



Appendix A for 2.4GWIFI Test Data

Product Name: 4G Industrial Router

Test Model: F3X26Q

Environmental Conditions

Temperature:	23.9° C
Relative Humidity:	52.9%
ATM Pressure:	100.0 kPa
Test Engineer:	Billy Yu
Supervised by:	Nick Peng



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A.1 Frequency Error

Test Result

TestCondition	TestMode	Antenna	Channel	Result[ppm]	Limit[ppm]	Verdict
NTNV	Frequency Error	Ant1	2412	0.00000	±50	PASS
			2442	0.00000	±50	PASS
			2472	-0.40453	±50	PASS
		Ant1	2422	-0.41288	±50	PASS
			2462	-0.40617	±50	PASS

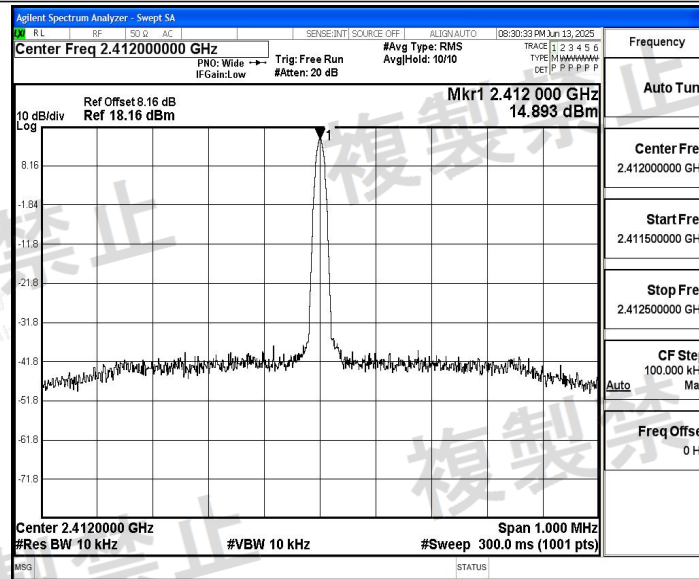


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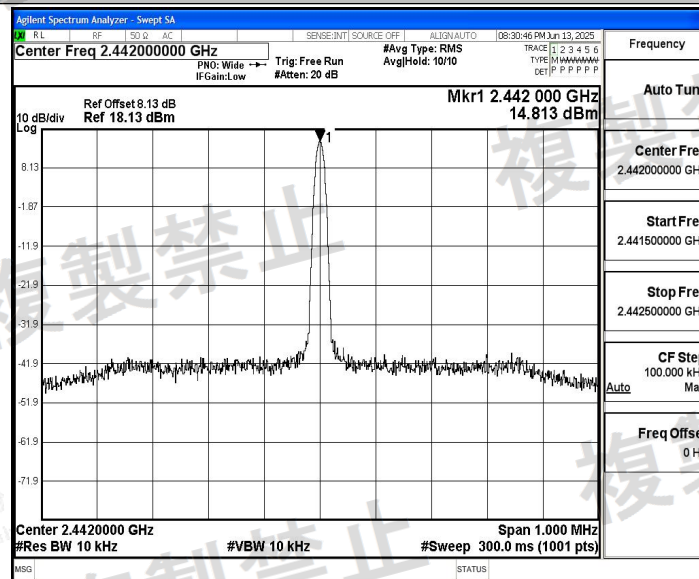


Test Graphs

NTNV_Ant1_2412



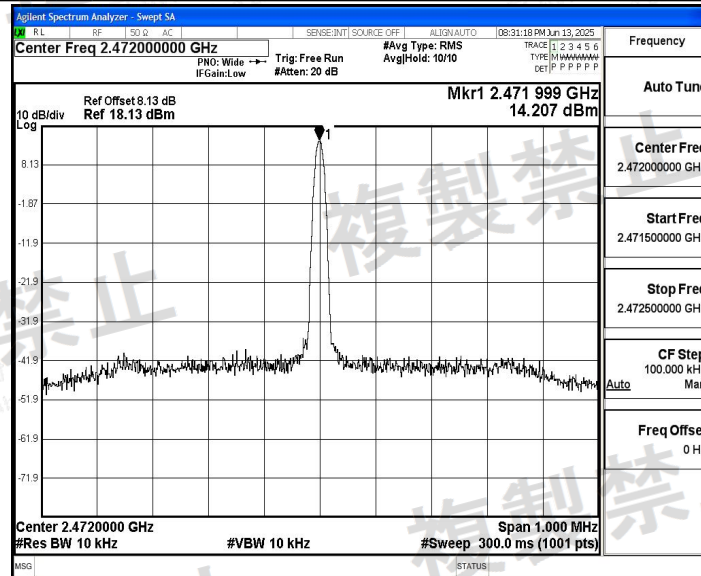
NTNV_Ant1_2442



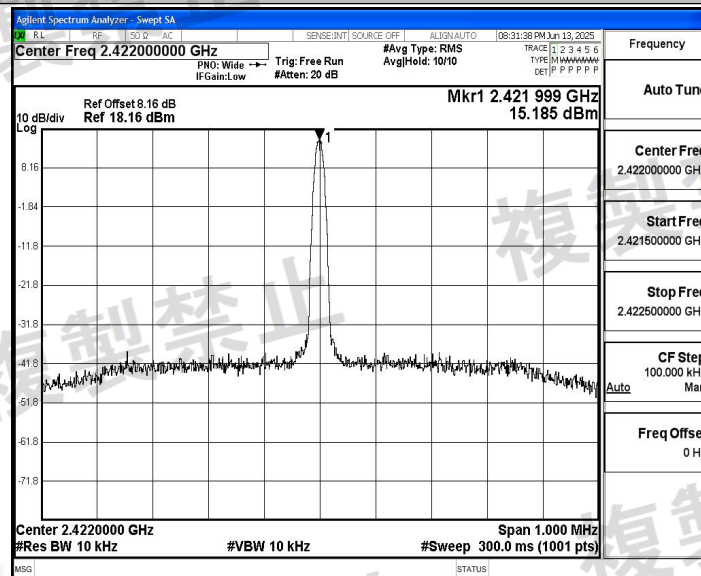
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NTNV_Ant1_2472



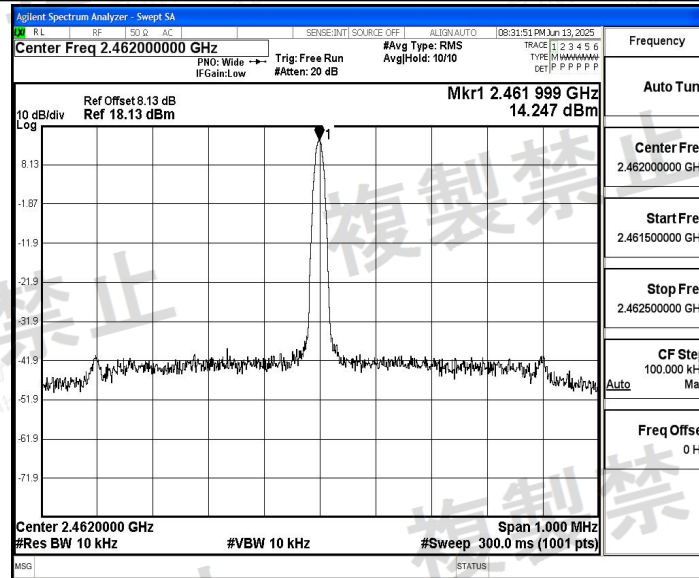
NTNV_Ant1_2422



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NTNV_Ant1_2462



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A.2 Antenna Power & E.I.R.P

Test Result

Antenna Power							
TestCondition	TestMode	Antenna	Channel	Result(dBm/MHz)	Result(mW/MHz)	Limit(mW/MHz)	Verdict
NTNV	11B	Ant1	2412	6.72	4.70	≤10	PASS
			2442	6.60	4.57	≤10	PASS
			2472	6.42	4.38	≤10	PASS
	11G	Ant1	2412	6.36	4.33	≤10	PASS
			2442	6.92	4.92	≤10	PASS
			2472	6.05	4.03	≤10	PASS
	11N20SISO	Ant1	2412	6.36	4.33	≤10	PASS
			2442	6.09	4.06	≤10	PASS
			2472	6.37	4.34	≤10	PASS
	11N40SISO	Ant1	2422	2.51	1.78	≤5	FAIL
			2442	3.26	2.12	≤5	FAIL
			2462	2.65	1.84	≤5	PASS

Tolerance								
Test Condition	Test Mode	Antenna	Channel	Power (mW/MHz)	RatedPower (mW/MHz)	Result (%)	Limit (%)	Verdict
NTNV	11B	Ant1	2412	4.70	5	-6.00	+20	PASS
			2442	4.57	5	-8.60	+20	PASS
			2472	4.38	5	-12.40	+20	PASS
	11G	Ant1	2412	4.33	5	-13.40	+20	PASS
			2442	4.92	5	-1.60	+20	PASS
			2472	4.03	5	-19.40	+20	PASS
	11N20SISO	Ant1	2412	4.33	5	-13.40	+20	PASS
			2442	4.06	5	-18.80	+20	PASS
			2472	4.34	5	-13.20	+20	PASS
	11N40SISO	Ant1	2422	1.78	2	-11.00	+20	PASS
			2442	2.12	2	6.00	+20	PASS
			2462	1.84	2	-8.00	+20	PASS



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EIRP								
Test Condition	Test Mode	Antenna	Frequency[MHz]	Measured Power (dBm/MHz)	Antenna Gain (dBi)	EIRP (dBm/MHz)	Limit (dBm/MHz)	Verdict
NTNV	11B	Ant1	2412	6.72	2.9	9.62	≤12.14	PASS
			2442	6.60	2.9	9.50	≤12.14	PASS
			2472	6.42	2.9	9.32	≤12.14	PASS
	11G	Ant1	2412	6.36	2.9	9.26	≤12.14	PASS
			2442	6.92	2.9	9.82	≤12.14	PASS
			2472	6.05	2.9	8.95	≤12.14	PASS
	11N20SISO	Ant1	2412	6.36	2.9	9.26	≤12.14	PASS
			2442	6.09	2.9	8.99	≤12.14	PASS
			2472	6.37	2.9	9.27	≤12.14	PASS
	11N40SISO	Ant1	2422	2.51	2.9	5.41	≤9.13	PASS
			2442	3.26	2.9	6.16	≤9.13	PASS
			2462	2.65	2.9	5.55	≤9.13	PASS



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A.3 Occupied Bandwidth

Test Result

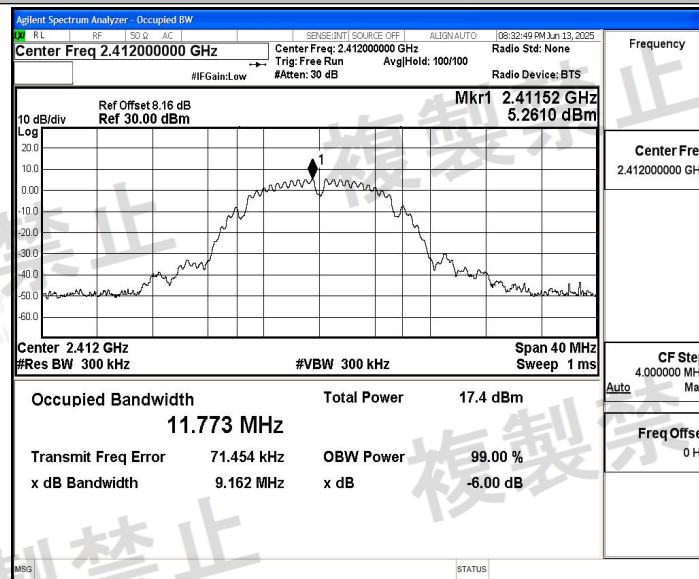
TestCondition	TestMode	Antenna	Channel	Result [MHz]	Limit [MHz]	Verdict
NTNV	11B	Ant1	2412	11.773	≤26	PASS
			2442	11.760	≤26	PASS
			2472	11.851	≤26	PASS
	11G	Ant1	2412	16.589	≤26	PASS
			2442	16.580	≤26	PASS
			2472	16.579	≤26	PASS
	11N20SISO	Ant1	2412	17.584	≤26	PASS
			2442	17.568	≤26	PASS
			2472	17.620	≤26	PASS
	11N40SISO	Ant1	2422	35.986	26-40	PASS
			2442	35.985	26-40	PASS
			2462	36.196	26-40	PASS



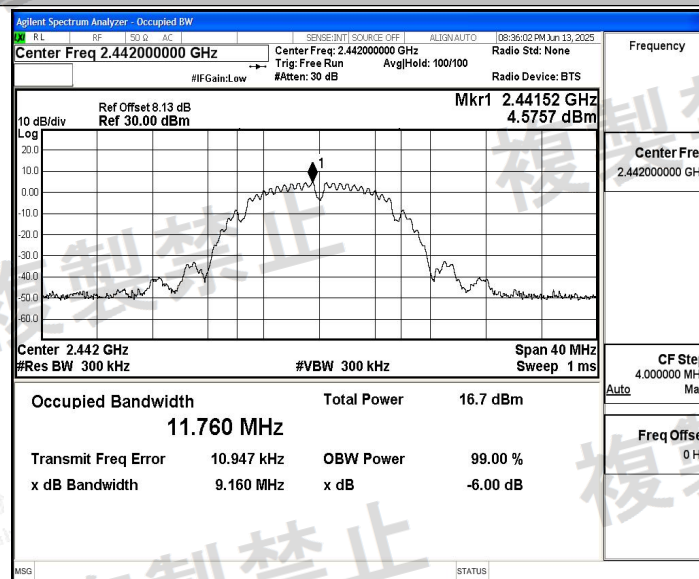
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Test Graphs

NTNV_11B_Ant1_2412



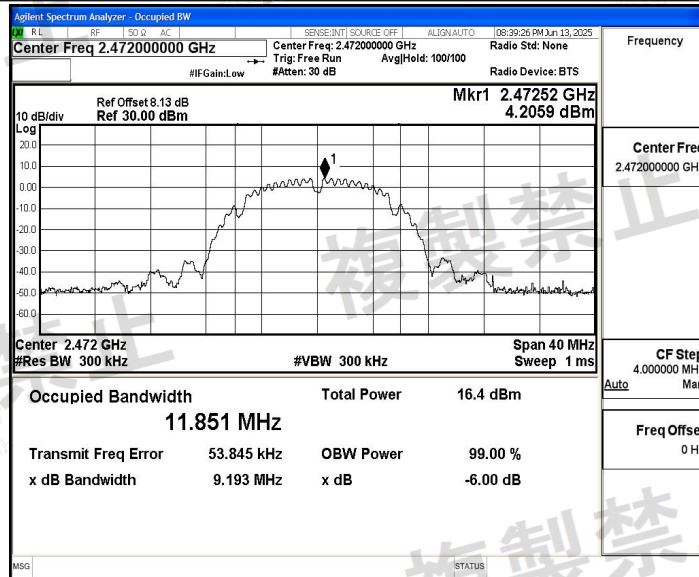
NTNV 11B Ant1 2442



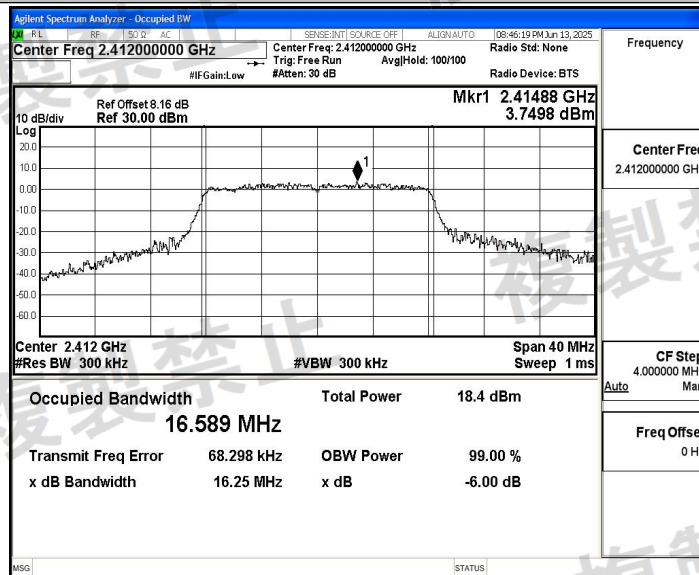
NTNV 11B Ant1 2472



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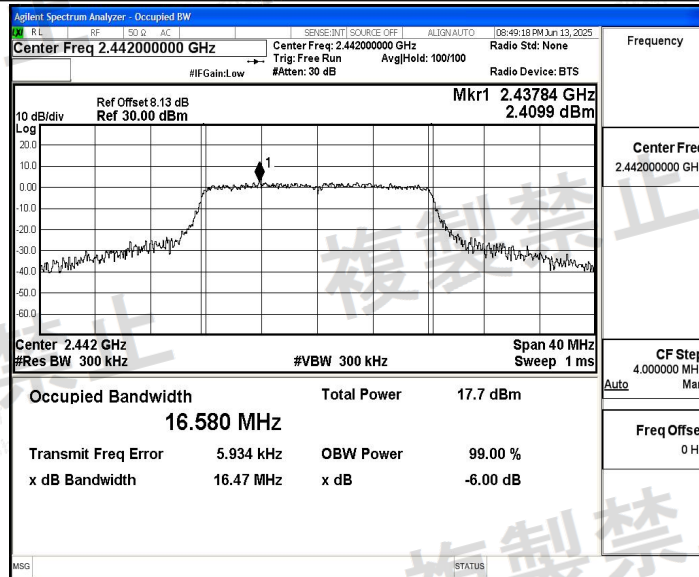
NTNV_11G_Ant1_2412



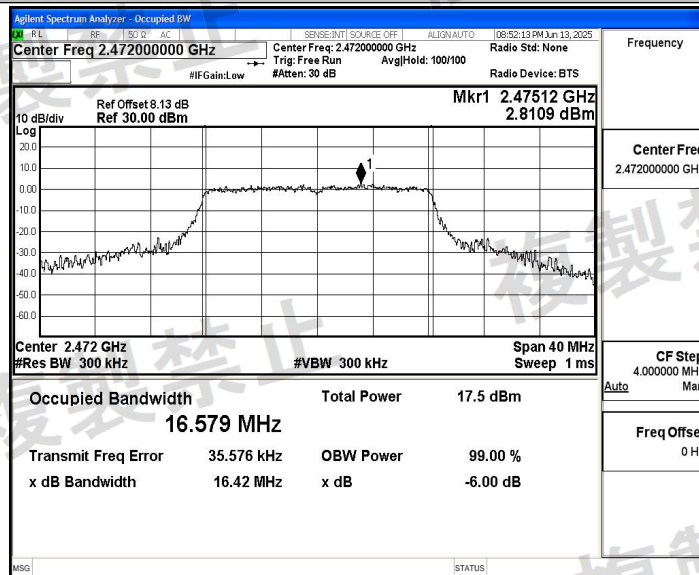
NTNV_11G_Ant1_2442



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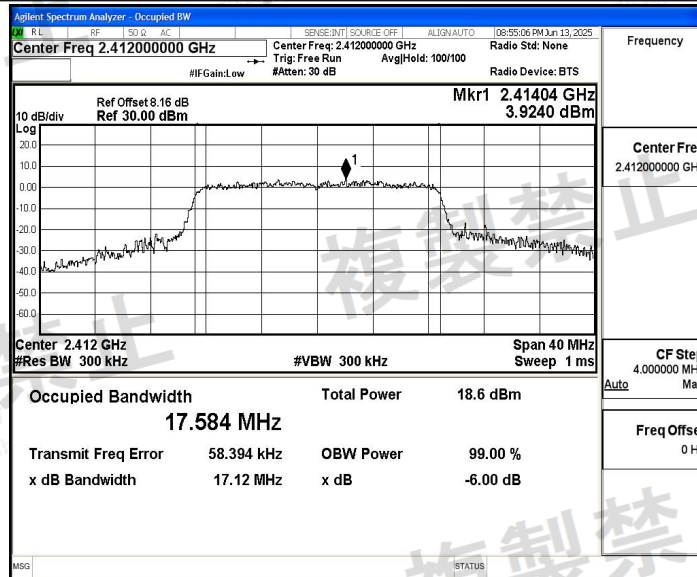


