

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 (1Mbps)	2402	5.62	3.6475	10.0000	Pass
		2440	5.73	3.7411	10.0000	Pass
		2480	5.82	3.8194	10.0000	Pass
	GFSK (2Mbps)	2404	5.59	3.6224	10.0000	Pass
		2440	5.68	3.6983	10.0000	Pass
		2478	5.76	3.7670	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 (1Mbps)	2402	3.8194	3.6475	-4.50	+20	Pass
		2440	3.8194	3.7411	-2.05	+20	Pass
		2480	3.8194	3.8194	0.00	+20	Pass
	GFSK (2Mbps)	2404	3.7670	3.6224	-3.84	+20	Pass
		2440	3.7670	3.6983	-1.82	+20	Pass
		2478	3.7670	3.7670	0.00	+20	Pass

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

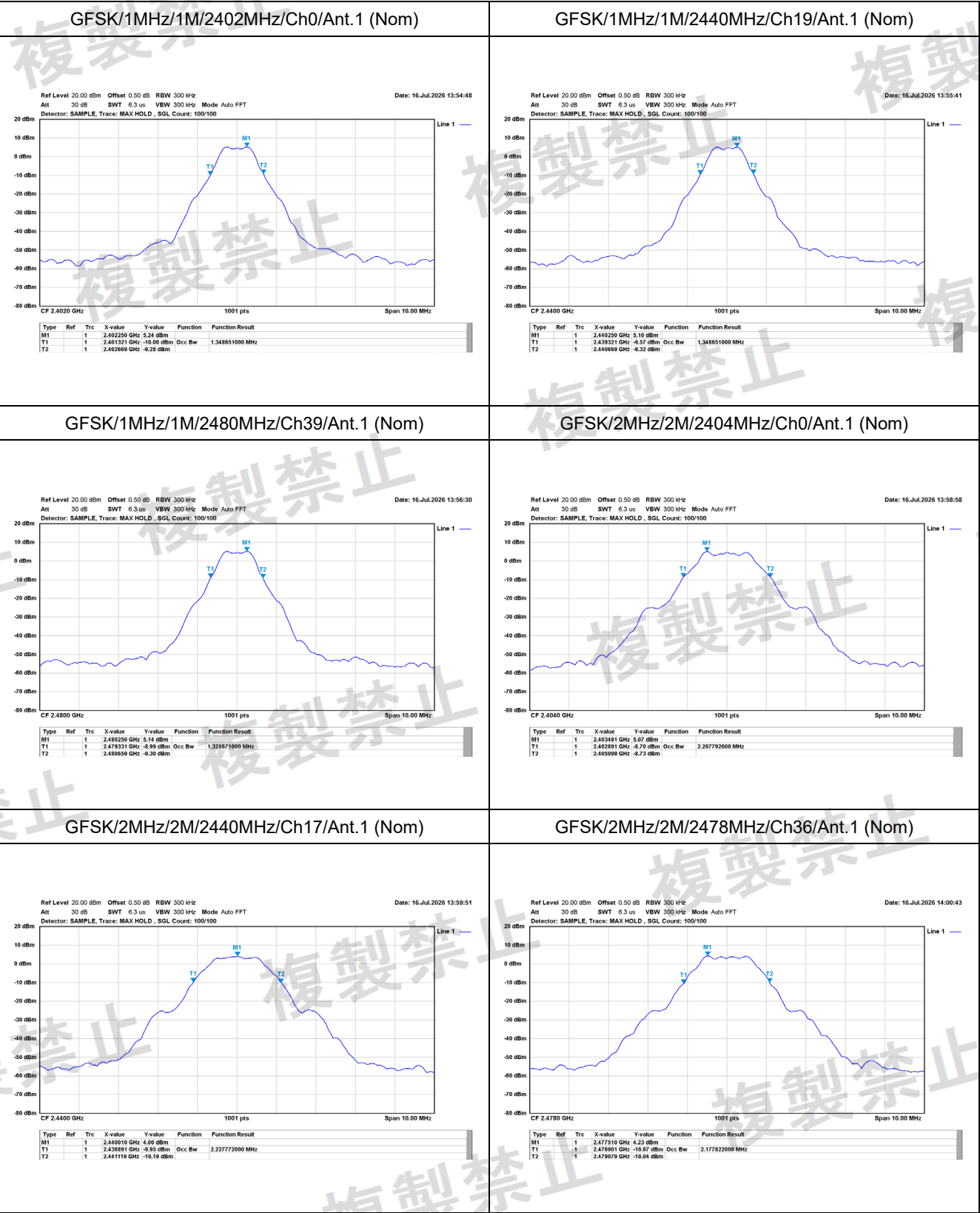
E.I.R.P.

Test Conditions	Modulation	Frequency (MHz)	Antenna Power (dBm)	Maximum Antenna Gain (dBi)	E.I.R.P. (dBm)	Limit (dBm)	Result
V _{nom}	GFSK (1Mbps)	2402	5.62	3.24	8.86	12.14	Pass
		2440	5.73	3.24	8.97	12.14	Pass
		2480	5.82	3.24	9.06	12.14	Pass
	GFSK (2Mbps)	2404	5.59	3.24	8.83	12.14	Pass
		2440	5.68	3.24	8.92	12.14	Pass
		2478	5.76	3.24	9.00	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 (1Mbps)	2402	1.35	≤ 26.00	Pass
		2440	1.35	≤ 26.00	Pass
		2480	1.33	≤ 26.00	Pass
	GFSK (2Mbps)	2404	2.21	≤ 26.00	Pass
		2440	2.23	≤ 26.00	Pass
		2478	2.18	≤ 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 (1Mbps)	2402	2401.9973	-1.12	± 50	Pass
		2440	2439.9973	-1.11	± 50	Pass
		2480	2479.9970	-1.21	± 50	Pass
	GFSK (2Mbps)	2404	2403.9973	-1.12	± 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}		2402	30 ~ 2387	2354.944800
			2387 ~ 2400	2399.981800
			2483.5 ~ 2496.5	2490.243100
			2496.5 ~ 12500	6424.874450
	GFSK (1Mbps)	2440	30 ~ 2387	706.459000
			2387 ~ 2400	2391.824300
			2483.5 ~ 2496.5	2487.704633
			2496.5 ~ 12500	6616.941650
		2480	30 ~ 2387	284.870266
			2387 ~ 2400	2390.901733
			2483.5 ~ 2496.5	2483.688500
			2496.5 ~ 12500	6722.645300
	GFSK (2Mbps)	2404	30 ~ 2387	1946.398133
			2387 ~ 2400	2399.933700
			2483.5 ~ 2496.5	2494.179500
			2496.5 ~ 12500	6333.175700

