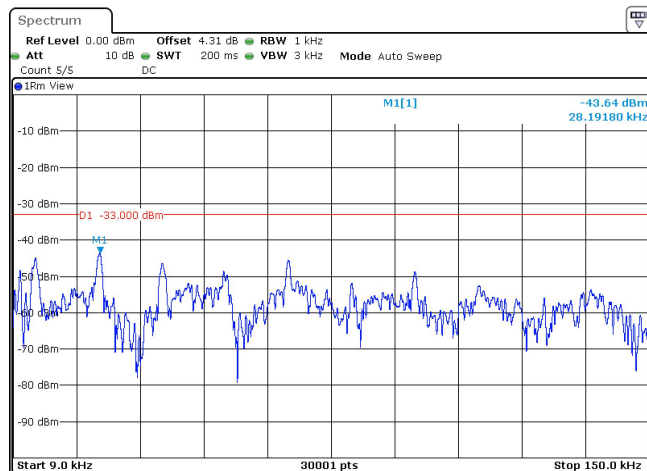
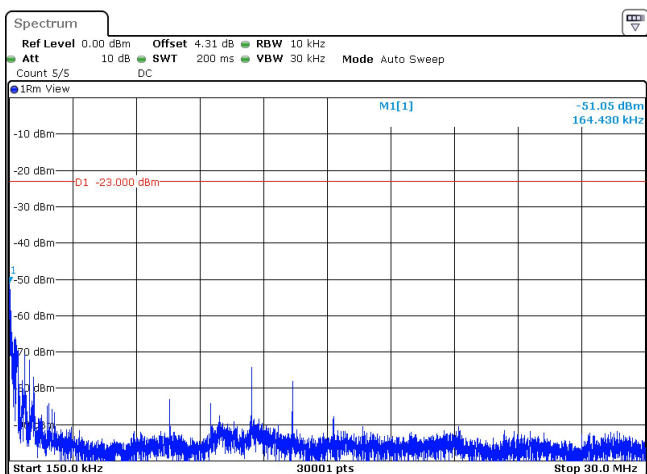
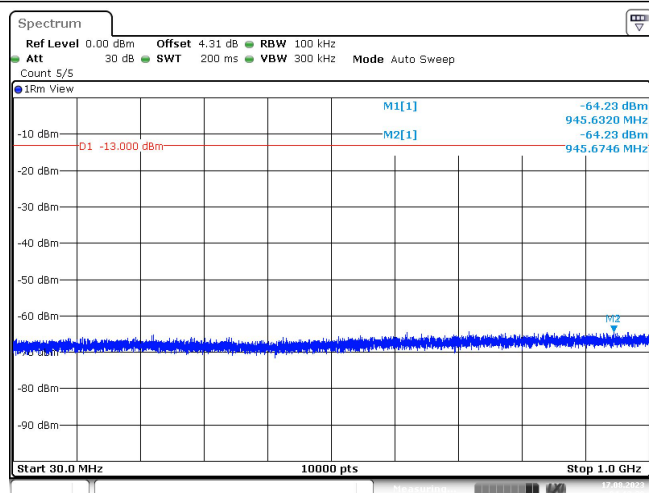




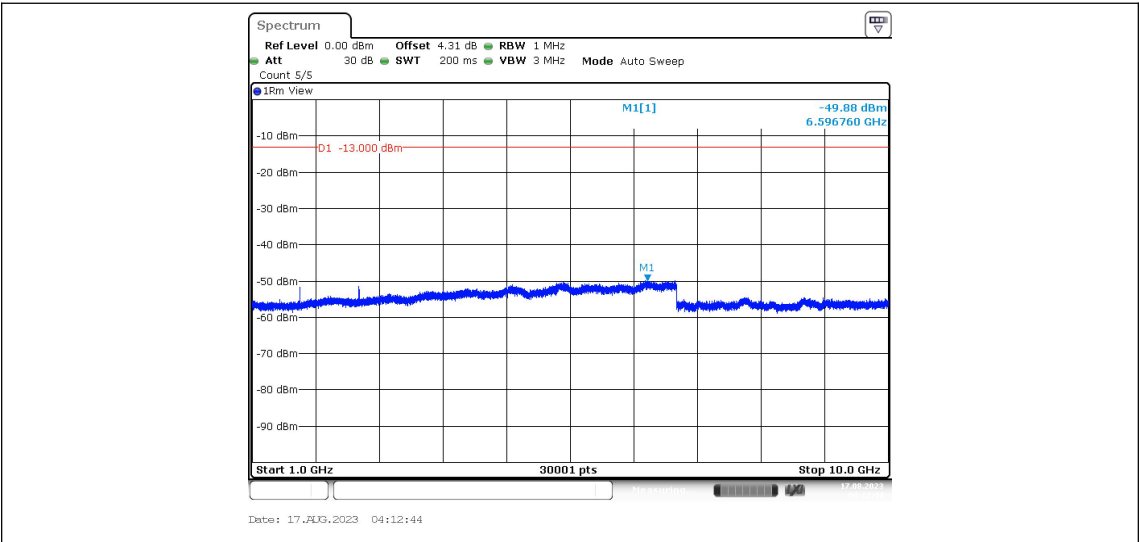
Band5-Stand-Alone-NaN-BPSK-20525-1@0-15kHz-0.009-0.15--43.64--33-PASS



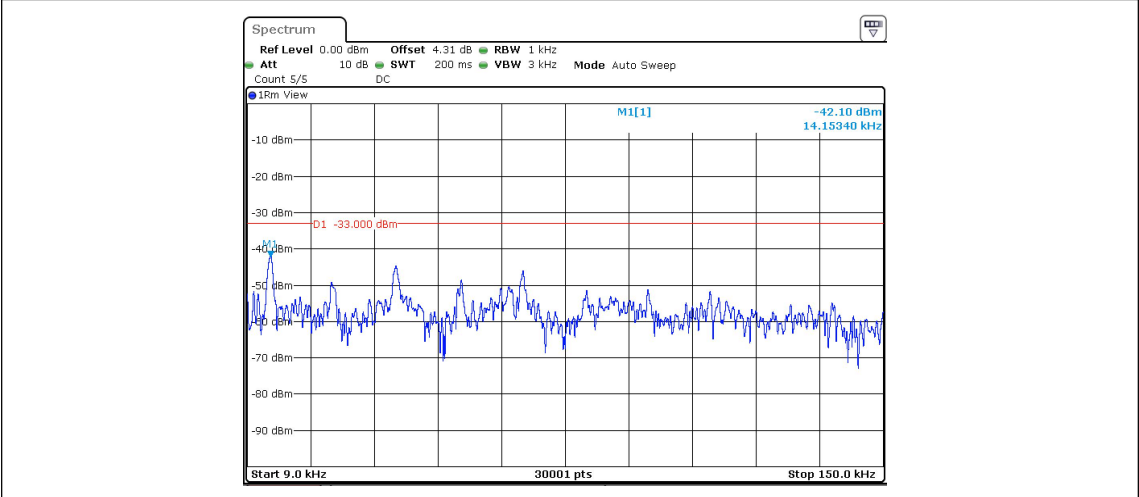
Band5-Stand-Alone-NaN-BPSK-20525-1@0-15kHz-0.15-30--51.05--23-PASS



