

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	-35.39307	±50	PASS
			2440	-35.86066	±50	PASS
			2480	-38.30645	±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	9.46	8.831	≤10	PASS
			2440	9.51	8.933	≤10	PASS
			2480	9.78	9.506	≤10	PASS

Tolerance								
Test Condition	Test Mode	Antenna	Freq(MHz)	Power (mW)	RatedPower (mW)	Result (%)	Limit (%)	Verdict
NTNV	SRD	Ant1	2401.6	8.831	10	-11.69	+20	PASS
			2440	8.933	10	-10.67	+20	PASS
			2480	9.506	10	-4.94	+20	PASS

EIRP							
TestCondition	TestMode	Antenna	Freq(MHz)	Power (dBm)	EIRP(dBm)	Limit(dBm)	Verdict
NTNV	SRD	Ant1	2401.6	9.46	11.56	≤12.14	PASS
			2440	9.51	11.61	≤12.14	PASS
			2480	9.78	11.88	≤12.14	PASS

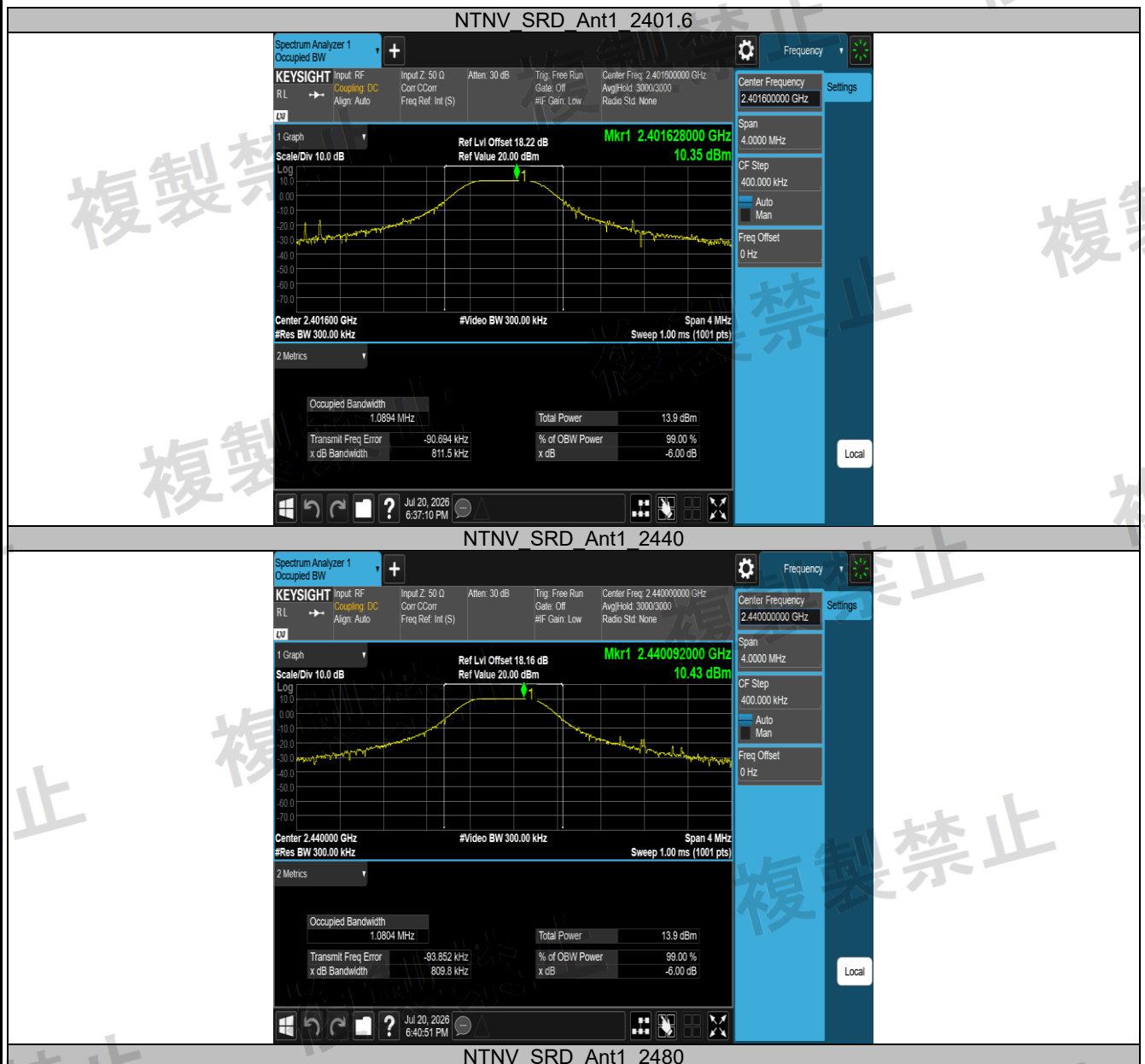
Antenna Gain is 2.1dBi

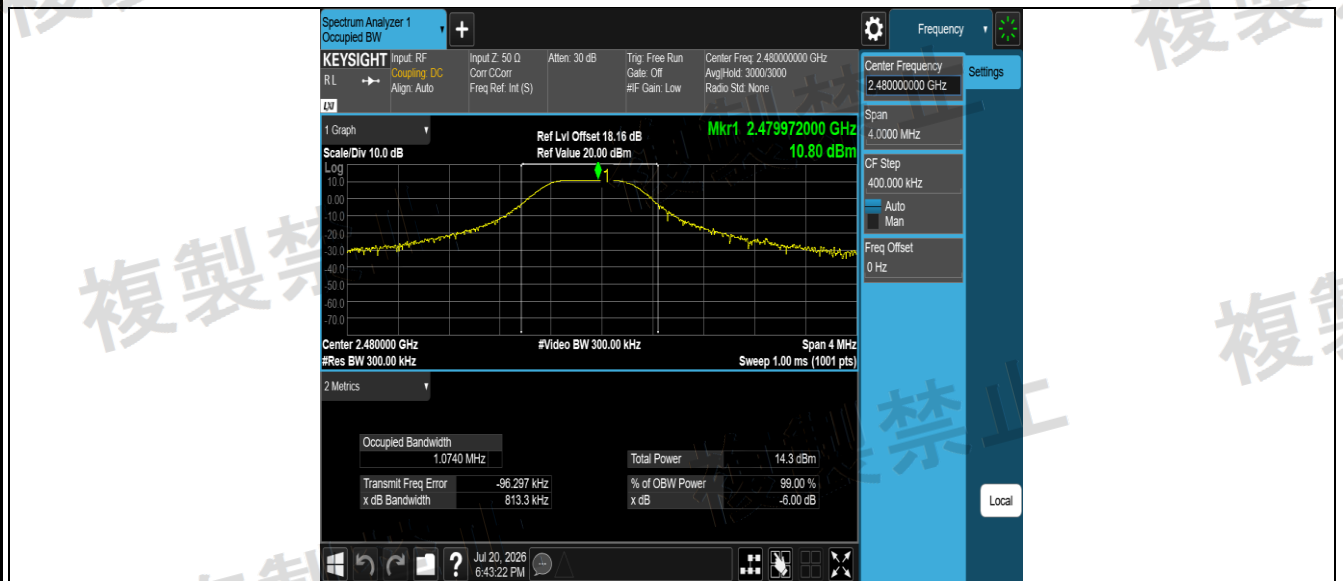
Appendix C.3: Test Results of Occupied Channel Bandwidth (99%)

Test Result

TestCondition	TestMode	Antenna	Freq(MHz)	Result [MHz]	Limit [MHz]	Verdict
NTNV	SRD	Ant1	2401.6	1.089	≤26	PASS
			2440	1.080	≤26	PASS
			2480	1.074	≤26	PASS

Test Graphs





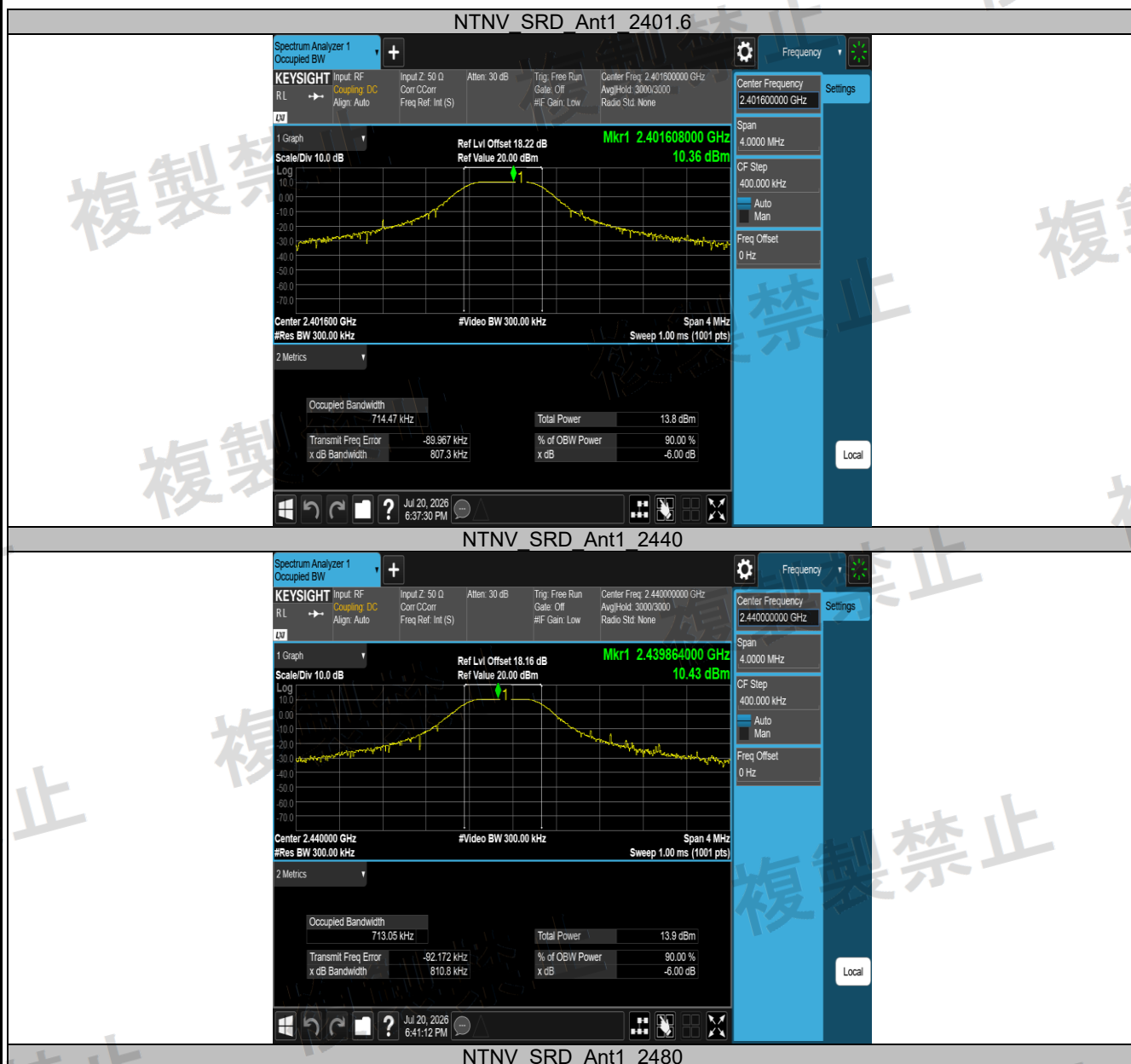
Appendix C.4: Test Results of Spread Bandwidth (90%)