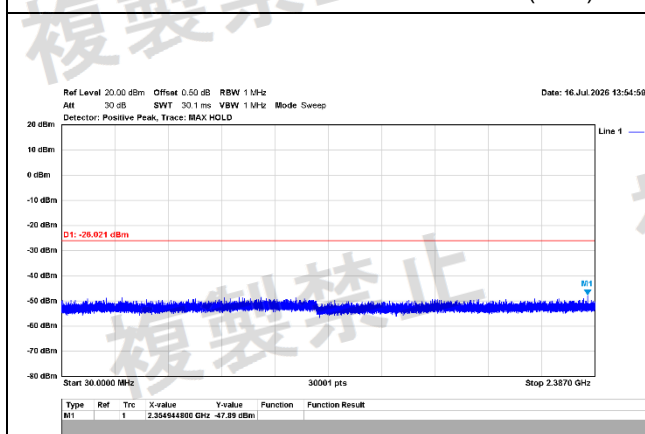
	2440	30 ~ 2387	890.383566
		2387 ~ 2400	2392.916733
		2483.5 ~ 2496.5	2491.286567
		2496.5 ~ 12500	6962.395850
	2478	30 ~ 2387	854.635733
		2387 ~ 2400	2397.923900
		2483.5 ~ 2496.5	2483.507800
		2496.5 ~ 12500	6923.715650

Test Conditions	Modulation	Frequency (MHz)	Frequency Range (MHz)	Measurement Value ($\mu\text{W}/\text{MHz}$)	Limit ($\mu\text{W}/\text{MHz}$)	Result
V_{nom}	GFSK (1Mbps)	2402	30 ~ 2387	0.01626	2.50000	Pass
			2387 ~ 2400	3.13329	25.00000	Pass
			2483.5 ~ 2496.5	0.01750	25.00000	Pass
			2496.5 ~ 12500	0.03776	2.50000	Pass
		2440	30 ~ 2387	0.01614	2.50000	Pass
			2387 ~ 2400	0.01542	25.00000	Pass
			2483.5 ~ 2496.5	0.01622	25.00000	Pass
			2496.5 ~ 12500	0.04477	2.50000	Pass
		2480	30 ~ 2387	0.01531	2.50000	Pass
			2387 ~ 2400	0.01600	25.00000	Pass
			2483.5 ~ 2496.5	0.02449	25.00000	Pass
			2496.5 ~ 12500	0.04753	2.50000	Pass
	GFSK (2Mbps)	2404	30 ~ 2387	0.01560	2.50000	Pass
			2387 ~ 2400	0.02535	25.00000	Pass
			2483.5 ~ 2496.5	0.01592	25.00000	Pass
			2496.5 ~ 12500	0.04375	2.50000	Pass
		2440	30 ~ 2387	0.01679	2.50000	Pass

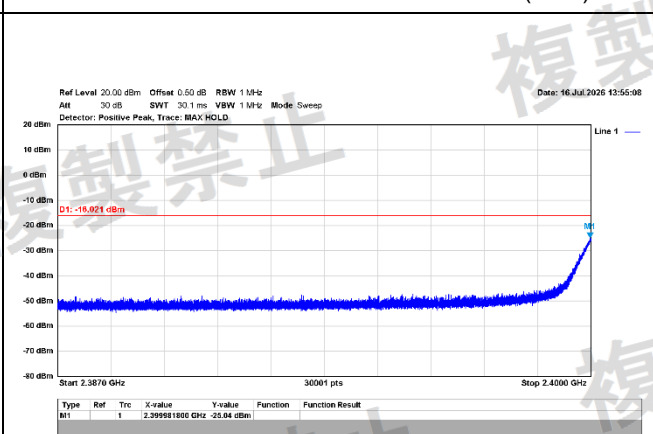
			2387 ~ 2400	0.01600	25.00000	Pass
			2483.5 ~ 2496.5	0.01535	25.00000	Pass
			2496.5 ~ 12500	0.04786	2.50000	Pass
		2478	30 ~ 2387	0.01419	2.50000	Pass
			2387 ~ 2400	0.01486	25.00000	Pass
			2483.5 ~ 2496.5	0.02673	25.00000	Pass
			2496.5 ~ 12500	0.04345	2.50000	Pass

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

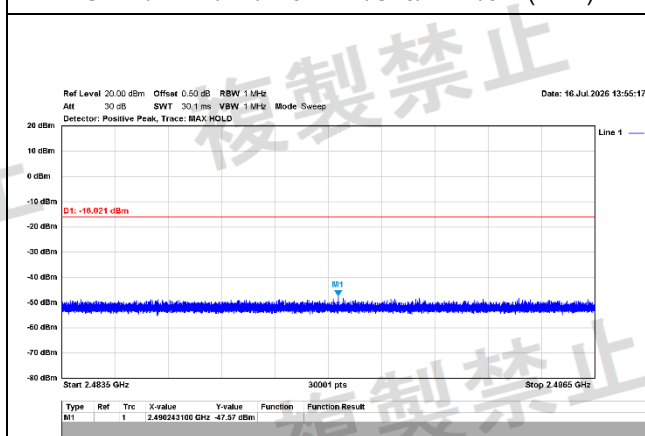
GFSK/1MHz/1M/2402MHz/Ch0/Ant. 1/1-4 (Nom)



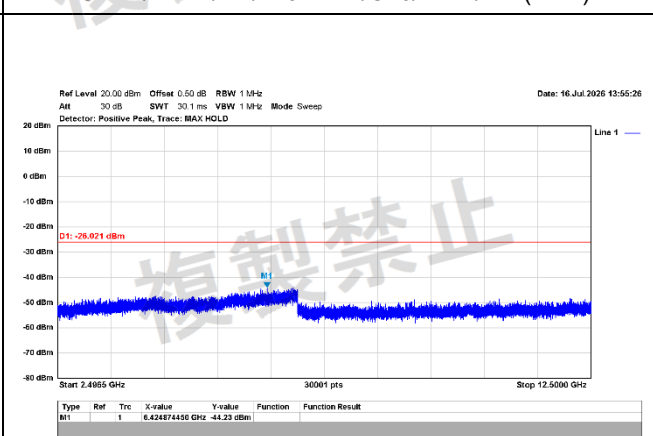
GFSK/1MHz/1M/2402MHz/Ch0/Ant. 1/2-4 (Nom)



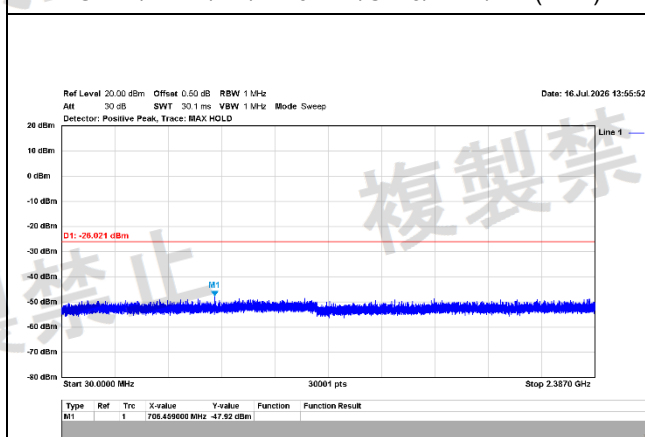
GFSK/1MHz/1M/2402MHz/Ch0/Ant. 1/3-4 (Nom)