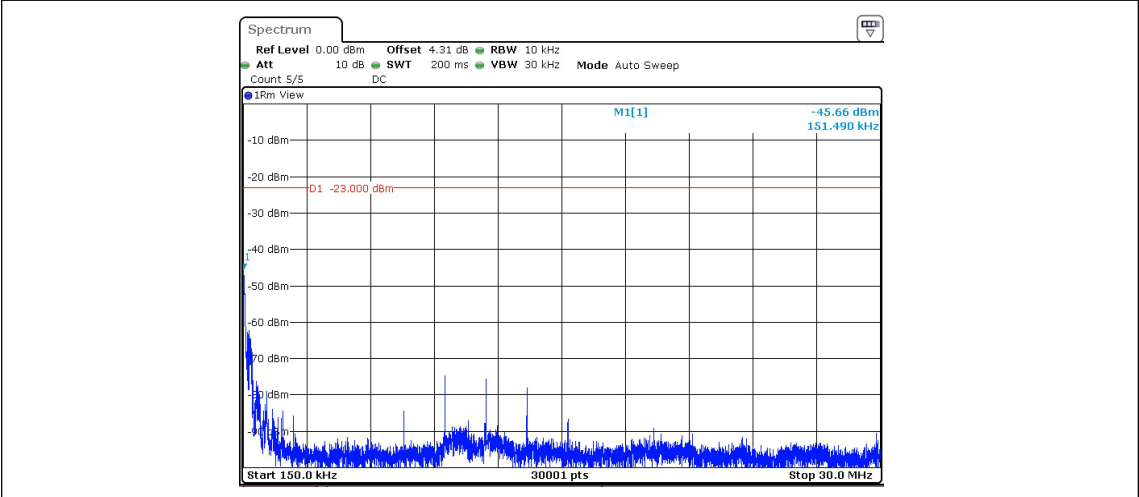
Band5-Stand-Alone-NaN-BPSK-20525-1@0-15kHz-30-1000--64.23--13-PASS



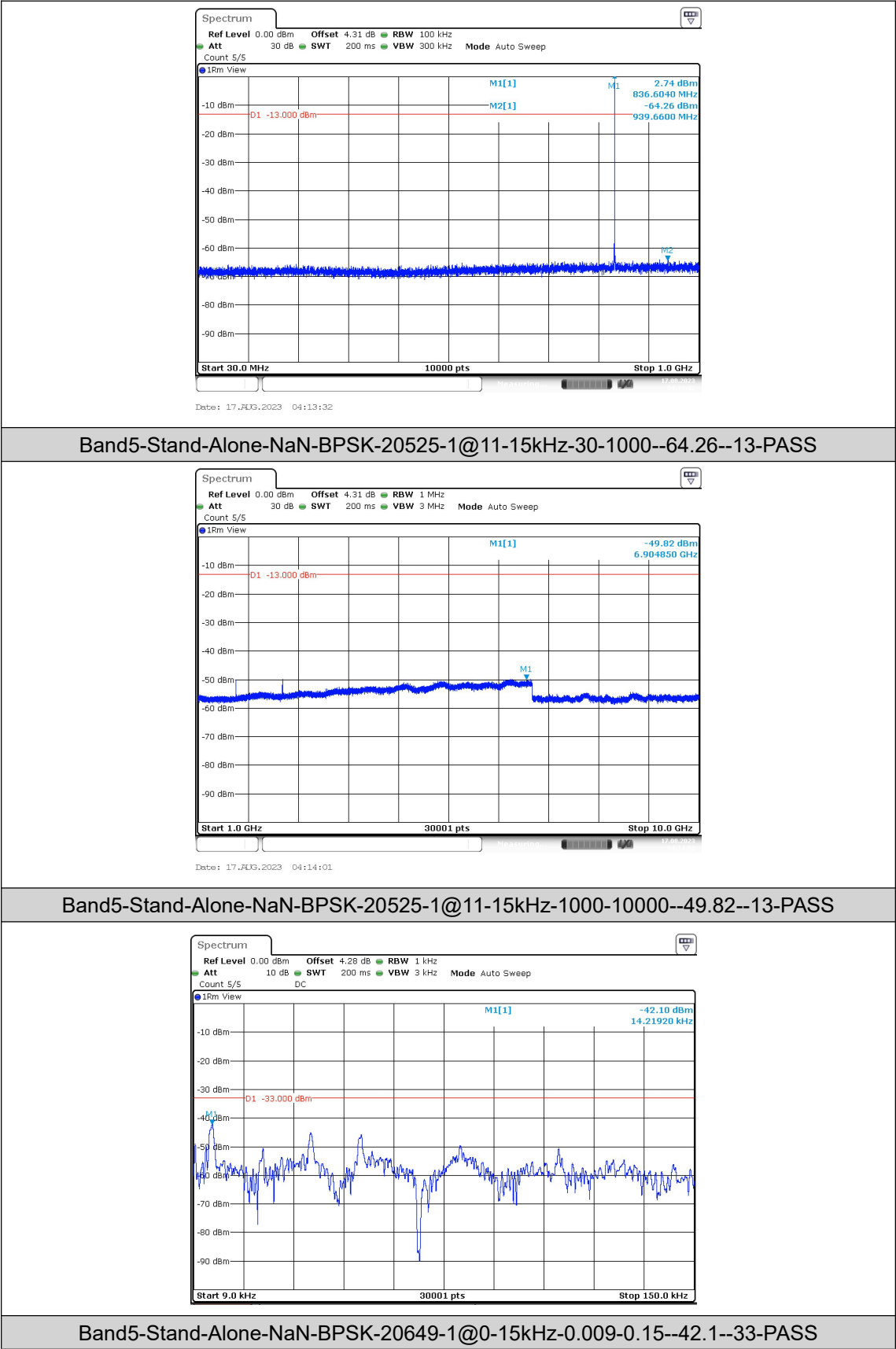
Band5-Stand-Alone-NaN-BPSK-20525-1@0-15kHz-1000-10000--49.88--13-PASS

