

Appendix for NB-IOT Band 66

Product Name: NBloT Meter Interface Unit

Model No: AGIL WRPMIU 301

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	23.75	PASS
Band 66	Stand-Al one	3.75kHz	NaN	BPSK	131973	1@47	23.75	PASS
Band 66	Stand-Al one	3.75kHz	NaN	BPSK	132322	1@0	23.85	PASS
Band 66	Stand-Al one	3.75kHz	NaN	BPSK	132322	1@47	23.86	PASS
Band 66	Stand-Al one	3.75kHz	NaN	BPSK	132671	1@0	24.04	PASS
Band 66	Stand-Al one	3.75kHz	NaN	BPSK	132671	1@47	24.04	PASS
Band 66	Stand-Al one	3.75kHz	NaN	QPSK	131973	1@0	23.75	PASS
Band 66	Stand-Al one	3.75kHz	NaN	QPSK	131973	1@47	23.75	PASS
Band 66	Stand-Al one	3.75kHz	NaN	QPSK	132322	1@0	23.17	PASS
Band 66	Stand-Al one	3.75kHz	NaN	QPSK	132322	1@47	23.18	PASS
Band 66	Stand-Al one	3.75kHz	NaN	QPSK	132671	1@0	23.16	PASS
Band 66	Stand-Al one	3.75kHz	NaN	QPSK	132671	1@47	24.08	PASS
Band 66	Stand-Al one	15kHz	NaN	BPSK	131973	1@0	23.76	PASS
Band 66	Stand-Al one	15kHz	NaN	BPSK	131973	1@11	23.77	PASS
Band 66	Stand-Al one	15kHz	NaN	BPSK	132322	1@0	23.20	PASS
Band 66	Stand-Al one	15kHz	NaN	BPSK	132322	1@11	23.21	PASS
Band 66	Stand-Al one	15kHz	NaN	BPSK	132671	1@0	22.98	PASS

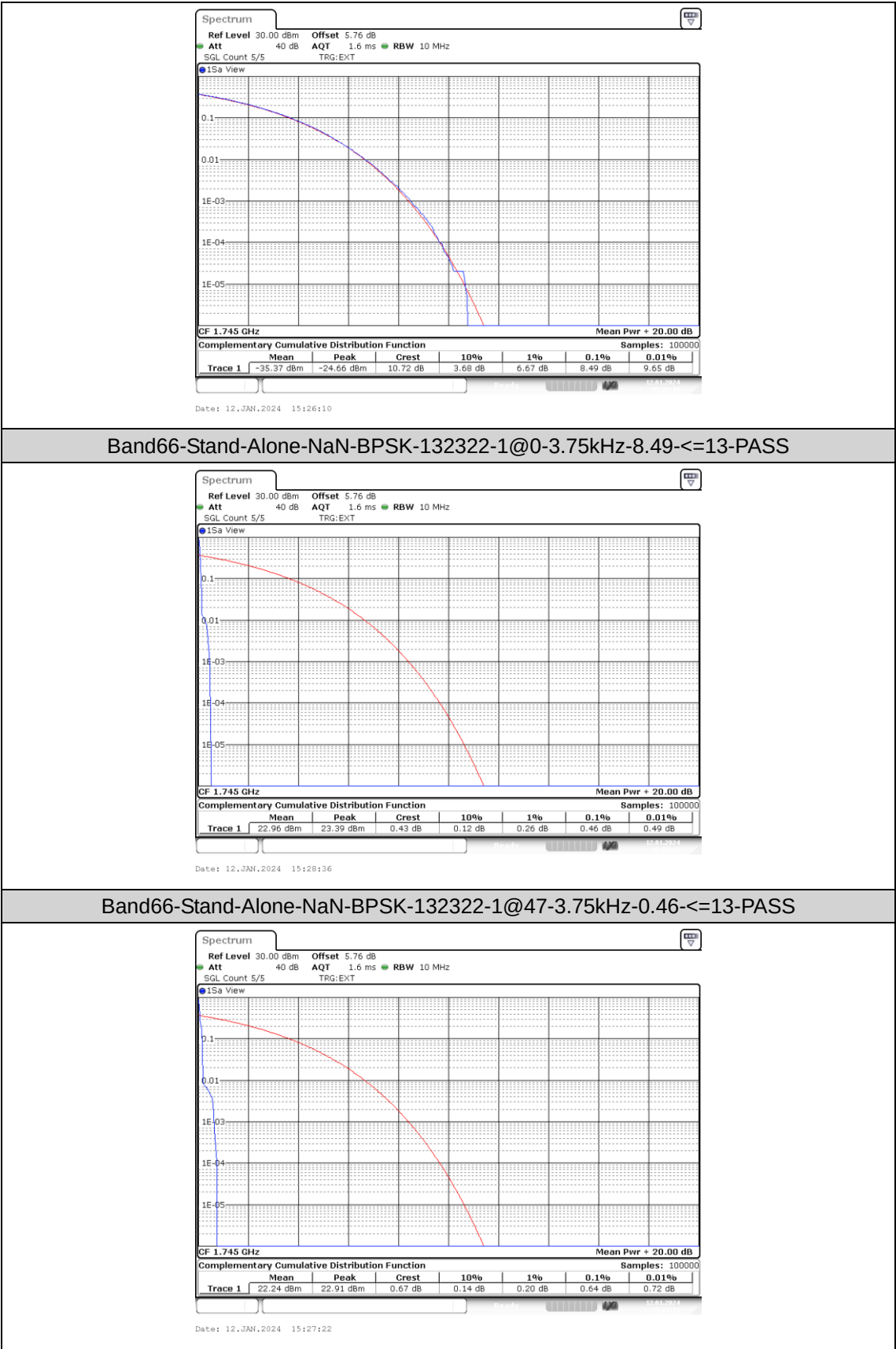
Band 66	Stand-Al one	15kHz	NaN	BPSK	132671	1@11	22.99	PASS
Band 66	Stand-Al one	15kHz	NaN	QPSK	131973	1@0	23.81	PASS
Band 66	Stand-Al one	15kHz	NaN	QPSK	131973	1@11	23.38	PASS
Band 66	Stand-Al one	15kHz	NaN	QPSK	131973	3@3	23.05	PASS
Band 66	Stand-Al one	15kHz	NaN	QPSK	132322	1@0	23.29	PASS
Band 66	Stand-Al one	15kHz	NaN	QPSK	132322	1@11	23.30	PASS
Band 66	Stand-Al one	15kHz	NaN	QPSK	132322	3@3	22.96	PASS
Band 66	Stand-Al one	15kHz	NaN	QPSK	132671	1@0	23.15	PASS
Band 66	Stand-Al one	15kHz	NaN	QPSK	132671	1@11	23.13	PASS
Band 66	Stand-Al one	15kHz	NaN	QPSK	132671	3@3	22.79	PASS

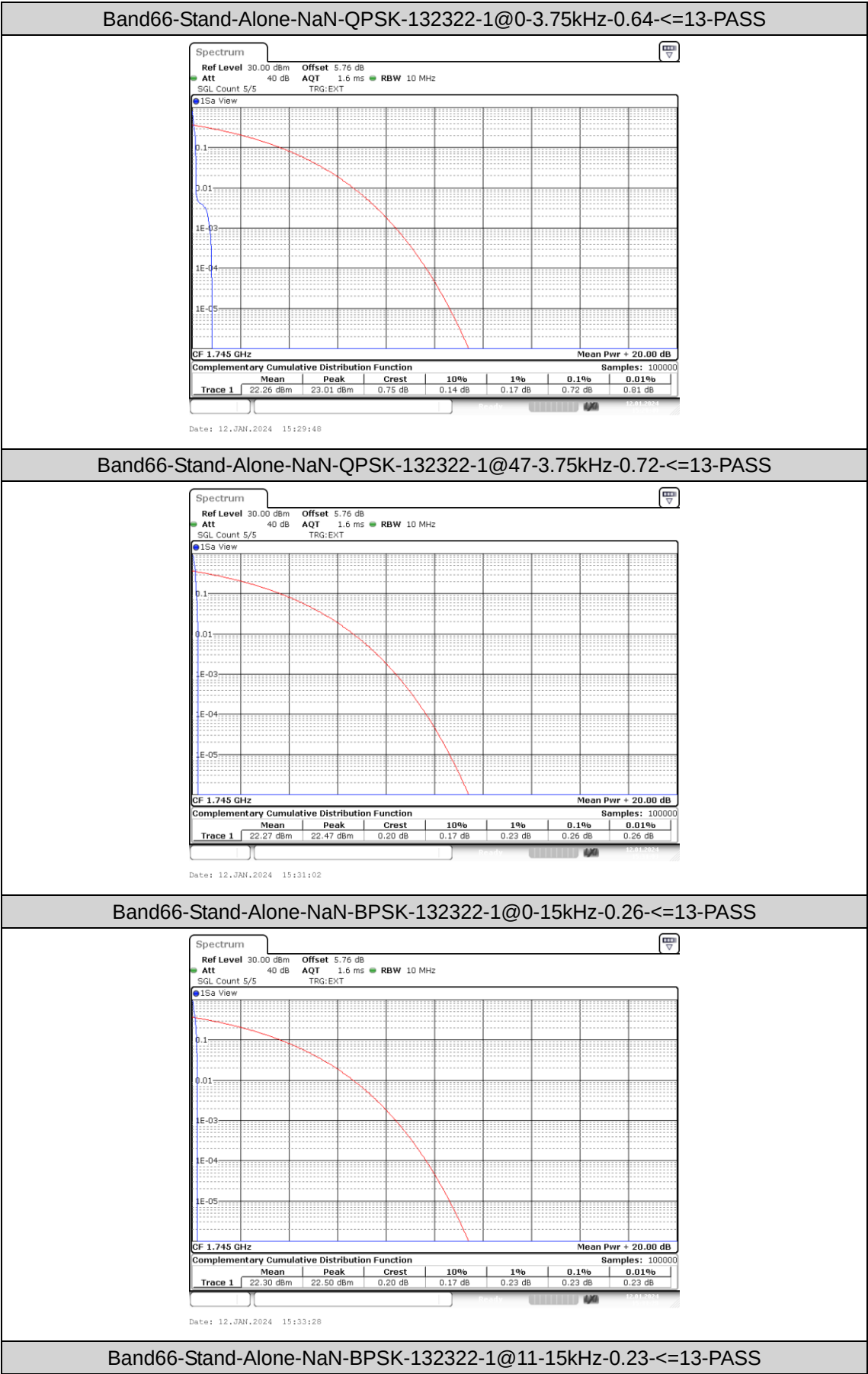
Appendix B: Peak-to-Average Ratio(CCDF)

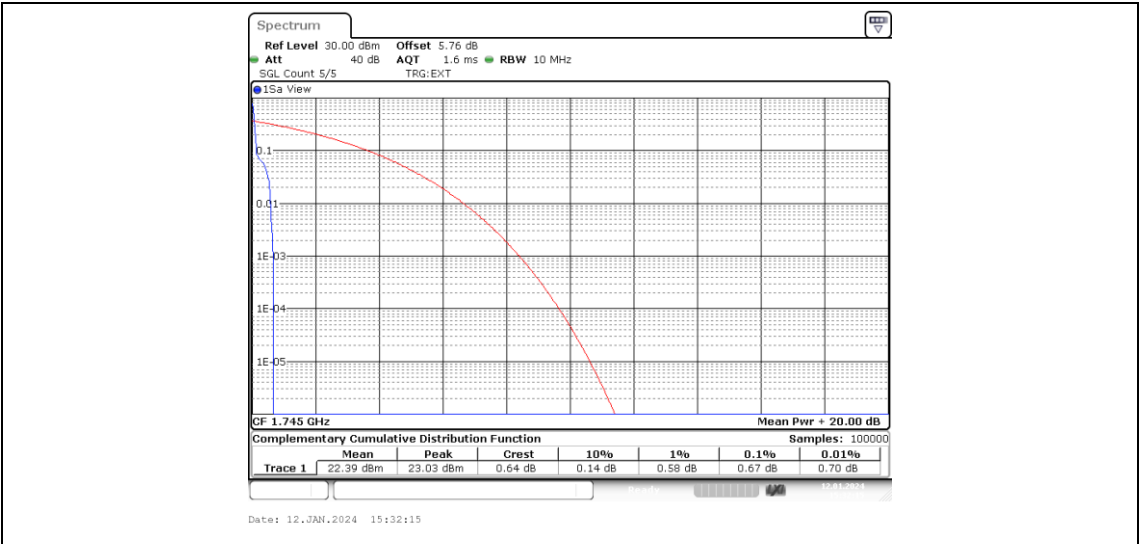
Test Result

Band	OpMode	SCS	BW	Modu	Channel	Tones	Result (dBm)	Limit (dBm)	Verdict
Band66	Stand-Alone	3.75kHz	NaN	BPSK	132322	1@0	8.49	<=13	PASS
Band66	Stand-Alone	3.75kHz	NaN	BPSK	132322	1@47	0.46	<=13	PASS
Band66	Stand-Alone	3.75kHz	NaN	QPSK	132322	1@0	0.64	<=13	PASS
Band66	Stand-Alone	3.75kHz	NaN	QPSK	132322	1@47	0.72	<=13	PASS
Band66	Stand-Alone	15kHz	NaN	BPSK	132322	1@0	0.26	<=13	PASS
Band66	Stand-Alone	15kHz	NaN	BPSK	132322	1@11	0.23	<=13	PASS
Band66	Stand-Alone	15kHz	NaN	QPSK	132322	1@0	0.67	<=13	PASS
Band66	Stand-Alone	15kHz	NaN	QPSK	132322	1@11	0.64	<=13	PASS
Band66	Stand-Alone	15kHz	NaN	QPSK	132322	3@3	1.33	<=13	PASS