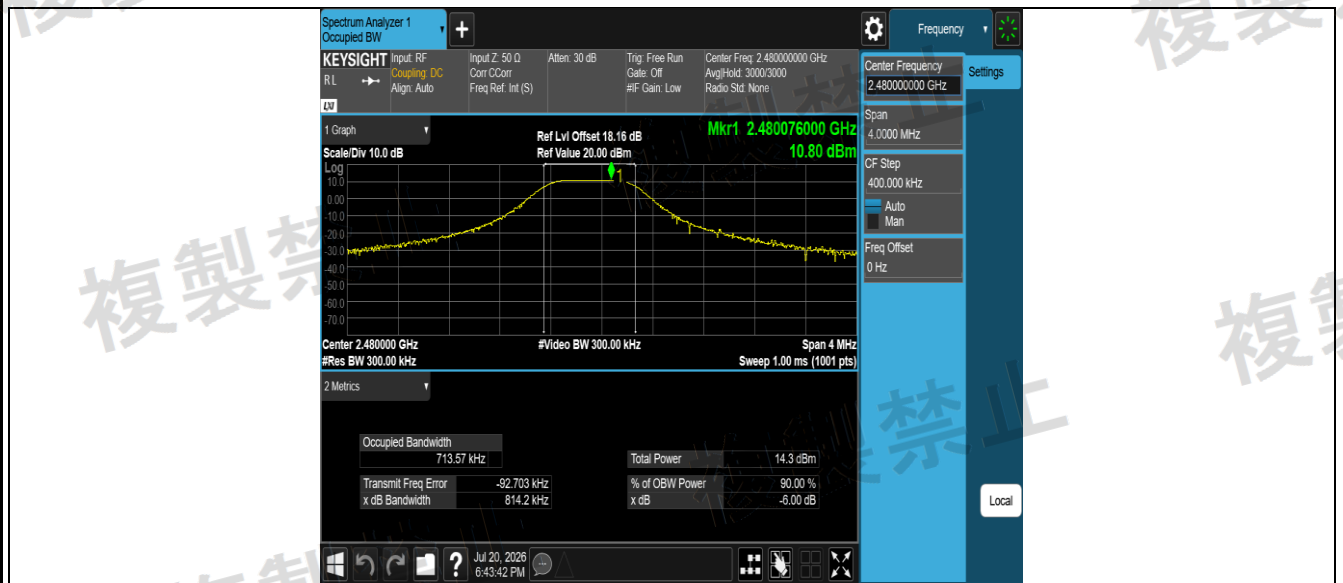
Test Result

TestCondition	TestMode	Antenna	Freq(MHz)	Result [MHz]	Limit [MHz]	Verdict
NTNV	SRD	Ant1	2401.6	0.714	≥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