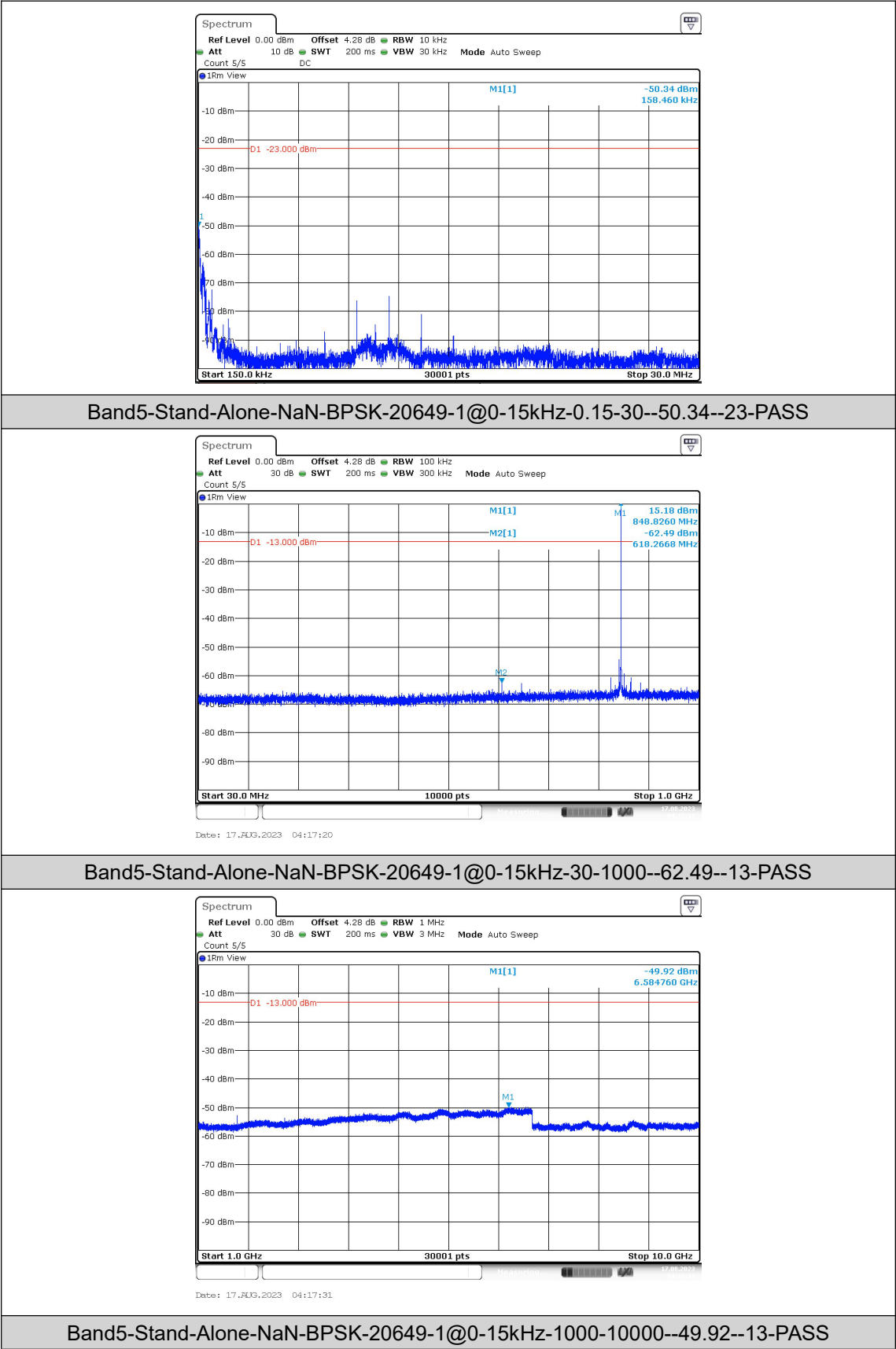


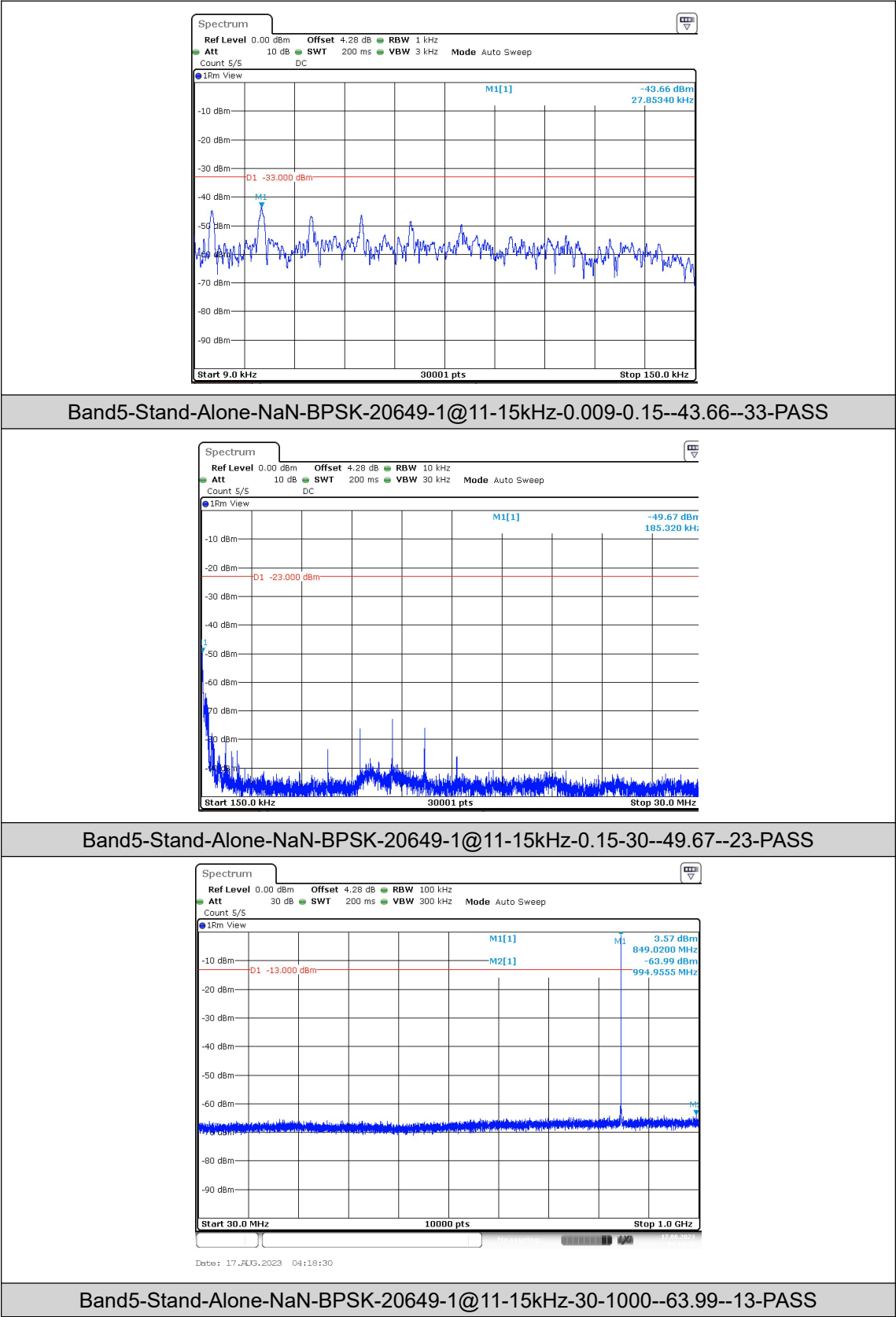
Band5-Stand-Alone-NaN-BPSK-20525-1@11-15kHz-0.009-0.15--42.1--33-PASS

