

Appendix RF Test Data for BLE

Company : SOHIMI JAPAN, K.K.

EUT : Massager

Model Number : Myster

Report No. : CTA26031800401

Reviewed By : Eric Wang

Appendix A: Frequency Error

Test Result

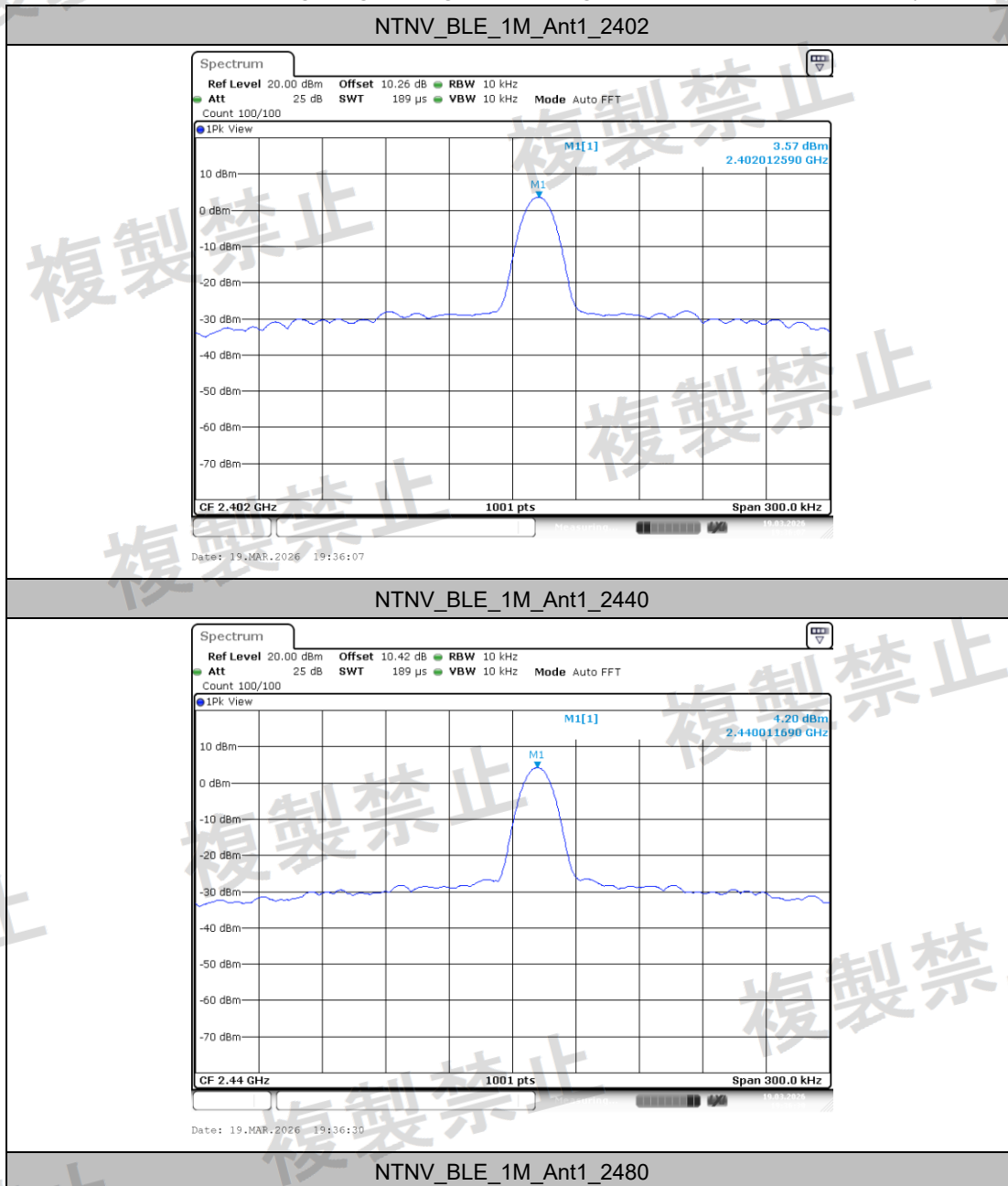
TestCondition	TestMode	Antenna	Freq(MHz)	Result[ppm]	Limit[ppm]	Verdict
NTNV	BLE_1M	Ant1	2402	5.24147	±50	PASS
			2440	4.79098	±50	PASS
			2480	4.59274	±50	PASS

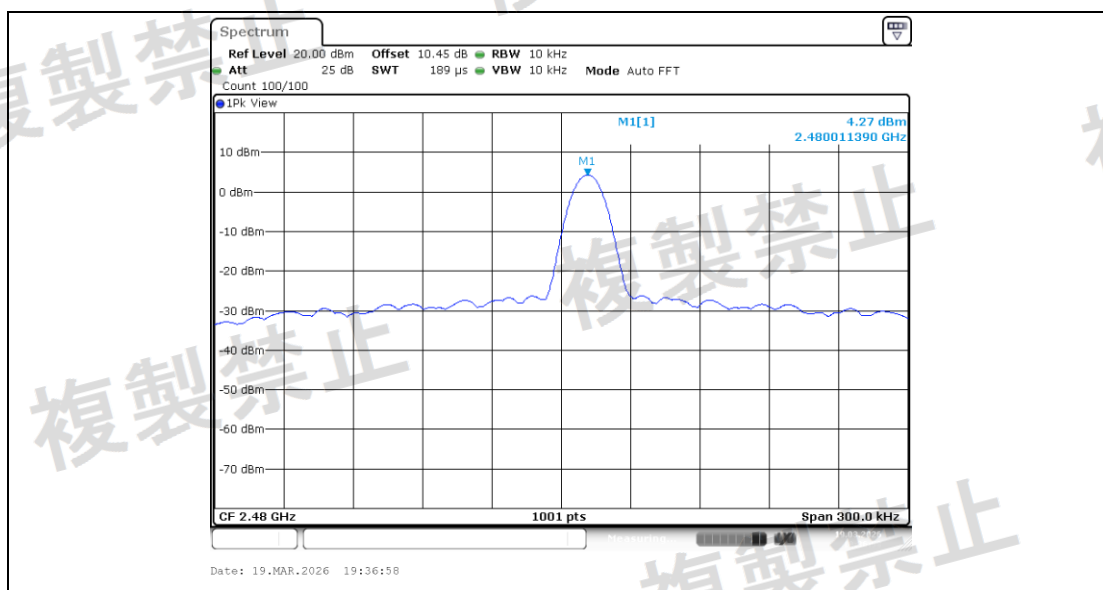
TestCondition	TestMode	Antenna	Freq(MHz)	Result[ppm]	Limit[ppm]	Verdict
NTLV	BLE_1M	Ant1	2402	5.02580	±50	PASS
			2440	4.58617	±50	PASS
			2480	4.38239	±50	PASS

TestCondition	TestMode	Antenna	Freq(MHz)	Result[ppm]	Limit[ppm]	Verdict
NTHV	BLE_1M	Ant1	2402	5.00524	±50	PASS
			2440	4.57061	±50	PASS
			2480	4.37315	±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

