Appendix RF Test Data for 2.4G

Company	:	**HISONG Music Technology Inc.**
EUT	:	**HISONG RX Plus Component Set**
Model Number	:	**HS-AS1-RXP**
Report No.	:	**CTA26031700301**
Reviewed By	:	**Eric Wang**

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Appendix A: Frequency Error

Test Result

TestCondition	TestMode	Antenna	Freq(MHz)	Result[ppm]	Limit[ppm]	Verdict
NTNV	2.4G	Ant1	2402	5.11657	±50	PASS
			2440	4.91393	±50	PASS
			2480	4.95565	±50	PASS

TestCondition	TestMode	Antenna	Freq(MHz)	Result[ppm]	Limit[ppm]	Verdict
NTLV	2.4G	Ant1	2402	4.88217	±50	PASS
			2440	4.75680	±50	PASS
			2480	4.76957	±50	PASS

TestCondition	TestMode	Antenna	Freq(MHz)	Result[ppm]	Limit[ppm]	Verdict
NTHV	2.4G	Ant1	2402	4.87151	±50	PASS
			2440	4.74522	±50	PASS
			2480	4.72486	±50	PASS

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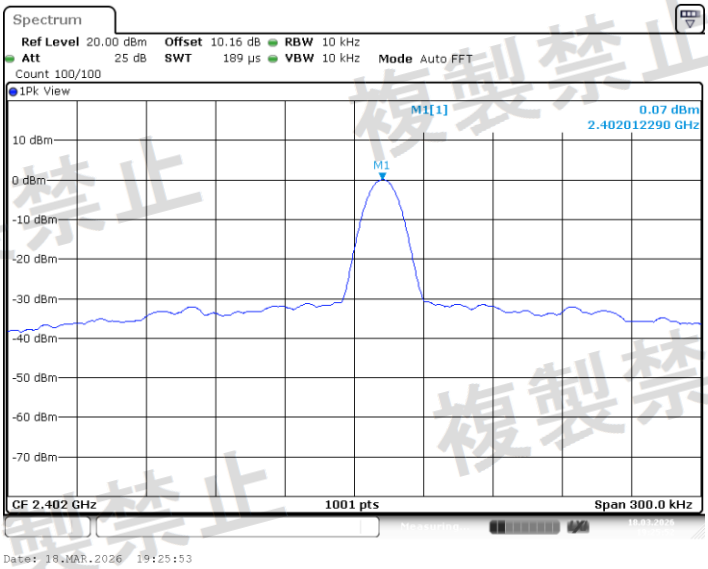
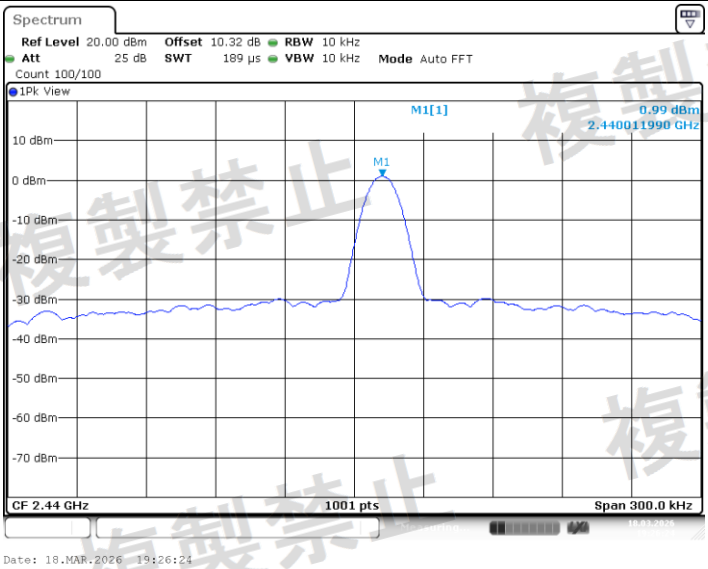
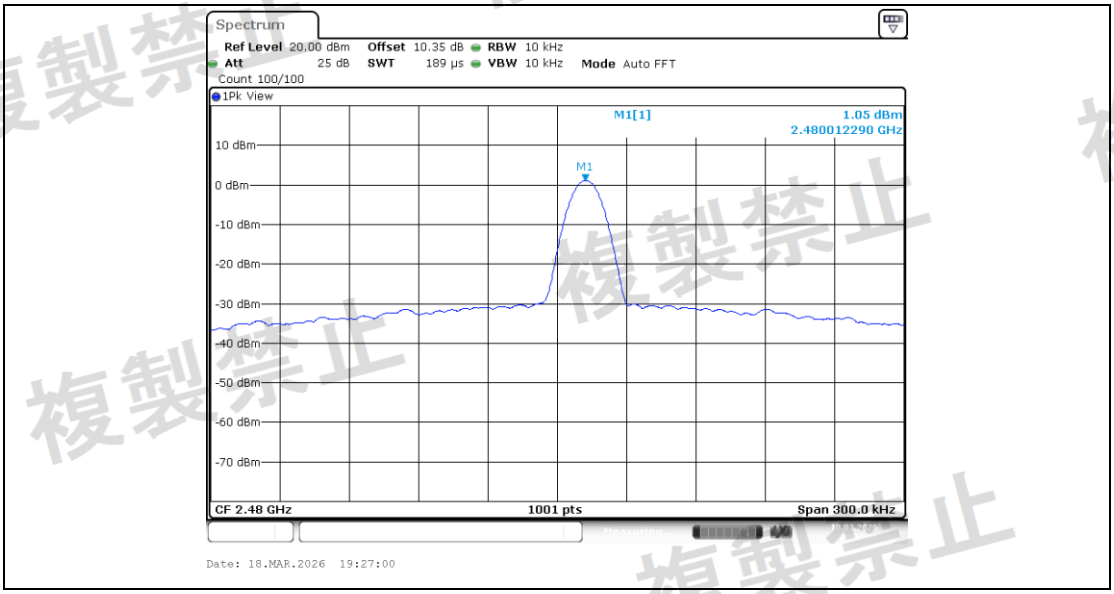
Test Graphs

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

NTNV_2.4G_Ant1_2402

NTNV_2.4G_Ant1_2440

NTNV_2.4G_Ant1_2480


Spectrum
Ref Level 20.00 dBm Offset 10.35 dB RBW 10 kHz
Att 25 dB SWT 189 µs VBW 10 kHz Mode Auto FFT
Count 100/100
1Pk View
M1[1] 1.05 dBm
2.480012290 GHz
10 dBm
0 dBm
-10 dBm
-20 dBm
-30 dBm
-40 dBm
-50 dBm
-60 dBm
-70 dBm
M1
CF 2.48 GHz
1001 pts
Span 300.0 kHz
Date: 18.MAR.2026 19:27:00

