

Appendix A. Test Result of Antenna Power, Antenna Power Tolerance and E.I.R.P

Antenna Power

Test Conditions	Modulation	Frequency (MHz)	Antenna Power (dBm)	Antenna Power (mW)	Limit (mW)	Result
V _{nom}	GFSK (4Mbps)	2404	5.63	3.6559	10.0000	Pass
		2440	5.71	3.7239	10.0000	Pass
		2478	5.82	3.8194	10.0000	Pass

Antenna Power With Duty Factor

Antenna Power Tolerance

Test Conditions	Modulation	Frequency (MHz)	Declared Antenna Power (mW)	Antenna Power (mW)	Antenna Power Tolerance (%)	Limit (%)	Result
V _{nom}	GFSK (4Mbps)	2404	3.8194	3.6559	-4.28	+20	Pass
		2440	3.8194	3.7239	-2.50	+20	Pass
		2478	3.8194	3.8194	0.00	+20	Pass

Note: Antenna Power Tolerance (%) = (Antenna Power (mW) - Declared Antenna Power (mW)) / Declared Antenna Power (mW) * 100%.

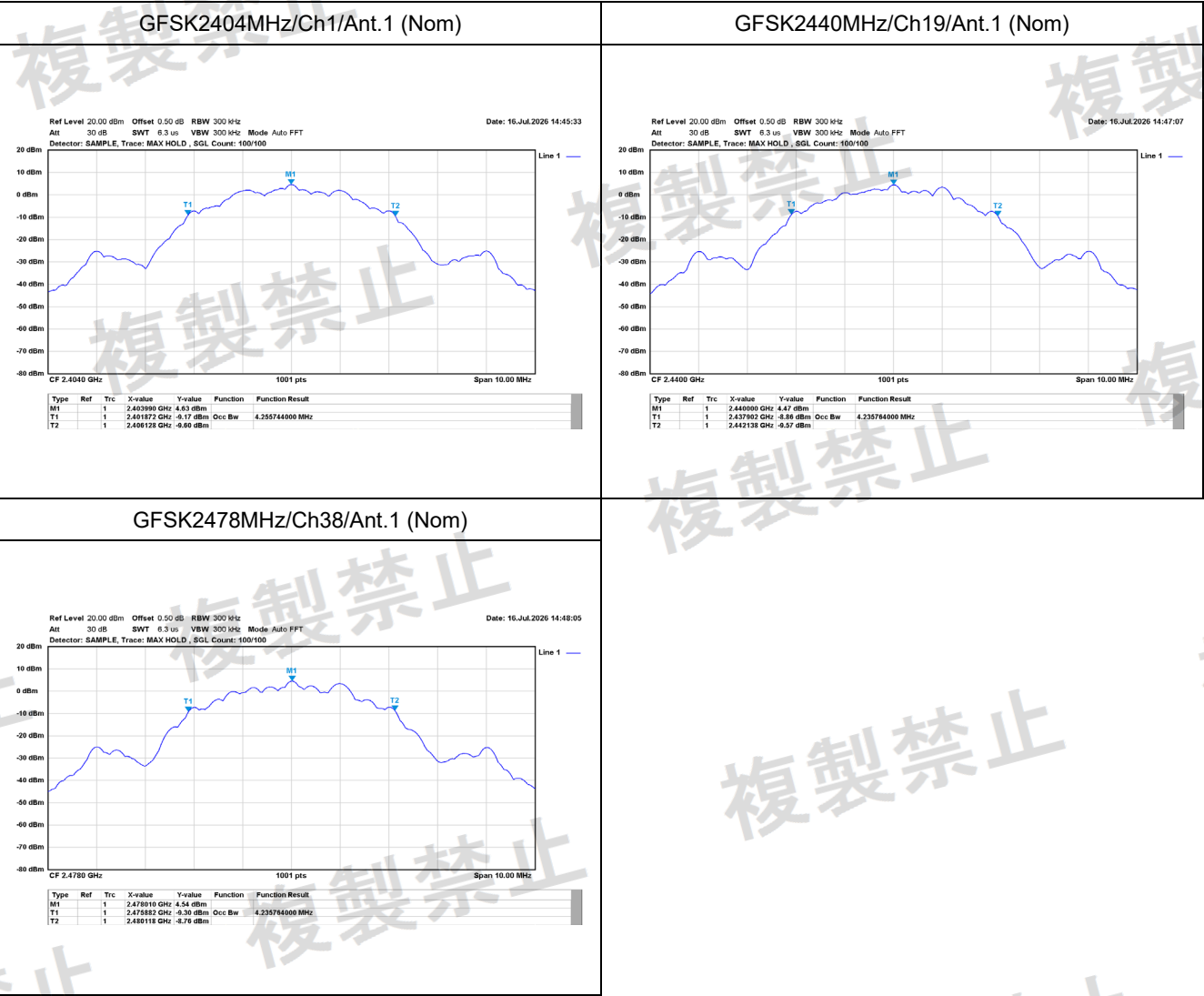
E.I.R.P.

