

Appendix RF Test Data for BLE

Company : SOHIMI JAPAN, K.K.

EUT : Massager

Model Number : Vigo

Report No. : CTA26031800501

Reviewed By : Eric Wang

Appendix A: Frequency Error

Test Result

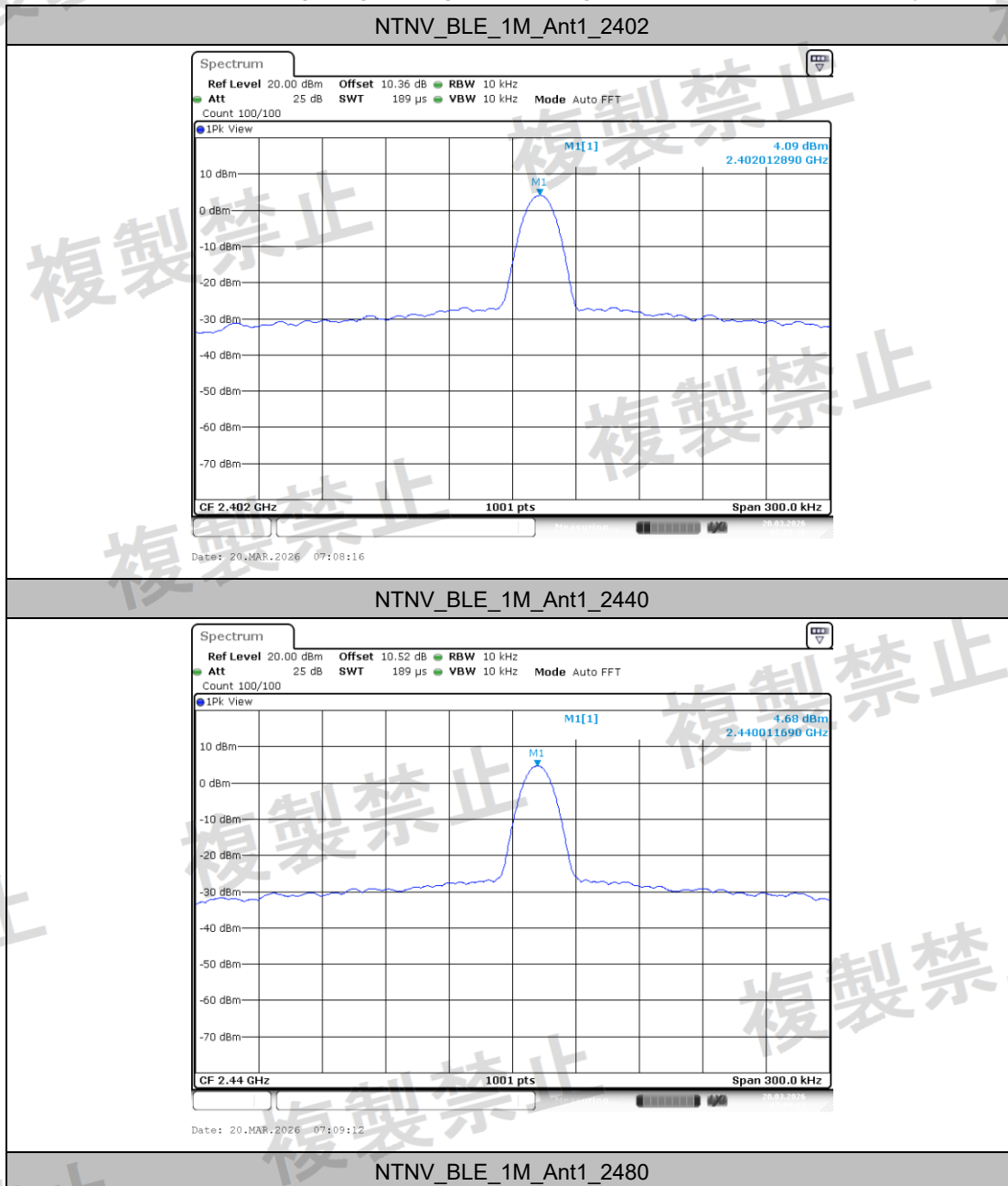
TestCondition	TestMode	Antenna	Freq(MHz)	Result[ppm]	Limit[ppm]	Verdict
NTNV	BLE_1M	Ant1	2402	5.36636	±50	PASS
			2440	4.79098	±50	PASS
			2480	4.71371	±50	PASS

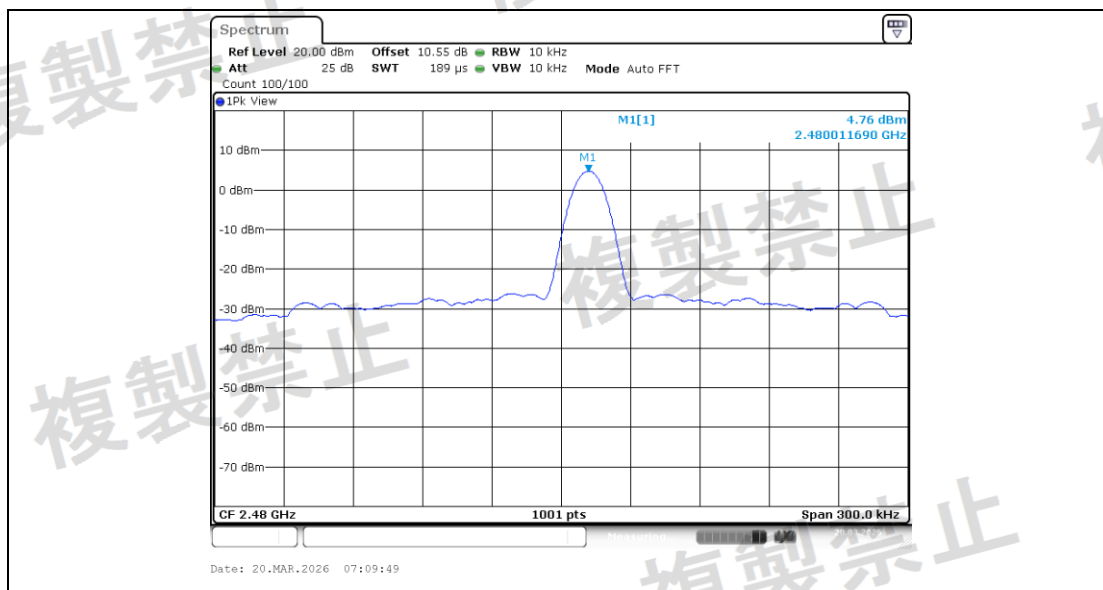
TestCondition	TestMode	Antenna	Freq(MHz)	Result[ppm]	Limit[ppm]	Verdict
NTLV	BLE_1M	Ant1	2402	5.15813	±50	PASS
			2440	4.58053	±50	PASS
			2480	4.50617	±50	PASS

TestCondition	TestMode	Antenna	Freq(MHz)	Result[ppm]	Limit[ppm]	Verdict
NTHV	BLE_1M	Ant1	2402	5.14058	±50	PASS
			2440	4.57316	±50	PASS
			2480	4.50150	±50	PASS

Test Graphs

Note: We test Normal Voltage, High Voltage, Low Voltage, and recorded the worst test plot.





