

Appendix C: Test Results of 2.4GHz SRD

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Appendix C.1: Test Results of Frequency Tolerance

Test Result

TestCondition	TestMode	Antenna	Freq(MHz)	Result[ppm]	Limit[ppm]	Verdict
NTNV	SRD	Ant1	2401.6	-34.35210	±50	PASS
			2440	-29.71312	±50	PASS
			2480	-39.31452	±50	PASS

Appendix C.2: Test Results of Antenna Power

Test Result

Antenna Power							
TestCondition	TestMode	Antenna	Freq(MHz)	Result(dBm)	Result(mW)	Limit(mW)	Verdict
NTNV	SRD	Ant1	2401.6	6.83	4.820	≤10	PASS
			2440	6.86	4.853	≤10	PASS
			2480	7.01	5.023	≤10	PASS

Tolerance								
Test Condition	TestMode	Antenna	Freq(MHz)	Power (mW)	RatedPower (mW)	Result (%)	Limit (%)	Verdict
NTNV	SRD	Ant1	2401.6	4.820	10	-51.81	+20	PASS
			2440	4.853	10	-51.47	+20	PASS
			2480	5.023	10	-49.77	+20	PASS

EIRP							
TestCondition	TestMode	Antenna	Freq(MHz)	Power (dBm)	EIRP(dBm)	Limit(dBm)	Verdict
NTNV	SRD	Ant1	2401.6	6.83	9.83	≤12.14	PASS
			2440	6.86	9.86	≤12.14	PASS
			2480	7.01	10.01	≤12.14	PASS

