

Appendix RF Test Data for 2.4G

Company : HISONG Music Technology Inc.

EUT : HISONG AirStudio S1

Model Number : HS-AS1

Report No. : CTA26031700101

Reviewed By : Eric Wang

Appendix A: Frequency Error

Test Result

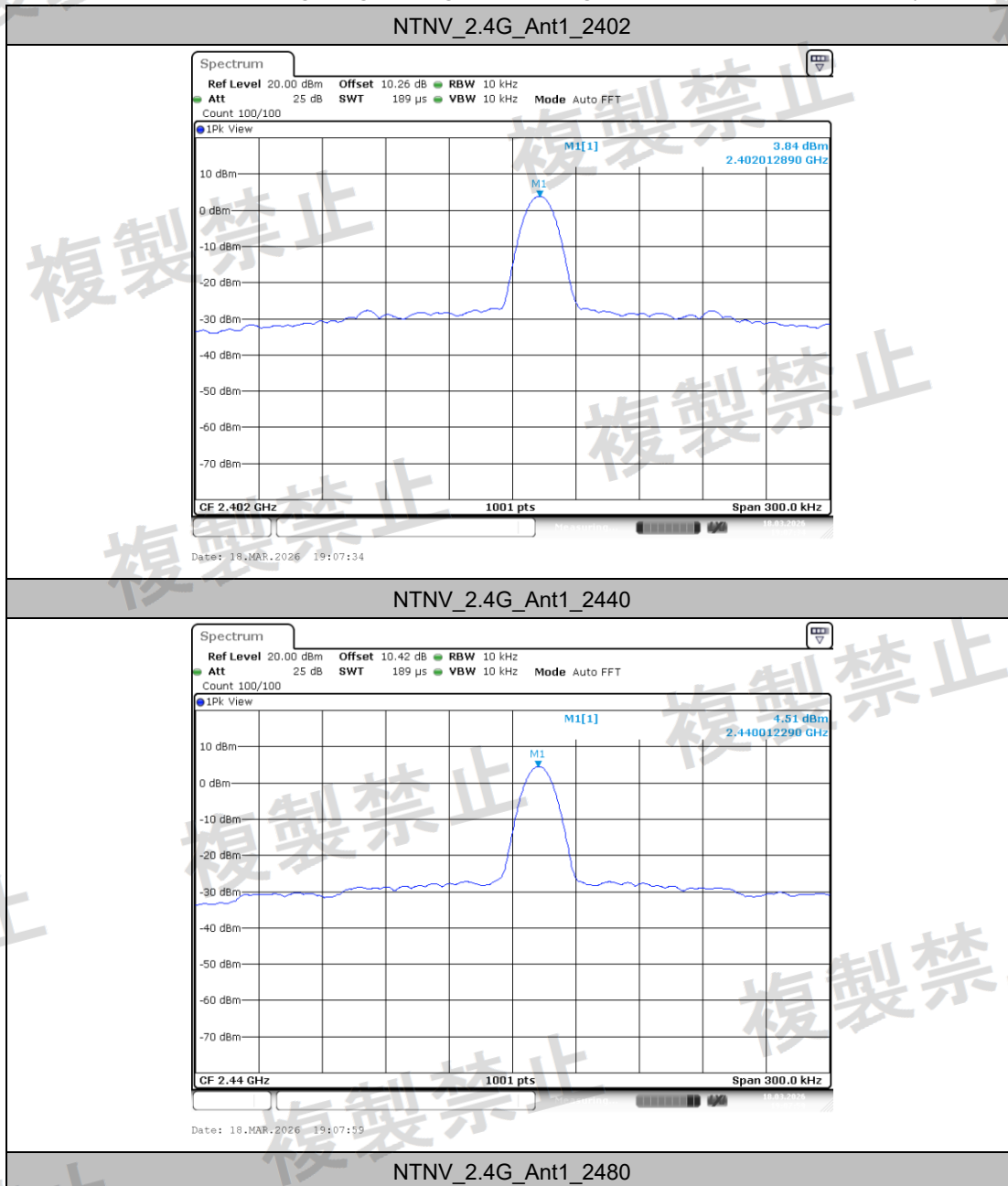
TestCondition	TestMode	Antenna	Freq(MHz)	Result[ppm]	Limit[ppm]	Verdict
NTNV	2.4G	Ant1	2402	5.36636	±50	PASS
			2440	5.03689	±50	PASS
			2480	4.95565	±50	PASS

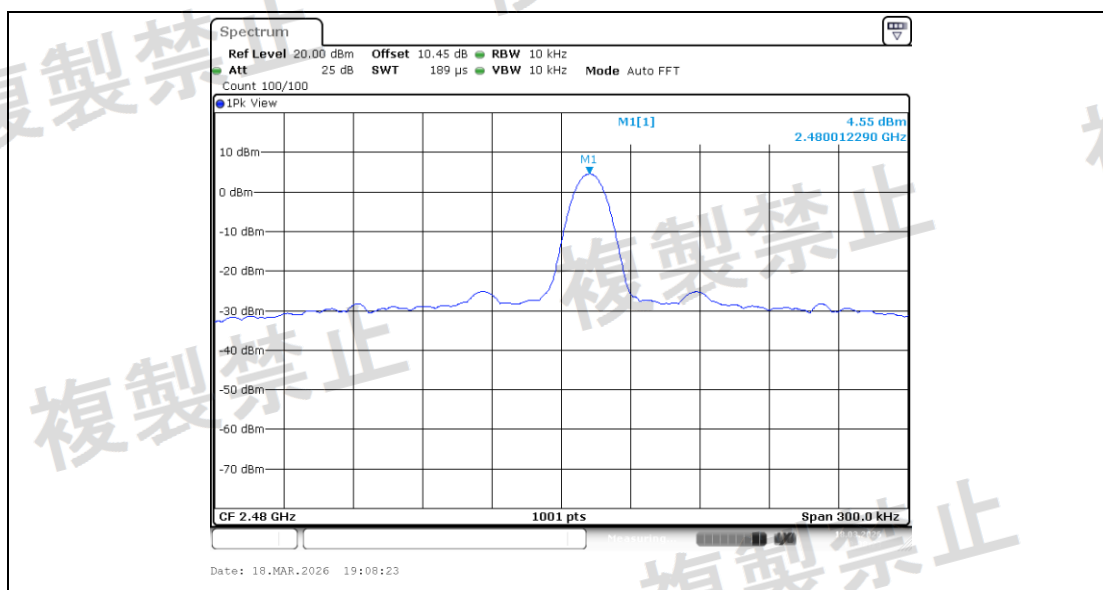
TestCondition	TestMode	Antenna	Freq(MHz)	Result[ppm]	Limit[ppm]	Verdict
NTLV	2.4G	Ant1	2402	5.18507	±50	PASS
			2440	4.79409	±50	PASS
			2480	4.79131	±50	PASS

TestCondition	TestMode	Antenna	Freq(MHz)	Result[ppm]	Limit[ppm]	Verdict
NTHV	2.4G	Ant1	2402	5.16499	±50	PASS
			2440	4.79854	±50	PASS
			2480	4.78642	±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

