

Appendix RF Test Data for BR-EDR

Company : T's Network Co.,Ltd

EUT : Portable Speaker

Model Number : KAS-PS55W

Report No. : CTA25072100201

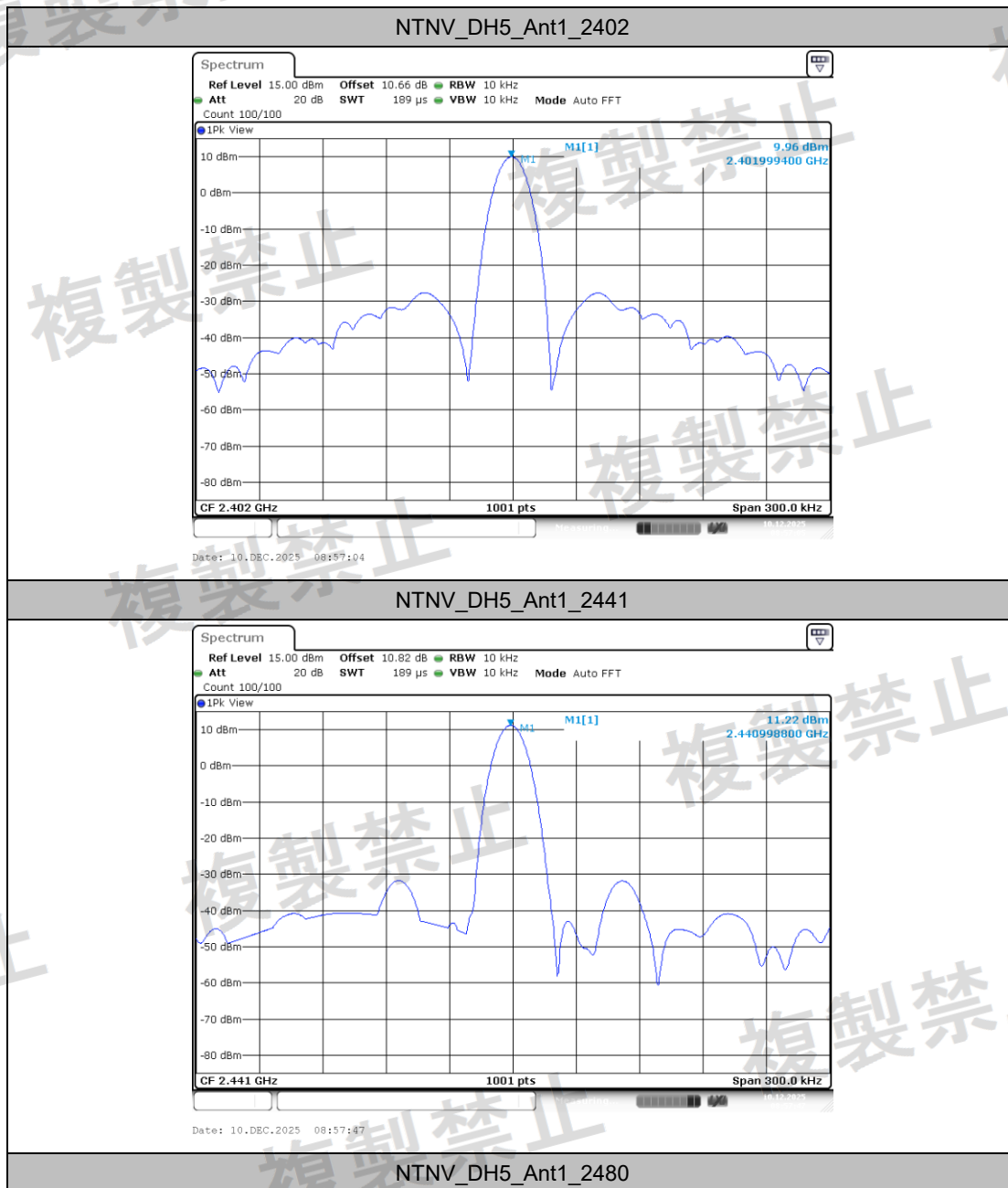
Reviewed By : Eric Wang

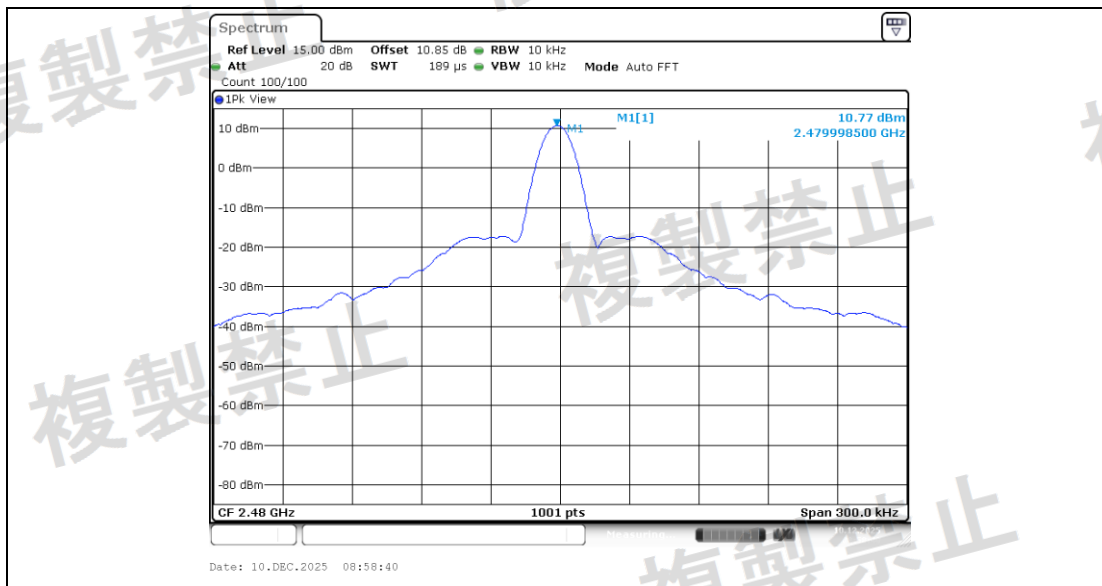
Appendix A: Frequency_Error

Test Result

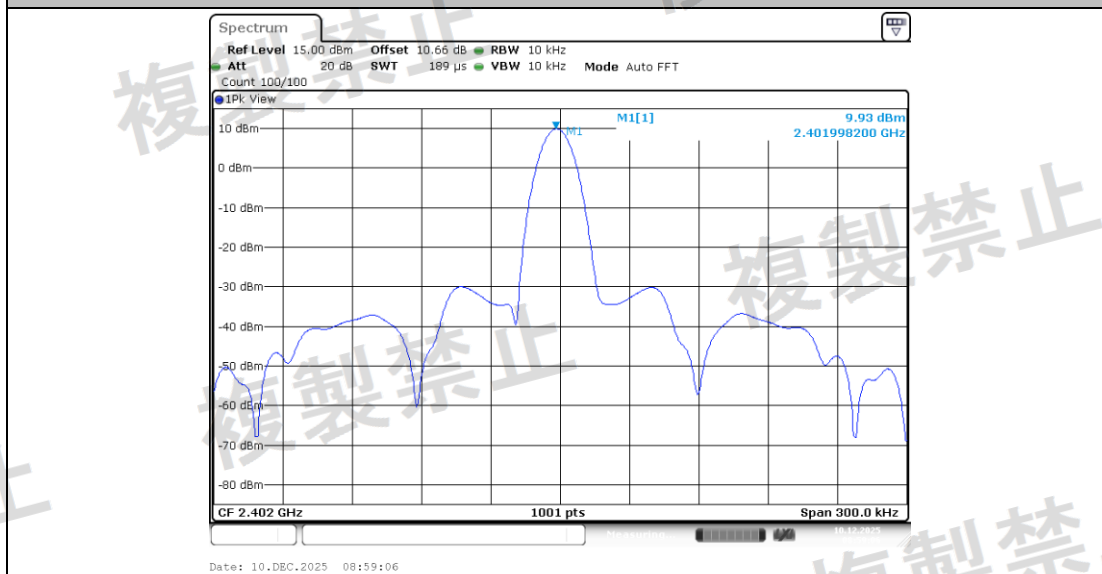
Test Condition	Test Mode	Antenna	Freq(MHz)	Result[ppm]	Limit[ppm]	Verdict
NTNV	DH5	Ant1	2402	-0.24979	±50	PASS
			2441	-0.49160	±50	PASS
			2480	-0.60484	±50	PASS
	2DH5	Ant1	2402	-0.74938	±50	PASS
			2441	-0.73740	±50	PASS
			2480	-0.72581	±50	PASS
	3DH5	Ant1	2402	-0.87427	±50	PASS
			2441	-0.98320	±50	PASS
			2480	-1.08871	±50	PASS

Test Graphs

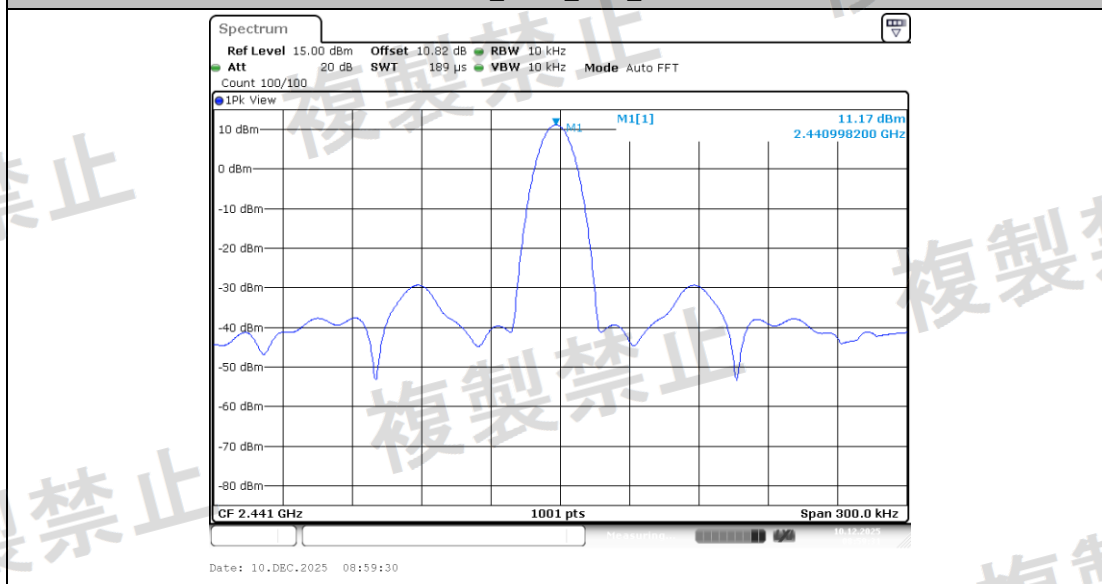


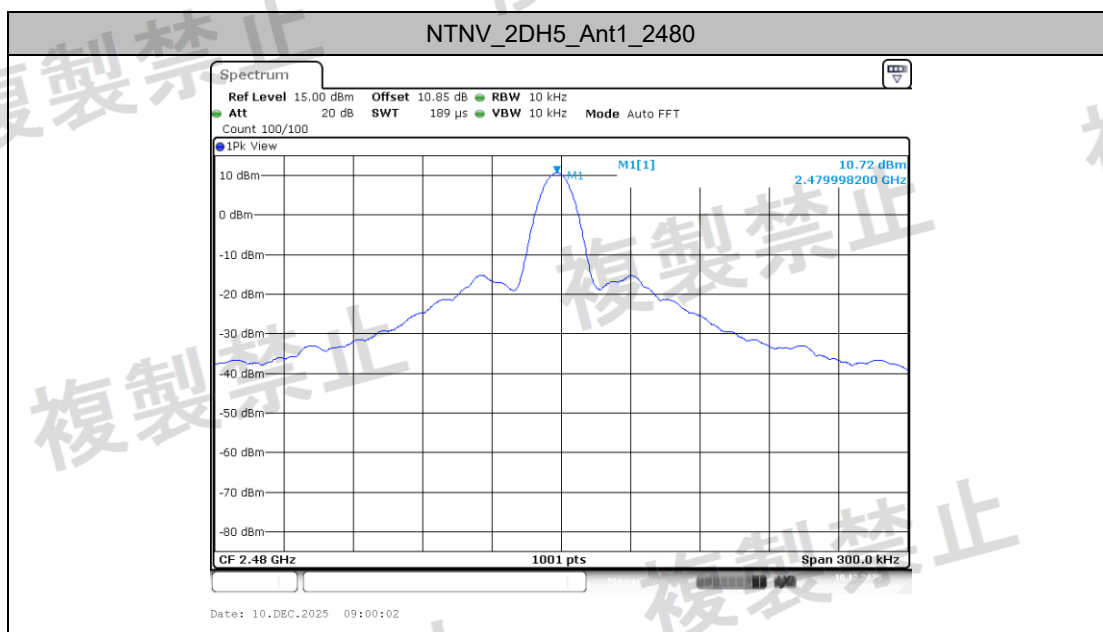
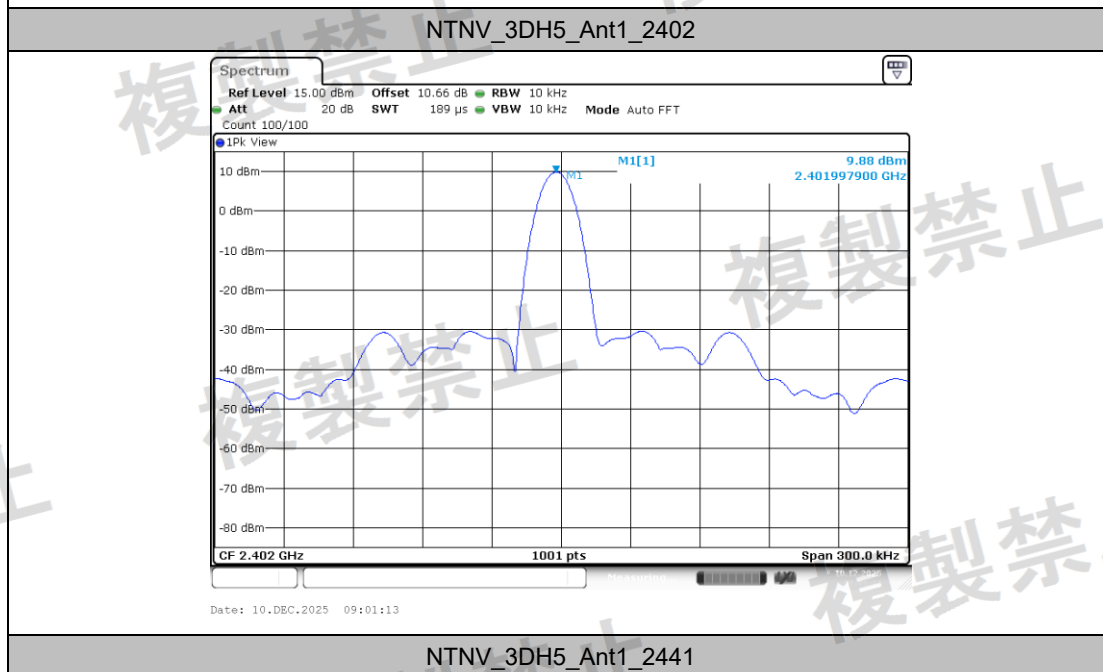


NTNV_2DH5_Ant1_2402

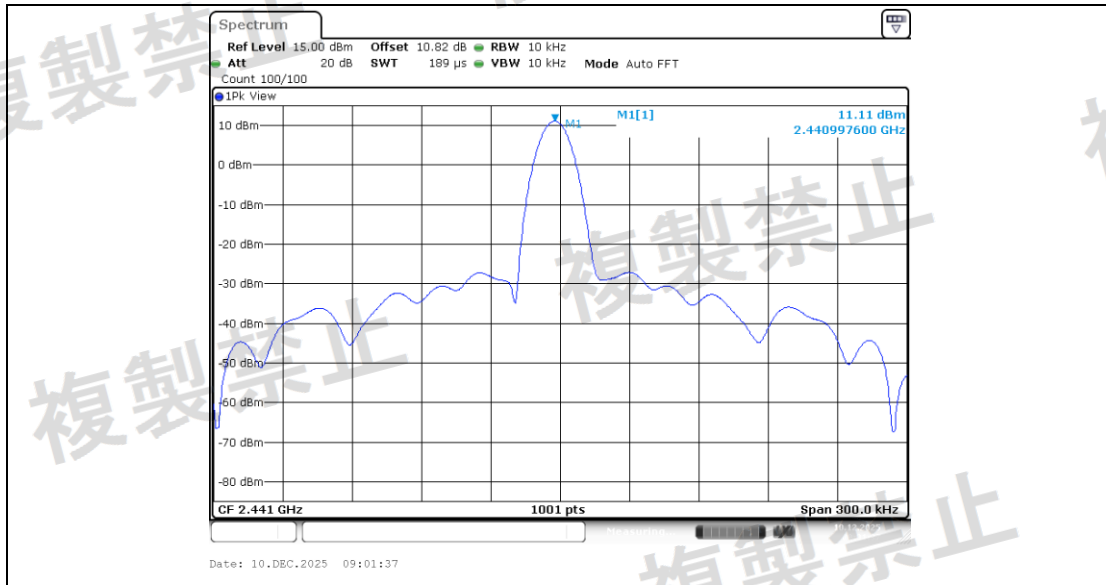


NTNV_2DH5_Ant1_2441

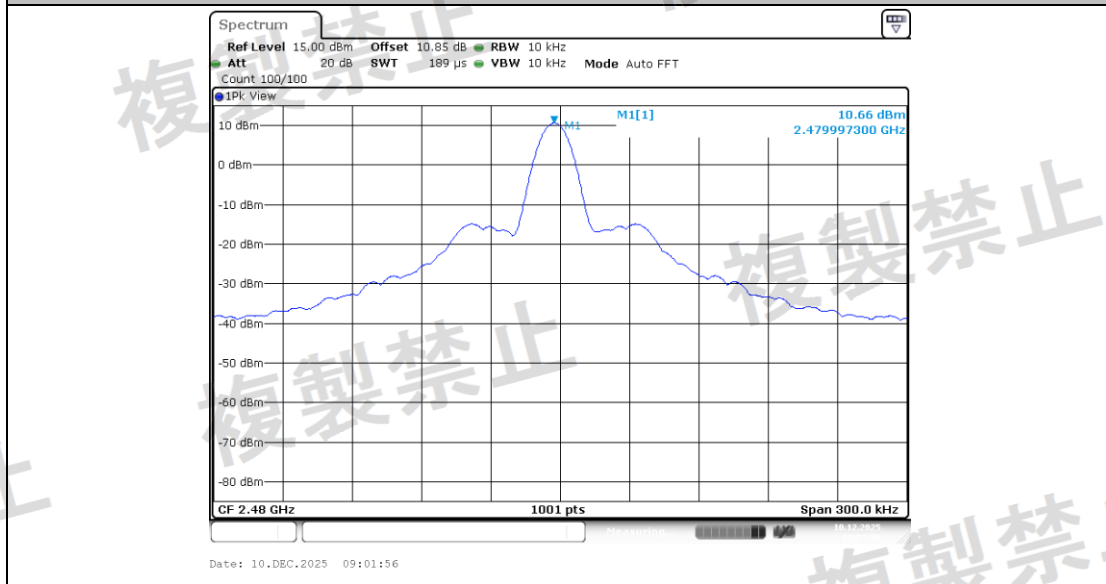




NTNV_3DH5_Ant1_2441



NTNV_3DH5_Ant1_2480

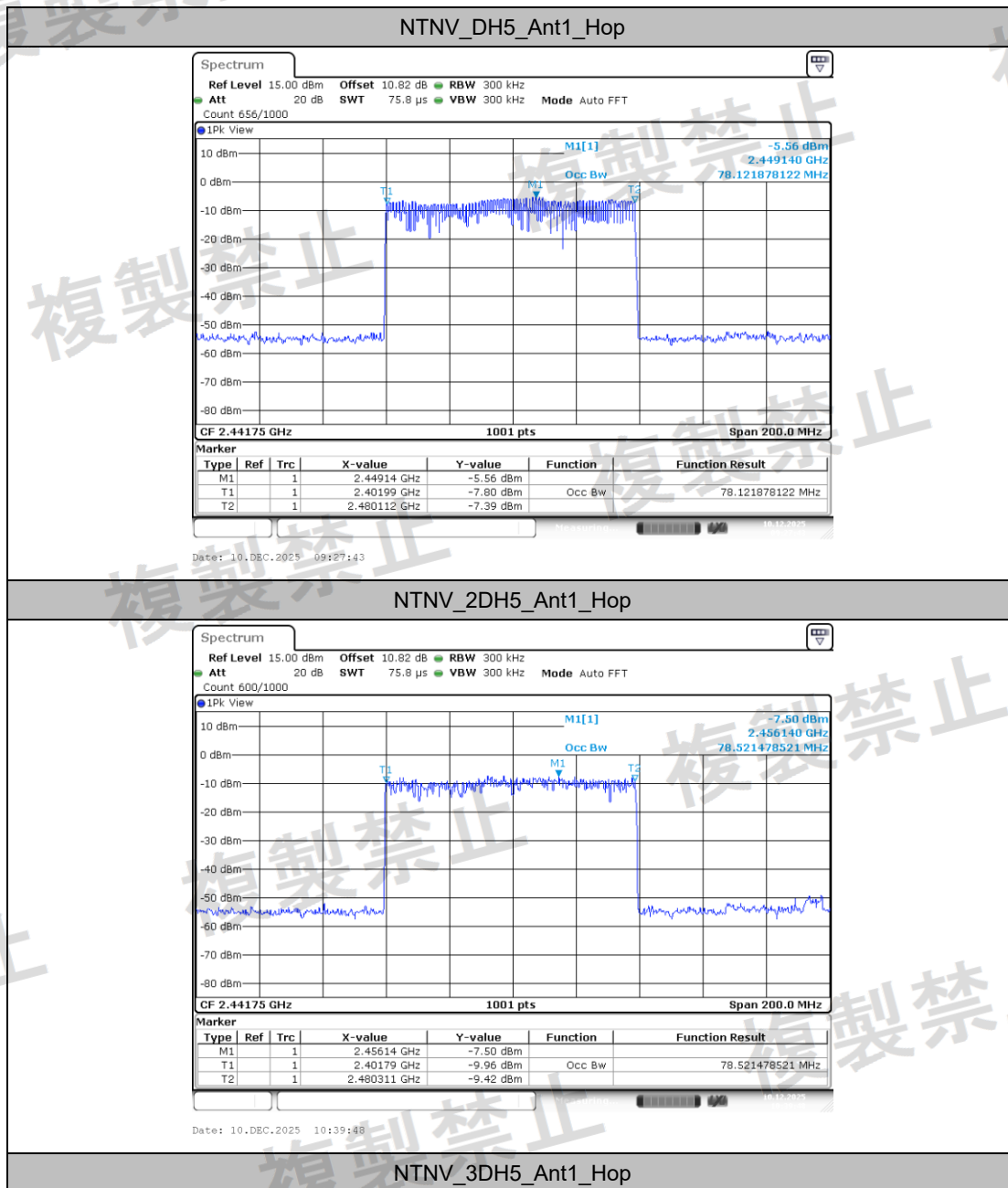


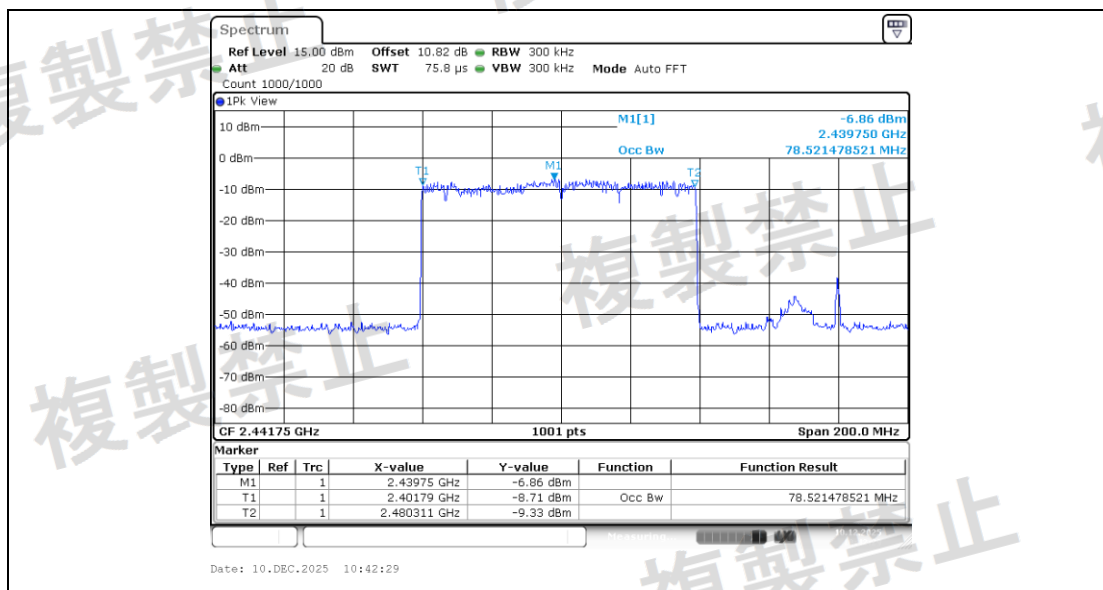
Appendix B: Occupied Bandwidth

Test Result

Test Condition	Test Mode	Antenna	Freq(MHz)	Result [MHz]	Limit [MHz]	Verdict
NTNV	DH5	Ant1	Hop	78.122	≤83.5	PASS
	2DH5	Ant1	Hop	78.521	≤83.5	PASS
	3DH5	Ant1	Hop	78.521	≤83.5	PASS

