

Appendix RF Test Data for 2.4GWIFI

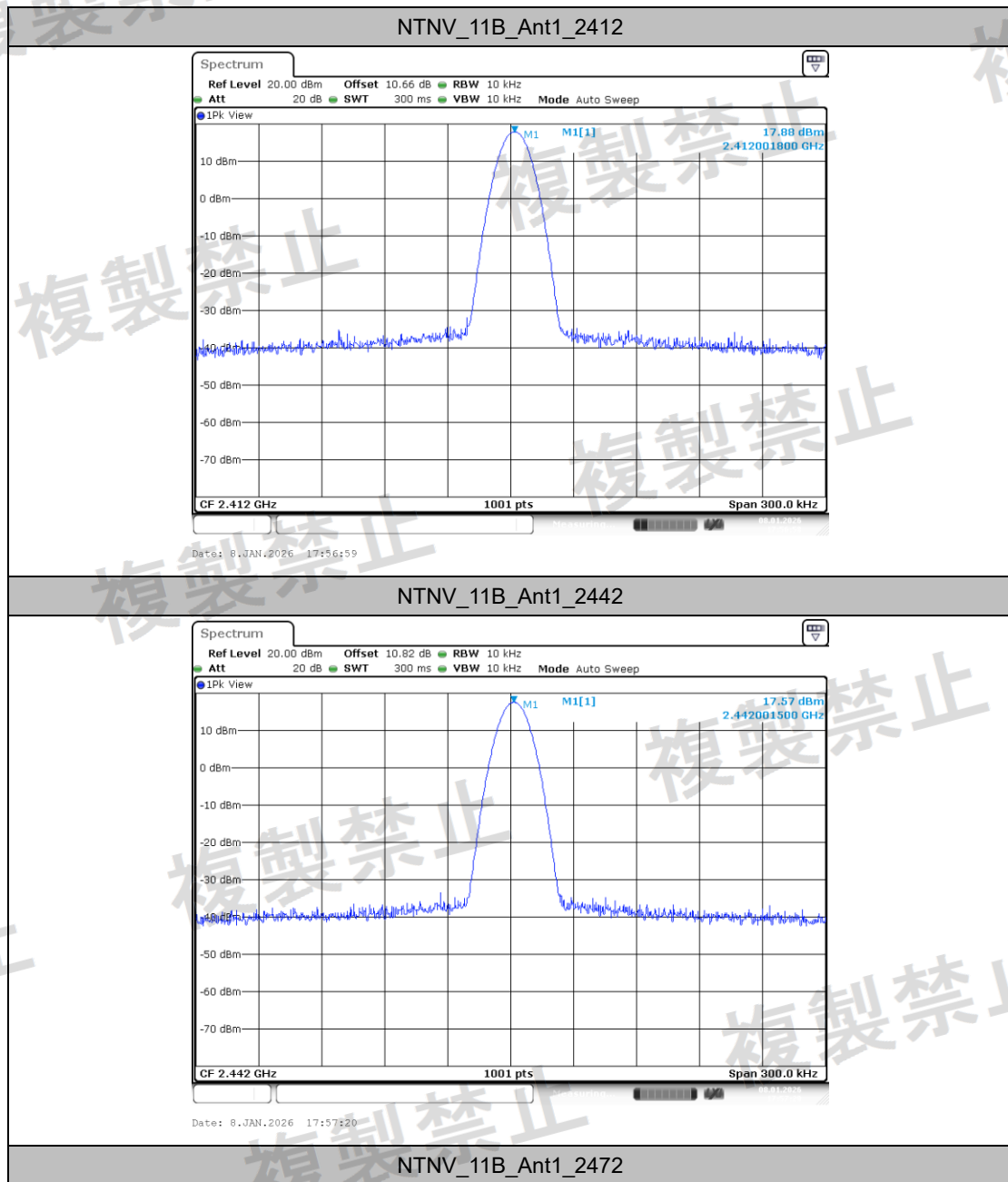
Company : Shenzhen Kaiyixing Electronics Co., Ltd.
EUT : WIFI wall clock
Model Number : KYX-0035
Report No. : CTA26010400101
Reviewed By : Eric Wang

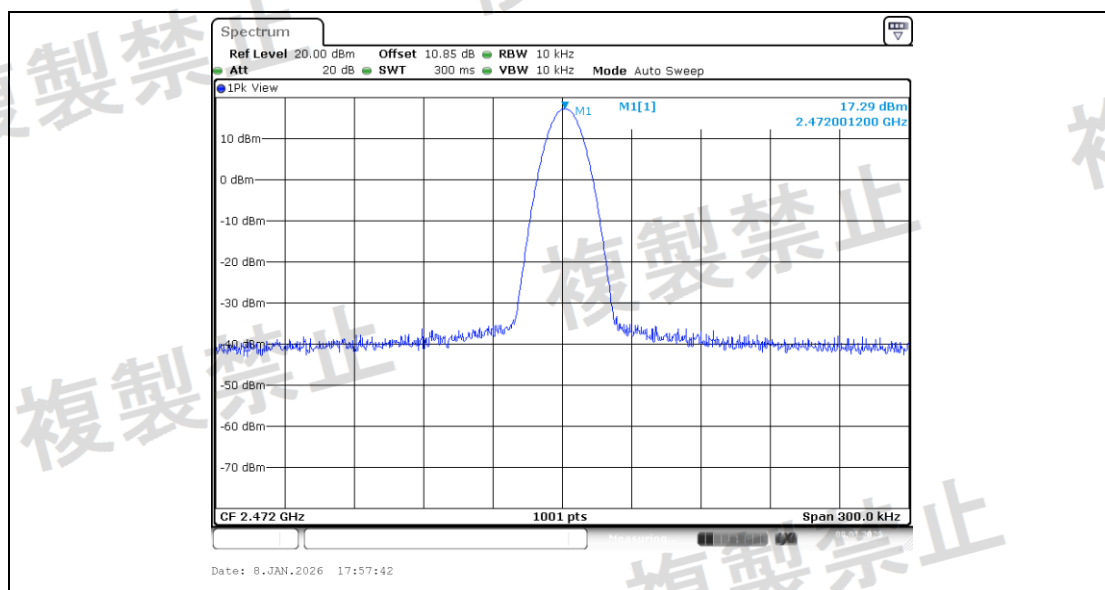
Appendix A: Frequency Error

Test Result

TestCondition	TestMode	Antenna	Freq(MHz)	CenterFrequency [MHz]	Result[ppm]	Limit[ppm]	Verdict
NTNV	11B	Ant1	2412	2412.0018	0.74627	±50	PASS
			2442	2442.0015	0.61425	±50	PASS
			2472	2472.0012	0.48544	±50	PASS

Test Graphs



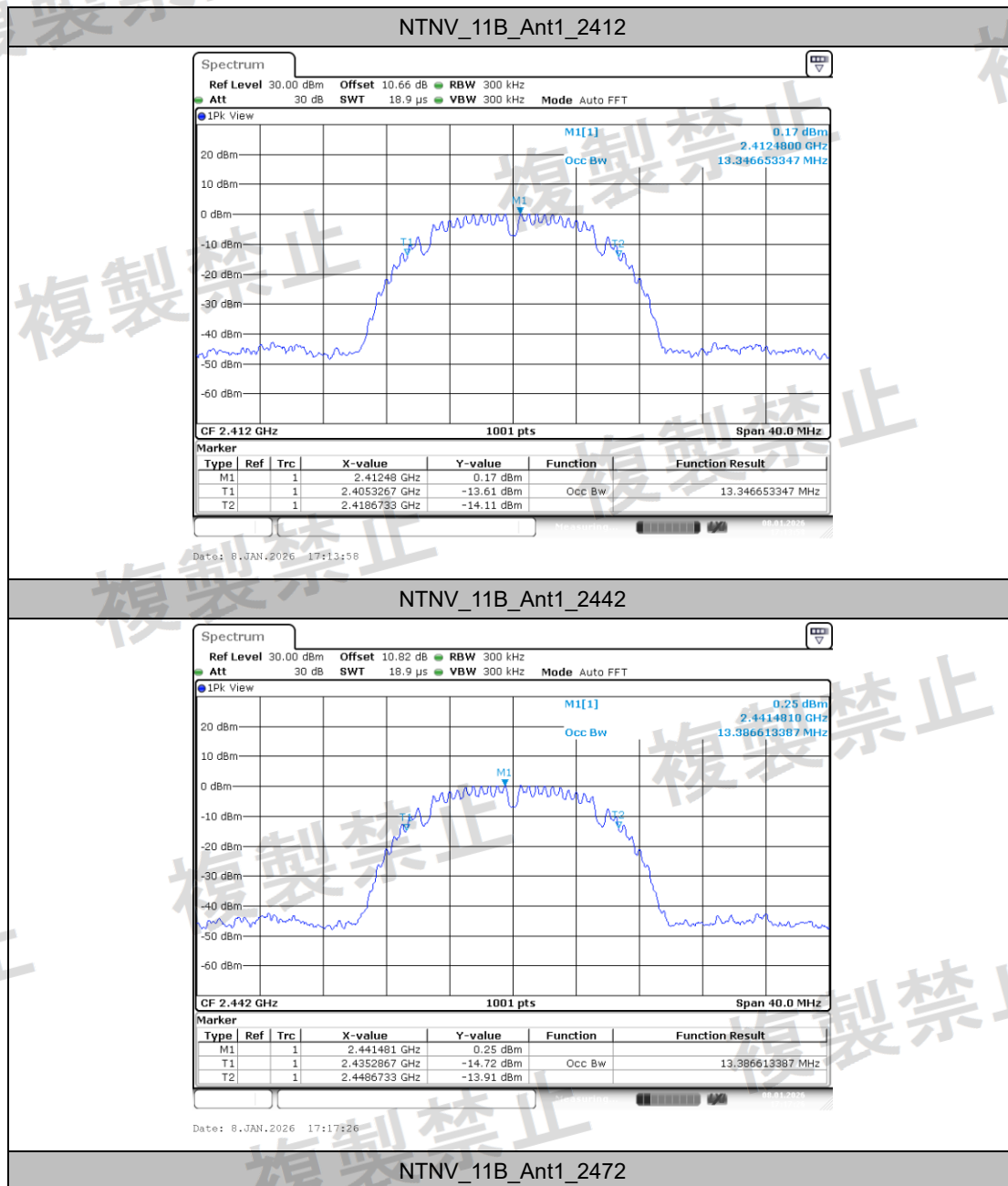


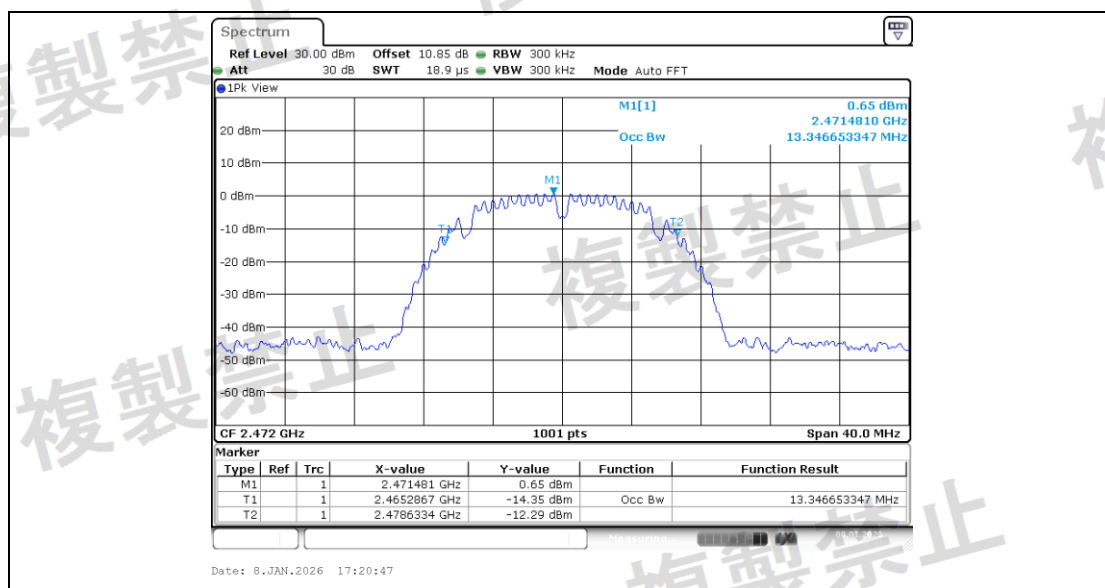
Appendix B: Occupied Bandwidth

Test Result

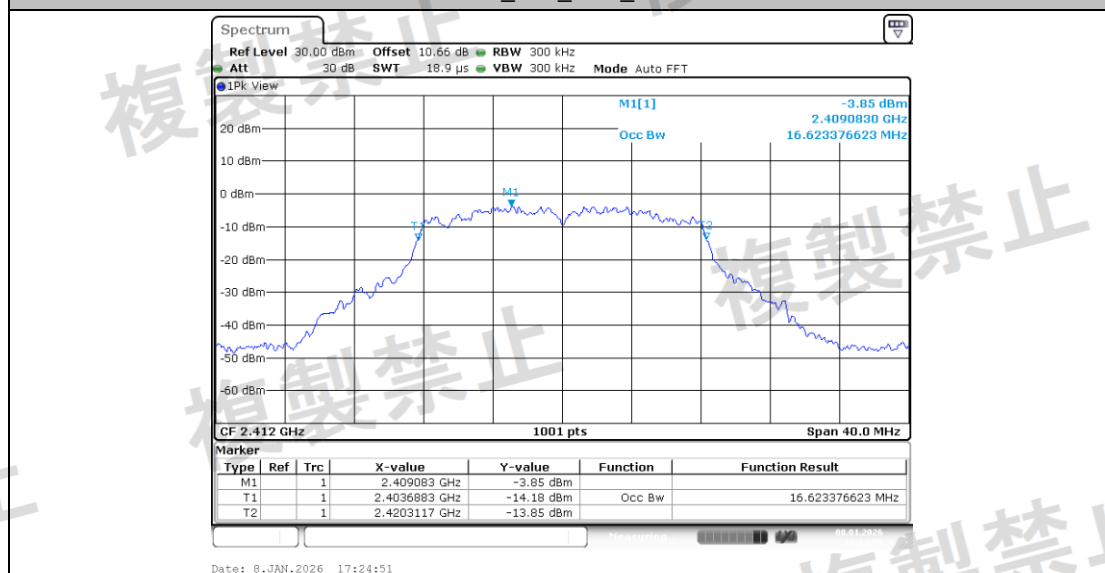
TestCondition	TestMode	Antenna	Freq(MHz)	Result [MHz]	Limit [MHz]	Verdict
NTNV	11B	Ant1	2412	13.347	≤26	PASS
			2442	13.387	≤26	PASS
			2472	13.347	≤26	PASS
	11G	Ant1	2412	16.623	≤26	PASS
			2442	16.663	≤26	PASS
			2472	16.464	≤26	PASS
	11N20SI SO	Ant1	2412	17.782	≤26	PASS
			2442	17.862	≤26	PASS
			2472	17.662	≤26	PASS

Test Graphs

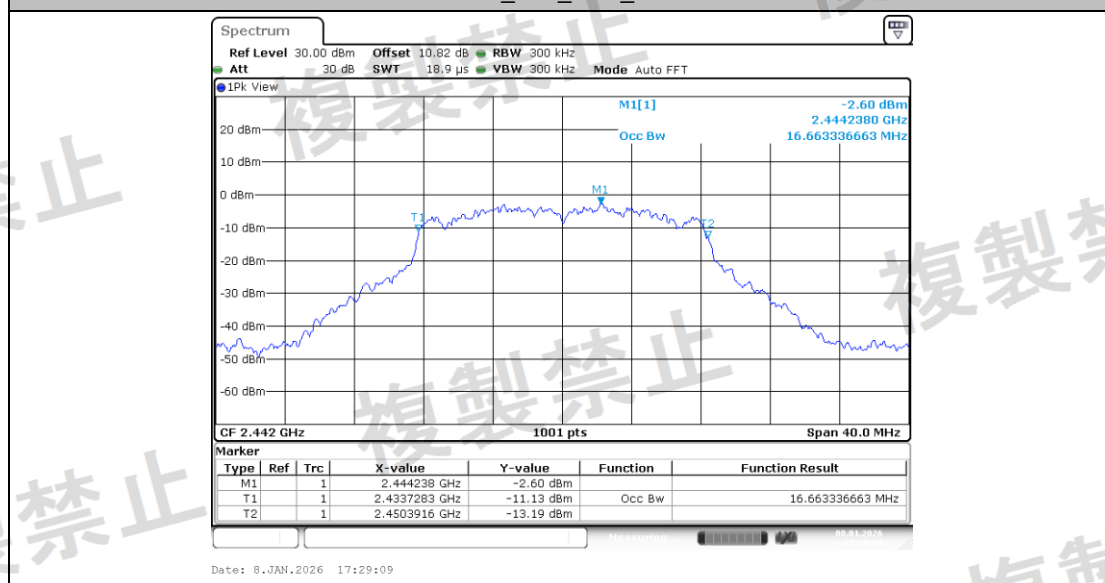


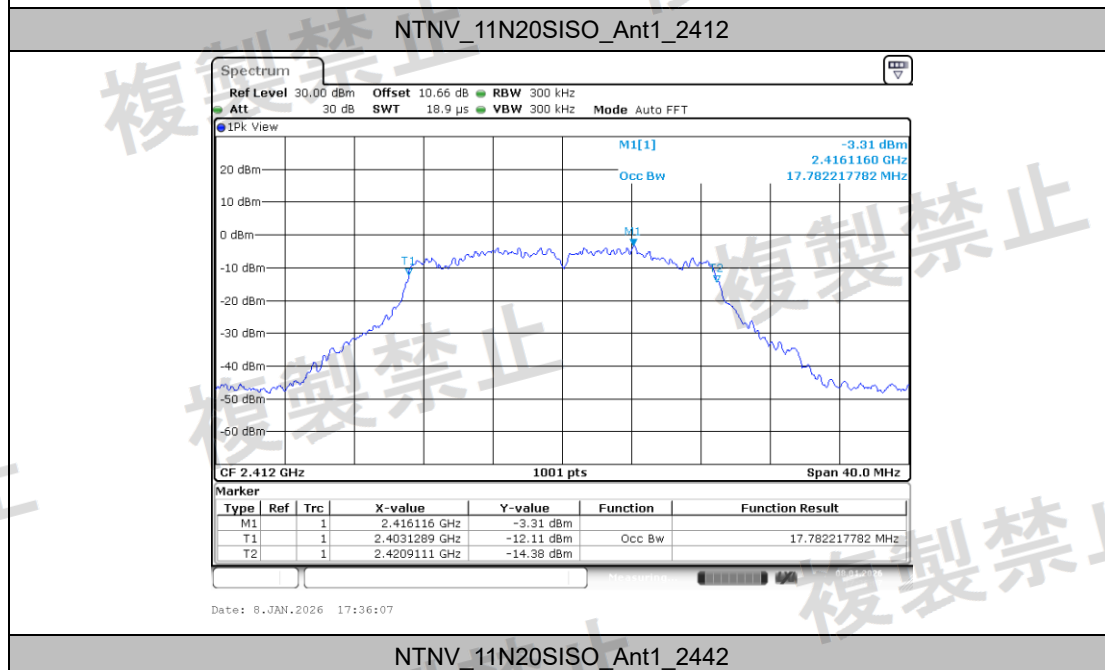
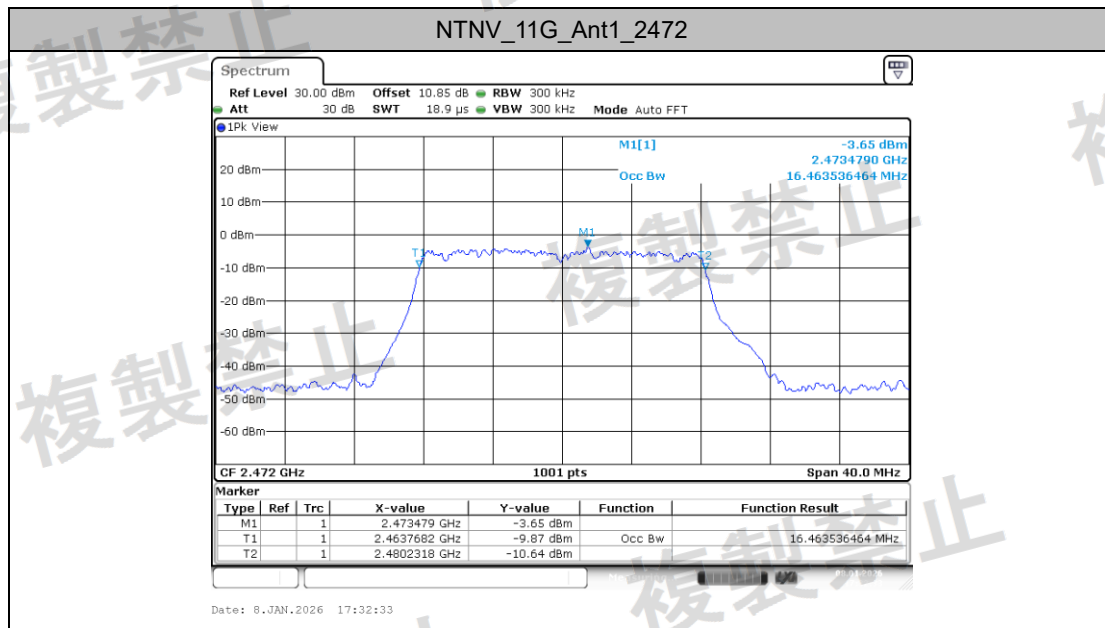


