

Appendix B for BT LE Test Data

Product Name: Bone Conduction Headphonesw/ Swappable Drivers
Test Model: PB1-COM

Environmental Conditions

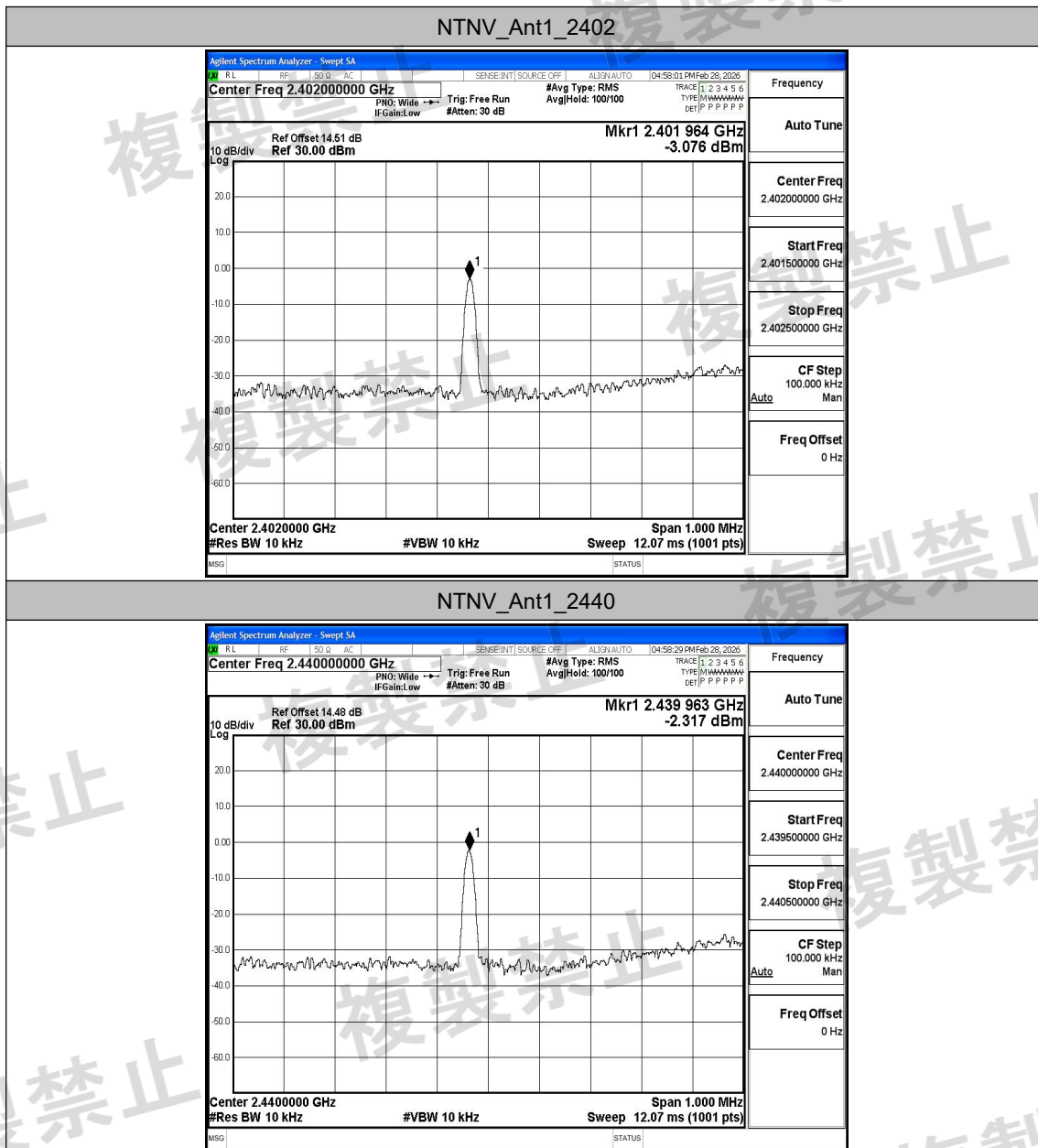
Temperature:	23.8°C
Relative Humidity:	53.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Zhang hai
Supervised by:	Fengliu Tang

B.1 Frequency Error

Test Result

TestCondition	TestMode	Antenna	Frequency [MHz]	Result[ppm]	Limit[ppm]	Verdict
NTNV	Frequency Error	Ant1	2402	-14.98751	±50	PASS
			2440	-15.16393	±50	PASS
			2480	-15.72581	±50	PASS

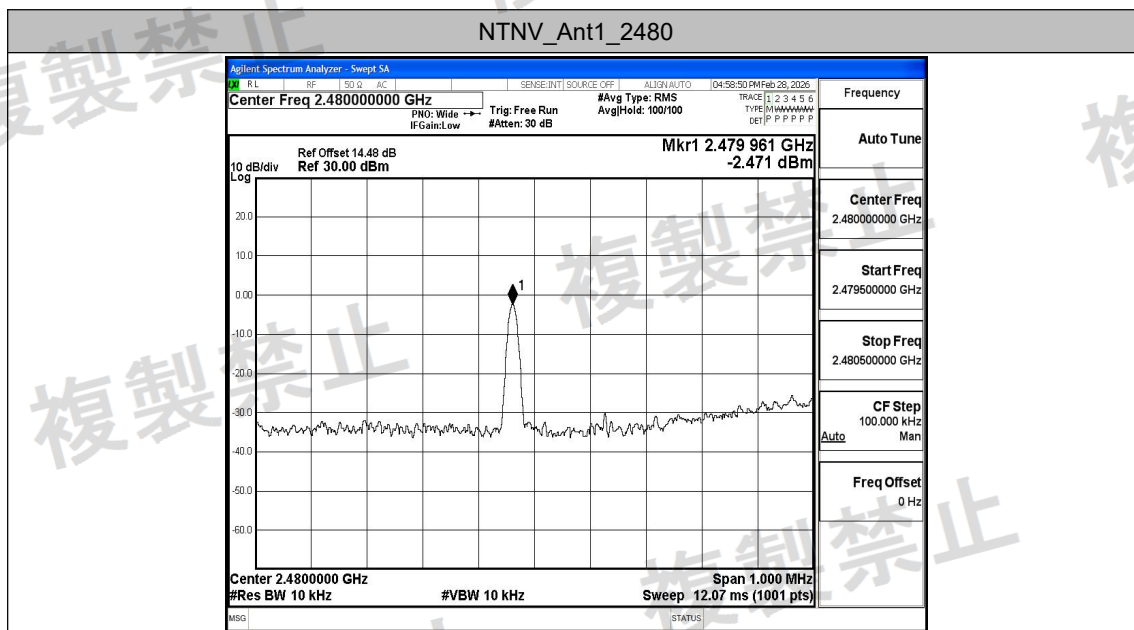
Test Graphs



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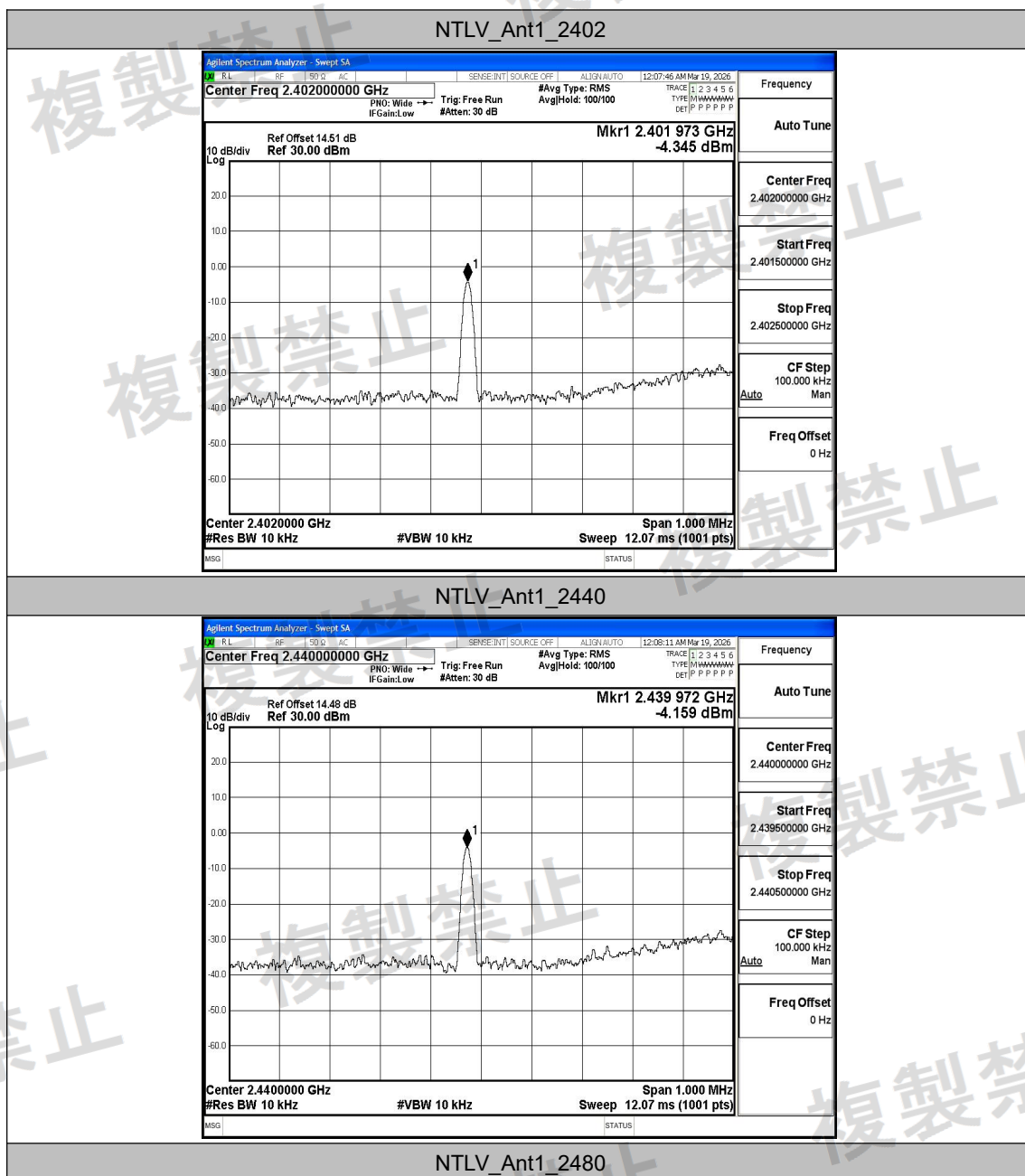
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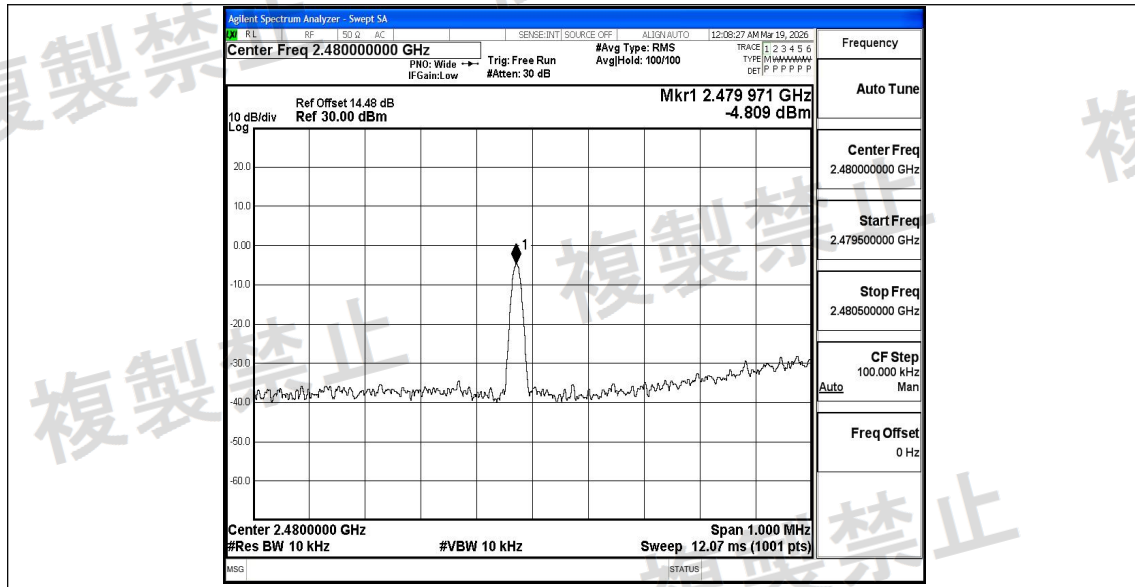
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TestCondition	TestMode	Antenna	Channel	Result[ppm]	Limit[ppm]	Verdict
NTLV	Frequency Error	Ant1	2402	-11.24063	±50	PASS
			2440	-11.47541	±50	PASS
			2480	-11.69355	±50	PASS

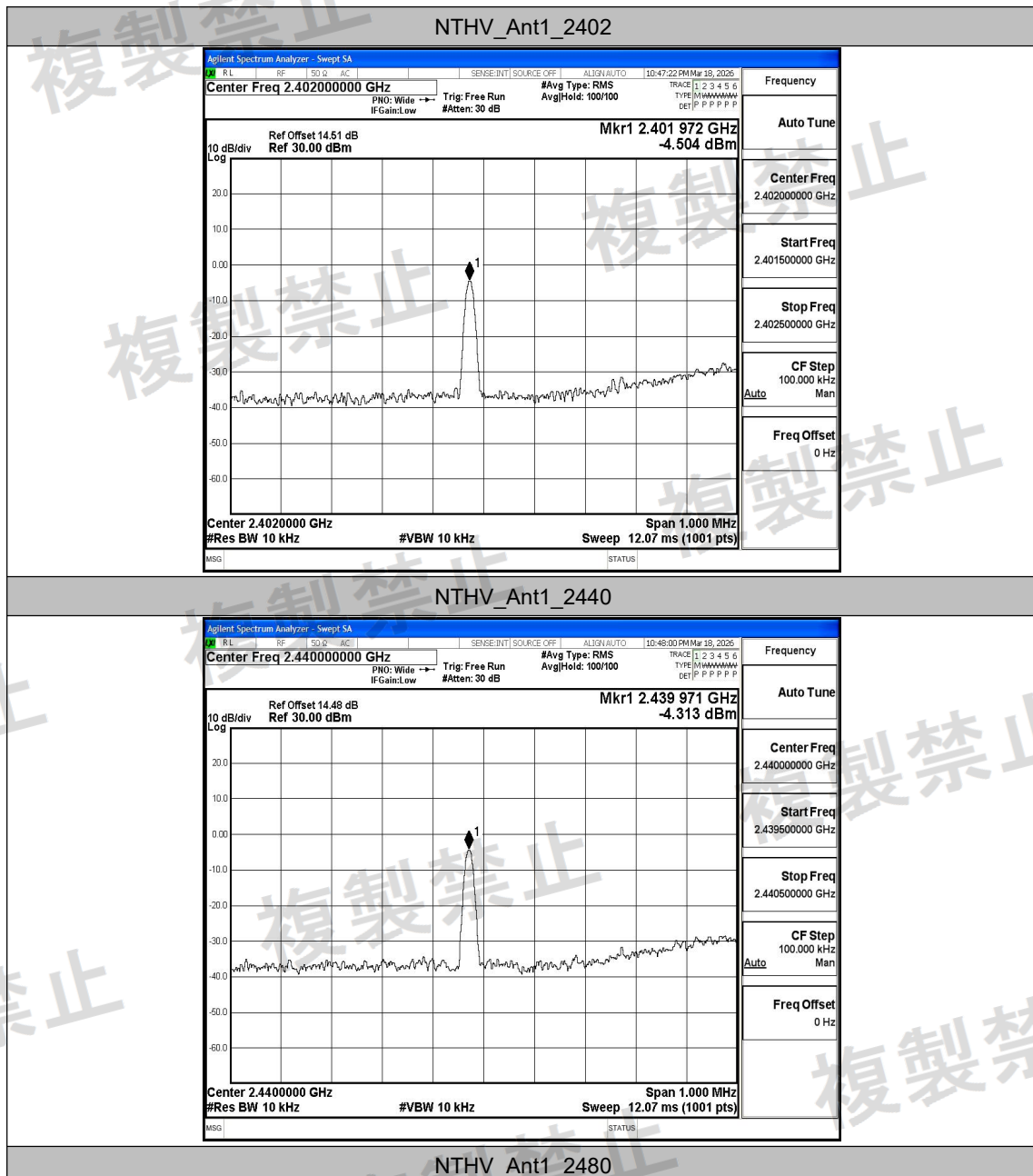
Test Graphs

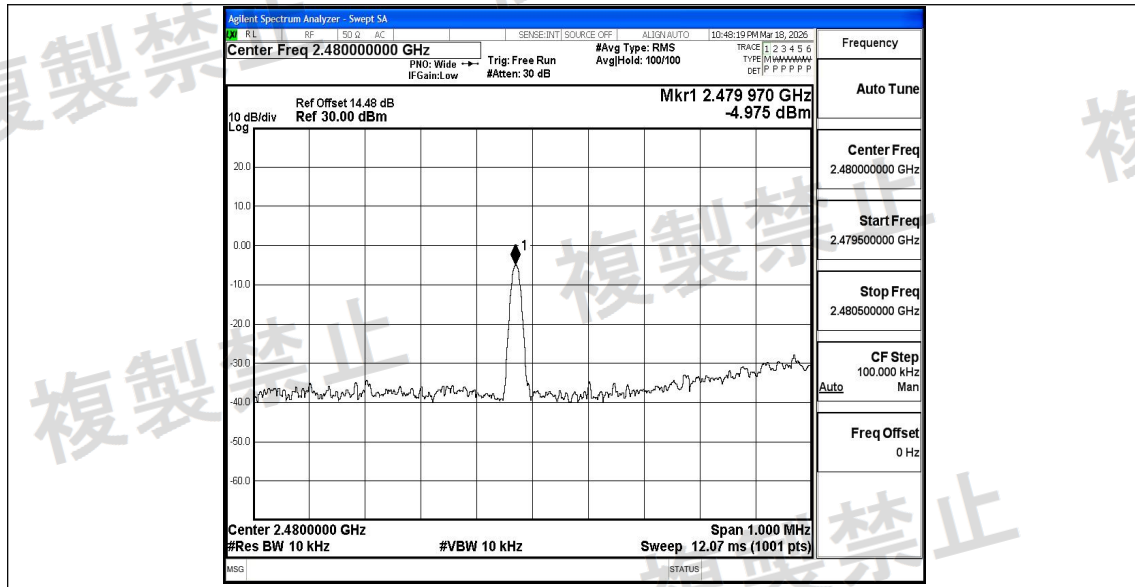




TestCondition	TestMode	Antenna	Channel	Result[ppm]	Limit[ppm]	Verdict
NTHV	Frequency Error	Ant1	2402	-11.65695	±50	PASS
			2440	-11.88525	±50	PASS
			2480	-12.09677	±50	PASS

Test Graphs





B.2 Antenna Power & EIRP

Test Result

Antenna Power							
TestCondition	TestMode	Antenna	Frequency [MHz]	Result [dBm]	Result [mW]	Limit [mW]	Verdict
NTNV	BLE_1M	Ant1	2402	0.93	1.2388	≤10	PASS
			2440	1.60	1.4454	≤10	PASS
			2480	1.61	1.4488	≤10	PASS
	BLE_2M	Ant1	2404	0.48	1.1169	≤10	PASS
			2440	1.58	1.4388	≤10	PASS
			2478	1.46	1.3996	≤10	PASS

Tolerance								
Test Condition	Test Mode	Antenna	Frequency [MHz]	Power [mW]	Rated Power [mW]	Result [%]	Limit [%]	Verdict
NTNV	BLE_1M	Ant1	2402	1.2388	1.5	-17.41	+20	PASS
			2440	1.4454	1.5	-3.64	+20	PASS
			2480	1.4488	1.5	-3.41	+20	PASS
	BLE_2M	Ant1	2404	1.1169	1.5	-25.54	+20	PASS
			2440	1.4388	1.5	-4.08	+20	PASS
			2478	1.3996	1.5	-6.69	+20	PASS

EIRP								
Test Condition	TestMode	Antenna	Freq(MHz)	Measured Power (dBm)	Antenna gain (dBi)	EIRP (dBm)	Limit (dBm)	Verdict
NTNV	BLE_1M	Ant1	2402	0.93	2.84	3.77	≤12.14	PASS
			2440	1.60	2.84	4.44	≤12.14	PASS
			2480	1.61	2.84	4.45	≤12.14	PASS
NTNV	BLE_2M	Ant1	2402	0.48	2.84	3.32	≤12.14	PASS
			2440	1.58	2.84	4.42	≤12.14	PASS
			2480	1.46	2.84	4.30	≤12.14	PASS

Antenna Power							
TestCondition	TestMode	Antenna	Frequency [MHz]	Result [dBm]	Result [mW]	Limit [mW]	Verdict
NTLV	BLE_1M	Ant1	2402	0.81	1.2050	≤10	PASS
			2440	1.45	1.3964	≤10	PASS
			2480	1.29	1.3459	≤10	PASS
	BLE_2M	Ant1	2404	0.48	1.1169	≤10	PASS
			2440	1.09	1.2853	≤10	PASS
			2478	1.78	1.5066	≤10	PASS

Tolerance								
Test Condition	Test Mode	Antenna	Frequency [MHz]	Power [mW]	Rated Power [mW]	Result [%]	Limit [%]	Verdict
NTLV	BLE_1M	Ant1	2402	1.2050	1.5	-19.67	+20	PASS
			2440	1.3964	1.5	-6.91	+20	PASS
			2480	1.3459	1.5	-10.27	+20	PASS
	BLE_2M	Ant1	2404	1.1169	1.5	-25.54	+20	PASS
			2440	1.2853	1.5	-14.31	+20	PASS
			2478	1.5066	1.5	0.44	+20	PASS

EIRP								
Test Condition	TestMode	Antenna	Freq(MHz)	Measured Power (dBm)	Antenna gain (dBi)	EIRP (dBm)	Limit (dBm)	Verdict
NTLV	BLE_1M	Ant1	2402	0.81	2.84	3.65	≤12.14	PASS
			2440	1.45	2.84	4.29	≤12.14	PASS
			2480	1.29	2.84	4.13	≤12.14	PASS
NTLV	BLE_2M	Ant1	2402	0.48	2.84	3.32	≤12.14	PASS
			2440	1.09	2.84	3.93	≤12.14	PASS
			2480	1.78	2.84	4.62	≤12.14	PASS

Antenna Power							
TestCondition	TestMode	Antenna	Frequency [MHz]	Result [dBm]	Result [mW]	Limit [mW]	Verdict
NTHV	BLE_1M	Ant1	2402	0.84	1.2134	≤10	PASS
			2440	1.77	1.5031	≤10	PASS
			2480	1.34	1.3614	≤10	PASS
	BLE_2M	Ant1	2404	0.43	1.1041	≤10	PASS
			2440	1.21	1.3213	≤10	PASS
			2478	1.95	1.5668	≤10	PASS

Tolerance								
Test Condition	Test Mode	Antenna	Frequency [MHz]	Power [mW]	Rated Power [mW]	Result [%]	Limit [%]	Verdict
NTHV	BLE_1M	Ant1	2402	1.2134	1.5	-19.11	+20	PASS
			2440	1.5031	1.5	0.21	+20	PASS
			2480	1.3614	1.5	-9.24	+20	PASS
	BLE_2M	Ant1	2404	1.1041	1.5	-26.39	+20	PASS
			2440	1.3213	1.5	-11.91	+20	PASS
			2478	1.5668	1.5	4.45	+20	PASS

