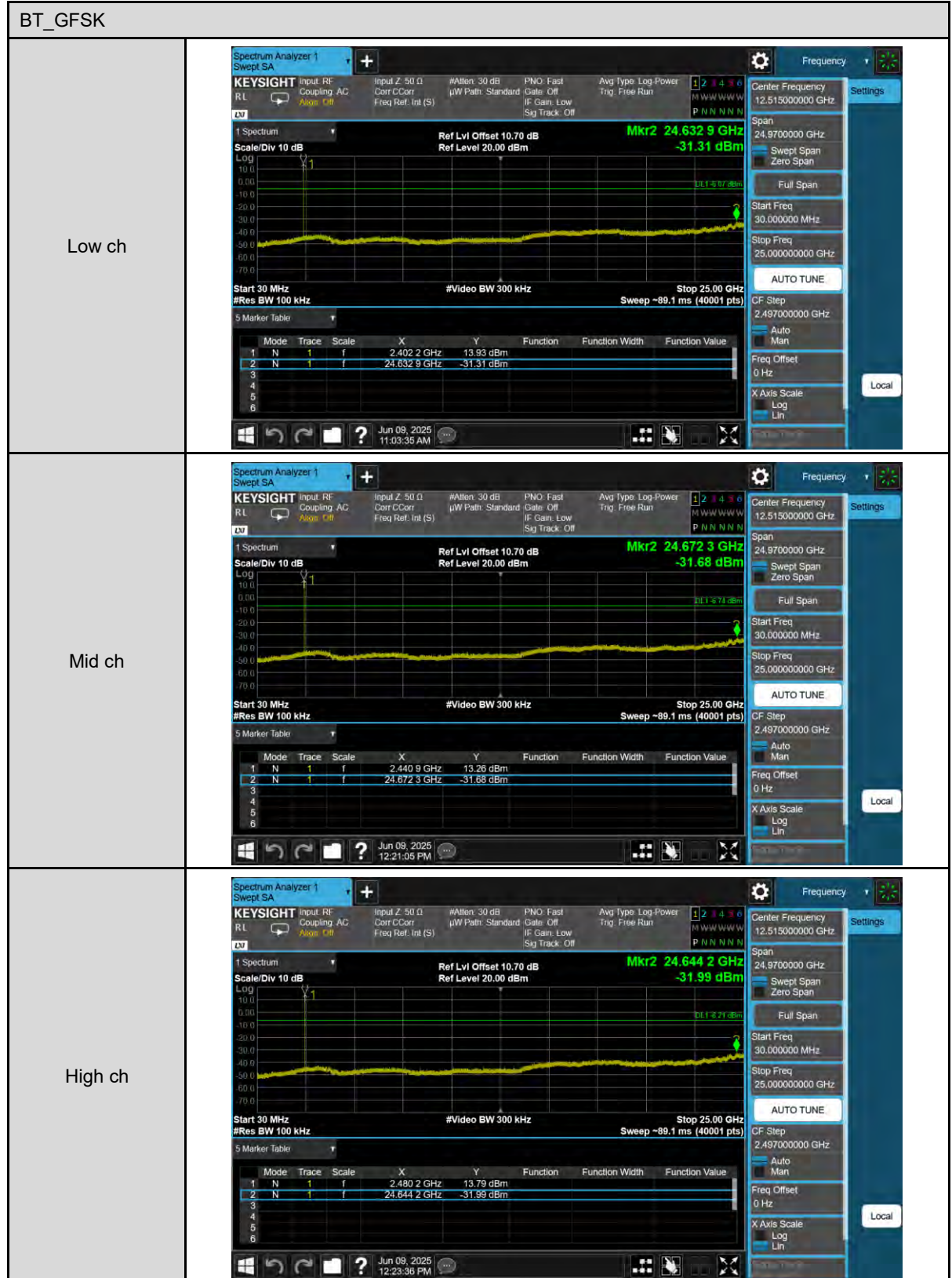
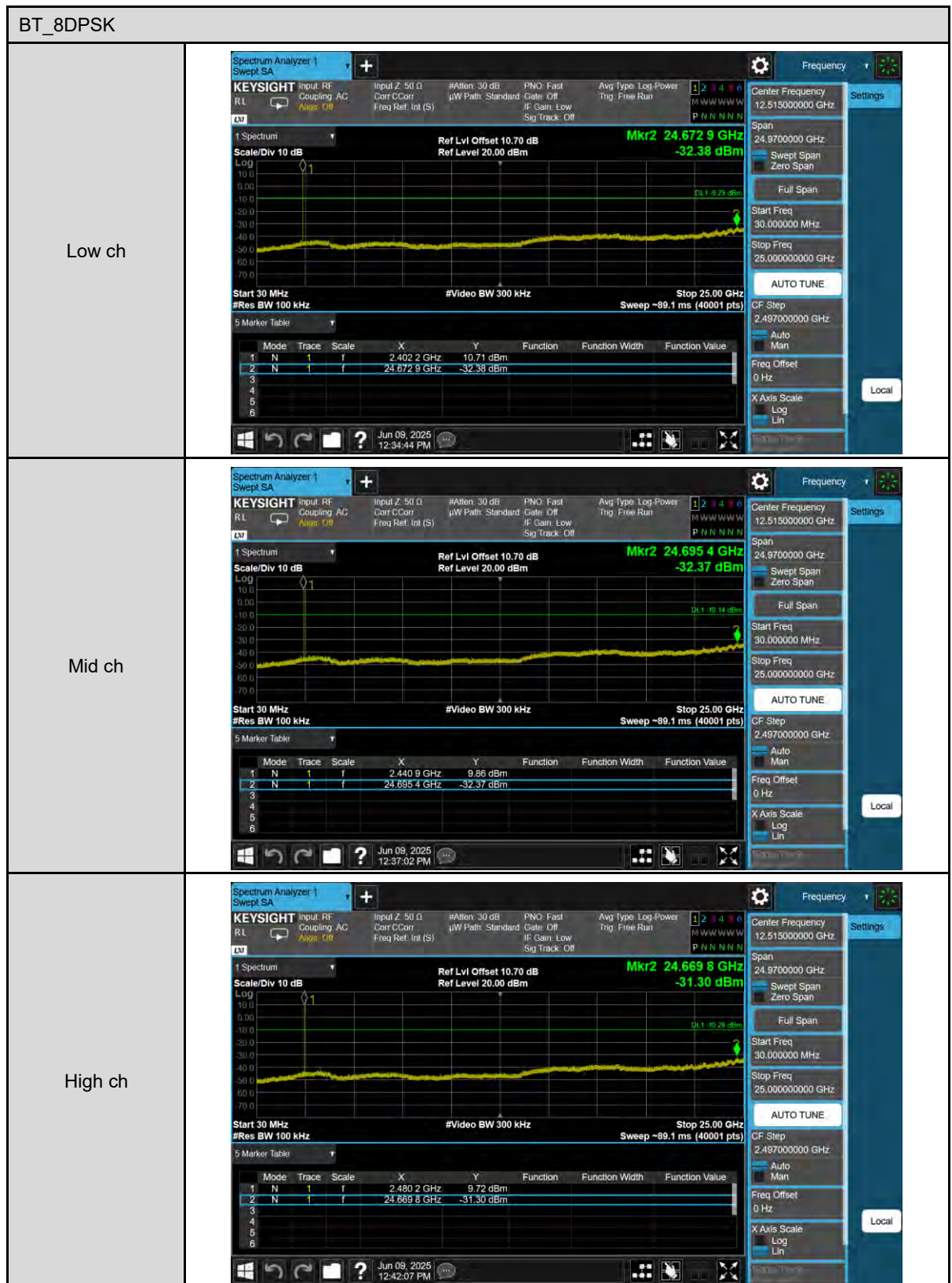