NTNV_11G_Ant1_2412

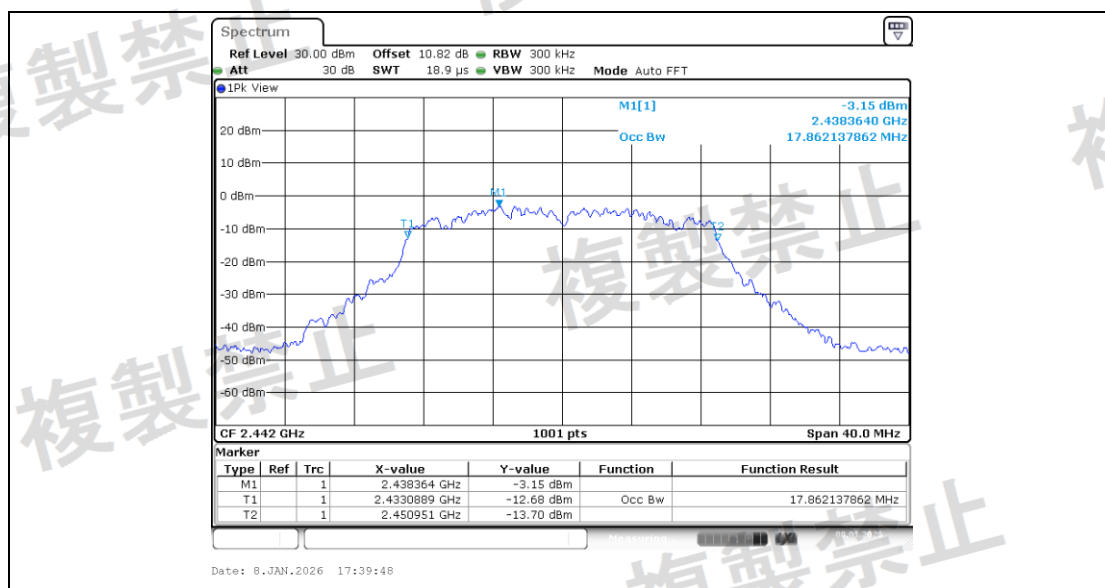


NTNV_11G_Ant1_2442

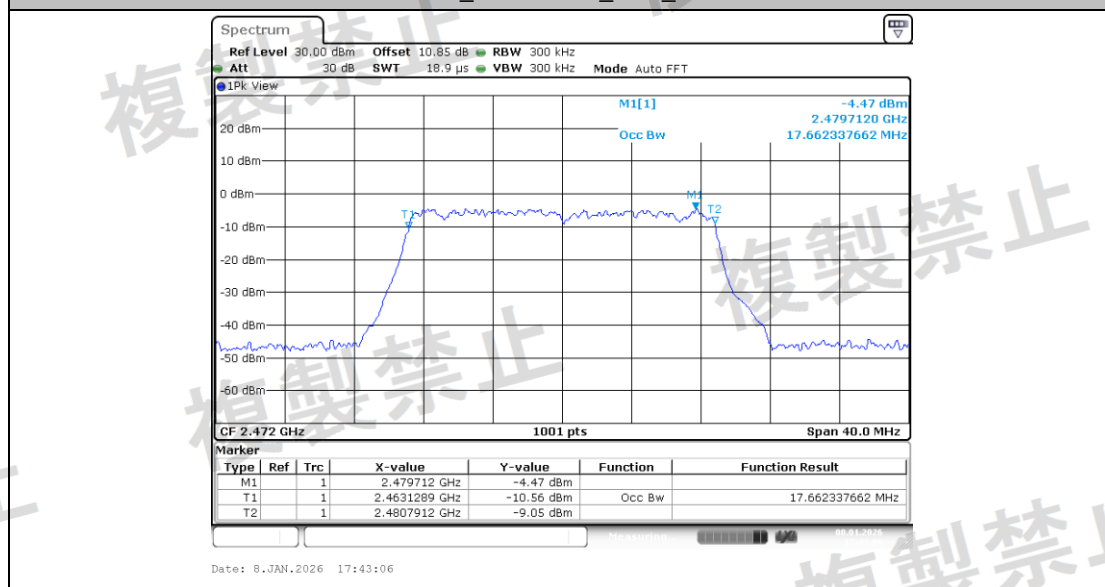




NTNV_11N20SISO_Ant1_2442



NTNV_11N20SISO_Ant1_2472

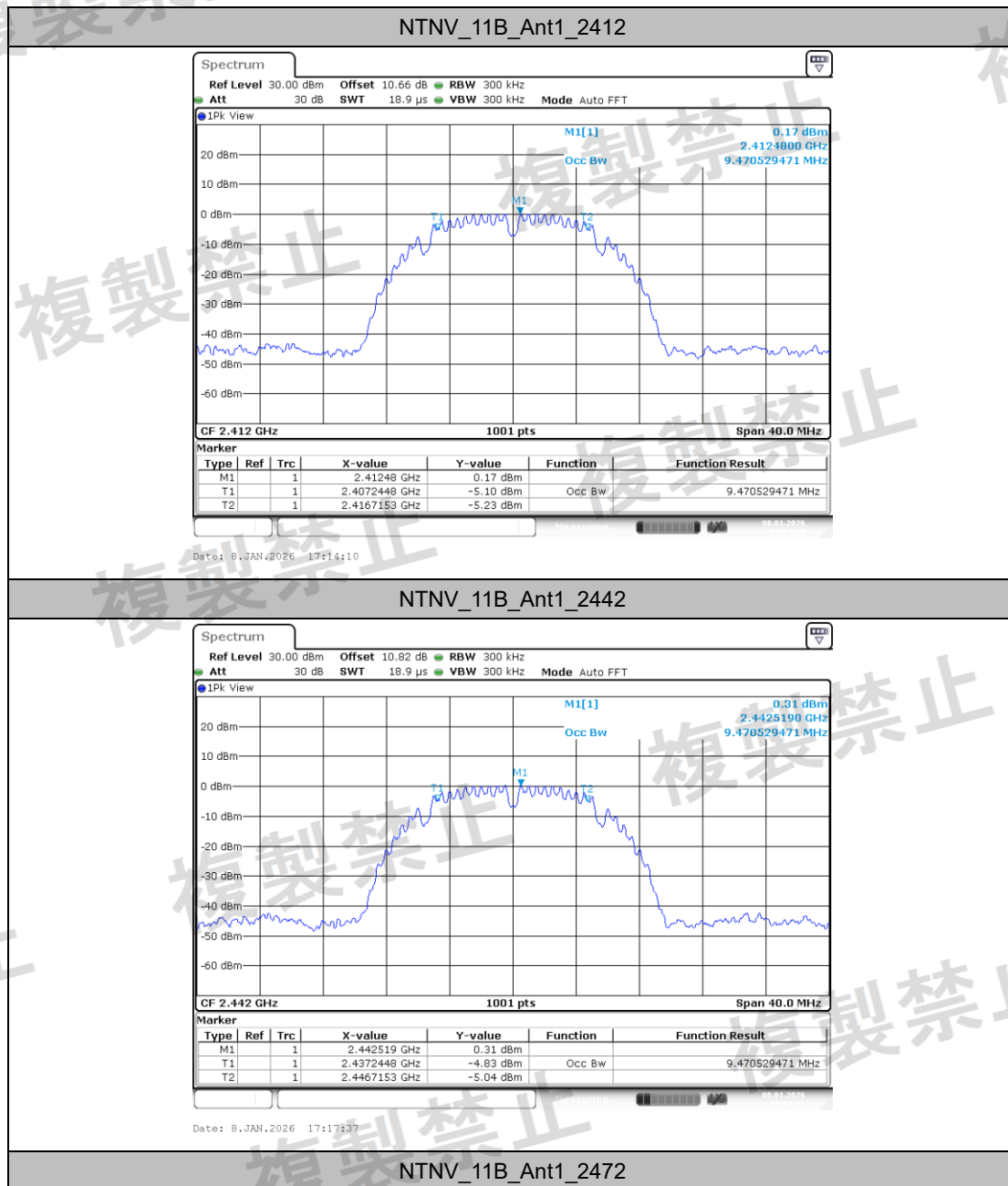


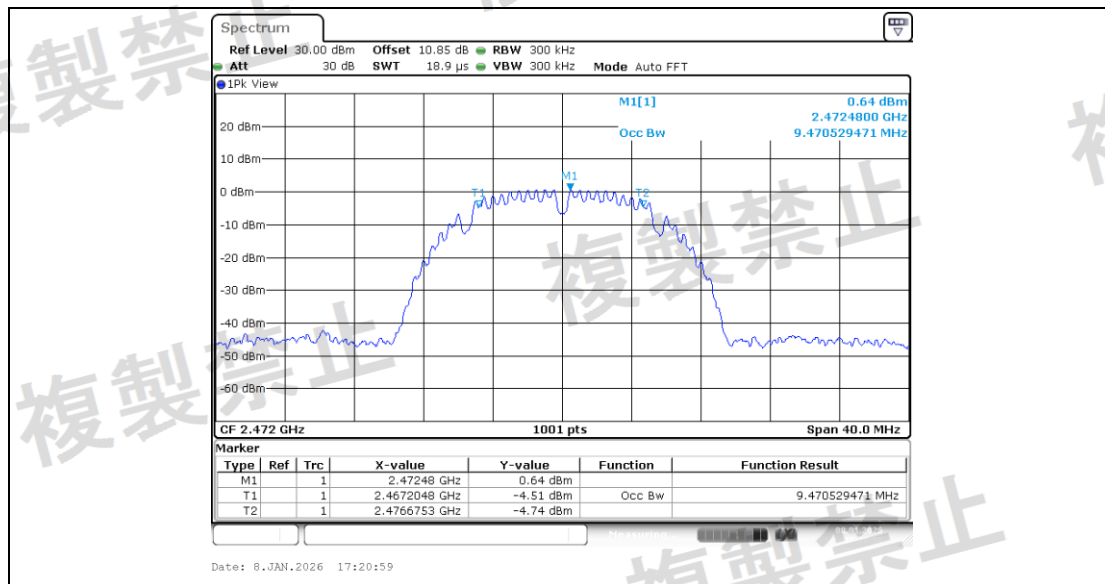
Appendix C: Spread Bandwidth

Test Result

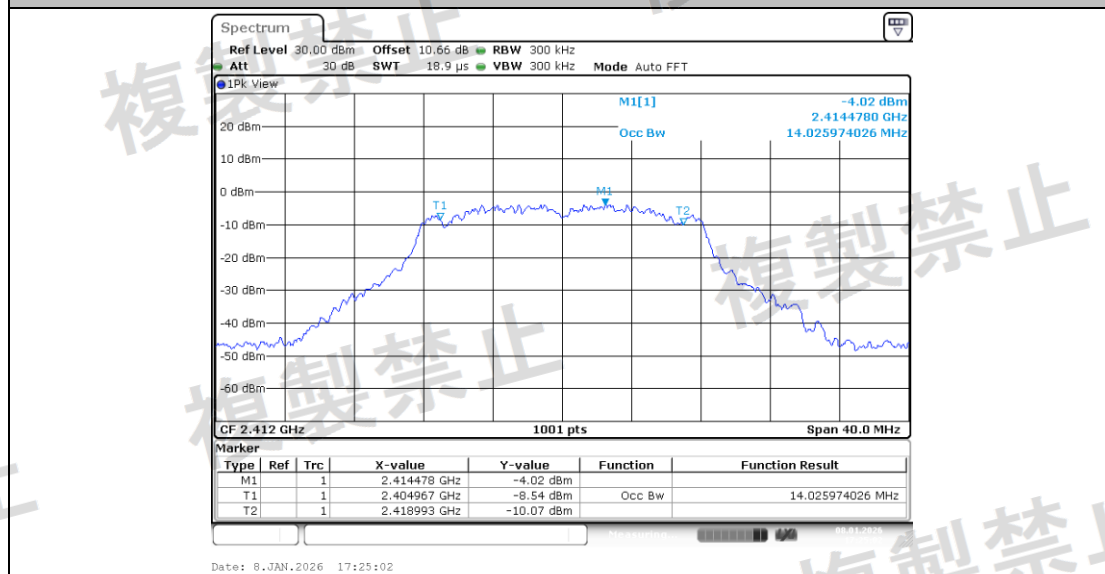
TestCondition	TestMode	Antenna	Freq(MHz)	Result [MHz]	Limit [MHz]	Spread Factor	Limit	Verdict
NTNV	11B	Ant1	2412	9.471	≥0.5	6.888	>5	PASS
			2442	9.471	≥0.5	6.888	>5	PASS
			2472	9.471	≥0.5	6.888	>5	PASS
	11G	Ant1	2412	14.026	≥0.5	---	---	PASS
			2442	13.946	≥0.5	---	---	PASS
			2472	14.745	≥0.5	---	---	PASS
	11N20SI SO	Ant1	2412	15.105	≥0.5	---	---	PASS
			2442	14.945	≥0.5	---	---	PASS
			2472	15.784	≥0.5	---	---	PASS

Test Graphs

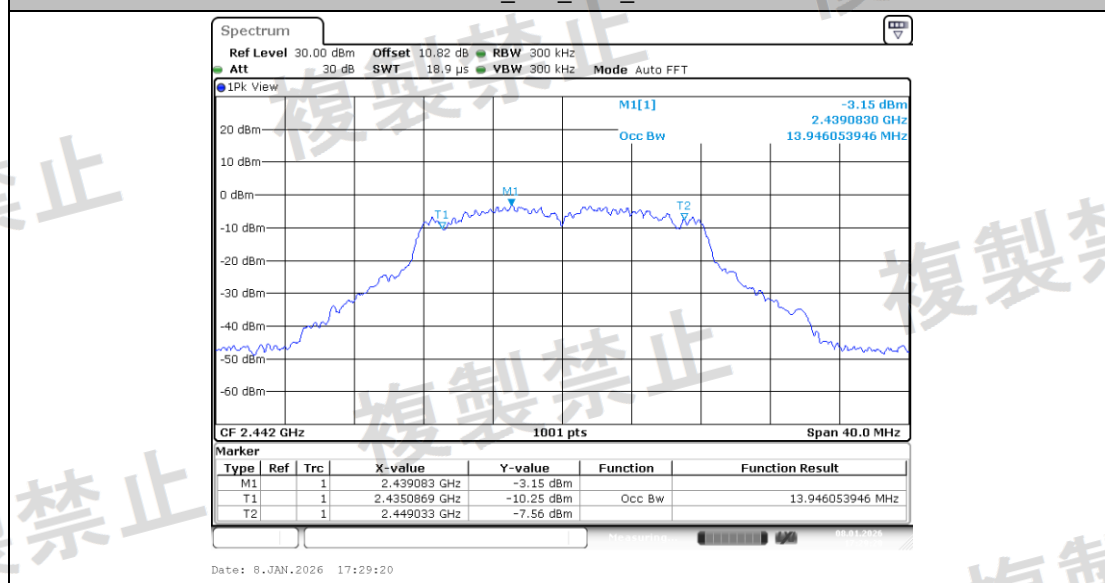


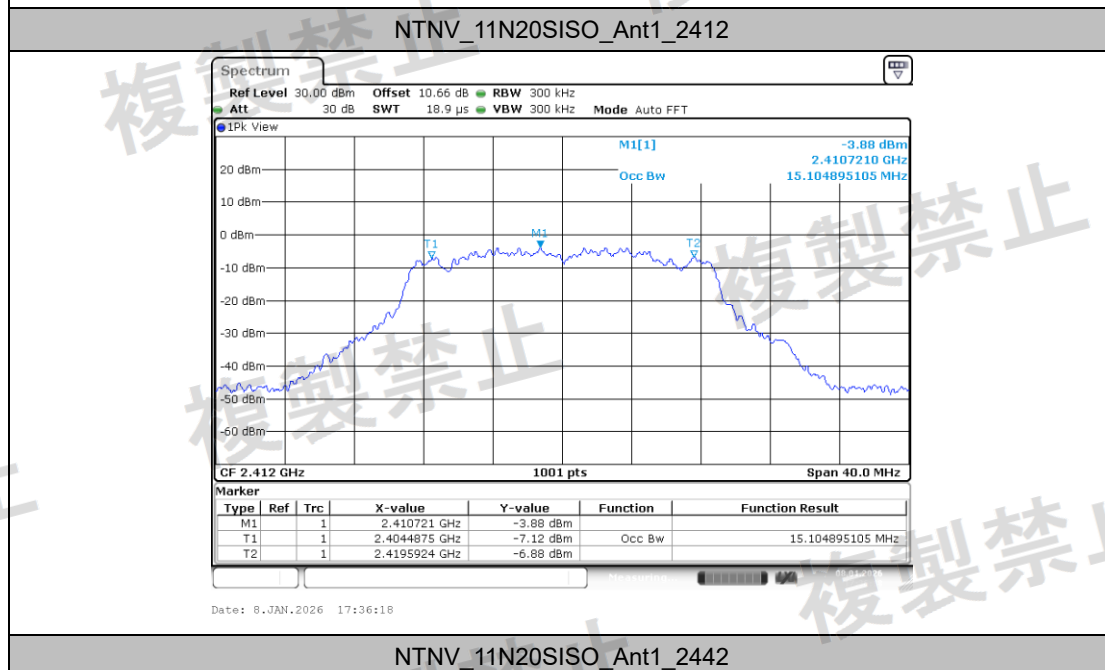
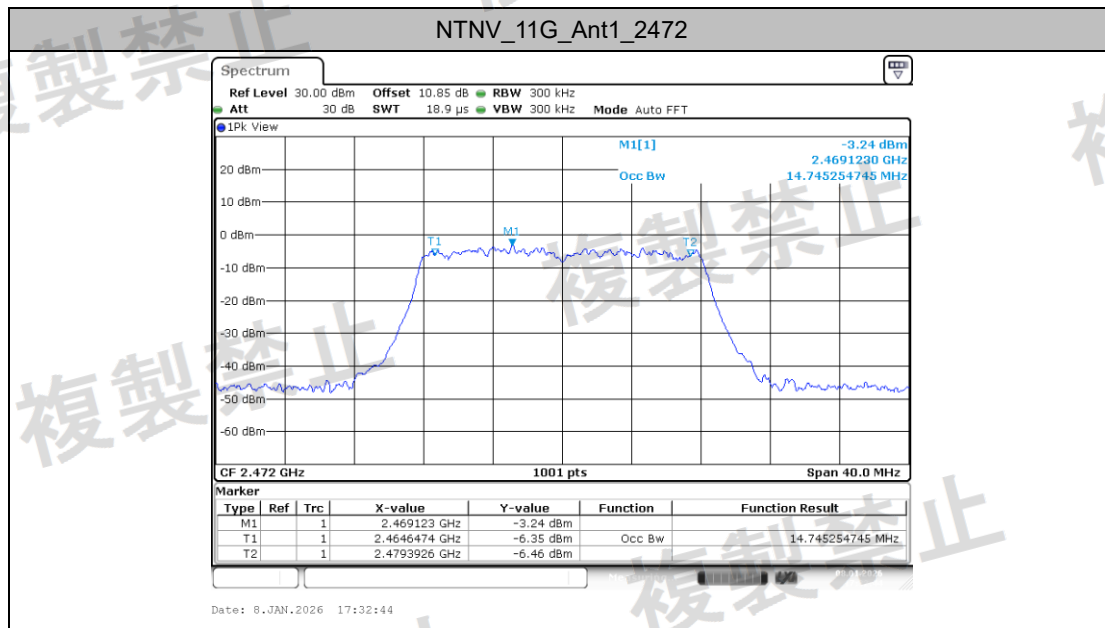


