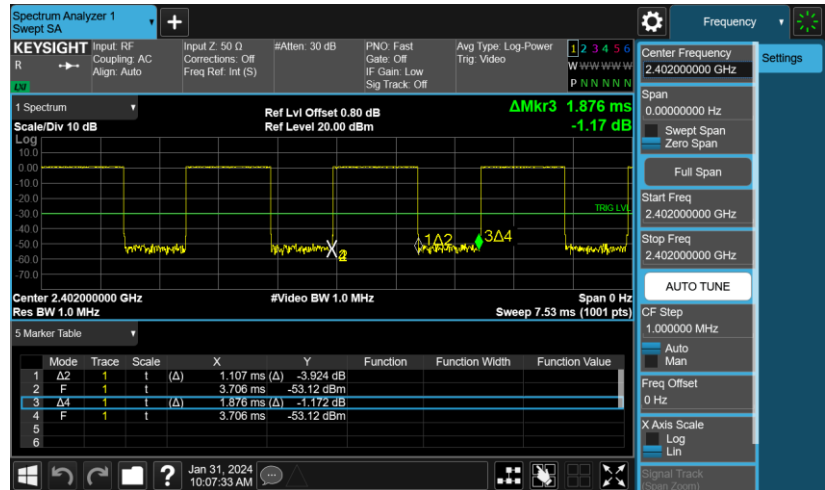


Appendix B. Test Plots

Duty cycle

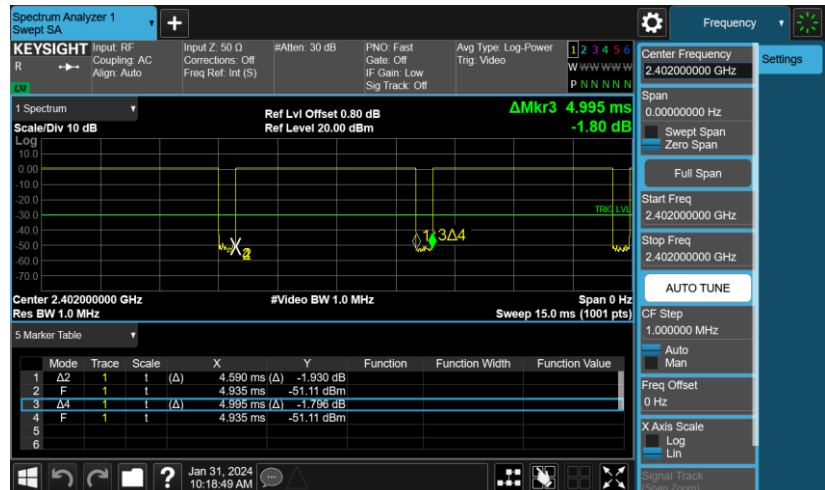
BLE 2M

On+off time



BLR C8

On+off time



Out of Band Conducted Spurious Emission

BLE 2M

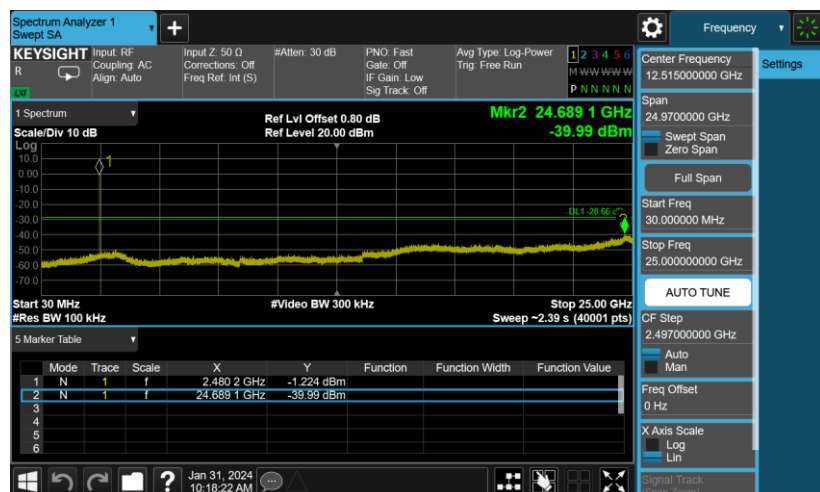
Low ch



Mid ch



High ch

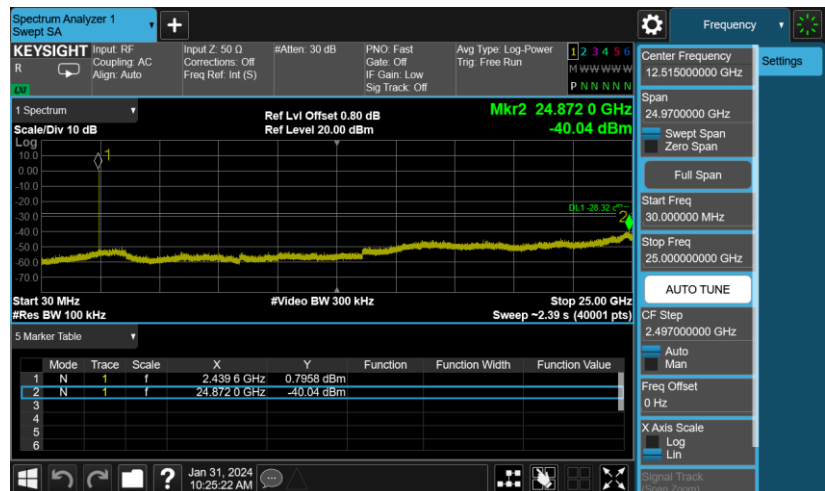


BLR C8

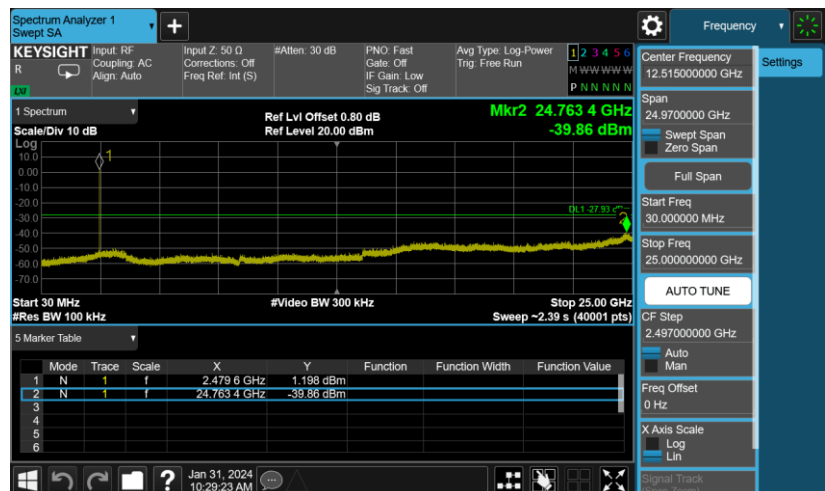
Low ch



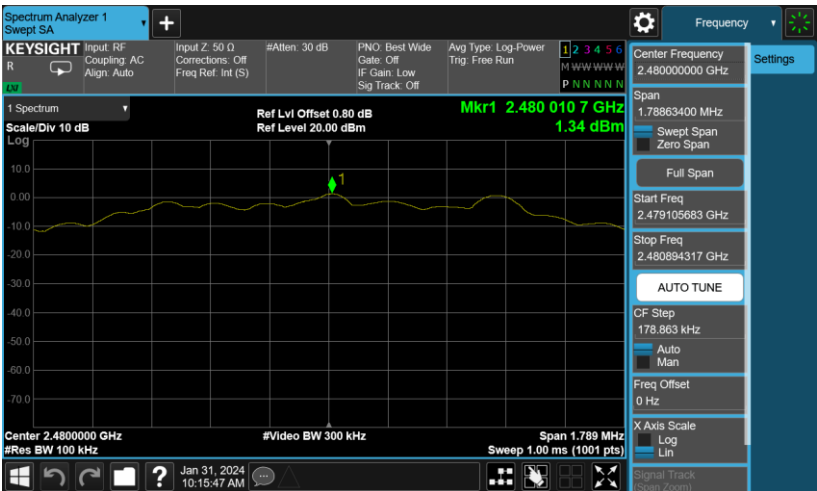
Mid ch



High ch

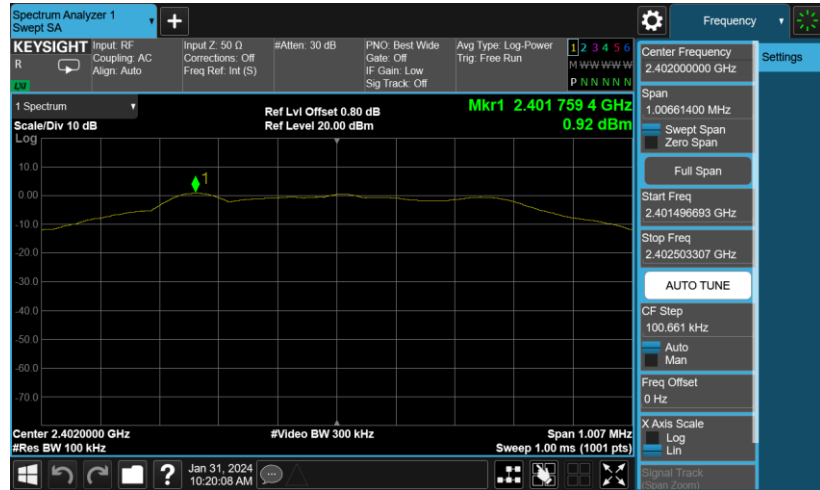


Reference level