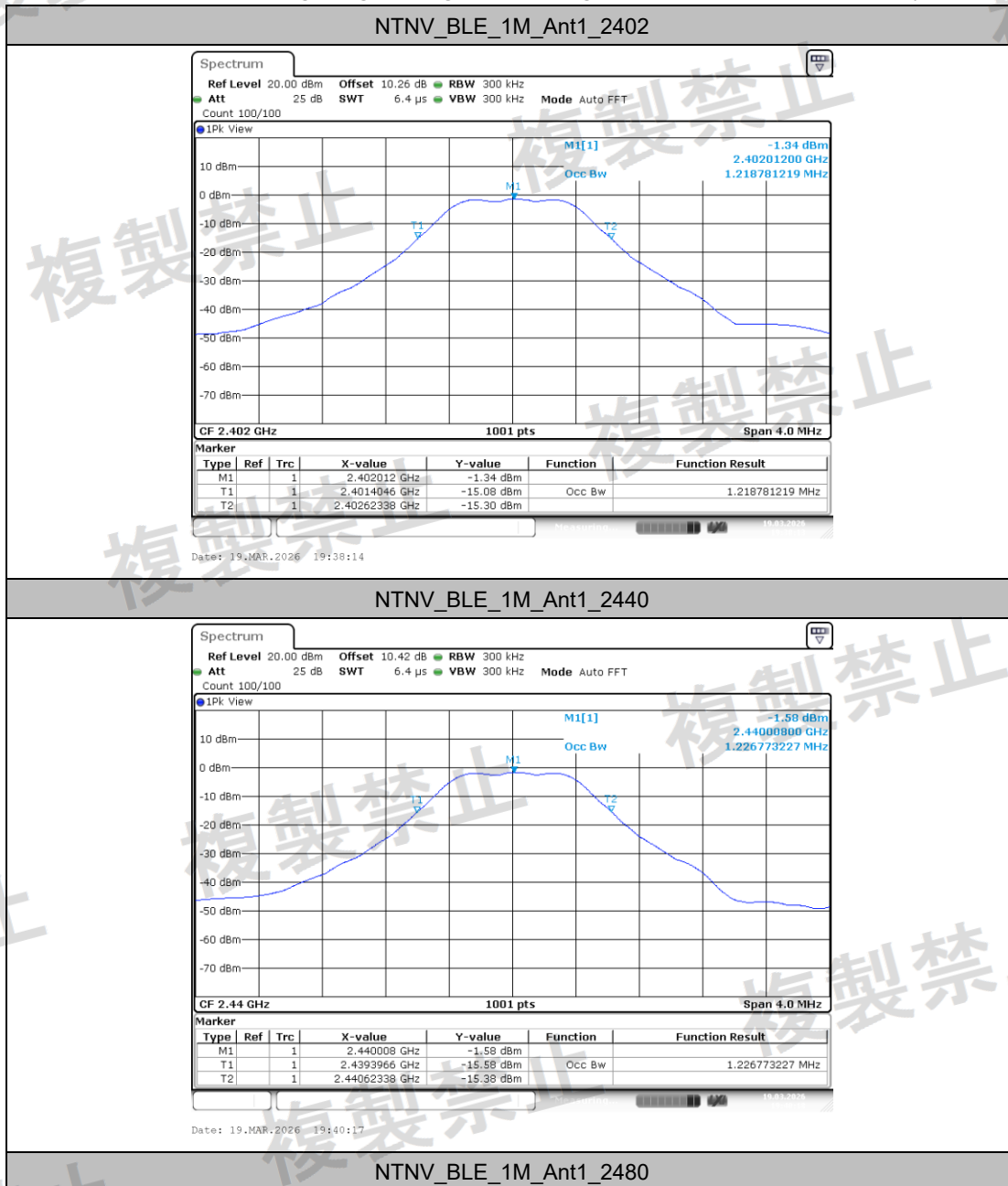
TestCondition	TestMode	Antenna	Freq(MHz)	Result [MHz]	Limit [MHz]	Verdict
NTNV	BLE_1M	Ant1	2402	1.219	≤26	PASS
			2440	1.227	≤26	PASS
			2480	1.227	≤26	PASS

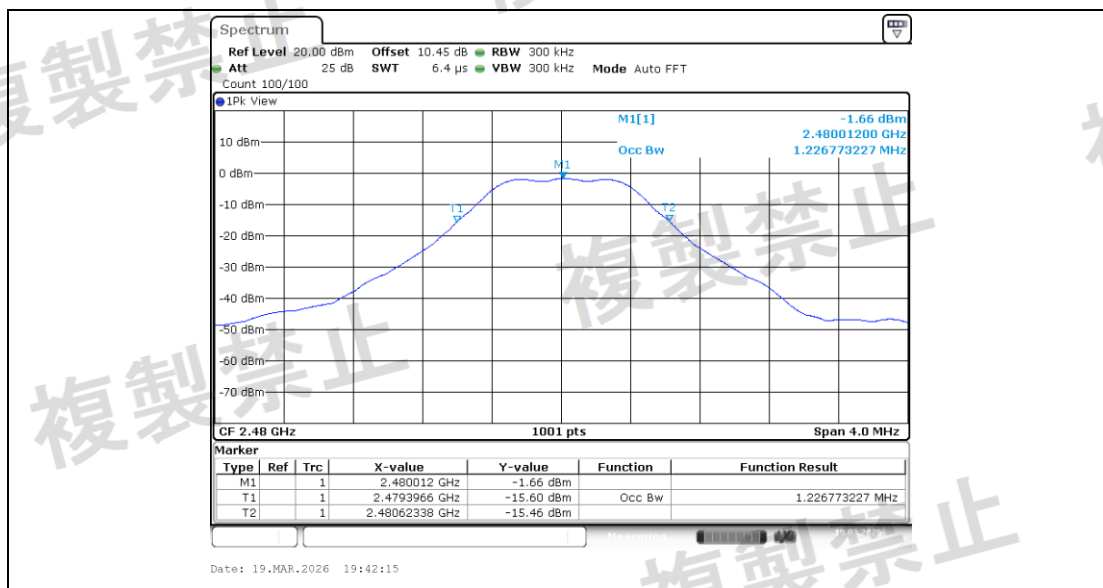
TestCondition	TestMode	Antenna	Freq(MHz)	Result [MHz]	Limit [MHz]	Verdict
NTLV	BLE_1M	Ant1	2402	1.216	≤26	PASS
			2440	1.225	≤26	PASS
			2480	1.224	≤26	PASS

TestCondition	TestMode	Antenna	Freq(MHz)	Result [MHz]	Limit [MHz]	Verdict
NTHV	BLE_1M	Ant1	2402	1.214	≤26	PASS
			2440	1.222	≤26	PASS
			2480	1.221	≤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