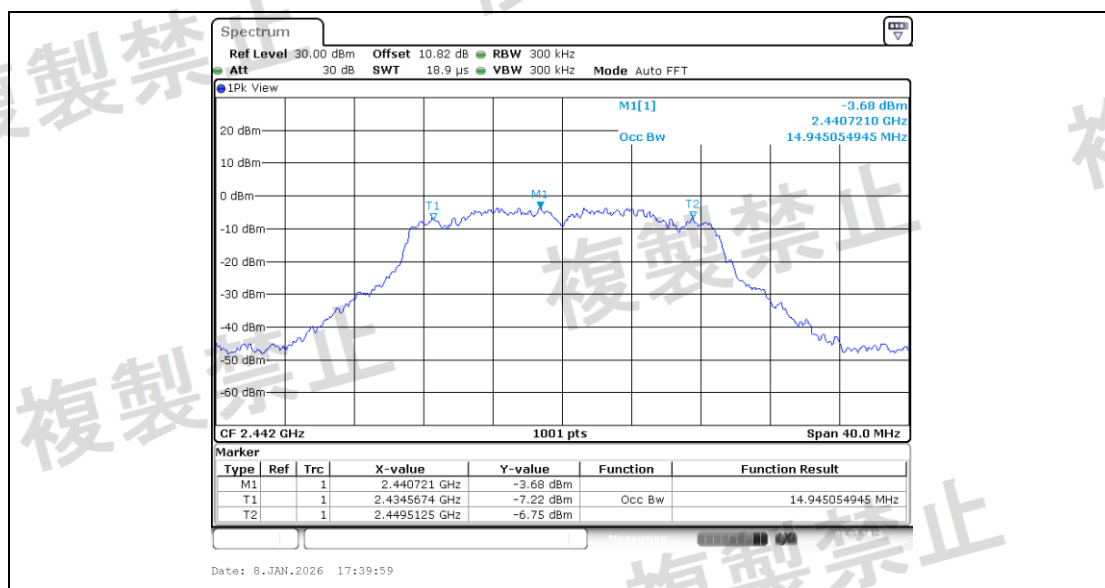
NTNV_11G_Ant1_2412



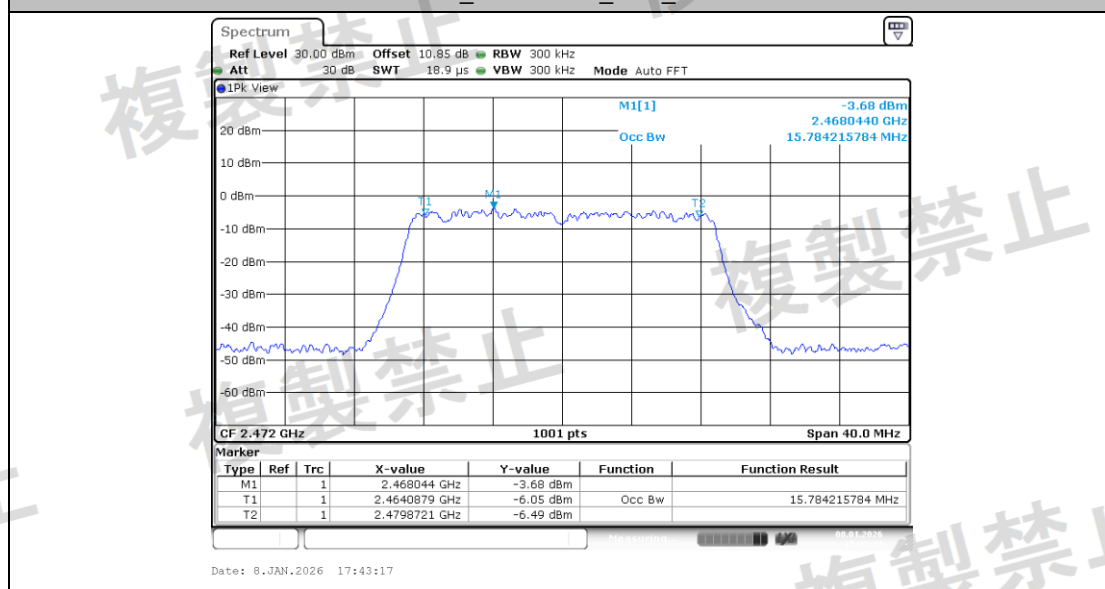
NTNV_11G_Ant1_2442







NTV_11N20SISO_Ant1_2472



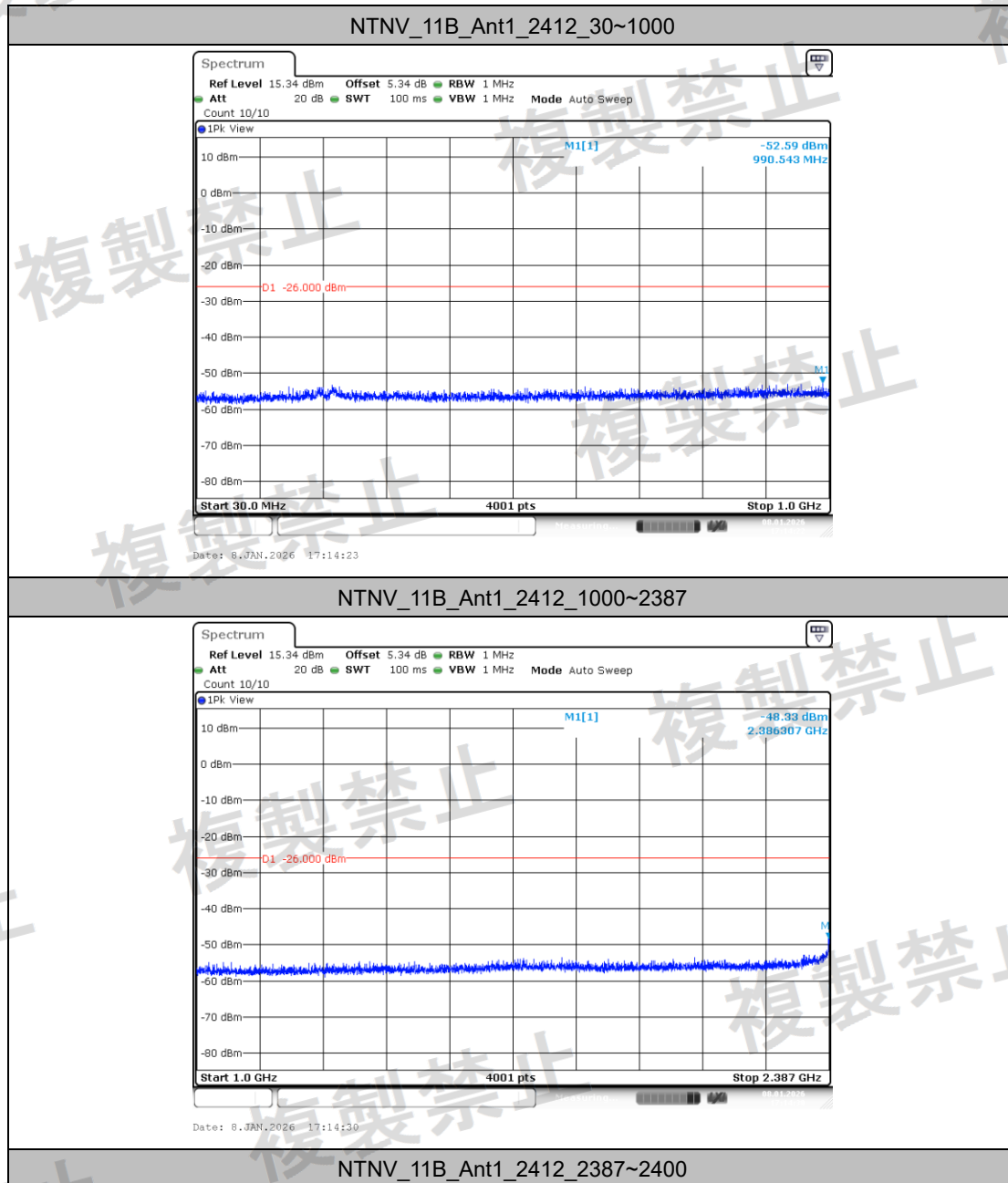
Appendix D: Spurious Emission of TX

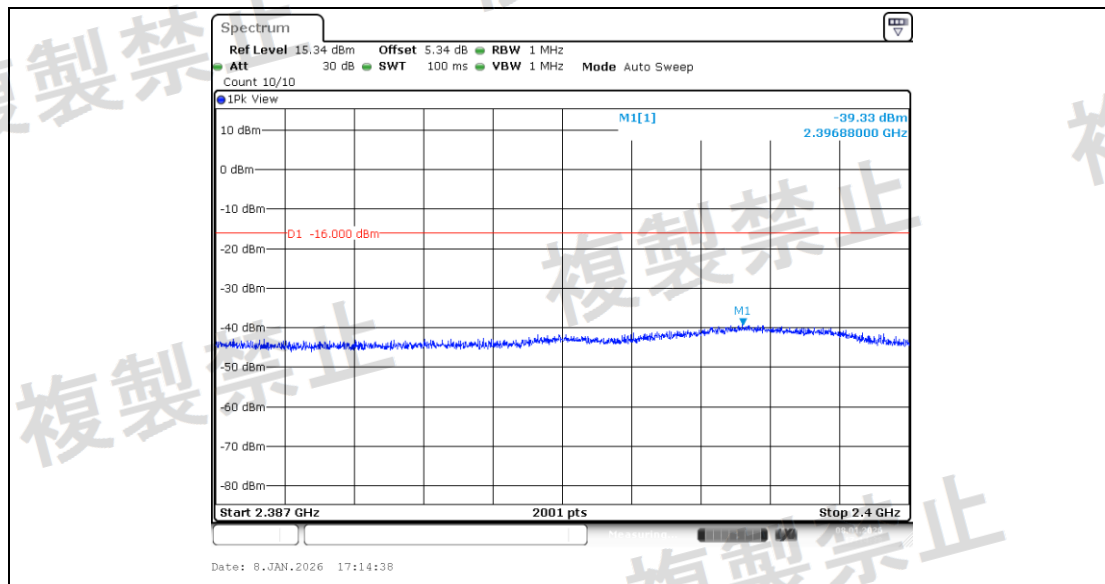
Test Result

TestCondition	TestMode	Antenna	Channel (MHz)	Freq.Range [MHz]	Freq (MHz)	Result [dBm]	Limit [dBm]	Result [μW]	Limit [μW]	Verdict
NTNV	11B	Ant1	2412	30~1000	990.54	-52.59	≤-26	0.00551	≤2.5	PASS
				1000~2387	2386.3 1	-48.33	≤-26	0.01469	≤2.5	PASS
				2387~2400	2396.8 8	-39.33	≤-16	0.11668	≤25	PASS
				2483.5~2496.5	2489.7 5	-43.14	≤-16	0.04853	≤25	PASS
				2496.5~13000	6941.5 8	-48.78	≤-26	0.01324	≤2.5	PASS
			2442	30~1000	238.07	-52.96	≤-26	0.00506	≤2.5	PASS
				1000~2387	2387.0 0	-52.70	≤-26	0.00537	≤2.5	PASS
				2387~2400	2392.9 0	-43.27	≤-16	0.04710	≤25	PASS
				2483.5~2496.5	2494.1 2	-43.01	≤-16	0.05000	≤25	PASS
				2496.5~13000	6287.7 4	-48.57	≤-26	0.01390	≤2.5	PASS
			2472	30~1000	237.34	-53.51	≤-26	0.00446	≤2.5	PASS
				1000~2387	1651.5 4	-53.15	≤-26	0.00484	≤2.5	PASS
				2387~2400	2394.1 8	-43.34	≤-16	0.04634	≤25	PASS
				2483.5~2496.5	2486.3 1	-39.45	≤-16	0.11350	≤25	PASS
				2496.5~13000	6936.3 3	-48.69	≤-26	0.01352	≤2.5	PASS
	11G	Ant1	2412	30~1000	968.96	-52.67	≤-26	0.00541	≤2.5	PASS
				1000~2387	2384.9 2	-53.06	≤-26	0.00494	≤2.5	PASS
				2387~2400	2399.9 5	-21.48	≤-16	7.11214	≤25	PASS
				2483.5~2496.5	2494.6 6	-42.80	≤-16	0.05248	≤25	PASS
				2496.5~13000	6850.2 0	-47.70	≤-26	0.01698	≤2.5	PASS
			2442	30~1000	937.19	-52.90	≤-26	0.00513	≤2.5	PASS
				1000~2387	1793.0	-52.97	≤-26	0.00505	≤2.5	PASS

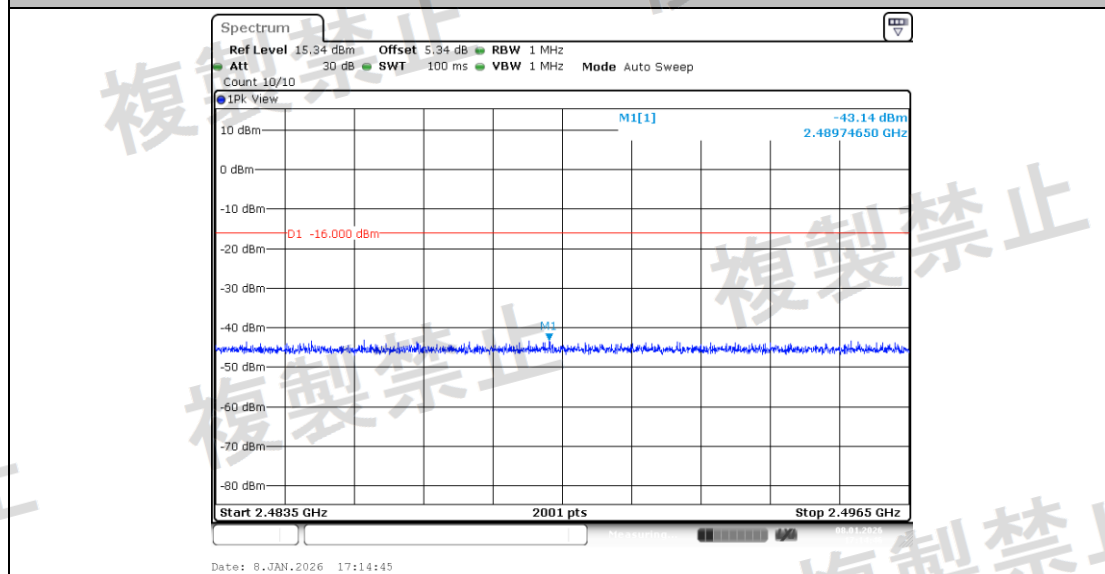
					2					
				2387~2400	2390.1 0	-43.68	≤-16	0.04285	≤25	PASS
				2483.5~2496.5	2489.6 9	-43.19	≤-16	0.04797	≤25	PASS
				2496.5~13000	6862.2 8	-48.82	≤-26	0.01312	≤2.5	PASS
			2472	30~1000	913.43	-42.02	≤-26	0.06281	≤2.5	PASS
				1000~2387	2203.2 2	-52.84	≤-26	0.00520	≤2.5	PASS
				2387~2400	2397.1 7	-43.46	≤-16	0.04508	≤25	PASS
				2483.5~2496.5	2483.5 1	-27.40	≤-16	1.81970	≤25	PASS
				2496.5~13000	6986.7 5	-49.02	≤-26	0.01253	≤2.5	PASS
	11N20Si SO	Ant1	2412	30~1000	241.70	-52.63	≤-26	0.00546	≤2.5	PASS
				1000~2387	1943.1 6	-52.95	≤-26	0.00507	≤2.5	PASS
				2387~2400	2399.9 4	-19.49	≤-16	11.2460 5	≤25	PASS
				2483.5~2496.5	2489.4 7	-42.47	≤-16	0.05662	≤25	PASS
				2496.5~13000	6887.4 9	-48.35	≤-26	0.01462	≤2.5	PASS
			2442	30~1000	904.46	-42.42	≤-26	0.05728	≤2.5	PASS
				1000~2387	2244.4 9	-53.17	≤-26	0.00482	≤2.5	PASS
				2387~2400	2399.9 7	-42.84	≤-16	0.05200	≤25	PASS
				2483.5~2496.5	2489.6 8	-43.35	≤-16	0.04624	≤25	PASS
				2496.5~13000	6673.2 2	-48.32	≤-26	0.01472	≤2.5	PASS
			2472	30~1000	864.44	-53.16	≤-26	0.00483	≤2.5	PASS
				1000~2387	2350.9 4	-52.74	≤-26	0.00532	≤2.5	PASS
				2387~2400	2393.5 4	-43.62	≤-16	0.04345	≤25	PASS
				2483.5~2496.5	2483.5 1	-27.24	≤-16	1.88799	≤25	PASS
				2496.5~13000	6956.8 1	-48.25	≤-26	0.01496	≤2.5	PASS

Test Graphs

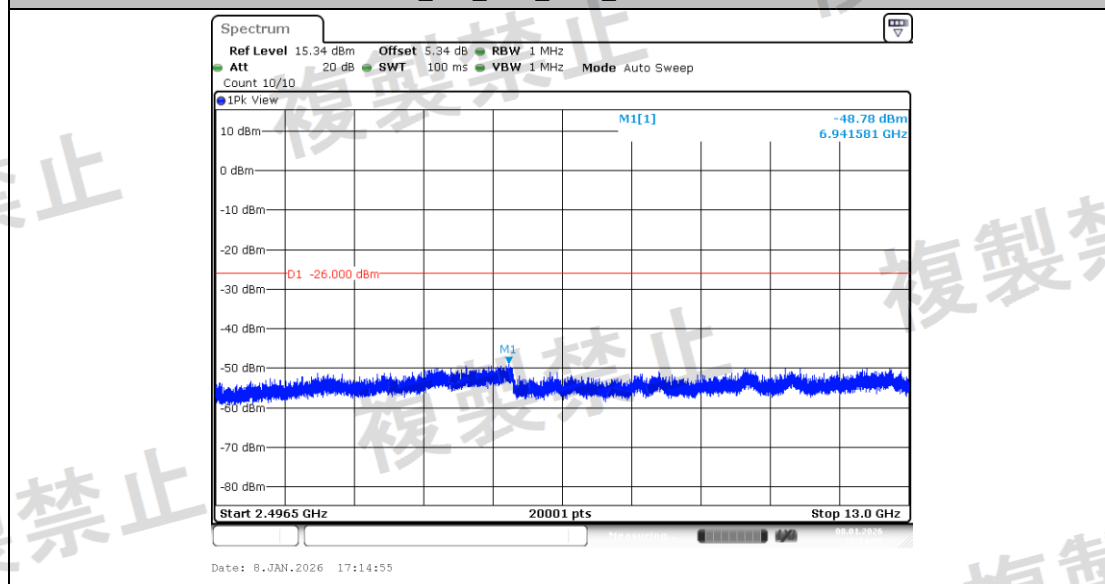


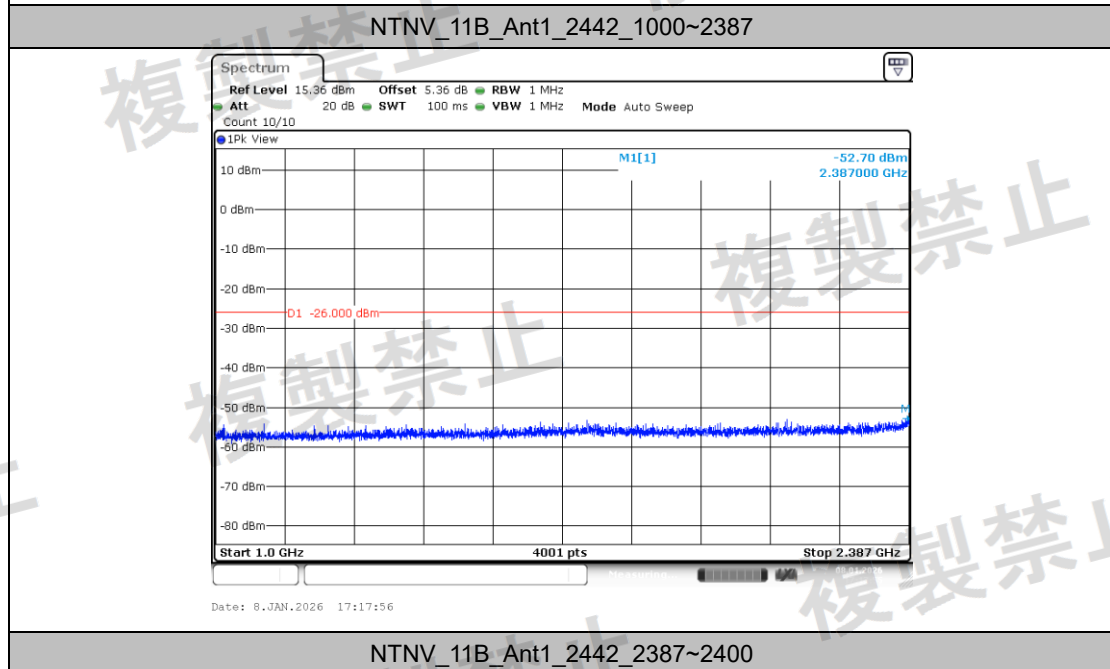
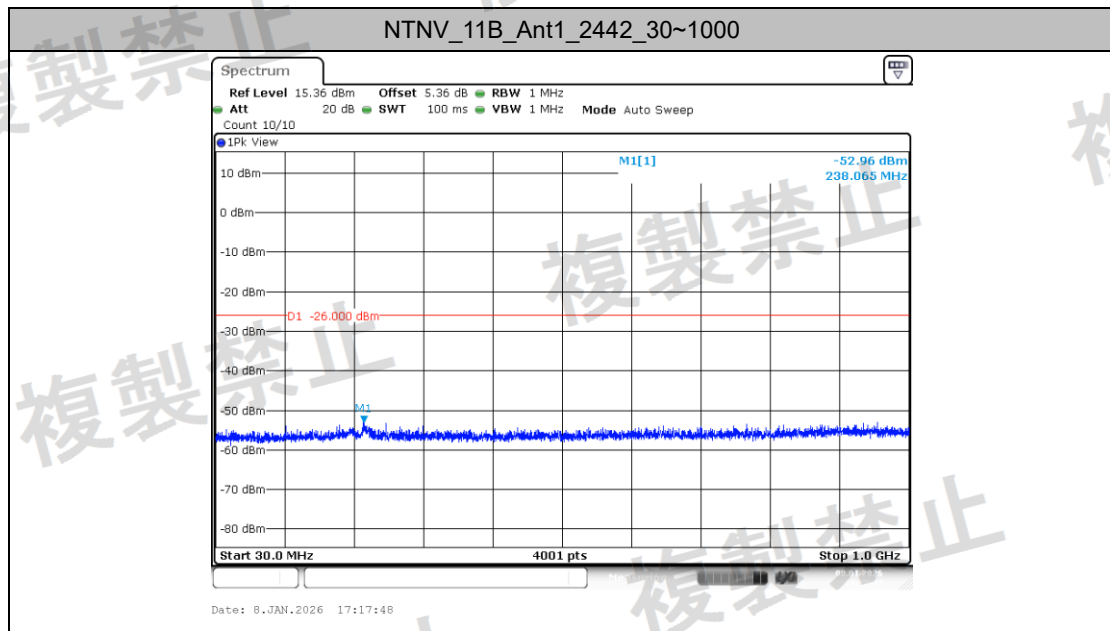