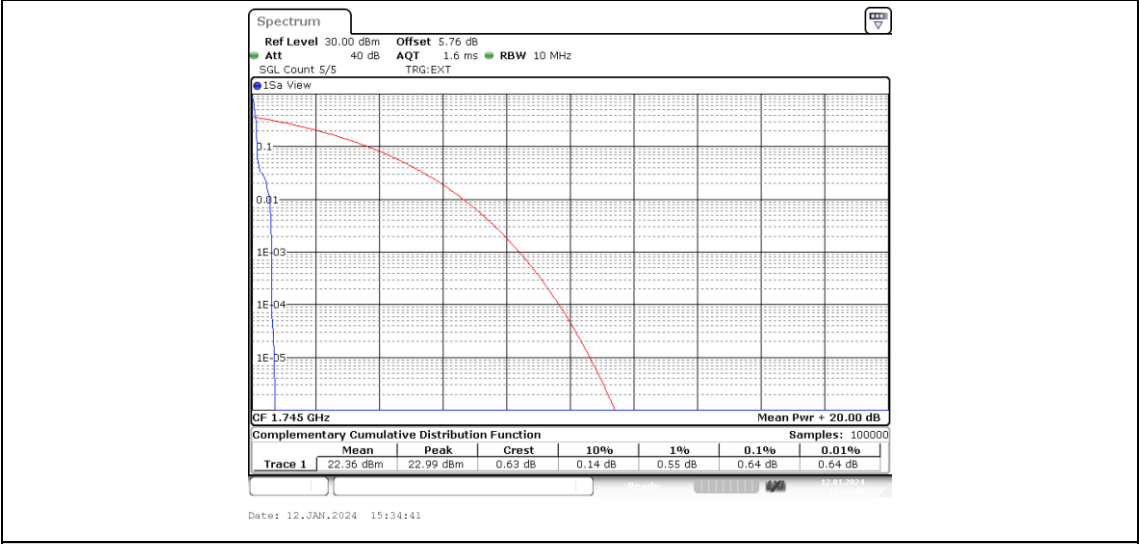
Test Graphs



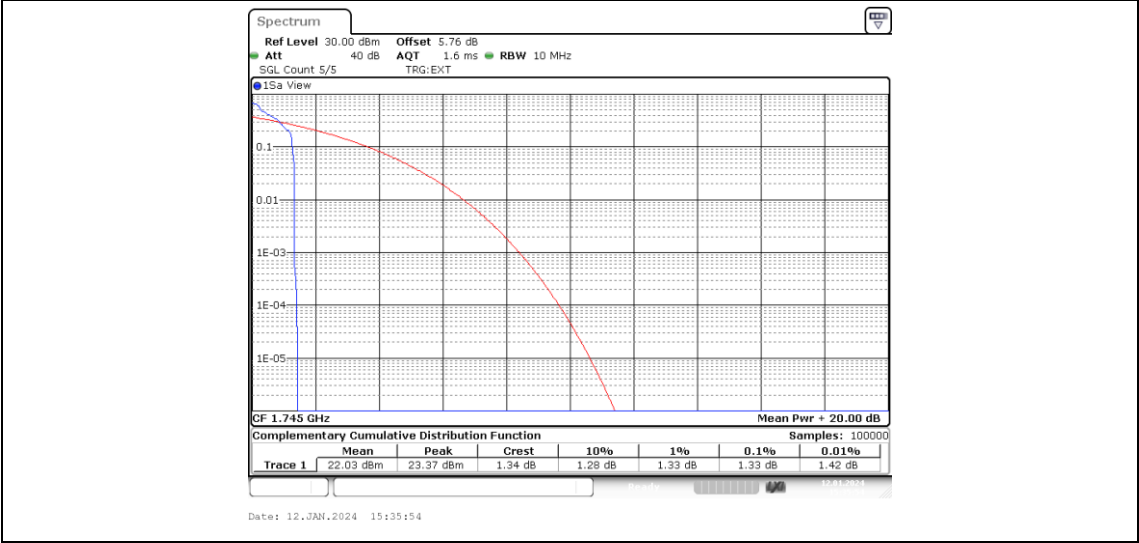




Band66-Stand-Alone-NaN-QPSK-132322-1@0-15kHz-0.67-<=13-PASS



Band66-Stand-Alone-NaN-QPSK-132322-1@11-15kHz-0.64-<=13-PASS



Band66-Stand-Alone-NaN-QPSK-132322-3@3-15kHz-1.33-<=13-PASS

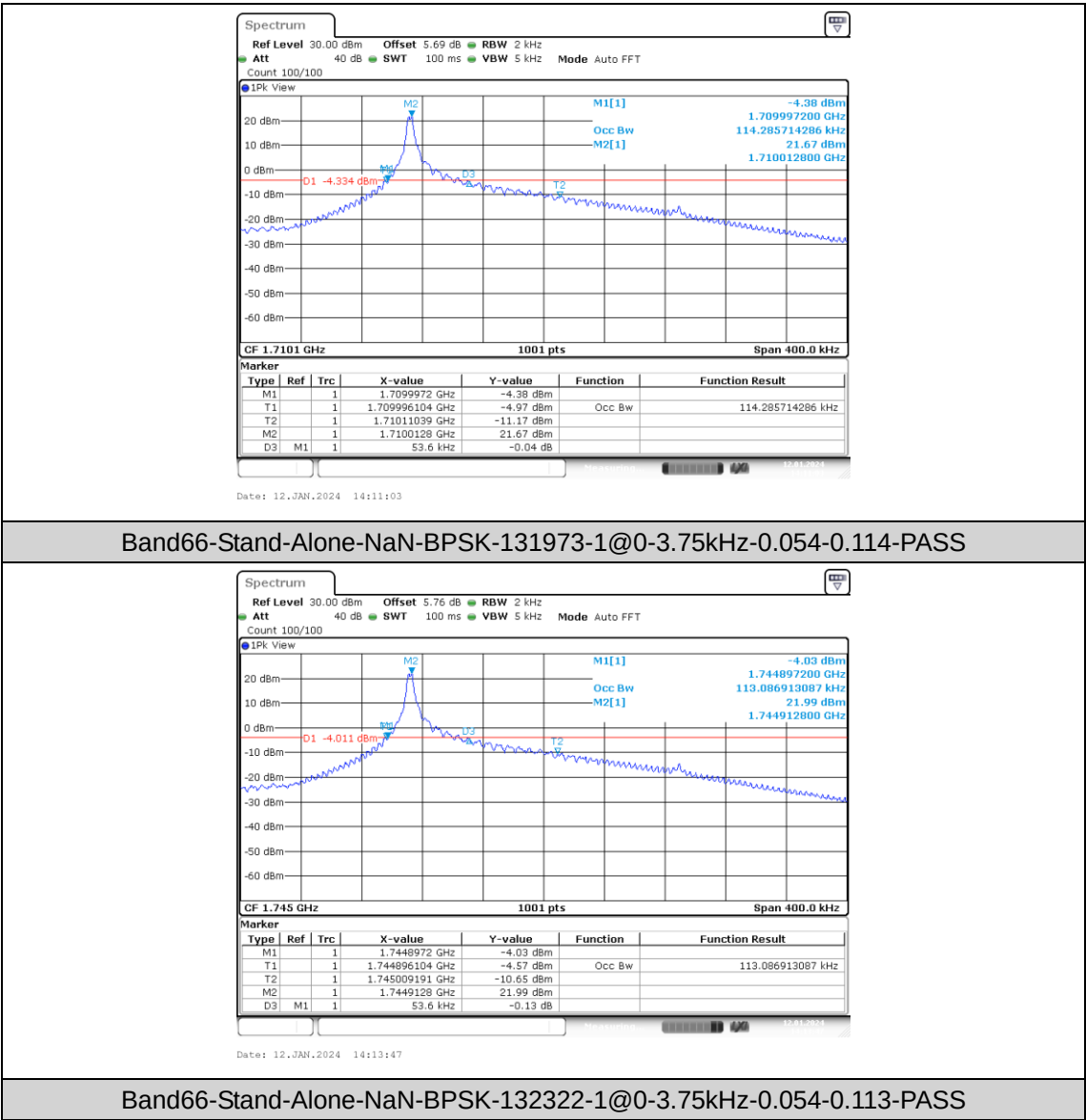
Appendix C: Emission Bandwidth

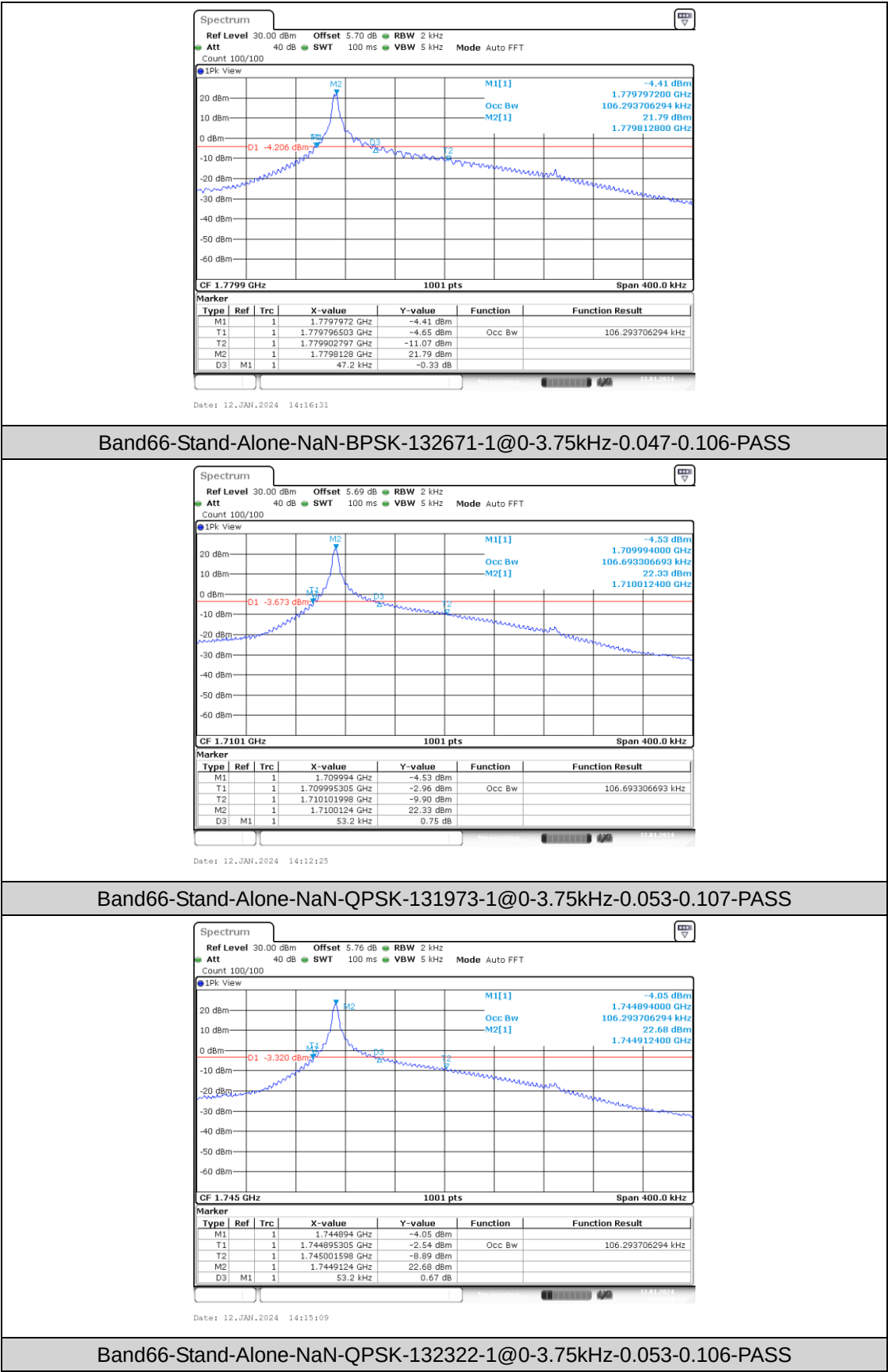
Test Result

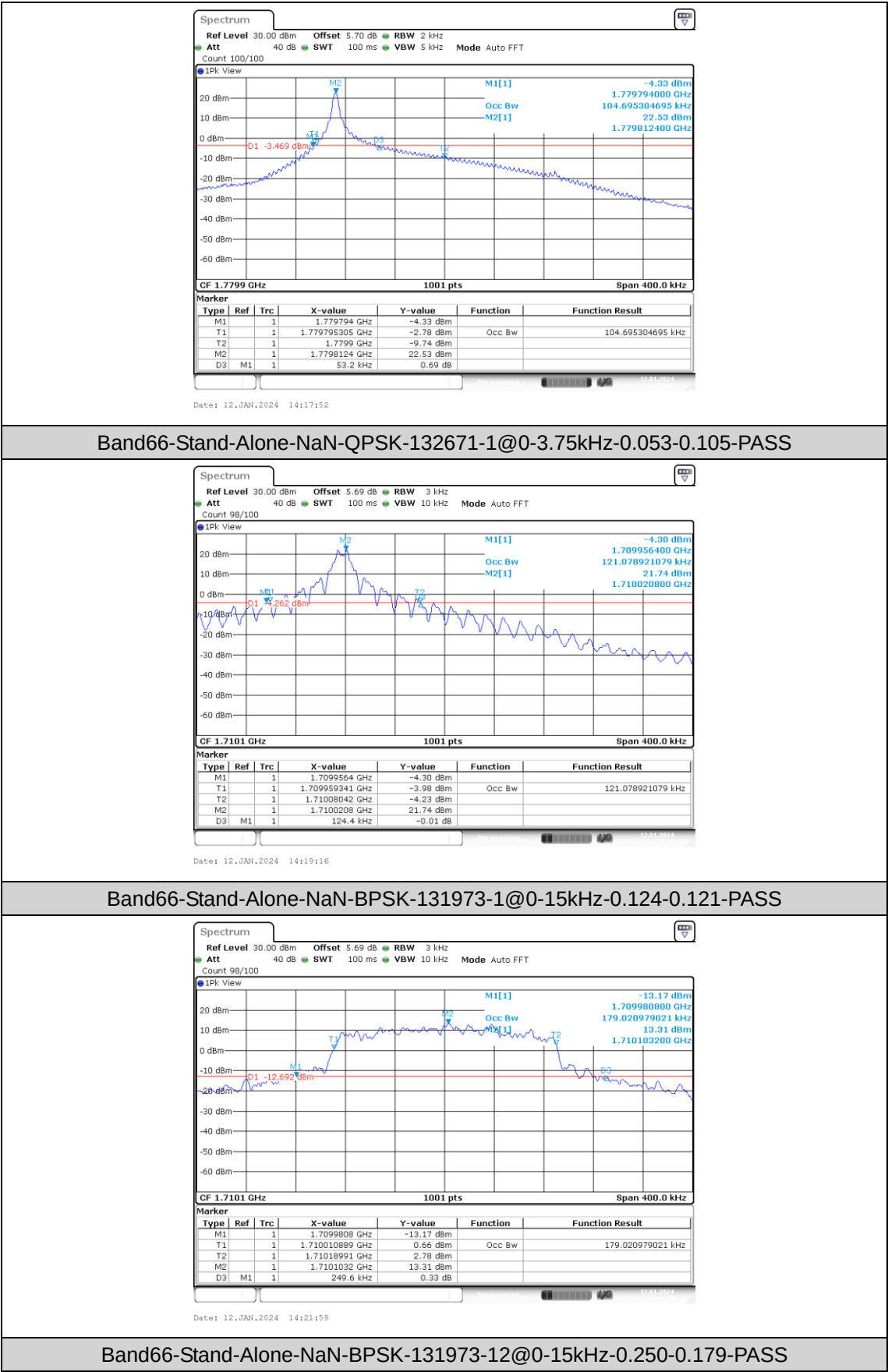
Band	OpMode	SCS	BW	Modu	Channel	Tones	OBW(MHz)	EBW(MHz)	Verdict
Band66	Stand-Alone	3.75kHz	NaN	BPSK	131973	1@0	0.114	0.054	PASS
Band66	Stand-Alone	3.75kHz	NaN	BPSK	132322	1@0	0.113	0.054	PASS
Band66	Stand-Alone	3.75kHz	NaN	BPSK	132671	1@0	0.106	0.047	PASS
Band66	Stand-Alone	3.75kHz	NaN	QPSK	131973	1@0	0.107	0.053	PASS
Band66	Stand-Alone	3.75kHz	NaN	QPSK	132322	1@0	0.106	0.053	PASS
Band66	Stand-Alone	3.75kHz	NaN	QPSK	132671	1@0	0.105	0.053	PASS
Band66	Stand-Alone	15kHz	NaN	BPSK	131973	1@0	0.121	0.124	PASS
Band66	Stand-Alone	15kHz	NaN	BPSK	131973	12@0	0.179	0.250	PASS
Band66	Stand-Alone	15kHz	NaN	BPSK	132322	1@0	0.115	0.124	PASS
Band66	Stand-Alone	15kHz	NaN	BPSK	132322	12@0	0.177	0.236	PASS
Band66	Stand-Alone	15kHz	NaN	BPSK	132671	1@0	0.111	0.124	PASS
Band66	Stand-Alone	15kHz	NaN	BPSK	132671	12@0	0.177	0.224	PASS
Band66	Stand-Alone	15kHz	NaN	QPSK	131973	1@0	0.15	0.175	PASS
Band66	Stand-Alone	15kHz	NaN	QPSK	131973	12@0	0.179	0.238	PASS
Band66	Stand-Alone	15kHz	NaN	QPSK	132322	1@0	0.141	0.161	PASS
Band66	Stand-Alone	15kHz	NaN	QPSK	132322	12@0	0.177	0.236	PASS
Band66	Stand-Alone	15kHz	NaN	QPSK	132671	1@0	0.133	0.161	PASS

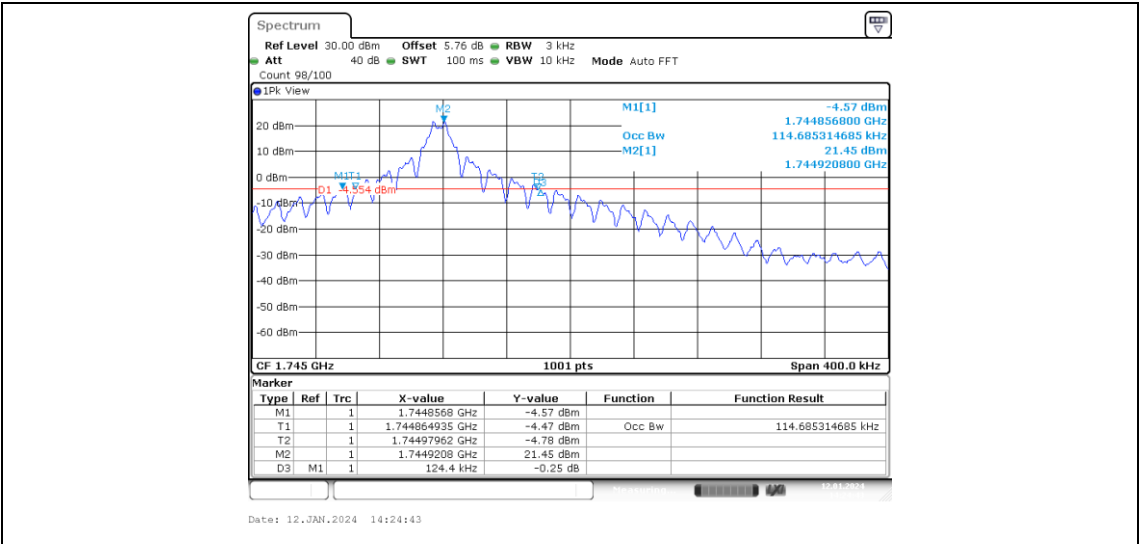
Band66	Stand-Al one	15kHz	NaN	QPSK	132671	12@0	0.177	0.224	PASS
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Test Graphs

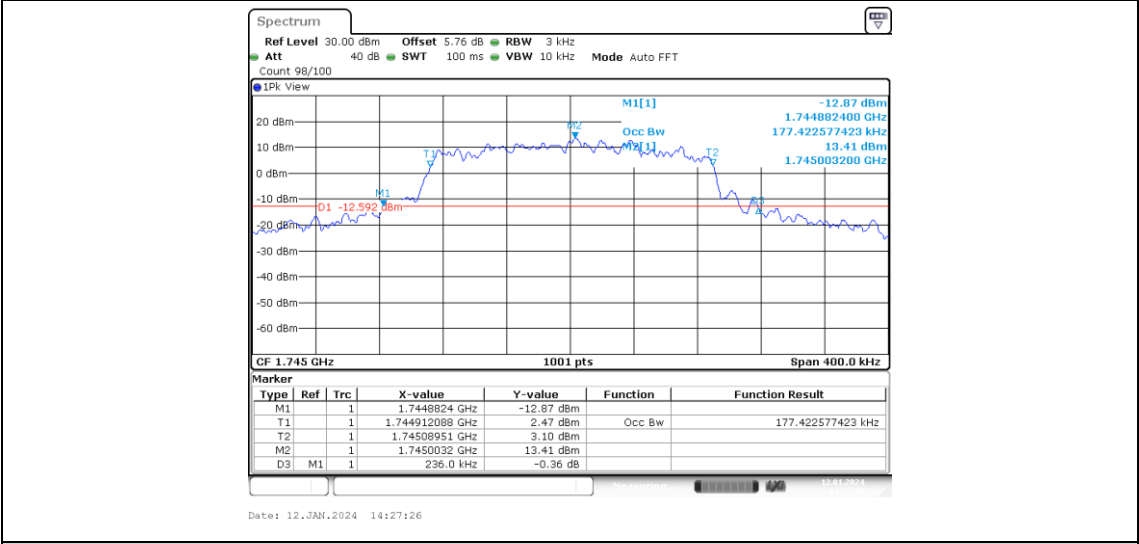




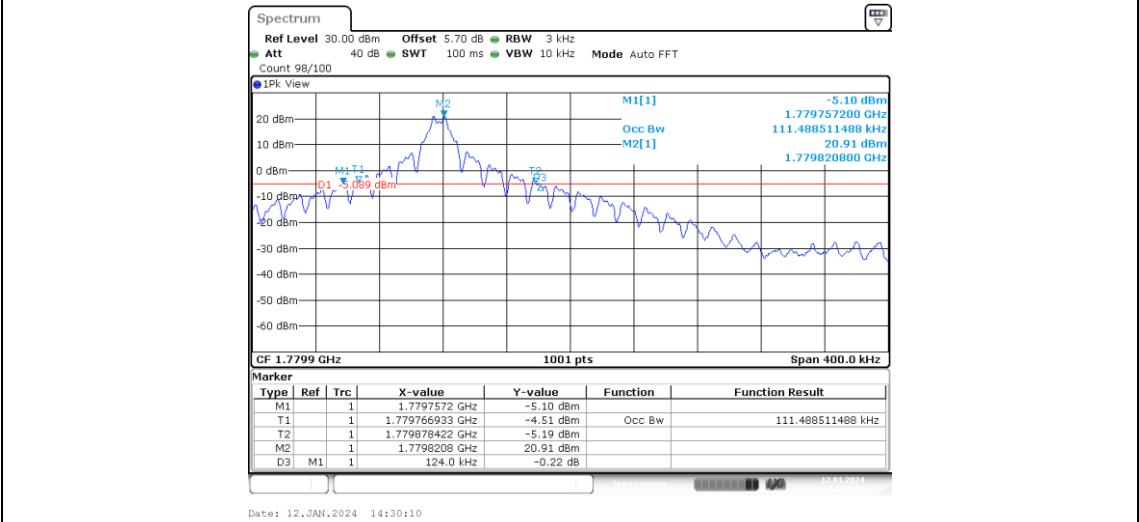




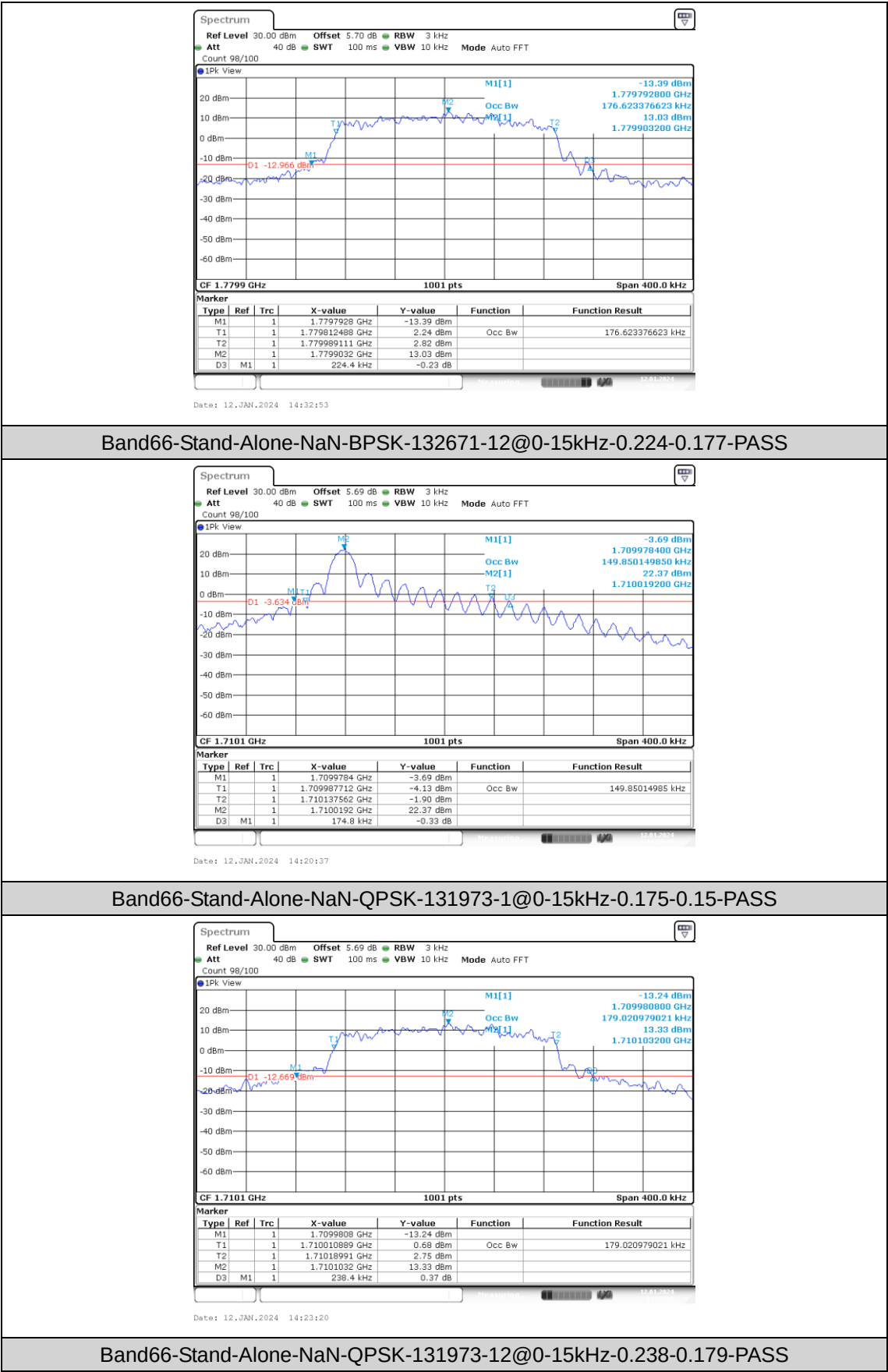
Band66-Stand-Alone-NaN-BPSK-132322-1@0-15kHz-0.124-0.115-PASS

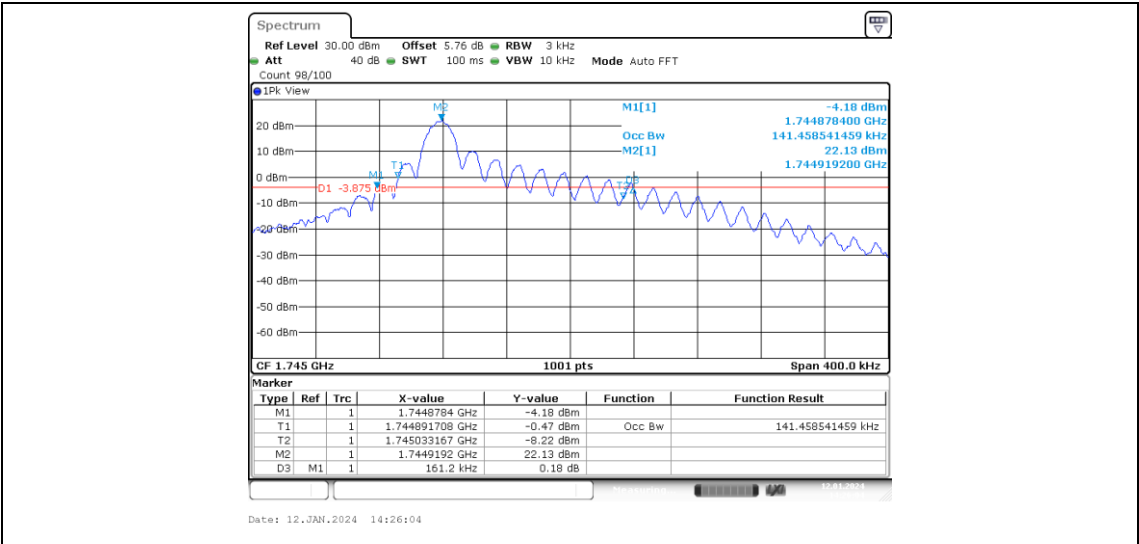


Band66-Stand-Alone-NaN-BPSK-132322-12@0-15kHz-0.236-0.177-PASS

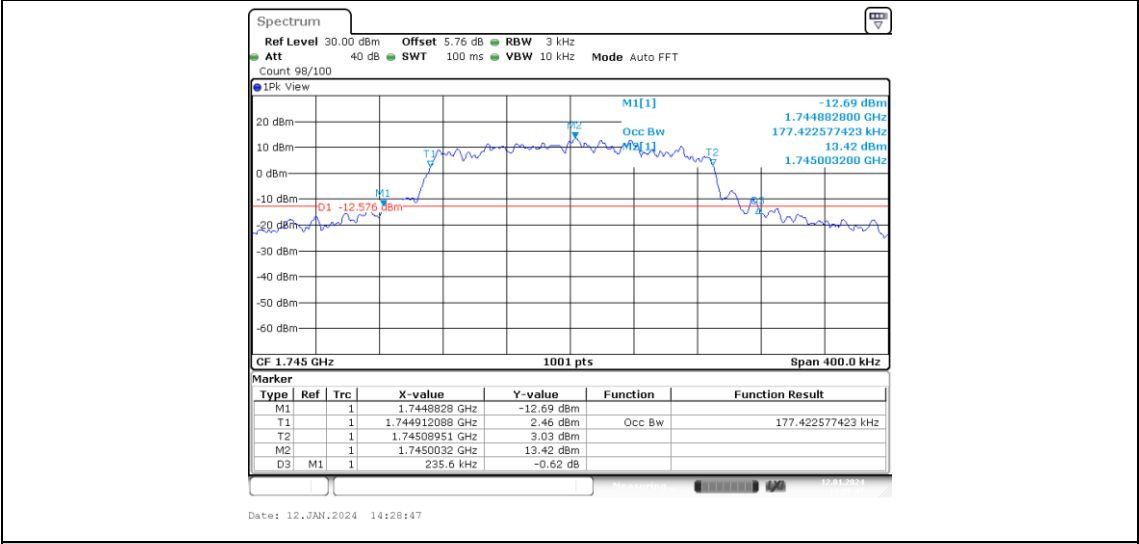


Band66-Stand-Alone-NaN-BPSK-132671-1@0-15kHz-0.124-0.111-PASS

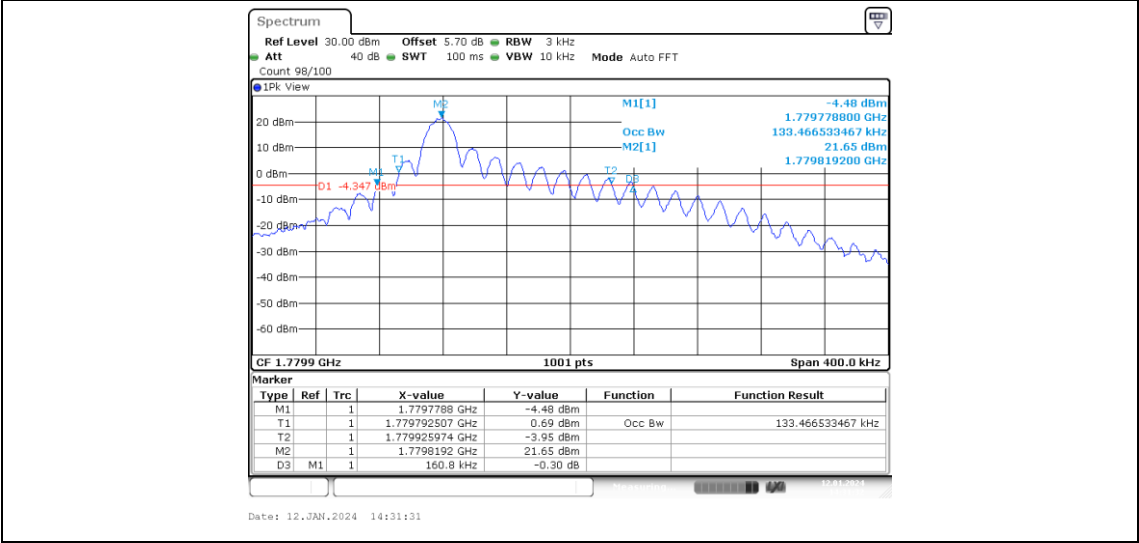




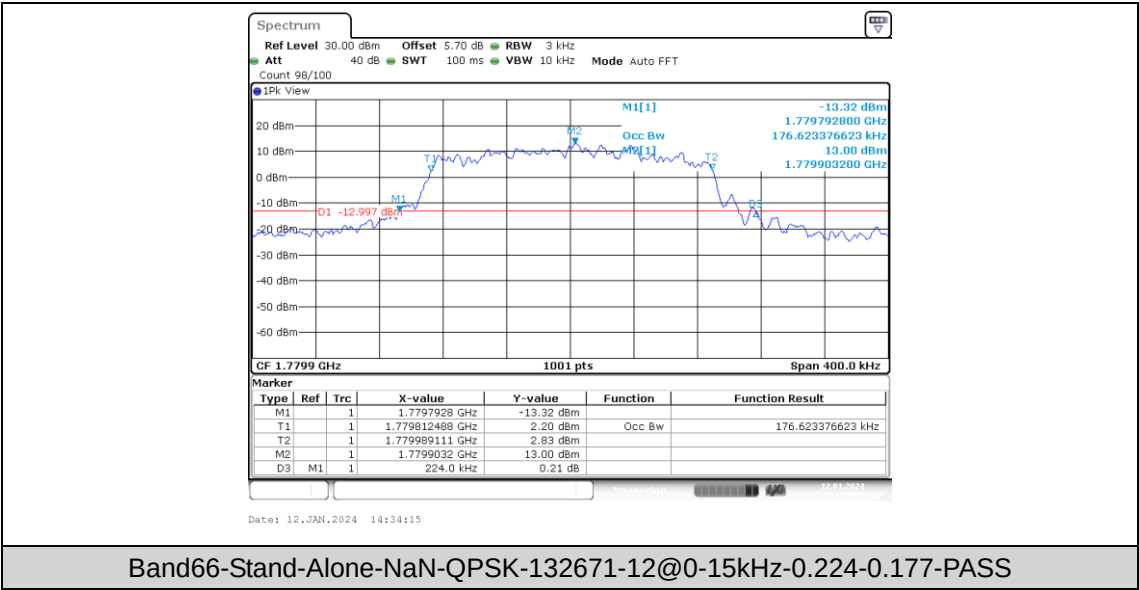
Band66-Stand-Alone-NaN-QPSK-132322-1@0-15kHz-0.161-0.141-PASS



Band66-Stand-Alone-NaN-QPSK-132322-12@0-15kHz-0.236-0.177-PASS



Band66-Stand-Alone-NaN-QPSK-132671-1@0-15kHz-0.161-0.133-PASS



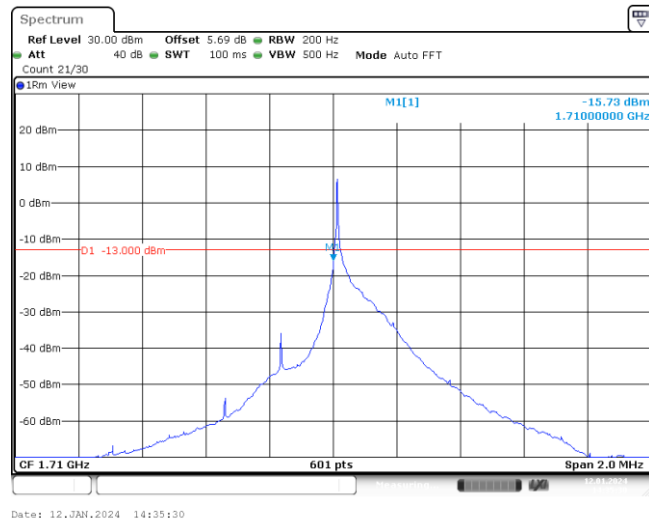
Appendix D: Band Edge

Test Result

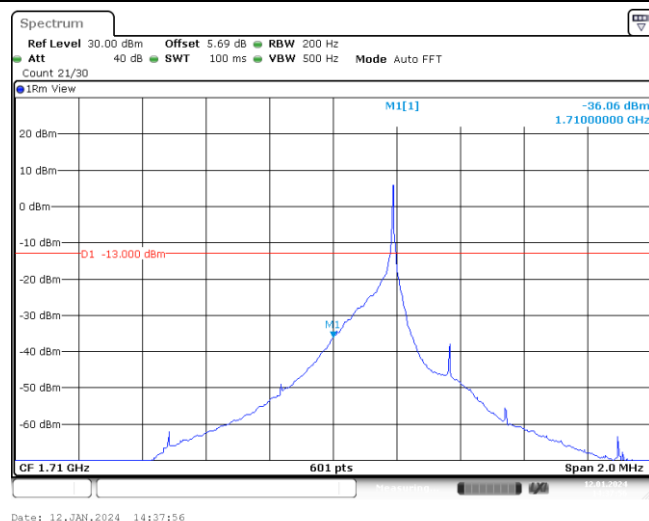
Band	OpMode	SCS	BW	Modu	Channel	Tones	Result (dBm)	Verdict
Band66	Stand-Alone	3.75kHz	NaN	BPSK	131973	1@0	-15.73	PASS
Band66	Stand-Alone	3.75kHz	NaN	BPSK	131973	1@47	-36.06	PASS
Band66	Stand-Alone	3.75kHz	NaN	BPSK	132671	1@0	-36.39	PASS
Band66	Stand-Alone	3.75kHz	NaN	BPSK	132671	1@47	-16.22	PASS
Band66	Stand-Alone	3.75kHz	NaN	QPSK	131973	1@0	-17.20	PASS
Band66	Stand-Alone	3.75kHz	NaN	QPSK	131973	1@47	-39.75	PASS
Band66	Stand-Alone	3.75kHz	NaN	QPSK	132671	1@0	-41.98	PASS
Band66	Stand-Alone	3.75kHz	NaN	QPSK	132671	1@47	-17.64	PASS
Band66	Stand-Alone	15kHz	NaN	BPSK	131973	1@0	-82.22	PASS
Band66	Stand-Alone	15kHz	NaN	BPSK	131973	1@11	-45.47	PASS
Band66	Stand-Alone	15kHz	NaN	BPSK	131973	12@0	-26.61	PASS
Band66	Stand-Alone	15kHz	NaN	BPSK	132671	1@0	-81.79	PASS
Band66	Stand-Alone	15kHz	NaN	BPSK	132671	1@11	-13.62	PASS
Band66	Stand-Alone	15kHz	NaN	BPSK	132671	12@0	-24.37	PASS
Band66	Stand-Alone	15kHz	NaN	QPSK	131973	1@0	-17.92	PASS
Band66	Stand-Alone	15kHz	NaN	QPSK	131973	1@11	-37.86	PASS
Band66	Stand-Alone	15kHz	NaN	QPSK	131973	12@0	-27.1	PASS