Test Graphs



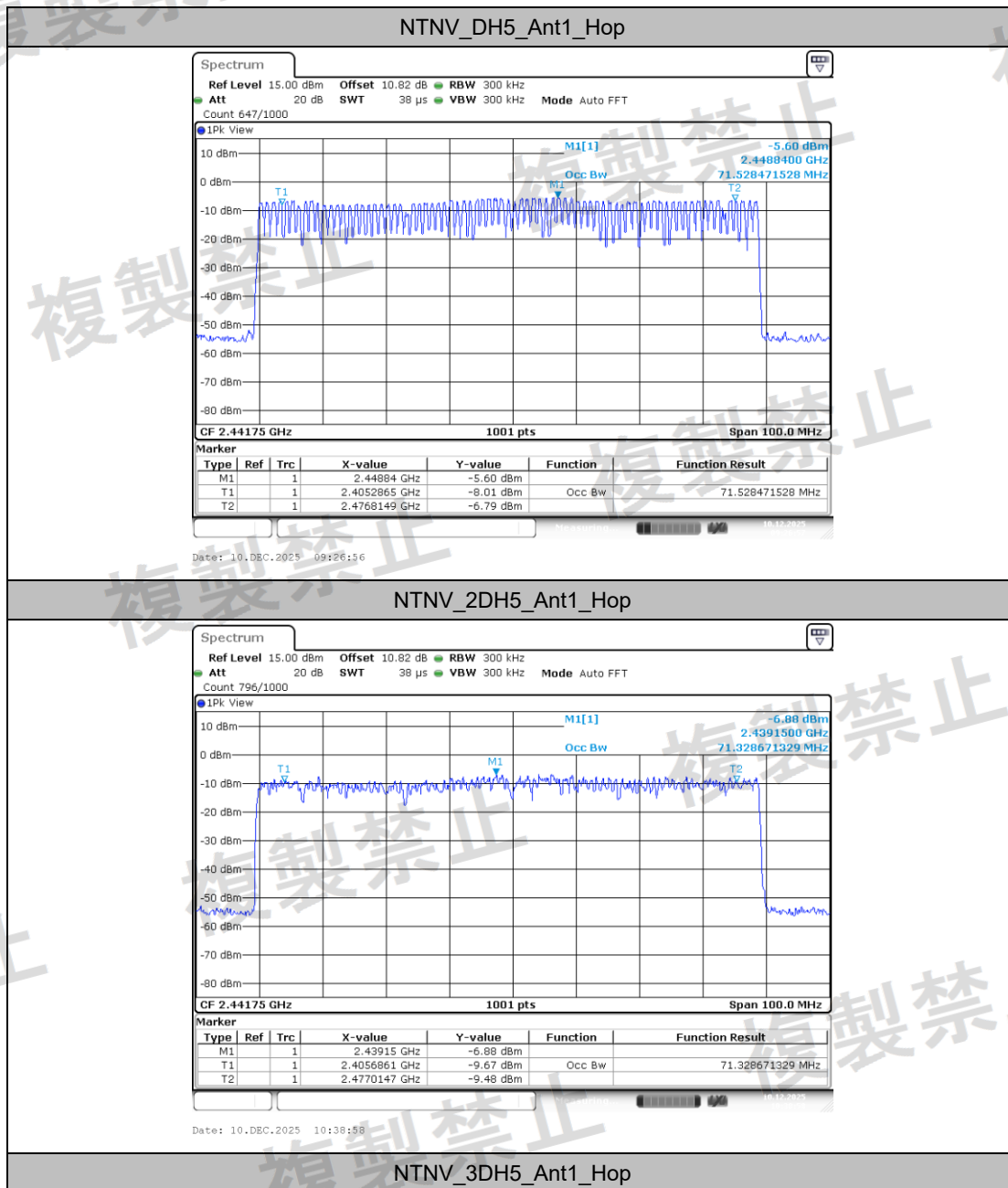


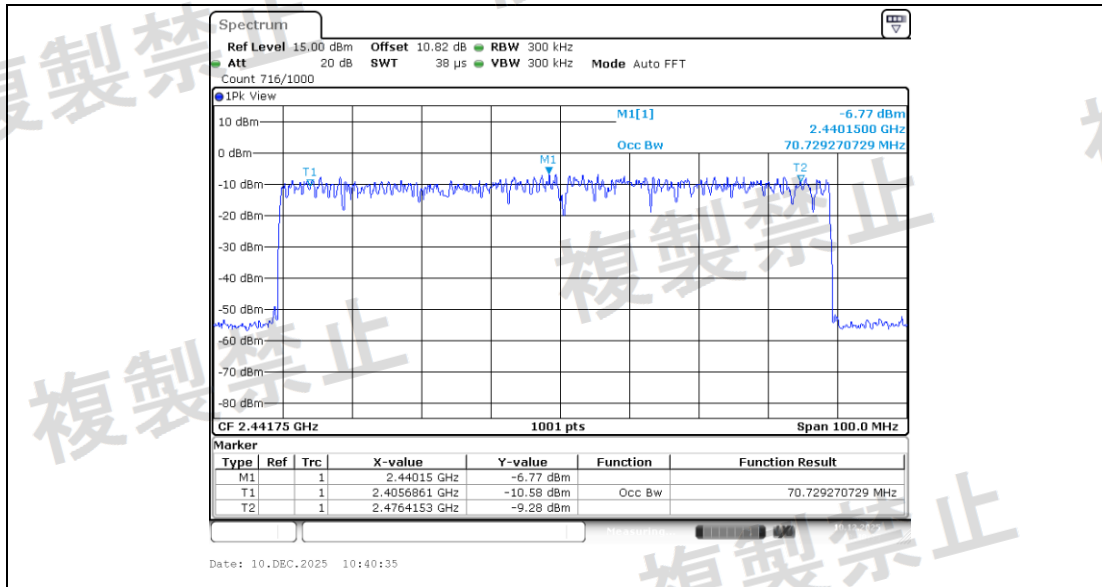
Appendix C: Spread Bandwidth

Test Result

Test Condition	Test Mode	Antenna	Freq(MHz)	Result [MHz]	Limit [MHz]	Spread Factor	Limit	Verdict
NTNV	DH5	Ant1	Hop	71.528	≥ 0.5	71.528	>5	PASS
	2DH5	Ant1	Hop	71.329	≥ 0.5	71.329	>5	PASS
	3DH5	Ant1	Hop	70.729	≥ 0.5	70.729	>5	PASS

Test Graphs





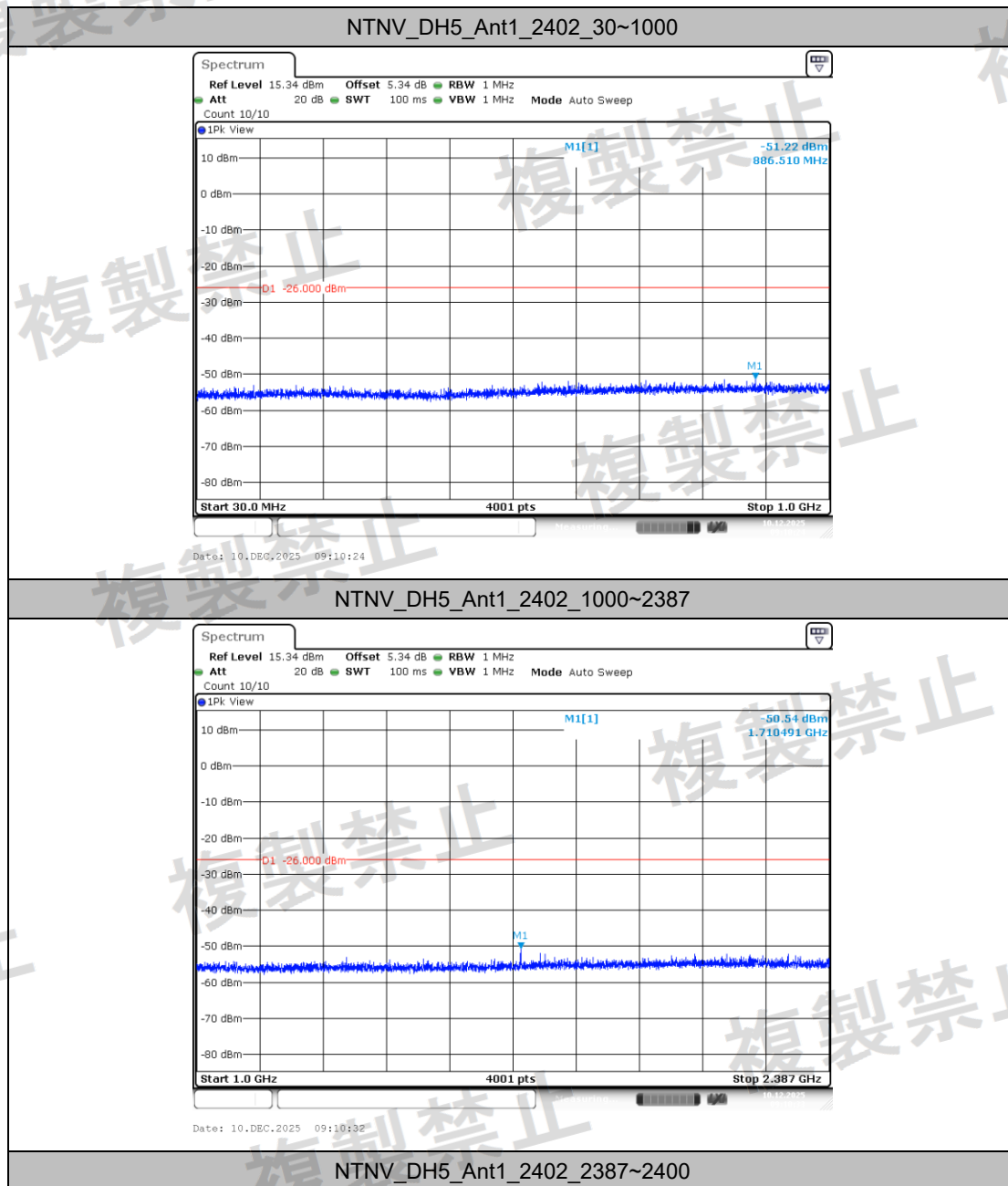
Appendix D: Spurious Emission of TX

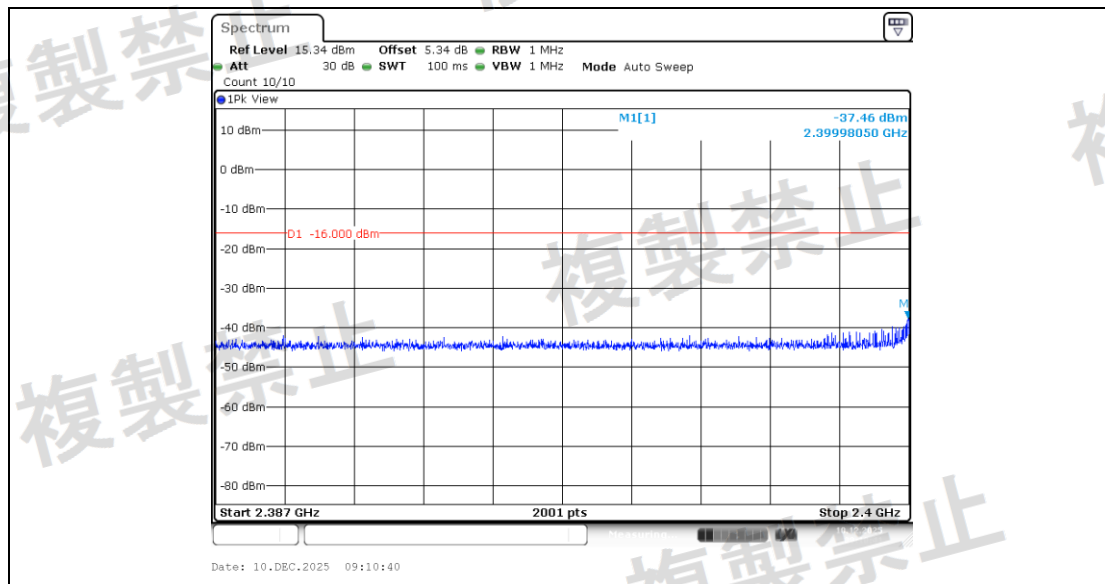
Test Result

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	886.51	-51.22	≤-26	0.00755	≤2.5	PASS
				1000~2387	1710.49	-50.54	≤-26	0.00883	≤2.5	PASS
				2387~2400	2399.98	-37.46	≤-16	0.17947	≤25	PASS
				2483.5~2496.5	2489.99	-41.99	≤-16	0.06324	≤25	PASS
				2496.5~13000	6742.01	-47.71	≤-26	0.01694	≤2.5	PASS
			2441	30~1000	747.80	-50.88	≤-26	0.00817	≤2.5	PASS
				1000~2387	1766.32	-52.12	≤-26	0.00614	≤2.5	PASS
				2387~2400	2388.78	-41.68	≤-16	0.06792	≤25	PASS
				2483.5~2496.5	2495.93	-41.87	≤-16	0.06501	≤25	PASS
				2496.5~13000	6973.09	-47.37	≤-26	0.01832	≤2.5	PASS
			2480	30~1000	886.03	-50.77	≤-26	0.00838	≤2.5	PASS
				1000~2387	1754.87	-51.51	≤-26	0.00706	≤2.5	PASS
				2387~2400	2397.76	-42.44	≤-16	0.05702	≤25	PASS
				2483.5~2496.5	2483.51	-38.41	≤-16	0.14421	≤25	PASS
				2496.5~13000	6958.39	-47.74	≤-26	0.01683	≤2.5	PASS
	2DH5	Ant1	2402	30~1000	865.90	-51.28	≤-26	0.00745	≤2.5	PASS
				1000~2387	1976.10	-51.81	≤-26	0.00659	≤2.5	PASS
				2387~2400	2399.99	-35.96	≤-16	0.25351	≤25	PASS
				2483.5~2496.5	2486.20	-41.83	≤-16	0.06561	≤25	PASS
				2496.5~13000	6870.16	-46.80	≤-26	0.02089	≤2.5	PASS
			2441	30~1000	946.17	-51.32	≤-26	0.00738	≤2.5	PASS
				1000~2387	1833.93	-52.49	≤-26	0.00564	≤2.5	PASS
				2387~2400	2390.47	-42.18	≤-16	0.06053	≤25	PASS
				2483.5~2496.5	2493.50	-41.47	≤-16	0.07129	≤25	PASS
				2496.5~13000	6254.13	-47.37	≤-26	0.01832	≤2.5	PASS
			2480	30~1000	879.48	-51.75	≤-26	0.00668	≤2.5	PASS
				1000~2387	1731.99	-50.98	≤-26	0.00798	≤2.5	PASS
				2387~2400	2393.14	-42.17	≤-16	0.06067	≤25	PASS
				2483.5~2496.5	2484.64	-38.18	≤-16	0.15205	≤25	PASS
				2496.5~13000	6915.85	-47.70	≤-26	0.01698	≤2.5	PASS
	3DH5	Ant1	2402	30~1000	796.30	-51.20	≤-26	0.00759	≤2.5	PASS
				1000~2387	2108.56	-52.13	≤-26	0.00612	≤2.5	PASS
				2387~2400	2399.99	-35.83	≤-16	0.26122	≤25	PASS
				2483.5~2496.5	2486.52	-41.26	≤-16	0.07482	≤25	PASS
				2496.5~13000	6897.47	-47.93	≤-26	0.01611	≤2.5	PASS
			2441	30~1000	959.02	-51.33	≤-26	0.00736	≤2.5	PASS
				1000~2387	2052.73	-52.29	≤-26	0.00590	≤2.5	PASS

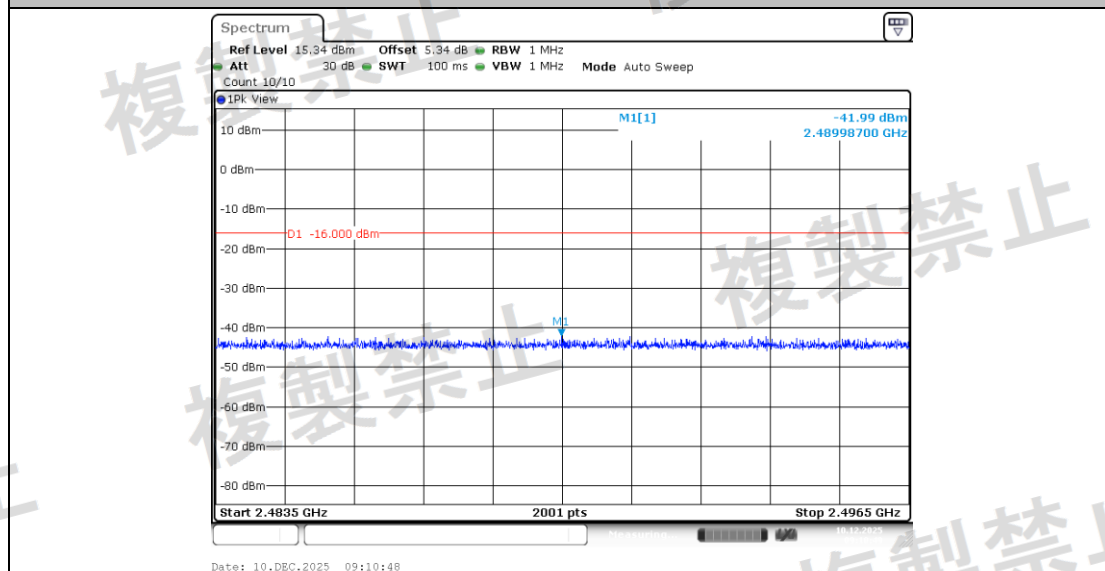
			2387~2400	2391.82	-41.75	≤-16	0.06683	≤25	PASS
			2483.5~2496.5	2492.16	-40.93	≤-16	0.08072	≤25	PASS
			2496.5~13000	6784.55	-47.87	≤-26	0.01633	≤2.5	PASS
		2480	30~1000	230.31	-50.80	≤-26	0.00832	≤2.5	PASS
			1000~2387	1754.18	-51.93	≤-26	0.00641	≤2.5	PASS
			2387~2400	2395.28	-41.92	≤-16	0.06427	≤25	PASS
			2483.5~2496.5	2483.53	-38.06	≤-16	0.15631	≤25	PASS
			2496.5~13000	6783.50	-46.59	≤-26	0.02193	≤2.5	PASS

Test Graphs

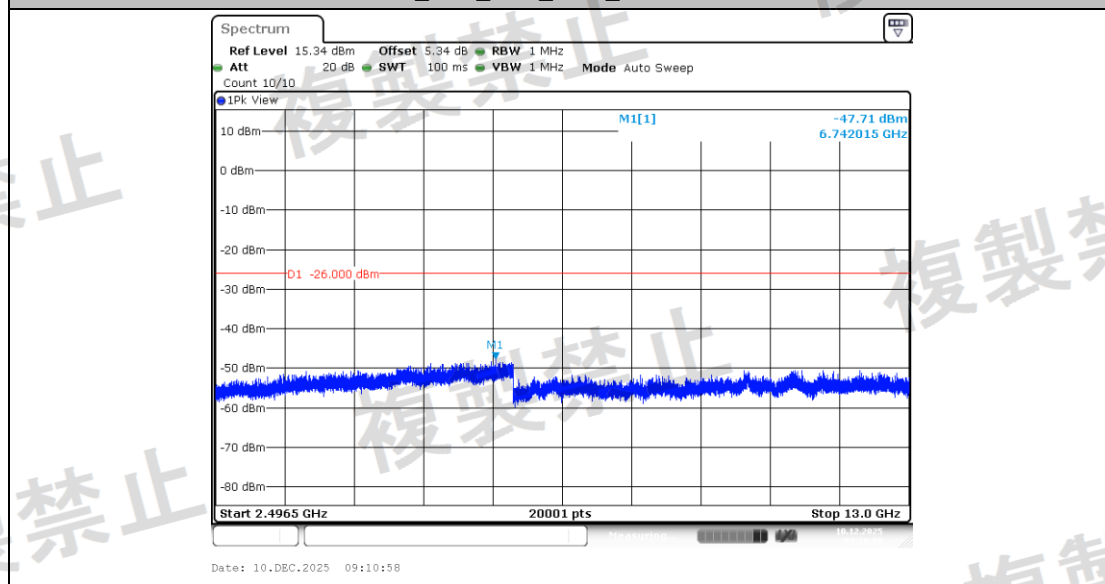


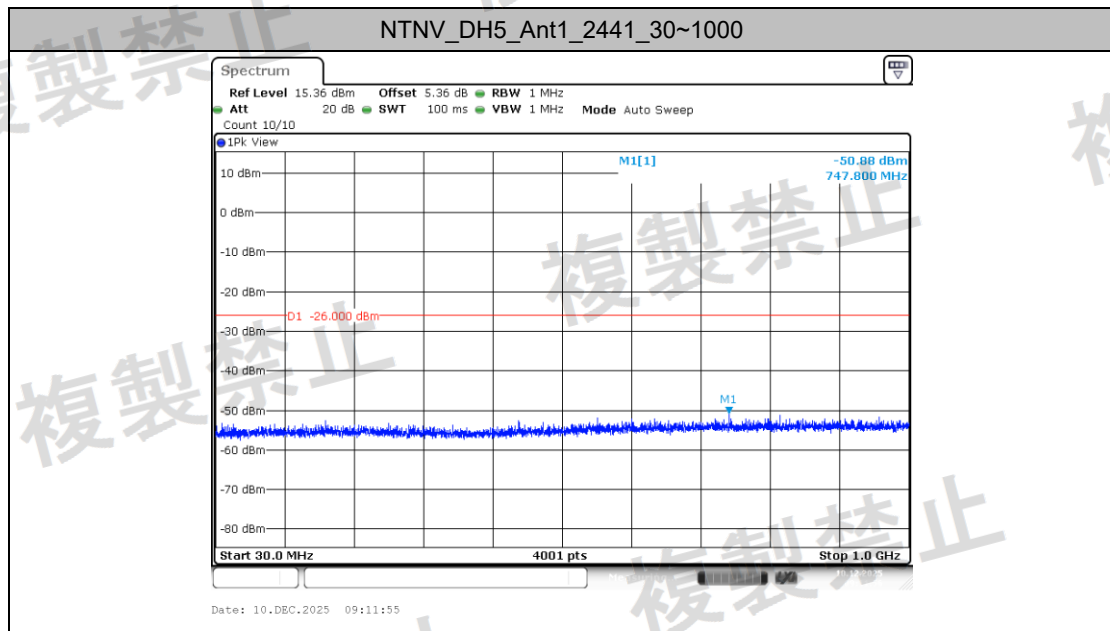
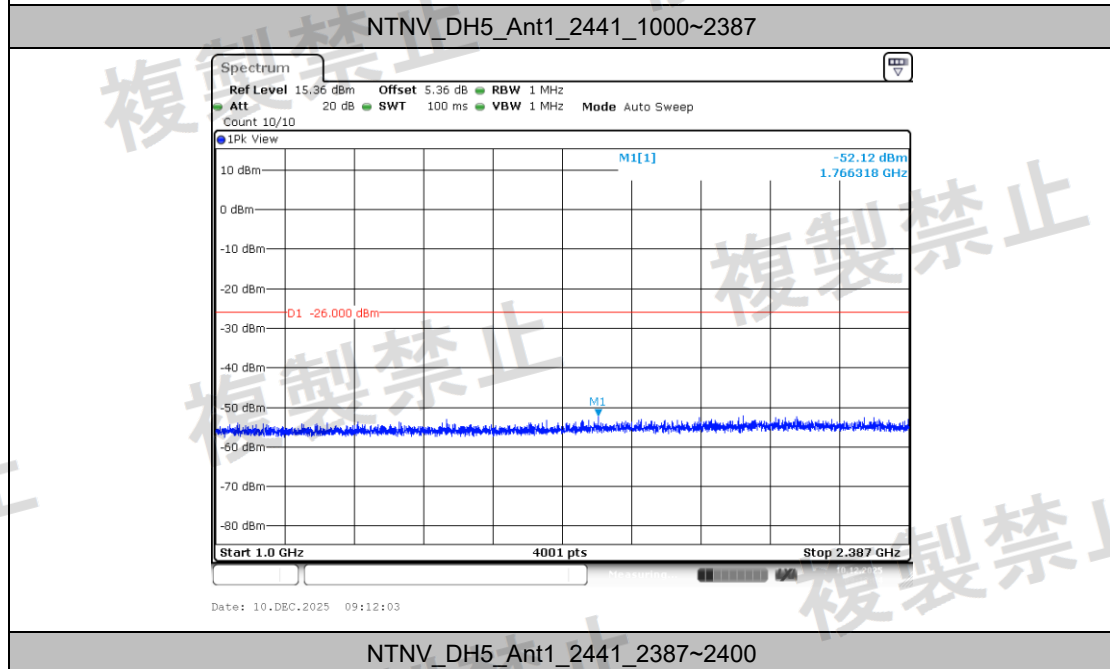
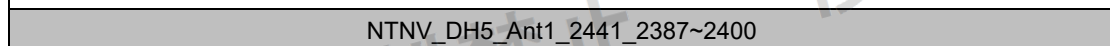