Appendix B. Test Plots

Out of Band Conducted Spurious Emission

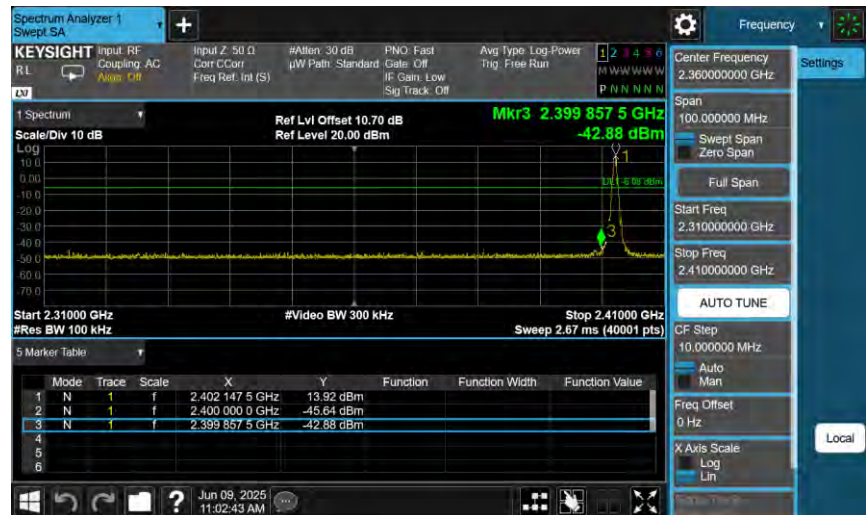




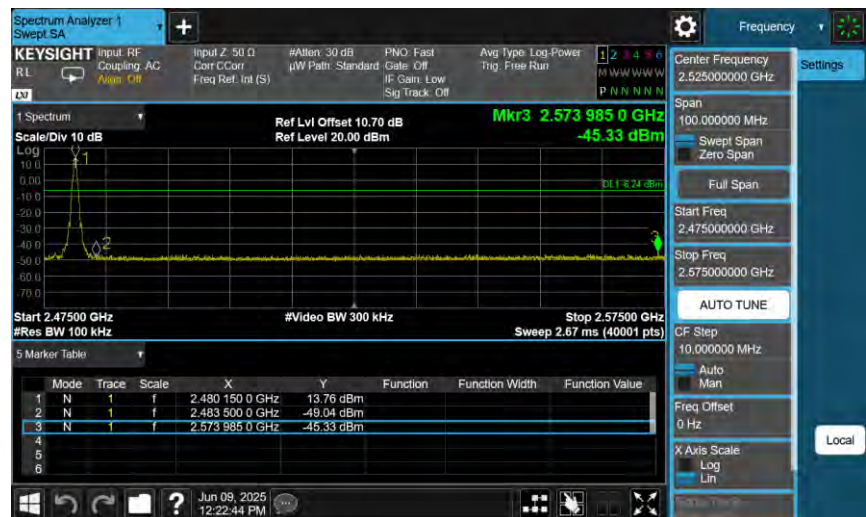
Conducted Band Edge

BT_GFSK_Non-Hopping

Low ch

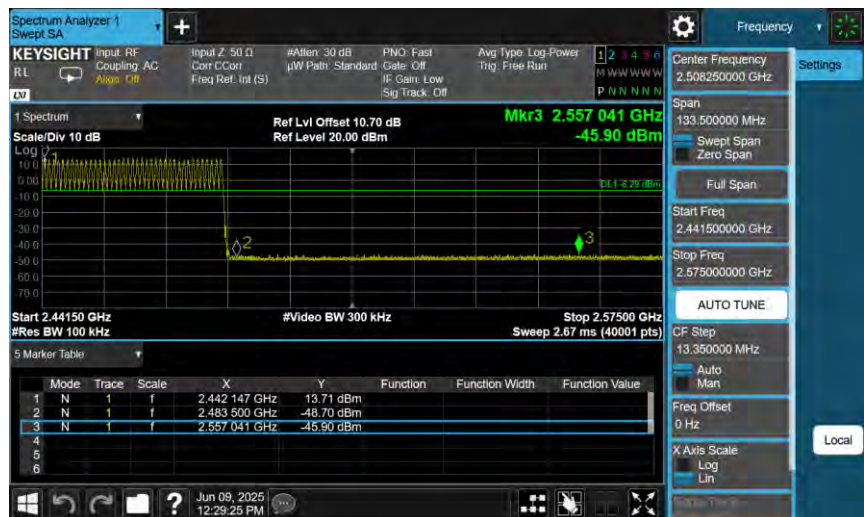
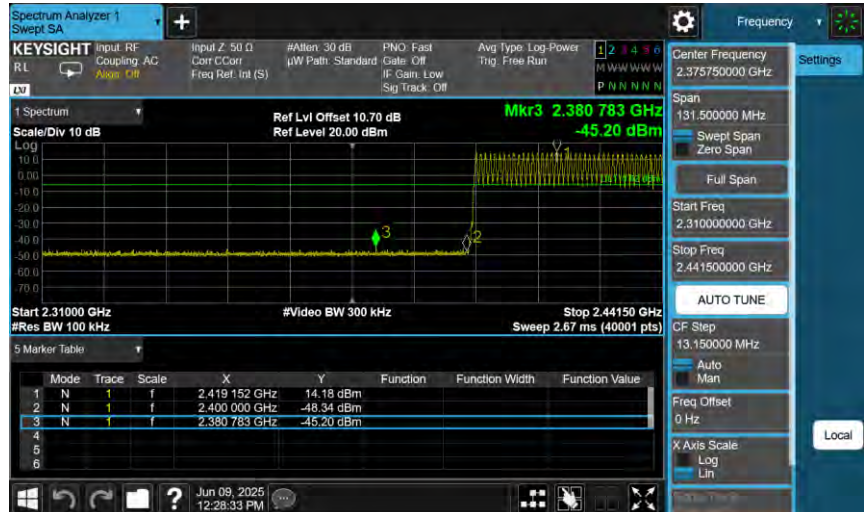