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Band66	Stand-Alone	15kHz	NaN	QPSK	132671	1@0	-37.7 4	PASS
Band66	Stand-Alone	15kHz	NaN	QPSK	132671	1@11	-17.5 9	PASS
Band66	Stand-Alone	15kHz	NaN	QPSK	132671	12@0	-28.2 1	PASS

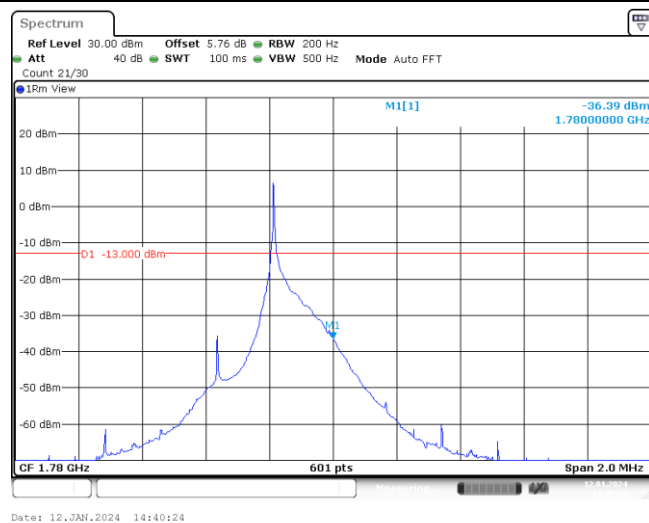
Test Graphs



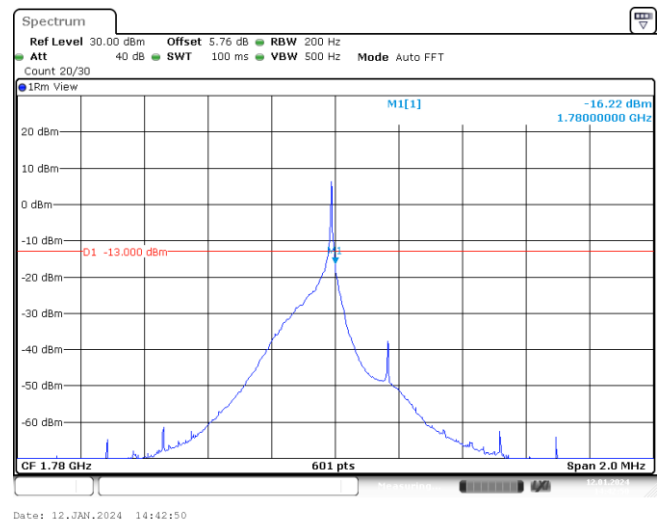
Band66-Stand-Alone-NaN-BPSK-131973-1@0-3.75kHz--15.73-PASS



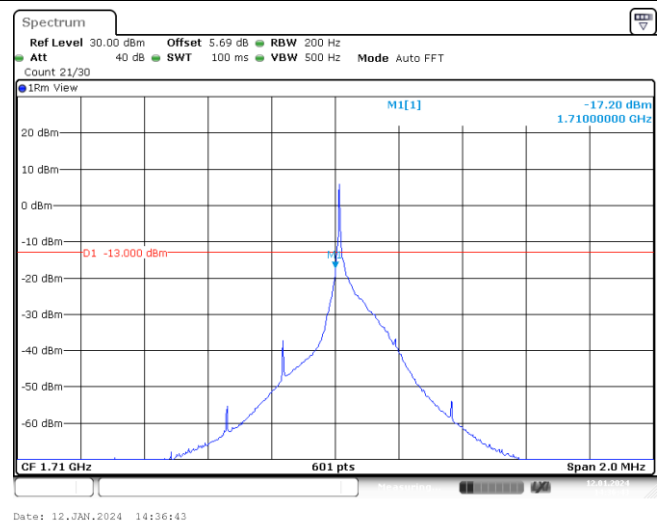
Band66-Stand-Alone-NaN-BPSK-131973-1@47-3.75kHz--36.06-PASS



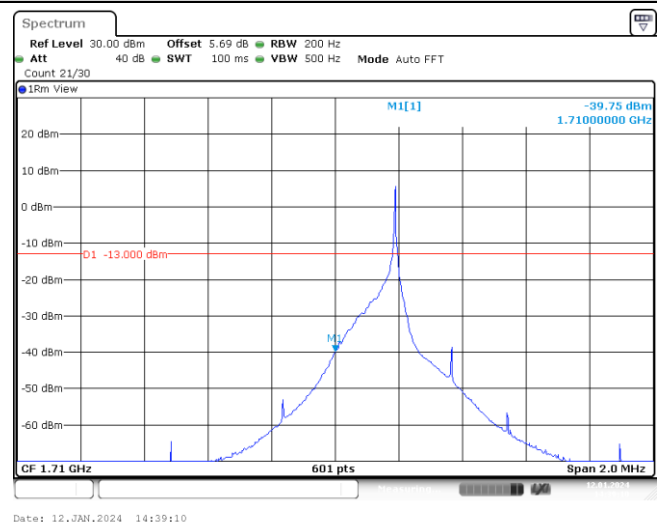
Band66-Stand-Alone-NaN-BPSK-132671-1@0-3.75kHz--36.39-PASS



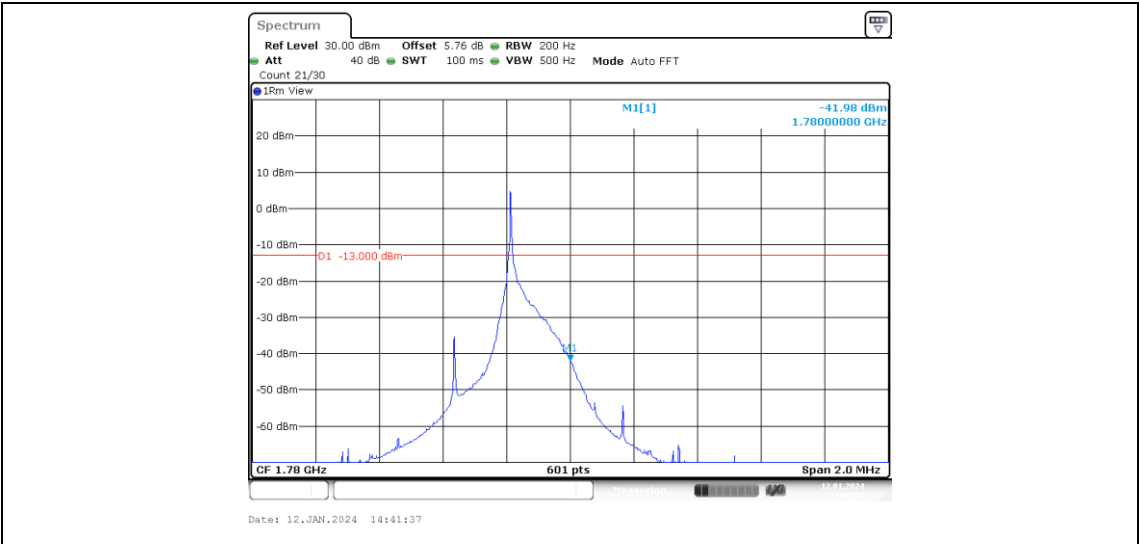
Band66-Stand-Alone-NaN-BPSK-132671-1@47-3.75kHz--16.22-PASS



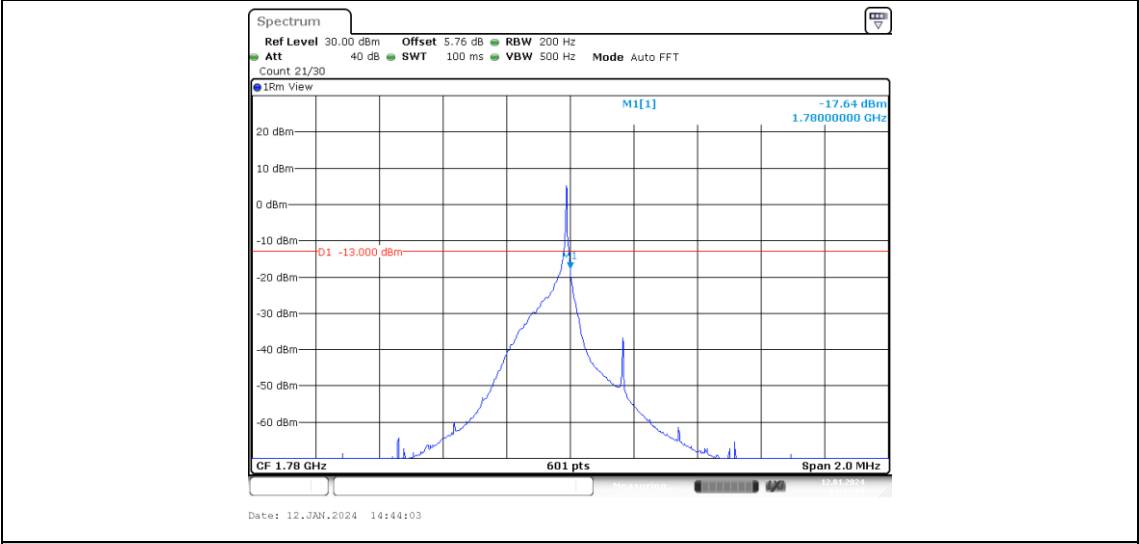
Band66-Stand-Alone-NaN-QPSK-131973-1@0-3.75kHz--17.20-PASS



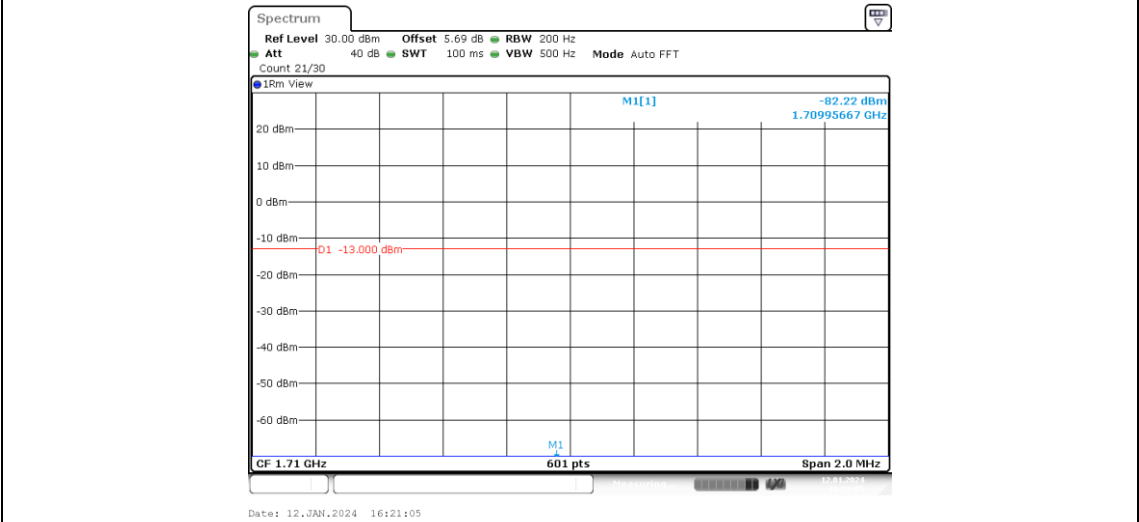
Band66-Stand-Alone-NaN-QPSK-131973-1@47-3.75kHz--39.75-PASS



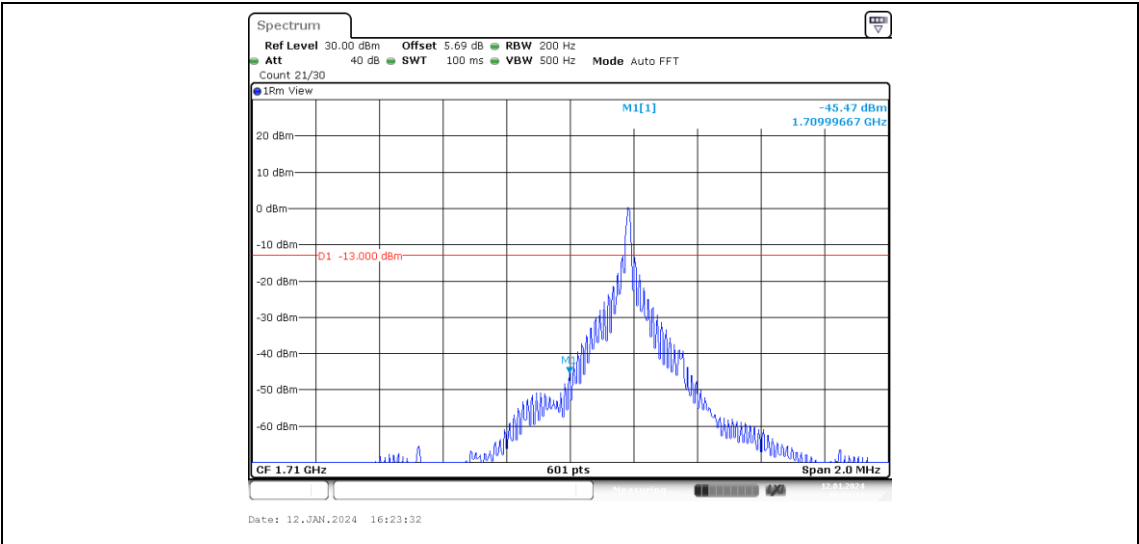
Band66-Stand-Alone-NaN-QPSK-132671-1@0-3.75kHz--41.98-PASS



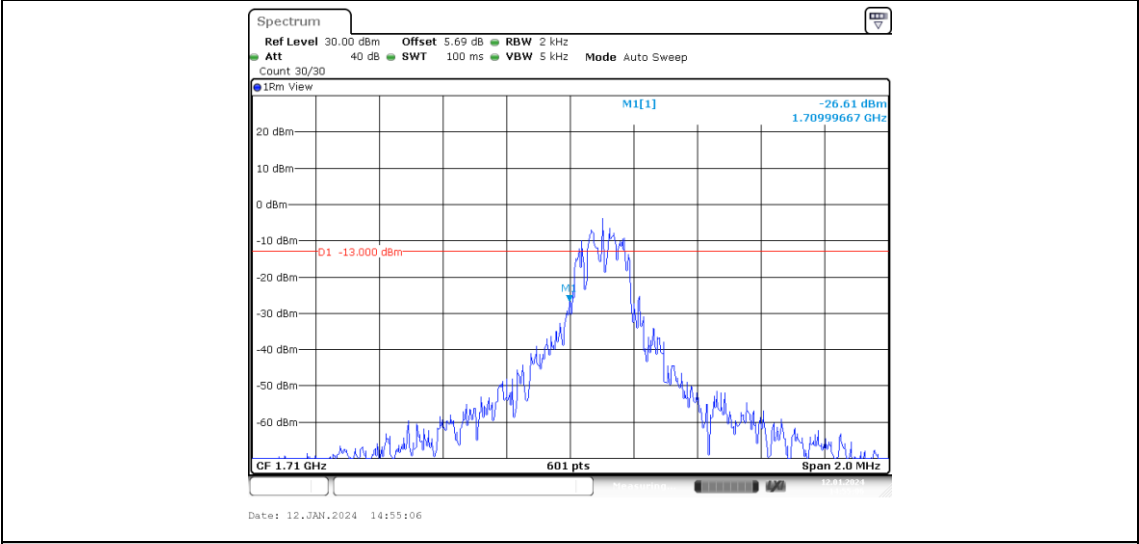
Band66-Stand-Alone-NaN-QPSK-132671-1@47-3.75kHz--17.64-PASS



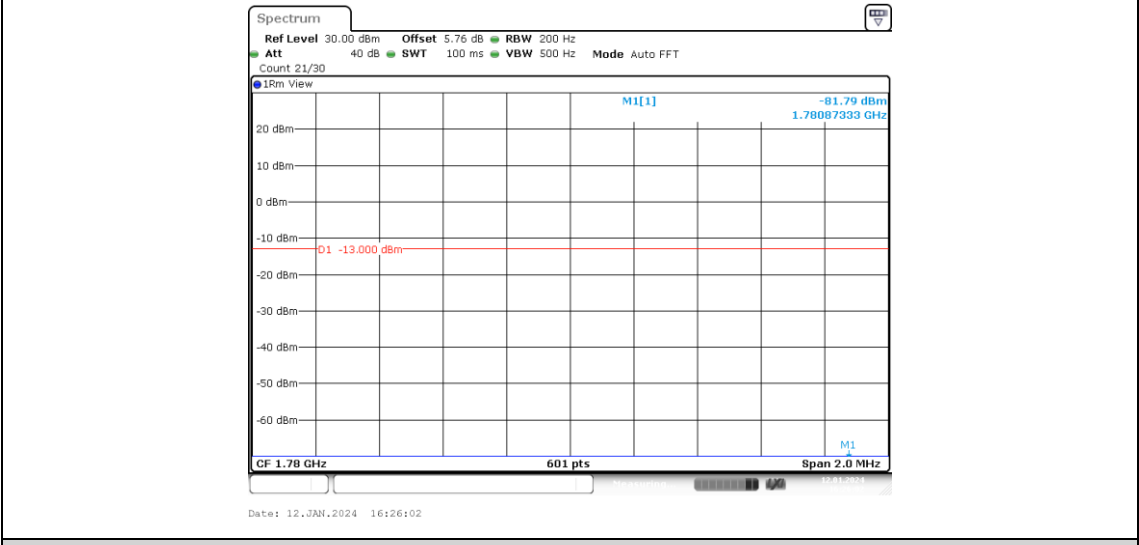
Band66-Stand-Alone-NaN-BPSK-131973-1@0-15kHz--82.22-PASS



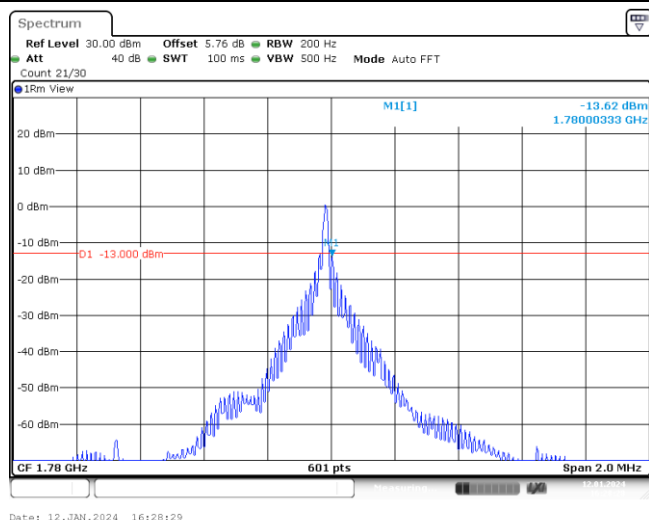
Band66-Stand-Alone-NaN-BPSK-131973-1@11-15kHz--45.47-PASS



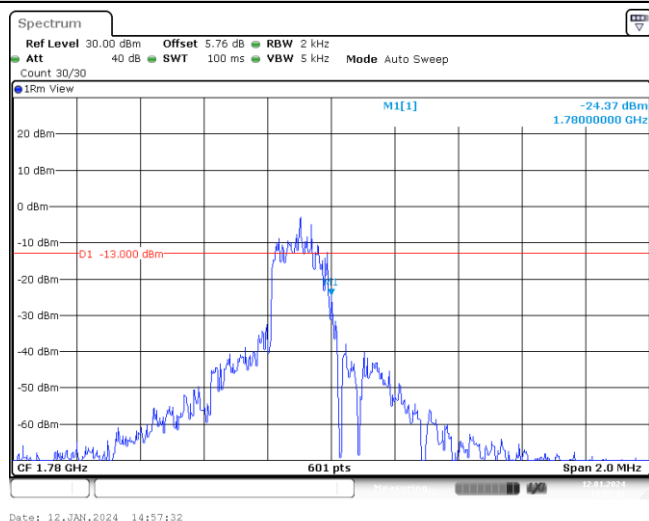
Band66-Stand-Alone-NaN-BPSK-131973-12@0-15kHz--26.61-PASS



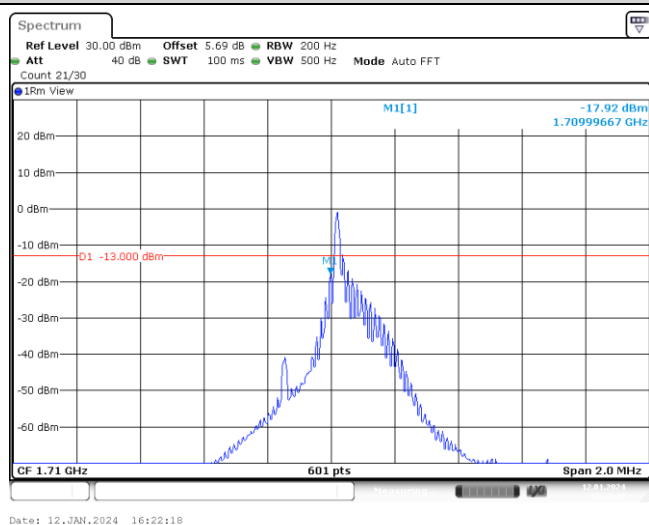
Band66-Stand-Alone-NaN-BPSK-132671-1@0-15kHz--81.79-PASS



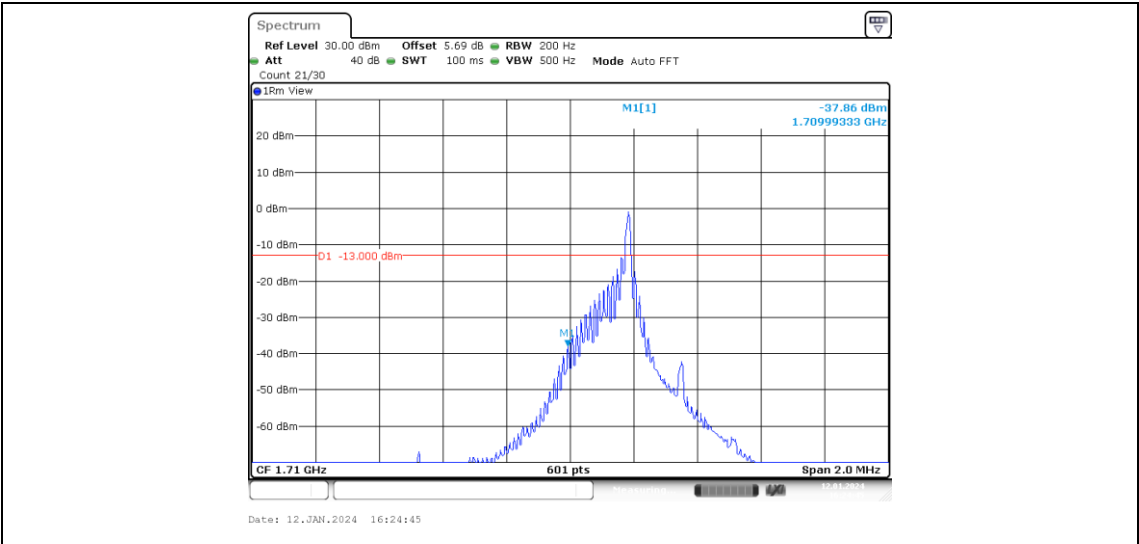
Band66-Stand-Alone-NaN-BPSK-132671-1@11-15kHz--13.62-PASS



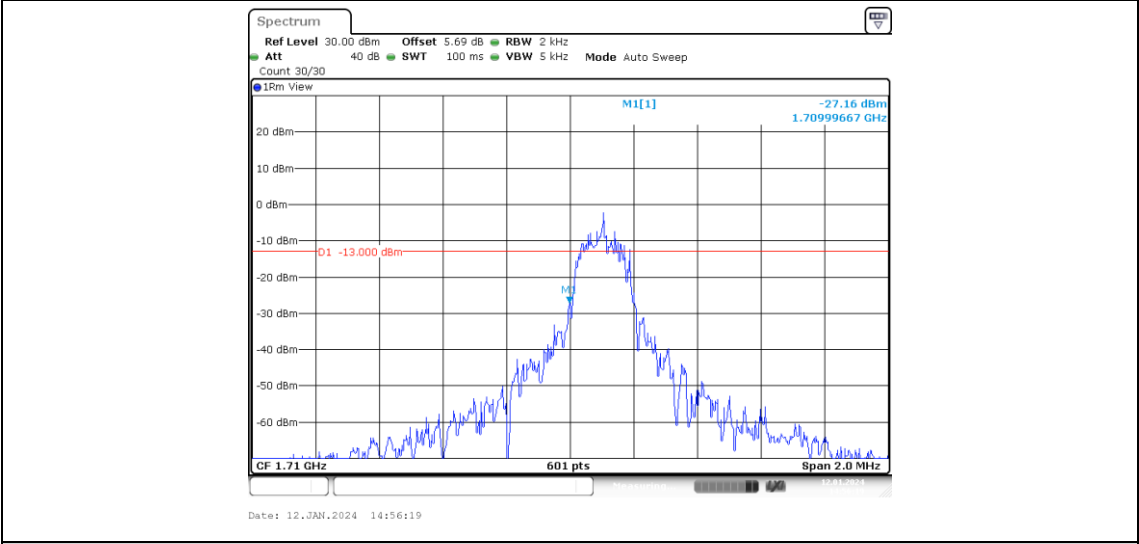
Band66-Stand-Alone-NaN-BPSK-132671-12@0-15kHz--24.37-PASS



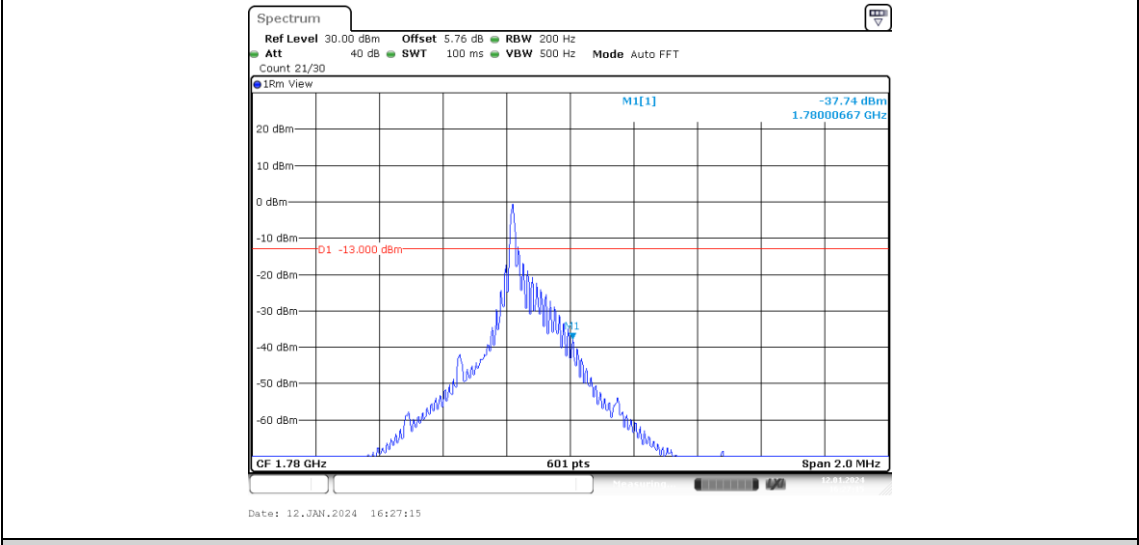
Band66-Stand-Alone-NaN-QPSK-131973-1@0-15kHz--17.92-PASS



