

Appendix RF Test Data for BR-EDR

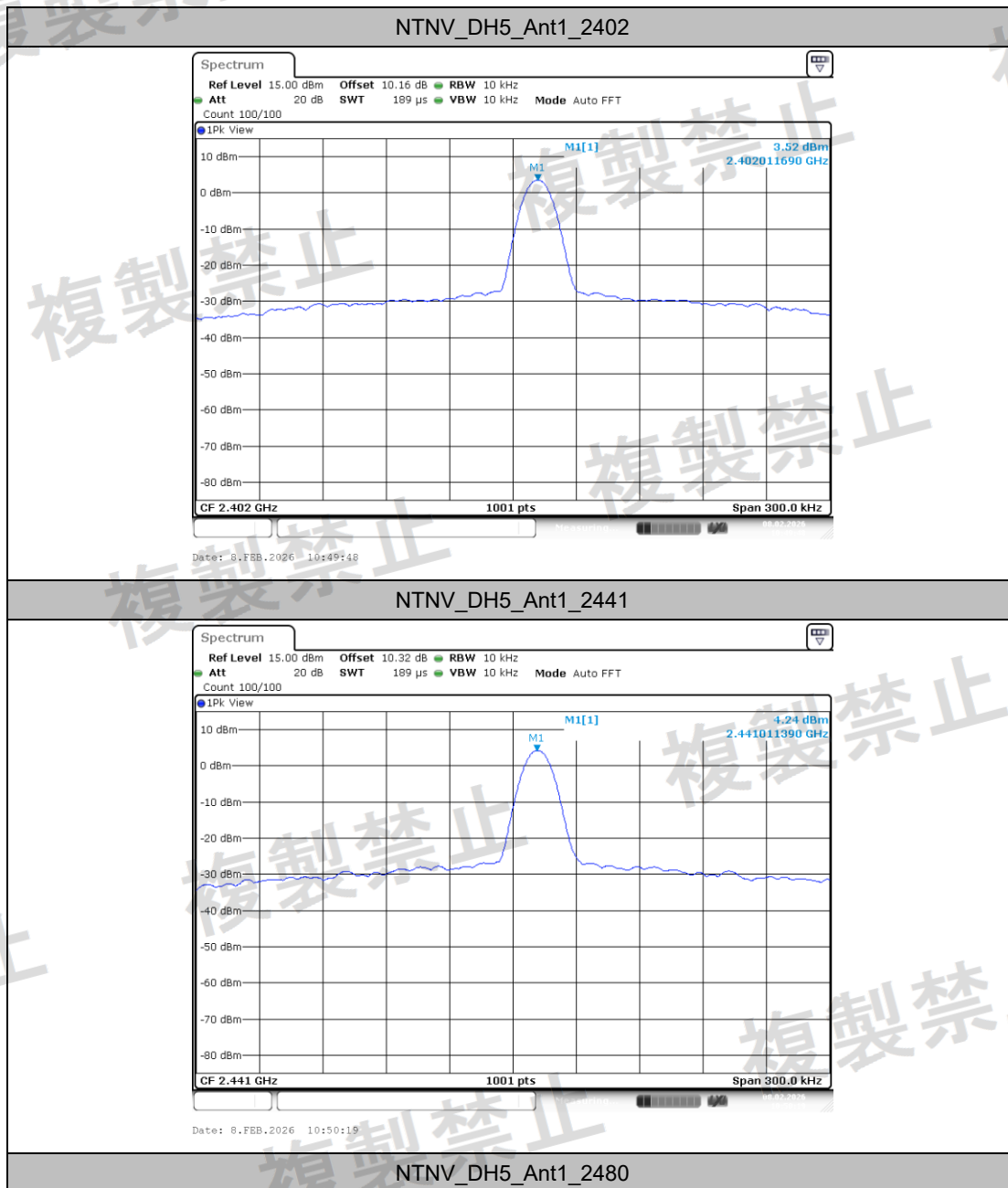
Company : Shenzhen Yufengzhixing Electronics Tech Co Ltd
EUT : Car Navigation
Model Number : S8LF1509ADM
Report No. : CTA26020202101
Reviewed By : Eric Wang

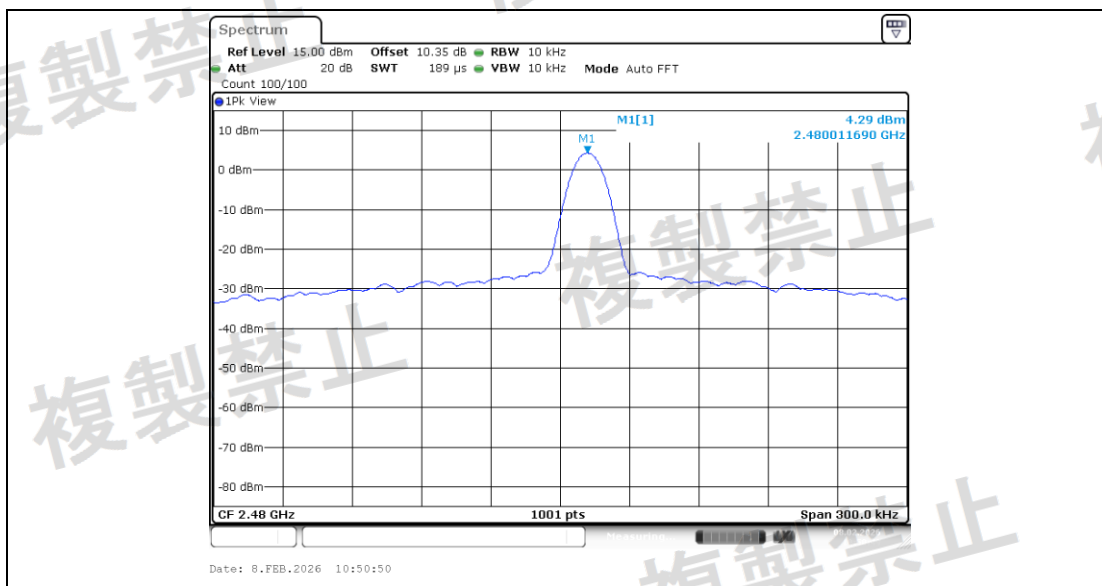
Appendix A: Frequency_Error

Test Result

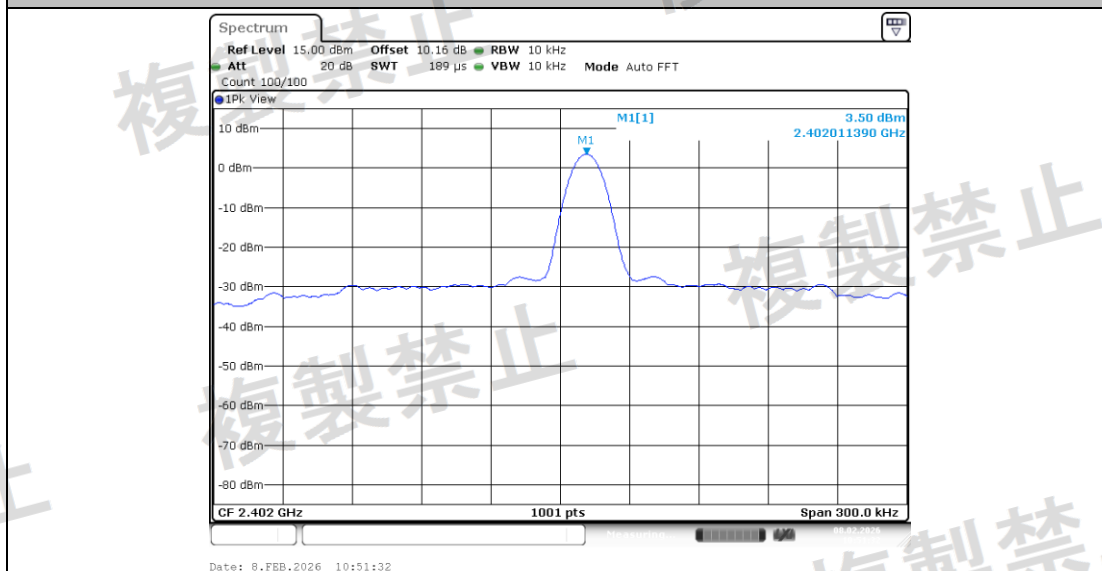
Test Condition	Test Mode	Antenna	Freq(MHz)	Result[ppm]	Limit[ppm]	Verdict
NTNV	DH5	Ant1	2402	4.86678	±50	PASS
			2441	4.66612	±50	PASS
			2480	4.71371	±50	PASS
	2DH5	Ant1	2402	4.74188	±50	PASS
			2441	4.66612	±50	PASS
			2480	4.59274	±50	PASS
	3DH5	Ant1	2402	4.49209	±50	PASS
			2441	4.66612	±50	PASS
			2480	4.59274	±50	PASS

Test Graphs

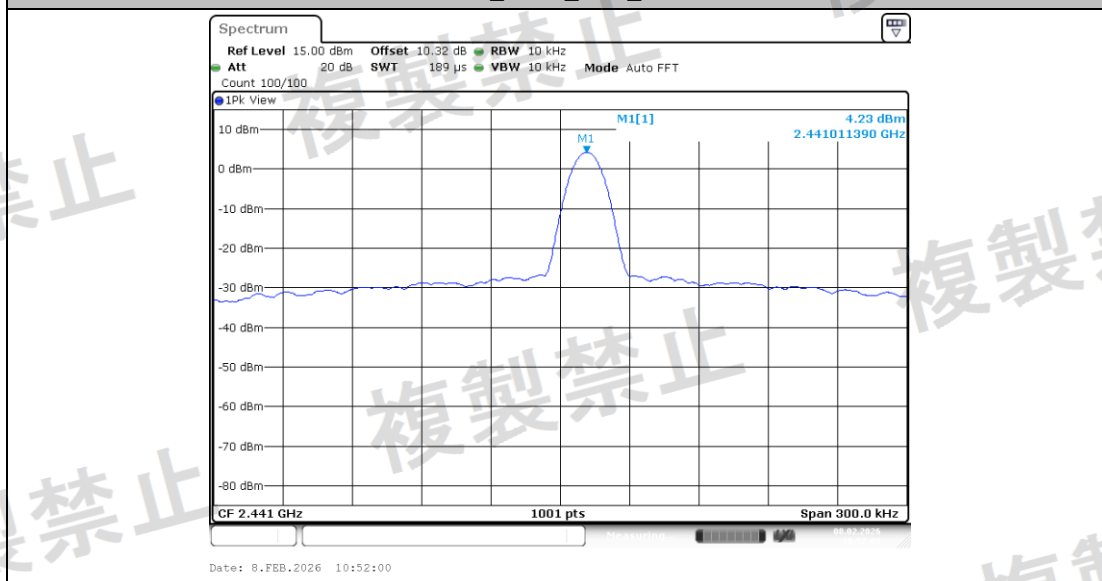


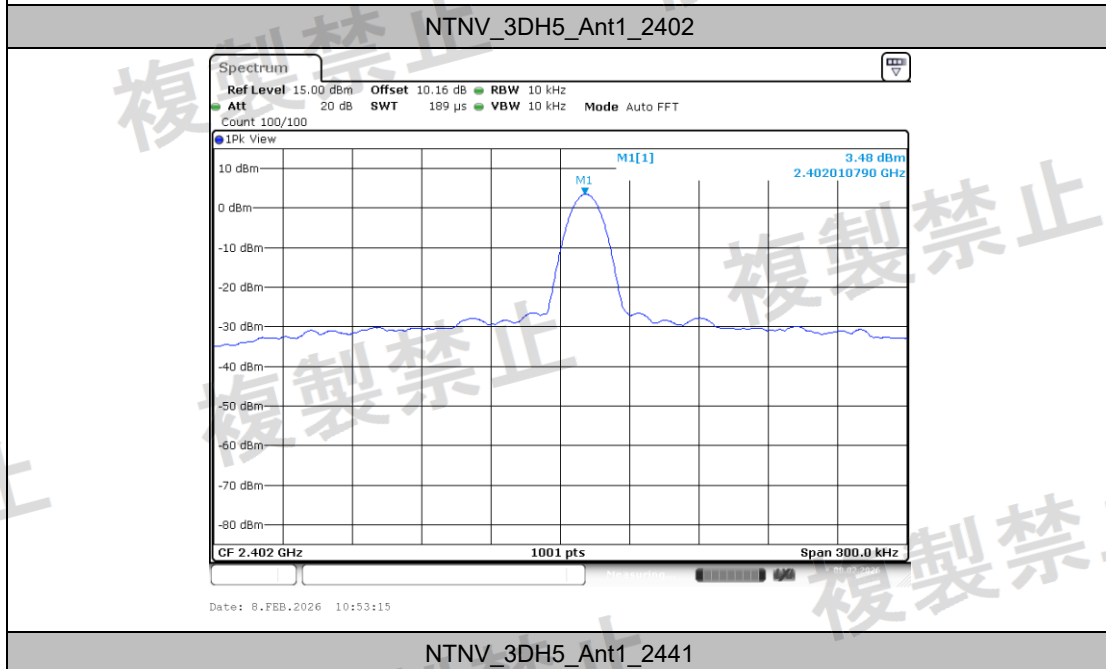
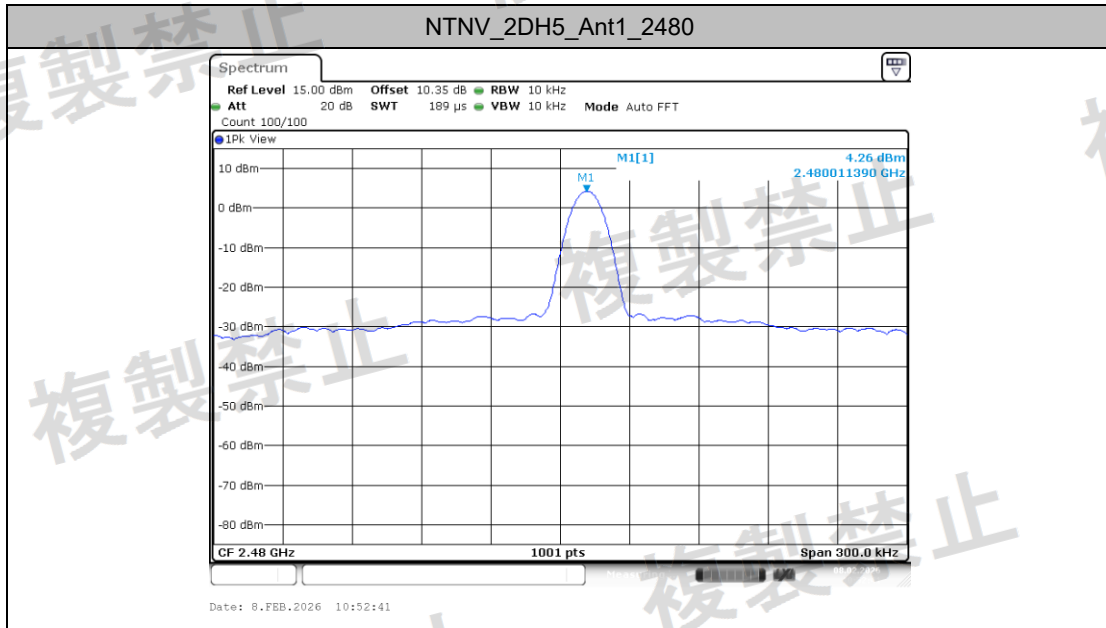


NTNV_2DH5_Ant1_2402

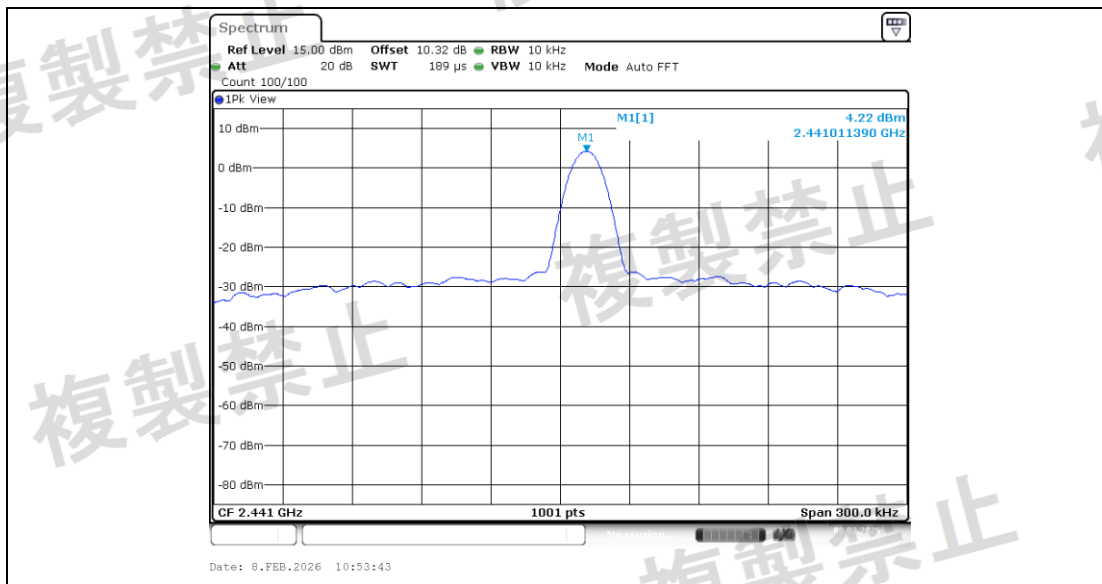


NTNV_2DH5_Ant1_2441

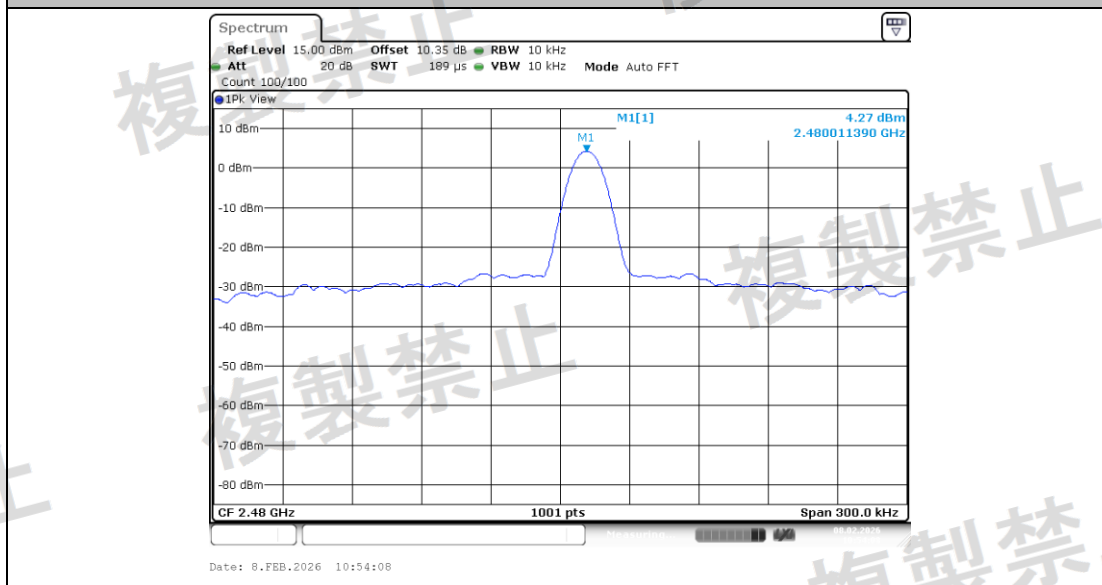




NTNV_3DH5_Ant1_2441



NTNV_3DH5_Ant1_2480

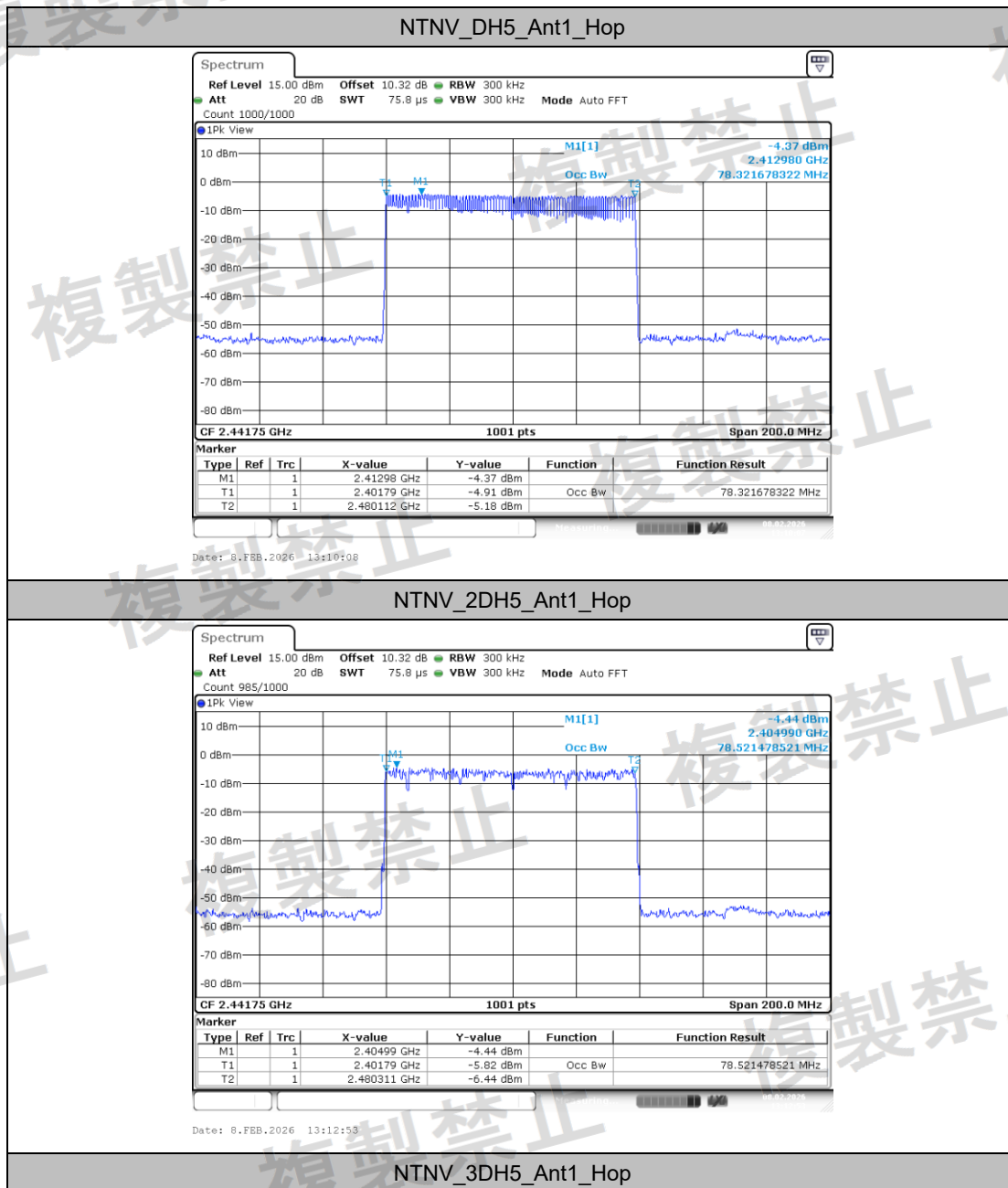


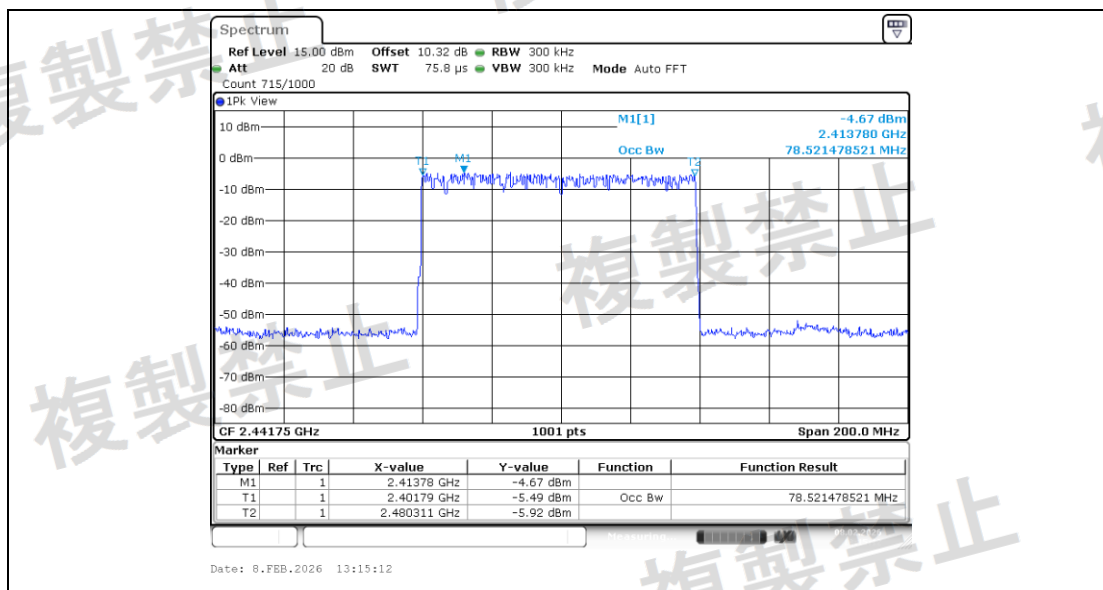
Appendix B: Occupied Bandwidth

Test Result

Test Condition	Test Mode	Antenna	Freq(MHz)	Result [MHz]	Limit [MHz]	Verdict
NTNV	DH5	Ant1	Hop	78.322	≤83.5	PASS
	2DH5	Ant1	Hop	78.521	≤83.5	PASS
	3DH5	Ant1	Hop	78.521	≤83.5	PASS

