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Annex for 2.4G Wi-Fi

Test Report No.: CTL2508292011-MIC02

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MIC: 219-259586

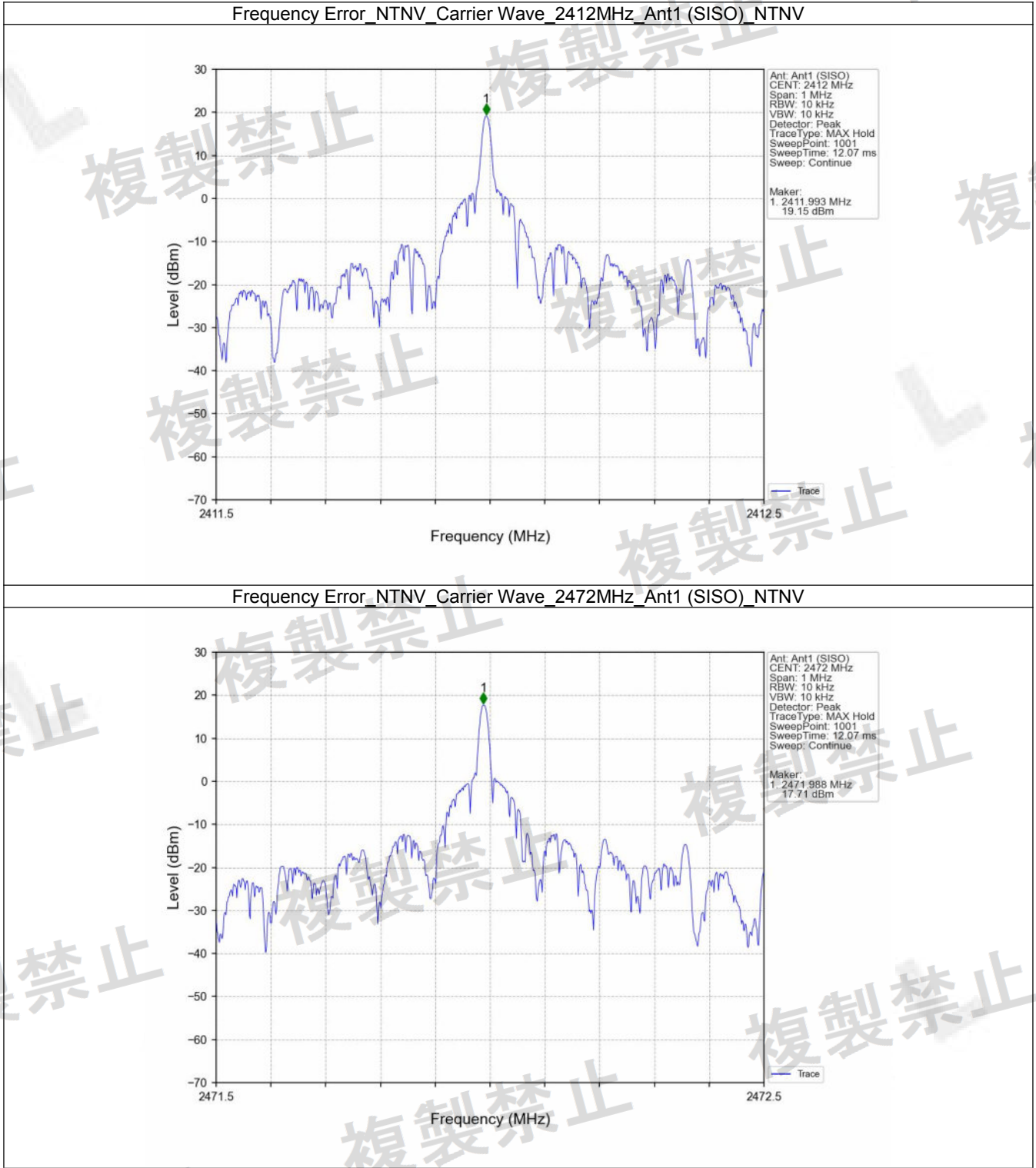
1. Frequency Error**1.1 Test Result****1.1.1 Ant1**

Ant1							
ENV	Mode	TX Type	Frequency (MHz)	Measured Frequency (MHz)	Tolerance (ppm)		Verdict
					Result	Limit	
NTNV	Carrier Wave	SISO	2412	2411.993	-2.90	-50 to 50	Pass
			2472	2471.988	-4.85	-50 to 50	Pass
			2484	2483.988	-4.83	-50 to 50	Pass
			2422	2421.986	-5.78	-50 to 50	Pass
			2462	2461.989	-4.47	-50 to 50	Pass
NTLV	Carrier Wave	SISO	2412	2411.994	-2.49	-50 to 50	Pass
			2472	2471.990	-4.05	-50 to 50	Pass
			2484	2483.989	-4.43	-50 to 50	Pass
			2422	2421.989	-4.54	-50 to 50	Pass
			2462	2461.992	-3.25	-50 to 50	Pass
NTHV	Carrier Wave	SISO	2412	2411.995	-2.07	-50 to 50	Pass
			2472	2471.991	-3.64	-50 to 50	Pass
			2484	2483.990	-4.03	-50 to 50	Pass
			2422	2421.991	-3.72	-50 to 50	Pass
			2462	2461.994	-2.44	-50 to 50	Pass

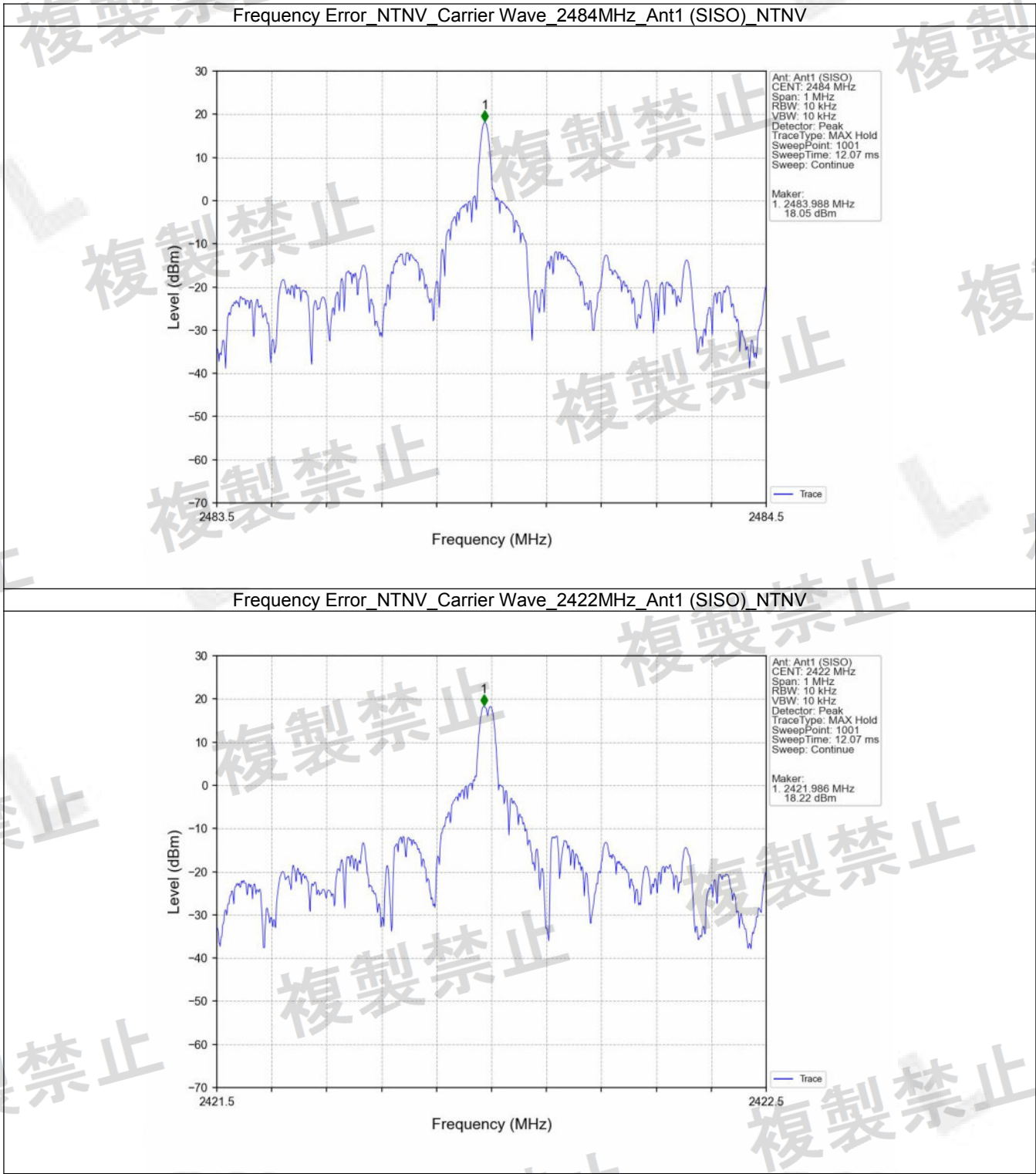
MIC: 219-259586

1.2 Test Graph

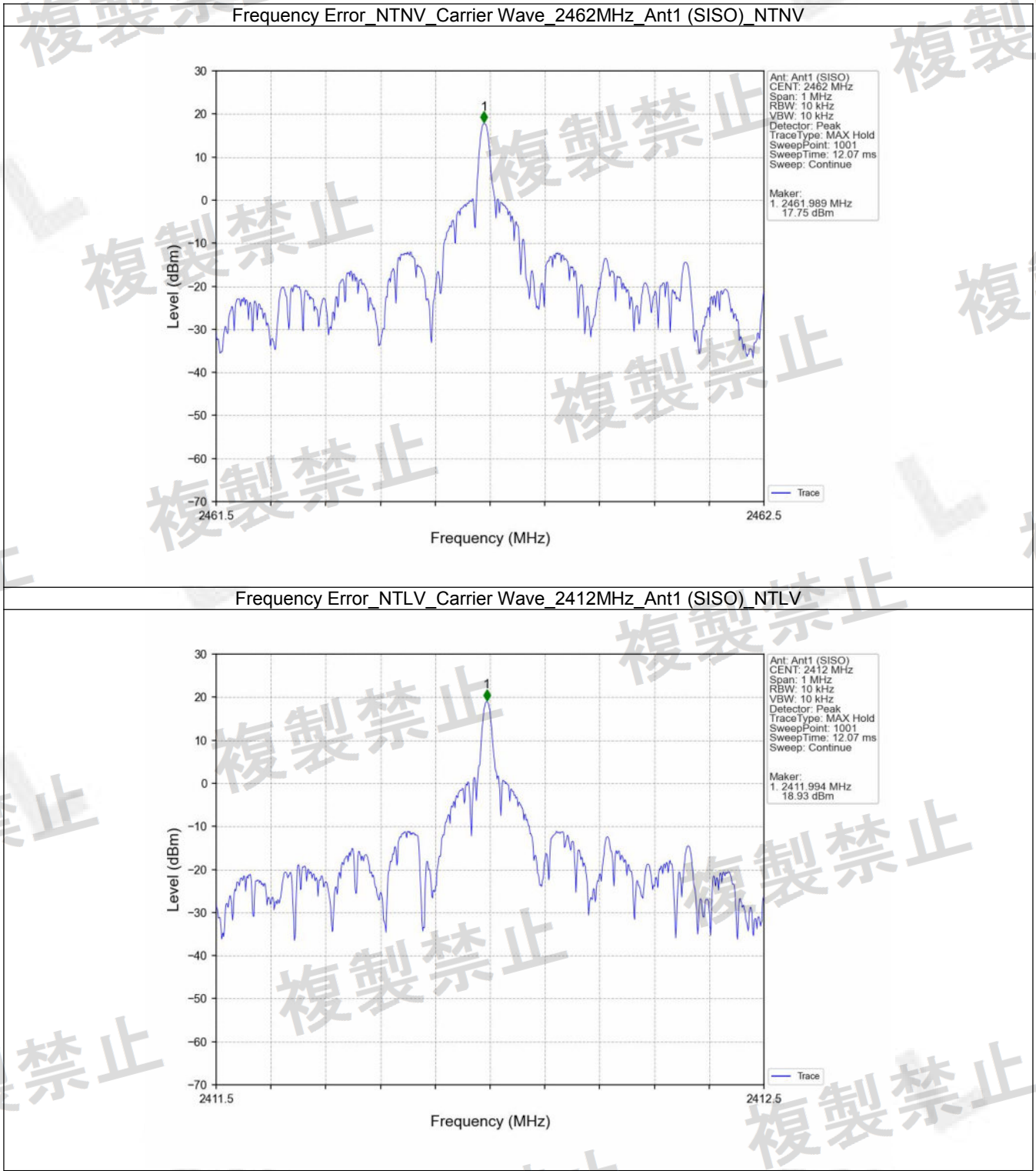
1.2.1 Ant1



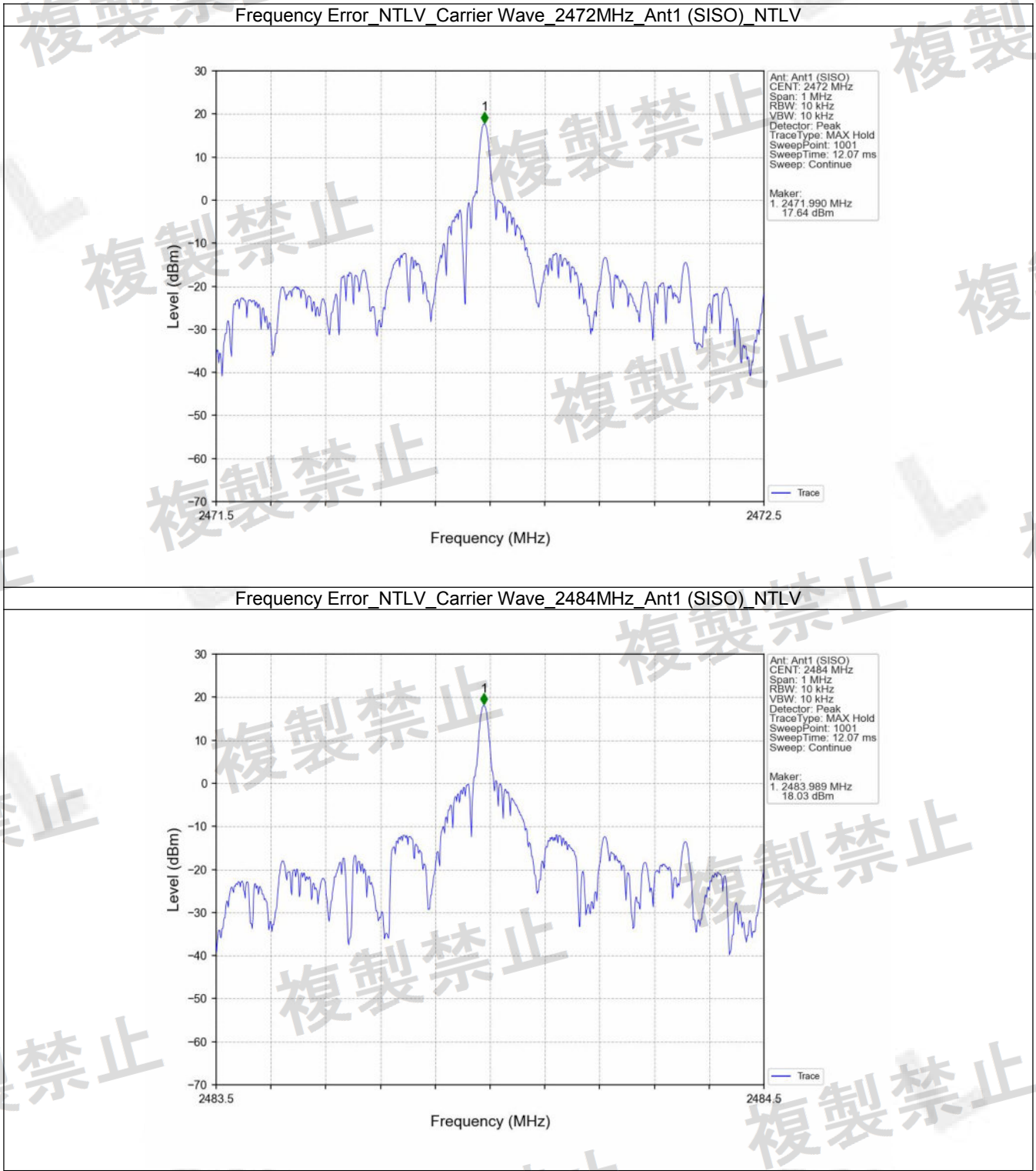
MIC: 219-259586



MIC: 219-259586

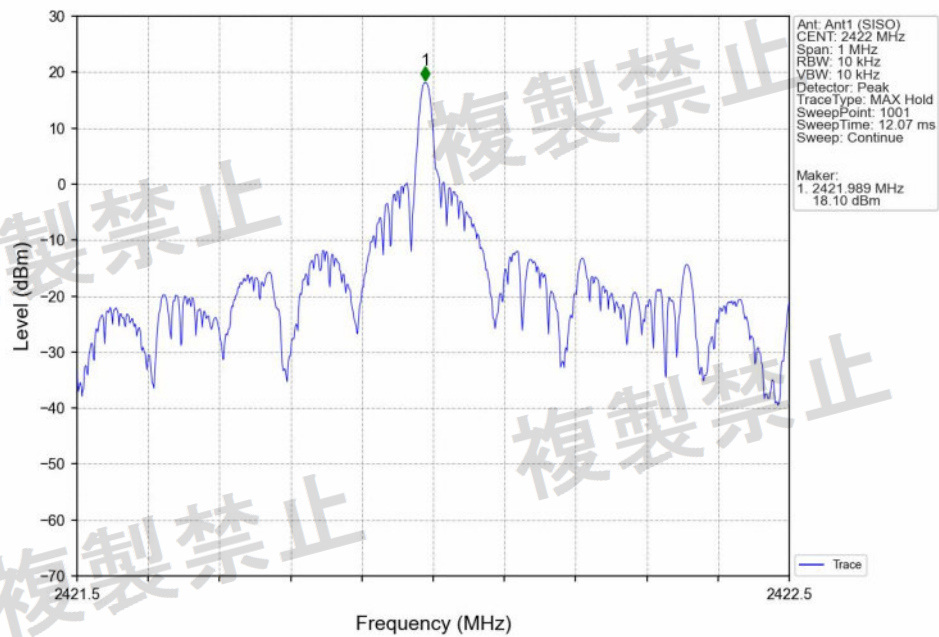


MIC: 219-259586

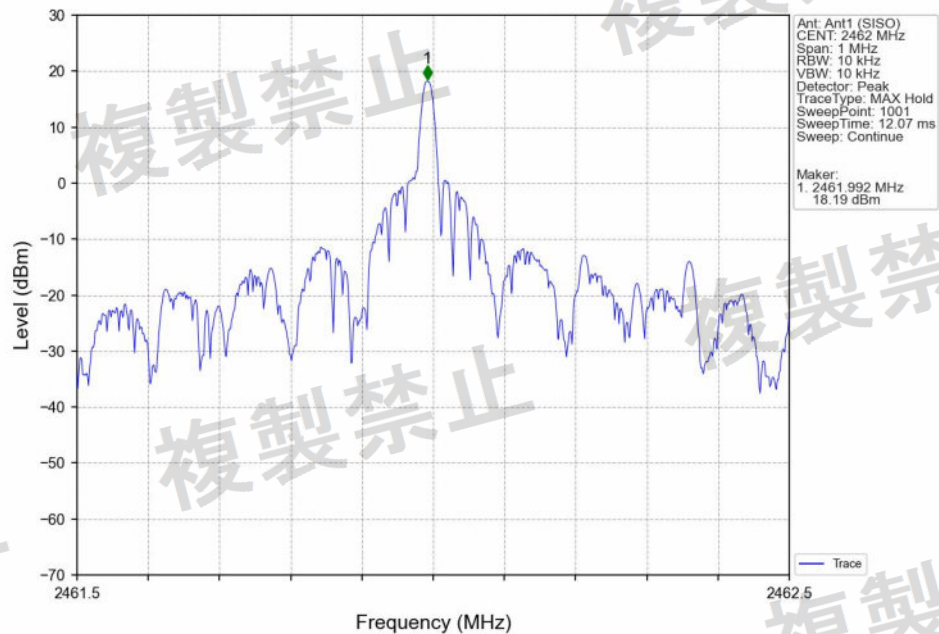


MIC: 219-259586

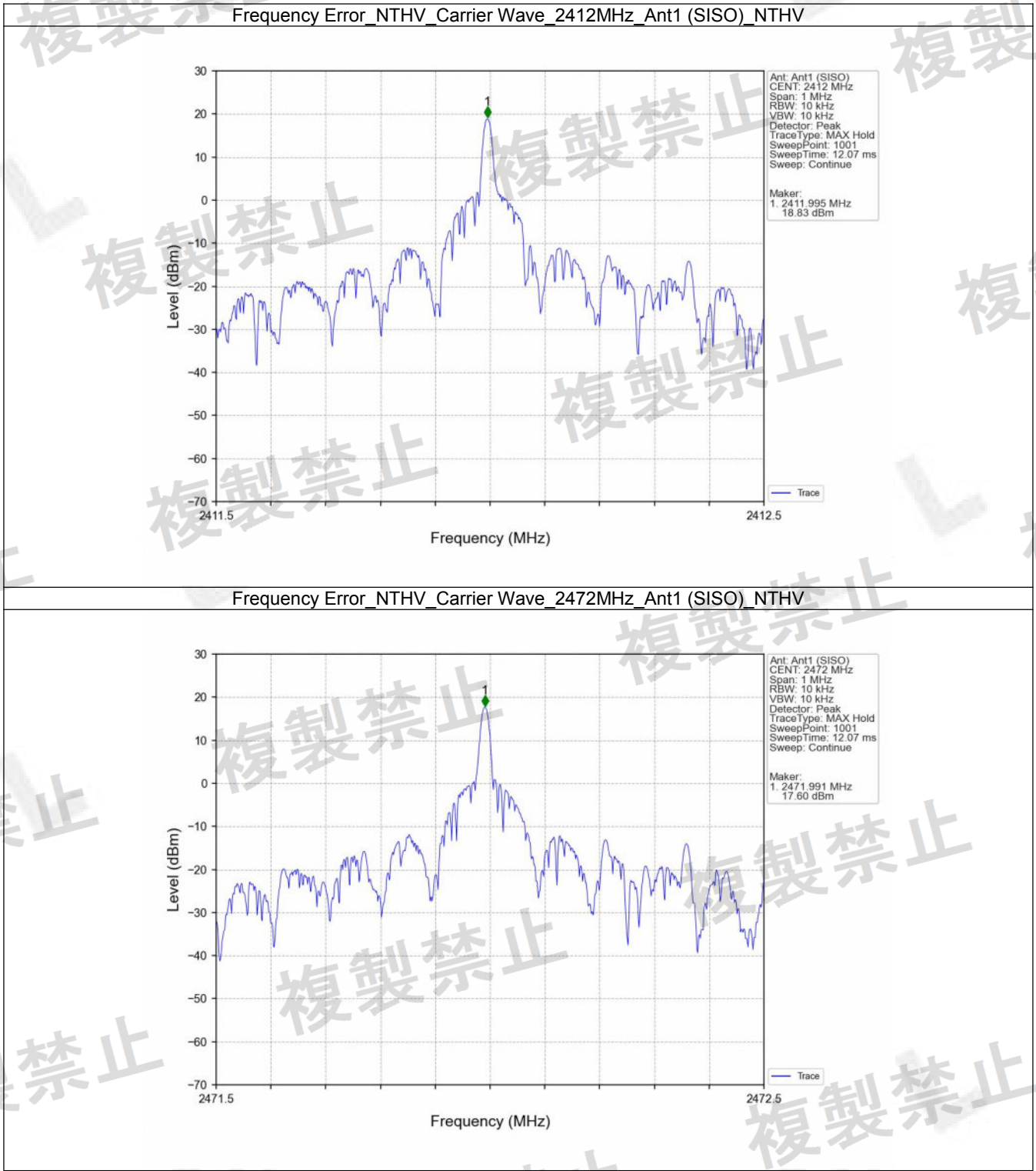
Frequency Error_NTLV_Carrier Wave_2422MHz_Ant1 (SISO)_NTLV



Frequency Error_NTLV_Carrier Wave_2462MHz_Ant1 (SISO)_NTLV

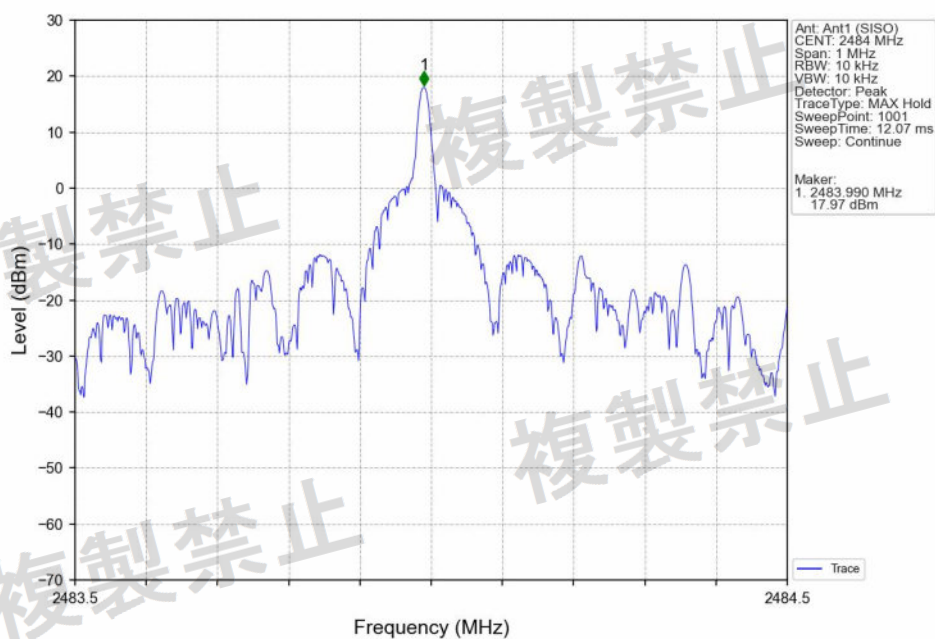


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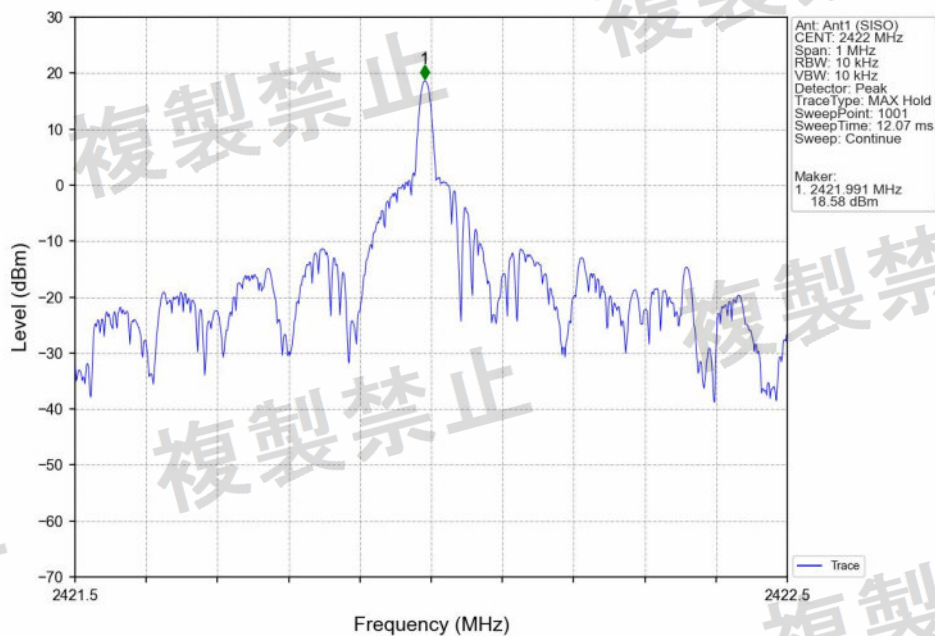


MIC: 219-259586

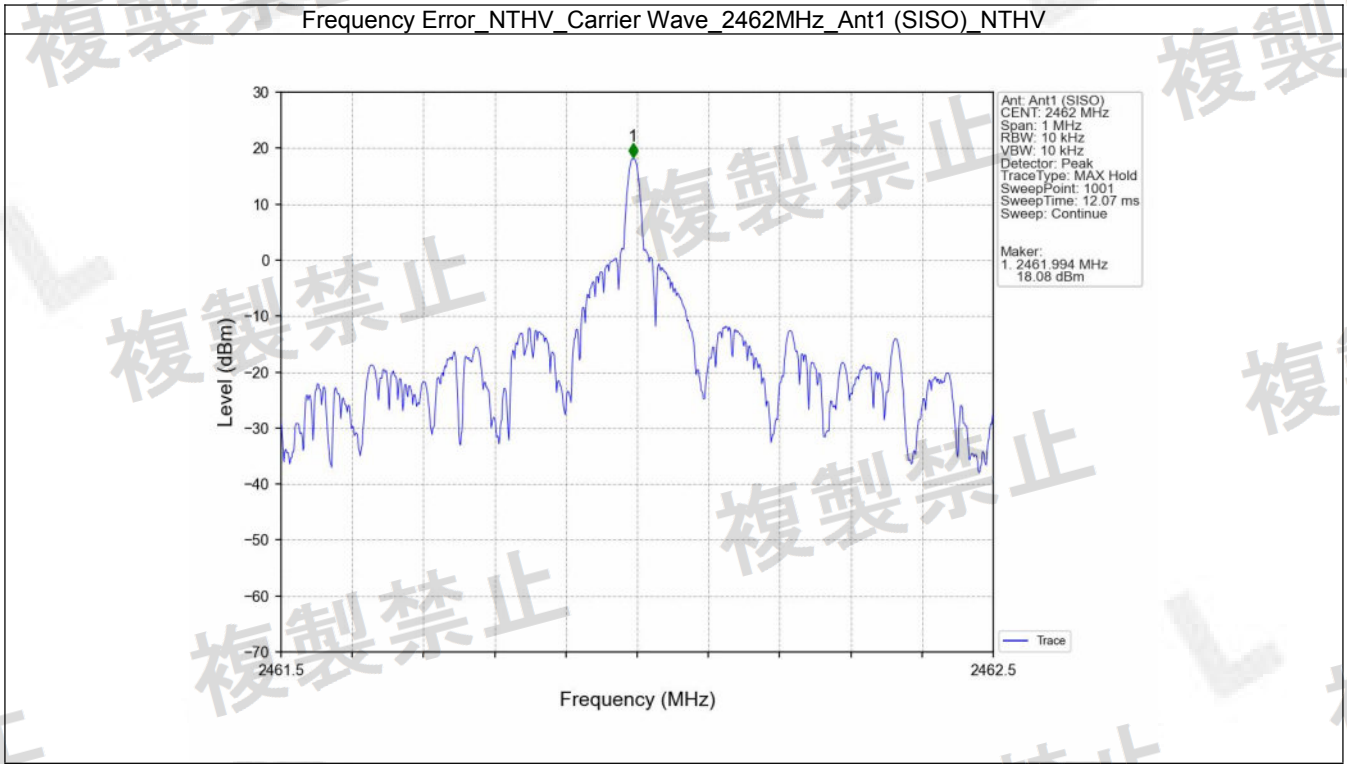
Frequency Error_NTHV_Carrier Wave_2484MHz_Ant1 (SISO)_NTHV



Frequency Error_NTHV_Carrier Wave_2422MHz_Ant1 (SISO)_NTHV



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2. Occupied Bandwidth and Spread Bandwidth

2.1 Test Result

2.1.1 OBW

ENV	Mode	TX Type	Frequency (MHz)	RU	RU Pos	99% Occupied Bandwidth (MHz)		Verdict
						ANT1	Limit	
NTNV	802.11b	SISO	2412	/	/	16.134	<=26	Pass
			2472	/	/	16.173	<=26	Pass
			2484	/	/	16.128	<=26	Pass
	802.11g	SISO	2412	/	/	16.899	<=26	Pass
			2472	/	/	17.796	<=26	Pass
	802.11n (HT20)	SISO	2412	/	/	18.331	<=26	Pass
			2472	/	/	18.405	<=26	Pass
	802.11n (HT40)	SISO	2422	/	/	37.618	<=40	Pass
			2462	/	/	36.591	<=40	Pass
	802.11ax (HEW20)	SISO	2412	SU	/	18.964	<=26	Pass
			2472	SU	/	19.158	<=26	Pass
NTLV	802.11b	SISO	2412	/	/	16.134	<=26	Pass
			2472	/	/	16.171	<=26	Pass
			2484	/	/	16.127	<=26	Pass
	802.11g	SISO	2412	/	/	16.887	<=26	Pass
			2472	/	/	17.874	<=26	Pass
	802.11n (HT20)	SISO	2412	/	/	18.565	<=26	Pass
			2472	/	/	18.473	<=26	Pass
	802.11n (HT40)	SISO	2422	/	/	36.806	<=40	Pass
			2462	/	/	36.547	<=40	Pass
	802.11ax (HEW20)	SISO	2412	SU	/	18.966	<=26	Pass
			2472	SU	/	19.125	<=26	Pass
NTHV	802.11b	SISO	2412	/	/	16.141	<=26	Pass
			2472	/	/	16.180	<=26	Pass
			2484	/	/	16.126	<=26	Pass
	802.11g	SISO	2412	/	/	16.899	<=26	Pass
			2472	/	/	17.965	<=26	Pass
	802.11n (HT20)	SISO	2412	/	/	19.321	<=26	Pass
			2472	/	/	18.957	<=26	Pass
	802.11n (HT40)	SISO	2422	/	/	37.020	<=40	Pass
			2462	/	/	36.534	<=40	Pass
	802.11ax (HEW20)	SISO	2412	SU	/	18.948	<=26	Pass
			2472	SU	/	19.121	<=26	Pass

2.1.2 Spread Bandwidth

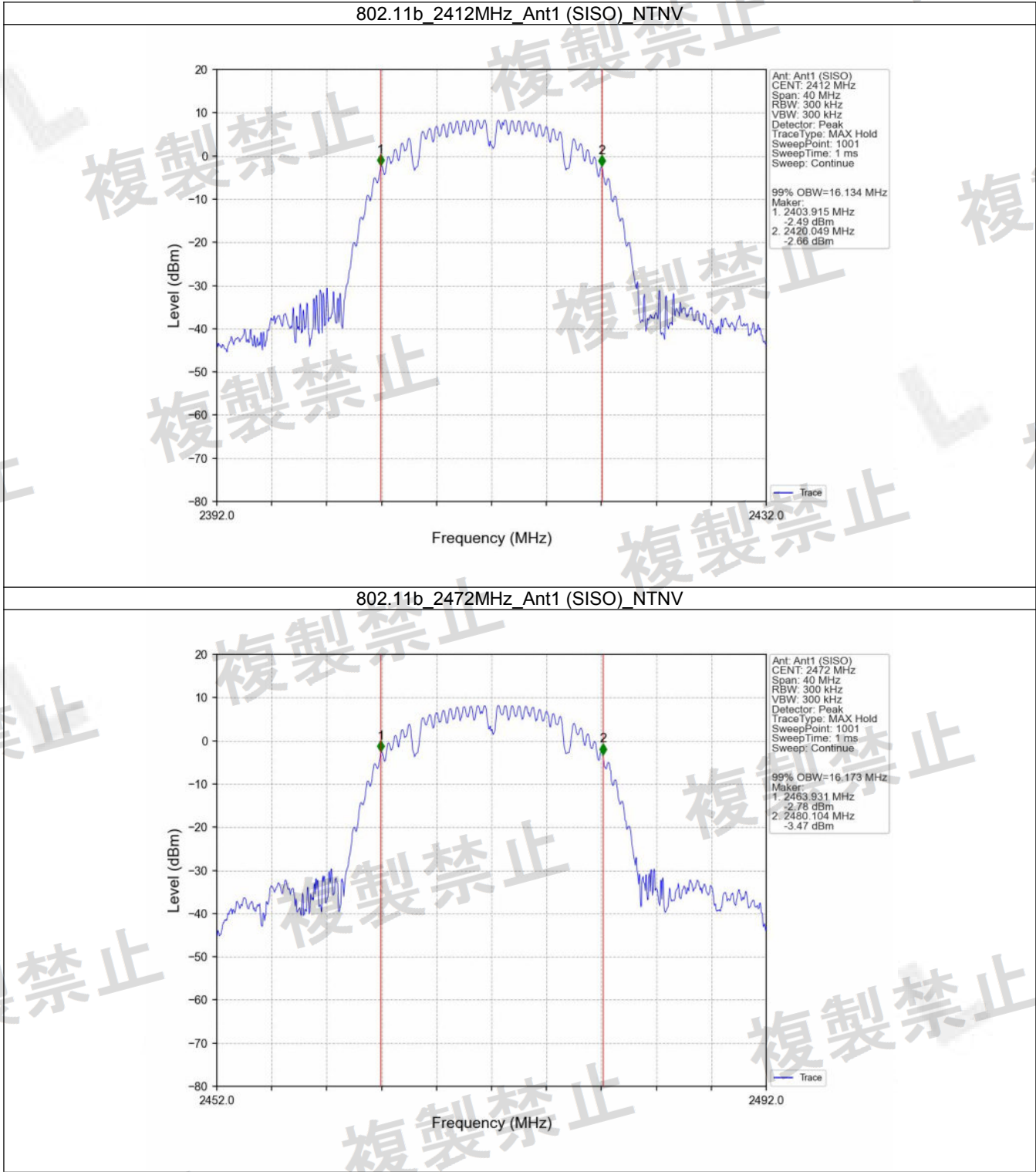
ENV	Mode	TX Type	Frequency (MHz)	Spread Bandwidth (MHz)	Spread Factor	Limit	Verdict
				ANT1			
NTNV	802.11b	SISO	2484	13.896	10.110	>10	Pass
NTLV	802.11b	SISO	2484	13.898	10.110	>10	Pass
NTHV	802.11b	SISO	2484	13.897	10.110	>10	Pass

Note : Spread Factor=Spread Bandwidth/modulation rate. The modulation rate: MR=1.375Mbps for 802.11b.

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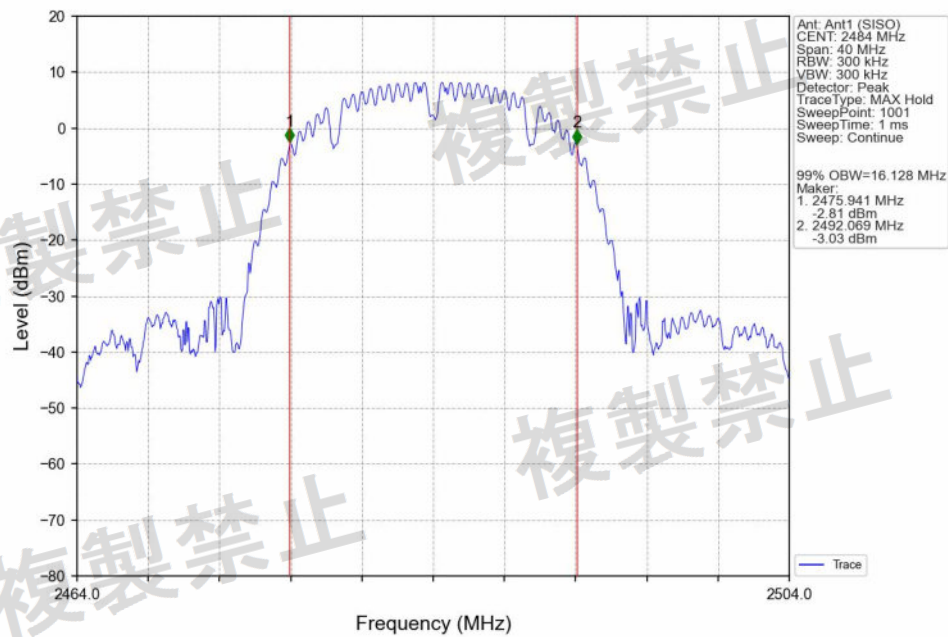
2.2 Test Graph

