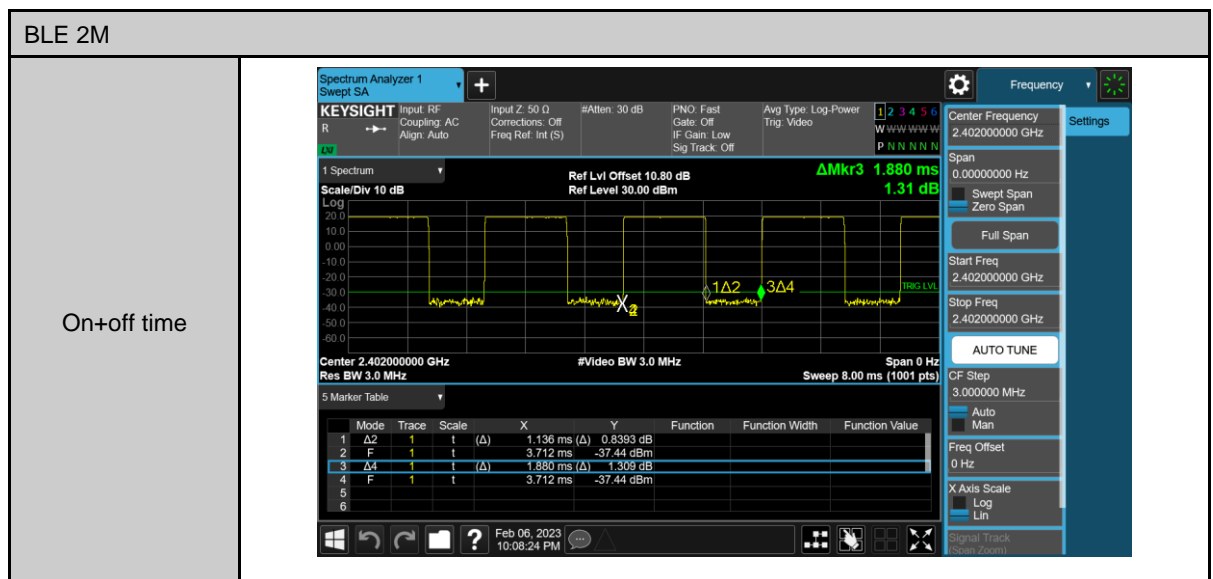
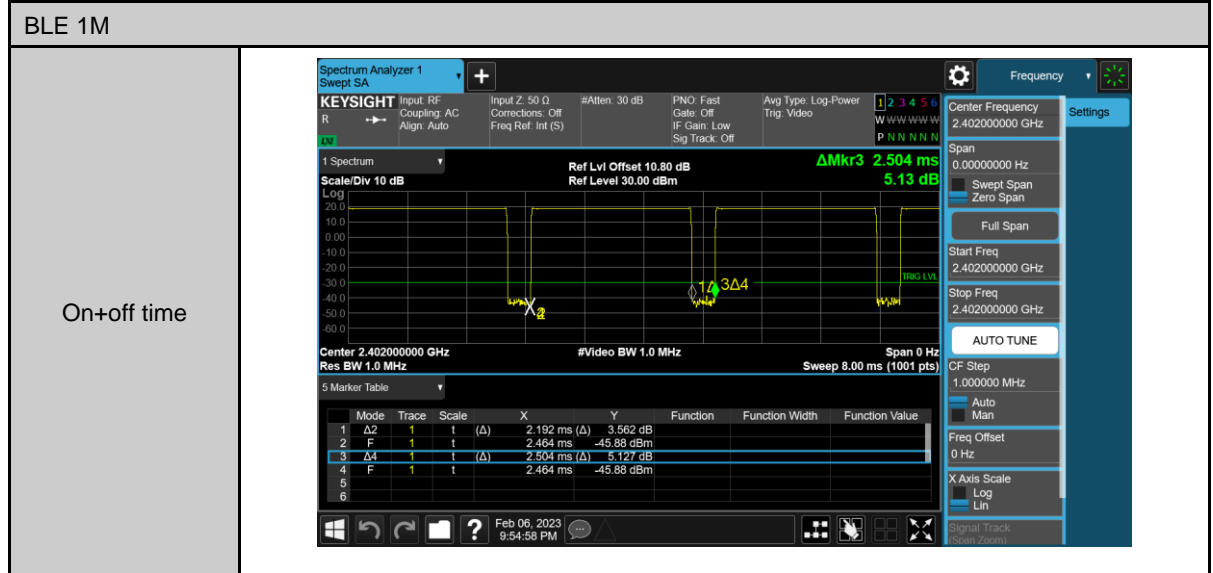
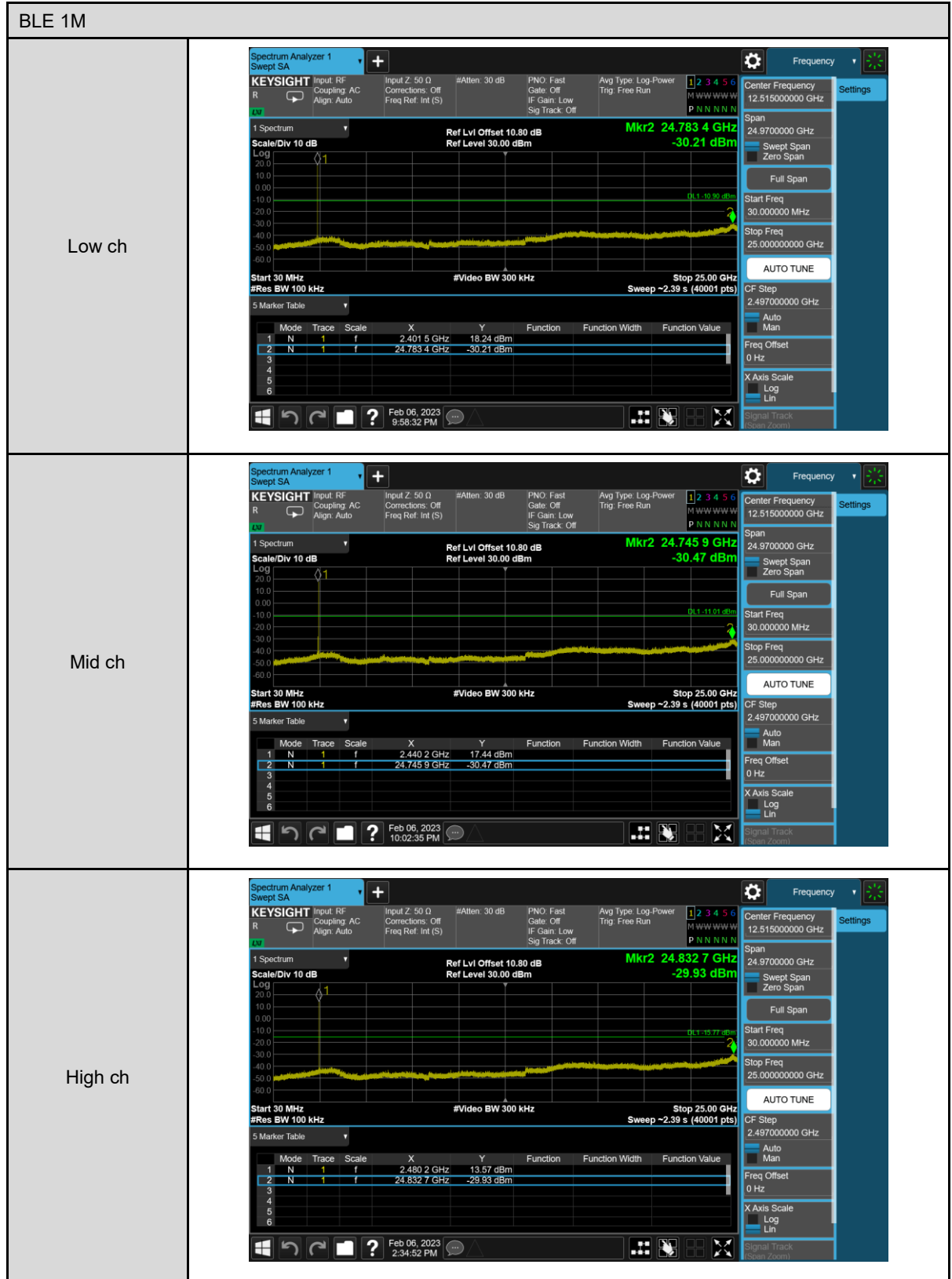


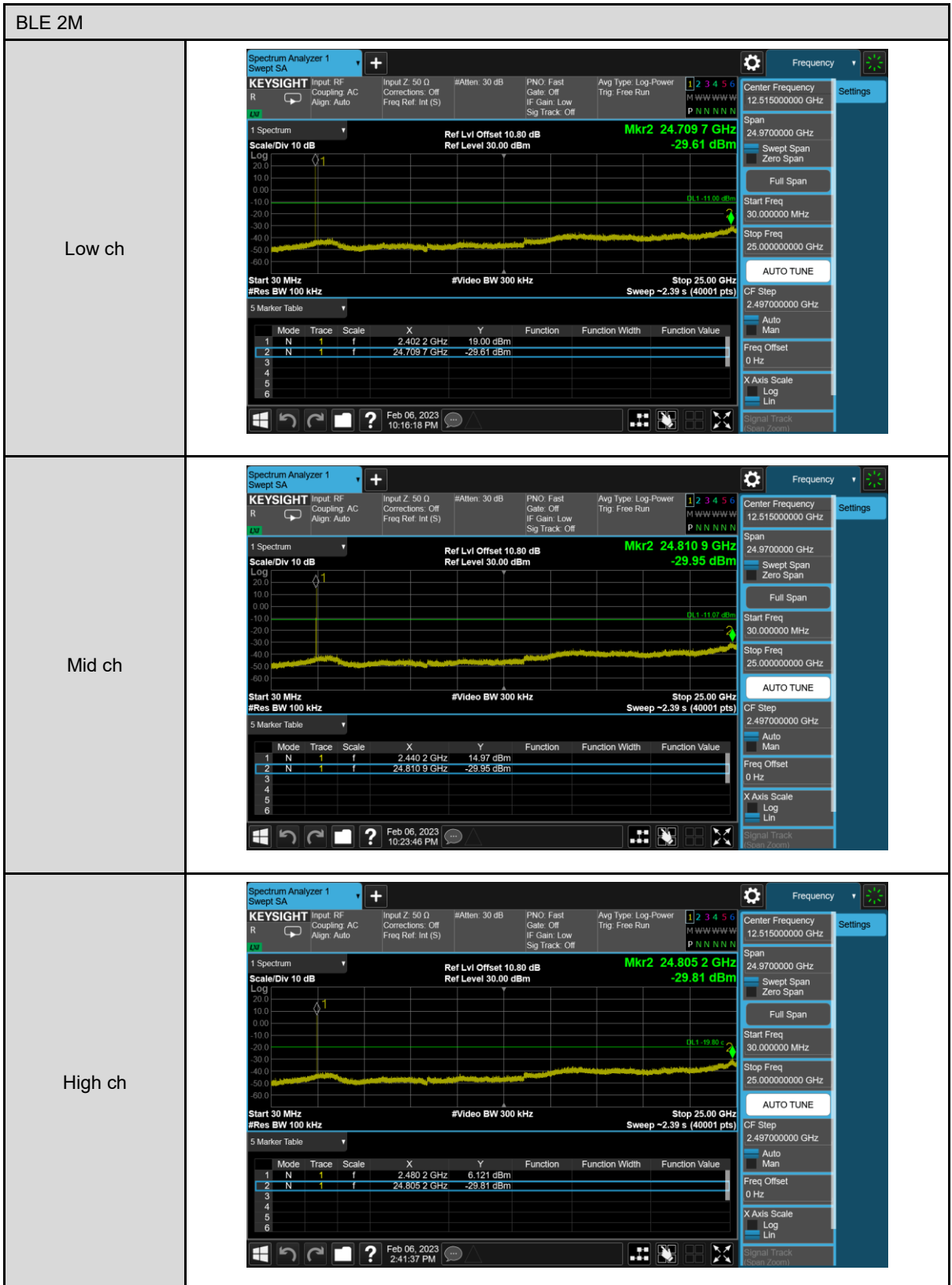
Appendix B. Test Plots

Duty cycle



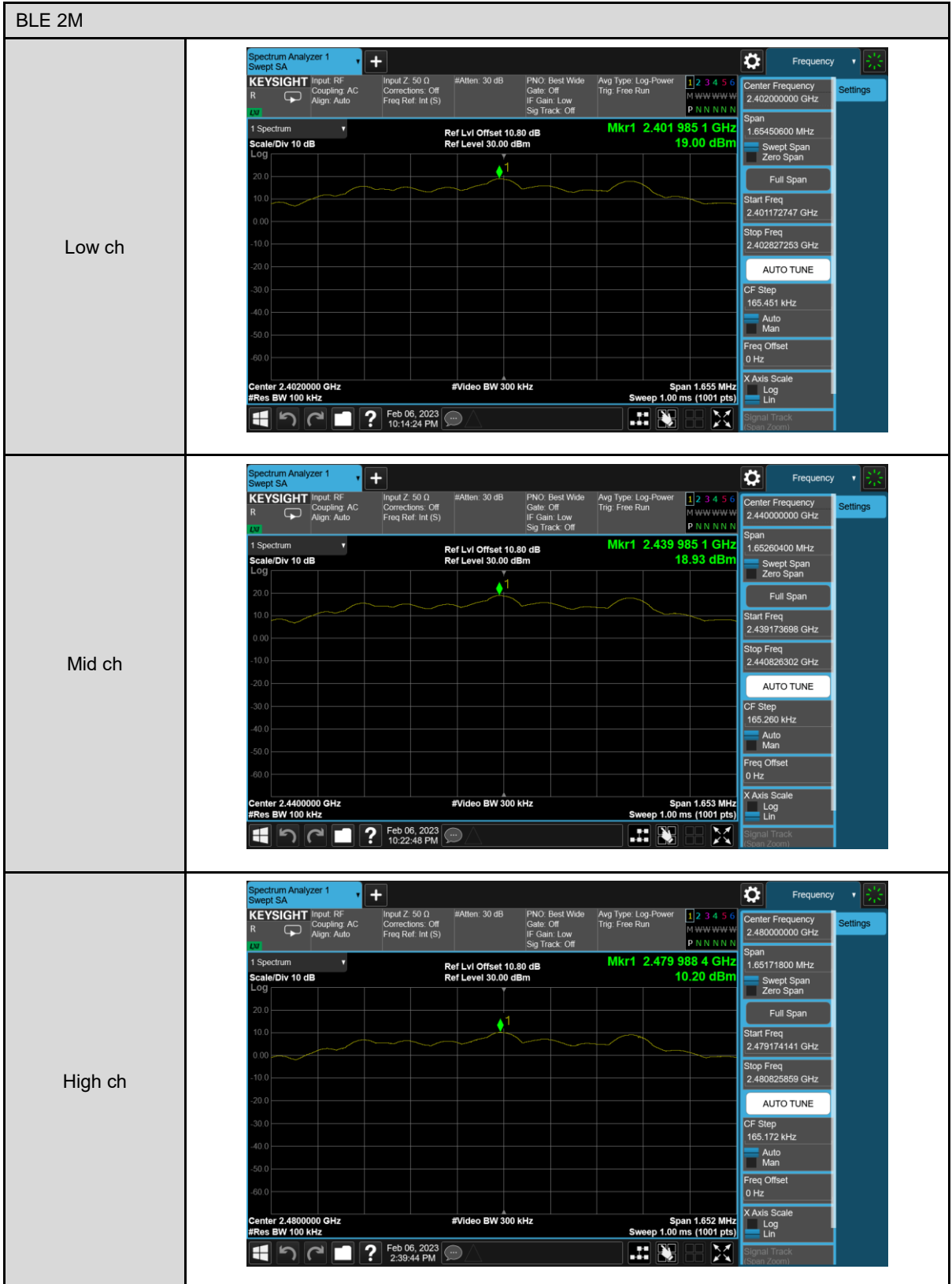
Out of Band Conducted Spurious Emission





Reference level

| BLE 1M | |
|---------|---|
| Low ch | <p>Center Frequency: 2.4020000 GHz Span: 967.758000 kHz Mkr1: 2.402 219 7 GHz 19.10 dBm Ref Lvl Offset 10.80 dB Ref Level 30.00 dBm</p> |
| Mid ch | <p>Center Frequency: 2.4400000 GHz Span: 967.058000 kHz Mkr1: 2.439 986 5 GHz 18.99 dBm Ref Lvl Offset 10.80 dB Ref Level 30.00 dBm</p> |