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Appendix B: Occupied Bandwidth

Test Result

TestCondition	TestMode	Antenna	Freq(MHz)	Result [MHz]	Limit [MHz]	Verdict
NTNV	2.4G	Ant1	2402	1.219	≤26	PASS
			2440	1.223	≤26	PASS
			2480	1.223	≤26	PASS

TestCondition	TestMode	Antenna	Freq(MHz)	Result [MHz]	Limit [MHz]	Verdict
NTLV	2.4G	Ant1	2402	1.214	≤26	PASS
			2440	1.221	≤26	PASS
			2480	1.220	≤26	PASS

TestCondition	TestMode	Antenna	Freq(MHz)	Result [MHz]	Limit [MHz]	Verdict
NTHV	2.4G	Ant1	2402	1.218	≤26	PASS
			2440	1.222	≤26	PASS
			2480	1.217	≤26	PASS

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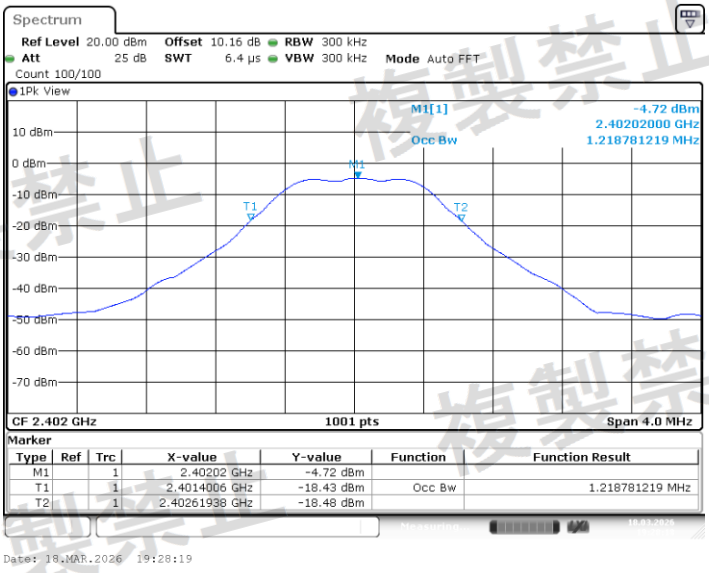
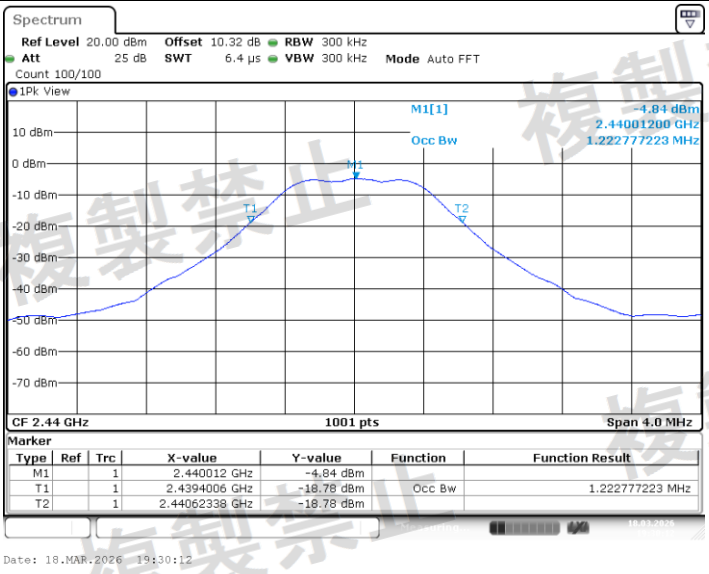
Test Graphs

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

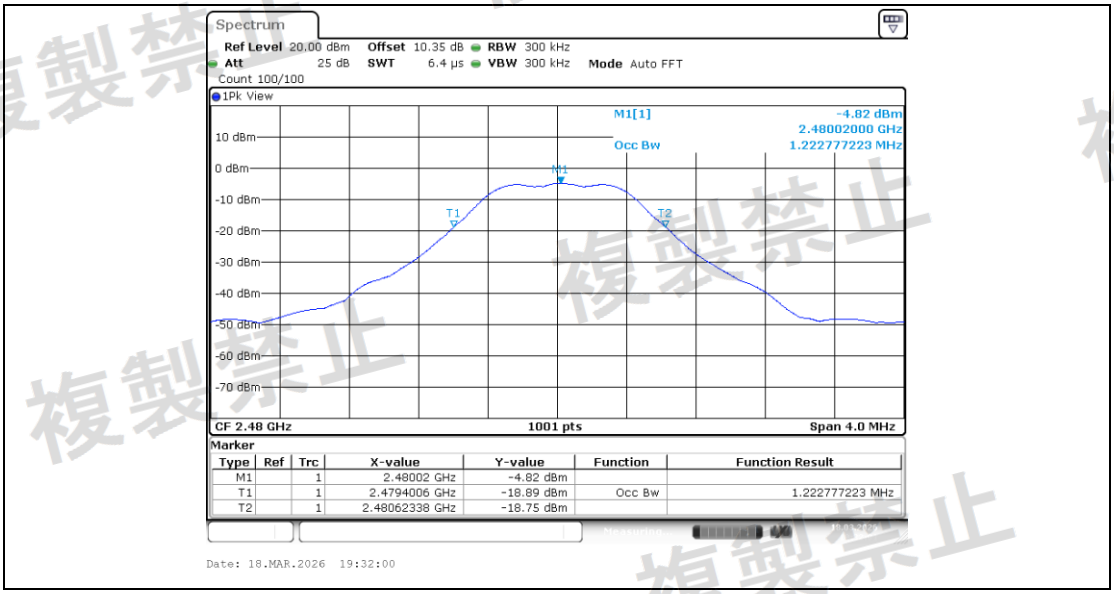
NTNV_2.4G_Ant1_2402



NTNV_2.4G_Ant1_2440



NTNV_2.4G_Ant1_2480


Spectrum
Ref Level 20.00 dBm Offset 10.35 dB RBW 300 kHz
Att 25 dB SWT 6.4 µs VBW 300 kHz Mode Auto FFT
Count 100/100
1Pk View
M1[1] -4.82 dBm
2.48002000 GHz
Occ Bw 1.222777223 MHz
10 dBm
0 dBm
-10 dBm
-20 dBm
-30 dBm
-40 dBm
-50 dBm
-60 dBm
-70 dBm
M1
T1
T2
CF 2.48 GHz
1001 pts
Span 4.0 MHz
Marker
Type Ref Trc X-value Y-value Function Function Result
M1 1 2.48002 GHz -4.82 dBm
T1 1 2.4794006 GHz -18.89 dBm Occ Bw 1.222777223 MHz
T2 1 2.48062338 GHz -18.75 dBm
Date: 18.MAR.2026 19:32:00