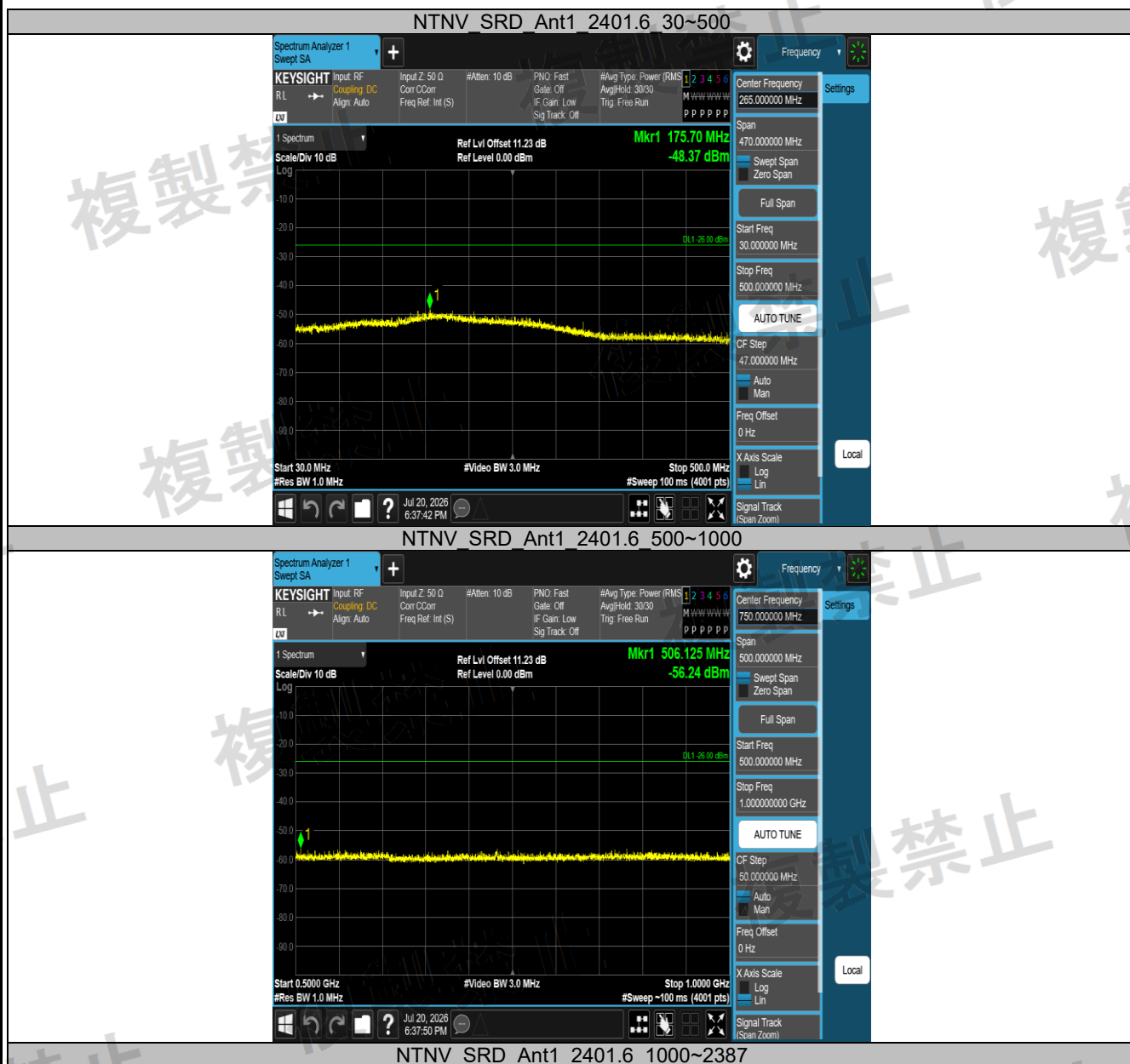
Test Condition	Test Mode	Antenna	Freq (MHz)	Freq.Range [MHz]	Freq. [MHz]	Result [dBm]	Limit [dBm]	Result [μW]	Limit [μW]	Verdict
NTNV	SRD	Ant1	2401.6	30~500	175.70	-48.37	≤-26	0.01455	≤2.5	PASS
				500~1000	506.13	-56.24	≤-26	0.00238	≤2.5	PASS
				1000~2387	2378.68	-42.73	≤-26	0.05333	≤2.5	PASS
				2387~2400	2399.92	-6.17	≤-16	241.54608	≤25	See table below
				2483.5~2496.5	2486.72	-54.17	≤-16	0.00383	≤25	PASS
				2496.5~13000	3839.37	-53.54	≤-26	0.00443	≤2.5	PASS
			2440	30~500	184.51	-48.62	≤-26	0.01374	≤2.5	PASS
				500~1000	906.13	-55.51	≤-26	0.00281	≤2.5	PASS
				1000~2387	2021.87	-52.94	≤-26	0.00508	≤2.5	PASS
				2387~2400	2396.09	-46.89	≤-16	0.02046	≤25	PASS
				2483.5~2496.5	2484.07	-46.20	≤-16	0.02399	≤25	PASS
				2496.5~13000	4879.74	-49.45	≤-26	0.01135	≤2.5	PASS
			2480	30~500	200.02	-48.54	≤-26	0.01400	≤2.5	PASS
				500~1000	584.38	-56.04	≤-26	0.00249	≤2.5	PASS
				1000~2387	2098.16	-53.55	≤-26	0.00442	≤2.5	PASS
				2387~2400	2399.20	-51.31	≤-16	0.00740	≤25	PASS
				2483.5~2496.5	2483.56	-25.44	≤-16	2.85759	≤25	PASS
				2496.5~13000	2505.43	-48.85	≤-26	0.01303	≤2.5	PASS

