

Appendix-B LTE NB-IoT Band 26 (824-849)

Effective (Isotropic) Radiated Power Output Data for NB

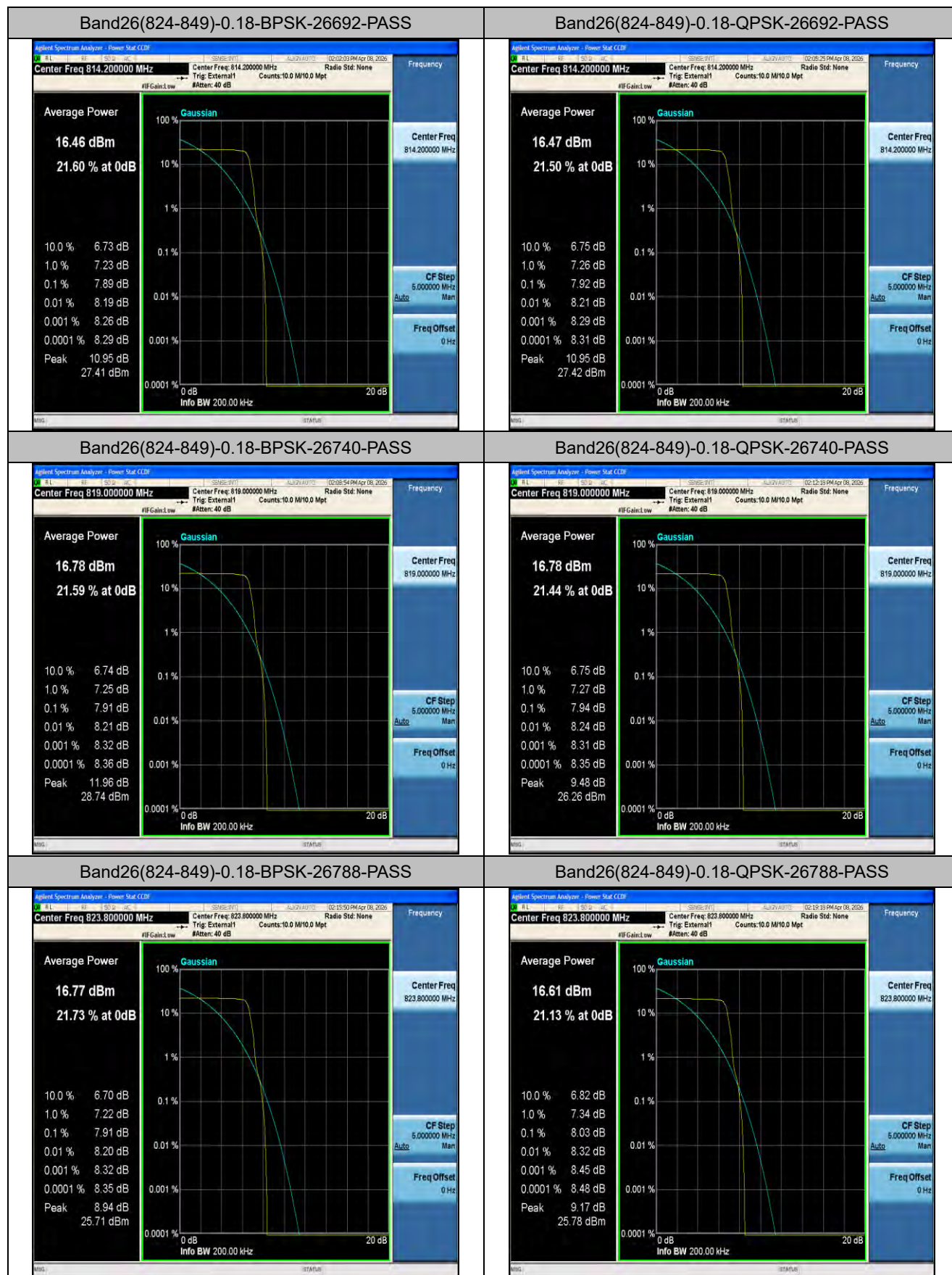
Test Result

Band	OpMode	SCS	BW	Modulation	Channel	Tones	Result (dBm)	ERP (dBm)	Limit (dBm)	Verdict
Band26(824-849)	Stand-Alone	3.75kHz	0.18	BPSK	26792	1@0	21.89	26.64	38.45	PASS
Band26(824-849)	Stand-Alone	3.75kHz	0.18	QPSK	26792	1@0	21.76	26.51	38.45	PASS
Band26(824-849)	Stand-Alone	3.75kHz	0.18	BPSK	26792	1@47	14.9	19.65	38.45	PASS
Band26(824-849)	Stand-Alone	3.75kHz	0.18	QPSK	26792	1@47	21.67	26.42	38.45	PASS
Band26(824-849)	Stand-Alone	3.75kHz	0.18	BPSK	26915	1@0	21.33	26.08	38.45	PASS
Band26(824-849)	Stand-Alone	3.75kHz	0.18	QPSK	26915	1@0	21.19	25.94	38.45	PASS
Band26(824-849)	Stand-Alone	3.75kHz	0.18	BPSK	26915	1@47	21.21	25.96	38.45	PASS
Band26(824-849)	Stand-Alone	3.75kHz	0.18	QPSK	26915	1@47	21.17	25.92	38.45	PASS
Band26(824-849)	Stand-Alone	3.75kHz	0.18	BPSK	27038	1@0	21.03	25.78	38.45	PASS
Band26(824-849)	Stand-Alone	3.75kHz	0.18	QPSK	27038	1@0	20.94	25.69	38.45	PASS
Band26(824-849)	Stand-Alone	3.75kHz	0.18	BPSK	27038	1@47	20.9	25.65	38.45	PASS
Band26(824-849)	Stand-Alone	3.75kHz	0.18	QPSK	27038	1@47	20.87	25.62	38.45	PASS
Band26(824-849)	Stand-Alone	15kHz	0.18	BPSK	26792	1@0	22.21	26.96	38.45	PASS
Band26(824-849)	Stand-Alone	15kHz	0.18	QPSK	26792	1@0	22.24	26.99	38.45	PASS
Band26(824-849)	Stand-Alone	15kHz	0.18	BPSK	26792	1@11	22.25	27	38.45	PASS
Band26(824-849)	Stand-Alone	15kHz	0.18	QPSK	26792	1@11	22.29	27.04	38.45	PASS
Band26(824-849)	Stand-Alone	15kHz	0.18	BPSK	26915	1@0	21.94	26.69	38.45	PASS
Band26(824-849)	Stand-Alone	15kHz	0.18	QPSK	26915	1@0	21.92	26.67	38.45	PASS
Band26(824-849)	Stand-Alone	15kHz	0.18	BPSK	26915	1@11	21.91	26.66	38.45	PASS
Band26(824-849)	Stand-Alone	15kHz	0.18	QPSK	26915	1@11	21.96	26.71	38.45	PASS
Band26(824-849)	Stand-Alone	15kHz	0.18	BPSK	27038	1@0	21.71	26.46	38.45	PASS
Band26(824-849)	Stand-Alone	15kHz	0.18	QPSK	27038	1@0	21.69	26.44	38.45	PASS
Band26(824-849)	Stand-Alone	15kHz	0.18	BPSK	27038	1@11	21.69	26.44	38.45	PASS
Band26(824-849)	Stand-Alone	15kHz	0.18	QPSK	27038	1@11	21.7	26.45	38.45	PASS
Band26(824-849)	Stand-Alone	15kHz	0.18	QPSK	26792	3@3	23.41	28.16	38.45	PASS
Band26(824-849)	Stand-Alone	15kHz	0.18	QPSK	26915	3@3	23	27.75	38.45	PASS
Band26(824-849)	Stand-Alone	15kHz	0.18	QPSK	27038	3@3	22.71	27.46	38.45	PASS

