

Appendix for NB-IOT Band 17

Product Name: NBloT Meter Interface Unit

Model No: AGIL WRPMIU 301

Appendix A: Average Power Output Data

Test Result

Band	OpMode	SCS	BW	Modu	Channel	Tones	Conducted POWER(dBm)	Verdict
Band 17	Stand-Al one	3.75kHz	NaN	BPSK	23731	1@0	23.75	PASS
Band 17	Stand-Al one	3.75kHz	NaN	BPSK	23731	1@47	23.75	PASS
Band 17	Stand-Al one	3.75kHz	NaN	BPSK	23790	1@0	23.97	PASS
Band 17	Stand-Al one	3.75kHz	NaN	BPSK	23790	1@47	23.97	PASS
Band 17	Stand-Al one	3.75kHz	NaN	BPSK	23849	1@0	24.07	PASS
Band 17	Stand-Al one	3.75kHz	NaN	BPSK	23849	1@47	24.08	PASS
Band 17	Stand-Al one	3.75kHz	NaN	QPSK	23731	1@0	22.80	PASS
Band 17	Stand-Al one	3.75kHz	NaN	QPSK	23731	1@47	23.79	PASS
Band 17	Stand-Al one	3.75kHz	NaN	QPSK	23790	1@0	24.02	PASS
Band 17	Stand-Al one	3.75kHz	NaN	QPSK	23790	1@47	24.01	PASS
Band 17	Stand-Al one	3.75kHz	NaN	QPSK	23849	1@0	24.12	PASS
Band 17	Stand-Al one	3.75kHz	NaN	QPSK	23849	1@47	24.11	PASS
Band 17	Stand-Al one	15kHz	NaN	BPSK	23731	1@0	22.84	PASS
Band 17	Stand-Al one	15kHz	NaN	BPSK	23731	1@11	22.83	PASS
Band 17	Stand-Al one	15kHz	NaN	BPSK	23790	1@0	23.23	PASS
Band 17	Stand-Al one	15kHz	NaN	BPSK	23790	1@11	23.22	PASS
Band 17	Stand-Al one	15kHz	NaN	BPSK	23849	1@0	23.06	PASS

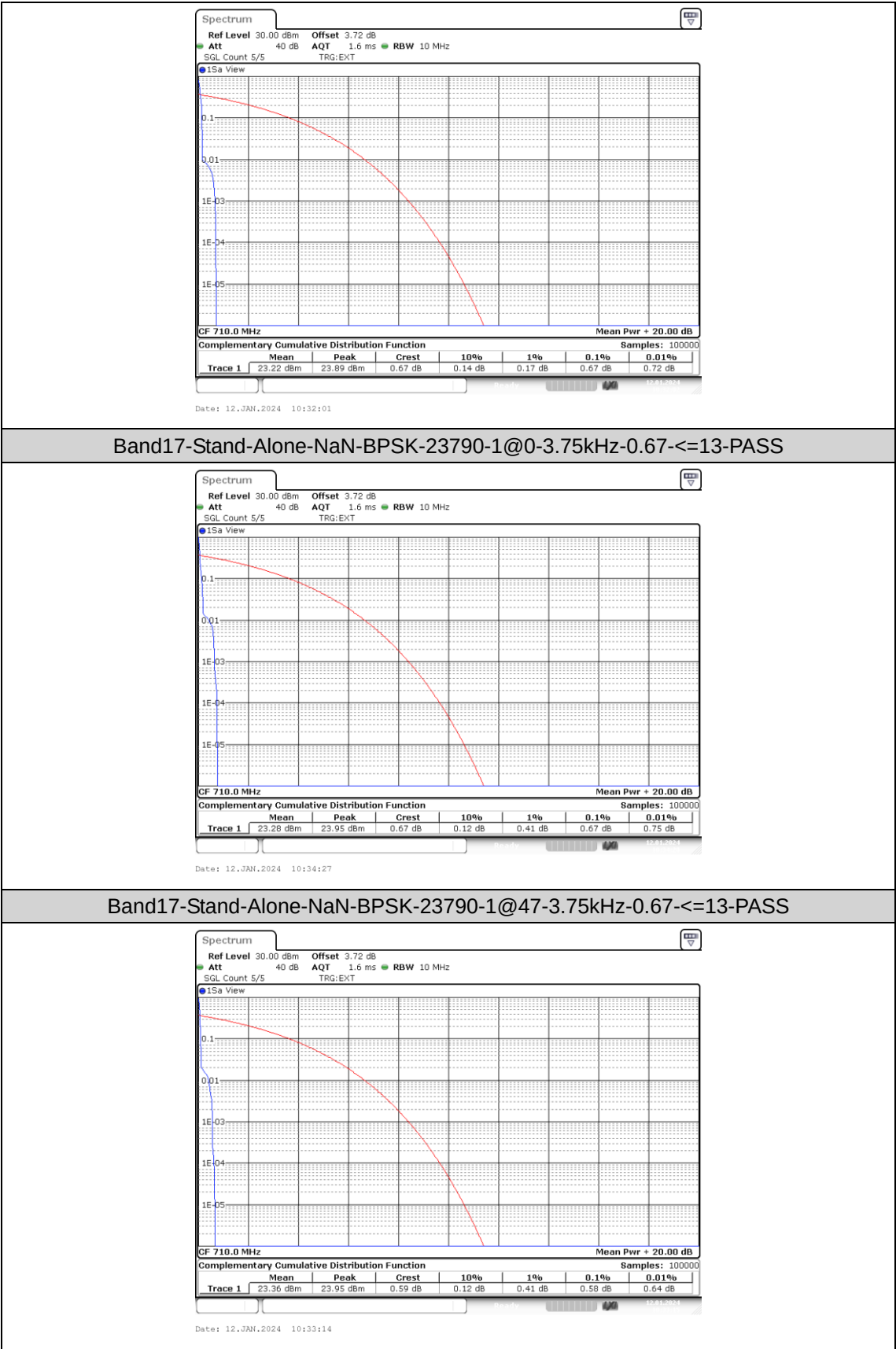
Band 17	Stand-Al one	15kHz	NaN	BPSK	23849	1@11	23.07	PASS
Band 17	Stand-Al one	15kHz	NaN	QPSK	23731	1@0	22.99	PASS
Band 17	Stand-Al one	15kHz	NaN	QPSK	23731	1@11	22.99	PASS
Band 17	Stand-Al one	15kHz	NaN	QPSK	23731	3@3	22.64	PASS
Band 17	Stand-Al one	15kHz	NaN	QPSK	23790	1@0	23.37	PASS
Band 17	Stand-Al one	15kHz	NaN	QPSK	23790	1@11	23.37	PASS
Band 17	Stand-Al one	15kHz	NaN	QPSK	23790	3@3	23.04	PASS
Band 17	Stand-Al one	15kHz	NaN	QPSK	23849	1@0	23.24	PASS
Band 17	Stand-Al one	15kHz	NaN	QPSK	23849	1@11	23.23	PASS
Band 17	Stand-Al one	15kHz	NaN	QPSK	23849	3@3	22.82	PASS

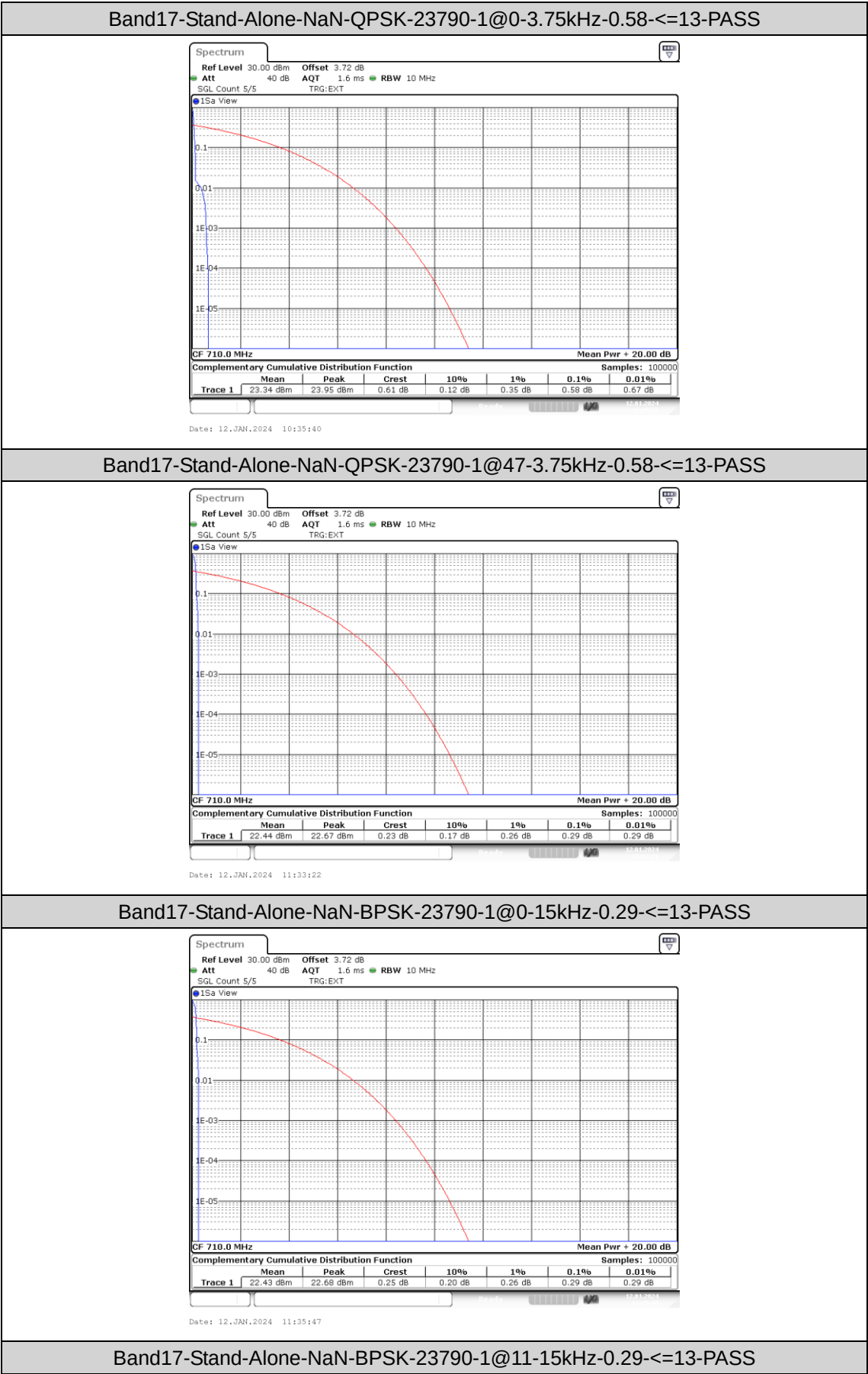
Appendix B: Peak-to-Average Ratio(CCDF)

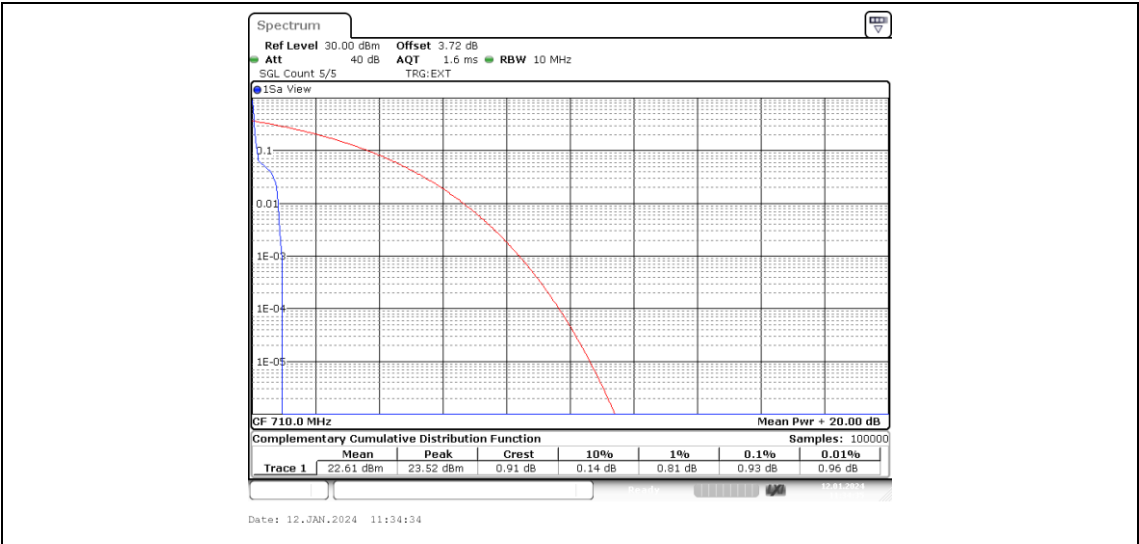
Test Result

Band	OpMode	SCS	BW	Modu	Channel	Tones	Result (dBm)	Limit (dBm)	Verdict
Band17	Stand-Alone	3.75kHz	NaN	BPSK	23790	1@0	0.67	<=13	PASS
Band17	Stand-Alone	3.75kHz	NaN	BPSK	23790	1@47	0.67	<=13	PASS
Band17	Stand-Alone	3.75kHz	NaN	QPSK	23790	1@0	0.58	<=13	PASS
Band17	Stand-Alone	3.75kHz	NaN	QPSK	23790	1@47	0.58	<=13	PASS
Band17	Stand-Alone	15kHz	NaN	BPSK	23790	1@0	0.29	<=13	PASS
Band17	Stand-Alone	15kHz	NaN	BPSK	23790	1@11	0.29	<=13	PASS
Band17	Stand-Alone	15kHz	NaN	QPSK	23790	1@0	0.93	<=13	PASS
Band17	Stand-Alone	15kHz	NaN	QPSK	23790	1@11	0.87	<=13	PASS
Band17	Stand-Alone	15kHz	NaN	QPSK	23790	3@3	1.83	<=13	PASS

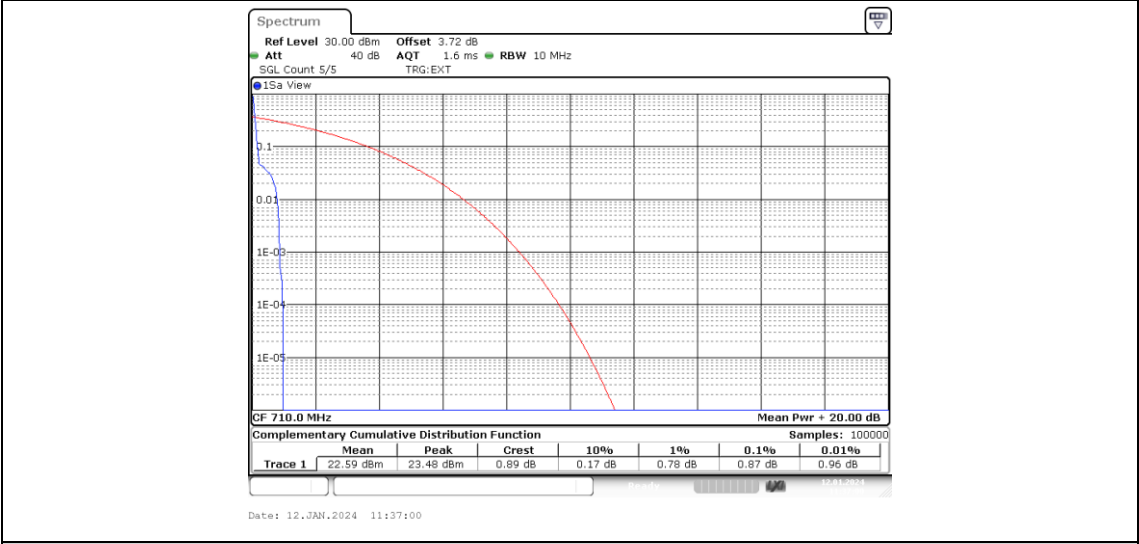
Test Graphs



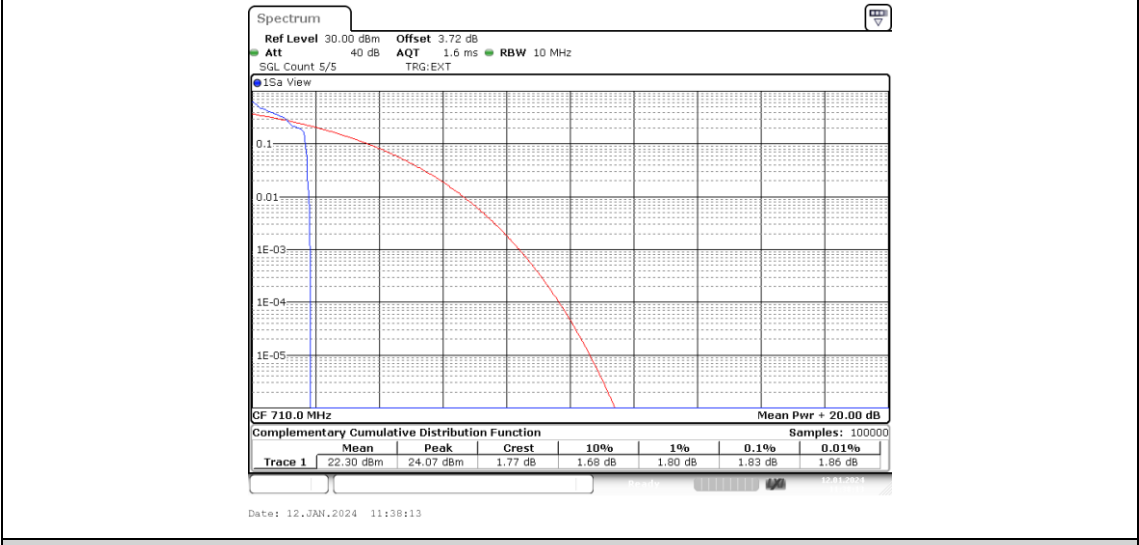




Band17-Stand-Alone-NaN-QPSK-23790-1@0-15kHz-0.93-<=13-PASS



Band17-Stand-Alone-NaN-QPSK-23790-1@11-15kHz-0.87-<=13-PASS



Band17-Stand-Alone-NaN-QPSK-23790-3@3-15kHz-1.83-<=13-PASS

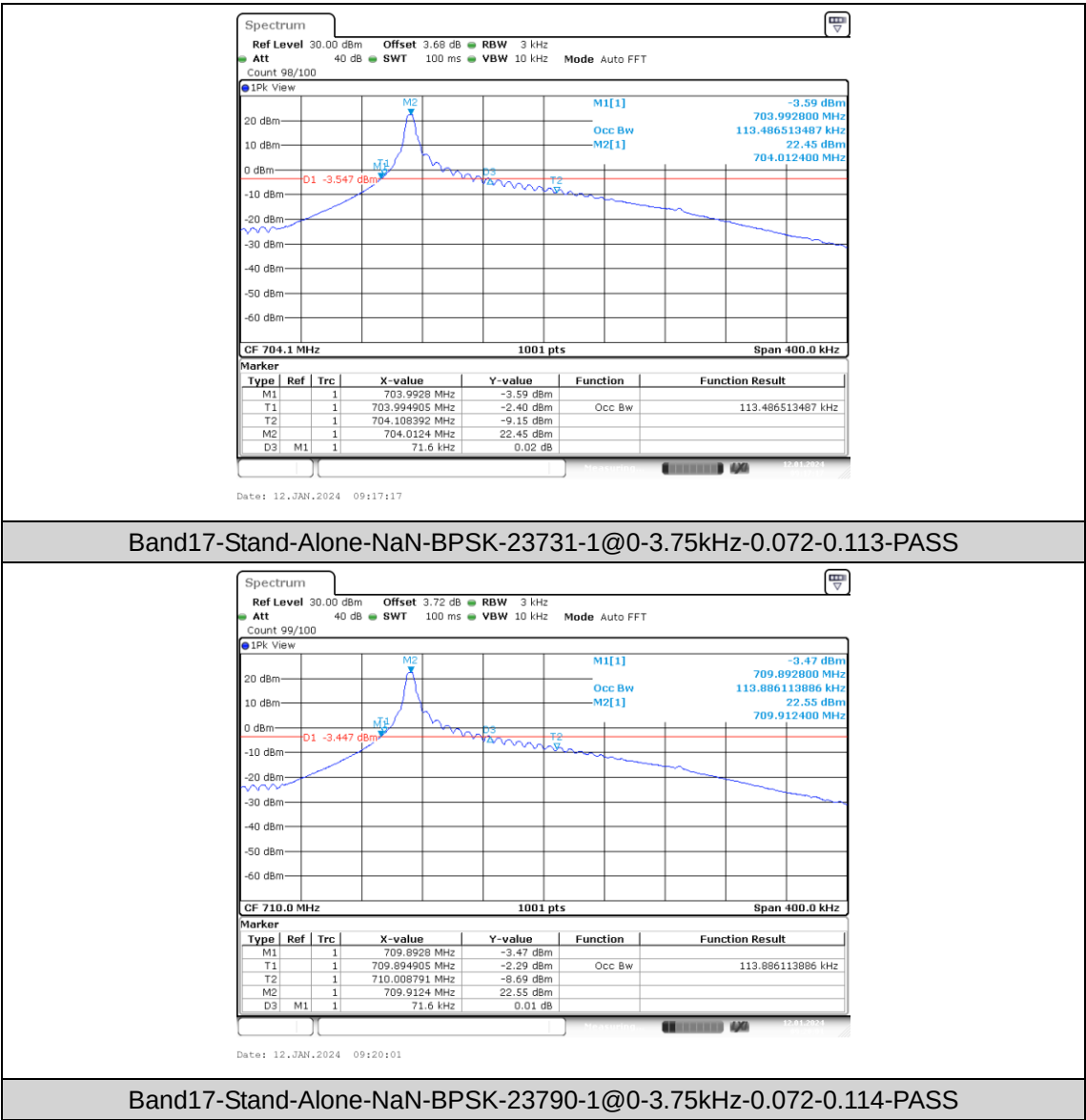
Appendix C: Emission Bandwidth

Test Result

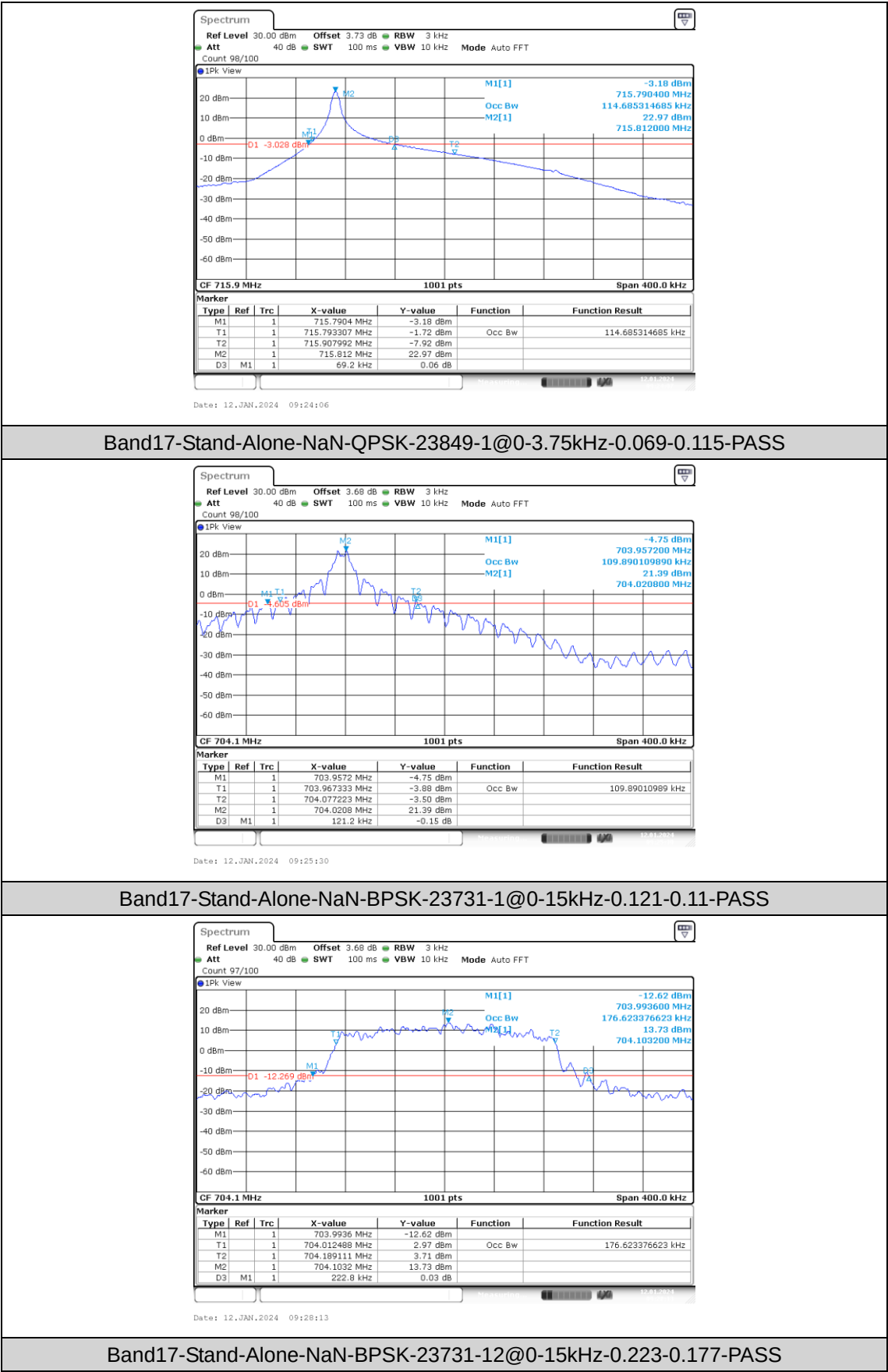
Band	OpMode	SCS	BW	Modu	Channel	Tones	OBW(MHz)	EBW(MHz)	Verdict
Band17	Stand-Alone	3.75kHz	NaN	BPSK	23731	1@0	0.113	0.072	PASS
Band17	Stand-Alone	3.75kHz	NaN	BPSK	23790	1@0	0.114	0.072	PASS
Band17	Stand-Alone	3.75kHz	NaN	BPSK	23849	1@0	0.114	0.072	PASS
Band17	Stand-Alone	3.75kHz	NaN	QPSK	23731	1@0	0.114	0.069	PASS
Band17	Stand-Alone	3.75kHz	NaN	QPSK	23790	1@0	0.114	0.069	PASS
Band17	Stand-Alone	3.75kHz	NaN	QPSK	23849	1@0	0.115	0.069	PASS
Band17	Stand-Alone	15kHz	NaN	BPSK	23731	1@0	0.11	0.121	PASS
Band17	Stand-Alone	15kHz	NaN	BPSK	23731	12@0	0.177	0.223	PASS
Band17	Stand-Alone	15kHz	NaN	BPSK	23790	1@0	0.11	0.121	PASS
Band17	Stand-Alone	15kHz	NaN	BPSK	23790	12@0	0.177	0.223	PASS
Band17	Stand-Alone	15kHz	NaN	BPSK	23849	1@0	0.109	0.121	PASS
Band17	Stand-Alone	15kHz	NaN	BPSK	23849	12@0	0.177	0.222	PASS
Band17	Stand-Alone	15kHz	NaN	QPSK	23731	1@0	0.133	0.161	PASS
Band17	Stand-Alone	15kHz	NaN	QPSK	23731	12@0	0.177	0.223	PASS
Band17	Stand-Alone	15kHz	NaN	QPSK	23790	1@0	0.133	0.161	PASS
Band17	Stand-Alone	15kHz	NaN	QPSK	23790	12@0	0.177	0.223	PASS
Band17	Stand-Alone	15kHz	NaN	QPSK	23849	1@0	0.132	0.161	PASS