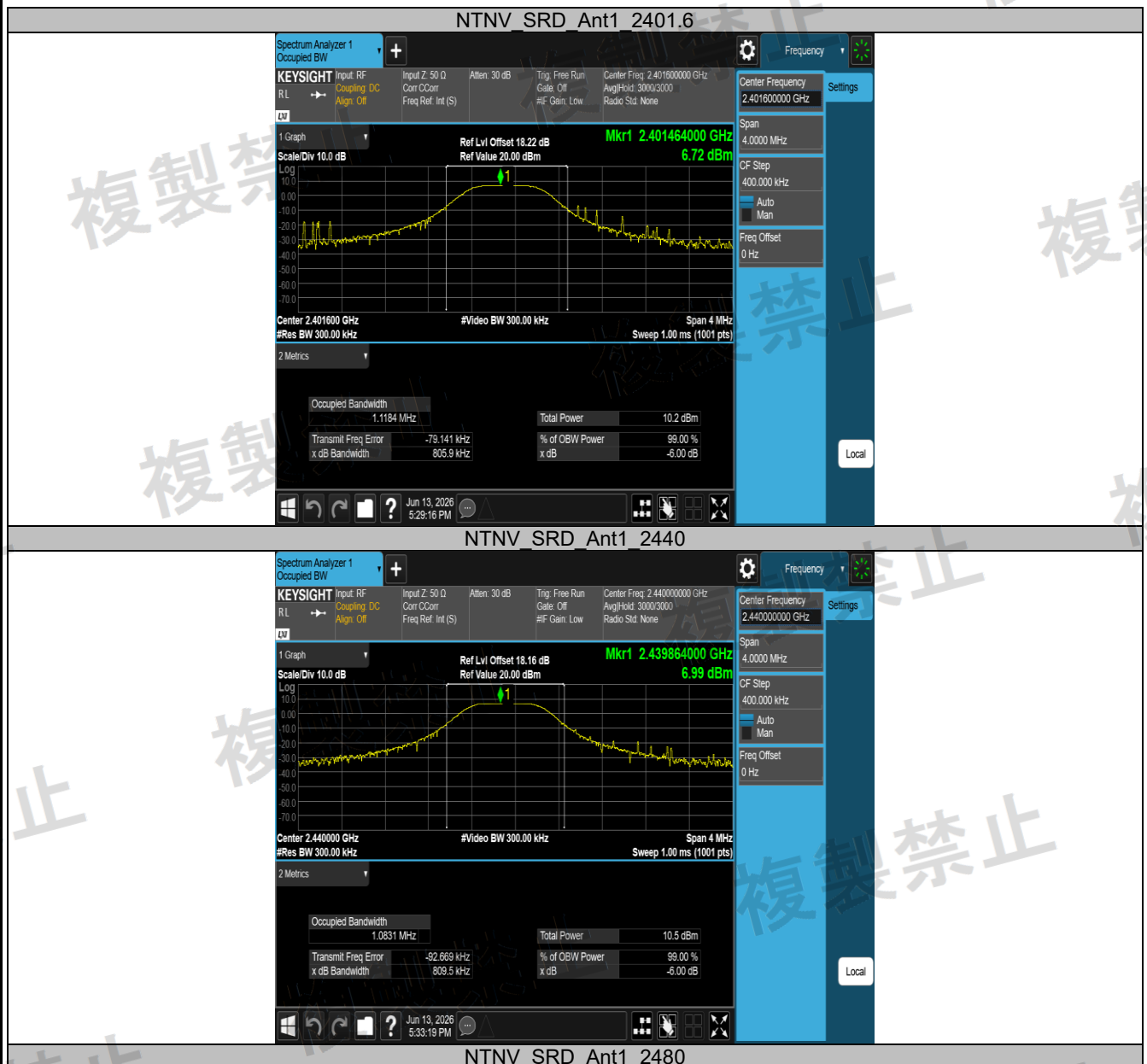
Antenna Gain: 3dBi

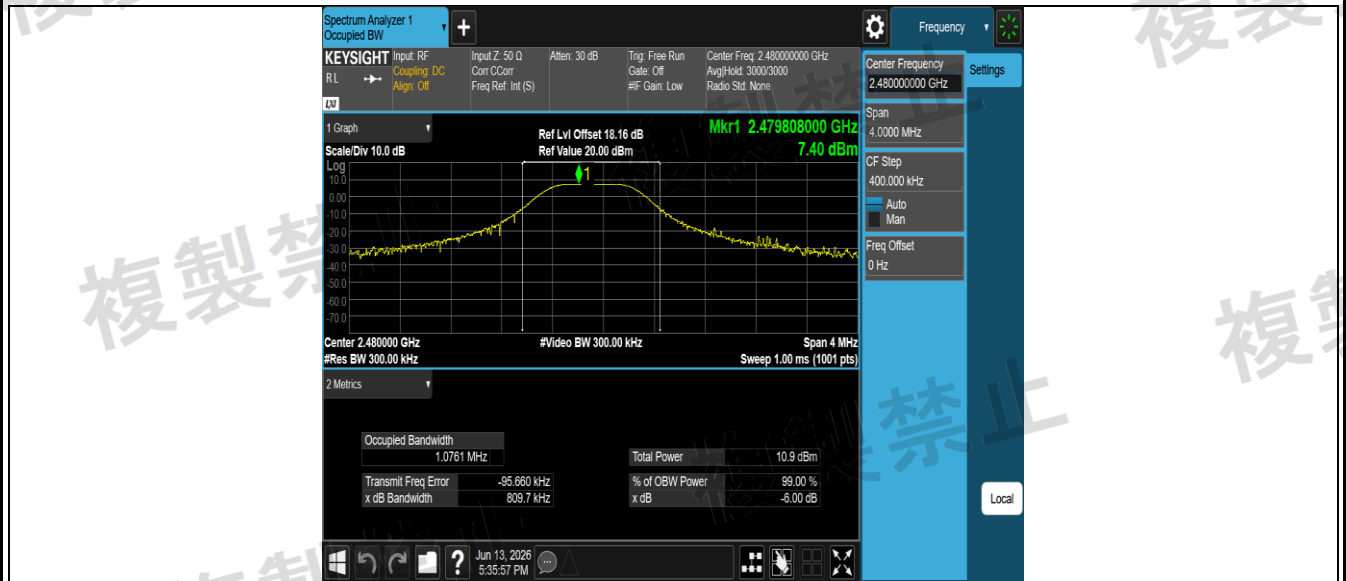
Appendix C.3: Test Results of Occupied Channel Bandwidth (99%)

Test Result

TestCondition	TestMode	Antenna	Freq(MHz)	Result [MHz]	Limit [MHz]	Verdict
NTNV	SRD	Ant1	2401.6	1.118	≤26	PASS
			2440	1.083	≤26	PASS
			2480	1.076	≤26	PASS