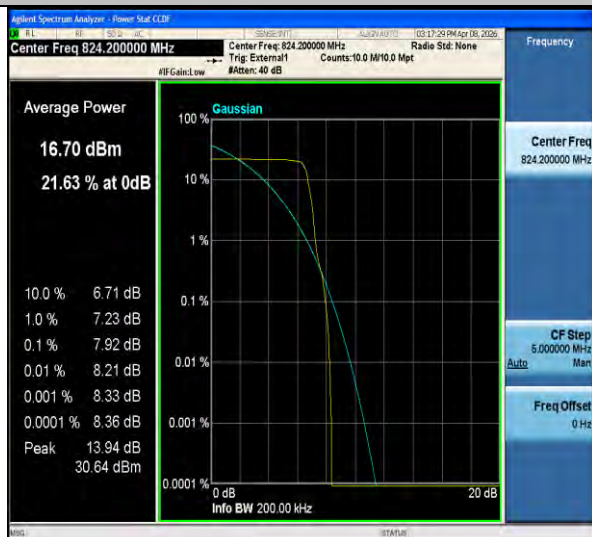
Peak-to-Average Ratio(CCDF) for NB**Test Result**

Band	OpMode	SCS	BW	Modulation	Channel	Tones	Result (dB)	Limit (dB)	Verdict
Band26(824-849)	Stand-Alone	15kHz	0.18	BPSK	26692	12@0	7.89	<=13	PASS
Band26(824-849)	Stand-Alone	15kHz	0.18	QPSK	26692	12@0	7.92	<=13	PASS
Band26(824-849)	Stand-Alone	15kHz	0.18	BPSK	26740	12@0	7.91	<=13	PASS
Band26(824-849)	Stand-Alone	15kHz	0.18	QPSK	26740	12@0	7.94	<=13	PASS
Band26(824-849)	Stand-Alone	15kHz	0.18	BPSK	26788	12@0	7.91	<=13	PASS
Band26(824-849)	Stand-Alone	15kHz	0.18	QPSK	26788	12@0	8.03	<=13	PASS
Band26(824-849)	Stand-Alone	15kHz	0.18	BPSK	26792	12@0	7.92	<=13	PASS
Band26(824-849)	Stand-Alone	15kHz	0.18	BPSK	26915	12@0	8.01	<=13	PASS
Band26(824-849)	Stand-Alone	15kHz	0.18	BPSK	27038	12@0	7.85	<=13	PASS
Band26(824-849)	Stand-Alone	15kHz	0.18	QPSK	26792	12@0	7.92	<=13	PASS
Band26(824-849)	Stand-Alone	15kHz	0.18	QPSK	26915	12@0	7.91	<=13	PASS
Band26(824-849)	Stand-Alone	15kHz	0.18	QPSK	27038	12@0	7.92	<=13	PASS