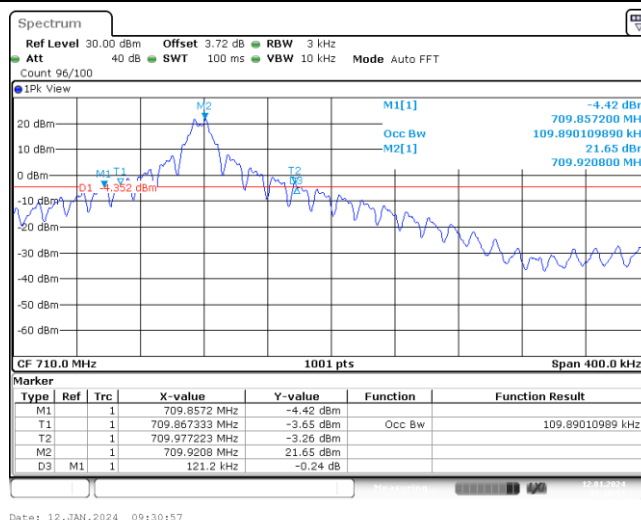
Band17	Stand-Al one	15kHz	NaN	QPSK	23849	12@0	0.177	0.222	PASS
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Test Graphs

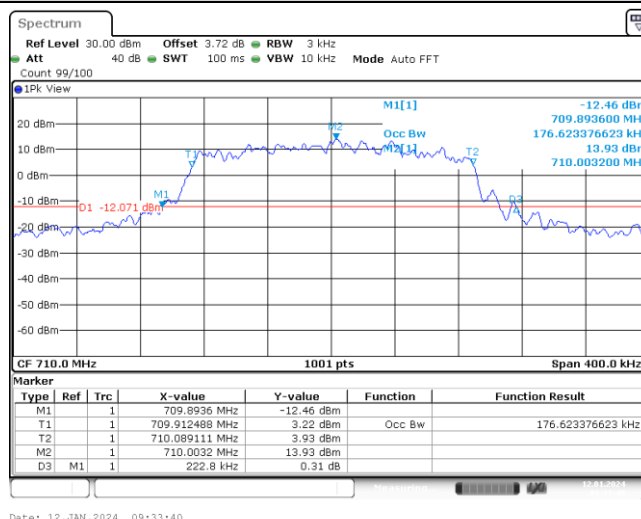




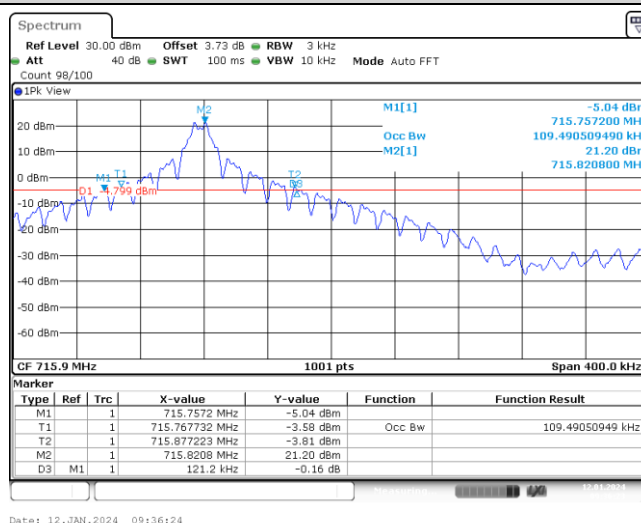




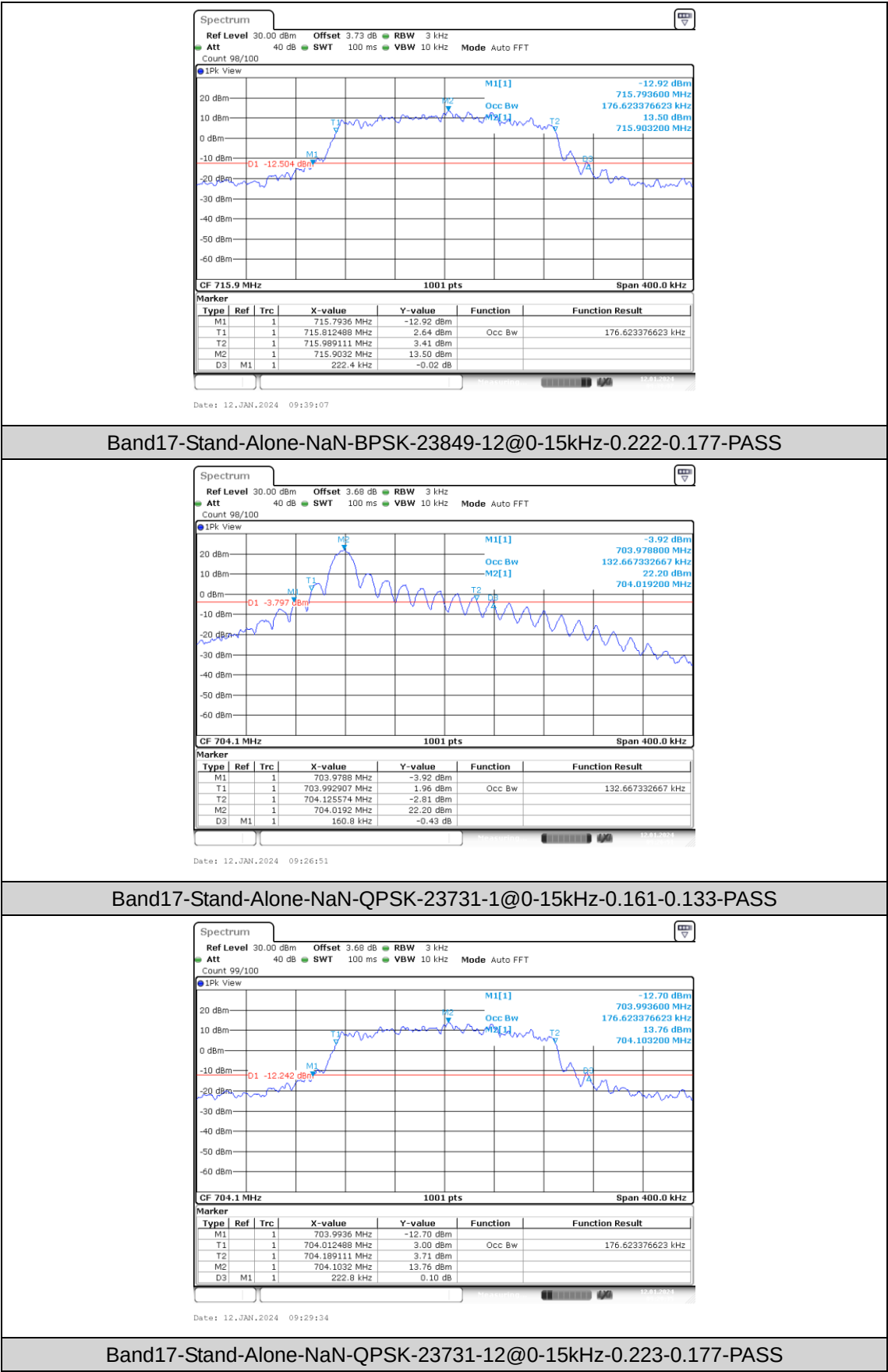
Band17-Stand-Alone-NaN-BPSK-23790-1@0-15kHz-0.121-0.11-PASS



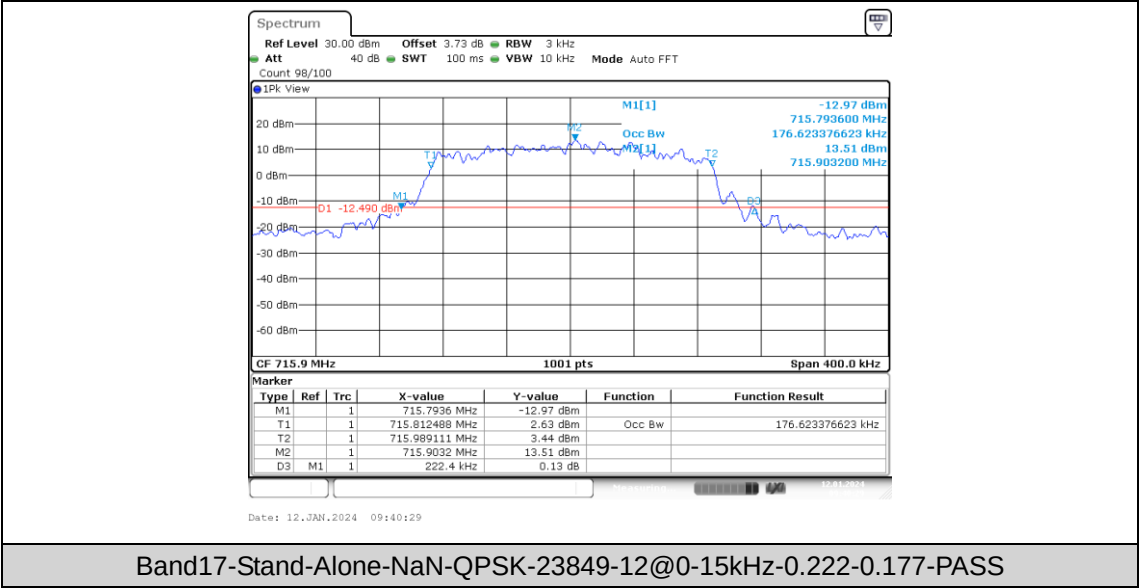
Band17-Stand-Alone-NaN-BPSK-23790-12@0-15kHz-0.223-0.177-PASS



Band17-Stand-Alone-NaN-BPSK-23849-1@0-15kHz-0.121-0.109-PASS







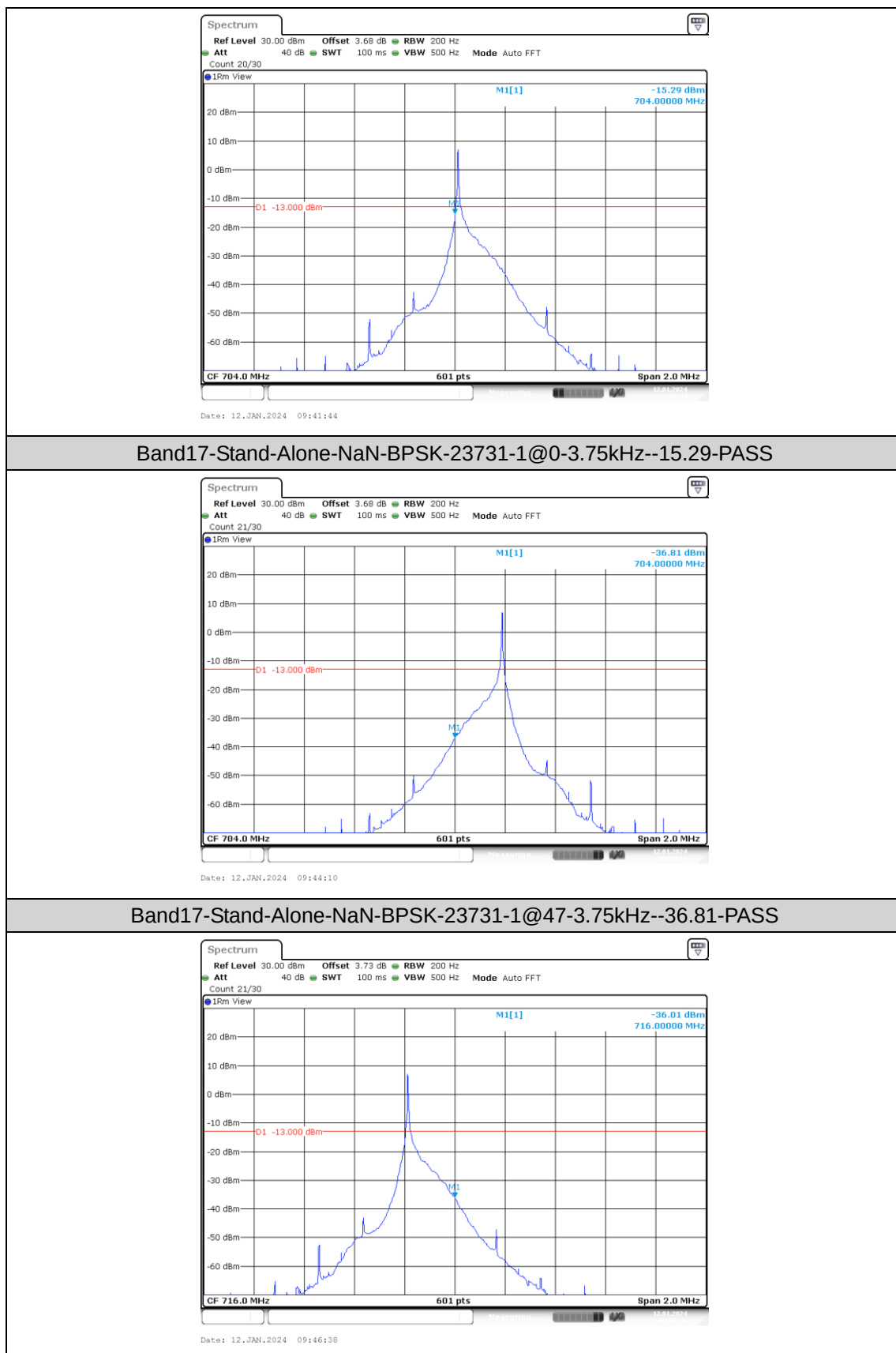
Appendix D: Band Edge

Test Result

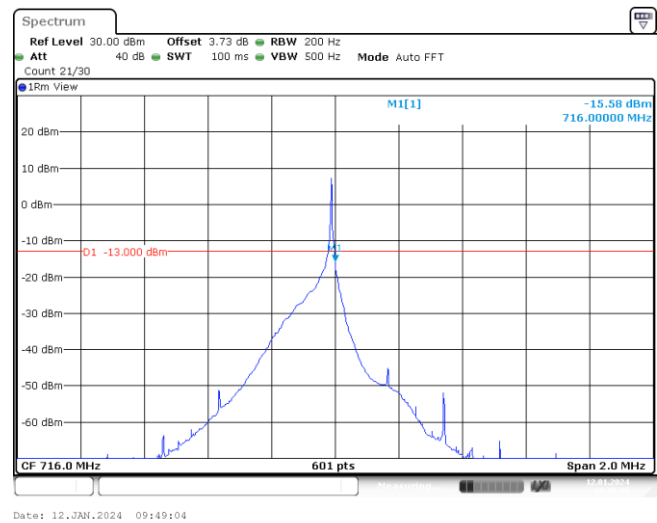
Band	OpMode	SCS	BW	Modu	Channel	Tones	Result (dBm)	Verdict
Band17	Stand-Alone	3.75kHz	NaN	BPSK	23731	1@0	-15.29	PASS
Band17	Stand-Alone	3.75kHz	NaN	BPSK	23731	1@47	-36.81	PASS
Band17	Stand-Alone	3.75kHz	NaN	BPSK	23849	1@0	-36.01	PASS
Band17	Stand-Alone	3.75kHz	NaN	BPSK	23849	1@47	-15.58	PASS
Band17	Stand-Alone	3.75kHz	NaN	QPSK	23731	1@0	-16.95	PASS
Band17	Stand-Alone	3.75kHz	NaN	QPSK	23731	1@47	-39.78	PASS
Band17	Stand-Alone	3.75kHz	NaN	QPSK	23849	1@0	-40.61	PASS
Band17	Stand-Alone	3.75kHz	NaN	QPSK	23849	1@47	-16.51	PASS
Band17	Stand-Alone	15kHz	NaN	BPSK	23731	1@0	-13.36	PASS
Band17	Stand-Alone	15kHz	NaN	BPSK	23731	1@11	-47.68	PASS
Band17	Stand-Alone	15kHz	NaN	BPSK	23731	12@0	-29.98	PASS
Band17	Stand-Alone	15kHz	NaN	BPSK	23849	1@0	-48.93	PASS
Band17	Stand-Alone	15kHz	NaN	BPSK	23849	1@11	-13.89	PASS
Band17	Stand-Alone	15kHz	NaN	BPSK	23849	12@0	-22.44	PASS
Band17	Stand-Alone	15kHz	NaN	QPSK	23731	1@0	-17.68	PASS
Band17	Stand-Alone	15kHz	NaN	QPSK	23731	1@11	-37.11	PASS
Band17	Stand-Alone	15kHz	NaN	QPSK	23731	12@0	-27.0	PASS

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Band17	Stand-Alone	15kHz	NaN	QPSK	23849	1@0	-38.5 6	PASS
Band17	Stand-Alone	15kHz	NaN	QPSK	23849	1@11	-17.8 7	PASS
Band17	Stand-Alone	15kHz	NaN	QPSK	23849	12@0	-26.8 2	PASS

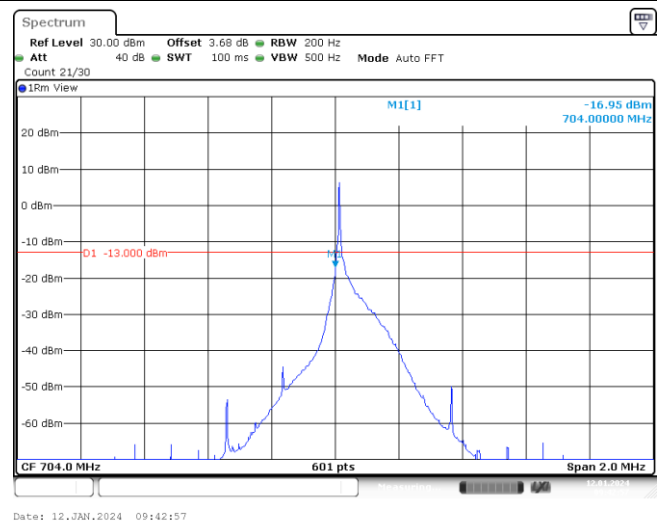
Test Graphs



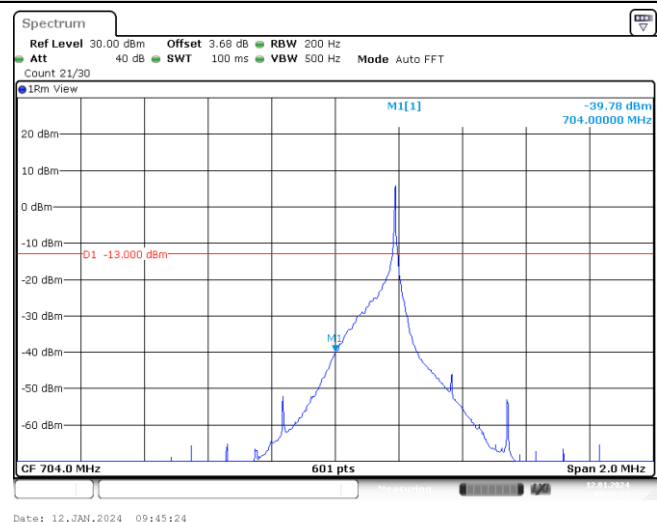
Band17-Stand-Alone-NaN-BPSK-23849-1@0-3.75kHz--36.01-PASS



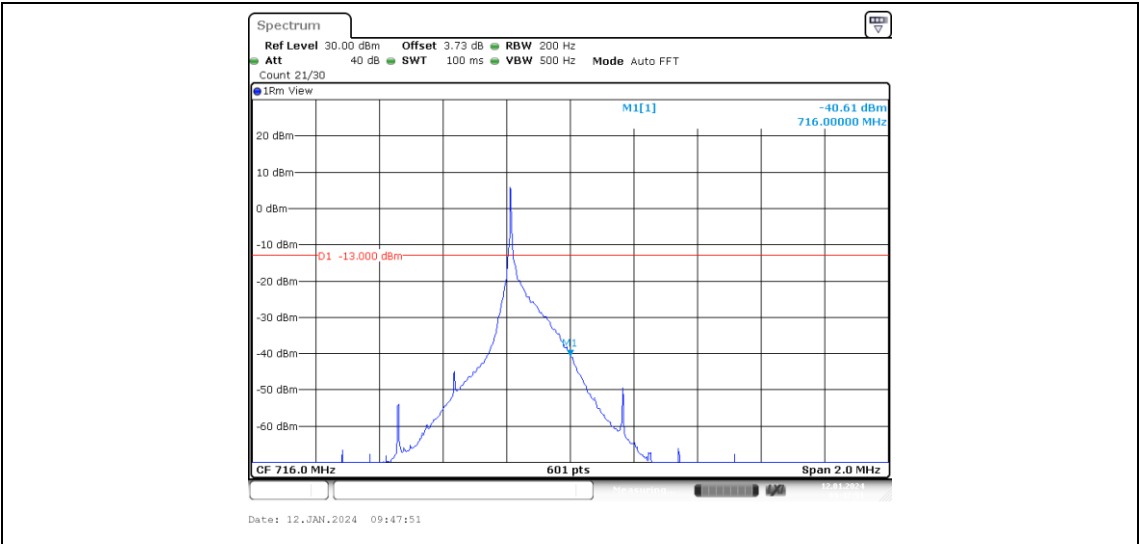
Band17-Stand-Alone-NaN-BPSK-23849-1@47-3.75kHz--15.58-PASS



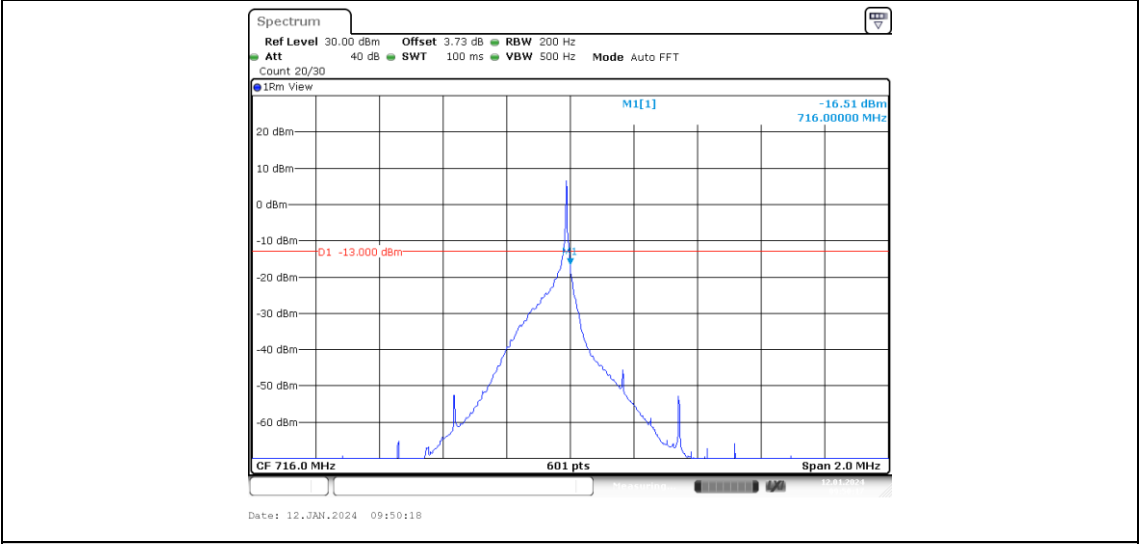
Band17-Stand-Alone-NaN-QPSK-23731-1@0-3.75kHz--16.95-PASS