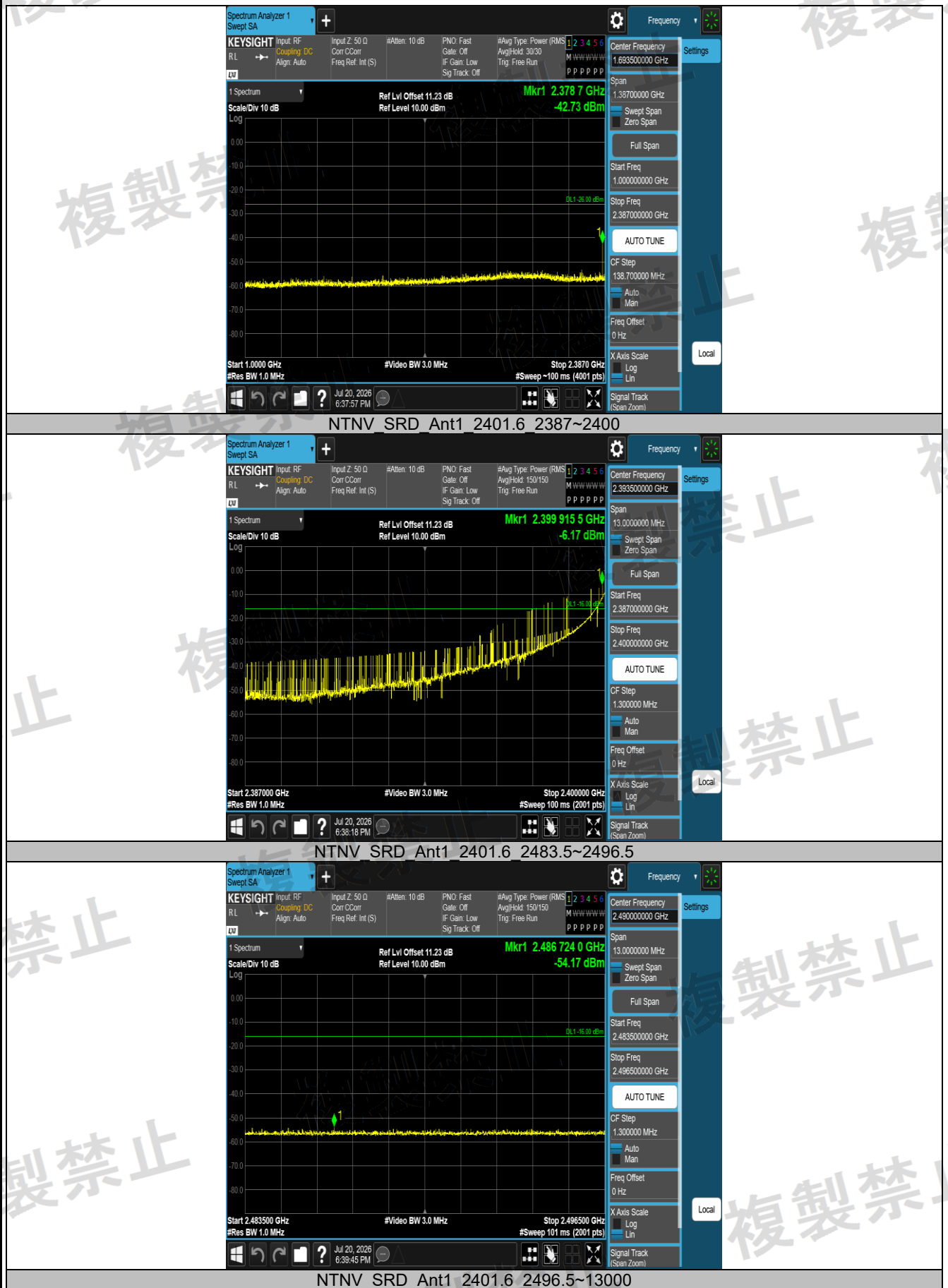
Test Result_Step2

Test Condition	Test Mode	Antenna	Freq (MHz)	Freq. [MHz]	Result [dBm]	Limit [dBm]	Result [μW]	Limit [μW]	Verdict
NTNV	SRD	Ant1	2401.6	2399.92	-20.47	≤-16	8.97429	≤25	PASS

