

Appendix A for BT LE Test Data

Product Name: Nucleus Auto Focus Adapter Base Kit (E to PL)

Test Model: WLC-T07

Environmental Conditions

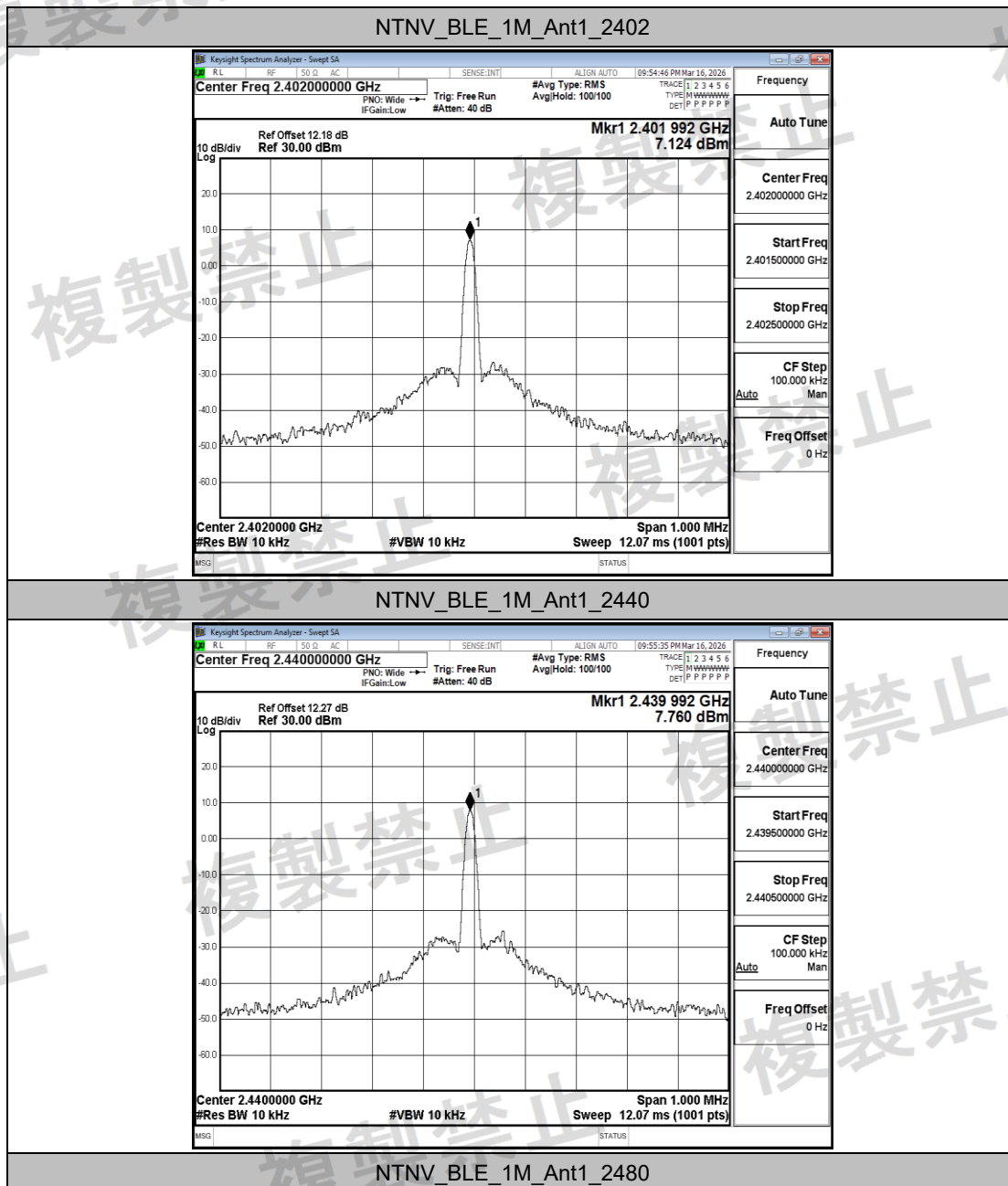
Temperature:	23.4°C
Relative Humidity:	54.8%
ATM Pressure:	100.0 kPa
Test Engineer:	Zhang hai
Supervised by:	Fengliu Tang

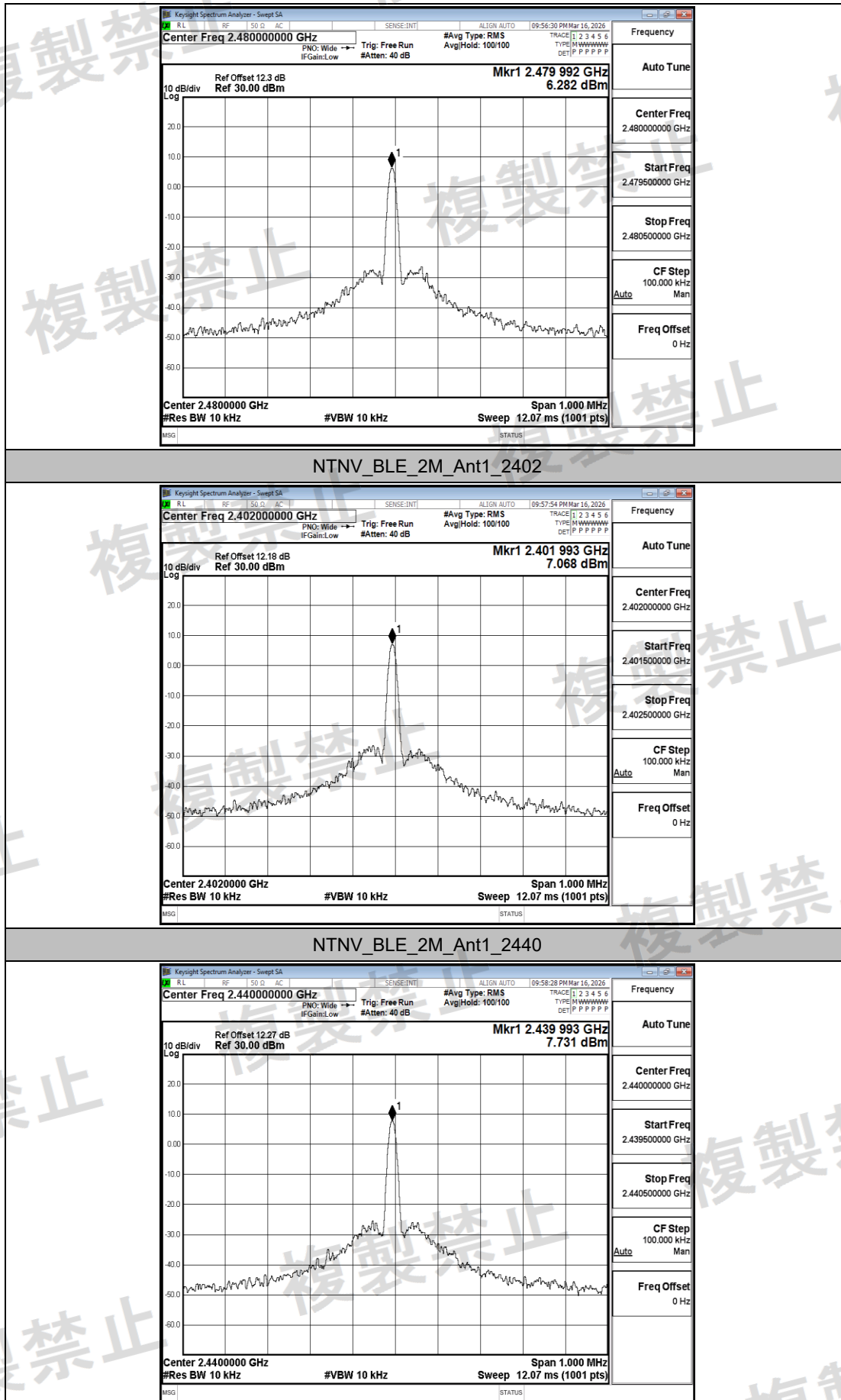
A.1 Frequency Error

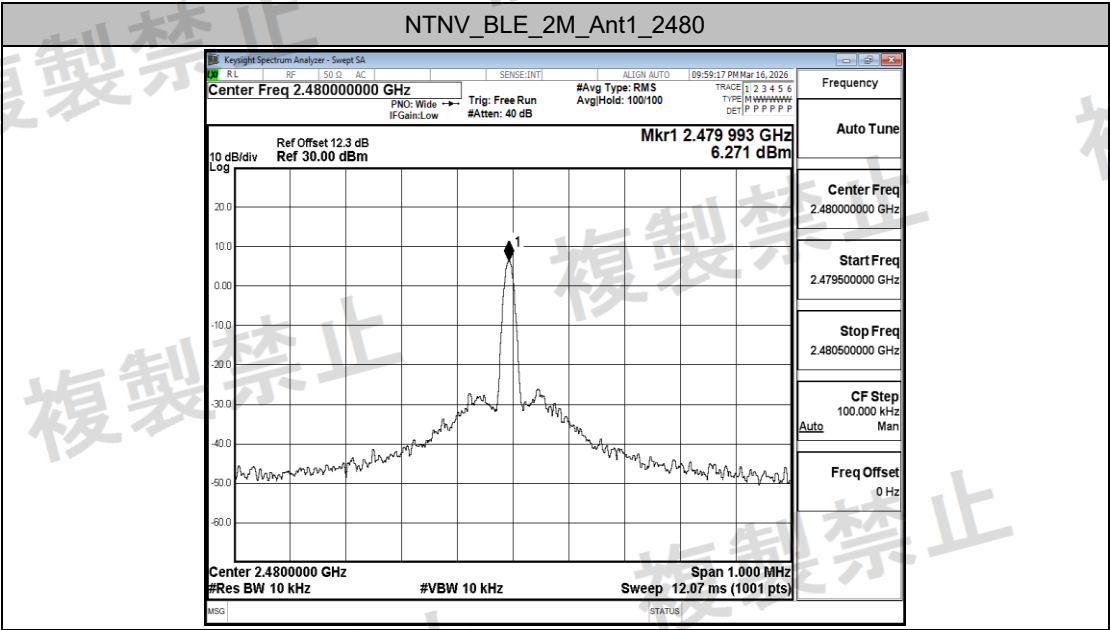
Test Result

TestCondition	TestMode	Antenna	Freq(MHz)	Result[ppm]	Limit[ppm]	Verdict
NTNV	BLE_1M	Ant1	2402	-3.33056	±50	PASS
			2440	-3.27869	±50	PASS
			2480	-3.22581	±50	PASS
	BLE_2M	Ant1	2402	-2.91424	±50	PASS
			2440	-2.86885	±50	PASS
			2480	-2.82258	±50	PASS

Test Graphs







A.2 Antenna Power

Test Result

Antenna Power							
TestCondition	TestMode	Antenna	Freq(MHz)	Result(dBm)	Result(mW)	Limit(mW)	Verdict
NTNV	BLE_1M	Ant1	2402	8.57	7.1945	≤10	PASS
			2440	9.03	7.9983	≤10	PASS
			2480	9.27	8.4528	≤10	PASS
	BLE_2M	Ant1	2404	8.29	6.7453	≤10	PASS
			2440	8.48	7.0469	≤10	PASS
			2478	8.66	7.3451	≤10	PASS