High ch



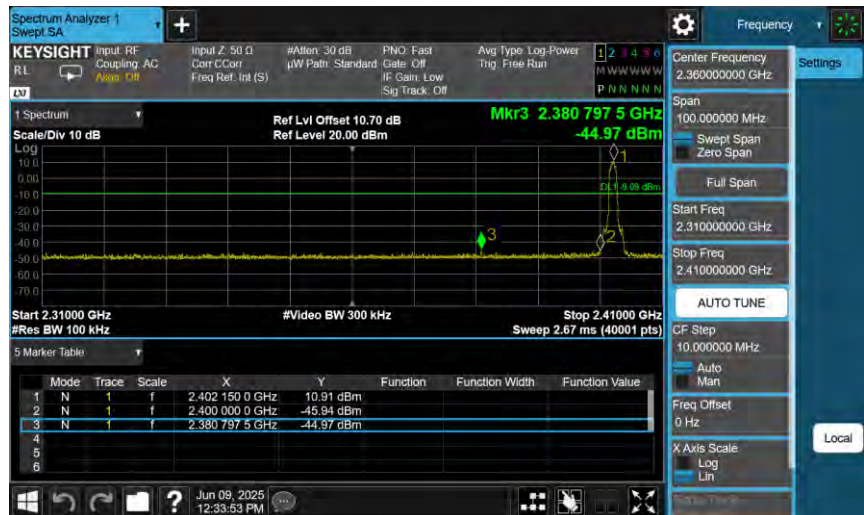
BT_GFSK_Hopping

Low ch-High ch

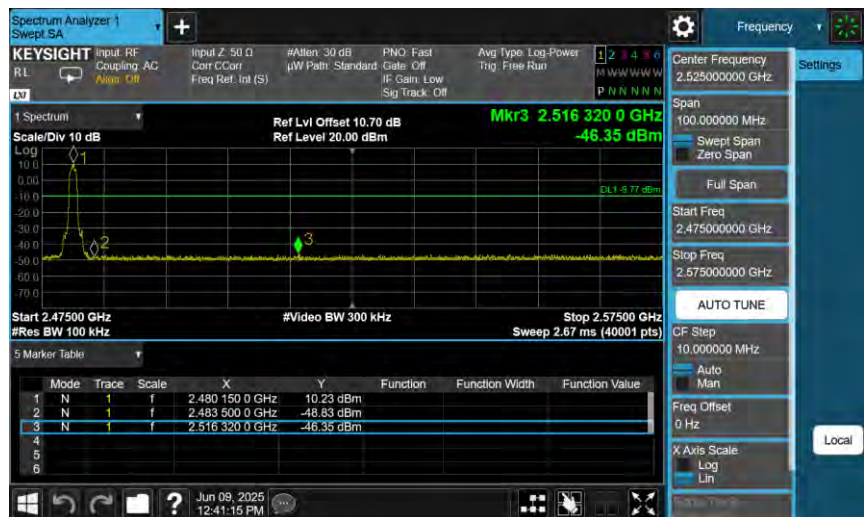


BT_8DPSK _Non-Hopping

Low ch

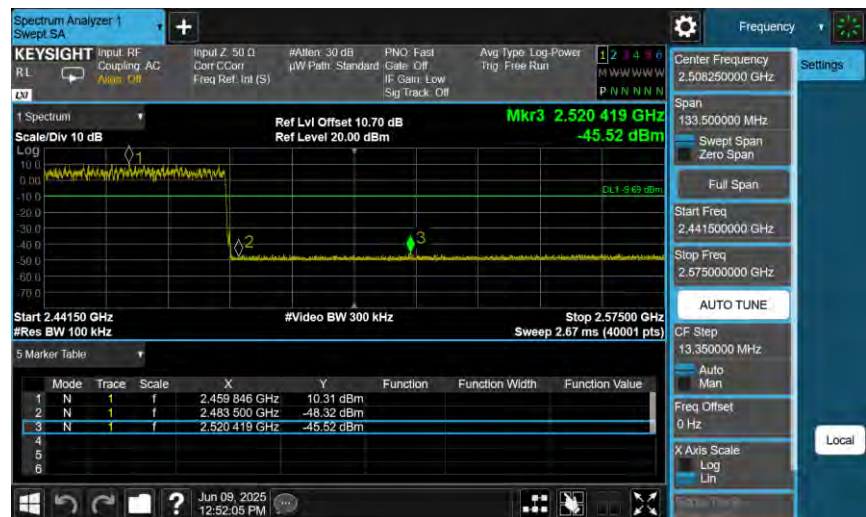
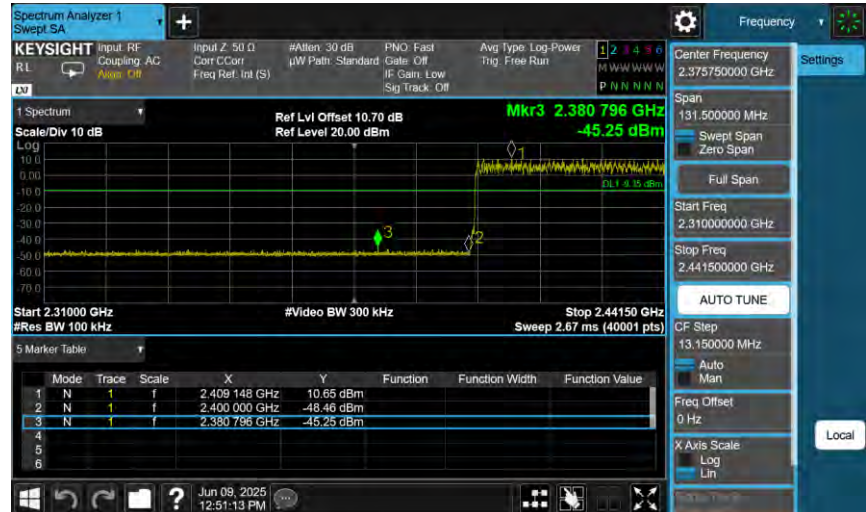