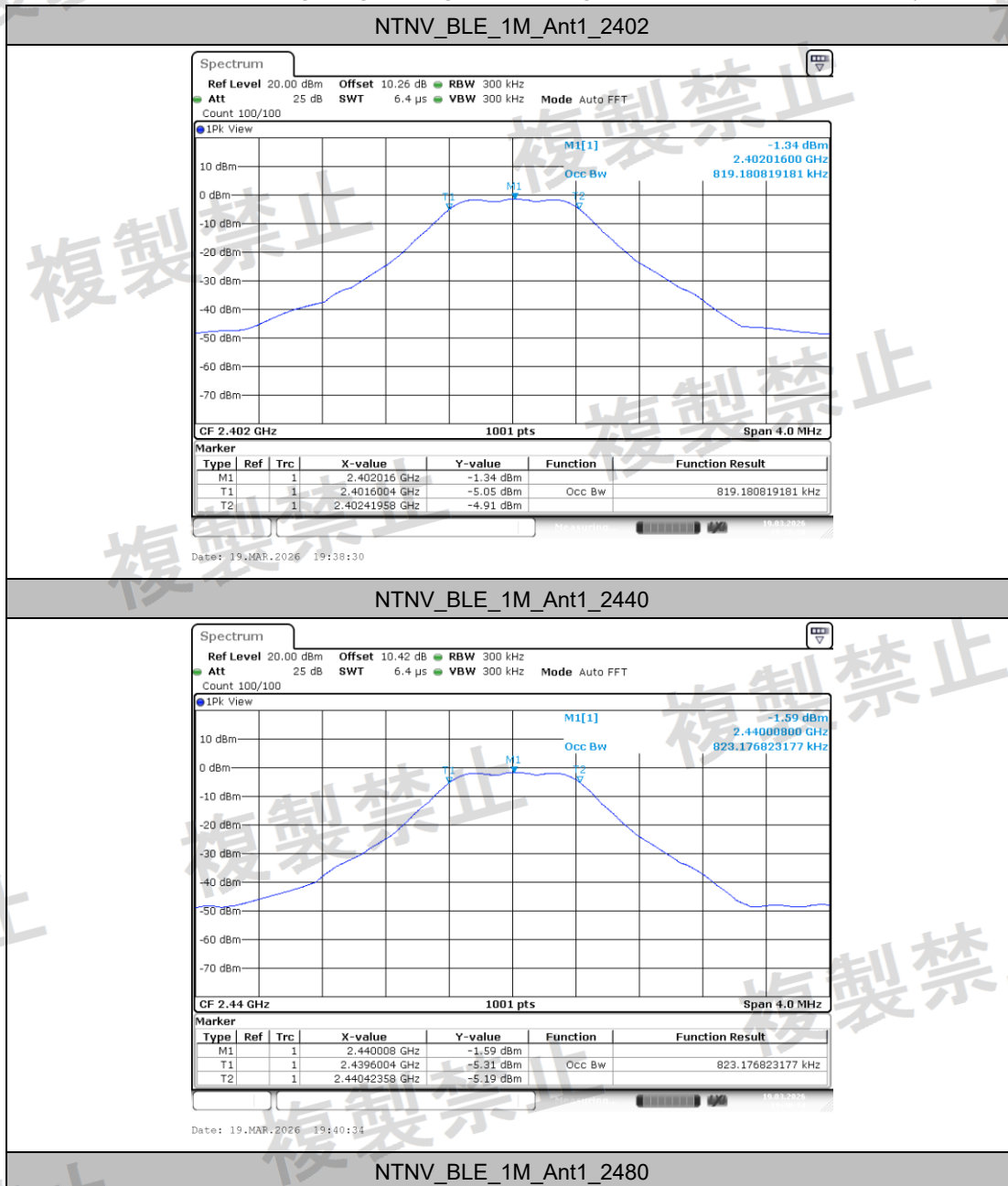
TestCondition	TestMode	Antenna	Freq(MHz)	Result [MHz]	Limit [MHz]	Verdict
NTNV	BLE_1M	Ant1	2402	0.819	≥0.5	PASS
			2440	0.823	≥0.5	PASS
			2480	0.819	≥0.5	PASS

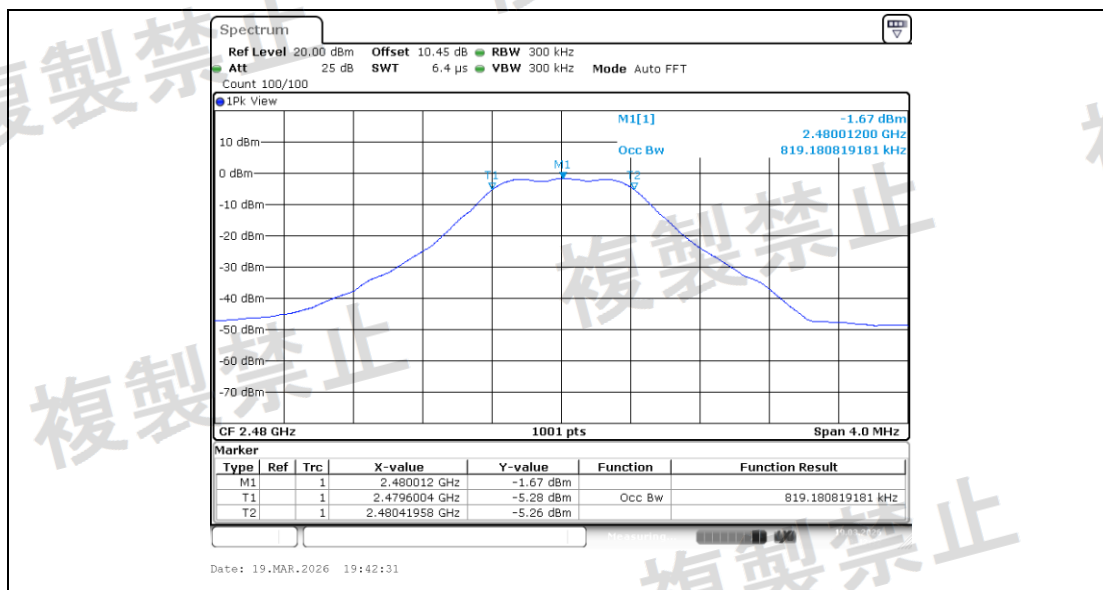
TestCondition	TestMode	Antenna	Freq(MHz)	Result [MHz]	Limit [MHz]	Verdict
NTLV	BLE_1M	Ant1	2402	0.817	≥0.5	PASS
			2440	0.820	≥0.5	PASS
			2480	0.816	≥0.5	PASS

TestCondition	TestMode	Antenna	Freq(MHz)	Result [MHz]	Limit [MHz]	Verdict
NTHV	BLE_1M	Ant1	2402	0.814	≥0.5	PASS
			2440	0.818	≥0.5	PASS
			2480	0.813	≥0.5	PASS