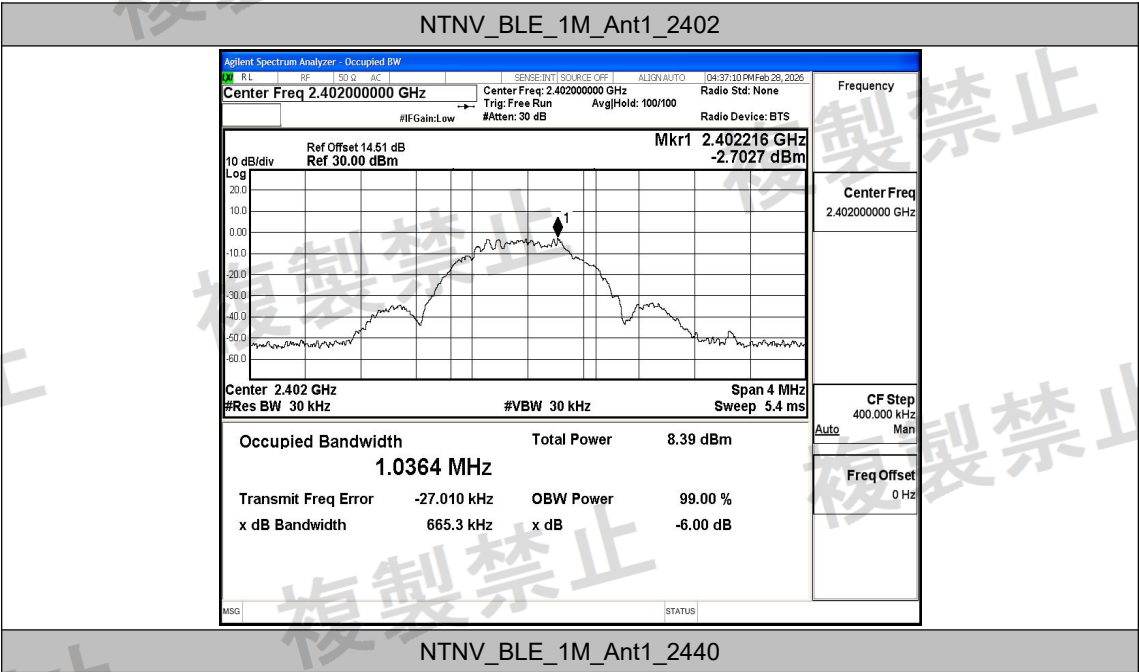
EIRP								
Test Condition	TestMode	Antenna	Freq(MHz)	Measured Power (dBm)	Antenna gain (dBi)	EIRP (dBm)	Limit (dBm)	Verdict
NTHV	BLE_1M	Ant1	2402	0.84	2.84	3.68	≤12.14	PASS
			2440	1.77	2.84	4.61	≤12.14	PASS
			2480	1.34	2.84	4.18	≤12.14	PASS
NTHV	BLE_2M	Ant1	2402	0.43	2.84	3.27	≤12.14	PASS
			2440	1.21	2.84	4.05	≤12.14	PASS
			2480	1.95	2.84	4.79	≤12.14	PASS

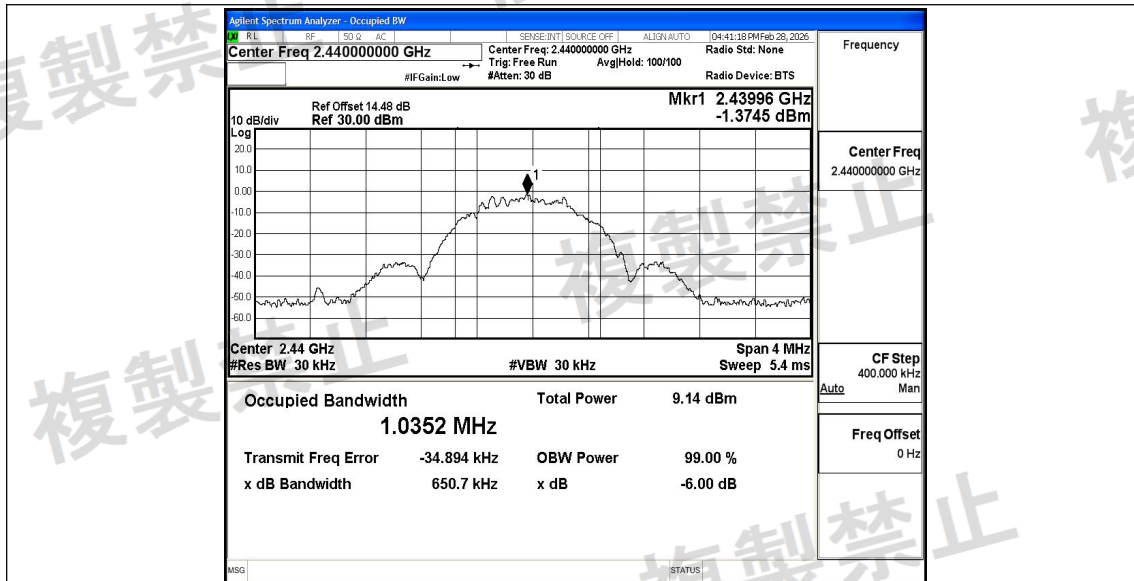
B.3 Occupied Bandwidth

Test Result

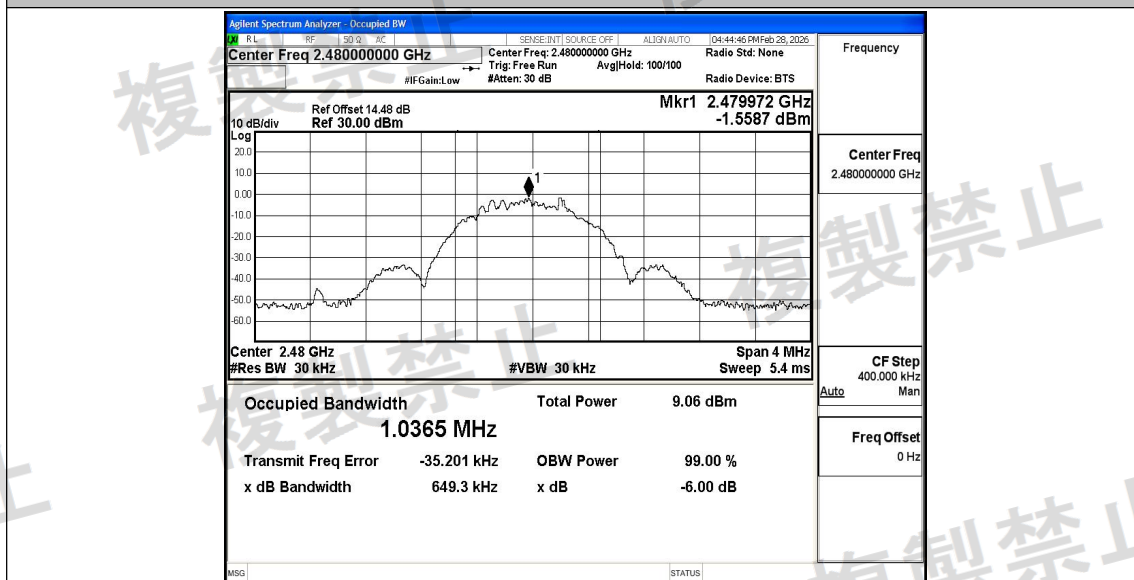
TestCondition	TestMode	Antenna	Frequency [MHz]	Result [MHz]	Limit [MHz]	Verdict
NTNV	BLE_1M	Ant1	2402	1.036	≤26	PASS
			2440	1.035	≤26	PASS
			2480	1.037	≤26	PASS
	BLE_2M	Ant1	2402	2.043	≤26	PASS
			2440	2.056	≤26	PASS
			2480	2.055	≤26	PASS

Test Graphs

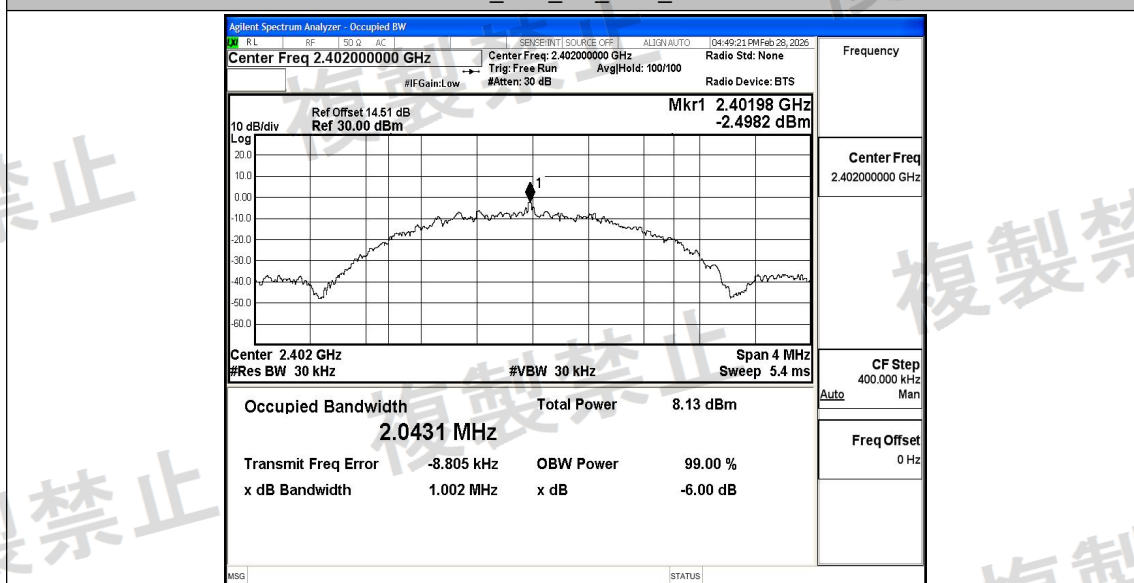


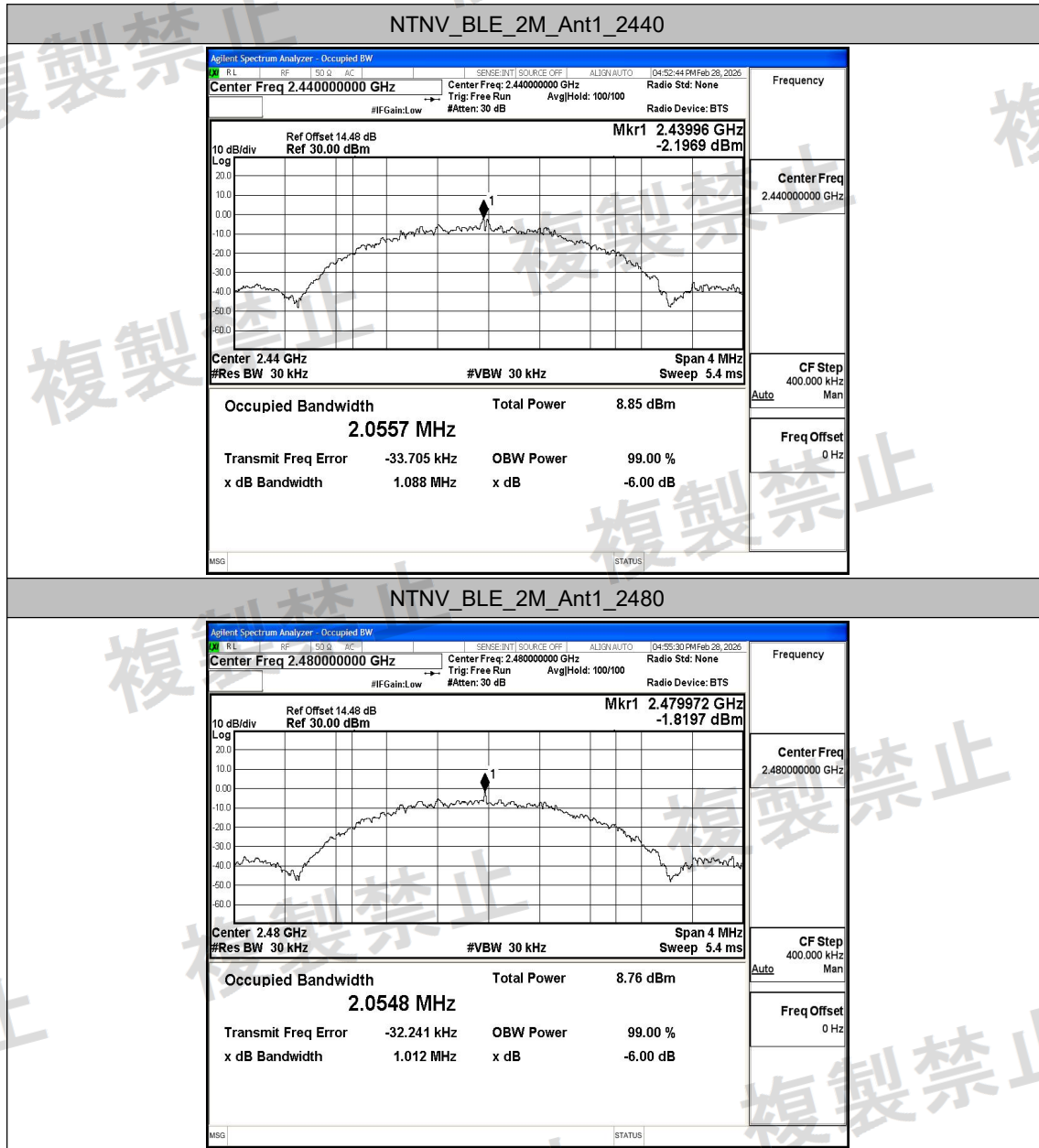


NTNV_BLE_1M_Ant1_2480



NTNV_BLE_2M_Ant1_2402





TestCondition	TestMode	Antenna	Channel	Result [MHz]	Limit [MHz]	Verdict
NTLV	BLE_1M	Ant1	2402	1.038	≤26	PASS
			2440	1.042	≤26	PASS
			2480	1.040	≤26	PASS
	BLE_2M	Ant1	2402	2.064	≤26	PASS
			2440	2.045	≤26	PASS
			2480	2.055	≤26	PASS

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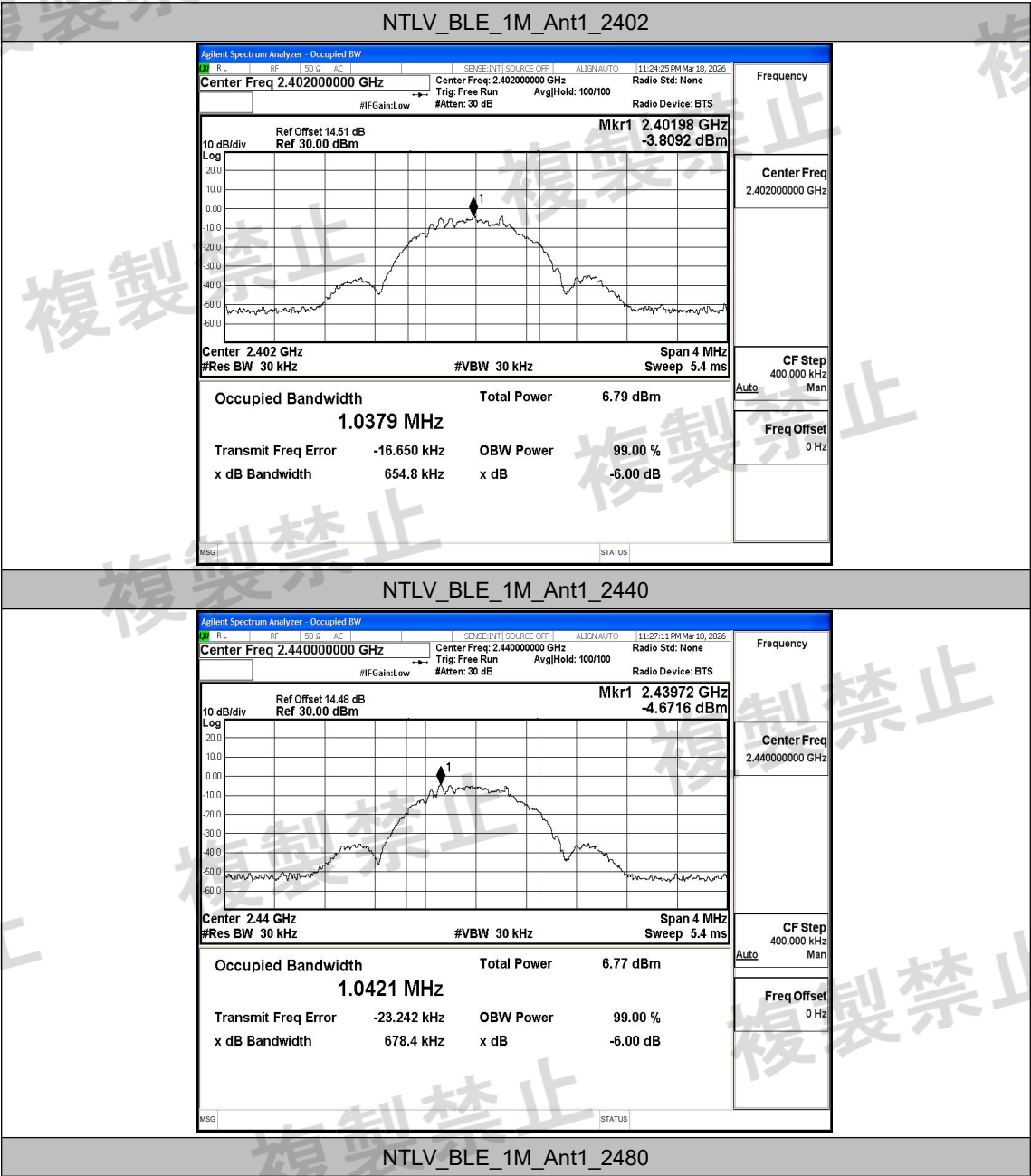
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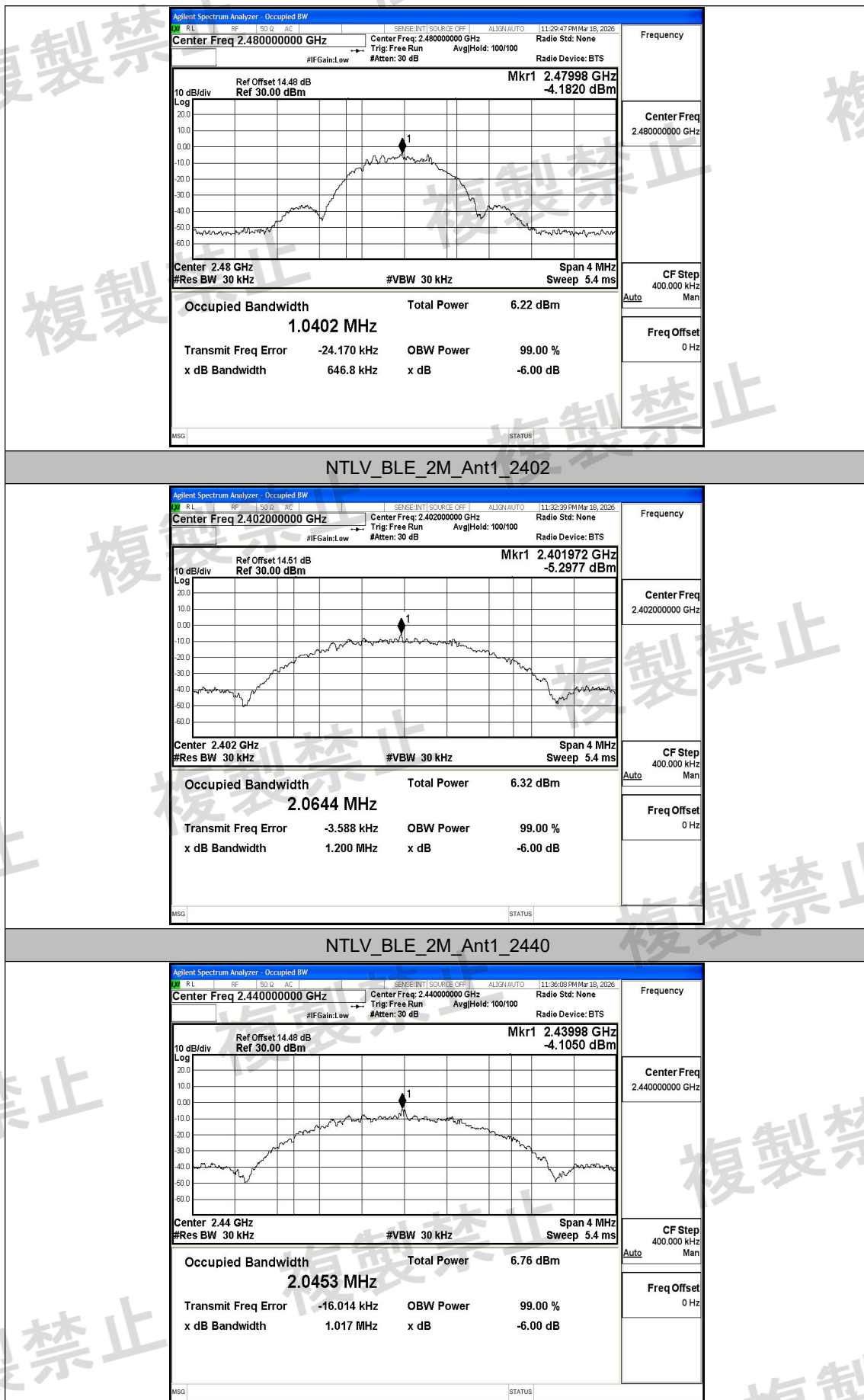
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Test Graphs

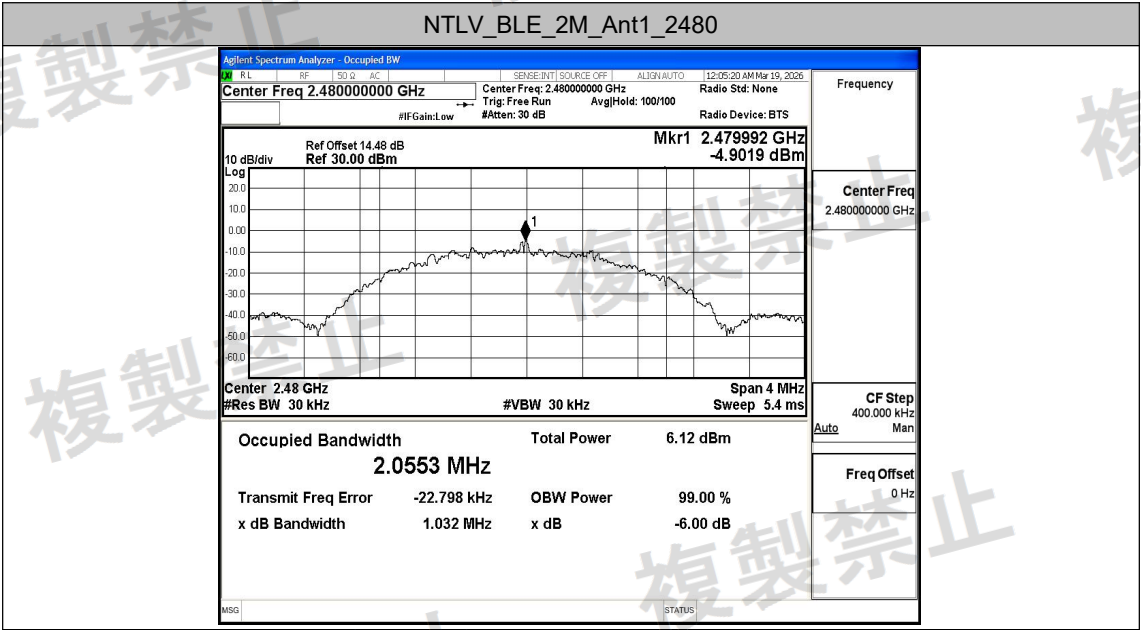




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TestCondition	TestMode	Antenna	Channel	Result [MHz]	Limit [MHz]	Verdict
NTHV	BLE_1M	Ant1	2402	1.037	≤26	PASS
			2440	1.040	≤26	PASS
			2480	1.043	≤26	PASS
	BLE_2M	Ant1	2402	2.053	≤26	PASS
			2440	2.061	≤26	PASS
			2480	2.058	≤26	PASS

