

Appendix RF Test Data for BLE

Company : SnowAmber Tech Co.,Ltd

EUT : AI Recorder

Model Number : R1

Report No. : CTA26051301501

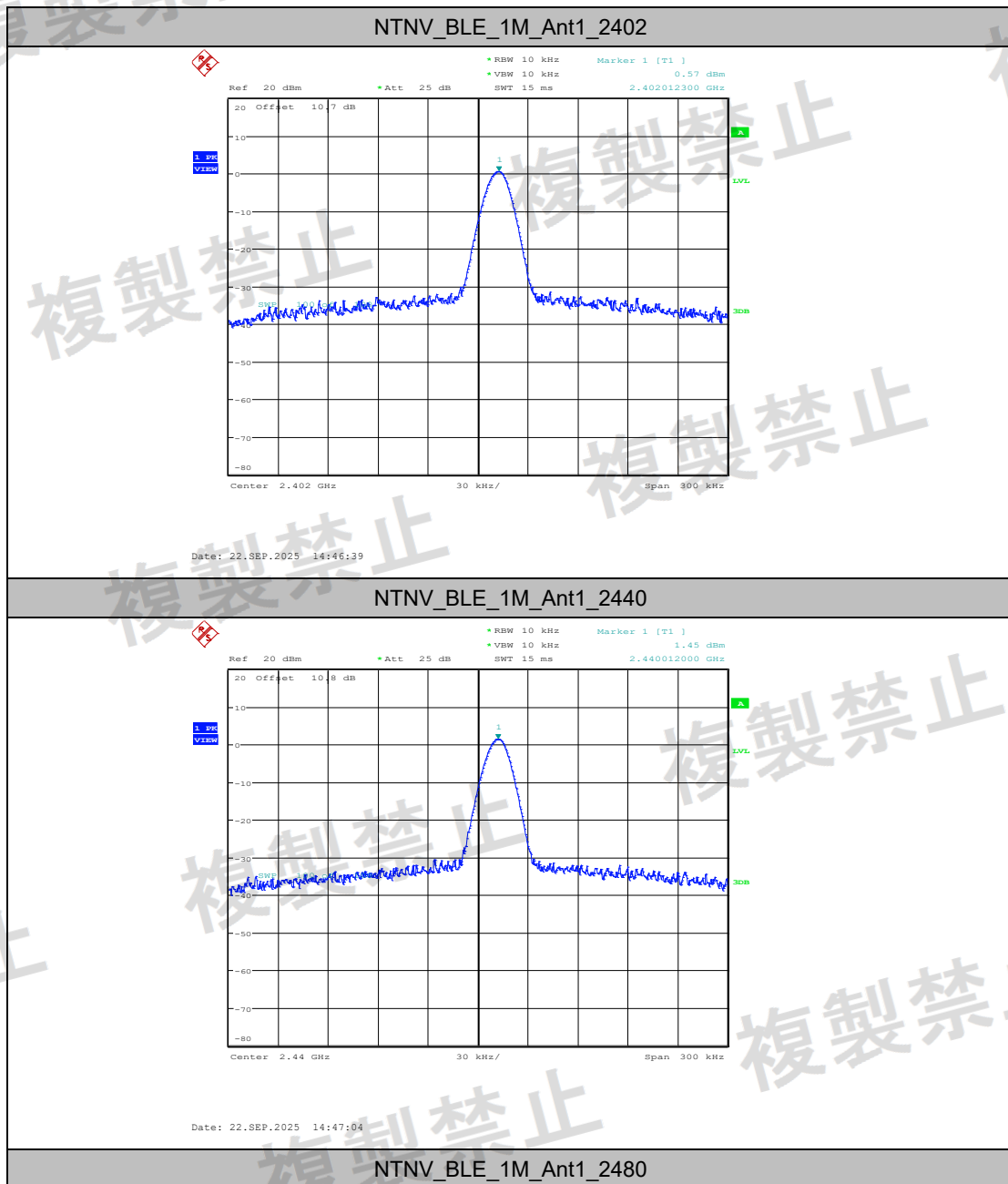
Reviewed By : Eric Wang

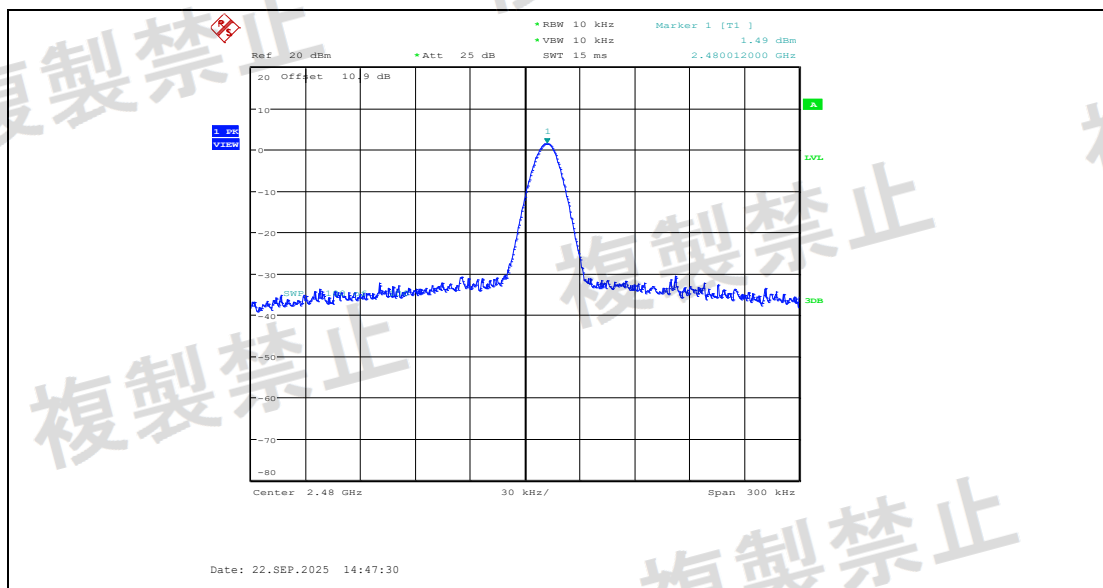
Appendix A: Frequency Error

Test Result

TestCondition	TestMode	Antenna	Freq(MHz)	Result[ppm]	Limit[ppm]	Verdict
NTNV	BLE_1M	Ant1	2402	5.12073	±50	PASS
			2440	4.91803	±50	PASS
			2480	4.83871	±50	PASS