NTNV_11G_Ant1_2472

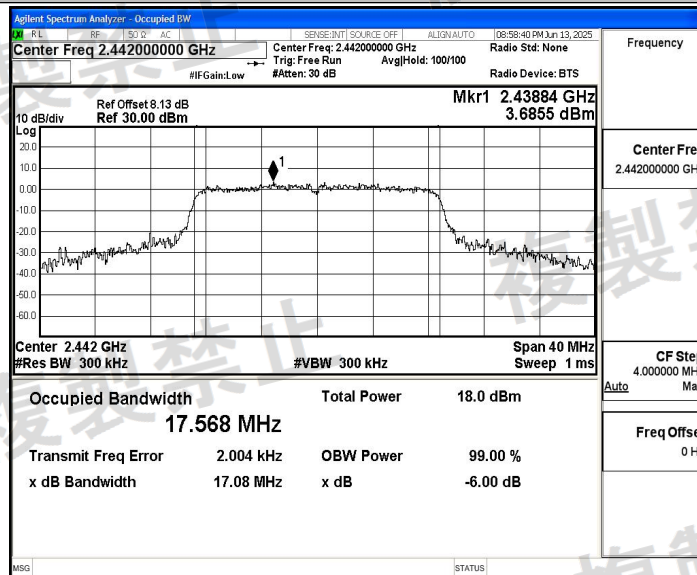


NTNV_11N20SISO_Ant1_2412



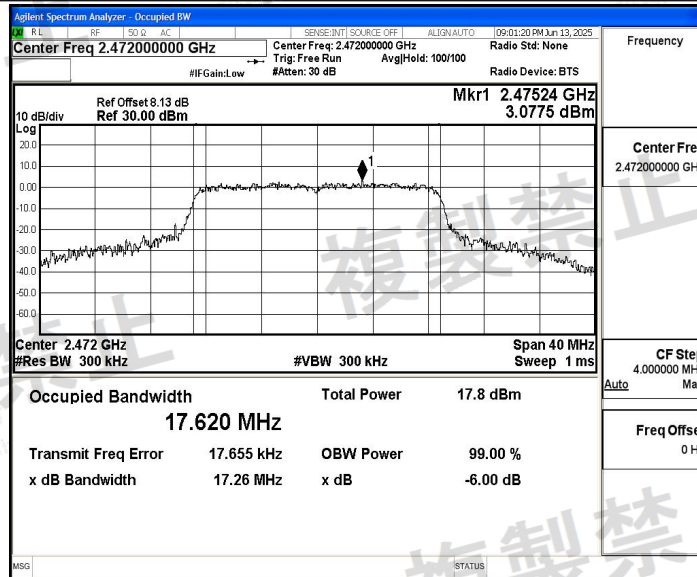


NTNV_11N20SISO_Ant1_2442

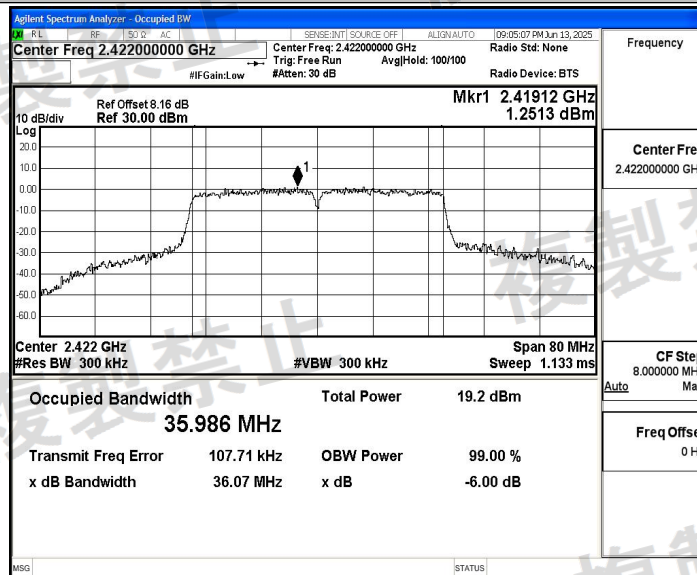


NTNV_11N20SISO_Ant1_2472



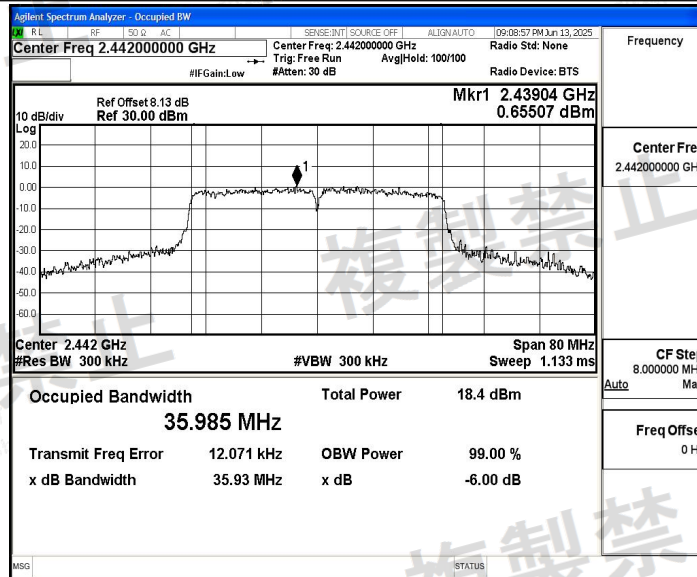


NTNV_11N40SISO_Ant1_2422

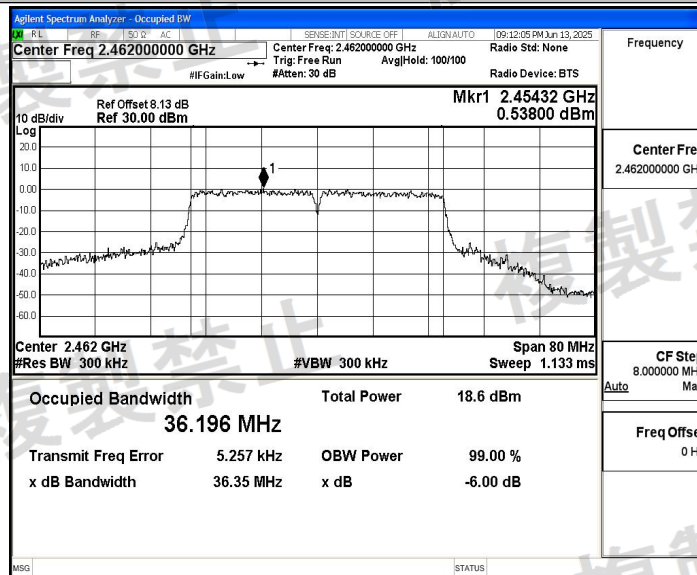


NTNV_11N40SISO_Ant1_2442





NTNV_11N40SISO_Ant1_2462



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A.4 Spread Bandwidth

Test Result

TestCondition	TestMode	Antenna	Channel	Result [MHz]	Limit [MHz]	Verdict
NTNV	11B	Ant1	2412	8.174	---	PASS
			2442	8.160	---	PASS
			2472	8.231	---	PASS
	11G	Ant1	2412	14.465	---	PASS
			2442	14.458	---	PASS
			2472	14.653	---	PASS
	11N20SISO	Ant1	2412	15.205	---	PASS
			2442	15.259	---	PASS
			2472	15.429	---	PASS
	11N40SISO	Ant1	2422	32.155	---	PASS
			2442	31.910	---	PASS
			2462	32.693	---	PASS

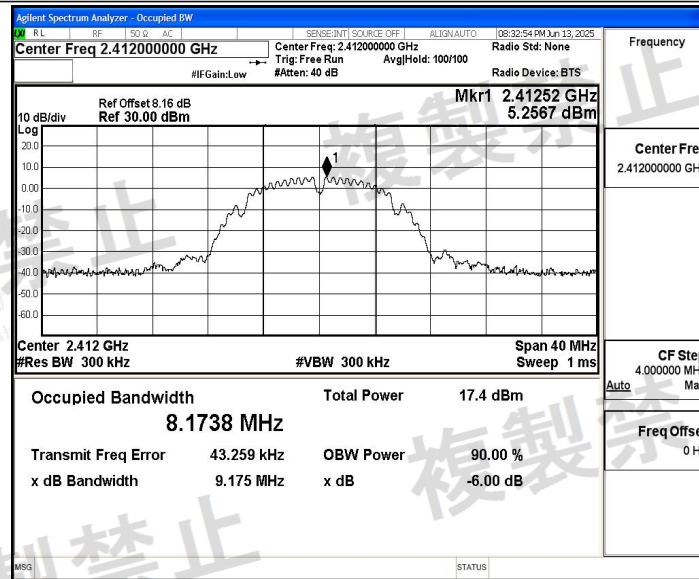


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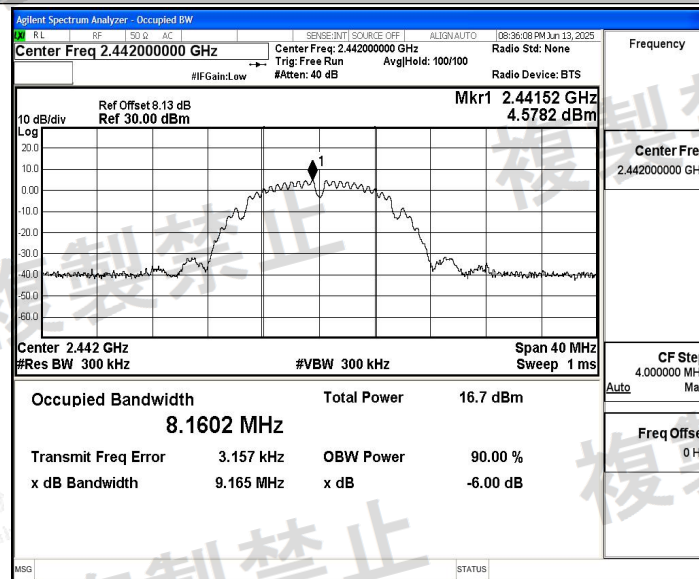


Test Graphs

NTNV_11B_Ant1_2412



NTNV_11B_Ant1_2442



NTNV_11B_Ant1_2472

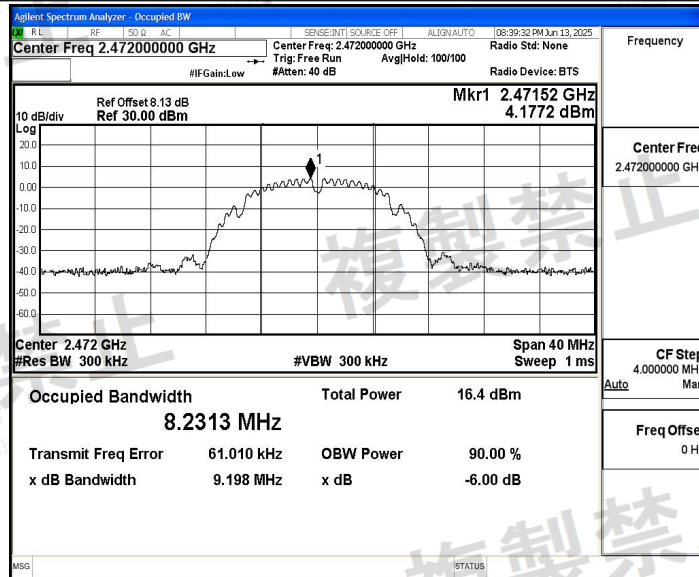


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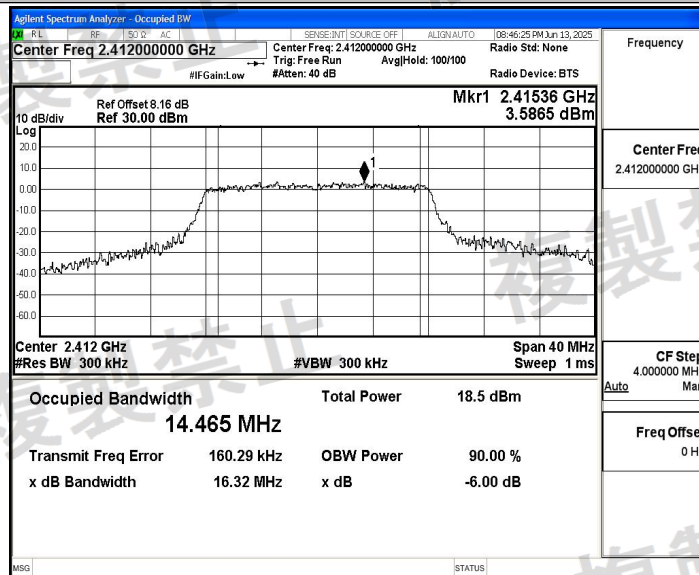
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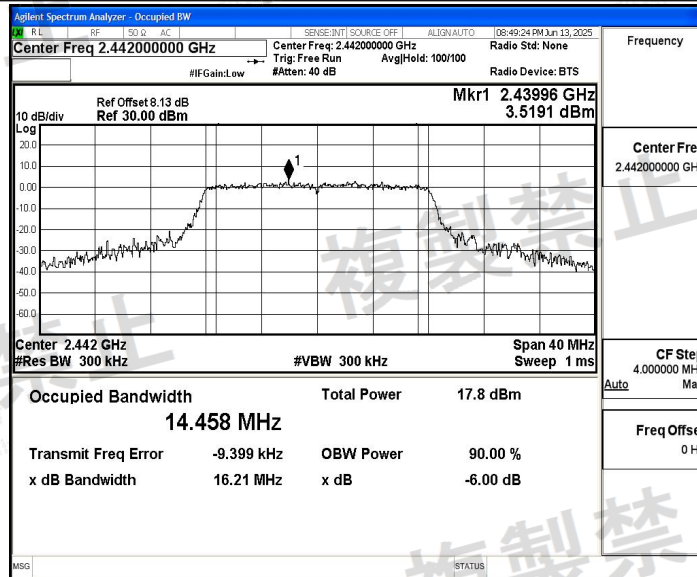
NTNV_11G_Ant1_2412



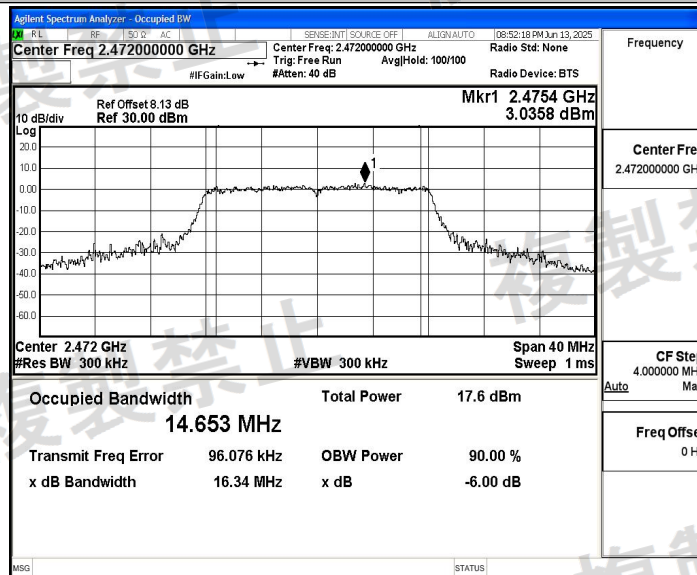
NTNV_11G_Ant1_2442



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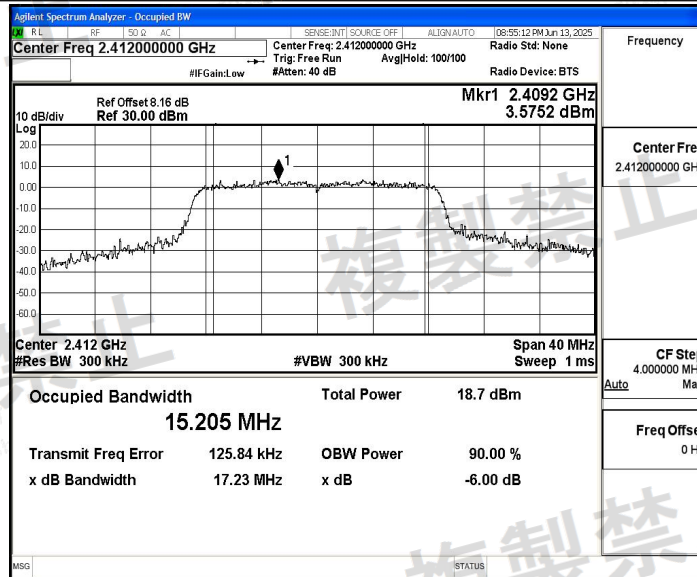