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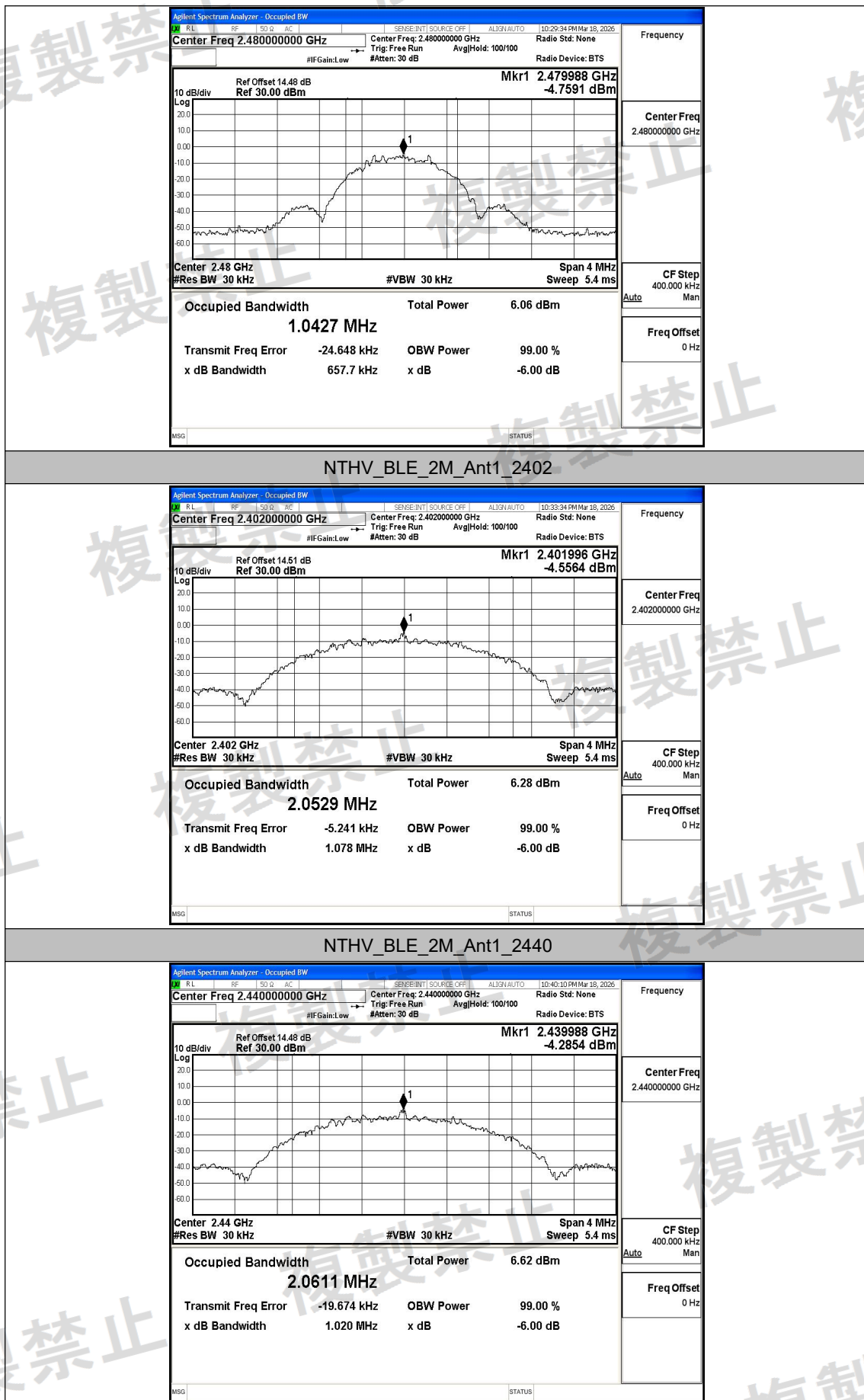
The figure displays two screenshots of an Agilent Spectrum Analyzer, showing the occupied bandwidth and power measurements for two different antenna configurations: NTHV_BLE_1M_Ant1_2402 and NTHV_BLE_1M_Ant1_2440.

Screenshot 1: NTHV_BLE_1M_Ant1_2402

- Center Freq:** 2.402000000 GHz
- Ref Offset:** 14.51 dB
- Ref:** 30.00 dBm
- Mkr1:** 2.402228 GHz, -4.5974 dBm
- Occupied Bandwidth:** 1.0374 MHz
- Total Power:** 6.55 dBm
- Transmit Freq Error:** -16.709 kHz
- OBW Power:** 99.00 %
- x dB Bandwidth:** 670.8 kHz, -6.00 dB
- Center Freq:** 2.402000000 GHz
- CF Step:** 400.000 kHz
- Freq Offset:** 0 Hz

Screenshot 2: NTHV_BLE_1M_Ant1_2440

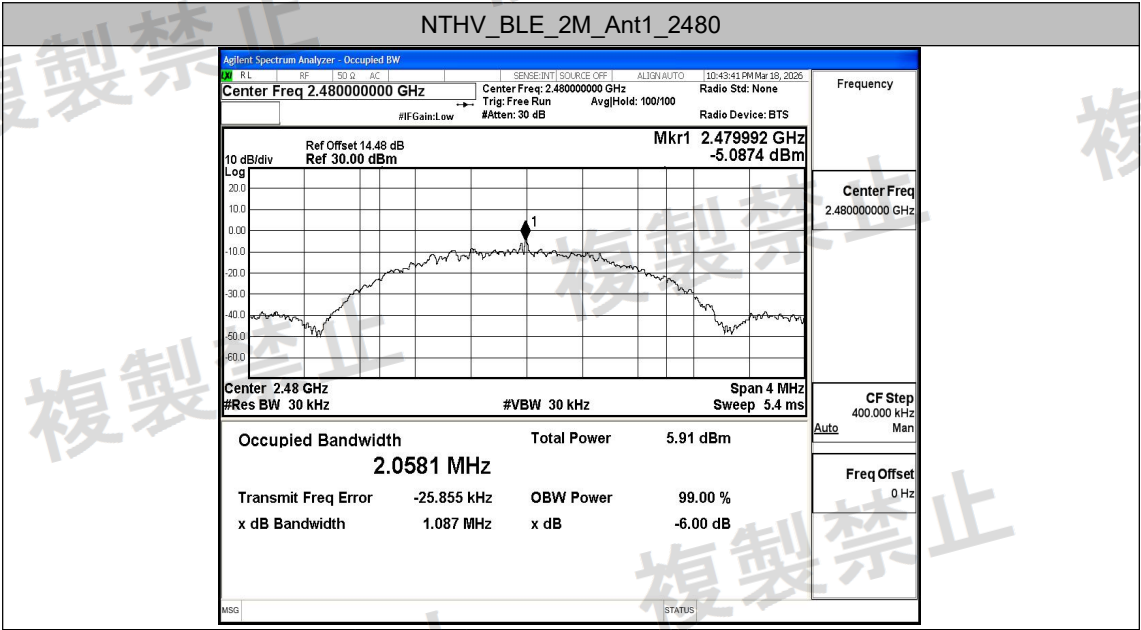
- Center Freq:** 2.440000000 GHz
- Ref Offset:** 14.48 dB
- Ref:** 30.00 dBm
- Mkr1:** 2.439984 GHz, -3.6481 dBm
- Occupied Bandwidth:** 1.0399 MHz
- Total Power:** 6.78 dBm
- Transmit Freq Error:** -24.006 kHz
- OBW Power:** 99.00 %
- x dB Bandwidth:** 648.9 kHz, -6.00 dB
- Center Freq:** 2.440000000 GHz
- CF Step:** 400.000 kHz
- Freq Offset:** 0 Hz



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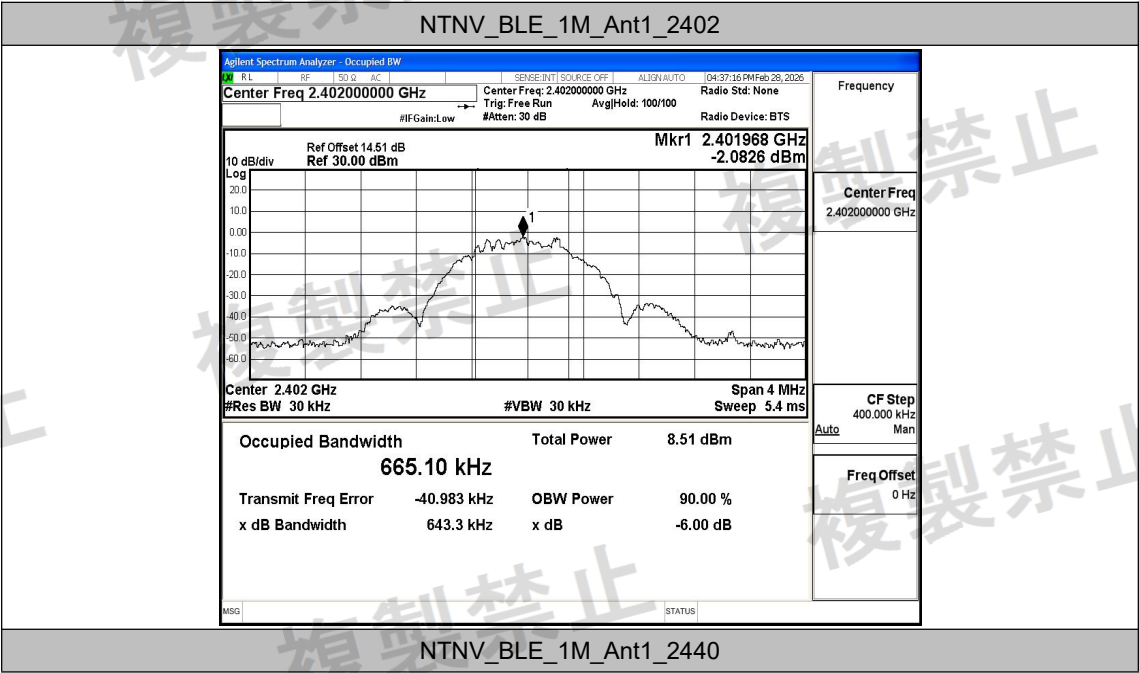


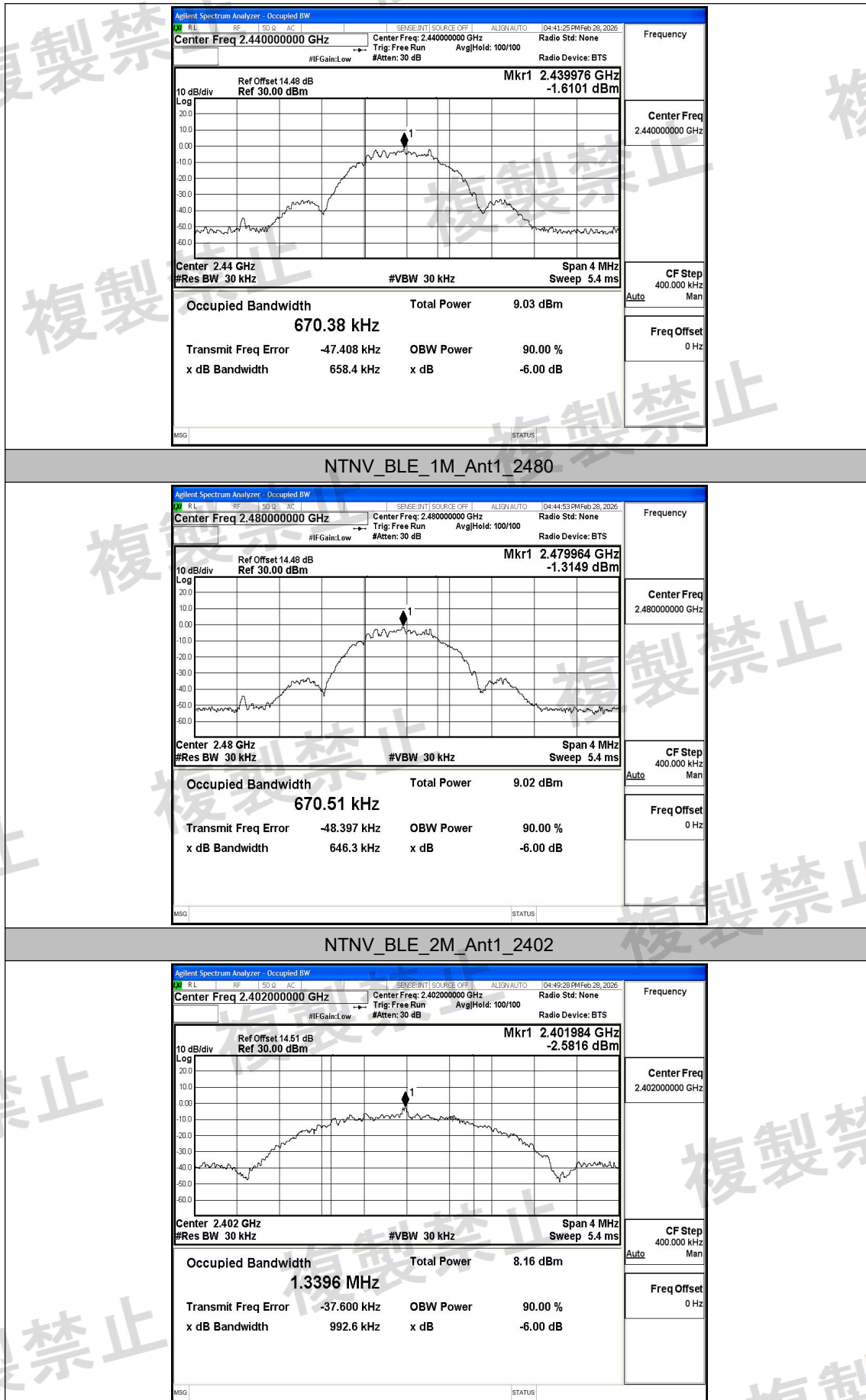
B.4 Spread Bandwidth

Test Result

TestCondition	TestMode	Antenna	Frequency [MHz]	Result [MHz]	Limit [MHz]	Verdict
NTNV	BLE_1M	Ant1	2402	0.665	---	PASS
			2440	0.670	---	PASS
			2480	0.671	---	PASS
	BLE_2M	Ant1	2402	1.340	---	PASS
			2440	1.339	---	PASS
			2480	1.356	---	PASS

Test Graphs

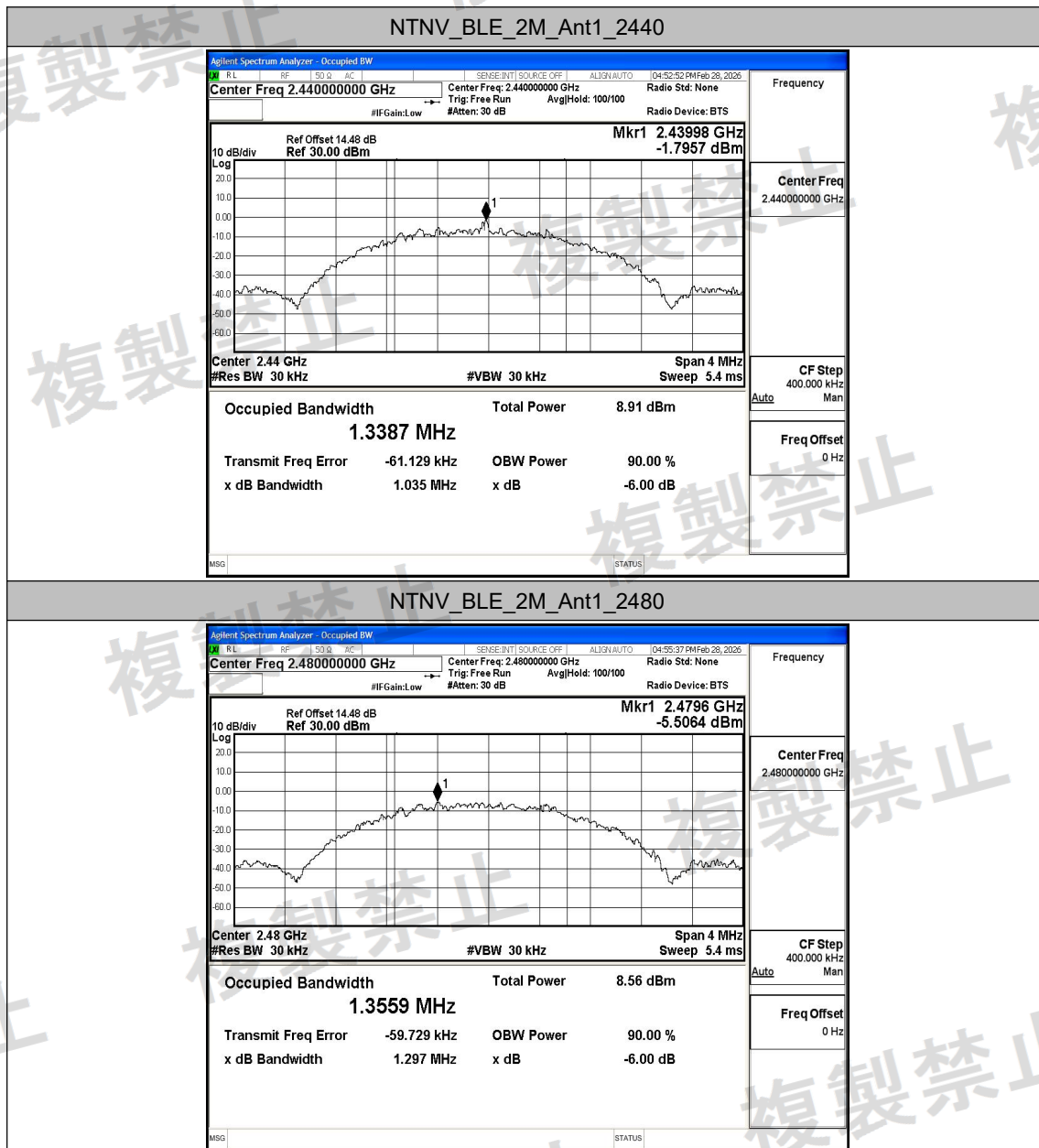




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TestCondition	TestMode	Antenna	Channel	Result [MHz]	Limit [MHz]	Verdict
NTLV	BLE_1M	Ant1	2402	0.671	--	PASS
			2440	0.670	--	PASS
			2480	0.663	--	PASS
	BLE_2M	Ant1	2402	1.350	--	PASS
			2440	1.355	--	PASS
			2480	1.342	--	PASS

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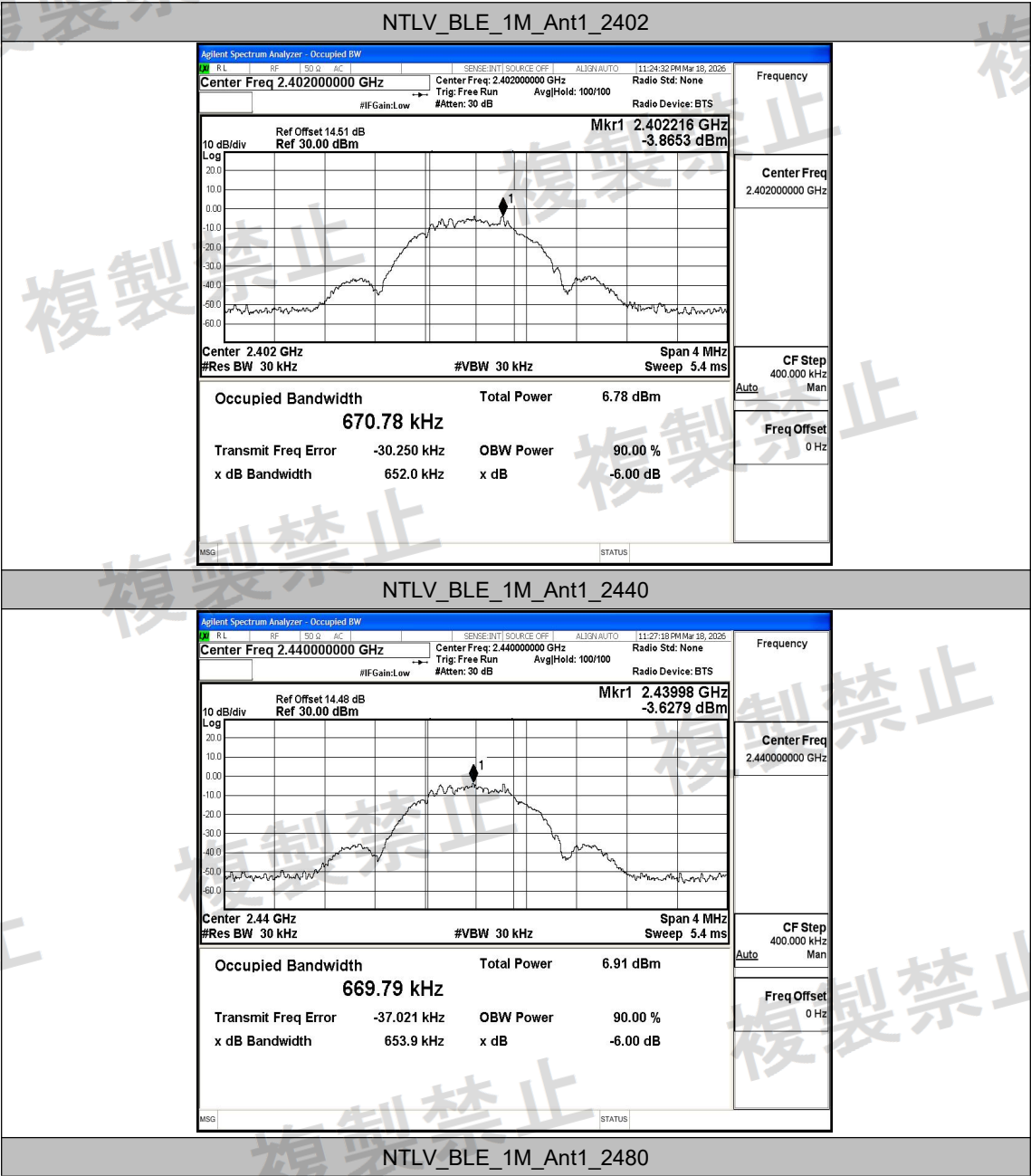
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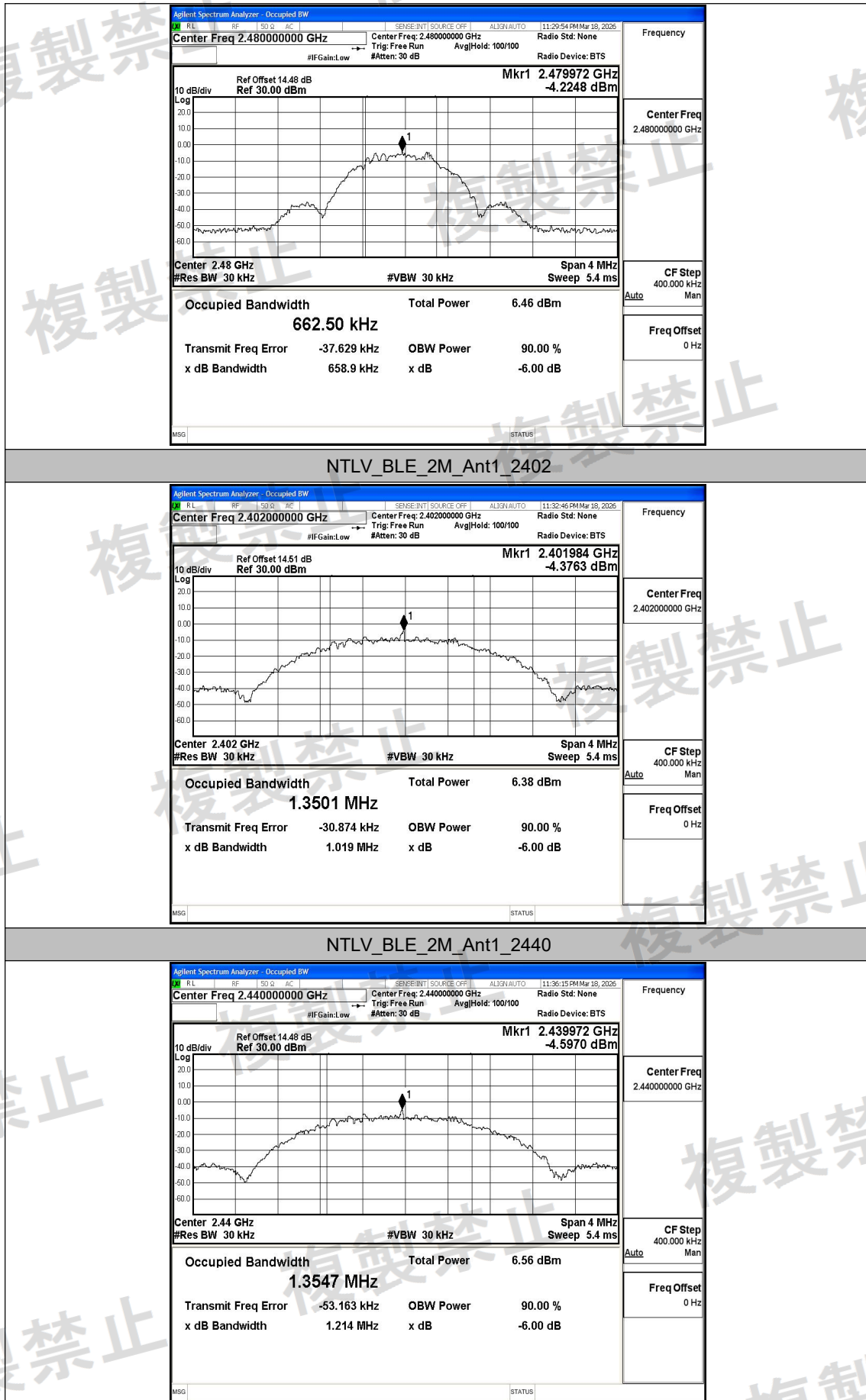
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Test Graphs