2.2.1 OBW

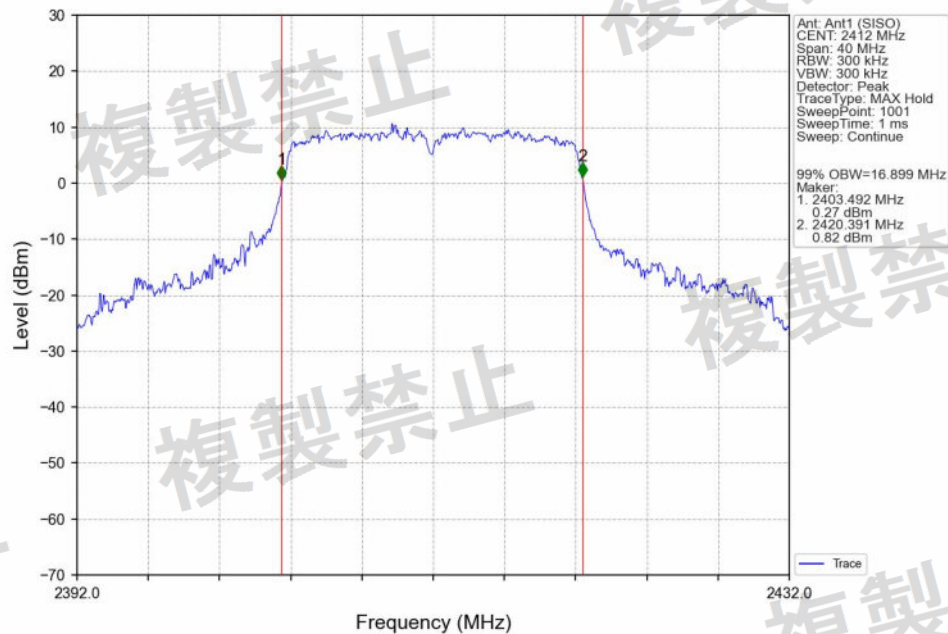


MIC: 219-259586

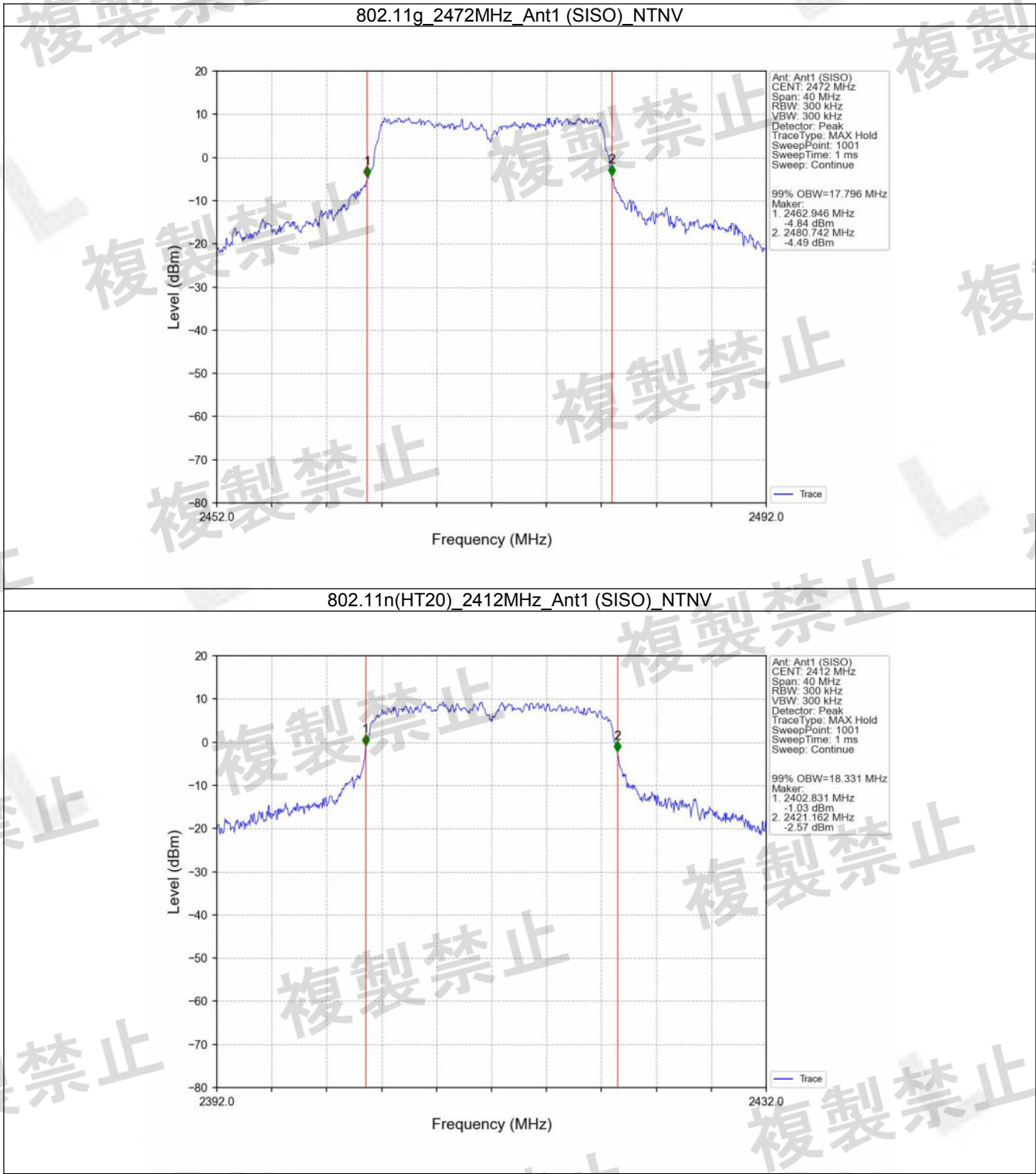
802.11b_2484MHz_Ant1 (SISO)_NTNV



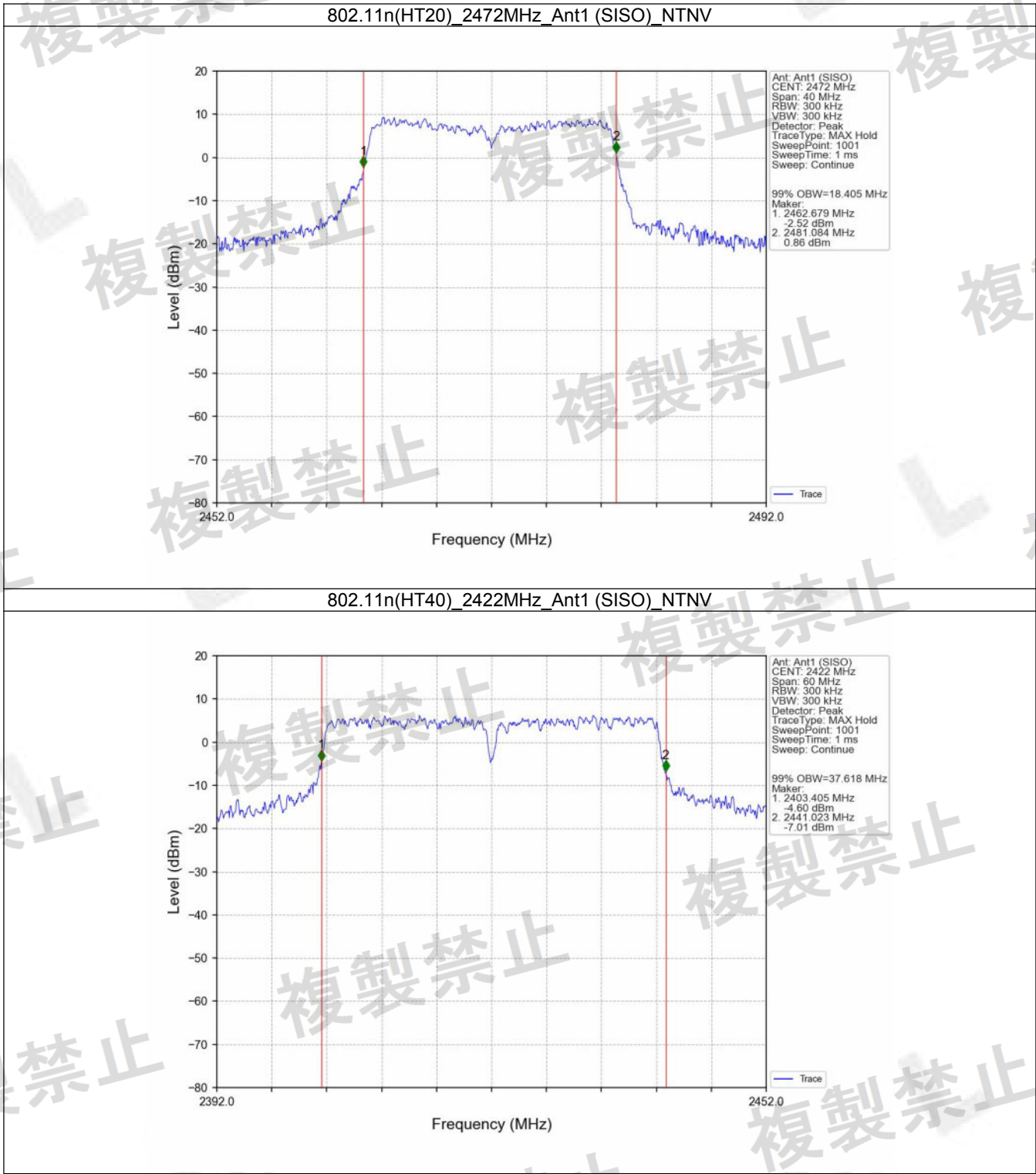
802.11g_2412MHz_Ant1 (SISO)_NTNV



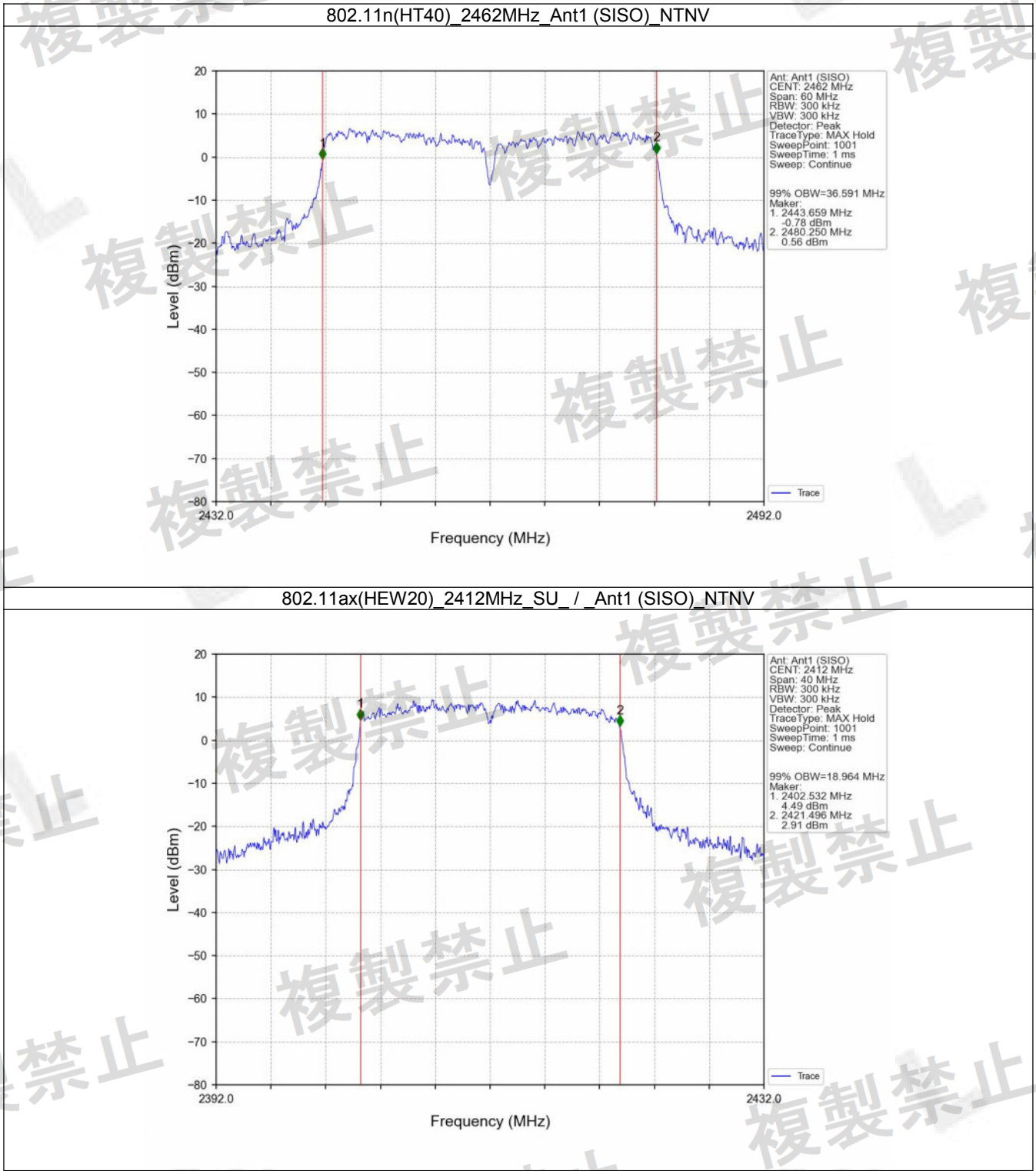
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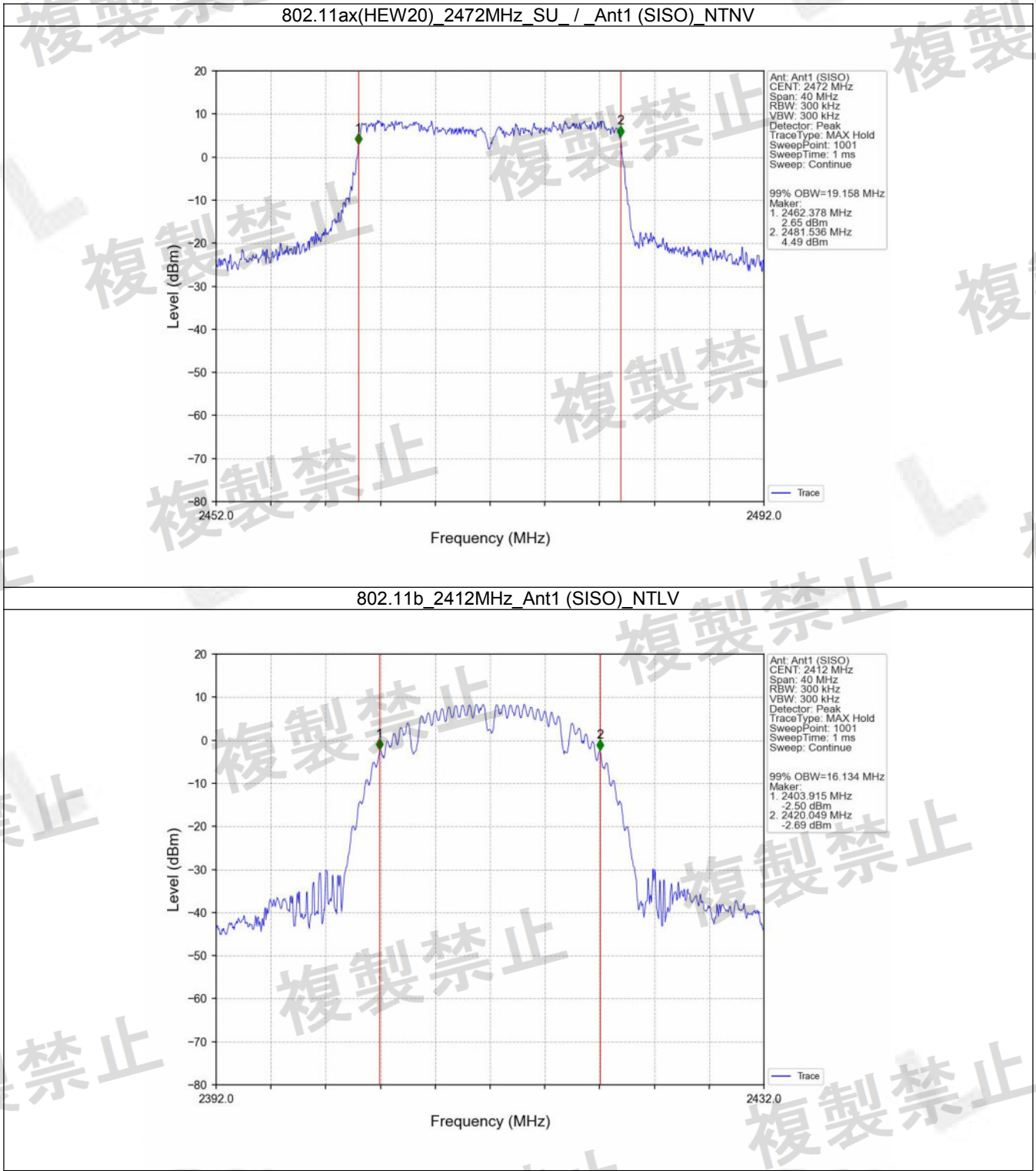
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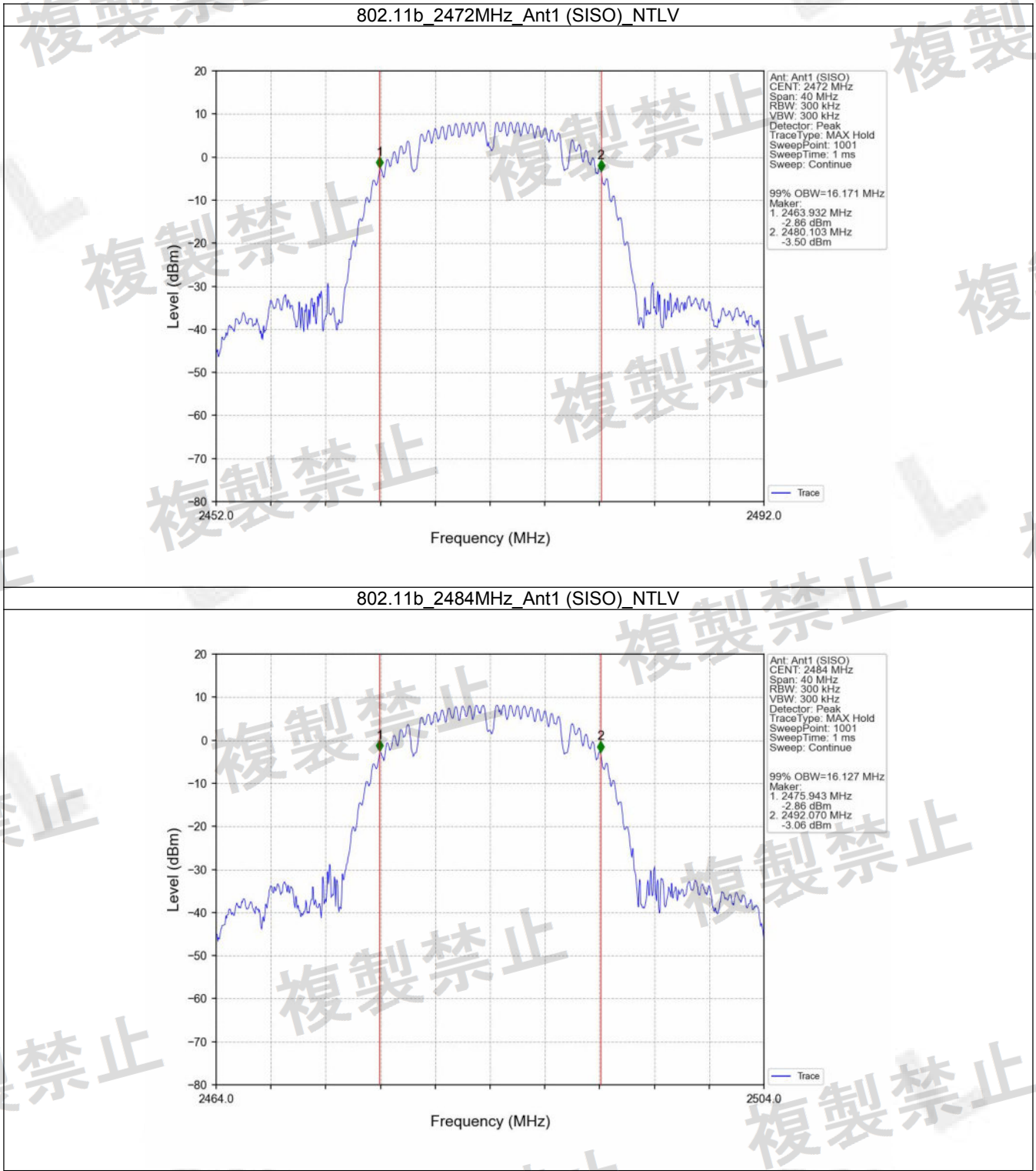
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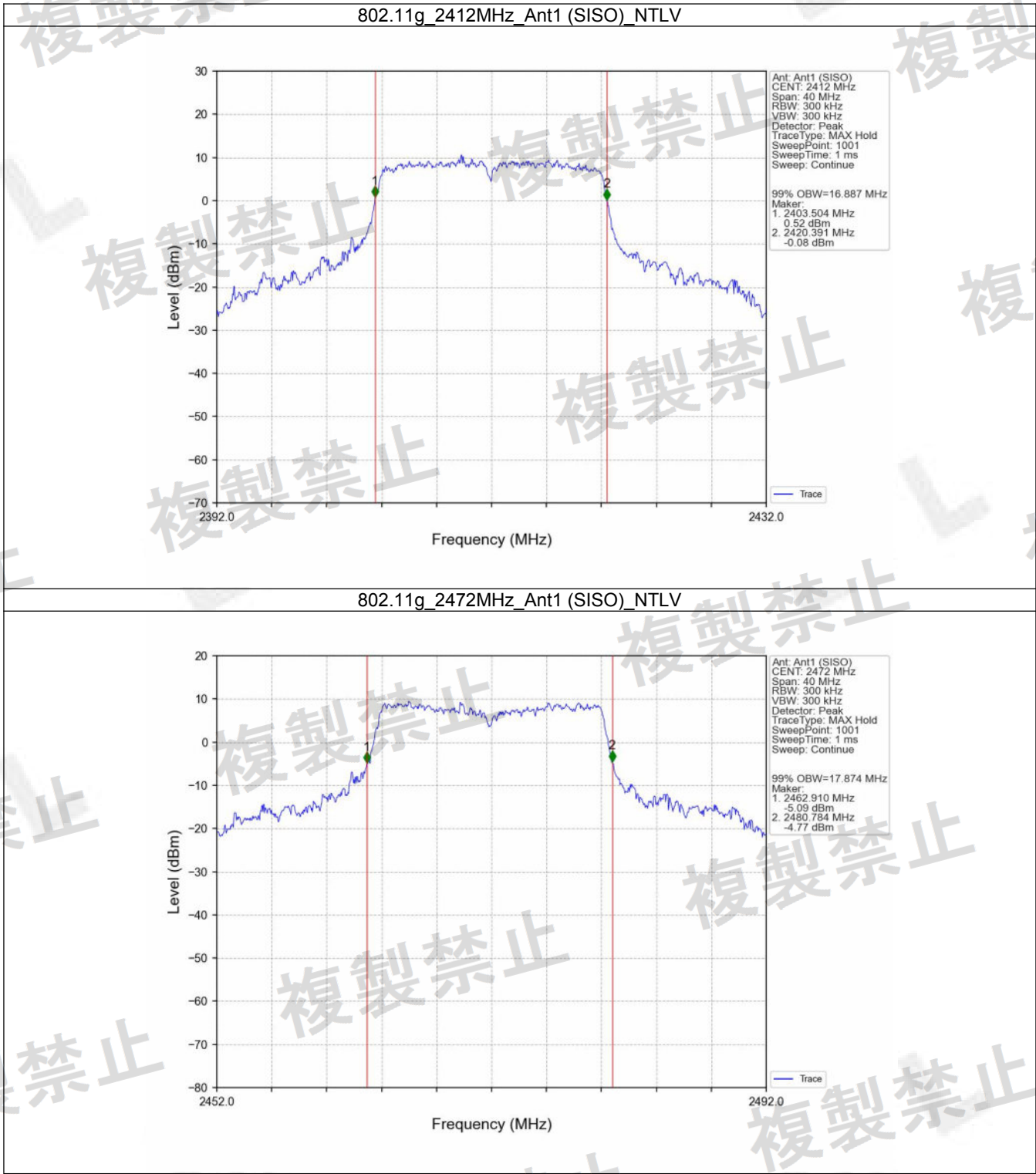
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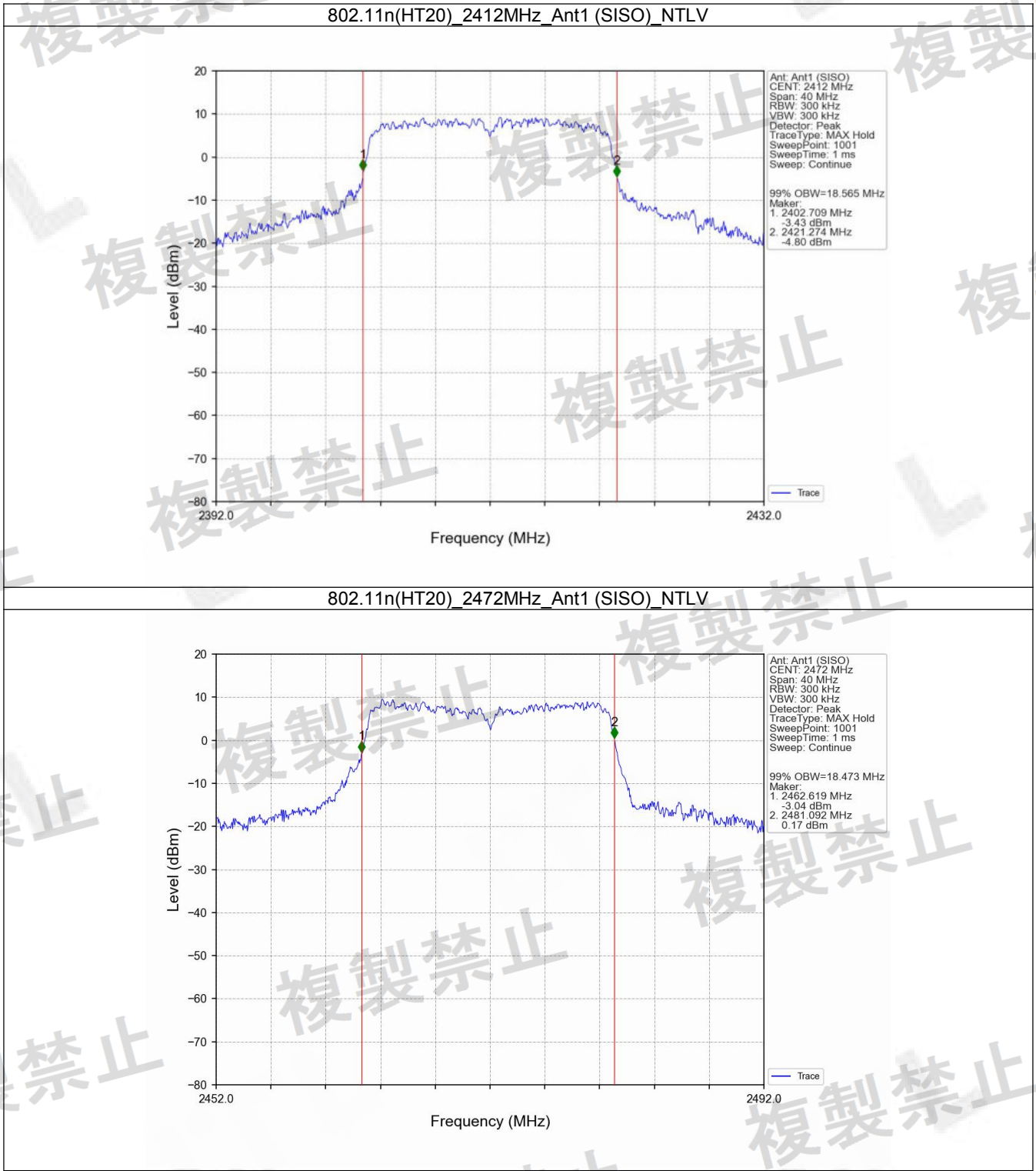
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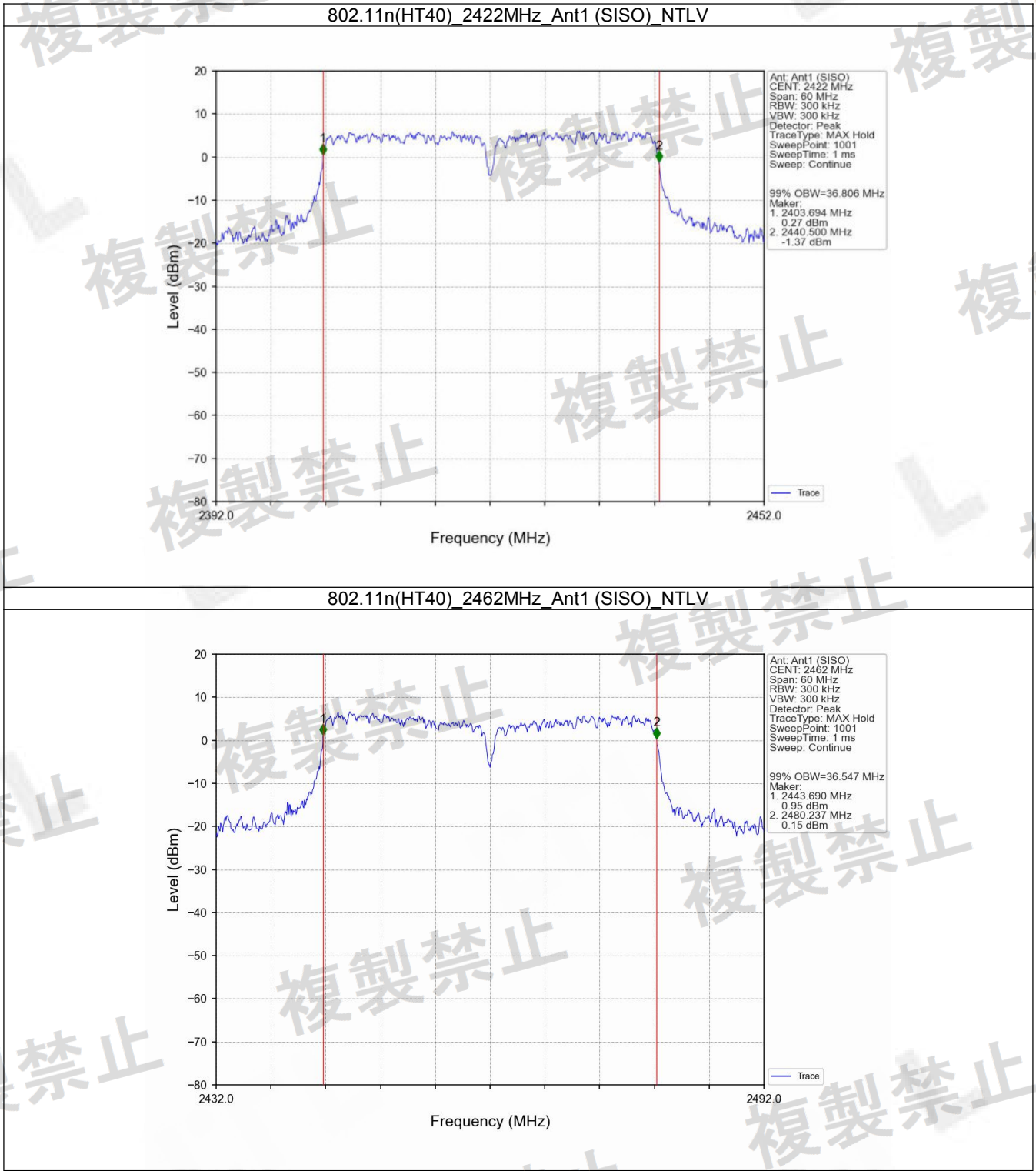
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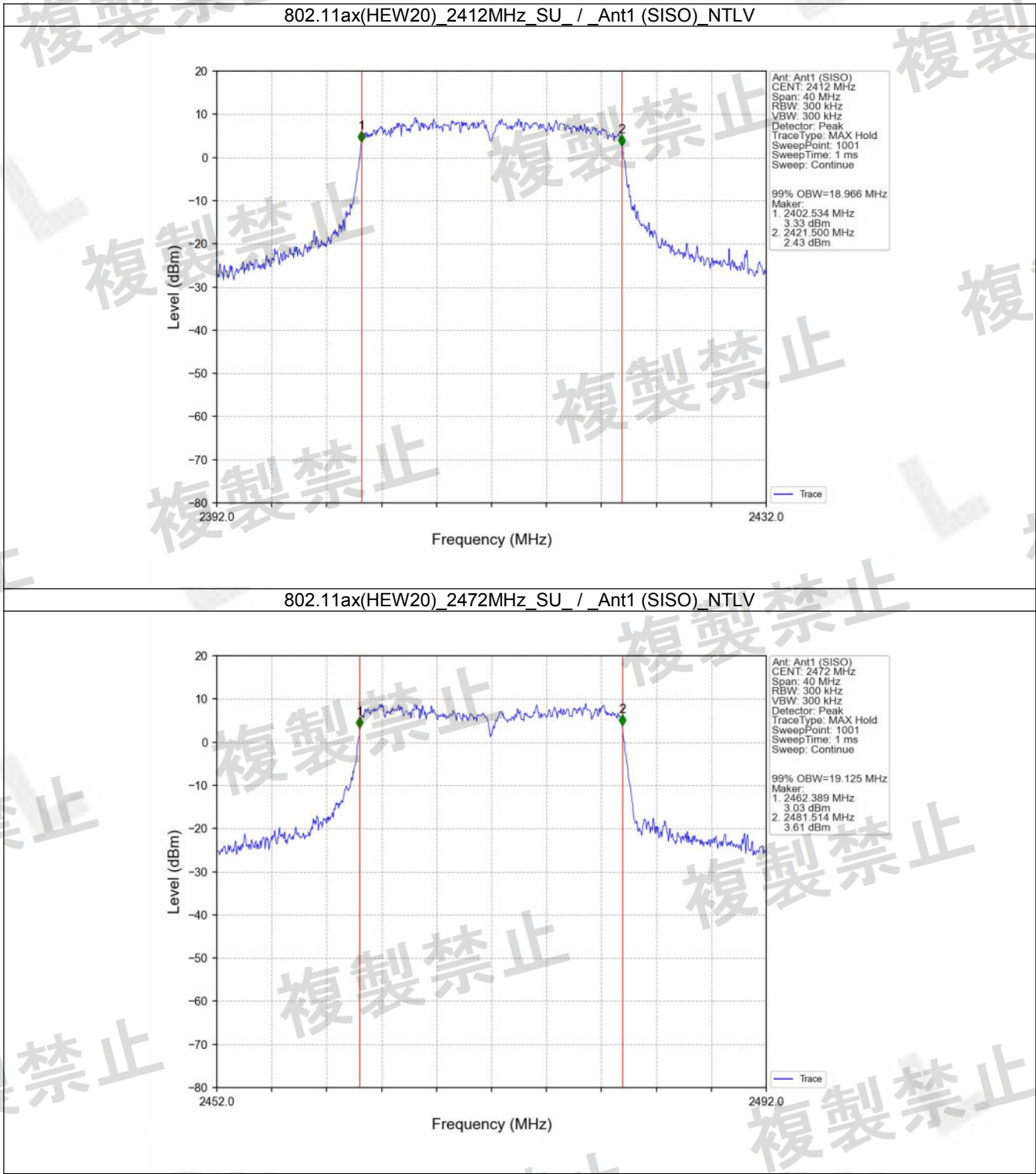
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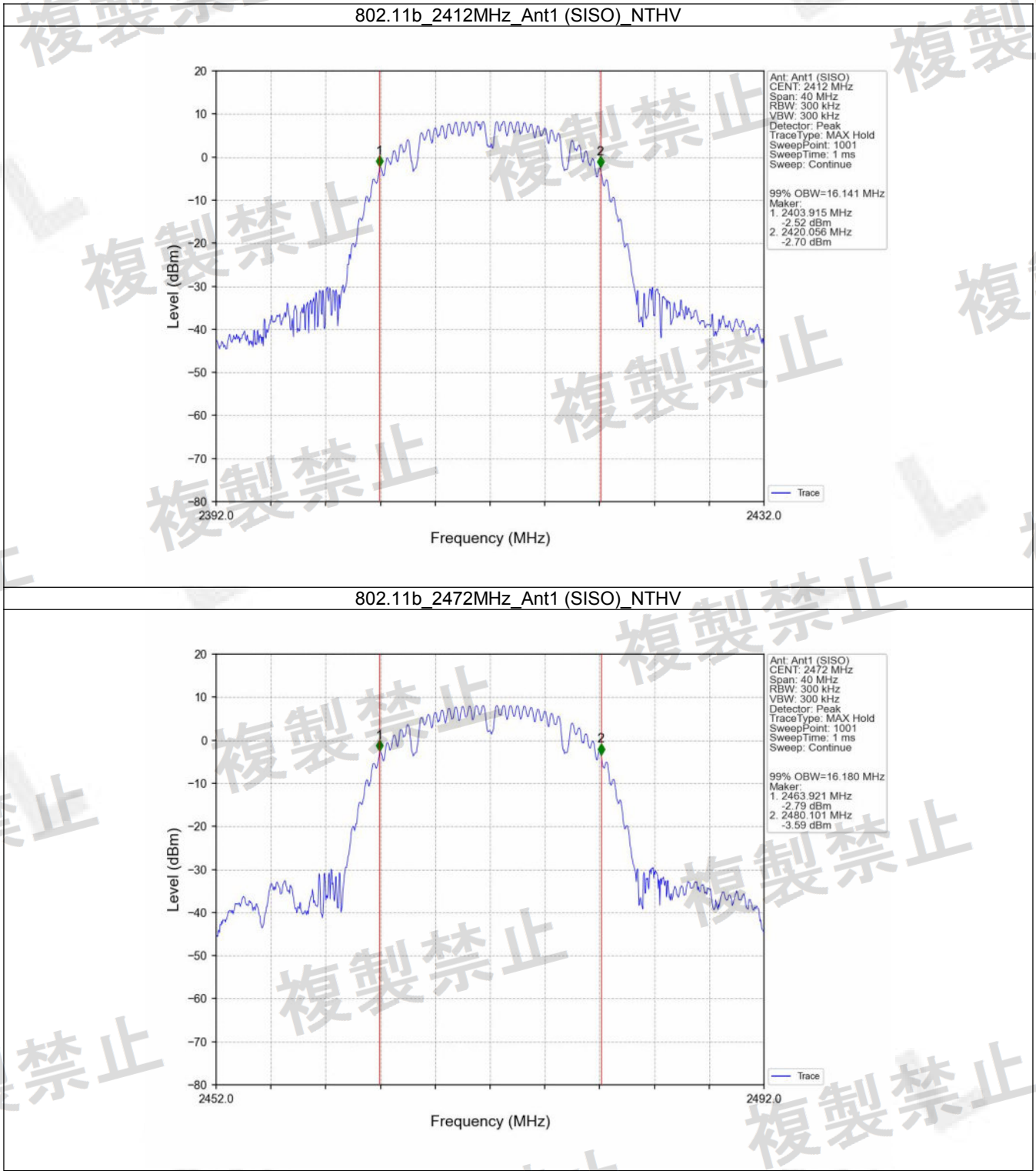
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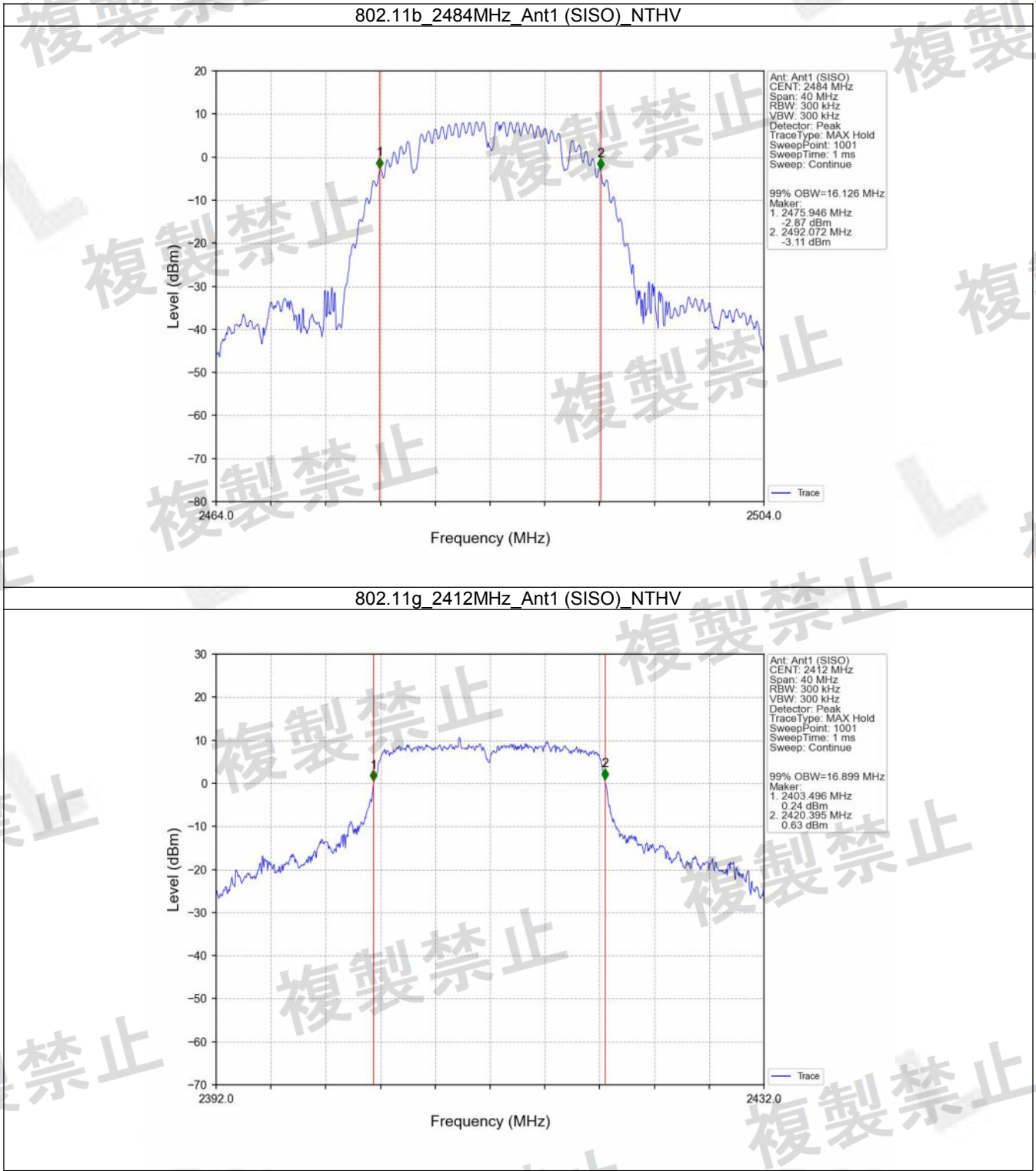
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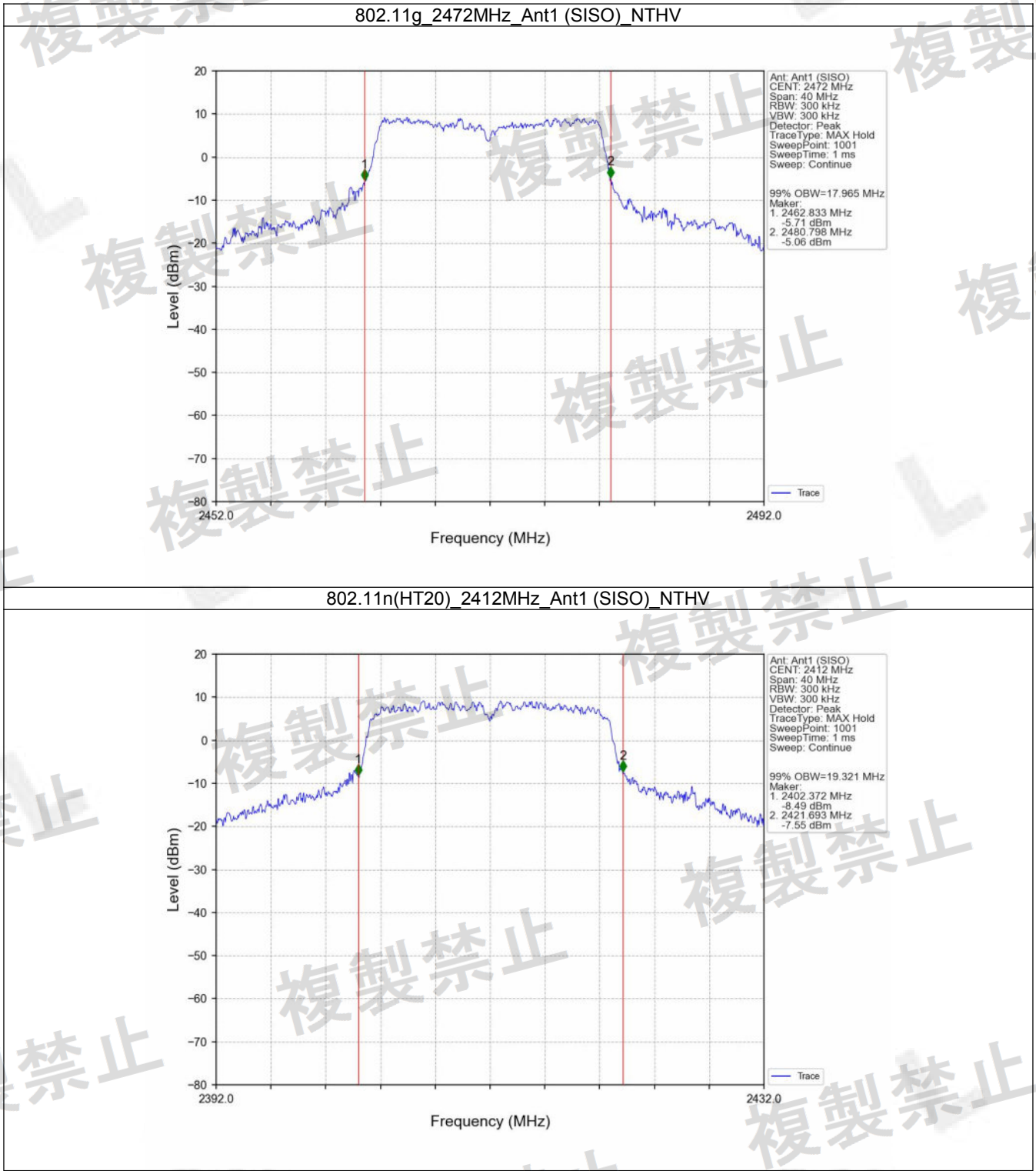
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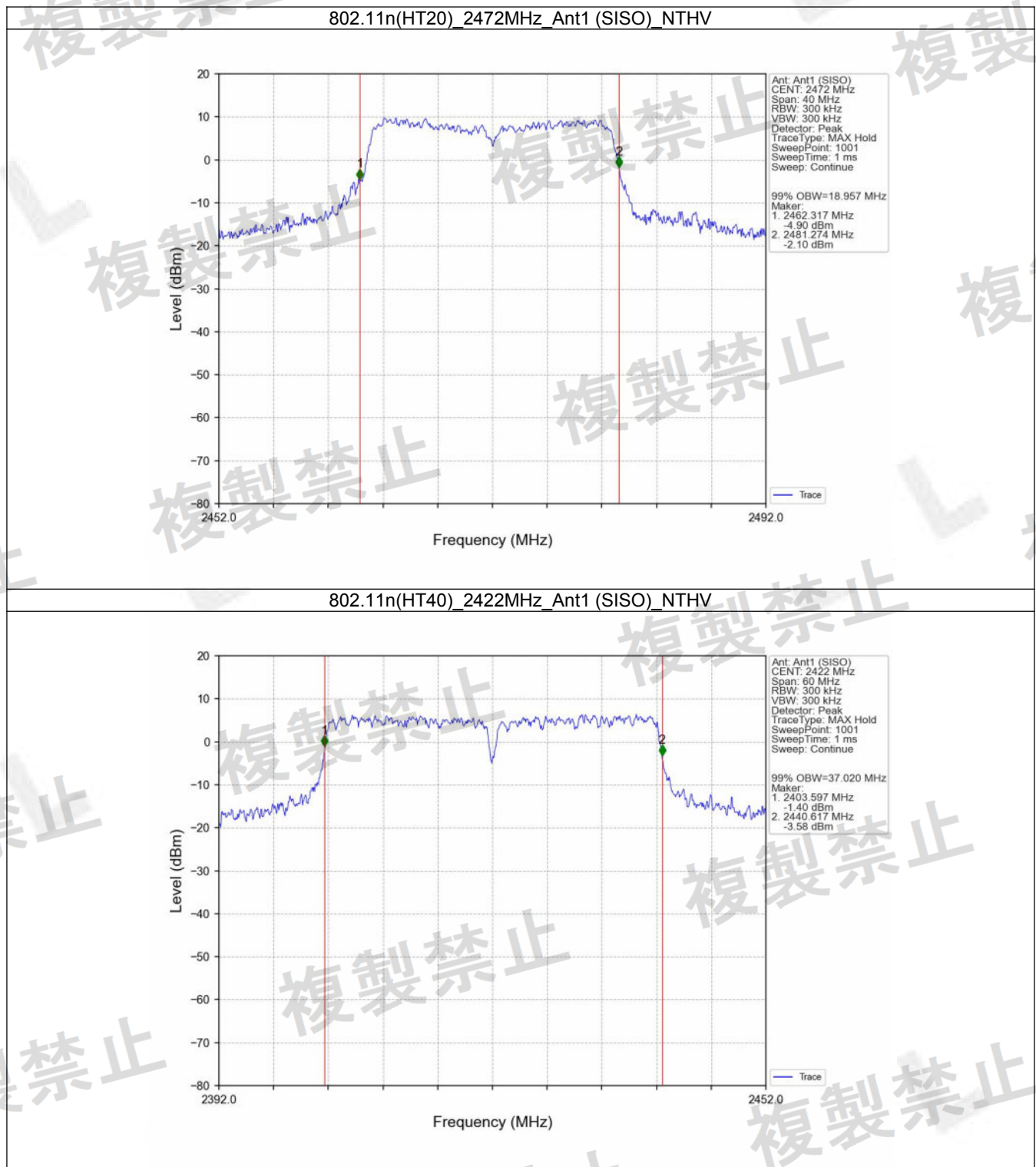
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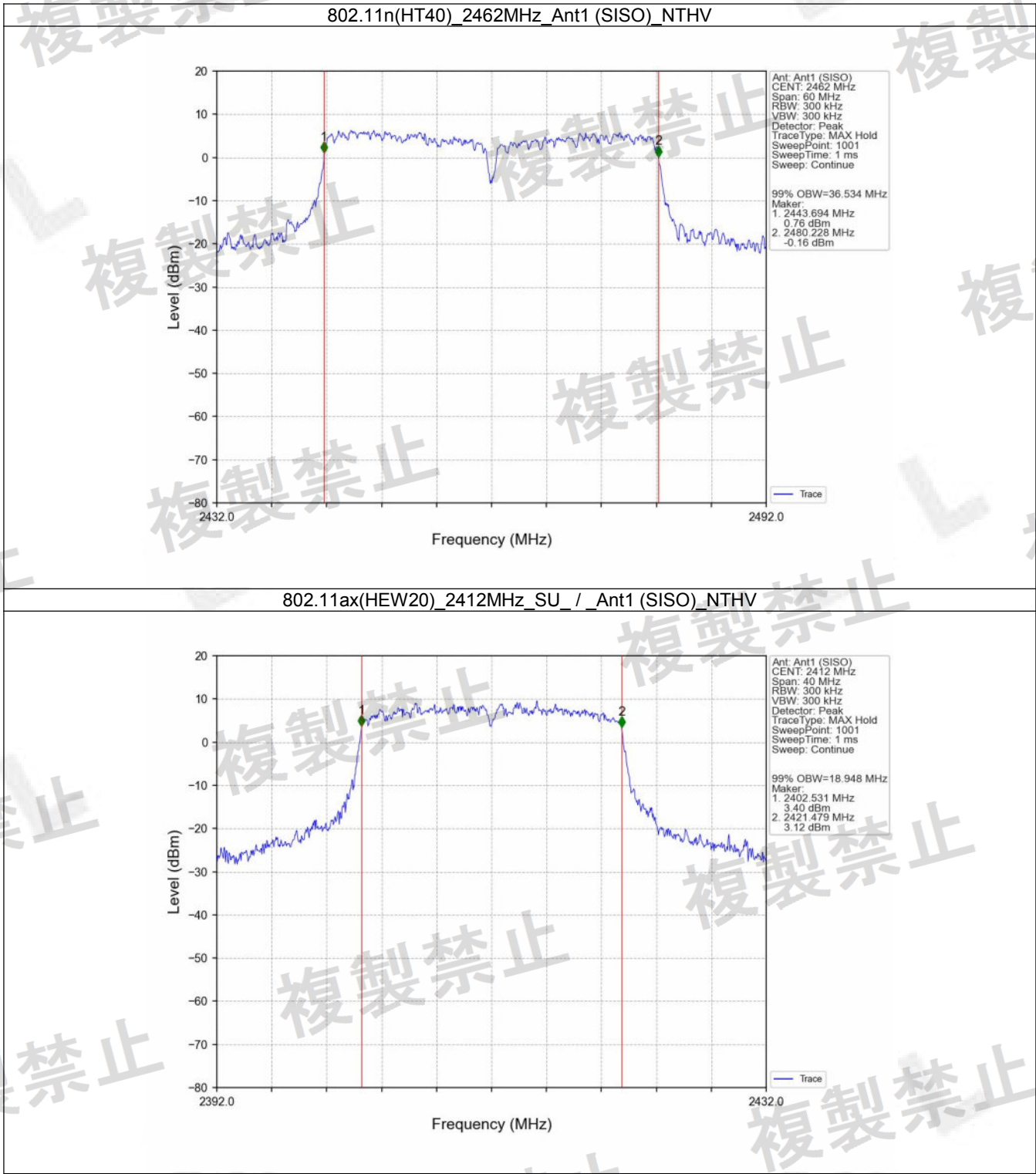
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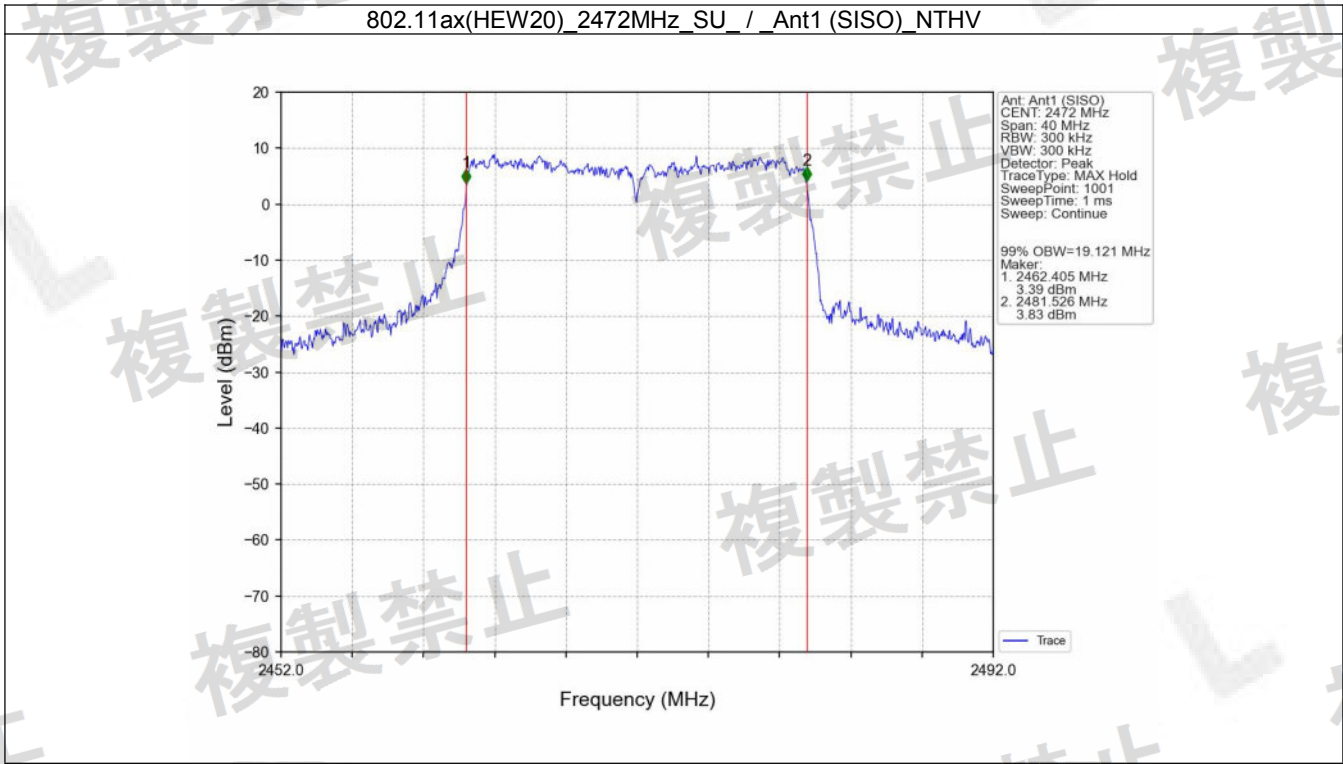
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MIC: 219-259586

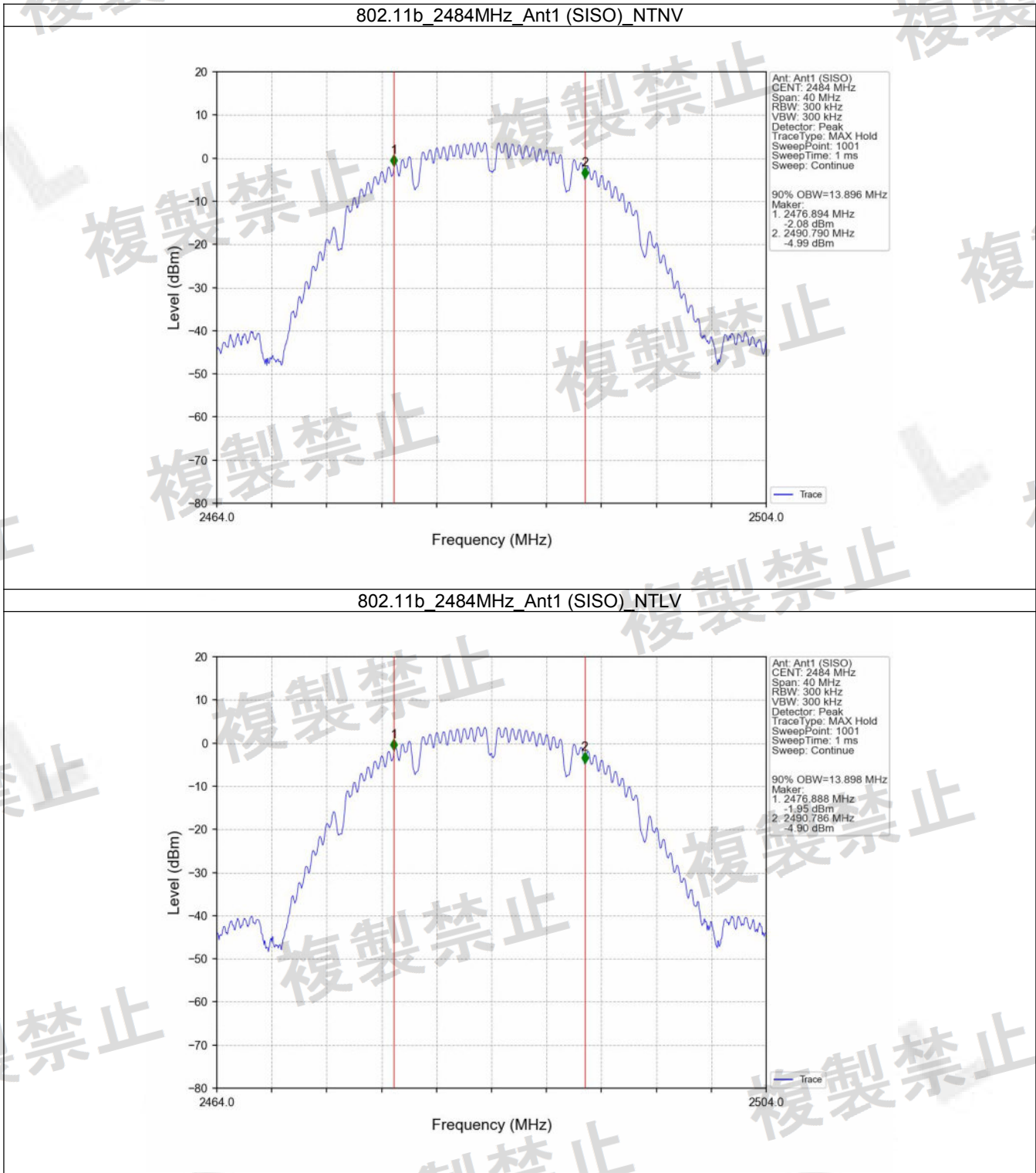


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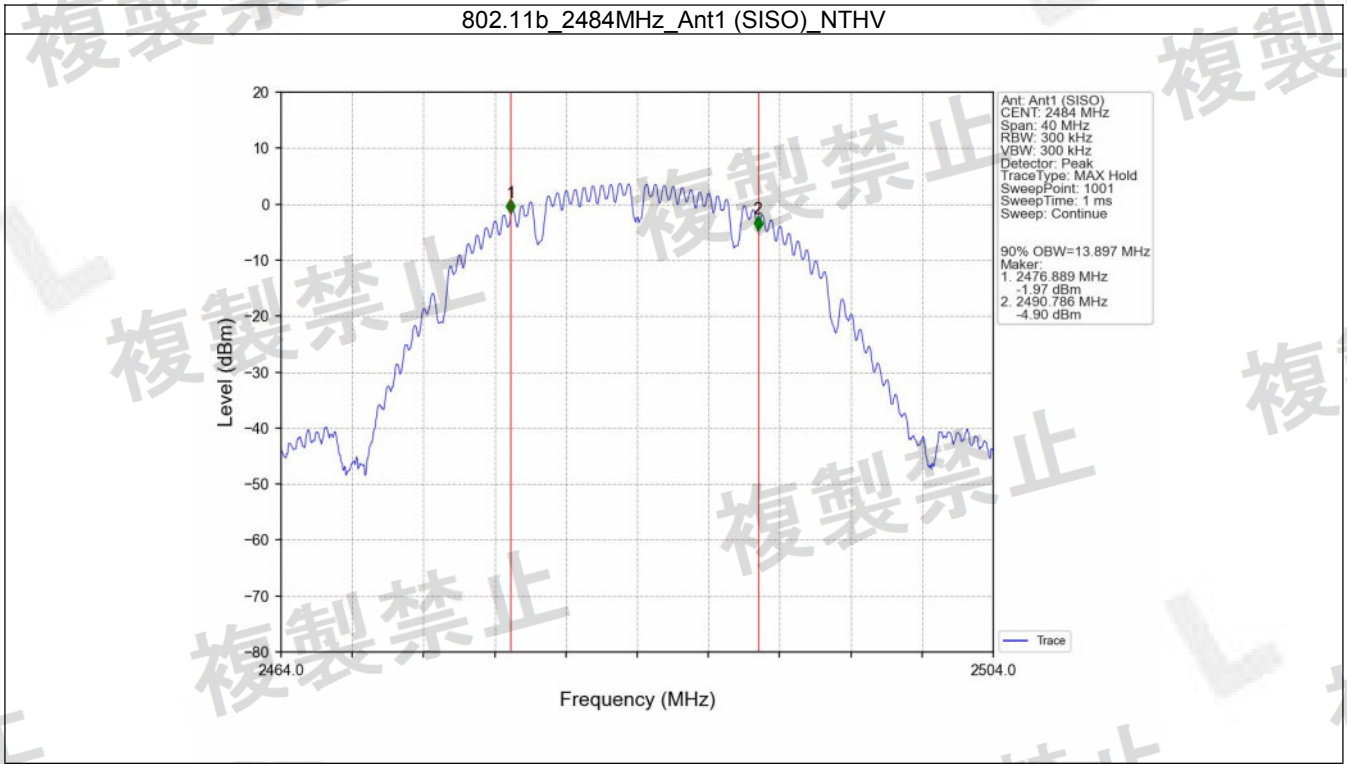


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2.2.2 SPBW



MIC: 219-259586



MIC: 219-259586

3. Antenna Power

3.1 Test Result

3.1.1 Power

ENV	Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	Antenna Power (mW/MHz)		Nominal Power (mW/MHz)	Tolerance (%)		Verdict
							Measured	Limit		Measured	Limit	
NTNV	802.11b	SISO	2412	/	/	1	4.165	<=10.00	6.100	-31.72	<=20	Pass
			2472	/	/	1	4.458	<=10.00	6.100	-26.92	<=20	Pass
			2484	/	/	1	4.052	<=10.00	6.100	-33.57	+20,-80	Pass
	802.11g	SISO	2412	/	/	1	5.282	<=10.00	5.800	-8.93	<=20	Pass
			2472	/	/	1	5.165	<=10.00	5.800	-10.95	<=20	Pass
	802.11n (HT20)	SISO	2412	/	/	1	3.397	<=10.00	5.600	-39.34	<=20	Pass
			2472	/	/	1	5.580	<=10.00	5.600	-0.36	<=20	Pass
	802.11n (HT40)	SISO	2422	/	/	1	1.504	<=5.00	3.000	-49.87	<=20	Pass
			2462	/	/	1	2.553	<=5.00	3.000	-14.90	<=20	Pass
	802.11ax (HEW20)	SISO	2412	SU	/	1	3.189	<=10.00	3.200	-0.34	<=20	Pass
			2472	SU	/	1	2.868	<=10.00	3.200	-10.38	<=20	Pass
NTLV	802.11b	SISO	2412	/	/	1	5.049	<=10.00	6.100	-17.23	<=20	Pass
			2472	/	/	1	4.195	<=10.00	6.100	-31.23	<=20	Pass
			2484	/	/	1	4.497	<=10.00	6.100	-26.28	+20,-80	Pass
	802.11g	SISO	2412	/	/	1	5.833	<=10.00	5.800	0.57	<=20	Pass
			2472	/	/	1	5.217	<=10.00	5.800	-10.05	<=20	Pass
	802.11n (HT20)	SISO	2412	/	/	1	3.352	<=10.00	5.600	-40.14	<=20	Pass
			2472	/	/	1	5.410	<=10.00	5.600	-3.39	<=20	Pass
	802.11n (HT40)	SISO	2422	/	/	1	1.327	<=5.00	3.000	-55.77	<=20	Pass
			2462	/	/	1	2.588	<=5.00	3.000	-13.73	<=20	Pass
	802.11ax (HEW20)	SISO	2412	SU	/	1	3.191	<=10.00	3.200	-0.28	<=20	Pass
			2472	SU	/	1	2.780	<=10.00	3.200	-13.13	<=20	Pass
NTHV	802.11b	SISO	2412	/	/	1	4.754	<=10.00	6.100	-22.07	<=20	Pass
			2472	/	/	1	4.397	<=10.00	6.100	-27.92	<=20	Pass
			2484	/	/	1	6.141	<=10.00	6.100	0.67	+20,-80	Pass
	802.11g	SISO	2412	/	/	1	5.658	<=10.00	5.800	-2.45	<=20	Pass
			2472	/	/	1	5.069	<=10.00	5.800	-12.60	<=20	Pass
	802.11n (HT20)	SISO	2412	/	/	1	3.339	<=10.00	5.600	-40.38	<=20	Pass
			2472	/	/	1	5.204	<=10.00	5.600	-7.07	<=20	Pass
	802.11n (HT40)	SISO	2422	/	/	1	1.489	<=5.00	3.000	-50.37	<=20	Pass
			2462	/	/	1	2.579	<=5.00	3.000	-14.03	<=20	Pass
	802.11ax (HEW20)	SISO	2412	SU	/	1	3.106	<=10.00	3.200	-2.94	<=20	Pass
			2472	SU	/	1	3.100	<=10.00	3.200	-3.13	<=20	Pass

3.1.2 EIRP

ENV	Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	Gain (dBi)	EIRP (dBm/MHz)		Verdict
								Result	Limit	
NTNV	802.11b	SISO	2412	/	/	1	1.90	8.10	<=12.14	Pass
			2472	/	/	1	1.90	8.39	<=12.14	Pass
			2484	/	/	1	1.90	7.98	<=12.14	Pass
	802.11g	SISO	2412	/	/	1	1.90	9.13	<=12.14	Pass
			2472	/	/	1	1.90	9.03	<=12.14	Pass
	802.11n (HT20)	SISO	2412	/	/	1	1.90	7.21	<=12.14	Pass
			2472	/	/	1	1.90	9.37	<=12.14	Pass
	802.11n (HT40)	SISO	2422	/	/	1	1.90	3.67	<=9.13	Pass
			2462	/	/	1	1.90	5.97	<=9.13	Pass

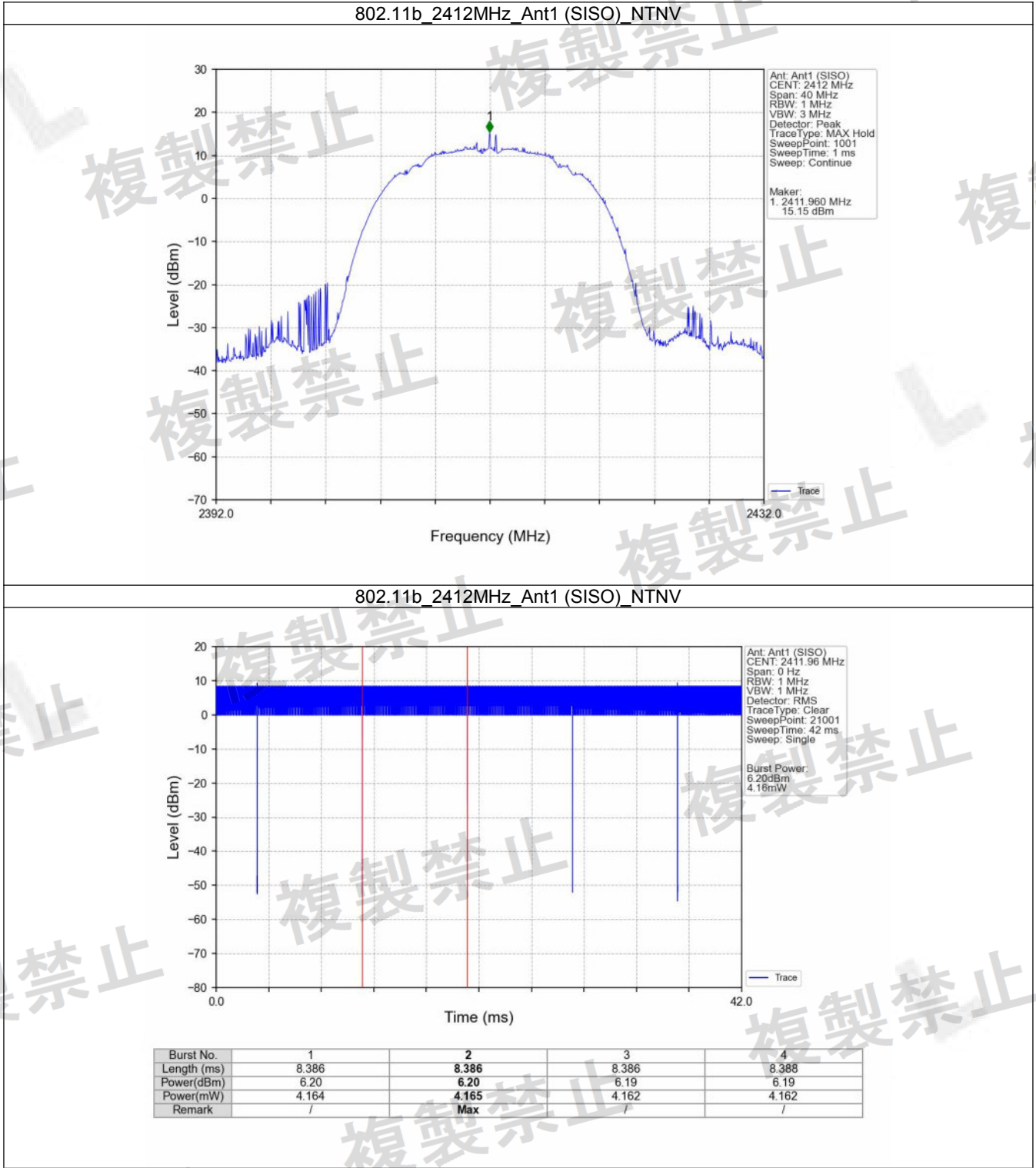
MIC: 219-259586

NTLV	802.11ax (HEW20)	SISO	2412	SU	/	1	1.90	6.94	<=12.14	Pass
			2472	SU	/	1	1.90	6.48	<=12.14	Pass
	802.11b	SISO	2412	/	/	1	1.90	8.93	<=12.14	Pass
			2472	/	/	1	1.90	8.13	<=12.14	Pass
			2484	/	/	1	1.90	8.43	<=12.14	Pass
	802.11g	SISO	2412	/	/	1	1.90	9.56	<=12.14	Pass
			2472	/	/	1	1.90	9.07	<=12.14	Pass
	802.11n (HT20)	SISO	2412	/	/	1	1.90	7.15	<=12.14	Pass
			2472	/	/	1	1.90	9.23	<=12.14	Pass
	802.11n (HT40)	SISO	2422	/	/	1	1.90	3.13	<=9.13	Pass
			2462	/	/	1	1.90	6.03	<=9.13	Pass
	802.11ax (HEW20)	SISO	2412	SU	/	1	1.90	6.94	<=12.14	Pass
			2472	SU	/	1	1.90	6.34	<=12.14	Pass
NTHV	802.11b	SISO	2412	/	/	1	1.90	8.67	<=12.14	Pass
			2472	/	/	1	1.90	8.33	<=12.14	Pass
			2484	/	/	1	1.90	9.78	<=12.14	Pass
	802.11g	SISO	2412	/	/	1	1.90	9.43	<=12.14	Pass
			2472	/	/	1	1.90	8.95	<=12.14	Pass
	802.11n (HT20)	SISO	2412	/	/	1	1.90	7.14	<=12.14	Pass
			2472	/	/	1	1.90	9.06	<=12.14	Pass
	802.11n (HT40)	SISO	2422	/	/	1	1.90	3.63	<=9.13	Pass
			2462	/	/	1	1.90	6.01	<=9.13	Pass
	802.11ax (HEW20)	SISO	2412	SU	/	1	1.90	6.82	<=12.14	Pass
			2472	SU	/	1	1.90	6.81	<=12.14	Pass