Test Graphs



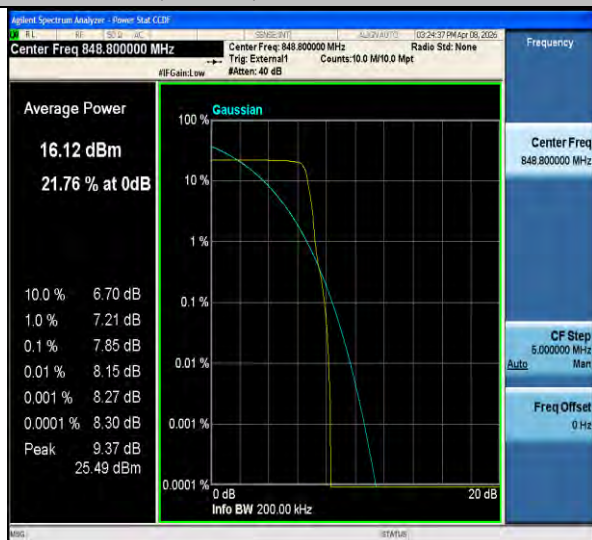
Band26(824-849)-0.18-BPSK-26792-PASS



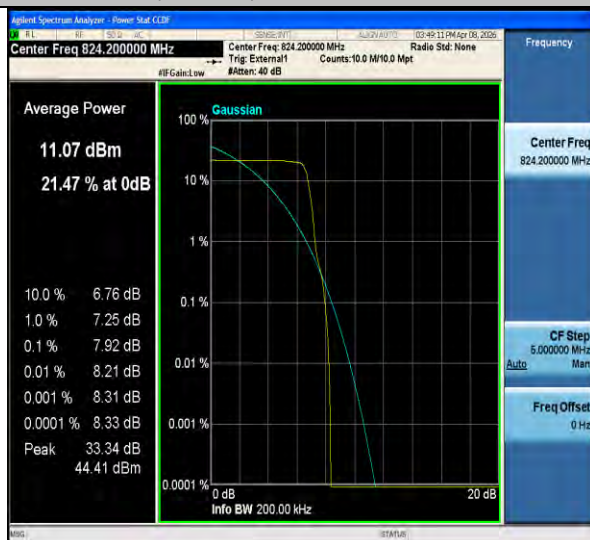
Band26(824-849)-0.18-BPSK-26915-PASS



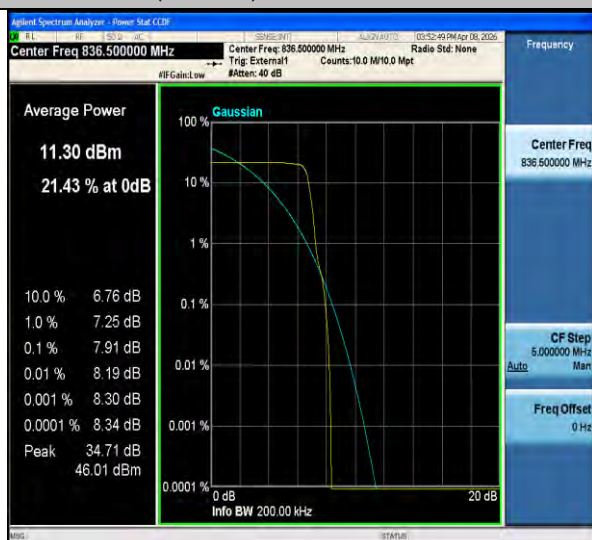
Band26(824-849)-0.18-BPSK-27038-PASS



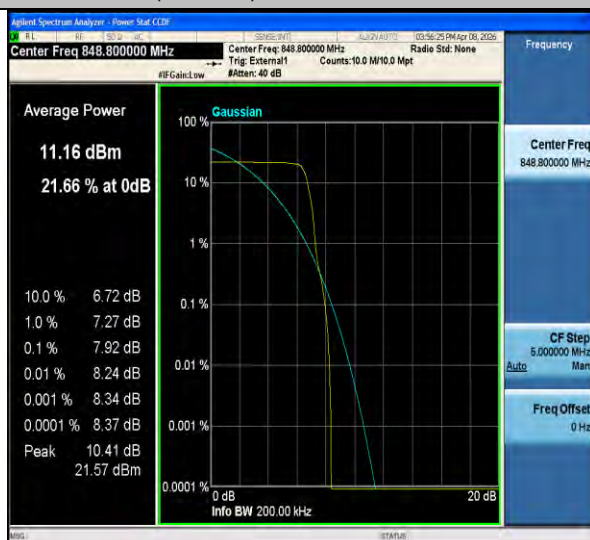
Band26(824-849)-0.18-QPSK-26792-PASS



Band26(824-849)-0.18-QPSK-26915-PASS



Band26(824-849)-0.18-QPSK-27038-PASS

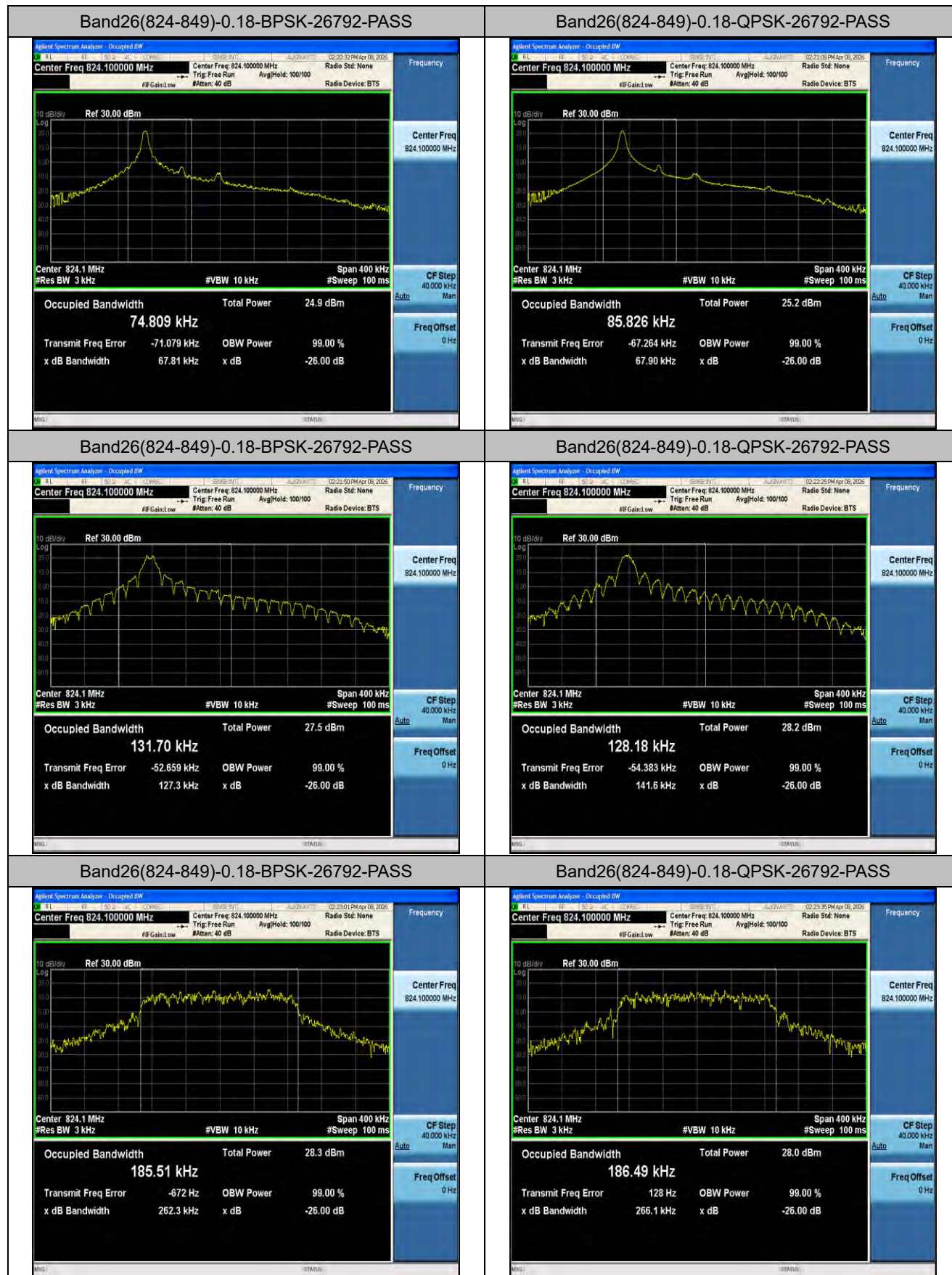


Emission Bandwidth for NB

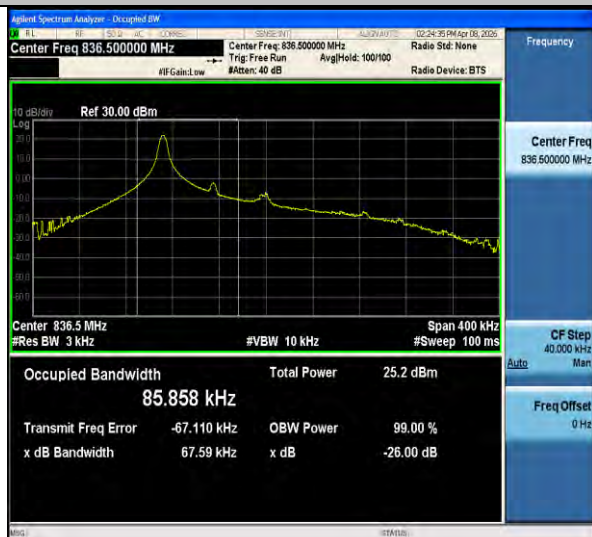
Test Result

Band	OpMode	SCS	BW	Modulation	Channel	Tones	OBW(MHz)	EBW(MHz)	Verdict
Band26(824-849)	Stand-Alone	3.75kHz	0.18	BPSK	26792	1@0	0.07481	0.0678	PASS
Band26(824-849)	Stand-Alone	3.75kHz	0.18	QPSK	26792	1@0	0.08583	0.0679	PASS
Band26(824-849)	Stand-Alone	15kHz	0.18	BPSK	26792	1@0	0.13170	0.1273	PASS
Band26(824-849)	Stand-Alone	15kHz	0.18	QPSK	26792	1@0	0.12818	0.1416	PASS
Band26(824-849)	Stand-Alone	15kHz	0.18	BPSK	26792	12@0	0.18551	0.2623	PASS