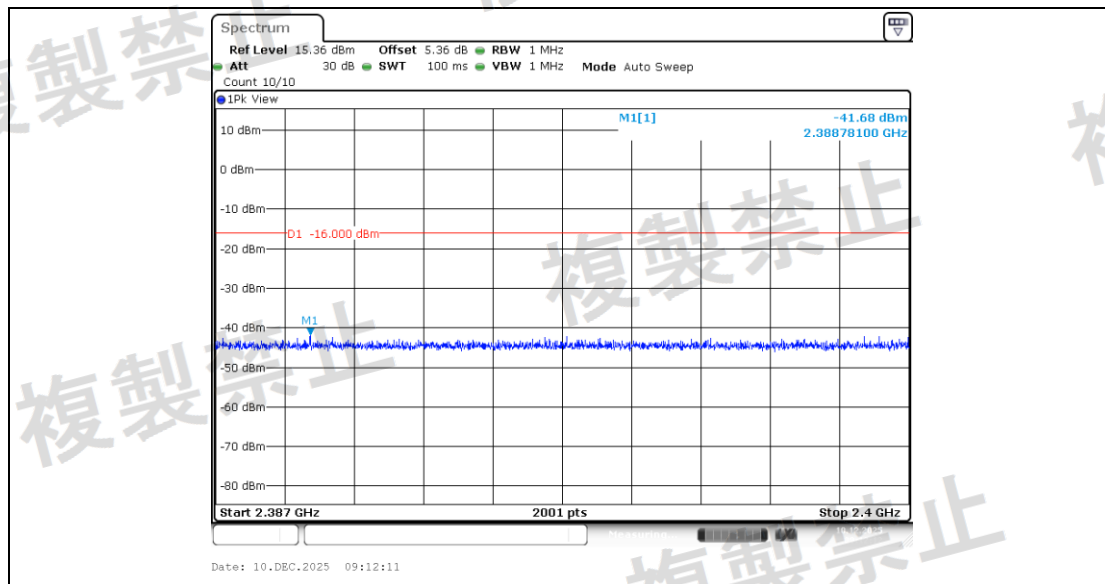
NTNV_DH5_Ant1_2402_2483.5~2496.5



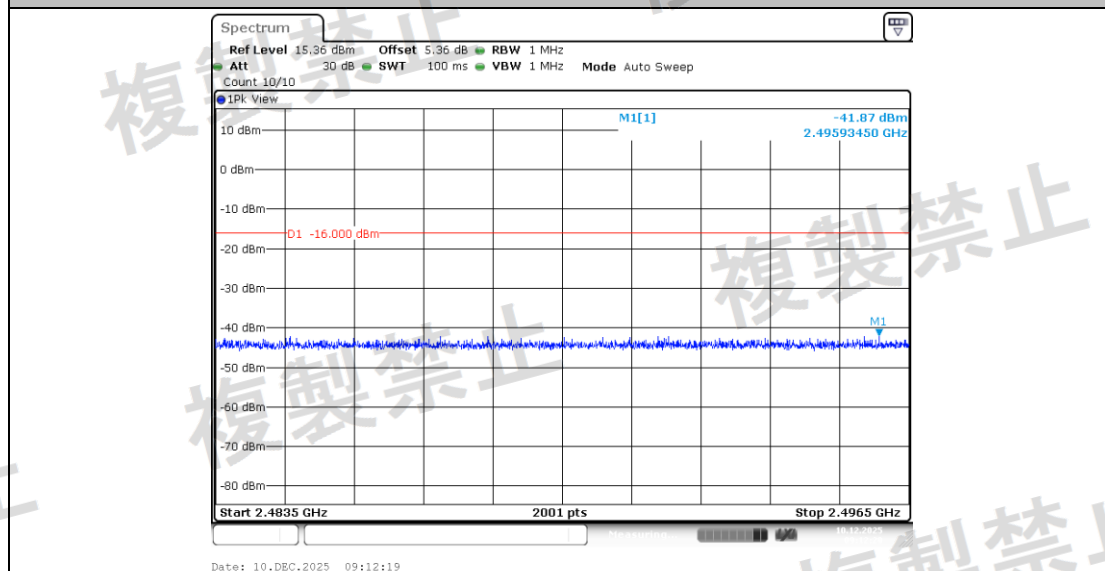
NTNV_DH5_Ant1_2402_2496.5~13000



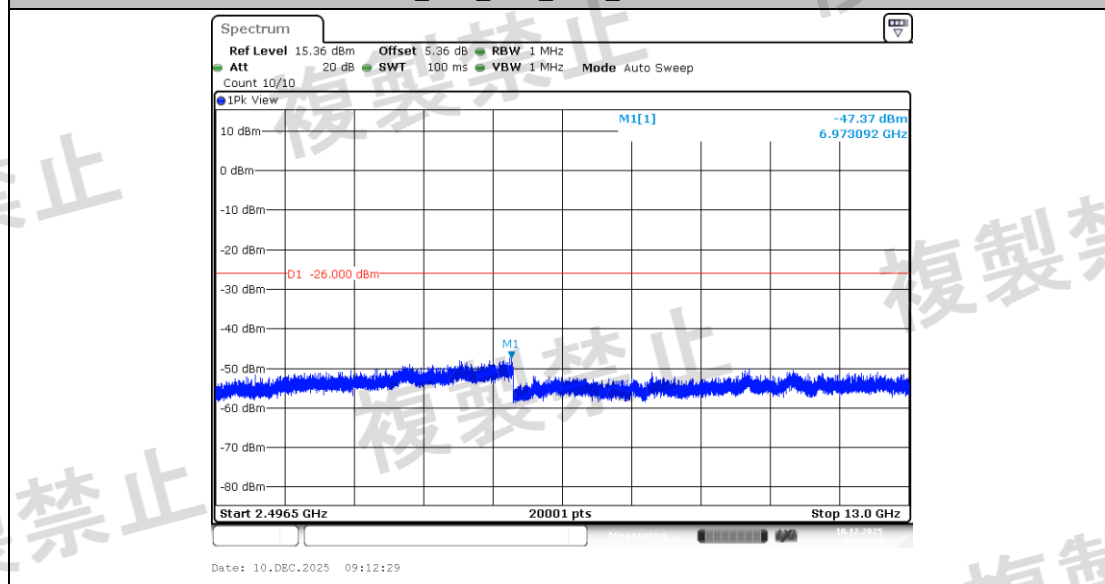


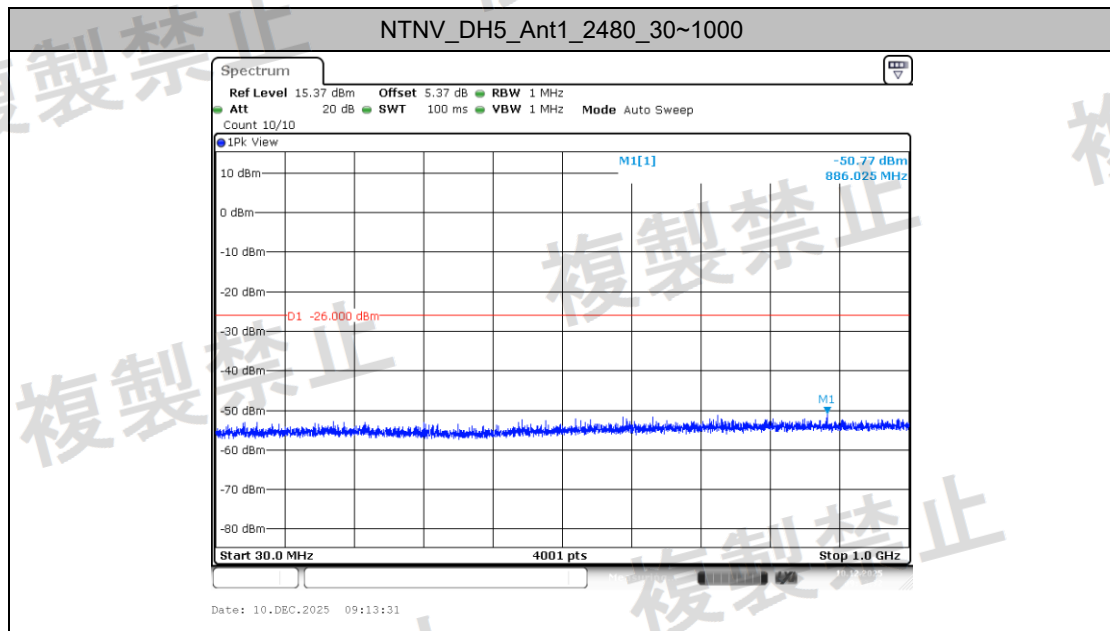
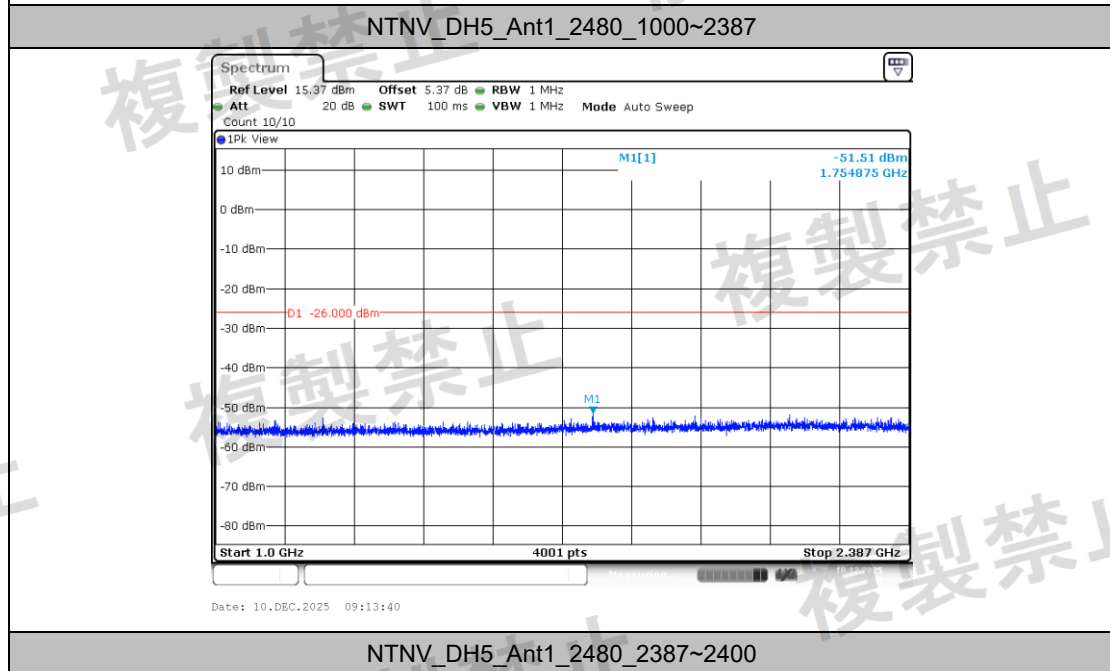


NTNV_DH5_Ant1_2441_2483.5~2496.5

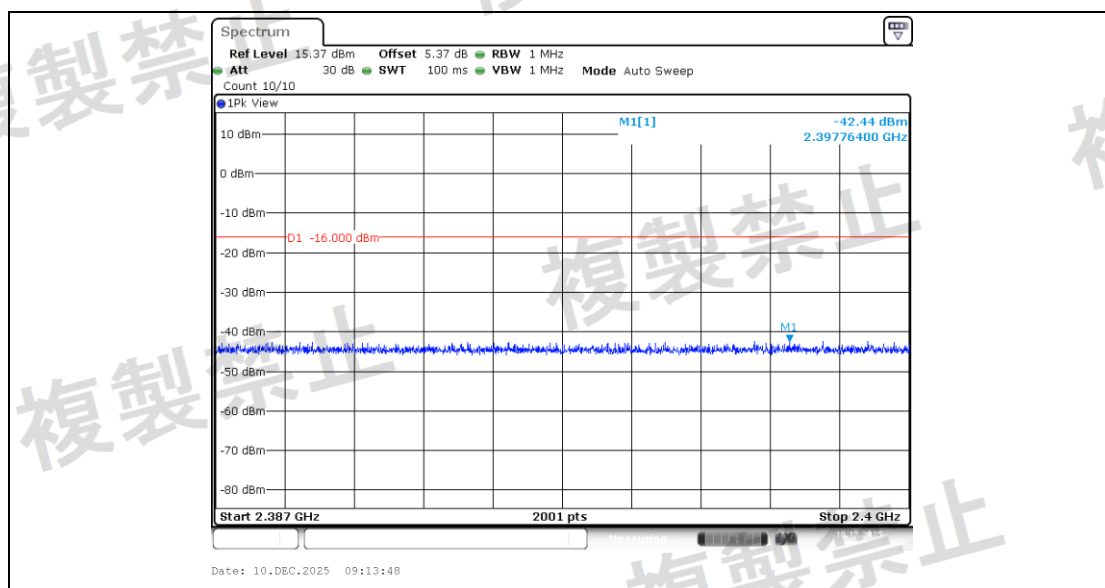


NTNV_DH5_Ant1_2441_2496.5~13000

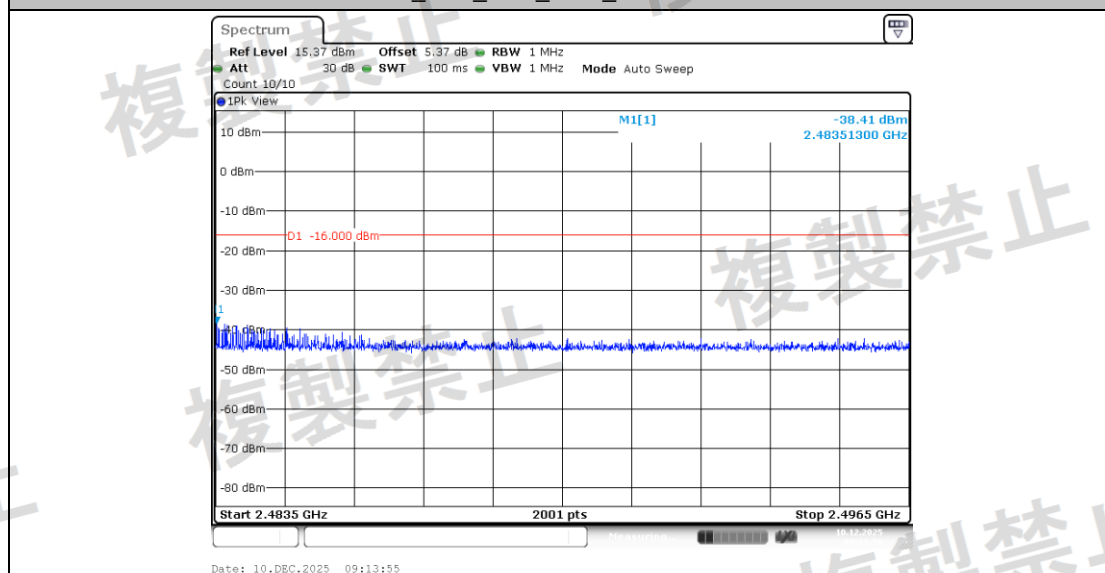




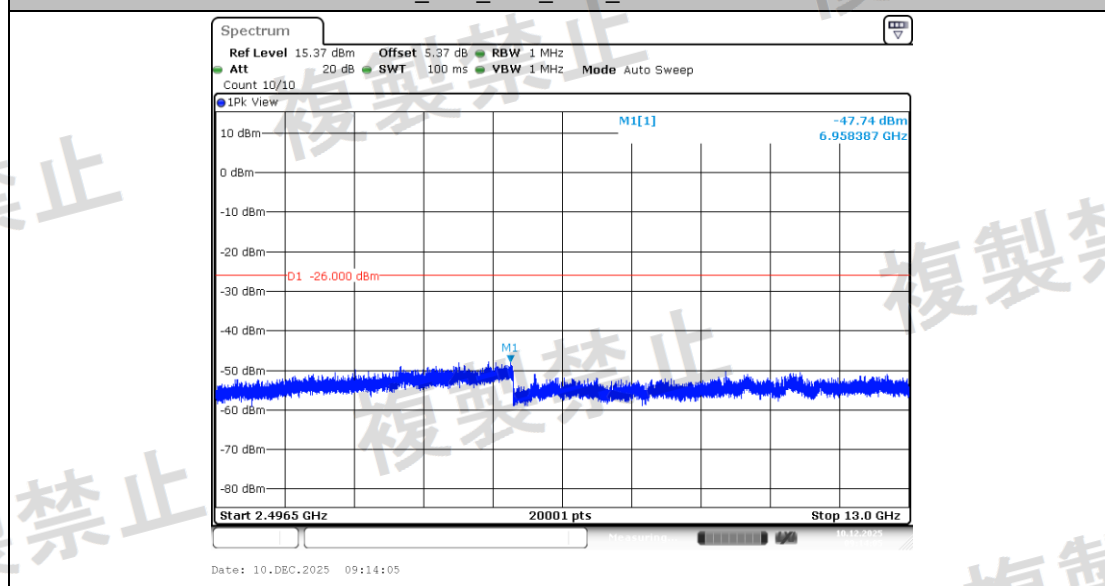
NTNV_DH5_Ant1_2480_2387~2400

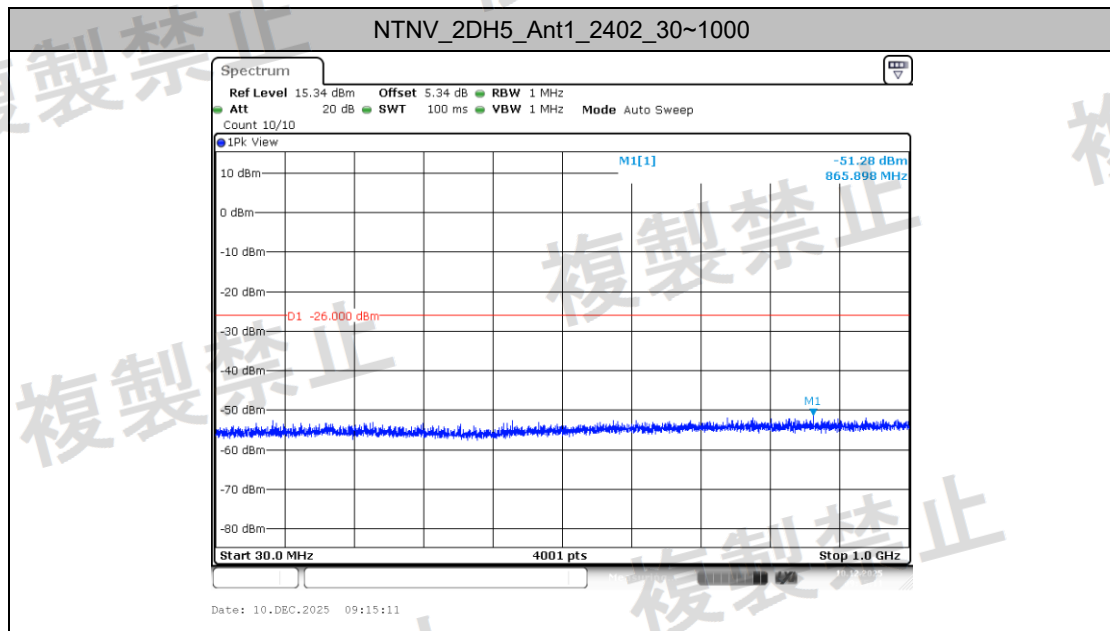
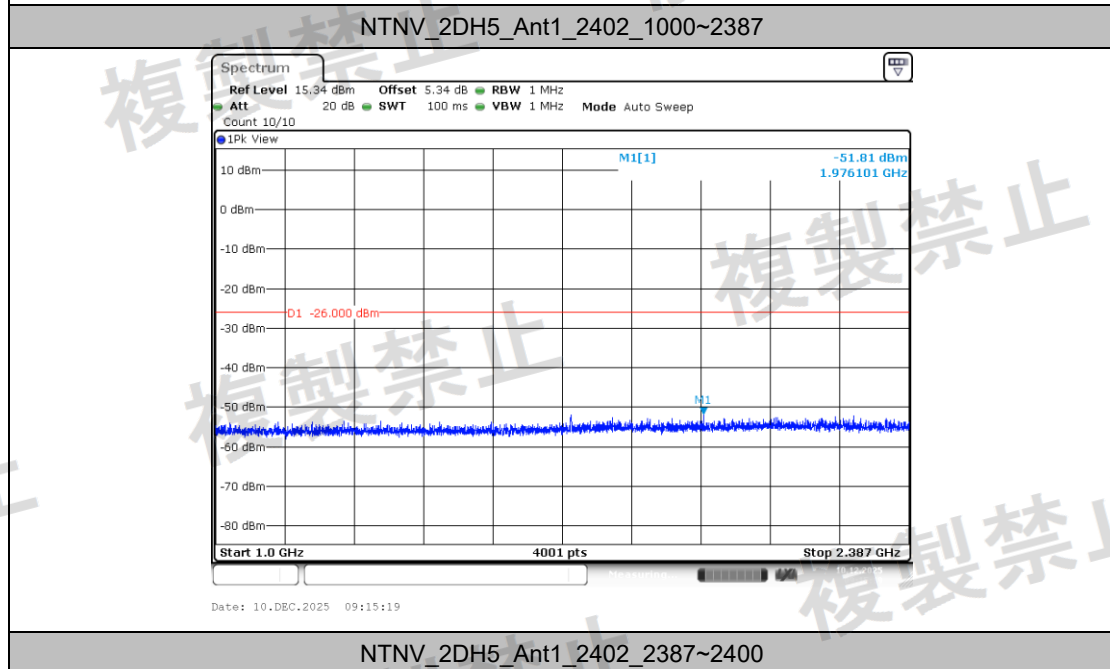