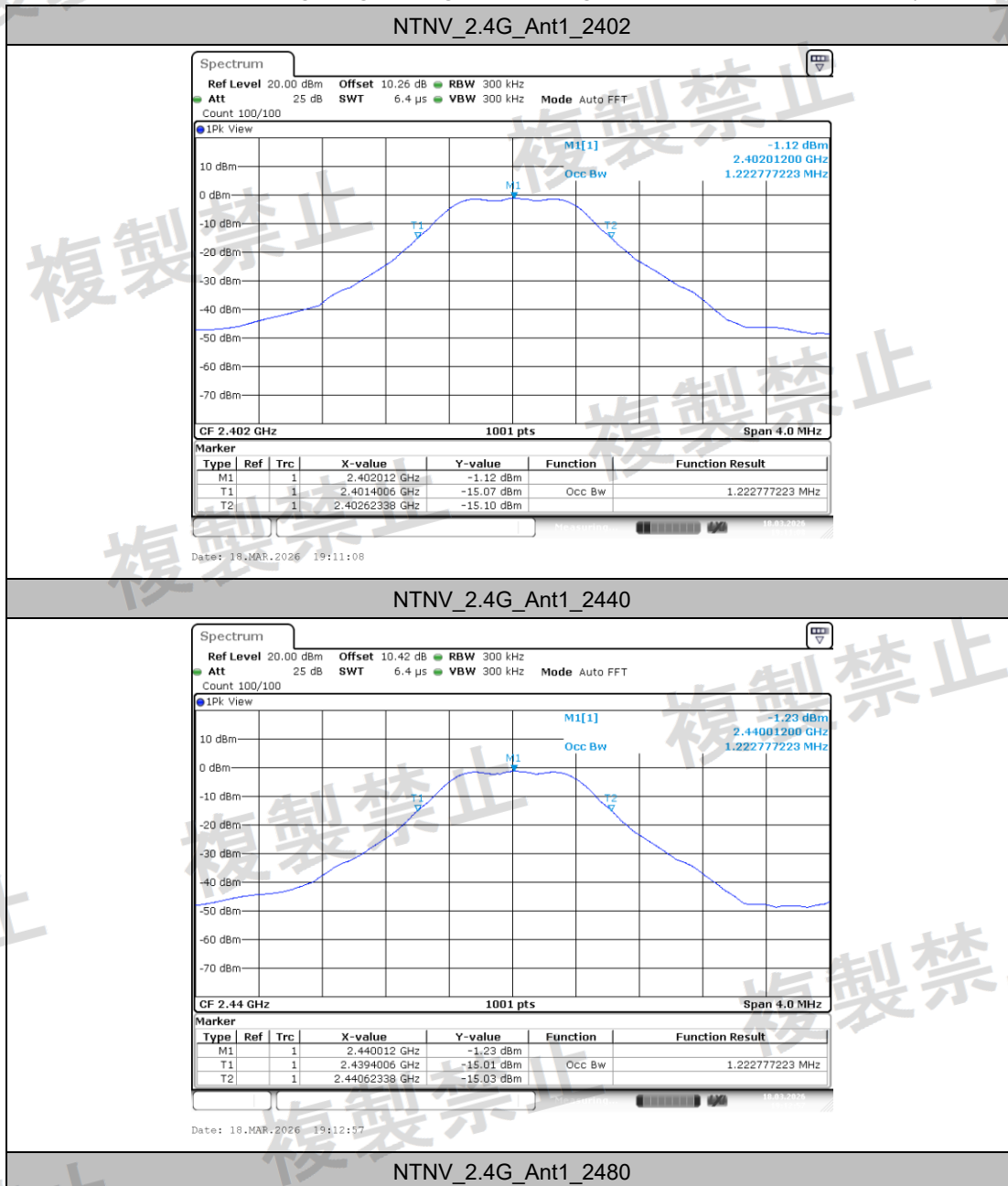
TestCondition	TestMode	Antenna	Freq(MHz)	Result [MHz]	Limit [MHz]	Verdict
NTNV	2.4G	Ant1	2402	1.223	≤26	PASS
			2440	1.223	≤26	PASS
			2480	1.227	≤26	PASS

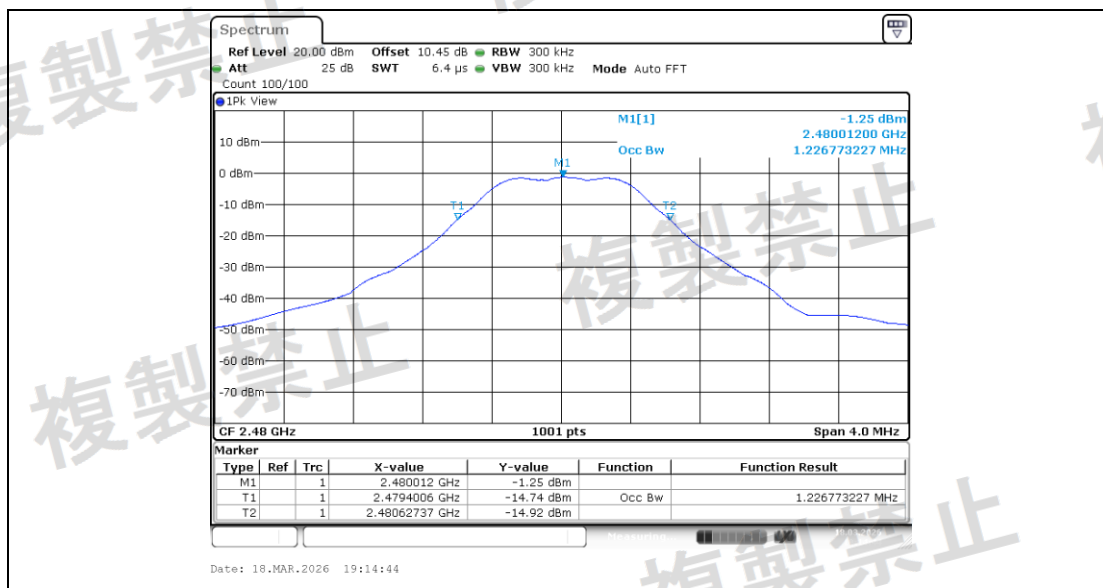
TestCondition	TestMode	Antenna	Freq(MHz)	Result [MHz]	Limit [MHz]	Verdict
NTLV	2.4G	Ant1	2402	1.221	≤26	PASS
			2440	1.222	≤26	PASS
			2480	1.226	≤26	PASS

TestCondition	TestMode	Antenna	Freq(MHz)	Result [MHz]	Limit [MHz]	Verdict
NTHV	2.4G	Ant1	2402	1.220	≤26	PASS
			2440	1.220	≤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

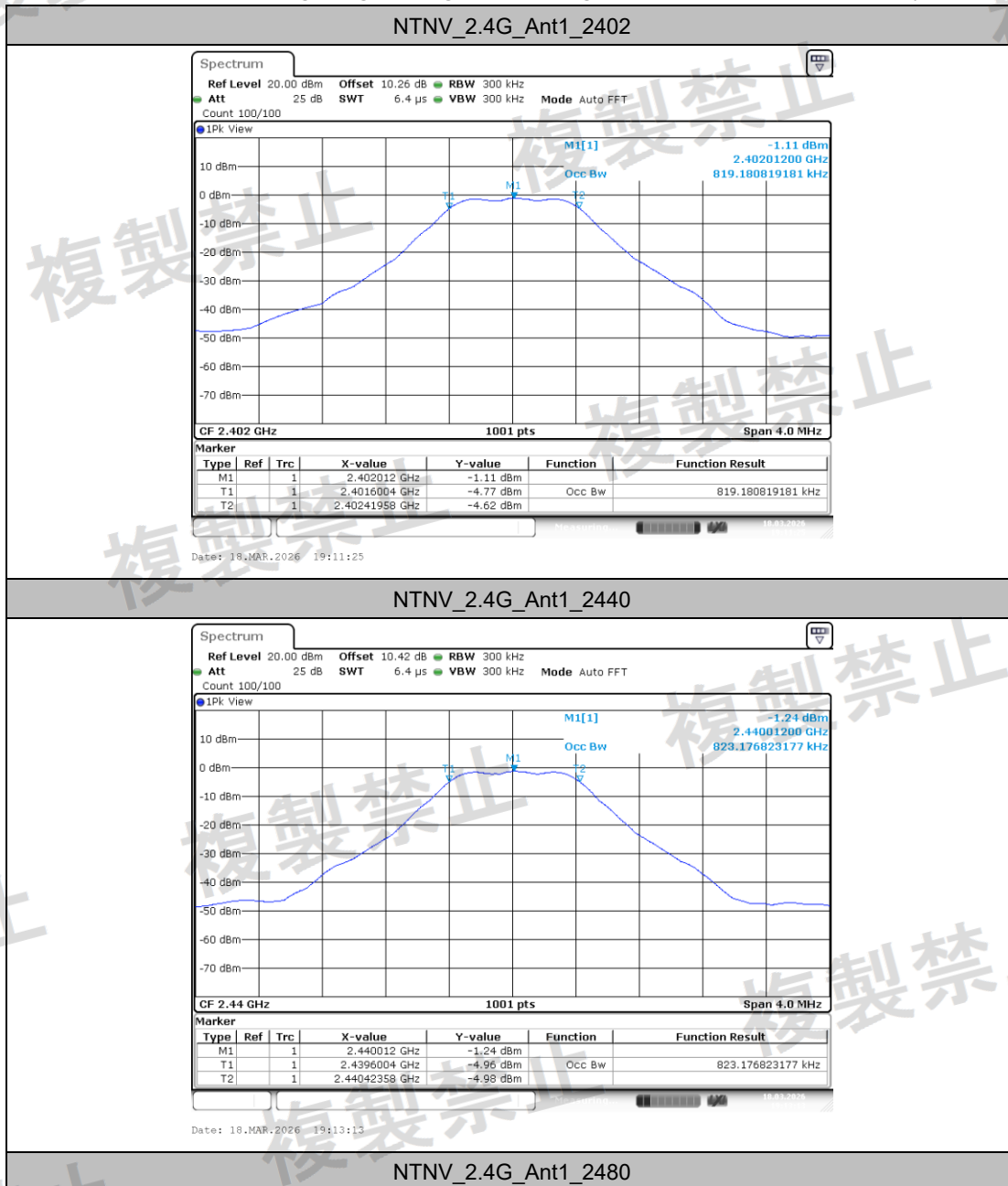
TestCondition	TestMode	Antenna	Freq(MHz)	Result [MHz]	Limit [MHz]	Verdict
NTNV	2.4G	Ant1	2402	0.819	≥0.5	PASS
			2440	0.823	≥0.5	PASS
			2480	0.823	≥0.5	PASS

