

Appendix-B LTE NB-IoT Band 26 (814-824)

Transmitter Conducted Output Power

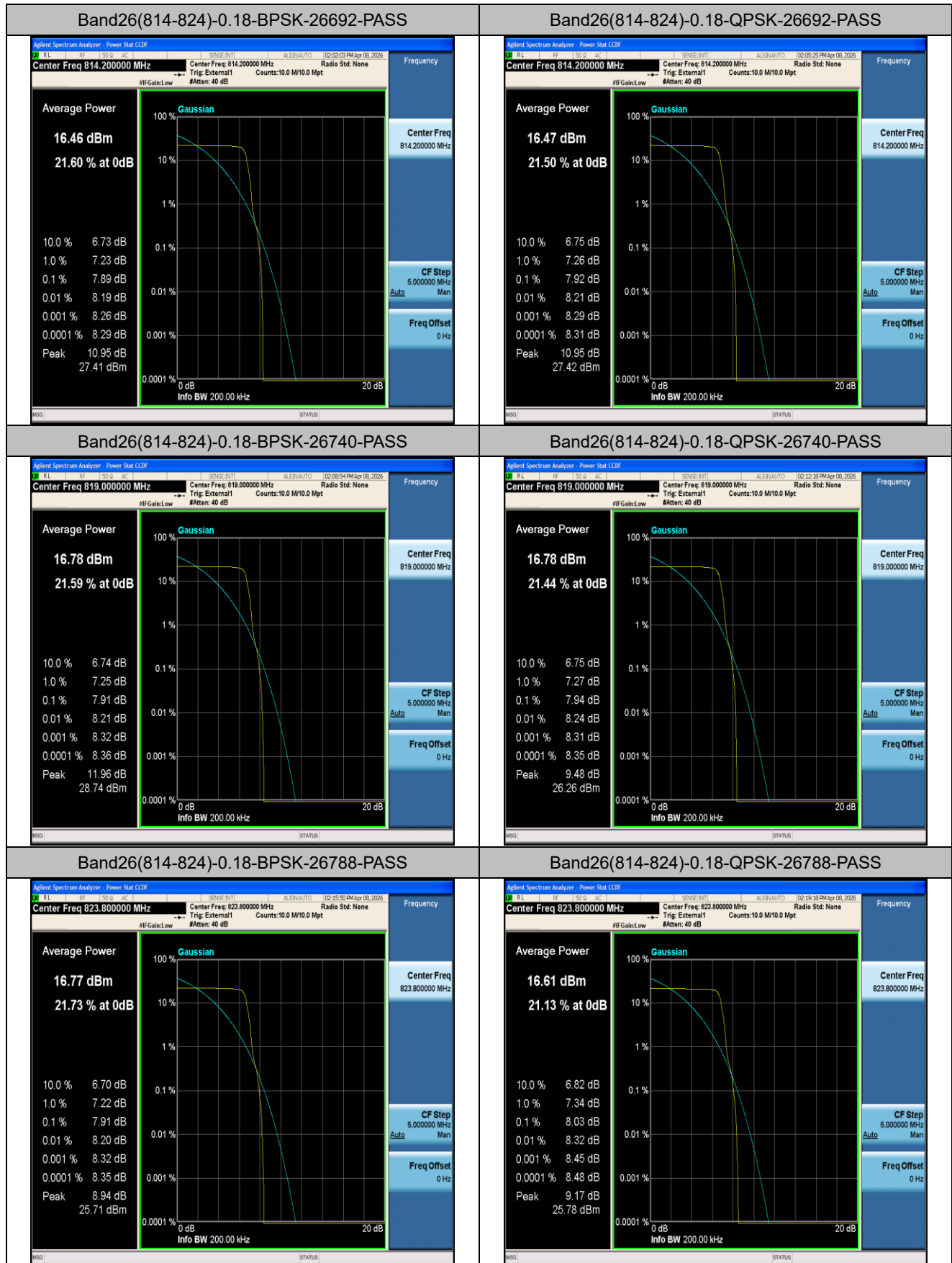
Test Result

Band	OpMode	SCS	BW	Modulation	Channel	Tones	Result (dBm)	Limit (dBm)	Verdict
Band26(814-824)	Stand-Alone	3.75kHz	0.18	BPSK	26692	1@0	21.36	50.00	PASS
Band26(814-824)	Stand-Alone	3.75kHz	0.18	QPSK	26692	1@0	21.20	50.00	PASS
Band26(814-824)	Stand-Alone	3.75kHz	0.18	BPSK	26692	1@47	21.14	50.00	PASS
Band26(814-824)	Stand-Alone	3.75kHz	0.18	QPSK	26692	1@47	21.20	50.00	PASS
Band26(814-824)	Stand-Alone	3.75kHz	0.18	BPSK	26740	1@0	21.87	50.00	PASS
Band26(814-824)	Stand-Alone	3.75kHz	0.18	QPSK	26740	1@0	21.67	50.00	PASS
Band26(814-824)	Stand-Alone	3.75kHz	0.18	BPSK	26740	1@47	21.65	50.00	PASS
Band26(814-824)	Stand-Alone	3.75kHz	0.18	QPSK	26740	1@47	21.62	50.00	PASS
Band26(814-824)	Stand-Alone	3.75kHz	0.18	BPSK	26788	1@0	21.78	50.00	PASS
Band26(814-824)	Stand-Alone	3.75kHz	0.18	QPSK	26788	1@0	21.67	50.00	PASS
Band26(814-824)	Stand-Alone	3.75kHz	0.18	BPSK	26788	1@47	21.57	50.00	PASS
Band26(814-824)	Stand-Alone	3.75kHz	0.18	QPSK	26788	1@47	21.58	50.00	PASS
Band26(814-824)	Stand-Alone	15kHz	0.18	BPSK	26692	1@0	21.69	50.00	PASS
Band26(814-824)	Stand-Alone	15kHz	0.18	QPSK	26692	1@0	21.70	50.00	PASS
Band26(814-824)	Stand-Alone	15kHz	0.18	BPSK	26692	1@11	21.71	50.00	PASS
Band26(814-824)	Stand-Alone	15kHz	0.18	QPSK	26692	1@11	21.72	50.00	PASS
Band26(814-824)	Stand-Alone	15kHz	0.18	BPSK	26740	1@0	22.36	50.00	PASS
Band26(814-824)	Stand-Alone	15kHz	0.18	QPSK	26740	1@0	22.33	50.00	PASS
Band26(814-824)	Stand-Alone	15kHz	0.18	BPSK	26740	1@11	22.29	50.00	PASS
Band26(814-824)	Stand-Alone	15kHz	0.18	QPSK	26740	1@11	22.34	50.00	PASS
Band26(814-824)	Stand-Alone	15kHz	0.18	BPSK	26788	1@0	22.41	50.00	PASS
Band26(814-824)	Stand-Alone	15kHz	0.18	QPSK	26788	1@0	22.40	50.00	PASS
Band26(814-824)	Stand-Alone	15kHz	0.18	BPSK	26788	1@11	22.35	50.00	PASS
Band26(814-824)	Stand-Alone	15kHz	0.18	QPSK	26788	1@11	22.36	50.00	PASS
Band26(814-824)	Stand-Alone	15kHz	0.18	QPSK	26692	3@3	22.71	50.00	PASS
Band26(814-824)	Stand-Alone	15kHz	0.18	QPSK	26740	3@3	23.32	50.00	PASS
Band26(814-824)	Stand-Alone	15kHz	0.18	QPSK	26788	3@3	23.42	50.00	PASS