Appendix B: Occupied Bandwidth

Test Result

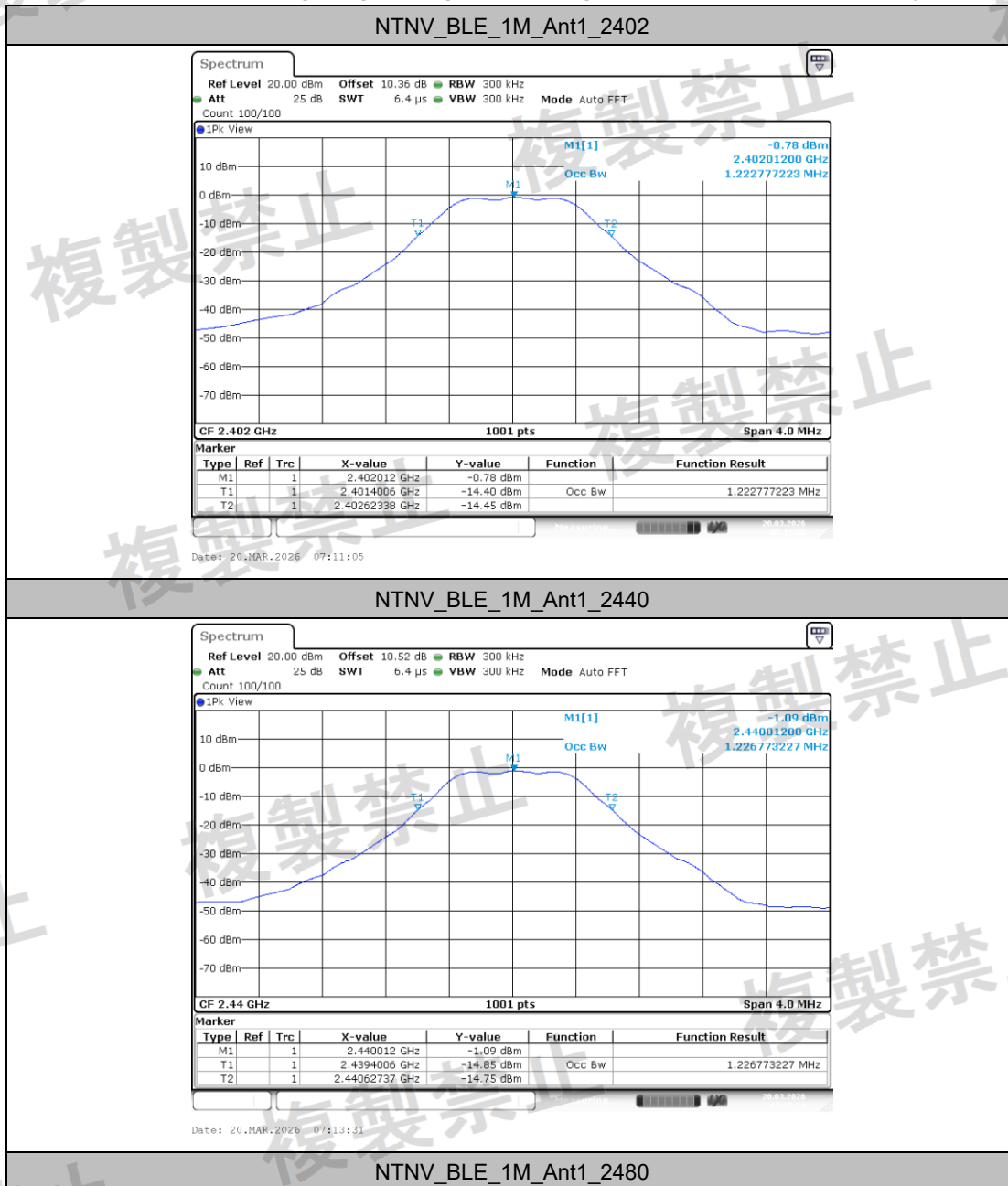
TestCondition	TestMode	Antenna	Freq(MHz)	Result [MHz]	Limit [MHz]	Verdict
NTNV	BLE_1M	Ant1	2402	1.223	≤26	PASS
			2440	1.227	≤26	PASS
			2480	1.227	≤26	PASS

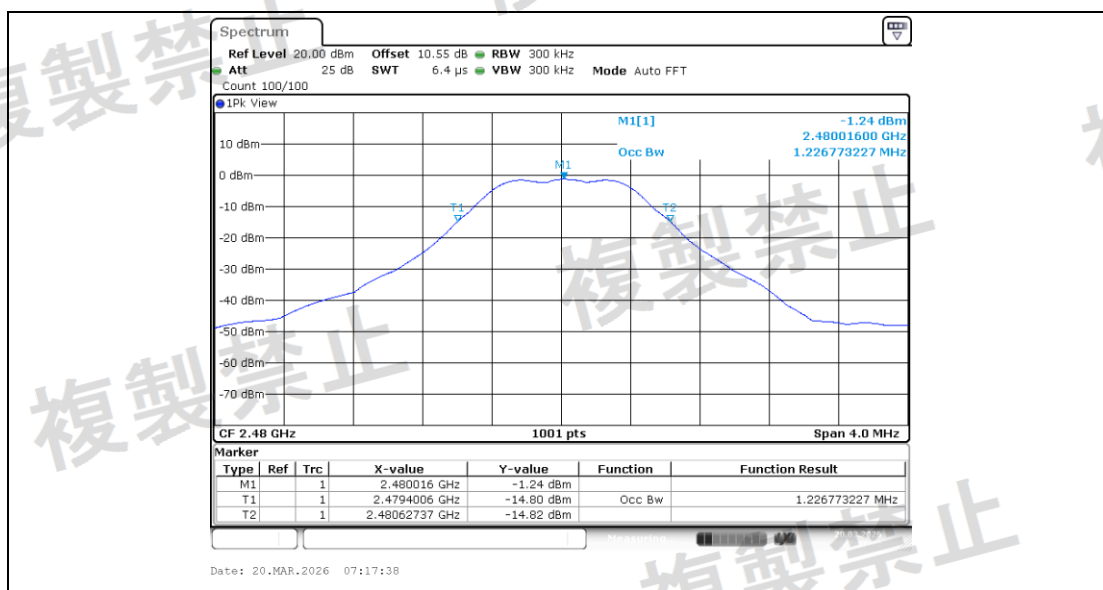
TestCondition	TestMode	Antenna	Freq(MHz)	Result [MHz]	Limit [MHz]	Verdict
NTLV	BLE_1M	Ant1	2402	1.220	≤26	PASS
			2440	1.224	≤26	PASS
			2480	1.226	≤26	PASS

TestCondition	TestMode	Antenna	Freq(MHz)	Result [MHz]	Limit [MHz]	Verdict
NTHV	BLE_1M	Ant1	2402	1.217	≤26	PASS
			2440	1.221	≤26	PASS
			2480	1.223	≤26	PASS

Test Graphs

Note: We test Normal Voltage, High Voltage, Low Voltage, and recorded the worst test plot.