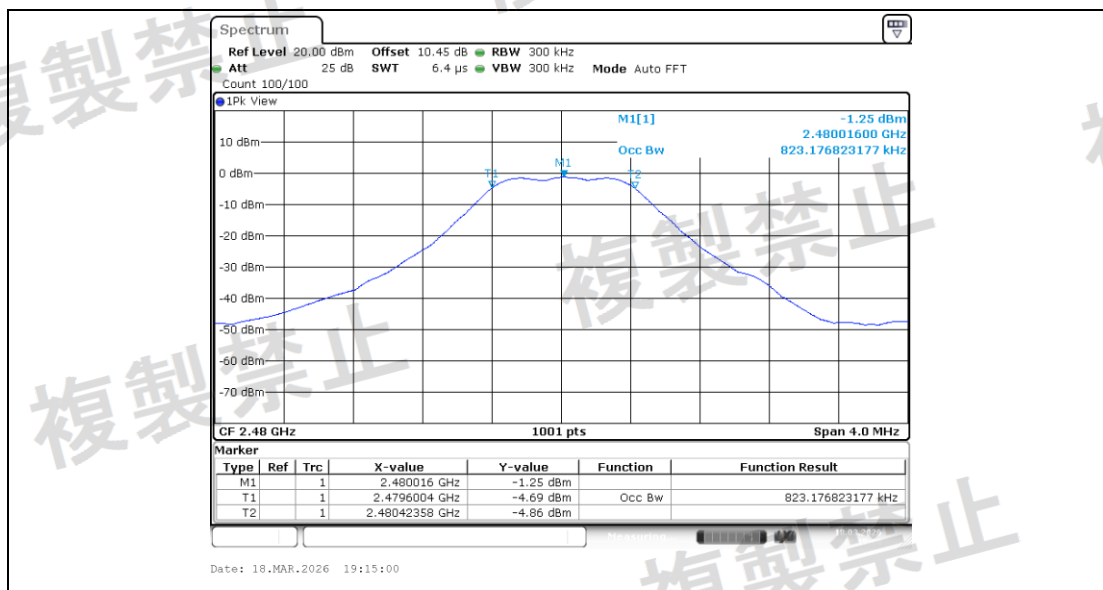
TestCondition	TestMode	Antenna	Freq(MHz)	Result [MHz]	Limit [MHz]	Verdict
NTLV	2.4G	Ant1	2402	0.816	≥0.5	PASS
			2440	0.822	≥0.5	PASS
			2480	0.821	≥0.5	PASS

TestCondition	TestMode	Antenna	Freq(MHz)	Result [MHz]	Limit [MHz]	Verdict
NTHV	2.4G	Ant1	2402	0.817	≥0.5	PASS
			2440	0.822	≥0.5	PASS
			2480	0.820	≥0.5	PASS