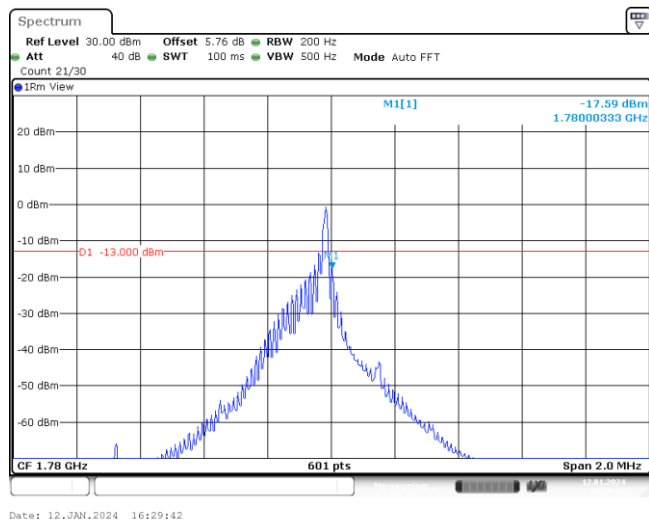
Band66-Stand-Alone-NaN-QPSK-131973-1@11-15kHz--37.86-PASS



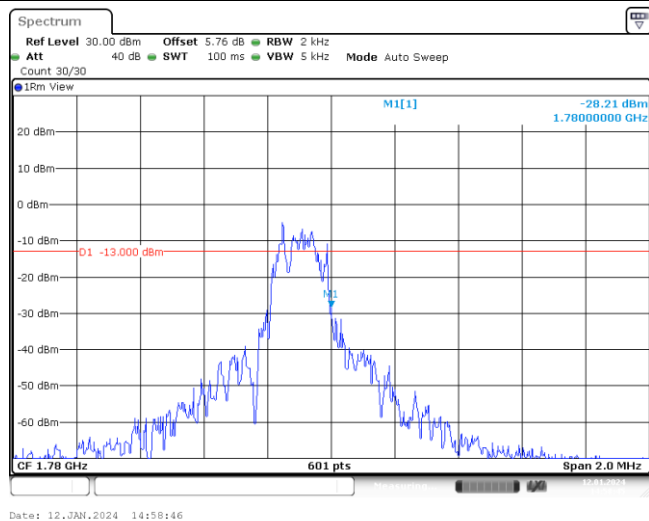
Band66-Stand-Alone-NaN-QPSK-131973-12@0-15kHz--27.16-PASS



Band66-Stand-Alone-NaN-QPSK-132671-1@0-15kHz--37.74-PASS



Band66-Stand-Alone-NaN-QPSK-132671-1@11-15kHz--17.59-PASS



Band66-Stand-Alone-NaN-QPSK-132671-12@0-15kHz--28.21-PASS

Appendix E: Conducted Spurious Emission

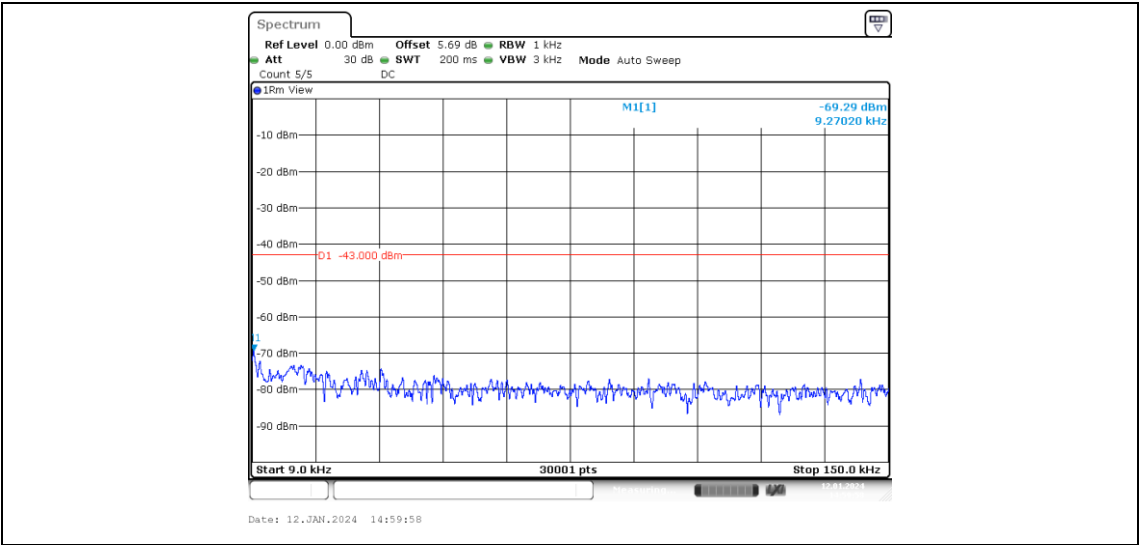
Test Result

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	-69.29	-43	PASS
Band6 6	Stand-Alone	3.75kHz	NaN	QPSK	131973	1@0	0.15	30	-77.84	-33	PASS
Band6 6	Stand-Alone	3.75kHz	NaN	QPSK	131973	1@0	30	1000	-55.06	-13	PASS
Band6 6	Stand-Alone	3.75kHz	NaN	QPSK	131973	1@0	1000	2000 0	-47.53	-13	PASS
Band6 6	Stand-Alone	3.75kHz	NaN	QPSK	131973	1@47	0.009	0.15	-65.98	-43	PASS
Band6 6	Stand-Alone	3.75kHz	NaN	QPSK	131973	1@47	0.15	30	-73.87	-33	PASS
Band6 6	Stand-Alone	3.75kHz	NaN	QPSK	131973	1@47	30	1000	-55.05	-13	PASS
Band6 6	Stand-Alone	3.75kHz	NaN	QPSK	131973	1@47	1000	2000 0	-47.55	-13	PASS
Band6 6	Stand-Alone	3.75kHz	NaN	QPSK	132322	1@0	0.009	0.15	-66.48	-43	PASS
Band6 6	Stand-Alone	3.75kHz	NaN	QPSK	132322	1@0	0.15	30	-77.99	-33	PASS
Band6 6	Stand-Alone	3.75kHz	NaN	QPSK	132322	1@0	30	1000	-54.92	-13	PASS
Band6 6	Stand-Alone	3.75kHz	NaN	QPSK	132322	1@0	1000	2000 0	-46.69	-13	PASS
Band6 6	Stand-Alone	3.75kHz	NaN	QPSK	132322	1@47	0.009	0.15	-66.71	-43	PASS
Band6 6	Stand-Alone	3.75kHz	NaN	QPSK	132322	1@47	0.15	30	-75.66	-33	PASS
Band6 6	Stand-Alone	3.75kHz	NaN	QPSK	132322	1@47	30	1000	-54.93	-13	PASS
Band6 6	Stand-Alone	3.75kHz	NaN	QPSK	132322	1@47	1000	2000 0	-45.14	-13	PASS
Band6 6	Stand-Alone	3.75kHz	NaN	QPSK	132671	1@0	0.009	0.15	-65.47	-43	PASS

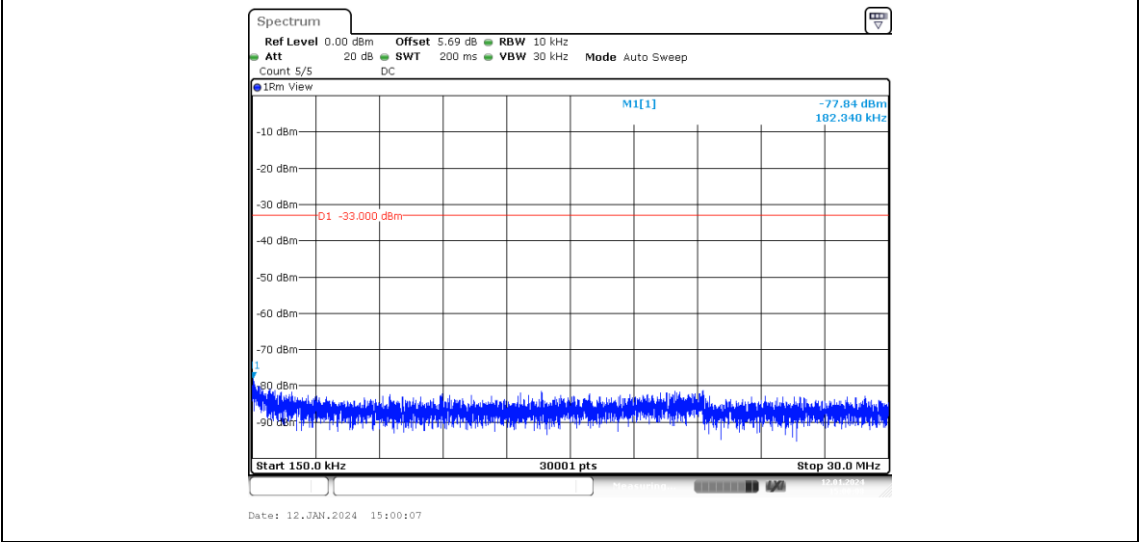
Band6 6	Stand-Alon e	3.75kHz	NaN	QPSK	132671	1@0	0.15	30	-74.58	-33	PASS
Band6 6	Stand-Alon e	3.75kHz	NaN	QPSK	132671	1@0	30	1000	-55.03	-13	PASS
Band6 6	Stand-Alon e	3.75kHz	NaN	QPSK	132671	1@0	1000	2000 0	-44.75	-13	PASS
Band6 6	Stand-Alon e	3.75kHz	NaN	QPSK	132671	1@47	0.009	0.15	-65.24	-43	PASS
Band6 6	Stand-Alon e	3.75kHz	NaN	QPSK	132671	1@47	0.15	30	-74	-33	PASS
Band6 6	Stand-Alon e	3.75kHz	NaN	QPSK	132671	1@47	30	1000	-55	-13	PASS
Band6 6	Stand-Alon e	3.75kHz	NaN	QPSK	132671	1@47	1000	2000 0	-44.02	-13	PASS
Band6 6	Stand-Alon e	15kHz	NaN	BPSK	131973	1@0	0.009	0.15	-70.59	-43	PASS
Band6 6	Stand-Alon e	15kHz	NaN	BPSK	131973	1@0	0.15	30	-76.83	-33	PASS
Band6 6	Stand-Alon e	15kHz	NaN	BPSK	131973	1@0	30	1000	-55.05	-13	PASS
Band6 6	Stand-Alon e	15kHz	NaN	BPSK	131973	1@0	1000	2000 0	-47.36	-13	PASS
Band6 6	Stand-Alon e	15kHz	NaN	BPSK	131973	1@11	0.009	0.15	-69.47	-43	PASS
Band6 6	Stand-Alon e	15kHz	NaN	BPSK	131973	1@11	0.15	30	-77.22	-33	PASS
Band6 6	Stand-Alon e	15kHz	NaN	BPSK	131973	1@11	30	1000	-55.07	-13	PASS
Band6 6	Stand-Alon e	15kHz	NaN	BPSK	131973	1@11	1000	2000 0	-47.65	-13	PASS
Band6 6	Stand-Alon e	15kHz	NaN	BPSK	132322	1@0	0.009	0.15	-66.15	-43	PASS
Band6 6	Stand-Alon e	15kHz	NaN	BPSK	132322	1@0	0.15	30	-76.84	-33	PASS
Band6 6	Stand-Alon e	15kHz	NaN	BPSK	132322	1@0	30	1000	-55	-13	PASS
Band6 6	Stand-Alon e	15kHz	NaN	BPSK	132322	1@0	1000	2000 0	-47.48	-13	PASS
Band6 6	Stand-Alon e	15kHz	NaN	BPSK	132322	1@11	0.009	0.15	-70.73	-43	PASS
Band6 6	Stand-Alon e	15kHz	NaN	BPSK	132322	1@11	0.15	30	-74.44	-33	PASS
Band6 6	Stand-Alon	15kHz	NaN	BPSK	132322	1@11	30	1000	-54.9	-13	PASS

6	e										
Band6 6	Stand-Alon e	15kHz	NaN	BPSK	132322	1@11	1000	2000 0	-47.47	-13	PASS
Band6 6	Stand-Alon e	15kHz	NaN	BPSK	132671	1@0	0.009	0.15	-68.01	-43	PASS
Band6 6	Stand-Alon e	15kHz	NaN	BPSK	132671	1@0	0.15	30	-69.18	-33	PASS
Band6 6	Stand-Alon e	15kHz	NaN	BPSK	132671	1@0	30	1000	-55.04	-13	PASS
Band6 6	Stand-Alon e	15kHz	NaN	BPSK	132671	1@0	1000	2000 0	-47.84	-13	PASS
Band6 6	Stand-Alon e	15kHz	NaN	BPSK	132671	1@11	0.009	0.15	-69.58	-43	PASS
Band6 6	Stand-Alon e	15kHz	NaN	BPSK	132671	1@11	0.15	30	-73.6	-33	PASS
Band6 6	Stand-Alon e	15kHz	NaN	BPSK	132671	1@11	30	1000	-55.01	-13	PASS
Band6 6	Stand-Alon e	15kHz	NaN	BPSK	132671	1@11	1000	2000 0	-43.71	-13	PASS
Band6 6	Stand-Alon e	15kHz	NaN	QPSK	131973	12@0	0.009	0.15	-71.06	-43	PASS
Band6 6	Stand-Alon e	15kHz	NaN	QPSK	131973	12@0	0.15	30	-79.14	-33	PASS
Band6 6	Stand-Alon e	15kHz	NaN	QPSK	131973	12@0	30	1000	-55.09	-13	PASS
Band6 6	Stand-Alon e	15kHz	NaN	QPSK	131973	12@0	1000	2000 0	-47.29	-13	PASS
Band6 6	Stand-Alon e	15kHz	NaN	QPSK	132322	12@0	0.009	0.15	-71.27	-43	PASS
Band6 6	Stand-Alon e	15kHz	NaN	QPSK	132322	12@0	0.15	30	-76.09	-33	PASS
Band6 6	Stand-Alon e	15kHz	NaN	QPSK	132322	12@0	30	1000	-55.06	-13	PASS
Band6 6	Stand-Alon e	15kHz	NaN	QPSK	132322	12@0	1000	2000 0	-47.58	-13	PASS
Band6 6	Stand-Alon e	15kHz	NaN	QPSK	132671	12@0	0.009	0.15	-67.58	-43	PASS
Band6 6	Stand-Alon e	15kHz	NaN	QPSK	132671	12@0	0.15	30	-71.64	-33	PASS
Band6 6	Stand-Alon e	15kHz	NaN	QPSK	132671	12@0	30	1000	-55.02	-13	PASS
Band6 6	Stand-Alon e	15kHz	NaN	QPSK	132671	12@0	1000	2000 0	-47.67	-13	PASS

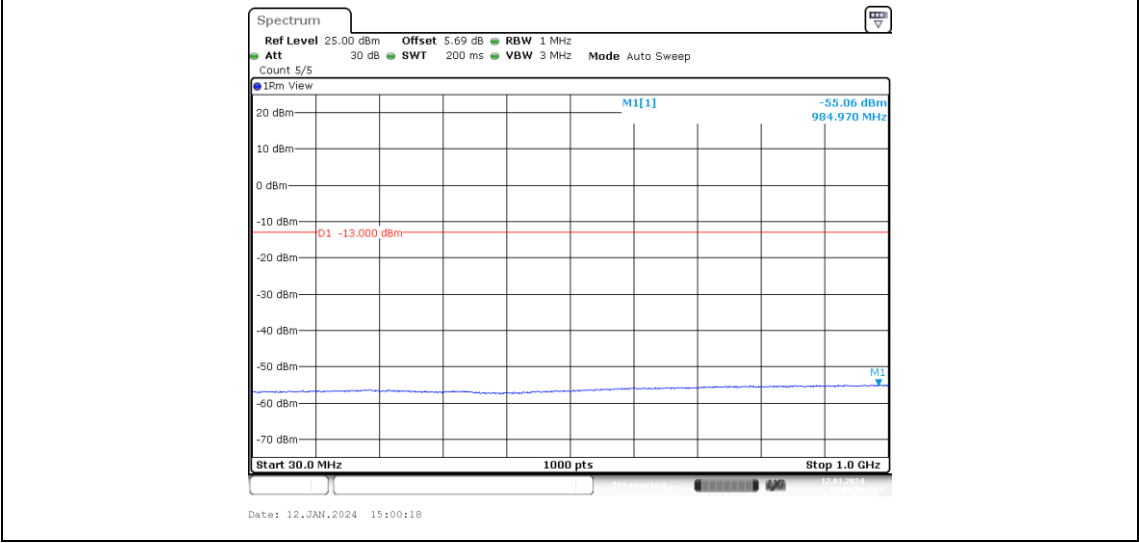
Test Graphs



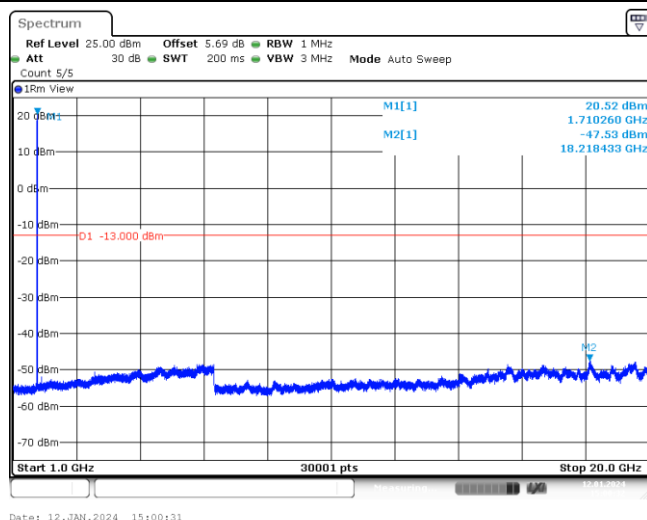
Band66-Stand-Alone-NaN-QPSK-131973-1@0-3.75kHz-0.009-0.15--69.29--43-PASS



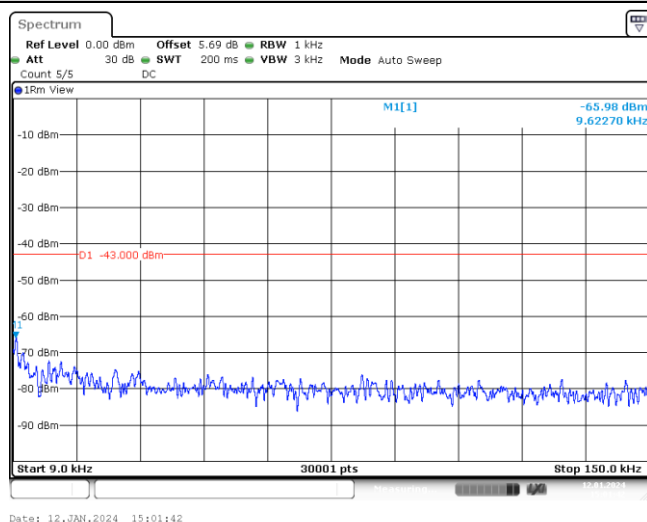
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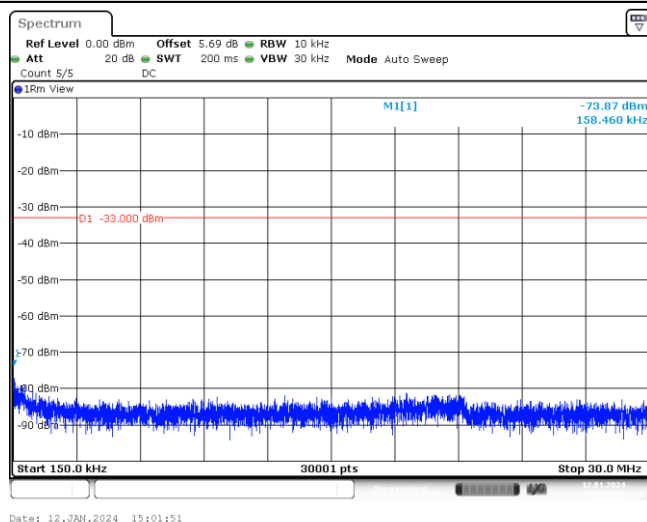
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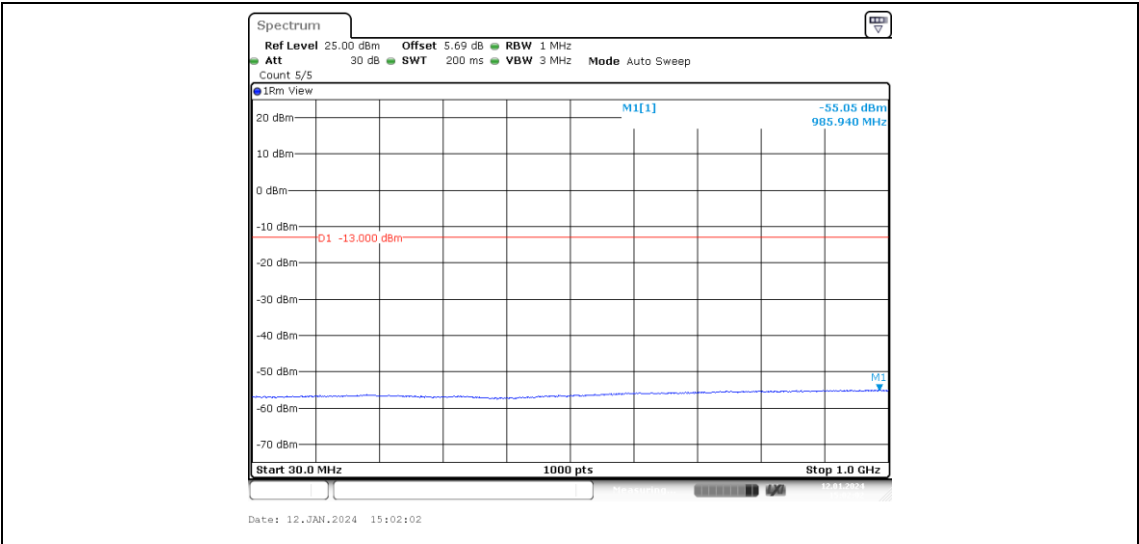
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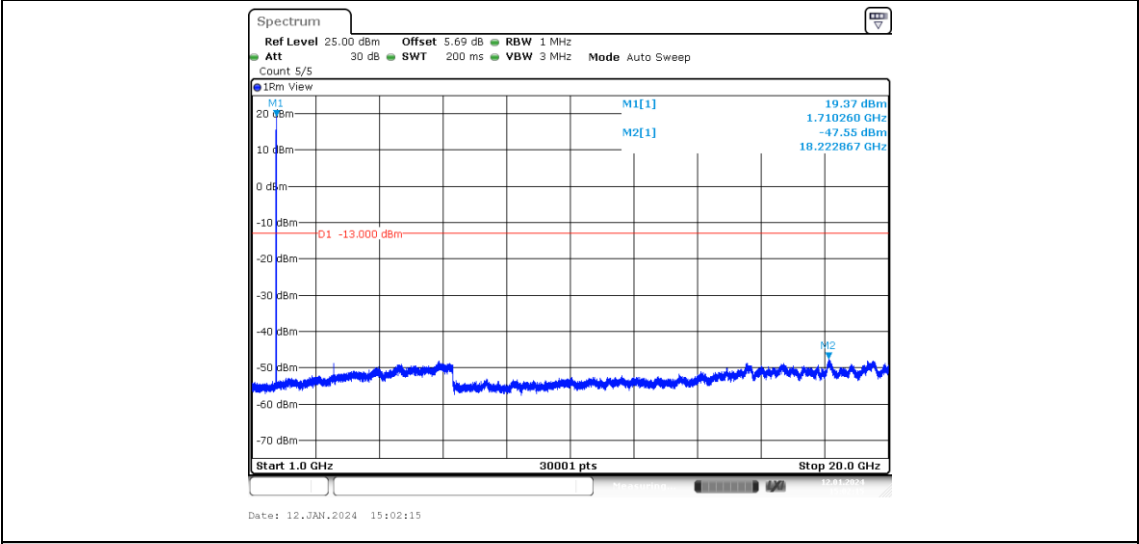
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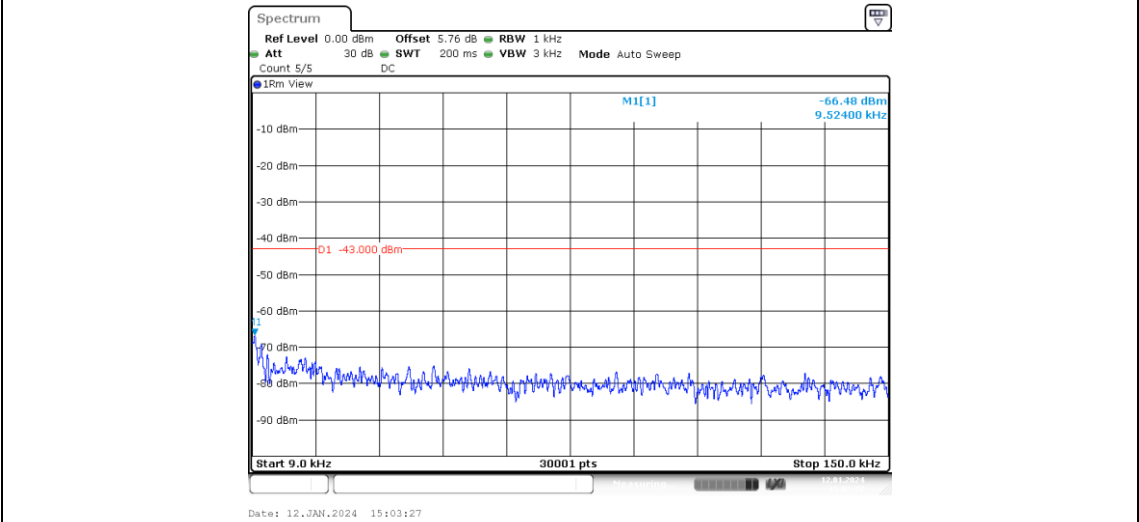
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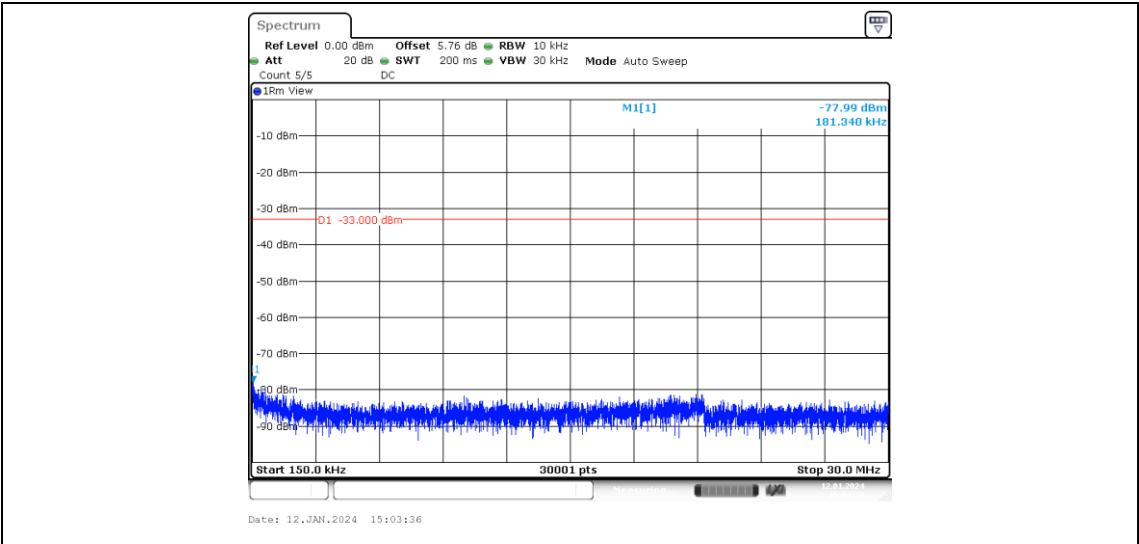
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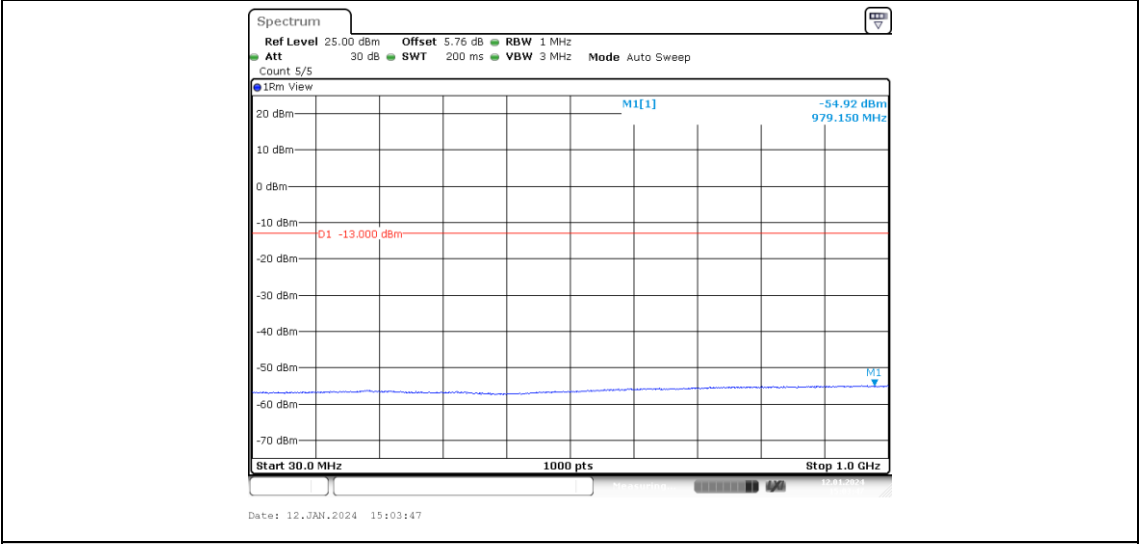
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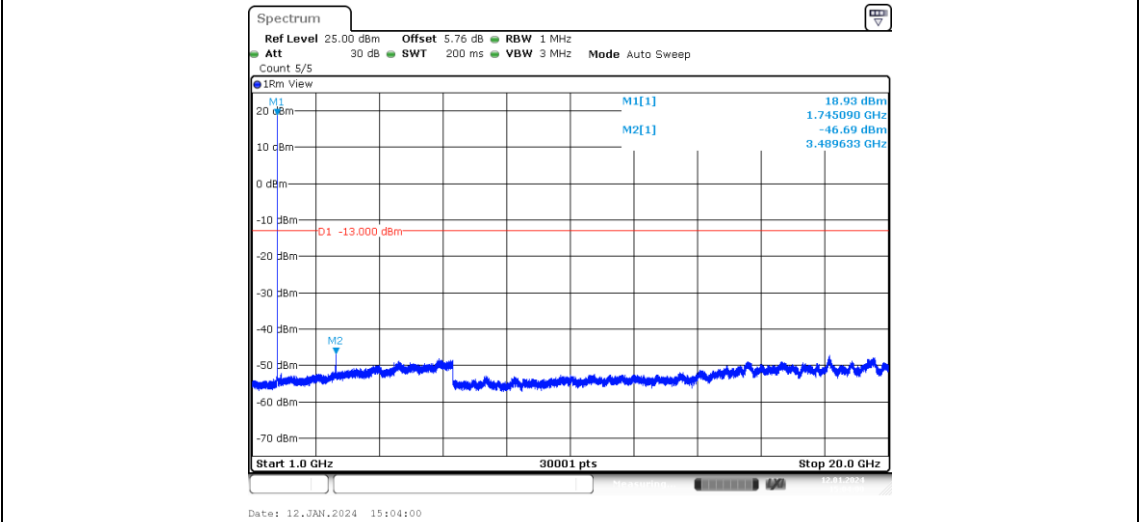
Band66-Stand-Alone-NaN-QPSK-132322-1@0-3.75kHz-0.009-0.15--66.48--43-PASS



