



Shenzhen CTA Testing Technology Co., Ltd.

Room 106, Building 1, Yibaolai Industrial Park, Qiaotou Community,
Fuhai Street, Bao'an District, Shenzhen, China

Appendix RF Test Data for 5.1GWIFI

Company : Zhuhai Chaohai Technology Co., Ltd

EUT : Wireless HD TransmitterReceiver Kit

Model Number : G146

Report No. : CTA26061100401

Reviewed By : Eric Wang



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Appendix A: Frequency Error

Test Result

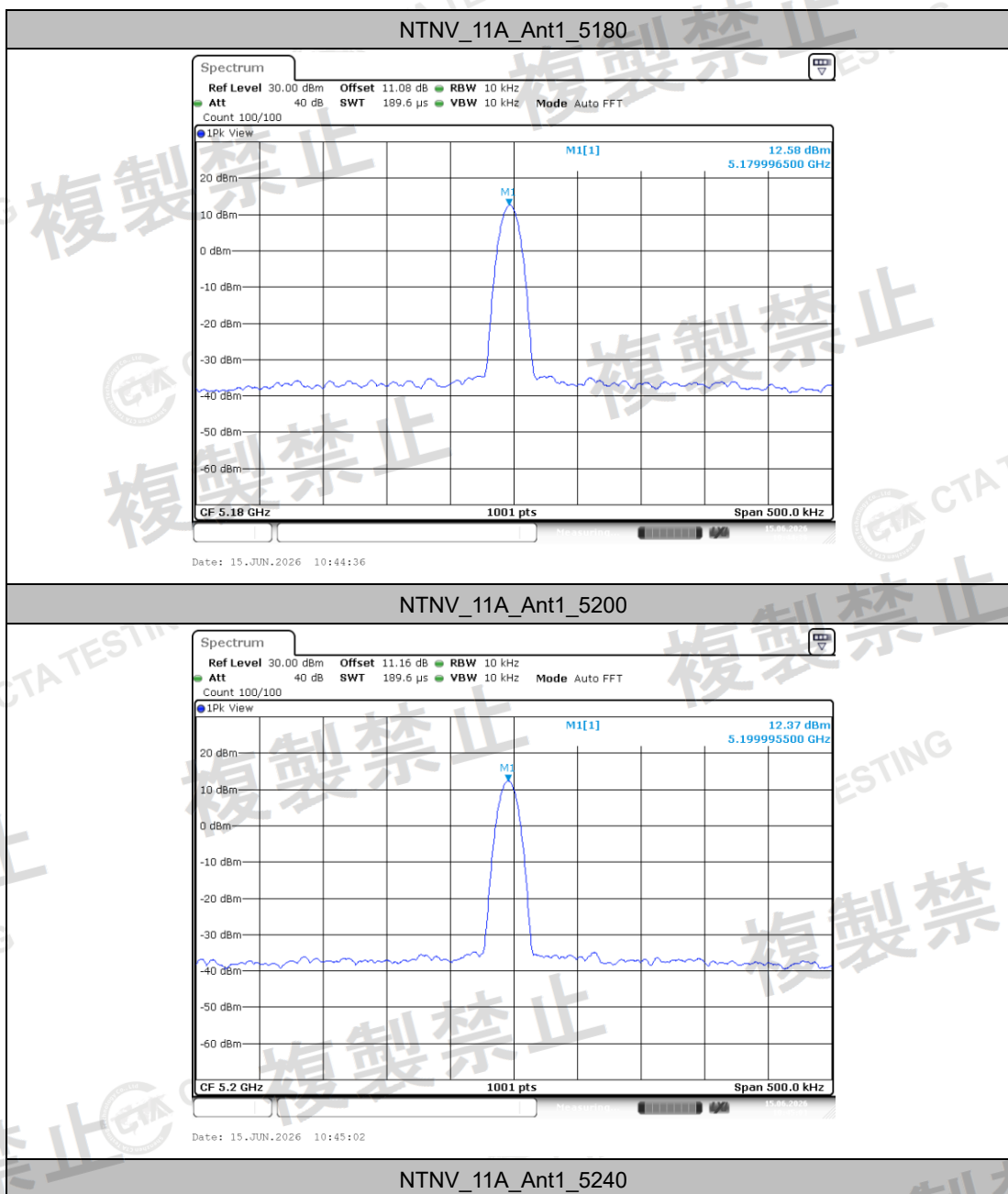
TestCondition	TestMode	Antenna	Freq(M Hz)	CenterFreq [MHz]	Result [ppm]	Limit [ppm]	Verdict
NTNV	11A	Ant1	5180	5179.9965	-0.67568	±20	PASS
			5200	5199.9955	-0.86539	±20	PASS
			5240	5239.9945 1	-1.04771	±20	PASS
	11N40SI SO	Ant1	5190	5189.9940 1	-1.15414	±20	PASS
			5230	5229.9925 1	-1.43212	±20	PASS



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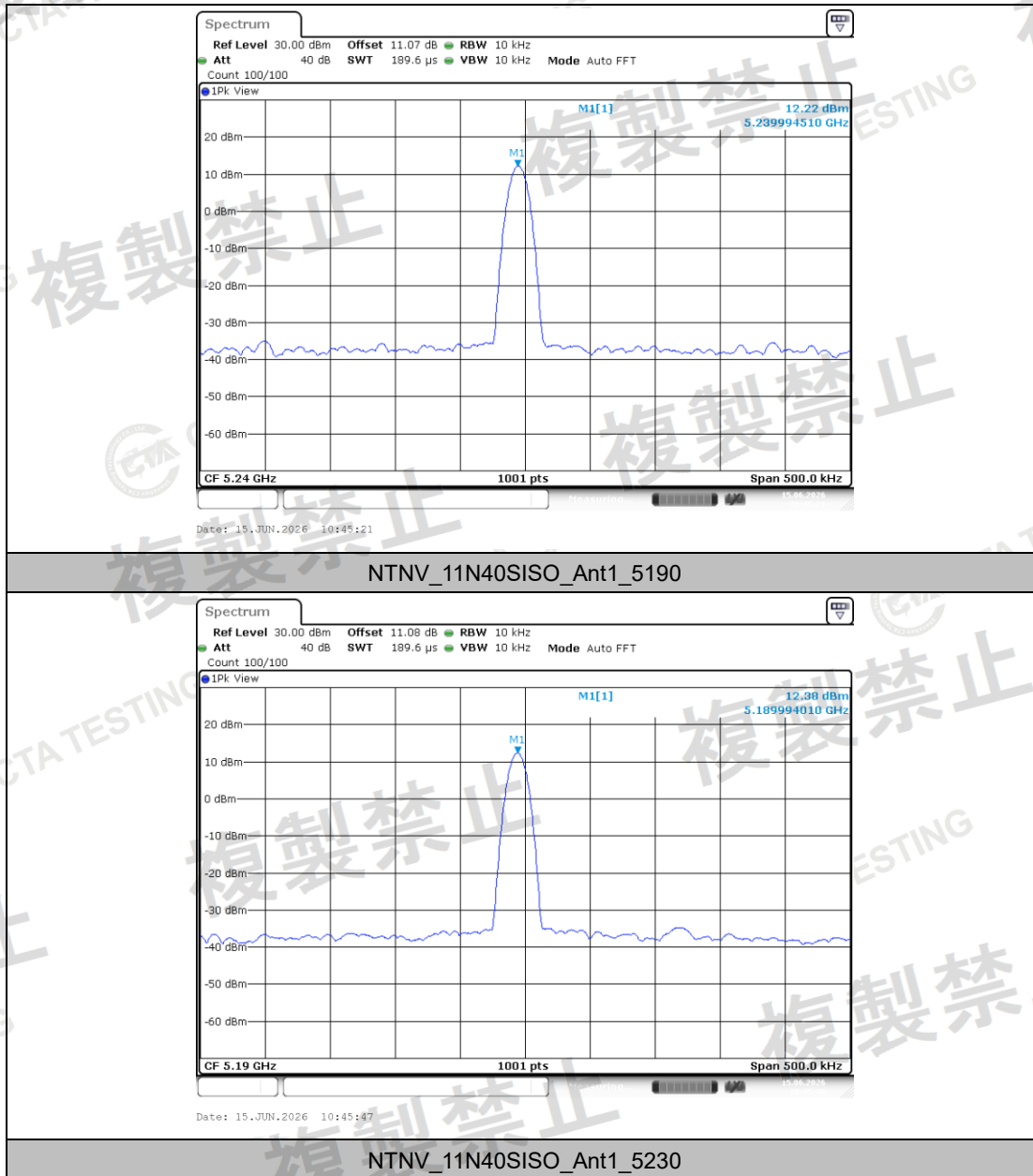
Test Graphs





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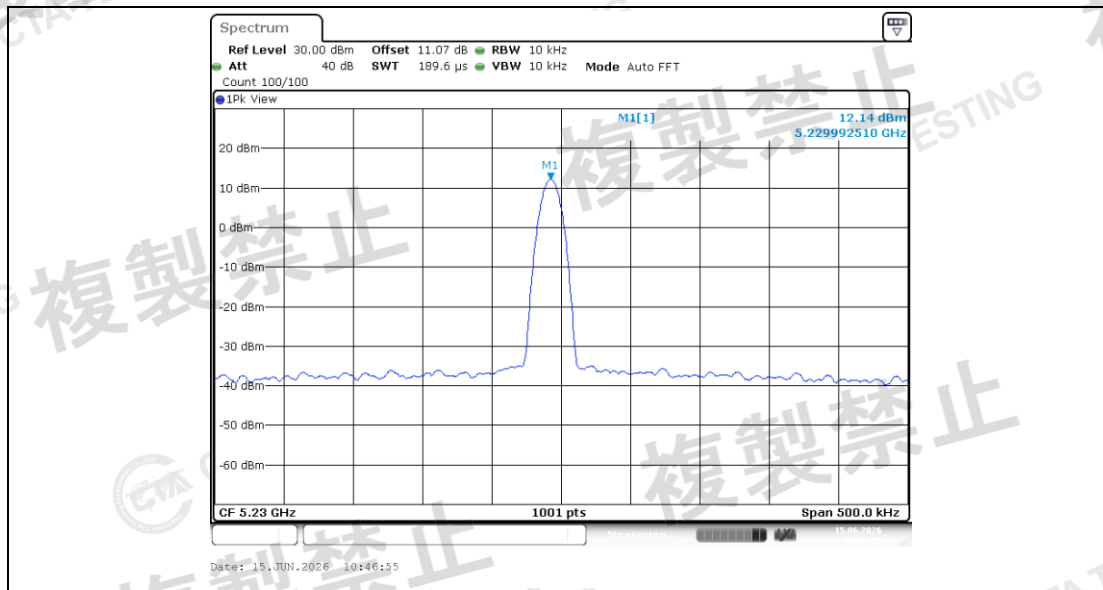
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Appendix B: Occupied Bandwidth

Test Result

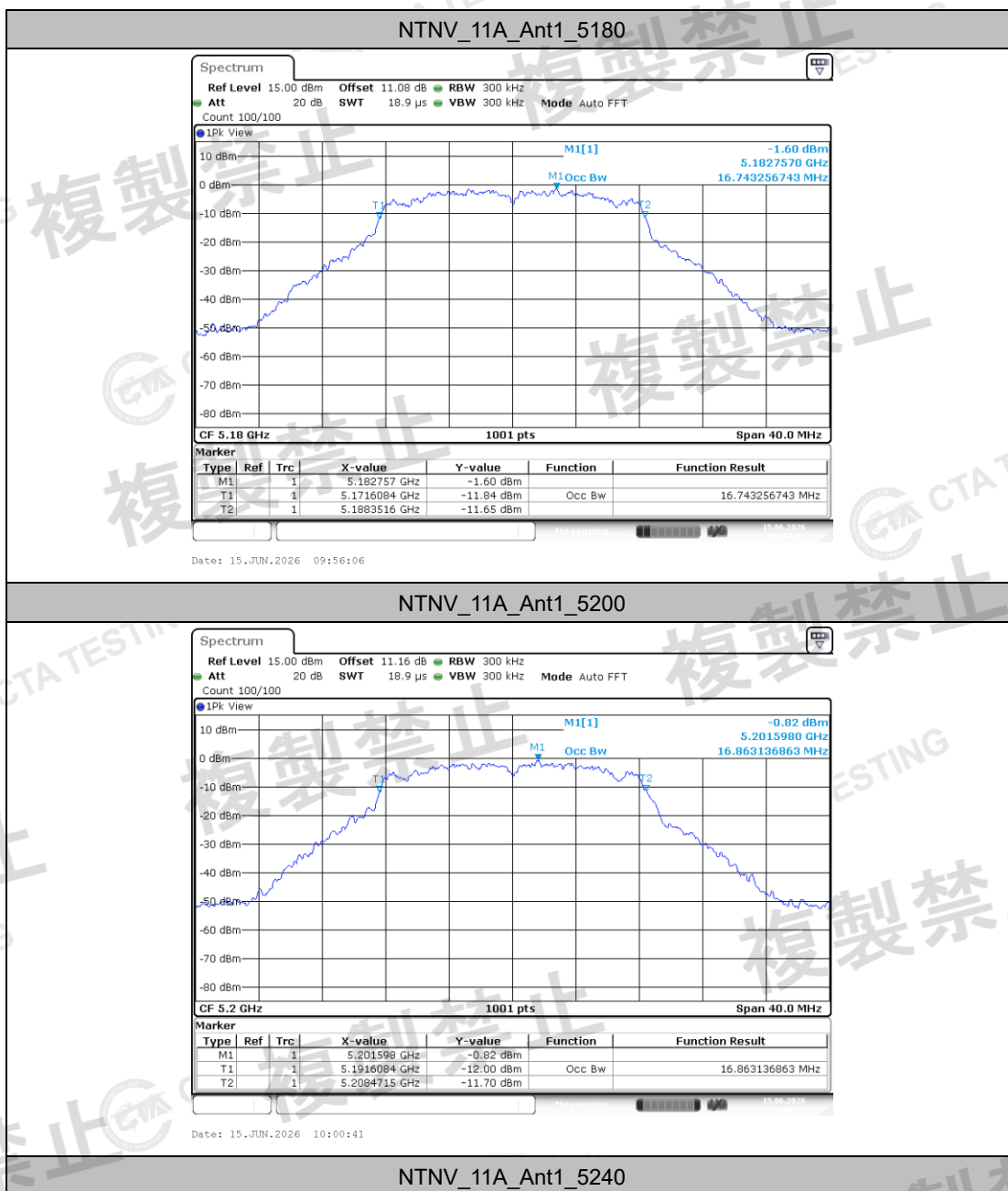
TestCondition	TestMode	Antenna	Freq(MHz)	Result [MHz]	Limit [MHz]	Verdict
NTNV	11A	Ant1	5180	16.743	≤20	PASS
			5200	16.863	≤20	PASS
			5240	16.703	≤20	PASS
	11N20SI SO	Ant1	5180	17.782	≤20	PASS
			5200	17.782	≤20	PASS
			5240	17.902	≤20	PASS
	11N40SI SO	Ant1	5190	35.964	≤40	PASS
			5230	35.964	≤40	PASS



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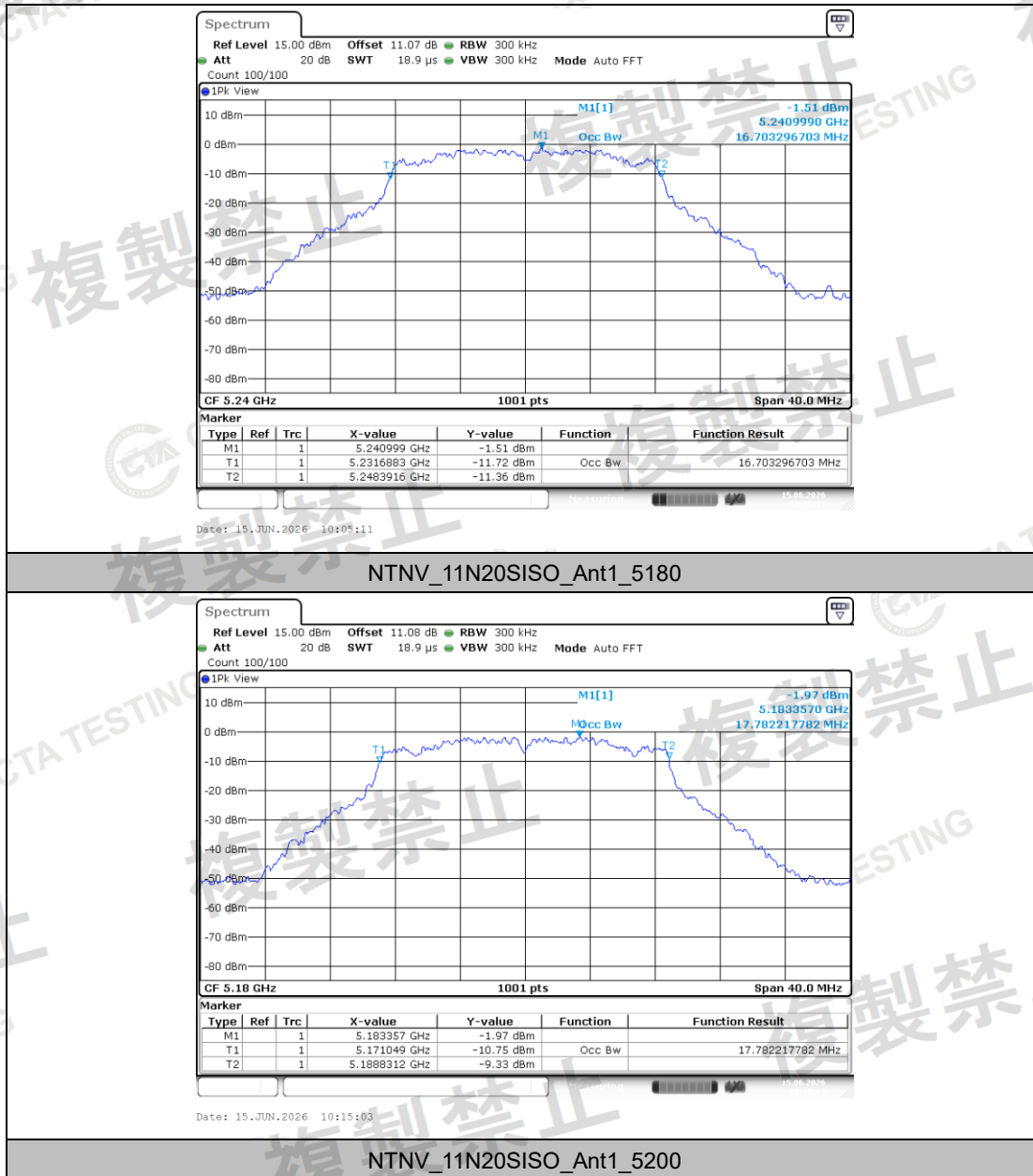
Test Graphs