Test Graphs



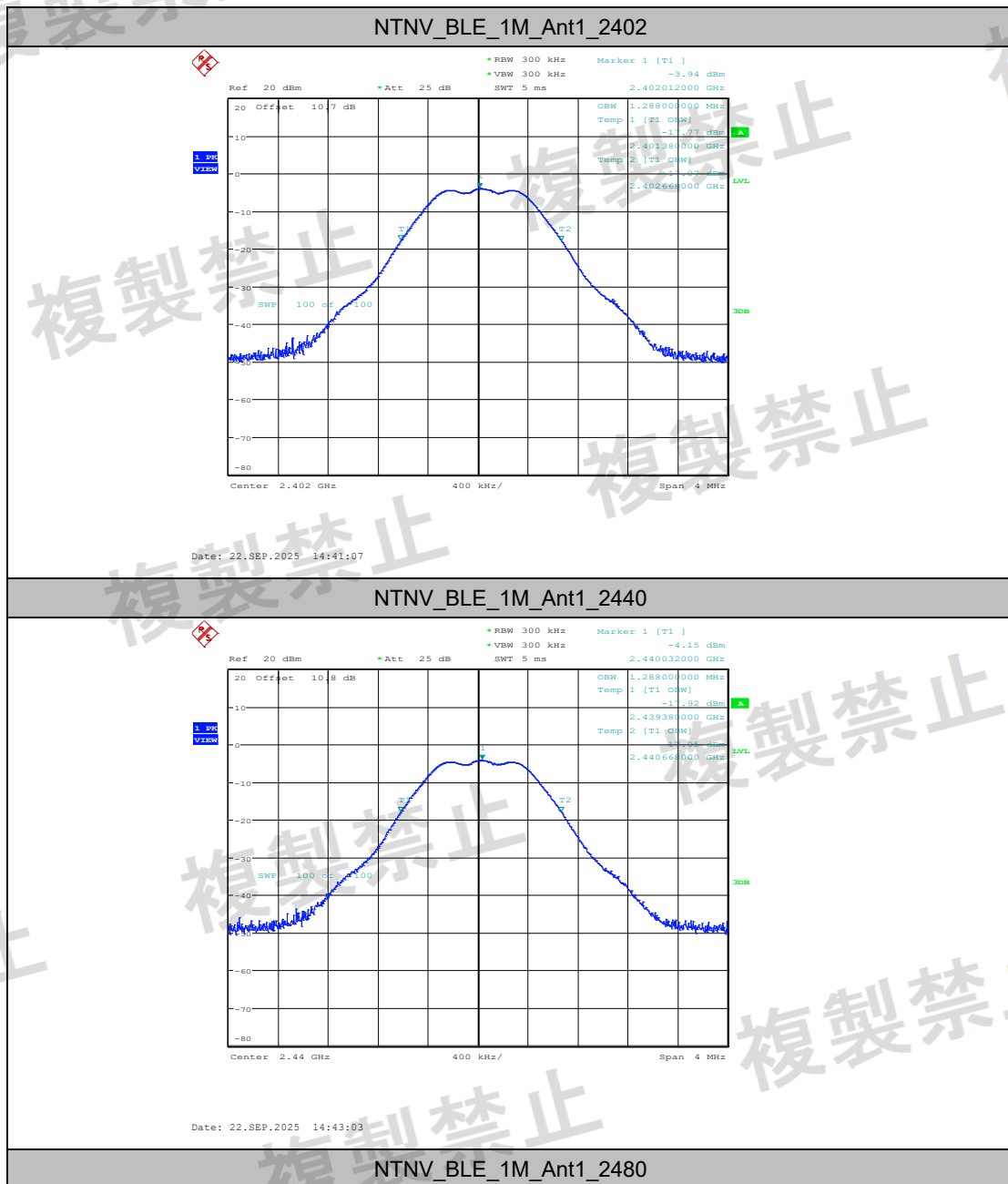


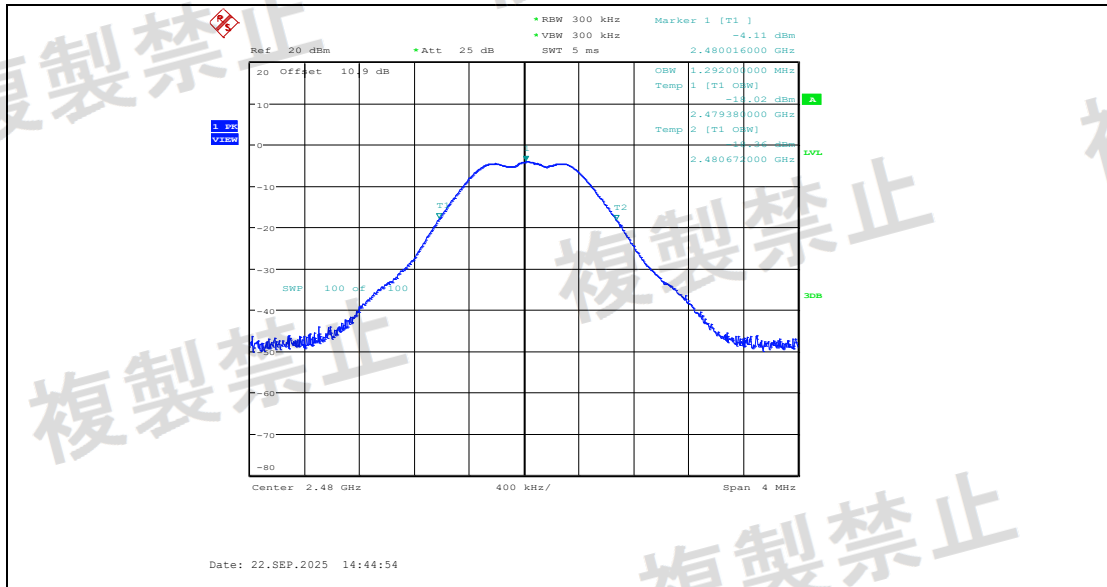
Appendix B: Occupied Bandwidth

Test Result

TestCondition	TestMode	Antenna	Freq(MHz)	Result [MHz]	Limit [MHz]	Verdict
NTNV	BLE_1M	Ant1	2402	1.288	≤26	PASS
			2440	1.288	≤26	PASS
			2480	1.292	≤26	PASS