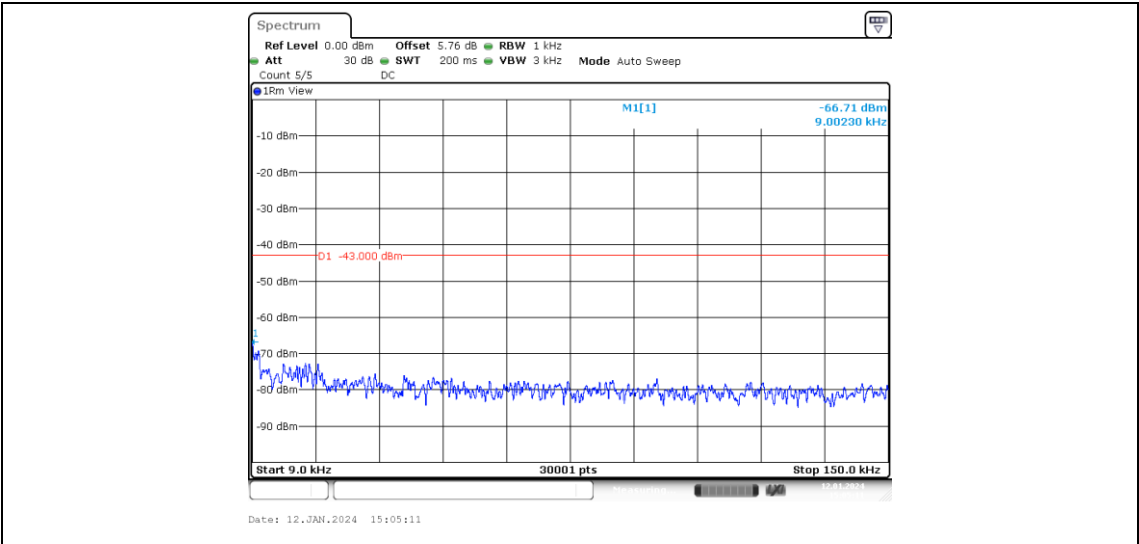
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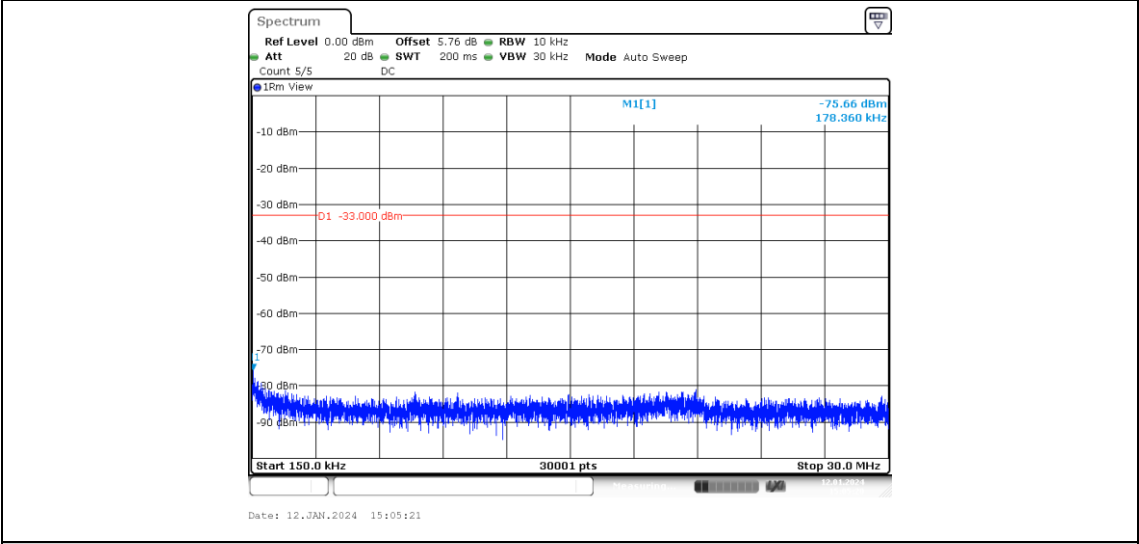
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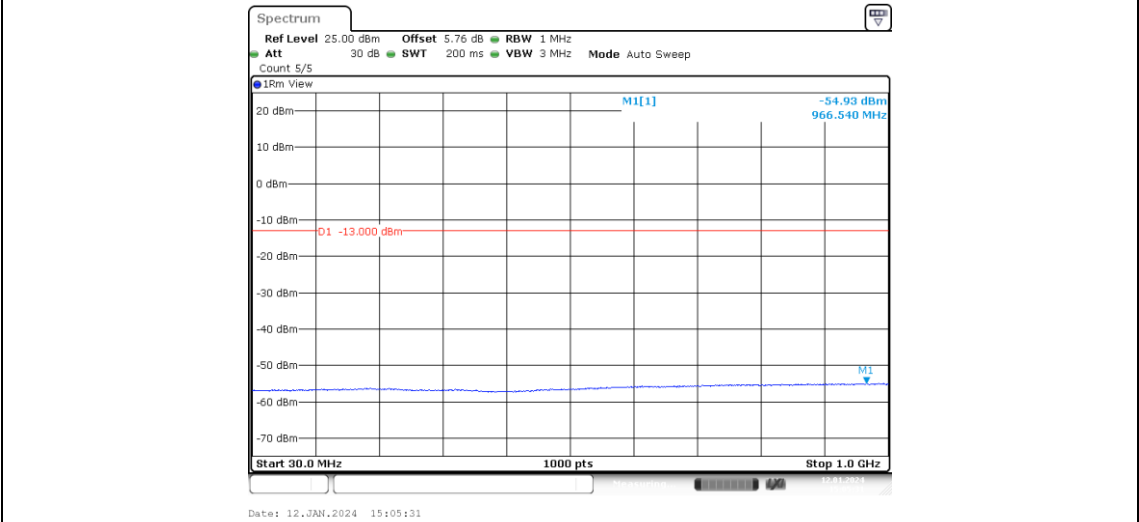
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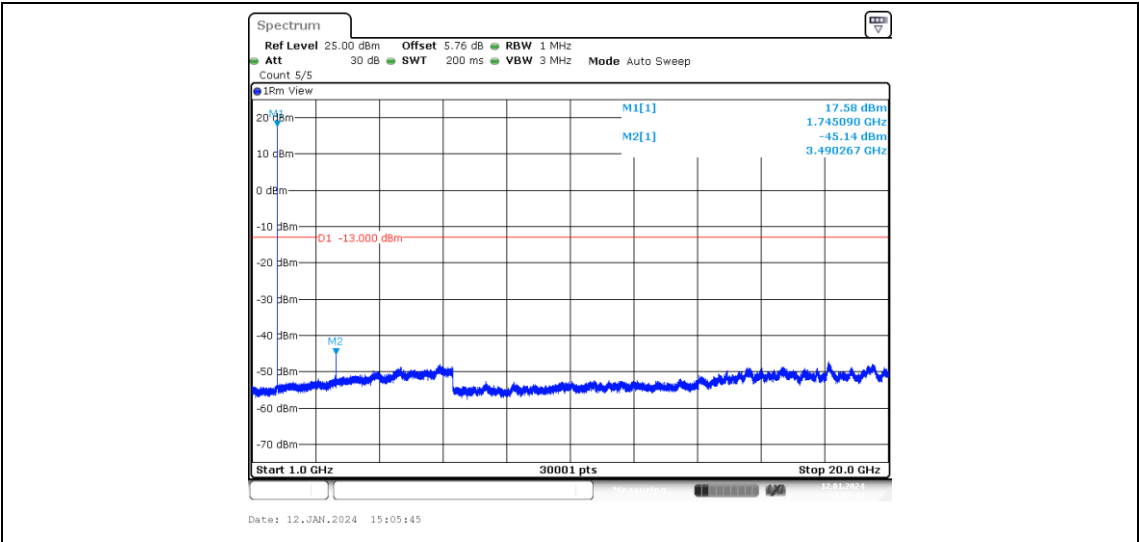
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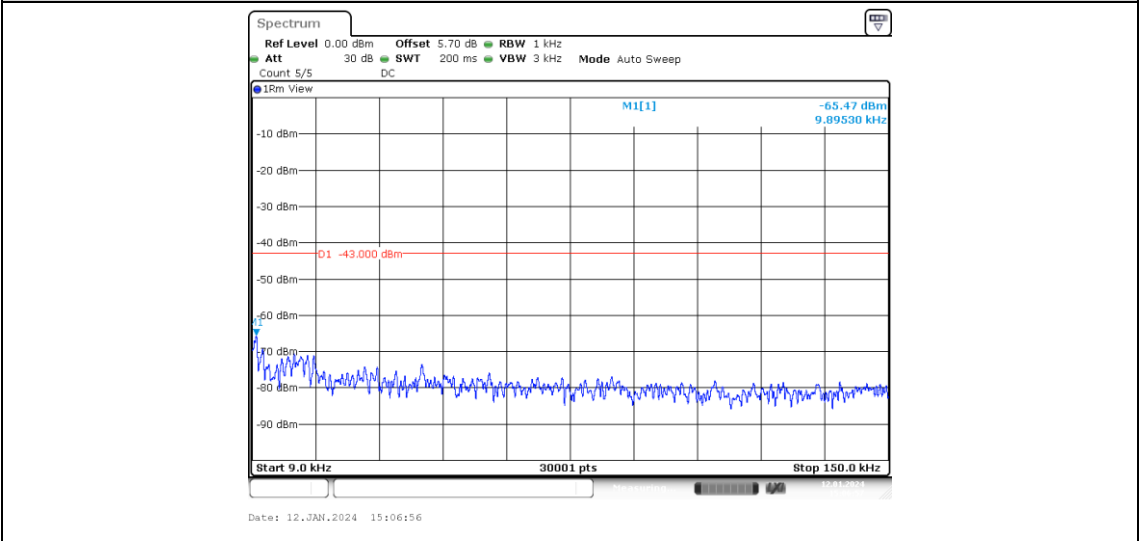
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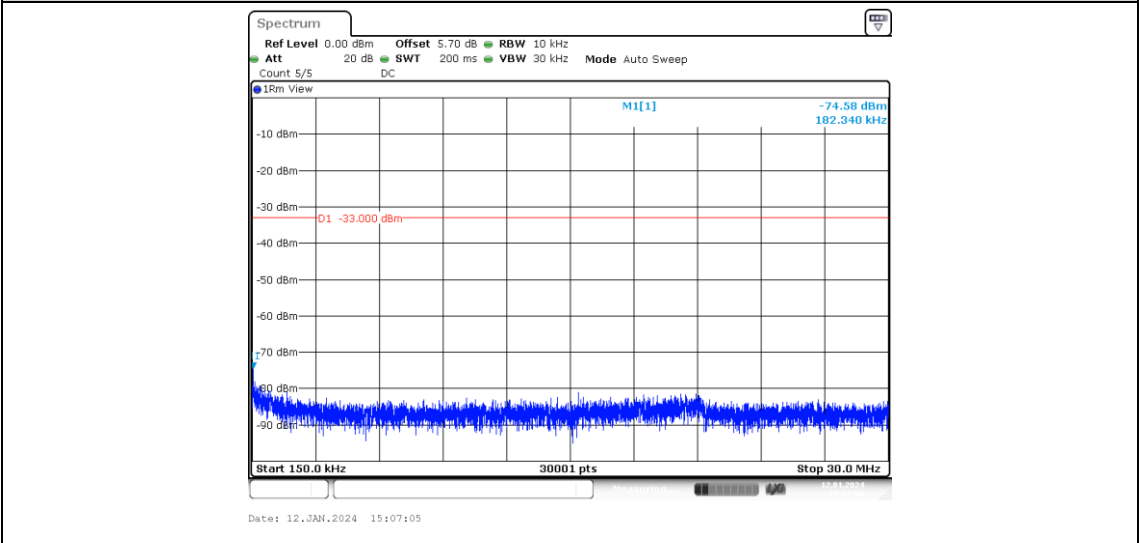
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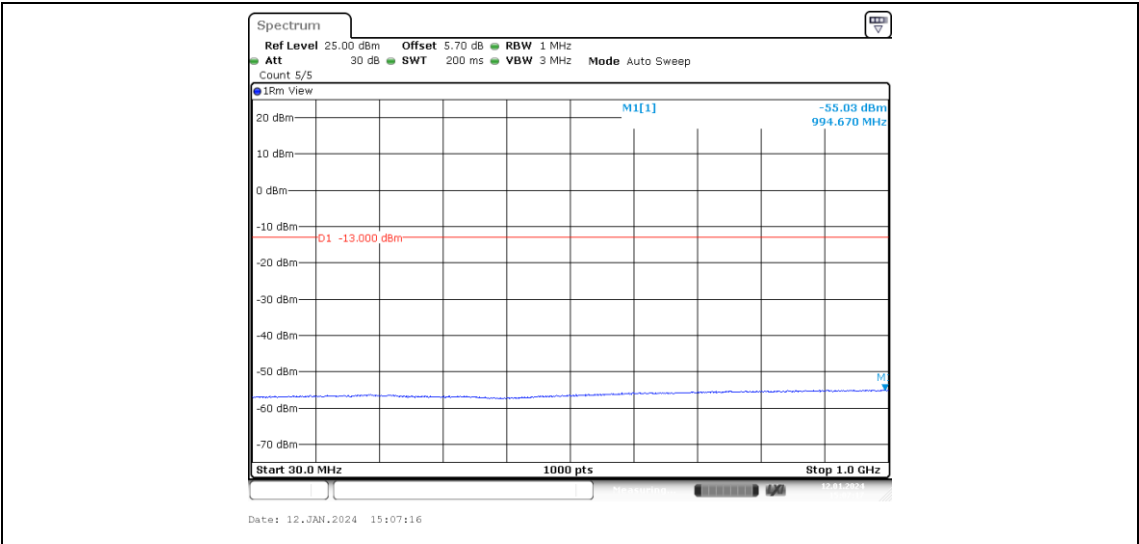
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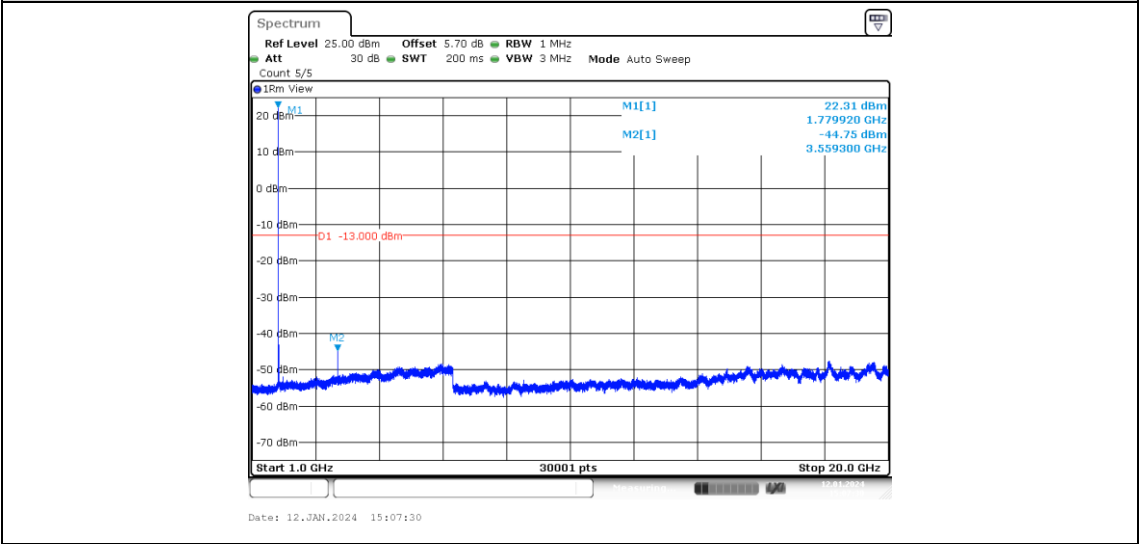
Band66-Stand-Alone-NaN-QPSK-132671-1@0-3.75kHz-0.009-0.15--65.47--43-PASS



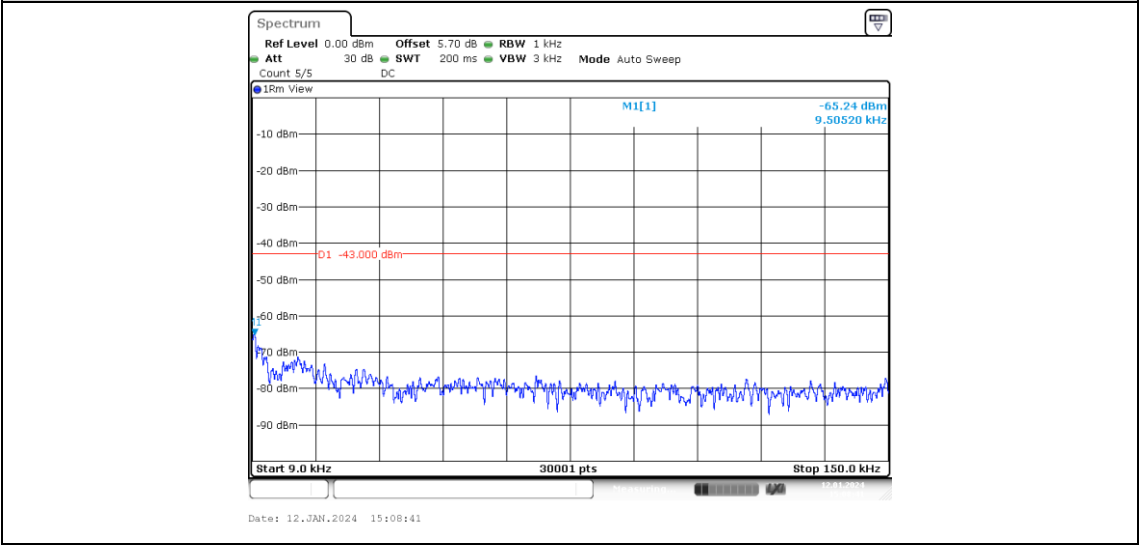
Band66-Stand-Alone-NaN-QPSK-132671-1@0-3.75kHz-0.15-30--74.58--33-PASS



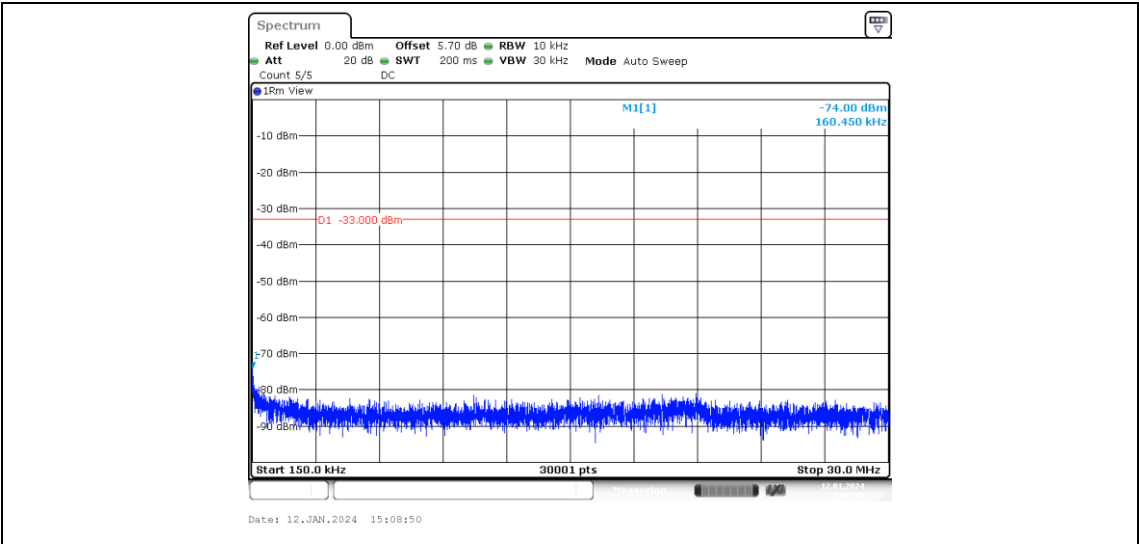
Band66-Stand-Alone-NaN-QPSK-132671-1@0-3.75kHz-30-1000--55.03--13-PASS