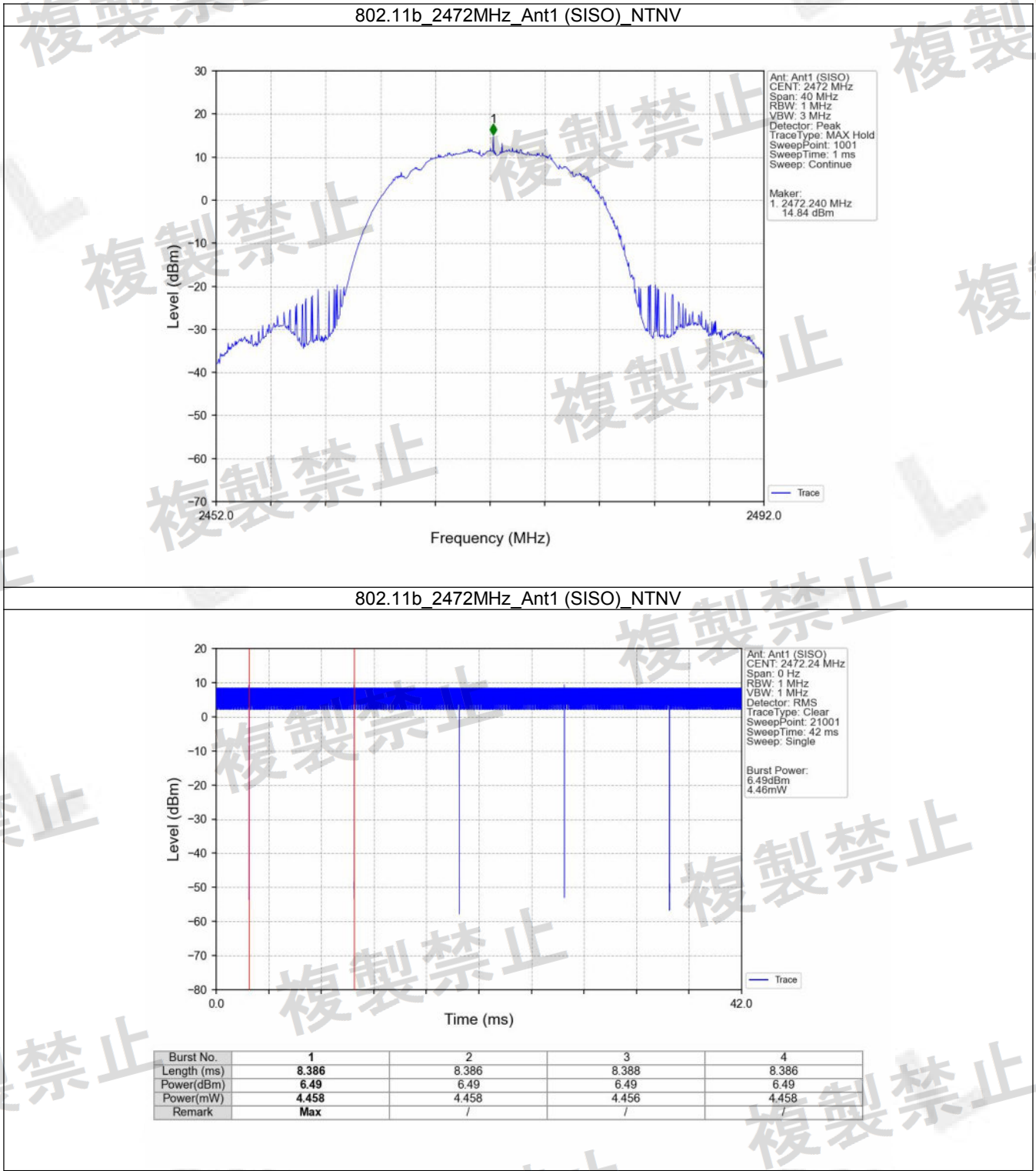
MIC: 219-259586

3.2 Test Graph

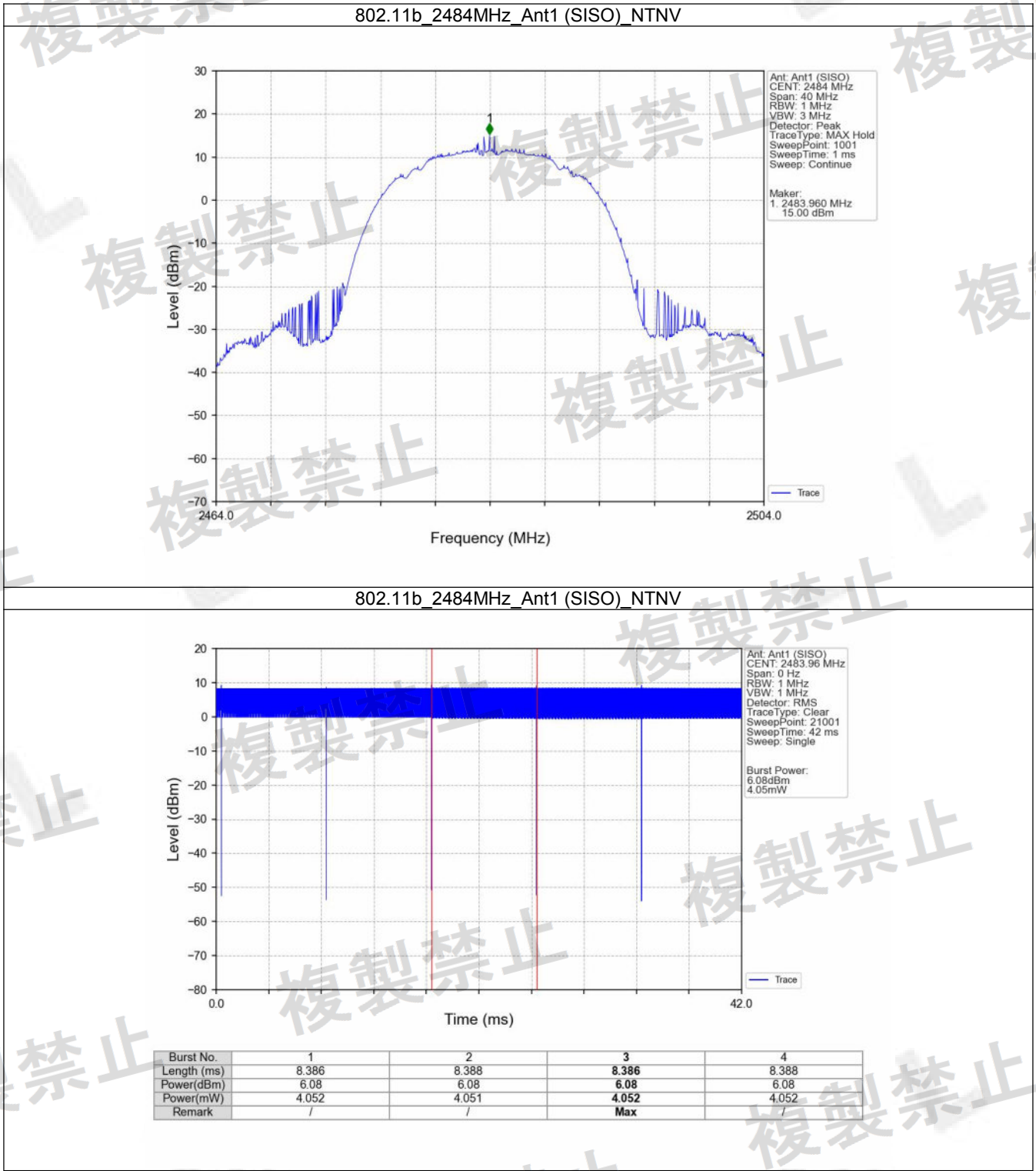
3.2.1 Power



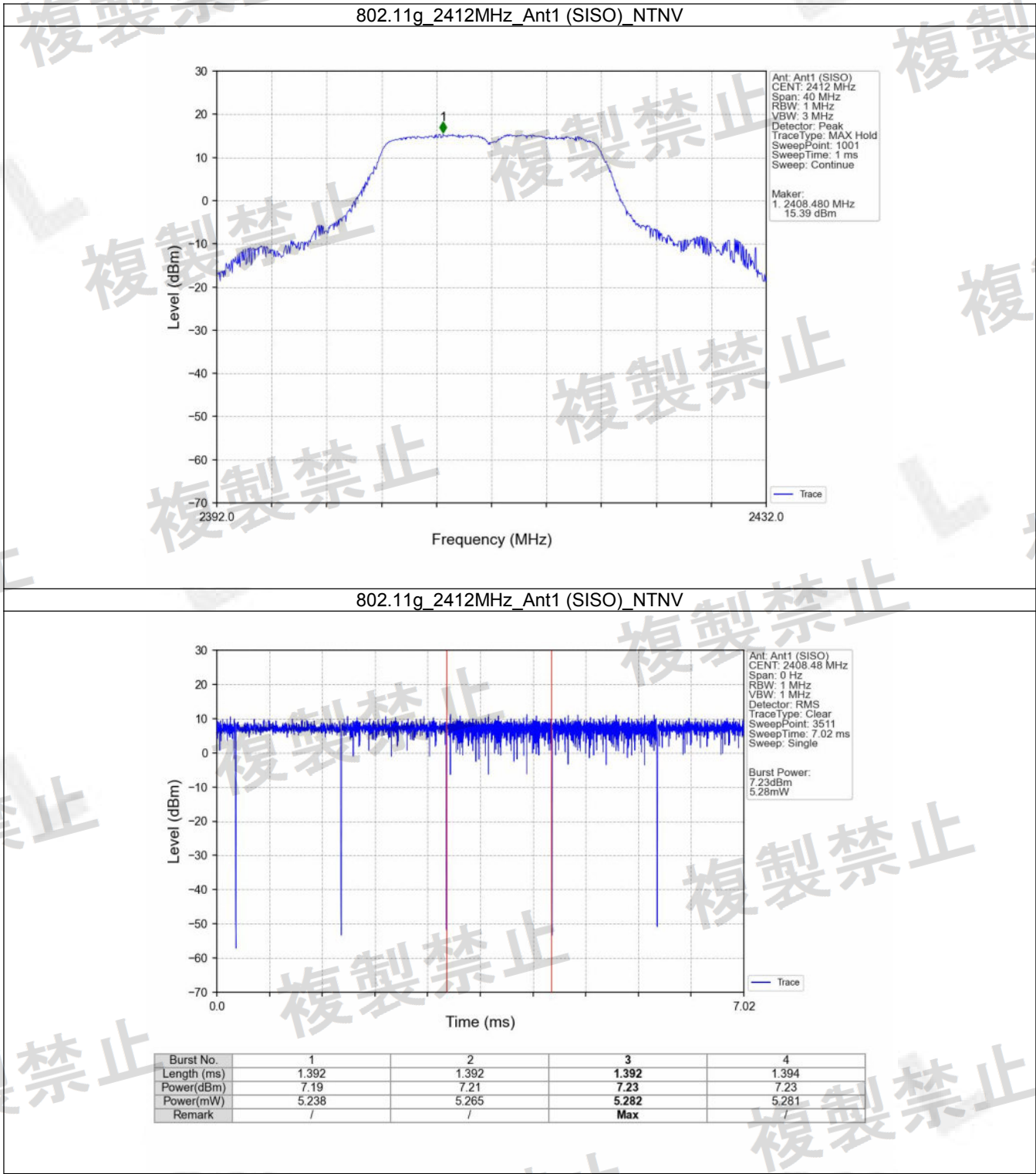
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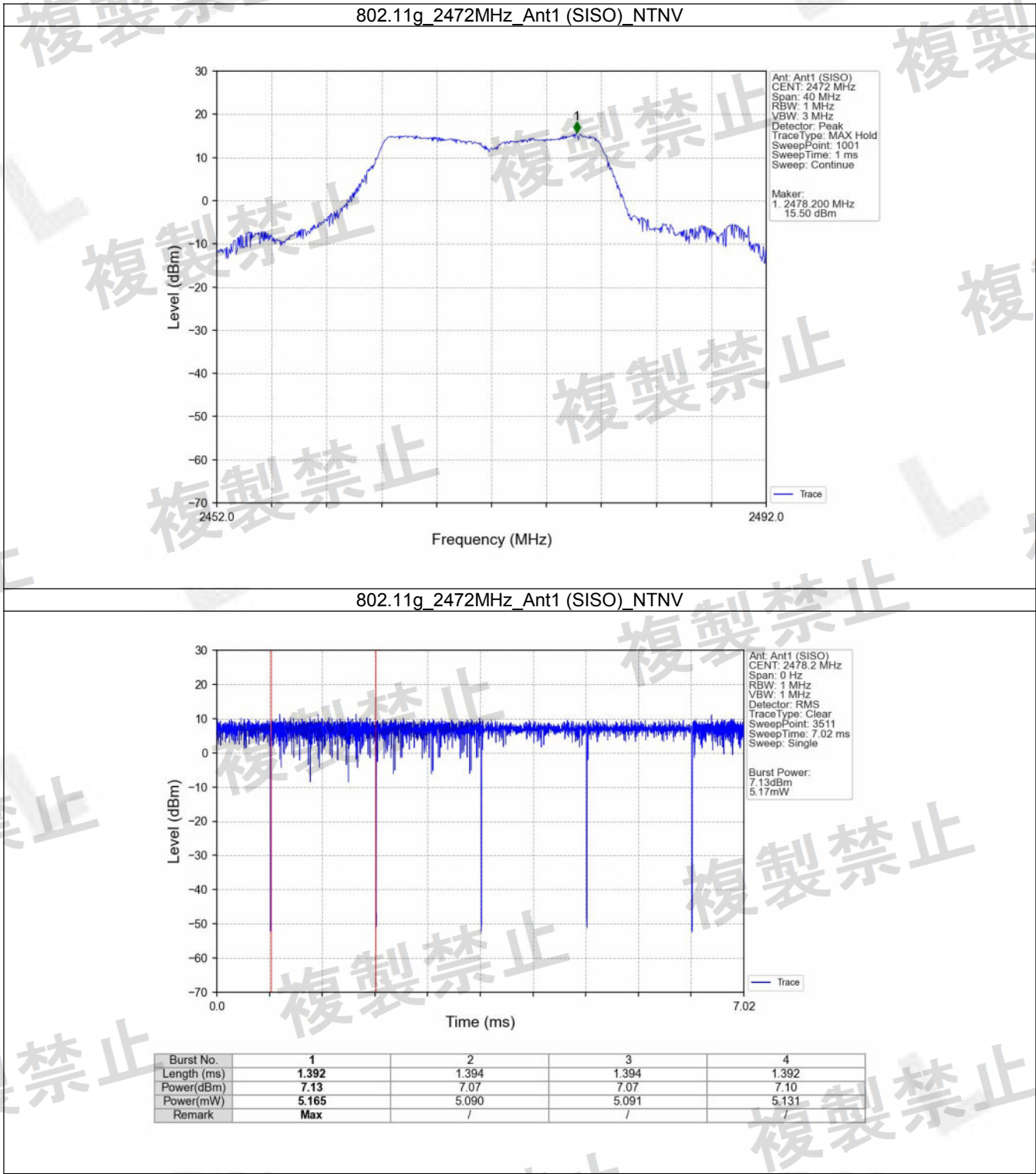
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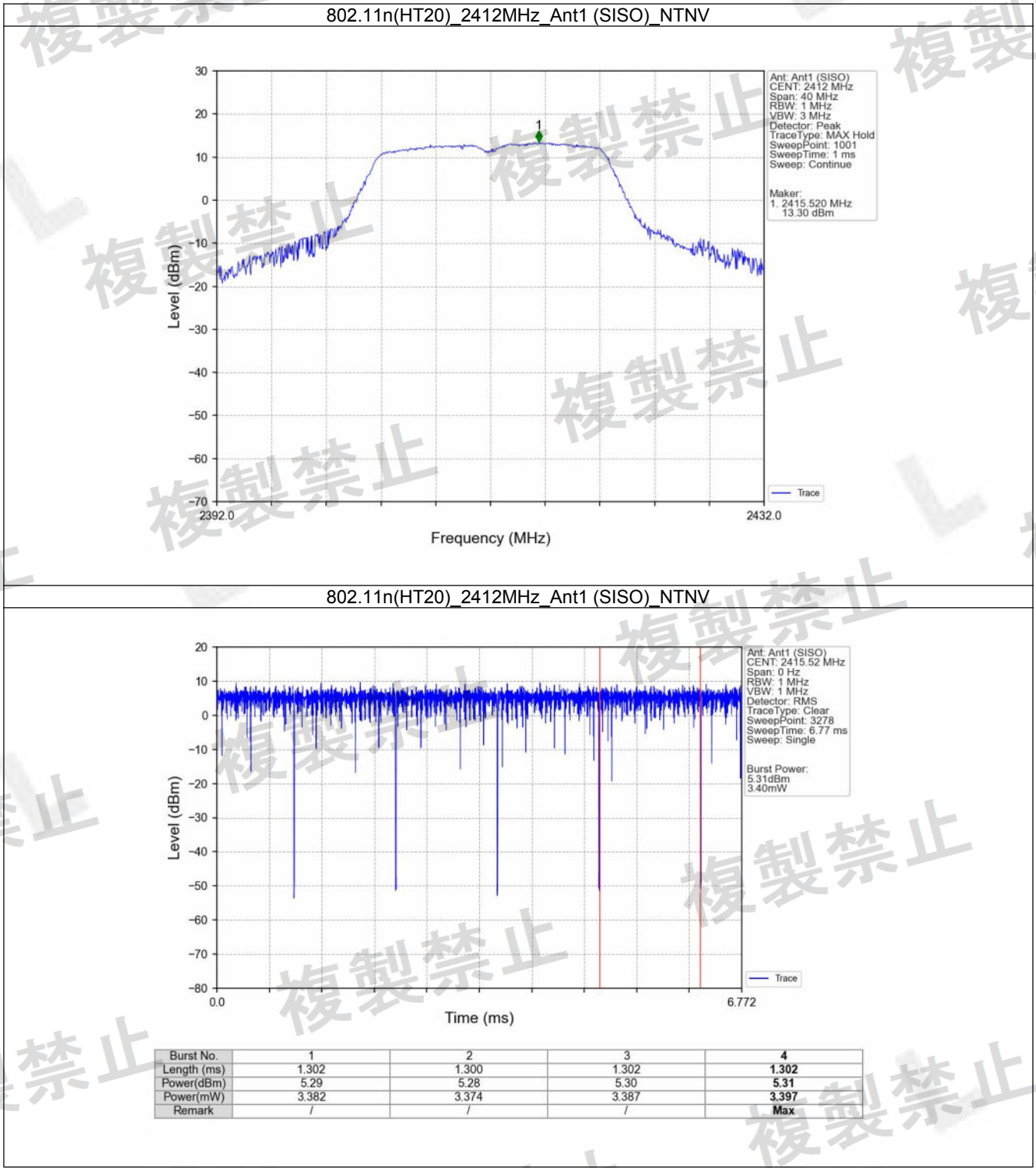
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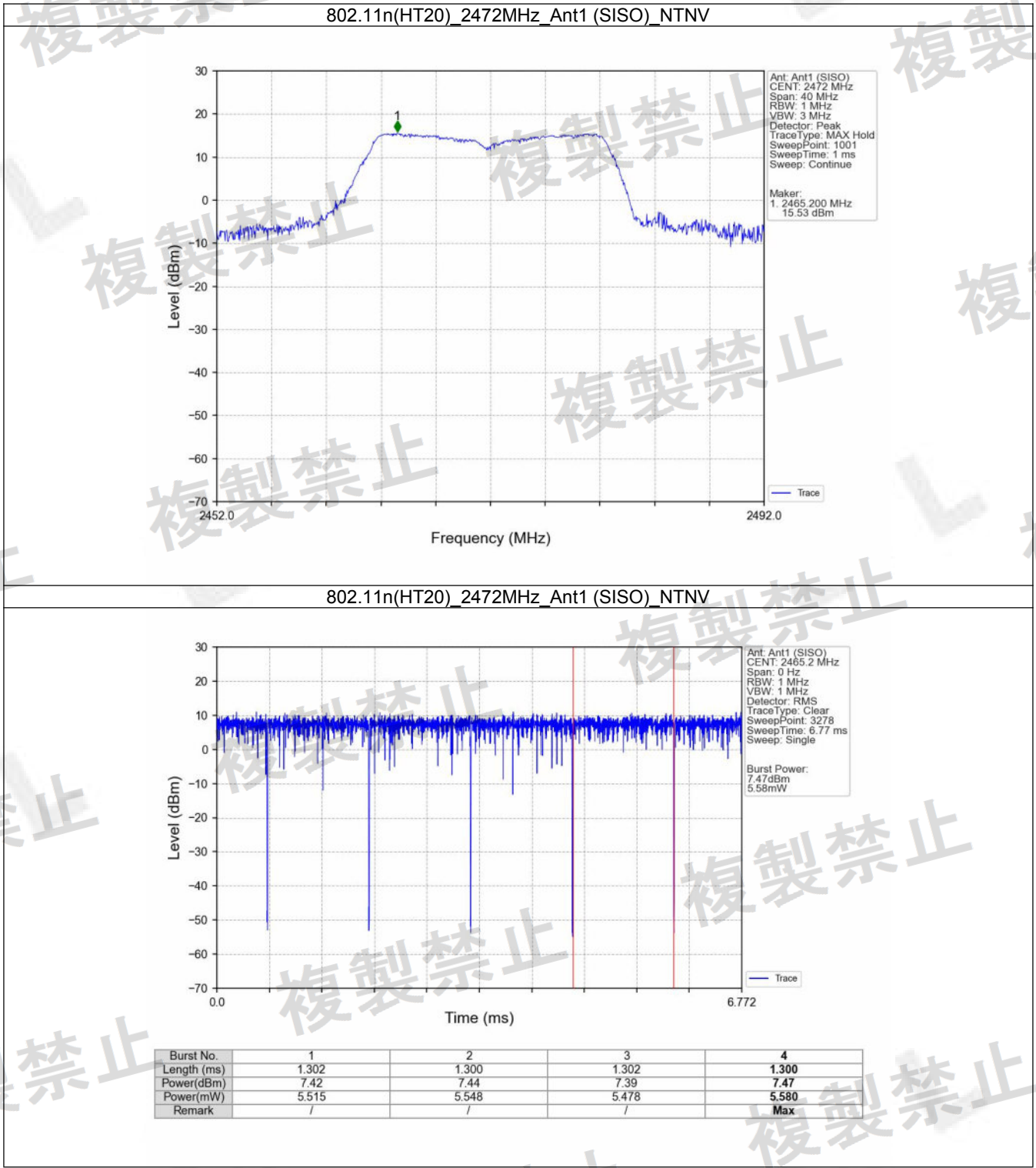
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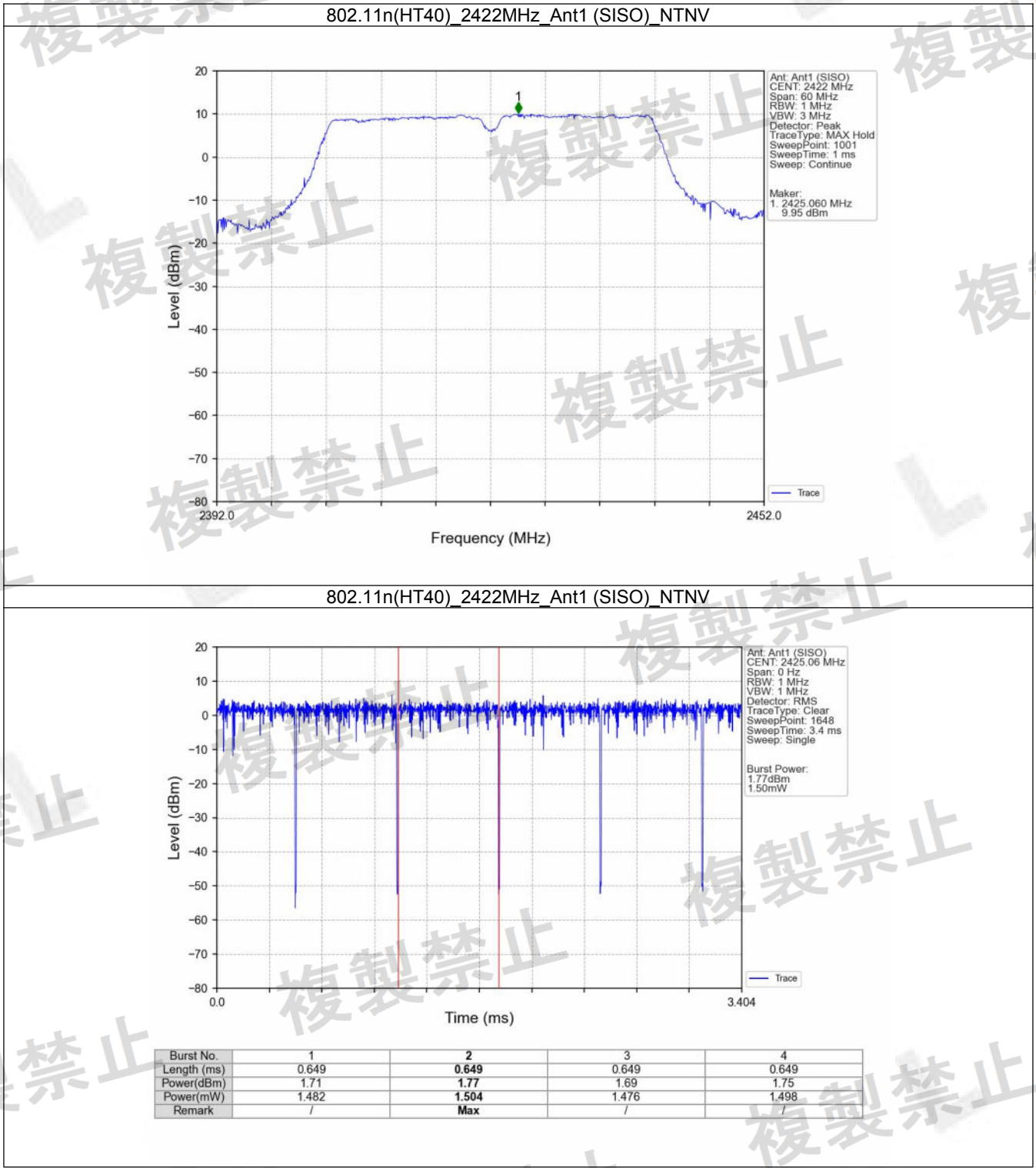
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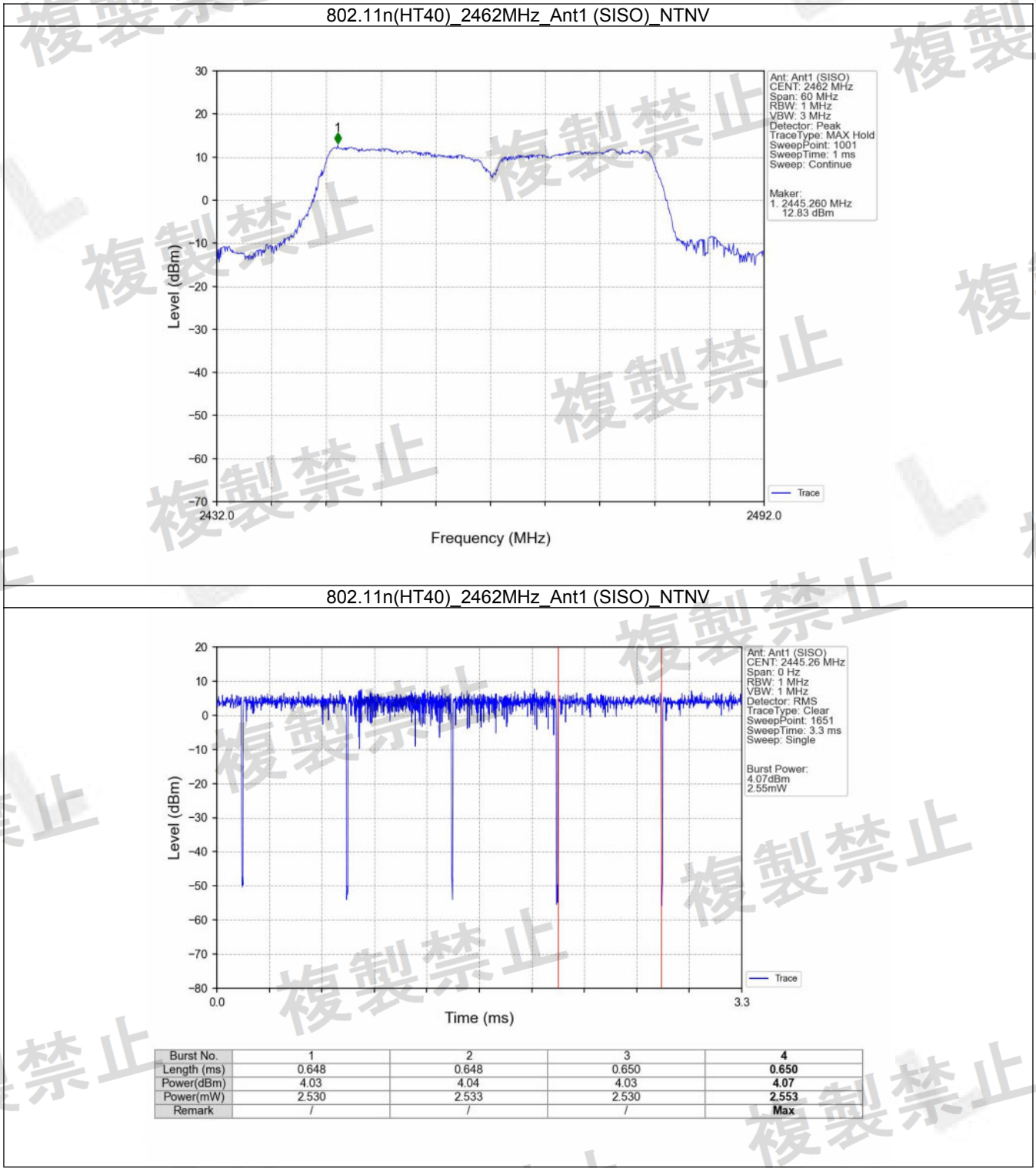
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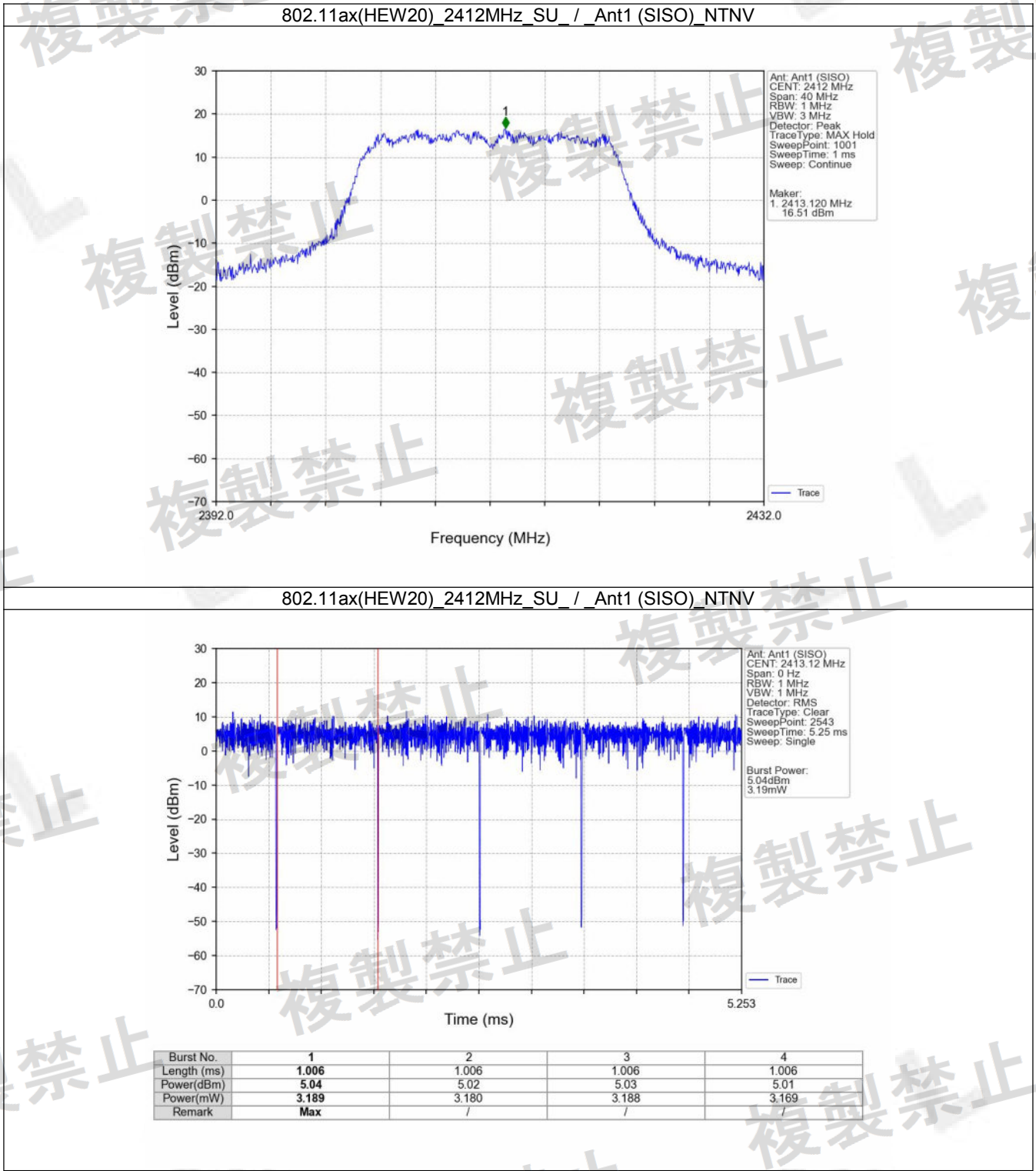
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MIC: 219-259586

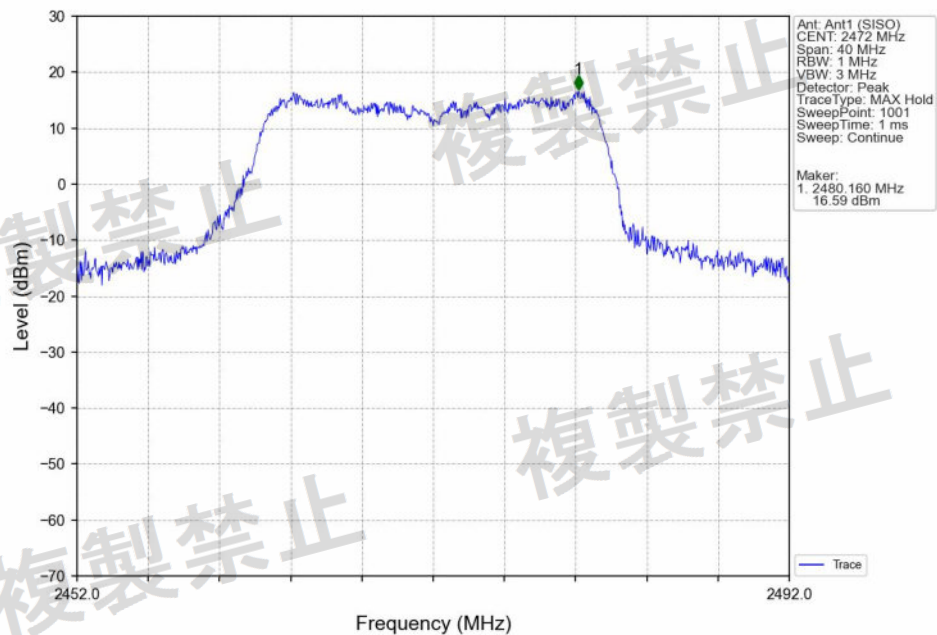


MIC: 219-259586

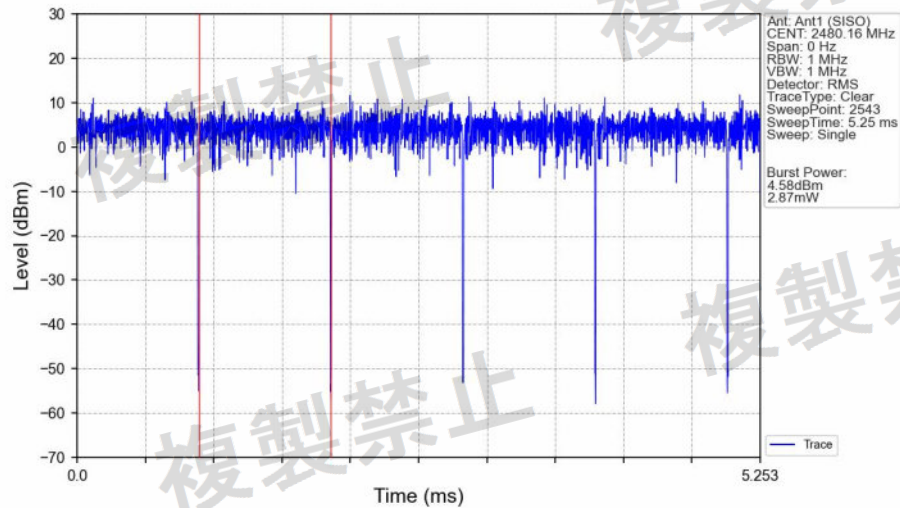


MIC: 219-259586

802.11ax(HEW20)_2472MHz_SU_/_Ant1 (SISO)_NTNV

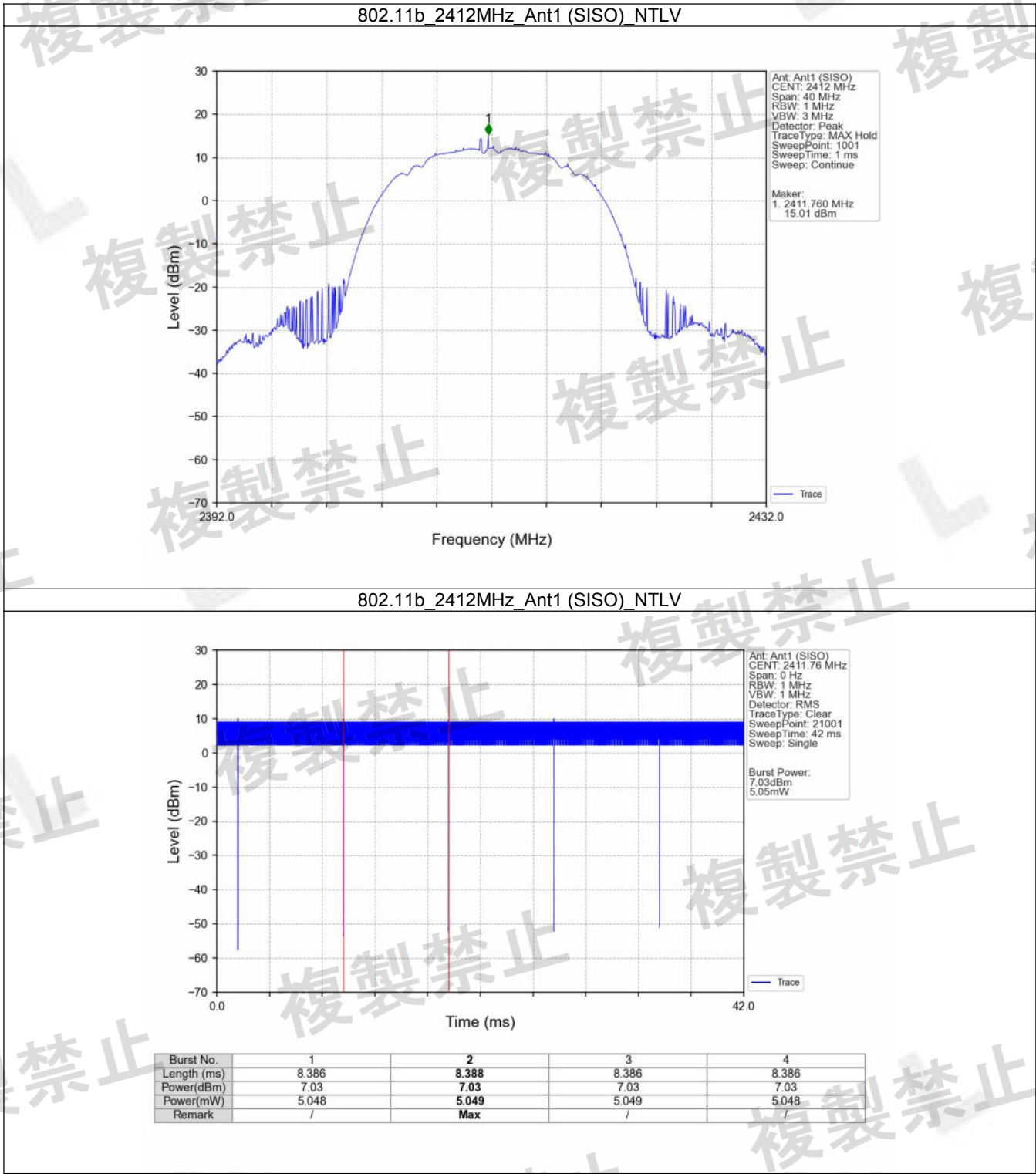


802.11ax(HEW20)_2472MHz_SU_/_Ant1 (SISO)_NTNV



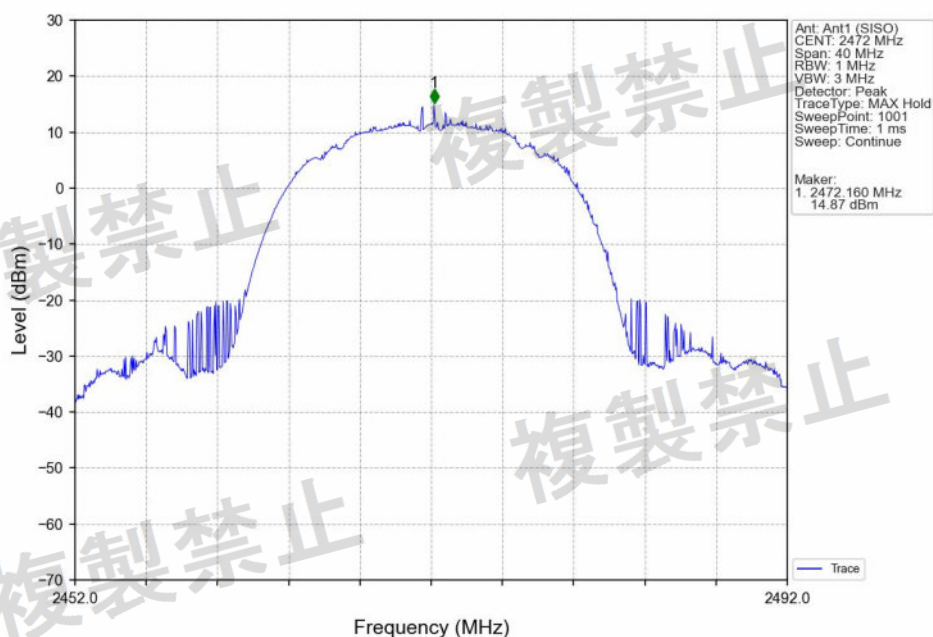
Burst No.	1	2	3	4
Length (ms)	1.006	1.006	1.006	1.006
Power(dBm)	4.58	4.57	4.55	4.57
Power(mW)	2.868	2.864	2.851	2.866
Remark	Max	/	/	/

MIC: 219-259586

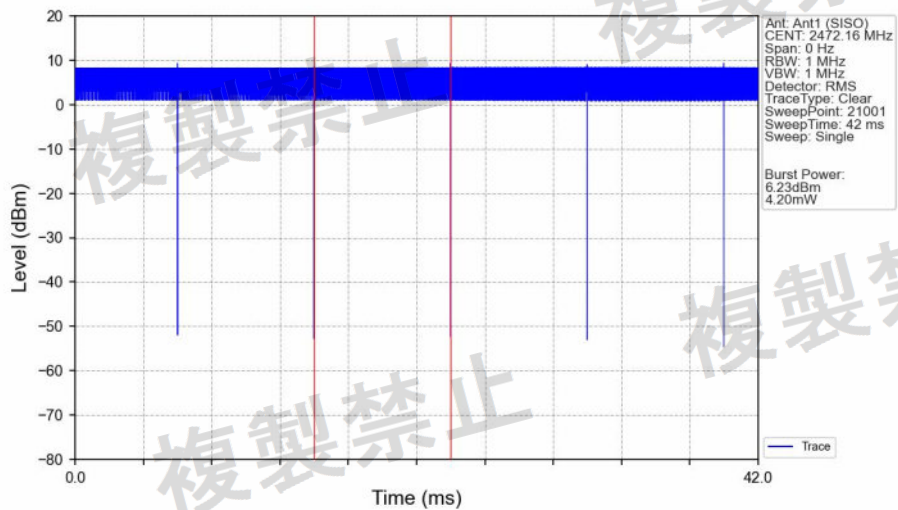


MIC: 219-259586

802.11b_2472MHz_Ant1 (SISO)_NTLV

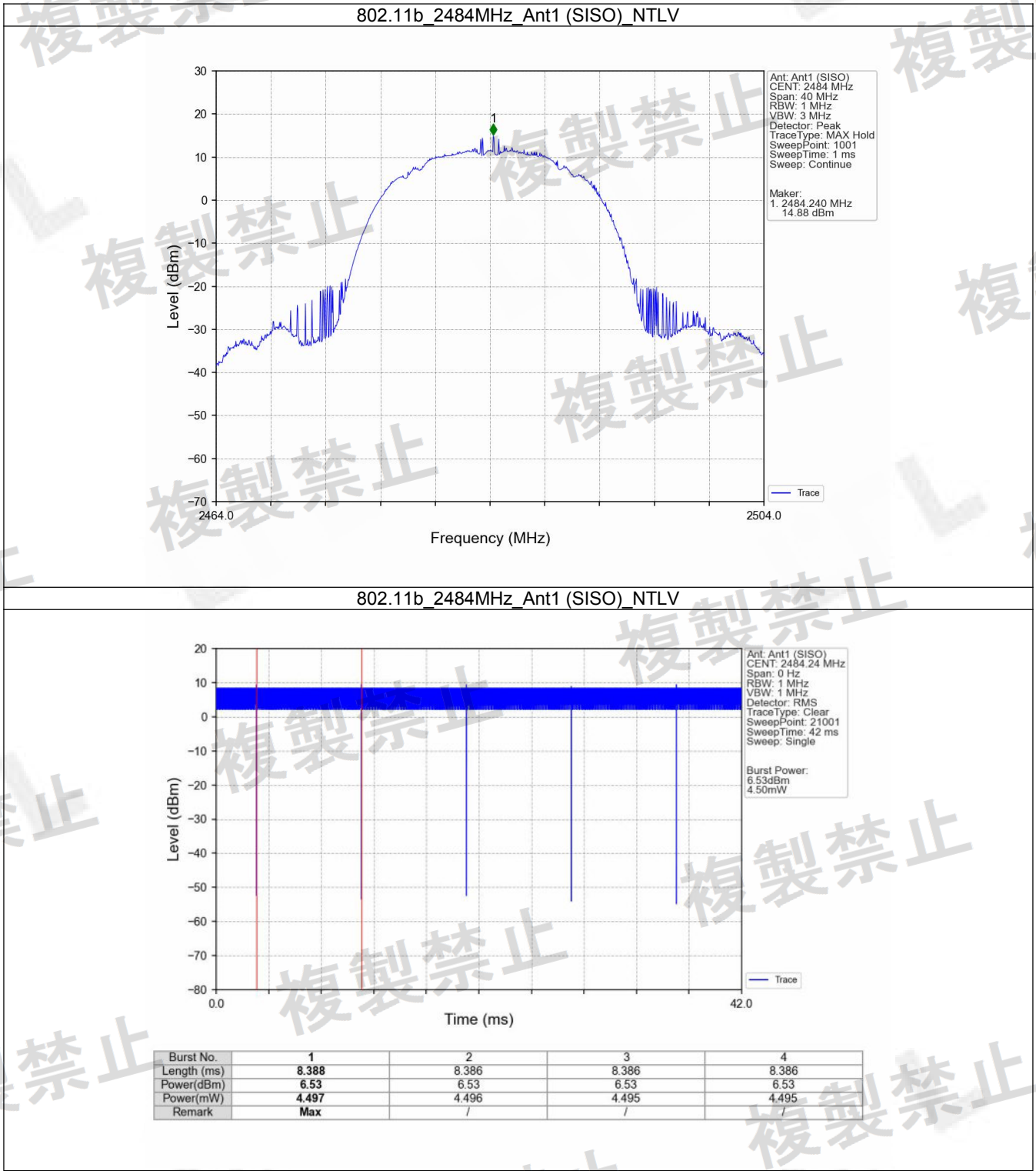


802.11b_2472MHz_Ant1 (SISO)_NTLV

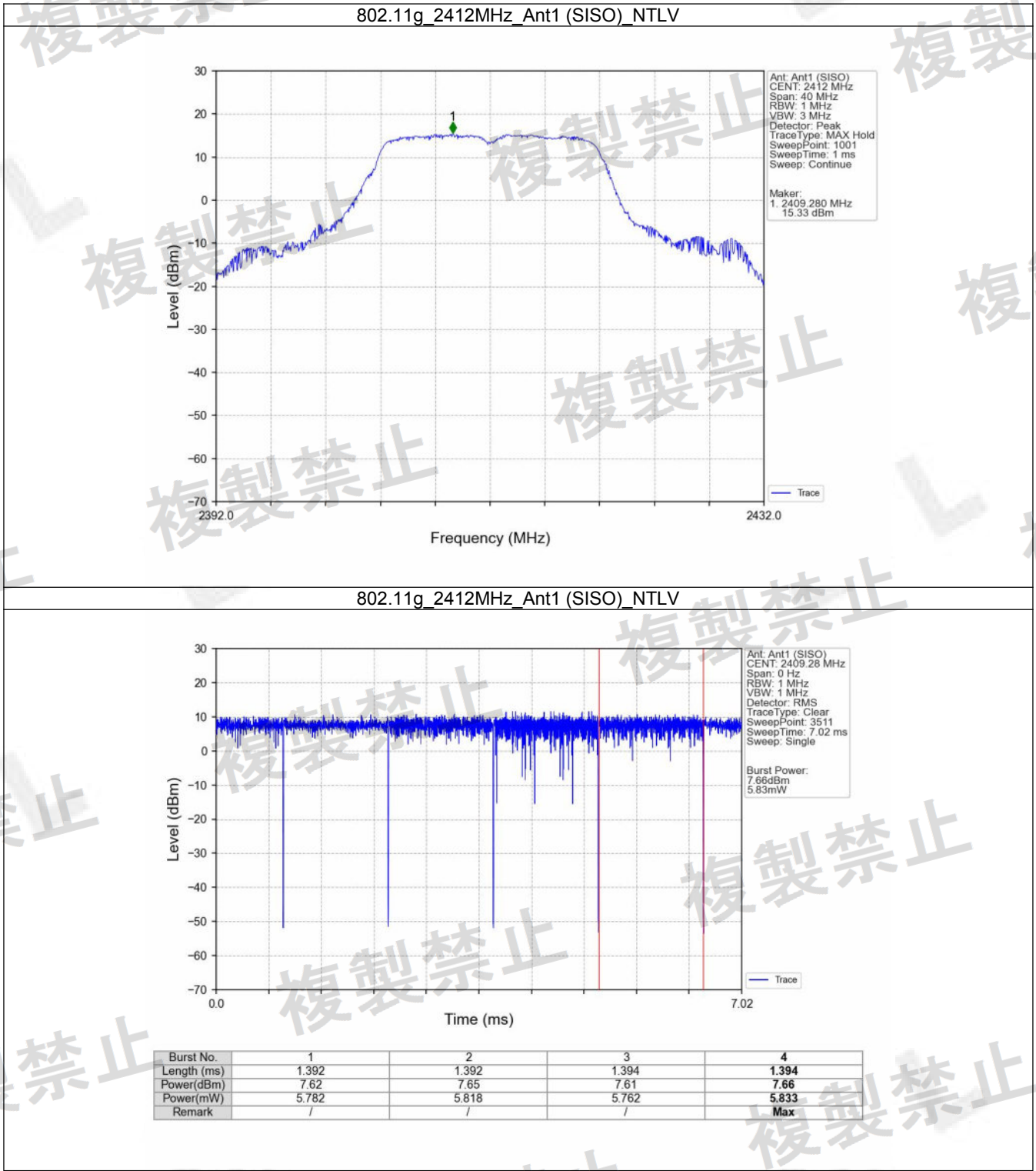


Burst No.	1	2	3	4
Length (ms)	8.386	8.388	8.386	8.388
Power(dBm)	6.23	6.23	6.23	6.23
Power(mW)	4.195	4.195	4.195	4.195
Remark	/	Max	/	/