Test Graphs



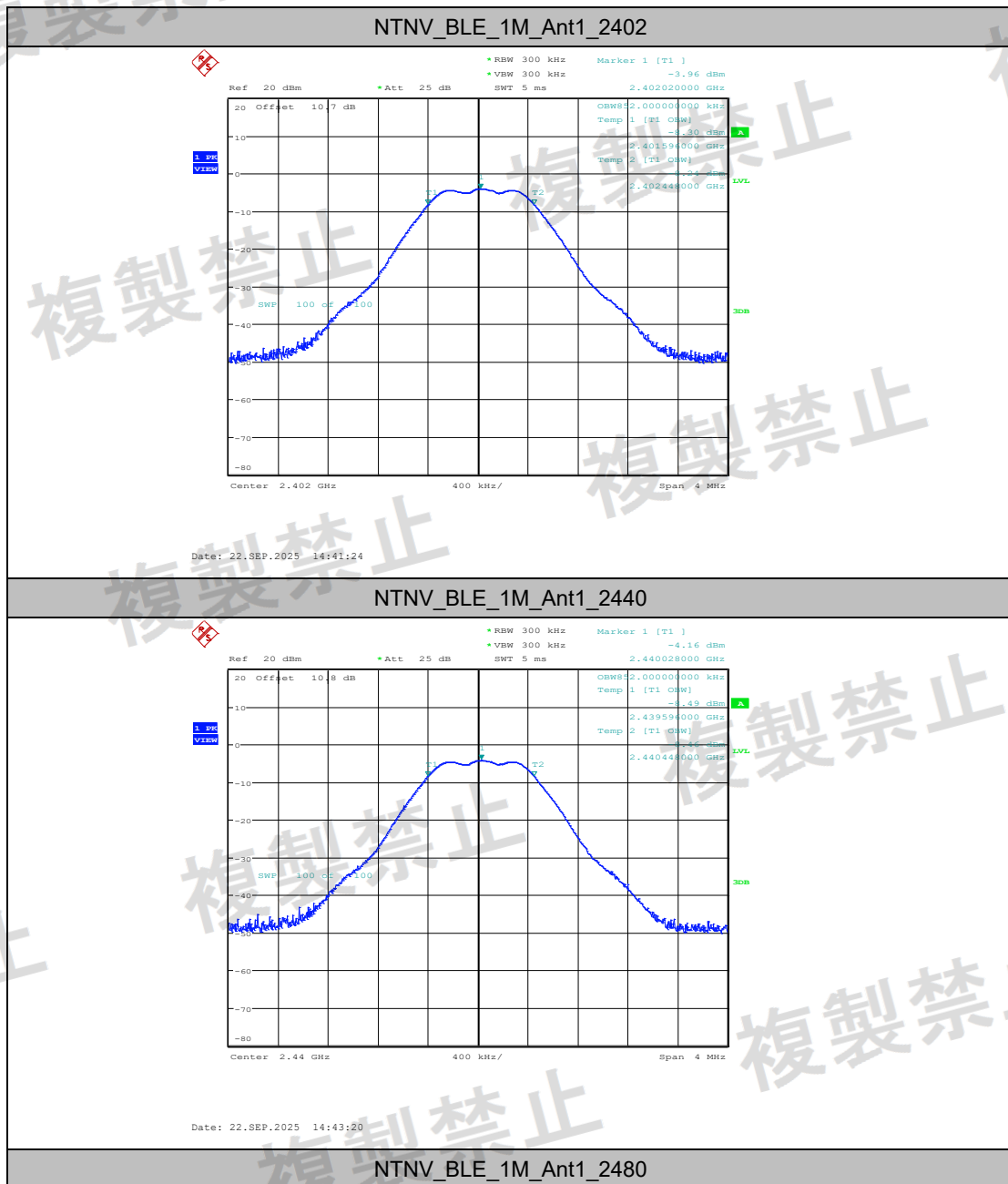


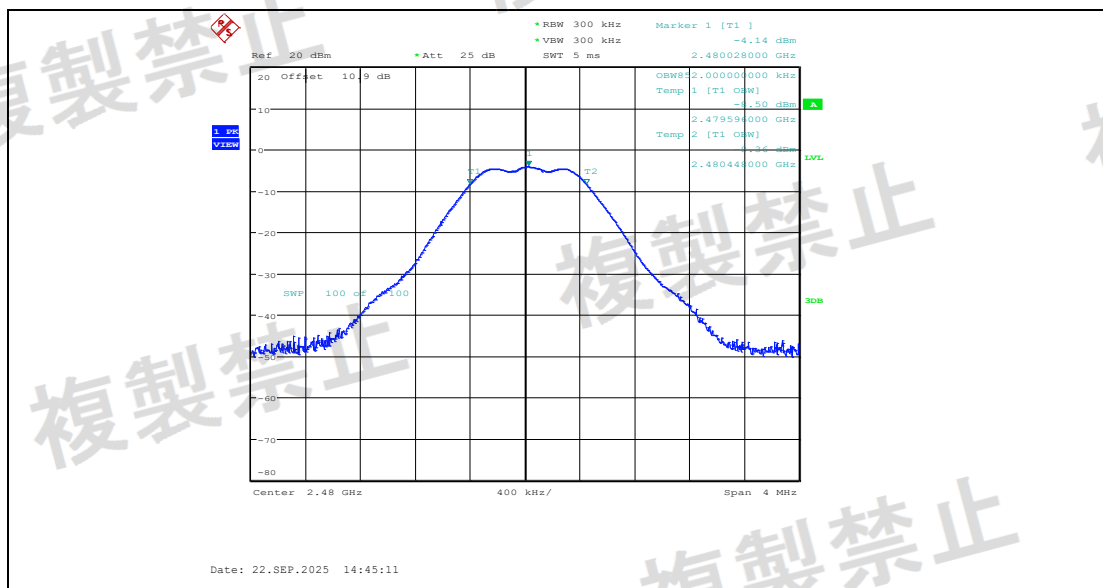
Appendix C: Spread Bandwidth

Test Result

TestCondition	TestMode	Antenna	Freq(MHz)	Result [MHz]	Limit [MHz]	Verdict
NTNV	BLE_1M	Ant1	2402	0.852	≥0.5	PASS
			2440	0.852	≥0.5	PASS
			2480	0.852	≥0.5	PASS

Test Graphs





Appendix D: Spurious Emission of TX

Test Result

TestCondition	TestMode	Antenna	Freq(MHz)	Freq.Range [MHz]	Freq. [MHz]	Result [dBm]	Limit [dBm]	Result [μW]	Limit [μW]	Verdict
NTNV	BLE_1M	Ant1	2402	30~1000	971.14	-51.05	≤-26	0.00785	≤2.5	PASS
				1000~2387	2371.05	-49.69	≤-26	0.01074	≤2.5	PASS
				2387~2400	2400.00	-25.76	≤-16	2.65461	≤25	PASS
				2483.5~2496.5	2493.64	-39.10	≤-16	0.12303	≤25	PASS
				2496.5~13000	4803.59	-46.40	≤-26	0.02291	≤2.5	PASS
			2440	30~1000	940.59	-51.24	≤-26	0.00752	≤2.5	PASS
				1000~2387	2350.94	-50.39	≤-26	0.00914	≤2.5	PASS
				2387~2400	2397.11	-39.40	≤-16	0.11482	≤25	PASS
				2483.5~2496.5	2491.57	-38.47	≤-16	0.14223	≤25	PASS
				2496.5~13000	4879.74	-46.21	≤-26	0.02393	≤2.5	PASS
			2480	30~1000	210.18	-51.47	≤-26	0.00713	≤2.5	PASS
				1000~2387	2166.12	-50.10	≤-26	0.00977	≤2.5	PASS
				2387~2400	2391.84	-39.31	≤-16	0.11722	≤25	PASS
				2483.5~2496.5	2483.66	-39.11	≤-16	0.12274	≤25	PASS
				2496.5~13000	4959.57	-45.99	≤-26	0.02518	≤2.5	PASS

NTNV_BLE_1M_Ant1_2402_30~1000

Ref 20 dBm Att 20 dB RBW 1 MHz Marker 1 [T1] -51.05 dBm
VBW 3 MHz SWT 100 ms 971.142500000 MHz

20 Offset 5.0 dB

1.98 VdBm

01 -26 dBm

SWP 10 of 10

3dB

Start 30 MHz 97 MHz/ Step 1 GHz

Date: 22.SEP.2025 14:41:37

NTNV_BLE_1M_Ant1_2402_1000~2387

Ref 20 dBm Att 20 dB RBW 1 MHz Marker 1 [T1] -49.69 dBm
VBW 3 MHz SWT 100 ms 2.371049500 GHz

