

Appendix RF Test Data for BLE

Company : Shuan Co., Ltd.

EUT : Skyhi Ai Ring

Model Number : R10

Report No. : CTA26012301101

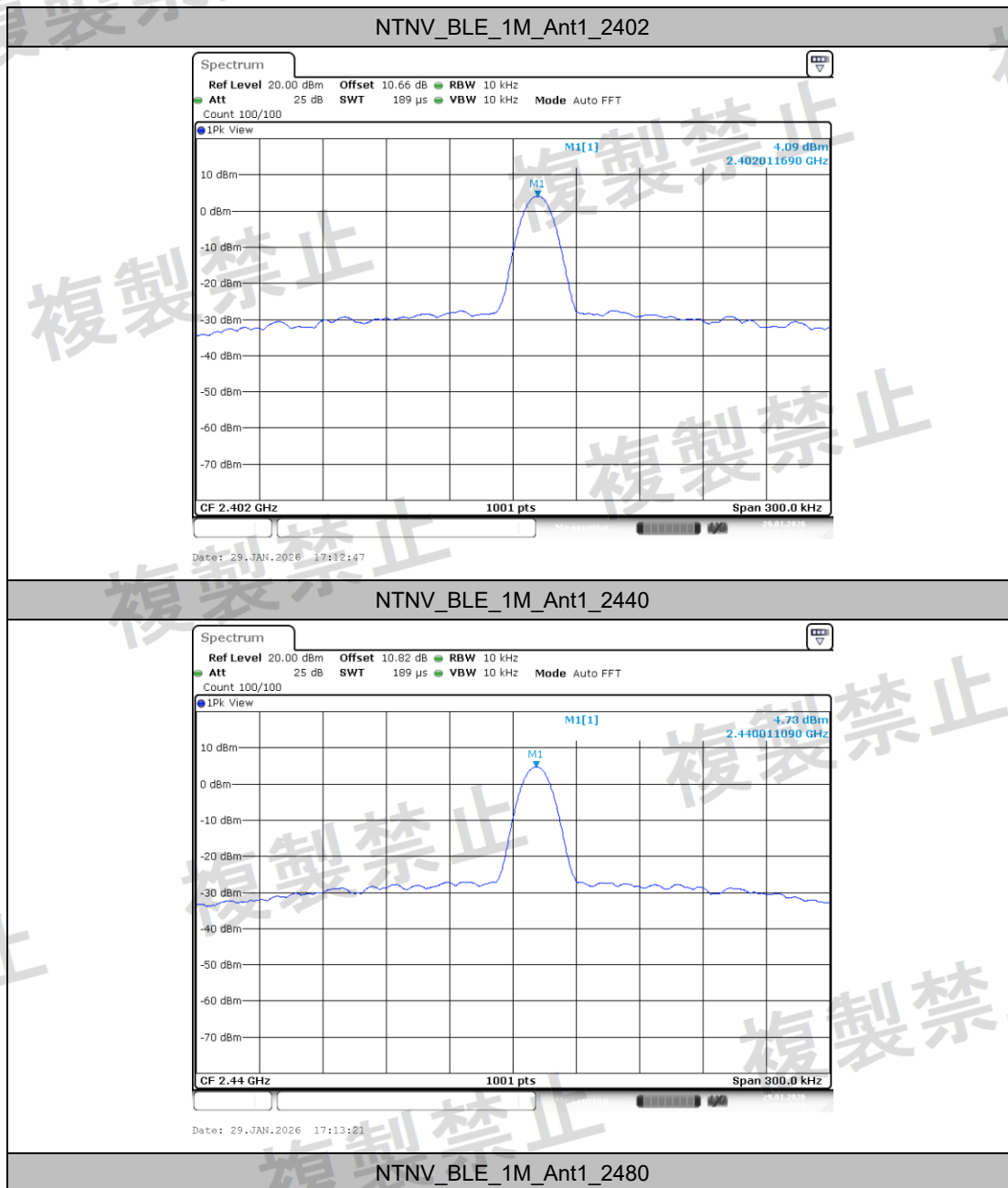
Reviewed By : Eric Wang

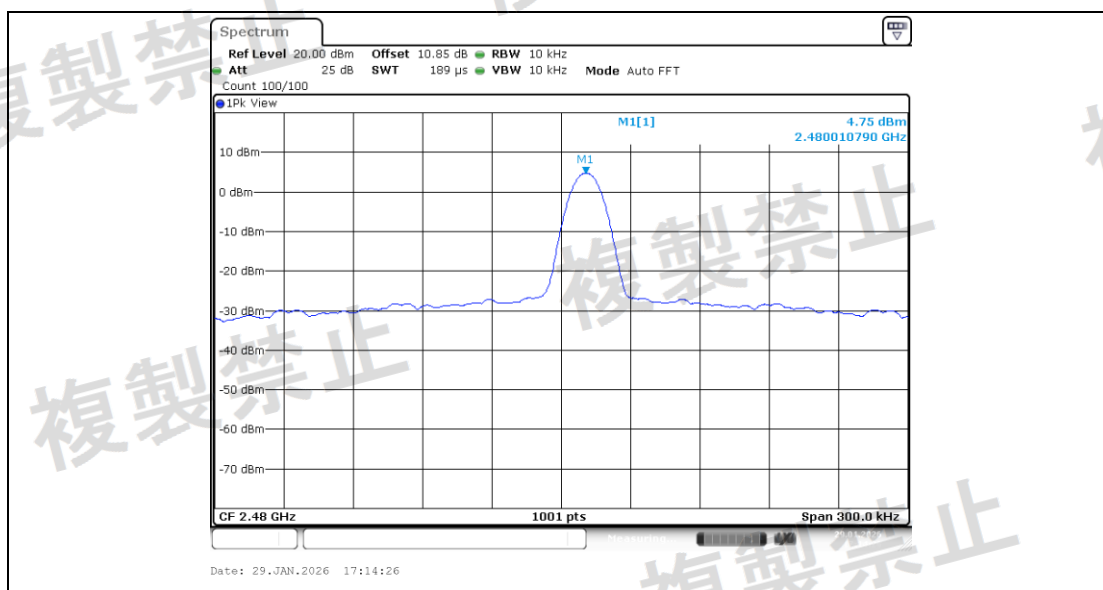
Appendix A: Frequency Error

Test Result

TestCondition	TestMode	Antenna	Freq(MHz)	Result[ppm]	Limit[ppm]	Verdict
NTNV	BLE_1M	Ant1	2402	4.86678	±50	PASS
			2440	4.54508	±50	PASS
			2480	4.35081	±50	PASS