NTNV_11G_Ant1_2472

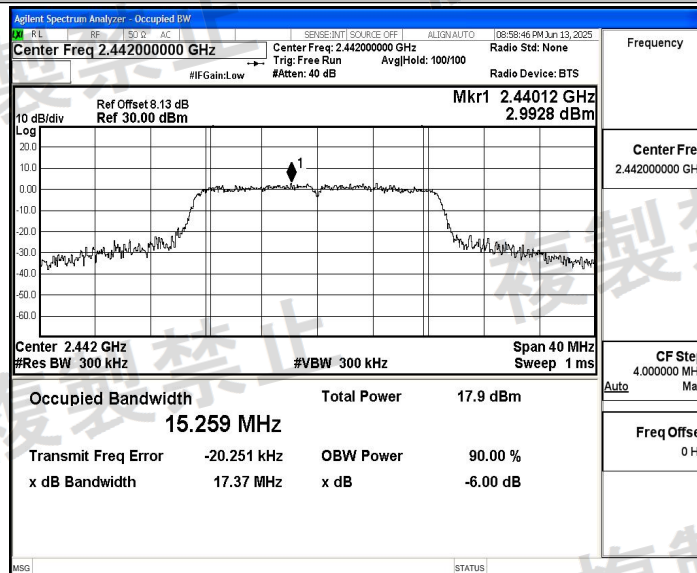


NTNV_11N20SISO_Ant1_2412



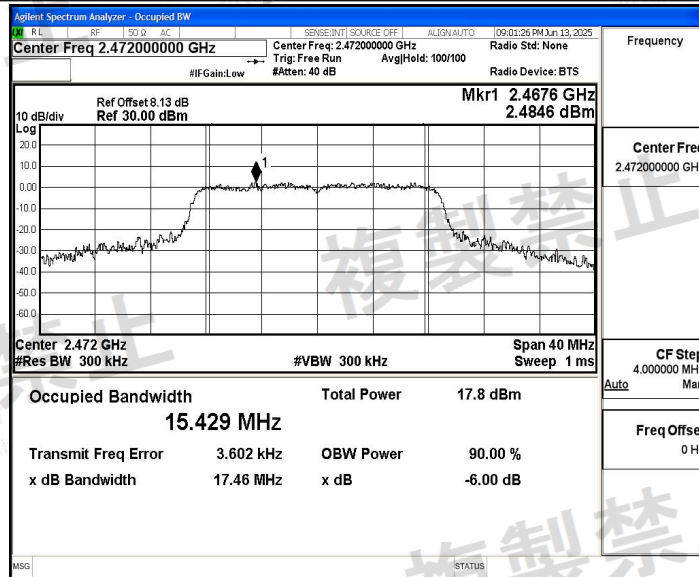


NTNV_11N20SISO_Ant1_2442

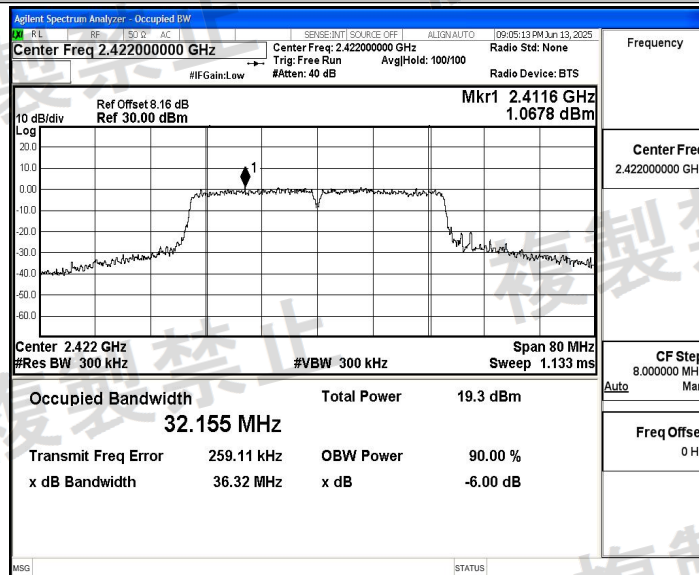


NTNV_11N20SISO_Ant1_2472



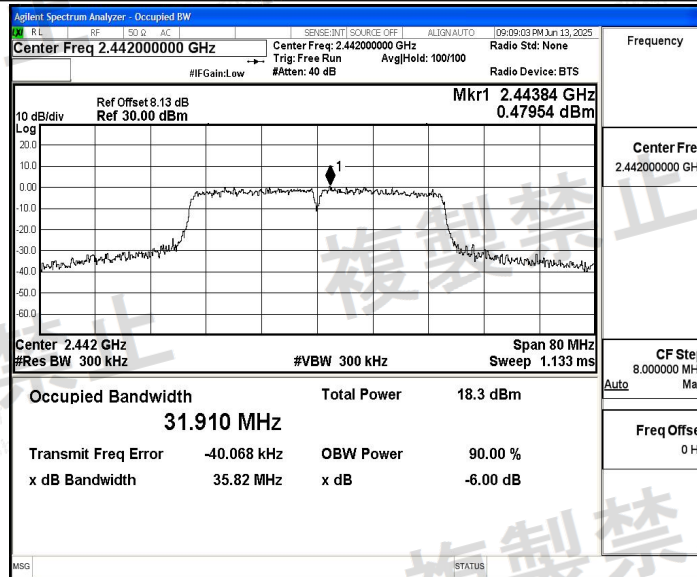


NTNV_11N40SISO_Ant1_2422

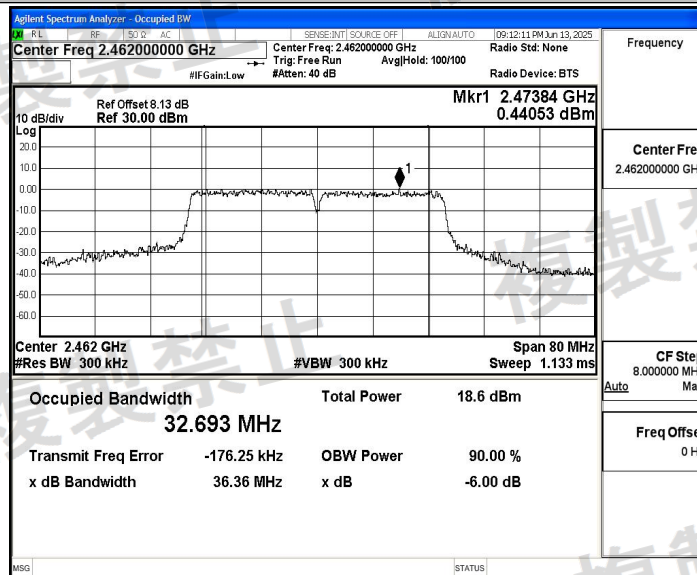


NTNV_11N40SISO_Ant1_2442





NTNV_11N40SISO_Ant1_2462



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A.5 Spurious Emission of TX

Test Result

TestCondition	TestMode	Antenna	Channel	Freq.Range [MHz]	Result [dBm]	Limit [dBm]	Result [μW]	Limit [μW]	Verdict
NTNV	11B	Ant1	2412	30~1000	-60.35	≤-26	0.00092	≤2.5	PASS
				1000~2387	-58.05	≤-26	0.00157	≤2.5	PASS
				2387~2400	-40.79	≤-16	0.08337	≤25	PASS
				2483.5~2496.5	-49.33	≤-16	0.01167	≤25	PASS
				2496.5~13000	-51.34	≤-26	0.00735	≤2.5	PASS
			2442	30~1000	-60.16	≤-26	0.00096	≤2.5	PASS
				1000~2387	-58.62	≤-26	0.00137	≤2.5	PASS
				2387~2400	-49.33	≤-16	0.01167	≤25	PASS
				2483.5~2496.5	-49.24	≤-16	0.01191	≤25	PASS
				2496.5~13000	-52.04	≤-26	0.00625	≤2.5	PASS
		2472	2472	30~1000	-60.08	≤-26	0.00098	≤2.5	PASS
				1000~2387	-58.85	≤-26	0.00130	≤2.5	PASS
				2387~2400	-49.50	≤-16	0.01122	≤25	PASS
				2483.5~2496.5	-40.76	≤-16	0.08395	≤25	PASS
				2496.5~13000	-51.79	≤-26	0.00662	≤2.5	PASS
	11G	Ant1	2412	30~1000	-60.18	≤-26	0.00096	≤2.5	PASS
				1000~2387	-51.52	≤-26	0.00705	≤2.5	PASS
				2387~2400	-28.23	≤-16	1.50314	≤25	PASS
				2483.5~2496.5	-49.47	≤-16	0.01130	≤25	PASS
				2496.5~13000	-51.98	≤-26	0.00634	≤2.5	PASS
			2442	30~1000	-60.16	≤-26	0.00096	≤2.5	PASS
				1000~2387	-58.58	≤-26	0.00139	≤2.5	PASS
				2387~2400	-49.42	≤-16	0.01143	≤25	PASS
				2483.5~2496.5	-49.02	≤-16	0.01253	≤25	PASS
				2496.5~13000	-51.55	≤-26	0.00700	≤2.5	PASS
		2472	2472	30~1000	-60.06	≤-26	0.00099	≤2.5	PASS
				1000~2387	-58.80	≤-26	0.00132	≤2.5	PASS
				2387~2400	-49.57	≤-16	0.01104	≤25	PASS
				2483.5~2496.5	-26.78	≤-16	2.09894	≤25	PASS
				2496.5~13000	-51.79	≤-26	0.00662	≤2.5	PASS
	11N20SISO	Ant1	2412	30~1000	-60.21	≤-26	0.00095	≤2.5	PASS
				1000~2387	-49.45	≤-26	0.01135	≤2.5	PASS
				2387~2400	-27.57	≤-16	1.74985	≤25	PASS



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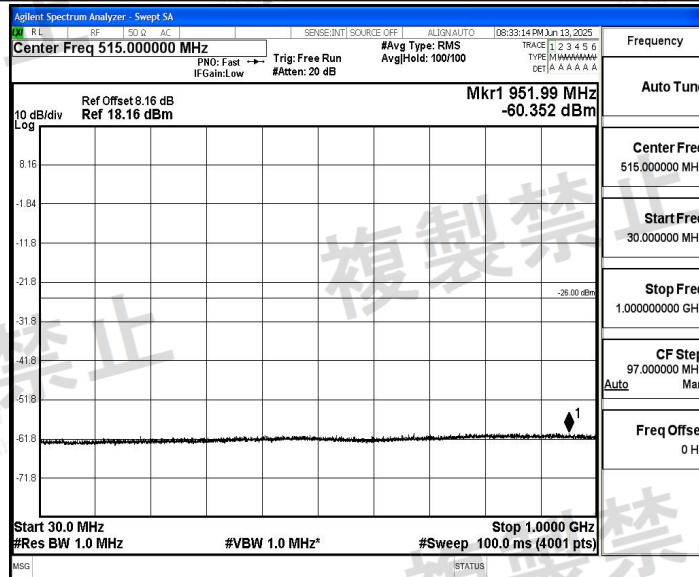
				2483.5~2496.5	-49.43	≤-16	0.01140	≤25	PASS
				2496.5~13000	-51.28	≤-26	0.00745	≤2.5	PASS
			2442	30~1000	-59.93	≤-26	0.00102	≤2.5	PASS
				1000~2387	-58.19	≤-26	0.00152	≤2.5	PASS
				2387~2400	-49.27	≤-16	0.01183	≤25	PASS
				2483.5~2496.5	-49.19	≤-16	0.01205	≤25	PASS
				2496.5~13000	-51.45	≤-26	0.00716	≤2.5	PASS
				2472	30~1000	-60.11	≤-26	0.00097	≤2.5
			1000~2387		-58.78	≤-26	0.00132	≤2.5	PASS
			2387~2400		-49.54	≤-16	0.01112	≤25	PASS
	2483.5~2496.5	-25.32	≤-16		2.93765	≤25	PASS		
	2496.5~13000	-52.02	≤-26		0.00628	≤2.5	PASS		
	11N40SISO	Ant1	2422	30~1000	-59.78	≤-26	0.00105	≤2.5	PASS
				1000~2387	-42.80	≤-26	0.05248	≤2.5	PASS
				2387~2400	-30.19	≤-16	0.95719	≤25	PASS
				2483.5~2496.5	-48.73	≤-16	0.01340	≤25	PASS
				2496.5~13000	-51.66	≤-26	0.00682	≤2.5	PASS
			2442	30~1000	-60.08	≤-26	0.00098	≤2.5	PASS
				1000~2387	-57.89	≤-26	0.00163	≤2.5	PASS
				2387~2400	-43.53	≤-16	0.04436	≤25	PASS
2483.5~2496.5				-43.48	≤-16	0.04487	≤25	PASS	
2496.5~13000				-48.54	≤-26	0.01400	≤2.5	PASS	
2462	30~1000	-60.10	≤-26	0.00098	≤2.5	PASS			
	1000~2387	-58.83	≤-26	0.00131	≤2.5	PASS			
	2387~2400	-49.09	≤-16	0.01233	≤25	PASS			
	2483.5~2496.5	-29.81	≤-16	1.04472	≤25	PASS			
	2496.5~13000	-50.57	≤-26	0.00877	≤2.5	PASS			