20 Offset 5.0 dB

1.98 VdBm

01 -26 dBm

SWP 10 of 10

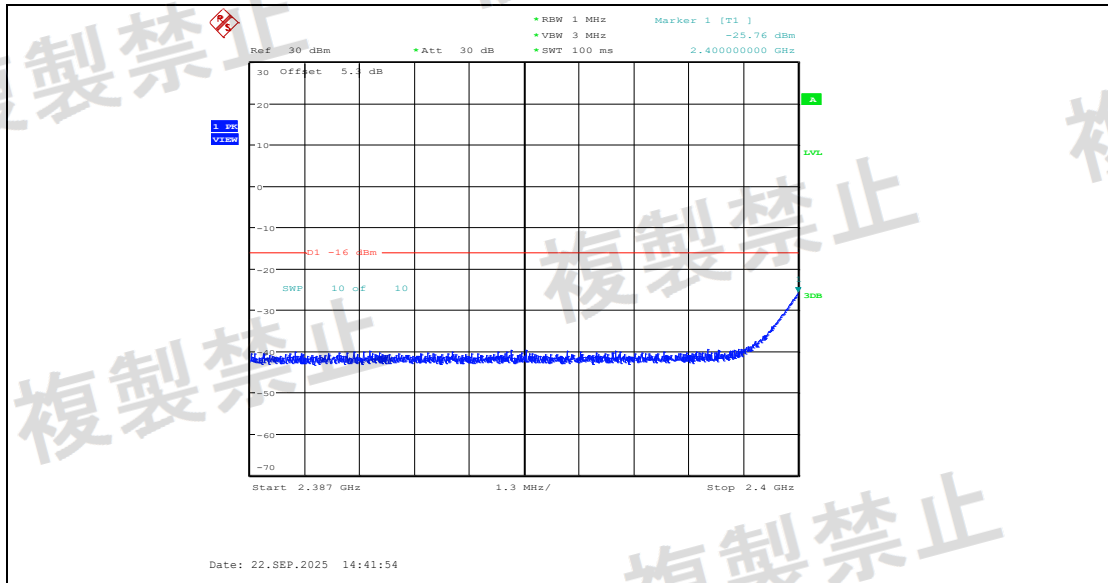
3dB

Start 1 GHz 138.7 MHz/ Stop 2.387 GHz

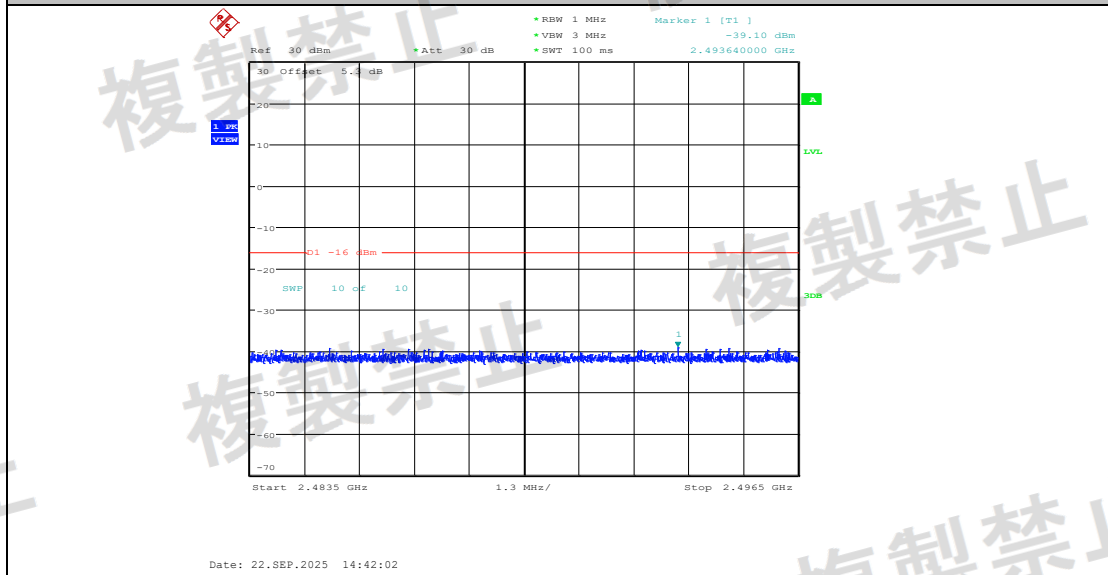
Date: 22.SEP.2025 14:41:46

NTNV_BLE_1M_Ant1_2402_2387~2400

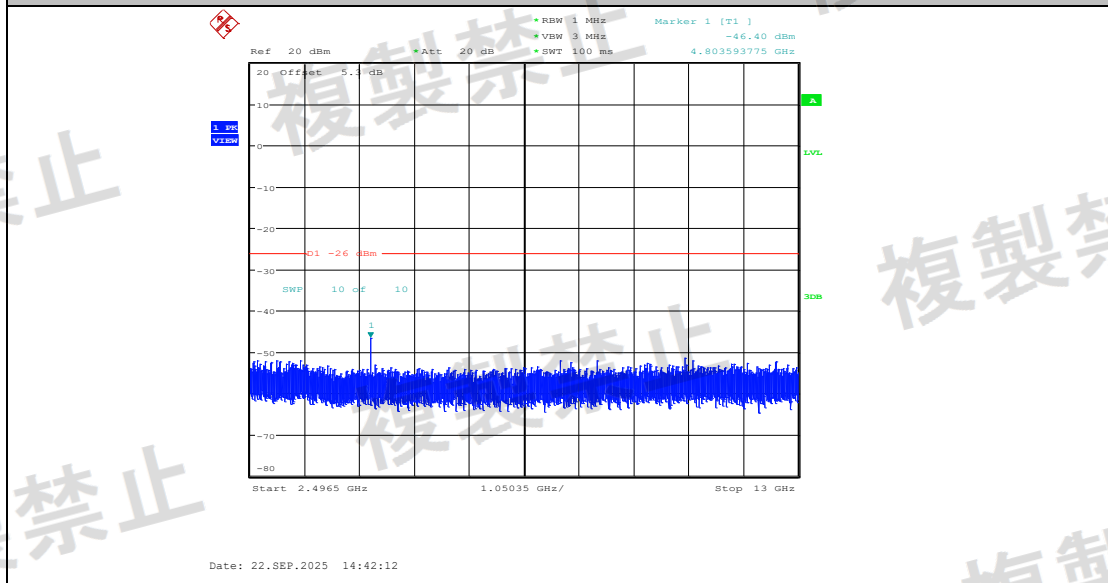
The figure consists of two spectral analysis plots. The top plot, titled 'NTNV_BLE_1M_Ant1_2402_30~1000', shows a frequency range from 30 MHz to 97 MHz. The y-axis represents power in dBm, ranging from -80 to 20. A red horizontal line at -26 dBm indicates the signal level, and a blue horizontal line at -51.05 dBm indicates the noise floor. The bottom plot, titled 'NTNV_BLE_1M_Ant1_2402_1000~2387', shows a frequency range from 1 GHz to 2.387 GHz. The y-axis represents power in dBm, ranging from -80 to 20. A red horizontal line at -26 dBm indicates the signal level, and a blue horizontal line at -49.69 dBm indicates the noise floor. Both plots include a 3dB marker and a 1.98 VdBm marker.