Appendix C: Spread Bandwidth

Test Result

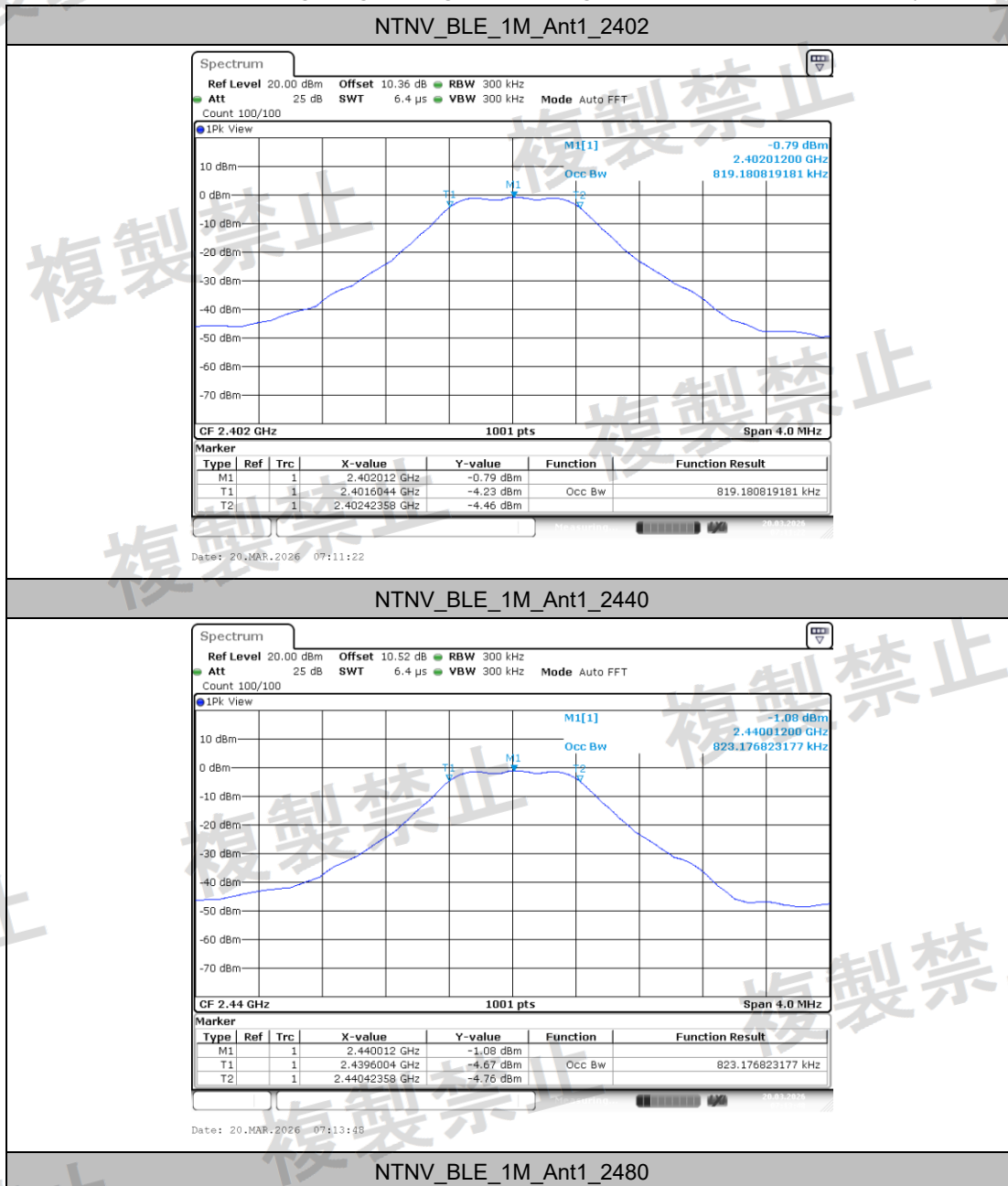
TestCondition	TestMode	Antenna	Freq(MHz)	Result [MHz]	Limit [MHz]	Verdict
NTNV	BLE_1M	Ant1	2402	0.819	≥0.5	PASS
			2440	0.823	≥0.5	PASS
			2480	0.823	≥0.5	PASS

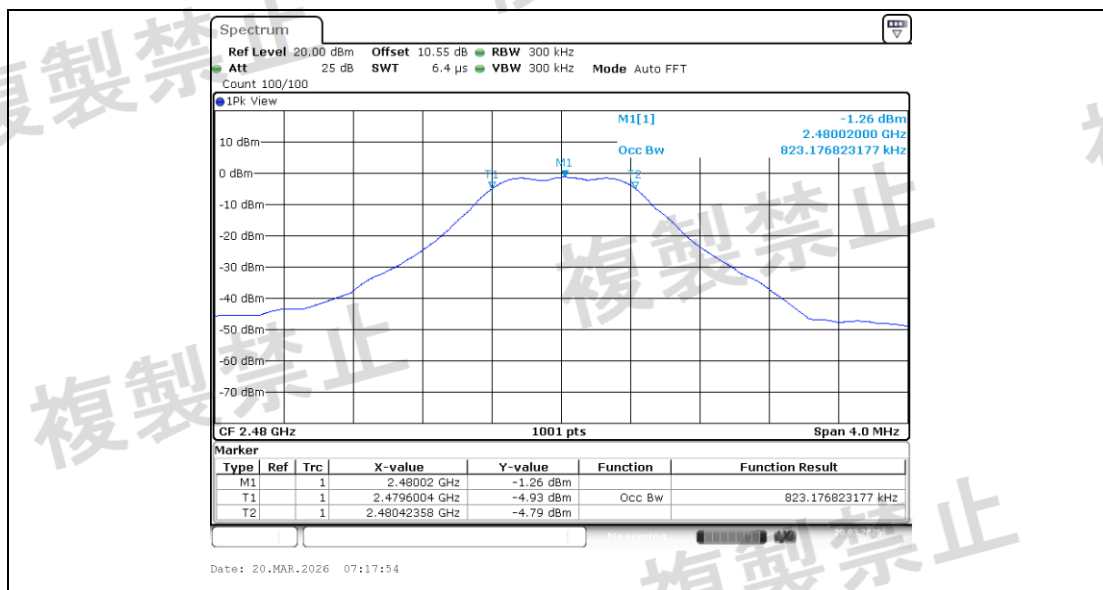
TestCondition	TestMode	Antenna	Freq(MHz)	Result [MHz]	Limit [MHz]	Verdict
NTLV	BLE_1M	Ant1	2402	0.815	≥0.5	PASS
			2440	0.820	≥0.5	PASS
			2480	0.819	≥0.5	PASS

TestCondition	TestMode	Antenna	Freq(MHz)	Result [MHz]	Limit [MHz]	Verdict
NTHV	BLE_1M	Ant1	2402	0.812	≥0.5	PASS
			2440	0.816	≥0.5	PASS
			2480	0.817	≥0.5	PASS

Test Graphs

Note: We test Normal Voltage, High Voltage, Low Voltage, and recorded the worst test plot.