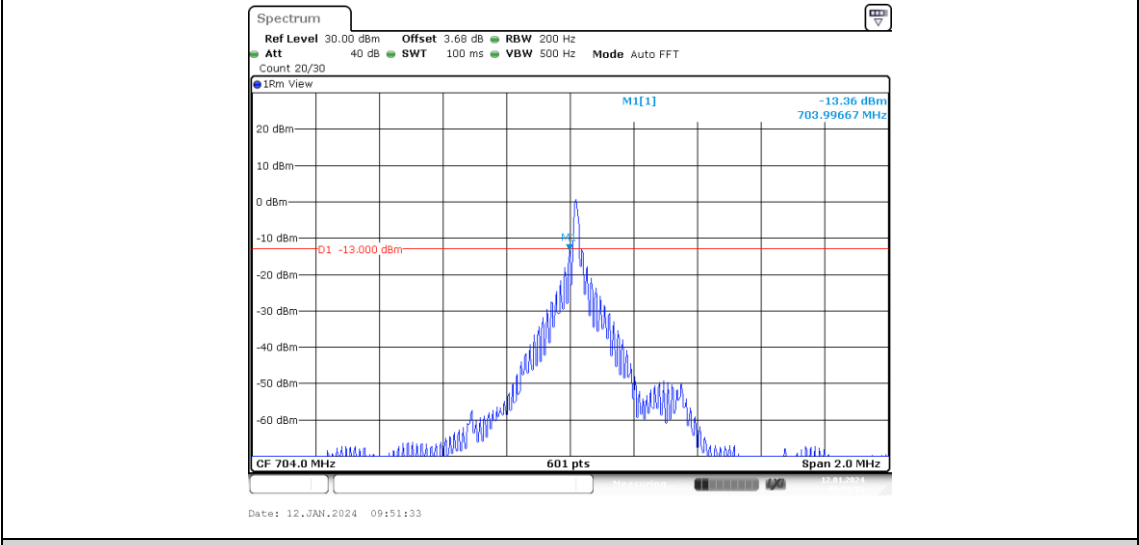
Band17-Stand-Alone-NaN-QPSK-23731-1@47-3.75kHz--39.78-PASS



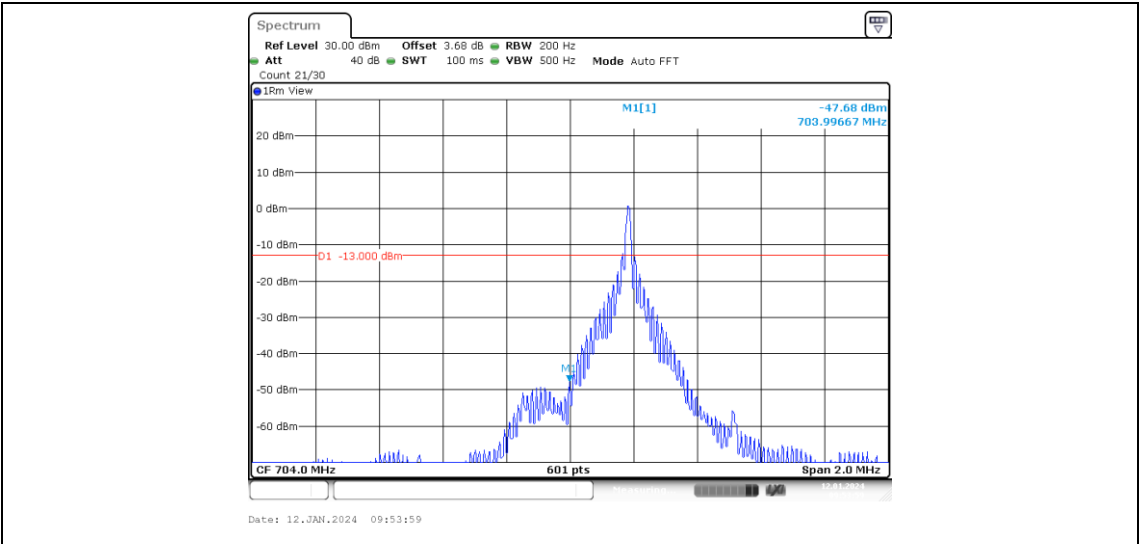
Band17-Stand-Alone-NaN-QPSK-23849-1@0-3.75kHz--40.61-PASS



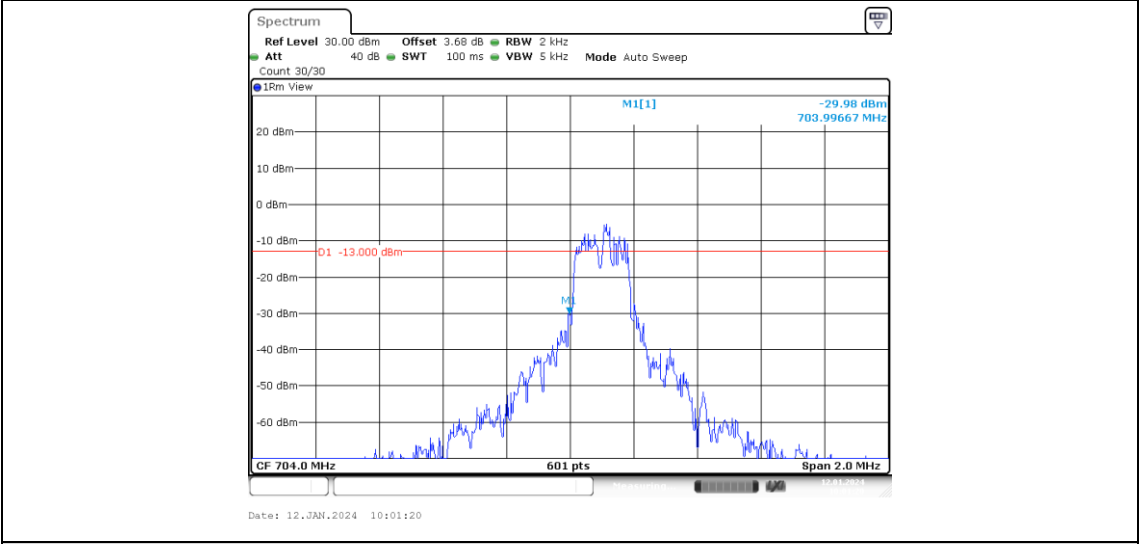
Band17-Stand-Alone-NaN-QPSK-23849-1@47-3.75kHz--16.51-PASS



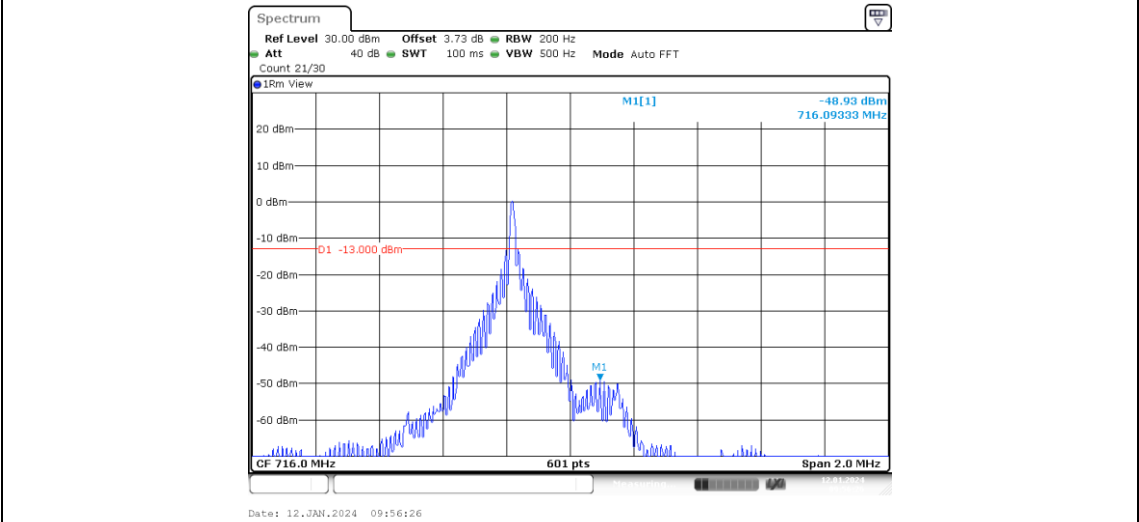
Band17-Stand-Alone-NaN-BPSK-23731-1@0-15kHz--13.36-PASS



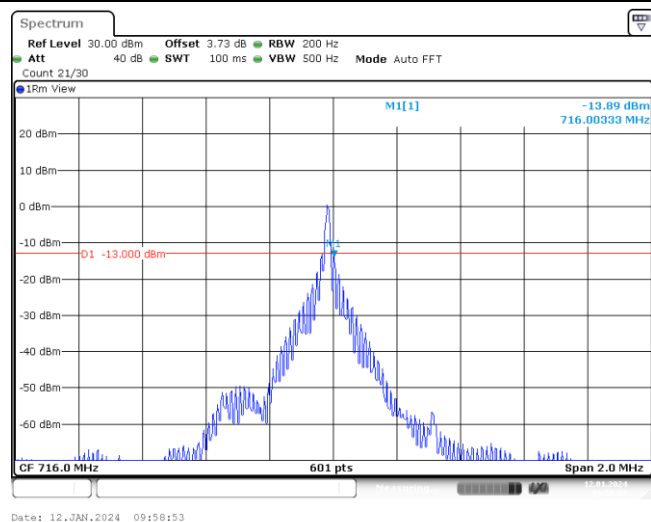
Band17-Stand-Alone-NaN-BPSK-23731-1@11-15kHz--47.68-PASS



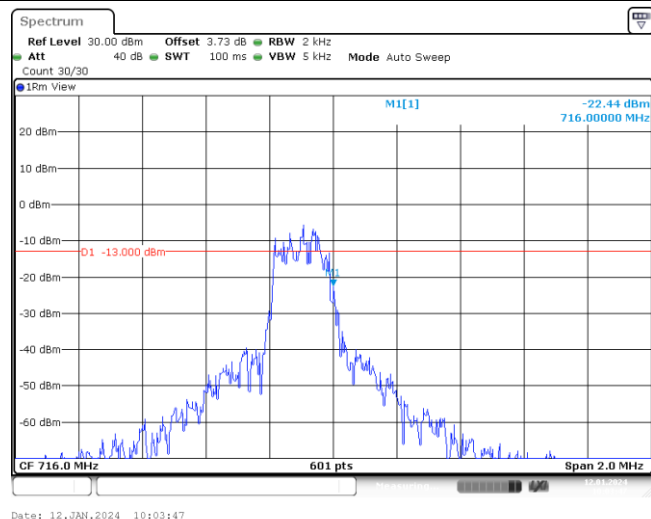
Band17-Stand-Alone-NaN-BPSK-23731-12@0-15kHz--29.98-PASS



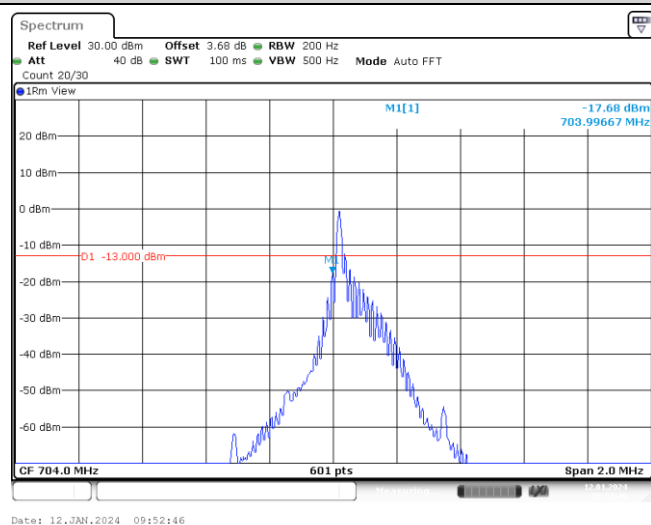
Band17-Stand-Alone-NaN-BPSK-23849-1@0-15kHz--48.93-PASS



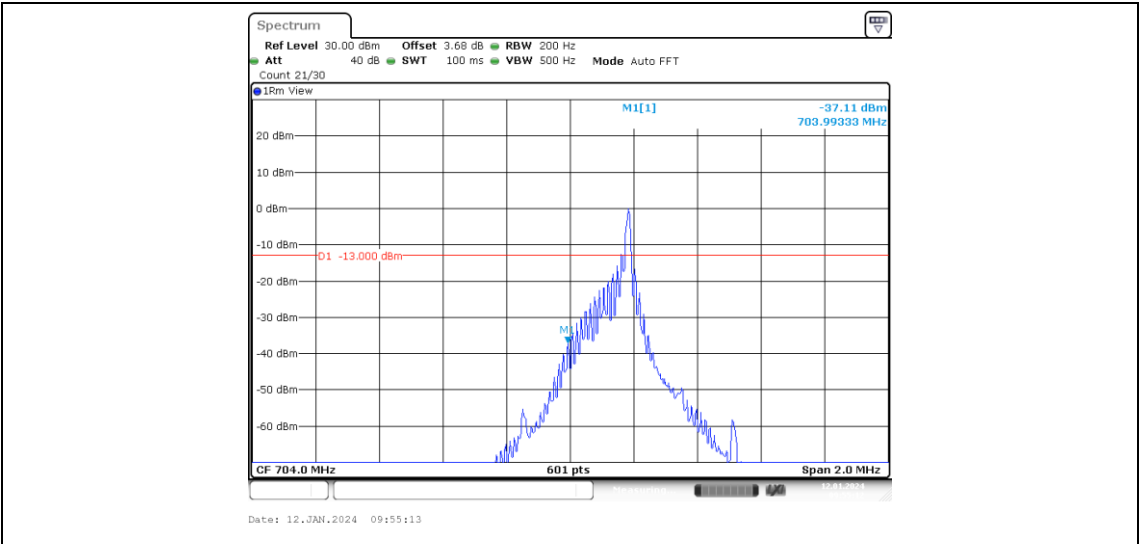
Band17-Stand-Alone-NaN-BPSK-23849-1@11-15kHz--13.89-PASS



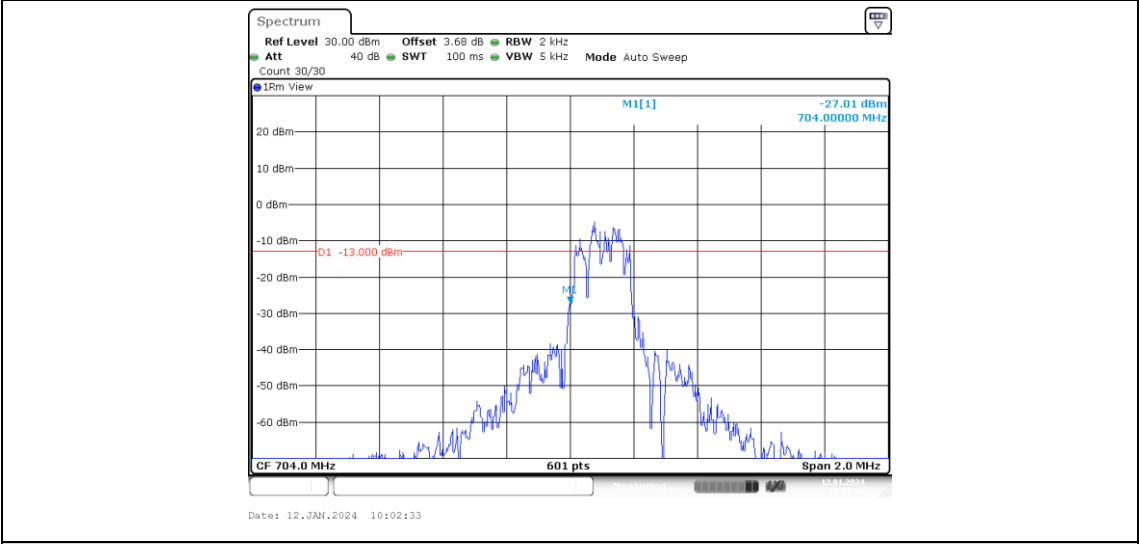
Band17-Stand-Alone-NaN-BPSK-23849-12@0-15kHz--22.44-PASS



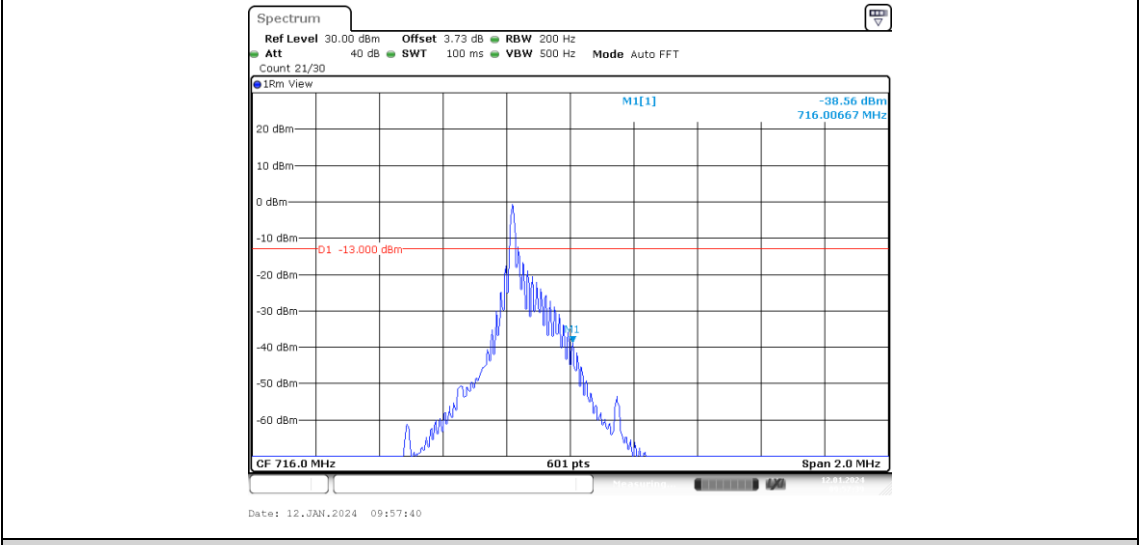
Band17-Stand-Alone-NaN-QPSK-23731-1@0-15kHz--17.68-PASS



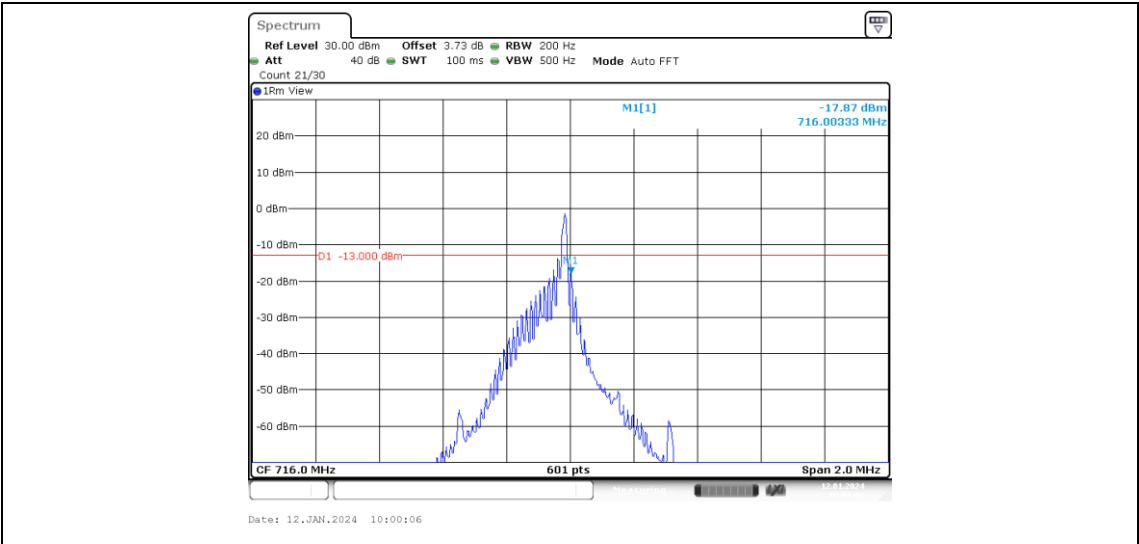
Band17-Stand-Alone-NaN-QPSK-23731-1@11-15kHz--37.11-PASS



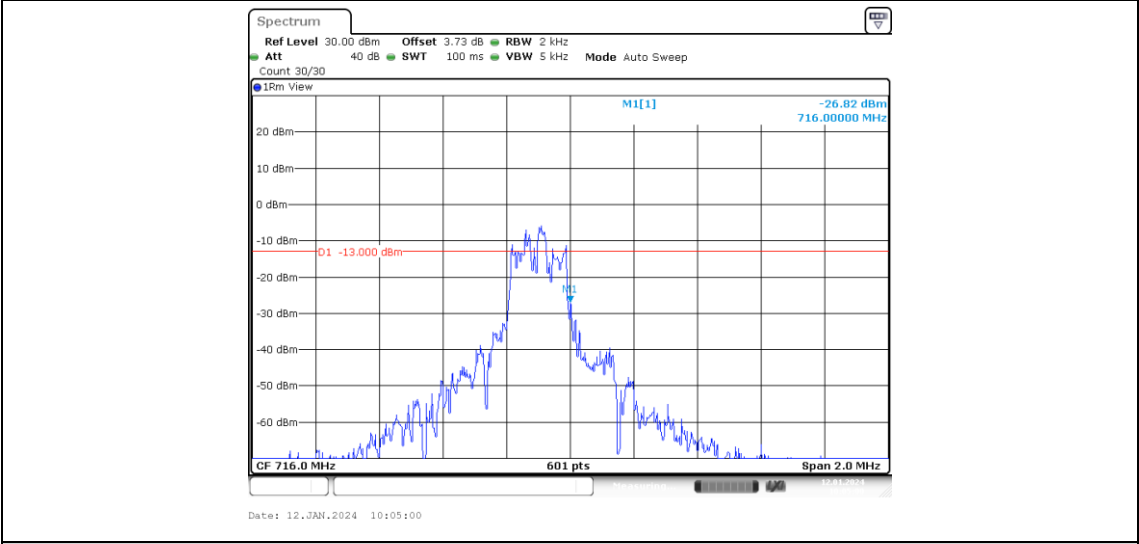
Band17-Stand-Alone-NaN-QPSK-23731-12@0-15kHz--27.01-PASS



Band17-Stand-Alone-NaN-QPSK-23849-1@0-15kHz--38.56-PASS



Band17-Stand-Alone-NaN-QPSK-23849-1@11-15kHz--17.87-PASS



Band17-Stand-Alone-NaN-QPSK-23849-12@0-15kHz--26.82-PASS

Appendix E: Conducted Spurious Emission

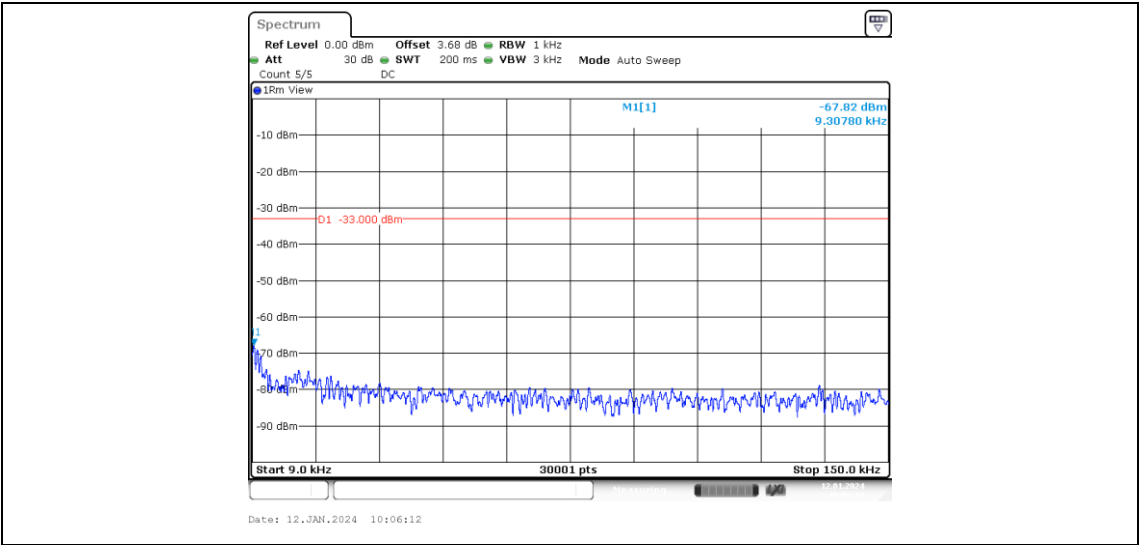
Test Result

Band	OpMode	SCS	BW	Modu	Channel	Tones	Freq Start [MHz]	Freq Stop [MHz]	Result (dBm)	Limit (dBm)	Verdict
Band1 7	Stand-Alone	3.75kHz	NaN	QPSK	23731	1@0	0.009	0.15	-67.82	-33	PASS
Band1 7	Stand-Alone	3.75kHz	NaN	QPSK	23731	1@0	0.15	30	-77.65	-23	PASS
Band1 7	Stand-Alone	3.75kHz	NaN	QPSK	23731	1@0	30	1000	-53.76	-13	PASS
Band1 7	Stand-Alone	3.75kHz	NaN	QPSK	23731	1@0	1000	10000	-42.15	-13	PASS
Band1 7	Stand-Alone	3.75kHz	NaN	QPSK	23731	1@47	0.009	0.15	-67.16	-33	PASS
Band1 7	Stand-Alone	3.75kHz	NaN	QPSK	23731	1@47	0.15	30	-74.96	-23	PASS
Band1 7	Stand-Alone	3.75kHz	NaN	QPSK	23731	1@47	30	1000	-55.22	-13	PASS
Band1 7	Stand-Alone	3.75kHz	NaN	QPSK	23731	1@47	1000	10000	-42.87	-13	PASS
Band1 7	Stand-Alone	3.75kHz	NaN	QPSK	23790	1@0	0.009	0.15	-66.63	-33	PASS
Band1 7	Stand-Alone	3.75kHz	NaN	QPSK	23790	1@0	0.15	30	-74.92	-23	PASS
Band1 7	Stand-Alone	3.75kHz	NaN	QPSK	23790	1@0	30	1000	-57.56	-13	PASS
Band1 7	Stand-Alone	3.75kHz	NaN	QPSK	23790	1@0	1000	10000	-44	-13	PASS
Band1 7	Stand-Alone	3.75kHz	NaN	QPSK	23790	1@47	0.009	0.15	-66.37	-33	PASS
Band1 7	Stand-Alone	3.75kHz	NaN	QPSK	23790	1@47	0.15	30	-76.96	-23	PASS
Band1 7	Stand-Alone	3.75kHz	NaN	QPSK	23790	1@47	30	1000	-56.34	-13	PASS
Band1 7	Stand-Alone	3.75kHz	NaN	QPSK	23790	1@47	1000	10000	-44.02	-13	PASS
Band1 7	Stand-Alone	3.75kHz	NaN	QPSK	23849	1@0	0.009	0.15	-68.93	-33	PASS