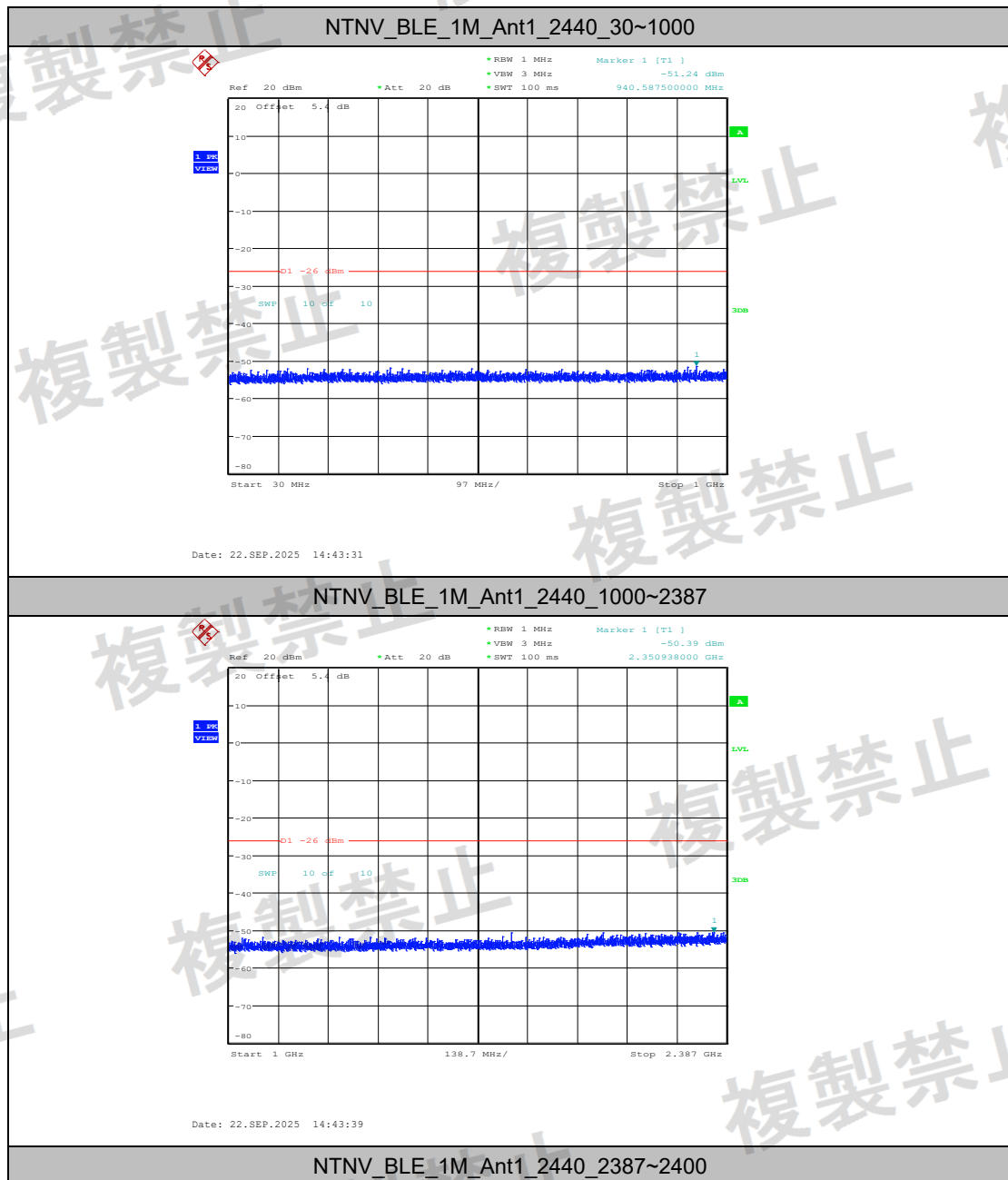


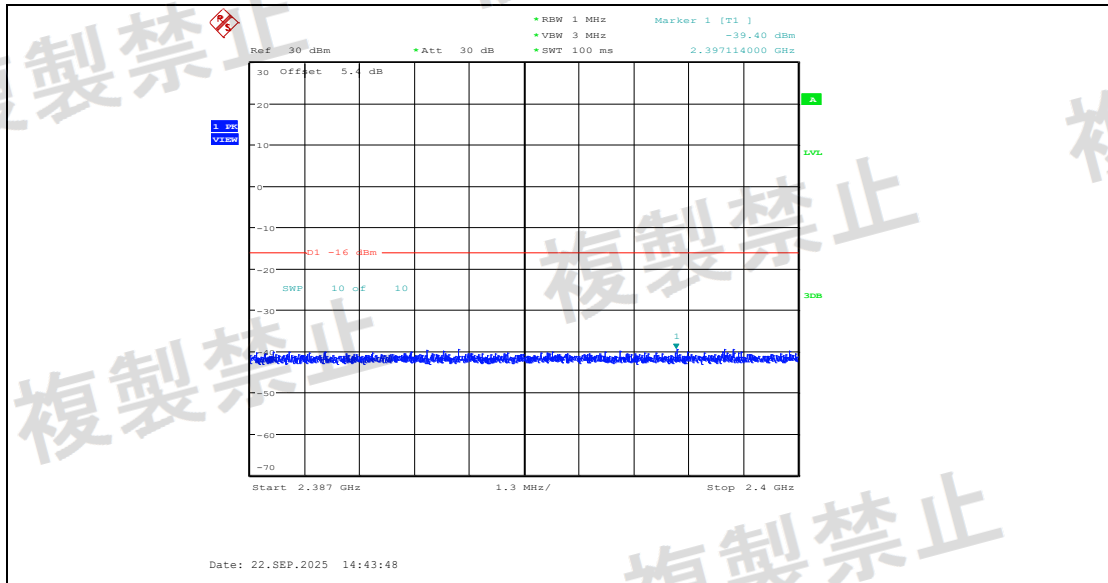
NTNV_BLE_1M_Ant1_2402_2483.5~2496.5



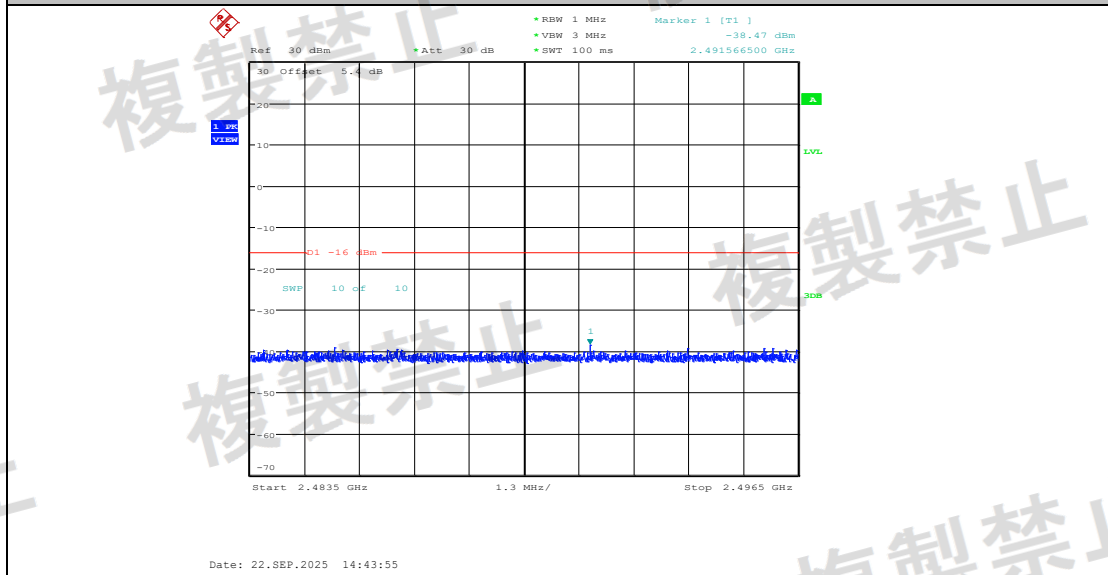