Band26(824-849)	Stand-Alone	15kHz	0.18	QPSK	26792	12@0	0.18649	0.2661	PASS
Band26(824-849)	Stand-Alone	3.75kHz	0.18	BPSK	26915	1@0	0.08586	0.0676	PASS
Band26(824-849)	Stand-Alone	3.75kHz	0.18	QPSK	26915	1@0	0.08755	0.0676	PASS
Band26(824-849)	Stand-Alone	15kHz	0.18	BPSK	26915	1@0	0.12825	0.1259	PASS
Band26(824-849)	Stand-Alone	15kHz	0.18	QPSK	26915	1@0	0.12905	0.1407	PASS
Band26(824-849)	Stand-Alone	15kHz	0.18	BPSK	26915	12@0	0.18639	0.2545	PASS
Band26(824-849)	Stand-Alone	15kHz	0.18	QPSK	26915	12@0	0.18664	0.2647	PASS
Band26(824-849)	Stand-Alone	3.75kHz	0.18	BPSK	27038	1@0	0.07483	0.0674	PASS
Band26(824-849)	Stand-Alone	3.75kHz	0.18	QPSK	27038	1@0	0.08595	0.0679	PASS
Band26(824-849)	Stand-Alone	15kHz	0.18	BPSK	27038	1@0	0.12829	0.1210	PASS
Band26(824-849)	Stand-Alone	15kHz	0.18	QPSK	27038	1@0	0.12864	0.1311	PASS
Band26(824-849)	Stand-Alone	15kHz	0.18	BPSK	27038	12@0	0.18902	0.2903	PASS
Band26(824-849)	Stand-Alone	15kHz	0.18	QPSK	27038	12@0	0.18854	0.2758	PASS