Test Graphs



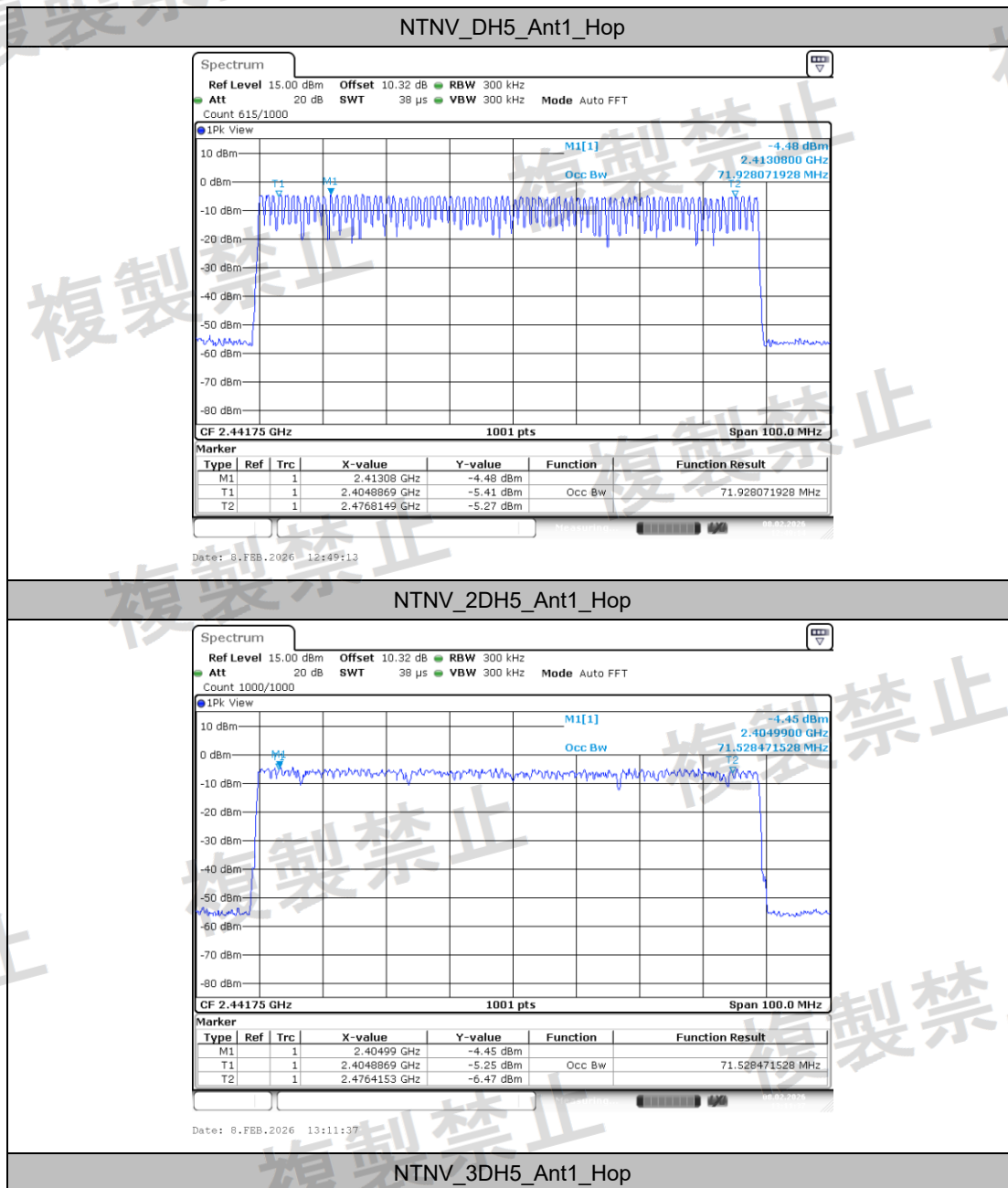


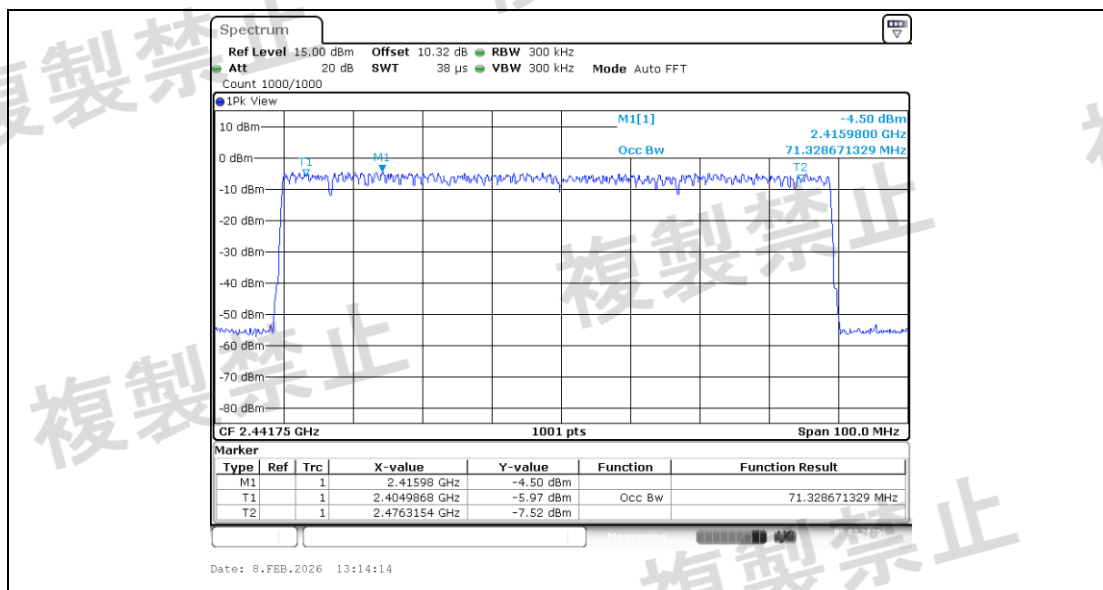
Appendix C: Spread Bandwidth

Test Result

Test Condition	Test Mode	Antenna	Freq(MHz)	Result [MHz]	Limit [MHz]	Spread Factor	Limit	Verdict
NTNV	DH5	Ant1	Hop	71.928	≥ 0.5	71.928	>5	PASS
	2DH5	Ant1	Hop	71.528	≥ 0.5	71.528	>5	PASS
	3DH5	Ant1	Hop	71.329	≥ 0.5	71.329	>5	PASS

Test Graphs





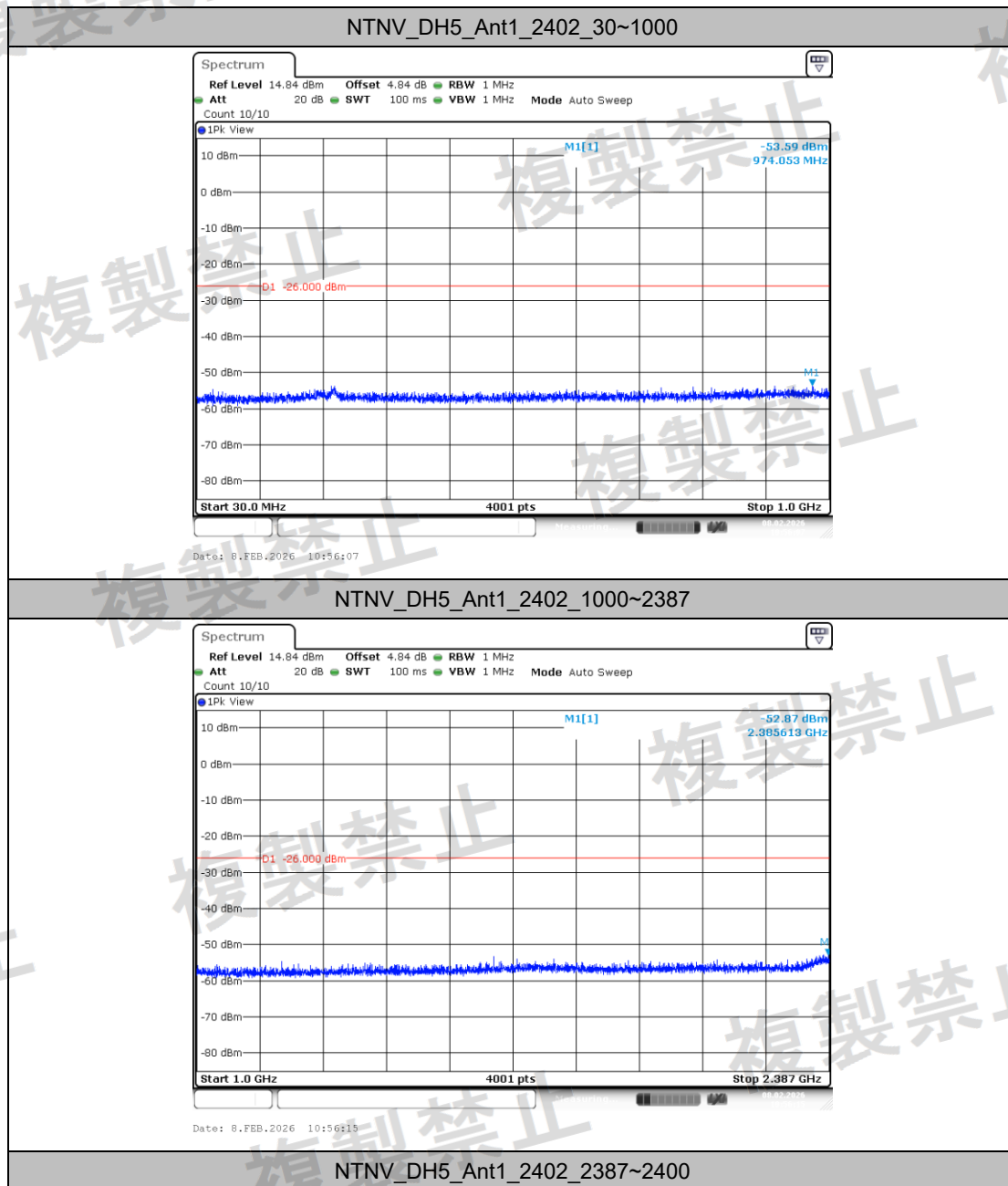
Appendix D: Spurious Emission of TX

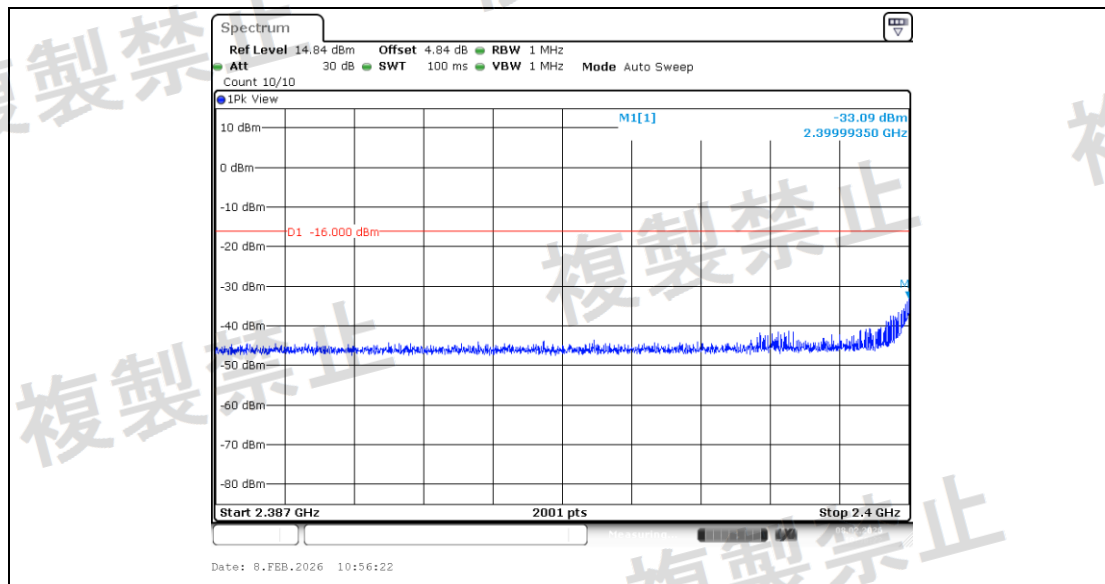
Test Result

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	974.05	-53.59	≤-26	0.00438	≤2.5	PASS
				1000~2387	2385.61	-52.87	≤-26	0.00516	≤2.5	PASS
				2387~2400	2399.99	-33.09	≤-16	0.49091	≤25	PASS
				2483.5~2496.5	2493.30	-43.68	≤-16	0.04285	≤25	PASS
				2496.5~13000	4804.12	-43.60	≤-26	0.04365	≤2.5	PASS
			2441	30~1000	900.33	-53.70	≤-26	0.00427	≤2.5	PASS
				1000~2387	2385.61	-53.91	≤-26	0.00406	≤2.5	PASS
				2387~2400	2398.07	-43.50	≤-16	0.04467	≤25	PASS
				2483.5~2496.5	2493.20	-43.31	≤-16	0.04667	≤25	PASS
				2496.5~13000	4881.84	-44.64	≤-26	0.03436	≤2.5	PASS
			2480	30~1000	216.73	-53.36	≤-26	0.00461	≤2.5	PASS
				1000~2387	2225.76	-53.94	≤-26	0.00404	≤2.5	PASS
				2387~2400	2397.38	-44.07	≤-16	0.03917	≤25	PASS
				2483.5~2496.5	2484.42	-40.46	≤-16	0.08995	≤25	PASS
				2496.5~13000	4960.10	-43.04	≤-26	0.04966	≤2.5	PASS
	2DH5	Ant1	2402	30~1000	947.14	-52.72	≤-26	0.00535	≤2.5	PASS
				1000~2387	2362.73	-53.40	≤-26	0.00457	≤2.5	PASS
				2387~2400	2400.00	-30.18	≤-16	0.95940	≤25	PASS
				2483.5~2496.5	2491.93	-43.61	≤-16	0.04355	≤25	PASS
				2496.5~13000	4804.12	-47.59	≤-26	0.01742	≤2.5	PASS
			2441	30~1000	693.24	-53.28	≤-26	0.00470	≤2.5	PASS
				1000~2387	1684.48	-54.15	≤-26	0.00385	≤2.5	PASS
				2387~2400	2387.25	-43.67	≤-16	0.04295	≤25	PASS
				2483.5~2496.5	2488.16	-44.00	≤-16	0.03981	≤25	PASS
				2496.5~13000	4881.32	-46.26	≤-26	0.02366	≤2.5	PASS
			2480	30~1000	238.31	-53.01	≤-26	0.00500	≤2.5	PASS
				1000~2387	1705.29	-54.24	≤-26	0.00377	≤2.5	PASS
				2387~2400	2393.58	-43.41	≤-16	0.04560	≤25	PASS
				2483.5~2496.5	2484.47	-42.79	≤-16	0.05260	≤25	PASS
				2496.5~13000	5194.85	-45.22	≤-26	0.03006	≤2.5	PASS
	3DH5	Ant1	2402	30~1000	946.89	-53.29	≤-26	0.00469	≤2.5	PASS
				1000~2387	1280.87	-53.66	≤-26	0.00431	≤2.5	PASS
				2387~2400	2388.95	-43.79	≤-16	0.04178	≤25	PASS
				2483.5~2496.5	2483.86	-42.49	≤-16	0.05636	≤25	PASS
				2496.5~13000	4960.10	-45.86	≤-26	0.02594	≤2.5	PASS
			2441	30~1000	857.65	-53.86	≤-26	0.00411	≤2.5	PASS
				1000~2387	1917.85	-54.04	≤-26	0.00394	≤2.5	PASS

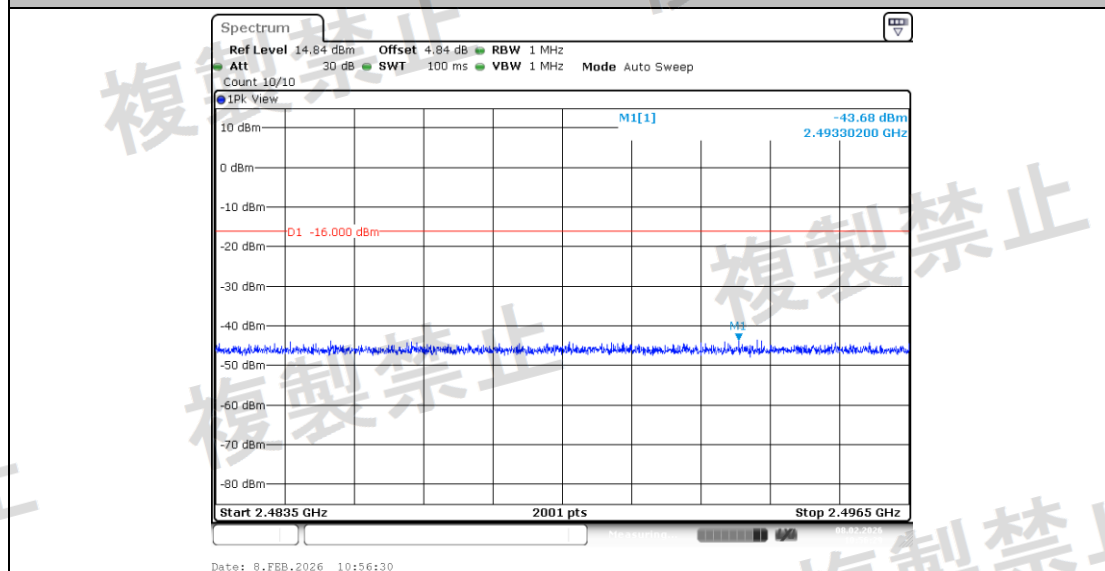
				2387~2400	2397.86	-43.82	≤-16	0.04150	≤25	PASS
				2483.5~2496.5	2487.59	-43.48	≤-16	0.04487	≤25	PASS
				2496.5~13000	4881.84	-47.53	≤-26	0.01766	≤2.5	PASS
			2480	30~1000	238.55	-52.65	≤-26	0.00543	≤2.5	PASS
				1000~2387	1589.82	-53.99	≤-26	0.00399	≤2.5	PASS
				2387~2400	2390.27	-43.85	≤-16	0.04121	≤25	PASS
				2483.5~2496.5	2484.62	-42.88	≤-16	0.05152	≤25	PASS
				2496.5~13000	4959.57	-46.49	≤-26	0.02244	≤2.5	PASS

Test Graphs

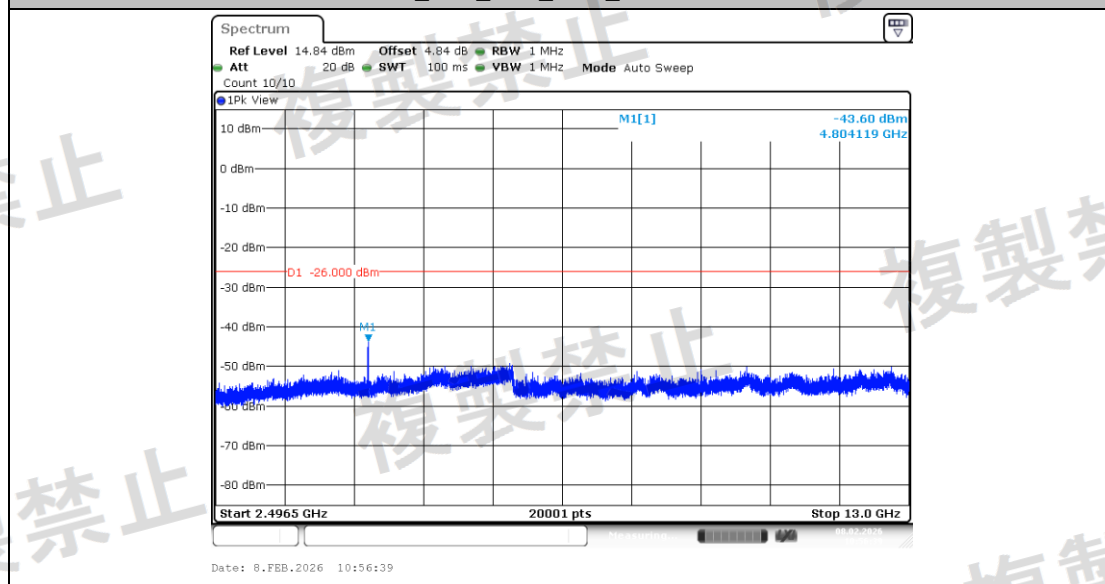


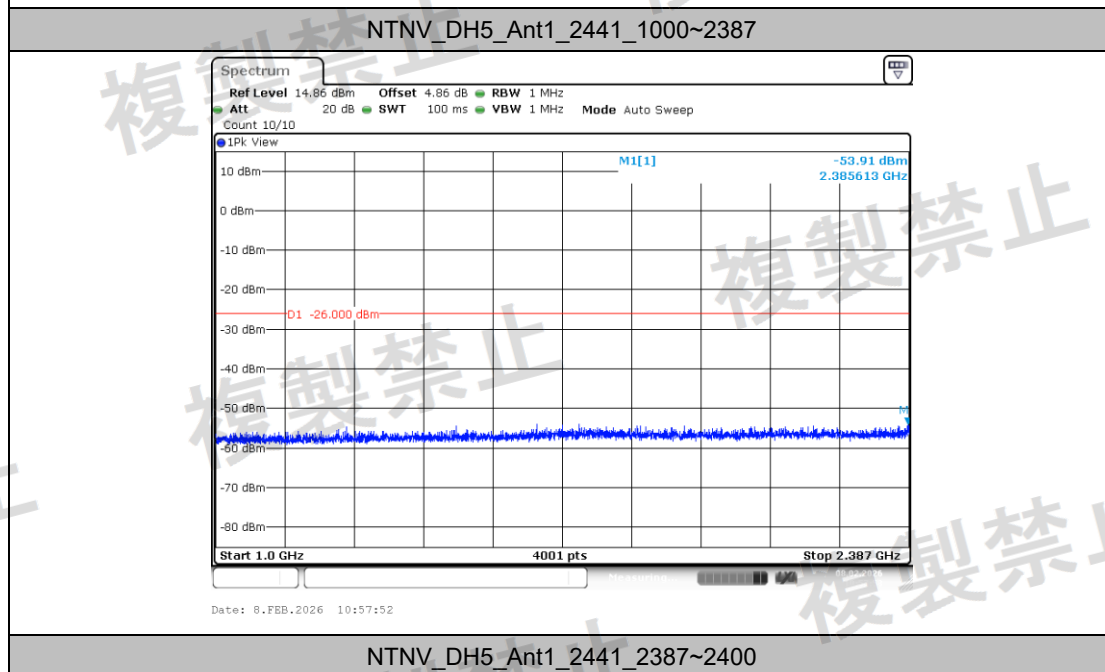
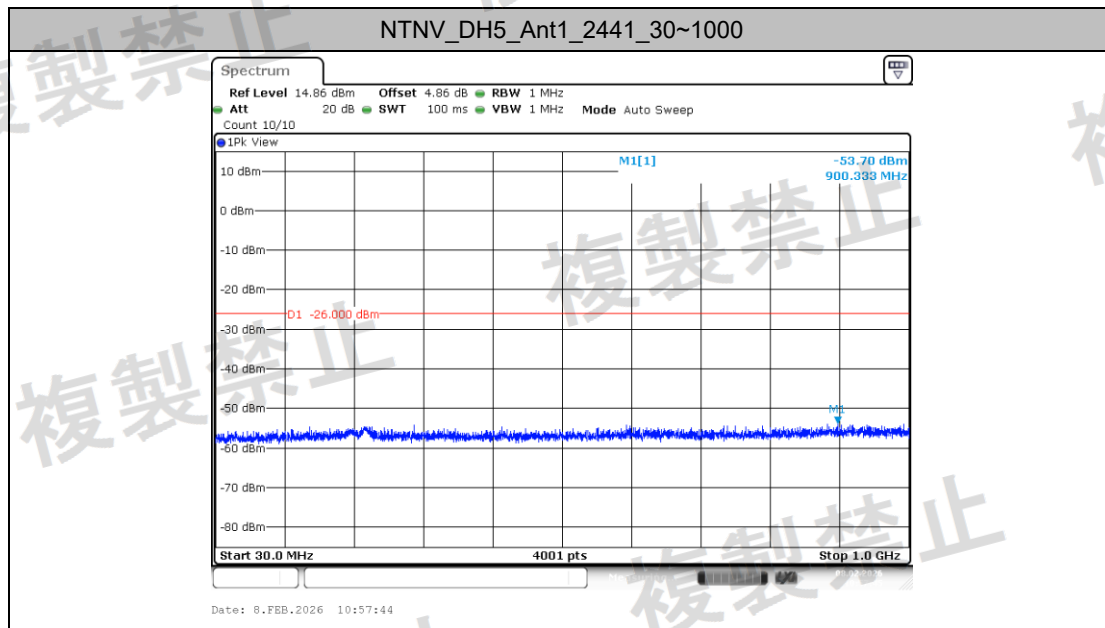