NTNV_BLE_1M_Ant1_2402_2496.5~13000



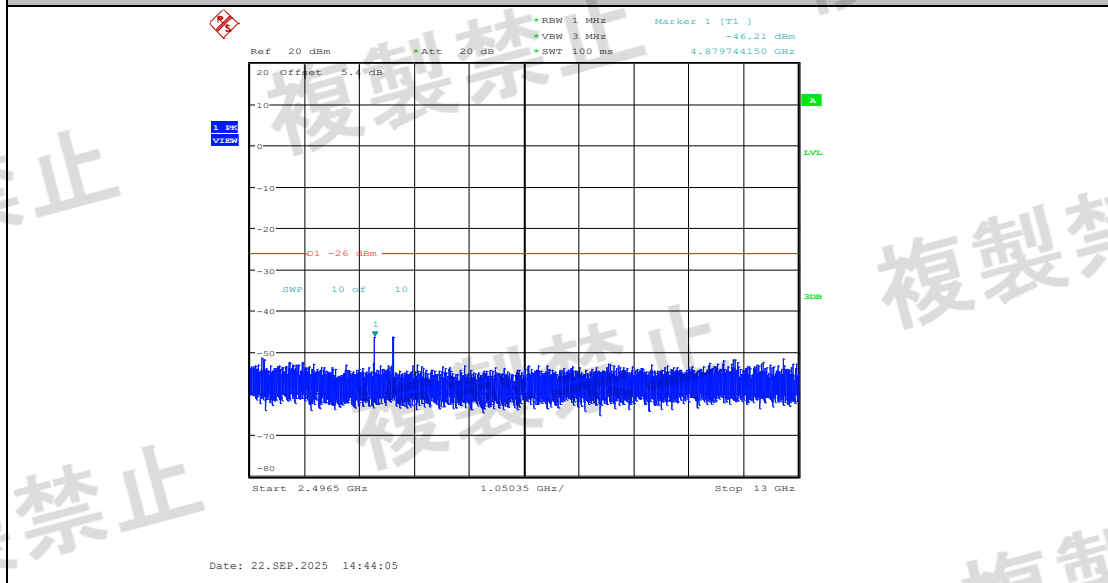


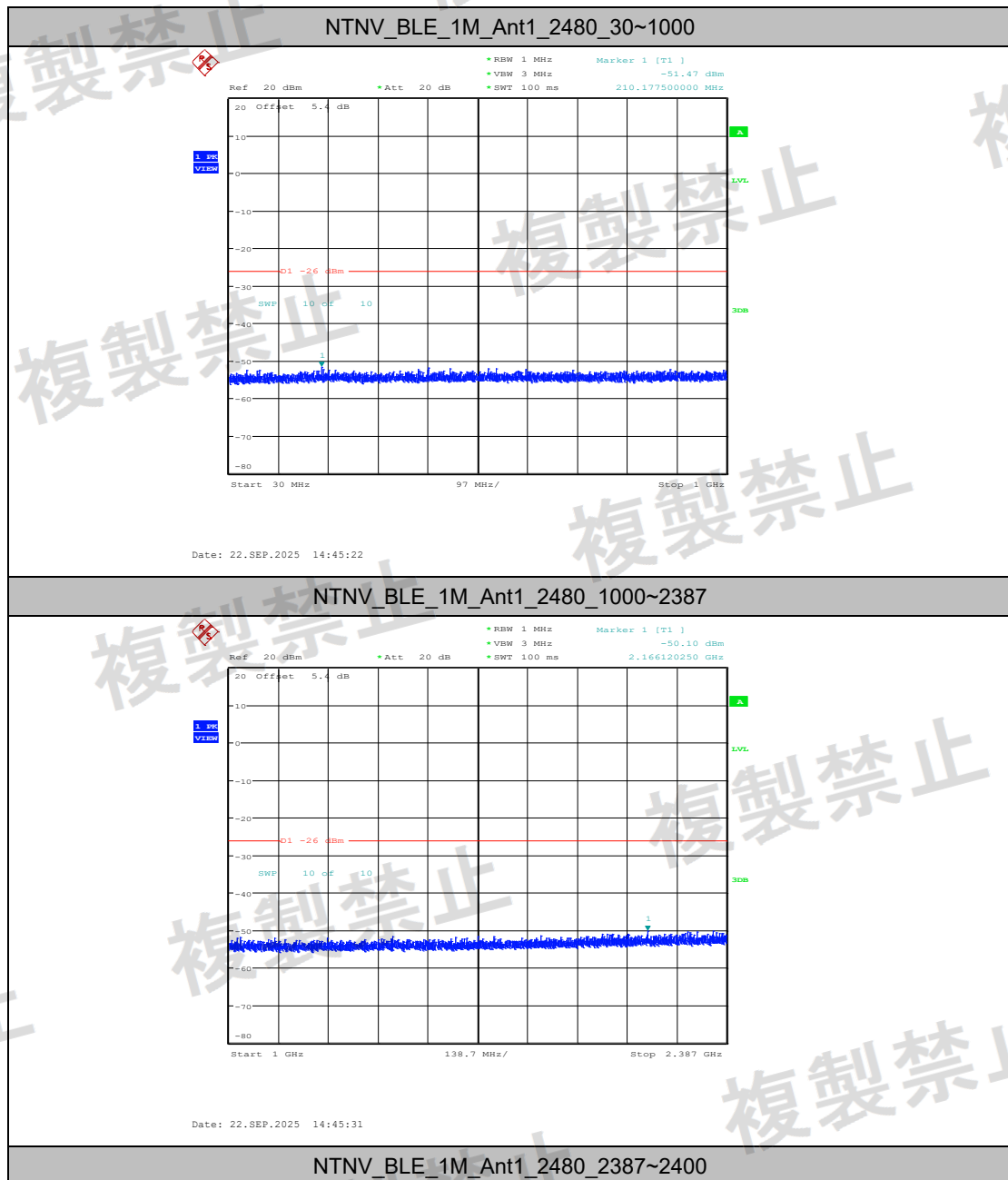


