

Appendix A: Effective (Isotropic) Radiated Power Output Data for NB1

Test Result

Band	OpMode	SCS	BW	Modulation	Channel	Tones	Conducted POWER(dBm)	ERP (dBm)	Verdict
Band 85	Stand-Alone	3.75k Hz	0.18	QPSK	134004	1@0	22.26	21.06	PASS
Band 85	Stand-Alone	3.75k Hz	0.18	QPSK	134004	1@47	22.20	21	PASS
Band 85	Stand-Alone	3.75k Hz	0.18	BPSK	134004	1@0	22.12	20.92	PASS
Band 85	Stand-Alone	3.75k Hz	0.18	BPSK	134004	1@47	22.24	21.04	PASS
Band 85	Stand-Alone	3.75k Hz	0.18	QPSK	134092	1@0	22.29	21.09	PASS
Band 85	Stand-Alone	3.75k Hz	0.18	QPSK	134092	1@47	22.23	21.03	PASS
Band 85	Stand-Alone	3.75k Hz	0.18	BPSK	134092	1@0	22.27	21.07	PASS
Band 85	Stand-Alone	3.75k Hz	0.18	BPSK	134092	1@47	22.28	21.08	PASS
Band 85	Stand-Alone	3.75k Hz	0.18	QPSK	134180	1@0	22.39	21.19	PASS
Band 85	Stand-Alone	3.75k Hz	0.18	QPSK	134180	1@47	22.38	21.18	PASS
Band 85	Stand-Alone	3.75k Hz	0.18	BPSK	134180	1@0	22.38	21.18	PASS
Band 85	Stand-Alone	3.75k Hz	0.18	BPSK	134180	1@47	22.39	21.19	PASS
Band 85	Stand-Alone	15kHz	0.18	QPSK	134004	1@0	22.46	21.26	PASS
Band 85	Stand-Alone	15kHz	0.18	QPSK	134004	1@11	22.49	21.29	PASS
Band 85	Stand-Alone	15kHz	0.18	QPSK	134004	3@3	22.98	21.78	PASS
Band 85	Stand-Alone	15kHz	0.18	BPSK	134004	1@0	22.47	21.27	PASS
Band 85	Stand-Alone	15kHz	0.18	BPSK	134004	1@11	22.49	21.29	PASS

Band 85	Stand-Alone	15kHz	0.18	QPSK	134092	1@0	22.58	21.38	PASS
Band 85	Stand-Alone	15kHz	0.18	QPSK	134092	1@11	22.57	21.37	PASS
Band 85	Stand-Alone	15kHz	0.18	QPSK	134092	3@3	23.09	21.89	PASS
Band 85	Stand-Alone	15kHz	0.18	BPSK	134092	1@0	22.56	21.36	PASS
Band 85	Stand-Alone	15kHz	0.18	BPSK	134092	1@11	22.58	21.38	PASS
Band 85	Stand-Alone	15kHz	0.18	QPSK	134180	1@0	22.79	21.59	PASS
Band 85	Stand-Alone	15kHz	0.18	QPSK	134180	1@11	22.79	21.59	PASS
Band 85	Stand-Alone	15kHz	0.18	QPSK	134180	3@3	23.37	22.17	PASS
Band 85	Stand-Alone	15kHz	0.18	BPSK	134180	1@0	22.74	21.54	PASS
Band 85	Stand-Alone	15kHz	0.18	BPSK	134180	1@11	22.77	21.57	PASS

Appendix B: Peak-to-Average Ratio(CCDF) for NB1

Test Result

Band	OpMode	SCS	BW	Modulation	Channel	Tones	Result (dBm)	Limit (dBm)	Verdict
Band85	Stand-Alone	3.75kHz	0.18	QPSK	134092	1@0	4.73	<=13	PASS
Band85	Stand-Alone	3.75kHz	0.18	QPSK	134092	1@47	4.77	<=13	PASS
Band85	Stand-Alone	3.75kHz	0.18	BPSK	134092	1@0	4.86	<=13	PASS
Band85	Stand-Alone	3.75kHz	0.18	BPSK	134092	1@47	4.73	<=13	PASS
Band85	Stand-Alone	15kHz	0.18	QPSK	134092	1@0	6.02	<=13	PASS
Band85	Stand-Alone	15kHz	0.18	QPSK	134092	1@11	6.09	<=13	PASS
Band85	Stand-Alone	15kHz	0.18	QPSK	134092	3@3	11.67	<=13	PASS
Band85	Stand-Alone	15kHz	0.18	BPSK	134092	1@0	5.92	<=13	PASS
Band85	Stand-Alone	15kHz	0.18	BPSK	134092	1@11	5.97	<=13	PASS

Appendix C: Emission Bandwidth for NB1

Test Result

Band	OpMode	SCS	BW	Modulation	Channel	Tones	OBW(MHz)	EBW(MHz)	Verdict
Band85	Stand-Alone	3.75kHz	0.18	QPSK	134004	1@0	0.17566	0.1905	PASS
Band85	Stand-Alone	3.75kHz	0.18	BPSK	134004	1@0	0.17694	0.1942	PASS
Band85	Stand-Alone	3.75kHz	0.18	QPSK	134092	1@0	0.17651	0.1898	PASS
Band85	Stand-Alone	3.75kHz	0.18	BPSK	134092	1@0	0.17205	0.1876	PASS
Band85	Stand-Alone	3.75kHz	0.18	QPSK	134180	1@0	0.17524	0.1903	PASS
Band85	Stand-Alone	3.75kHz	0.18	BPSK	134180	1@0	0.17676	0.1902	PASS
Band85	Stand-Alone	15kHz	0.18	QPSK	134004	12@0	0.19544	0.2386	PASS
Band85	Stand-Alone	15kHz	0.18	BPSK	134004	12@0	0.17413	0.2395	PASS
Band85	Stand-Alone	15kHz	0.18	QPSK	134092	12@0	0.19943	0.2387	PASS
Band85	Stand-Alone	15kHz	0.18	BPSK	134092	12@0	0.19737	0.2240	PASS
Band85	Stand-Alone	15kHz	0.18	QPSK	134180	12@0	0.19783	0.2338	PASS
Band85	Stand-Alone	15kHz	0.18	BPSK	134180	12@0	0.19652	0.2344	PASS

The figure displays four screenshots of a Keysight Spectrum Analyzer, arranged in a 2x2 grid. Each screenshot shows the frequency response of a bandpass filter at a different center frequency. The top row shows the filter's response at 698.20000 MHz, and the bottom row shows it at 707.00000 MHz. Each plot includes a graph of power vs. frequency, a table of measured parameters (Occupied Bandwidth, Total Power, etc.), and a status bar with the date May 22, 2026.

Top Left Screenshot (698.20000 MHz):

- Center Freq: 698.20000 MHz
- #Video BW: 12.000 kHz
- Span: 400 kHz
- #Res BW: 3.0000 kHz
- #Sweep: 100 ms (1001 pts)
- Occupied Bandwidth: 175.66 kHz
- Total Power: 24.6 dBm
- Transmit Freq Error: -14.536 kHz
- x dB Bandwidth: 190.5 kHz

Top Right Screenshot (698.20000 MHz):

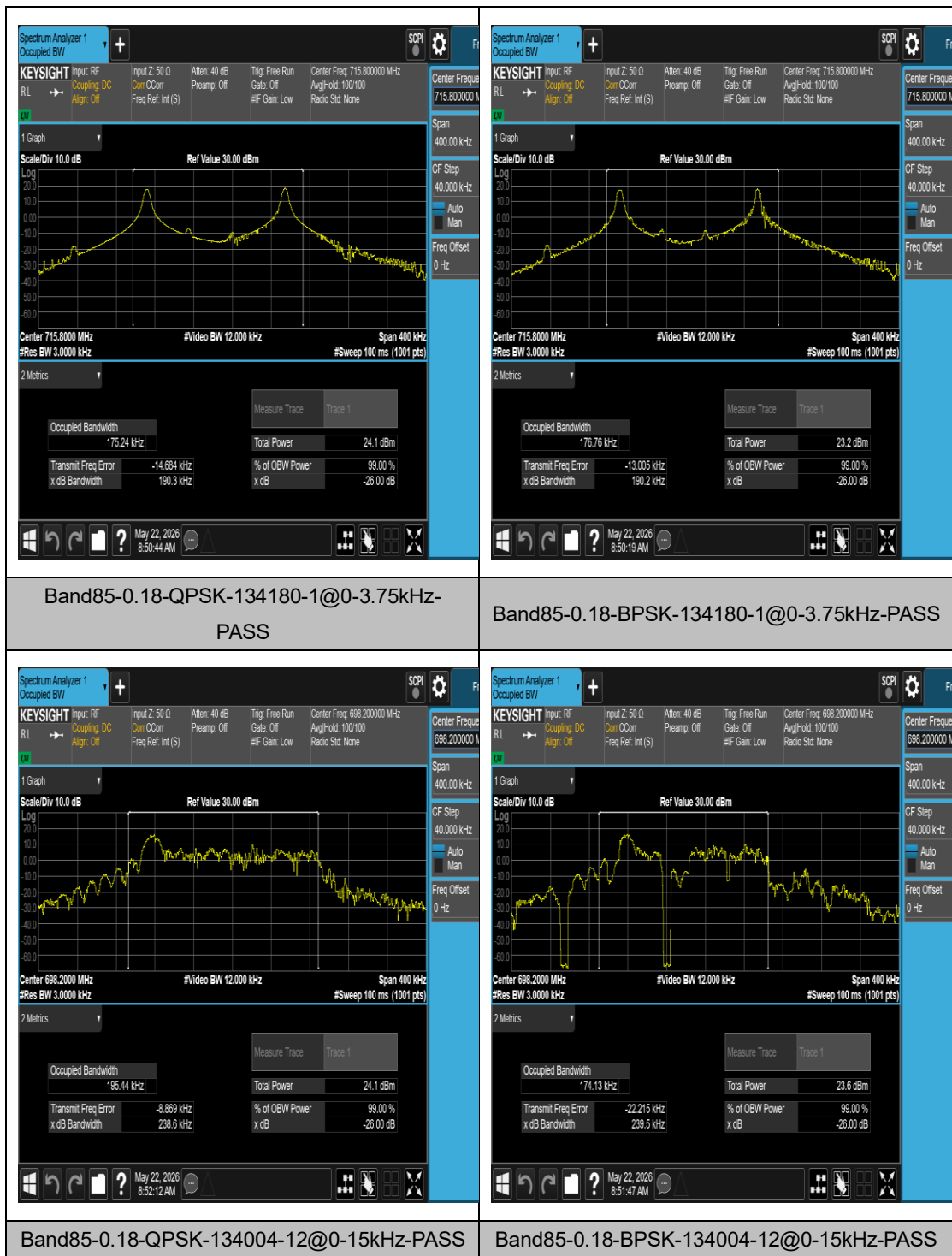
- Center Freq: 698.20000 MHz
- #Video BW: 12.000 kHz
- Span: 400 kHz
- #Res BW: 3.0000 kHz
- #Sweep: 100 ms (1001 pts)
- Occupied Bandwidth: 176.94 kHz
- Total Power: 23.8 dBm
- Transmit Freq Error: -12.860 kHz
- x dB Bandwidth: 194.2 kHz