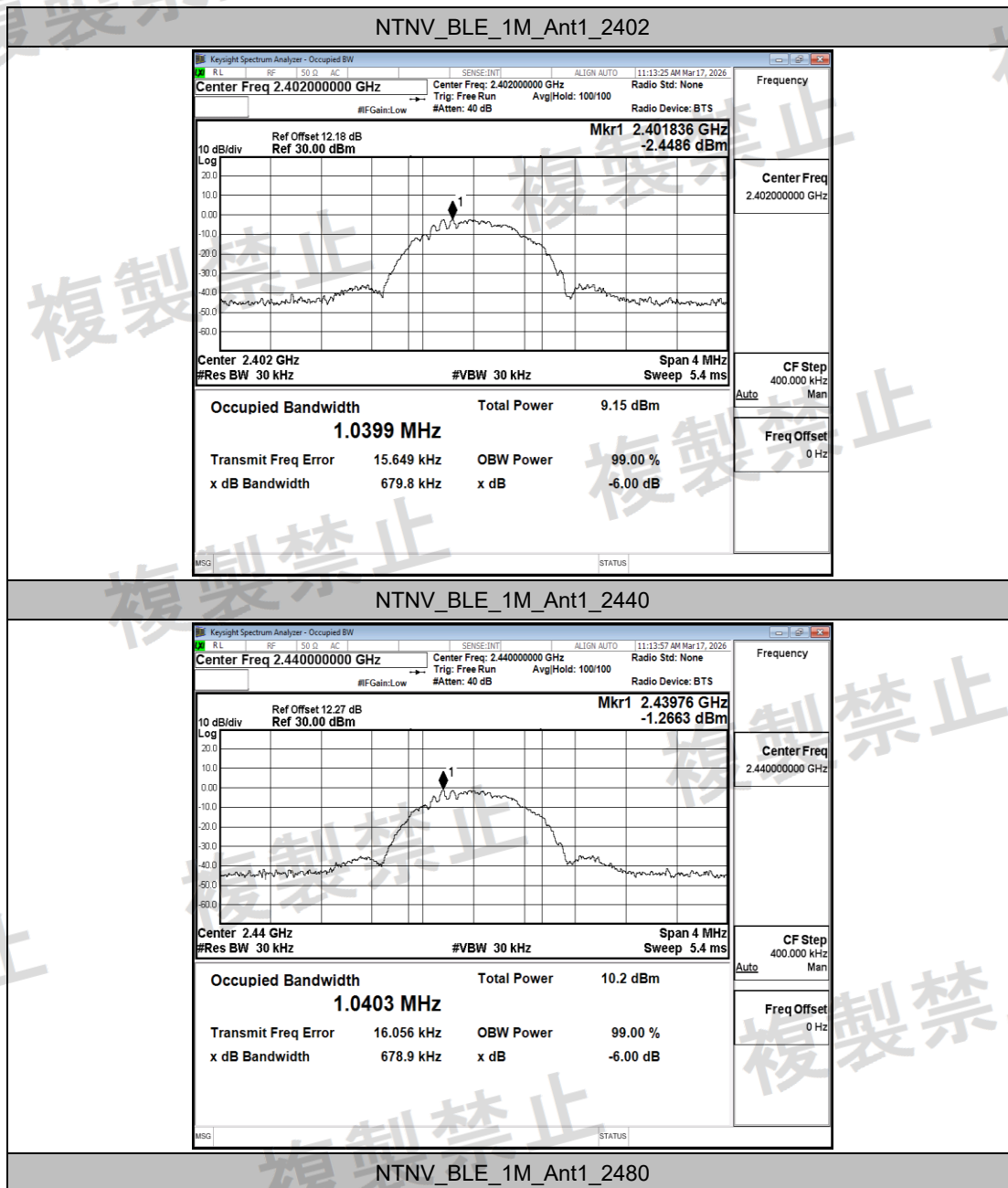
Tolerance								
Test Condition	Test Mode	Antenna	Freq(MHz)	Power (mW)	RatedPower (mW)	Result (%)	Limit (%)	Verdict
NTNV	BLE_1M	Ant1	2402	7.1945	8.0	-10.07	+20	PASS
			2440	7.9983	8.0	-0.02	+20	PASS
			2480	8.4528	8.0	5.66	+20	PASS
	BLE_2M	Ant1	2404	6.7453	8.0	-15.68	+20	PASS
			2440	7.0469	8.0	-11.91	+20	PASS
			2478	7.3451	8.0	-8.19	+20	PASS

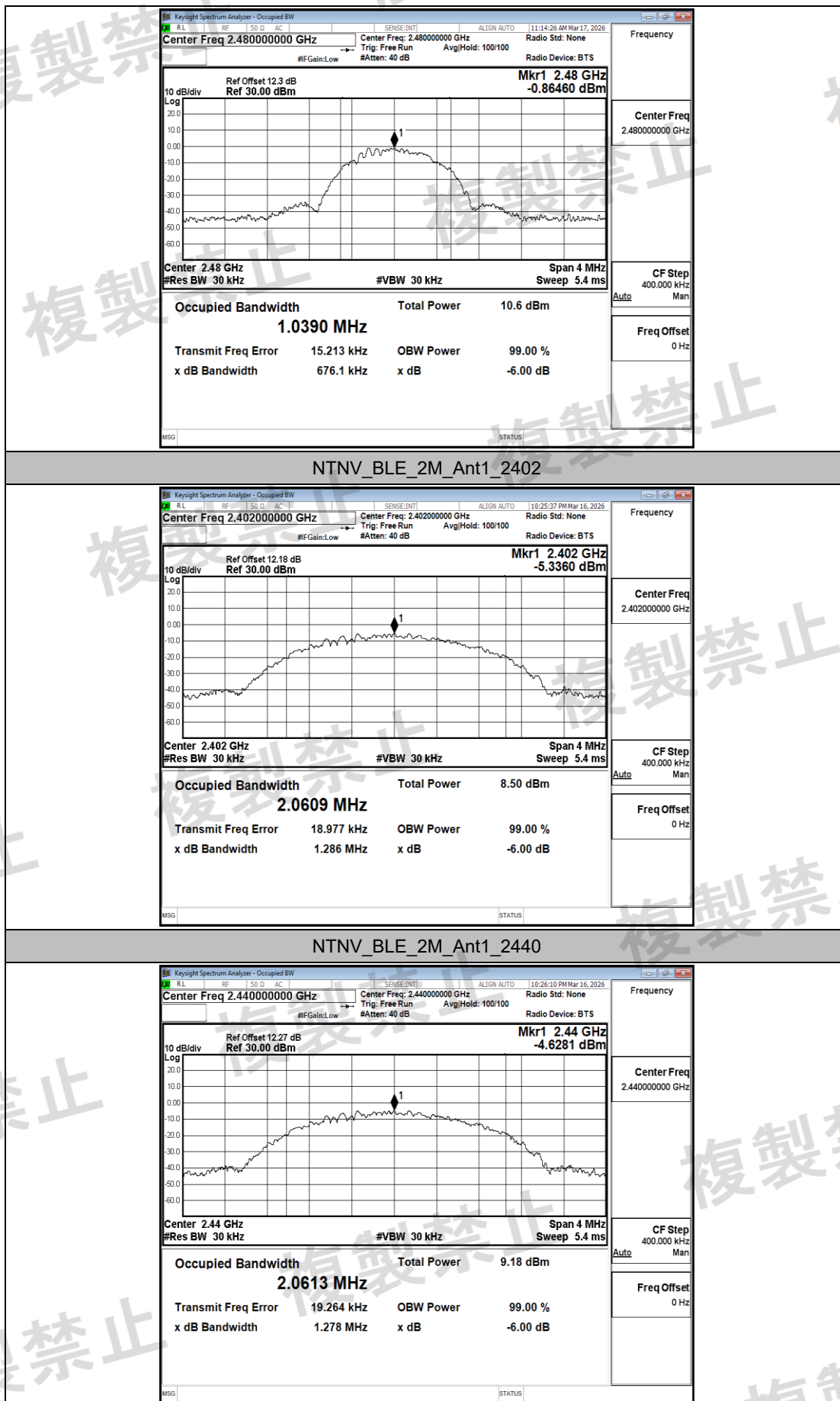
A.3 Occupied Bandwidth

Test Result

TestCondition	TestMode	Antenna	Freq(MHz)	Result [MHz]	Limit [MHz]	Verdict
NTNV	BLE_1M	Ant1	2402	1.040	≤26	PASS
			2440	1.040	≤26	PASS
			2480	1.039	≤26	PASS
	BLE_2M	Ant1	2402	2.061	≤26	PASS
			2440	2.061	≤26	PASS
			2480	2.058	≤26	PASS