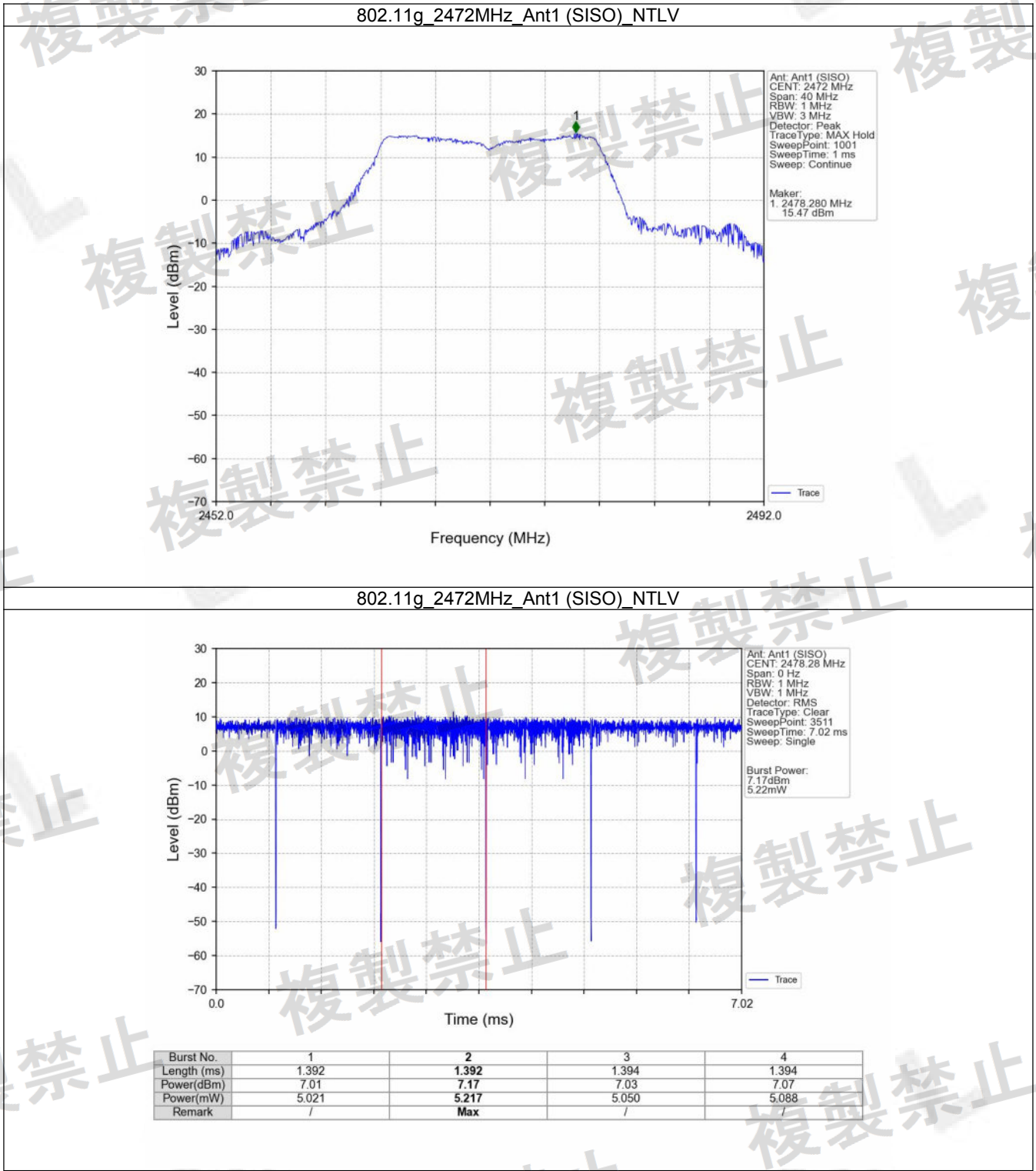
MIC: 219-259586



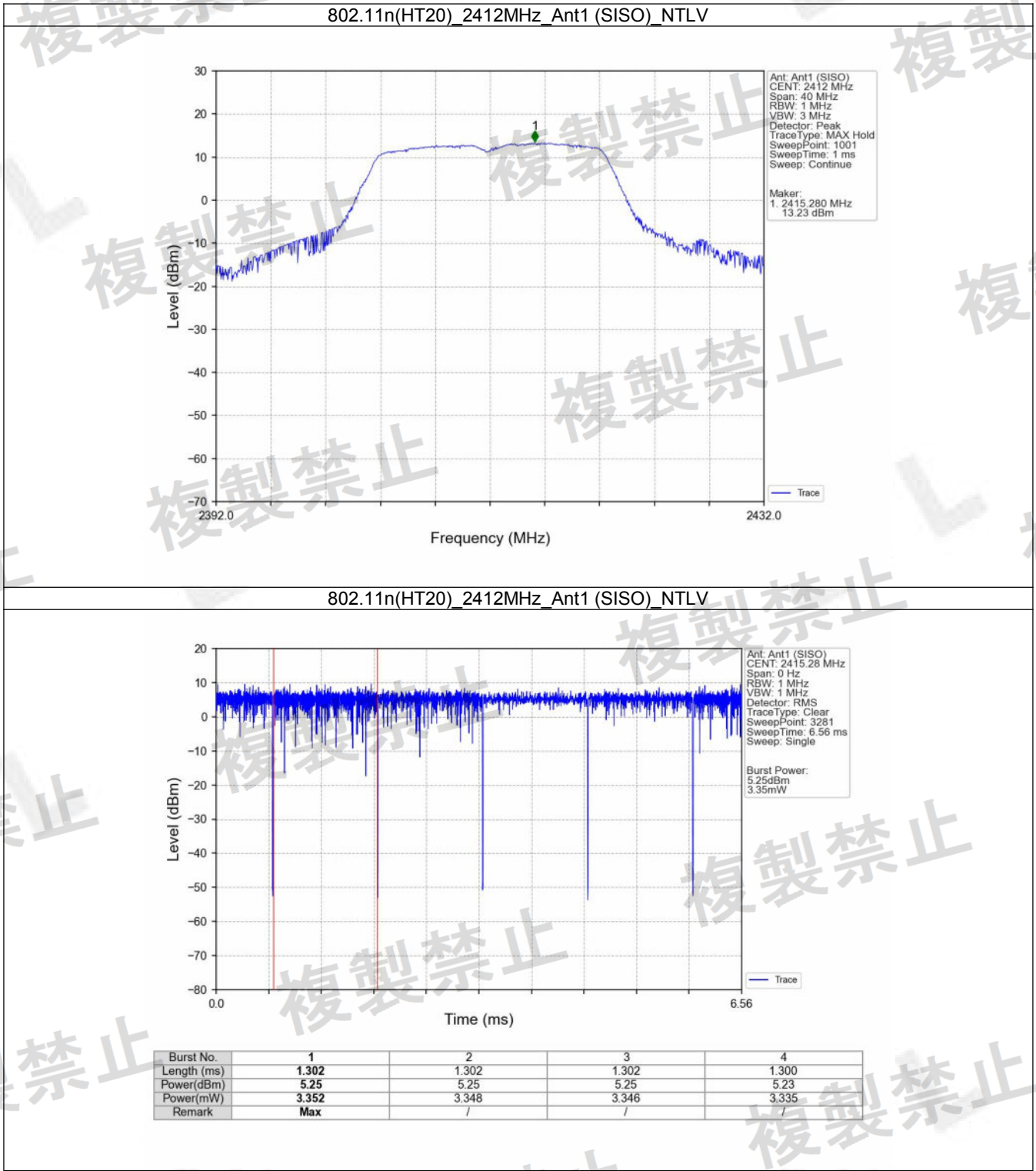
MIC: 219-259586



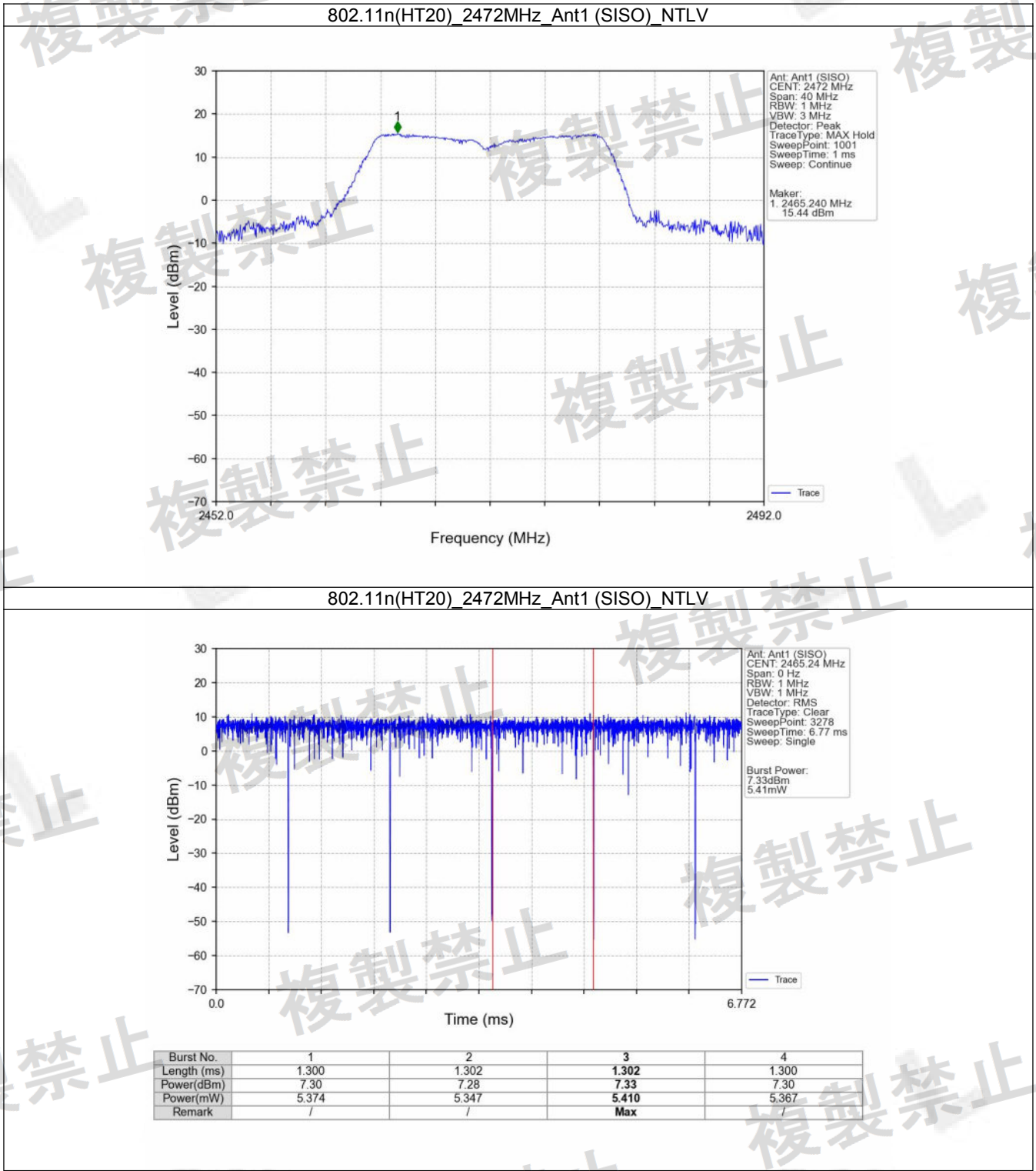
MIC: 219-259586



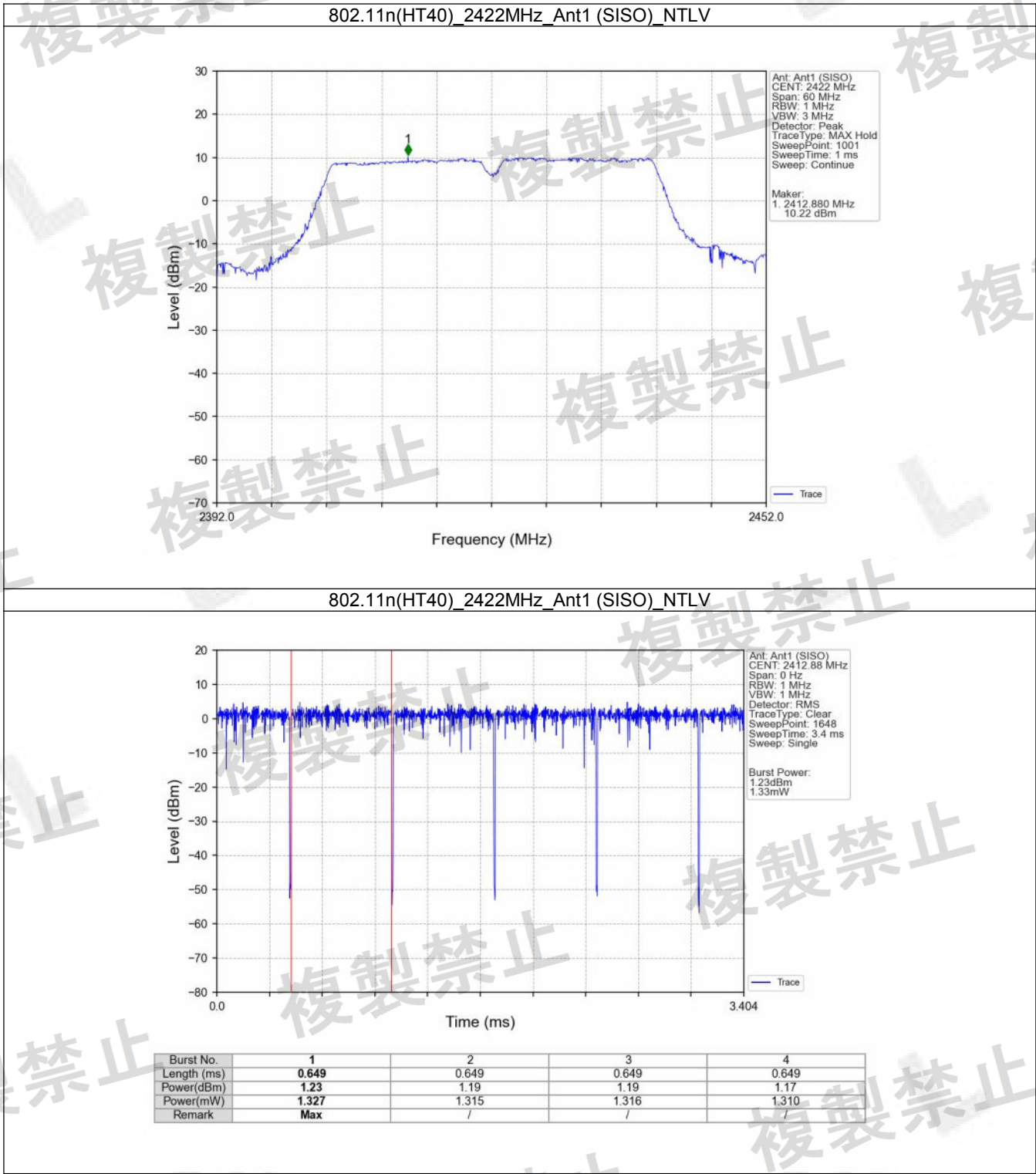
MIC: 219-259586



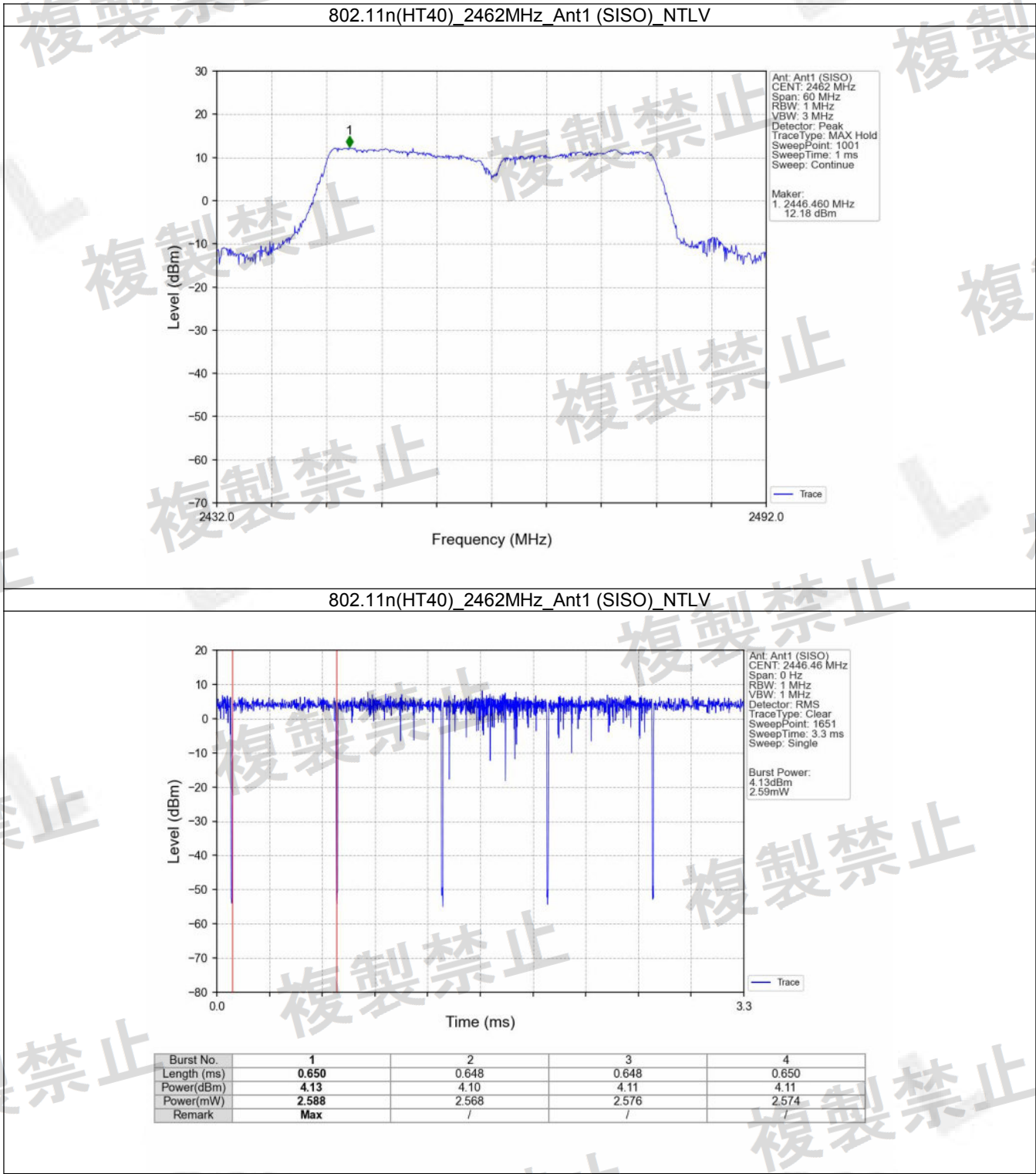
MIC: 219-259586



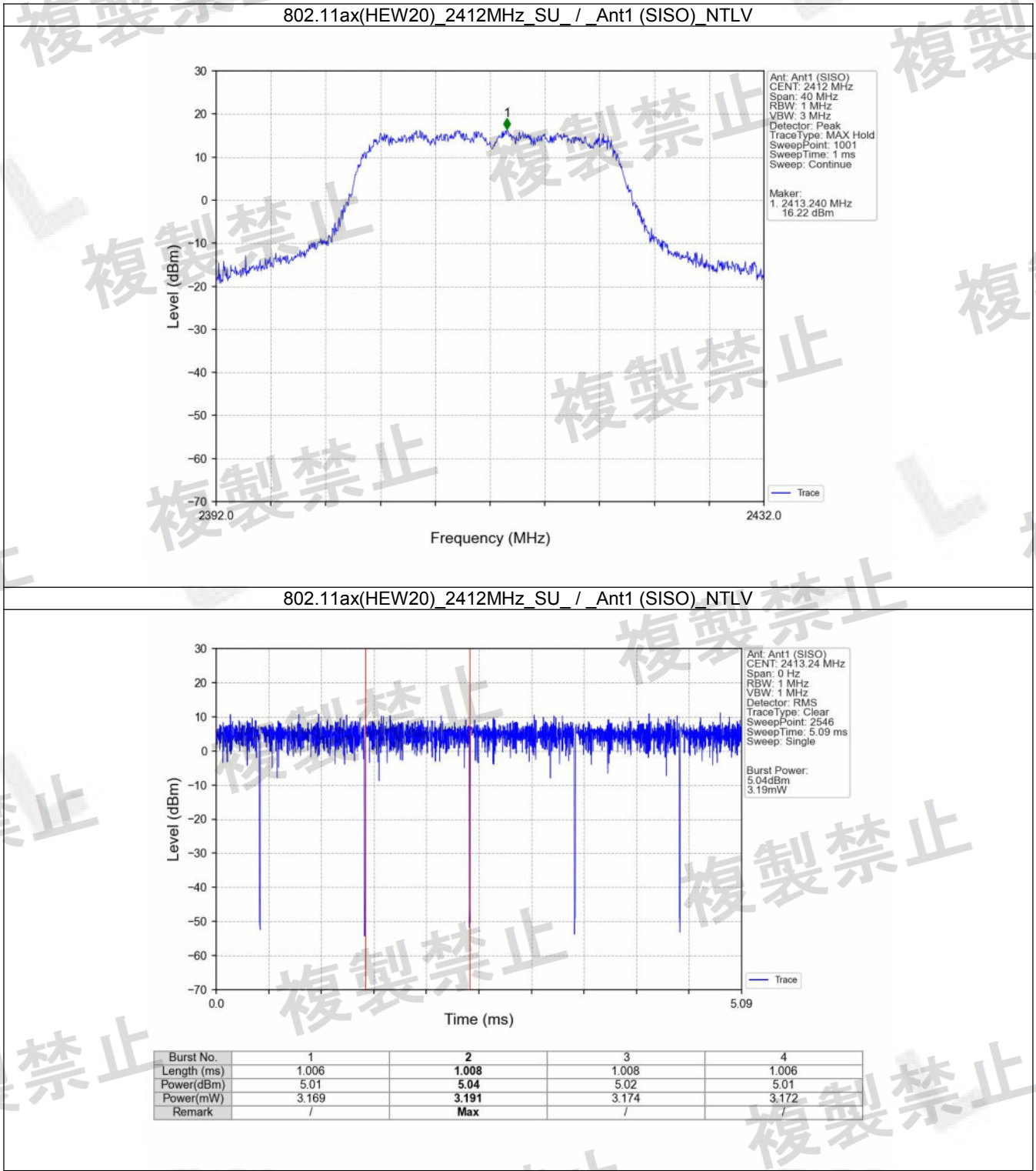
MIC: 219-259586



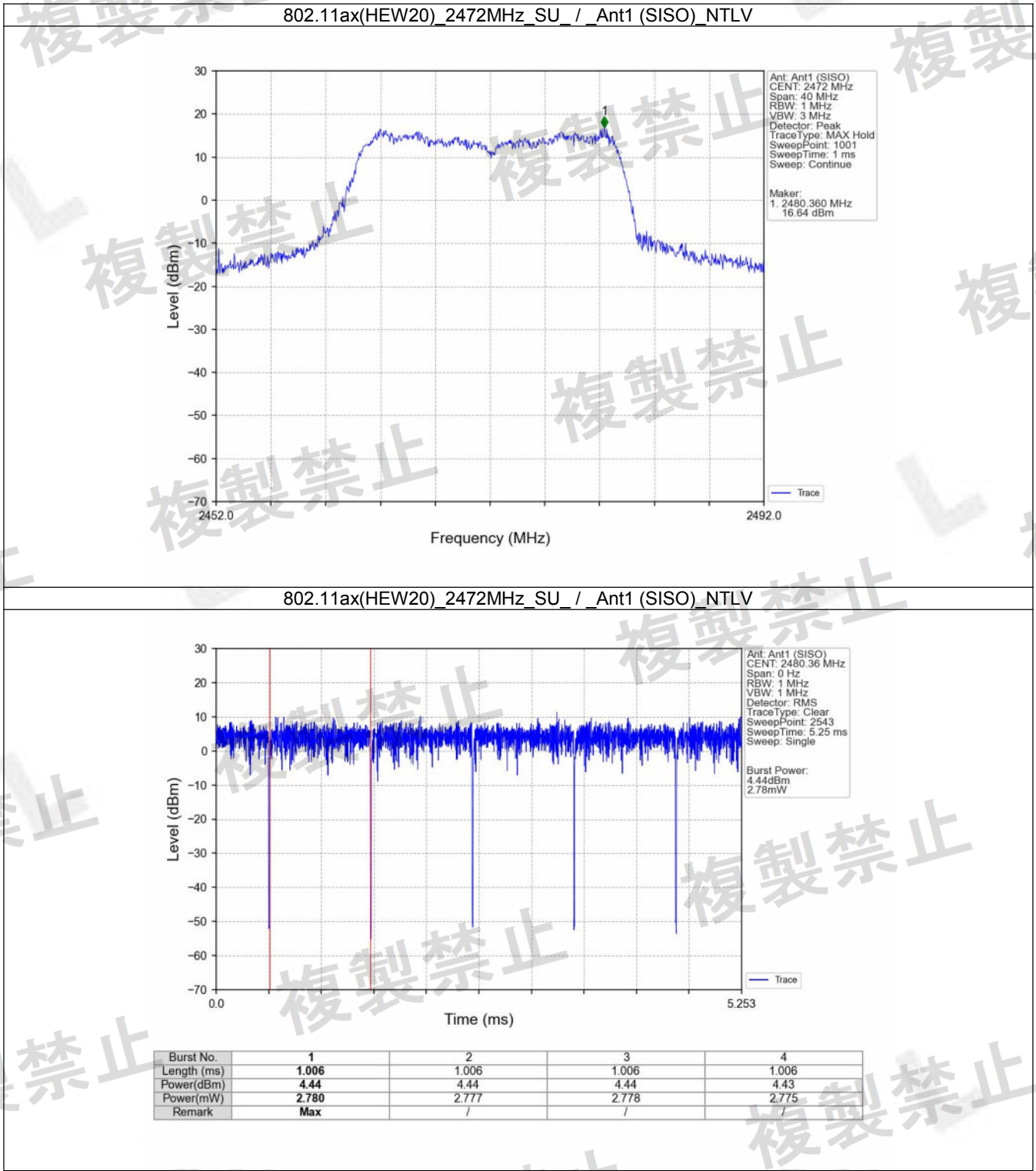
MIC: 219-259586



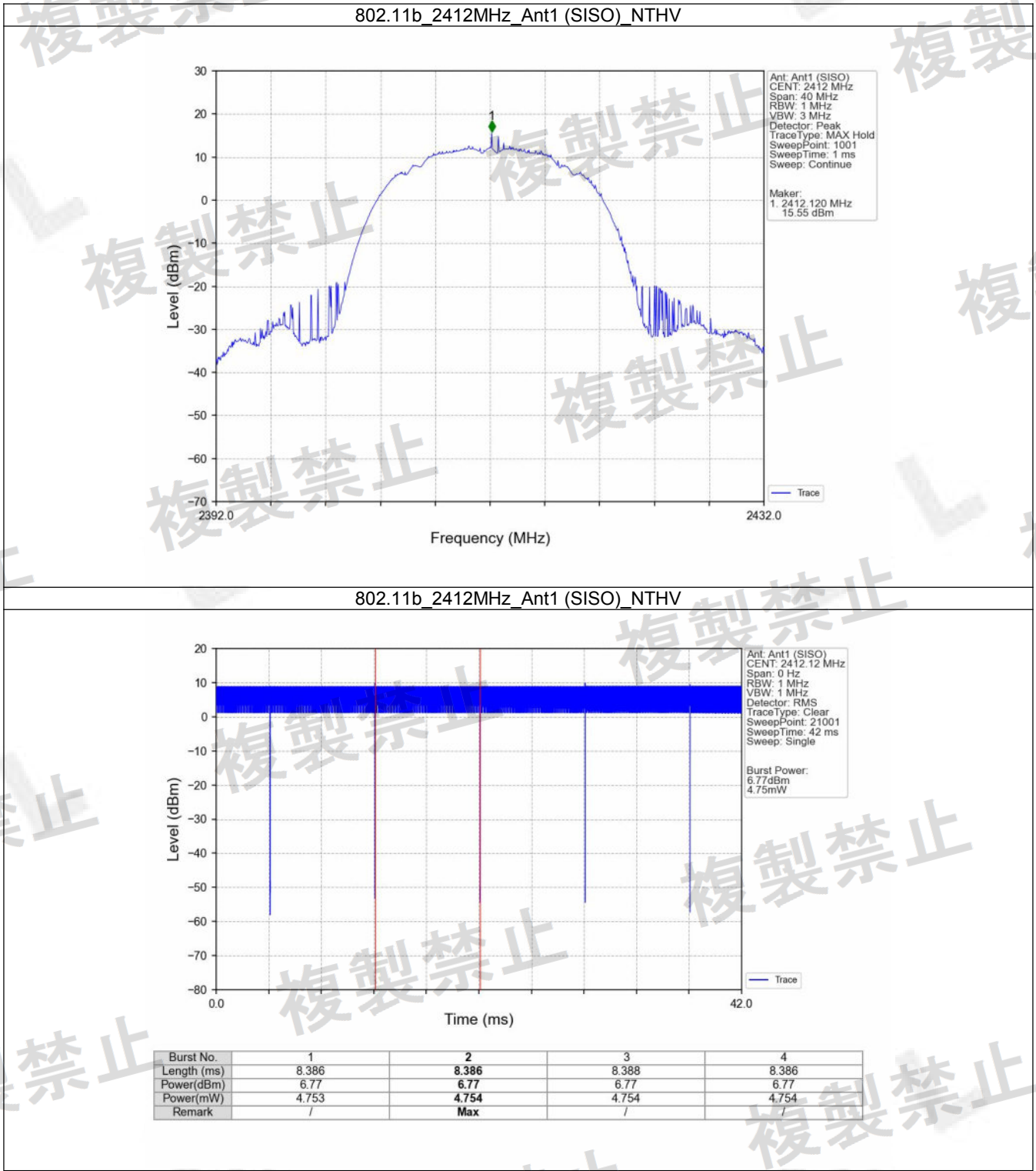
MIC: 219-259586



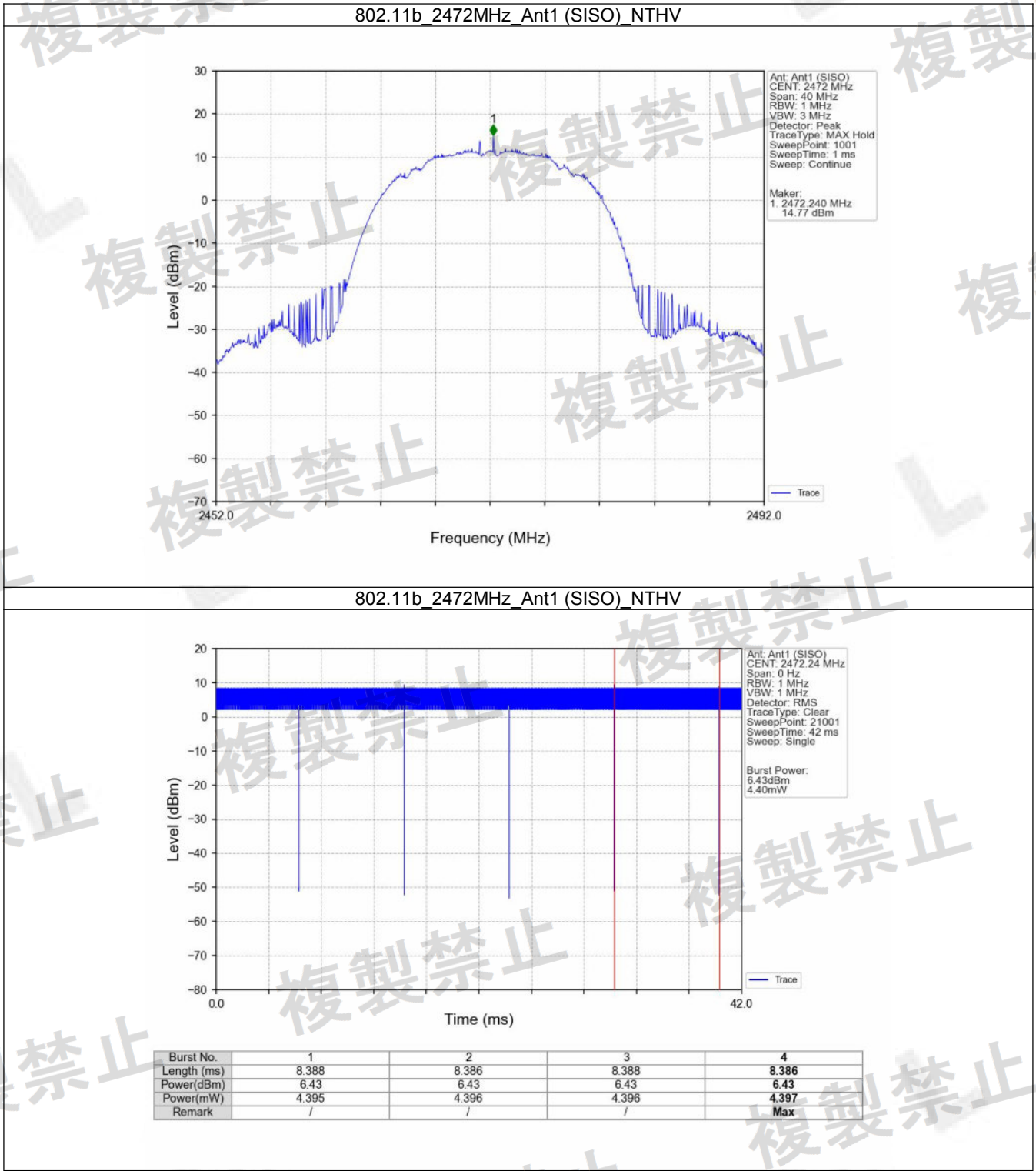
MIC: 219-259586



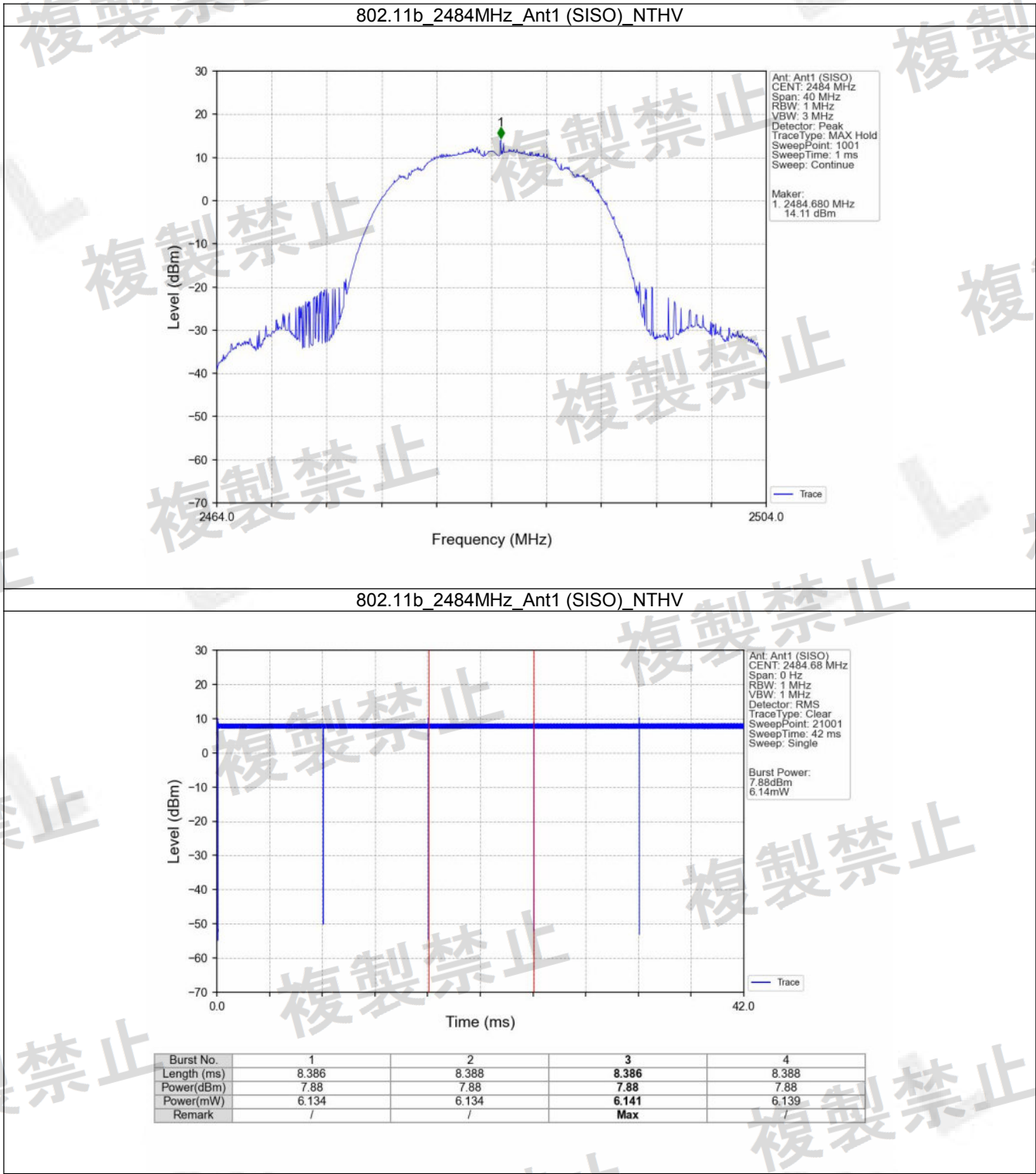
MIC: 219-259586



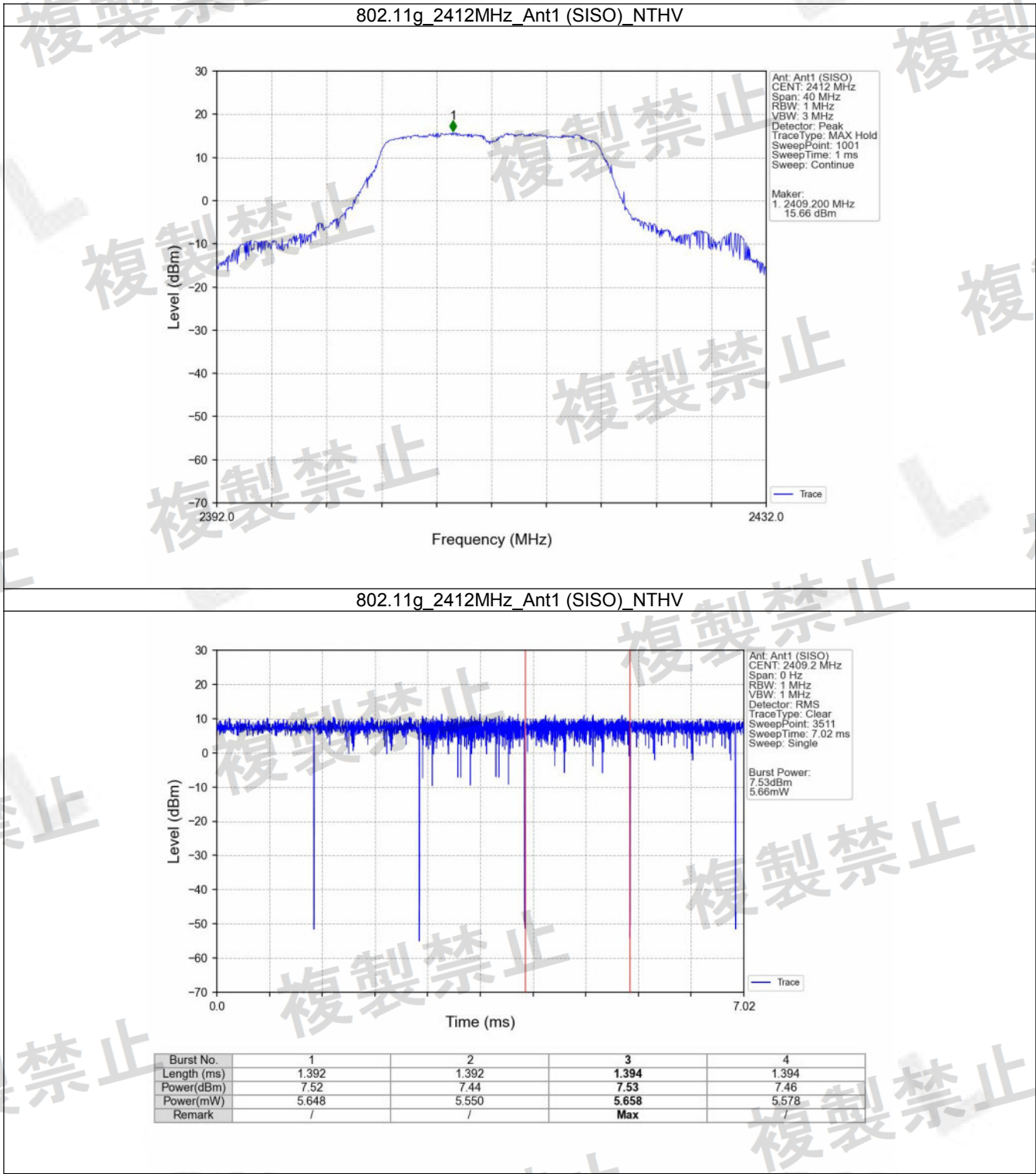
MIC: 219-259586



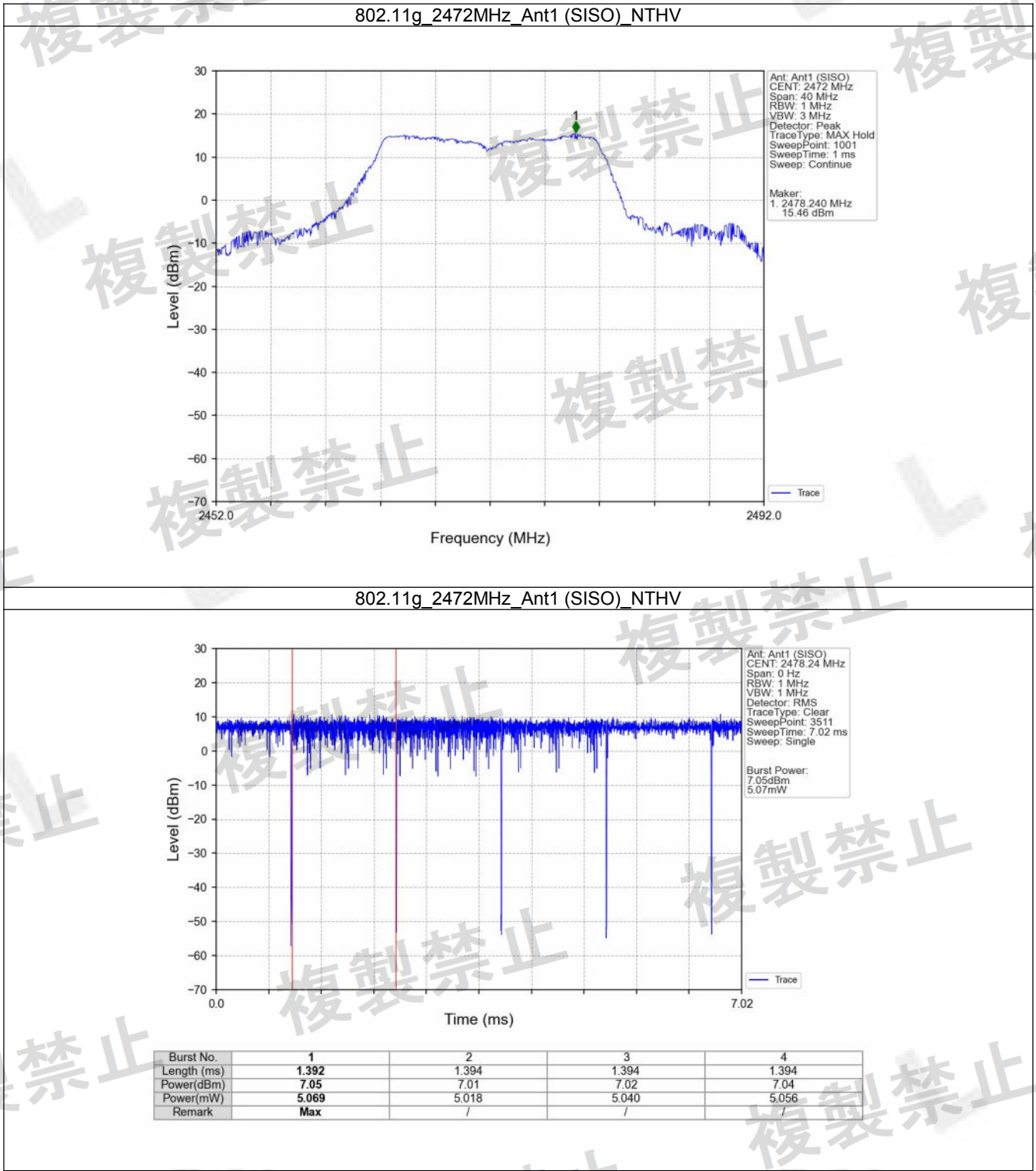
MIC: 219-259586



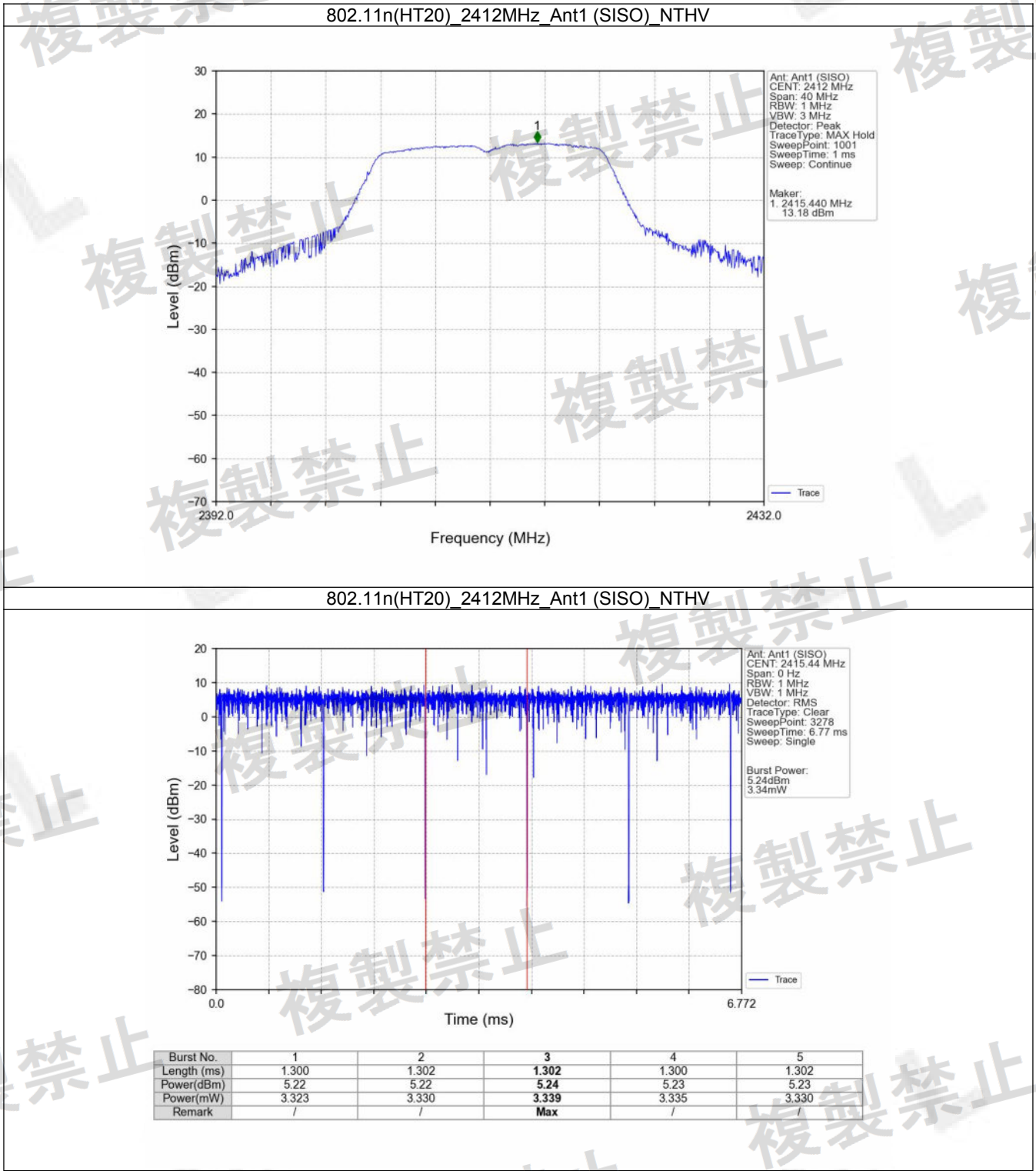
MIC: 219-259586



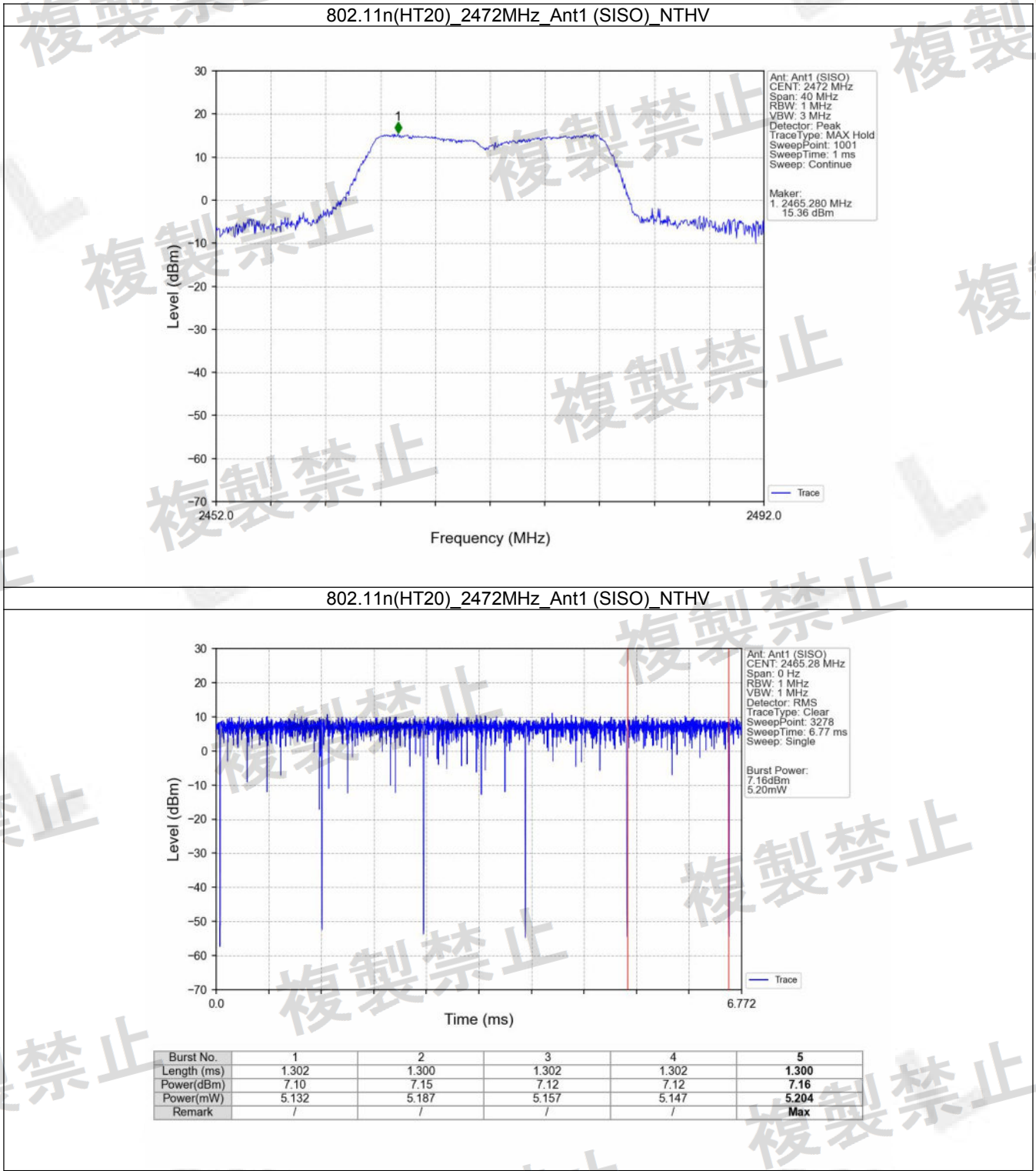
MIC: 219-259586



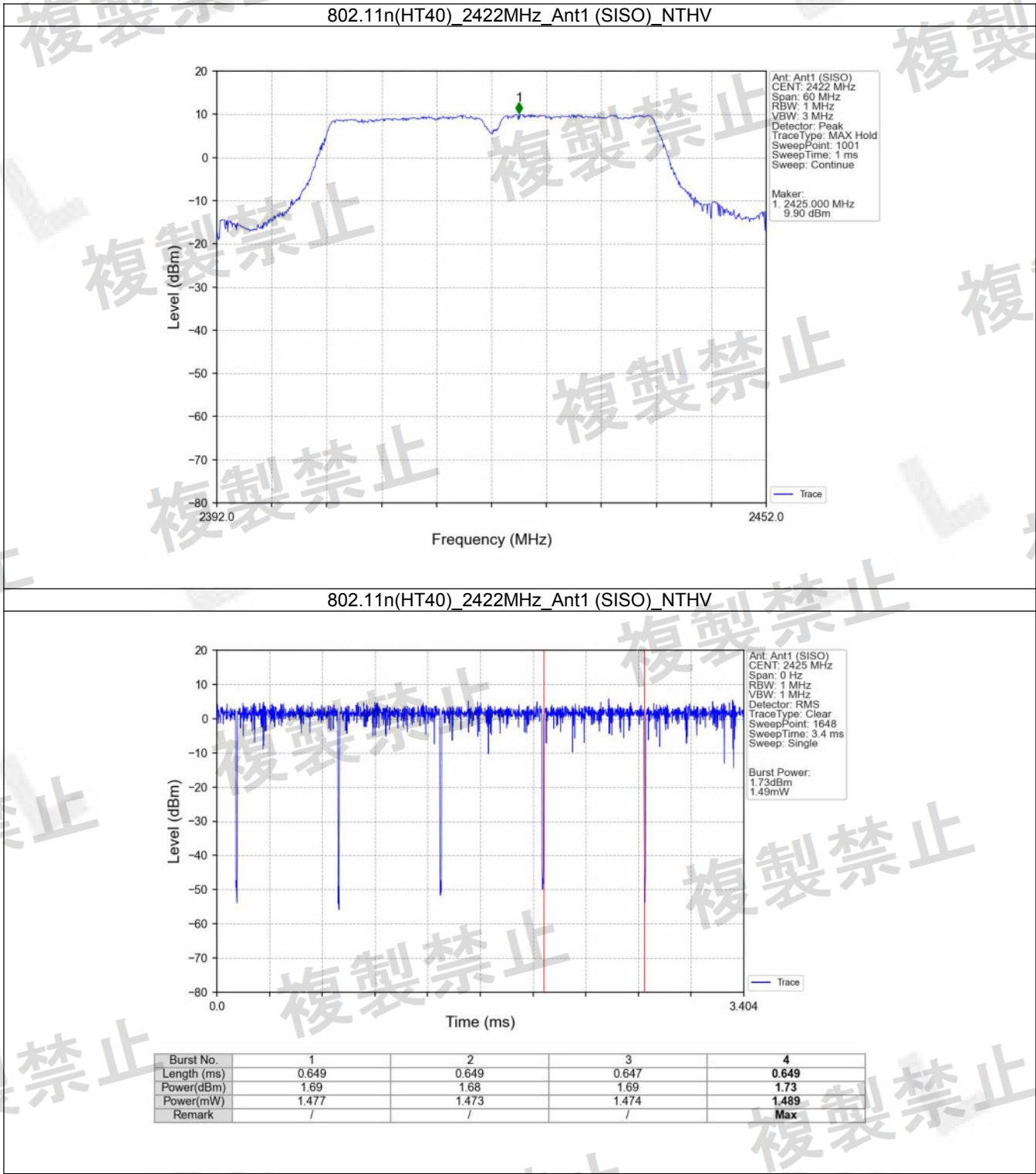
MIC: 219-259586



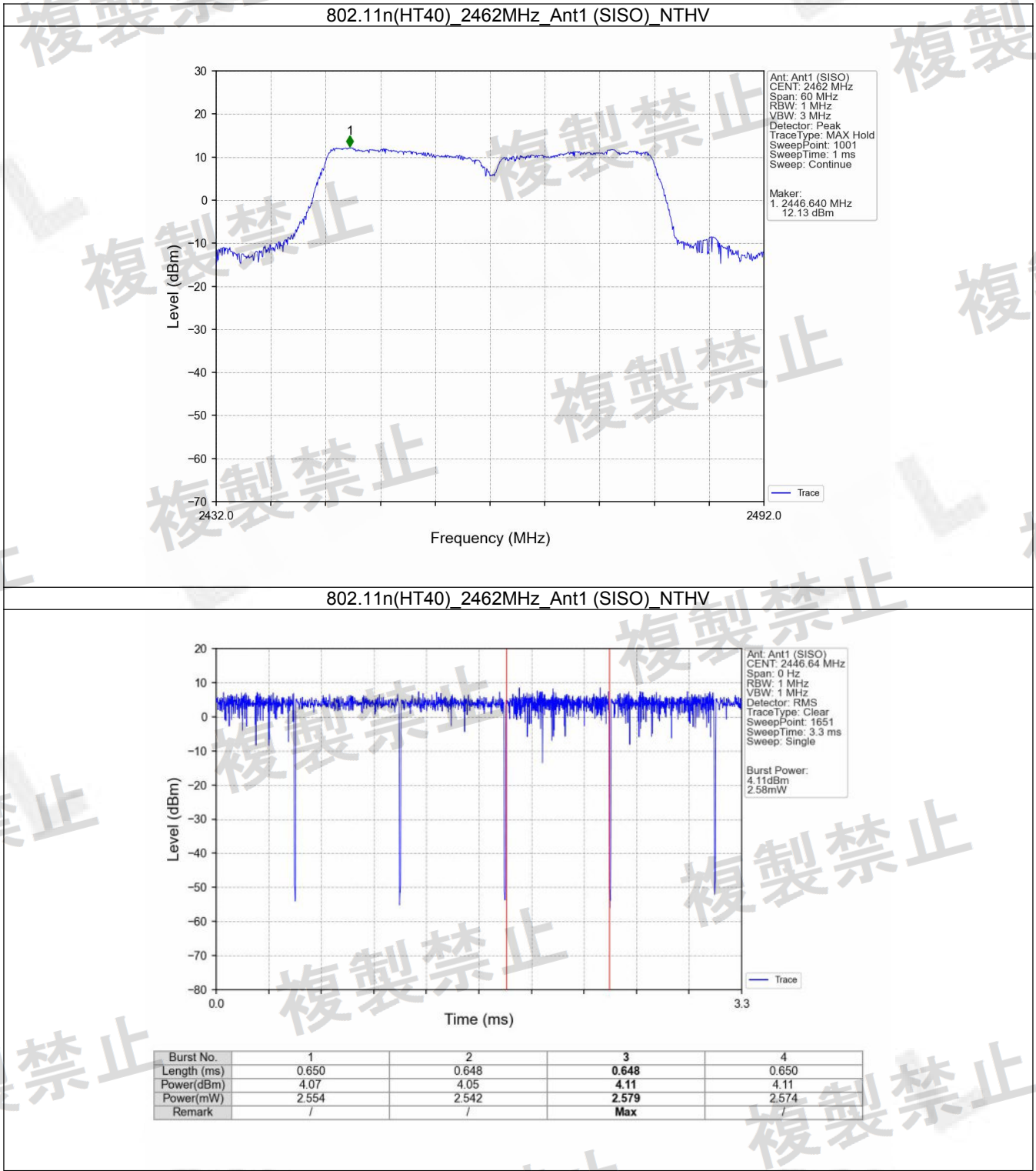
MIC: 219-259586



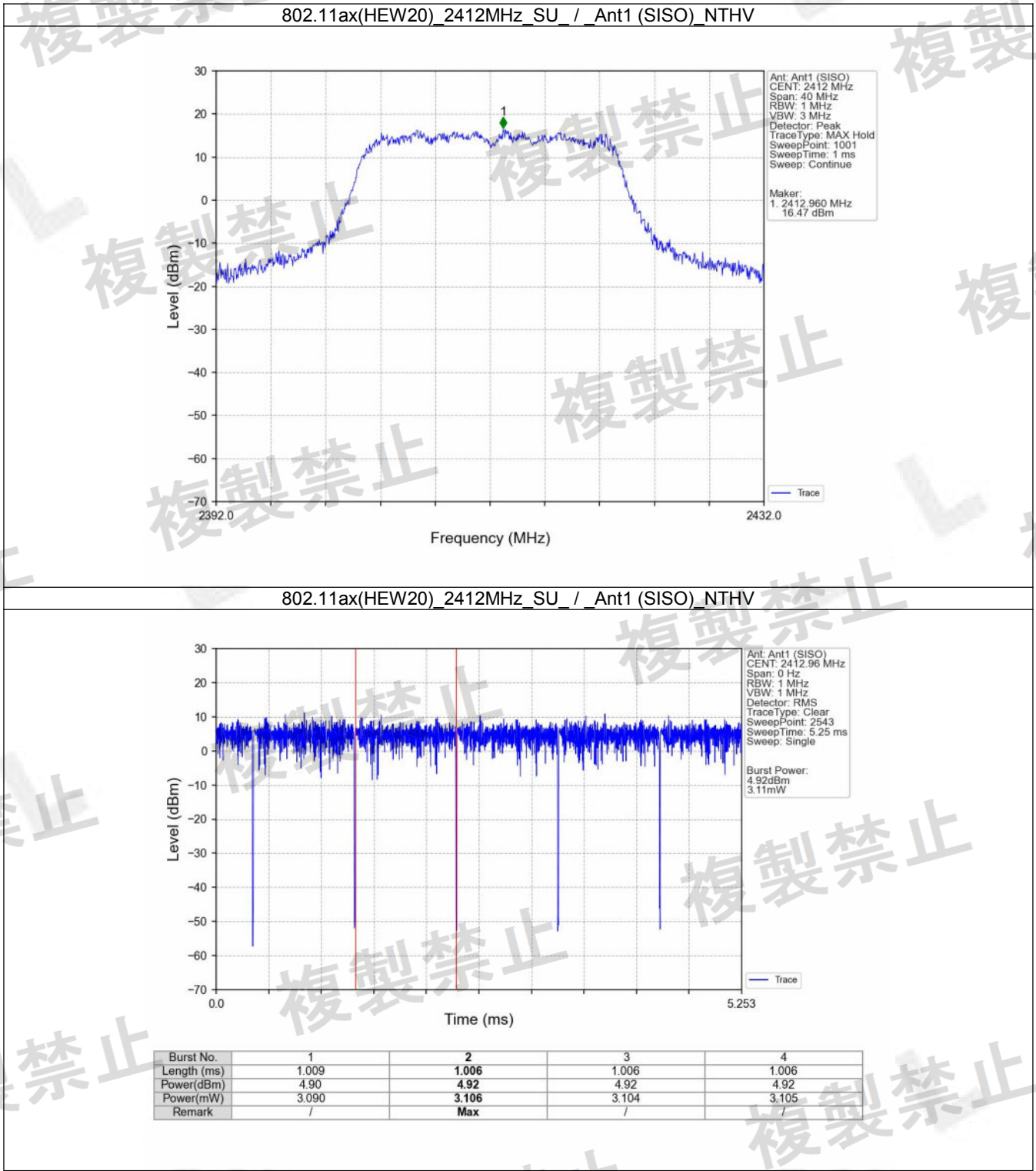
MIC: 219-259586



MIC: 219-259586

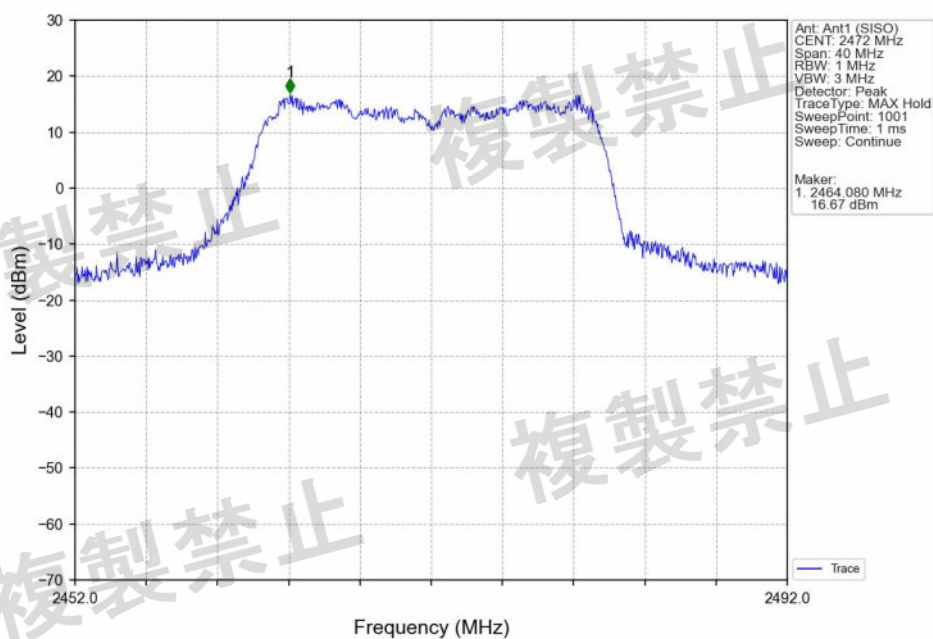


MIC: 219-259586

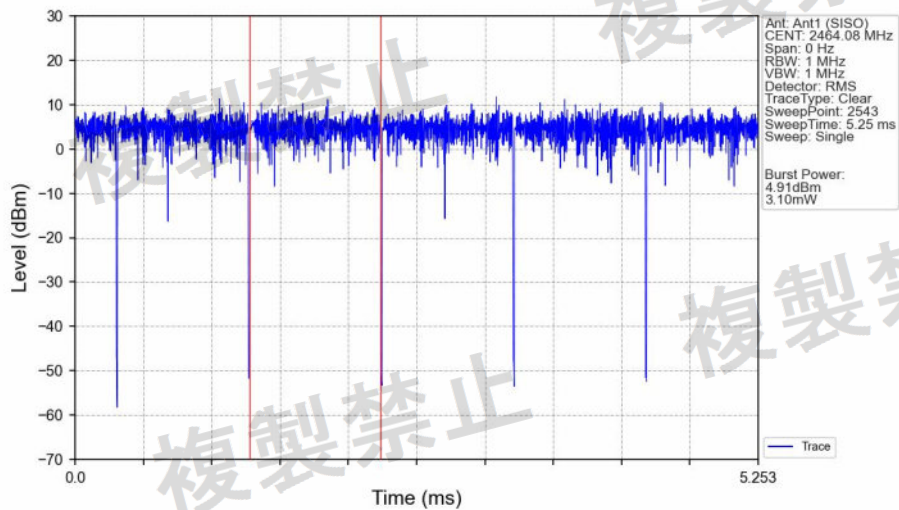


MIC: 219-259586

802.11ax(HEW20)_2472MHz_SU_/_Ant1 (SISO)_NTHV



802.11ax(HEW20)_2472MHz_SU_/_Ant1 (SISO)_NTHV



Burst No.	1	2	3	4
Length (ms)	1.006	1.006	1.006	1.006
Power(dBm)	4.88	4.91	4.90	4.90
Power(mW)	3.079	3.100	3.092	3.093
Remark	/	Max	/	/

MIC: 219-259586

4. Spurious Emission Intensity

4.1 Test Result

4.1.1 TxSe_NTNV

NTNV														
Mode	TX Type	Freq. (MHz)	RU	RU Pos	ANT	Freq. Range		Marker					Limit (uW /MHz)	Verdict
						Start (MHz)	Stop (MHz)	Freq. (MHz)	PK Power (dBm /MHz)	PK Power (uW /MHz)	AV Power (dBm /MHz)	AV Power (uW /MHz)		
802.11b	SISO	2412	/	/	1	30	2387	2211	-35.75	0.266	/	/	2.5	Pass
						2387	2400	2399.857	-20.06	9.863	/	/	25	Pass
						2483.5	2496.5	2493.172	-39.20	0.120	/	/	25	Pass
						2496.5	12500	7233.5	-31.29	0.743	/	/	2.5	Pass
		2472	/	/	1	30	2387	2166.5	-36.04	0.249	/	/	2.5	Pass
						2387	2400	2398.284	-38.92	0.128	/	/	25	Pass
						2483.5	2496.5	2484.202	-20.63	8.650	/	/	25	Pass
						2496.5	12500	7415	-34.14	0.385	/	/	2.5	Pass
		2484	/	/	1	30	2458	2142	-35.30	0.295	/	/	2.5	Pass
						2458	2471	2470.792	-24.39	3.639	/	/	25	Pass
						2497	2510	2497.351	-24.24	3.767	/	/	25	Pass
						2510	12500	7454.5	-35.29	0.296	/	/	2.5	Pass
802.11g	SISO	2412	/	/	1	30	2387	2386.5	-26.13	2.438	-42.28	0.059	2.5	Pass
						2387	2400	2399.519	-5.60	275.423	-22.95	5.070	25	Pass
						2483.5	2496.5	2494.342	-38.49	0.142	/	/	25	Pass
						2496.5	12500	7233	-28.15	1.531	-42.32	0.059	2.5	Pass
		2472	/	/	1	30	2387	2132.5	-35.65	0.272	/	/	2.5	Pass
						2387	2400	2397.127	-38.26	0.149	/	/	25	Pass
						2483.5	2496.5	2484.826	-5.26	297.852	-20.56	8.790	25	Pass
						2496.5	12500	2497	-23.95	4.027	-37.79	0.166	2.5	Pass
802.11n (HT20)	SISO	2412	/	/	1	30	2387	2386.5	-19.88	10.280	-53.89	0.004	2.5	Pass
						2387	2400	2398.388	-3.05	495.450	-53.92	0.004	25	Pass
						2483.5	2496.5	2483.695	-27.56	1.754	/	/	25	Pass
						2496.5	12500	12294	-36.92	0.203	/	/	2.5	Pass
		2472	/	/	1	30	2387	2180.5	-34.86	0.327	/	/	2.5	Pass
						2387	2400	2391.069	-39.82	0.104	/	/	25	Pass
						2483.5	2496.5	2487.647	-39.60	0.110	/	/	25	Pass
						2496.5	12500	12095	-36.36	0.231	/	/	2.5	Pass
802.11n (HT40)	SISO	2422	/	/	1	30	2387	2386.5	-12.74	53.211	-30.14	0.968	2.5	Pass
						2387	2400	2399.987	-8.25	149.624	-23.86	4.111	25	Pass
						2483.5	2496.5	2483.617	-26.45	2.265	/	/	25	Pass
						2496.5	12500	7264	-31.37	0.729	/	/	2.5	Pass
		2462	/	/	1	30	2387	2239.5	-34.00	0.398	/	/	2.5	Pass
						2387	2400	2399.974	-27.22	1.897	/	/	25	Pass
						2483.5	2496.5	2486.23	-9.36	115.878	-27.68	1.706	25	Pass
						2496.5	12500	2497	-13.46	45.082	-30.91	0.811	2.5	Pass
802.11ax (HEW20)	SISO	2412	SU	/	1	30	2387	2386.5	-26.75	2.113	-44.51	0.035	2.5	Pass
						2387	2400	2399.948	-9.23	119.399	-27.83	1.648	25	Pass
						2483.5	2496.5	2488.947	-38.95	0.127	/	/	25	Pass
						2496.5	12500	7233.5	-31.53	0.703	/	/	2.5	Pass
		2472	SU	/	1	30	2387	2104.5	-35.71	0.269	/	/	2.5	Pass

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						2387	2400	2395.268	-38.79	0.132	/	/	25	Pass
						2483.5	2496.5	2483.734	-8.51	140.929	-28.50	1.413	25	Pass
						2496.5	12500	2497.5	-22.40	5.754	-40.11	0.097	2.5	Pass

4.1.2 TxSe_NTLV

NTLV														
Mode	TX Type	Freq. (MHz)	RU	RU Pos	ANT	Freq. Range		Marker					Limit (uW /MHz)	Verdict
						Start (MHz)	Stop (MHz)	Freq. (MHz)	PK Power (dBm /MHz)	PK Power (uW /MHz)	AV Power (dBm /MHz)	AV Power (uW /MHz)		
802.11b	SISO	2412	/	/	1	30	2387	2188.5	-35.24	0.299	/	/	2.5	Pass
						2387	2400	2399.831	-20.72	8.472	/	/	25	Pass
						2483.5	2496.5	2486.022	-38.96	0.127	/	/	25	Pass
						2496.5	12500	7233	-31.35	0.733	/	/	2.5	Pass
		2472	/	/	1	30	2387	2251	-35.70	0.269	/	/	2.5	Pass
						2387	2400	2396.1	-38.81	0.132	/	/	25	Pass
						2483.5	2496.5	2483.617	-20.64	8.630	/	/	25	Pass
						2496.5	12500	7414	-34.17	0.383	/	/	2.5	Pass
		2484	/	/	1	30	2458	2088.5	-35.53	0.280	/	/	2.5	Pass
						2458	2471	2470.922	-23.47	4.498	/	/	25	Pass
						2497	2510	2497.208	-23.88	4.093	/	/	25	Pass
						2510	12500	7449.5	-34.48	0.356	/	/	2.5	Pass
802.11g	SISO	2412	/	/	1	30	2387	2386.5	-28.10	1.549	-42.38	0.058	2.5	Pass
						2387	2400	2399.558	-5.81	262.422	-22.75	5.309	25	Pass
						2483.5	2496.5	2493.952	-38.42	0.144	/	/	25	Pass
						2496.5	12500	7236	-27.75	1.679	-42.29	0.059	2.5	Pass
		2472	/	/	1	30	2387	2128.5	-35.61	0.275	/	/	2.5	Pass
						2387	2400	2387.572	-37.80	0.166	/	/	25	Pass
						2483.5	2496.5	2484.839	-4.78	332.660	-19.43	11.402	25	Pass
						2496.5	12500	2497	-24.84	3.281	-36.96	0.201	2.5	Pass
		2412	/	/	1	30	2387	2083	-35.24	0.299	/	/	2.5	Pass
						2387	2400	2395.944	-39.50	0.112	/	/	25	Pass
						2483.5	2496.5	2488.024	-39.45	0.114	/	/	25	Pass
						2496.5	12500	5920	-36.84	0.207	/	/	2.5	Pass
2472	/	/	1	30	2387	2233.5	-35.42	0.287	/	/	2.5	Pass		
				2387	2400	2399.259	-39.29	0.118	/	/	25	Pass		
				2483.5	2496.5	2485.437	-39.11	0.123	/	/	25	Pass		
				2496.5	12500	2497	-24.59	3.475	-35.77	0.265	2.5	Pass		
802.11n (HT40)	SISO	2422	/	/	1	30	2387	2386	-13.70	42.658	-31.14	0.769	2.5	Pass
						2387	2400	2399.922	-7.88	162.930	-24.60	3.467	25	Pass
						2483.5	2496.5	2484.15	-27.22	1.897	/	/	25	Pass
						2496.5	12500	7266.5	-32.25	0.596	/	/	2.5	Pass
		2462	/	/	1	30	2387	2217.5	-35.78	0.264	/	/	2.5	Pass
						2387	2400	2399.974	-27.10	1.950	/	/	25	Pass
						2483.5	2496.5	2486.477	-9.47	112.980	-27.98	1.592	25	Pass
						2496.5	12500	2497	-15.08	31.046	-31.04	0.787	2.5	Pass
802.11ax (HEW20)	SISO	2412	SU	/	1	30	2387	2386.5	-28.56	1.393	-44.53	0.035	2.5	Pass
						2387	2400	2399.974	-9.26	118.577	-27.71	1.694	25	Pass
						2483.5	2496.5	2493.198	-38.89	0.129	/	/	25	Pass
						2496.5	12500	7238.5	-29.30	1.175	/	/	2.5	Pass
		2472	SU	/	1	30	2387	2222	-34.93	0.321	/	/	2.5	Pass
						2387	2400	2398.609	-38.41	0.144	/	/	25	Pass
						2483.5	2496.5	2483.604	-9.39	115.080	-28.45	1.429	25	Pass
						2496.5	12500	2497	-21.28	7.447	-39.53	0.111	2.5	Pass

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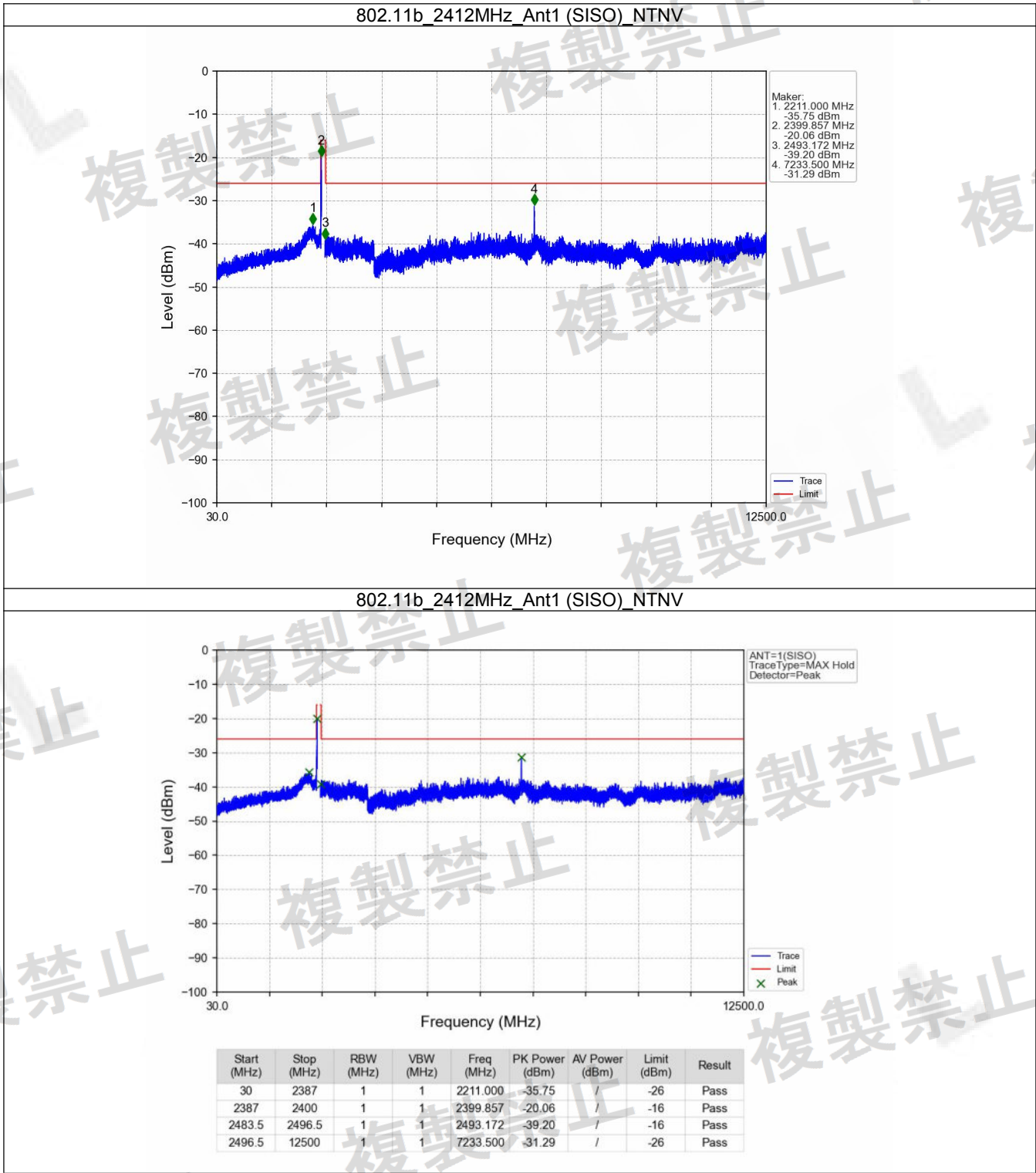
4.1.3 TxSe_NTHV

NTHV														
Mode	TX Type	Freq. (MHz)	RU	RU Pos	ANT	Freq. Range		Marker					Limit (uW /MHz)	Verdict
						Start (MHz)	Stop (MHz)	Freq. (MHz)	PK Power (dBm /MHz)	PK Power (uW /MHz)	AV Power (dBm /MHz)	AV Power (uW /MHz)		
802.11b	SISO	2412	/	/	1	30	2387	2117	-35.63	0.274	/	/	2.5	Pass
						2387	2400	2399.896	-20.55	8.810	/	/	25	Pass
						2483.5	2496.5	2486.659	-37.99	0.159	/	/	25	Pass
						2496.5	12500	7235	-31.55	0.700	/	/	2.5	Pass
		2472	/	/	1	30	2387	2235	-35.35	0.292	/	/	2.5	Pass
						2387	2400	2392.499	-38.54	0.140	/	/	25	Pass
						2483.5	2496.5	2483.968	-20.62	8.670	/	/	25	Pass
						2496.5	12500	7415	-34.72	0.337	/	/	2.5	Pass
		2484	/	/	1	30	2458	2199	-35.33	0.293	/	/	2.5	Pass
						2458	2471	2470.935	-23.00	5.012	/	/	25	Pass
						2497	2510	2497.208	-23.32	4.656	/	/	25	Pass
						2510	12500	7450	-34.82	0.330	/	/	2.5	Pass
802.11g	SISO	2412	/	/	1	30	2387	2386	-28.06	1.563	-42.53	0.056	2.5	Pass
						2387	2400	2399.48	-5.84	260.615	-22.70	5.370	25	Pass
						2483.5	2496.5	2492.483	-38.26	0.149	/	/	25	Pass
						2496.5	12500	7237.5	-28.15	1.531	-42.29	0.059	2.5	Pass
		2472	/	/	1	30	2387	2093.5	-35.63	0.274	/	/	2.5	Pass
						2387	2400	2393.929	-37.89	0.163	/	/	25	Pass
						2483.5	2496.5	2484.15	-3.75	421.697	-18.52	14.060	25	Pass
						2496.5	12500	2497.5	-22.29	5.902	-36.56	0.221	2.5	Pass
802.11n (HT20)	SISO	2412	/	/	1	30	2387	2212.5	-35.66	0.272	/	/	2.5	Pass
						2387	2400	2389.288	-39.34	0.116	/	/	25	Pass
						2483.5	2496.5	2483.851	-39.42	0.114	/	/	25	Pass
						2496.5	12500	5960	-36.93	0.203	/	/	2.5	Pass
		2472	/	/	1	30	2387	2166.5	-34.61	0.346	/	/	2.5	Pass
						2387	2400	2399.714	-37.19	0.191	/	/	25	Pass
						2483.5	2496.5	2484.709	-1.41	722.770	-19.99	10.023	25	Pass
						2496.5	12500	6681	-36.34	0.232	/	/	2.5	Pass
802.11n (HT40)	SISO	2422	/	/	1	30	2387	2385.5	-12.47	56.624	-31.91	0.644	2.5	Pass
						2387	2400	2398.973	-8.40	144.544	-25.97	2.529	25	Pass
						2483.5	2496.5	2484.15	-27.52	1.770	/	/	25	Pass
						2496.5	12500	7255.5	-32.07	0.621	/	/	2.5	Pass
		2462	/	/	1	30	2387	2207.5	-35.82	0.262	/	/	2.5	Pass
						2387	2400	2399.922	-26.73	2.123	/	/	25	Pass
						2483.5	2496.5	2486.308	-9.59	109.901	-28.09	1.552	25	Pass
						2496.5	12500	2498.5	-15.00	31.623	-26.30	2.344	2.5	Pass
802.11ax (HEW20)	SISO	2412	SU	/	1	30	2387	2386.5	-27.28	1.871	-44.60	0.035	2.5	Pass
						2387	2400	2399.974	-9.65	108.393	-27.95	1.603	25	Pass
						2483.5	2496.5	2495.785	-38.99	0.126	/	/	25	Pass
						2496.5	12500	7231	-28.67	1.358	-45.98	0.025	2.5	Pass
		2472	SU	/	1	30	2387	2204	-35.14	0.306	/	/	2.5	Pass
						2387	2400	2394.943	-38.55	0.140	/	/	25	Pass
						2483.5	2496.5	2483.76	-8.53	140.281	-28.89	1.291	25	Pass
						2496.5	12500	2497.5	-22.40	5.754	-40.47	0.090	2.5	Pass