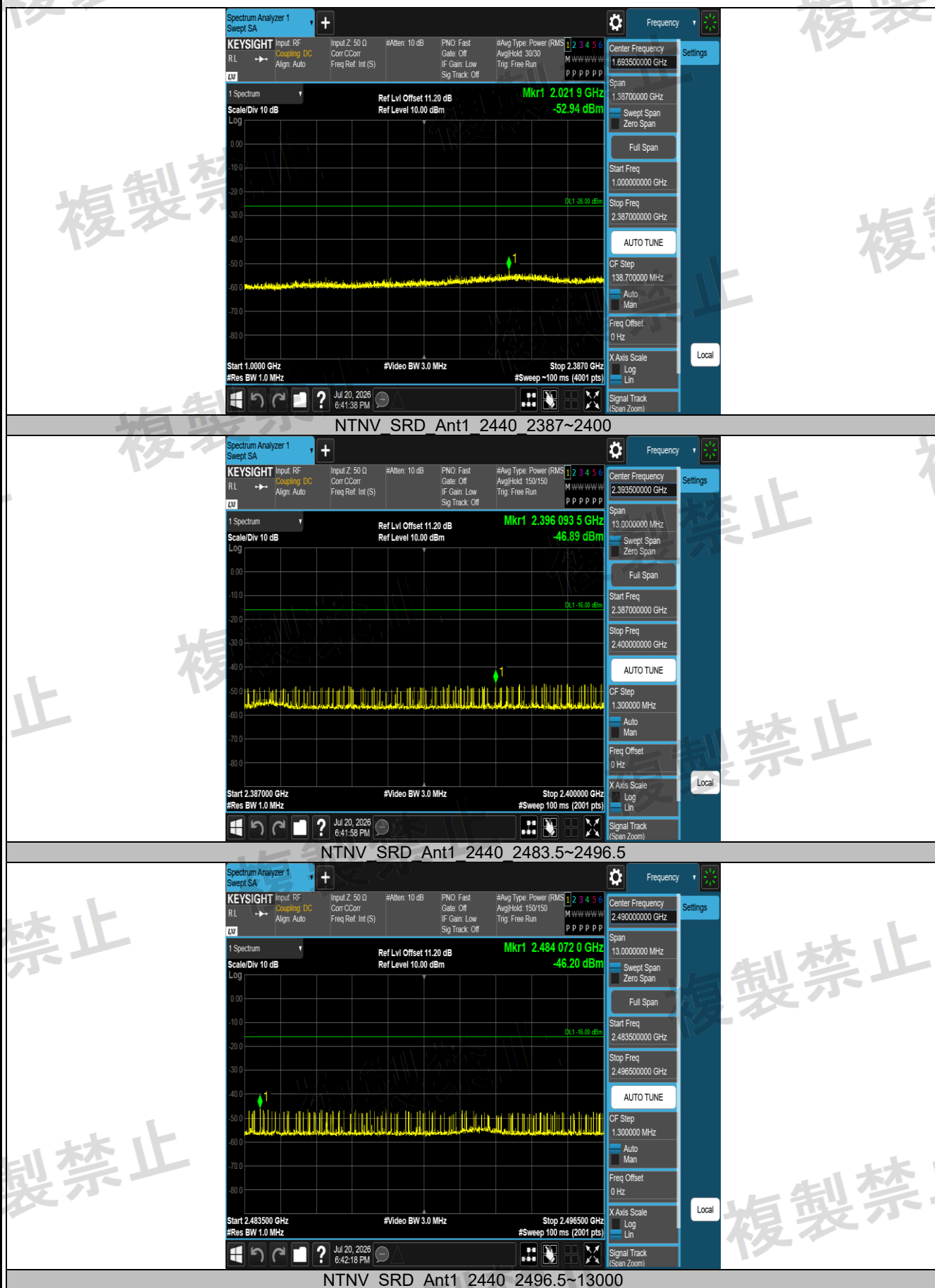


Test Graphs



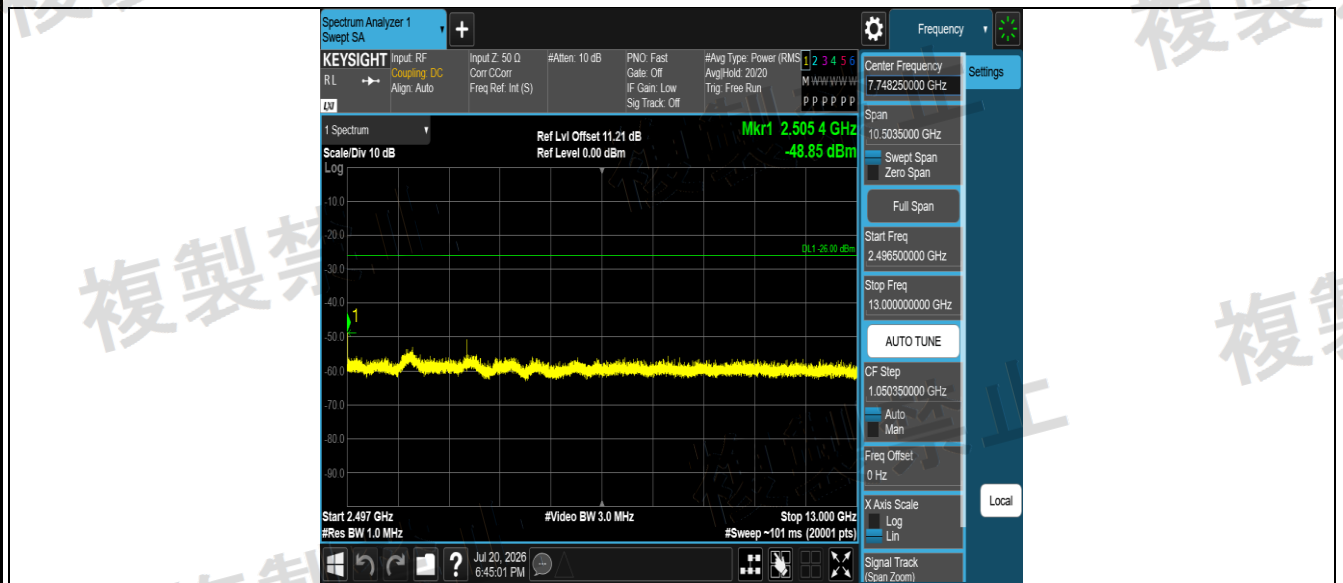






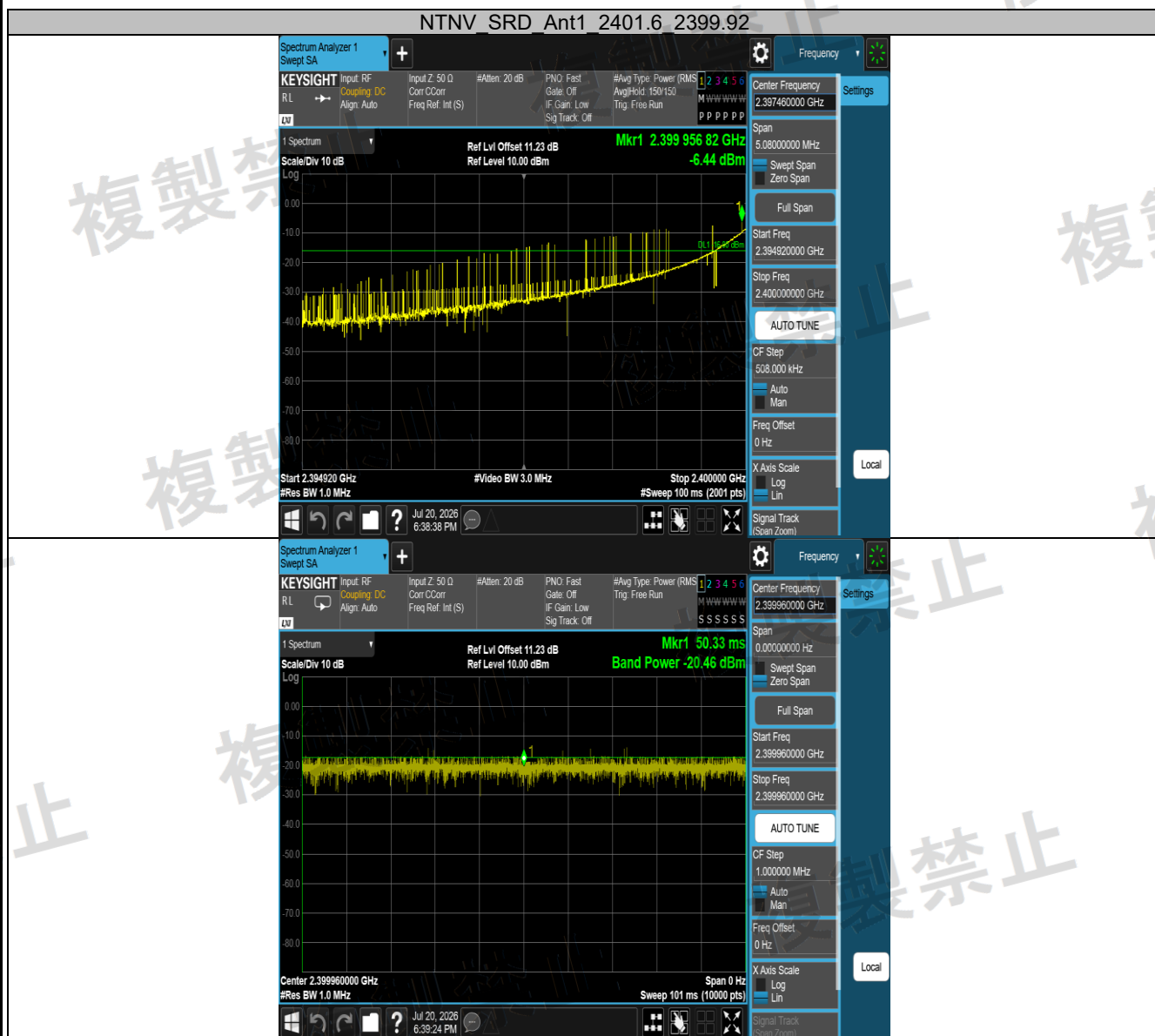








