

Appendix-B LTE NB-IoT Band 66

Effective (Isotropic) Radiated Power Output Data for NB

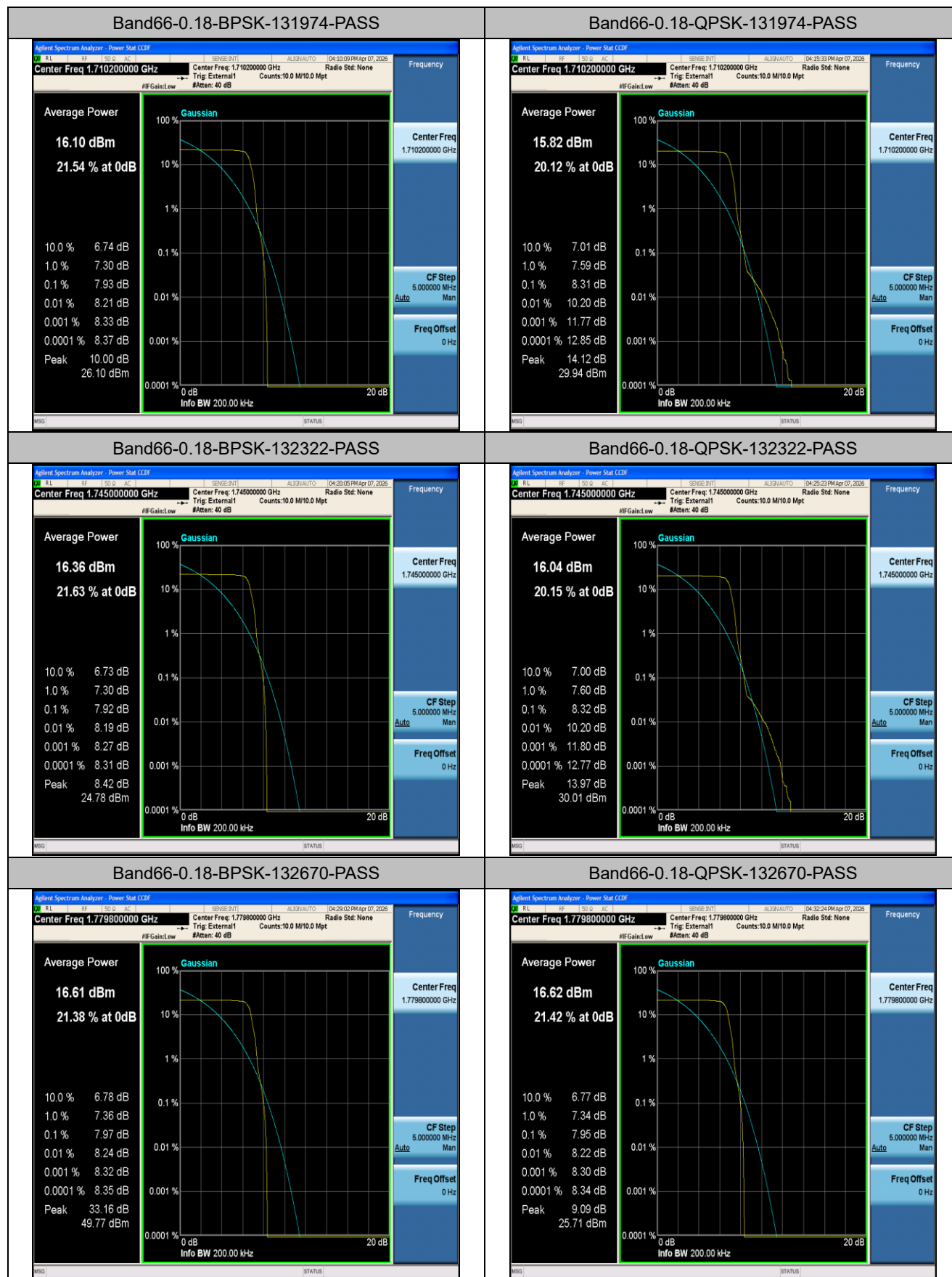
Test Result

Band	OpMode	SCS	BW	Modulation	Channel	Tones	Result (dBm)	EIRP (dBm)	Limit (dBm)	Verdict
Band66	Stand-Alone	3.75kHz	0.18	BPSK	131974	1@0	21.74	26.54	30.00	PASS
Band66	Stand-Alone	3.75kHz	0.18	QPSK	131974	1@0	21.57	26.37	30.00	PASS
Band66	Stand-Alone	3.75kHz	0.18	BPSK	131974	1@47	21.55	26.35	30.00	PASS
Band66	Stand-Alone	3.75kHz	0.18	QPSK	131974	1@47	21.51	26.31	30.00	PASS
Band66	Stand-Alone	3.75kHz	0.18	BPSK	132322	1@0	22.06	26.86	30.00	PASS
Band66	Stand-Alone	3.75kHz	0.18	QPSK	132322	1@0	21.92	26.72	30.00	PASS
Band66	Stand-Alone	3.75kHz	0.18	BPSK	132322	1@47	21.89	26.69	30.00	PASS
Band66	Stand-Alone	3.75kHz	0.18	QPSK	132322	1@47	21.82	26.62	30.00	PASS
Band66	Stand-Alone	3.75kHz	0.18	BPSK	132670	1@0	22.07	26.87	30.00	PASS
Band66	Stand-Alone	3.75kHz	0.18	QPSK	132670	1@0	21.98	26.78	30.00	PASS
Band66	Stand-Alone	3.75kHz	0.18	BPSK	132670	1@47	21.9	26.7	30.00	PASS
Band66	Stand-Alone	3.75kHz	0.18	QPSK	132670	1@47	21.85	26.65	30.00	PASS
Band66	Stand-Alone	15kHz	0.18	BPSK	131974	1@0	22.1	26.9	30.00	PASS
Band66	Stand-Alone	15kHz	0.18	QPSK	131974	1@0	22.05	26.85	30.00	PASS
Band66	Stand-Alone	15kHz	0.18	BPSK	131974	1@11	22.06	26.86	30.00	PASS
Band66	Stand-Alone	15kHz	0.18	QPSK	131974	1@11	22.09	26.89	30.00	PASS
Band66	Stand-Alone	15kHz	0.18	BPSK	132322	1@0	22.51	27.31	30.00	PASS
Band66	Stand-Alone	15kHz	0.18	QPSK	132322	1@0	22.45	27.25	30.00	PASS
Band66	Stand-Alone	15kHz	0.18	BPSK	132322	1@11	22.44	27.24	30.00	PASS
Band66	Stand-Alone	15kHz	0.18	QPSK	132322	1@11	22.44	27.24	30.00	PASS
Band66	Stand-Alone	15kHz	0.18	BPSK	132670	1@0	22.62	27.42	30.00	PASS
Band66	Stand-Alone	15kHz	0.18	QPSK	132670	1@0	22.54	27.34	30.00	PASS
Band66	Stand-Alone	15kHz	0.18	BPSK	132670	1@11	22.54	27.34	30.00	PASS
Band66	Stand-Alone	15kHz	0.18	QPSK	132670	1@11	22.5	27.3	30.00	PASS
Band66	Stand-Alone	15kHz	0.18	QPSK	131974	3@3	22.88	27.68	30.00	PASS
Band66	Stand-Alone	15kHz	0.18	QPSK	132322	3@3	23.24	28.04	30.00	PASS
Band66	Stand-Alone	15kHz	0.18	QPSK	132670	3@3	23.33	28.13	30.00	PASS