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Appendix C: Spread Bandwidth

Test Result

TestCondition	TestMode	Antenna	Freq(MHz)	Result [MHz]	Limit [MHz]	Verdict
NTNV	2.4G	Ant1	2402	0.815	≥0.5	PASS
			2440	0.815	≥0.5	PASS
			2480	0.819	≥0.5	PASS

TestCondition	TestMode	Antenna	Freq(MHz)	Result [MHz]	Limit [MHz]	Verdict
NTLV	2.4G	Ant1	2402	0.812	≥0.5	PASS
			2440	0.814	≥0.5	PASS
			2480	0.817	≥0.5	PASS

TestCondition	TestMode	Antenna	Freq(MHz)	Result [MHz]	Limit [MHz]	Verdict
NTHV	2.4G	Ant1	2402	0.813	≥0.5	PASS
			2440	0.810	≥0.5	PASS
			2480	0.816	≥0.5	PASS

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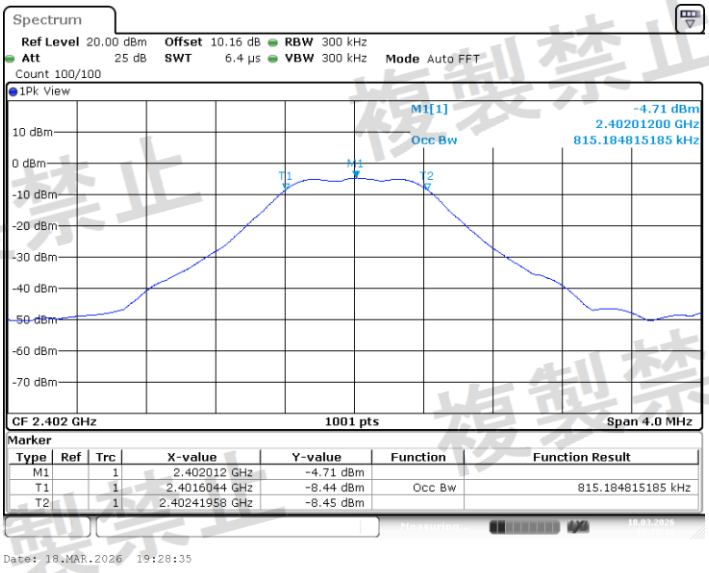
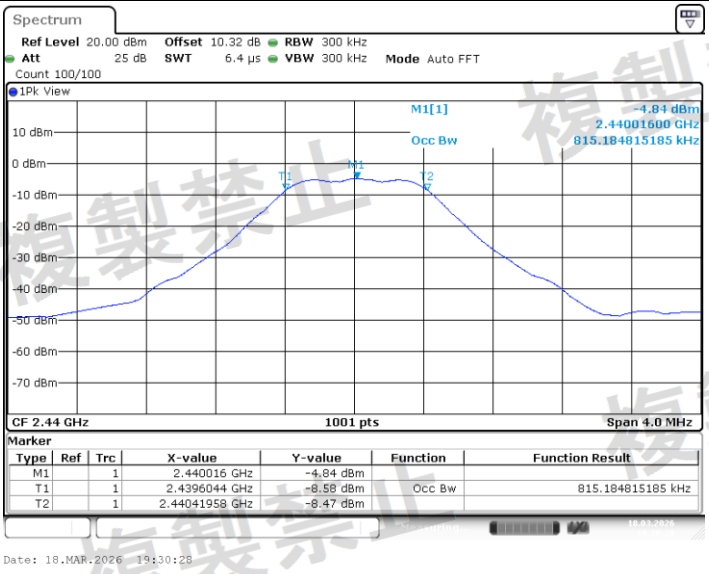
Test Graphs