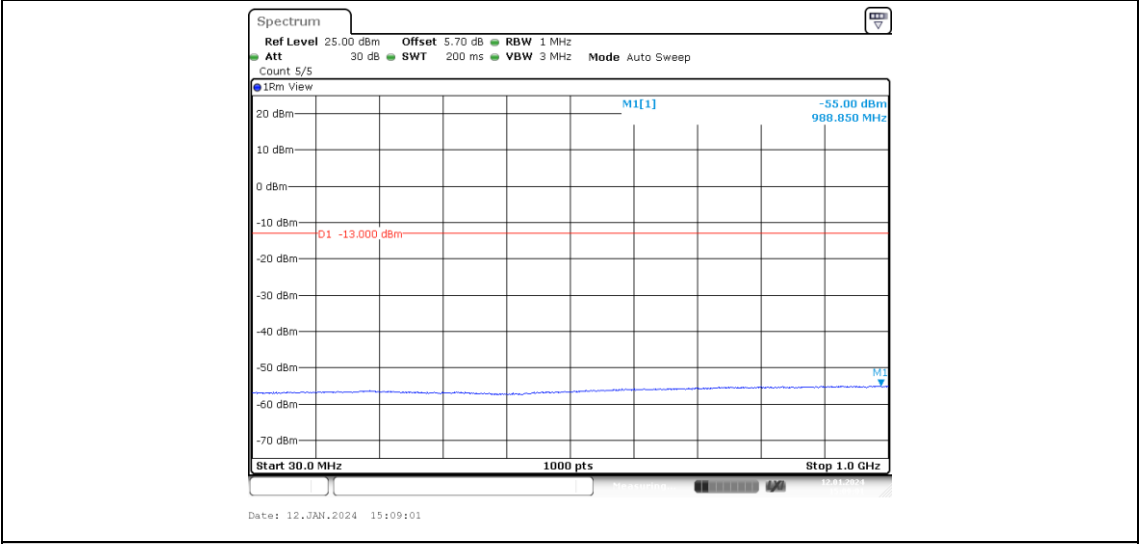
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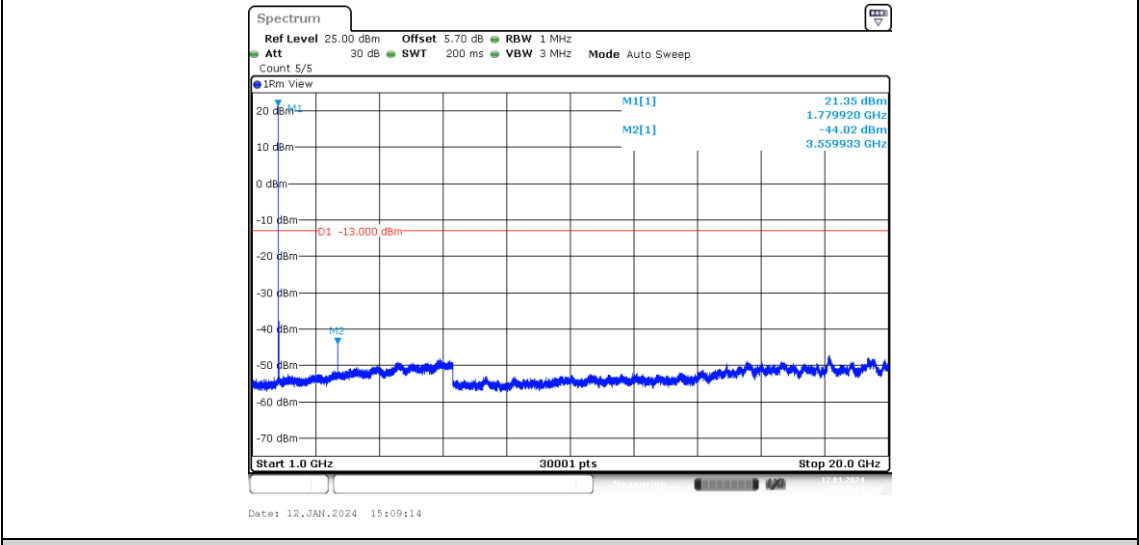
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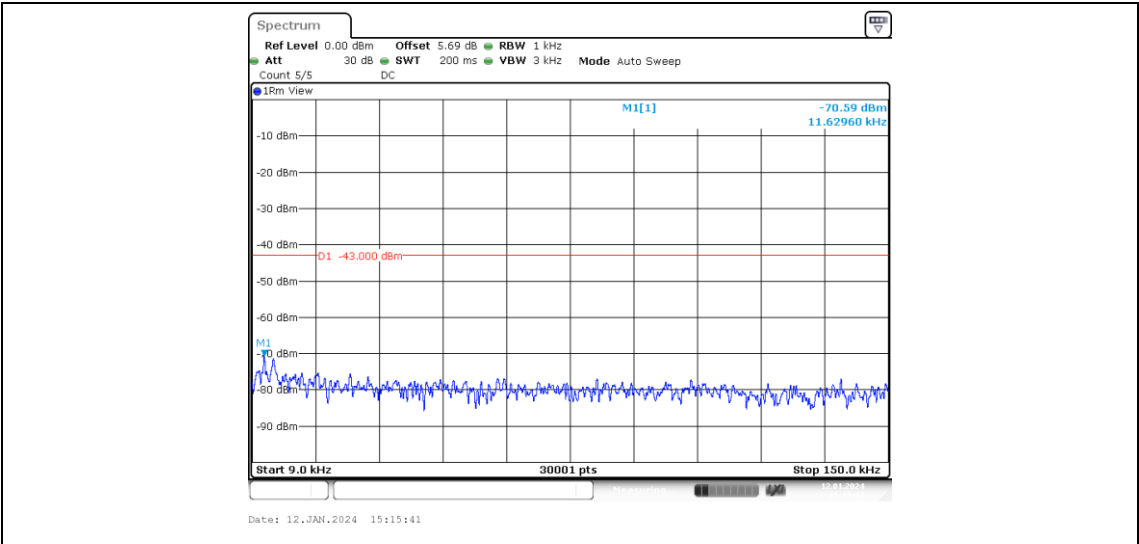
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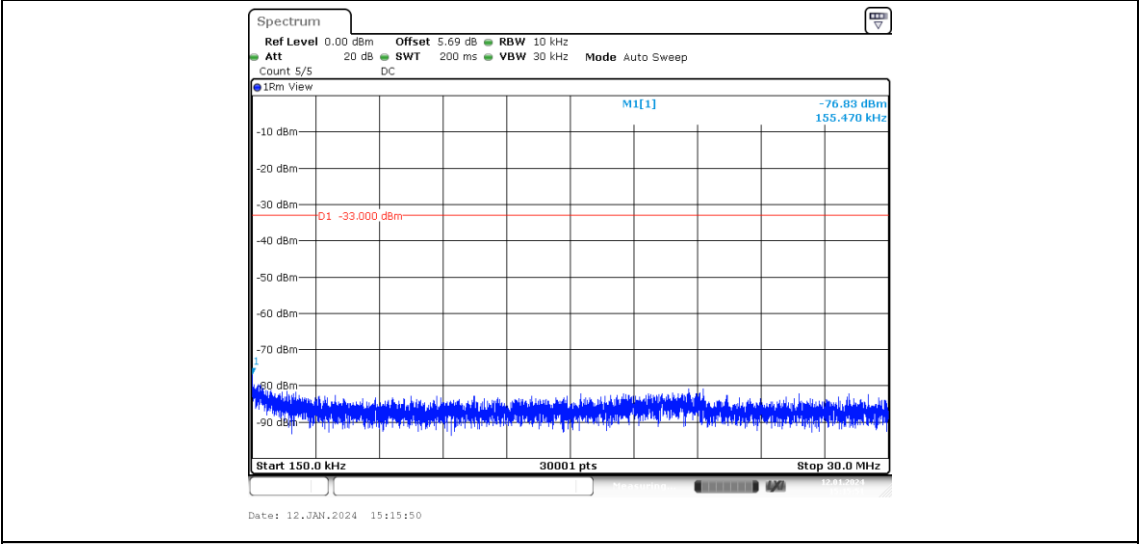
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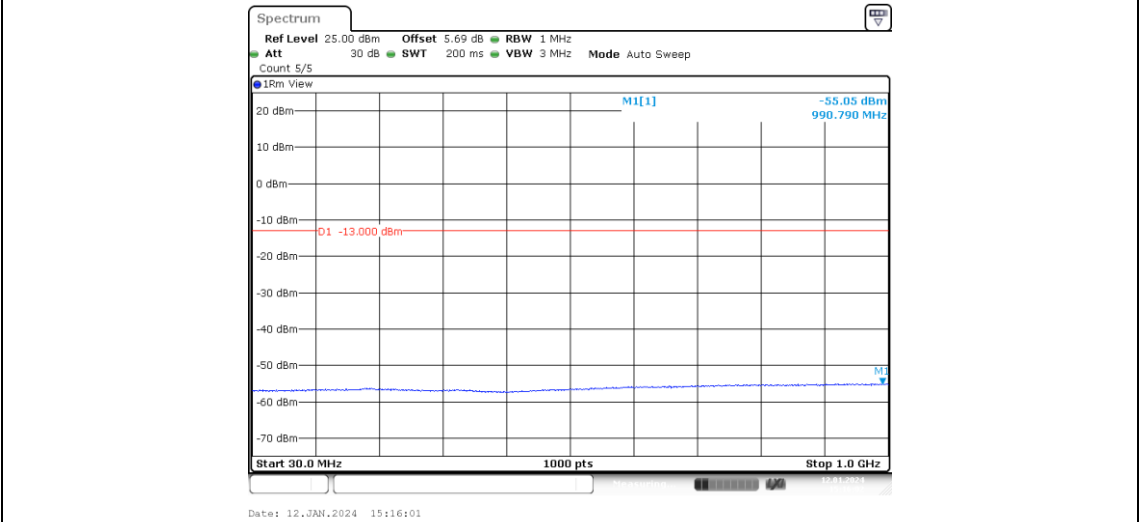
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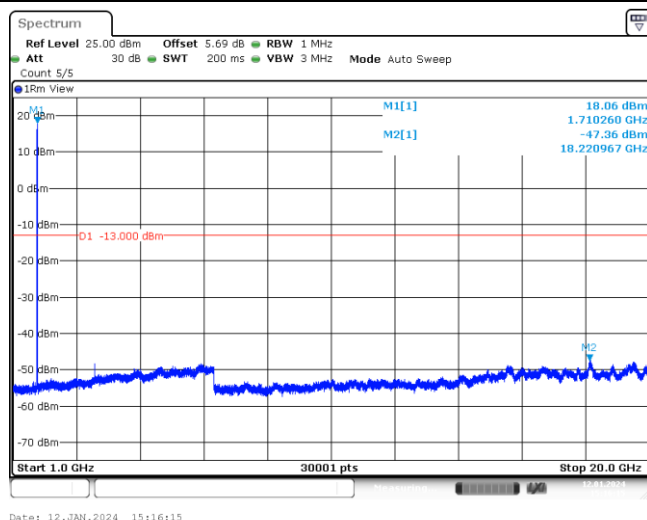
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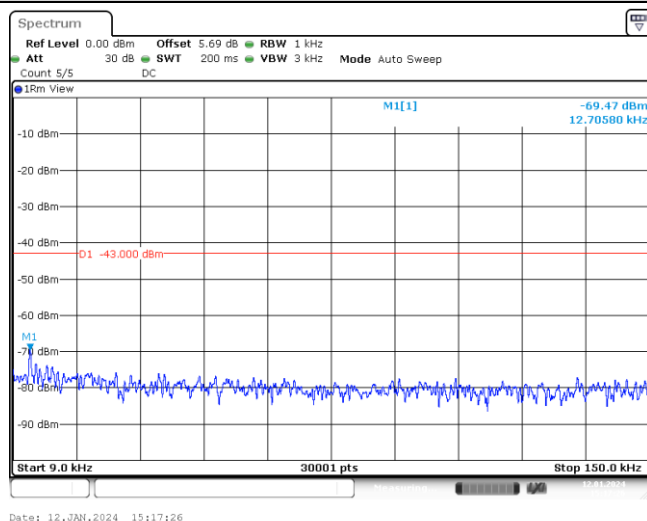
Band66-Stand-Alone-NaN-BPSK-131973-1@0-15kHz-0.15-30--76.83--33-PASS



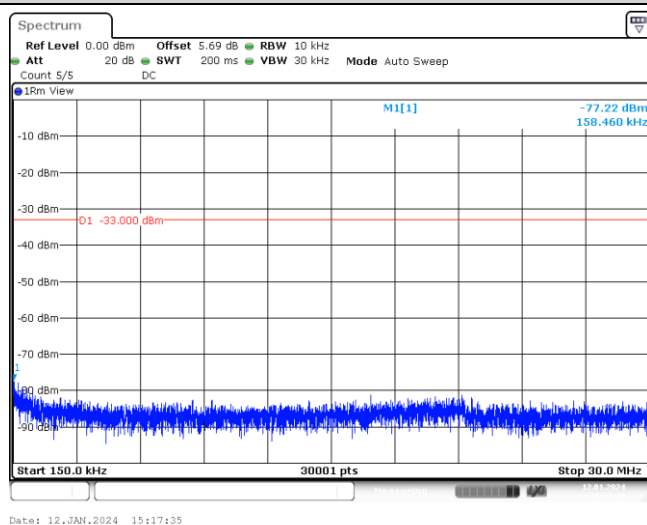
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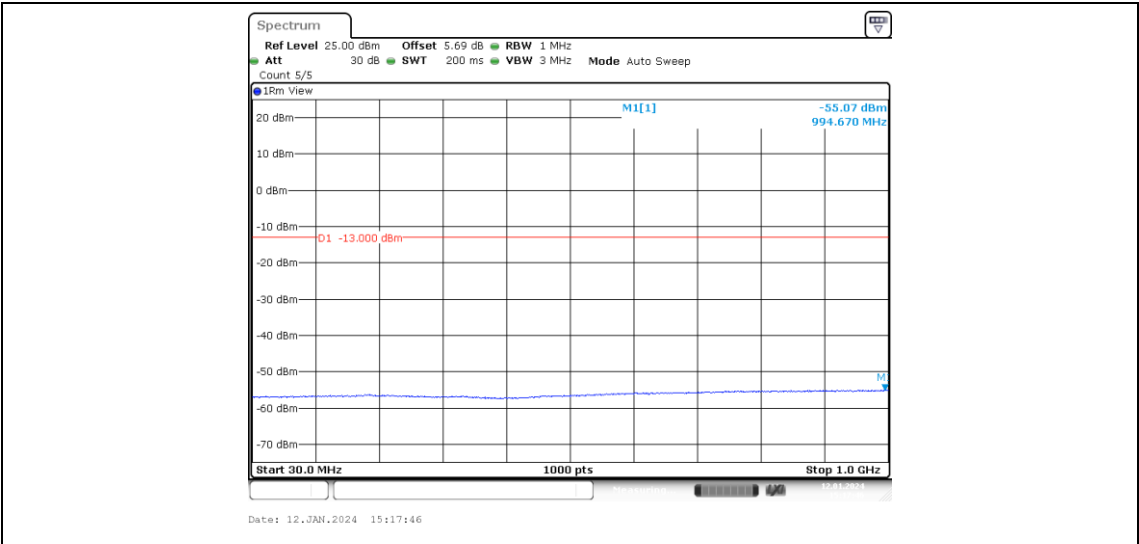
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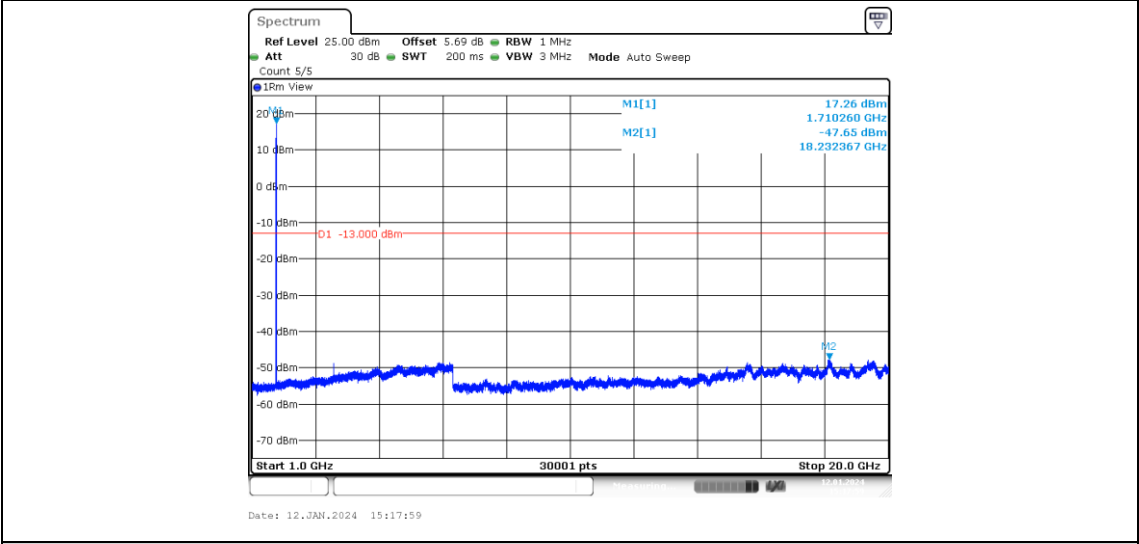
Band66-Stand-Alone-NaN-BPSK-131973-1@11-15kHz-0.009-0.15--77.22--43-PASS



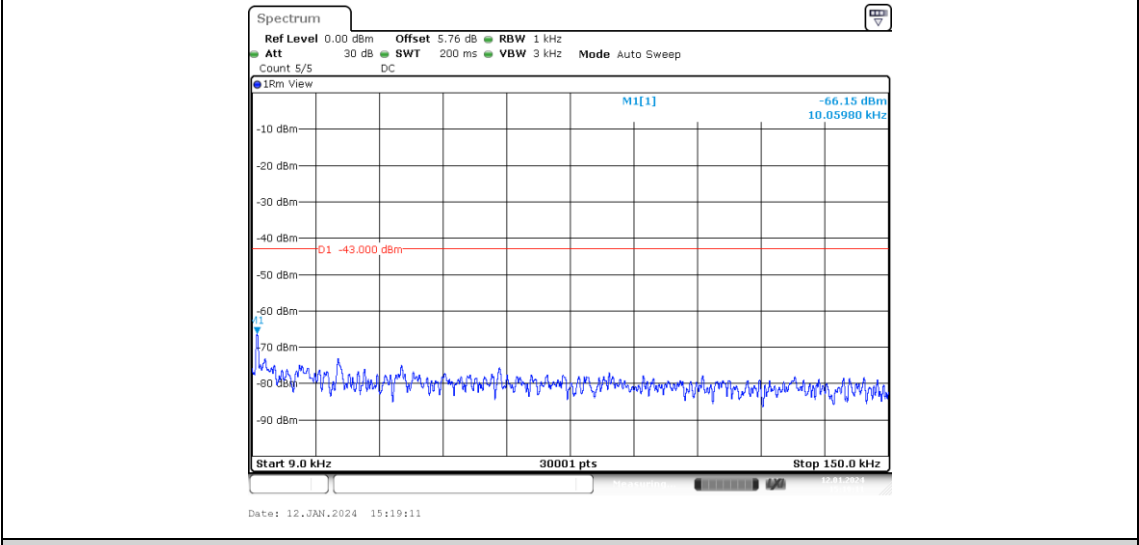
Band66-Stand-Alone-NaN-BPSK-131973-1@11-15kHz-0.15-30--77.22--33-PASS