Test Graphs

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





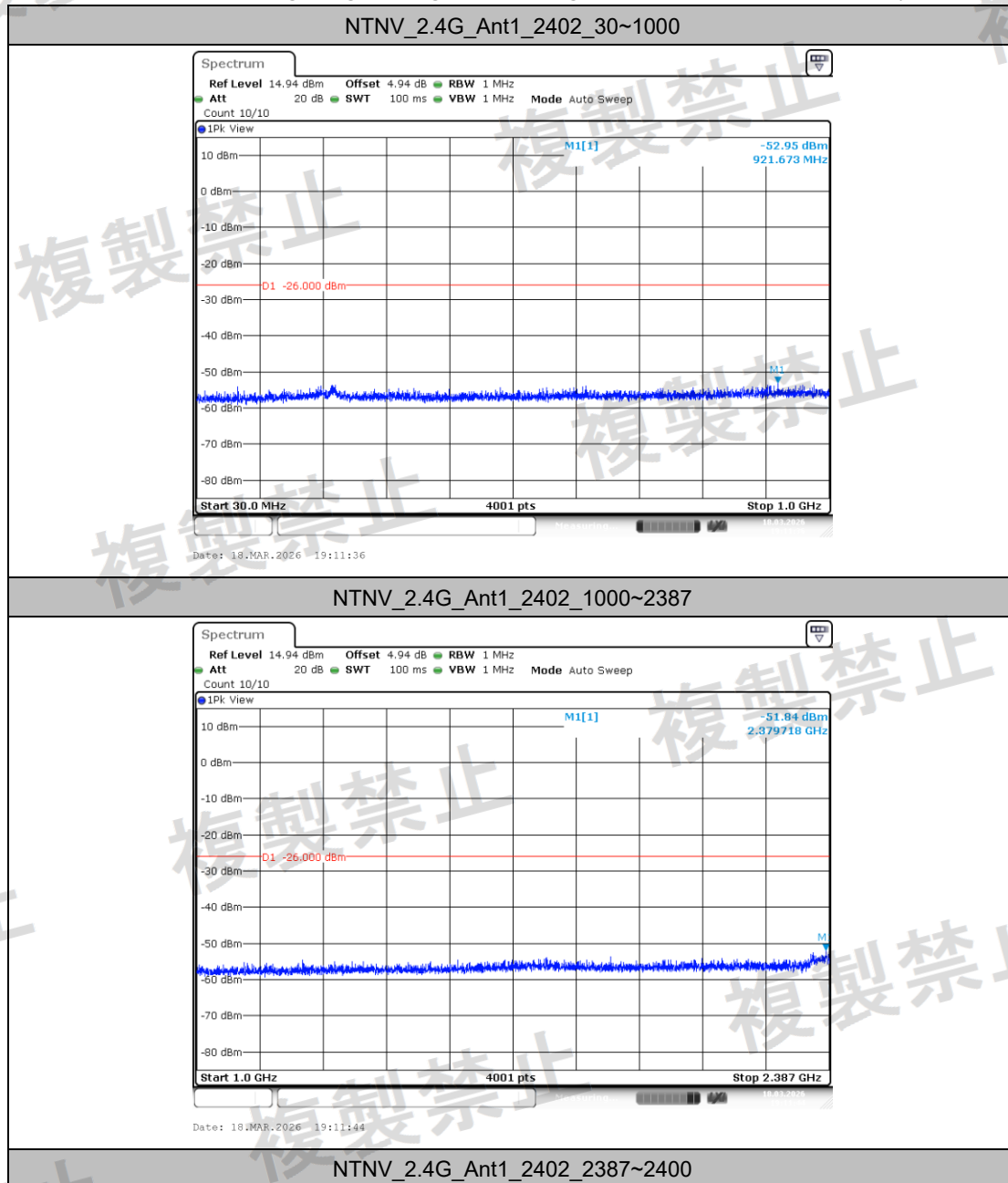
Appendix D: Spurious Emission of TX

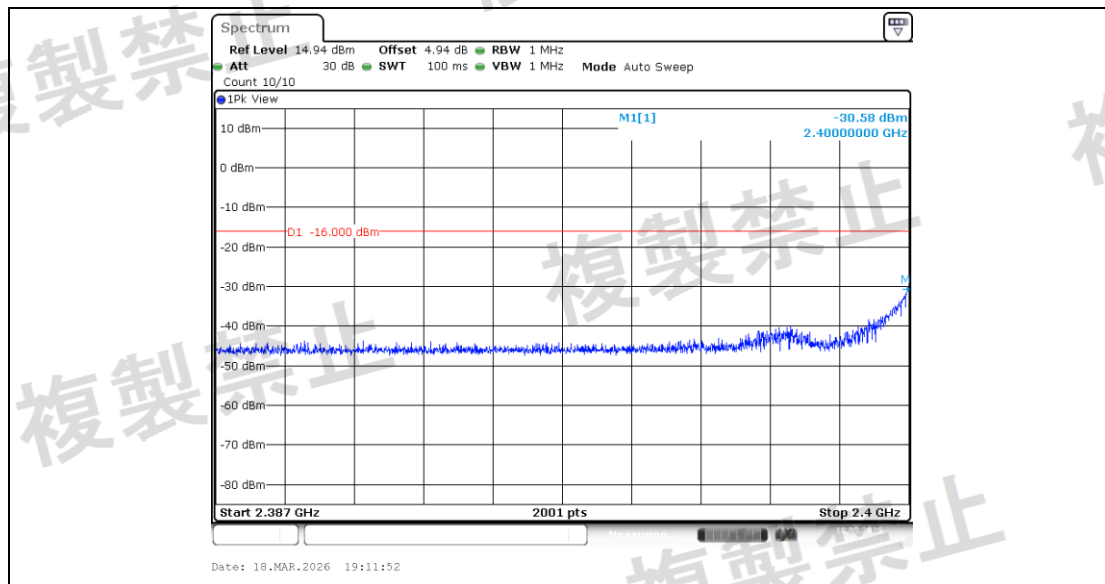
Test Result

TestCondition	TestMode	Antenna	Freq(MHz)	Freq.Range [MHz]	Freq. [MHz]	Result [dBm]	Limit [dBm]	Result [μW]	Limit [μW]	Verdict
NTNV	2.4G	Ant1	2402	30~1000	921.67	-52.95	≤-26	0.00507	≤2.5	PASS
				1000~2387	2379.72	-51.84	≤-26	0.00655	≤2.5	PASS
				2387~2400	2400.00	-30.58	≤-16	0.87498	≤25	PASS
				2483.5~2496.5	2494.31	-43.89	≤-16	0.04083	≤25	PASS
				2496.5~13000	4804.64	-42.21	≤-26	0.06012	≤2.5	PASS
			2440	30~1000	238.07	-53.32	≤-26	0.00466	≤2.5	PASS
				1000~2387	2351.98	-52.65	≤-26	0.00543	≤2.5	PASS
				2387~2400	2395.09	-43.24	≤-16	0.04742	≤25	PASS
				2483.5~2496.5	2486.23	-42.83	≤-16	0.05212	≤25	PASS
				2496.5~13000	4879.22	-41.97	≤-26	0.06353	≤2.5	PASS
			2480	30~1000	239.76	-52.62	≤-26	0.00547	≤2.5	PASS
				1000~2387	2347.12	-51.59	≤-26	0.00693	≤2.5	PASS
				2387~2400	2399.03	-43.66	≤-16	0.04305	≤25	PASS
				2483.5~2496.5	2484.34	-39.96	≤-16	0.10093	≤25	PASS
				2496.5~13000	4959.57	-41.27	≤-26	0.07464	≤2.5	PASS