Test Graphs

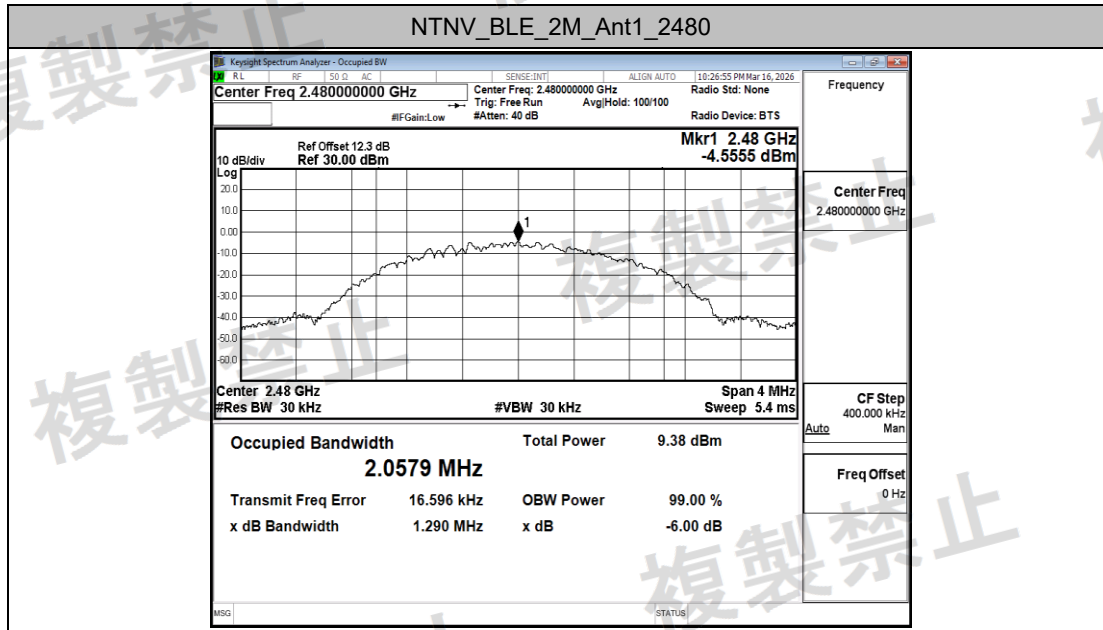




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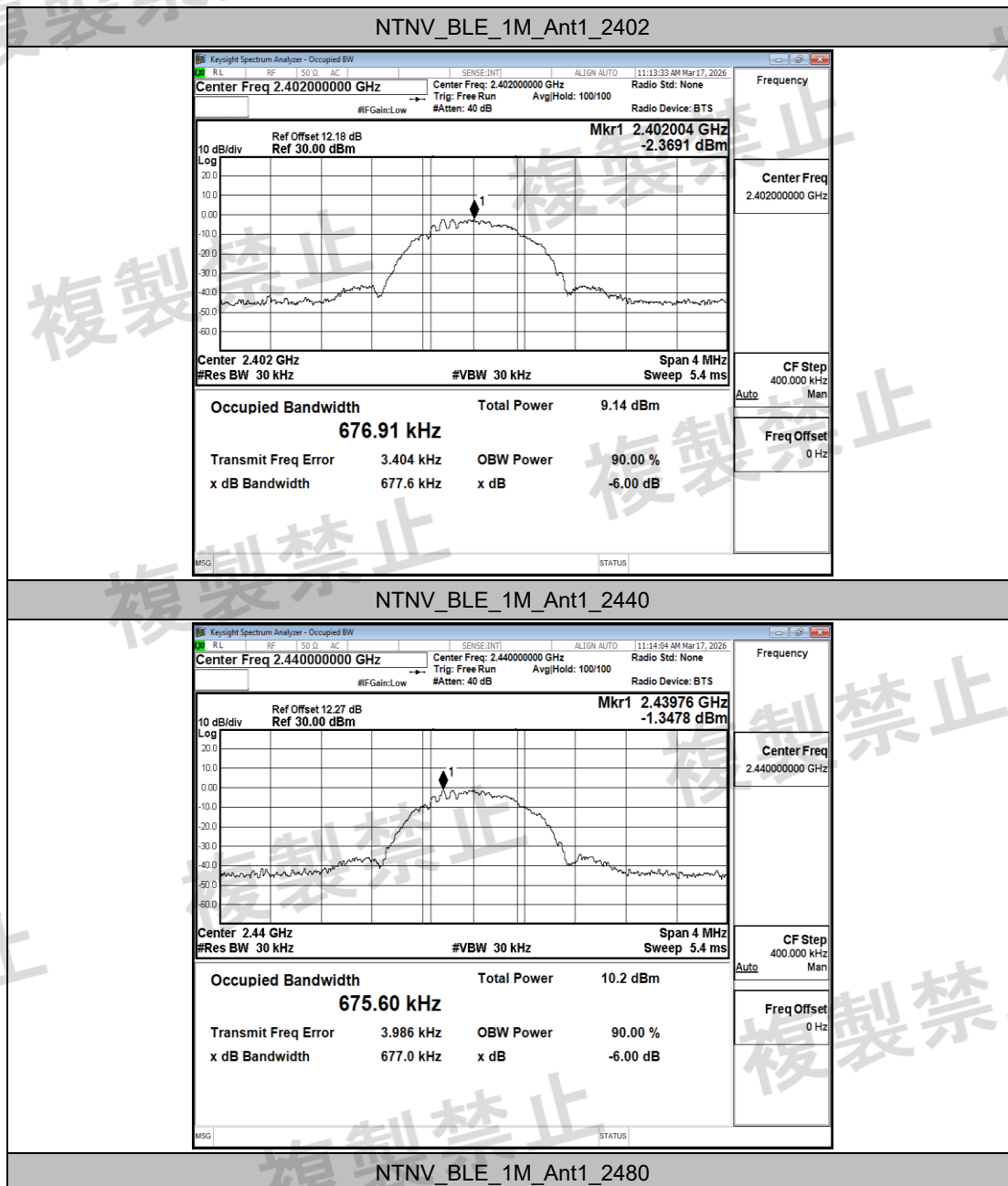


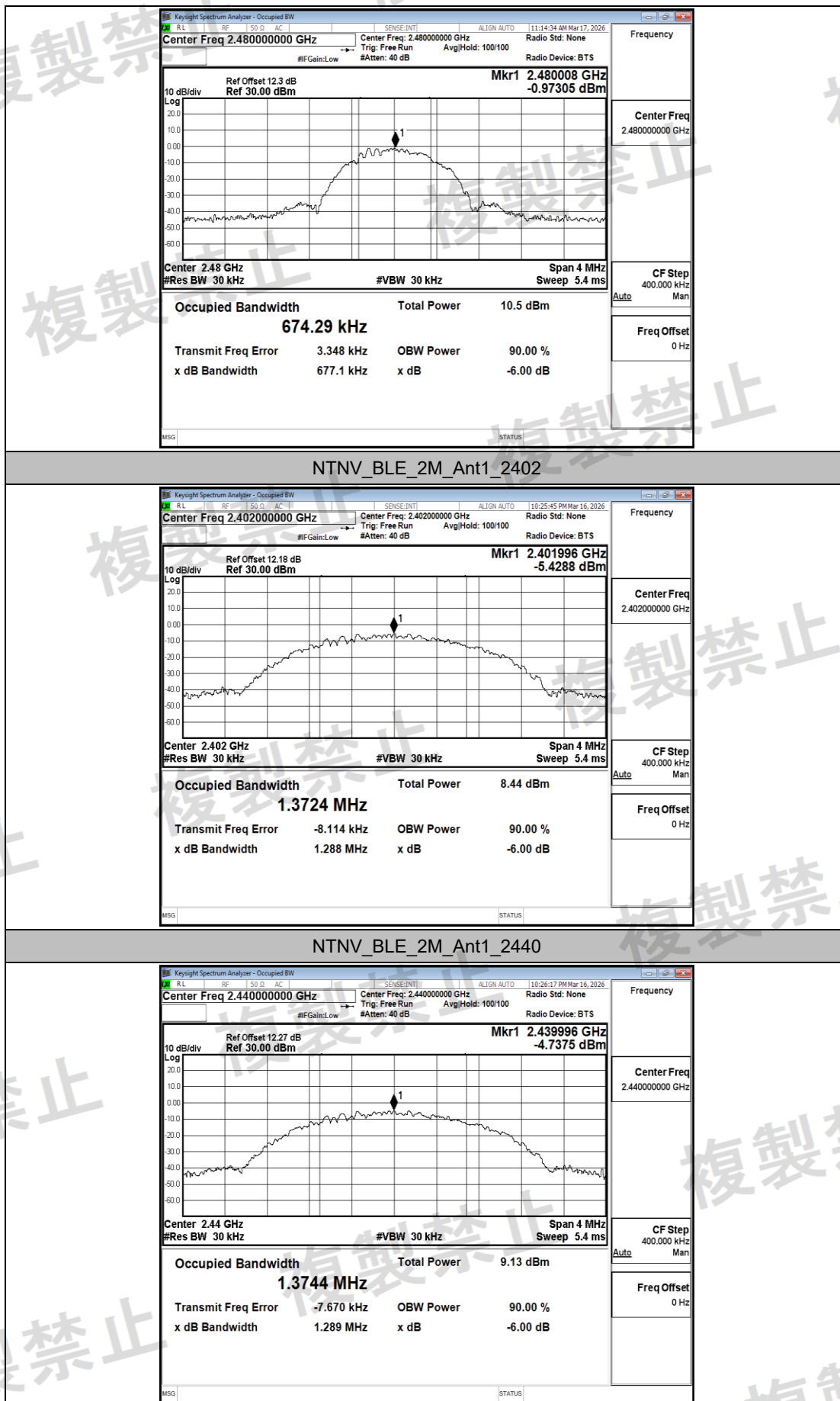
A.4 Spread Bandwidth

Test Result

TestCondition	TestMode	Antenna	Freq(MHz)	Result [MHz]	Limit [MHz]	Verdict
NTNV	BLE_1M	Ant1	2402	0.677	---	PASS
			2440	0.676	---	PASS
			2480	0.674	---	PASS
	BLE_2M	Ant1	2402	1.372	---	PASS
			2440	1.374	---	PASS
			2480	1.374	---	PASS