Test Graphs



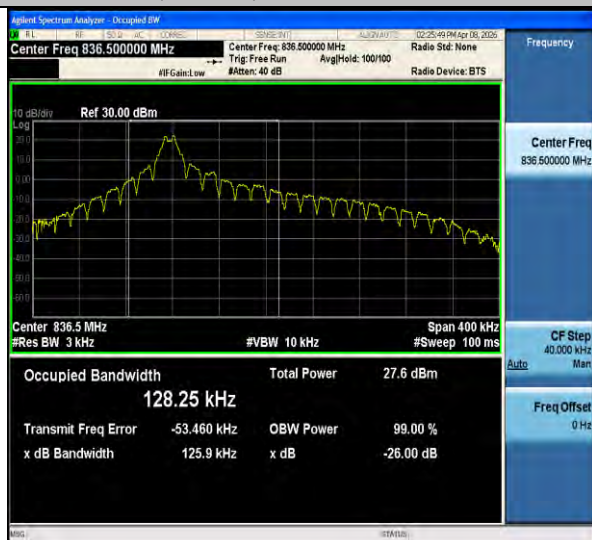
Band26(824-849)-0.18-BPSK-26915-PASS



Band26(824-849)-0.18-QPSK-26915-PASS



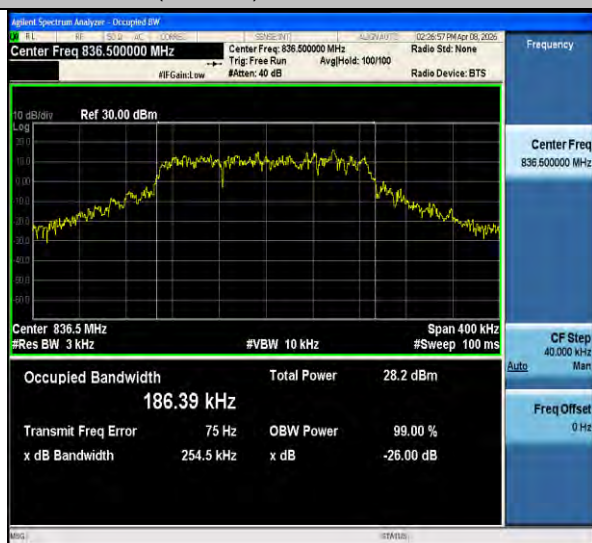
Band26(824-849)-0.18-BPSK-26915-PASS



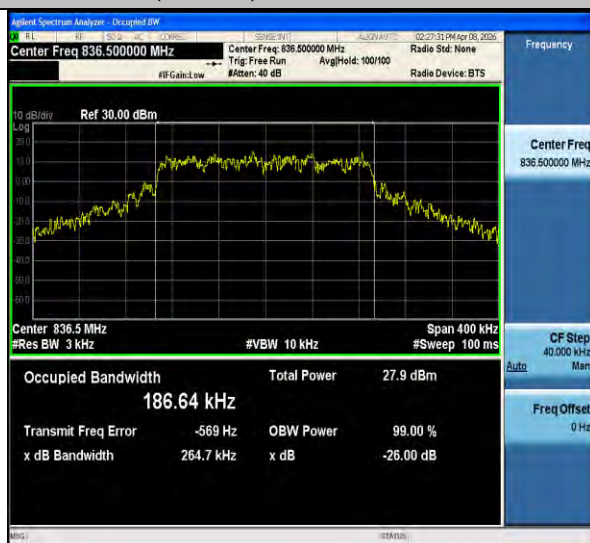
Band26(824-849)-0.18-QPSK-26915-PASS



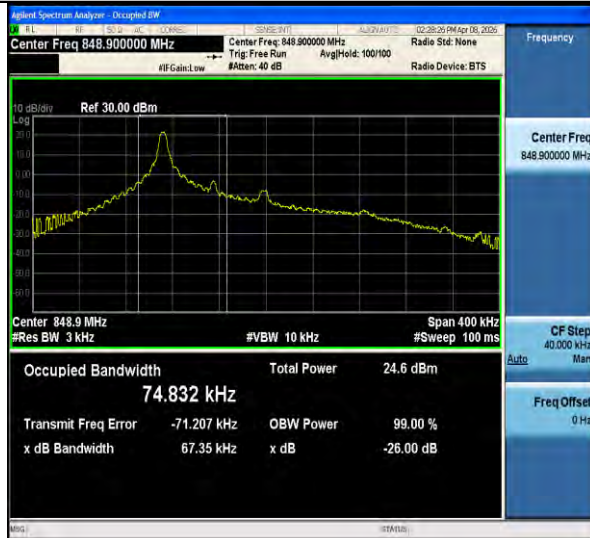
Band26(824-849)-0.18-BPSK-26915-PASS



Band26(824-849)-0.18-QPSK-26915-PASS



Band26(824-849)-0.18-BPSK-27038-PASS



Band26(824-849)-0.18-QPSK-27038-PASS