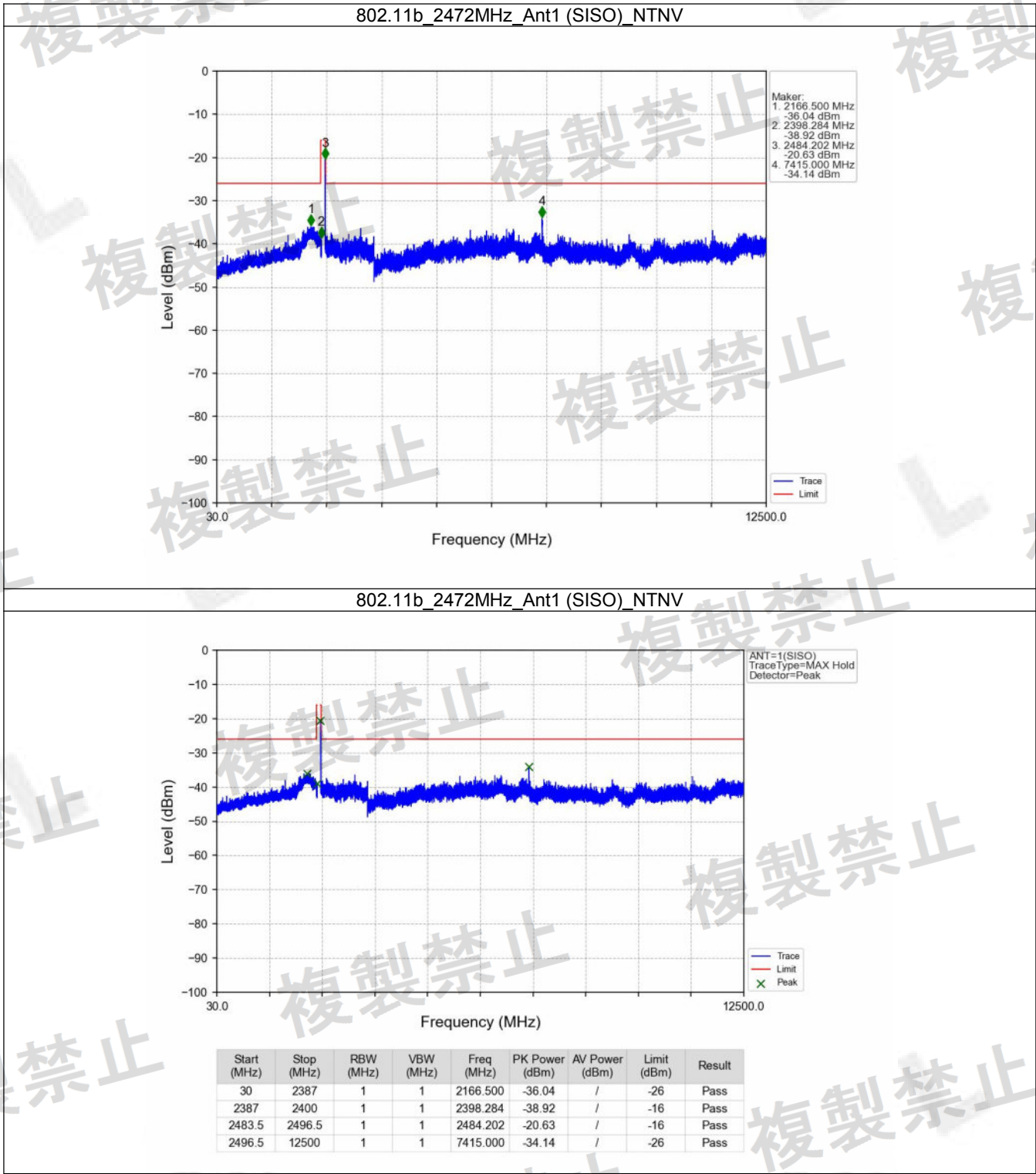
MIC: 219-259586

4.2 Test Graph

4.2.1 TxSe_NTNV

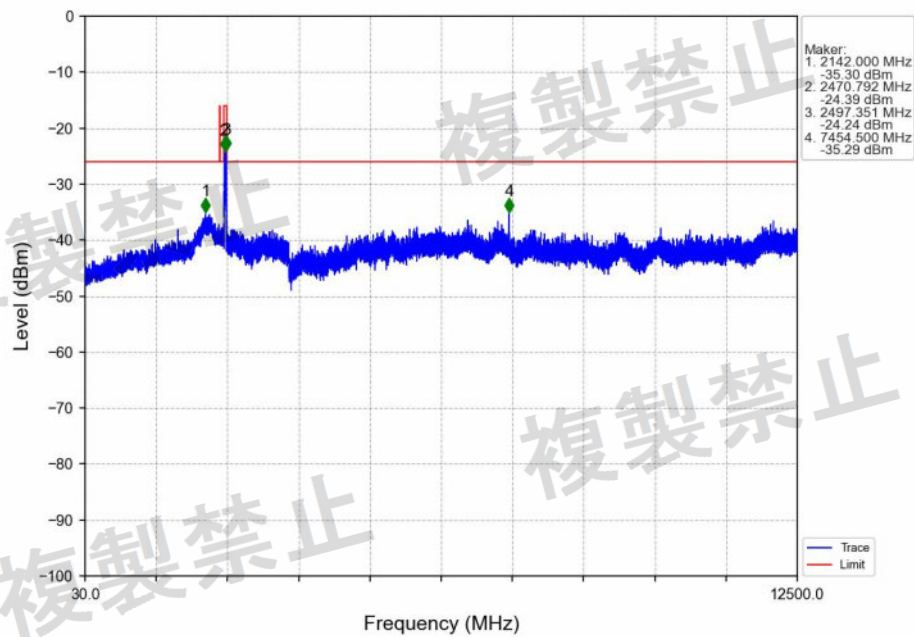


MIC: 219-259586

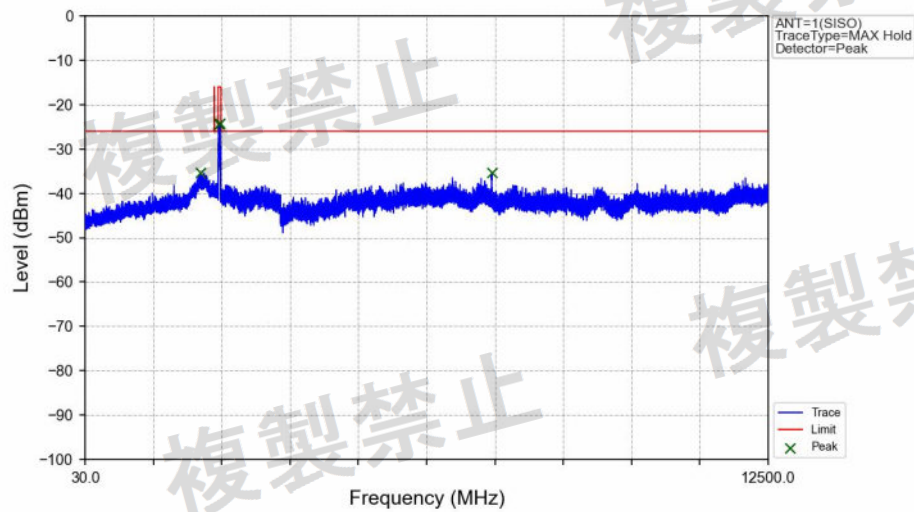


MIC: 219-259586

802.11b_2484MHz_Ant1 (SISO)_NTNV

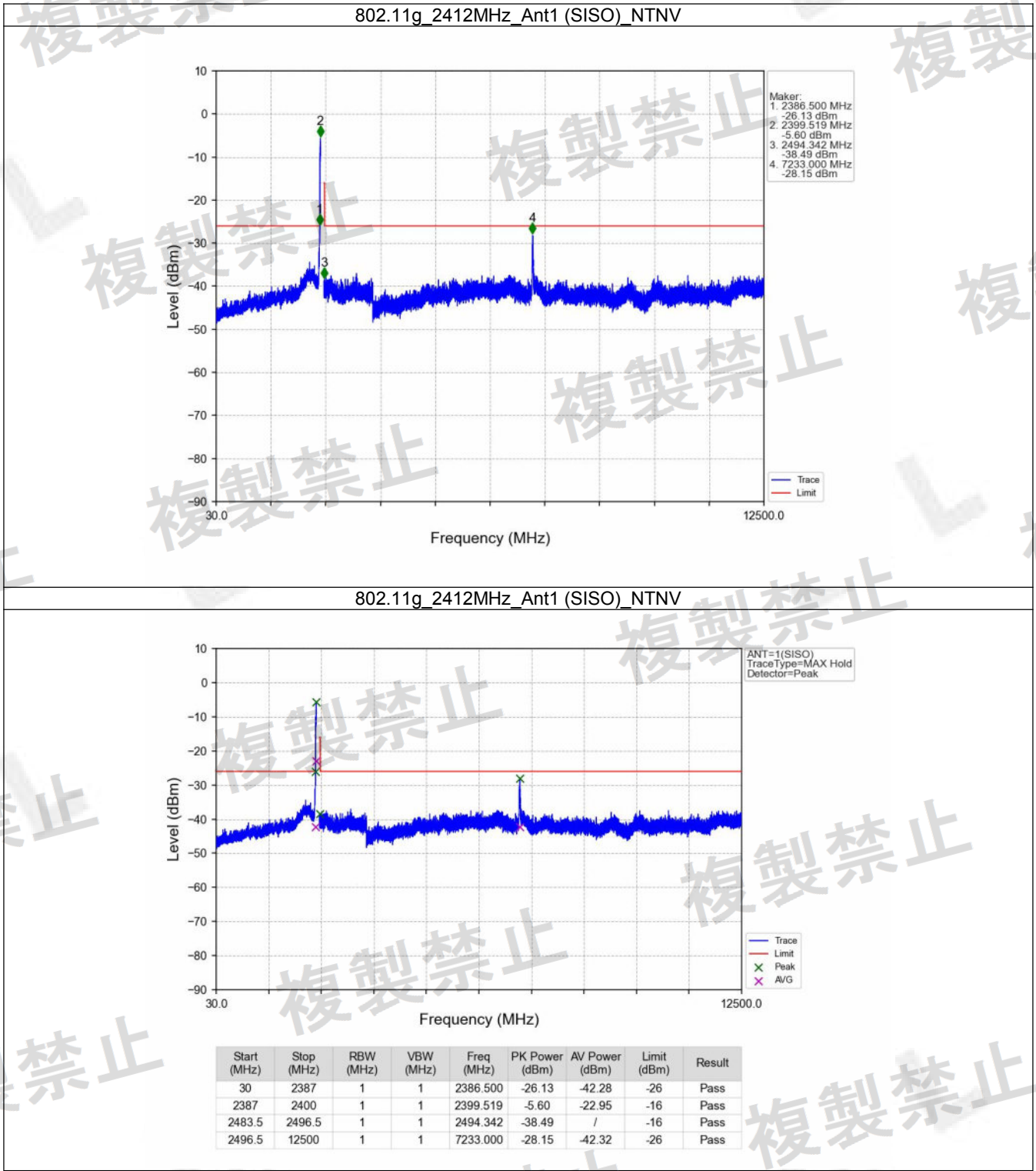


802.11b_2484MHz_Ant1 (SISO)_NTNV

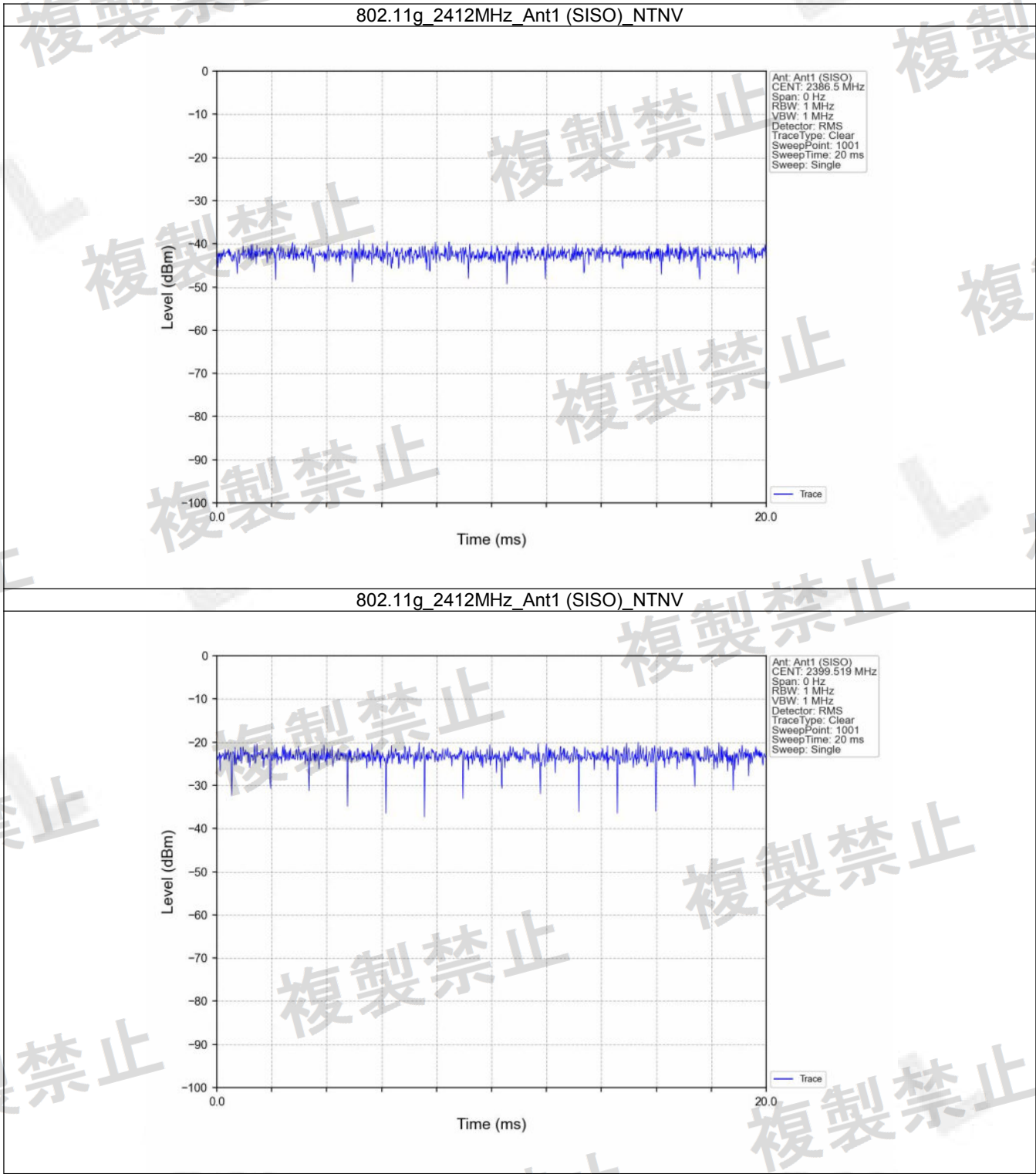


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	2458	1	1	2142.000	-35.30	/	-26	Pass
2458	2471	1	1	2470.792	-24.39	/	-16	Pass
2497	2510	1	1	2497.351	-24.24	/	-16	Pass
2510	12500	1	1	7454.500	-35.29	/	-26	Pass

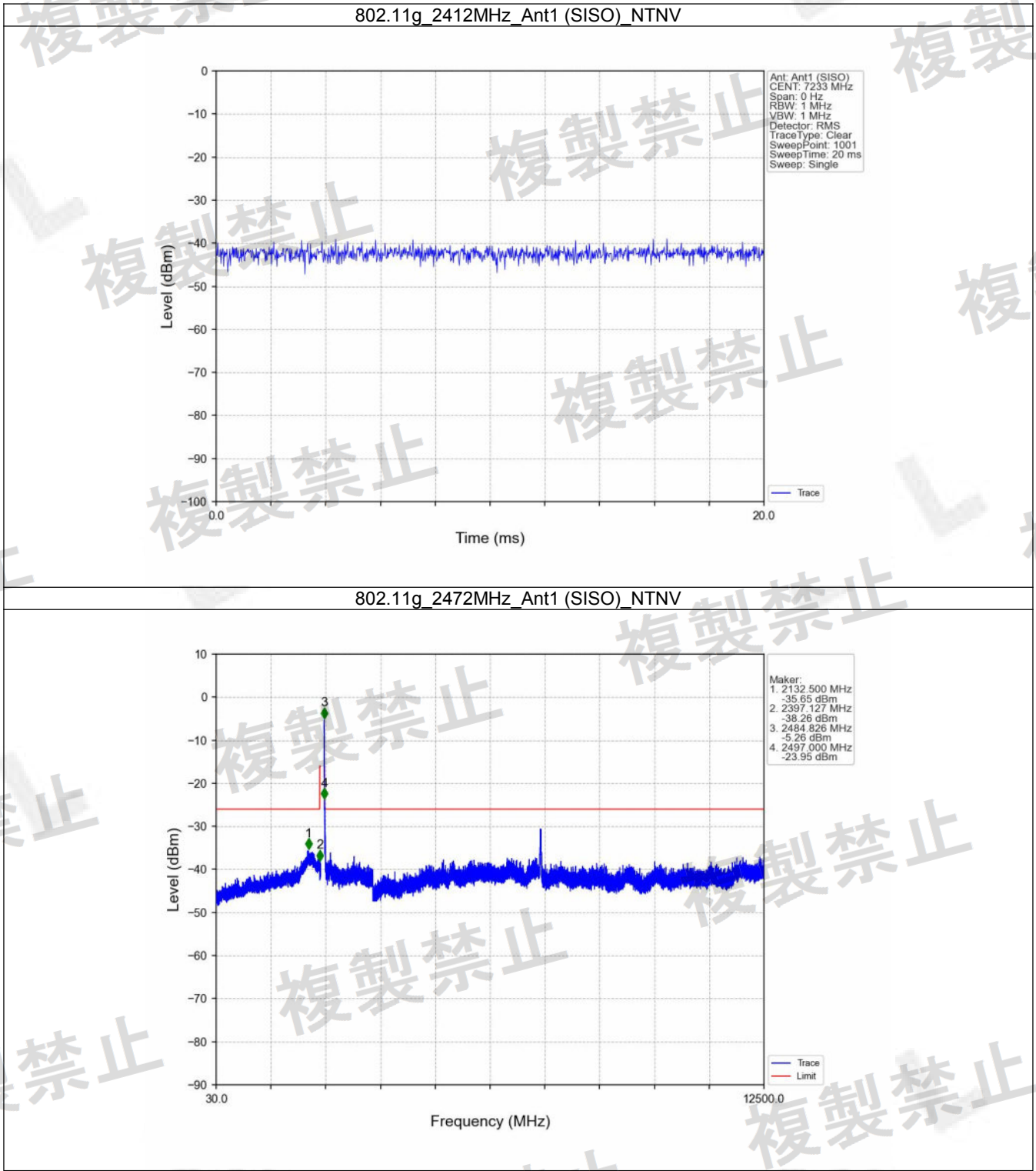
MIC: 219-259586



MIC: 219-259586

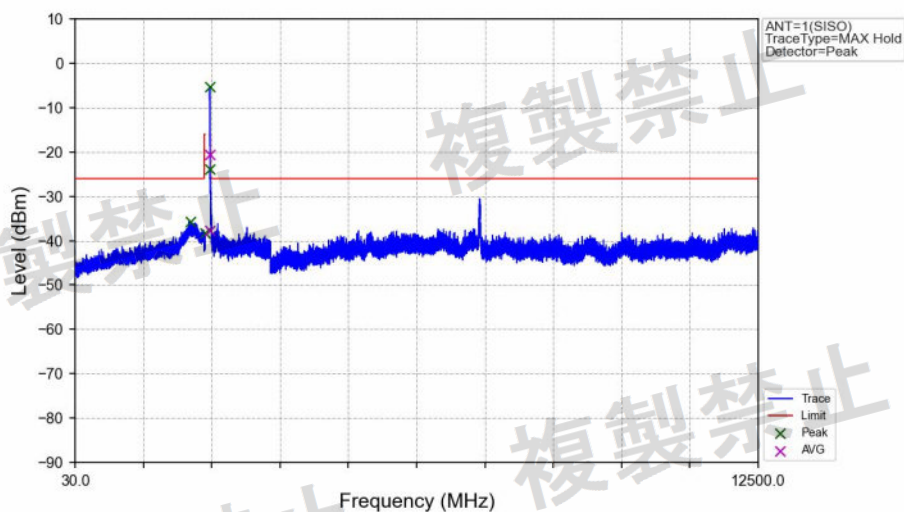


MIC: 219-259586



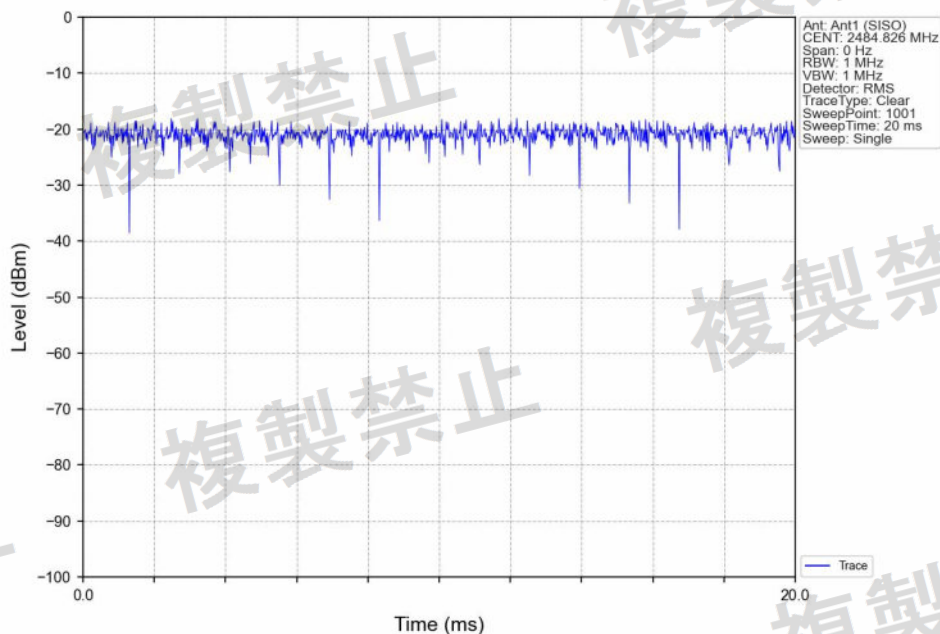
MIC: 219-259586

802.11g_2472MHz_Ant1 (SISO)_NTNV

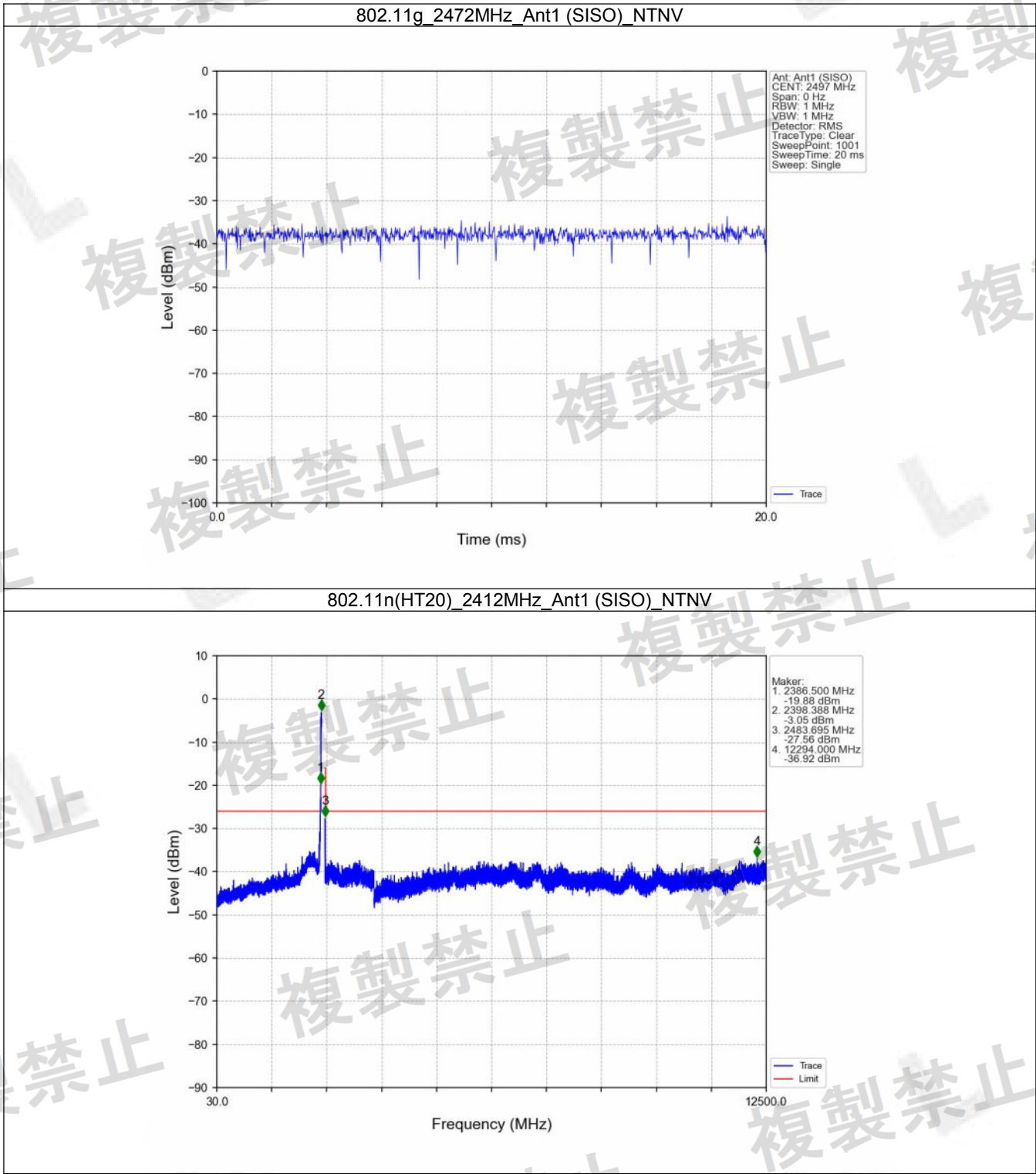


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	2387	1	1	2132.500	-35.65	/	-26	Pass
2387	2400	1	1	2397.127	-38.26	/	-16	Pass
2483.5	2496.5	1	1	2484.826	-5.26	-20.56	-16	Pass
2496.5	12500	1	1	2497.000	-23.95	-37.79	-26	Pass

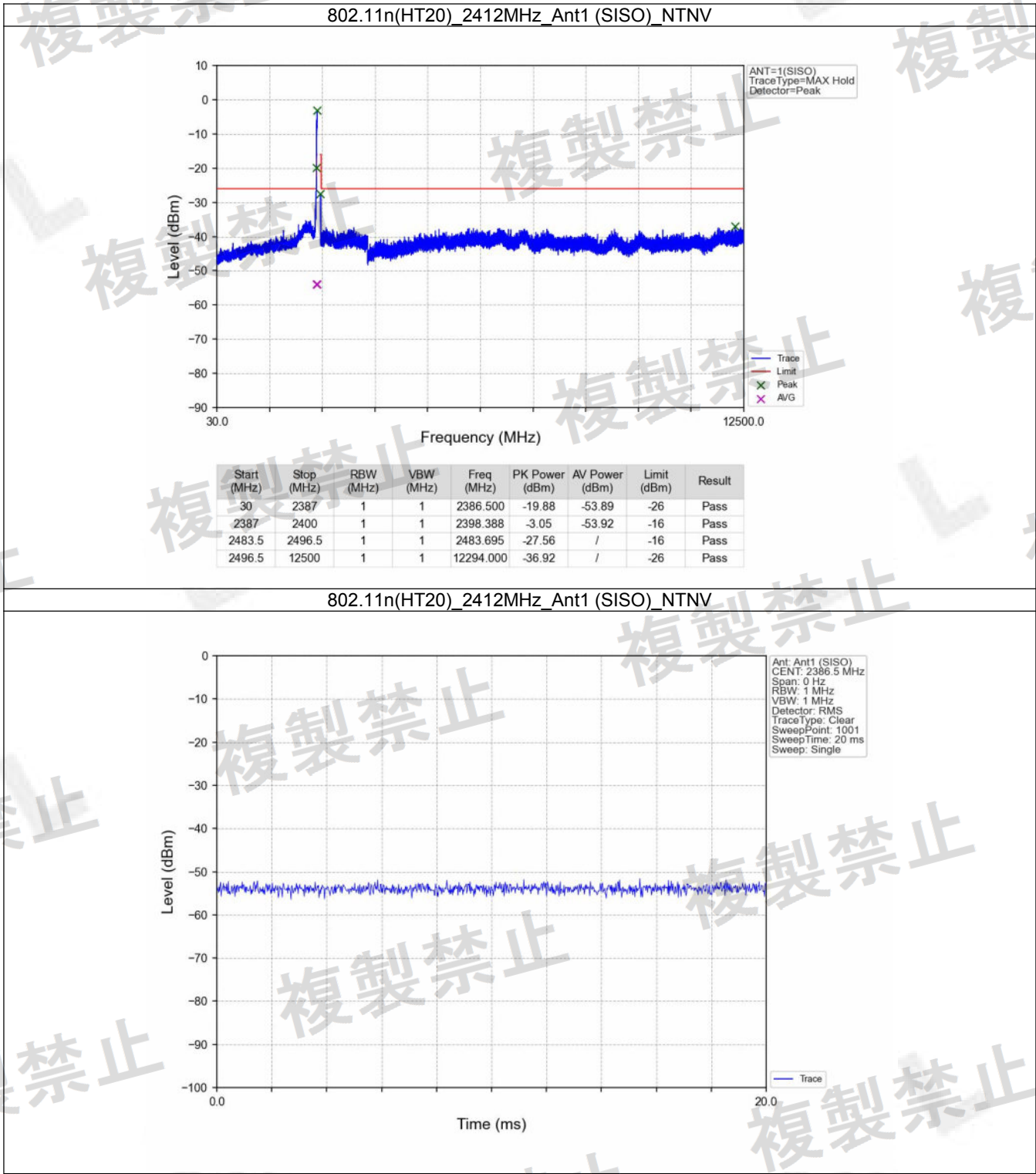
802.11g_2472MHz_Ant1 (SISO)_NTNV



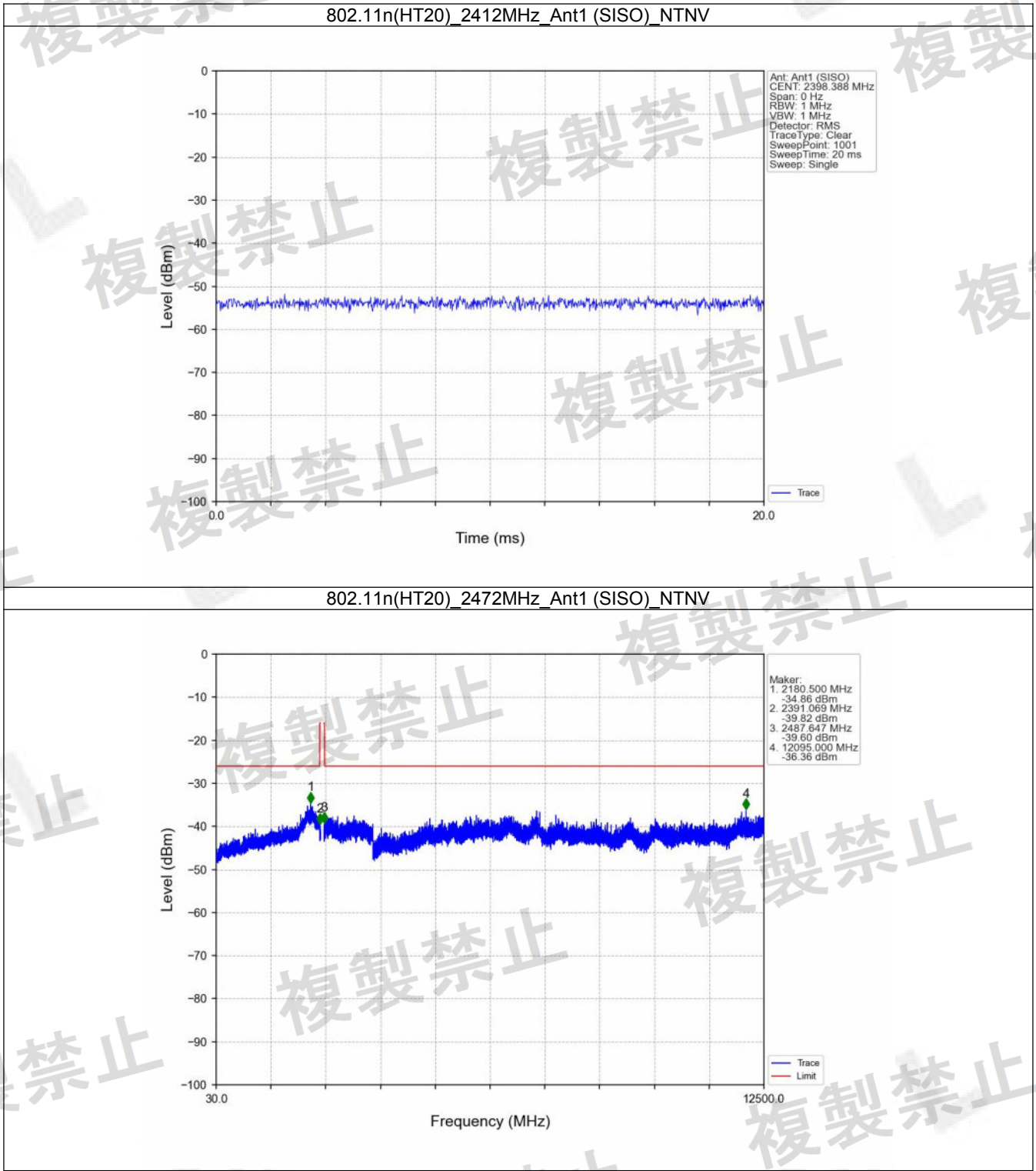
MIC: 219-259586



MIC: 219-259586

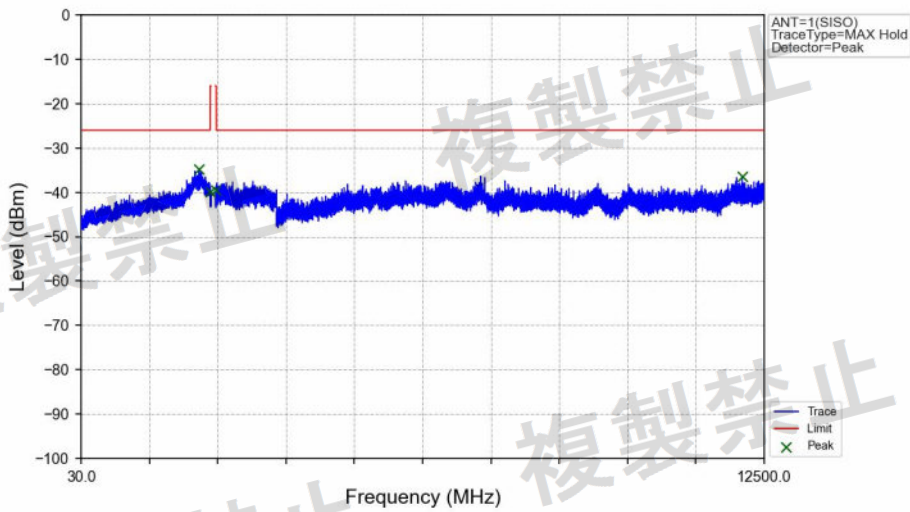


MIC: 219-259586



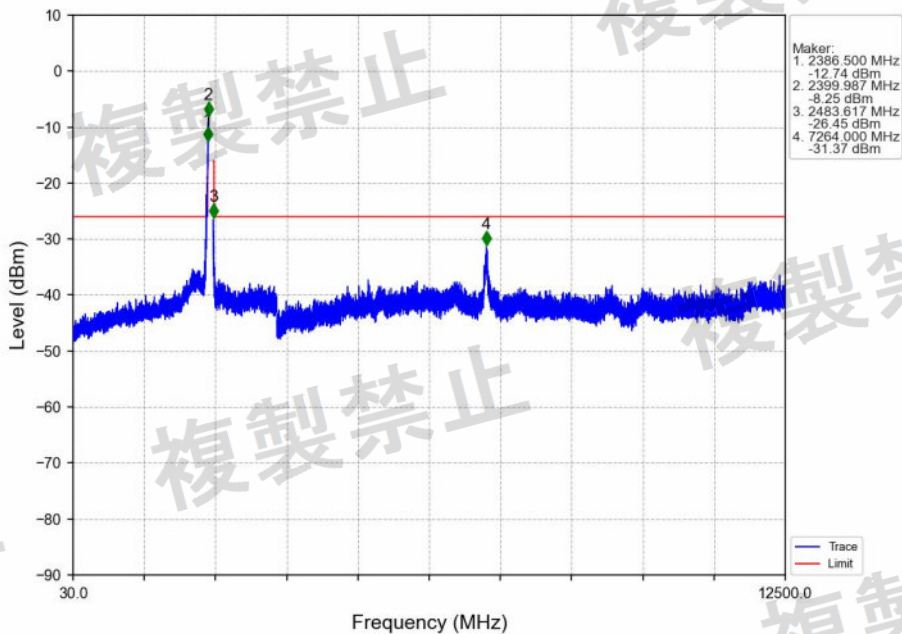
MIC: 219-259586

802.11n(HT20)_2472MHz_Ant1 (SISO)_NTNV

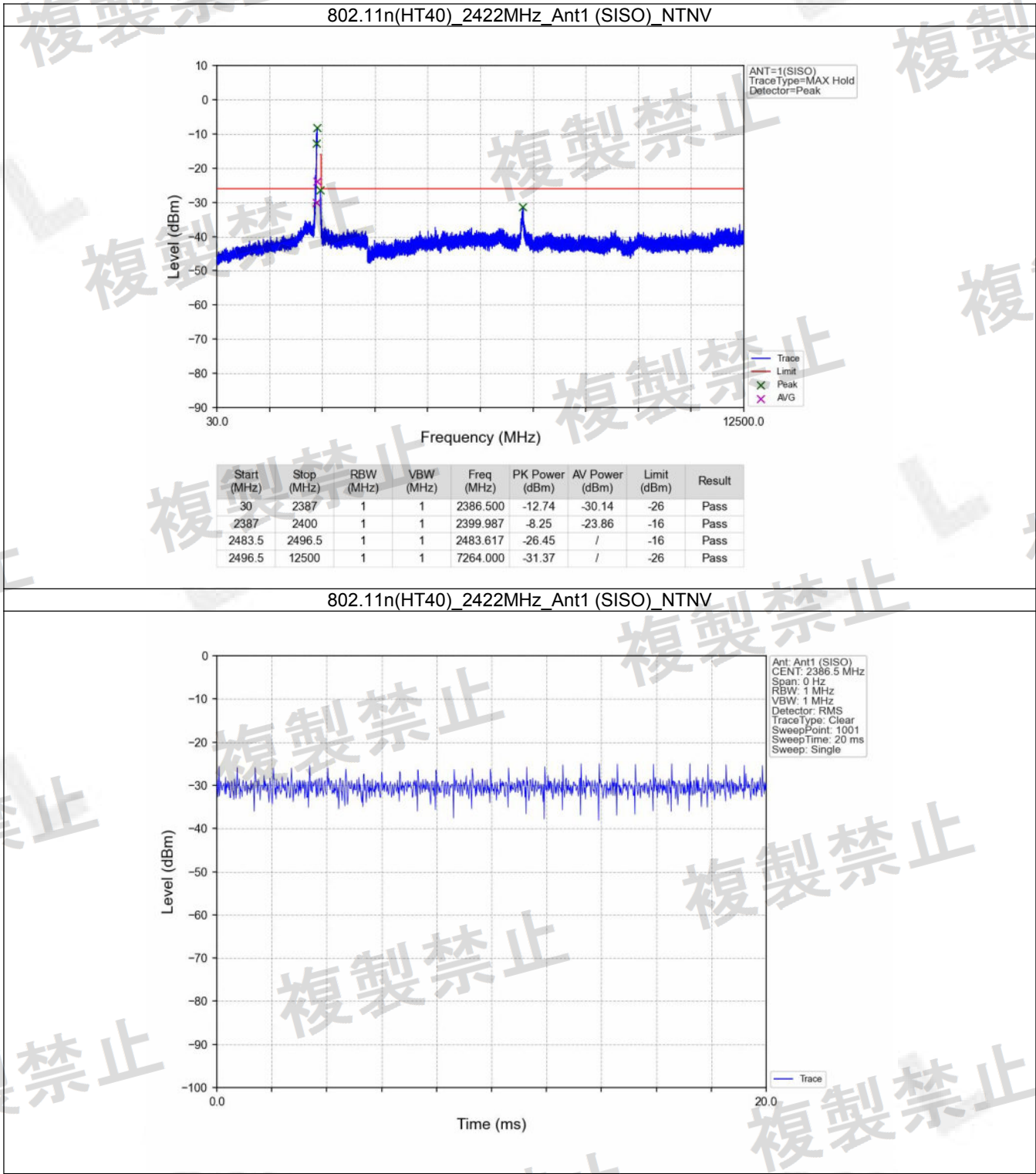


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	2387	1	1	2180.500	-34.86	/	-26	Pass
2387	2400	1	1	2391.069	-39.82	/	-16	Pass
2483.5	2496.5	1	1	2487.647	-39.60	/	-16	Pass
2496.5	12500	1	1	12095.000	-36.36	/	-26	Pass

