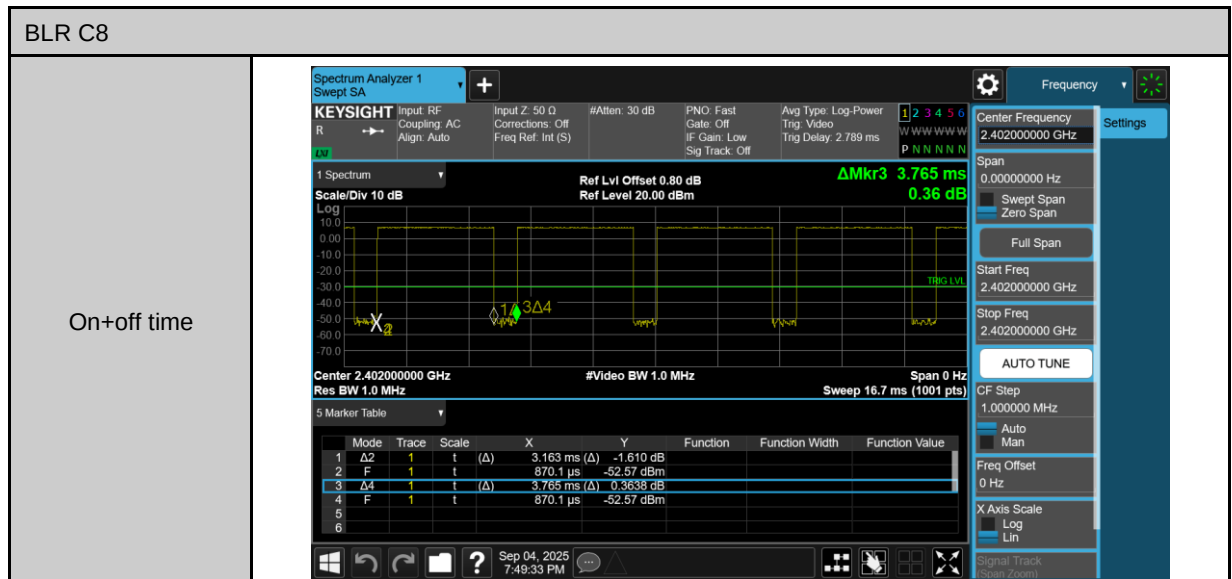
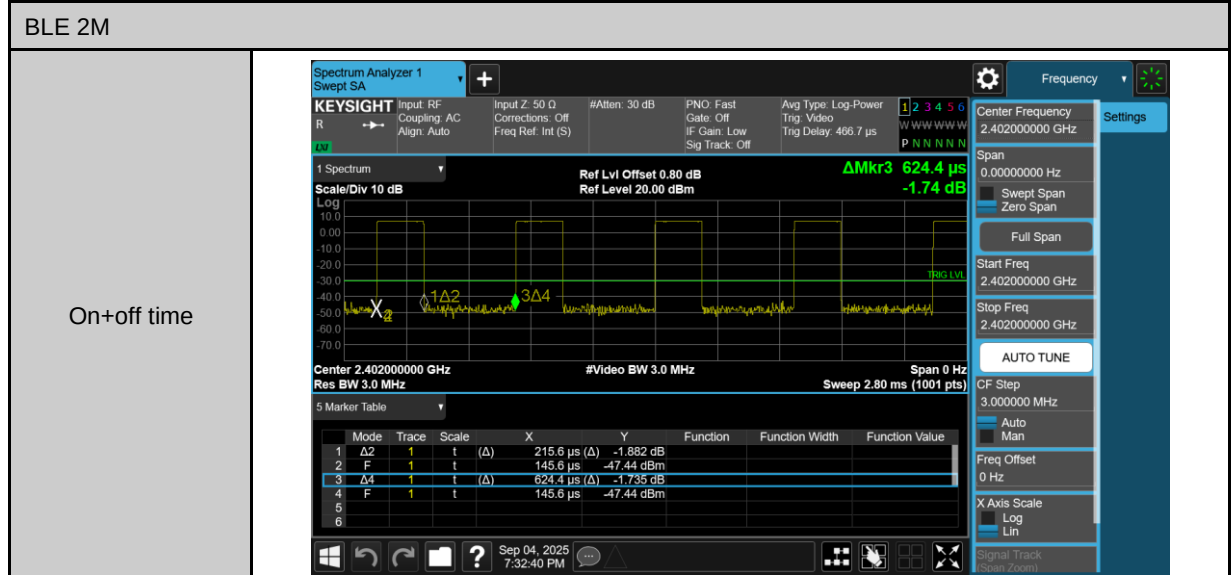
