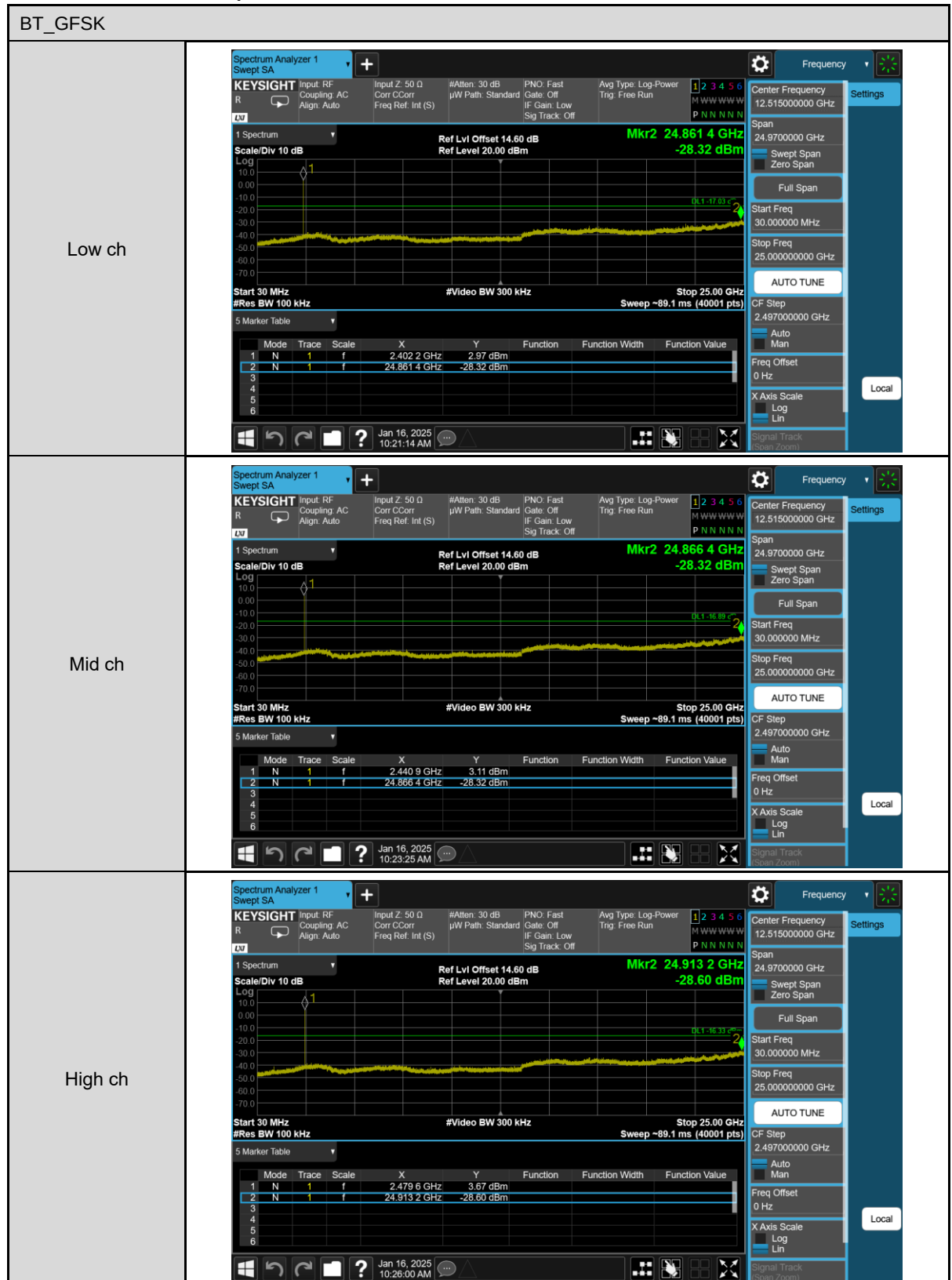


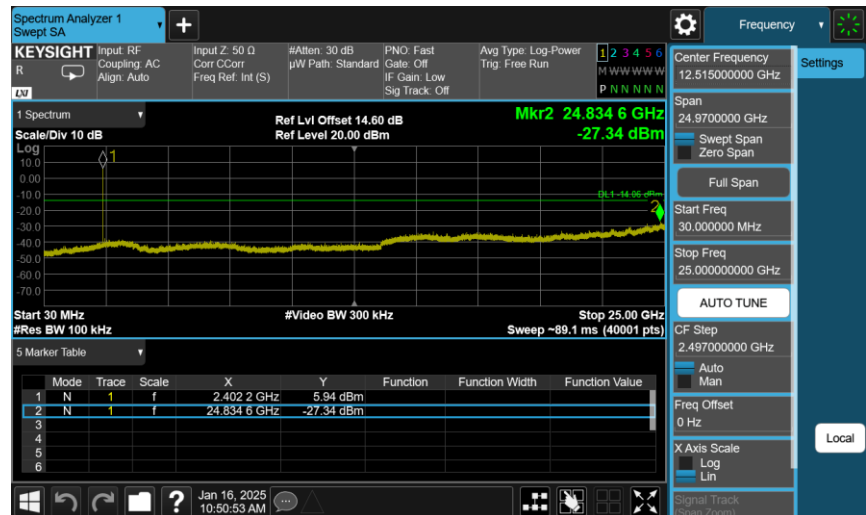
Appendix B. Test Plots

Out of Band Conducted Spurious Emission

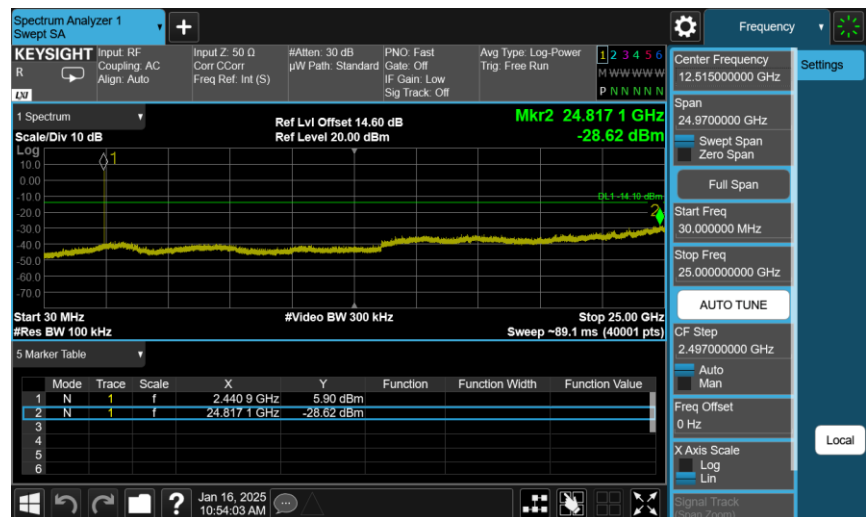


BT_8DPSK

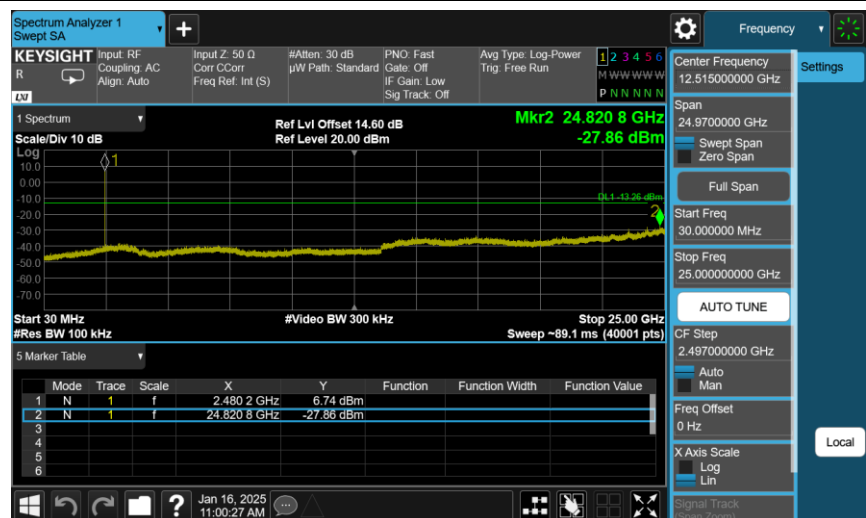