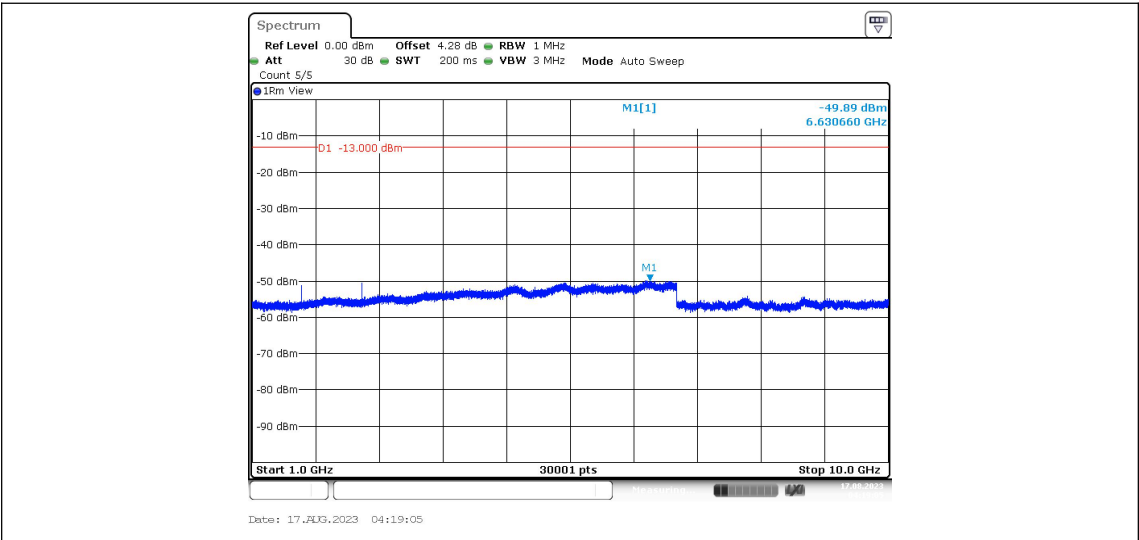


Band5-Stand-Alone-NaN-BPSK-20525-1@11-15kHz-0.15-30--45.66--23-PASS

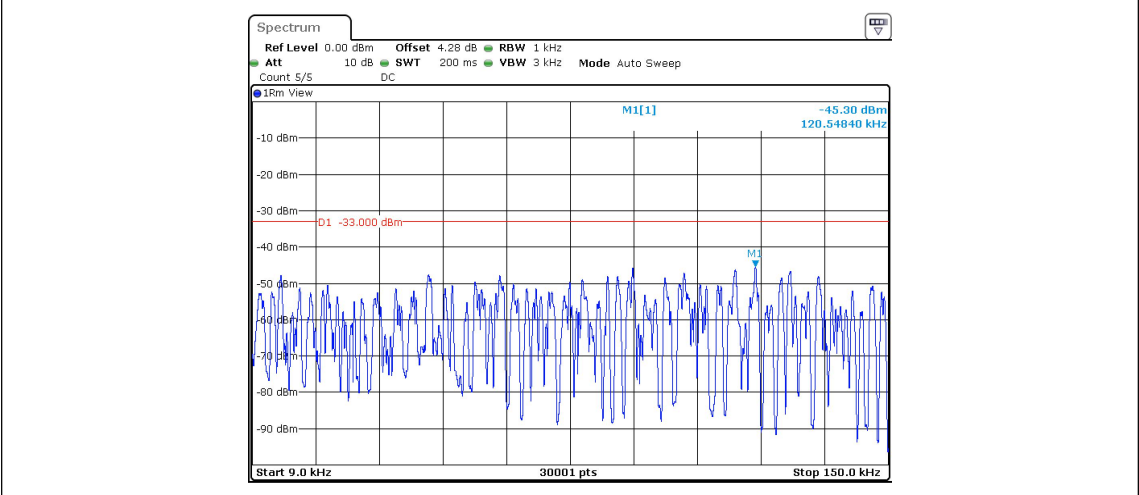




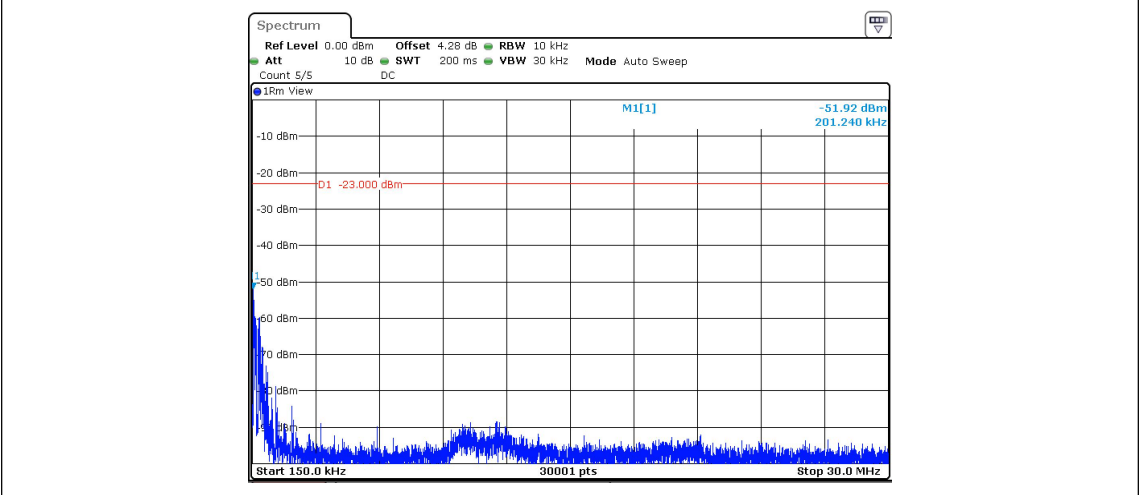