NTNV_DH5_Ant1_2480_2483.5~2496.5

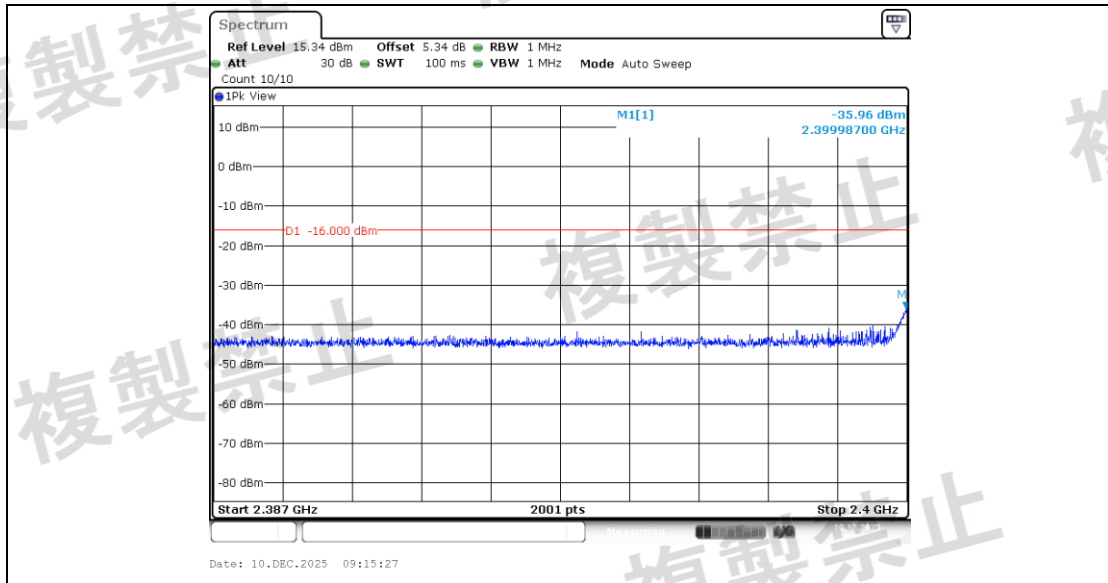


NTNV_DH5_Ant1_2480_2496.5~13000

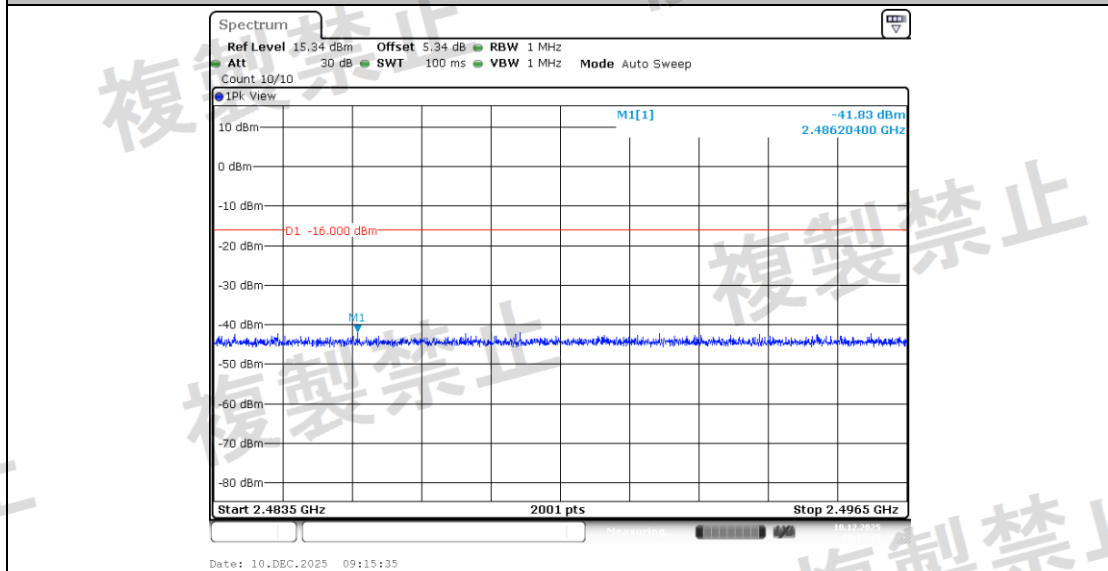




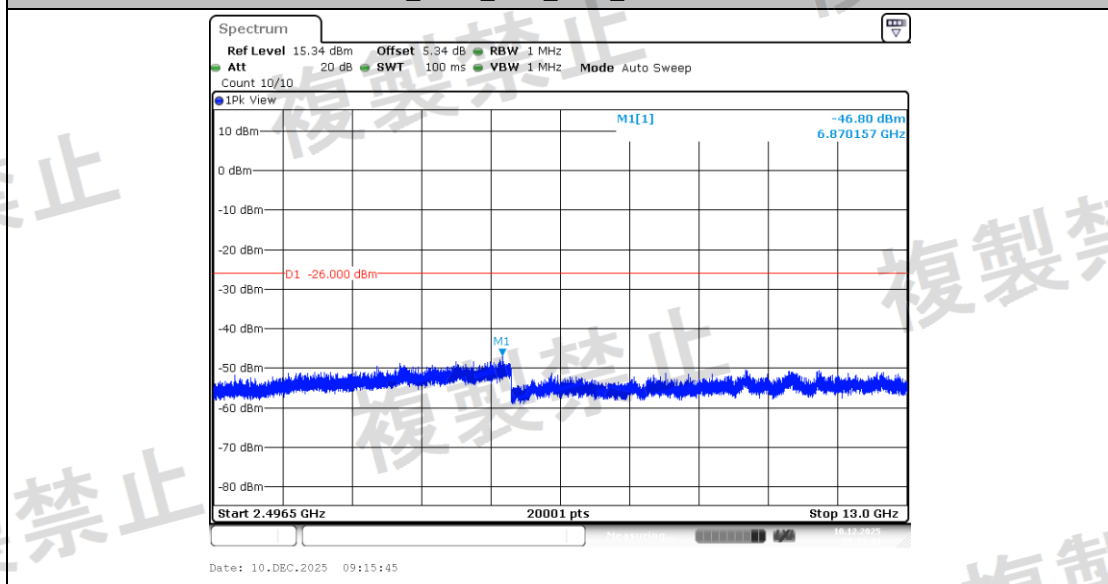
NTNV_2DH5_Ant1_2402_2387~2400

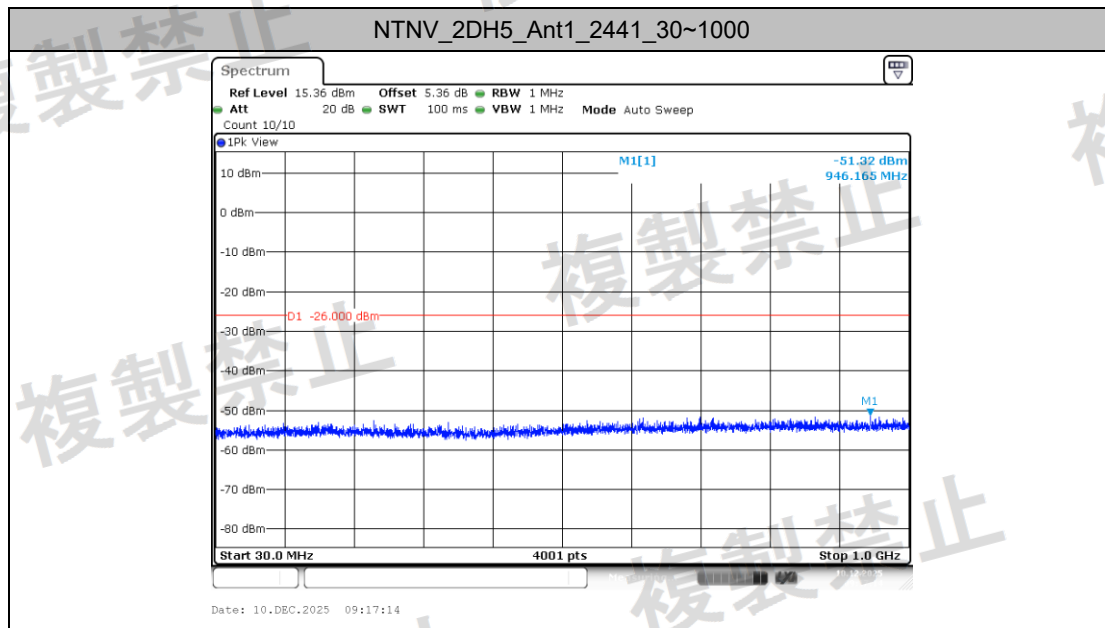
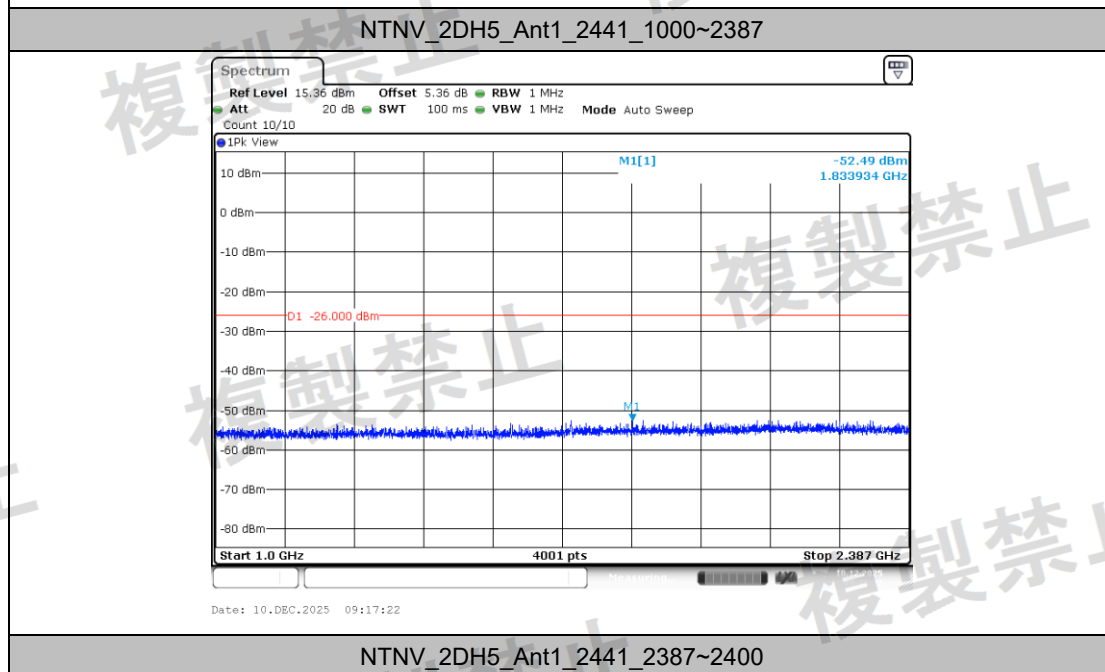


NTNV_2DH5_Ant1_2402_2483.5~2496.5

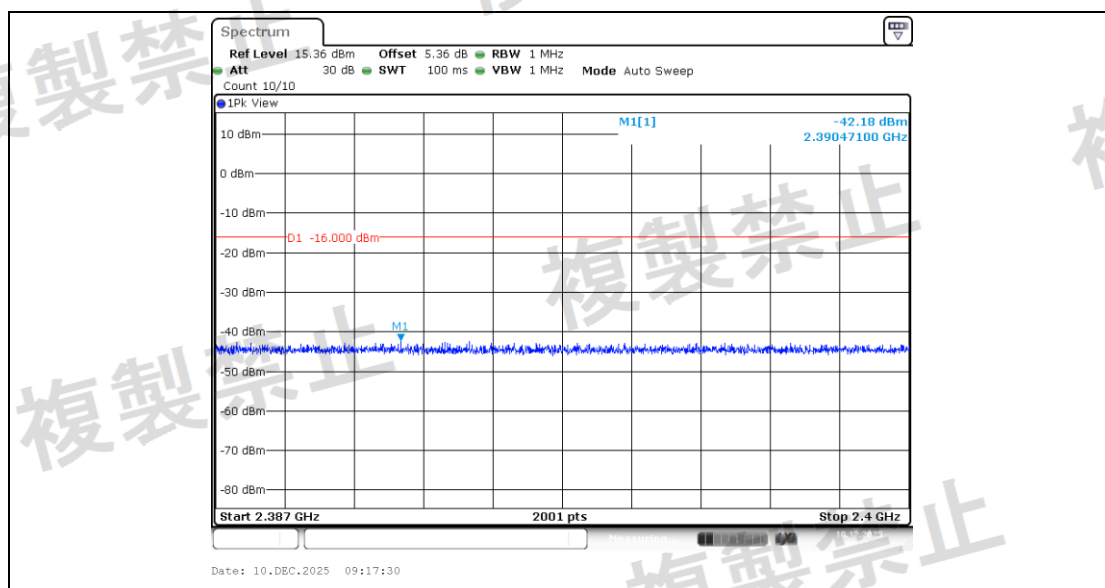


NTNV_2DH5_Ant1_2402_2496.5~13000

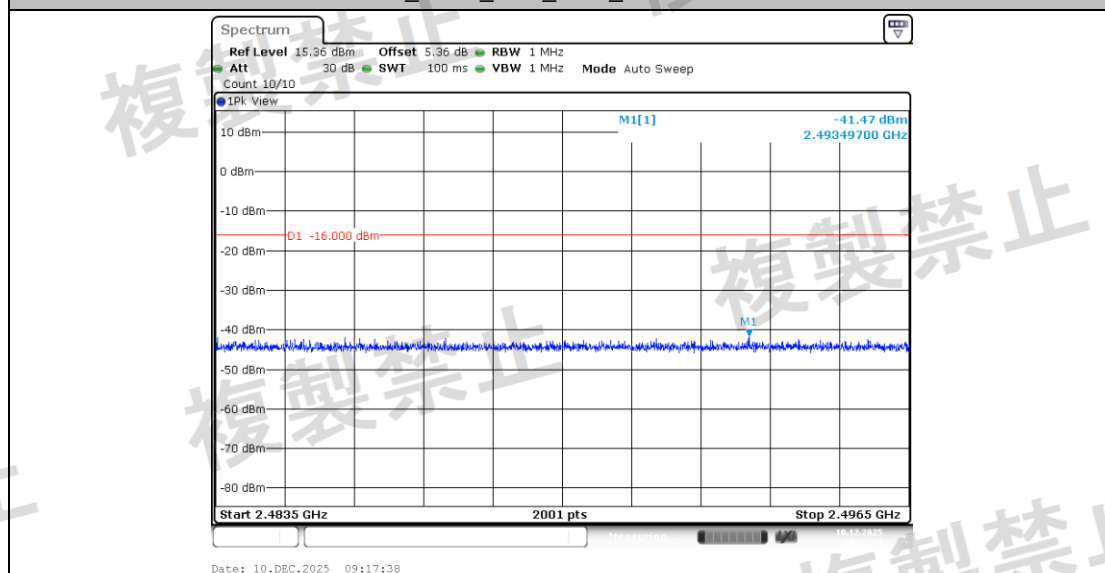




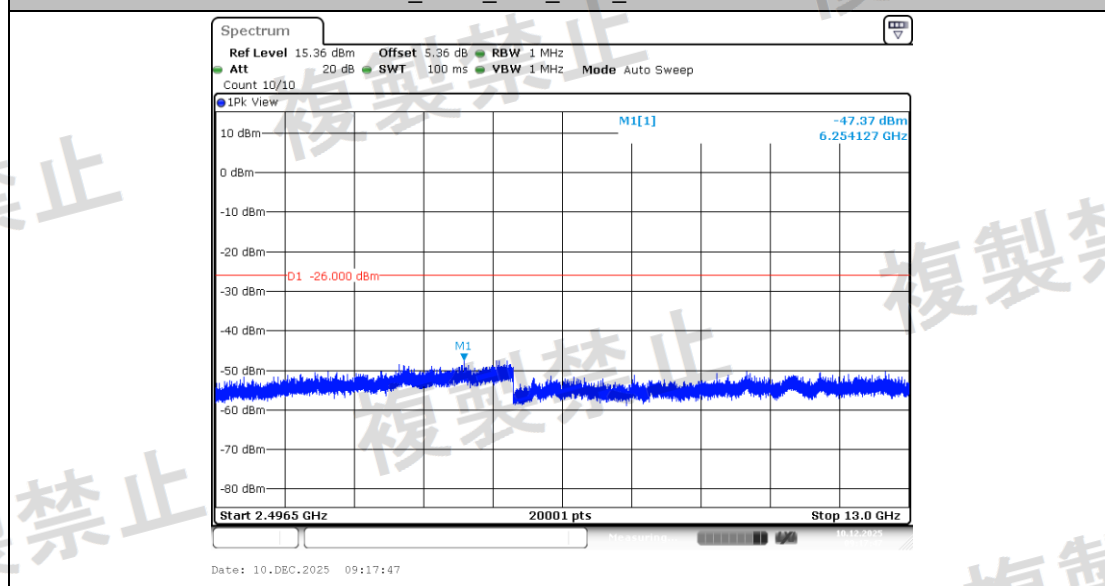
NTNV_2DH5_Ant1_2441_2387~2400

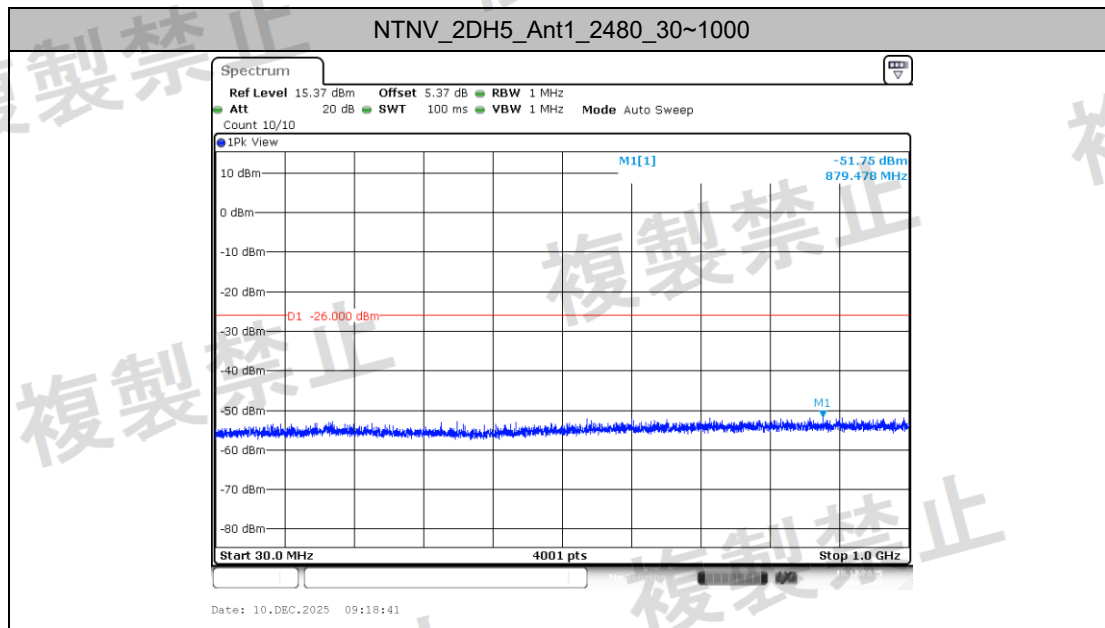
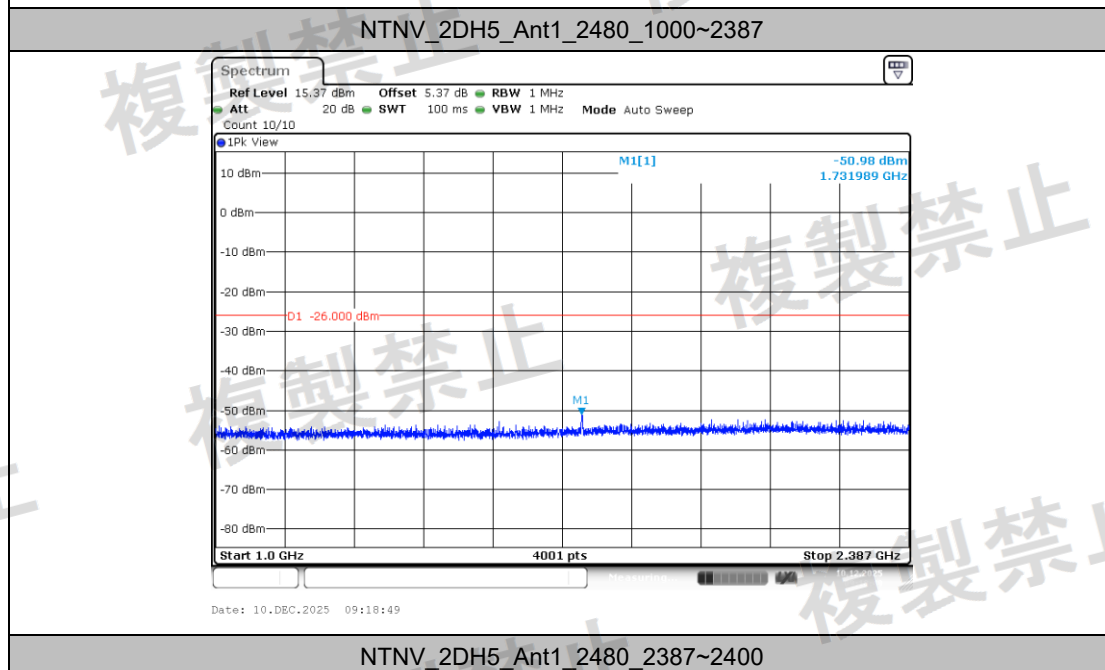


NTVN_2DH5_Ant1_2441_2483.5~2496.5

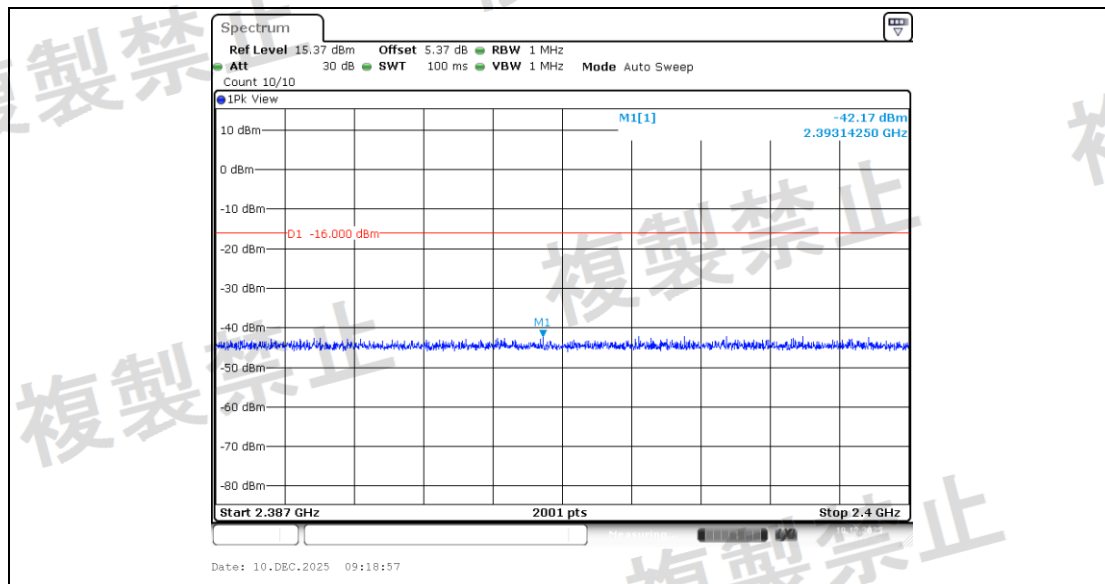


NTVN_2DH5_Ant1_2441_2496.5~13000

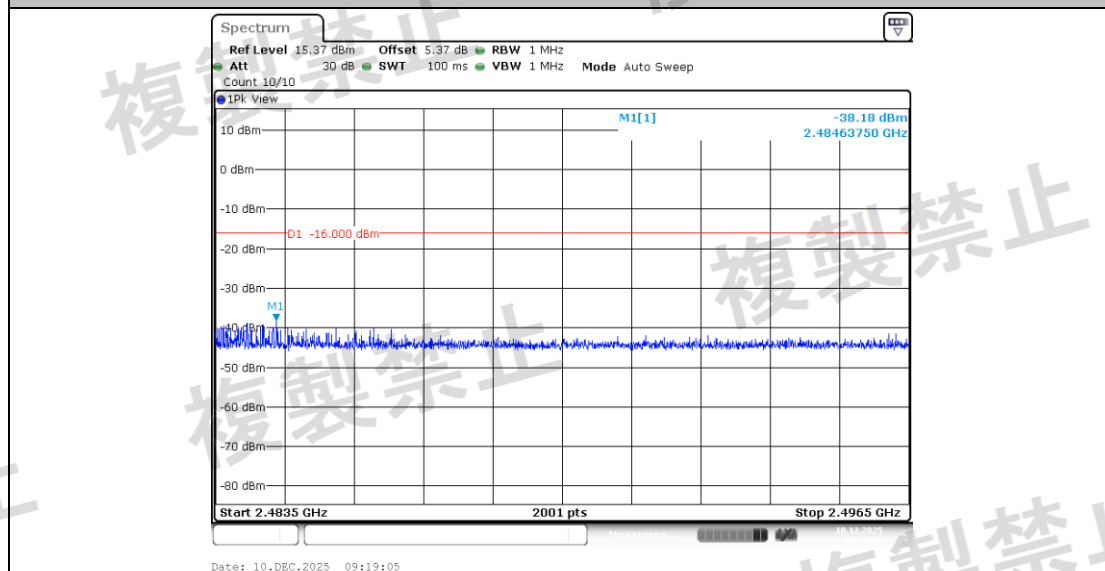




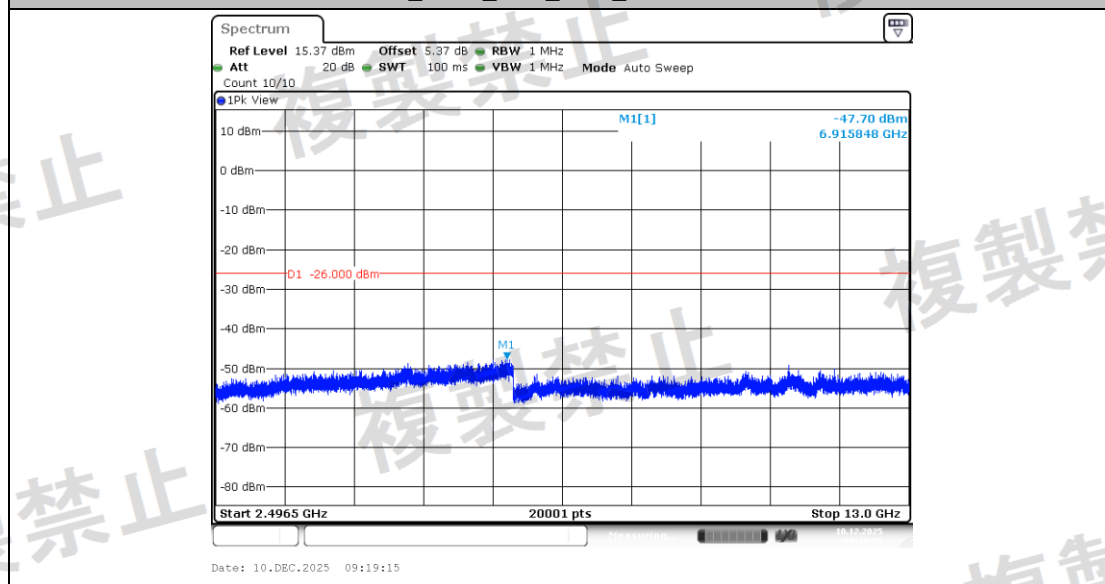
NTNV_2DH5_Ant1_2480_2387~2400

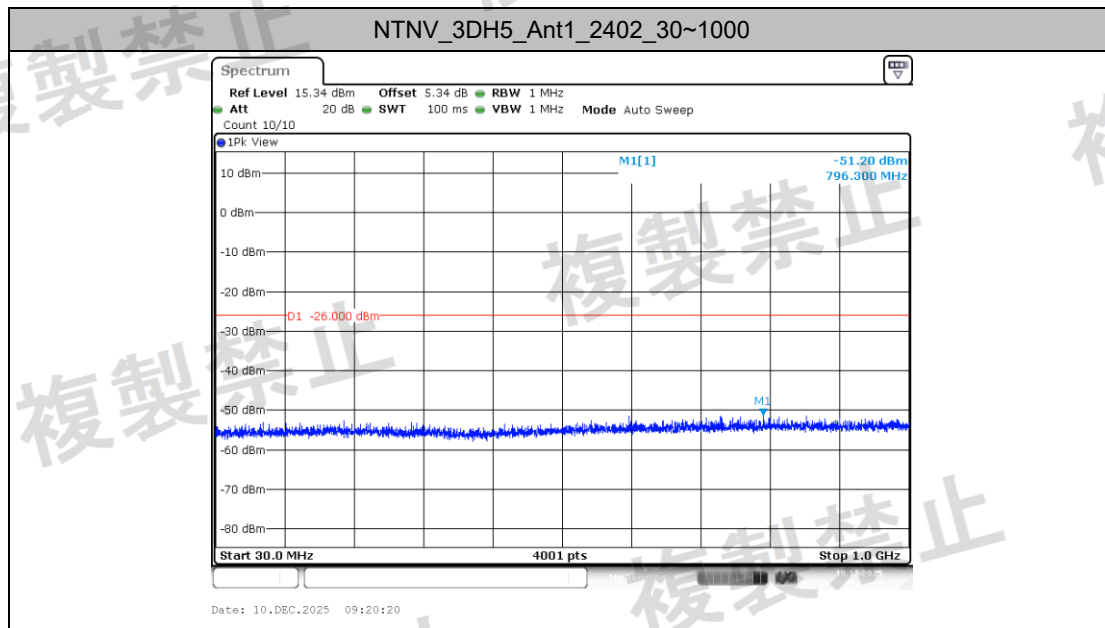
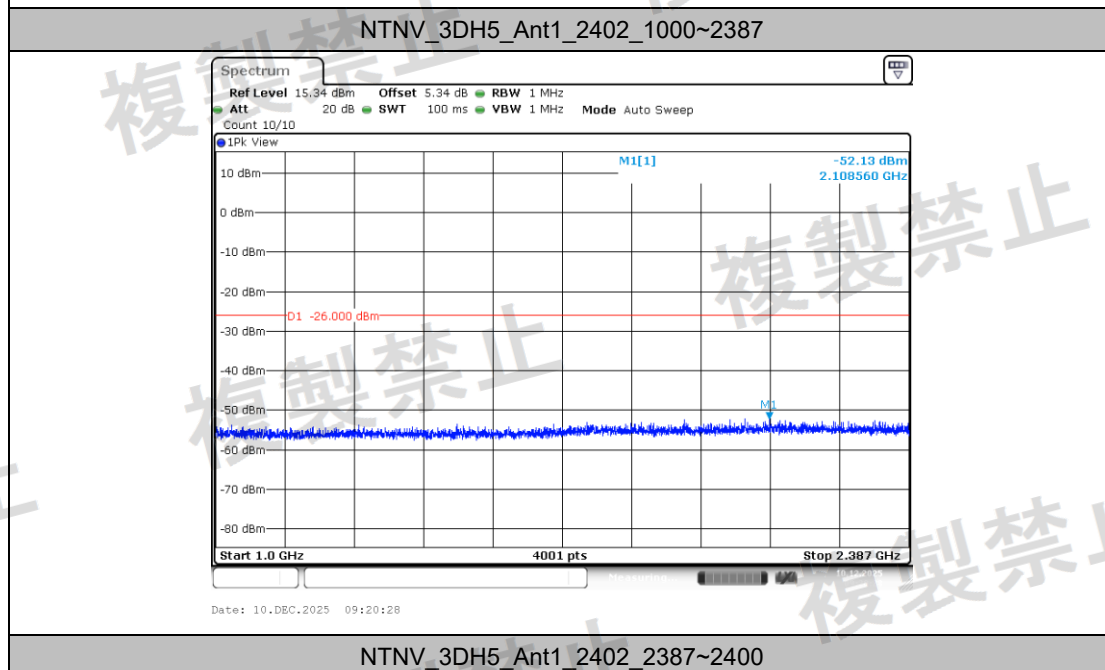