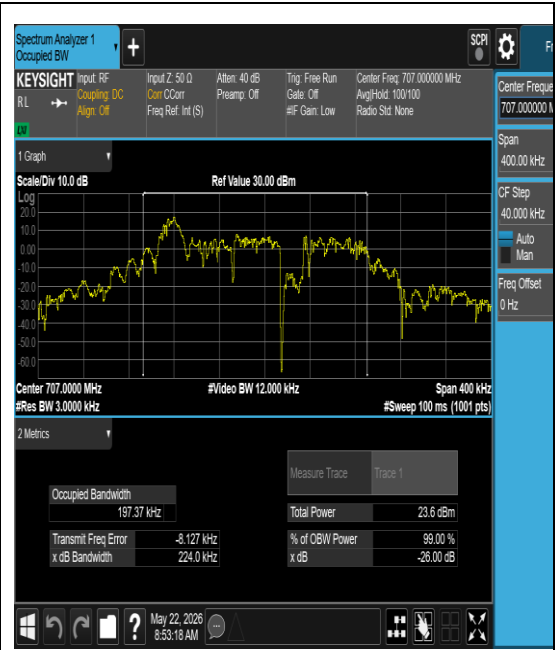
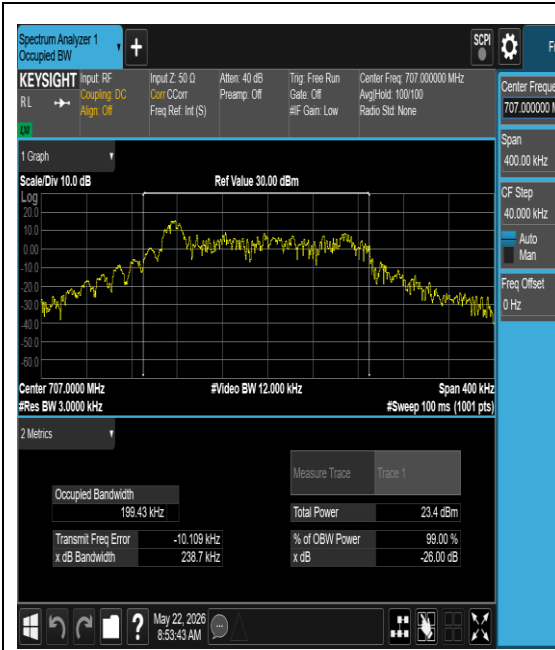
Bottom Left Screenshot (707.00000 MHz):

- Center Freq: 707.00000 MHz
- #Video BW: 12.000 kHz
- Span: 400 kHz
- #Res BW: 3.0000 kHz
- #Sweep: 100 ms (1001 pts)
- Occupied Bandwidth: 176.51 kHz
- Total Power: 24.2 dBm
- Transmit Freq Error: -14.254 kHz
- x dB Bandwidth: 189.8 kHz

Bottom Right Screenshot (707.00000 MHz):

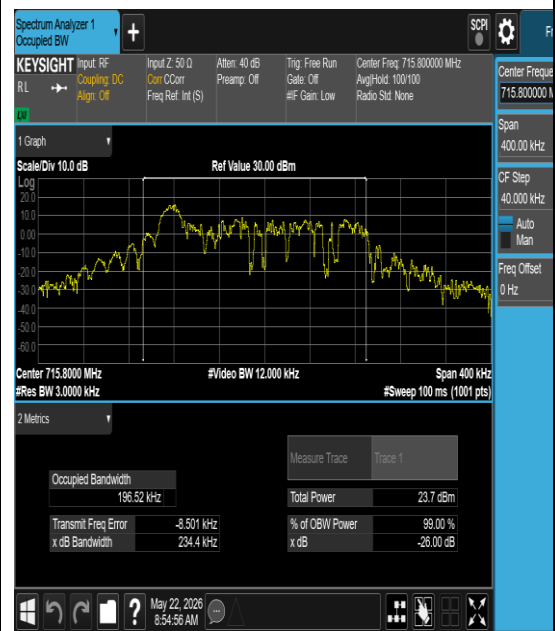
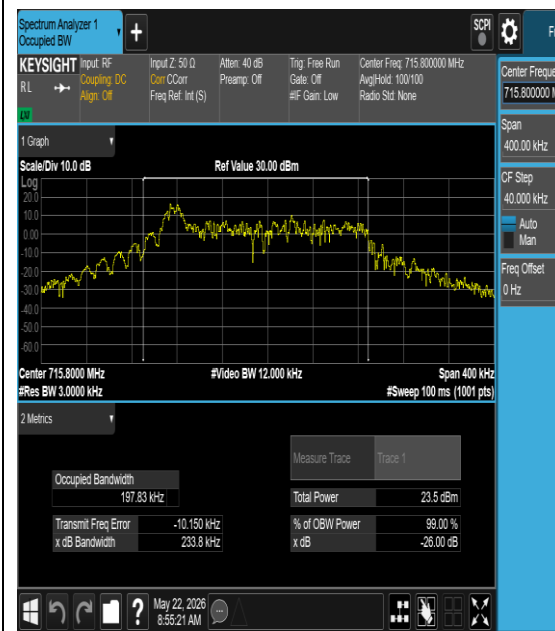
- Center Freq: 707.00000 MHz
- #Video BW: 12.000 kHz
- Span: 400 kHz
- #Res BW: 3.0000 kHz
- #Sweep: 100 ms (1001 pts)
- Occupied Bandwidth: 172.05 kHz
- Total Power: 24.1 dBm
- Transmit Freq Error: -14.724 kHz
- x dB Bandwidth: 187.6 kHz





