

Appendix for NB-IOT Band 66

Product Name: Remote Street Lighting Controller
Model No: AGIL LCU 302

Appendix A: Average Power Output Data

Test Result

Band	OpMode	SCS	BW	Modulation	Channel	Tones	Conducted POWER(dBm)	Verdict
Band 66	Stand-Al one	3.75kHz	NaN	BPSK	131973	1@0	21.19	PASS
Band 66	Stand-Al one	3.75kHz	NaN	BPSK	131973	1@47	21.10	PASS
Band 66	Stand-Al one	3.75kHz	NaN	BPSK	132322	1@0	21.10	PASS
Band 66	Stand-Al one	3.75kHz	NaN	BPSK	132322	1@47	20.99	PASS
Band 66	Stand-Al one	3.75kHz	NaN	BPSK	132671	1@0	21.74	PASS
Band 66	Stand-Al one	3.75kHz	NaN	BPSK	132671	1@47	21.65	PASS
Band 66	Stand-Al one	3.75kHz	NaN	QPSK	131973	1@0	21.17	PASS
Band 66	Stand-Al one	3.75kHz	NaN	QPSK	131973	1@47	21.08	PASS
Band 66	Stand-Al one	3.75kHz	NaN	QPSK	132322	1@0	21.15	PASS
Band 66	Stand-Al one	3.75kHz	NaN	QPSK	132322	1@47	21.01	PASS
Band 66	Stand-Al one	3.75kHz	NaN	QPSK	132671	1@0	21.82	PASS
Band 66	Stand-Al one	3.75kHz	NaN	QPSK	132671	1@47	21.71	PASS
Band 66	Stand-Al one	15kHz	NaN	BPSK	131973	1@0	20.89	PASS
Band 66	Stand-Al one	15kHz	NaN	BPSK	131973	1@11	20.87	PASS
Band 66	Stand-Al one	15kHz	NaN	BPSK	132322	1@0	21.08	PASS
Band 66	Stand-Al one	15kHz	NaN	BPSK	132322	1@11	20.88	PASS
Band 66	Stand-Al one	15kHz	NaN	BPSK	132671	1@0	21.83	PASS

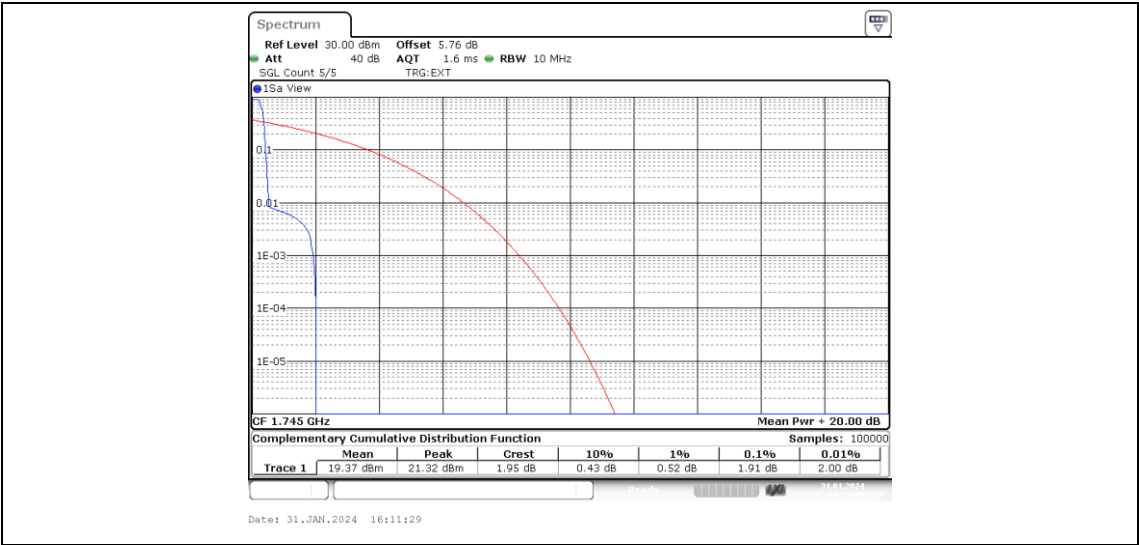
Band 66	Stand-Al one	15kHz	NaN	BPSK	132671	1@11	21.86	PASS
Band 66	Stand-Al one	15kHz	NaN	QPSK	131973	1@0	21.26	PASS
Band 66	Stand-Al one	15kHz	NaN	QPSK	131973	1@11	21.11	PASS
Band 66	Stand-Al one	15kHz	NaN	QPSK	131973	3@3	21.06	PASS
Band 66	Stand-Al one	15kHz	NaN	QPSK	132322	1@0	21.11	PASS
Band 66	Stand-Al one	15kHz	NaN	QPSK	132322	1@11	21.00	PASS
Band 66	Stand-Al one	15kHz	NaN	QPSK	132322	3@3	21.03	PASS
Band 66	Stand-Al one	15kHz	NaN	QPSK	132671	1@0	21.35	PASS
Band 66	Stand-Al one	15kHz	NaN	QPSK	132671	1@11	21.13	PASS
Band 66	Stand-Al one	15kHz	NaN	QPSK	132671	3@3	21.78	PASS

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

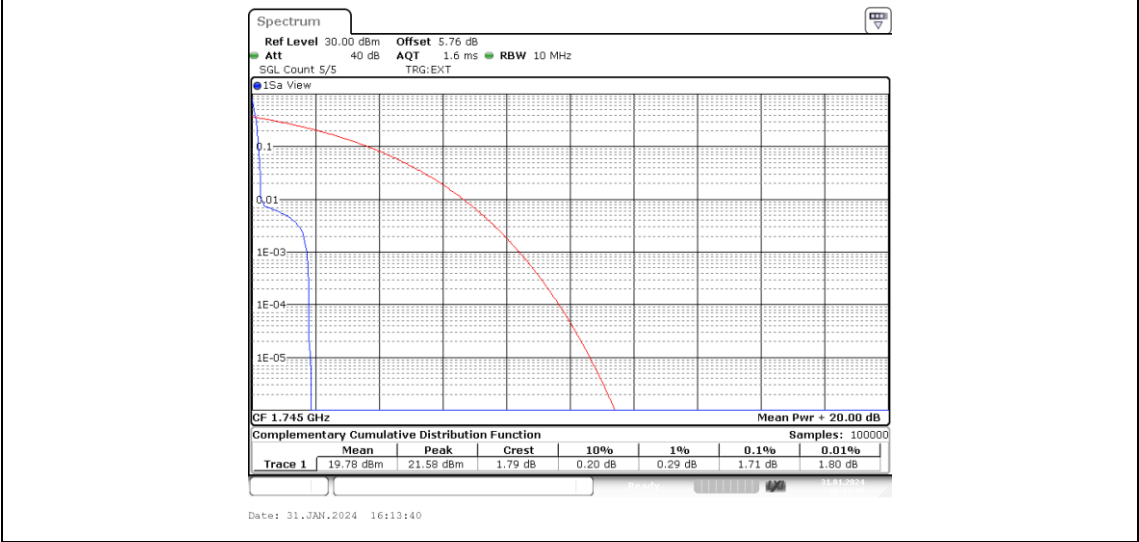
Test Result

Band	OpMode	SCS	BW	Modu	Channel	Tones	Result (dBm)	Limit (dBm)	Verdict
Band66	Stand-Alone	3.75kHz	NaN	BPSK	132322	1@0	1.91	<=13	PASS
Band66	Stand-Alone	3.75kHz	NaN	BPSK	132322	1@47	1.71	<=13	PASS
Band66	Stand-Alone	3.75kHz	NaN	QPSK	132322	1@0	1.54	<=13	PASS
Band66	Stand-Alone	3.75kHz	NaN	QPSK	132322	1@47	1.36	<=13	PASS
Band66	Stand-Alone	15kHz	NaN	BPSK	132322	1@0	1.36	<=13	PASS
Band66	Stand-Alone	15kHz	NaN	BPSK	132322	1@11	1.39	<=13	PASS
Band66	Stand-Alone	15kHz	NaN	QPSK	132322	1@0	1.36	<=13	PASS
Band66	Stand-Alone	15kHz	NaN	QPSK	132322	1@11	1.39	<=13	PASS
Band66	Stand-Alone	15kHz	NaN	QPSK	132322	3@3	3.16	<=13	PASS

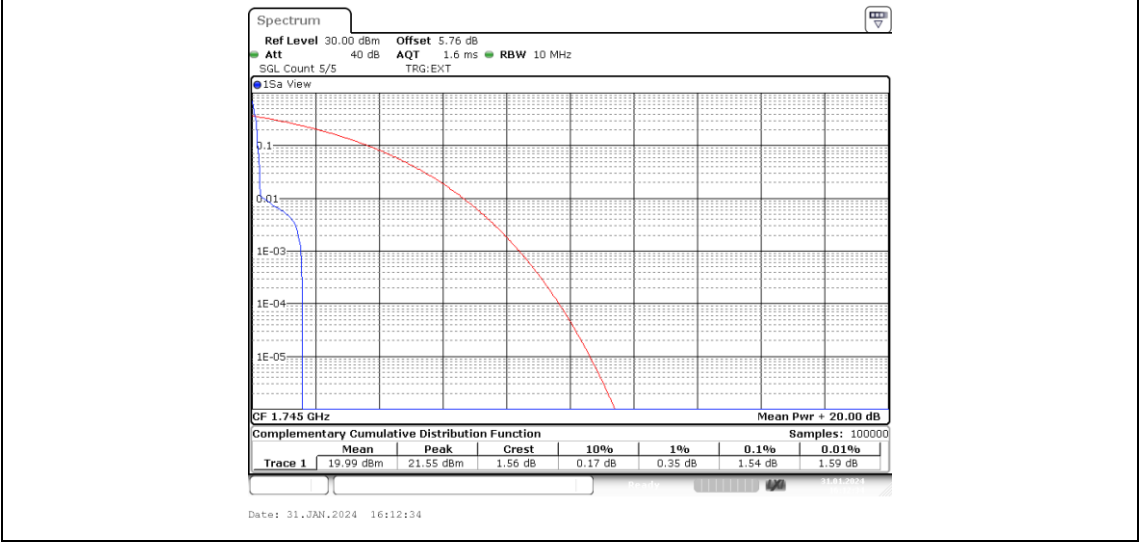
Test Graphs

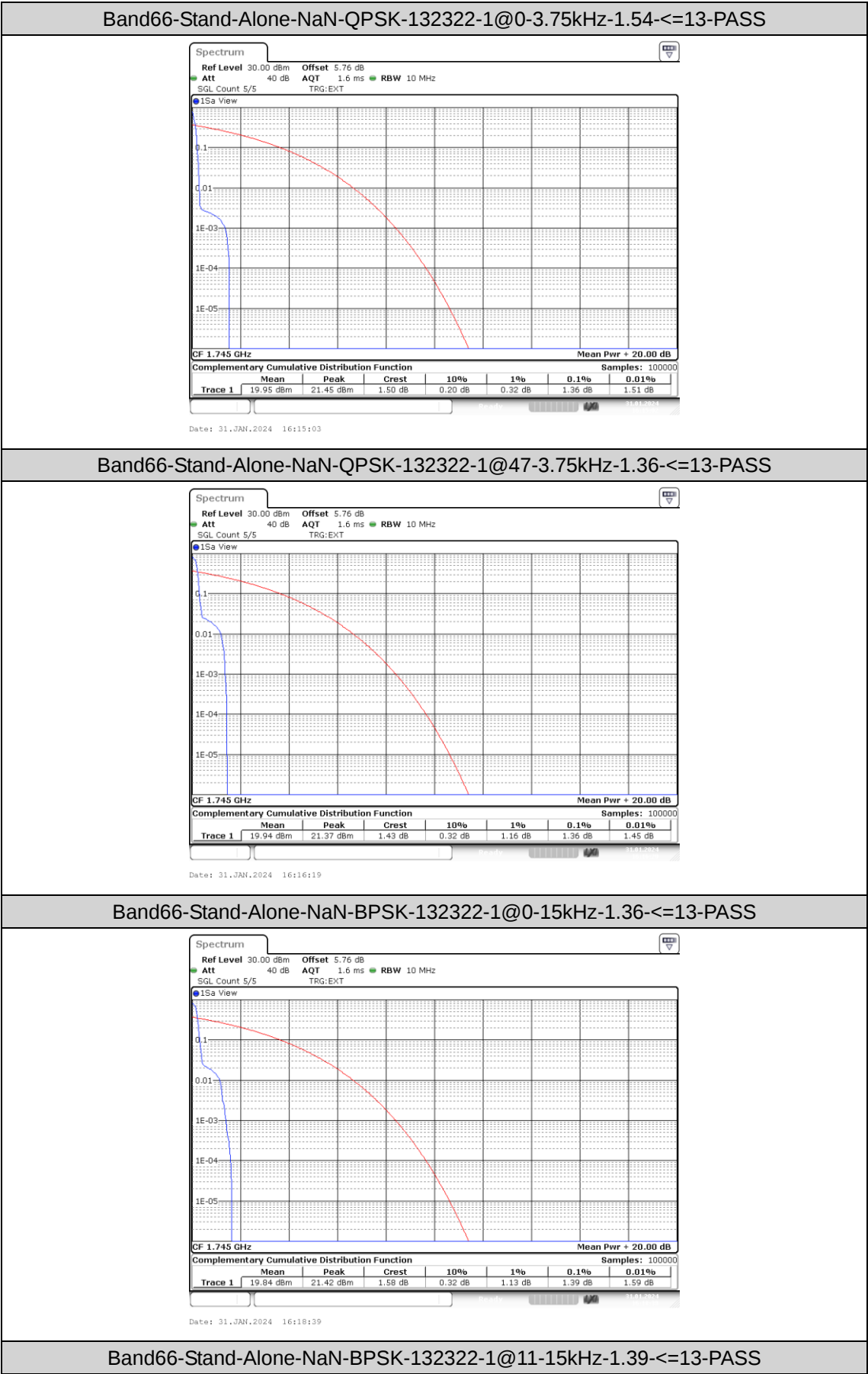


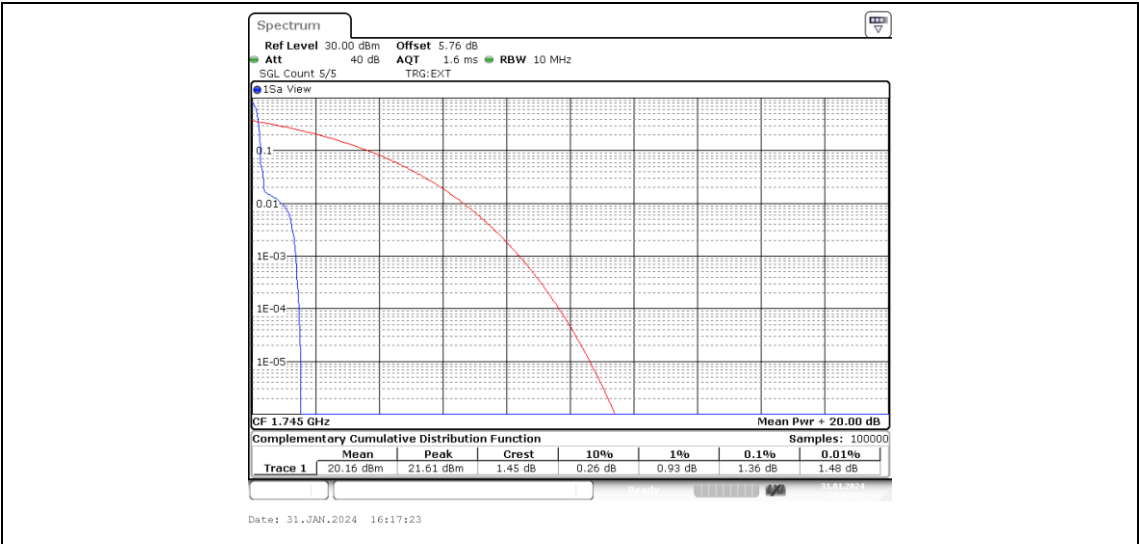
Band66-Stand-Alone-NaN-BPSK-132322-1@0-3.75kHz-1.91-<=13-PASS



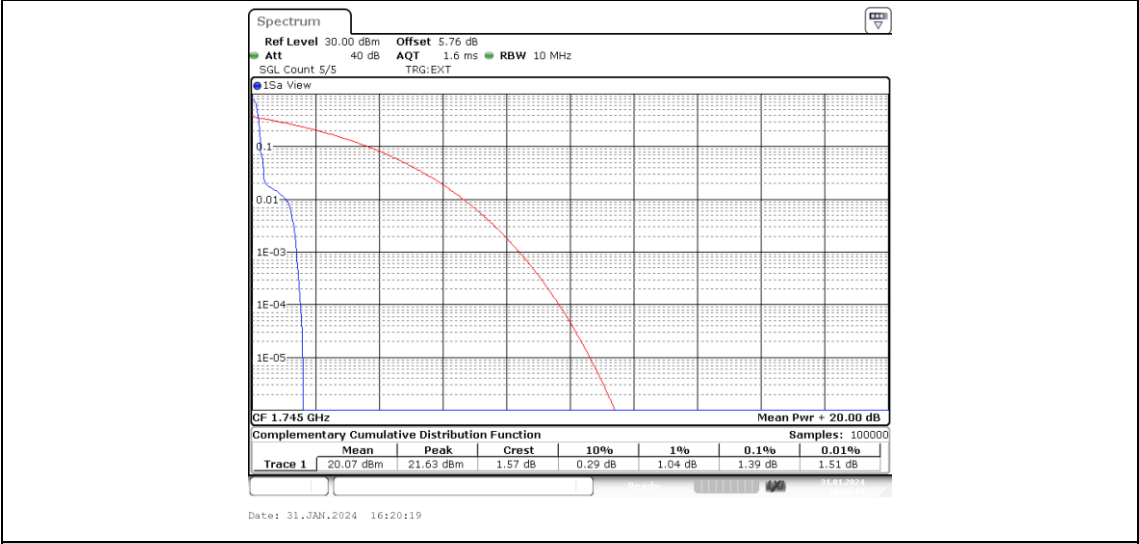
Band66-Stand-Alone-NaN-BPSK-132322-1@47-3.75kHz-1.71-<=13-PASS



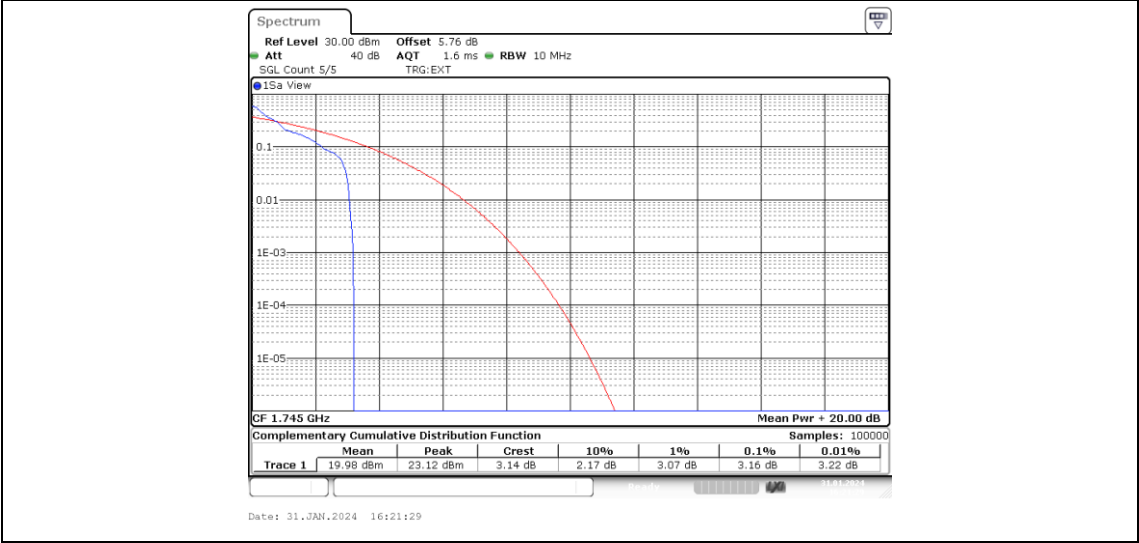




Band66-Stand-Alone-NaN-QPSK-132322-1@0-15kHz-1.36-<=13-PASS



Band66-Stand-Alone-NaN-QPSK-132322-1@11-15kHz-1.39-<=13-PASS



Band66-Stand-Alone-NaN-QPSK-132322-3@3-15kHz-3.16-<=13-PASS

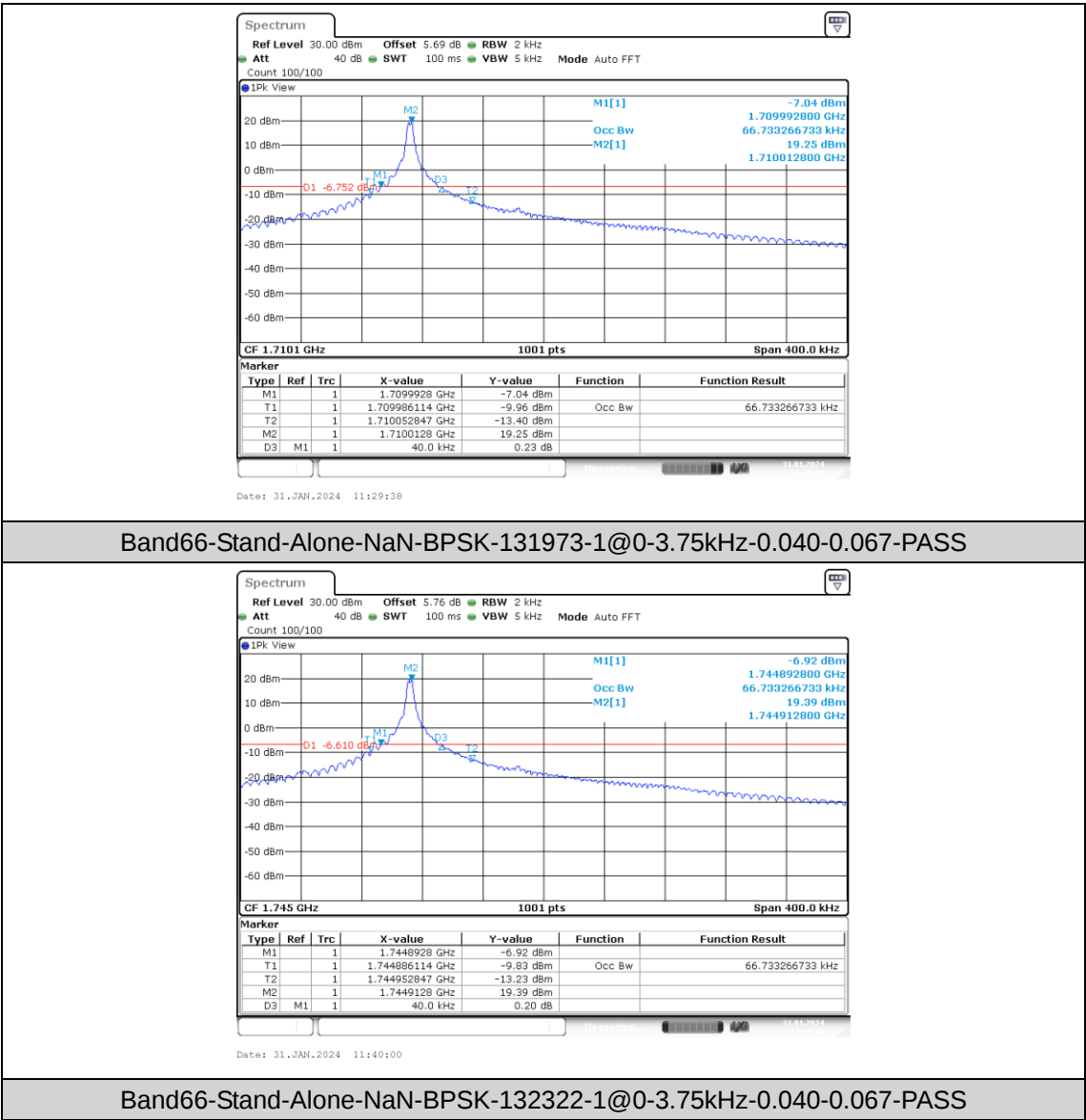
Appendix C: Emission Bandwidth

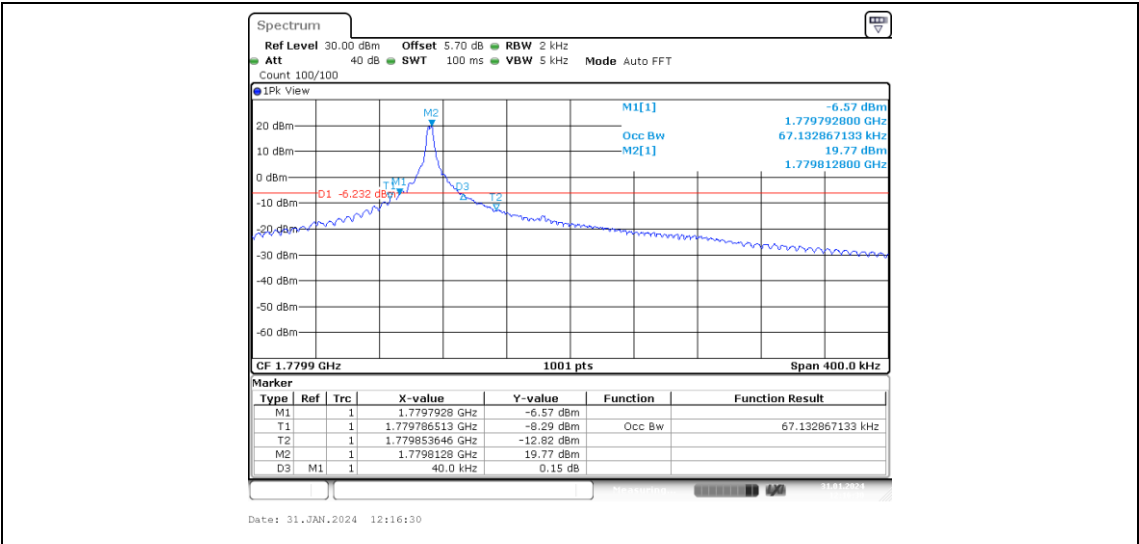
Test Result

Band	OpMode	SCS	BW	Modu	Channel	Tones	OBW(MHz)	EBW(MHz)	Verdict
Band66	Stand-Alone	3.75kHz	NaN	BPSK	131973	1@0	0.067	0.040	PASS
Band66	Stand-Alone	3.75kHz	NaN	BPSK	132322	1@0	0.067	0.040	PASS
Band66	Stand-Alone	3.75kHz	NaN	BPSK	132671	1@0	0.067	0.040	PASS
Band66	Stand-Alone	3.75kHz	NaN	QPSK	131973	1@0	0.076	0.042	PASS
Band66	Stand-Alone	3.75kHz	NaN	QPSK	132322	1@0	0.076	0.042	PASS
Band66	Stand-Alone	3.75kHz	NaN	QPSK	132671	1@0	0.076	0.040	PASS
Band66	Stand-Alone	15kHz	NaN	BPSK	131973	1@0	0.133	0.107	PASS
Band66	Stand-Alone	15kHz	NaN	BPSK	131973	12@0	0.185	0.251	PASS
Band66	Stand-Alone	15kHz	NaN	BPSK	132322	1@0	0.134	0.107	PASS
Band66	Stand-Alone	15kHz	NaN	BPSK	132322	12@0	0.185	0.251	PASS
Band66	Stand-Alone	15kHz	NaN	BPSK	132671	1@0	0.133	0.107	PASS
Band66	Stand-Alone	15kHz	NaN	BPSK	132671	12@0	0.185	0.251	PASS
Band66	Stand-Alone	15kHz	NaN	QPSK	131973	1@0	0.133	0.119	PASS
Band66	Stand-Alone	15kHz	NaN	QPSK	131973	12@0	0.185	0.251	PASS
Band66	Stand-Alone	15kHz	NaN	QPSK	132322	1@0	0.133	0.119	PASS
Band66	Stand-Alone	15kHz	NaN	QPSK	132322	12@0	0.185	0.251	PASS
Band66	Stand-Alone	15kHz	NaN	QPSK	132671	1@0	0.133	0.119	PASS