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

Band	OpMode	SCS	BW	Modulation	Channel	Tones	Result (dB)	Limit (dB)	Verdict
Band66	Stand-Alone	15kHz	0.18	BPSK	131974	12@0	7.93	<=13	PASS
Band66	Stand-Alone	15kHz	0.18	QPSK	131974	12@0	8.31	<=13	PASS
Band66	Stand-Alone	15kHz	0.18	BPSK	132322	12@0	7.92	<=13	PASS
Band66	Stand-Alone	15kHz	0.18	QPSK	132322	12@0	8.32	<=13	PASS
Band66	Stand-Alone	15kHz	0.18	BPSK	132670	12@0	7.97	<=13	PASS
Band66	Stand-Alone	15kHz	0.18	QPSK	132670	12@0	7.95	<=13	PASS

Test Graphs

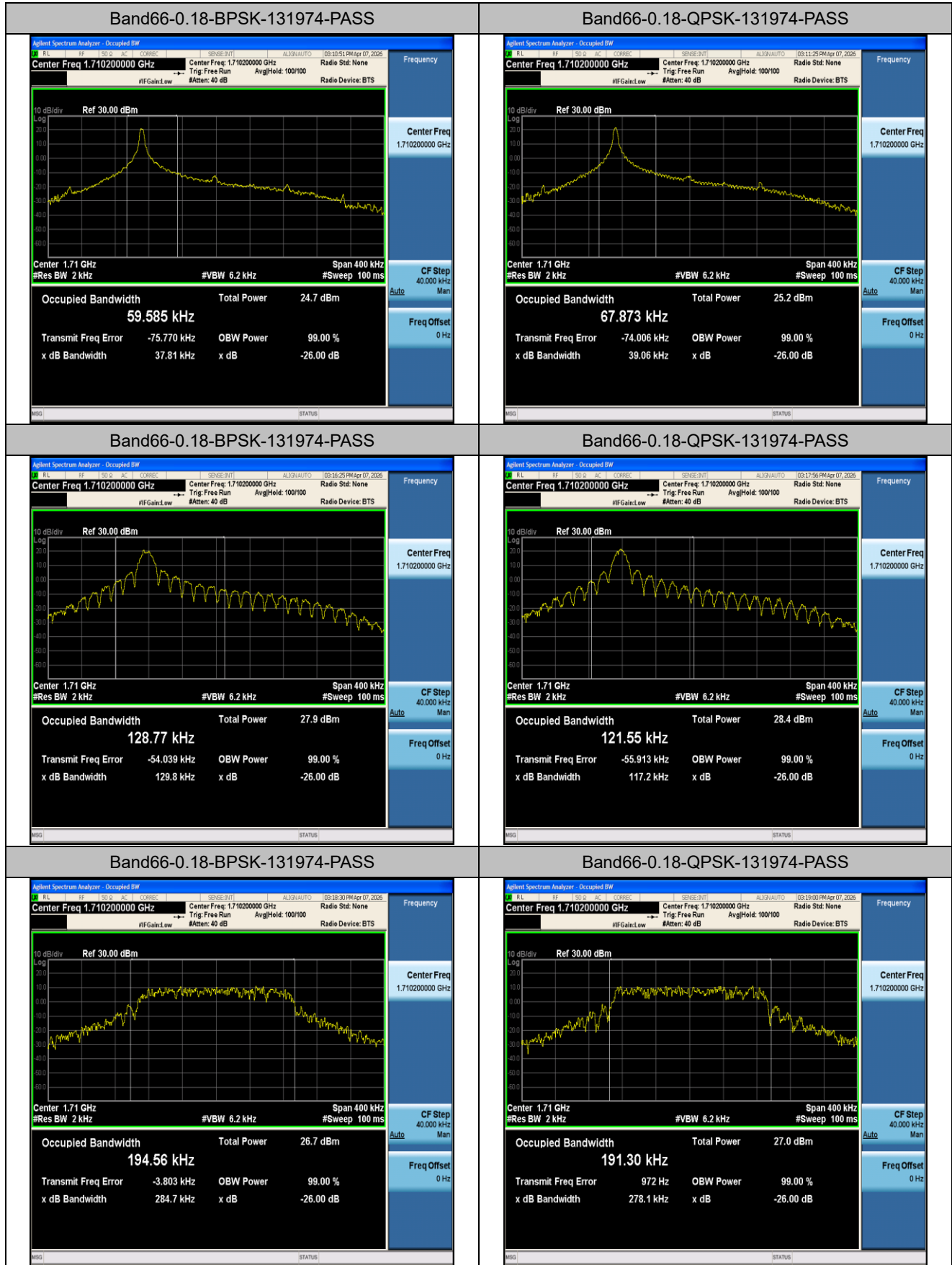


Emission Bandwidth for NB

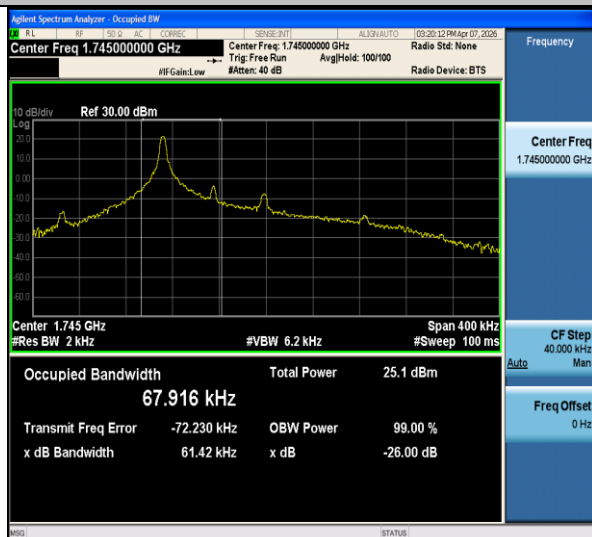
Test Result

Band	OpMode	SCS	BW	Modulation	Channel	Tones	OBW(MHz)	EBW(MHz)	Verdict
Band66	Stand-Alone	3.75kHz	0.18	BPSK	131974	1@0	0.05959	0.0378	PASS
Band66	Stand-Alone	3.75kHz	0.18	QPSK	131974	1@0	0.06787	0.0391	PASS
Band66	Stand-Alone	15kHz	0.18	BPSK	131974	1@0	0.12877	0.1298	PASS
Band66	Stand-Alone	15kHz	0.18	QPSK	131974	1@0	0.12155	0.1172	PASS
Band66	Stand-Alone	15kHz	0.18	BPSK	131974	12@0	0.19456	0.2847	PASS
Band66	Stand-Alone	15kHz	0.18	QPSK	131974	12@0	0.19130	0.2781	PASS
Band66	Stand-Alone	3.75kHz	0.18	BPSK	132322	1@0	0.06792	0.0614	PASS
Band66	Stand-Alone	3.75kHz	0.18	QPSK	132322	1@0	0.07592	0.0618	PASS
Band66	Stand-Alone	15kHz	0.18	BPSK	132322	1@0	0.12603	0.1127	PASS
Band66	Stand-Alone	15kHz	0.18	QPSK	132322	1@0	0.12695	0.1158	PASS
Band66	Stand-Alone	15kHz	0.18	BPSK	132322	12@0	0.18781	0.2634	PASS
Band66	Stand-Alone	15kHz	0.18	QPSK	132322	12@0	0.18804	0.2870	PASS
Band66	Stand-Alone	3.75kHz	0.18	BPSK	132670	1@0	0.07064	0.0608	PASS
Band66	Stand-Alone	3.75kHz	0.18	QPSK	132670	1@0	0.07825	0.0632	PASS
Band66	Stand-Alone	15kHz	0.18	BPSK	132670	1@0	0.12663	0.1197	PASS
Band66	Stand-Alone	15kHz	0.18	QPSK	132670	1@0	0.12939	0.1311	PASS
Band66	Stand-Alone	15kHz	0.18	BPSK	132670	12@0	0.18606	0.2901	PASS
Band66	Stand-Alone	15kHz	0.18	QPSK	132670	12@0	0.19289	0.2771	PASS