Test Conditions	Modulation	Frequency (MHz)	Antenna Power (dBm)	Maximum Antenna Gain (dBi)	E.I.R.P. (dBm)	Limit (dBm)	Result
V _{nom}	GFSK (4Mbps)	2404	5.63	3.24	8.87	12.14	Pass
		2440	5.71	3.24	8.95	12.14	Pass
		2478	5.82	3.24	9.06	12.14	Pass

Note: E.I.R.P. (dBm) = Antenna Power (dBm) + Maximum Antenna Gain (dBi).

Appendix B. Test Result of Occupied Bandwidth

Test Conditions	Modulation	Frequency (MHz)	Occupied Bandwidth (MHz)	Limit (MHz)	Result
V _{nom}	GFSK (4Mbps)	2404	4.26	≤ 26.00	Pass
		2440	4.24	≤ 26.00	Pass
		2478	4.24	≤ 26.00	Pass



Appendix C. Test Result of Frequency Tolerance

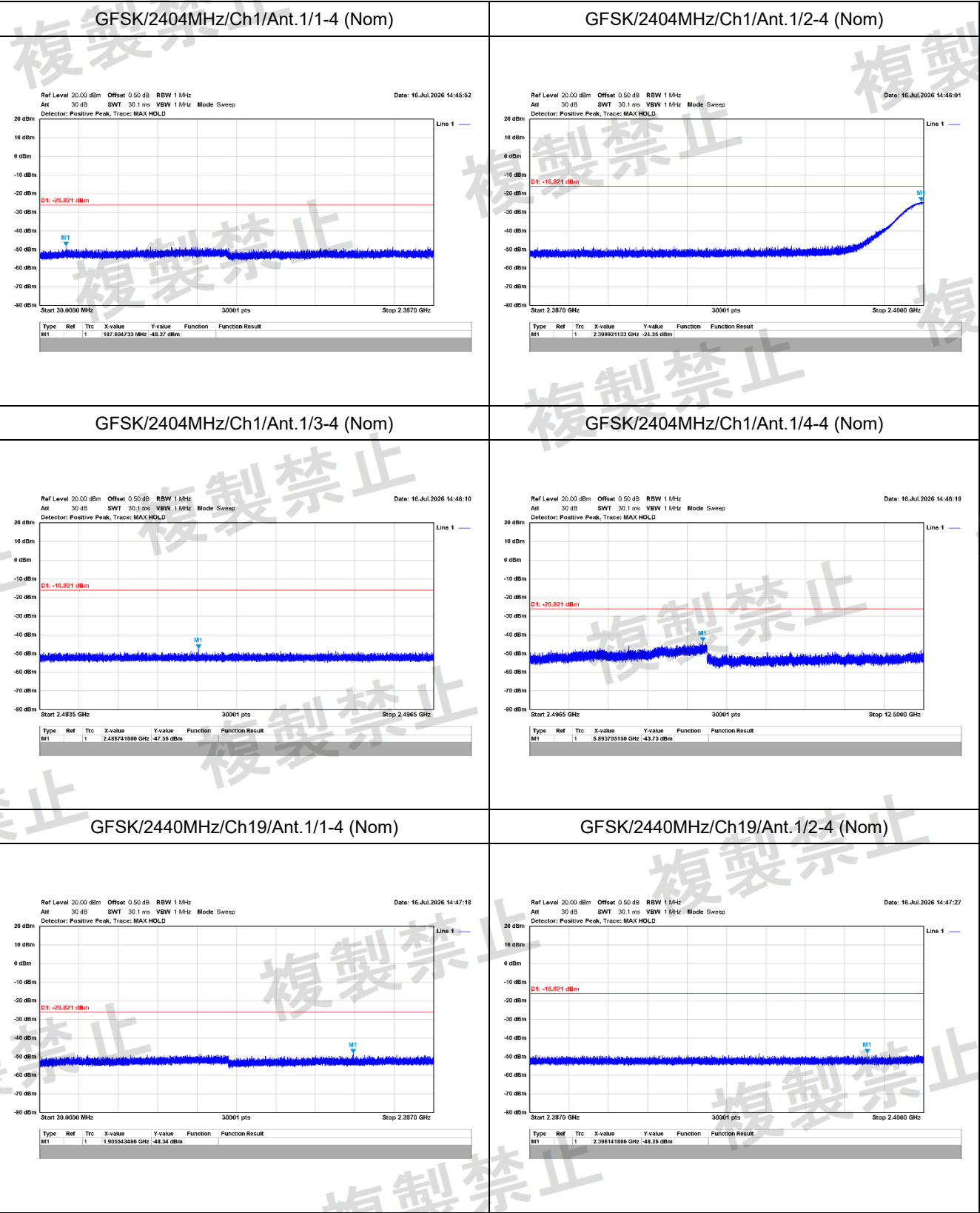
Test Conditions	Modulation	Frequency (MHz)	Reading Value (MHz)	Frequency Tolerance (ppm)	Limit (ppm)	Result