NTNV_DH5_Ant1_2402_2483.5~2496.5

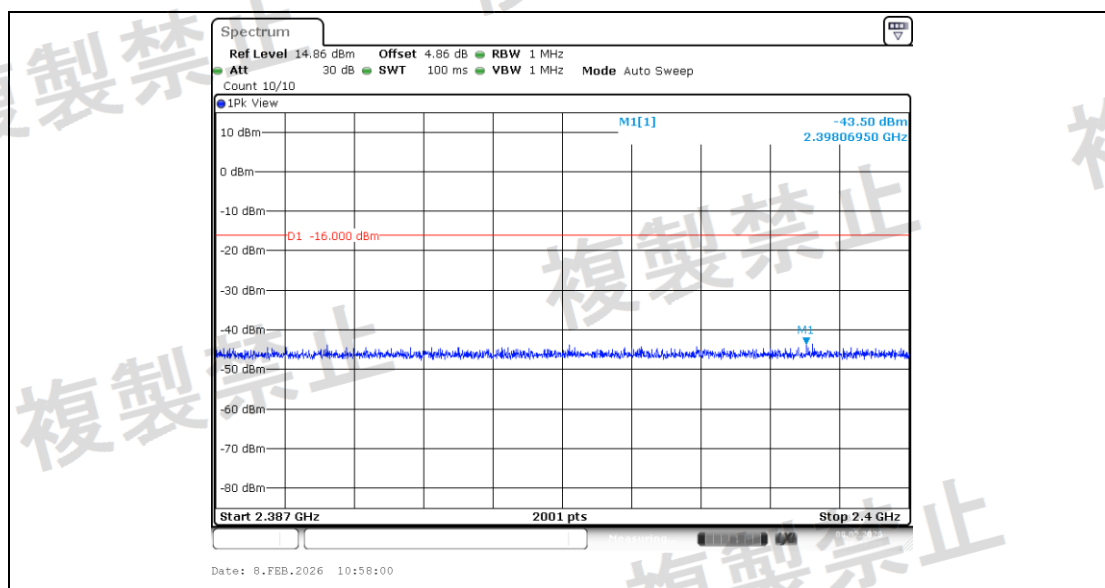


NTNV_DH5_Ant1_2402_2496.5~13000

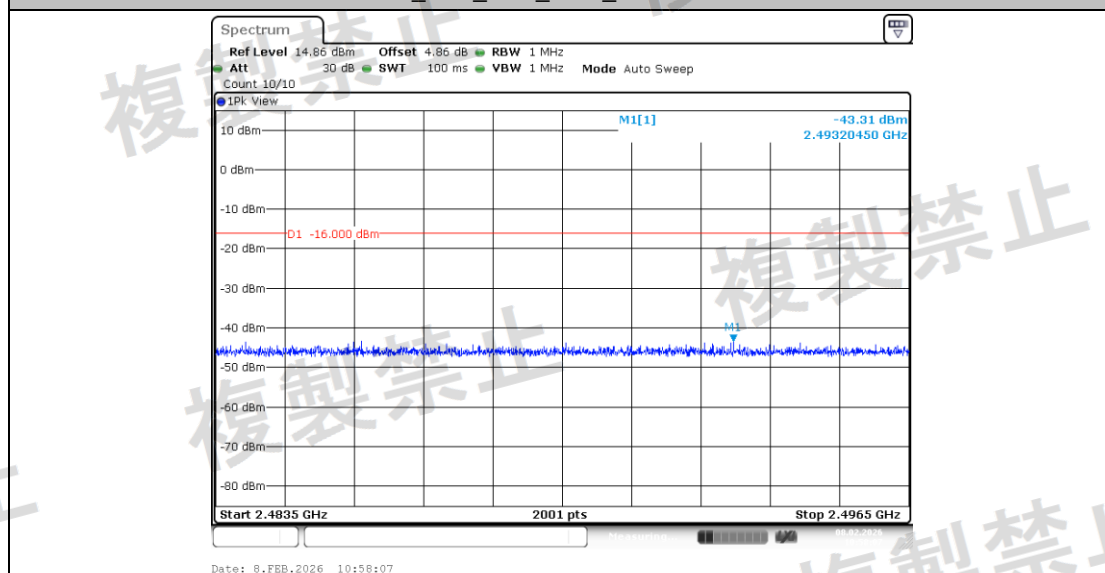




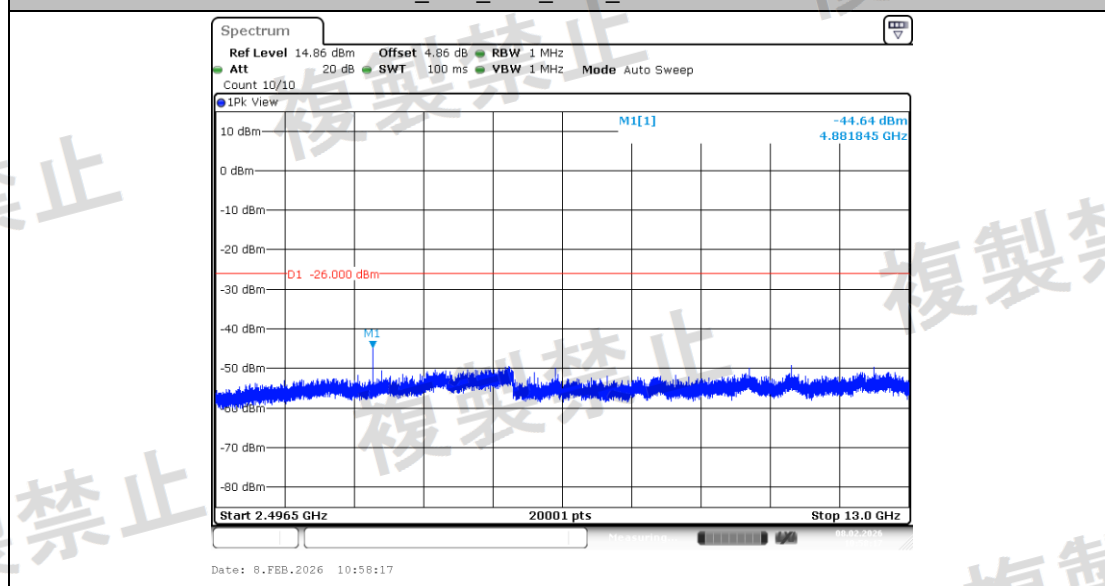
NTNV_DH5_Ant1_2441_2387~2400

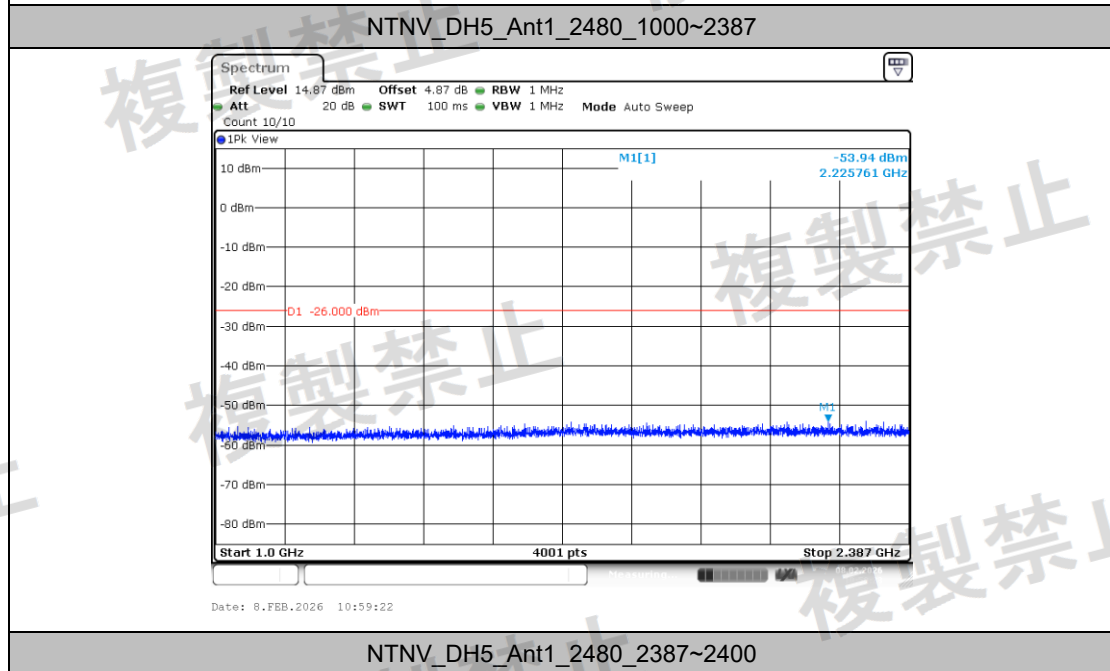
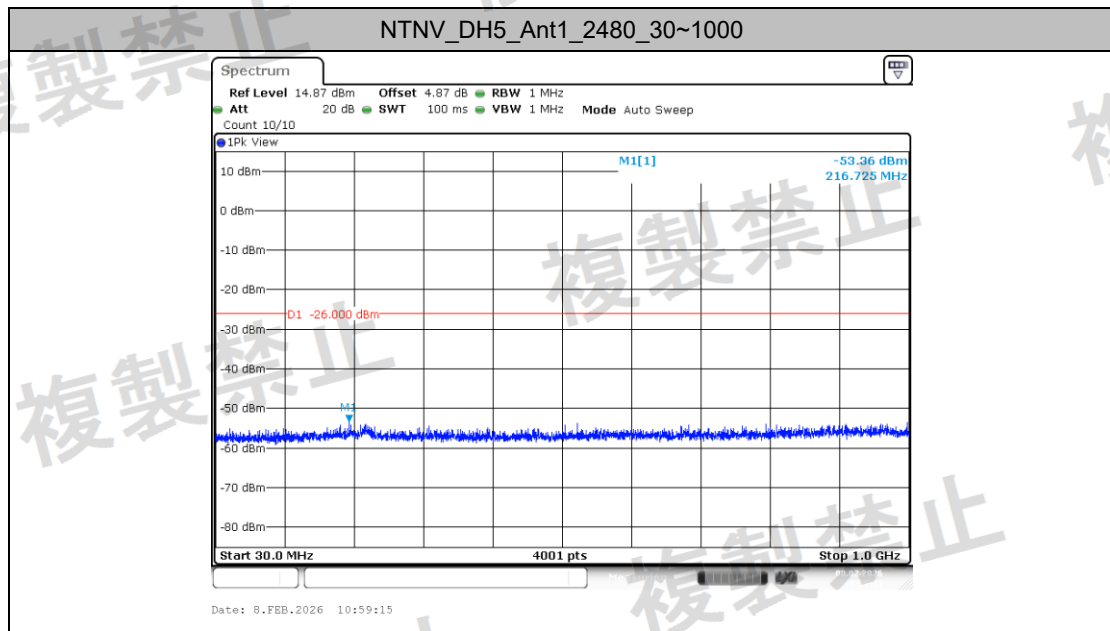


NTNV_DH5_Ant1_2441_2483.5~2496.5

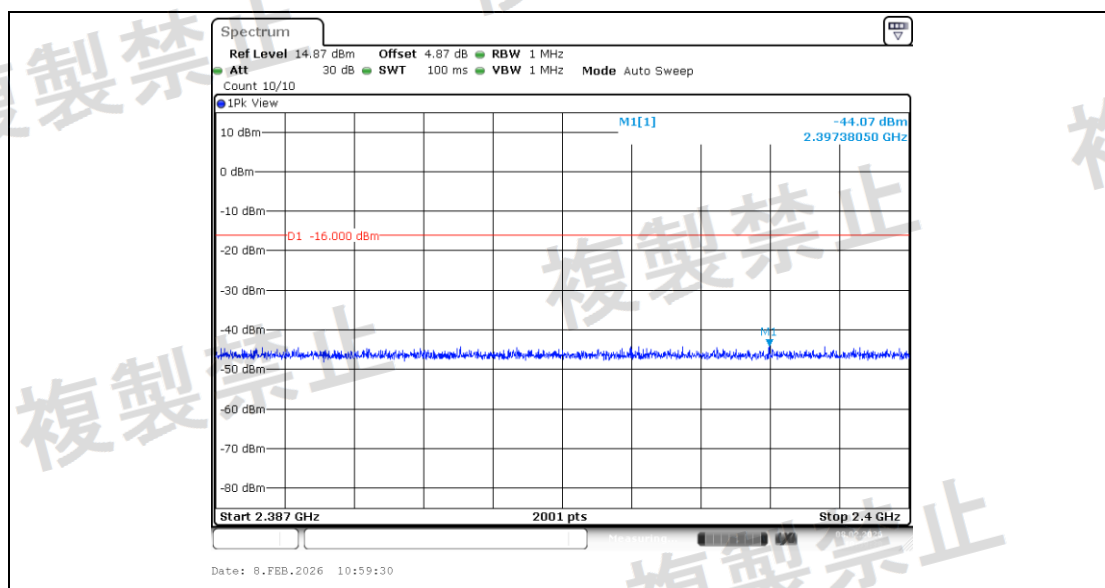


NTNV_DH5_Ant1_2441_2496.5~13000

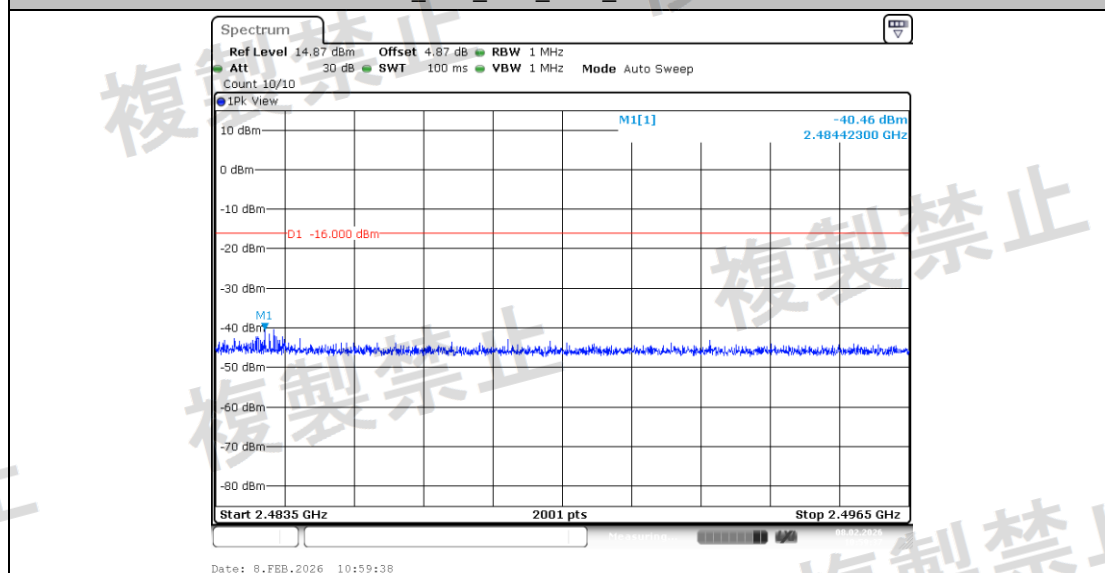




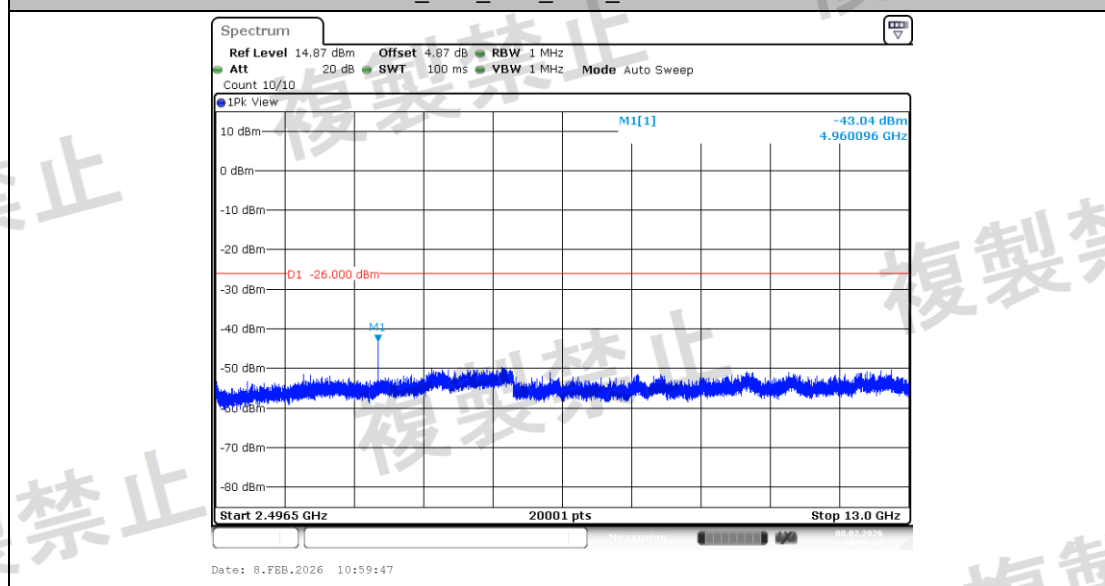
NTNV_DH5_Ant1_2480_2387~2400

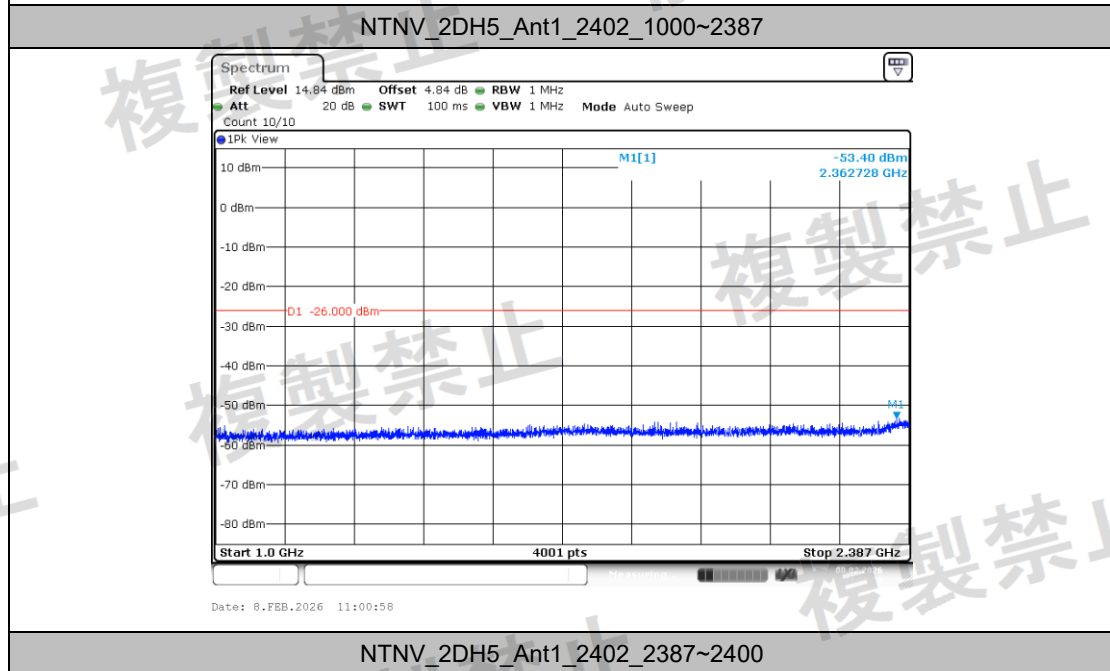
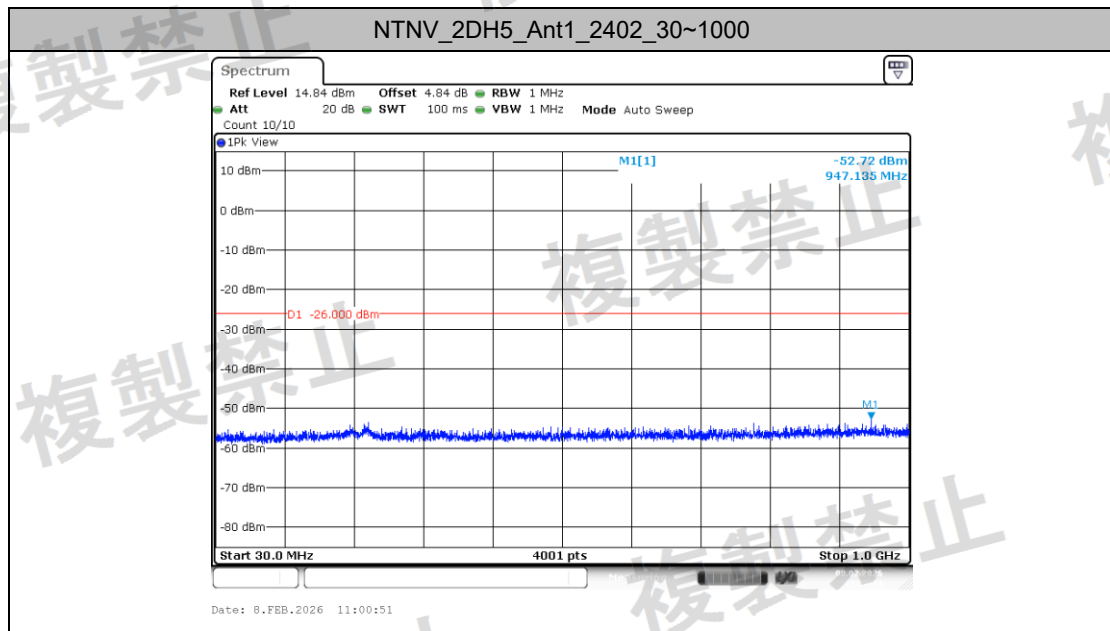