Test Graphs

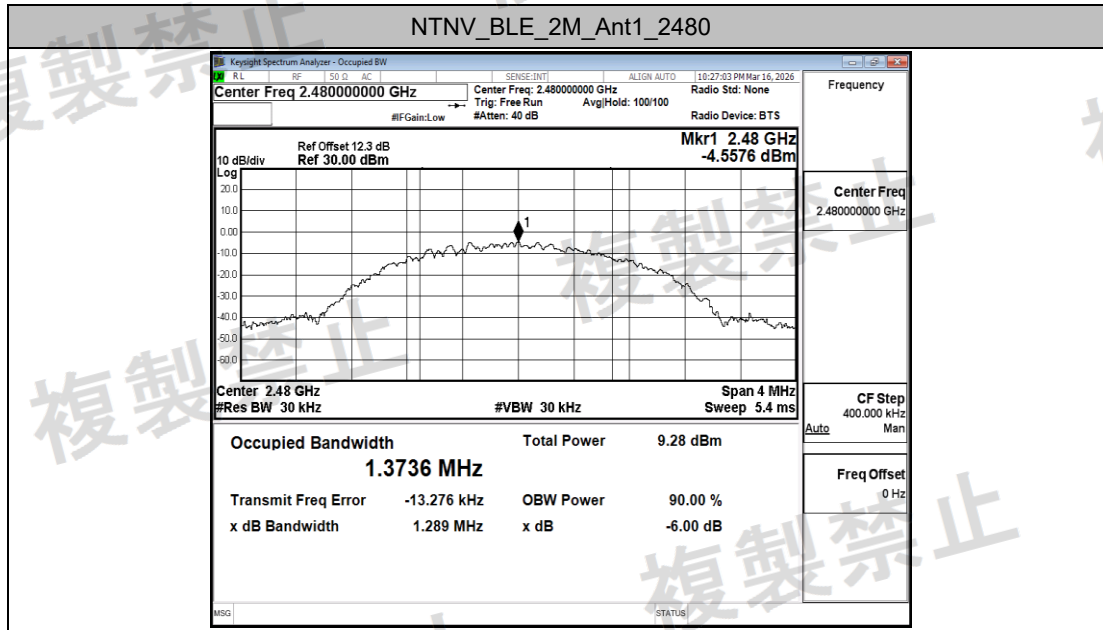




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A.5 Spurious Emission of TX

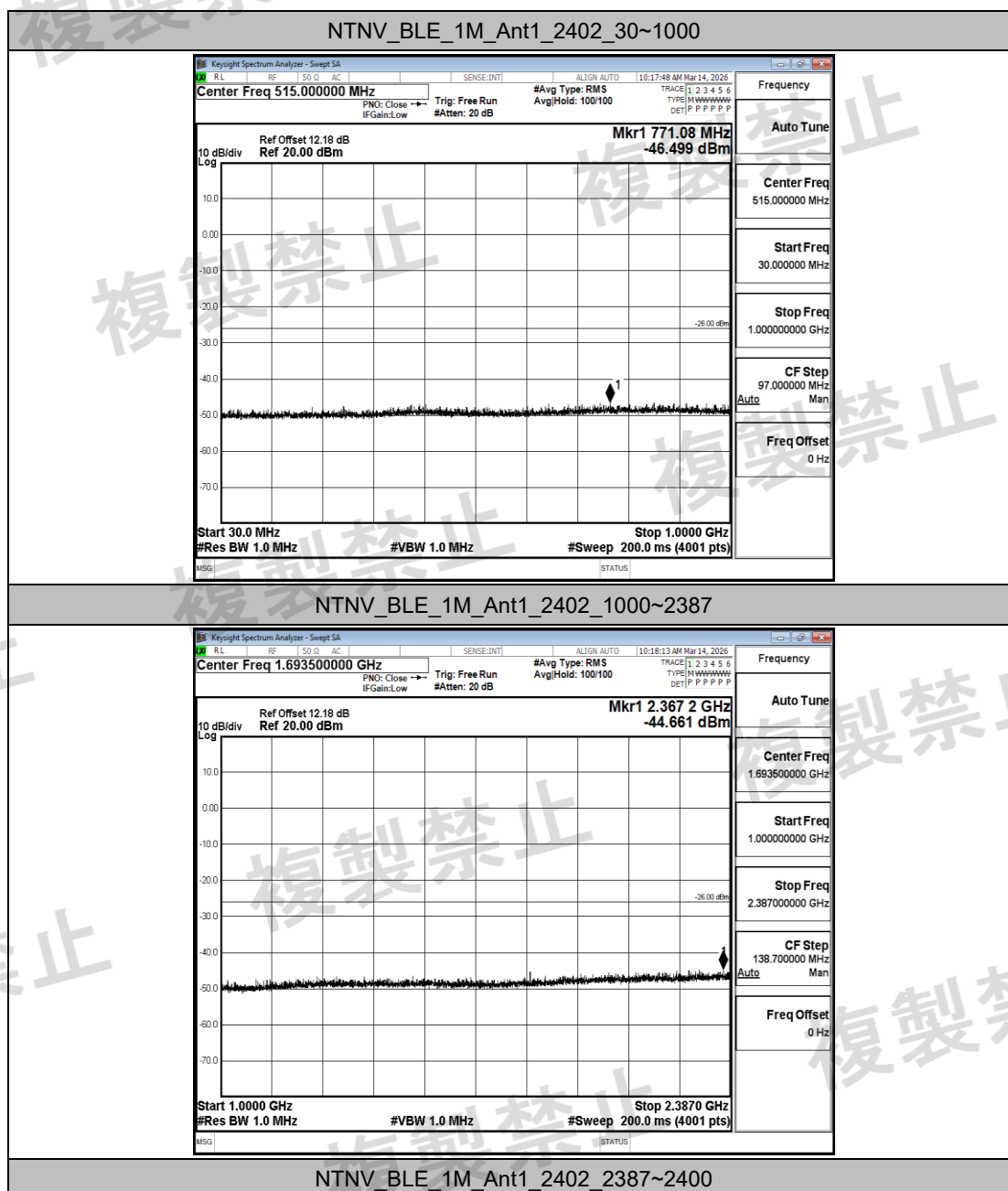
Test Result

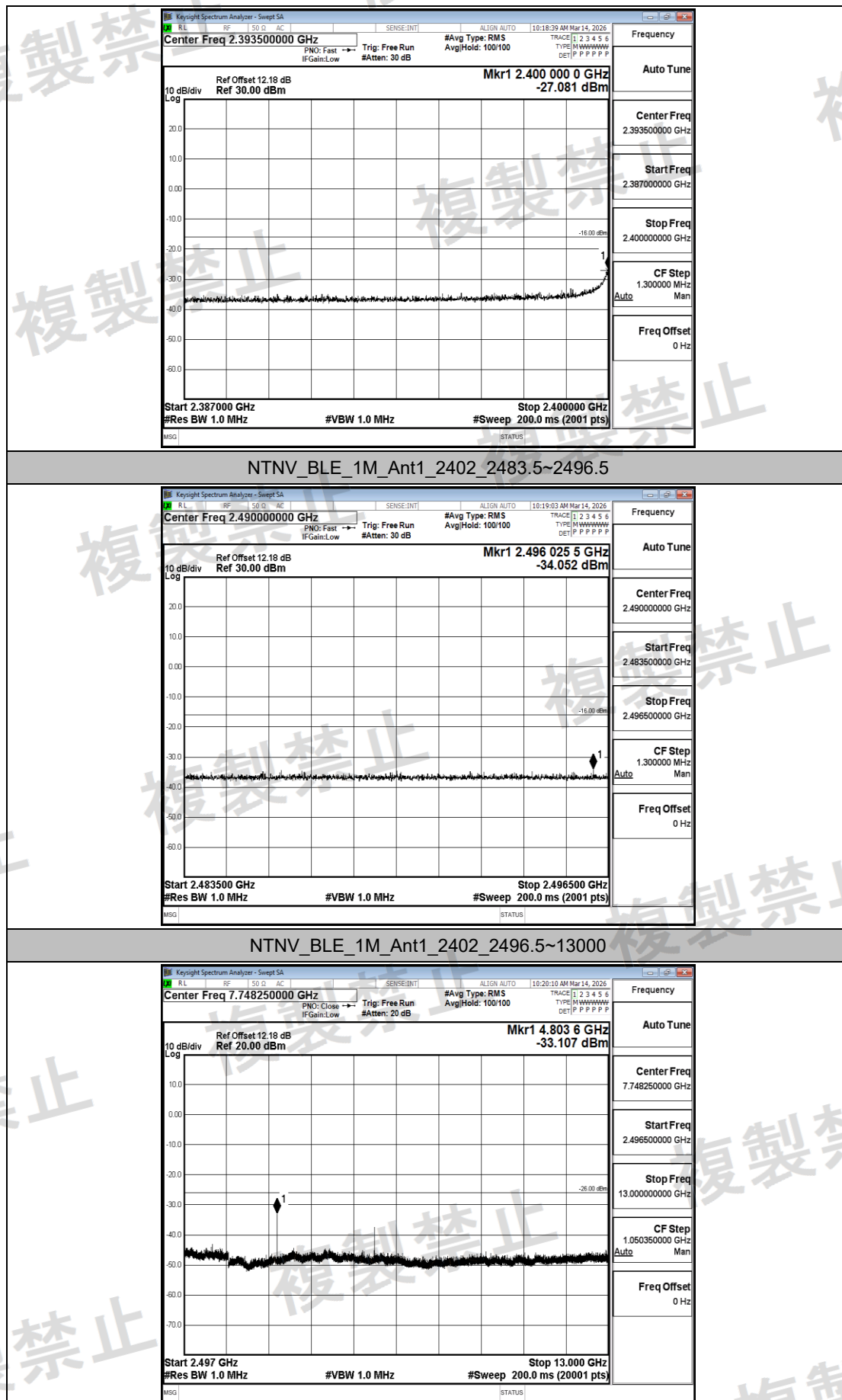
TestCondition	TestMode	Antenna	Freq(M Hz)	Freq.Range [MHz]	Freq. [MHz]	Result [dBm]	Limit [dBm]	Result [μW]	Limit [μW]	Verdict
NTNV	BLE_1M	Ant1	2402	30~1000	771.08	-46.50	≤-26	0.02239	≤2.5	PASS
				1000~2387	2367.24	-44.66	≤-26	0.03420	≤2.5	PASS
				2387~2400	2400.00	-27.08	≤-16	1.95884	≤25	PASS
				2483.5~2496.5	2496.03	-34.05	≤-16	0.39355	≤25	PASS
				2496.5~13000	4803.59	-33.11	≤-26	0.48865	≤2.5	PASS
			2440	30~1000	887.48	-46.42	≤-26	0.02280	≤2.5	PASS
				1000~2387	2315.22	-44.31	≤-26	0.03707	≤2.5	PASS
				2387~2400	2392.45	-34.12	≤-16	0.38726	≤25	PASS
				2483.5~2496.5	2491.35	-34.00	≤-16	0.39811	≤25	PASS
				2496.5~13000	4880.27	-32.45	≤-26	0.56885	≤2.5	PASS
		2480		30~1000	823.46	-46.06	≤-26	0.02477	≤2.5	PASS
				1000~2387	2351.98	-44.76	≤-26	0.03342	≤2.5	PASS
				2387~2400	2392.34	-34.53	≤-16	0.35237	≤25	PASS
				2483.5~2496.5	2484.98	-33.70	≤-16	0.42658	≤25	PASS
				2496.5~13000	4959.57	-35.35	≤-26	0.29174	≤2.5	PASS
	BLE_2M	Ant1	2402	30~1000	747.32	-46.49	≤-26	0.02244	≤2.5	PASS
				1000~2387	2374.86	-45.05	≤-26	0.03126	≤2.5	PASS
				2387~2400	2400	-15.47	≤-16	28.37919	≤25	See table below
				2483.5~2496.5	2486.99	-34.70	≤-16	0.33884	≤25	PASS
				2496.5~13000	4803.07	-33.67	≤-26	0.42954	≤2.5	PASS
			2440	30~1000	889.42	-46.10	≤-26	0.02455	≤2.5	PASS
				1000~2387	2343.66	-44.29	≤-26	0.03724	≤2.5	PASS
				2387~2400	2393.31	-34.62	≤-16	0.34514	≤25	PASS
				2483.5~2496.5	2494.50	-34.09	≤-16	0.38994	≤25	PASS
				2496.5~13000	4879.22	-33.49	≤-26	0.44771	≤2.5	PASS
			2480	30~1000	845.04	-46.43	≤-26	0.02275	≤2.5	PASS
				1000~2387	2215.01	-44.51	≤-26	0.03540	≤2.5	PASS
				2387~2400	2393.12	-34.49	≤-16	0.35563	≤25	PASS
				2483.5~2496.5	2489.94	-33.87	≤-16	0.41020	≤25	PASS
				2496.5~13000	4959.05	-35.89	≤-26	0.25763	≤2.5	PASS

Test Result Step2

TestCondition	TestMode	Antenna	Freq(M Hz)	Freq. [MHz]	Result [dBm]	Limit [dBm]	Result [μW]	Limit [μW]	Verdict
NTNV	BLE_2M	Ant1	2402	2400.00	-19.55	≤-16	11.0917 5	≤25	PASS