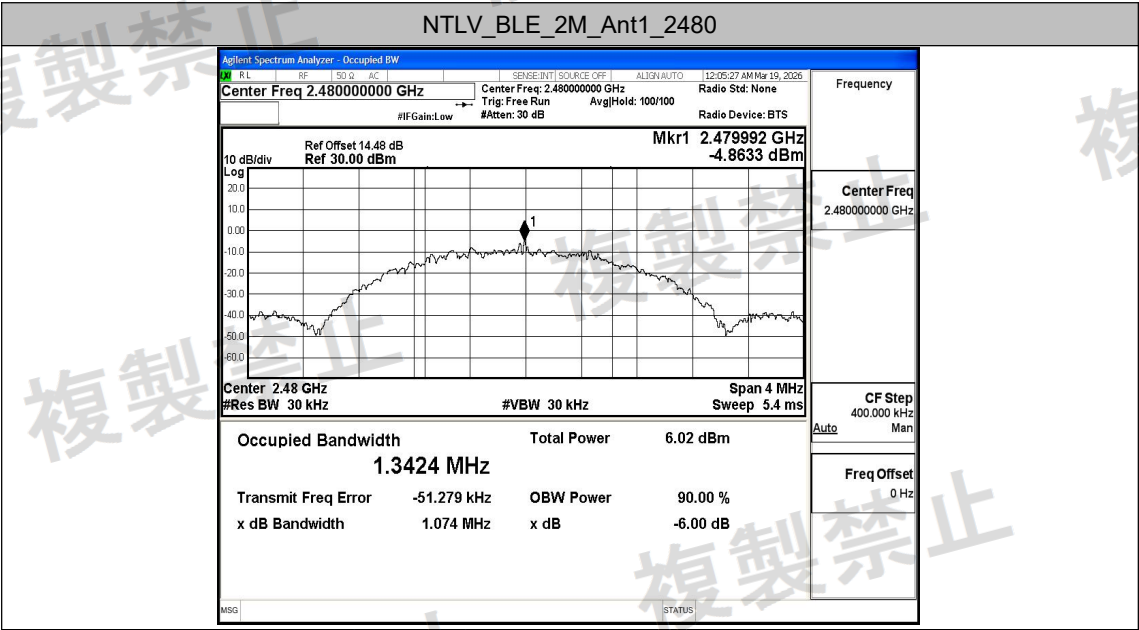




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TestCondition	TestMode	Antenna	Channel	Result [MHz]	Limit [MHz]	Verdict
NTHV	BLE_1M	Ant1	2402	0.674	--	PASS
			2440	0.667	--	PASS
			2480	0.666	--	PASS
	BLE_2M	Ant1	2402	1.344	--	PASS
			2440	1.341	--	PASS
			2480	1.352	--	PASS

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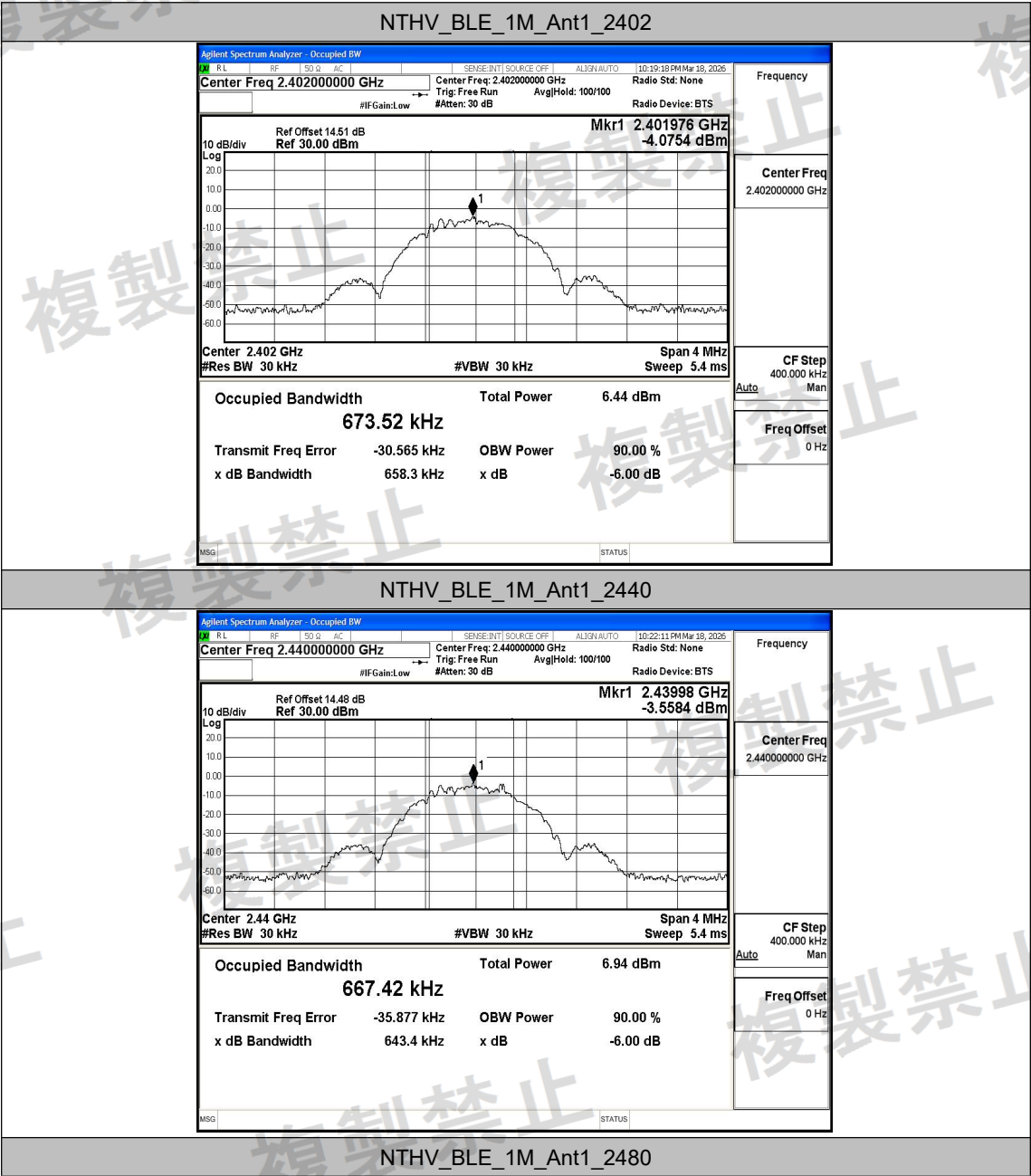
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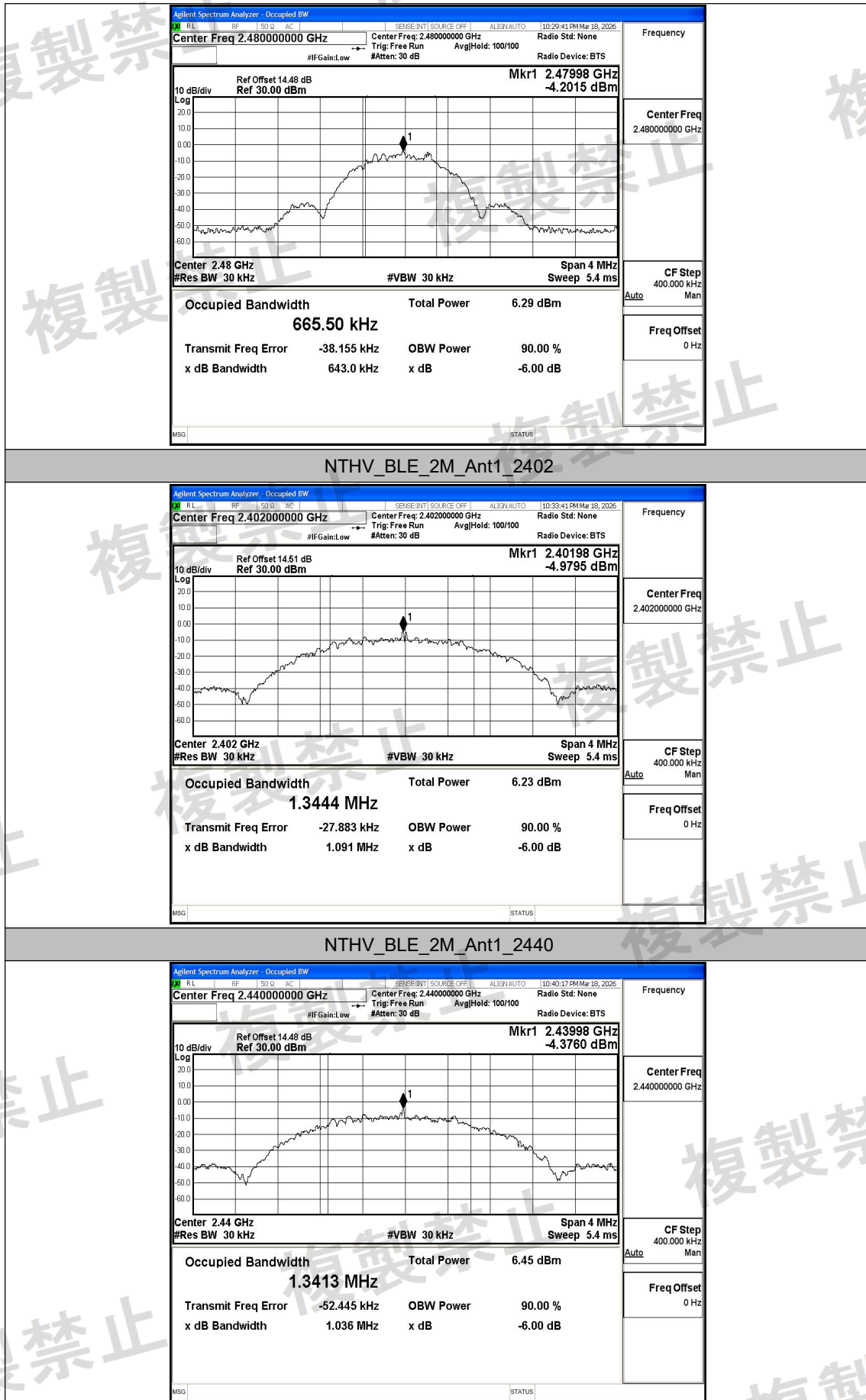
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Test Graphs

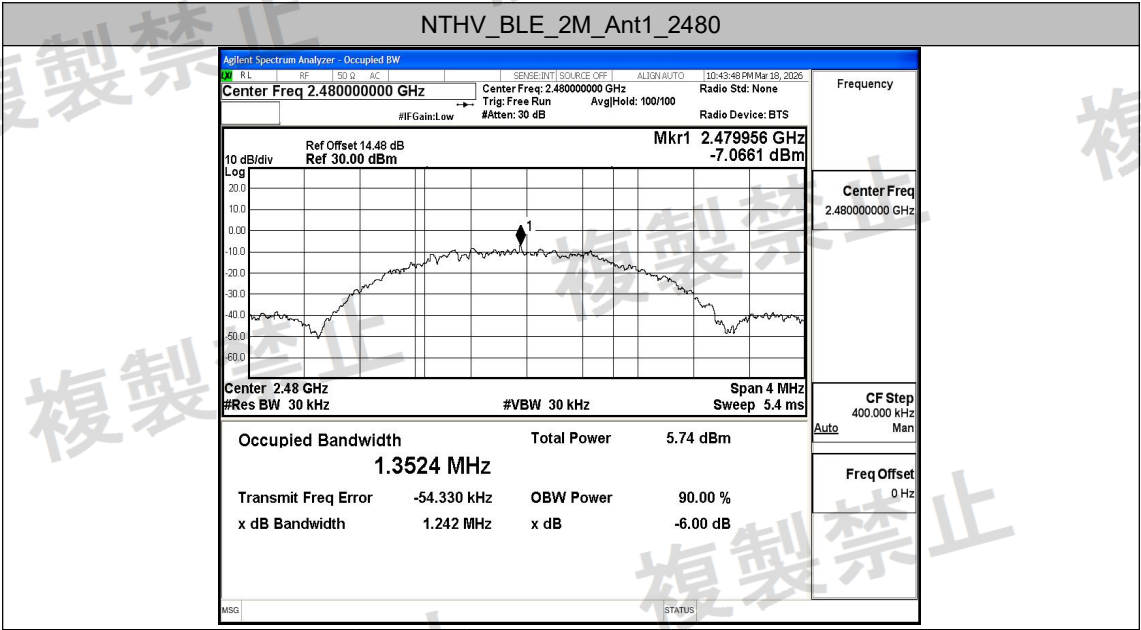




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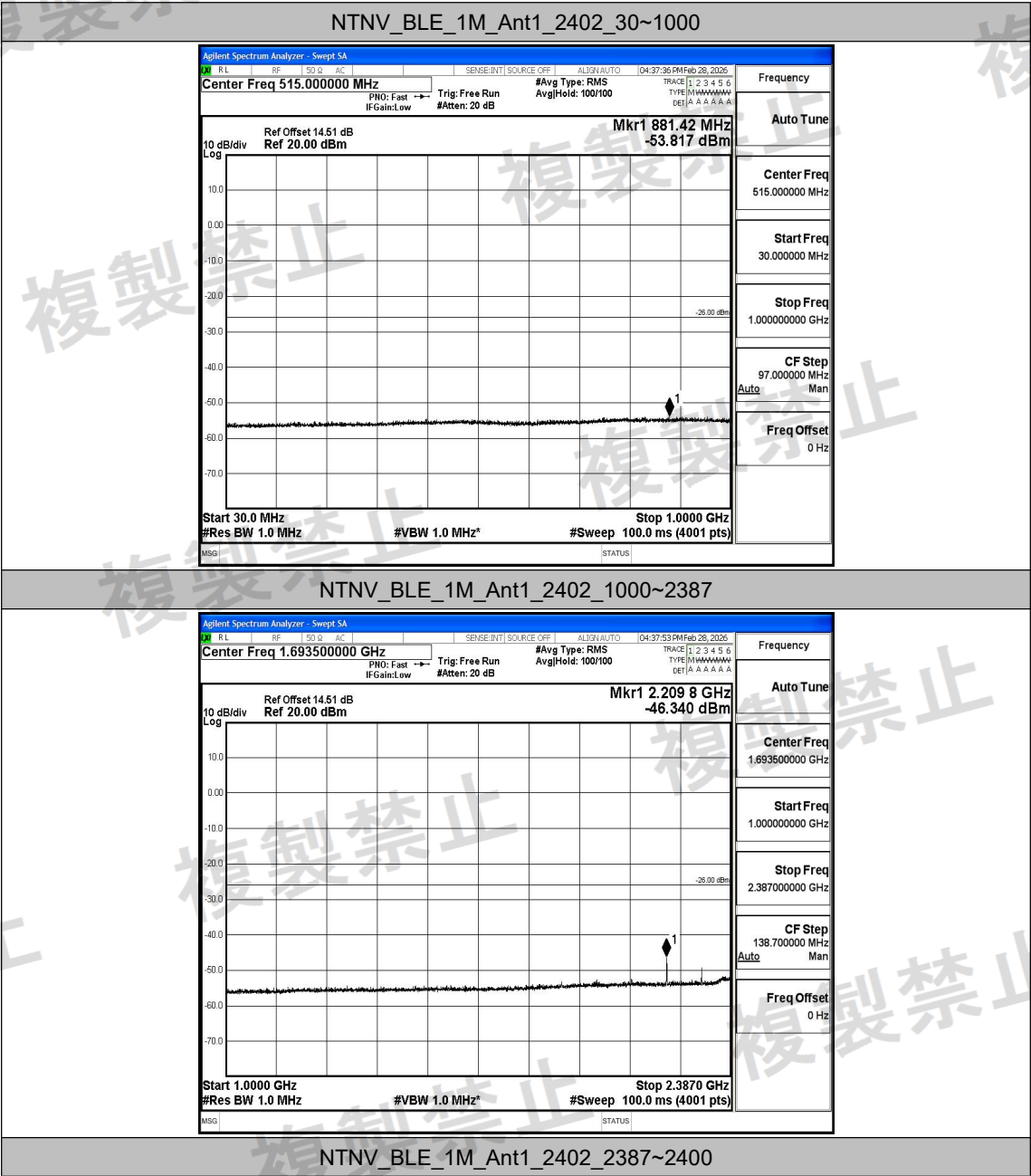


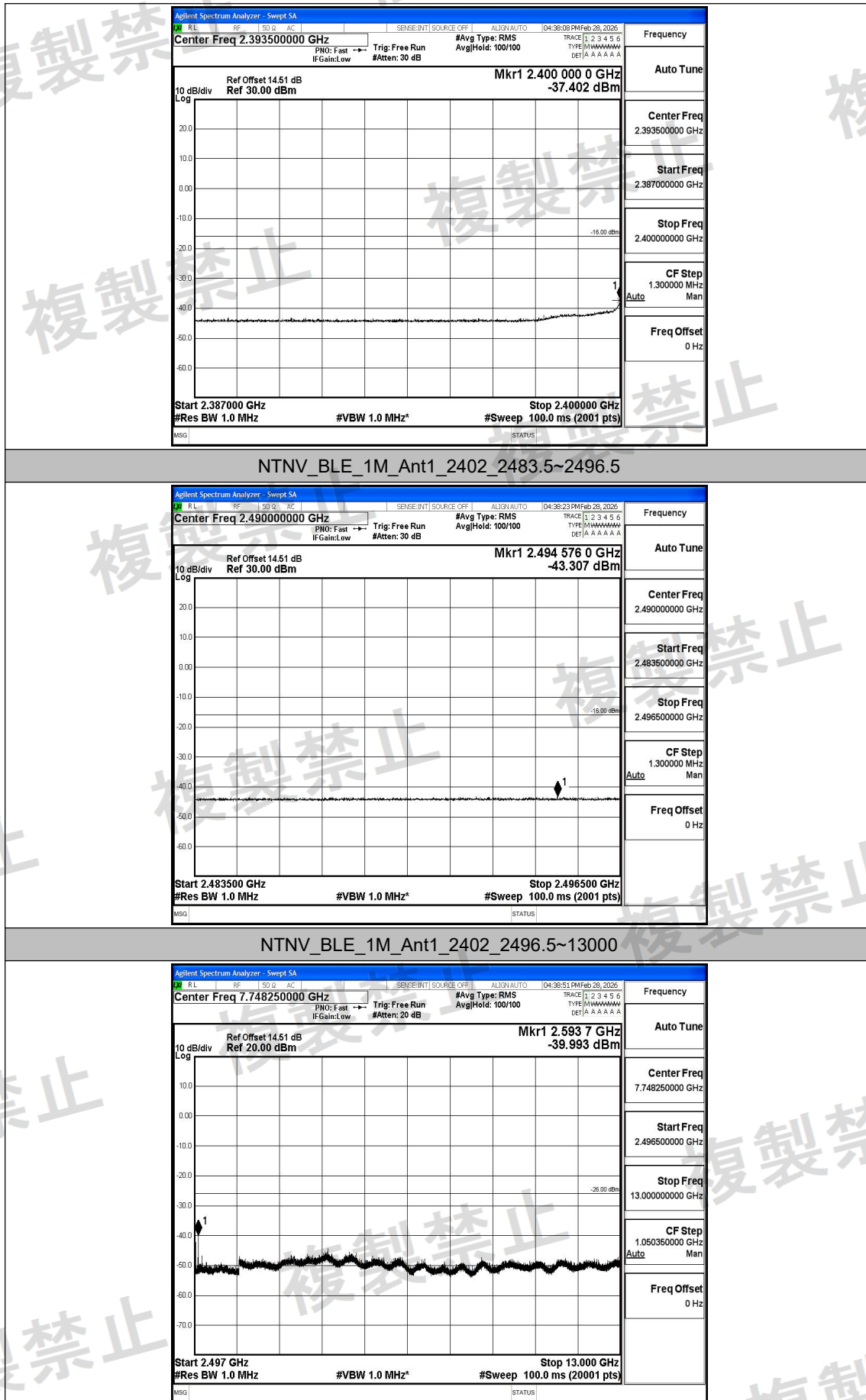
B.5 Spurious Emission of TX

Test Result

TestCondition	TestMode	Antenna	Frequency [MHz]	Freq.Range [MHz]	Result [dBm]	Limit [dBm]	Result [μW]	Limit [μW]	Verdict
NTNV	BLE_1M	Ant1	2402	30~1000	-53.82	≤-26	0.00415	≤2.5	PASS
				1000~2387	-46.34	≤-26	0.02323	≤2.5	PASS
				2387~2400	-37.40	≤-16	0.18197	≤25	PASS
				2483.5~2496.5	-43.31	≤-16	0.04667	≤25	PASS
				2496.5~13000	-39.99	≤-26	0.10023	≤2.5	PASS
			2440	30~1000	-53.74	≤-26	0.00423	≤2.5	PASS
				1000~2387	-44.91	≤-26	0.03228	≤2.5	PASS
				2387~2400	-43.30	≤-16	0.04677	≤25	PASS
				2483.5~2496.5	-43.29	≤-16	0.04688	≤25	PASS
				2496.5~13000	-32.25	≤-26	0.59566	≤2.5	PASS
			2480	30~1000	-54.00	≤-26	0.00398	≤2.5	PASS
				1000~2387	-43.89	≤-26	0.04083	≤2.5	PASS
				2387~2400	-43.48	≤-16	0.04487	≤25	PASS
				2483.5~2496.5	-41.91	≤-16	0.06442	≤25	PASS
				2496.5~13000	-41.53	≤-26	0.07031	≤2.5	PASS
	BLE_2M	Ant1	2402	30~1000	-53.74	≤-26	0.00423	≤2.5	PASS
				1000~2387	-46.99	≤-26	0.02000	≤2.5	PASS
				2387~2400	-23.81	≤-16	4.15911	≤25	PASS
				2483.5~2496.5	-43.22	≤-16	0.04764	≤25	PASS
				2496.5~13000	-40.98	≤-26	0.07980	≤2.5	PASS
			2440	30~1000	-53.58	≤-26	0.00439	≤2.5	PASS
				1000~2387	-45.76	≤-26	0.02655	≤2.5	PASS
				2387~2400	-43.38	≤-16	0.04592	≤25	PASS
				2483.5~2496.5	-43.34	≤-16	0.04634	≤25	PASS
				2496.5~13000	-41.51	≤-26	0.07063	≤2.5	PASS
			2480	30~1000	-53.77	≤-26	0.00420	≤2.5	PASS
				1000~2387	-44.48	≤-26	0.03565	≤2.5	PASS
				2387~2400	-43.51	≤-16	0.04457	≤25	PASS
				2483.5~2496.5	-42.62	≤-16	0.05470	≤25	PASS
				2496.5~13000	-41.98	≤-26	0.06339	≤2.5	PASS