High ch



BT_8DPSK_Hopping

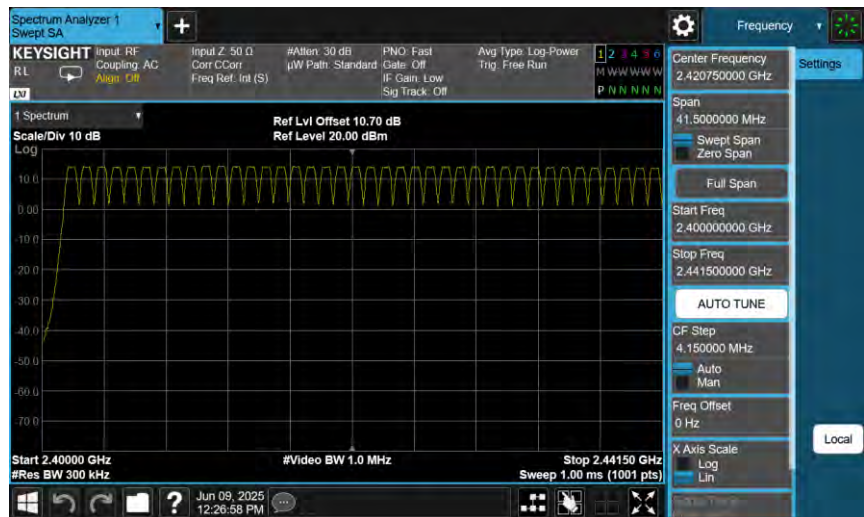
Low ch-High ch



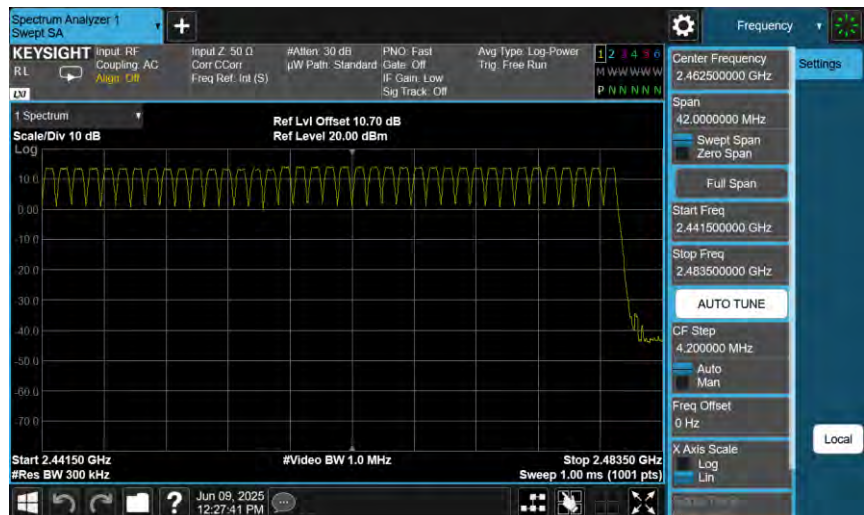
Number of Hopping

BT_GFSK

CH00 - CH39

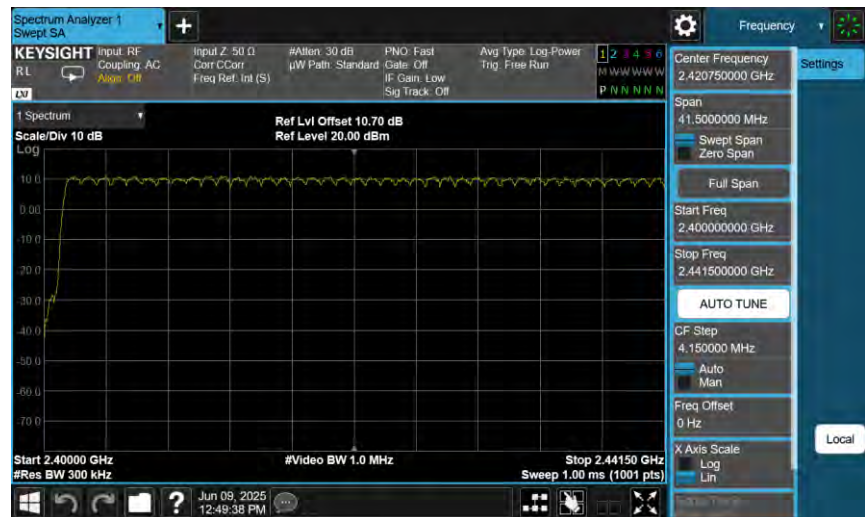