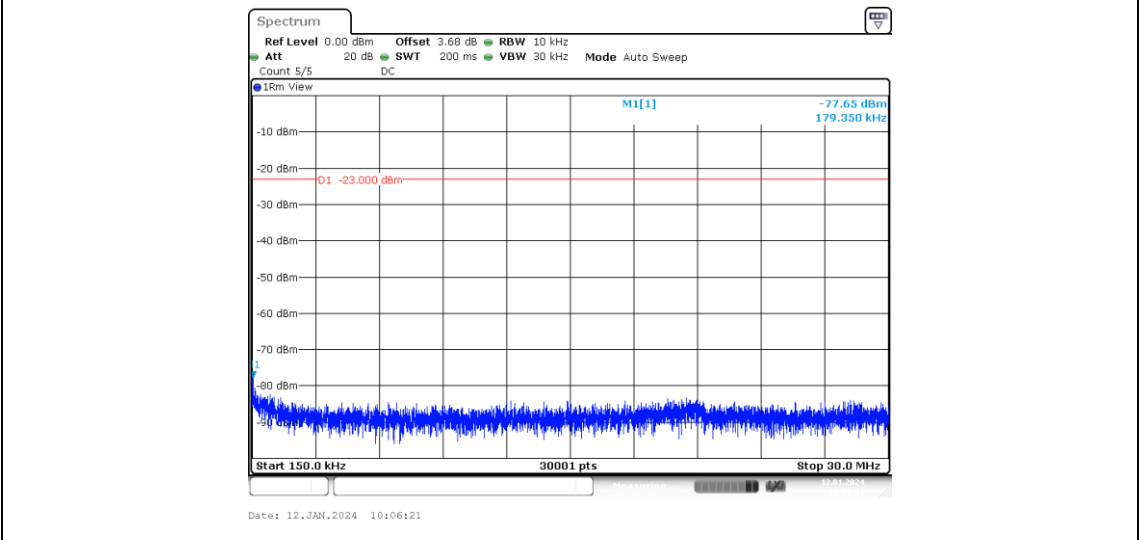
Band1 7	Stand-Alon e	3.75kHz	NaN	QPSK	23849	1@0	0.15	30	-79.81	-23	PASS
Band1 7	Stand-Alon e	3.75kHz	NaN	QPSK	23849	1@0	30	1000	-59.54	-13	PASS
Band1 7	Stand-Alon e	3.75kHz	NaN	QPSK	23849	1@0	1000	1000 0	-44.3	-13	PASS
Band1 7	Stand-Alon e	3.75kHz	NaN	QPSK	23849	1@47	0.009	0.15	-67.6	-33	PASS
Band1 7	Stand-Alon e	3.75kHz	NaN	QPSK	23849	1@47	0.15	30	-78.71	-23	PASS
Band1 7	Stand-Alon e	3.75kHz	NaN	QPSK	23849	1@47	30	1000	-59.04	-13	PASS
Band1 7	Stand-Alon e	3.75kHz	NaN	QPSK	23849	1@47	1000	1000 0	-45.08	-13	PASS
Band1 7	Stand-Alon e	15kHz	NaN	BPSK	23731	1@0	0.009	0.15	-69.14	-33	PASS
Band1 7	Stand-Alon e	15kHz	NaN	BPSK	23731	1@0	0.15	30	-78.36	-23	PASS
Band1 7	Stand-Alon e	15kHz	NaN	BPSK	23731	1@0	30	1000	-56.75	-13	PASS
Band1 7	Stand-Alon e	15kHz	NaN	BPSK	23731	1@0	1000	1000 0	-43.58	-13	PASS
Band1 7	Stand-Alon e	15kHz	NaN	BPSK	23731	1@11	0.009	0.15	-70.66	-33	PASS
Band1 7	Stand-Alon e	15kHz	NaN	BPSK	23731	1@11	0.15	30	-78.2	-23	PASS
Band1 7	Stand-Alon e	15kHz	NaN	BPSK	23731	1@11	30	1000	-57.2	-13	PASS
Band1 7	Stand-Alon e	15kHz	NaN	BPSK	23731	1@11	1000	1000 0	-43.64	-13	PASS
Band1 7	Stand-Alon e	15kHz	NaN	BPSK	23790	1@0	0.009	0.15	-71.16	-33	PASS
Band1 7	Stand-Alon e	15kHz	NaN	BPSK	23790	1@0	0.15	30	-78.74	-23	PASS
Band1 7	Stand-Alon e	15kHz	NaN	BPSK	23790	1@0	30	1000	-57.82	-13	PASS
Band1 7	Stand-Alon e	15kHz	NaN	BPSK	23790	1@0	1000	1000 0	-44.23	-13	PASS
Band1 7	Stand-Alon e	15kHz	NaN	BPSK	23790	1@11	0.009	0.15	-70.53	-33	PASS
Band1 7	Stand-Alon e	15kHz	NaN	BPSK	23790	1@11	0.15	30	-81.01	-23	PASS
Band1	Stand-Alon	15kHz	NaN	BPSK	23790	1@11	30	1000	-56.94	-13	PASS

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Band1 7	Stand-Alon e	15kHz	NaN	BPSK	23790	1@11	1000	1000 0	-44.67	-13	PASS
Band1 7	Stand-Alon e	15kHz	NaN	BPSK	23849	1@0	0.009	0.15	-73.51	-33	PASS
Band1 7	Stand-Alon e	15kHz	NaN	BPSK	23849	1@0	0.15	30	-79.45	-23	PASS
Band1 7	Stand-Alon e	15kHz	NaN	BPSK	23849	1@0	30	1000	-59.09	-13	PASS
Band1 7	Stand-Alon e	15kHz	NaN	BPSK	23849	1@0	1000	1000 0	-47.95	-13	PASS
Band1 7	Stand-Alon e	15kHz	NaN	BPSK	23849	1@11	0.009	0.15	-73.48	-33	PASS
Band1 7	Stand-Alon e	15kHz	NaN	BPSK	23849	1@11	0.15	30	-80.11	-23	PASS
Band1 7	Stand-Alon e	15kHz	NaN	BPSK	23849	1@11	30	1000	-59.4	-13	PASS
Band1 7	Stand-Alon e	15kHz	NaN	BPSK	23849	1@11	1000	1000 0	-46.9	-13	PASS
Band1 7	Stand-Alon e	15kHz	NaN	QPSK	23731	12@0	0.009	0.15	-69.6	-33	PASS
Band1 7	Stand-Alon e	15kHz	NaN	QPSK	23731	12@0	0.15	30	-75.26	-23	PASS
Band1 7	Stand-Alon e	15kHz	NaN	QPSK	23731	12@0	30	1000	-64.34	-13	PASS
Band1 7	Stand-Alon e	15kHz	NaN	QPSK	23731	12@0	1000	1000 0	-50.46	-13	PASS
Band1 7	Stand-Alon e	15kHz	NaN	QPSK	23790	12@0	0.009	0.15	-69.96	-33	PASS
Band1 7	Stand-Alon e	15kHz	NaN	QPSK	23790	12@0	0.15	30	-67.7	-23	PASS
Band1 7	Stand-Alon e	15kHz	NaN	QPSK	23790	12@0	30	1000	-64.45	-13	PASS
Band1 7	Stand-Alon e	15kHz	NaN	QPSK	23790	12@0	1000	1000 0	-50.29	-13	PASS
Band1 7	Stand-Alon e	15kHz	NaN	QPSK	23849	12@0	0.009	0.15	-71.26	-33	PASS
Band1 7	Stand-Alon e	15kHz	NaN	QPSK	23849	12@0	0.15	30	-79.75	-23	PASS
Band1 7	Stand-Alon e	15kHz	NaN	QPSK	23849	12@0	30	1000	-59.31	-13	PASS
Band1 7	Stand-Alon e	15kHz	NaN	QPSK	23849	12@0	1000	1000 0	-50.43	-13	PASS

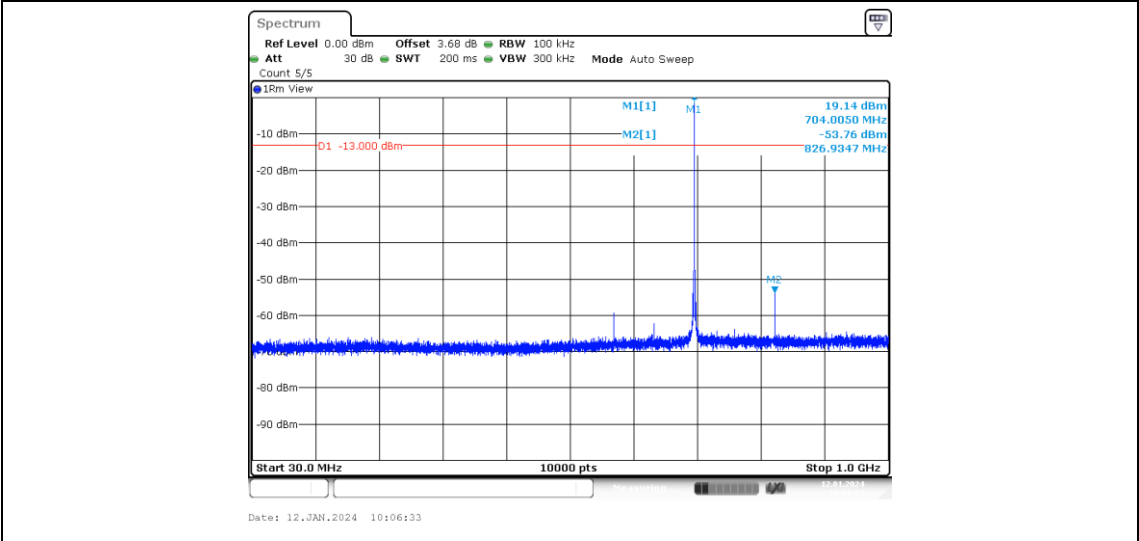
Test Graphs

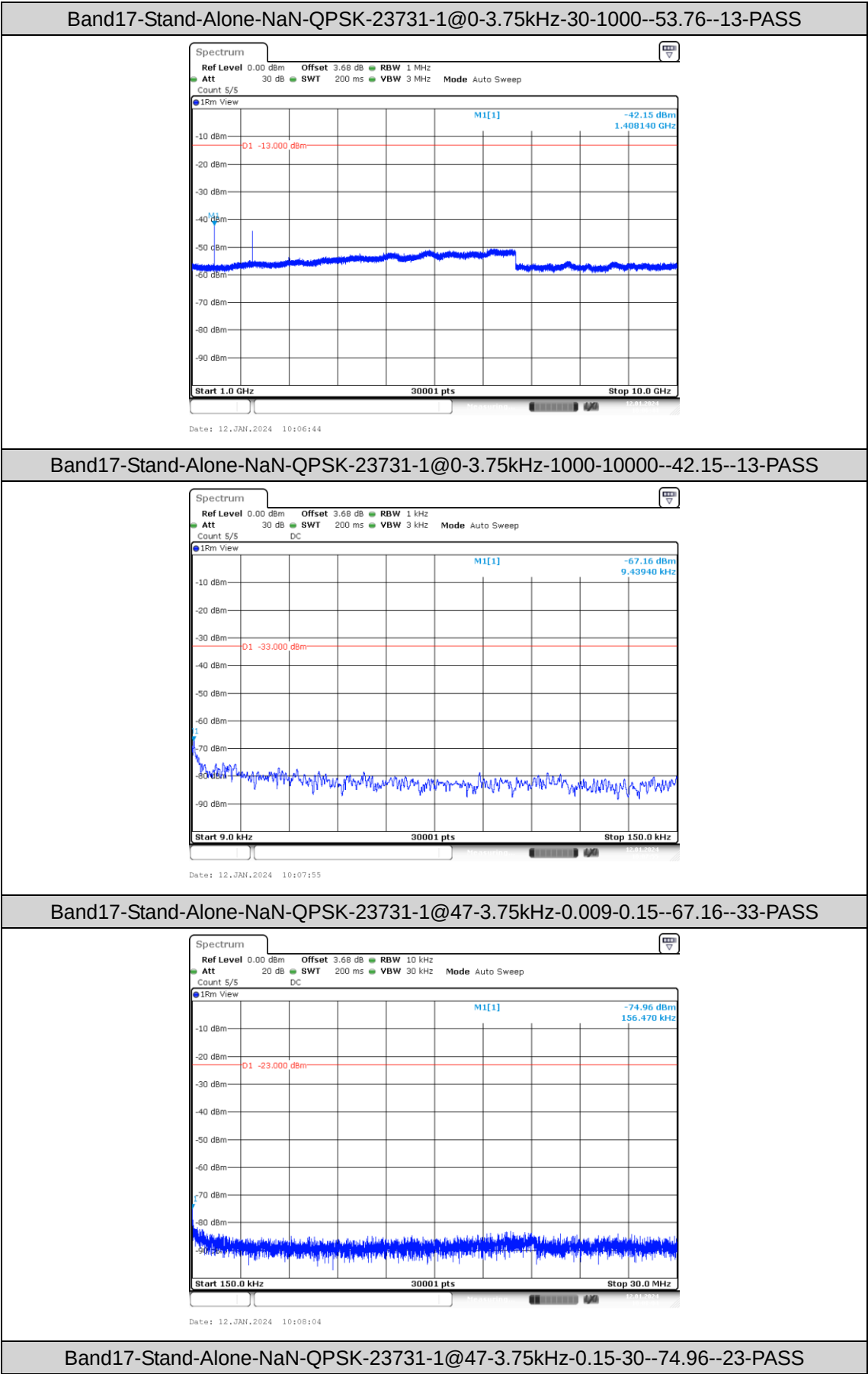


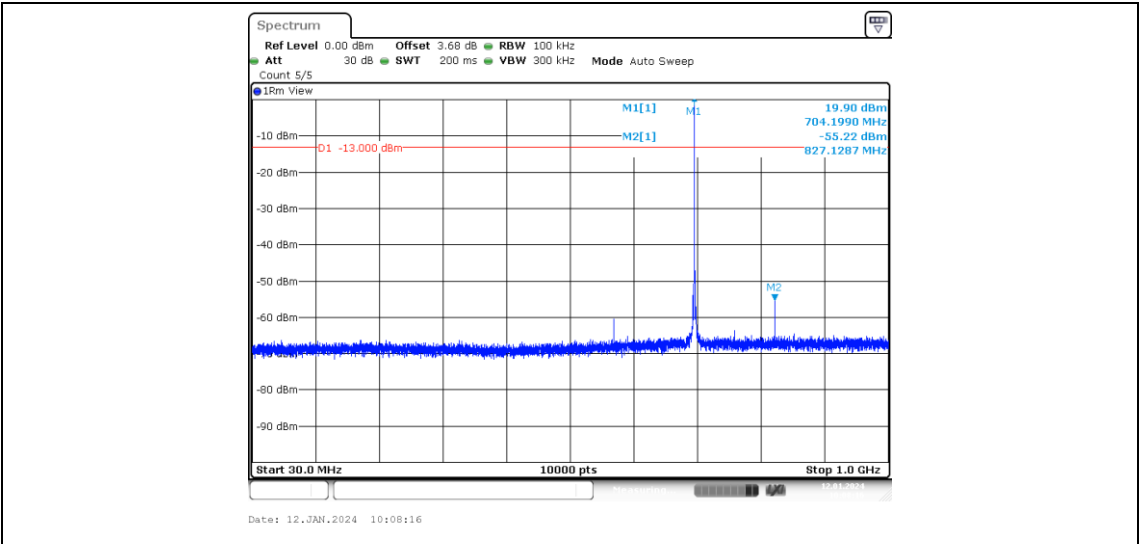
Band17-Stand-Alone-NaN-QPSK-23731-1@0-3.75kHz-0.009-0.15--67.82--33-PASS



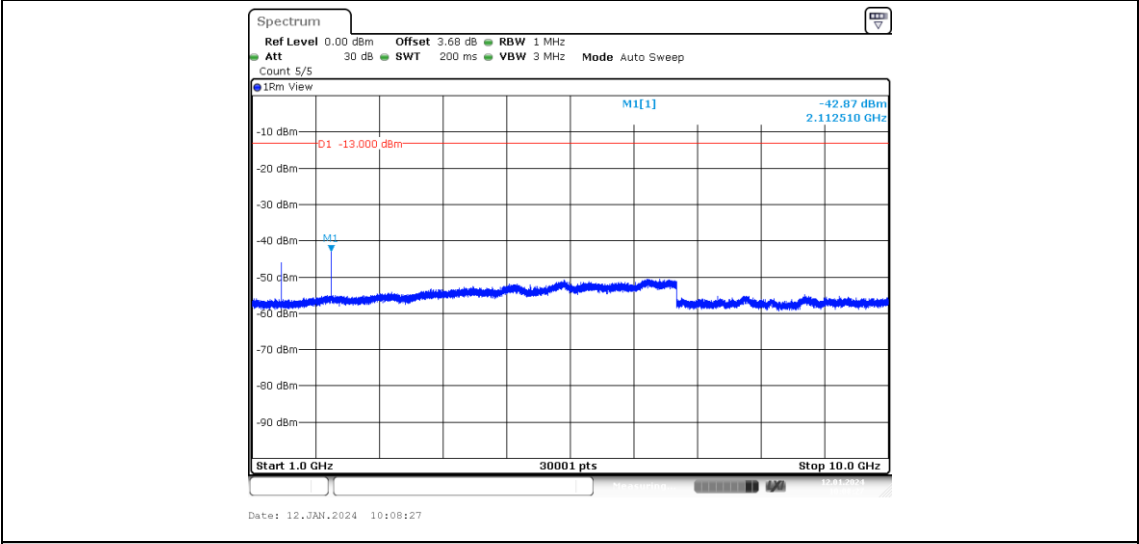
Band17-Stand-Alone-NaN-QPSK-23731-1@0-3.75kHz-0.15-30--77.65--23-PASS



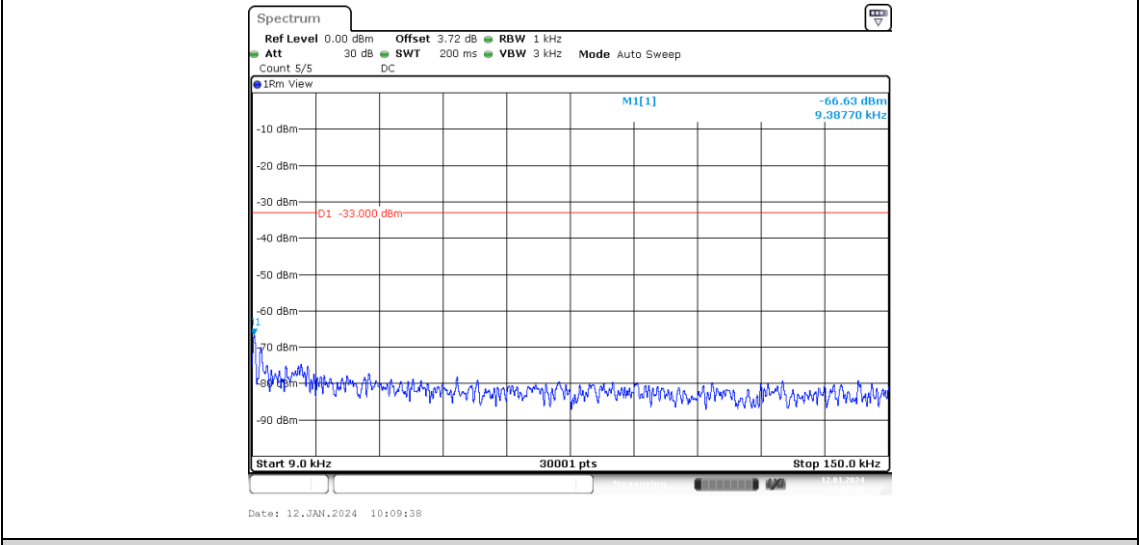




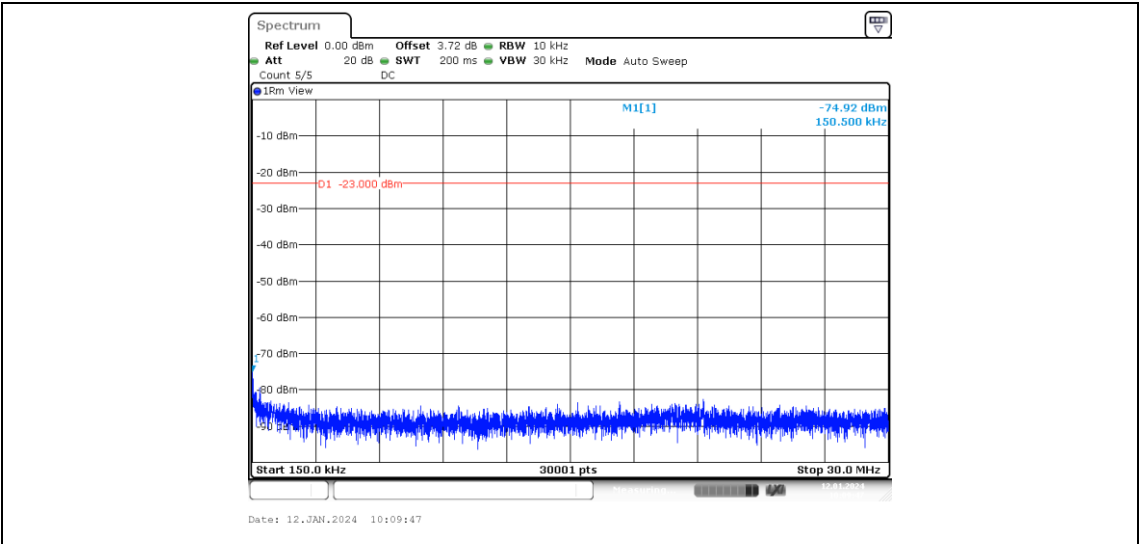
Band17-Stand-Alone-NaN-QPSK-23731-1@47-3.75kHz-30-1000--55.22--13-PASS



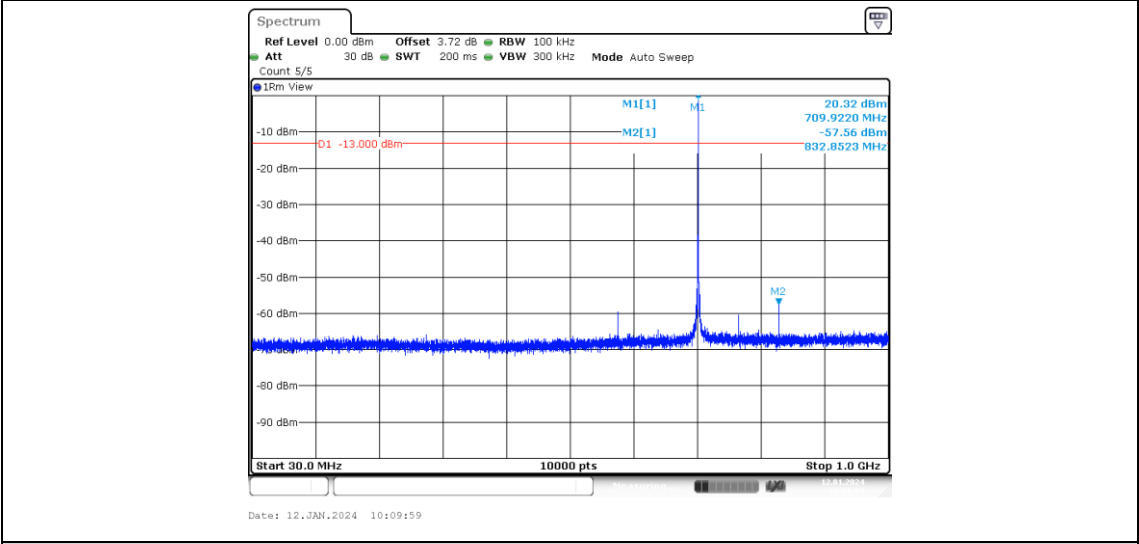
Band17-Stand-Alone-NaN-QPSK-23731-1@47-3.75kHz-1000-10000--42.87--13-PASS



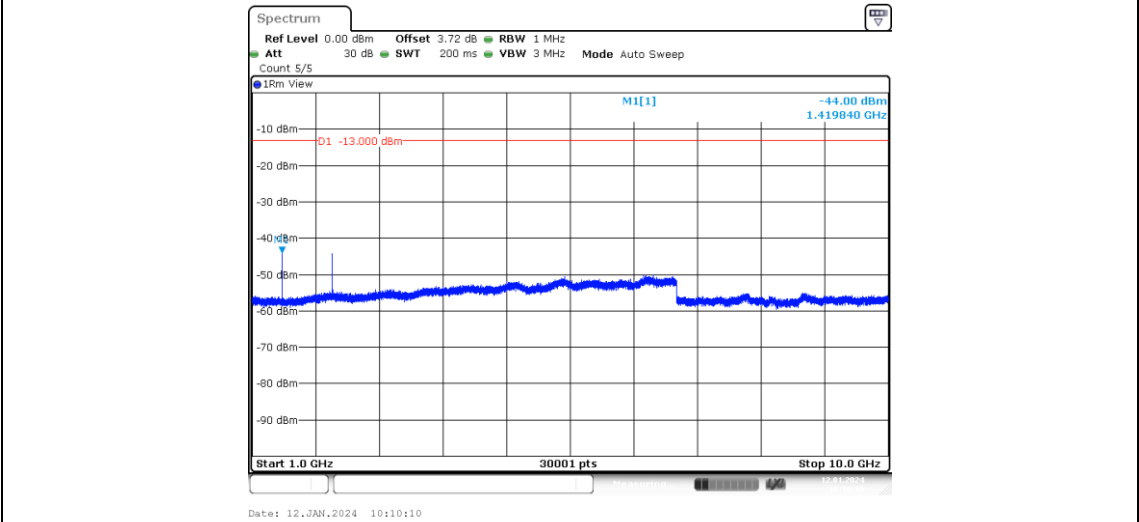
Band17-Stand-Alone-NaN-QPSK-23790-1@0-3.75kHz-0.009-0.15--66.63--33-PASS