Peak-to-Average Ratio(CCDF) for NB**Test Result**

Band	OpMode	SCS	BW	Modulation	Channel	Tones	Result (dB)	Limit (dB)	Verdict
Band26(814-824)	Stand-Alone	15kHz	0.18	BPSK	26692	12@0	7.89	<=13	PASS
Band26(814-824)	Stand-Alone	15kHz	0.18	QPSK	26692	12@0	7.92	<=13	PASS
Band26(814-824)	Stand-Alone	15kHz	0.18	BPSK	26740	12@0	7.91	<=13	PASS
Band26(814-824)	Stand-Alone	15kHz	0.18	QPSK	26740	12@0	7.94	<=13	PASS
Band26(814-824)	Stand-Alone	15kHz	0.18	BPSK	26788	12@0	7.91	<=13	PASS
Band26(814-824)	Stand-Alone	15kHz	0.18	QPSK	26788	12@0	8.03	<=13	PASS

Test Graphs

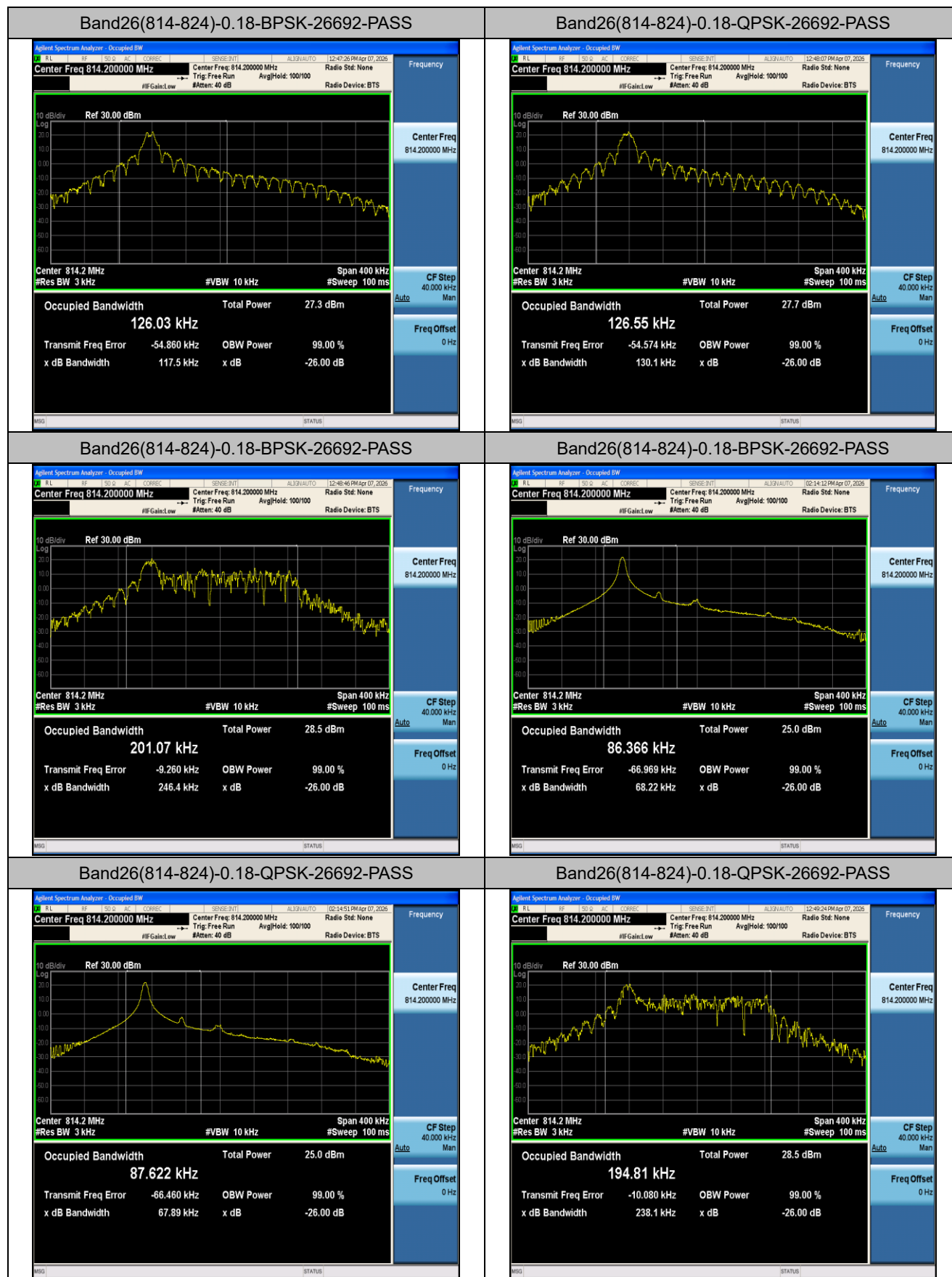


Emission Bandwidth for NB

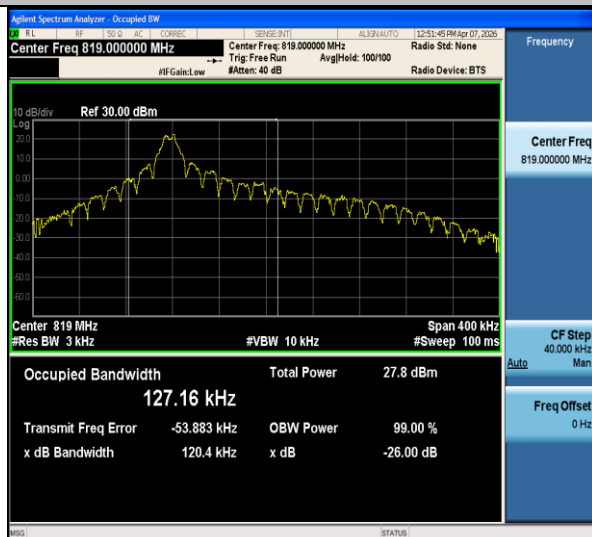
Test Result

Band	OpMode	SCS	BW	Modulation	Channel	Tones	OBW(MHz)	EBW(MHz)	Verdict
Band26(814-824)	Stand-Alone	15kHz	0.18	BPSK	26692	1@0	0.12603	0.1175	PASS
Band26(814-824)	Stand-Alone	15kHz	0.18	QPSK	26692	1@0	0.12655	0.1301	PASS
Band26(814-824)	Stand-Alone	15kHz	0.18	BPSK	26692	12@0	0.20107	0.2464	PASS
Band26(814-824)	Stand-Alone	3.75kHz	0.18	BPSK	26692	1@0	0.08637	0.0682	PASS
Band26(814-824)	Stand-Alone	3.75kHz	0.18	QPSK	26692	1@0	0.08762	0.0679	PASS
Band26(814-824)	Stand-Alone	15kHz	0.18	QPSK	26692	12@0	0.19481	0.2381	PASS
Band26(814-824)	Stand-Alone	15kHz	0.18	BPSK	26740	1@0	0.12716	0.1204	PASS
Band26(814-824)	Stand-Alone	15kHz	0.18	QPSK	26740	1@0	0.12844	0.1408	PASS
Band26(814-824)	Stand-Alone	15kHz	0.18	BPSK	26740	12@0	0.19839	0.2501	PASS
Band26(814-824)	Stand-Alone	15kHz	0.18	QPSK	26740	12@0	0.19585	0.2255	PASS
Band26(814-824)	Stand-Alone	3.75kHz	0.18	BPSK	26740	1@0	0.07428	0.0681	PASS
Band26(814-824)	Stand-Alone	3.75kHz	0.18	QPSK	26740	1@0	0.08575	0.0673	PASS
Band26(814-824)	Stand-Alone	3.75kHz	0.18	BPSK	26788	1@0	0.07443	0.0675	PASS
Band26(814-824)	Stand-Alone	3.75kHz	0.18	QPSK	26788	1@0	0.08744	0.0681	PASS
Band26(814-824)	Stand-Alone	15kHz	0.18	BPSK	26788	1@0	0.12943	0.1271	PASS
Band26(814-824)	Stand-Alone	15kHz	0.18	QPSK	26788	1@0	0.12607	0.1410	PASS
Band26(814-824)	Stand-Alone	15kHz	0.18	BPSK	26788	12@0	0.19623	0.2478	PASS
Band26(814-824)	Stand-Alone	15kHz	0.18	QPSK	26788	12@0	0.19887	0.2503	PASS