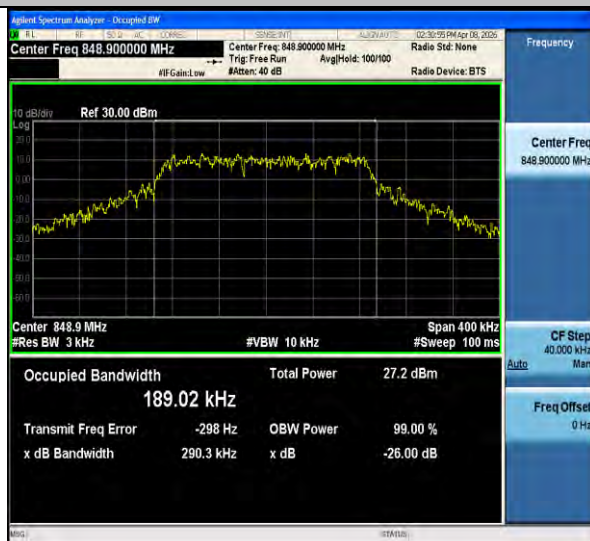
Band26(824-849)-0.18-BPSK-27038-PASS



Band26(824-849)-0.18-QPSK-27038-PASS



Band26(824-849)-0.18-BPSK-27038-PASS

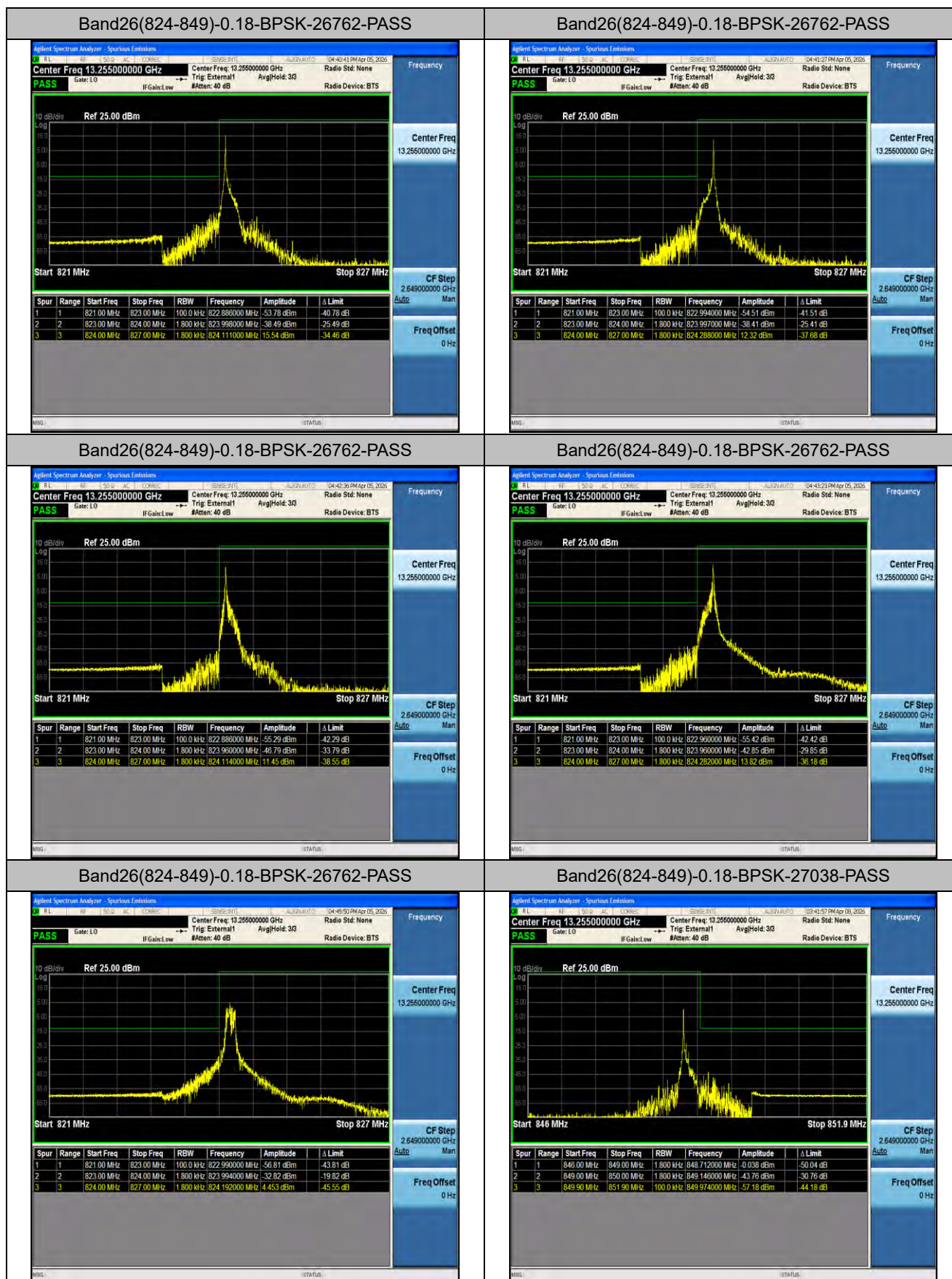


Band26(824-849)-0.18-QPSK-27038-PASS

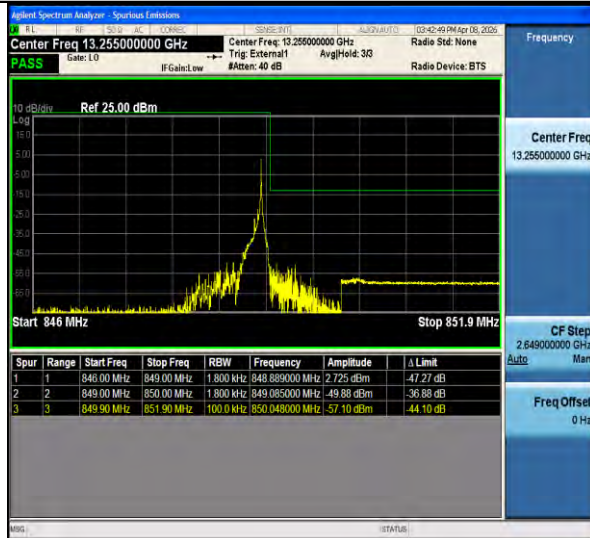


Band Edge for NB

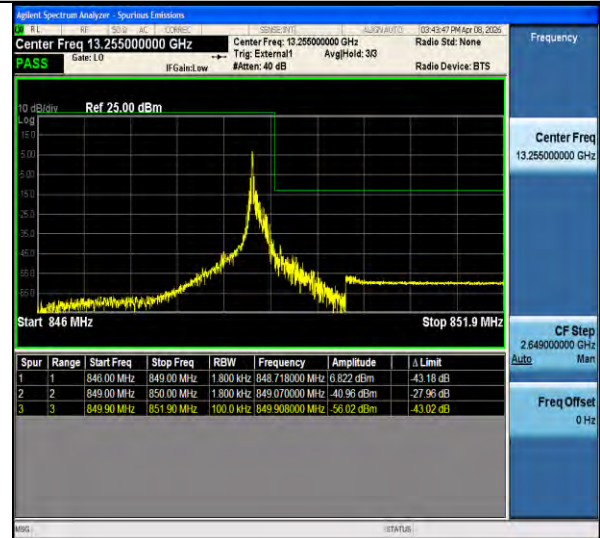
Test Graphs



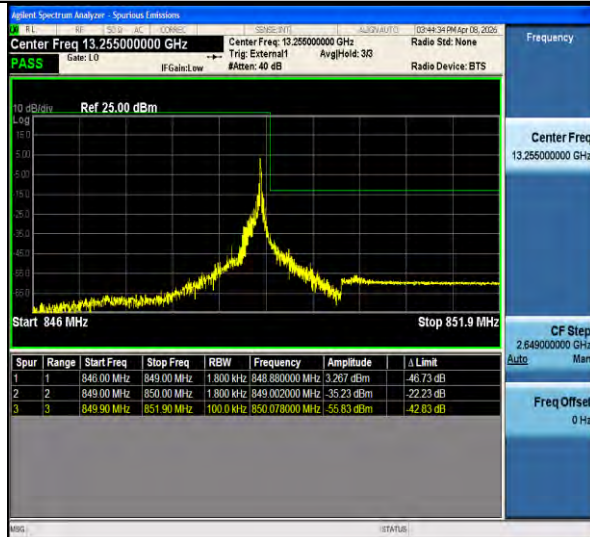
Band26(824-849)-0.18-BPSK-27038-PASS



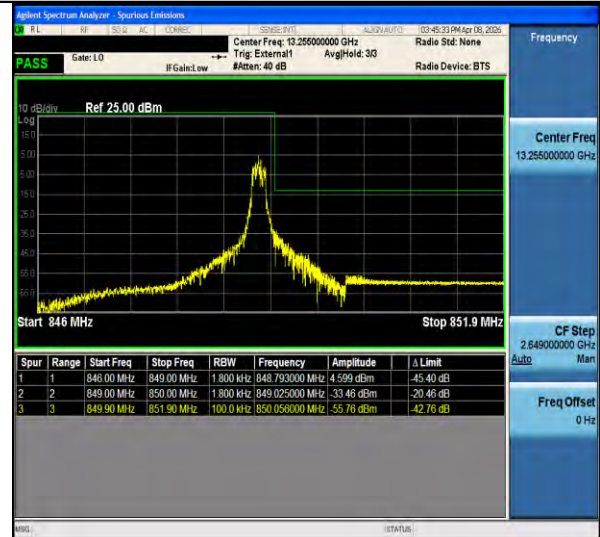
Band26(824-849)-0.18-BPSK-27038-PASS