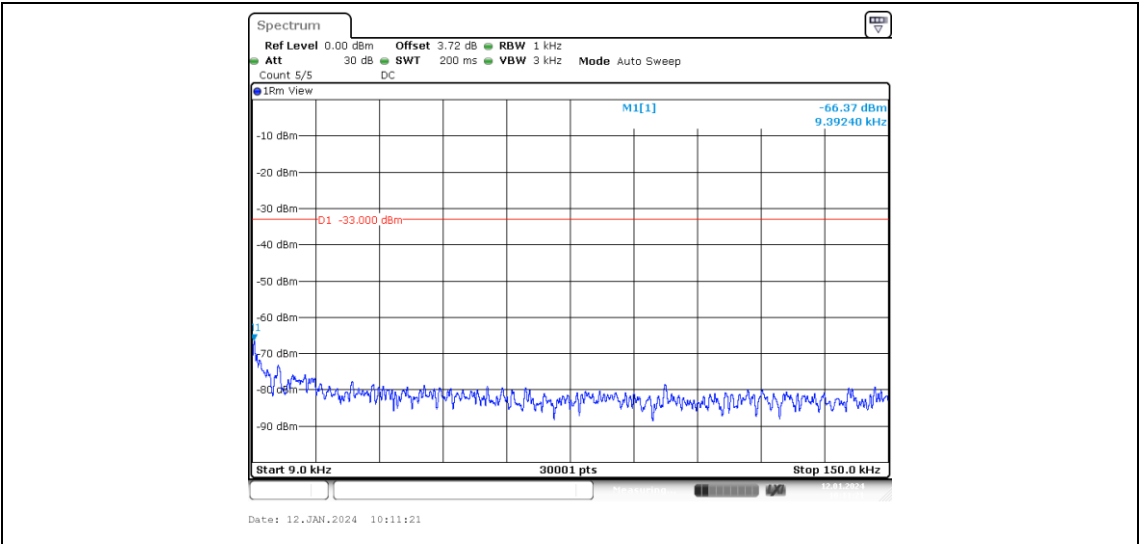
Band17-Stand-Alone-NaN-QPSK-23790-1@0-3.75kHz-0.15-30--74.92--23-PASS



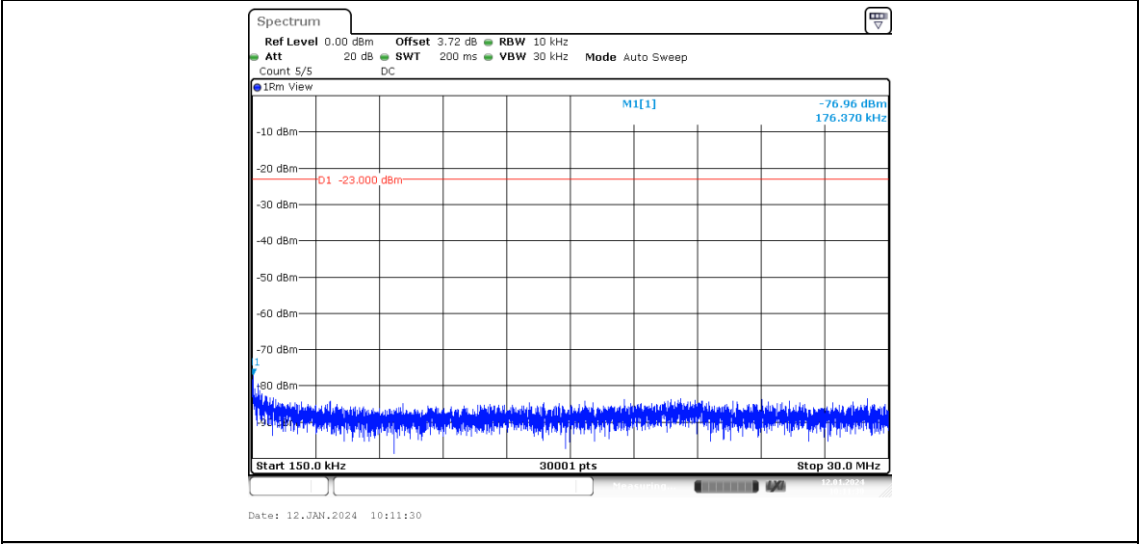
Band17-Stand-Alone-NaN-QPSK-23790-1@0-3.75kHz-30-1000--57.56--13-PASS



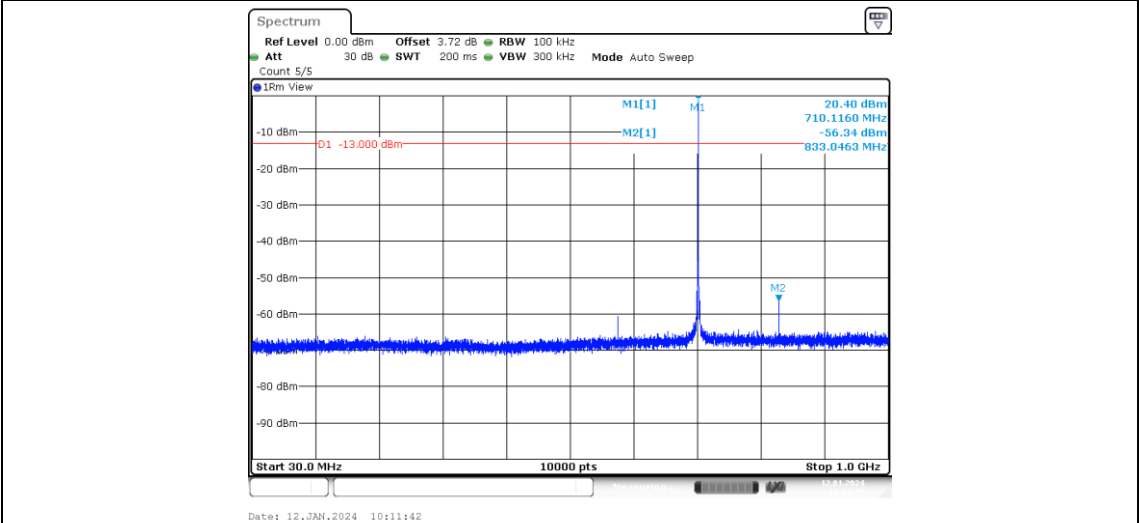
Band17-Stand-Alone-NaN-QPSK-23790-1@0-3.75kHz-1000-10000--44--13-PASS



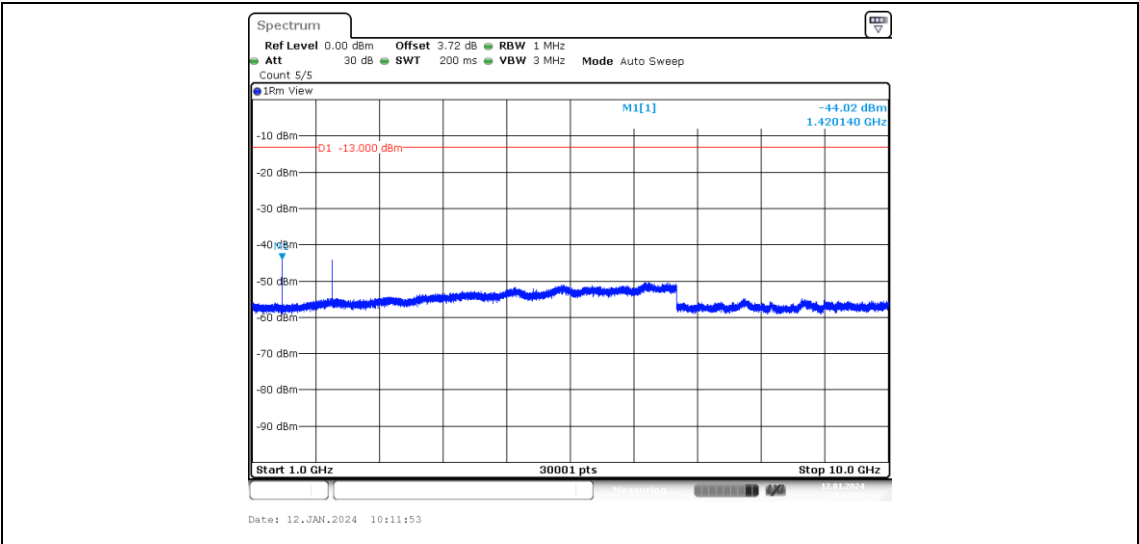
Band17-Stand-Alone-NaN-QPSK-23790-1@47-3.75kHz-0.009-0.15--66.37--33-PASS



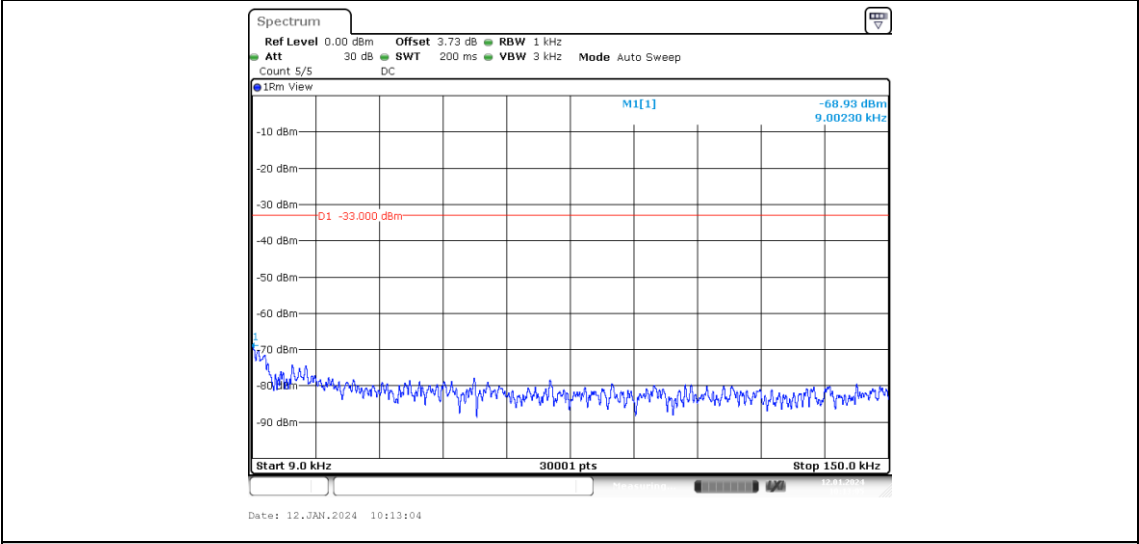
Band17-Stand-Alone-NaN-QPSK-23790-1@47-3.75kHz-0.15-30--76.96--23-PASS



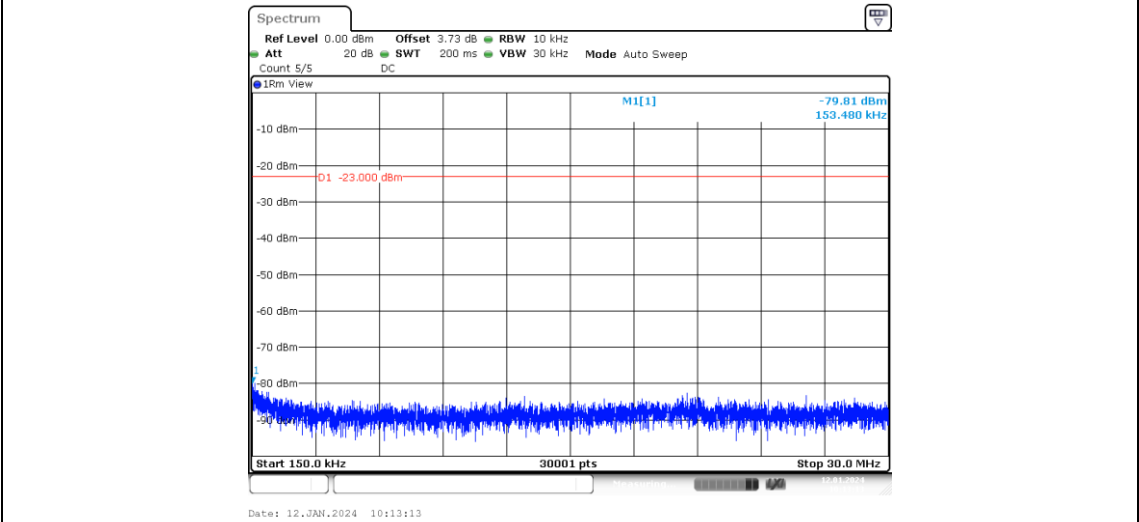
Band17-Stand-Alone-NaN-QPSK-23790-1@47-3.75kHz-30-1000--56.34--13-PASS



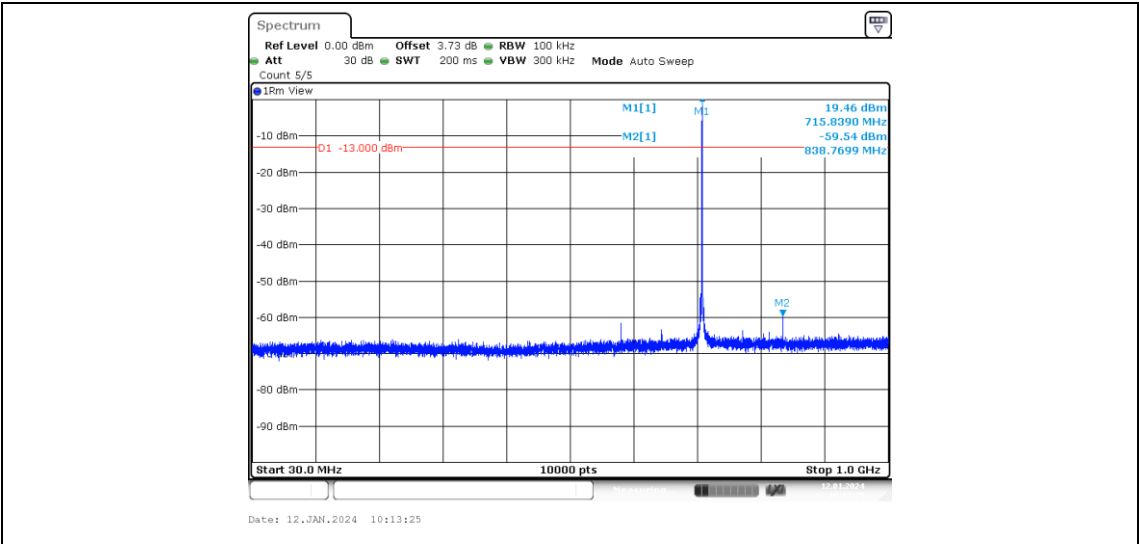
Band17-Stand-Alone-NaN-QPSK-23790-1@47-3.75kHz-1000-10000--44.02--13-PASS



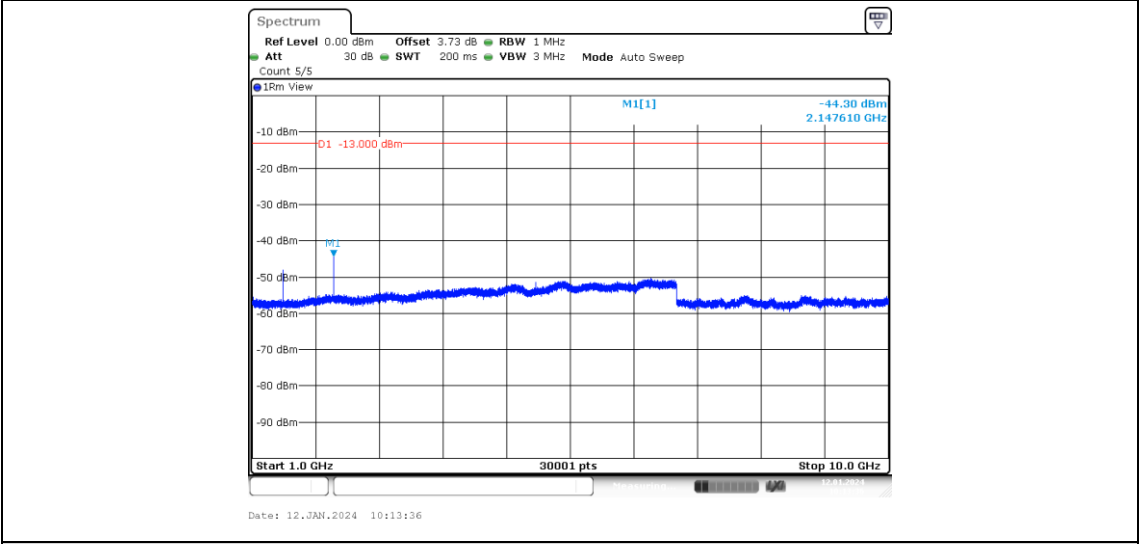
Band17-Stand-Alone-NaN-QPSK-23849-1@0-3.75kHz-0.009-0.15--68.93--33-PASS



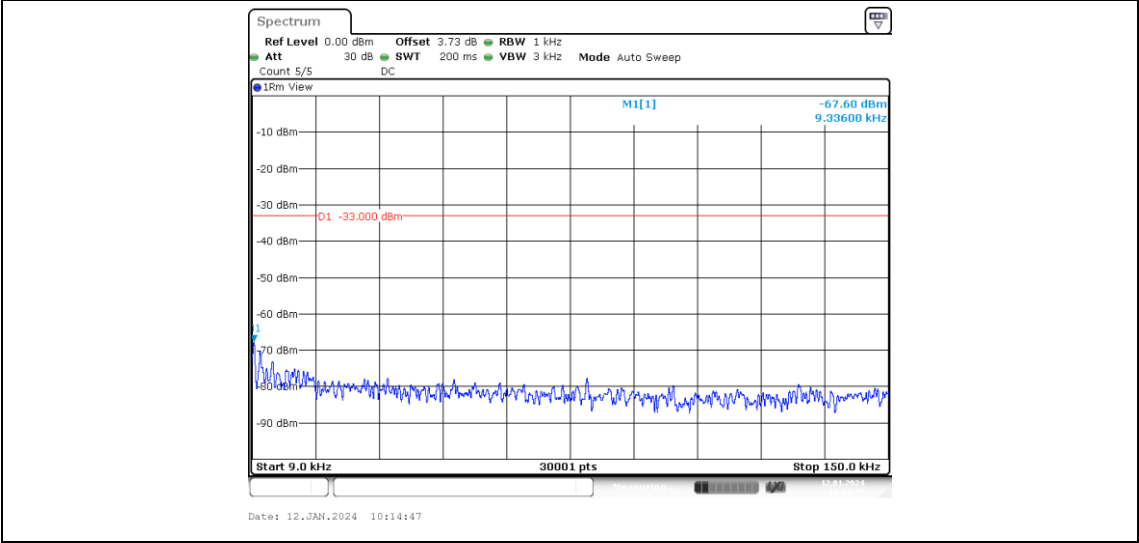
Band17-Stand-Alone-NaN-QPSK-23849-1@0-3.75kHz-0.15-30--79.81--23-PASS



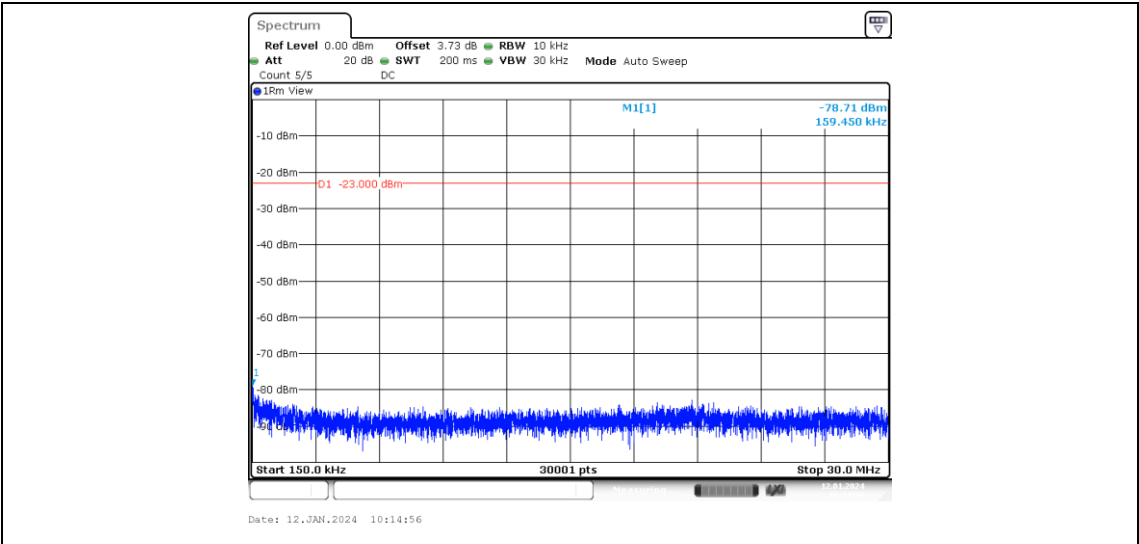
Band17-Stand-Alone-NaN-QPSK-23849-1@0-3.75kHz-30-1000--59.54--13-PASS



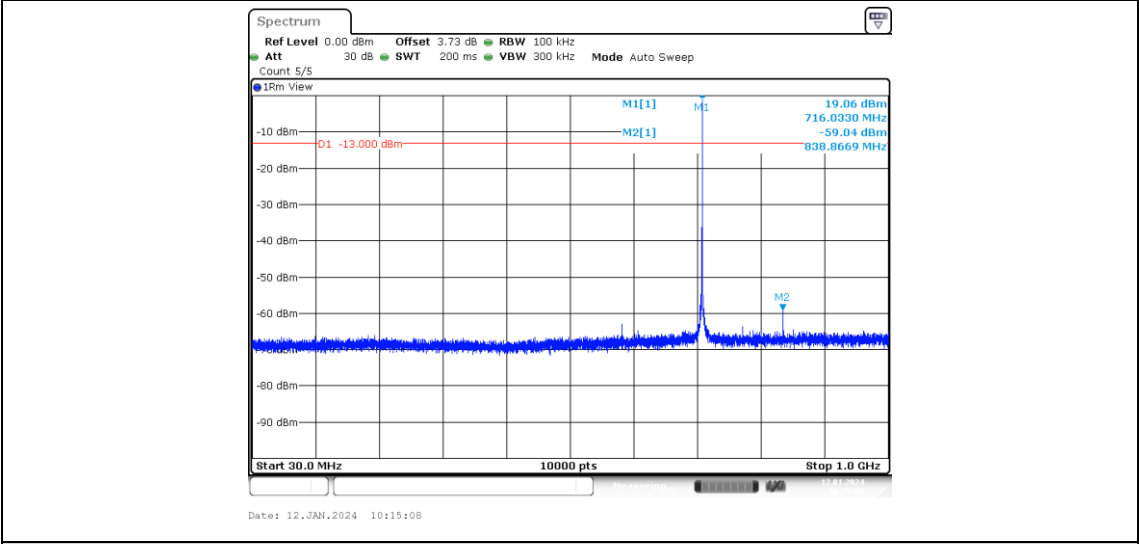
Band17-Stand-Alone-NaN-QPSK-23849-1@0-3.75kHz-1000-10000--44.3--13-PASS



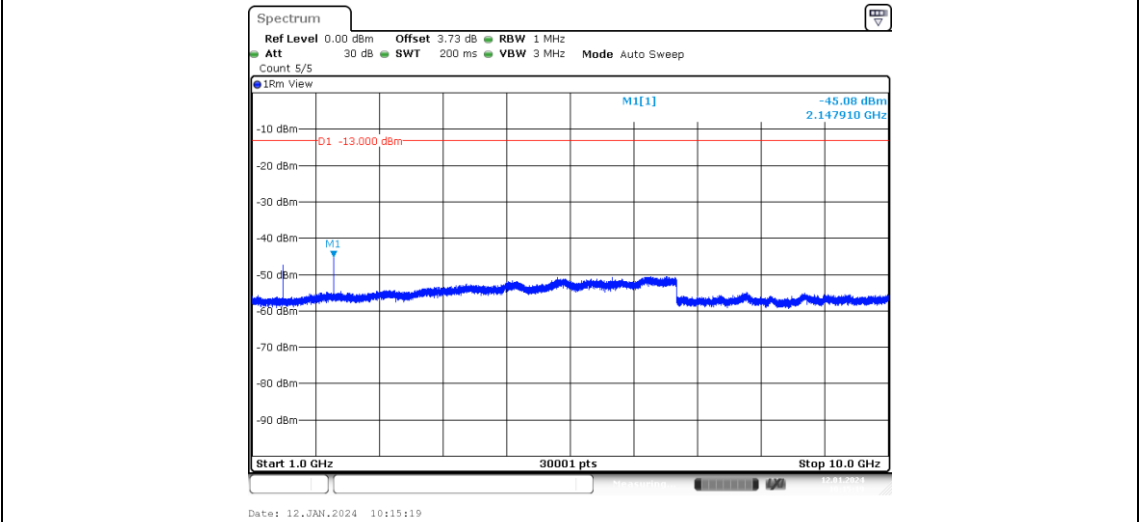
Band17-Stand-Alone-NaN-QPSK-23849-1@47-3.75kHz-0.009-0.15--67.6--33-PASS