Test Graphs

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





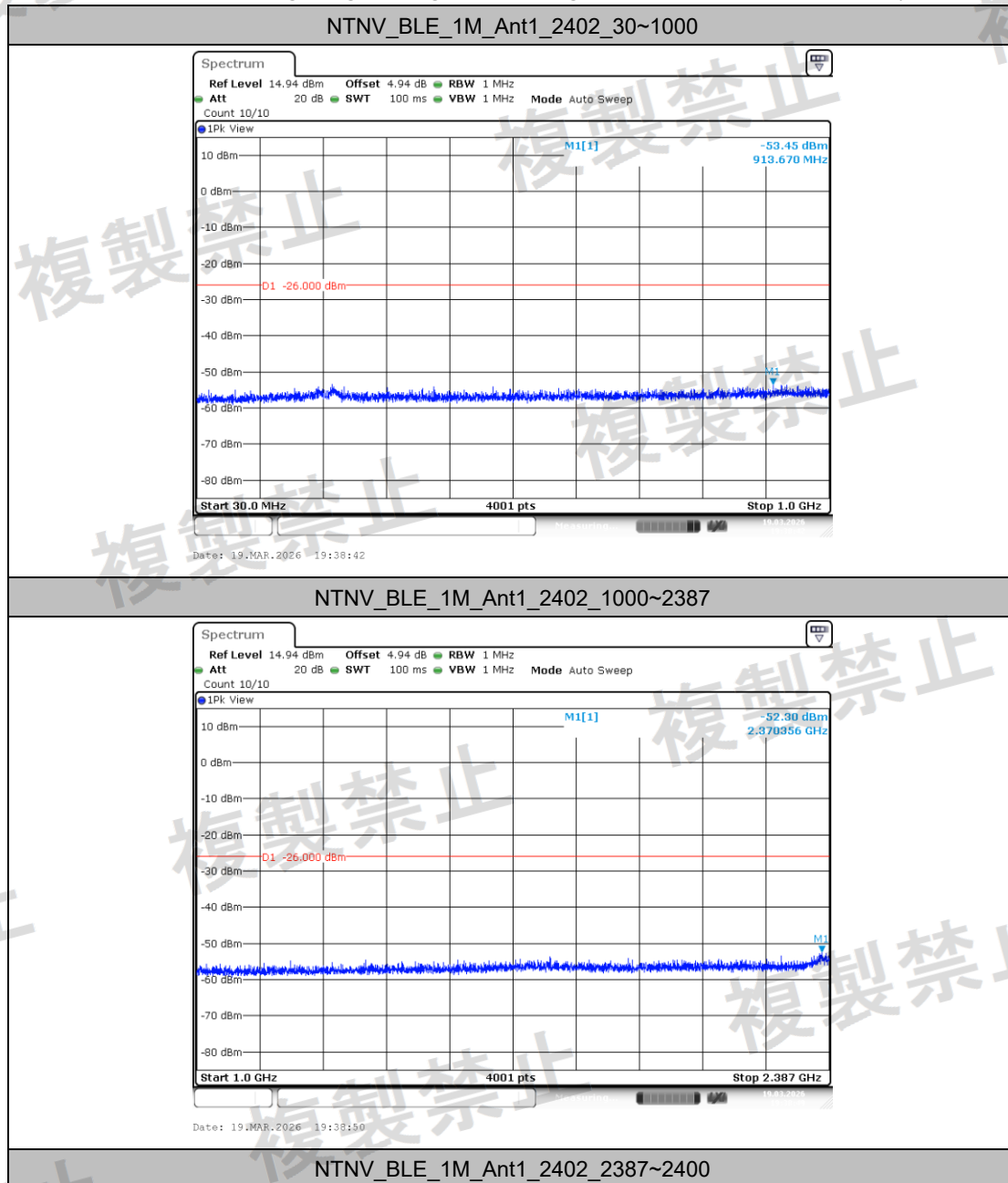
Appendix D: Spurious Emission of TX

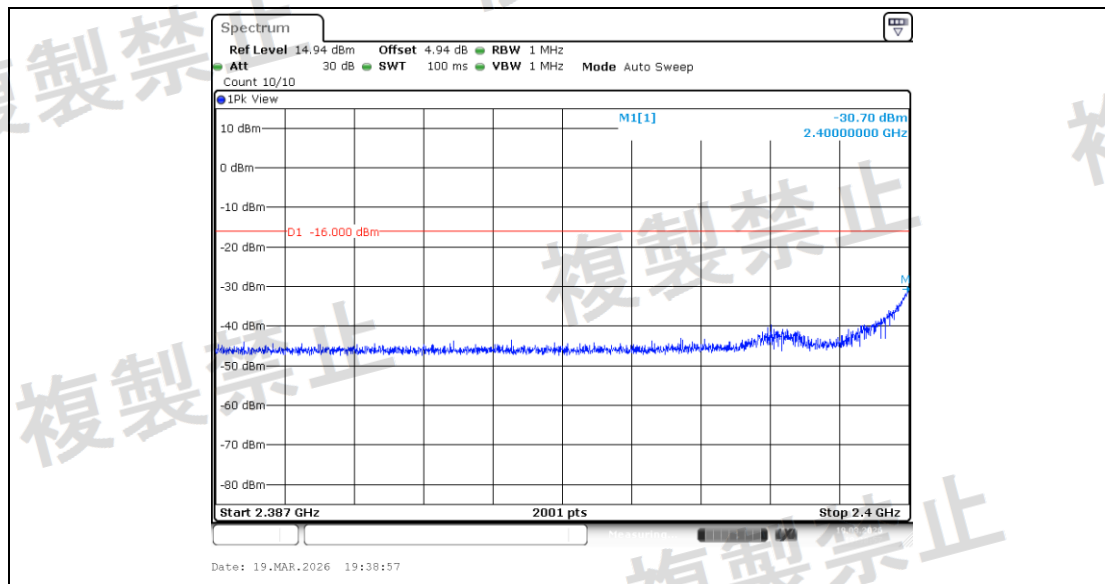
Test Result

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	913.67	-53.45	≤-26	0.00452	≤2.5	PASS
				1000~2387	2370.36	-52.30	≤-26	0.00589	≤2.5	PASS
				2387~2400	2400.00	-30.70	≤-16	0.85114	≤25	PASS
				2483.5~2496.5	2493.95	-43.46	≤-16	0.04508	≤25	PASS
				2496.5~13000	4804.12	-44.94	≤-26	0.03206	≤2.5	PASS
			2440	30~1000	216.73	-53.38	≤-26	0.00459	≤2.5	PASS
				1000~2387	2006.27	-53.13	≤-26	0.00486	≤2.5	PASS
				2387~2400	2397.09	-42.98	≤-16	0.05035	≤25	PASS
				2483.5~2496.5	2488.34	-43.14	≤-16	0.04853	≤25	PASS
				2496.5~13000	4880.27	-43.89	≤-26	0.04083	≤2.5	PASS
			2480	30~1000	222.06	-53.37	≤-26	0.00460	≤2.5	PASS
				1000~2387	2378.33	-53.18	≤-26	0.00481	≤2.5	PASS
				2387~2400	2390.14	-43.40	≤-16	0.04571	≤25	PASS
				2483.5~2496.5	2484.23	-40.39	≤-16	0.09141	≤25	PASS
				2496.5~13000	4960.62	-43.28	≤-26	0.04699	≤2.5	PASS