BLE 2M Low ch	 Keysight Spectrum Analyzer 1 Sweep SA Input: RF, Coupling: AC, Align: Auto, Input Z: 50 Ω, Corrections: Off, Freq Ref: Int (S), #Atten: 30 dB, IPNO: Best Wide, Gate: Off, IF Gain: Low, Sig Track: Off, Avg Type: Log-Power, Trg: Free Run Center Frequency: 2.4020000 GHz, Span: 1.787 MHz, Mkr1: 2.402 010 7 GHz, 0.44 dBm Scale/Div 10 dB, Log, #Res BW 100 kHz, #Video BW 300 kHz, Sweep 1.00 ms (1001 pts)
Mid ch	 Keysight Spectrum Analyzer 1 Sweep SA Input: RF, Coupling: AC, Align: Auto, Input Z: 50 Ω, Corrections: Off, Freq Ref: Int (S), #Atten: 30 dB, IPNO: Best Wide, Gate: Off, IF Gain: Low, Sig Track: Off, Avg Type: Log-Power, Trg: Free Run Center Frequency: 2.4400000 GHz, Span: 1.790 MHz, Mkr1: 2.440 008 9 GHz, 1.22 dBm Scale/Div 10 dB, Log, #Res BW 100 kHz, #Video BW 300 kHz, Sweep 1.00 ms (1001 pts)
High ch	 Keysight Spectrum Analyzer 1 Sweep SA Input: RF, Coupling: AC, Align: Auto, Input Z: 50 Ω, Corrections: Off, Freq Ref: Int (S), #Atten: 30 dB, IPNO: Best Wide, Gate: Off, IF Gain: Low, Sig Track: Off, Avg Type: Log-Power, Trg: Free Run Center Frequency: 2.4800000 GHz, Span: 1.789 MHz, Mkr1: 2.480 010 7 GHz, 1.34 dBm Scale/Div 10 dB, Log, #Res BW 100 kHz, #Video BW 300 kHz, Sweep 1.00 ms (1001 pts)