NTVN_2DH5_Ant1_2480_2483.5~2496.5

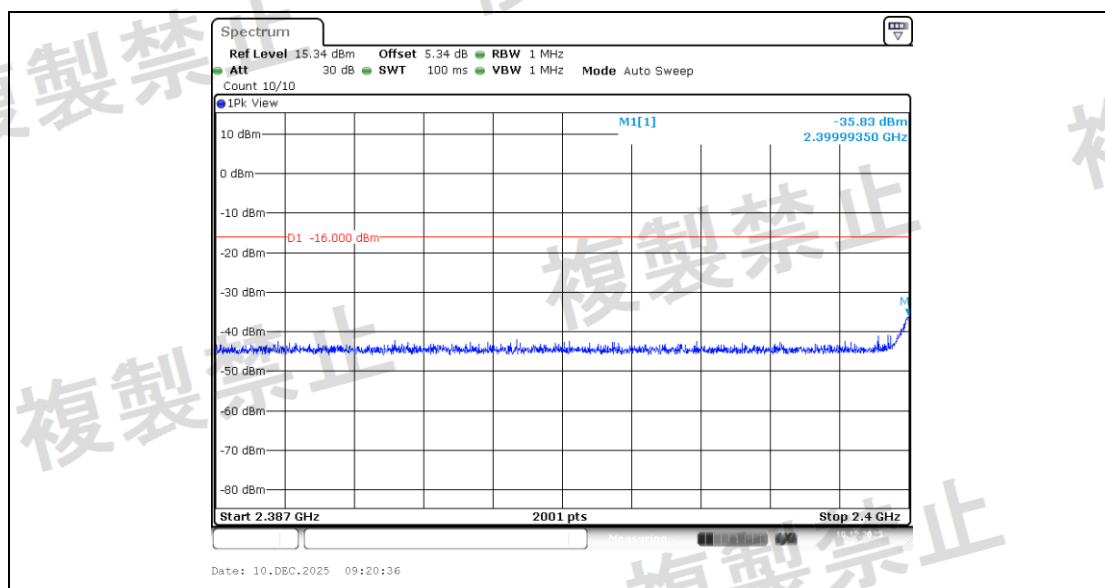


NTVN_2DH5_Ant1_2480_2496.5~13000

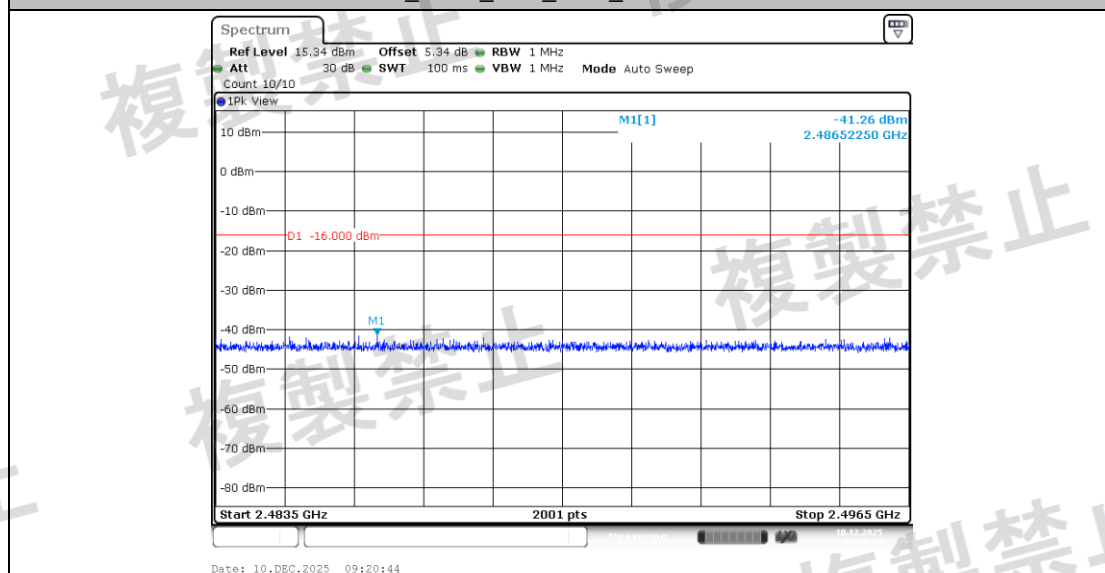




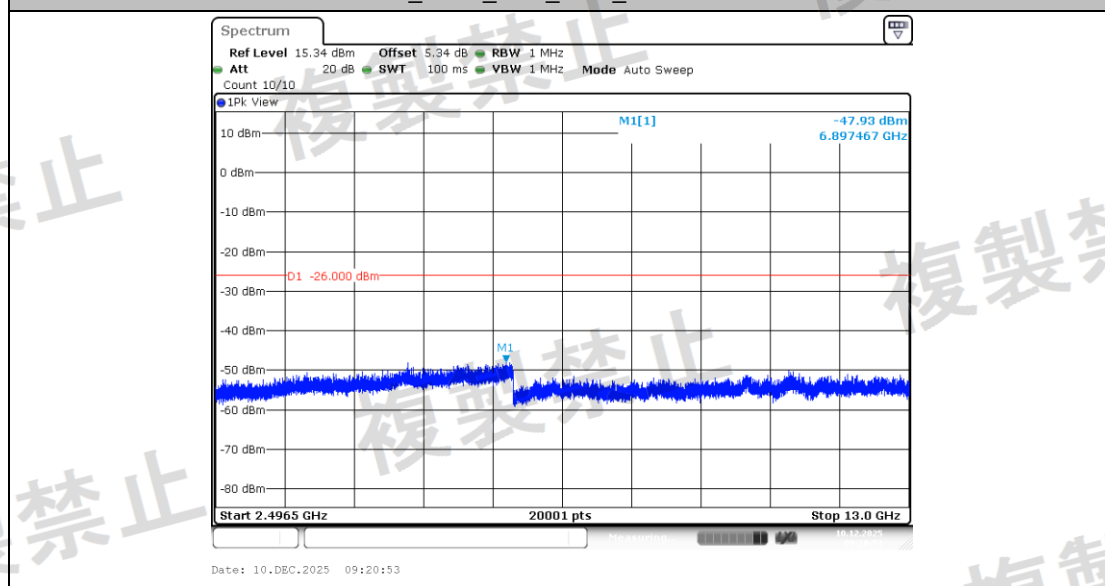
NTNV_3DH5_Ant1_2402_2387~2400

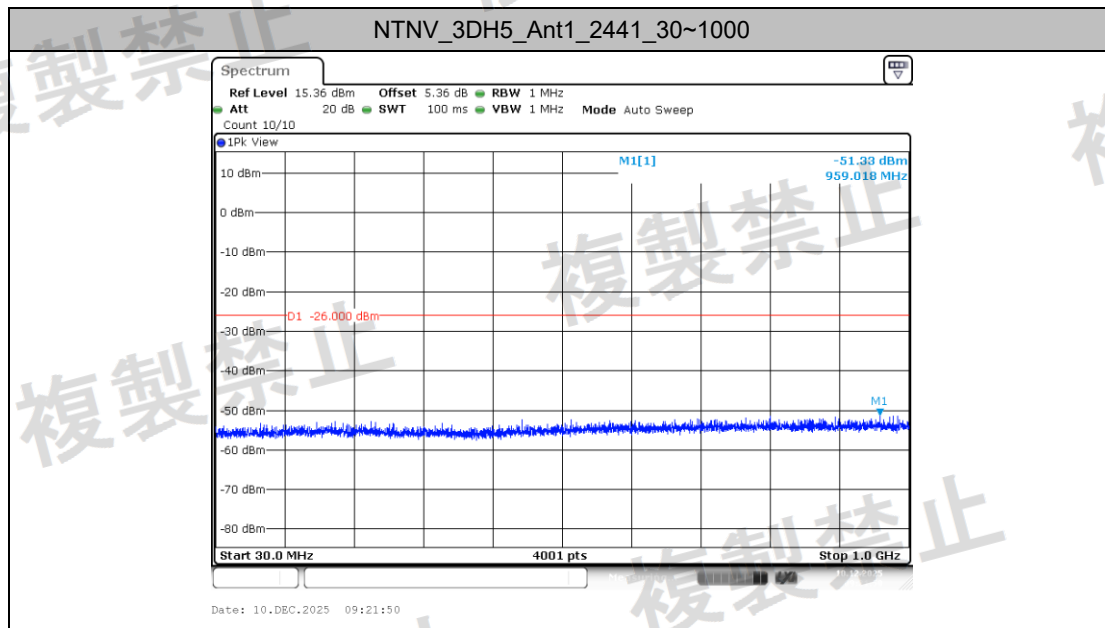
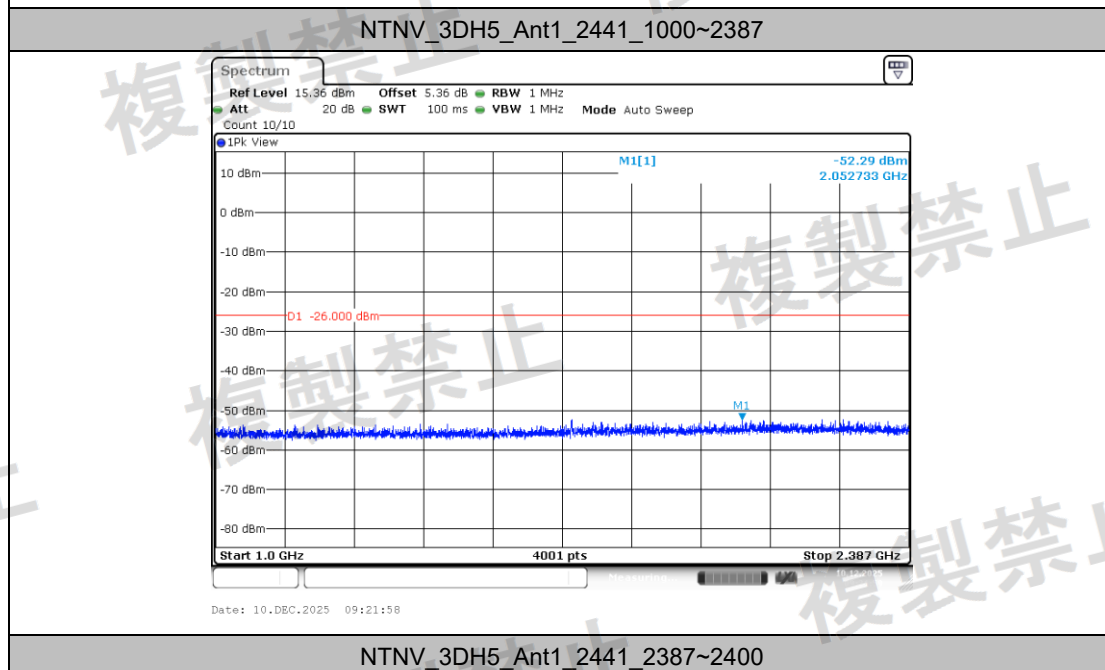
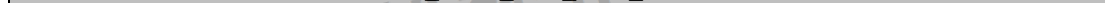


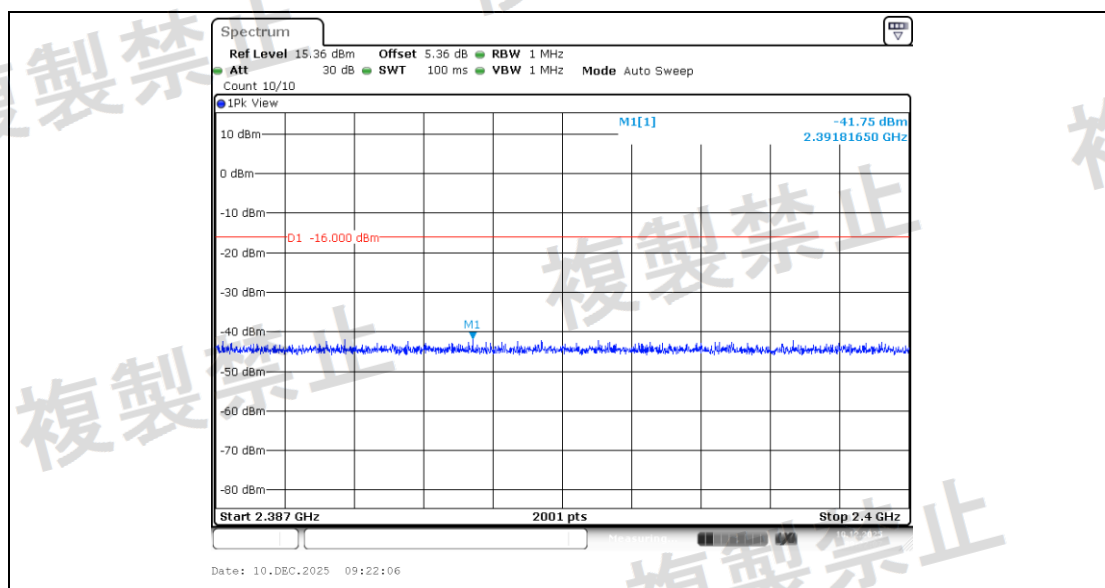
NTNV_3DH5_Ant1_2402_2483.5~2496.5



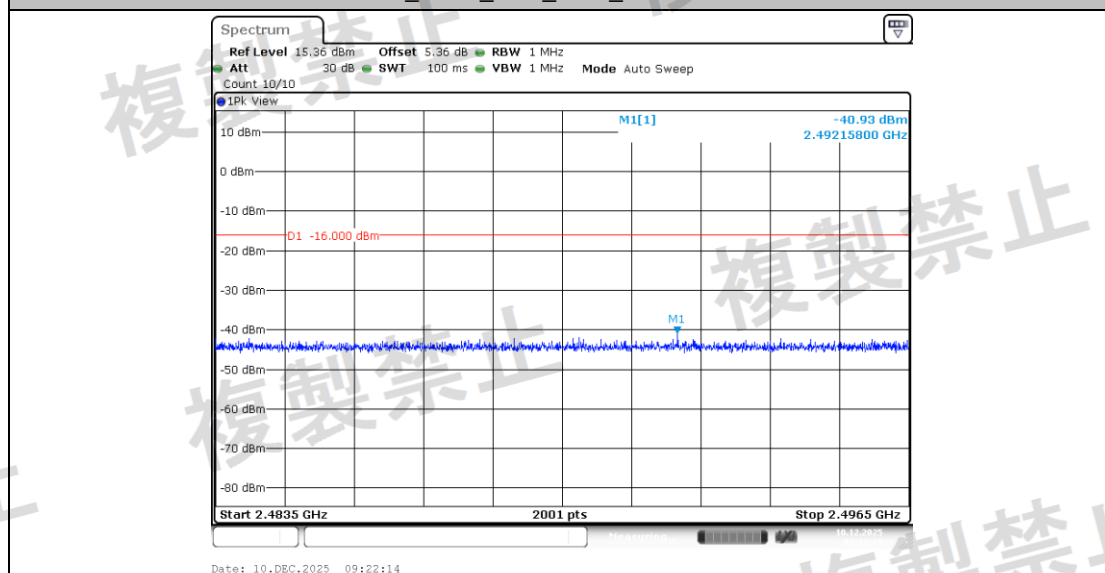
NTNV_3DH5_Ant1_2402_2496.5~13000



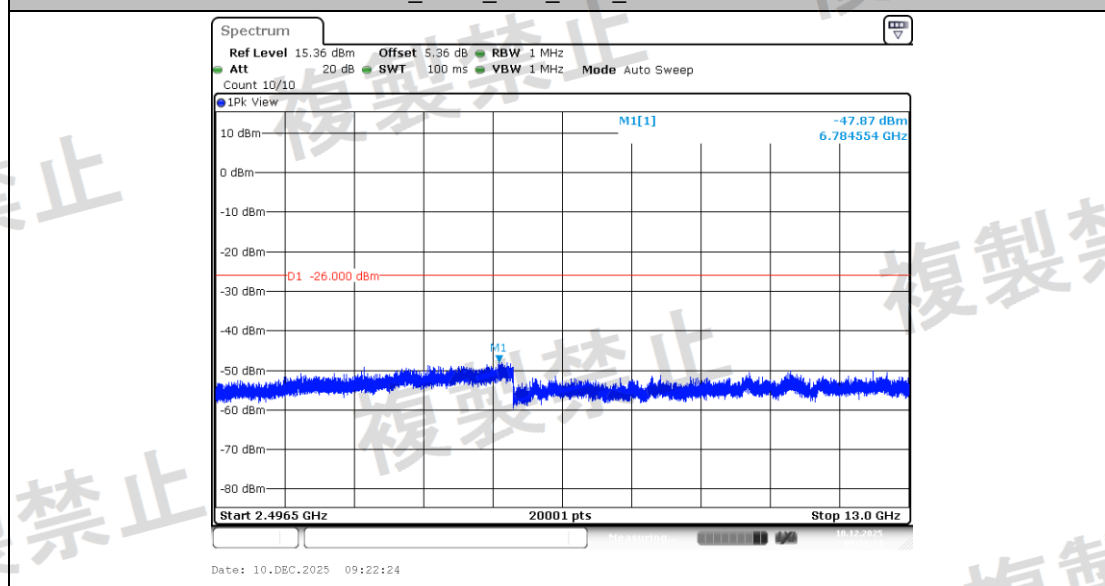


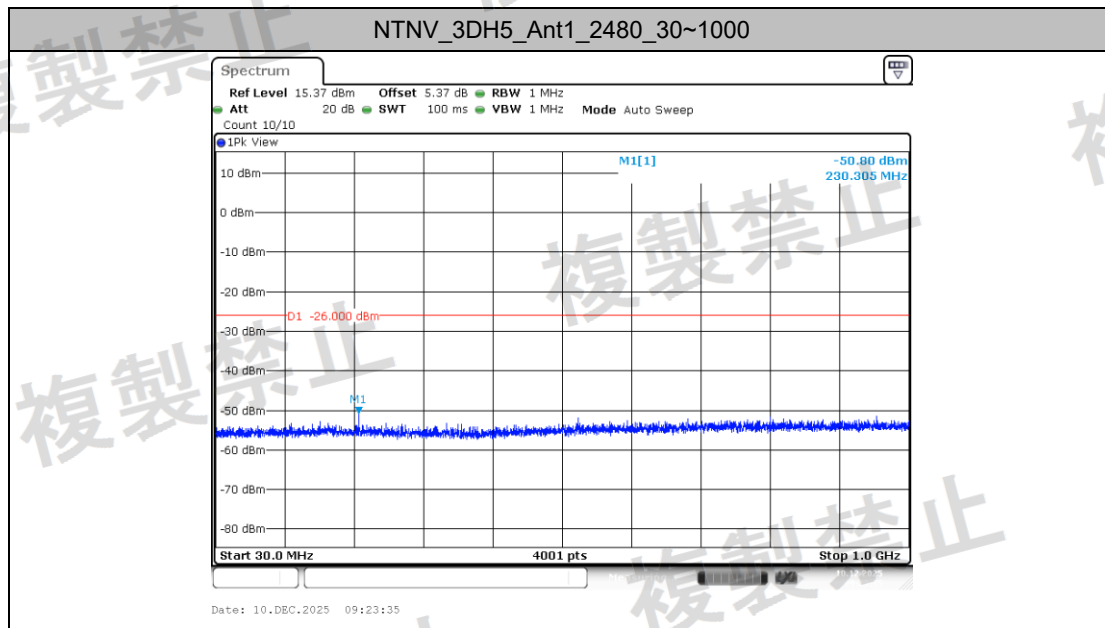
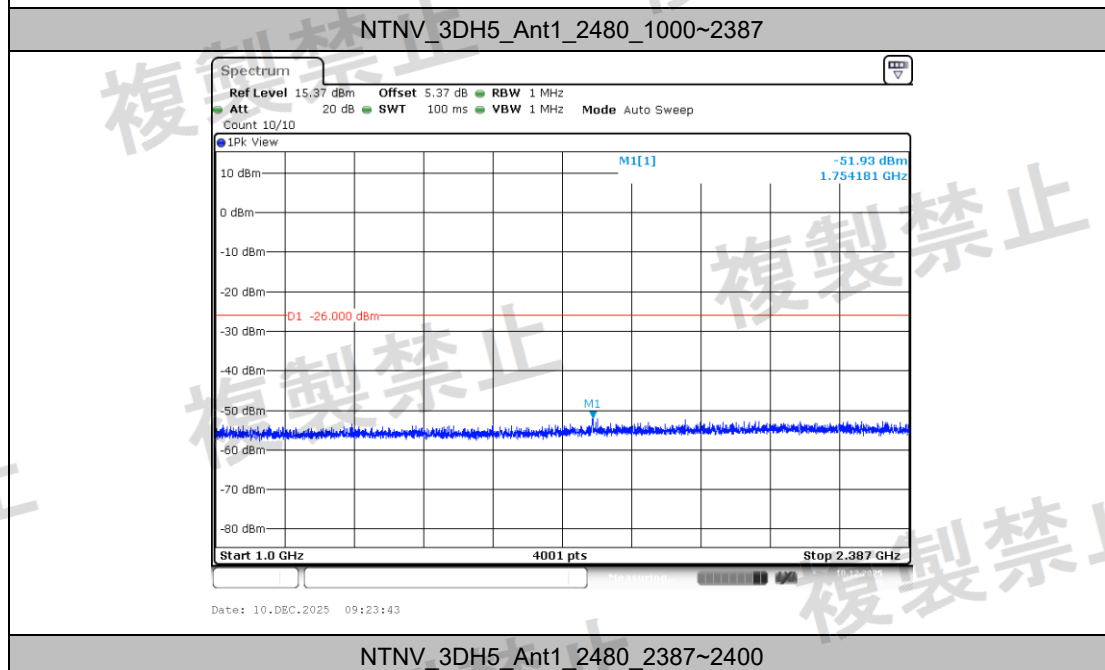