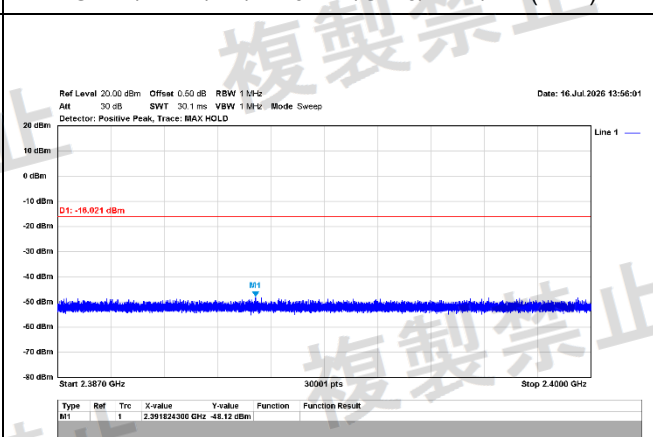
GFSK/1MHz/1M/2402MHz/Ch0/Ant. 1/4-4 (Nom)



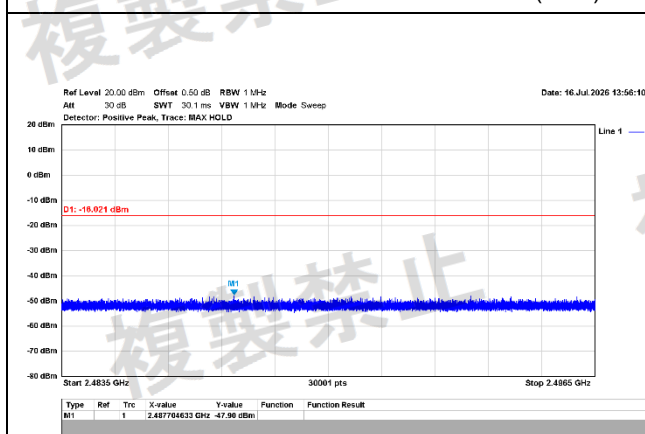
GFSK/1MHz/1M/2440MHz/Ch19/Ant. 1/1-4 (Nom)



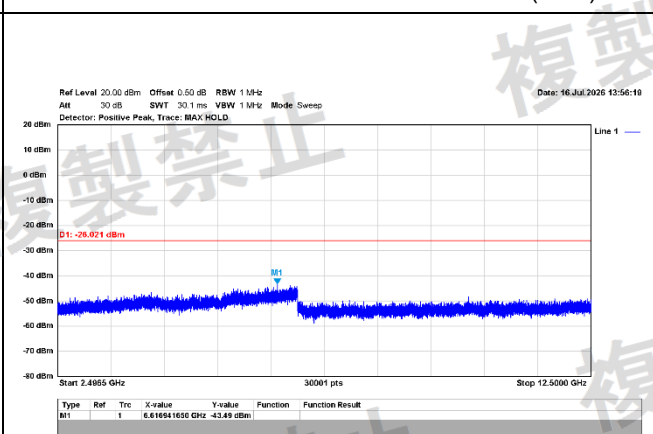
GFSK/1MHz/1M/2440MHz/Ch19/Ant. 1/2-4 (Nom)



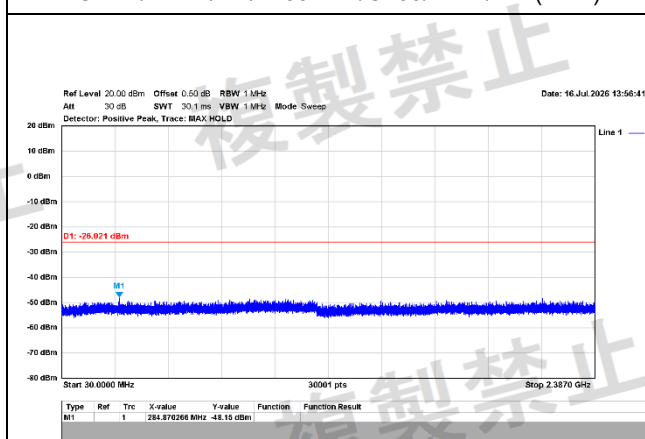
GFSK/1MHz/1M/2440MHz/Ch19/Ant.1/3-4 (Nom)



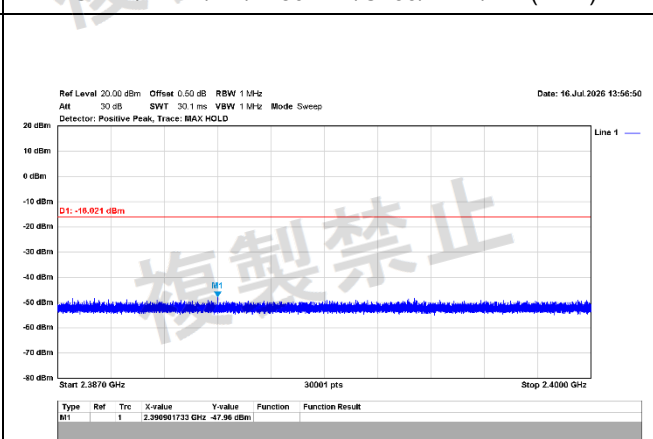
GFSK/1MHz/1M/2440MHz/Ch19/Ant.1/4-4 (Nom)



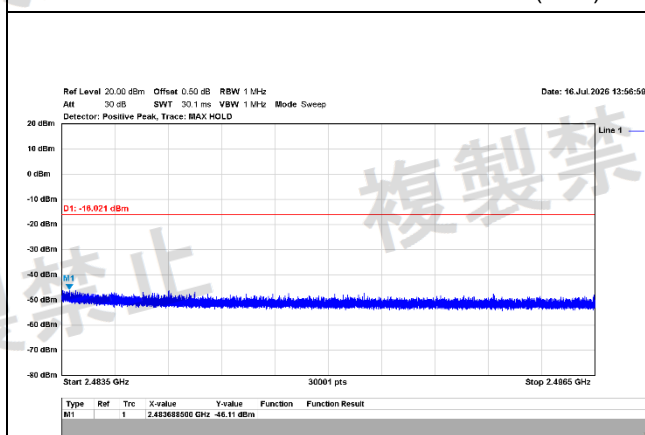
GFSK/1MHz/1M/2480MHz/Ch39/Ant.1/1-4 (Nom)



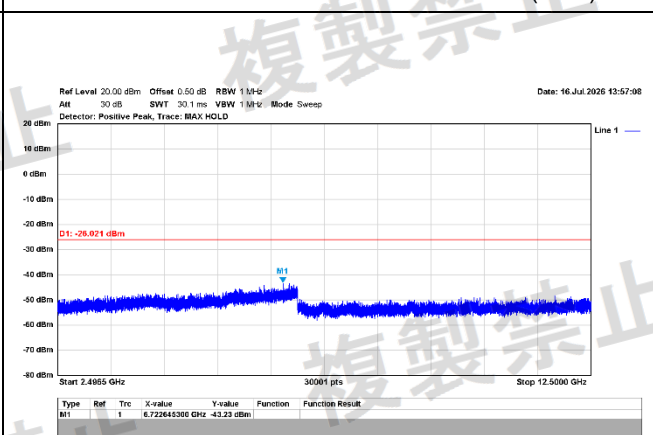
GFSK/1MHz/1M/2480MHz/Ch39/Ant.1/2-4 (Nom)