Low ch



Mid ch



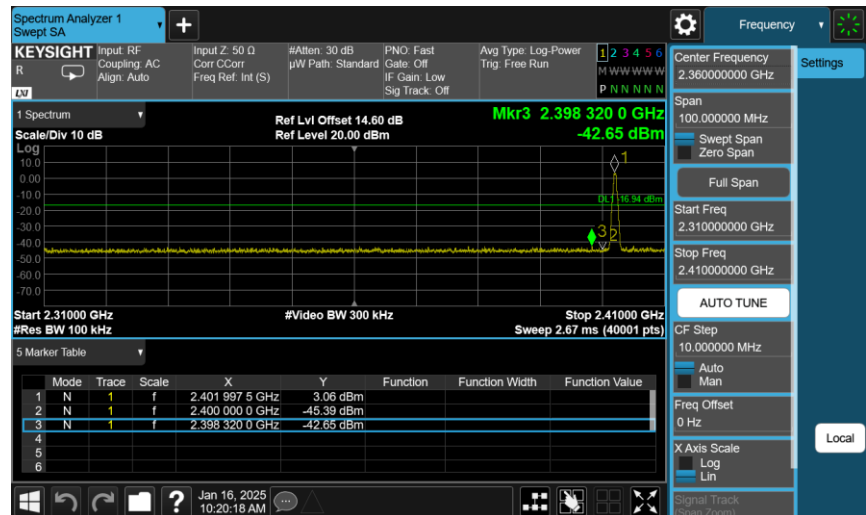
High ch



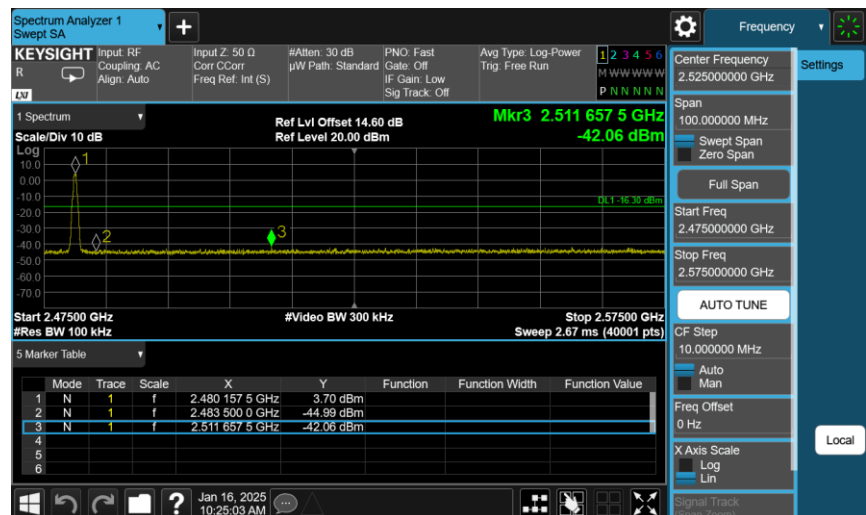
Conducted Band Edge

BT_GFSK_Non-Hopping

Low ch

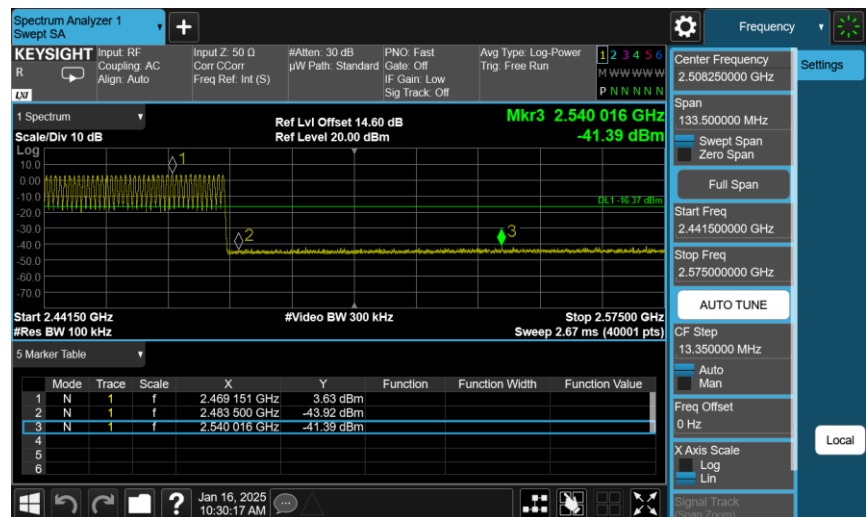
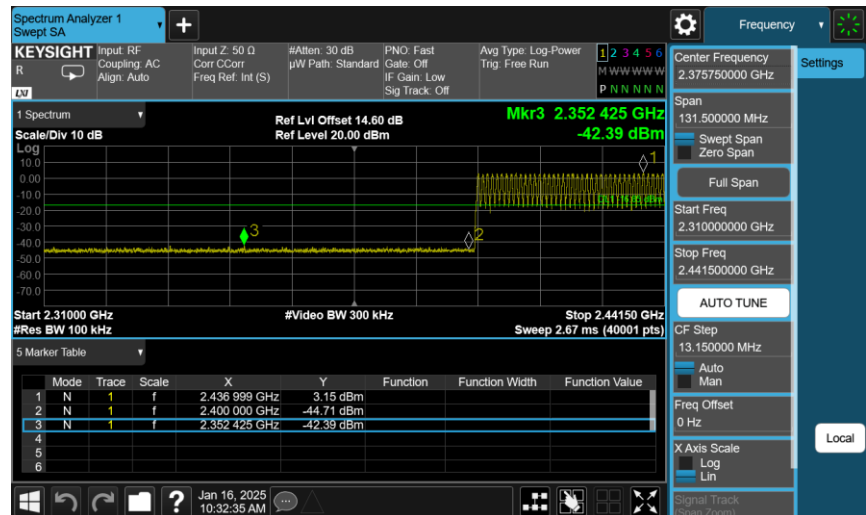