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

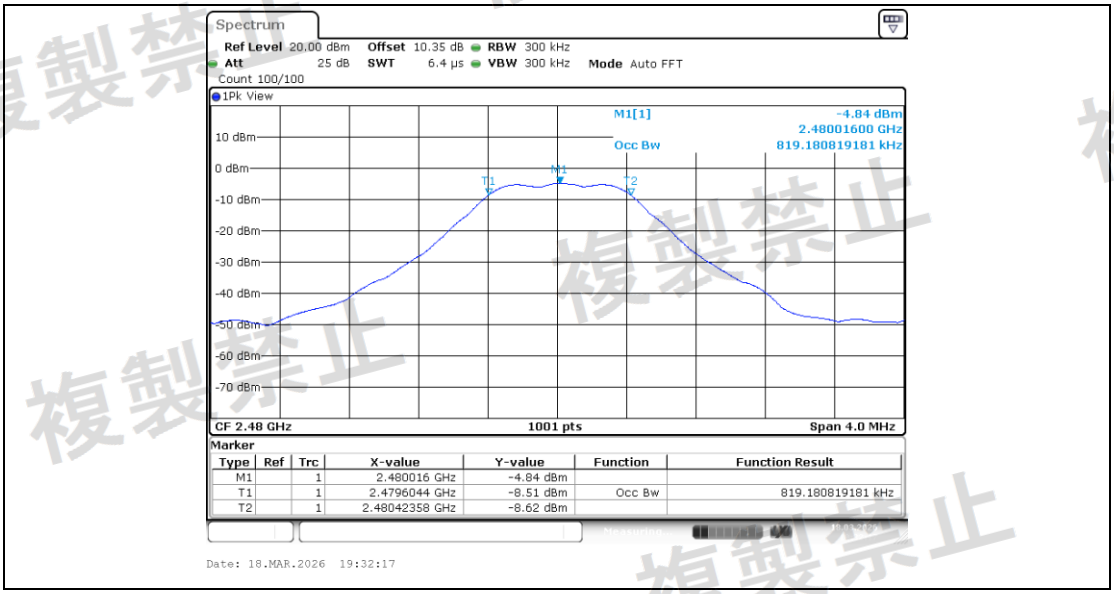
NTNV_2.4G_Ant1_2402



NTNV_2.4G_Ant1_2440



NTNV_2.4G_Ant1_2480


Spectrum
Ref Level 20.00 dBm Offset 10.35 dB RBW 300 kHz
Att 25 dB SWT 6.4 µs VBW 300 kHz Mode Auto FFT
Count 100/100
1Pk View
M1[1] -4.84 dBm
2.48001600 GHz
Occ Bw 819.180819181 kHz
10 dBm
0 dBm
-10 dBm
-20 dBm
-30 dBm
-40 dBm
-50 dBm
-60 dBm
-70 dBm
CF 2.48 GHz
1001 pts
Span 4.0 MHz
Marker
Type Ref Trc X-value Y-value Function Function Result
M1 1 2.480016 GHz -4.84 dBm
T1 1 2.4796044 GHz -8.51 dBm Occ Bw 819.180819181 kHz
T2 1 2.48042358 GHz -8.62 dBm
Date: 18.MAR.2026 19:32:17

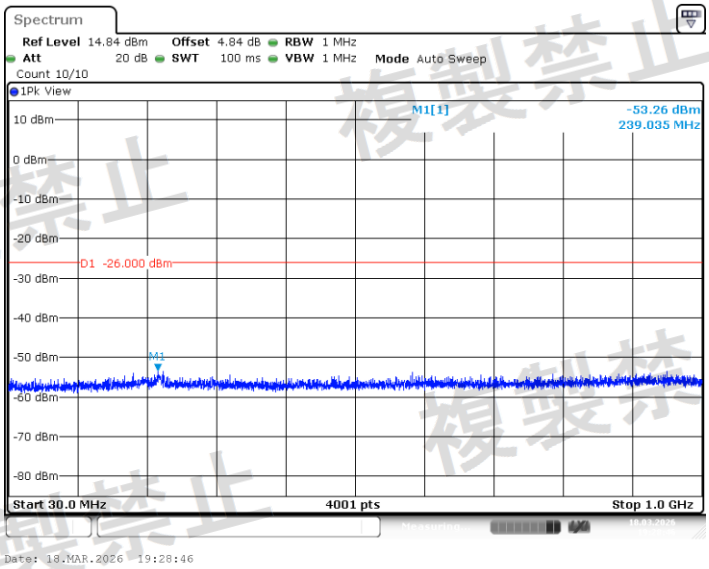
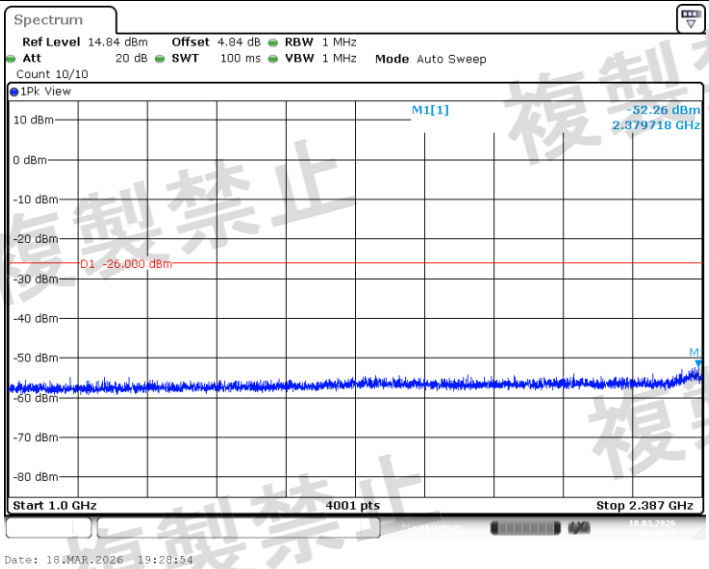
Appendix D: Spurious Emission of TX

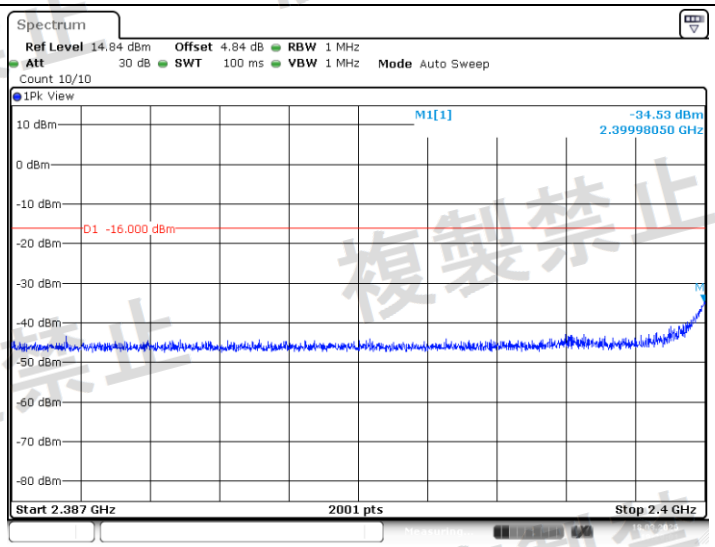
Test Result

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	239.04	-53.26	≤-26	0.00472	≤2.5	PASS
				1000~2387	2379.72	-52.26	≤-26	0.00594	≤2.5	PASS
				2387~2400	2399.98	-34.53	≤-16	0.35237	≤25	PASS
				2483.5~2496.5	2490.94	-43.74	≤-16	0.04227	≤25	PASS
				2496.5~13000	4804.64	-45.50	≤-26	0.02818	≤2.5	PASS
			2440	30~1000	904.94	-52.70	≤-26	0.00537	≤2.5	PASS
				1000~2387	2345.39	-53.58	≤-26	0.00439	≤2.5	PASS
				2387~2400	2400.00	-43.38	≤-16	0.04592	≤25	PASS
				2483.5~2496.5	2485.20	-43.55	≤-16	0.04416	≤25	PASS
				2496.5~13000	4879.74	-44.81	≤-26	0.03304	≤2.5	PASS
			2480	30~1000	240.01	-53.08	≤-26	0.00492	≤2.5	PASS
				1000~2387	2349.55	-52.85	≤-26	0.00519	≤2.5	PASS
				2387~2400	2397.86	-42.94	≤-16	0.05082	≤25	PASS
				2483.5~2496.5	2484.66	-42.68	≤-16	0.05395	≤25	PASS
				2496.5~13000	4960.10	-45.37	≤-26	0.02904	≤2.5	PASS