Test Graphs



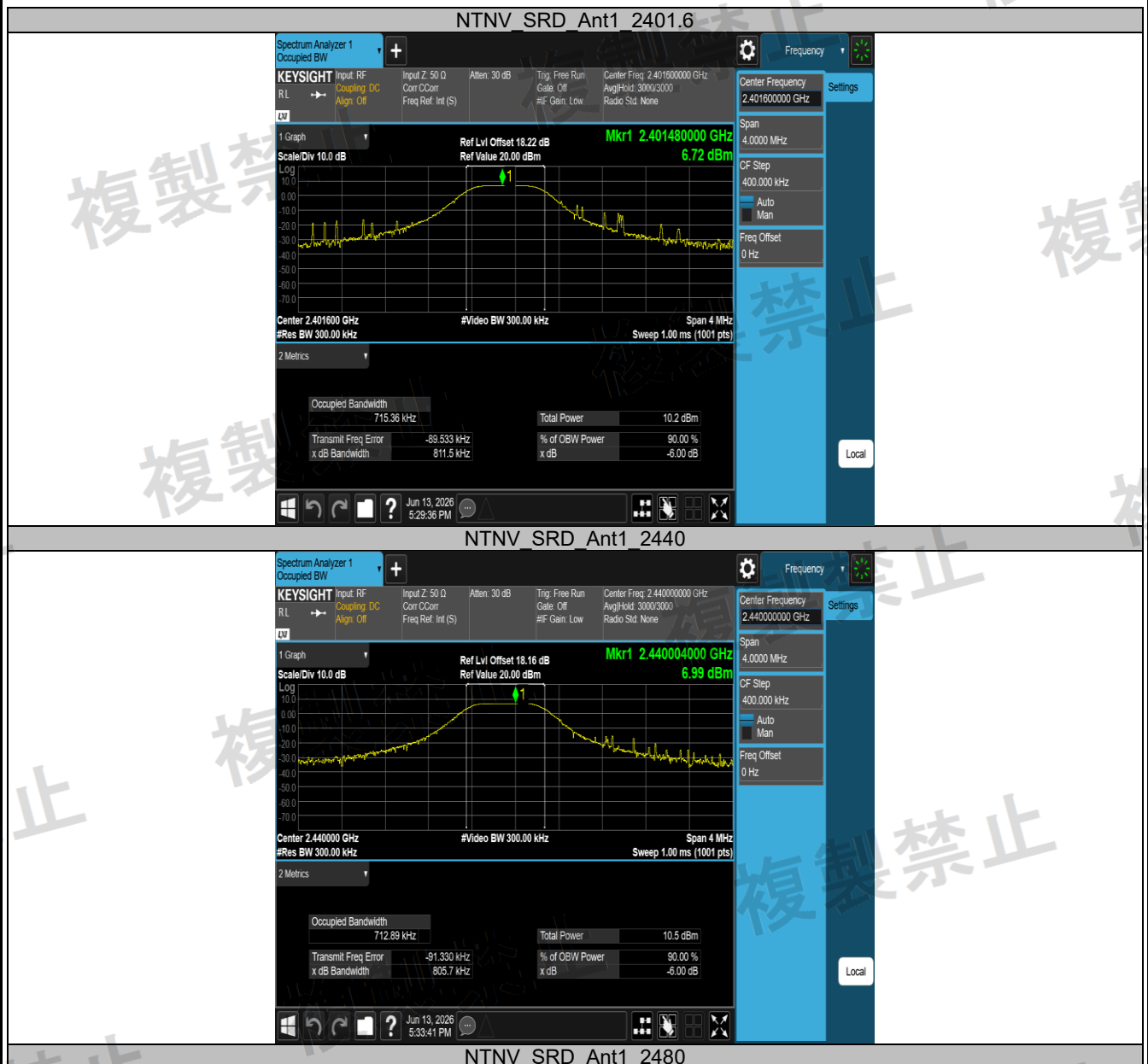


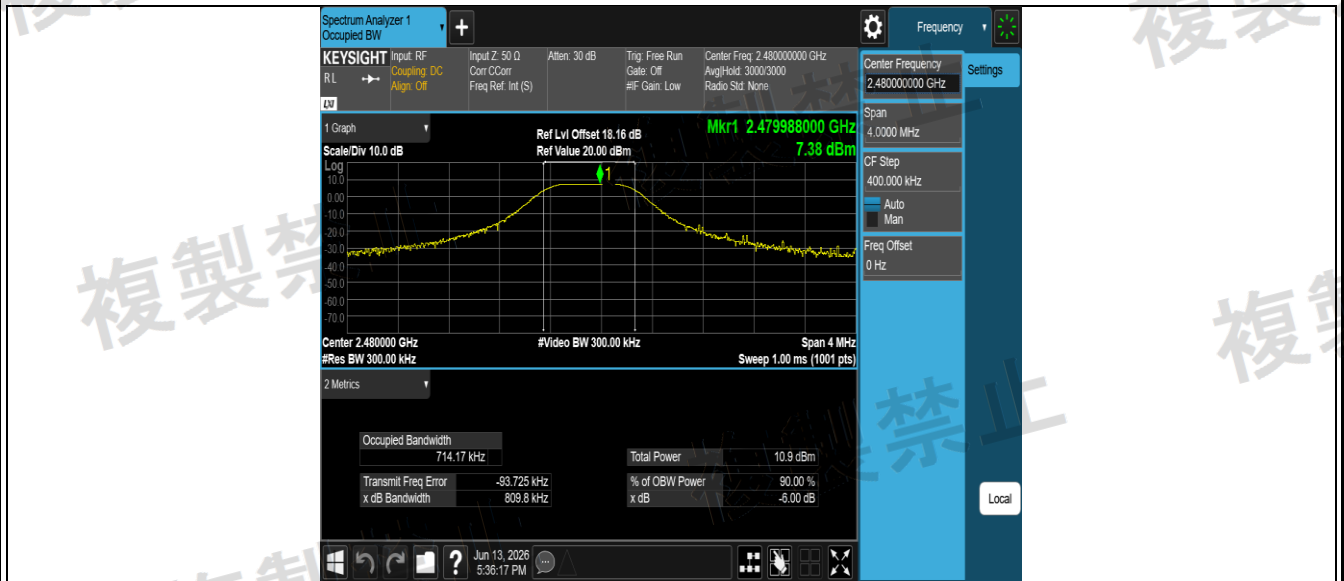
Appendix C.4: Test Results of Spread Bandwidth (90%)

Test Result

TestCondition	TestMode	Antenna	Freq(MHz)	Result [MHz]	Limit [MHz]	Verdict
NTNV	SRD	Ant1	2401.6	0.715	≥0.5	PASS
			2440	0.713	≥0.5	PASS
			2480	0.714	≥0.5	PASS