V _{nom}	GFSK (4Mbps)	2404	2403.9970	-1.25	± 50	Pass
		2440	2439.9970	-1.23	± 50	Pass
		2478	2477.9970	-1.21	± 50	Pass

Appendix D. Test Result of Unwanted Emission Strength

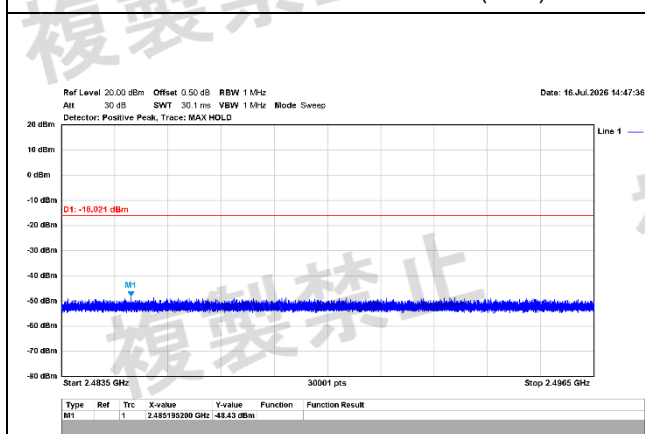
Test Conditions	Modulation	Frequency (MHz)	Frequency Range (MHz)	Measurement Frequency (MHz)
V _{nom}	GFSK	2404	30 ~ 2387	187.604733
			2387 ~ 2400	2399.921133
			2483.5 ~ 2496.5	2488.741600
			2496.5 ~ 12500	6893.705150
	GFSK	2440	30 ~ 2387	1905.543467
			2387 ~ 2400	2398.141867
			2483.5 ~ 2496.5	2485.195200
			2496.5 ~ 12500	6918.713900
	GFSK	2478	30 ~ 2387	1123.883700
			2387 ~ 2400	2392.305300
			2483.5 ~ 2496.5	2483.524700
			2496.5 ~ 12500	6964.063100