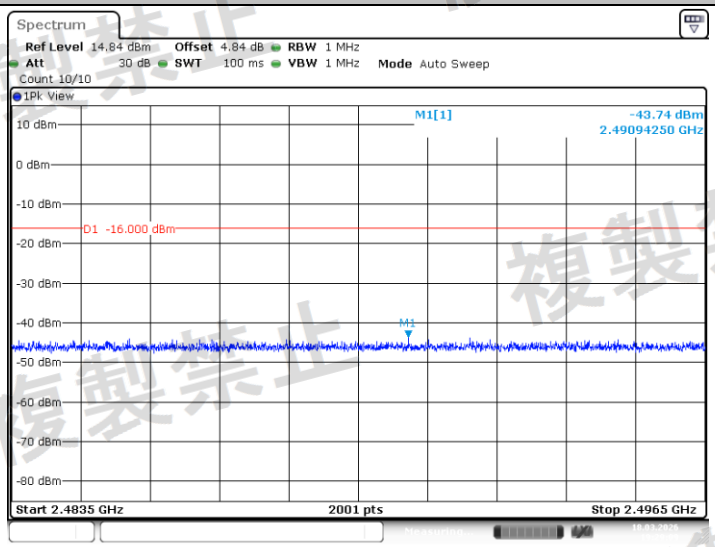
Test Graphs

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

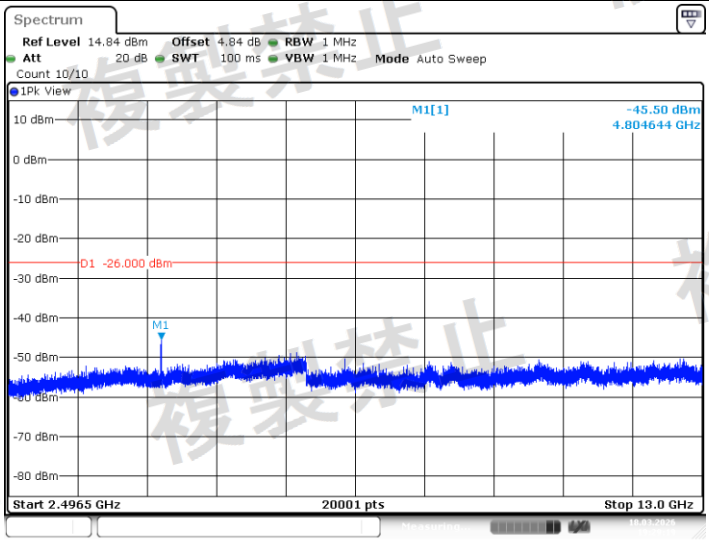
NTNV_2.4G_Ant1_2402_30~1000

NTNV_2.4G_Ant1_2402_1000~2387

NTNV_2.4G_Ant1_2402_2387~2400



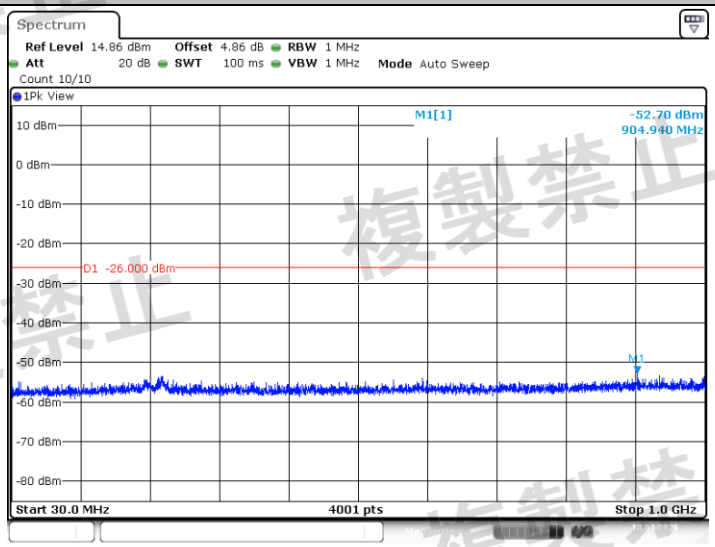
NTNV_2.4G_Ant1_2402_2483.5~2496.5



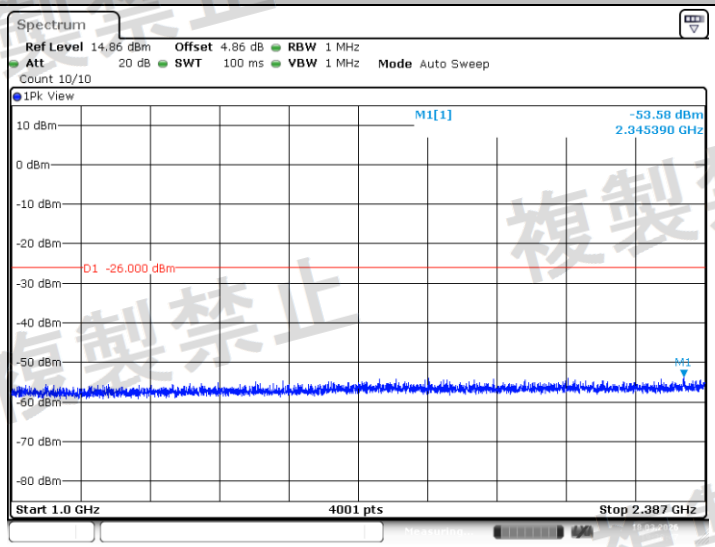
NTNV_2.4G_Ant1_2402_2496.5~13000



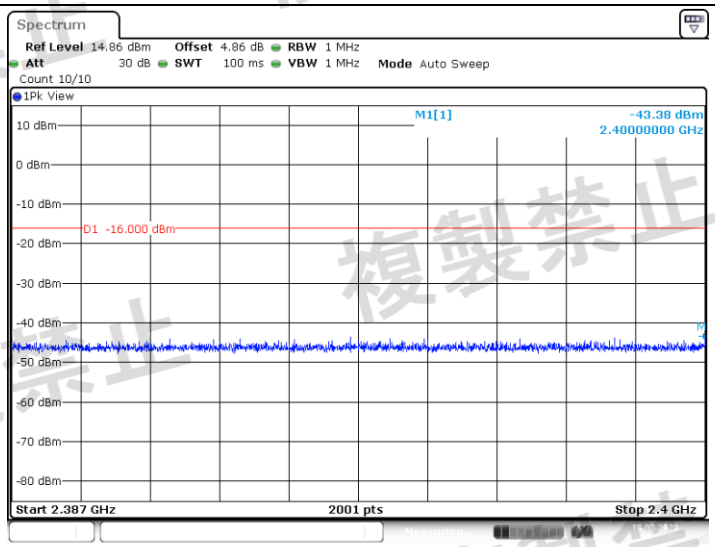
NTNV_2.4G_Ant1_2440_30~1000



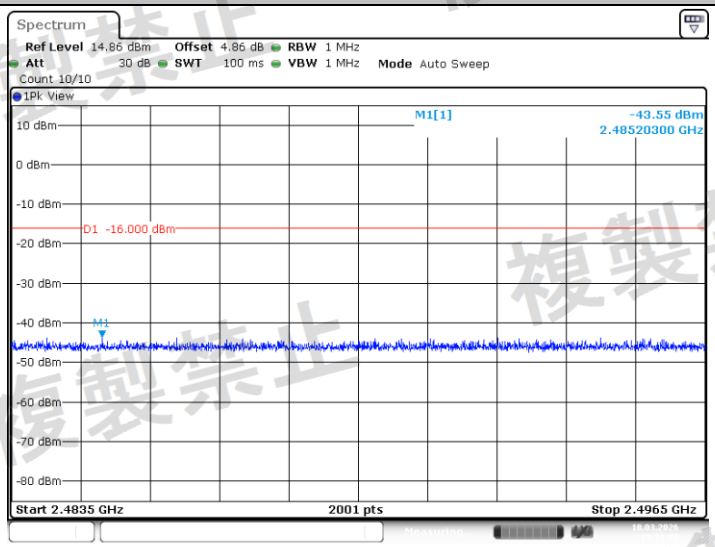