Test Graphs





Appendix C.5: Test Results of Spurious Emissions for Transmitter

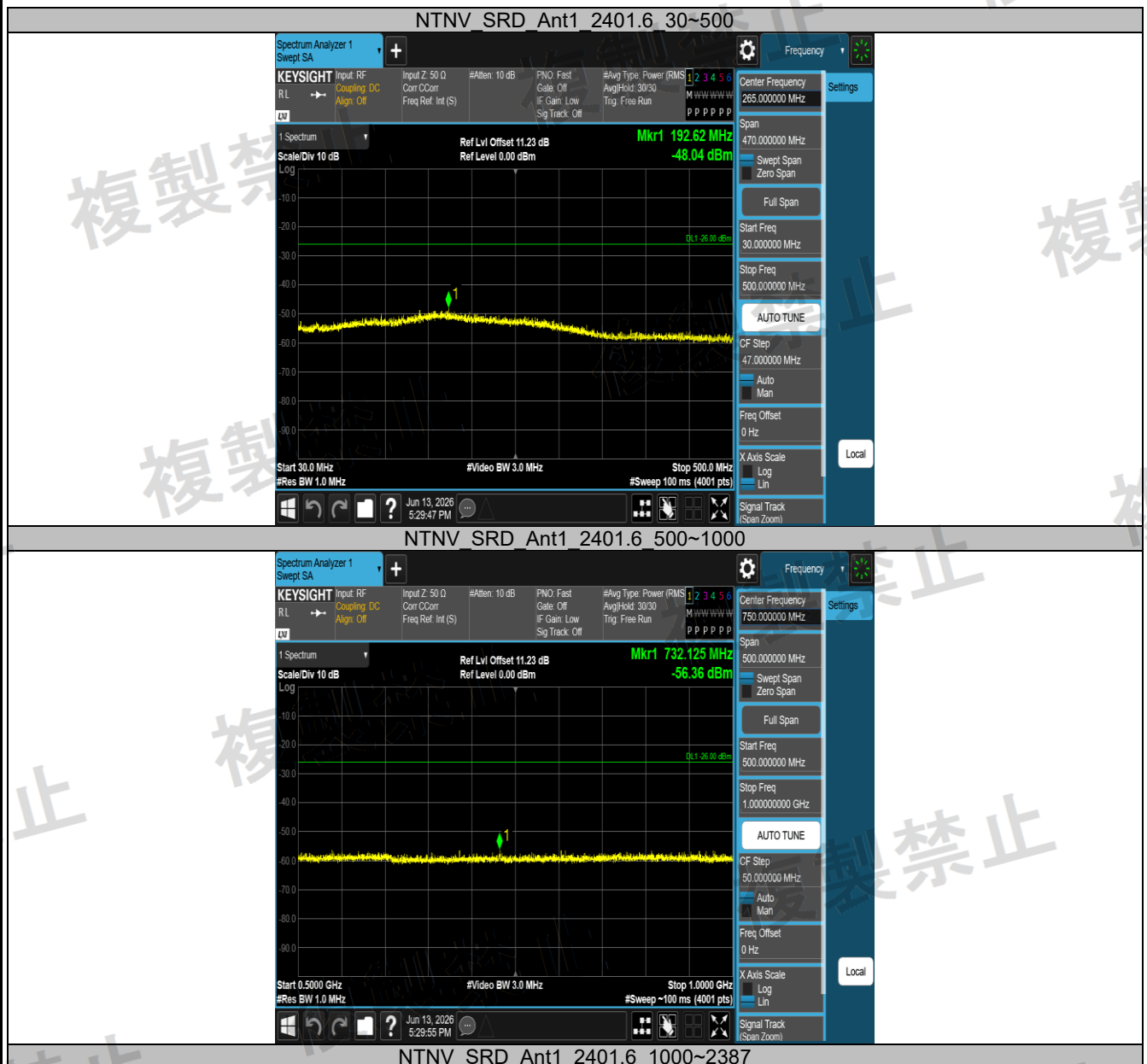
Test Result

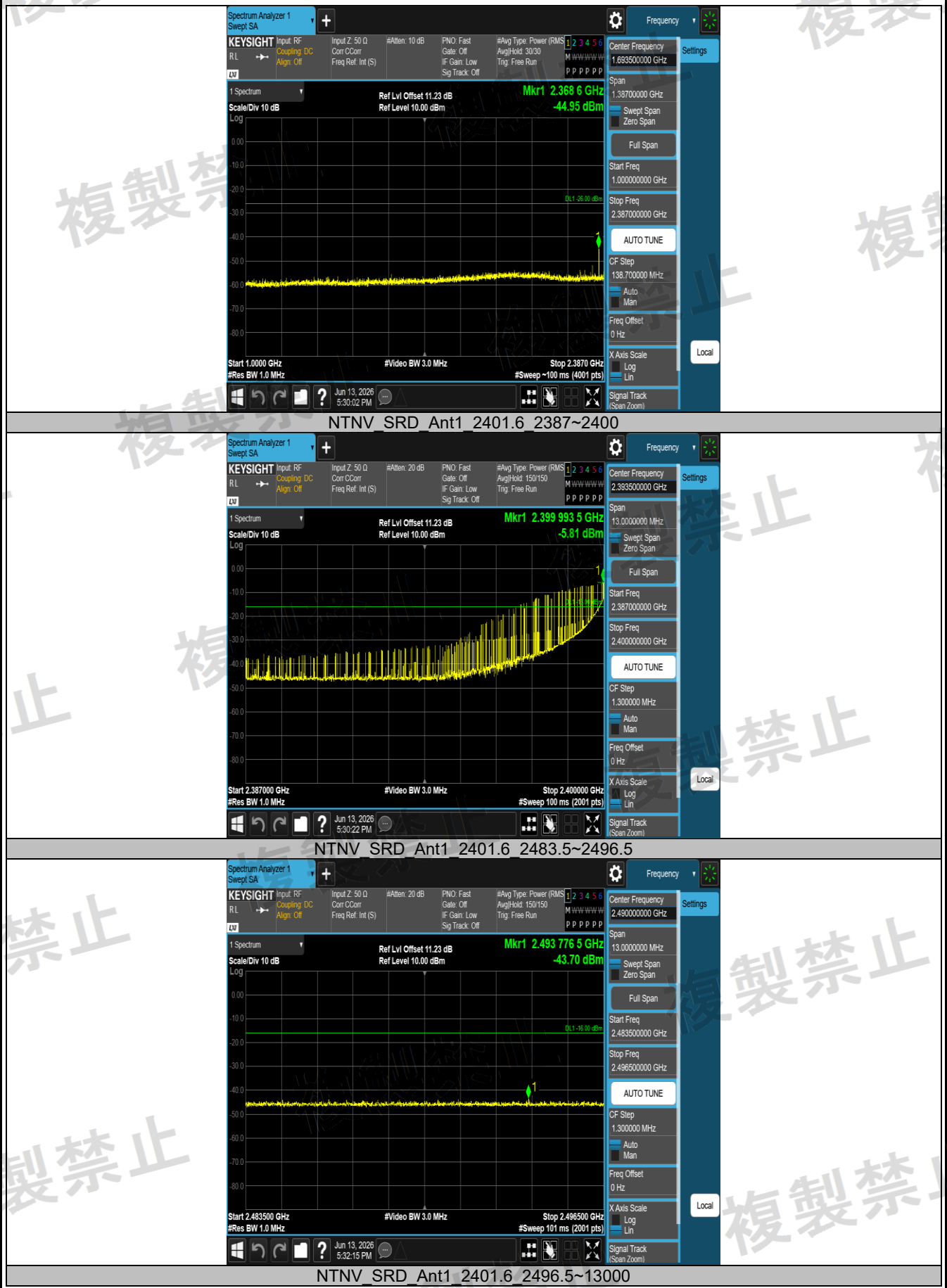
Test Condition	Test Mode	Antenna	Freq (MHz)	Freq.Range [MHz]	Freq. [MHz]	Result [dBm]	Limit [dBm]	Result [μW]	Limit [μW]	Verdict
NTNV	SRD	Ant1	2401.6	30~500	192.62	-48.05	≤-26	0.01567	≤2.5	PASS
				500~1000	732.13	-56.36	≤-26	0.00231	≤2.5	PASS
				1000~2387	2368.62	-44.95	≤-26	0.03199	≤2.5	PASS
				2387~2400	2399.99	-5.81	≤-16	262.42185	≤25	See table below
				2483.5~2496.5	2493.78	-43.70	≤-16	0.04266	≤25	PASS
				2496.5~13000	3745.37	-53.48	≤-26	0.00449	≤2.5	PASS
			2440	30~500	197.79	-48.61	≤-26	0.01377	≤2.5	PASS
				500~1000	928.63	-55.79	≤-26	0.00264	≤2.5	PASS