Test Graphs

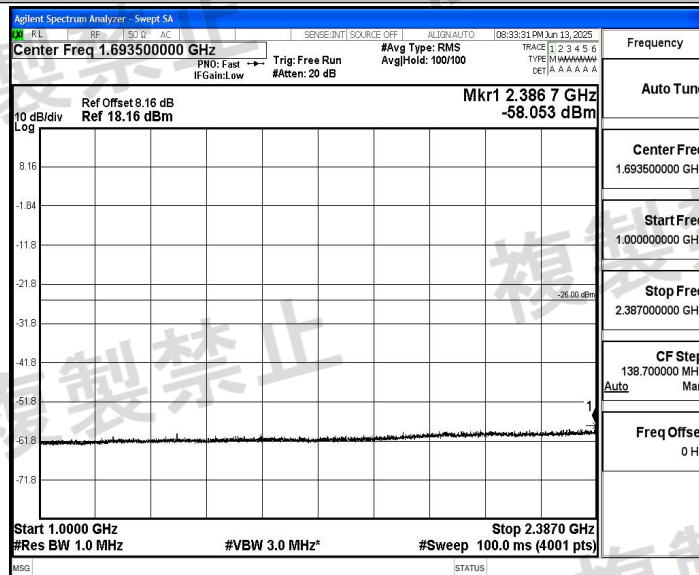
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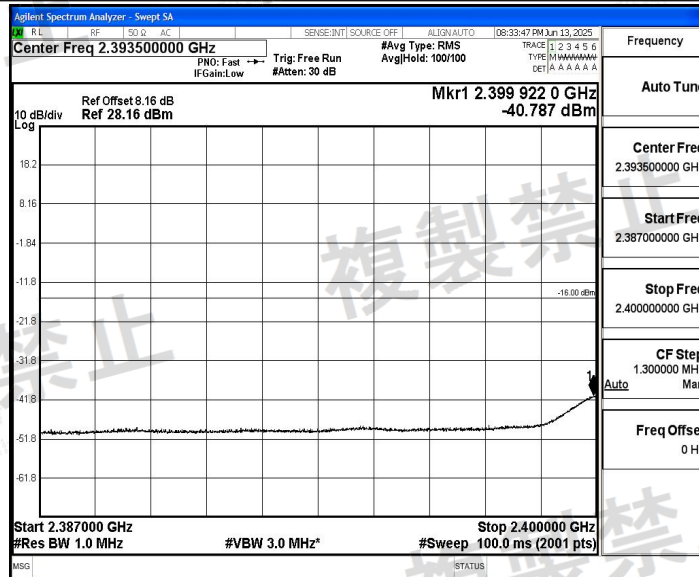
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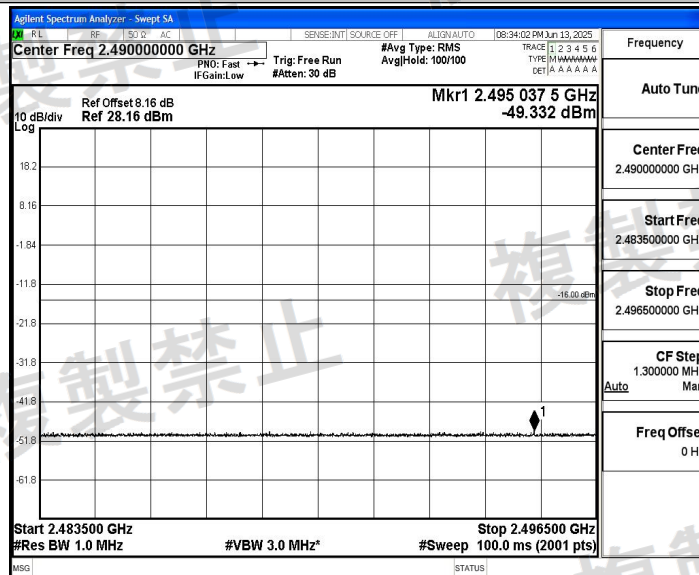
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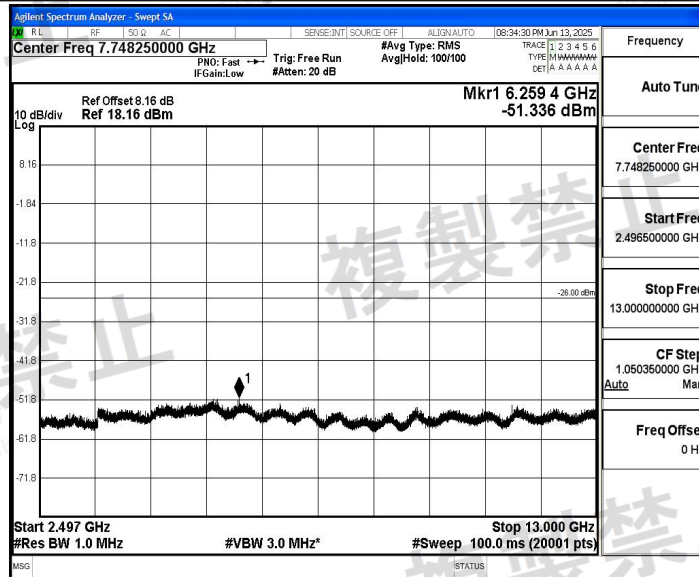
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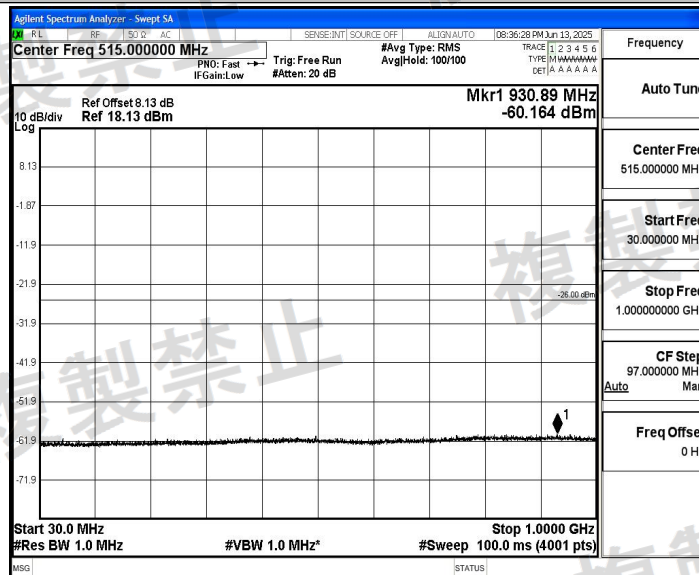
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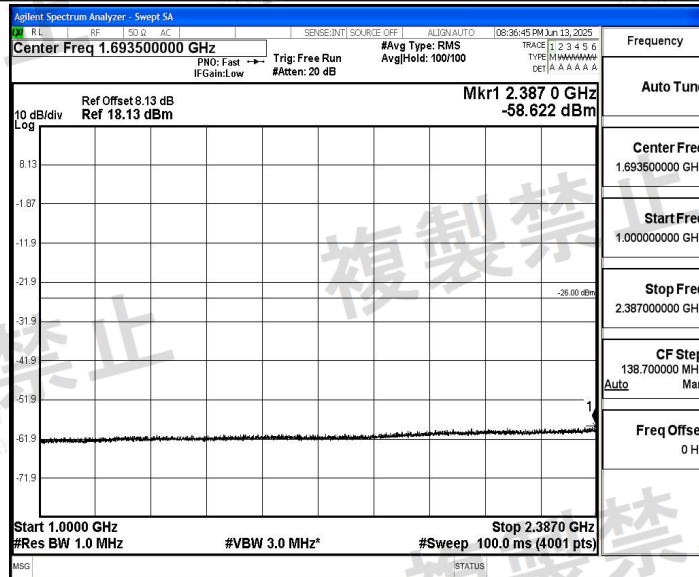
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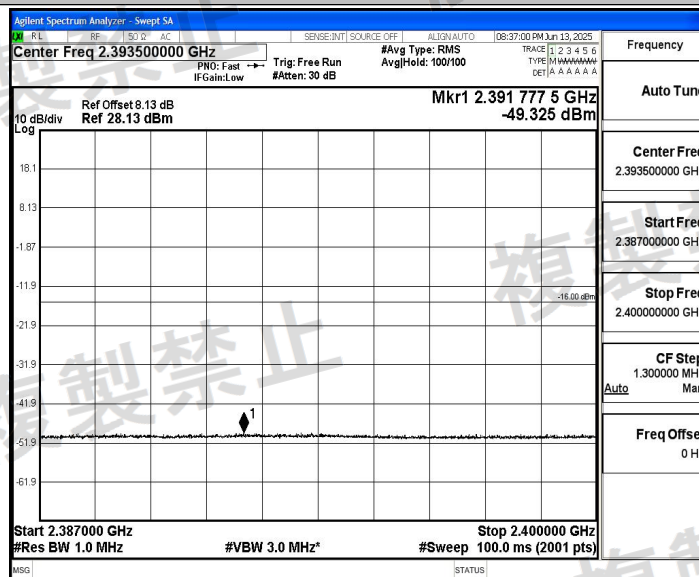
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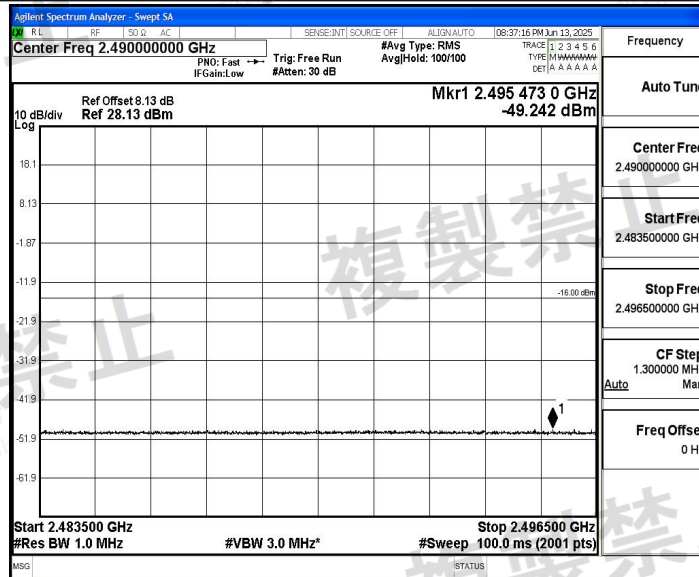
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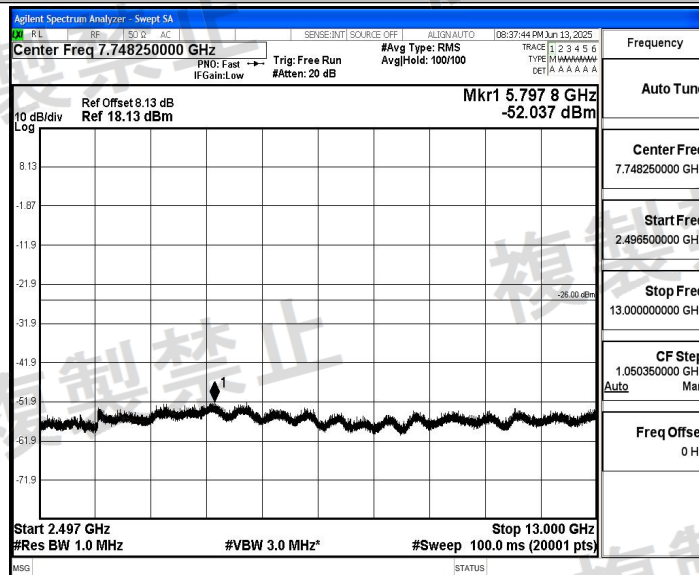
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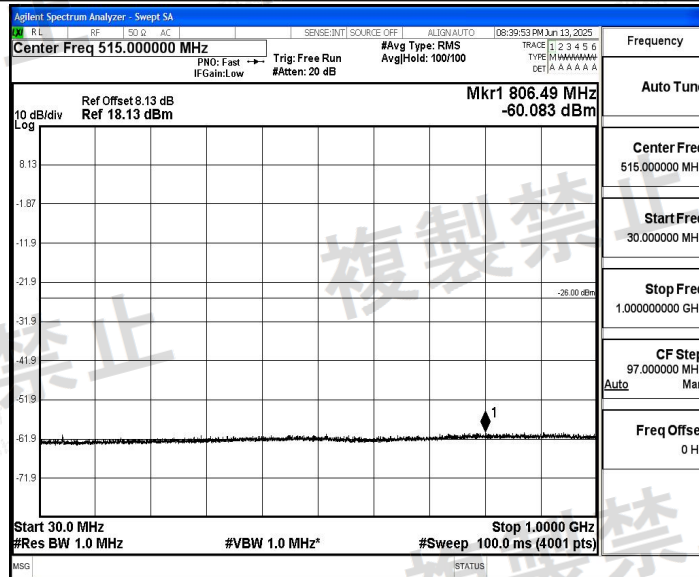
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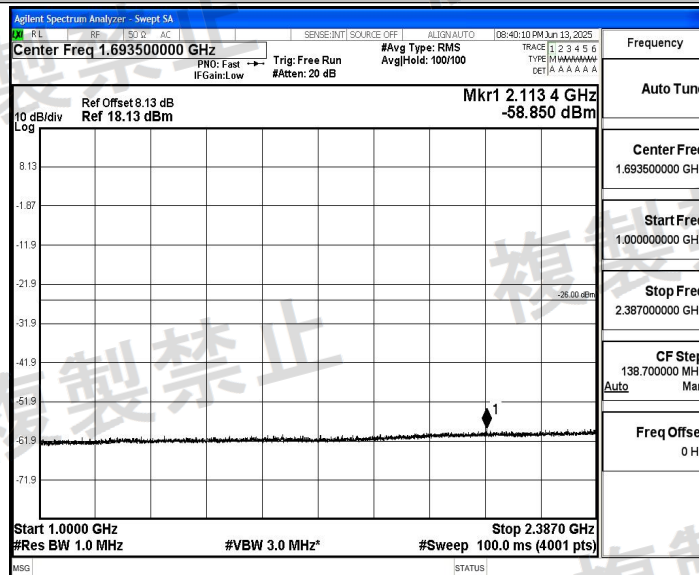
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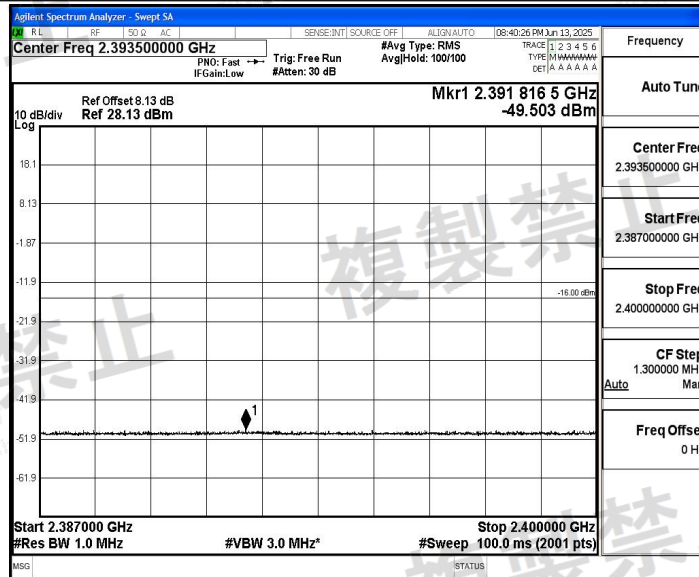
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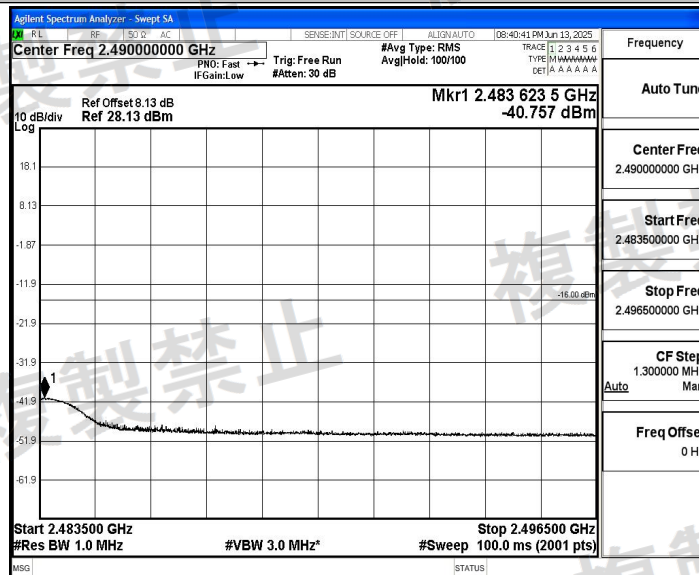
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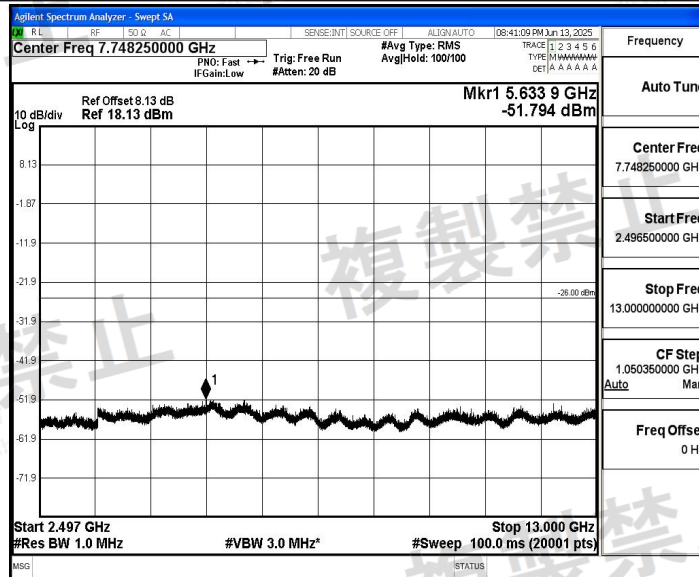
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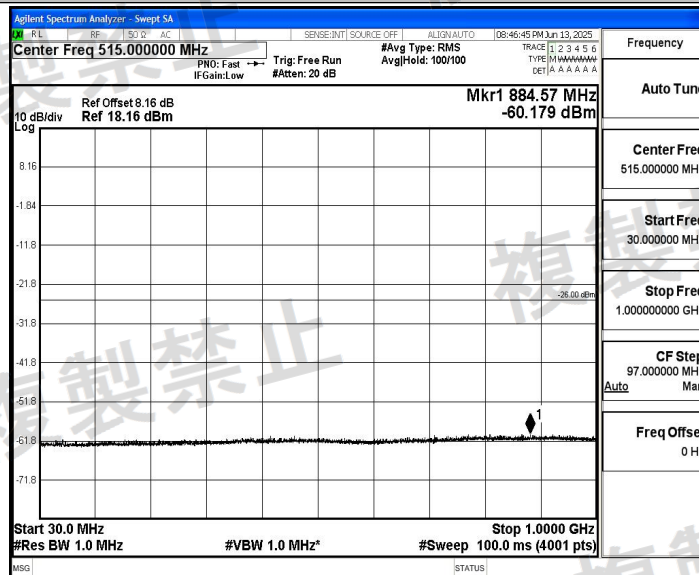
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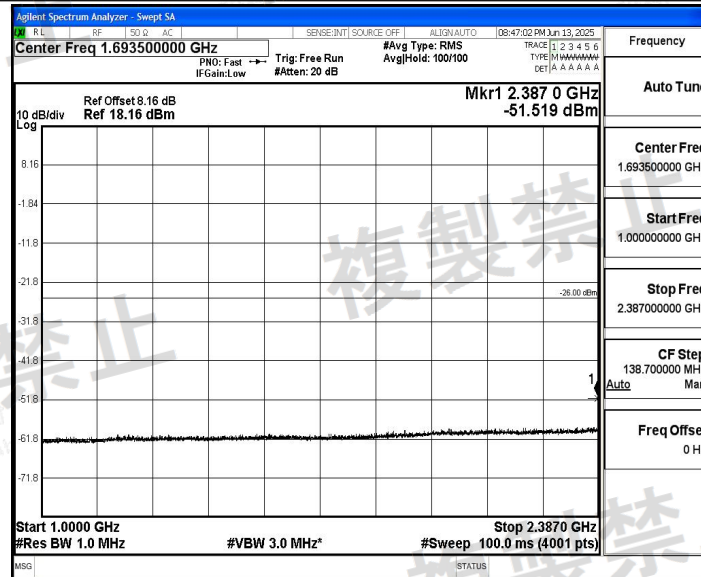
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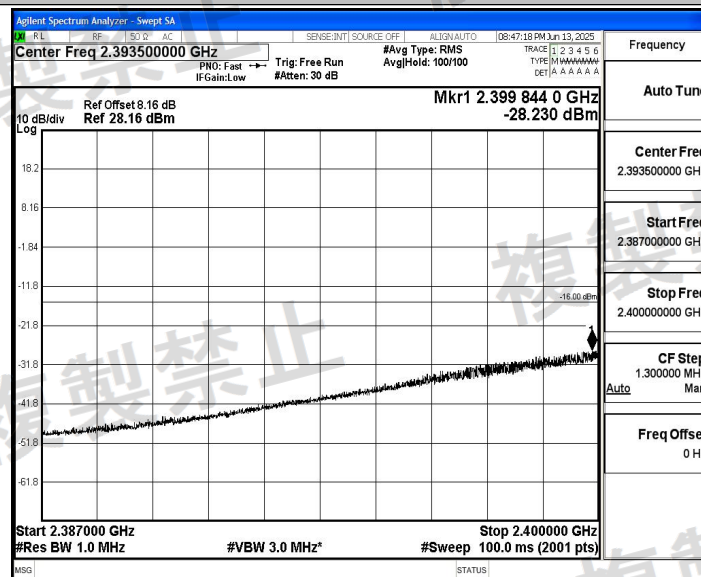
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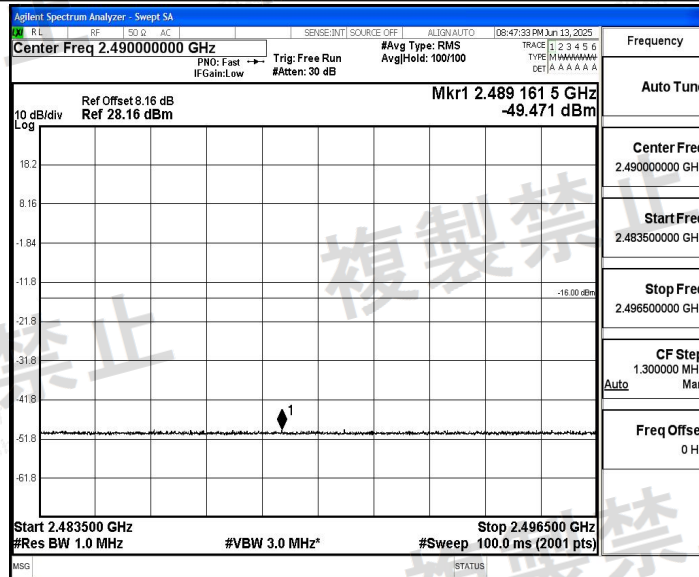
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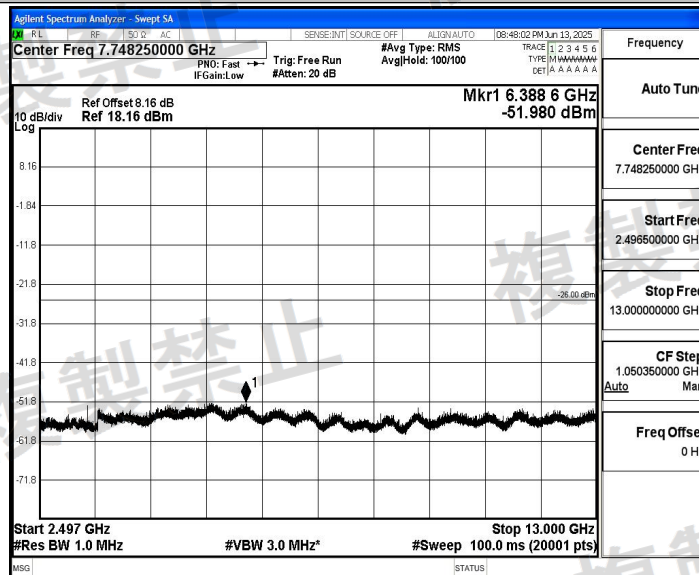
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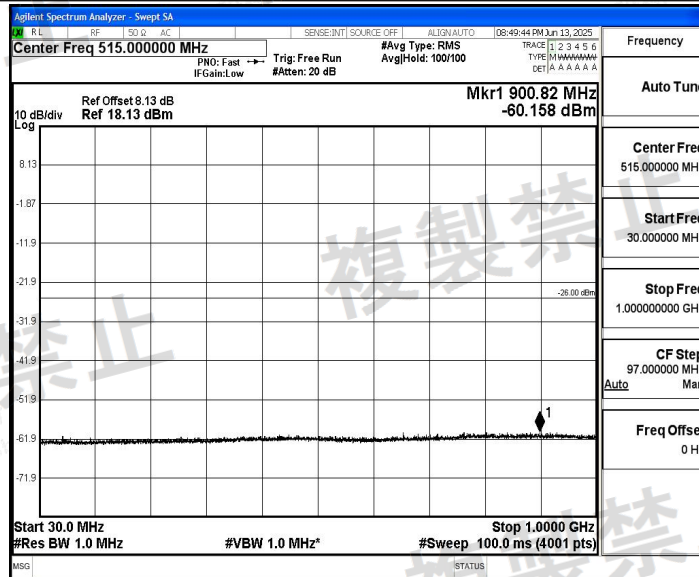