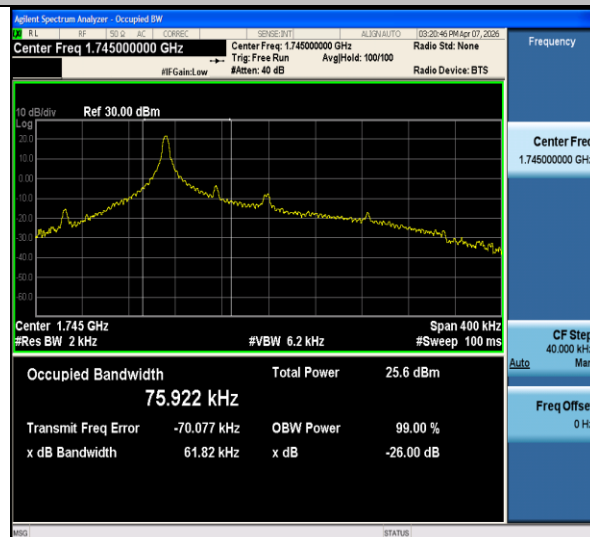
Test Graphs



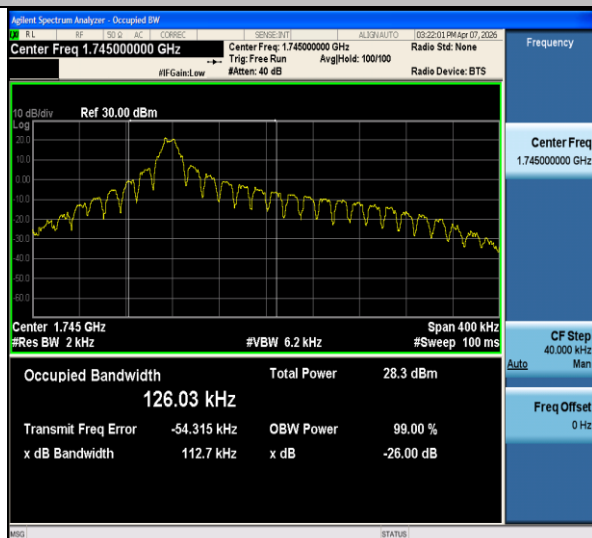
Band66-0.18-BPSK-132322-PASS



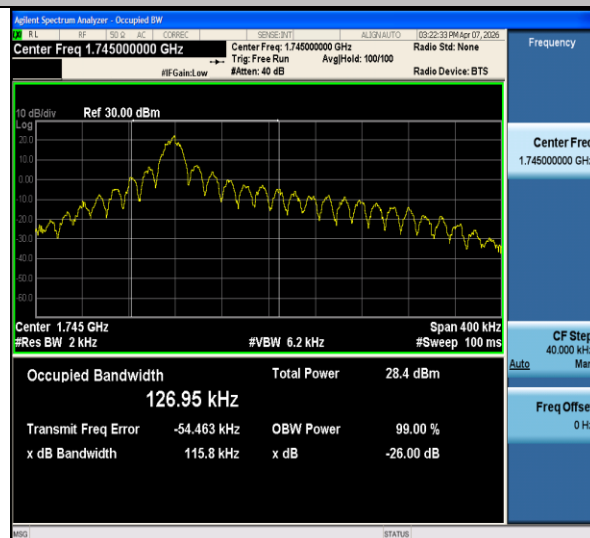
Band66-0.18-QPSK-132322-PASS



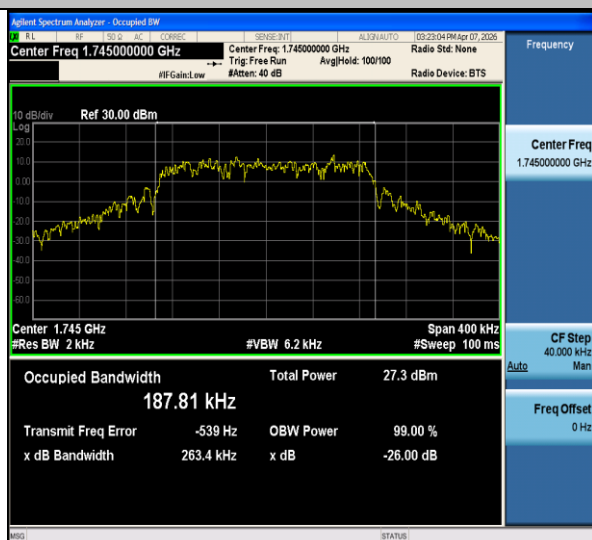
Band66-0.18-BPSK-132322-PASS



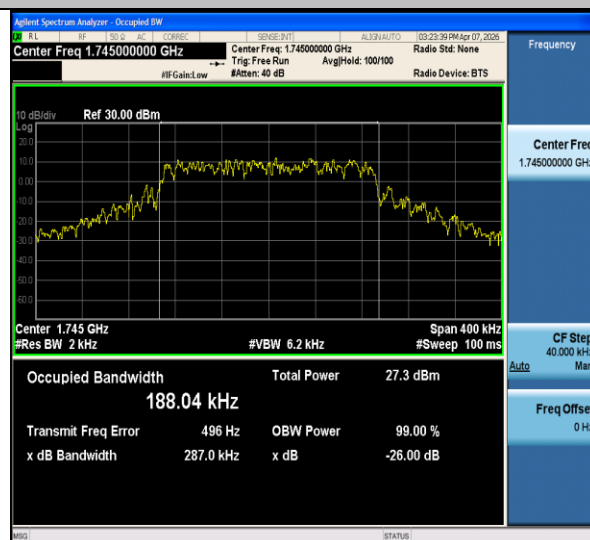
Band66-0.18-QPSK-132322-PASS

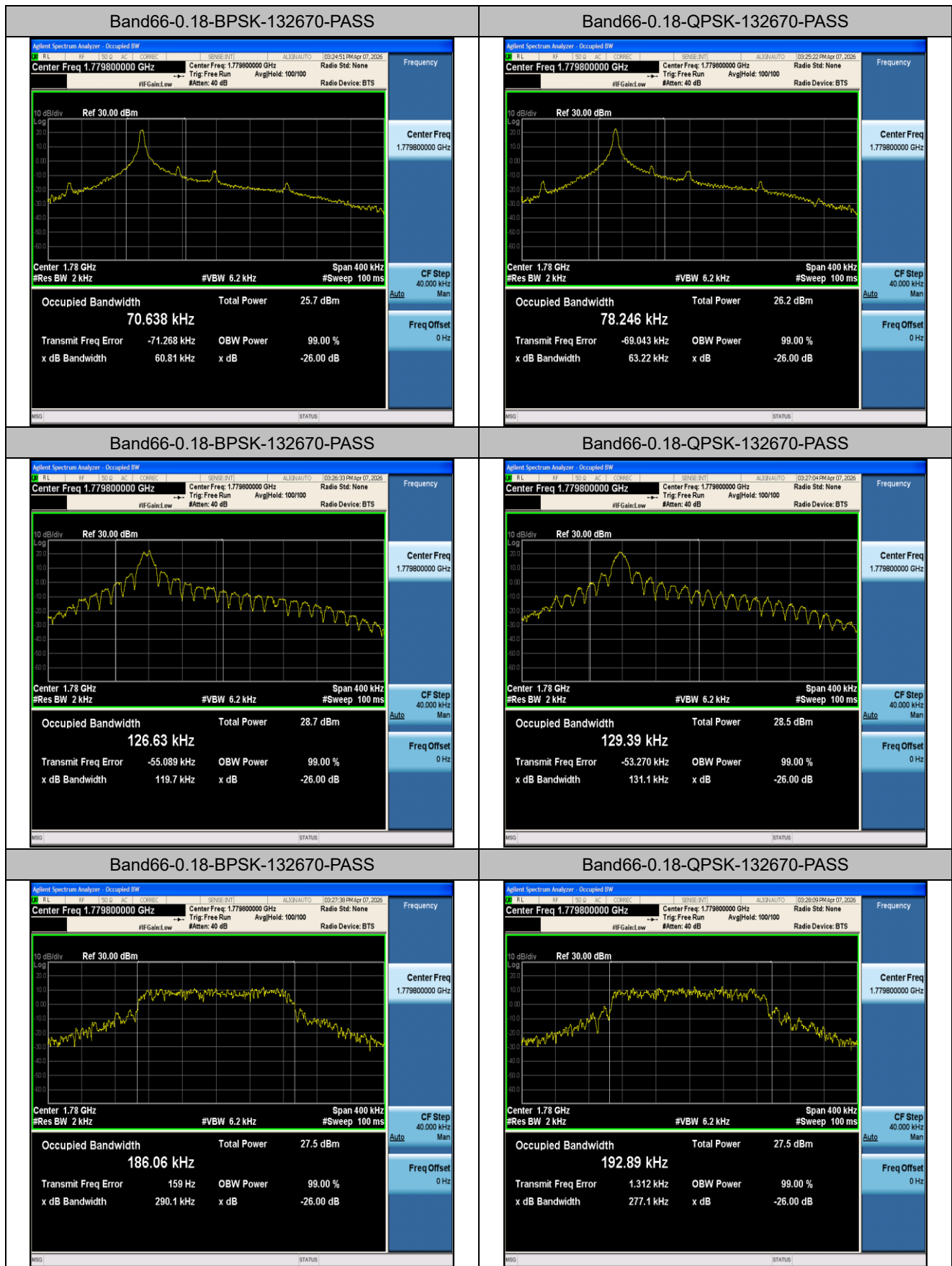


Band66-0.18-BPSK-132322-PASS



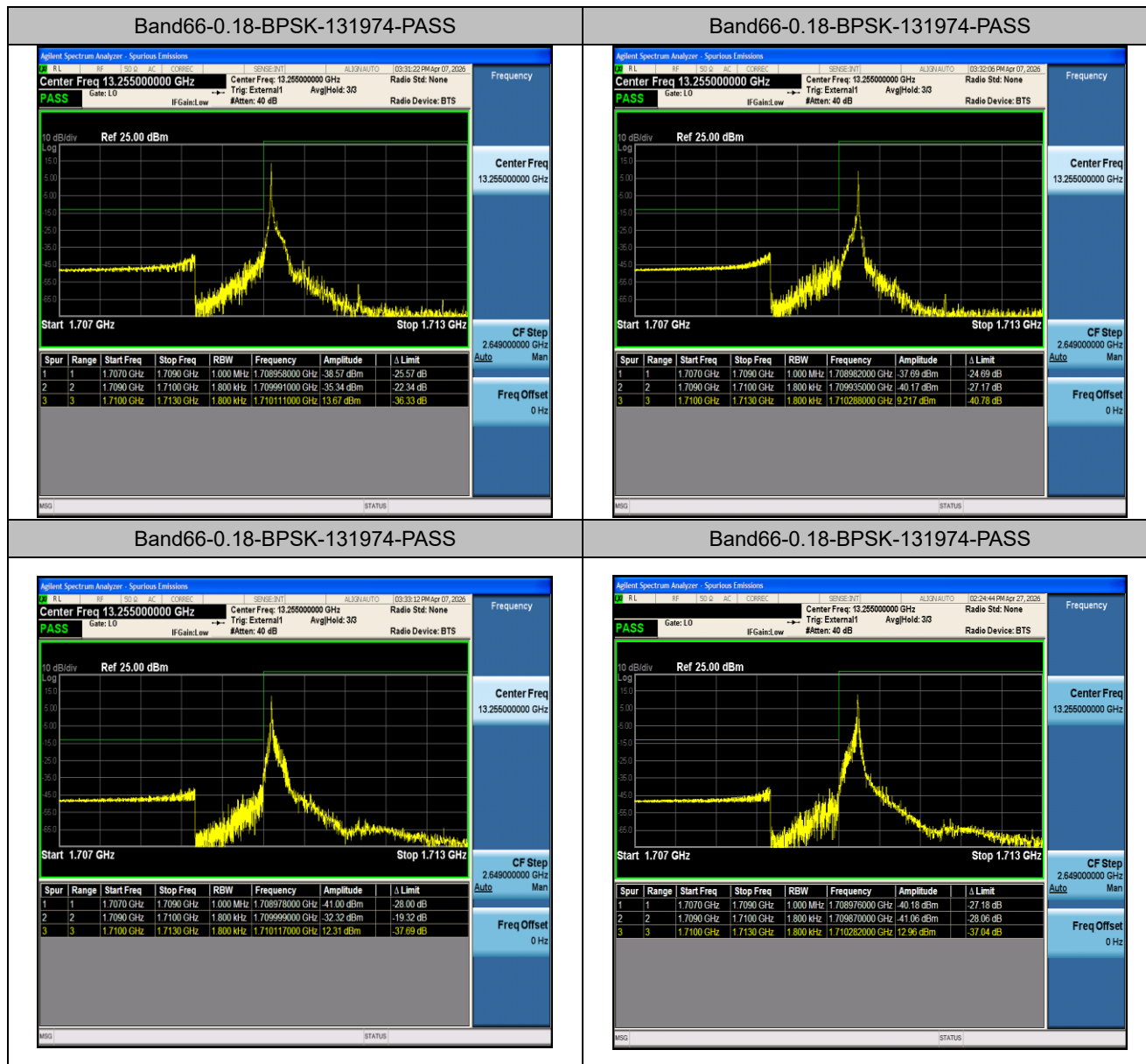
Band66-0.18-QPSK-132322-PASS



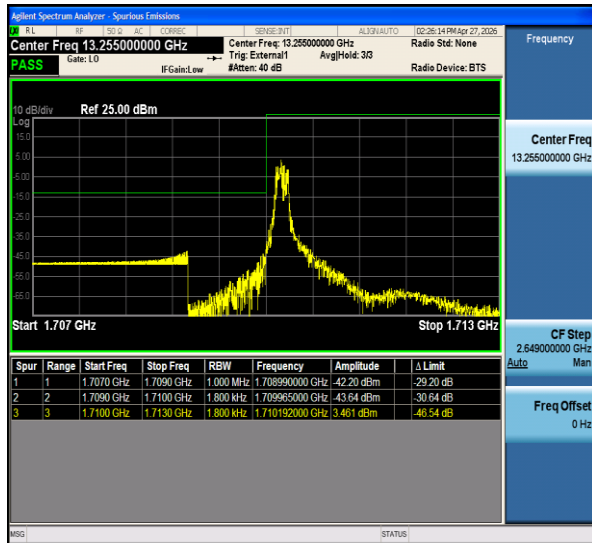