Band26(824-849)-0.18-BPSK-27038-PASS

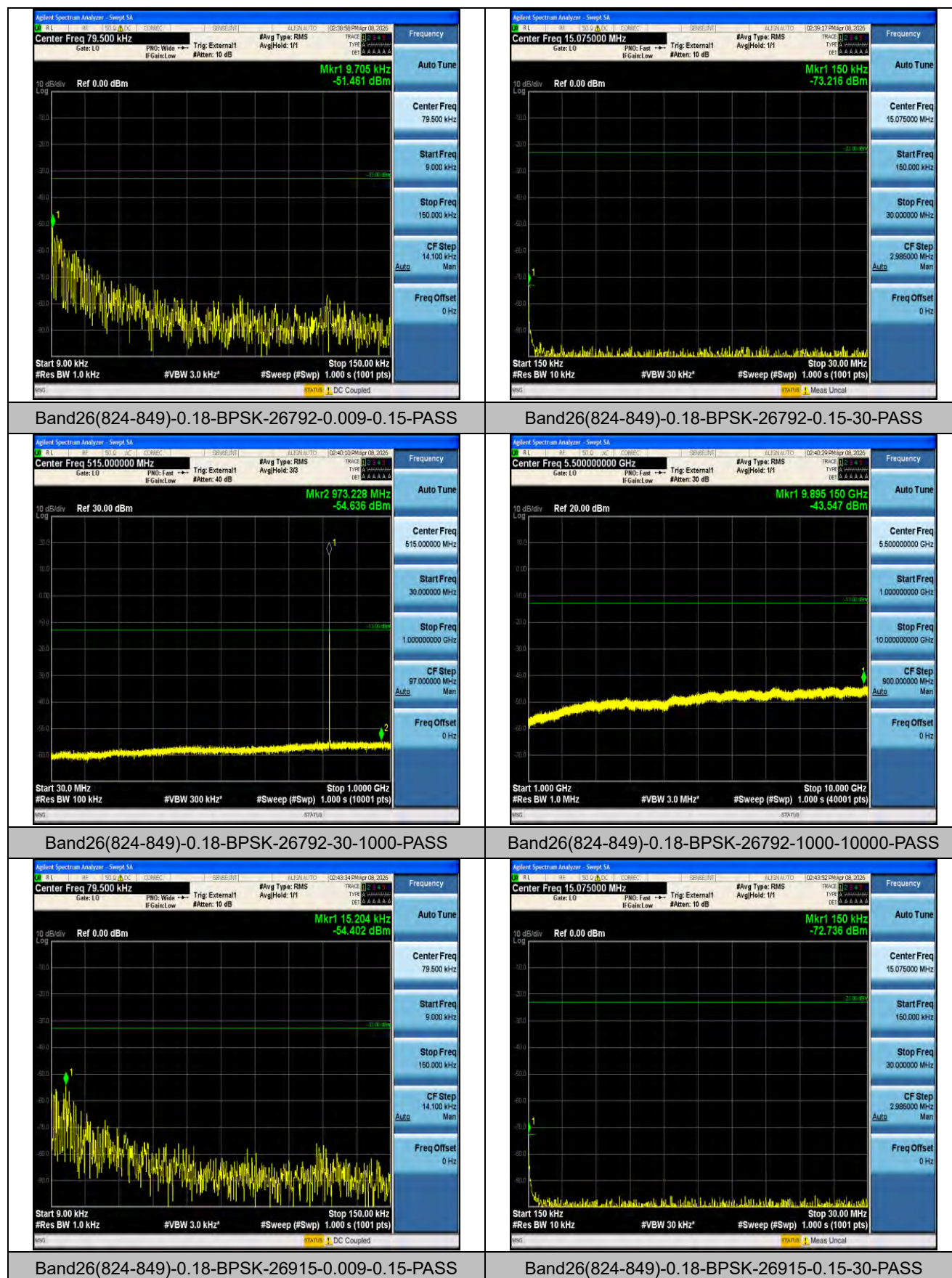


Band26(824-849)-0.18-BPSK-27038-PASS



Conducted Spurious Emission for NB

Test Graphs

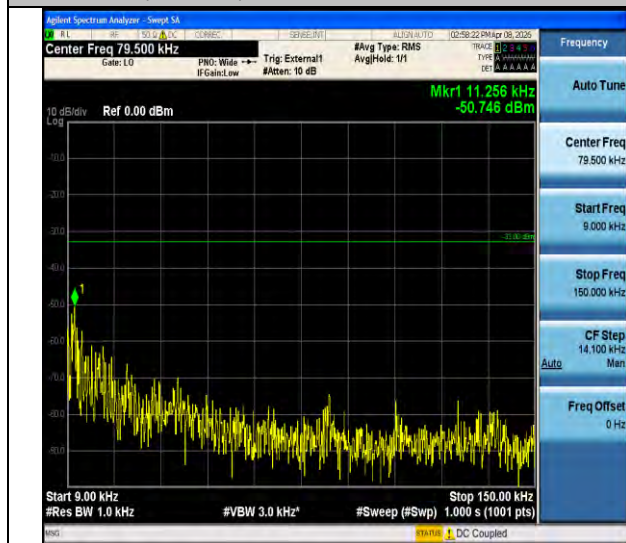




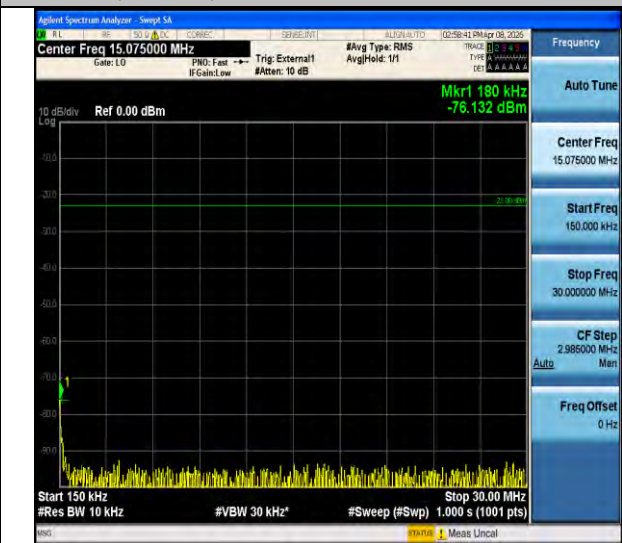
Band26(824-849)-0.18-BPSK-26915-30-1000-PASS



Band26(824-849)-0.18-BPSK-26915-1000-10000-PASS



Band26(824-849)-0.18-BPSK-27038-0.009-0.15-PASS



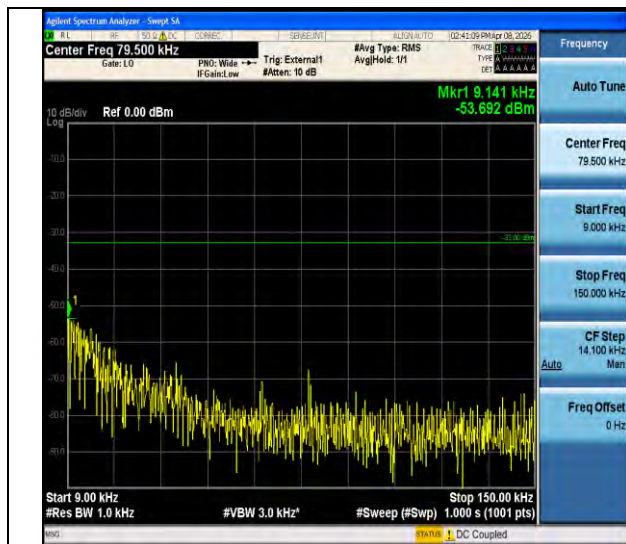
Band26(824-849)-0.18-BPSK-27038-0.15-30-PASS