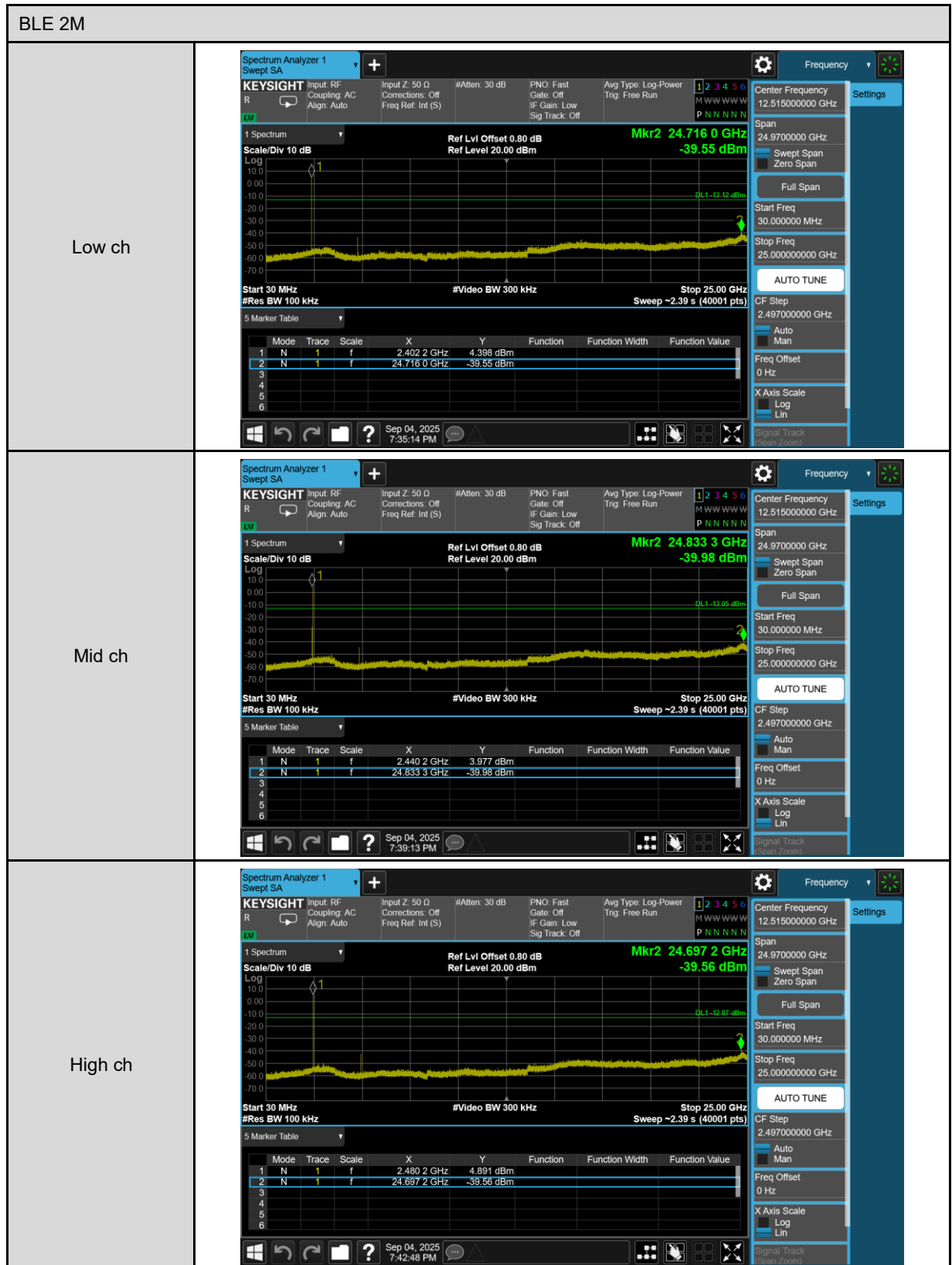