Test Conditions	Modulation	Frequency (MHz)	Frequency Range (MHz)	Measurement Value (μW/MHz)	Limit (μW/MHz)	Result
V _{nom}	GFSK (4Mbps)	2404	30 ~ 2387	0.01489	2.50000	Pass
			2387 ~ 2400	3.67282	25.00000	Pass
			2483.5 ~ 2496.5	0.01754	25.00000	Pass
			2496.5 ~ 12500	0.04236	2.50000	Pass
		2440	30 ~ 2387	0.01466	2.50000	Pass
			2387 ~ 2400	0.01493	25.00000	Pass
			2483.5 ~ 2496.5	0.01435	25.00000	Pass
			2496.5 ~ 12500	0.04742	2.50000	Pass
		2478	30 ~ 2387	0.01340	2.50000	Pass
			2387 ~ 2400	0.01400	25.00000	Pass
			2483.5 ~ 2496.5	0.09638	25.00000	Pass
			2496.5 ~ 12500	0.04955	2.50000	Pass

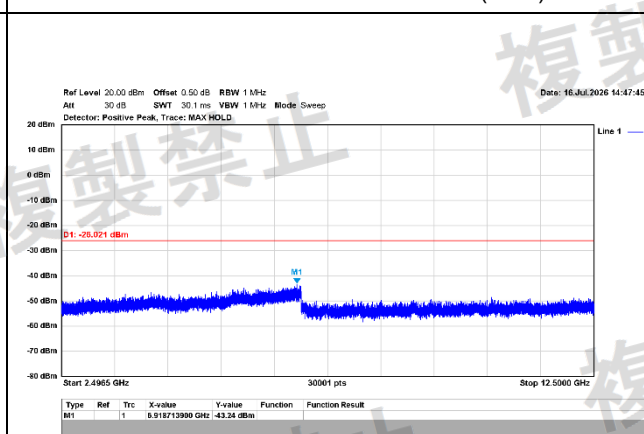
Measurement Value = (Worst value) x (Number of antenna ports).



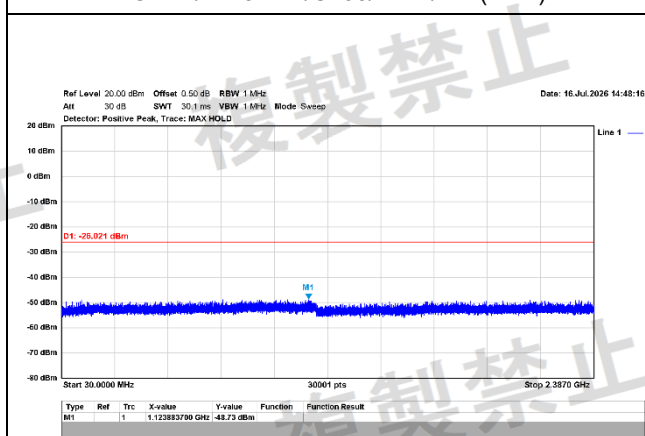
GFSK/2440MHz/Ch19/Ant.1/3-4 (Nom)



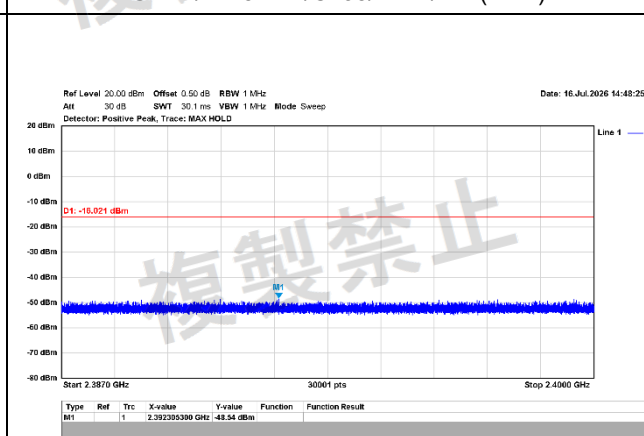
GFSK/2440MHz/Ch19/Ant.1/4-4 (Nom)