| High ch | <p>Center Frequency: 2.4800000 GHz Span: 968.154000 kHz Mkr1: 2.479 987 4 GHz 14.23 dBm Ref Lvl Offset 10.80 dB Ref Level 30.00 dBm</p> |

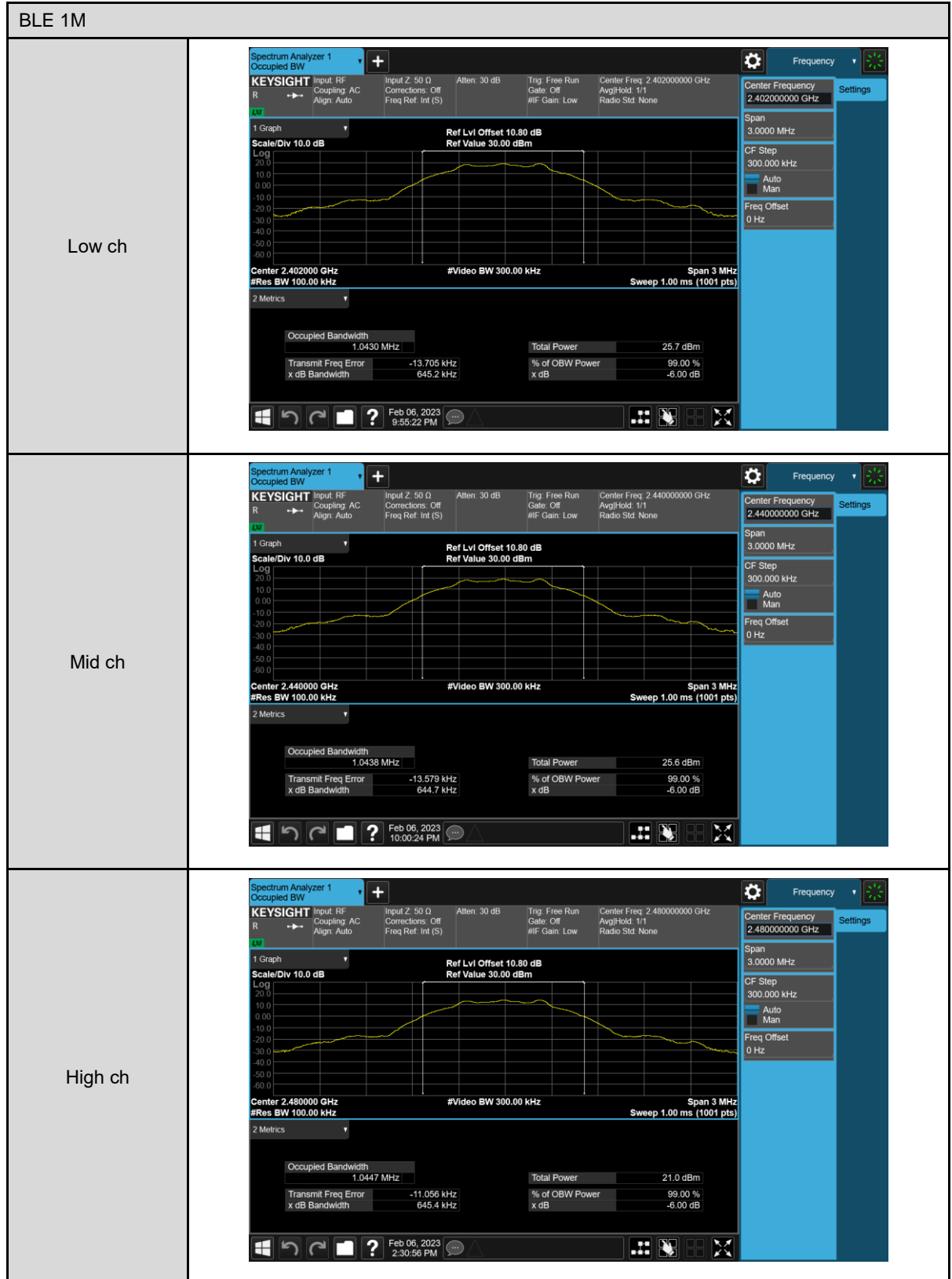


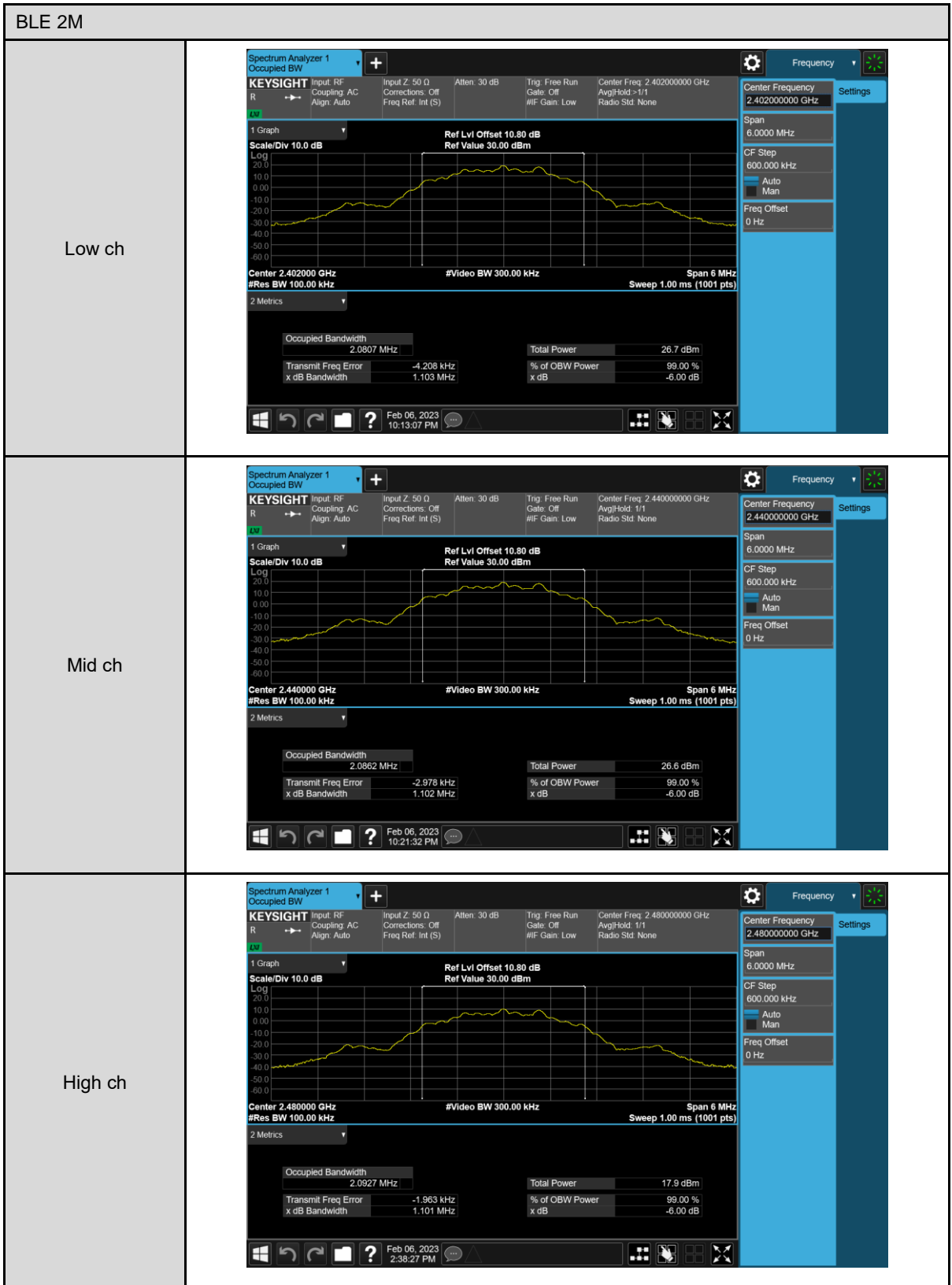
Conducted Band Edge



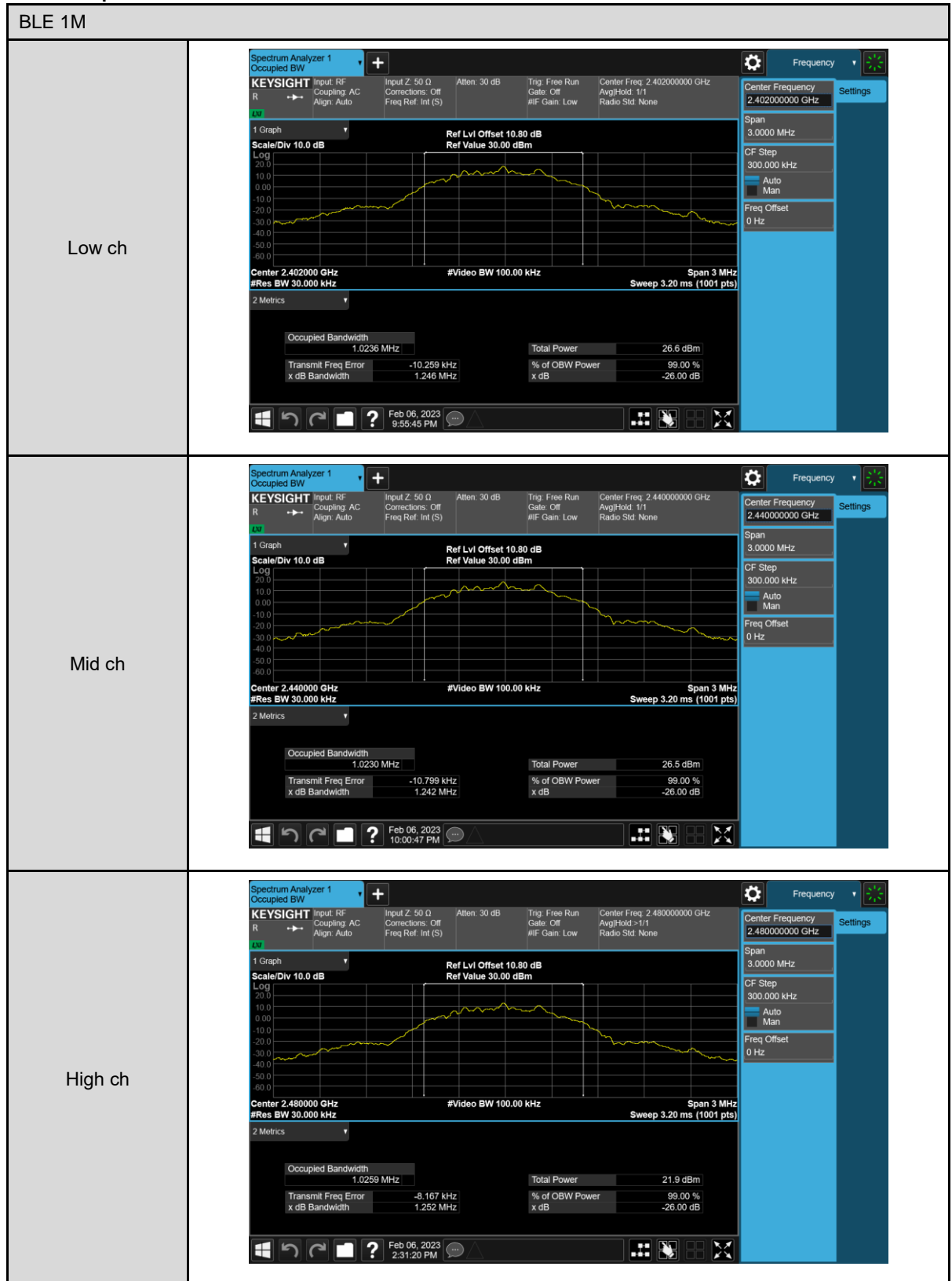


6 dB Bandwidth





99 % Occupied Bandwidth



| BLE 2M | | | | | | | | | | | | | |
|------------------------------------|---|---------------------|------------|-------------|----------|------------------------------------|------------|---------------------|---------|--|-----------|--|-----------|