NTNV_DH5_Ant1_2480_2483.5~2496.5

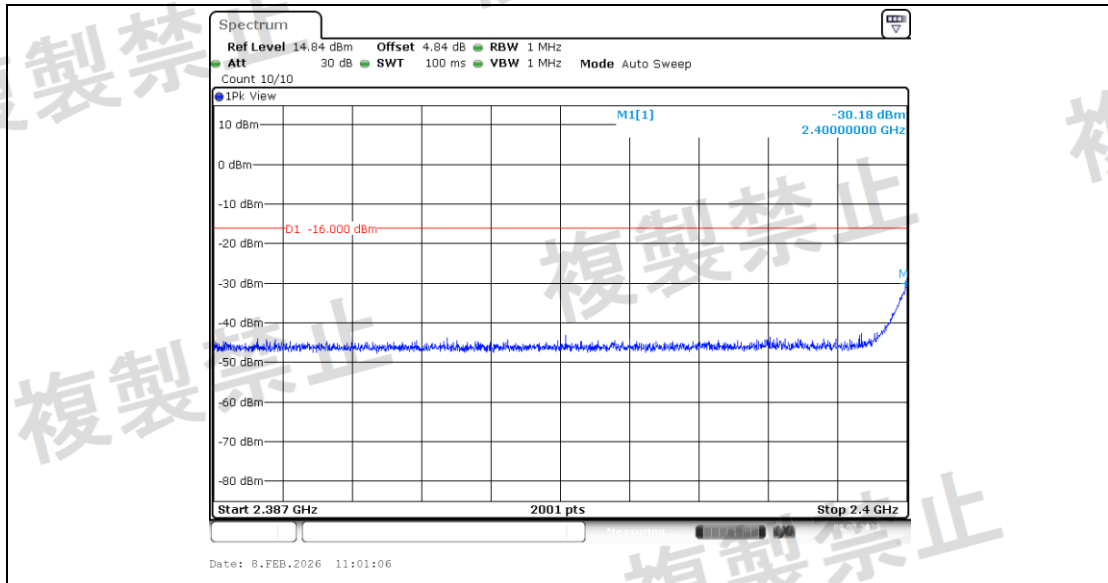


NTNV_DH5_Ant1_2480_2496.5~13000

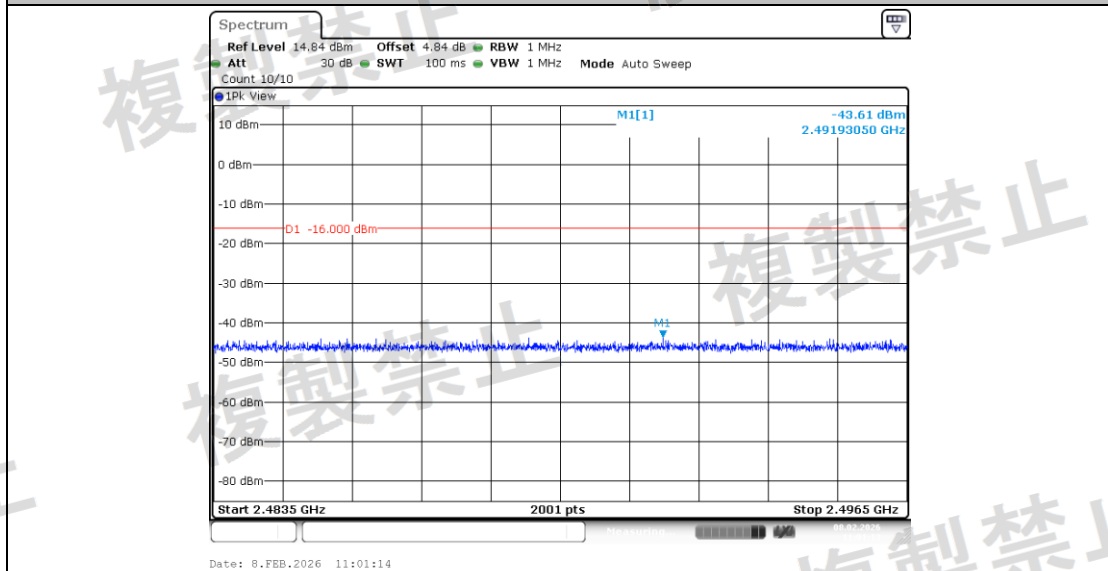




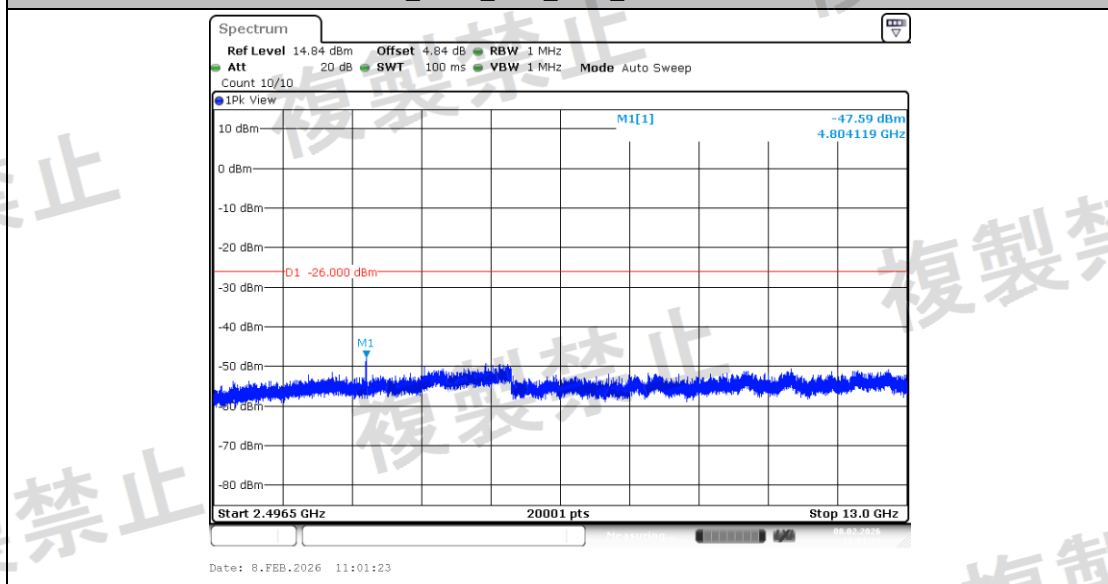
NTNV_2DH5_Ant1_2402_2387~2400

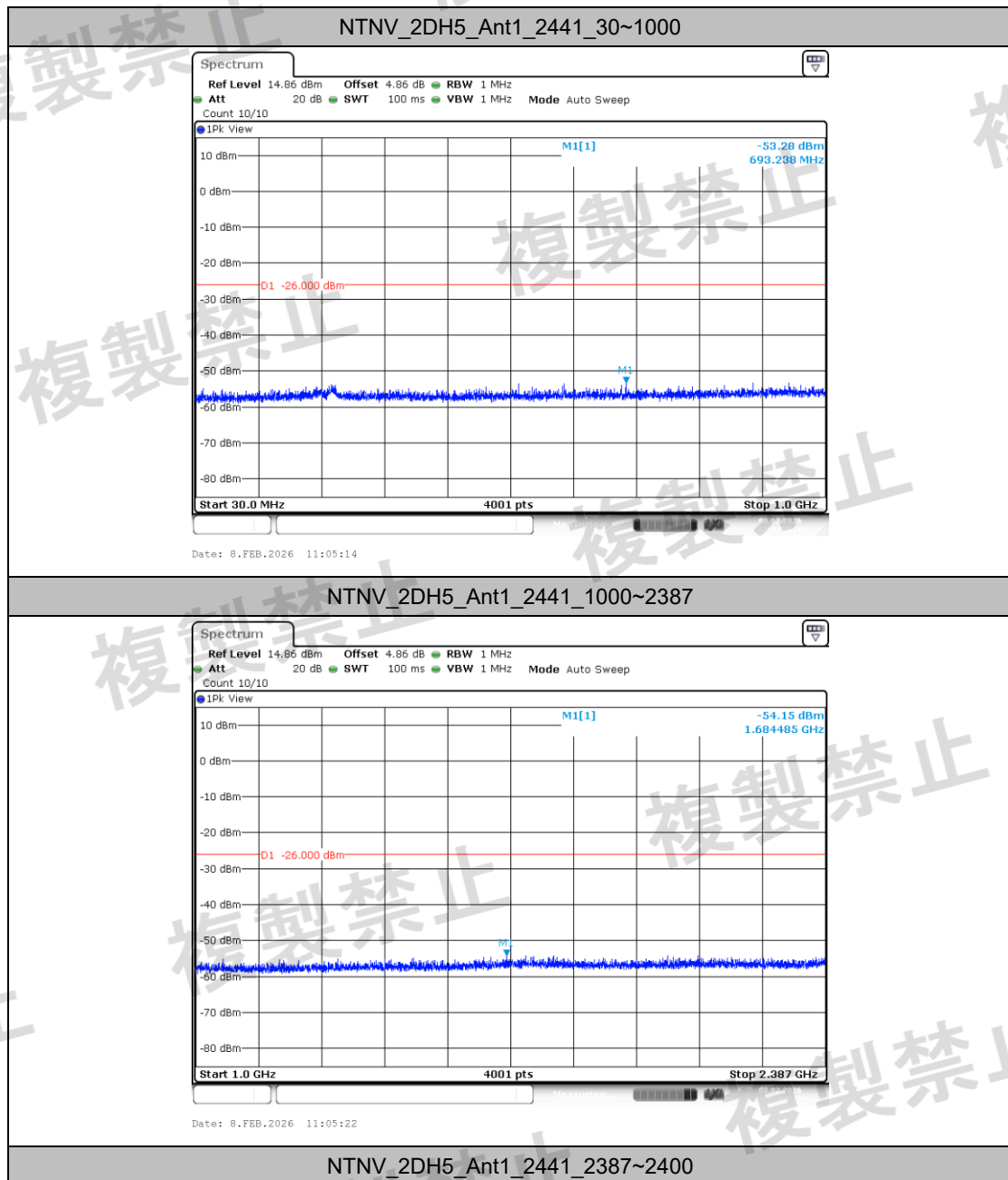


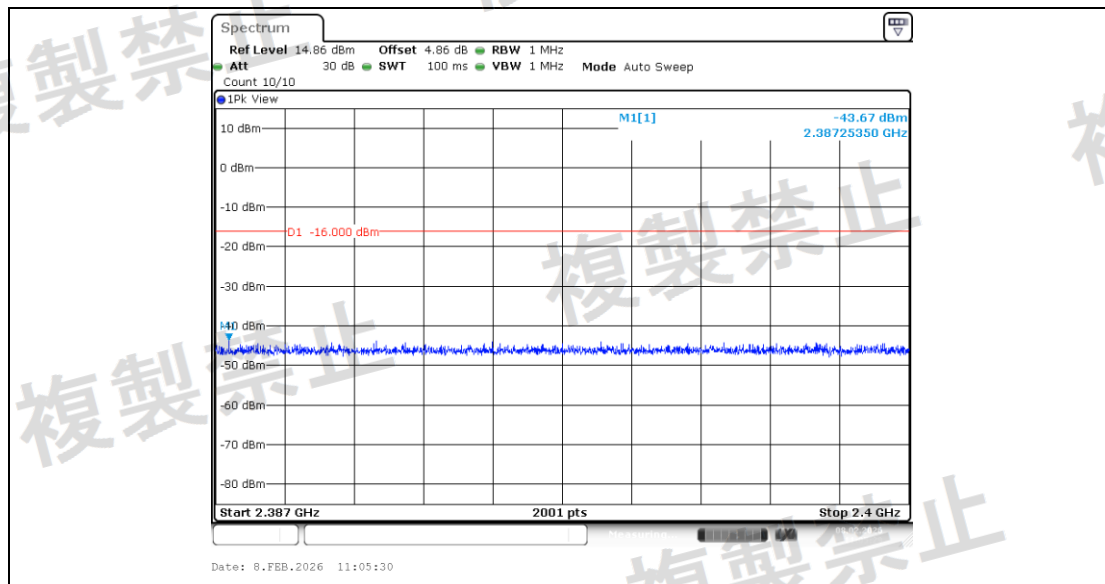
NTNV_2DH5_Ant1_2402_2483.5~2496.5



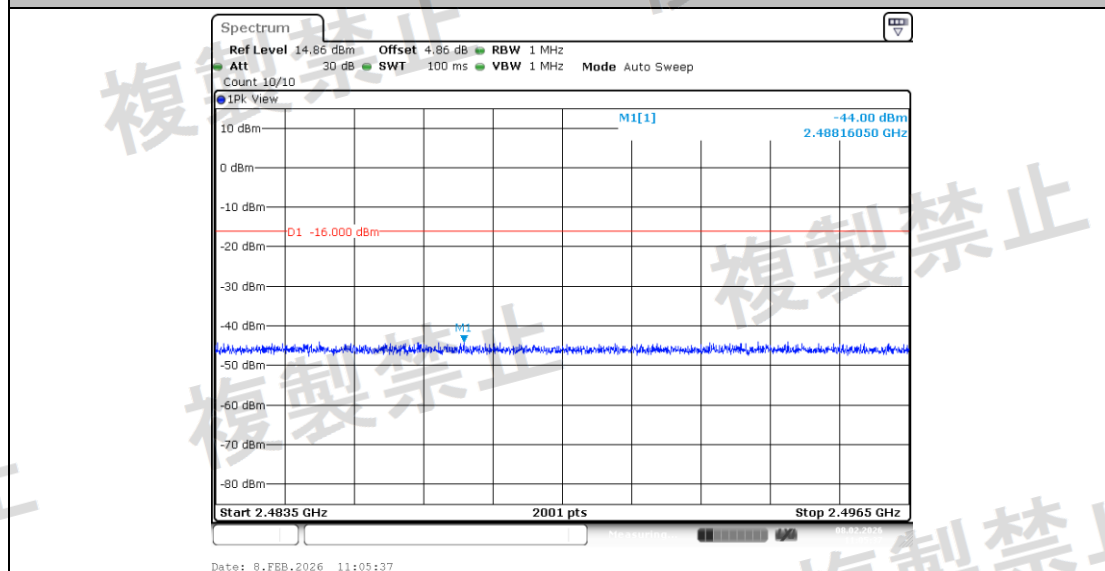
NTNV_2DH5_Ant1_2402_2496.5~13000



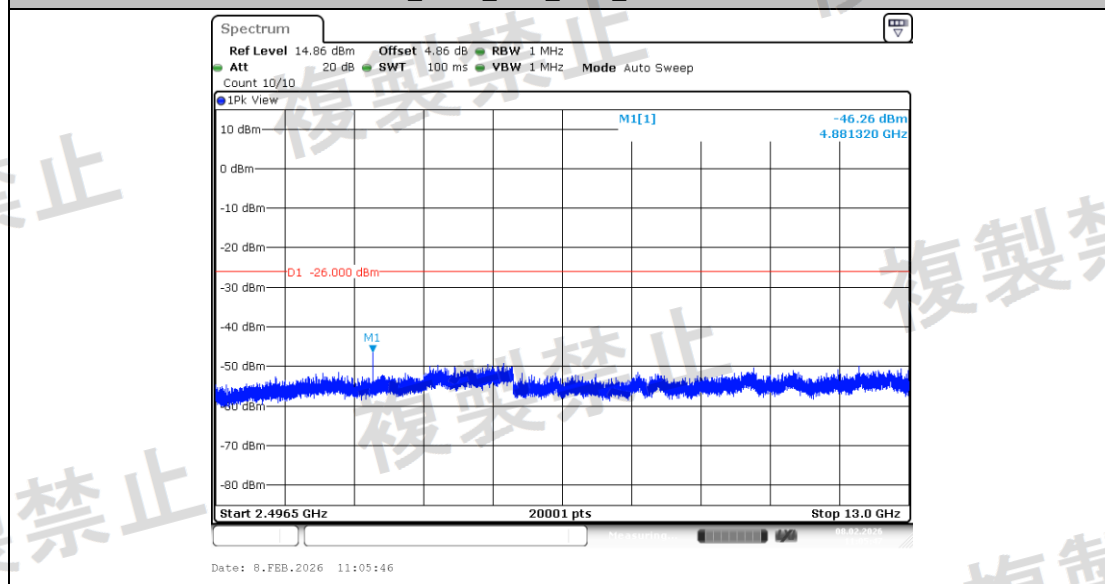


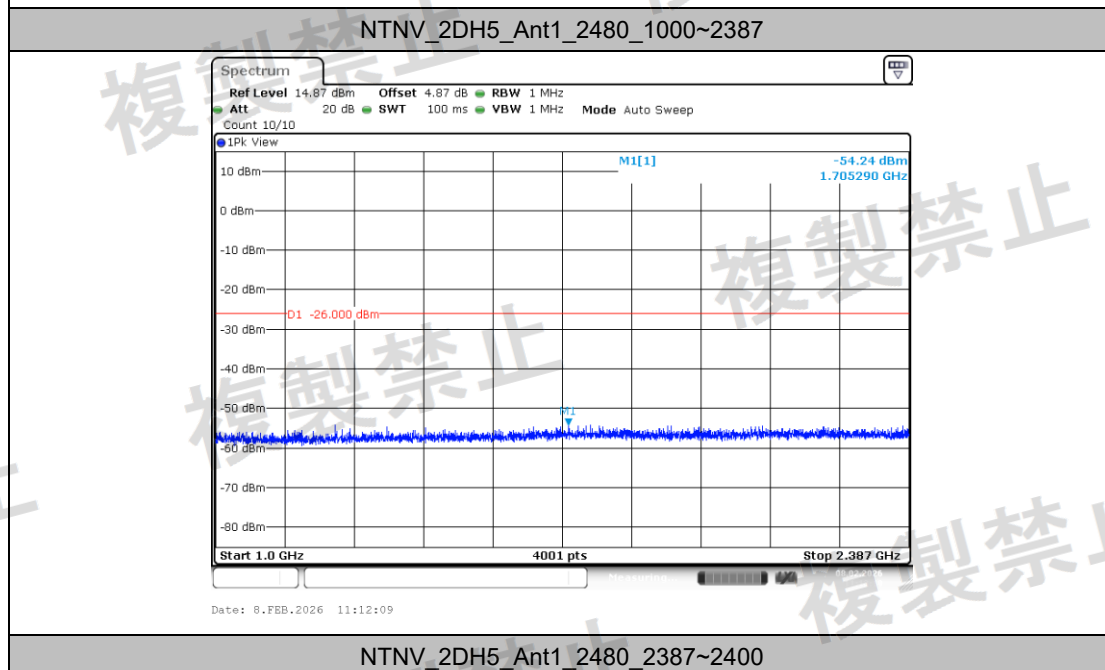
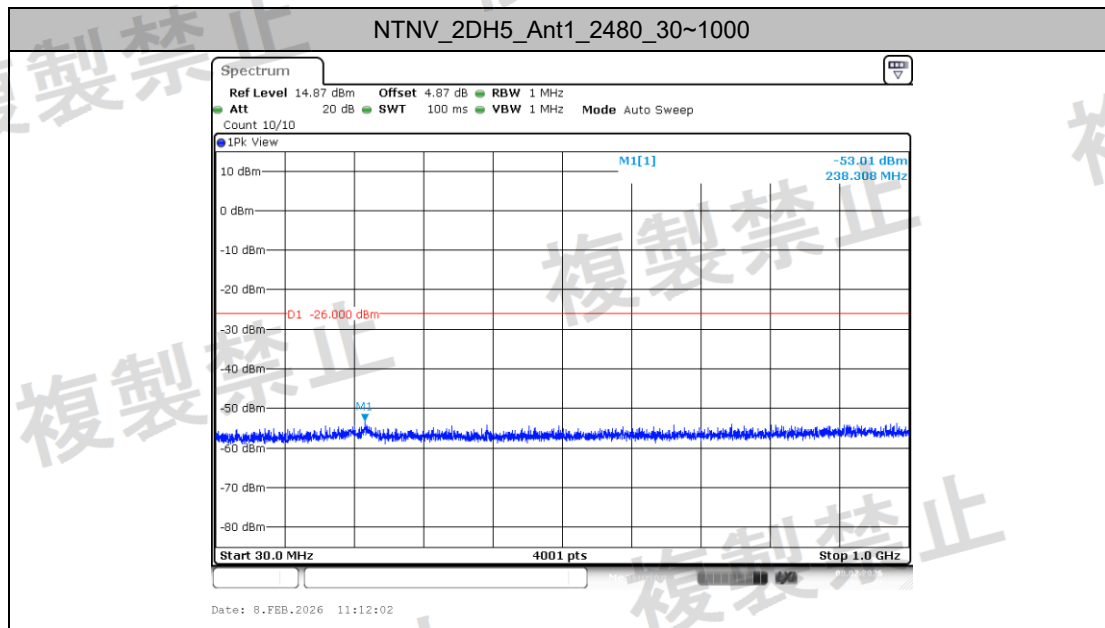


NTVN_2DH5_Ant1_2441_2483.5~2496.5

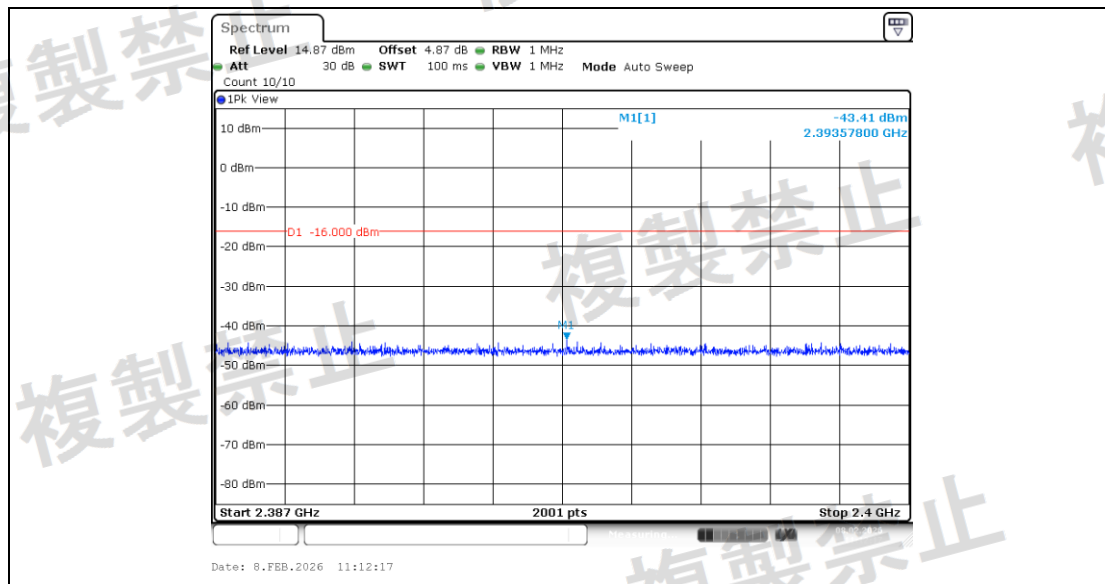


NTVN_2DH5_Ant1_2441_2496.5~13000

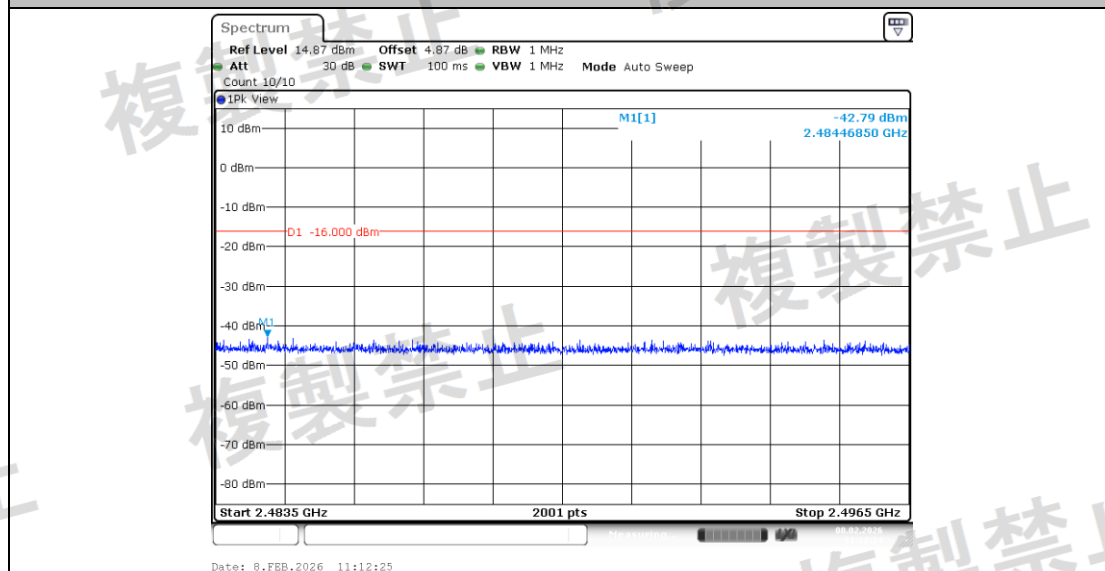




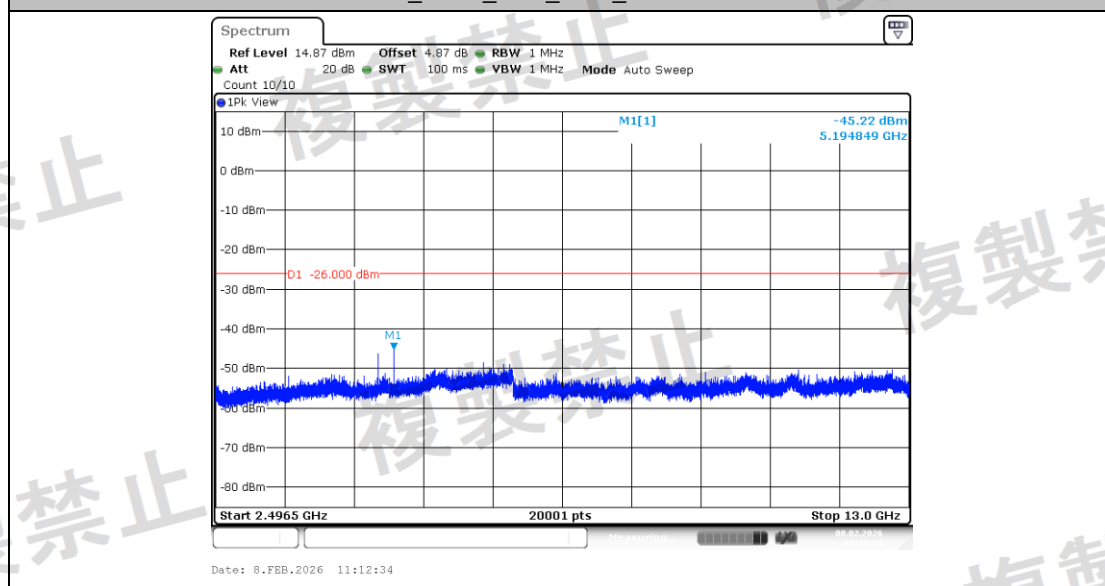
NTNV_2DH5_Ant1_2480_2387~2400

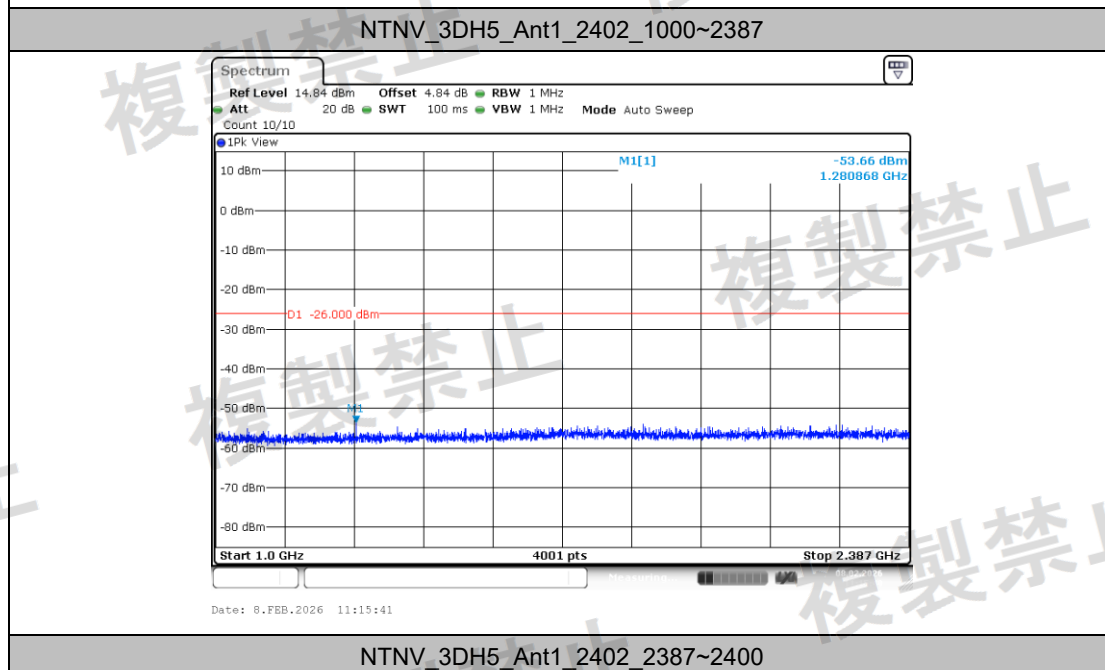
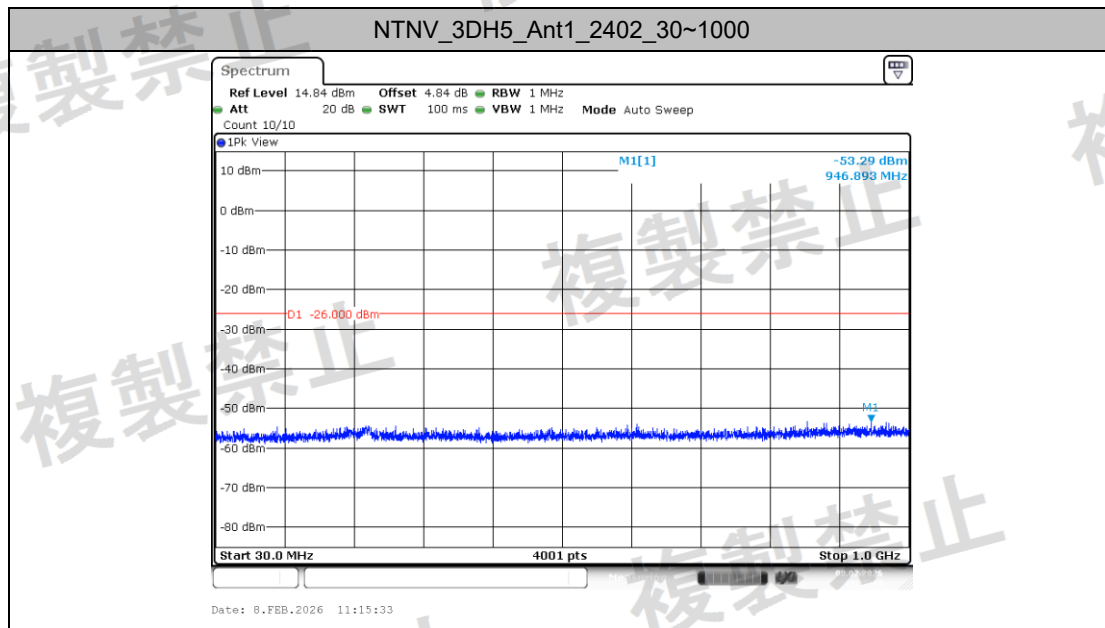