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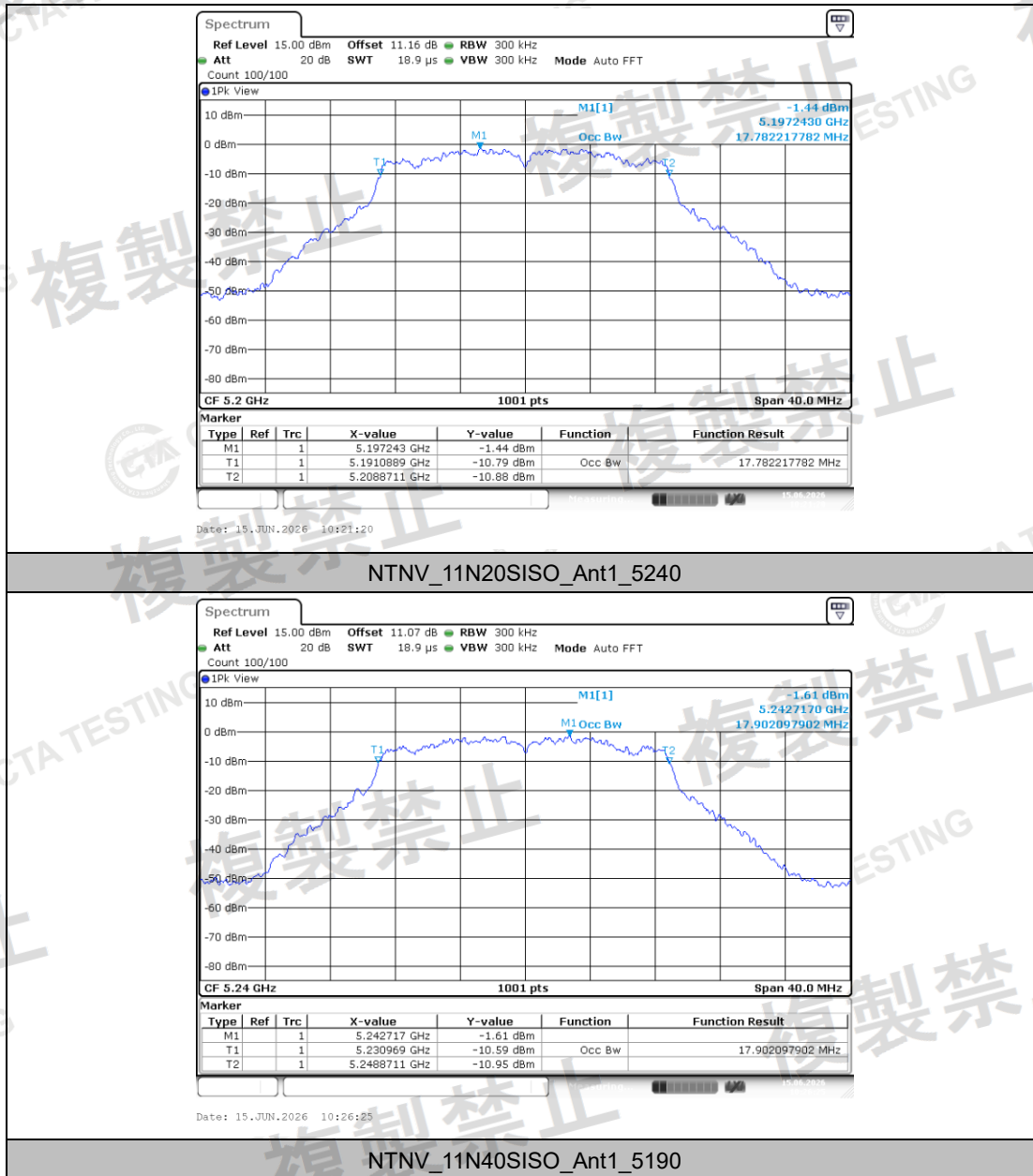
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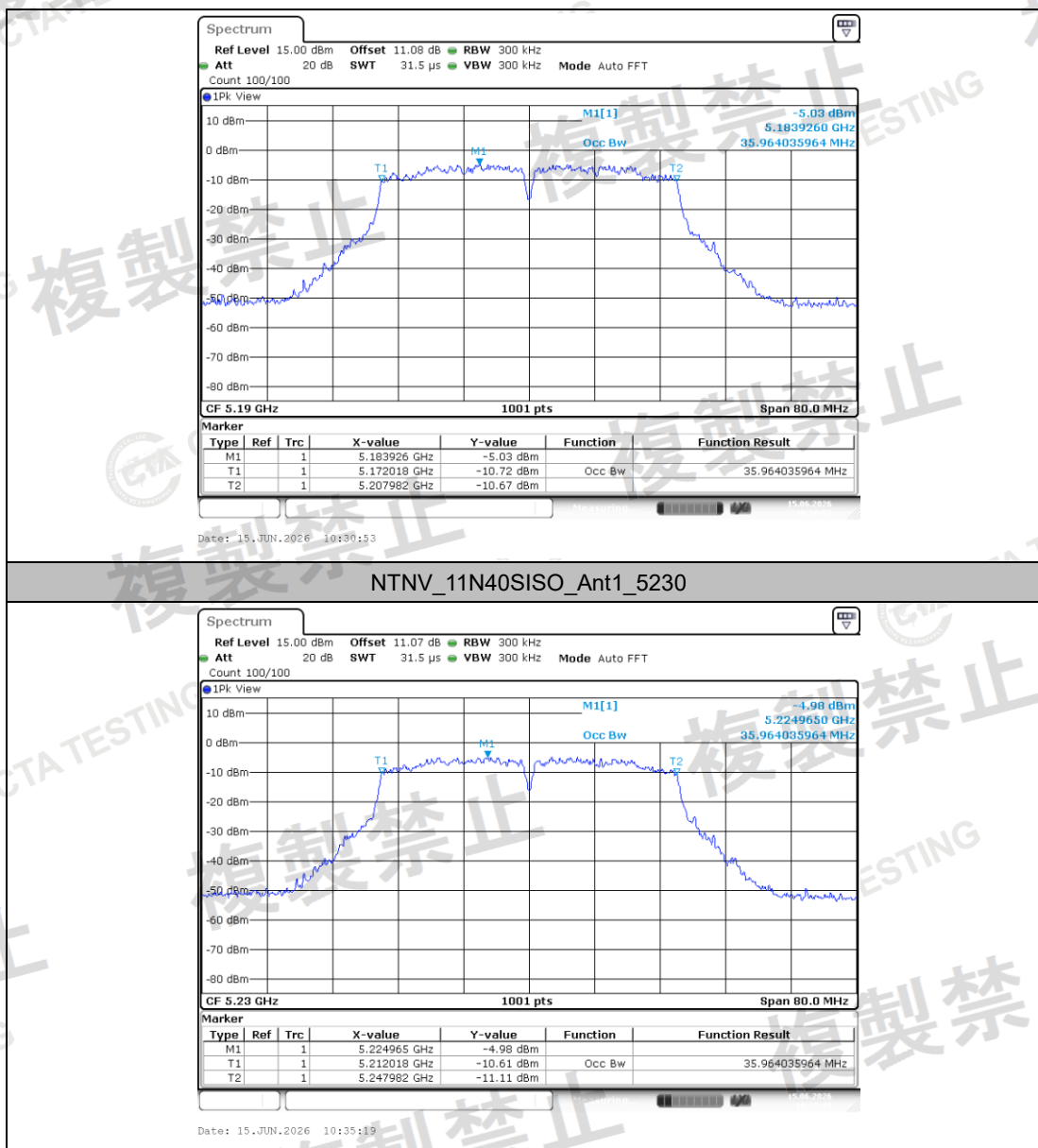
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Appendix C: Spurious Emission of TX

Test Result

TestCondition	TestMode	Antenna	Freq(M Hz)	Freq.Range [MHz]	Freq. [MHz]	Result [dBm]	Result [μW]	Limit [μW]	Verdict
NTNV	11A	Ant1	5180	30~5142	5129.22	-52.65	0.00543	≤2.5	PASS
				5142~5150	5144.90	-54.04	0.00394	≤15	PASS
				5250~5251	5250.99	-56.30	0.00234	≤102.3	PASS
				5251~5260	5259.89	-56.40	0.00229	≤16.2	PASS
				5260~5266.7	5266.63	-56.78	0.00210	≤2.5	PASS
				5266.7~26000	15791.61	-49.61	0.01094	≤2.5	PASS
			5200	30~5142	5141.49	-53.78	0.00419	≤2.5	PASS
				5142~5150	5147.43	-54.73	0.00337	≤15	PASS
				5250~5251	5251.00	-55.72	0.00268	≤100.0	PASS
				5251~5260	5259.42	-55.91	0.00256	≤17.8	PASS
				5260~5266.7	5266.67	-55.97	0.00253	≤2.5	PASS
				5266.7~26000	20276.92	-50.15	0.00966	≤2.5	PASS
			5240	30~5142	5122.57	-53.81	0.00416	≤2.5	PASS
				5142~5150	5142.30	-55.47	0.00284	≤15	PASS
				5250~5251	5251.00	-25.83	2.61216	≤100.0	PASS
				5251~5260	5251.02	-26.01	2.50611	≤99.6	PASS
				5260~5266.7	5266.70	-54.79	0.00332	≤2.5	PASS
				5266.7~26000	15833.08	-50.21	0.00953	≤2.5	PASS
	11N20SI SO	Ant1	5180	30~5142	5137.91	-52.39	0.00577	≤2.5	PASS
				5142~5150	5143.23	-53.96	0.00402	≤15	PASS
				5250~5251	5250.96	-55.87	0.00259	≤109.6	PASS
				5251~5260	5259.87	-56.28	0.00236	≤16.3	PASS
				5260~5266.7	5266.68	-56.69	0.00214	≤2.5	PASS
				5266.7~26000	15788.85	-50.42	0.00908	≤2.5	PASS
			5200	30~5142	5135.87	-52.82	0.00522	≤2.5	PASS
				5142~5150	5147.90	-54.62	0.00345	≤15	PASS
				5250~5251	5251.00	-55.75	0.00266	≤100.0	PASS
				5251~5260	5260.00	-56.24	0.00238	≤15.8	PASS
				5260~5266.7	5266.67	-56.21	0.00239	≤2.5	PASS
				5266.7~26000	15795.07	-49.79	0.01050	≤2.5	PASS



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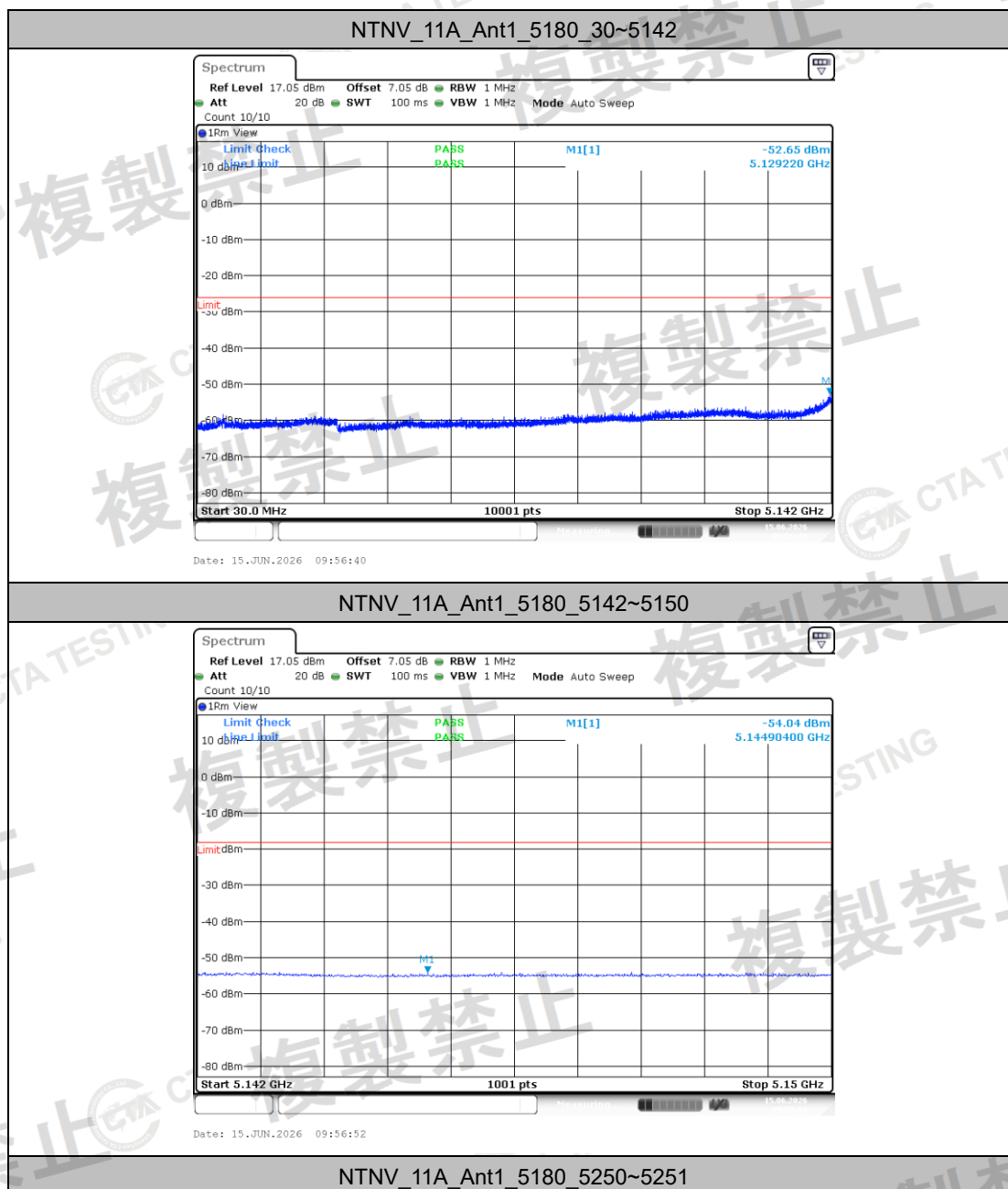
			5240	30~5142	5142.00	-53.63	0.00434	≤2.5	PASS
				5142~5150	5144.70	-55.63	0.00274	≤15	PASS
				5250~5251	5250.96	-24.68	3.40408	≤109.6	PASS
				5251~5260	5251.07	-25.34	2.92415	≤98.6	PASS
				5260~5266.7	5266.69	-54.63	0.00344	≤2.5	PASS
				5266.7~2600 0	20296.96	-50.45	0.00902	≤2.5	PASS
	11N40SI SO	Ant1	5190	30~5141.6	5140.07	-51.94	0.00640	≤2.5	PASS
				5141.6~5150	5149.62	-53.03	0.00498	≤15	PASS
				5250~5251	5250.96	-55.26	0.00298	≤54.8	PASS
				5251~5270	5269.56	-55.94	0.00255	≤8.3	PASS
				5270~5278.4	5278.32	-56.67	0.00215	≤2.5	PASS
				5278.4~2600 0	15780.80	-49.56	0.01107	≤2.5	PASS
		5230		30~5141.6	5141.60	-53.76	0.00421	≤2.5	PASS
				5141.6~5150	5149.43	-54.98	0.00318	≤15	PASS
				5250~5251	5250.99	-29.65	1.08393	≤51.2	PASS
				5251~5270	5251.00	-29.69	1.07399	≤50	PASS
				5270~5278.4	5278.20	-54.93	0.00321	≤2.6	PASS
				5278.4~2600 0	20326.43	-50.19	0.00957	≤2.5	PASS



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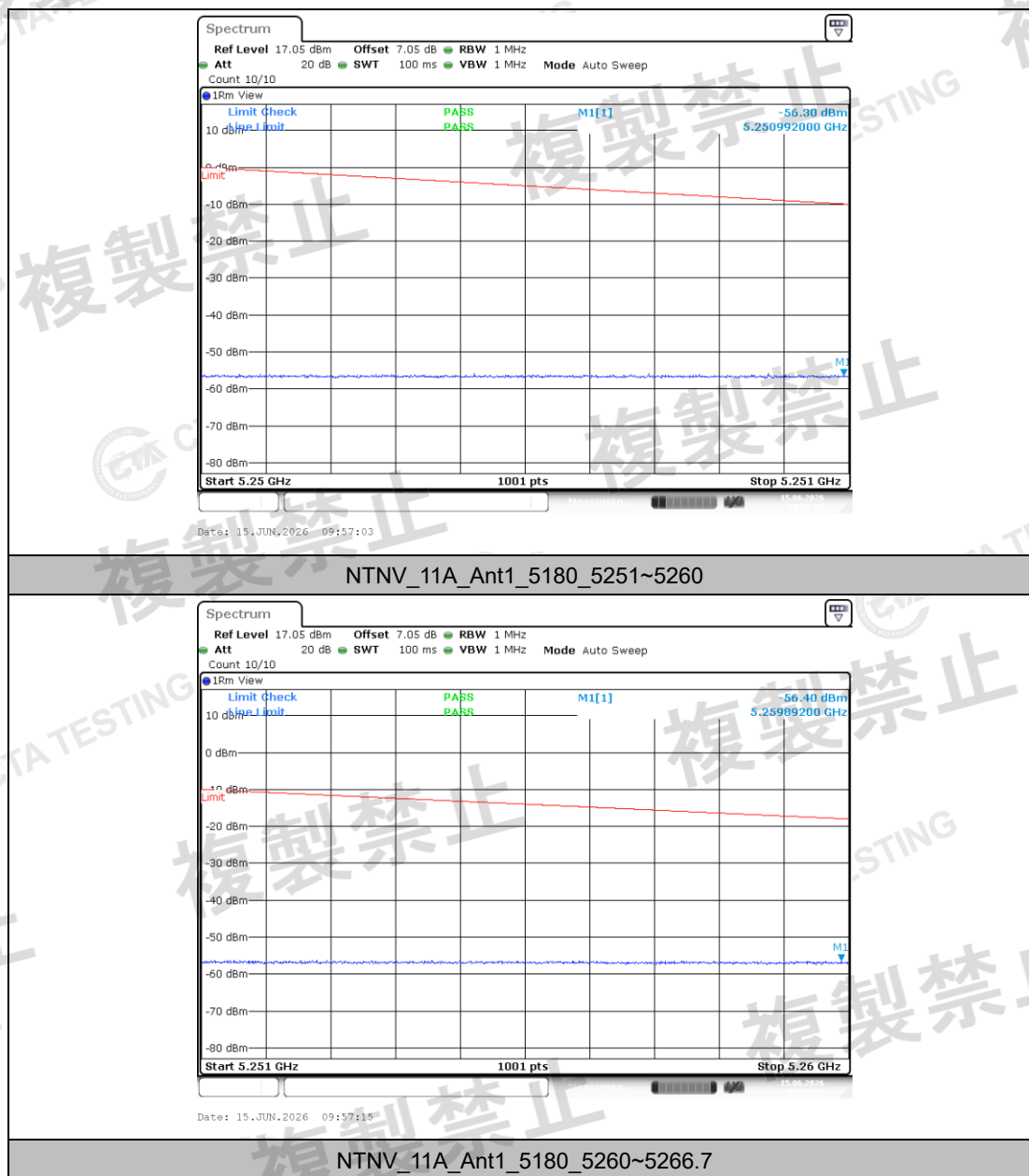
Test Graphs