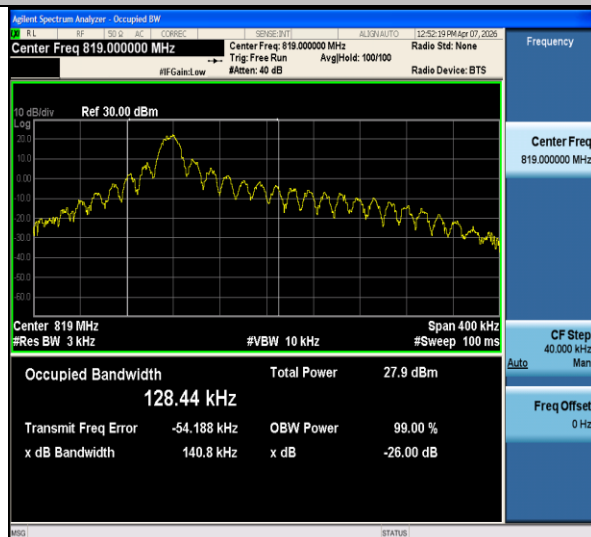
Test Graphs



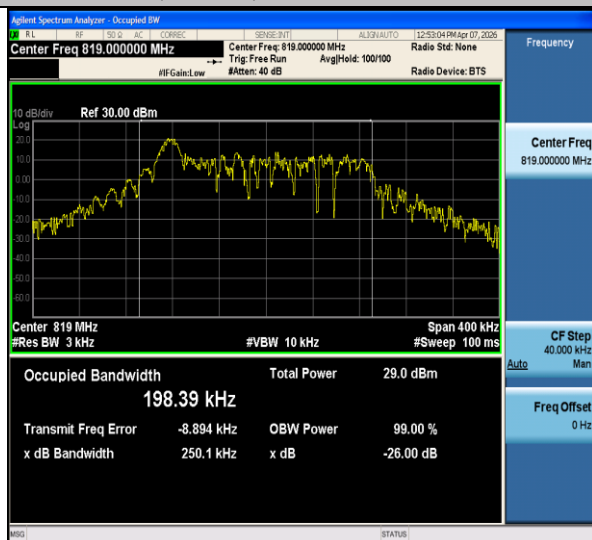
Band26(814-824)-0.18-BPSK-26740-PASS



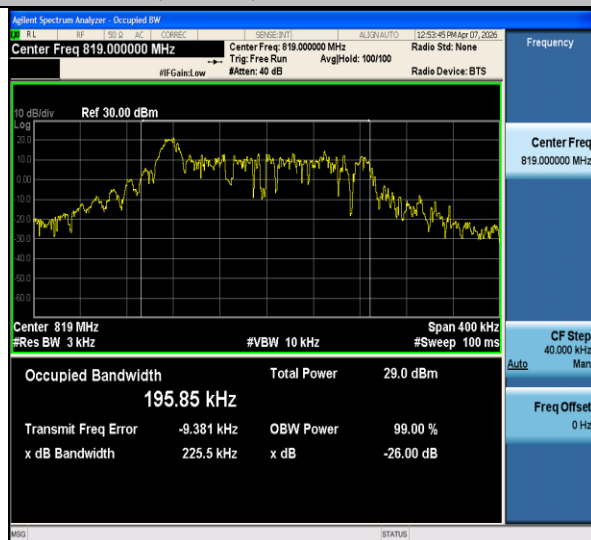
Band26(814-824)-0.18-QPSK-26740-PASS



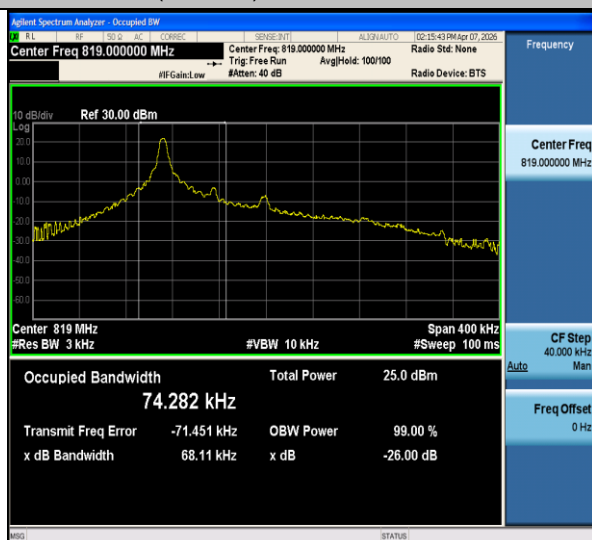
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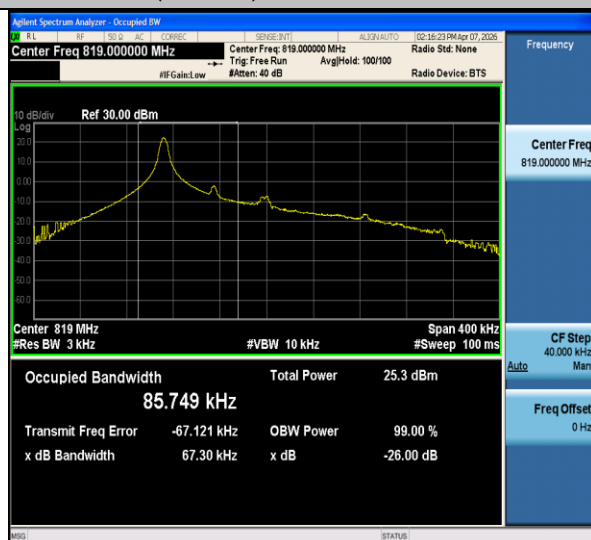
Band26(814-824)-0.18-QPSK-26740-PASS