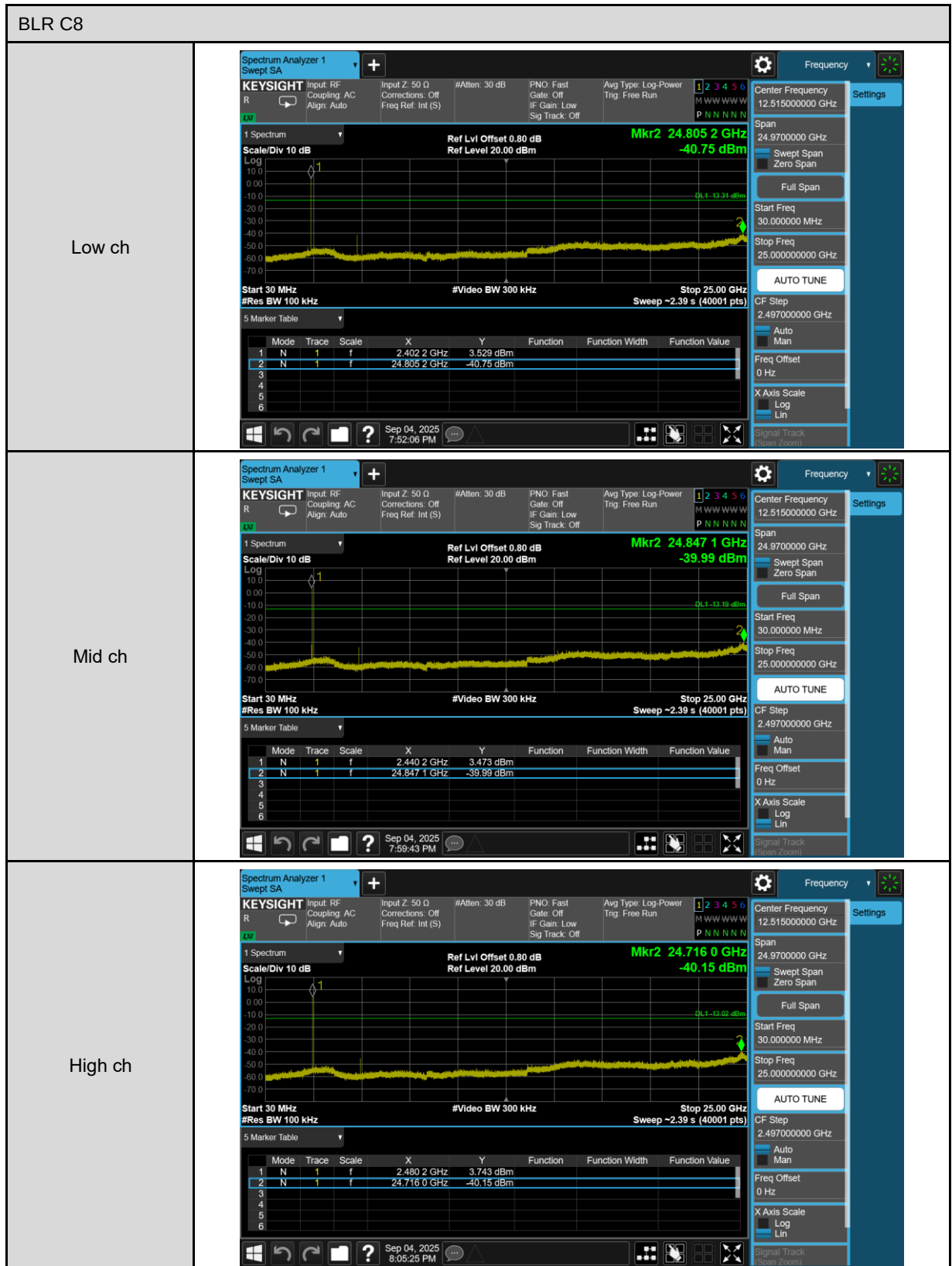
Appendix B. Test Plots

Duty cycle

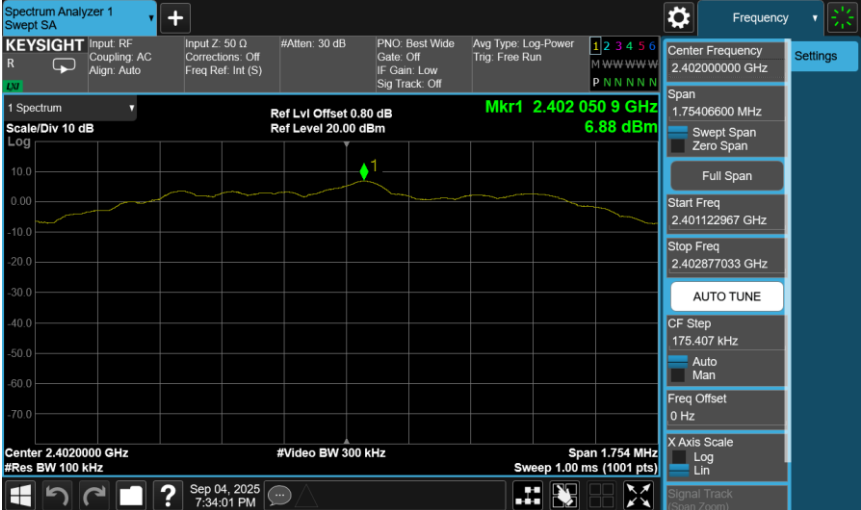
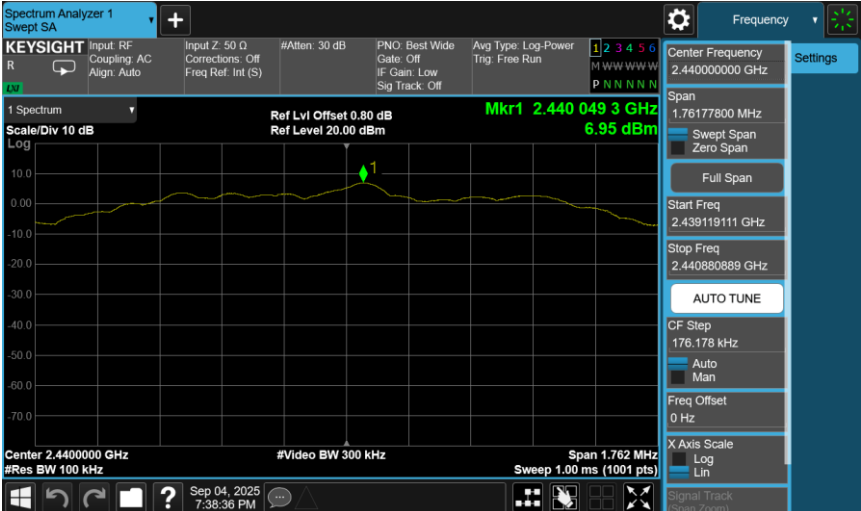