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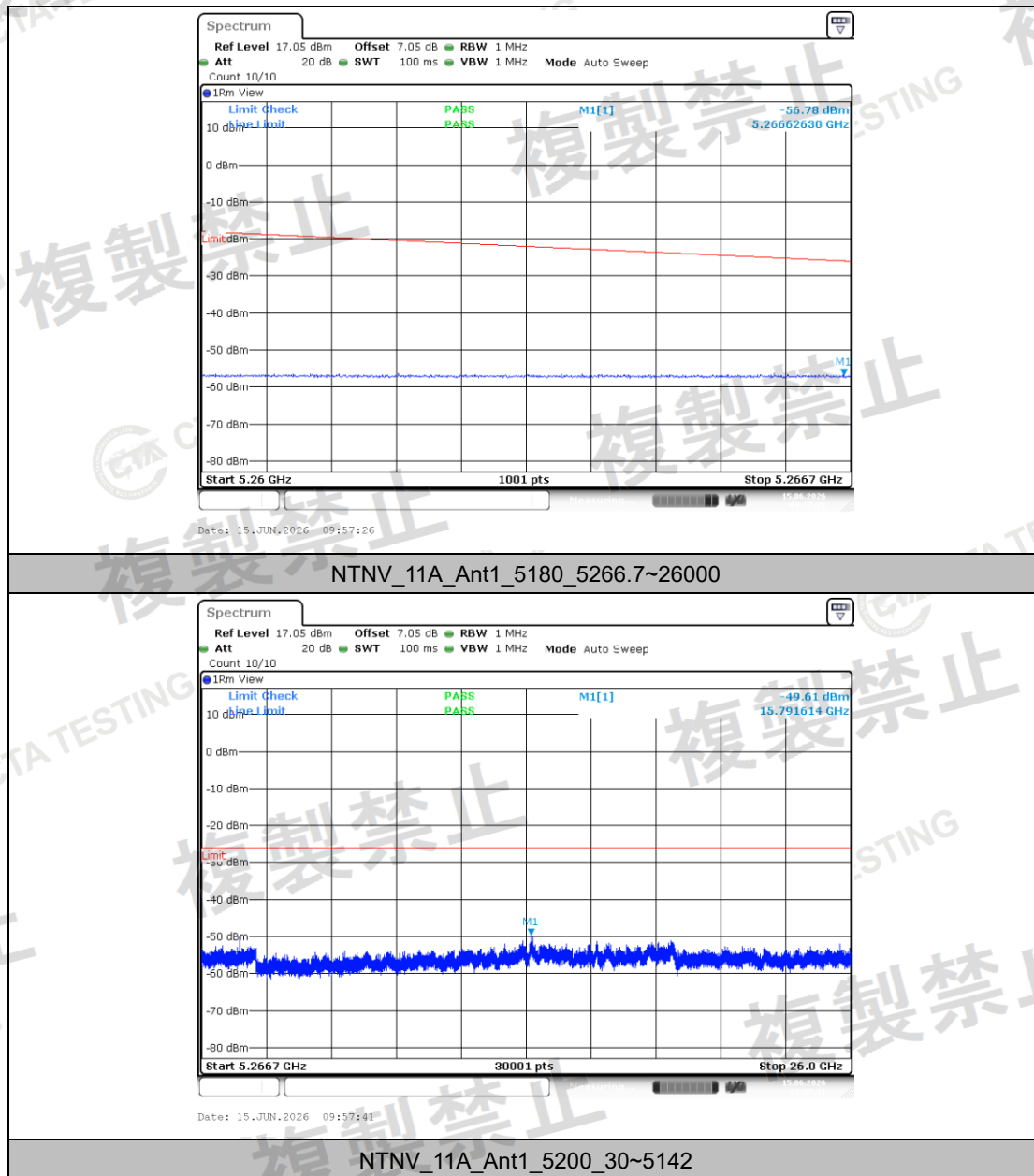
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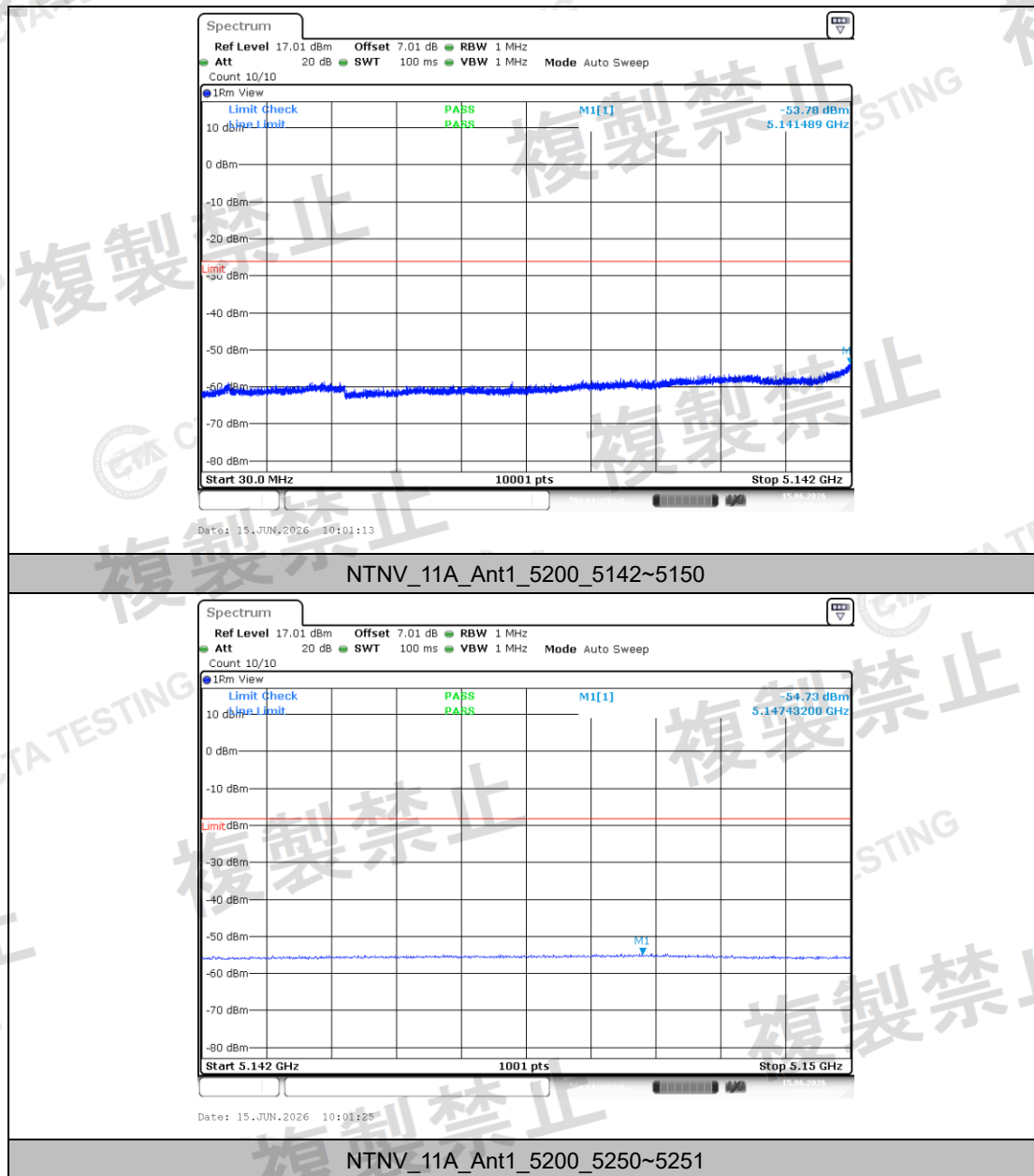
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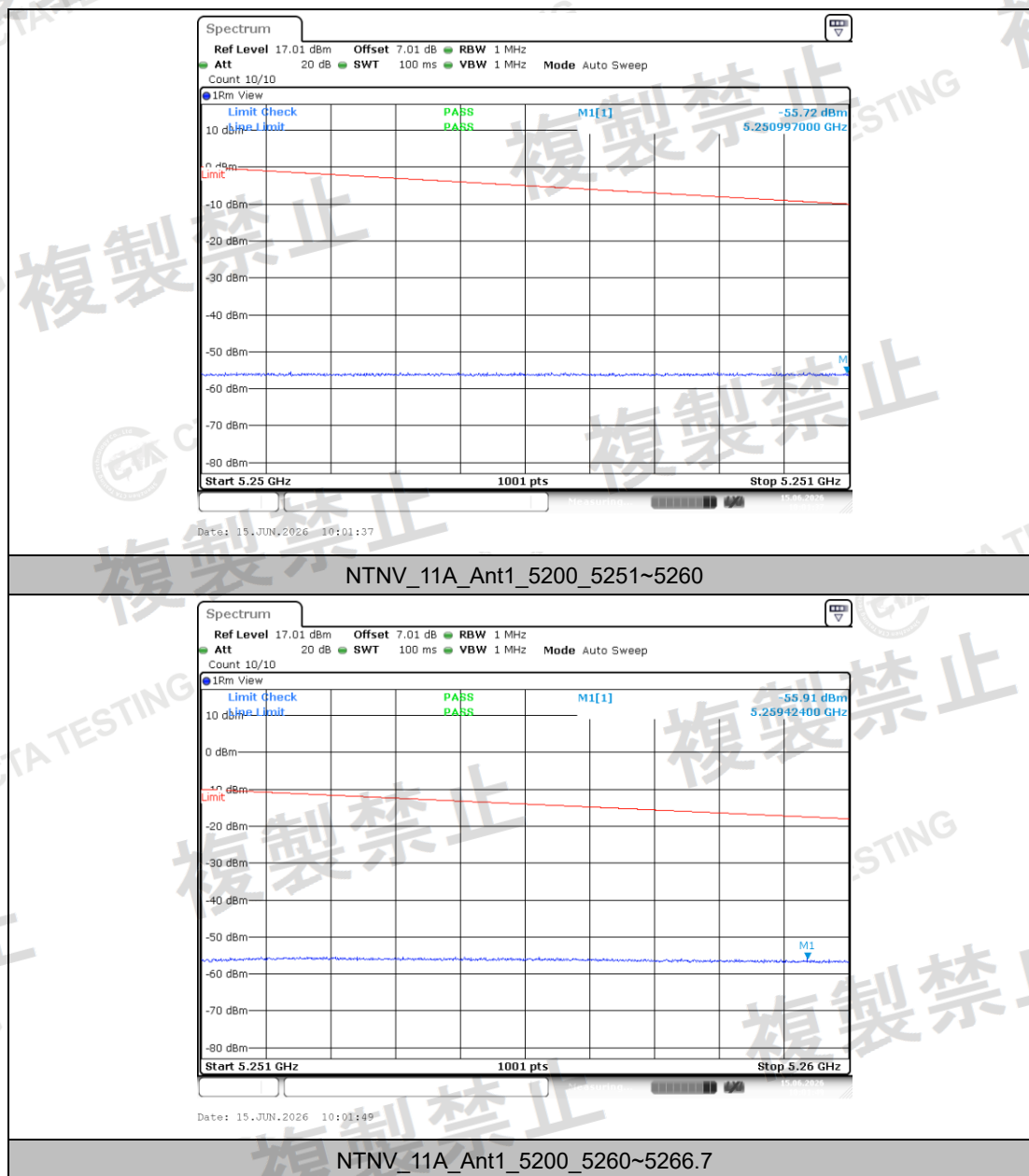
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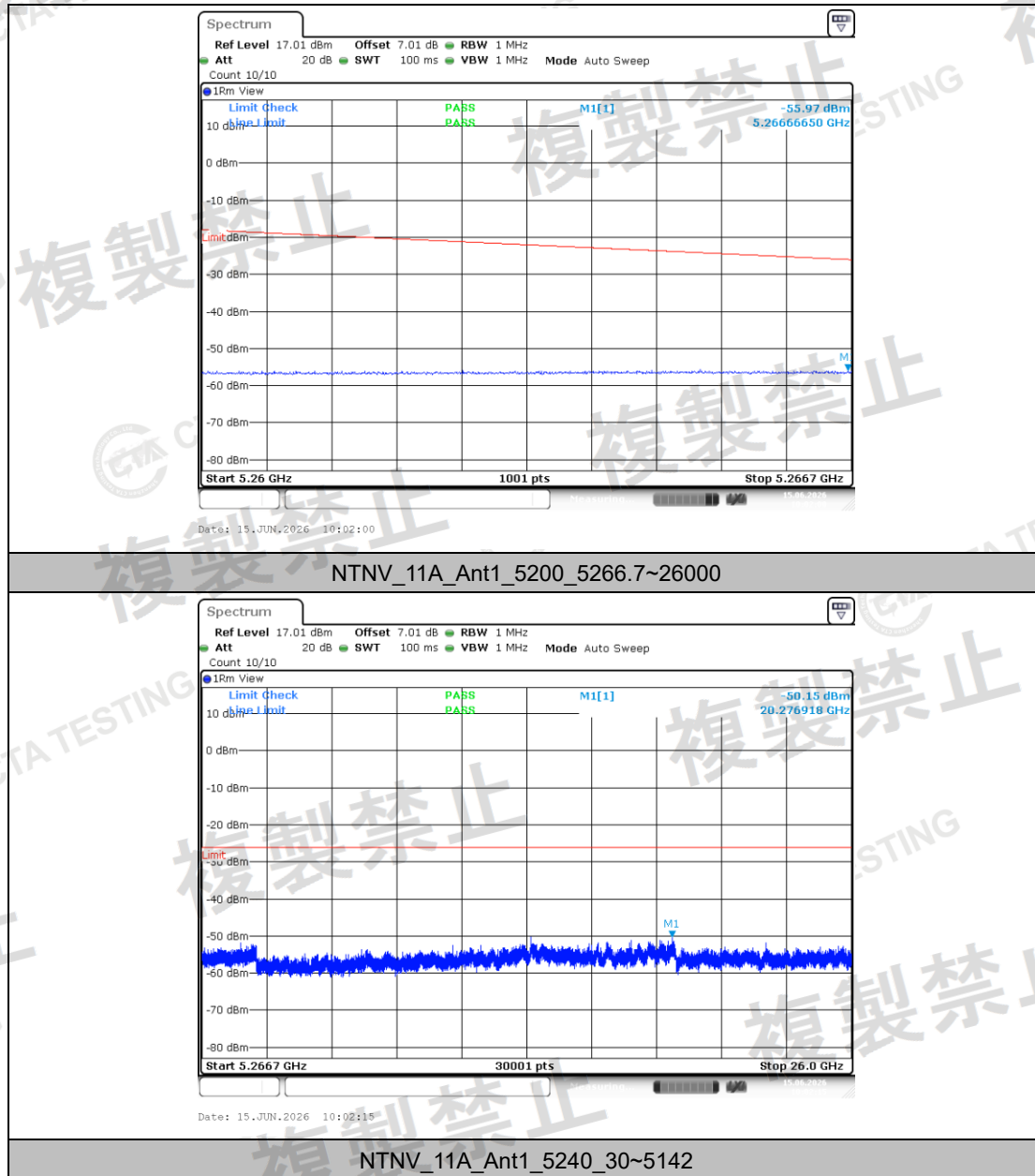
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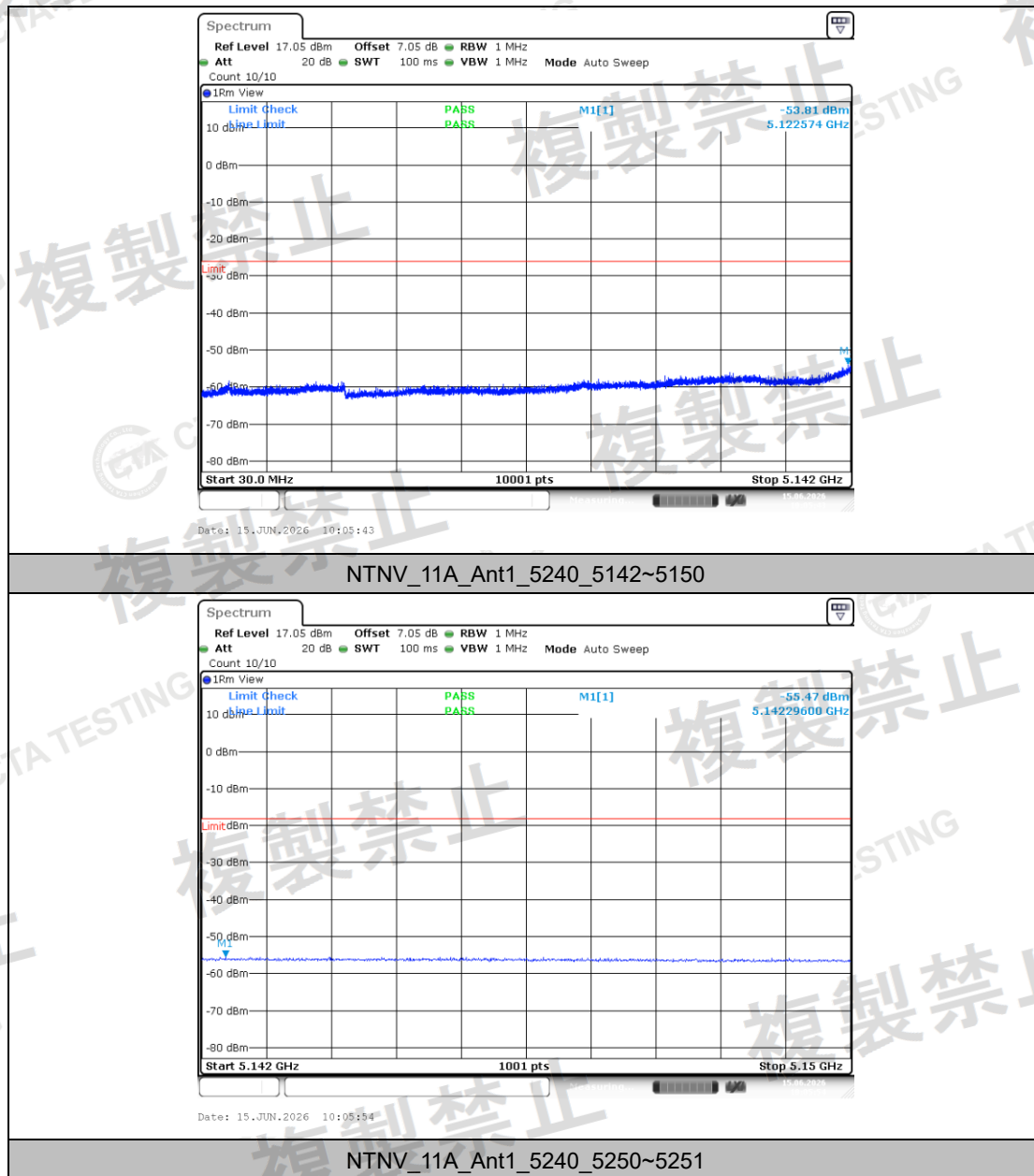
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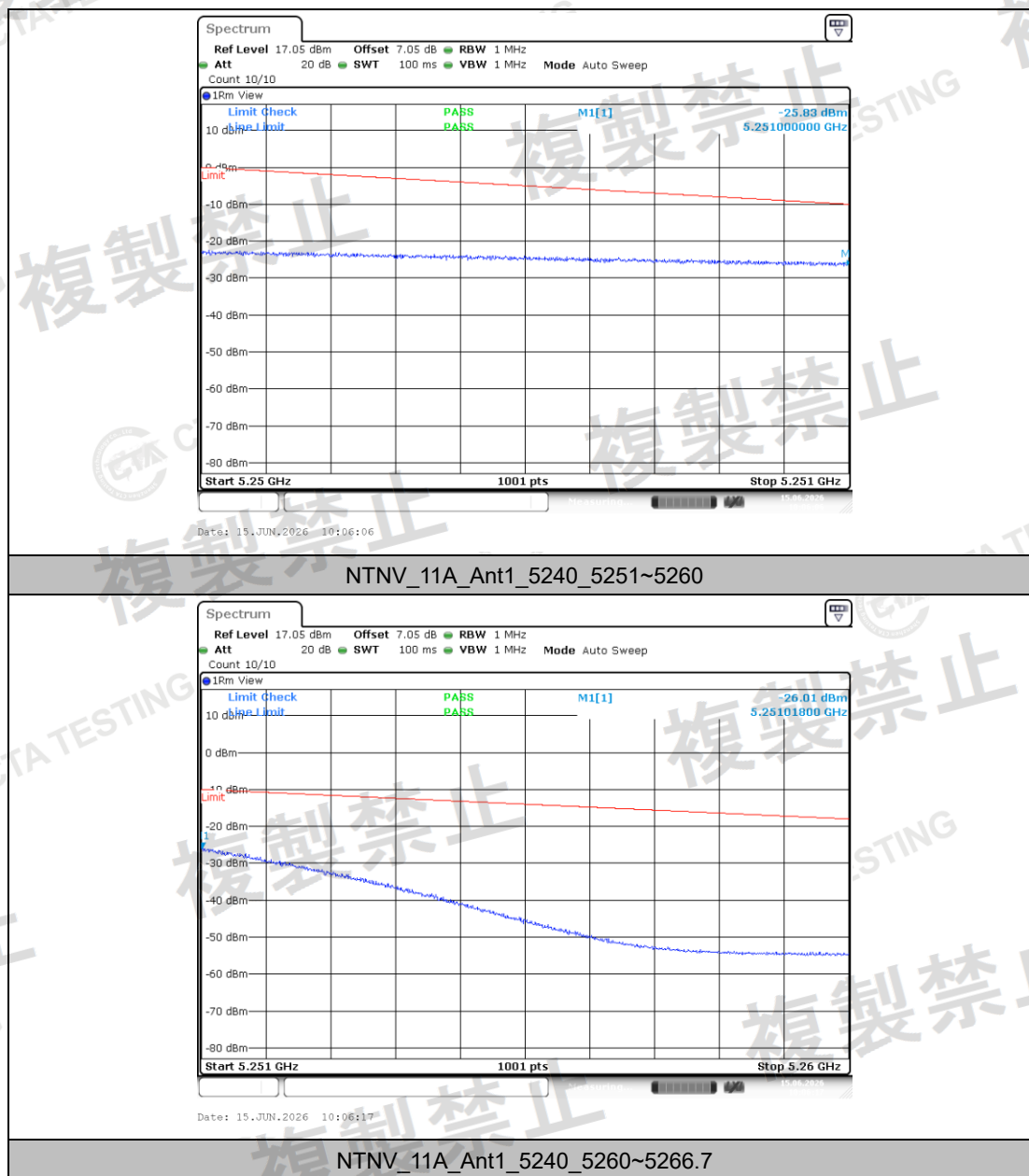
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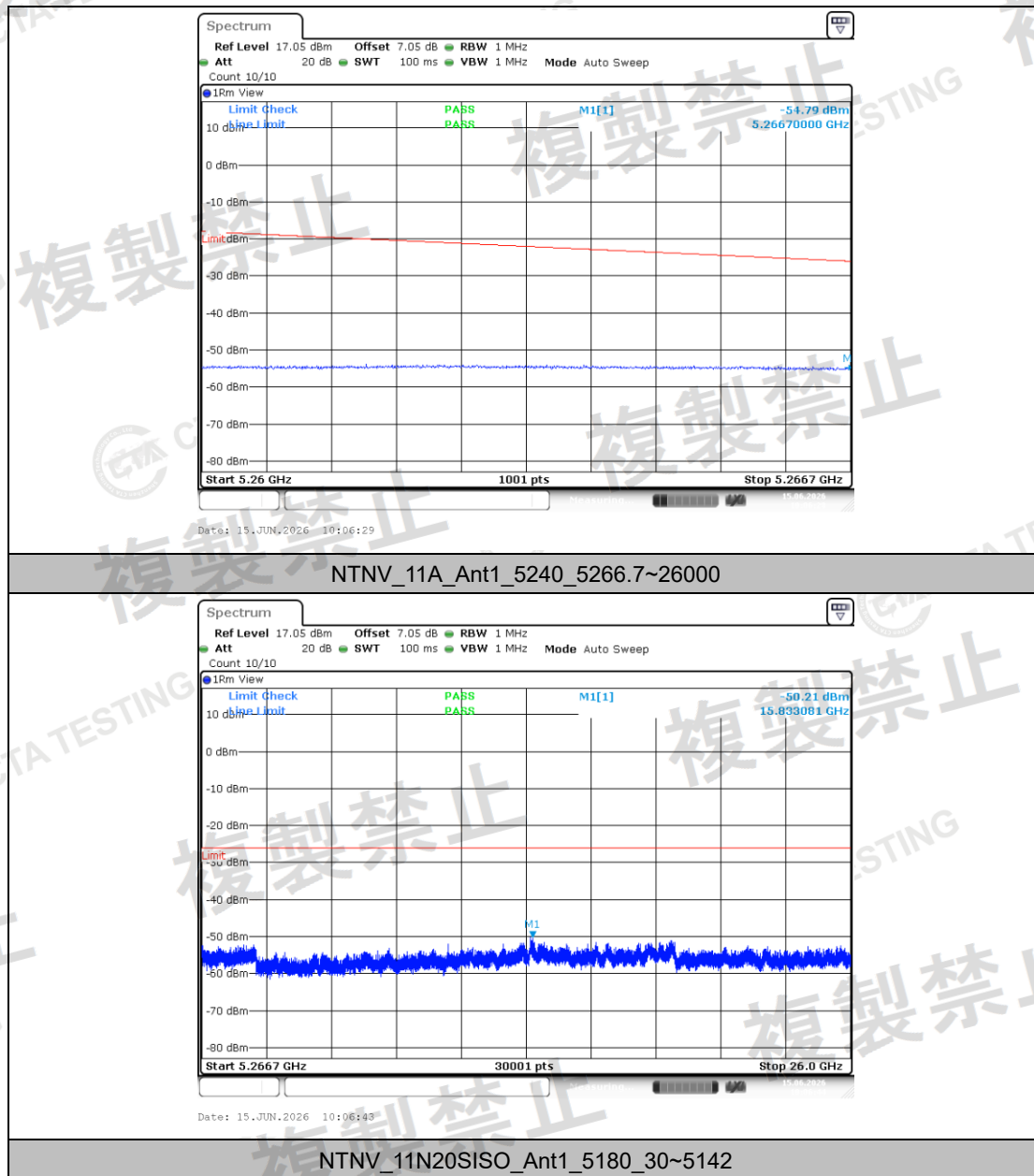
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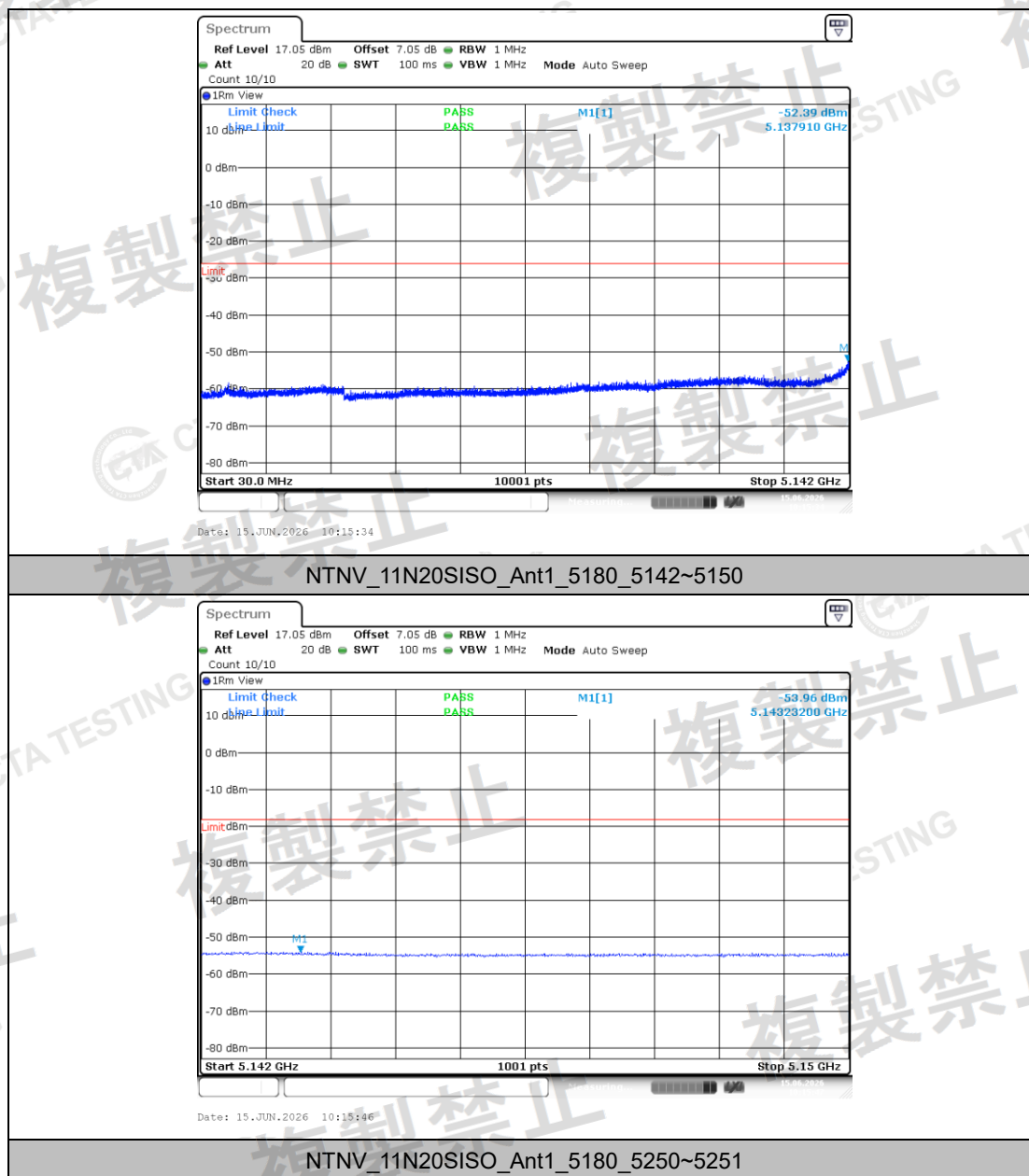