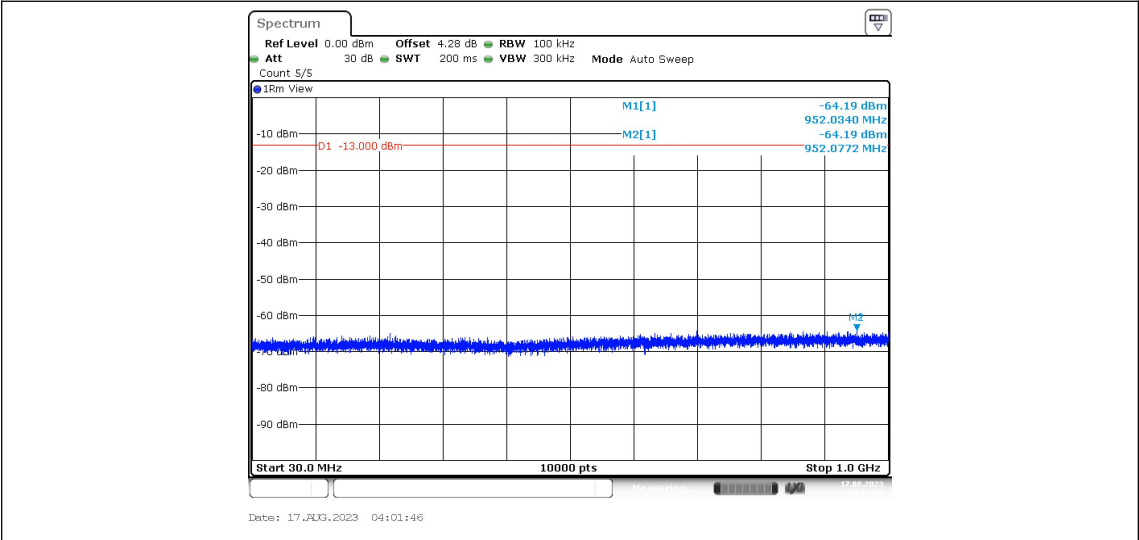
Band5-Stand-Alone-NaN-BPSK-20649-1@11-15kHz-1000-10000--49.89--13-PASS



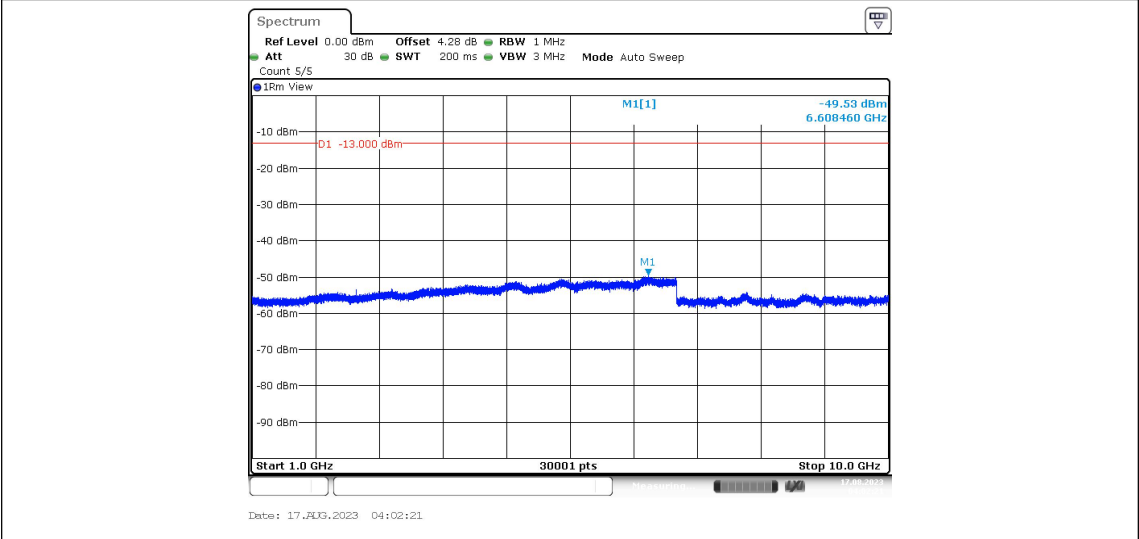
Band5-Stand-Alone-NaN-QPSK-20401-12@0-15kHz-0.009-0.15--45.3--33-PASS