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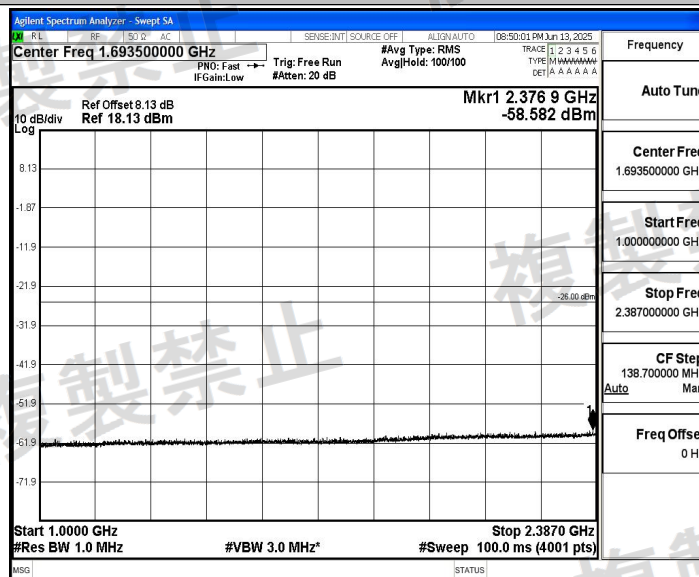
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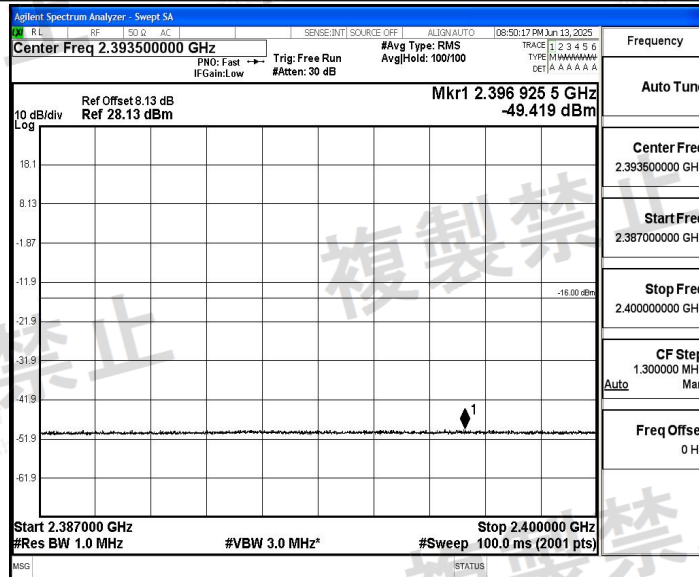
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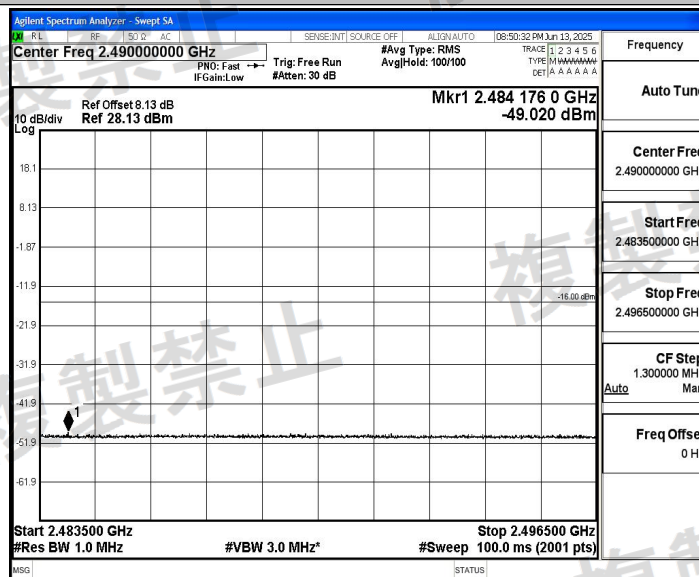
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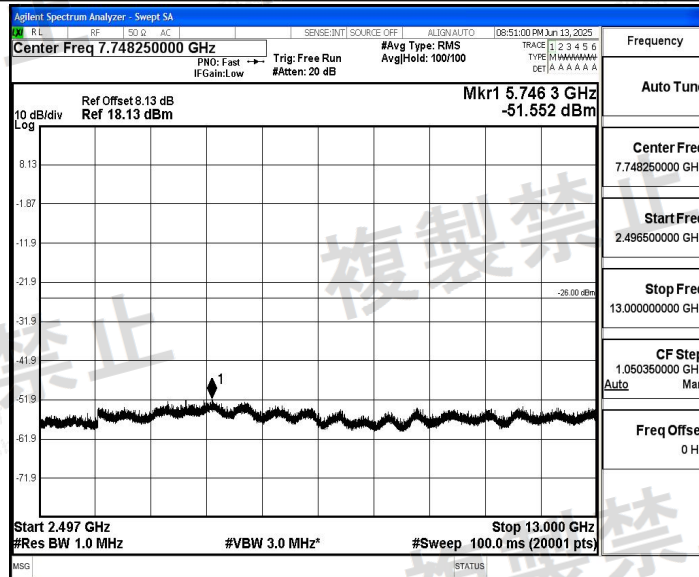
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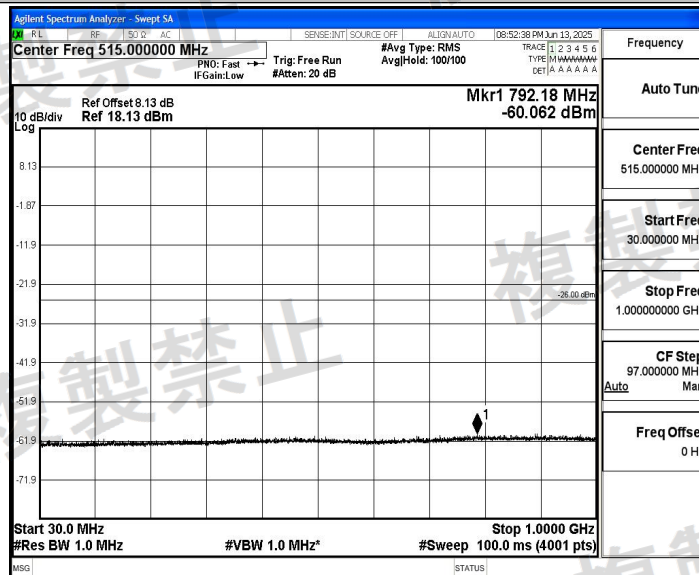
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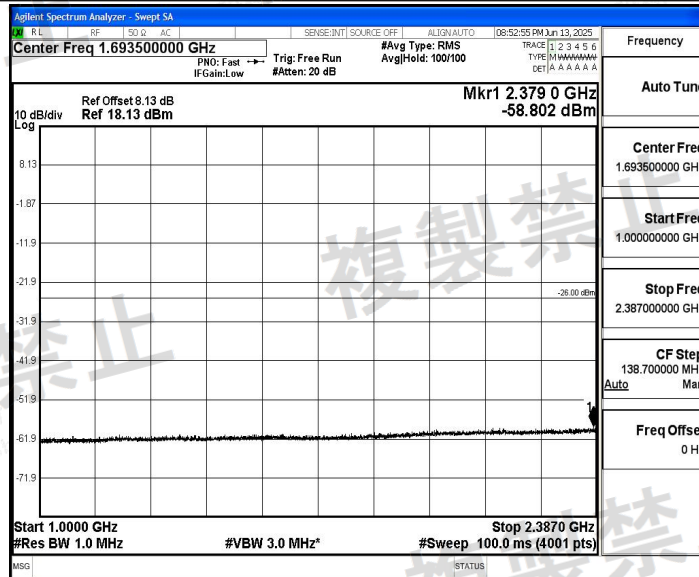
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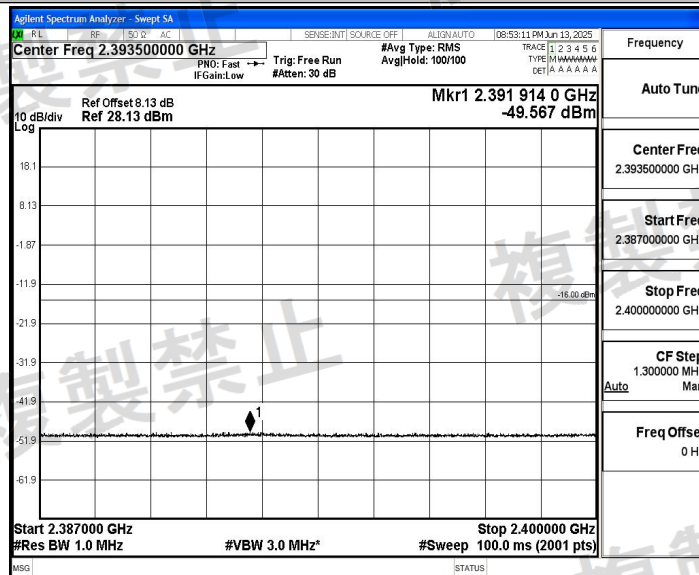
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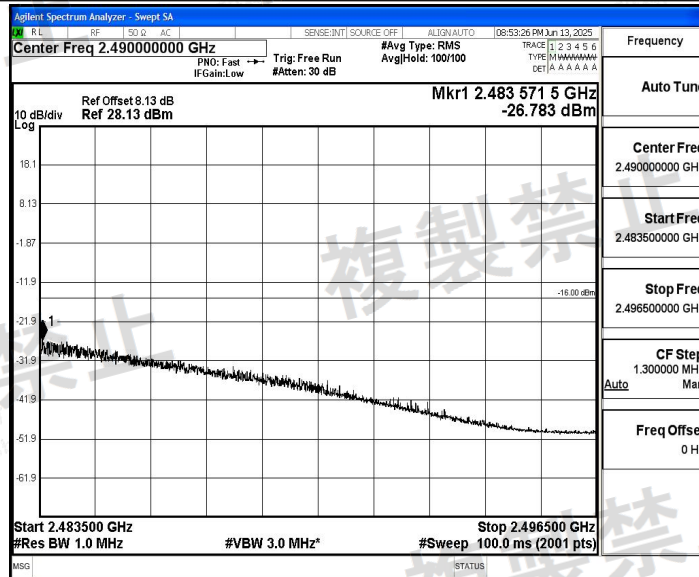
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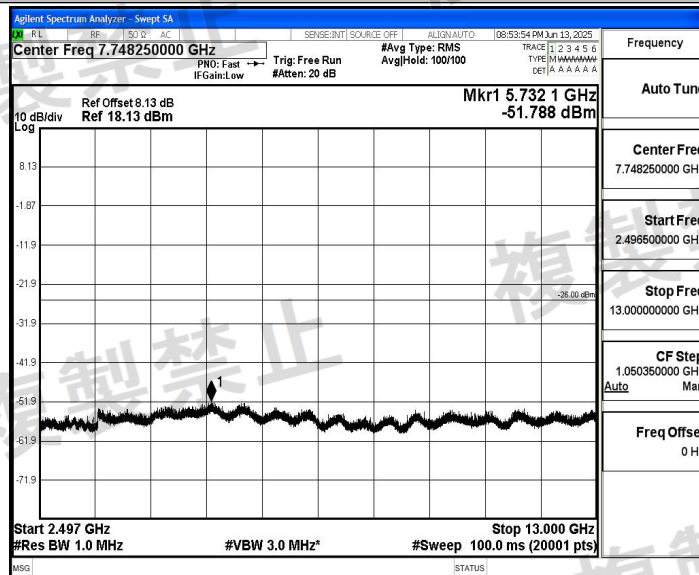
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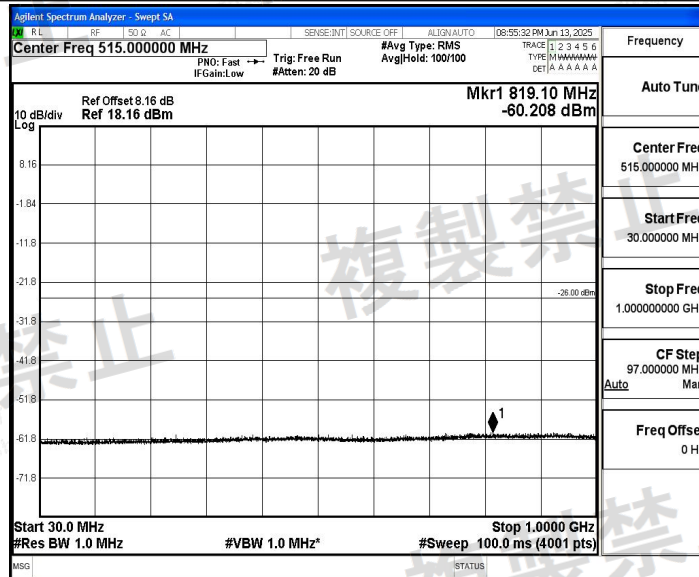
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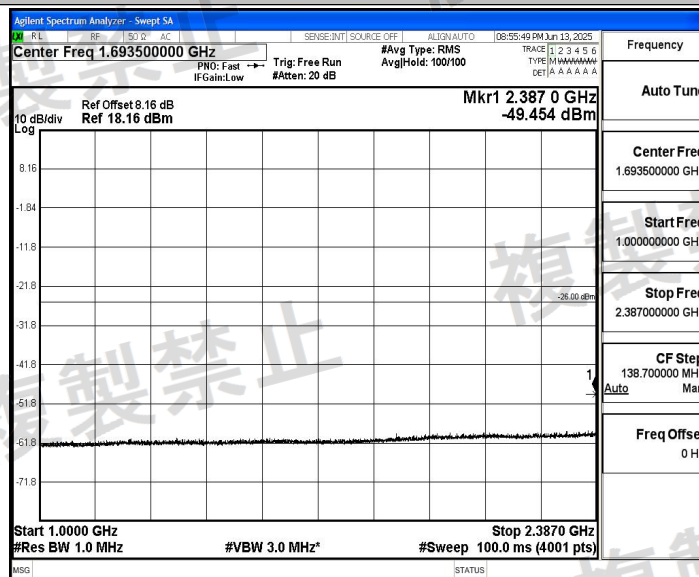
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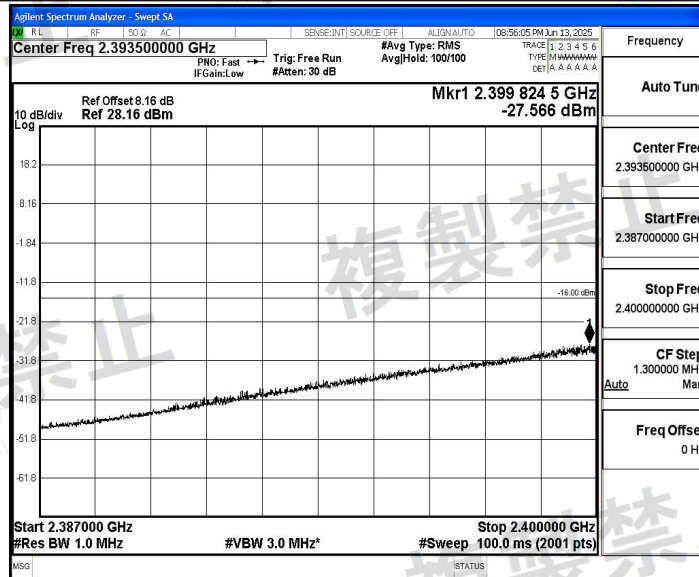
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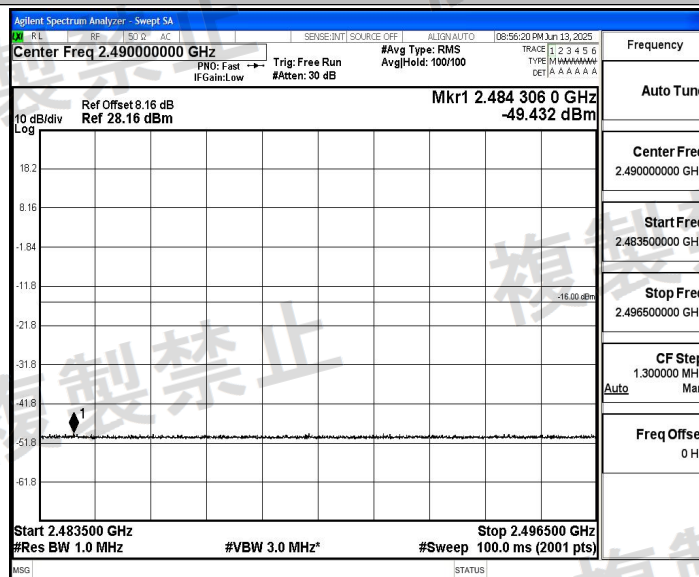
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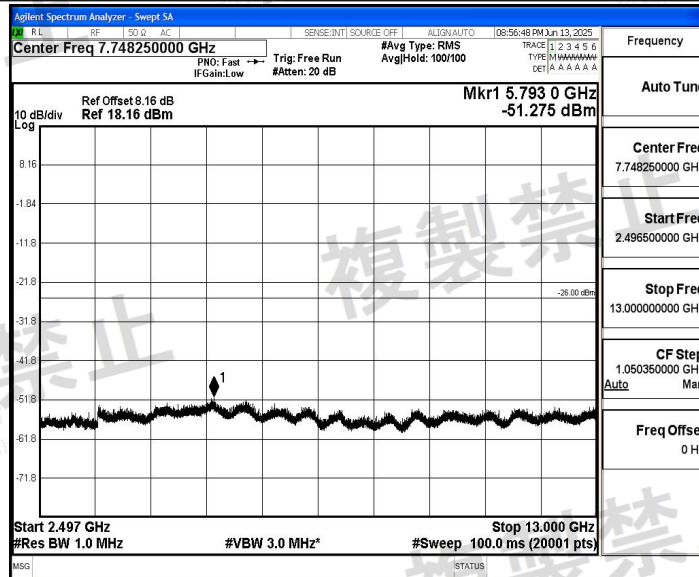
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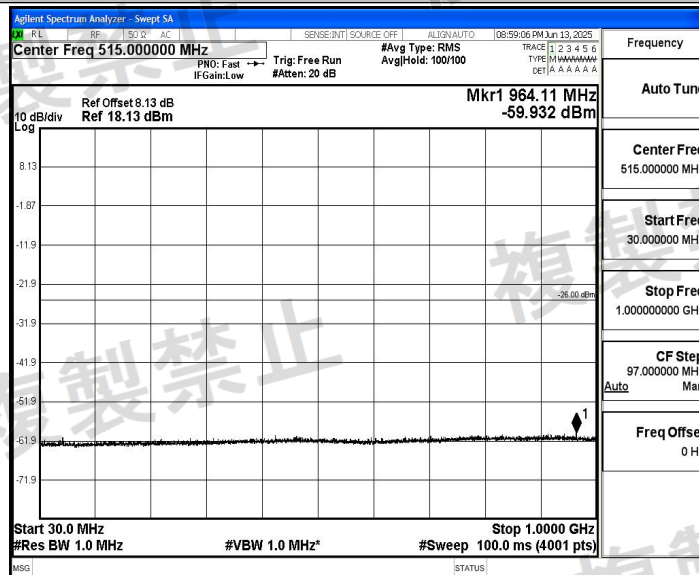
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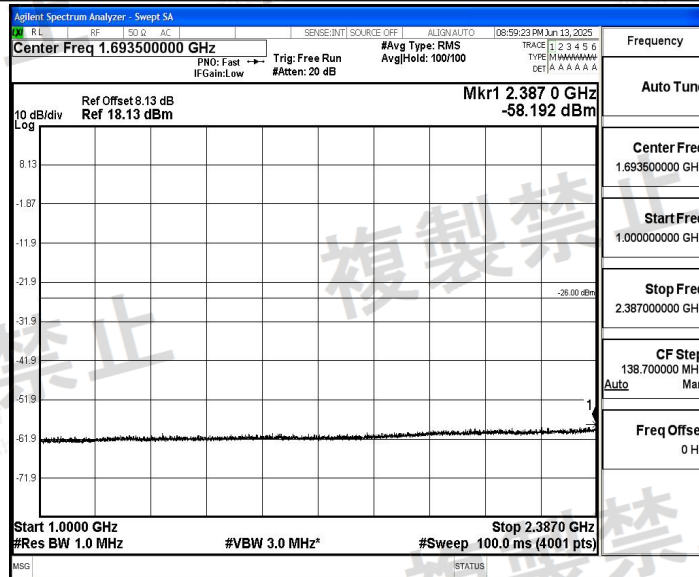
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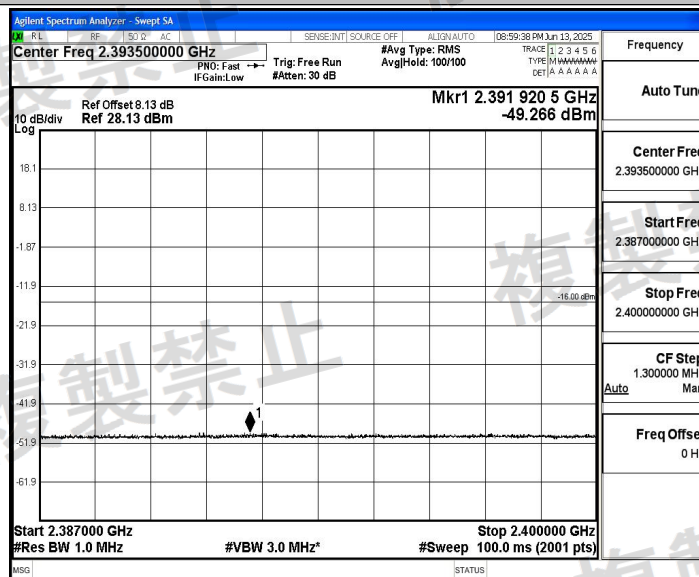
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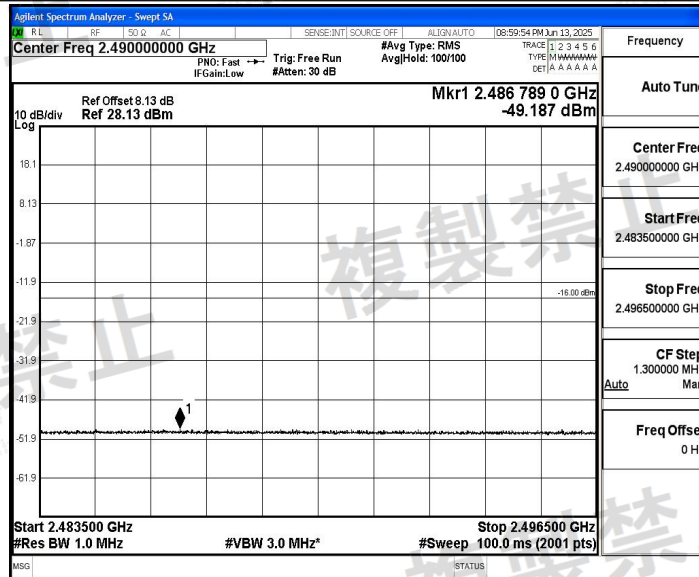
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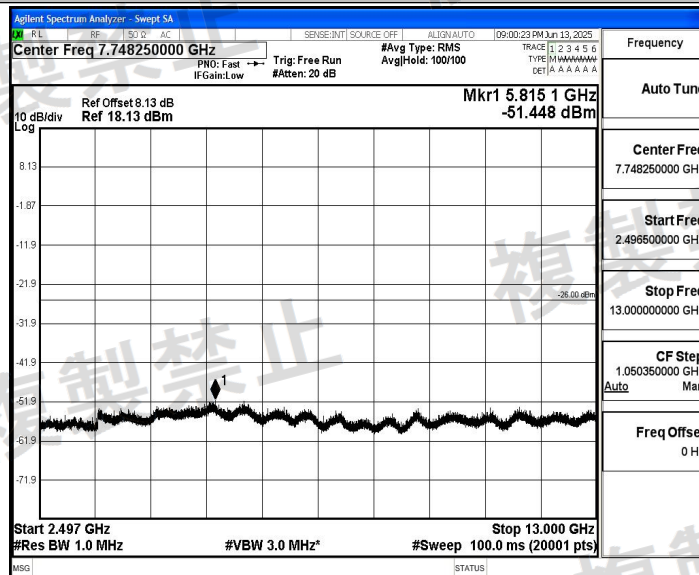
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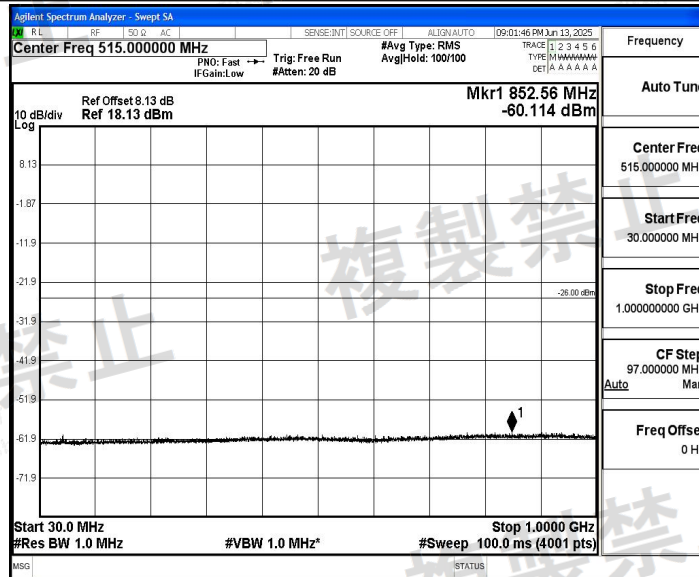