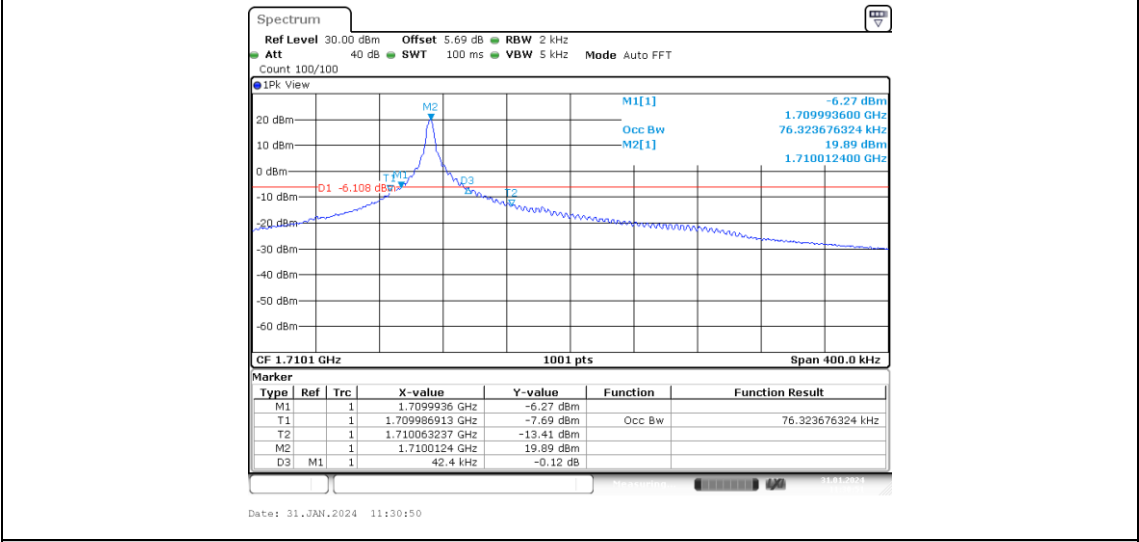
Band66	Stand-Al one	15kHz	NaN	QPSK	132671	12@0	0.185	0.251	PASS
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Test Graphs

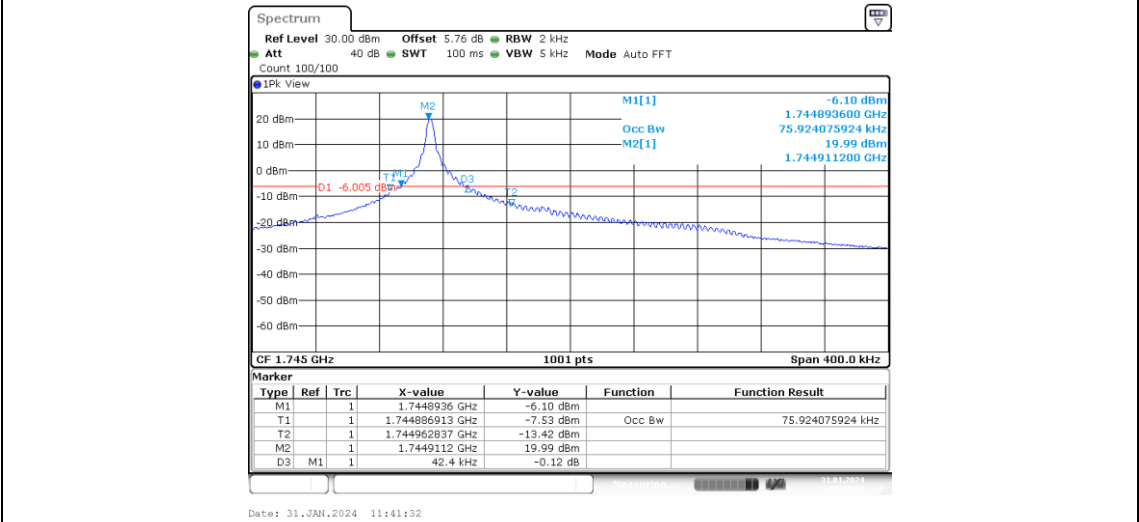




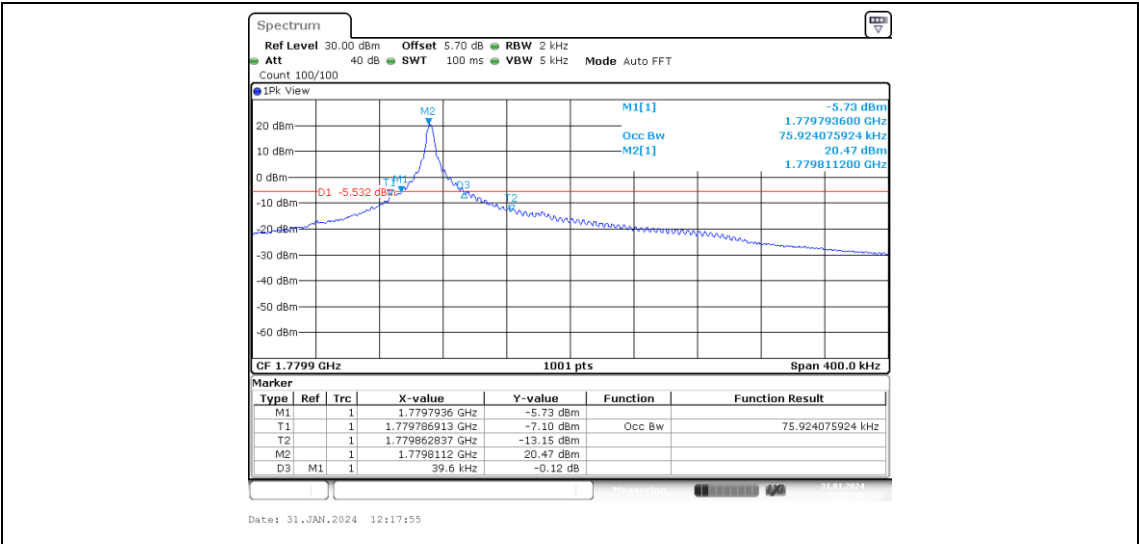
Band66-Stand-Alone-NaN-BPSK-132671-1@0-3.75kHz-0.040-0.067-PASS



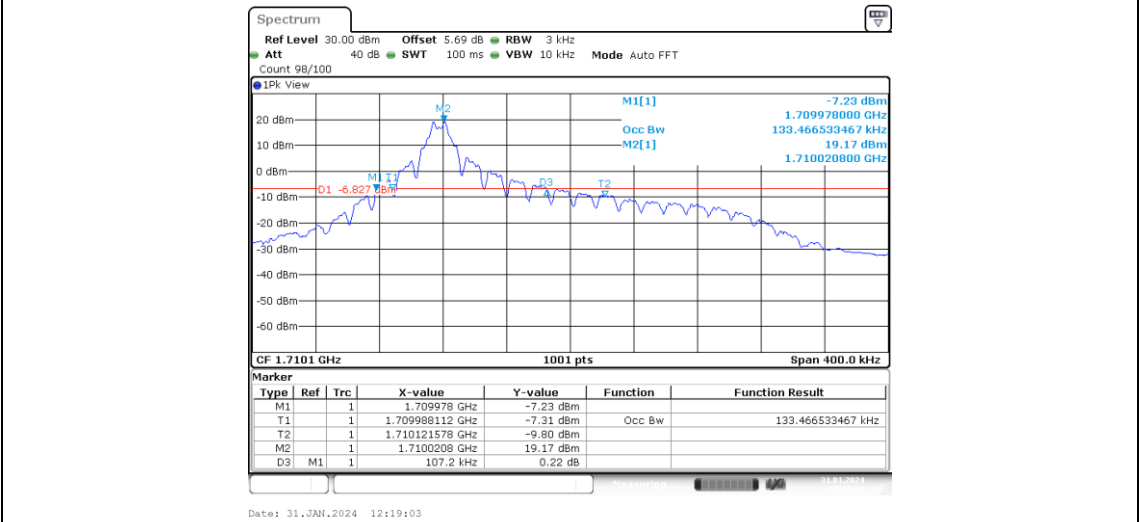
Band66-Stand-Alone-NaN-QPSK-131973-1@0-3.75kHz-0.042-0.076-PASS



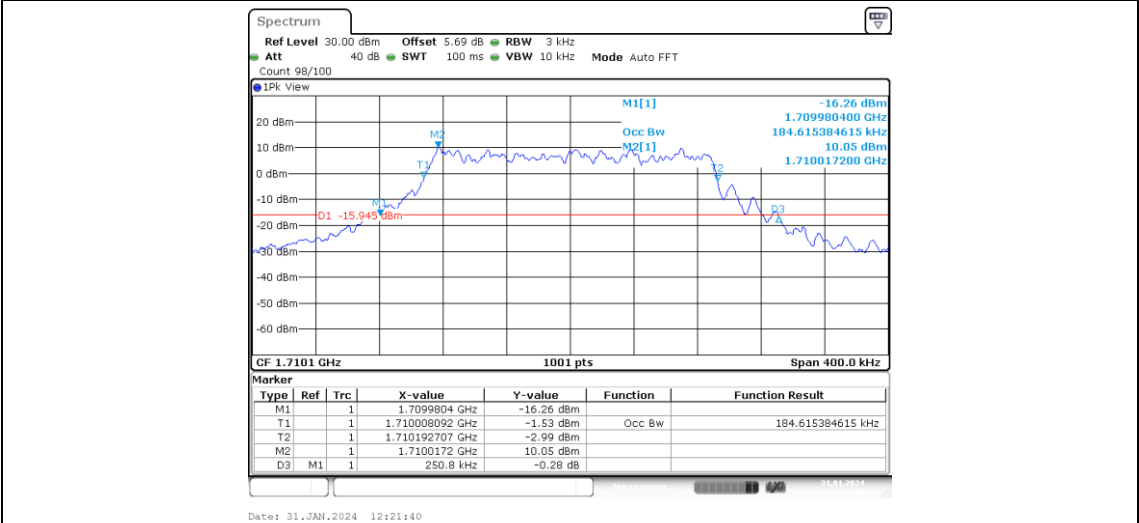
Band66-Stand-Alone-NaN-QPSK-132322-1@0-3.75kHz-0.042-0.076-PASS



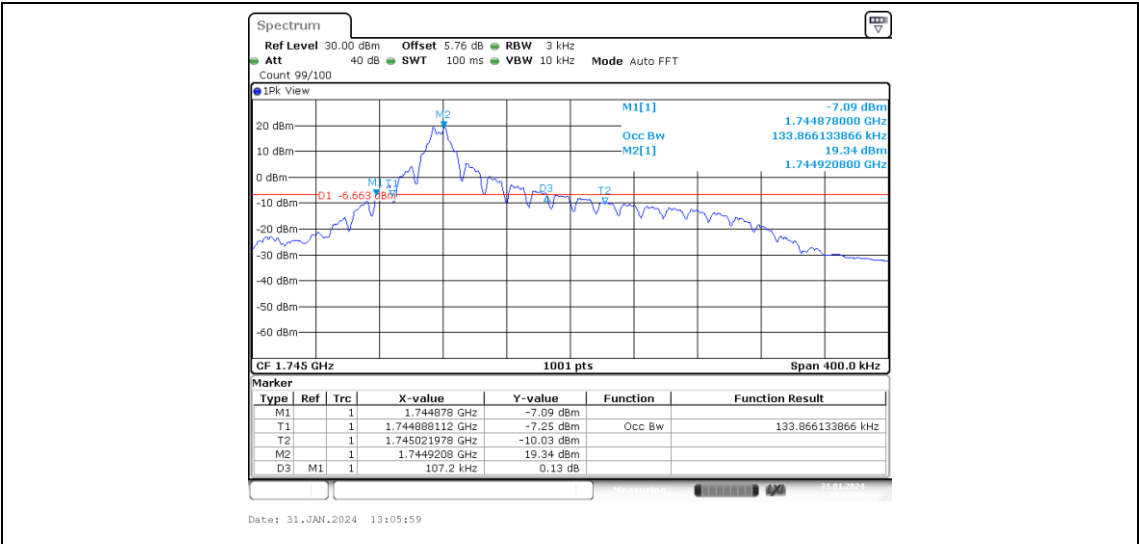
Band66-Stand-Alone-NaN-QPSK-132671-1@0-3.75kHz-0.040-0.076-PASS



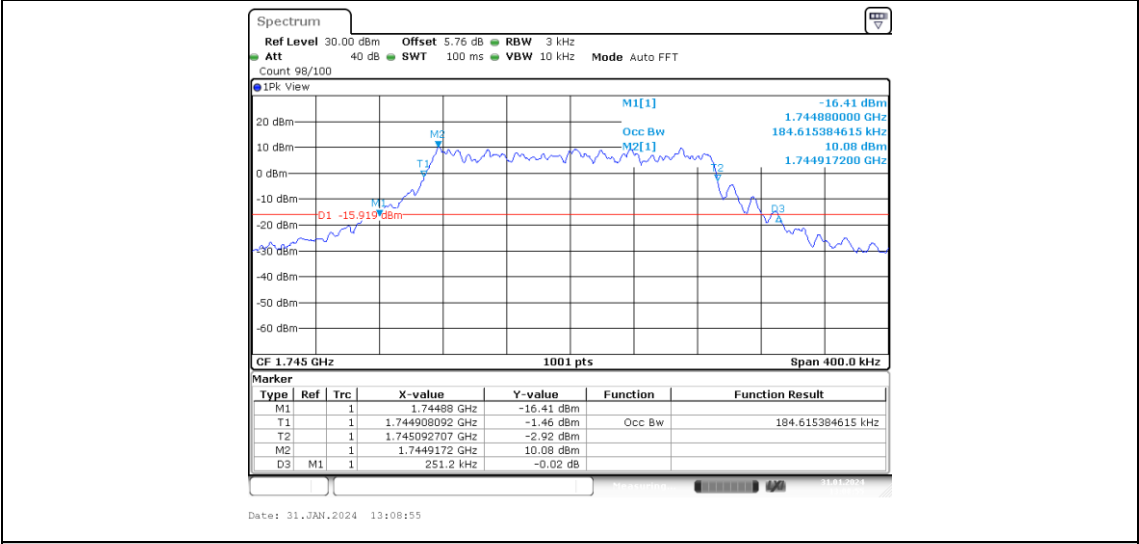
Band66-Stand-Alone-NaN-BPSK-131973-1@0-15kHz-0.107-0.133-PASS



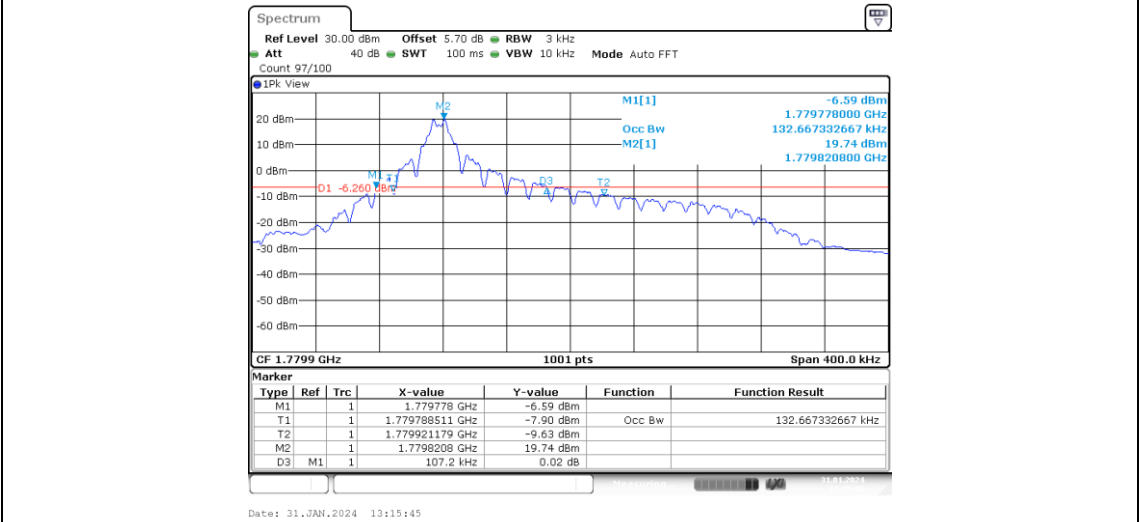
Band66-Stand-Alone-NaN-BPSK-131973-12@0-15kHz-0.251-0.185-PASS



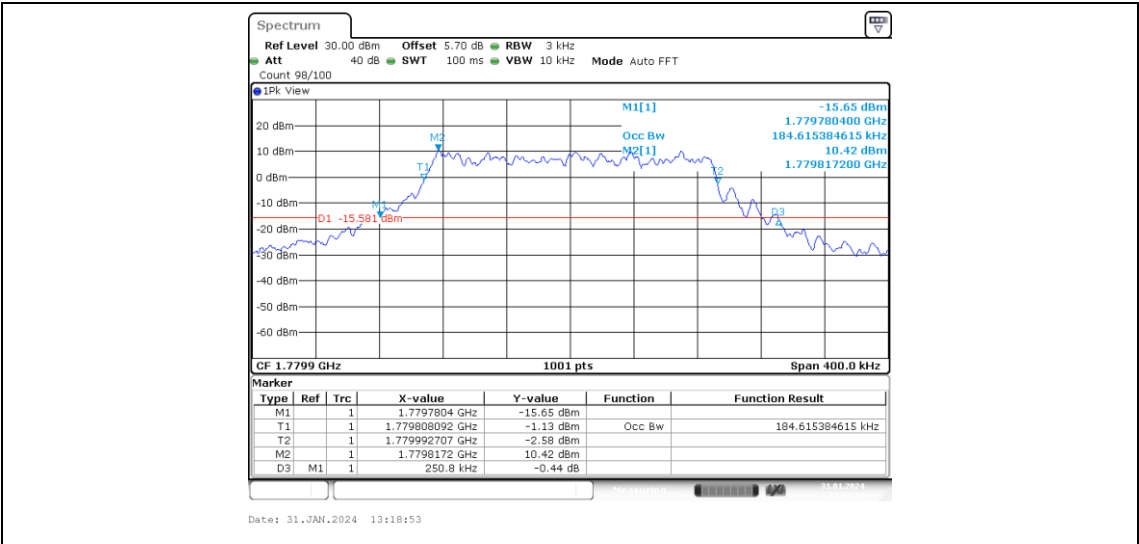
Band66-Stand-Alone-NaN-BPSK-132322-1@0-15kHz-0.107-0.134-PASS



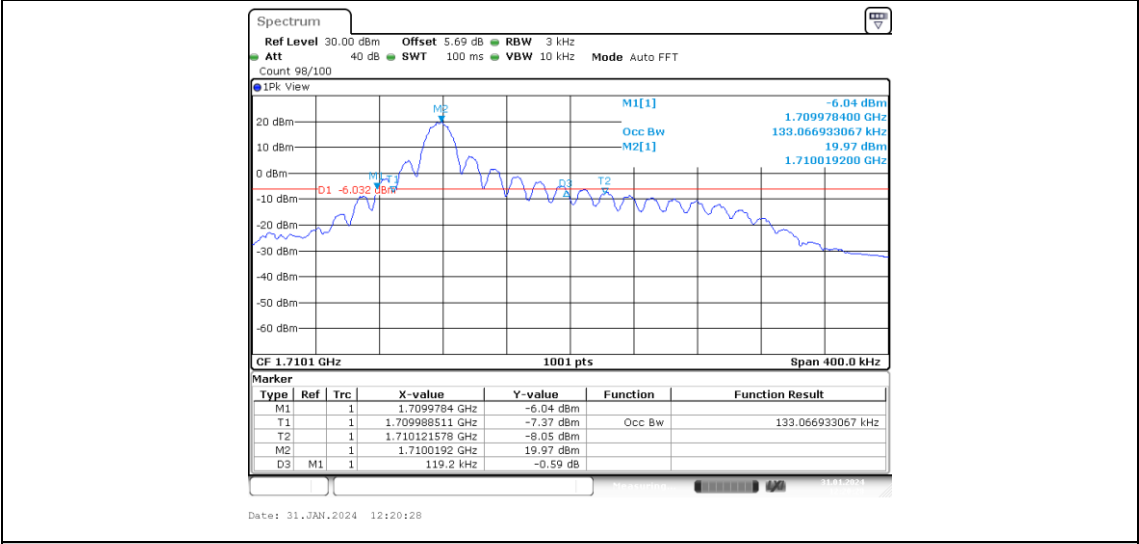
Band66-Stand-Alone-NaN-BPSK-132322-12@0-15kHz-0.251-0.185-PASS



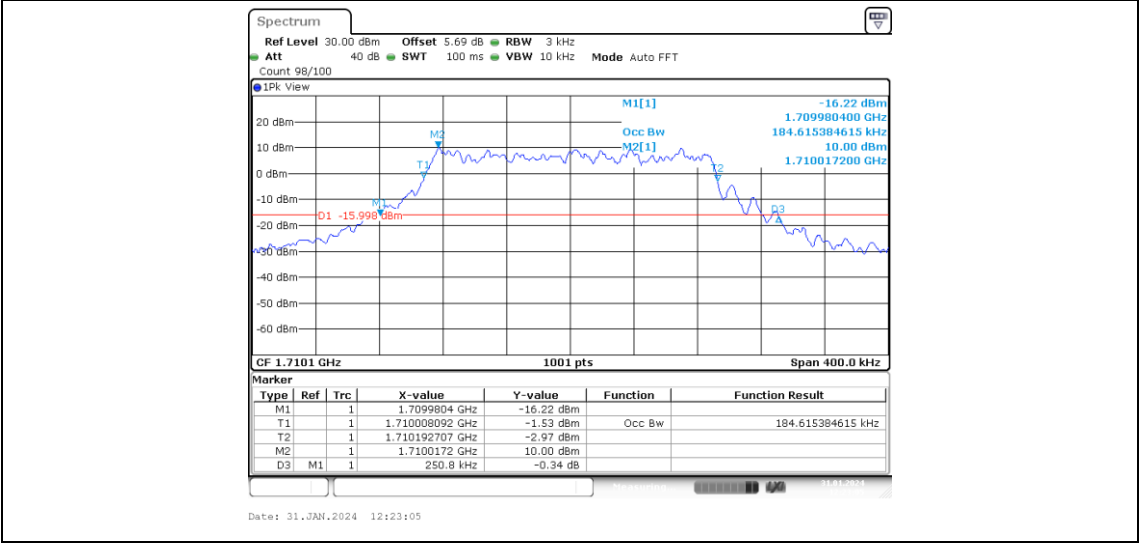
Band66-Stand-Alone-NaN-BPSK-132671-1@0-15kHz-0.107-0.133-PASS



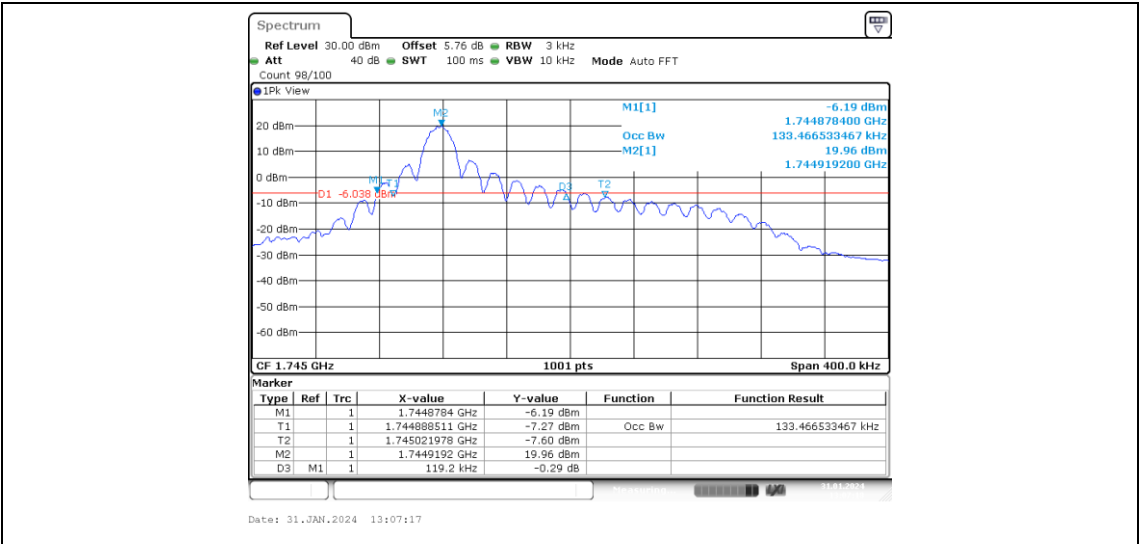
Band66-Stand-Alone-NaN-BPSK-132671-12@0-15kHz-0.251-0.185-PASS



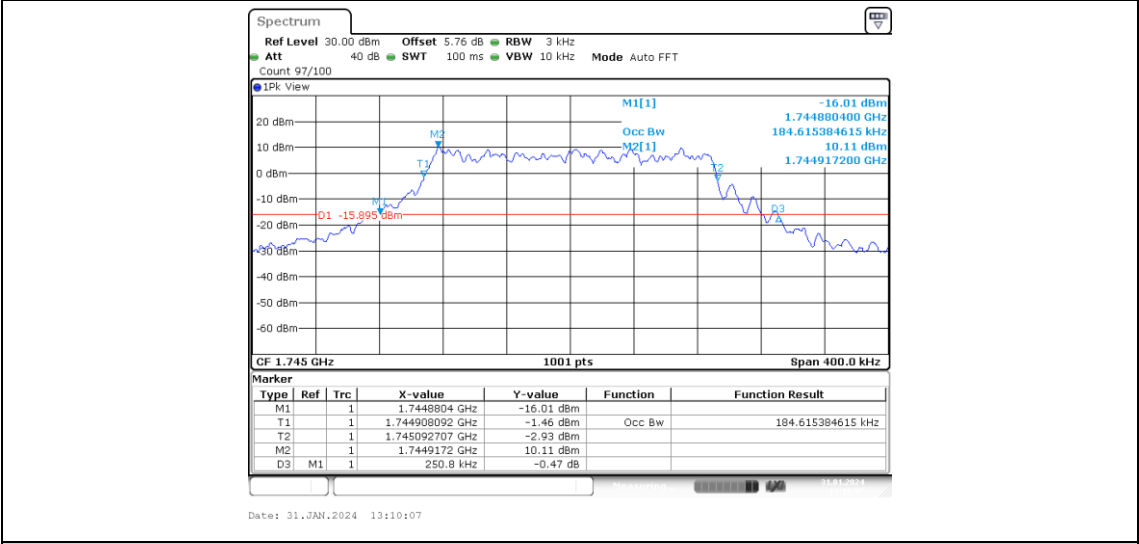
Band66-Stand-Alone-NaN-QPSK-131973-1@0-15kHz-0.119-0.133-PASS



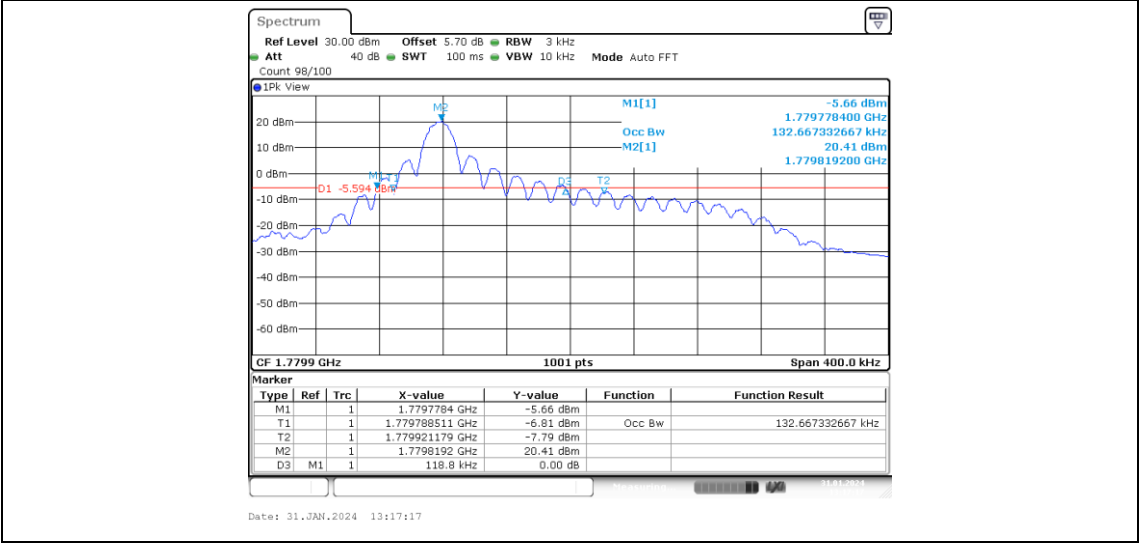
Band66-Stand-Alone-NaN-QPSK-131973-12@0-15kHz-0.251-0.185-PASS