NTNV_11B_Ant1_2412_2483.5~2496.5

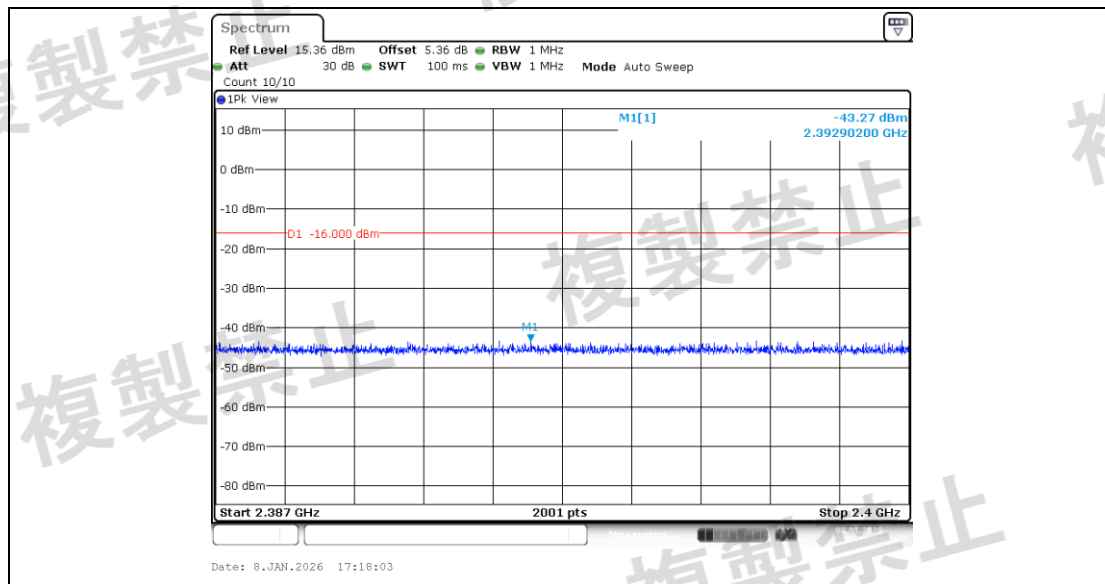


NTNV_11B_Ant1_2412_2496.5~13000

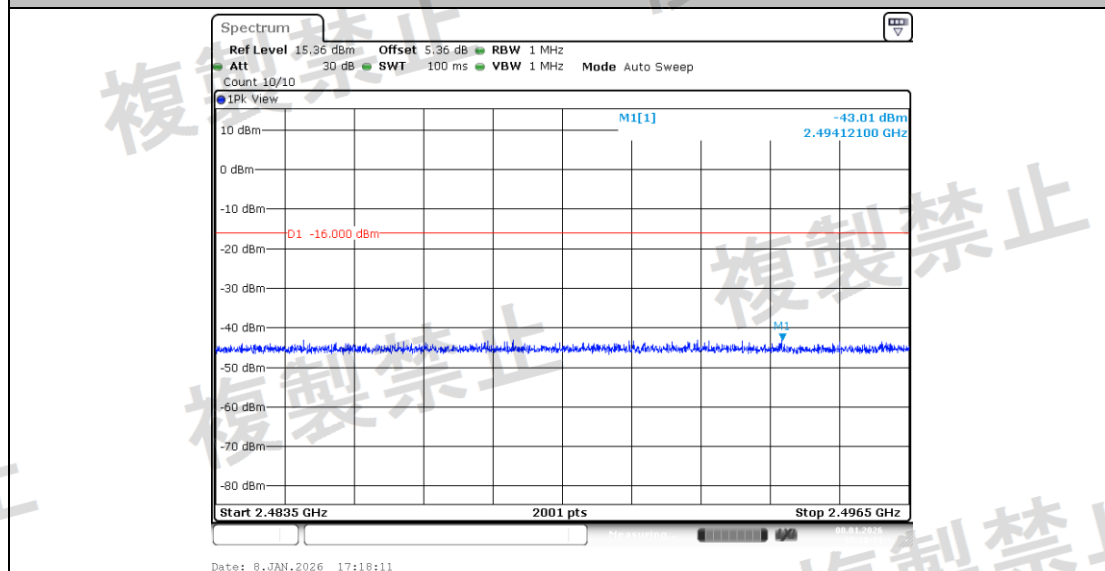




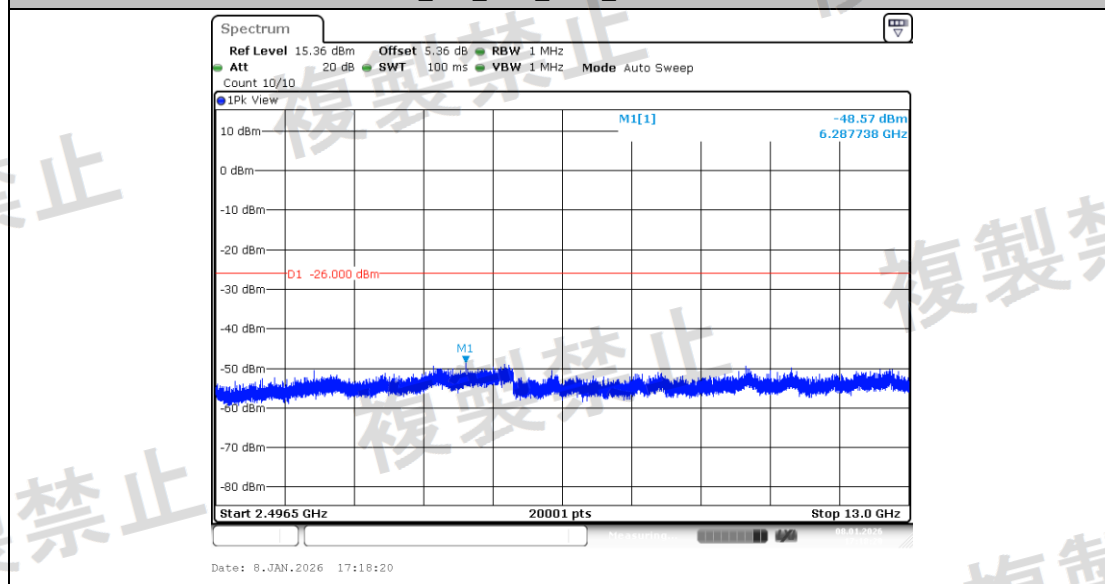
NTNV_11B_Ant1_2442_2387~2400

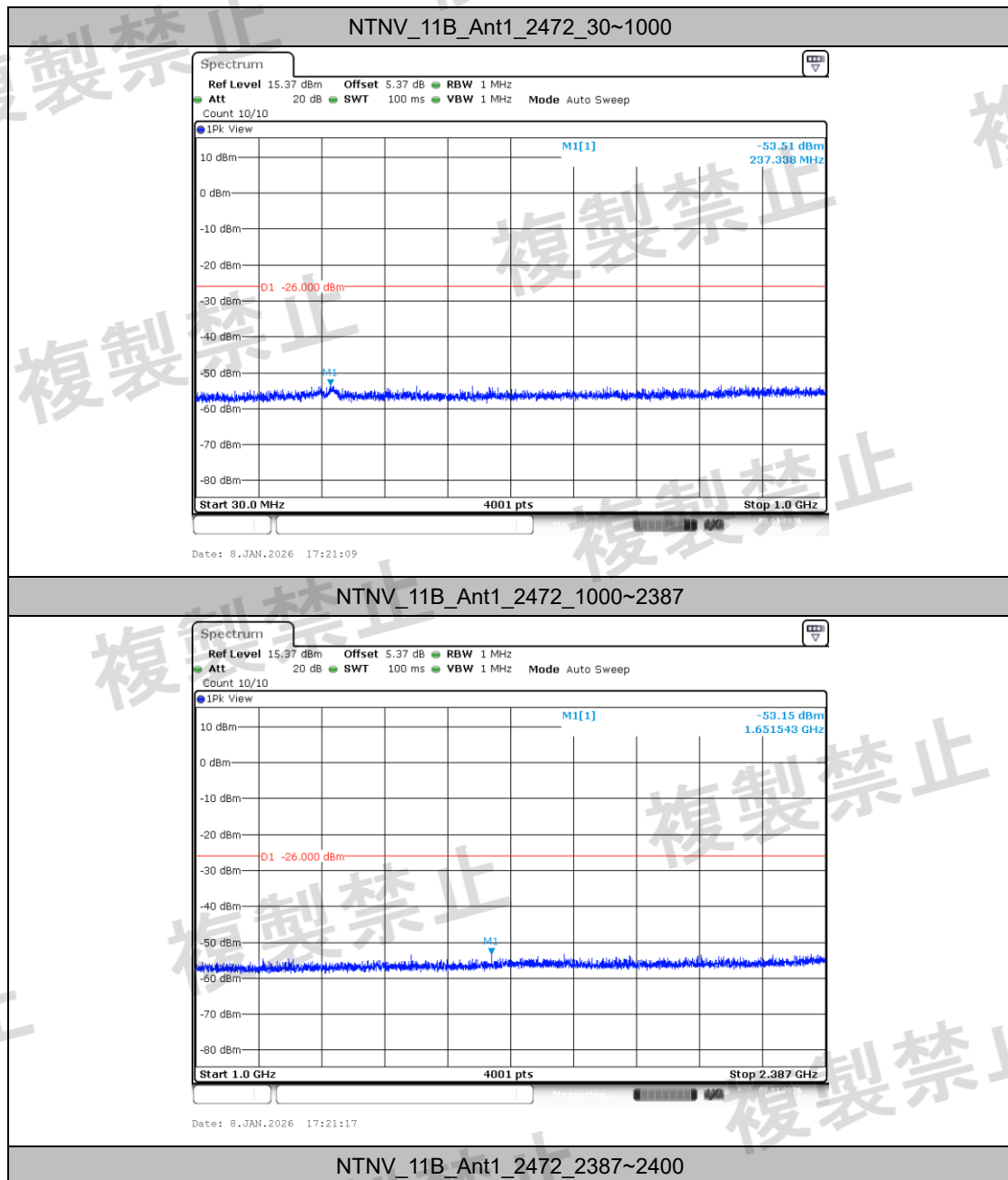


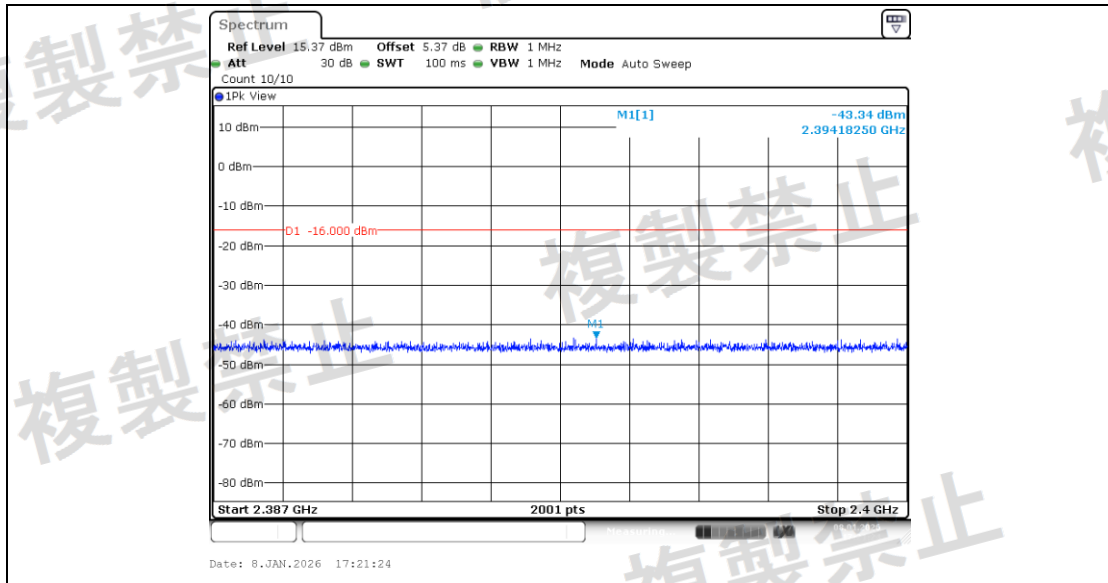
NTNV_11B_Ant1_2442_2483.5~2496.5



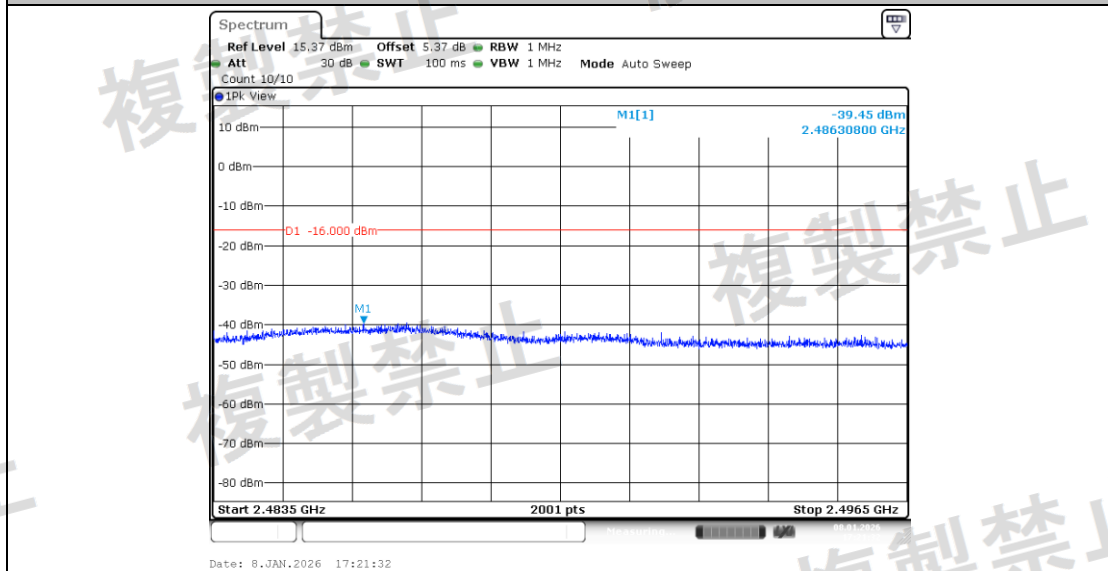
NTNV_11B_Ant1_2442_2496.5~13000



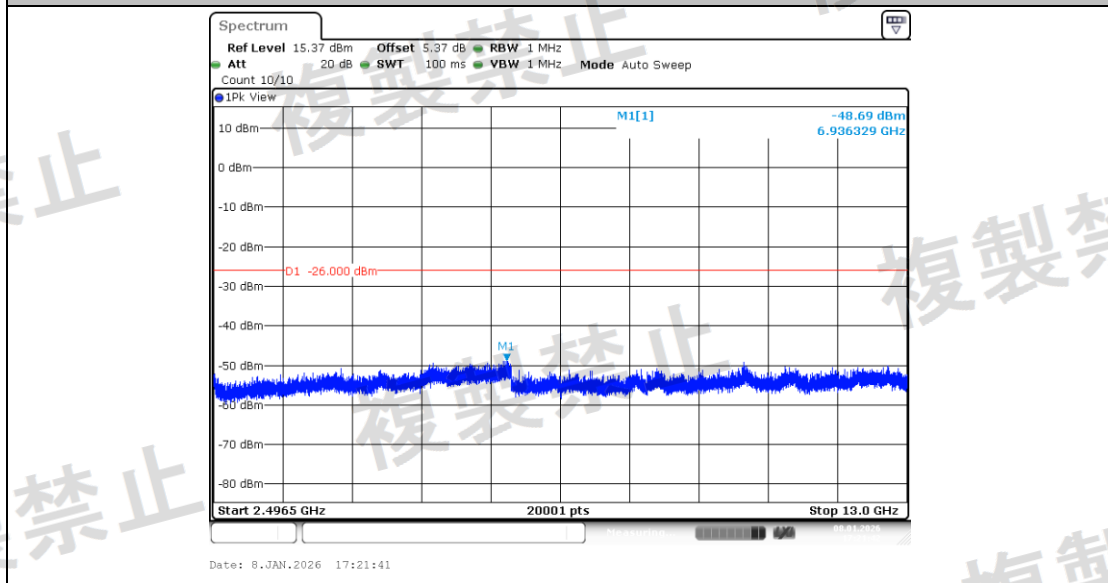


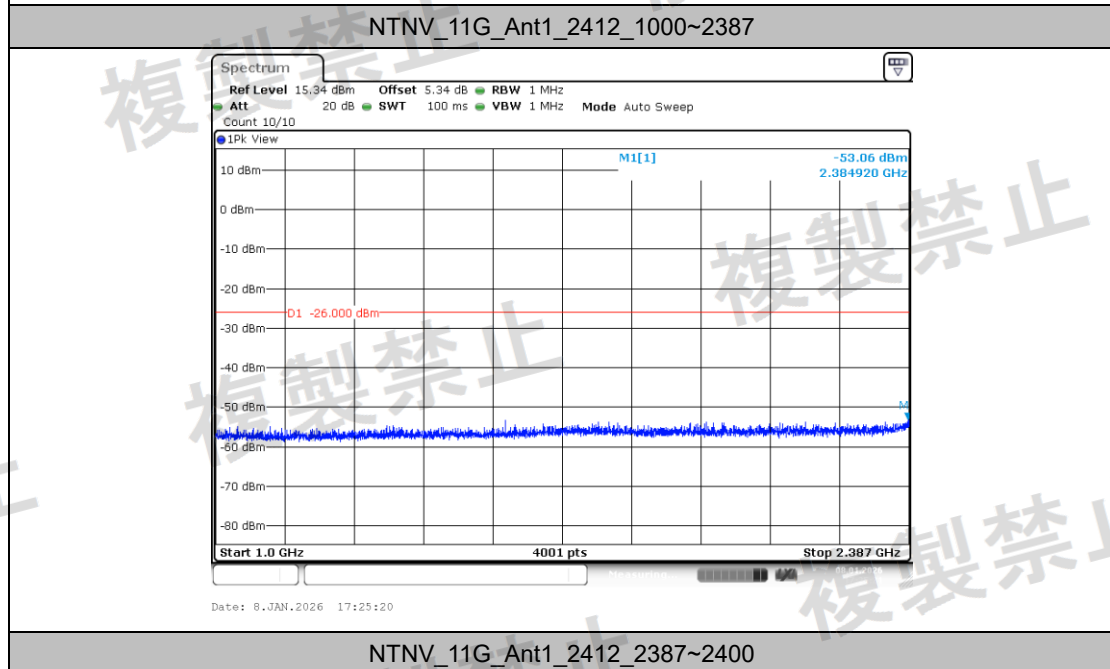
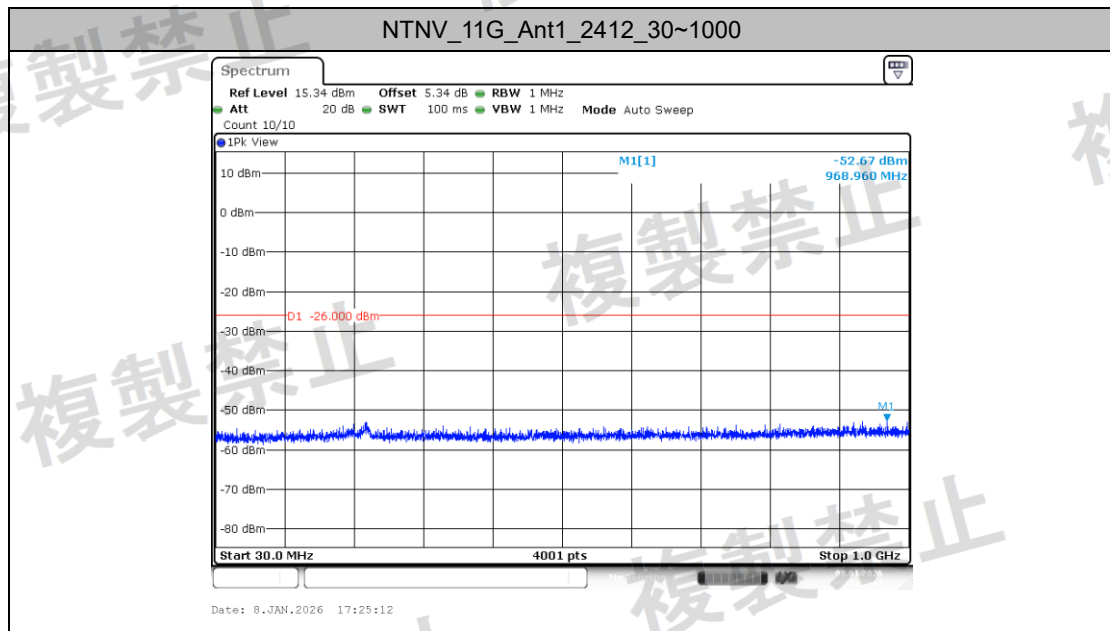