Band85-0.18-QPSK-134092-12@0-15kHz-PASS

Band85-0.18-BPSK-134092-12@0-15kHz-PASS



Band85-0.18-QPSK-134180-12@0-15kHz-PASS

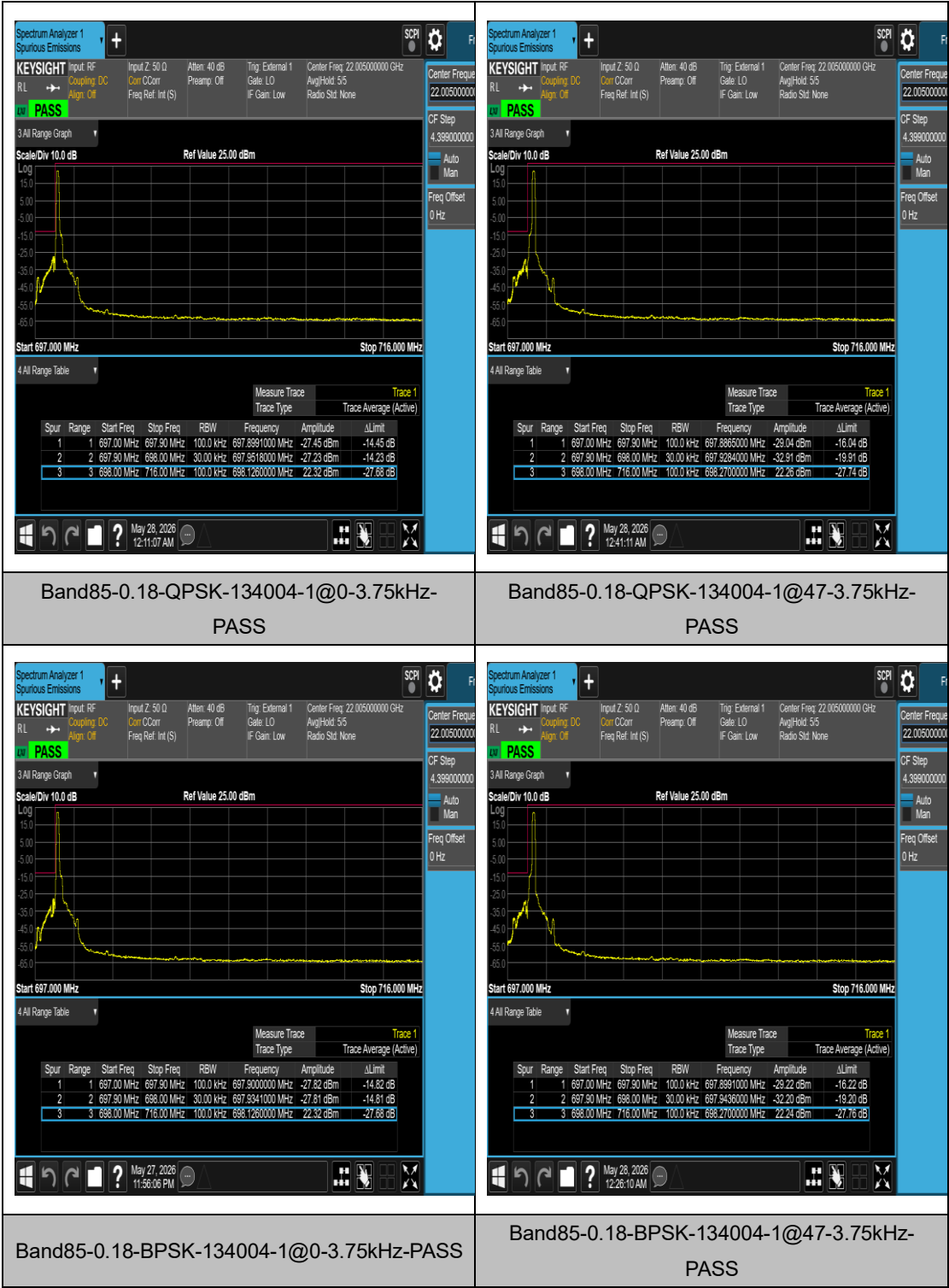
Band85-0.18-BPSK-134180-12@0-15kHz-PASS

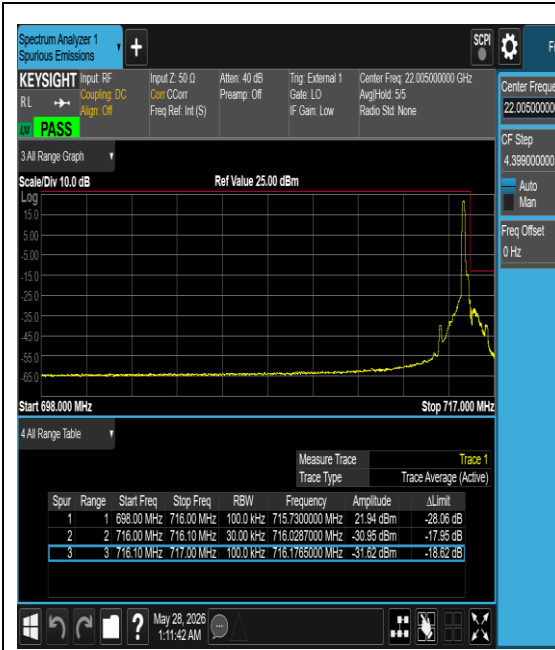
Appendix D: Band Edge for NB1

Test Result

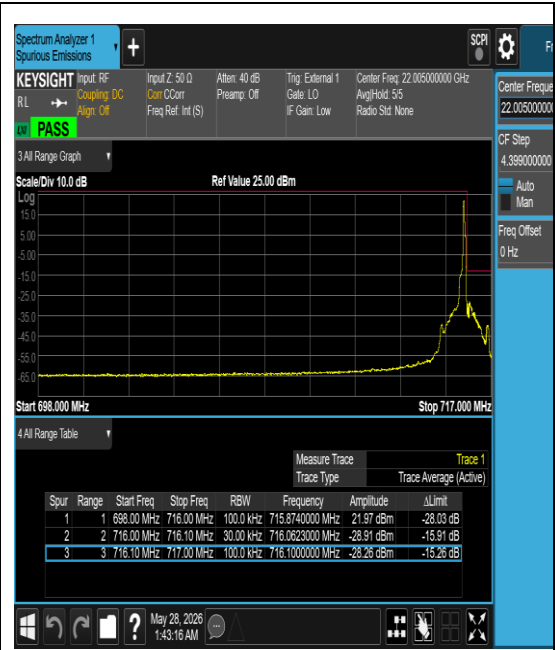
Band	OpMode	SCS	BW	Modulation	Channel	Tones	Result (dBm)	Verdict
Band85	Stand-Alone	3.75kHz	0.18	QPSK	134004	1@0	-27.23	PASS
Band85	Stand-Alone	3.75kHz	0.18	QPSK	134004	1@47	-29.04	PASS
Band85	Stand-Alone	3.75kHz	0.18	BPSK	134004	1@0	-27.81	PASS
Band85	Stand-Alone	3.75kHz	0.18	BPSK	134004	1@47	-29.22	PASS
Band85	Stand-Alone	3.75kHz	0.18	QPSK	134180	1@0	-30.95	PASS
Band85	Stand-Alone	3.75kHz	0.18	QPSK	134180	1@47	-28.26	PASS
Band85	Stand-Alone	3.75kHz	0.18	BPSK	134180	1@0	-32.17	PASS
Band85	Stand-Alone	3.75kHz	0.18	BPSK	134180	1@47	-27.27	PASS
Band85	Stand-Alone	15kHz	0.18	QPSK	134004	1@0	-24.41	PASS
Band85	Stand-Alone	15kHz	0.18	QPSK	134004	1@11	-30.93	PASS
Band85	Stand-Alone	15kHz	0.18	QPSK	134004	12@0	-23.41	PASS
Band85	Stand-Alone	15kHz	0.18	BPSK	134004	1@0	-27.84	PASS
Band85	Stand-Alone	15kHz	0.18	BPSK	134004	1@11	-31.05	PASS
Band85	Stand-Alone	15kHz	0.18	QPSK	134180	1@0	-31.32	PASS
Band85	Stand-Alone	15kHz	0.18	QPSK	134180	1@11	-24.57	PASS
Band85	Stand-Alone	15kHz	0.18	QPSK	134180	12@0	-22.77	PASS
Band85	Stand-Alone	15kHz	0.18	BPSK	134180	1@0	-31.71	PASS
Band85	Stand-Alone	15kHz	0.18	BPSK	134180	1@11	-23.80	PASS

Test Graphs

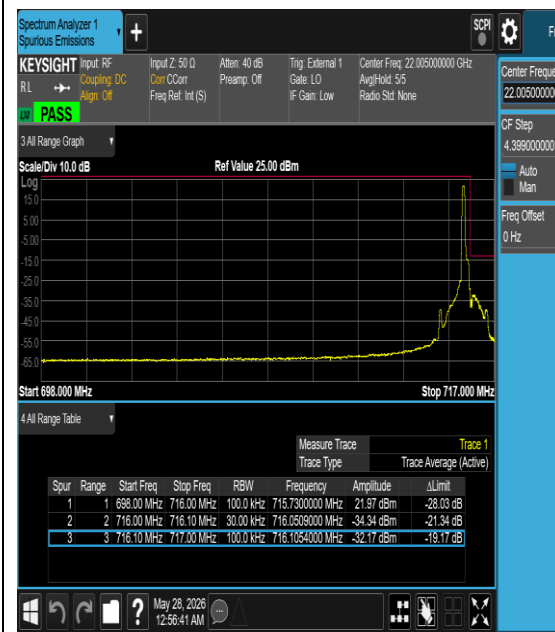




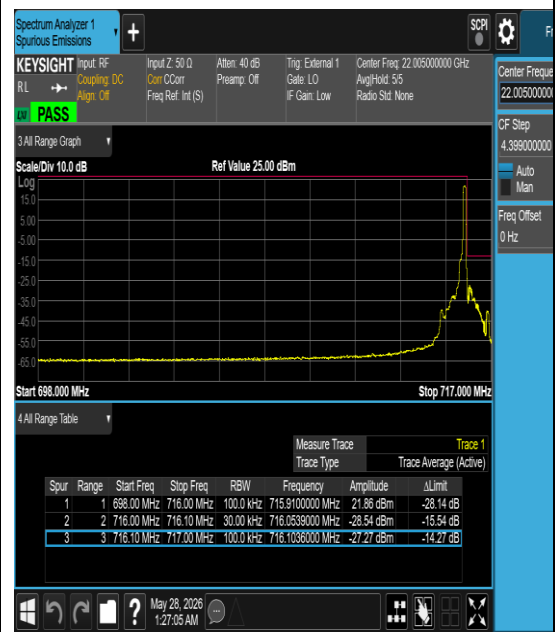
Band85-0.18-QPSK-134180-1@0-3.75kHz-
PASS