Test Graphs

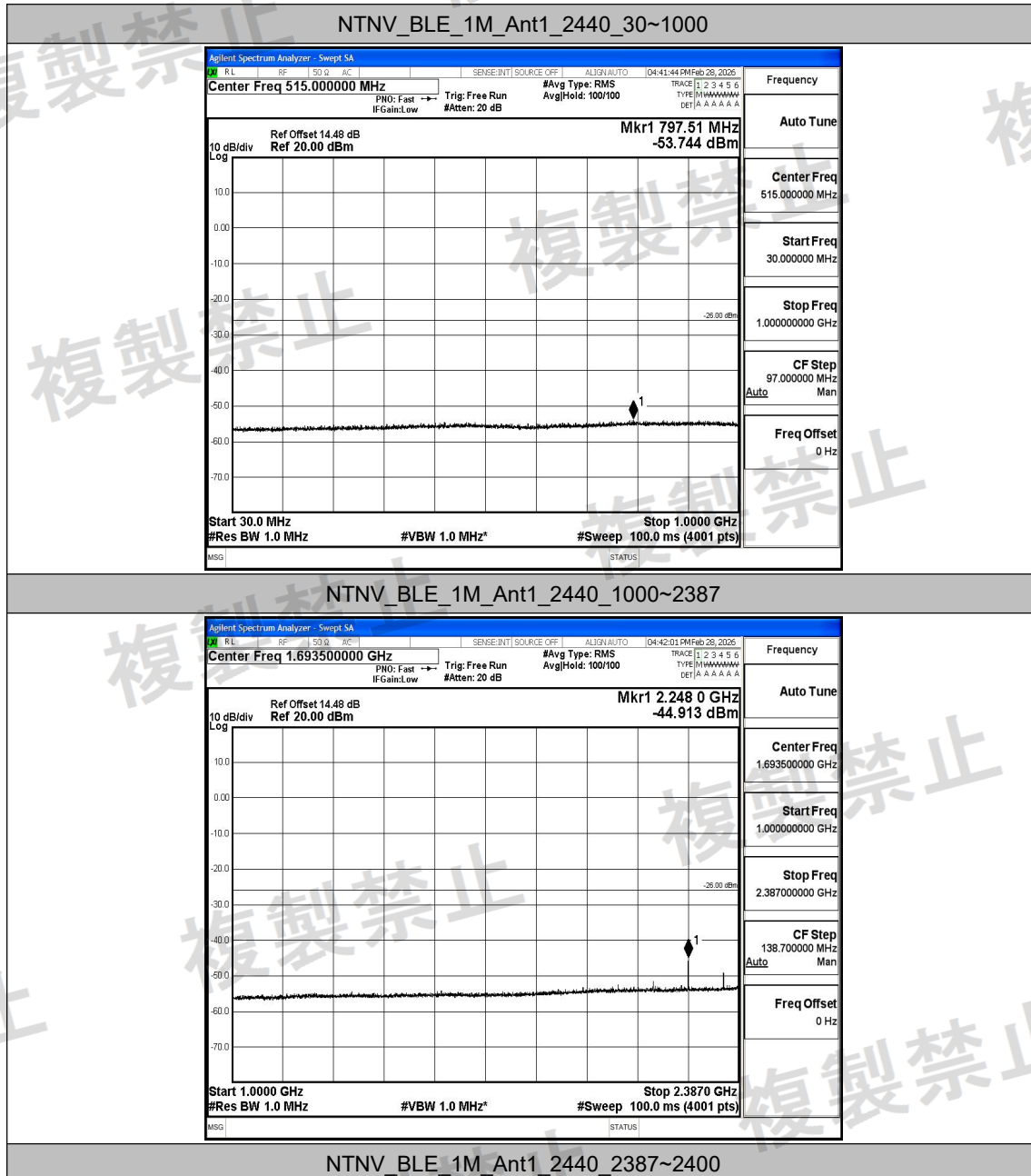


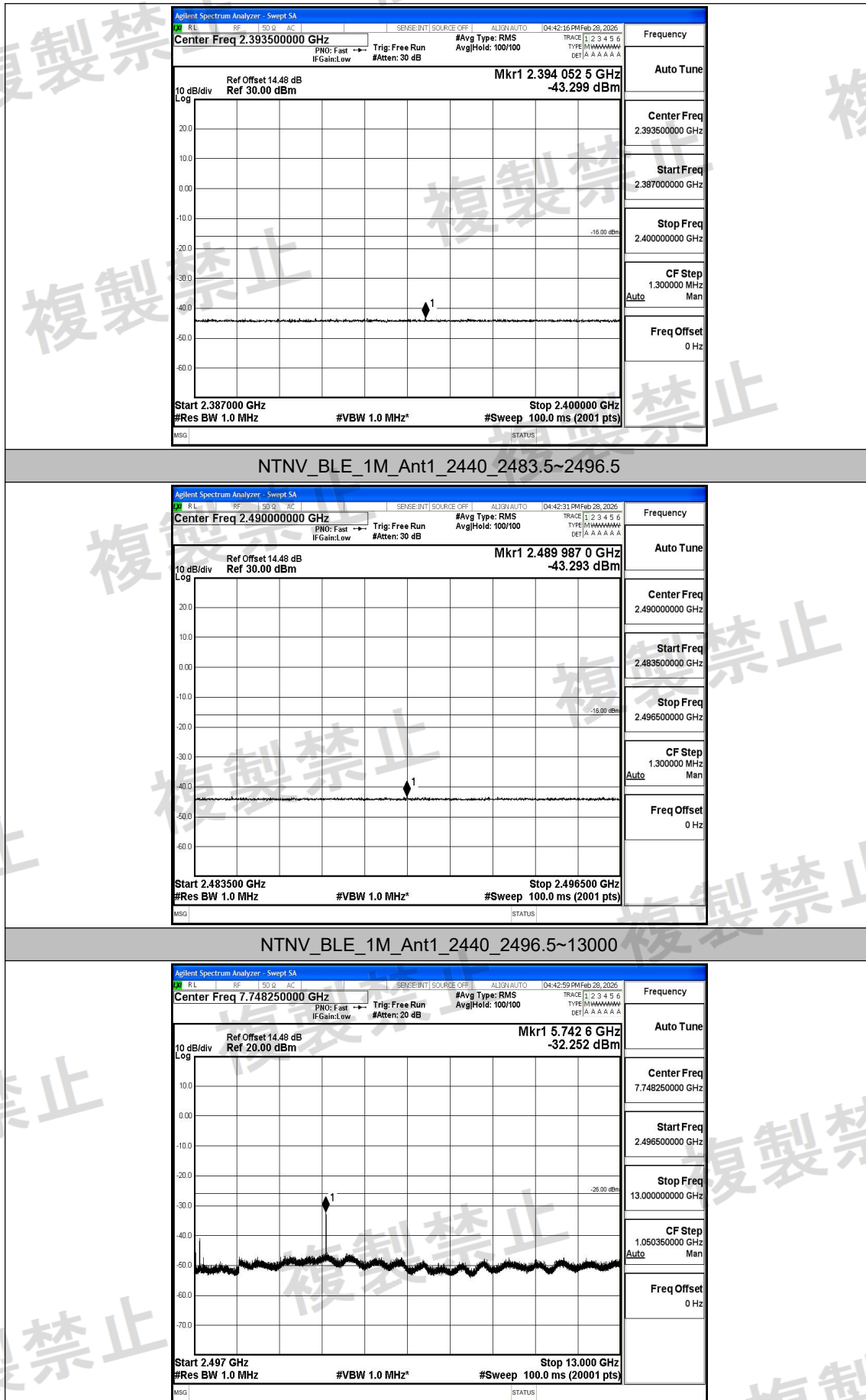


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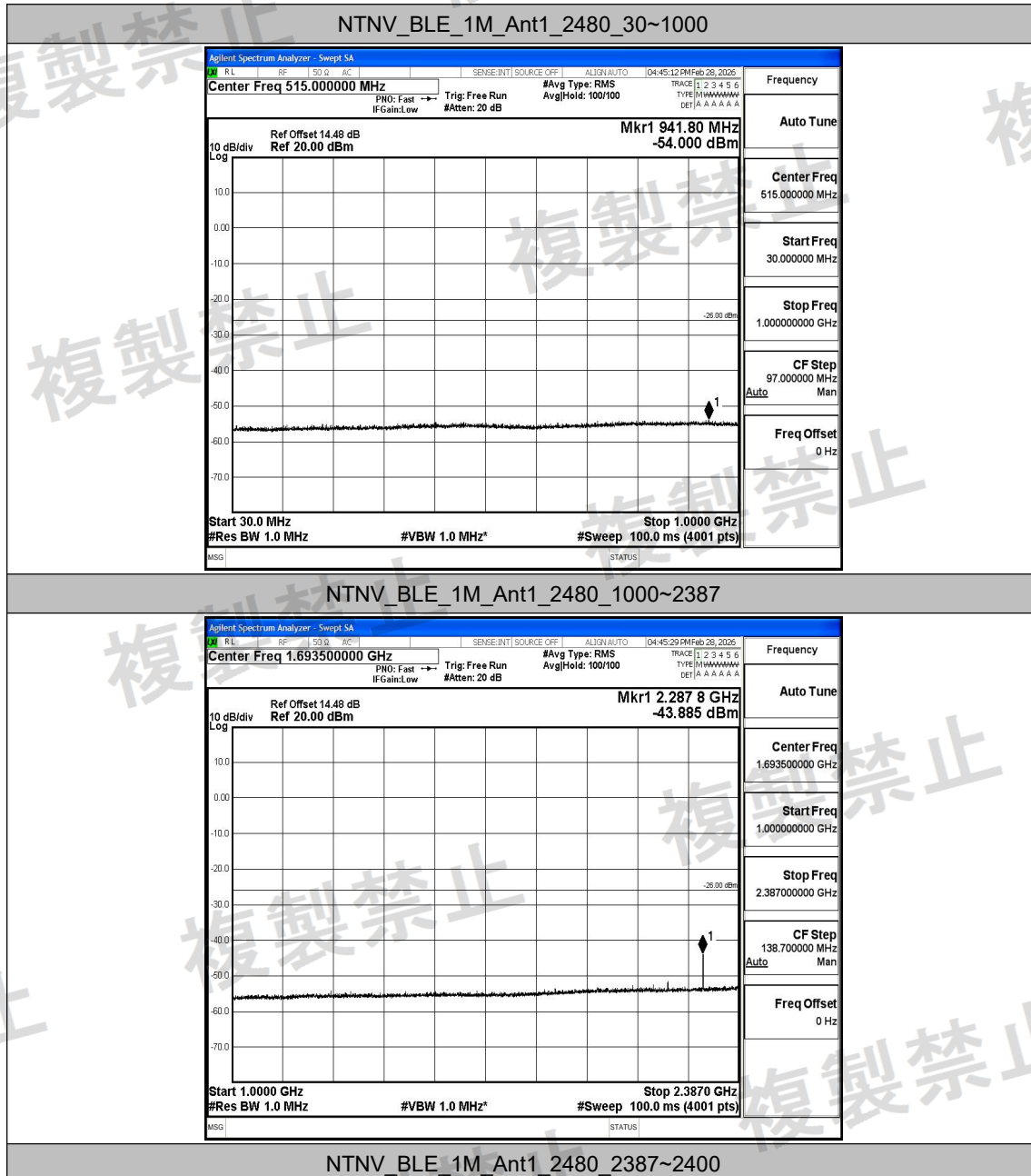


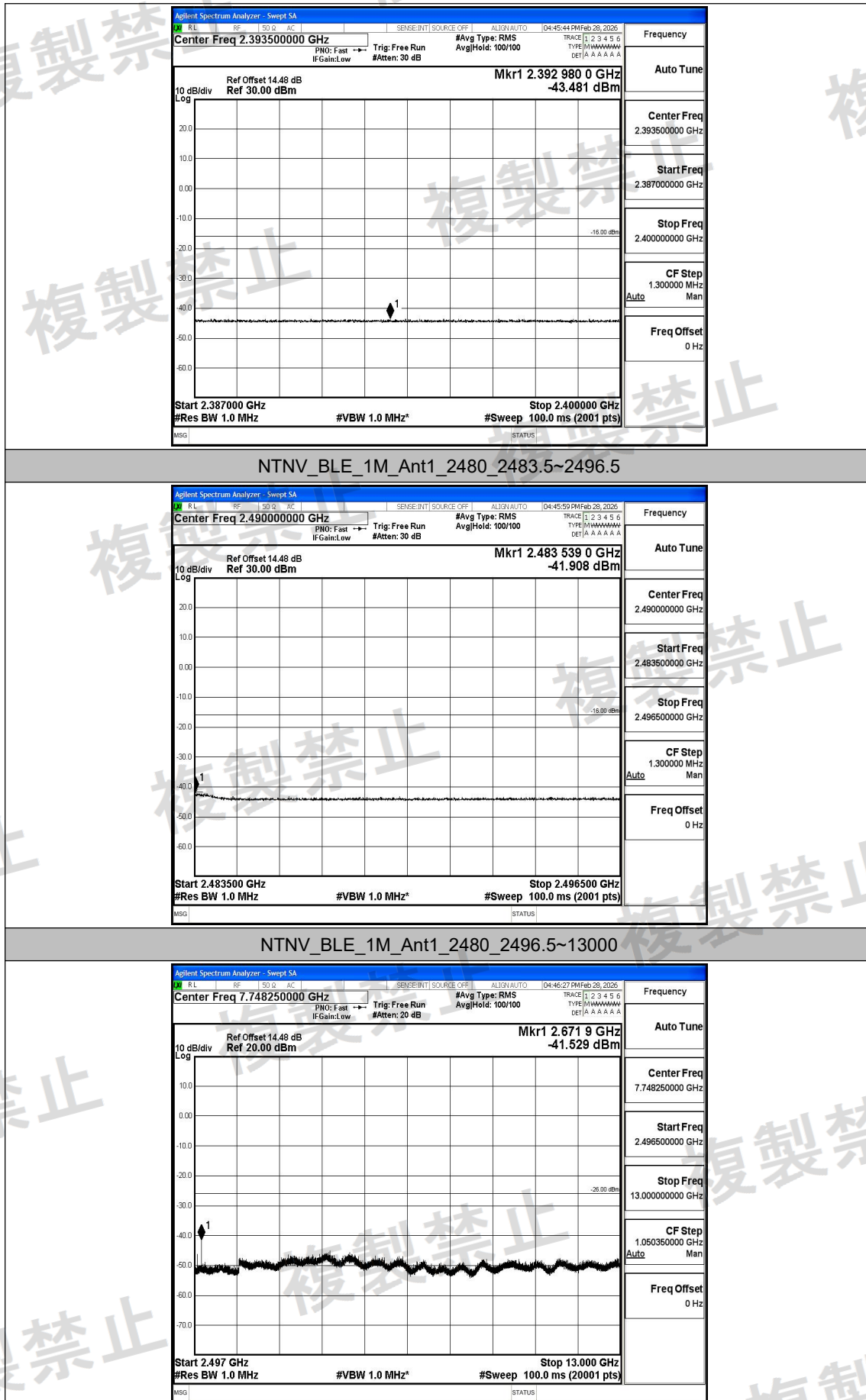


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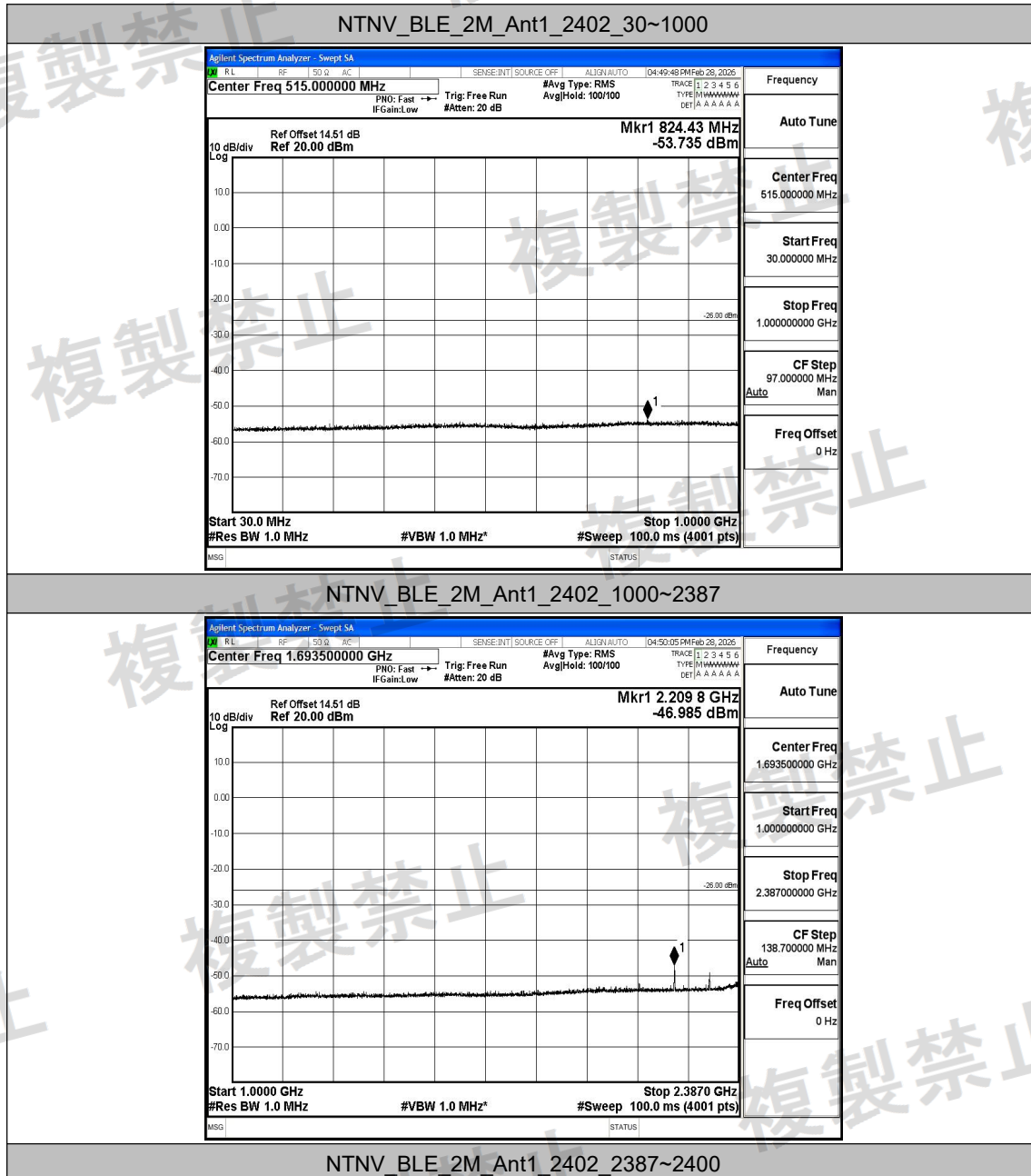