CH39- CH78

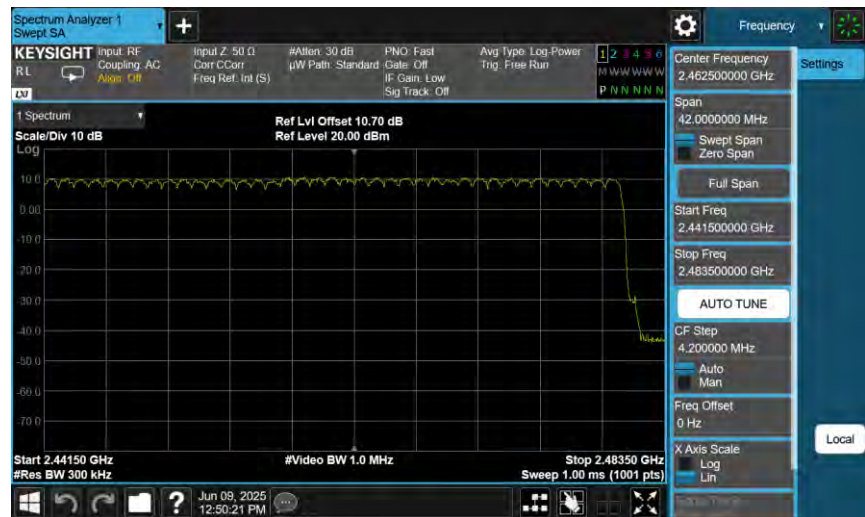


BT_8DPSK

CH00 - CH39

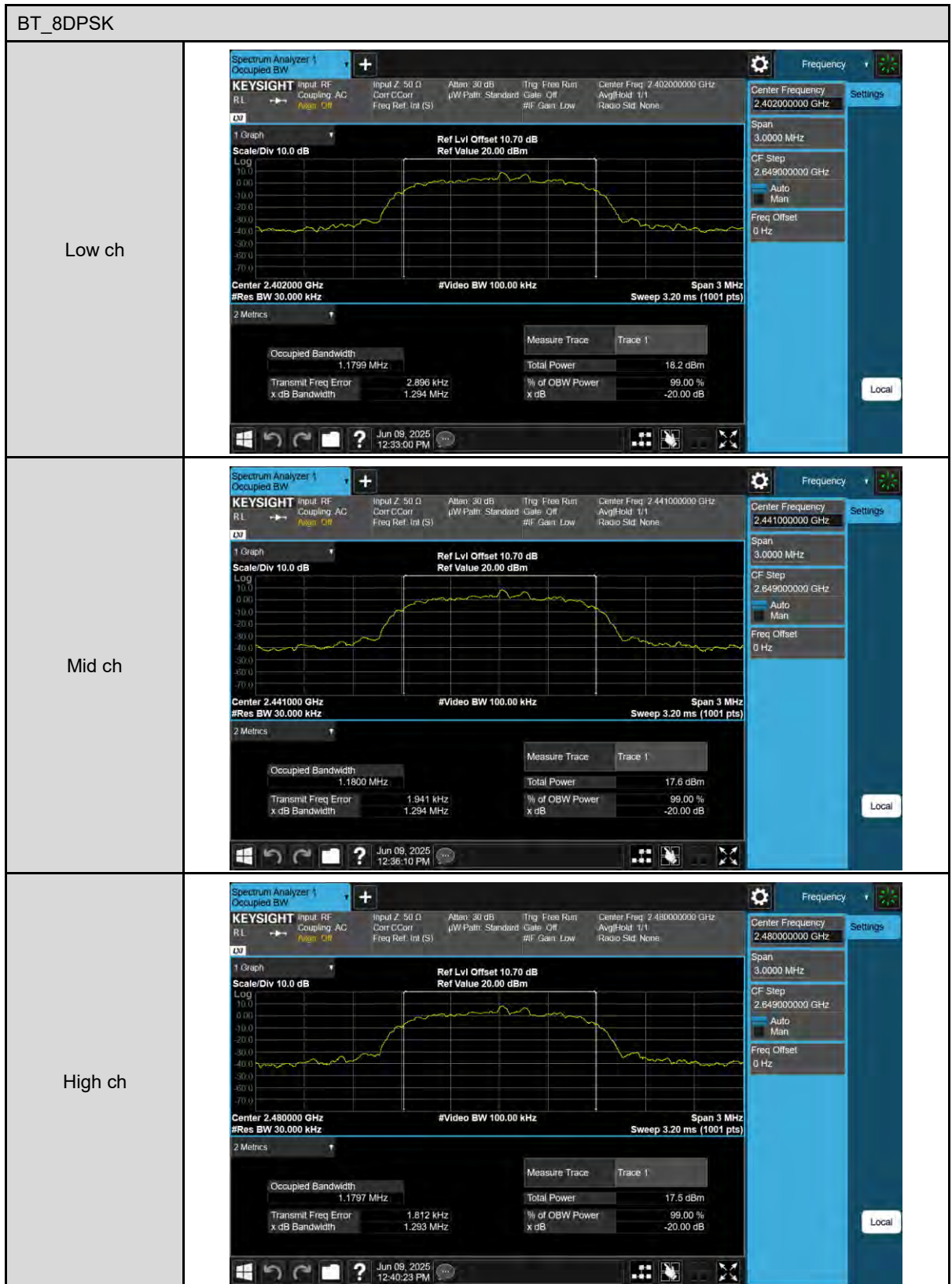


CH39- CH78



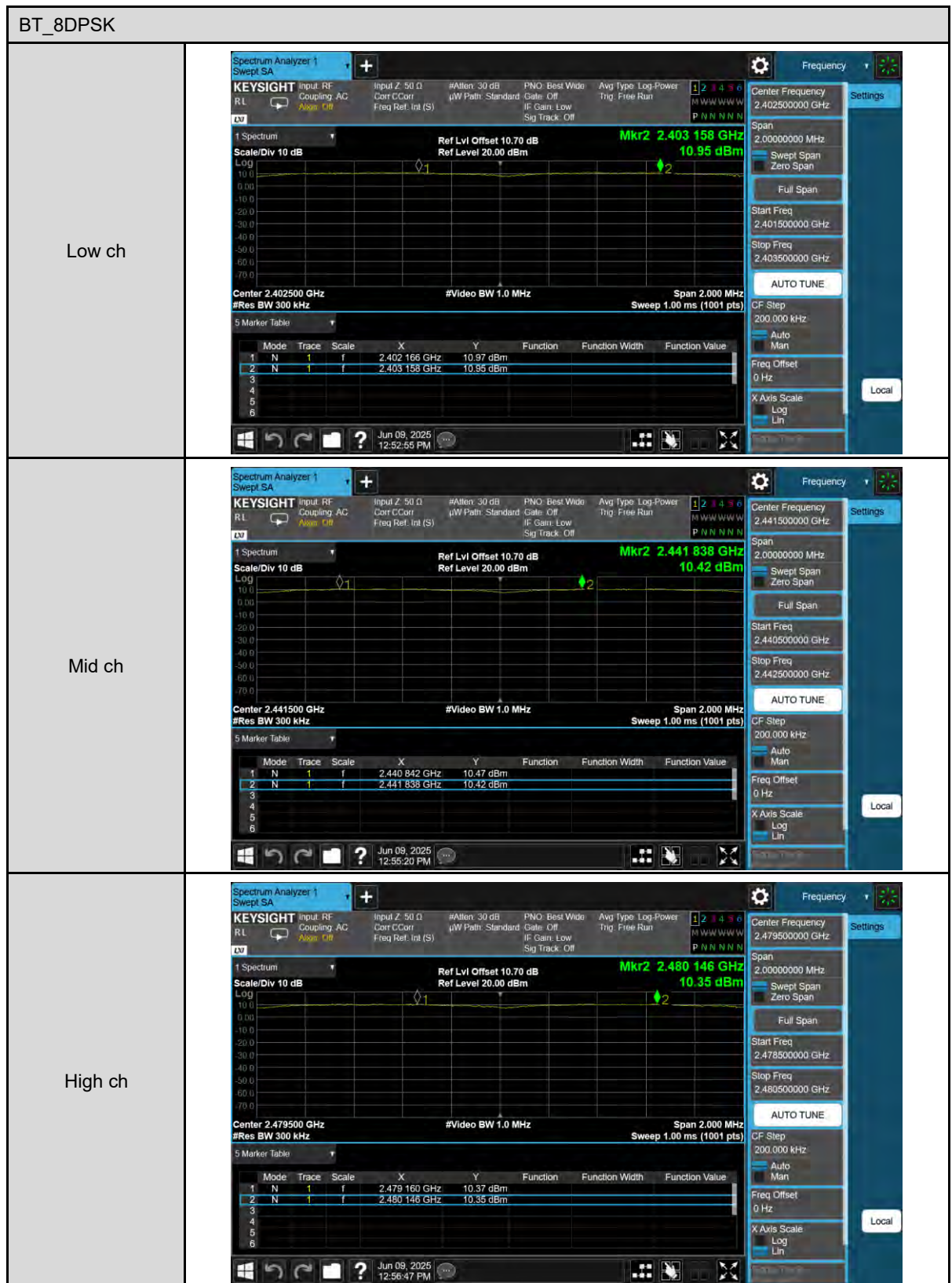
20 dB RF Bandwidth & 99 % Occupied Bandwidth