NTNV_11B_Ant1_2472_2483.5~2496.5

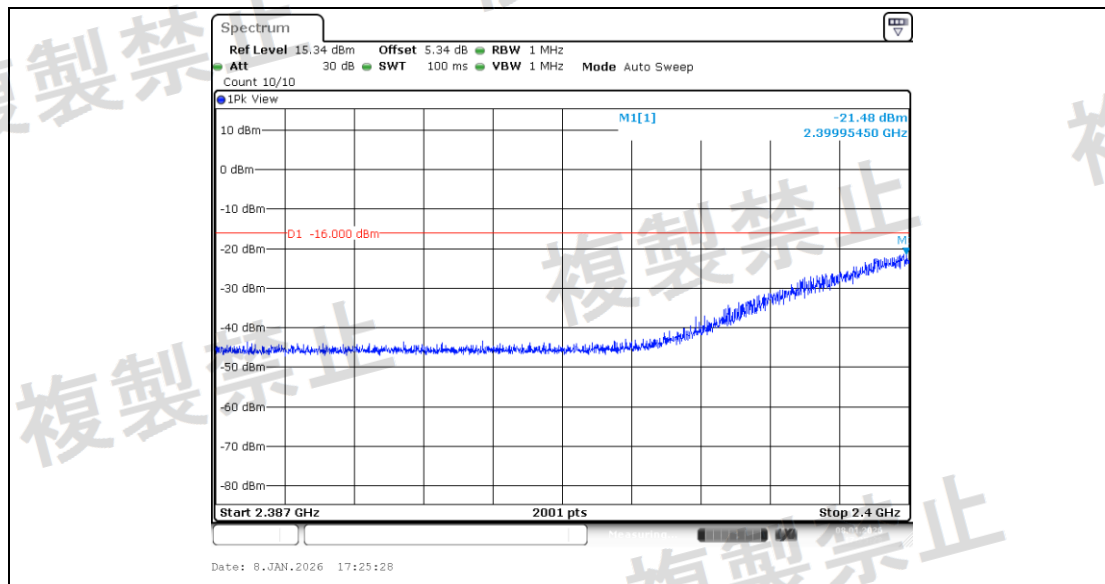


NTNV_11B_Ant1_2472_2496.5~13000

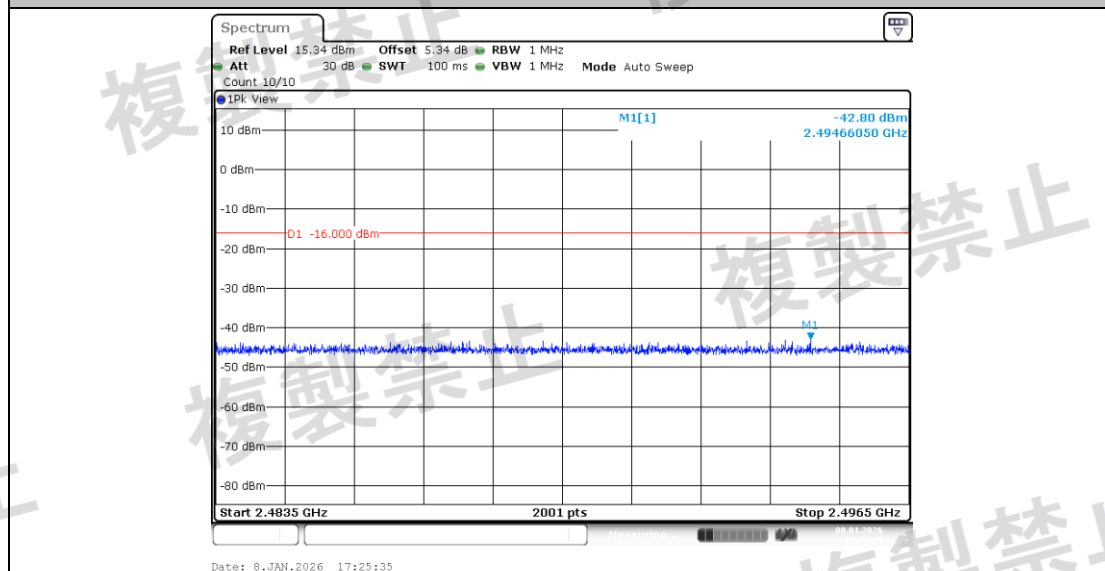




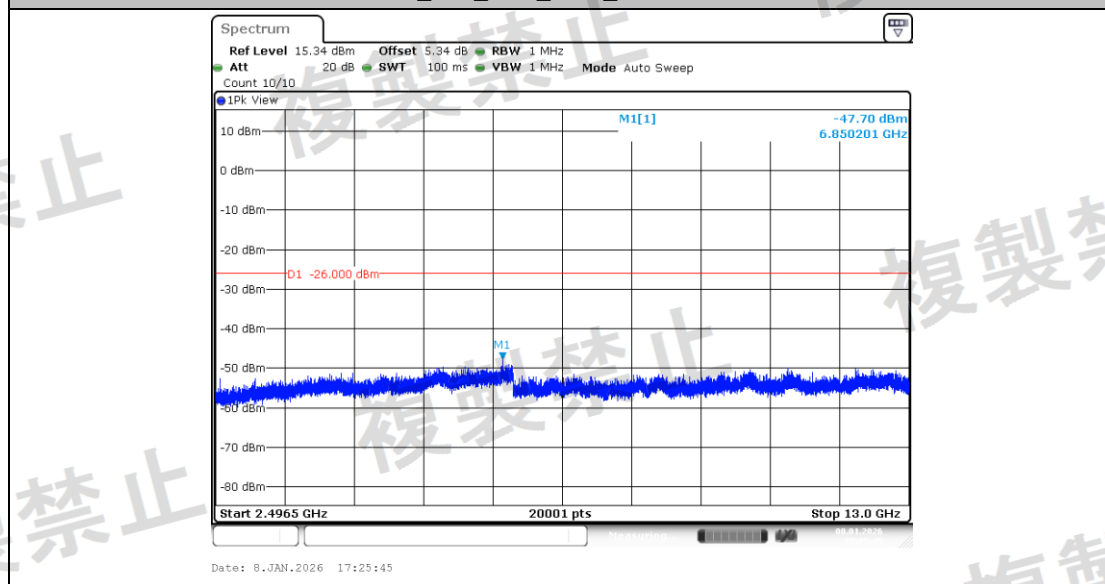
NTNV_11G_Ant1_2412_2387~2400

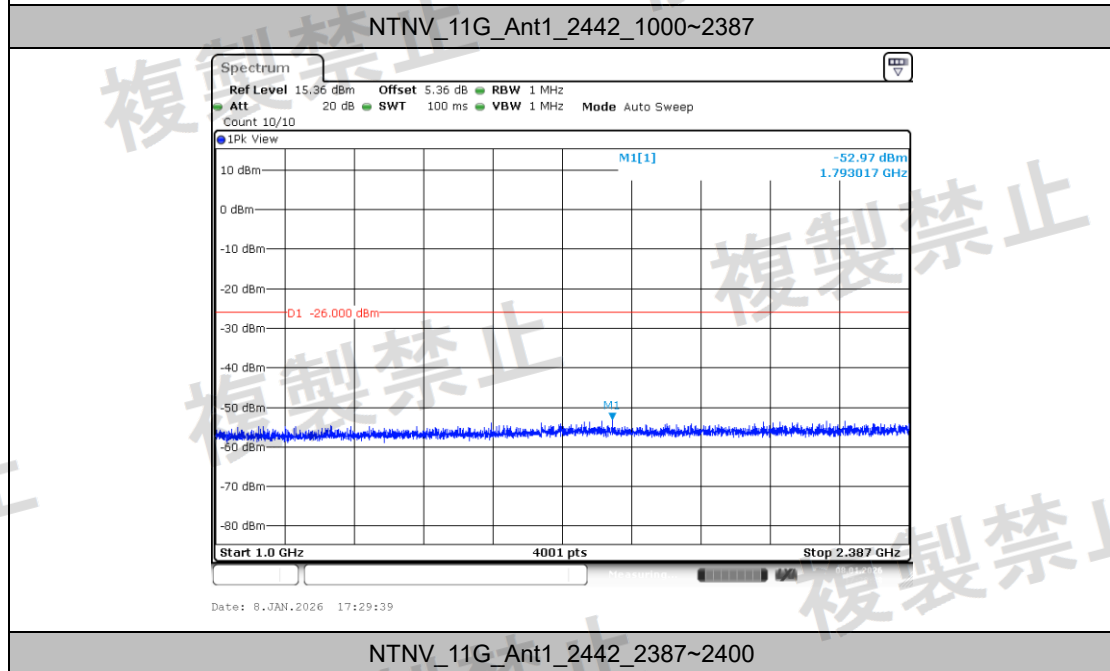
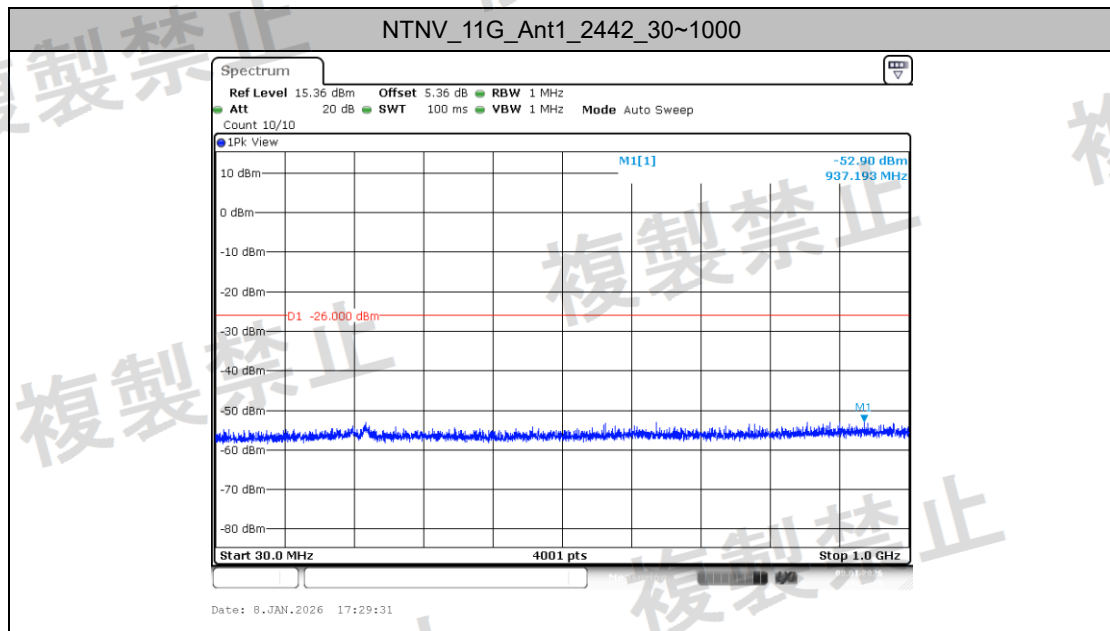


NTNV_11G_Ant1_2412_2483.5~2496.5

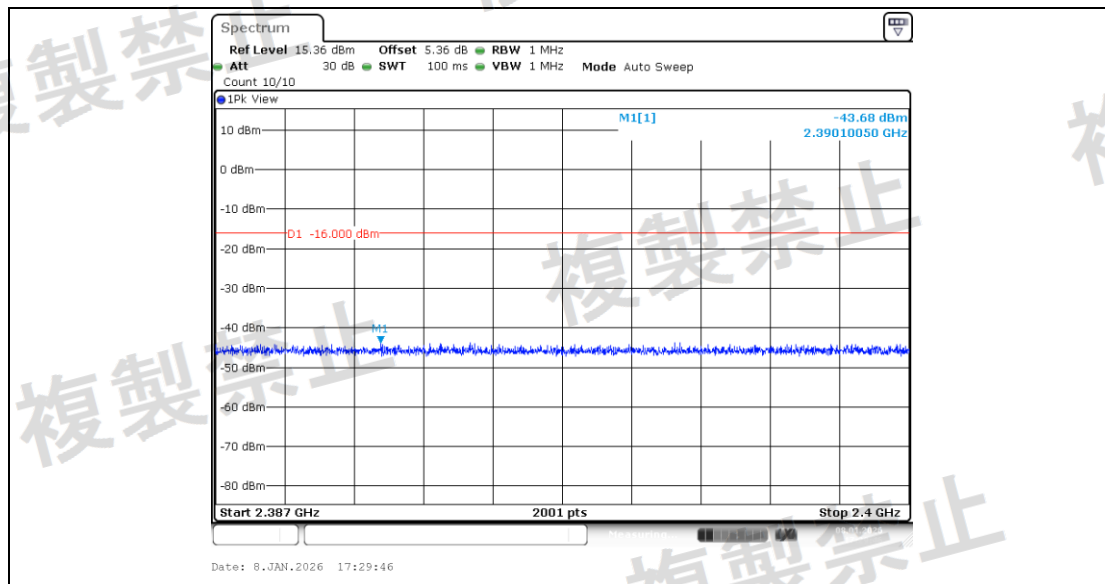


NTNV_11G_Ant1_2412_2496.5~13000

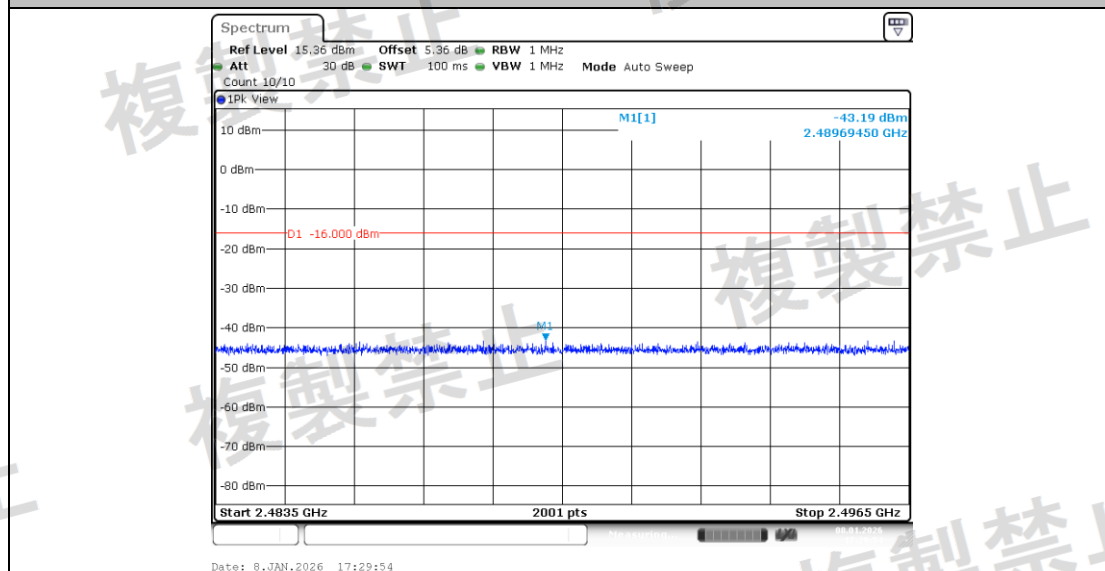




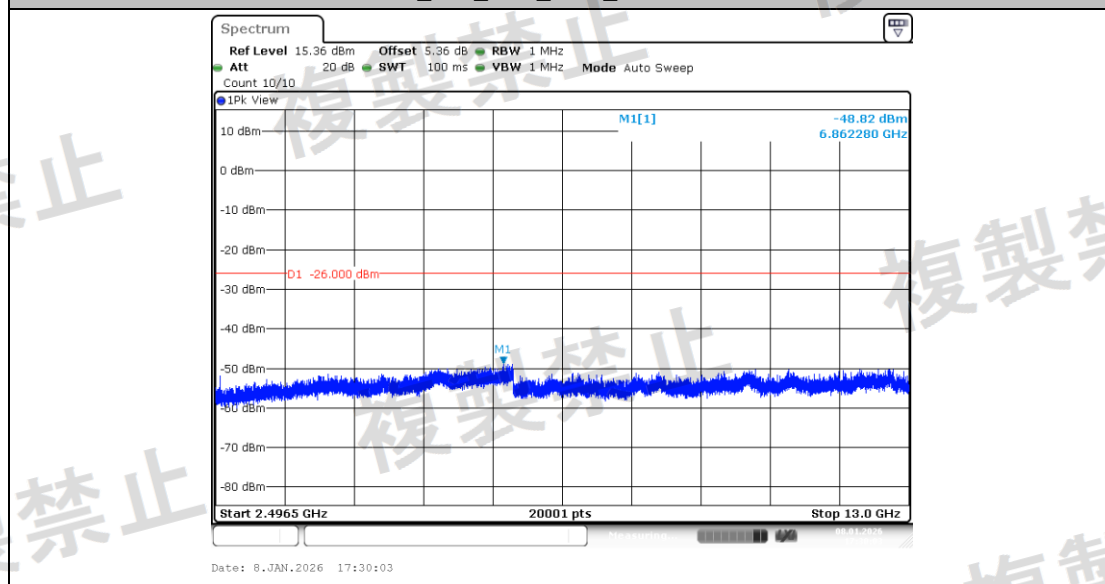
NTNV_11G_Ant1_2442_2387~2400

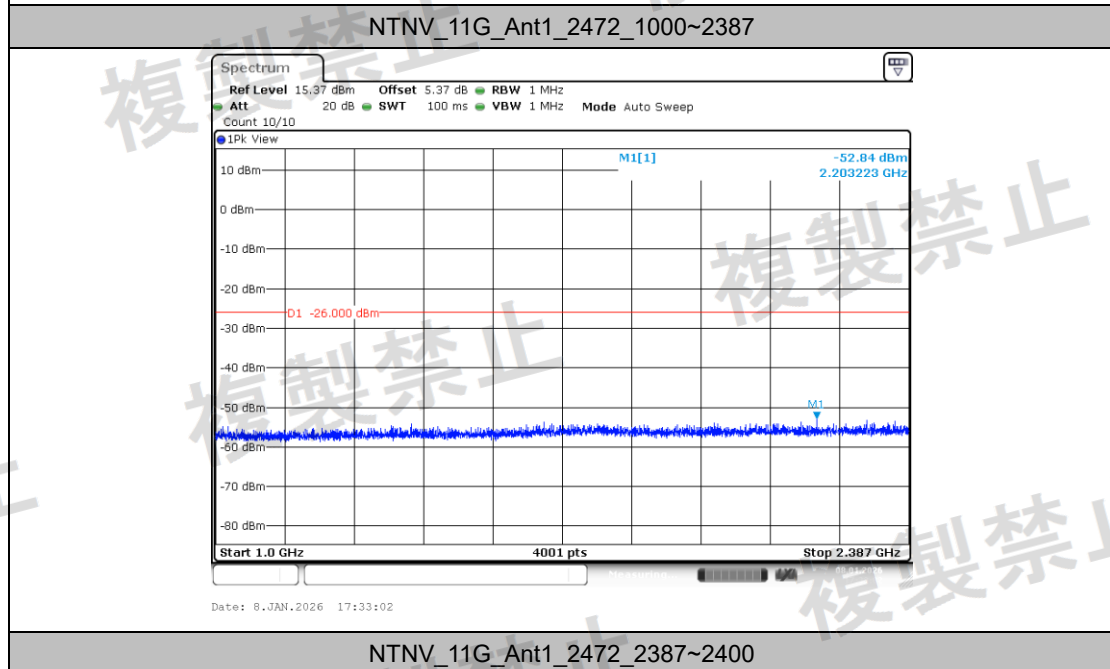
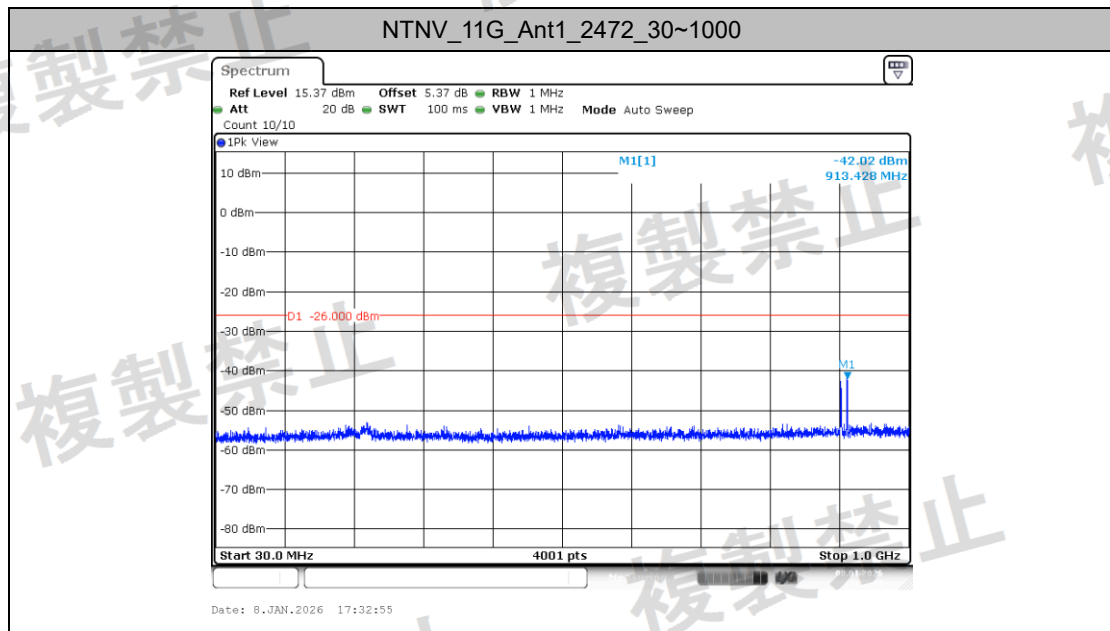