Band Edge for NB

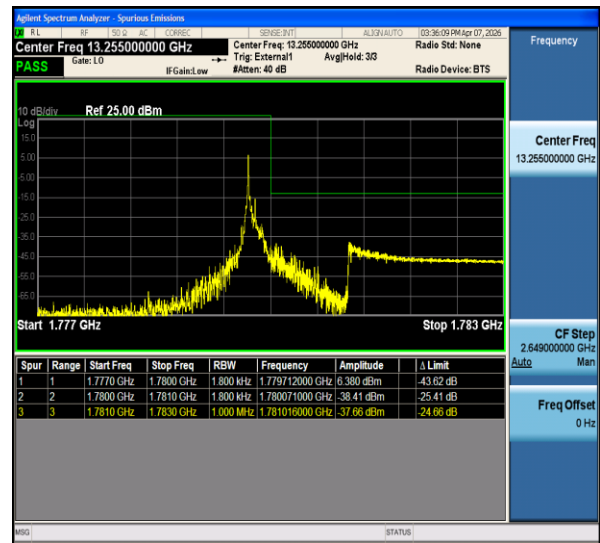
Test Graphs



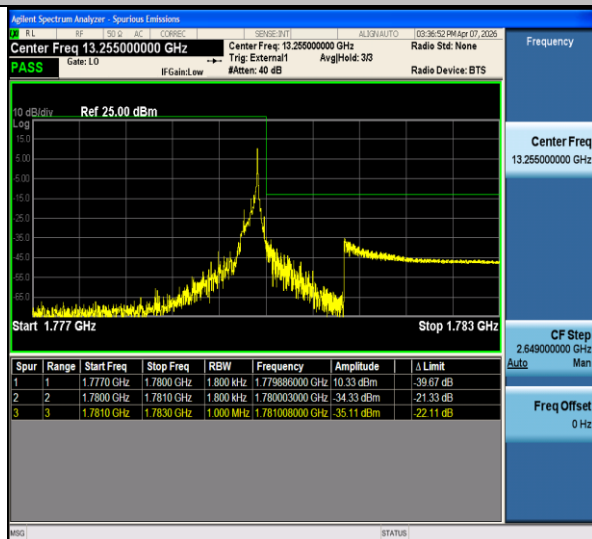
Band66-0.18-BPSK-131974-PASS



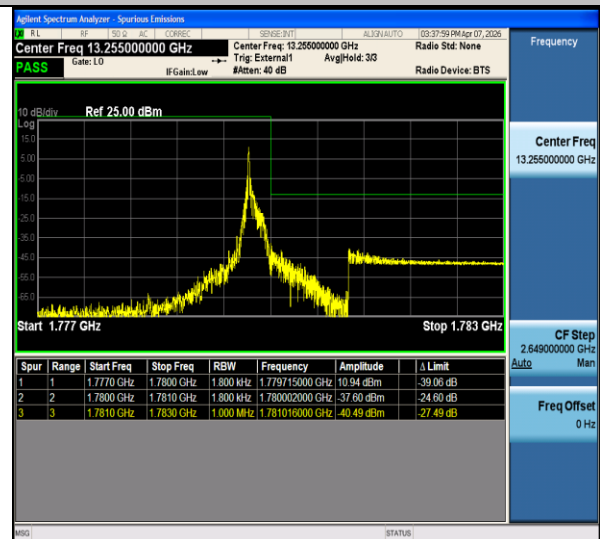
Band66-0.18-BPSK-132670-PASS



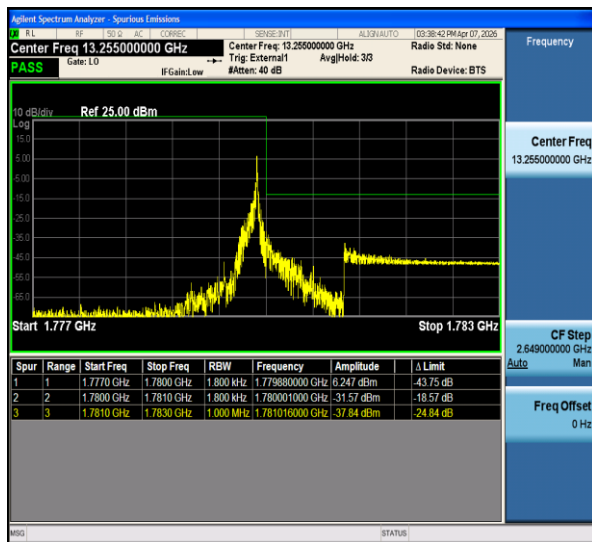
Band66-0.18-BPSK-132670-PASS



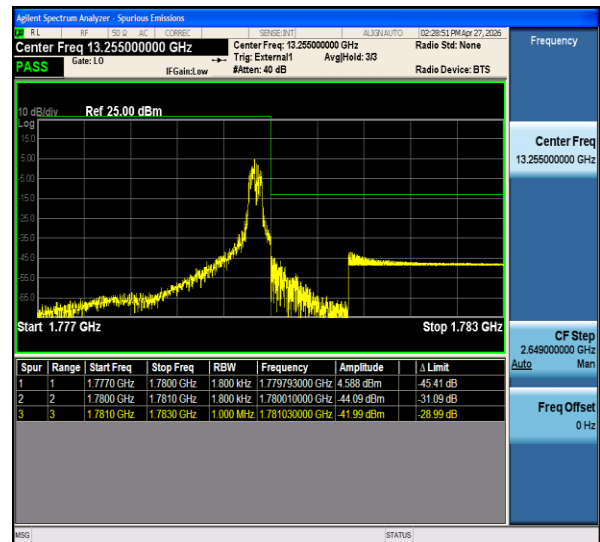
Band66-0.18-BPSK-132670-PASS



Band66-0.18-BPSK-132670-PASS

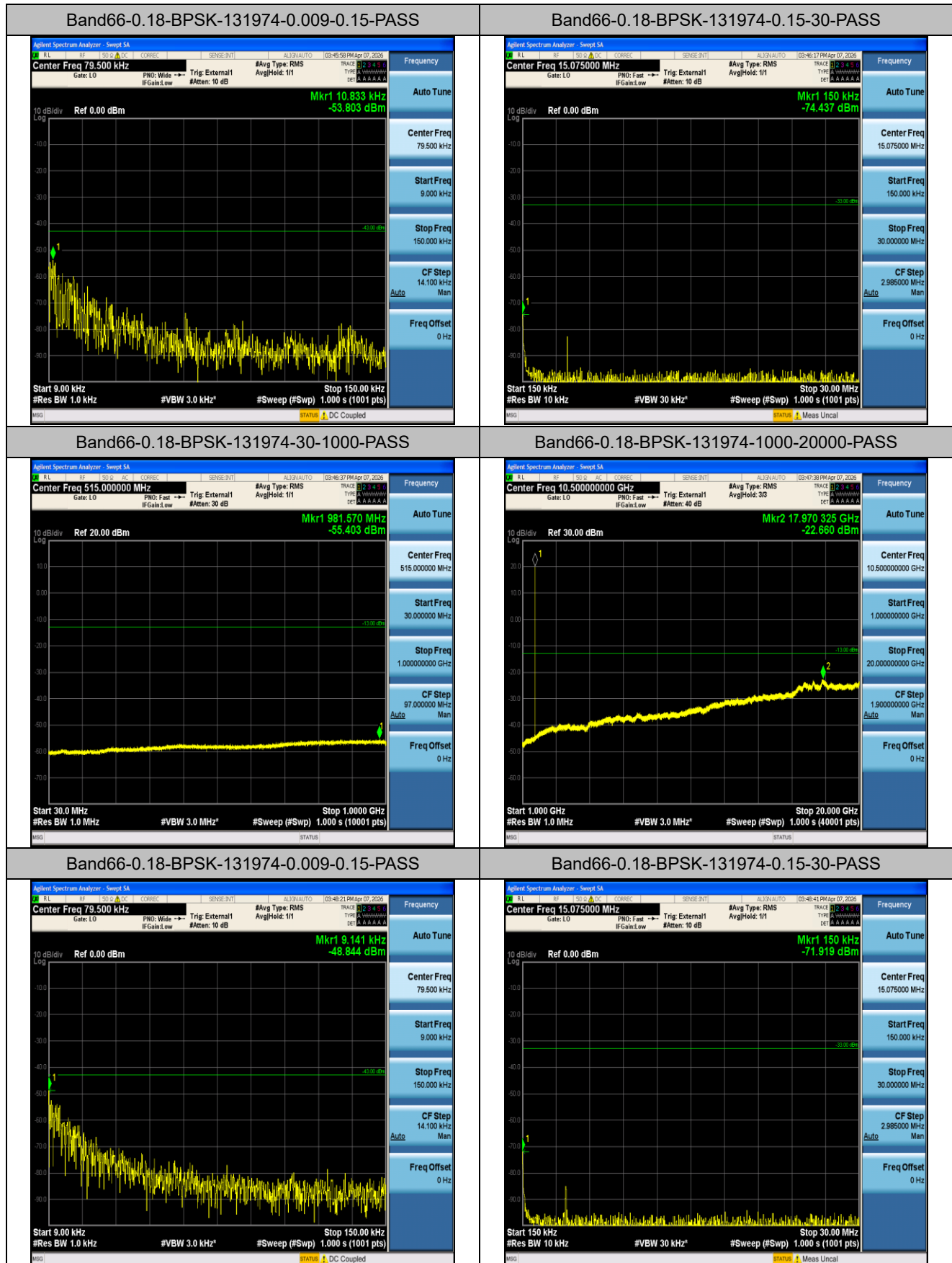


Band66-0.18-BPSK-132670-PASS

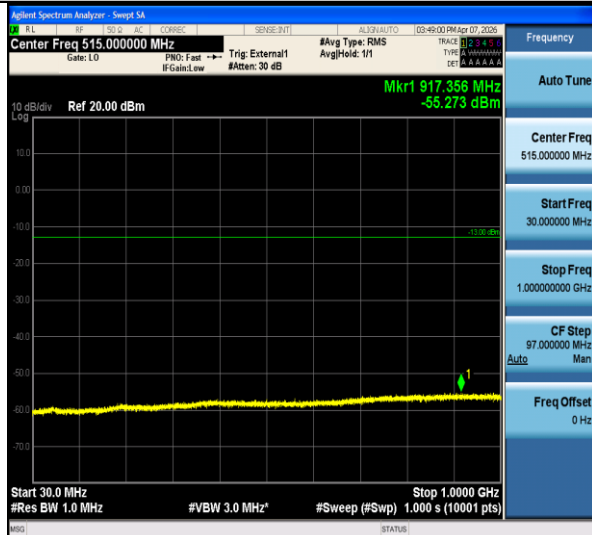


Conducted Spurious Emission for NB