NTVN_2DH5_Ant1_2480_2483.5~2496.5

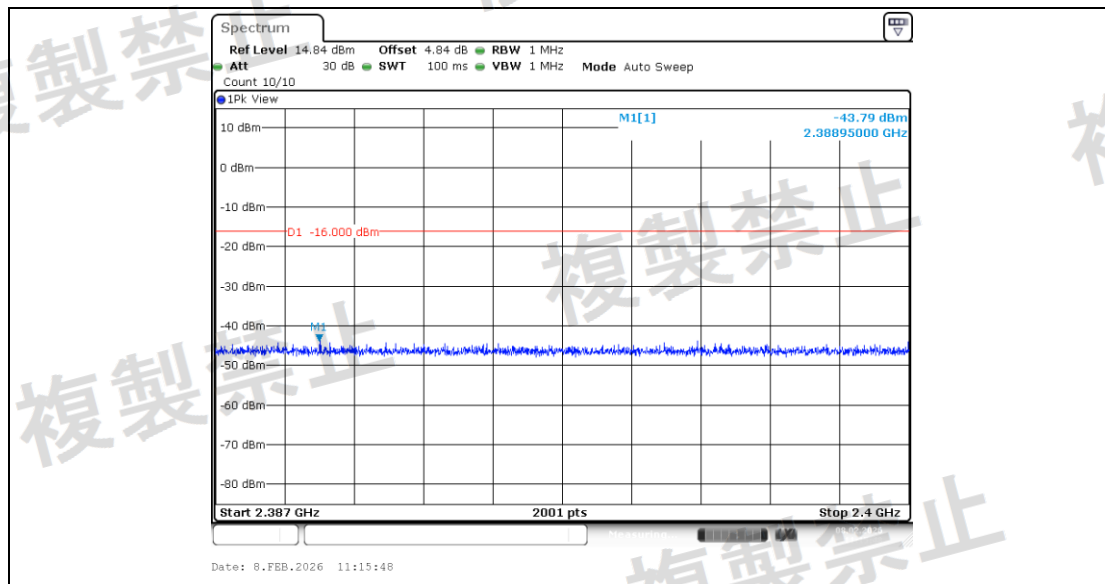


NTVN_2DH5_Ant1_2480_2496.5~13000

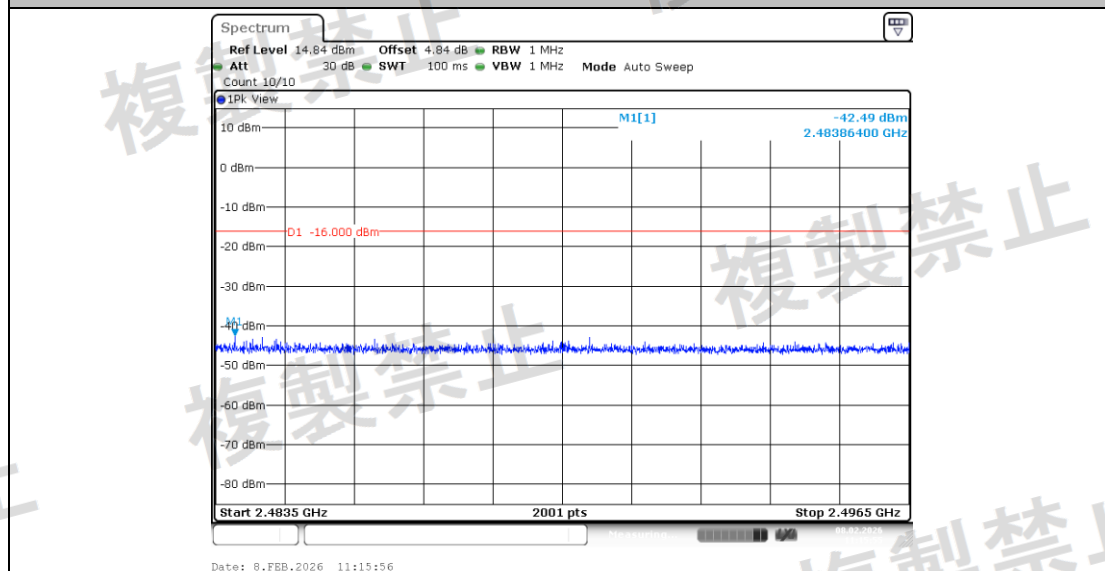




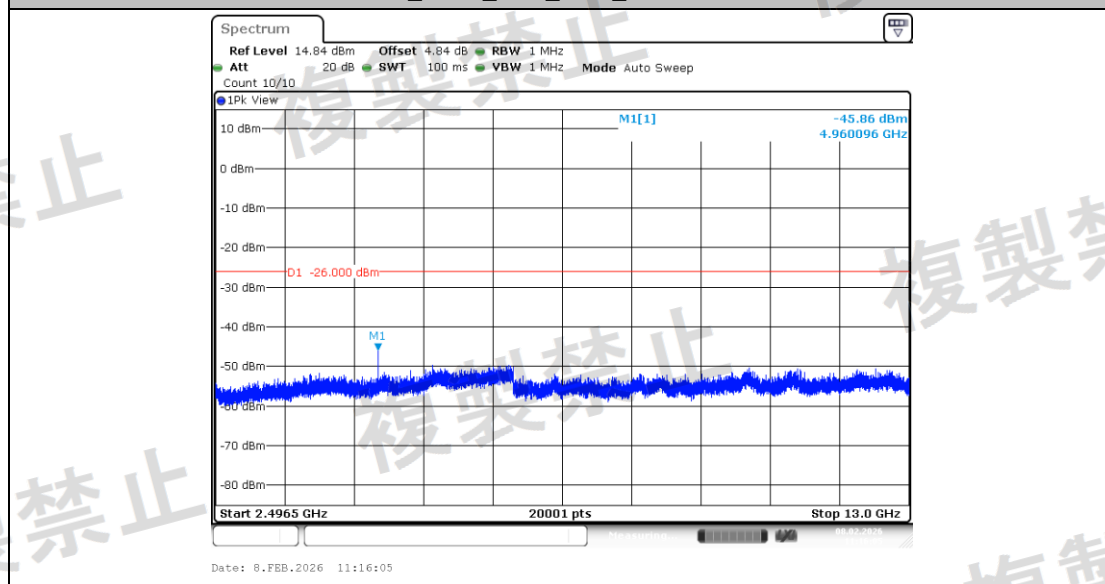
NTNV_3DH5_Ant1_2402_2387~2400

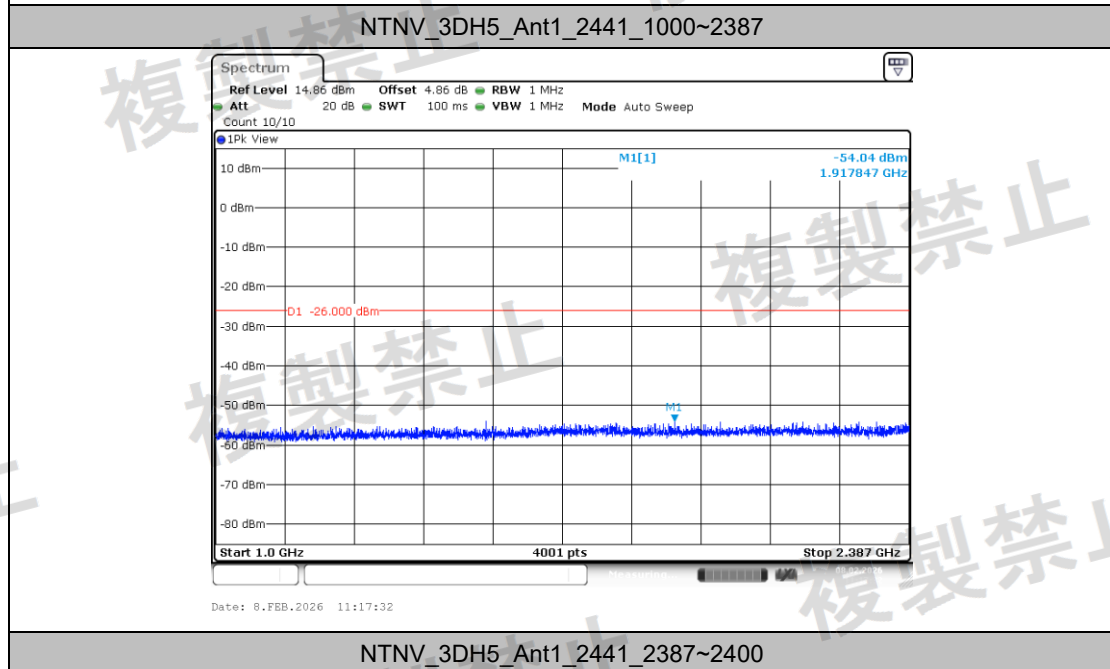
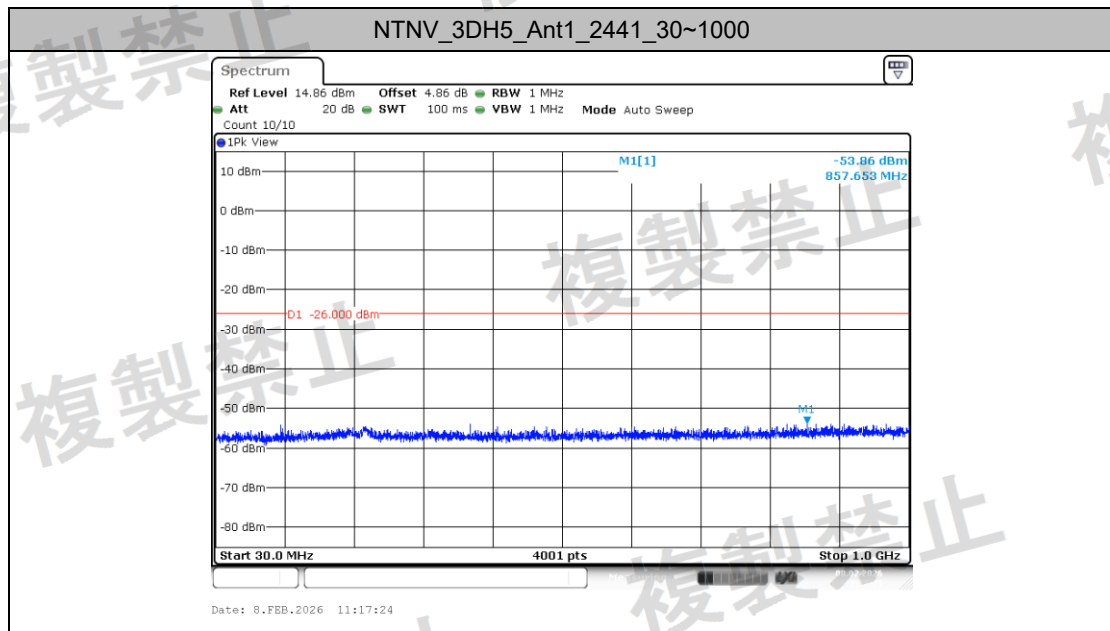


NTVN_3DH5_Ant1_2402_2483.5~2496.5

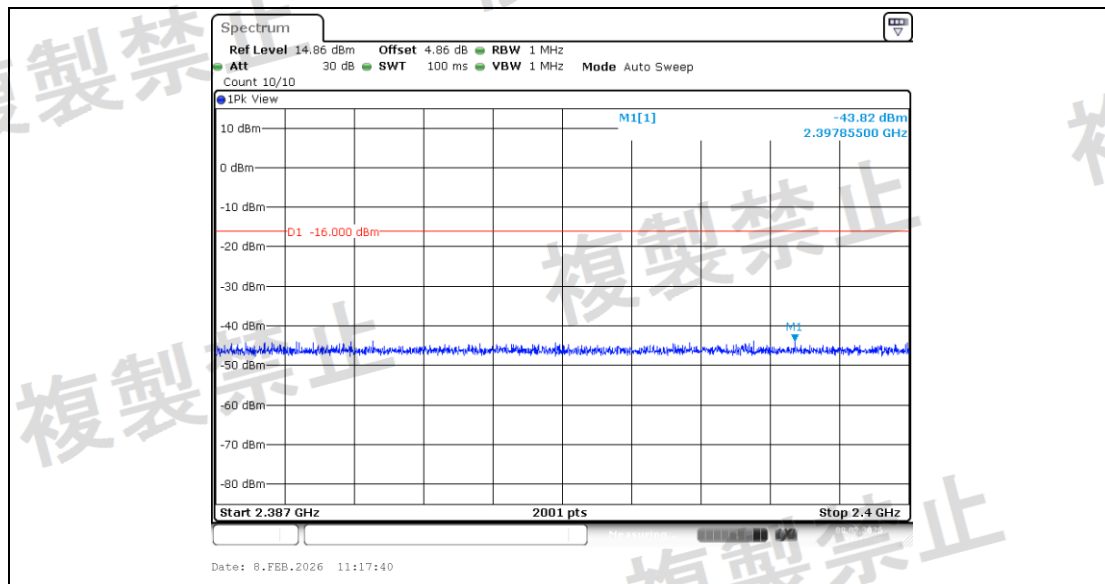


NTVN_3DH5_Ant1_2402_2496.5~13000

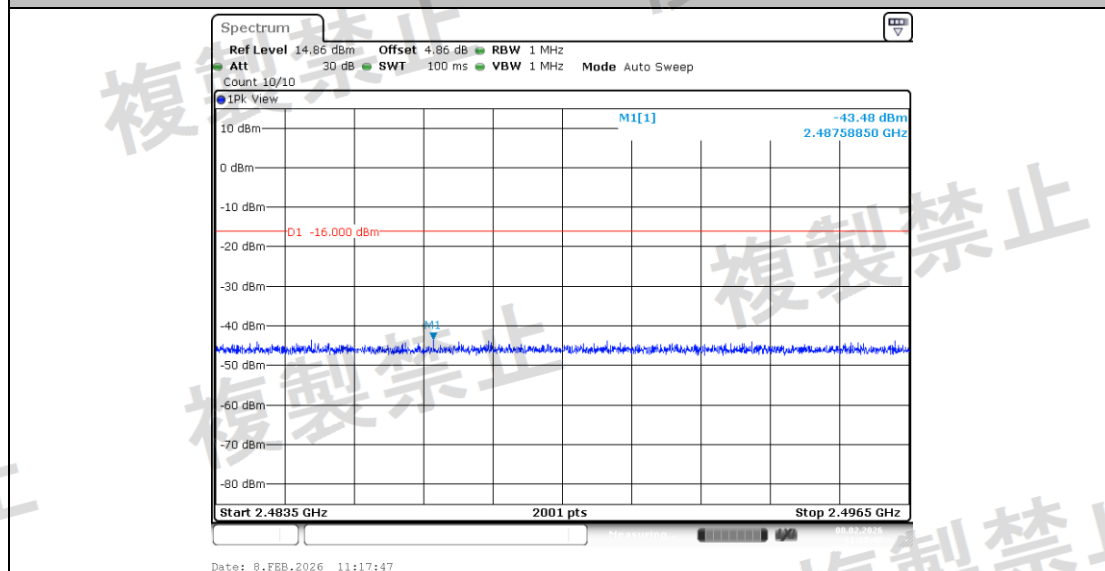




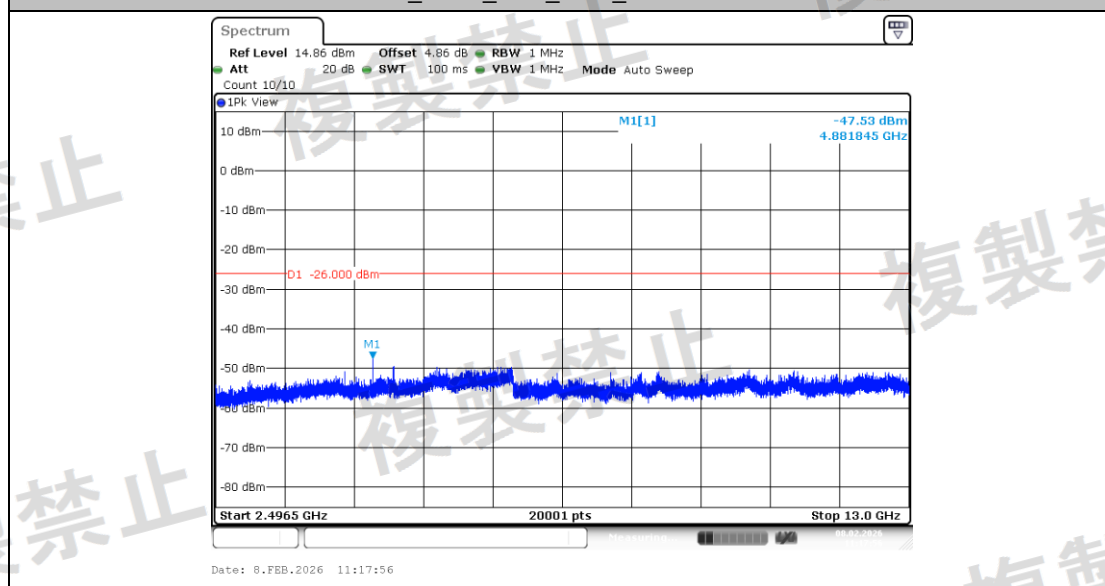
NTNV_3DH5_Ant1_2441_2387~2400

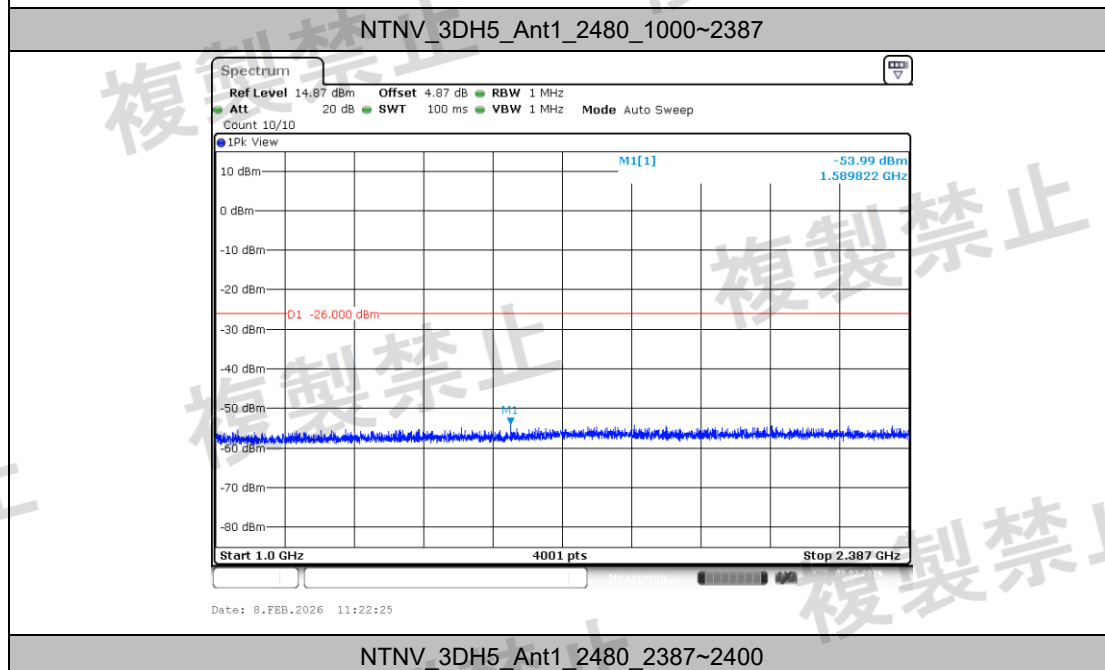
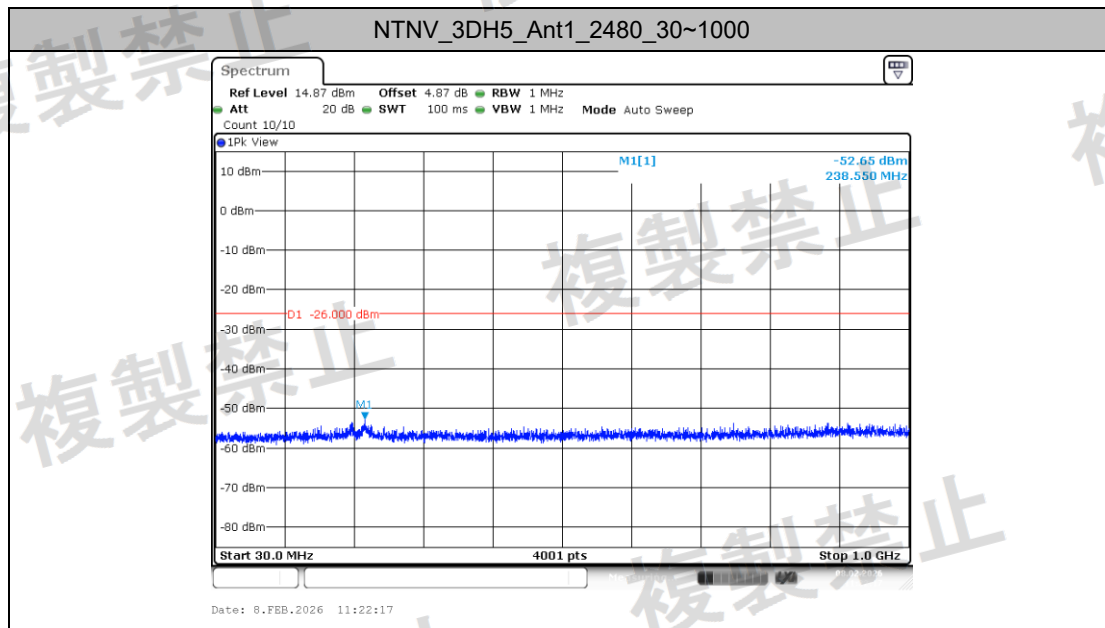