NTNV_11G_Ant1_2442_2483.5~2496.5

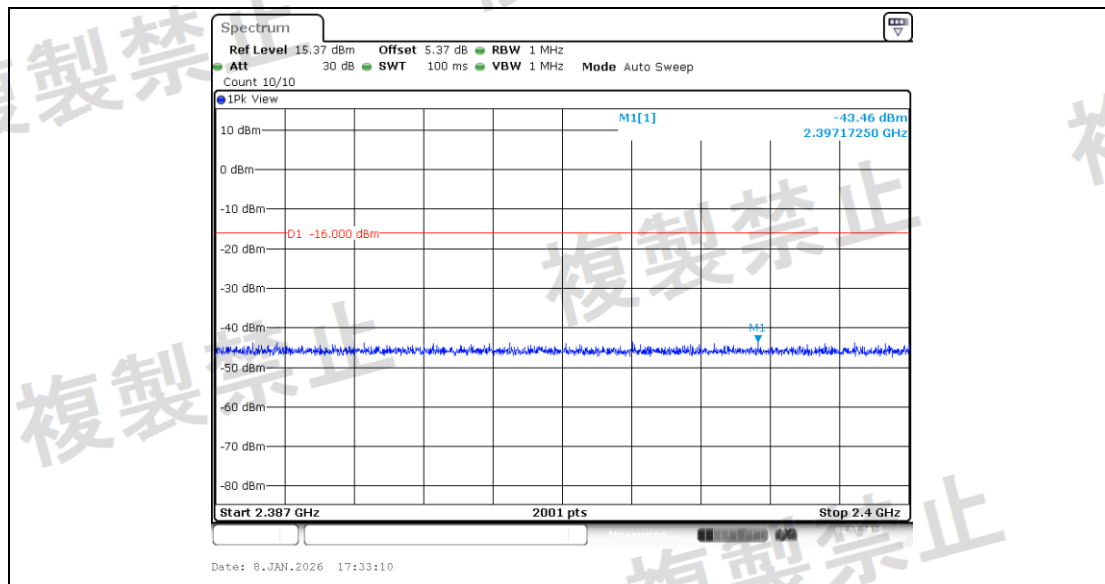


NTNV_11G_Ant1_2442_2496.5~13000

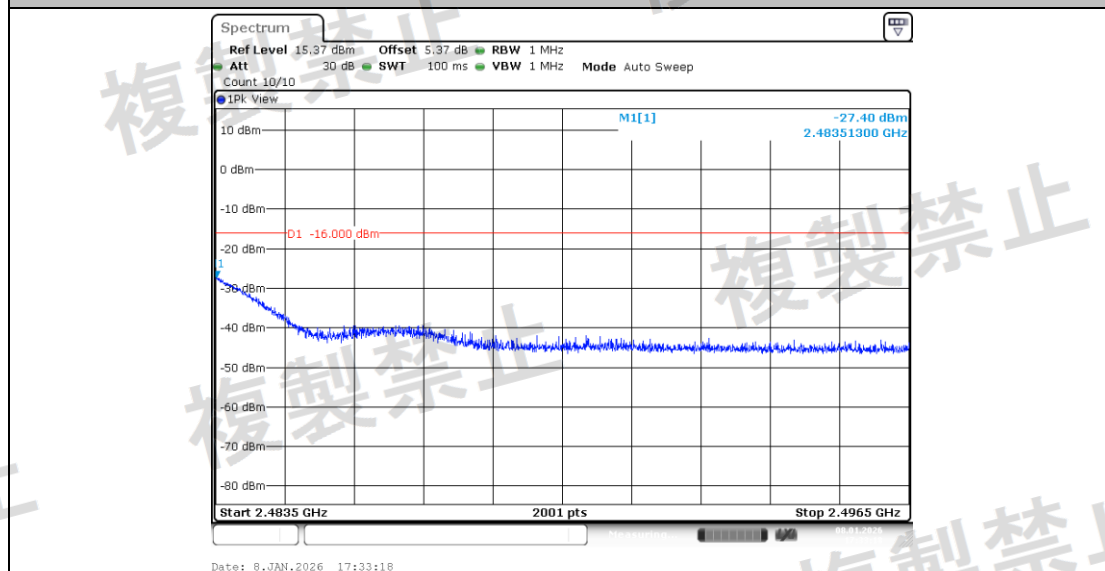




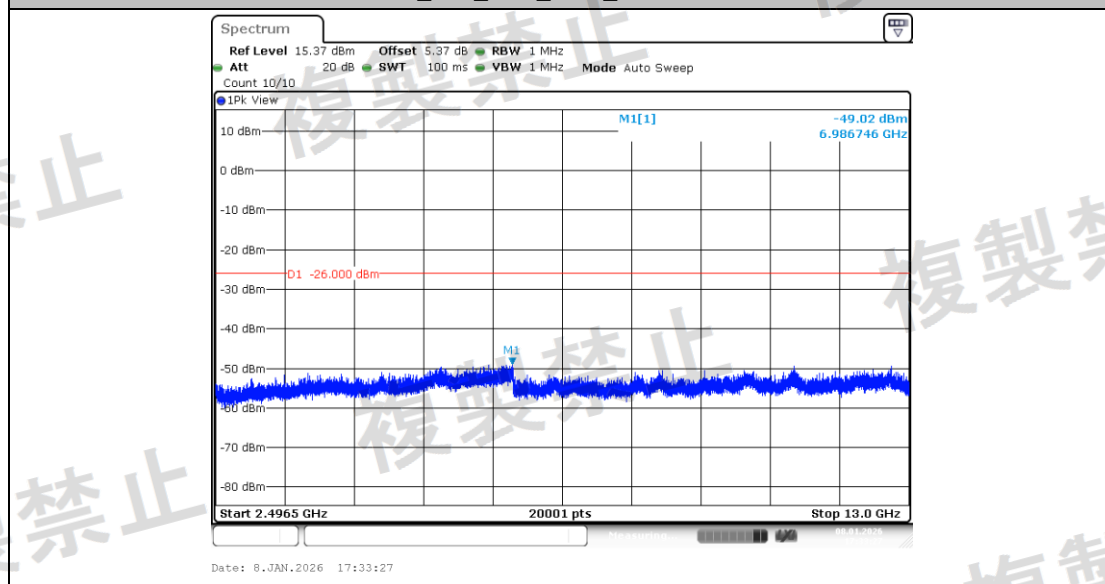
NTNV_11G_Ant1_2472_2387~2400

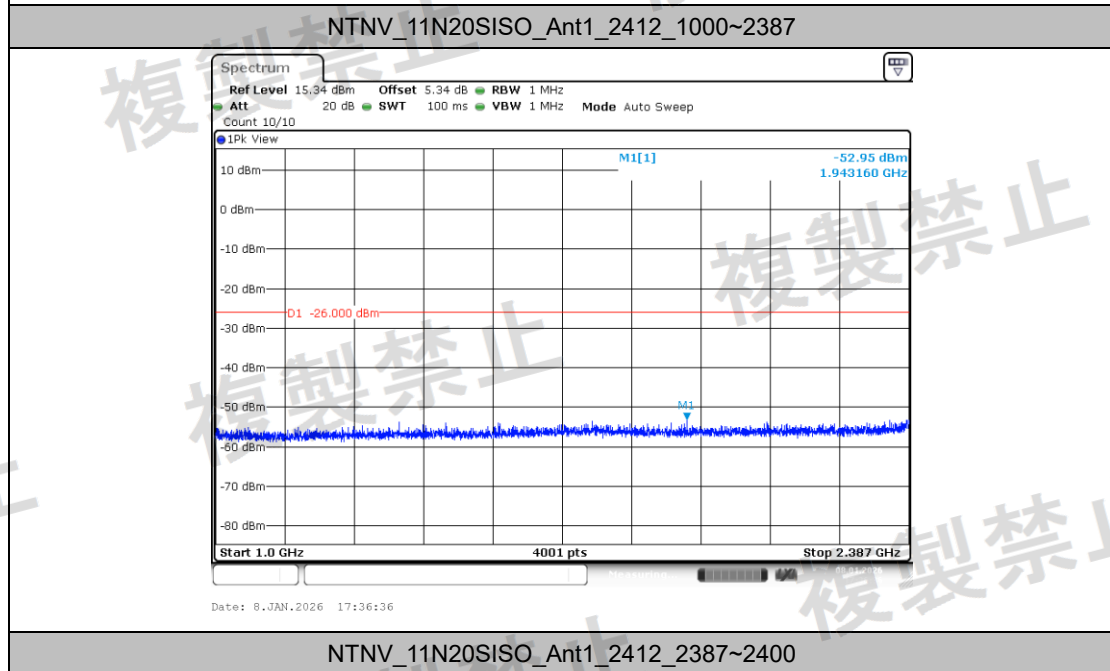
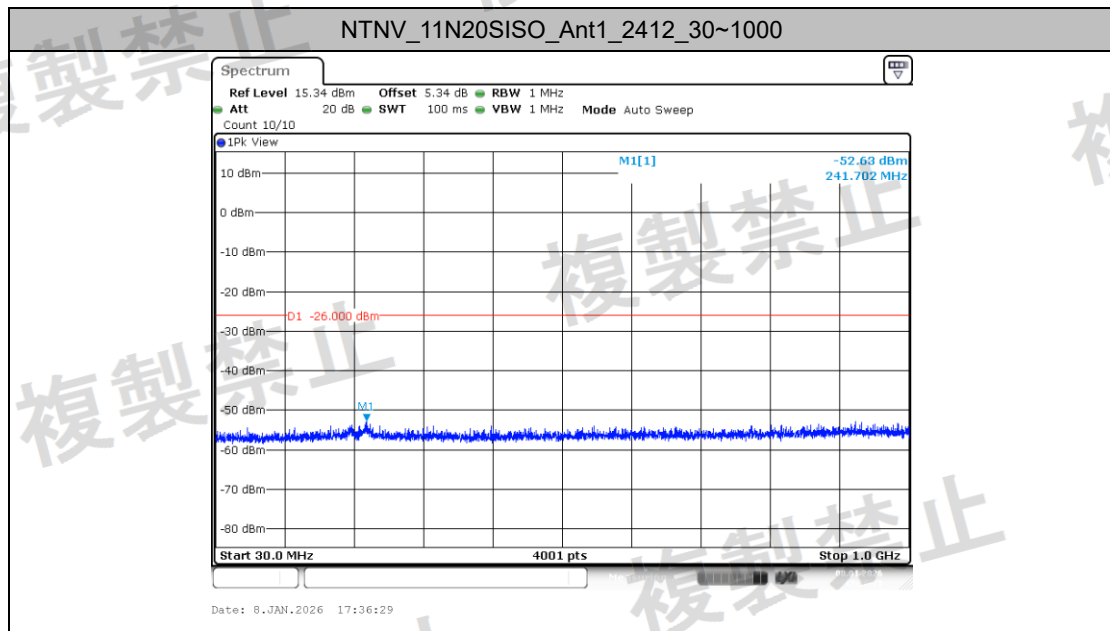