| <p>Low ch</p> | <p>Center Frequency: 2.40200000 GHz</p> <p>Span: 6.0000 MHz</p> <p>CF Step: 600.000 kHz</p> <p>Scale/Div: 10.0 dB</p> <p>Ref Lvl Offset: 10.80 dB</p> <p>Ref Value: 30.00 dBm</p> <p>Center: 2.402000 GHz</p> <p>#Res BW: 30.000 kHz</p> <p>#Video BW: 100.00 kHz</p> <p>Span: 6 MHz</p> <p>Sweep: 6.33 ms (1001 pts)</p> <table border="1"> <tr> <td>Occupied Bandwidth</td> <td>2.0779 MHz</td> <td>Total Power</td> <td>26.3 dBm</td> </tr> <tr> <td>Transmit Freq Error x dB Bandwidth</td> <td>-1.729 kHz</td> <td>% of OBW Power x dB</td> <td>99.00 %</td> </tr> <tr> <td></td> <td>2.438 MHz</td> <td></td> <td>-26.00 dB</td> </tr> </table> | Occupied Bandwidth | 2.0779 MHz | Total Power | 26.3 dBm | Transmit Freq Error x dB Bandwidth | -1.729 kHz | % of OBW Power x dB | 99.00 % | | 2.438 MHz | | -26.00 dB |
| Occupied Bandwidth | 2.0779 MHz | Total Power | 26.3 dBm | | | | | | | | | | |
| Transmit Freq Error x dB Bandwidth | -1.729 kHz | % of OBW Power x dB | 99.00 % | | | | | | | | | | |
| | 2.438 MHz | | -26.00 dB | | | | | | | | | | |
| <p>Mid ch</p> | <p>Center Frequency: 2.44000000 GHz</p> <p>Span: 6.0000 MHz</p> <p>CF Step: 600.000 kHz</p> <p>Scale/Div: 10.0 dB</p> <p>Ref Lvl Offset: 10.80 dB</p> <p>Ref Value: 30.00 dBm</p> <p>Center: 2.440000 GHz</p> <p>#Res BW: 30.000 kHz</p> <p>#Video BW: 100.00 kHz</p> <p>Span: 6 