High ch



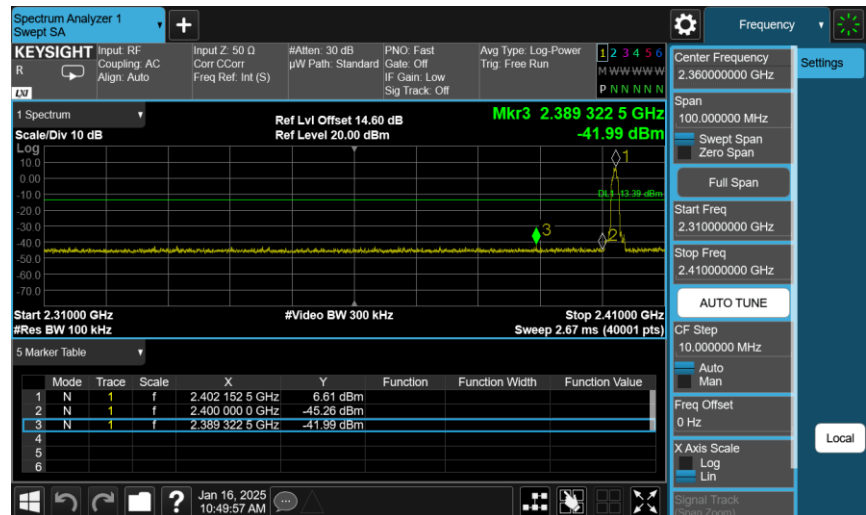
BT_GFSK_Hopping

Low ch-High ch

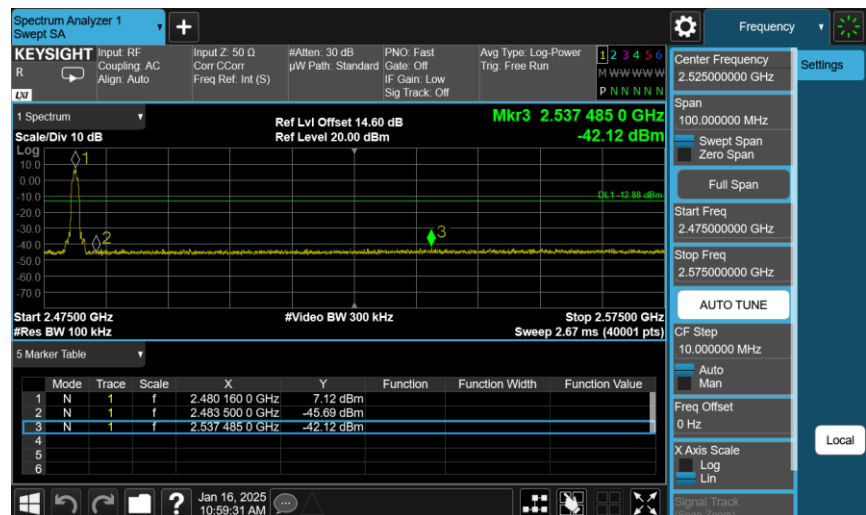


BT_8DPSK _Non-Hopping

Low ch

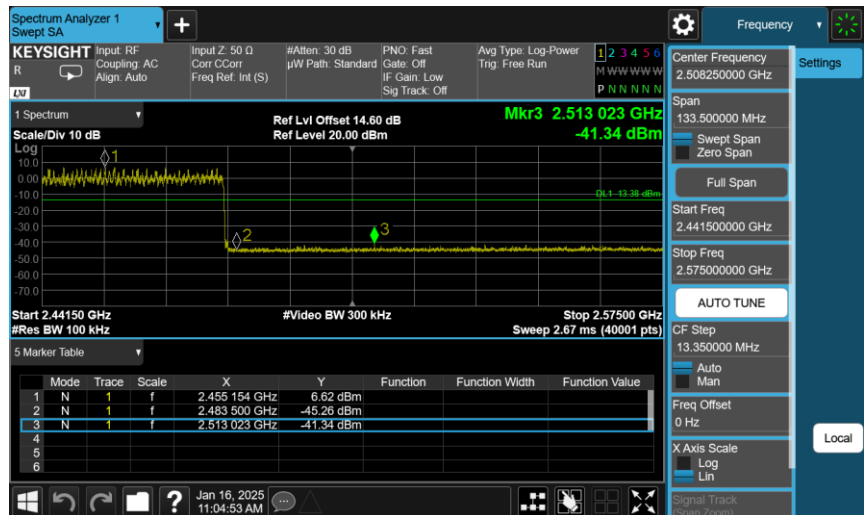
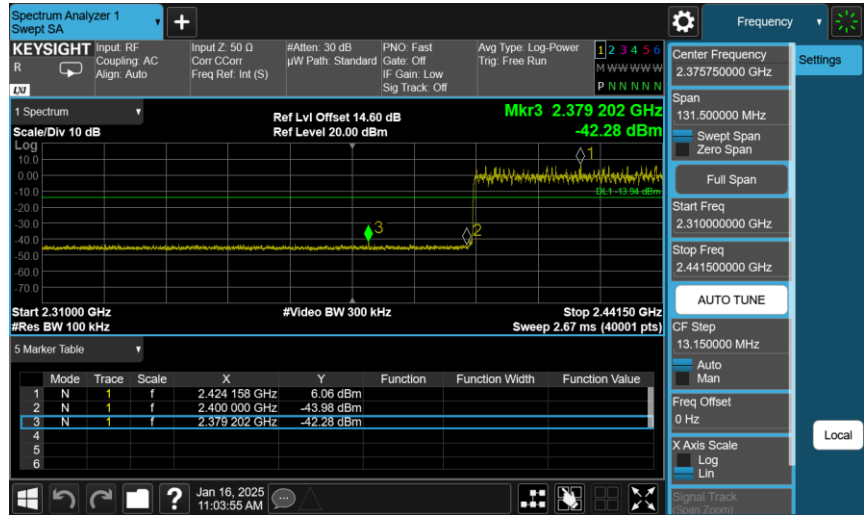