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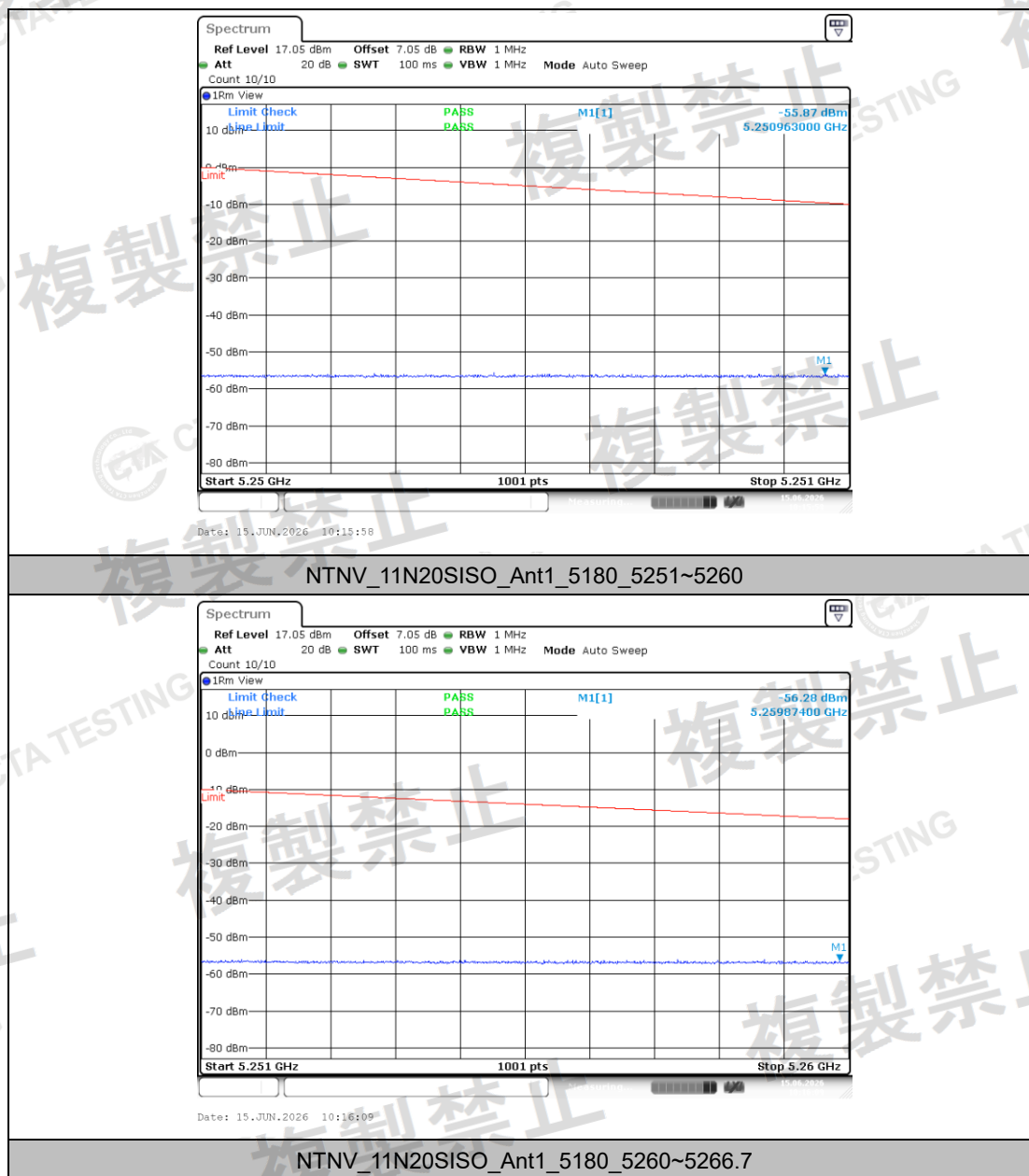
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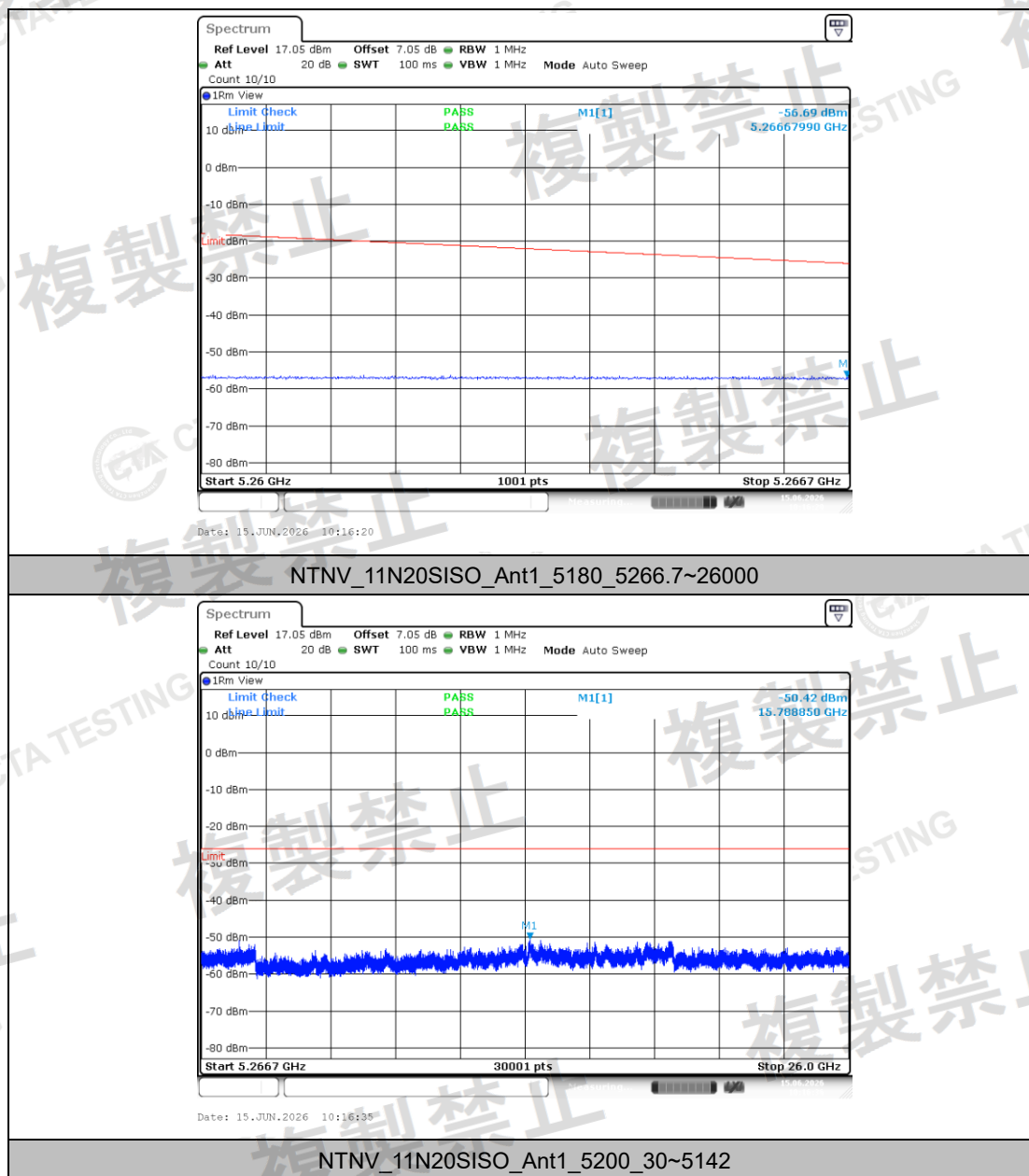
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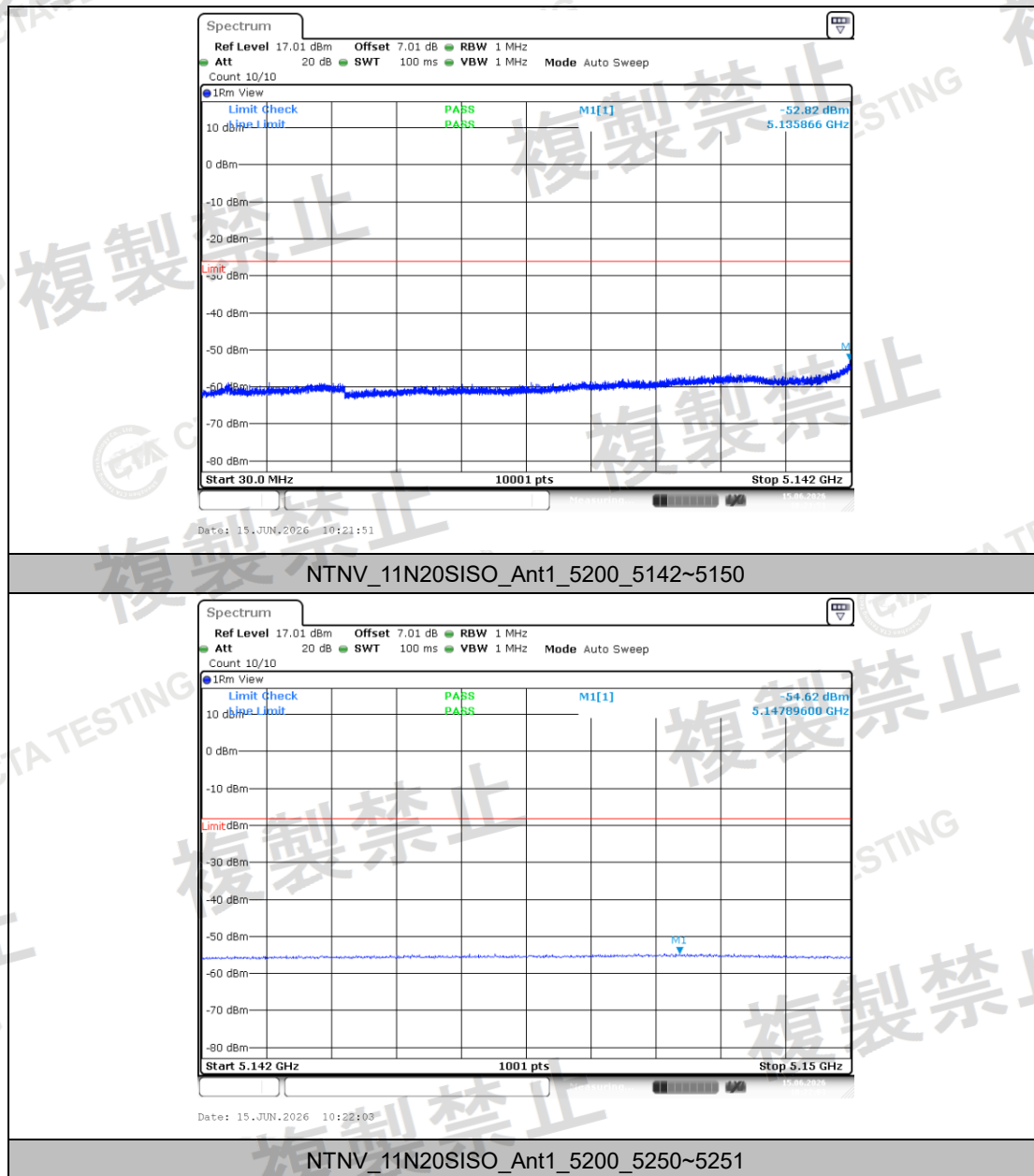
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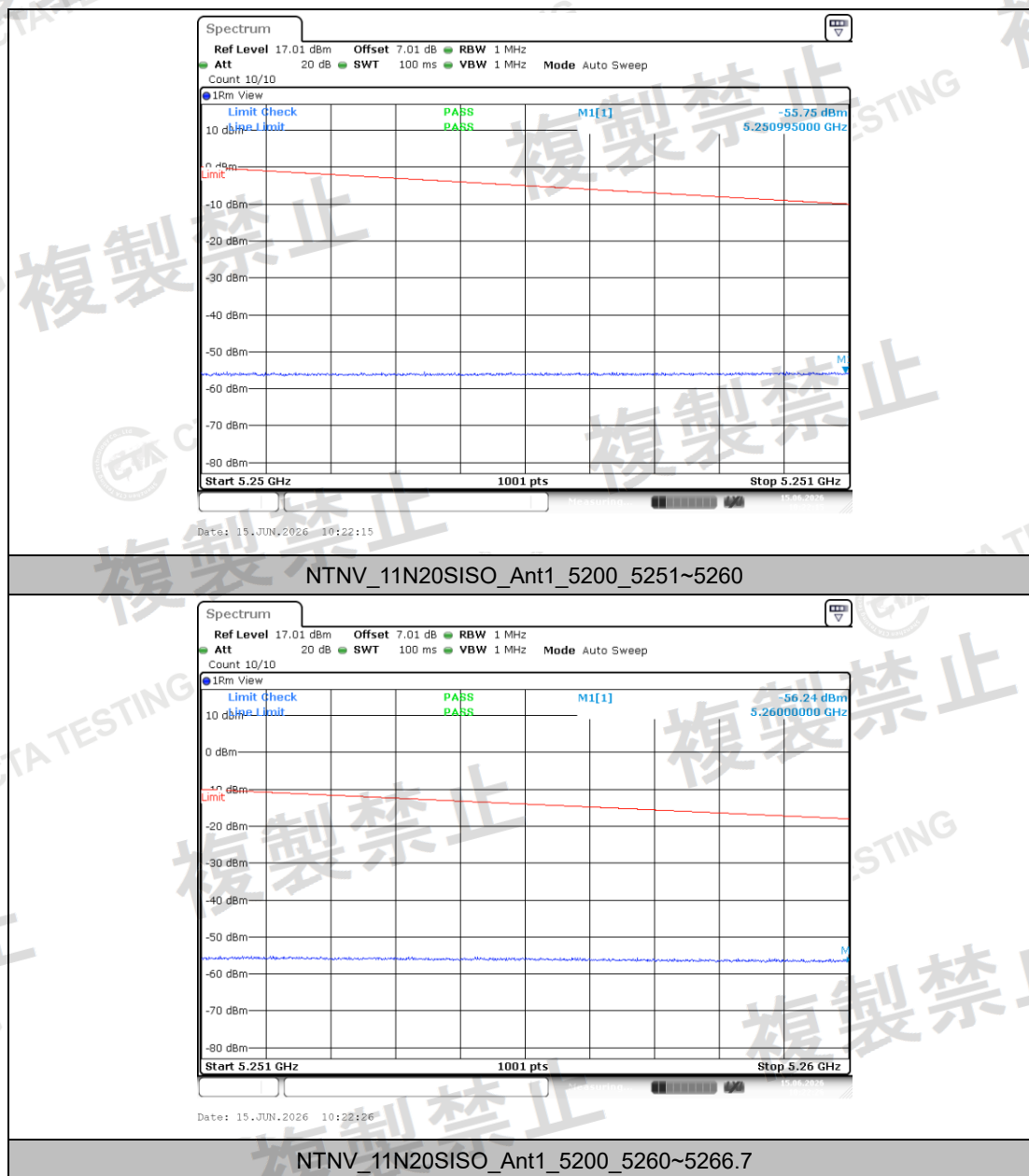
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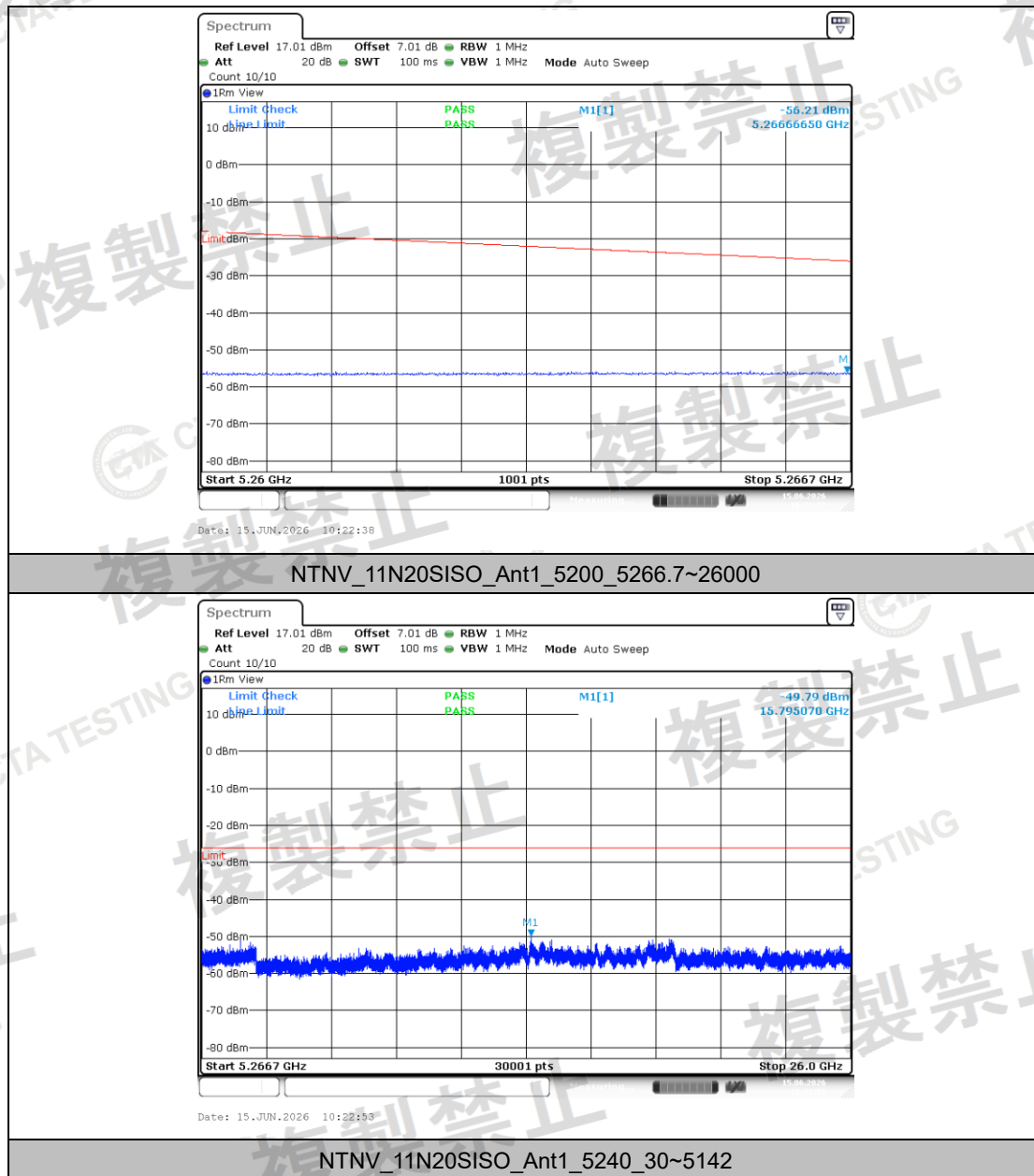
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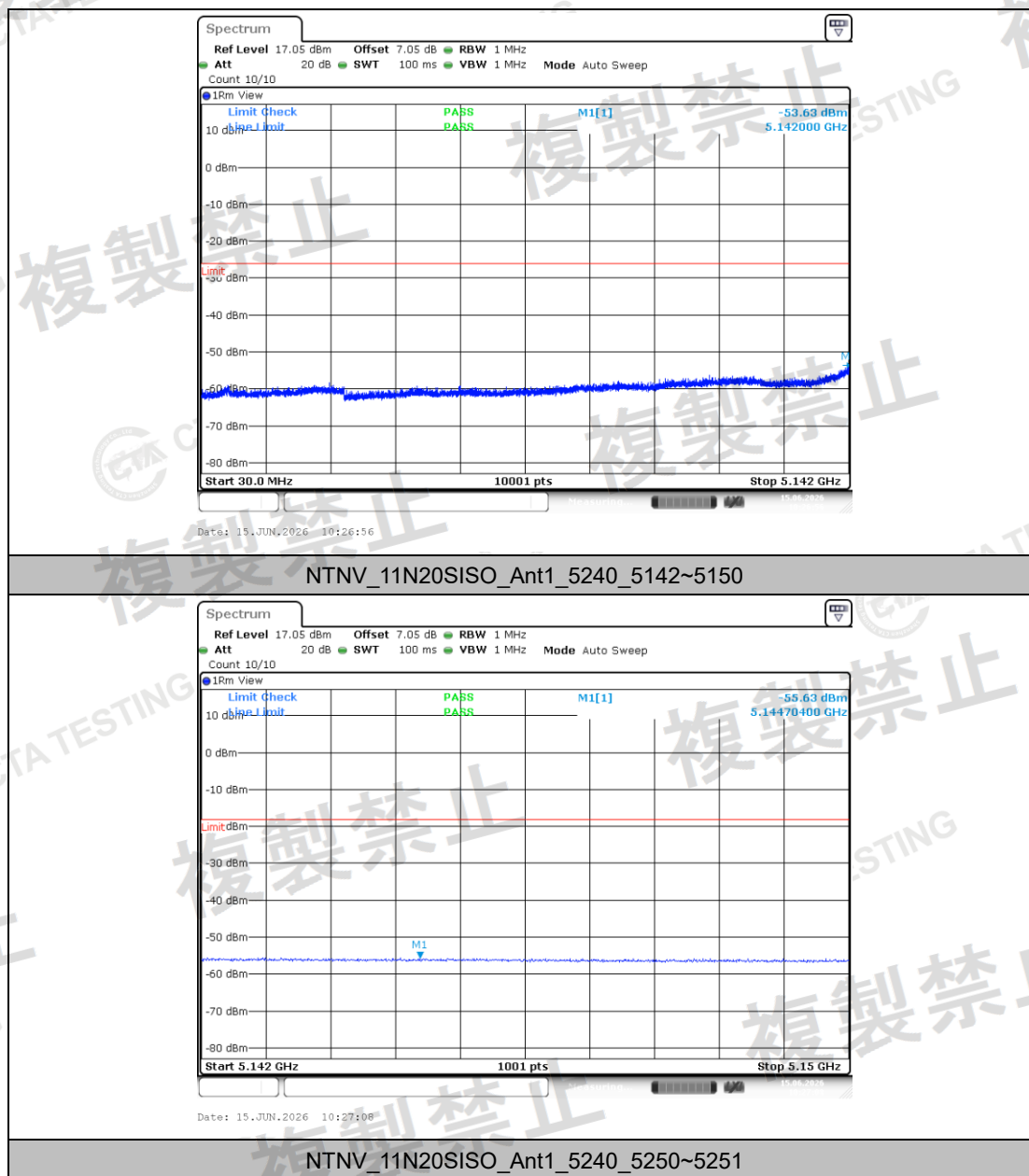
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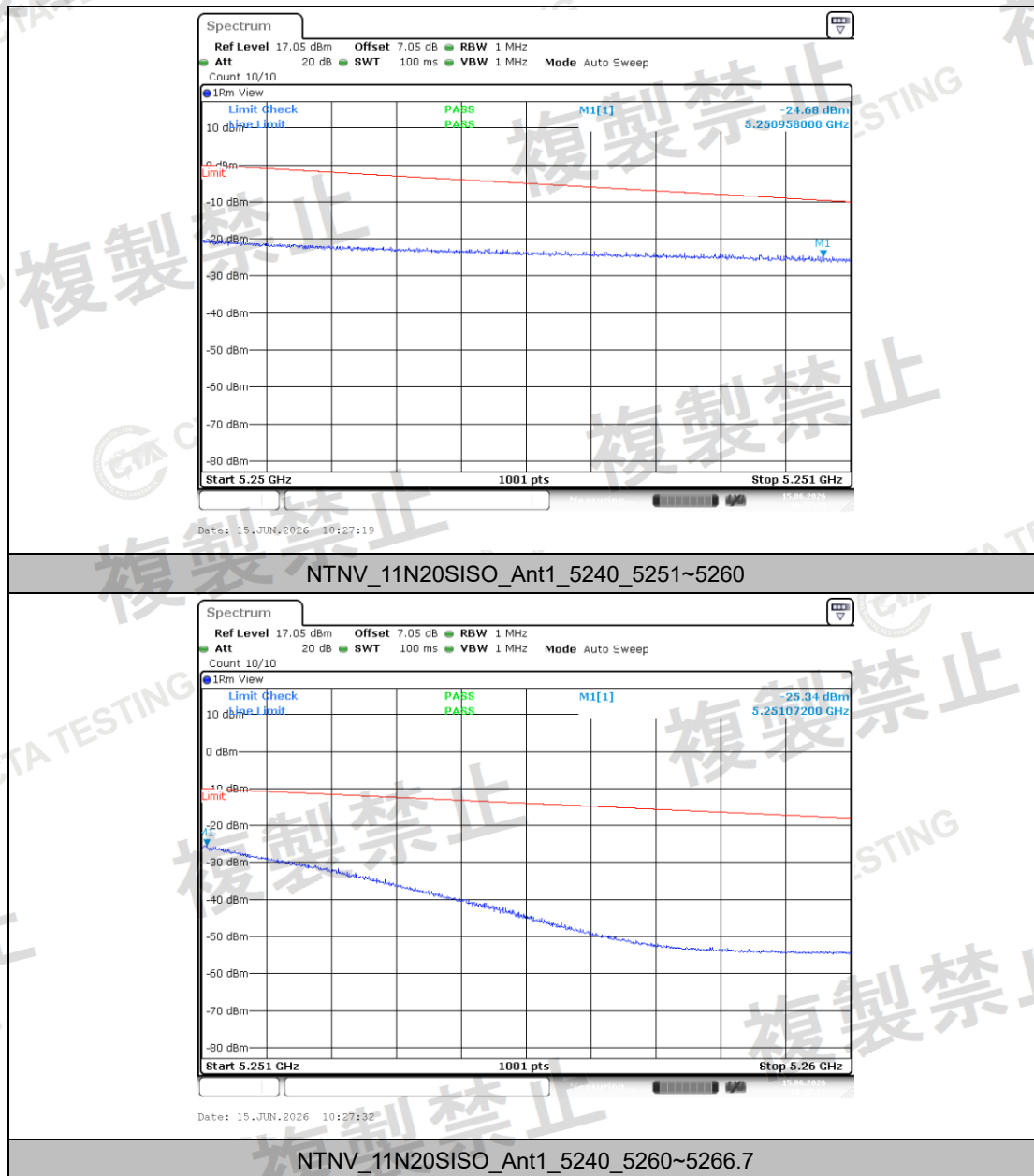
