

Appendix RF Test Data for BR-EDR

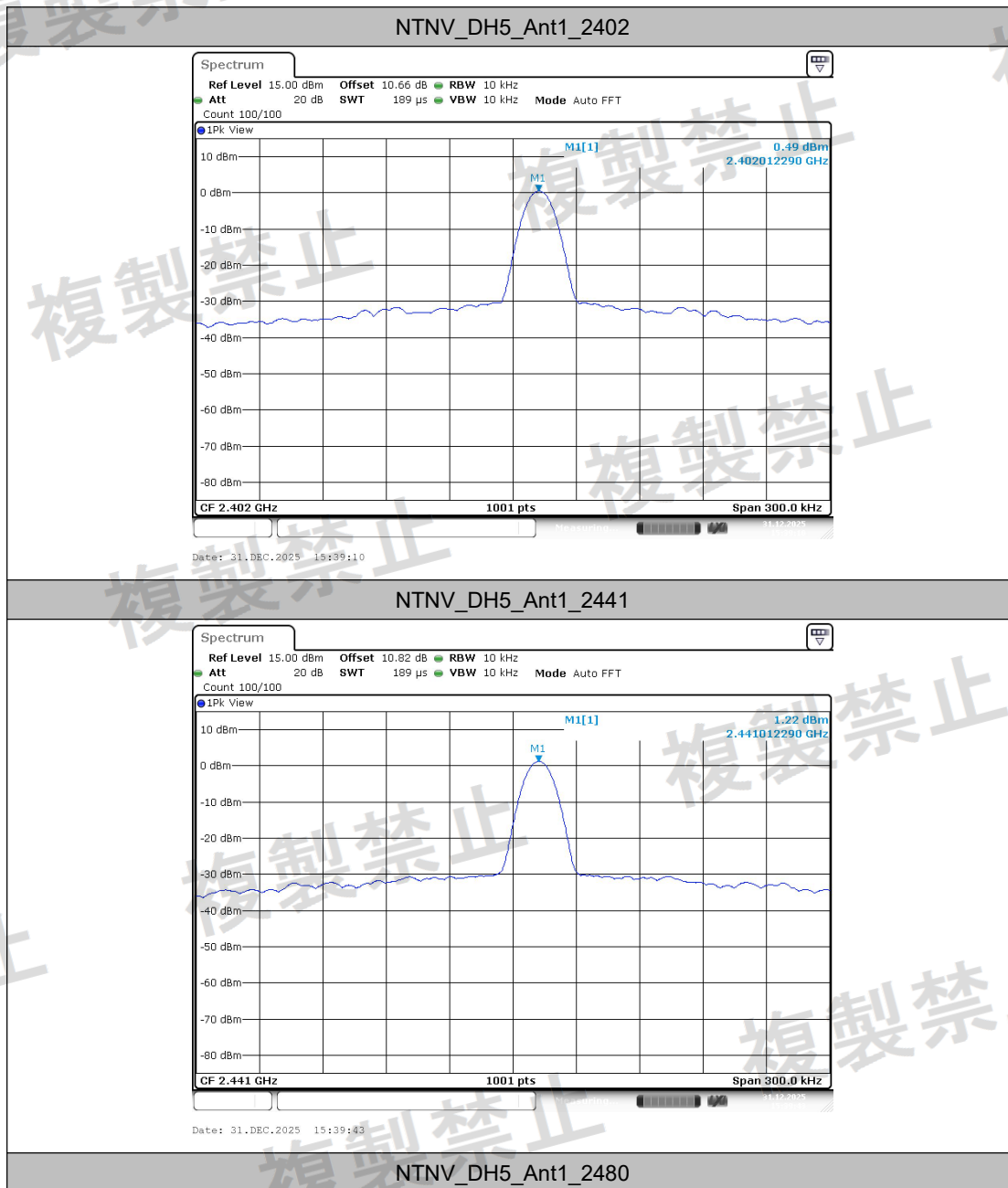
Company : Lubinsong
EUT : Lubinsong Karaoke Machine Integrated Type
Model Number : Lubinsong 20261905
Report No. : CTA25122600102
Reviewed By : Eric Wang

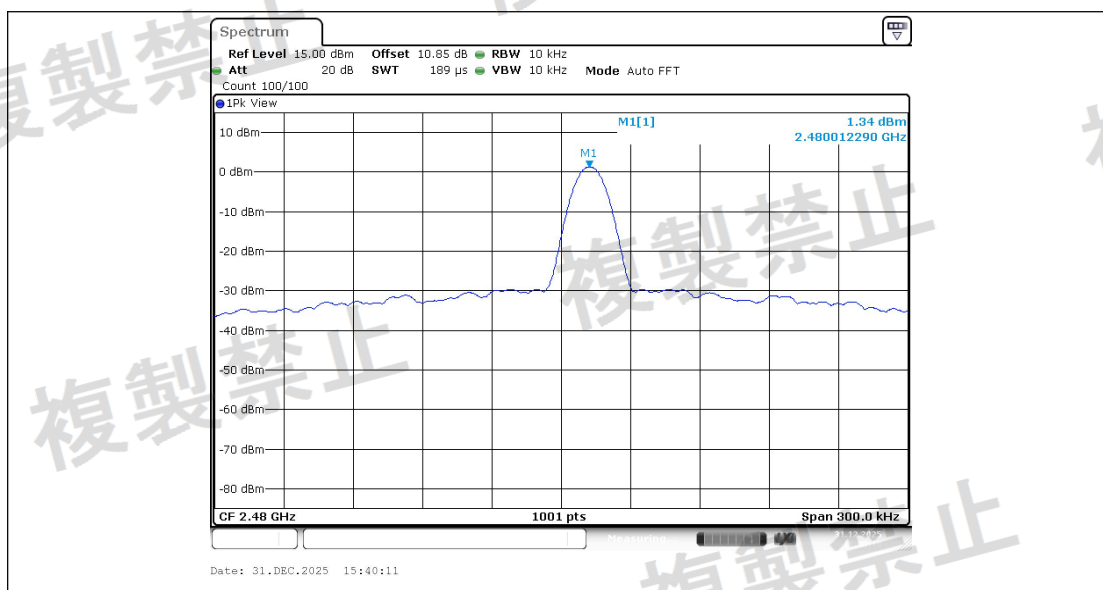
Appendix A: Frequency_Error

Test Result

Test Condition	Antenna	Freq(MHz)	Result[ppm]	Limit[ppm]	Verdict
NTNV	Ant1	2402	5.11657	±50	PASS
		2441	5.03482	±50	PASS
		2480	4.95565	±50	PASS

Test Graphs



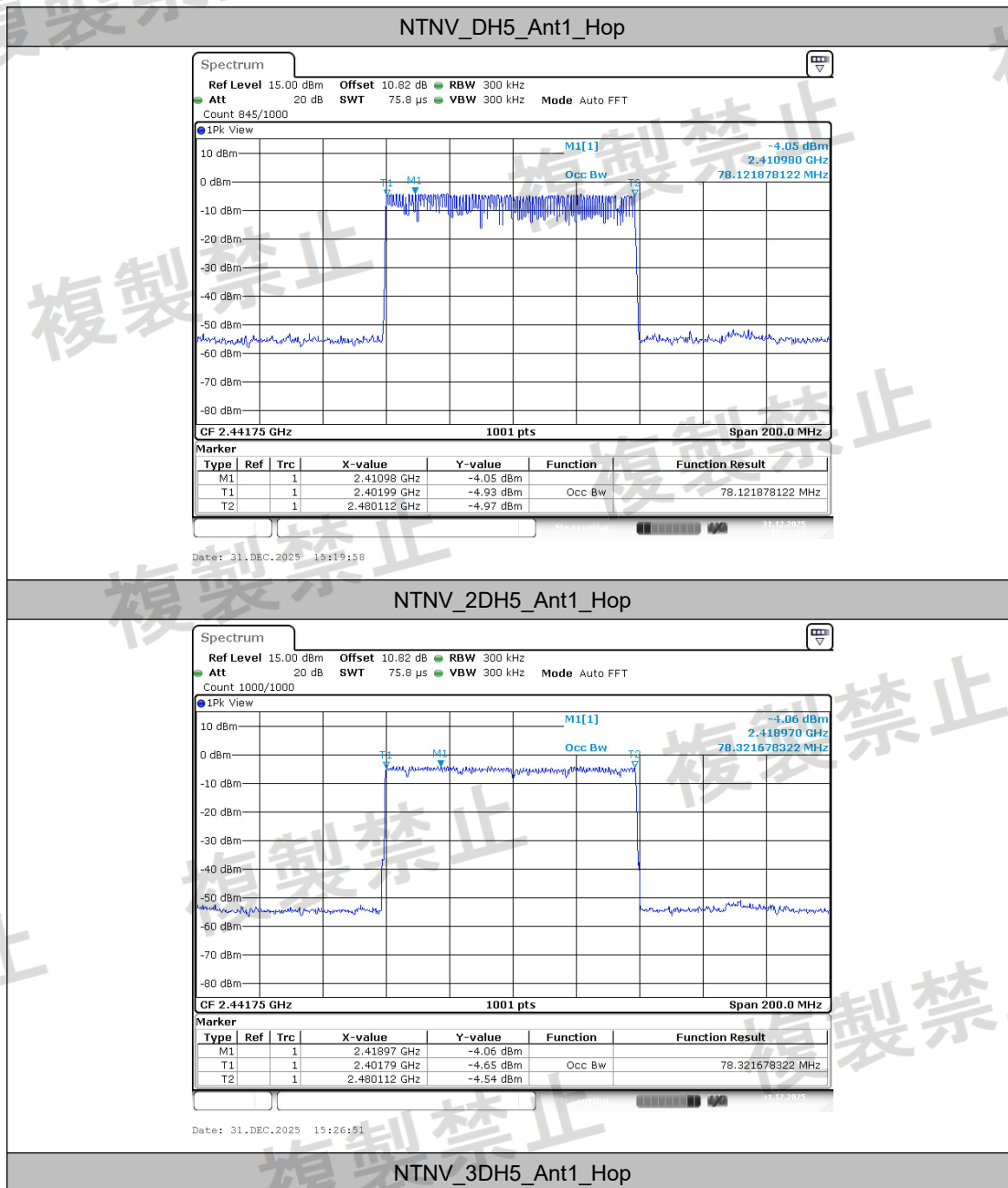


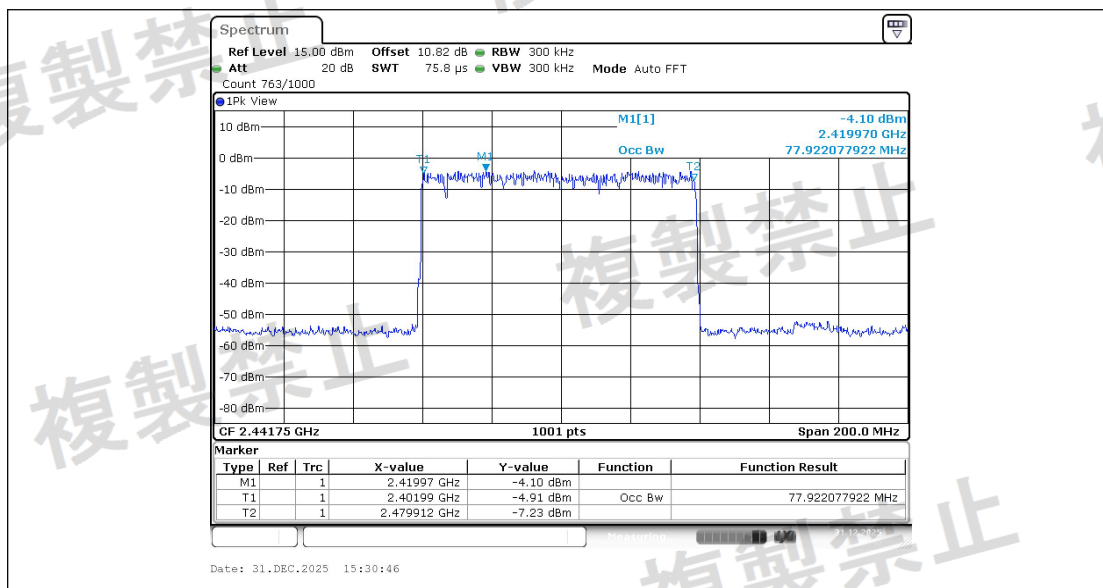
Appendix B: Occupied Bandwidth

Test Result

Test Condition	Test Mode	Antenna	Freq(MHz)	Result [MHz]	Limit [MHz]	Verdict
NTNV	DH5	Ant1	Hop	78.122	≤83.5	PASS
	2DH5	Ant1	Hop	78.322	≤83.5	PASS
	3DH5	Ant1	Hop	77.922	≤83.5	PASS

Test Graphs



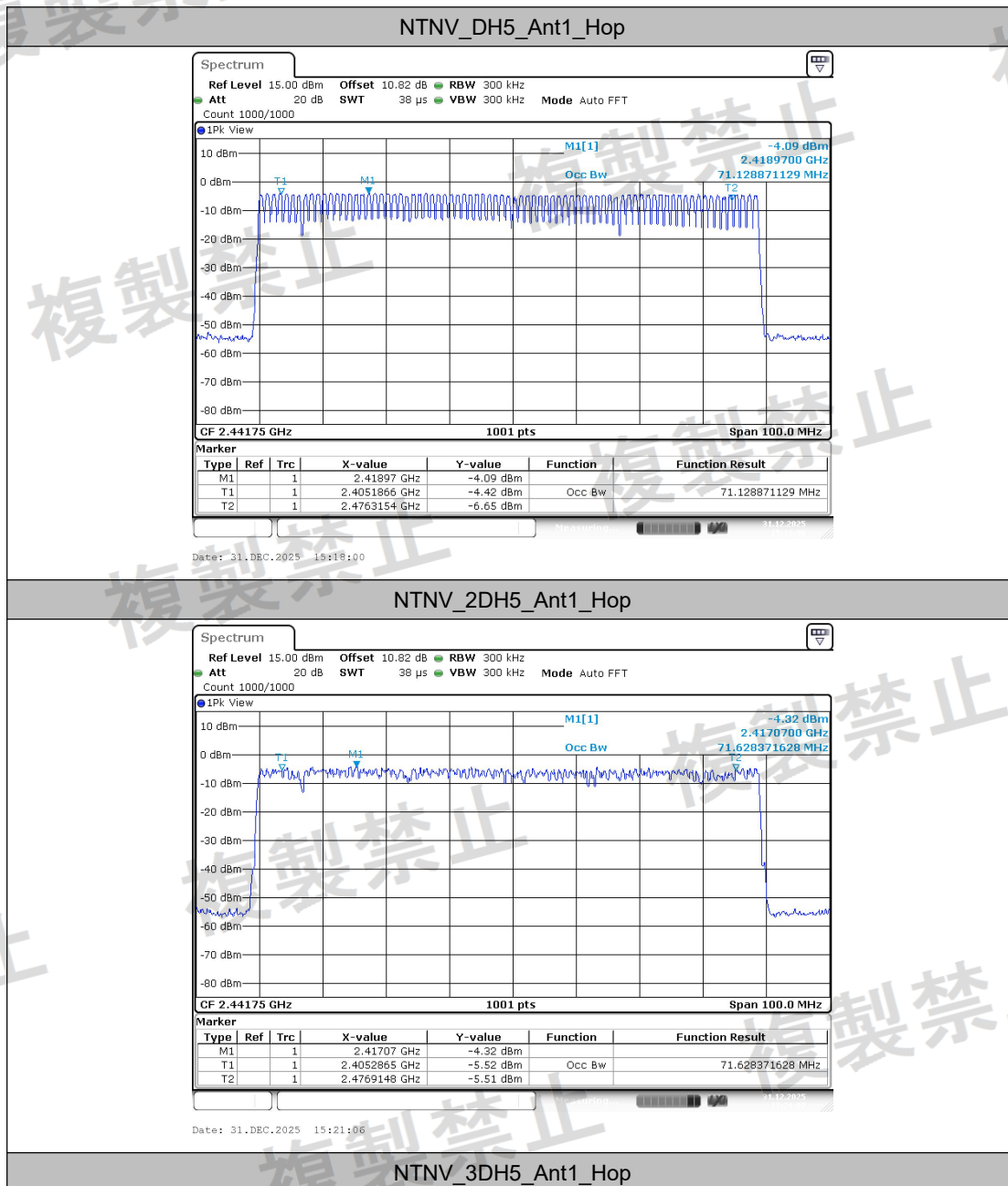


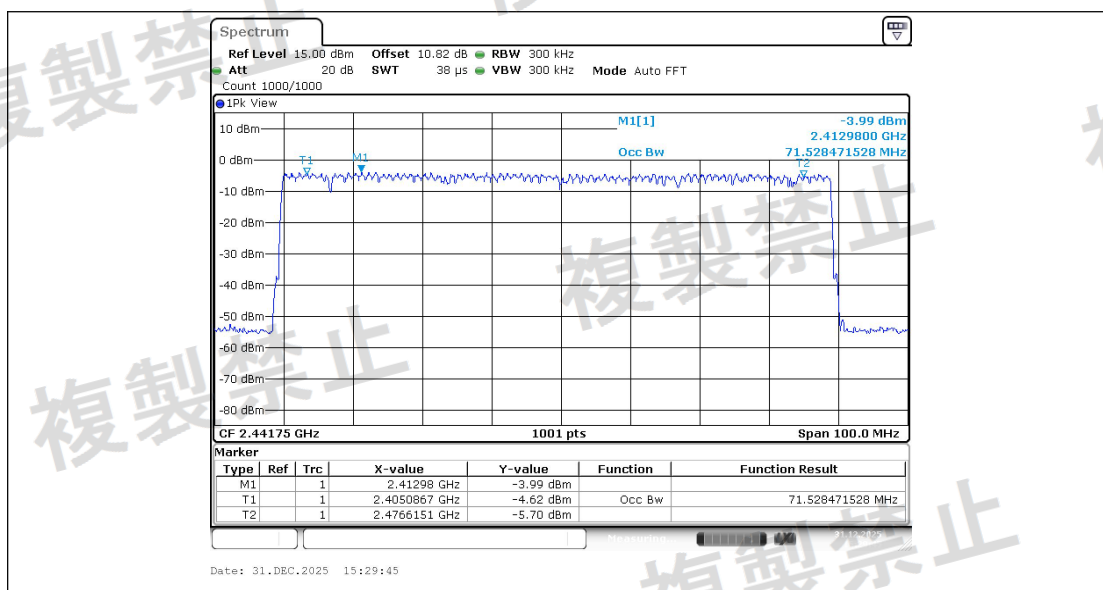
Appendix C: Spread Bandwidth

Test Result

Test Condition	Test Mode	Antenna	Freq(MHz)	Result [MHz]	Limit [MHz]	Spread Factor	Limit	Verdict
NTNV	DH5	Ant1	Hop	71.129	≥0.5	71.129	>5	PASS
	2DH5	Ant1	Hop	71.628	≥0.5	71.628	>5	PASS
	3DH5	Ant1	Hop	71.528	≥0.5	71.528	>5	PASS