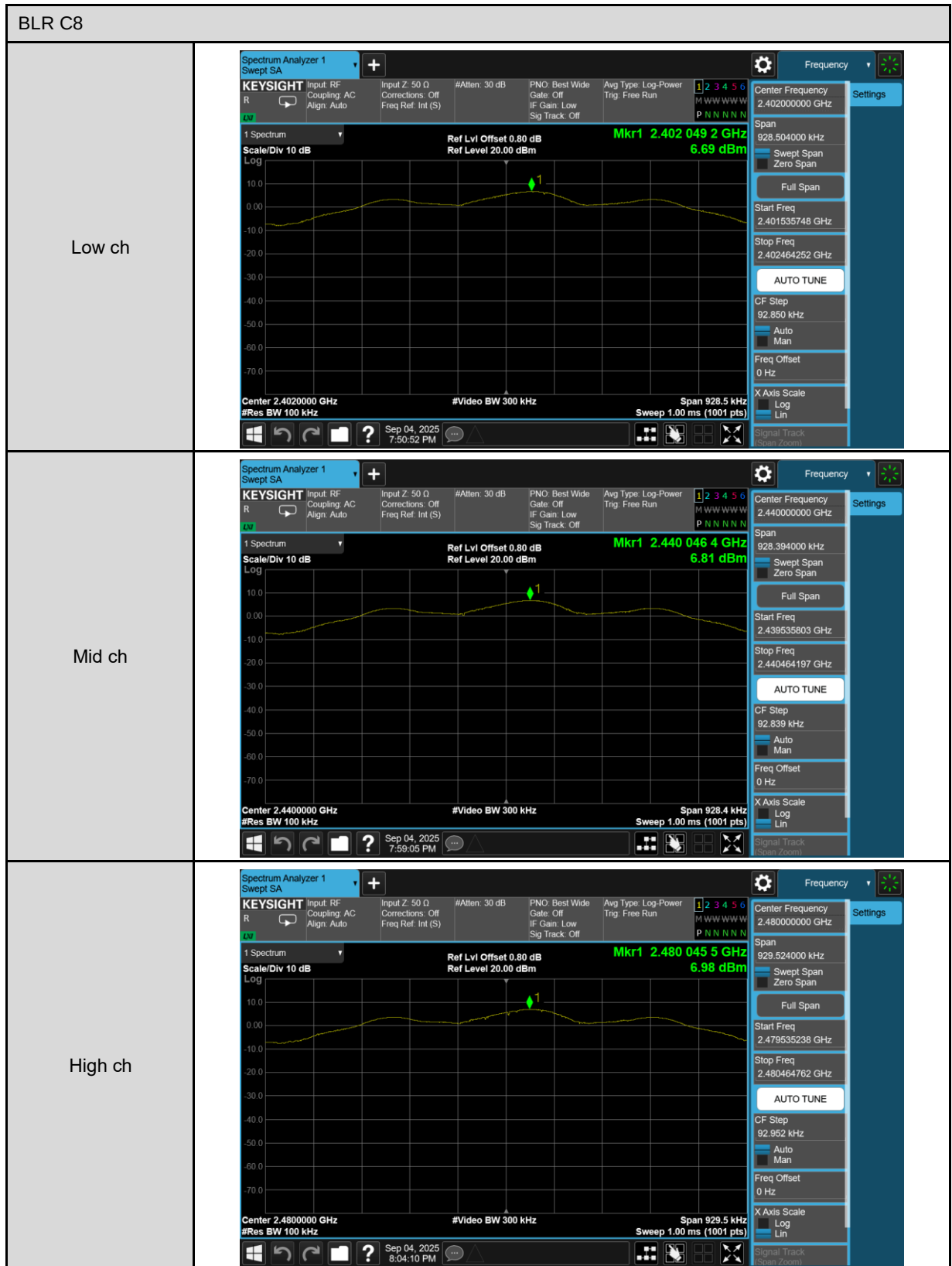
Out of Band Conducted Spurious Emission



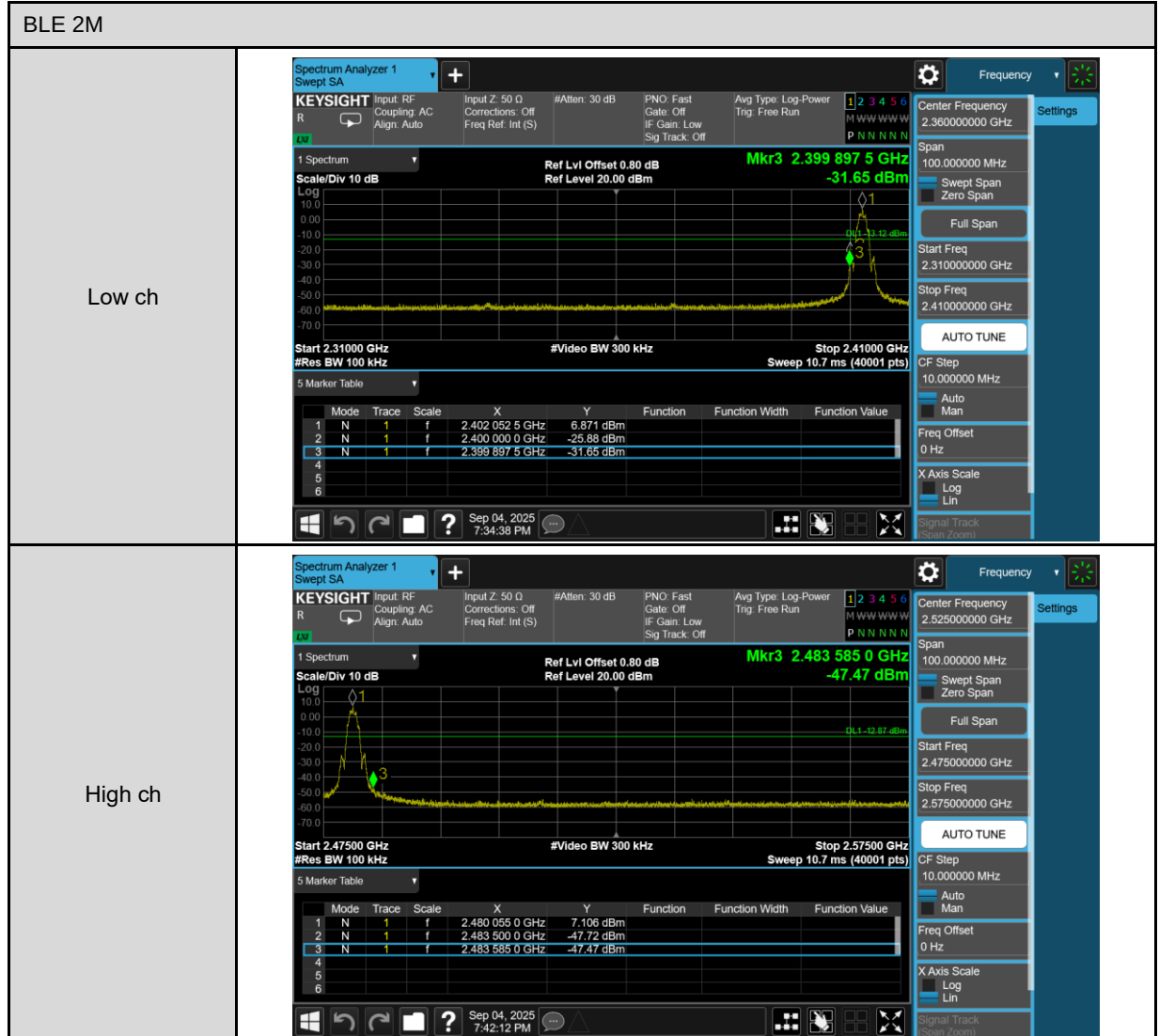