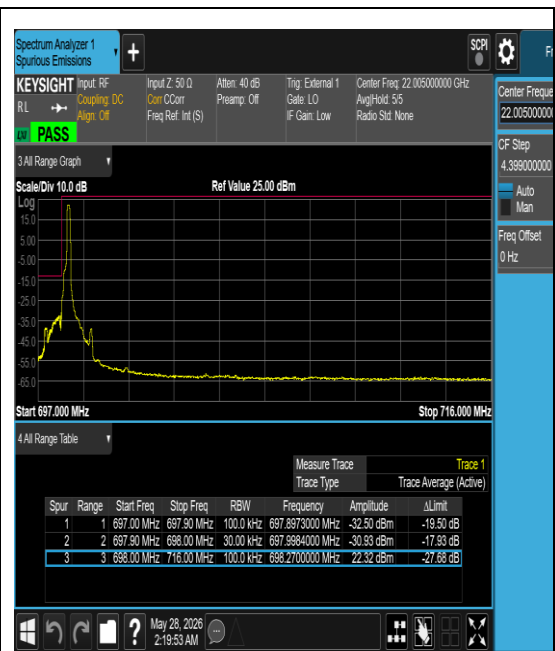
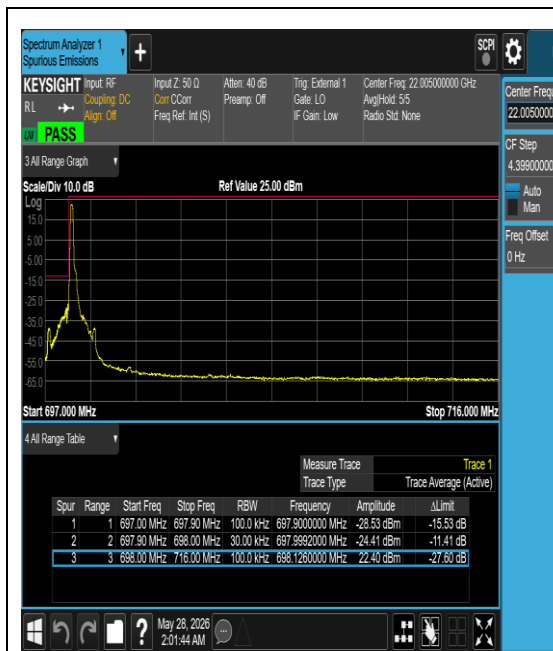
Band85-0.18-QPSK-134180-1@47-3.75kHz-
PASS



Band85-0.18-BPSK-134180-1@0-3.75kHz-PASS

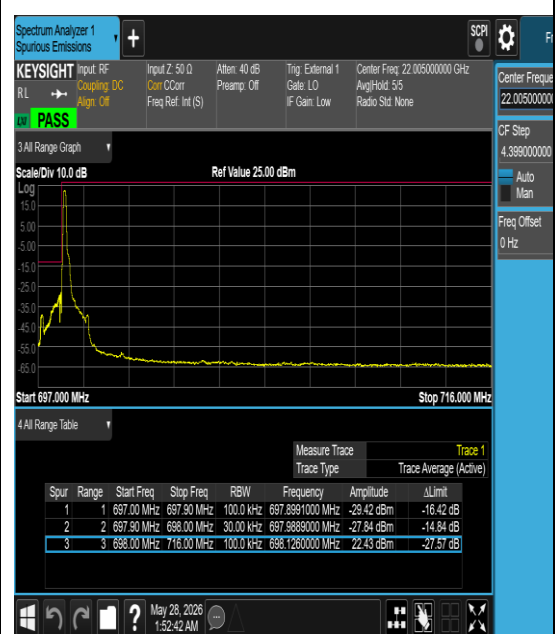
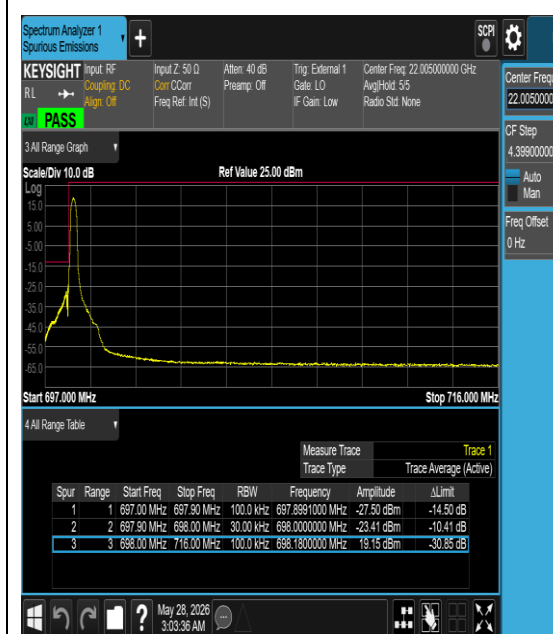