Test Graphs





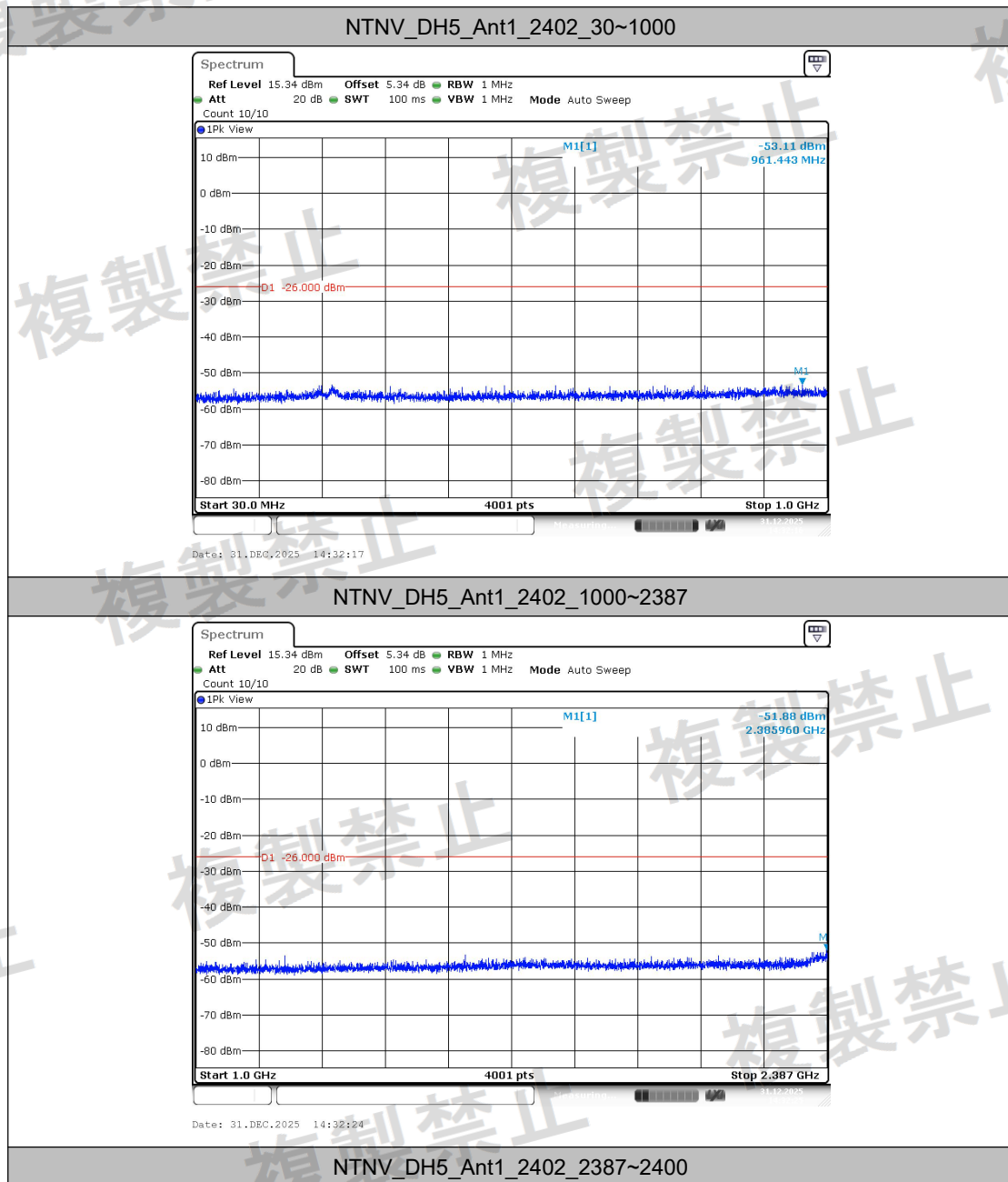
Appendix D: Spurious Emission of TX

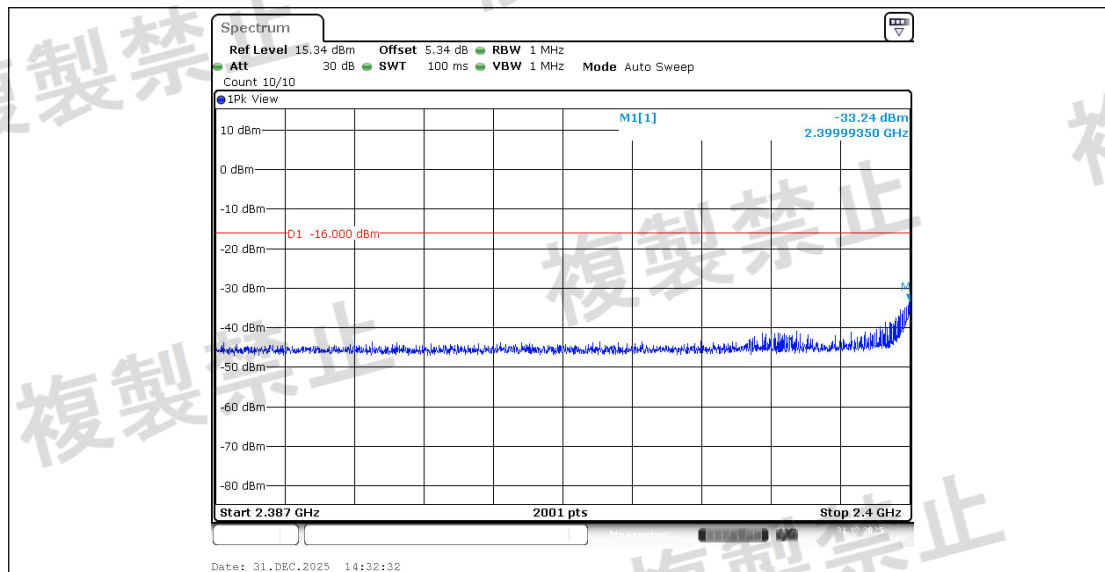
Test Result

Test Condition	Test Mode	Antenna	Freq(M Hz)	Freq.Range [MHz]	Freq. [MHz]	Result [dBm]	Limit [dBm]	Result [μW]	Limit [μW]	Verdict
NTNV	DH5	Ant1	2402	30~1000	961.44	-53.11	≤-26	0.00489	≤2.5	PASS
				1000~2387	2385.96	-51.88	≤-26	0.00649	≤2.5	PASS
				2387~2400	2399.99	-33.24	≤-16	0.47424	≤25	PASS
				2483.5~2496.5	2483.66	-42.82	≤-16	0.05224	≤25	PASS
				2496.5~13000	4803.59	-40.80	≤-26	0.08318	≤2.5	PASS
			2441	30~1000	238.79	-52.64	≤-26	0.00545	≤2.5	PASS
				1000~2387	2339.84	-53.28	≤-26	0.00470	≤2.5	PASS
				2387~2400	2396.53	-43.20	≤-16	0.04786	≤25	PASS
				2483.5~2496.5	2492.87	-43.16	≤-16	0.04831	≤25	PASS
				2496.5~13000	4881.84	-40.28	≤-26	0.09376	≤2.5	PASS
			2480	30~1000	907.37	-45.49	≤-26	0.02825	≤2.5	PASS
				1000~2387	1793.36	-53.21	≤-26	0.00478	≤2.5	PASS
				2387~2400	2392.80	-43.34	≤-16	0.04634	≤25	PASS
				2483.5~2496.5	2484.62	-41.10	≤-16	0.07762	≤25	PASS
				2496.5~13000	4959.57	-40.32	≤-26	0.09290	≤2.5	PASS
	2DH5	Ant1	2402	30~1000	420.67	-52.62	≤-26	0.00547	≤2.5	PASS
				1000~2387	2379.72	-52.13	≤-26	0.00612	≤2.5	PASS
				2387~2400	2399.99	-30.36	≤-16	0.92045	≤25	PASS
				2483.5~2496.5	2489.27	-42.92	≤-16	0.05105	≤25	PASS
				2496.5~13000	4803.59	-43.07	≤-26	0.04932	≤2.5	PASS
			2441	30~1000	946.41	-52.48	≤-26	0.00565	≤2.5	PASS
				1000~2387	2293.03	-53.49	≤-26	0.00448	≤2.5	PASS
				2387~2400	2398.55	-43.66	≤-16	0.04305	≤25	PASS
				2483.5~2496.5	2486.75	-42.50	≤-16	0.05623	≤25	PASS
				2496.5~13000	4881.84	-44.08	≤-26	0.03908	≤2.5	PASS
			2480	30~1000	240.98	-53.21	≤-26	0.00478	≤2.5	PASS
				1000~2387	1764.58	-53.18	≤-26	0.00481	≤2.5	PASS
				2387~2400	2396.96	-42.99	≤-16	0.05023	≤25	PASS
				2483.5~2496.5	2484.68	-41.39	≤-16	0.07261	≤25	PASS
				2496.5~13000	4960.10	-43.11	≤-26	0.04887	≤2.5	PASS
	3DH5	Ant1	2402	30~1000	888.45	-53.19	≤-26	0.00480	≤2.5	PASS
				1000~2387	2379.72	-51.78	≤-26	0.00664	≤2.5	PASS
				2387~2400	2400.00	-30.10	≤-16	0.97724	≤25	PASS
				2483.5~2496.5	2487.56	-42.76	≤-16	0.05297	≤25	PASS
				2496.5~13000	4804.12	-43.76	≤-26	0.04207	≤2.5	PASS
			2441	30~1000	238.07	-52.97	≤-26	0.00505	≤2.5	PASS
				1000~2387	2018.40	-53.11	≤-26	0.00489	≤2.5	PASS

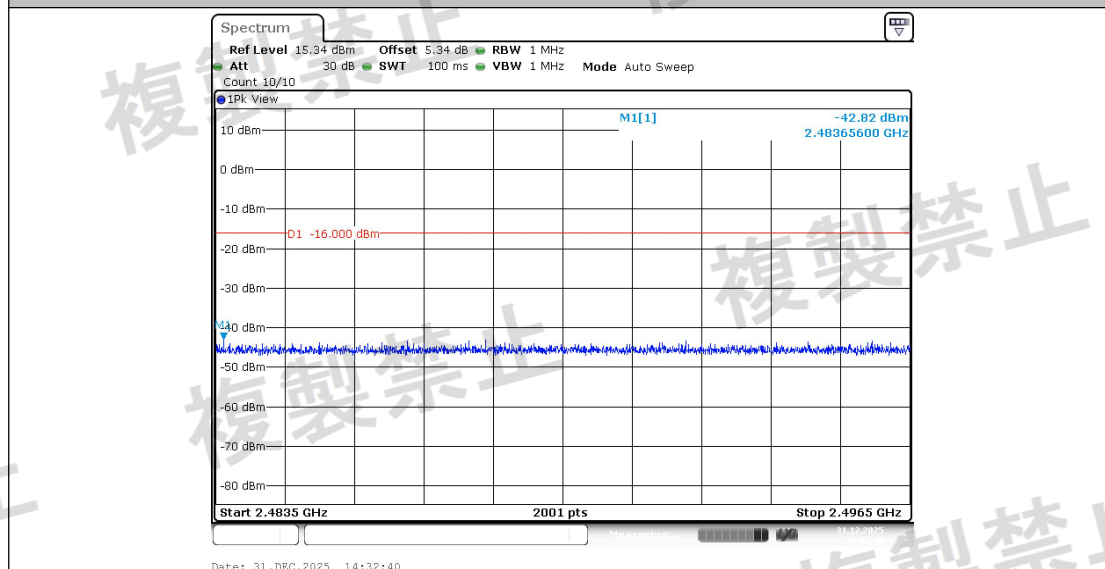
			2387~2400	2394.08	-42.93	≤-16	0.05093	≤25	PASS
			2483.5~2496.5	2493.07	-43.07	≤-16	0.04932	≤25	PASS
			2496.5~13000	4881.84	-43.60	≤-26	0.04365	≤2.5	PASS
		2480	30~1000	910.28	-50.61	≤-26	0.00869	≤2.5	PASS
			1000~2387	2201.49	-53.43	≤-26	0.00454	≤2.5	PASS
			2387~2400	2390.43	-43.18	≤-16	0.04808	≤25	PASS
			2483.5~2496.5	2484.29	-42.55	≤-16	0.05559	≤25	PASS
			2496.5~13000	4960.10	-44.08	≤-26	0.03908	≤2.5	PASS

Test Graphs

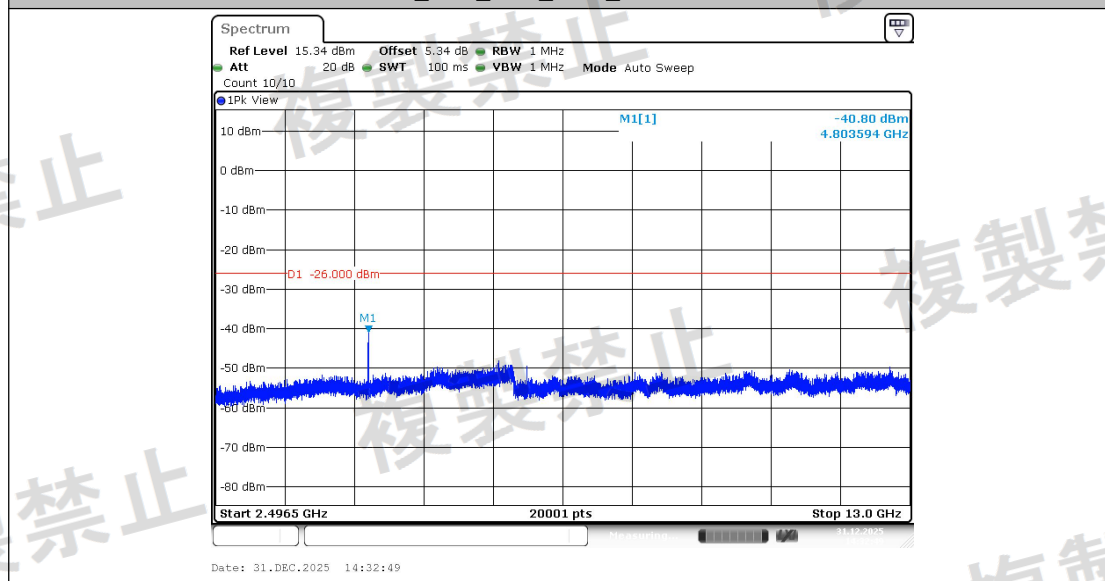


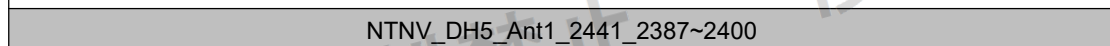
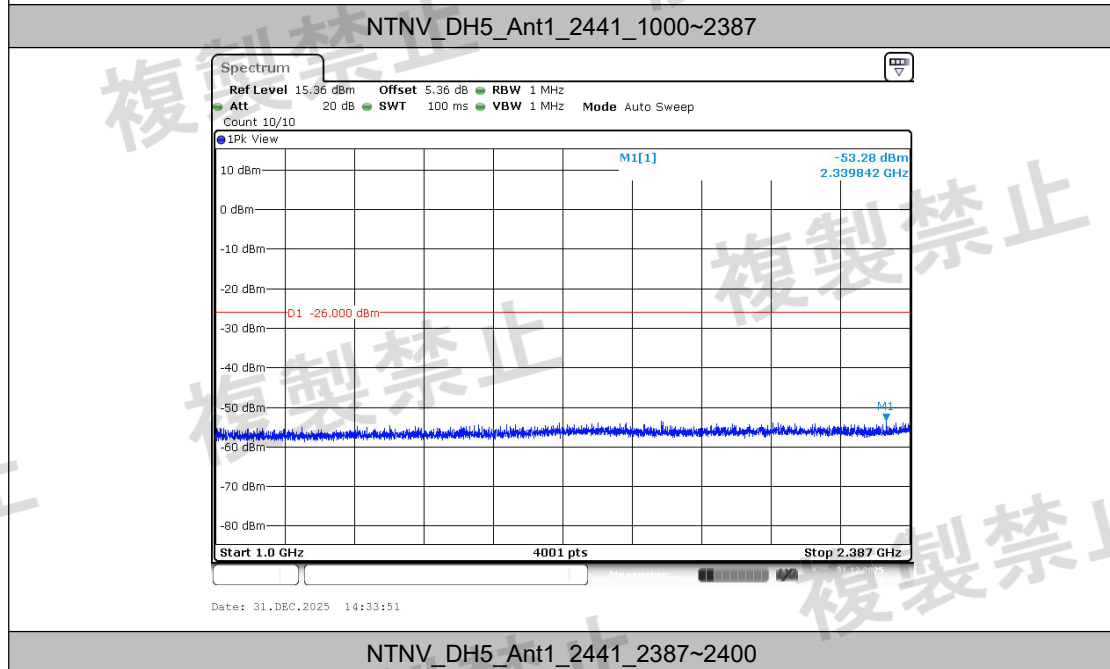
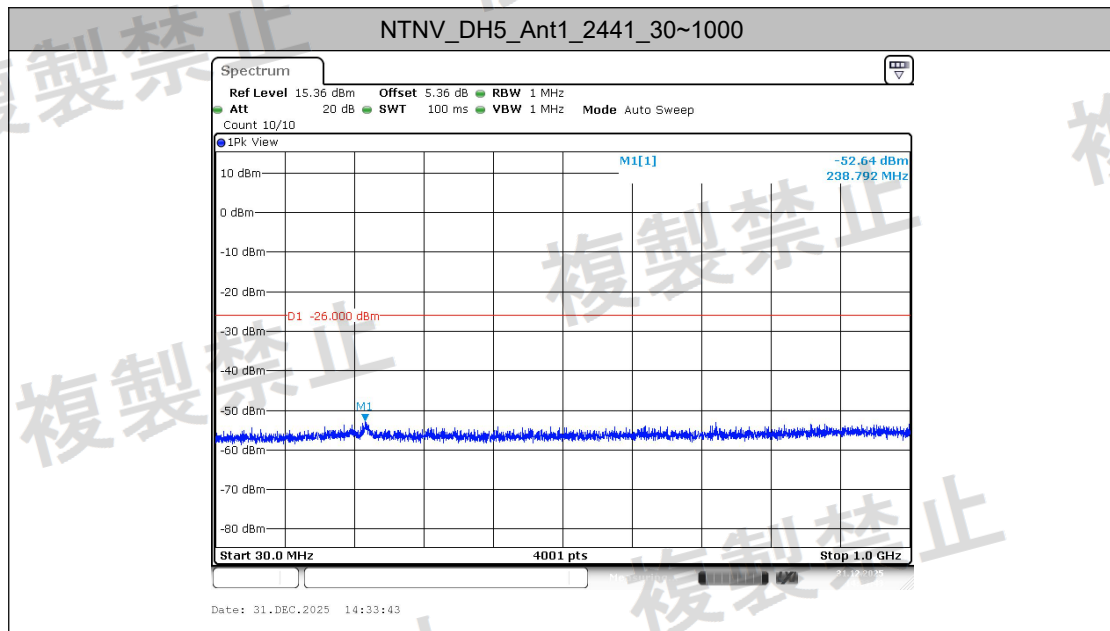


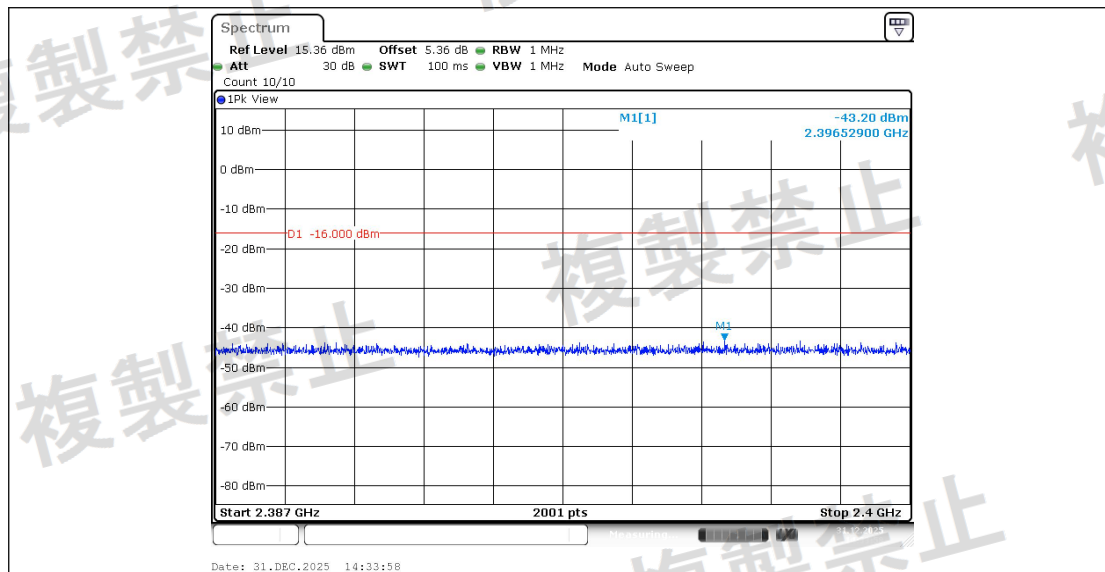
NTNV_DH5_Ant1_2402_2483.5~2496.5



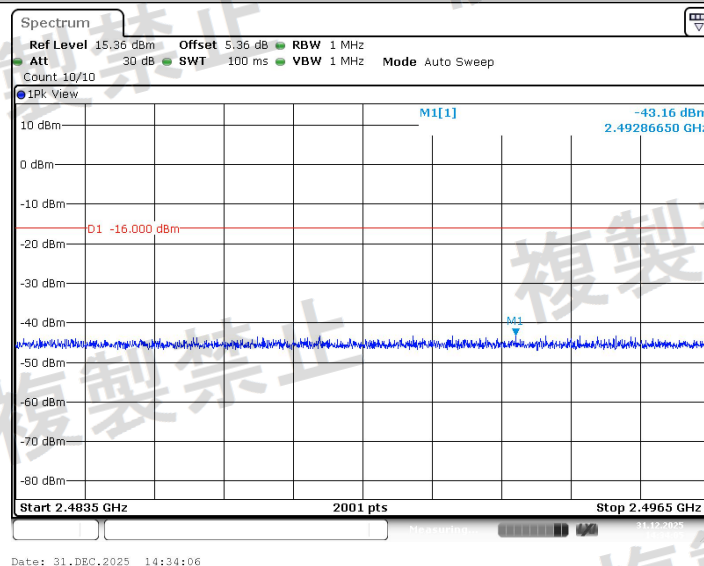
NTNV_DH5_Ant1_2402_2496.5~13000



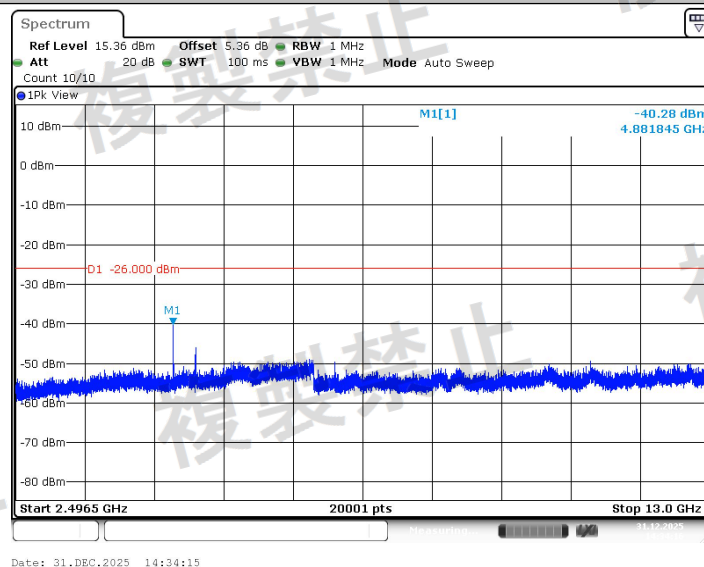


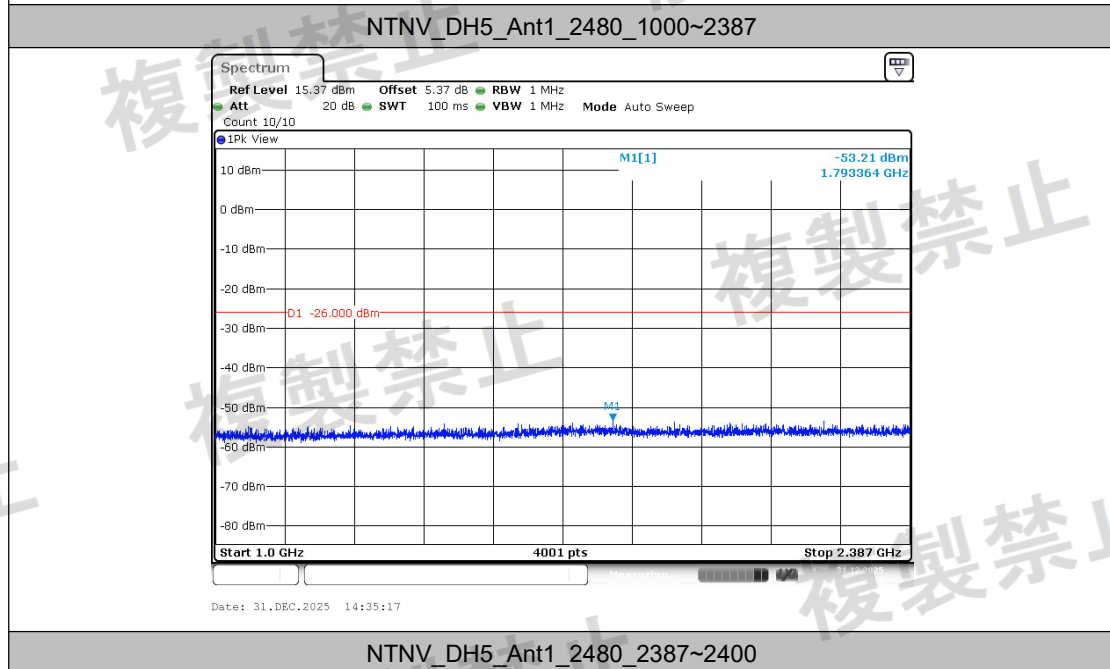
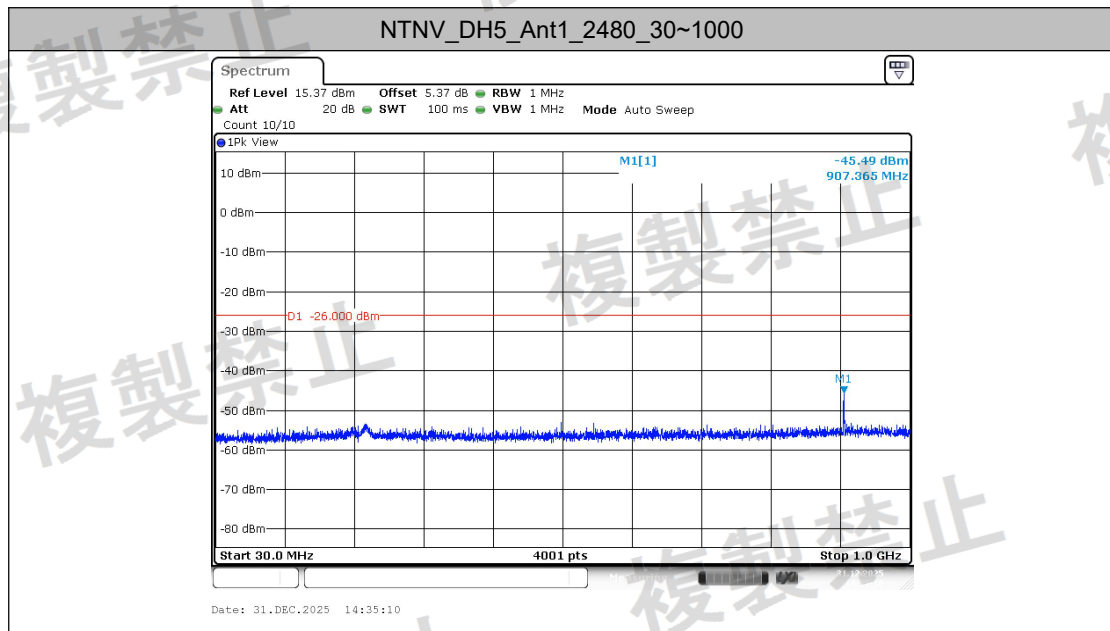