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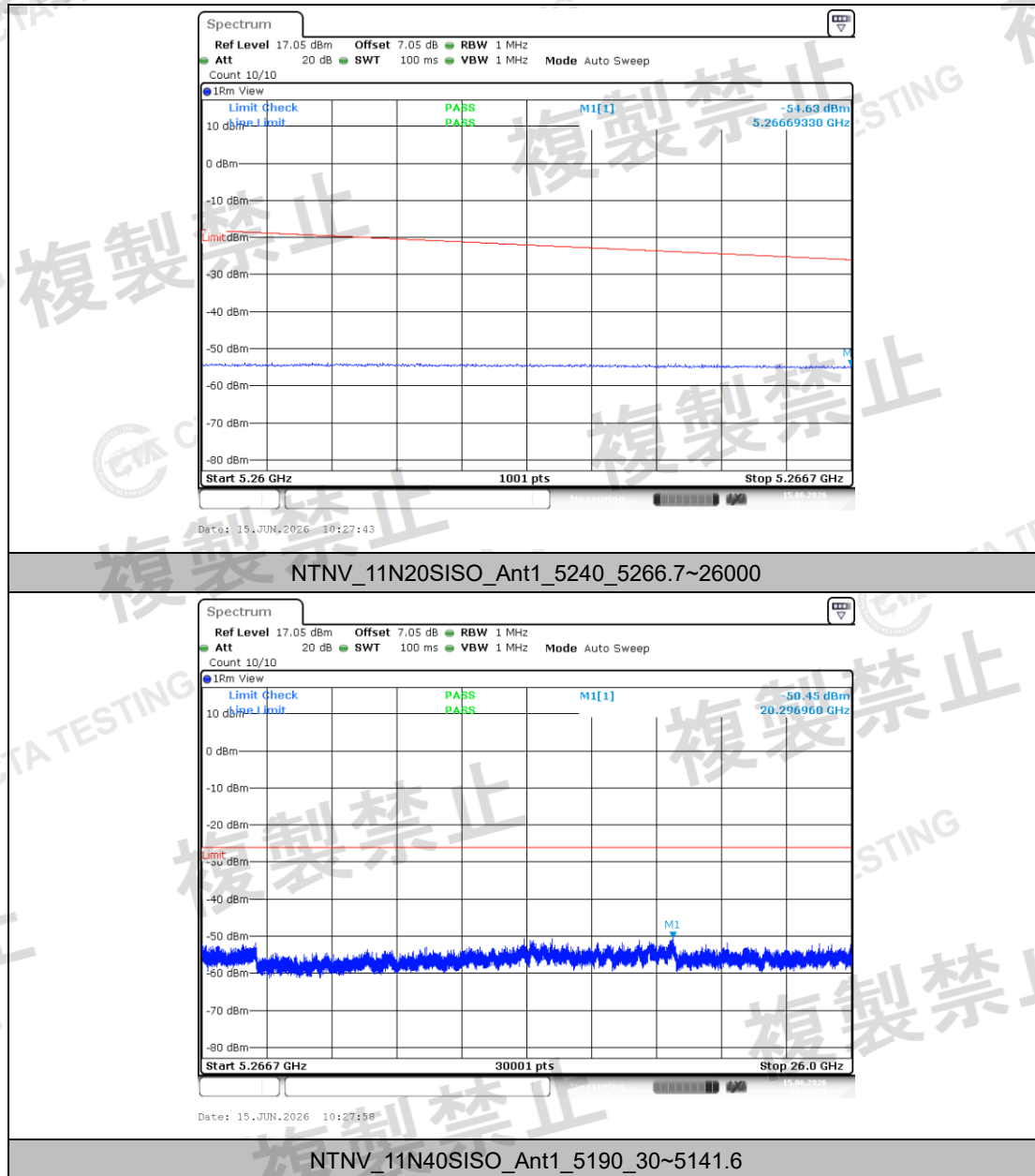
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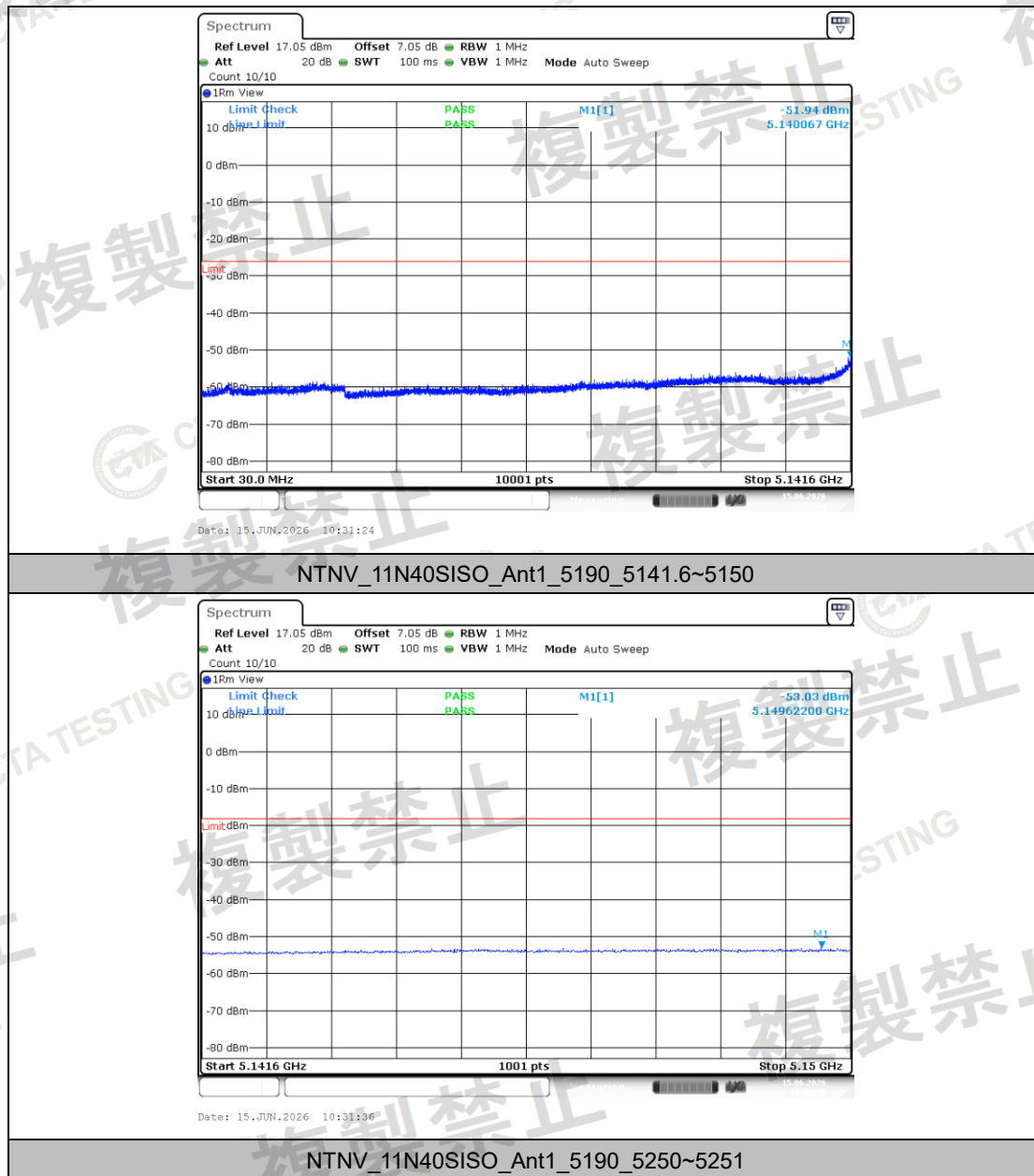
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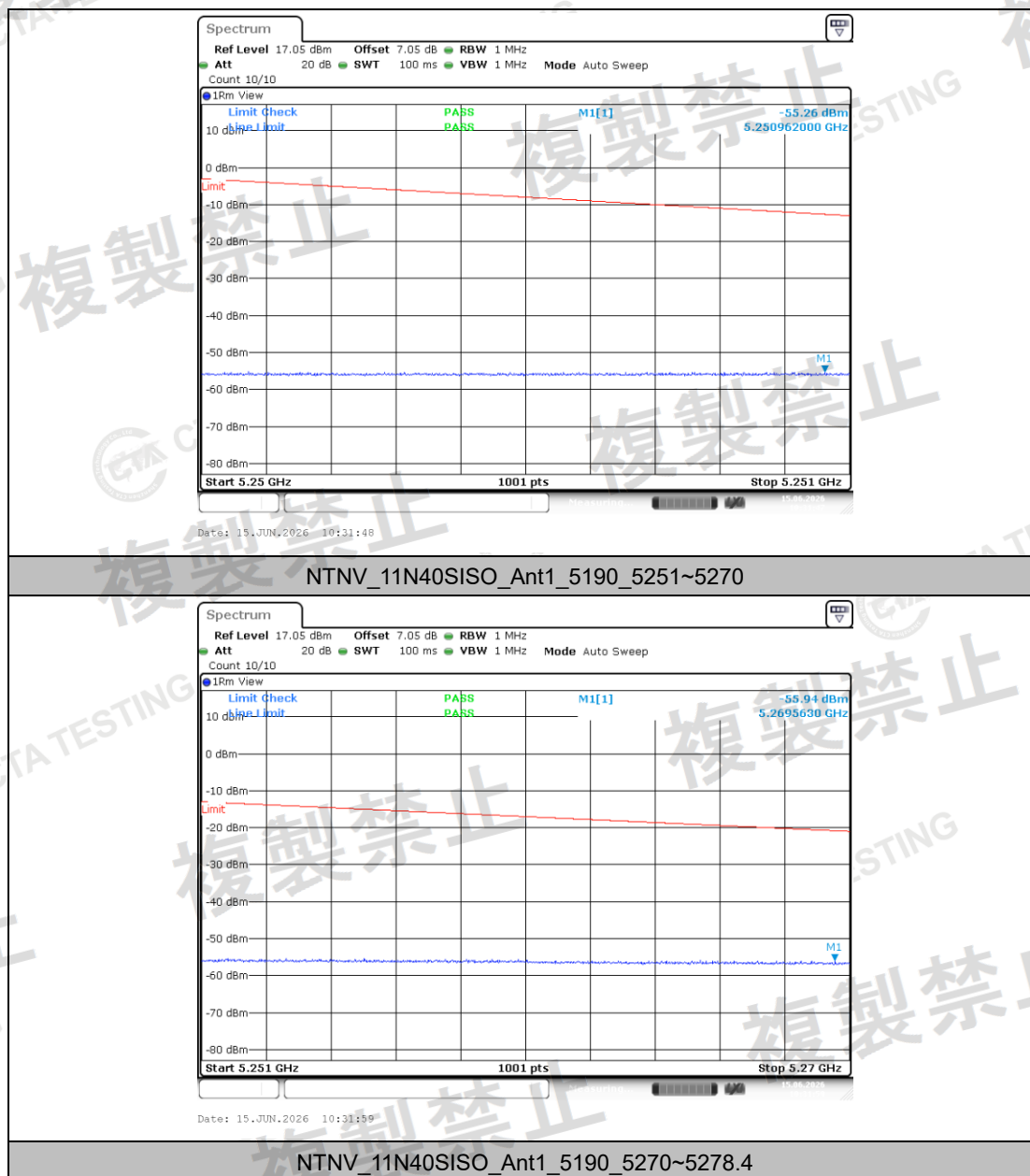
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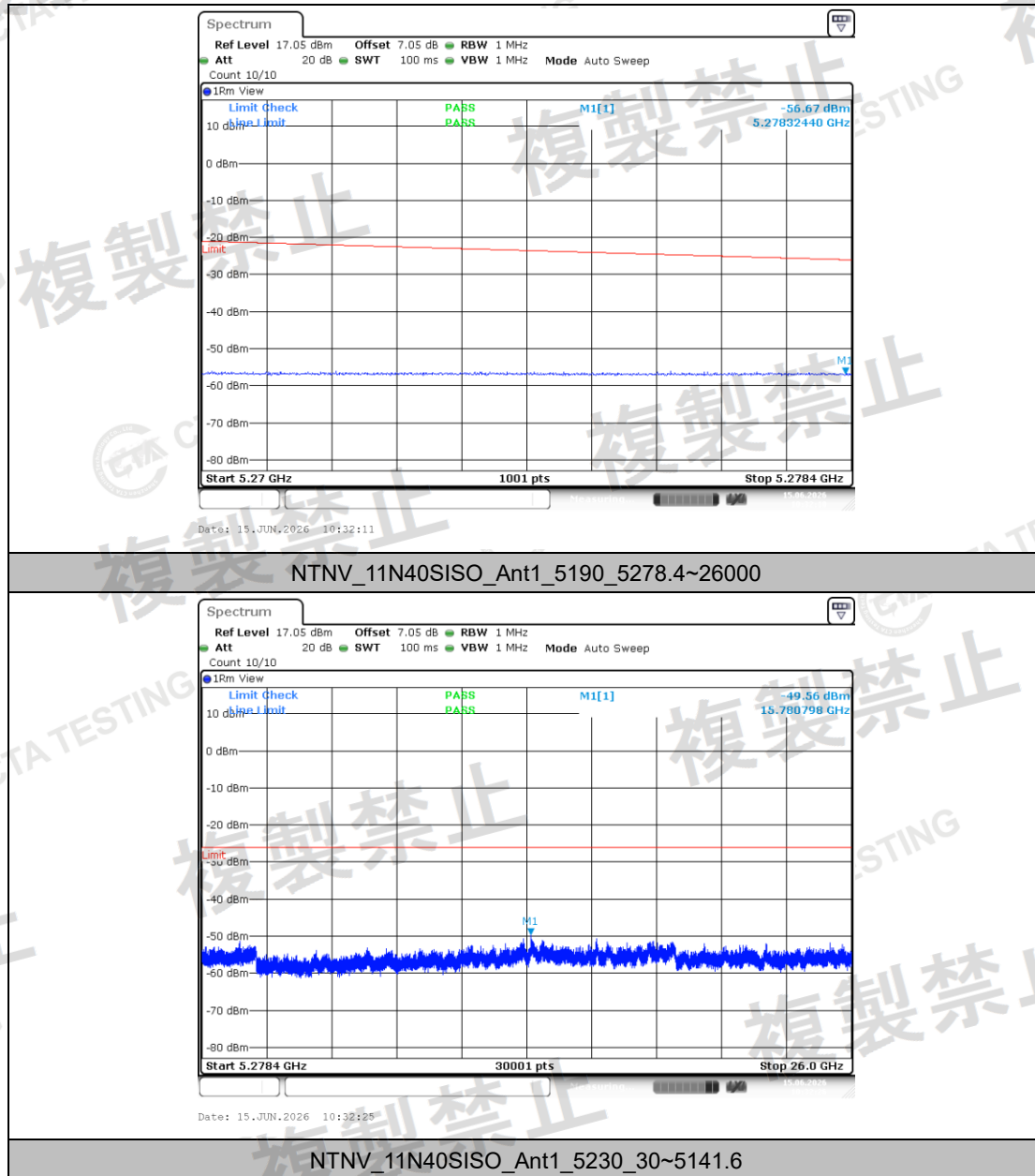
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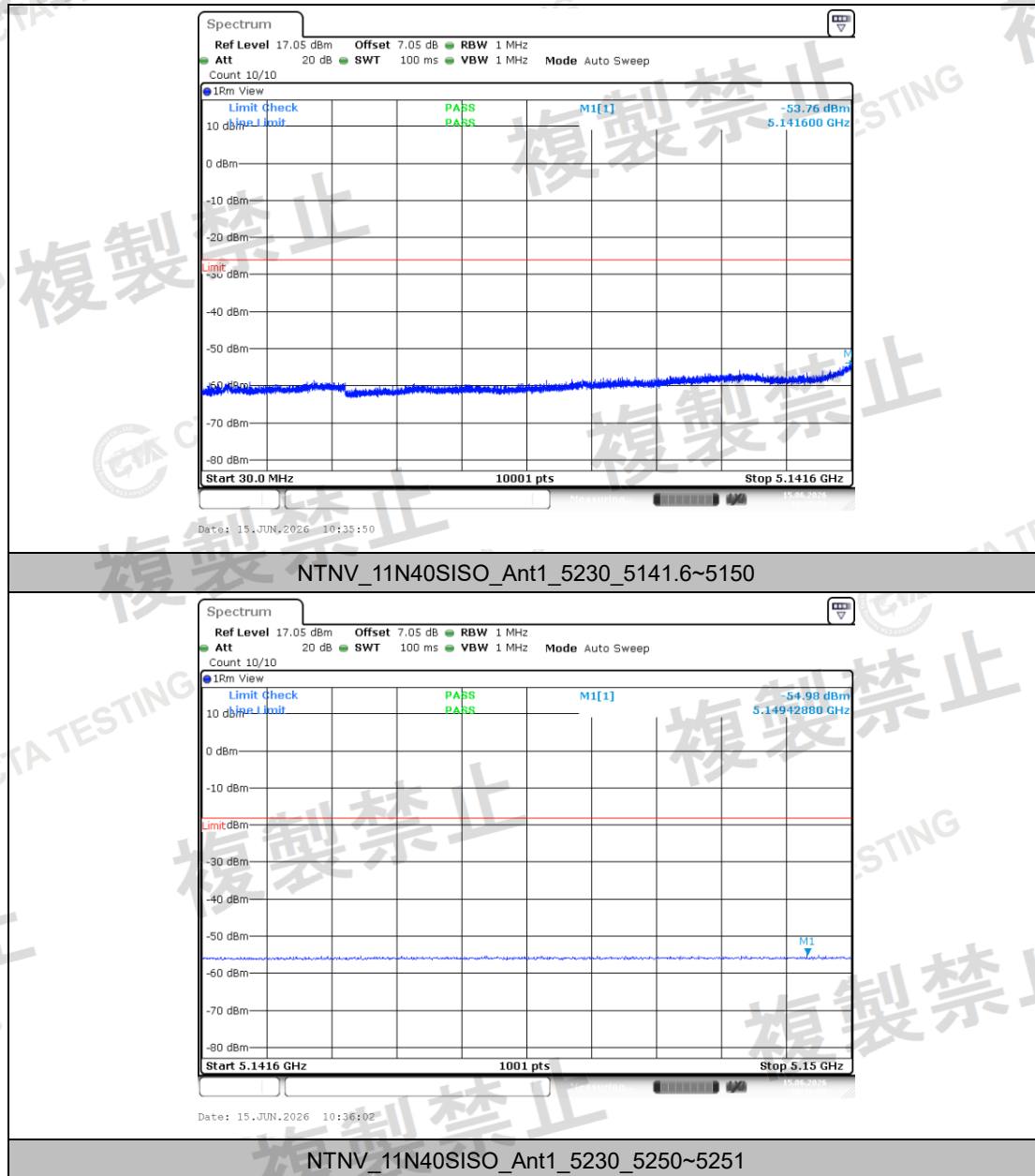
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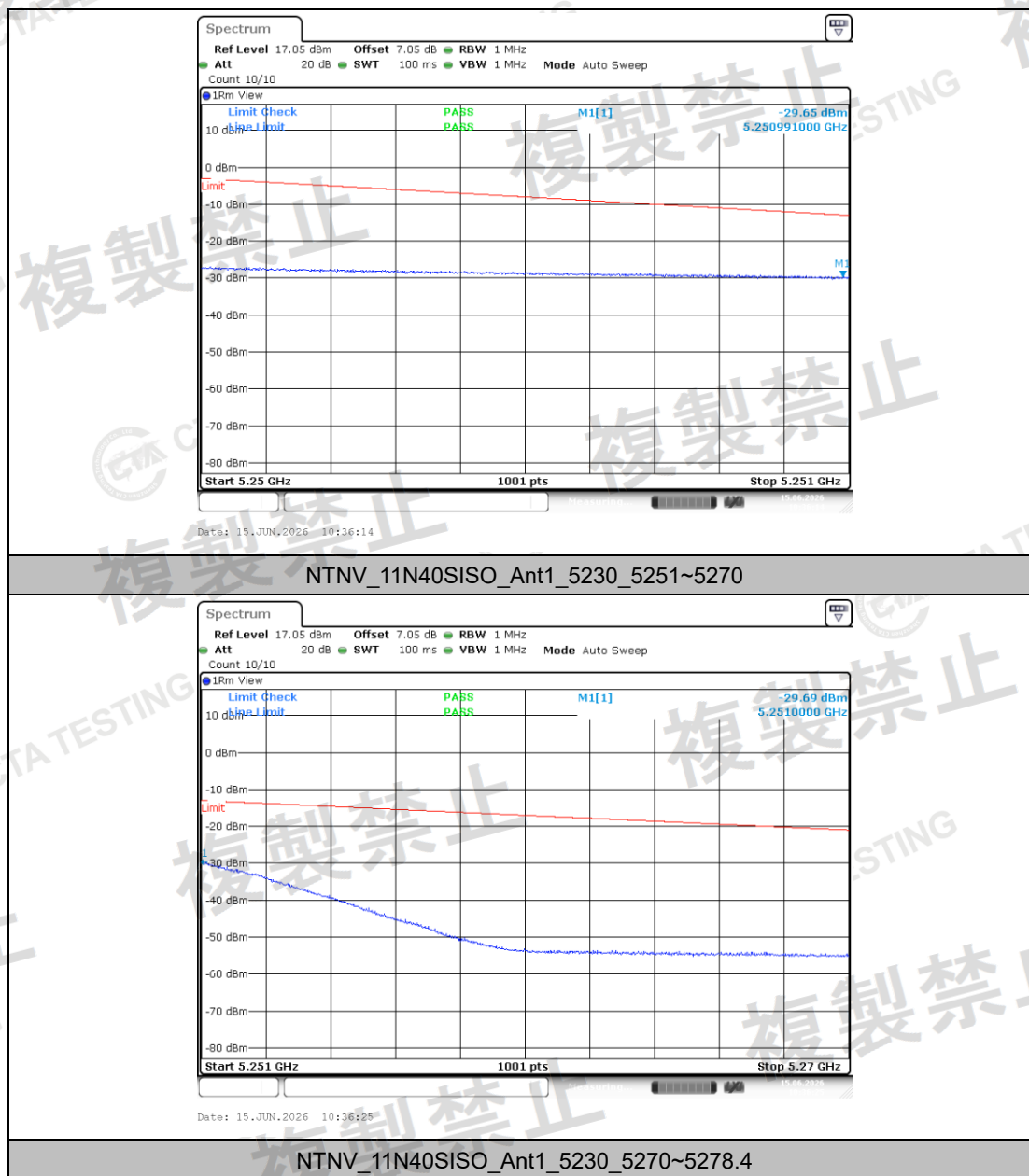
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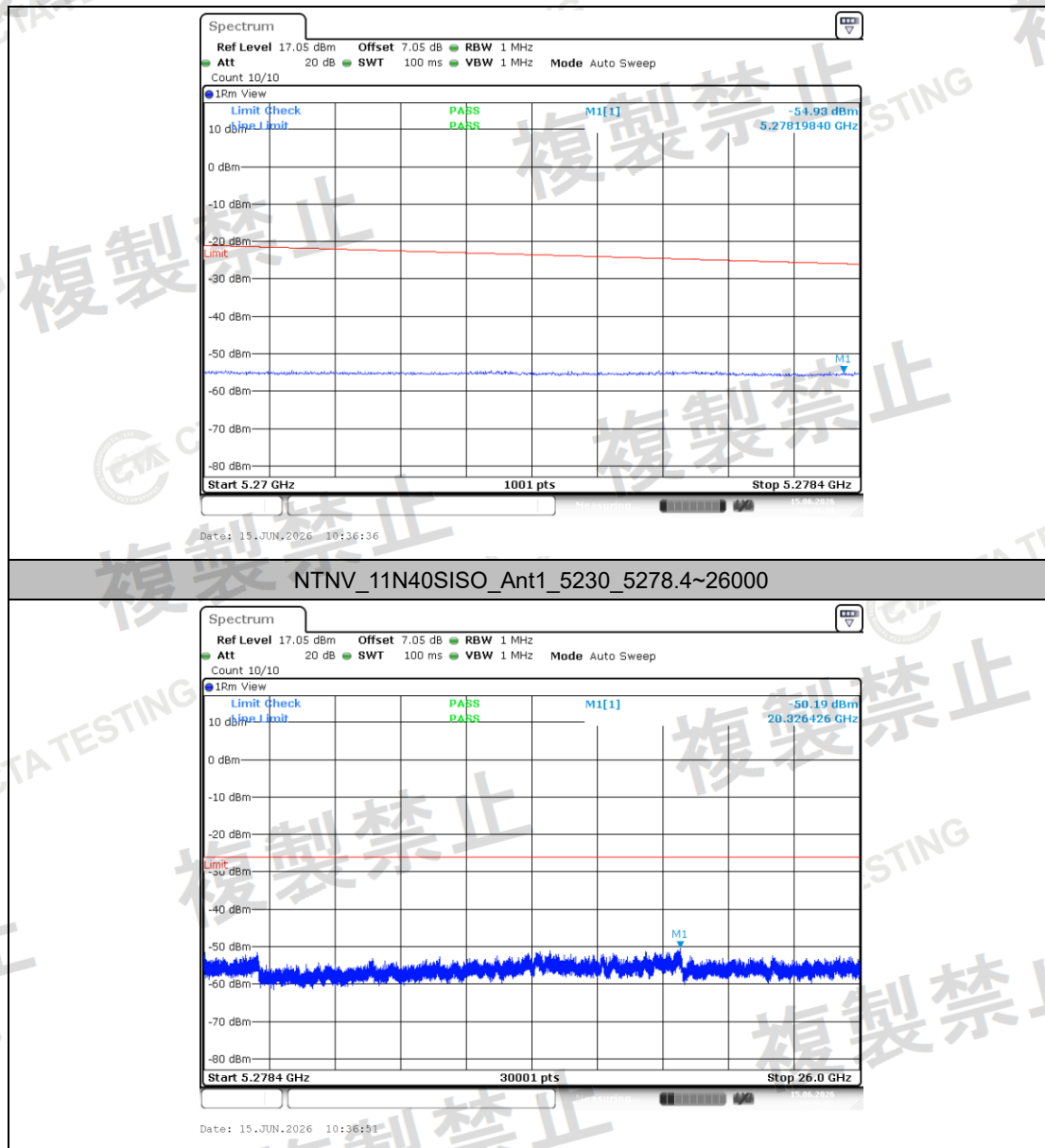
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Appendix D: Spurious Emission of RX