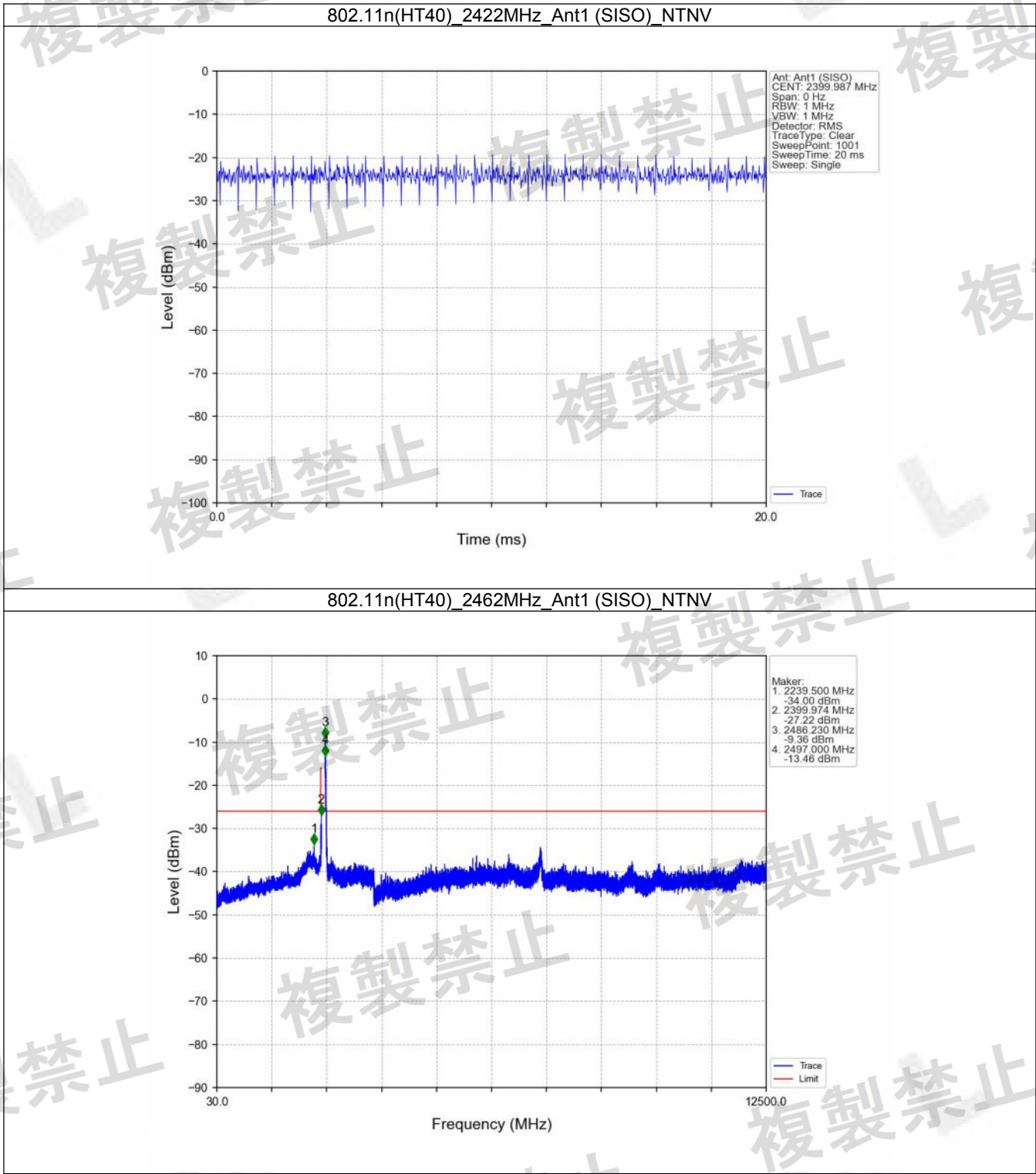
802.11n(HT40)_2422MHz_Ant1 (SISO)_NTNV



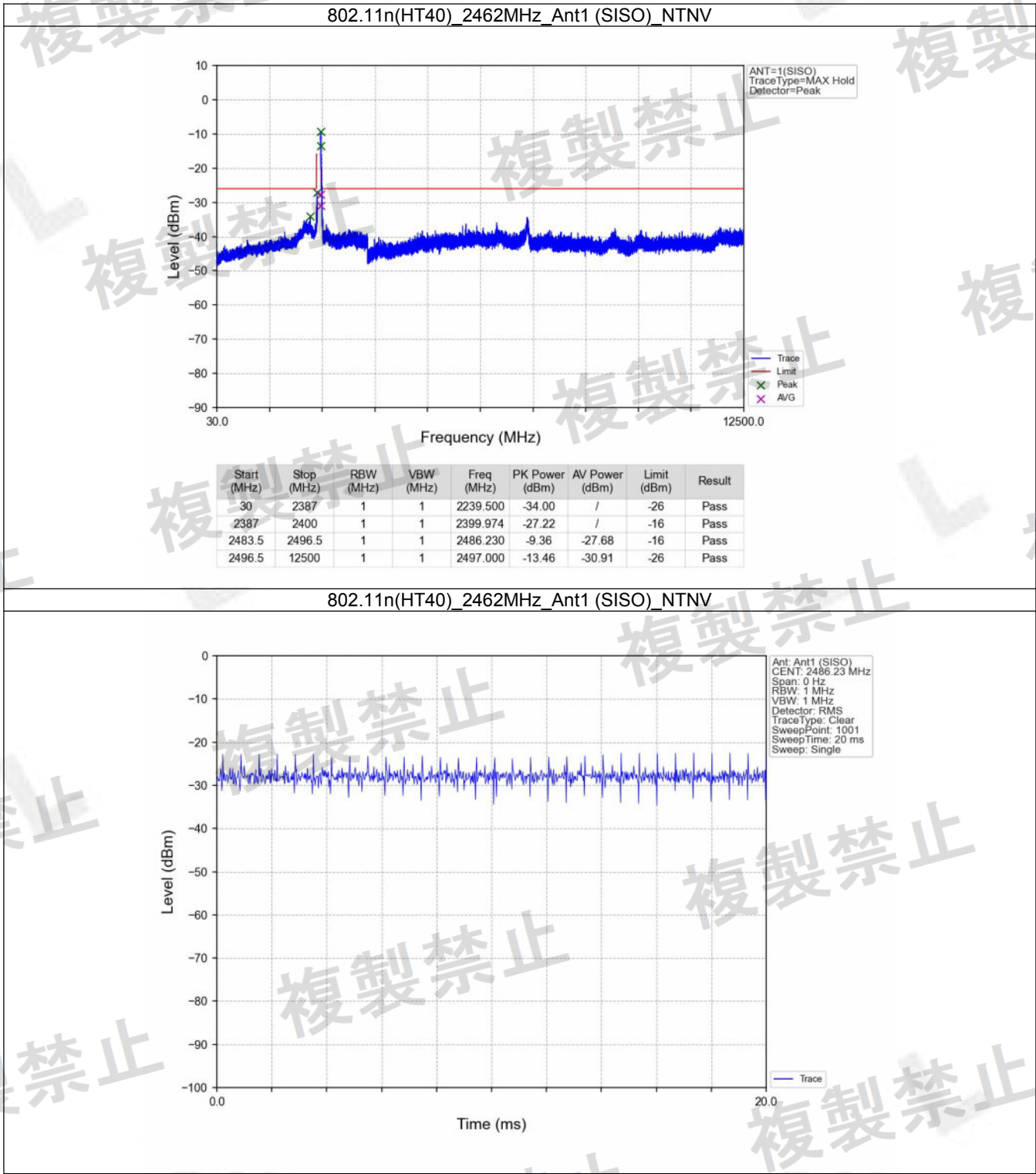
MIC: 219-259586



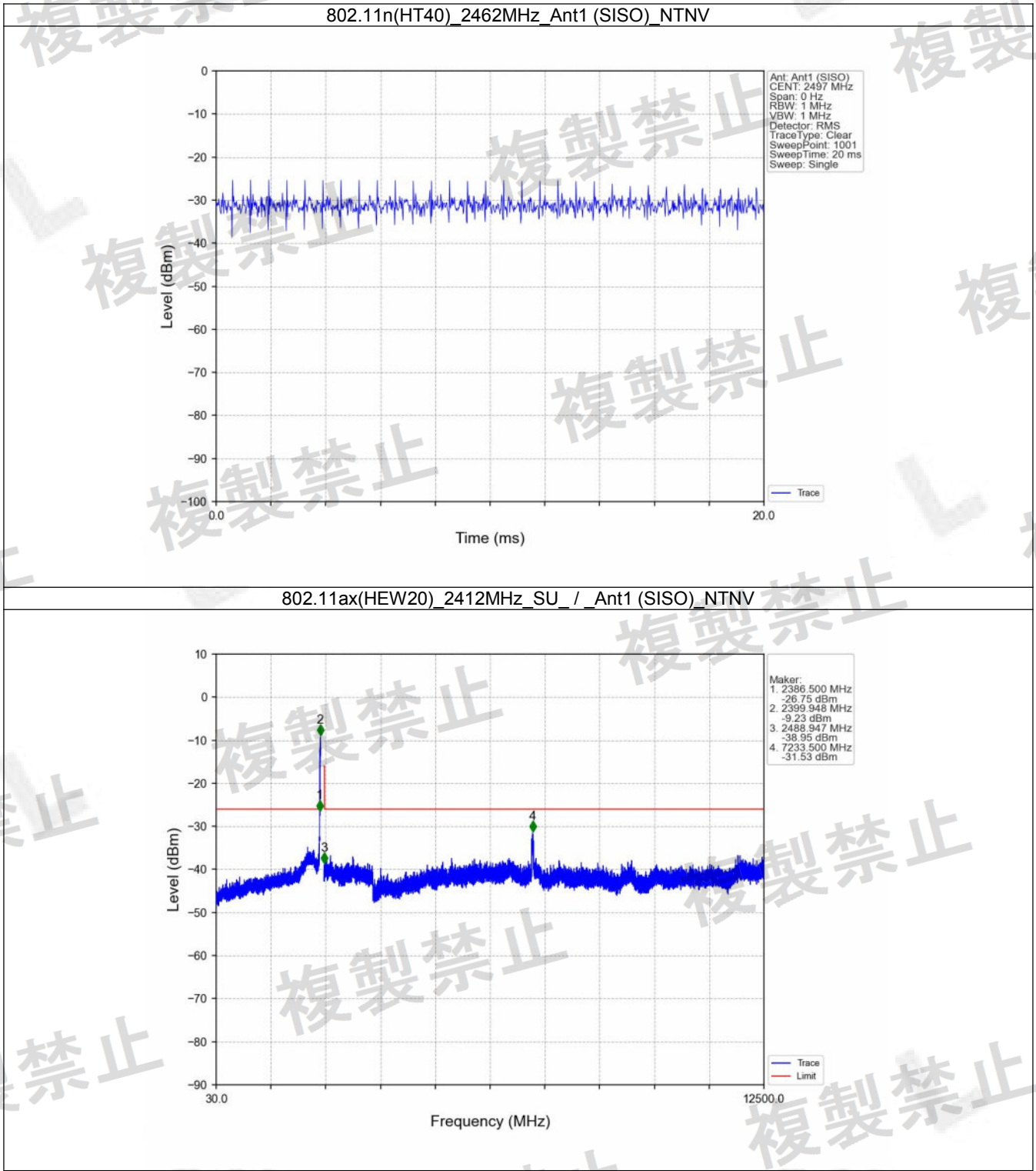
MIC: 219-259586



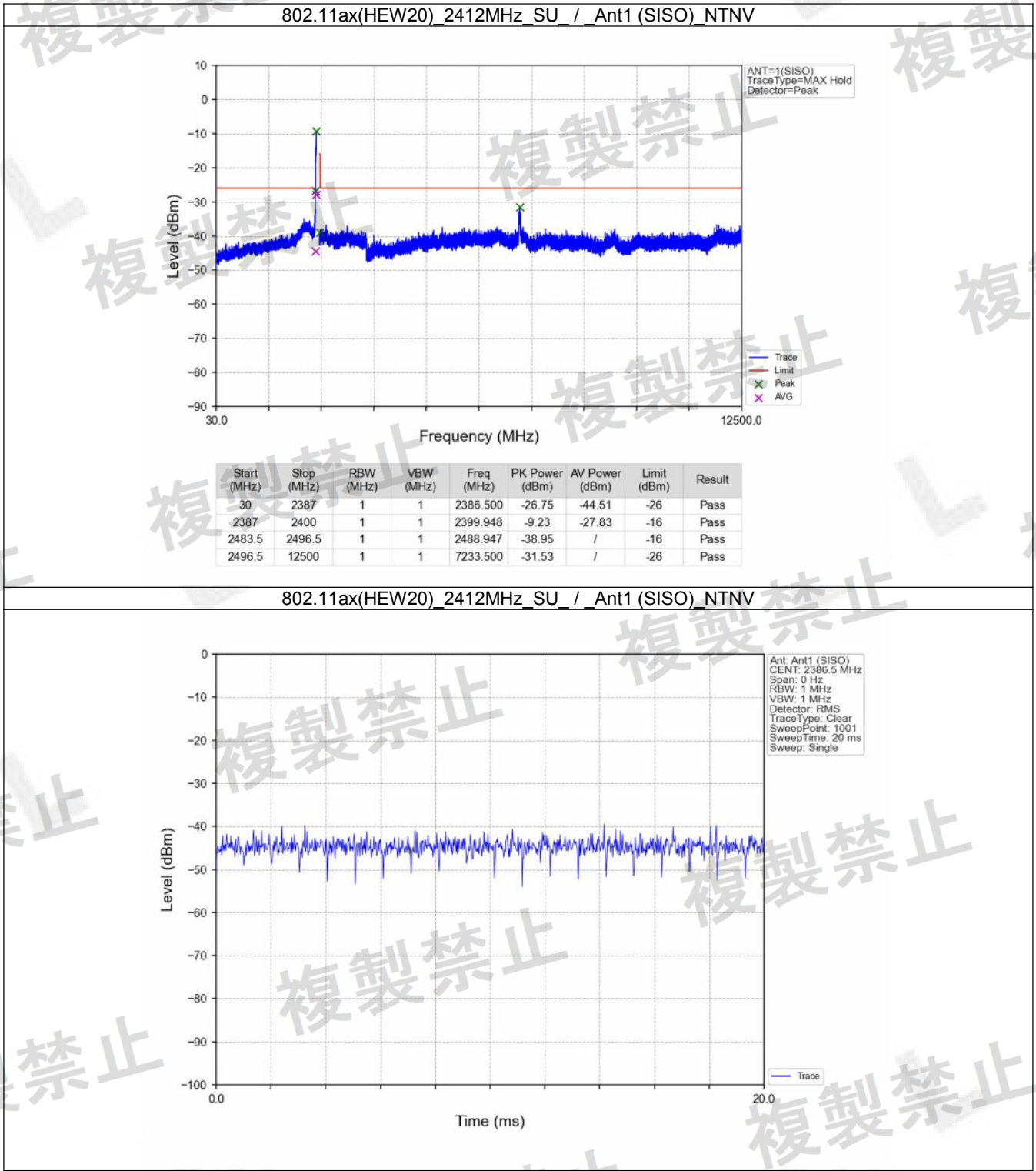
MIC: 219-259586



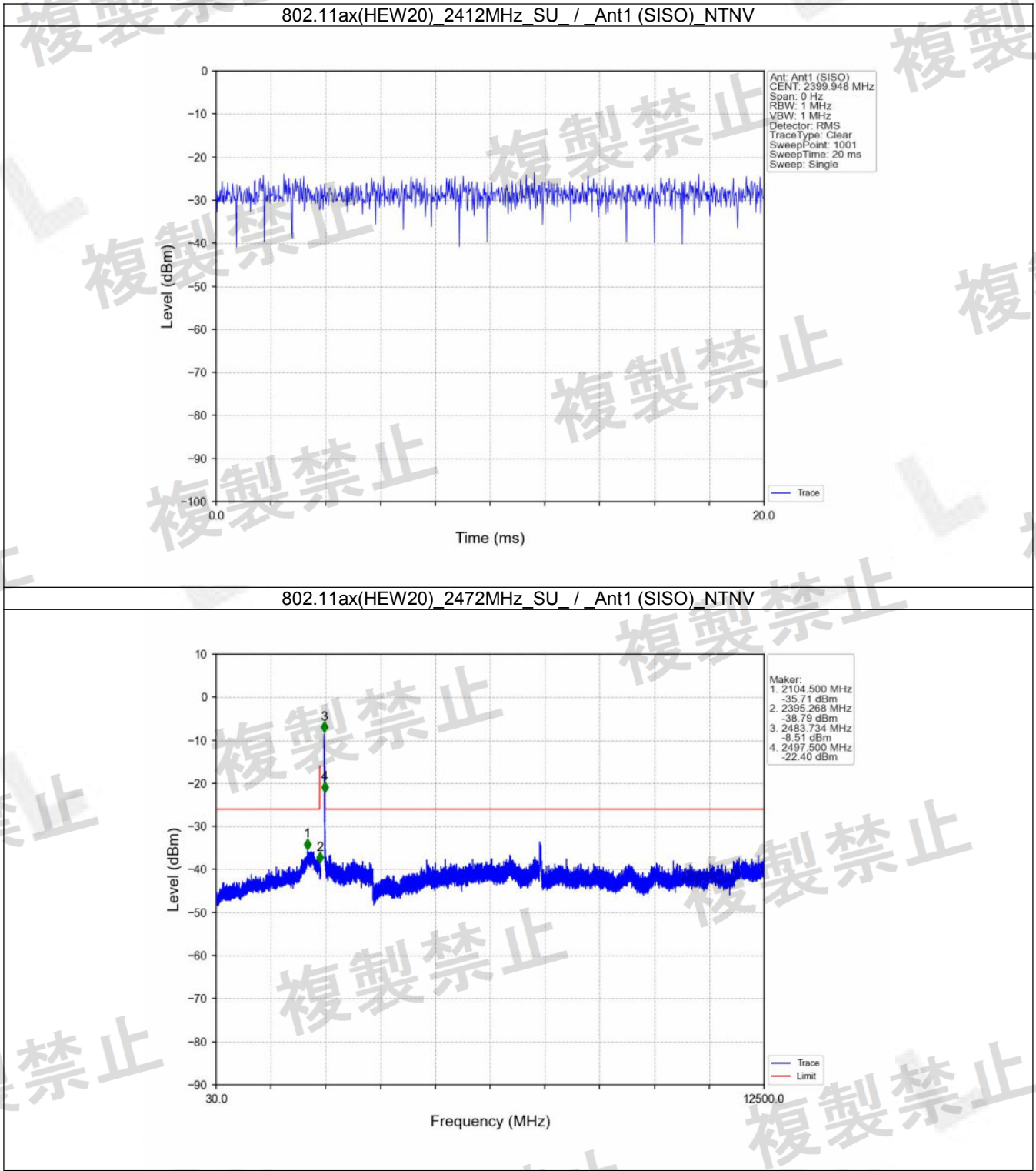
MIC: 219-259586



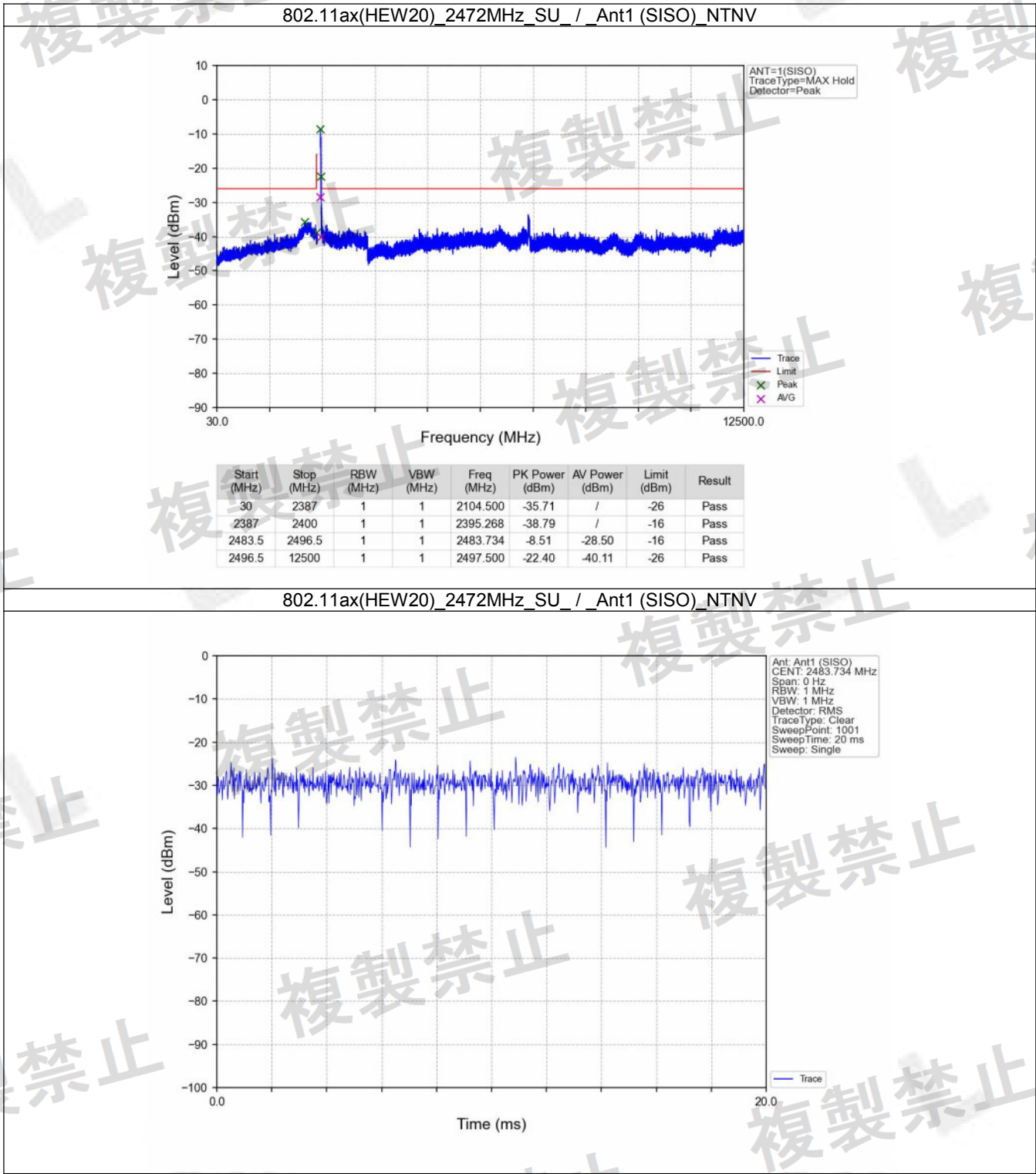
MIC: 219-259586



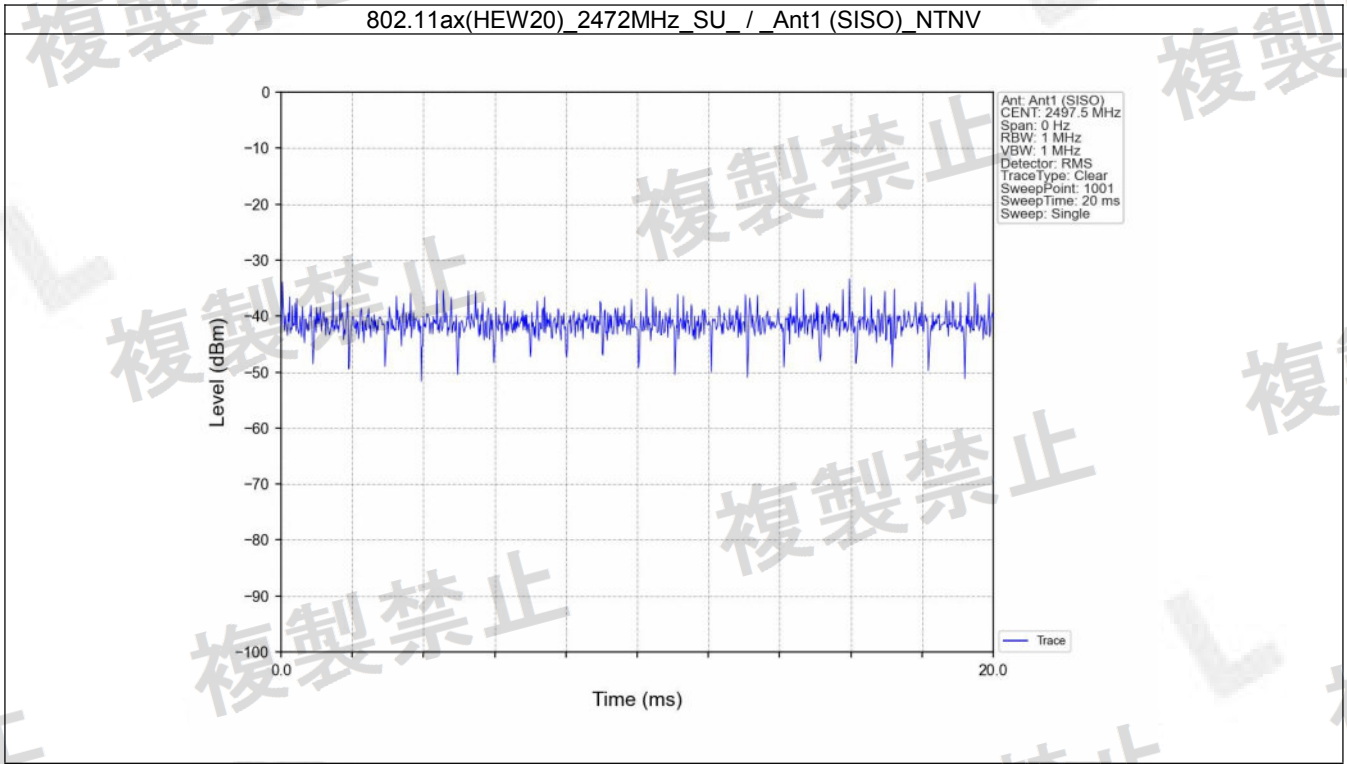
MIC: 219-259586



MIC: 219-259586

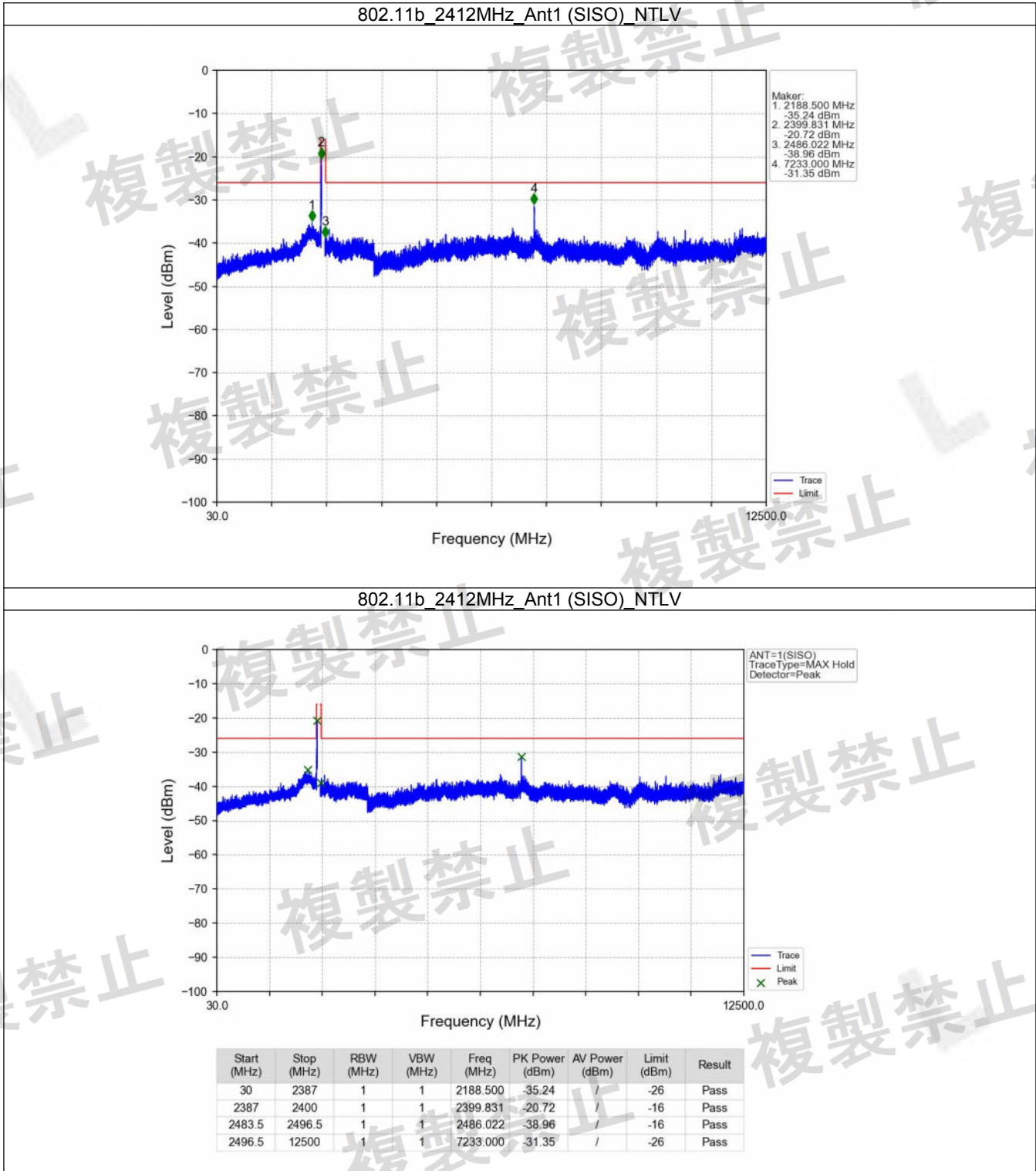


MIC: 219-259586



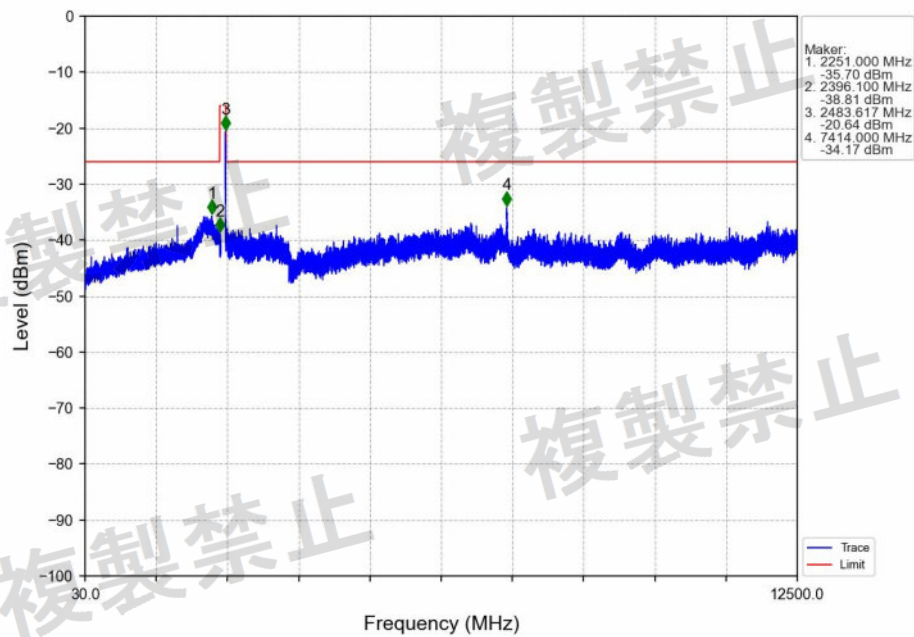
MIC: 219-259586

4.2.2 TxSe_NTLV

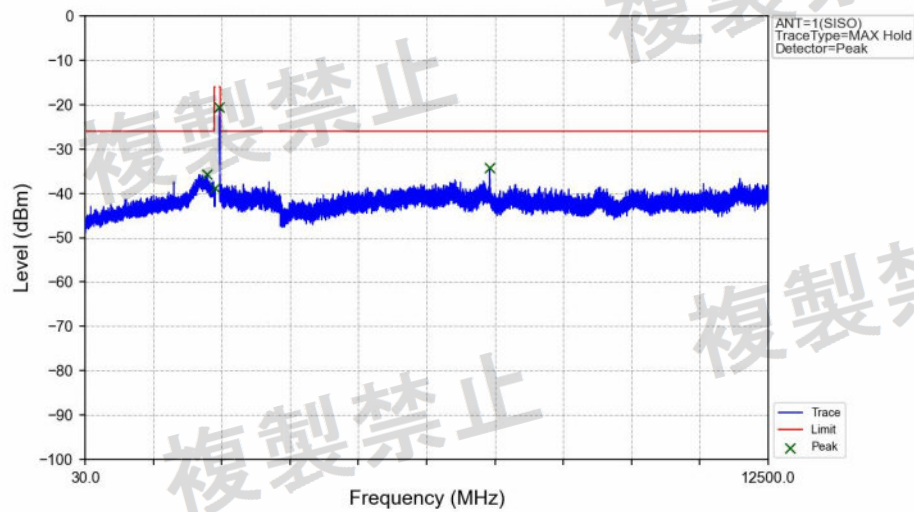


MIC: 219-259586

802.11b_2472MHz_Ant1 (SISO)_NTLV

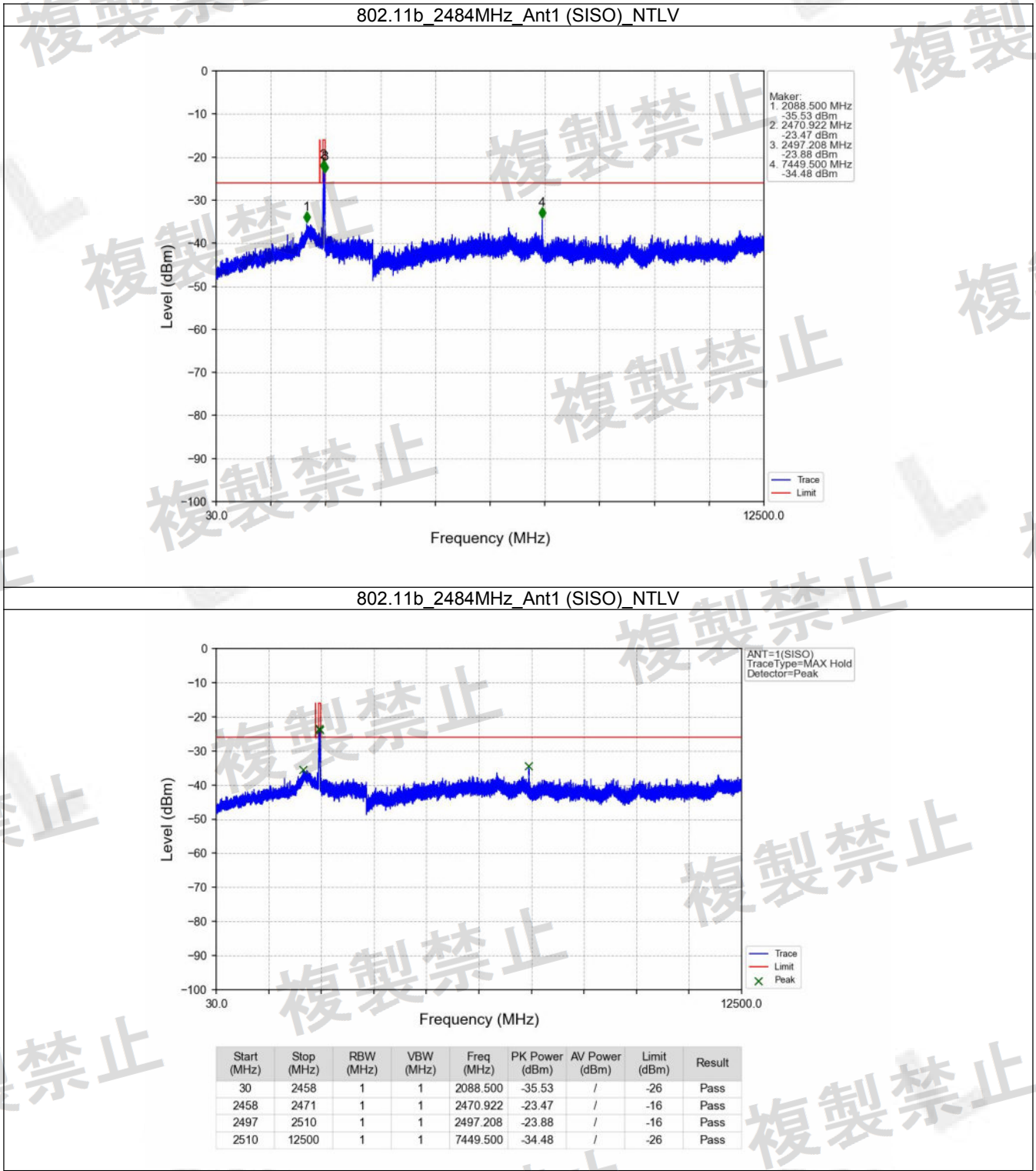


802.11b_2472MHz_Ant1 (SISO)_NTLV

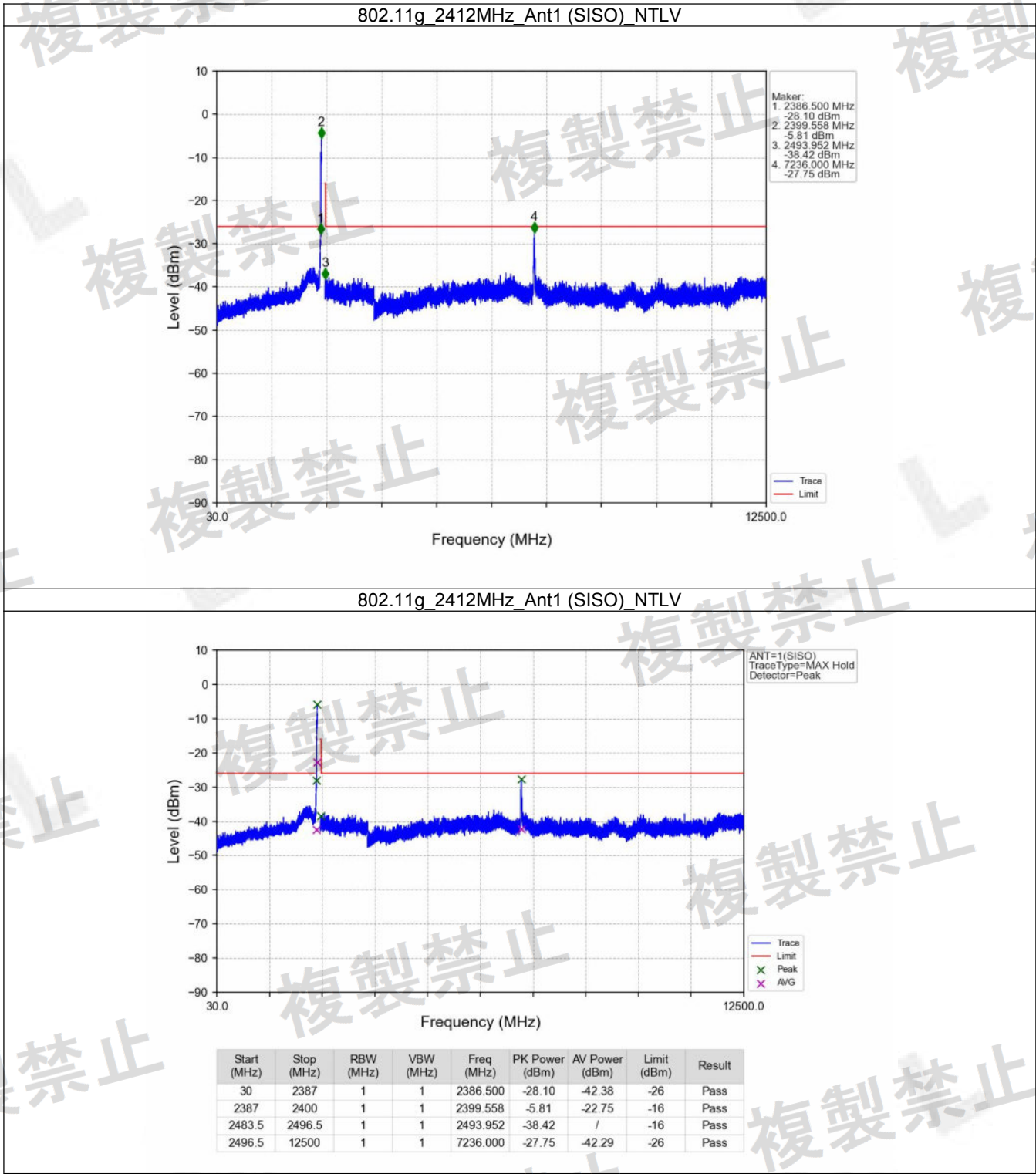


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	2387	1	1	2251.000	-35.70	/	-26	Pass
2387	2400	1	1	2396.100	-38.81	/	-16	Pass
2483.5	2496.5	1	1	2483.617	-20.64	/	-16	Pass
2496.5	12500	1	1	7414.000	-34.17	/	-26	Pass

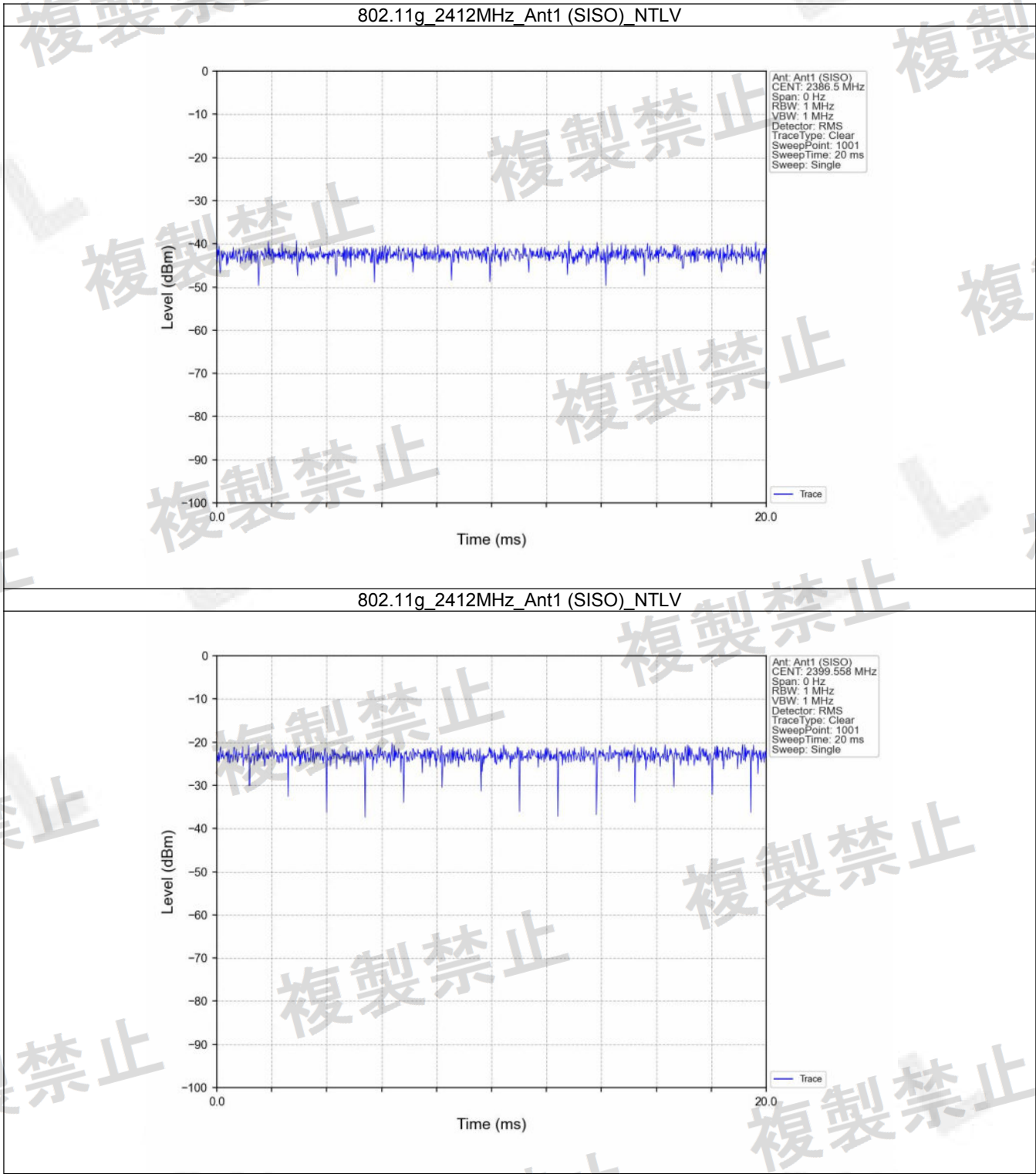
MIC: 219-259586



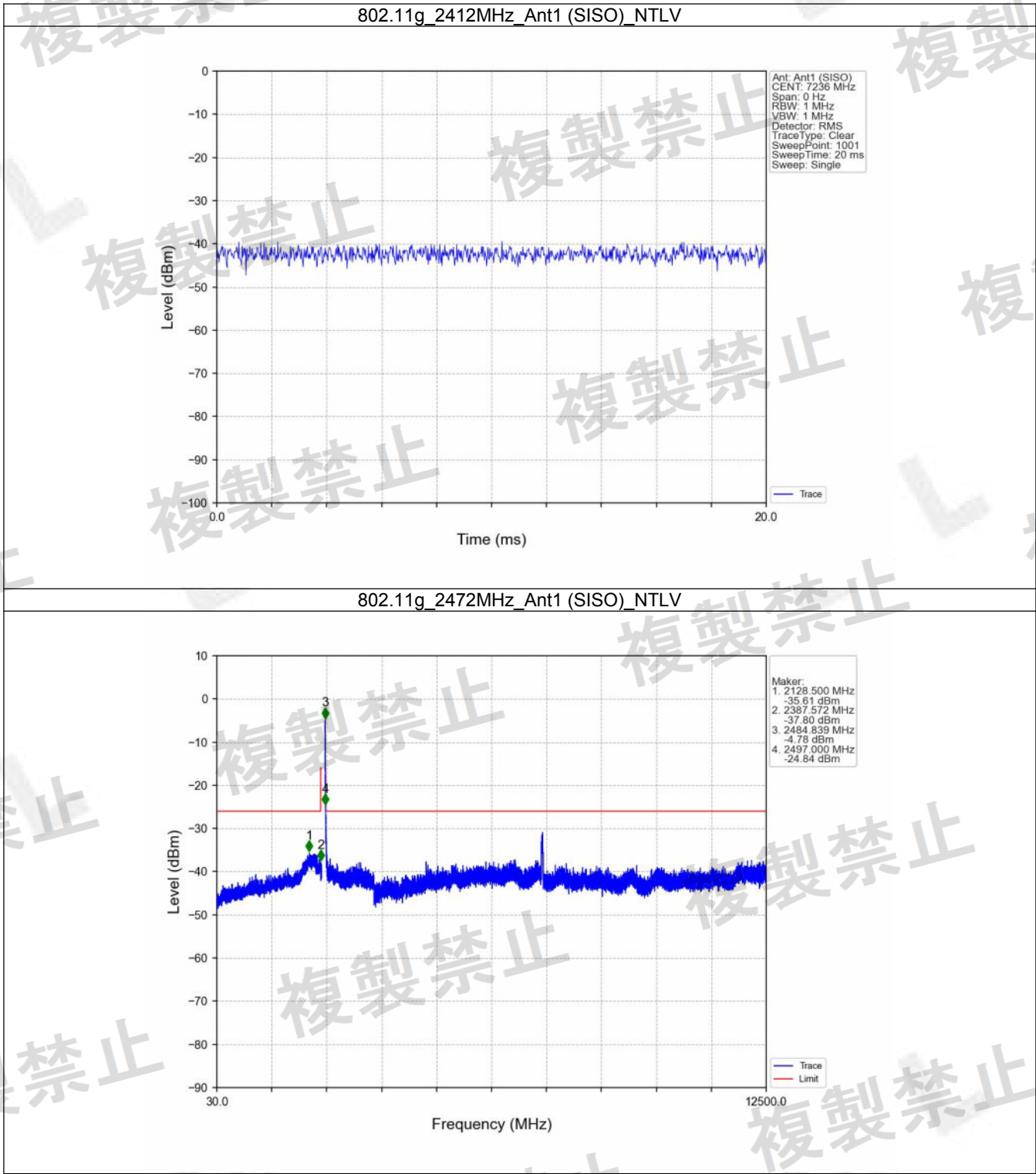
MIC: 219-259586



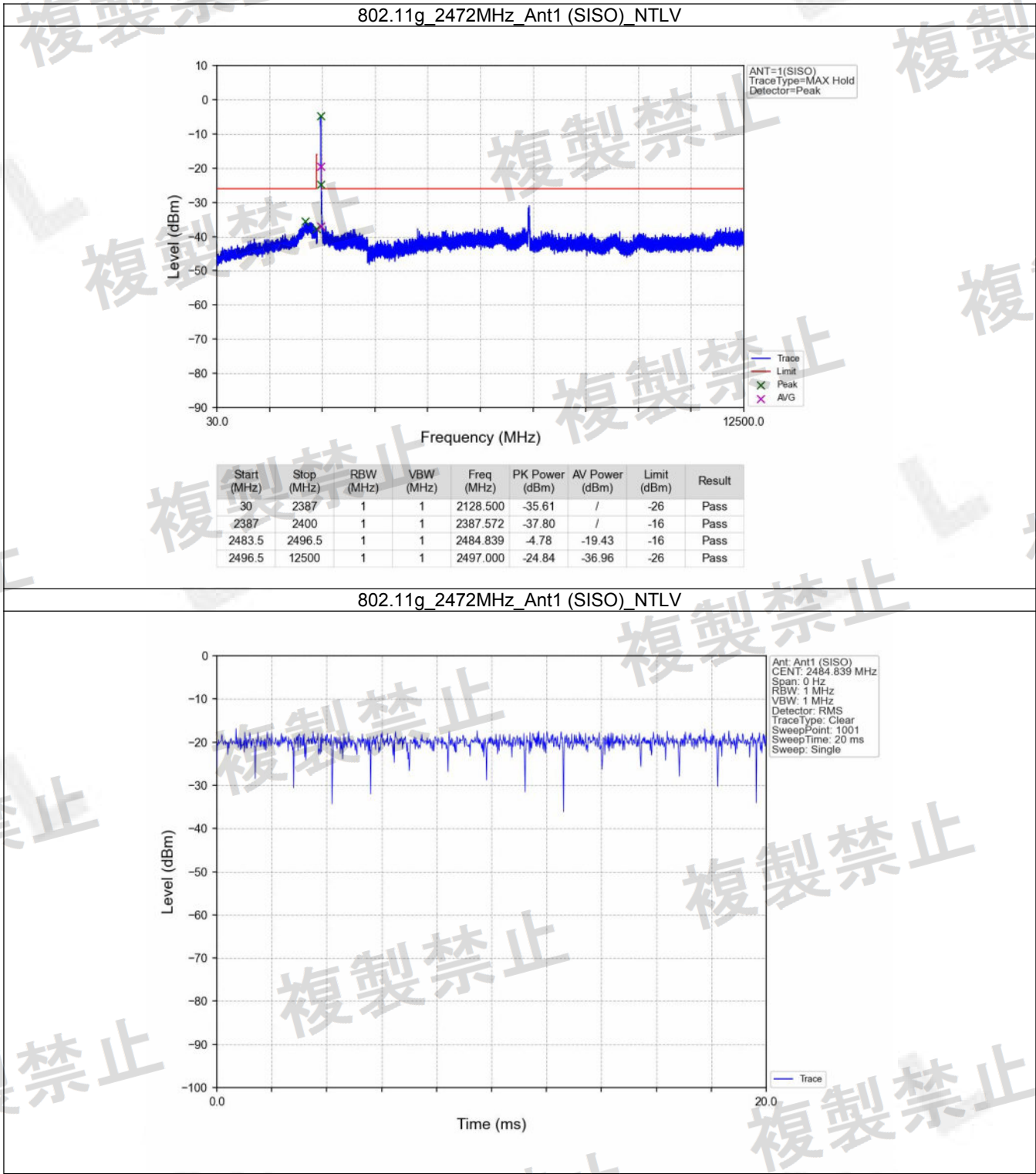
MIC: 219-259586



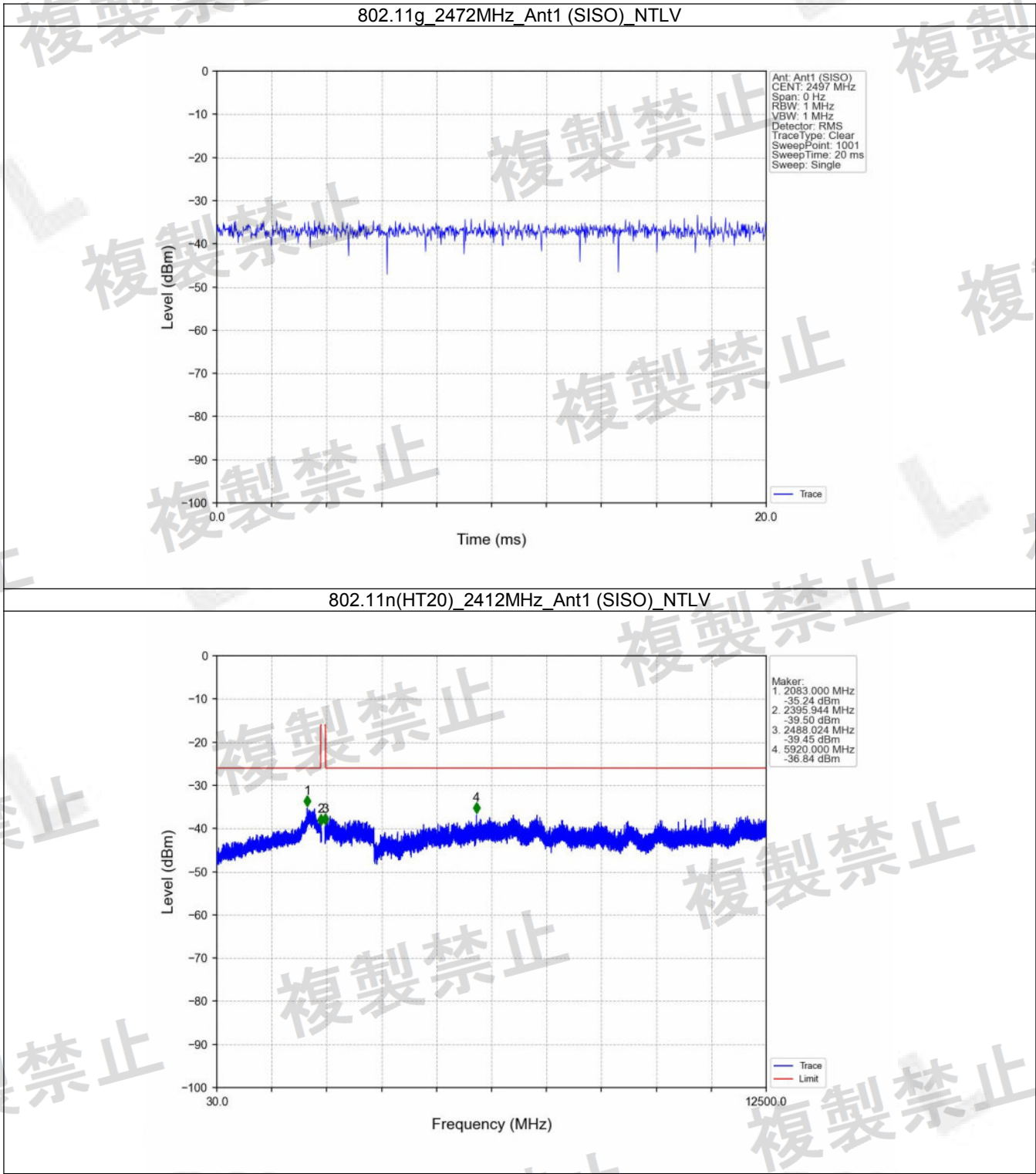
MIC: 219-259586



MIC: 219-259586

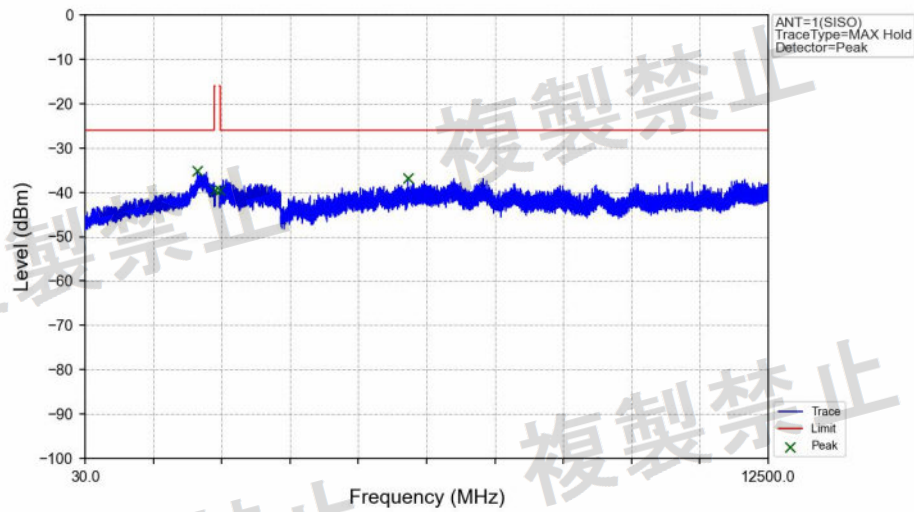


MIC: 219-259586



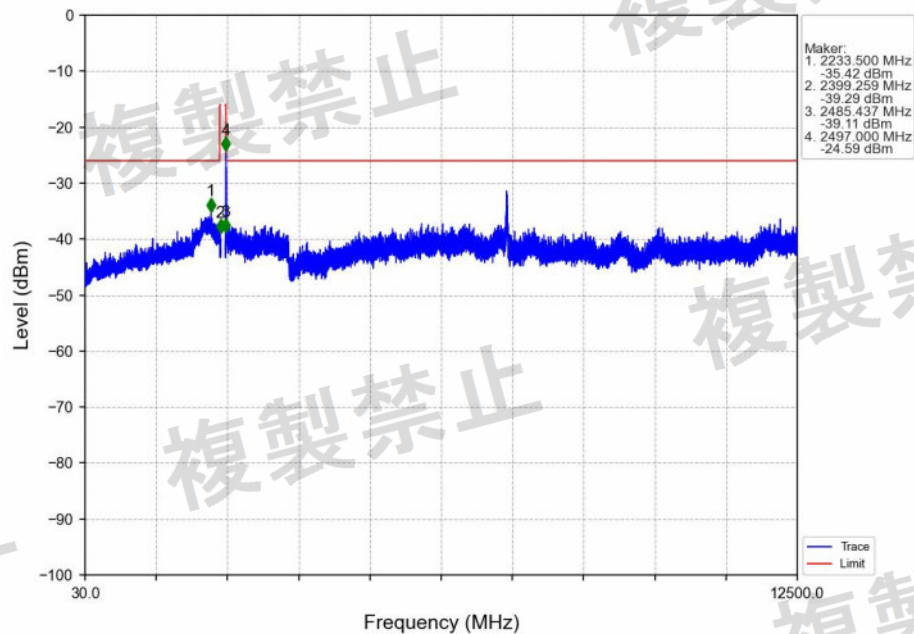
MIC: 219-259586

802.11n(HT20)_2412MHz_Ant1 (SISO)_NTLV

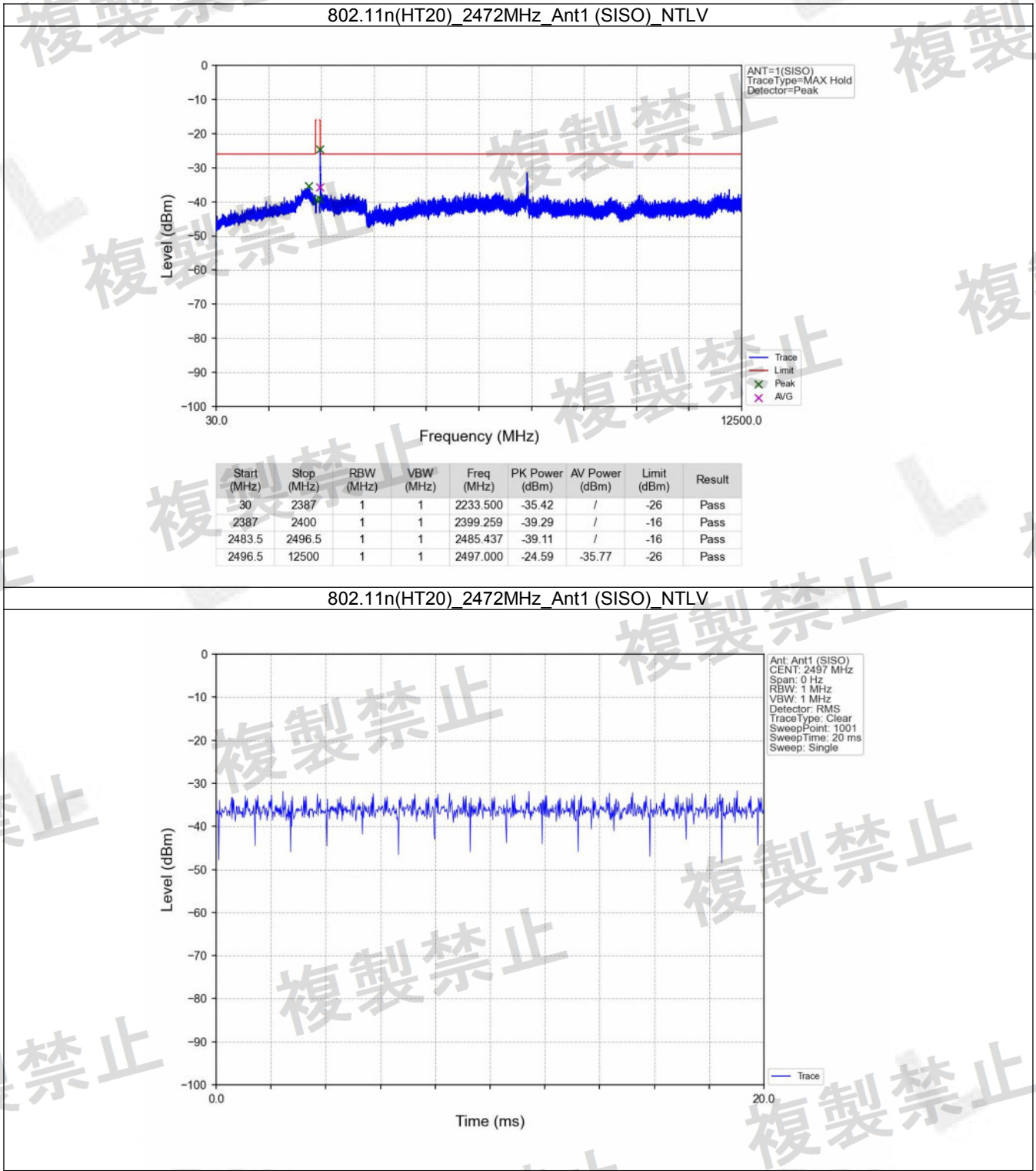


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	2387	1	1	2083.000	-35.24	/	-26	Pass
2387	2400	1	1	2395.944	-39.50	/	-16	Pass
2483.5	2496.5	1	1	2488.024	-39.45	/	-16	Pass
2496.5	12500	1	1	5920.000	-36.84	/	-26	Pass

802.11n(HT20)_2472MHz_Ant1 (SISO)_NTLV

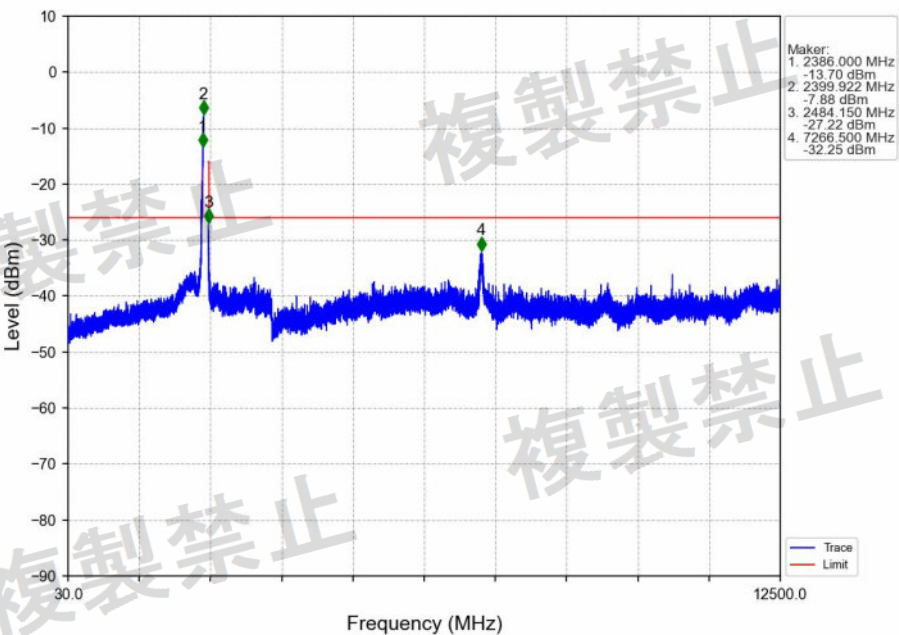


MIC: 219-259586

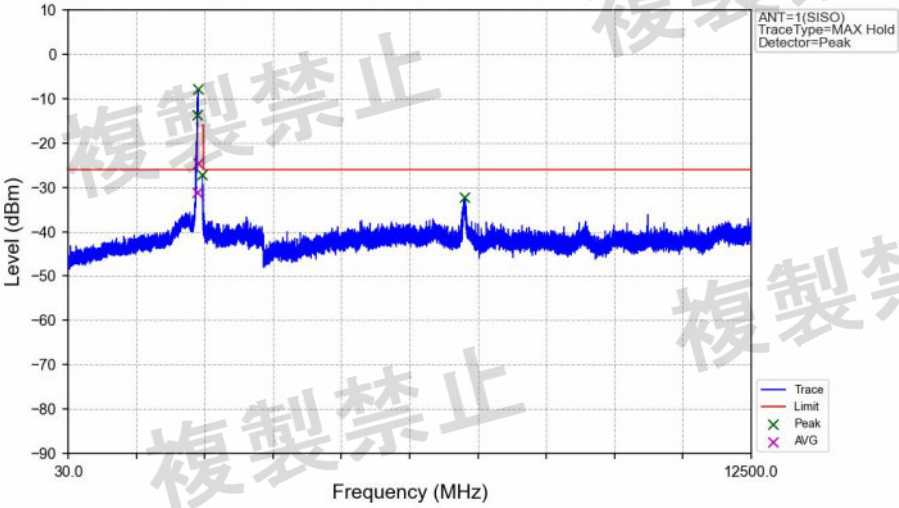


MIC: 219-259586

802.11n(HT40)_2422MHz_Ant1 (SISO)_NTLV

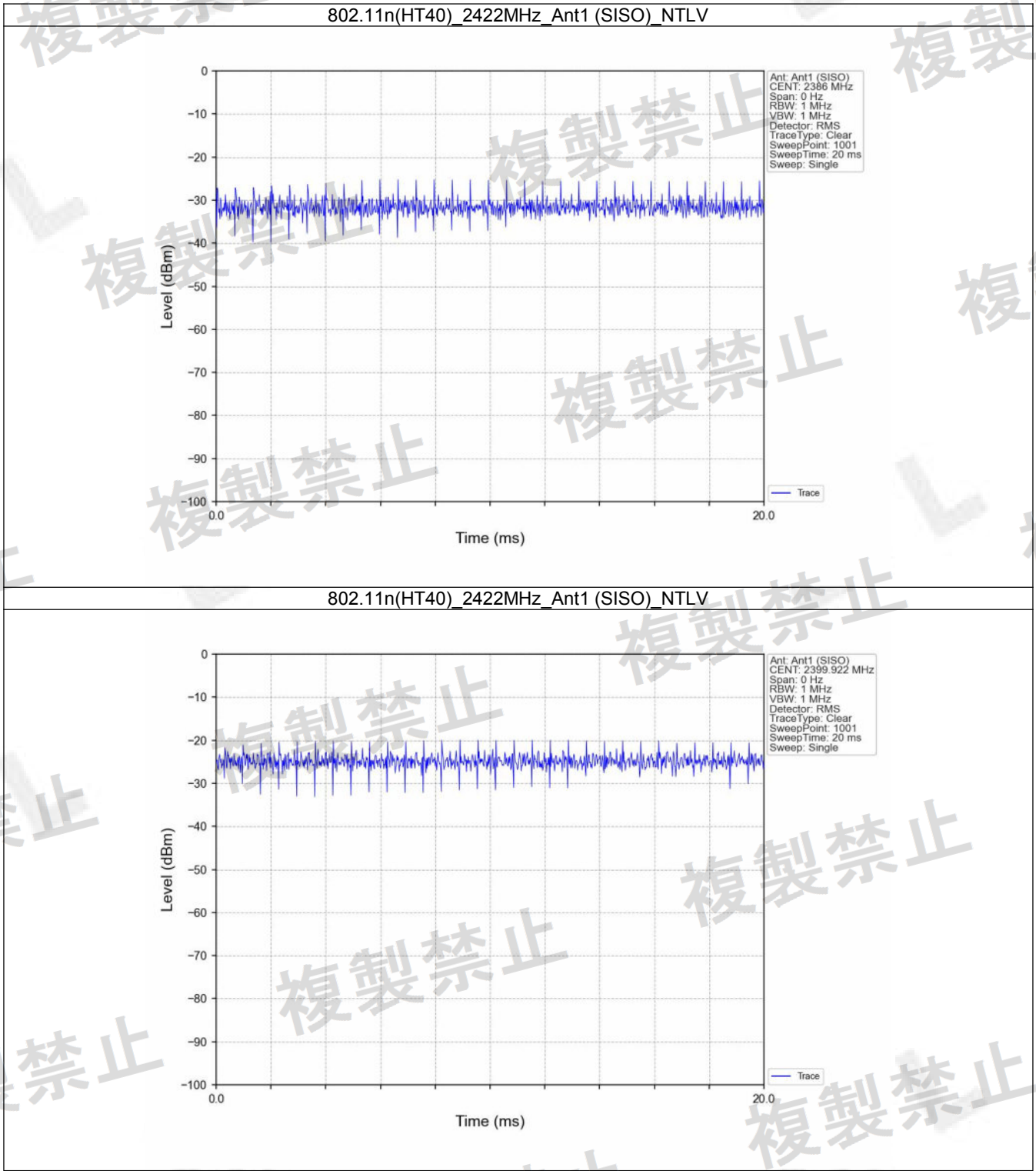


802.11n(HT40)_2422MHz_Ant1 (SISO)_NTLV

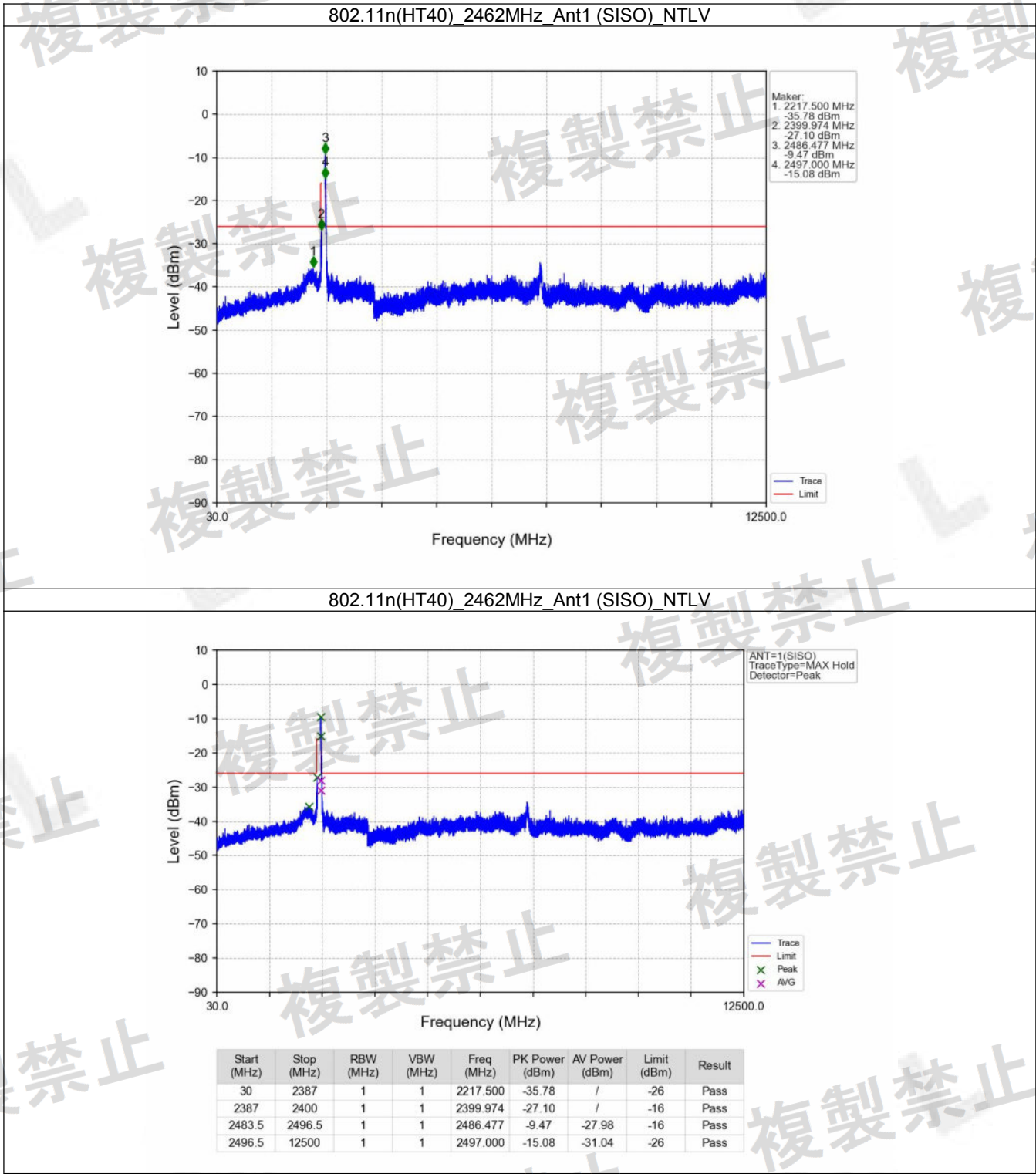


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	2387	1	1	2386.000	-13.70	-31.14	-26	Pass
2387	2400	1	1	2399.922	-7.88	-24.60	-16	Pass
2483.5	2496.5	1	1	2484.150	-27.22	/	-16	Pass
2496.5	12500	1	1	7266.500	-32.25	/	-26	Pass

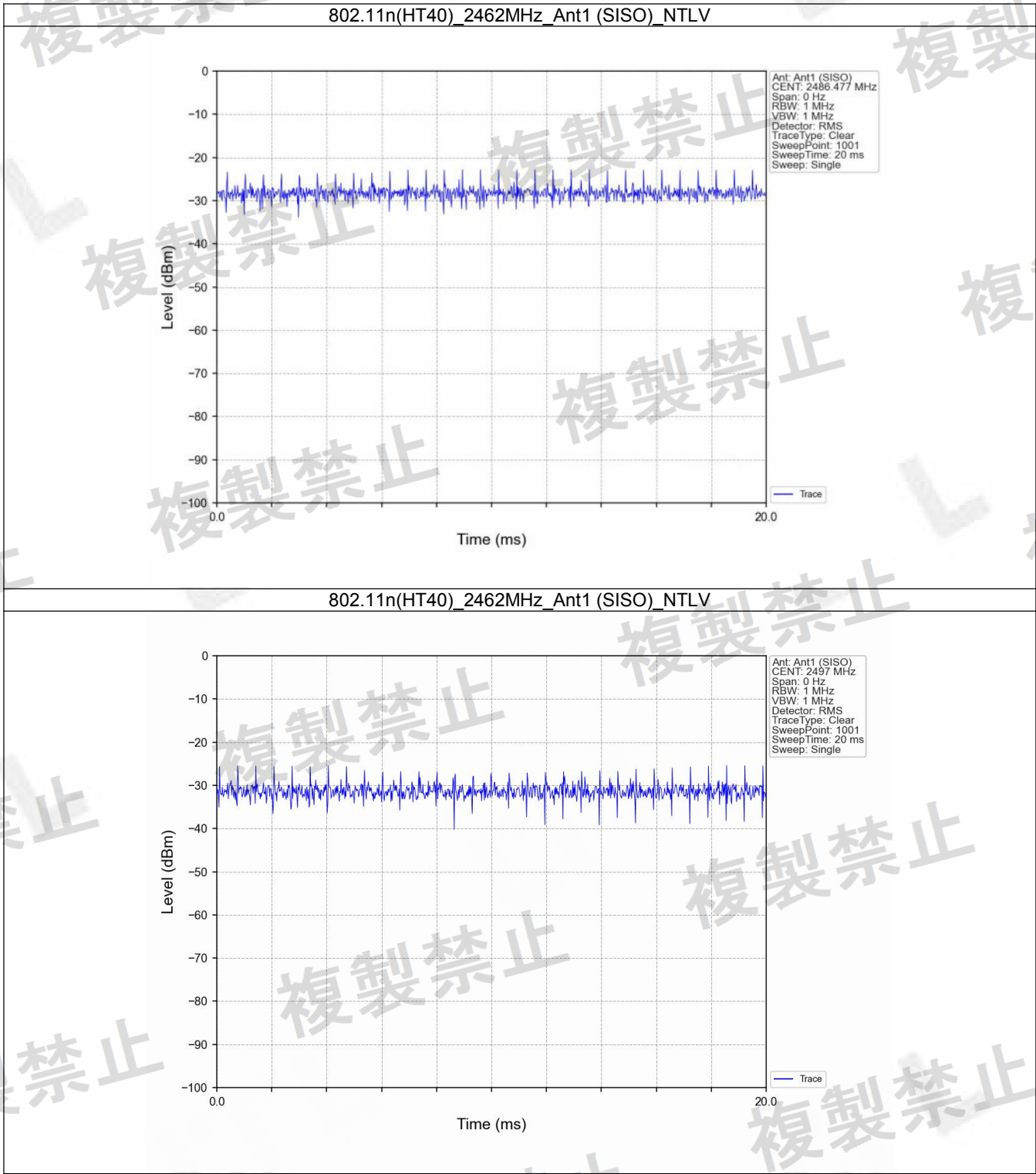
MIC: 219-259586



MIC: 219-259586

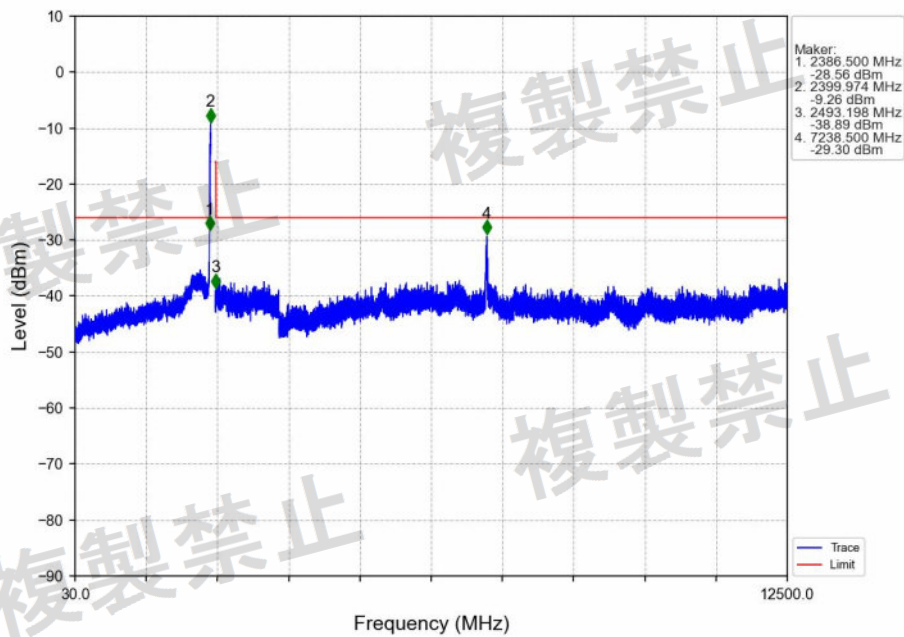


MIC: 219-259586

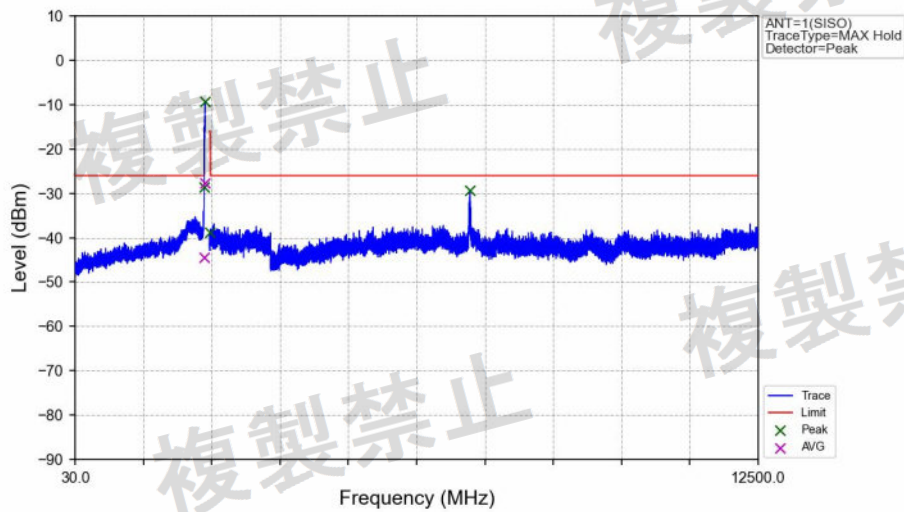


MIC: 219-259586

802.11ax(HEW20)_2412MHz_SU_/_Ant1 (SISO)_NTLV



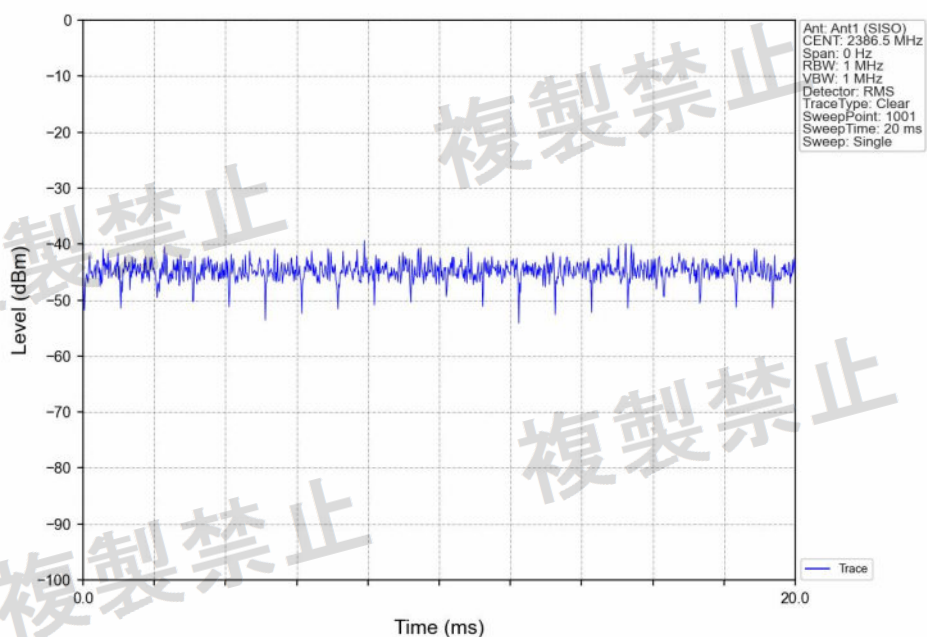
802.11ax(HEW20)_2412MHz_SU_/_Ant1 (SISO)_NTLV