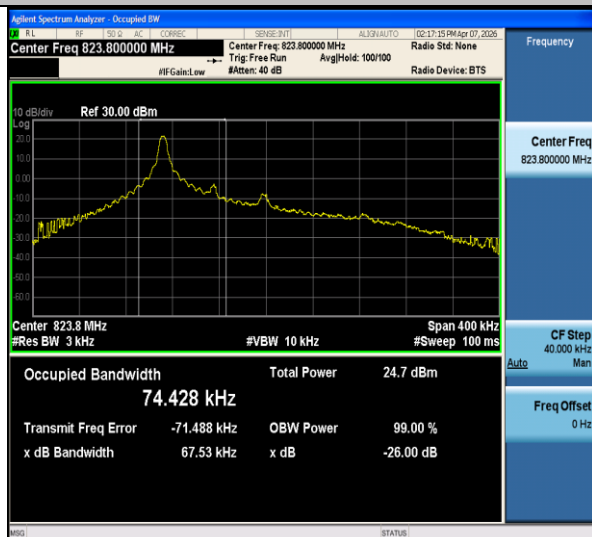
Band26(814-824)-0.18-BPSK-26740-PASS



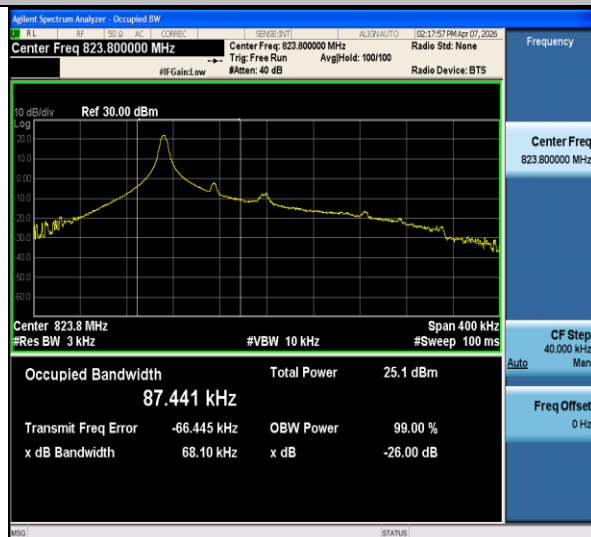
Band26(814-824)-0.18-QPSK-26740-PASS



Band26(814-824)-0.18-BPSK-26788-PASS



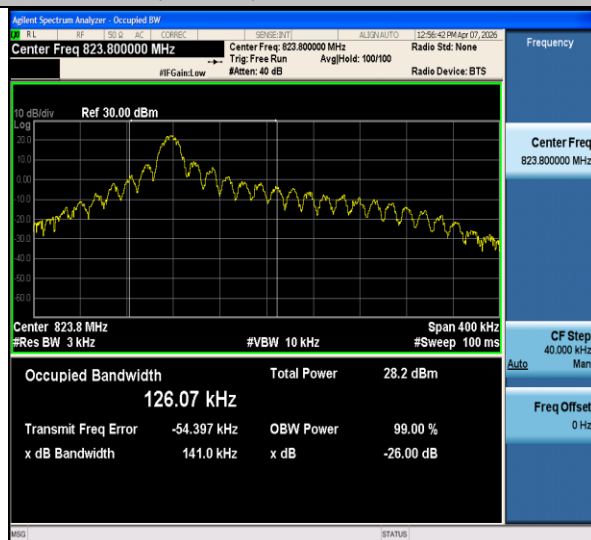
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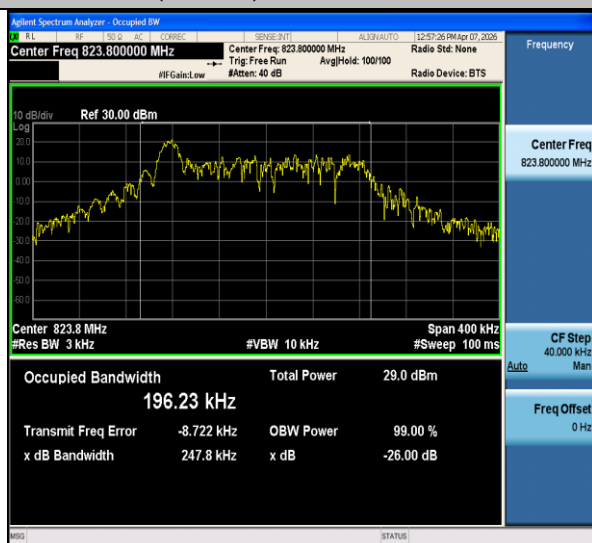
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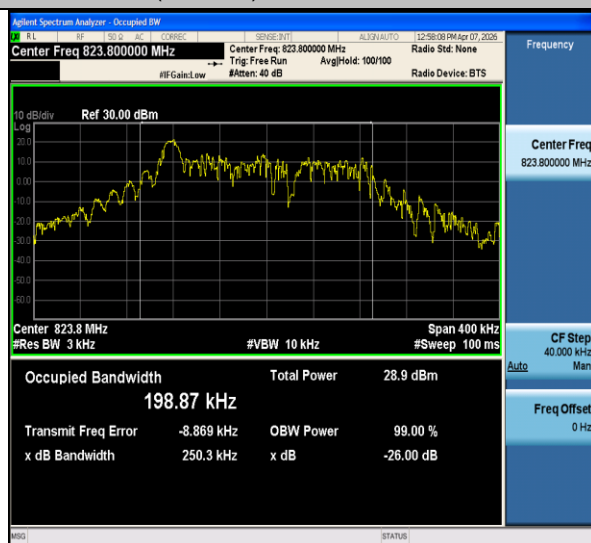
Band26(814-824)-0.18-QPSK-26788-PASS