NTNV_3DH5_Ant1_2441_2483.5~2496.5

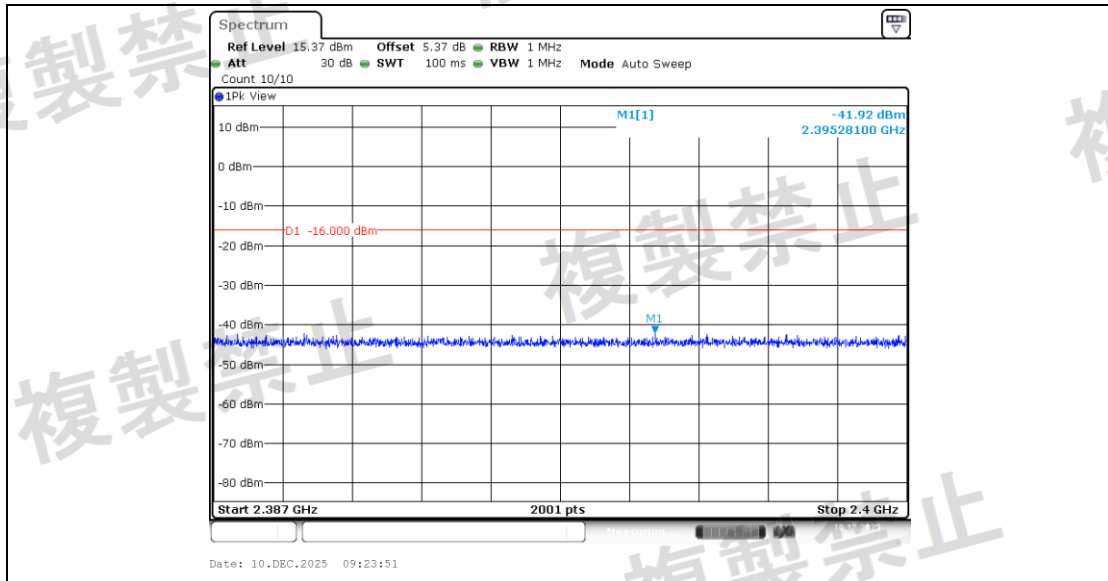


NTNV_3DH5_Ant1_2441_2496.5~13000

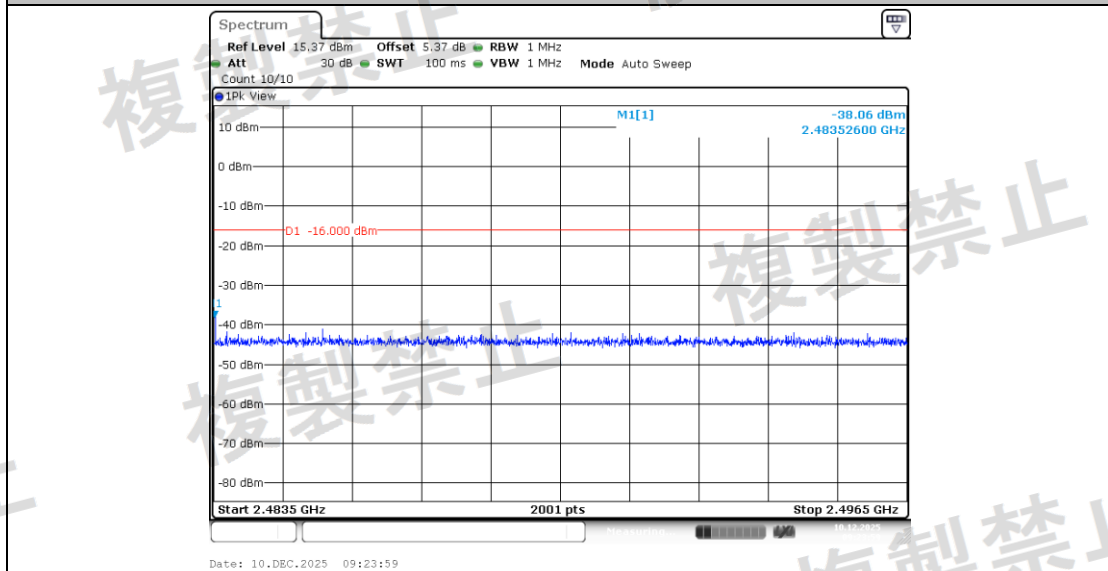




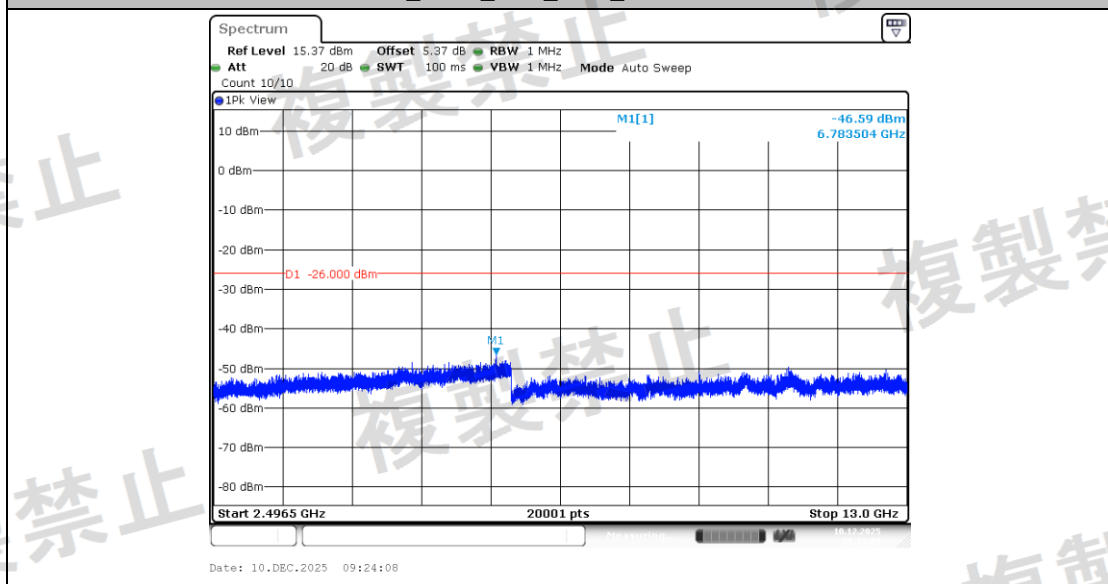
NTNV_3DH5_Ant1_2480_2387~2400



NTNV_3DH5_Ant1_2480_2483.5~2496.5



NTNV_3DH5_Ant1_2480_2496.5~13000

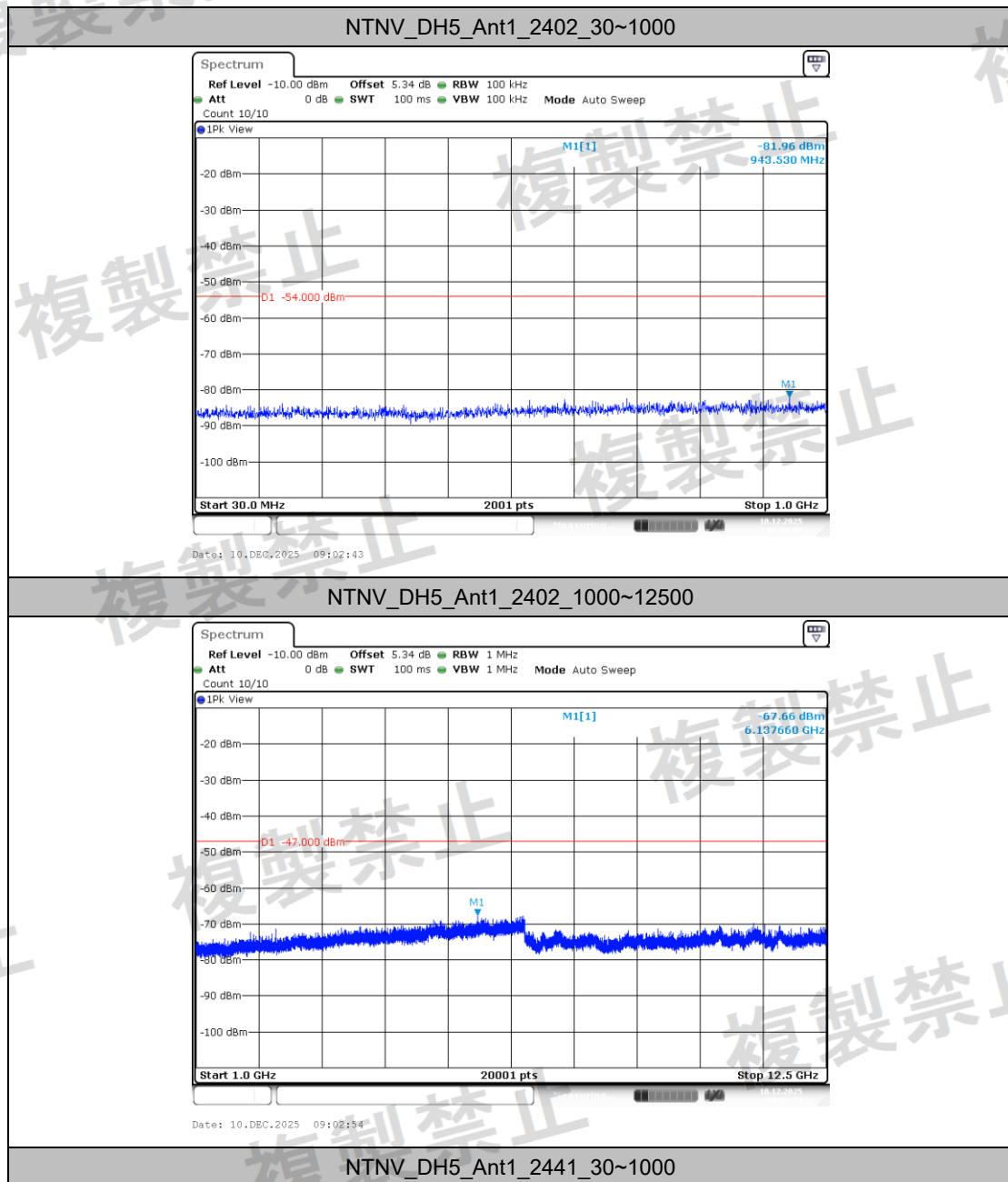


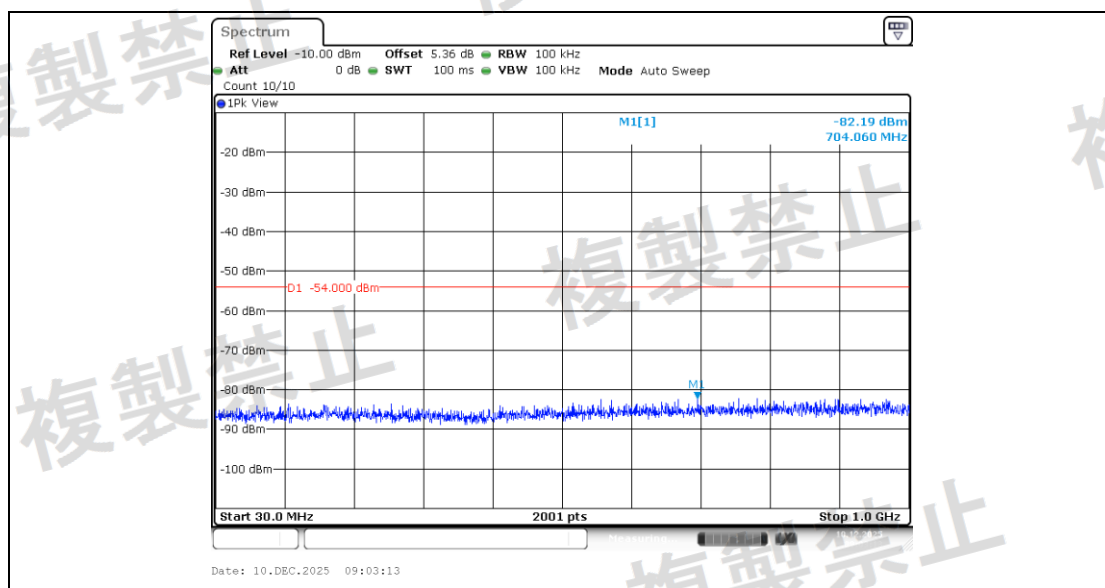
Appendix E Spurious Emission of RX

Test Result

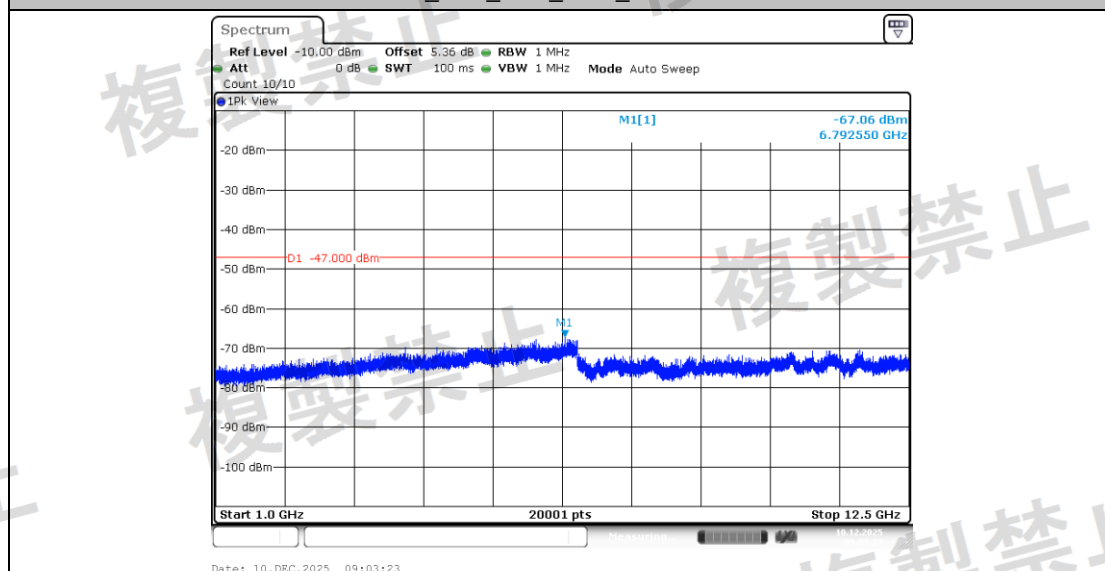
Test Condition	Test Mode	Antenna	Freq(M Hz)	Freq.Range [MHz]	Freq. [MHz]	Result [dBm]	Limit [dBm]	Result [nW]	Limit [nW]	Verdict
NTNV	DH5	Ant1	2402	30~1000	943.53	-81.96	≤-54	0.00637	≤4	PASS
				1000~12500	6137.66	-67.66	≤-47	0.17140	≤20	PASS
			2441	30~1000	704.06	-82.19	≤-54	0.00604	≤4	PASS
				1000~12500	6792.55	-67.06	≤-47	0.19679	≤20	PASS
			2480	30~1000	893.11	-81.42	≤-54	0.00721	≤4	PASS
				1000~12500	6972.51	-67.19	≤-47	0.19099	≤20	PASS
	2DH5	Ant1	2402	30~1000	615.34	-82.31	≤-54	0.00587	≤4	PASS
				1000~12500	6922.49	-67.31	≤-47	0.18578	≤20	PASS
			2441	30~1000	869.84	-82.10	≤-54	0.00617	≤4	PASS
				1000~12500	6798.30	-67.18	≤-47	0.19143	≤20	PASS
			2480	30~1000	721.51	-82.54	≤-54	0.00557	≤4	PASS
				1000~12500	6790.25	-67.62	≤-47	0.17298	≤20	PASS
	3DH5	Ant1	2402	30~1000	916.86	-82.13	≤-54	0.00612	≤4	PASS
				1000~12500	6816.12	-67.37	≤-47	0.18323	≤20	PASS
			2441	30~1000	858.21	-82.31	≤-54	0.00587	≤4	PASS
				1000~12500	6982.86	-66.80	≤-47	0.20893	≤20	PASS
			2480	30~1000	877.11	-82.21	≤-54	0.00601	≤4	PASS
				1000~12500	6981.14	-68.21	≤-47	0.15101	≤20	PASS

Test Graphs

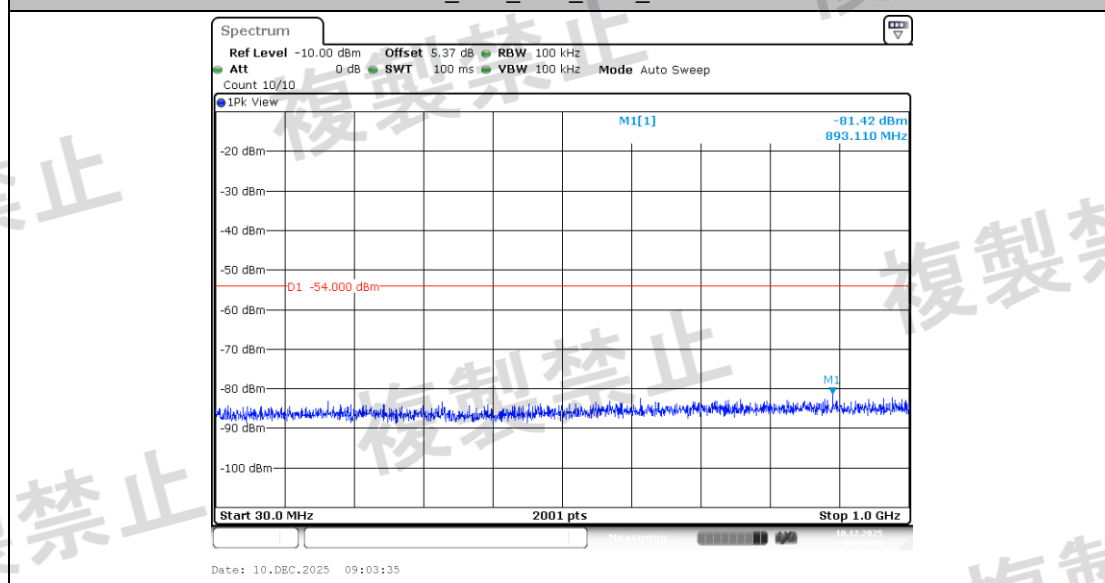


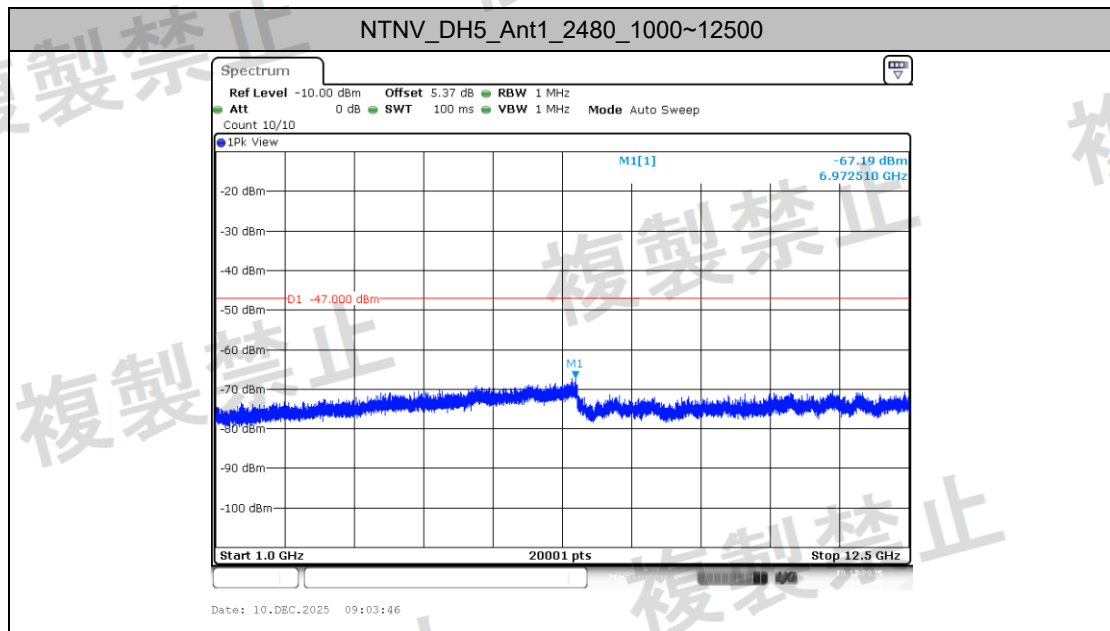
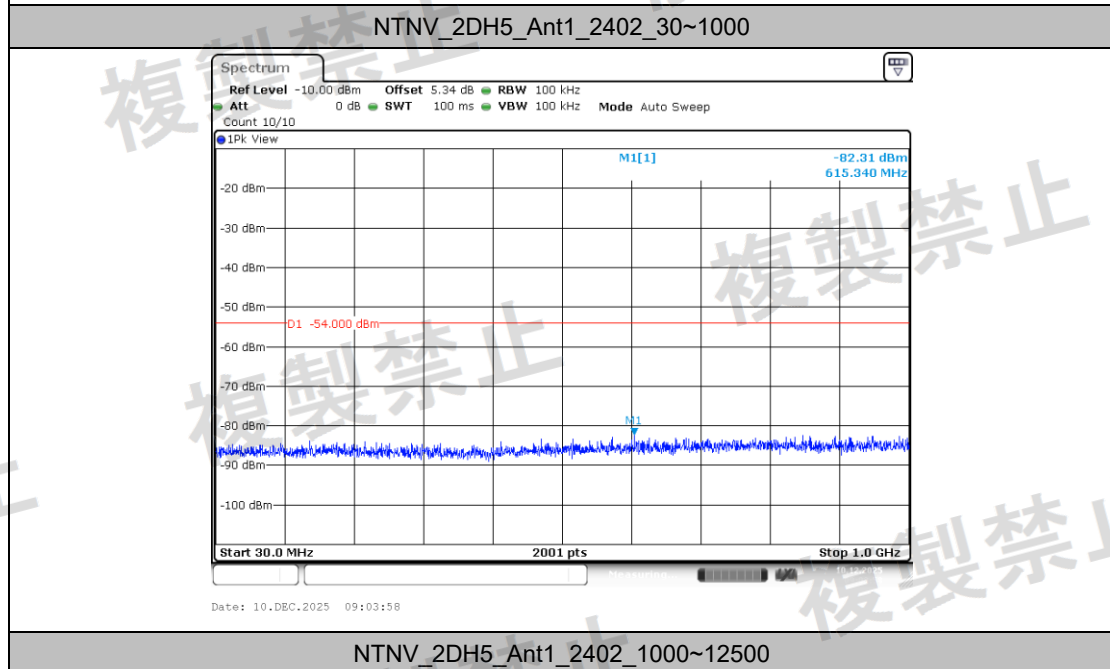


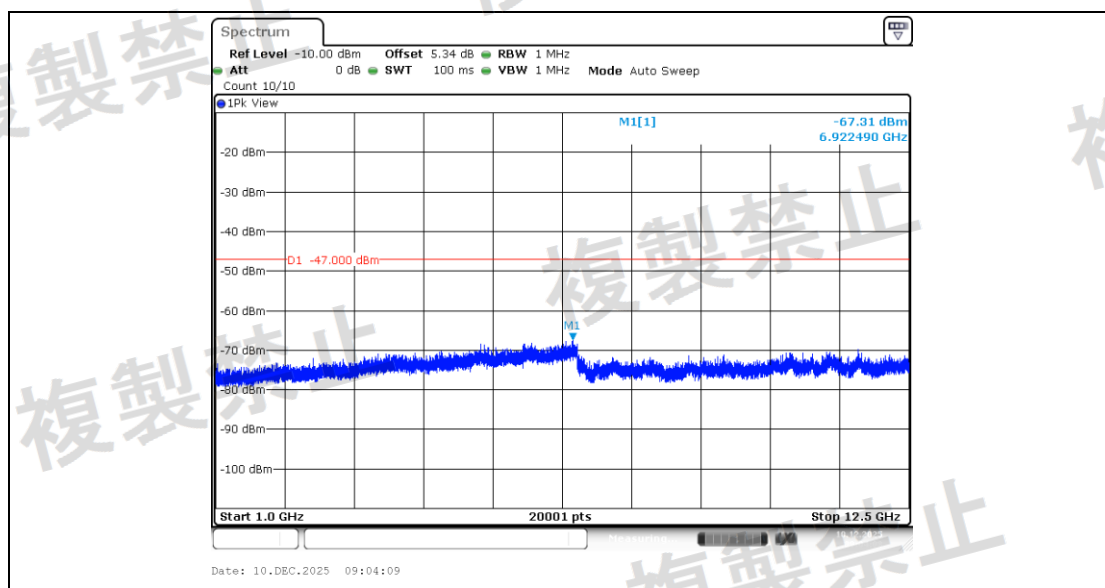
NTNV_DH5_Ant1_2441_1000~12500



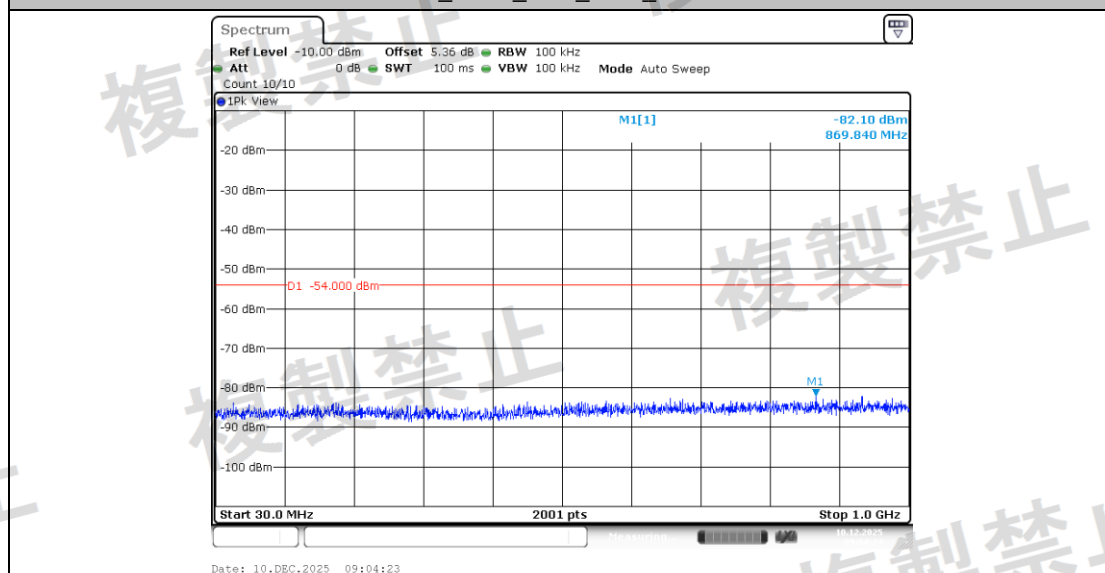
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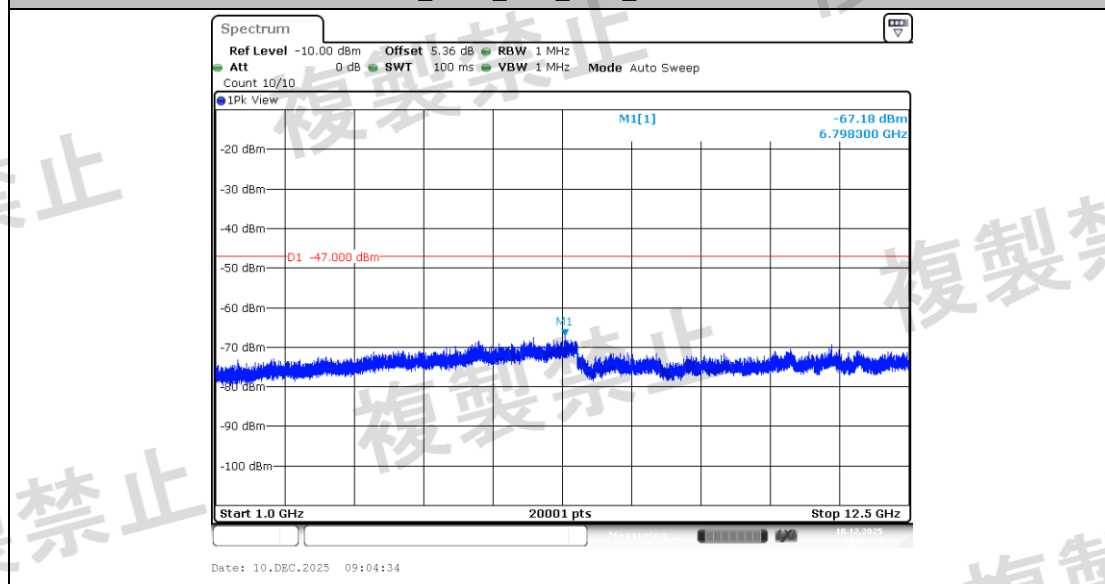