MHz</p> <p>Sweep: 6.33 ms (1001 pts)</p> <table border="1"> <tr> <td>Occupied Bandwidth</td> <td>2.0827 MHz</td> <td>Total Power</td> <td>26.3 dBm</td> </tr> <tr> <td>Transmit Freq Error x dB Bandwidth</td> <td>-2.277 kHz</td> <td>% of OBW Power x dB</td> <td>99.00 %</td> </tr> <tr> <td></td> <td>2.441 MHz</td> <td></td> <td>-26.00 dB</td> </tr> </table> | Occupied Bandwidth | 2.0827 MHz | Total Power | 26.3 dBm | Transmit Freq Error x dB Bandwidth | -2.277 kHz | % of OBW Power x dB | 99.00 % | | 2.441 MHz | | -26.00 dB |
| Occupied Bandwidth | 2.0827 MHz | Total Power | 26.3 dBm | | | | | | | | | | |
| Transmit Freq Error x dB Bandwidth | -2.277 kHz | % of OBW Power x dB | 99.00 % | | | | | | | | | | |
| | 2.441 MHz | | -26.00 dB | | | | | | | | | | |
| <p>High ch</p> | <p>Center Frequency: 2.48000000 GHz</p> <p>Span: 6.0000 MHz</p> <p>CF Step: 600.000 kHz</p> <p>Scale/Div: 10.0 dB</p> <p>Ref Lvl Offset: 10.80 dB</p> <p>Ref Value: 30.00 dBm</p> <p>Center: 2.480000 GHz</p> <p>#Res BW: 30.000 kHz</p> <p>#Video BW: 100.00 kHz</p> <p>Span: 6 MHz</p> <p>Sweep: 6.33 ms (1001 pts)</p> <table border="1"> <tr> <td>Occupied Bandwidth</td> <td>2.0938 MHz</td> <td>Total Power</td> <td>17.5 dBm</td> </tr> <tr> <td>Transmit Freq Error x dB Bandwidth</td> <td>-776 Hz</td> <td>% of OBW Power x