Band85-0.18-BPSK-134180-1@47-3.75kHz-
PASS



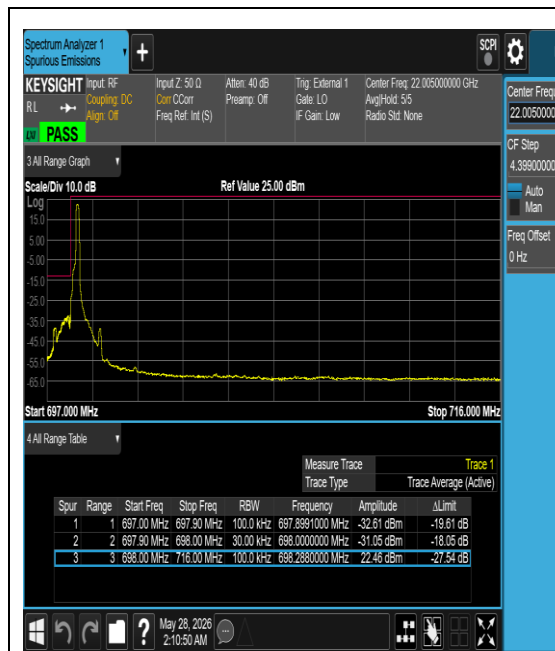
Band85-0.18-QPSK-134004-1@0-15kHz-PASS

Band85-0.18-QPSK-134004-1@11-15kHz-PASS

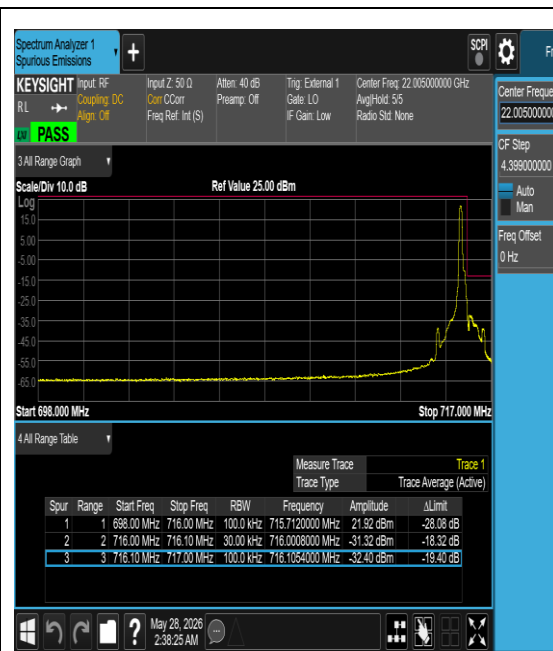


Band85-0.18-QPSK-134004-12@0-15kHz-PASS

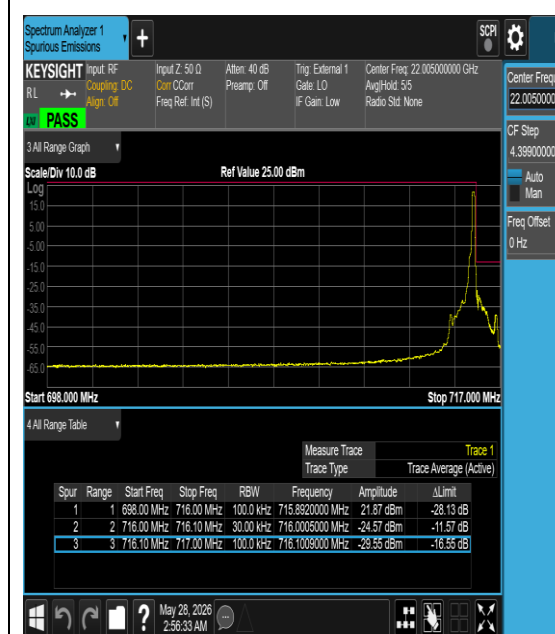
Band85-0.18-BPSK-134004-1@0-15kHz-PASS



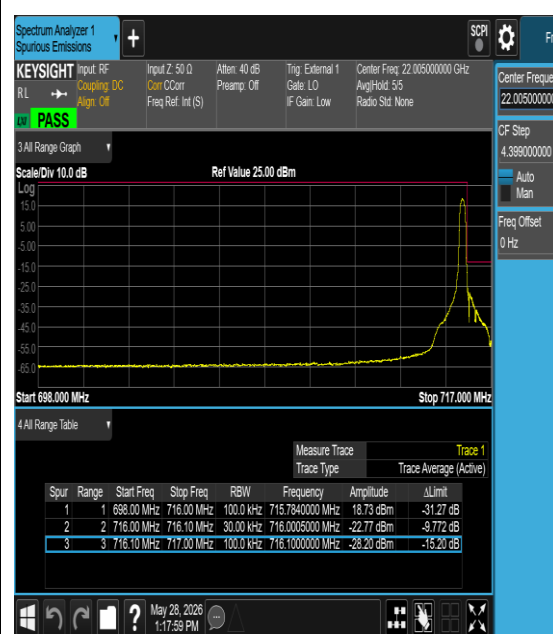
Band85-0.18-BPSK-134004-1@11-15kHz-PASS



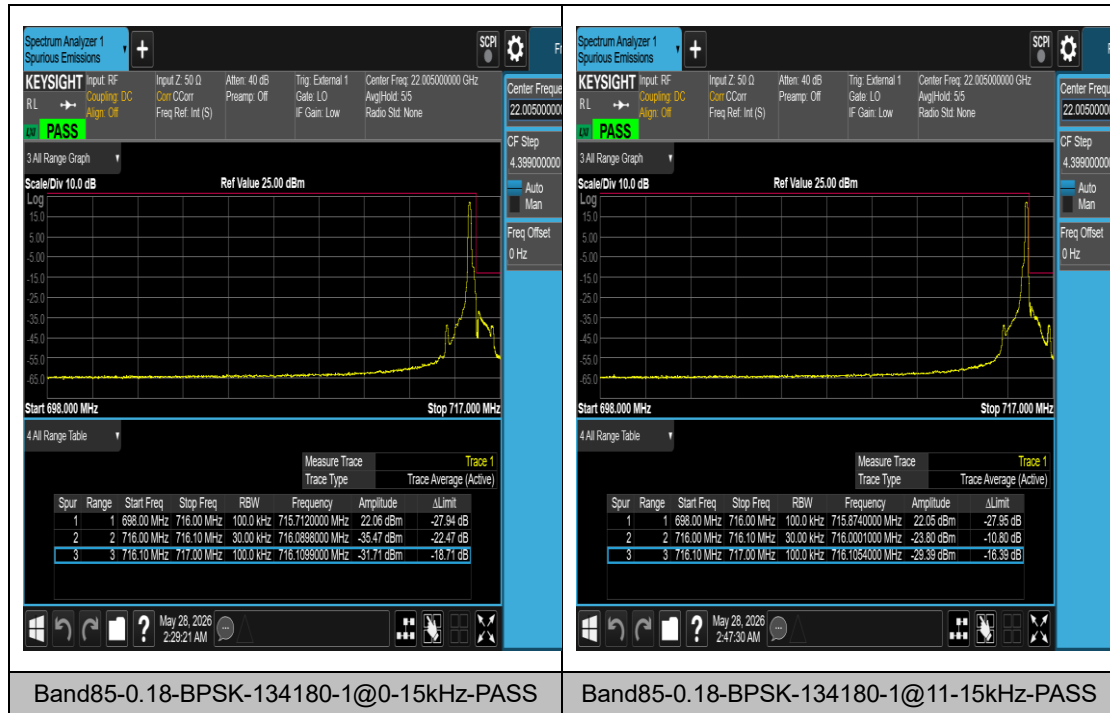
Band85-0.18-QPSK-134180-1@0-15kHz-PASS



Band85-0.18-QPSK-134180-1@11-15kHz-PASS



Band85-0.18-QPSK-134180-12@0-15kHz-PASS



Appendix E: Conducted Spurious Emission for NB1

Test Result

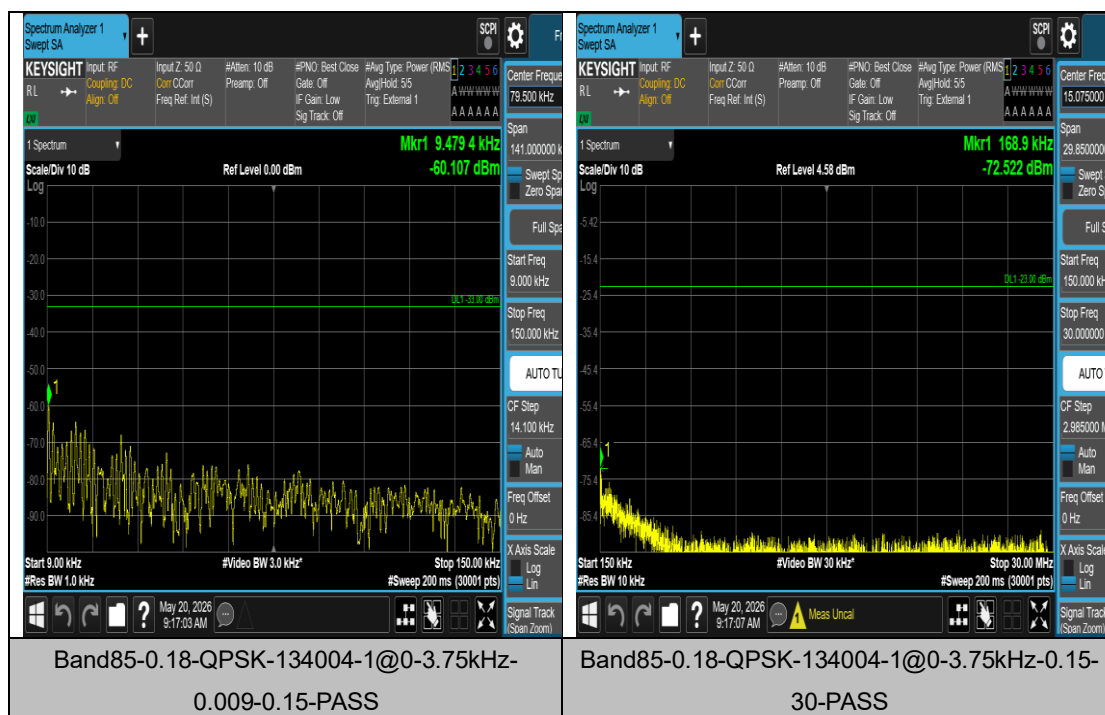
Band	OpMode	SCS	BW	Modulation	Channel	Tones	Freq Start [MHz]	Freq Stop [MHz]	Result (dBm)	Limit (dBm)	Verdict
Band85	Stand-Alone	3.75kHz	0.18	QPSK	134004	1@0	0.009	0.15	-60.11	-33	PASS
Band85	Stand-Alone	3.75kHz	0.18	QPSK	134004	1@0	0.15	30	-72.52	-23	PASS
Band85	Stand-Alone	3.75kHz	0.18	QPSK	134004	1@0	30	1000	-63.36	-13	PASS
Band85	Stand-Alone	3.75kHz	0.18	QPSK	134004	1@0	1000	10000	-50.9	-13	PASS
Band85	Stand-Alone	3.75kHz	0.18	QPSK	134004	1@47	0.009	0.15	-61.91	-33	PASS
Band85	Stand-Alone	3.75kHz	0.18	QPSK	134004	1@47	0.15	30	-78.64	-23	PASS
Band85	Stand-Alone	3.75kHz	0.18	QPSK	134004	1@47	30	1000	-63.86	-13	PASS
Band85	Stand-Alone	3.75kHz	0.18	QPSK	134004	1@47	1000	10000	-50.3	-13	PASS
Band85	Stand-Alone	3.75kHz	0.18	QPSK	134092	1@0	0.009	0.15	-63.11	-33	PASS