Band26(814-824)-0.18-BPSK-26788-PASS

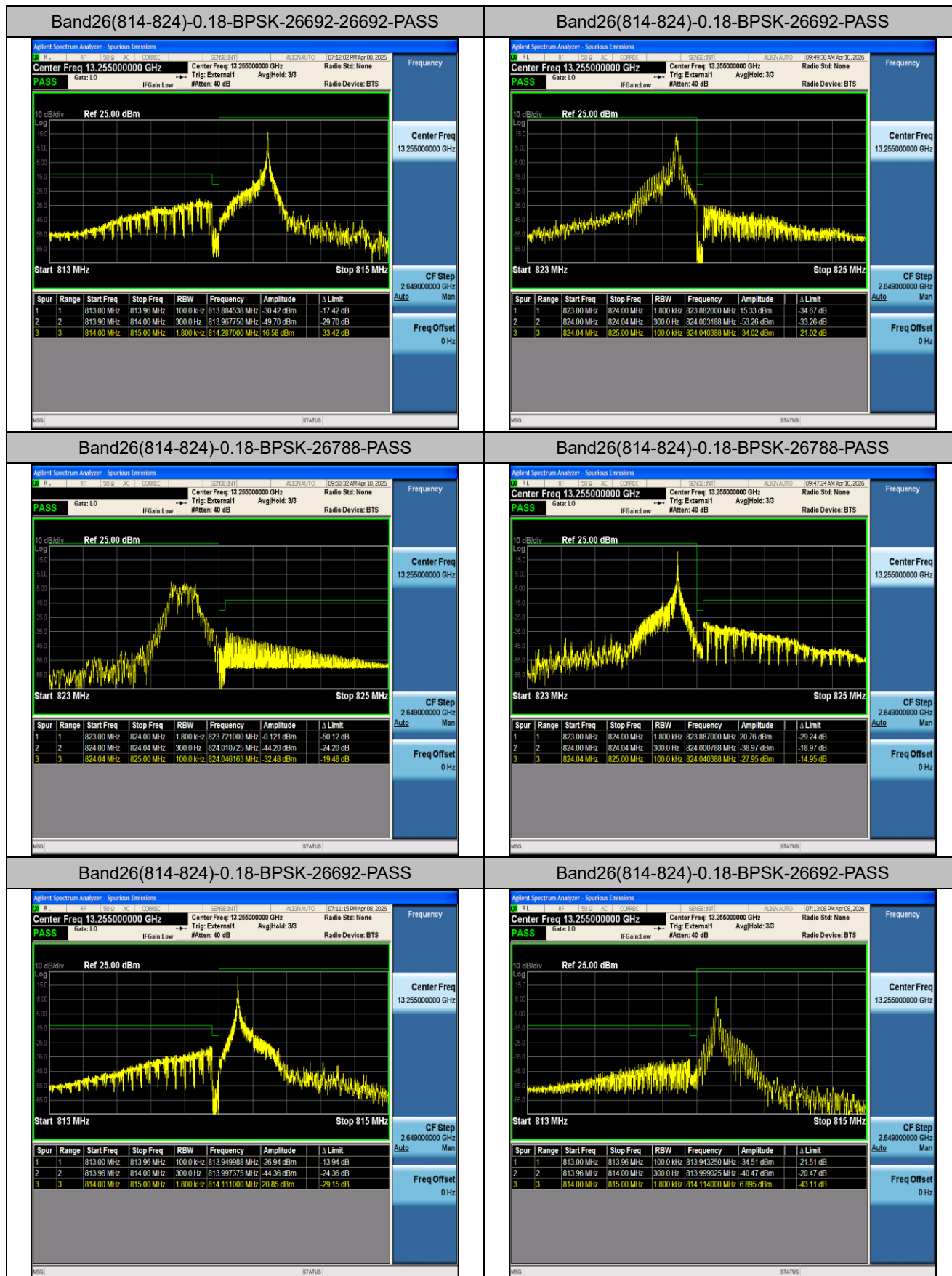


Band26(814-824)-0.18-QPSK-26788-PASS

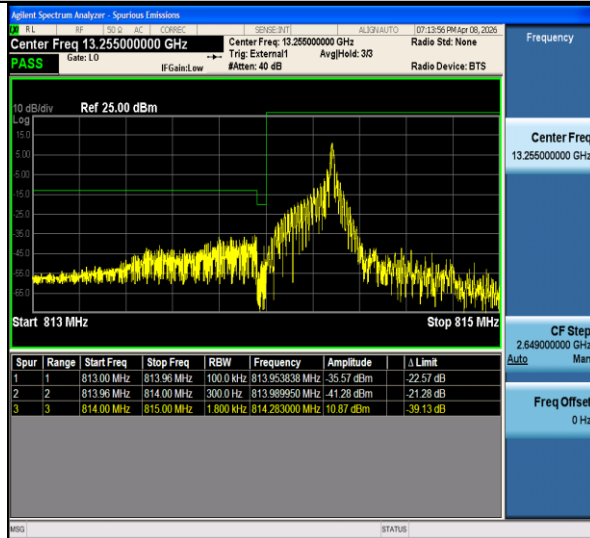


Band Edge for NB

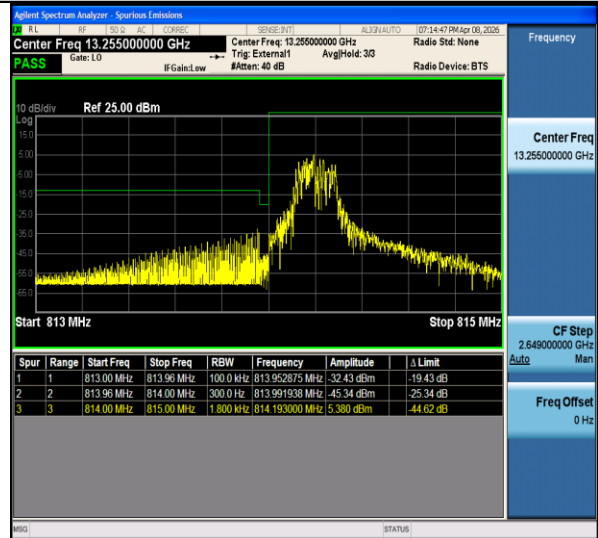
Test Graphs



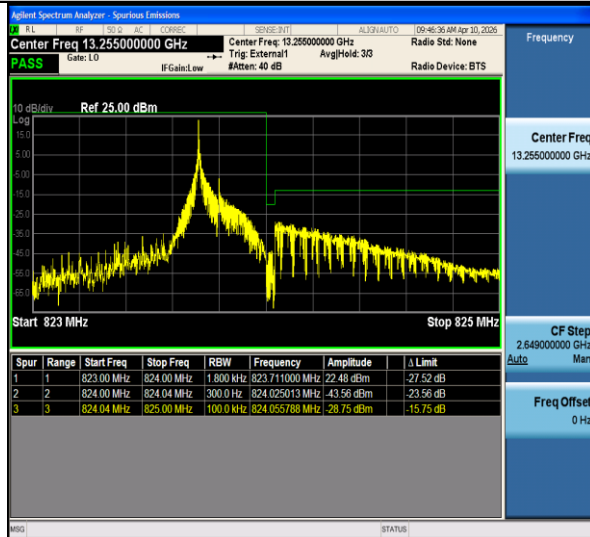
Band26(814-824)-0.18-BPSK-26692-PASS



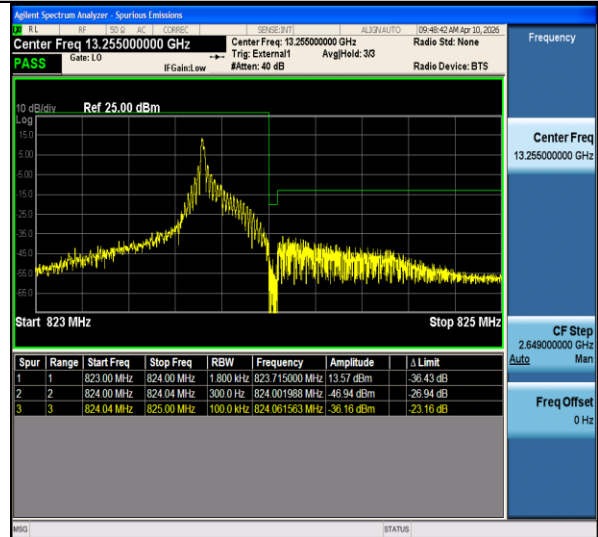
Band26(814-824)-0.18-BPSK-26692-PASS



Band26(814-824)-0.18-BPSK-26788-PASS