BLR C8

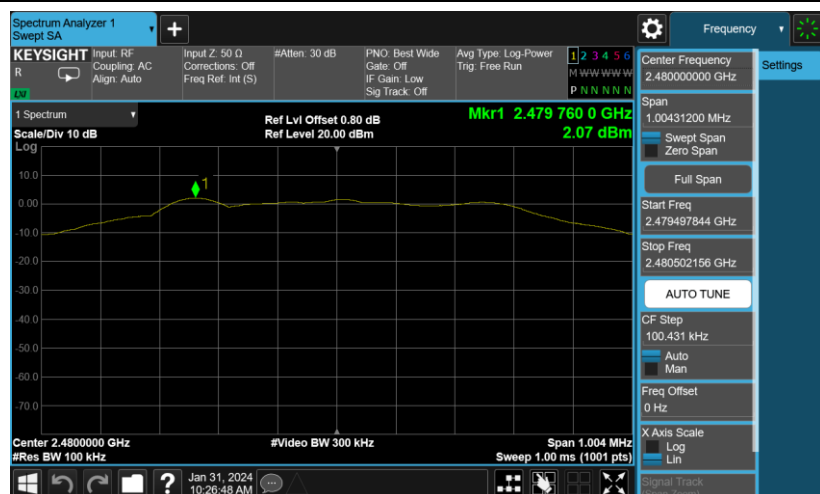
Low ch



Mid ch



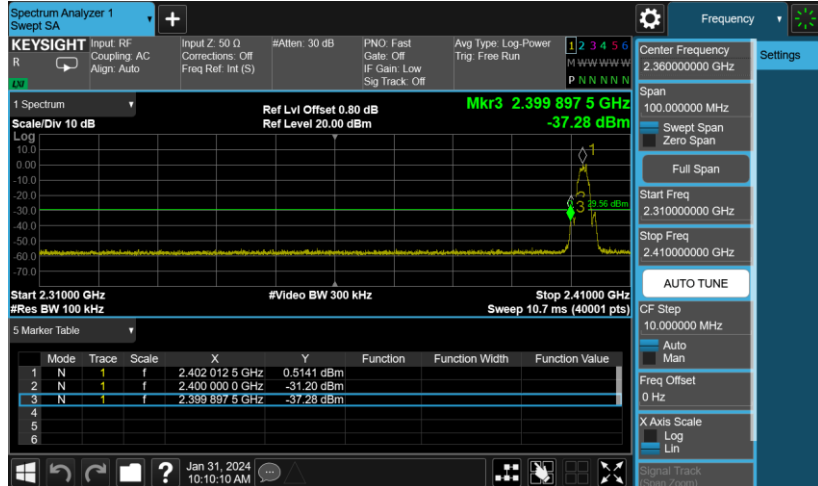
High ch



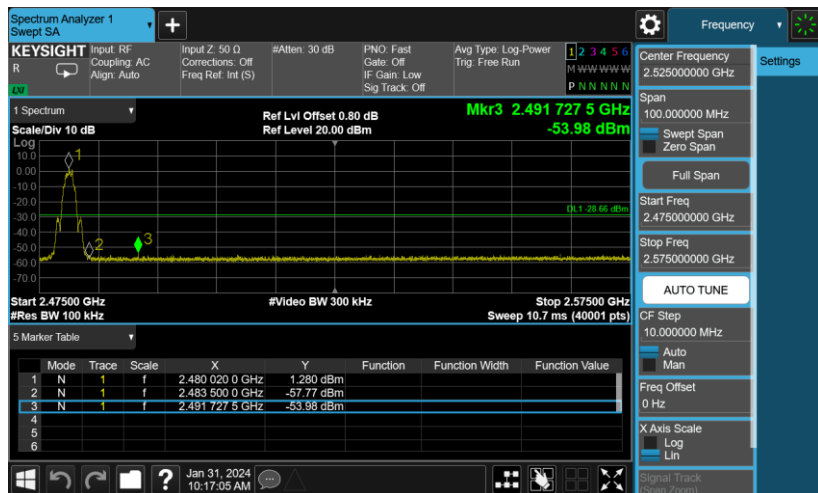
Conducted Band Edge

BLE 2M

Low ch

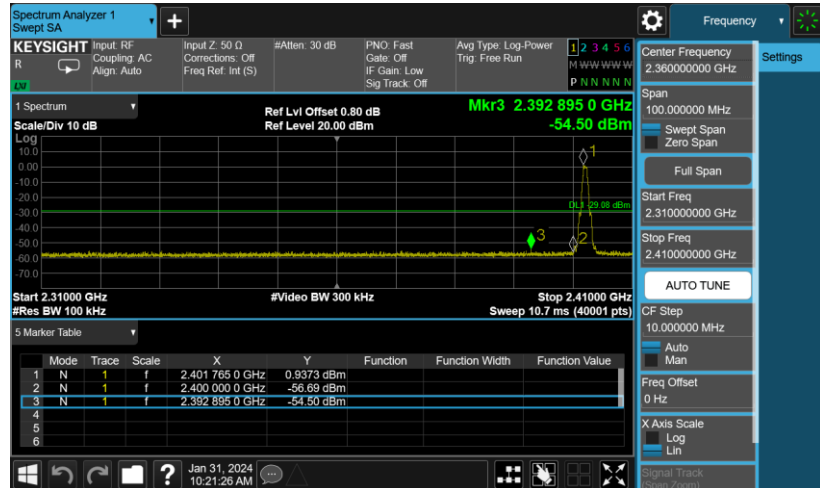


High ch

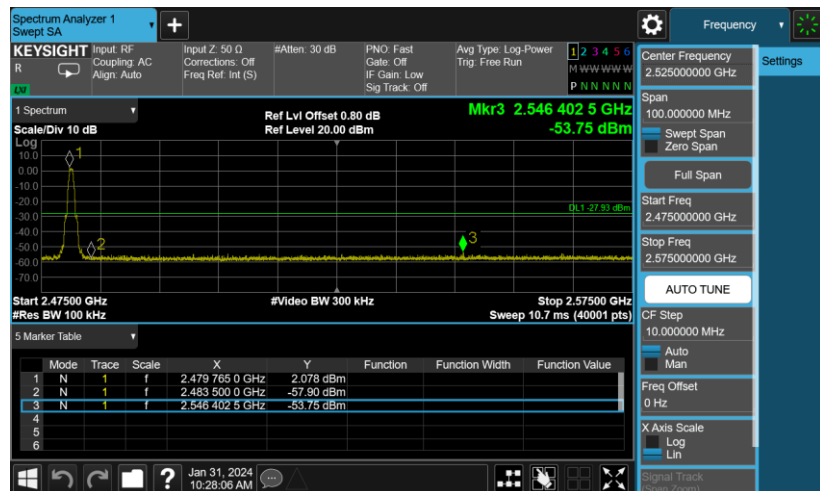


BLR C8

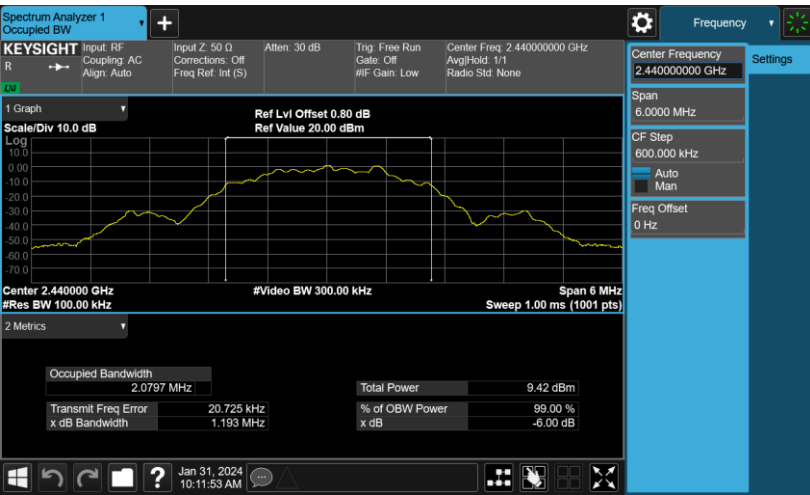
Low ch



High ch



6 dB Bandwidth

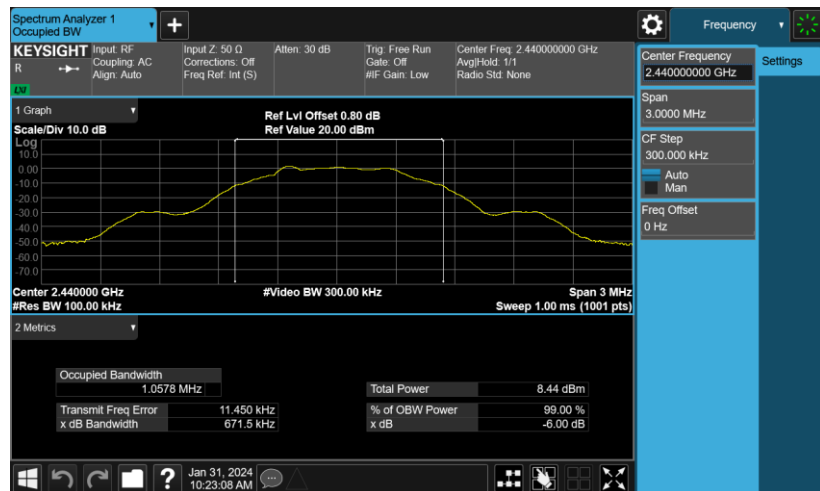
BLE 2M Low ch	 Center Frequency: 2.40200000 GHz Span: 6.0000 MHz CF Step: 600.000 kHz Freq Offset: 0 Hz Occupied Bandwidth: 2.0801 MHz Total Power: 8.63 dBm Transmit Freq Error: 21.507 kHz % of OBW Power: 99.00 %
Mid ch	 Center Frequency: 2.44000000 GHz Span: 6.0000 MHz CF Step: 600.000 kHz Freq Offset: 0 Hz Occupied Bandwidth: 2.0797 MHz Total Power: 9.42 dBm Transmit Freq Error: 20.725 kHz % of OBW Power: 99.00 %
High ch	 Center Frequency: 2.48000000 GHz Span: 6.0000 MHz CF Step: 600.000 kHz Freq Offset: 0 Hz Occupied Bandwidth: 2.0811 MHz Total Power: 9.53 dBm Transmit Freq Error: 20.500 kHz % of OBW Power: 99.00 %