NTNV_2.4G_Ant1_2440_1000~2387



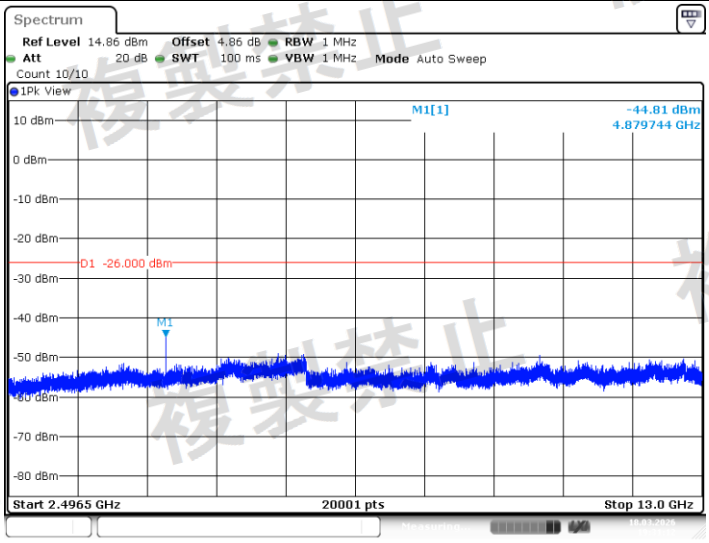
NTNV_2.4G_Ant1_2440_2387~2400



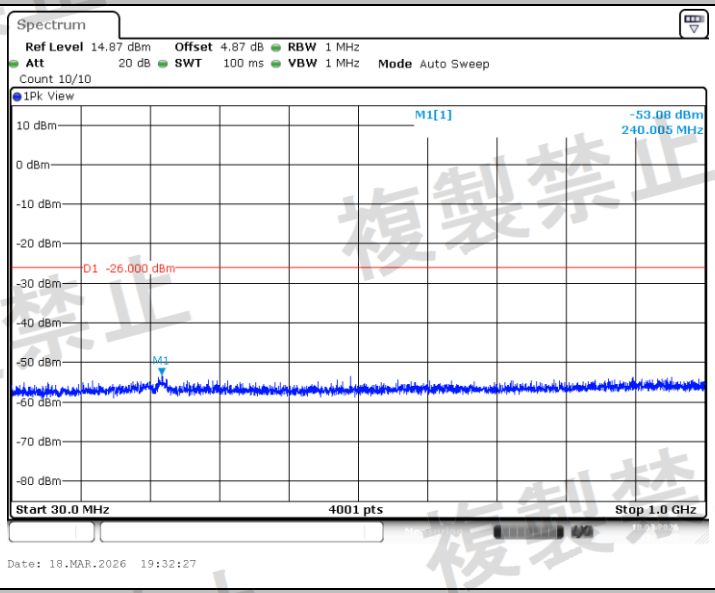
NTNV_2.4G_Ant1_2440_2483.5~2496.5



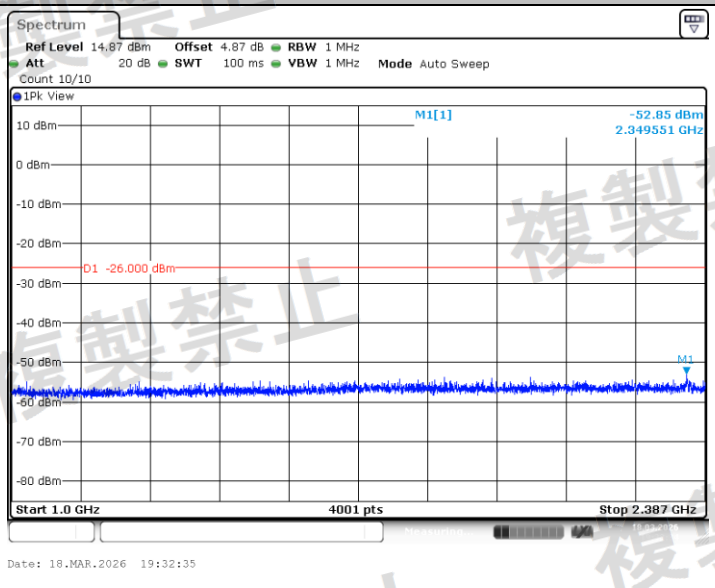
NTNV_2.4G_Ant1_2440_2496.5~13000



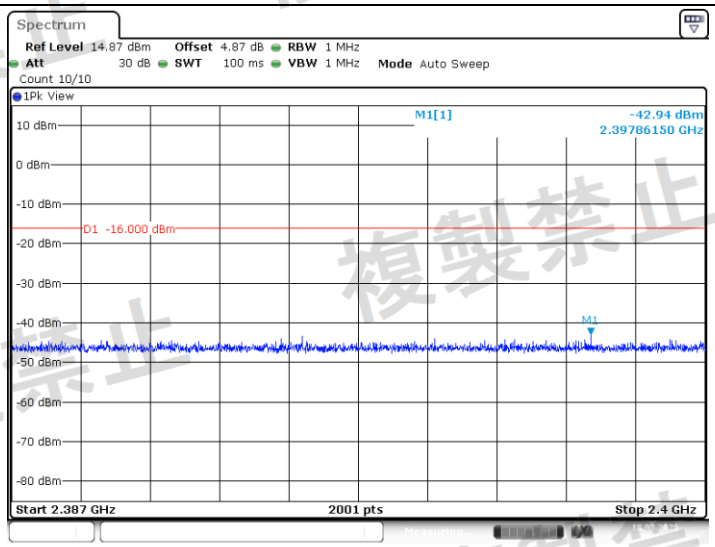
NTNV_2.4G_Ant1_2480_30~1000



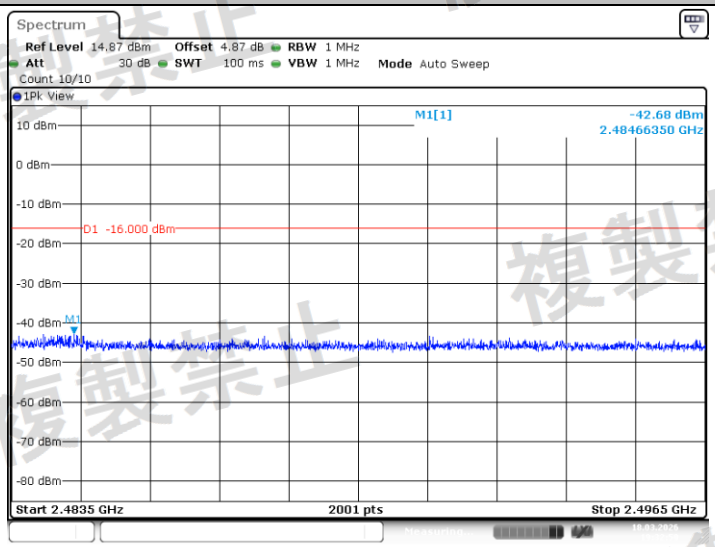
NTNV_2.4G_Ant1_2480_1000~2387



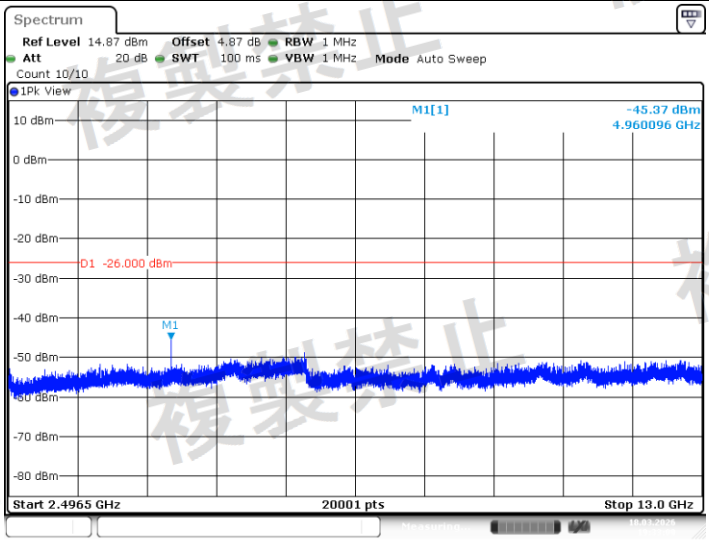
NTNV_2.4G_Ant1_2480_2387~2400