Test Graphs_Step2





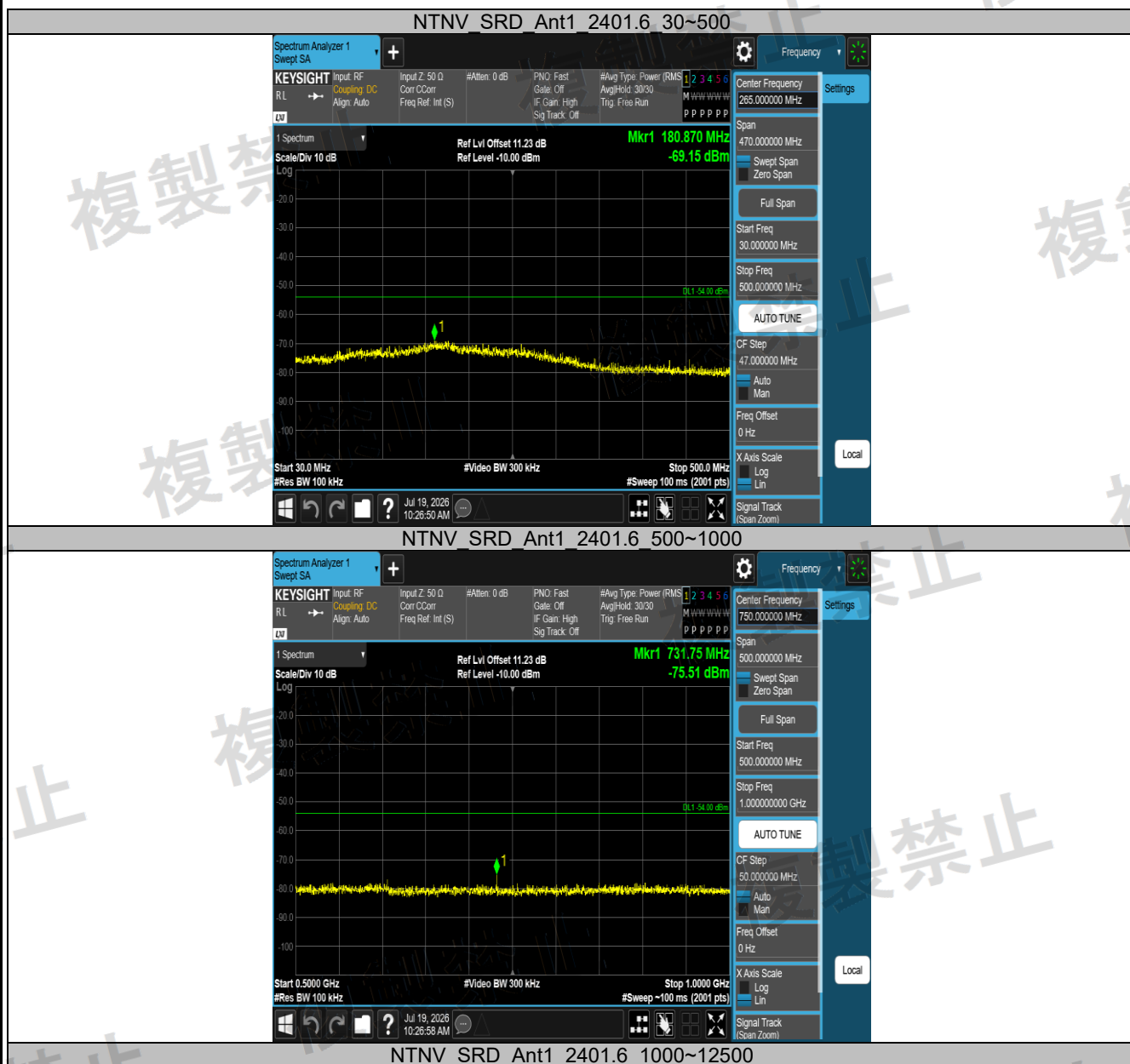
Appendix C.6: Test Results of Spurious Emissions for Receiver