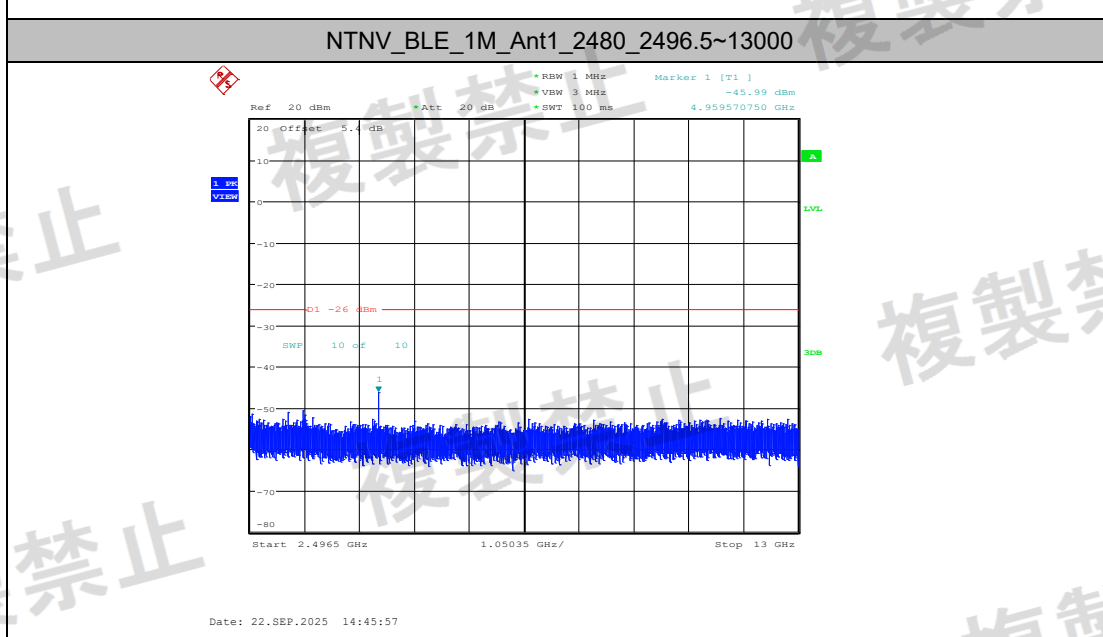
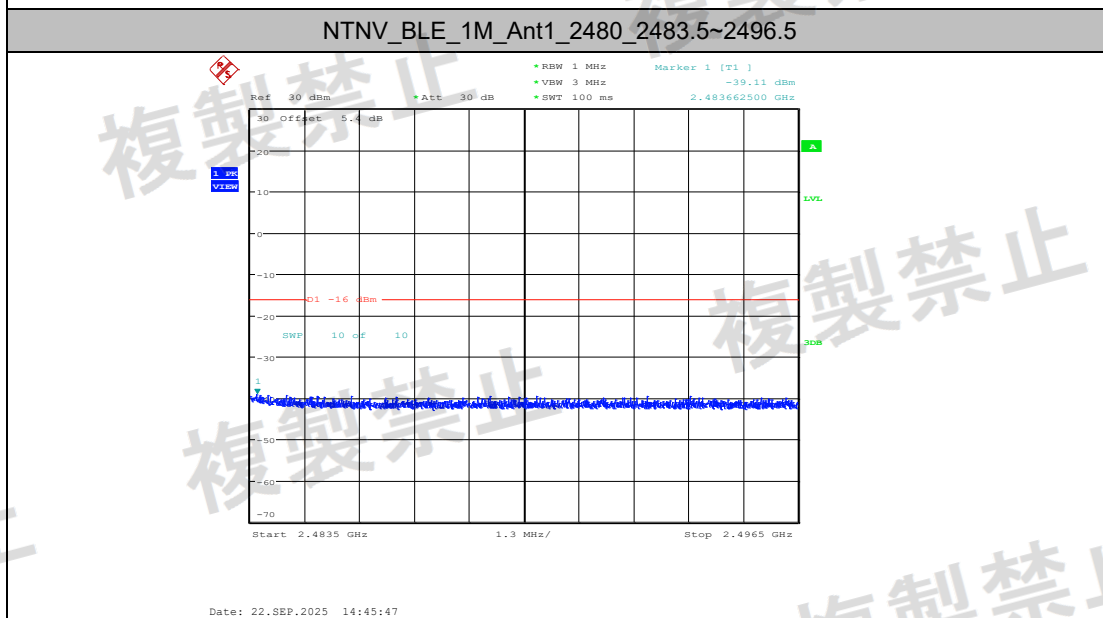
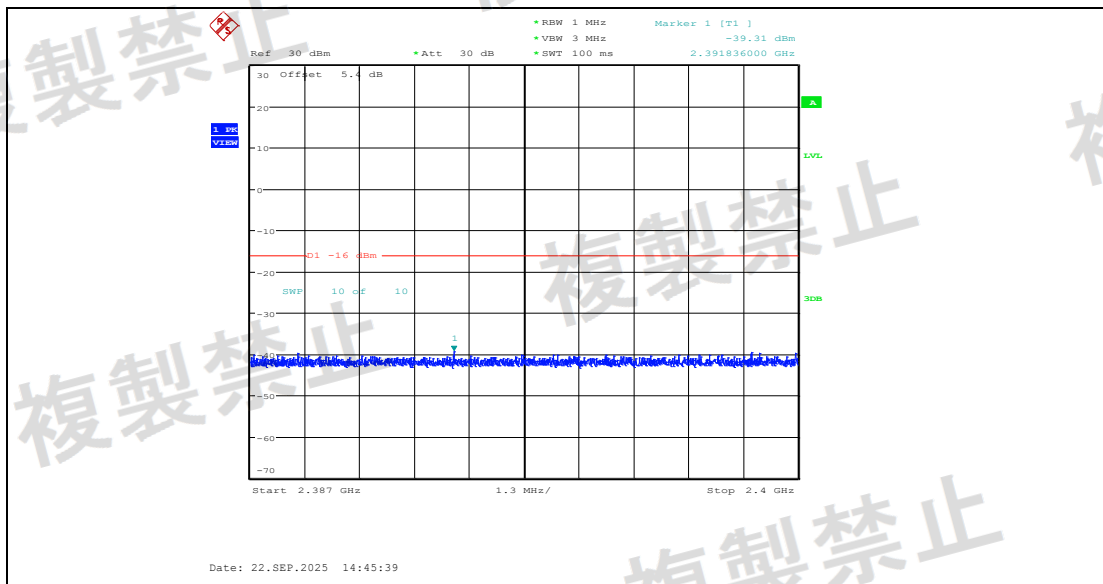
NTNV_BLE_1M_Ant1_2440_2483.5~2496.5