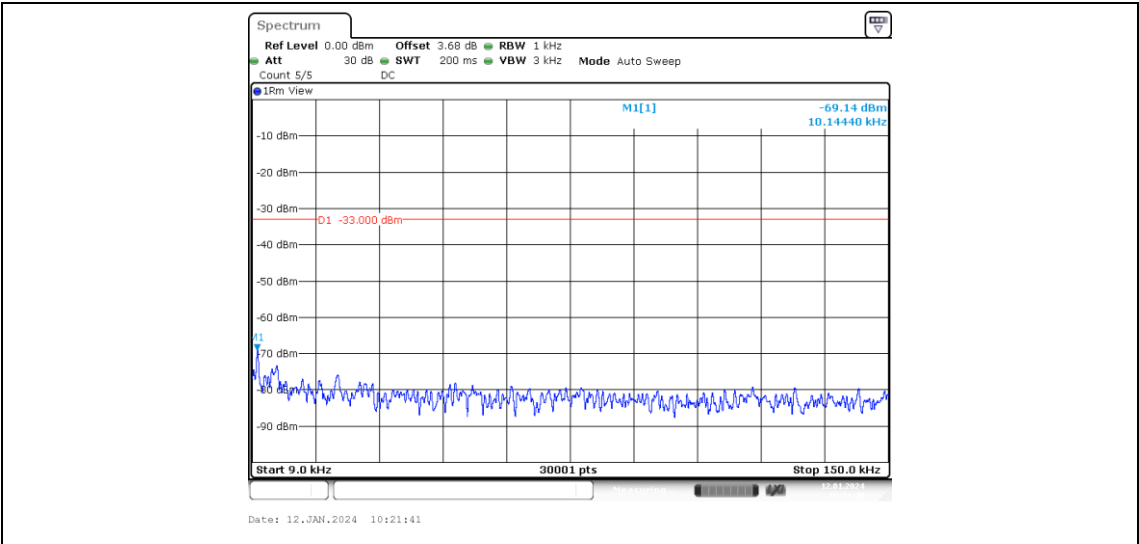
Band17-Stand-Alone-NaN-QPSK-23849-1@47-3.75kHz-0.15-30--78.71--23-PASS



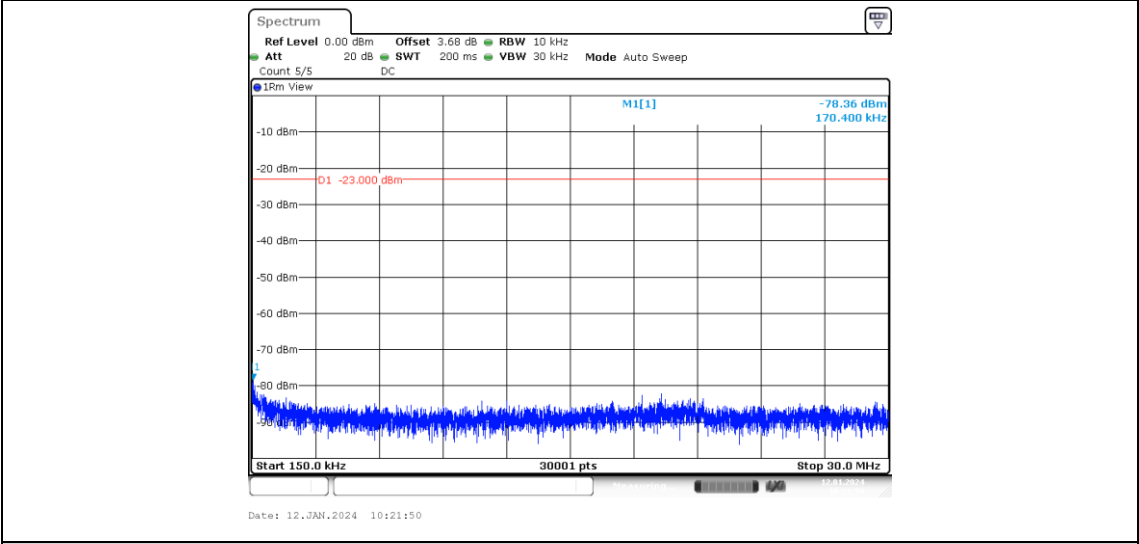
Band17-Stand-Alone-NaN-QPSK-23849-1@47-3.75kHz-30-1000--59.04--13-PASS



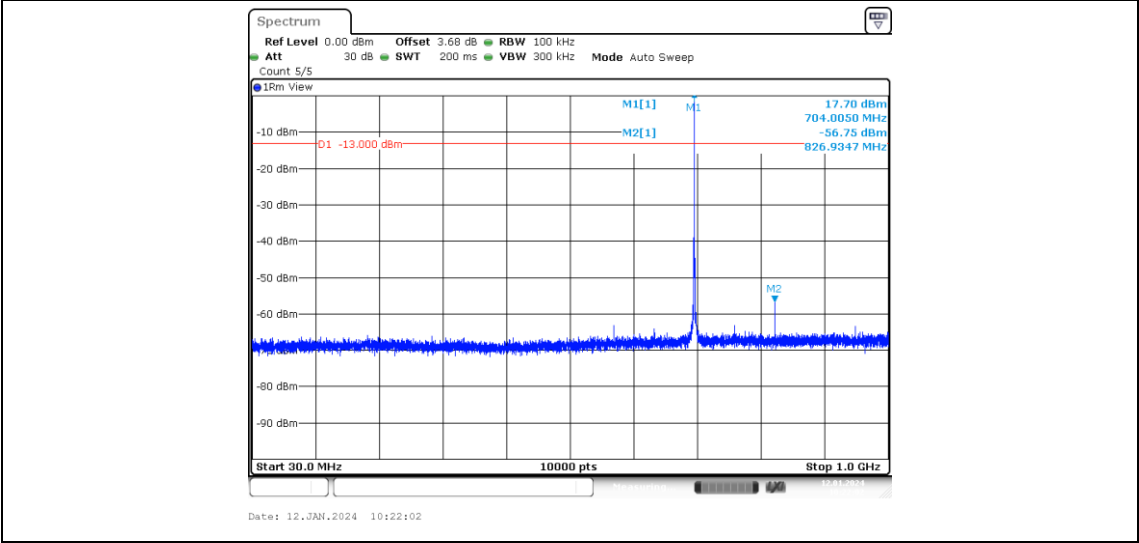
Band17-Stand-Alone-NaN-QPSK-23849-1@47-3.75kHz-1000-10000--45.08--13-PASS



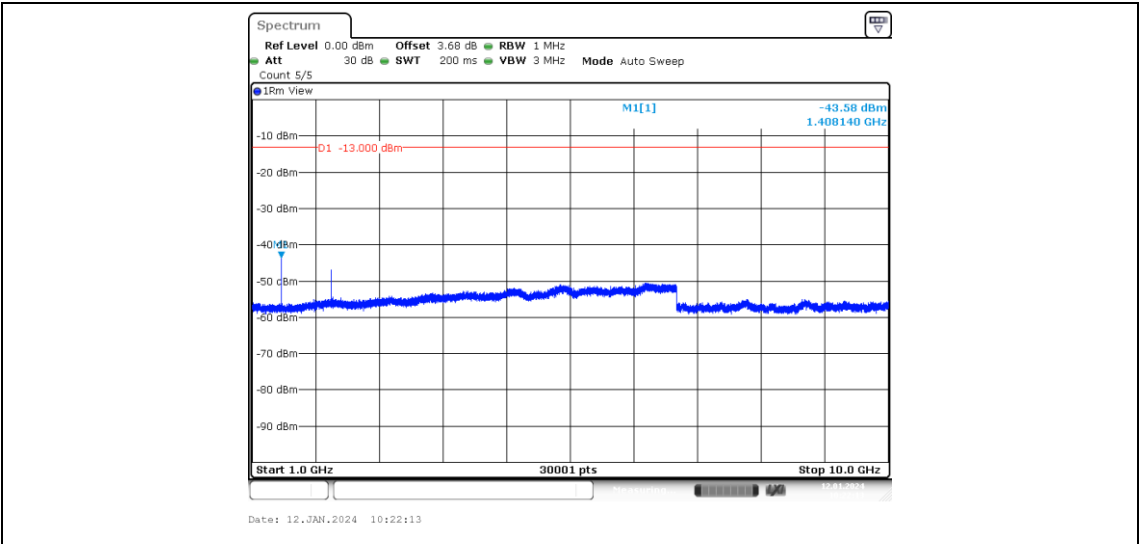
Band17-Stand-Alone-NaN-BPSK-23731-1@0-15kHz-0.009-0.15--69.14--33-PASS



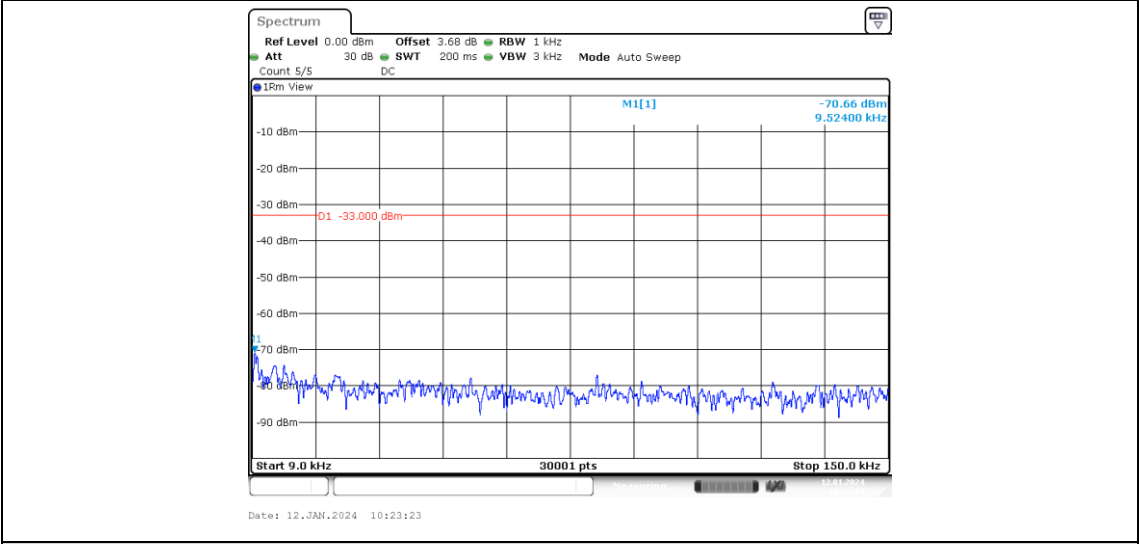
Band17-Stand-Alone-NaN-BPSK-23731-1@0-15kHz-0.15-30--78.36--23-PASS



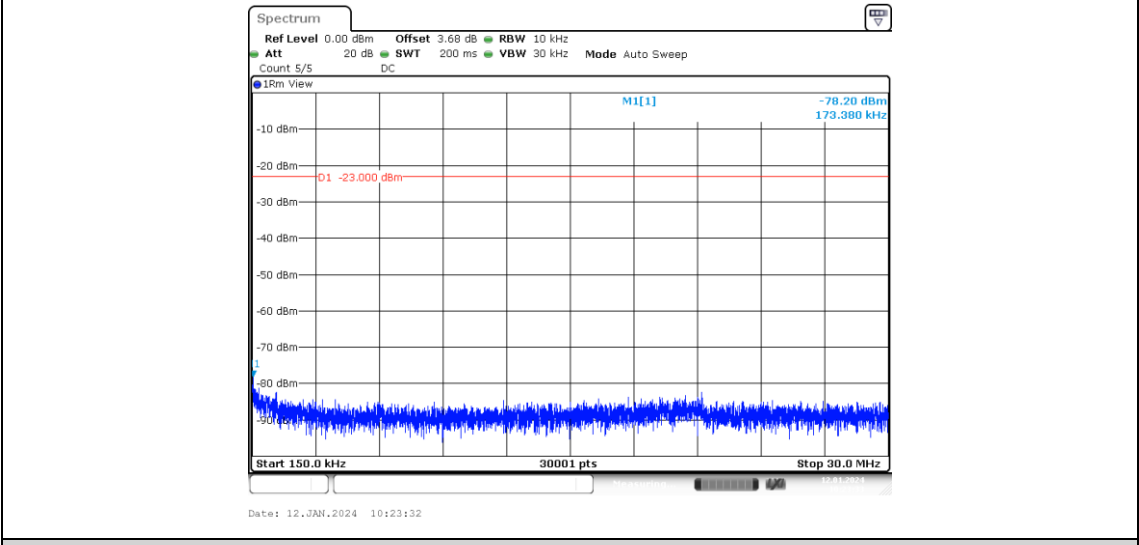
Band17-Stand-Alone-NaN-BPSK-23731-1@0-15kHz-30-1000--56.75--13-PASS



Band17-Stand-Alone-NaN-BPSK-23731-1@0-15kHz-1000-10000--43.58--13-PASS



Band17-Stand-Alone-NaN-BPSK-23731-1@11-15kHz-0.009-0.15--78.20--33-PASS



Band17-Stand-Alone-NaN-BPSK-23731-1@11-15kHz-0.15-30--78.2--23-PASS



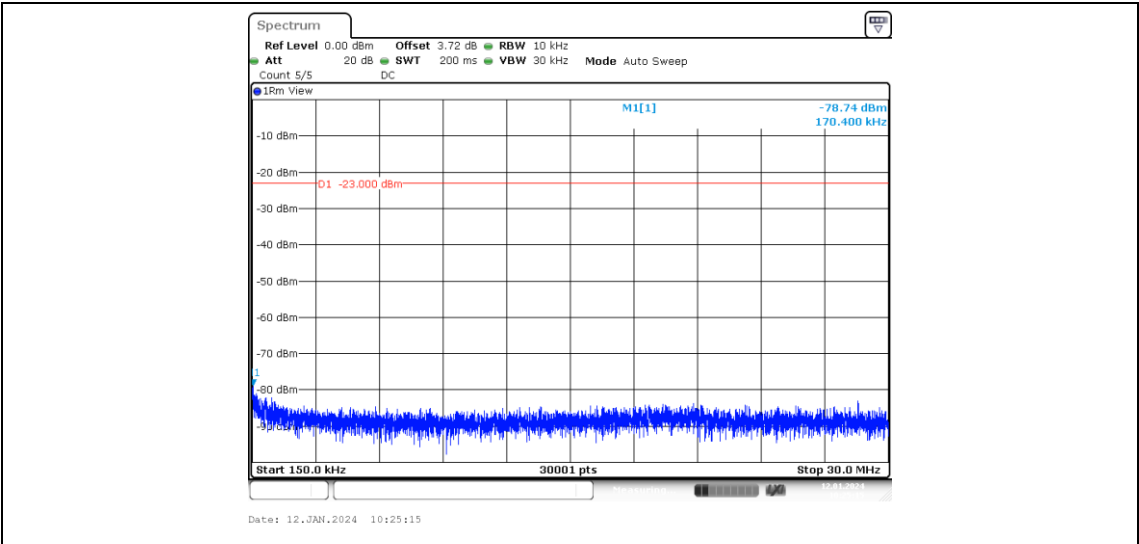
Band17-Stand-Alone-NaN-BPSK-23731-1@11-15kHz-30-1000--57.2--13-PASS



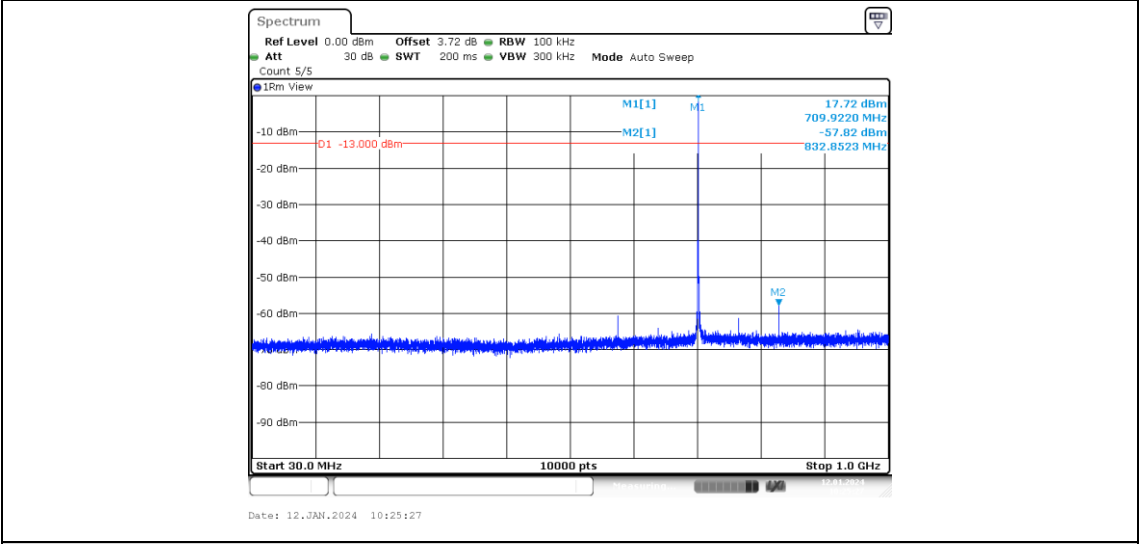
Band17-Stand-Alone-NaN-BPSK-23731-1@11-15kHz-1000-10000--43.64--13-PASS



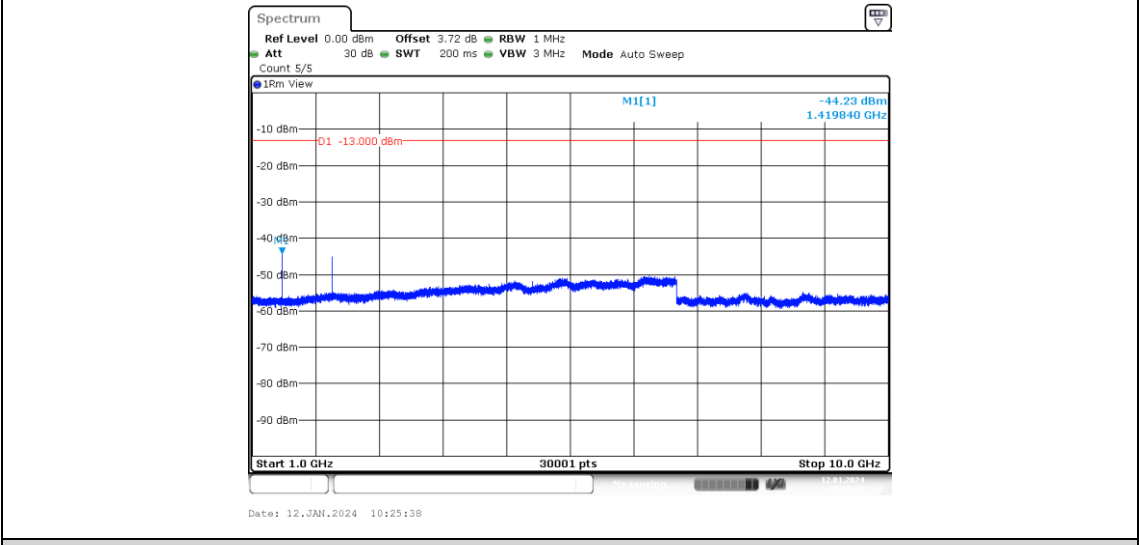
Band17-Stand-Alone-NaN-BPSK-23790-1@0-15kHz-0.009-0.15--71.16--33-PASS



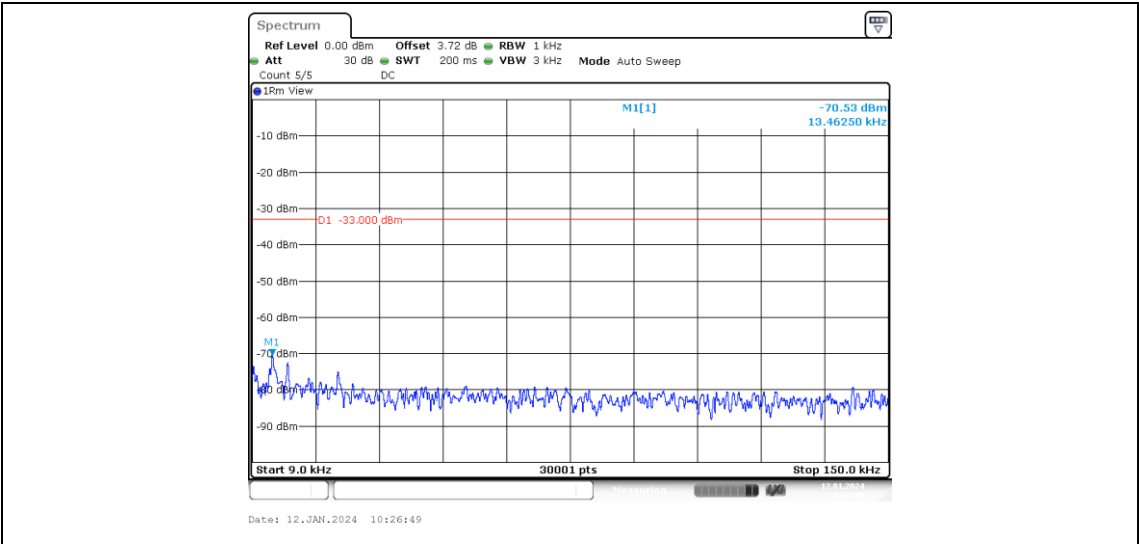
Band17-Stand-Alone-NaN-BPSK-23790-1@0-15kHz-0.15-30--78.74--23-PASS



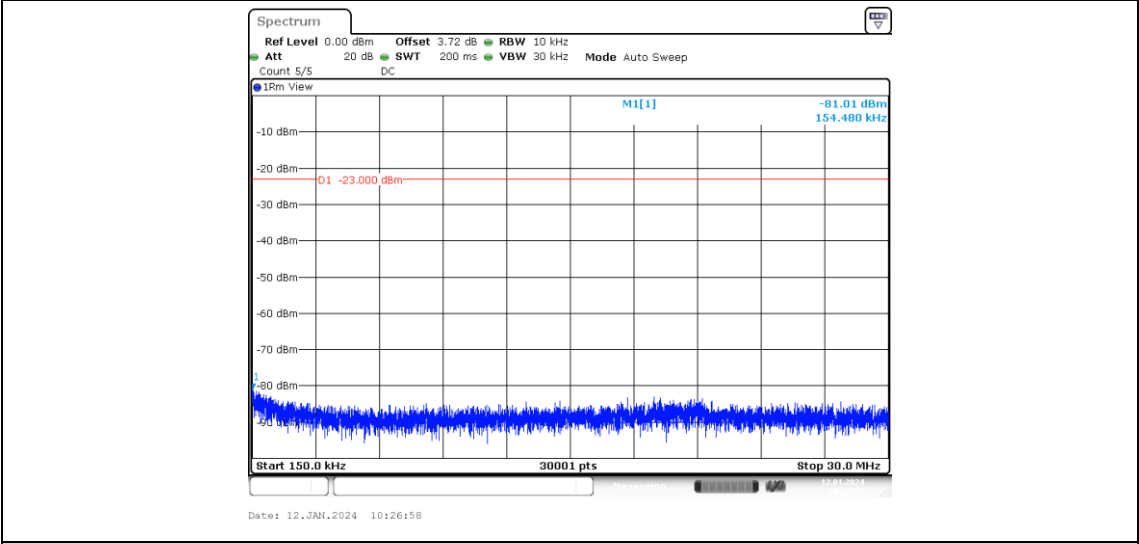
Band17-Stand-Alone-NaN-BPSK-23790-1@0-15kHz-30-1000--57.82--13-PASS



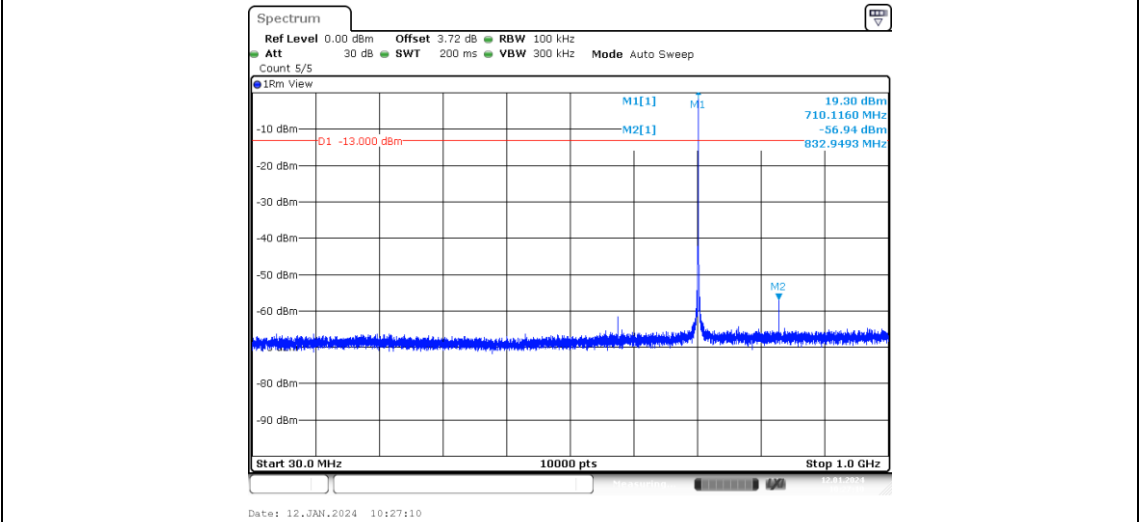
Band17-Stand-Alone-NaN-BPSK-23790-1@0-15kHz-1000-10000--44.23--13-PASS



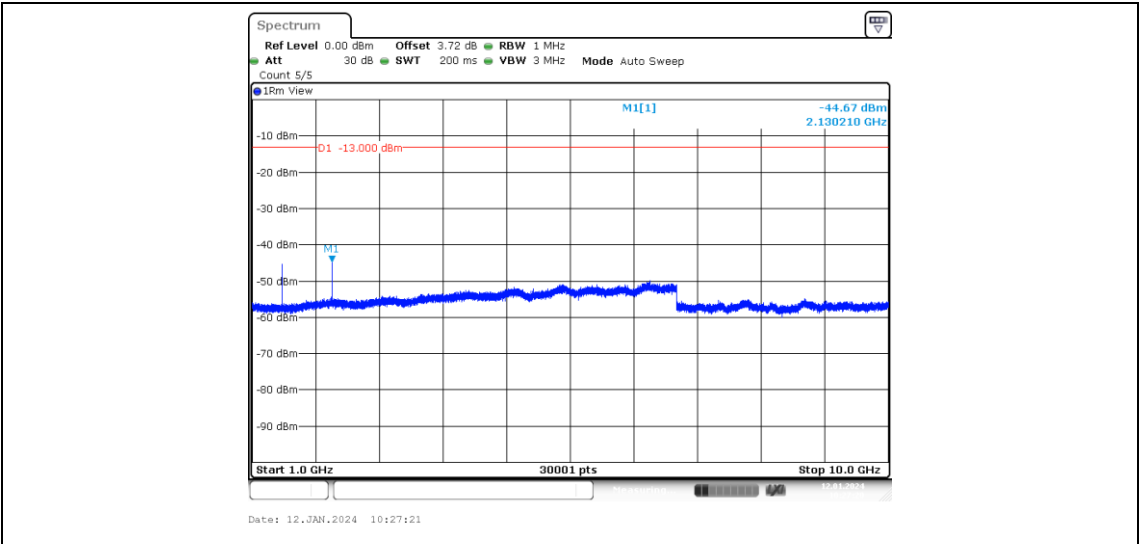
Band17-Stand-Alone-NaN-BPSK-23790-1@11-15kHz-0.009-0.15--70.53--33-PASS