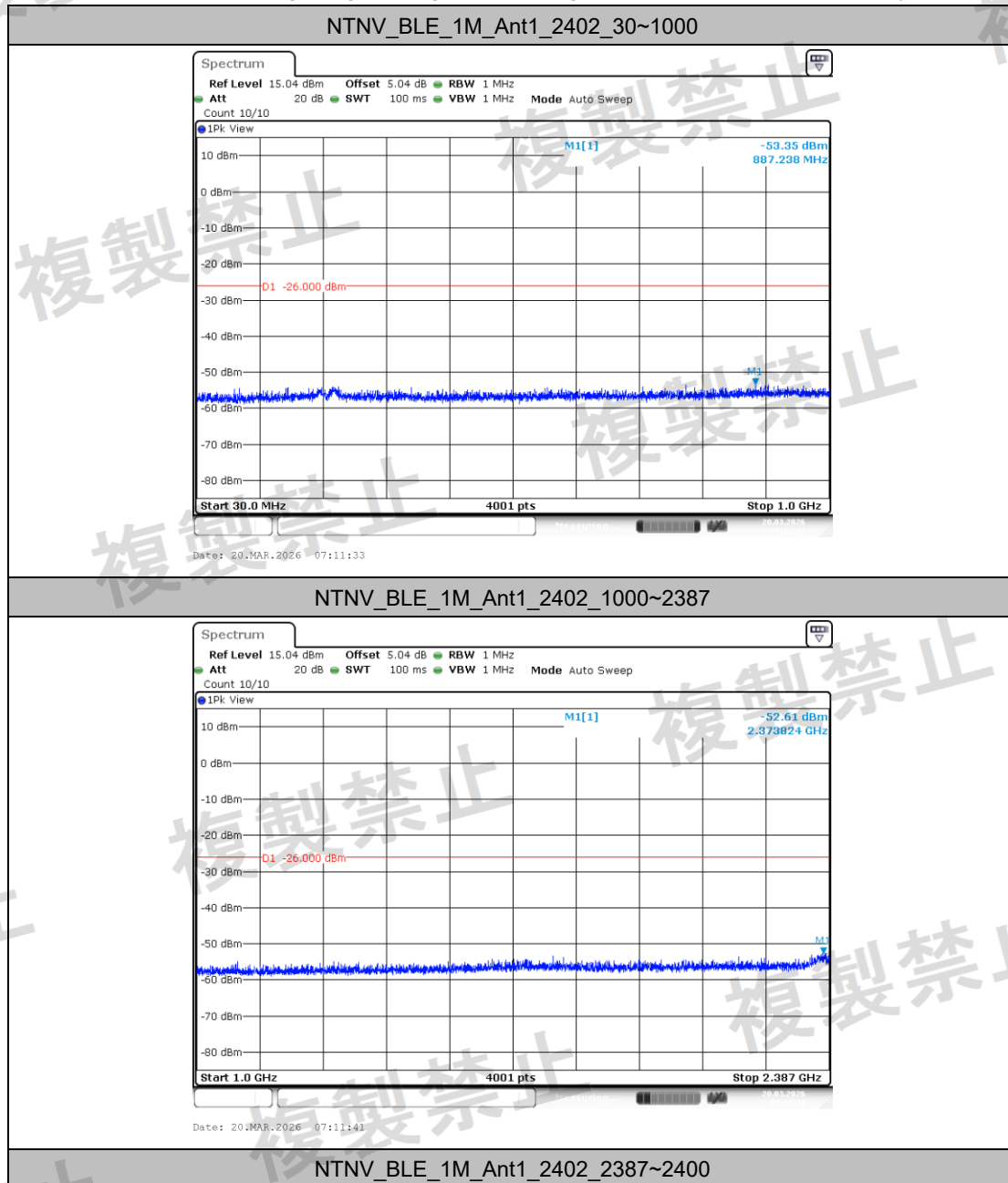
Appendix D: Spurious Emission of TX

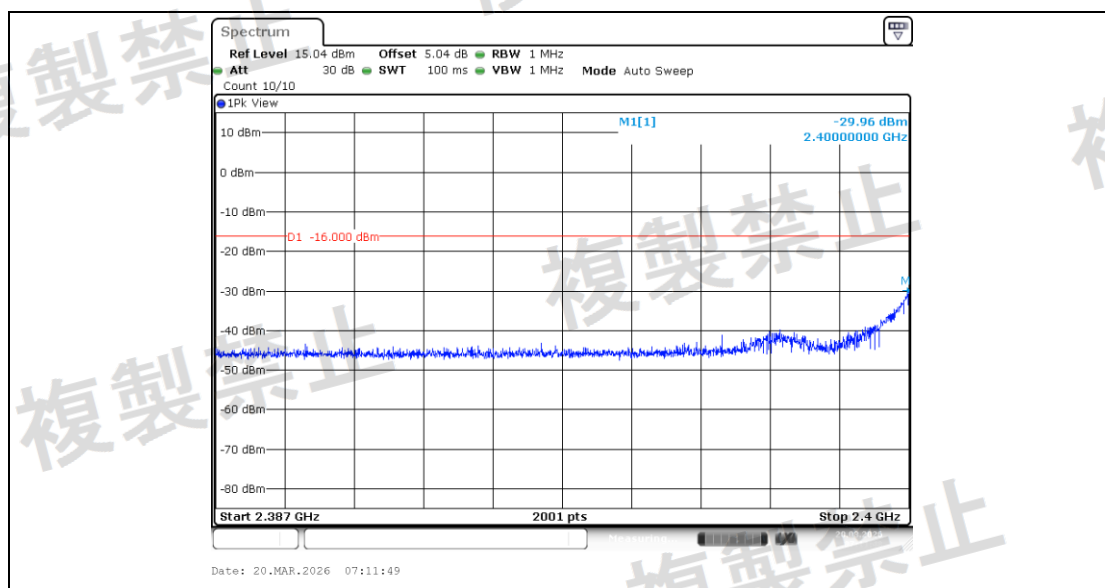
Test Result

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	887.24	-53.35	≤-26	0.00462	≤2.5	PASS
				1000~2387	2373.82	-52.61	≤-26	0.00548	≤2.5	PASS
				2387~2400	2400.00	-29.96	≤-16	1.00925	≤25	PASS
				2483.5~2496.5	2488.64	-43.60	≤-16	0.04365	≤25	PASS
				2496.5~13000	4803.59	-42.84	≤-26	0.05200	≤2.5	PASS
			2440	30~1000	934.77	-53.05	≤-26	0.00495	≤2.5	PASS
				1000~2387	2169.59	-53.74	≤-26	0.00423	≤2.5	PASS
				2387~2400	2388.63	-42.97	≤-16	0.05047	≤25	PASS
				2483.5~2496.5	2488.15	-43.14	≤-16	0.04853	≤25	PASS
				2496.5~13000	4879.74	-42.19	≤-26	0.06039	≤2.5	PASS
			2480	30~1000	878.75	-53.39	≤-26	0.00458	≤2.5	PASS
				1000~2387	2096.42	-53.16	≤-26	0.00483	≤2.5	PASS
				2387~2400	2394.16	-43.56	≤-16	0.04406	≤25	PASS
				2483.5~2496.5	2484.57	-40.13	≤-16	0.09705	≤25	PASS
				2496.5~13000	5225.83	-41.19	≤-26	0.07603	≤2.5	PASS

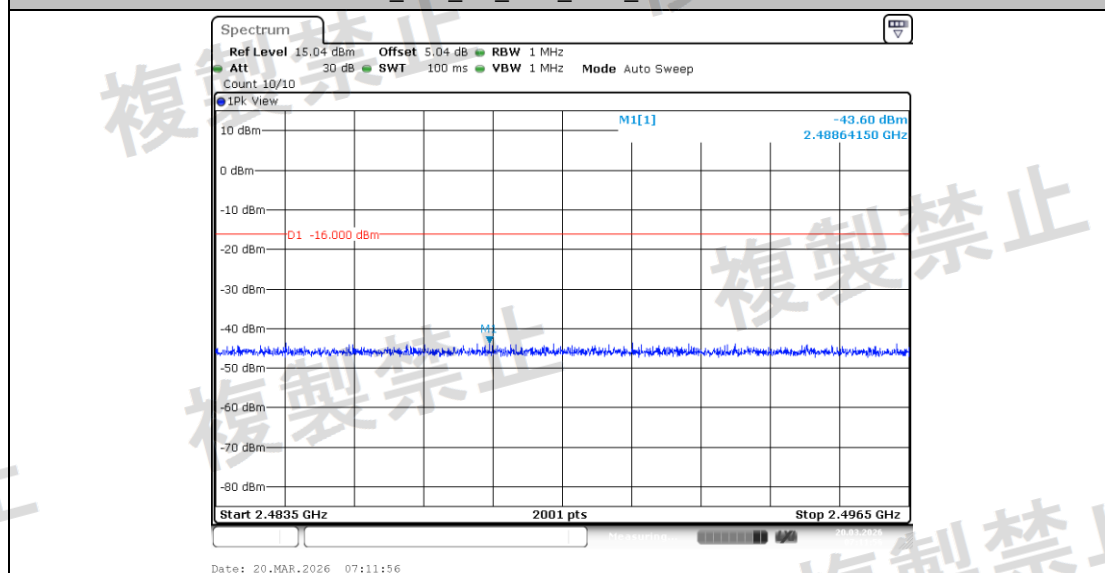
Test Graphs

Note: We test Normal Voltage, High Voltage, Low Voltage, and recorded the worst test plot.