NTNV_2.4G_Ant1_2480_2483.5~2496.5



NTNV_2.4G_Ant1_2480_2496.5~13000



Appendix E: Spurious Emission of RX

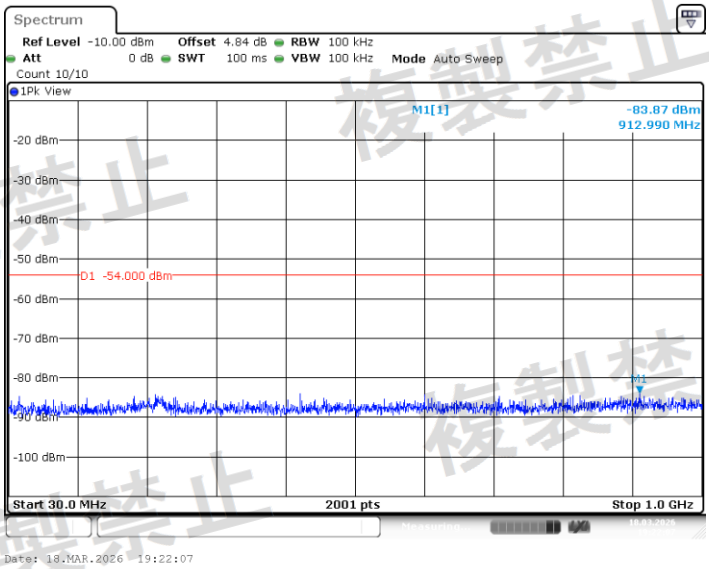
Test Result

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	912.99	-83.87	≤-54	0.00410	≤4	PASS
				1000~12500	6407.89	-69.51	≤-47	0.11194	≤20	PASS
			2440	30~1000	899.90	-83.45	≤-54	0.00452	≤4	PASS
				1000~12500	6348.67	-69.33	≤-47	0.11668	≤20	PASS
			2480	30~1000	916.38	-83.98	≤-54	0.00400	≤4	PASS
				1000~12500	6911.57	-68.17	≤-47	0.15241	≤20	PASS