NTNV_DH5_Ant1_2441_2483.5~2496.5

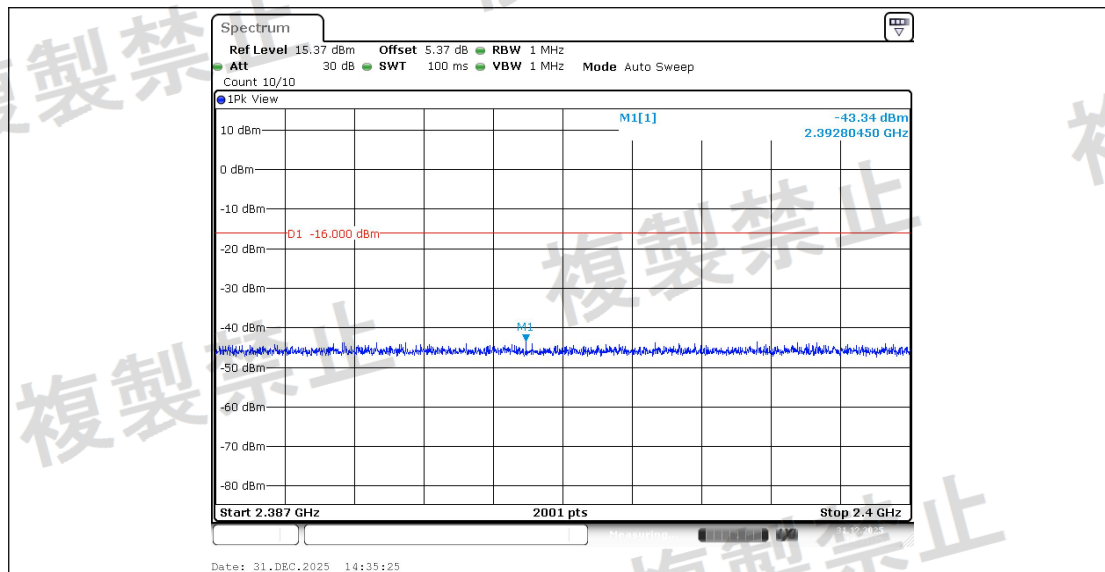


NTNV_DH5_Ant1_2441_2496.5~13000

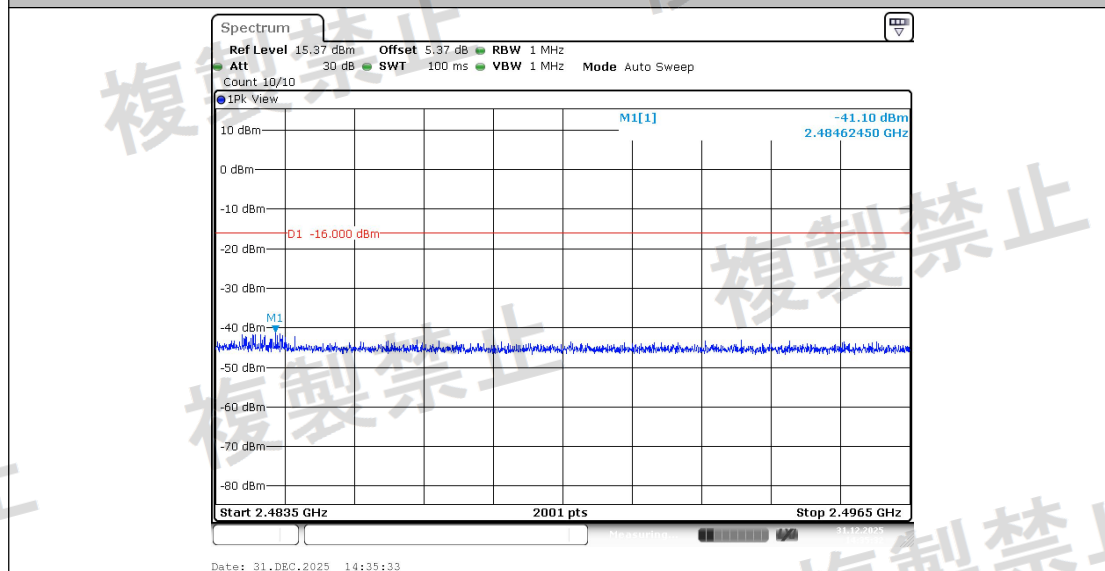




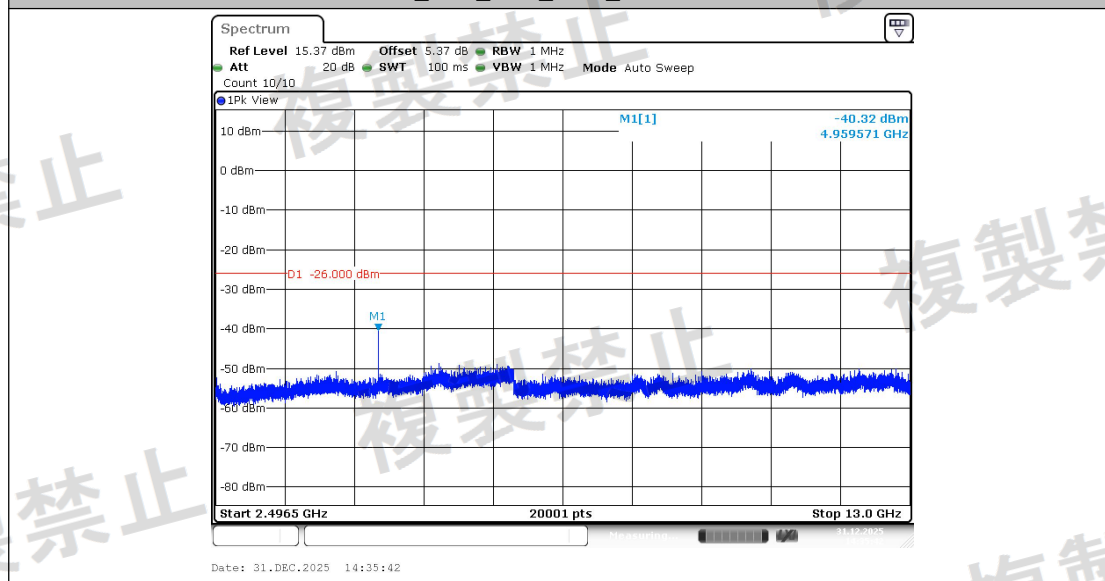
NTNV_DH5_Ant1_2480_2387~2400

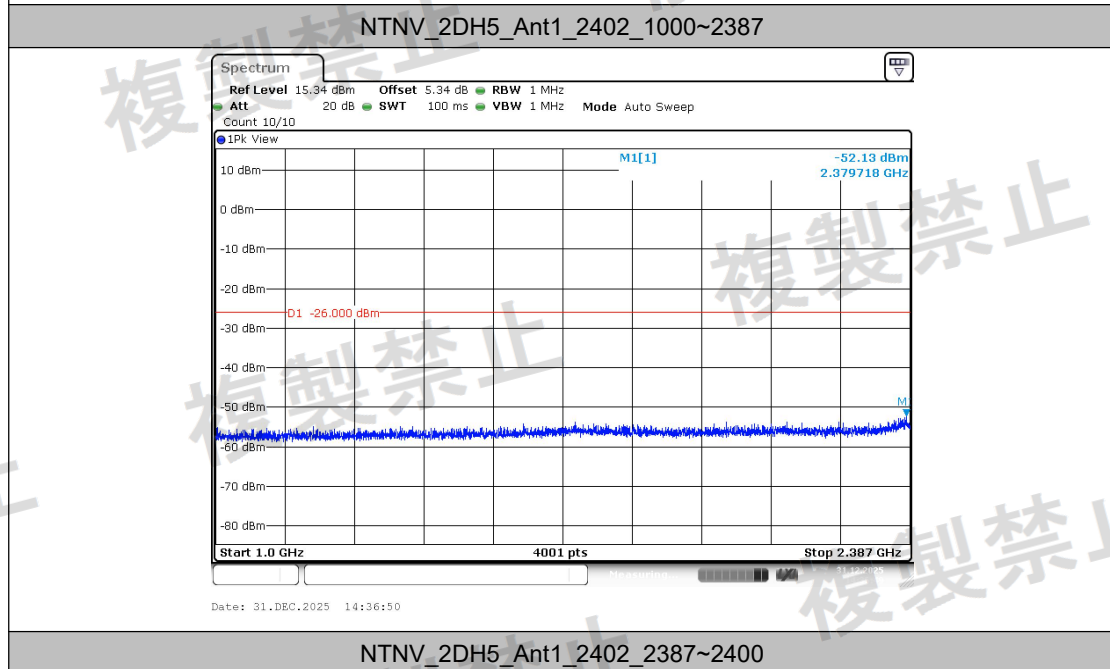
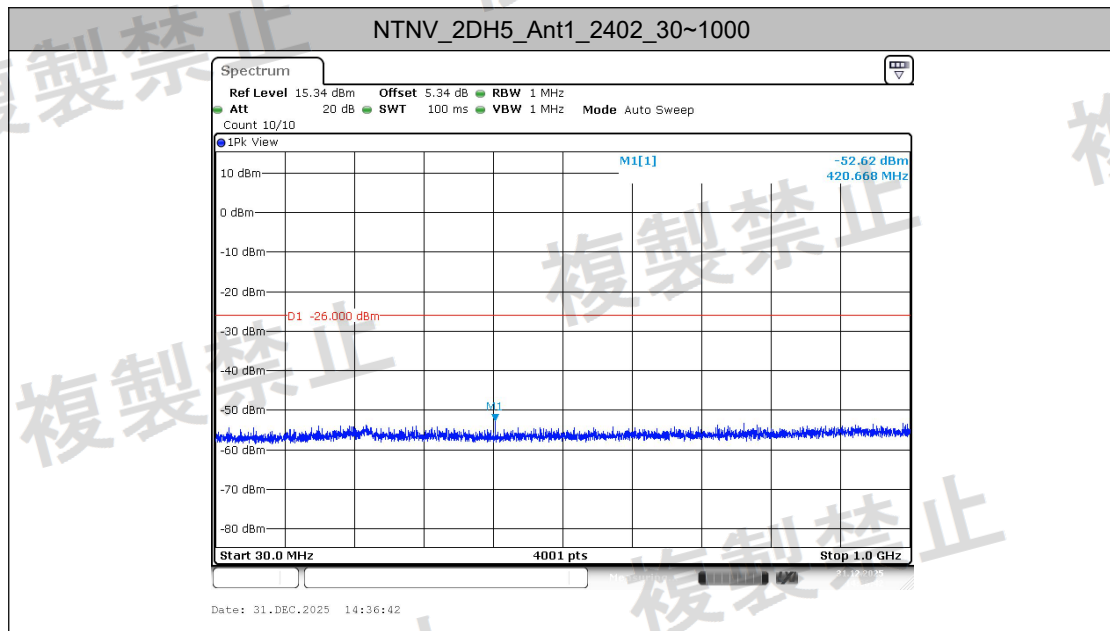


NTNV_DH5_Ant1_2480_2483.5~2496.5

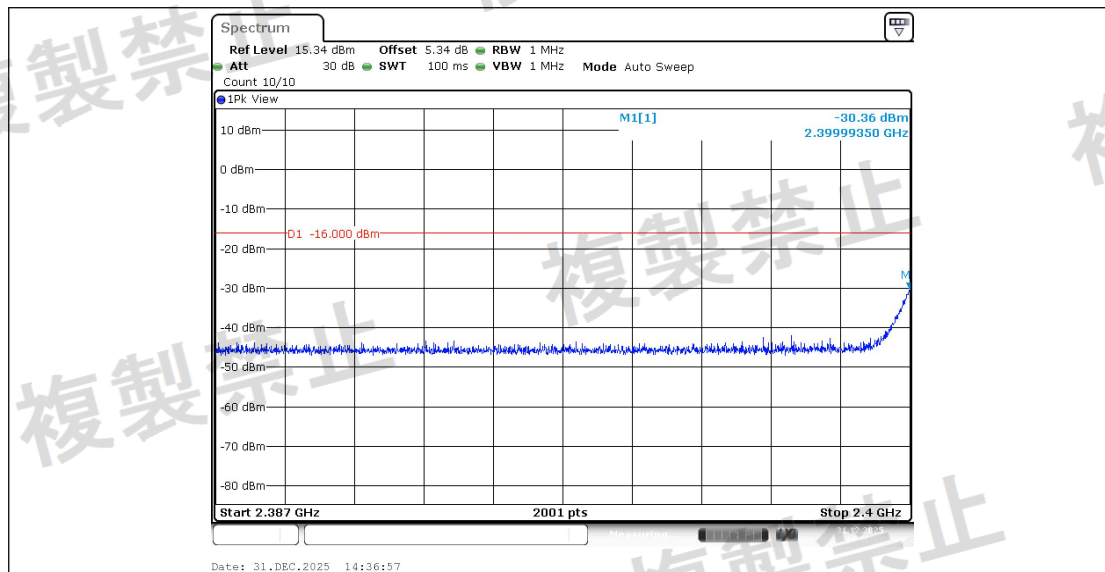


NTNV_DH5_Ant1_2480_2496.5~13000

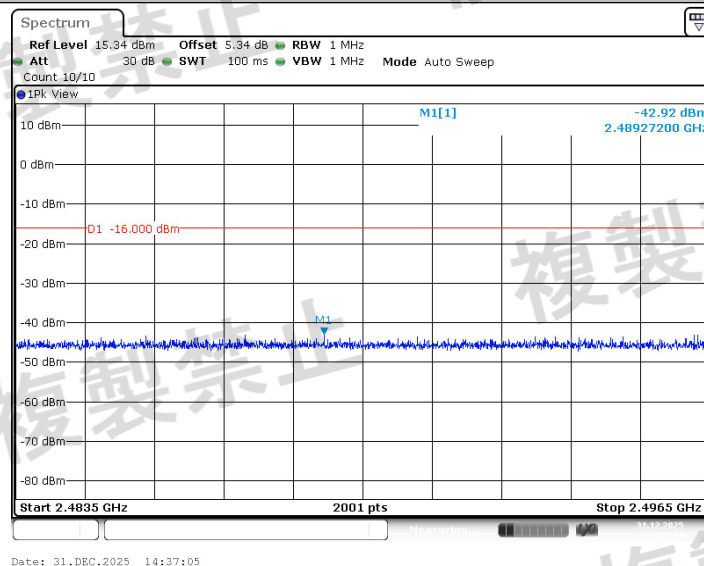




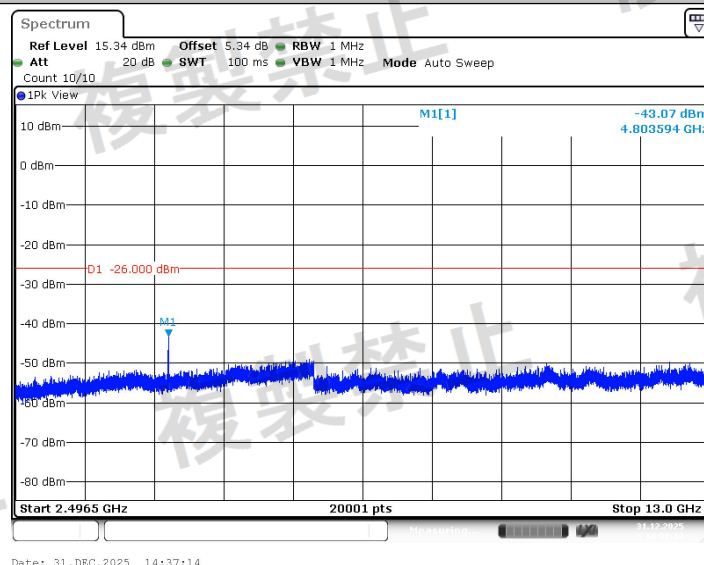
NTNV_2DH5_Ant1_2402_2387~2400

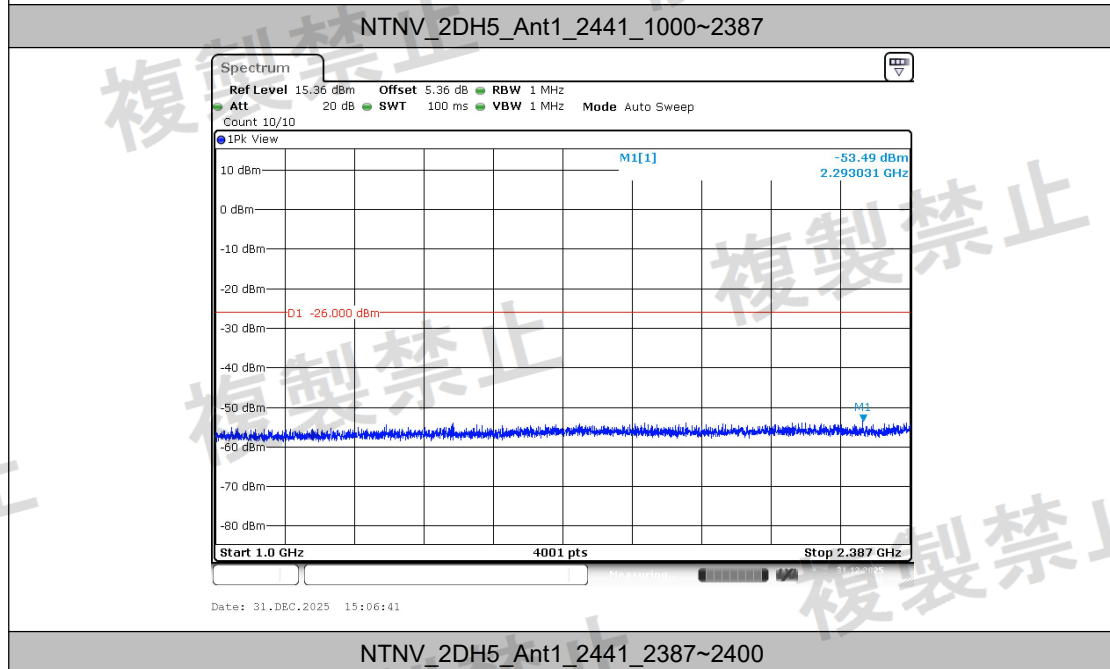
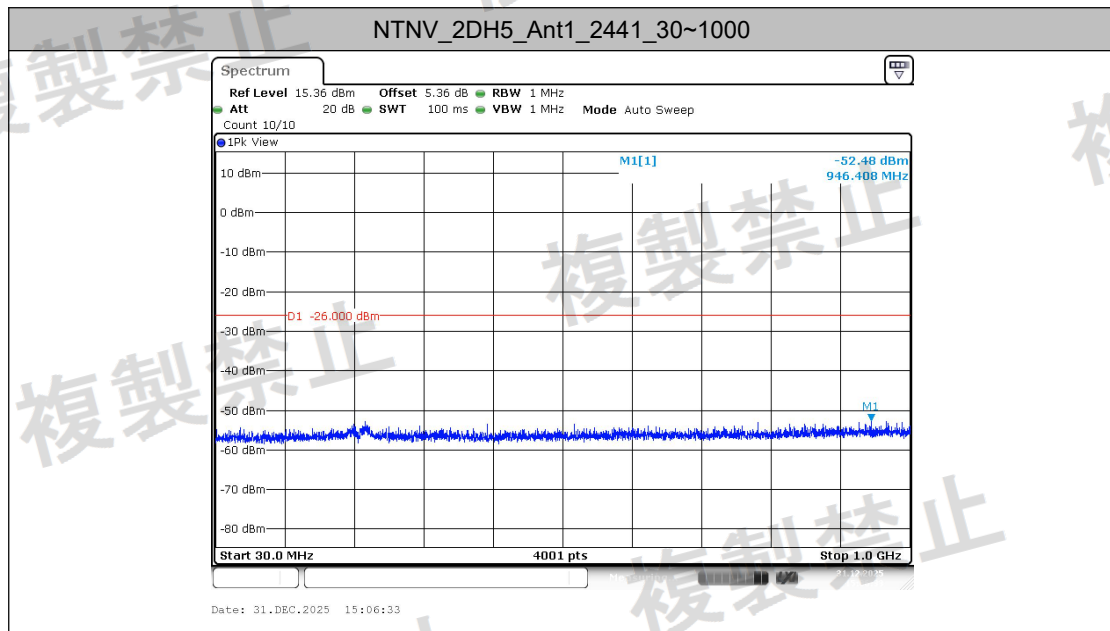