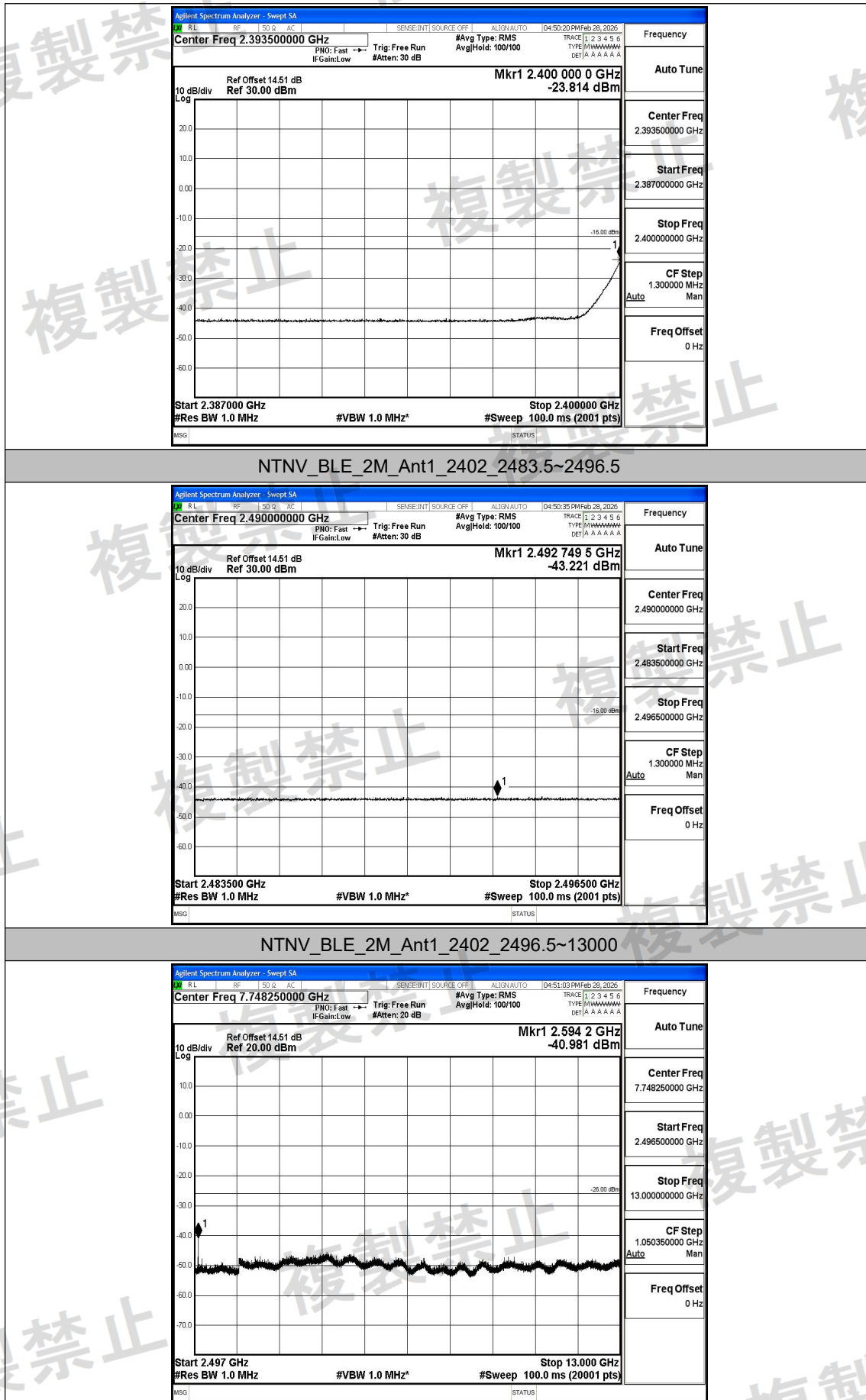


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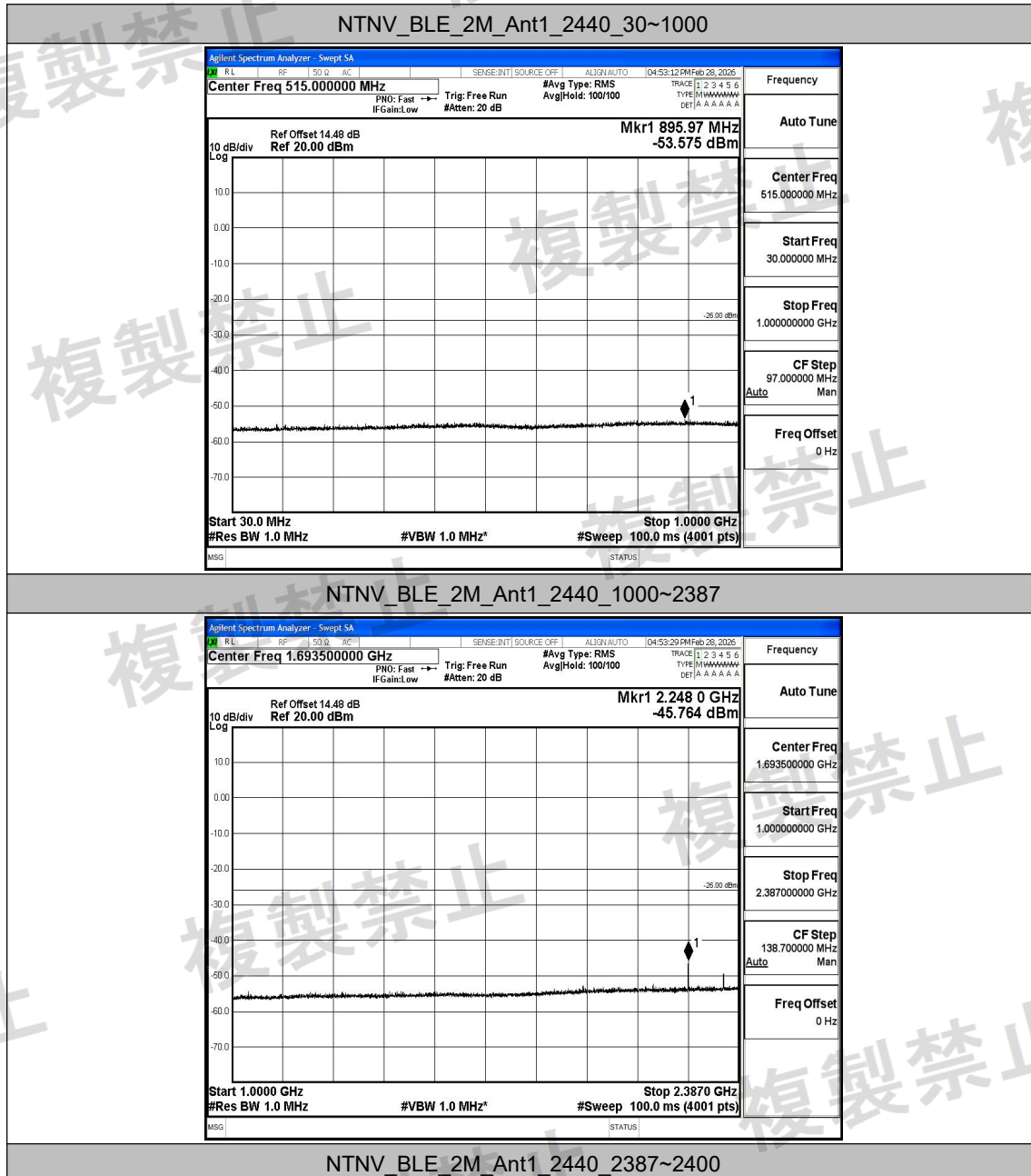


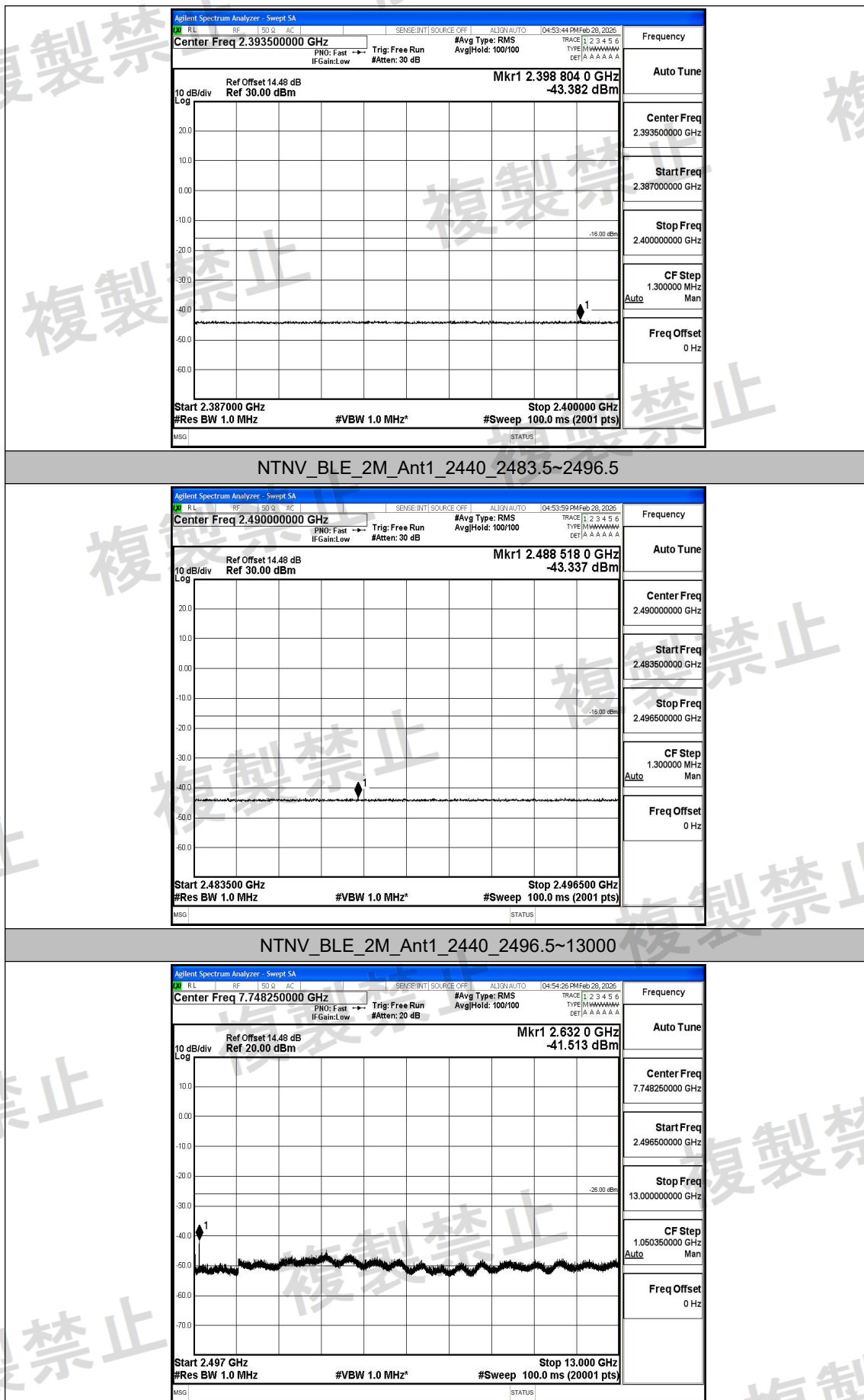


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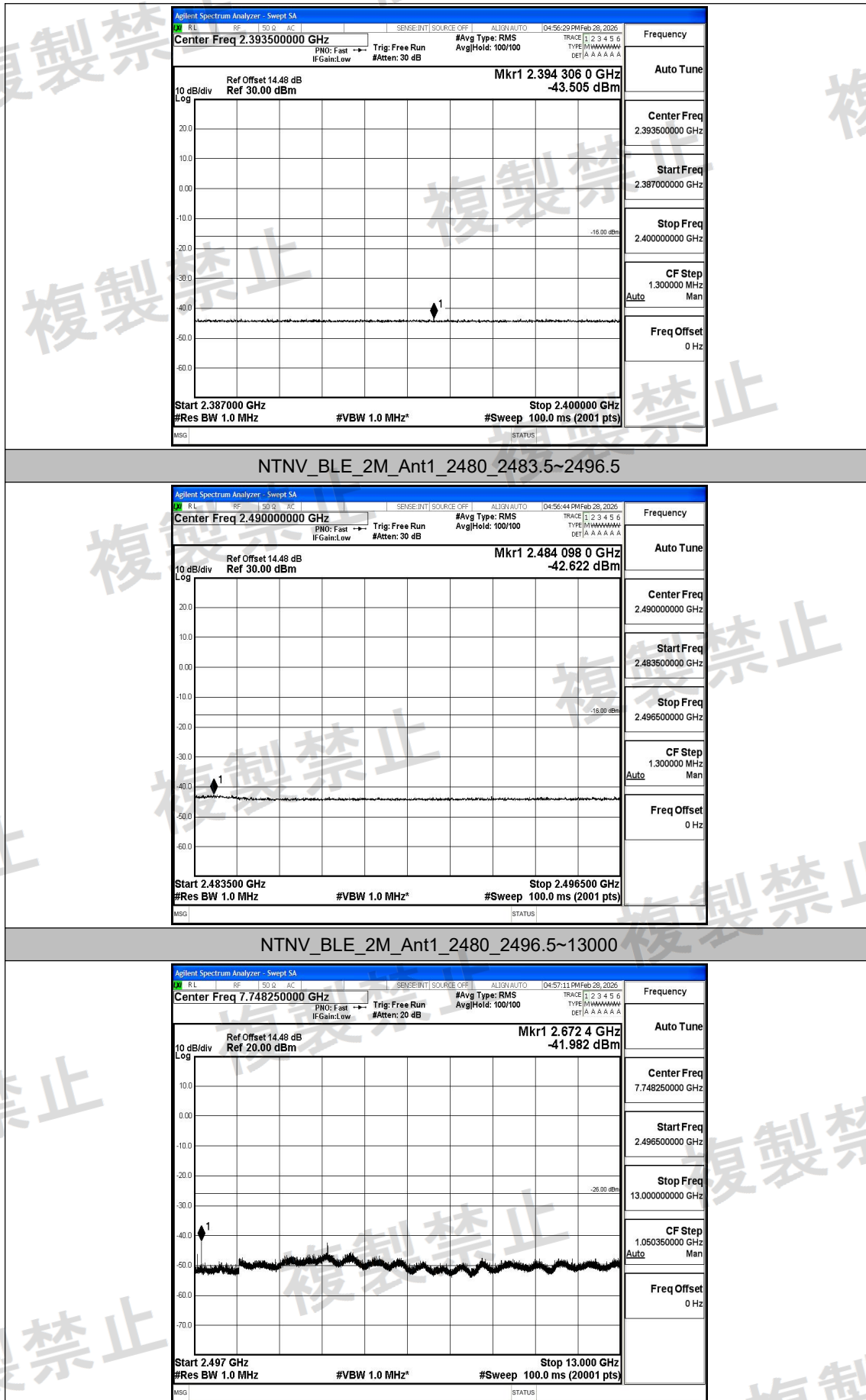


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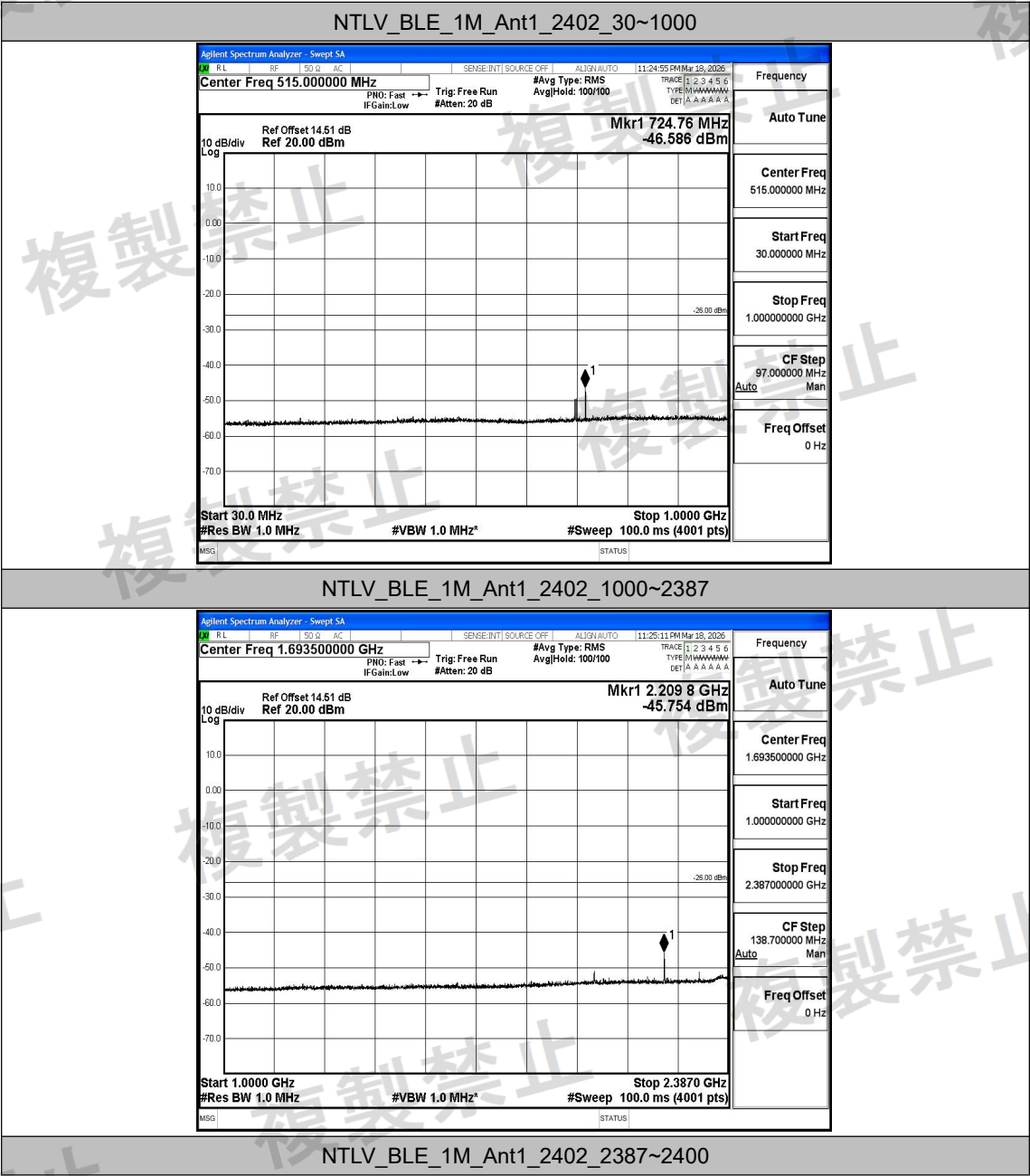
Guangzhou LCS Compliance Testing Laboratory Ltd.

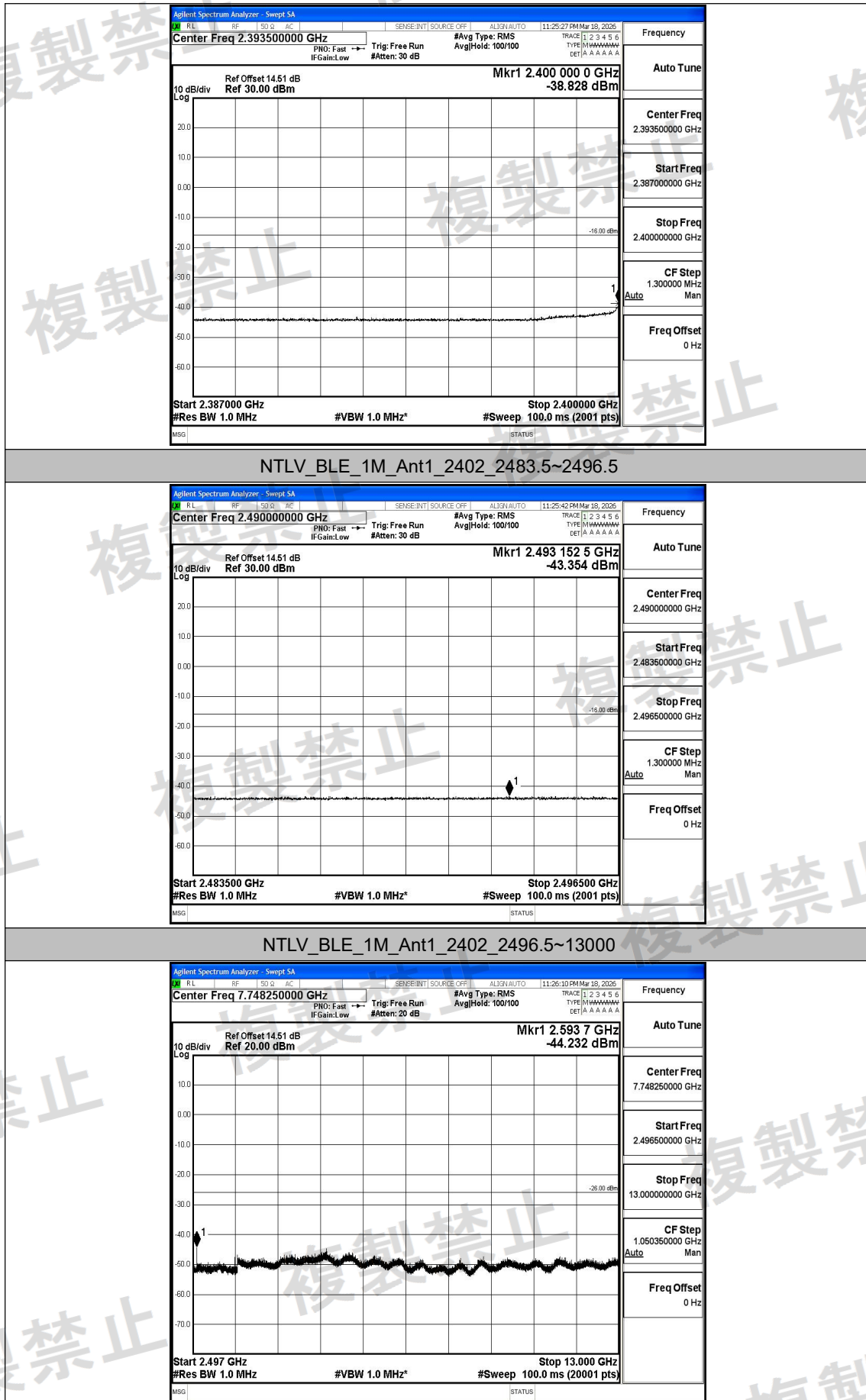
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TestCondition	TestMode	Antenna	Channel	Freq.Range [MHz]	Result [dBm]	Limit [dBm]	Result [μW]	Limit [μW]	Verdict
NTLV	BLE_1M	Ant1	2402	30~1000	-46.59	≤-26	0.02193	≤2.5	PASS
				1000~2387	-45.75	≤-26	0.02661	≤2.5	PASS
				2387~2400	-38.83	≤-16	0.13092	≤25	PASS
				2483.5~2496.5	-43.35	≤-16	0.04624	≤25	PASS
				2496.5~13000	-44.23	≤-26	0.03776	≤2.5	PASS
			2440	30~1000	-53.86	≤-26	0.00411	≤2.5	PASS
				1000~2387	-32.83	≤-26	0.52119	≤2.5	PASS
				2387~2400	-43.39	≤-16	0.04581	≤25	PASS
				2483.5~2496.5	-43.27	≤-16	0.04710	≤25	PASS
				2496.5~13000	-45.04	≤-26	0.03133	≤2.5	PASS
			2480	30~1000	-53.58	≤-26	0.00439	≤2.5	PASS
				1000~2387	-43.98	≤-26	0.03999	≤2.5	PASS
				2387~2400	-43.46	≤-16	0.04508	≤25	PASS
				2483.5~2496.5	-42.59	≤-16	0.05508	≤25	PASS
				2496.5~13000	-41.82	≤-26	0.06577	≤2.5	PASS
	BLE_2M	Ant1	2402	30~1000	-53.59	≤-26	0.00438	≤2.5	PASS
				1000~2387	-46.40	≤-26	0.02291	≤2.5	PASS
				2387~2400	-25.66	≤-16	2.71644	≤25	PASS
				2483.5~2496.5	-43.34	≤-16	0.04634	≤25	PASS
				2496.5~13000	-29.25	≤-26	1.18850	≤2.5	PASS
			2440	30~1000	-53.61	≤-26	0.00436	≤2.5	PASS
				1000~2387	-45.54	≤-26	0.02793	≤2.5	PASS
				2387~2400	-43.17	≤-16	0.04819	≤25	PASS
				2483.5~2496.5	-43.18	≤-16	0.04808	≤25	PASS
				2496.5~13000	-33.25	≤-26	0.47315	≤2.5	PASS
			2480	30~1000	-39.10	≤-26	0.12303	≤2.5	PASS
				1000~2387	-44.74	≤-26	0.03357	≤2.5	PASS
				2387~2400	-43.34	≤-16	0.04634	≤25	PASS
				2483.5~2496.5	-42.94	≤-16	0.05082	≤25	PASS
				2496.5~13000	-38.01	≤-26	0.15812	≤2.5	PASS