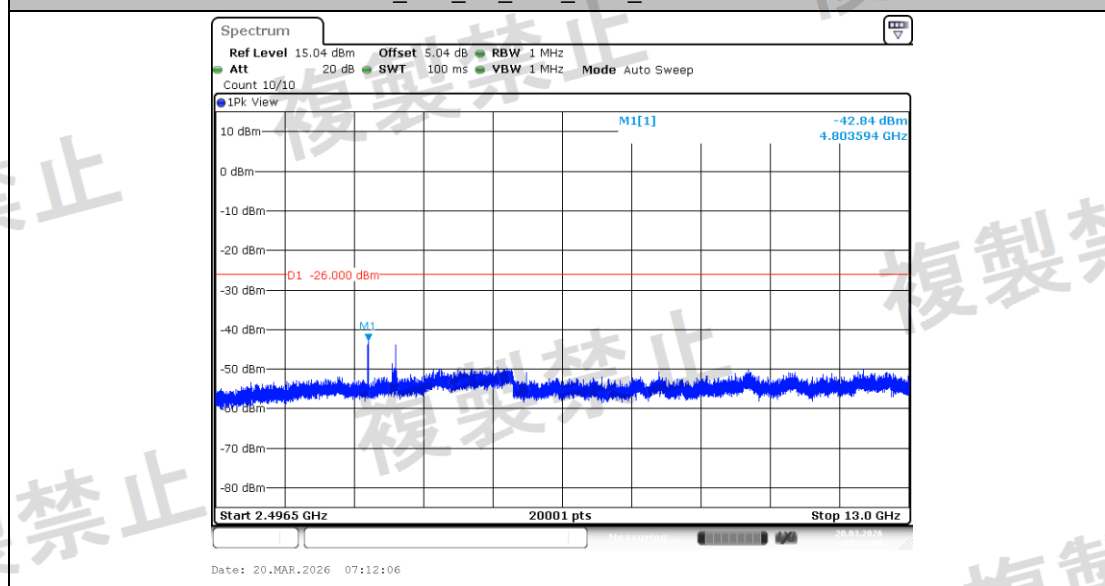


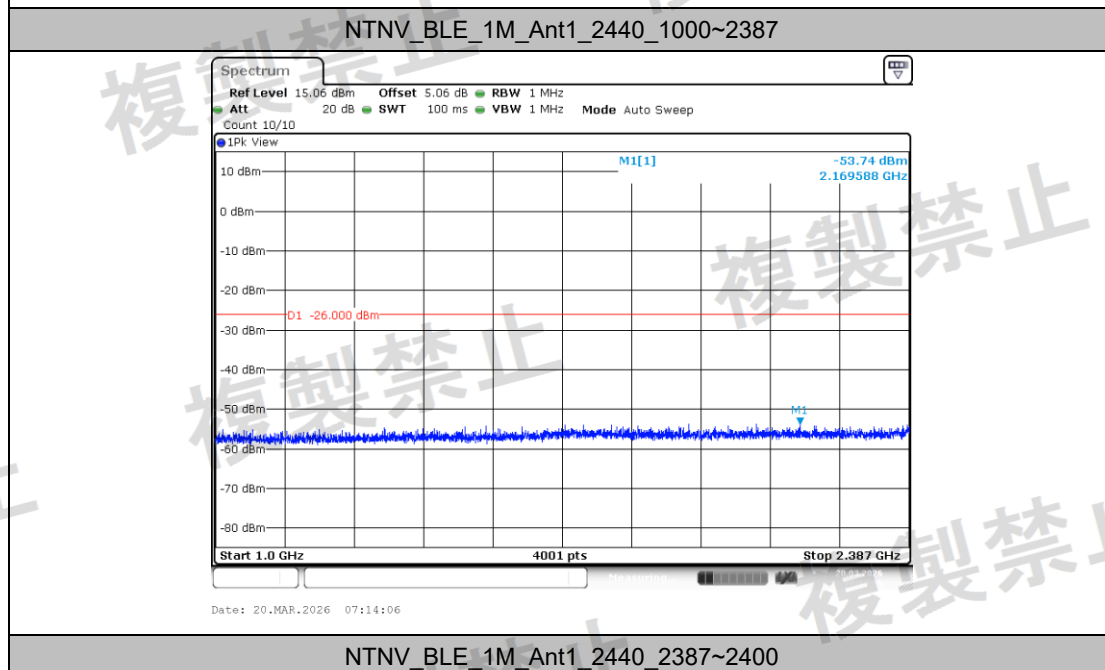
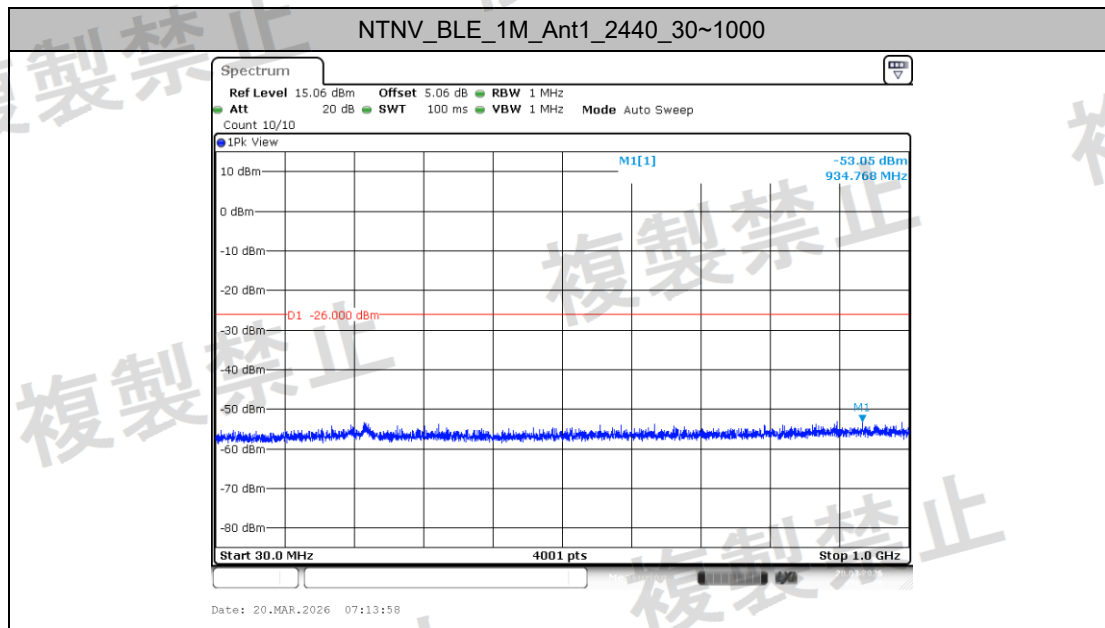