NTNV_2DH5_Ant1_2402_2483.5~2496.5

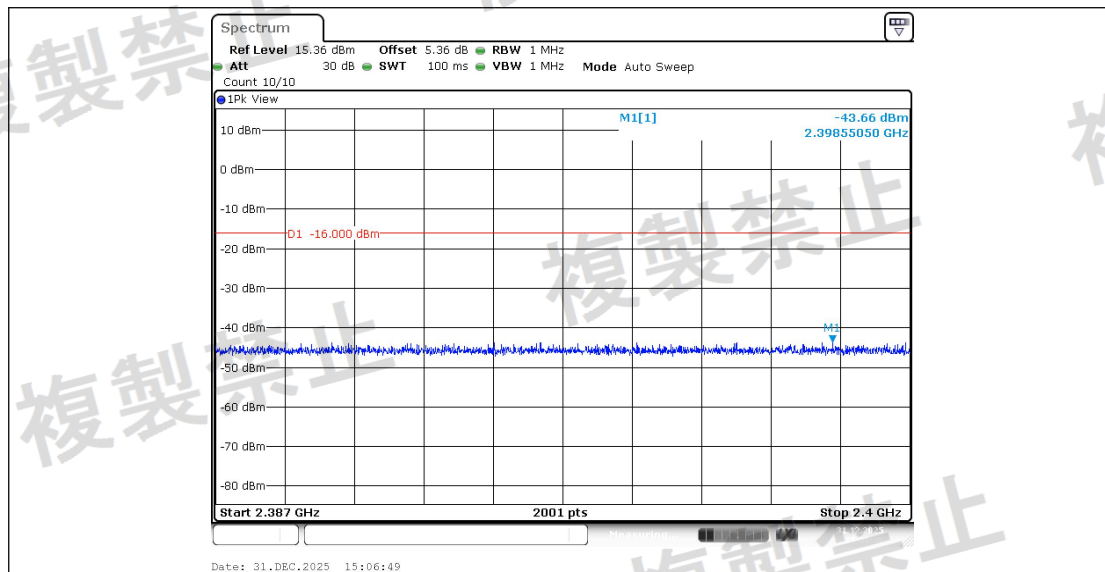


NTNV_2DH5_Ant1_2402_2496.5~13000

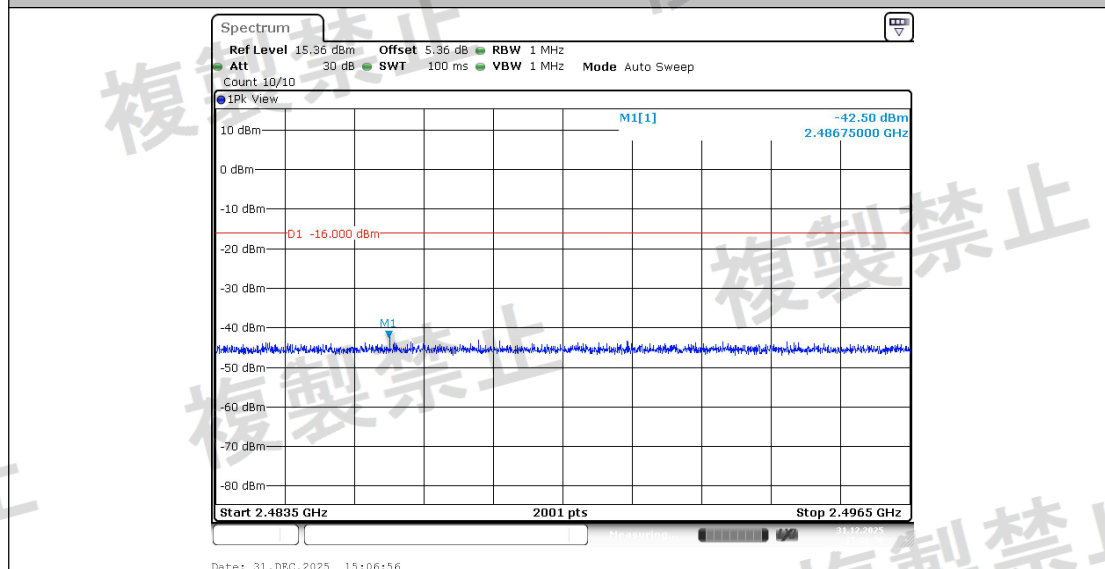




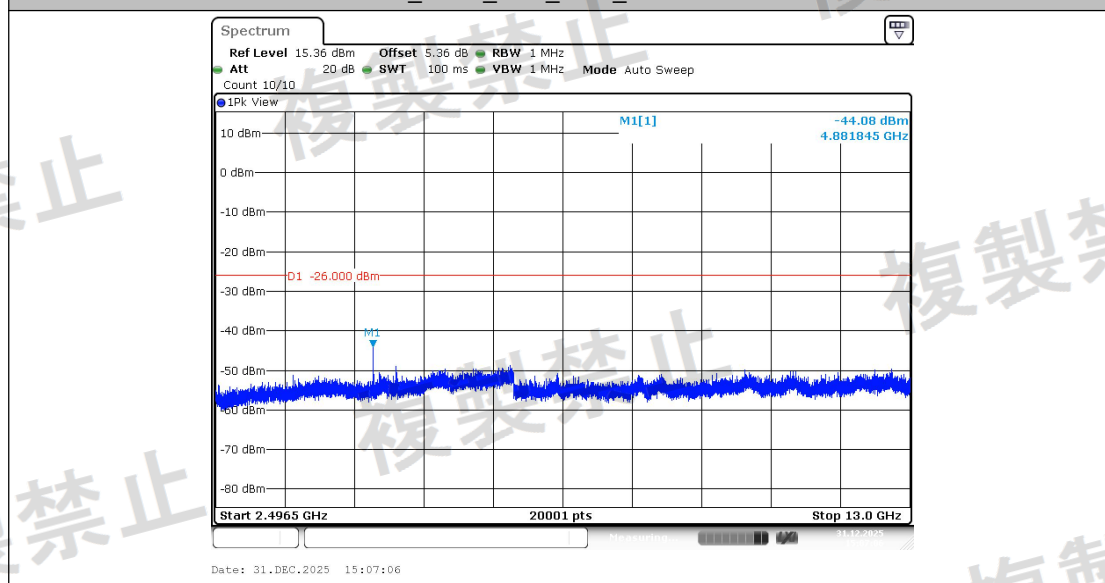
NTNV_2DH5_Ant1_2441_2387~2400

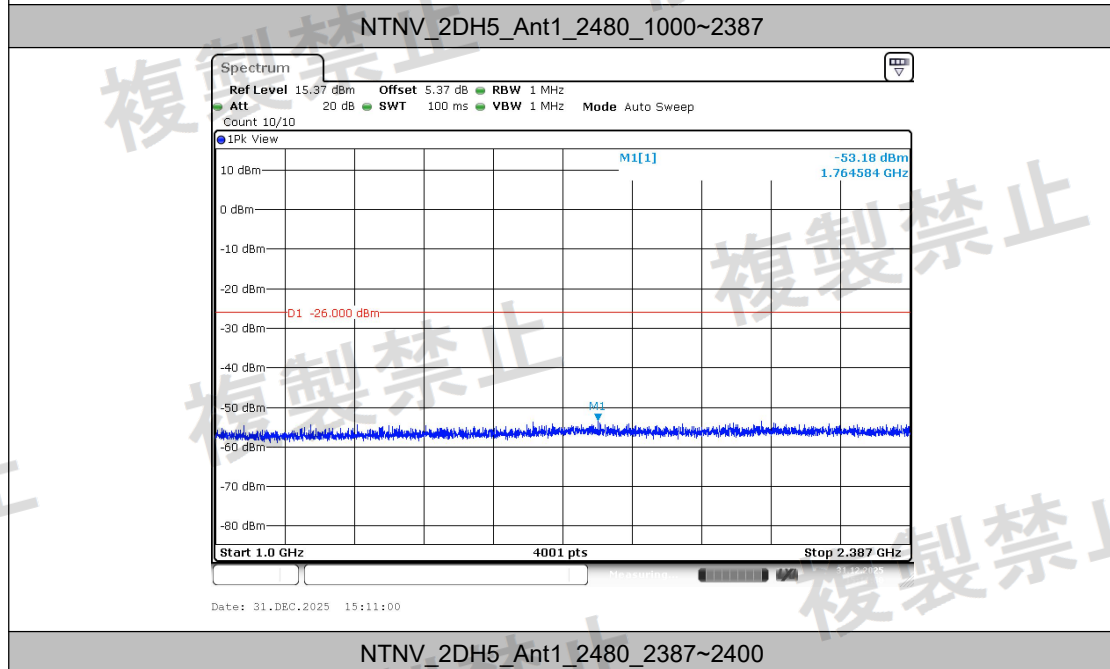
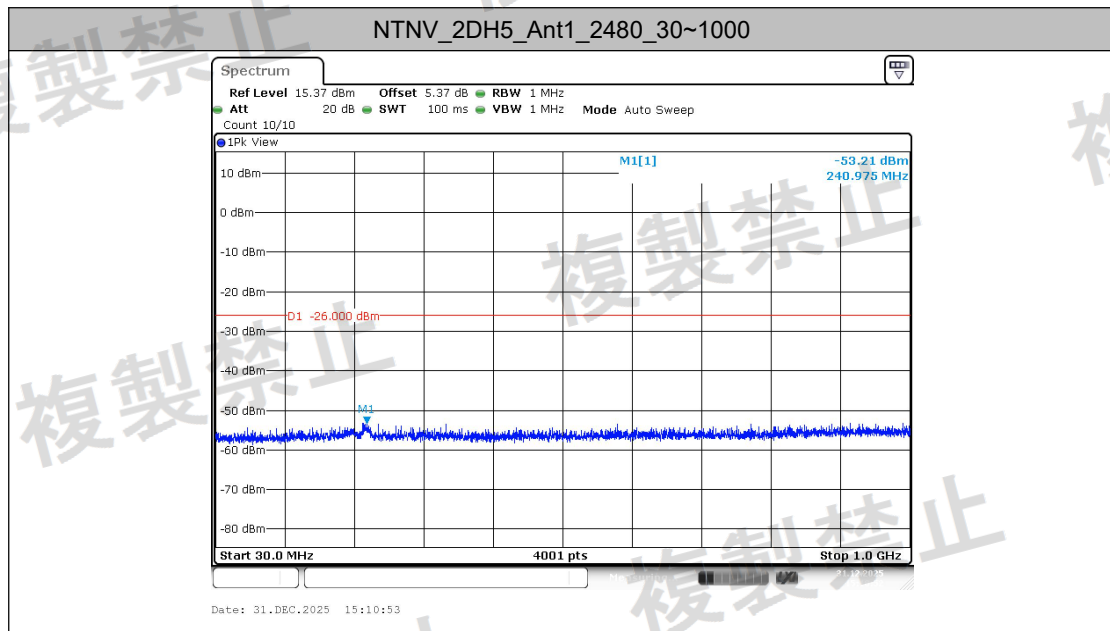


NTVN_2DH5_Ant1_2441_2483.5~2496.5

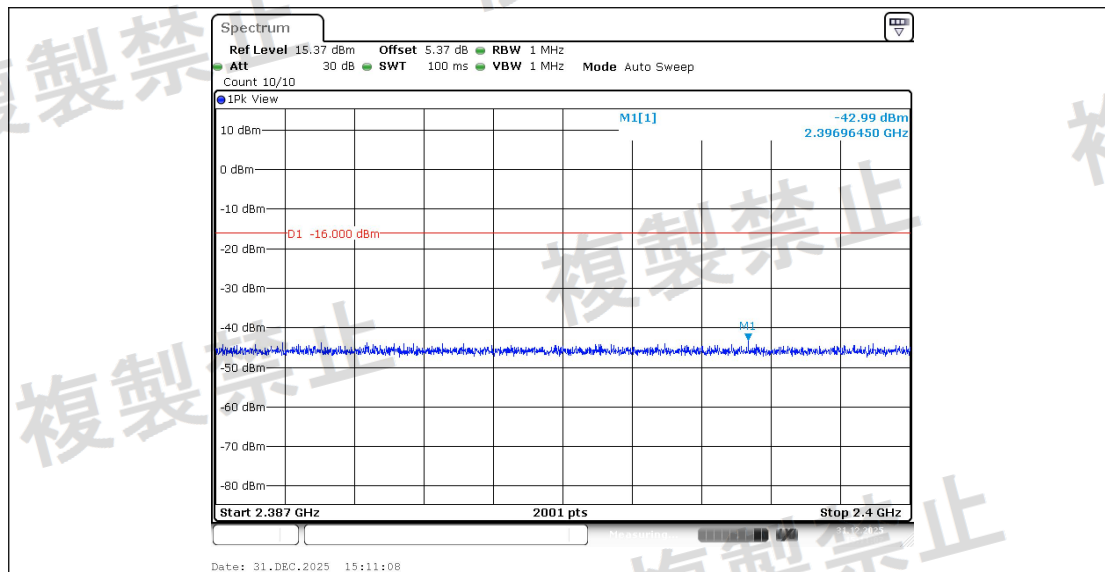


NTVN_2DH5_Ant1_2441_2496.5~13000

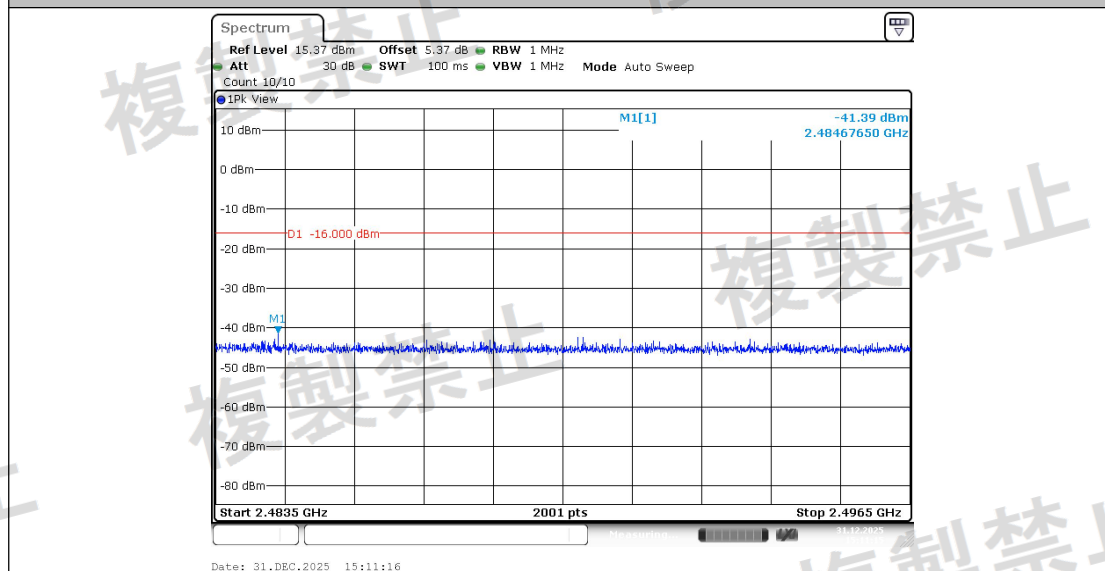




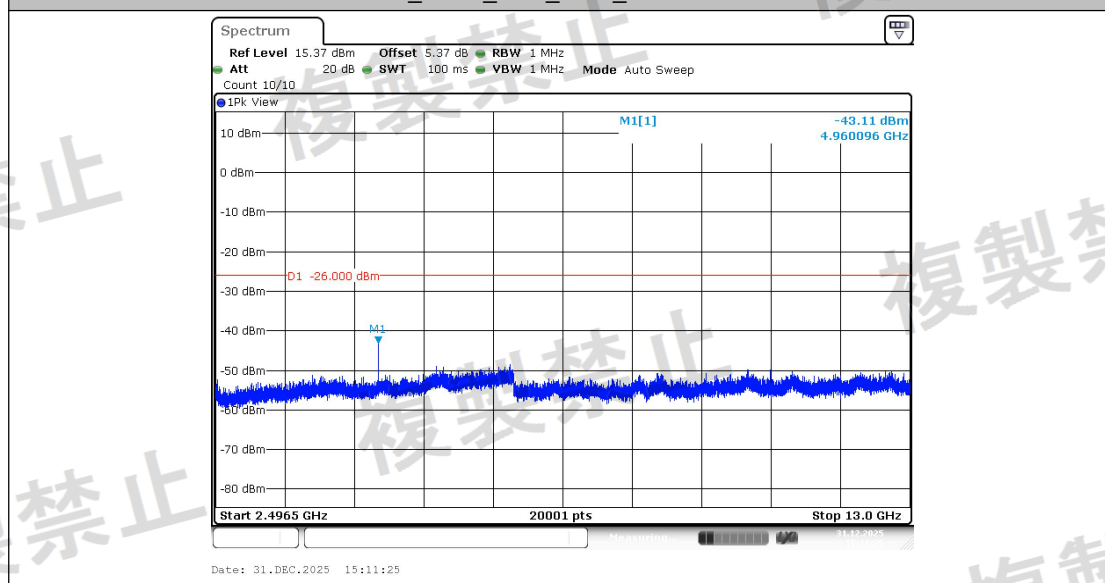
NTNV_2DH5_Ant1_2480_2387~2400

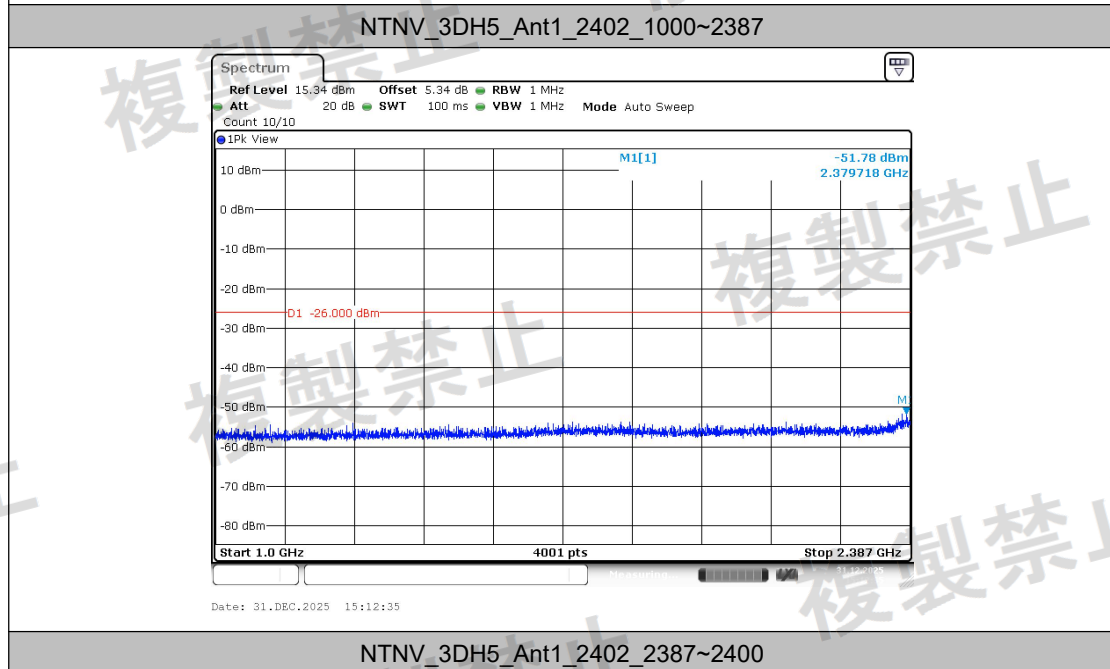
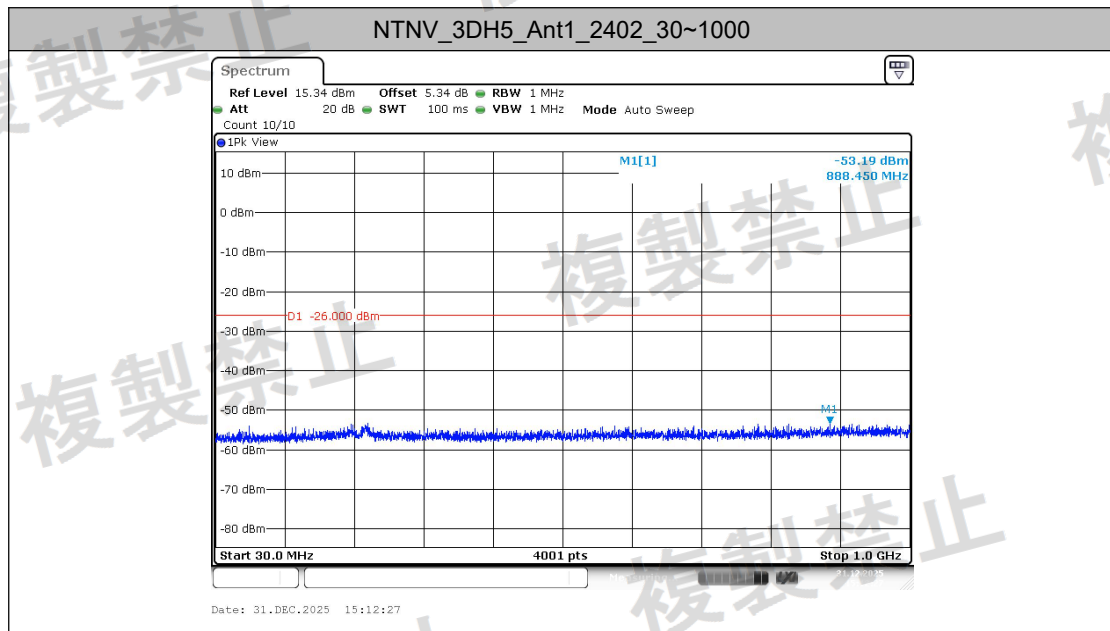