Test Graphs



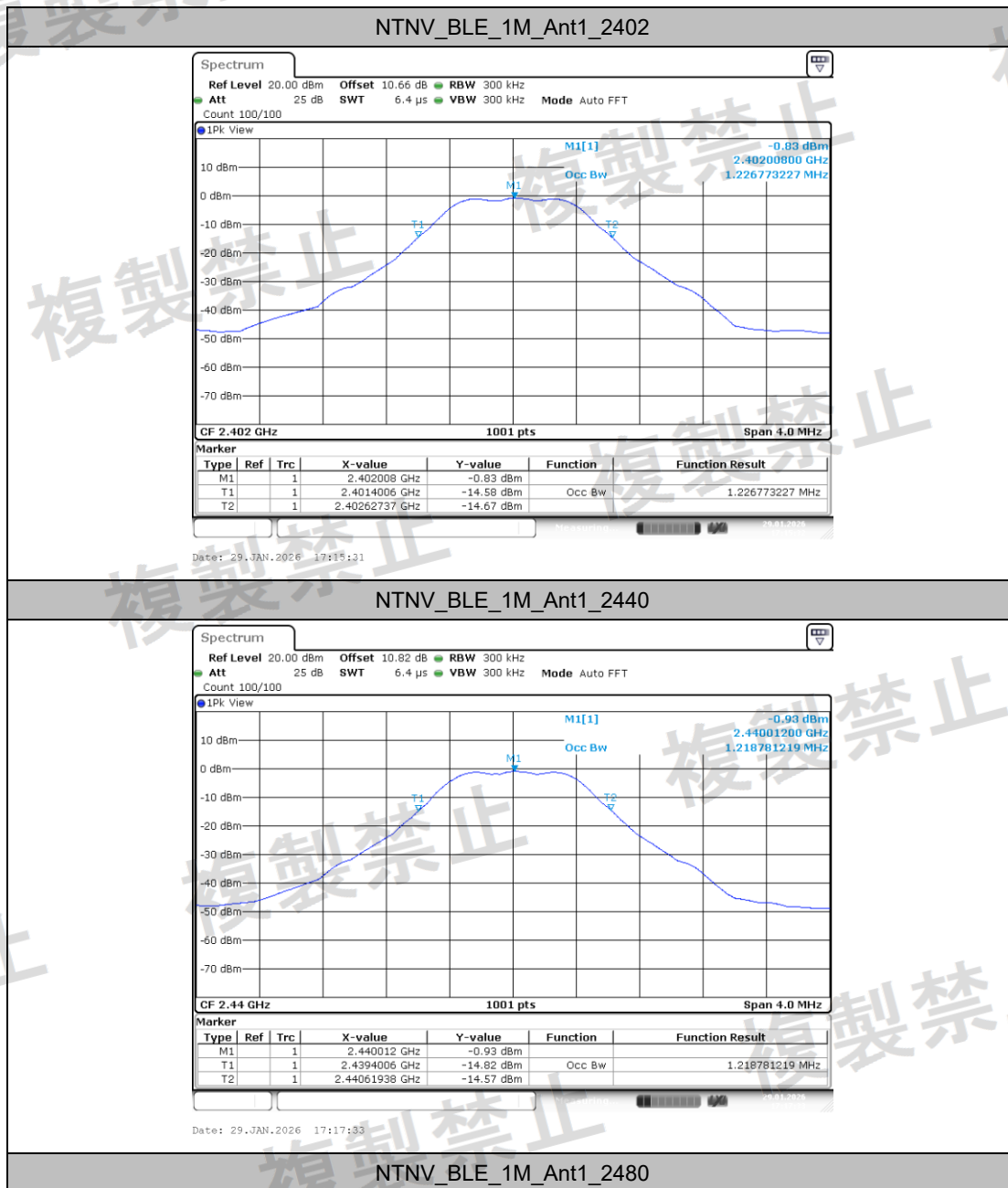


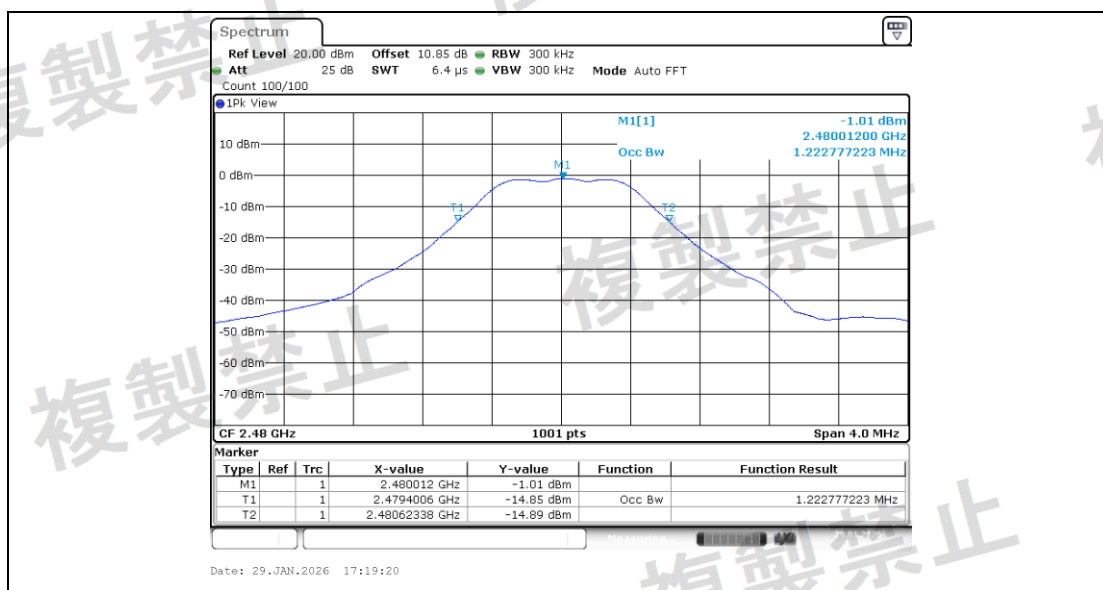
Appendix B: Occupied Bandwidth

Test Result

TestCondition	TestMode	Antenna	Freq(MHz)	Result [MHz]	Limit [MHz]	Verdict
NTNV	BLE_1M	Ant1	2402	1.227	≤26	PASS
			2440	1.219	≤26	PASS
			2480	1.223	≤26	PASS