BLR C8

Low ch



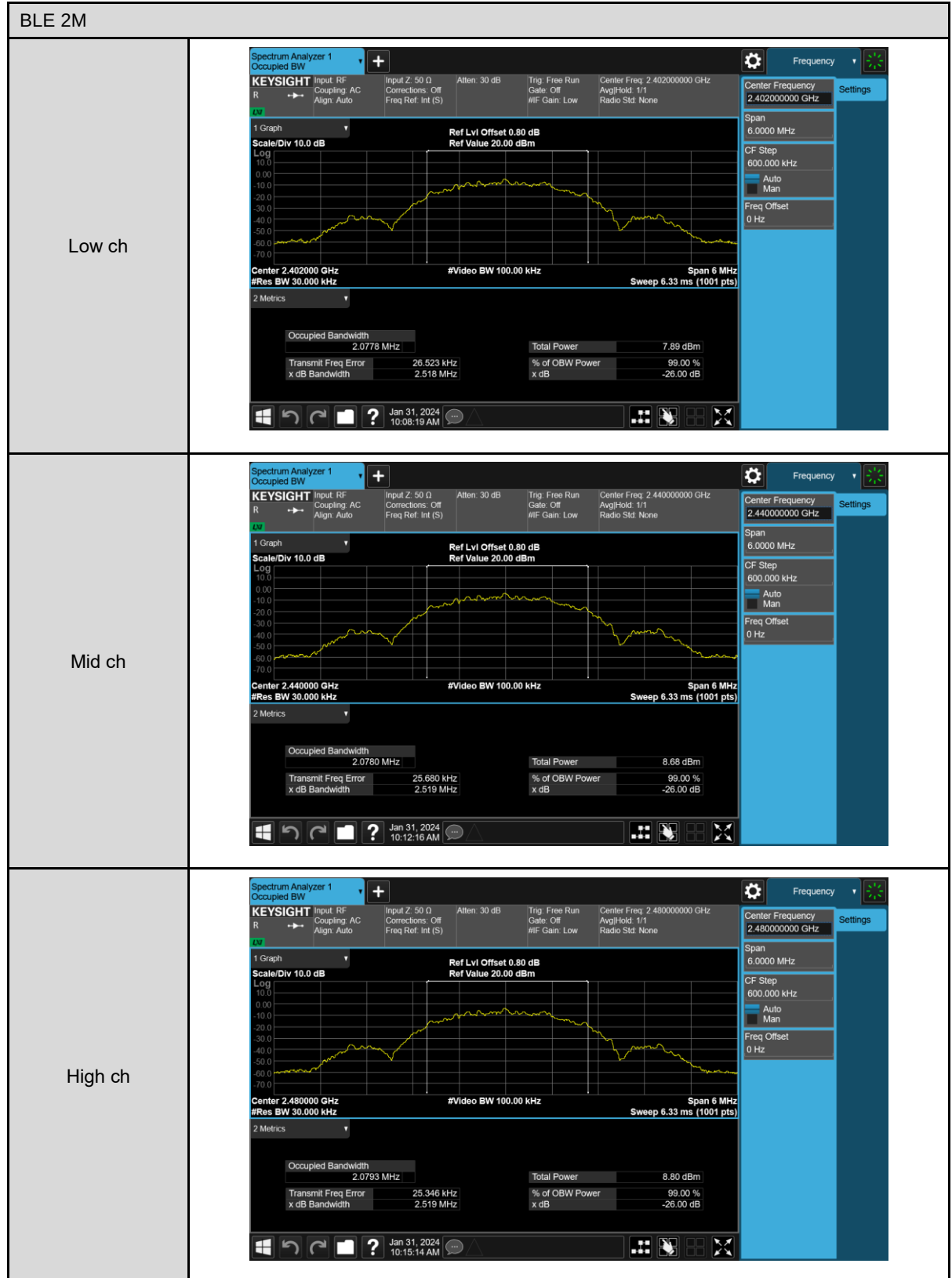
Mid ch



High ch

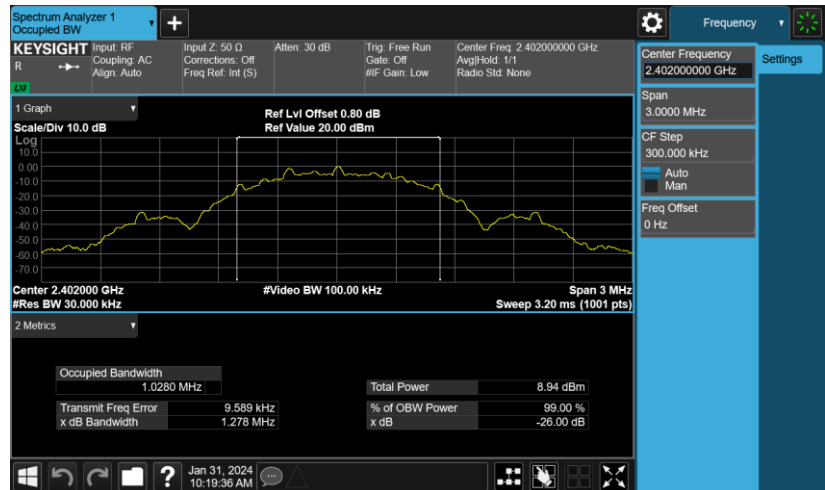


99 % Occupied Bandwidth