				1000~2387	2382.49	-49.50	≤-26	0.01122	≤2.5	PASS
				2387~2400	2389.32	-42.72	≤-16	0.05346	≤25	PASS
				2483.5~2496.5	2484.18	-41.84	≤-16	0.06546	≤25	PASS
				2496.5~13000	2511.20	-50.53	≤-26	0.00885	≤2.5	PASS
			2480	30~500	179.11	-47.18	≤-26	0.01914	≤2.5	PASS
				500~1000	542.00	-56.53	≤-26	0.00222	≤2.5	PASS
				1000~2387	2071.46	-53.39	≤-26	0.00458	≤2.5	PASS
				2387~2400	2390.30	-43.57	≤-16	0.04395	≤25	PASS
				2483.5~2496.5	2483.51	-24.33	≤-16	3.68978	≤25	PASS
				2496.5~13000	3733.81	-54.28	≤-26	0.00373	≤2.5	PASS

Test Result_Step2

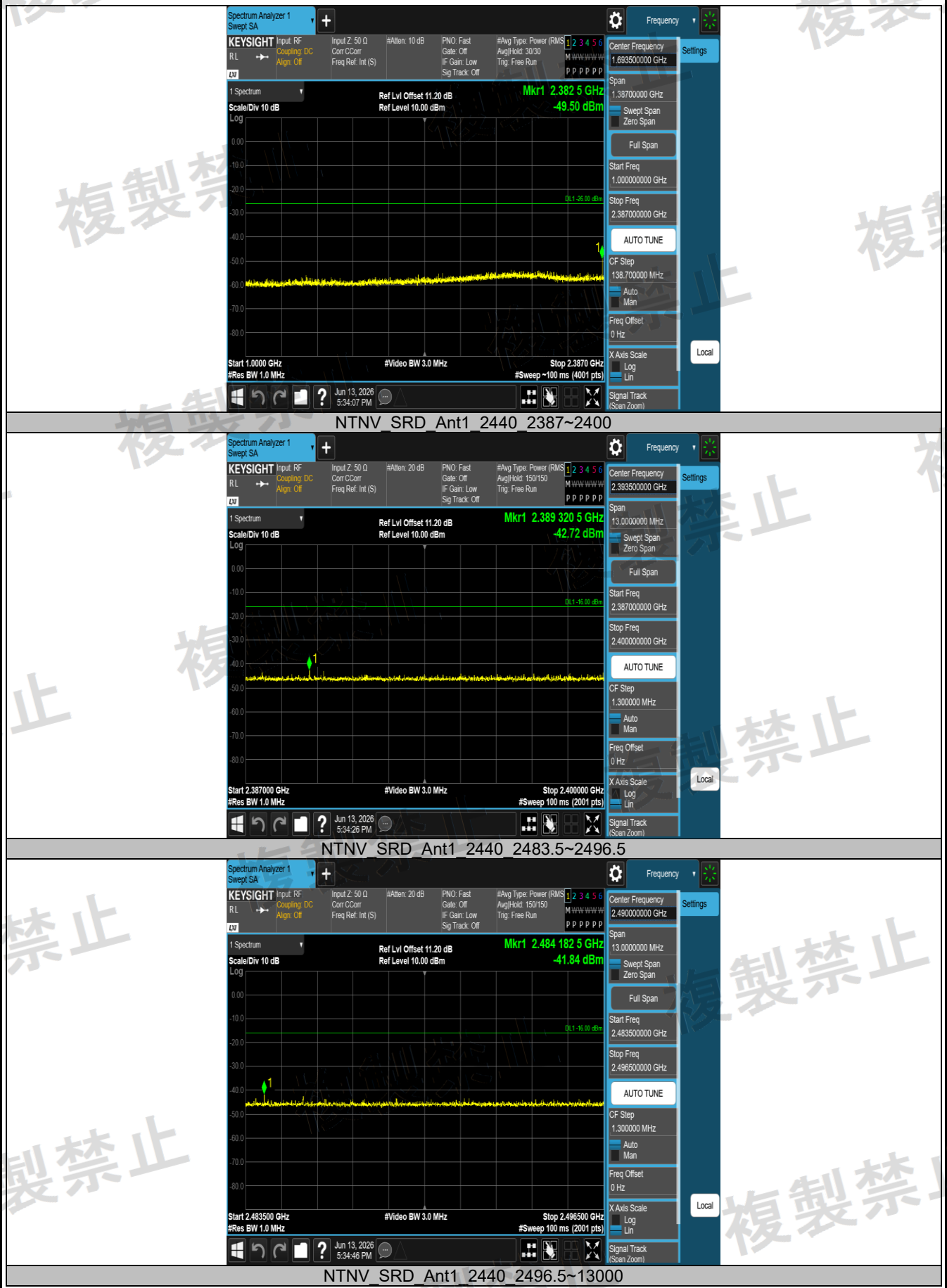
Test Condition	Test Mode	Antenna	Freq(MHz)	Freq. [MHz]	Result [dBm]	Limit [dBm]	Result [μW]	Limit [μW]	Verdict
NTNV	SRD	Ant1	2401.6	2399.99	-27.01	≤-16	1.99067	≤25	PASS