Test Result

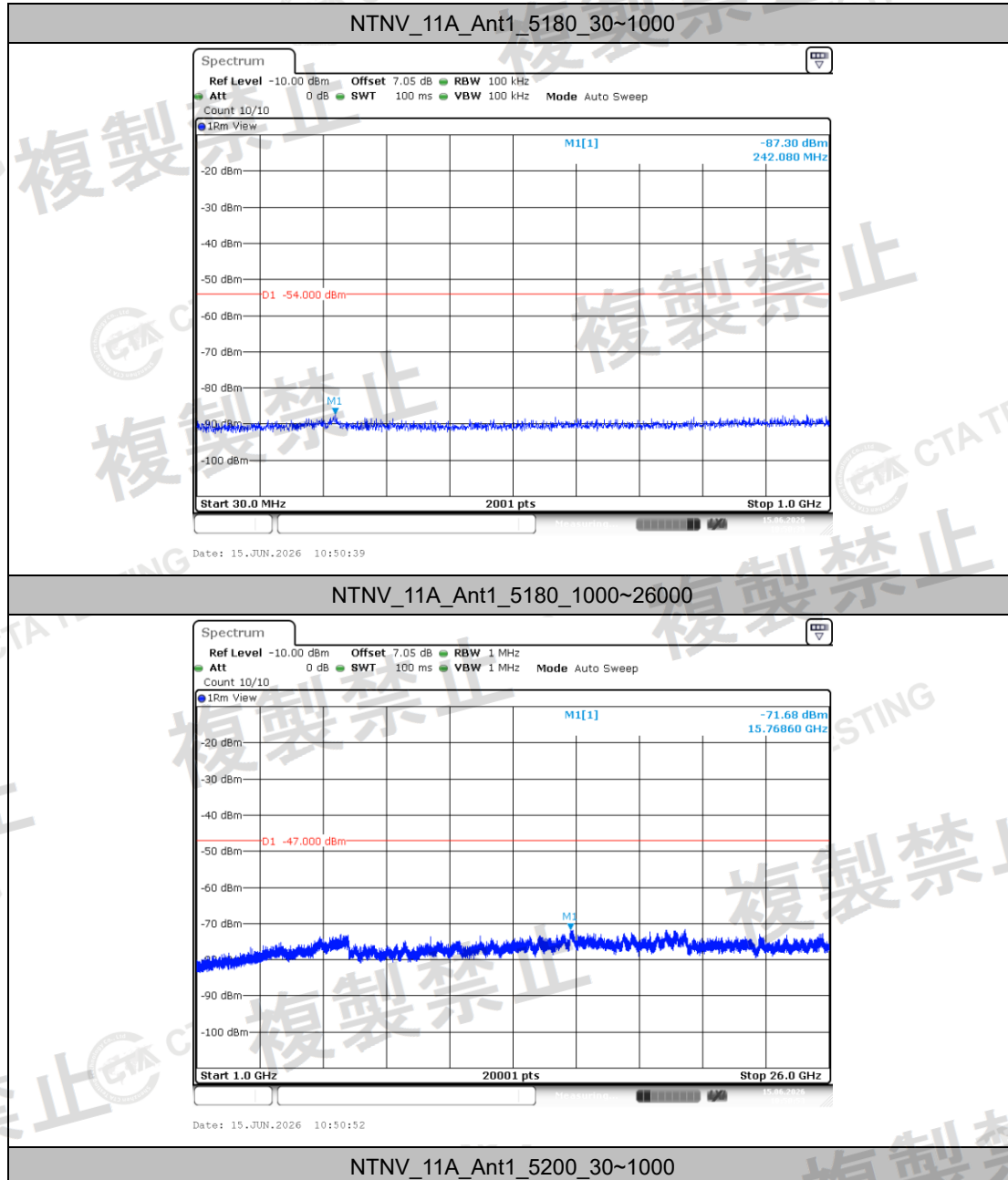
TestCondition	TestMode	Antenna	Freq(M Hz)	Freq.Range [MHz]	Freq. [MHz]	Result [dBm]	Limit [dBm]	Result [nW]	Limit [nW]	Verdict
NTNV	11A	Ant1	5180	30~1000	242.08	-87.30	≤-54	0.00186	≤4	PASS
				1000~26000	15768.60	-71.68	≤-47	0.06792	≤20	PASS
			5200	30~1000	854.82	-86.40	≤-54	0.00229	≤4	PASS
				1000~26000	15777.40	-70.44	≤-47	0.09036	≤20	PASS
			5240	30~1000	240.63	-87.49	≤-54	0.00178	≤4	PASS
				1000~26000	15796.10	-71.61	≤-47	0.06902	≤20	PASS
	11N20SI SO	Ant1	5180	30~1000	244.99	-86.82	≤-54	0.00208	≤4	PASS
				1000~26000	15781.10	-70.98	≤-47	0.07980	≤20	PASS
			5200	30~1000	941.10	-87.43	≤-54	0.00181	≤4	PASS
				1000~26000	19592.20	-71.30	≤-47	0.07413	≤20	PASS
			5240	30~1000	856.27	-87.56	≤-54	0.00175	≤4	PASS
				1000~26000	15801.10	-70.92	≤-47	0.08091	≤20	PASS
	11N40SI SO	Ant1	5190	30~1000	241.11	-87.45	≤-54	0.00180	≤4	PASS
				1000~26000	15826.10	-70.91	≤-47	0.08110	≤20	PASS
			5230	30~1000	907.17	-87.52	≤-54	0.00177	≤4	PASS
				1000~26000	16434.90	-71.43	≤-47	0.07194	≤20	PASS



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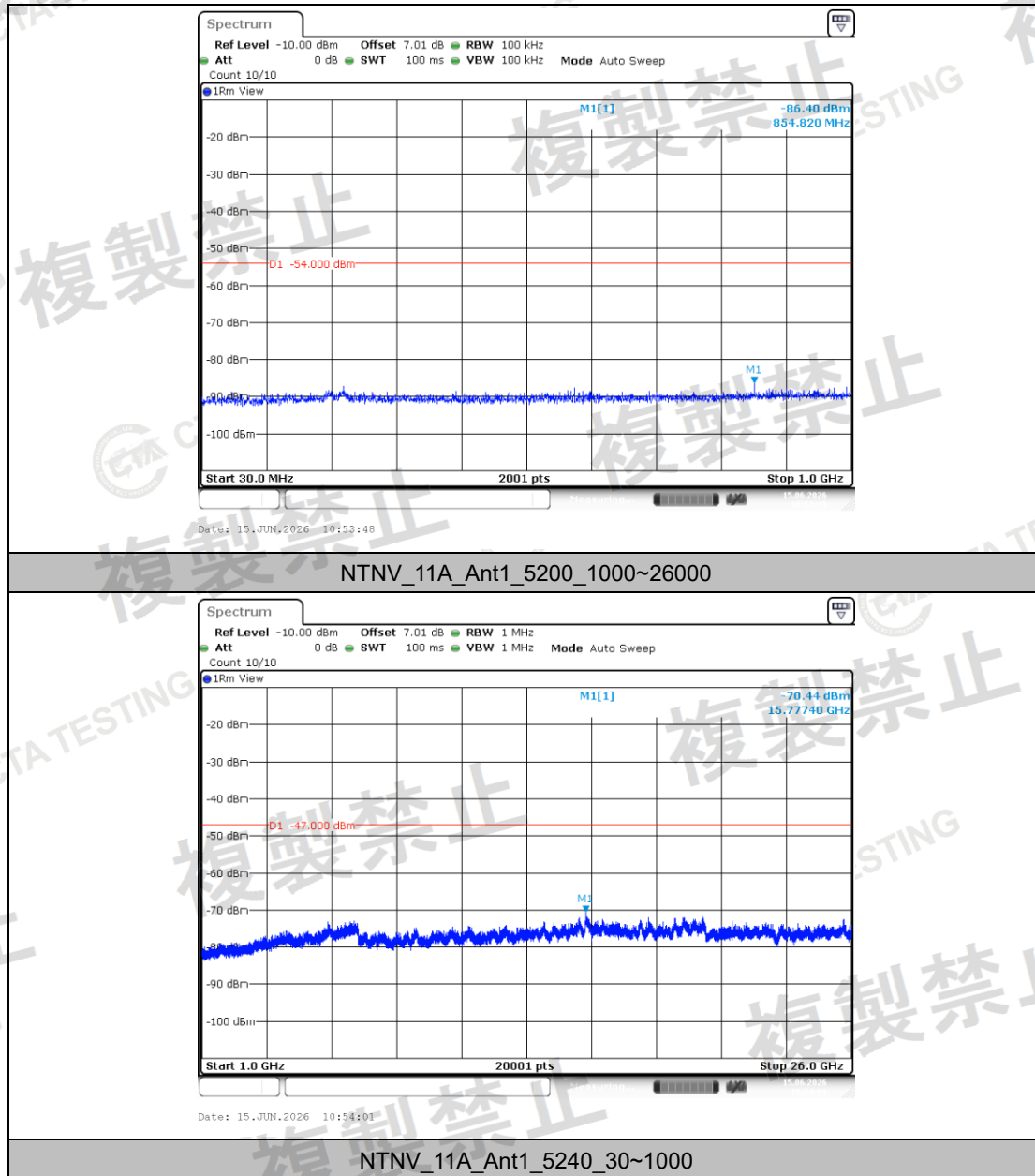
Test Graphs