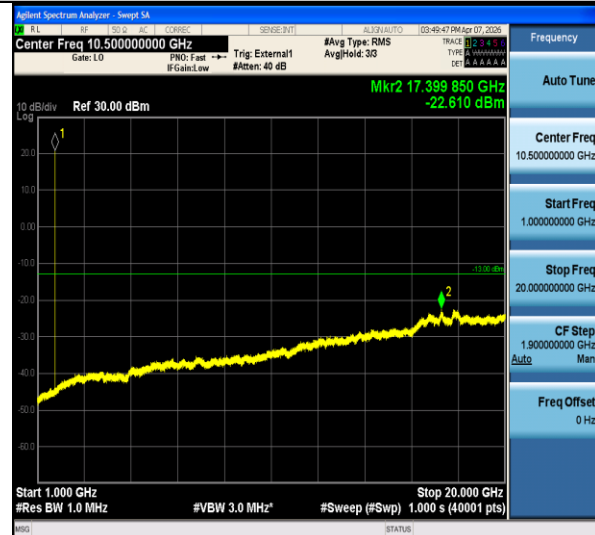
Test Graphs



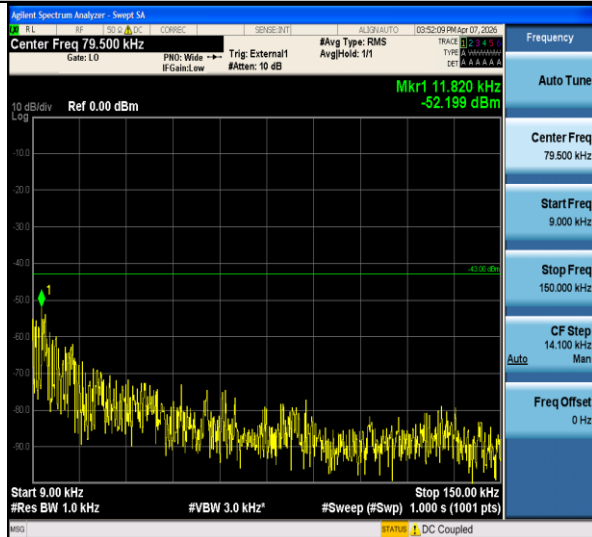
Band66-0.18-BPSK-131974-30-1000-PASS



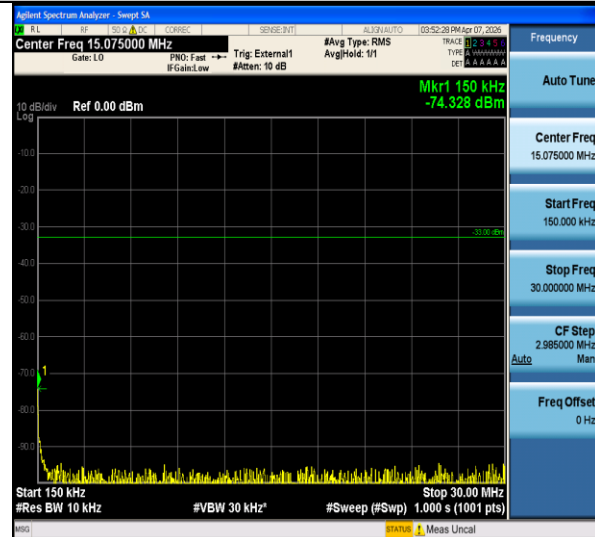
Band66-0.18-BPSK-131974-1000-20000-PASS



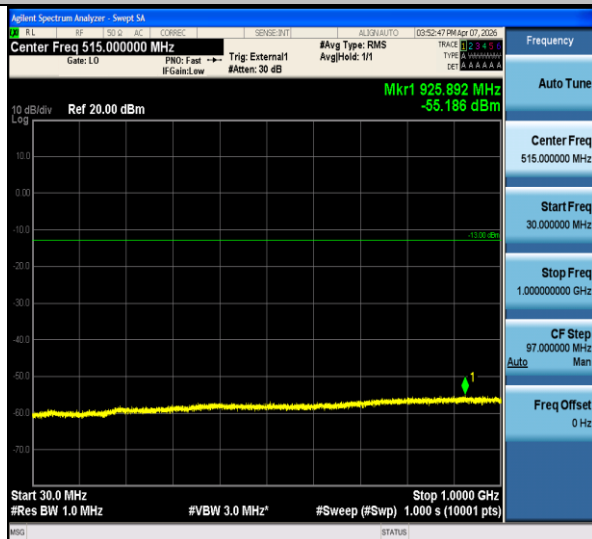
Band66-0.18-BPSK-132322-0.009-0.15-PASS



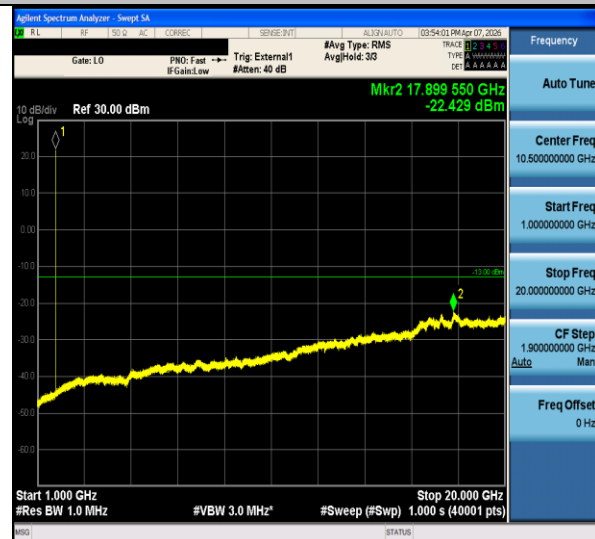
Band66-0.18-BPSK-132322-0.15-30-PASS

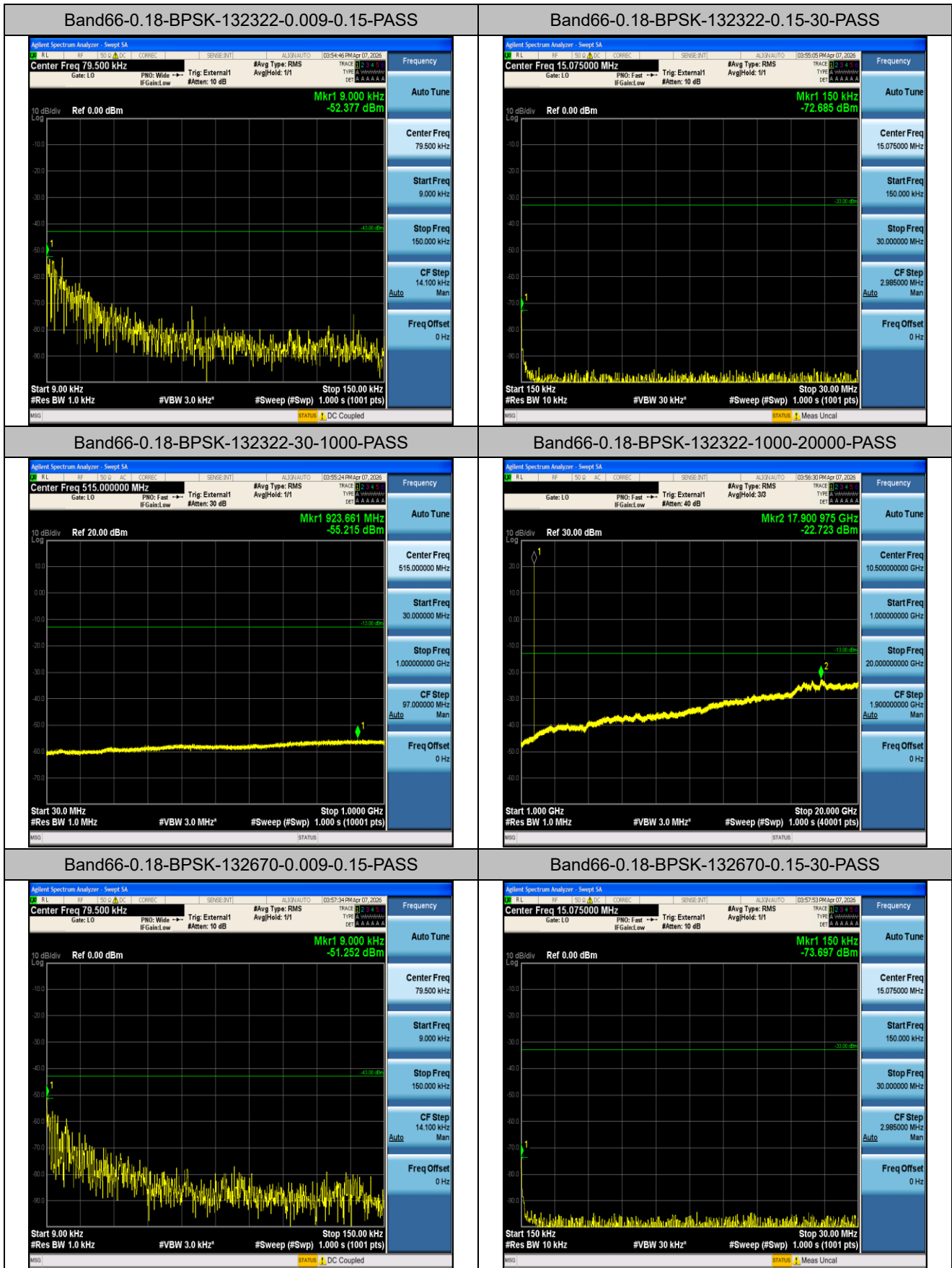


Band66-0.18-BPSK-132322-30-1000-PASS

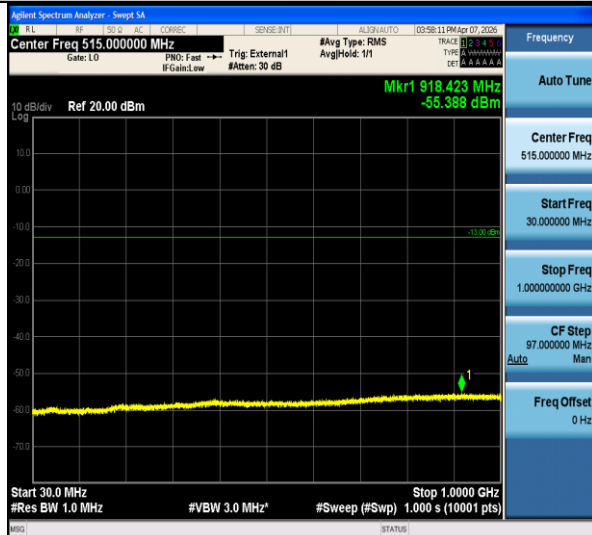


Band66-0.18-BPSK-132322-1000-20000-PASS