High ch



BT_8DPSK_Hopping

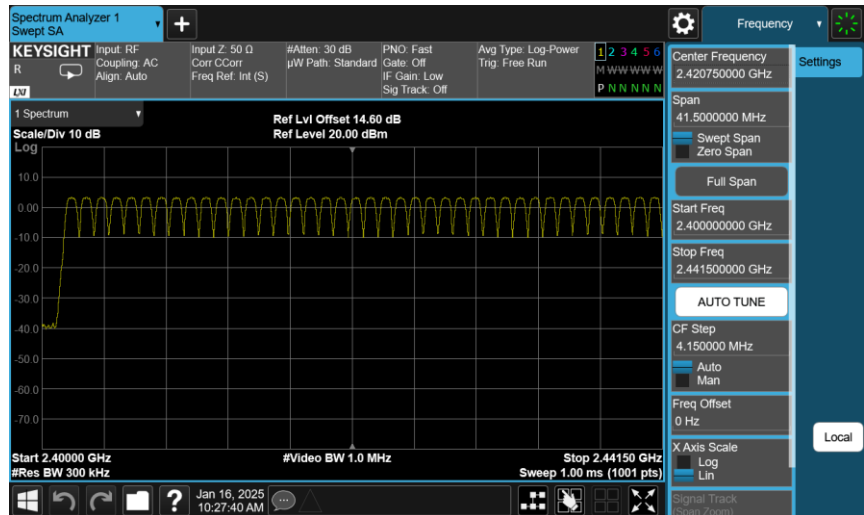
Low ch-High ch



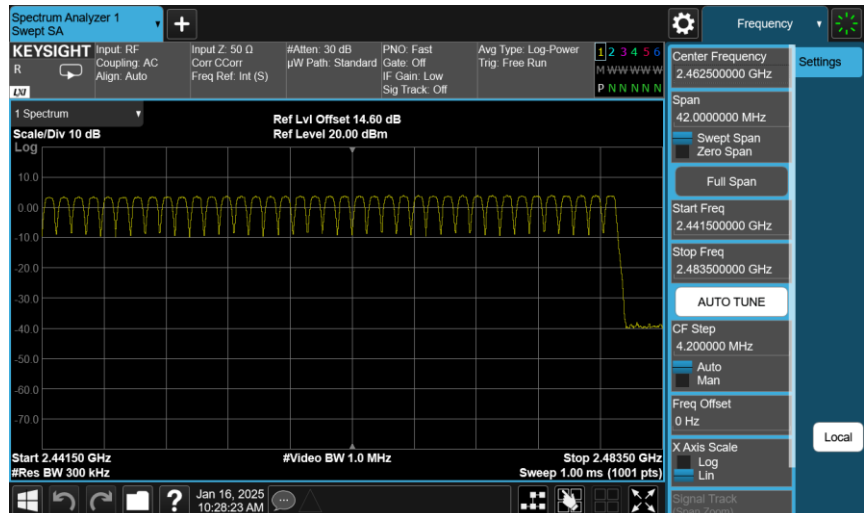
Number of Hopping

BT_GFSK

CH00 - CH39

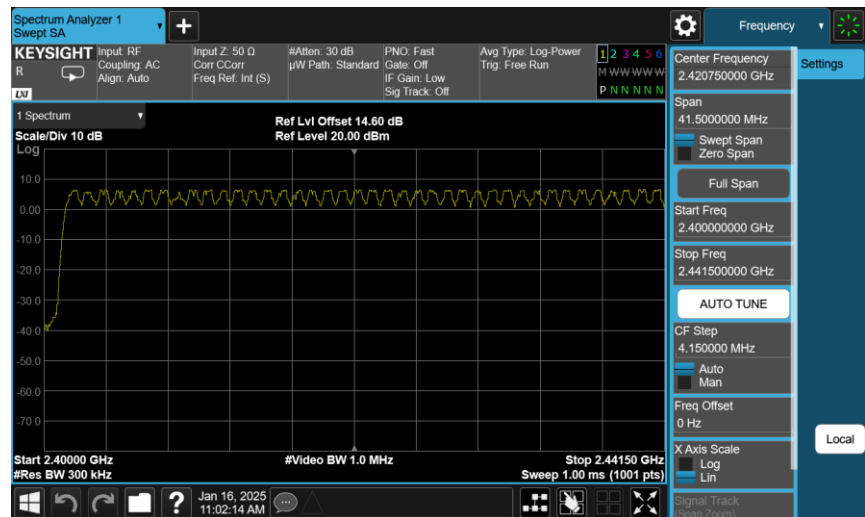