NTNV_3DH5_Ant1_2441_2483.5~2496.5

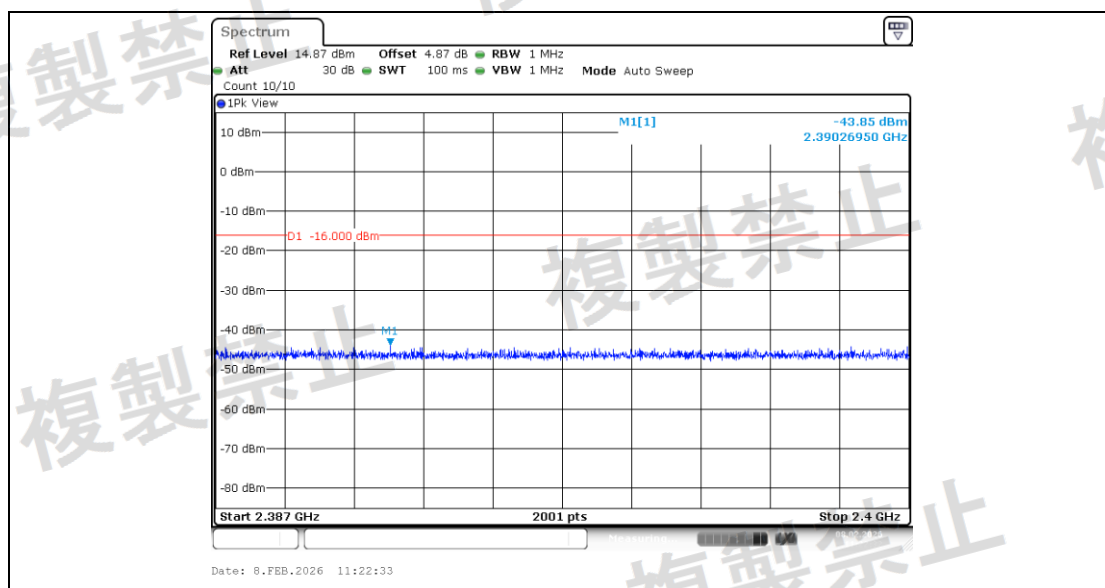


NTNV_3DH5_Ant1_2441_2496.5~13000

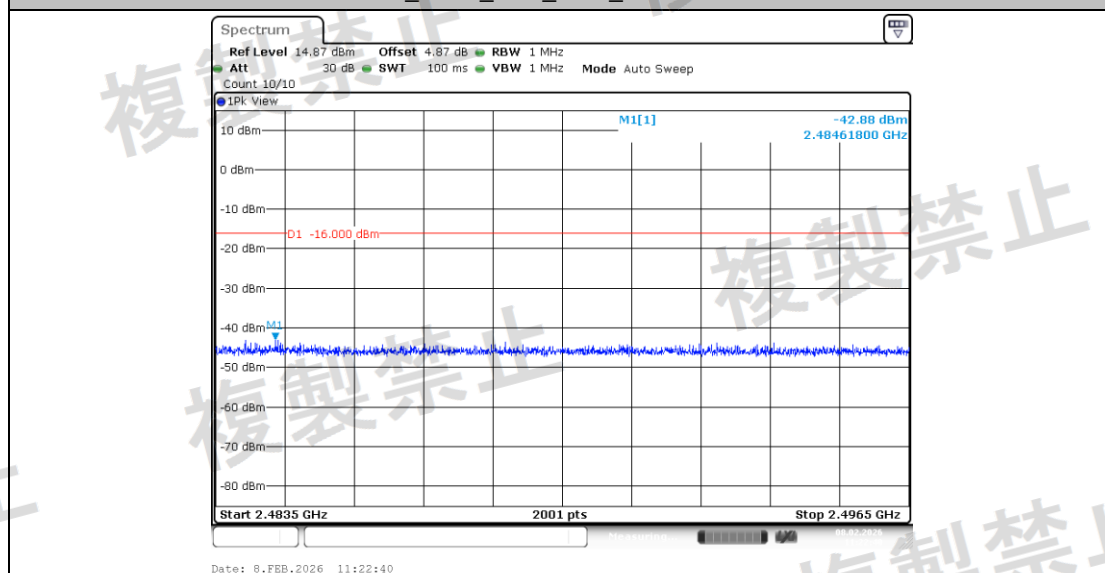




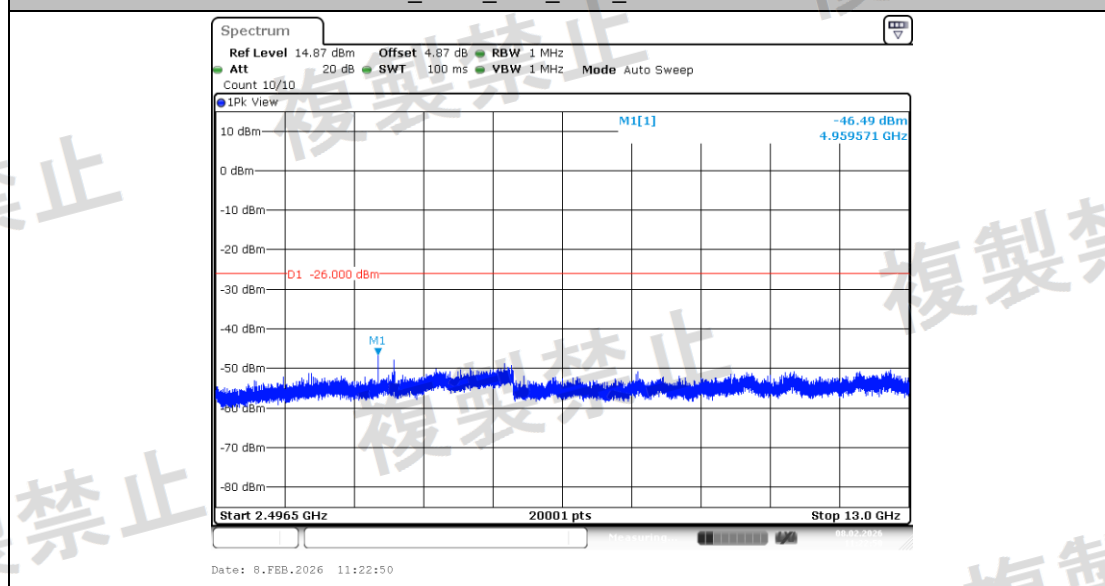
NTNV_3DH5_Ant1_2480_2387~2400



NTVN_3DH5_Ant1_2480_2483.5~2496.5



NTVN_3DH5_Ant1_2480_2496.5~13000

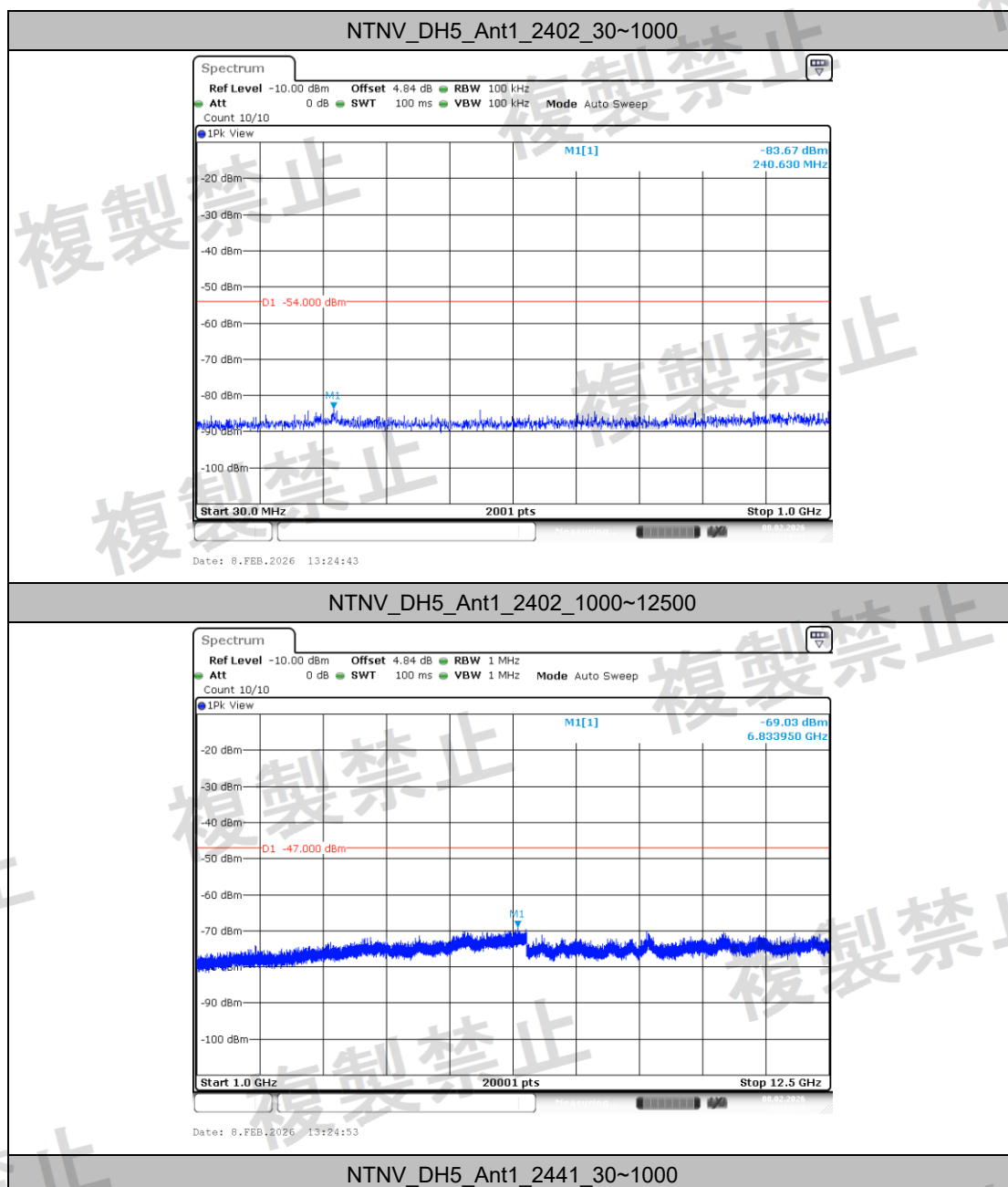


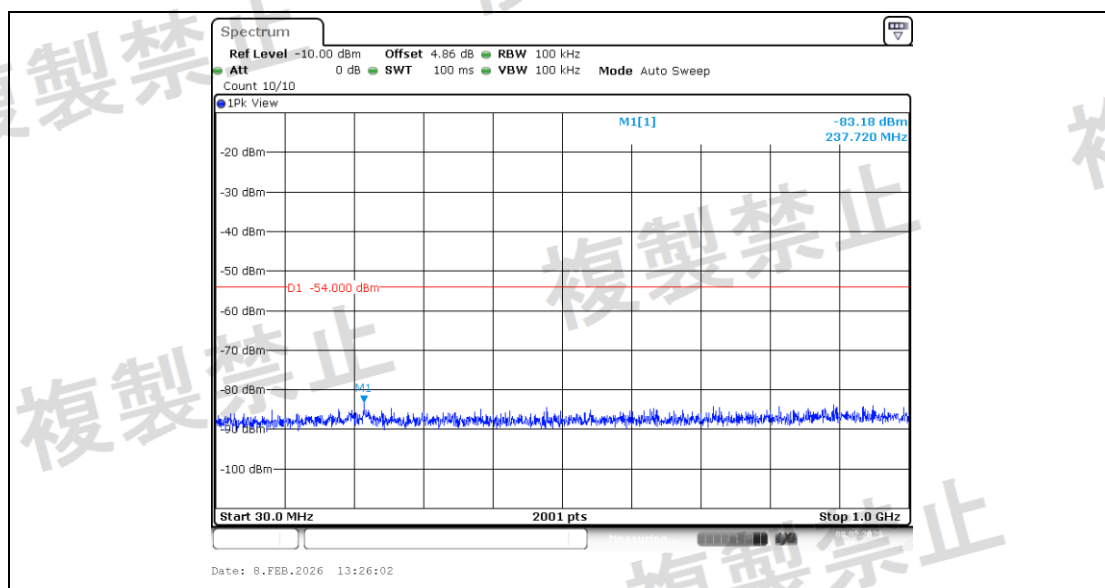
Appendix E: Spurious Emission of RX

Test Result

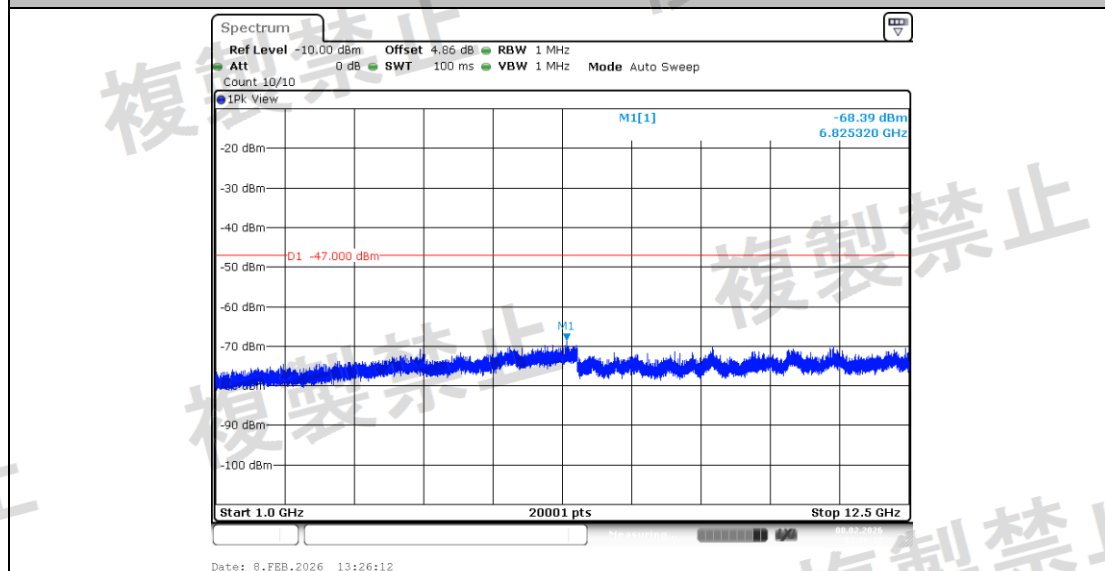
Test Condition	Test Mode	Antenna	Freq(M Hz)	Freq.Range [MHz]	Freq. [MHz]	Result [dBm]	Limit [dBm]	Result [nW]	Limit [nW]	Verdict
NTNV	DH5	Ant1	2402	30~1000	240.63	-83.67	≤-54	0.00430	≤4	PASS
				1000~12500	6833.95	-69.03	≤-47	0.12503	≤20	PASS
			2441	30~1000	237.72	-83.18	≤-54	0.00481	≤4	PASS
				1000~12500	6825.32	-68.39	≤-47	0.14488	≤20	PASS
			2480	30~1000	815.55	-84.11	≤-54	0.00388	≤4	PASS
				1000~12500	6912.72	-68.87	≤-47	0.12972	≤20	PASS
	2DH5	Ant1	2402	30~1000	494.16	-84.29	≤-54	0.00372	≤4	PASS
				1000~12500	6968.49	-68.66	≤-47	0.13614	≤20	PASS
			2441	30~1000	872.75	-83.38	≤-54	0.00459	≤4	PASS
				1000~12500	6852.34	-69.22	≤-47	0.11967	≤20	PASS
			2480	30~1000	745.26	-84.35	≤-54	0.00367	≤4	PASS
				1000~12500	11268.12	-69.36	≤-47	0.11588	≤20	PASS
	3DH5	Ant1	2402	30~1000	865.96	-83.05	≤-54	0.00495	≤4	PASS
				1000~12500	6946.07	-69.05	≤-47	0.12445	≤20	PASS
			2441	30~1000	955.64	-83.69	≤-54	0.00428	≤4	PASS
				1000~12500	6839.70	-69.34	≤-47	0.11641	≤20	PASS
			2480	30~1000	955.64	-83.24	≤-54	0.00474	≤4	PASS
				1000~12500	7212.28	-69.40	≤-47	0.11482	≤20	PASS

Test Graphs

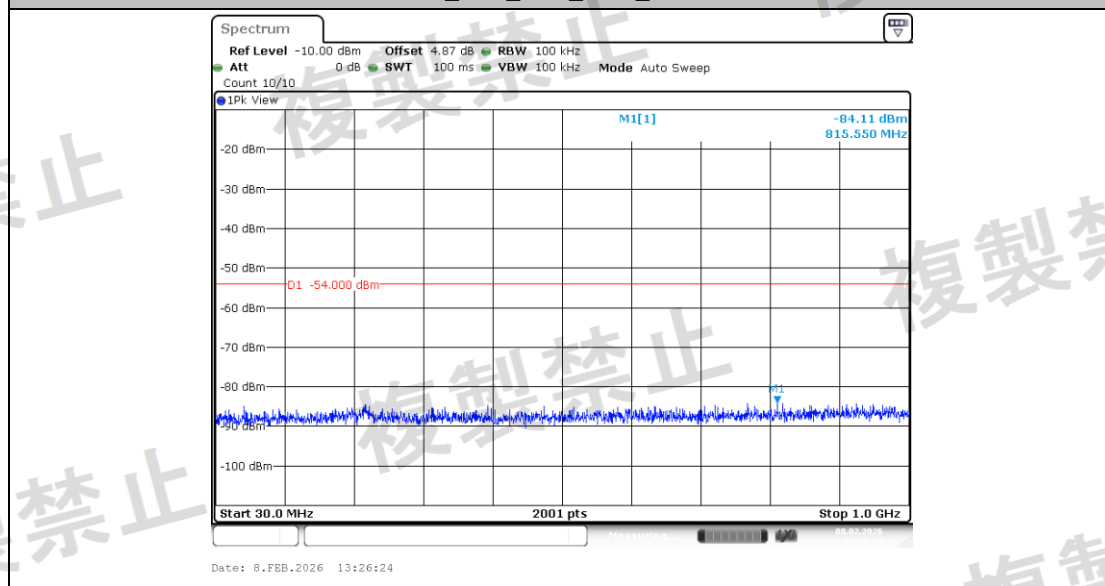


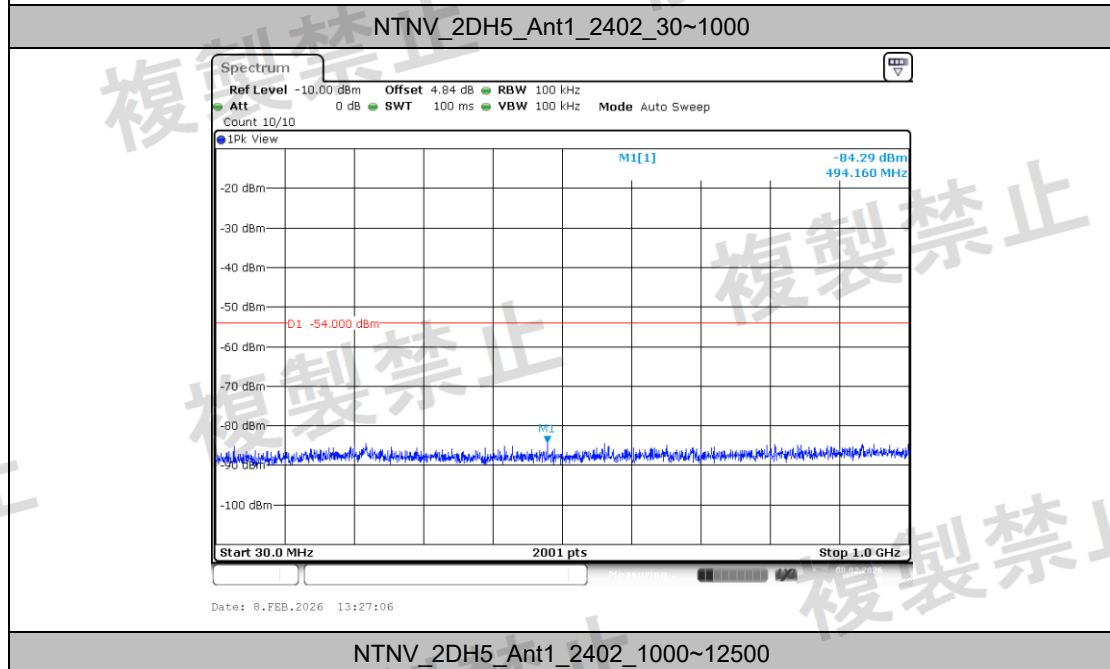
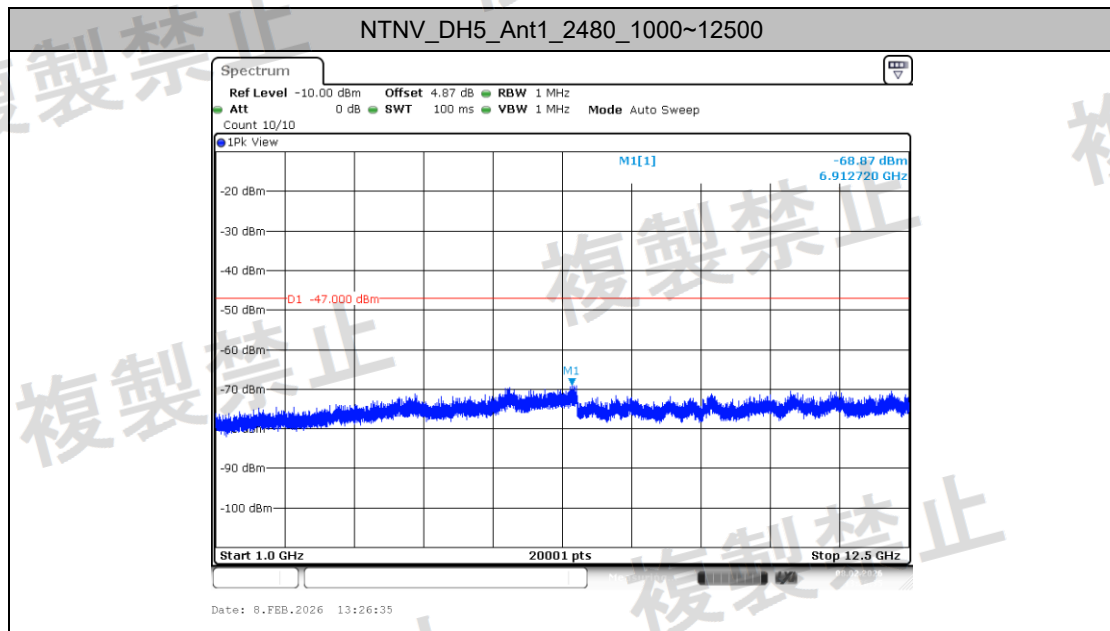