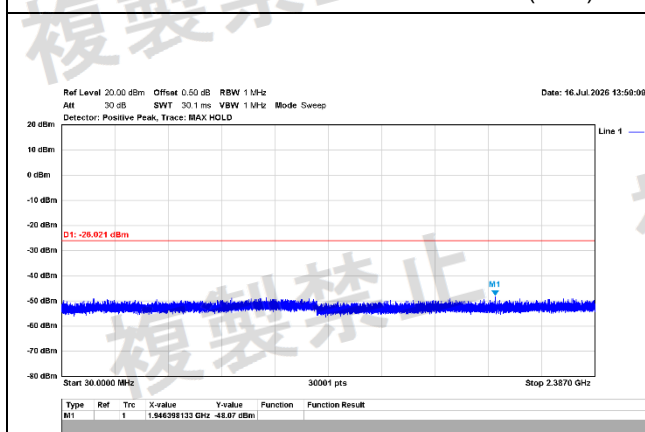
GFSK/1MHz/1M/2480MHz/Ch39/Ant.1/3-4 (Nom)



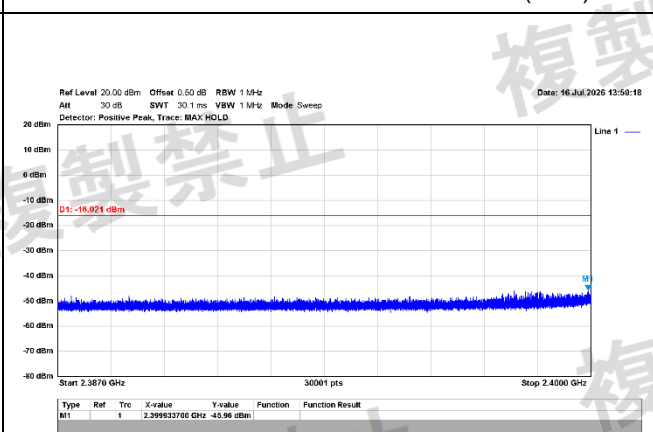
GFSK/1MHz/1M/2480MHz/Ch39/Ant.1/4-4 (Nom)



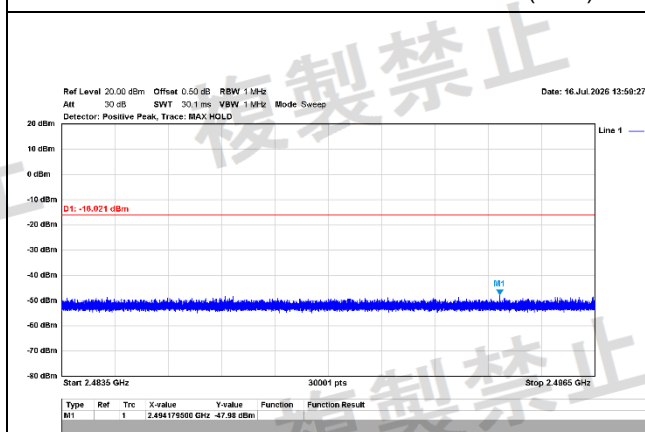
GFSK/2MHz/2M/2404MHz/Ch1/Ant.1/1-4 (Nom)



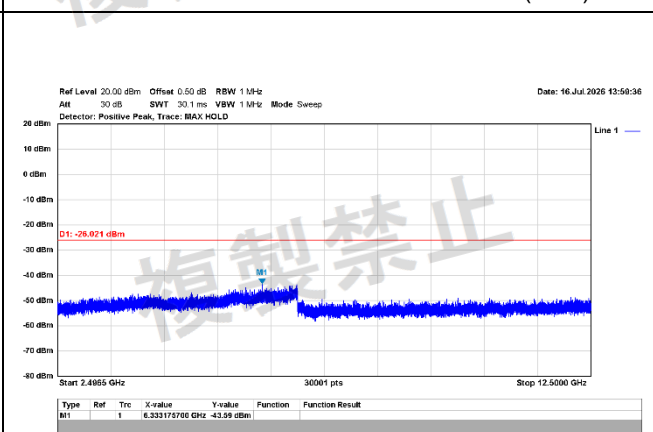
GFSK/2MHz/2M/2404MHz/Ch1/Ant.1/2-4 (Nom)



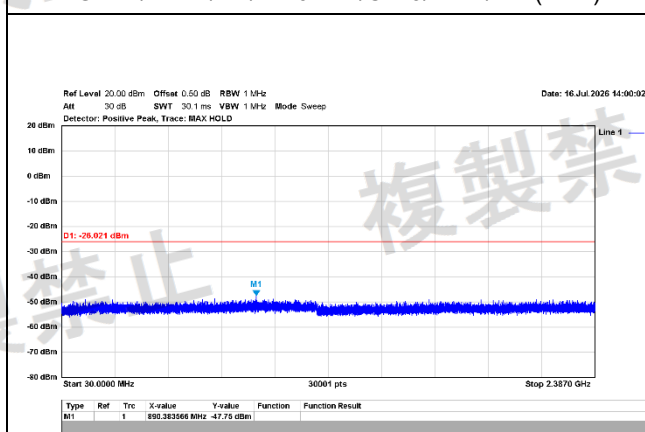
GFSK/2MHz/2M/2404MHz/Ch1/Ant.1/3-4 (Nom)



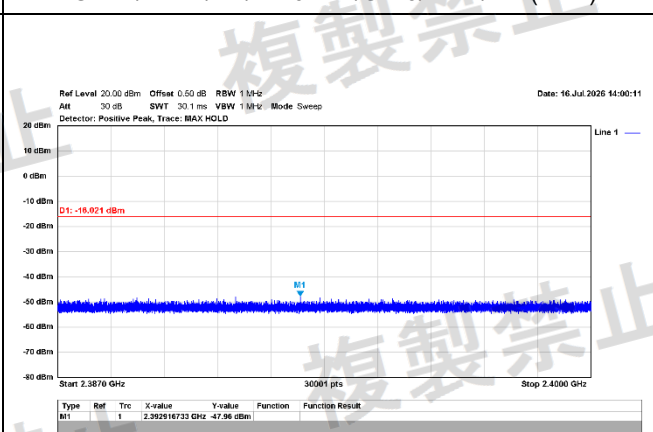
GFSK/2MHz/2M/2404MHz/Ch1/Ant.1/4-4 (Nom)