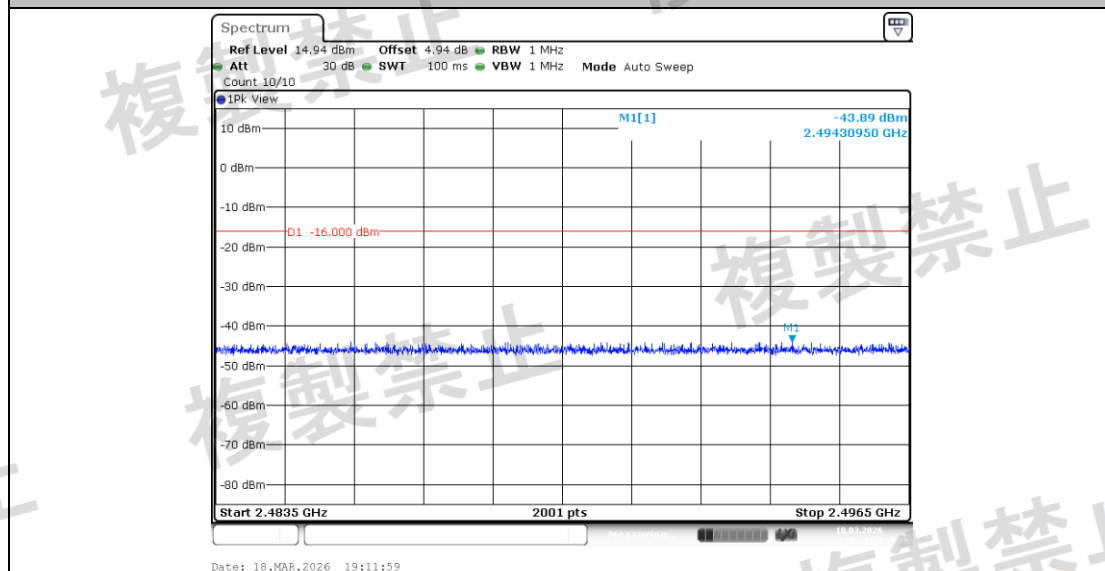
Test Graphs

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

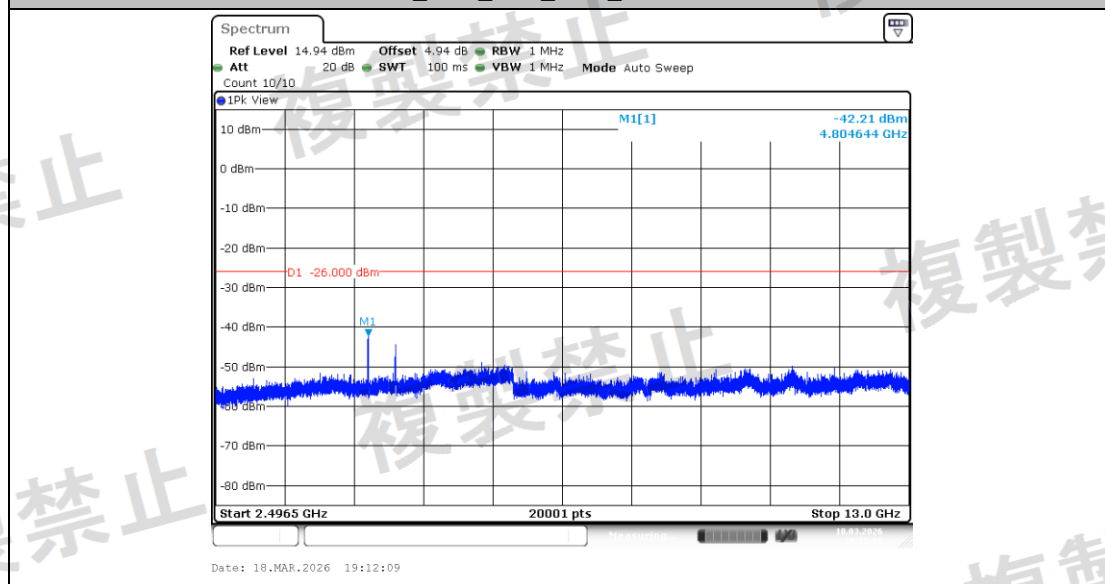


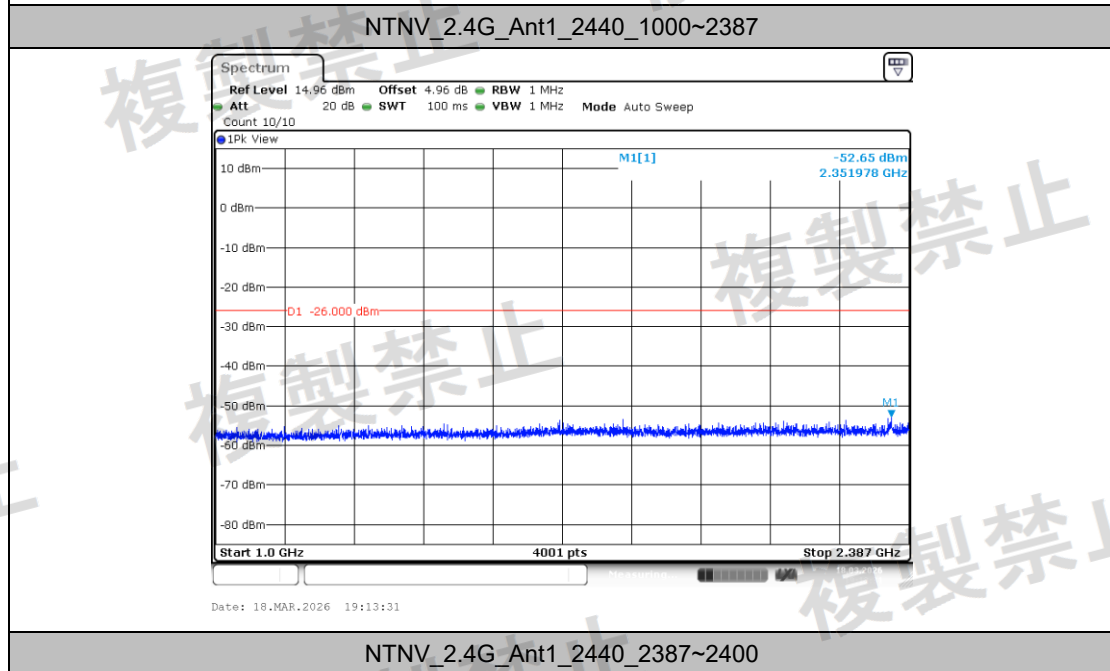
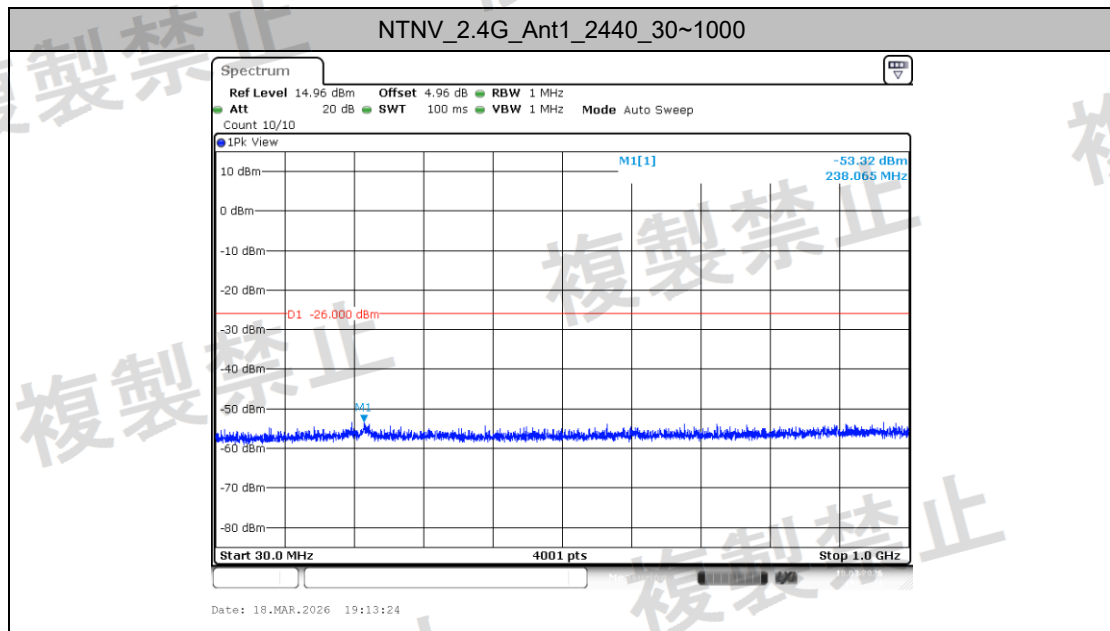