Test Graphs



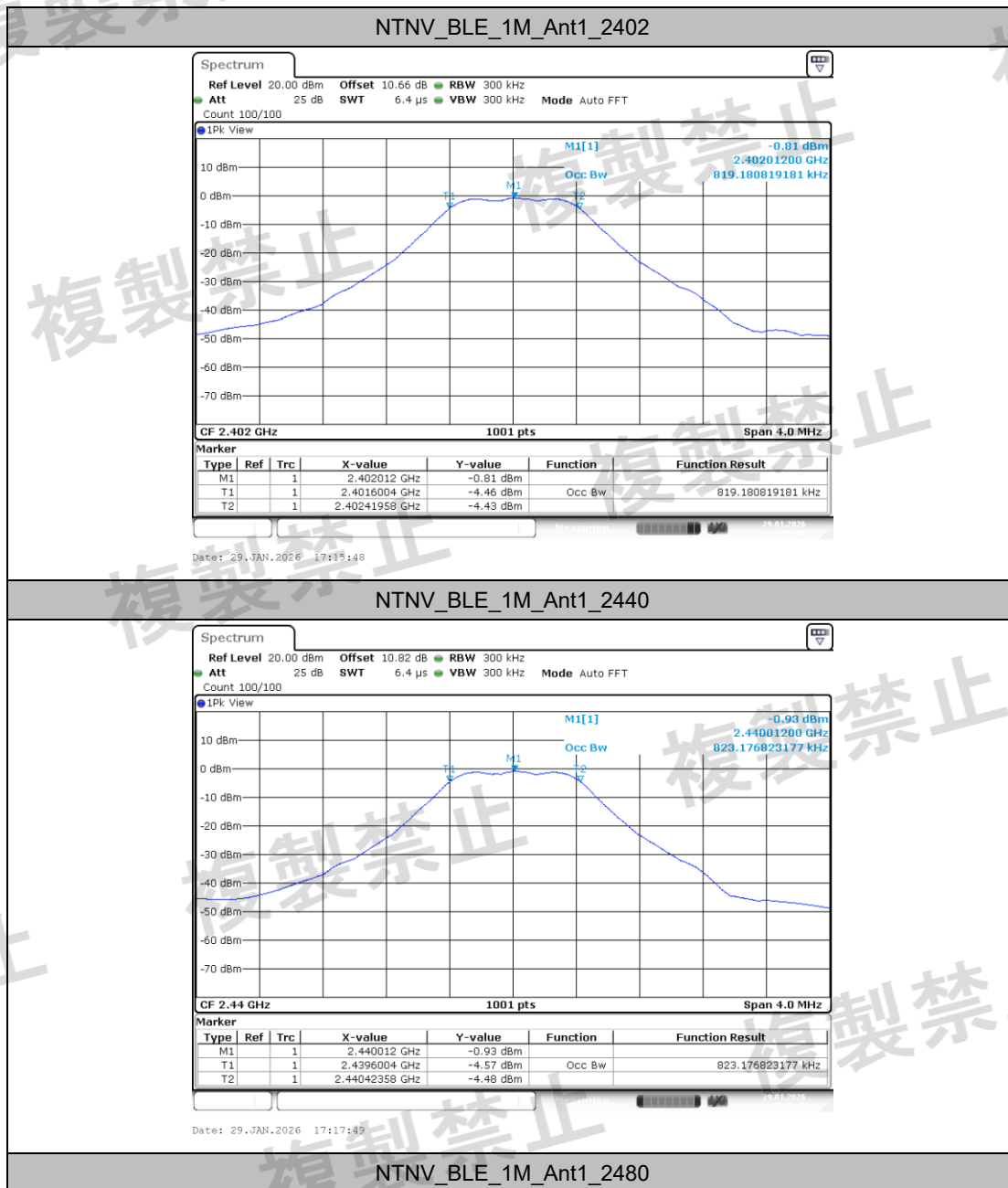


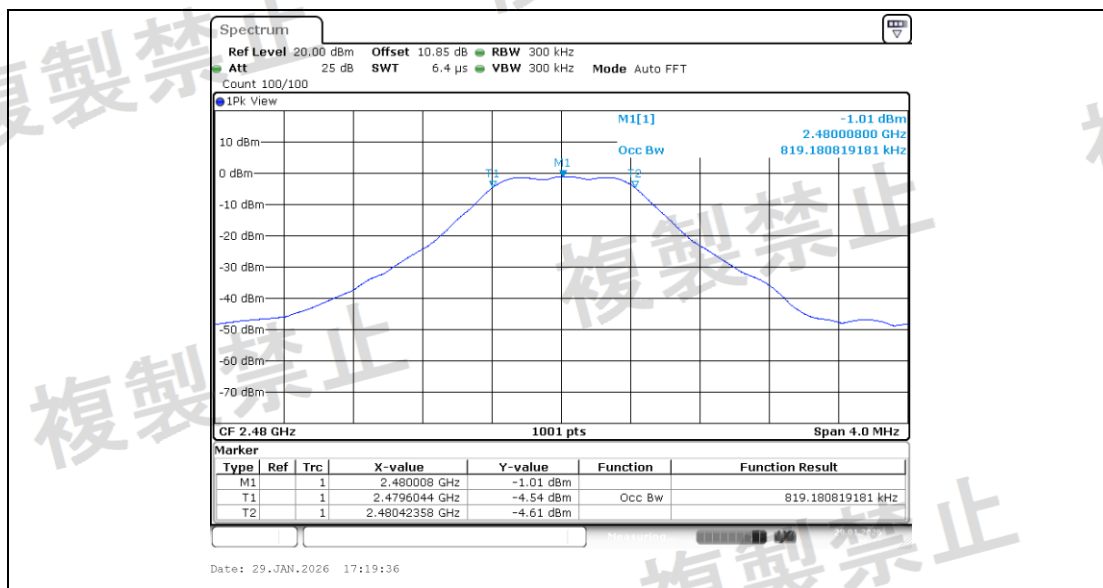
Appendix C: Spread Bandwidth

Test Result

TestCondition	TestMode	Antenna	Freq(MHz)	Result [MHz]	Limit [MHz]	Verdict
NTNV	BLE_1M	Ant1	2402	0.819	≥0.5	PASS
			2440	0.823	≥0.5	PASS
			2480	0.819	≥0.5	PASS