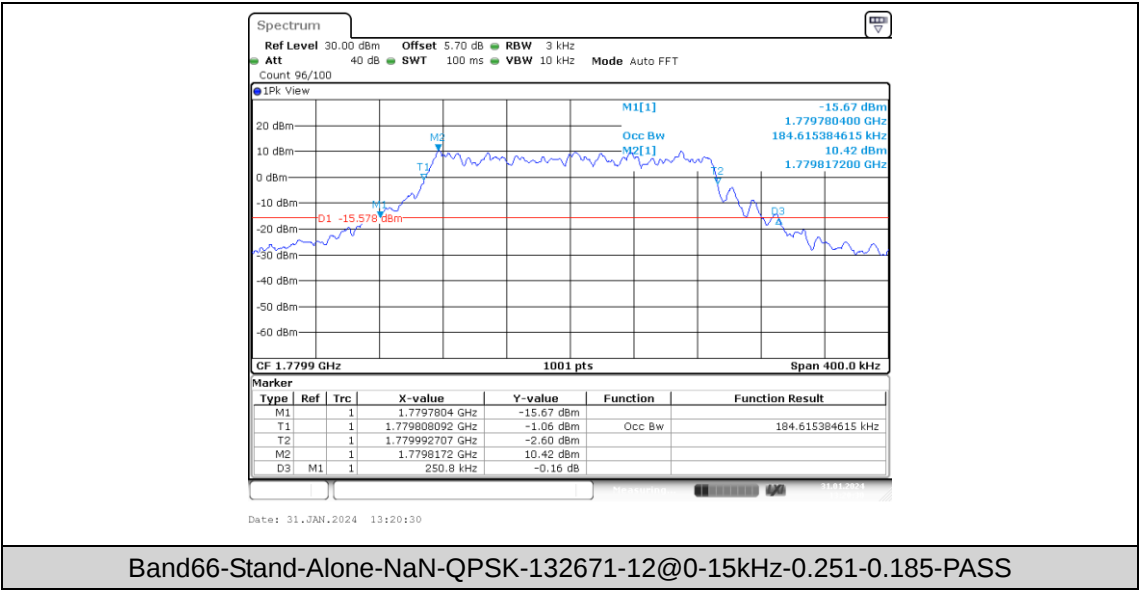
Band66-Stand-Alone-NaN-QPSK-132322-1@0-15kHz-0.119-0.133-PASS



Band66-Stand-Alone-NaN-QPSK-132322-12@0-15kHz-0.251-0.185-PASS



Band66-Stand-Alone-NaN-QPSK-132671-1@0-15kHz-0.119-0.133-PASS



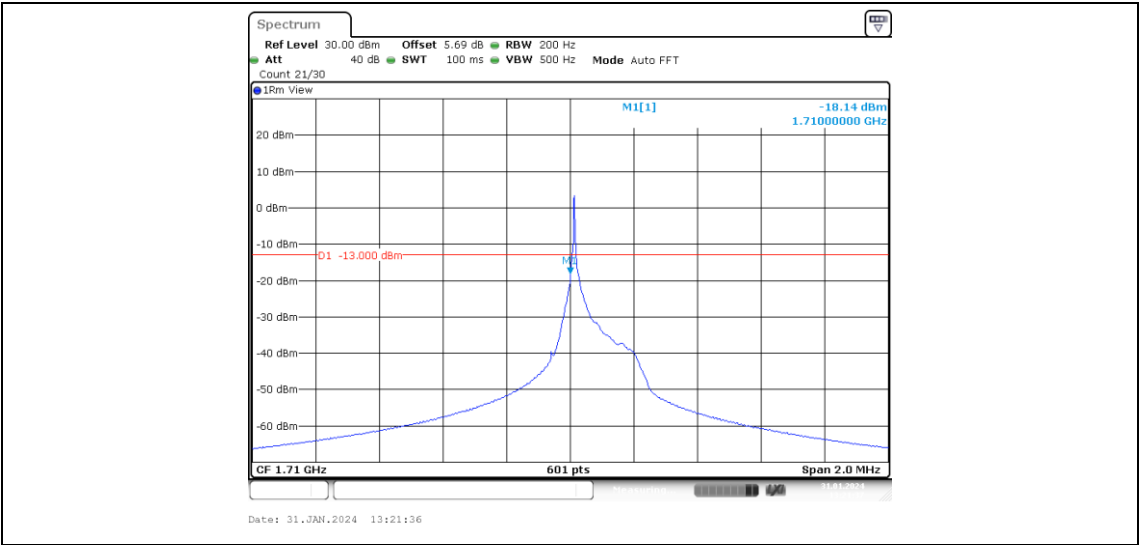
Appendix D: Band Edge

Test Result

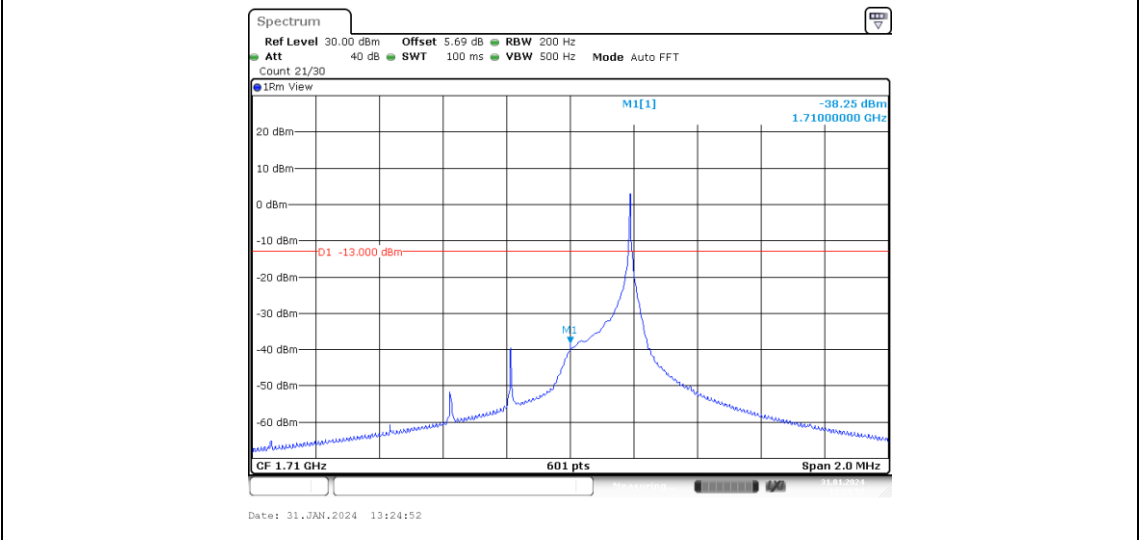
Band	OpMode	SCS	BW	Modu	Channel	Tones	Result (dBm)	Verdict
Band66	Stand-Alone	3.75kHz	NaN	BPSK	131973	1@0	-18.14	PASS
Band66	Stand-Alone	3.75kHz	NaN	BPSK	131973	1@47	-38.25	PASS
Band66	Stand-Alone	3.75kHz	NaN	BPSK	132671	1@0	-39.35	PASS
Band66	Stand-Alone	3.75kHz	NaN	BPSK	132671	1@47	-18.17	PASS
Band66	Stand-Alone	3.75kHz	NaN	QPSK	131973	1@0	-19.68	PASS
Band66	Stand-Alone	3.75kHz	NaN	QPSK	131973	1@47	-38.65	PASS
Band66	Stand-Alone	3.75kHz	NaN	QPSK	132671	1@0	-40.89	PASS
Band66	Stand-Alone	3.75kHz	NaN	QPSK	132671	1@47	-19.17	PASS
Band66	Stand-Alone	15kHz	NaN	BPSK	131973	1@0	-17.08	PASS
Band66	Stand-Alone	15kHz	NaN	BPSK	131973	1@11	-35.92	PASS
Band66	Stand-Alone	15kHz	NaN	BPSK	131973	12@0	-25.54	PASS
Band66	Stand-Alone	15kHz	NaN	BPSK	132671	1@0	-36.92	PASS
Band66	Stand-Alone	15kHz	NaN	BPSK	132671	1@11	-17.12	PASS
Band66	Stand-Alone	15kHz	NaN	BPSK	132671	12@0	-24.32	PASS
Band66	Stand-Alone	15kHz	NaN	QPSK	131973	1@0	-18.88	PASS
Band66	Stand-Alone	15kHz	NaN	QPSK	131973	1@11	-37.13	PASS
Band66	Stand-Alone	15kHz	NaN	QPSK	131973	12@0	-25.2	PASS

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Band66	Stand-Alone	15kHz	NaN	QPSK	132671	1@0	-36.5 2	PASS
Band66	Stand-Alone	15kHz	NaN	QPSK	132671	1@11	-19.2 6	PASS
Band66	Stand-Alone	15kHz	NaN	QPSK	132671	12@0	-26.0 0	PASS

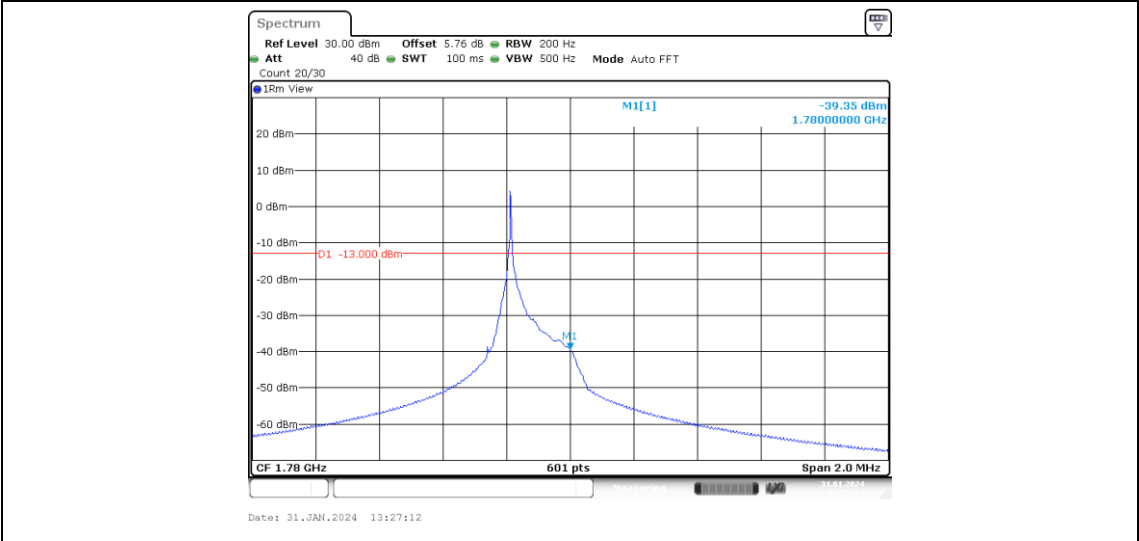
Test Graphs



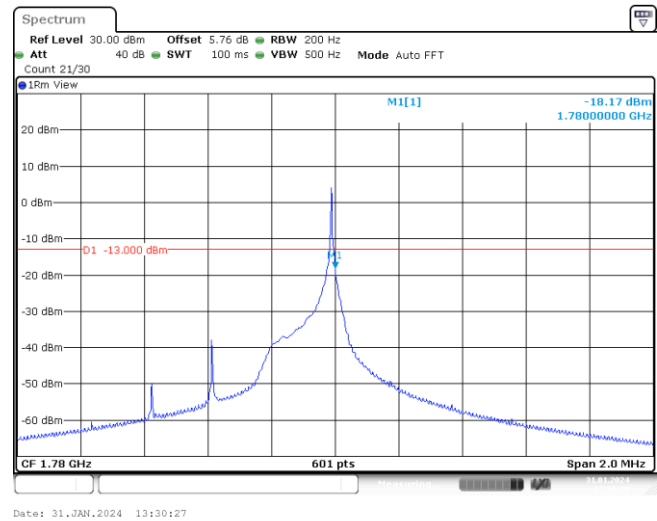
Band66-Stand-Alone-NaN-BPSK-131973-1@0-3.75kHz--18.14-PASS



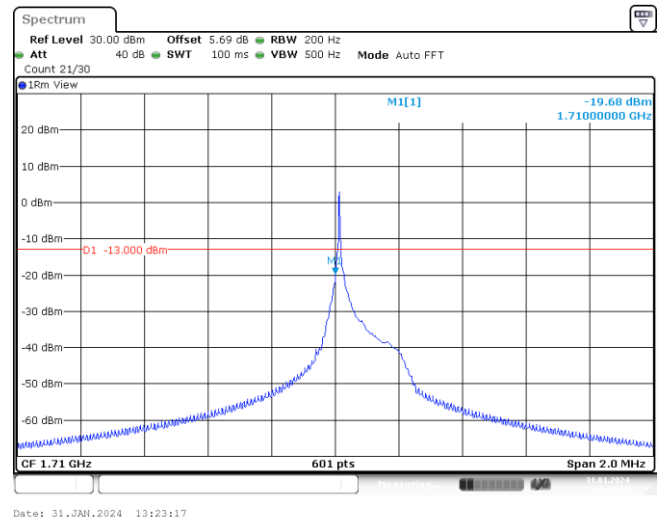
Band66-Stand-Alone-NaN-BPSK-131973-1@47-3.75kHz--38.25-PASS



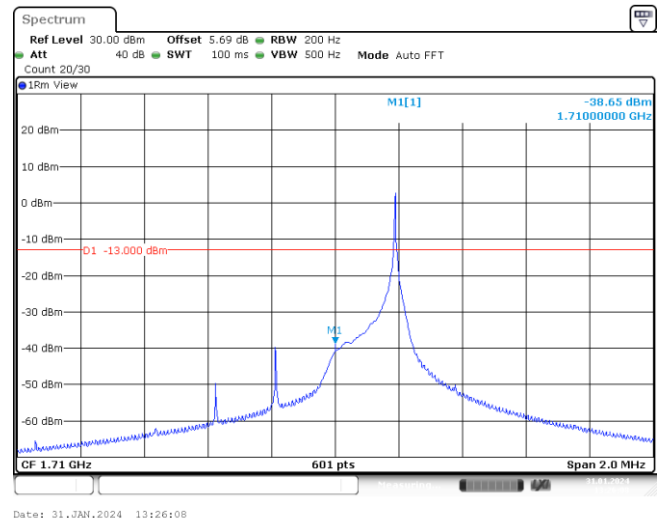
Band66-Stand-Alone-NaN-BPSK-132671-1@0-3.75kHz--39.35-PASS



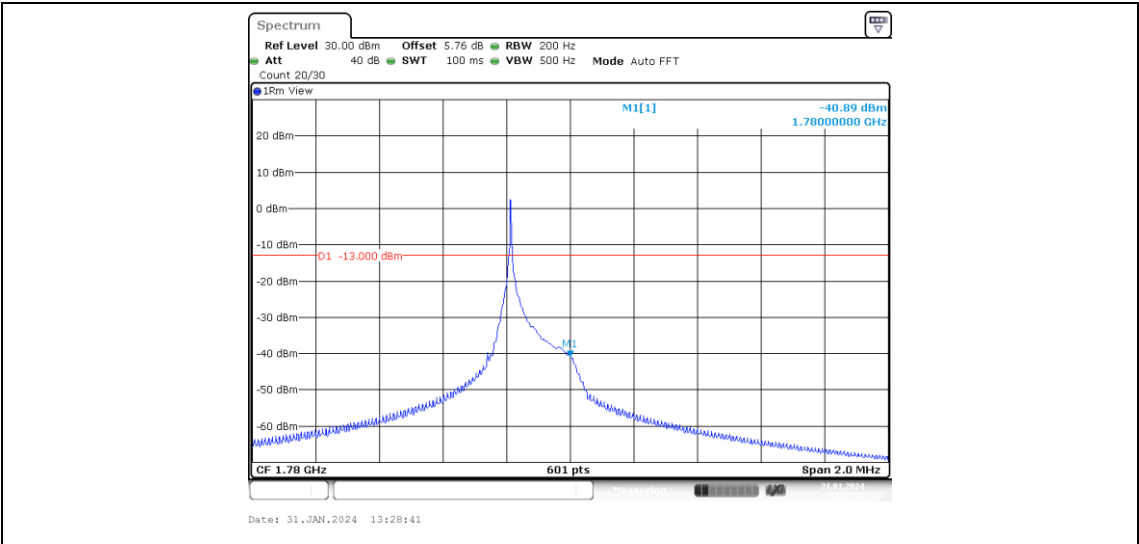
Band66-Stand-Alone-NaN-BPSK-132671-1@47-3.75kHz--18.17-PASS



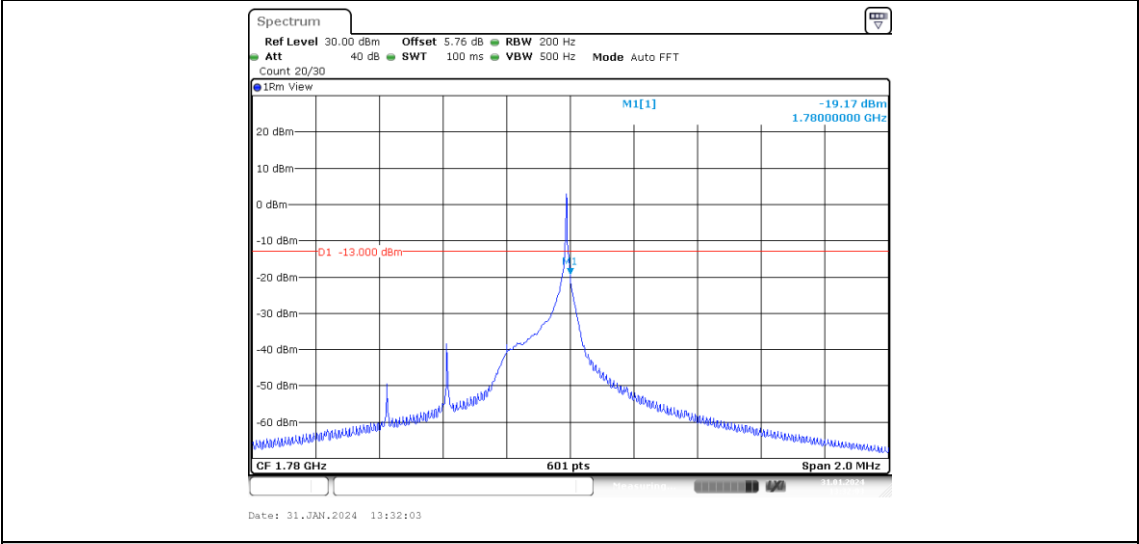
Band66-Stand-Alone-NaN-QPSK-131973-1@0-3.75kHz--19.68-PASS



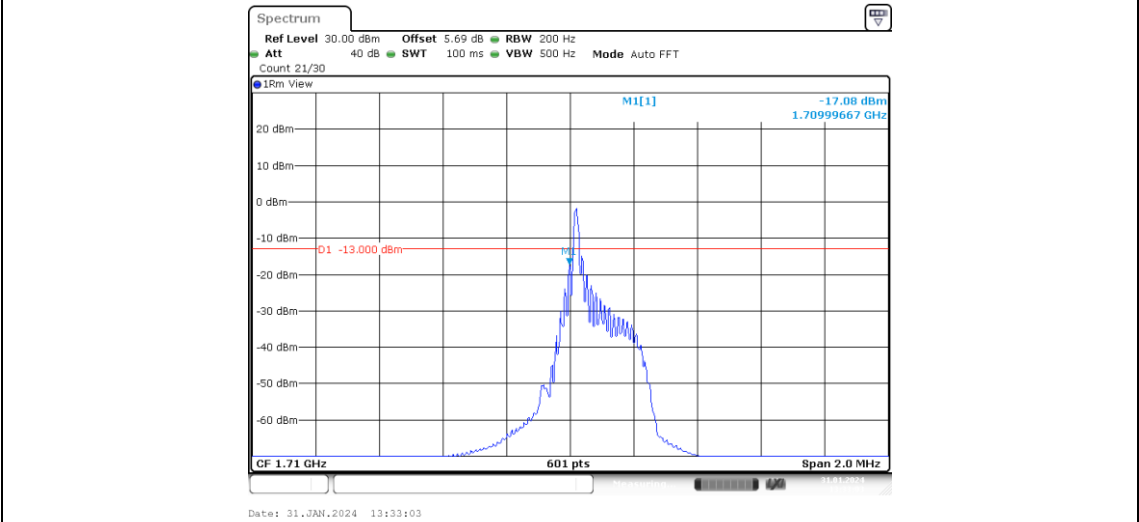
Band66-Stand-Alone-NaN-QPSK-131973-1@47-3.75kHz--38.65-PASS



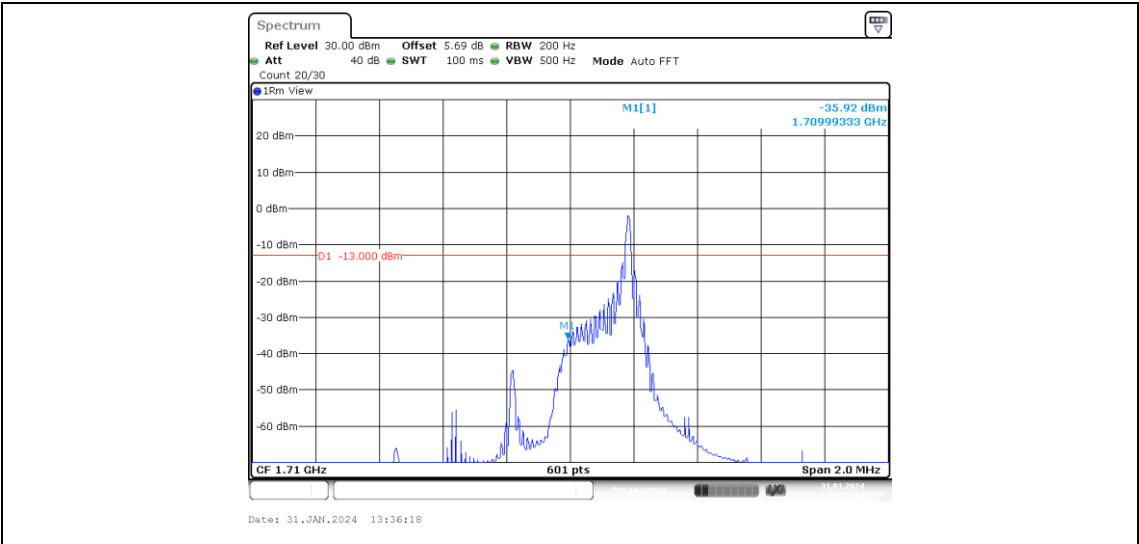
Band66-Stand-Alone-NaN-QPSK-132671-1@0-3.75kHz--40.89-PASS



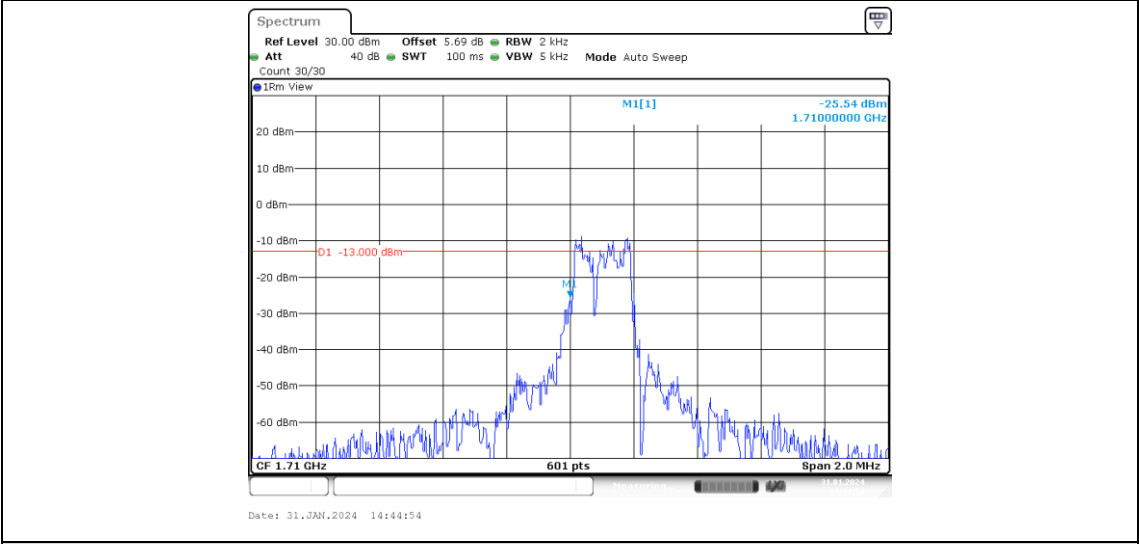
Band66-Stand-Alone-NaN-QPSK-132671-1@47-3.75kHz--19.17-PASS



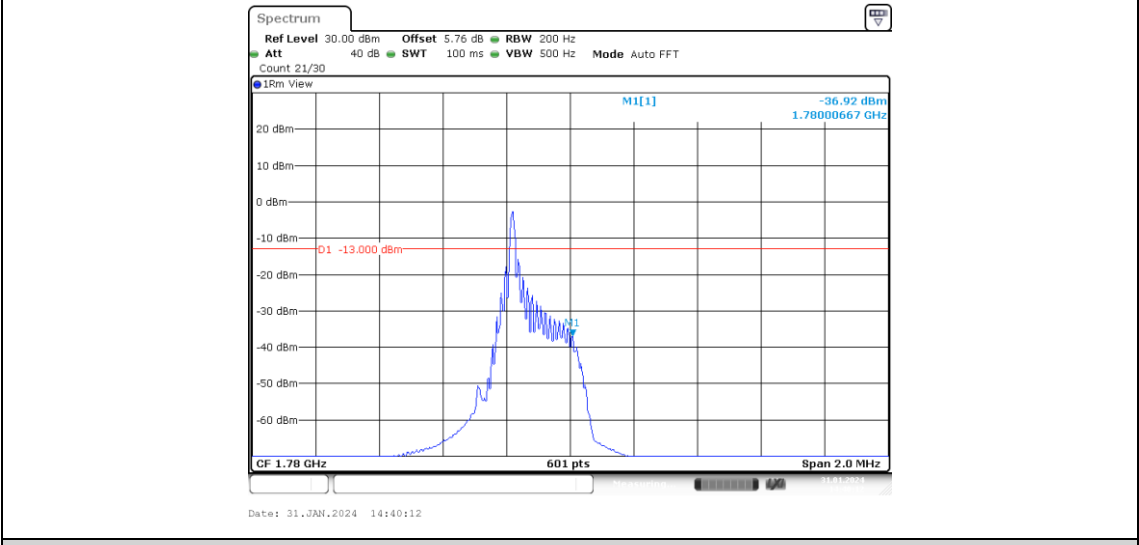
Band66-Stand-Alone-NaN-BPSK-131973-1@0-15kHz--17.08-PASS



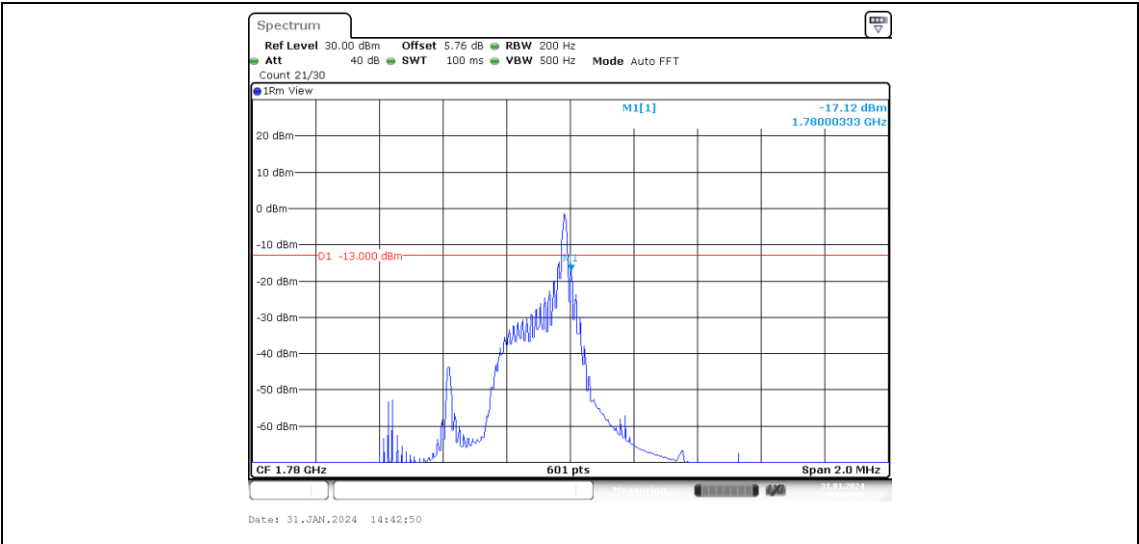
Band66-Stand-Alone-NaN-BPSK-131973-1@11-15kHz--35.92-PASS