NTNV_2.4G_Ant1_2402_2483.5~2496.5

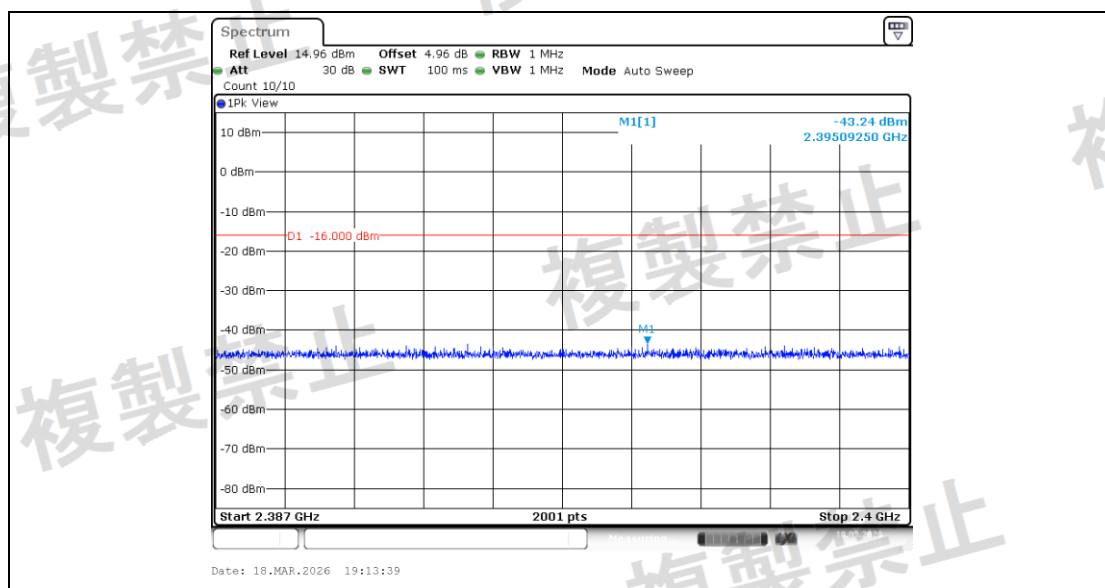


NTNV_2.4G_Ant1_2402_2496.5~13000

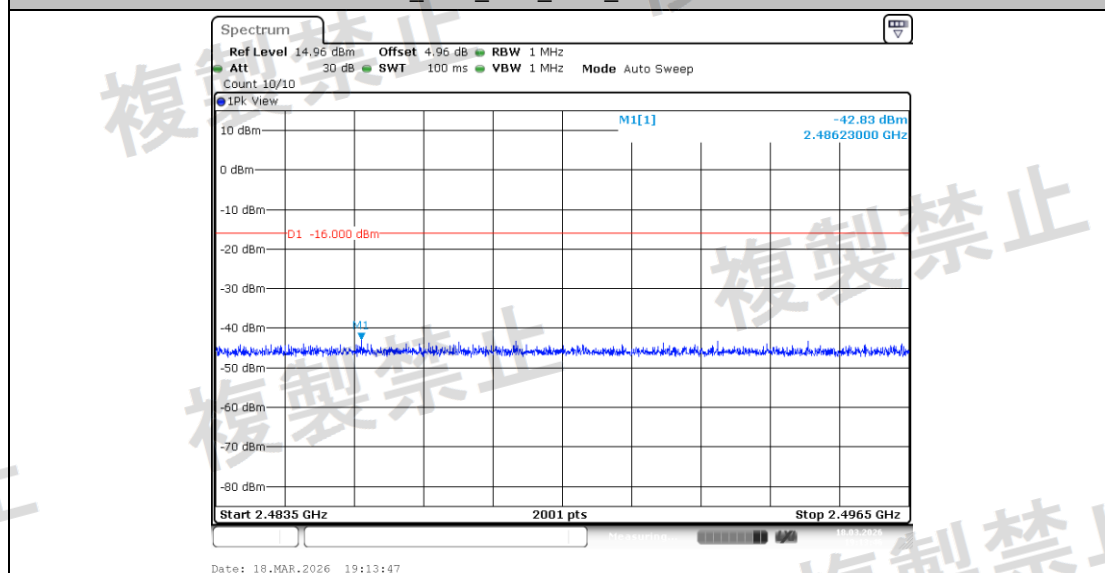




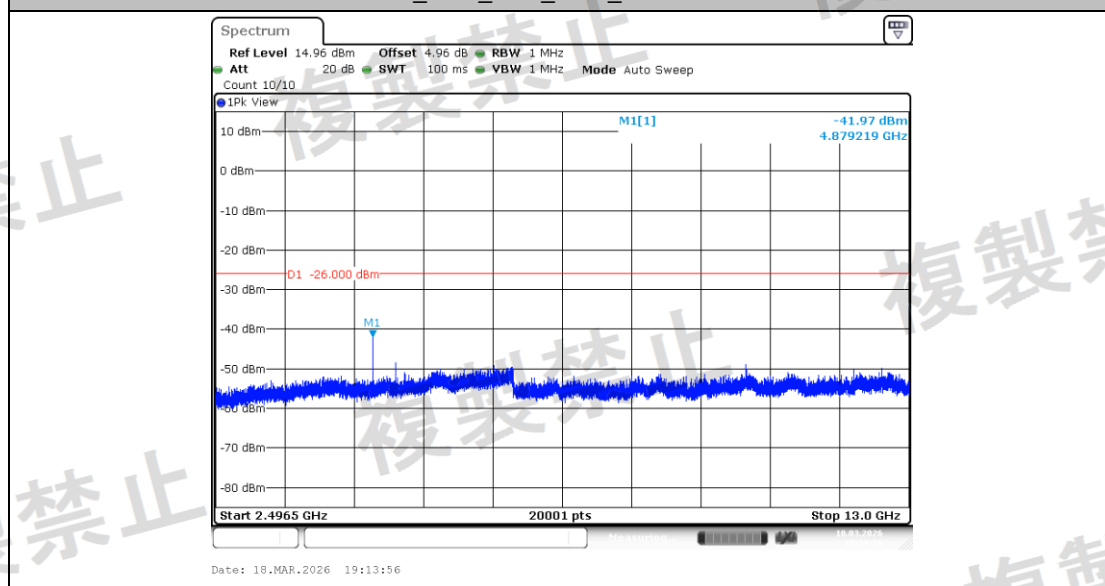
NTNV_2.4G_Ant1_2440_2387~2400

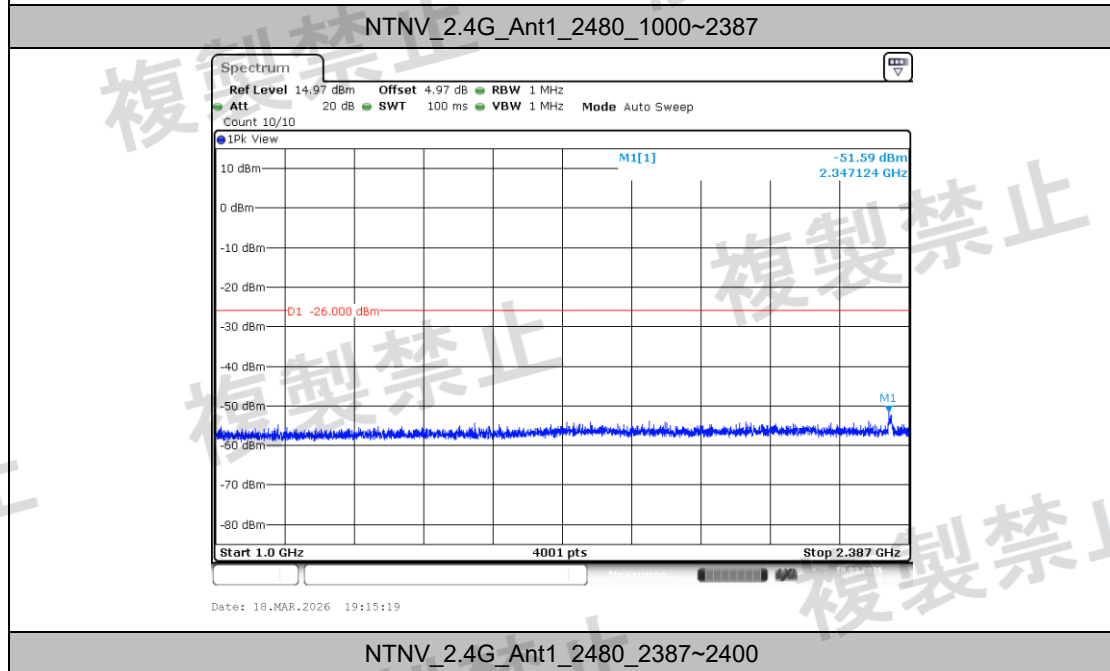
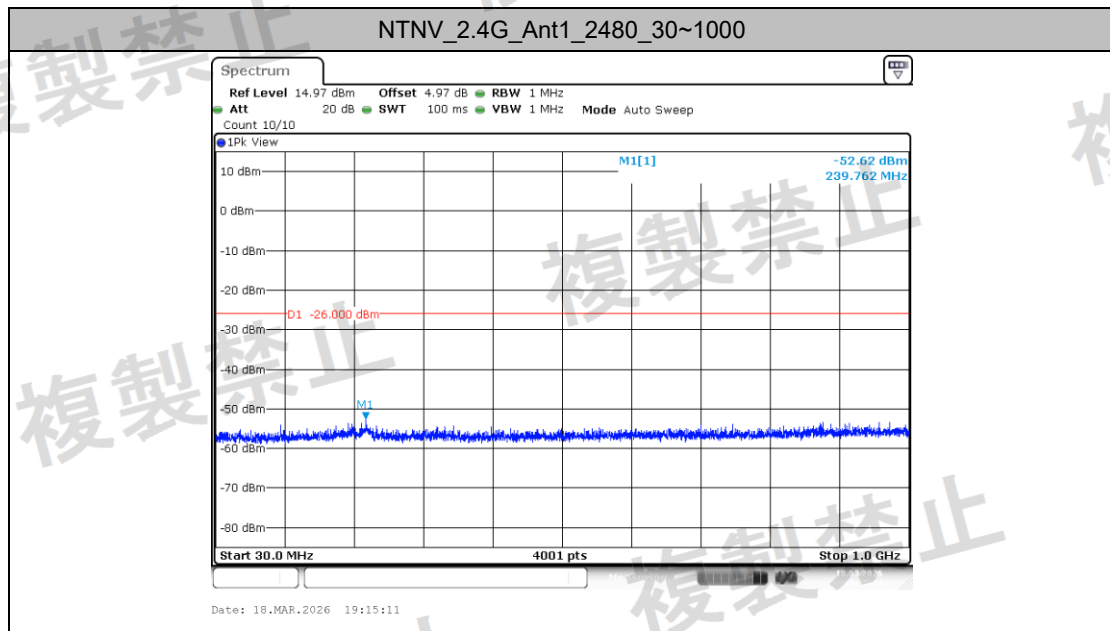