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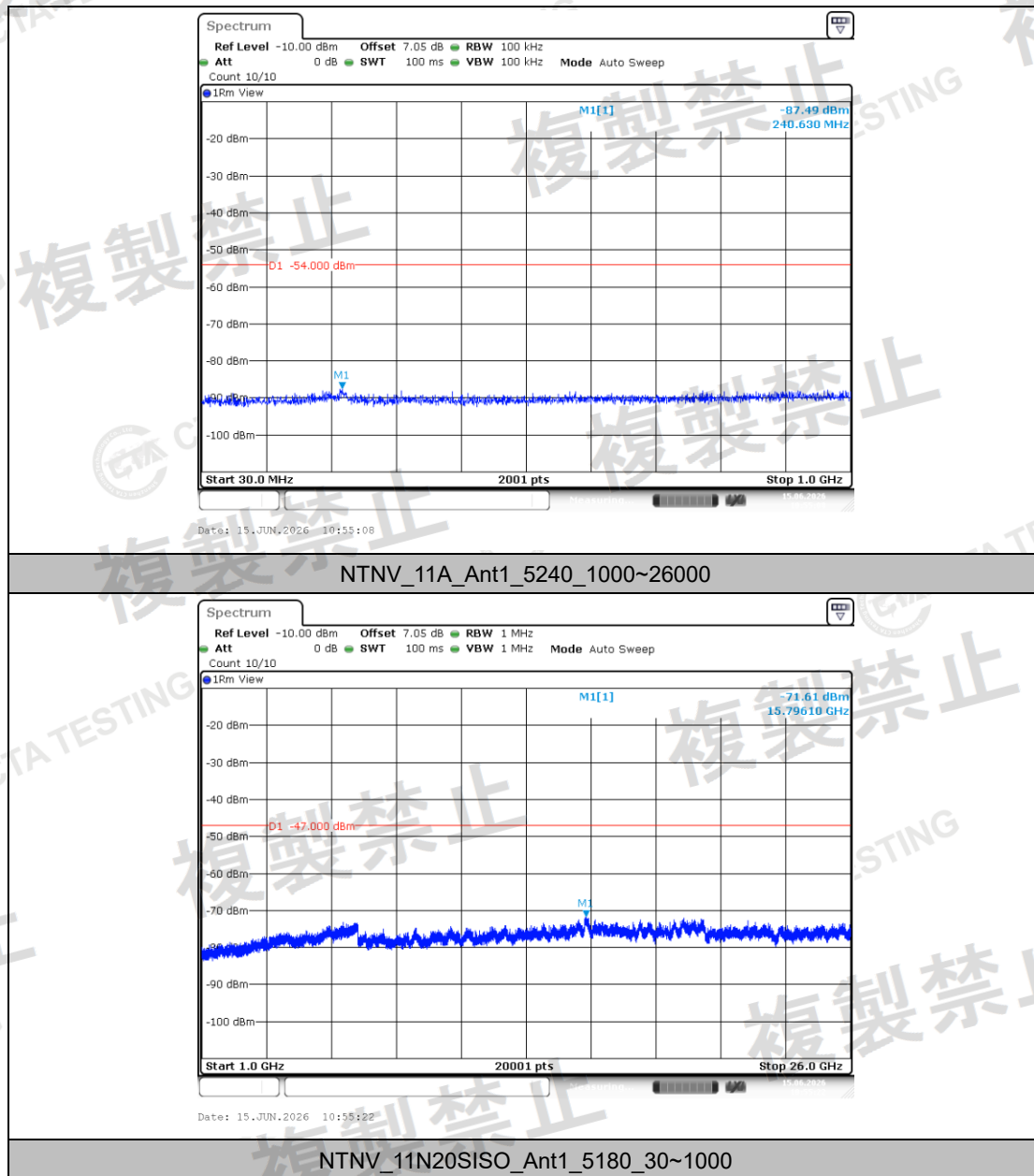
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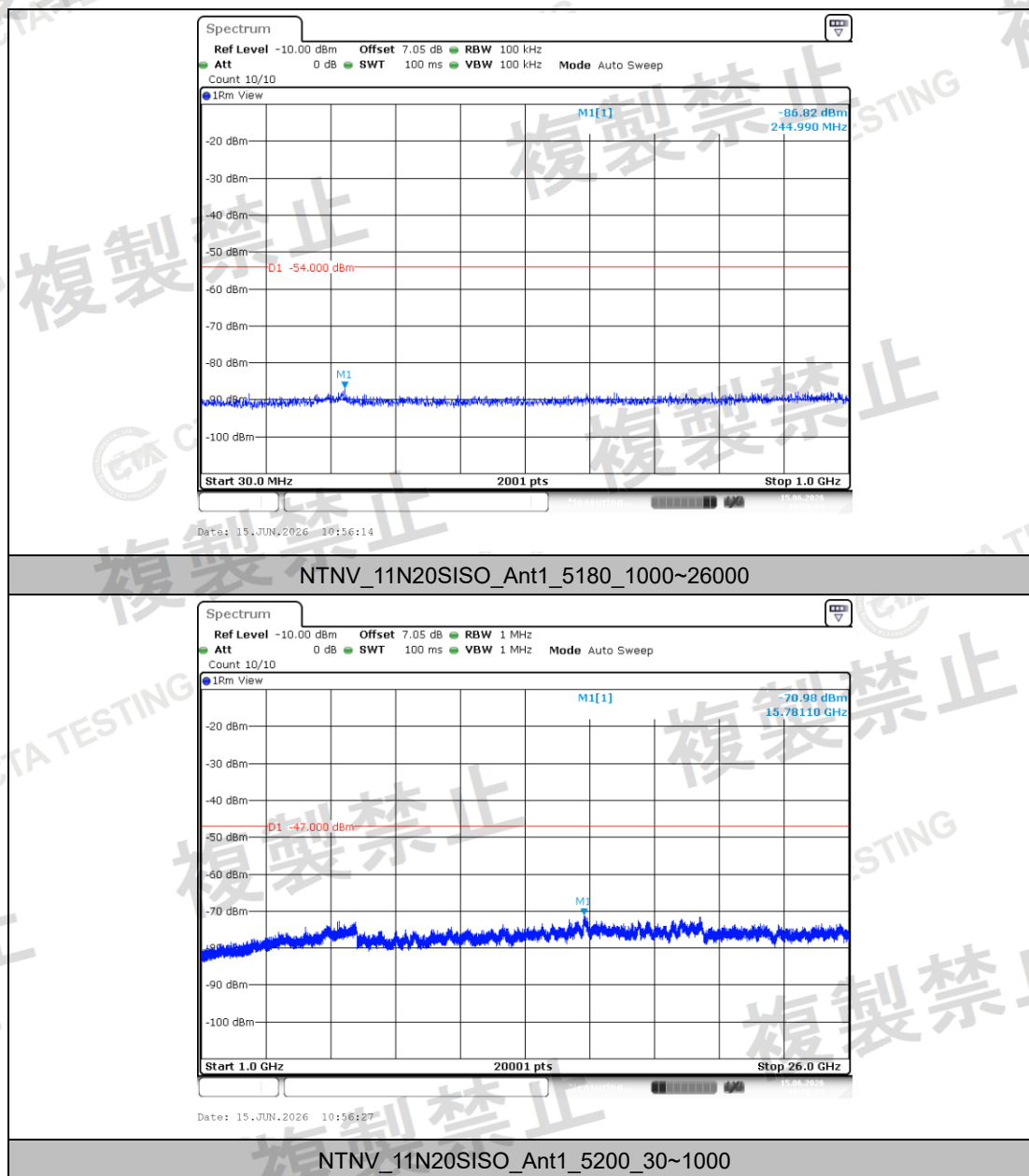
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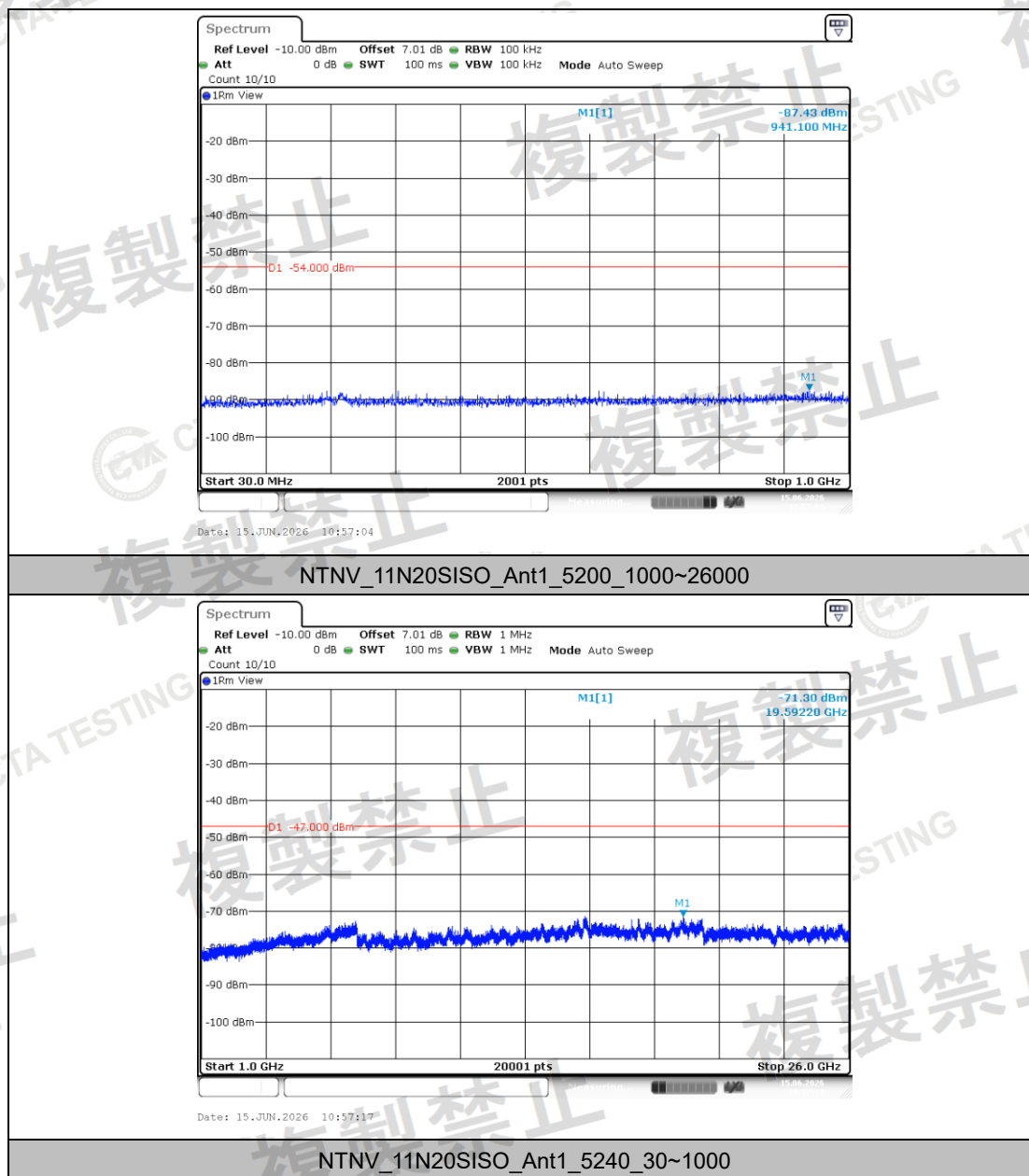
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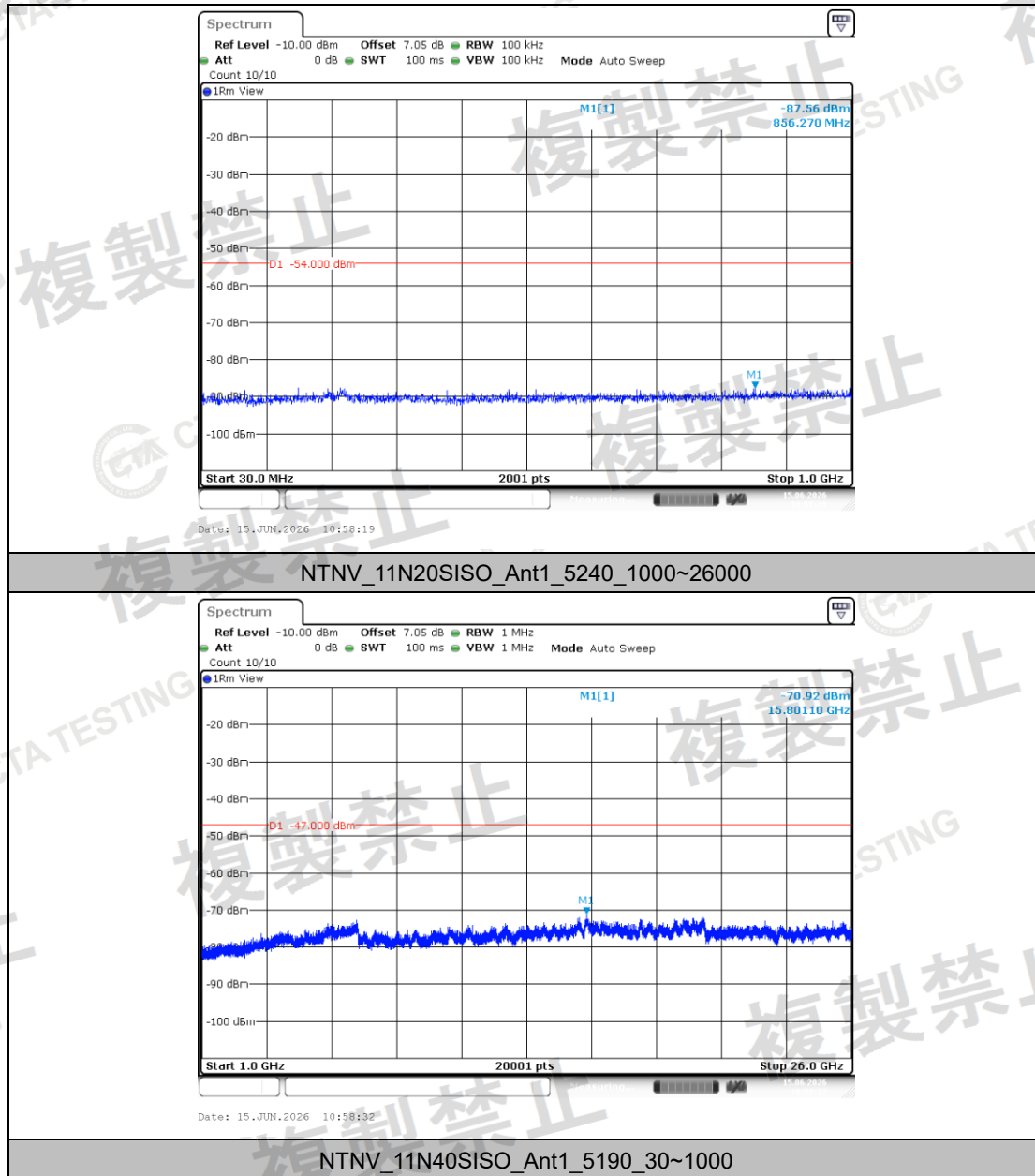
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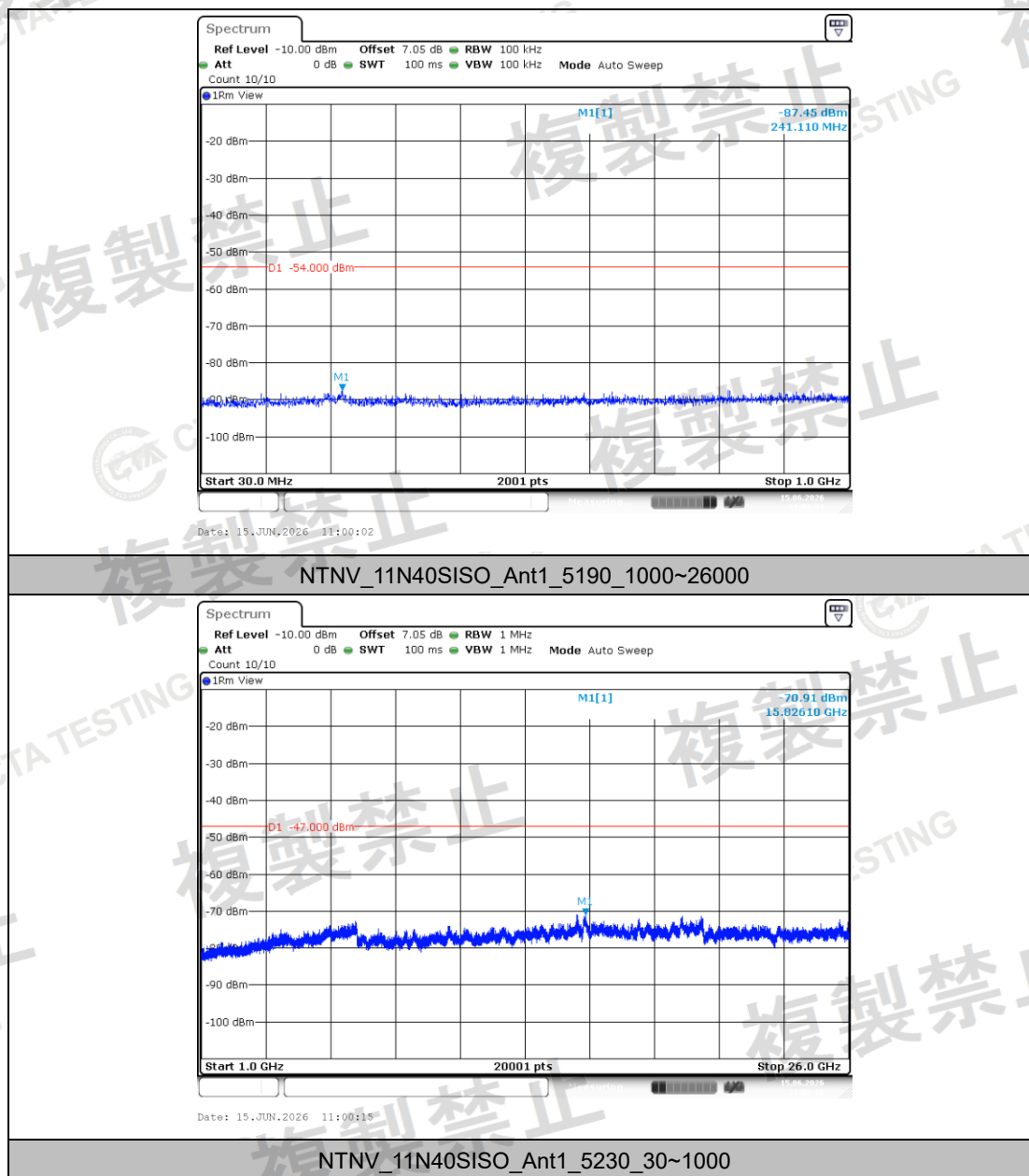
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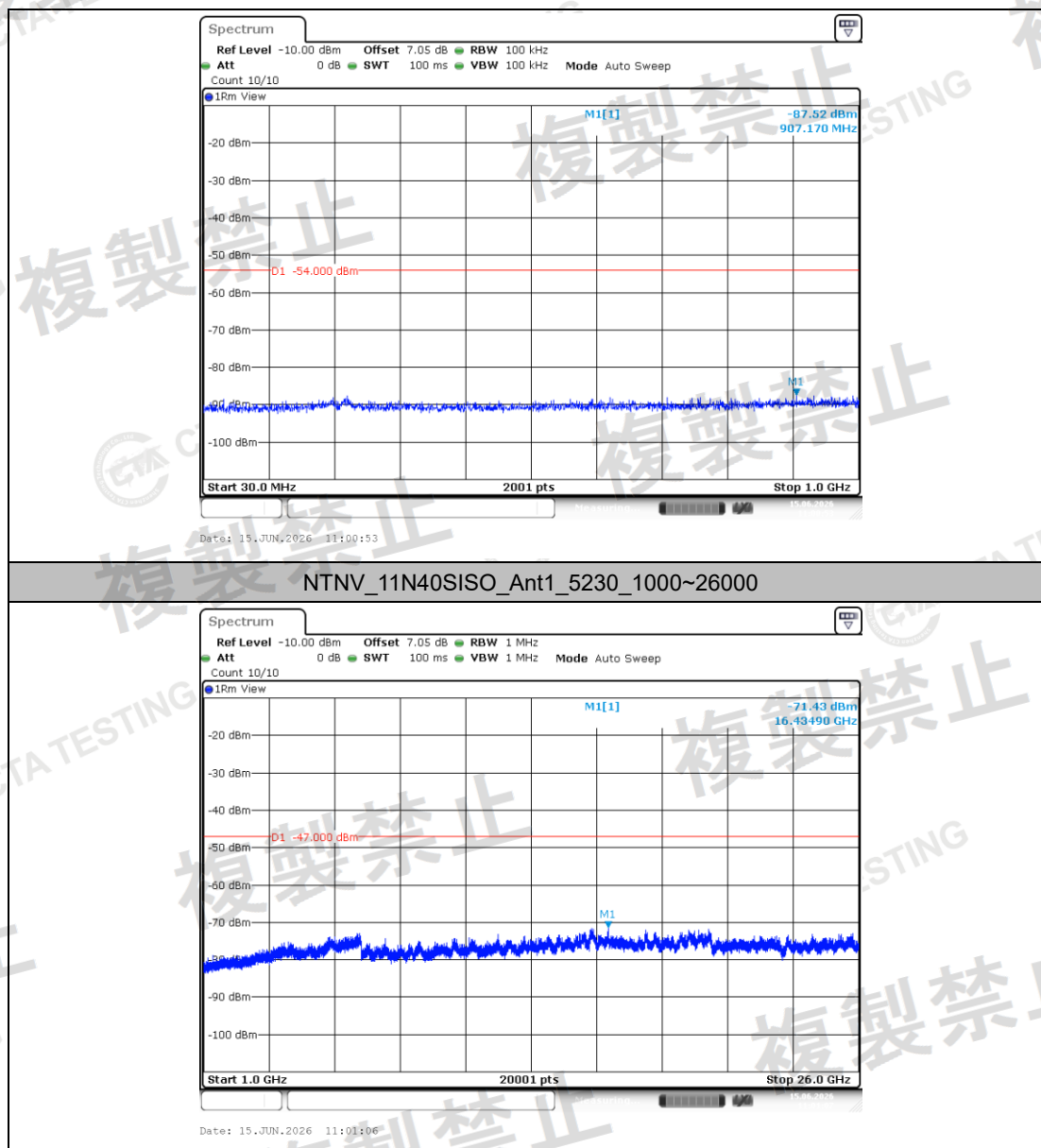
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Appendix E: Transmission Burst Length

Test Result

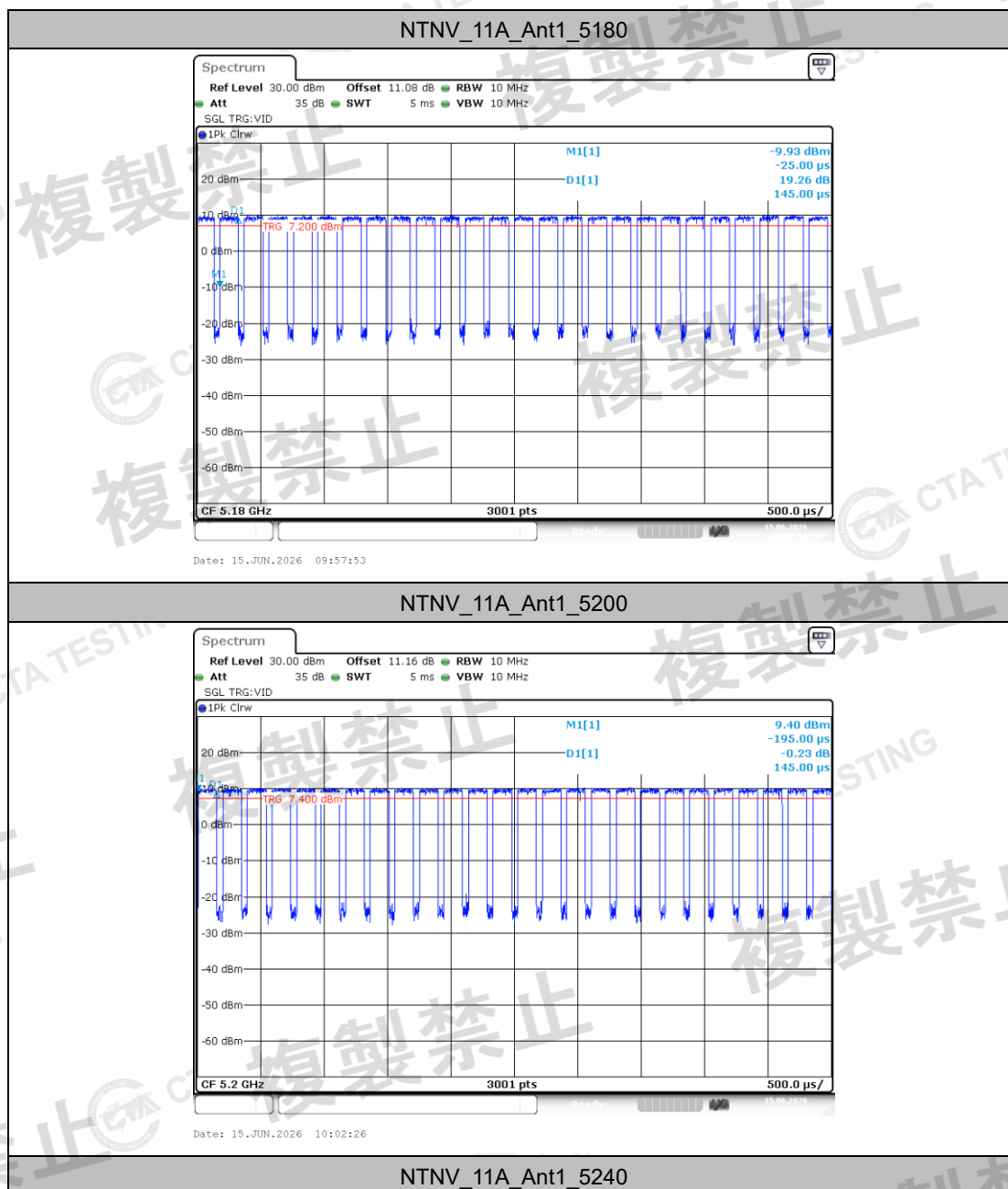
TestCondition	TestMode	Antenna	Freq(MHz)	Result [ms]	Limit [ms]	Verdict
NTNV	11A	Ant1	5180	0.15	≤8	PASS
			5200	0.15	≤8	PASS
			5240	0.14	≤8	PASS
	11N20SI SO	Ant1	5180	0.17	≤8	PASS
			5200	0.17	≤8	PASS
			5240	0.17	≤8	PASS
	11N40SI SO	Ant1	5190	0.18	≤8	PASS
			5230	0.18	≤8	PASS