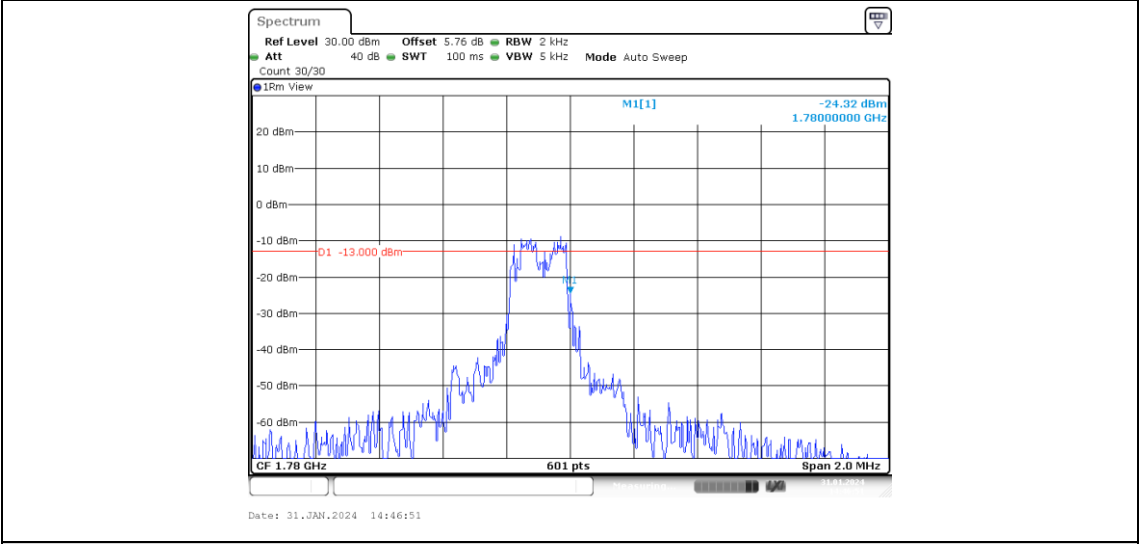
Band66-Stand-Alone-NaN-BPSK-131973-12@0-15kHz--25.54-PASS



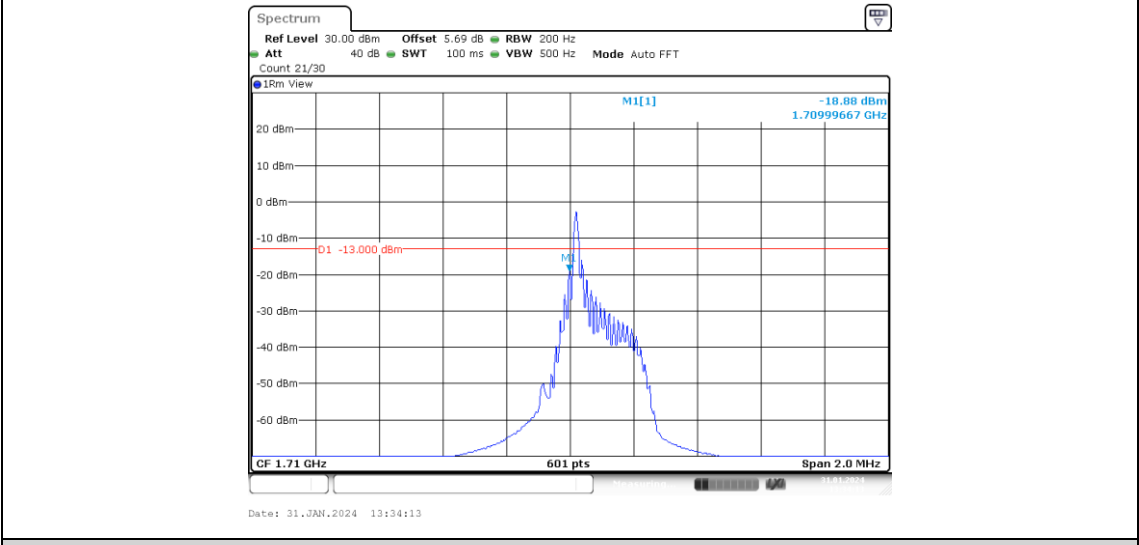
Band66-Stand-Alone-NaN-BPSK-132671-1@0-15kHz--36.92-PASS



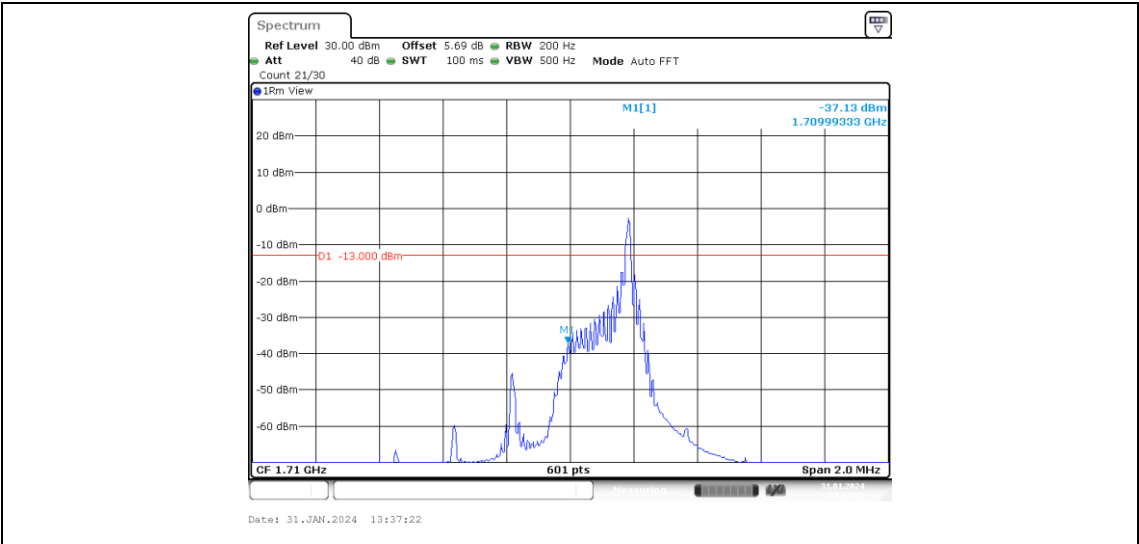
Band66-Stand-Alone-NaN-BPSK-132671-1@11-15kHz--17.12-PASS



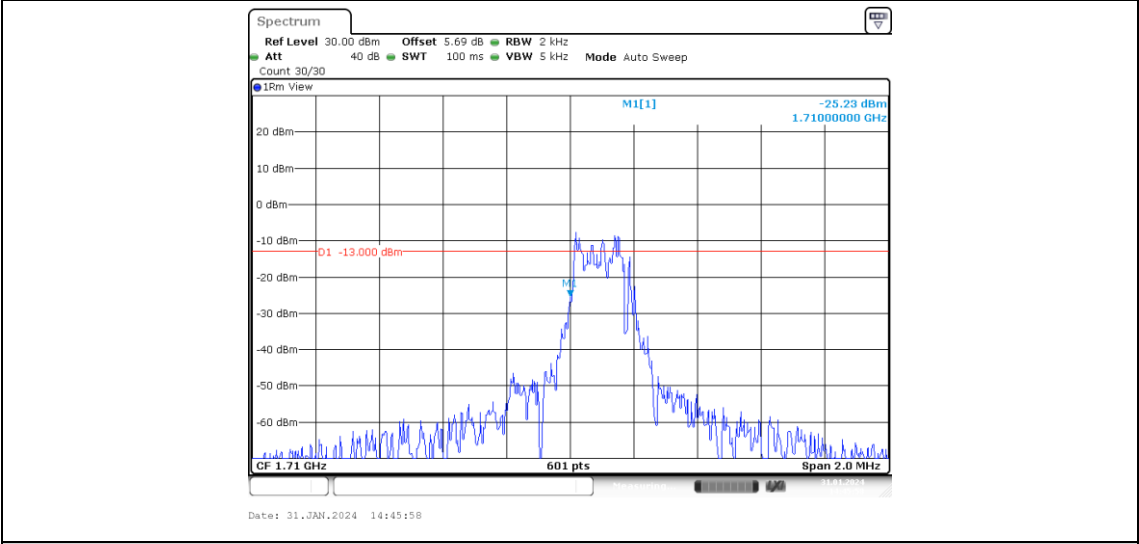
Band66-Stand-Alone-NaN-BPSK-132671-12@0-15kHz--24.32-PASS



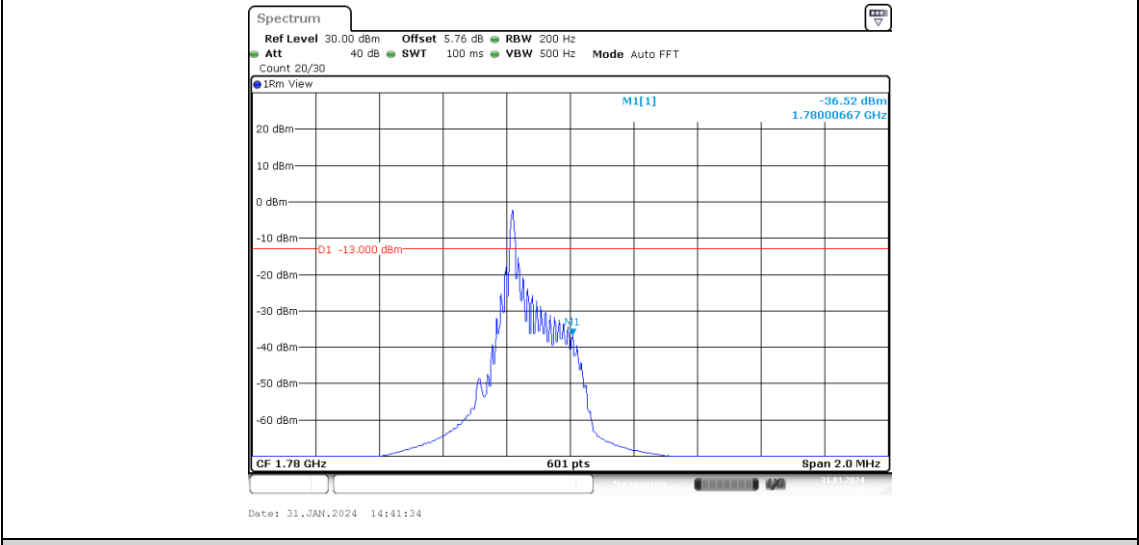
Band66-Stand-Alone-NaN-QPSK-131973-1@0-15kHz--18.88-PASS



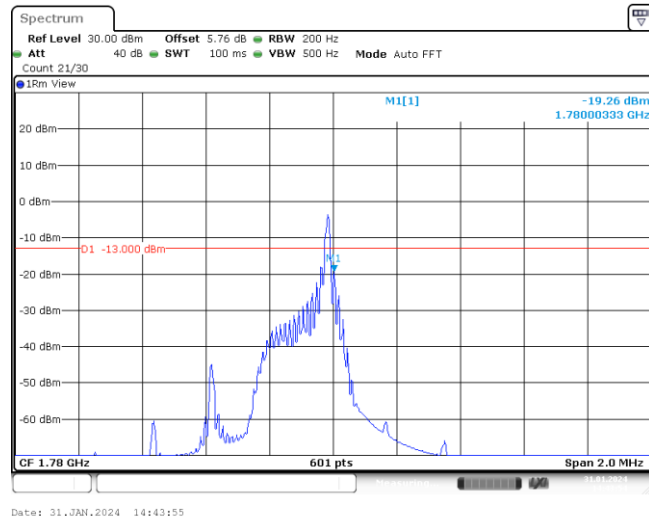
Band66-Stand-Alone-NaN-QPSK-131973-1@11-15kHz--37.13-PASS



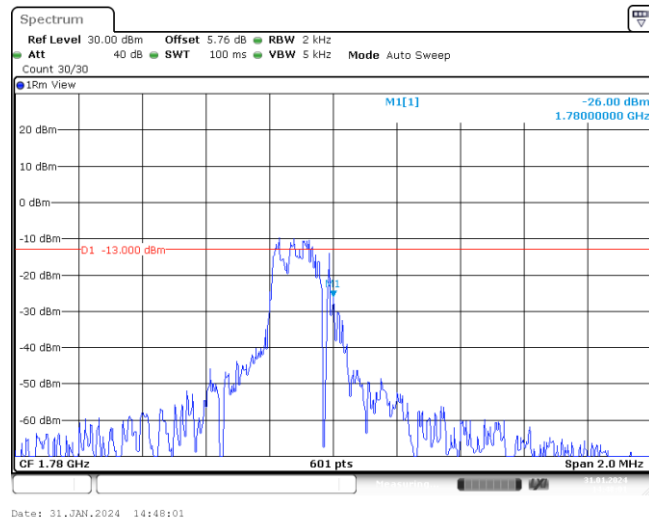
Band66-Stand-Alone-NaN-QPSK-131973-12@0-15kHz--25.23-PASS



Band66-Stand-Alone-NaN-QPSK-132671-1@0-15kHz--36.52-PASS



Band66-Stand-Alone-NaN-QPSK-132671-1@11-15kHz--19.26-PASS



Band66-Stand-Alone-NaN-QPSK-132671-12@0-15kHz--26.00-PASS

Appendix E: Conducted Spurious Emission

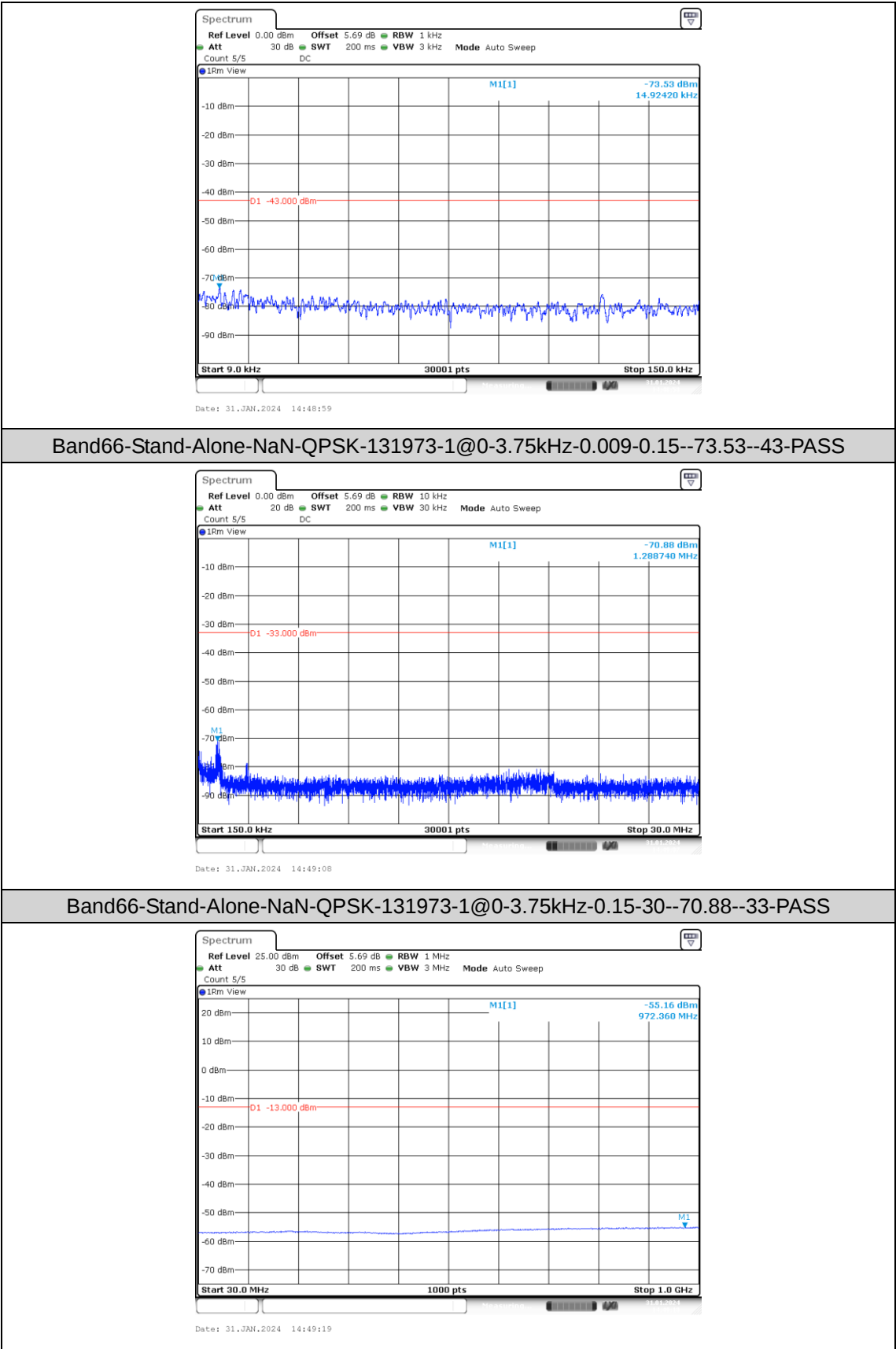
Test Result

Band	OpMode	SCS	BW	Modu	Channel	Tones	Freq Start [MHz]	Freq Stop [MHz]	Result (dBm)	Limit (dBm)	Verdict
Band6 6	Stand-Alone	3.75kHz	NaN	QPSK	131973	1@0	0.009	0.15	-73.53	-43	PASS
Band6 6	Stand-Alone	3.75kHz	NaN	QPSK	131973	1@0	0.15	30	-70.88	-33	PASS
Band6 6	Stand-Alone	3.75kHz	NaN	QPSK	131973	1@0	30	1000	-55.16	-13	PASS
Band6 6	Stand-Alone	3.75kHz	NaN	QPSK	131973	1@0	1000	2000 0	-44.22	-13	PASS
Band6 6	Stand-Alone	3.75kHz	NaN	QPSK	131973	1@47	0.009	0.15	-74.18	-43	PASS
Band6 6	Stand-Alone	3.75kHz	NaN	QPSK	131973	1@47	0.15	30	-69.27	-33	PASS
Band6 6	Stand-Alone	3.75kHz	NaN	QPSK	131973	1@47	30	1000	-55.09	-13	PASS
Band6 6	Stand-Alone	3.75kHz	NaN	QPSK	131973	1@47	1000	2000 0	-44.85	-13	PASS
Band6 6	Stand-Alone	3.75kHz	NaN	QPSK	132322	1@0	0.009	0.15	-74.9	-43	PASS
Band6 6	Stand-Alone	3.75kHz	NaN	QPSK	132322	1@0	0.15	30	-69.1	-33	PASS
Band6 6	Stand-Alone	3.75kHz	NaN	QPSK	132322	1@0	30	1000	-55.06	-13	PASS
Band6 6	Stand-Alone	3.75kHz	NaN	QPSK	132322	1@0	1000	2000 0	-44.04	-13	PASS
Band6 6	Stand-Alone	3.75kHz	NaN	QPSK	132322	1@47	0.009	0.15	-72.45	-43	PASS
Band6 6	Stand-Alone	3.75kHz	NaN	QPSK	132322	1@47	0.15	30	-69.55	-33	PASS
Band6 6	Stand-Alone	3.75kHz	NaN	QPSK	132322	1@47	30	1000	-55	-13	PASS
Band6 6	Stand-Alone	3.75kHz	NaN	QPSK	132322	1@47	1000	2000 0	-46.68	-13	PASS
Band6 6	Stand-Alone	3.75kHz	NaN	QPSK	132671	1@0	0.009	0.15	-73.84	-43	PASS

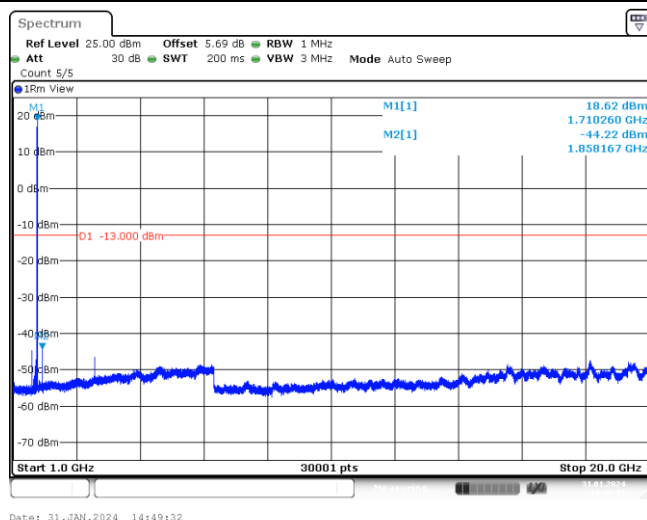
Band6 6	Stand-Alon e	3.75kHz	NaN	QPSK	132671	1@0	0.15	30	-64.7	-33	PASS
Band6 6	Stand-Alon e	3.75kHz	NaN	QPSK	132671	1@0	30	1000	-55.1	-13	PASS
Band6 6	Stand-Alon e	3.75kHz	NaN	QPSK	132671	1@0	1000	2000 0	-45.47	-13	PASS
Band6 6	Stand-Alon e	3.75kHz	NaN	QPSK	132671	1@47	0.009	0.15	-72.95	-43	PASS
Band6 6	Stand-Alon e	3.75kHz	NaN	QPSK	132671	1@47	0.15	30	-75.89	-33	PASS
Band6 6	Stand-Alon e	3.75kHz	NaN	QPSK	132671	1@47	30	1000	-55.04	-13	PASS
Band6 6	Stand-Alon e	3.75kHz	NaN	QPSK	132671	1@47	1000	2000 0	-44.78	-13	PASS
Band6 6	Stand-Alon e	15kHz	NaN	BPSK	131973	1@0	0.009	0.15	-74.96	-43	PASS
Band6 6	Stand-Alon e	15kHz	NaN	BPSK	131973	1@0	0.15	30	-69.31	-33	PASS
Band6 6	Stand-Alon e	15kHz	NaN	BPSK	131973	1@0	30	1000	-55.1	-13	PASS
Band6 6	Stand-Alon e	15kHz	NaN	BPSK	131973	1@0	1000	2000 0	-47.14	-13	PASS
Band6 6	Stand-Alon e	15kHz	NaN	BPSK	131973	1@11	0.009	0.15	-73.97	-43	PASS
Band6 6	Stand-Alon e	15kHz	NaN	BPSK	131973	1@11	0.15	30	-63.74	-33	PASS
Band6 6	Stand-Alon e	15kHz	NaN	BPSK	131973	1@11	30	1000	-55.12	-13	PASS
Band6 6	Stand-Alon e	15kHz	NaN	BPSK	131973	1@11	1000	2000 0	-43.15	-13	PASS
Band6 6	Stand-Alon e	15kHz	NaN	BPSK	132322	1@0	0.009	0.15	-73.57	-43	PASS
Band6 6	Stand-Alon e	15kHz	NaN	BPSK	132322	1@0	0.15	30	-64.21	-33	PASS
Band6 6	Stand-Alon e	15kHz	NaN	BPSK	132322	1@0	30	1000	-54.99	-13	PASS
Band6 6	Stand-Alon e	15kHz	NaN	BPSK	132322	1@0	1000	2000 0	-45.2	-13	PASS
Band6 6	Stand-Alon e	15kHz	NaN	BPSK	132322	1@11	0.009	0.15	-73.13	-43	PASS
Band6 6	Stand-Alon e	15kHz	NaN	BPSK	132322	1@11	0.15	30	-67.81	-33	PASS
Band6 6	Stand-Alon	15kHz	NaN	BPSK	132322	1@11	30	1000	-55.03	-13	PASS

6	e										
Band6 6	Stand-Alon e	15kHz	NaN	BPSK	132322	1@11	1000	2000 0	-45.4	-13	PASS
Band6 6	Stand-Alon e	15kHz	NaN	BPSK	132671	1@0	0.009	0.15	-73.78	-43	PASS
Band6 6	Stand-Alon e	15kHz	NaN	BPSK	132671	1@0	0.15	30	-66.8	-33	PASS
Band6 6	Stand-Alon e	15kHz	NaN	BPSK	132671	1@0	30	1000	-55.13	-13	PASS
Band6 6	Stand-Alon e	15kHz	NaN	BPSK	132671	1@0	1000	2000 0	-46.67	-13	PASS
Band6 6	Stand-Alon e	15kHz	NaN	BPSK	132671	1@11	0.009	0.15	-73.48	-43	PASS
Band6 6	Stand-Alon e	15kHz	NaN	BPSK	132671	1@11	0.15	30	-67.51	-33	PASS
Band6 6	Stand-Alon e	15kHz	NaN	BPSK	132671	1@11	30	1000	-55.05	-13	PASS
Band6 6	Stand-Alon e	15kHz	NaN	BPSK	132671	1@11	1000	2000 0	-45.41	-13	PASS
Band6 6	Stand-Alon e	15kHz	NaN	QPSK	131973	12@0	0.009	0.15	-74.69	-43	PASS
Band6 6	Stand-Alon e	15kHz	NaN	QPSK	131973	12@0	0.15	30	-68.7	-33	PASS
Band6 6	Stand-Alon e	15kHz	NaN	QPSK	131973	12@0	30	1000	-55.07	-13	PASS
Band6 6	Stand-Alon e	15kHz	NaN	QPSK	131973	12@0	1000	2000 0	-46.95	-13	PASS
Band6 6	Stand-Alon e	15kHz	NaN	QPSK	132322	12@0	0.009	0.15	-73.21	-43	PASS
Band6 6	Stand-Alon e	15kHz	NaN	QPSK	132322	12@0	0.15	30	-70.17	-33	PASS
Band6 6	Stand-Alon e	15kHz	NaN	QPSK	132322	12@0	30	1000	-55	-13	PASS
Band6 6	Stand-Alon e	15kHz	NaN	QPSK	132322	12@0	1000	2000 0	-47.62	-13	PASS
Band6 6	Stand-Alon e	15kHz	NaN	QPSK	132671	12@0	0.009	0.15	-73.06	-43	PASS
Band6 6	Stand-Alon e	15kHz	NaN	QPSK	132671	12@0	0.15	30	-71.96	-33	PASS
Band6 6	Stand-Alon e	15kHz	NaN	QPSK	132671	12@0	30	1000	-55.1	-13	PASS
Band6 6	Stand-Alon e	15kHz	NaN	QPSK	132671	12@0	1000	2000 0	-47.33	-13	PASS