NTNV_BLE_1M_Ant1_2402_2483.5~2496.5

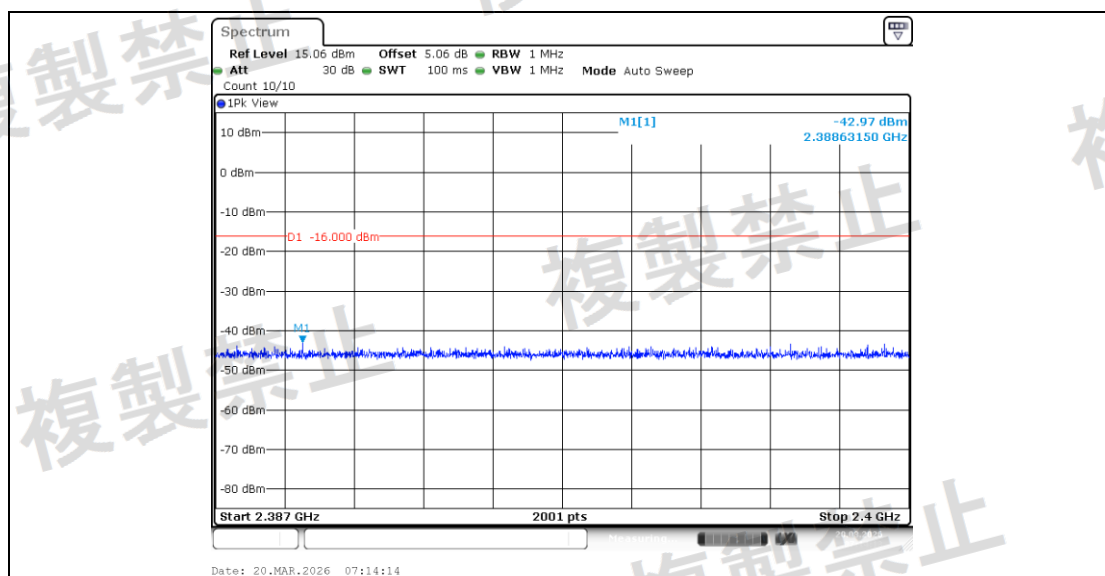


NTNV_BLE_1M_Ant1_2402_2496.5~13000

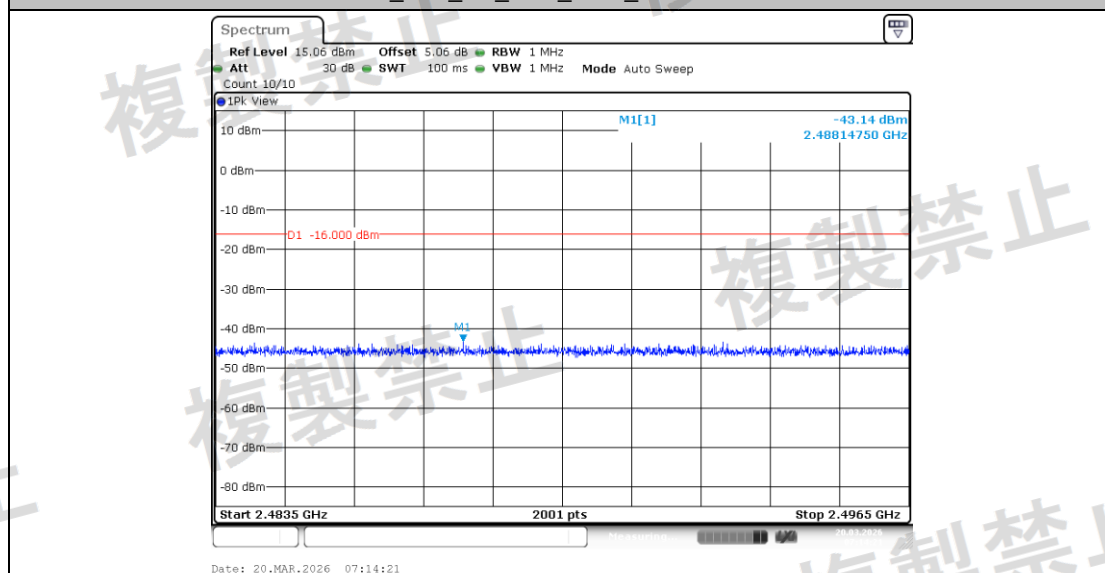




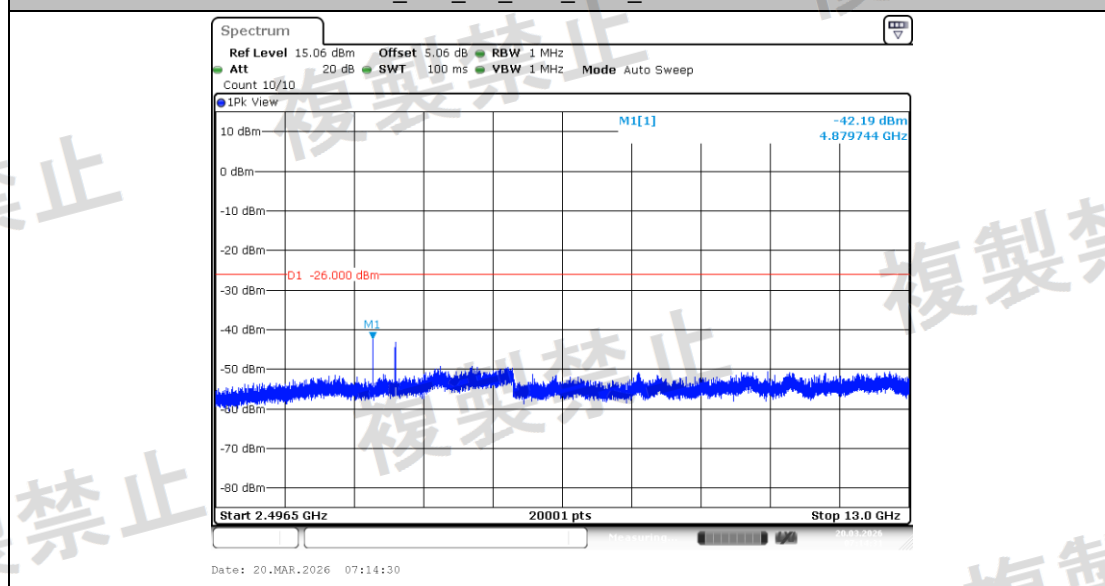
NTNV_BLE_1M_Ant1_2440_2387~2400

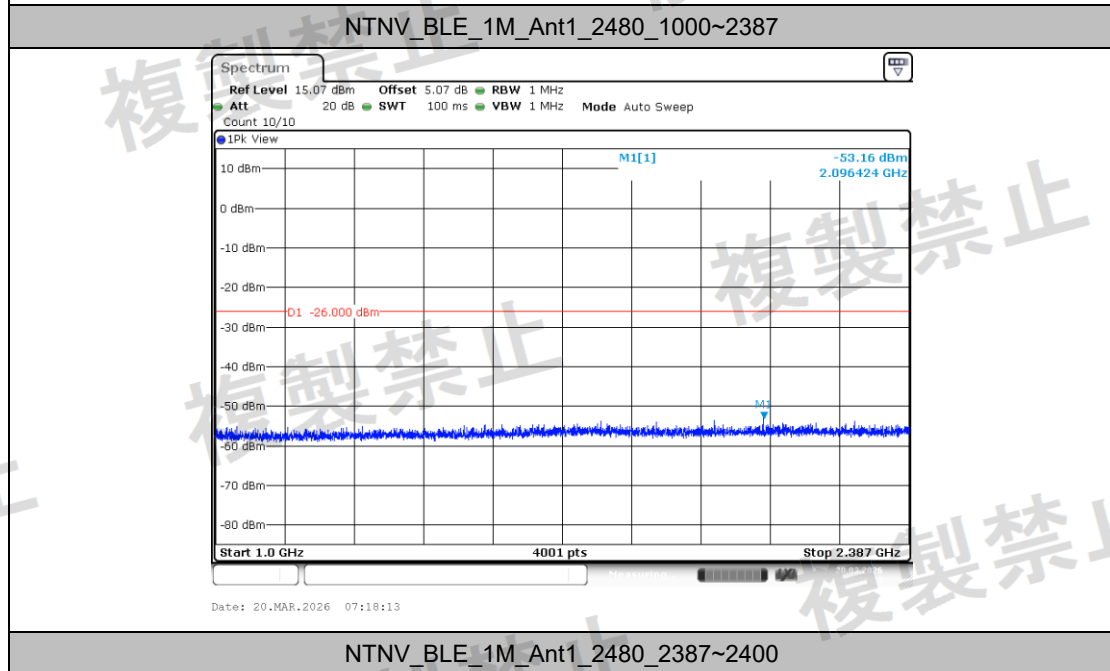
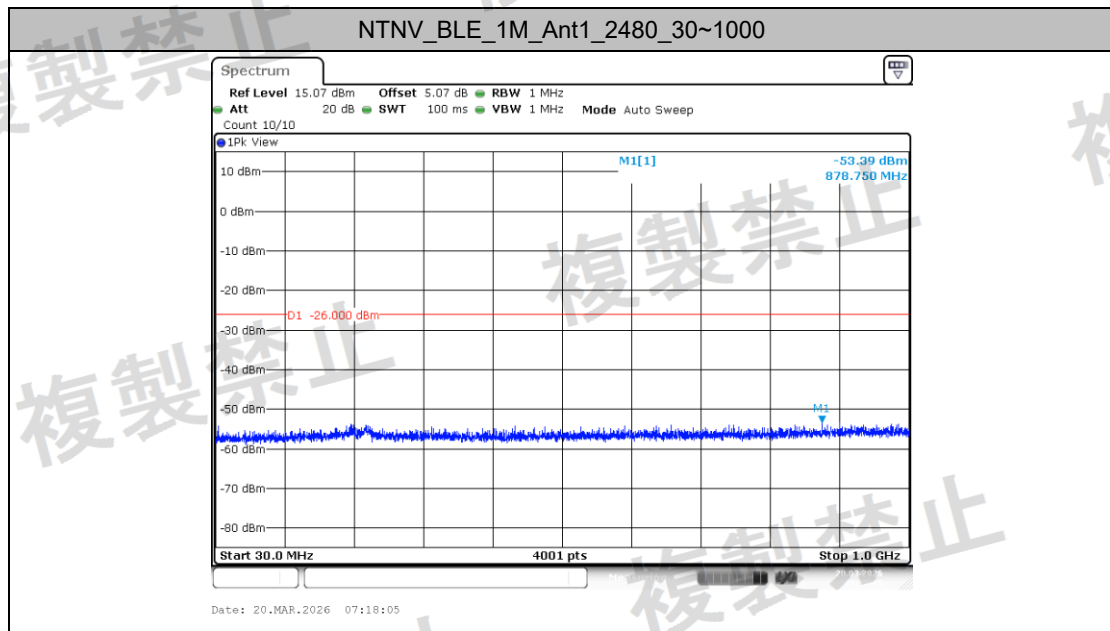