CH39- CH78

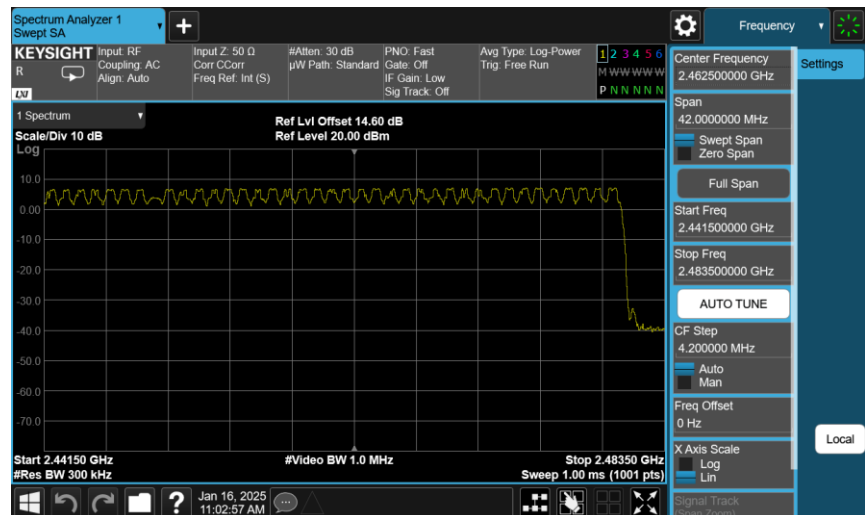


BT_8DPSK

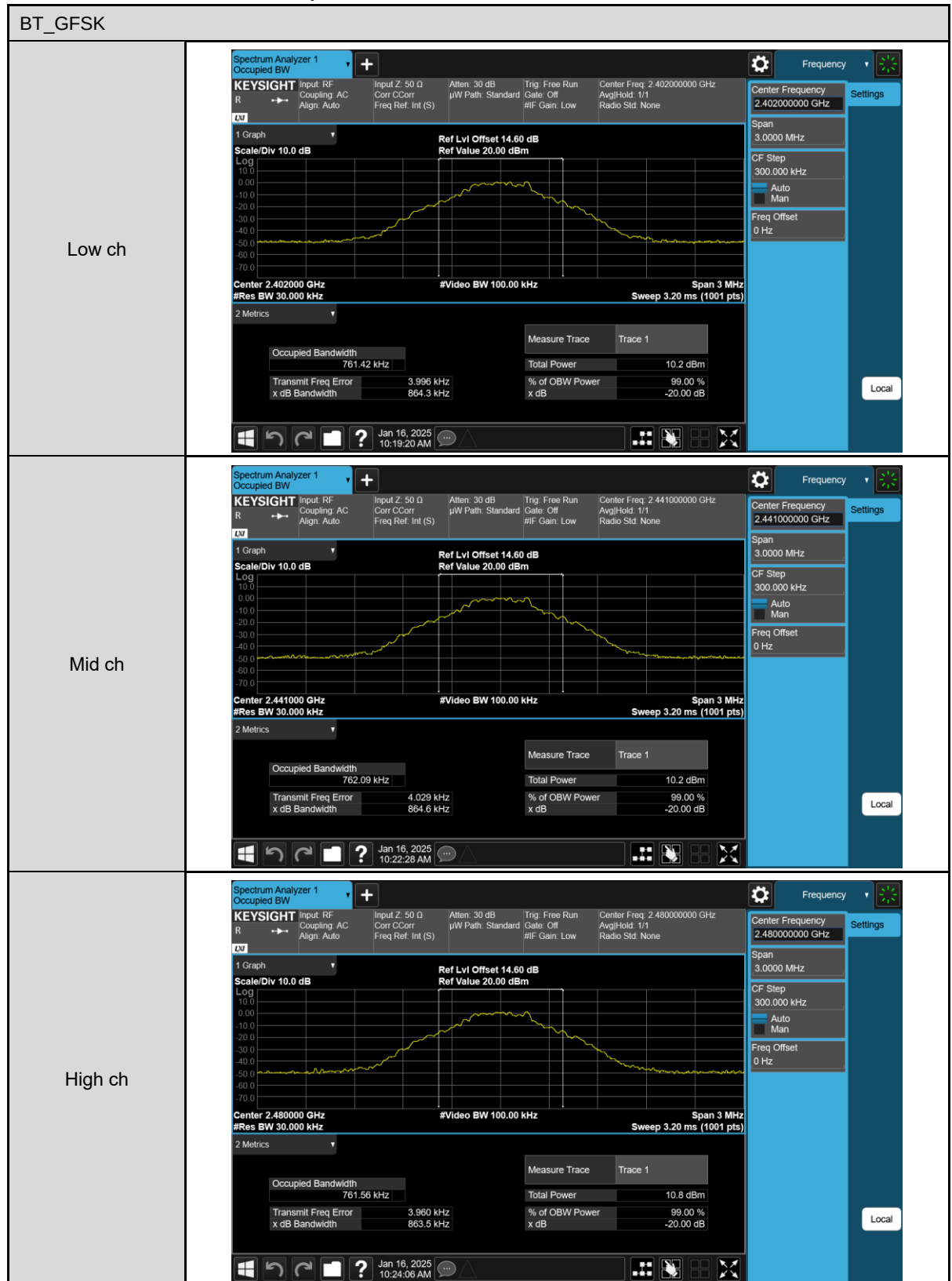
CH00 - CH39



CH39- CH78

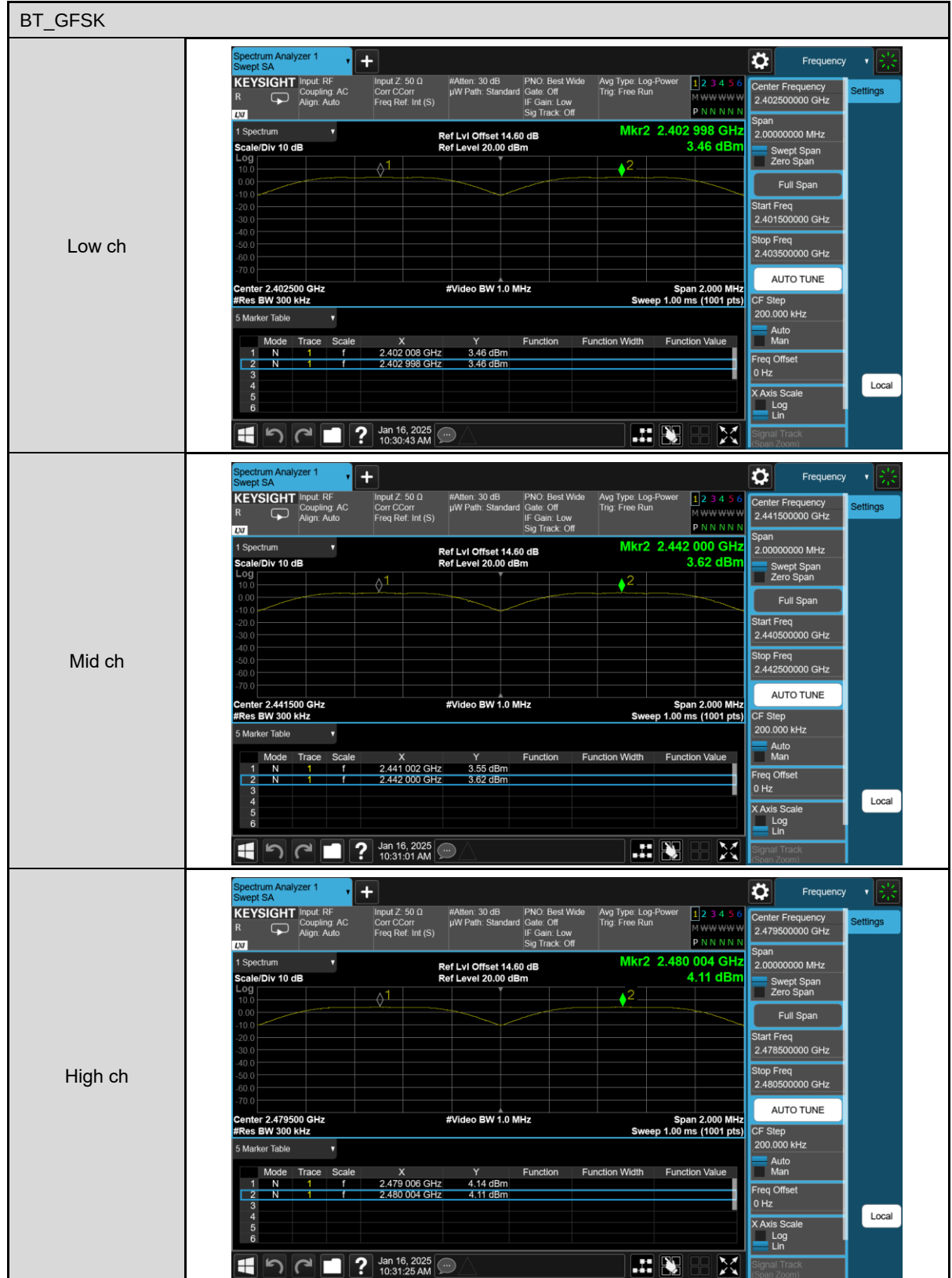