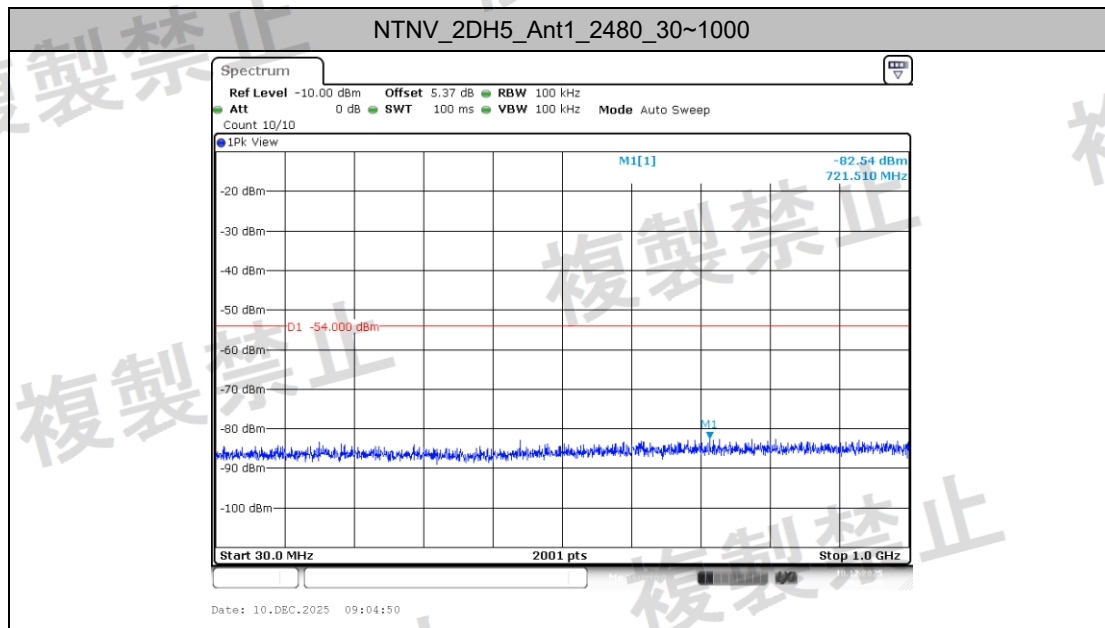
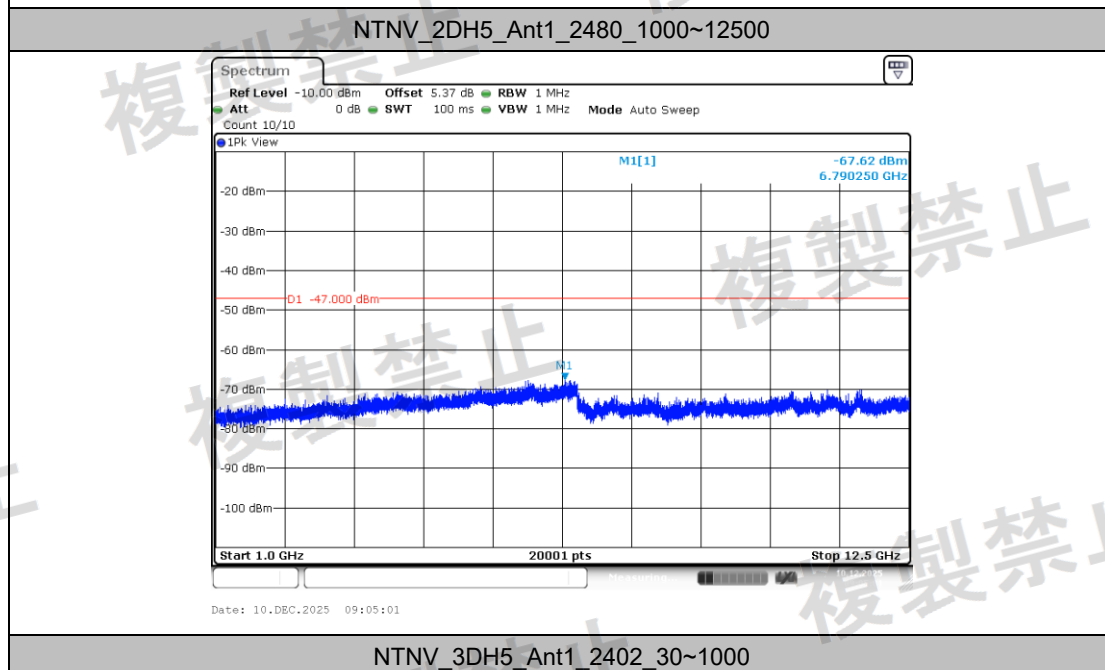


NTNV_2DH5_Ant1_2441_30~1000

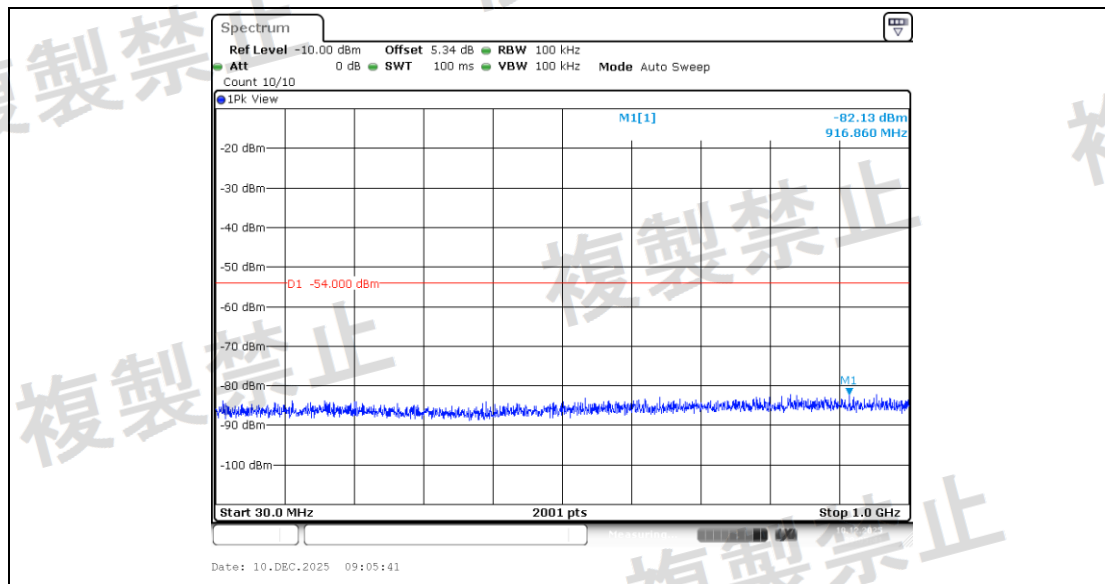


NTNV_2DH5_Ant1_2441_1000~12500

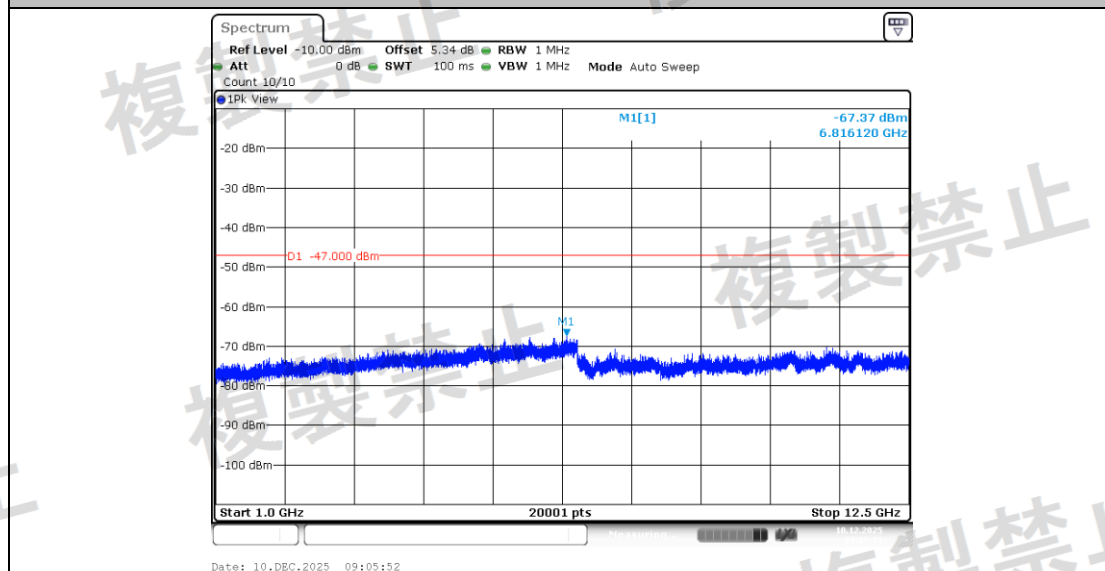




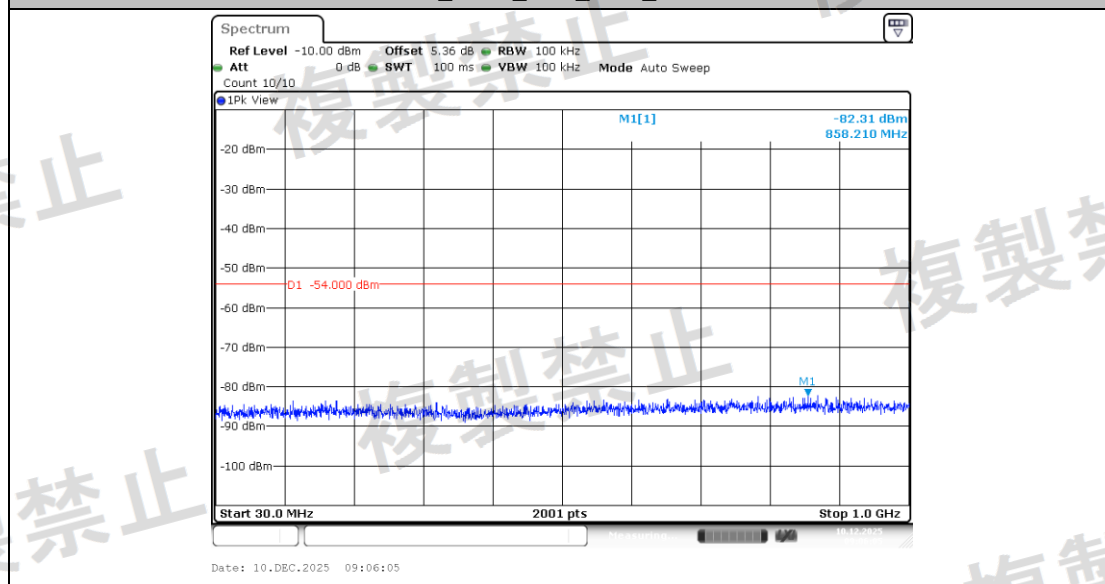
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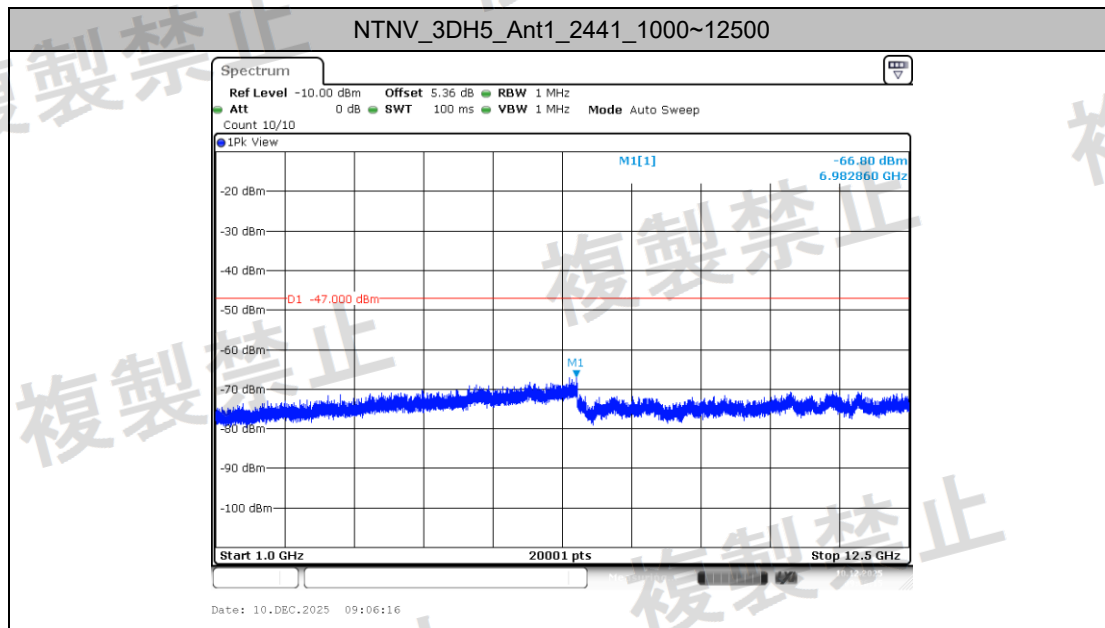
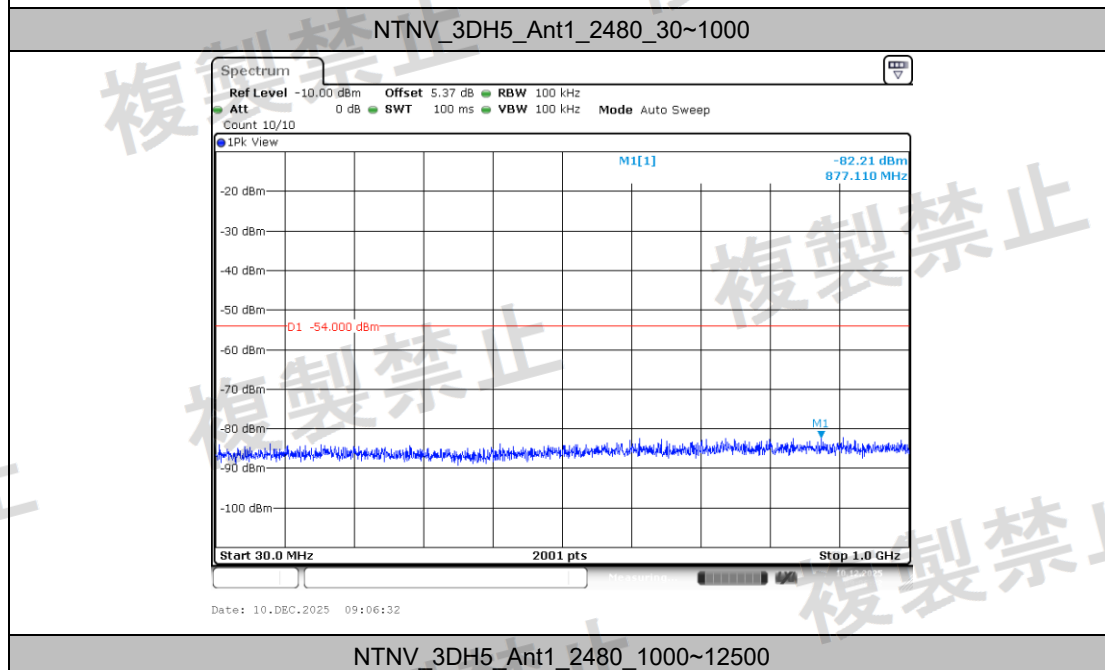


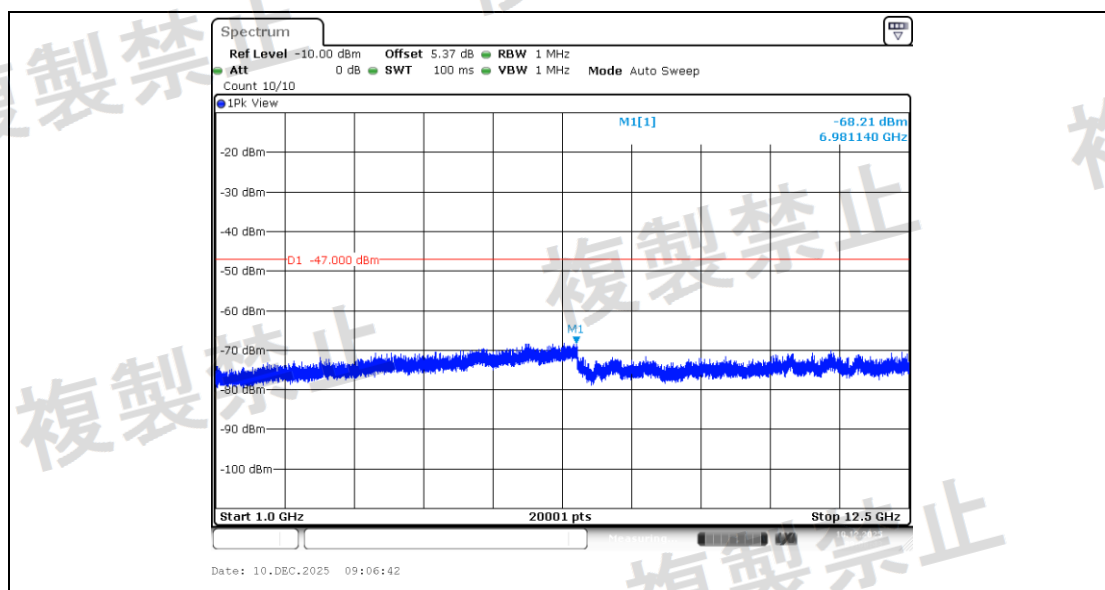
NTNV_3DH5_Ant1_2402_1000~12500



NTNV_3DH5_Ant1_2441_30~1000





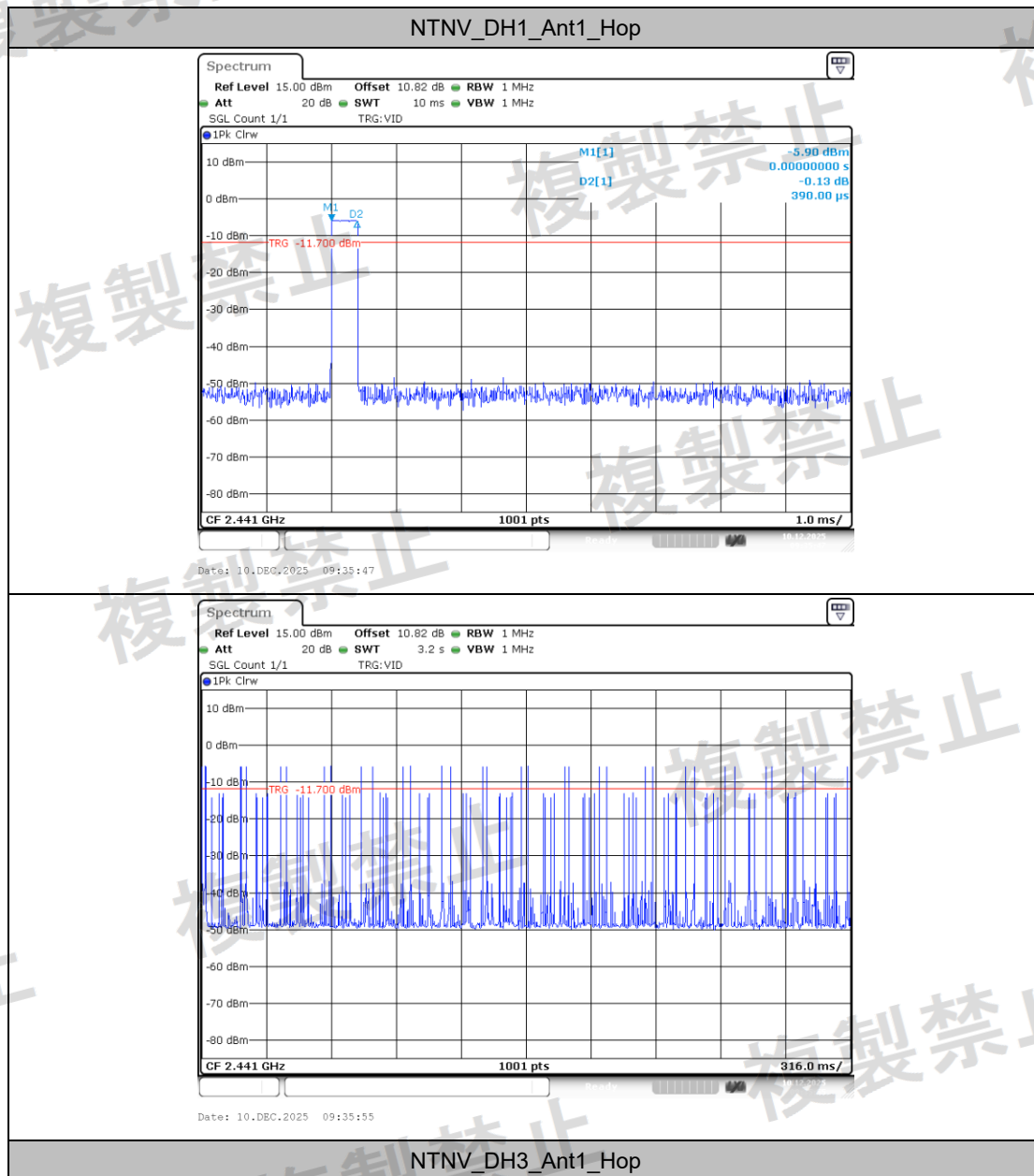


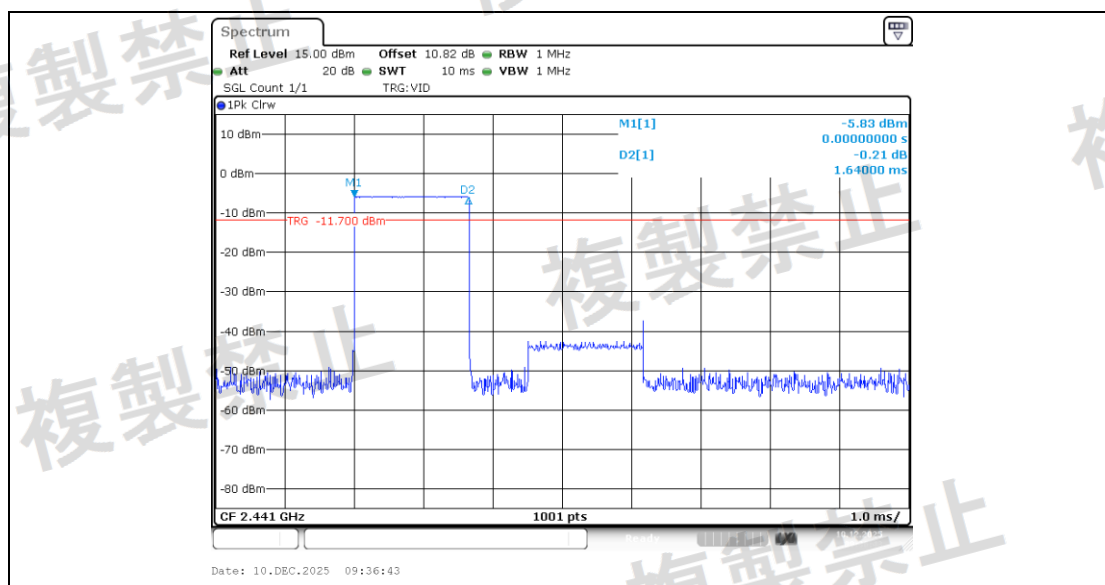
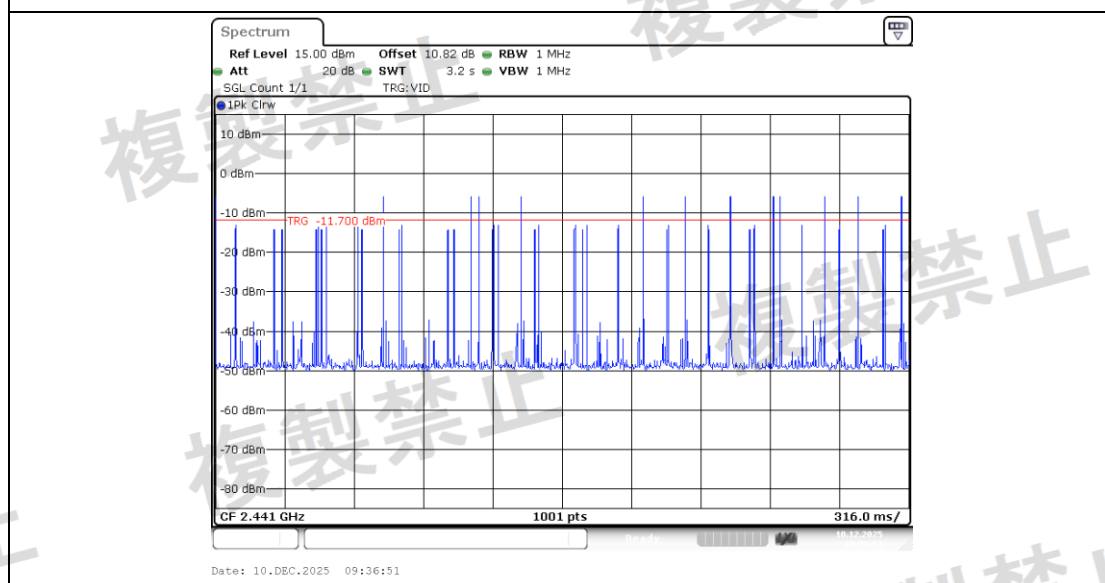
Appendix F: Dwell Time