NTNV_BLE_1M_Ant1_2440_2483.5~2496.5

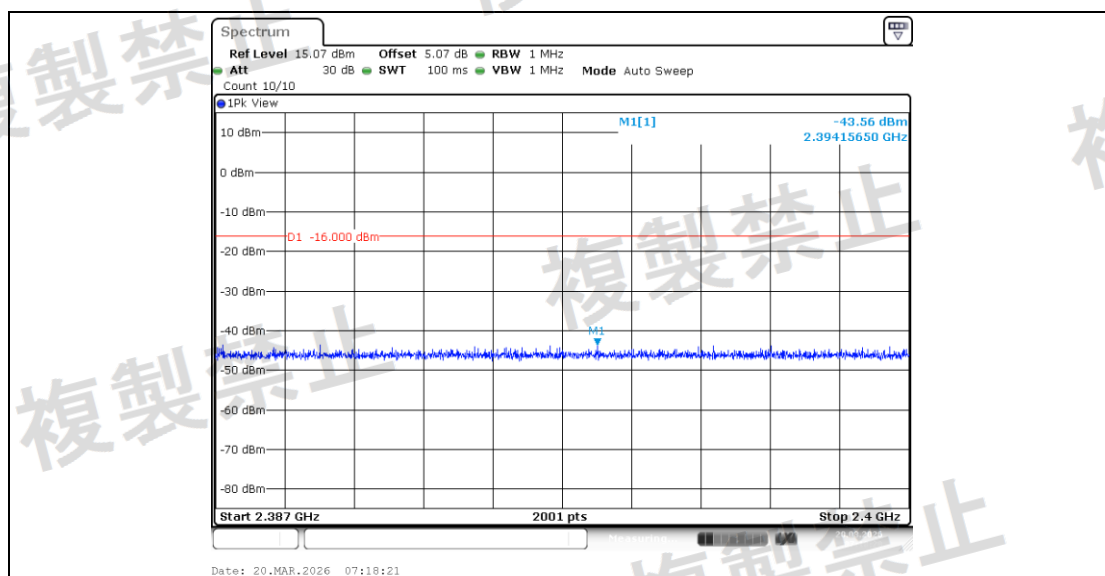


NTNV_BLE_1M_Ant1_2440_2496.5~13000

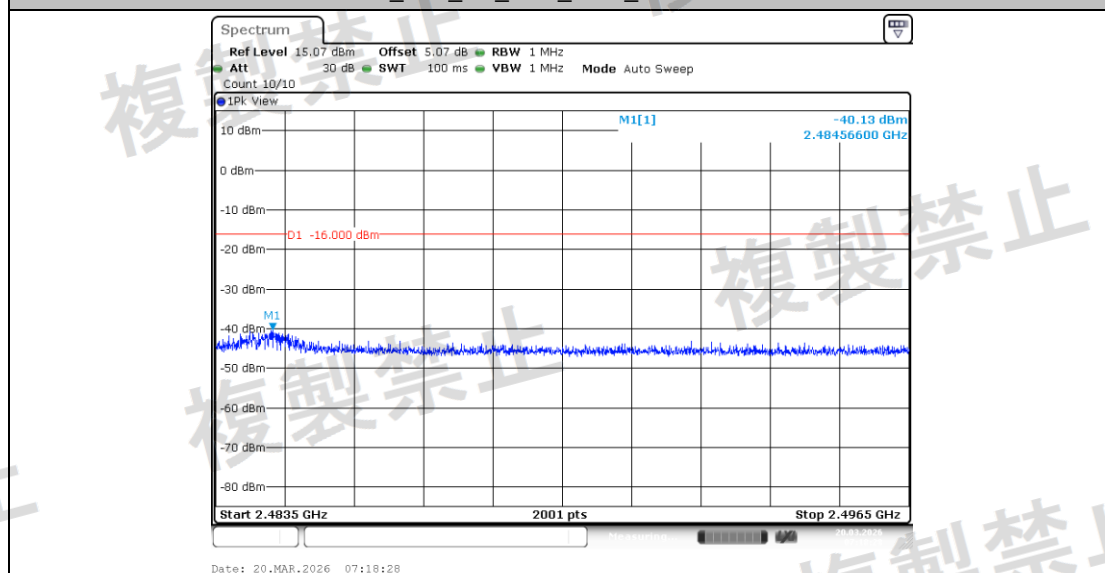




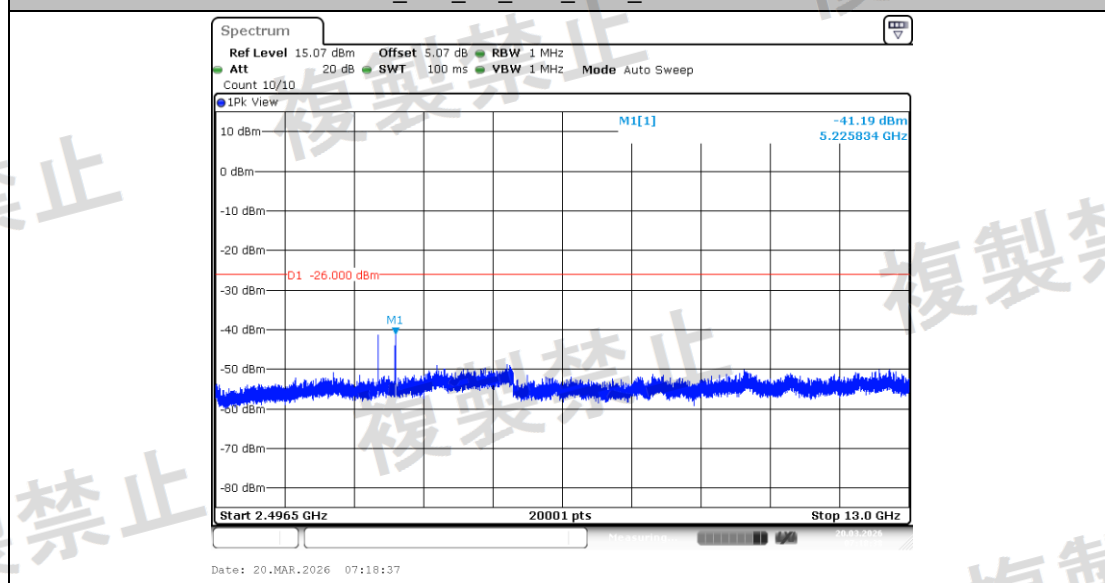
NTNV_BLE_1M_Ant1_2480_2387~2400



NTNV_BLE_1M_Ant1_2480_2483.5~2496.5



NTNV_BLE_1M_Ant1_2480_2496.5~13000



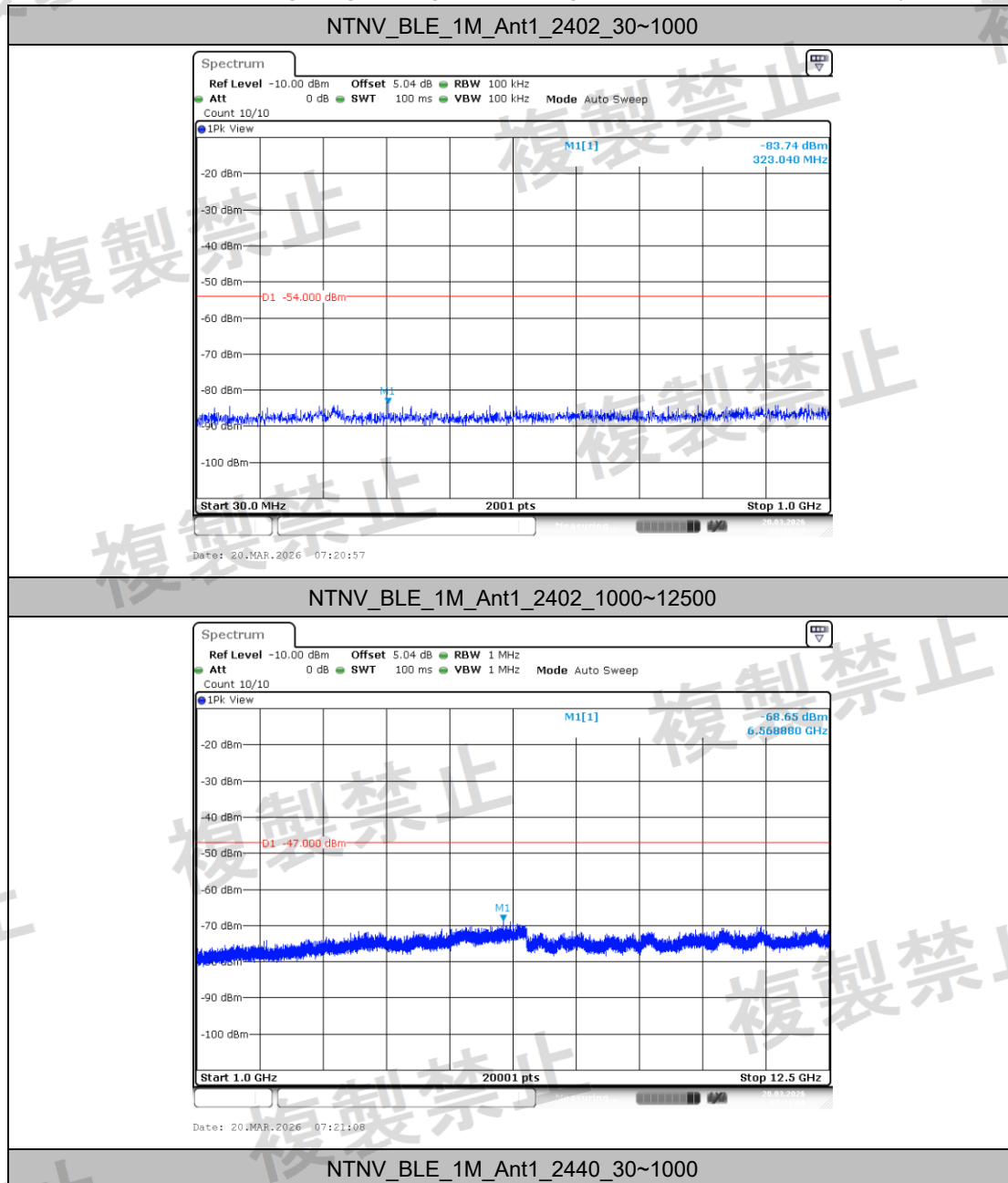
Appendix E: Spurious Emission of RX

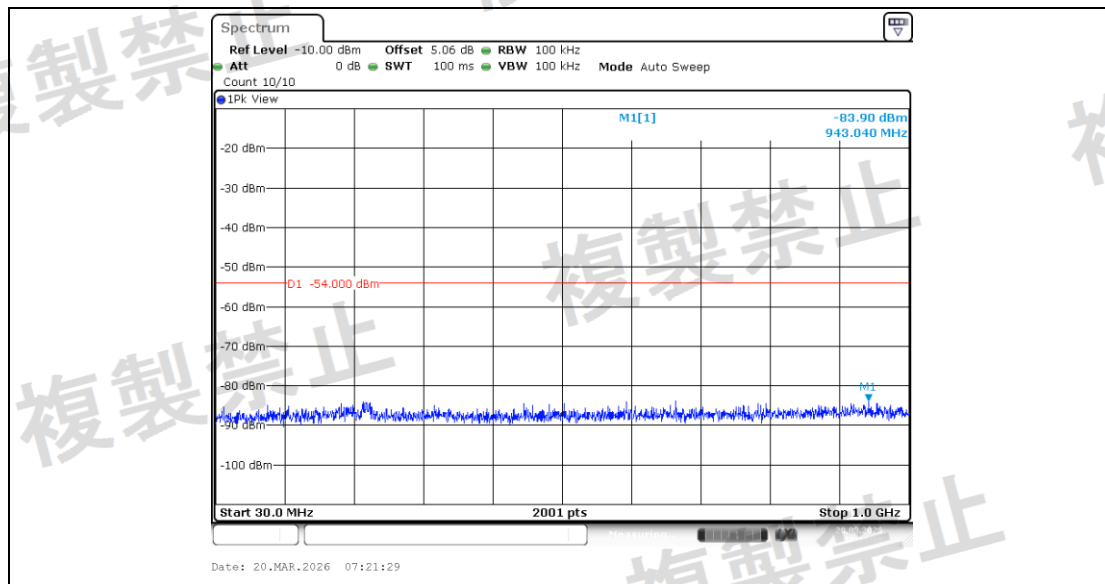
Test Result

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	323.04	-83.74	≤-54	0.00423	≤4	PASS