NTVN_2DH5_Ant1_2480_2483.5~2496.5

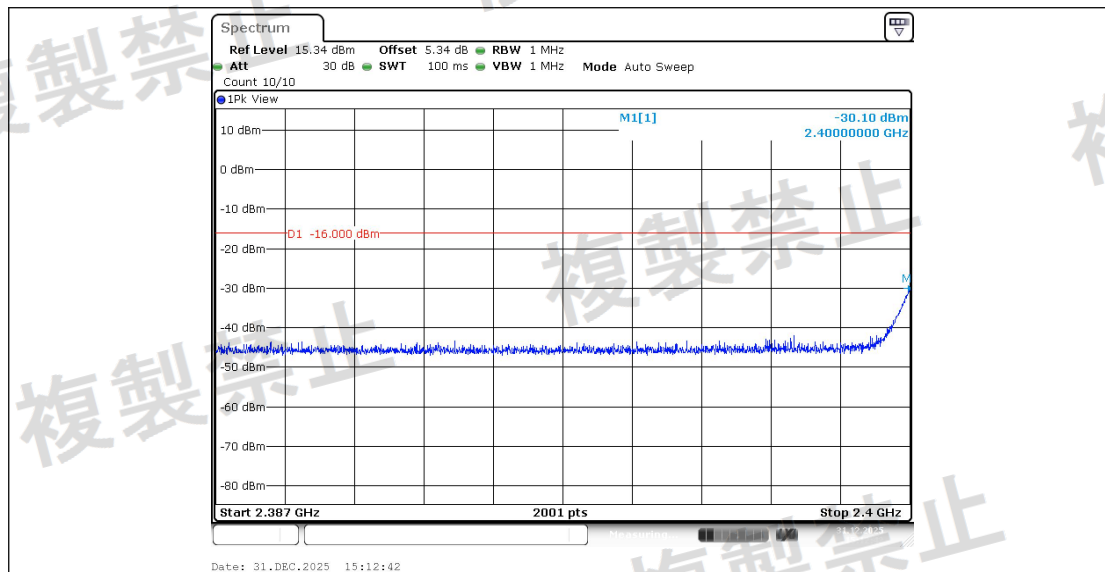


NTVN_2DH5_Ant1_2480_2496.5~13000

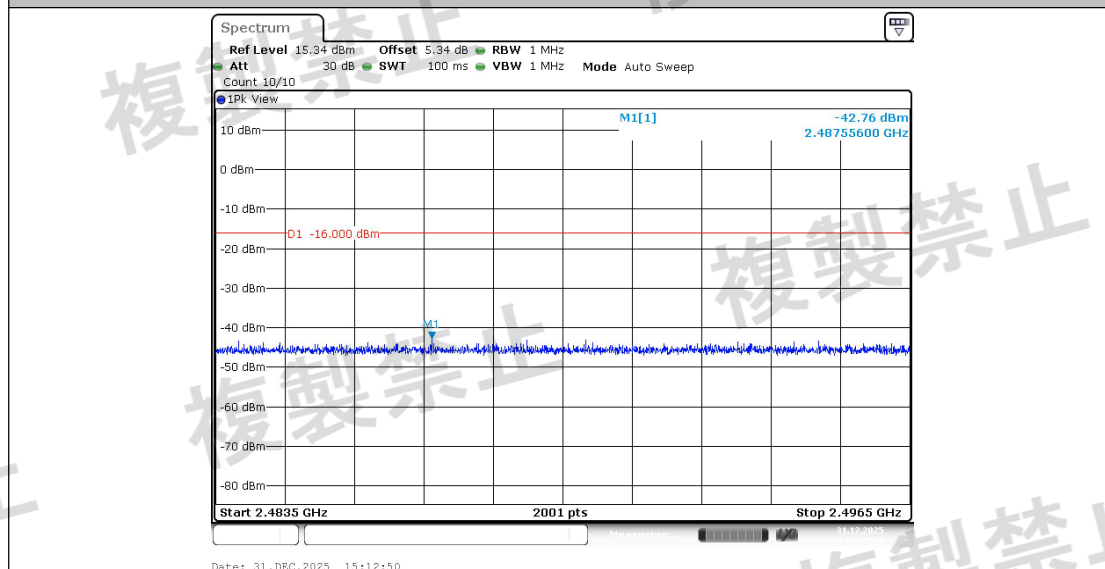




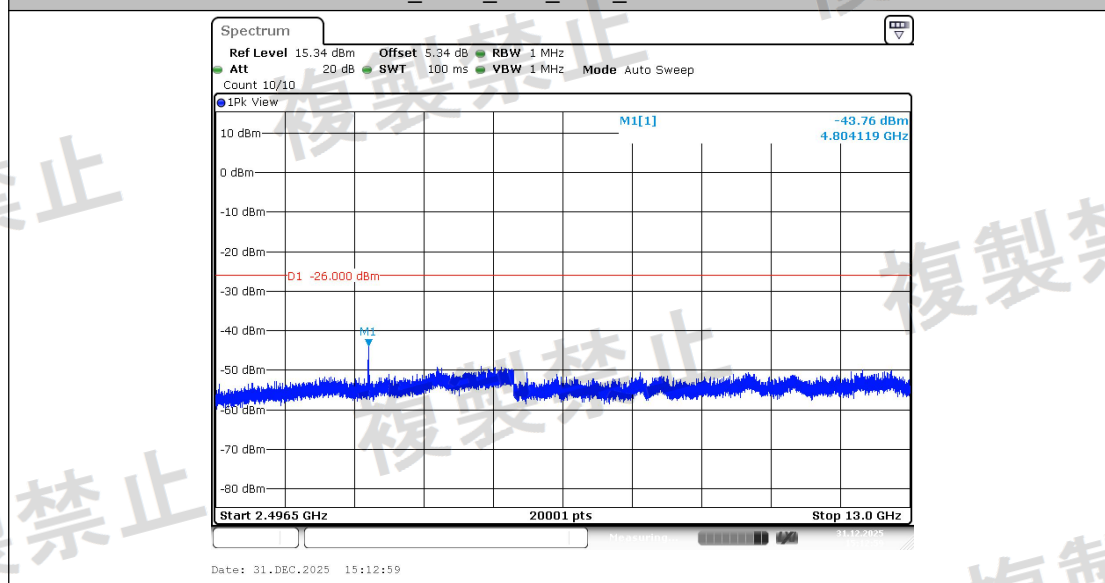
NTNV_3DH5_Ant1_2402_2387~2400

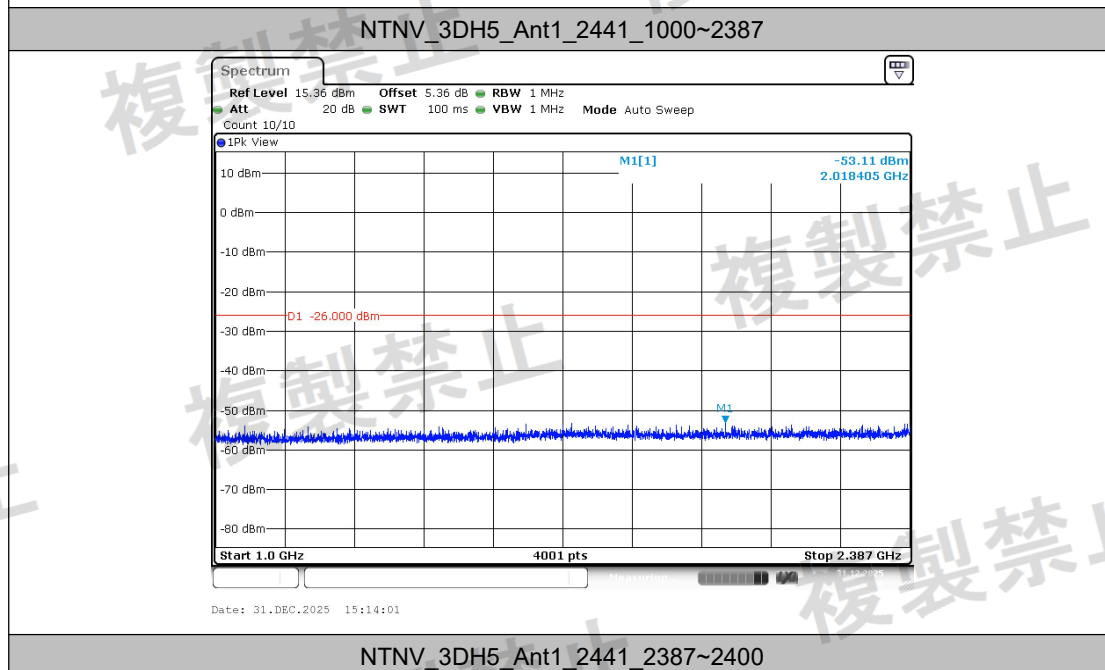
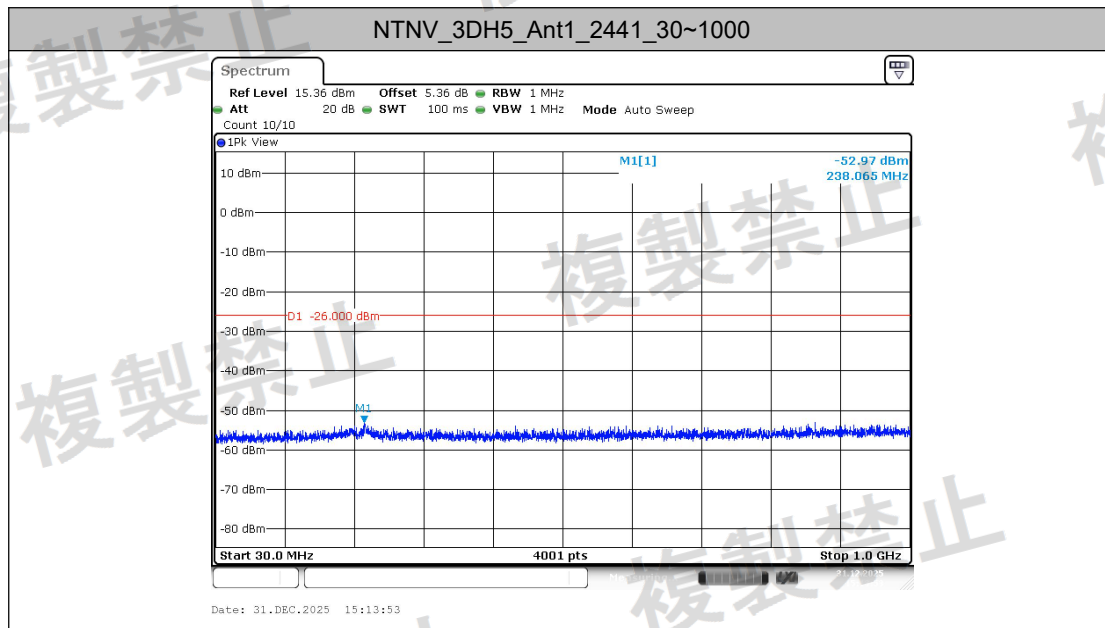


NTVN_3DH5_Ant1_2402_2483.5~2496.5

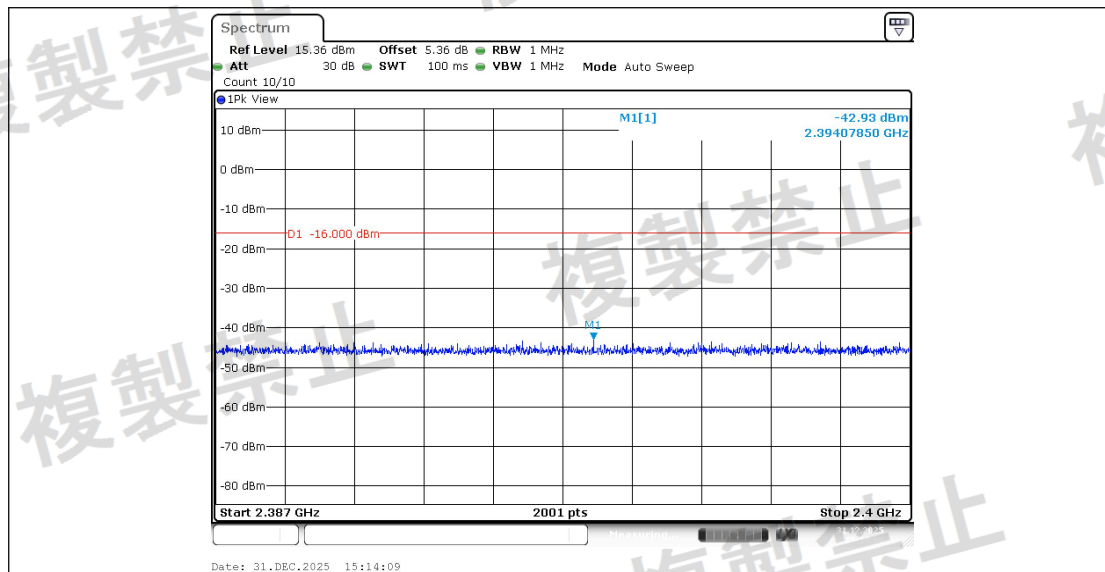


NTVN_3DH5_Ant1_2402_2496.5~13000

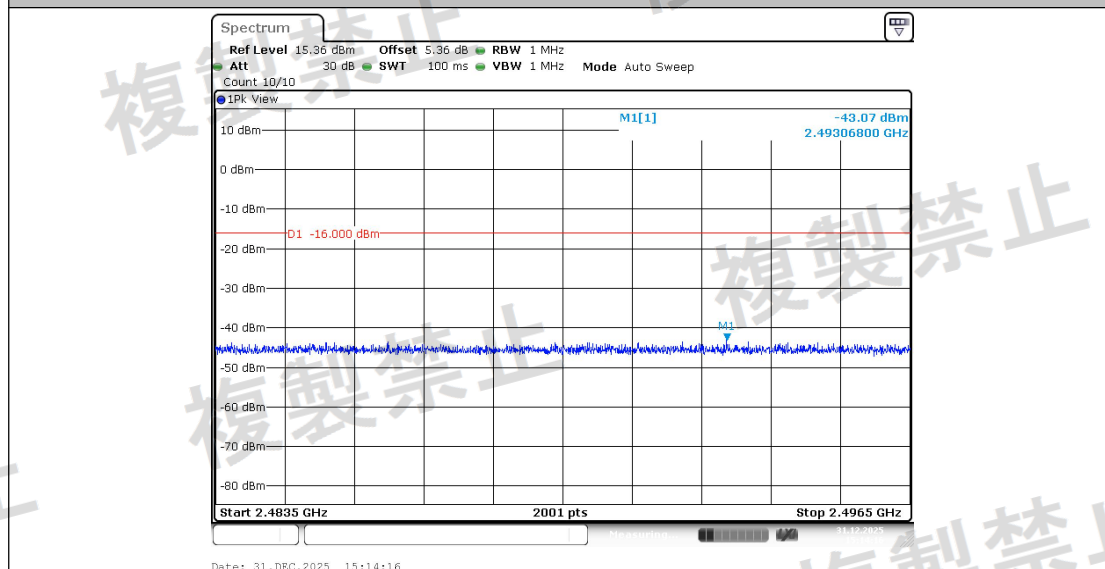




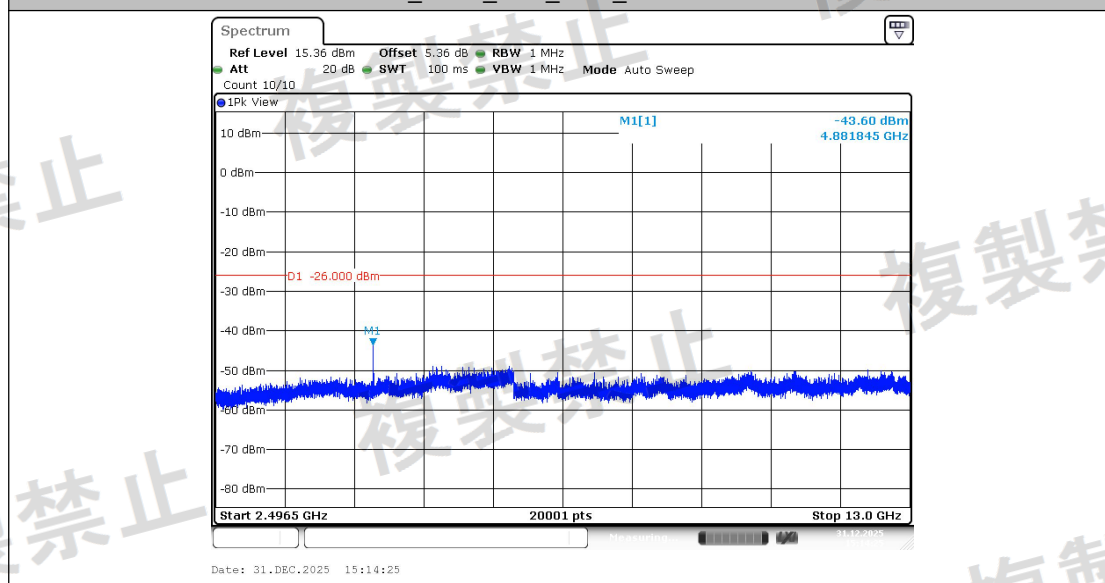
NTNV_3DH5_Ant1_2441_2387~2400

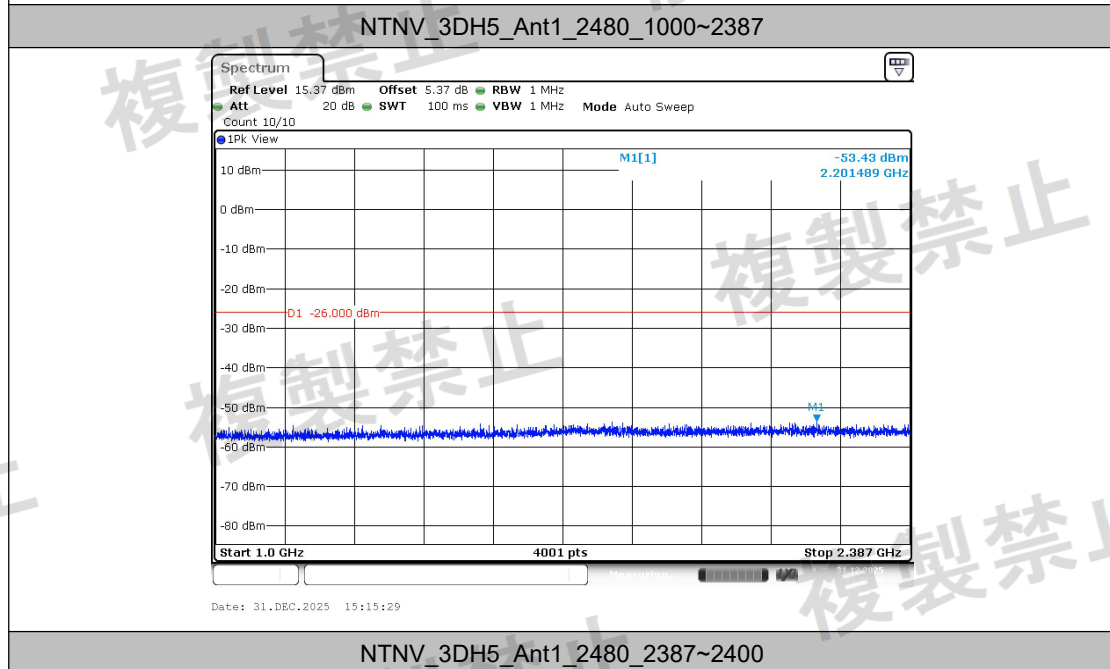
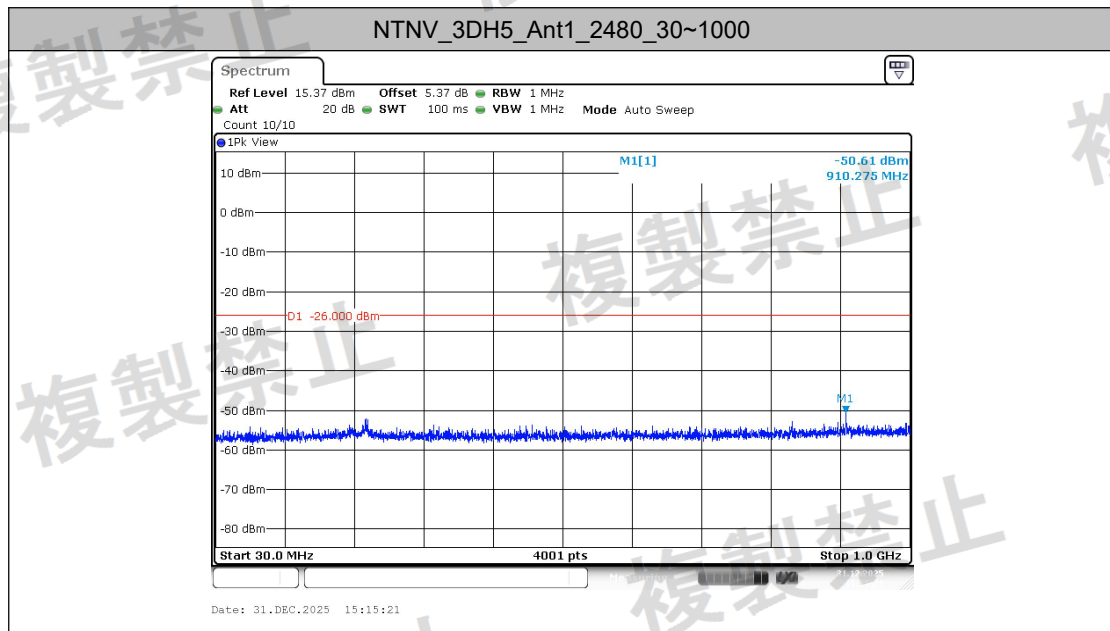