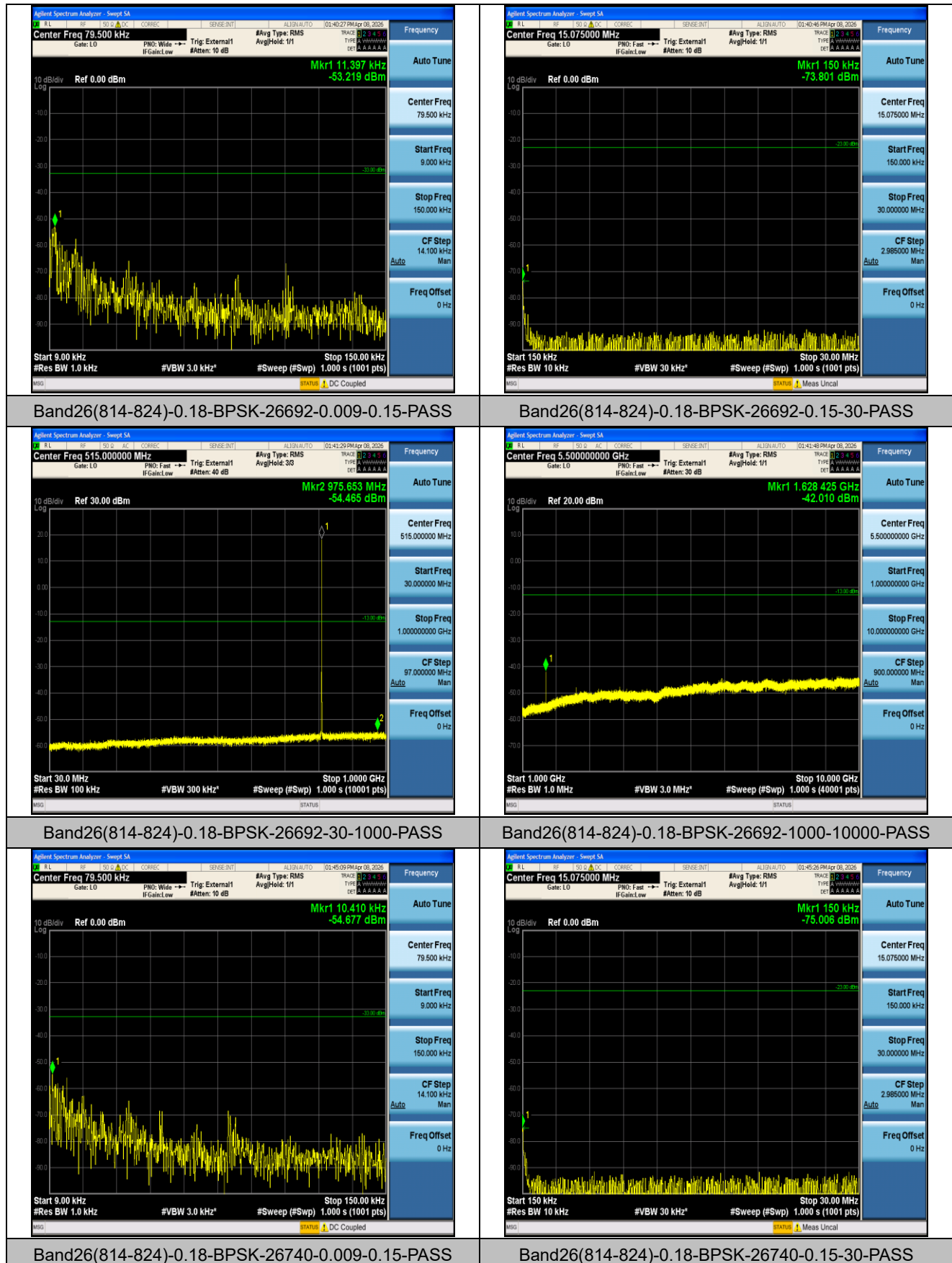


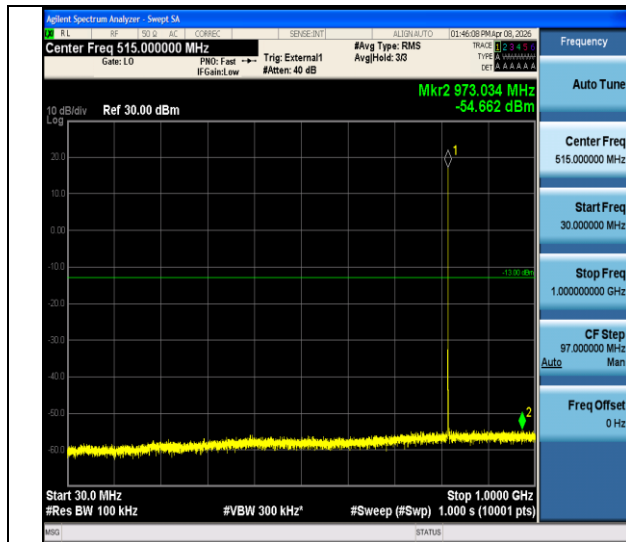
Band26(814-824)-0.18-BPSK-26788-PASS



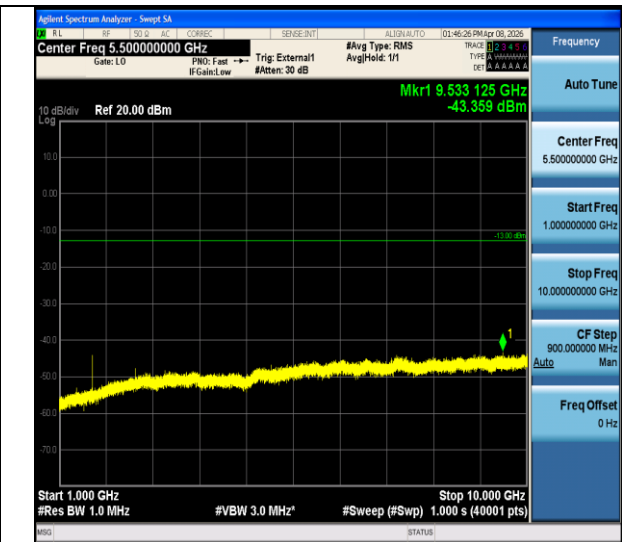
Conducted Spurious Emission for NB

Test Graphs

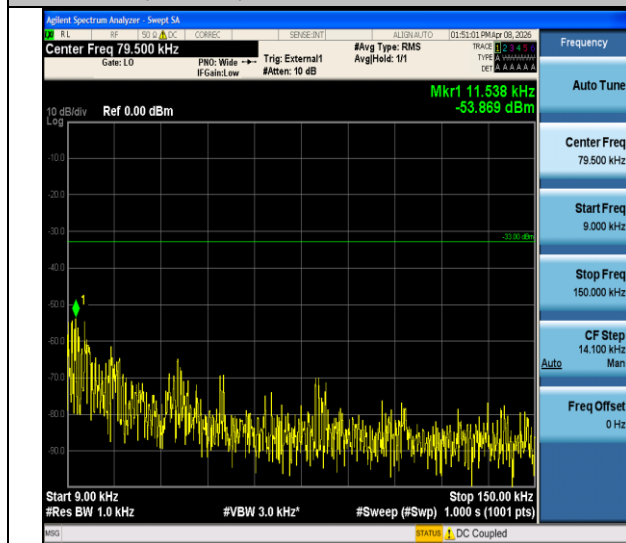




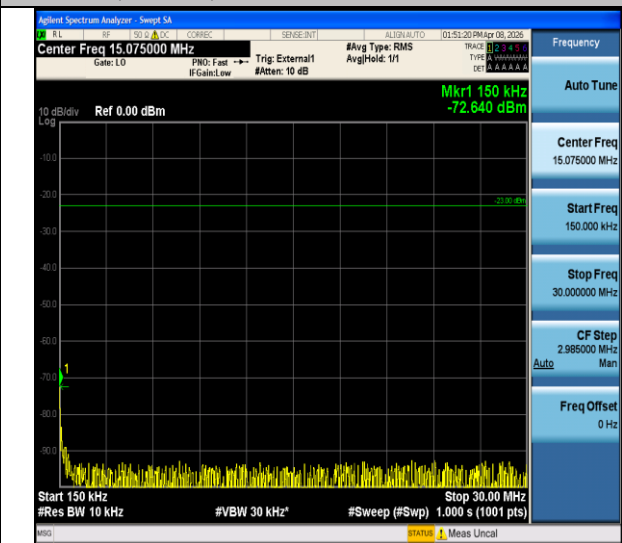
Band26(814-824)-0.18-BPSK-26740-30-1000-PASS



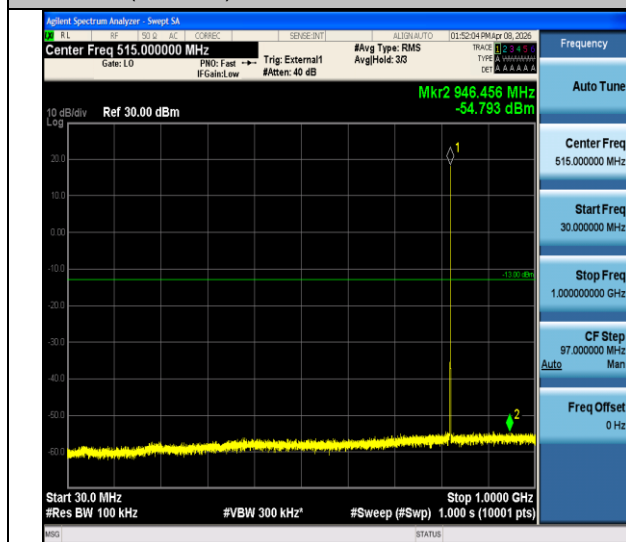
Band26(814-824)-0.18-BPSK-26740-1000-10000-PASS