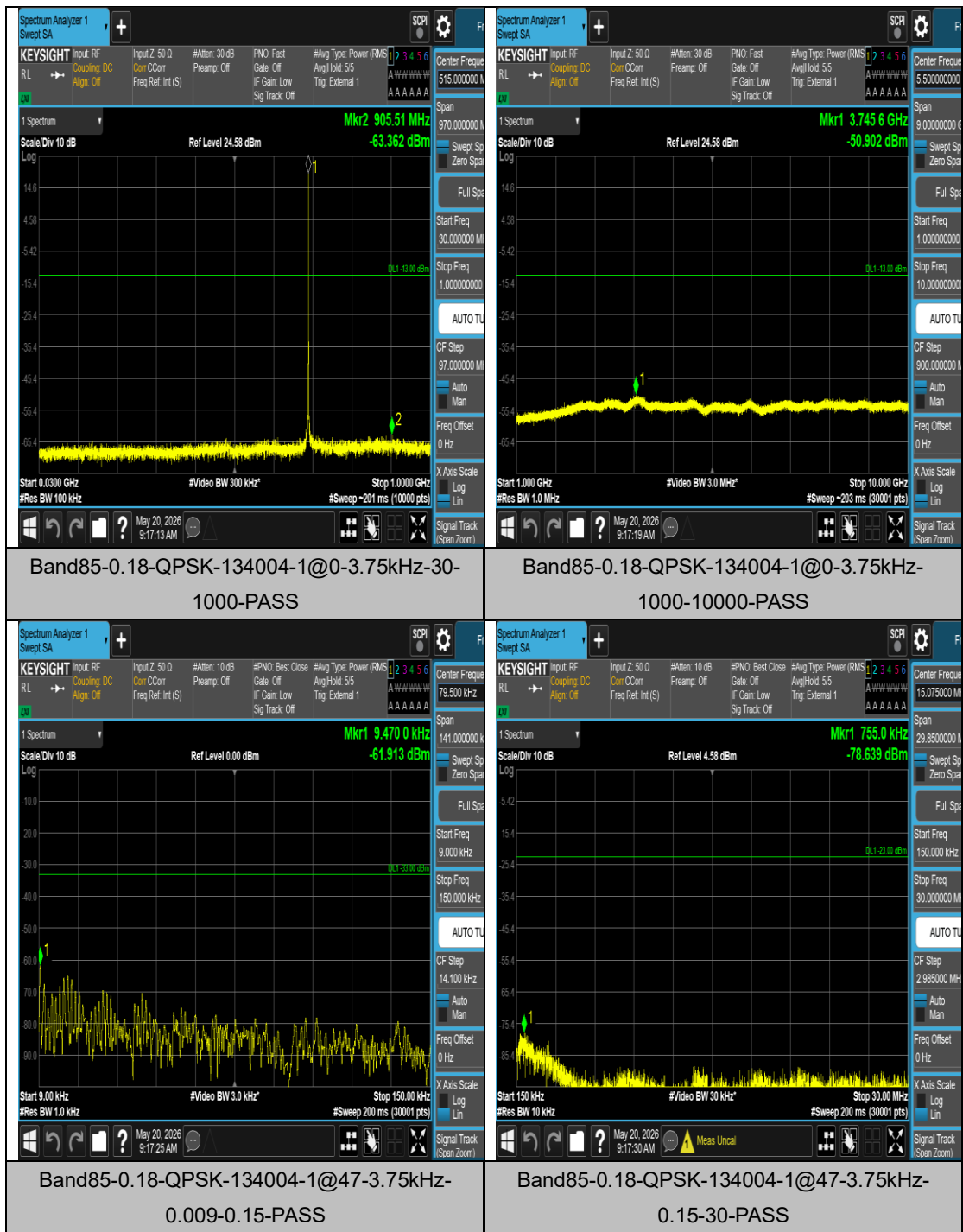
Band8 5	Stand-Alone	3.75kHz	0.18	QPSK	134092	1@0	0.15	30	-71.3	-23	PASS
Band8 5	Stand-Alone	3.75kHz	0.18	QPSK	134092	1@0	30	1000	-63.85	-13	PASS
Band8 5	Stand-Alone	3.75kHz	0.18	QPSK	134092	1@0	1000	1000 0	-51	-13	PASS
Band8 5	Stand-Alone	3.75kHz	0.18	QPSK	134092	1@47	0.009	0.15	-63.99	-33	PASS
Band8 5	Stand-Alone	3.75kHz	0.18	QPSK	134092	1@47	0.15	30	-72.26	-23	PASS
Band8 5	Stand-Alone	3.75kHz	0.18	QPSK	134092	1@47	30	1000	-63.65	-13	PASS
Band8 5	Stand-Alone	3.75kHz	0.18	QPSK	134092	1@47	1000	1000 0	-49.16	-13	PASS
Band8 5	Stand-Alone	3.75kHz	0.18	QPSK	134180	1@0	0.009	0.15	-64.06	-33	PASS
Band8 5	Stand-Alone	3.75kHz	0.18	QPSK	134180	1@0	0.15	30	-72.31	-23	PASS
Band8 5	Stand-Alone	3.75kHz	0.18	QPSK	134180	1@0	30	1000	-63.07	-13	PASS
Band8 5	Stand-Alone	3.75kHz	0.18	QPSK	134180	1@0	1000	1000 0	-48.77	-13	PASS
Band8 5	Stand-Alone	3.75kHz	0.18	QPSK	134180	1@47	0.009	0.15	-64.16	-33	PASS
Band8 5	Stand-Alone	3.75kHz	0.18	QPSK	134180	1@47	0.15	30	-74.72	-23	PASS
Band8 5	Stand-Alone	3.75kHz	0.18	QPSK	134180	1@47	30	1000	-63.38	-13	PASS
Band8 5	Stand-Alone	3.75kHz	0.18	QPSK	134180	1@47	1000	1000 0	-50.79	-13	PASS
Band8 5	Stand-Alone	15kHz	0.18	QPSK	134004	12@0	0.009	0.15	-60.92	-33	PASS
Band8 5	Stand-Alone	15kHz	0.18	QPSK	134004	12@0	0.15	30	-71.02	-23	PASS
Band8 5	Stand-Alone	15kHz	0.18	QPSK	134004	12@0	30	1000	-64.09	-13	PASS
Band8 5	Stand-Alone	15kHz	0.18	QPSK	134004	12@0	1000	1000 0	-50.64	-13	PASS
Band8 5	Stand-Alone	15kHz	0.18	BPSK	134004	1@0	0.009	0.15	-69.64	-33	PASS
Band8 5	Stand-Alone	15kHz	0.18	BPSK	134004	1@0	0.15	30	-68.68	-23	PASS
Band8 5	Stand-Alone	15kHz	0.18	BPSK	134004	1@0	30	1000	-63.74	-13	PASS

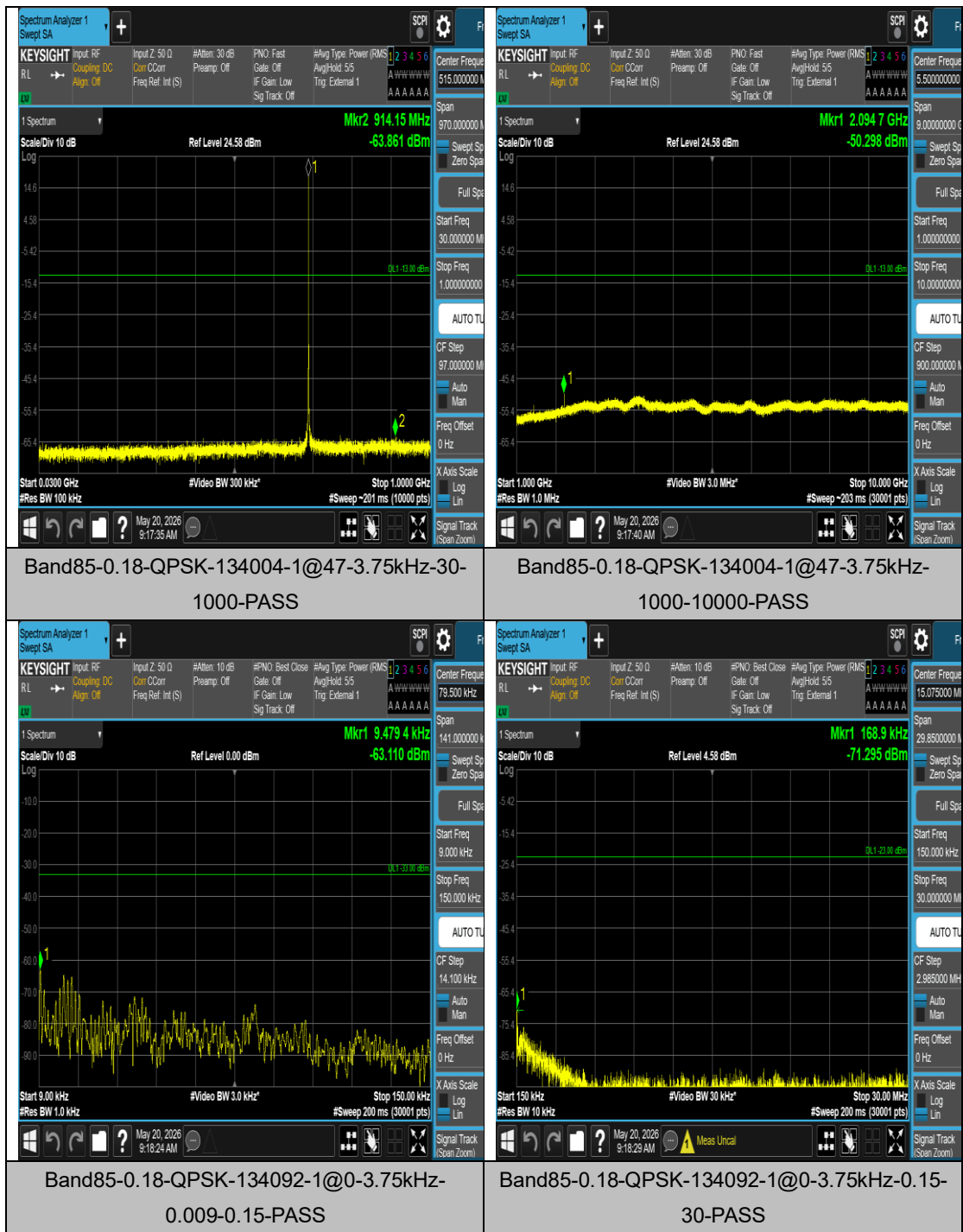
Band8 5	Stand-Alone	15kHz	0.18	BPSK	134004	1@0	1000	1000 0	-50.79	-13	PASS
Band8 5	Stand-Alone	15kHz	0.18	BPSK	134004	1@11	0.009	0.15	-69.07	-33	PASS
Band8 5	Stand-Alone	15kHz	0.18	BPSK	134004	1@11	0.15	30	-71.64	-23	PASS
Band8 5	Stand-Alone	15kHz	0.18	BPSK	134004	1@11	30	1000	-63.49	-13	PASS
Band8 5	Stand-Alone	15kHz	0.18	BPSK	134004	1@11	1000	1000 0	-50.43	-13	PASS
Band8 5	Stand-Alone	15kHz	0.18	QPSK	134092	12@0	0.009	0.15	-63.86	-33	PASS
Band8 5	Stand-Alone	15kHz	0.18	QPSK	134092	12@0	0.15	30	-68.31	-23	PASS
Band8 5	Stand-Alone	15kHz	0.18	QPSK	134092	12@0	30	1000	-63.49	-13	PASS
Band8 5	Stand-Alone	15kHz	0.18	QPSK	134092	12@0	1000	1000 0	-50.7	-13	PASS
Band8 5	Stand-Alone	15kHz	0.18	BPSK	134092	1@0	0.009	0.15	-69.89	-33	PASS
Band8 5	Stand-Alone	15kHz	0.18	BPSK	134092	1@0	0.15	30	-73.65	-23	PASS
Band8 5	Stand-Alone	15kHz	0.18	BPSK	134092	1@0	30	1000	-64.07	-13	PASS
Band8 5	Stand-Alone	15kHz	0.18	BPSK	134092	1@0	1000	1000 0	-50.57	-13	PASS
Band8 5	Stand-Alone	15kHz	0.18	BPSK	134092	1@11	0.009	0.15	-70.05	-33	PASS
Band8 5	Stand-Alone	15kHz	0.18	BPSK	134092	1@11	0.15	30	-71.09	-23	PASS
Band8 5	Stand-Alone	15kHz	0.18	BPSK	134092	1@11	30	1000	-63.58	-13	PASS
Band8 5	Stand-Alone	15kHz	0.18	BPSK	134092	1@11	1000	1000 0	-50.64	-13	PASS
Band8 5	Stand-Alone	15kHz	0.18	QPSK	134180	12@0	0.009	0.15	-63.67	-33	PASS
Band8 5	Stand-Alone	15kHz	0.18	QPSK	134180	12@0	0.15	30	-66.07	-23	PASS
Band8 5	Stand-Alone	15kHz	0.18	QPSK	134180	12@0	30	1000	-63.84	-13	PASS
Band8 5	Stand-Alone	15kHz	0.18	QPSK	134180	12@0	1000	1000 0	-50.12	-13	PASS
Band8 5	Stand-Alone	15kHz	0.18	BPSK	134180	1@0	0.009	0.15	-70.8	-33	PASS