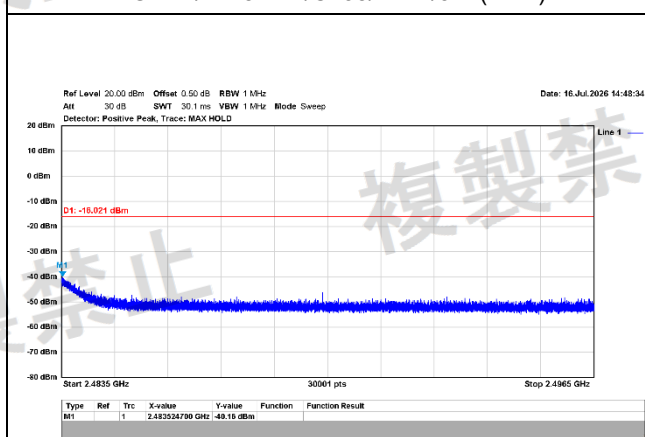
GFSK/2478MHz/Ch38/Ant.1/1-4 (Nom)



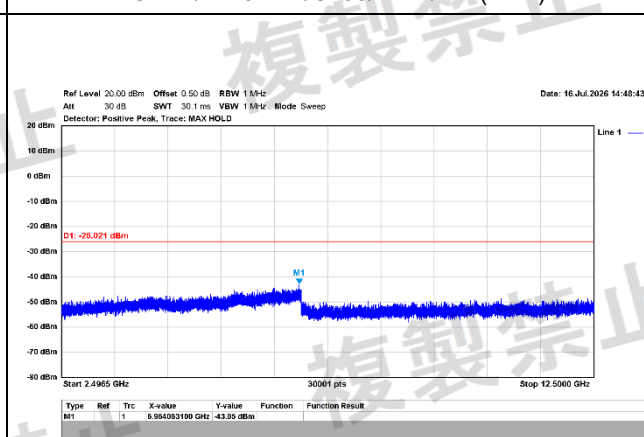
GFSK/2478MHz/Ch38/Ant.1/2-4 (Nom)



GFSK/2478MHz/Ch38/Ant.1/3-4 (Nom)



GFSK/2478MHz/Ch38/Ant.1/4-4 (Nom)