Test Graphs



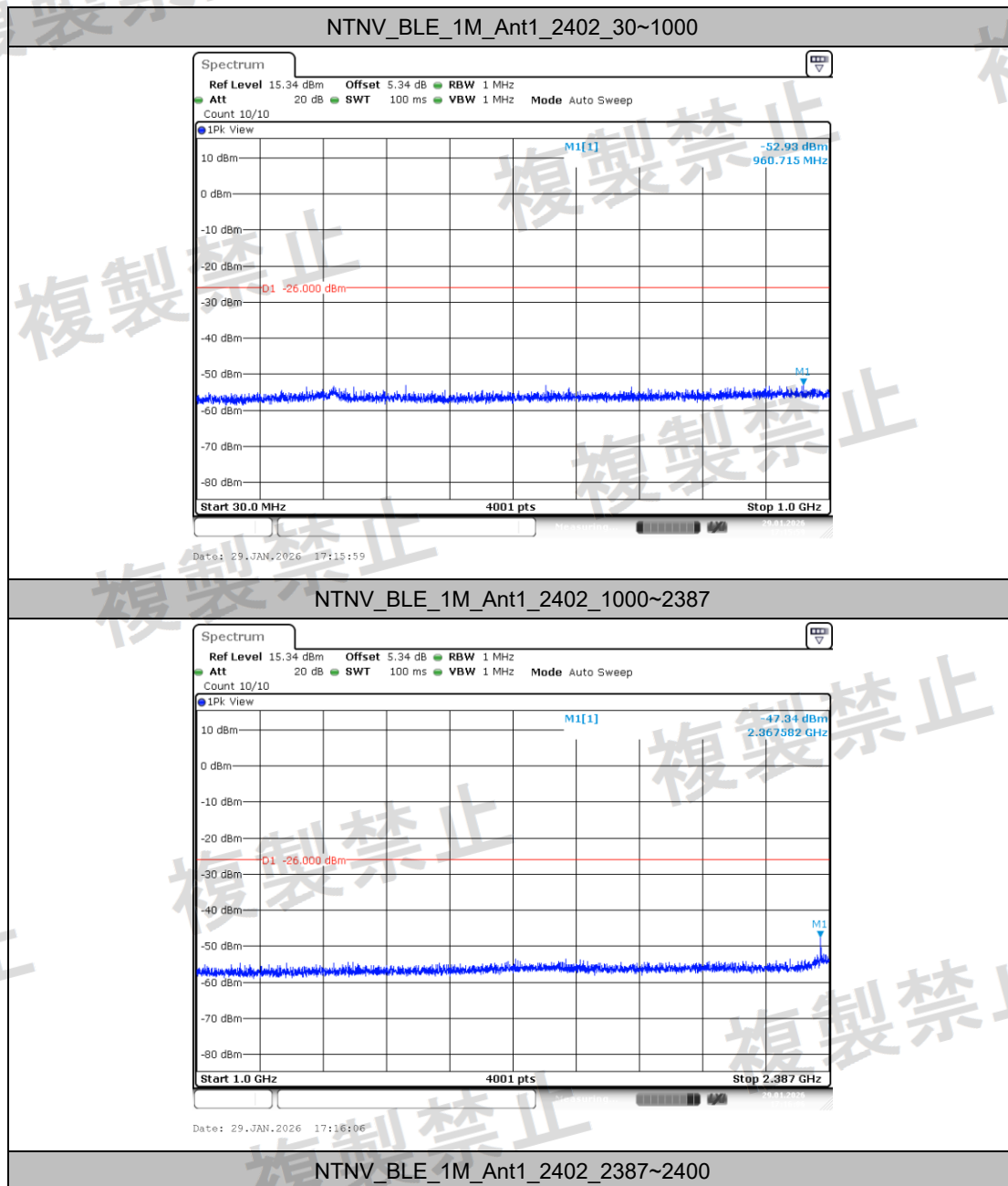


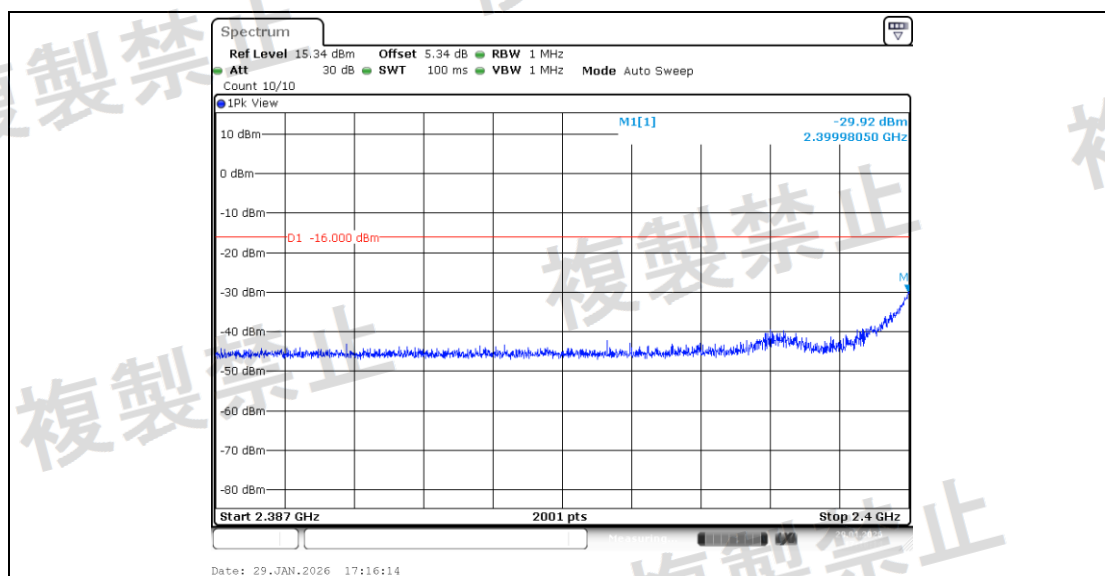
Appendix D: Spurious Emission of TX

Test Result

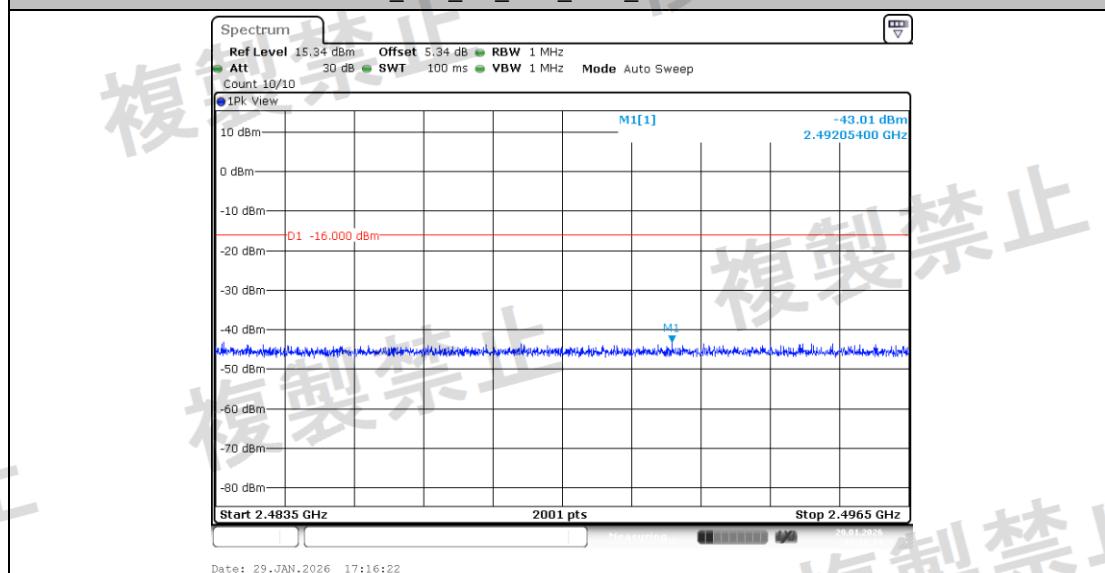
TestCondition	TestMode	Antenna	Freq(MHz)	Freq.Range [MHz]	Freq. [MHz]	Result [dBm]	Limit [dBm]	Result [μW]	Limit [μW]	Verdict
NTNV	BLE_1M	Ant1	2402	30~1000	960.72	-52.93	≤-26	0.00509	≤2.5	PASS
				1000~2387	2367.58	-47.34	≤-26	0.01845	≤2.5	PASS
				2387~2400	2399.98	-29.92	≤-16	1.01859	≤25	PASS
				2483.5~2496.5	2492.05	-43.01	≤-16	0.05000	≤25	PASS
				2496.5~13000	4804.12	-41.31	≤-26	0.07396	≤2.5	PASS
			2440	30~1000	241.95	-52.87	≤-26	0.00516	≤2.5	PASS
				1000~2387	2339.84	-51.81	≤-26	0.00659	≤2.5	PASS
				2387~2400	2397.95	-42.10	≤-16	0.06166	≤25	PASS
				2483.5~2496.5	2492.74	-43.19	≤-16	0.04797	≤25	PASS
				2496.5~13000	4880.27	-41.38	≤-26	0.07278	≤2.5	PASS
			2480	30~1000	877.54	-52.72	≤-26	0.00535	≤2.5	PASS
				1000~2387	1744.82	-53.34	≤-26	0.00463	≤2.5	PASS
				2387~2400	2397.65	-42.98	≤-16	0.05035	≤25	PASS
				2483.5~2496.5	2484.42	-39.61	≤-16	0.10940	≤25	PASS
				2496.5~13000	4960.10	-40.86	≤-26	0.08204	≤2.5	PASS