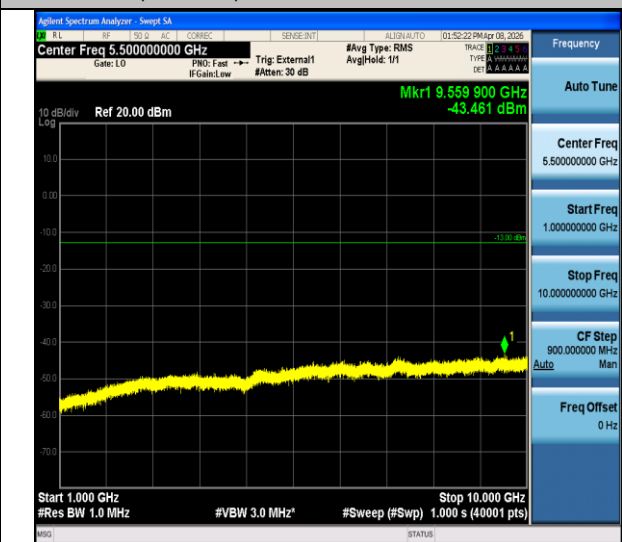
Band26(814-824)-0.18-BPSK-26788-0.009-0.15-PASS



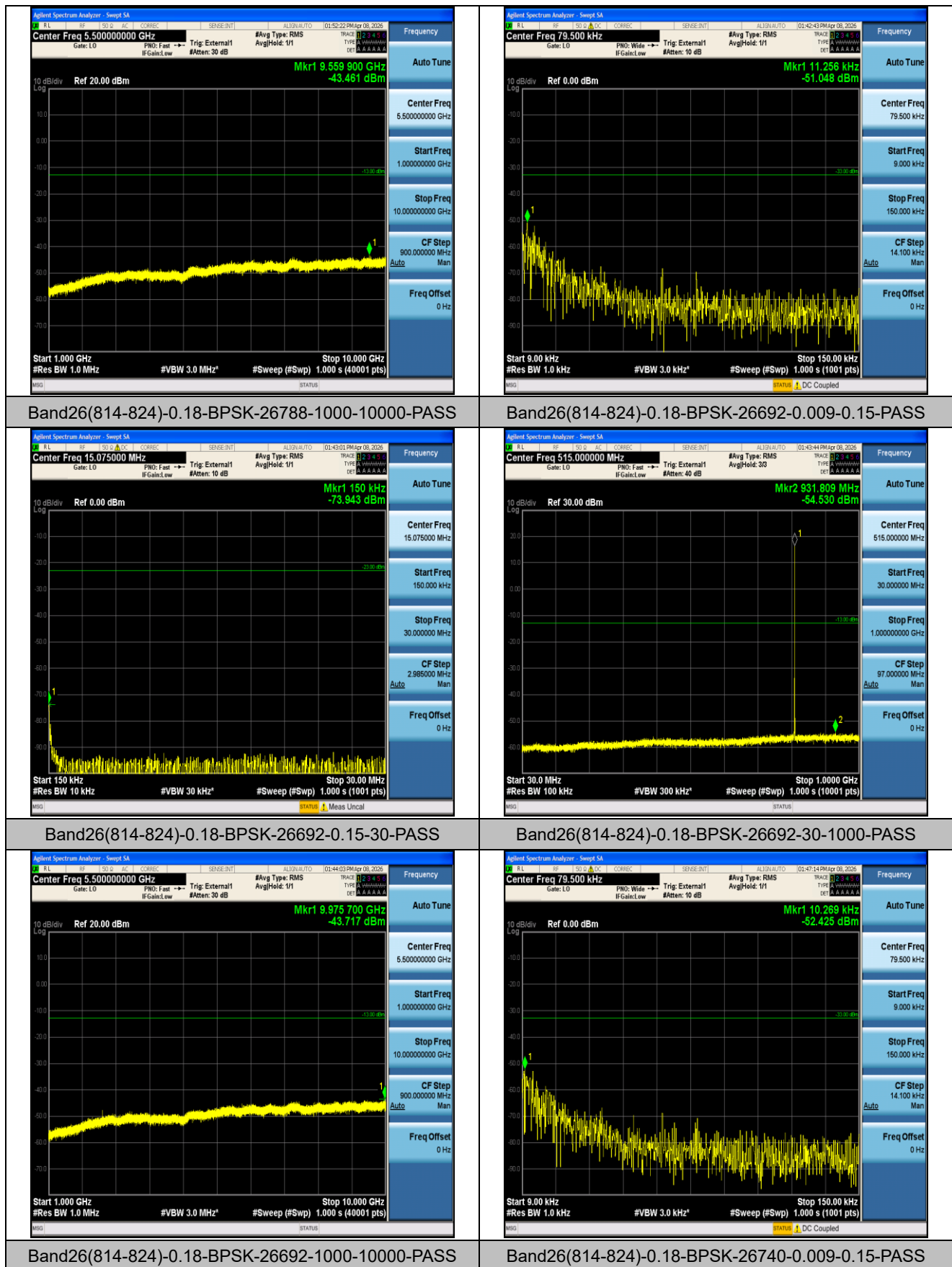
Band26(814-824)-0.18-BPSK-26788-0.15-30-PASS

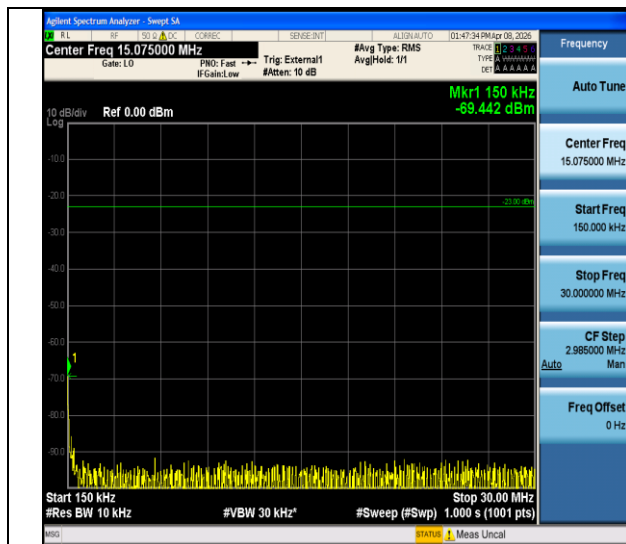


Band26(814-824)-0.18-BPSK-26788-30-1000-PASS

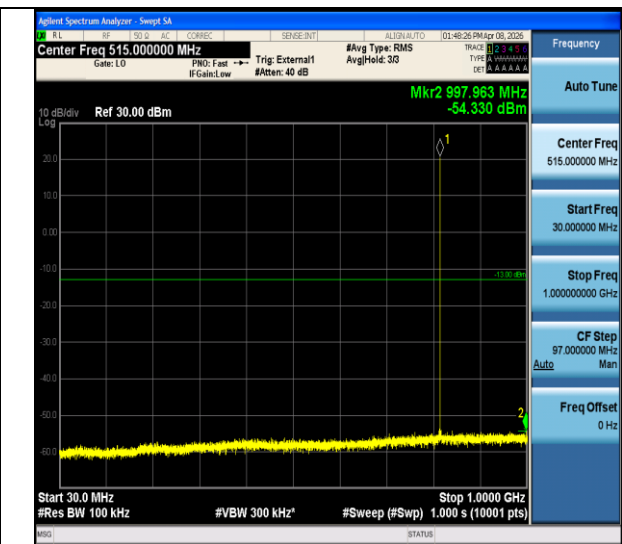


Band26(814-824)-0.18-BPSK-26788-1000-10000-PASS





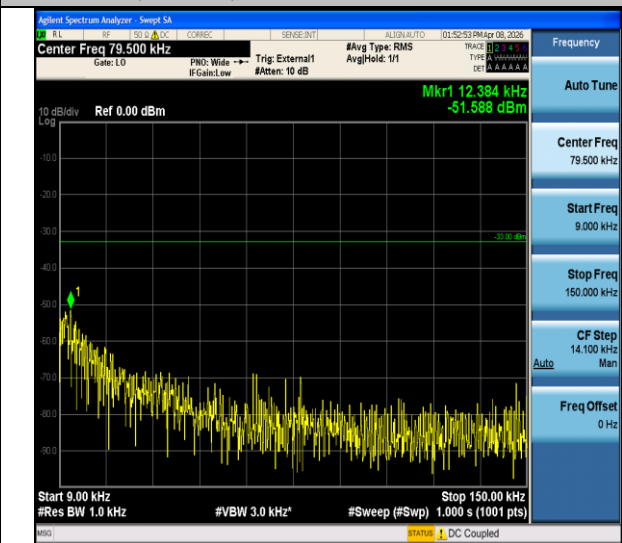
Band26(814-824)-0.18-BPSK-26740-0.15-30-PASS