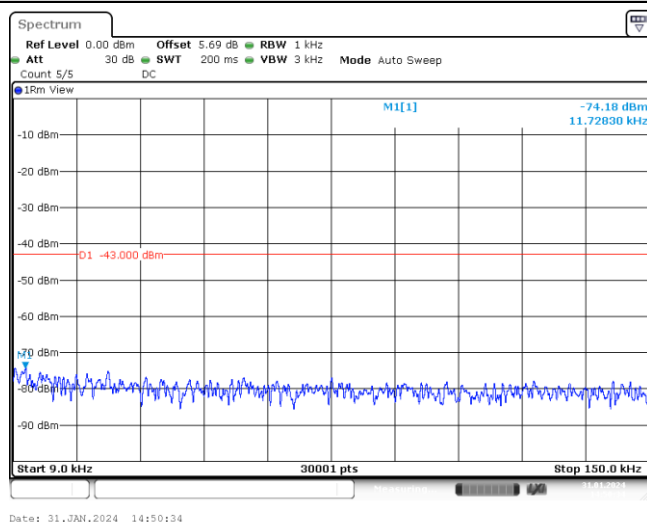
Test Graphs



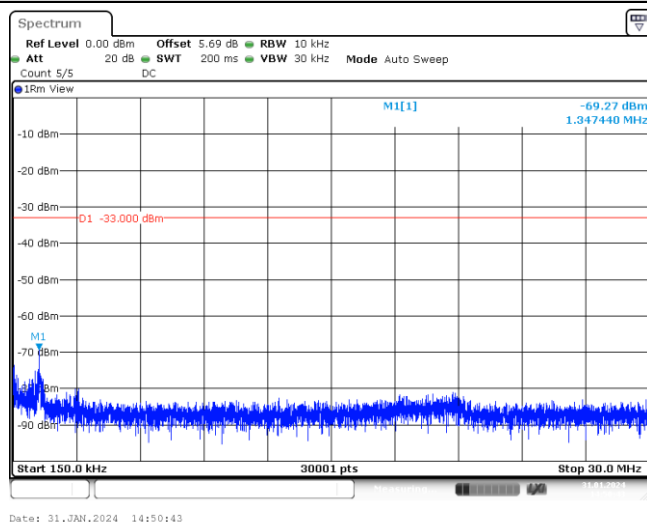
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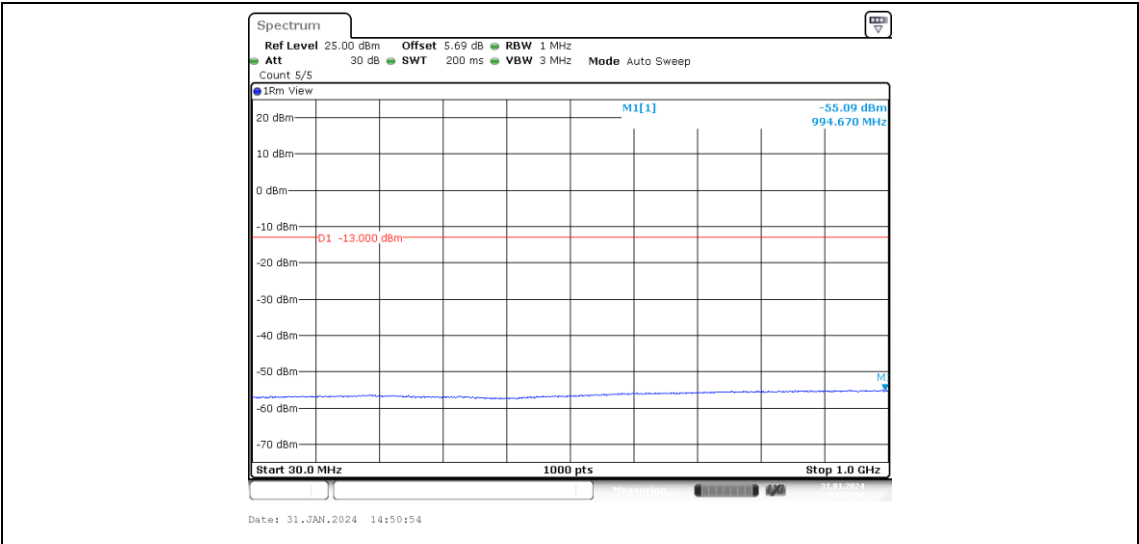
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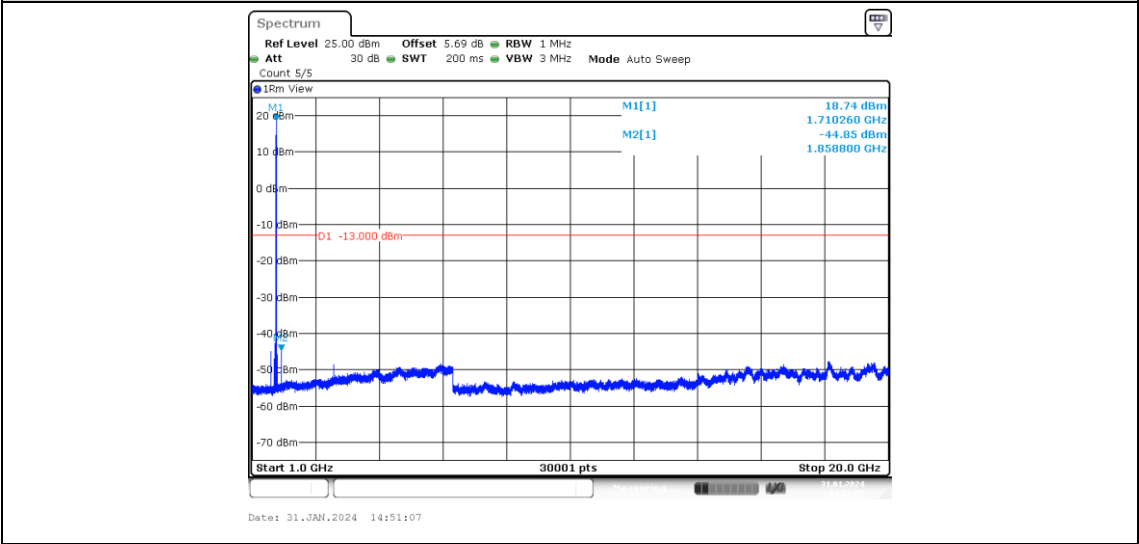
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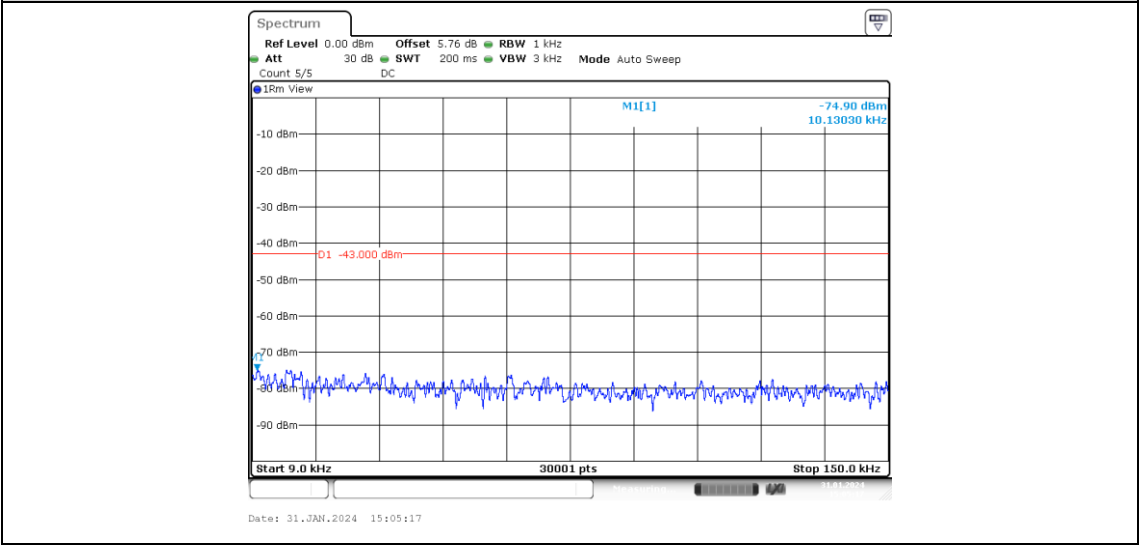
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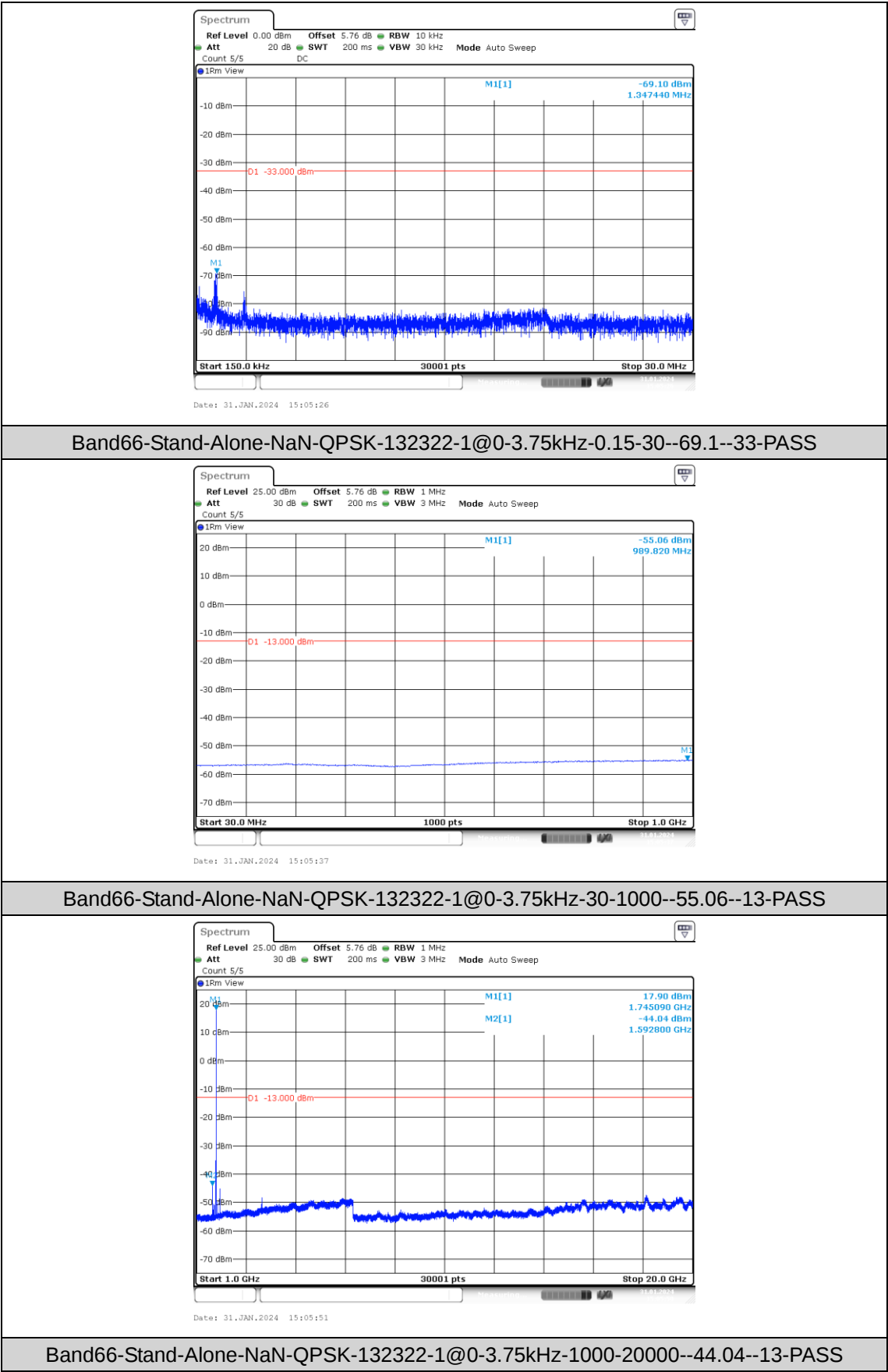
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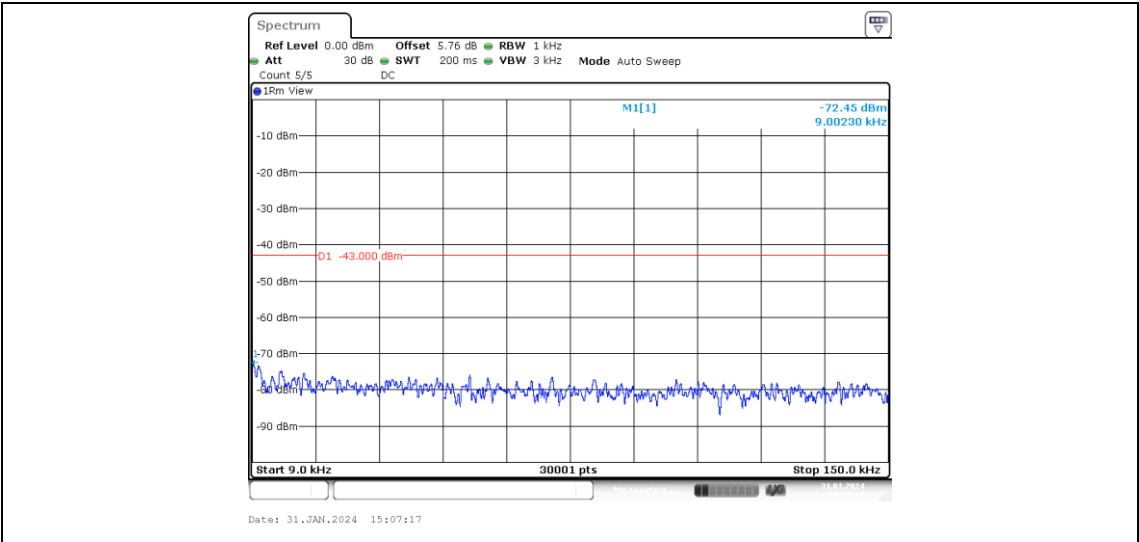


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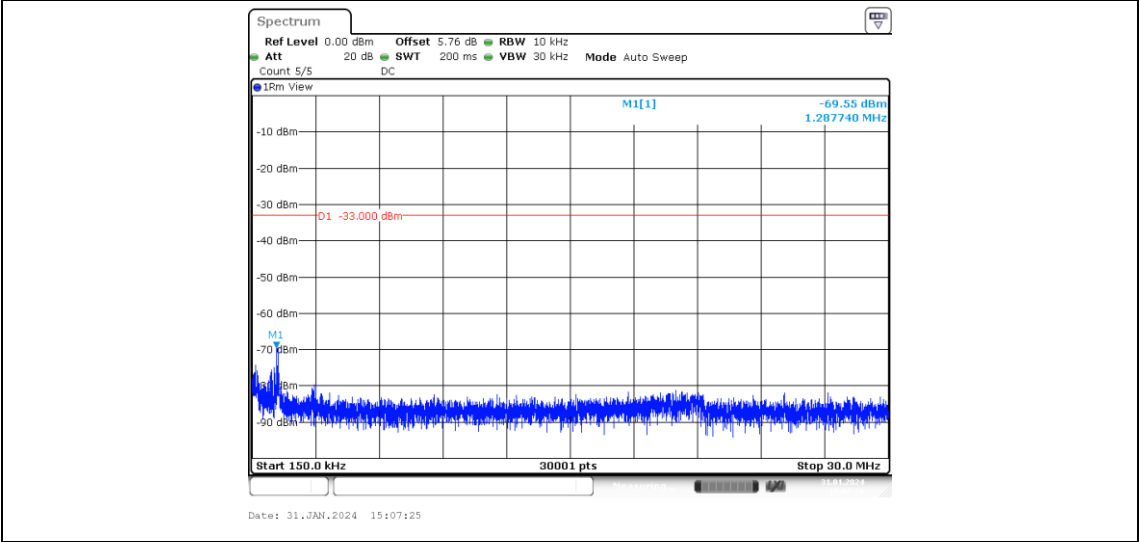


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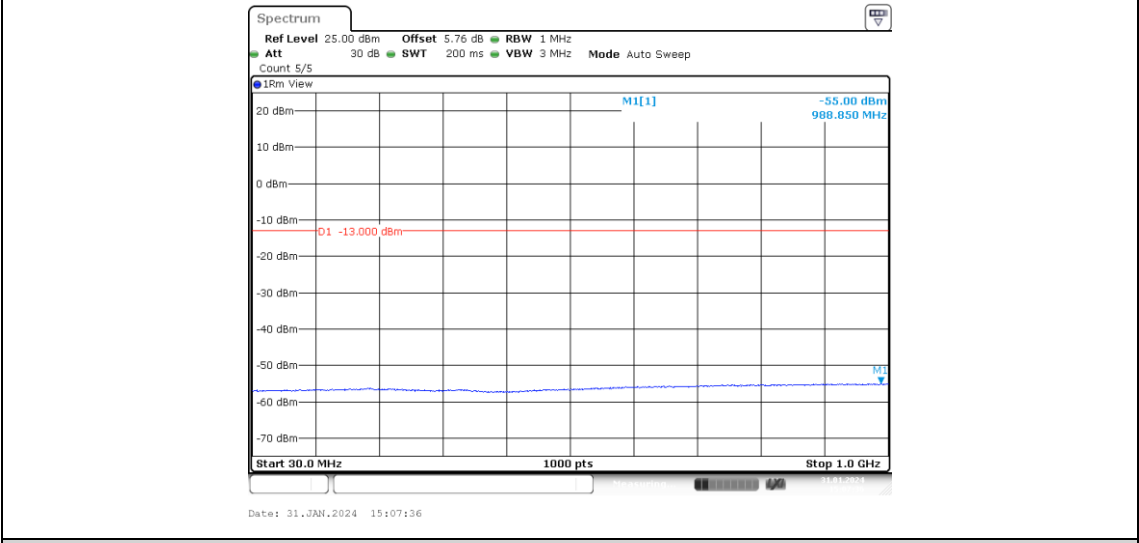




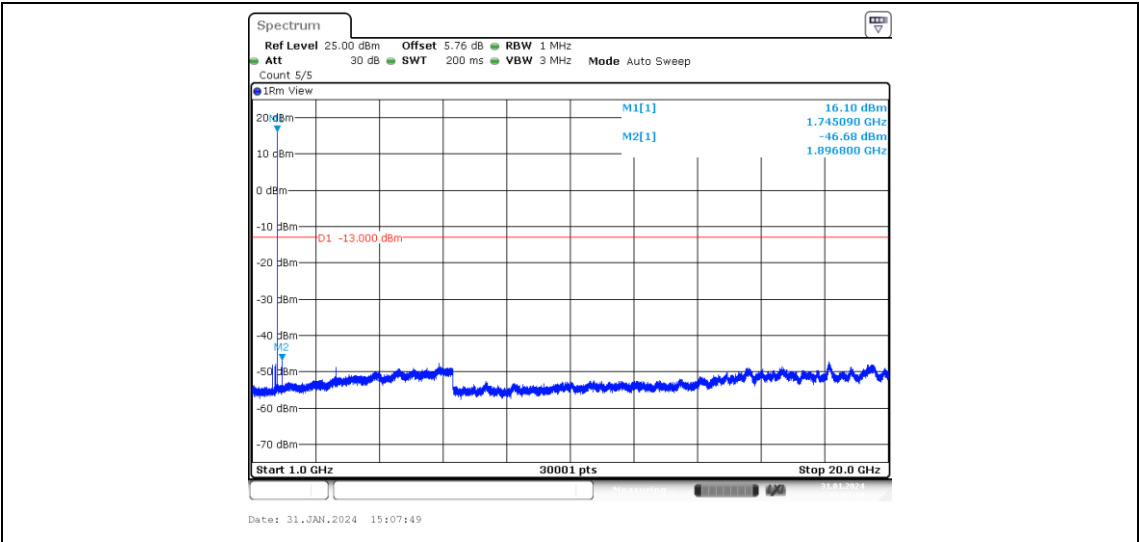
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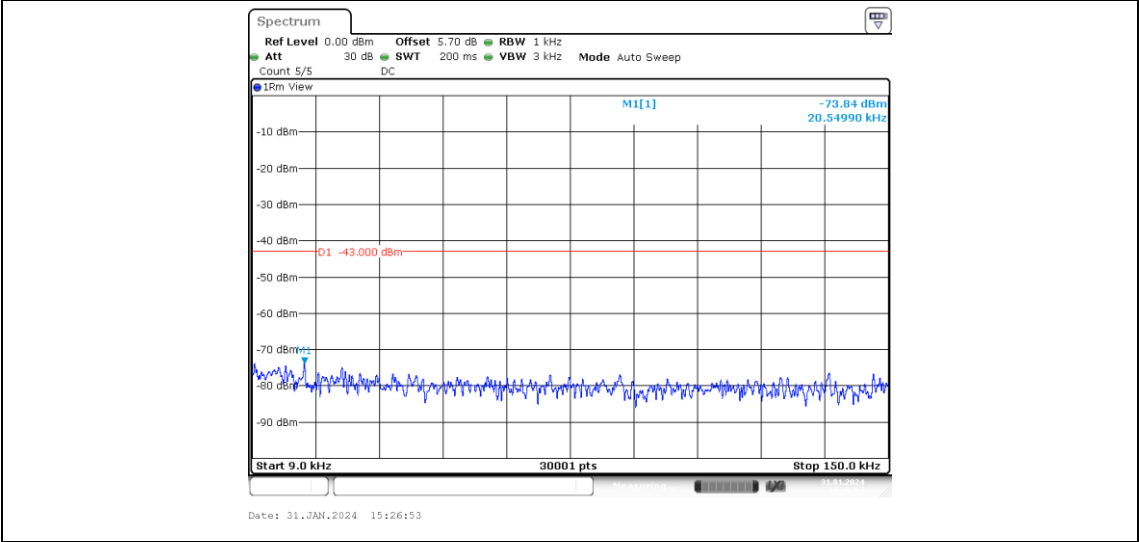
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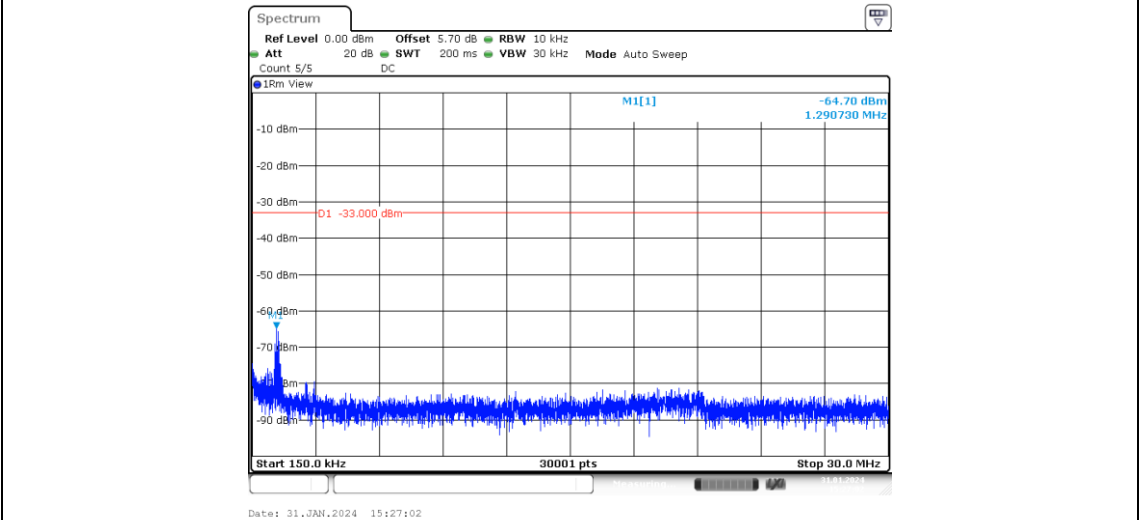
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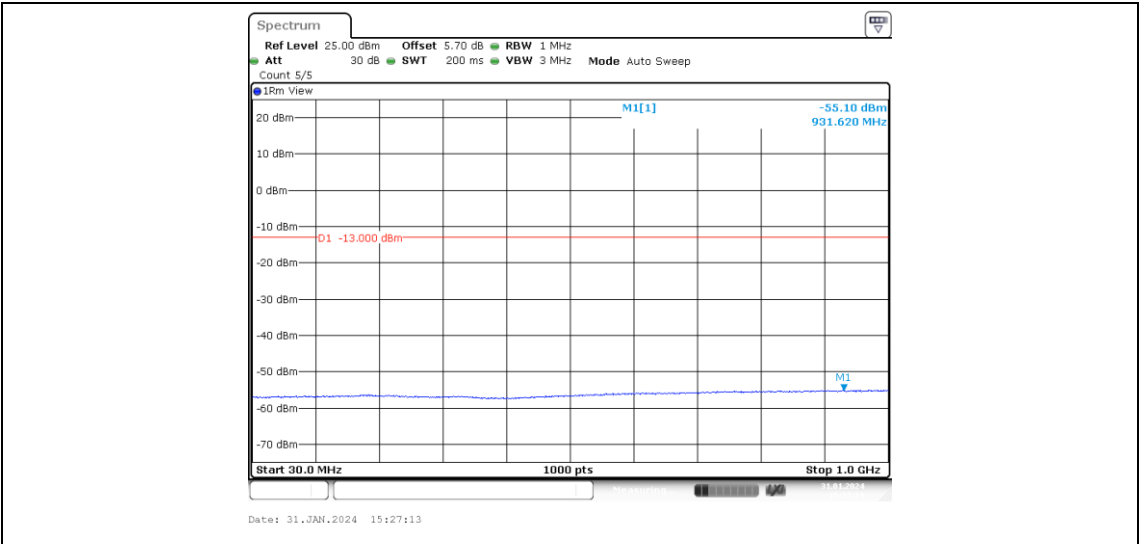
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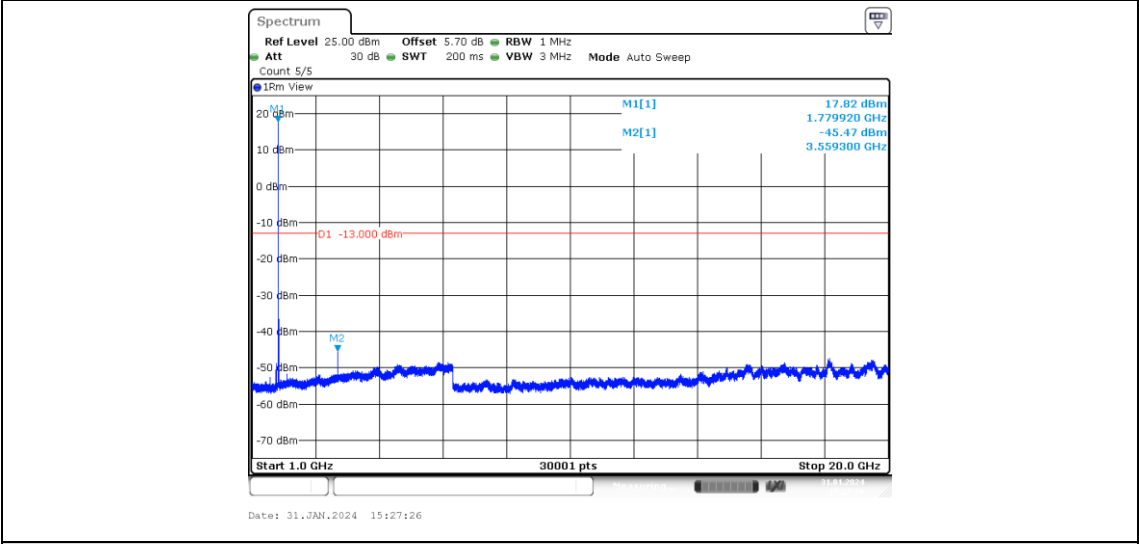
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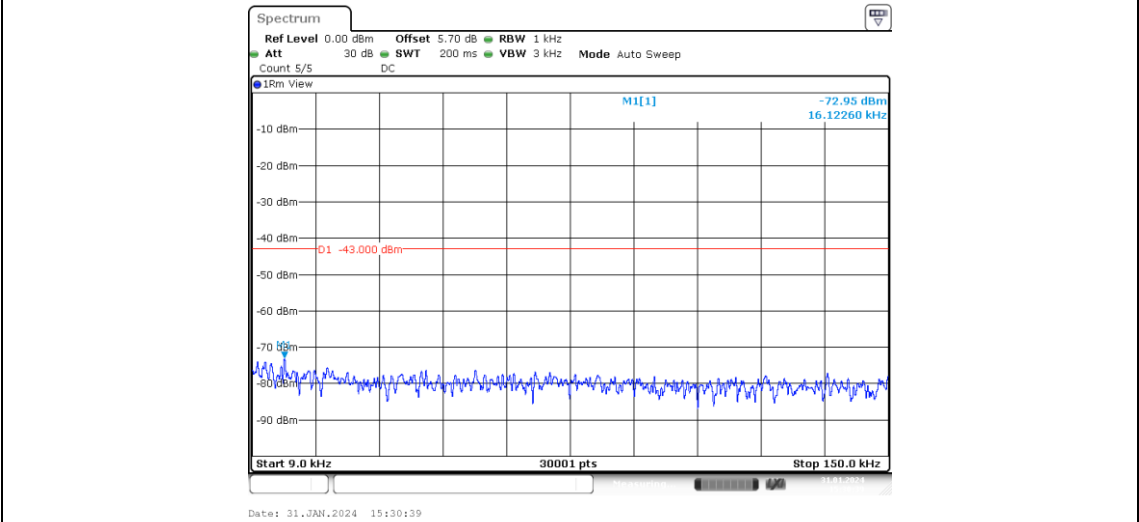
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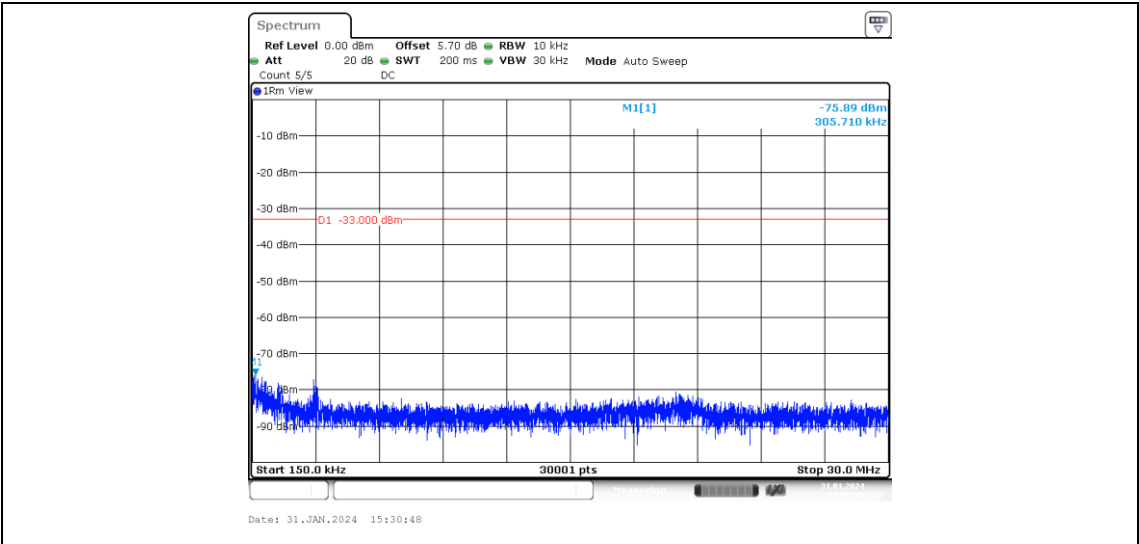
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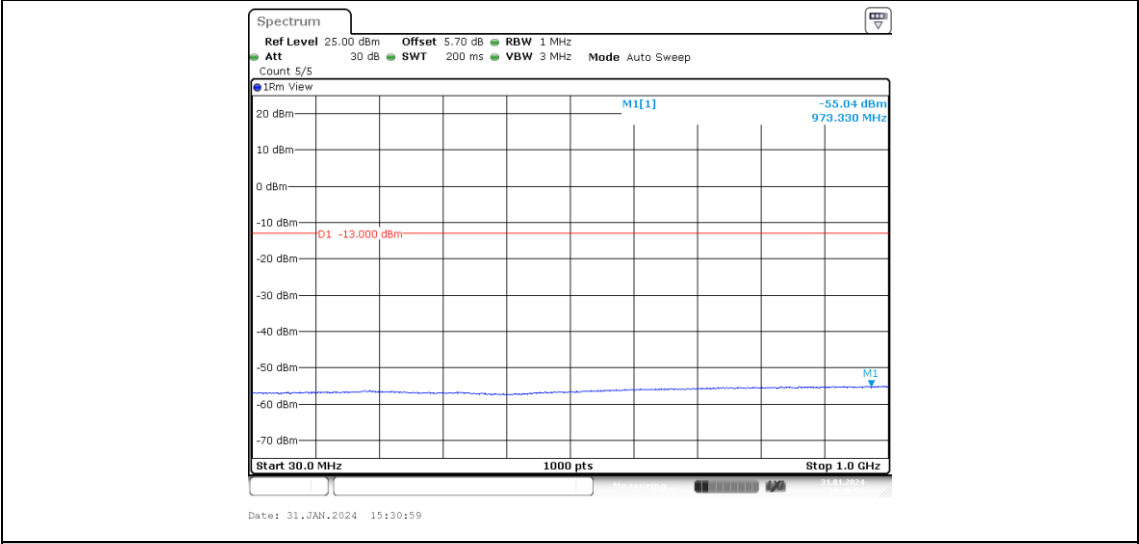
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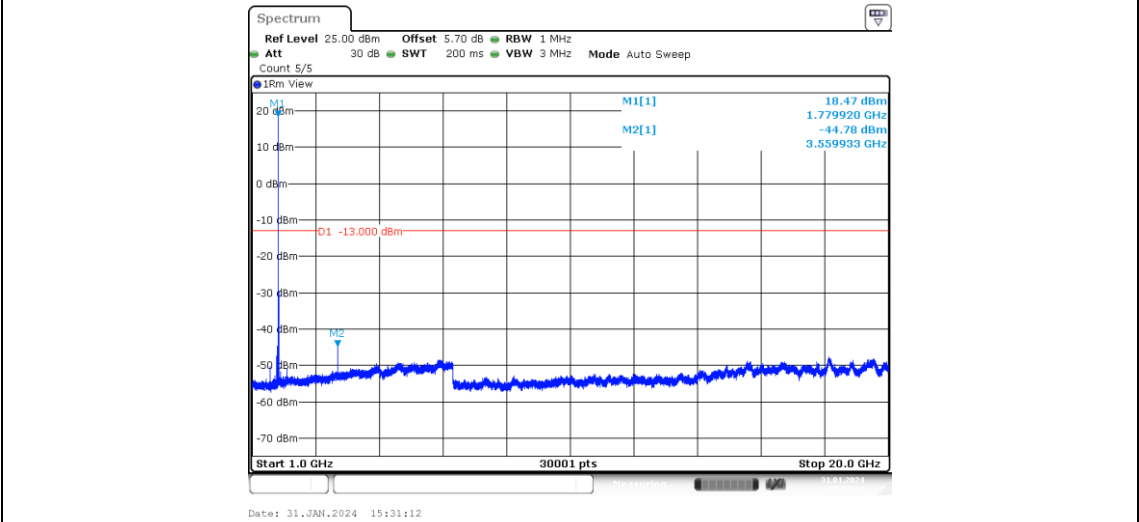
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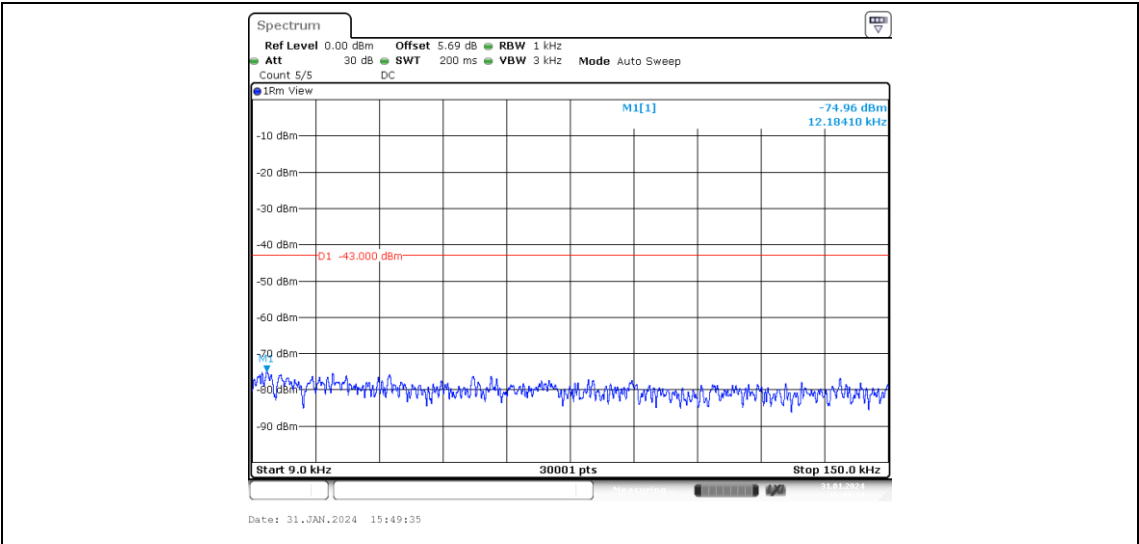
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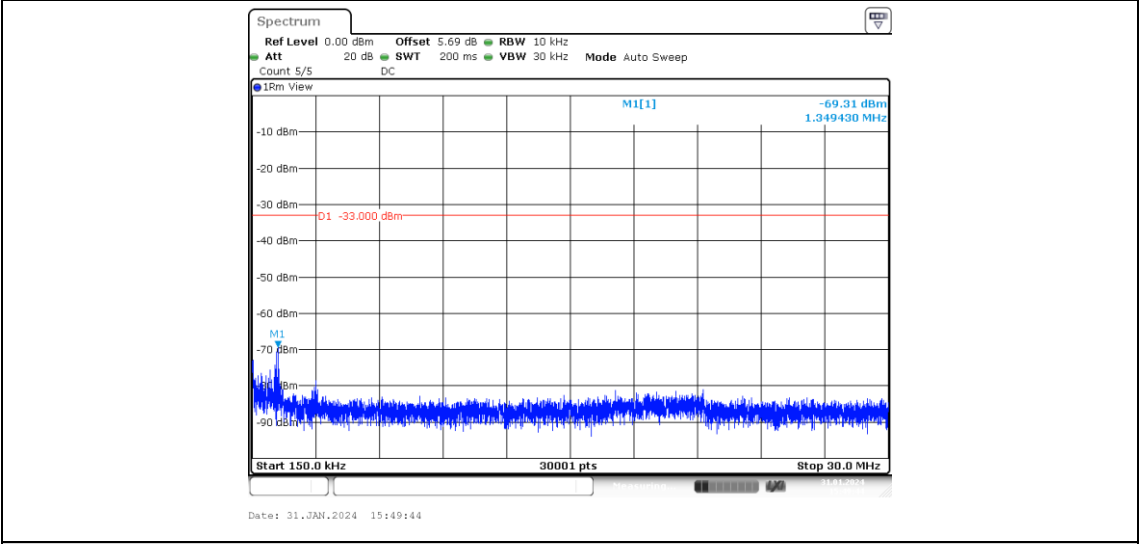
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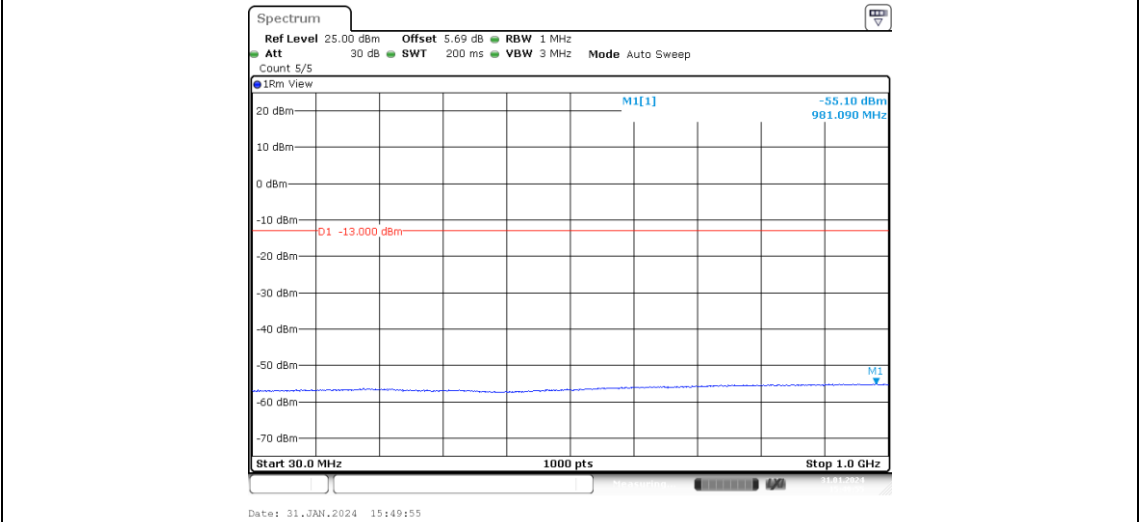
Band66-Stand-Alone-NaN-QPSK-132671-1@47-3.75kHz-1000-20000--44.78--13-PASS