Test Graphs

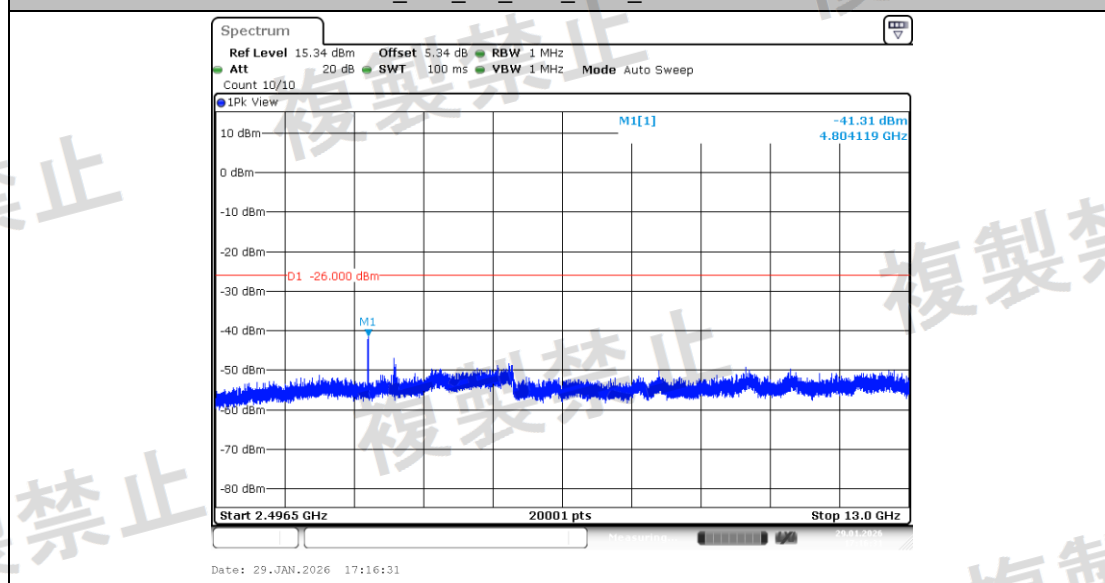


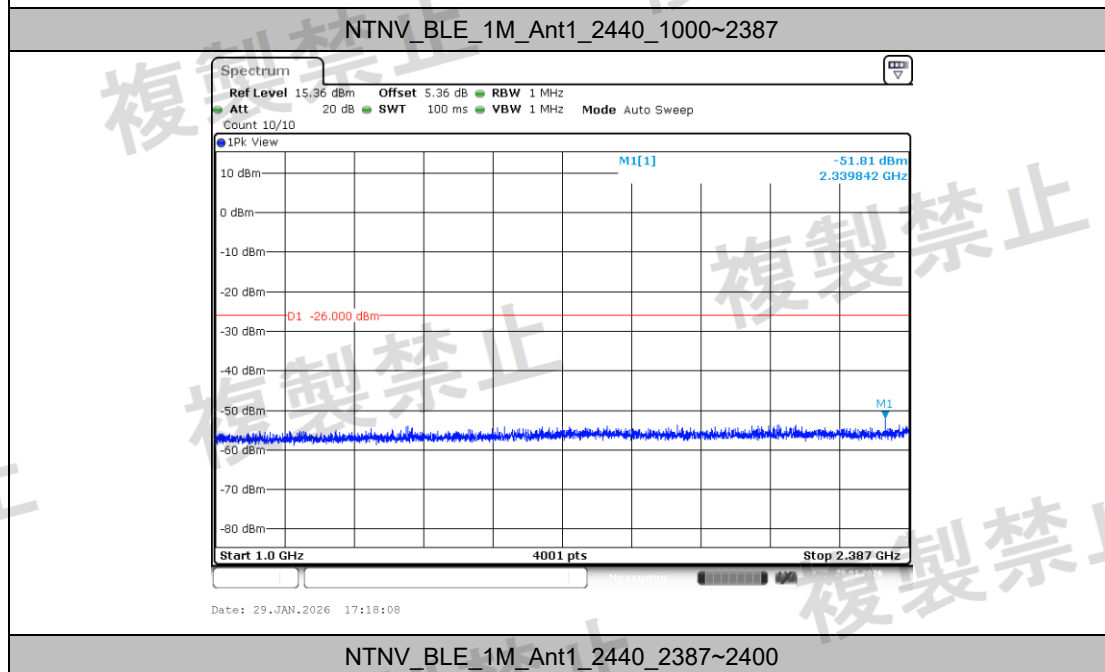
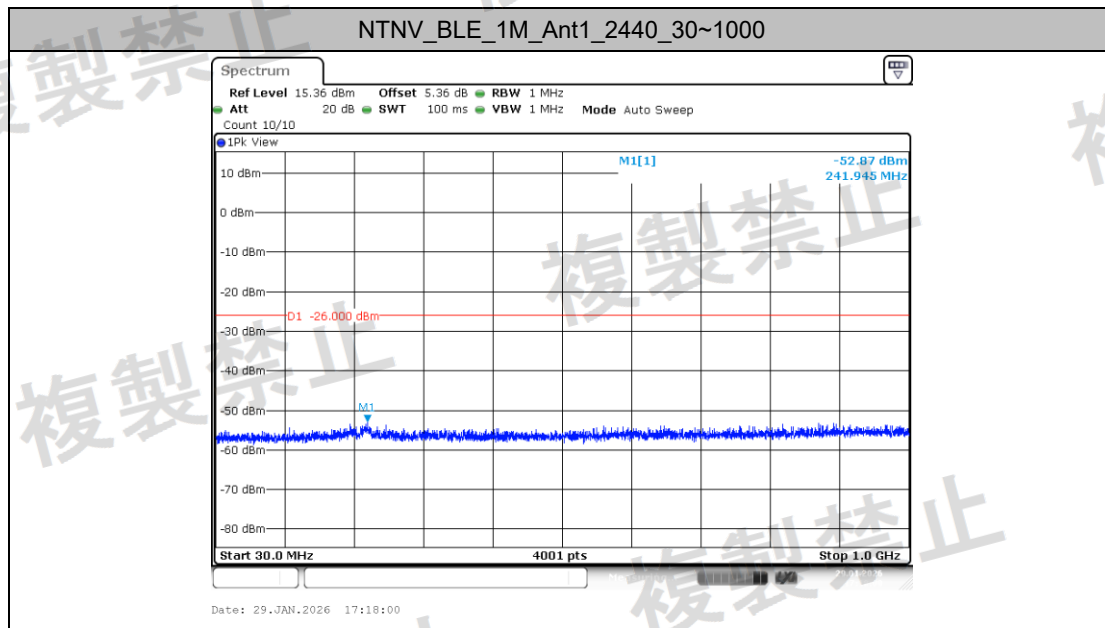