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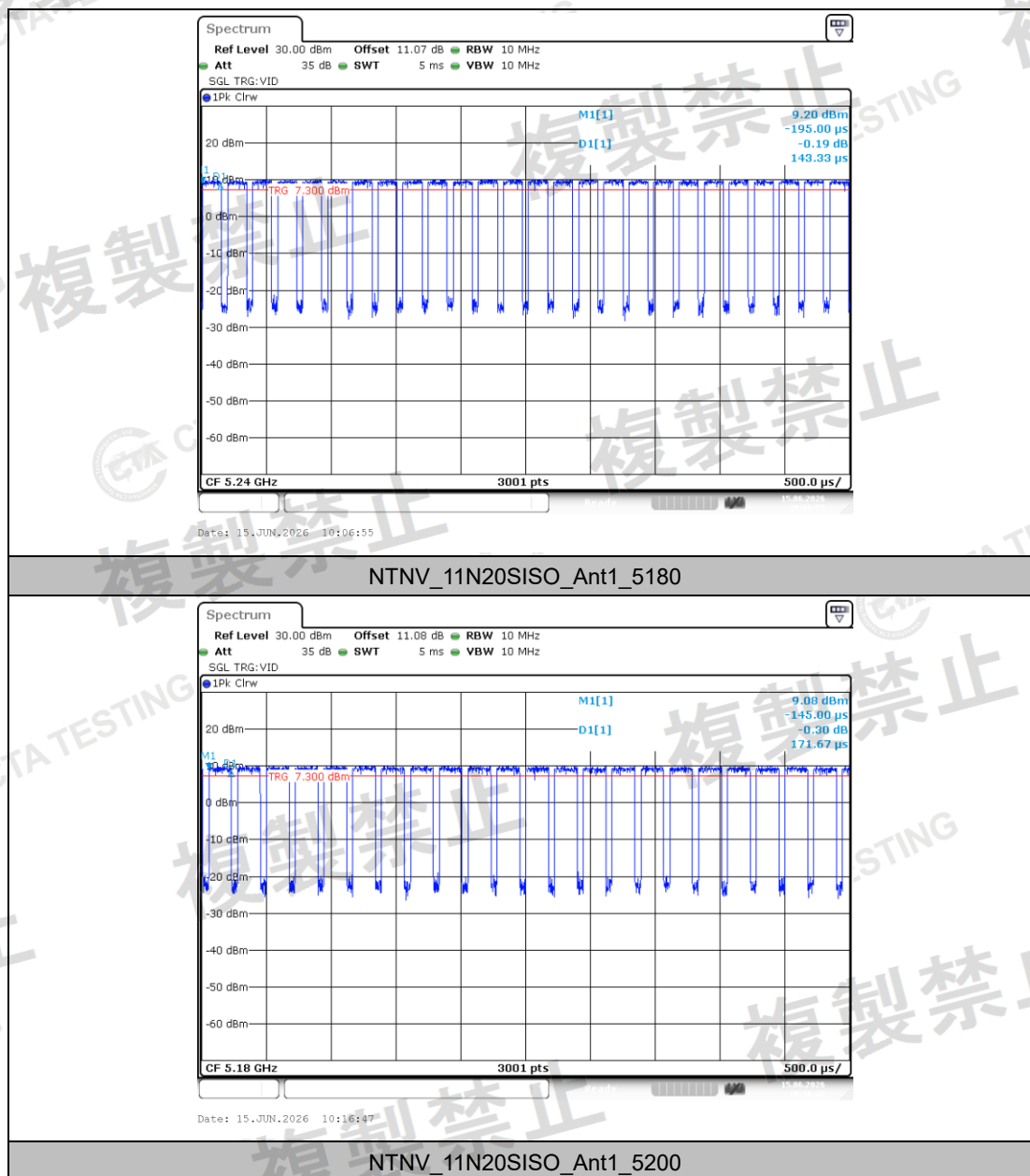
Test Graphs





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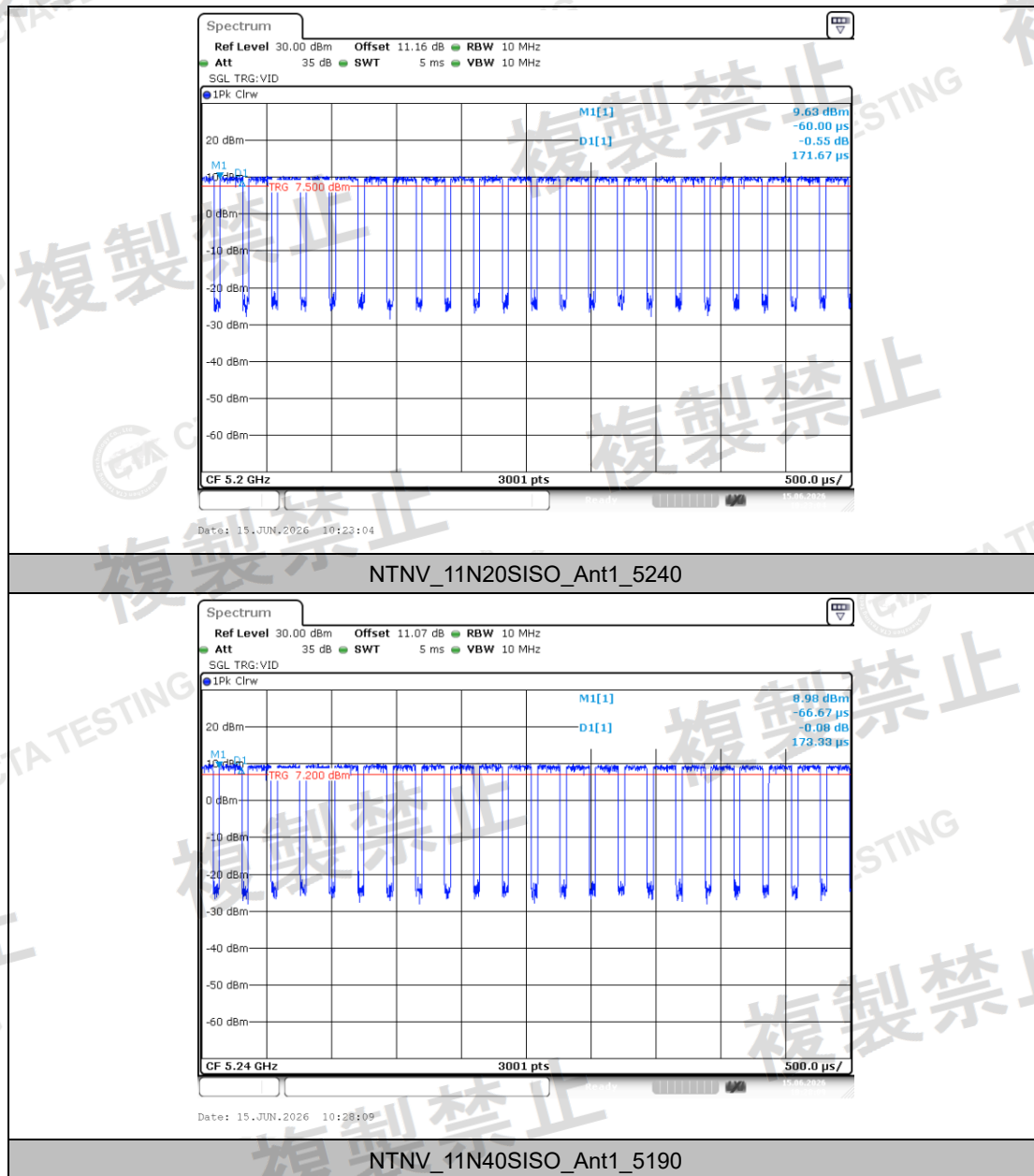
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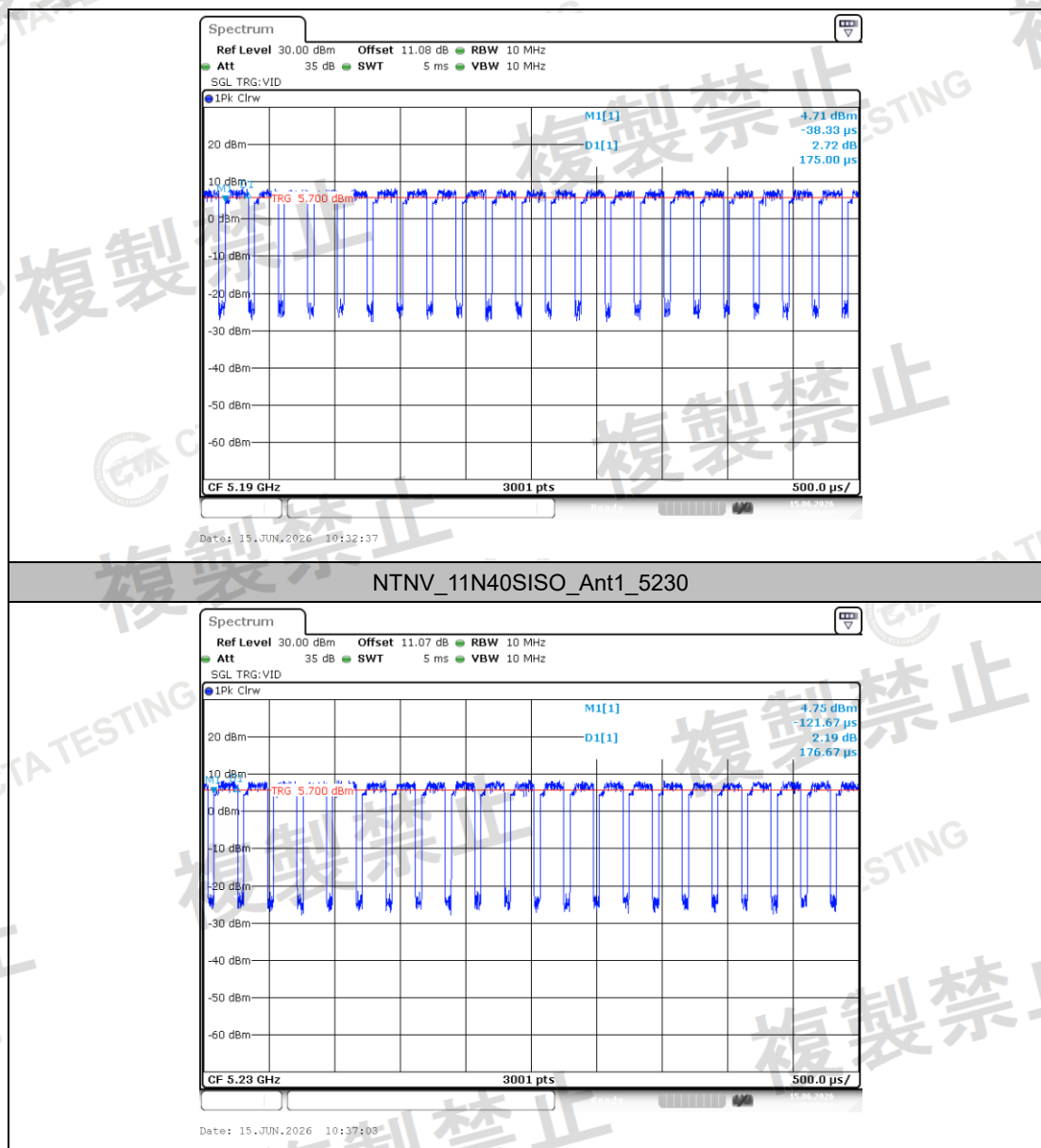
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Appendix F: Adjacent Channel Power Tolerance

Test Result

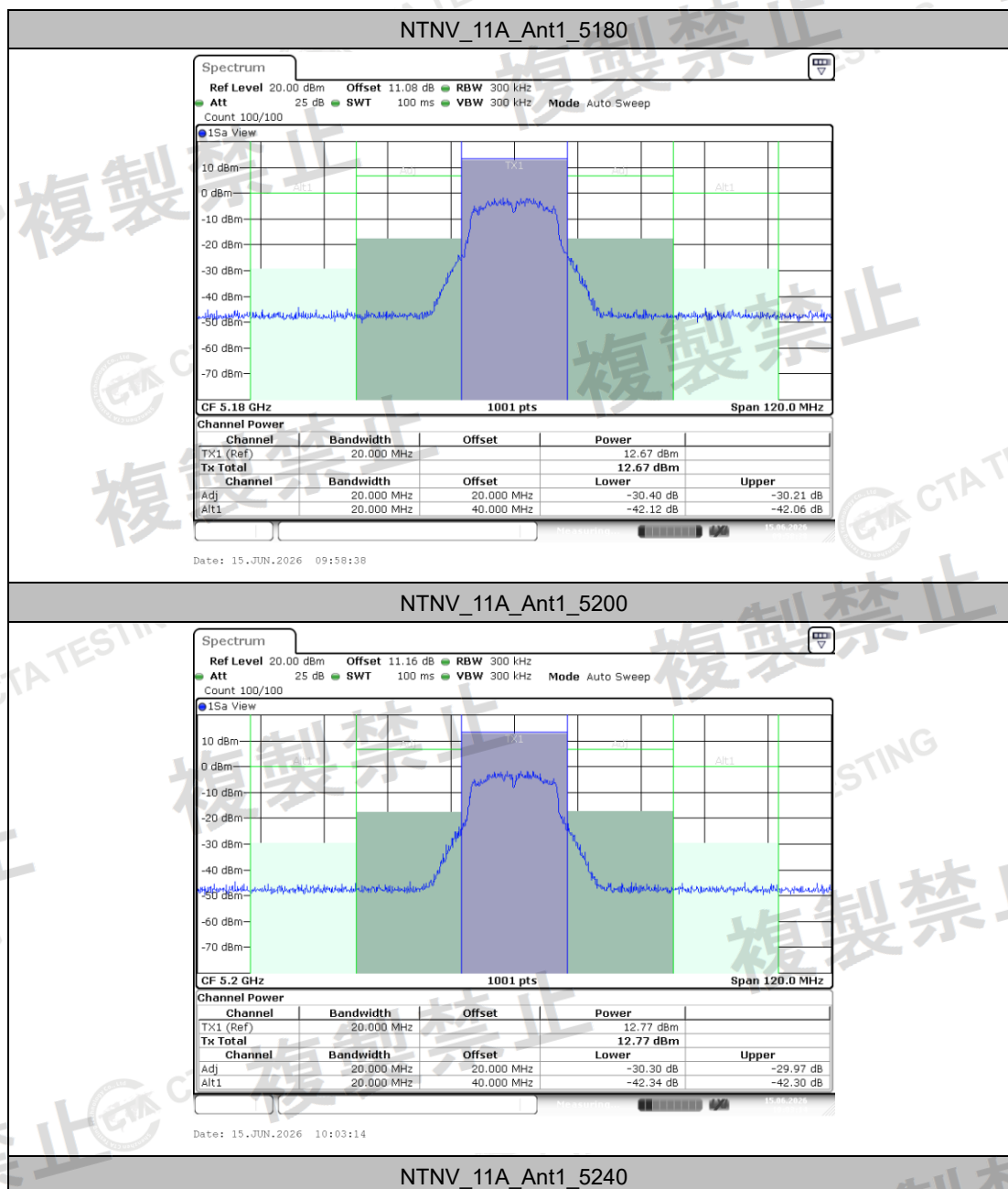
TestCondition	TestMode	Antenna	Freq(M Hz)	Offset [MHz]	Result [dBc]	Limit [dBc]	Verdict
NTNV	11A	Ant1	5180	-40	-42.12	≤-40	PASS
				-20	-30.40	≤-25	PASS
				+20	-30.21	≤-25	PASS
				+40	-42.06	≤-40	PASS
			5200	-40	-42.34	≤-40	PASS
				-20	-30.30	≤-25	PASS
				+20	-29.97	≤-25	PASS
				+40	-42.30	≤-40	PASS
			5240	-40	-42.34	≤-40	PASS
				-20	-30.37	≤-25	PASS
				+20	-30.66	≤-25	PASS
				+40	-42.37	≤-40	PASS
	11N20SI SO	Ant1	5180	-40	-41.99	≤-40	PASS
				-20	-29.73	≤-25	PASS
				+20	-29.27	≤-25	PASS
				+40	-41.92	≤-40	PASS
			5200	-40	-42.45	≤-40	PASS
				-20	-29.78	≤-25	PASS
				+20	-30.70	≤-25	PASS
				+40	-42.33	≤-40	PASS
			5240	-40	-42.11	≤-40	PASS
				-20	-29.78	≤-25	PASS
				+20	-30.41	≤-25	PASS
				+40	-42.11	≤-40	PASS
	11N40SI SO	Ant1	5190	-80	-44.70	≤-40	PASS
				-40	-33.73	≤-25	PASS
				+40	-33.84	≤-25	PASS
				+80	-44.97	≤-40	PASS
			5230	-80	-44.91	≤-40	PASS
				-40	-33.90	≤-25	PASS
				+40	-34.63	≤-25	PASS
				+80	-45.38	≤-40	PASS



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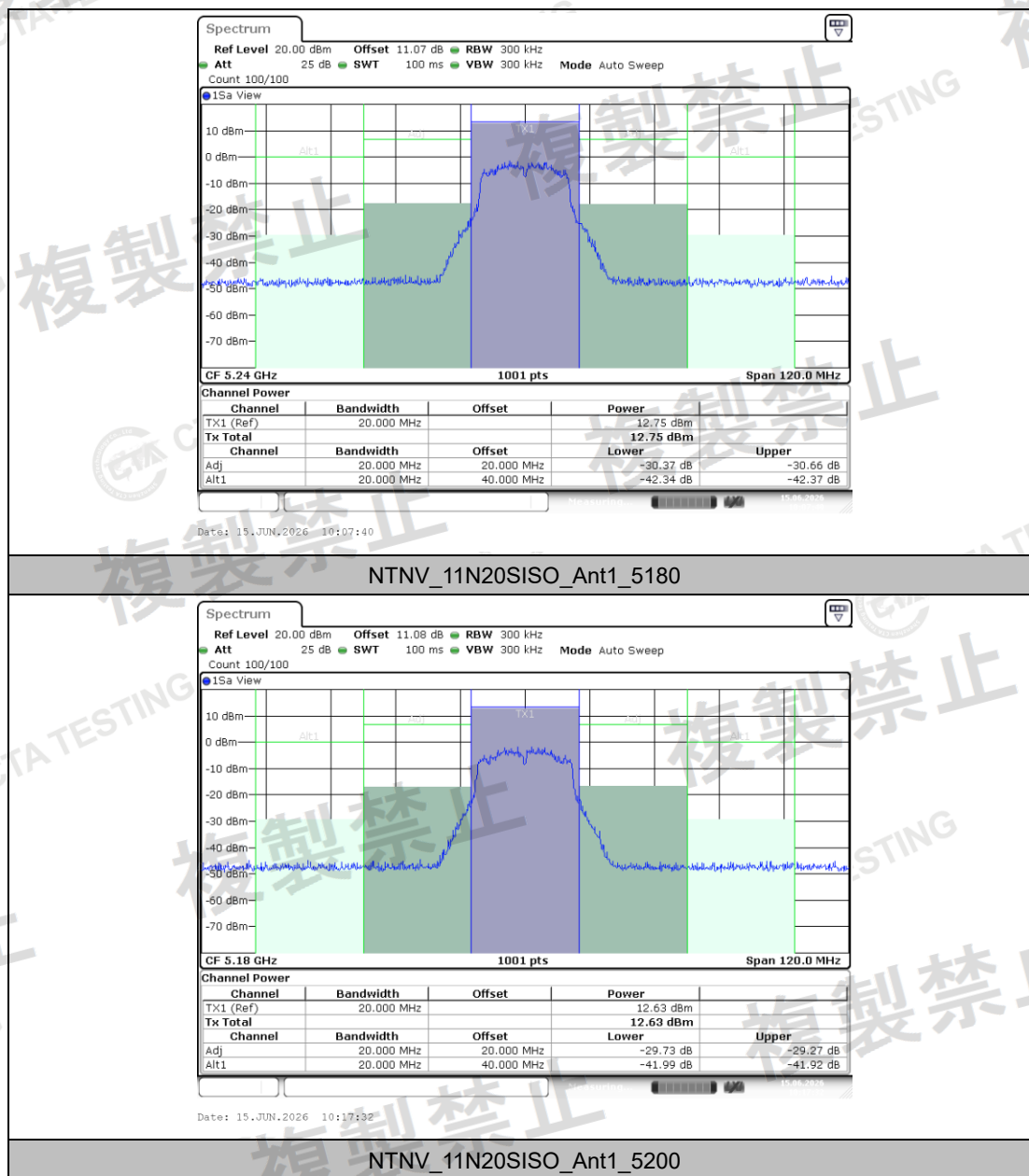
Test Graphs





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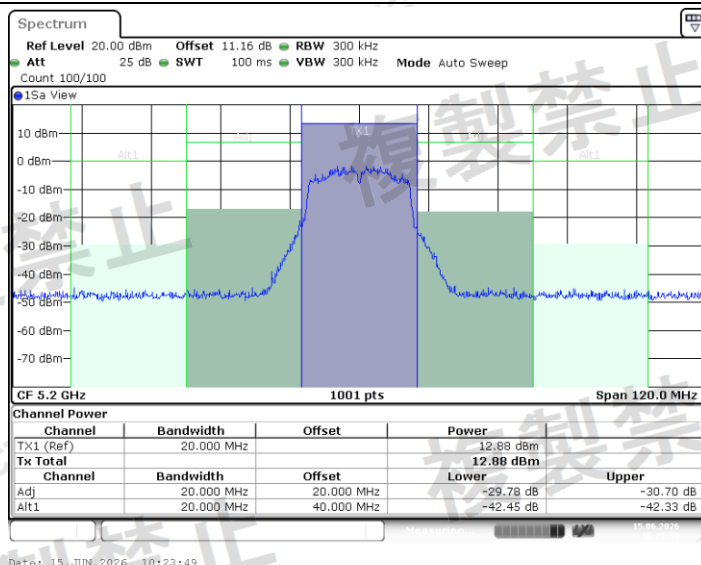
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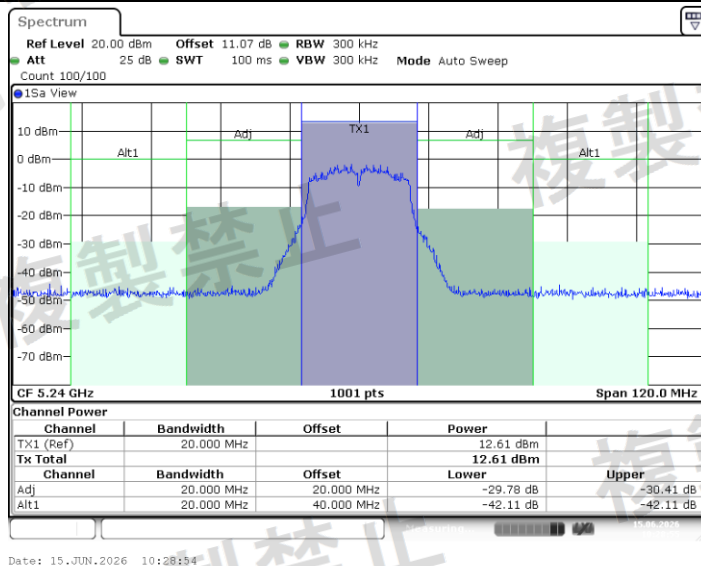


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NTNV_11N20SISO_Ant1_5240



NTNV_11N40SISO_Ant1_5190



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