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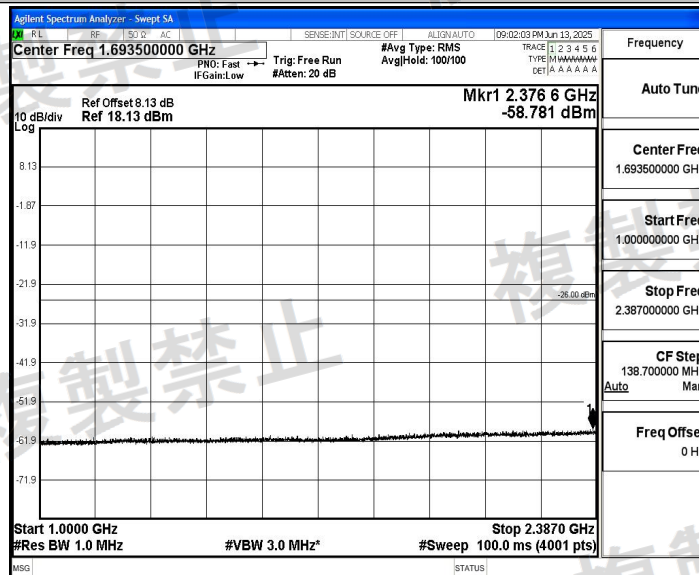
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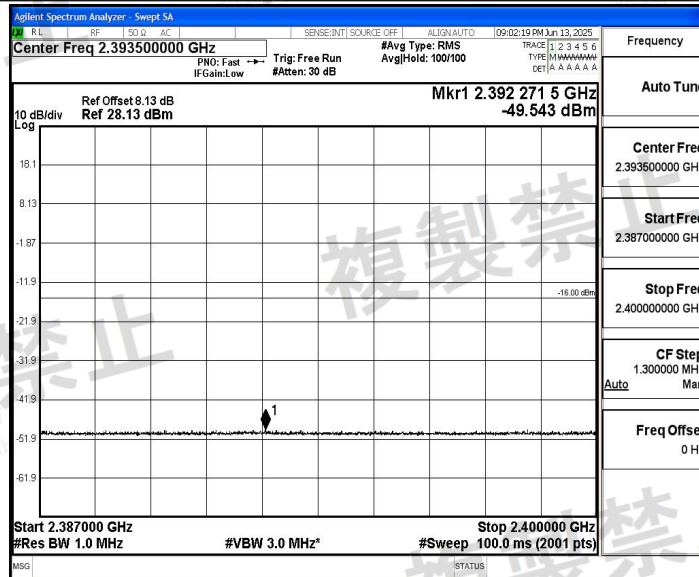
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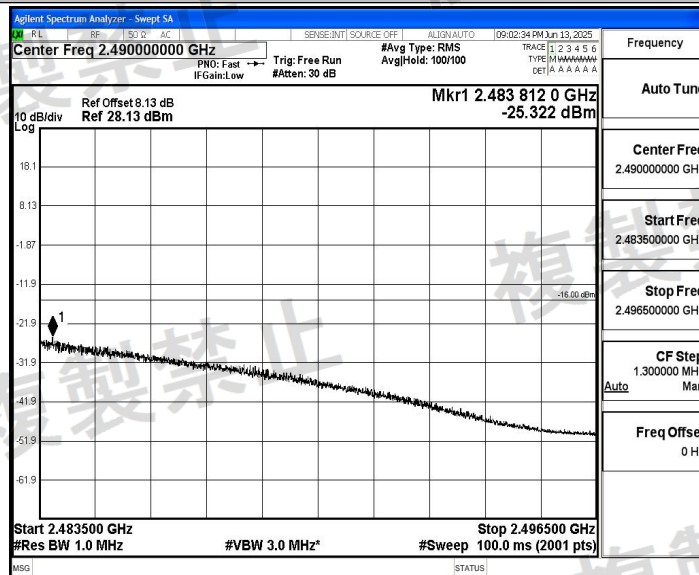
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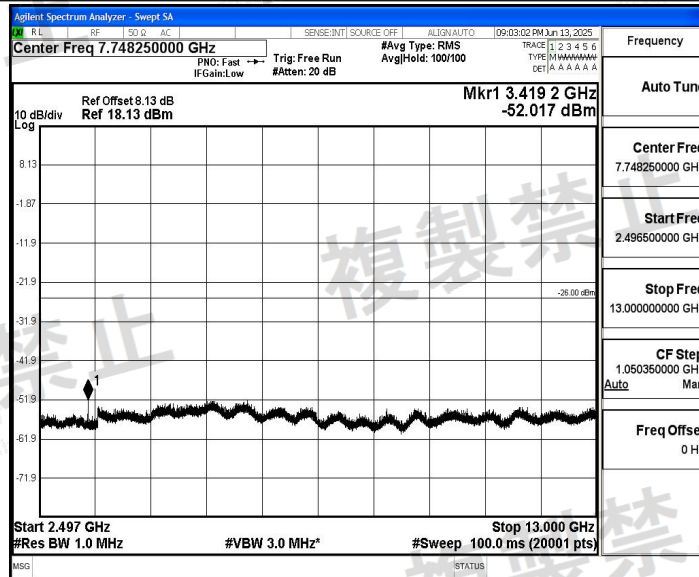
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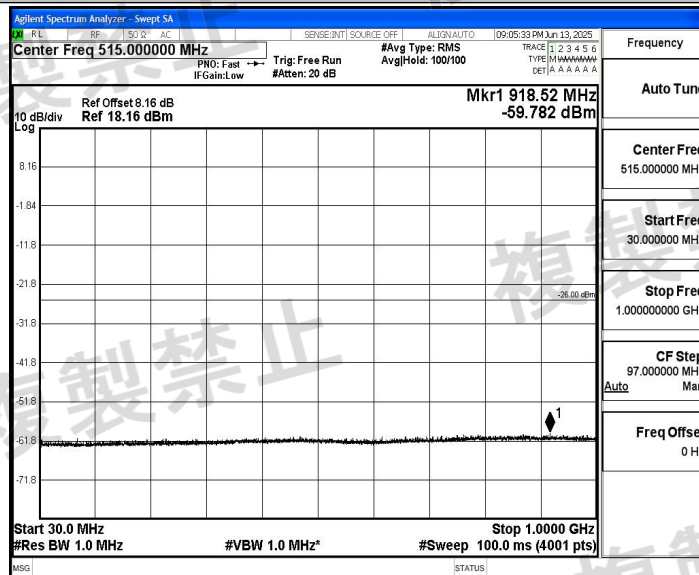
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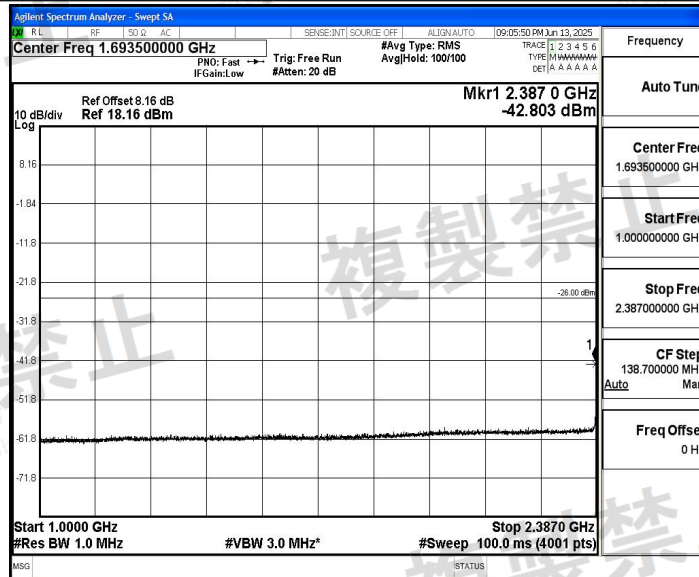
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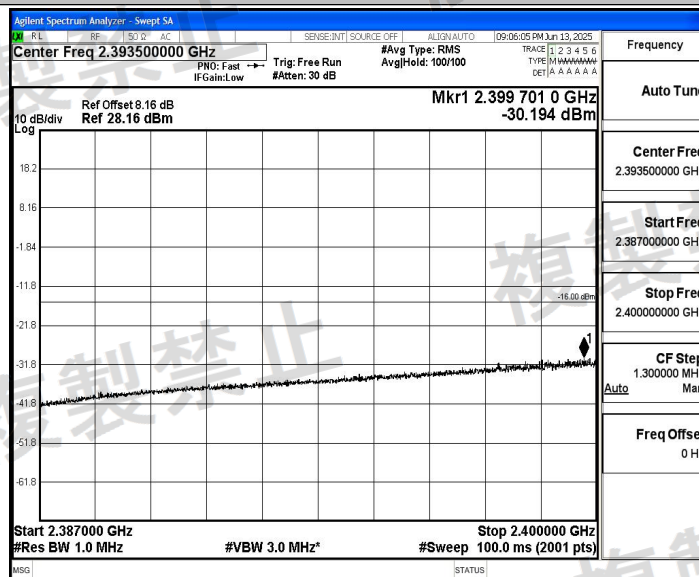
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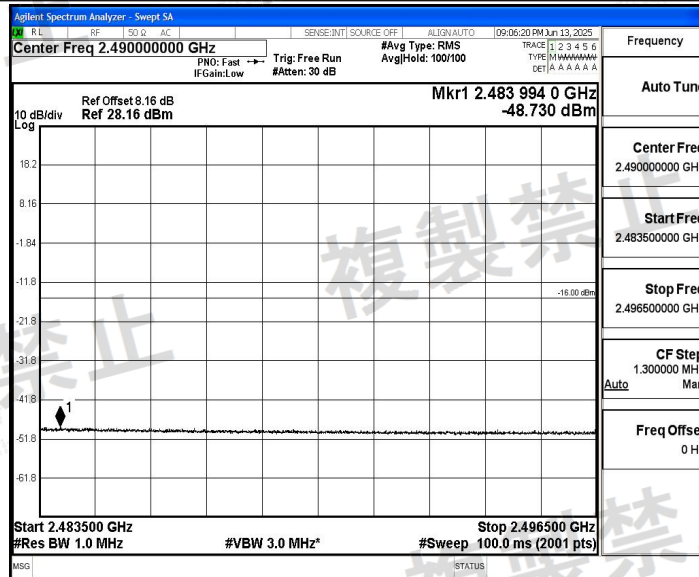
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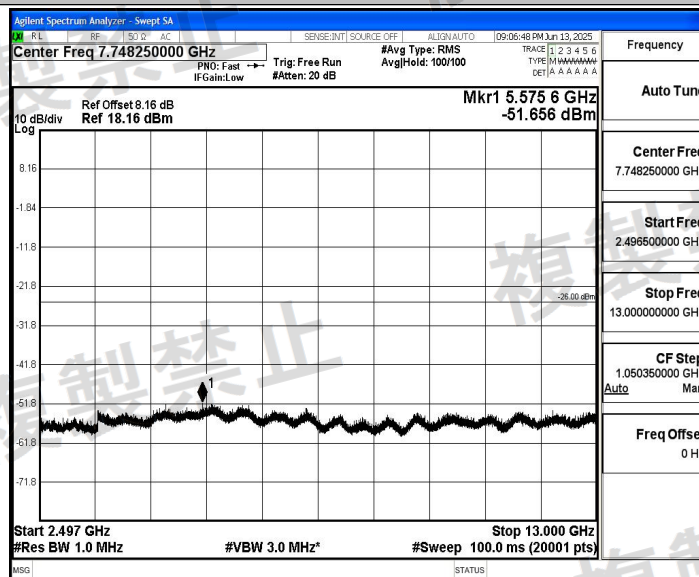
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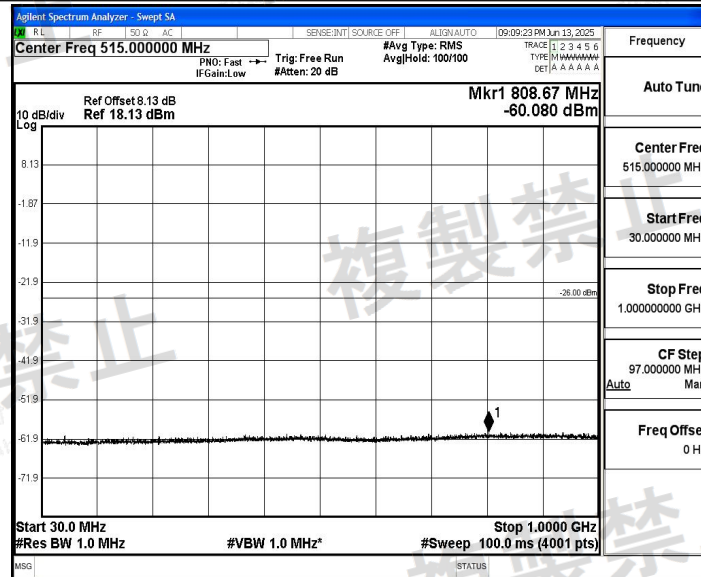
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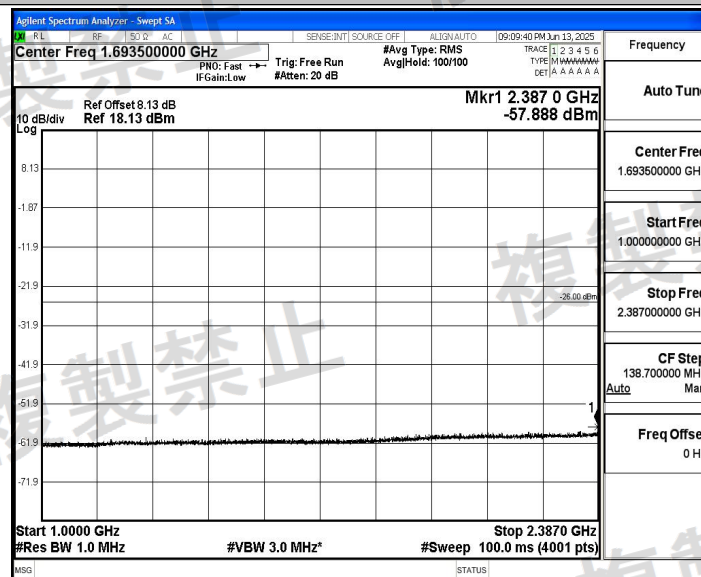
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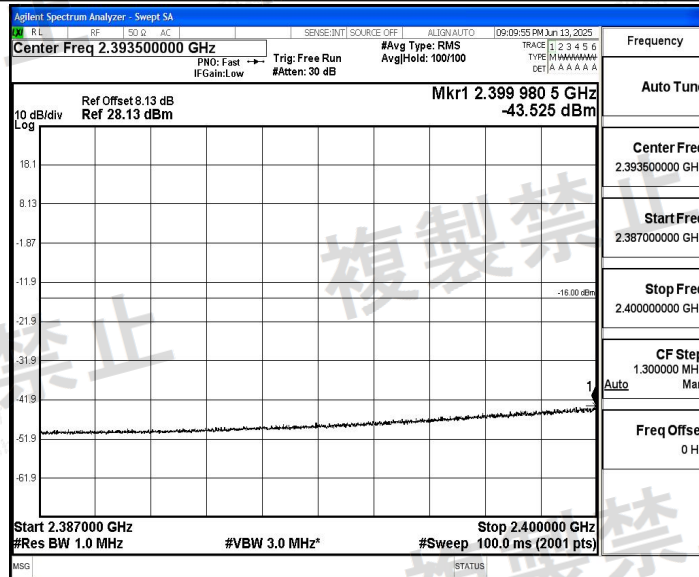
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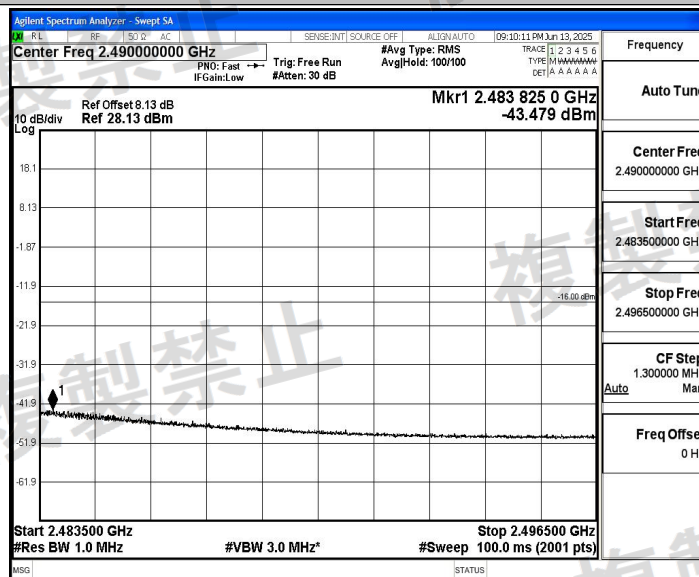
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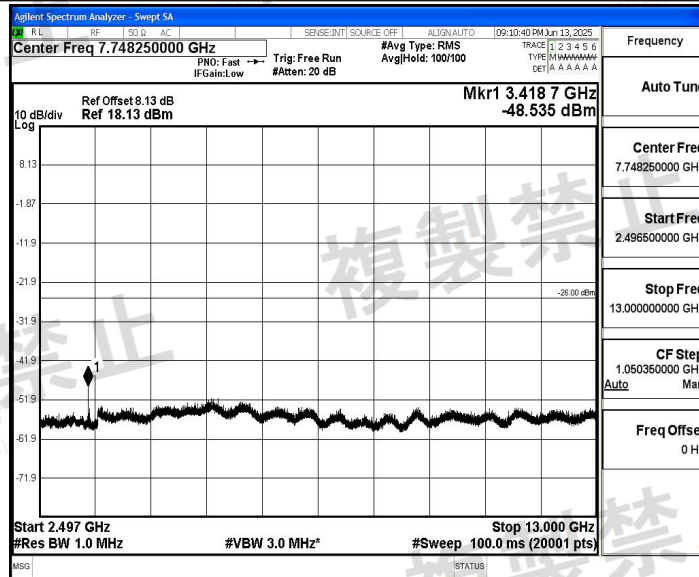
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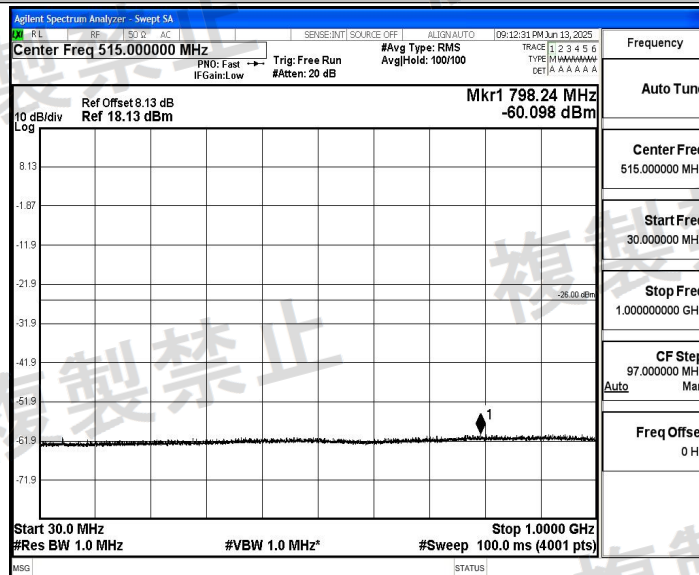
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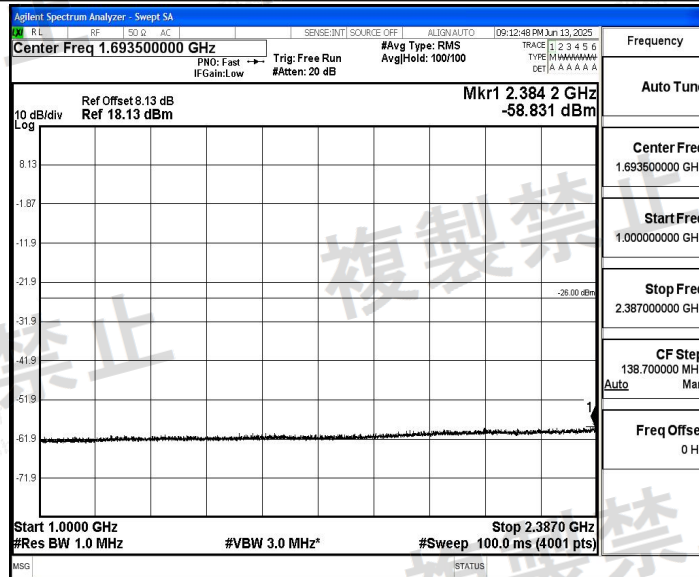
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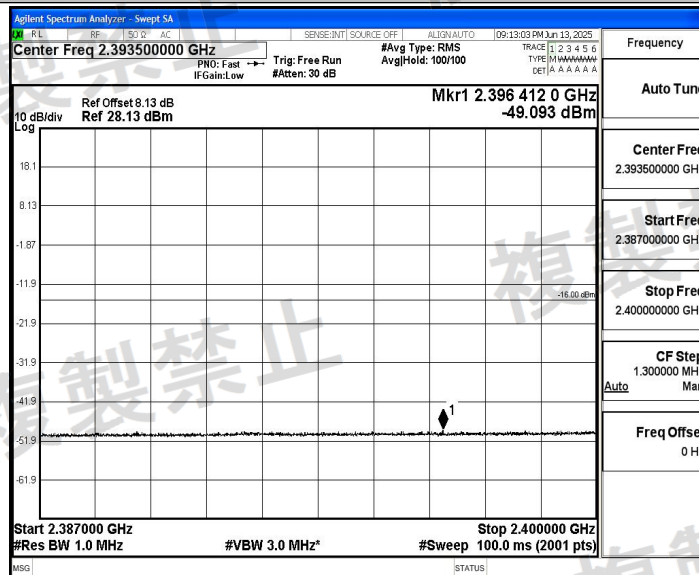
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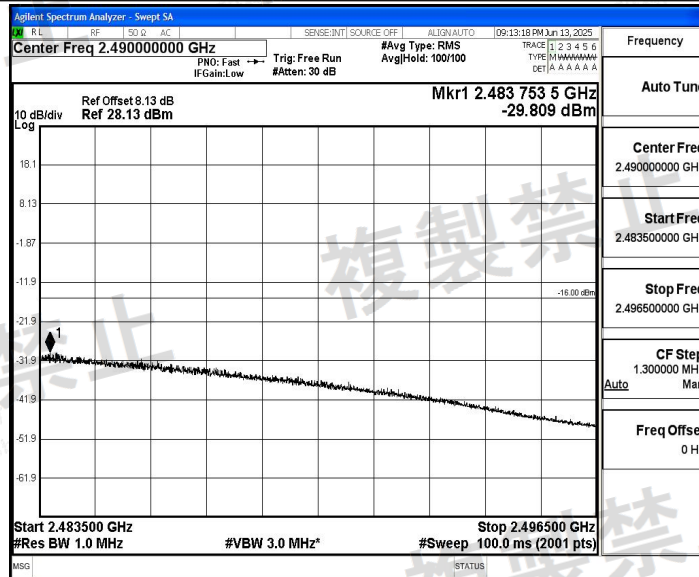
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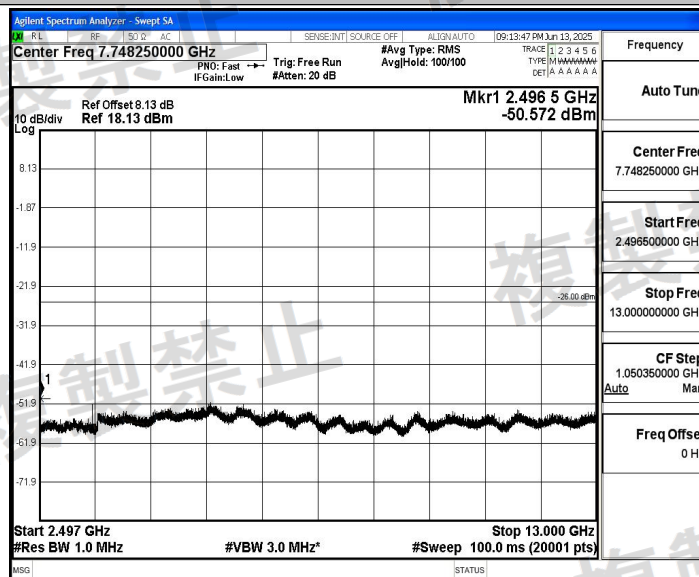
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A.6 Spurious Emission of RX