Test Result

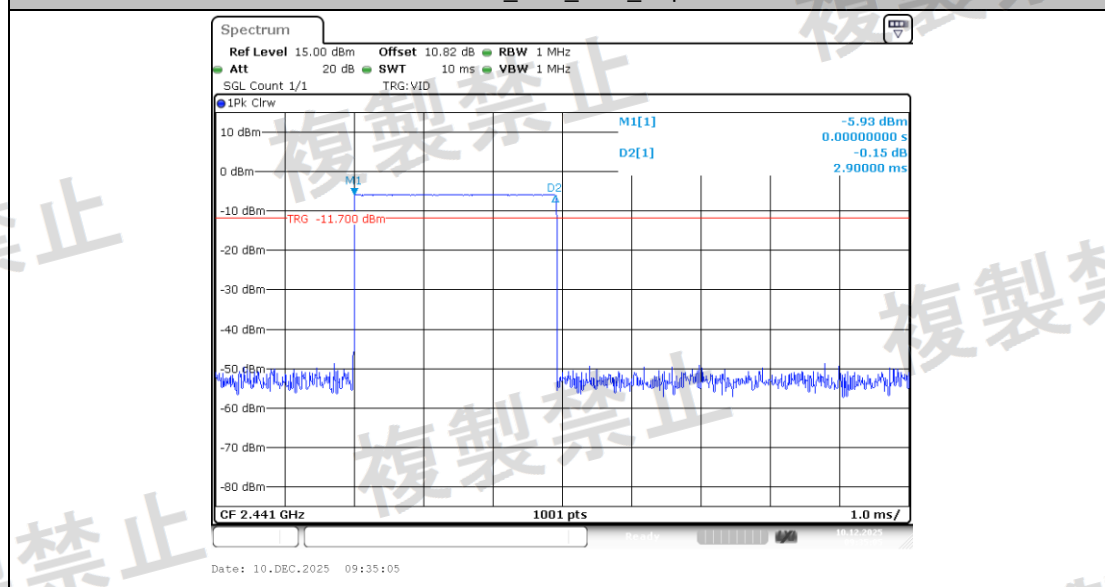
Test Condition	Test Mode	Antenna	Freq(M Hz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit [s]	Verdict
NTNV	DH1	Ant1	Hop	0.39	320	0.125	≤0.4	PASS
	DH3	Ant1	Hop	1.64	130	0.213	≤0.4	PASS
	DH5	Ant1	Hop	2.90	120	0.348	≤0.4	PASS
	2DH1	Ant1	Hop	0.38	290	0.11	≤0.4	PASS
	2DH3	Ant1	Hop	1.63	140	0.228	≤0.4	PASS
	2DH5	Ant1	Hop	2.89	100	0.289	≤0.4	PASS
	3DH1	Ant1	Hop	0.38	310	0.118	≤0.4	PASS
	3DH3	Ant1	Hop	1.63	150	0.245	≤0.4	PASS
	3DH5	Ant1	Hop	2.88	90	0.259	≤0.4	PASS

Test Graphs



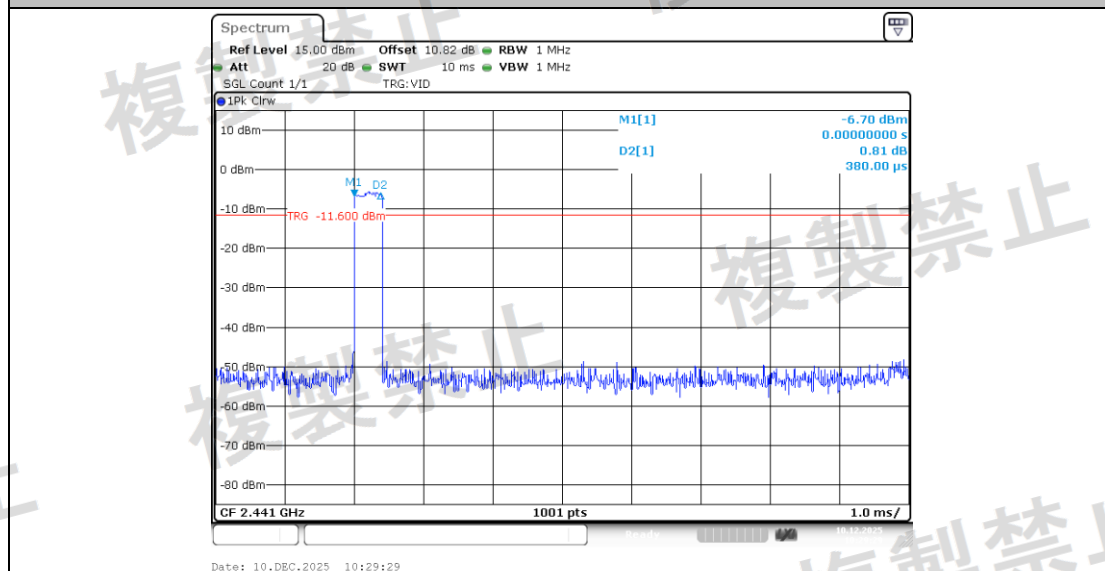
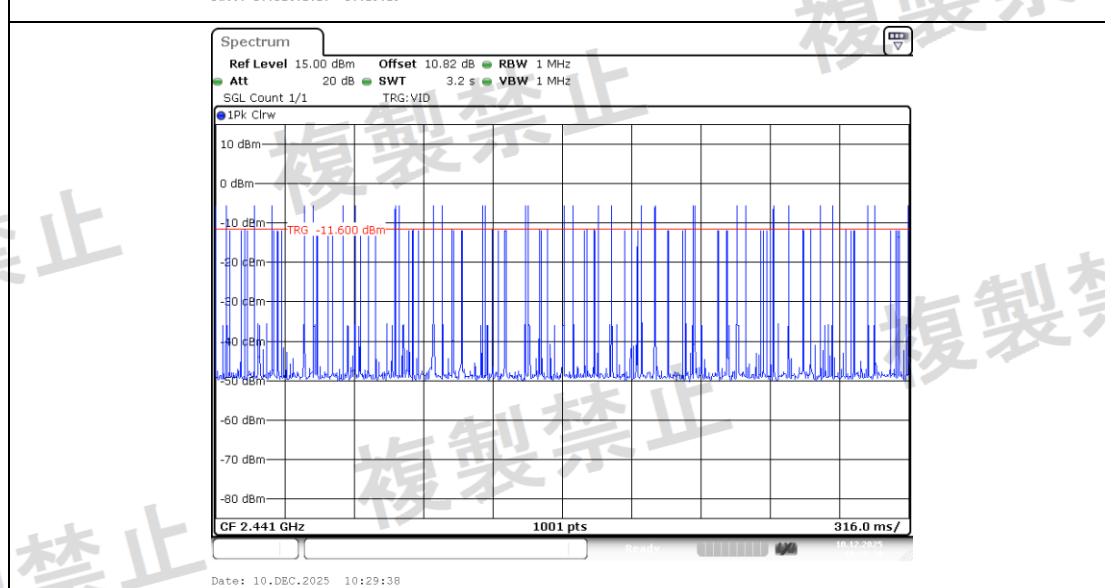


NTNV_DH5_Ant1_Hop

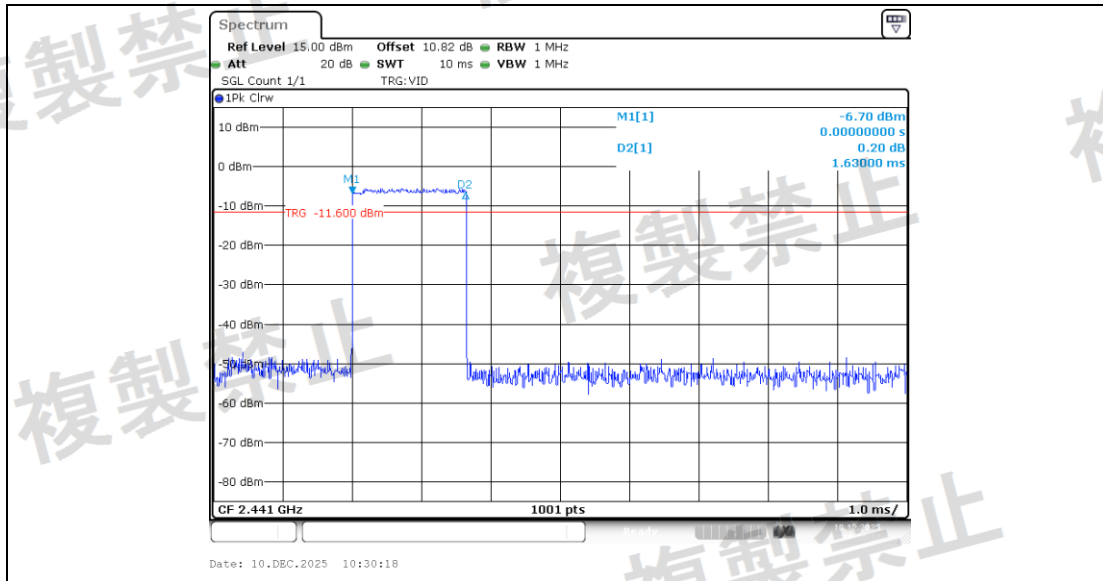
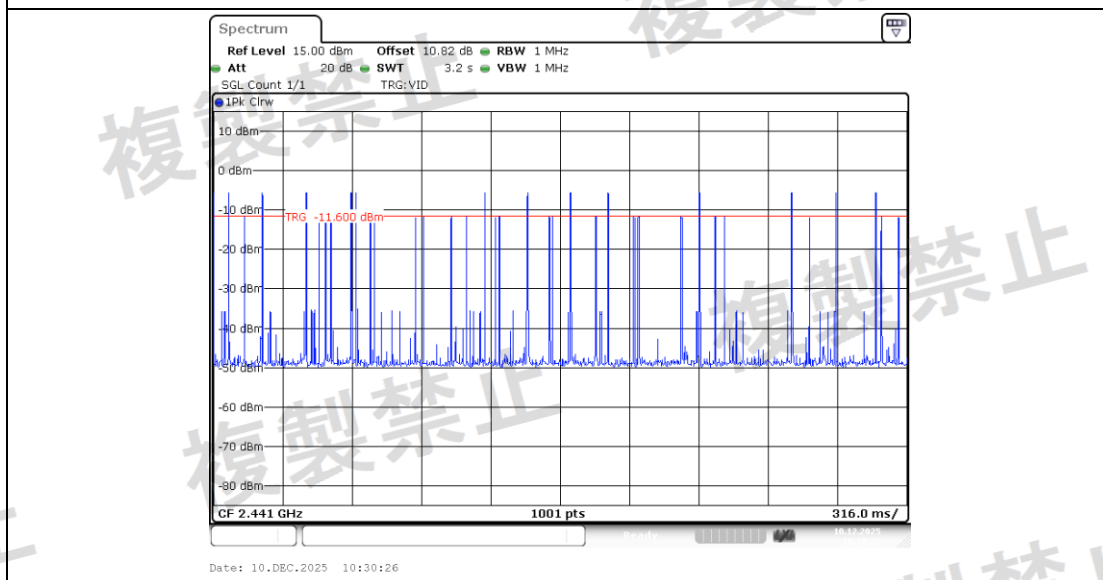




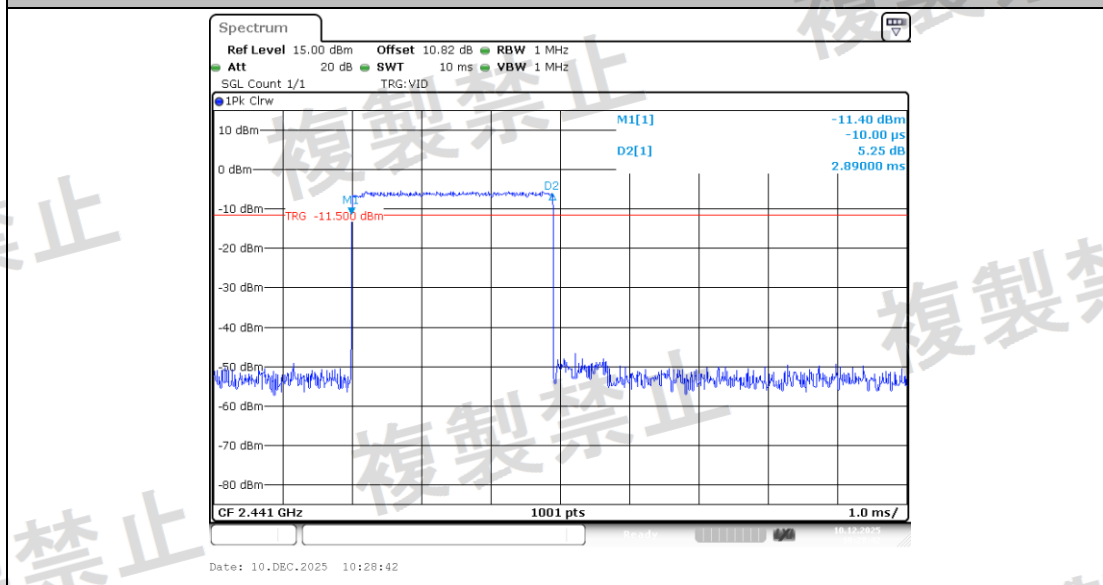
NTNV_2DH1_Ant1_Hop

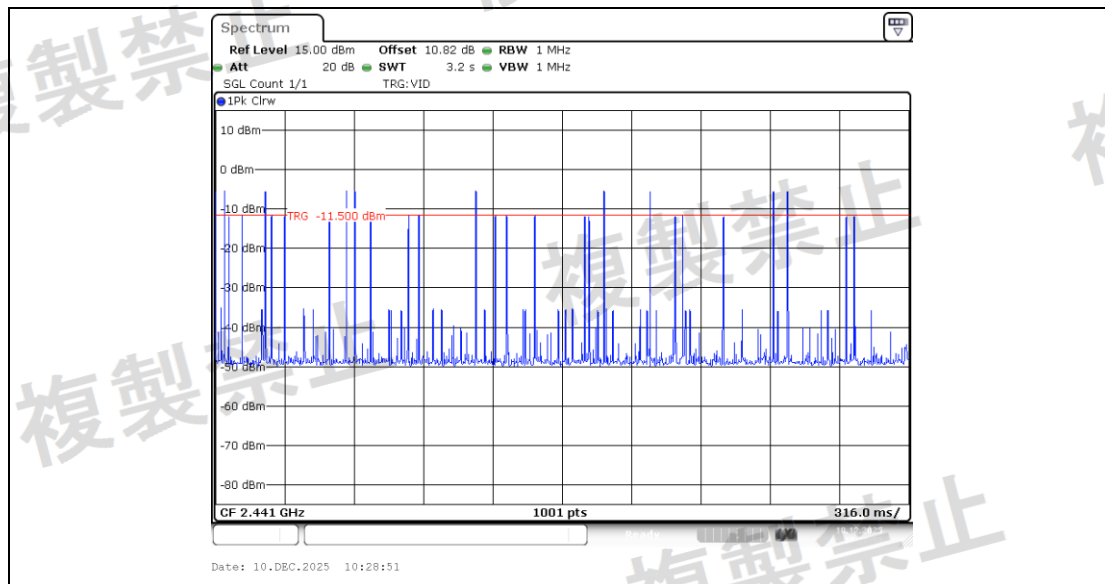


NTNV_2DH3_Ant1_Hop

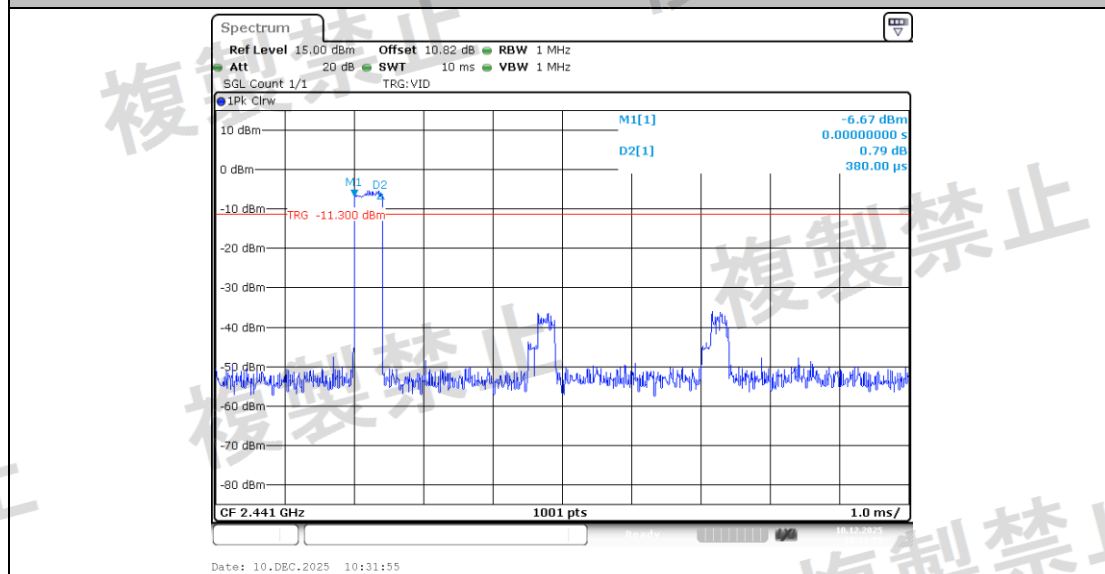
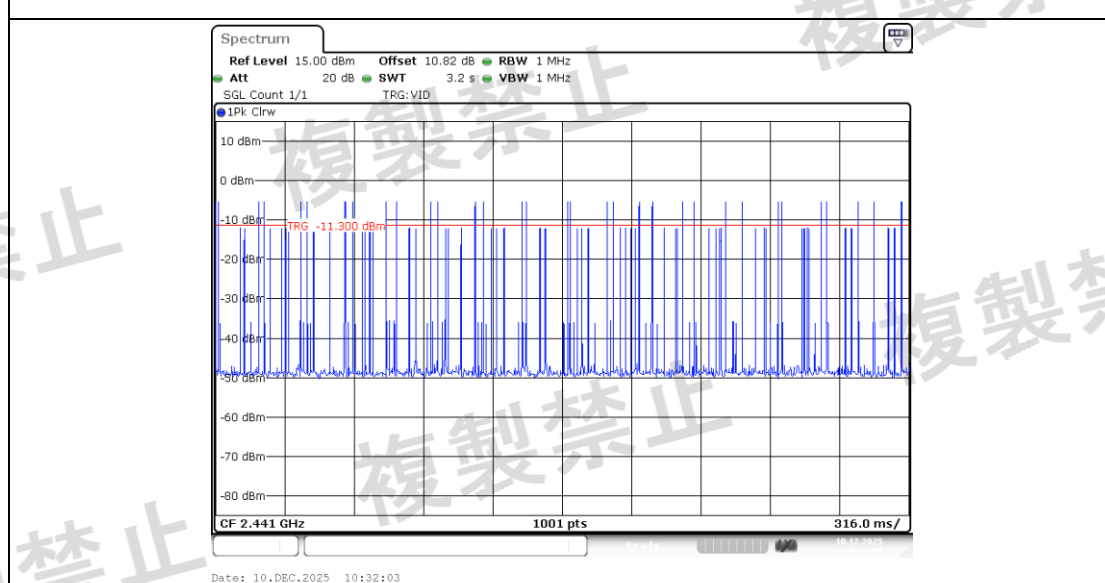


NTNV_2DH5_Ant1_Hop

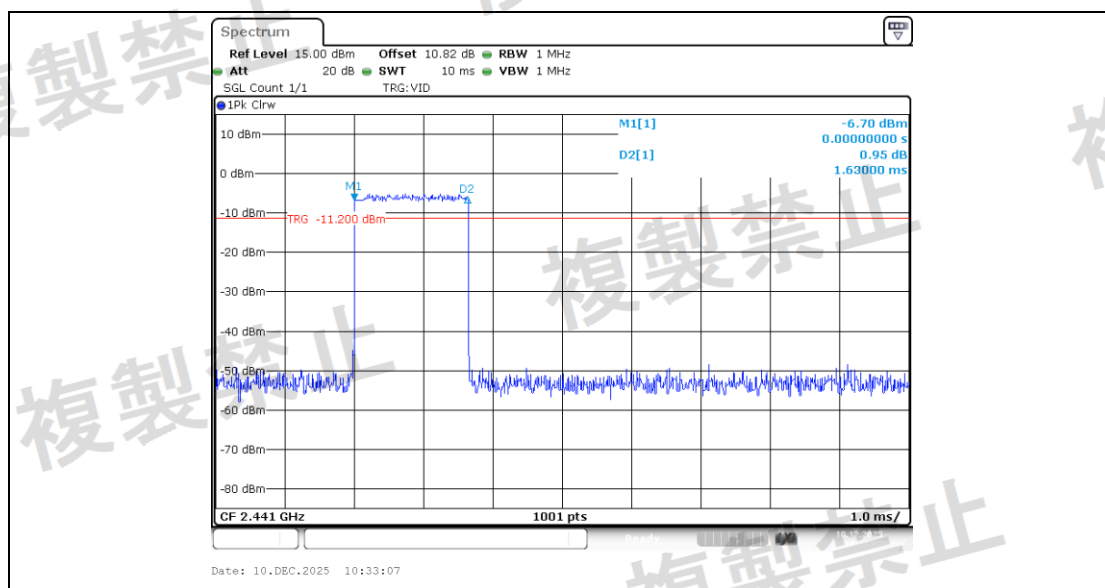
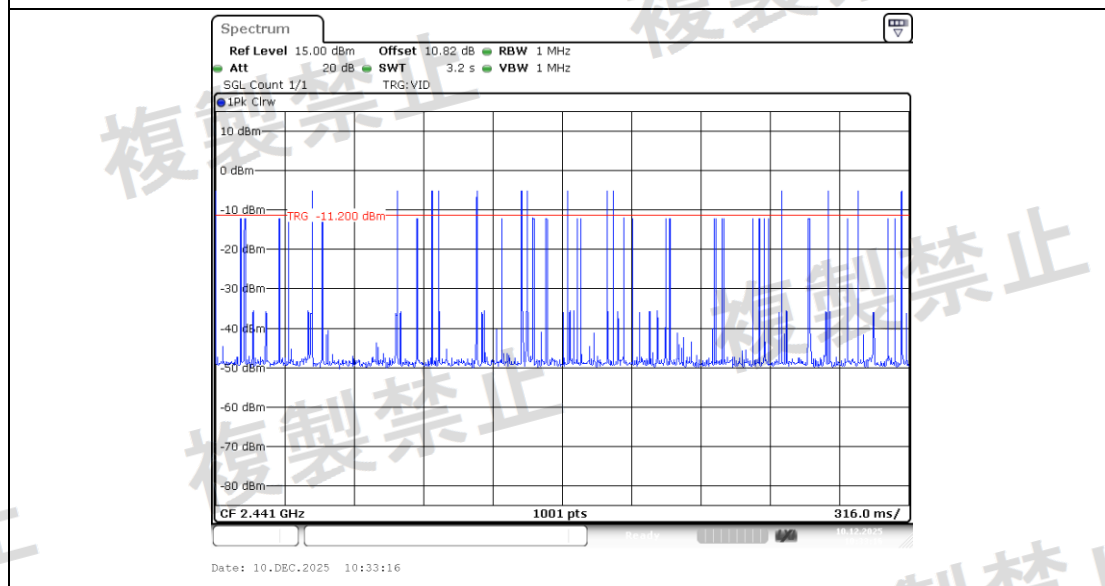




NTNV_3DH1_Ant1_Hop



NTNV_3DH3_Ant1_Hop



NTNV_3DH5_Ant1_Hop