NTNV_BLE_1M_Ant1_2402_2483.5~2496.5

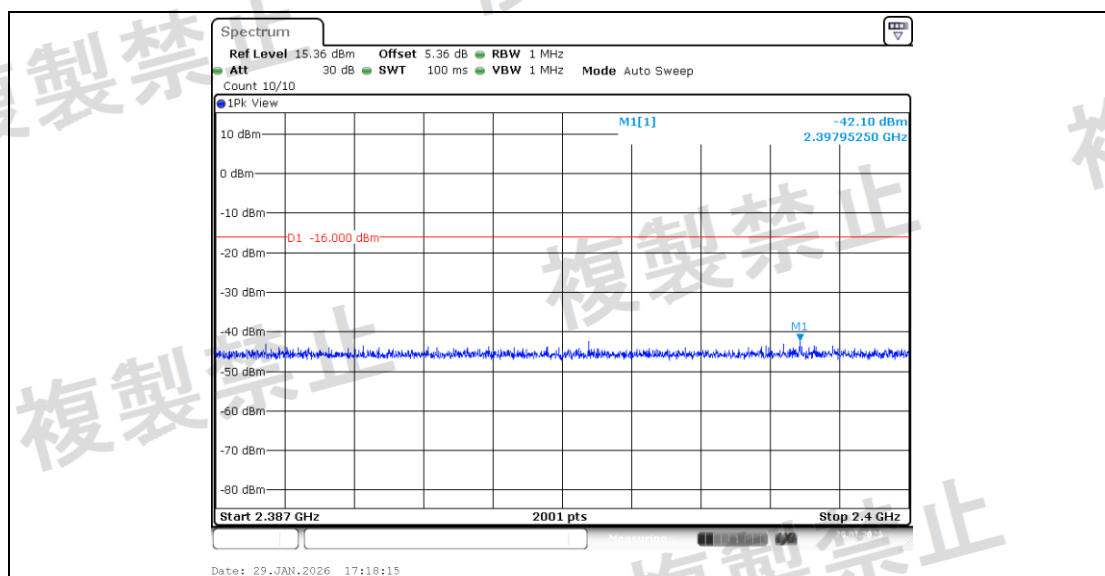


NTNV_BLE_1M_Ant1_2402_2496.5~13000

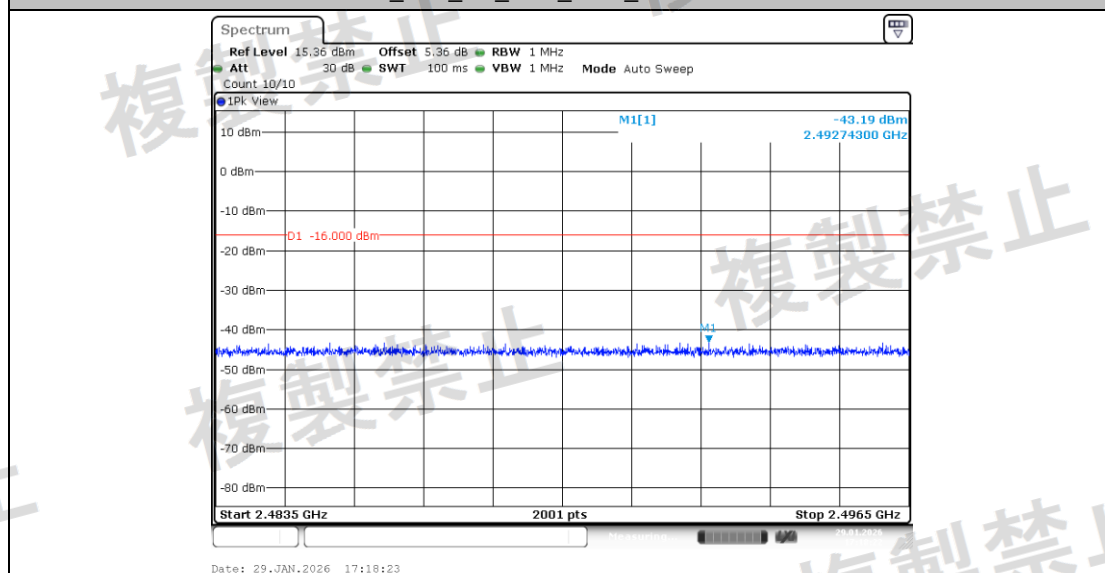




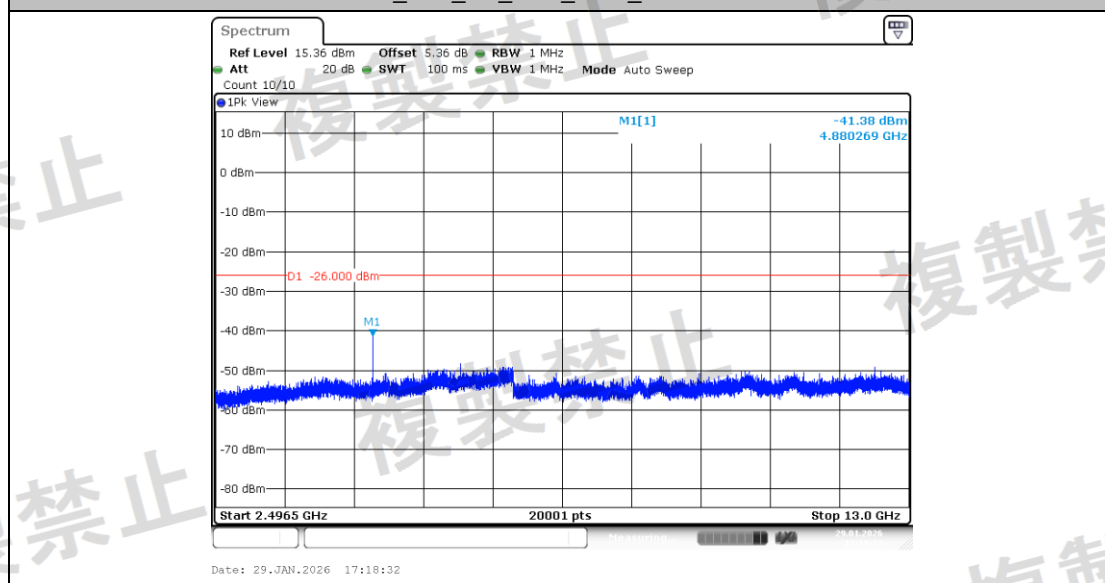
NTNV_BLE_1M_Ant1_2440_2387~2400

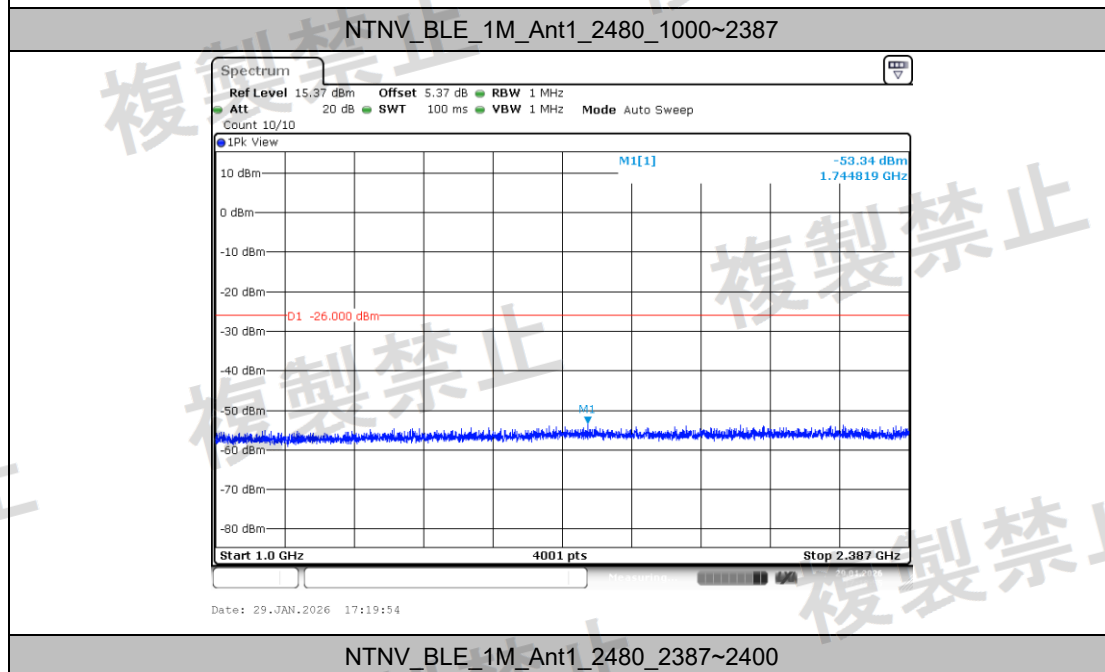
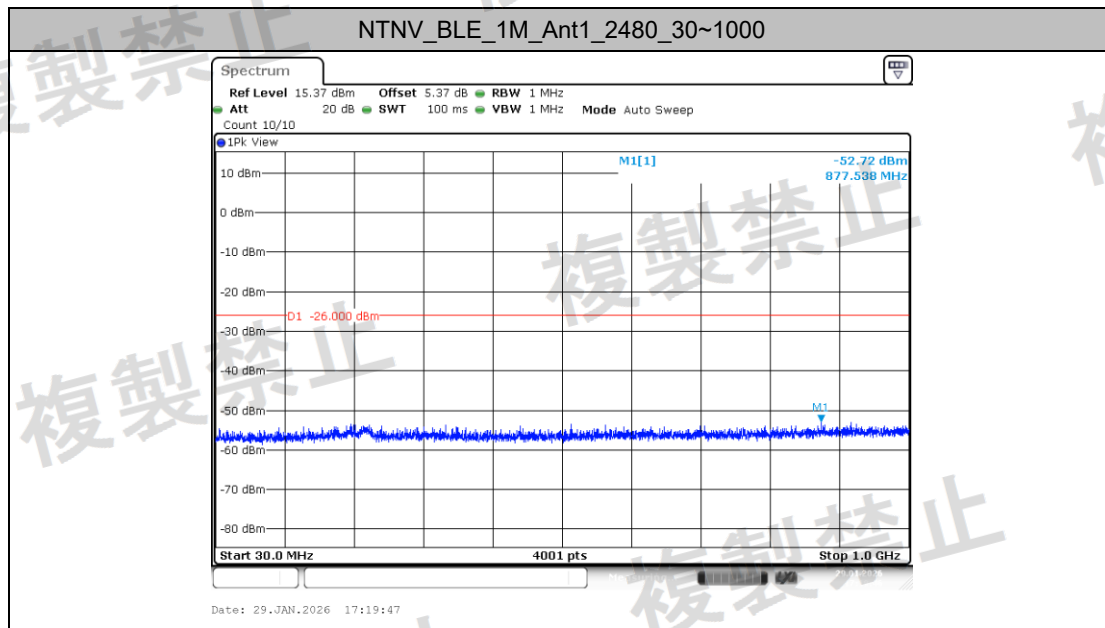