Test Result

TestCondition	TestMode	Antenna	Channel	Freq.Range [MHz]	Result [dBm]	Limit [dBm]	Result [nW]	Limit [nW]	Verdict
NTNV	11B	Ant1	2412	30~1000	-88.94	≤-54	0.00128	≤4	PASS
				1000~12500	-72.99	≤-47	0.05023	≤20	PASS
			2442	30~1000	-89.38	≤-54	0.00115	≤4	PASS
				1000~12500	-73.28	≤-47	0.04699	≤20	PASS
			2472	30~1000	-89.1	≤-54	0.00123	≤4	PASS
				1000~12500	-73.27	≤-47	0.04710	≤20	PASS
	11G	Ant1	2412	30~1000	-89.51	≤-54	0.00112	≤4	PASS
				1000~12500	-73.29	≤-47	0.04688	≤20	PASS
			2442	30~1000	-87.71	≤-54	0.00169	≤4	PASS
				1000~12500	-72.52	≤-47	0.05598	≤20	PASS
			2472	30~1000	-89.52	≤-54	0.00112	≤4	PASS
				1000~12500	-73.66	≤-47	0.04305	≤20	PASS
	11N20SISO	Ant1	2412	30~1000	-88.83	≤-54	0.00131	≤4	PASS
				1000~12500	-73.59	≤-47	0.04375	≤20	PASS
			2442	30~1000	-88.9	≤-54	0.00129	≤4	PASS
				1000~12500	-73.15	≤-47	0.04842	≤20	PASS
			2472	30~1000	-89.05	≤-54	0.00124	≤4	PASS
				1000~12500	-73.25	≤-47	0.04732	≤20	PASS
	11N40SISO	Ant1	2422	30~1000	-89.11	≤-54	0.00123	≤4	PASS
				1000~12500	-73.05	≤-47	0.04955	≤20	PASS
			2442	30~1000	-89.48	≤-54	0.00113	≤4	PASS
				1000~12500	-73.21	≤-47	0.04775	≤20	PASS
			2462	30~1000	-89.64	≤-54	0.00109	≤4	PASS
				1000~12500	-73.24	≤-47	0.04742	≤20	PASS



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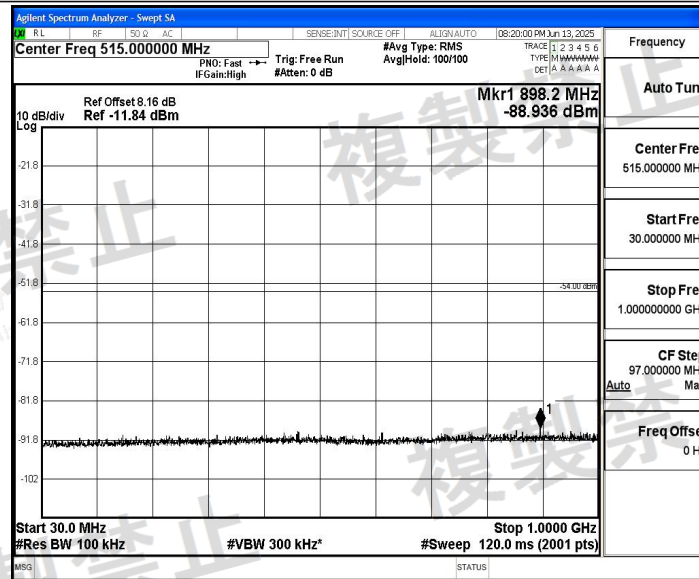
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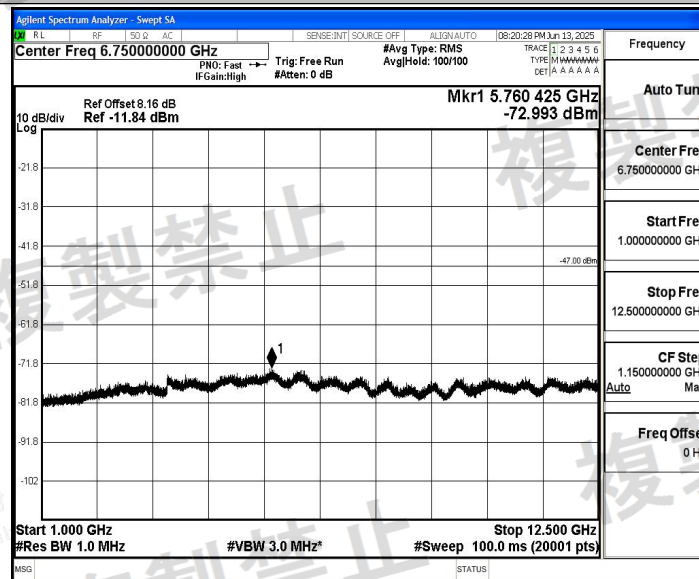


Test Graphs

NTNV_11B_Ant1_2412_30~1000



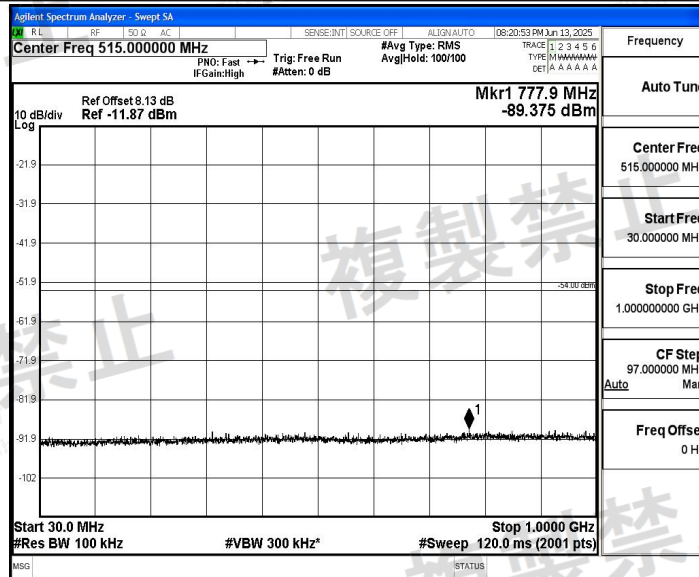
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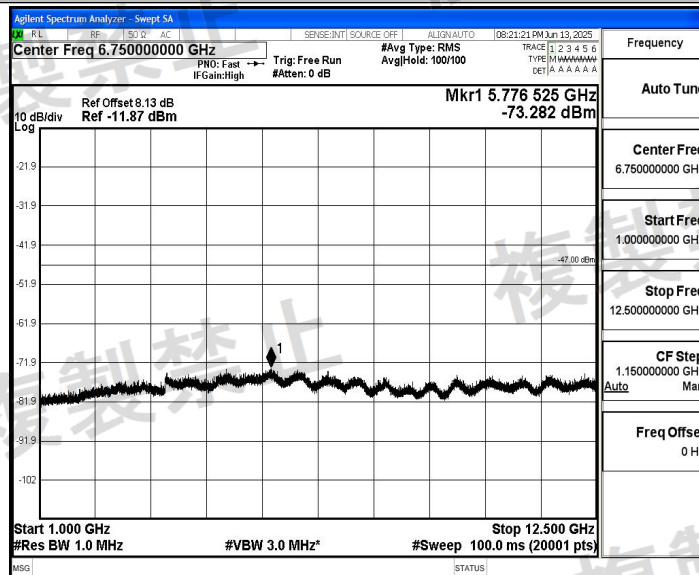
NTNV_11B_Ant1_2442_30~1000



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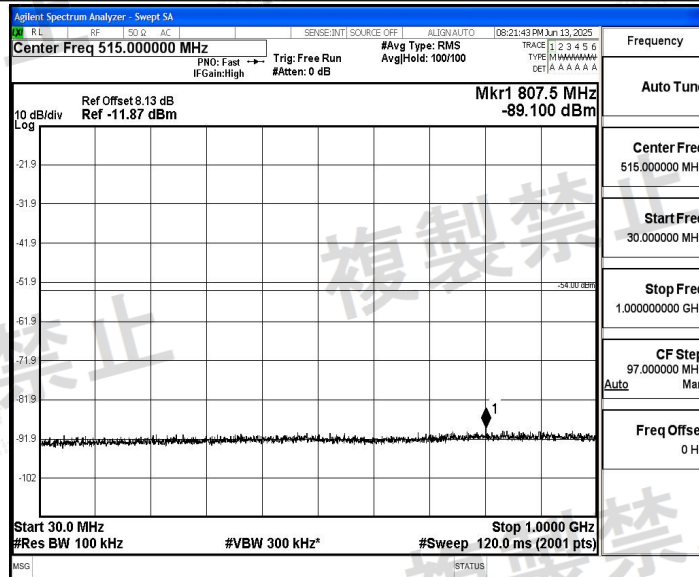
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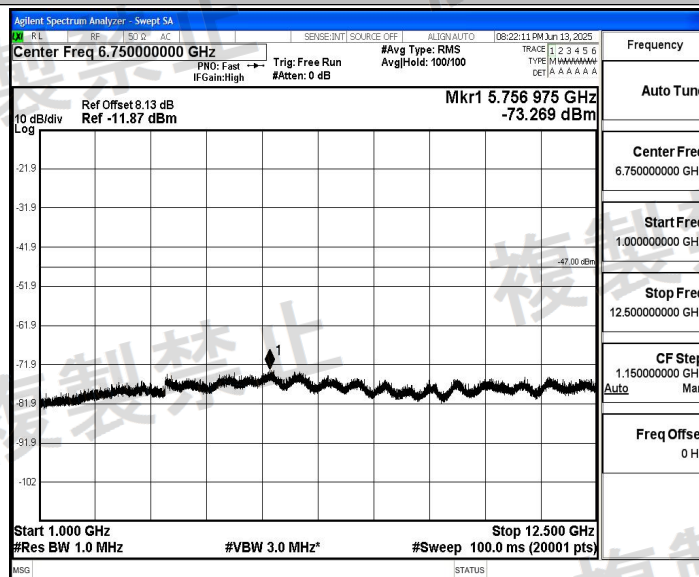
NTNV_11B_Ant1_2472_30~1000



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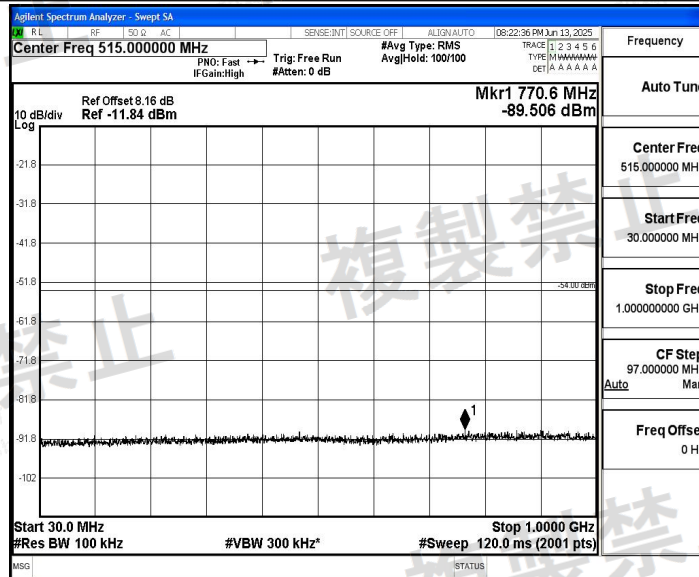


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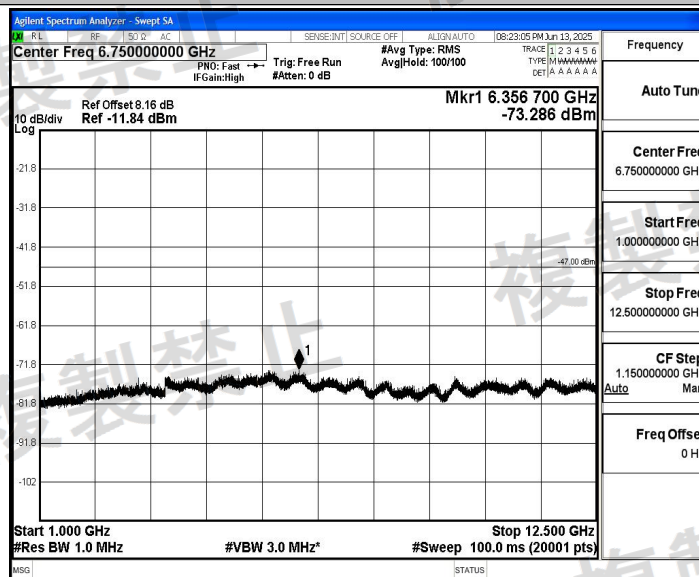


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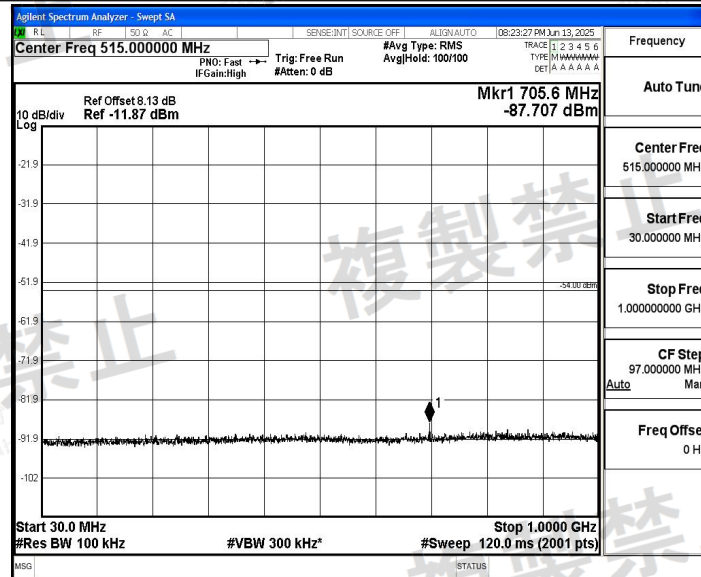