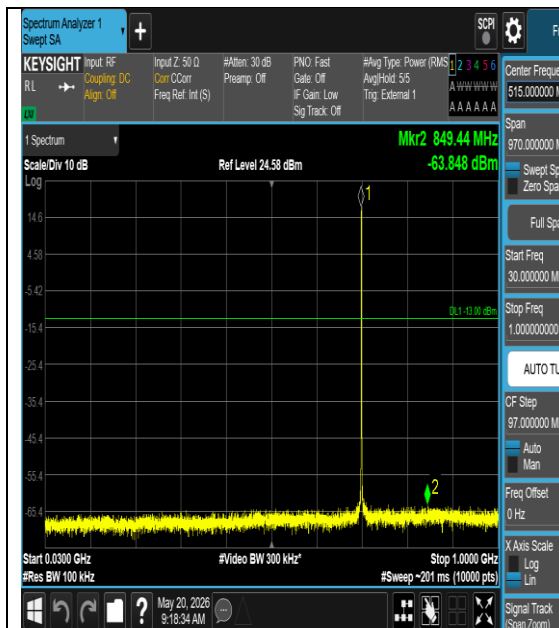
Band8 5	Stand-Alone	15kHz	0.18	BPSK	134180	1@0	0.15	30	-70.77	-23	PASS
Band8 5	Stand-Alone	15kHz	0.18	BPSK	134180	1@0	30	1000	-64	-13	PASS
Band8 5	Stand-Alone	15kHz	0.18	BPSK	134180	1@0	1000	1000 0	-50.78	-13	PASS
Band8 5	Stand-Alone	15kHz	0.18	BPSK	134180	1@11	0.009	0.15	-67.87	-33	PASS
Band8 5	Stand-Alone	15kHz	0.18	BPSK	134180	1@11	0.15	30	-71.34	-23	PASS
Band8 5	Stand-Alone	15kHz	0.18	BPSK	134180	1@11	30	1000	-63.2	-13	PASS
Band8 5	Stand-Alone	15kHz	0.18	BPSK	134180	1@11	1000	1000 0	-50.61	-13	PASS

Test Graphs

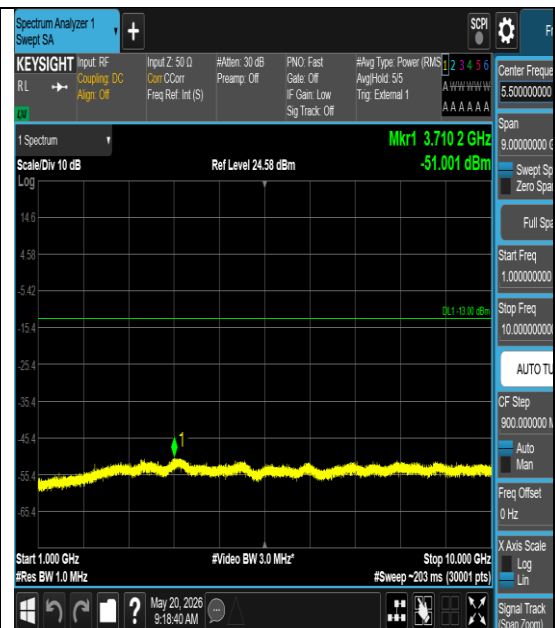




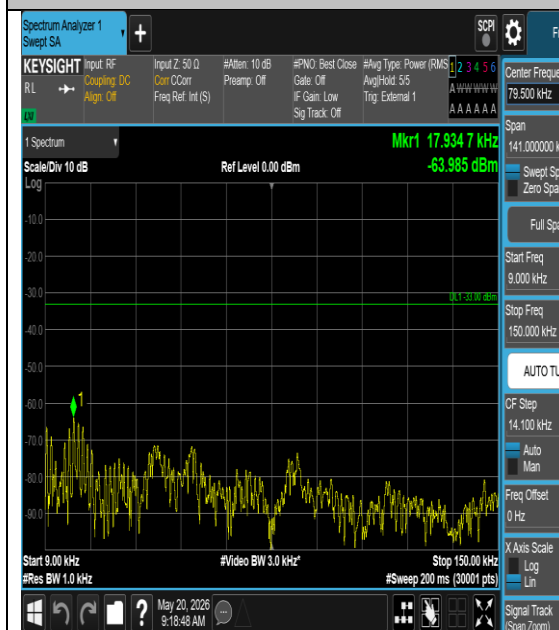




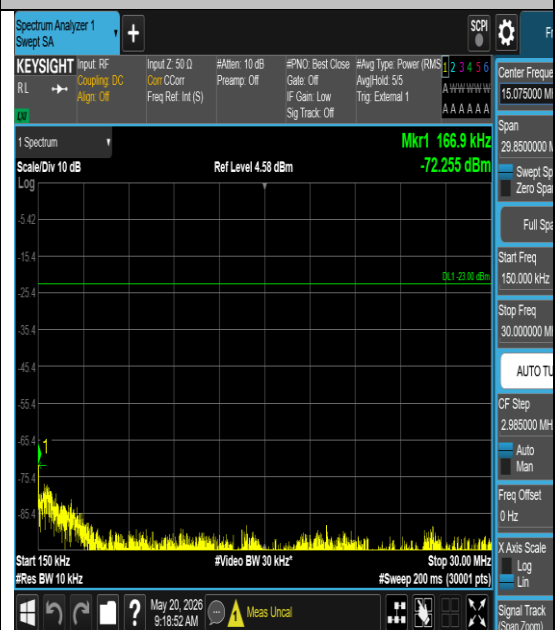
Band85-0.18-QPSK-134092-1@0-3.75kHz-30-1000-PASS



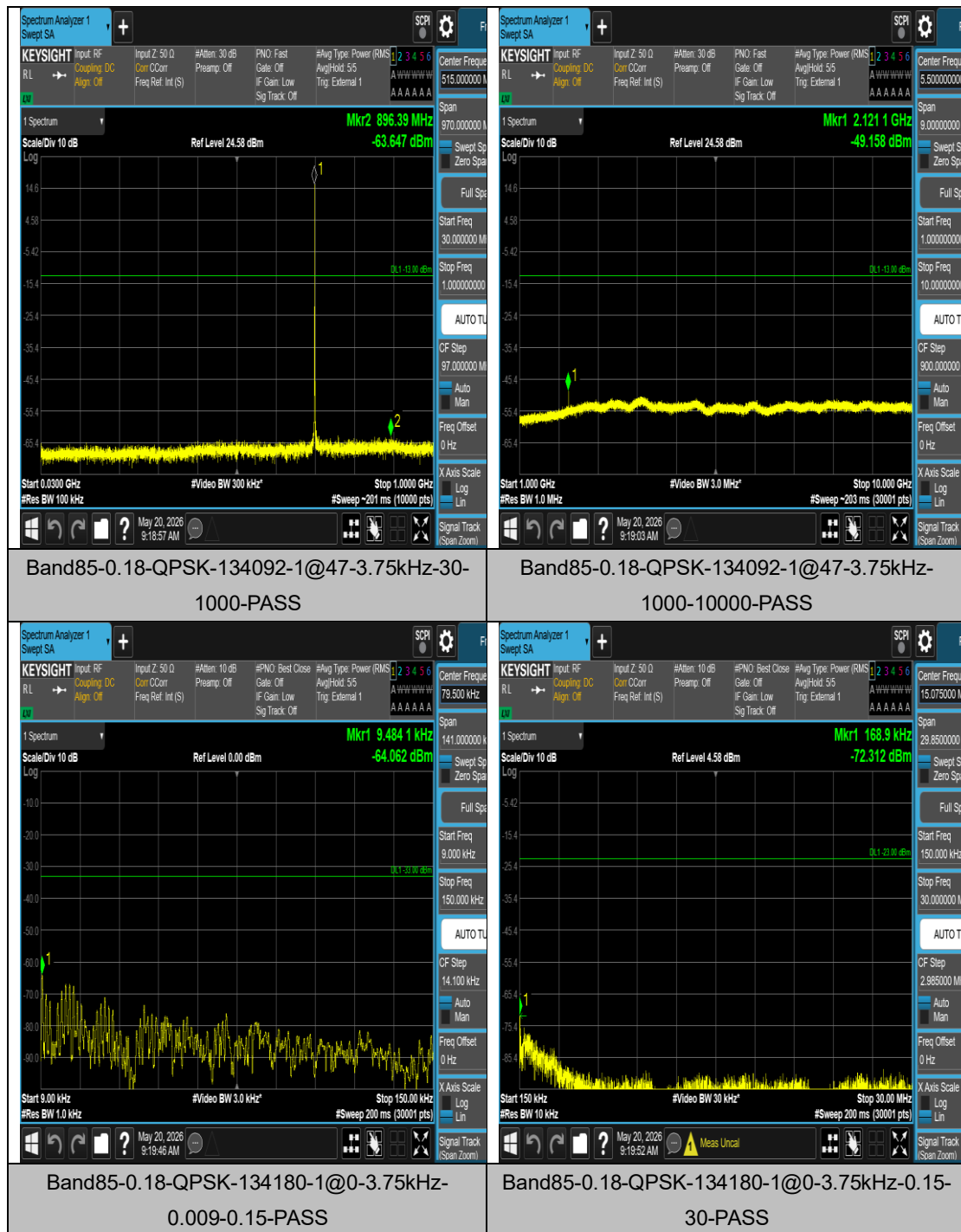
Band85-0.18-QPSK-134092-1@0-3.75kHz-1000-10000-PASS

