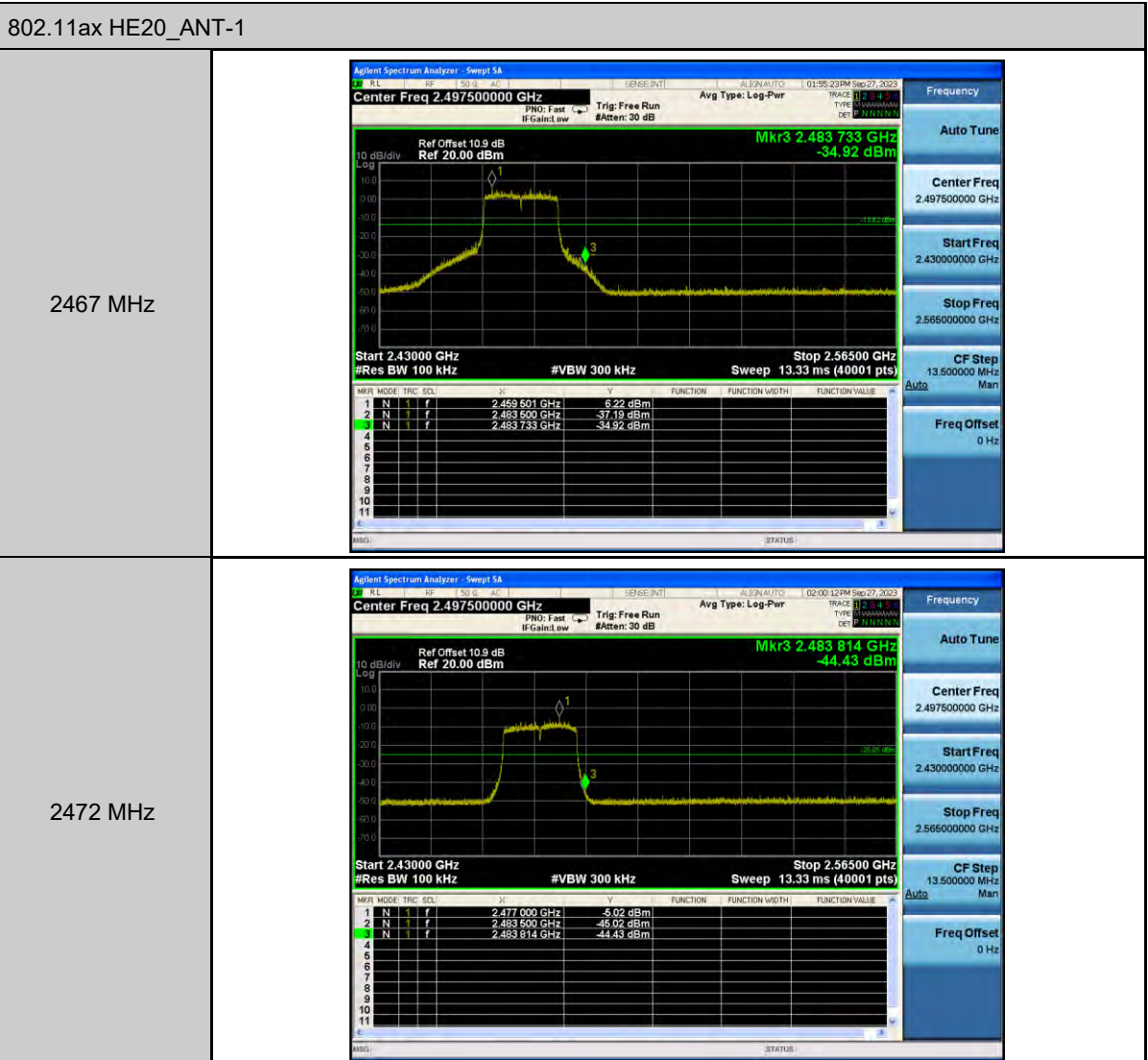


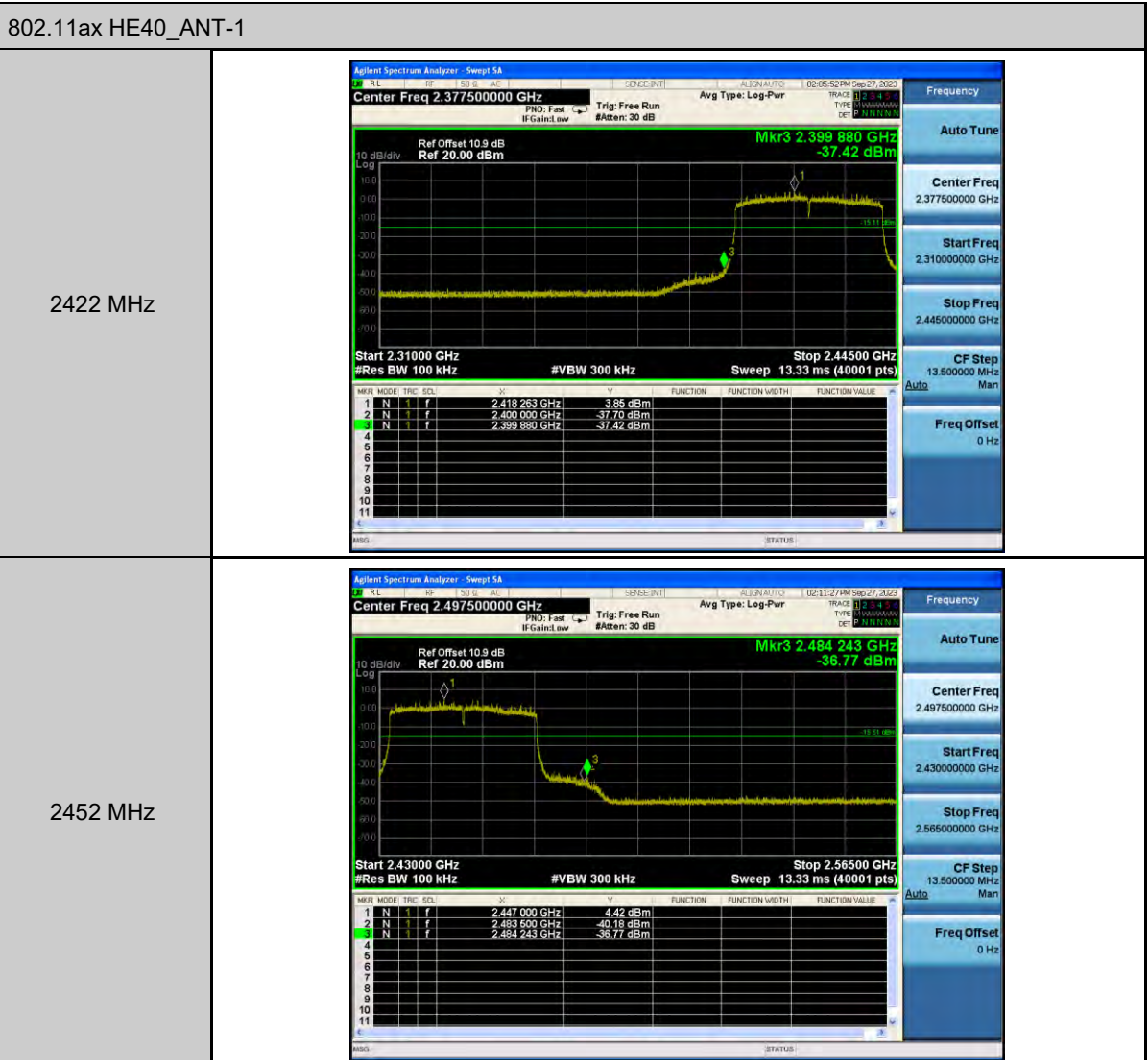












802.11ax HE40_ANT-1

2457 MHz



2462 MHz