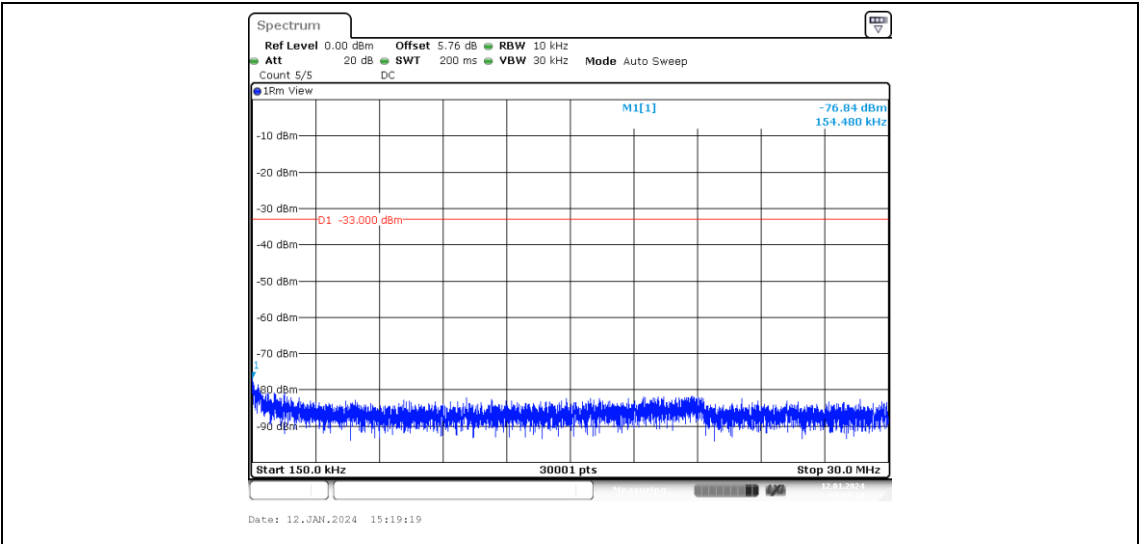
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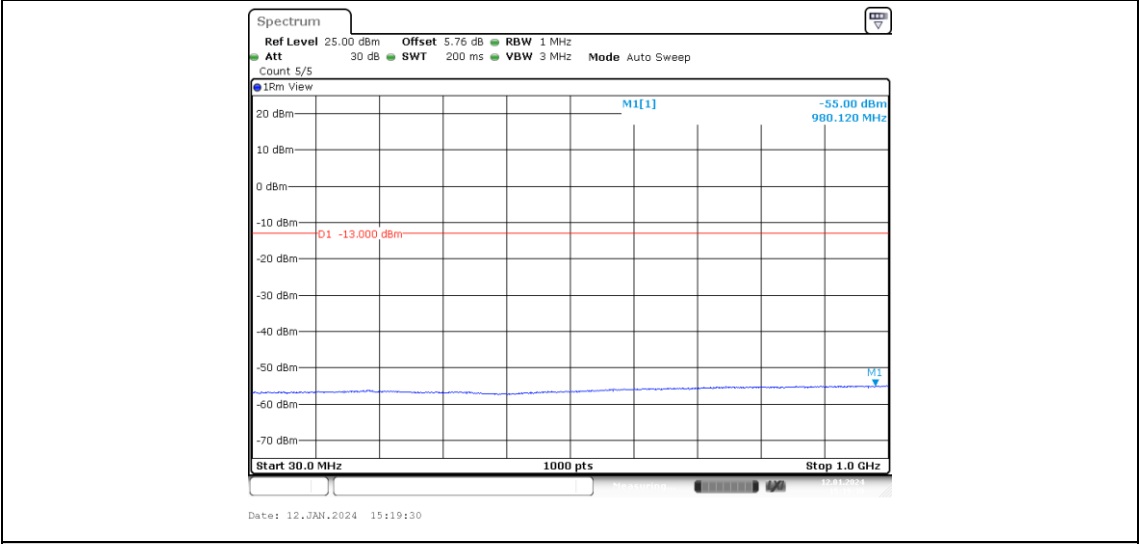
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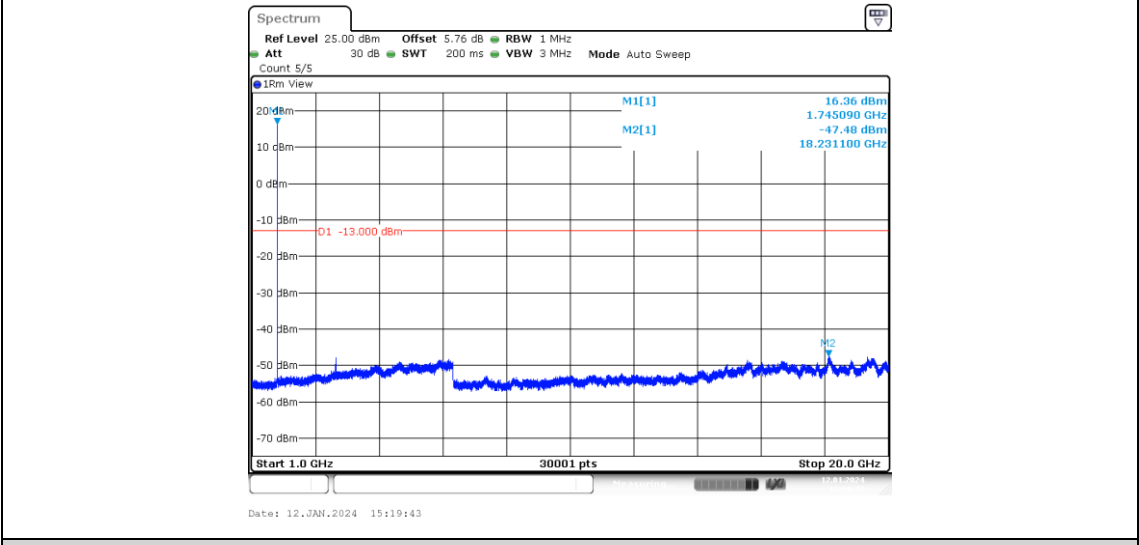
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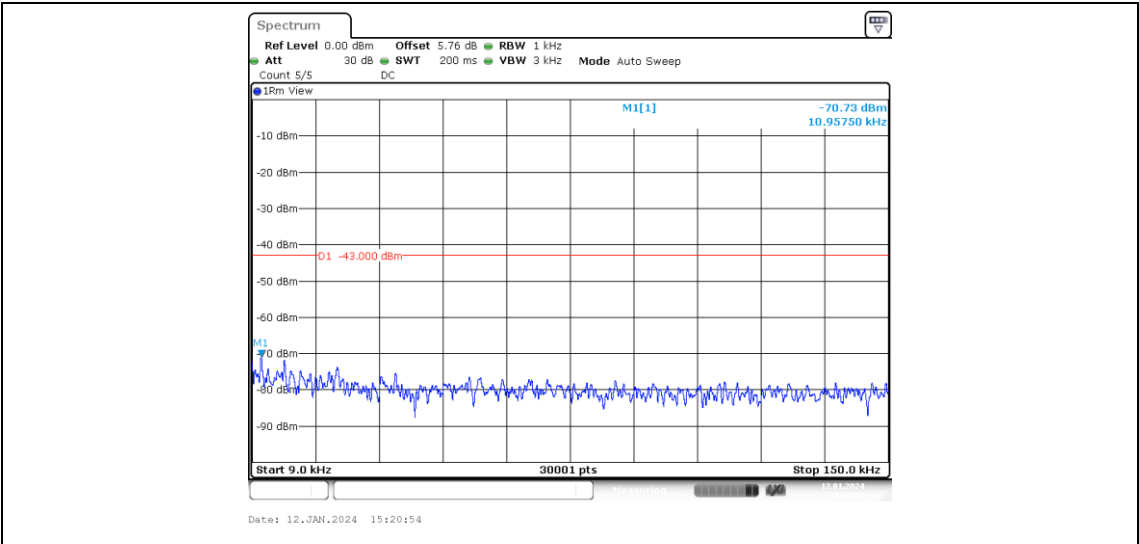
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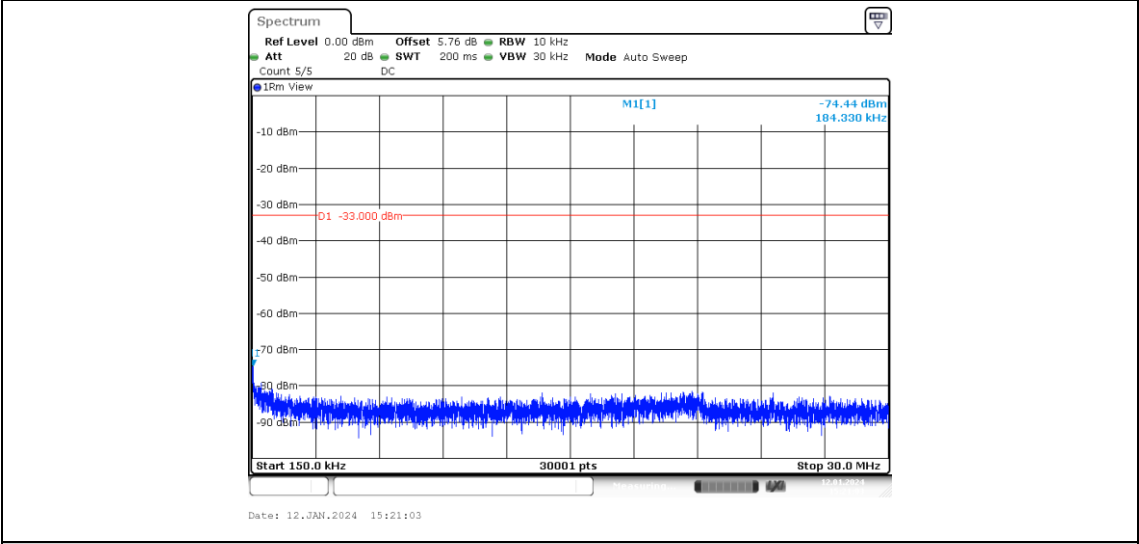
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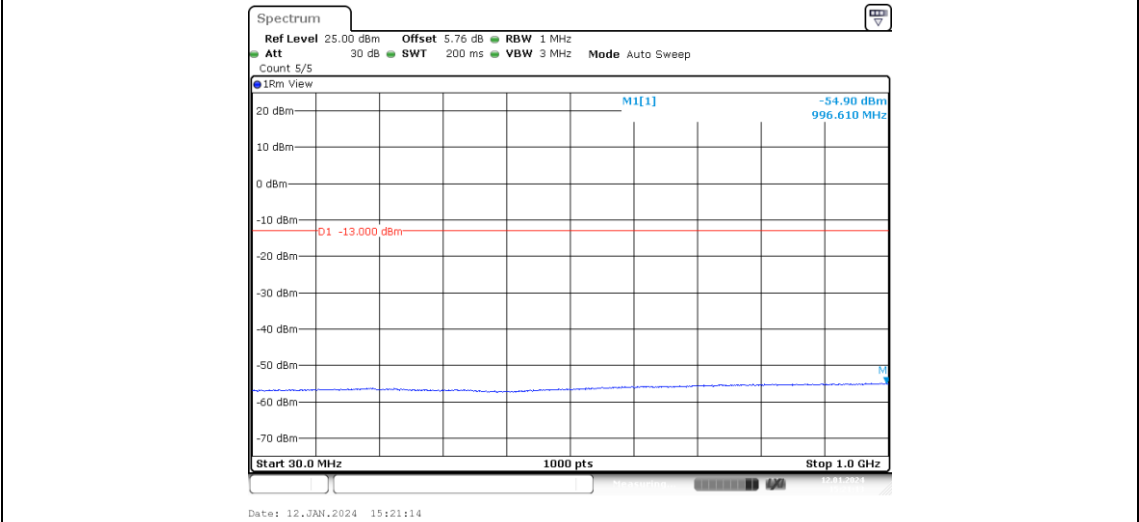
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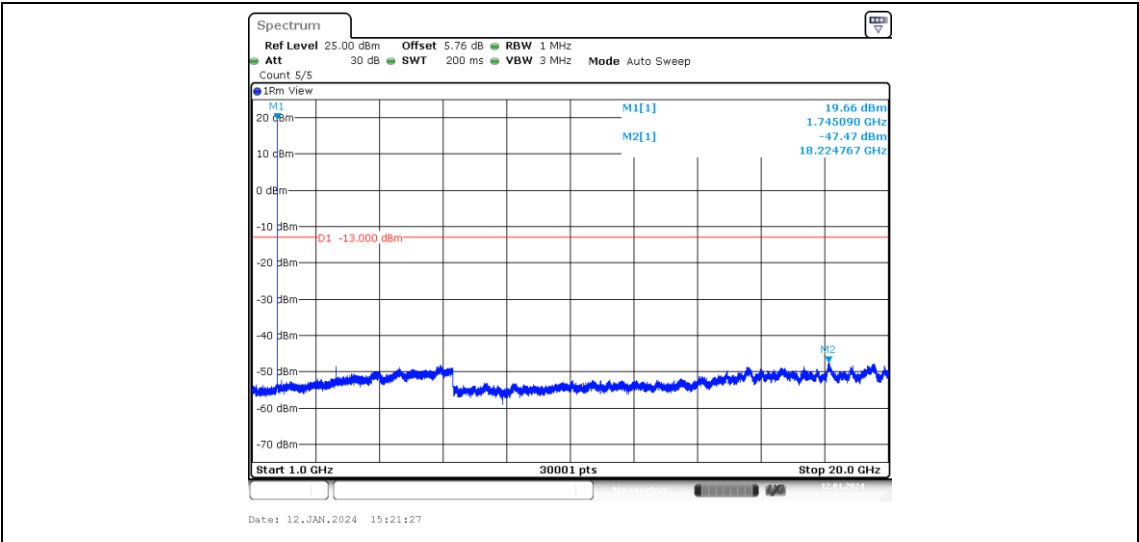
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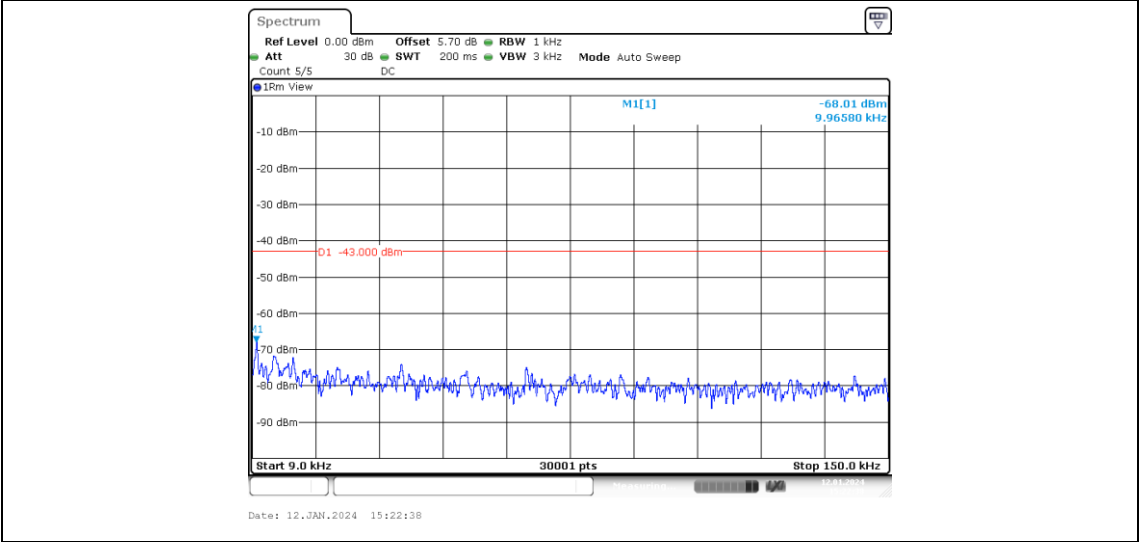
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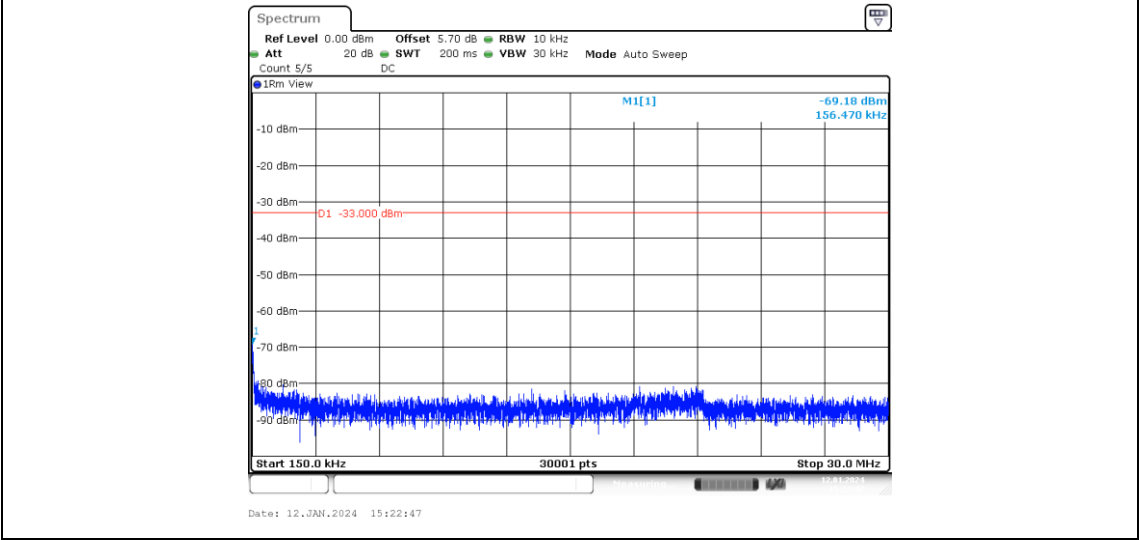
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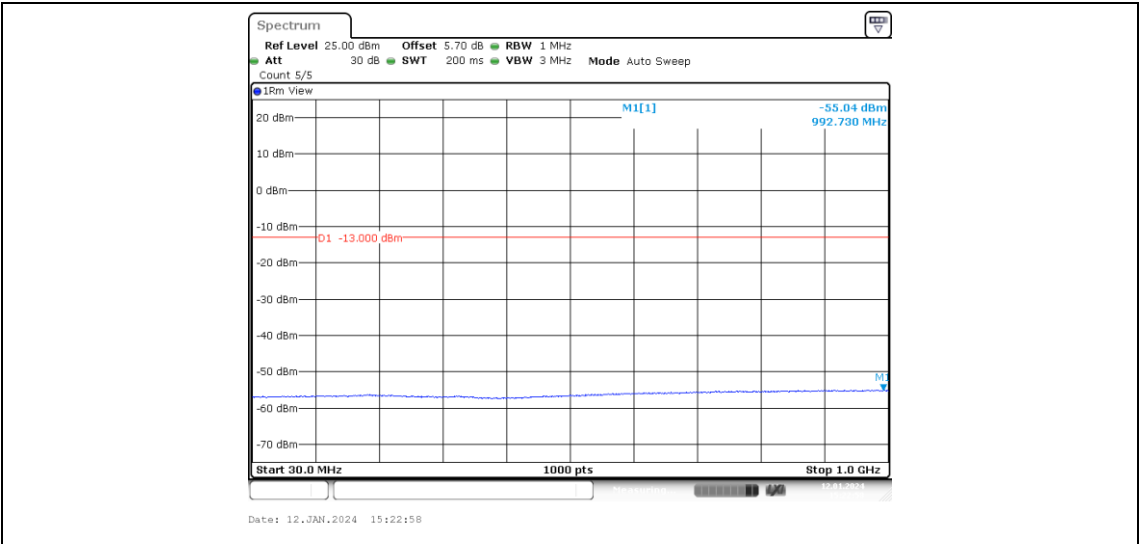
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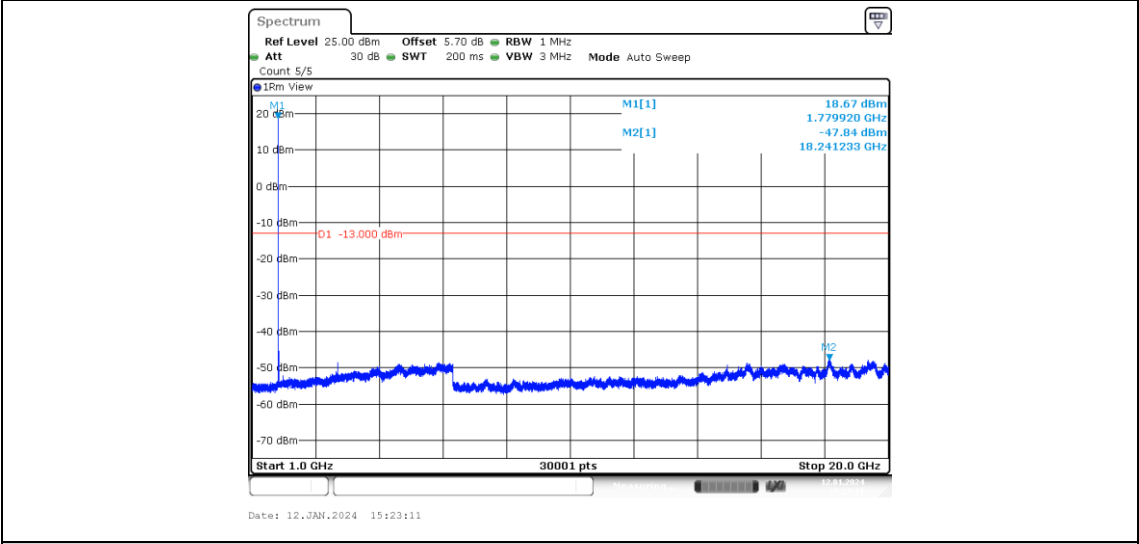
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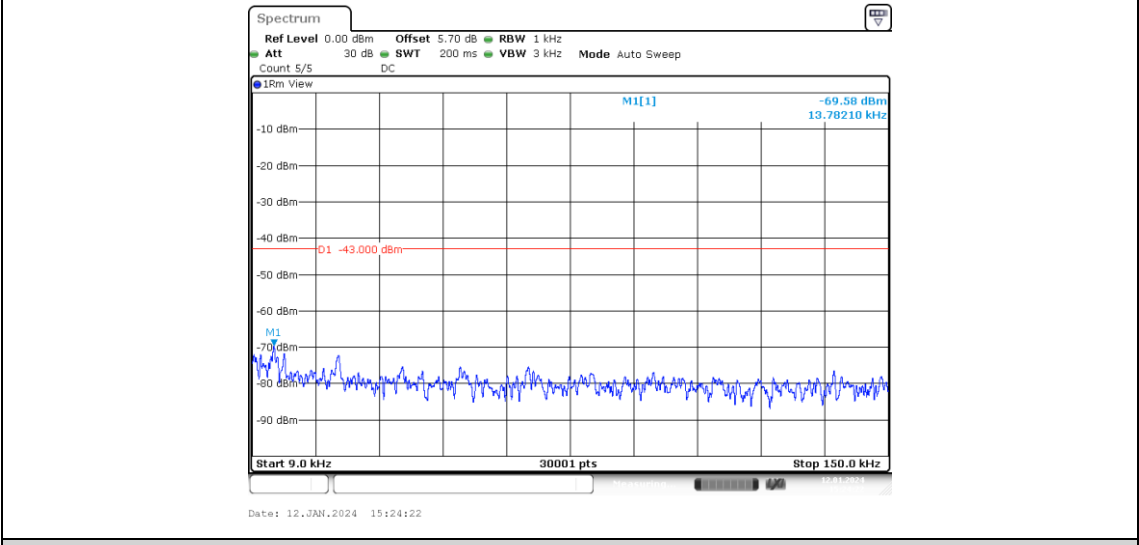
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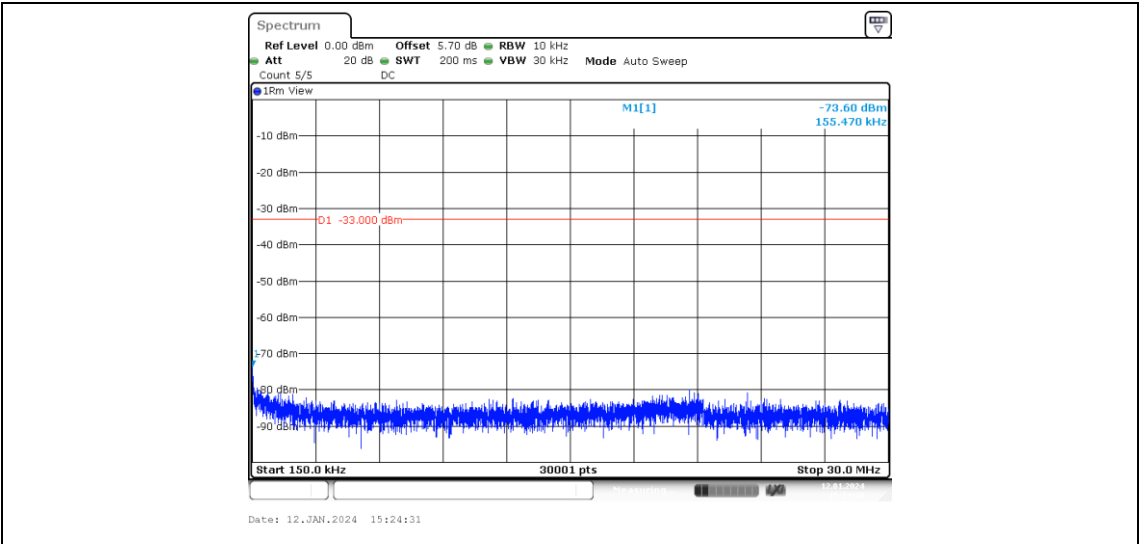
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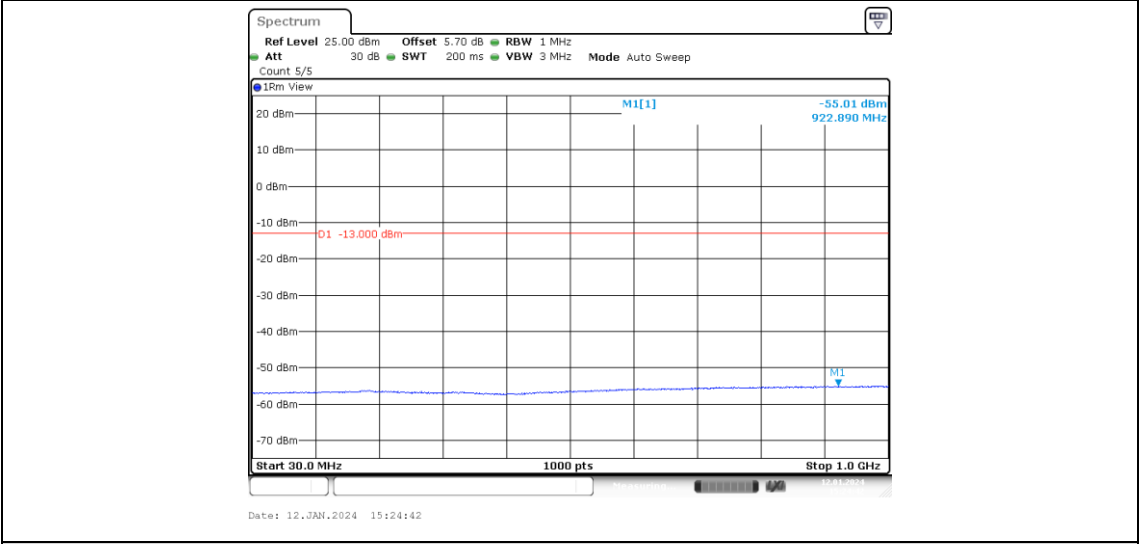
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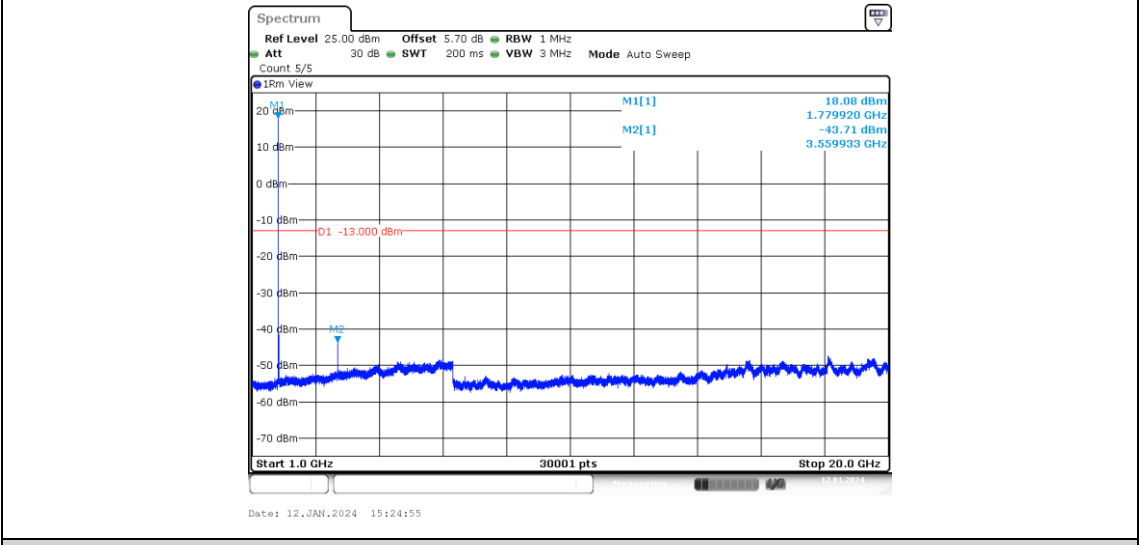
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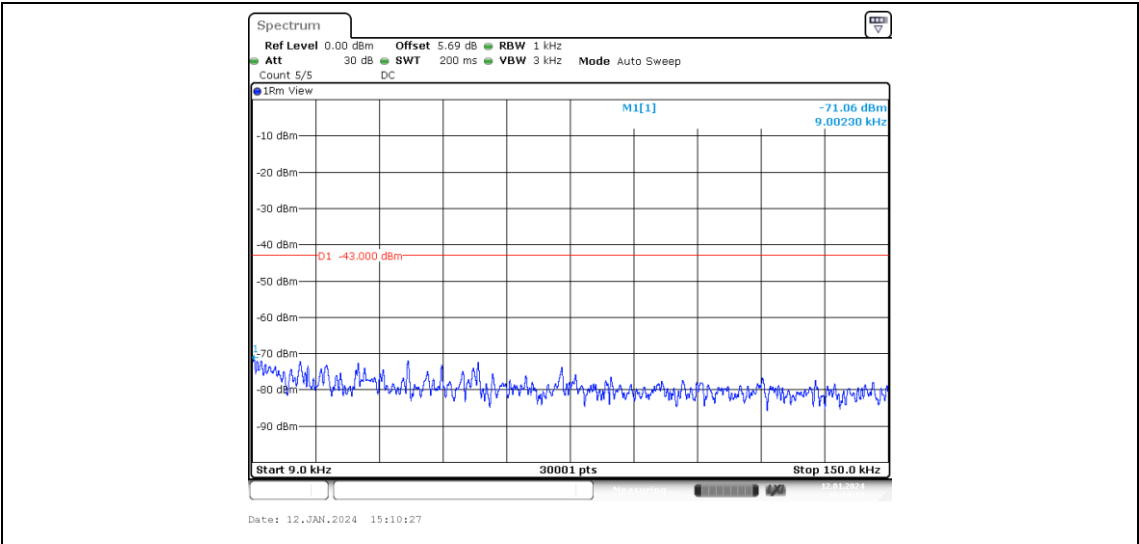
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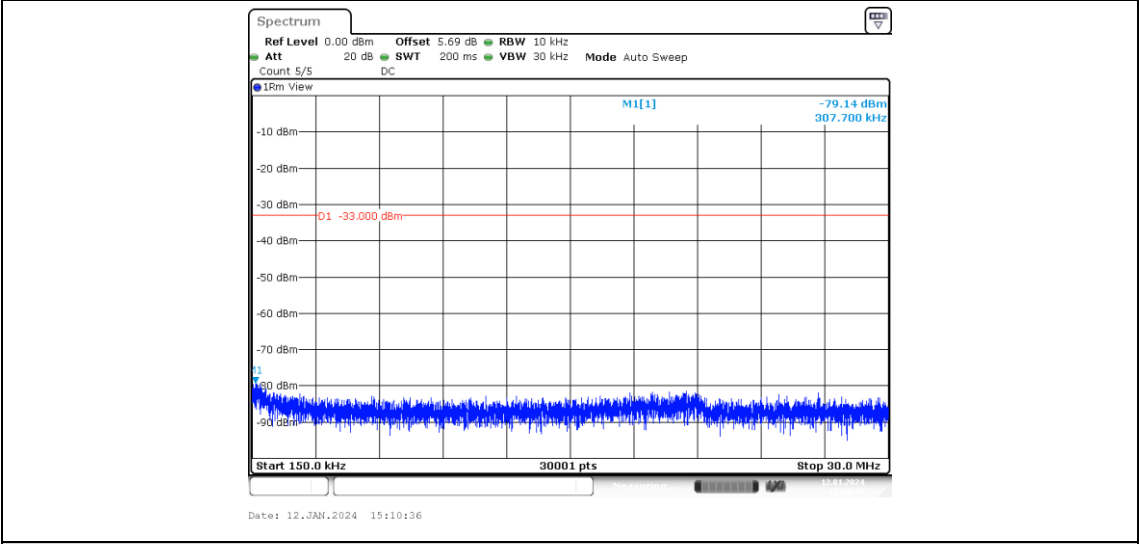
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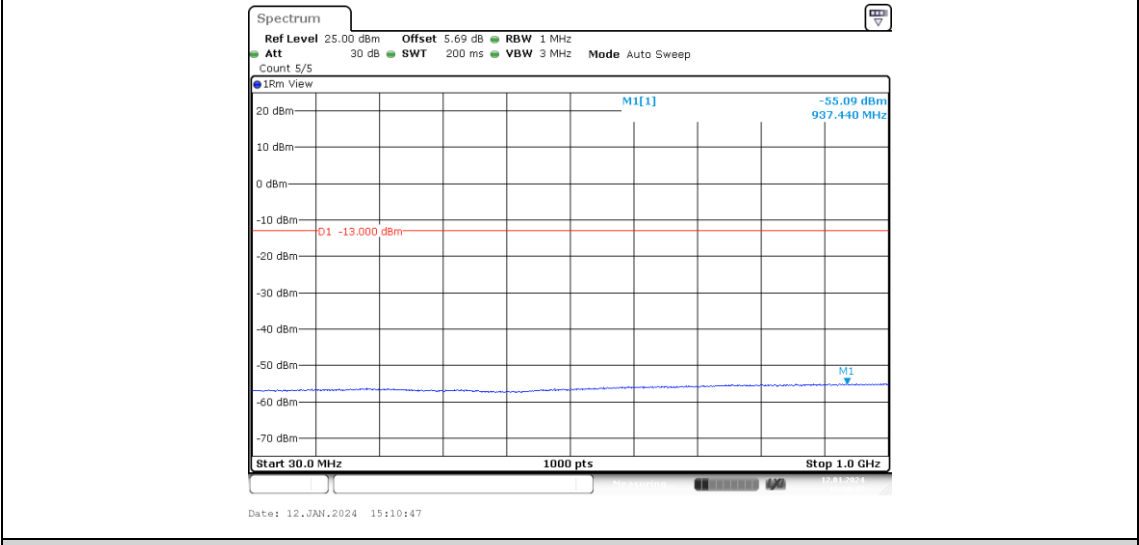
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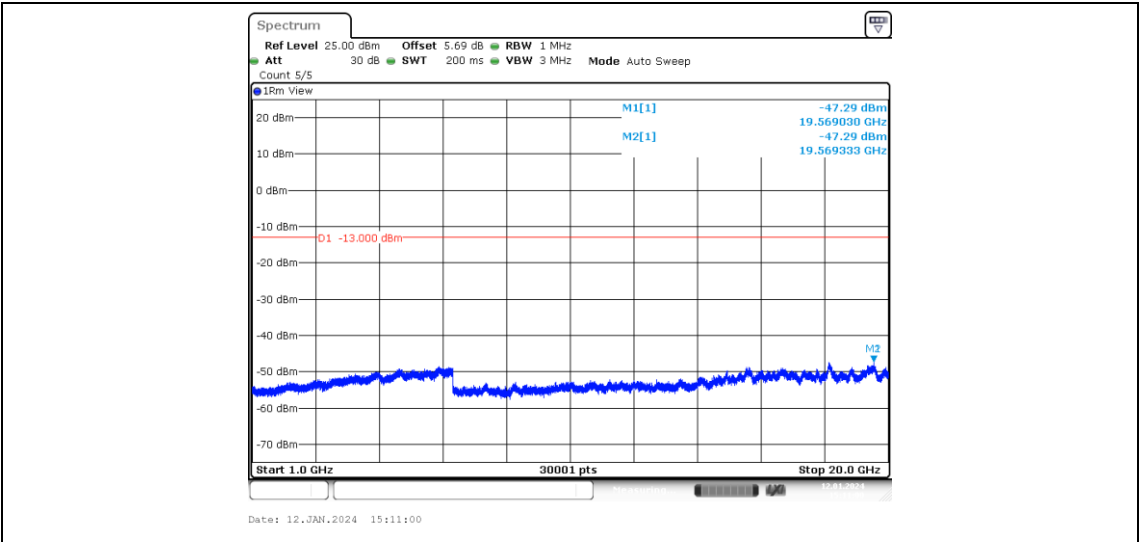
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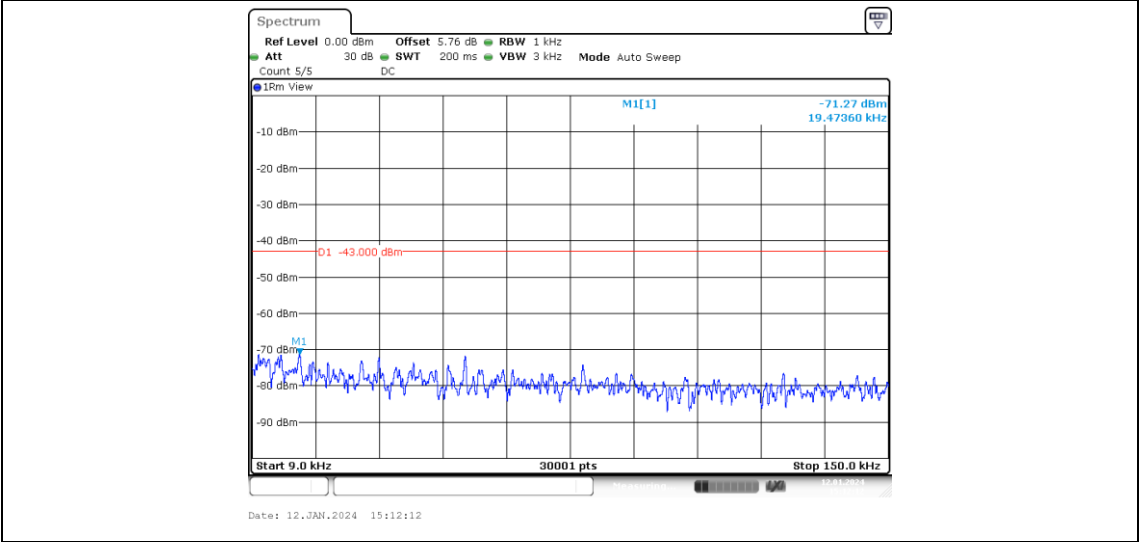
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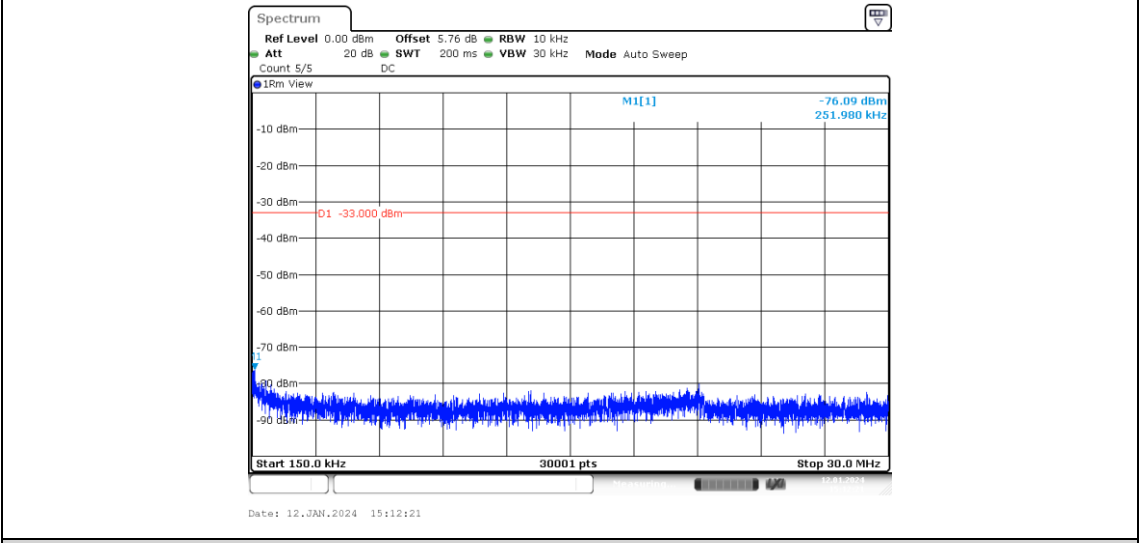
Band66-Stand-Alone-NaN-QPSK-131973-12@0-15kHz-30-1000--55.09--13-PASS