Test Graphs

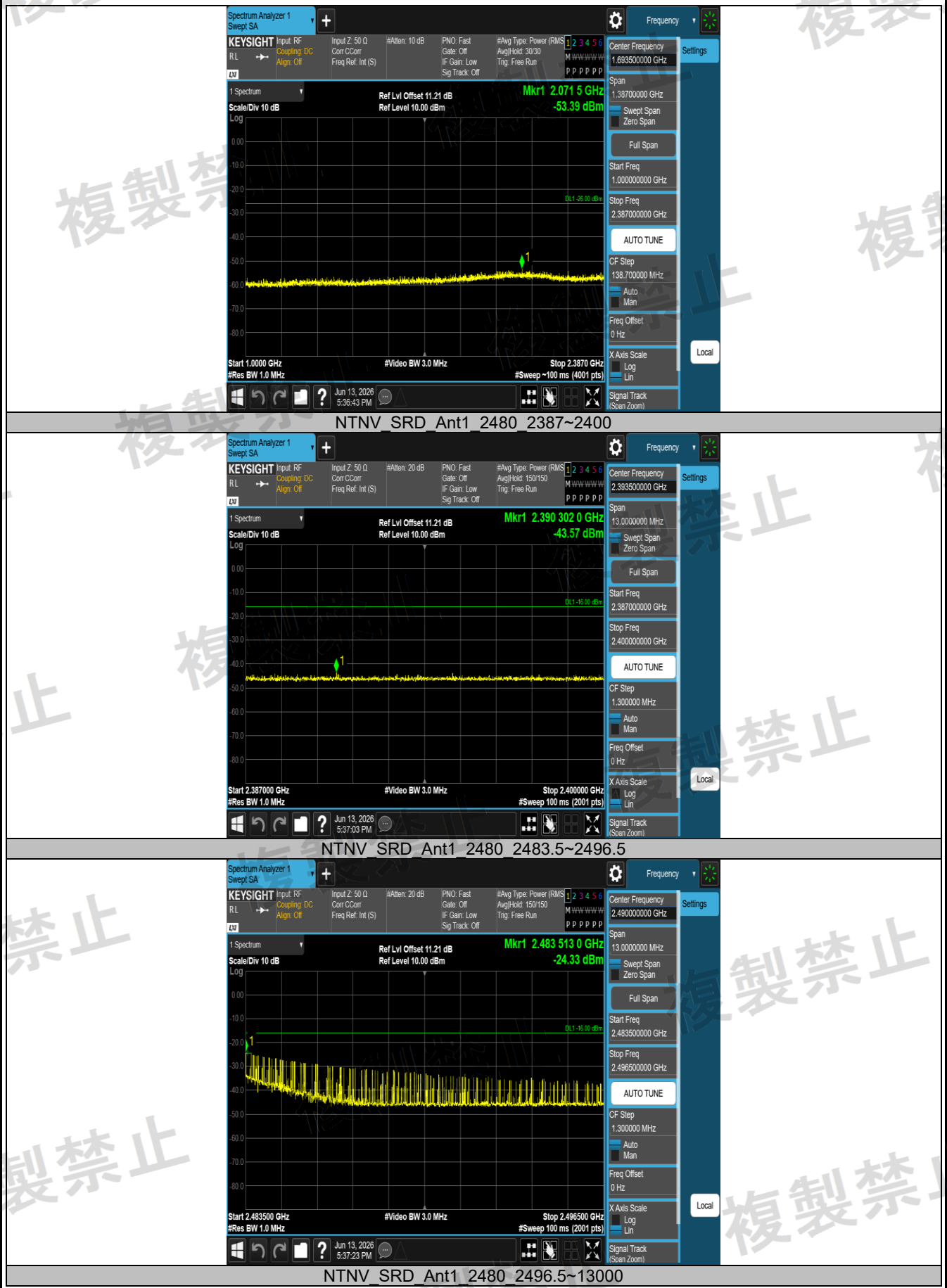


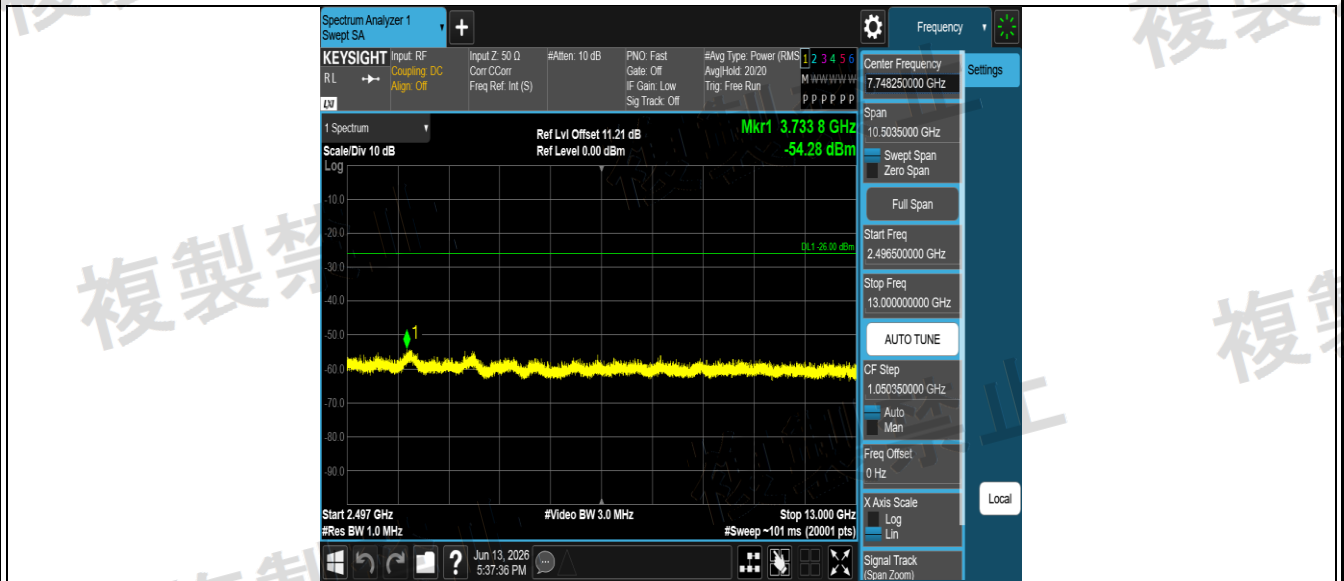




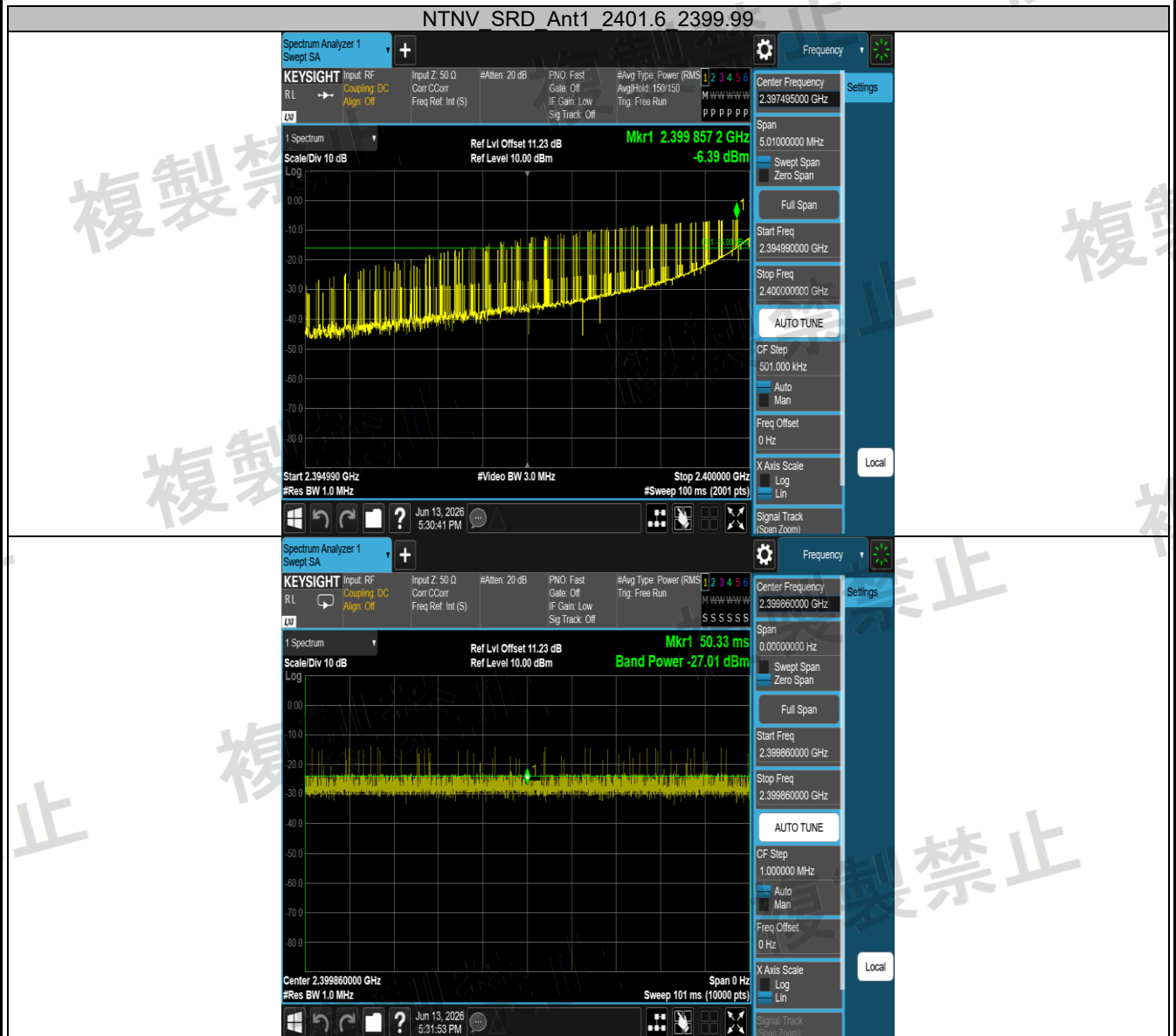






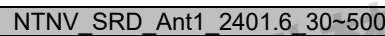


Test Graphs_Step2



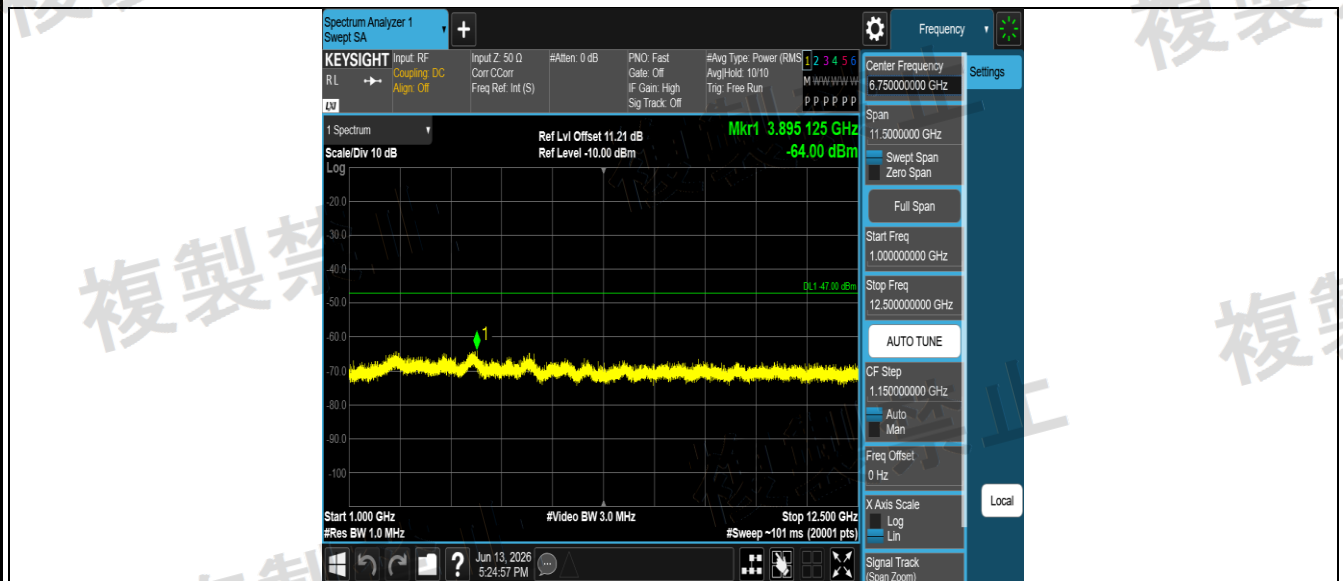
Appendix C.6: Test Results of Spurious Emissions for Receiver*Test Result*

Test Condition	Test Mode	Antenna	Freq (MHz)	Freq.Range [MHz]	Freq. [MHz]	Result [dBm]	Limit [dBm]	Result [nW]	Limit [nW]	Verdict
NTNV	SRD	Ant1	2401.6	30~500	175.00	-68.16	≤-54	0.15276	≤4	PASS
				500~1000	731.75	-75.38	≤-54	0.02897	≤4	PASS
				1000~12500	2106.88	-63.36	≤-47	0.46132	≤20	PASS
			2440	30~500	142.57	-68.09	≤-54	0.15524	≤4	PASS
				500~1000	731.75	-75.68	≤-54	0.02704	≤4	PASS
				1000~12500	3781.85	-64.05	≤-47	0.39355	≤20	PASS
			2480	30~500	201.79	-68.04	≤-54	0.15704	≤4	PASS
				500~1000	731.75	-76.20	≤-54	0.02399	≤4	PASS
				1000~12500	3895.13	-64.00	≤-47	0.39811	≤20	PASS









Appendix C.7: Test Results of Interference Prevention Function

Test Result

Temperature:	24.8°C	Humidity:	55%RH
MAC address:	FC23CD92619B	Test result:	Conform