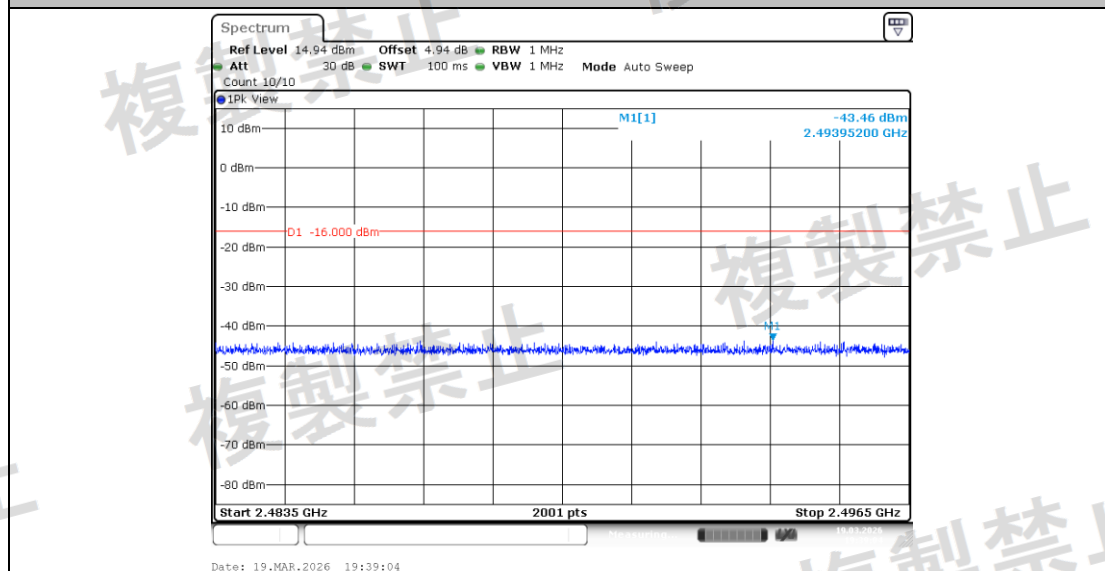
Test Graphs

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

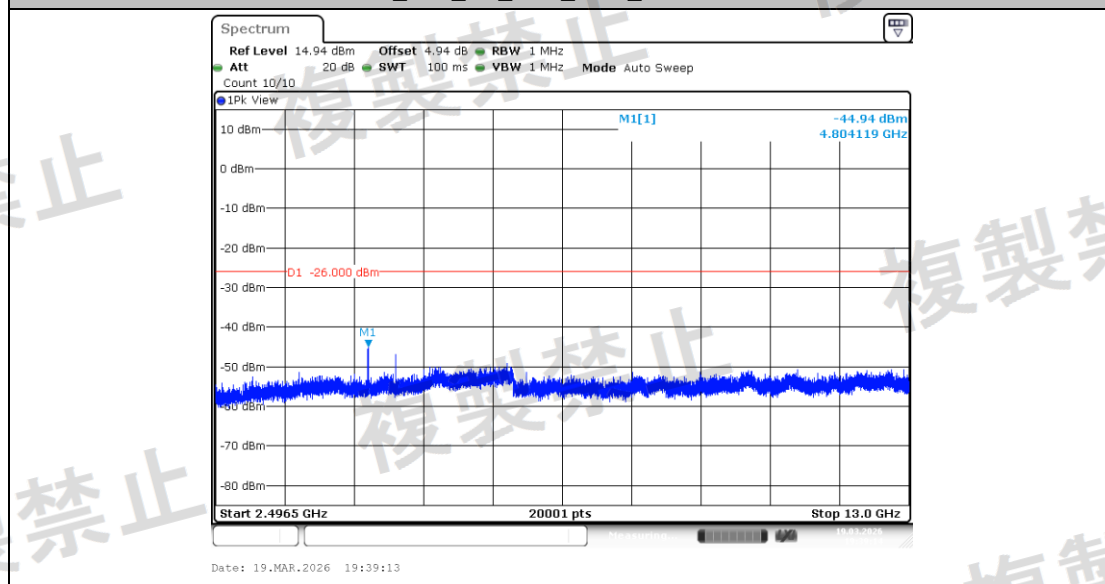


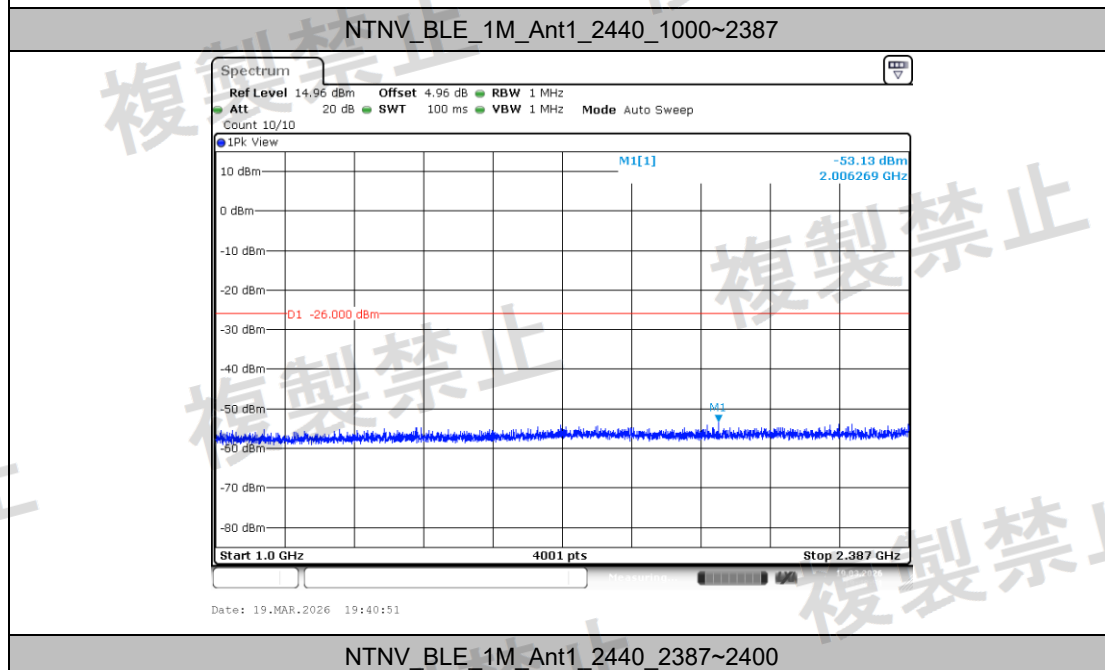
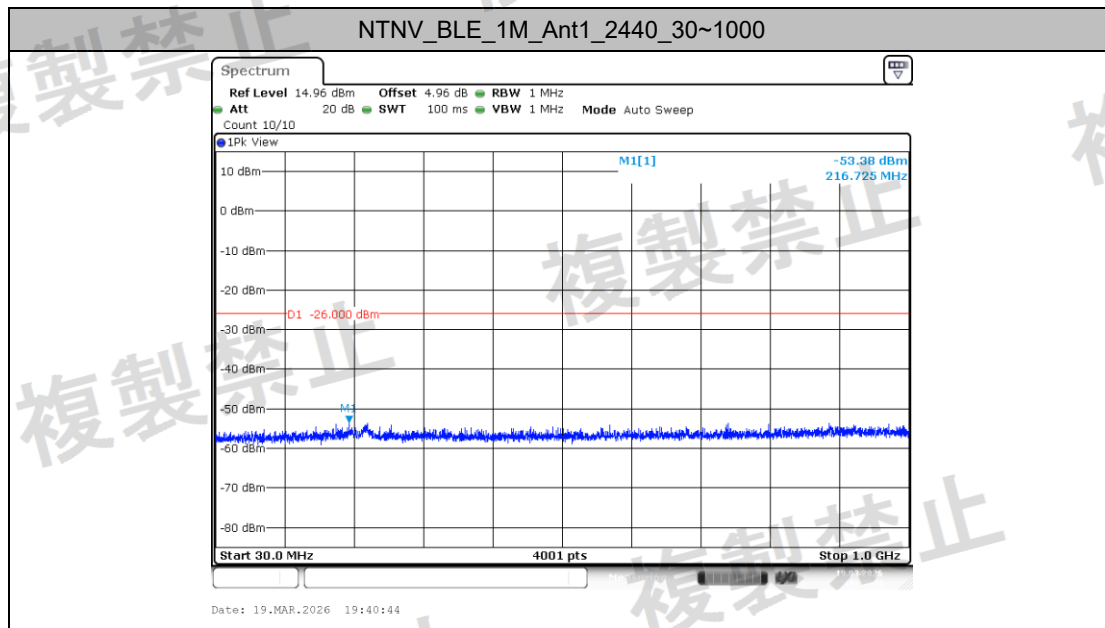