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	180.87	-69.15	≤-54	0.12162	≤4	PASS
				500~1000	731.75	-75.51	≤-54	0.02812	≤4	PASS
				1000~12500	3811.75	-64.00	≤-47	0.39811	≤20	PASS
			2440	30~500	198.50	-68.63	≤-54	0.13709	≤4	PASS
				500~1000	731.75	-75.63	≤-54	0.02735	≤4	PASS
				1000~12500	3753.68	-63.44	≤-47	0.45290	≤20	PASS
			2480	30~500	184.87	-68.23	≤-54	0.15031	≤4	PASS
				500~1000	731.75	-75.72	≤-54	0.02679	≤4	PASS
				1000~12500	3760.00	-63.80	≤-47	0.41687	≤20	PASS

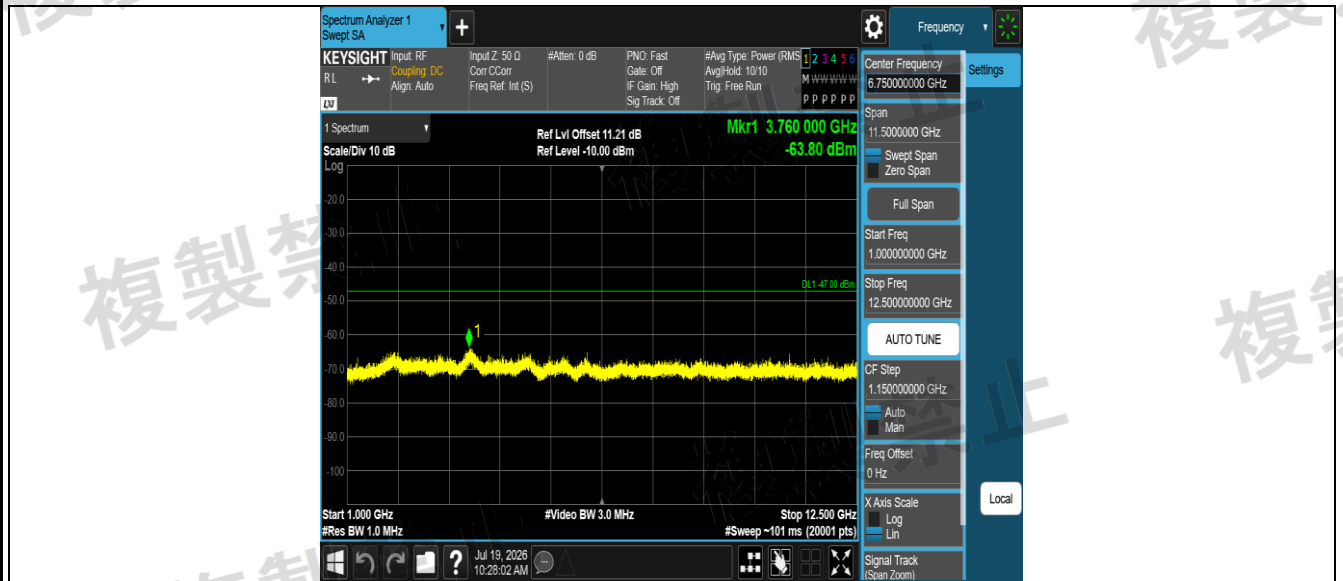


Test Graphs









Appendix C.7: Test Results of Interference Prevention Function

Test Result

Temperature:	24.8°C	Humidity:	55%RH
MAC address:	40A02F32C6D	Test result:	Conform