NTVN_3DH5_Ant1_2441_2483.5~2496.5

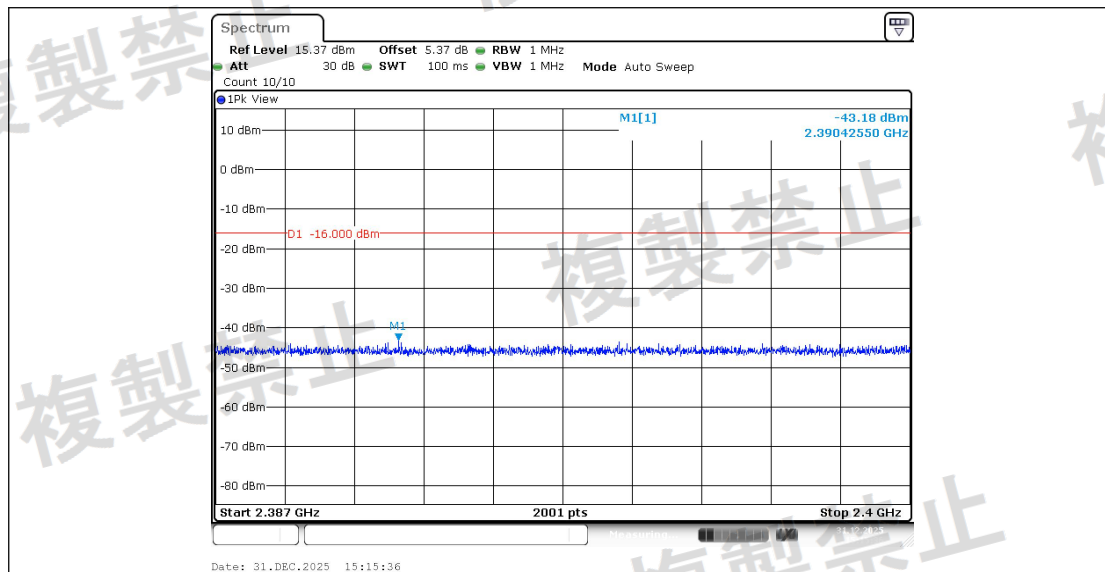


NTVN_3DH5_Ant1_2441_2496.5~13000

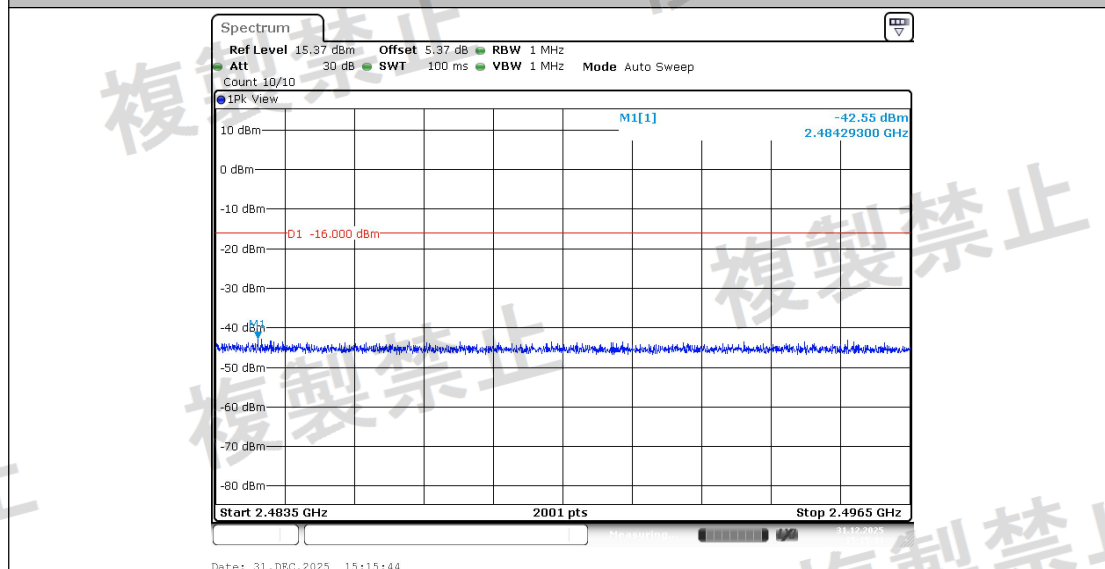




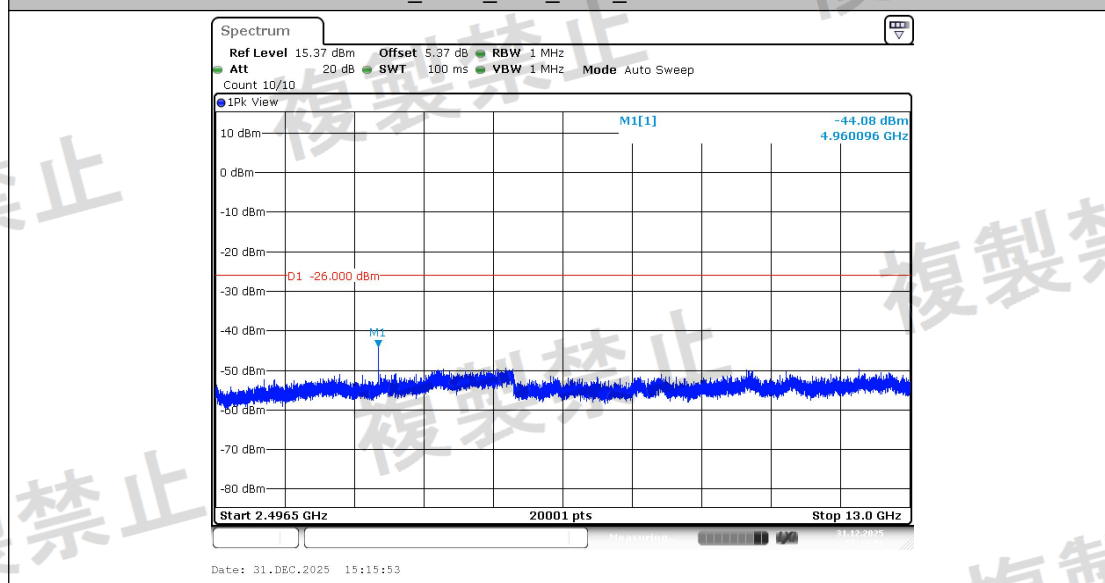
NTNV_3DH5_Ant1_2480_2387~2400



NTVN_3DH5_Ant1_2480_2483.5~2496.5



NTVN_3DH5_Ant1_2480_2496.5~13000

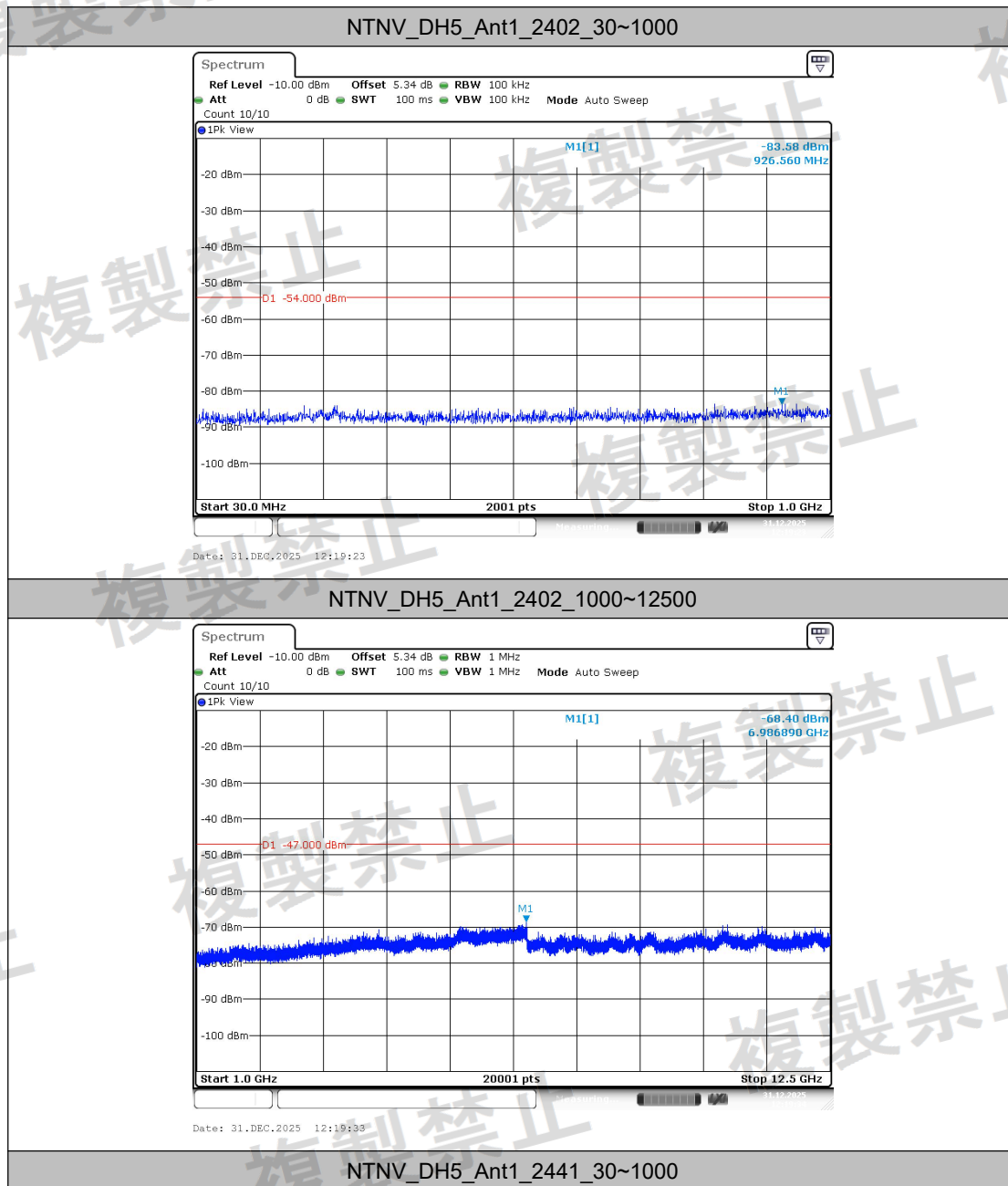


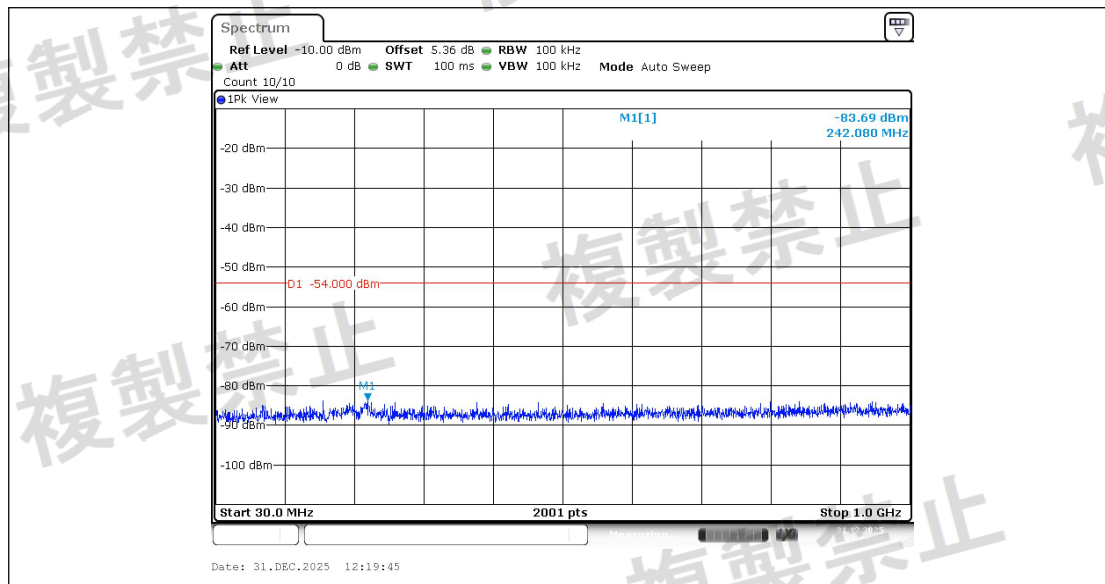
Appendix E: Spurious Emission of RX

Test Result

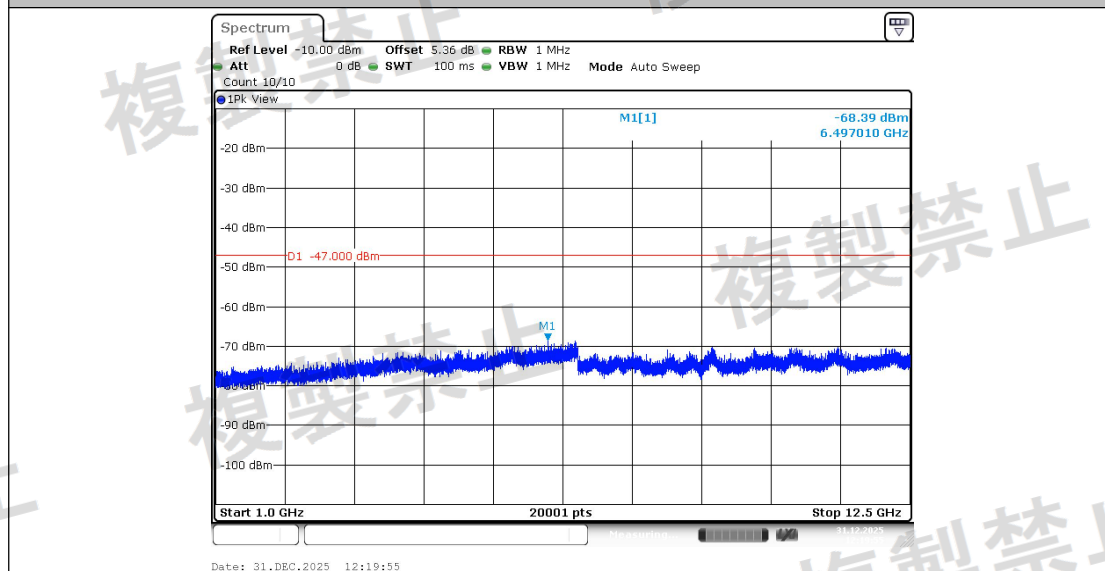
Test Condition	Test Mode	Antenna	Freq(M Hz)	Freq.Range [MHz]	Freq. [MHz]	Result [dBm]	Limit [dBm]	Result [nW]	Limit [nW]	Verdict
NTNV	DH5	Ant1	2402	30~1000	926.56	-83.58	≤-54	0.00439	≤4	PASS
				1000~12500	6986.89	-68.40	≤-47	0.14454	≤20	PASS
			2441	30~1000	242.08	-83.69	≤-54	0.00428	≤4	PASS
				1000~12500	6497.01	-68.39	≤-47	0.14488	≤20	PASS
			2480	30~1000	891.17	-82.69	≤-54	0.00538	≤4	PASS
				1000~12500	6666.05	-68.23	≤-47	0.15031	≤20	PASS
	2DH5	Ant1	2402	30~1000	948.37	-83.16	≤-54	0.00483	≤4	PASS
				1000~12500	10524.69	-68.28	≤-47	0.14859	≤20	PASS
			2441	30~1000	565.41	-83.67	≤-54	0.00430	≤4	PASS
				1000~12500	6913.29	-68.62	≤-47	0.13740	≤20	PASS
			2480	30~1000	237.23	-82.85	≤-54	0.00519	≤4	PASS
				1000~12500	6936.87	-68.93	≤-47	0.12794	≤20	PASS
	3DH5	Ant1	2402	30~1000	960.49	-83.10	≤-54	0.00490	≤4	PASS
				1000~12500	6973.09	-68.68	≤-47	0.13552	≤20	PASS
			2441	30~1000	805.85	-83.26	≤-54	0.00472	≤4	PASS
				1000~12500	6993.21	-68.95	≤-47	0.12735	≤20	PASS
			2480	30~1000	221.24	-82.51	≤-54	0.00561	≤4	PASS
				1000~12500	6958.71	-68.23	≤-47	0.15031	≤20	PASS

Test Graphs

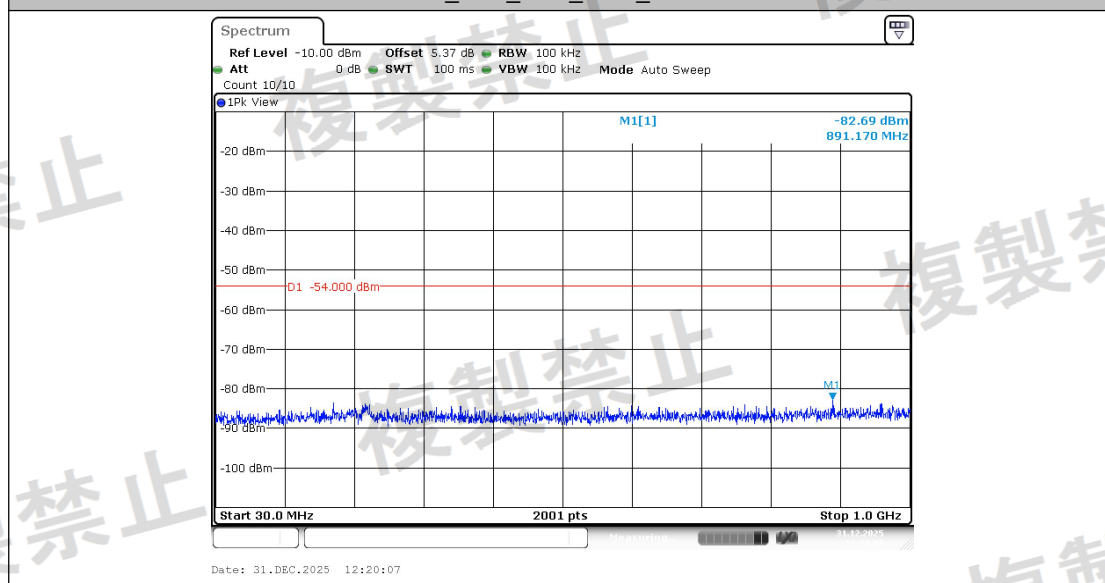


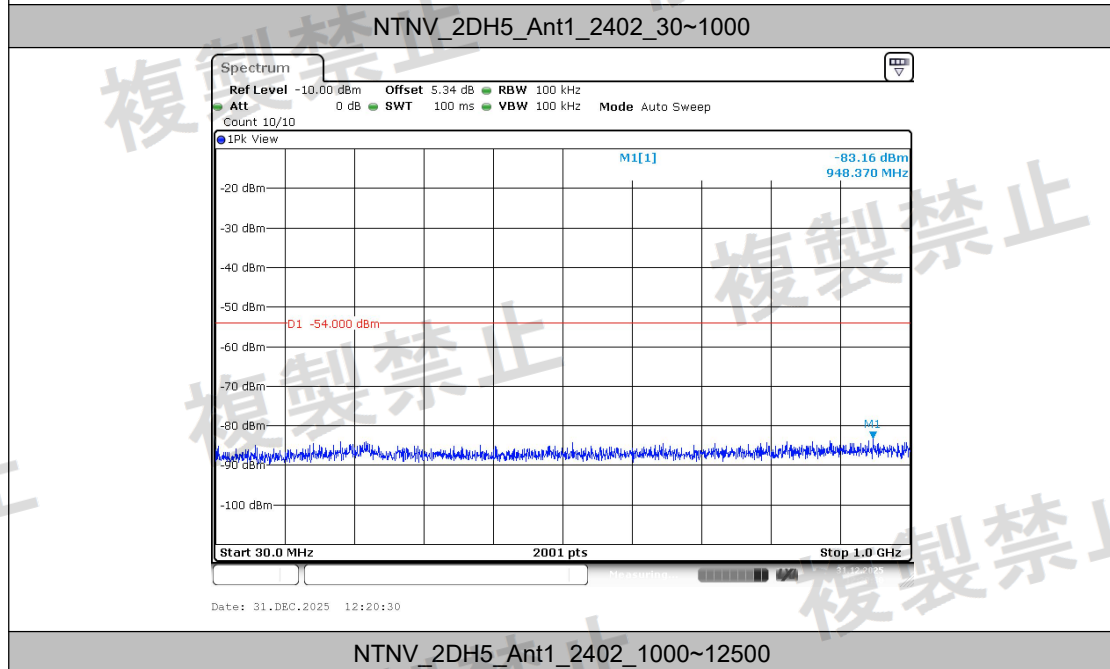
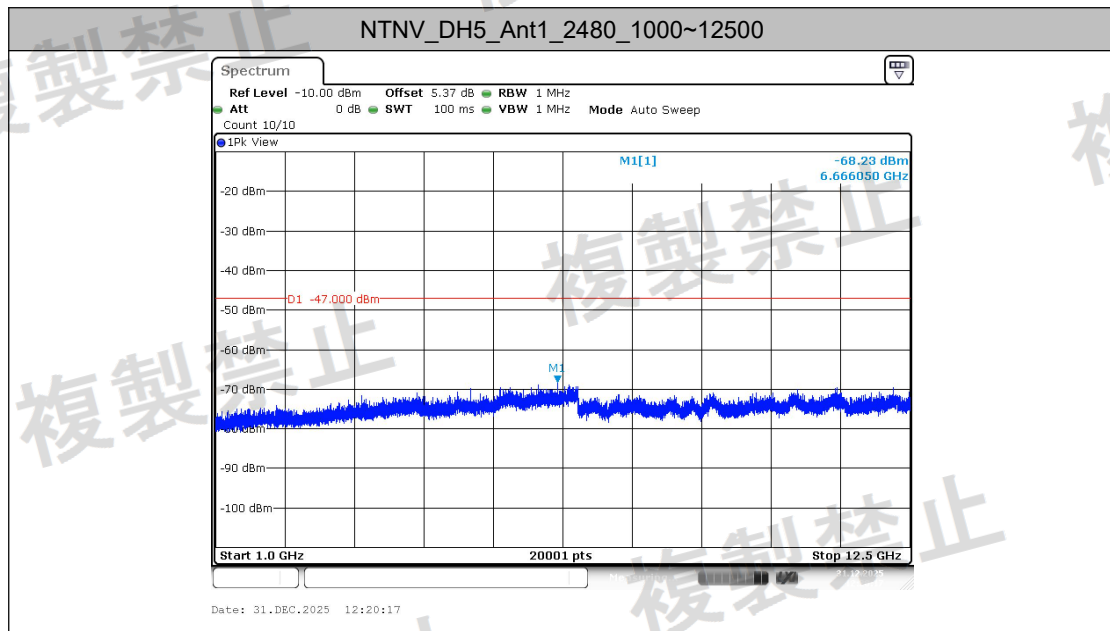


NTNV_DH5_Ant1_2441_1000~12500

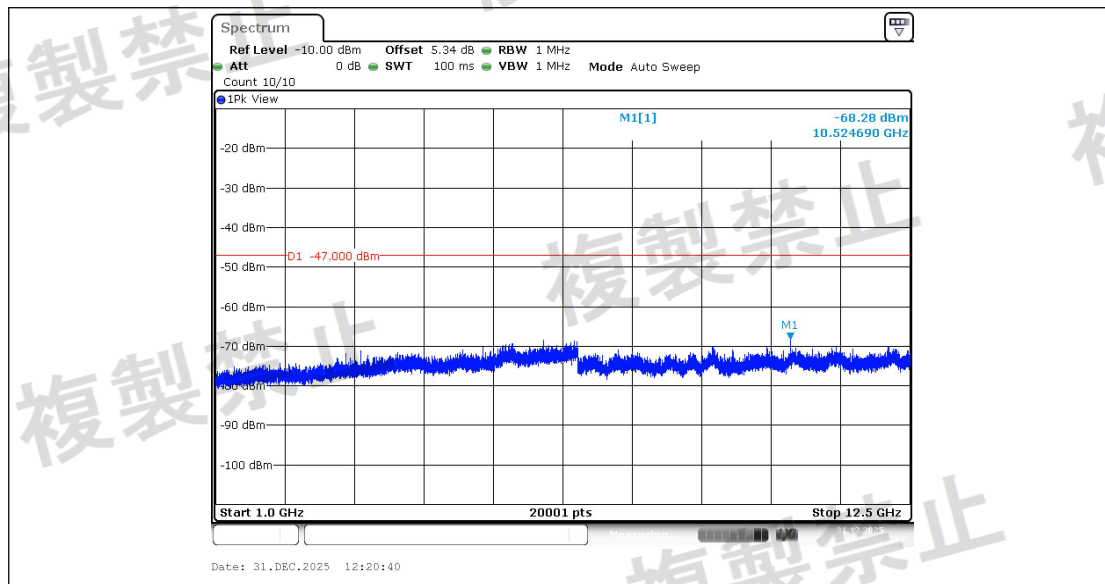


NTNV_DH5_Ant1_2480_30~1000

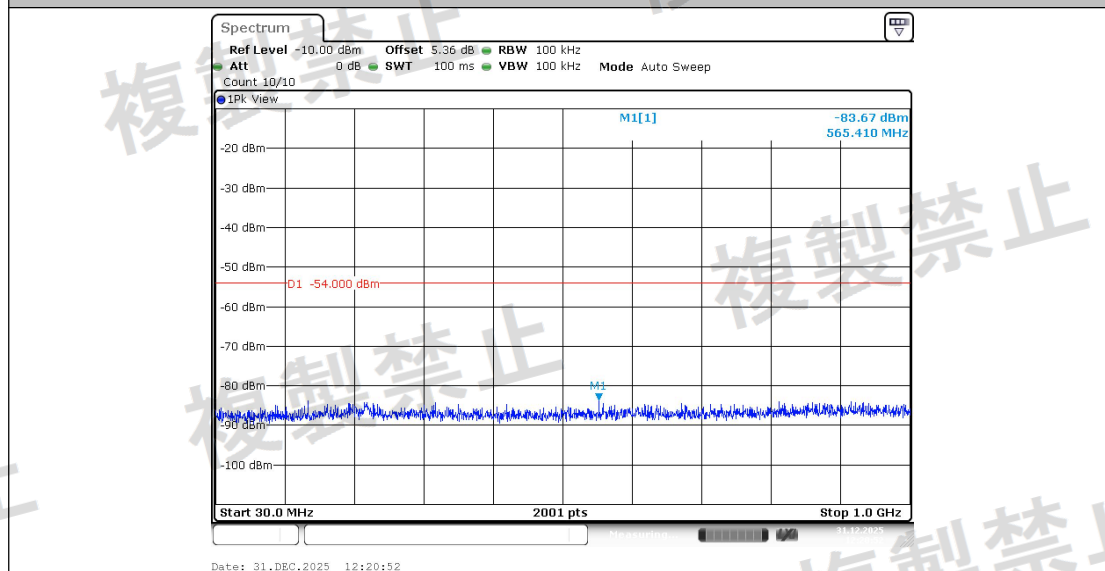




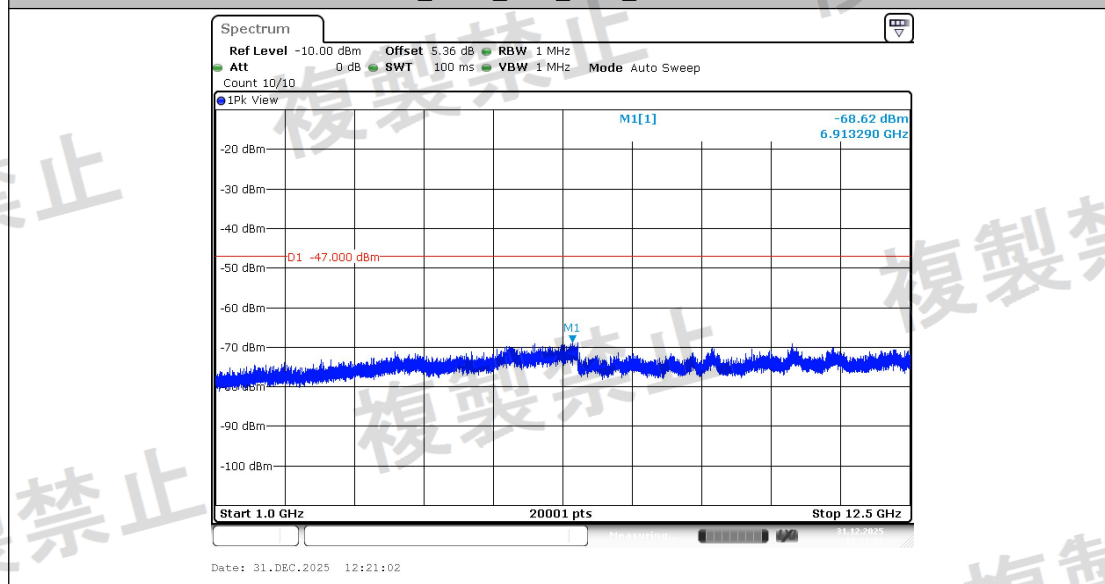
NTNV_2DH5_Ant1_2402_1000~12500

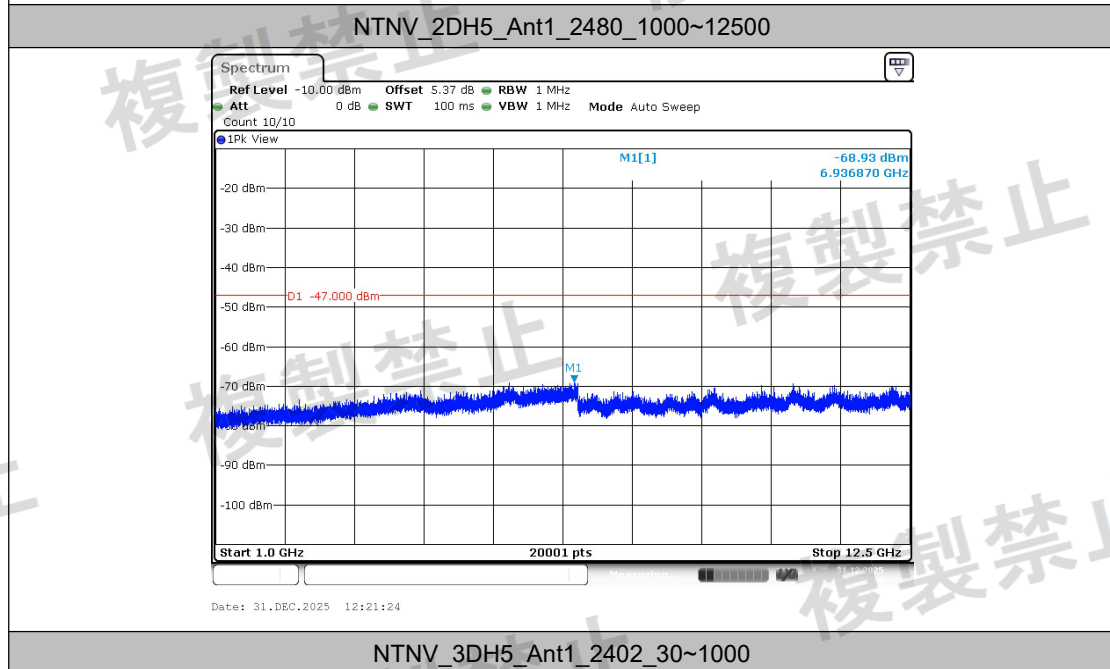
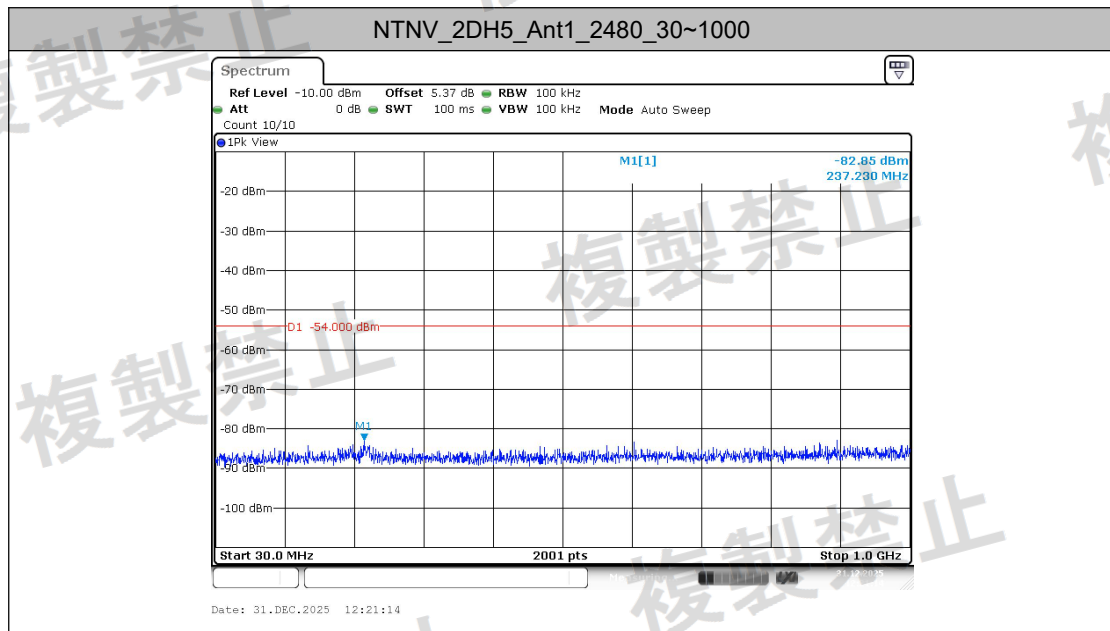