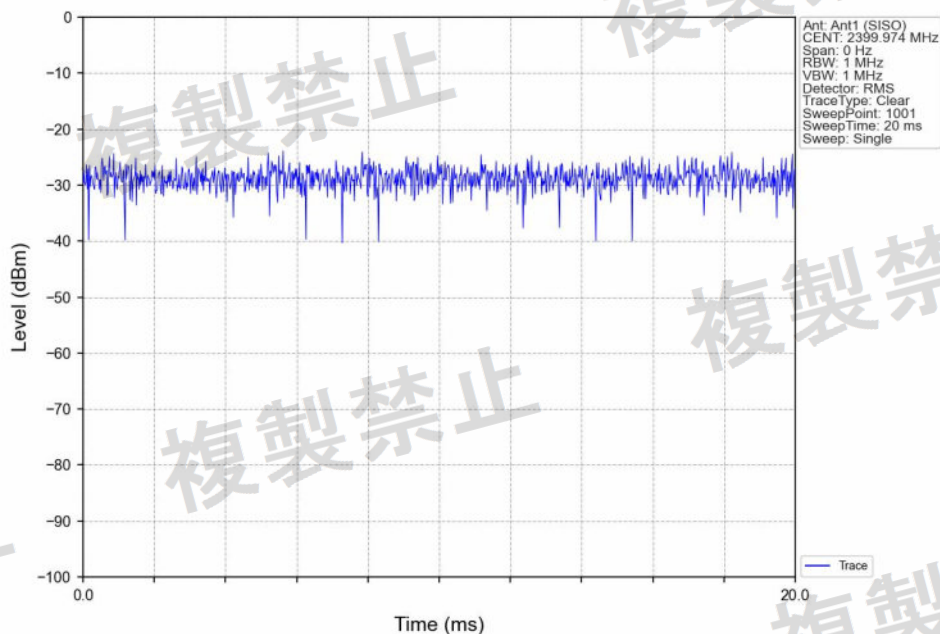
Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	2387	1	1	2386.500	-28.56	-44.53	-26	Pass
2387	2400	1	1	2399.974	-9.26	-27.71	-16	Pass
2483.5	2496.5	1	1	2493.198	-38.89	/	-16	Pass
2496.5	12500	1	1	7238.500	-29.30	/	-26	Pass

MIC: 219-259586

802.11ax(HEW20)_2412MHz_SU_/_Ant1 (SISO)_NTLV

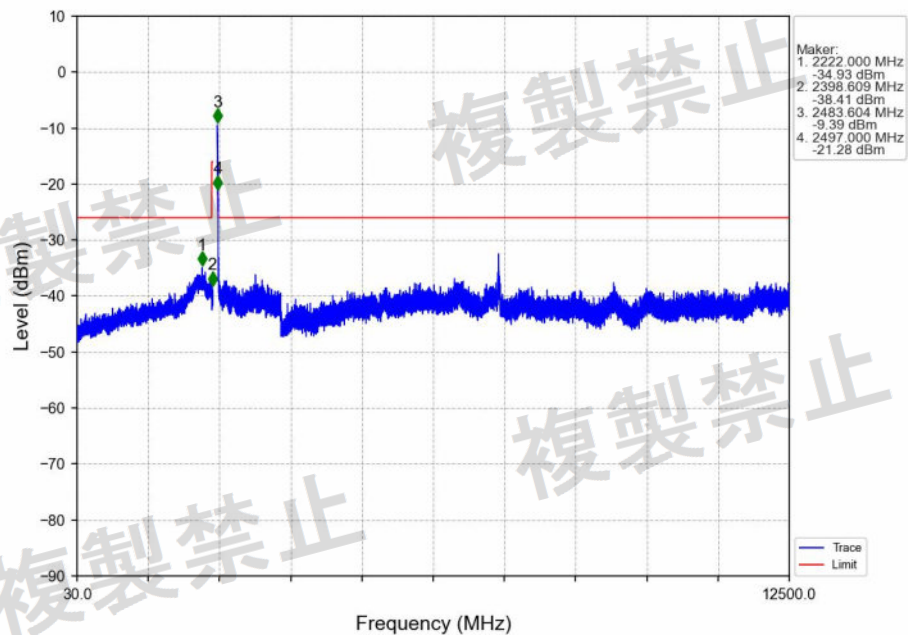


802.11ax(HEW20)_2412MHz_SU_/_Ant1 (SISO)_NTLV

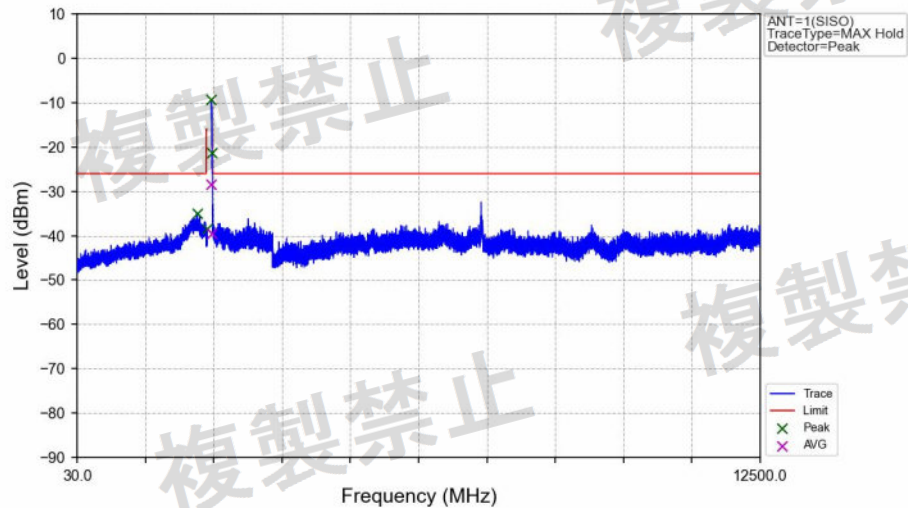


MIC: 219-259586

802.11ax(HEW20)_2472MHz_SU_/_Ant1 (SISO)_NTLV



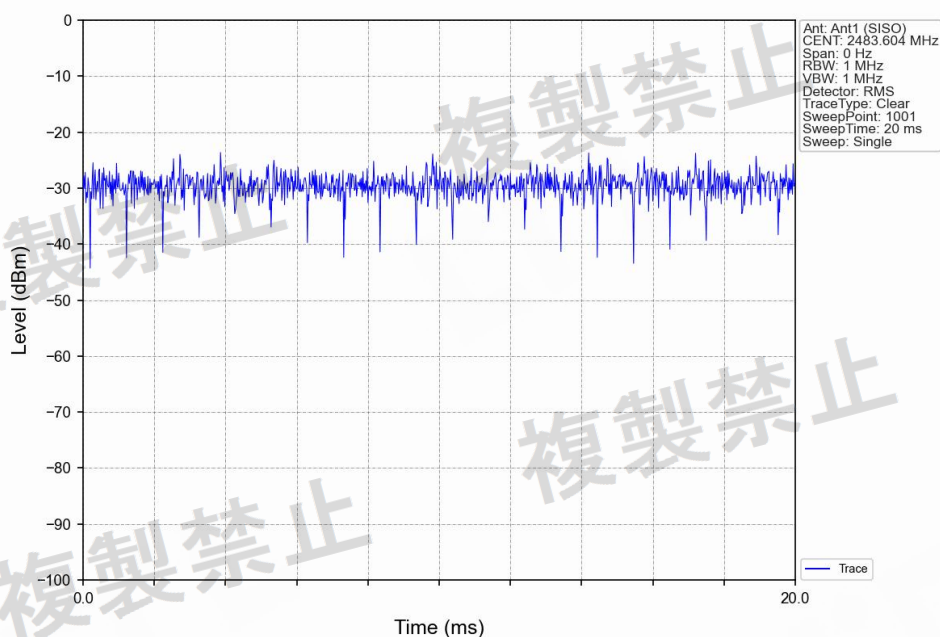
802.11ax(HEW20)_2472MHz_SU_/_Ant1 (SISO)_NTLV



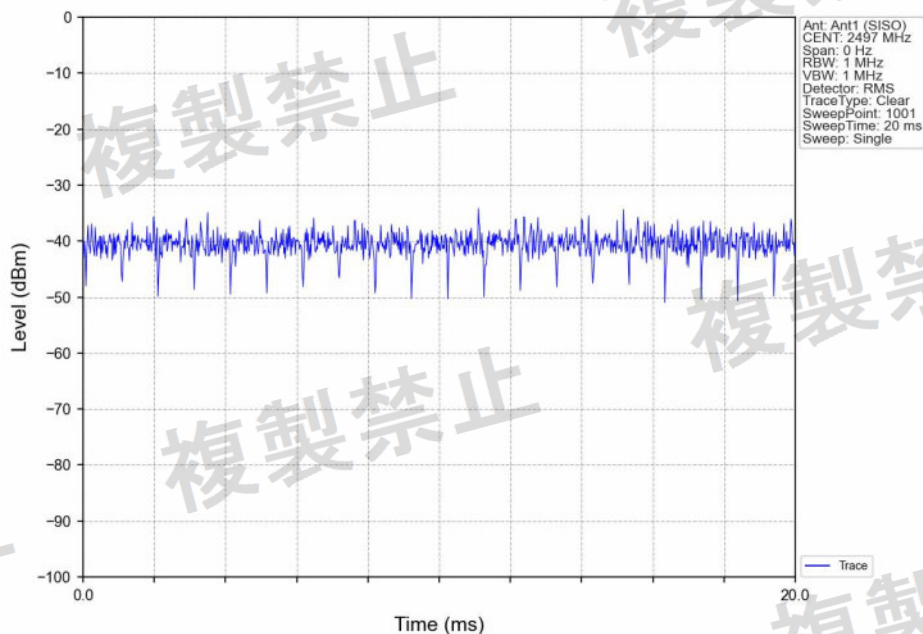
Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	2387	1	1	2222.000	-34.93	/	-26	Pass
2387	2400	1	1	2398.609	-38.41	/	-16	Pass
2483.5	2496.5	1	1	2483.604	-9.39	-28.45	-16	Pass
2496.5	12500	1	1	2497.000	-21.28	-39.53	-26	Pass

MIC: 219-259586

802.11ax(HEW20)_2472MHz_SU_/_Ant1 (SISO)_NTLV

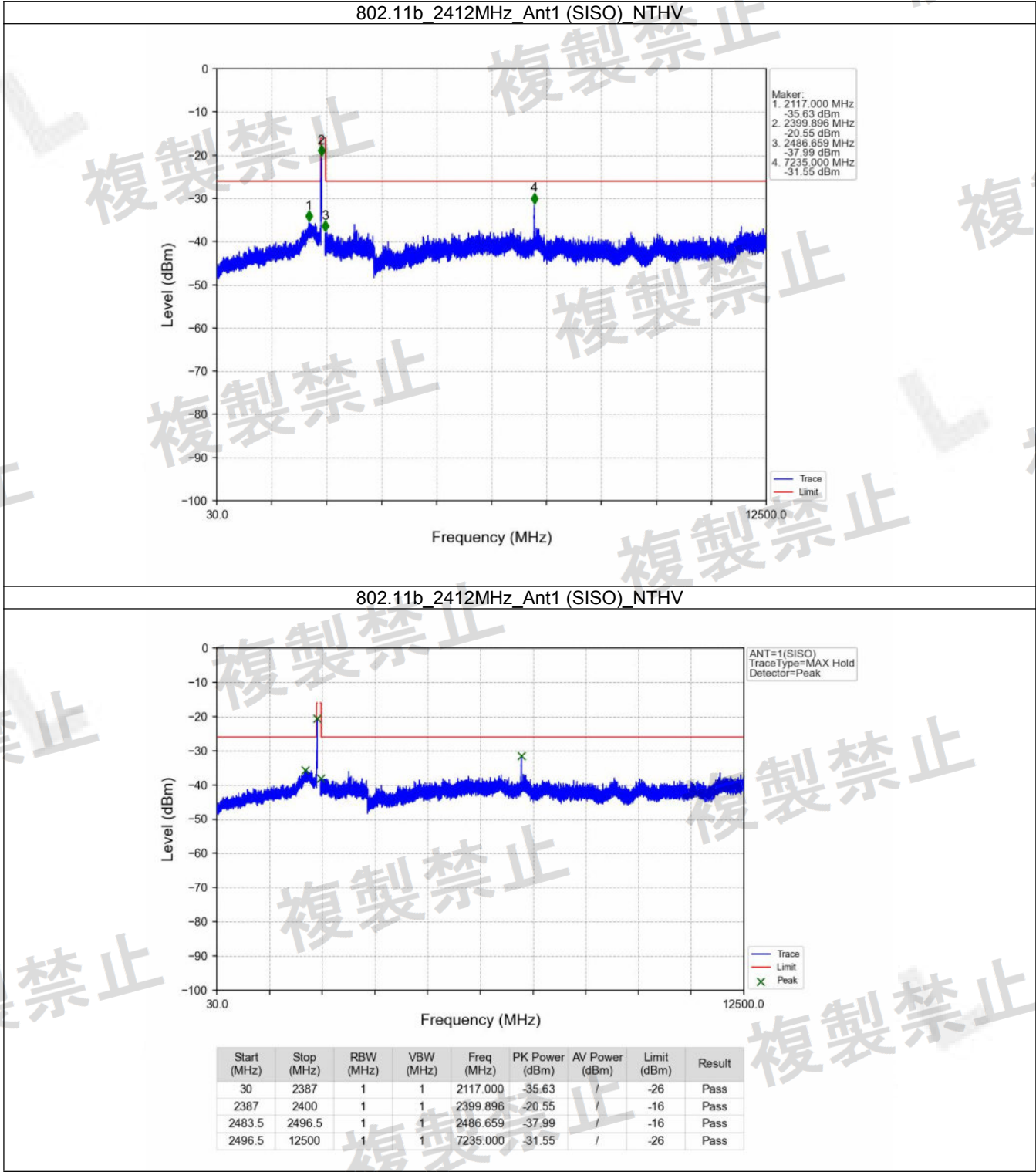


802.11ax(HEW20)_2472MHz_SU_/_Ant1 (SISO)_NTLV

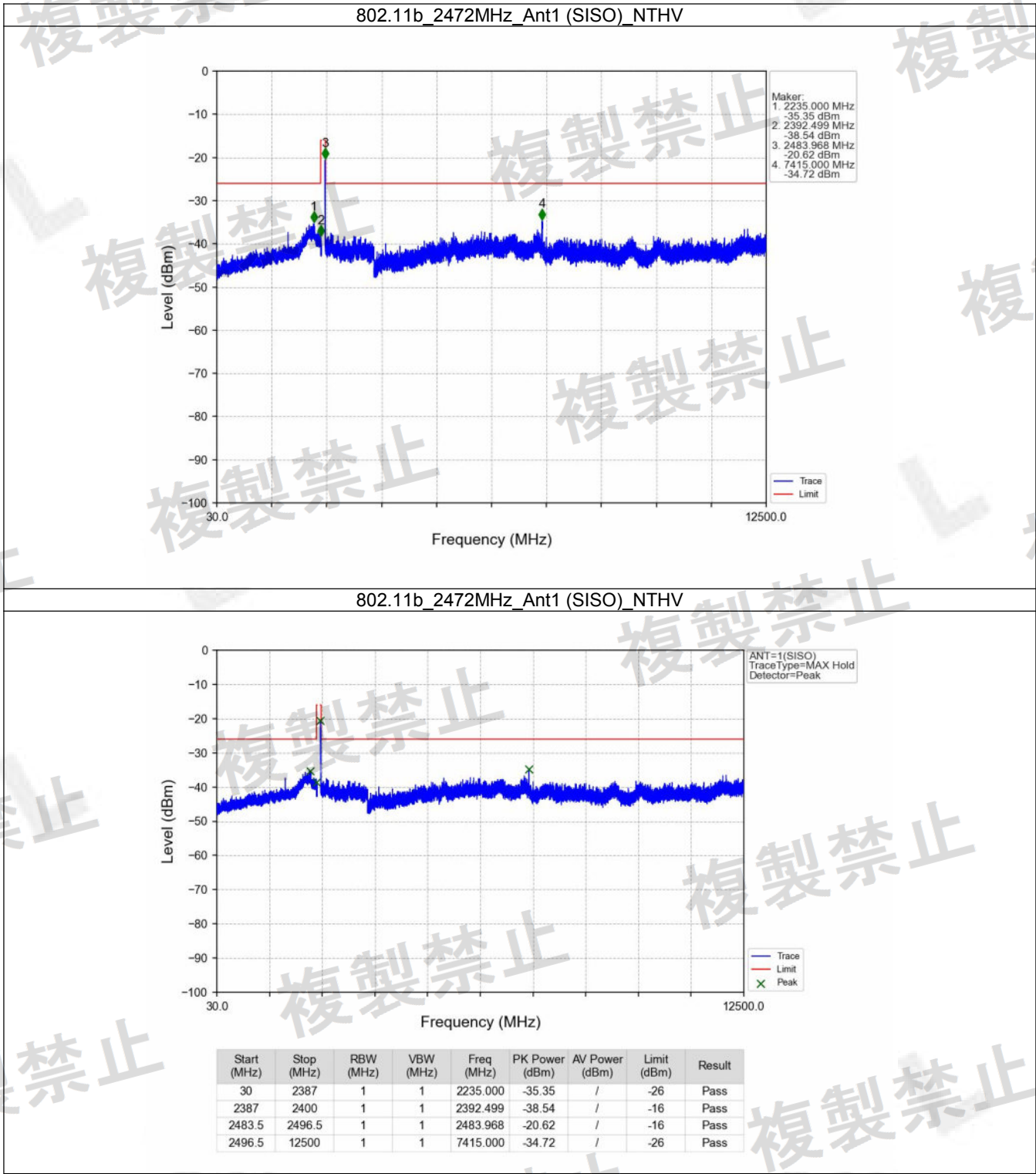


MIC: 219-259586

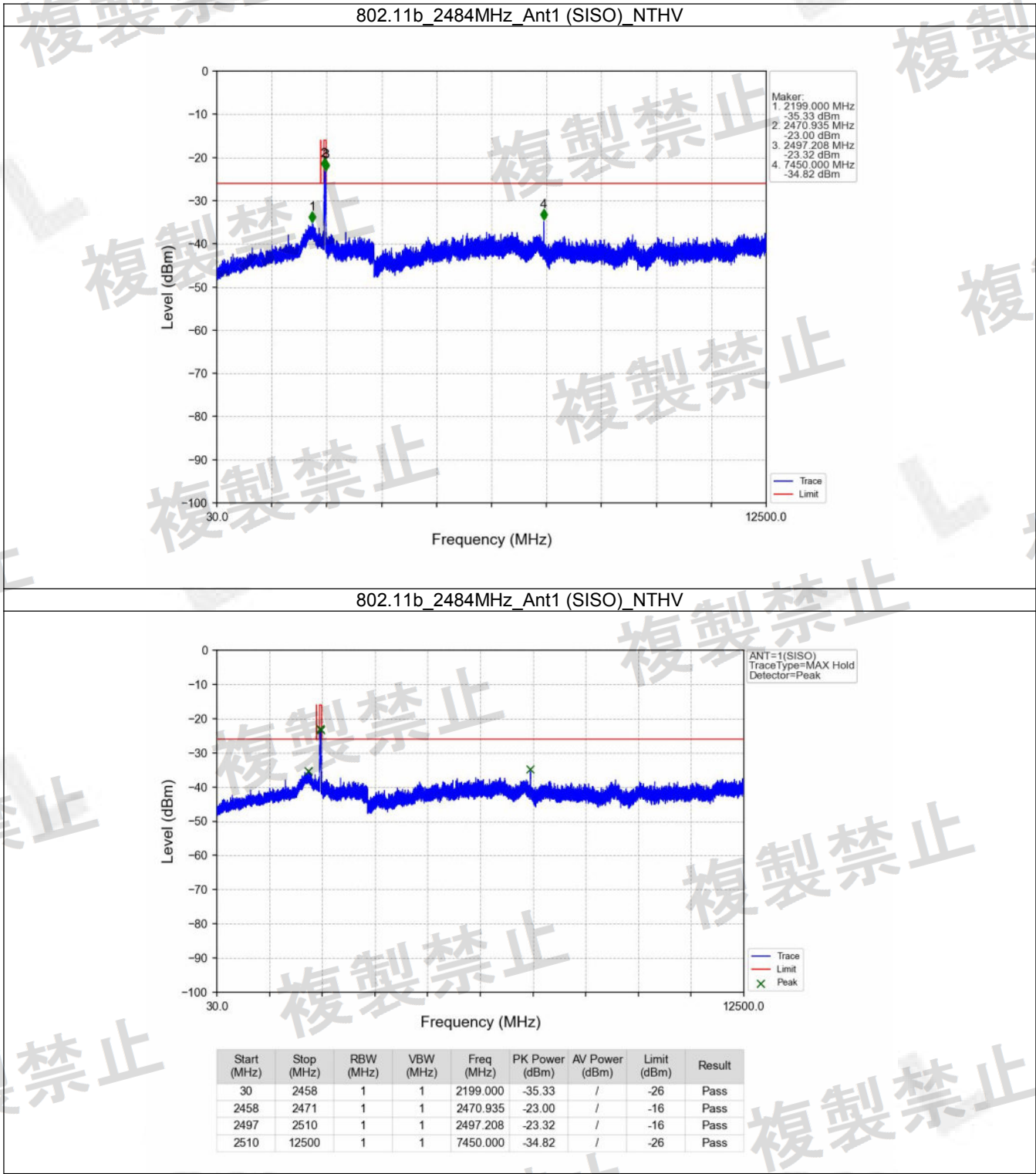
4.2.3 TxSe_NTHV



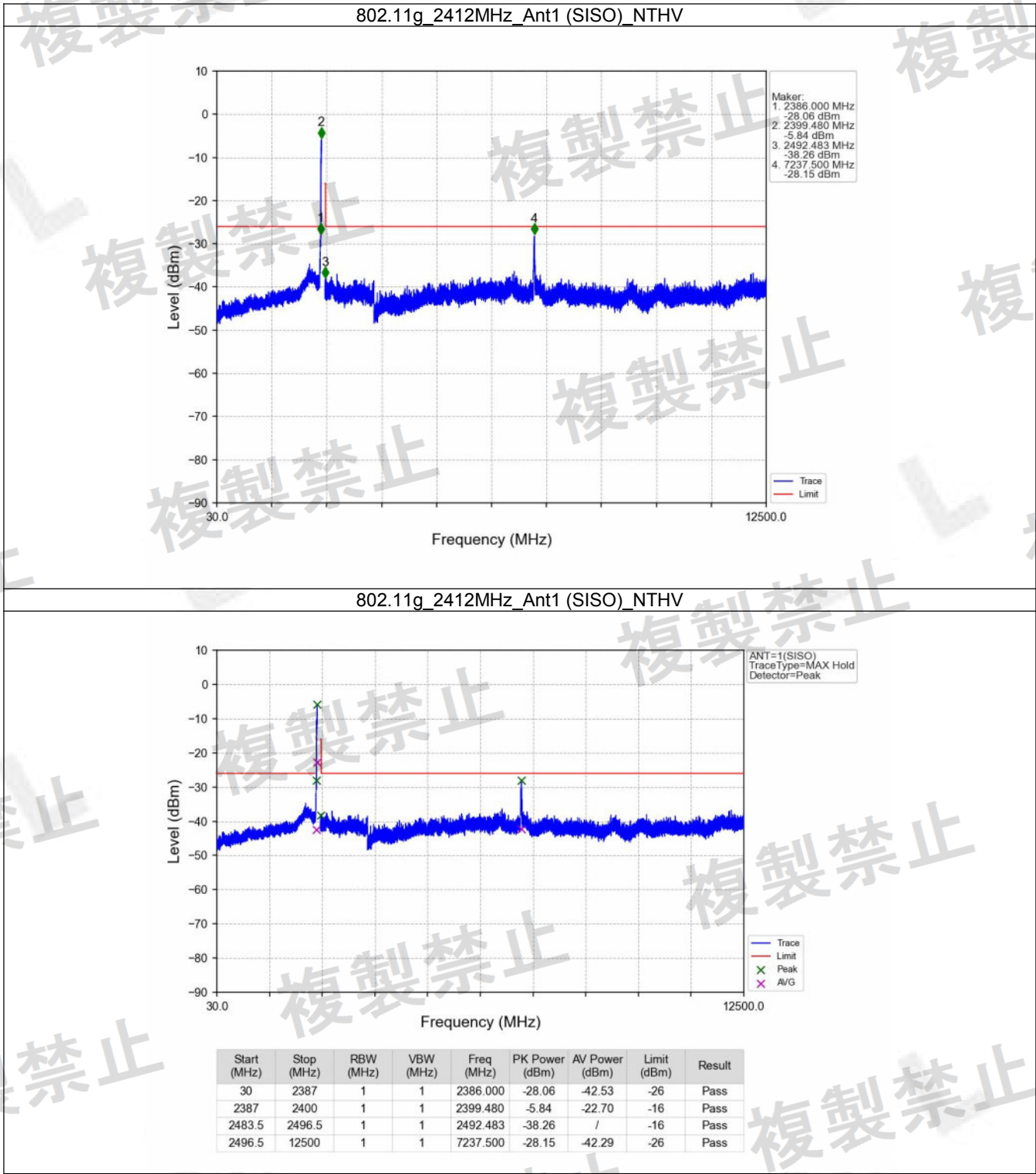
MIC: 219-259586



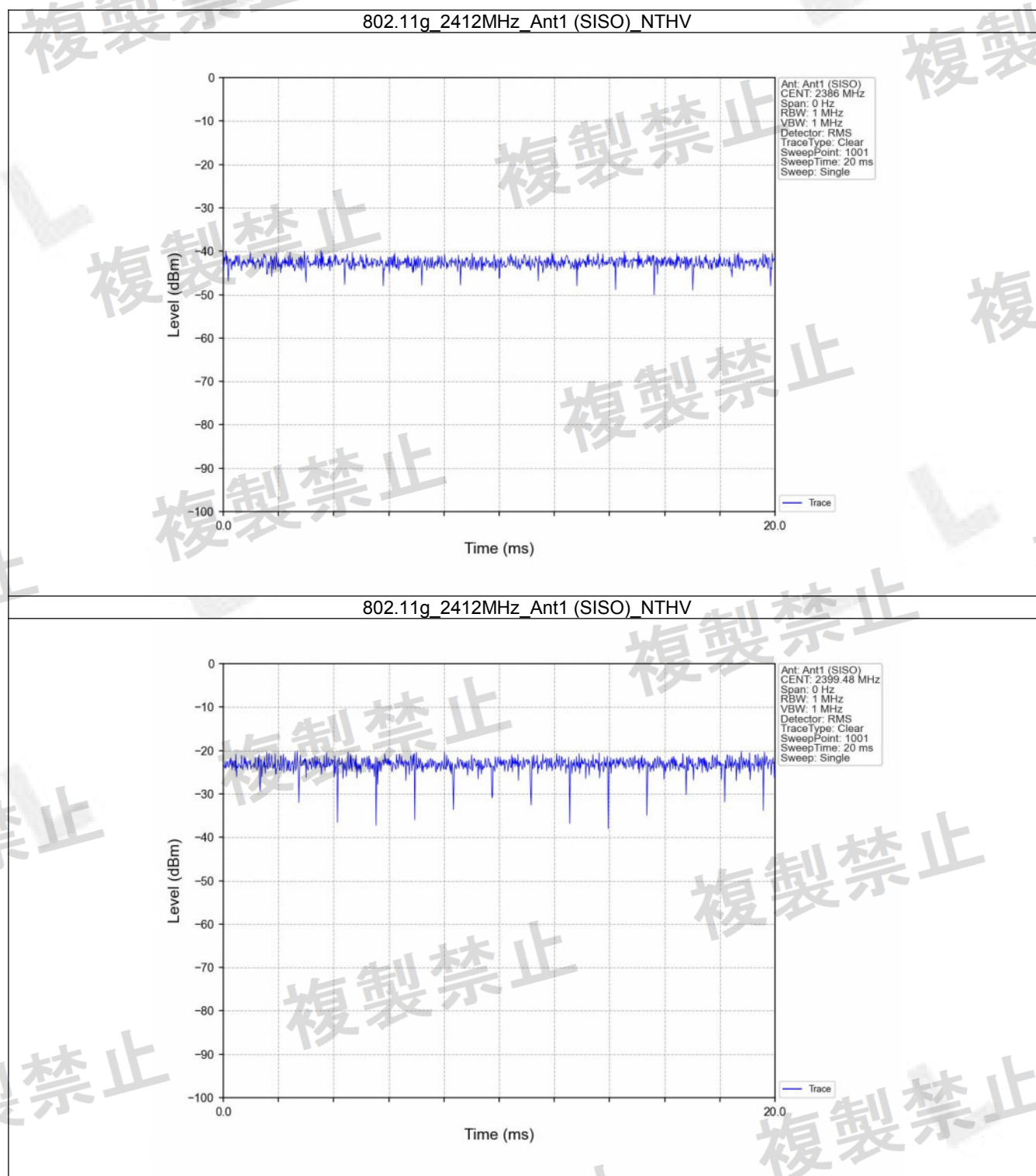
MIC: 219-259586



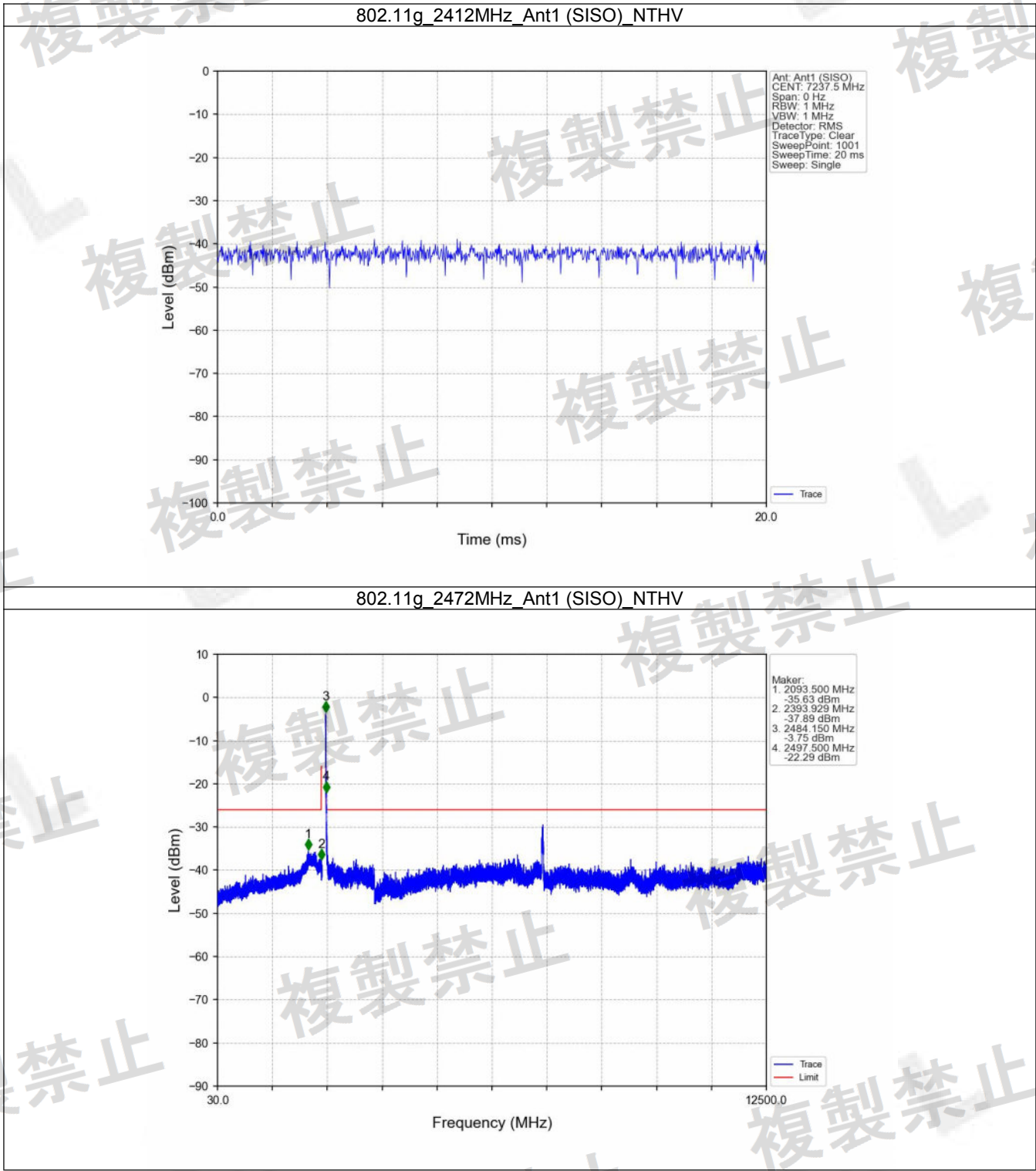
MIC: 219-259586



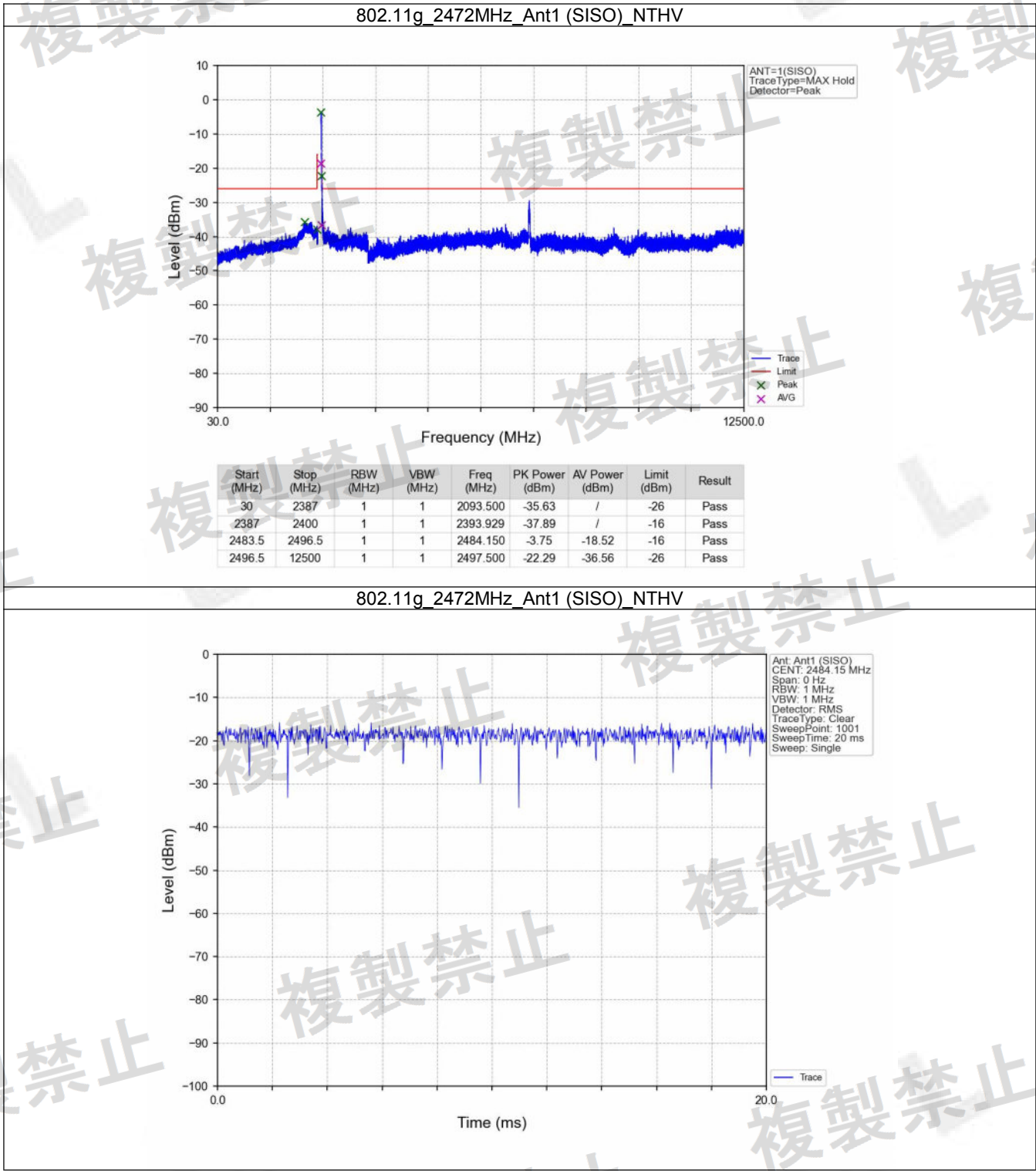
MIC: 219-259586



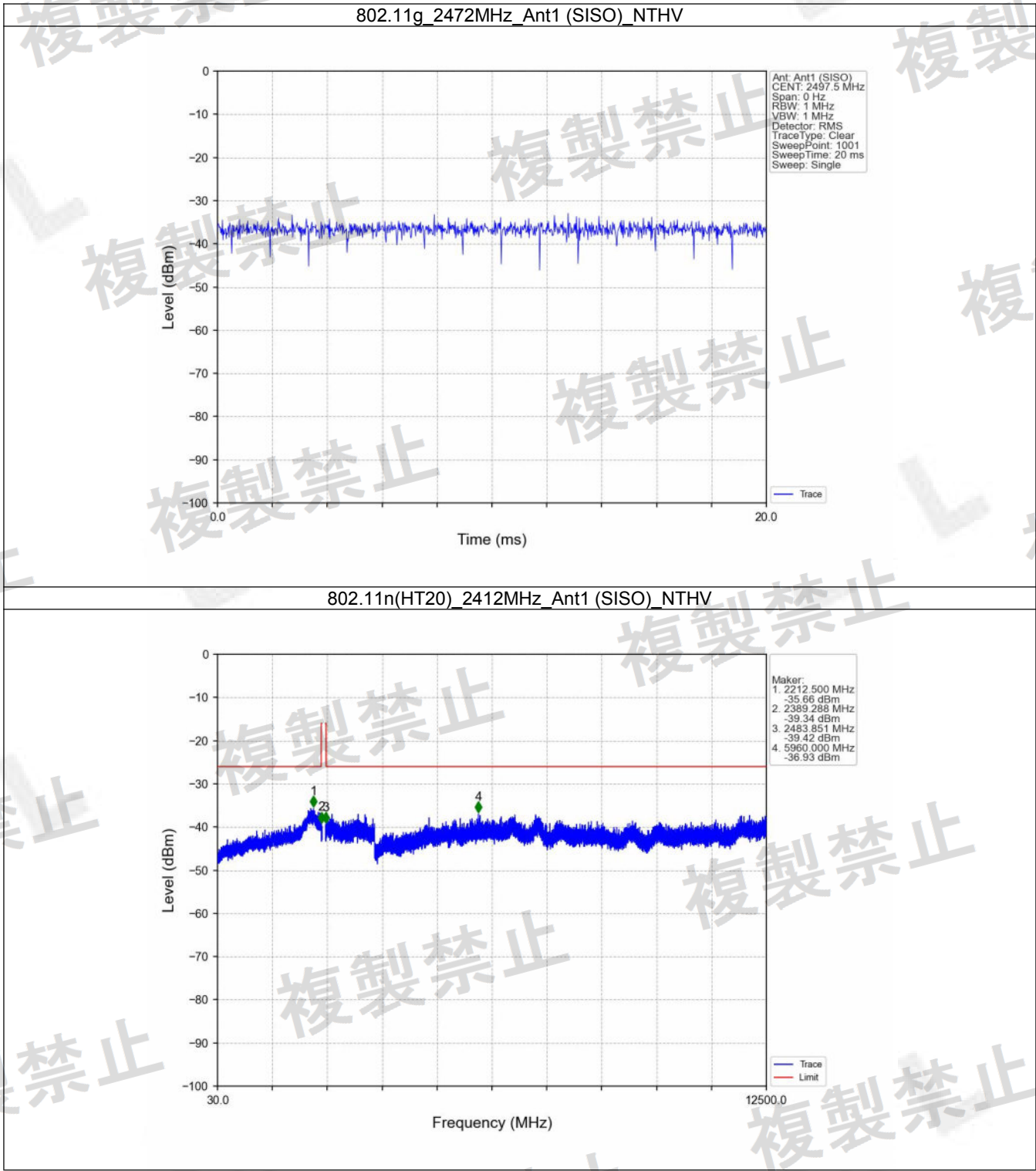
MIC: 219-259586



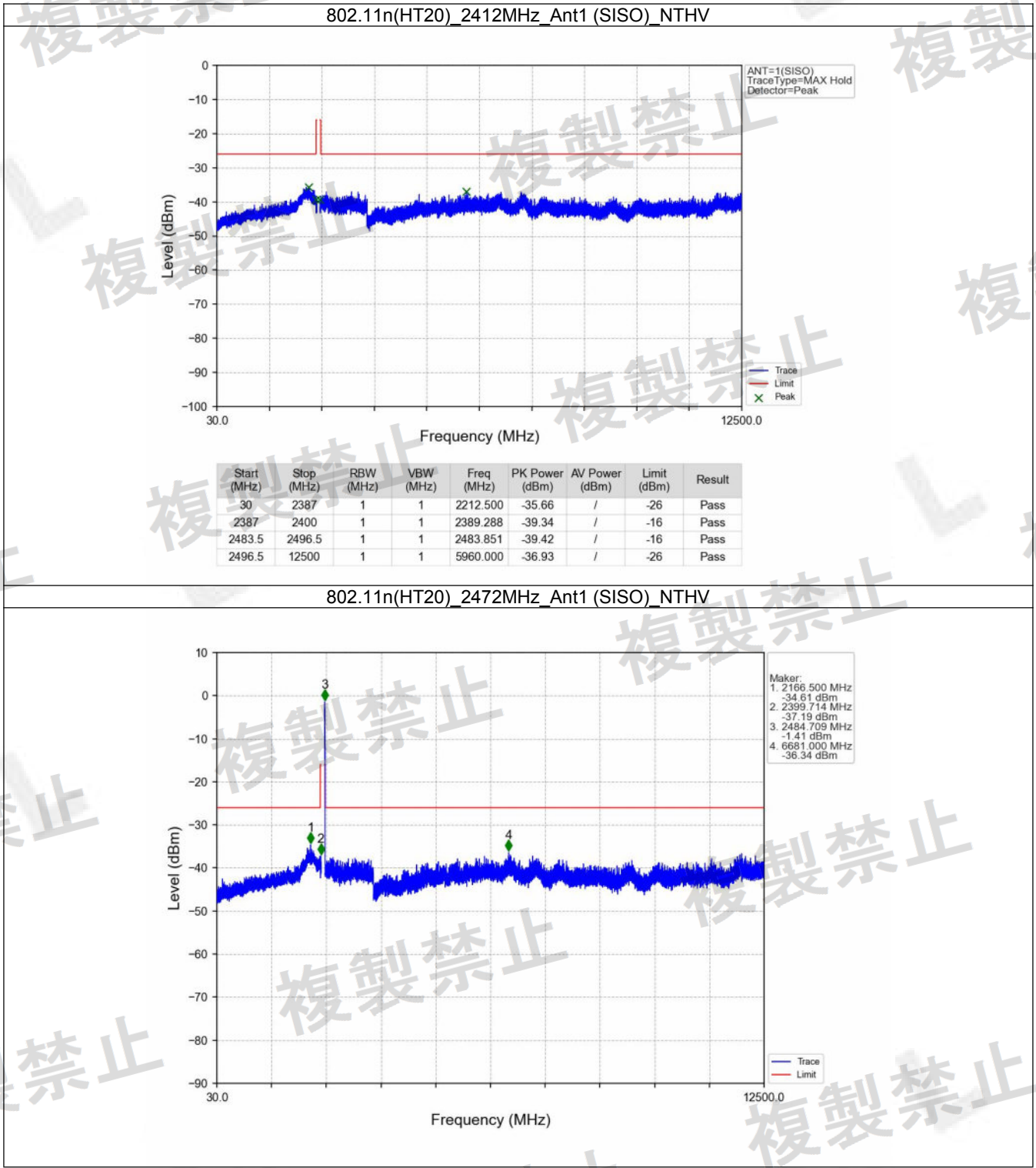
MIC: 219-259586



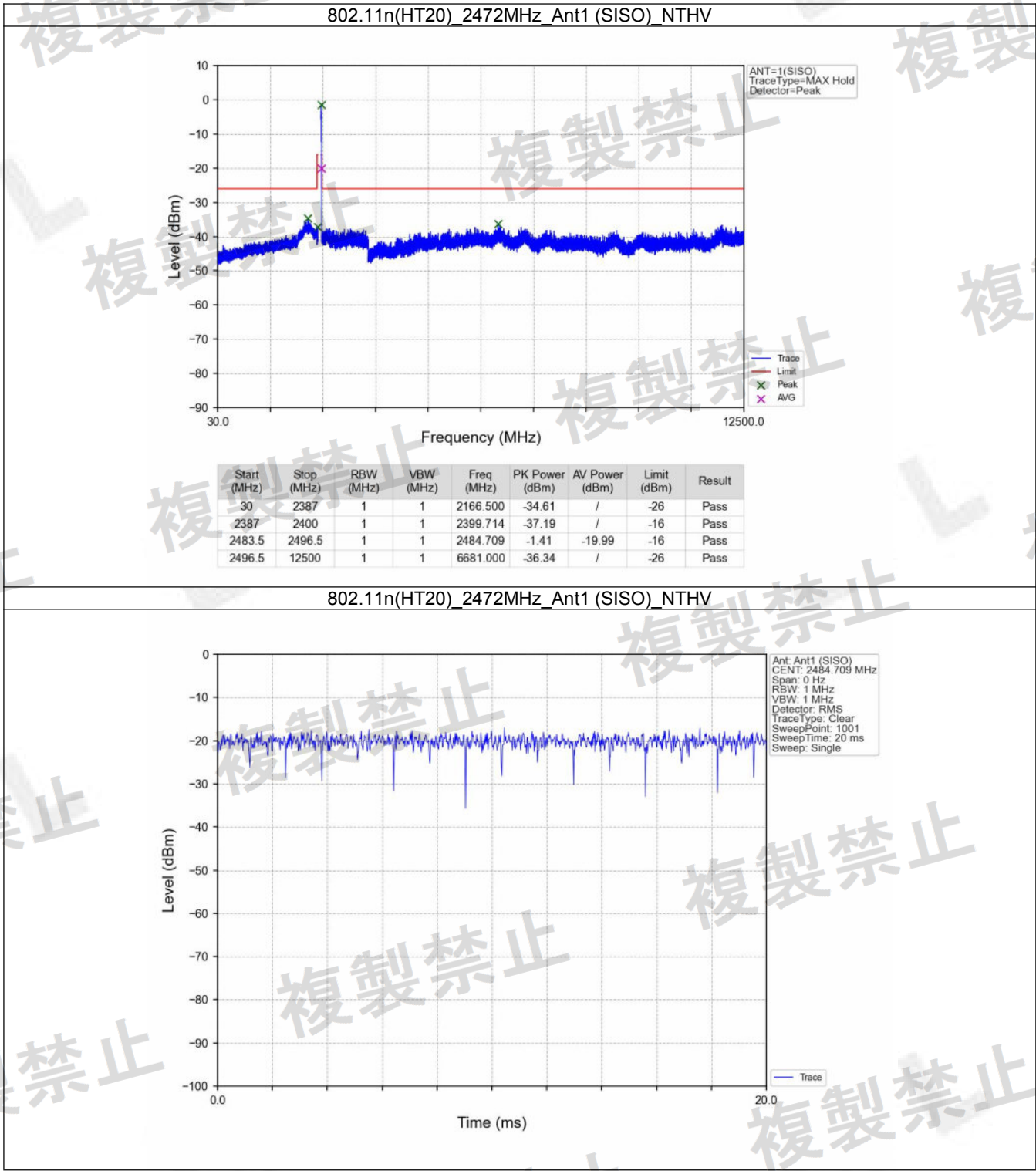
MIC: 219-259586



MIC: 219-259586

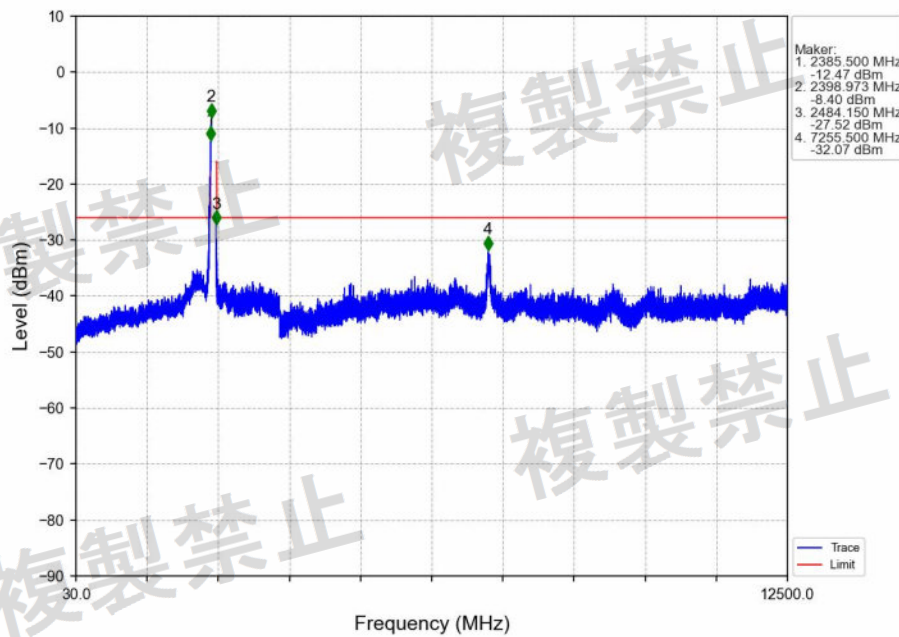


MIC: 219-259586

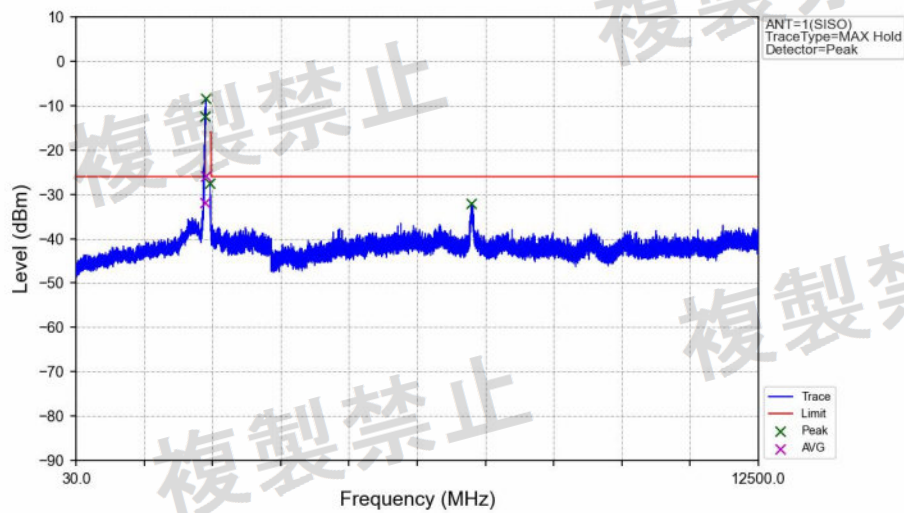


MIC: 219-259586

802.11n(HT40)_2422MHz_Ant1 (SISO)_NTHV

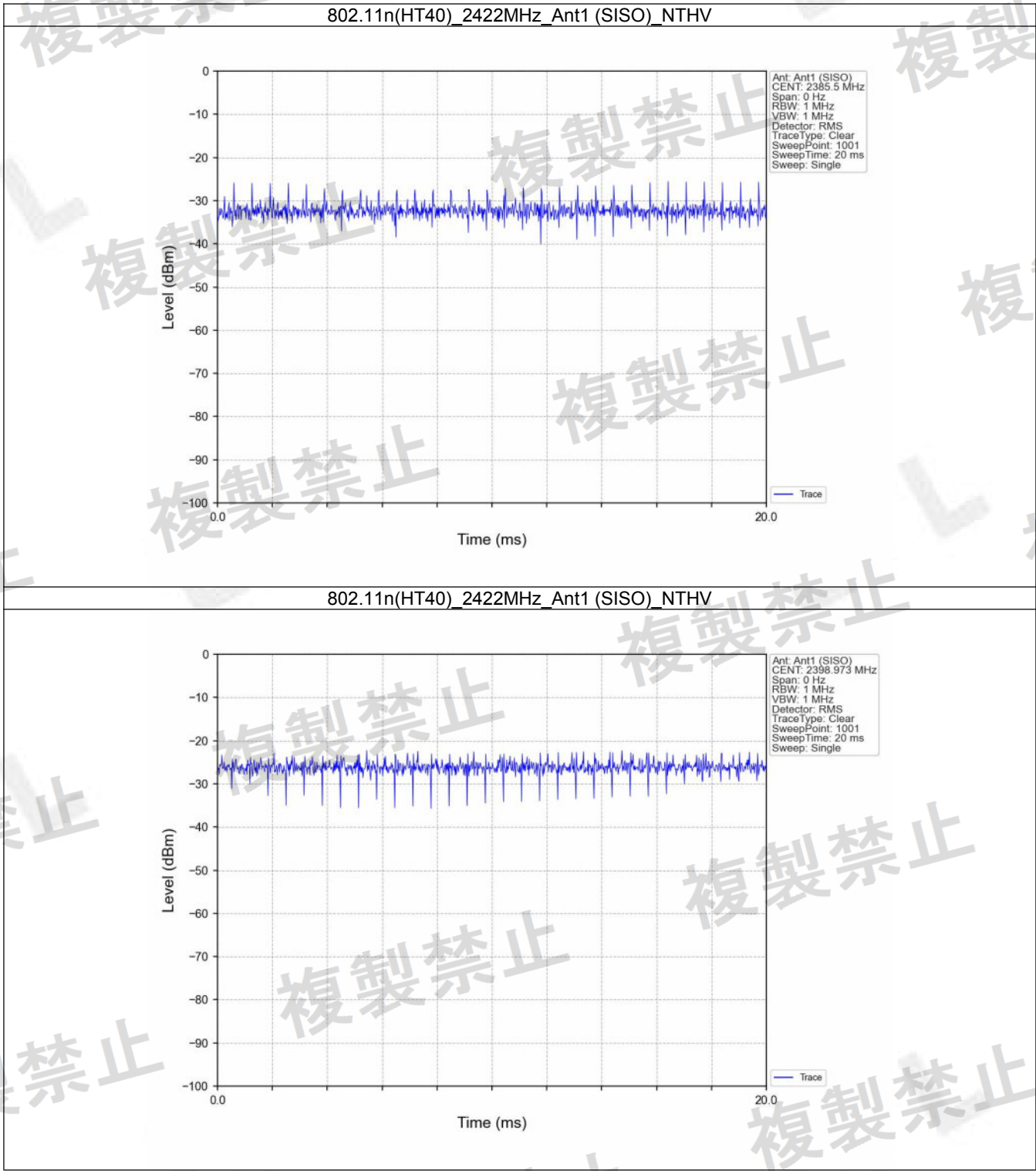


802.11n(HT40)_2422MHz_Ant1 (SISO)_NTHV

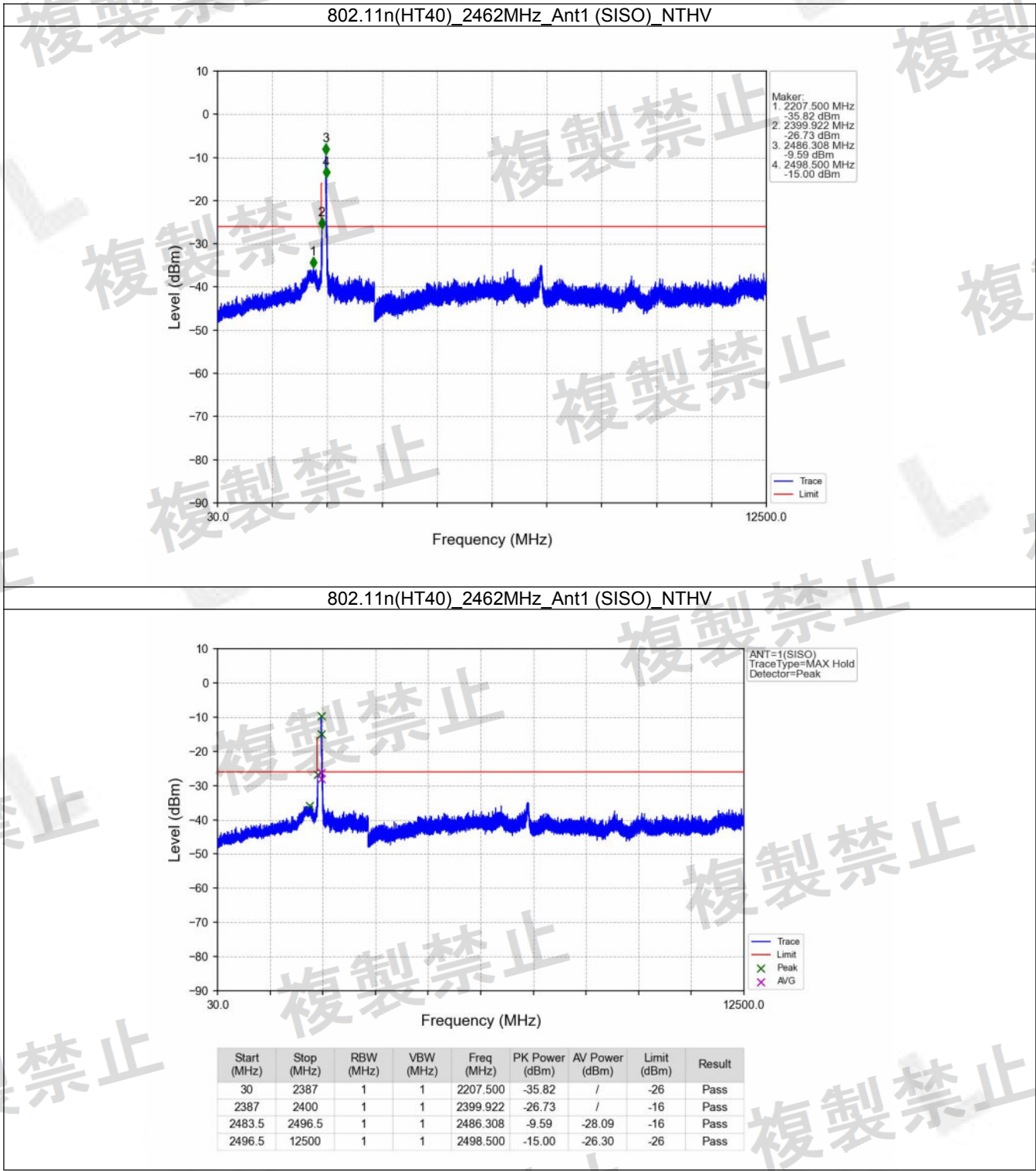


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	2387	1	1	2385.500	-12.47	-31.91	-26	Pass
2387	2400	1	1	2398.973	-8.40	-25.97	-16	Pass
2483.5	2496.5	1	1	2484.150	-27.52	/	-16	Pass
2496.5	12500	1	1	7255.500	-32.07	/	-26	Pass