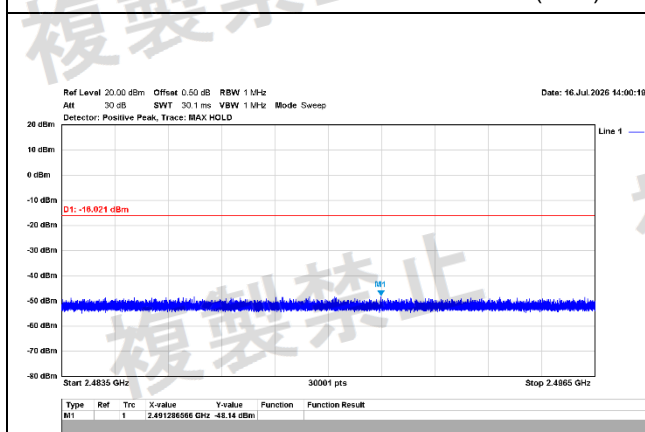
GFSK/2MHz/2M/2440MHz/Ch19/Ant.1/1-4 (Nom)



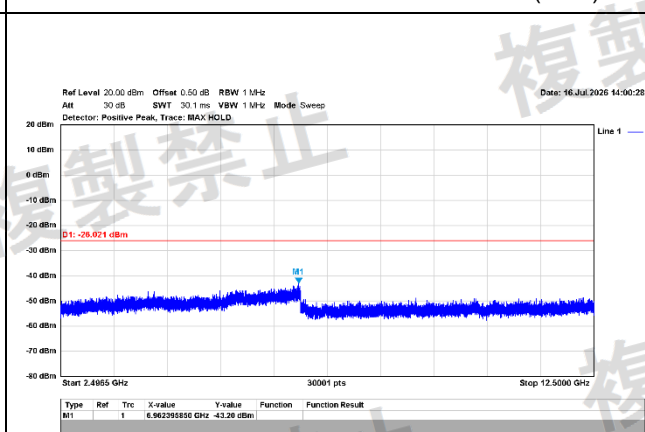
GFSK/2MHz/2M/2440MHz/Ch19/Ant.1/2-4 (Nom)



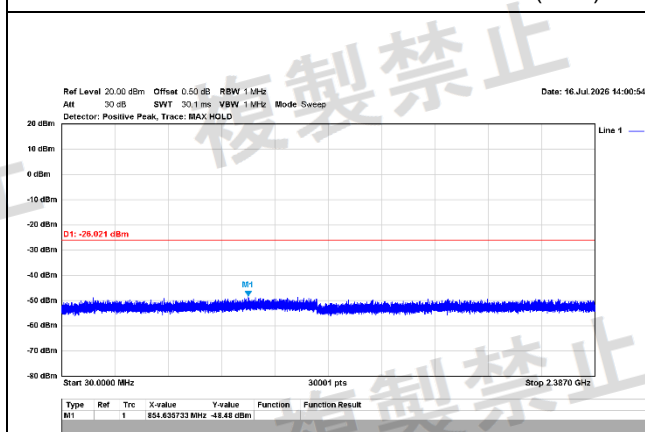
GFSK/2MHz/2M/2440MHz/Ch19/Ant.1/3-4 (Nom)



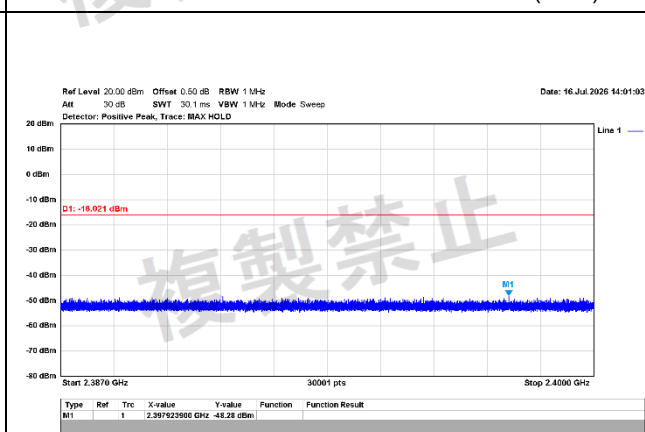
GFSK/2MHz/2M/2440MHz/Ch19/Ant.1/4-4 (Nom)



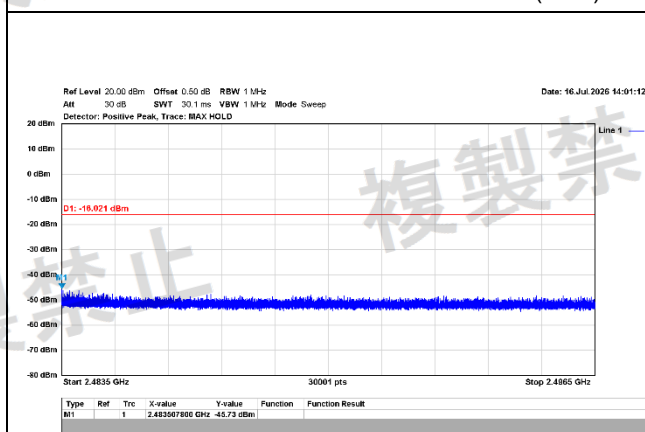
GFSK/2MHz/2M/2478MHz/Ch38/Ant.1/1-4 (Nom)



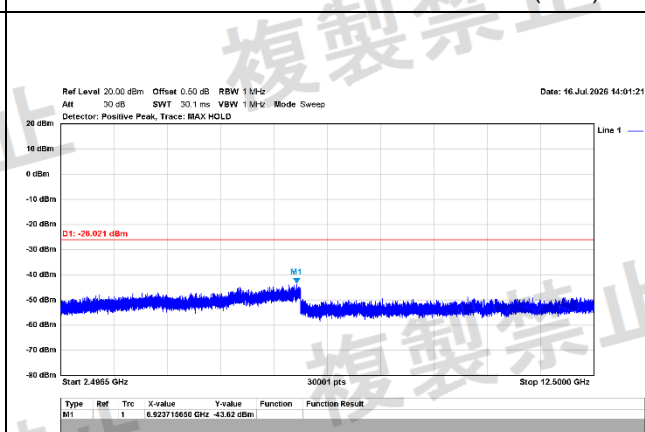
GFSK/2MHz/2M/2478MHz/Ch38/Ant.1/2-4 (Nom)



GFSK/2MHz/2M/2478MHz/Ch38/Ant.1/3-4 (Nom)