NTNV_DH5_Ant1_2441_1000~12500

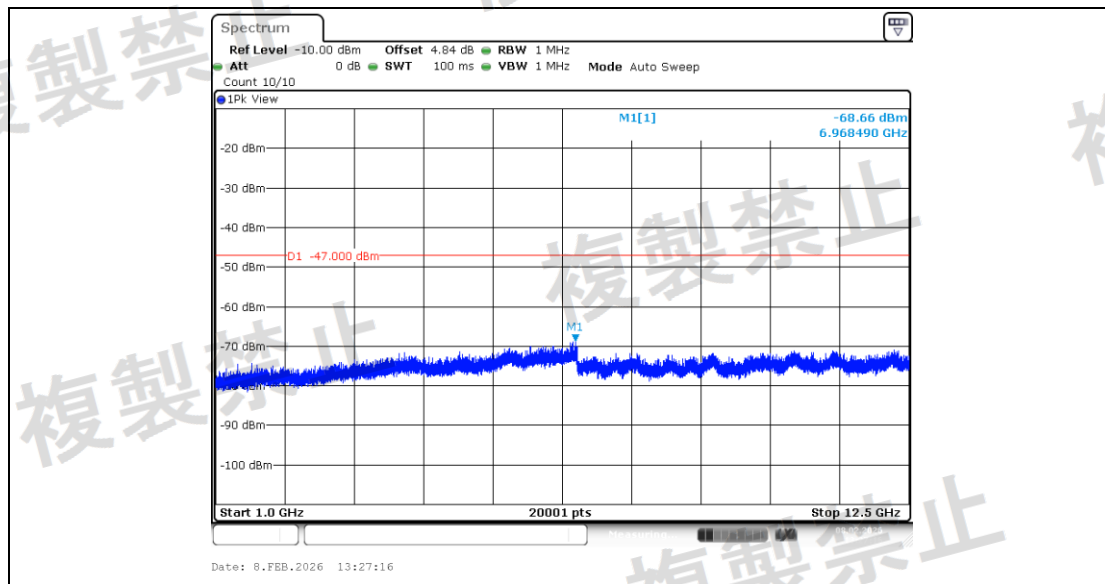


NTNV_DH5_Ant1_2480_30~1000

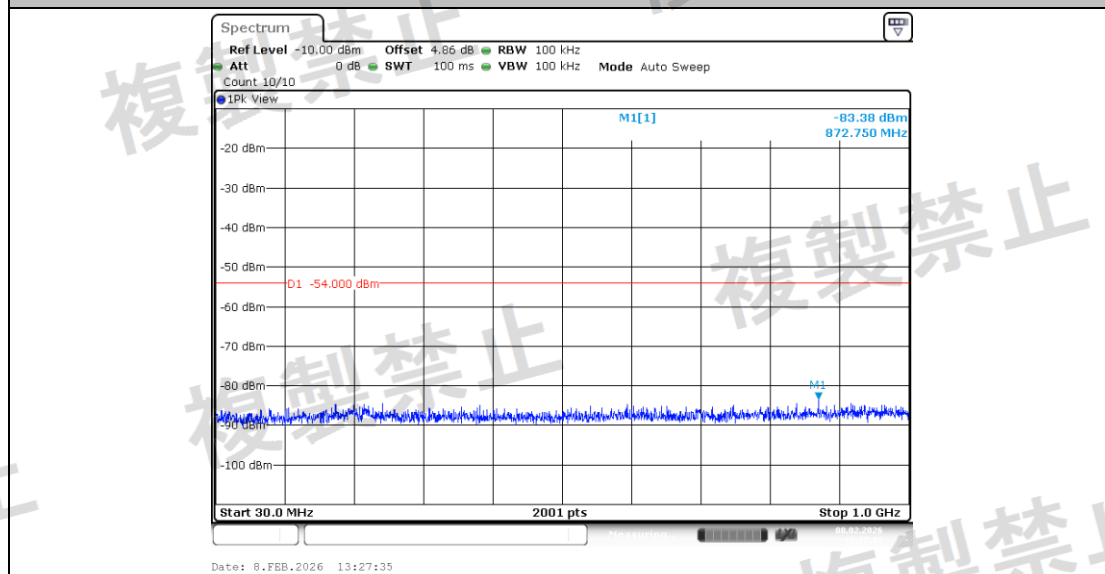




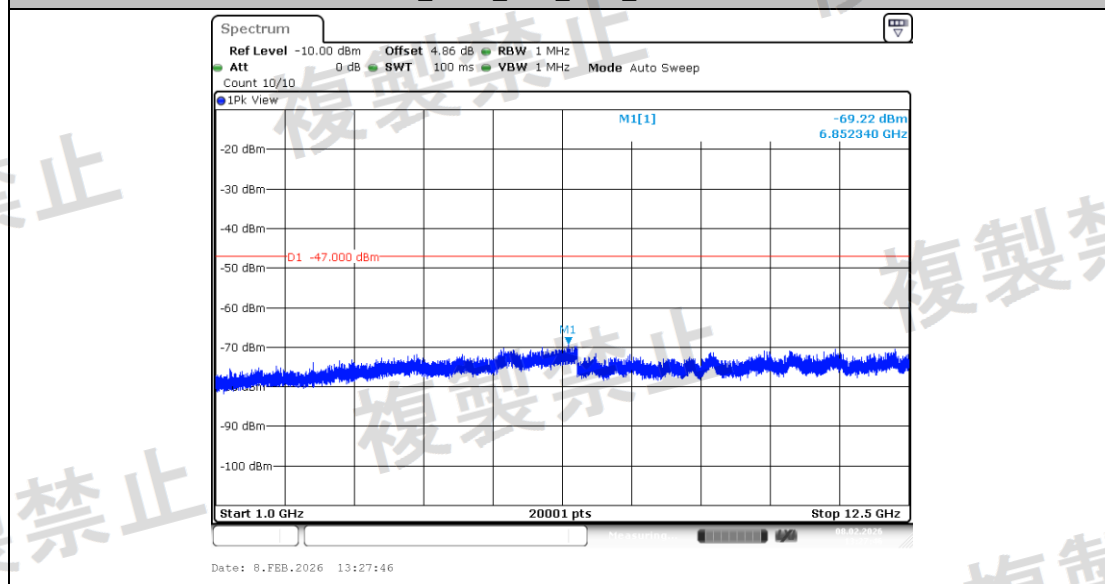
NTNV_2DH5_Ant1_2402_1000~12500

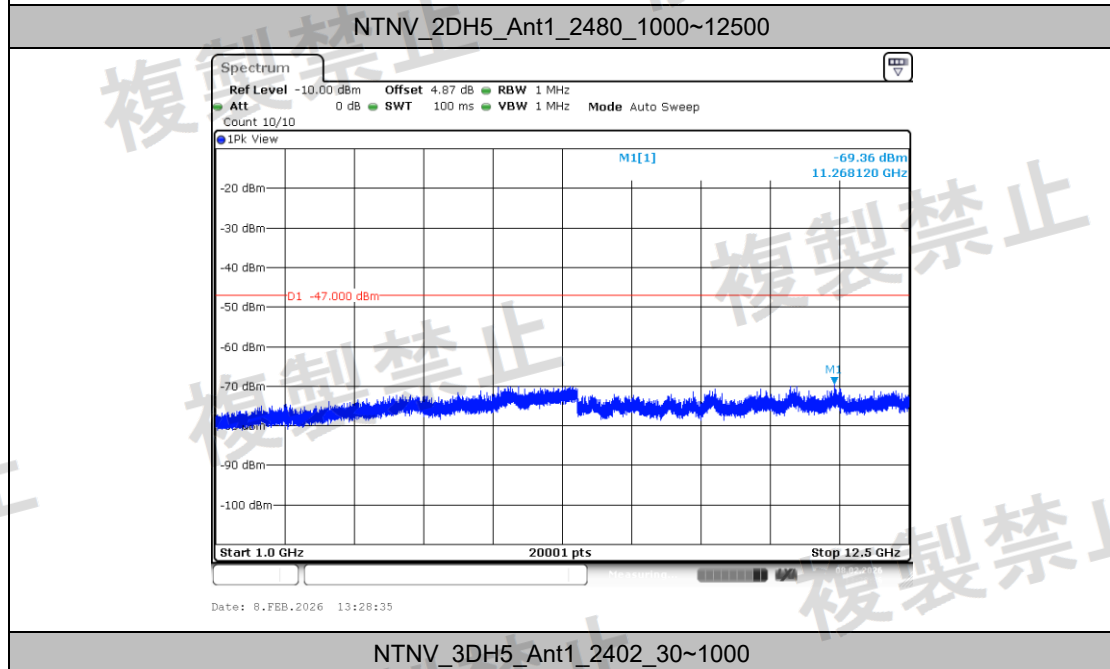
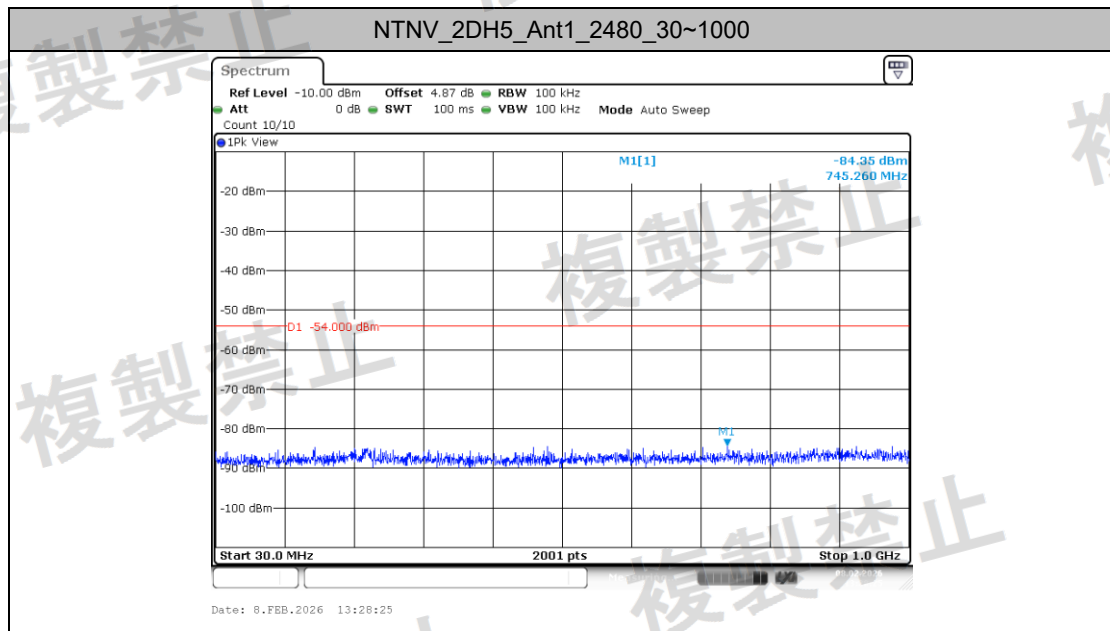


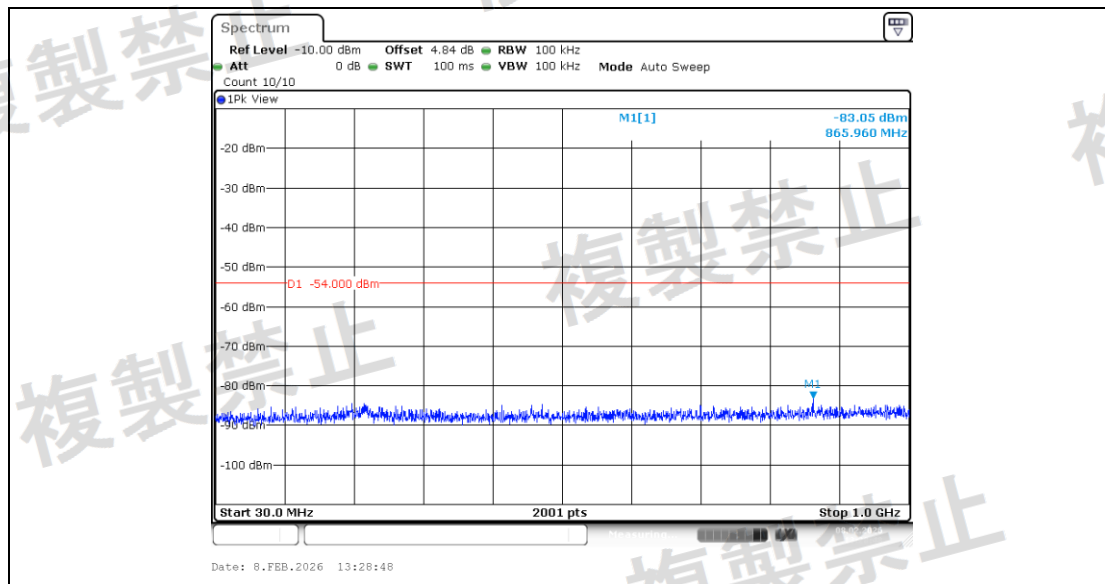
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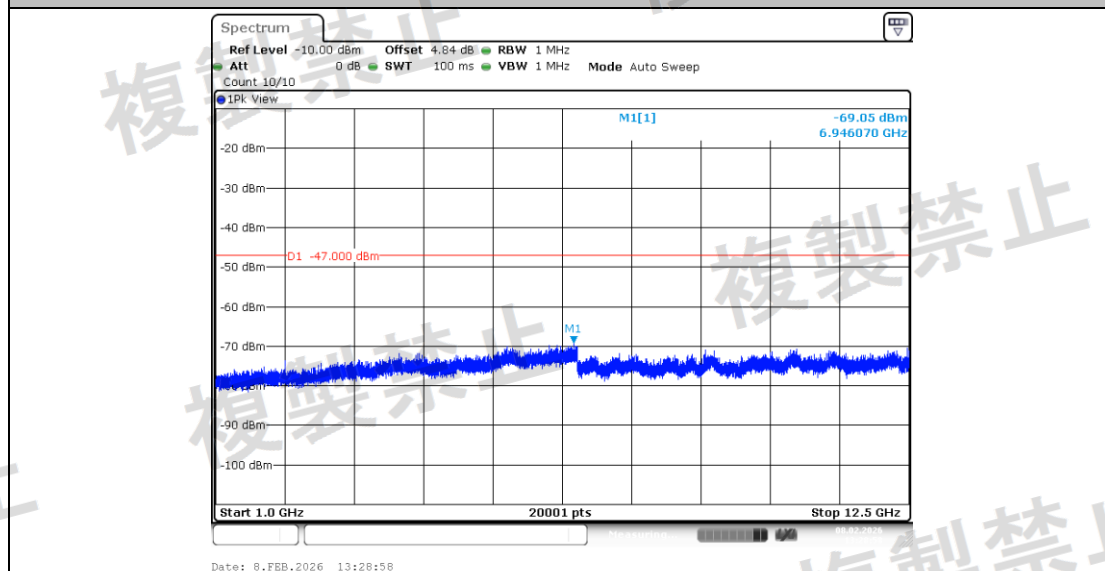
NTNV_2DH5_Ant1_2441_1000~12500



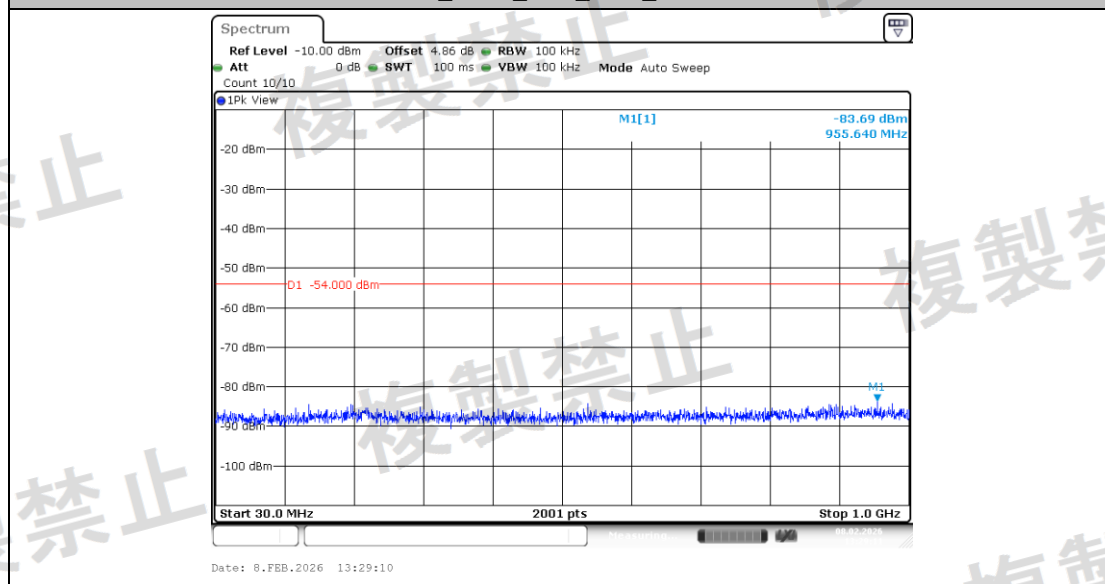


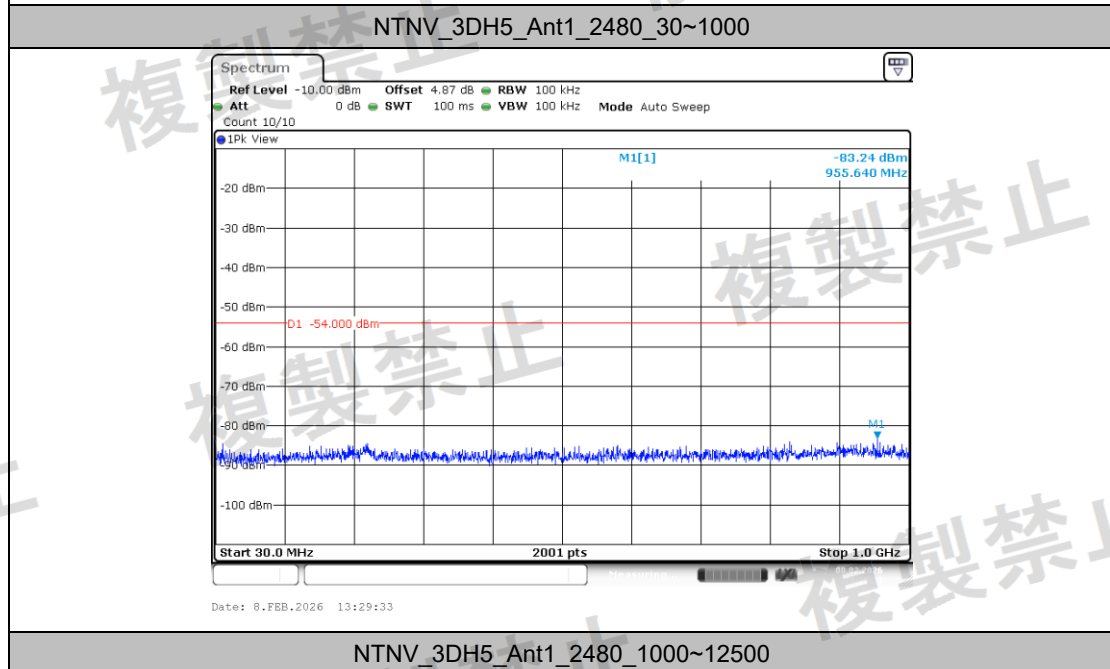
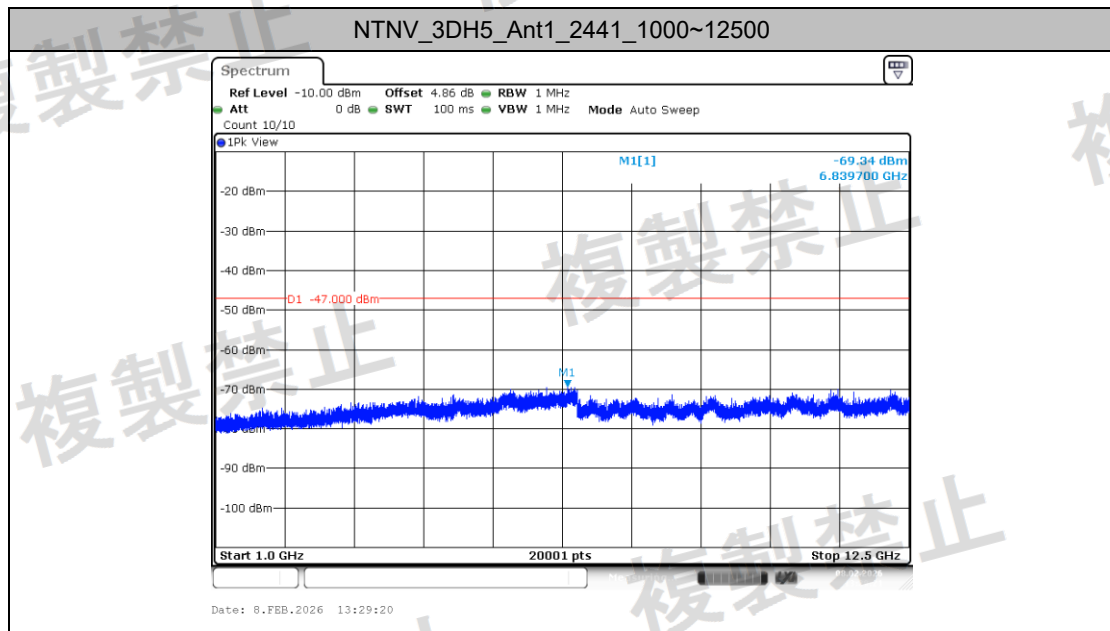


NTNV_3DH5_Ant1_2402_1000~12500

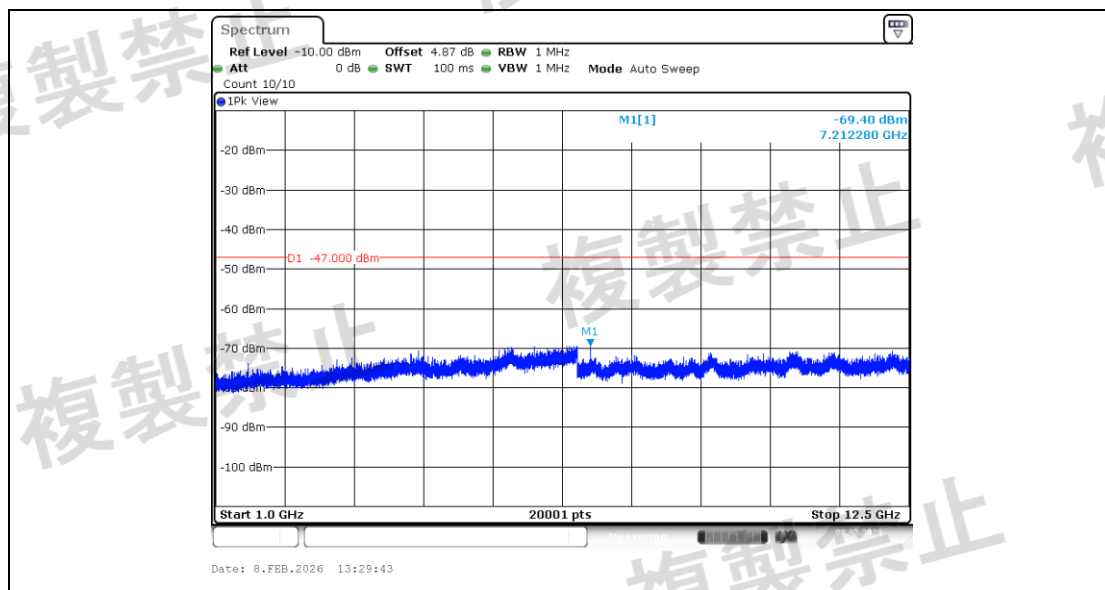


NTNV_3DH5_Ant1_2441_30~1000





NTNV_3DH5_Ant1_2480_1000~12500

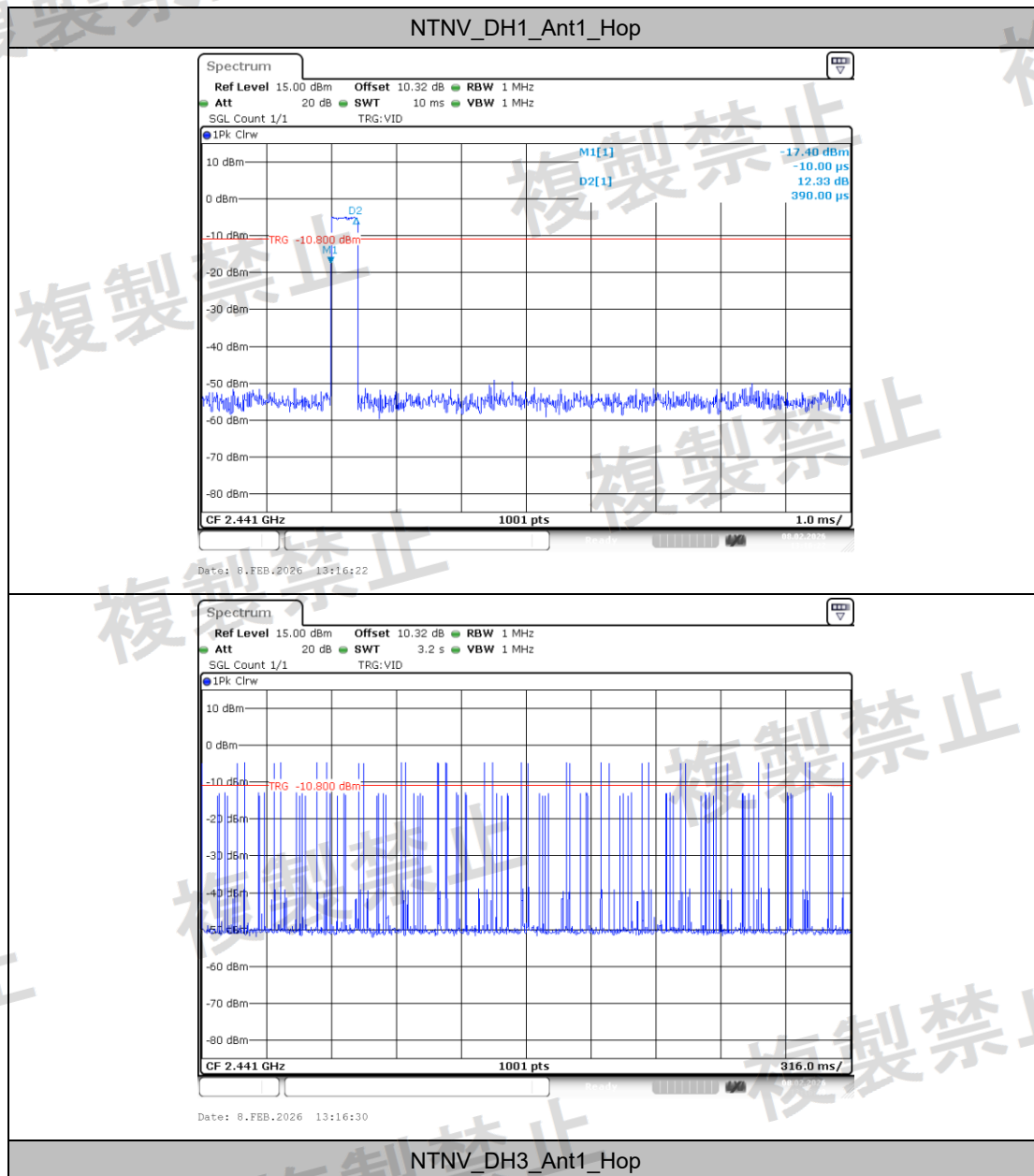


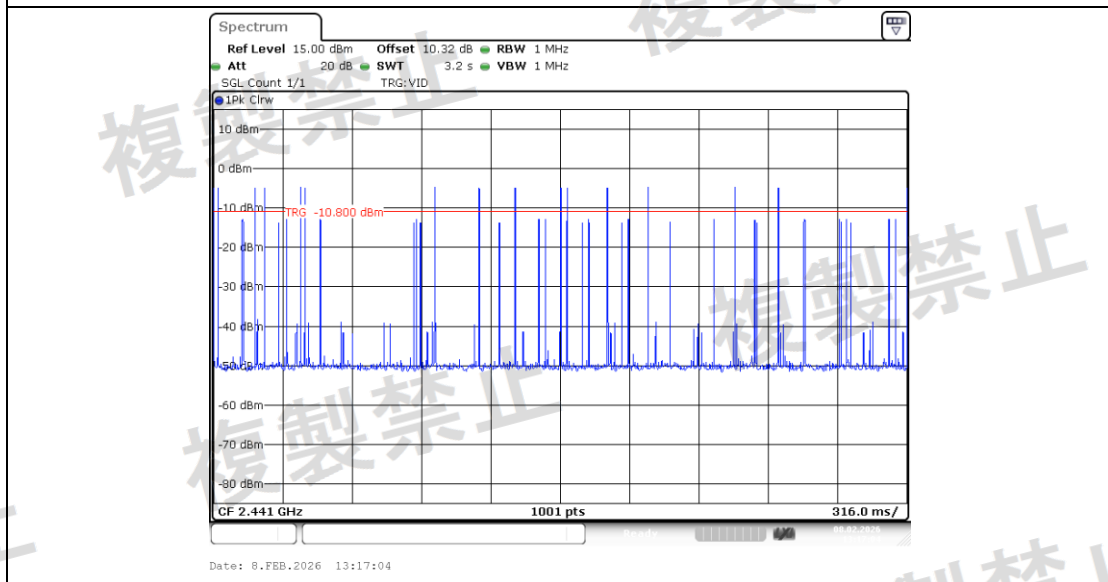
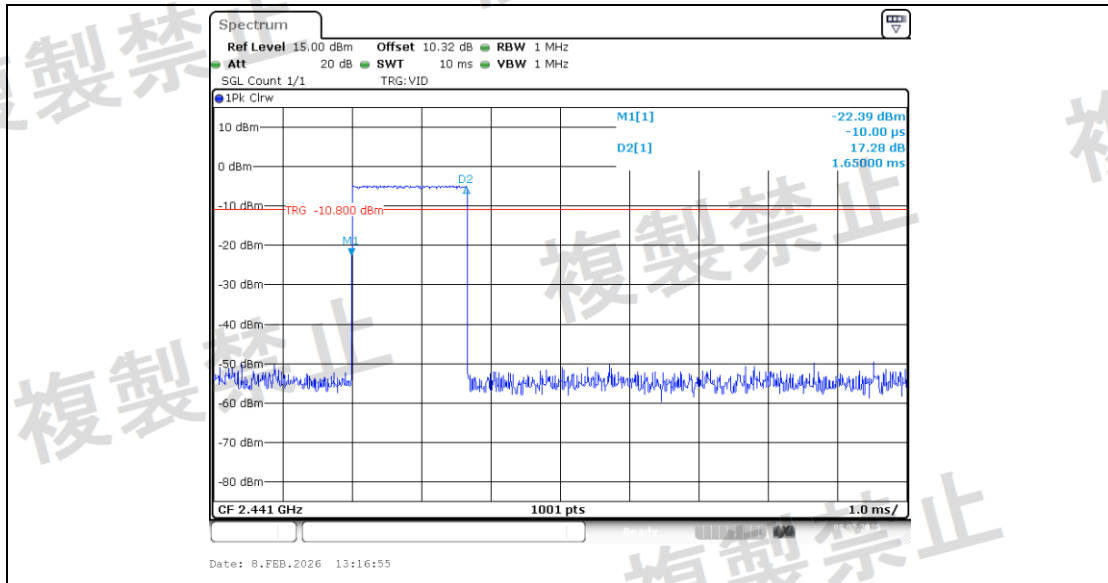
Appendix F: Dwell Time