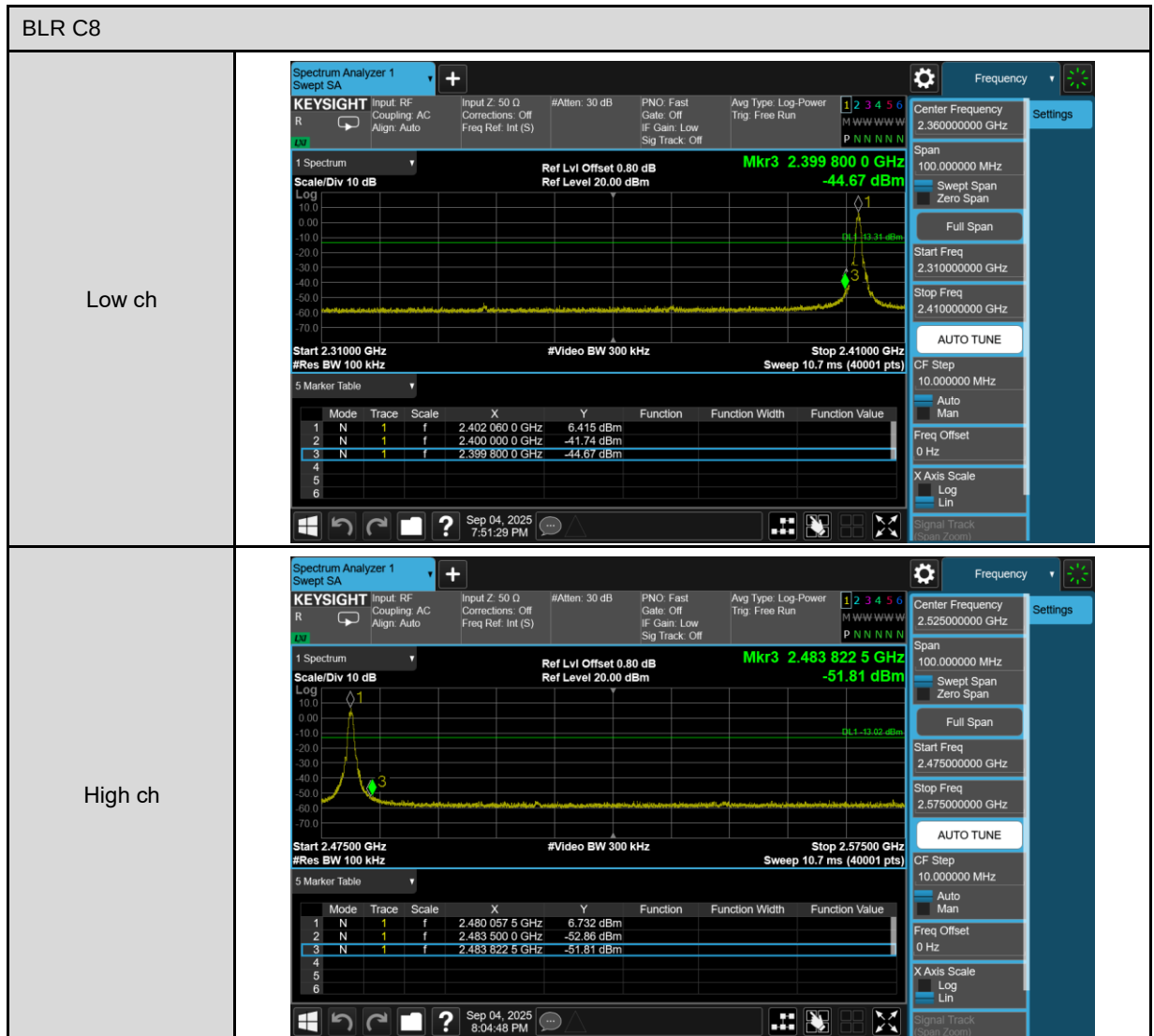
Reference level

BLE 2M Low ch	
Mid ch	
High ch	



Conducted Band Edge



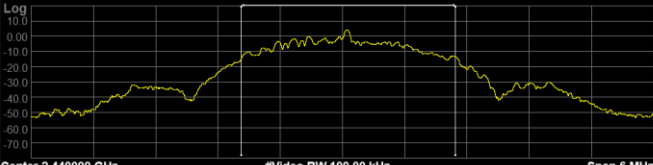
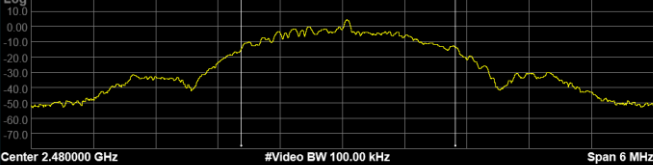