Test Graphs

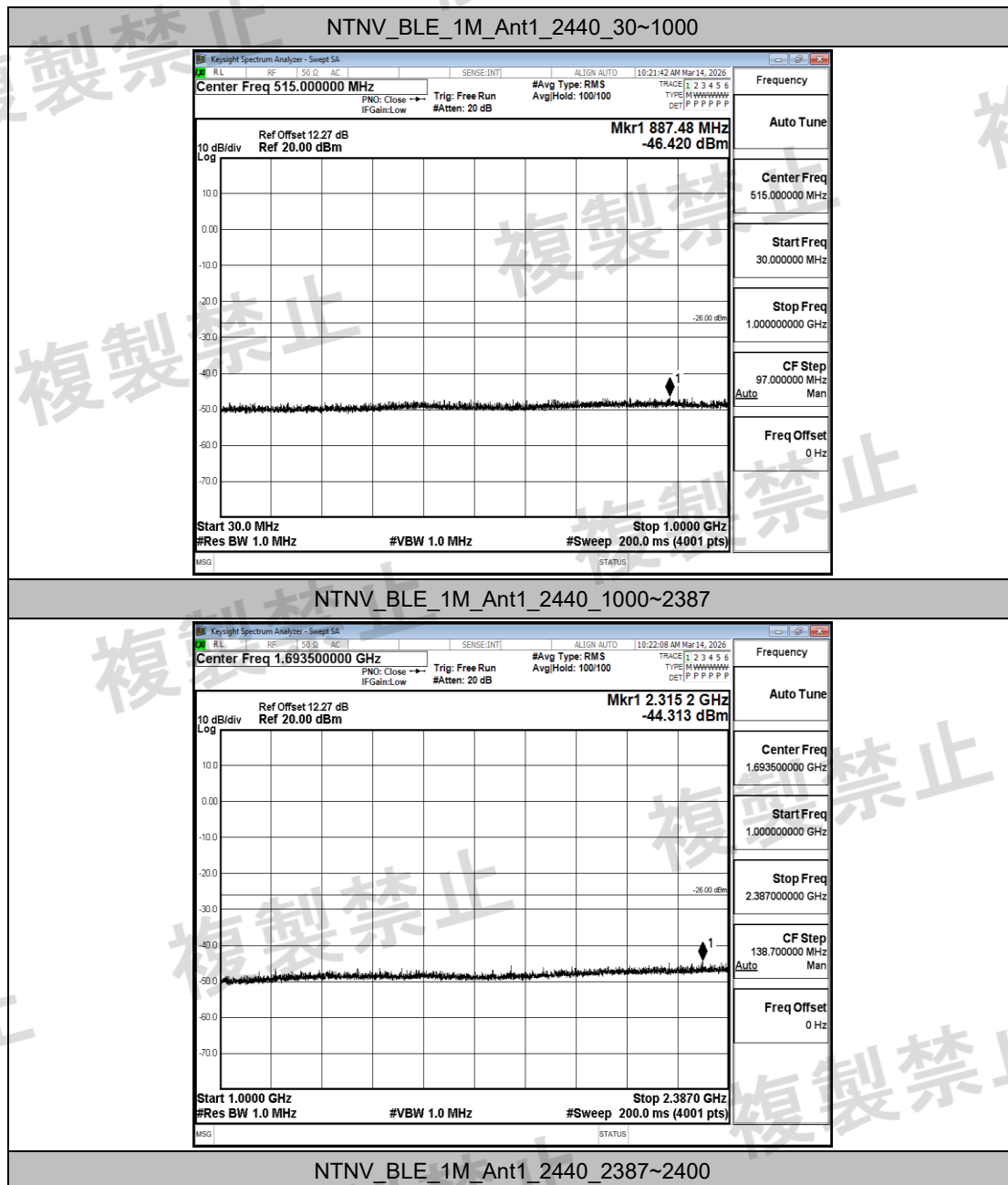


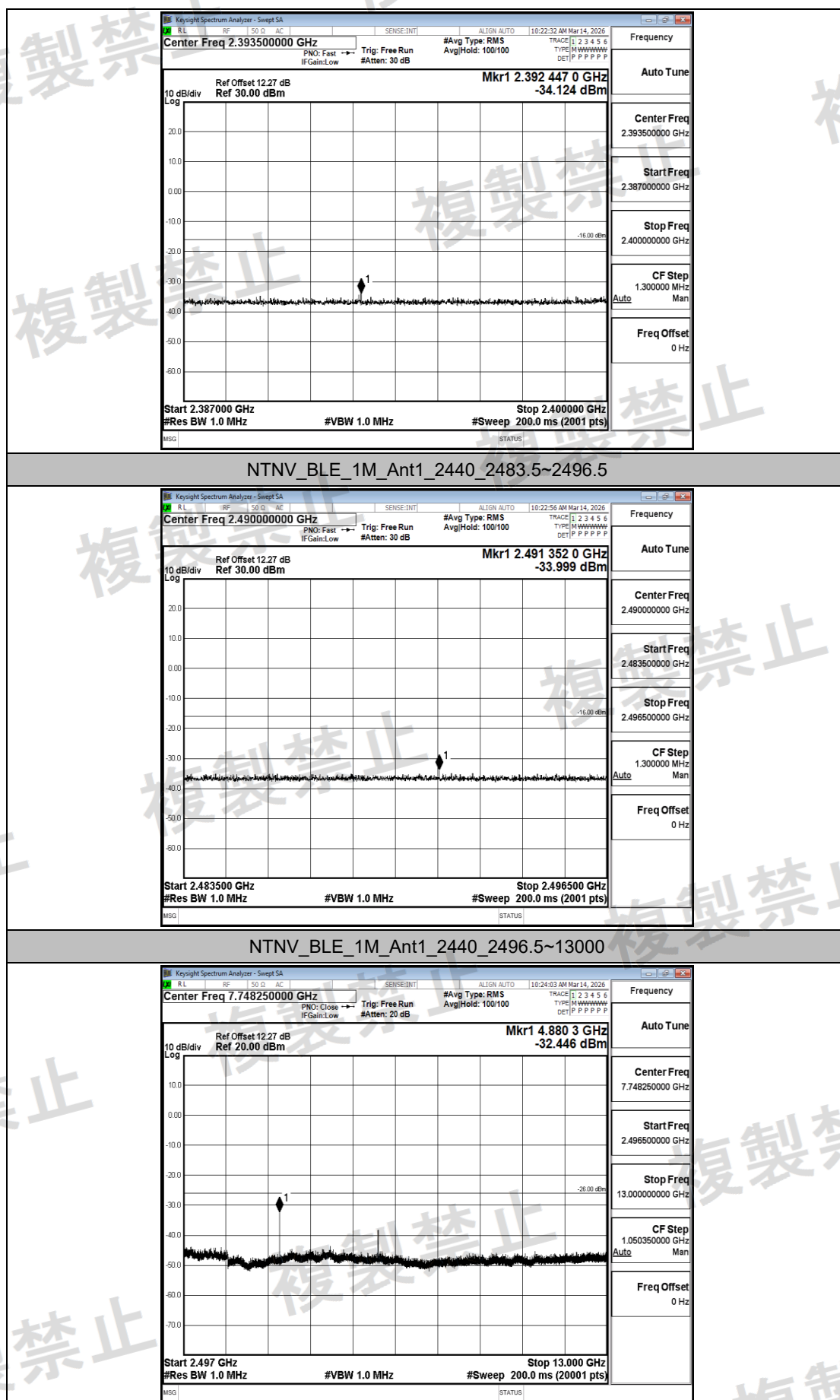


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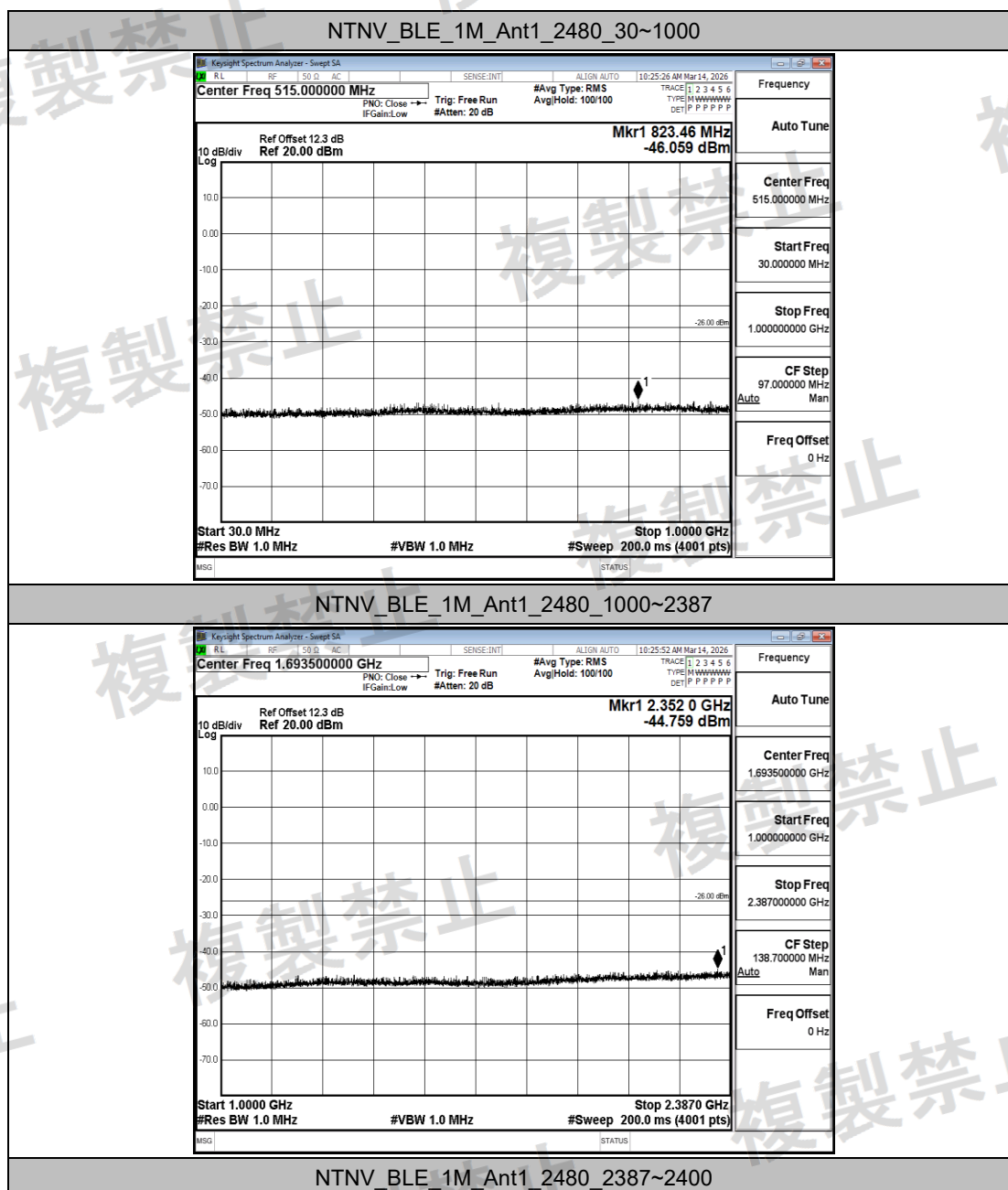