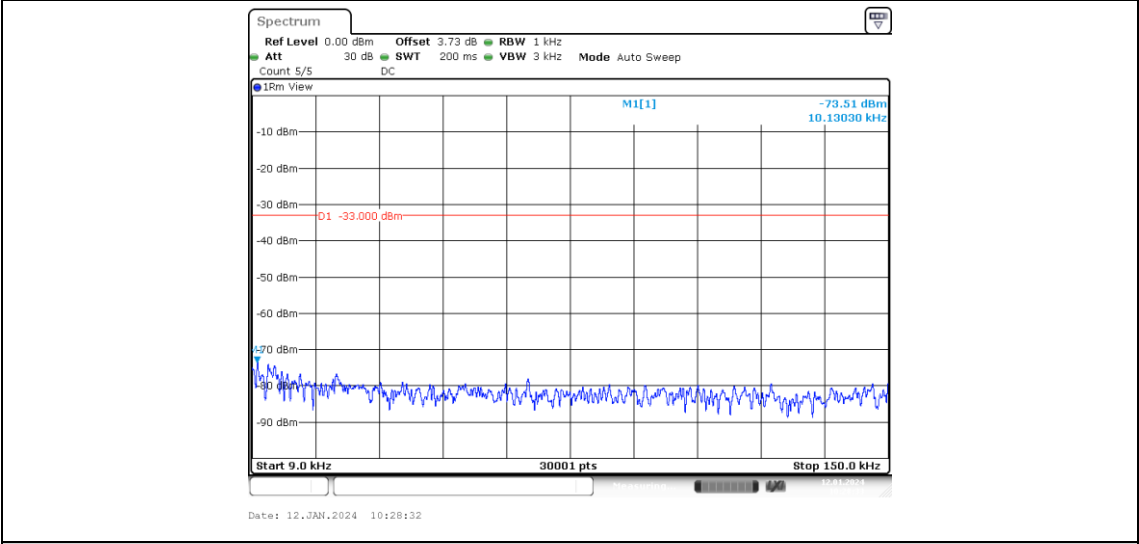
Band17-Stand-Alone-NaN-BPSK-23790-1@11-15kHz-0.15-30--81.01--23-PASS



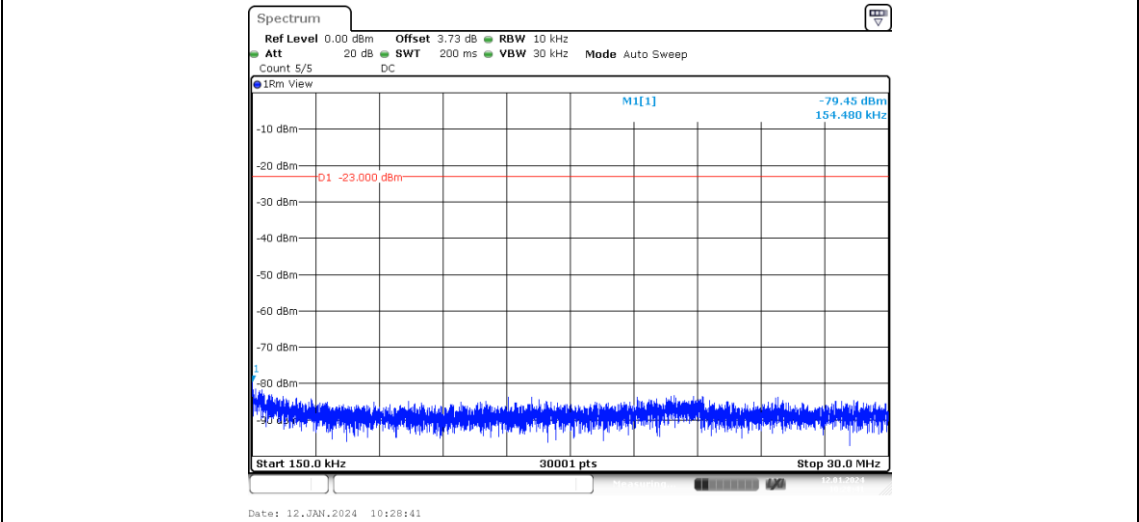
Band17-Stand-Alone-NaN-BPSK-23790-1@11-15kHz-30-1000--56.94--13-PASS



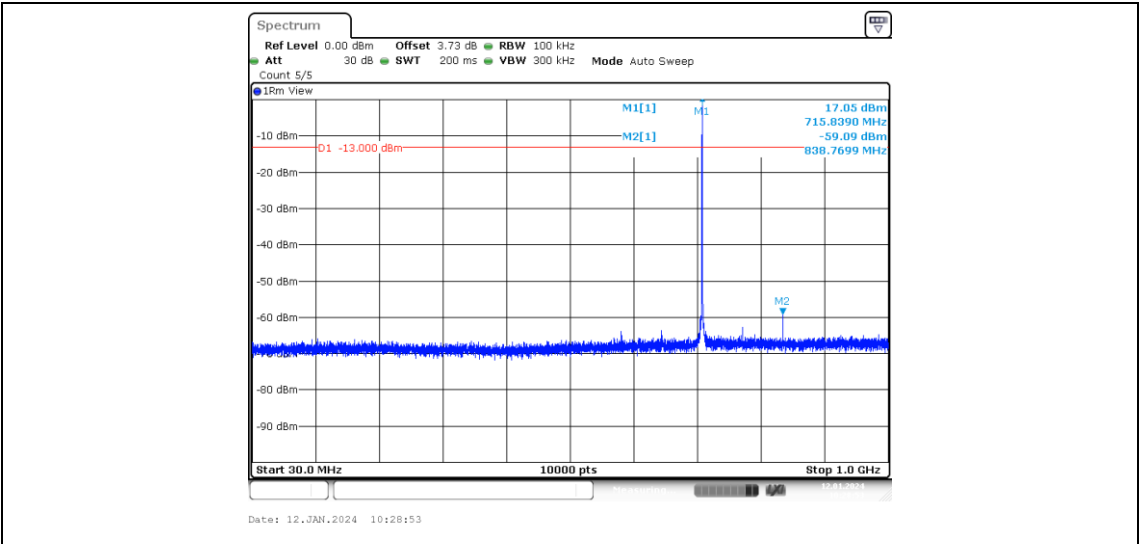
Band17-Stand-Alone-NaN-BPSK-23790-1@11-15kHz-1000-10000--44.67--13-PASS



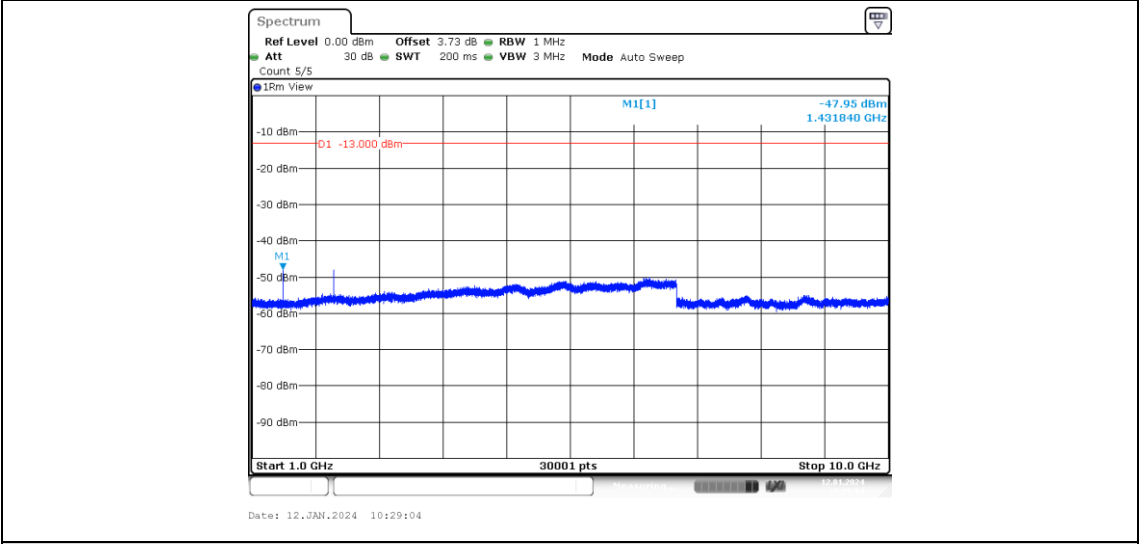
Band17-Stand-Alone-NaN-BPSK-23849-1@0-15kHz-0.009-0.15--73.51--33-PASS



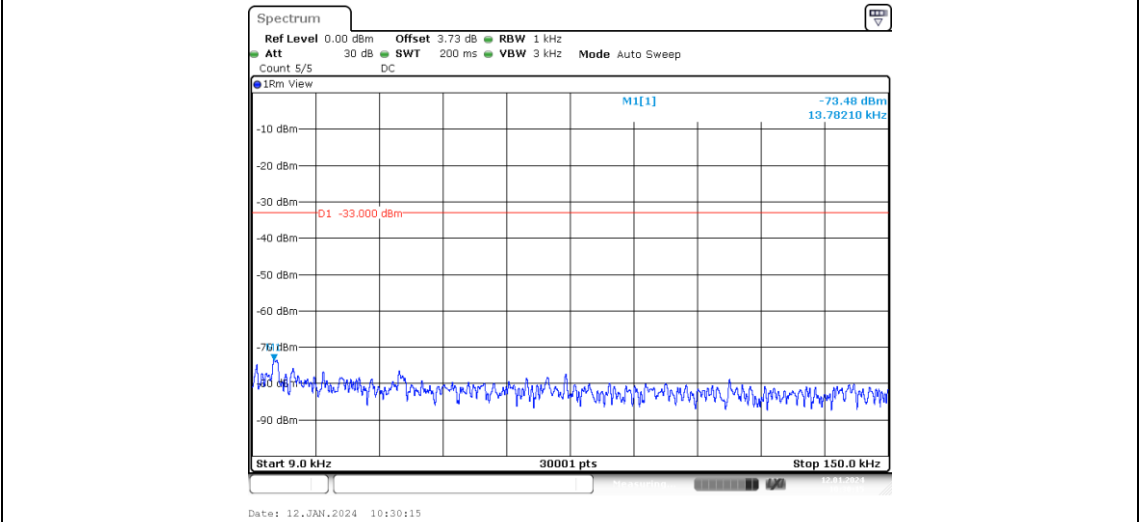
Band17-Stand-Alone-NaN-BPSK-23849-1@0-15kHz-0.15-30--79.45--23-PASS



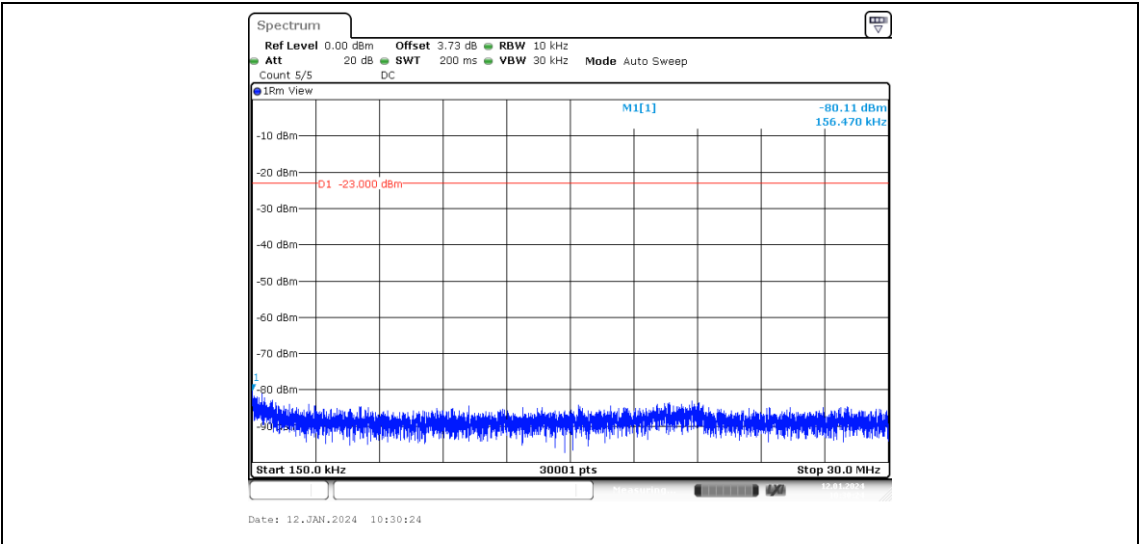
Band17-Stand-Alone-NaN-BPSK-23849-1@0-15kHz-30-1000--59.09--13-PASS



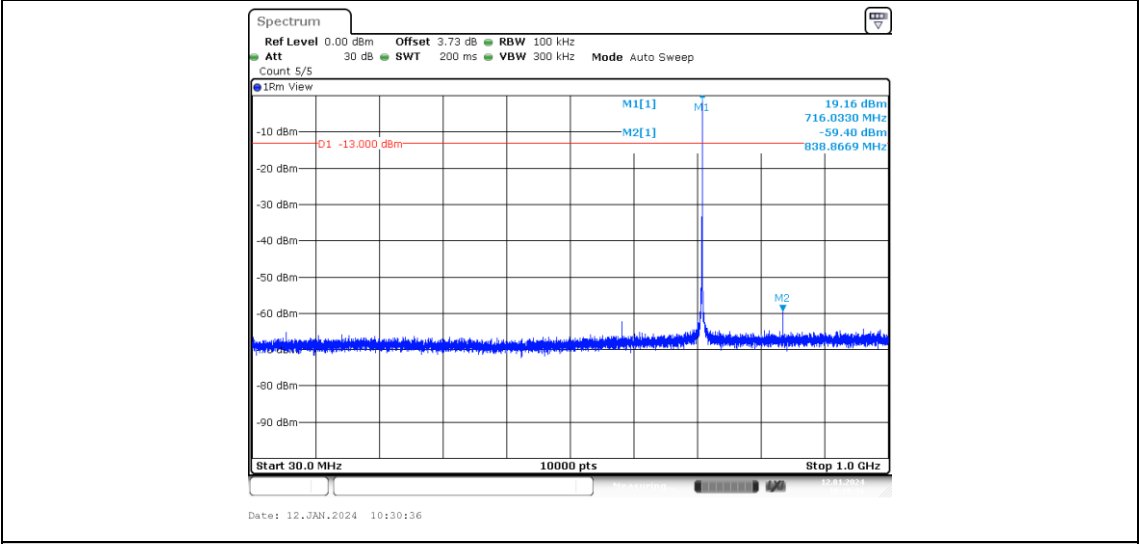
Band17-Stand-Alone-NaN-BPSK-23849-1@0-15kHz-1000-10000--47.95--13-PASS



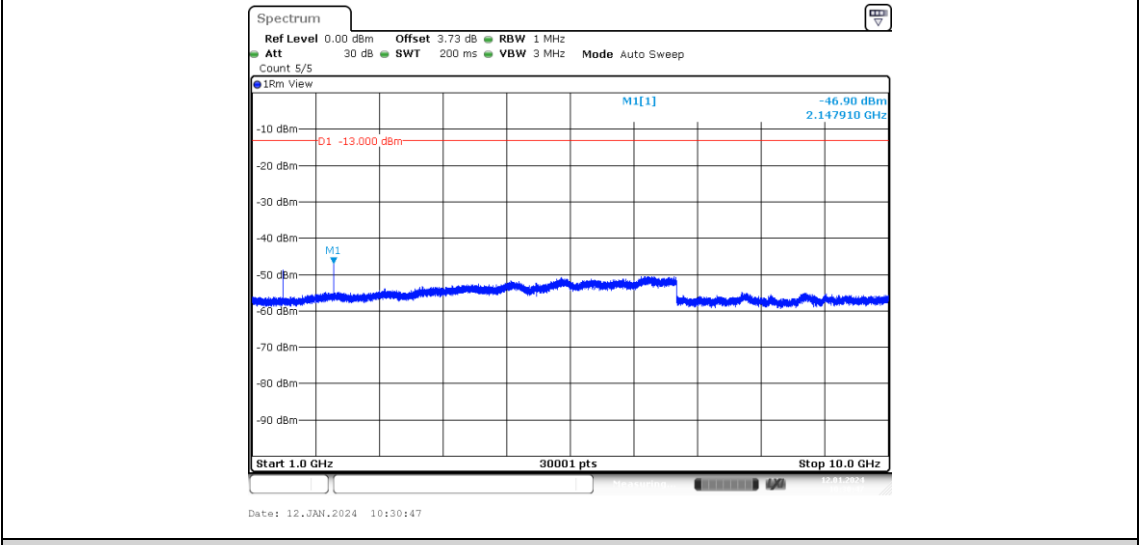
Band17-Stand-Alone-NaN-BPSK-23849-1@11-15kHz-0.009-0.15--73.48--33-PASS



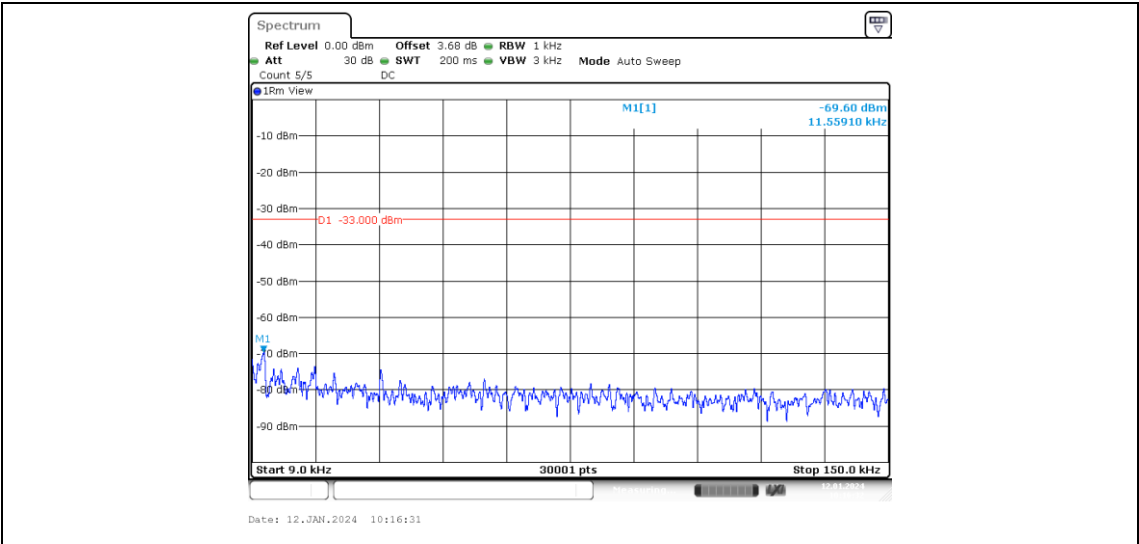
Band17-Stand-Alone-NaN-BPSK-23849-1@11-15kHz-0.15-30--80.11--23-PASS



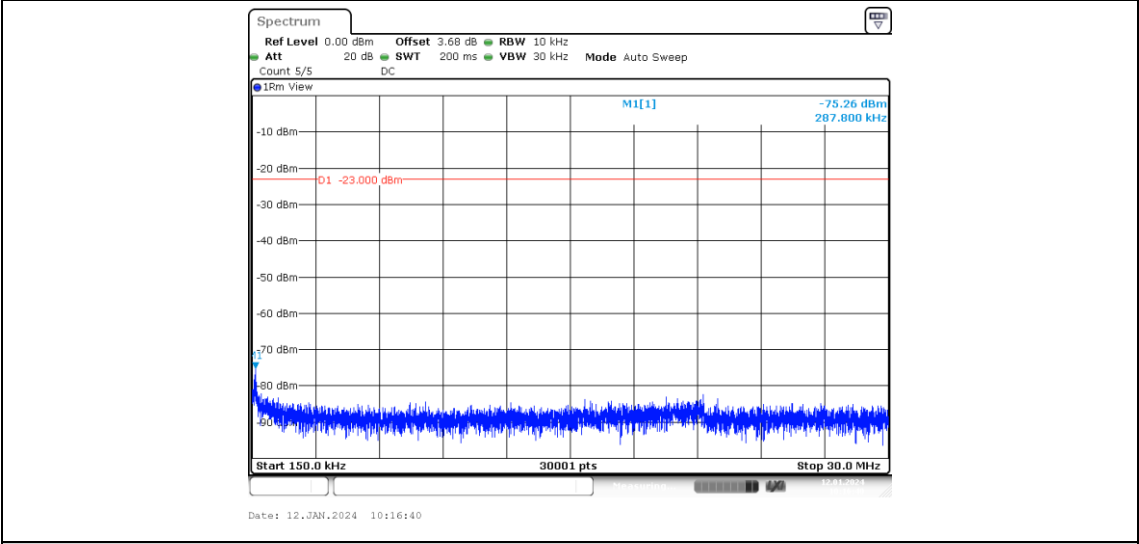
Band17-Stand-Alone-NaN-BPSK-23849-1@11-15kHz-30-1000--59.4--13-PASS



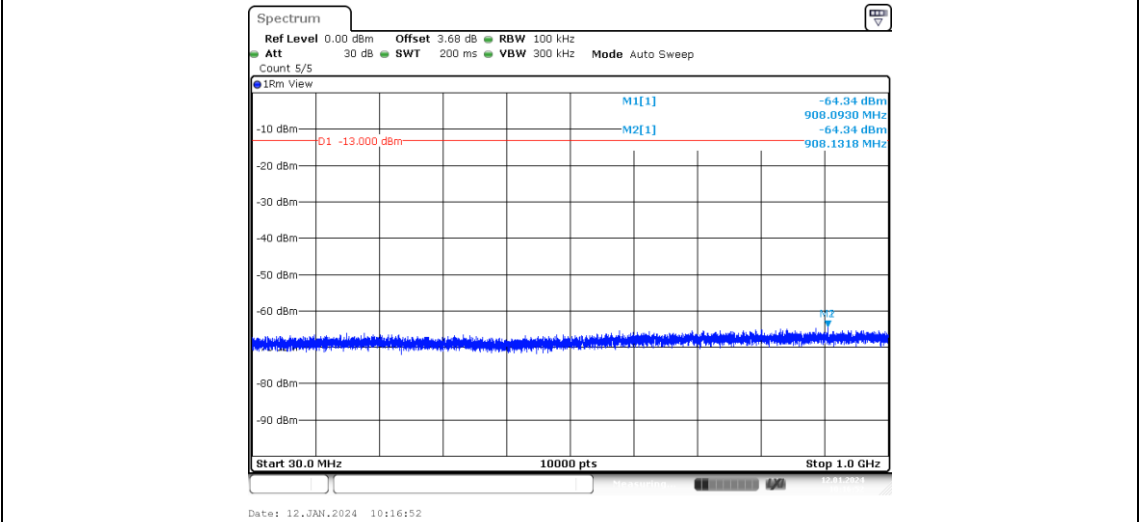
Band17-Stand-Alone-NaN-BPSK-23849-1@11-15kHz-1000-10000--46.9--13-PASS



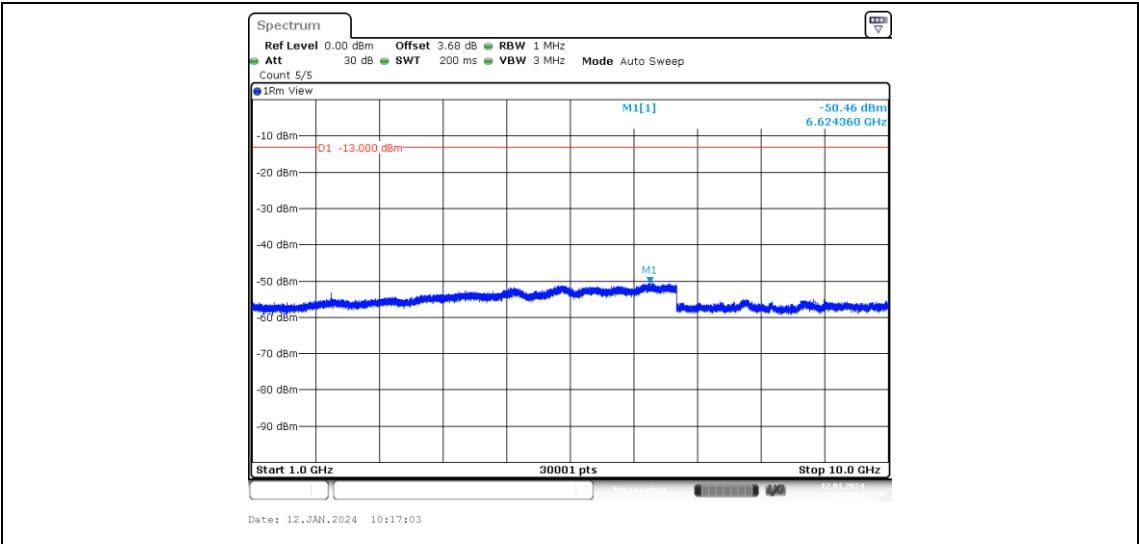
Band17-Stand-Alone-NaN-QPSK-23731-12@0-15kHz-0.009-0.15--69.6--33-PASS