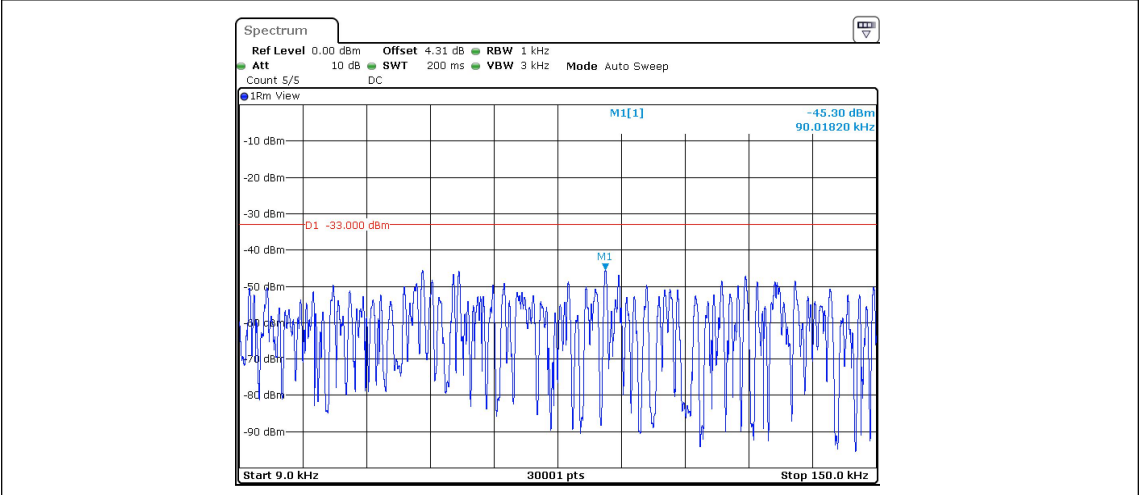
Band5-Stand-Alone-NaN-QPSK-20401-12@0-15kHz-0.15-30--51.92--23-PASS



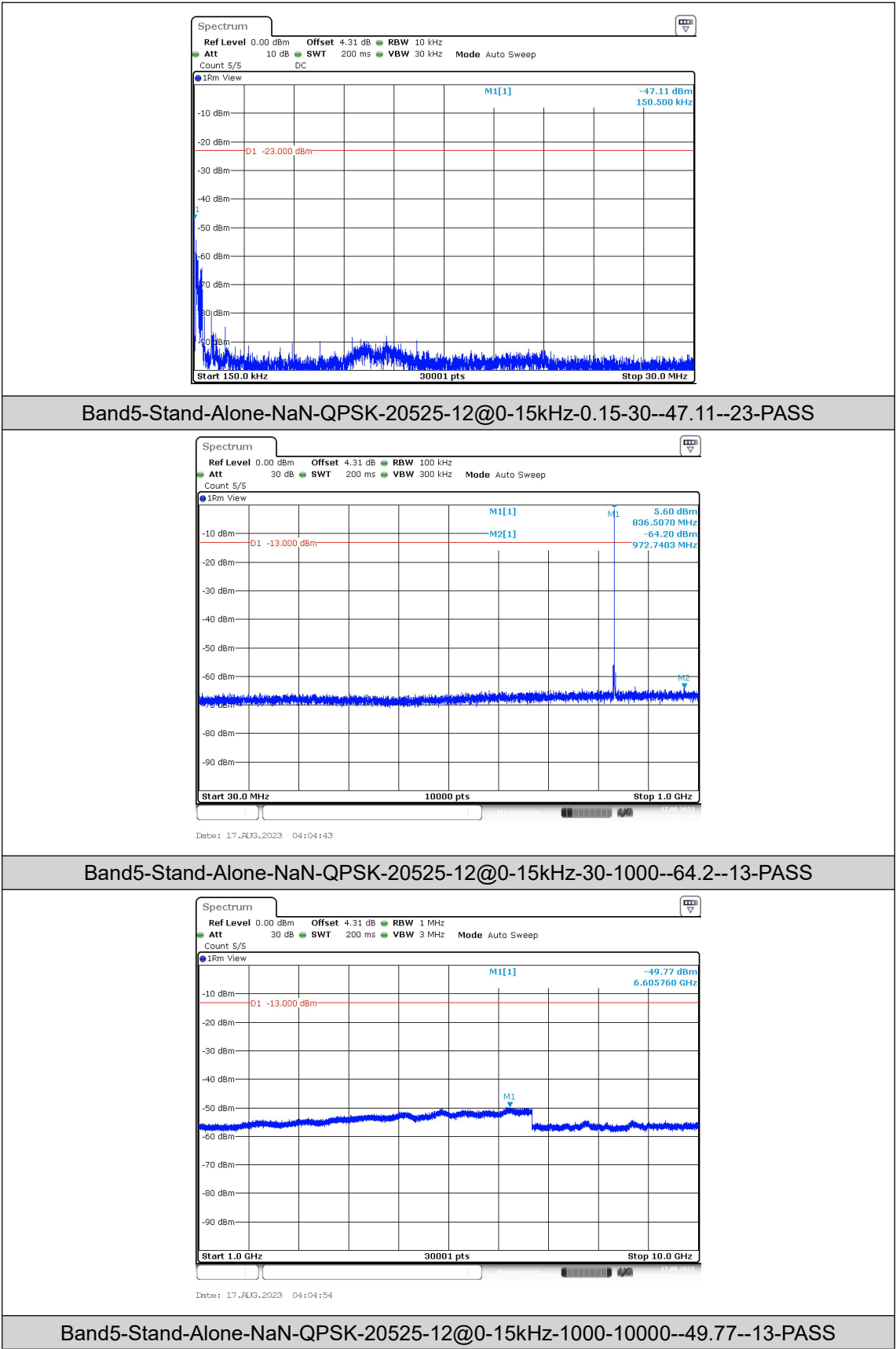
Band5-Stand-Alone-NaN-QPSK-20401-12@0-15kHz-30-1000--64.19--13-PASS