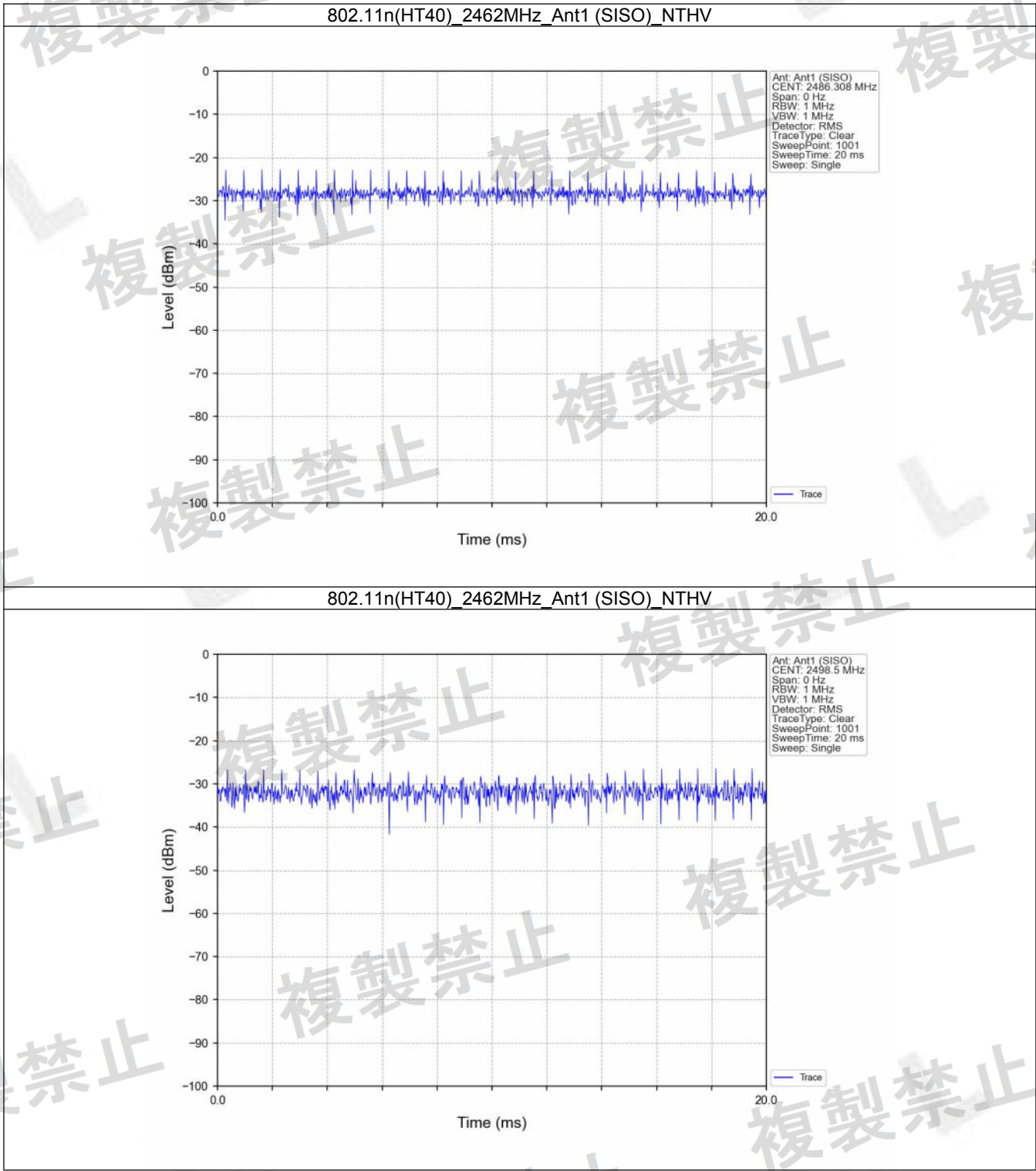
MIC: 219-259586



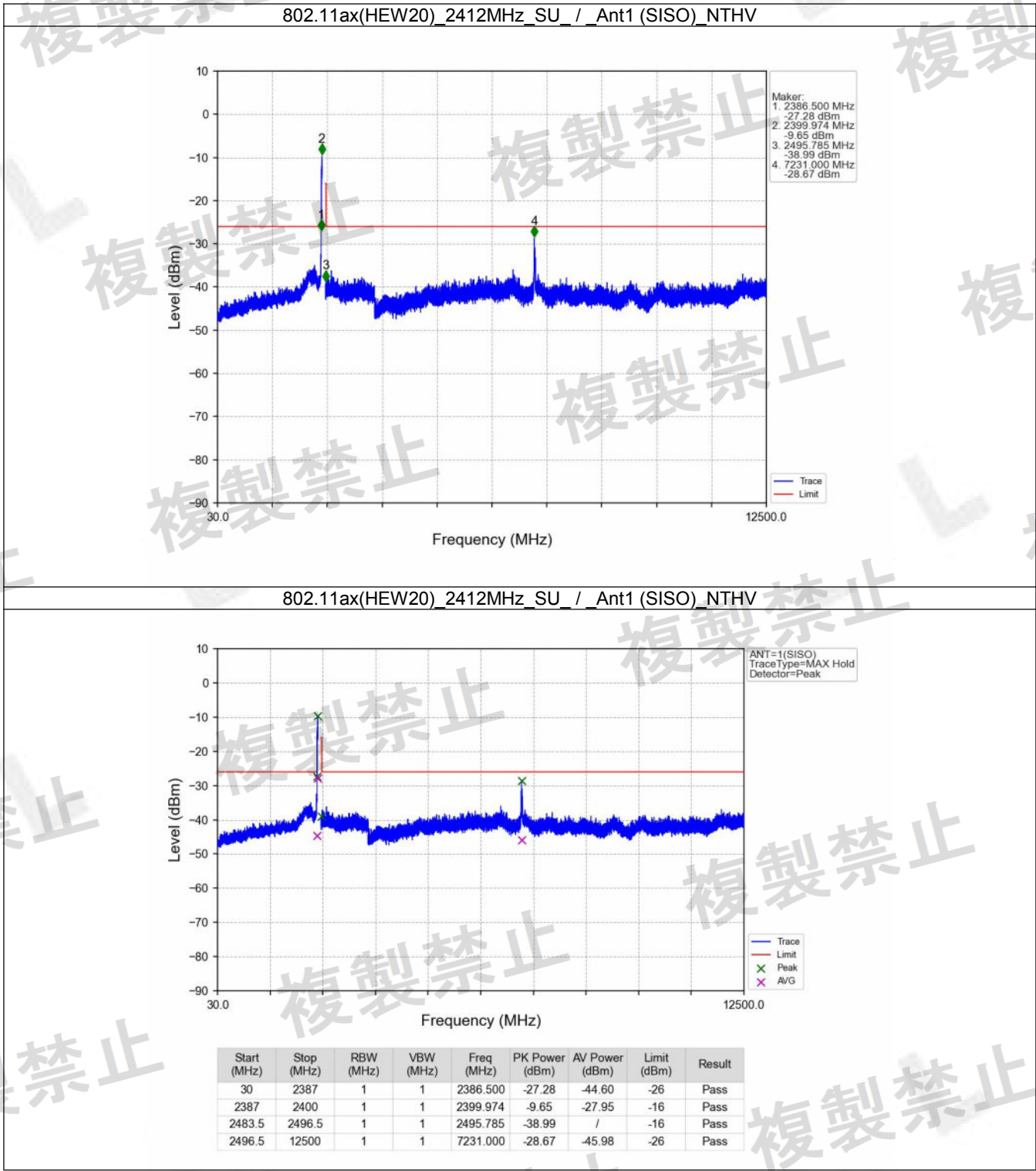
MIC: 219-259586



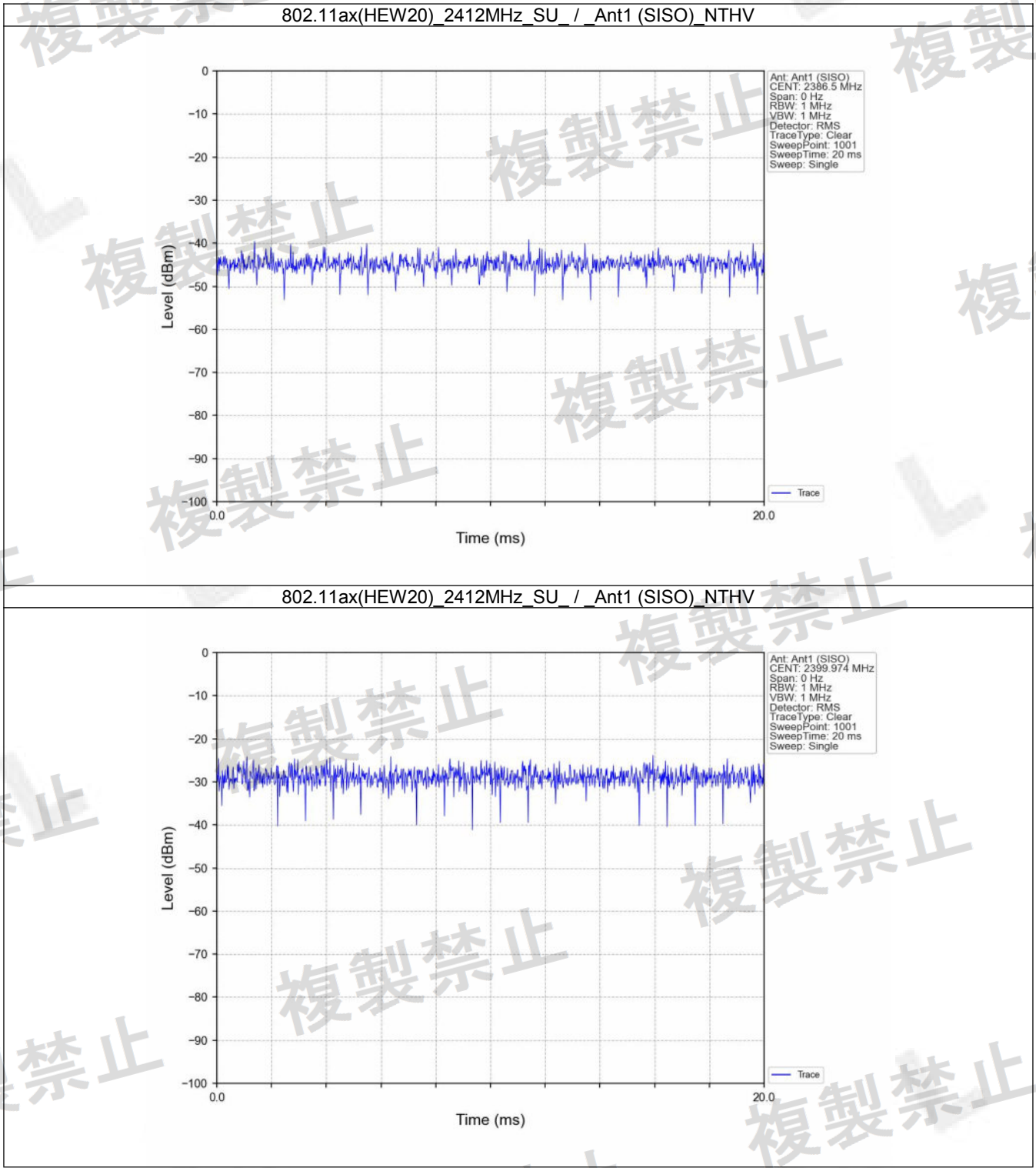
MIC: 219-259586



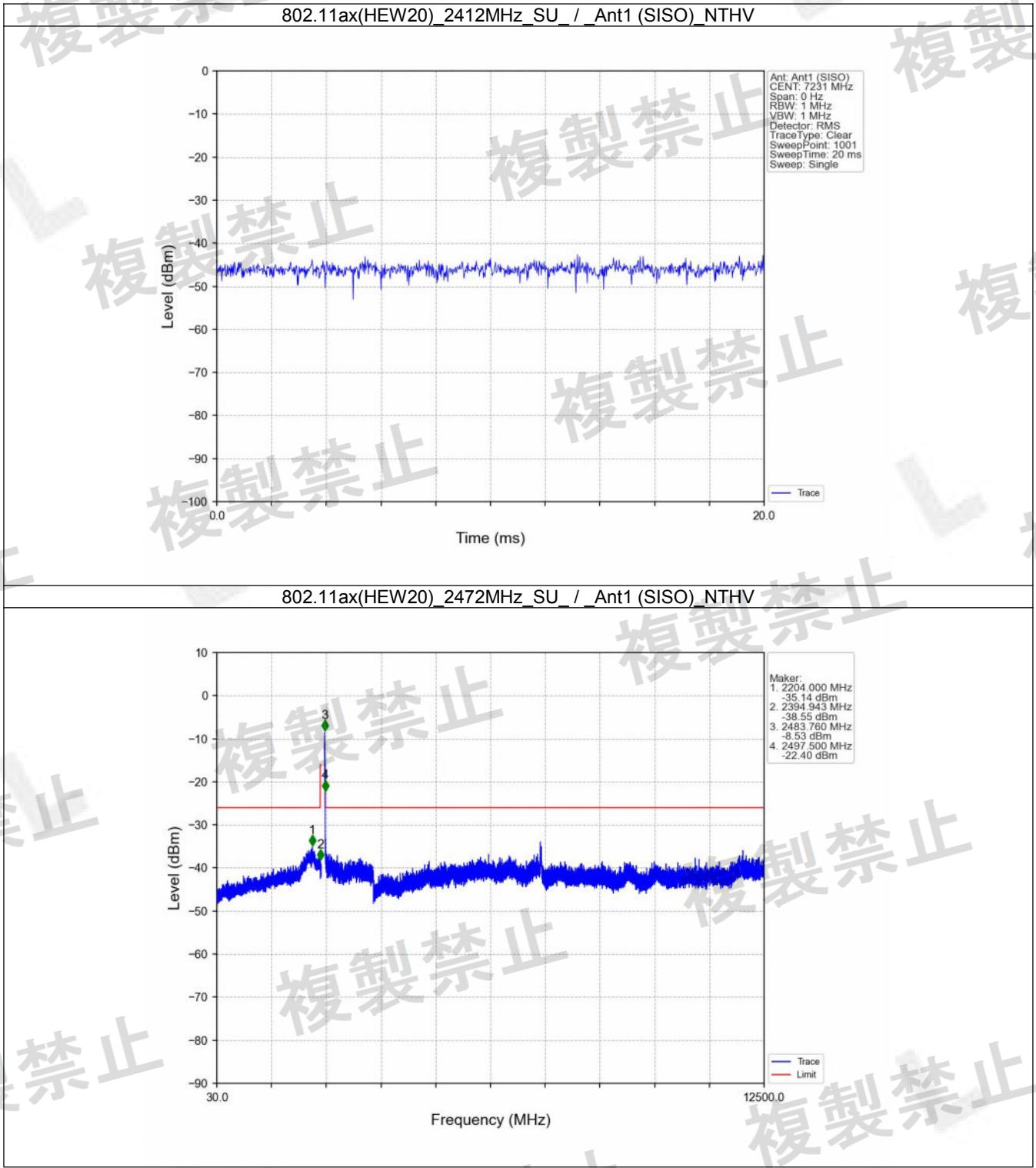
MIC: 219-259586



MIC: 219-259586

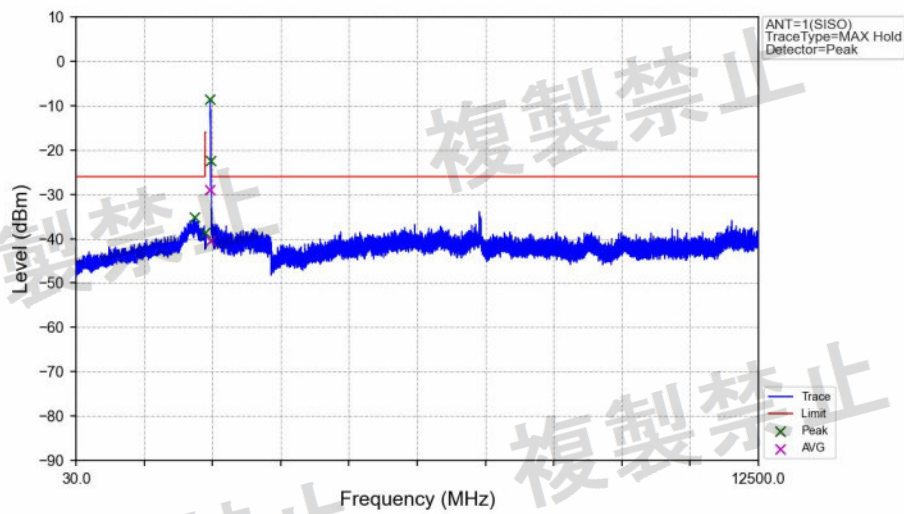


MIC: 219-259586



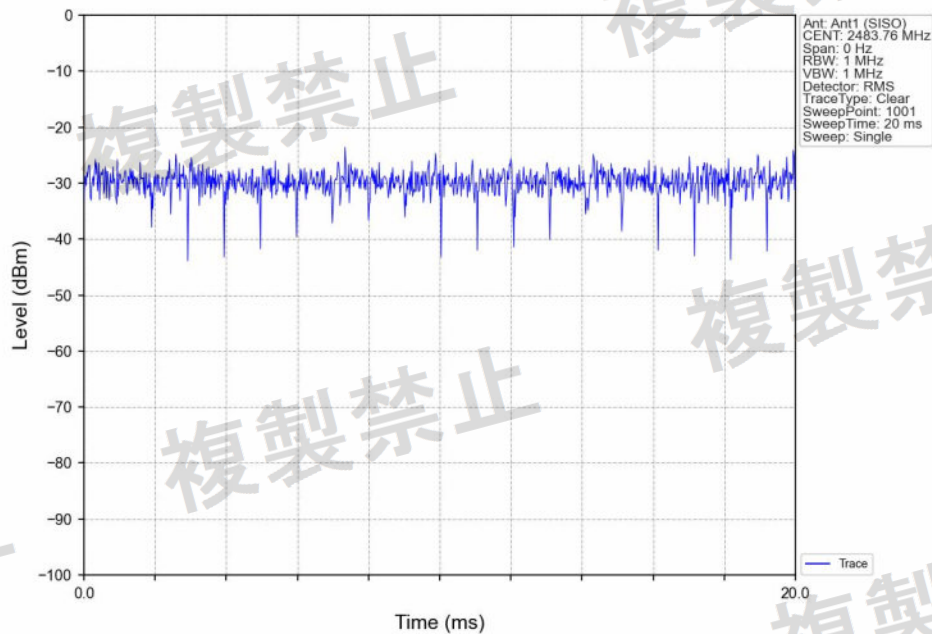
MIC: 219-259586

802.11ax(HEW20)_2472MHz_SU_/_Ant1 (SISO)_NTHV

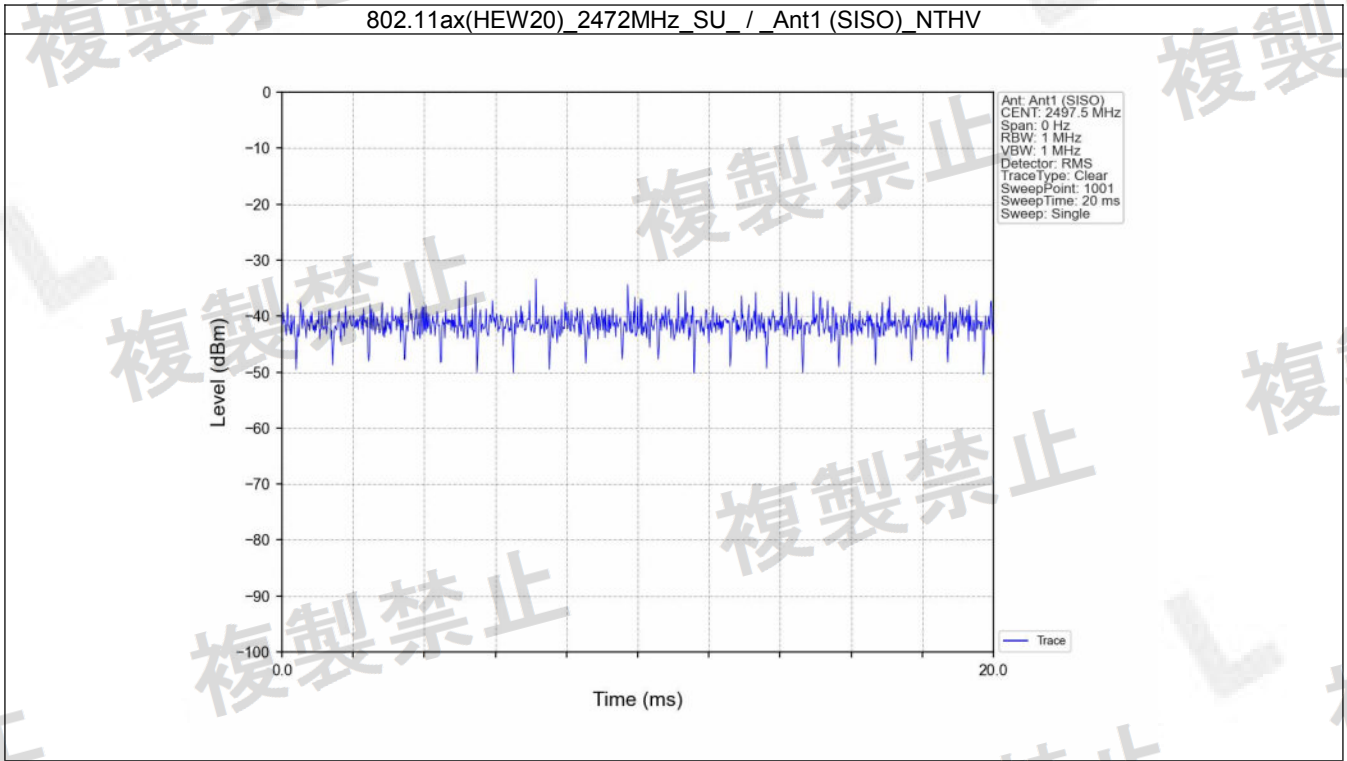


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	2387	1	1	2204.000	-35.14	/	-26	Pass
2387	2400	1	1	2394.943	-38.55	/	-16	Pass
2483.5	2496.5	1	1	2483.760	-8.53	-28.89	-16	Pass
2496.5	12500	1	1	2497.500	-22.40	-40.47	-26	Pass

802.11ax(HEW20)_2472MHz_SU_/_Ant1 (SISO)_NTHV



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5. Secondary Radiated Emission

5.1 Test Result

5.1.1 RxSe_NTNV

NTNV														
Mode	TX Type	Freq. (MHz)	RU	RU Pos	ANT	Freq. Range		Marker					Limit (nW)	Verdict
						Start (MHz)	Stop (MHz)	Freq. (MHz)	PK Power (dBm)	PK Power (nW)	AV Power (dBm)	AV Power (nW)		
802.11b	SISO	2412	/	/	1	30	1000	704.2	-59.82	1.042	-92.34	0.001	4	Pass
								728.95	-60.63	0.865	-92.15	0.001	4	Pass
						1000	12500	2410	-52.18	6.053	-80.21	0.010	20	Pass
		2472	/	/	1	30	1000	704.65	-52.09	6.180	-92.26	0.001	4	Pass
								730.95	-58.55	1.396	-91.84	0.001	4	Pass
						1000	12500	1952.5	-50.82	8.279	-80.99	0.008	20	Pass
		2484	/	/	1	30	1000	2410.5	-54.47	3.573	-80.51	0.009	20	Pass
								704.6	-58.52	1.406	-92.35	0.001	4	Pass
								728.55	-61.08	0.780	-91.98	0.001	4	Pass
						1000	12500	2412	-57.67	1.710	/	/	20	Pass
								704.6	-60.06	0.986	-76.64	0.022	4	Pass
								727	-57.63	1.726	-92.01	0.001	4	Pass
802.11g	SISO	2412	/	/	1	30	1000	2411	-53.45	4.519	-80.53	0.009	20	Pass
						1000	12500	769.15	-76.58	0.022	/	/	4	Pass
		2472	/	/	1	30	1000	2410.5	-50.54	8.831	-57.19	1.910	20	Pass
						1000	12500	945.75	-76.73	0.021	/	/	4	Pass
802.11n (HT20)	SISO	2412	/	/	1	30	1000	2410.5	-51.89	6.471	-79.87	0.010	20	Pass
						1000	12500	704.2	-65.07	0.311	/	/	4	Pass
		2472	/	/	1	30	1000	2411	-52.23	5.984	-80.34	0.009	20	Pass
						1000	12500	907.95	-76.04	0.025	/	/	4	Pass
802.11n (HT40)	SISO	2422	/	/	1	30	1000	2409	-52.37	5.794	-80.31	0.009	20	Pass
						1000	12500	891.1	-76.96	0.020	/	/	4	Pass
		2462	/	/	1	30	1000	2411	-53.57	4.395	-80.11	0.010	20	Pass
						1000	12500	942.1	-76.53	0.022	/	/	4	Pass
802.11ax (HEW20)	SISO	2412	SU	/	1	30	1000	2413.5	-51.99	6.324	-72.16	0.061	20	Pass
						1000	12500	894.35	-69.93	0.102	/	/	4	Pass
		2472	SU	/	1	30	1000	2410.5	-52.79	5.260	-76.65	0.022	20	Pass
						1000	12500							

5.1.2 RxSe_NTLV

NTLV														
Mode	TX Type	Freq. (MHz)	RU	RU Pos	ANT	Freq. Range		Marker					Limit (nW)	Verdict
						Start (MHz)	Stop (MHz)	Freq. (MHz)	PK Power (dBm)	PK Power (nW)	AV Power (dBm)	AV Power (nW)		
802.11b	SISO	2412	/	/	1	30	1000	704.3	-57.31	1.858	-81.10	0.008	4	Pass
								731.5	-63.39	0.458	-92.16	0.001	4	Pass
						1000	12500	2411	-52.48	5.649	-67.85	0.164	20	Pass
		2472	/	/	1	30	1000	704.55	-59.42	1.143	-92.31	0.001	4	Pass
								1000	12500	2410.5	-56.60	2.188	-80.39	0.009
		2484	/	/	1	30	1000	704.55	-51.99	6.324	-72.31	0.059	4	Pass
								1000	12500	2411	-56.99	2.000	-80.34	0.009

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802.11g	SISO	2412	/	/	1	30	1000	917.45	-76.90	0.020	/	/	4	Pass
						1000	12500	2410.5	-51.22	7.551	-55.92	2.559	20	Pass
		2472	/	/	1	30	1000	891	-76.83	0.021	/	/	4	Pass
						1000	12500	2410.5	-51.64	6.855	-80.06	0.010	20	Pass
802.11n (HT20)	SISO	2412	/	/	1	30	1000	884.65	-77.33	0.018	/	/	4	Pass
						1000	12500	2410	-52.90	5.129	-66.94	0.202	20	Pass
		2472	/	/	1	30	1000	784.35	-77.00	0.020	/	/	4	Pass
						1000	12500	2411	-52.12	6.138	-68.57	0.139	20	Pass
802.11n (HT40)	SISO	2422	/	/	1	30	1000	830.75	-76.79	0.021	/	/	4	Pass
						1000	12500	1778.5	-48.95	12.735	-54.84	3.281	20	Pass
		2462	/	/	1	30	1000	2410.5	-51.97	6.353	-80.47	0.009	20	Pass
						1000	12500	954.7	-75.40	0.029	/	/	4	Pass
802.11ax (HEW20)	SISO	2412	SU	/	1	30	1000	2412	-51.63	6.871	-80.15	0.010	20	Pass
						1000	12500	883.15	-76.77	0.021	/	/	4	Pass
		2472	SU	/	1	30	1000	1952	-56.72	2.128	-80.65	0.009	20	Pass
						1000	12500	2411	-50.94	8.054	-80.13	0.010	20	Pass
						30	1000	928.45	-76.77	0.021	/	/	4	Pass
						1000	12500	12498.5	-61.87	0.650	/	/	20	Pass

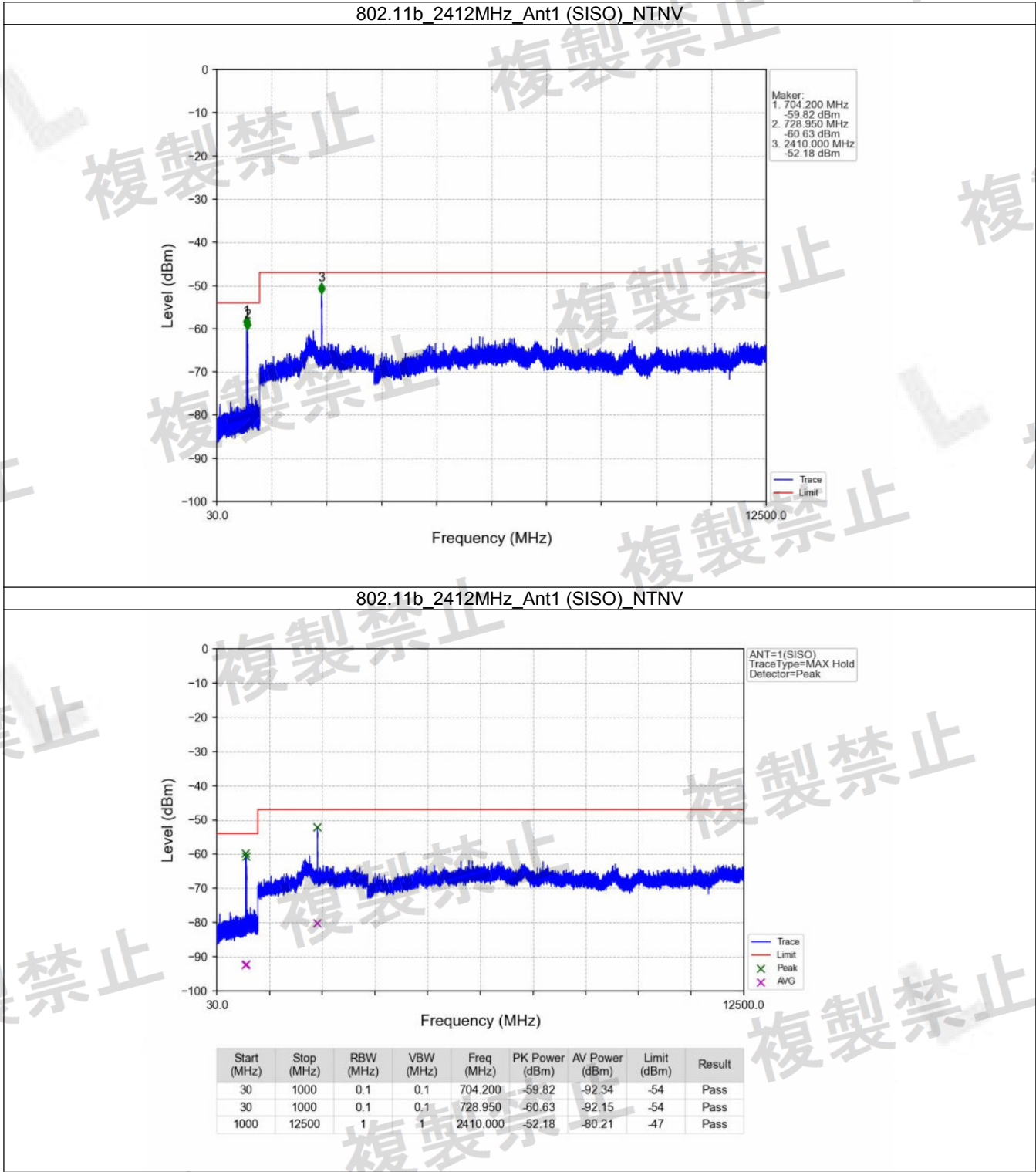
5.1.3 RxSe_NTHV

NTHV														
Mode	TX Type	Freq. (MHz)	RU	RU Pos	ANT	Freq. Range		Marker					Limit (nW)	Verdict
						Start (MHz)	Stop (MHz)	Freq. (MHz)	PK Power (dBm)	PK Power (nW)	AV Power (dBm)	AV Power (nW)		
802.11b	SISO	2412	/	/	1	30	1000	704.25	-56.34	2.323	-92.24	0.001	4	Pass
						1000	12500	1923.5	-52.93	5.093	-81.43	0.007	20	Pass
		2472	/	/	1	30	1000	704.2	-61.81	0.659	-83.59	0.004	4	Pass
						731.35	-60.85	0.822	-91.99	0.001	4	Pass		
						1000	12500	2410.5	-51.36	7.311	-80.04	0.010	20	Pass
						30	1000	704.2	-52.17	6.067	-75.26	0.030	4	Pass
		2484	/	/	1	731.3	-60.15	0.966	-92.10	0.001	4	Pass		
						1000	12500	2412.5	-57.03	1.982	/	/	20	Pass
802.11g	SISO	2412	/	/	1	30	1000	772.1	-77.20	0.019	/	/	4	Pass
						1000	12500	2411	-51.25	7.499	-56.16	2.421	20	Pass
		2472	/	/	1	30	1000	913.6	-76.28	0.024	/	/	4	Pass
						1000	12500	2410.5	-51.30	7.413	-80.17	0.010	20	Pass
802.11n (HT20)	SISO	2412	/	/	1	30	1000	705.15	-69.05	0.124	/	/	4	Pass
						1000	12500	2410	-53.27	4.710	-80.19	0.010	20	Pass
		2472	/	/	1	30	1000	631.5	-77.15	0.019	/	/	4	Pass
						1000	12500	2410.5	-51.06	7.834	-80.45	0.009	20	Pass
802.11n (HT40)	SISO	2422	/	/	1	30	1000	902.85	-76.79	0.021	/	/	4	Pass
						1000	12500	2410	-53.28	4.699	-80.59	0.009	20	Pass
		2462	/	/	1	30	1000	719.85	-62.38	0.578	-92.26	0.001	4	Pass
						1000	12500	2131.5	-62.55	0.556	/	/	20	Pass
802.11ax (HEW20)	SISO	2412	SU	/	1	30	1000	705.15	-68.48	0.142	/	/	4	Pass
						1000	12500	2411	-51.95	6.383	-70.03	0.099	20	Pass
		2472	SU	/	1	30	1000	704.6	-60.60	0.871	-92.25	0.001	4	Pass
						889.95	-54.97	3.184	-91.90	0.001	4	Pass		
						1000	12500	2410.5	-51.88	6.486	-74.36	0.037	20	Pass

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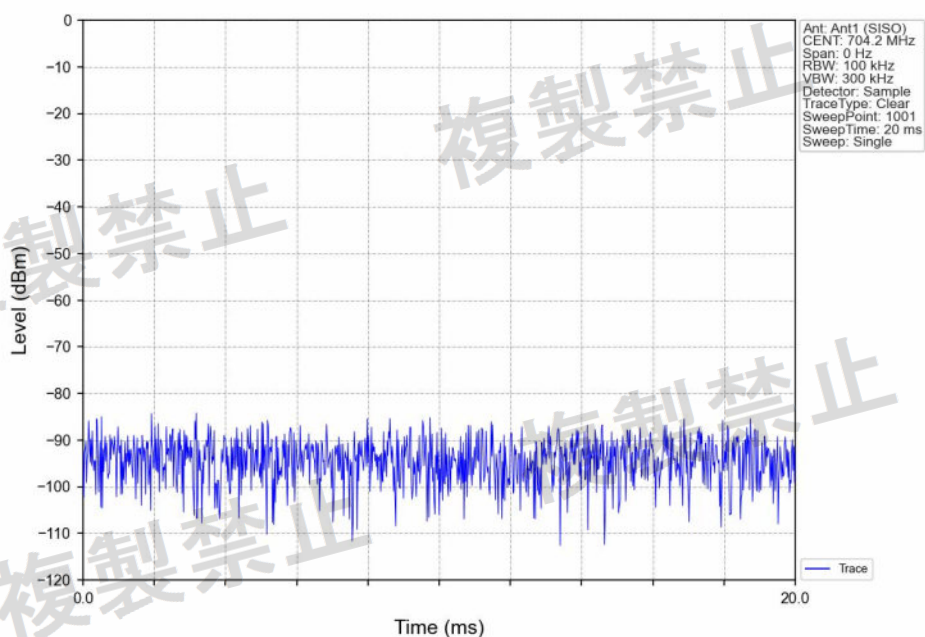
5.2 Test Graph

5.2.1 RxSe_NTNV

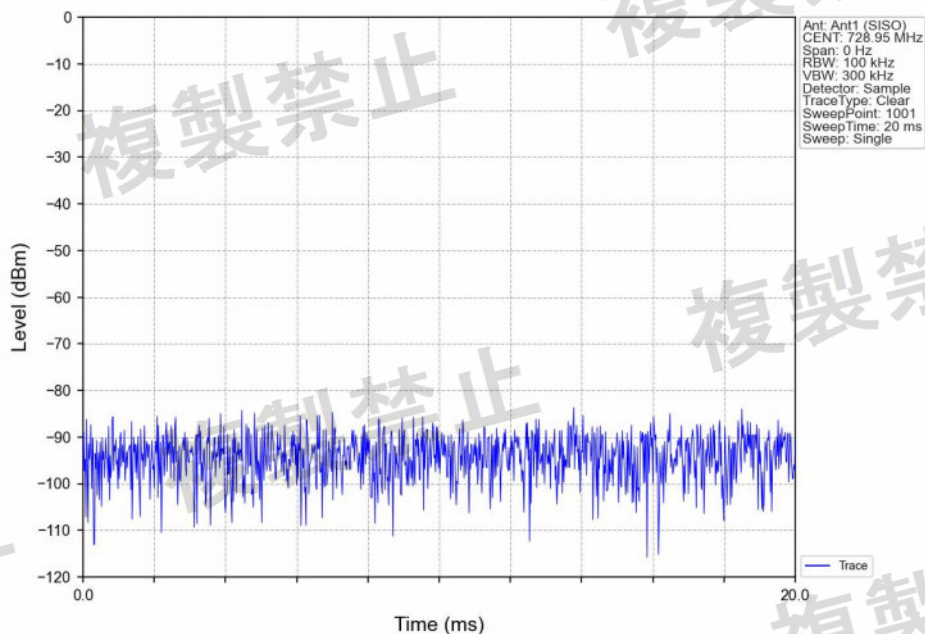


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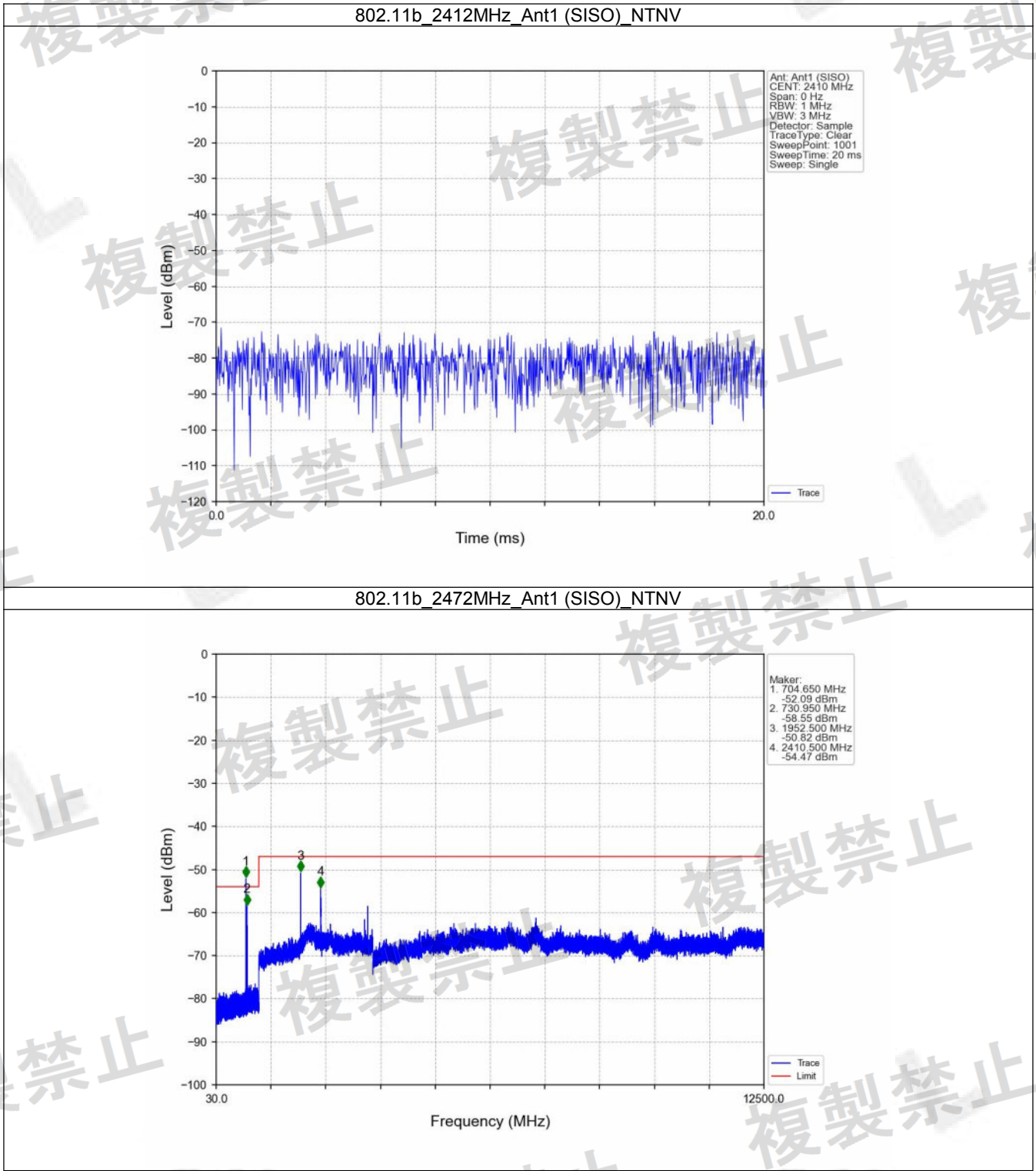
802.11b_2412MHz_Ant1 (SISO)_NTNV



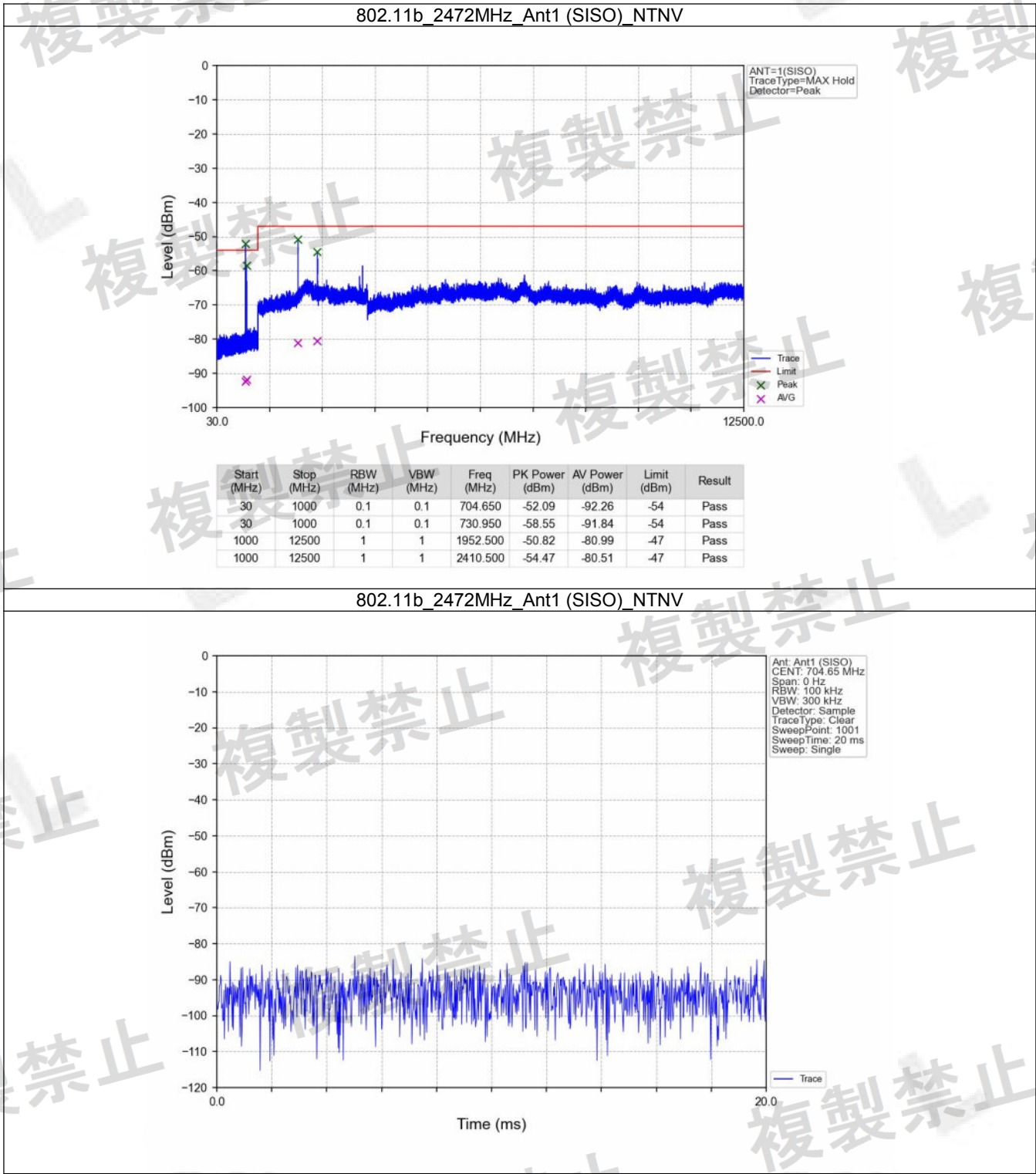
802.11b_2412MHz_Ant1 (SISO)_NTNV



MIC: 219-259586

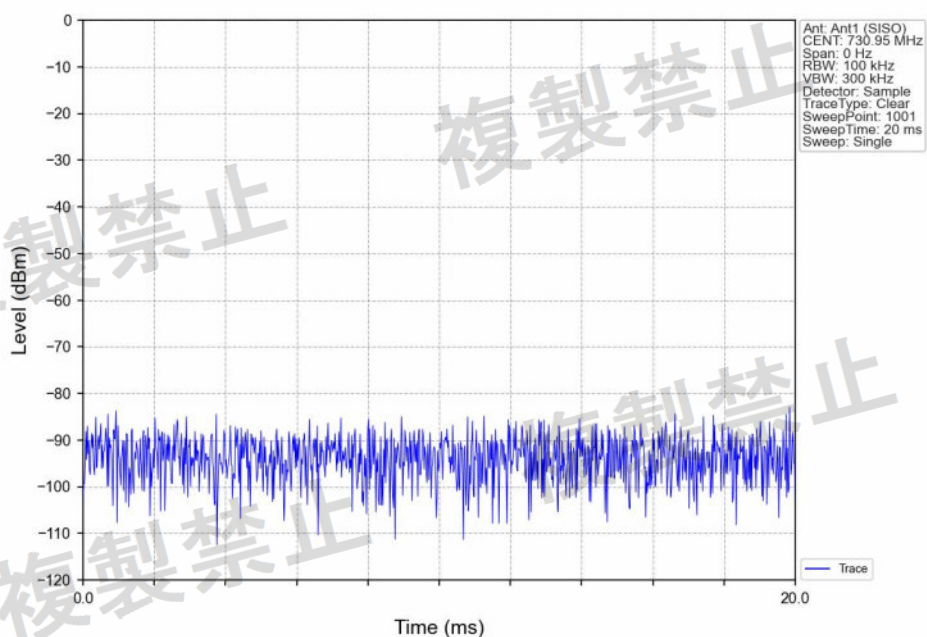


MIC: 219-259586

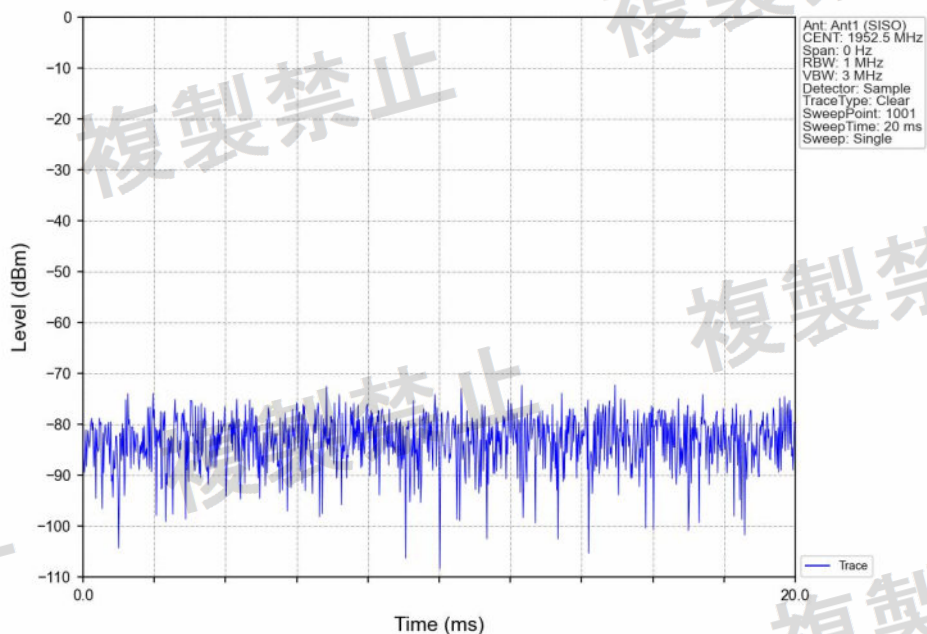


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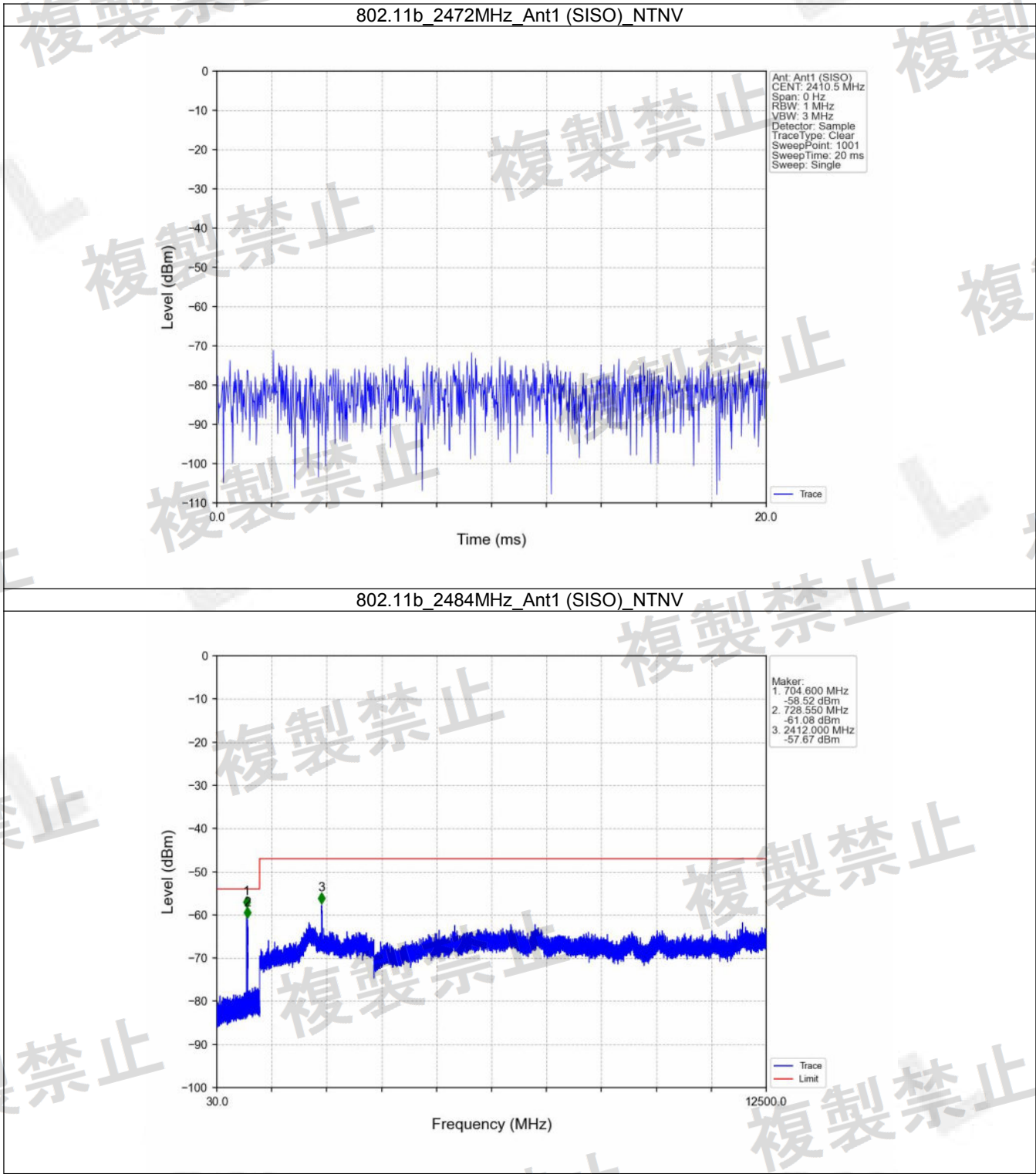
802.11b_2472MHz_Ant1 (SISO)_NTNV



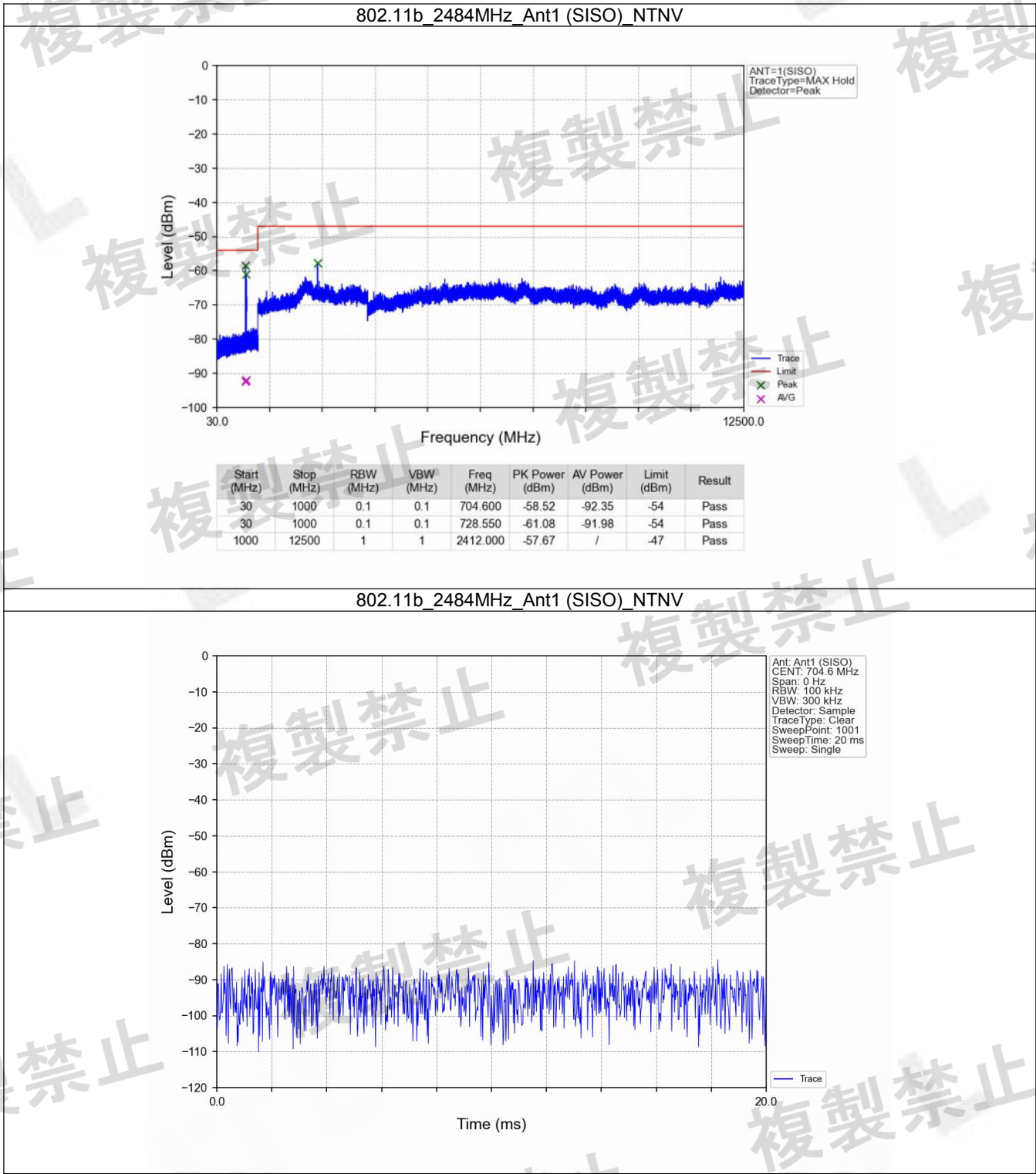
802.11b_2472MHz_Ant1 (SISO)_NTNV



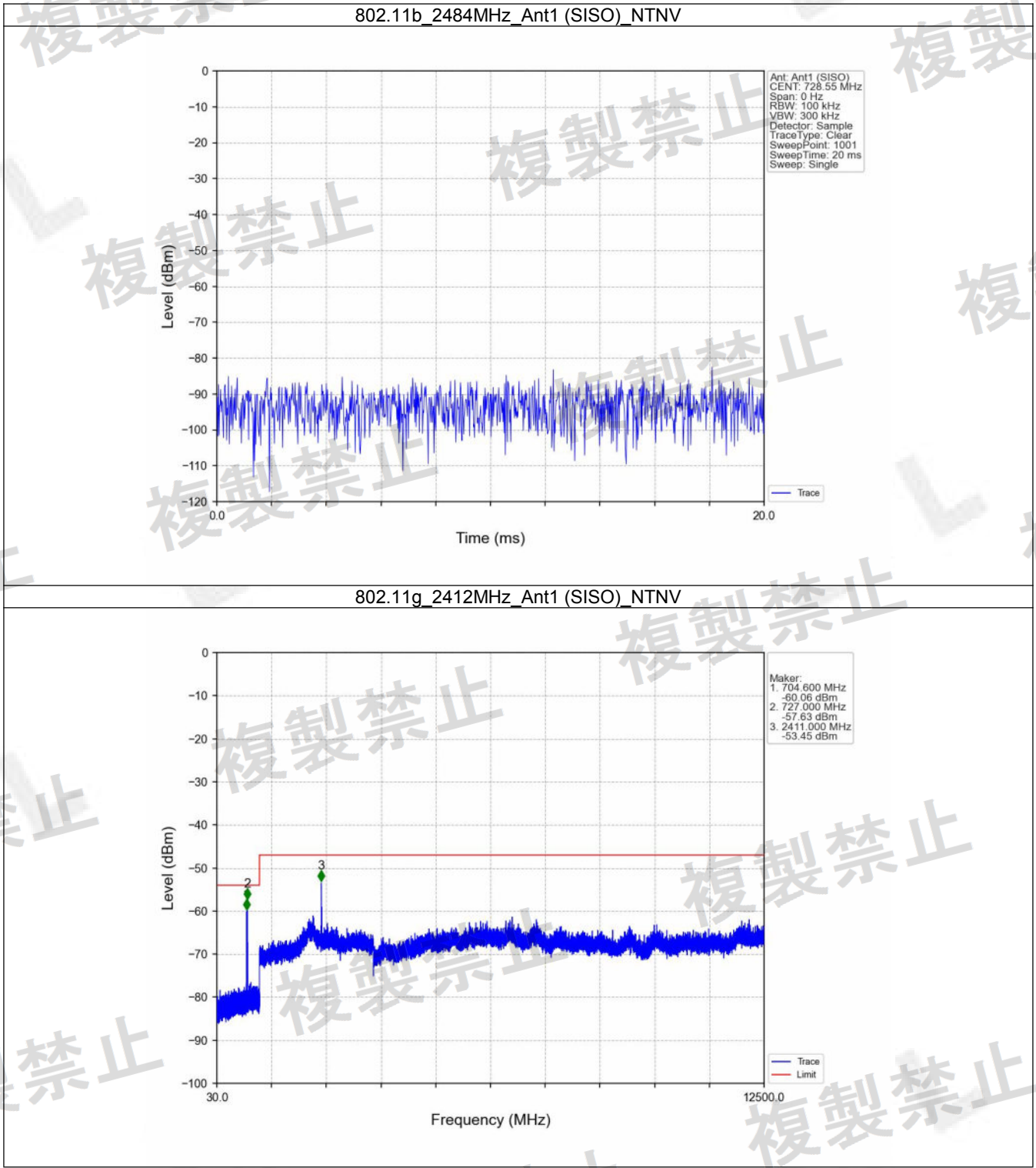
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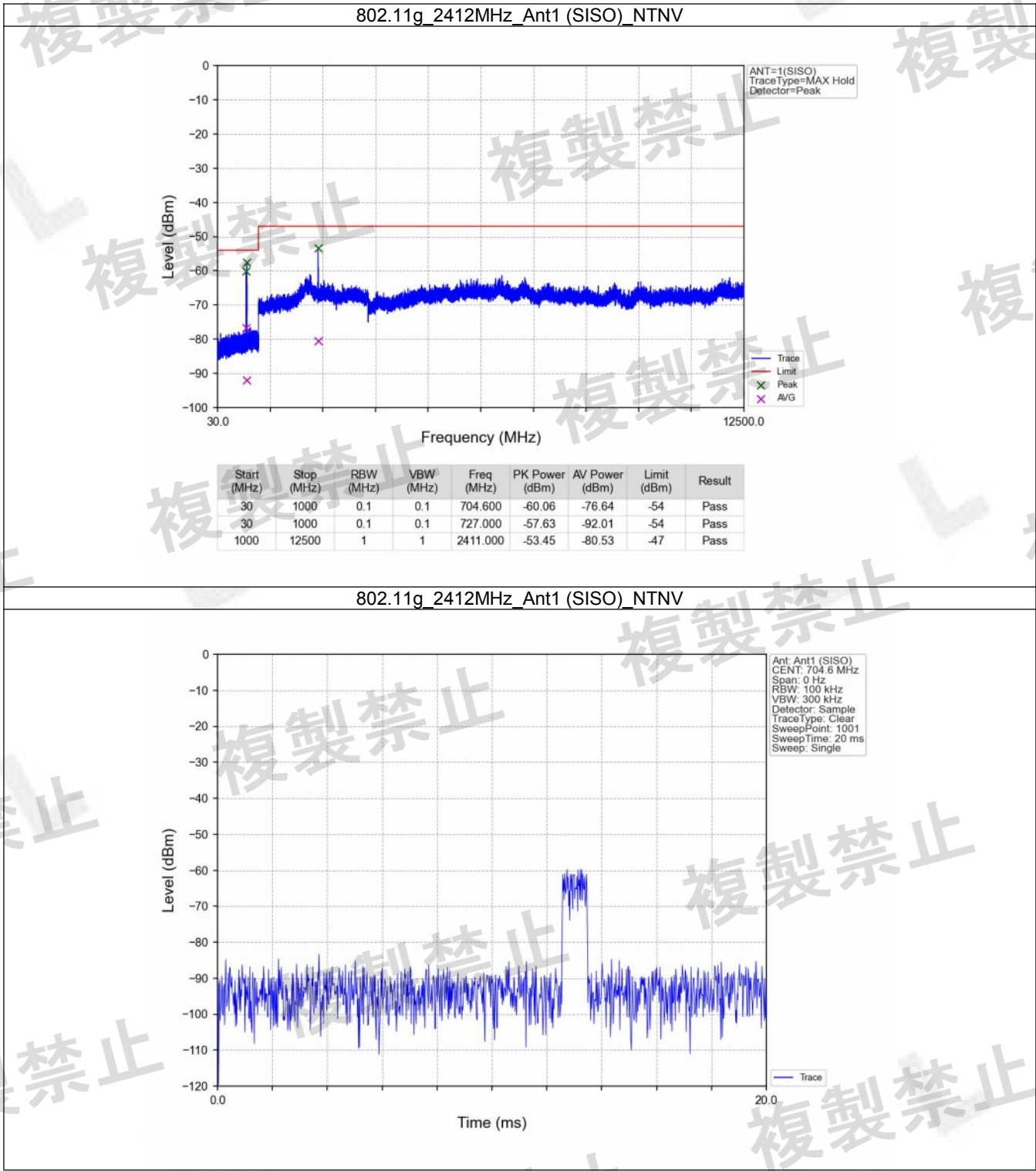
MIC: 219-259586



MIC: 219-259586

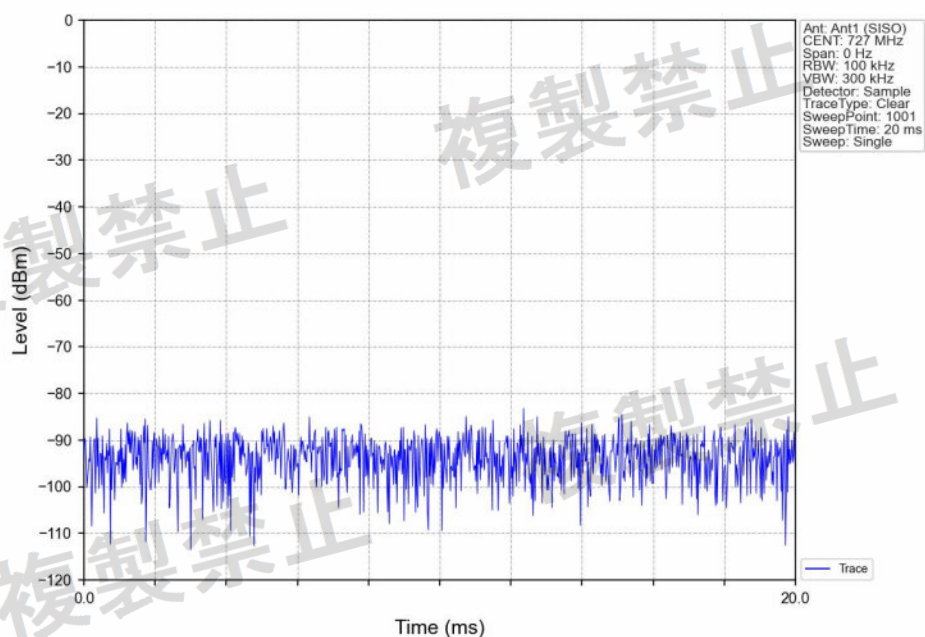


MIC: 219-259586



MIC: 219-259586

802.11g_2412MHz_Ant1 (SISO)_NTNV



802.11g_2412MHz_Ant1 (SISO)_NTNV