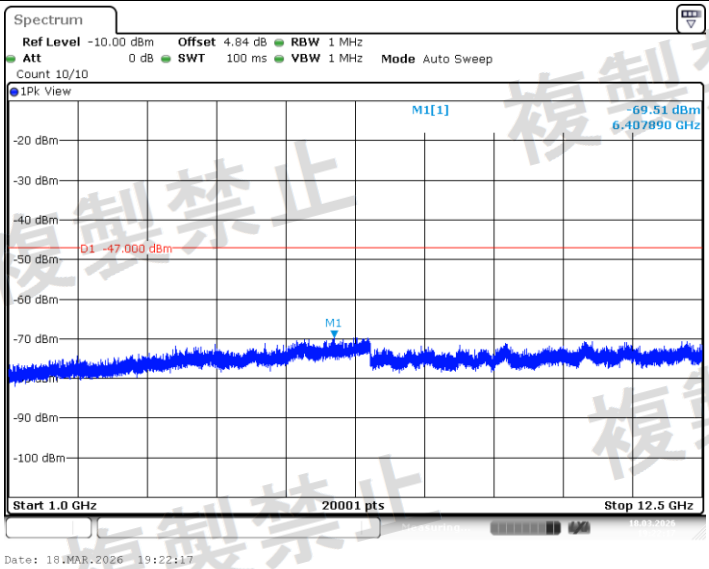
Test Graphs

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

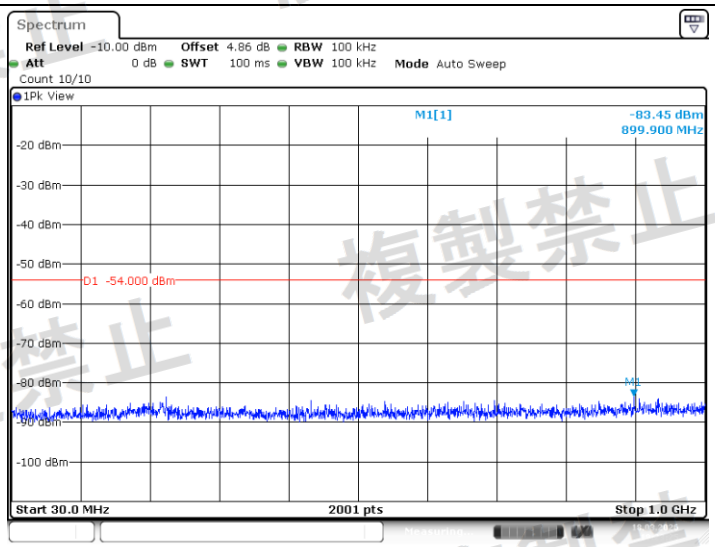
NTNV_2.4G_Ant1_2402_30~1000



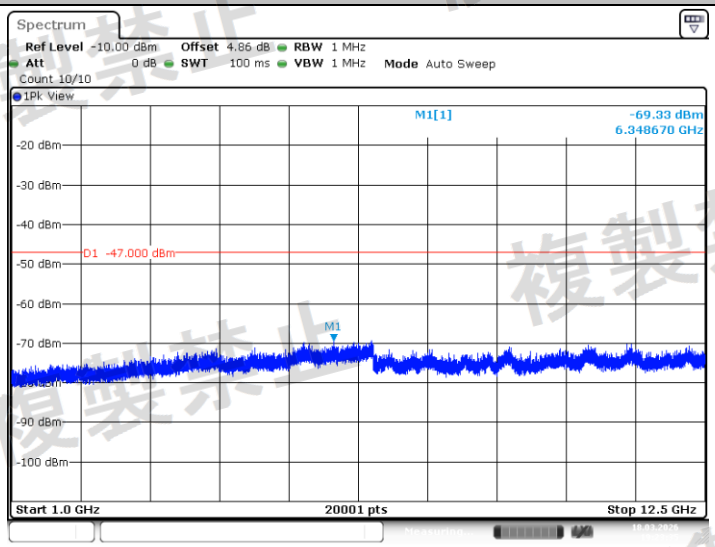
NTNV_2.4G_Ant1_2402_1000~12500



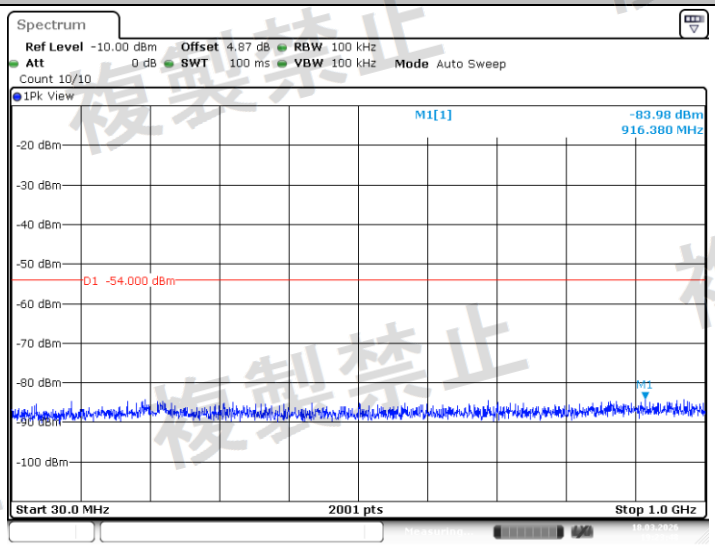
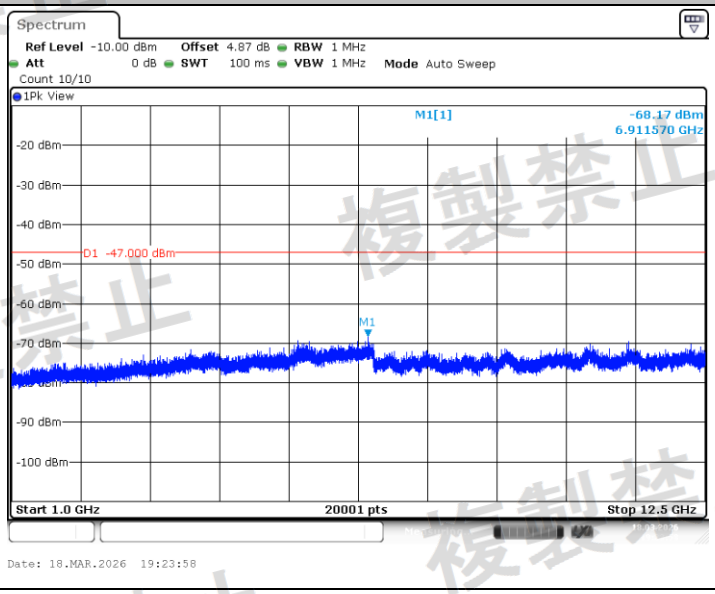
NTNV_2.4G_Ant1_2440_30~1000



NTNV_2.4G_Ant1_2440_1000~12500



NTNV_2.4G_Ant1_2480_30~1000



NTNV_2.4G_Ant1_2480_1000~12500