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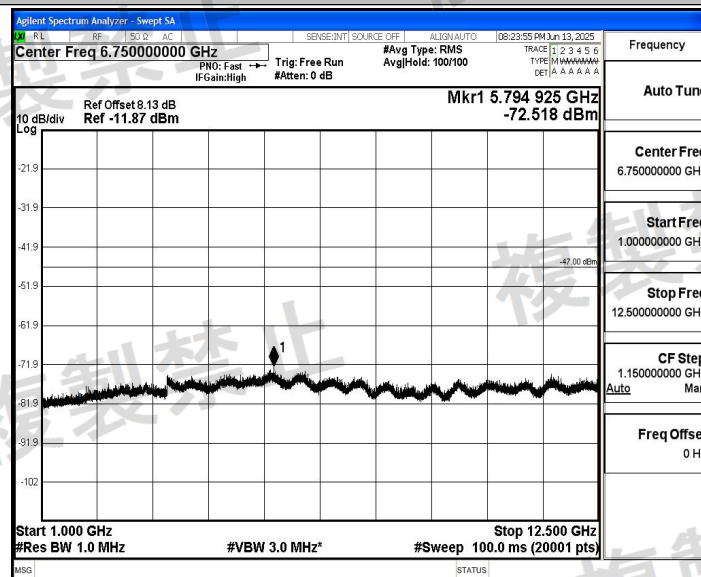


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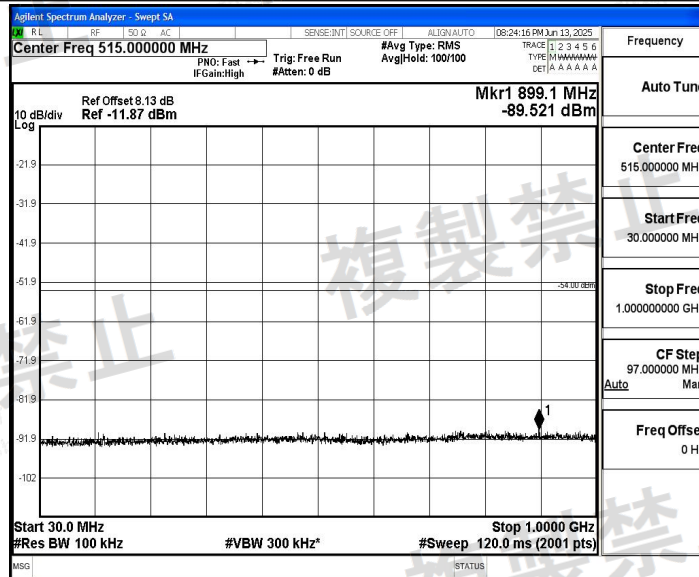
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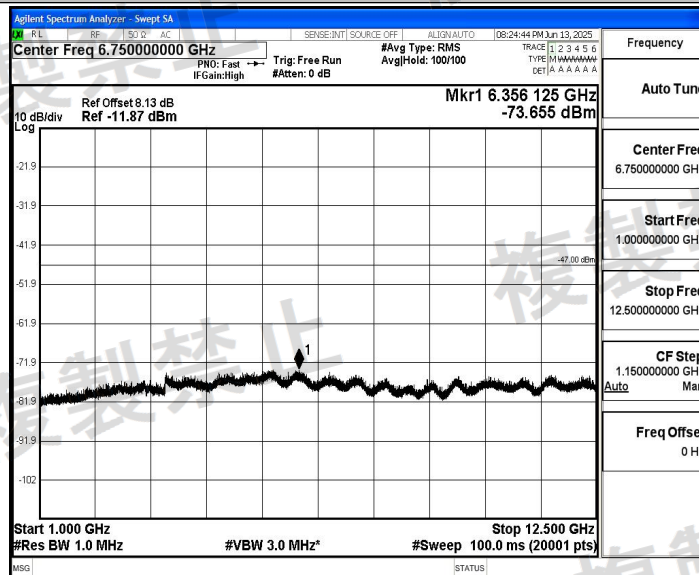
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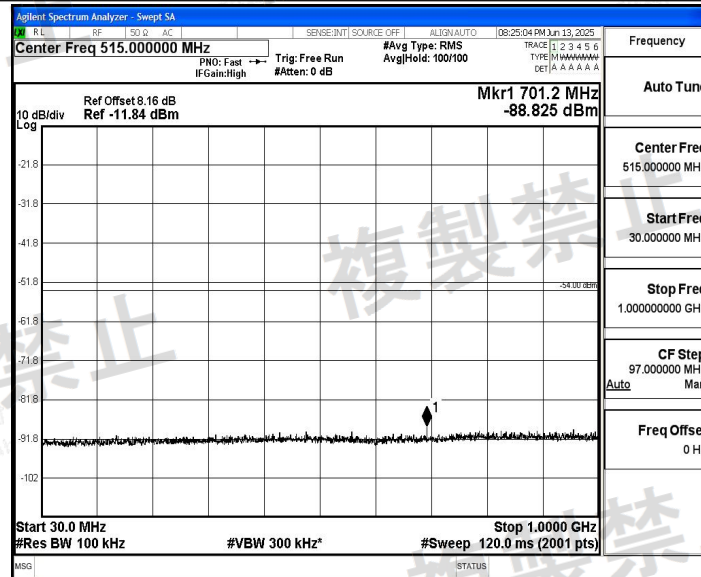


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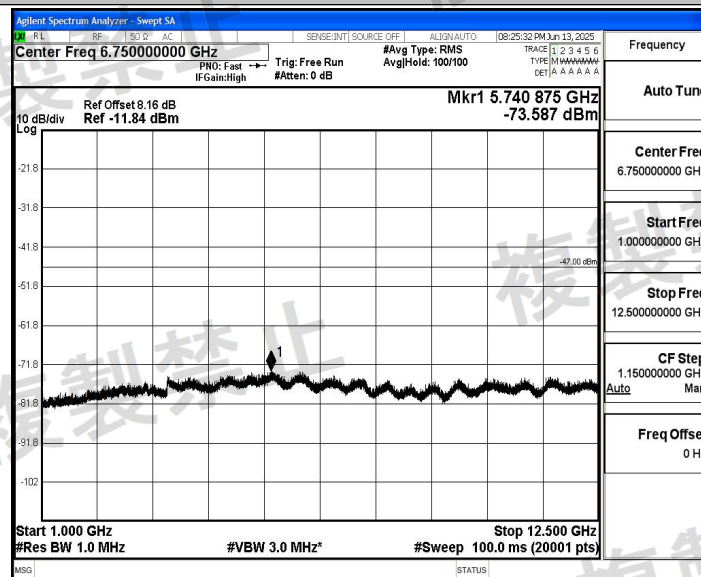


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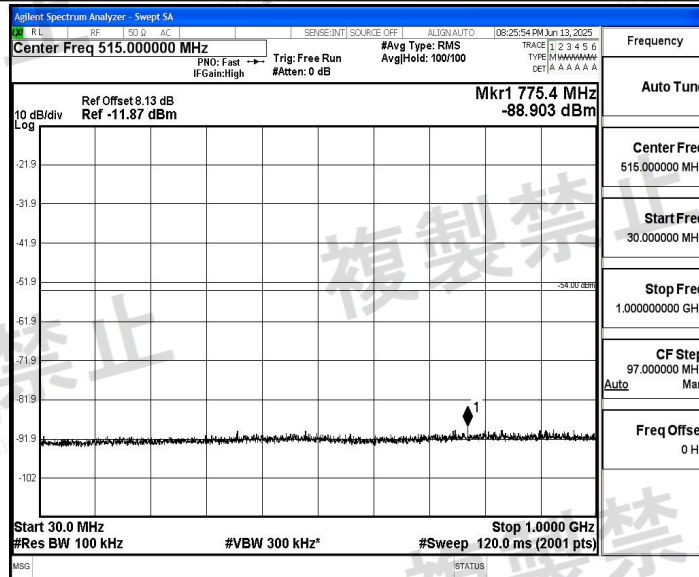
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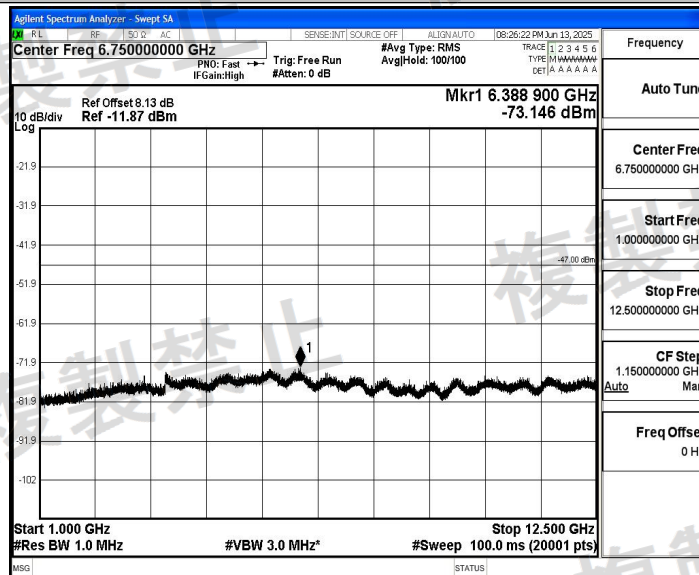
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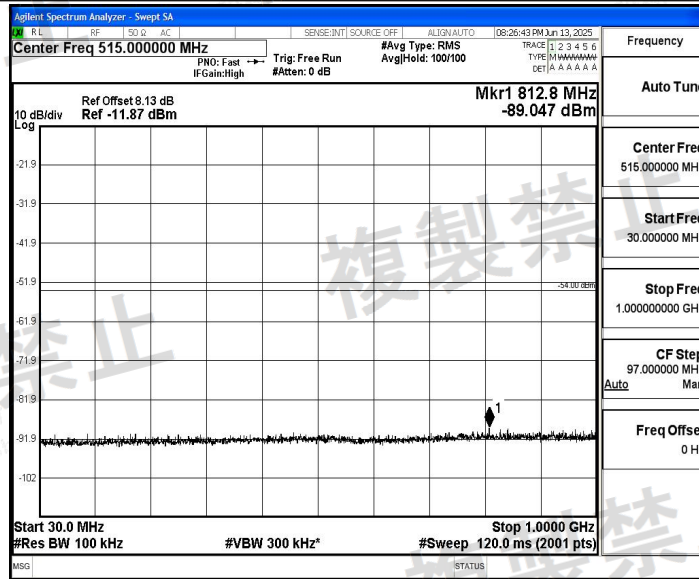
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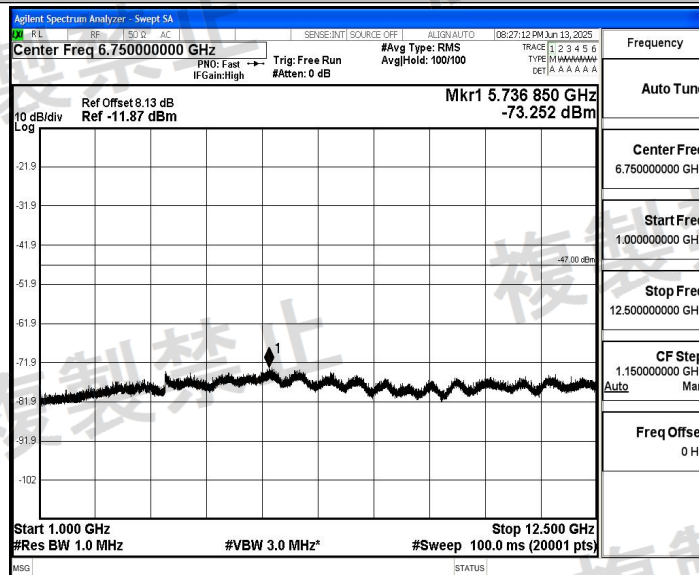
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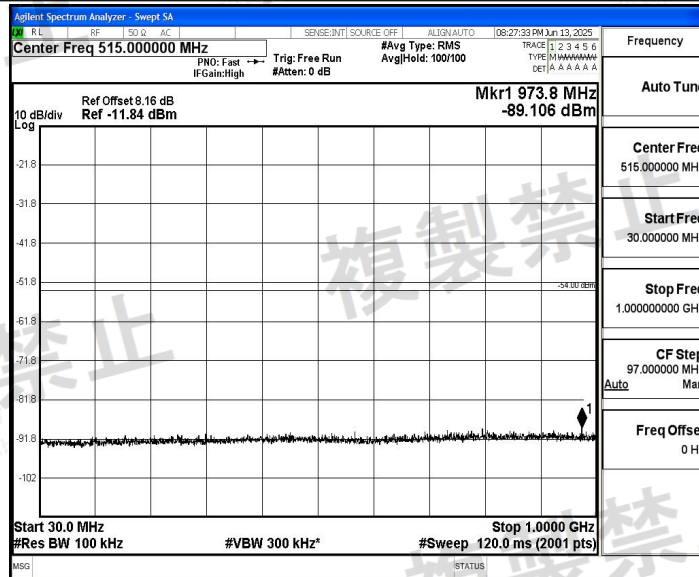
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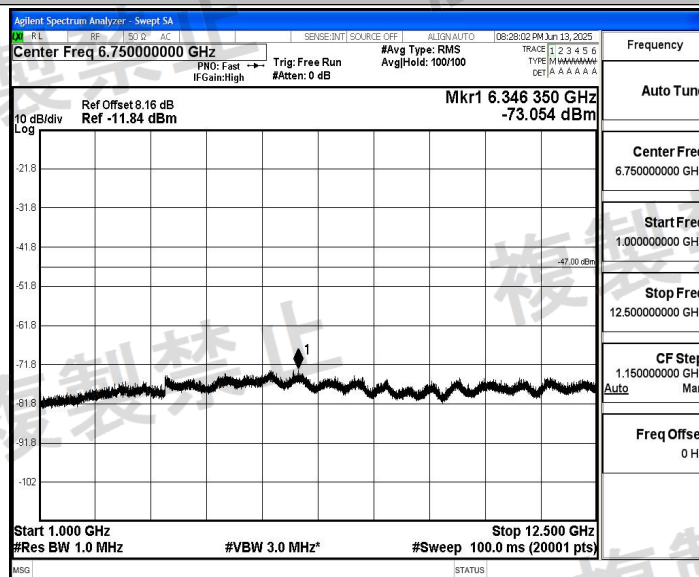
NTNV_11N40SISO_Ant1_2422_30~1000



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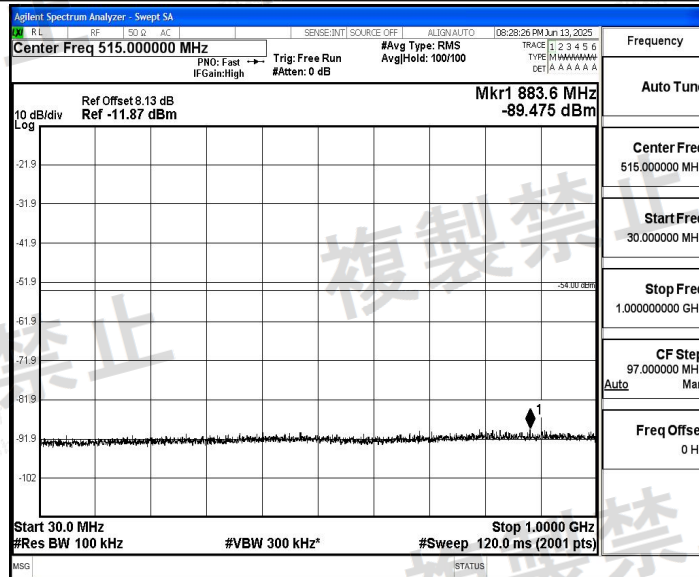
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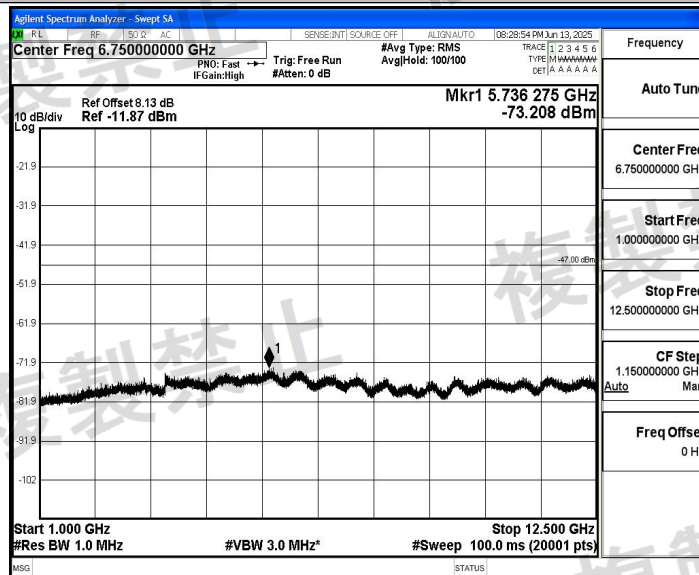
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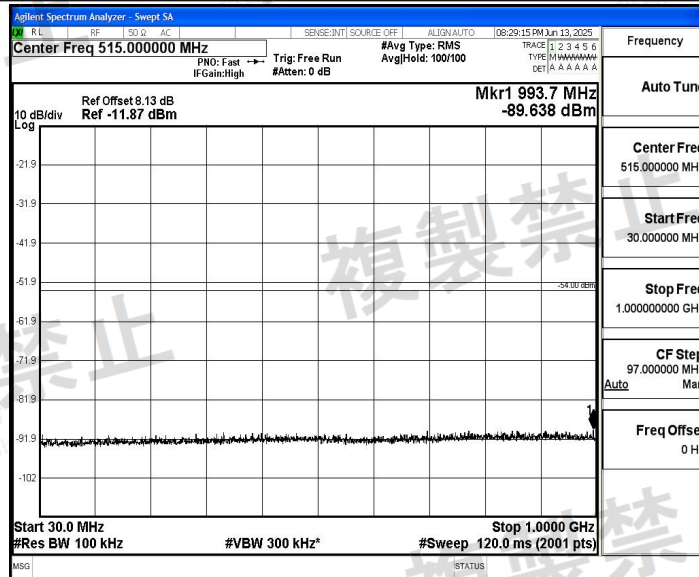
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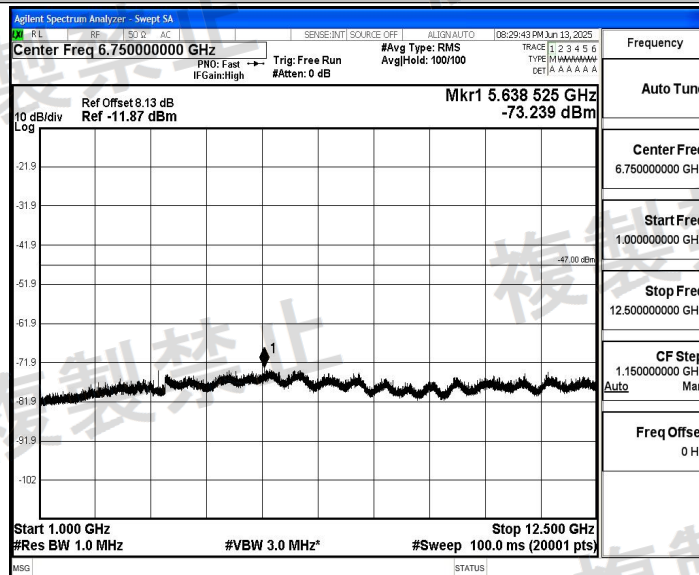
NTNV_11N40SISO_Ant1_2462_30~1000



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