Test Result

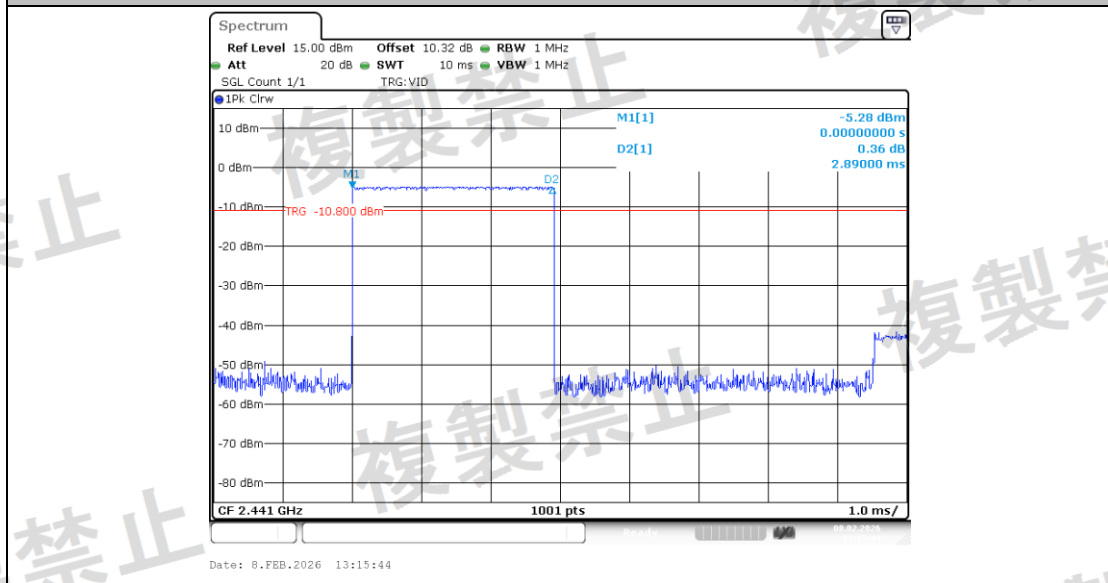
Test Condition	Test Mode	Antenna	Freq(M Hz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit [s]	Verdict
NTNV	DH1	Ant1	Hop	0.39	310	0.121	≤0.4	PASS
	DH3	Ant1	Hop	1.65	150	0.248	≤0.4	PASS
	DH5	Ant1	Hop	2.89	80	0.231	≤0.4	PASS
	2DH1	Ant1	Hop	0.40	320	0.128	≤0.4	PASS
	2DH3	Ant1	Hop	1.65	140	0.231	≤0.4	PASS
	2DH5	Ant1	Hop	2.90	100	0.29	≤0.4	PASS
	3DH1	Ant1	Hop	0.40	300	0.12	≤0.4	PASS
	3DH3	Ant1	Hop	1.65	140	0.231	≤0.4	PASS
	3DH5	Ant1	Hop	2.90	100	0.29	≤0.4	PASS

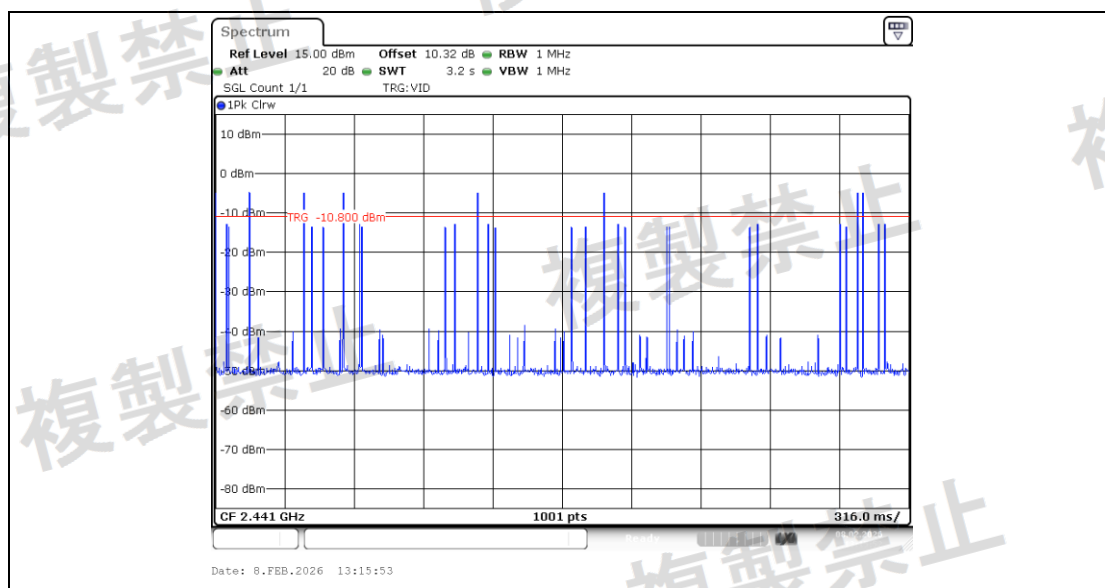
Test Graphs



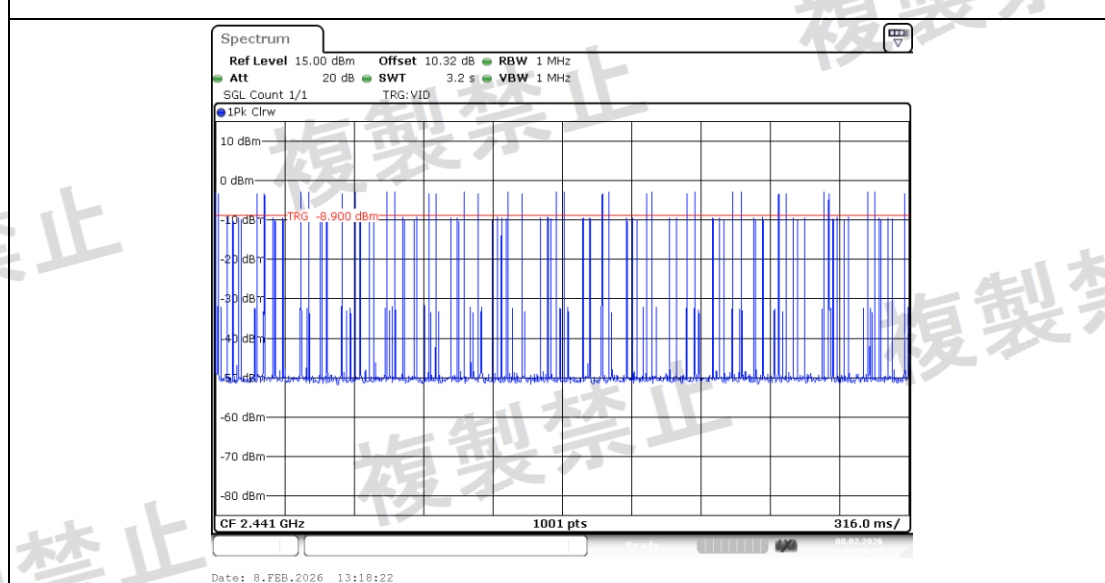
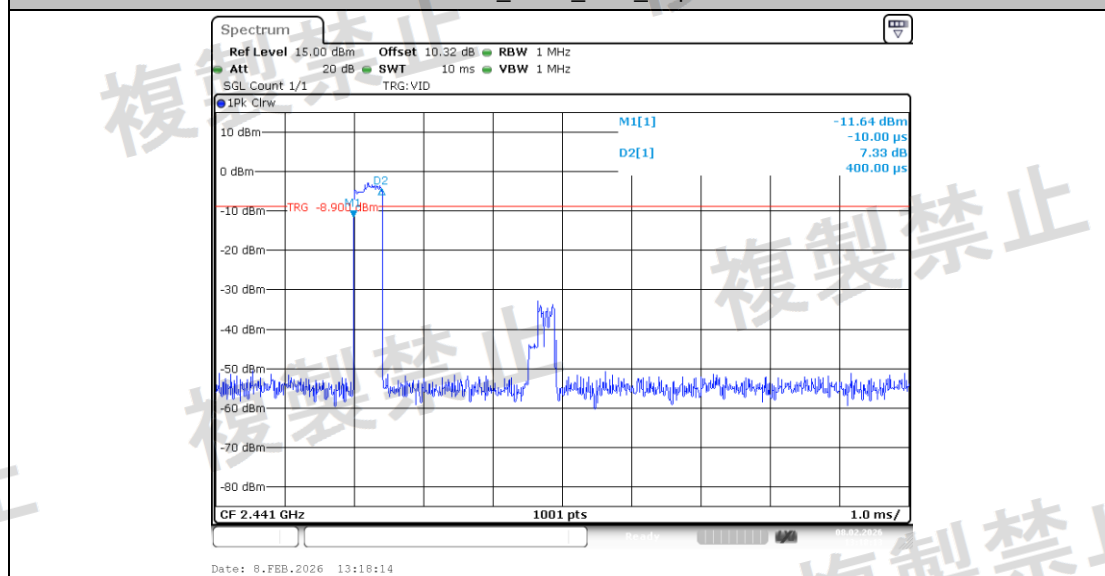


NTNV_DH5_Ant1_Hop

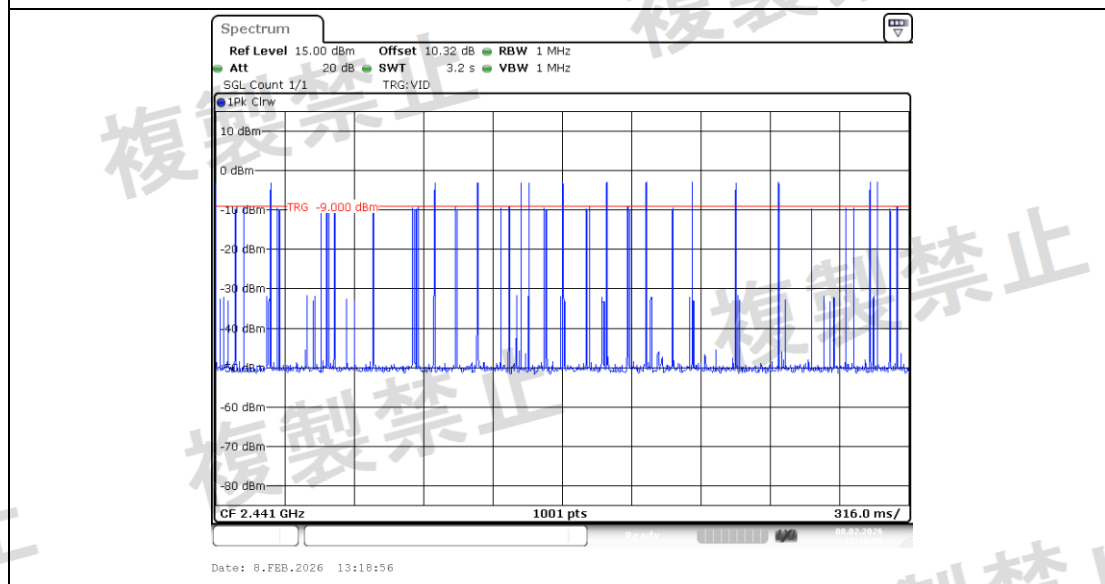
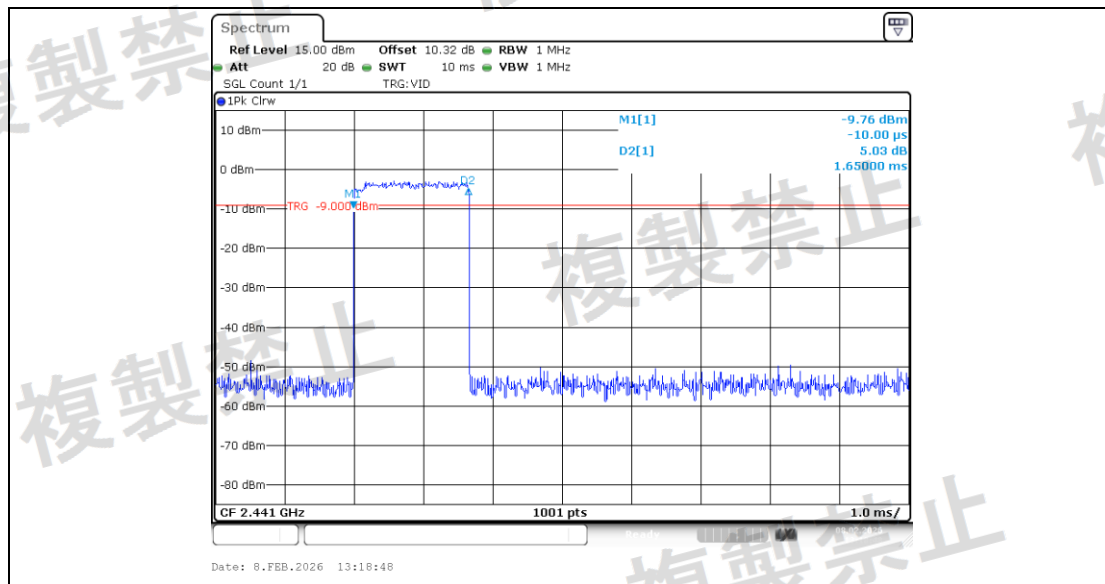




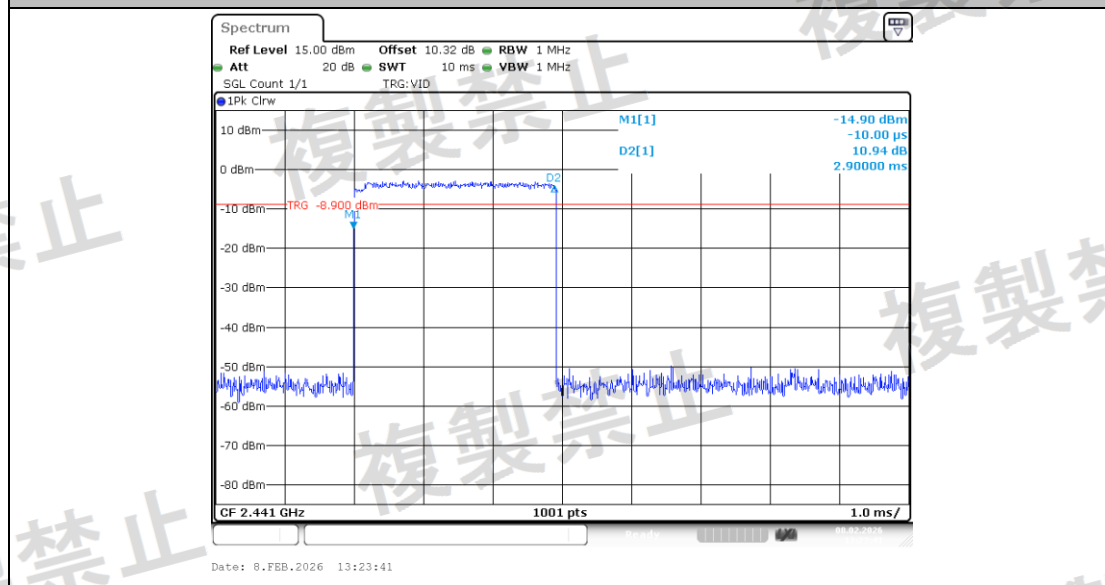
NTNV_2DH1_Ant1_Hop

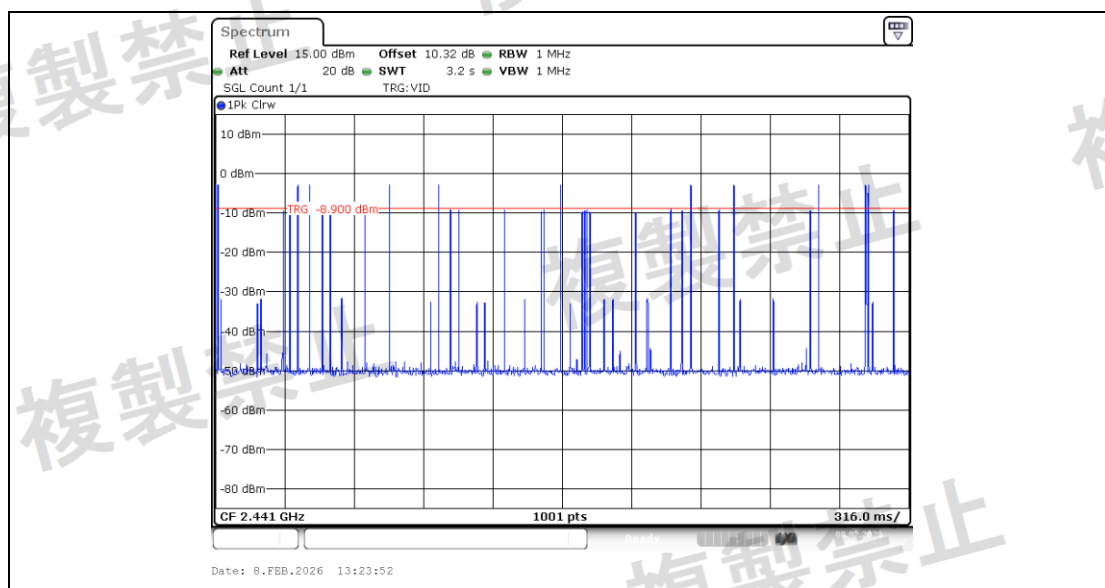


NTNV_2DH3_Ant1_Hop

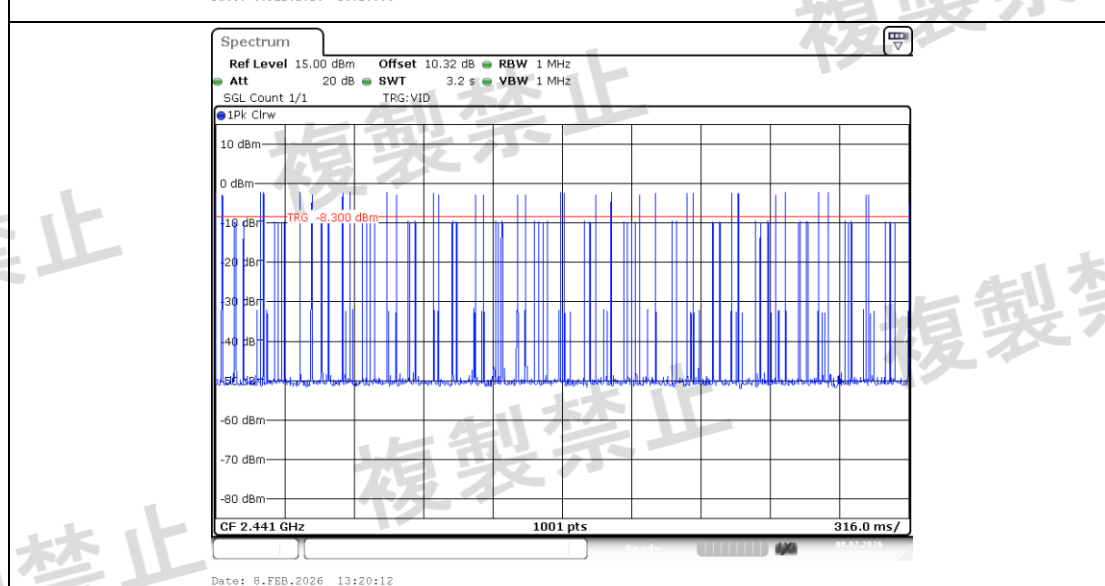
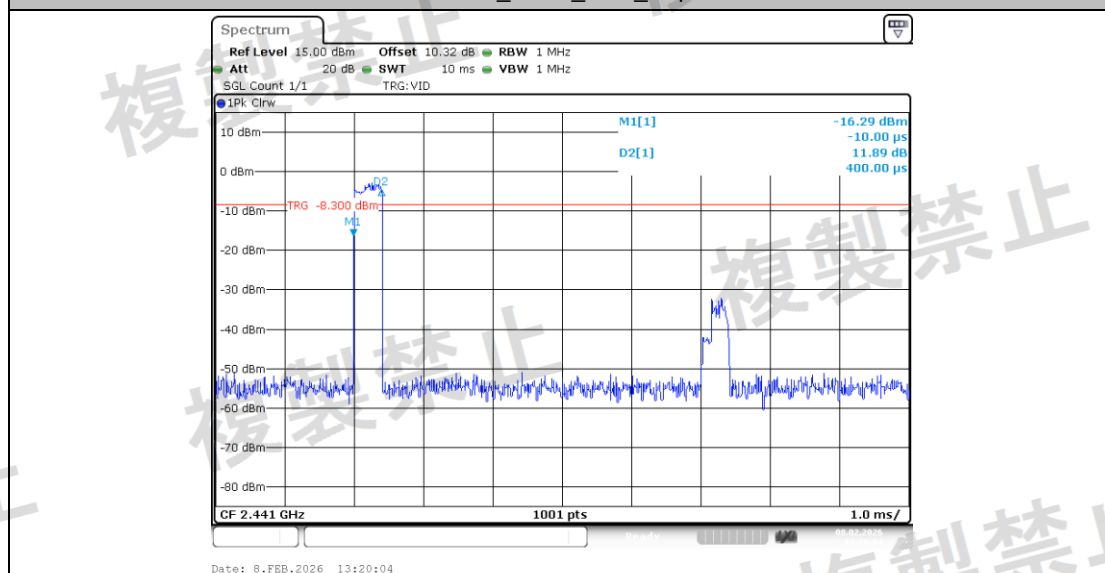


NTNV_2DH5_Ant1_Hop

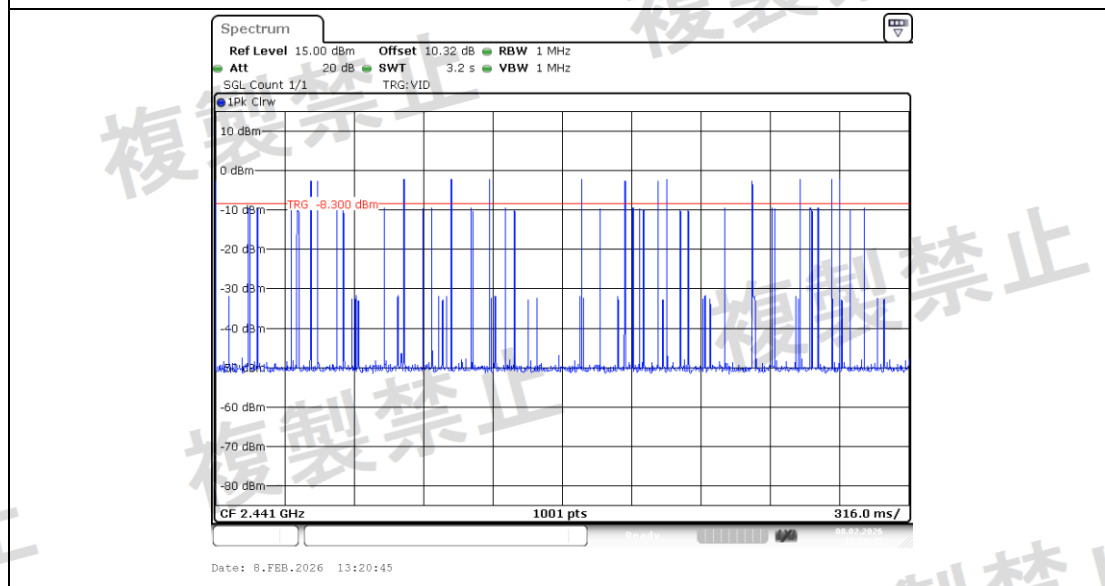
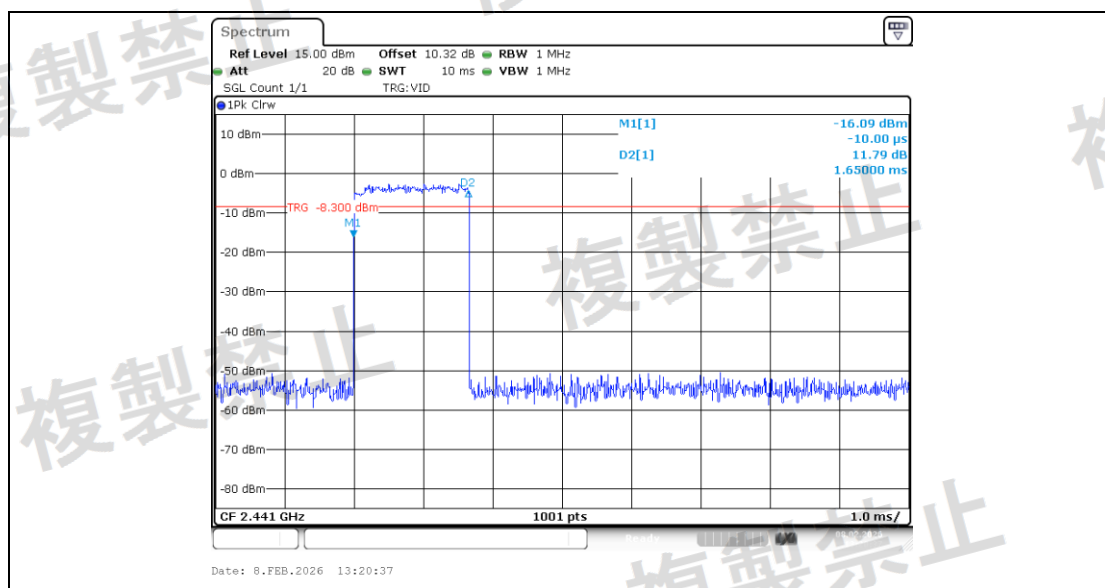




NTNV_3DH1_Ant1_Hop



NTNV_3DH3_Ant1_Hop



NTNV_3DH5_Ant1_Hop