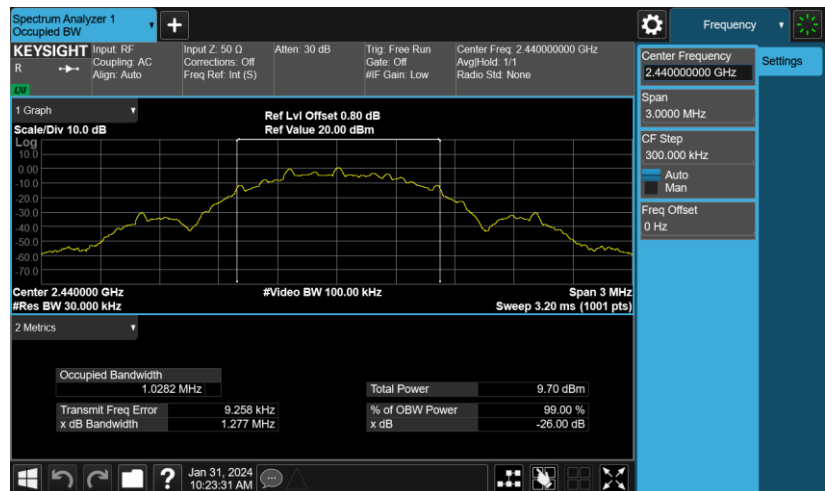


BLR C8

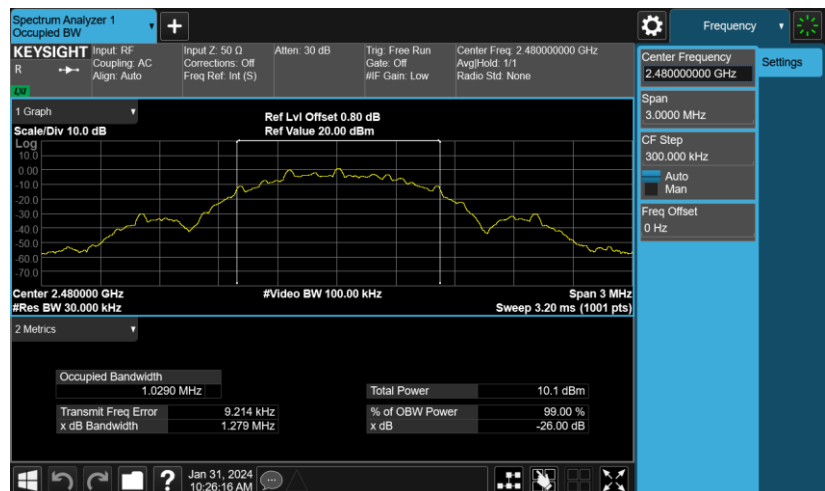
Low ch



Mid ch



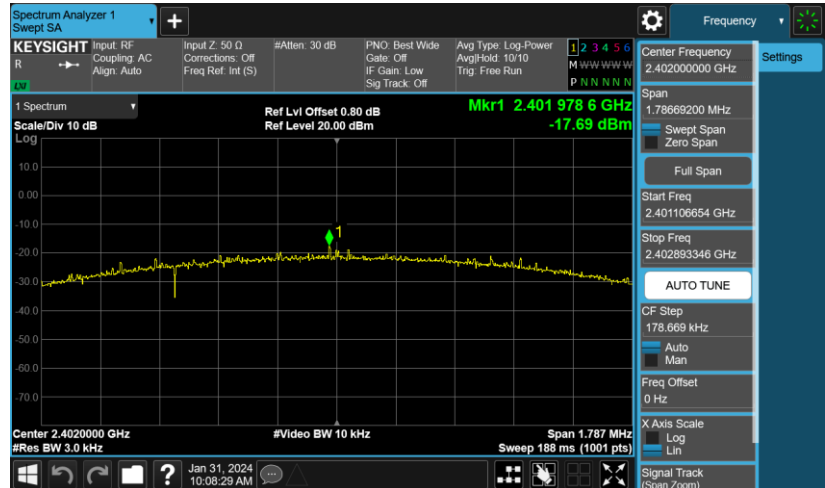
High ch



Power Density