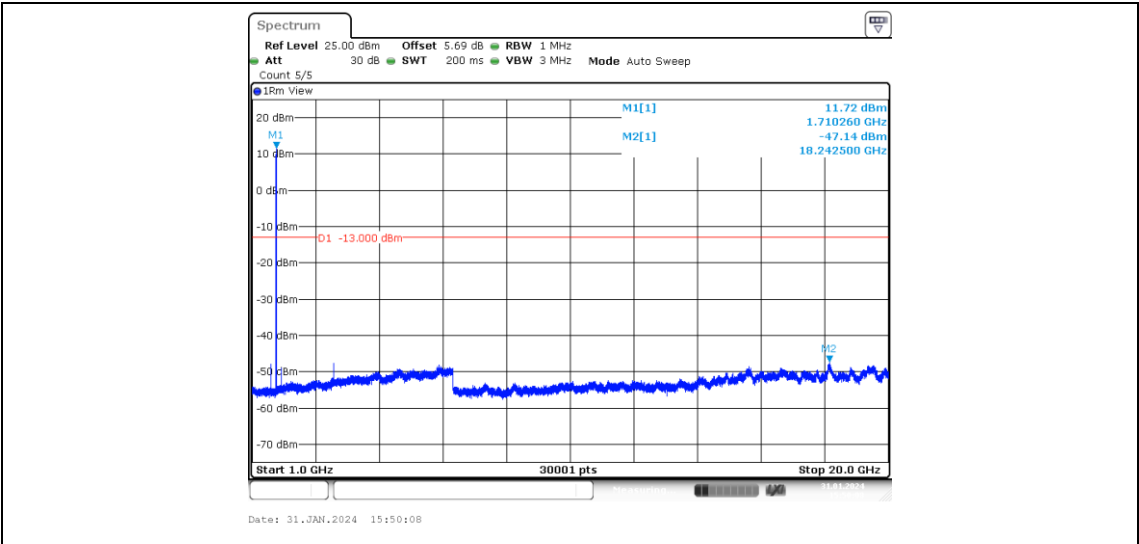
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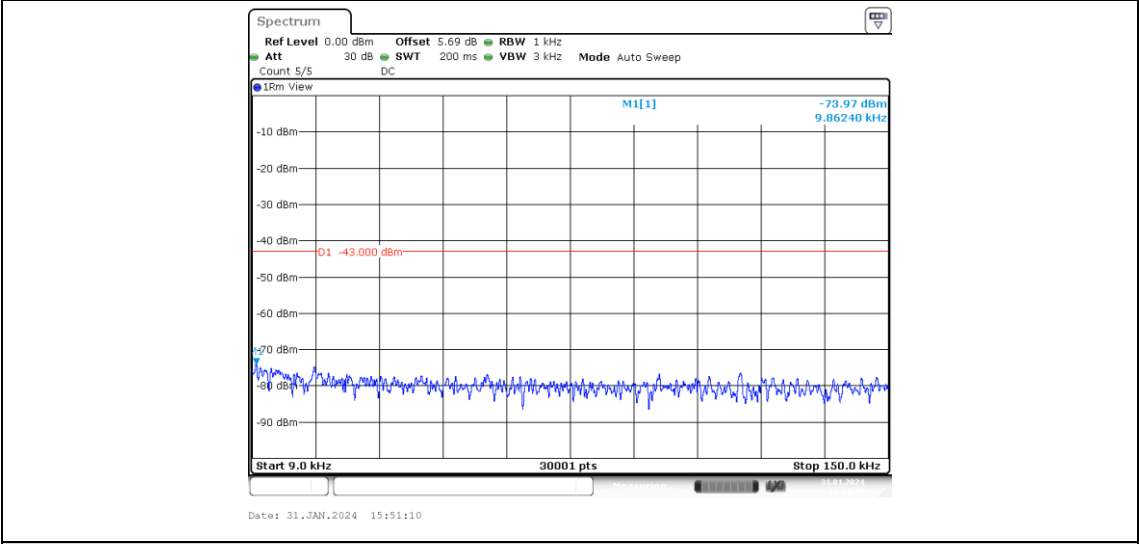
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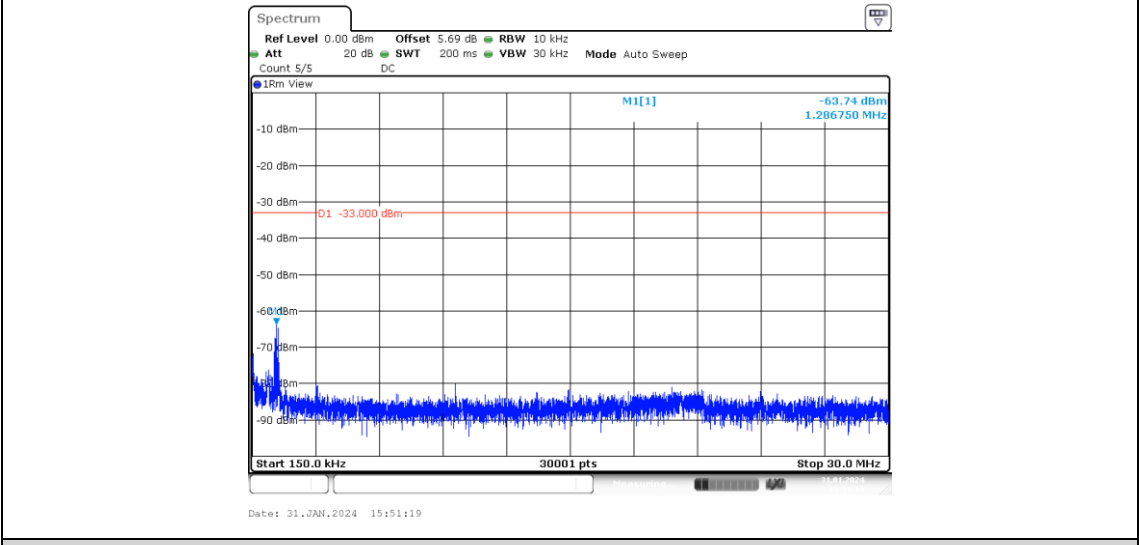
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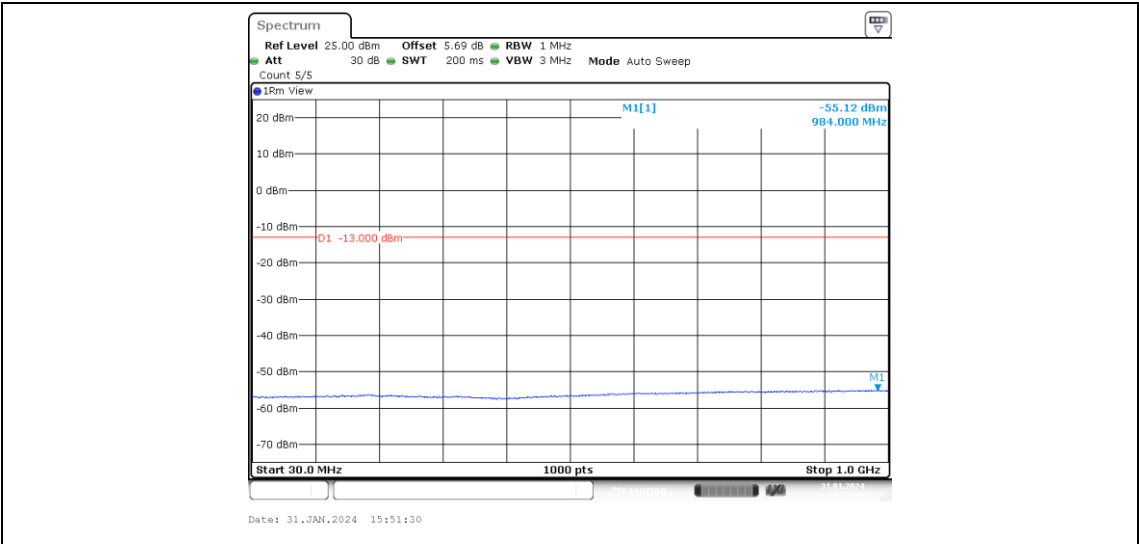
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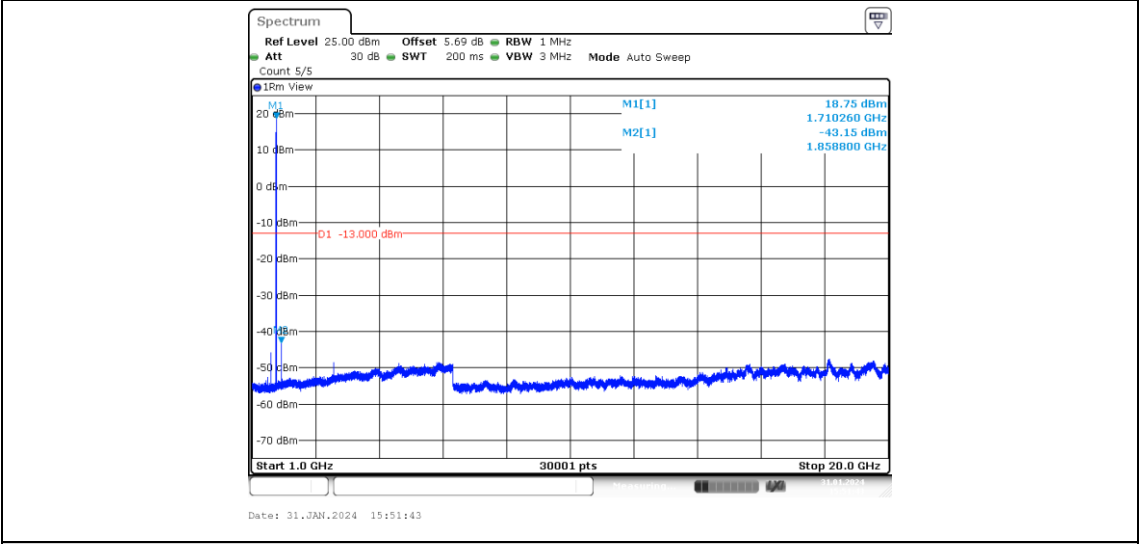
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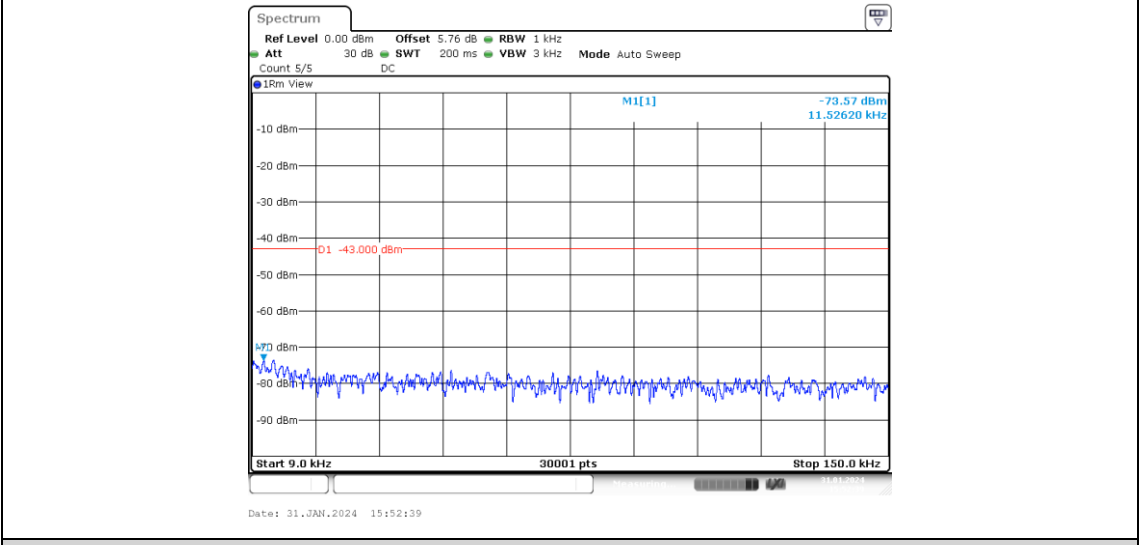
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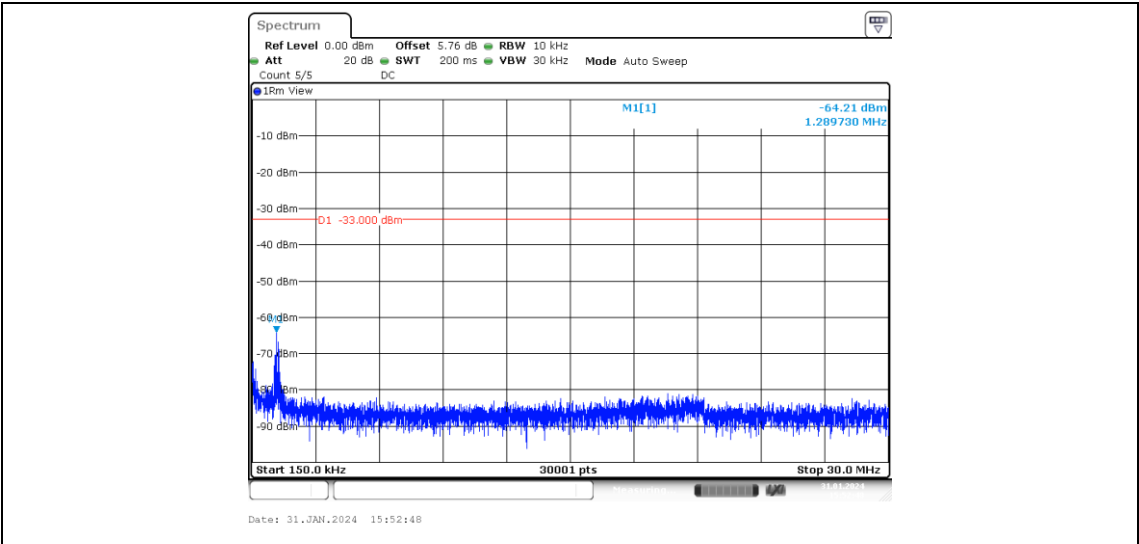
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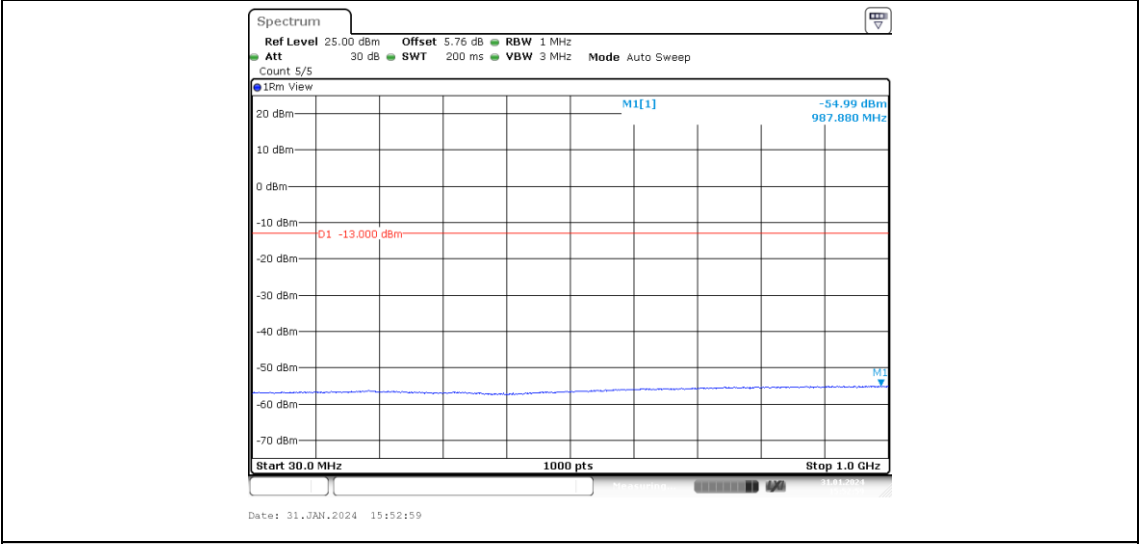
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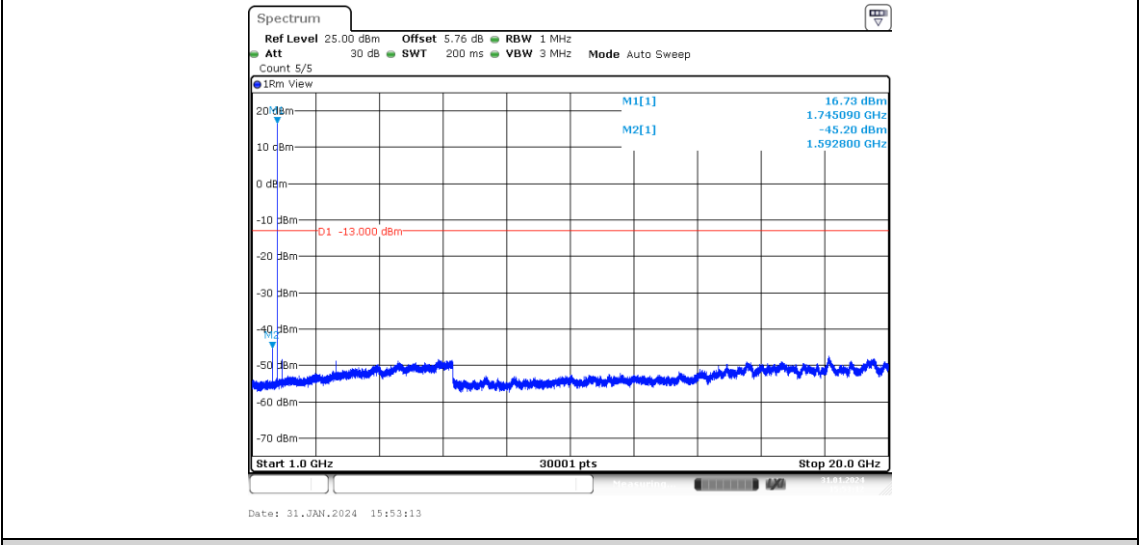
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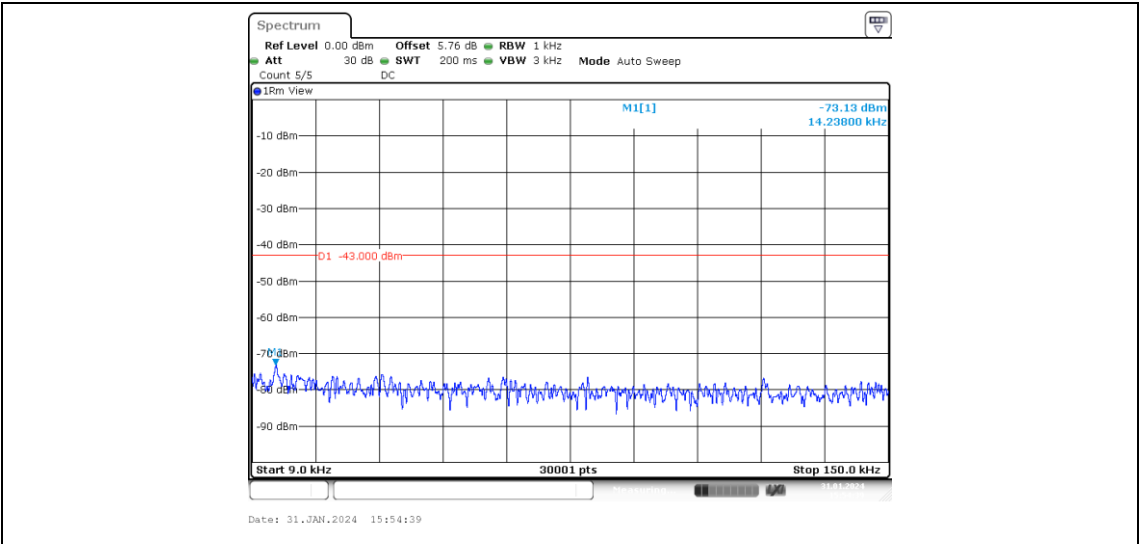
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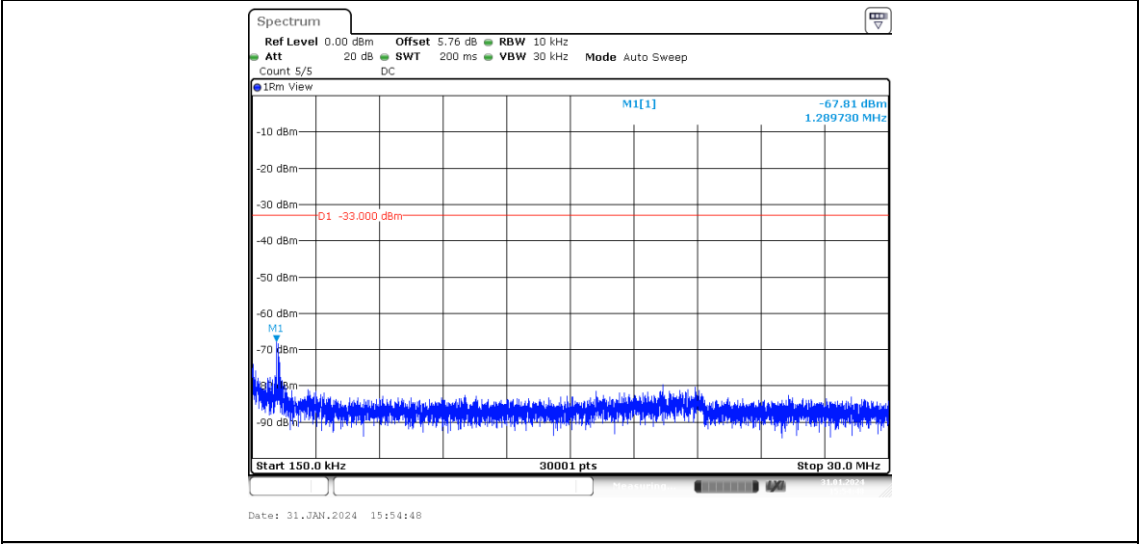
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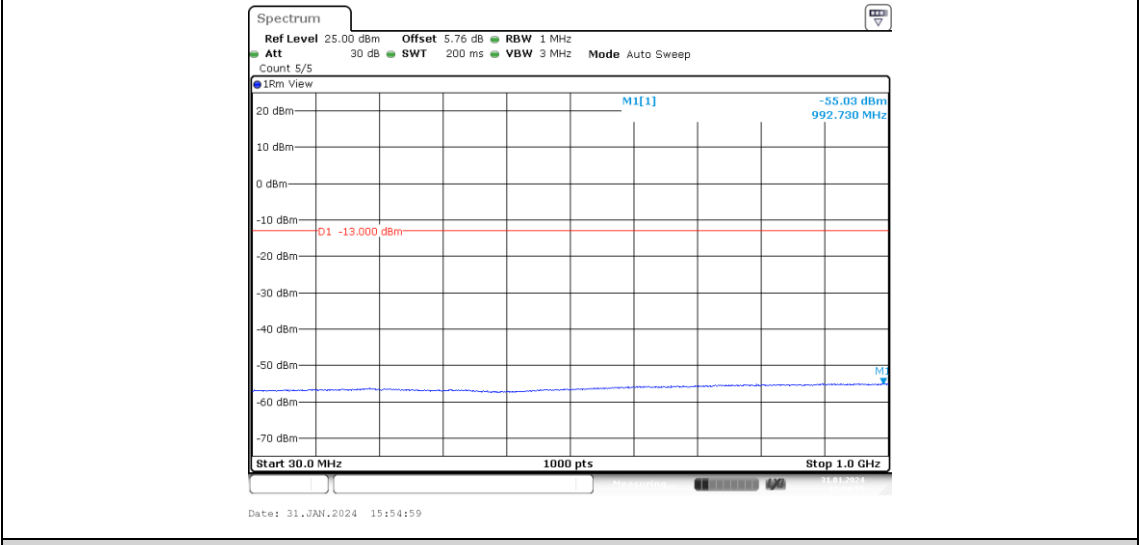
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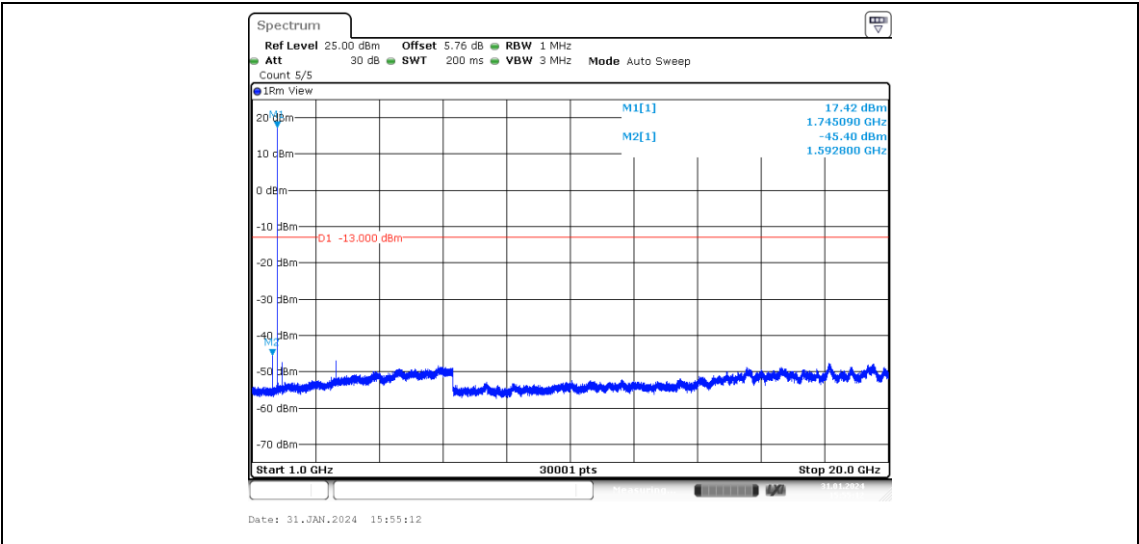
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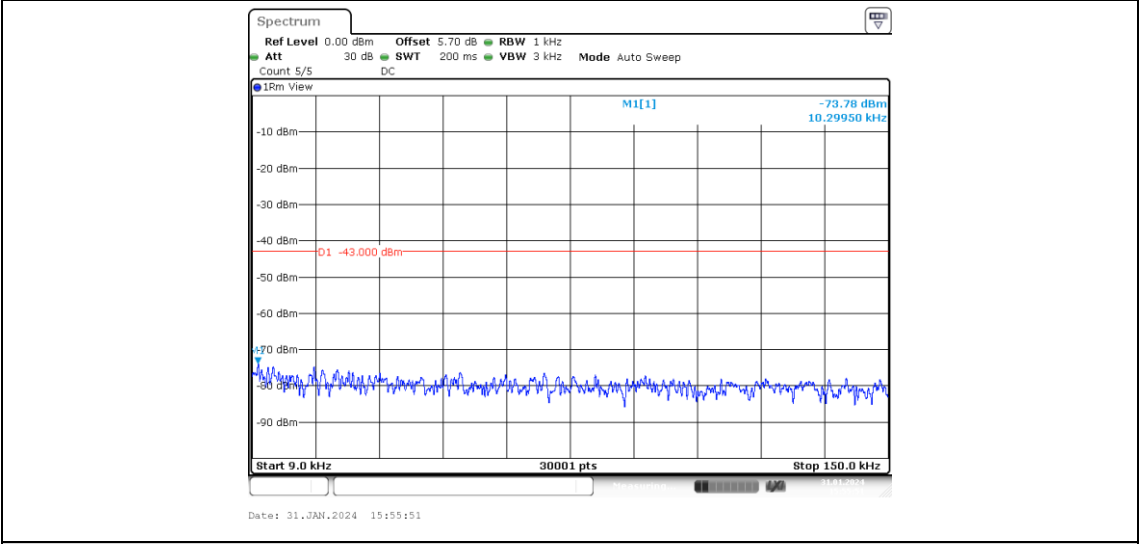
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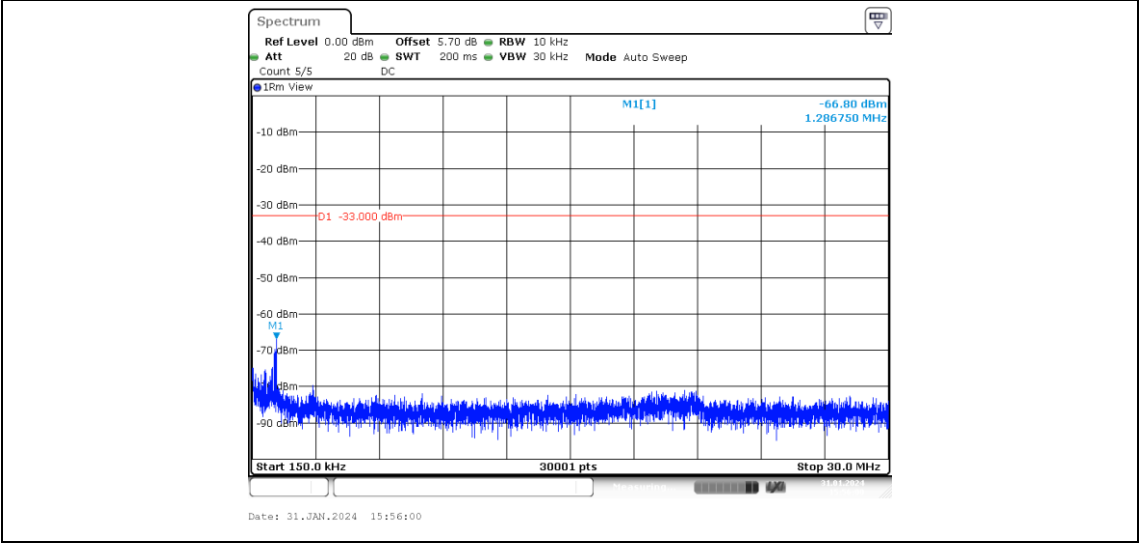
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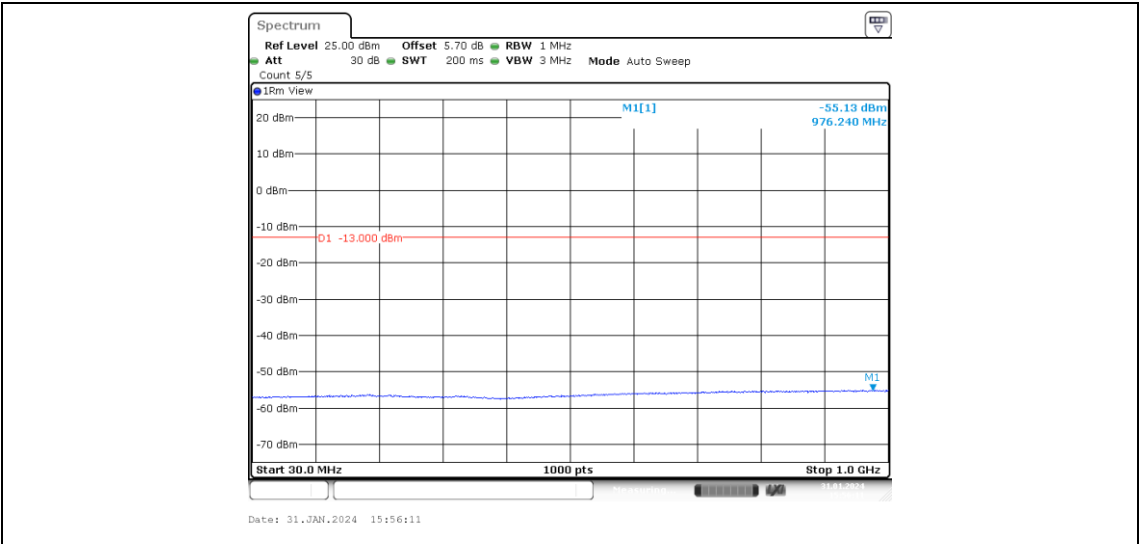
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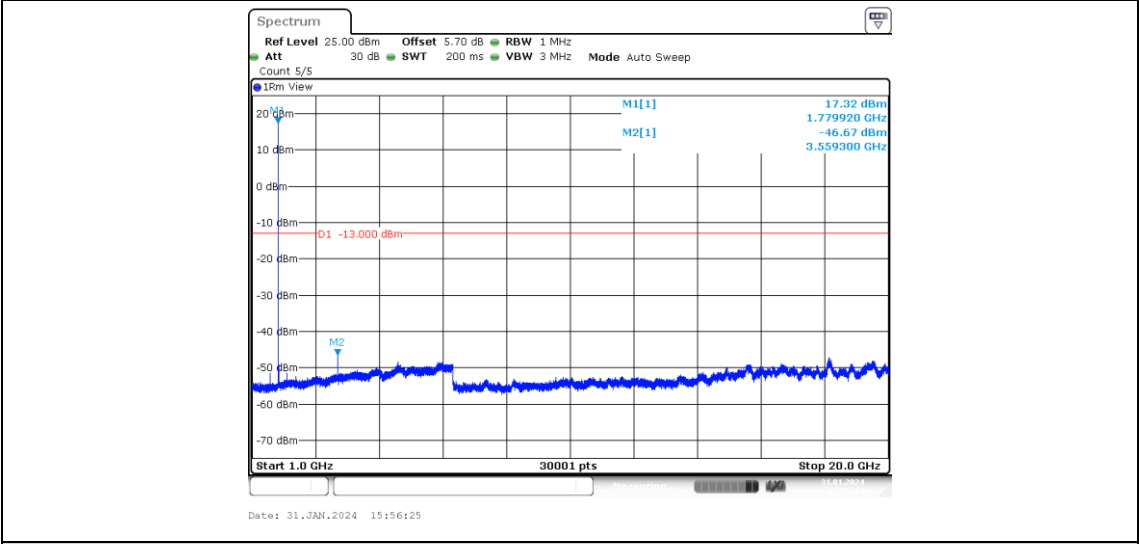
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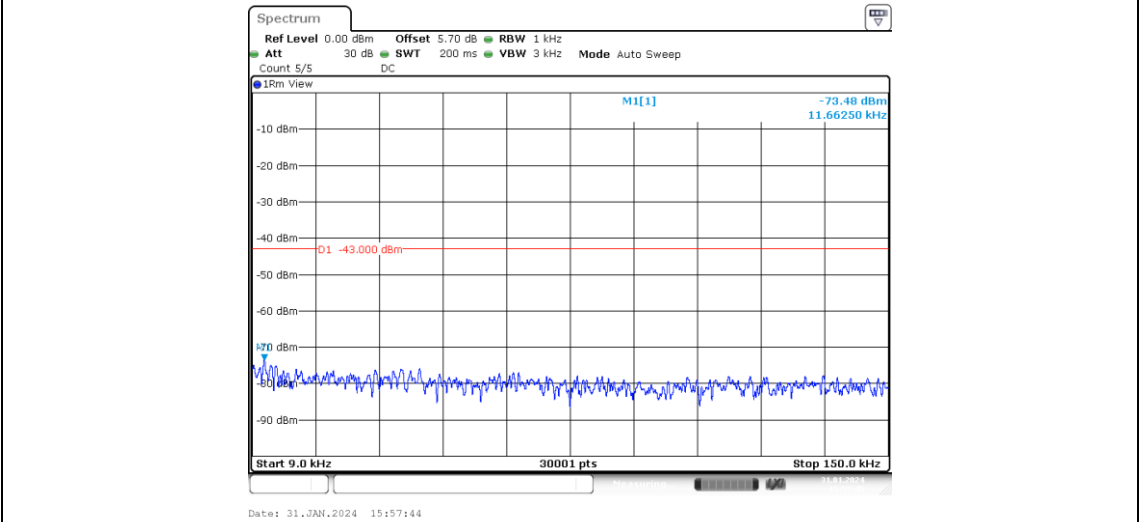
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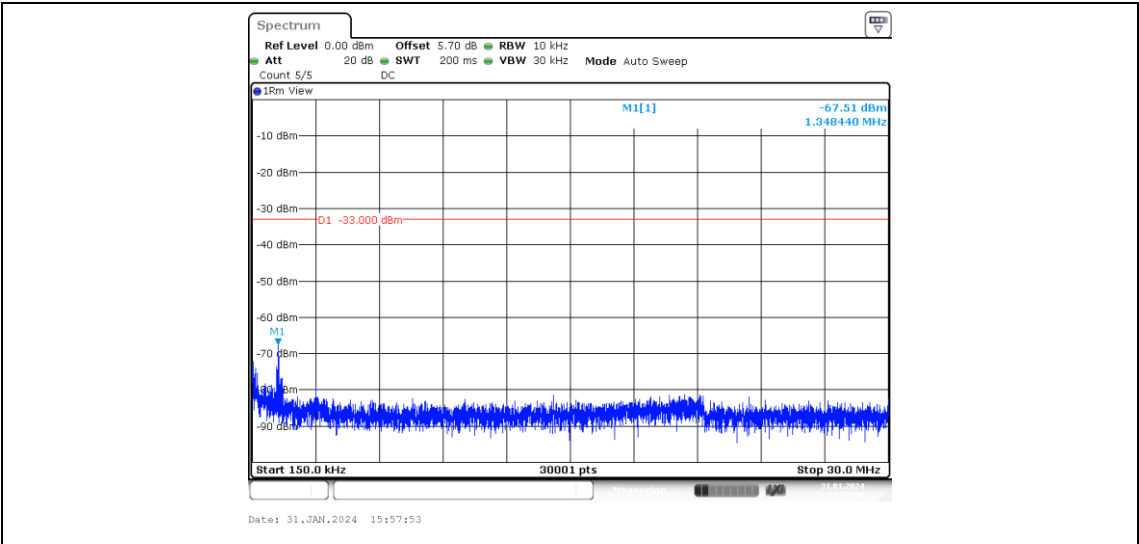
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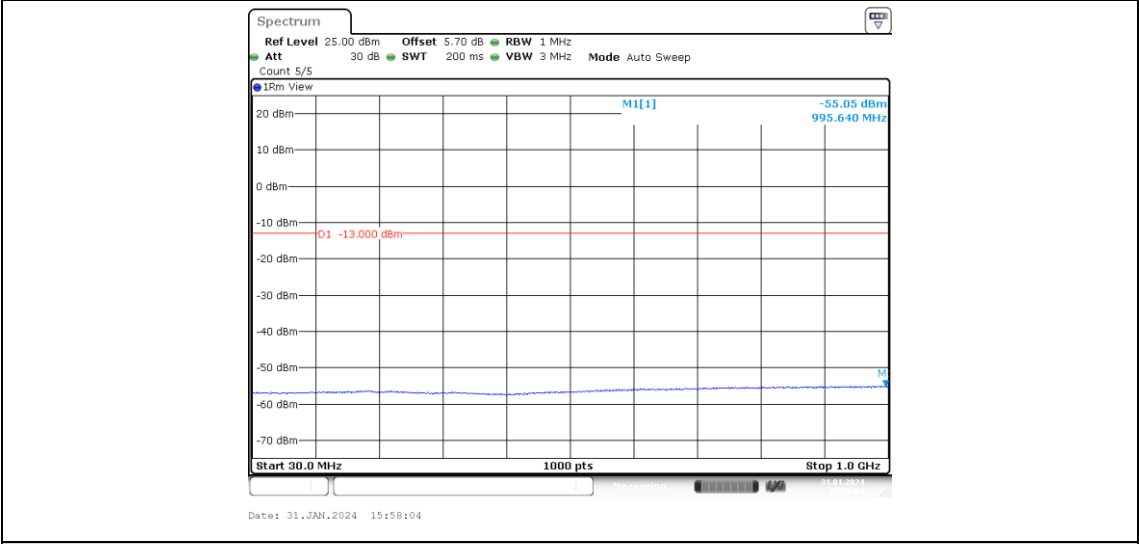
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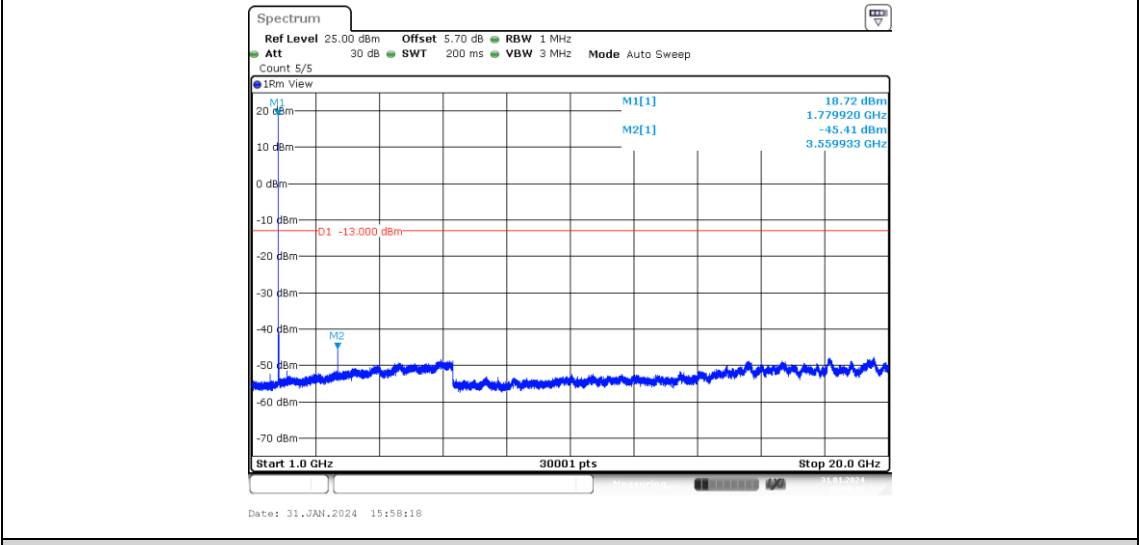
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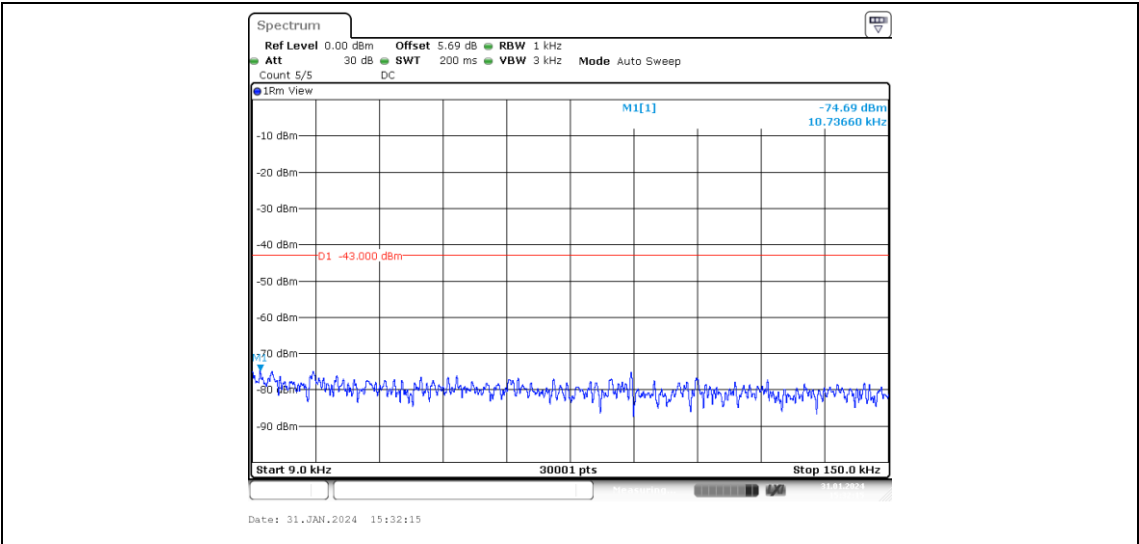
Band66-Stand-Alone-NaN-BPSK-132671-1@11-15kHz-0.15-30--67.51--33-PASS