NTNV_BLE_1M_Ant1_2440_2483.5~2496.5

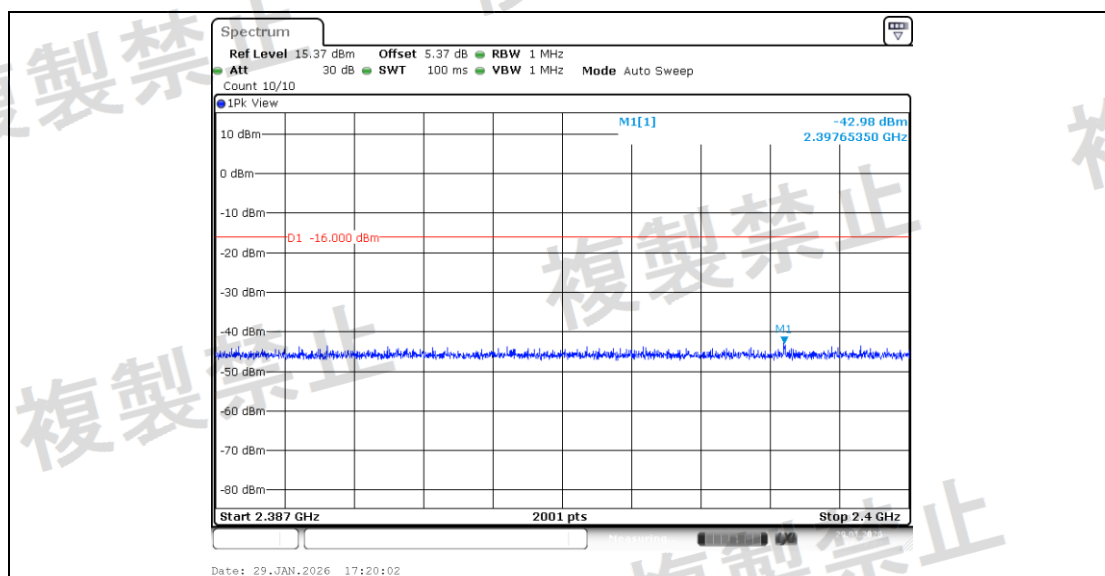


NTNV_BLE_1M_Ant1_2440_2496.5~13000

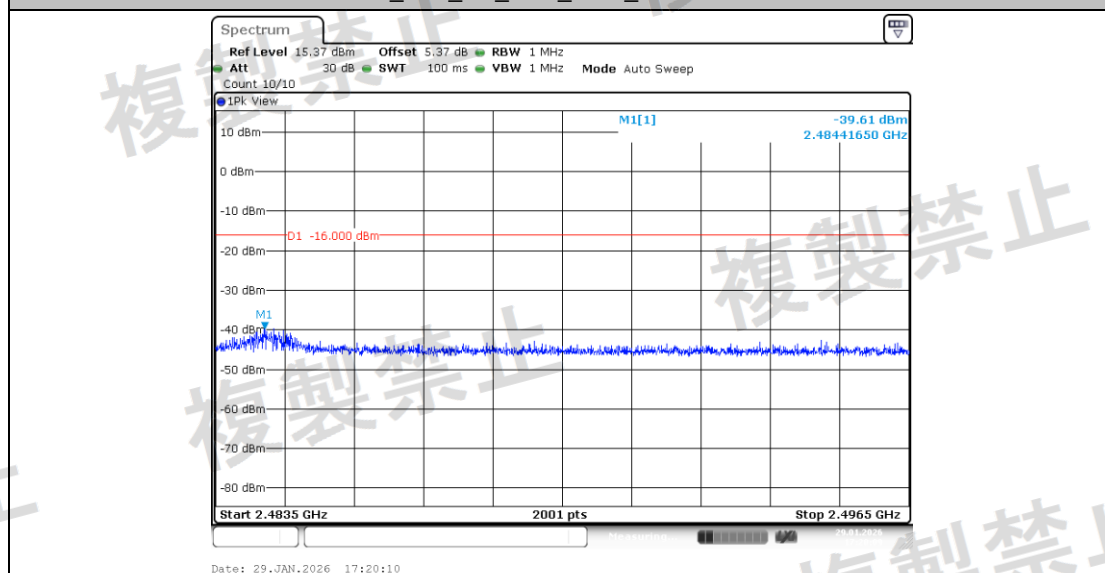




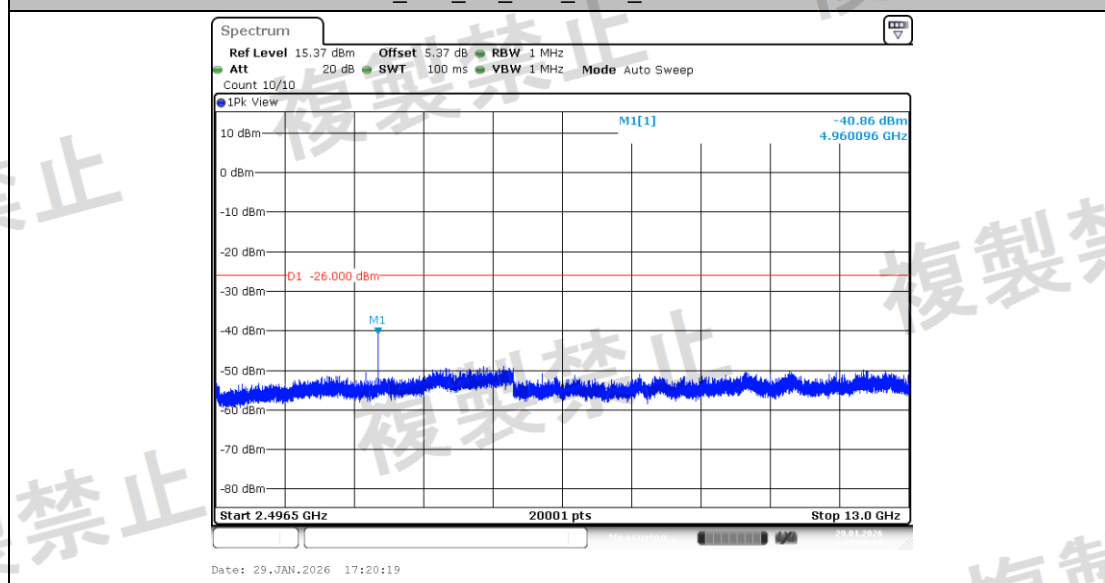
NTNV_BLE_1M_Ant1_2480_2387~2400



NTNV_BLE_1M_Ant1_2480_2483.5~2496.5



NTNV_BLE_1M_Ant1_2480_2496.5~13000

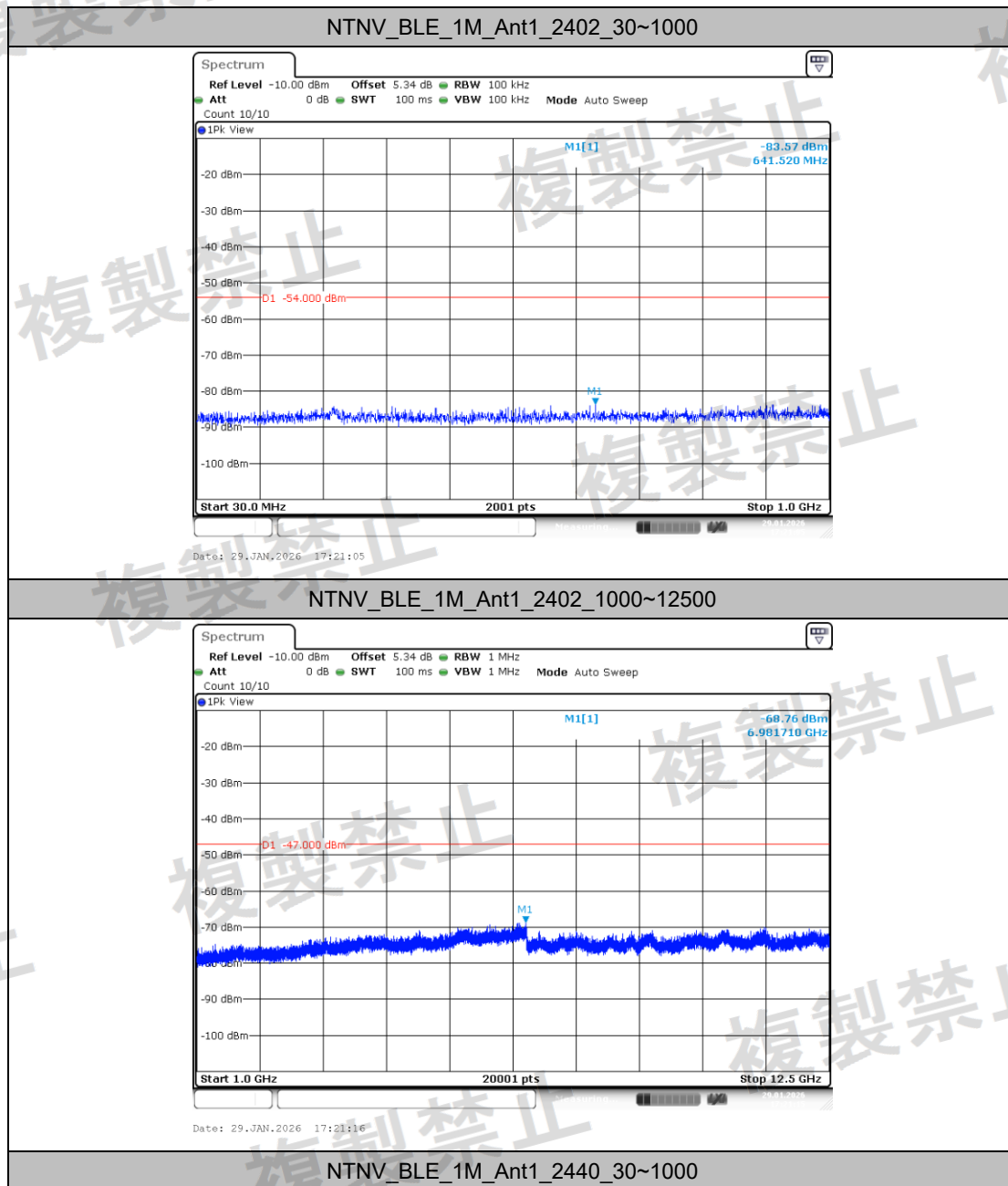


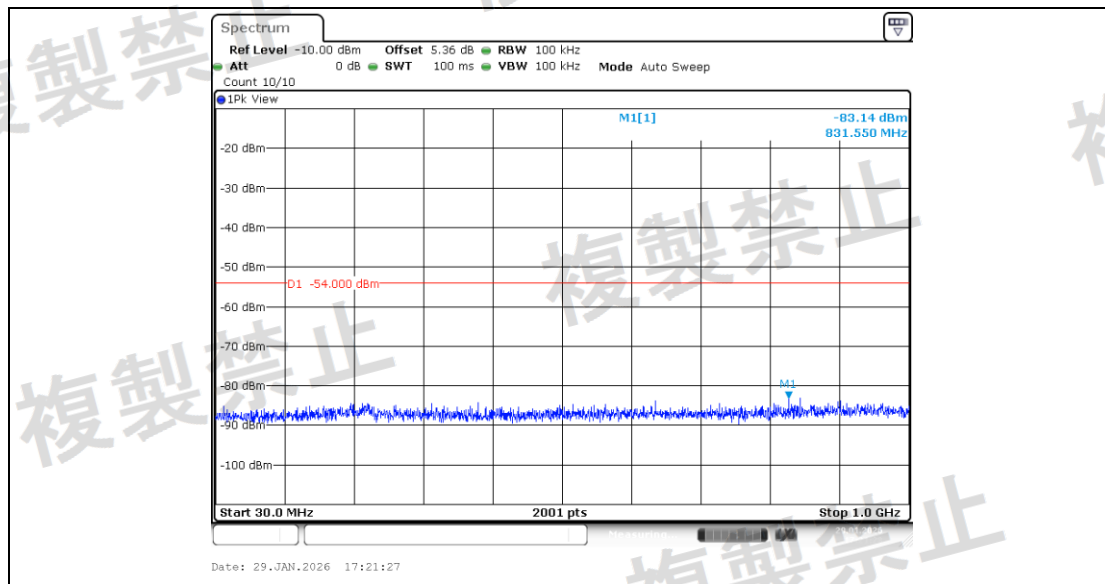
Appendix E: Spurious Emission of RX

Test Result

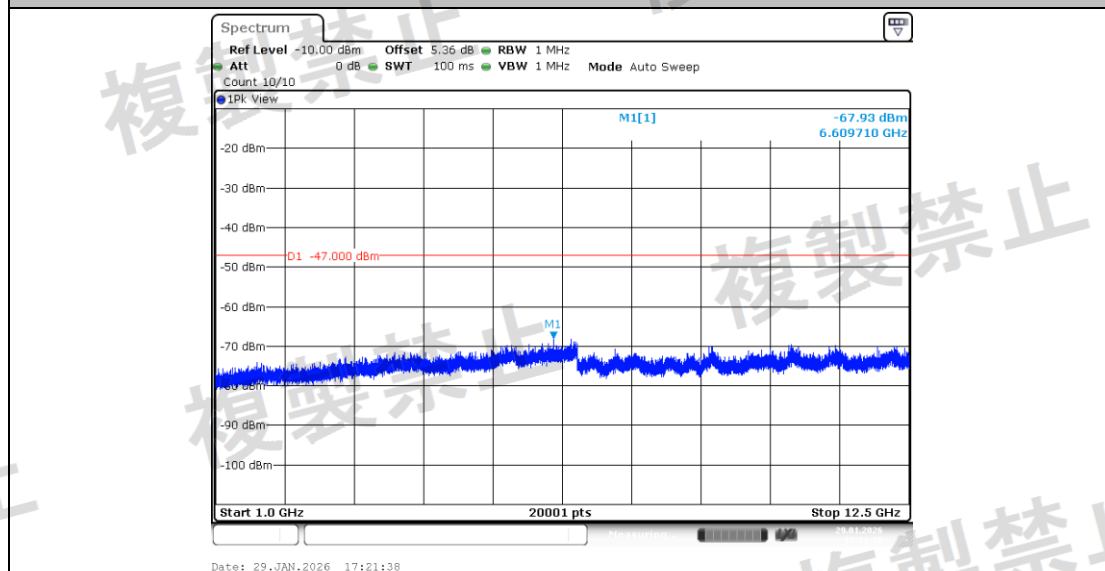
TestCondition	TestMode	Antenna	Freq(MHz)	Freq.Range [MHz]	Freq. [MHz]	Result [dBm]	Limit [dBm]	Result [nW]	Limit [nW]	Verdict
NTNV	BLE_1M	Ant1	2402	30~1000	641.52	-83.57	≤-54	0.00440	≤4	PASS
				1000~12500	6981.71	-68.76	≤-47	0.13305	≤20	PASS
			2440	30~1000	831.55	-83.14	≤-54	0.00485	≤4	PASS
				1000~12500	6609.71	-67.93	≤-47	0.16106	≤20	PASS
			2480	30~1000	923.65	-83.53	≤-54	0.00444	≤4	PASS
				1000~12500	10550.56	-68.71	≤-47	0.13459	≤20	PASS

Test Graphs





NTNV_BLE_1M_Ant1_2440_1000~12500



NTNV_BLE_1M_Ant1_2480_30~1000