NTNV_2.4G_Ant1_2440_2483.5~2496.5

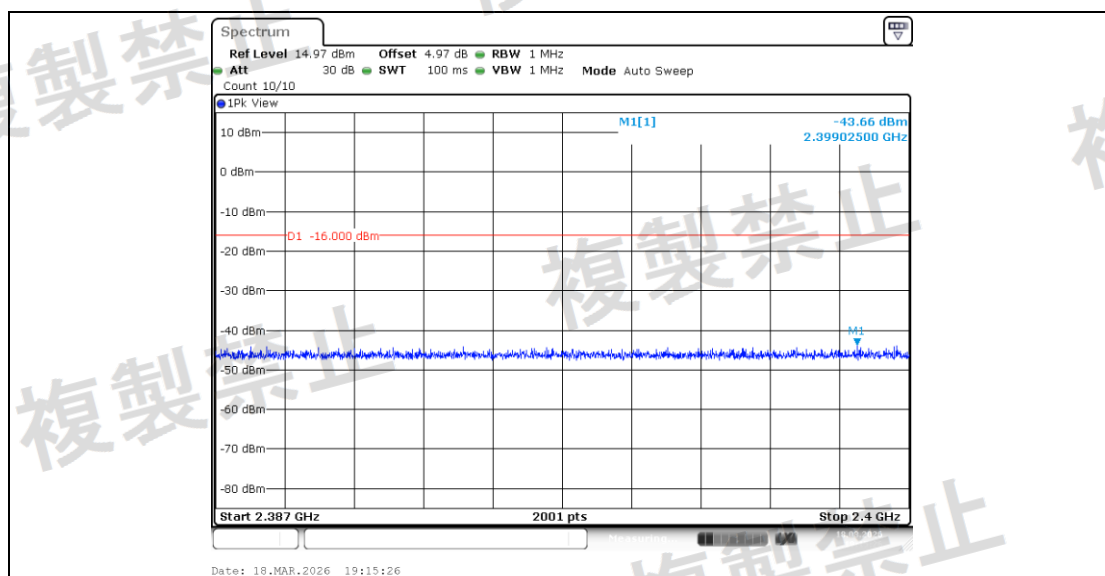


NTNV_2.4G_Ant1_2440_2496.5~13000

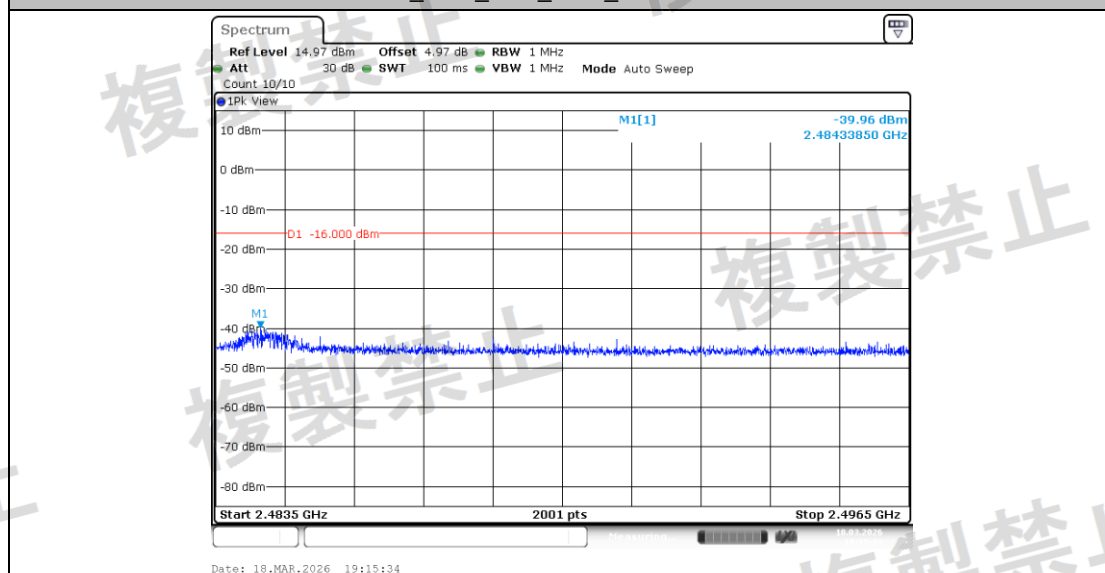




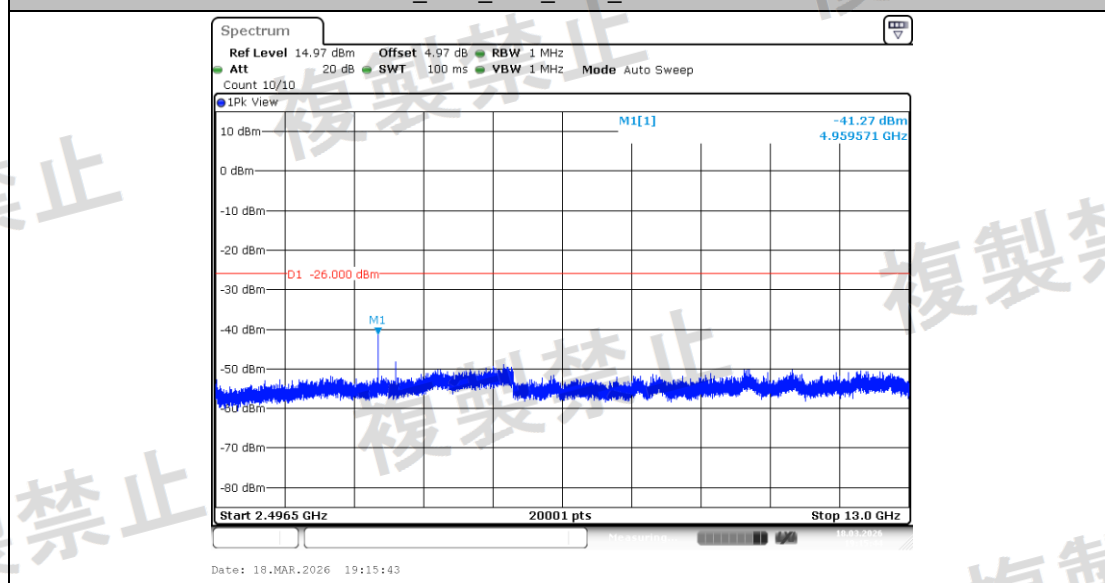
NTNV_2.4G_Ant1_2480_2387~2400



NTNV_2.4G_Ant1_2480_2483.5~2496.5



NTNV_2.4G_Ant1_2480_2496.5~13000



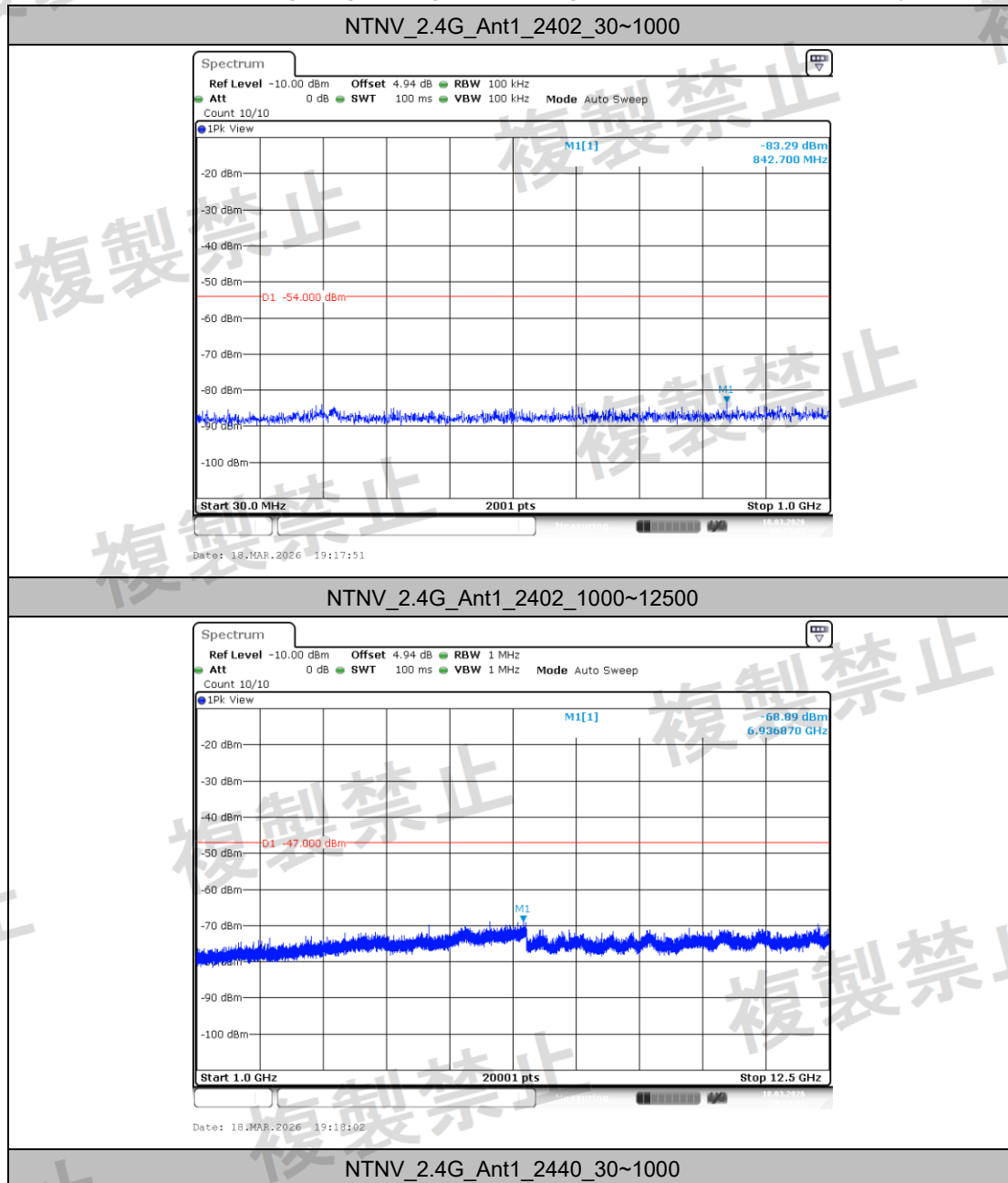
Appendix E: Spurious Emission of RX

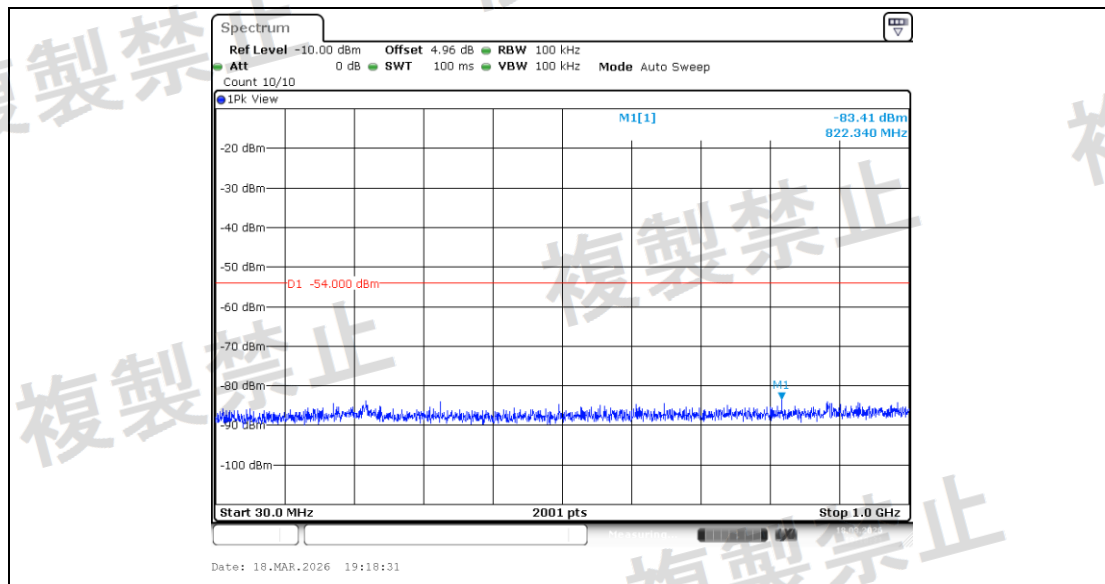
Test Result

TestCondition	TestMode	Antenna	Freq(MHz)	Freq.Range [MHz]	Freq. [MHz]	Result [dBm]	Limit [dBm]	Result [nW]	Limit [nW]	Verdict