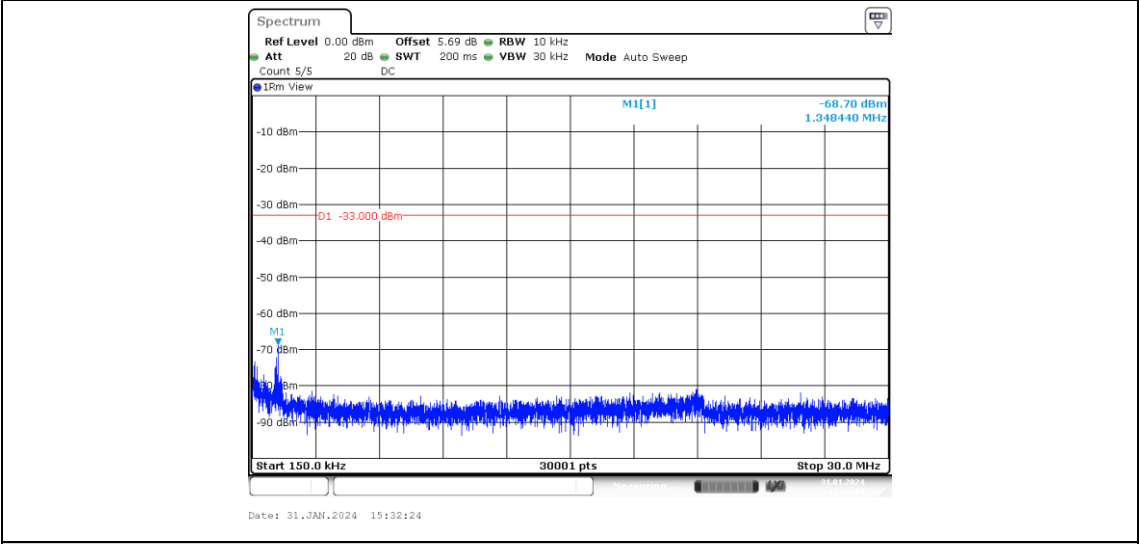
Band66-Stand-Alone-NaN-BPSK-132671-1@11-15kHz-30-1000--55.05--13-PASS



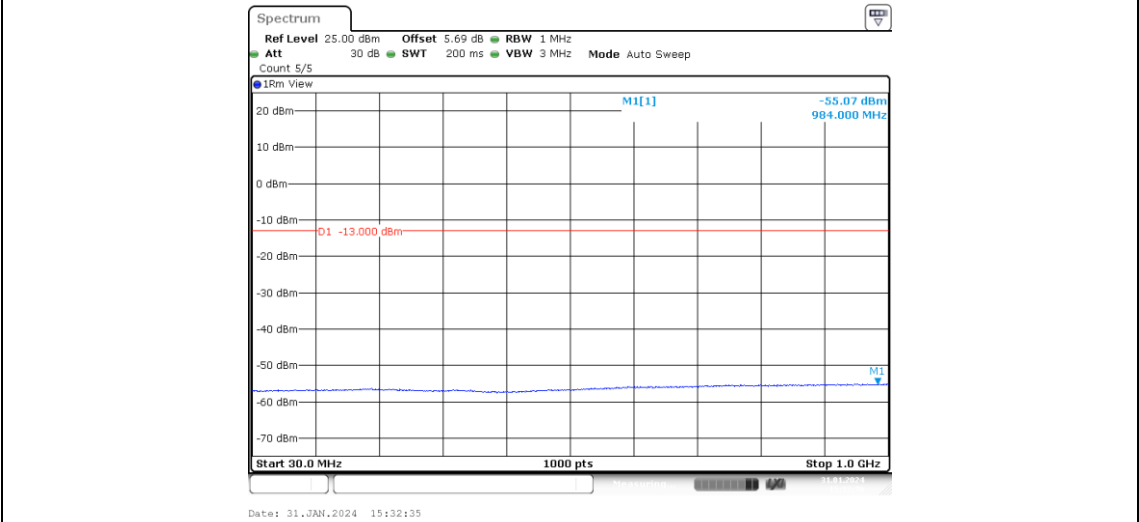
Band66-Stand-Alone-NaN-BPSK-132671-1@11-15kHz-1000-20000--45.41--13-PASS