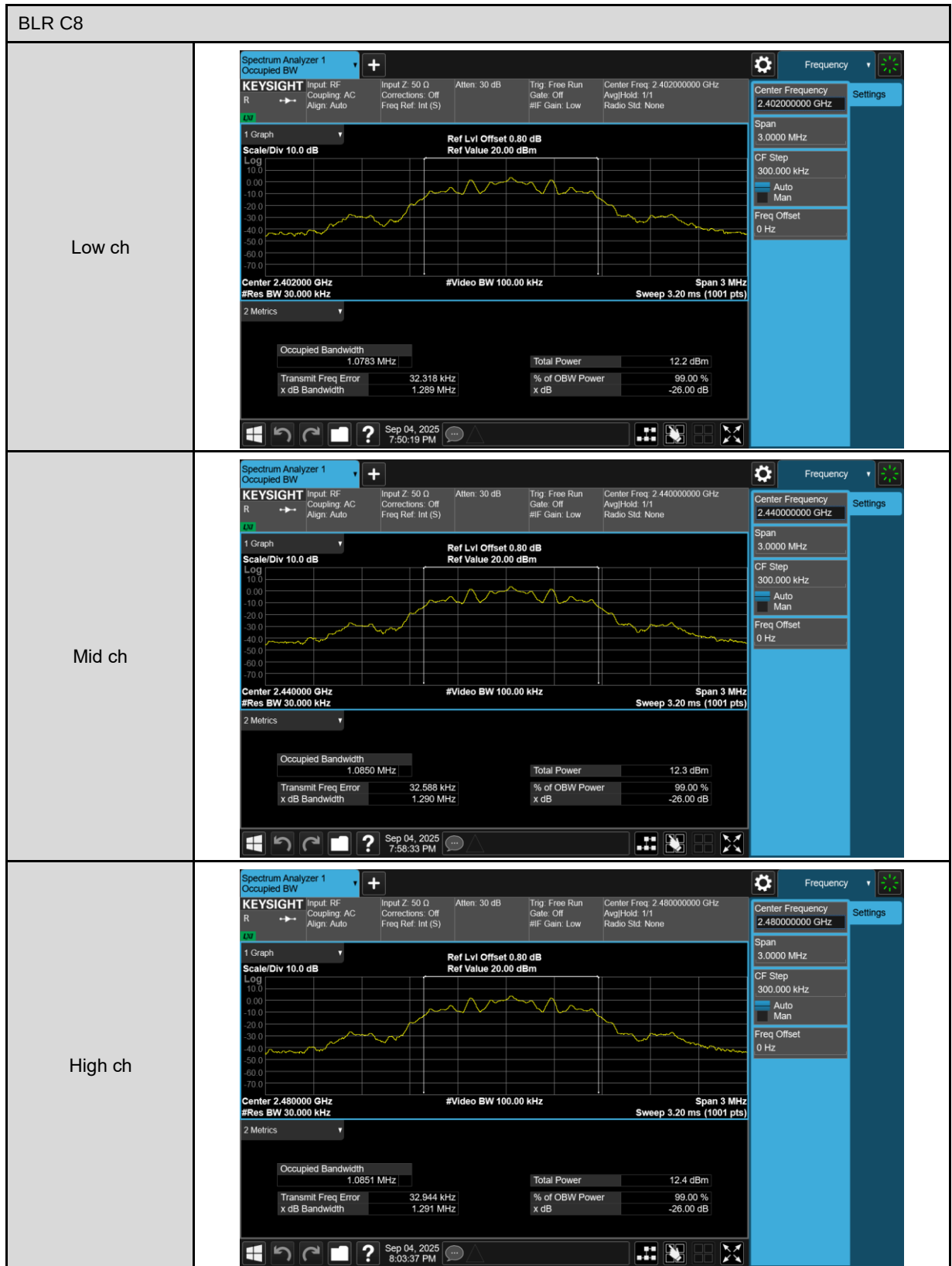
6 dB Bandwidth

BLE 2M	
Low ch	Spectrum Analyzer 1 Occupied BW KEYSIGHT Input: RF Coupling: AC Align: Auto Input Z: 50 Ω Corrections: Off Freq Ref: Int (S) Atten: 30 dB Trig: Free Run Gate: Off #F Gain: Low Center Freq: 2.40200000 GHz Avg/Hold: 1/1 Radio Std: None 1 Graph Scale/Div 10.0 dB Log Ref Lvl Offset 0.80 dB Ref Value 20.00 dBm Center 2.402000 GHz #Res BW 100.00 kHz #Video BW 300.00 kHz Span 6 MHz Sweep 1.00 ms (1001 pts) 2 Metrics Occupied Bandwidth 2.0789 MHz Total Power 14.3 dBm Transmit Freq Error 46.203 kHz % of OBW Power 99.00 % x dB Bandwidth 1.169 MHz x dB -6.00 dB Sep 04, 2025 7:33:04 PM Frequency Center Frequency 2.402000000 GHz Span 6.0000 MHz CF Step 600.000 kHz Auto Man Freq Offset 0 Hz
Mid ch	Spectrum Analyzer 1 Occupied BW KEYSIGHT Input: RF Coupling: AC Align: Auto Input Z: 50 Ω Corrections: Off Freq Ref: Int (S) Atten: 30 dB Trig: Free Run Gate: Off #F Gain: Low Center Freq: 2.44000000 GHz Avg/Hold: 1/1 Radio Std: None 1 Graph Scale/Div 10.0 dB Log Ref Lvl Offset 0.80 dB Ref Value 20.00 dBm Center 2.440000 GHz #Res BW 100.00 kHz #Video BW 300.00 kHz Span 6 MHz Sweep 1.00 ms (1001 pts) 2 Metrics Occupied Bandwidth 2.0831 MHz Total Power 14.3 dBm Transmit Freq Error 47.891 kHz % of OBW Power 99.00 % x dB Bandwidth 1.175 MHz x dB -6.00 dB Sep 04, 2025 7:37:39 PM Frequency Center Frequency 2.440000000 GHz Span 6.0000 MHz CF Step 600.000 kHz Auto Man Freq Offset 0 Hz
High ch	Spectrum Analyzer 1 Occupied BW KEYSIGHT Input: RF Coupling: AC Align: Auto Input Z: 50 Ω Corrections: Off Freq Ref: Int (S) Atten: 30 dB Trig: Free Run Gate: Off #F Gain: Low Center Freq: 2.48000000 GHz Avg/Hold: 1/1 Radio Std: None 1 Graph Scale/Div 10.0 dB Log Ref Lvl Offset 0.80 dB Ref Value 20.00 dBm Center 2.480000 GHz #Res BW 100.00 kHz #Video BW 300.00 kHz Span 6 MHz Sweep 1.00 ms (1001 pts) 2 Metrics Occupied Bandwidth 2.0838 MHz Total Power 14.5 dBm Transmit Freq Error 47.443 kHz % of OBW Power 99.00 % x dB Bandwidth 1.166 MHz x dB -6.00 dB Sep 04, 2025 7:40:37 PM Frequency Center Frequency 2.480000000 GHz Span 6.0000 MHz CF Step 600.000 kHz Auto Man Freq Offset 0 Hz