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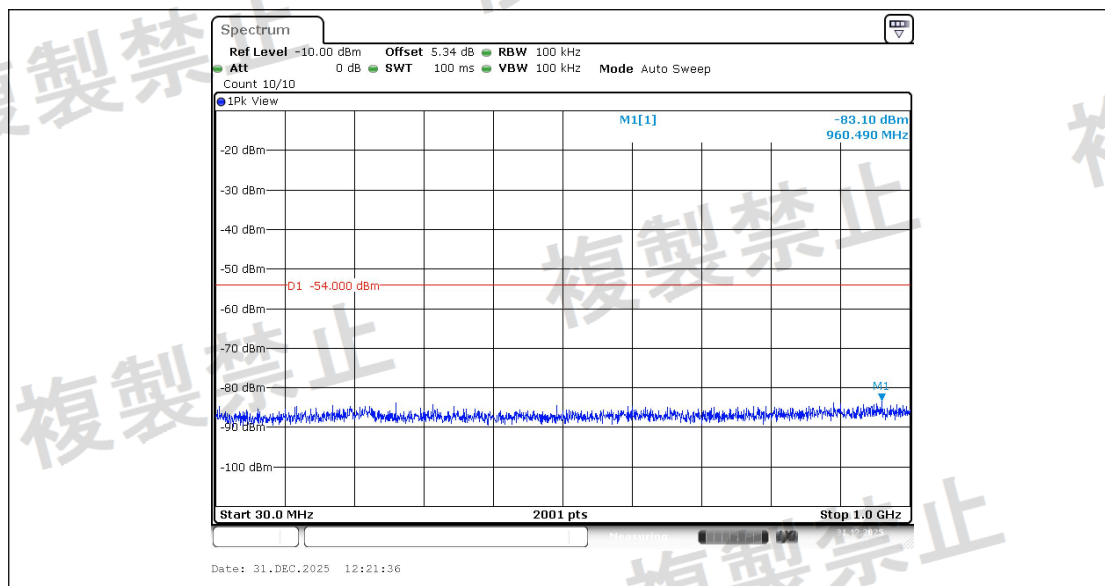


NTNV_2DH5_Ant1_2441_1000~12500

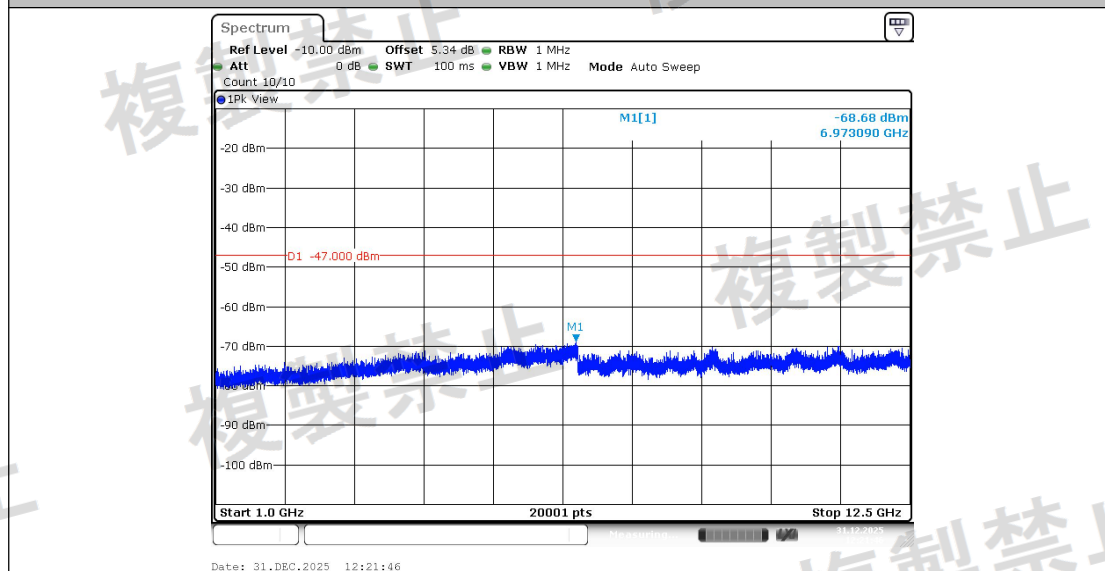




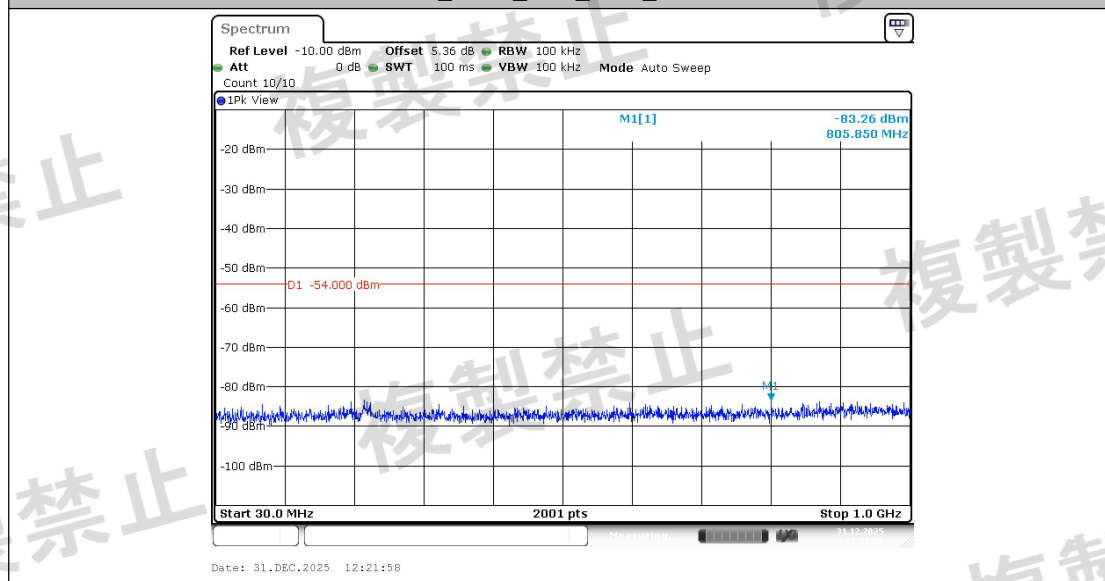
NTNV_3DH5_Ant1_2402_30~1000

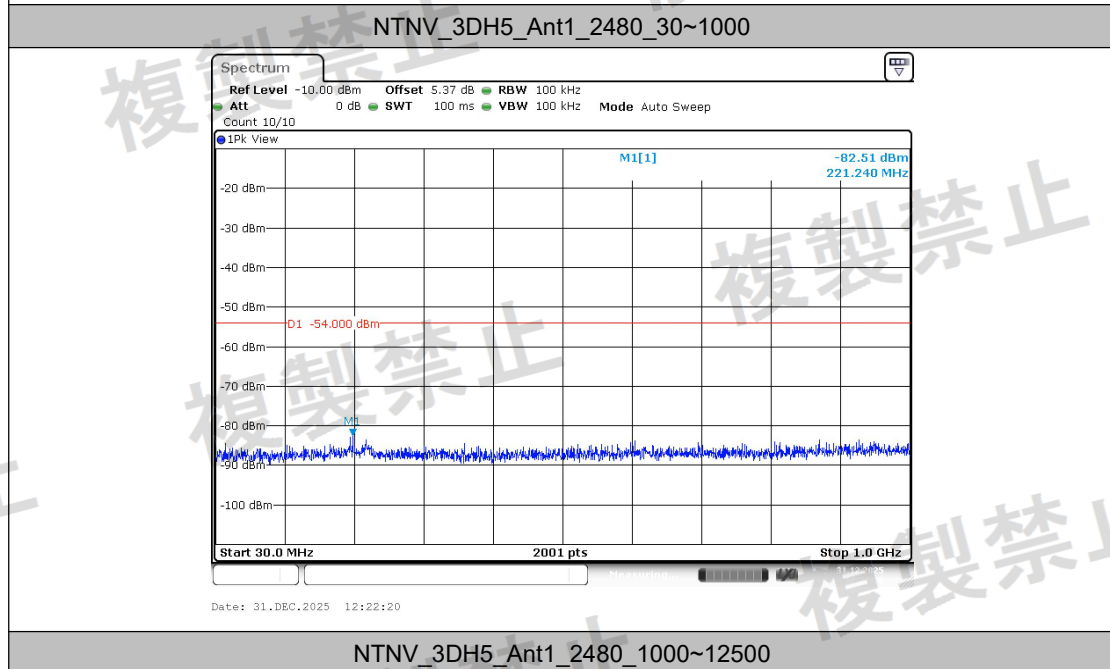
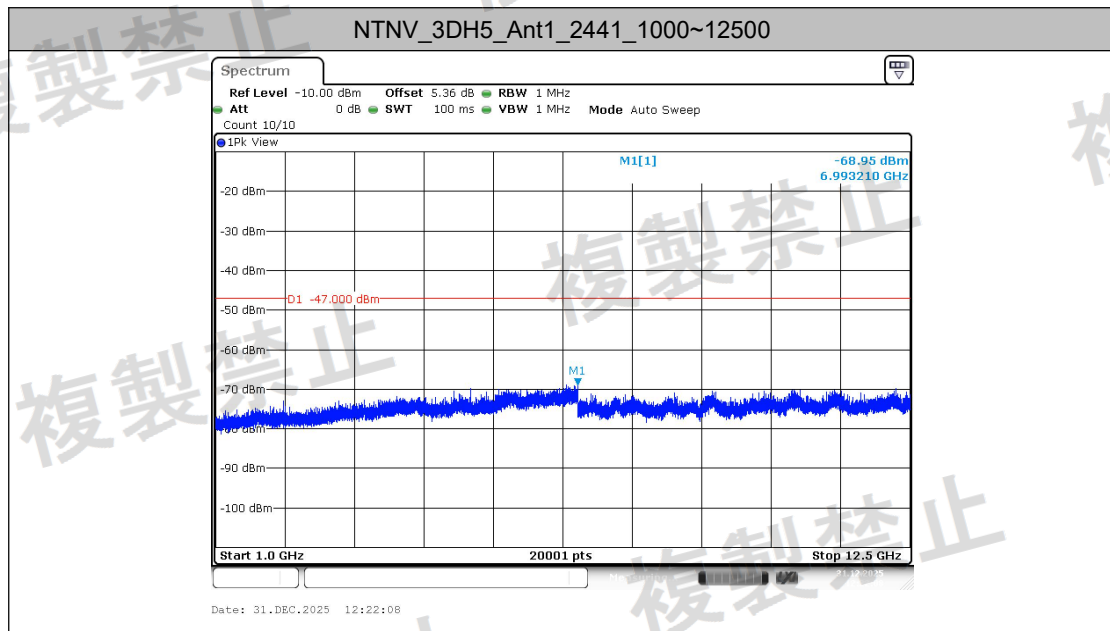


NTNV_3DH5_Ant1_2402_1000~12500

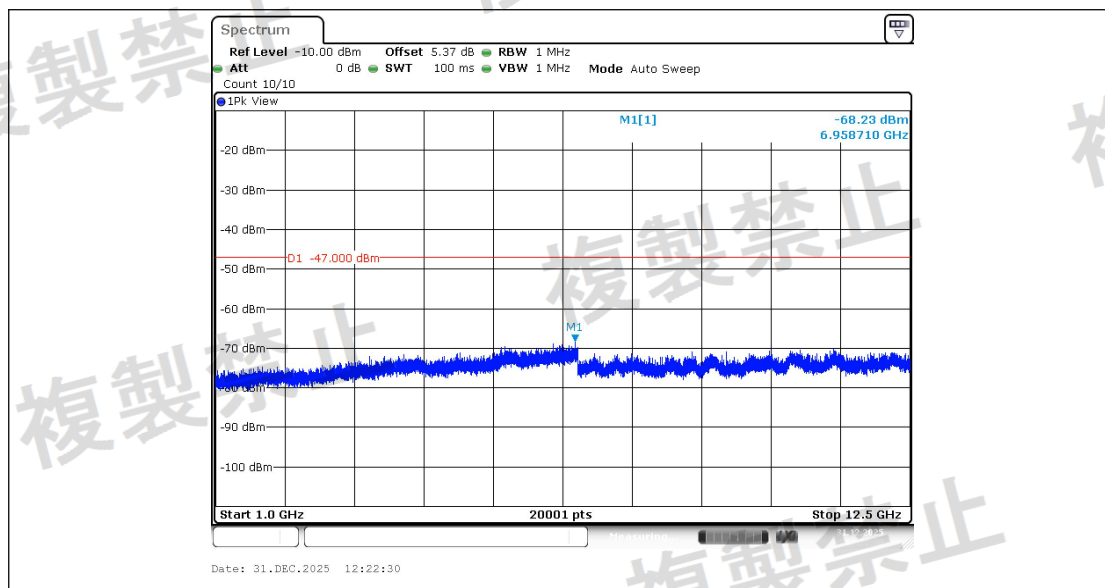


NTNV_3DH5_Ant1_2441_30~1000





NTNV_3DH5_Ant1_2480_1000~12500

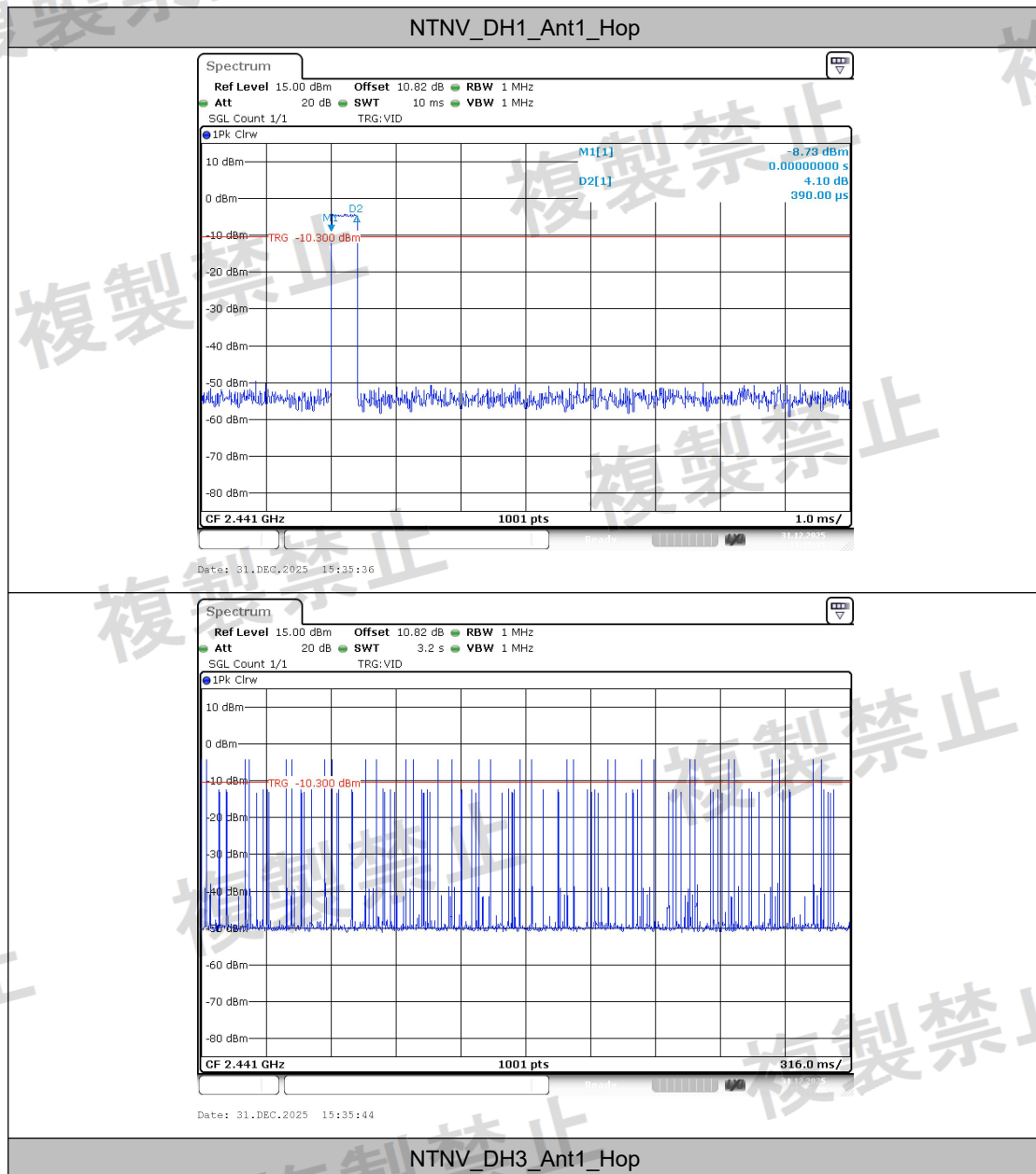


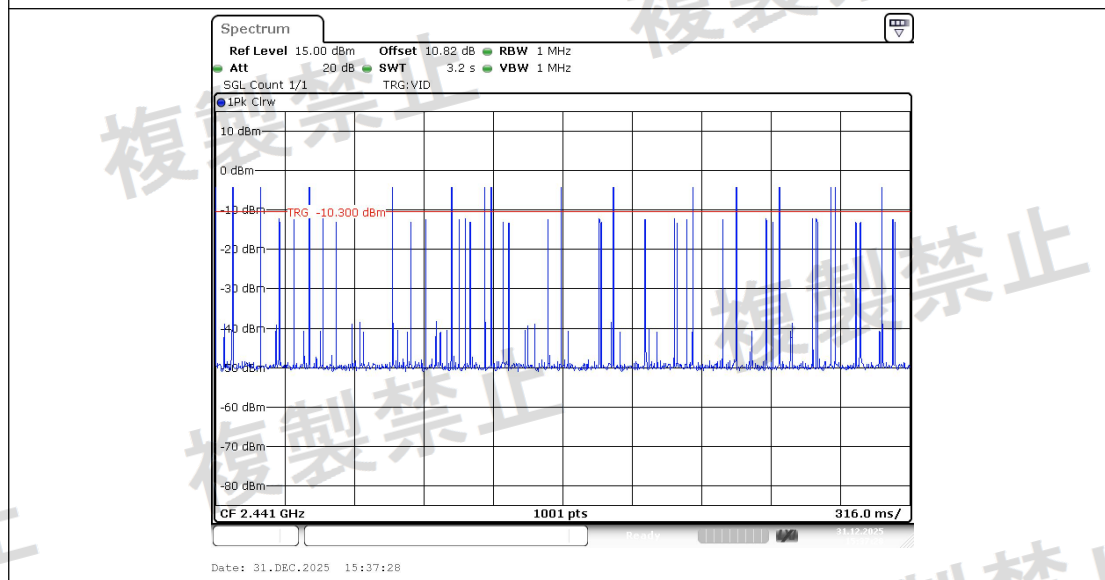
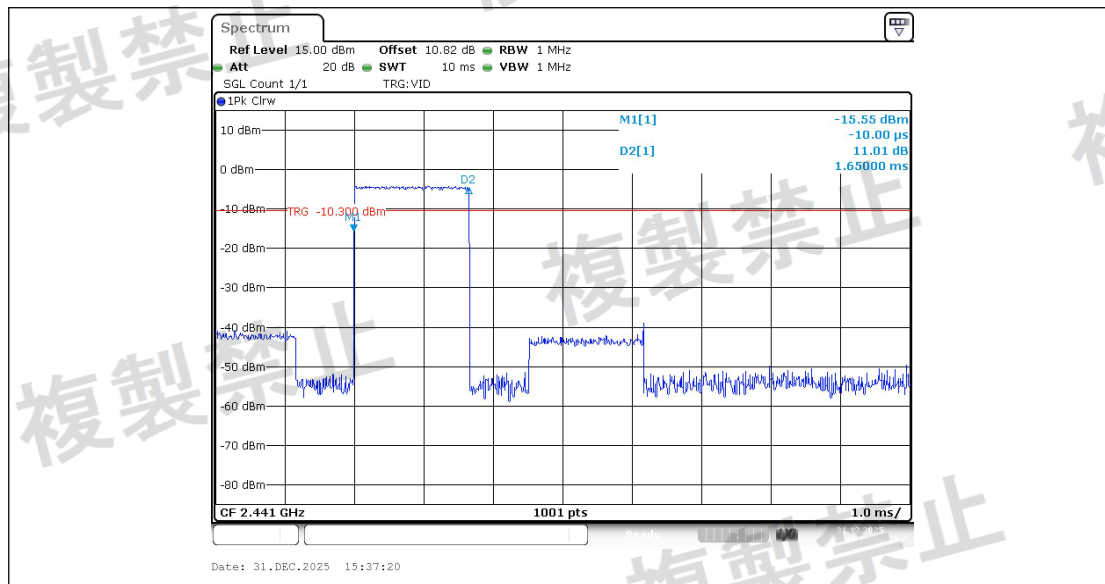
Appendix F: Dwell Time