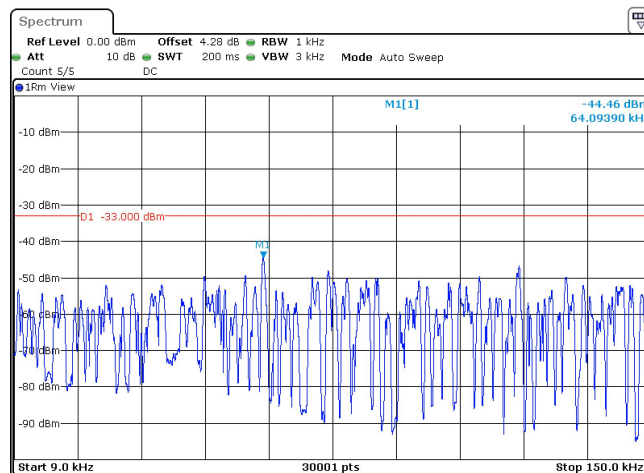


Band5-Stand-Alone-NaN-QPSK-20401-12@0-15kHz-1000-10000--49.53--13-PASS

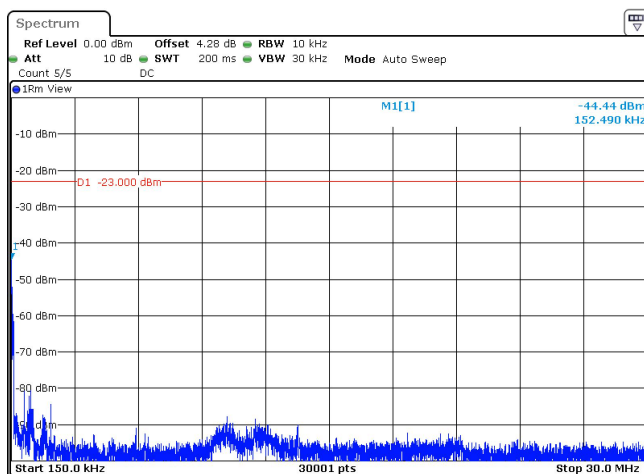


Band5-Stand-Alone-NaN-QPSK-20525-12@0-15kHz-0.009-0.15--45.3--33-PASS

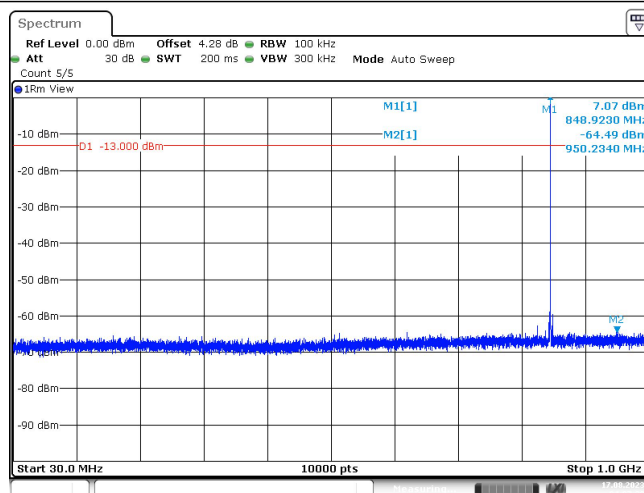




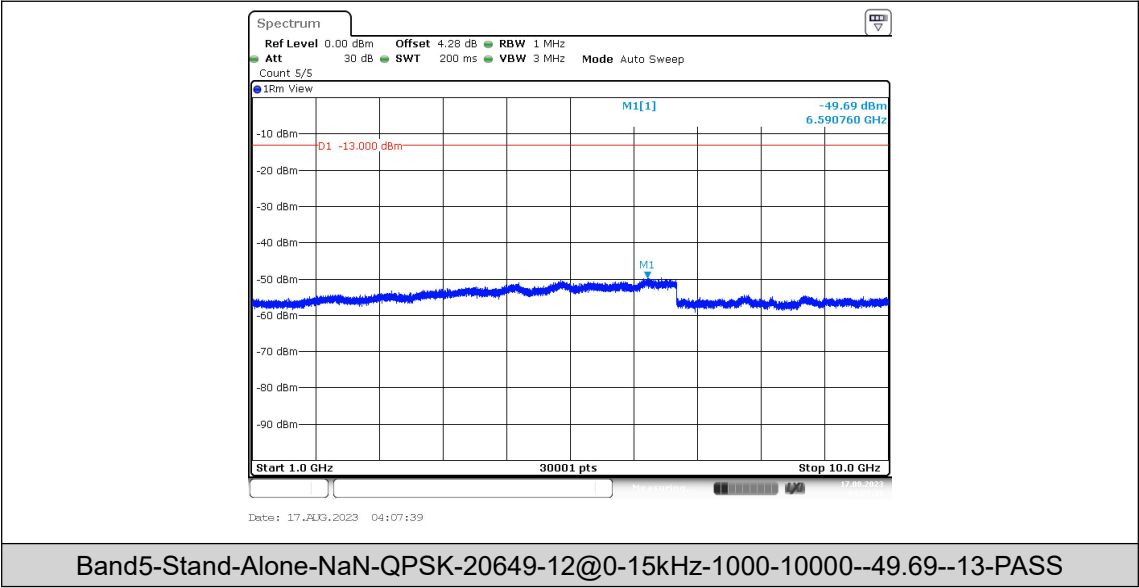
Band5-Stand-Alone-NaN-QPSK-20649-12@0-15kHz-0.009-0.15--44.46--33-PASS



Band5-Stand-Alone-NaN-QPSK-20649-12@0-15kHz-0.15-30--44.44--23-PASS



Band5-Stand-Alone-NaN-QPSK-20649-12@0-15kHz-30-1000--64.49--13-PASS



Appendix F: Frequency Stability for NB1

Test Result

Voltage												
Band	OpMode	SCS	Bandwidth	Modulation	Channel	Tones	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band5	Stand-Alone	3.75kHz	NaN	QPSK	20525	1@0	VH	NT	-14.46	-0.017286	±2.5	PASS
Band5	Stand-Alone	3.75kHz	NaN	QPSK	20525	1@0	VL	NT	-16.79	-0.020072	±2.5	PASS
Band5	Stand-Alone	3.75kHz	NaN	QPSK	20525	1@0	VN	NT	-14.56	-0.017406	±2.5	PASS
Band5	Stand-Alone	3.75kHz	NaN	QPSK	20525	1@47	VH	NT	-13.89	-0.016605	±2.5	PASS
Band5	Stand-Alone	3.75kHz	NaN	QPSK	20525	1@47	VL	NT	-16.57	-0.019809	±2.5	PASS
Band5	Stand-Alone	3.75kHz	NaN	QPSK	20525	1@47	VN	NT	-15.99	-0.019115	±2.5	PASS
Band5	Stand-Alone	15kHz	NaN	QPSK	20525	1@0	VH	NT	-13.28	-0.015876	±2.5	PASS
Band5	Stand-Alone	15kHz	NaN	QPSK	20525	1@0	VL	NT	-15.08	-0.018027	±2.5	PASS
Band5	Stand-Alone	15kHz	NaN	QPSK	20525	1@0	VN	NT	-14.92	-0.017836	±2.5	PASS
Band5	Stand-Alone	15kHz	NaN	QPSK	20525	1@11	VH	NT	-11.73	-0.014023	±2.5	PASS
Band5	Stand-Alone	15kHz	NaN	QPSK	20525	1@11	VL	NT	-15.59	-0.018637	±2.5	PASS
Band5	Stand-Alone	15kHz	NaN	QPSK	20525	1@11	VN	NT	-12.27	-0.014668	±2.5	PASS