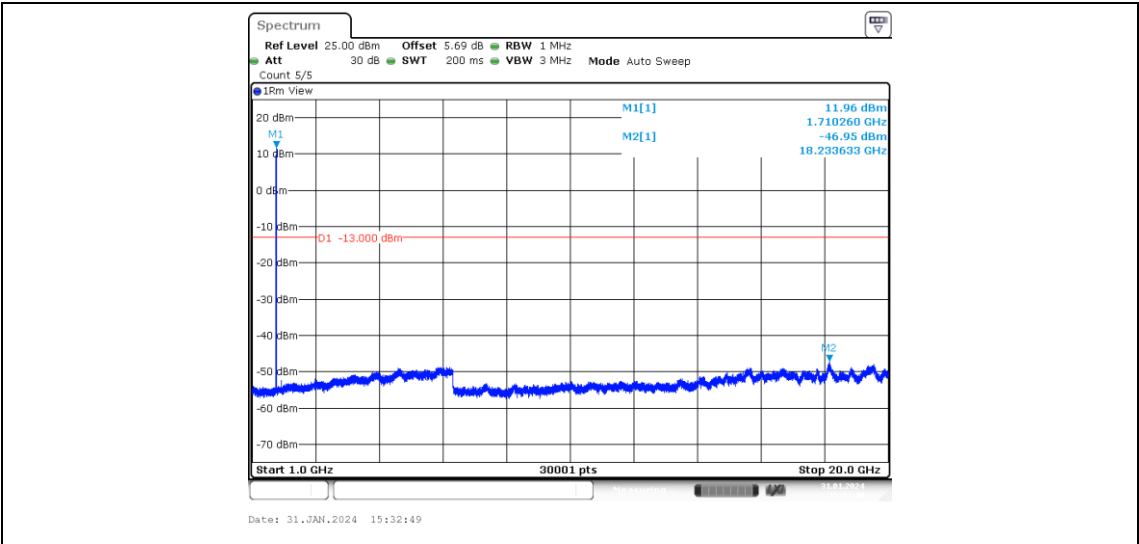
Band66-Stand-Alone-NaN-QPSK-131973-12@0-15kHz-0.009-0.15--74.69--43-PASS



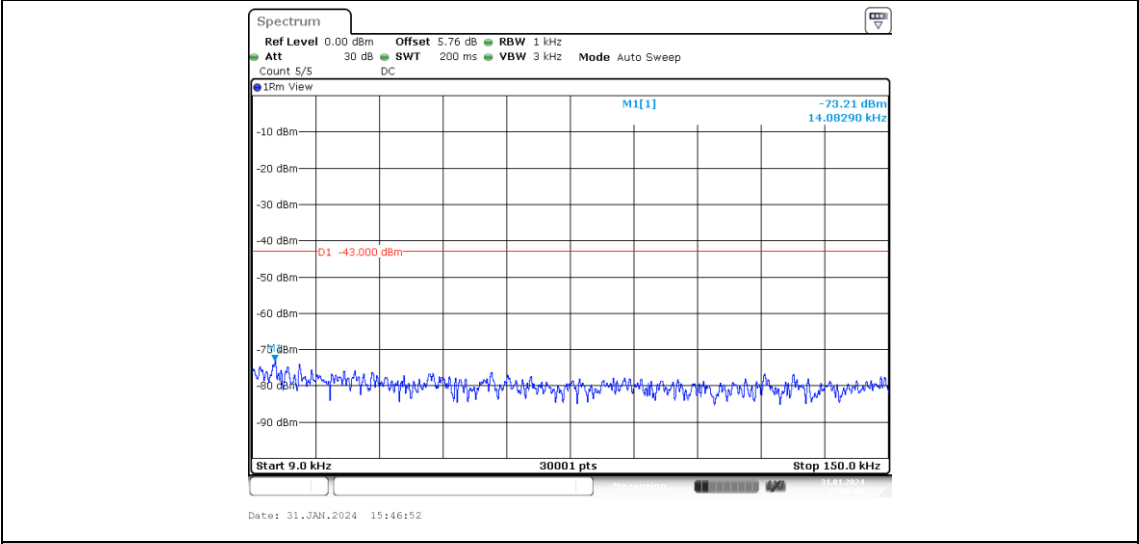
Band66-Stand-Alone-NaN-QPSK-131973-12@0-15kHz-0.15-30--68.7--33-PASS



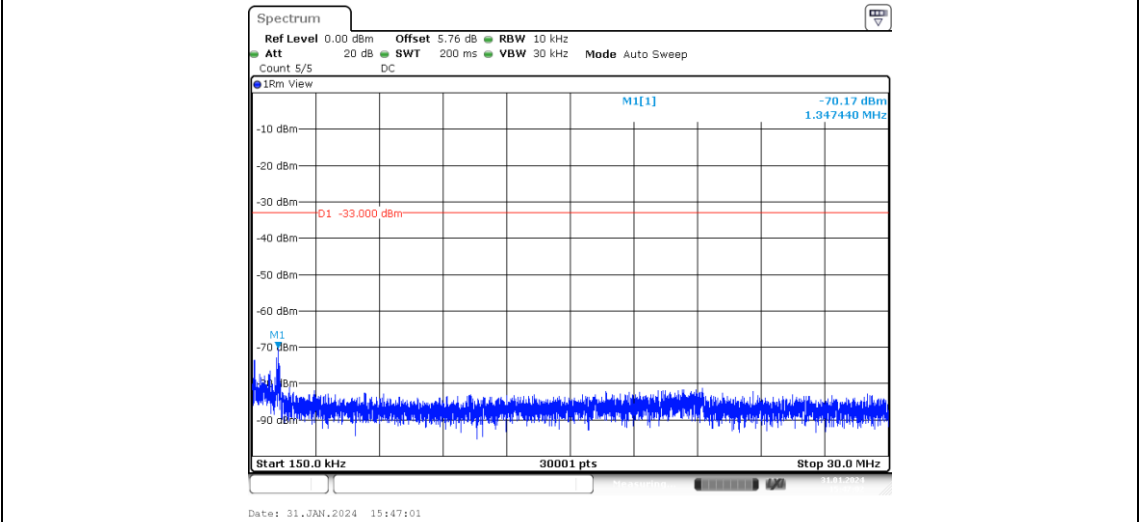
Band66-Stand-Alone-NaN-QPSK-131973-12@0-15kHz-30-1000--55.07--13-PASS



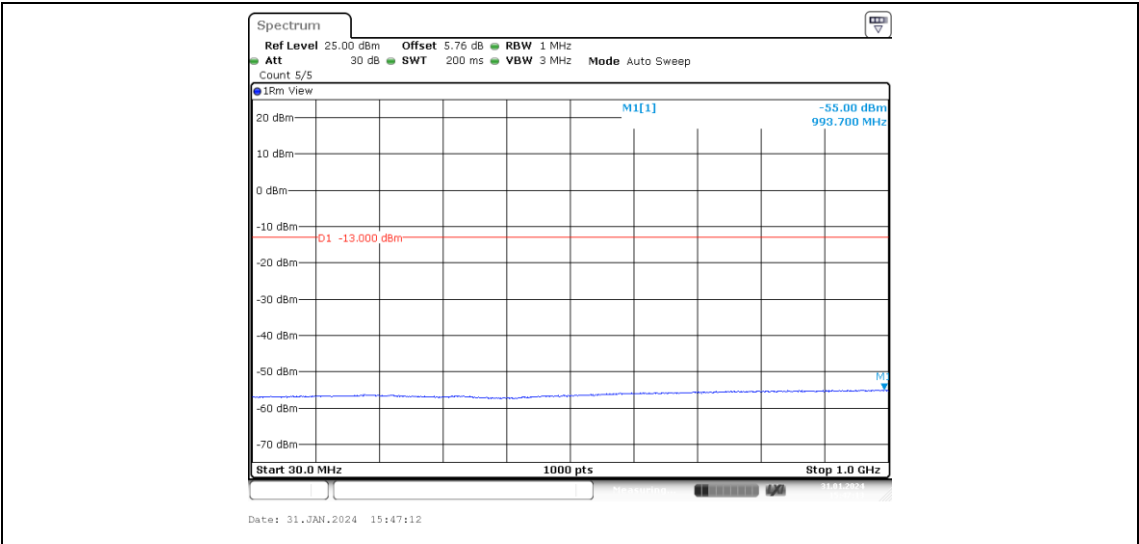
Band66-Stand-Alone-NaN-QPSK-131973-12@0-15kHz-1000-20000--46.95--13-PASS



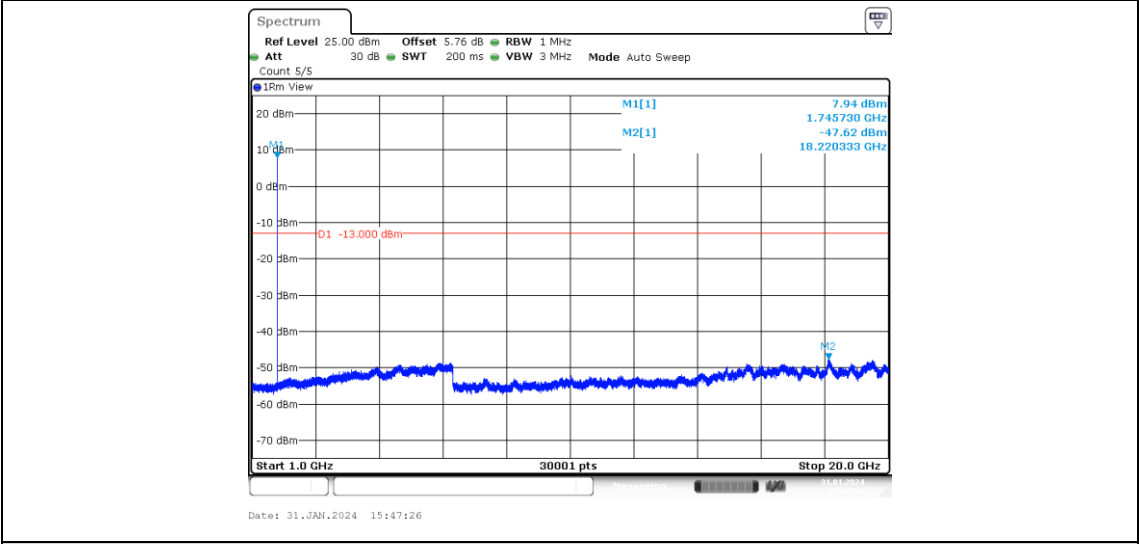
Band66-Stand-Alone-NaN-QPSK-132322-12@0-15kHz-0.009-0.15--73.21--43-PASS



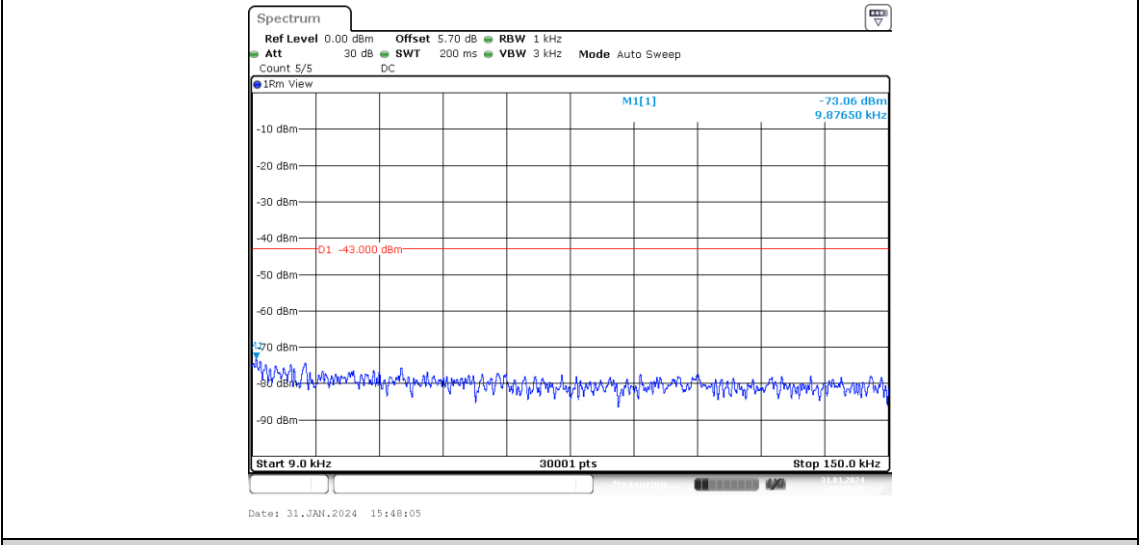
Band66-Stand-Alone-NaN-QPSK-132322-12@0-15kHz-0.15-30--70.17--33-PASS



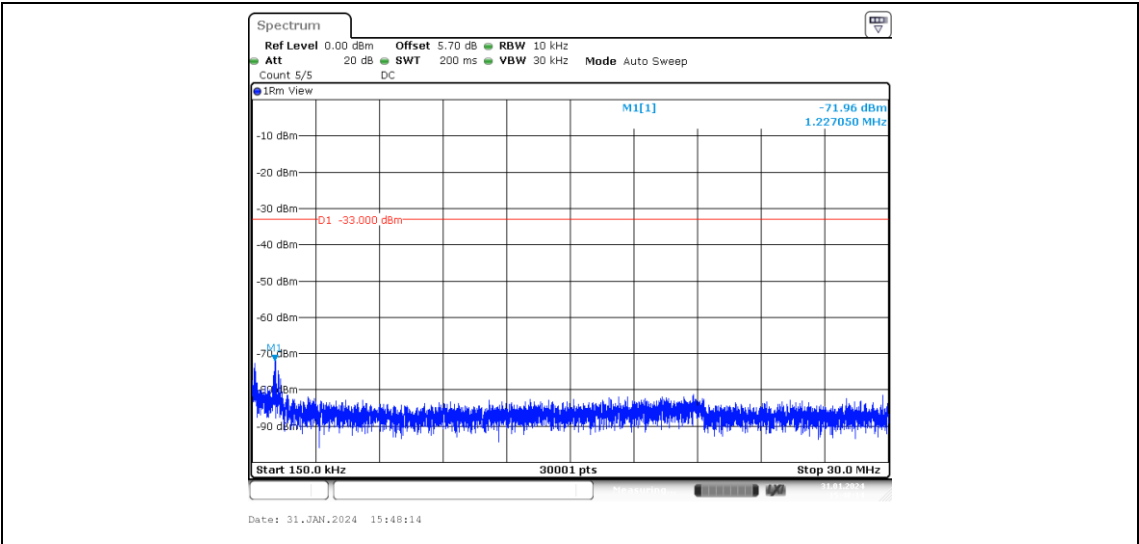
Band66-Stand-Alone-NaN-QPSK-132322-12@0-15kHz-30-1000--55--13-PASS



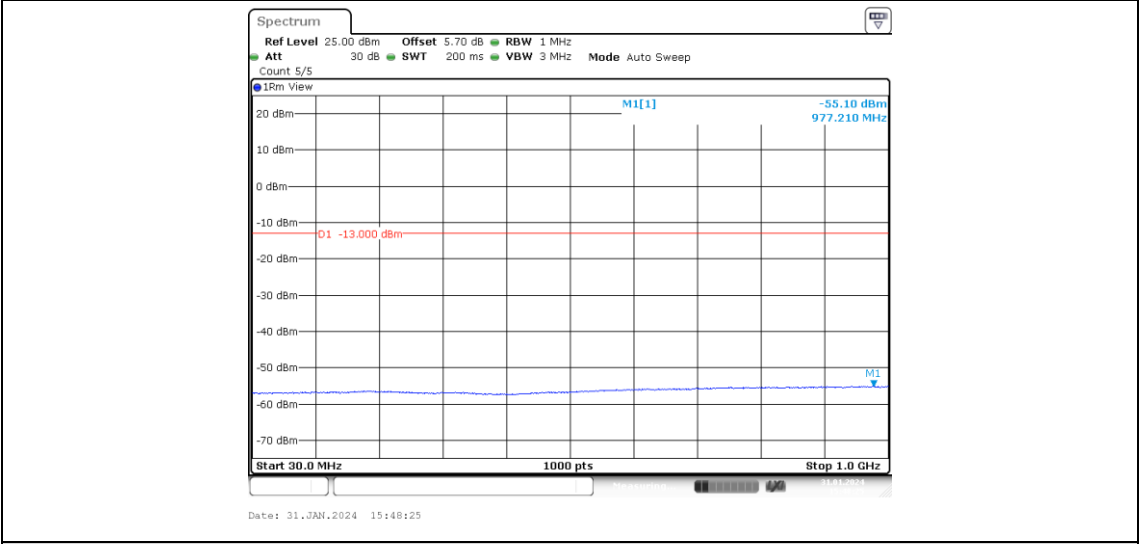
Band66-Stand-Alone-NaN-QPSK-132322-12@0-15kHz-1000-20000--47.62--13-PASS



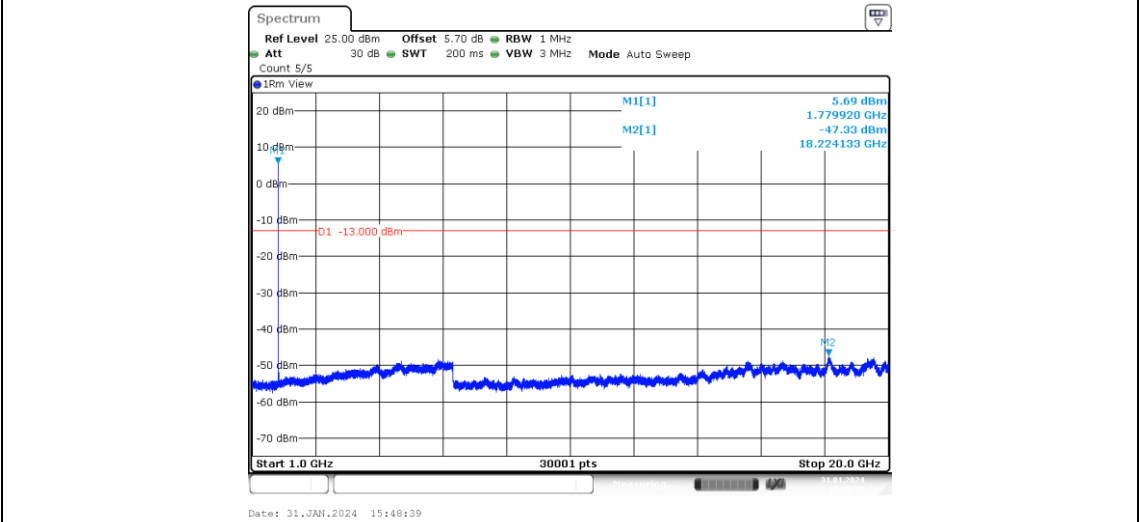
Band66-Stand-Alone-NaN-QPSK-132671-12@0-15kHz-0.009-0.15--73.06--43-PASS



Band66-Stand-Alone-NaN-QPSK-132671-12@0-15kHz-0.15-30--71.96--33-PASS



Band66-Stand-Alone-NaN-QPSK-132671-12@0-15kHz-30-1000--55.1--13-PASS



Band66-Stand-Alone-NaN-QPSK-132671-12@0-15kHz-1000-20000--47.33--13-PASS

Appendix F: Frequency Stability

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 d66	Stand- Alone	3.75 kHz	NaN	QPS K	132 322	1 @ 0	VH	NT	-22.3 2	-0.01 2791	±2. 5	PA SS
Ban d66	Stand- Alone	3.75 kHz	NaN	QPS K	132 322	1 @ 0	VL	NT	-23.9 9	-0.01 3748	±2. 5	PA SS
Ban d66	Stand- Alone	3.75 kHz	NaN	QPS K	132 322	1 @ 0	VN	NT	-23.1 0	-0.01 3238	±2. 5	PA SS
Ban d66	Stand- Alone	3.75 kHz	NaN	QPS K	132 322	1 @ 47	VH	NT	-20.8 7	-0.01 1960	±2. 5	PA SS
Ban d66	Stand- Alone	3.75 kHz	NaN	QPS K	132 322	1 @ 47	VL	NT	-22.6 7	-0.01 2991	±2. 5	PA SS
Ban d66	Stand- Alone	3.75 kHz	NaN	QPS K	132 322	1 @ 47	VN	NT	-24.5 6	-0.01 4074	±2. 5	PA SS
Ban d66	Stand- Alone	15k Hz	NaN	QPS K	132 322	1 @ 0	VH	NT	-24.6 9	-0.01 4149	±2. 5	PA SS
Ban d66	Stand- Alone	15k Hz	NaN	QPS K	132 322	1 @ 0	VL	NT	-22.4 9	-0.01 2888	±2. 5	PA SS
Ban d66	Stand- Alone	15k Hz	NaN	QPS K	132 322	1 @ 0	VN	NT	-21.5 3	-0.01 2338	±2. 5	PA SS
Ban d66	Stand- Alone	15k Hz	NaN	QPS K	132 322	1 @1 1	VH	NT	-16.0 6	-0.00 9203	±2. 5	PA SS
Ban d66	Stand- Alone	15k Hz	NaN	QPS K	132 322	1 @1 1	VL	NT	-18.3 5	-0.01 0516	±2. 5	PA SS
Ban	Stand-	15k	NaN	QPS	132	1	VN	NT	-20.0	-0.01	±2.	PA

d66	Alone	Hz		K	322	@1 1			1	1467	5	SS
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Temperature												
Band	OpMod e	Band width	Modul ation	Cha nnel	Ton es	SC S	Volt age [Vd c]	Tempe rature (°C)	Devi ation (Hz)	Devia tion (ppm)	Li mit (pp m)	Ver dict
Ban d66	Stand- Alone	3.75 kHz	NaN	QP SK	132 322	1 @ 0	NV	50	-15.4 5	-0.00 8854	±2. 5	PA SS
Ban d66	Stand- Alone	3.75 kHz	NaN	QP SK	132 322	1 @ 0	NV	-20	-18.0 8	-0.01 0361	±2. 5	PA SS
Ban d66	Stand- Alone	3.75 kHz	NaN	QP SK	132 322	1 @ 0	NV	-10	-18.0 2	-0.01 0327	±2. 5	PA SS
Ban d66	Stand- Alone	3.75 kHz	NaN	QP SK	132 322	1 @ 0	NV	0	-17.6 0	-0.01 0086	±2. 5	PA SS
Ban d66	Stand- Alone	3.75 kHz	NaN	QP SK	132 322	1 @ 0	NV	10	-15.9 6	-0.00 9146	±2. 5	PA SS
Ban d66	Stand- Alone	3.75 kHz	NaN	QP SK	132 322	1 @ 0	NV	20	-14.4 8	-0.00 8298	±2. 5	PA SS
Ban d66	Stand- Alone	3.75 kHz	NaN	QP SK	132 322	1 @ 0	NV	30	-13.7 6	-0.00 7885	±2. 5	PA SS
Ban d66	Stand- Alone	3.75 kHz	NaN	QP SK	132 322	1 @ 0	NV	40	-16.1 6	-0.00 9261	±2. 5	PA SS
Ban d66	Stand- Alone	3.75 kHz	NaN	QP SK	132 322	1 @ 0	NV	-30	-21.5 1	-0.01 2327	±2. 5	PA SS
Ban d66	Stand- Alone	3.75 kHz	NaN	QP SK	132 322	1 @ 47	NV	30	-16.2 4	-0.00 9307	±2. 5	PA SS
Ban d66	Stand- Alone	3.75 kHz	NaN	QP SK	132 322	1 @ 47	NV	20	-13.4 6	-0.00 7713	±2. 5	PA SS
Ban d66	Stand- Alone	3.75 kHz	NaN	QP SK	132 322	1 @	NV	10	-14.9 6	-0.00 8573	±2. 5	PA SS

						47						
Ban d66	Stand- Alone	3.75 kHz	NaN	QP SK	132 322	1 @ 47	NV	0	-14.4 6	-0.00 8287	±2. 5	PA SS
Ban d66	Stand- Alone	3.75 kHz	NaN	QP SK	132 322	1 @ 47	NV	-10	-17.9 5	-0.01 0287	±2. 5	PA SS
Ban d66	Stand- Alone	3.75 kHz	NaN	QP SK	132 322	1 @ 47	NV	40	-15.2 2	-0.00 8722	±2. 5	PA SS
Ban d66	Stand- Alone	3.75 kHz	NaN	QP SK	132 322	1 @ 47	NV	-30	-18.3 1	-0.01 0493	±2. 5	PA SS
Ban d66	Stand- Alone	3.75 kHz	NaN	QP SK	132 322	1 @ 47	NV	50	-15.3 1	-0.00 8774	±2. 5	PA SS
Ban d66	Stand- Alone	3.75 kHz	NaN	QP SK	132 322	1 @ 47	NV	-20	-17.1 2	-0.00 9811	±2. 5	PA SS
Ban d66	Stand- Alone	15kHz z	NaN	QP SK	132 322	1 @ 0	NV	50	-23.6 9	-0.01 3576	±2. 5	PA SS
Ban d66	Stand- Alone	15kHz z	NaN	QP SK	132 322	1 @ 0	NV	-20	-22.4 3	-0.01 2854	±2. 5	PA SS
Ban d66	Stand- Alone	15kHz z	NaN	QP SK	132 322	1 @ 0	NV	-10	-27.1 7	-0.01 5570	±2. 5	PA SS
Ban d66	Stand- Alone	15kHz z	NaN	QP SK	132 322	1 @ 0	NV	0	-26.7 1	-0.01 5307	±2. 5	PA SS
Ban d66	Stand- Alone	15kHz z	NaN	QP SK	132 322	1 @ 0	NV	10	-28.2 4	-0.01 6183	±2. 5	PA SS
Ban d66	Stand- Alone	15kHz z	NaN	QP SK	132 322	1 @ 0	NV	20	-25.2 9	-0.01 4493	±2. 5	PA SS
Ban d66	Stand- Alone	15kHz z	NaN	QP SK	132 322	1 @ 0	NV	30	-21.4 3	-0.01 2281	±2. 5	PA SS
Ban d66	Stand- Alone	15kHz z	NaN	QP SK	132 322	1 @ 0	NV	40	-25.1 9	-0.01 4436	±2. 5	PA SS

Ban d66	Stand- Alone	15kHz	NaN	QP SK	132 322	1 @ 0	NV	-30	-20.6 6	-0.01 1840	±2. 5	PA SS
Ban d66	Stand- Alone	15kHz	NaN	QP SK	132 322	1 @1 1	NV	40	-20.3 4	-0.01 1656	±2. 5	PA SS
Ban d66	Stand- Alone	15kHz	NaN	QP SK	132 322	1 @1 1	NV	30	-22.5 6	-0.01 2928	±2. 5	PA SS
Ban d66	Stand- Alone	15kHz	NaN	QP SK	132 322	1 @1 1	NV	20	-17.7 1	-0.01 0149	±2. 5	PA SS
Ban d66	Stand- Alone	15kHz	NaN	QP SK	132 322	1 @1 1	NV	10	-19.6 8	-0.01 1278	±2. 5	PA SS
Ban d66	Stand- Alone	15kHz	NaN	QP SK	132 322	1 @1 1	NV	0	-18.3 2	-0.01 0499	±2. 5	PA SS
Ban d66	Stand- Alone	15kHz	NaN	QP SK	132 322	1 @1 1	NV	-10	-16.6 8	-0.00 9559	±2. 5	PA SS
Ban d66	Stand- Alone	15kHz	NaN	QP SK	132 322	1 @1 1	NV	-30	-17.8 7	-0.01 0241	±2. 5	PA SS
Ban d66	Stand- Alone	15kHz	NaN	QP SK	132 322	1 @1 1	NV	50	-24.0 2	-0.01 3765	±2. 5	PA SS
Ban d66	Stand- Alone	15kHz	NaN	QP SK	132 322	1 @1 1	NV	-20	-15.6 1	-0.00 8946	±2. 5	PA SS