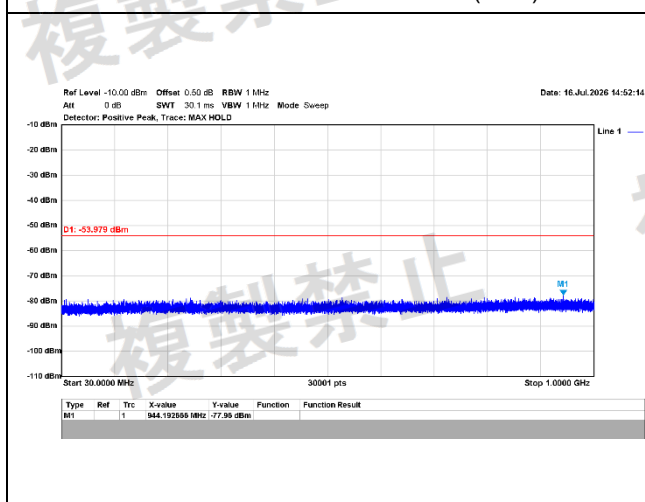


Appendix E. Test Result of Secondary Radiated Emission Strength

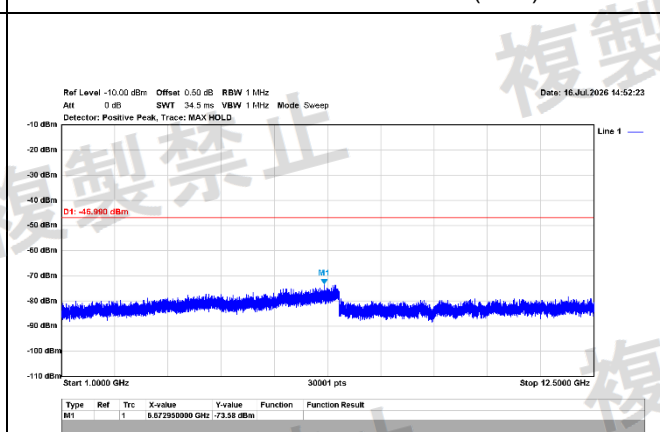
Test Conditions	Modulation	Frequency (MHz)	Frequency Range (MHz)	Measurement Frequency (MHz)
V _{nom}	GFSK (4Mbps)	2404	30 ~ 1000	944.192666
			1000 ~ 12500	6672.950000
		2440	30 ~ 1000	996.766666
			1000 ~ 12500	6286.933333
		2478	30 ~ 1000	785.953333
			1000 ~ 12500	6687.516667

Test Conditions	Modulation	Frequency (MHz)	Frequency Range (MHz)	Measurement Value (nW)	Limit (nW)	Result
V _{nom}	GFSK (4Mbps)	2404	30 ~ 1000	0.01600	4.00000	Pass
			1000 ~ 12500	0.04385	20.00000	Pass
		2440	30 ~ 1000	0.01455	4.00000	Pass
			1000 ~ 12500	0.04150	20.00000	Pass
		2478	30 ~ 1000	0.01578	4.00000	Pass
			1000 ~ 12500	0.04093	20.00000	Pass

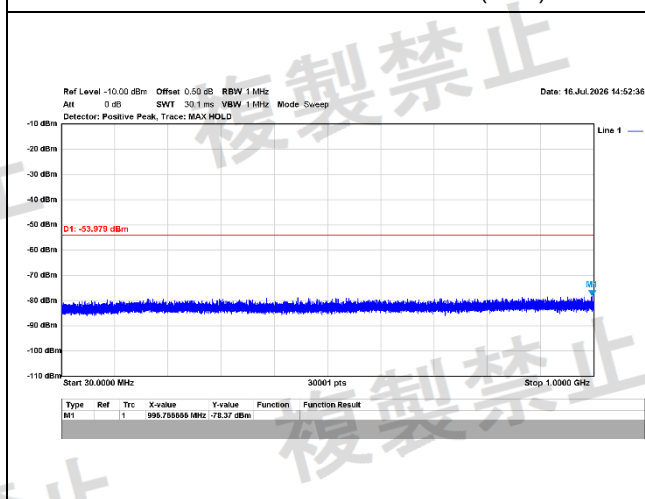
GFSK/2404MHz/Ch1/Ant.1/1-2 (Nom)



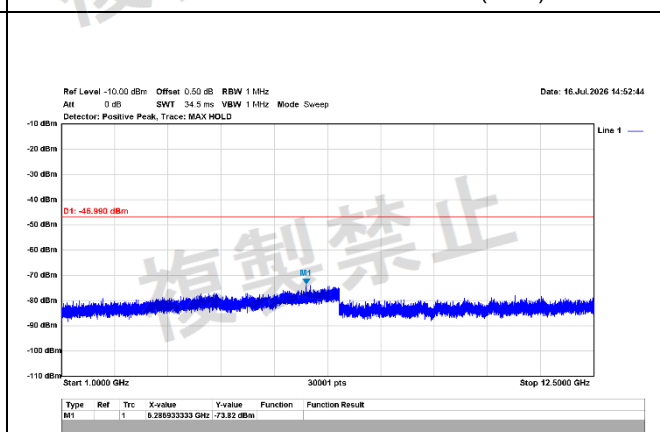
GFSK/2404MHz/Ch1/Ant.1/2-2 (Nom)