NTNV_11G_Ant1_2472_2483.5~2496.5

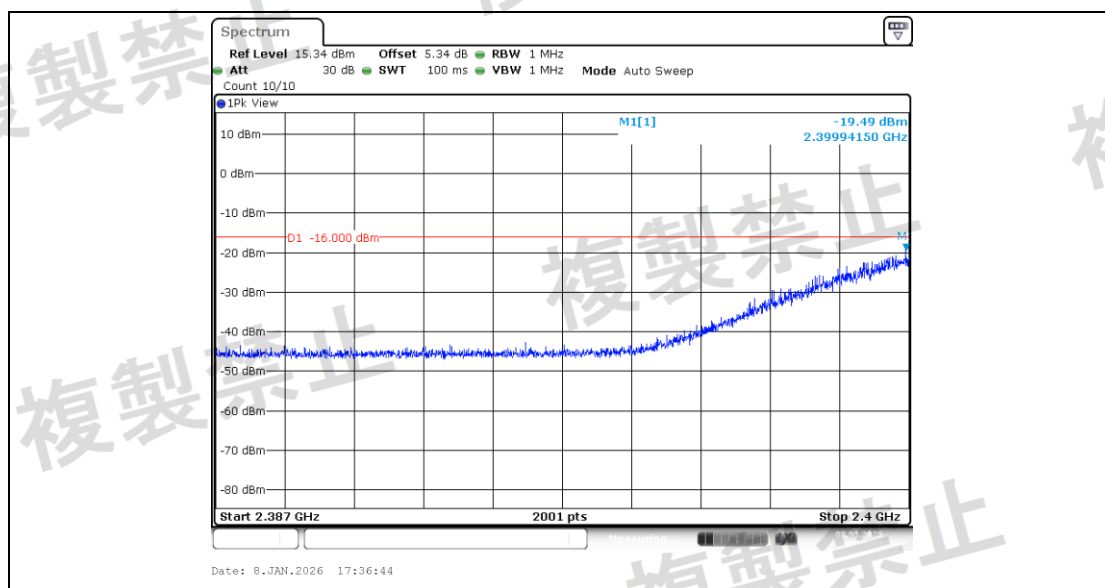


NTNV_11G_Ant1_2472_2496.5~13000

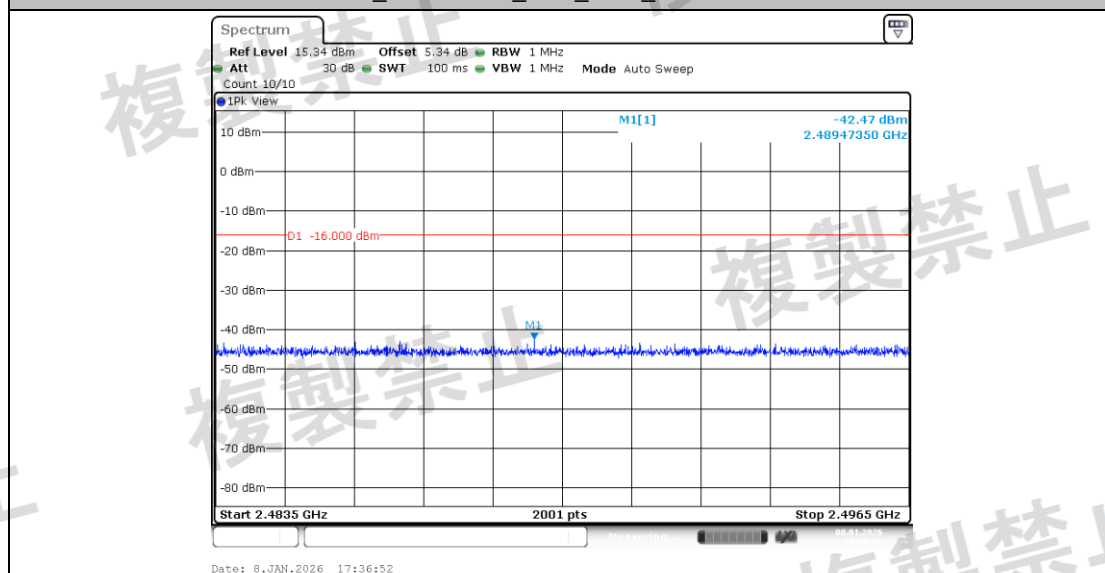




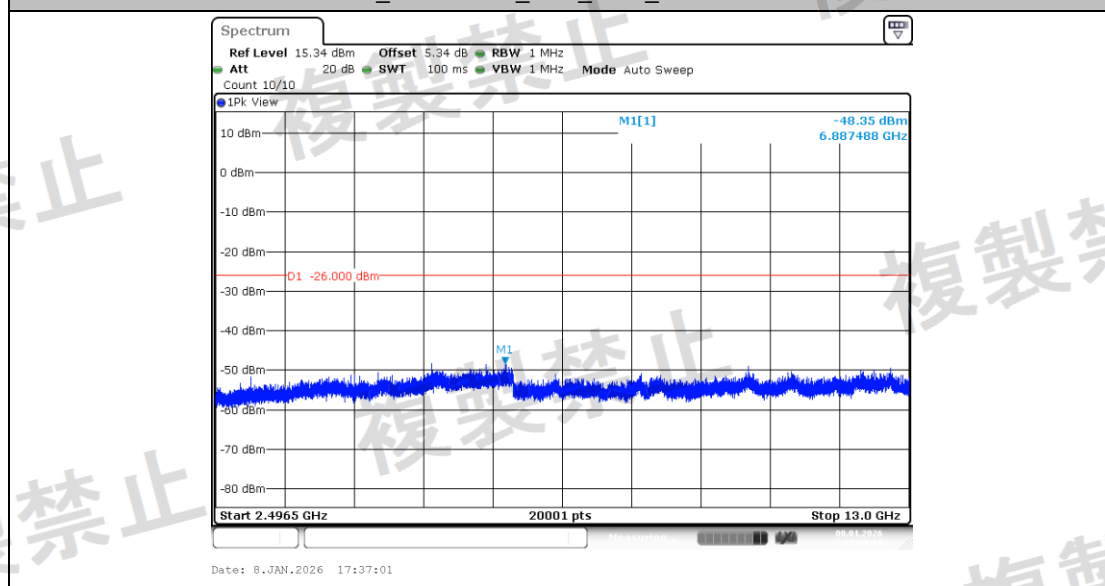
NTNV_11N20SISO_Ant1_2412_2387~2400

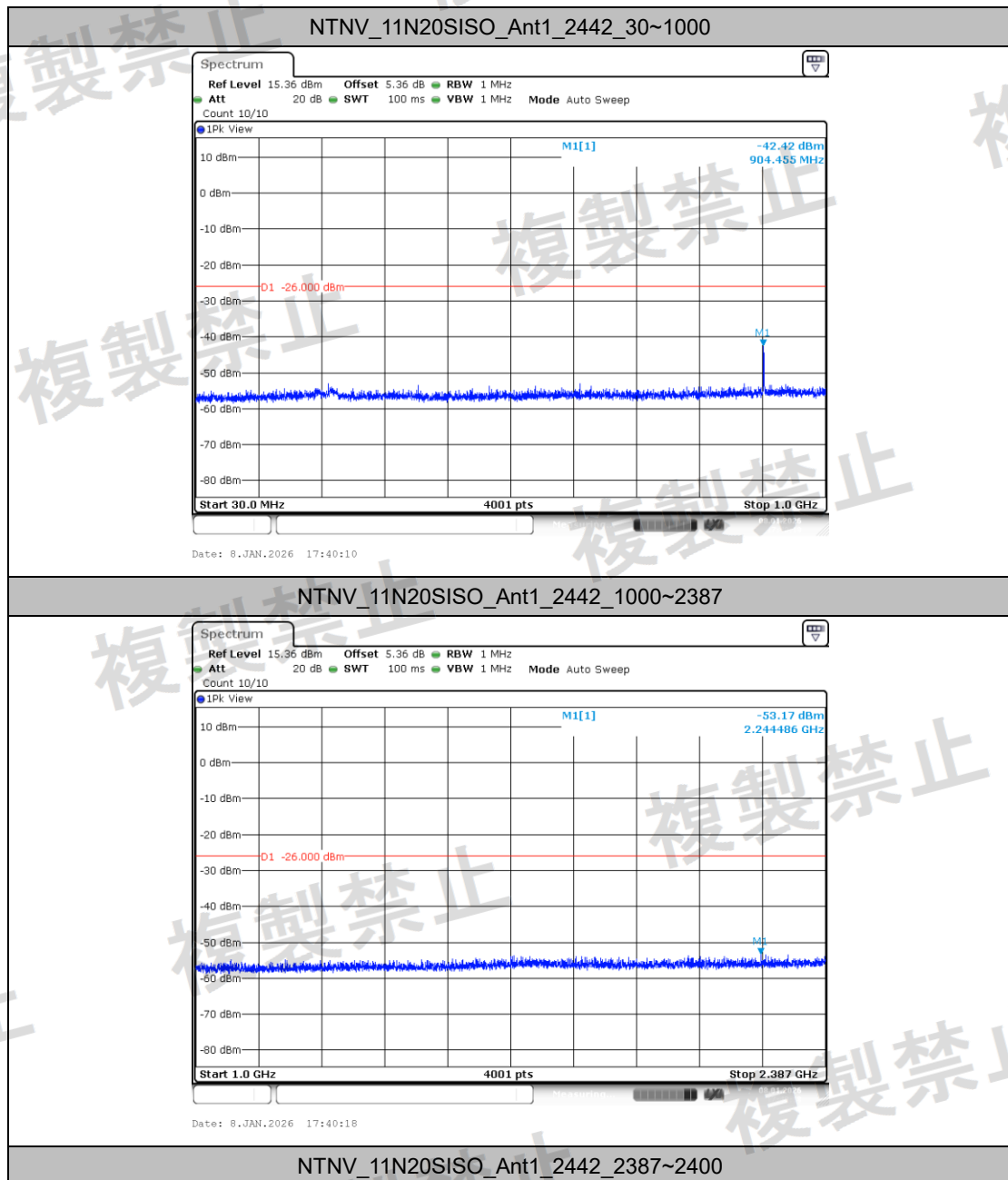


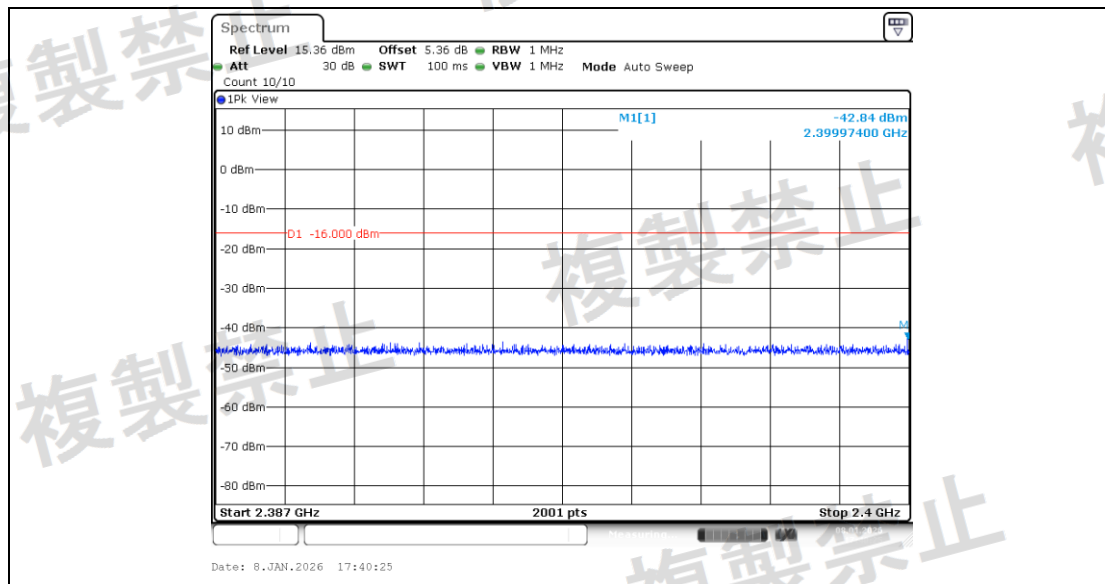
NTNV_11N20SISO_Ant1_2412_2483.5~2496.5



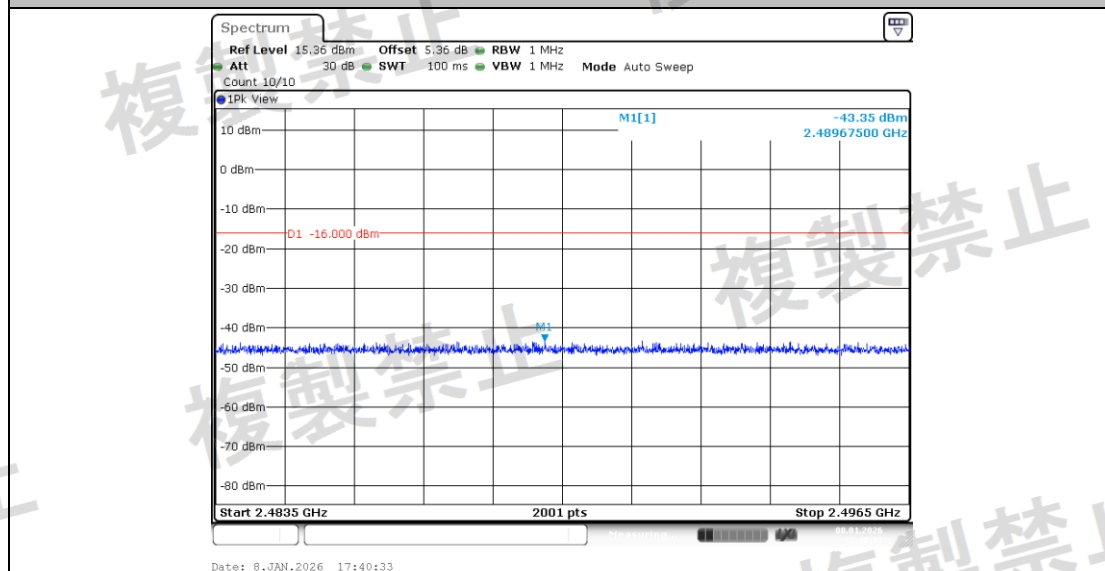
NTNV_11N20SISO_Ant1_2412_2496.5~13000



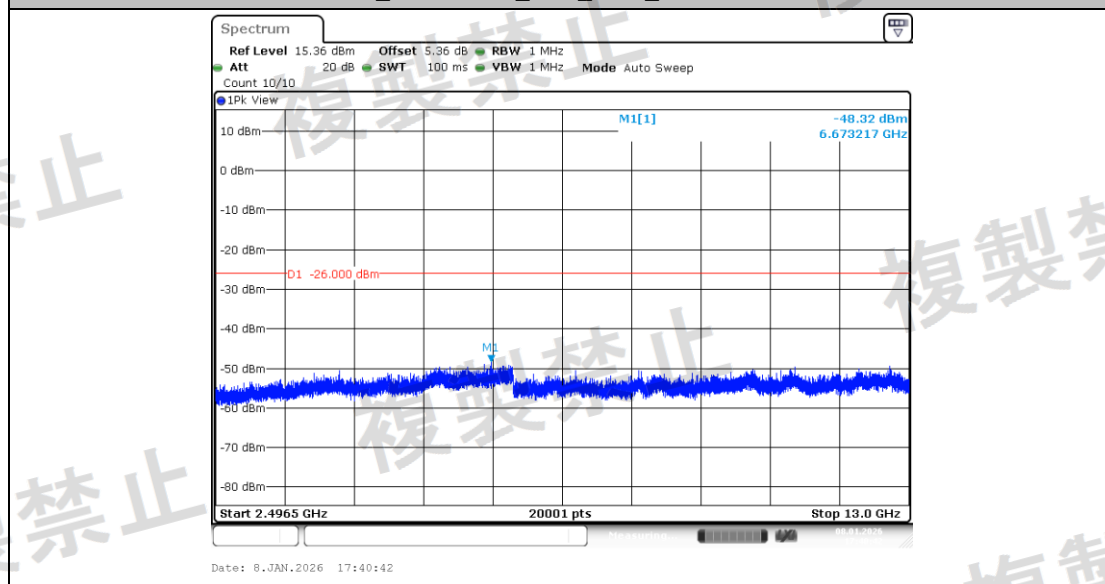


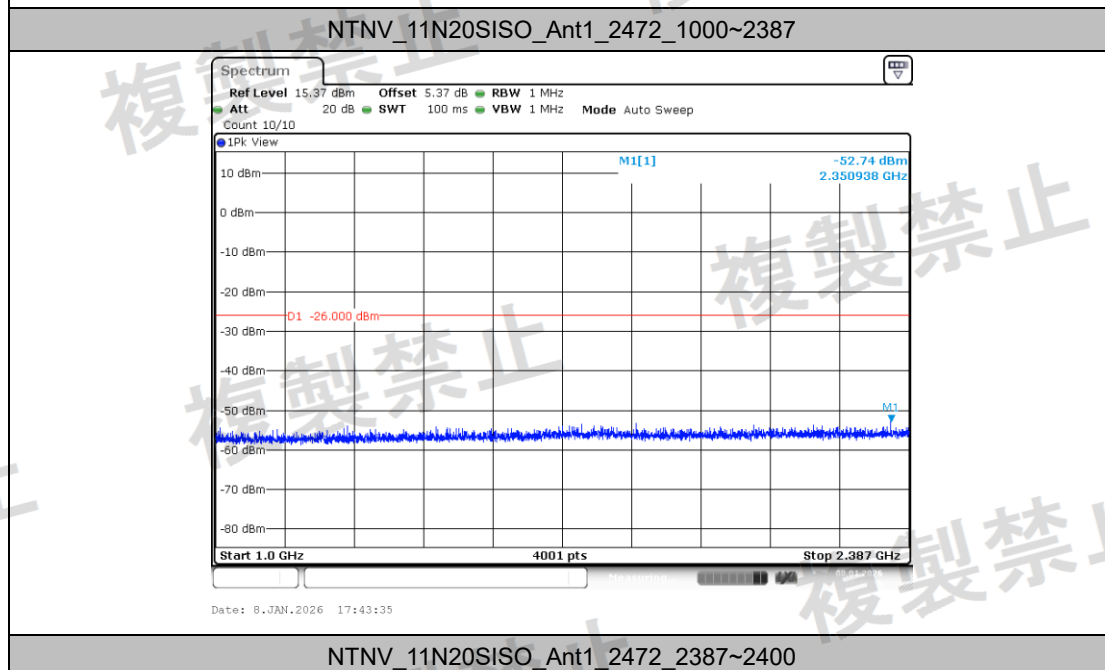
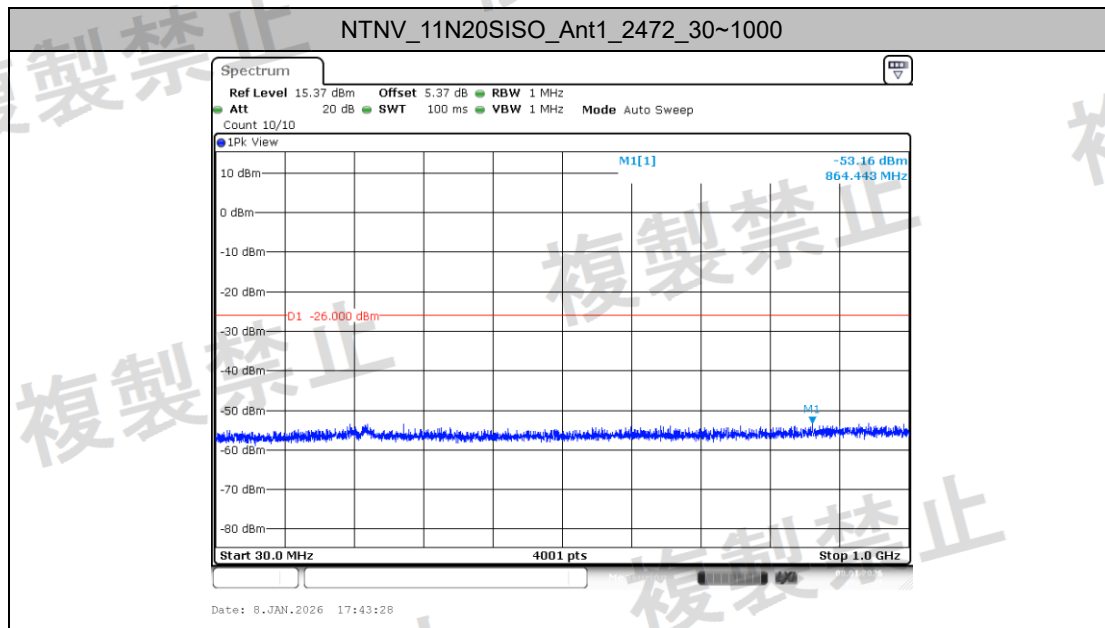


NTNV_11N20SISO_Ant1_2442_2483.5~2496.5

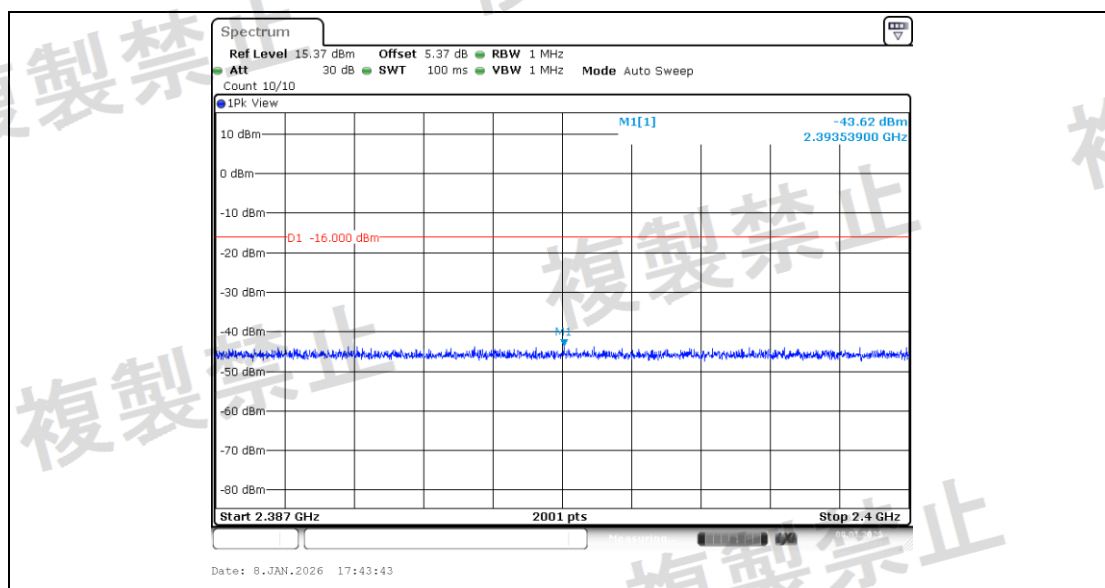


NTNV_11N20SISO_Ant1_2442_2496.5~13000

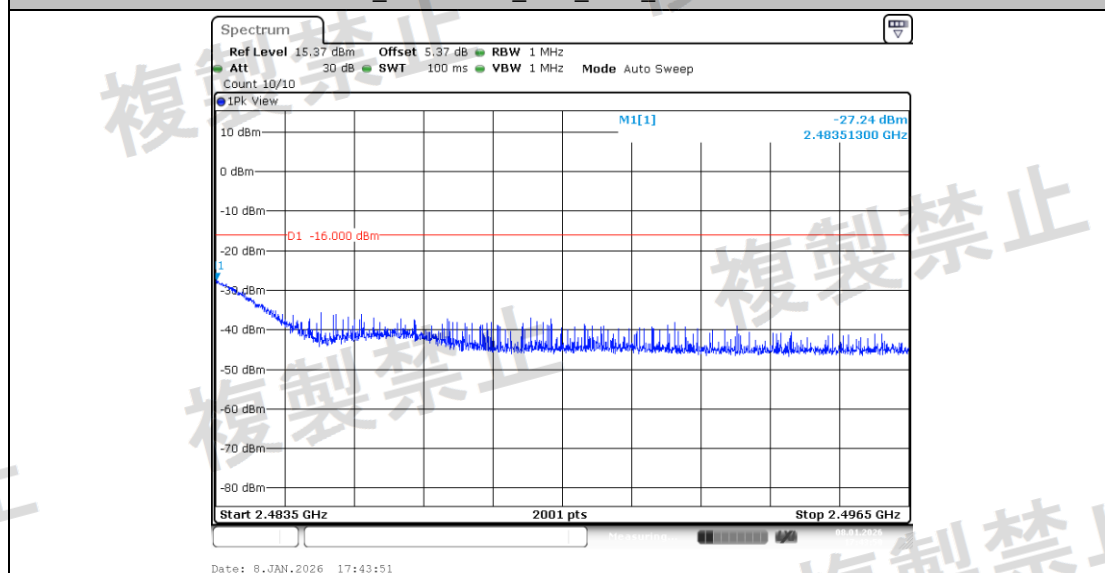




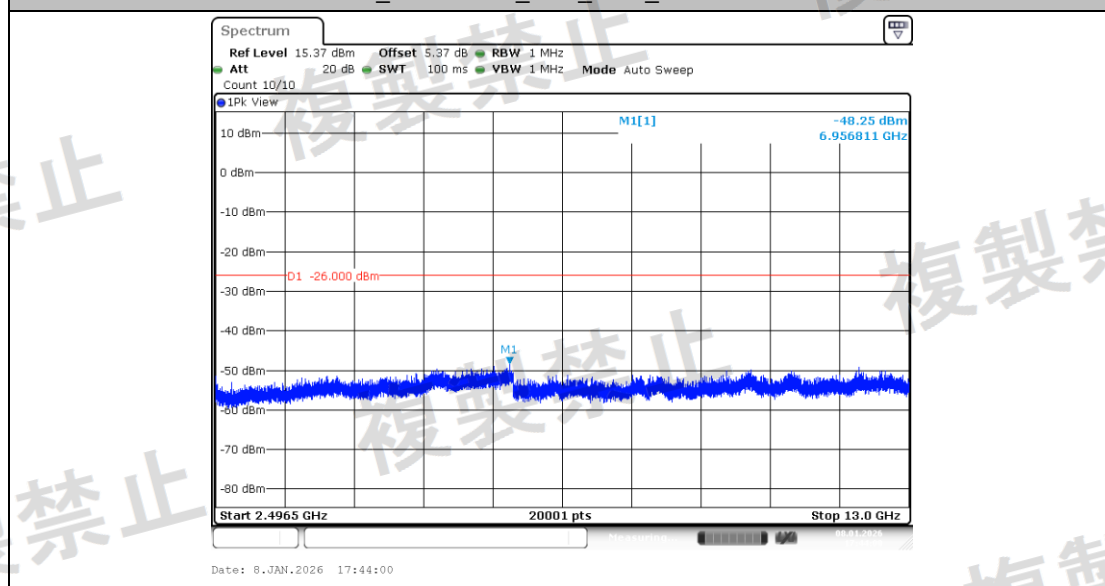
NTNV_11N20SISO_Ant1_2472_2387~2400



NTNV_11N20SISO_Ant1_2472_2483.5~2496.5



NTNV_11N20SISO_Ant1_2472_2496.5~13000

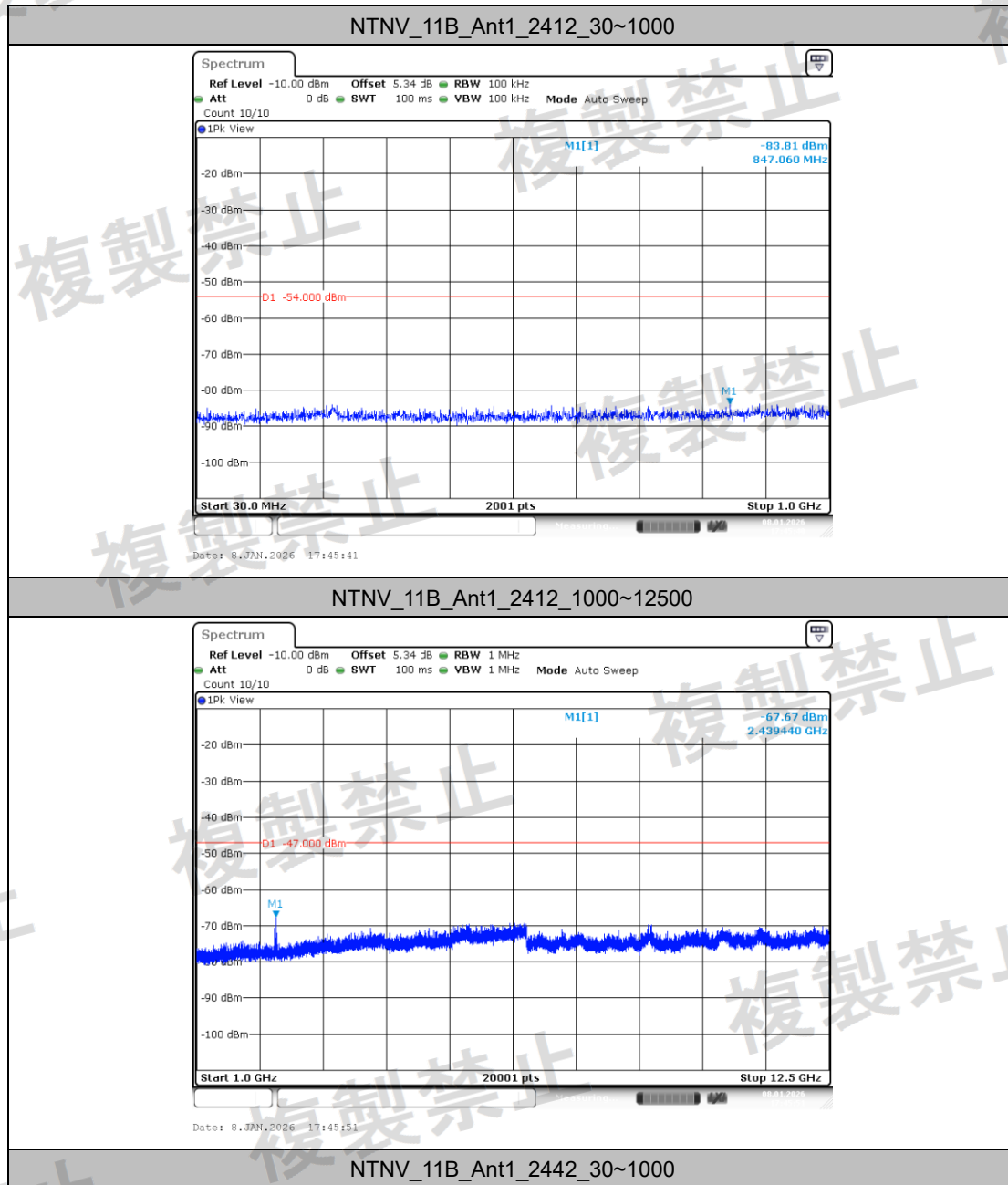


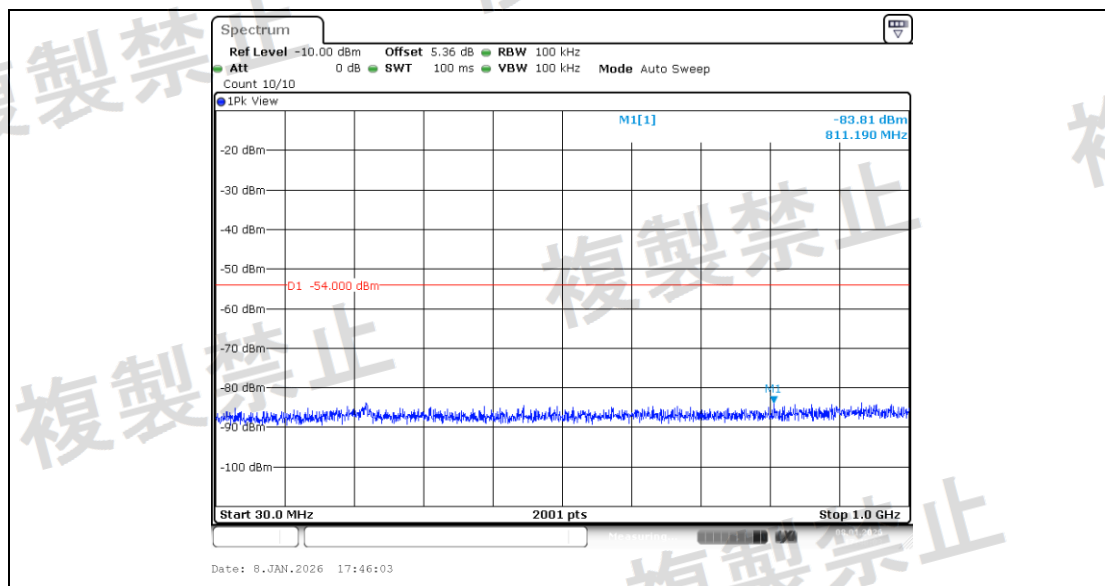
Appendix E: Spurious Emission of RX

Test Result

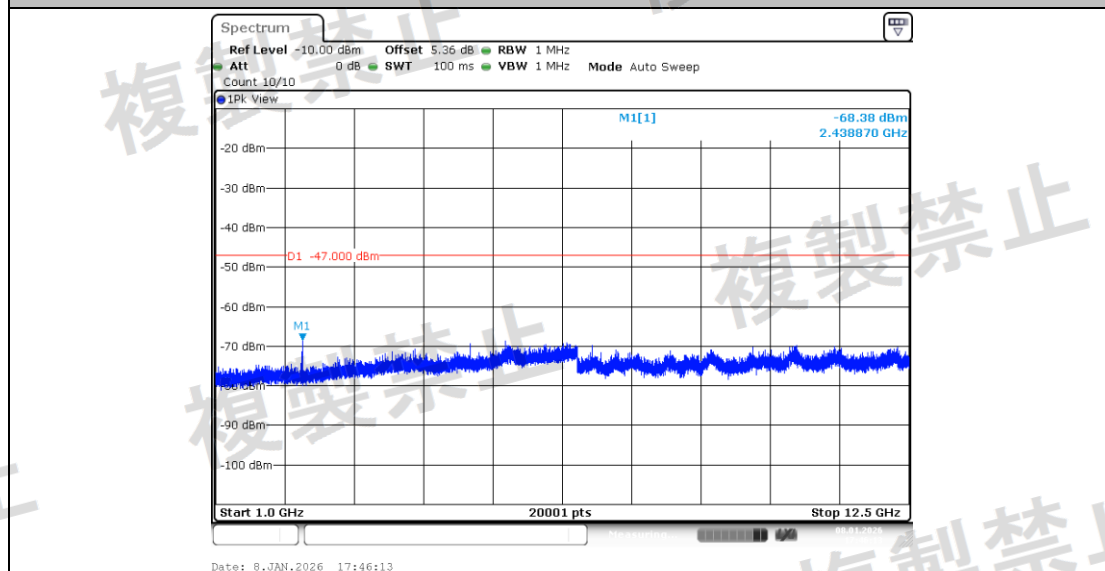
TestCondition	TestMode	Antenna	Channel (MHz)	Freq.Range [MHz]	Freq. [MHz]	Result [dBm]	Limit [dBm]	Result [μW]	Limit [μW]	Verdict
NTNV	11B	Ant1	2412	30~1000	847.06	-83.81	≤-54	0.00416	≤4	PASS
				1000~12500	2439.44	-67.67	≤-47	0.17100	≤20	PASS
			2442	30~1000	811.19	-83.81	≤-54	0.00416	≤4	PASS
				1000~12500	2438.87	-68.38	≤-47	0.14521	≤20	PASS
			2472	30~1000	212.03	-83.21	≤-54	0.00478	≤4	PASS
				1000~12500	6998.96	-68.95	≤-47	0.12735	≤20	PASS
	11G	Ant1	2412	30~1000	918.80	-83.33	≤-54	0.00465	≤4	PASS
				1000~12500	6865.57	-68.70	≤-47	0.13490	≤20	PASS
			2442	30~1000	802.95	-83.11	≤-54	0.00489	≤4	PASS
				1000~12500	6994.94	-68.67	≤-47	0.13583	≤20	PASS
			2472	30~1000	807.79	-83.87	≤-54	0.00410	≤4	PASS
				1000~12500	5857.64	-68.94	≤-47	0.12764	≤20	PASS
	11N20SI SO	Ant1	2412	30~1000	984.25	-82.19	≤-54	0.00604	≤4	PASS
				1000~12500	6848.90	-68.79	≤-47	0.13213	≤20	PASS
			2442	30~1000	928.50	-83.61	≤-54	0.00436	≤4	PASS
				1000~12500	6968.49	-68.97	≤-47	0.12677	≤20	PASS
			2472	30~1000	902.81	-83.44	≤-54	0.00453	≤4	PASS
				1000~12500	6944.34	-68.10	≤-47	0.15488	≤20	PASS