				1000~12500	6568.88	-68.65	≤-47	0.13646	≤20	PASS
			2440	30~1000	943.04	-83.90	≤-54	0.00407	≤4	PASS
				1000~12500	6364.77	-68.38	≤-47	0.14521	≤20	PASS
			2480	30~1000	960.01	-83.93	≤-54	0.00405	≤4	PASS
				1000~12500	10654.63	-69.38	≤-47	0.11535	≤20	PASS

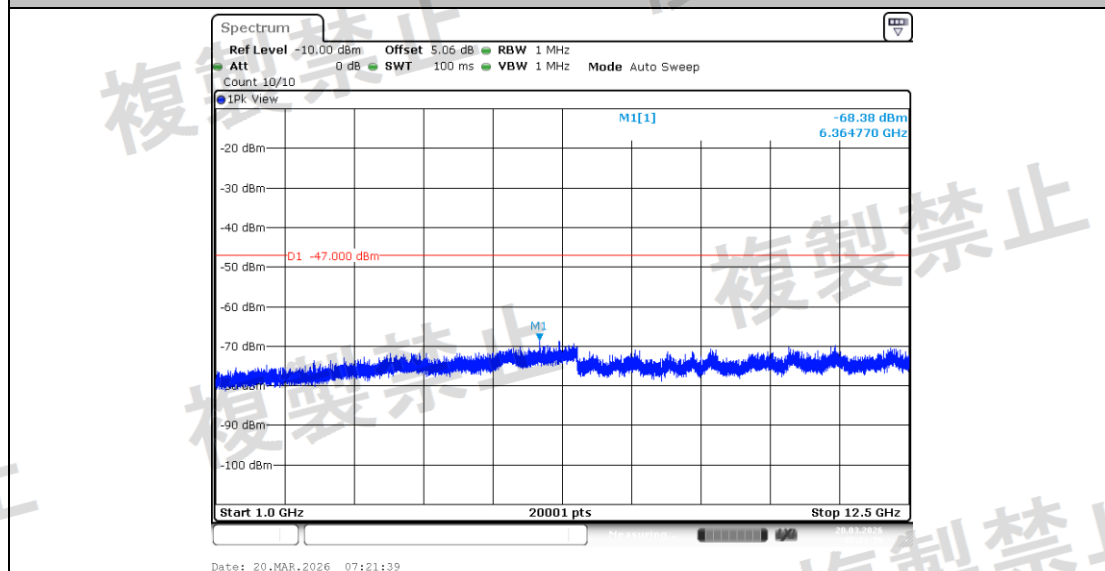
Test Graphs

Note: We test Normal Voltage, High Voltage, Low Voltage, and recorded the worst test plot.





NTNV_BLE_1M_Ant1_2440_1000~12500



NTNV_BLE_1M_Ant1_2480_30~1000