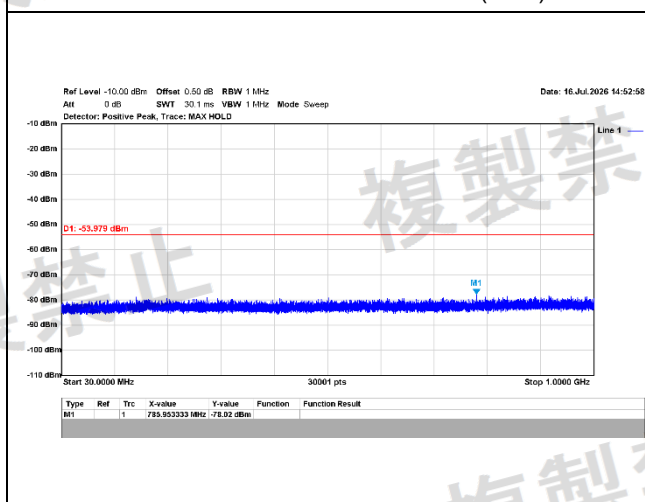
GFSK/2440MHz/Ch19/Ant.1/1-2 (Nom)



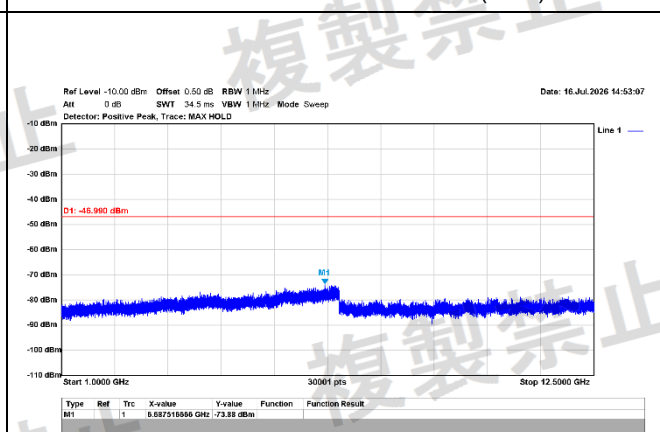
GFSK/2440MHz/Ch19/Ant.1/2-2 (Nom)



GFSK/2478MHz/Ch38/Ant.1/1-2 (Nom)



GFSK/2478MHz/Ch38/Ant.1/2-2 (Nom)