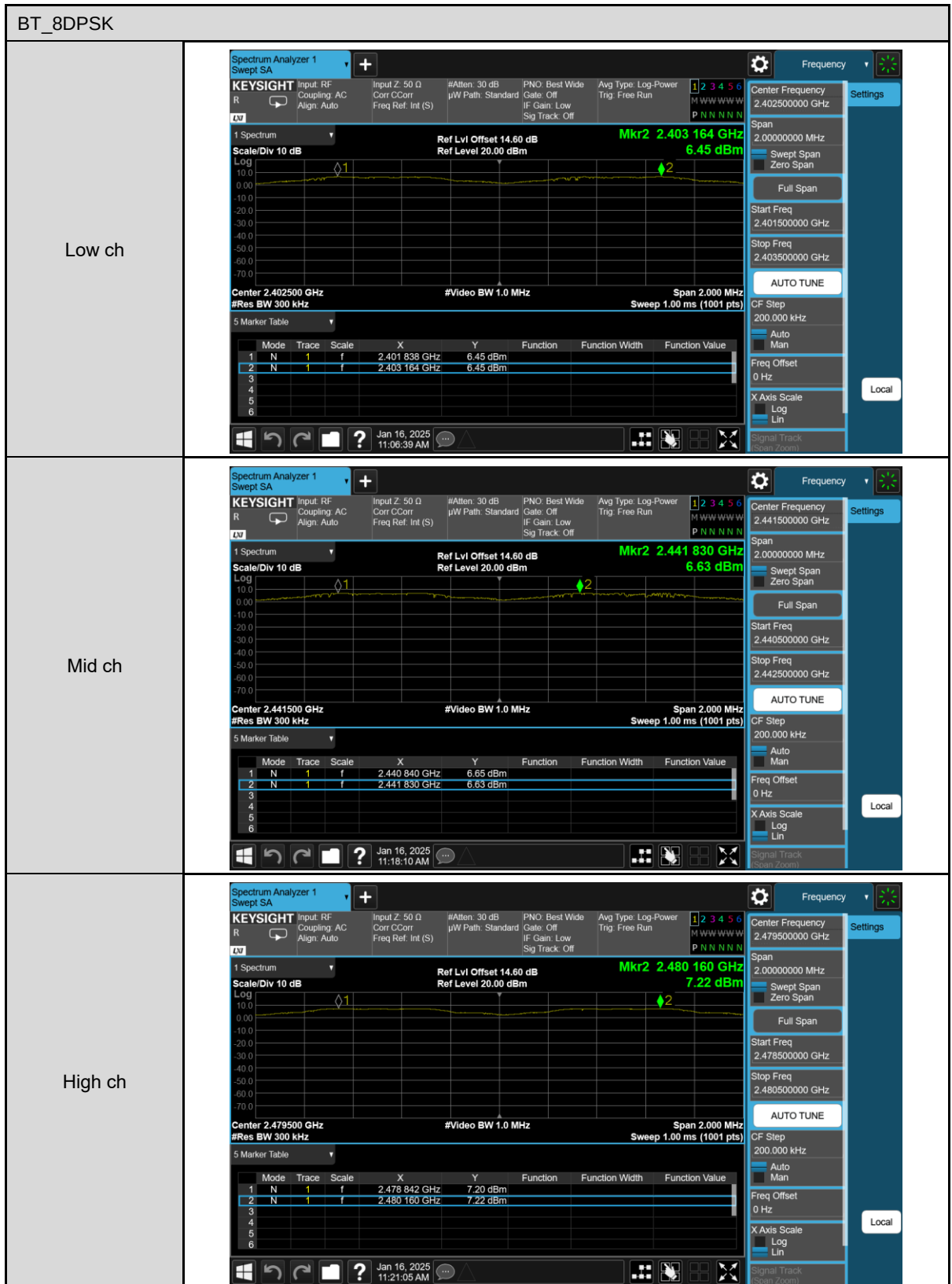
20 dB RF Bandwidth & 99 % Occupied Bandwidth





Carrier Frequency Separation



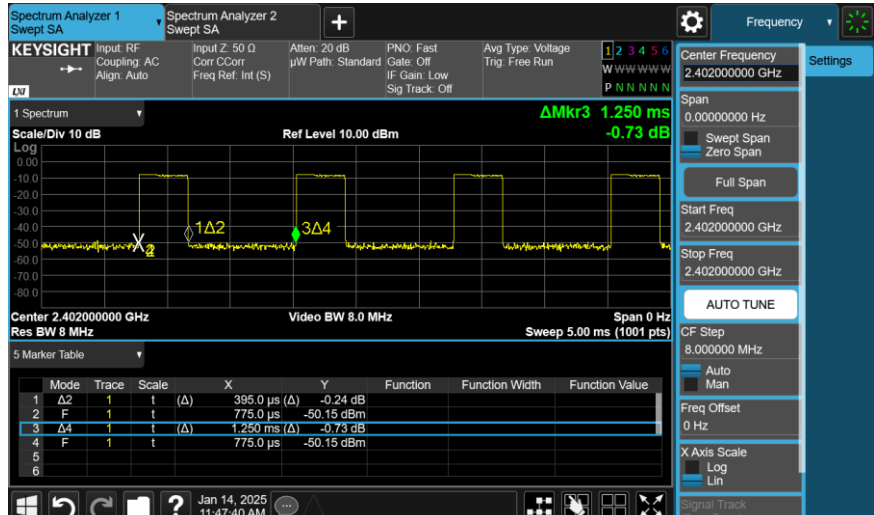


Time of Occupancy (Dwell Time)