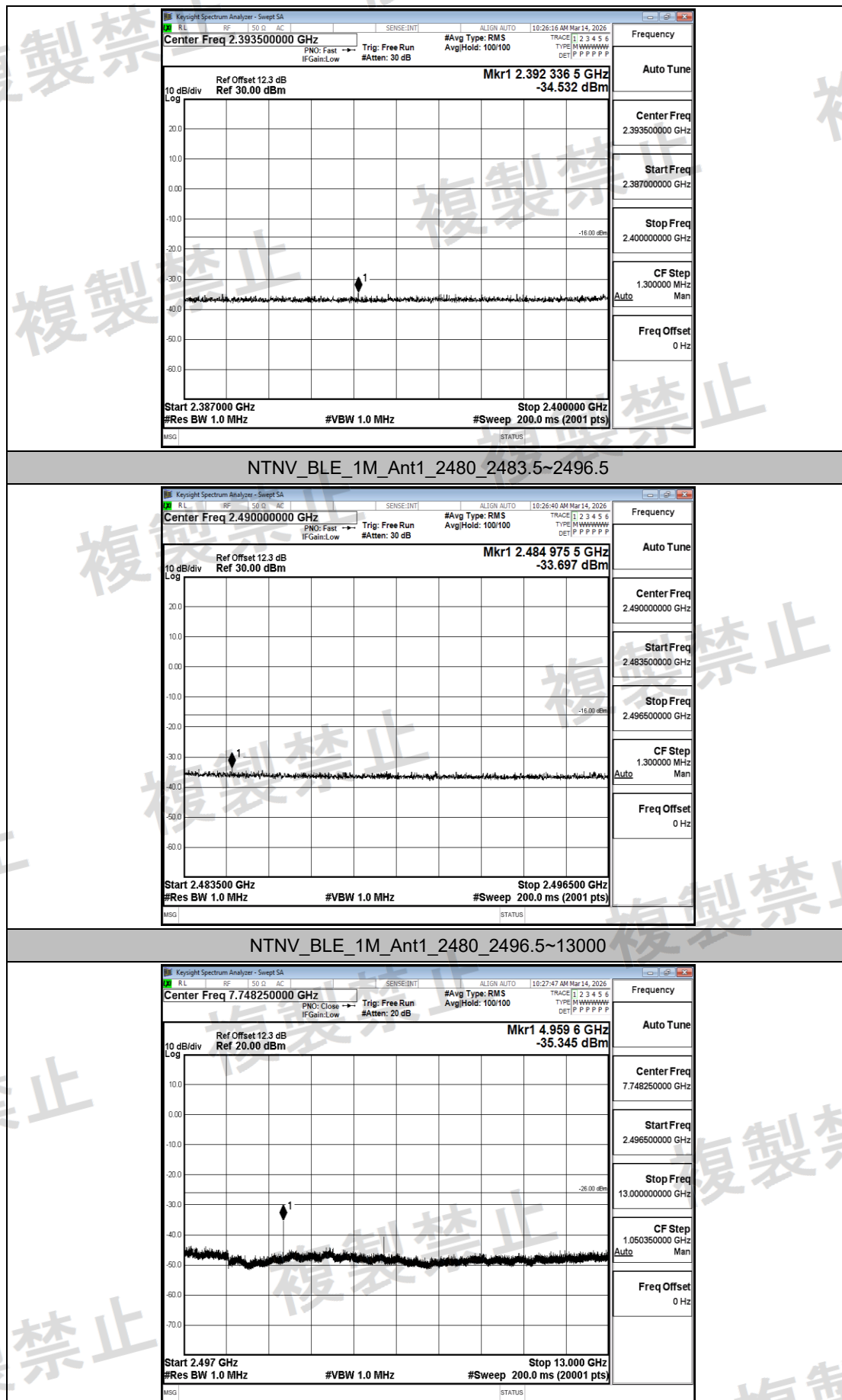


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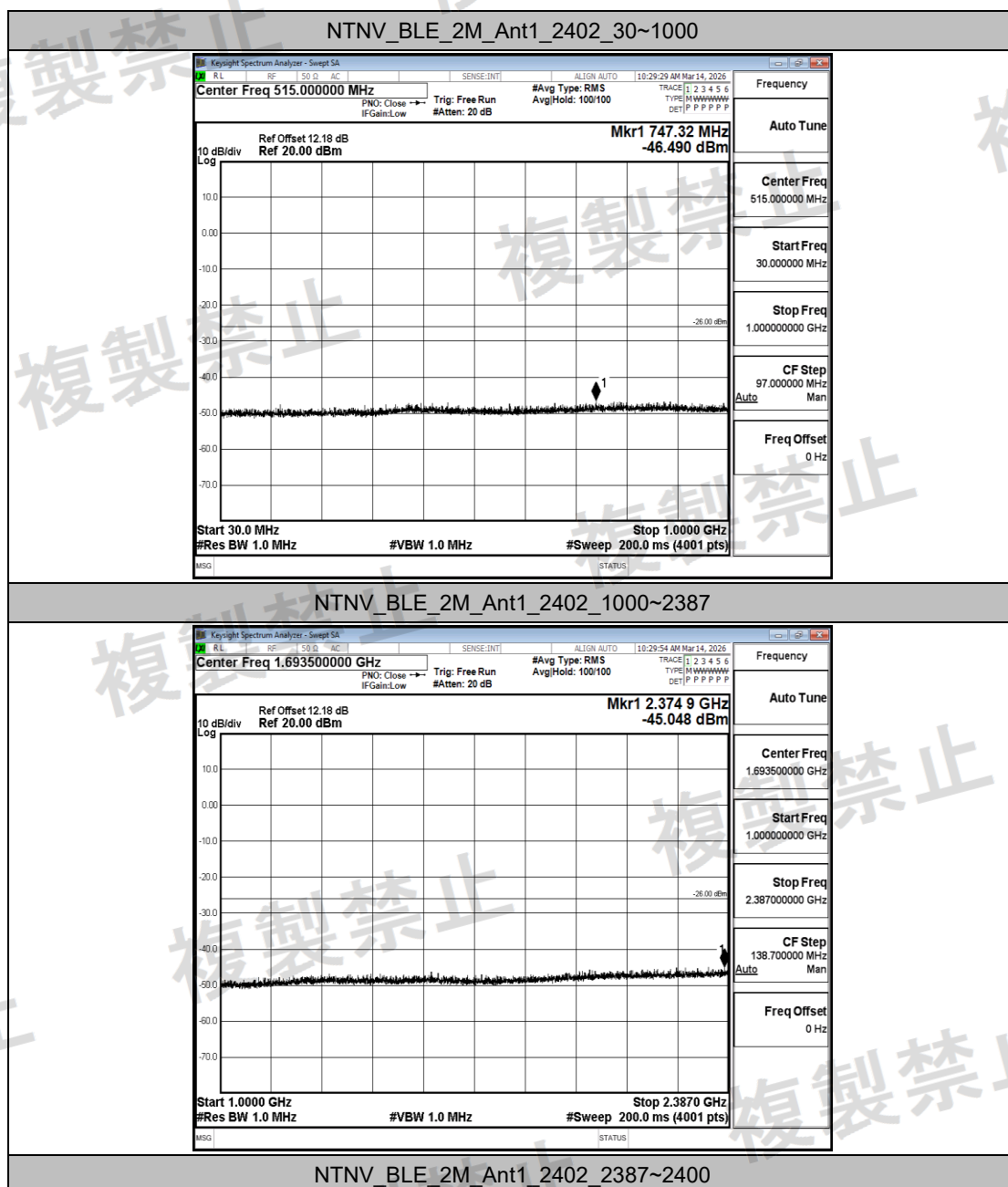


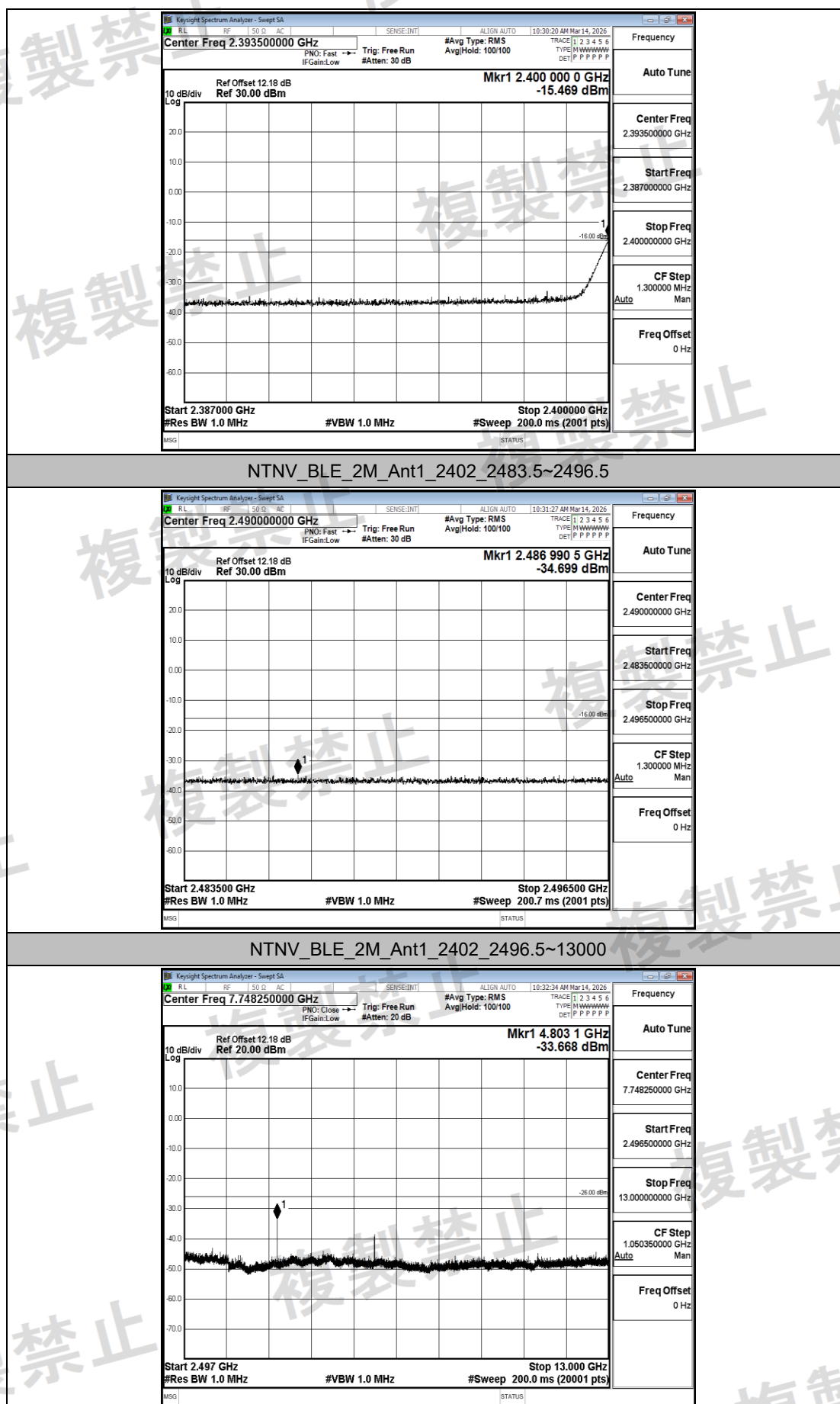


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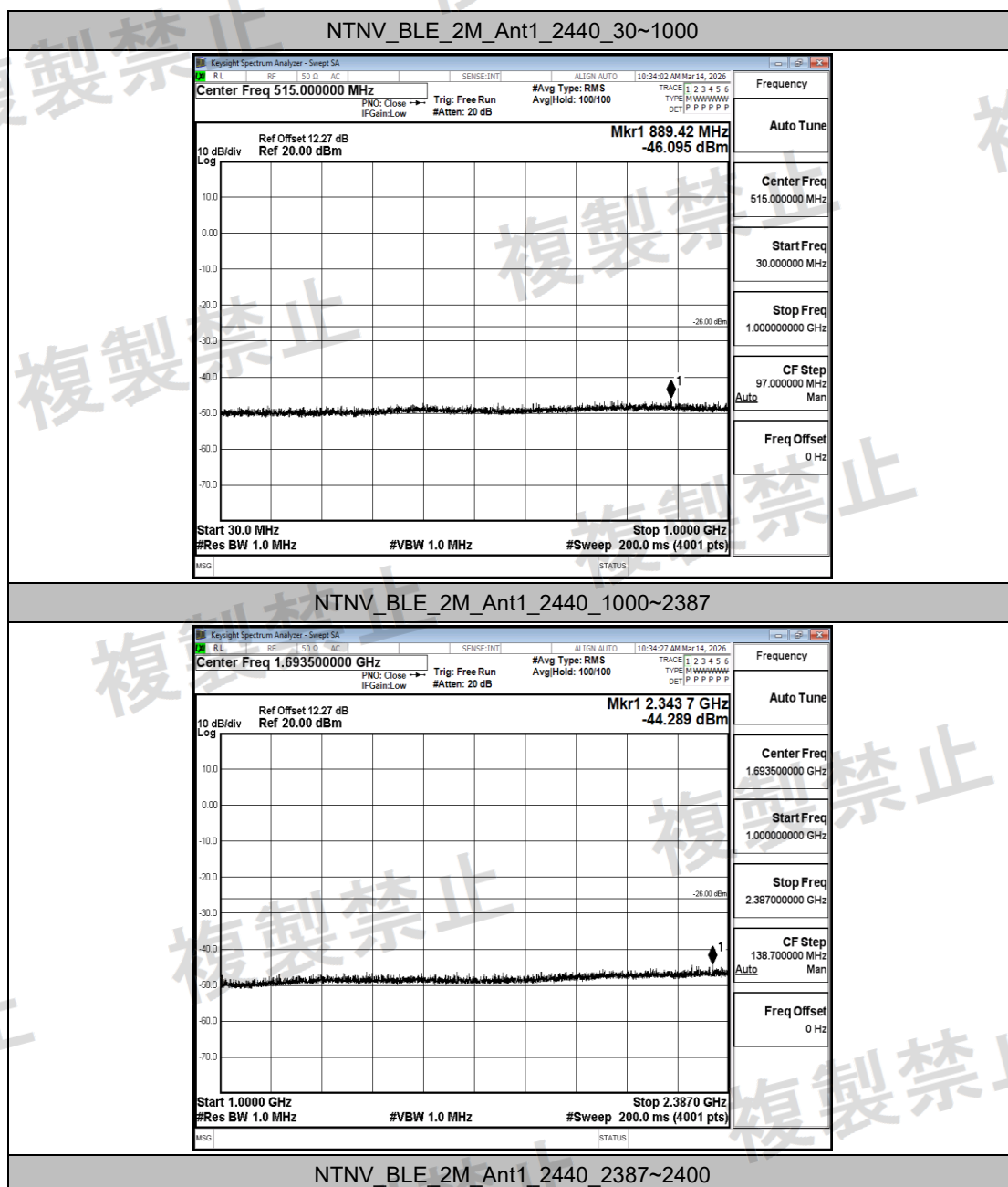