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

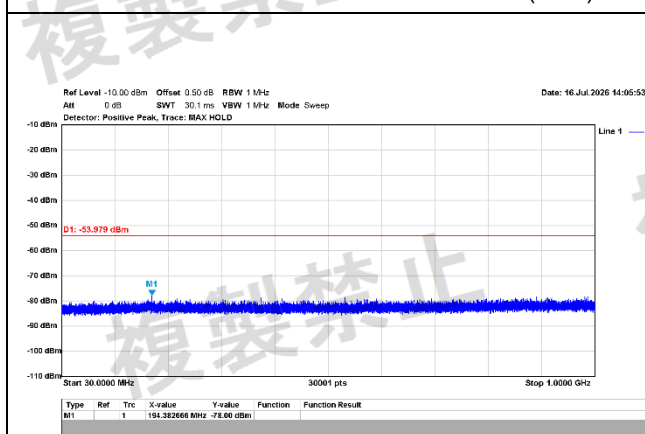


Appendix E. Test Result of Secondary Radiated Emission Strength

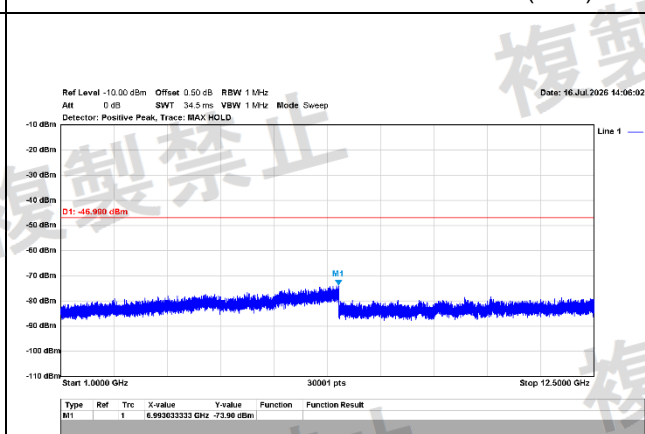
Test Conditions	Modulation	Frequency (MHz)	Frequency Range (MHz)	Measurement Frequency (MHz)
V _{nom}	GFSK (1Mbps)	2402	30 ~ 1000	194.382666
			1000 ~ 12500	6993.033333
		2440	30 ~ 1000	618.757666
			1000 ~ 12500	6975.783333
		2480	30 ~ 1000	918.164333
			1000 ~ 12500	6932.850000
	GFSK (2Mbps)	2404	30 ~ 1000	886.736333
			1000 ~ 12500	6811.333333
		2440	30 ~ 1000	828.245333
			1000 ~ 12500	6871.133333
		2478	30 ~ 1000	886.057333
			1000 ~ 12500	6818.233333

Test Conditions	Modulation	Frequency (MHz)	Frequency Range (MHz)	Measurement Value (nW)	Limit (nW)	Result
V _{nom}	GFSK (1Mbps)	2402	30 ~ 1000	0.01585	4.00000	Pass
			1000 ~ 12500	0.04074	20.00000	Pass
		2440	30 ~ 1000	0.01671	4.00000	Pass
			1000 ~ 12500	0.04467	20.00000	Pass
		2480	30 ~ 1000	0.01521	4.00000	Pass
			1000 ~ 12500	0.03926	20.00000	Pass
	GFSK (2Mbps)	2404	30 ~ 1000	0.01570	4.00000	Pass
			1000 ~ 12500	0.04256	20.00000	Pass
		2440	30 ~ 1000	0.01469	4.00000	Pass
			1000 ~ 12500	0.03864	20.00000	Pass
		2478	30 ~ 1000	0.01567	4.00000	Pass
			1000 ~ 12500	0.04295	20.00000	Pass

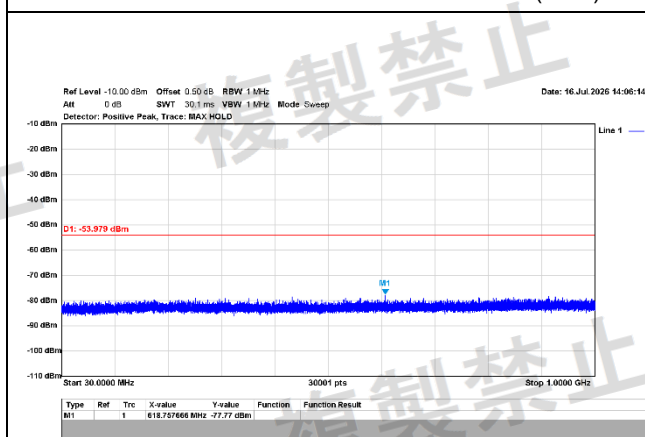
GFSK/1MHz/1M/2402MHz/Ch0/Ant. 1/1-2 (Nom)



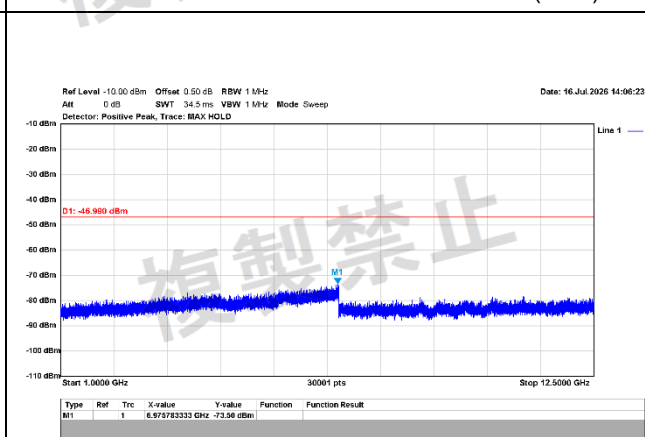
GFSK/1MHz/1M/2402MHz/Ch0/Ant. 1/2-2 (Nom)



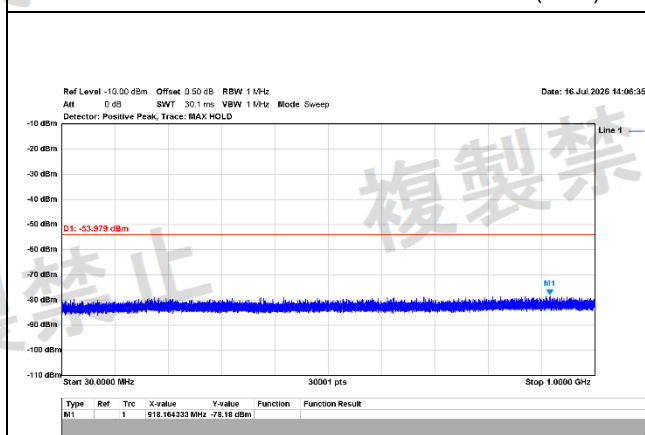
GFSK/1MHz/1M/2440MHz/Ch19/Ant. 1/1-2 (Nom)



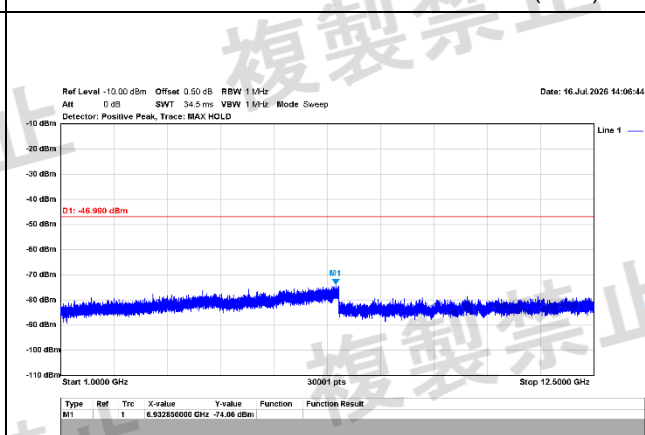
GFSK/1MHz/1M/2440MHz/Ch19/Ant. 1/2-2 (Nom)