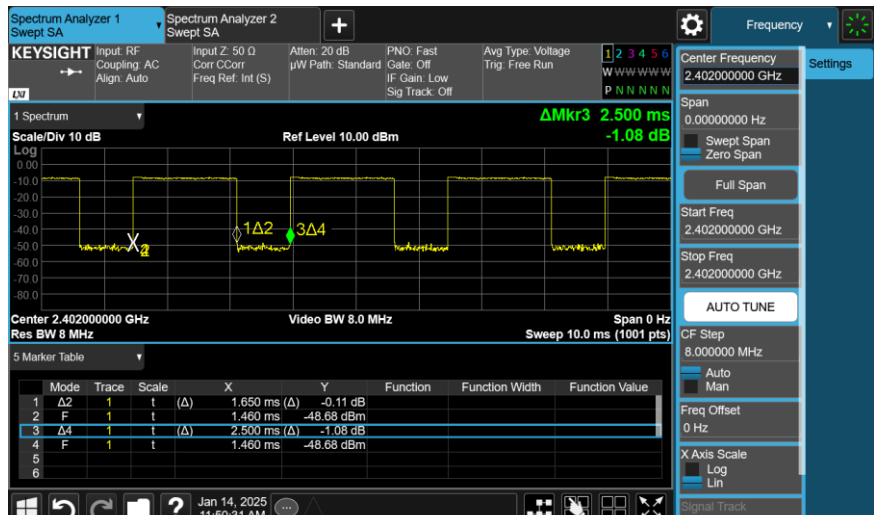
BT_GFSK																																																									
DH1	Spectrum Analyzer 1 Sweep SA KEYSIGHT Input RF Coupling AC Align Auto Spectrum Analyzer 2 Sweep SA + Attenuation 20 dB PNO: Fast Gate: Off IF Gain: Low Sig Track: Off Avg Type: Voltage Trig: Free Run 1 2 3 4 5 6 WWW WWW W P N N N N N Center Frequency 2.402000000 GHz Span 0.00000000 Hz Sweep Span Zero Span Full Span Start Freq 2.402000000 GHz Stop Freq 2.402000000 GHz AUTO TUNE CF Step 8.000000 MHz Auto Man Freq Offset 0 Hz X Axis Scale Log Lin Signal Track Settings 1 Spectrum Scale/Div 10 dB Ref Level 10.00 dBm ΔMkr3 1.250 ms -0.08 dB Center 2.402000000 GHz Video BW 8.0 MHz Span 0 Hz 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>Δ2</td><td>1</td><td>t</td><td>(Δ)</td><td>390.0 μs (Δ)</td><td>2.77 dB</td><td></td></tr><tr><td>2</td><td>F</td><td>1</td><td>t</td><td></td><td>610.8 μs</td><td>-53.35 dBm</td><td></td></tr><tr><td>3</td><td>Δ4</td><td>1</td><td>t</td><td>(Δ)</td><td>1.250 ms (Δ)</td><td>-0.08 dB</td><td></td></tr><tr><td>4</td><td>F</td><td>1</td><td>t</td><td></td><td>610.8 μs</td><td>-53.35 dBm</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> Jan 14, 2025 11:16:20 AM	Mode	Trace	Scale	X	Y	Function	Function Width	Function Value	1	Δ2	1	t	(Δ)	390.0 μs (Δ)	2.77 dB		2	F	1	t		610.8 μs	-53.35 dBm		3	Δ4	1	t	(Δ)	1.250 ms (Δ)	-0.08 dB		4	F	1	t		610.8 μs	-53.35 dBm		5								6							
Mode	Trace	Scale	X	Y	Function	Function Width	Function Value																																																		
1	Δ2	1	t	(Δ)	390.0 μs (Δ)	2.77 dB																																																			
2	F	1	t		610.8 μs	-53.35 dBm																																																			
3	Δ4	1	t	(Δ)	1.250 ms (Δ)	-0.08 dB																																																			
4	F	1	t		610.8 μs	-53.35 dBm																																																			
5																																																									
6																																																									
DH3	Spectrum Analyzer 1 Sweep SA KEYSIGHT Input RF Coupling AC Align Auto Spectrum Analyzer 2 Sweep SA + Attenuation 20 dB PNO: Fast Gate: Off IF Gain: Low Sig Track: Off Avg Type: Voltage Trig: Free Run 1 2 3 4 5 6 WWW WWW W P N N N N N Center Frequency 2.402000000 GHz Span 0.00000000 Hz Sweep Span Zero Span Full Span Start Freq 2.402000000 GHz Stop Freq 2.402000000 GHz AUTO TUNE CF Step 8.000000 MHz Auto Man Freq Offset 0 Hz X Axis Scale Log Lin Signal Track Settings 1 Spectrum Scale/Div 10 dB Ref Level 10.00 dBm ΔMkr3 2.501 ms -0.71 dB Center 2.402000000 GHz Video BW 8.0 MHz Span 0 Hz Sweep 7.53 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>Δ2</td><td>1</td><td>t</td><td>(Δ)</td><td>1.650 ms (Δ)</td><td>-2.51 dB</td><td></td></tr><tr><td>2</td><td>F</td><td>1</td><td>t</td><td></td><td>352.9 μs</td><td>-49.00 dBm</td><td></td></tr><tr><td>3</td><td>Δ4</td><td>1</td><td>t</td><td>(Δ)</td><td>2.501 ms (Δ)</td><td>-0.71 dB</td><td></td></tr><tr><td>4</td><td>F</td><td>1</td><td>t</td><td></td><td>352.9 μs</td><td>-49.00 dBm</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> Jan 14, 2025 11:38:19 AM	Mode	Trace	Scale	X	Y	Function	Function Width	Function Value	1	Δ2	1	t	(Δ)	1.650 ms (Δ)	-2.51 dB		2	F	1	t		352.9 μs	-49.00 dBm		3	Δ4	1	t	(Δ)	2.501 ms (Δ)	-0.71 dB		4	F	1	t		352.9 μs	-49.00 dBm		5								6							
Mode	Trace	Scale	X	Y	Function	Function Width	Function Value																																																		
1	Δ2	1	t	(Δ)	1.650 ms (Δ)	-2.51 dB																																																			
2	F	1	t		352.9 μs	-49.00 dBm																																																			
3	Δ4	1	t	(Δ)	2.501 ms (Δ)	-0.71 dB																																																			
4	F	1	t		352.9 μs	-49.00 dBm																																																			
5																																																									
6																																																									
DH5	Spectrum Analyzer 1 Sweep SA KEYSIGHT Input RF Coupling AC Align Auto Spectrum Analyzer 2 Sweep SA + Attenuation 20 dB PNO: Fast Gate: Off IF Gain: Low Sig Track: Off Avg Type: Voltage Trig: Free Run 1 2 3 4 5 6 WWW WWW W P N N N N N Center Frequency 2.402000000 GHz Span 0.00000000 Hz Sweep Span Zero Span Full Span Start Freq 2.402000000 GHz Stop Freq 2.402000000 GHz AUTO TUNE CF Step 8.000000 MHz Auto Man Freq Offset 0 Hz X Axis Scale Log Lin Signal Track Settings 1 Spectrum Scale/Div 10 dB Ref Level 10.00 dBm ΔMkr3 3.750 ms -0.03 dB Center 2.402000000 GHz Video BW 8.0 MHz Span 0 Hz 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>Δ2</td><td>1</td><td>t</td><td>(Δ)</td><td>2.925 ms (Δ)</td><td>1.70 dB</td><td></td></tr><tr><td>2</td><td>F</td><td>1</td><td>t</td><td></td><td>2.303 ms</td><td>-51.99 dBm</td><td></td></tr><tr><td>3</td><td>Δ4</td><td>1</td><td>t</td><td>(Δ)</td><td>3.750 ms (Δ)</td><td>-0.03 dB</td><td></td></tr><tr><td>4</td><td>F</td><td>1</td><td>t</td><td></td><td>2.303 ms</td><td>-51.99 dBm</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> Jan 14, 2025 11:39:38 AM	Mode	Trace	Scale	X	Y	Function	Function Width	Function Value	1	Δ2	1	t	(Δ)	2.925 ms (Δ)	1.70 dB		2	F	1	t		2.303 ms	-51.99 dBm		3	Δ4	1	t	(Δ)	3.750 ms (Δ)	-0.03 dB		4	F	1	t		2.303 ms	-51.99 dBm		5								6							
Mode	Trace	Scale	X	Y	Function	Function Width	Function Value																																																		
1	Δ2	1	t	(Δ)	2.925 ms (Δ)	1.70 dB																																																			
2	F	1	t		2.303 ms	-51.99 dBm																																																			
3	Δ4	1	t	(Δ)	3.750 ms (Δ)	-0.03 dB																																																			
4	F	1	t		2.303 ms	-51.99 dBm																																																			
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BT_π/4-DQPSK