BT_GFSK	 Low ch
Mid ch	 Mid ch
High ch	 High ch



Carrier Frequency Separation

BT_GFSK	 Low ch
Mid ch	 Mid ch
High ch	 High ch

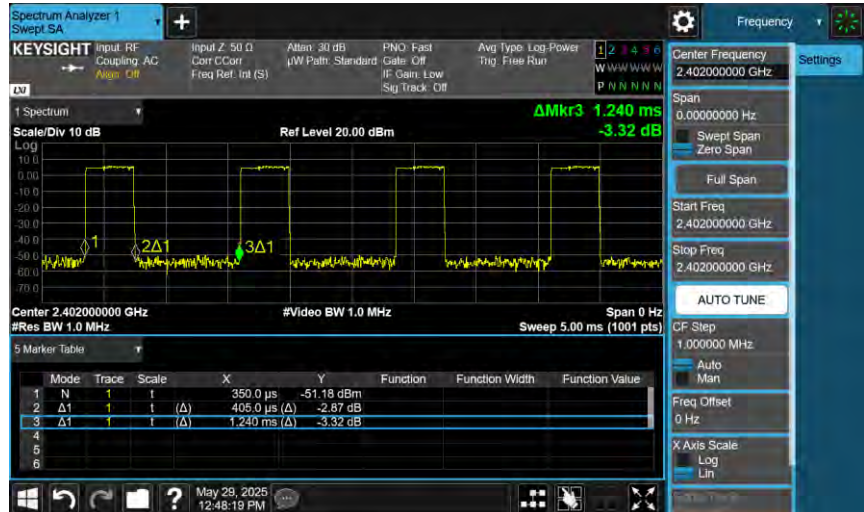


Time of Occupancy (Dwell Time)