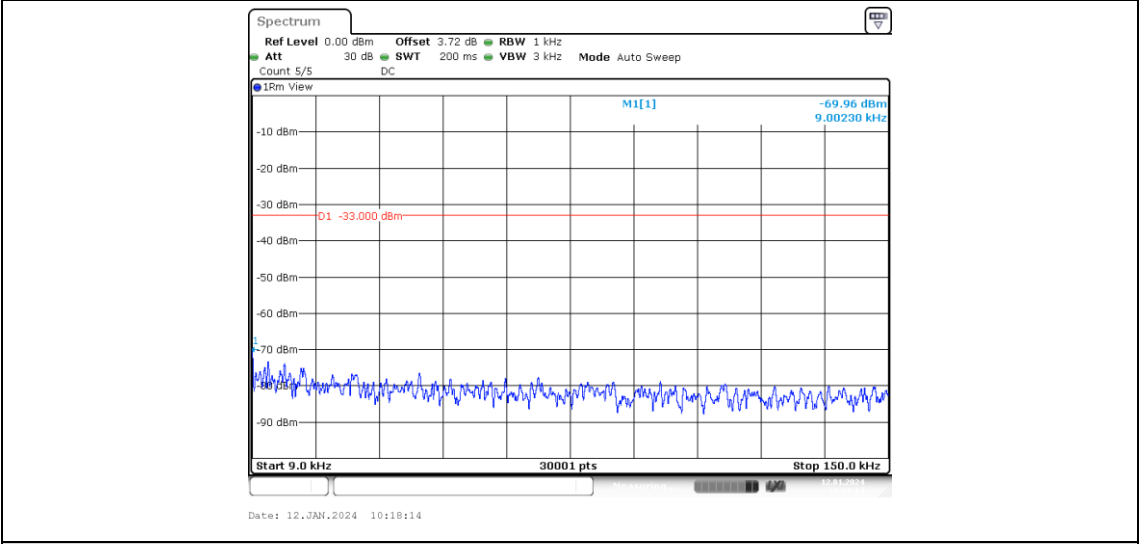
Band17-Stand-Alone-NaN-QPSK-23731-12@0-15kHz-0.15-30--75.26--23-PASS



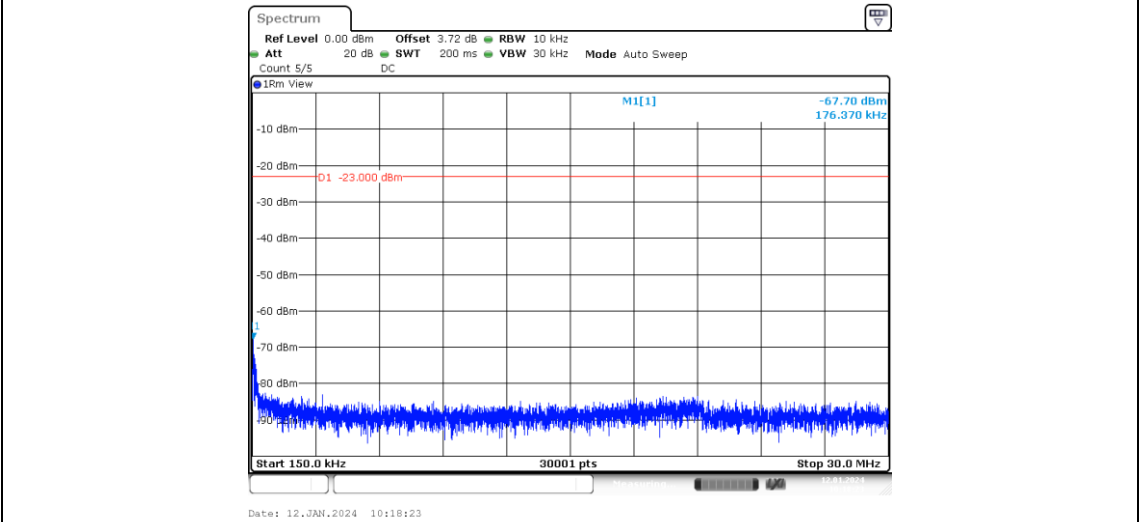
Band17-Stand-Alone-NaN-QPSK-23731-12@0-15kHz-30-1000--64.34--13-PASS



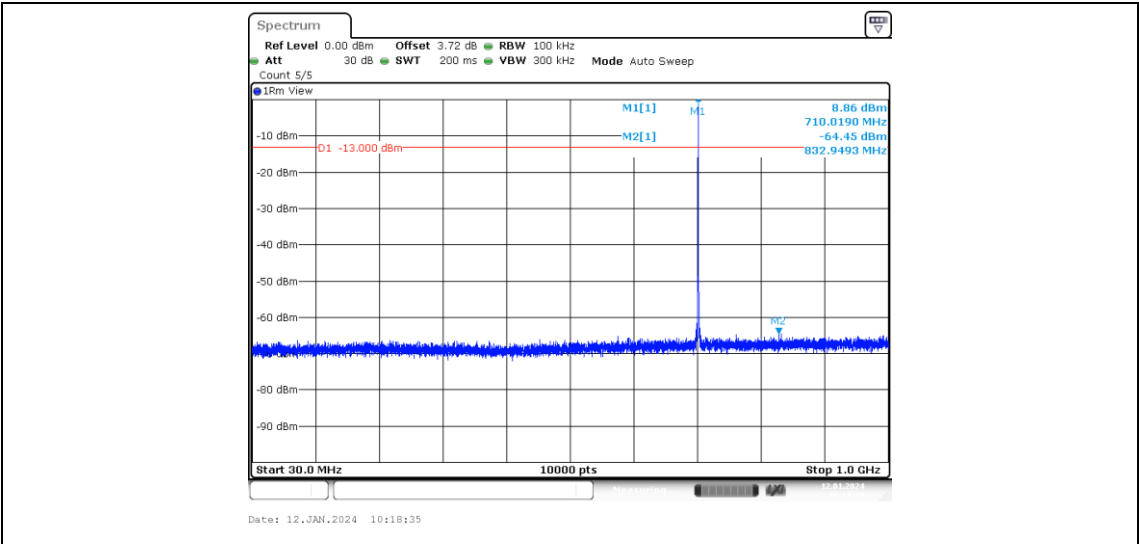
Band17-Stand-Alone-NaN-QPSK-23731-12@0-15kHz-1000-10000--50.46--13-PASS



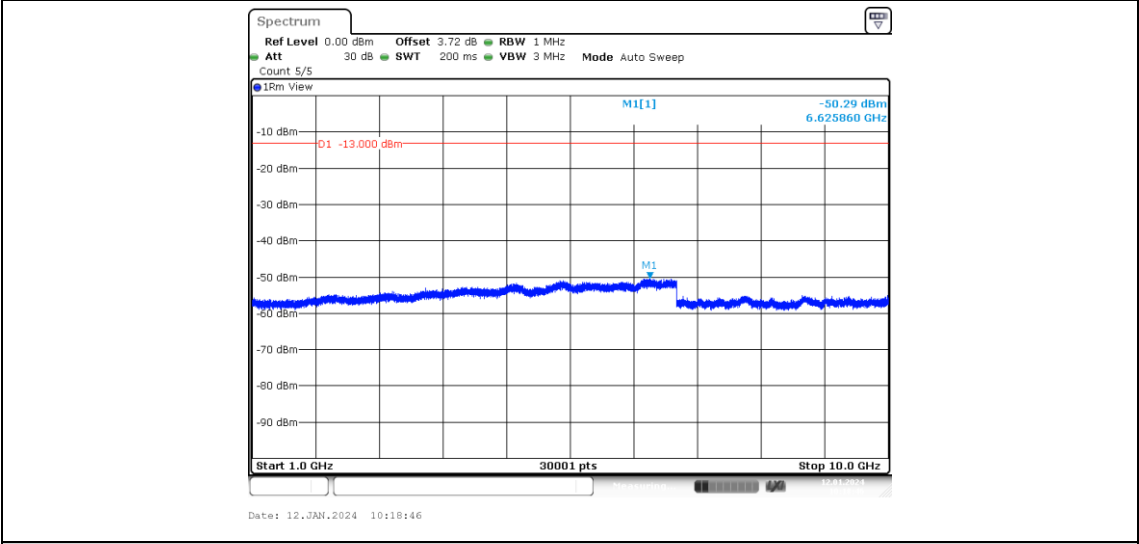
Band17-Stand-Alone-NaN-QPSK-23790-12@0-15kHz-0.009-0.15--69.96--33-PASS



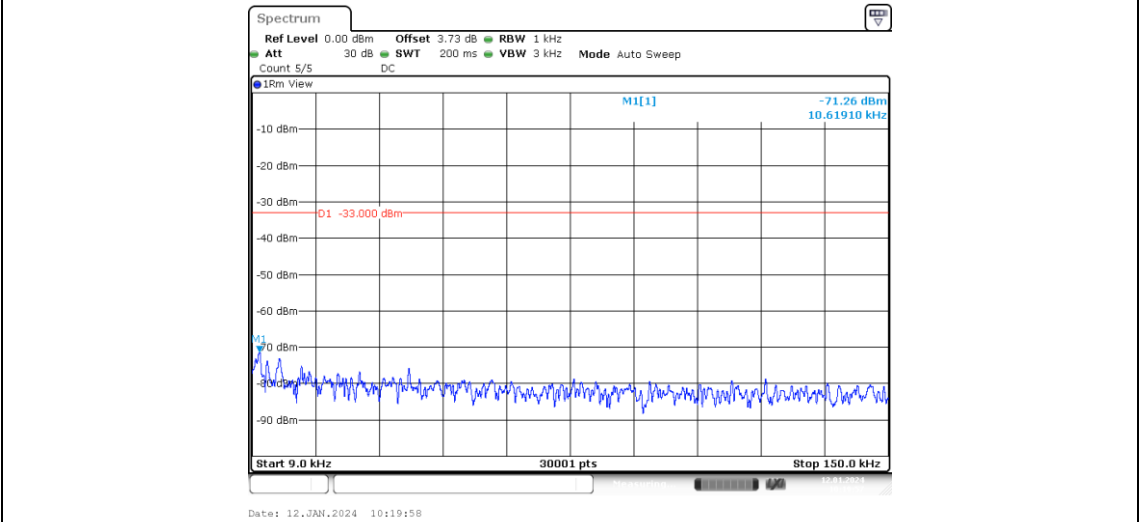
Band17-Stand-Alone-NaN-QPSK-23790-12@0-15kHz-0.15-30--67.7--23-PASS



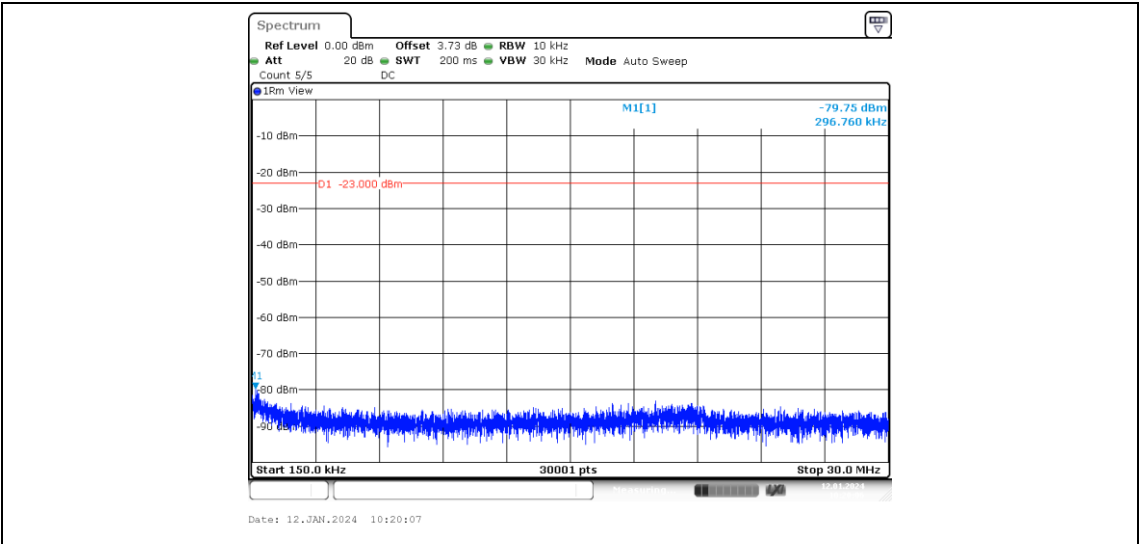
Band17-Stand-Alone-NaN-QPSK-23790-12@0-15kHz-30-1000--64.45--13-PASS



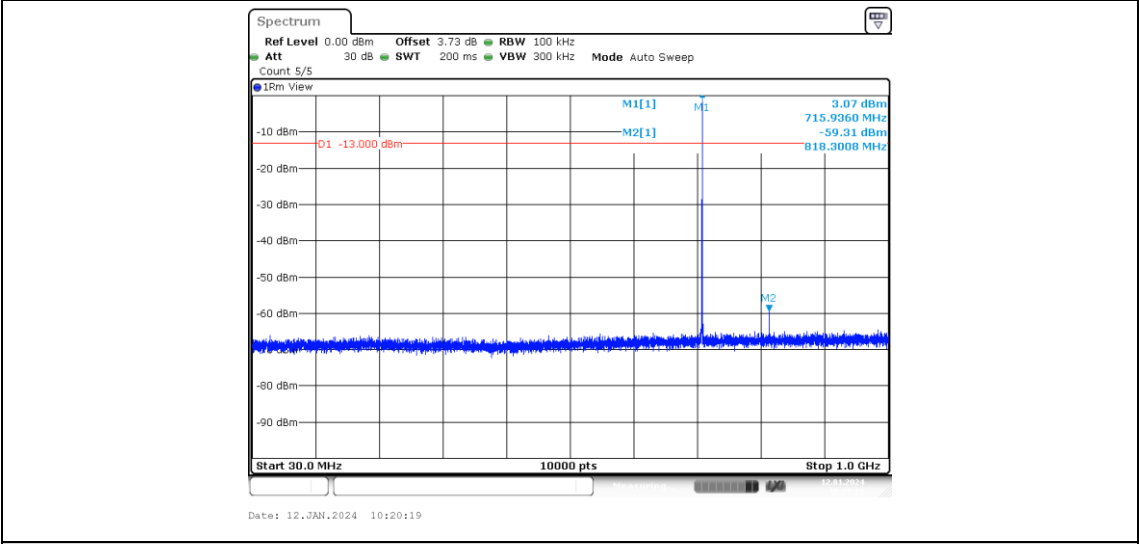
Band17-Stand-Alone-NaN-QPSK-23790-12@0-15kHz-1000-10000--50.29--13-PASS



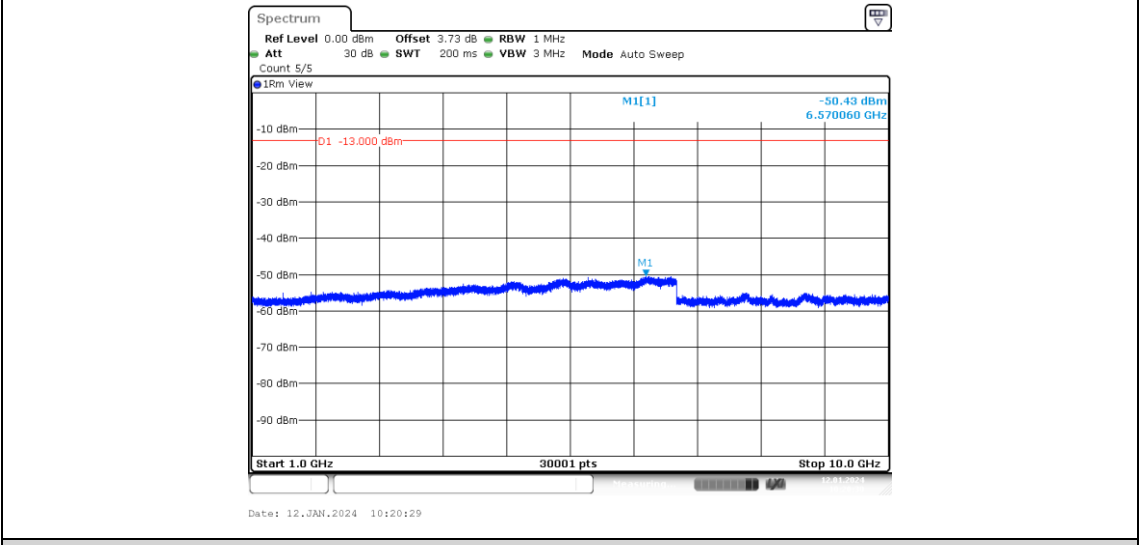
Band17-Stand-Alone-NaN-QPSK-23849-12@0-15kHz-0.009-0.15--71.26--33-PASS



Band17-Stand-Alone-NaN-QPSK-23849-12@0-15kHz-0.15-30--79.75--23-PASS



Band17-Stand-Alone-NaN-QPSK-23849-12@0-15kHz-30-1000--59.31--13-PASS



Band17-Stand-Alone-NaN-QPSK-23849-12@0-15kHz-1000-10000--50.43--13-PASS

Appendix F: Frequency Stability for NB1

Test Result

Voltage												
Band	OpMod e	SCS	Band width	Modul ation	Cha nnel	To ne s	Volt age [Vd c]	Tempe rature (°C)	Devi ation (Hz)	Devi ation (ppm)	Li mit (pp m)	Ver dict
Ban d17	Stand- Alone	3.75 kHz	NaN	QPS K	237 90	1 @ 0	VH	NT	10.3 3	0.014 549	±2. 5	PA SS
Ban d17	Stand- Alone	3.75 kHz	NaN	QPS K	237 90	1 @ 0	VL	NT	-8.60	-0.01 2113	±2. 5	PA SS
Ban d17	Stand- Alone	3.75 kHz	NaN	QPS K	237 90	1 @ 0	VN	NT	8.93	0.012 577	±2. 5	PA SS
Ban d17	Stand- Alone	3.75 kHz	NaN	QPS K	237 90	1 @ 47	VH	NT	10.5 1	0.014 803	±2. 5	PA SS
Ban d17	Stand- Alone	3.75 kHz	NaN	QPS K	237 90	1 @ 47	VL	NT	14.2 3	0.020 042	±2. 5	PA SS
Ban d17	Stand- Alone	3.75 kHz	NaN	QPS K	237 90	1 @ 47	VN	NT	9.63	0.013 563	±2. 5	PA SS
Ban d17	Stand- Alone	15k Hz	NaN	QPS K	237 90	1 @ 0	VH	NT	-9.63	-0.01 3563	±2. 5	PA SS
Ban d17	Stand- Alone	15k Hz	NaN	QPS K	237 90	1 @ 0	VL	NT	10.9 9	0.015 479	±2. 5	PA SS
Ban d17	Stand- Alone	15k Hz	NaN	QPS K	237 90	1 @ 0	VN	NT	-9.88	-0.01 3915	±2. 5	PA SS
Ban d17	Stand- Alone	15k Hz	NaN	QPS K	237 90	1 @1 1	VH	NT	-18.9 7	-0.02 6718	±2. 5	PA SS
Ban d17	Stand- Alone	15k Hz	NaN	QPS K	237 90	1 @1 1	VL	NT	14.4 9	0.020 408	±2. 5	PA SS
Ban	Stand-	15k	NaN	QPS	237	1	VN	NT	-16.0	-0.02	±2.	PA

d17	Alone	Hz		K	90	@1 1			5	2606	5	SS
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Temperature												
Band	OpMod e	Band width	Modul ation	Cha nnel	To ne s	SC S	Volt age [Vd c]	Tempe rature (°C)	Devi ation (Hz)	Devia tion (ppm)	Li mit (pp m)	Ver dict
Ban d17	Stand- Alone	3.75 kHz	NaN	QP SK	23 79 0	1 @ 0	NV	50	-10.8 0	-0.01 5211	±2. 5	PA SS
Ban d17	Stand- Alone	3.75 kHz	NaN	QP SK	23 79 0	1 @ 0	NV	-20	11.8 7	0.016 718	±2. 5	PA SS
Ban d17	Stand- Alone	3.75 kHz	NaN	QP SK	23 79 0	1 @ 0	NV	-10	11.1 3	0.015 676	±2. 5	PA SS
Ban d17	Stand- Alone	3.75 kHz	NaN	QP SK	23 79 0	1 @ 0	NV	0	10.6 3	0.014 972	±2. 5	PA SS
Ban d17	Stand- Alone	3.75 kHz	NaN	QP SK	23 79 0	1 @ 0	NV	10	11.9 0	0.016 761	±2. 5	PA SS
Ban d17	Stand- Alone	3.75 kHz	NaN	QP SK	23 79 0	1 @ 0	NV	20	10.7 4	0.015 127	±2. 5	PA SS
Ban d17	Stand- Alone	3.75 kHz	NaN	QP SK	23 79 0	1 @ 0	NV	30	12.9 9	0.018 296	±2. 5	PA SS
Ban d17	Stand- Alone	3.75 kHz	NaN	QP SK	23 79 0	1 @ 0	NV	40	13.2 6	0.018 676	±2. 5	PA SS
Ban d17	Stand- Alone	3.75 kHz	NaN	QP SK	23 79 0	1 @ 0	NV	-30	9.57	0.013 479	±2. 5	PA SS
Ban d17	Stand- Alone	3.75 kHz	NaN	QP SK	23 79 0	1 @ 47	NV	30	-20.2 0	-0.02 8451	±2. 5	PA SS
Ban d17	Stand- Alone	3.75 kHz	NaN	QP SK	23 79 0	1 @ 47	NV	20	12.7 7	0.017 986	±2. 5	PA SS
Ban d17	Stand- Alone	3.75 kHz	NaN	QP SK	23 79	1 @	NV	10	11.0 4	0.015 549	±2. 5	PA SS

					0	47						
Ban d17	Stand- Alone	3.75 kHz	NaN	QP SK	23 79 0	1 @ 47	NV	0	-20.6 9	-0.02 9141	±2. 5	PA SS
Ban d17	Stand- Alone	3.75 kHz	NaN	QP SK	23 79 0	1 @ 47	NV	-10	26.9 1	0.037 901	±2. 5	PA SS
Ban d17	Stand- Alone	3.75 kHz	NaN	QP SK	23 79 0	1 @ 47	NV	40	-13.6 5	-0.01 9225	±2. 5	PA SS
Ban d17	Stand- Alone	3.75 kHz	NaN	QP SK	23 79 0	1 @ 47	NV	-30	-19.6 8	-0.02 7718	±2. 5	PA SS
Ban d17	Stand- Alone	3.75 kHz	NaN	QP SK	23 79 0	1 @ 47	NV	50	16.3 1	0.022 972	±2. 5	PA SS
Ban d17	Stand- Alone	3.75 kHz	NaN	QP SK	23 79 0	1 @ 47	NV	-20	-15.2 6	-0.02 1493	±2. 5	PA SS
Ban d17	Stand- Alone	15kHz z	NaN	QP SK	23 79 0	1 @ 0	NV	50	11.0 6	0.015 577	±2. 5	PA SS
Ban d17	Stand- Alone	15kHz z	NaN	QP SK	23 79 0	1 @ 0	NV	-20	8.08	0.011 380	±2. 5	PA SS
Ban d17	Stand- Alone	15kHz z	NaN	QP SK	23 79 0	1 @ 0	NV	-10	10.1 4	0.014 282	±2. 5	PA SS
Ban d17	Stand- Alone	15kHz z	NaN	QP SK	23 79 0	1 @ 0	NV	0	8.98	0.012 648	±2. 5	PA SS
Ban d17	Stand- Alone	15kHz z	NaN	QP SK	23 79 0	1 @ 0	NV	10	-14.1 3	-0.01 9901	±2. 5	PA SS
Ban d17	Stand- Alone	15kHz z	NaN	QP SK	23 79 0	1 @ 0	NV	20	7.60	0.010 704	±2. 5	PA SS
Ban d17	Stand- Alone	15kHz z	NaN	QP SK	23 79 0	1 @ 0	NV	30	-11.4 0	-0.01 6056	±2. 5	PA SS
Ban d17	Stand- Alone	15kHz z	NaN	QP SK	23 79 0	1 @ 0	NV	40	10.6 1	0.014 944	±2. 5	PA SS

Ban d17	Stand- Alone	15kHz	NaN	QP SK	23 79 0	1 @ 0	NV	-30	9.83	0.013 845	±2. 5	PA SS
Ban d17	Stand- Alone	15kHz	NaN	QP SK	23 79 0	1 @1 1	NV	40	-11.5 6	-0.01 6282	±2. 5	PA SS
Ban d17	Stand- Alone	15kHz	NaN	QP SK	23 79 0	1 @1 1	NV	30	-13.9 8	-0.01 9690	±2. 5	PA SS
Ban d17	Stand- Alone	15kHz	NaN	QP SK	23 79 0	1 @1 1	NV	20	-14.1 2	-0.01 9887	±2. 5	PA SS
Ban d17	Stand- Alone	15kHz	NaN	QP SK	23 79 0	1 @1 1	NV	10	-14.7 8	-0.02 0817	±2. 5	PA SS
Ban d17	Stand- Alone	15kHz	NaN	QP SK	23 79 0	1 @1 1	NV	0	-11.2 4	-0.01 5831	±2. 5	PA SS
Ban d17	Stand- Alone	15kHz	NaN	QP SK	23 79 0	1 @1 1	NV	-10	13.4 3	0.018 915	±2. 5	PA SS
Ban d17	Stand- Alone	15kHz	NaN	QP SK	23 79 0	1 @1 1	NV	-30	10.0 1	0.014 099	±2. 5	PA SS
Ban d17	Stand- Alone	15kHz	NaN	QP SK	23 79 0	1 @1 1	NV	50	9.64	0.013 577	±2. 5	PA SS
Ban d17	Stand- Alone	15kHz	NaN	QP SK	23 79 0	1 @1 1	NV	-20	-11.2 7	-0.01 5873	±2. 5	PA SS