Test Graphs

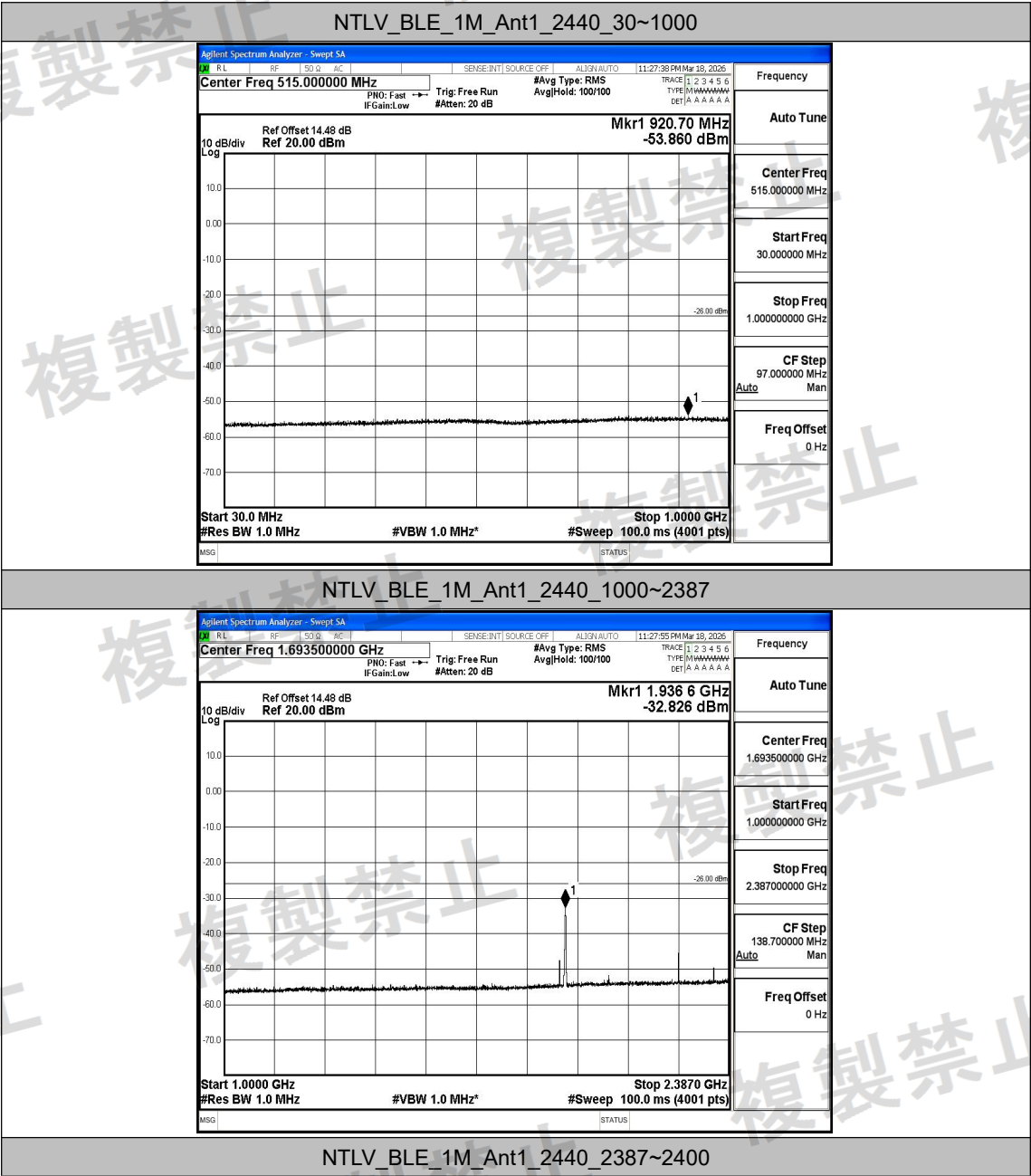


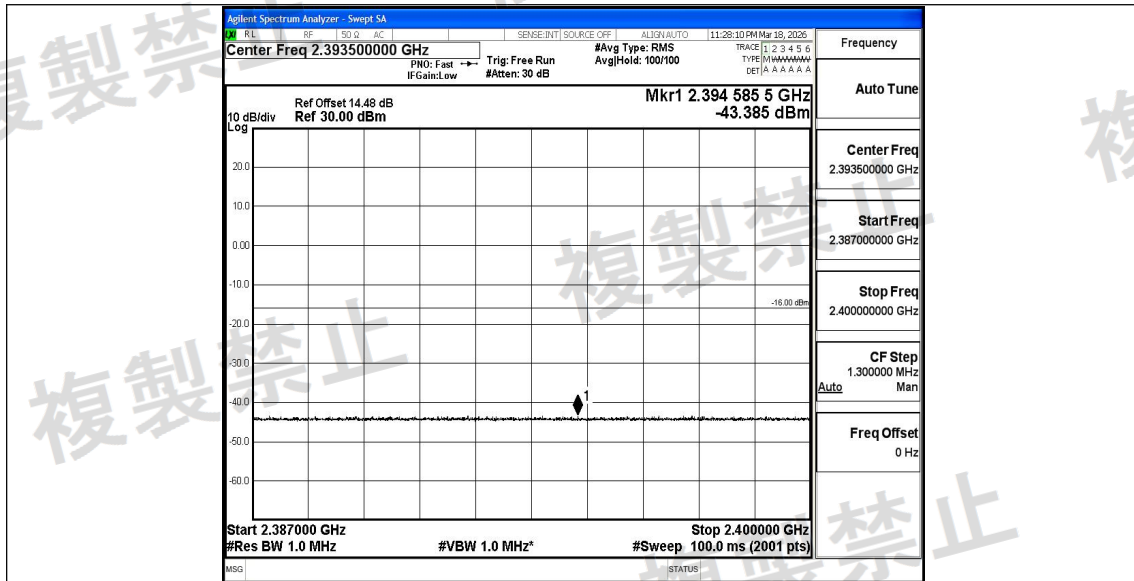


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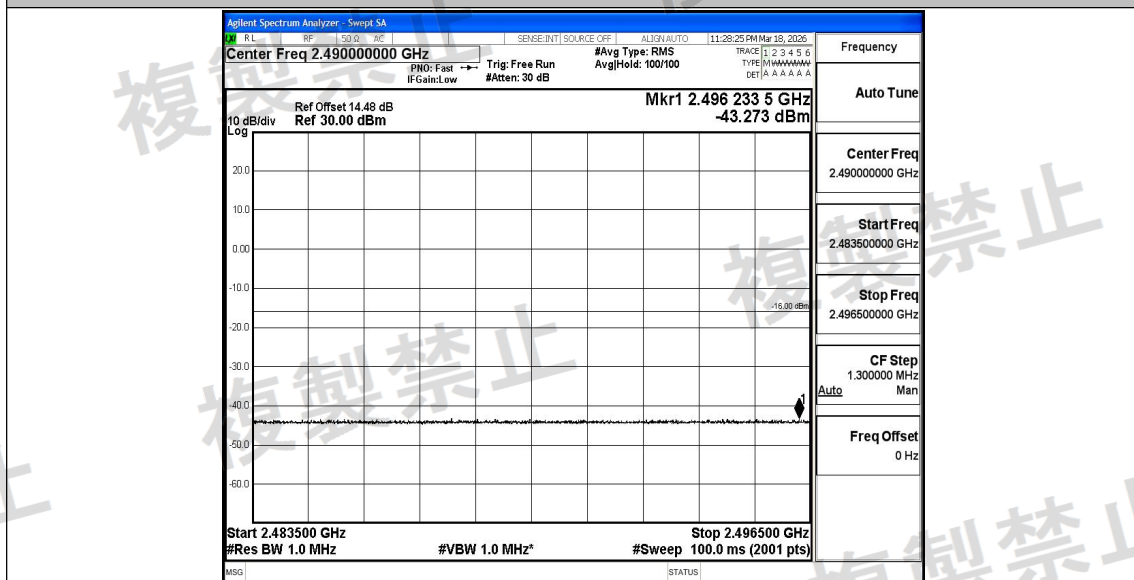
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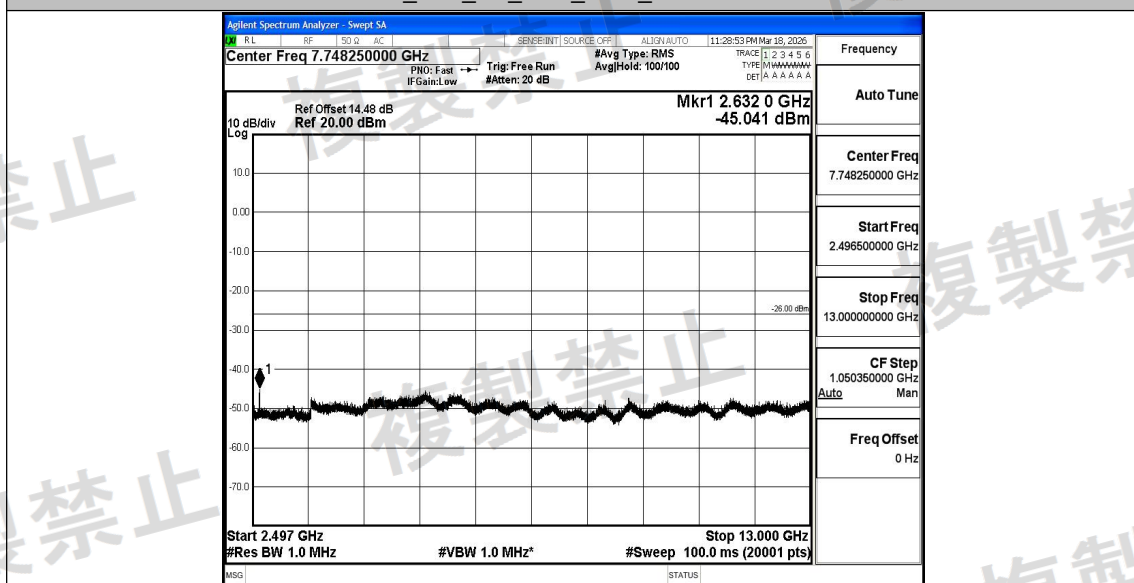




NTLV_BLE_1M_Ant1_2440_2483.5~2496.5



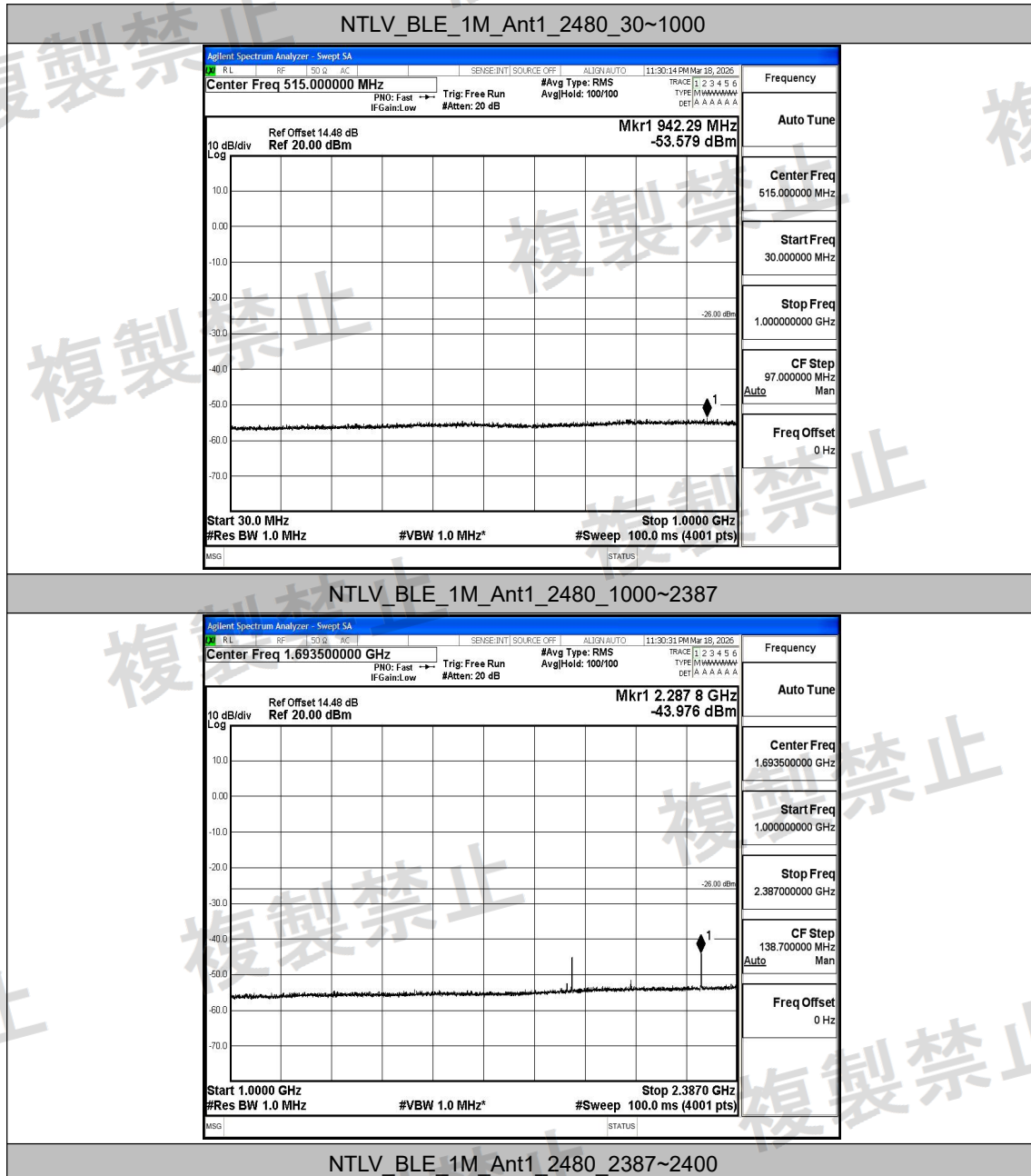
NTLV_BLE_1M_Ant1_2440_2496.5~13000

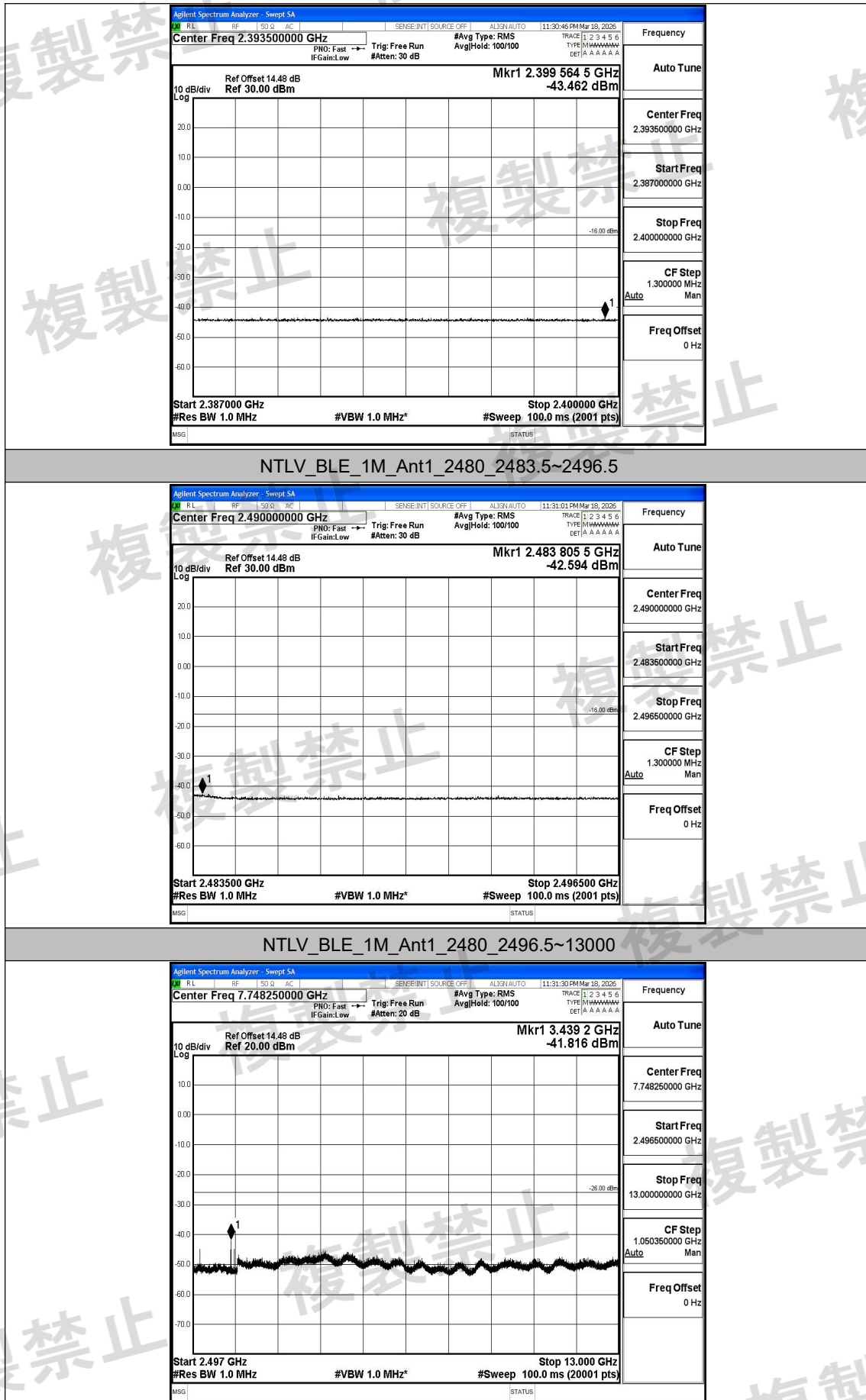


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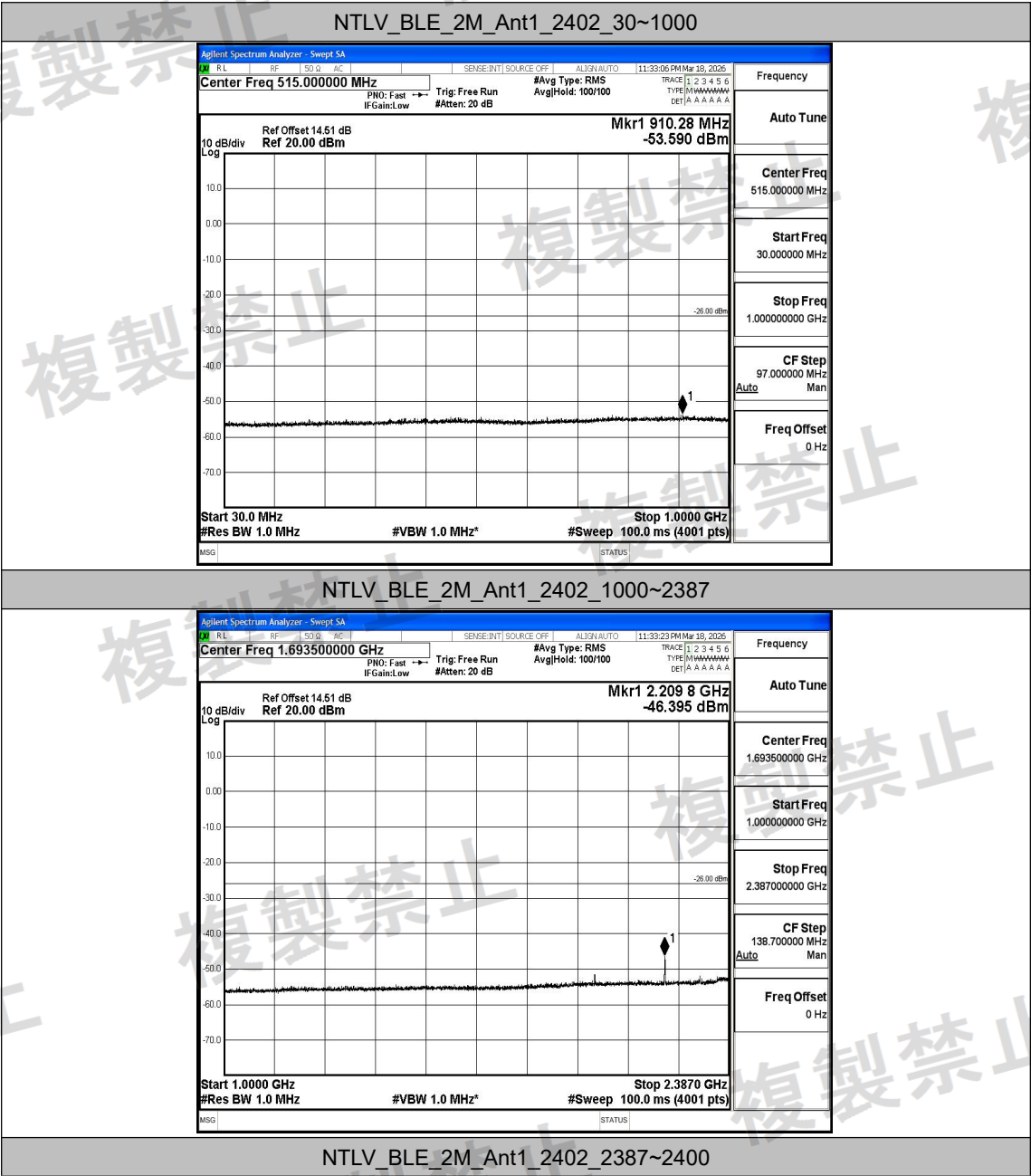


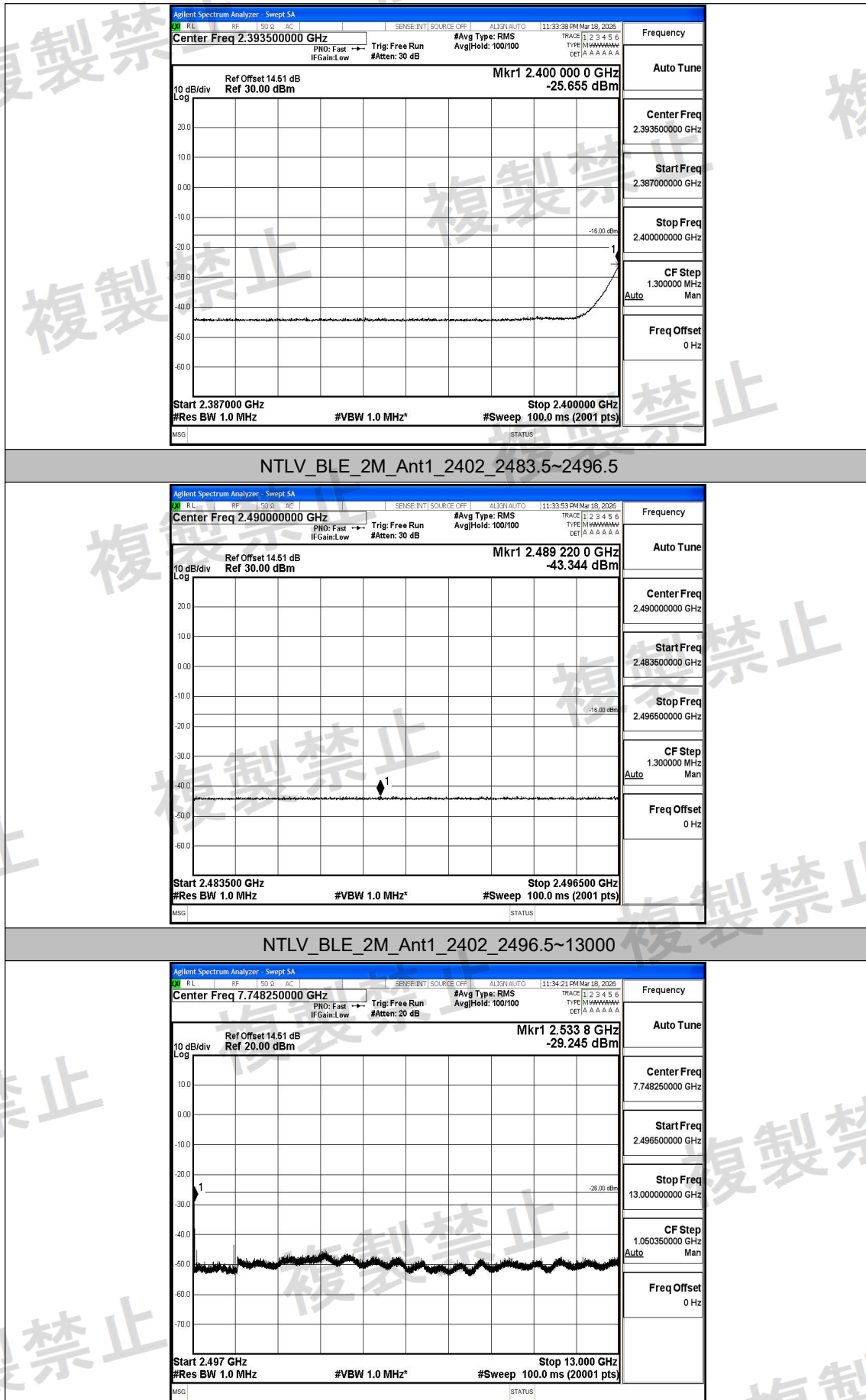


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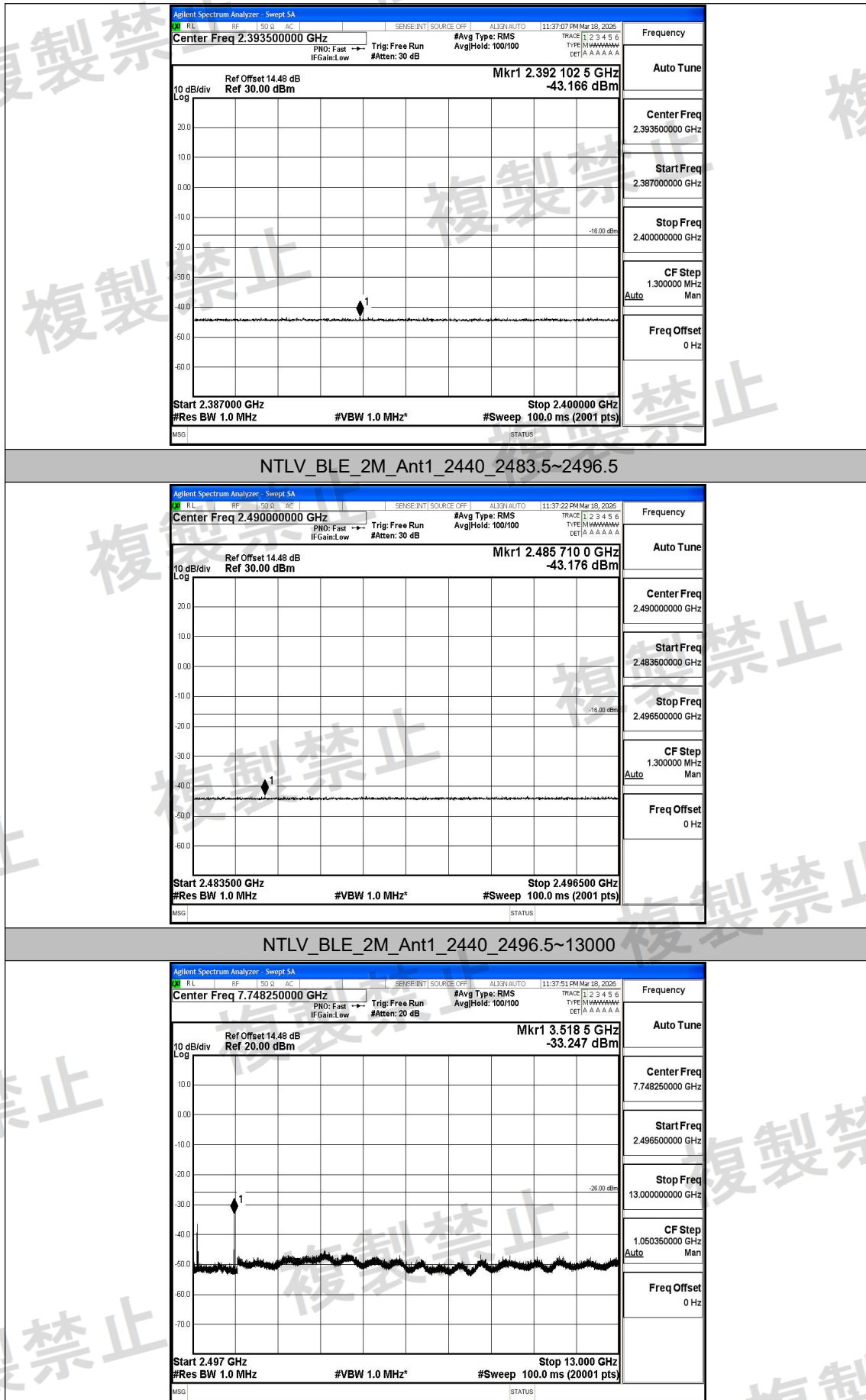