Band26(824-849)-0.18-BPSK-27038-30-1000-PASS



Band26(824-849)-0.18-BPSK-27038-1000-10000-PASS



Band26(824-849)-0.18-BPSK-26792-0.009-0.15-PASS



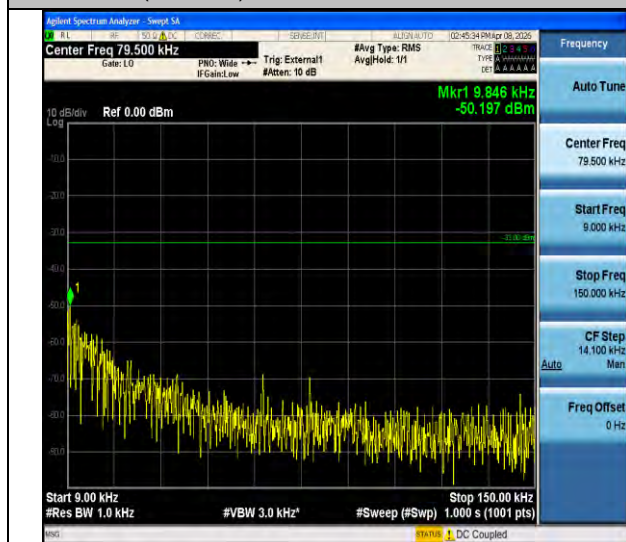
Band26(824-849)-0.18-BPSK-26792-0.15-30-PASS



Band26(824-849)-0.18-BPSK-26792-30-1000-PASS



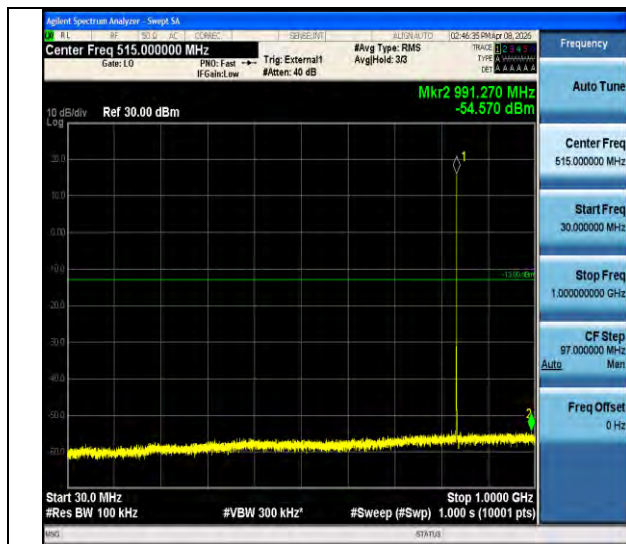
Band26(824-849)-0.18-BPSK-26792-1000-10000-PASS



Band26(824-849)-0.18-BPSK-26915-0.009-0.15-PASS



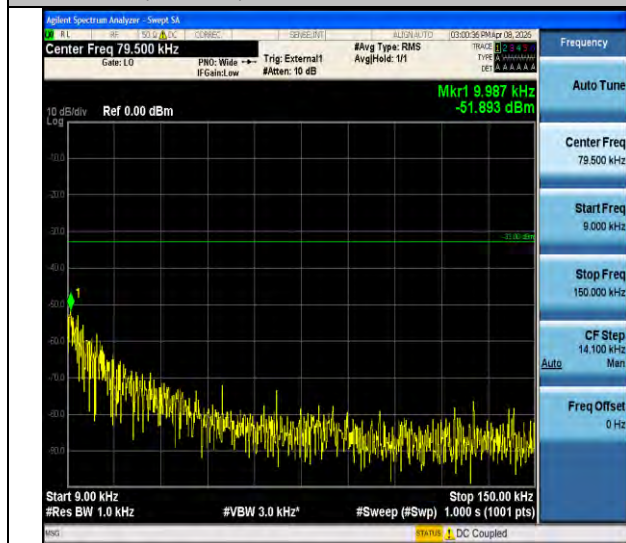
Band26(824-849)-0.18-BPSK-26915-0.15-30-PASS



Band26(824-849)-0.18-BPSK-26915-30-1000-PASS



Band26(824-849)-0.18-BPSK-26915-1000-10000-PASS



Band26(824-849)-0.18-BPSK-27038-0.009-0.15-PASS



Band26(824-849)-0.18-BPSK-27038-0.15-30-PASS



Band26(824-849)-0.18-BPSK-27038-30-1000-PASS



Band26(824-849)-0.18-BPSK-27038-1000-10000-PASS

Frequency Stability for NB

Test Result

Voltage												
Band	OpMode	SCS	Bandwidth	Modulation	Channel	Tones	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band26 (824-849)	Stand-Alone	15kHz	0.18	BPSK	26915	12@0	VN	NT	5.70	0.006814	±2.5	PASS
Band26 (824-849)	Stand-Alone	15kHz	0.18	BPSK	26915	12@0	VL	NT	5.90	0.007053	±2.5	PASS
Band26 (824-849)	Stand-Alone	15kHz	0.18	BPSK	26915	12@0	VH	NT	7.60	0.009085	±2.5	PASS

Temperature												
Band	OpMode	SCS	Bandwidth	Modulation	Channel	Tones	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band26 (824-849)	Stand-Alone	15kHz	0.18	BPSK	26915	12@0	NV	-30	7.80	0.009325	±2.5	PASS
Band26 (824-849)	Stand-Alone	15kHz	0.18	BPSK	26915	12@0	NV	-20	6.00	0.007173	±2.5	PASS
Band26 (824-849)	Stand-Alone	15kHz	0.18	BPSK	26915	12@0	NV	-10	6.30	0.007531	±2.5	PASS
Band26 (824-849)	Stand-Alone	15kHz	0.18	BPSK	26915	12@0	NV	0	7.00	0.008368	±2.5	PASS
Band26 (824-849)	Stand-Alone	15kHz	0.18	BPSK	26915	12@0	NV	10	4.90	0.005858	±2.5	PASS
Band26 (824-849)	Stand-Alone	15kHz	0.18	BPSK	26915	12@0	NV	20	5.20	0.006216	±2.5	PASS
Band26 (824-849)	Stand-Alone	15kHz	0.18	BPSK	26915	12@0	NV	30	5.20	0.006216	±2.5	PASS
Band26 (824-849)	Stand-Alone	15kHz	0.18	BPSK	26915	12@0	NV	40	5.40	0.006455	±2.5	PASS
Band26 (824-849)	Stand-Alone	15kHz	0.18	BPSK	26915	12@0	NV	50	5.40	0.006455	±2.5	PASS

~The End~