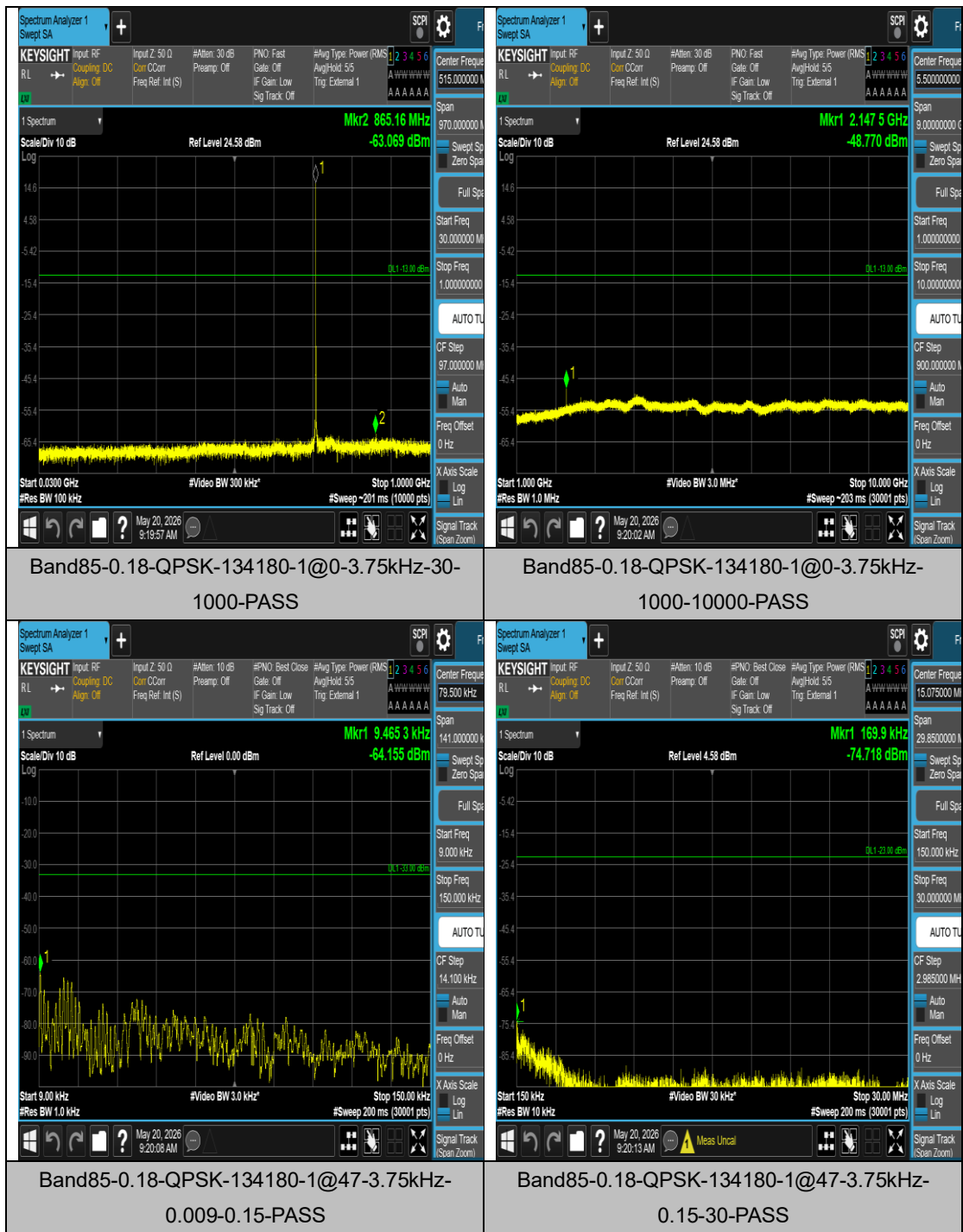


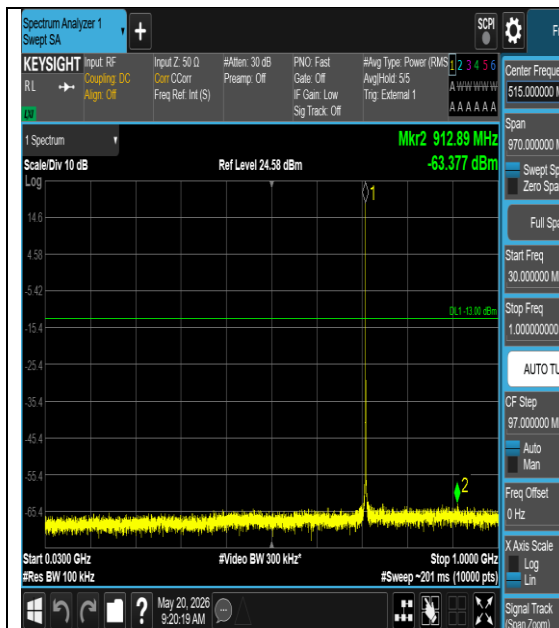
Band85-0.18-QPSK-134092-1@47-3.75kHz-0.009-0.15-PASS



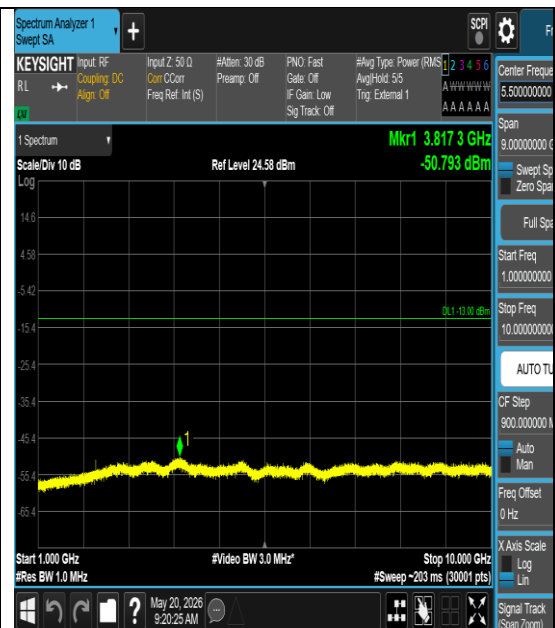
Band85-0.18-QPSK-134092-1@47-3.75kHz-0.15-30-PASS



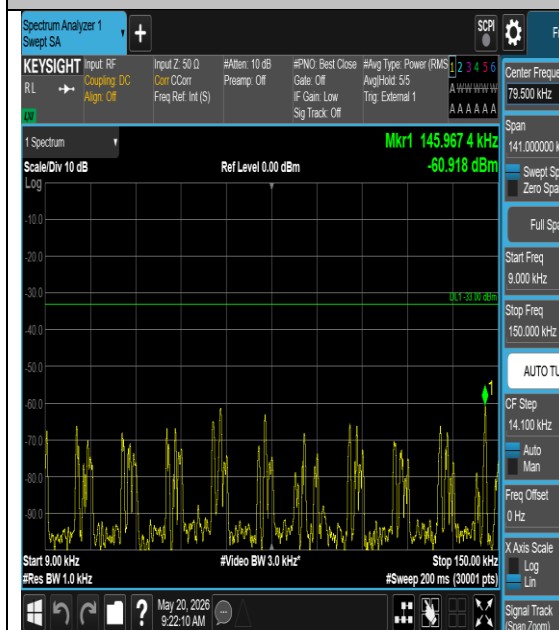




Band85-0.18-QPSK-134180-1@47-3.75kHz-30-1000-PASS



Band85-0.18-QPSK-134180-1@47-3.75kHz-1000-10000-PASS



Band85-0.18-QPSK-134004-12@0-15kHz-0.009-0.15-PASS



Band85-0.18-QPSK-134004-12@0-15kHz-0.15-30-PASS