NTNV_BLE_1M_Ant1_2440_2496.5~13000





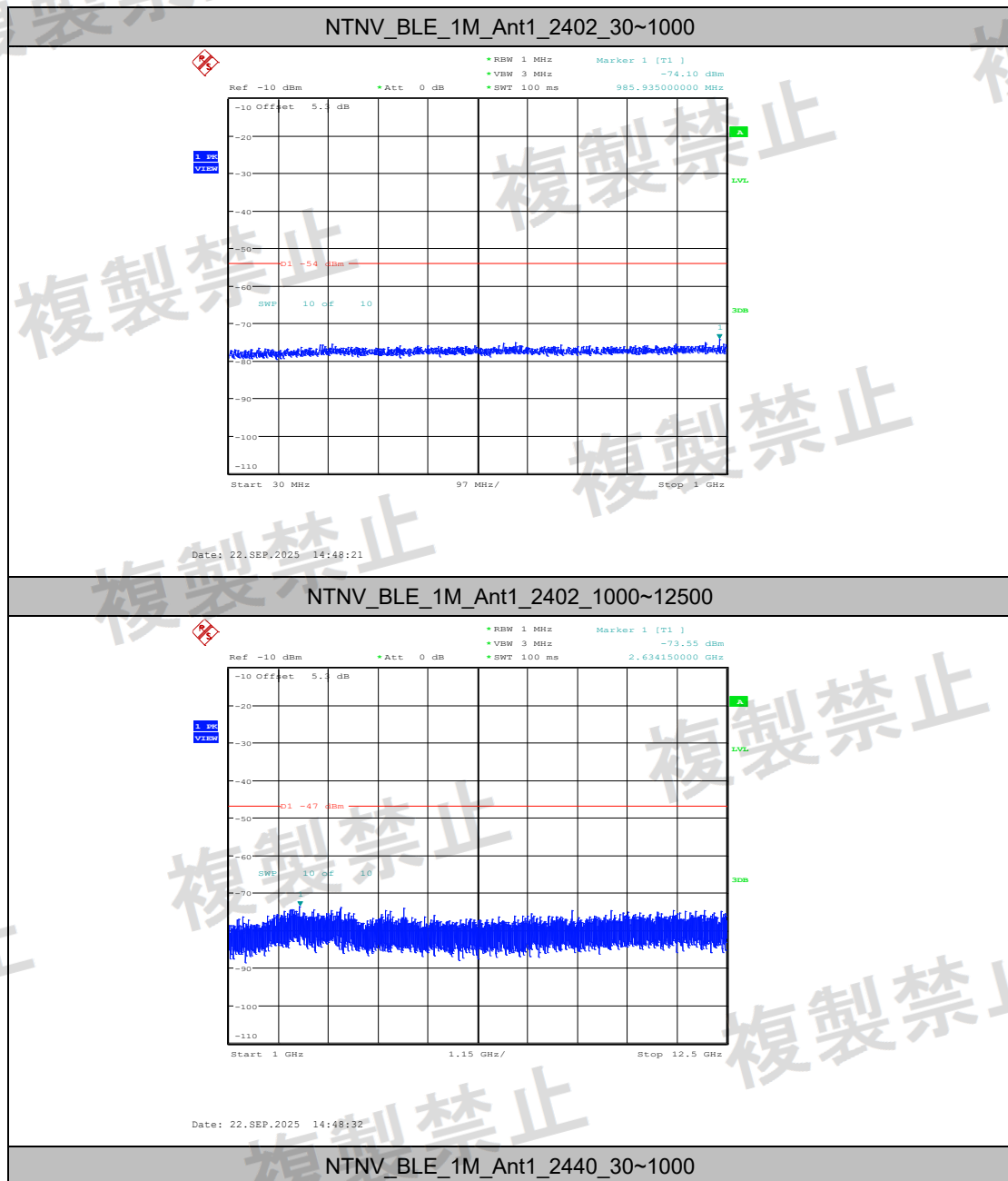


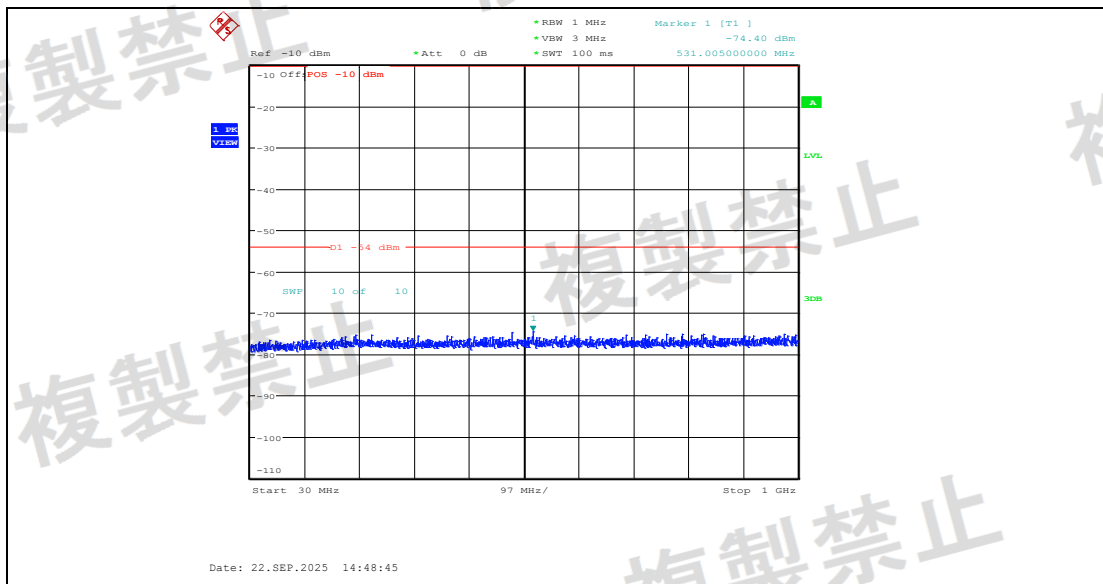
Appendix E: Spurious Emission of RX

Test Result

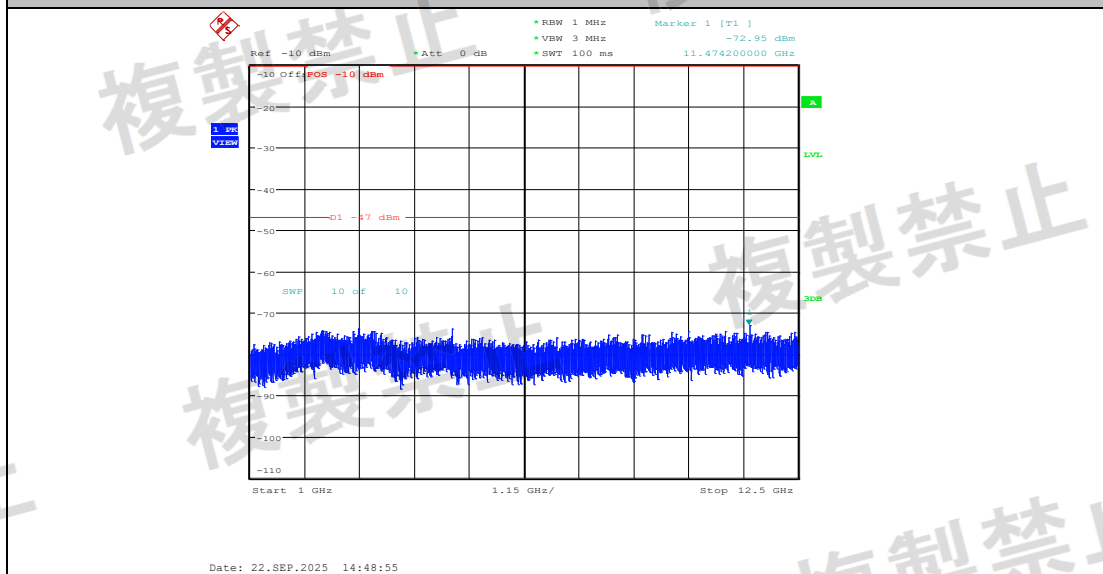
TestCondition	TestMode	Antenna	Freq(MHz)	Freq.Range [MHz]	Freq. [MHz]	Result [dBm]	Limit [dBm]	Result [nW]	Limit [nW]	Verdict
NTNV	BLE_1M	Ant1	2402	30~1000	985.94	-74.10	≤-54	0.03890	≤4	PASS
				1000~12500	2634.15	-73.55	≤-47	0.04416	≤20	PASS
			2440	30~1000	531.01	-74.40	≤-54	0.03631	≤4	PASS
				1000~12500	11474.20	-72.95	≤-47	0.05070	≤20	PASS
			2480	30~1000	267.17	-74.58	≤-54	0.03483	≤4	PASS
				1000~12500	11199.93	-73.07	≤-47	0.04932	≤20	PASS

Test Graphs





NTNV_BLE_1M_Ant1_2440_1000~12500



NTNV_BLE_1M_Ant1_2480_30~1000