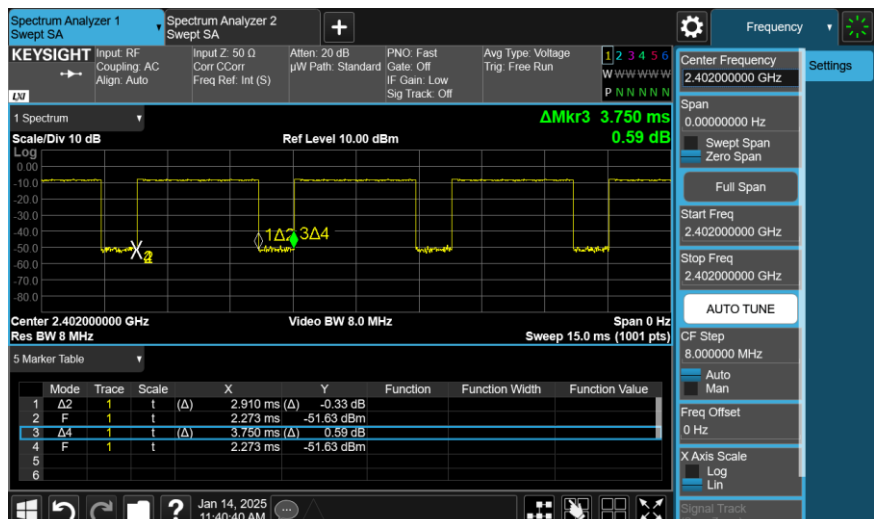
2DH1



2DH3

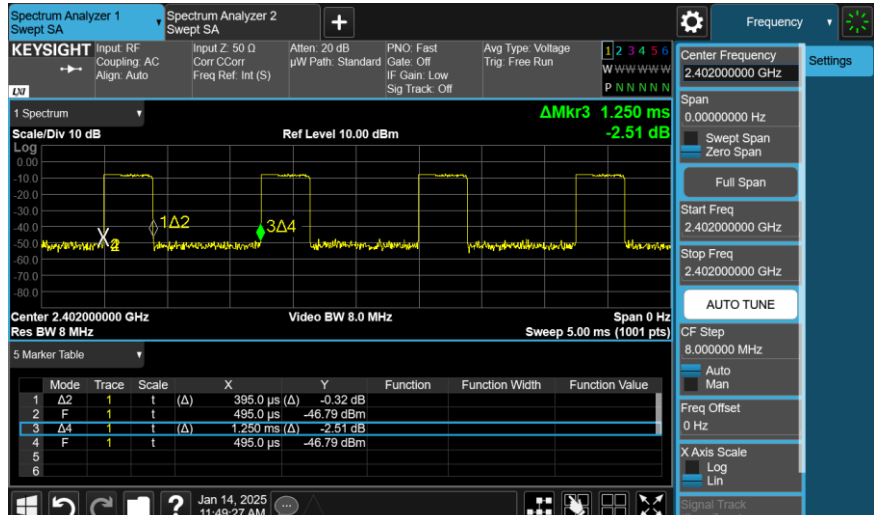


2DH5

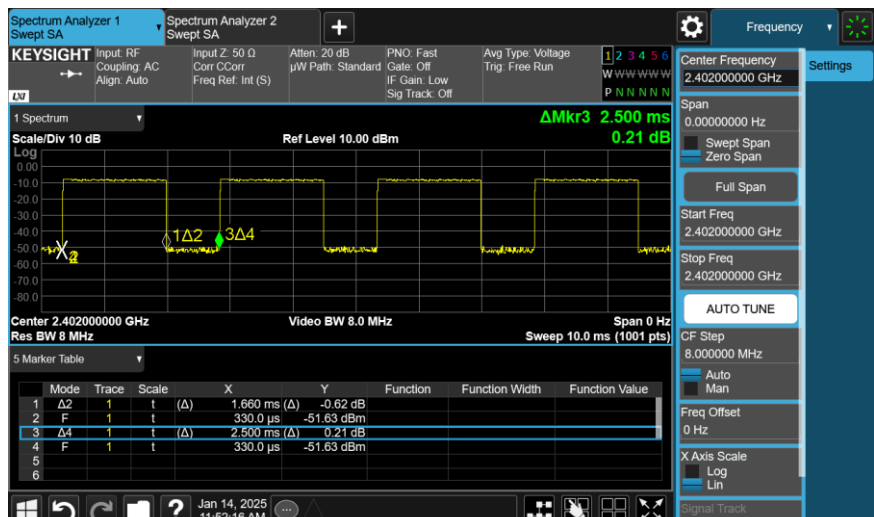


BT_8DPSK

3DH1



3DH3



3DH5