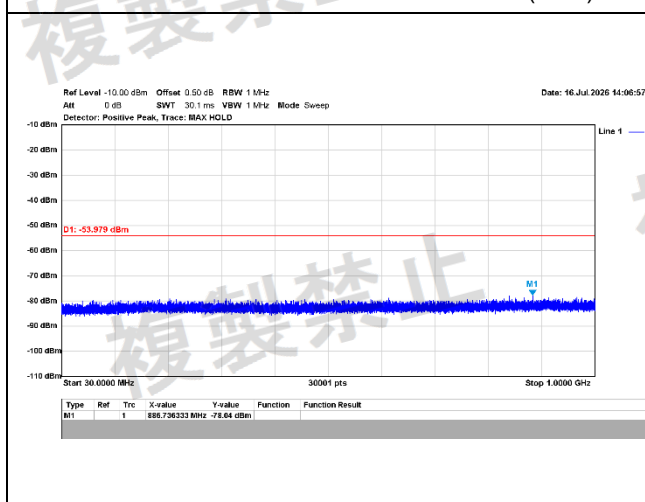
GFSK/1MHz/1M/2480MHz/Ch39/Ant. 1/1-2 (Nom)



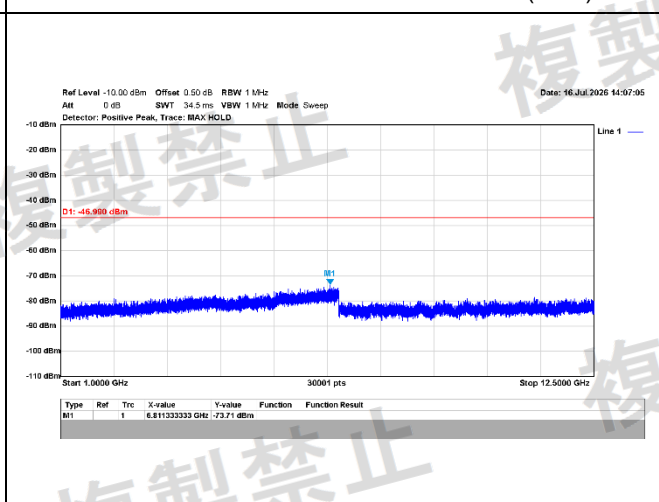
GFSK/1MHz/1M/2480MHz/Ch39/Ant. 1/2-2 (Nom)



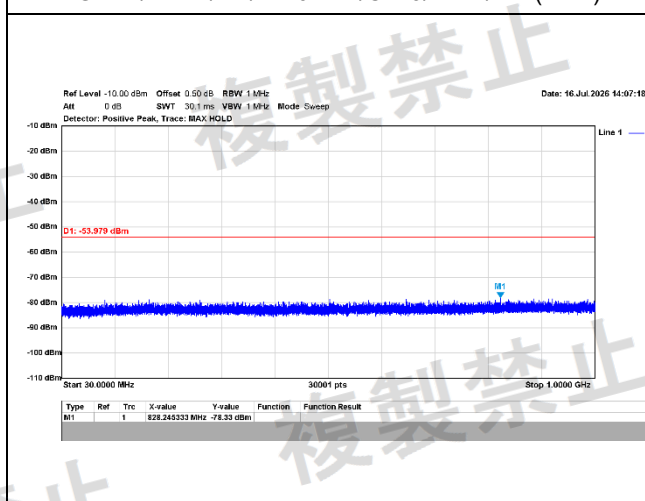
GFSK/2MHz/2M/2404MHz/Ch1/Ant. 1/1-2 (Nom)



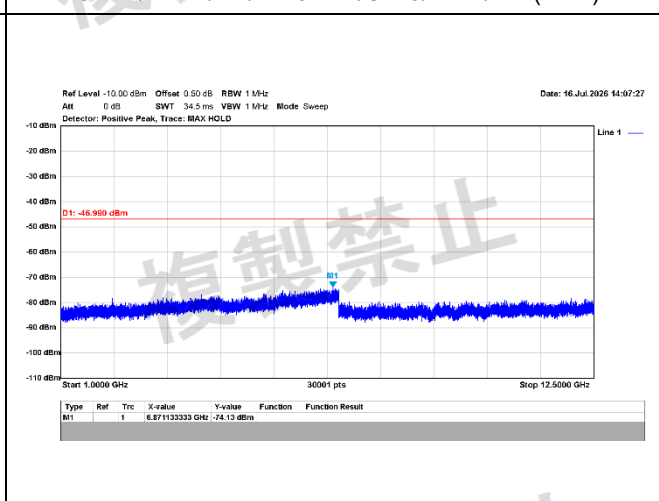
GFSK/2MHz/2M/2404MHz/Ch1/Ant. 1/2-2 (Nom)



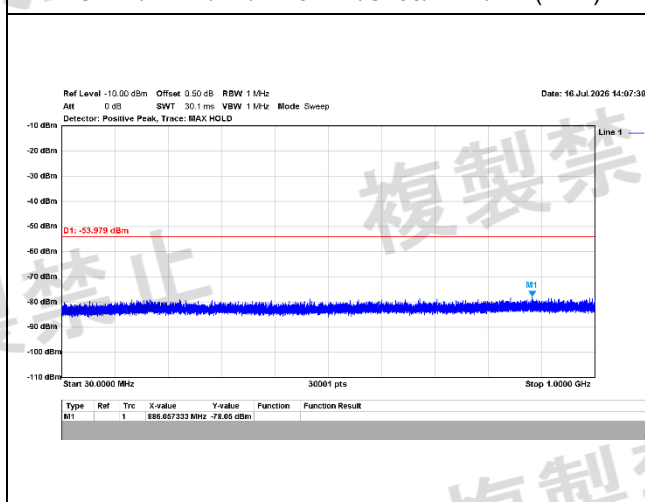
GFSK/2MHz/2M/2440MHz/Ch19/Ant. 1/1-2 (Nom)



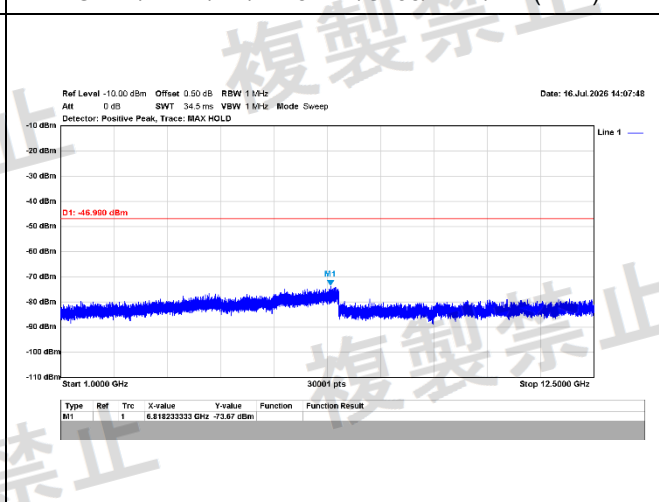
GFSK/2MHz/2M/2440MHz/Ch19/Ant. 1/2-2 (Nom)