BLE 2M

Low ch



Mid ch

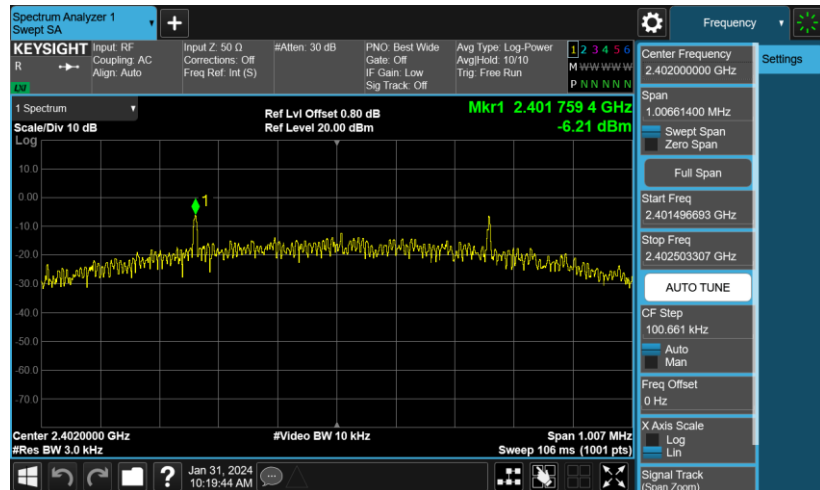


High ch

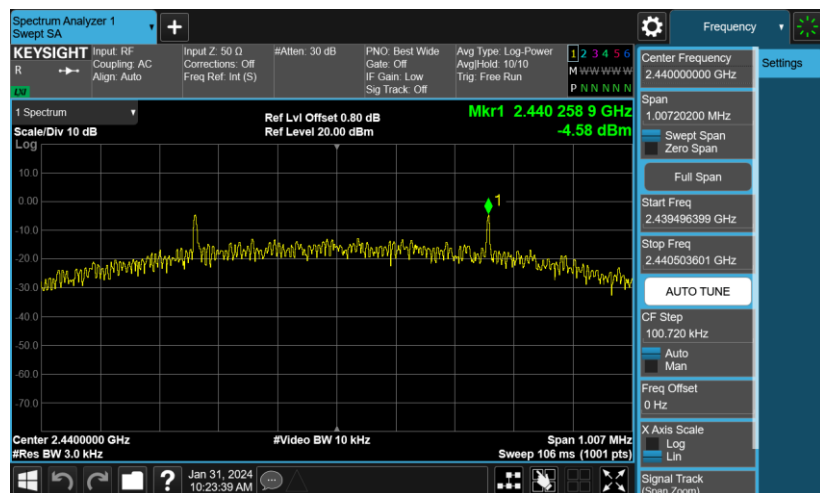


BLR C8

Low ch



Mid ch



High ch