NTNV_BLE_1M_Ant1_2402_2483.5~2496.5

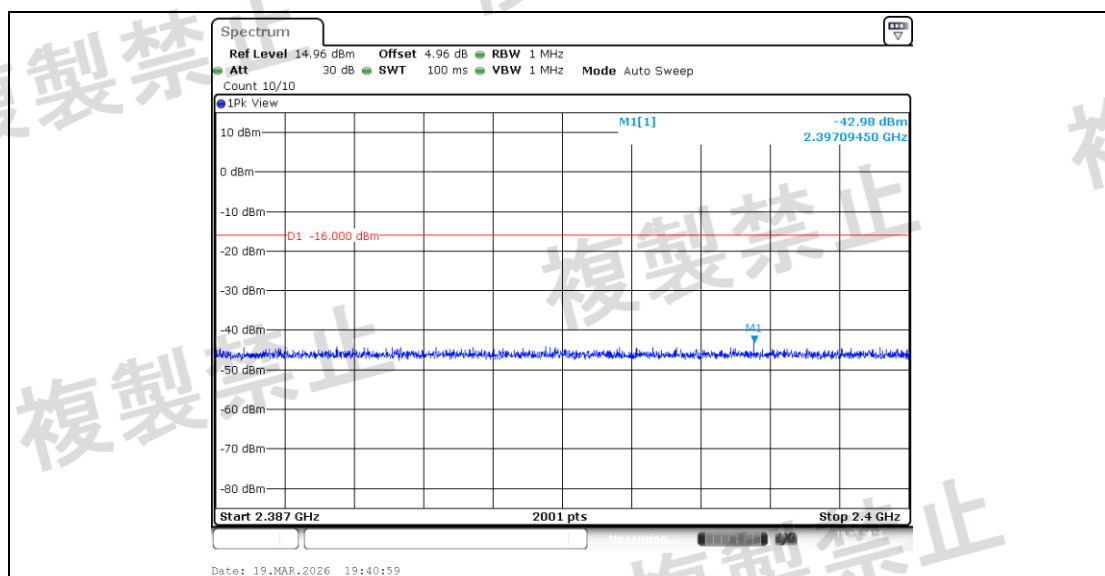


NTNV_BLE_1M_Ant1_2402_2496.5~13000

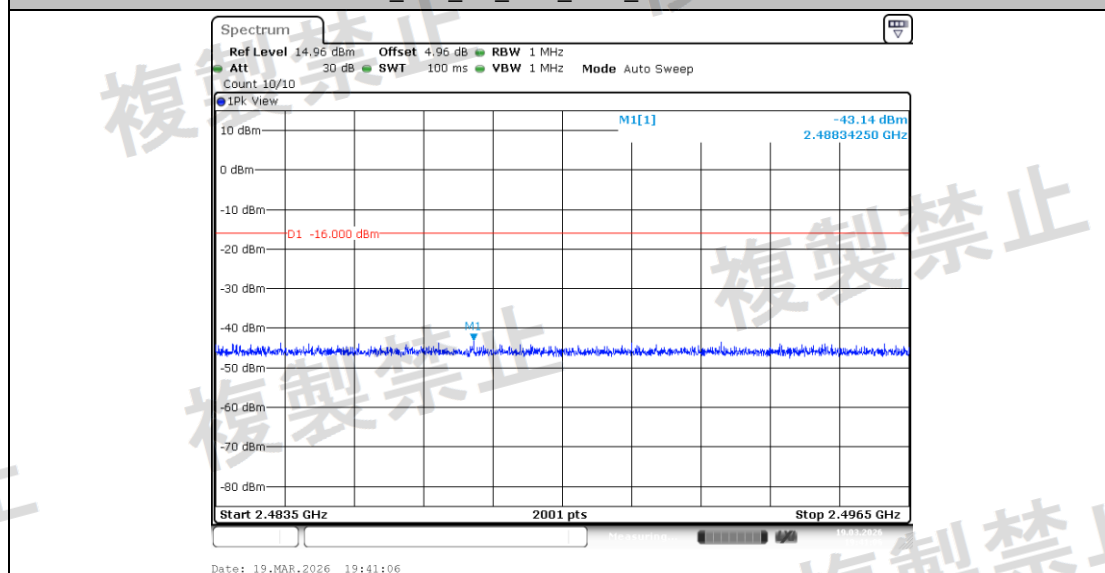




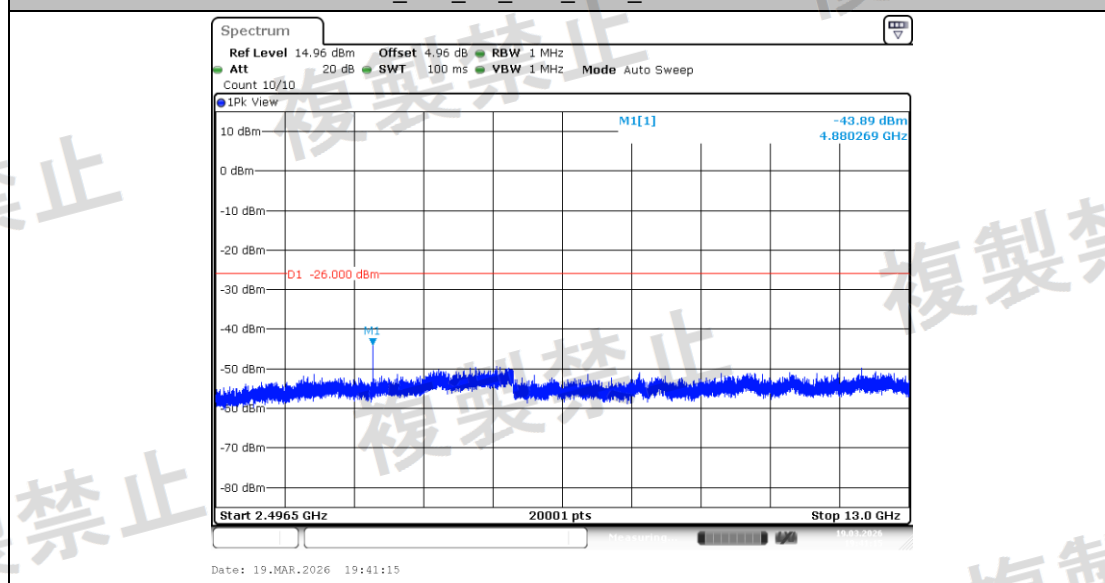
NTNV_BLE_1M_Ant1_2440_2387~2400

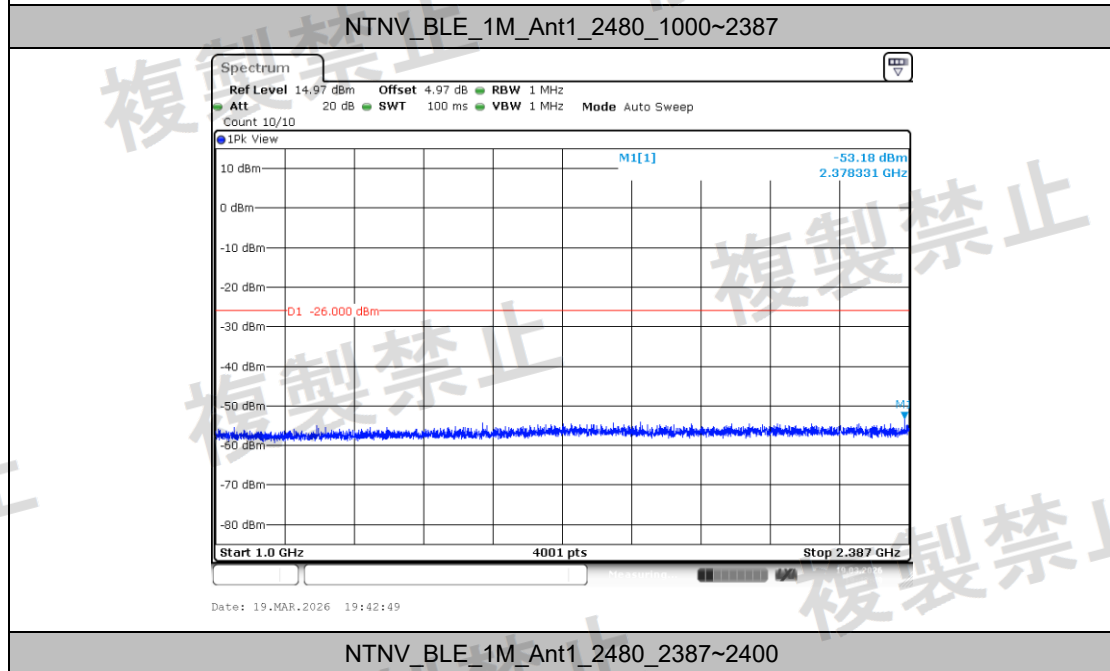
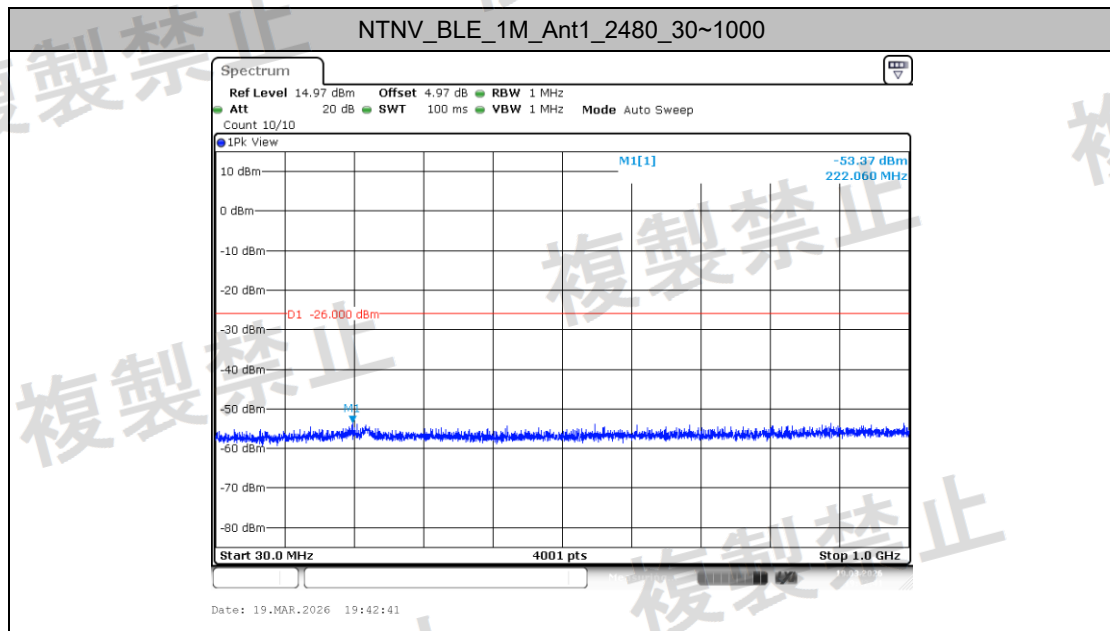