BLR C8	
Mid ch	
High ch	

99 % Occupied Bandwidth

BLE 2M	
Low ch	Spectrum Analyzer 1 Occupied BW KEYSIGHT Input: RF Coupling: AC Align: Auto Input Z: 50 Ω Corrections: Off Freq Ref: Int (S) Atten: 30 dB Trig: Free Run Gate: Off #F Gain: Low Center Freq: 2.402000000 GHz Avg/Hold: 1/1 Radio Sld: None 1 Graph Scale/Div 10.0 dB Log Ref Lvl Offset 0.80 dB Ref Value 20.00 dBm  Center 2.402000 GHz #Res BW 30.000 kHz #Video BW 100.00 kHz Span 6 MHz Sweep 6.33 ms (1001 pts) 2 Metrics Occupied Bandwidth 2.0509 MHz Total Power 13.5 dBm Transmit Freq Error 55.712 kHz % of OBW Power 99.00 % x dB Bandwidth 2.423 MHz x dB -26.00 dB Sep 04, 2025 7:33:28 PM Frequency Settings Center Frequency 2.402000000 GHz Span 6.0000 MHz CF Step 600.000 kHz Auto Man Freq Offset 0 Hz
Mid ch	Spectrum Analyzer 1 Occupied BW KEYSIGHT Input: RF Coupling: AC Align: Auto Input Z: 50 Ω Corrections: Off Freq Ref: Int (S) Atten: 30 dB Trig: Free Run Gate: Off #F Gain: Low Center Freq: 2.440000000 GHz Avg/Hold: 1/1 Radio Sld: None 1 Graph Scale/Div 10.0 dB Log Ref Lvl Offset 0.80 dB Ref Value 20.00 dBm  Center 2.440000 GHz #Res BW 30.000 kHz #Video BW 100.00 kHz Span 6 MHz Sweep 6.33 ms (1001 pts) 2 Metrics Occupied Bandwidth 2.0544 MHz Total Power 13.6 dBm Transmit Freq Error 56.707 kHz % of OBW Power 99.00 % x dB Bandwidth 2.427 MHz x dB -26.00 dB Sep 04, 2025 7:38:03 PM Frequency Settings Center Frequency 2.440000000 GHz Span 6.0000 MHz CF Step 600.000 kHz Auto Man Freq Offset 0 Hz
High ch	Spectrum Analyzer 1 Occupied BW KEYSIGHT Input: RF Coupling: AC Align: Auto Input Z: 50 Ω Corrections: Off Freq Ref: Int (S) Atten: 30 dB Trig: Free Run Gate: Off #F Gain: Low Center Freq: 2.480000000 GHz Avg/Hold: 1/1 Radio Sld: None 1 Graph Scale/Div 10.0 dB Log Ref Lvl Offset 0.80 dB Ref Value 20.00 dBm  Center 2.480000 GHz #Res BW 30.000 kHz #Video BW 100.00 kHz Span 6 MHz Sweep 6.33 ms (1001 pts) 2 Metrics Occupied Bandwidth 2.0567 MHz Total Power 13.8 dBm Transmit Freq Error 57.257 kHz % of OBW Power 99.00 % x dB Bandwidth 2.422 MHz x dB -26.00 dB Sep 04, 2025 7:41:01 PM Frequency Settings Center Frequency 2.480000000 GHz Span 6.0000 MHz CF Step 600.000 kHz Auto Man Freq Offset 0 Hz



Power Density