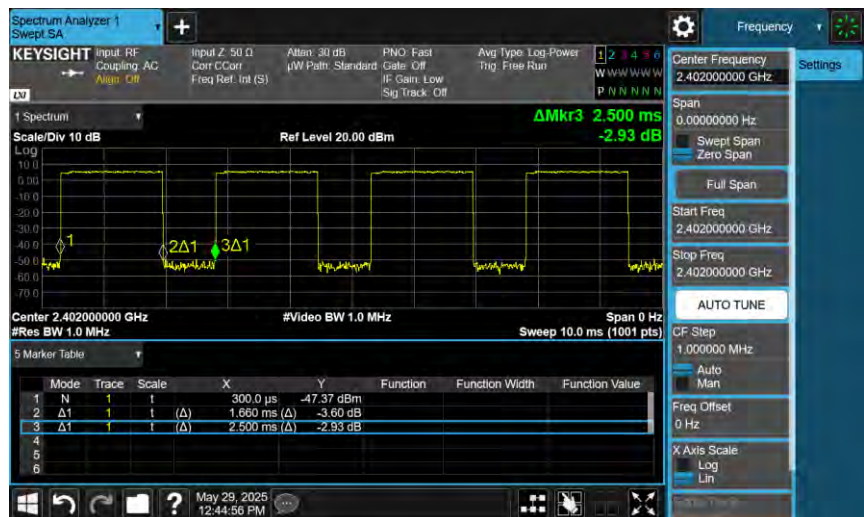
BT_GFSK																																																									
DH1	Spectrum Analyzer 1 + KEYSIGHT Input: RF Coupling: AC Align: Off Input Z: 50 Ω Corr: CCorr Freq Ref: Int (S) Attain: 30 dB μW Path: Standard PNO: Fast Gate: Off IF Gain: Low Sig Track: Off Avg Type: Log-Power Trig: Free Run 1 2 3 4 5 6 WWW WWW P N N N N N Center Frequency 2.402000000 GHz Span 0.00000000 Hz Swept Span Zero Span Full Span Start Freq 2.402000000 GHz Stop Freq 2.402000000 GHz AUTO TUNE CF Step 1.000000 MHz Auto Man Freq Offset 0 Hz X Axis Scale Log Lin Settings 1 Spectrum Scale/Div 10 dB Ref Level 20.00 dBm ΔMkr3 1.250 ms 0.23 dB Center 2.402000000 GHz #Res BW 1.0 MHz #Video BW 1.0 MHz Sweep 5.00 ms (1001 pts) 5 Marker Table <table><tr><th>Mode</th><th>Trace</th><th>Scale</th><th>X</th><th>Y</th><th>Function</th><th>Function Width</th><th>Function Value</th></tr><tr><td>1</td><td>N</td><td>1</td><td>t</td><td>215.0 μs</td><td>-50.77 dBm</td><td></td><td></td></tr><tr><td>2</td><td>Δ1</td><td>1</td><td>t (Δ)</td><td>400.0 μs (Δ)</td><td>-3.86 dB</td><td></td><td></td></tr><tr><td>3</td><td>Δ1</td><td>1</td><td>t (Δ)</td><td>1.250 ms (Δ)</td><td>0.23 dB</td><td></td><td></td></tr><tr><td>4</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>5</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>6</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table> May 29, 2025 12:39:22 PM	Mode	Trace	Scale	X	Y	Function	Function Width	Function Value	1	N	1	t	215.0 μs	-50.77 dBm			2	Δ1	1	t (Δ)	400.0 μs (Δ)	-3.86 dB			3	Δ1	1	t (Δ)	1.250 ms (Δ)	0.23 dB			4								5								6							
Mode	Trace	Scale	X	Y	Function	Function Width	Function Value																																																		
1	N	1	t	215.0 μs	-50.77 dBm																																																				
2	Δ1	1	t (Δ)	400.0 μs (Δ)	-3.86 dB																																																				
3	Δ1	1	t (Δ)	1.250 ms (Δ)	0.23 dB																																																				
4																																																									
5																																																									
6																																																									
DH3	Spectrum Analyzer 1 + KEYSIGHT Input: RF Coupling: AC Align: Off Input Z: 50 Ω Corr: CCorr Freq Ref: Int (S) Attain: 30 dB μW Path: Standard PNO: Fast Gate: Off IF Gain: Low Sig Track: Off Avg Type: Log-Power Trig: Free Run 1 2 3 4 5 6 WWW WWW P N N N N N Center Frequency 2.402000000 GHz Span 0.00000000 Hz Swept Span Zero Span Full Span Start Freq 2.402000000 GHz Stop Freq 2.402000000 GHz AUTO TUNE CF Step 1.000000 MHz Auto Man Freq Offset 0 Hz X Axis Scale Log Lin Settings 1 Spectrum Scale/Div 10 dB Ref Level 20.00 dBm ΔMkr3 2.500 ms 0.19 dB Center 2.402000000 GHz #Res BW 1.0 MHz #Video BW 1.0 MHz Sweep 10.0 ms (1001 pts) 5 Marker Table <table><tr><th>Mode</th><th>Trace</th><th>Scale</th><th>X</th><th>Y</th><th>Function</th><th>Function Width</th><th>Function Value</th></tr><tr><td>1</td><td>N</td><td>1</td><td>t</td><td>170.0 μs</td><td>-49.32 dBm</td><td></td><td></td></tr><tr><td>2</td><td>Δ1</td><td>1</td><td>t (Δ)</td><td>1.660 ms (Δ)</td><td>-4.34 dB</td><td></td><td></td></tr><tr><td>3</td><td>Δ1</td><td>1</td><td>t (Δ)</td><td>2.500 ms (Δ)</td><td>0.19 dB</td><td></td><td></td></tr><tr><td>4</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>5</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>6</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table> May 29, 2025 12:43:07 PM	Mode	Trace	Scale	X	Y	Function	Function Width	Function Value	1	N	1	t	170.0 μs	-49.32 dBm			2	Δ1	1	t (Δ)	1.660 ms (Δ)	-4.34 dB			3	Δ1	1	t (Δ)	2.500 ms (Δ)	0.19 dB			4								5								6							
Mode	Trace	Scale	X	Y	Function	Function Width	Function Value																																																		
1	N	1	t	170.0 μs	-49.32 dBm																																																				
2	Δ1	1	t (Δ)	1.660 ms (Δ)	-4.34 dB																																																				
3	Δ1	1	t (Δ)	2.500 ms (Δ)	0.19 dB																																																				
4																																																									
5																																																									
6																																																									
DH5	Spectrum Analyzer 1 + KEYSIGHT Input: RF Coupling: AC Align: Off Input Z: 50 Ω Corr: CCorr Freq Ref: Int (S) Attain: 30 dB μW Path: Standard PNO: Fast Gate: Off IF Gain: Low Sig Track: Off Avg Type: Log-Power Trig: Free Run 1 2 3 4 5 6 WWW WWW P N N N N N Center Frequency 2.402000000 GHz Span 0.00000000 Hz Swept Span Zero Span Full Span Start Freq 2.402000000 GHz Stop Freq 2.402000000 GHz AUTO TUNE CF Step 1.000000 MHz Auto Man Freq Offset 0 Hz X Axis Scale Log Lin Settings 1 Spectrum Scale/Div 10 dB Ref Level 20.00 dBm ΔMkr3 3.735 ms -3.22 dB Center 2.402000000 GHz #Res BW 1.0 MHz #Video BW 1.0 MHz Sweep 15.0 ms (1001 pts) 5 Marker Table <table><tr><th>Mode</th><th>Trace</th><th>Scale</th><th>X</th><th>Y</th><th>Function</th><th>Function Width</th><th>Function Value</th></tr><tr><td>1</td><td>N</td><td>1</td><td>t</td><td>210.0 μs</td><td>-51.40 dBm</td><td></td><td></td></tr><tr><td>2</td><td>Δ1</td><td>1</td><td>t (Δ)</td><td>2.925 ms (Δ)</td><td>-1.63 dB</td><td></td><td></td></tr><tr><td>3</td><td>Δ1</td><td>1</td><td>t (Δ)</td><td>3.735 ms (Δ)</td><td>-3.22 dB</td><td></td><td></td></tr><tr><td>4</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>5</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>6</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table> May 29, 2025 12:57:30 PM	Mode	Trace	Scale	X	Y	Function	Function Width	Function Value	1	N	1	t	210.0 μs	-51.40 dBm			2	Δ1	1	t (Δ)	2.925 ms (Δ)	-1.63 dB			3	Δ1	1	t (Δ)	3.735 ms (Δ)	-3.22 dB			4								5								6							
Mode	Trace	Scale	X	Y	Function	Function Width	Function Value																																																		
1	N	1	t	210.0 μs	-51.40 dBm																																																				
2	Δ1	1	t (Δ)	2.925 ms (Δ)	-1.63 dB																																																				
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4																																																									
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BT_π/4-DQPSK