NTNV_BLE_1M_Ant1_2440_2483.5~2496.5

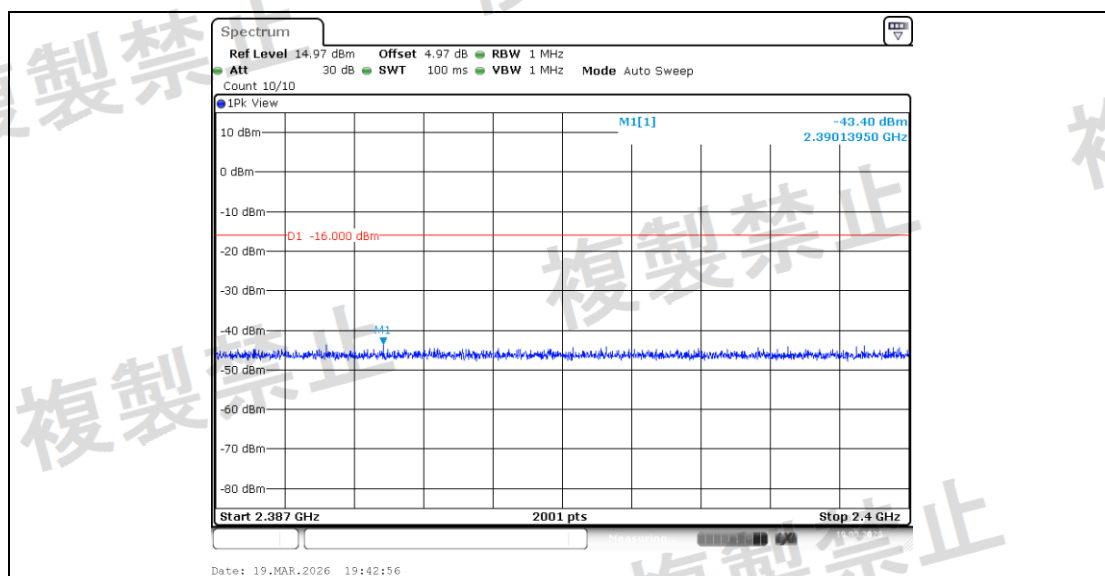


NTNV_BLE_1M_Ant1_2440_2496.5~13000

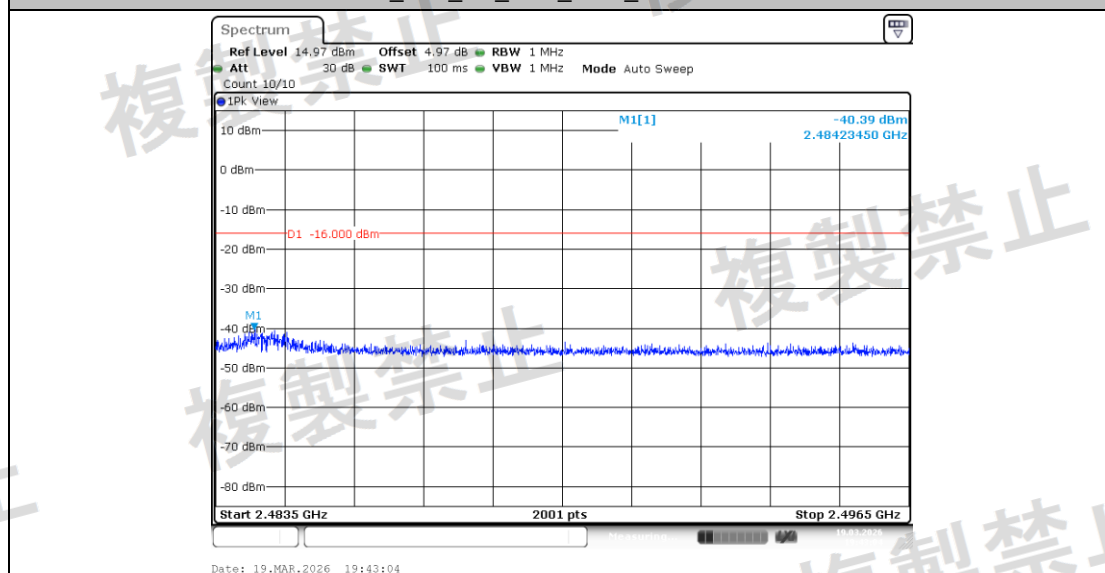




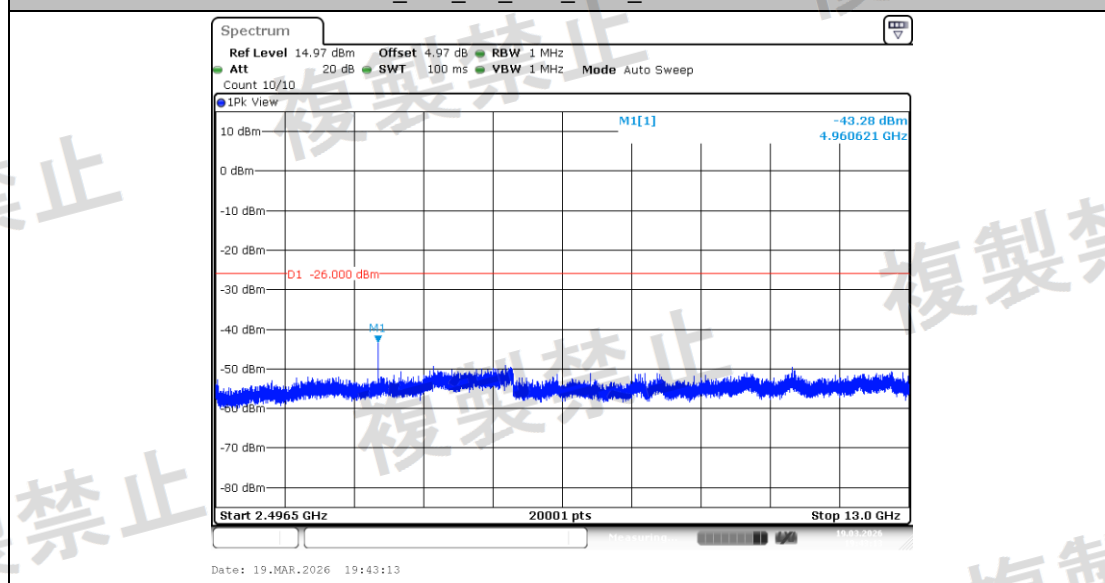
NTNV_BLE_1M_Ant1_2480_2387~2400



NTNV_BLE_1M_Ant1_2480_2483.5~2496.5



NTNV_BLE_1M_Ant1_2480_2496.5~13000



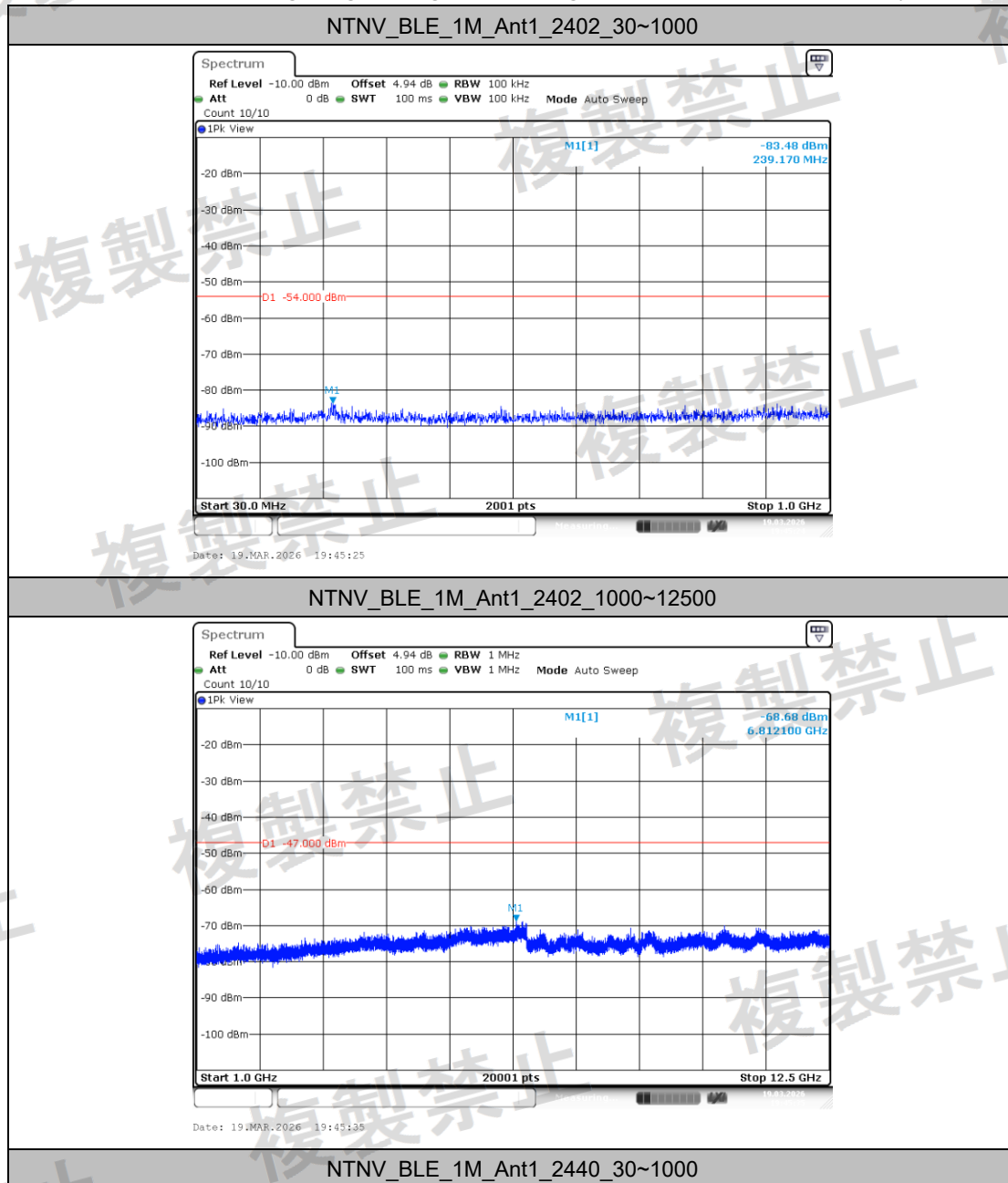
Appendix E: Spurious Emission of RX

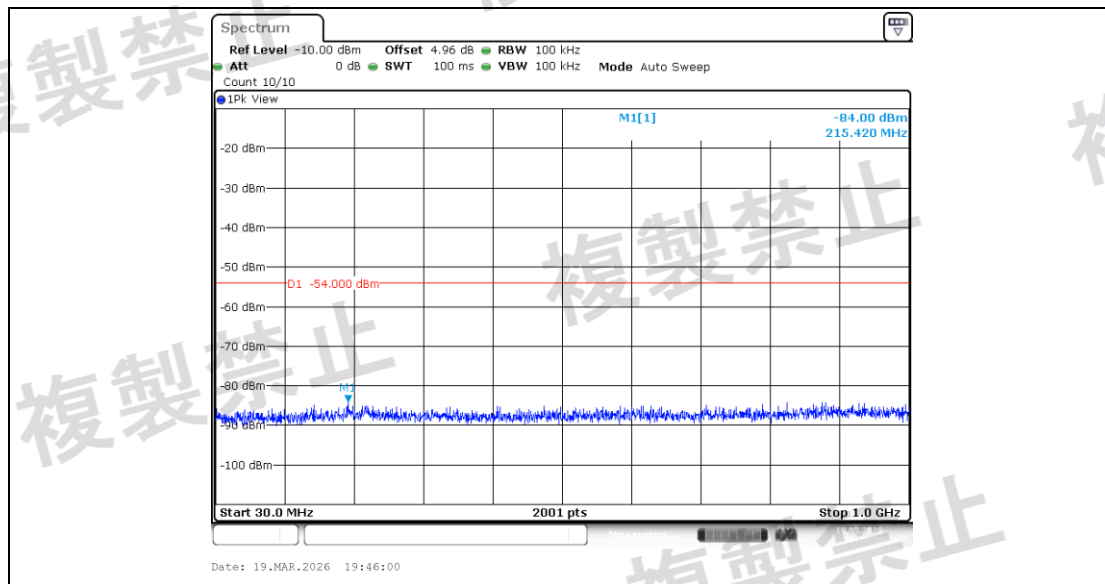
Test Result