Test Graphs

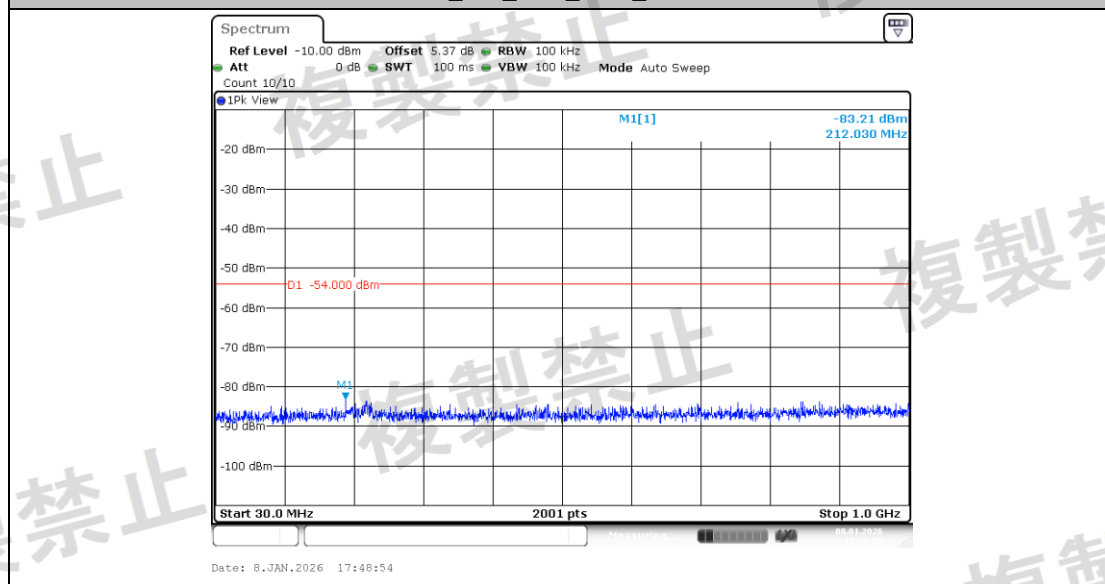


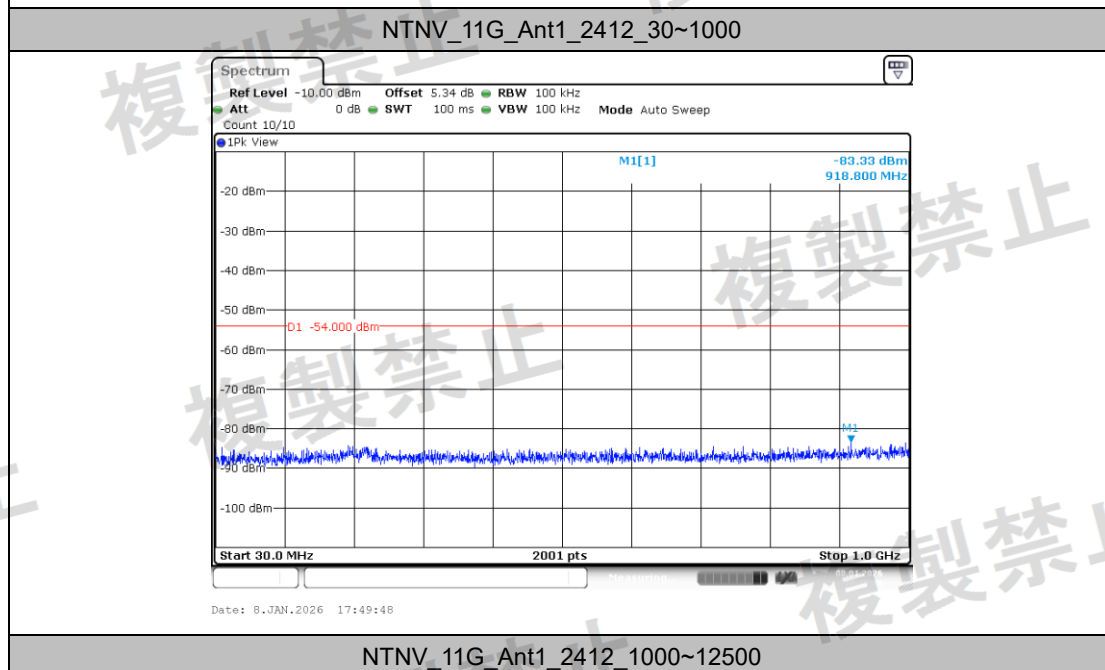
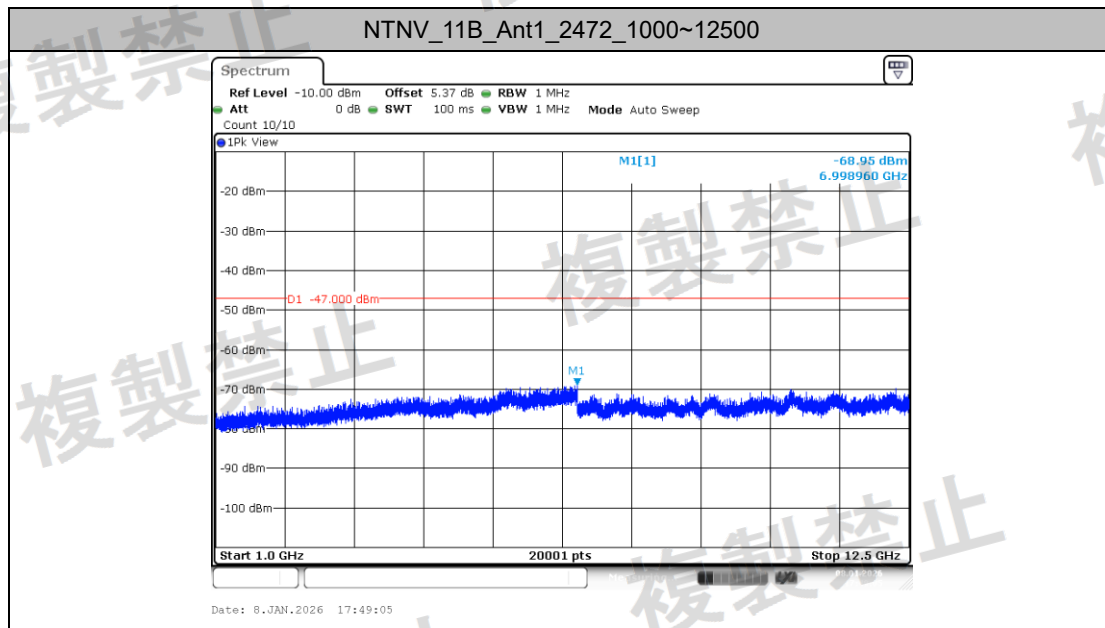


NTNV_11B_Ant1_2442_1000~12500

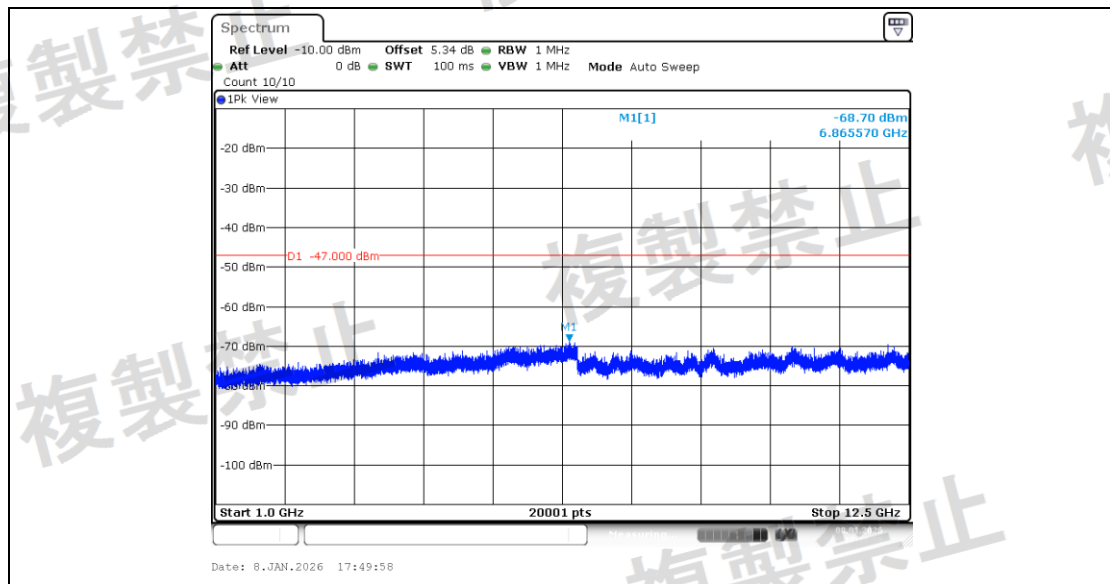


NTNV_11B_Ant1_2472_30~1000

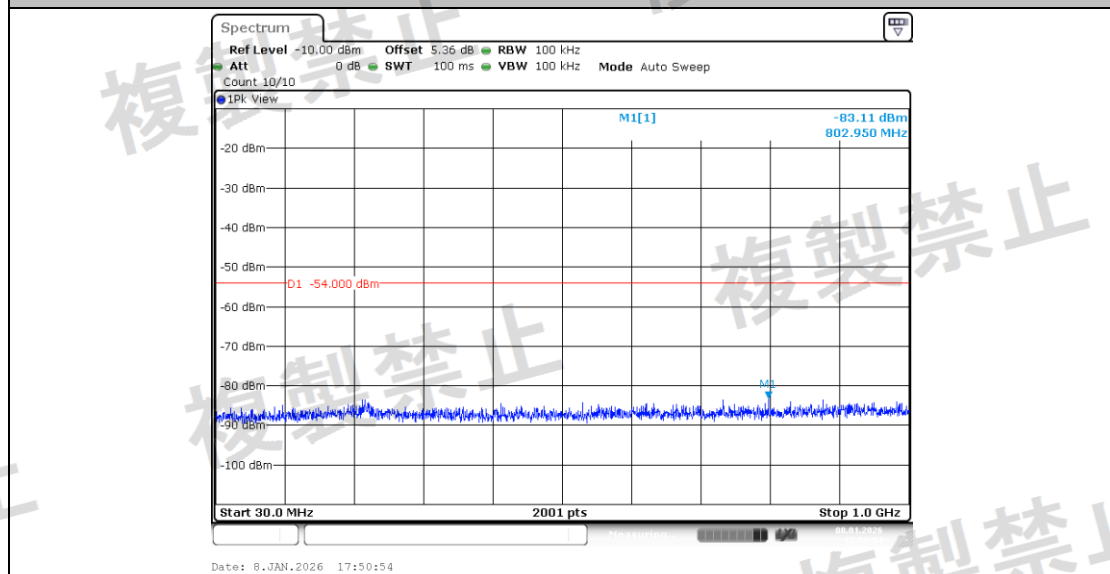




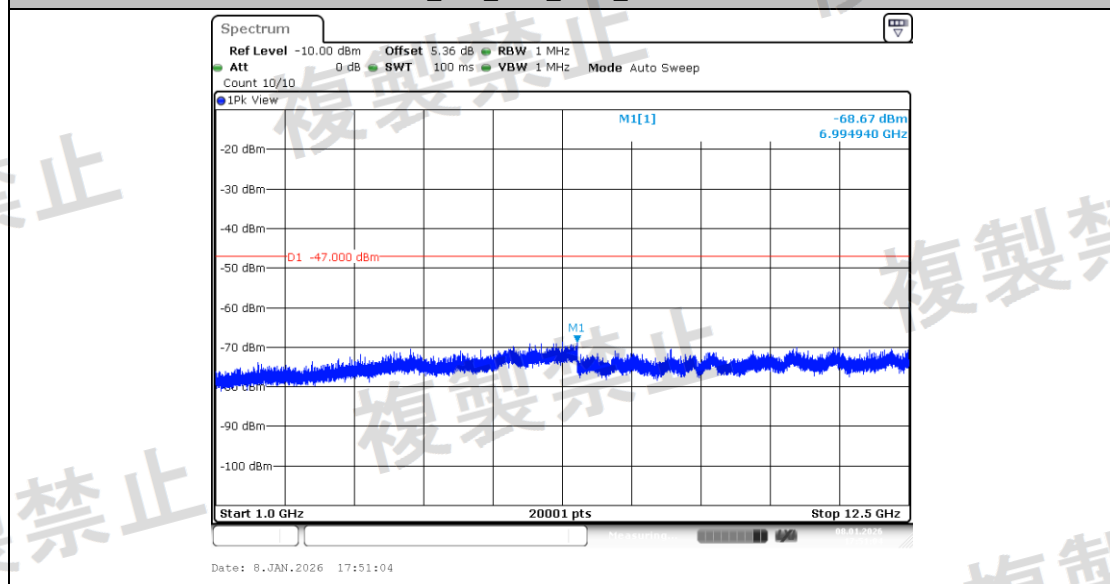
NTNV_11G_Ant1_2412_1000~12500

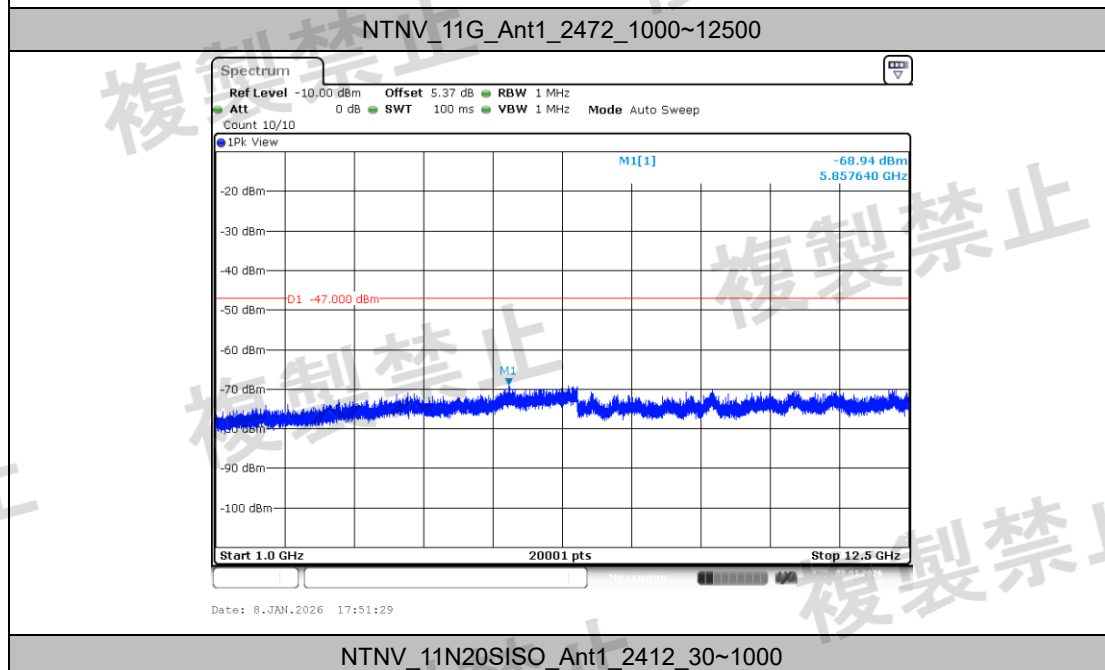
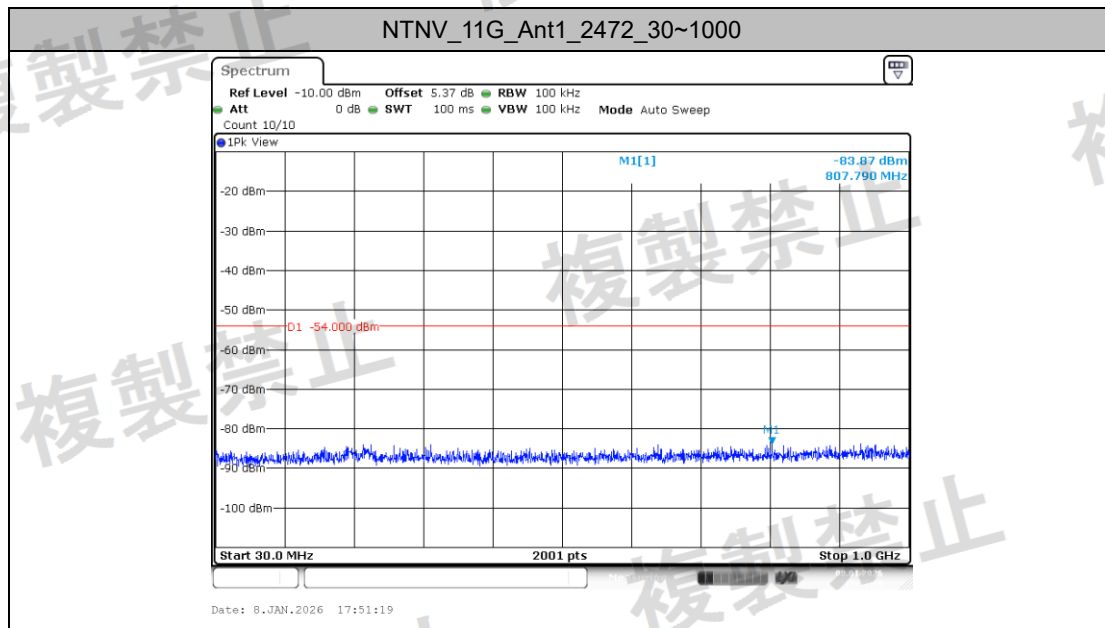


NTNV_11G_Ant1_2442_30~1000

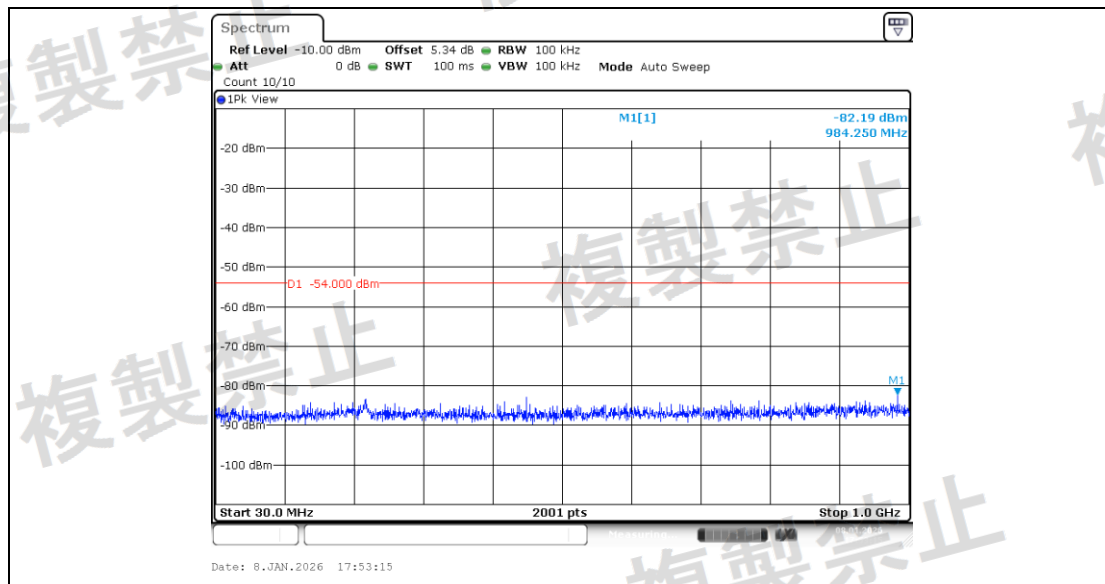


NTNV_11G_Ant1_2442_1000~12500

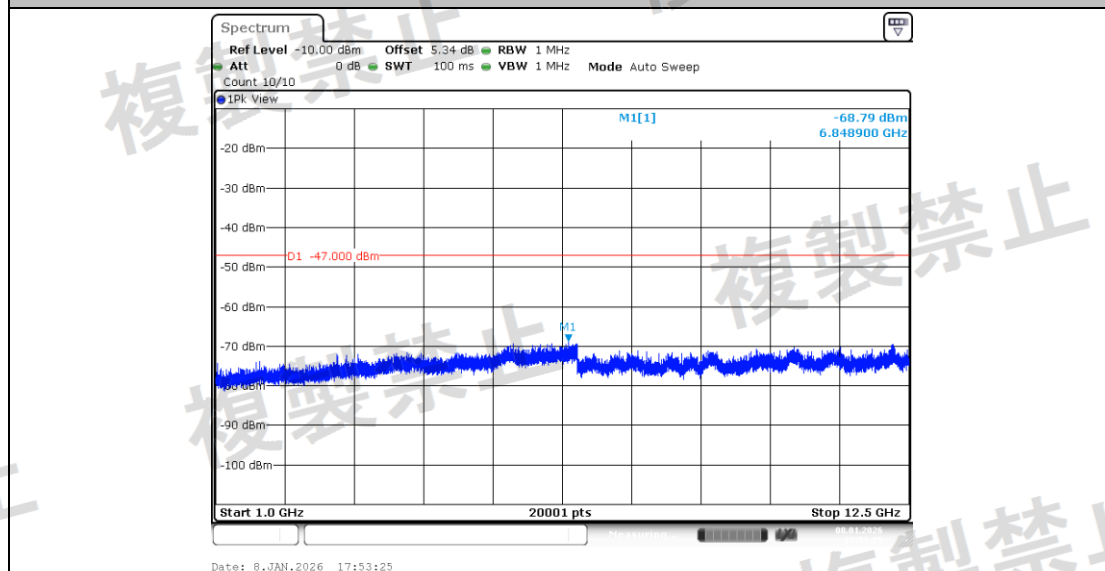




NTNV_11N20SISO_Ant1_2412_30~1000



NTNV_11N20SISO_Ant1_2412_1000~12500



NTNV_11N20SISO_Ant1_2442_30~1000