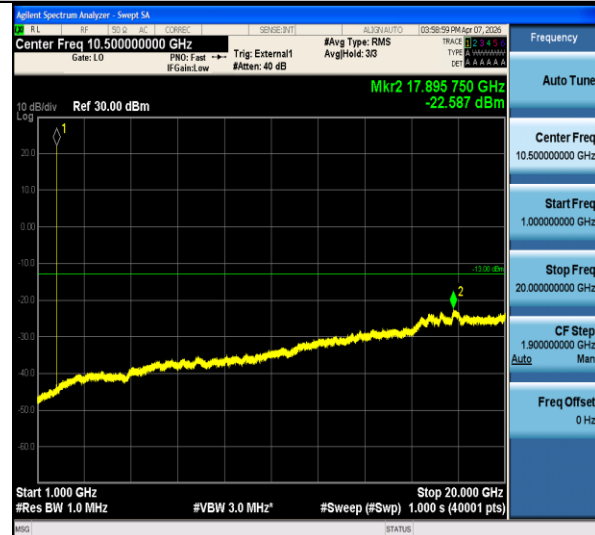




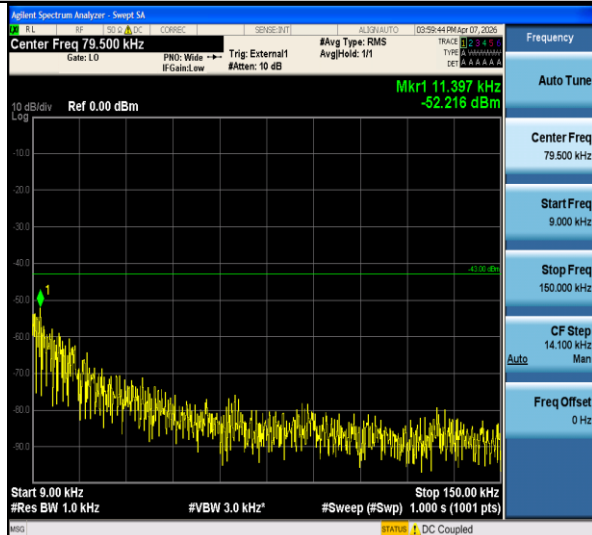
Band66-0.18-BPSK-132670-30-1000-PASS



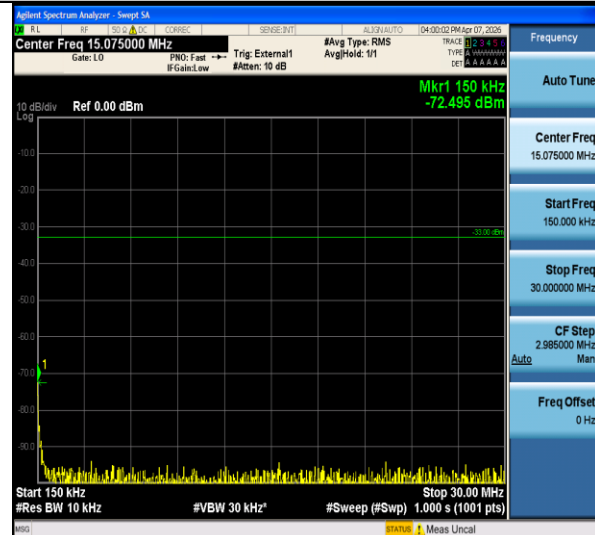
Band66-0.18-BPSK-132670-1000-20000-PASS



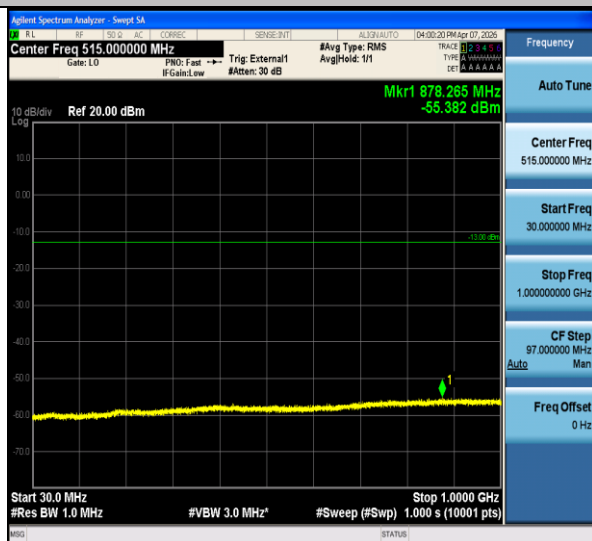
Band66-0.18-BPSK-132670-0.009-0.15-PASS



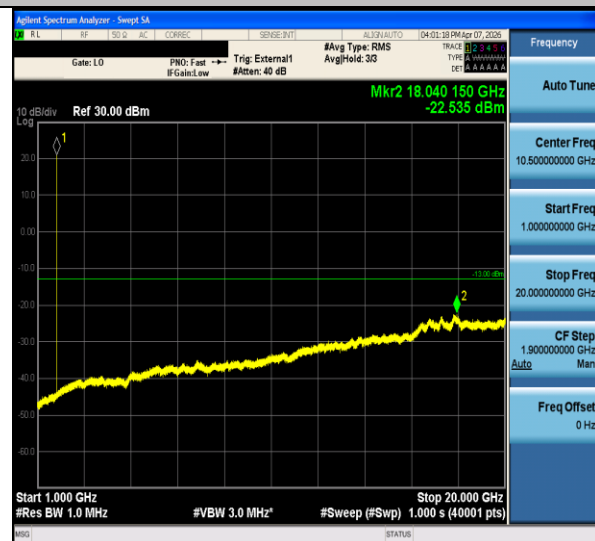
Band66-0.18-BPSK-132670-0.15-30-PASS



Band66-0.18-BPSK-132670-30-1000-PASS



Band66-0.18-BPSK-132670-1000-20000-PASS



Frequency Stability for NB

Test Result

Voltage											