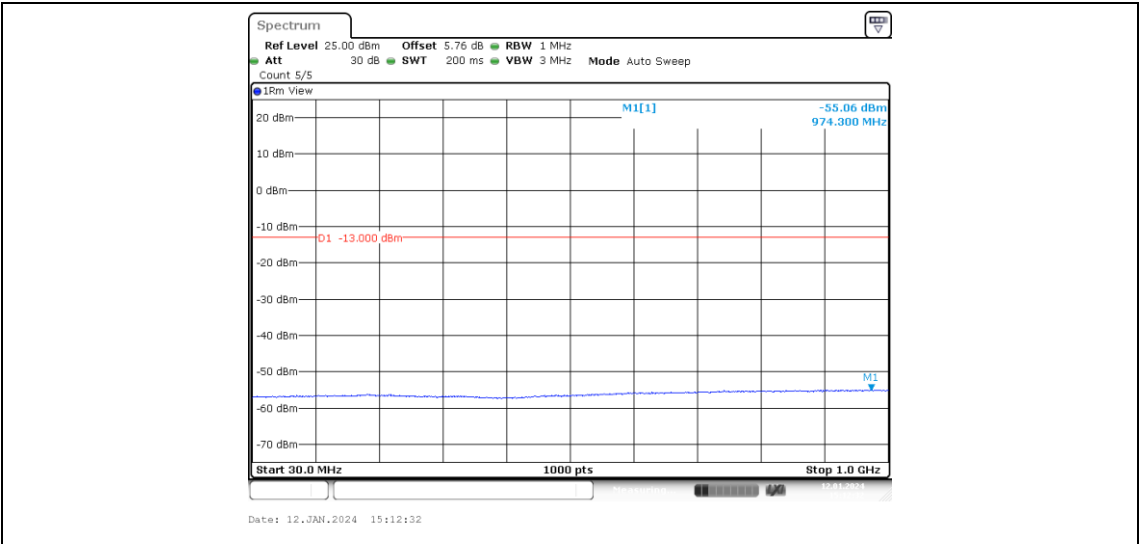
Band66-Stand-Alone-NaN-QPSK-131973-12@0-15kHz-1000-20000--47.29--13-PASS



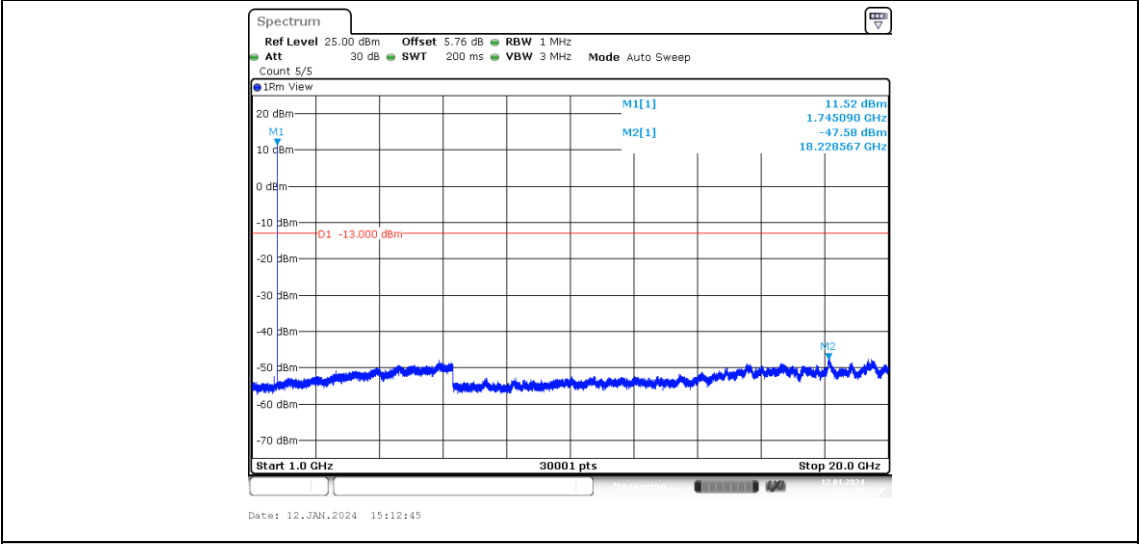
Band66-Stand-Alone-NaN-QPSK-132322-12@0-15kHz-0.009-0.15--71.27--43-PASS



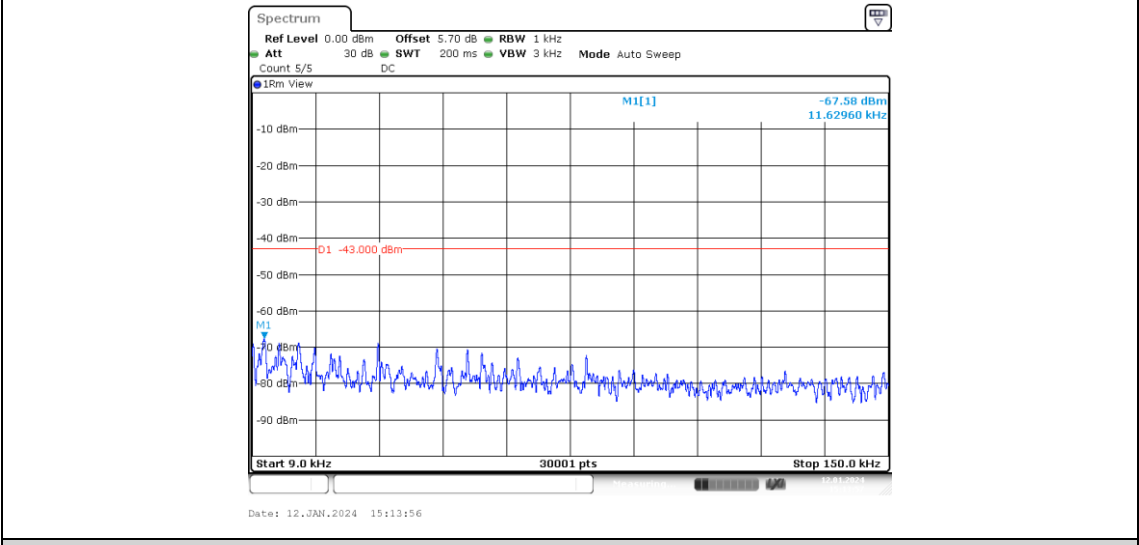
Band66-Stand-Alone-NaN-QPSK-132322-12@0-15kHz-0.15-30--76.09--33-PASS



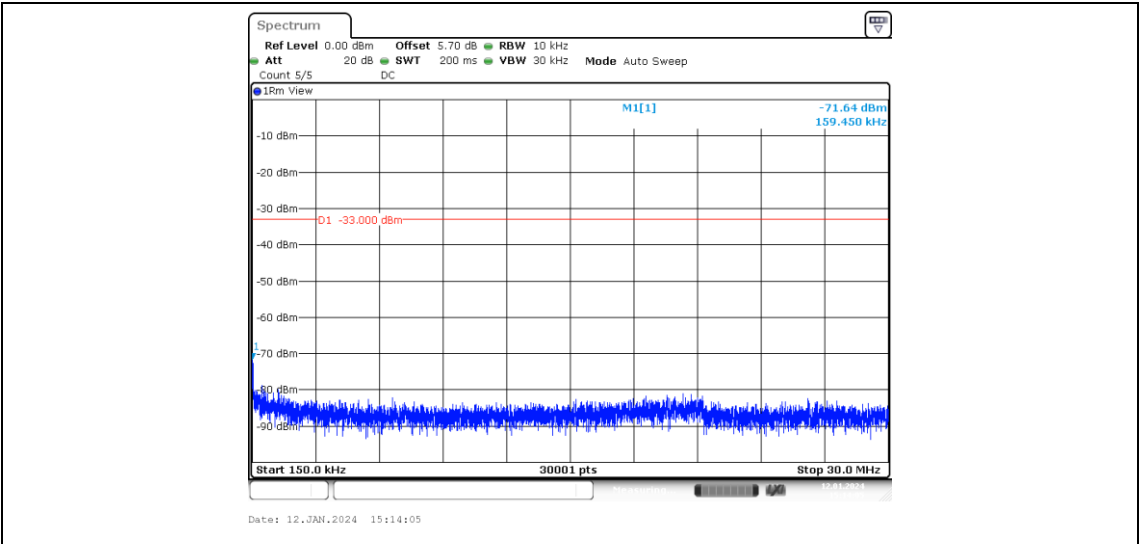
Band66-Stand-Alone-NaN-QPSK-132322-12@0-15kHz-30-1000--55.06--13-PASS



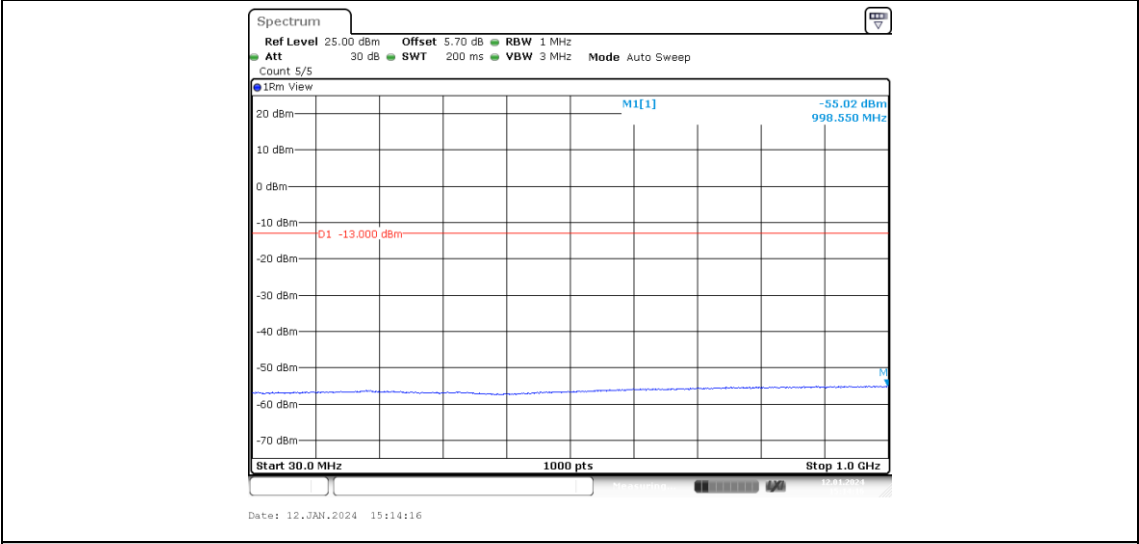
Band66-Stand-Alone-NaN-QPSK-132322-12@0-15kHz-1000-20000--47.58--13-PASS



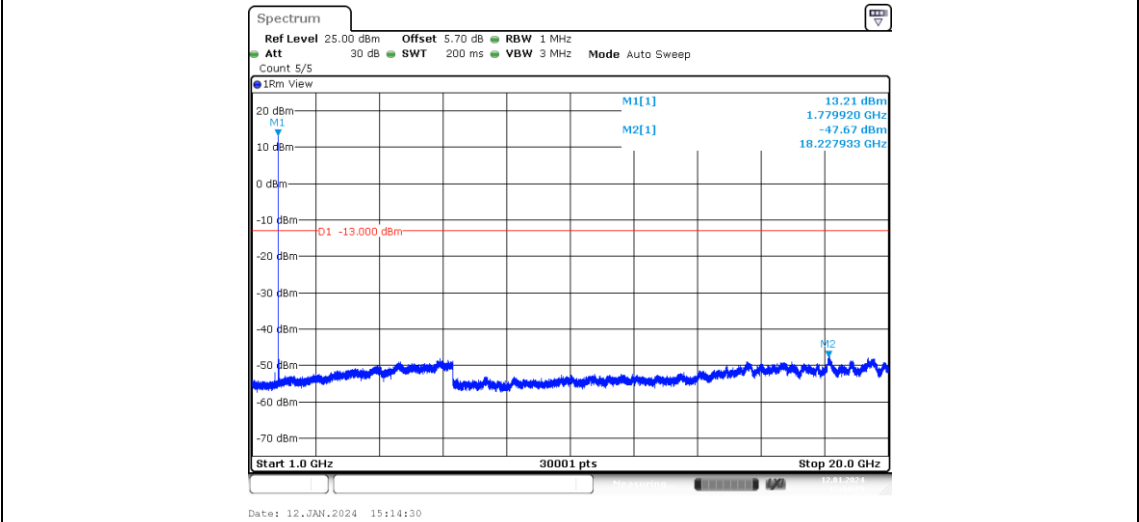
Band66-Stand-Alone-NaN-QPSK-132671-12@0-15kHz-0.009-0.15--67.58--43-PASS



Band66-Stand-Alone-NaN-QPSK-132671-12@0-15kHz-0.15-30--71.64--33-PASS



Band66-Stand-Alone-NaN-QPSK-132671-12@0-15kHz-30-1000--55.02--13-PASS



Band66-Stand-Alone-NaN-QPSK-132671-12@0-15kHz-1000-20000--47.67--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	13.0 2	0.00 7461	±2. 5	PA SS
Ban d66	Stand- Alone	3.75 kHz	NaN	QPS K	132 322	1 @ 0	VL	NT	17.3 8	0.00 9960	±2. 5	PA SS
Ban d66	Stand- Alone	3.75 kHz	NaN	QPS K	132 322	1 @ 0	VN	NT	16.1 8	0.00 9272	±2. 5	PA SS
Ban d66	Stand- Alone	3.75 kHz	NaN	QPS K	132 322	1 @ 47	VH	NT	20.1 8	0.01 1564	±2. 5	PA SS
Ban d66	Stand- Alone	3.75 kHz	NaN	QPS K	132 322	1 @ 47	VL	NT	20.2 6	0.01 1610	±2. 5	PA SS
Ban d66	Stand- Alone	3.75 kHz	NaN	QPS K	132 322	1 @ 47	VN	NT	20.7 6	0.01 1897	±2. 5	PA SS
Ban d66	Stand- Alone	15k Hz	NaN	QPS K	132 322	1 @ 0	VH	NT	20.7 9	0.01 1914	±2. 5	PA SS
Ban d66	Stand- Alone	15k Hz	NaN	QPS K	132 322	1 @ 0	VL	NT	27.4 4	0.01 5725	±2. 5	PA SS
Ban d66	Stand- Alone	15k Hz	NaN	QPS K	132 322	1 @ 0	VN	NT	31.2 4	0.01 7903	±2. 5	PA SS
Ban d66	Stand- Alone	15k Hz	NaN	QPS K	132 322	1 @1 1	VH	NT	30.4 8	0.01 7467	±2. 5	PA SS
Ban d66	Stand- Alone	15k Hz	NaN	QPS K	132 322	1 @1 1	VL	NT	26.1 8	0.01 5003	±2. 5	PA SS
Ban	Stand-	15k	NaN	QPS	132	1	VN	NT	22.4	0.01	±2.	PA

d66	Alone	Hz		K	322	@1 1			9	2888	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)	Devi ation (ppm)	Li mit (pp m)	Ver dict
Ban d66	Stand- Alone	3.75 kHz	NaN	QP SK	132 322	1 @ 0	NV	50	24.5 0	0.01 4040	±2. 5	PA SS
Ban d66	Stand- Alone	3.75 kHz	NaN	QP SK	132 322	1 @ 0	NV	-20	20.4 3	0.01 1708	±2. 5	PA SS
Ban d66	Stand- Alone	3.75 kHz	NaN	QP SK	132 322	1 @ 0	NV	-10	20.4 8	0.01 1736	±2. 5	PA SS
Ban d66	Stand- Alone	3.75 kHz	NaN	QP SK	132 322	1 @ 0	NV	0	21.1 3	0.01 2109	±2. 5	PA SS
Ban d66	Stand- Alone	3.75 kHz	NaN	QP SK	132 322	1 @ 0	NV	10	22.0 6	0.01 2642	±2. 5	PA SS
Ban d66	Stand- Alone	3.75 kHz	NaN	QP SK	132 322	1 @ 0	NV	20	22.3 3	0.01 2797	±2. 5	PA SS
Ban d66	Stand- Alone	3.75 kHz	NaN	QP SK	132 322	1 @ 0	NV	30	23.0 9	0.01 3232	±2. 5	PA SS
Ban d66	Stand- Alone	3.75 kHz	NaN	QP SK	132 322	1 @ 0	NV	40	22.4 6	0.01 2871	±2. 5	PA SS
Ban d66	Stand- Alone	3.75 kHz	NaN	QP SK	132 322	1 @ 0	NV	-30	21.1 0	0.01 2092	±2. 5	PA SS
Ban d66	Stand- Alone	3.75 kHz	NaN	QP SK	132 322	1 @ 47	NV	30	27.8 2	0.01 5943	±2. 5	PA SS
Ban d66	Stand- Alone	3.75 kHz	NaN	QP SK	132 322	1 @ 47	NV	20	26.3 4	0.01 5095	±2. 5	PA SS
Ban d66	Stand- Alone	3.75 kHz	NaN	QP SK	132 322	1 @	NV	10	19.7 3	0.01 1307	±2. 5	PA SS

						47						
Ban d66	Stand- Alone	3.75 kHz	NaN	QP SK	132 322	1 @ 47	NV	0	24.8 8	0.01 4258	±2. 5	PA SS
Ban d66	Stand- Alone	3.75 kHz	NaN	QP SK	132 322	1 @ 47	NV	-10	24.0 5	0.01 3782	±2. 5	PA SS
Ban d66	Stand- Alone	3.75 kHz	NaN	QP SK	132 322	1 @ 47	NV	40	24.5 9	0.01 4092	±2. 5	PA SS
Ban d66	Stand- Alone	3.75 kHz	NaN	QP SK	132 322	1 @ 47	NV	-30	25.3 9	0.01 4550	±2. 5	PA SS
Ban d66	Stand- Alone	3.75 kHz	NaN	QP SK	132 322	1 @ 47	NV	50	25.3 1	0.01 4504	±2. 5	PA SS
Ban d66	Stand- Alone	3.75 kHz	NaN	QP SK	132 322	1 @ 47	NV	-20	25.6 8	0.01 4716	±2. 5	PA SS
Ban d66	Stand- Alone	15kHz z	NaN	QP SK	132 322	1 @ 0	NV	50	31.5 0	0.01 8052	±2. 5	PA SS
Ban d66	Stand- Alone	15kHz z	NaN	QP SK	132 322	1 @ 0	NV	-20	18.8 0	0.01 0774	±2. 5	PA SS
Ban d66	Stand- Alone	15kHz z	NaN	QP SK	132 322	1 @ 0	NV	-10	30.1 0	0.01 7249	±2. 5	PA SS
Ban d66	Stand- Alone	15kHz z	NaN	QP SK	132 322	1 @ 0	NV	0	33.8 5	0.01 9398	±2. 5	PA SS
Ban d66	Stand- Alone	15kHz z	NaN	QP SK	132 322	1 @ 0	NV	10	27.0 9	0.01 5524	±2. 5	PA SS
Ban d66	Stand- Alone	15kHz z	NaN	QP SK	132 322	1 @ 0	NV	20	28.1 0	0.01 6103	±2. 5	PA SS
Ban d66	Stand- Alone	15kHz z	NaN	QP SK	132 322	1 @ 0	NV	30	22.1 7	0.01 2705	±2. 5	PA SS
Ban d66	Stand- Alone	15kHz z	NaN	QP SK	132 322	1 @ 0	NV	40	26.0 4	0.01 4923	±2. 5	PA SS

Ban d66	Stand- Alone	15kHz	NaN	QP SK	132 322	1 @ 0	NV	-30	21.7 7	0.01 2476	±2. 5	PA SS
Ban d66	Stand- Alone	15kHz	NaN	QP SK	132 322	1 @1 1	NV	40	30.8 8	0.01 7696	±2. 5	PA SS
Ban d66	Stand- Alone	15kHz	NaN	QP SK	132 322	1 @1 1	NV	30	26.0 8	0.01 4946	±2. 5	PA SS
Ban d66	Stand- Alone	15kHz	NaN	QP SK	132 322	1 @1 1	NV	20	29.8 5	0.01 7106	±2. 5	PA SS
Ban d66	Stand- Alone	15kHz	NaN	QP SK	132 322	1 @1 1	NV	10	28.3 5	0.01 6246	±2. 5	PA SS
Ban d66	Stand- Alone	15kHz	NaN	QP SK	132 322	1 @1 1	NV	0	32.1 1	0.01 8401	±2. 5	PA SS
Ban d66	Stand- Alone	15kHz	NaN	QP SK	132 322	1 @1 1	NV	-10	24.1 6	0.01 3845	±2. 5	PA SS
Ban d66	Stand- Alone	15kHz	NaN	QP SK	132 322	1 @1 1	NV	-30	32.0 3	0.01 8355	±2. 5	PA SS
Ban d66	Stand- Alone	15kHz	NaN	QP SK	132 322	1 @1 1	NV	50	22.3 7	0.01 2819	±2. 5	PA SS
Ban d66	Stand- Alone	15kHz	NaN	QP SK	132 322	1 @1 1	NV	-20	30.6 6	0.01 7570	±2. 5	PA SS