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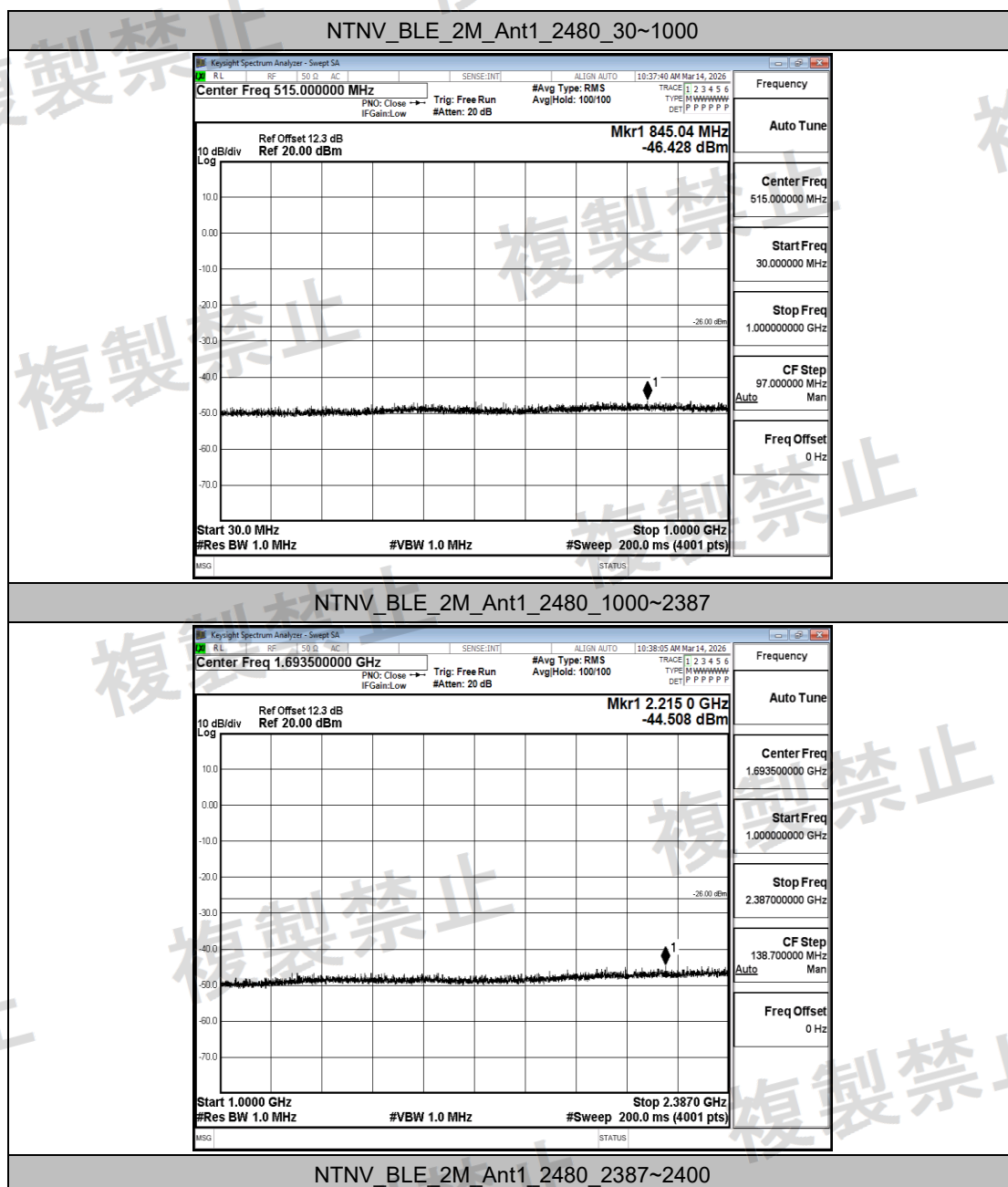


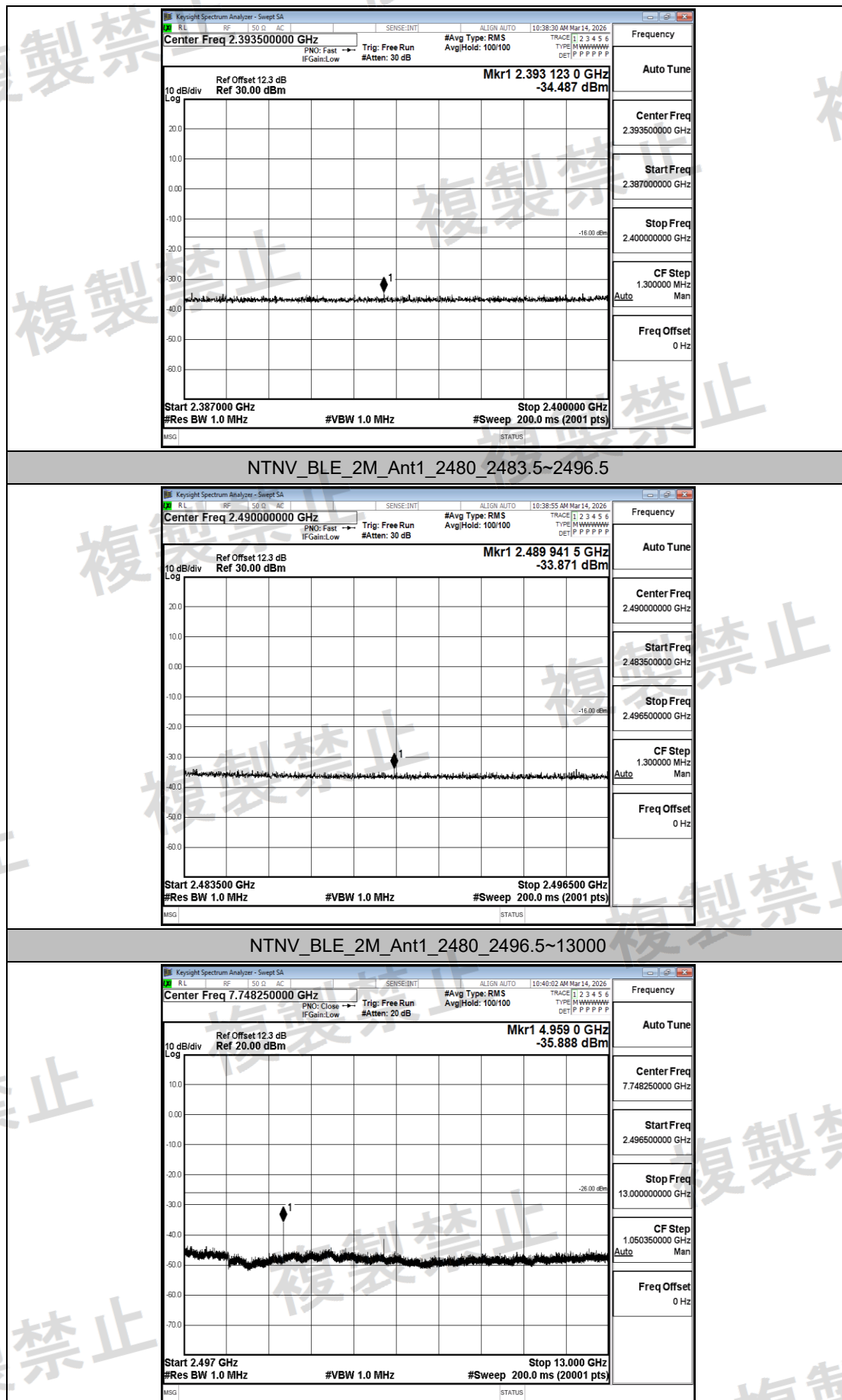


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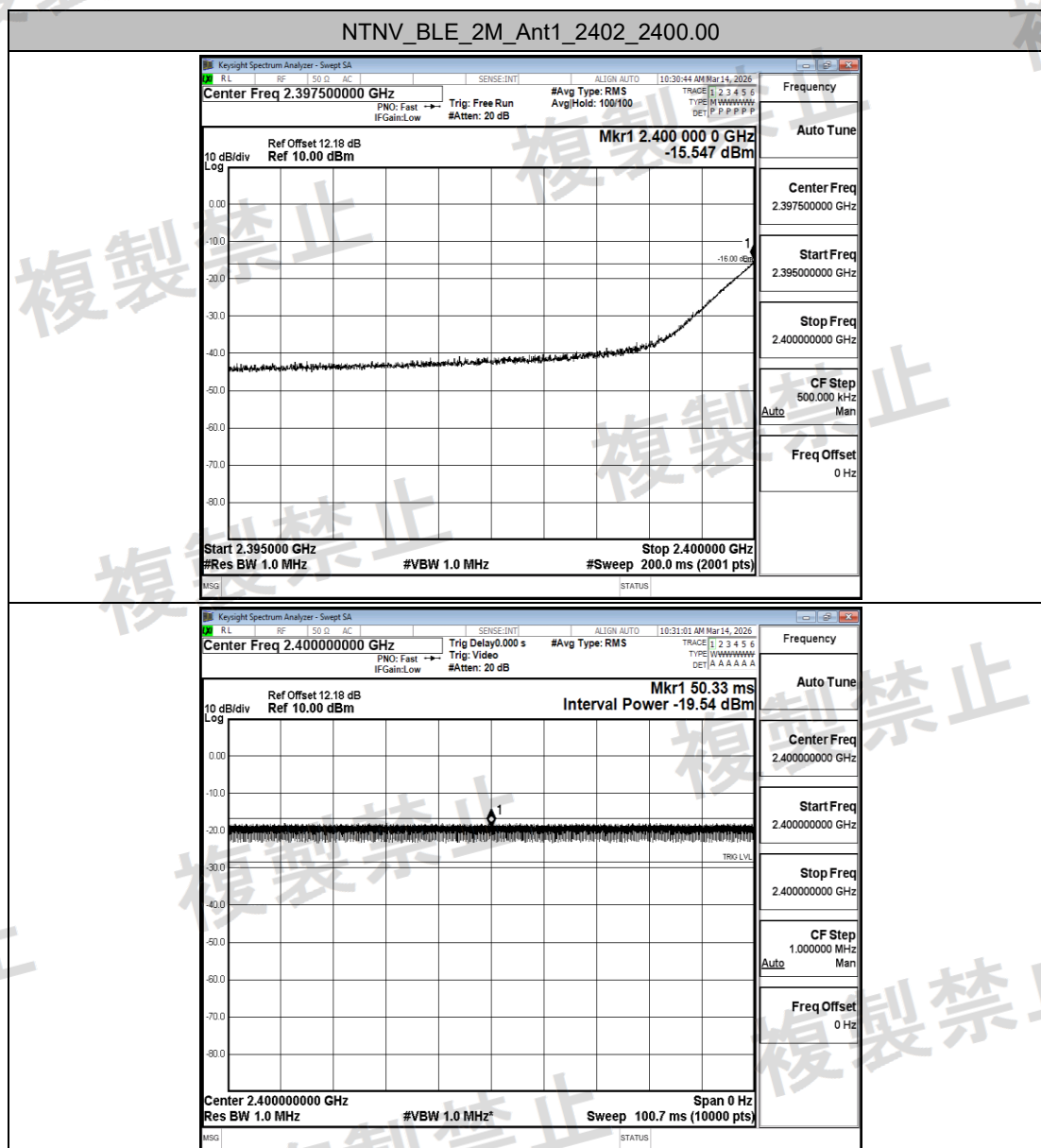