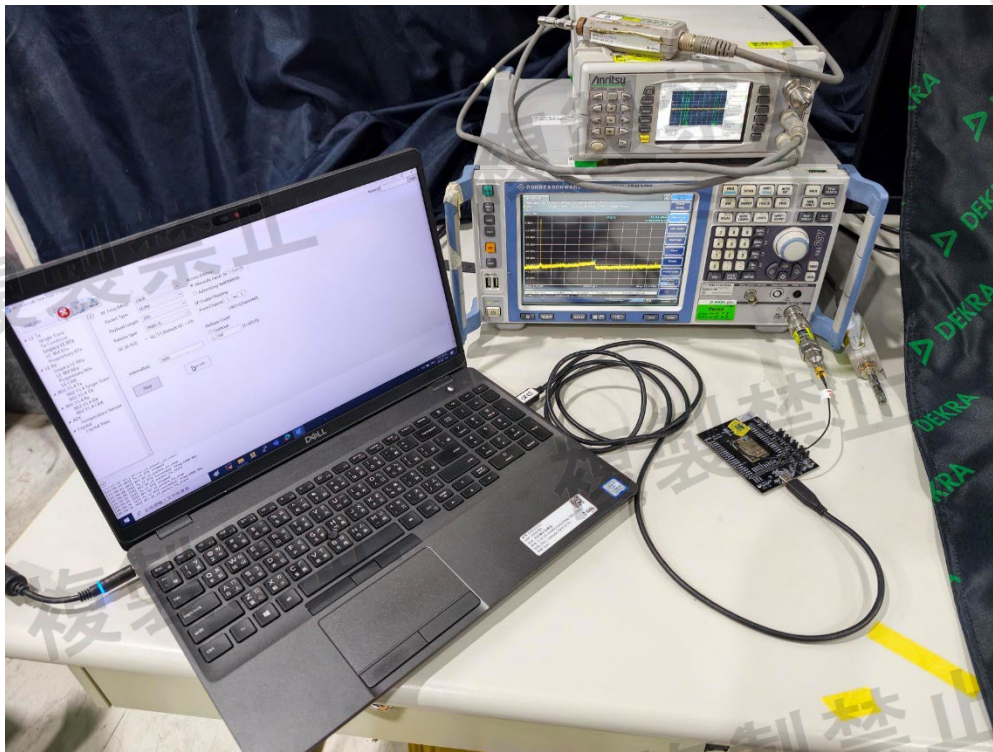


Appendix F. Test Result of Interference Prevention Function

Test Mode	Test Result
Normal Link	Pass

Appendix G. Test Result of Test Setup Photograph

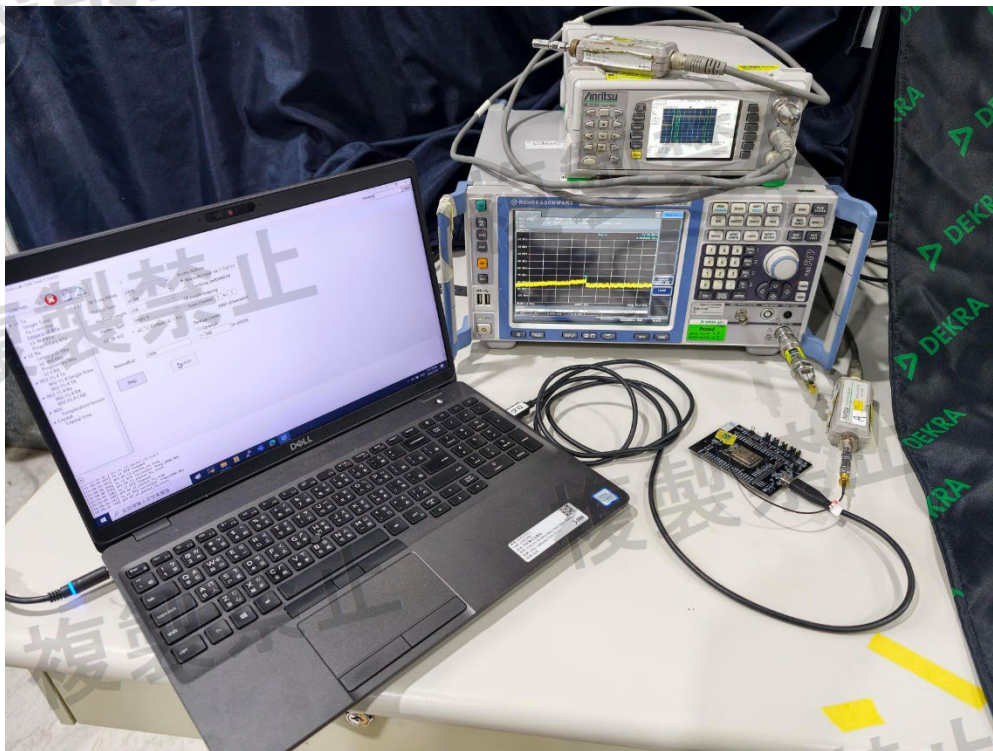
Description: Test Setup (Spectrum Analyzer)



Description: Test Setup (Spectrum Analyzer)



Description: Test Setup (Power Meter)



Description: Test Setup (Power Meter)