Test Result

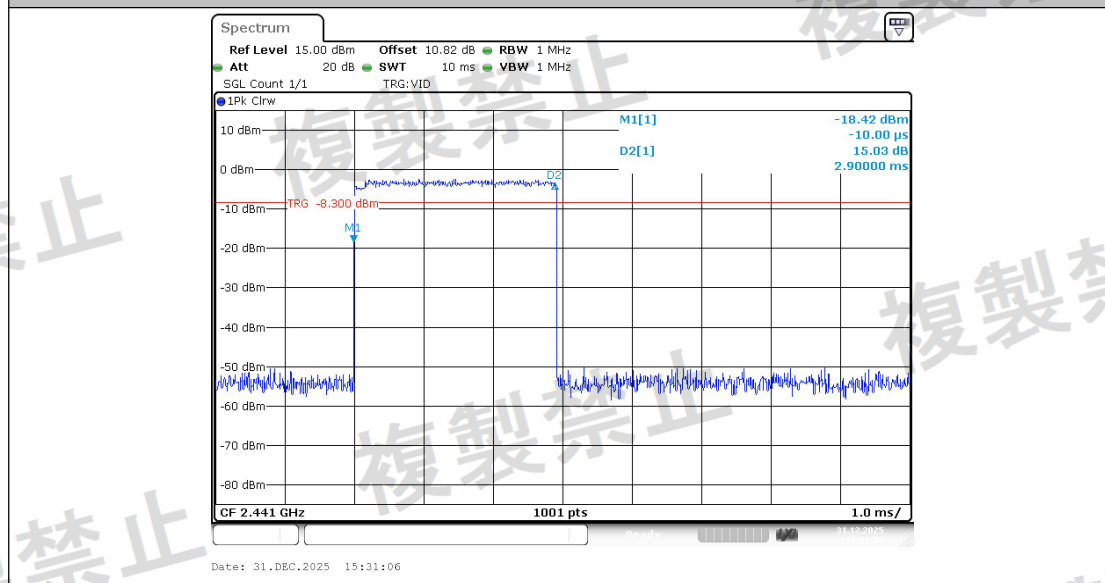
Test Condition	Test Mode	Antenna	Freq(M Hz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit [s]	Verdict
NTNV	DH1	Ant1	Hop	0.39	320	0.125	≤0.4	PASS
	DH3	Ant1	Hop	1.65	160	0.264	≤0.4	PASS
	DH5	Ant1	Hop	2.90	100	0.29	≤0.4	PASS
	2DH1	Ant1	Hop	0.39	320	0.125	≤0.4	PASS
	2DH3	Ant1	Hop	1.64	170	0.279	≤0.4	PASS
	2DH5	Ant1	Hop	2.90	130	0.377	≤0.4	PASS
	3DH1	Ant1	Hop	0.39	310	0.121	≤0.4	PASS
	3DH3	Ant1	Hop	1.64	150	0.246	≤0.4	PASS
	3DH5	Ant1	Hop	2.90	90	0.261	≤0.4	PASS

Test Graphs



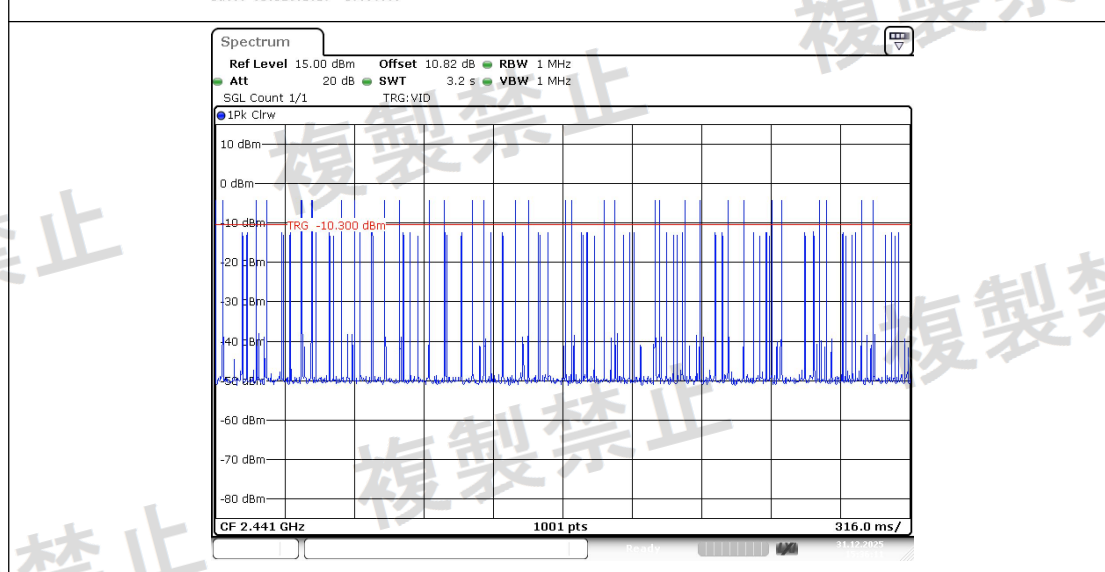
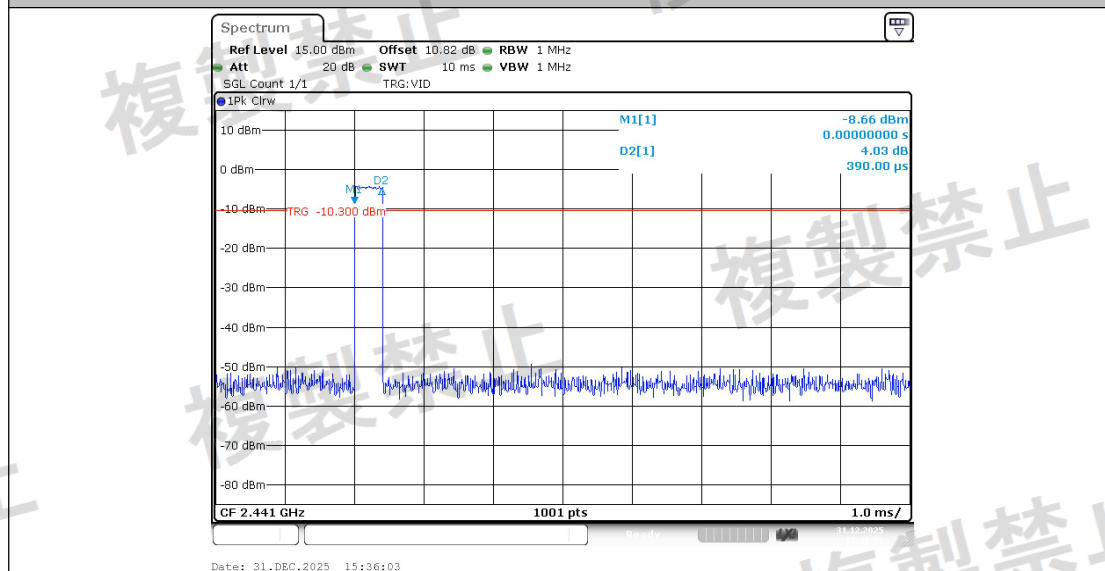


NTNV_DH5_Ant1_Hop

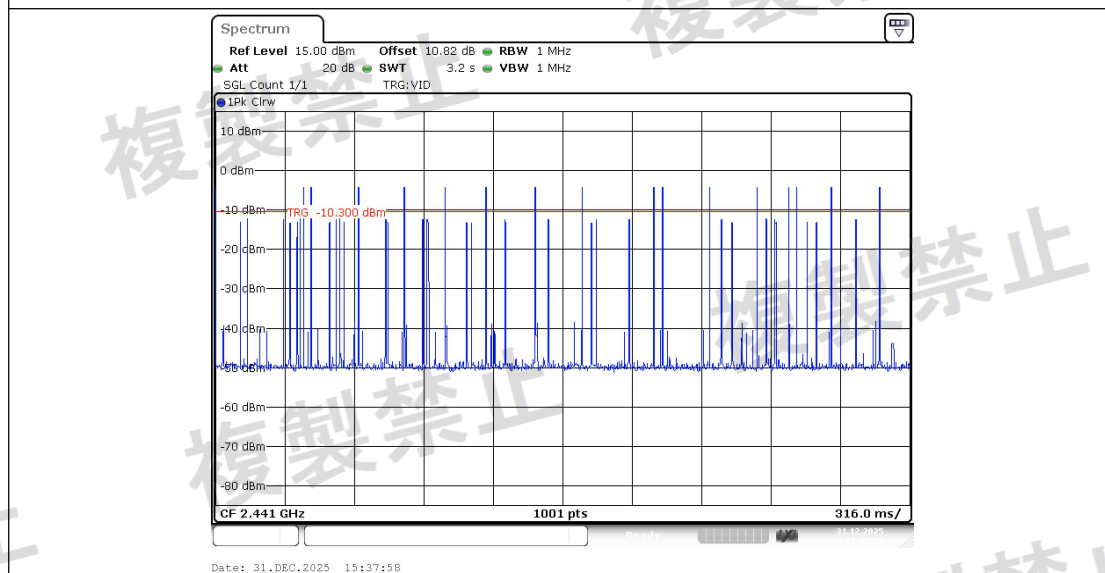
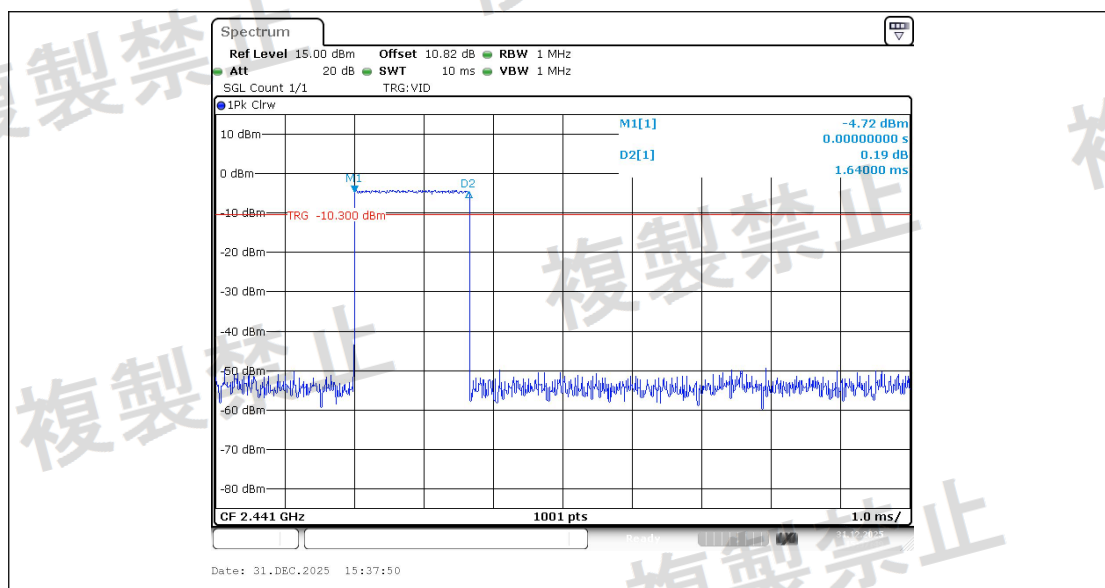




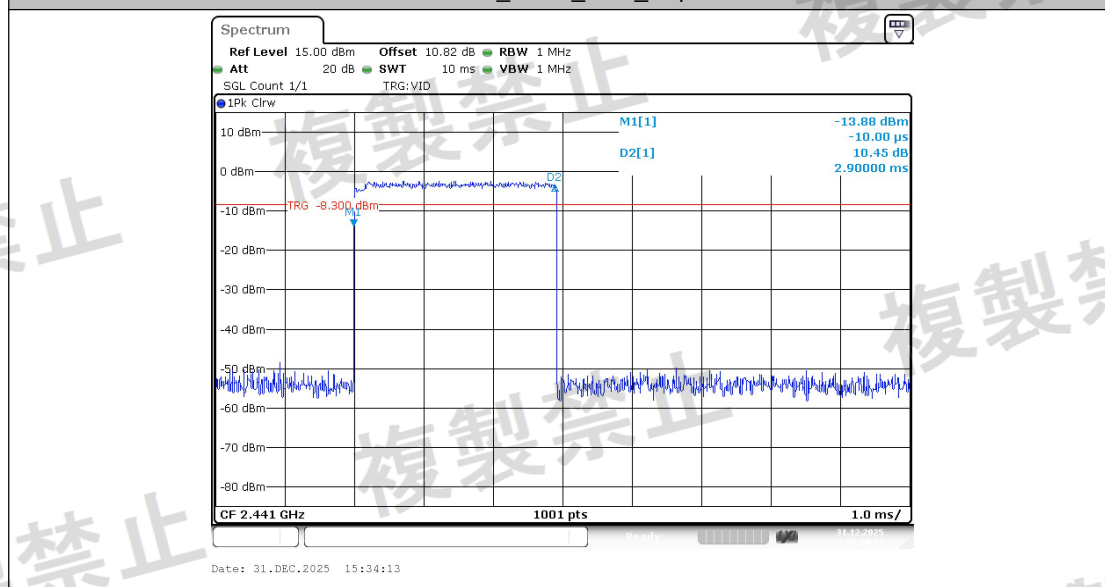
NTNV_2DH1_Ant1_Hop

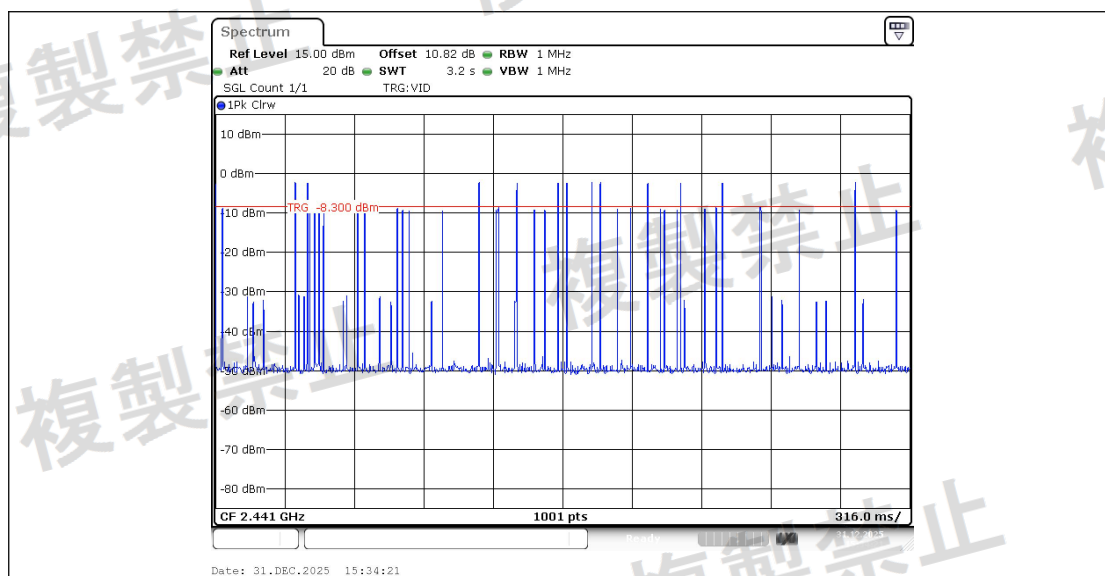


NTNV_2DH3_Ant1_Hop

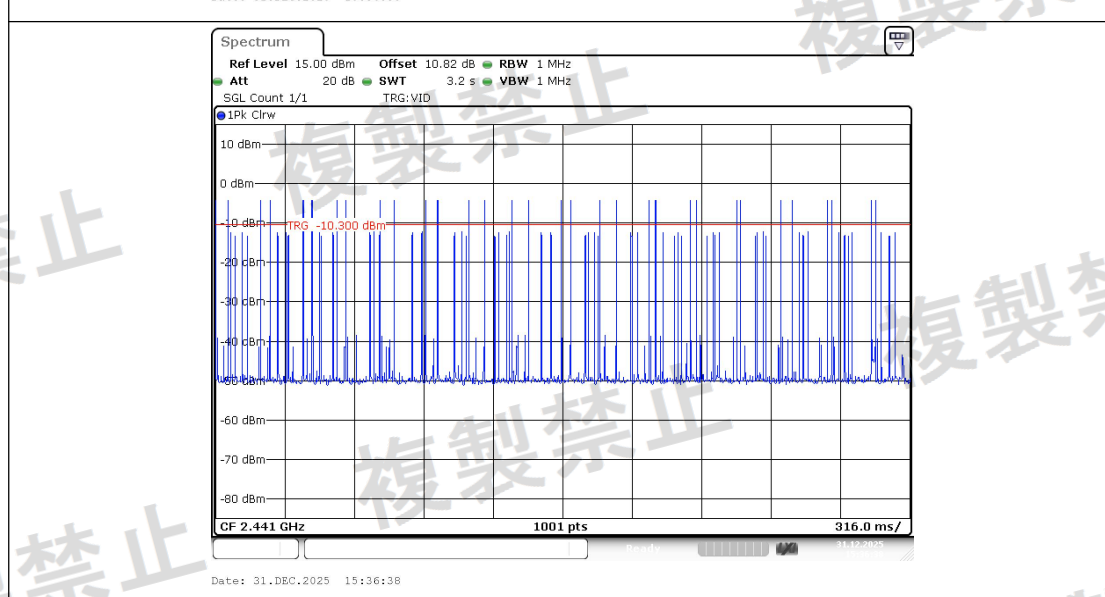
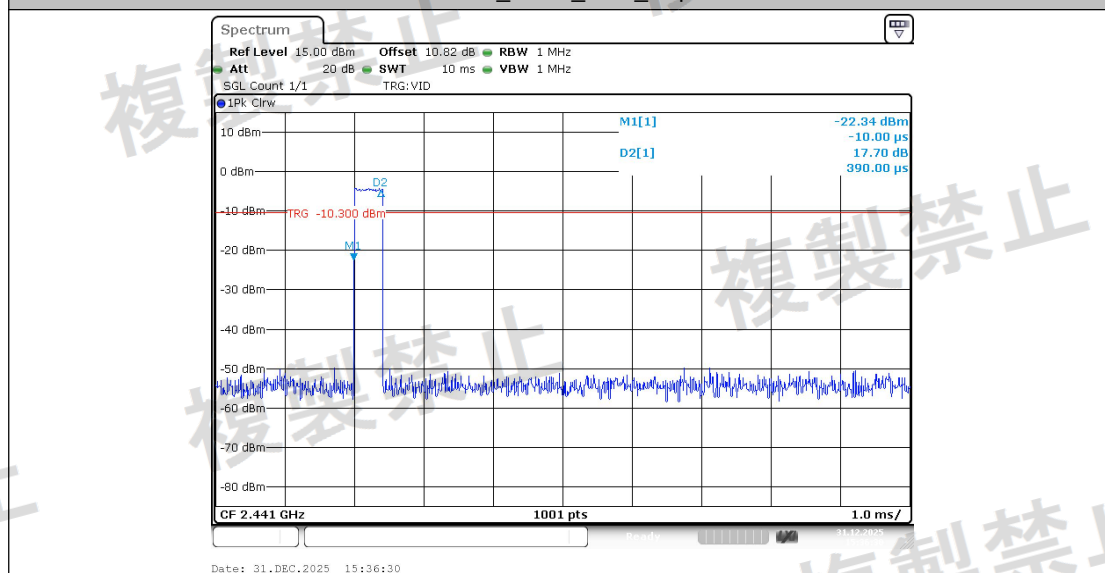


NTNV_2DH5_Ant1_Hop

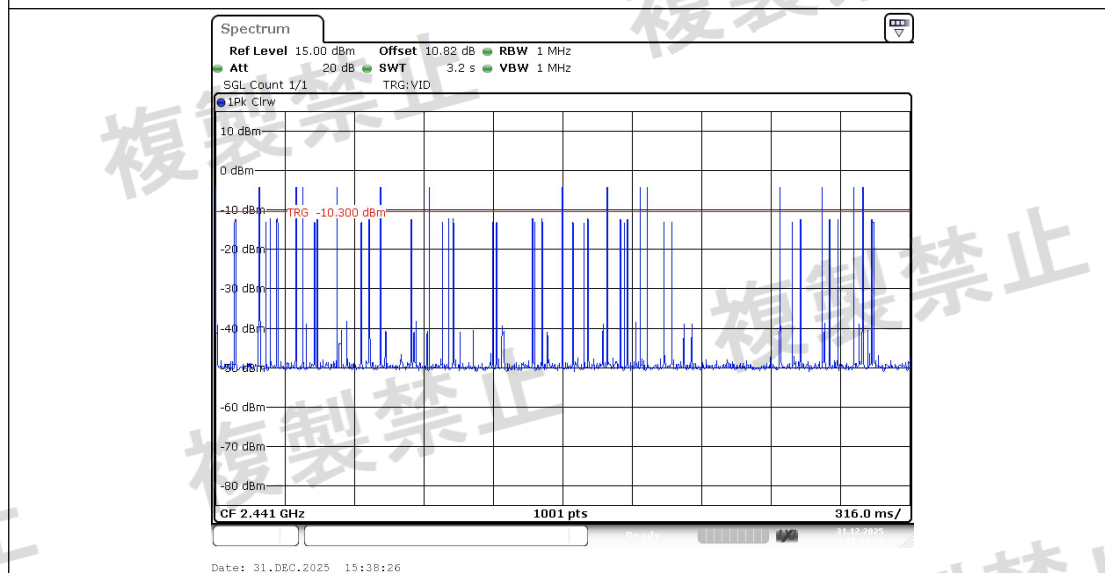
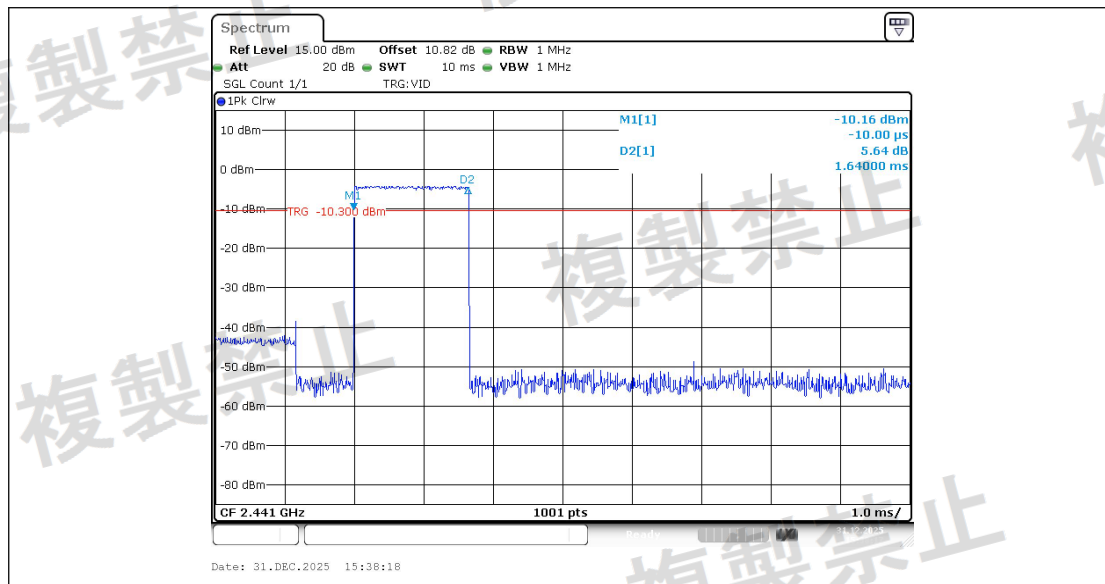




NTNV_3DH1_Ant1_Hop



NTNV_3DH3_Ant1_Hop



NTNV_3DH5_Ant1_Hop