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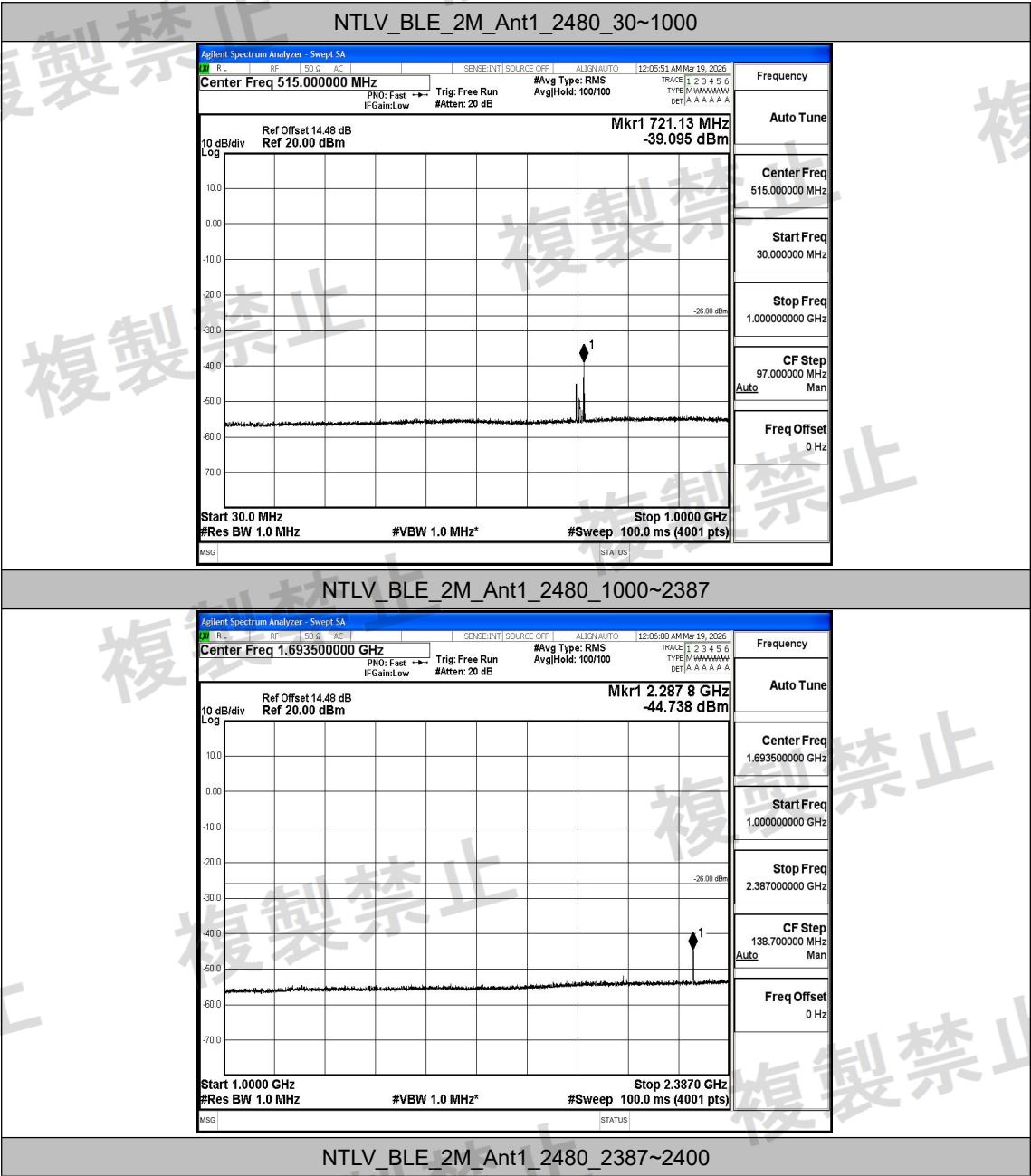


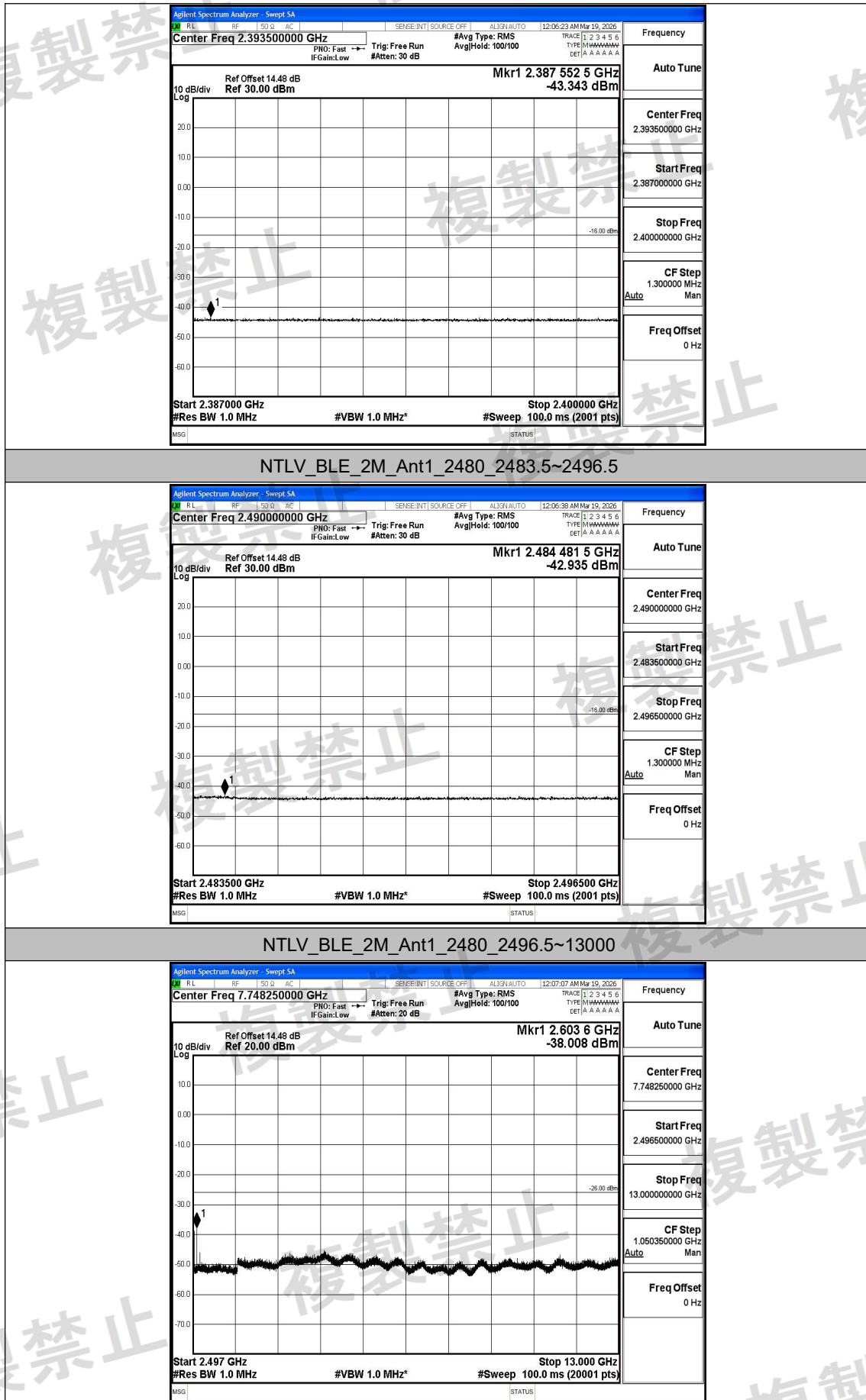


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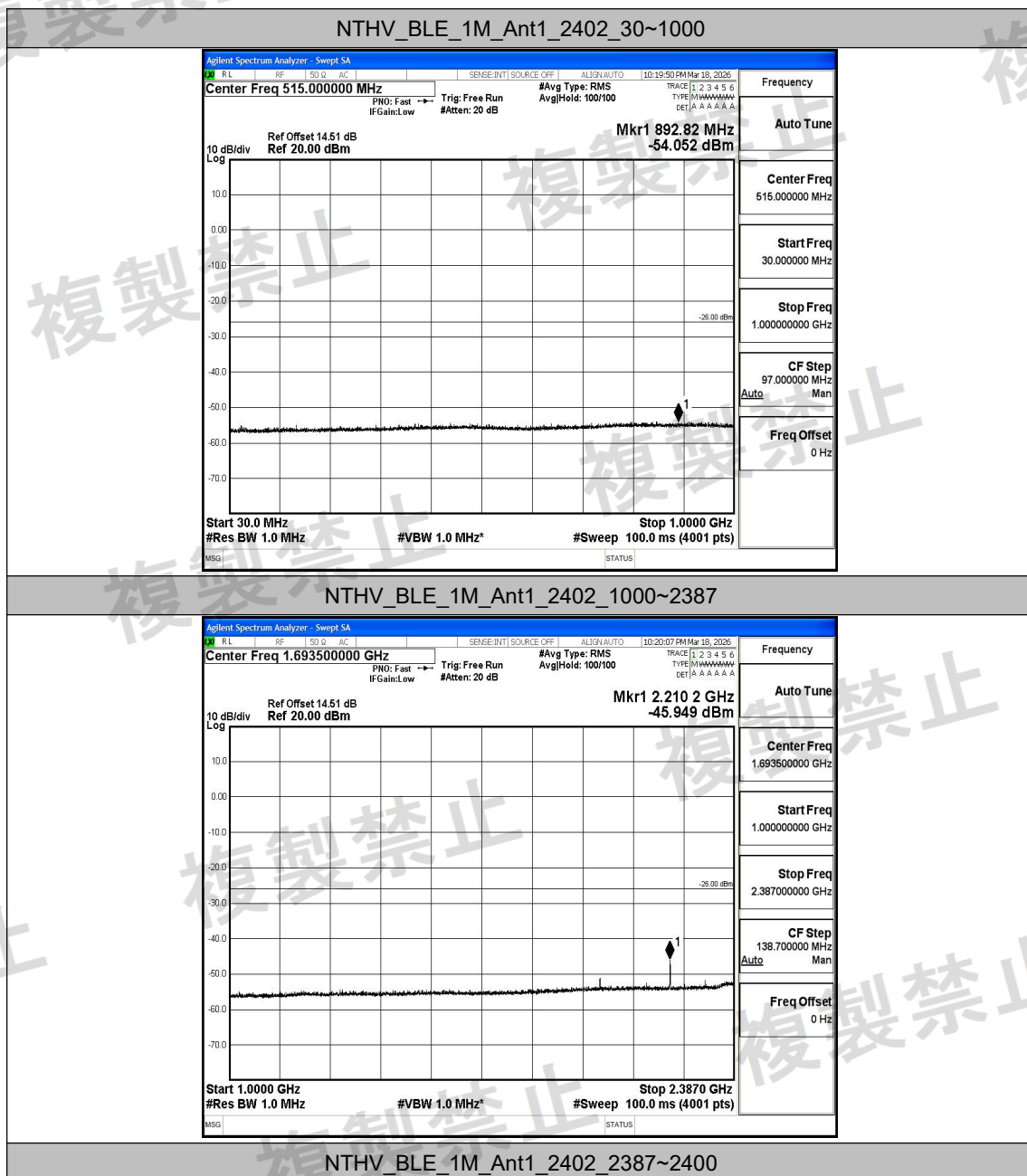
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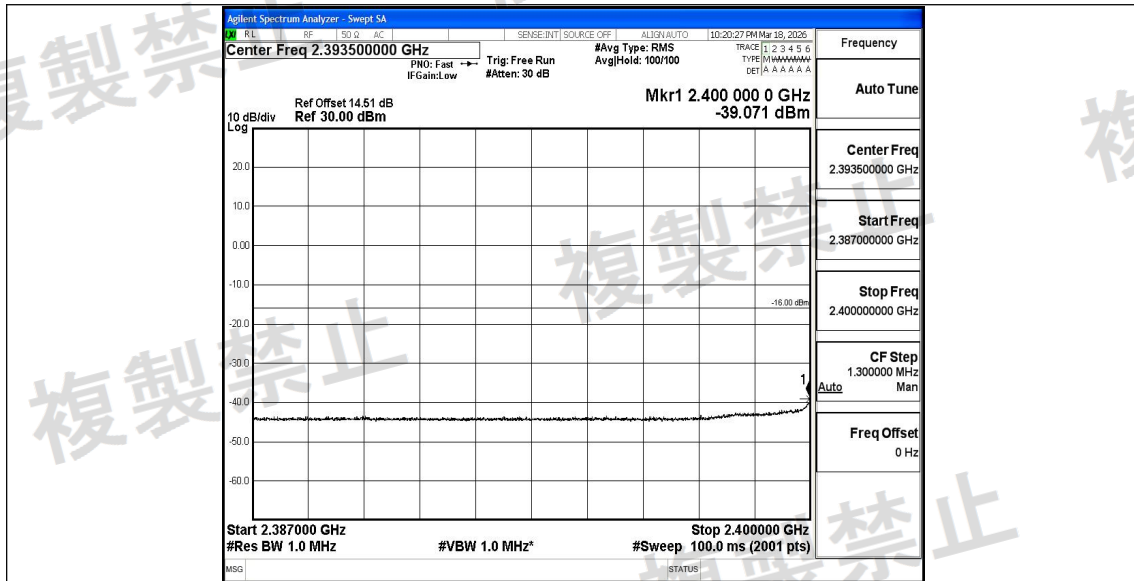
TestCondition	TestMode	Antenna	Channel	Freq.Range [MHz]	Result [dBm]	Limit [dBm]	Result [μW]	Limit [μW]	Verdict
NTHV	BLE_1M	Ant1	2402	30~1000	-54.05	≤-26	0.00394	≤2.5	PASS
				1000~2387	-45.95	≤-26	0.02541	≤2.5	PASS
				2387~2400	-39.07	≤-16	0.12388	≤25	PASS
				2483.5~2496.5	-43.09	≤-16	0.04909	≤25	PASS
				2496.5~13000	-35.58	≤-26	0.27669	≤2.5	PASS
			2440	30~1000	-53.74	≤-26	0.00423	≤2.5	PASS
				1000~2387	-44.87	≤-26	0.03258	≤2.5	PASS
				2387~2400	-43.10	≤-16	0.04898	≤25	PASS
				2483.5~2496.5	-43.29	≤-16	0.04688	≤25	PASS
				2496.5~13000	-30.46	≤-26	0.89950	≤2.5	PASS
		2480		30~1000	-48.97	≤-26	0.01268	≤2.5	PASS
				1000~2387	-44.13	≤-26	0.03864	≤2.5	PASS
				2387~2400	-43.40	≤-16	0.04571	≤25	PASS
				2483.5~2496.5	-42.71	≤-16	0.05358	≤25	PASS
				2496.5~13000	-32.83	≤-26	0.52119	≤2.5	PASS
	BLE_2M	Ant1	2402	30~1000	-53.91	≤-26	0.00406	≤2.5	PASS
				1000~2387	-46.61	≤-26	0.02183	≤2.5	PASS
				2387~2400	-25.86	≤-16	2.59418	≤25	PASS
				2483.5~2496.5	-43.29	≤-16	0.04688	≤25	PASS
				2496.5~13000	-43.82	≤-26	0.04150	≤2.5	PASS
			2440	30~1000	-53.99	≤-26	0.00399	≤2.5	PASS
				1000~2387	-36.23	≤-26	0.23823	≤2.5	PASS
				2387~2400	-43.37	≤-16	0.04603	≤25	PASS
				2483.5~2496.5	-43.23	≤-16	0.04753	≤25	PASS
				2496.5~13000	-25.99	≤-26	2.51768	≤2.5	PASS
		2480		30~1000	-43.85	≤-26	0.04121	≤2.5	PASS
				1000~2387	-44.80	≤-26	0.03311	≤2.5	PASS
				2387~2400	-43.32	≤-16	0.04656	≤25	PASS
				2483.5~2496.5	-43.19	≤-16	0.04797	≤25	PASS
				2496.5~13000	-45.33	≤-26	0.02931	≤2.5	PASS

Test Result_Step2

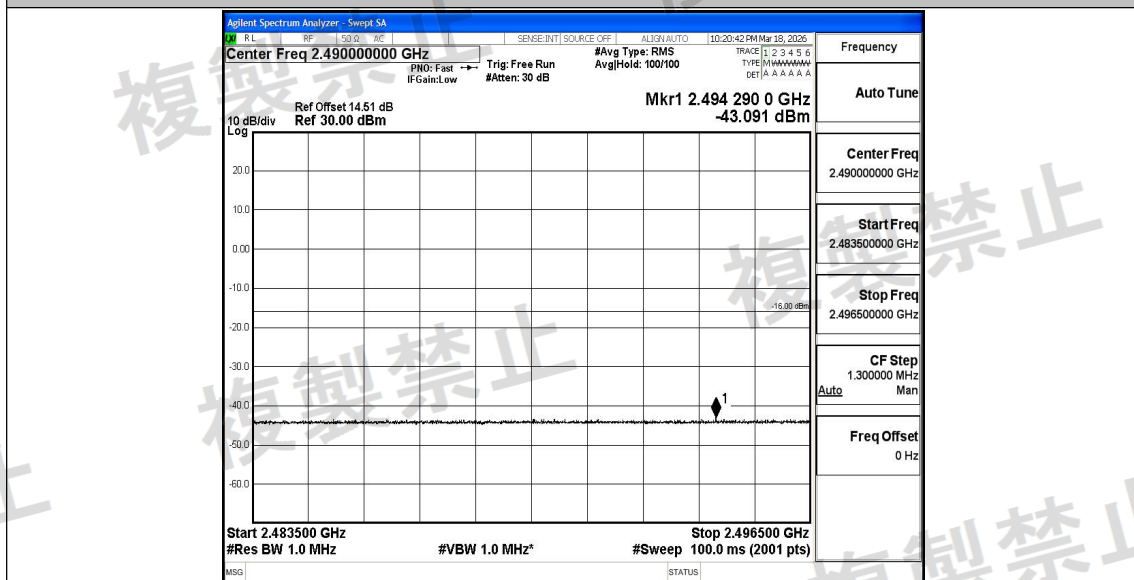
TestCondition	TestMode	Antenna	Channel	Freq.Range [MHz]	Result [dBm]	Limit [dBm]	Result [μW]	Limit [μW]	Verdict
NTHV	BLE_2M	Ant1	2440	2519.43	-65.15	≤-26	0.00031	≤2.5	PASS

Test Graphs

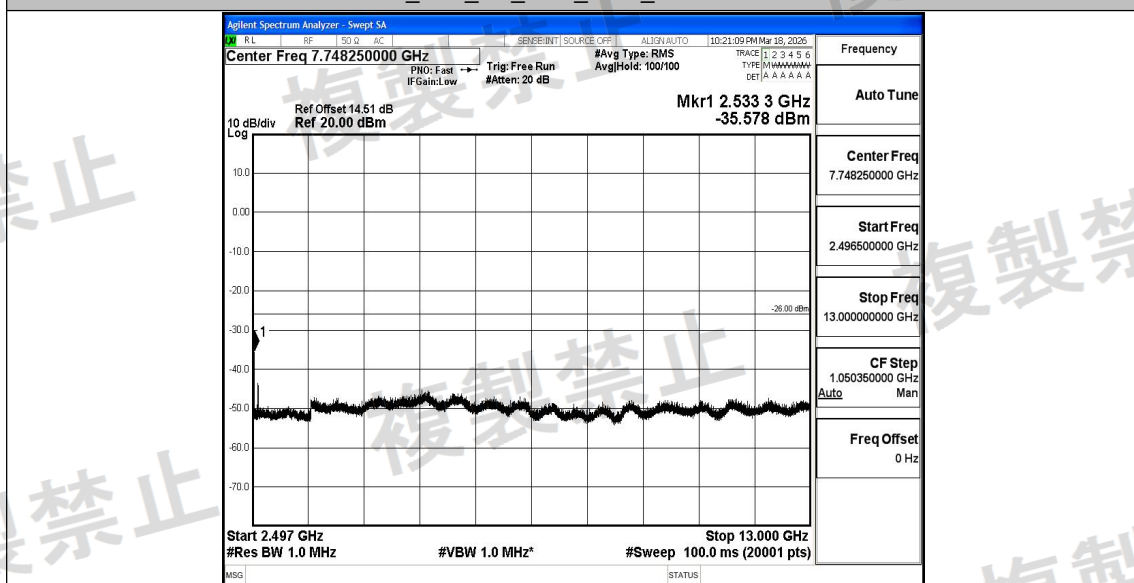




NTHV_BLE_1M_Ant1_2402_2483.5~2496.5



NTHV_BLE_1M_Ant1_2402_2496.5~13000



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