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Test Graphs_Step2

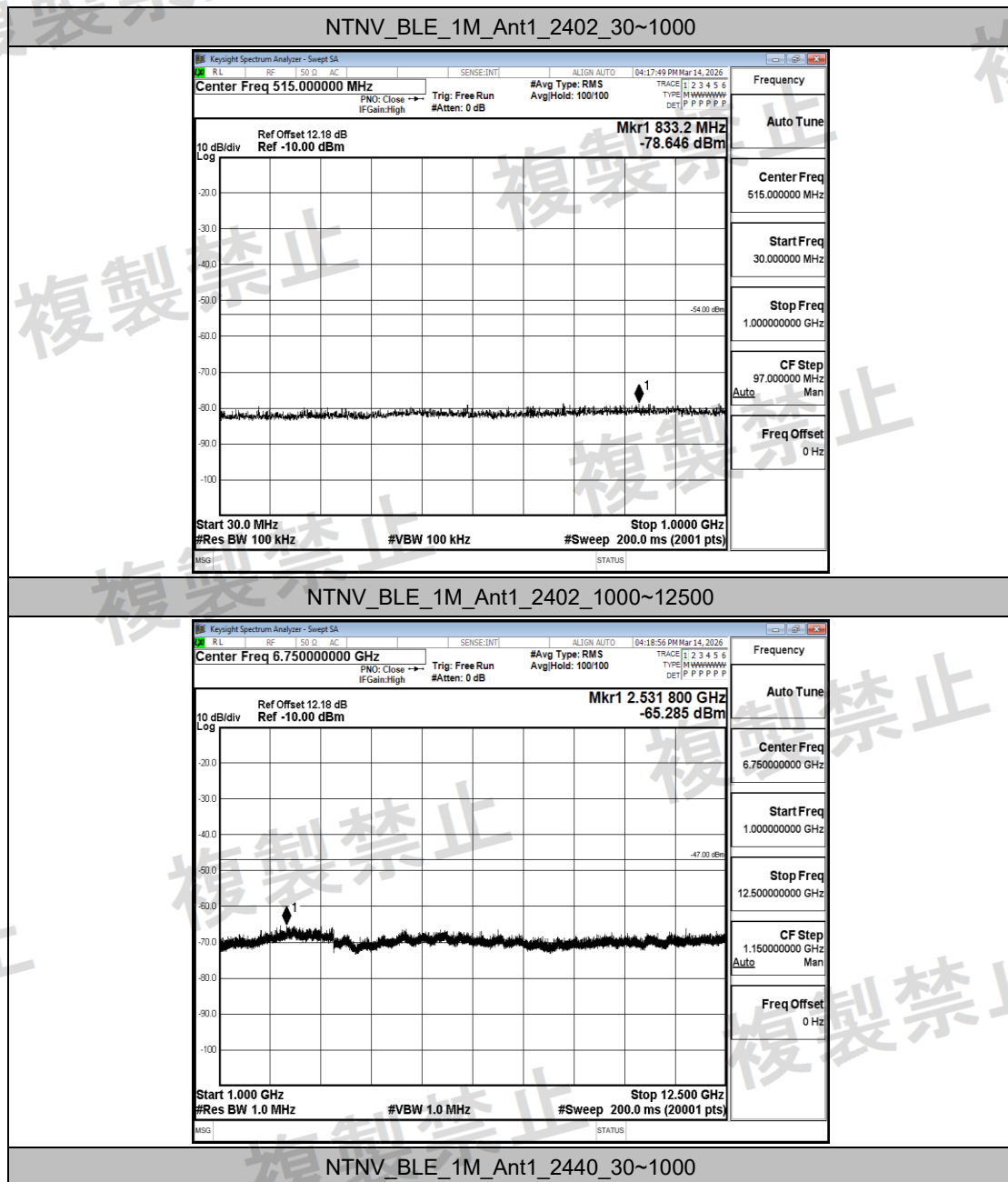


A.6 Spurious Emission of RX

Test Result

TestCondition	TestMode	Antenna	Freq(M Hz)	Freq.Range [MHz]	Freq. [MHz]	Result [dBm]	Limit [dBm]	Result [nW]	Limit [nW]	Verdict
NTNV	BLE_1M	Ant1	2402	30~1000	833.16	-78.65	≤-54	0.01365	≤4	PASS
				1000~12500	2531.80	-65.29	≤-47	0.29580	≤20	PASS
			2440	30~1000	780.30	-78.04	≤-54	0.01570	≤4	PASS
				1000~12500	2676.13	-65.35	≤-47	0.29174	≤20	PASS
			2480	30~1000	761.38	-78.40	≤-54	0.01445	≤4	PASS
				1000~12500	6104.85	-65.07	≤-47	0.31117	≤20	PASS
	BLE_2M	Ant1	2402	30~1000	982.06	-78.34	≤-54	0.01466	≤4	PASS
				1000~12500	3186.73	-64.77	≤-47	0.33343	≤20	PASS
			2440	30~1000	793.39	-78.64	≤-54	0.01368	≤4	PASS
				1000~12500	3497.80	-65.24	≤-47	0.29923	≤20	PASS
			2480	30~1000	870.02	-78.32	≤-54	0.01472	≤4	PASS
				1000~12500	2621.50	-64.94	≤-47	0.32063	≤20	PASS

Test Graphs

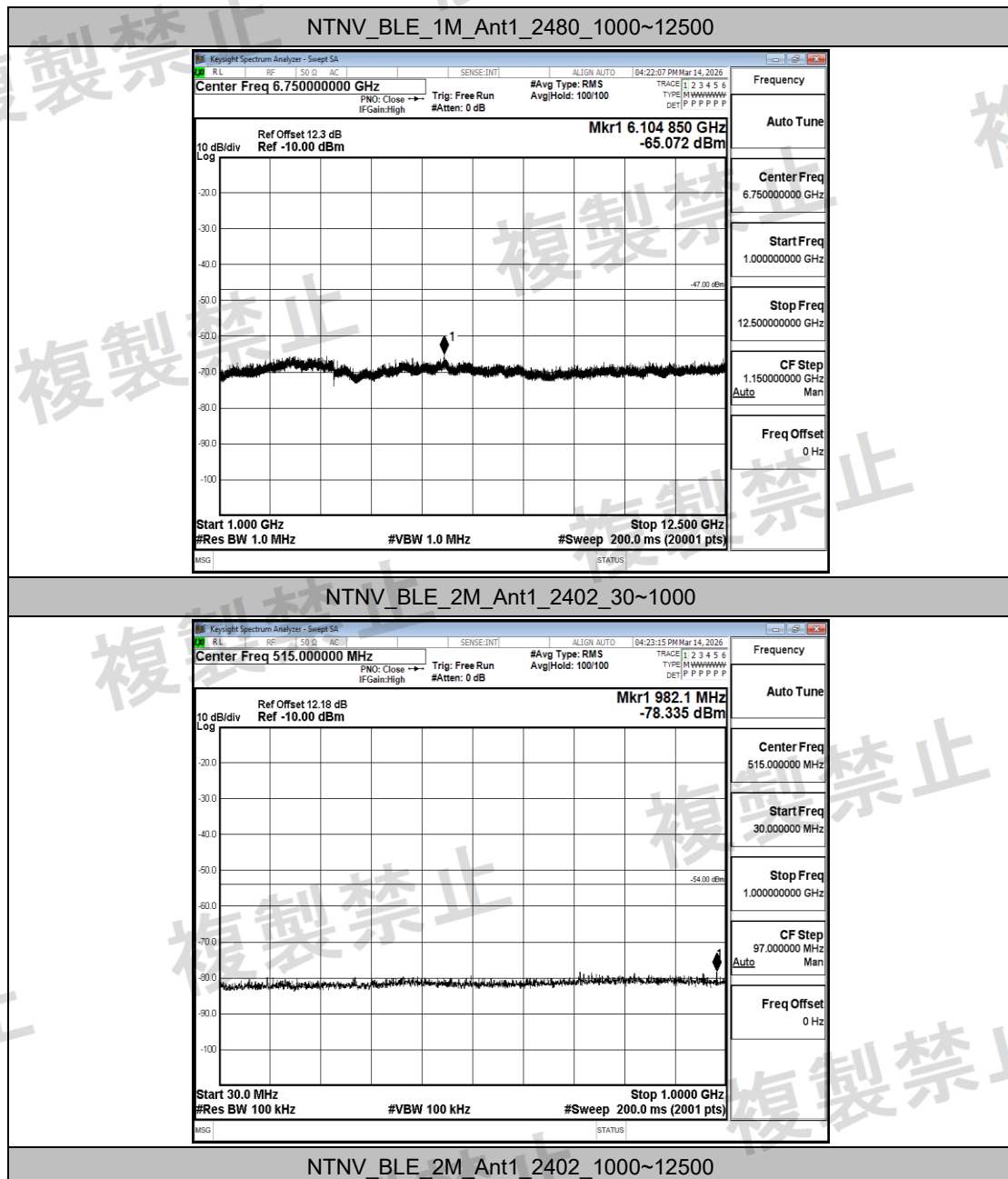


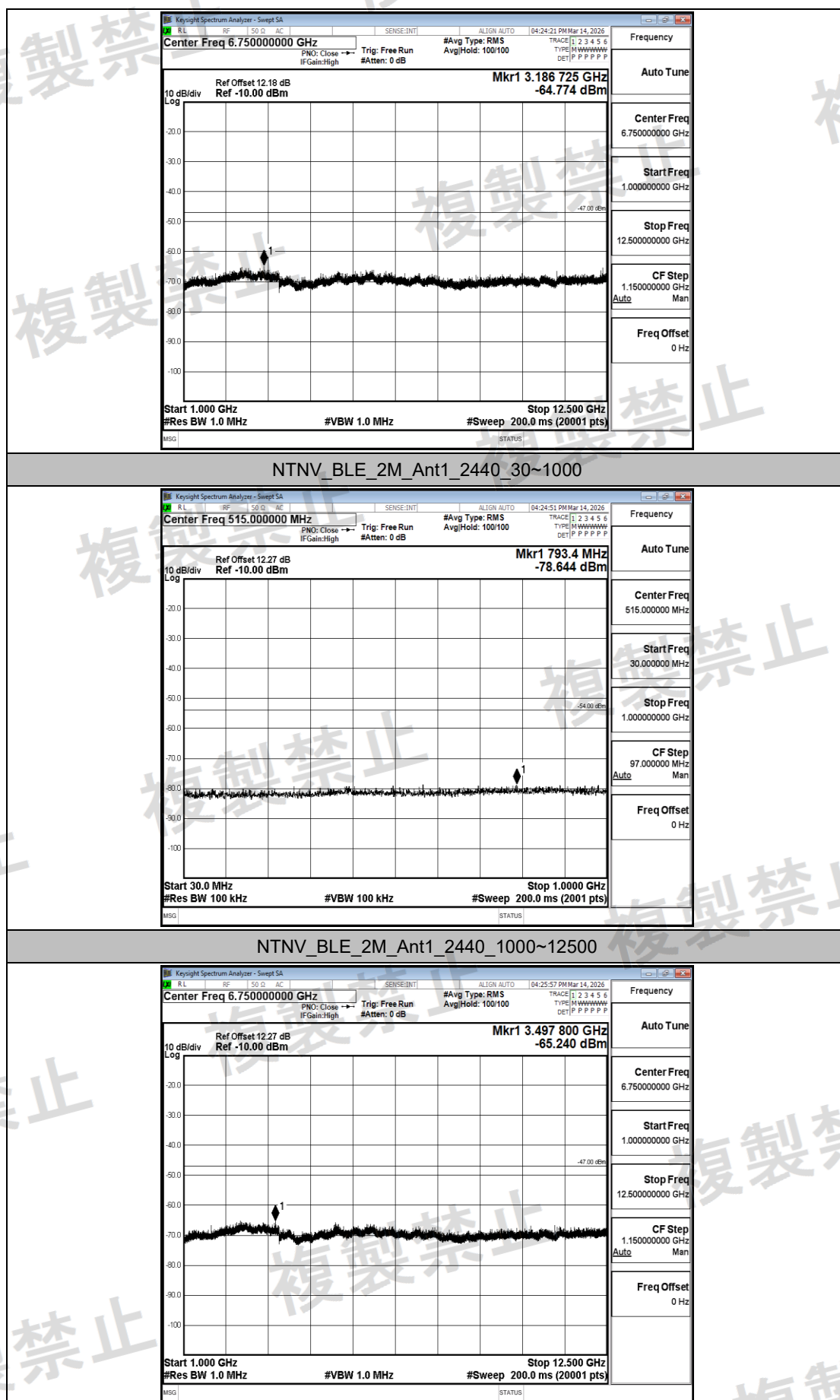


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