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	239.17	-83.48	≤-54	0.00449	≤4	PASS
				1000~12500	6812.10	-68.68	≤-47	0.13552	≤20	PASS
			2440	30~1000	215.42	-84.00	≤-54	0.00398	≤4	PASS
				1000~12500	6999.54	-68.73	≤-47	0.13397	≤20	PASS
			2480	30~1000	244.99	-84.04	≤-54	0.00394	≤4	PASS
				1000~12500	6693.65	-69.27	≤-47	0.11830	≤20	PASS

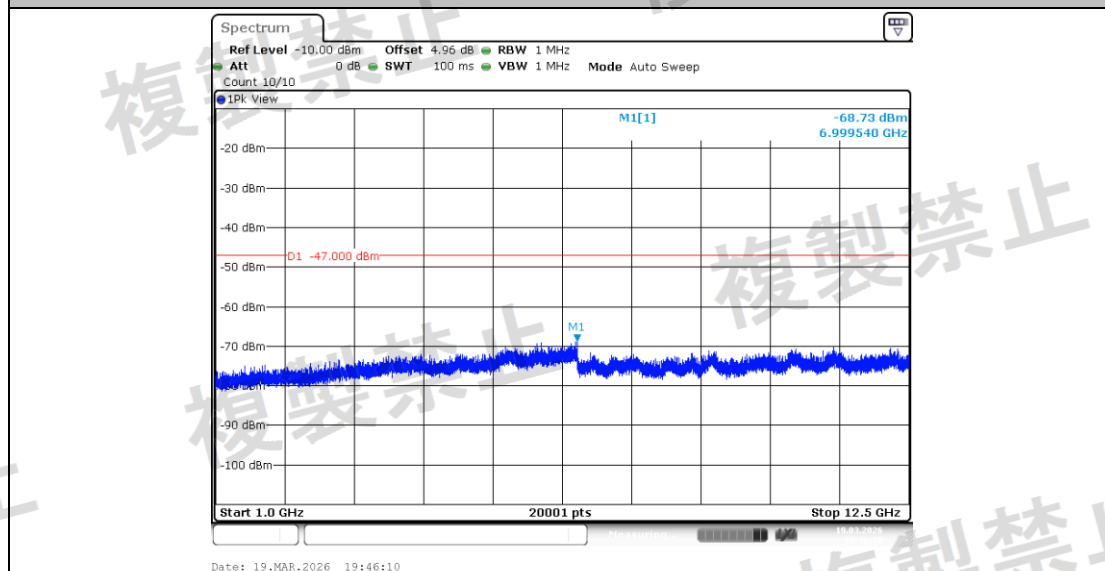
Test Graphs

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