Temperature												
Band	OpMode	Bandwidth	Modulation	Channel	Tones	SCS	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band5	Stand-Alone	3.75kHz	NaN	QPSK	20525	1@0	NV	50	-16.22	-0.019390	±2.5	PASS
Band5	Stand-Alone	3.75kHz	NaN	QPSK	20525	1@0	NV	-20	-16.72	-0.019988	±2.5	PASS
Band5	Stand-Alone	3.75kHz	NaN	QPSK	20525	1@0	NV	-10	-16.08	-0.019223	±2.5	PASS
Band5	Stand-Alone	3.75kHz	NaN	QPSK	20525	1@0	NV	0	-15.65	-0.018709	±2.5	PASS
Band5	Stand-Alone	3.75kHz	NaN	QPSK	20525	1@0	NV	10	-15.69	-0.018757	±2.5	PASS
Band5	Stand-Alone	3.75kHz	NaN	QPSK	20525	1@0	NV	20	-16.79	-0.020072	±2.5	PASS
Band5	Stand-Alone	3.75kHz	NaN	QPSK	20525	1@0	NV	30	-14.08	-0.016832	±2.5	PASS
Band5	Stand-Alone	3.75kHz	NaN	QPSK	20525	1@0	NV	40	-15.99	-0.019115	±2.5	PASS
Band5	Stand-Alone	3.75kHz	NaN	QPSK	20525	1@0	NV	-30	-15.69	-0.018757	±2.5	PASS
Band5	Stand-Alone	3.75kHz	NaN	QPSK	20525	1@47	NV	30	-14.19	-0.016964	±2.5	PASS
Band5	Stand-Alone	3.75kHz	NaN	QPSK	20525	1@47	NV	20	-17.14	-0.020490	±2.5	PASS
Band5	Stand-Alone	3.75kHz	NaN	QPSK	20525	1@47	NV	10	-15.79	-0.018876	±2.5	PASS
Band5	Stand-Alone	3.75kHz	NaN	QPSK	20525	1@47	NV	0	-13.53	-0.016175	±2.5	PASS
Band5	Stand-Alone	3.75kHz	NaN	QPSK	20525	1@47	NV	-10	-15.86	-0.018960	±2.5	PASS
Band5	Stand-Alone	3.75kHz	NaN	QPSK	20525	1@47	NV	40	-16.68	-0.019940	±2.5	PASS
Band5	Stand-Alone	3.75kHz	NaN	QPSK	20525	1@47	NV	-30	-17.01	-0.020335	±2.5	PASS

Band5	Stand-Alone	3.75kHz	NaN	QPSK	20525	1@47	NV	50	-14.88	-0.017788	±2.5	PASS
Band5	Stand-Alone	3.75kHz	NaN	QPSK	20525	1@47	NV	-20	-16.18	-0.019342	±2.5	PASS
Band5	Stand-Alone	15kHz	NaN	QPSK	20525	1@0	NV	50	-14.16	-0.016928	±2.5	PASS
Band5	Stand-Alone	15kHz	NaN	QPSK	20525	1@0	NV	-20	-14.28	-0.017071	±2.5	PASS
Band5	Stand-Alone	15kHz	NaN	QPSK	20525	1@0	NV	-10	-11.99	-0.014334	±2.5	PASS
Band5	Stand-Alone	15kHz	NaN	QPSK	20525	1@0	NV	0	-13.22	-0.015804	±2.5	PASS
Band5	Stand-Alone	15kHz	NaN	QPSK	20525	1@0	NV	10	-12.73	-0.015218	±2.5	PASS
Band5	Stand-Alone	15kHz	NaN	QPSK	20525	1@0	NV	20	-13.12	-0.015684	±2.5	PASS
Band5	Stand-Alone	15kHz	NaN	QPSK	20525	1@0	NV	30	-13.63	-0.016294	±2.5	PASS
Band5	Stand-Alone	15kHz	NaN	QPSK	20525	1@0	NV	40	-14.39	-0.017203	±2.5	PASS
Band5	Stand-Alone	15kHz	NaN	QPSK	20525	1@0	NV	-30	-13.29	-0.015888	±2.5	PASS
Band5	Stand-Alone	15kHz	NaN	QPSK	20525	1@11	NV	40	-13.03	-0.015577	±2.5	PASS
Band5	Stand-Alone	15kHz	NaN	QPSK	20525	1@11	NV	30	-11.33	-0.013545	±2.5	PASS
Band5	Stand-Alone	15kHz	NaN	QPSK	20525	1@11	NV	20	-13.82	-0.016521	±2.5	PASS
Band5	Stand-Alone	15kHz	NaN	QPSK	20525	1@11	NV	10	-11.77	-0.014071	±2.5	PASS
Band5	Stand-Alone	15kHz	NaN	QPSK	20525	1@11	NV	0	-12.55	-0.015003	±2.5	PASS
Band5	Stand-Alone	15kHz	NaN	QPSK	20525	1@11	NV	-10	-12.92	-0.015445	±2.5	PASS
Band5	Stand-Alone	15kHz	NaN	QPSK	20525	1@11	NV	-30	-14.55	-0.017394	±2.5	PASS
Band5	Stand-Alone	15kHz	NaN	QPSK	20525	1@11	NV	50	-13.75	-0.016438	±2.5	PASS
Band5	Stand-Alone	15kHz	NaN	QPSK	20525	1@11	NV	-20	-12.69	-0.015170	±2.5	PASS