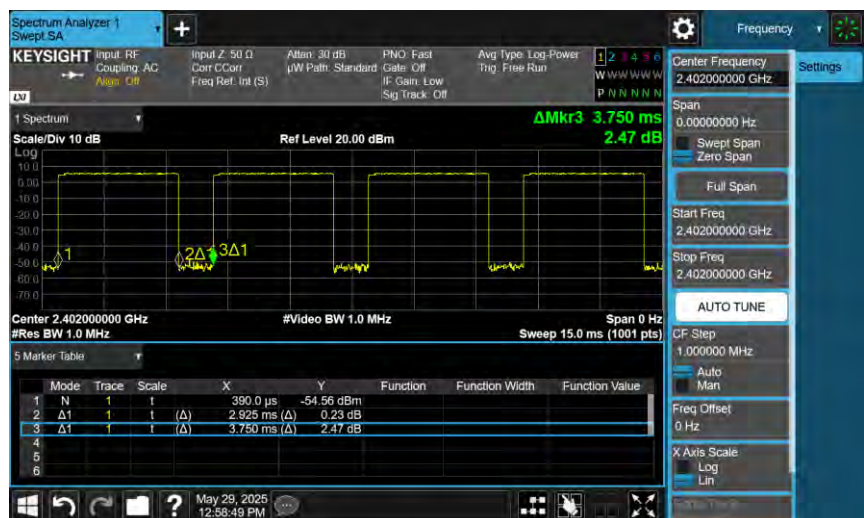
2DH1



2DH3

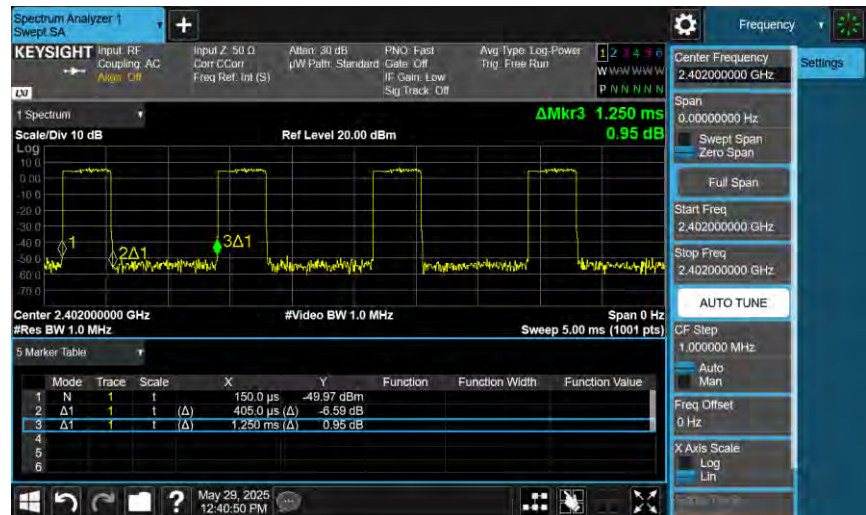


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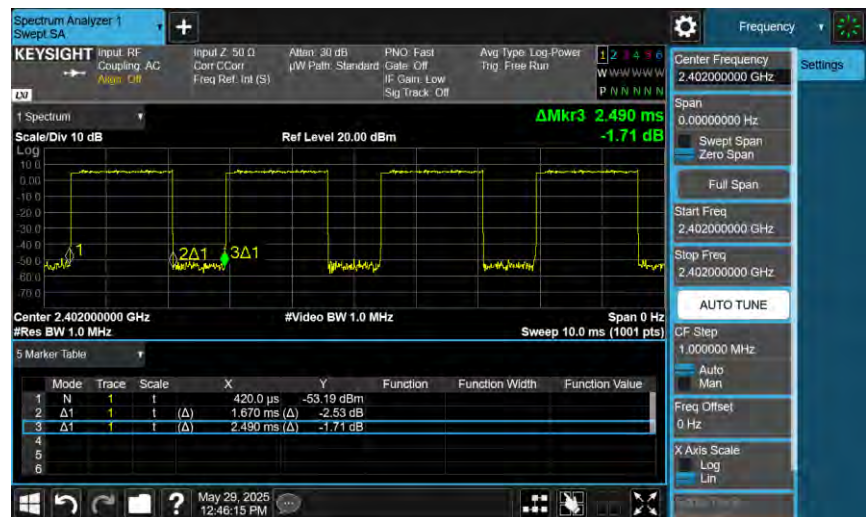


BT_8DPSK

3DH1



3DH3



3DH5