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



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

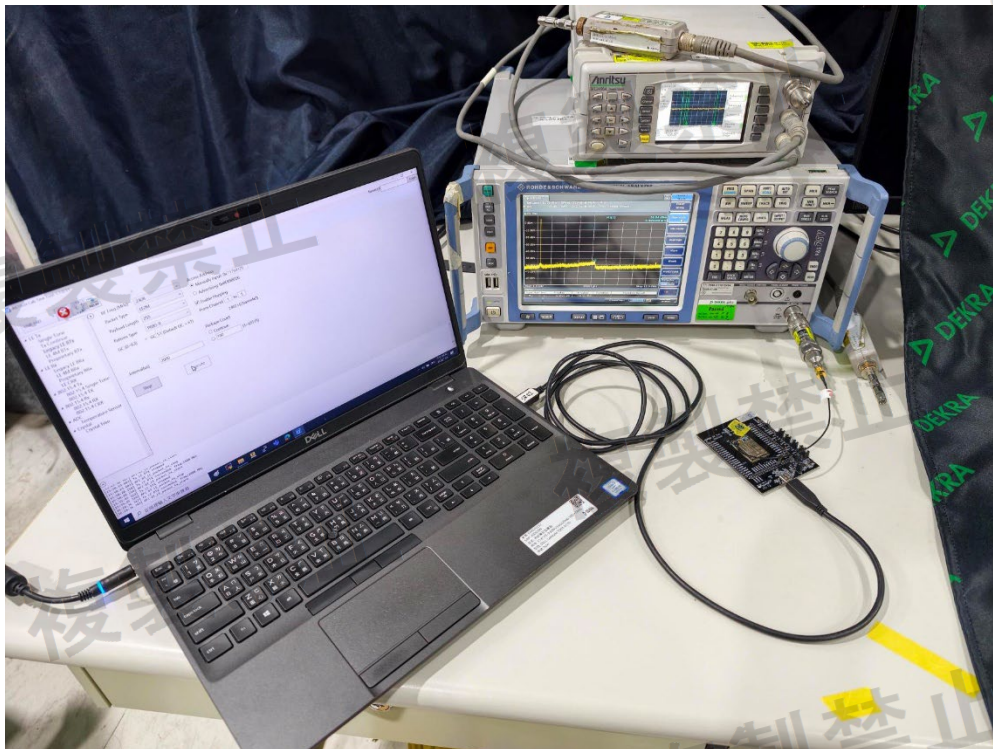


Appendix F. Test Result of Interference Prevention Function

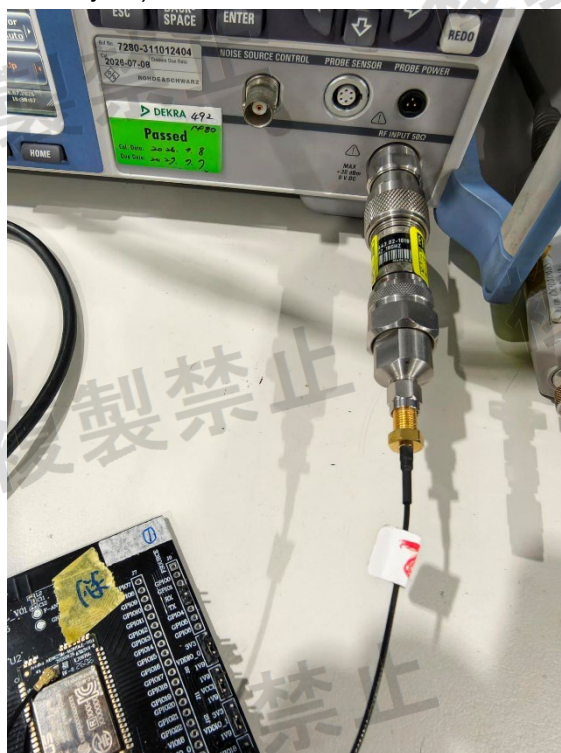
Test Mode	Test Result
Normal Link	Pass

Appendix G. Test Result of Test Setup Photograph

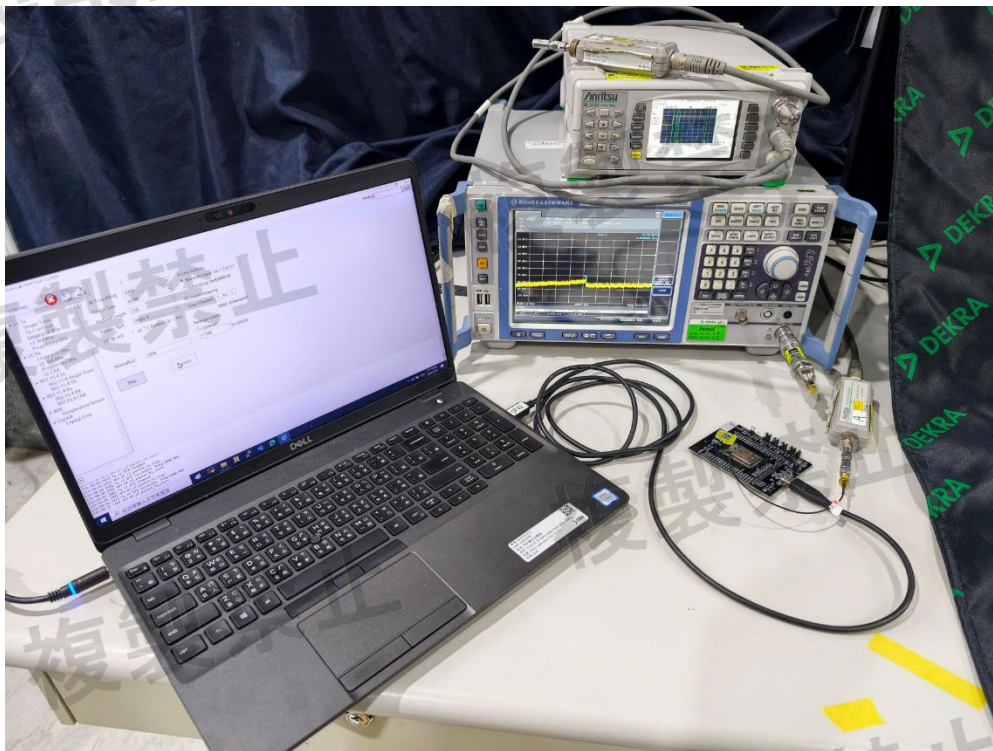
Description: Test Setup (Spectrum Analyzer)



Description: Test Setup (Spectrum Analyzer)



Description: Test Setup (Power Meter)



Description: Test Setup (Power Meter)