Band	OpMode	SCS	Bandwidth	Modulation	Channel	Tones	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band66	Stand-Alone	15kHz	0.18	BPSK	132322	12@0	VN	NT	13.00	0.007450	PASS
Band66	Stand-Alone	15kHz	0.18	BPSK	132322	12@0	VL	NT	12.90	0.007393	PASS
Band66	Stand-Alone	15kHz	0.18	BPSK	132322	12@0	VH	NT	14.90	0.008539	PASS

Temperature											
Band	OpMode	SCS	Bandwidth	Modulation	Channel	Tones	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band66	Stand-Alone	15kHz	0.18	BPSK	132322	12@0	NV	-30	14.70	0.008424	PASS
Band66	Stand-Alone	15kHz	0.18	BPSK	132322	12@0	NV	-20	16.80	0.009628	PASS
Band66	Stand-Alone	15kHz	0.18	BPSK	132322	12@0	NV	-10	15.00	0.008596	PASS
Band66	Stand-Alone	15kHz	0.18	BPSK	132322	12@0	NV	0	14.00	0.008023	PASS
Band66	Stand-Alone	15kHz	0.18	BPSK	132322	12@0	NV	10	15.40	0.008825	PASS
Band66	Stand-Alone	15kHz	0.18	BPSK	132322	12@0	NV	20	15.70	0.008997	PASS
Band66	Stand-Alone	15kHz	0.18	BPSK	132322	12@0	NV	30	16.60	0.009513	PASS
Band66	Stand-Alone	15kHz	0.18	BPSK	132322	12@0	NV	40	15.20	0.008711	PASS
Band66	Stand-Alone	15kHz	0.18	BPSK	132322	12@0	NV	50	13.70	0.007851	PASS

~The End~