NTNV	2.4G	Ant1	2402	30~1000	842.70	-83.29	≤-54	0.00469	≤4	PASS
				1000~12500	6936.87	-68.89	≤-47	0.12912	≤20	PASS
			2440	30~1000	822.34	-83.41	≤-54	0.00456	≤4	PASS
				1000~12500	6456.19	-68.72	≤-47	0.13428	≤20	PASS
			2480	30~1000	791.80	-84.14	≤-54	0.00385	≤4	PASS
				1000~12500	6908.12	-69.64	≤-47	0.10864	≤20	PASS

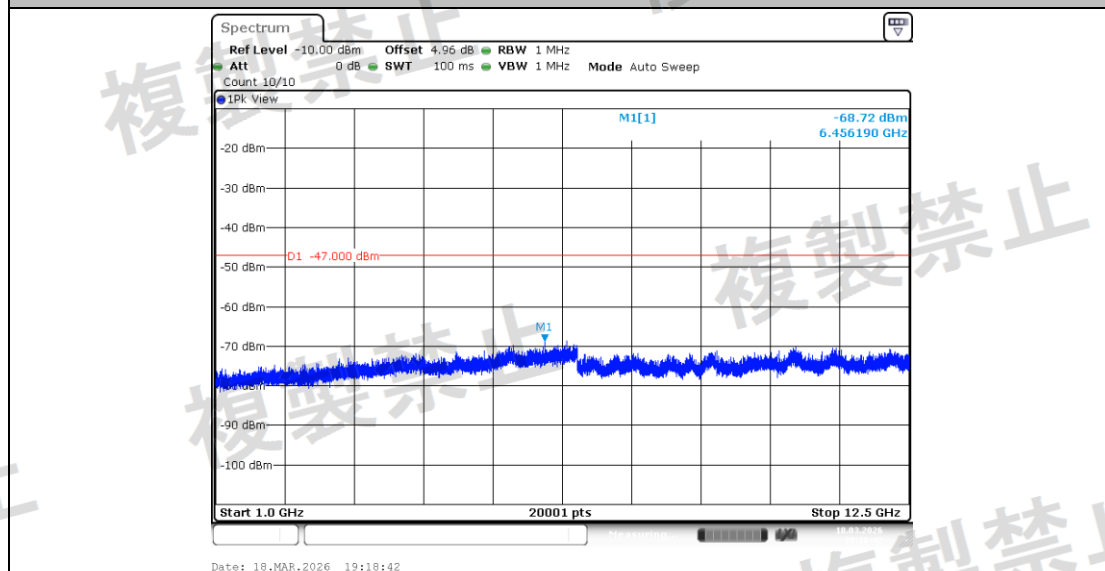
Test Graphs

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





NTNV_2.4G_Ant1_2440_1000~12500



NTNV_2.4G_Ant1_2480_30~1000