dB</td> <td>99.00 %</td> </tr> <tr> <td></td> <td>2.450 MHz</td> <td></td> <td>-26.00 dB</td> </tr> </table> | Occupied Bandwidth | 2.0938 MHz | Total Power | 17.5 dBm | Transmit Freq Error x dB Bandwidth | -776 Hz | % of OBW Power x dB | 99.00 % | | 2.450 MHz | | -26.00 dB |
| Occupied Bandwidth | 2.0938 MHz | Total Power | 17.5 dBm | | | | | | | | | | |
| Transmit Freq Error x dB Bandwidth | -776 Hz | % of OBW Power x dB | 99.00 % | | | | | | | | | | |
| | 2.450 MHz | | -26.00 dB | | | | | | | | | | |

Power Density

| BLE 1M | |
|----------------|--|
| <p>Low ch</p> | <p>Center Frequency: 2.40200000 GHz Span: 967.758000 kHz Start Freq: 2.401516121 GHz Stop Freq: 2.402483879 GHz Mkr1 2.401 978 7 GHz 4.00 dBm Center 2.4020000 GHz #Res BW 3.0 kHz #Video BW 10 kHz Sweep 102 ms (1001 pts)</p> |
| <p>Mid ch</p> | <p>Center Frequency: 2.44000000 GHz Span: 967.058000 kHz Start Freq: 2.439516471 GHz Stop Freq: 2.440483529 GHz Mkr1 2.439 977 8 GHz 3.91 dBm Center 2.4400000 GHz #Res BW 3.0 kHz #Video BW 10 kHz Sweep 102 ms (1001 pts)</p> |
| <p>High ch</p> | <p>Center Frequency: 2.48000000 GHz Span: 968.154000 kHz Start Freq: 2.479515923 GHz Stop Freq: 2.480484077 GHz Mkr1 2.480 001 0 GHz -0.91 dBm Center 2.4800000 GHz #Res BW 3.0 kHz #Video BW 10 kHz Sweep 102 ms (1001 pts)</p> |