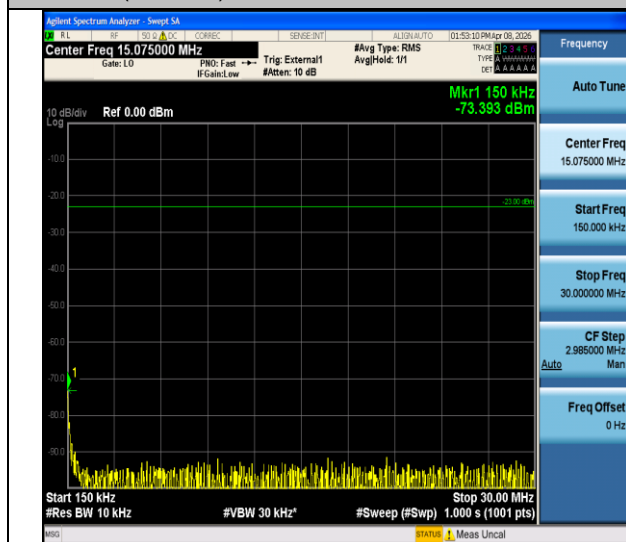
Band26(814-824)-0.18-BPSK-26740-30-1000-PASS



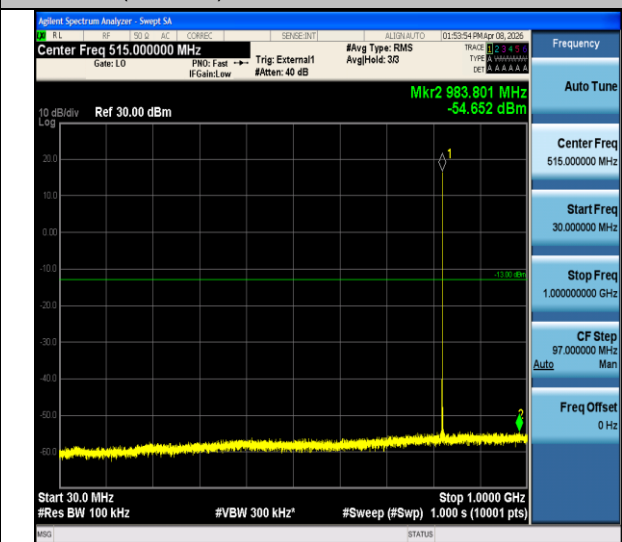
Band26(814-824)-0.18-BPSK-26740-1000-10000-PASS



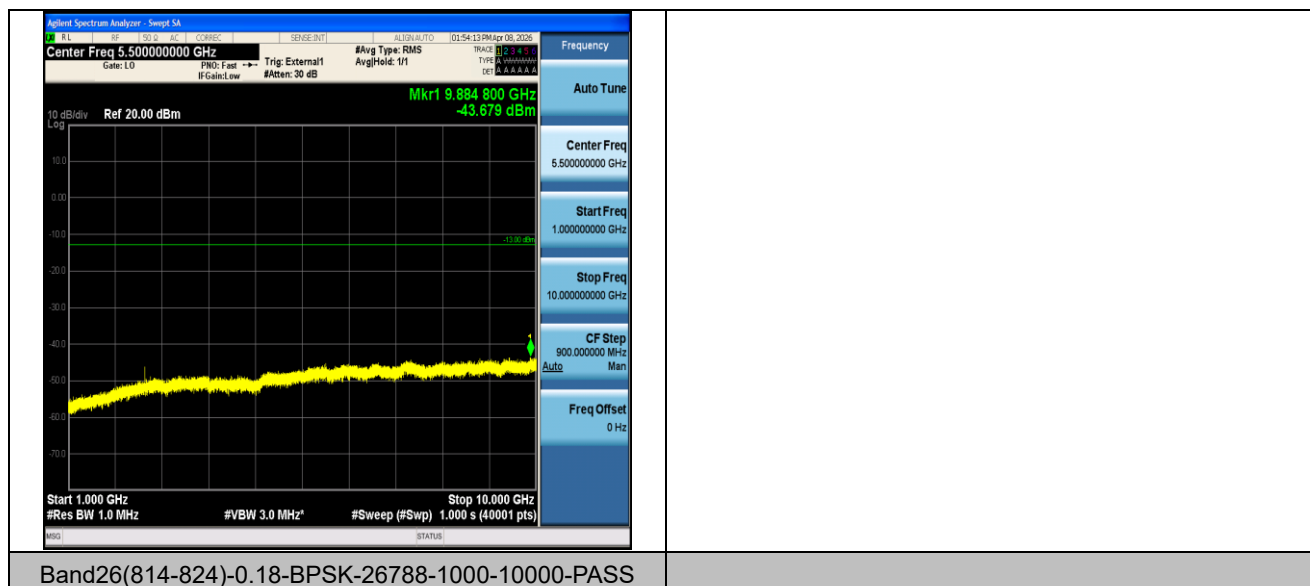
Band26(814-824)-0.18-BPSK-26788-0.009-0.15-PASS



Band26(814-824)-0.18-BPSK-26788-0.15-30-PASS



Band26(814-824)-0.18-BPSK-26788-30-1000-PASS



Frequency Stability for NB

Test Result

Voltage											
Band	OpMode	SCS	Bandwidth	Modulation	Channel	Tones	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band26 (814-824)	Stand-Alone	15kHz	0.18	BPSK	26740	12@0	VN	NT	11.80	0.014408	PASS
Band26 (814-824)	Stand-Alone	15kHz	0.18	BPSK	26740	12@0	VL	NT	11.40	0.013919	PASS
Band26 (814-824)	Stand-Alone	15kHz	0.18	BPSK	26740	12@0	VH	NT	11.00	0.013431	PASS

Temperature											
Band	OpMode	Bandwidth	Modulation	Channel	Tones	SCS	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band26 (814-824)	Stand-Alone	15kHz	0.18	BPSK	26740	12@0	NV	-30	8.60	0.010501	PASS
Band26 (814-824)	Stand-Alone	15kHz	0.18	BPSK	26740	12@0	NV	-20	9.90	0.012088	PASS
Band26 (814-824)	Stand-Alone	15kHz	0.18	BPSK	26740	12@0	NV	-10	10.60	0.012943	PASS
Band26 (814-824)	Stand-Alone	15kHz	0.18	BPSK	26740	12@0	NV	0	11.40	0.013919	PASS
Band26 (814-824)	Stand-Alone	15kHz	0.18	BPSK	26740	12@0	NV	10	8.60	0.010501	PASS
Band26 (814-824)	Stand-Alone	15kHz	0.18	BPSK	26740	12@0	NV	20	9.50	0.011600	PASS
Band26 (814-824)	Stand-Alone	15kHz	0.18	BPSK	26740	12@0	NV	30	9.20	0.011233	PASS
Band26 (814-824)	Stand-Alone	15kHz	0.18	BPSK	26740	12@0	NV	40	9.80	0.011966	PASS
Band26 (814-824)	Stand-Alone	15kHz	0.18	BPSK	26740	12@0	NV	50	9.70	0.011844	PASS

~The End~