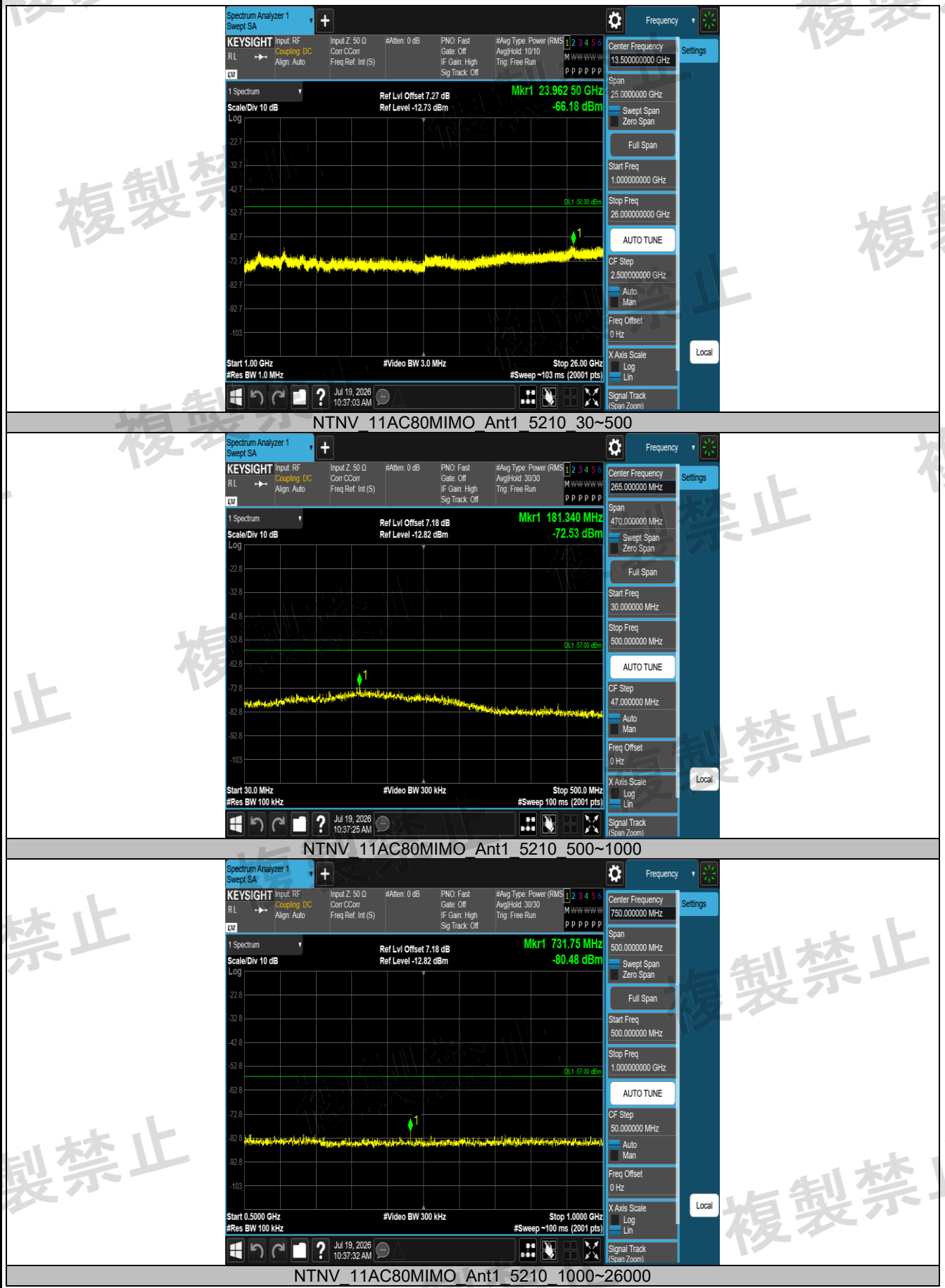
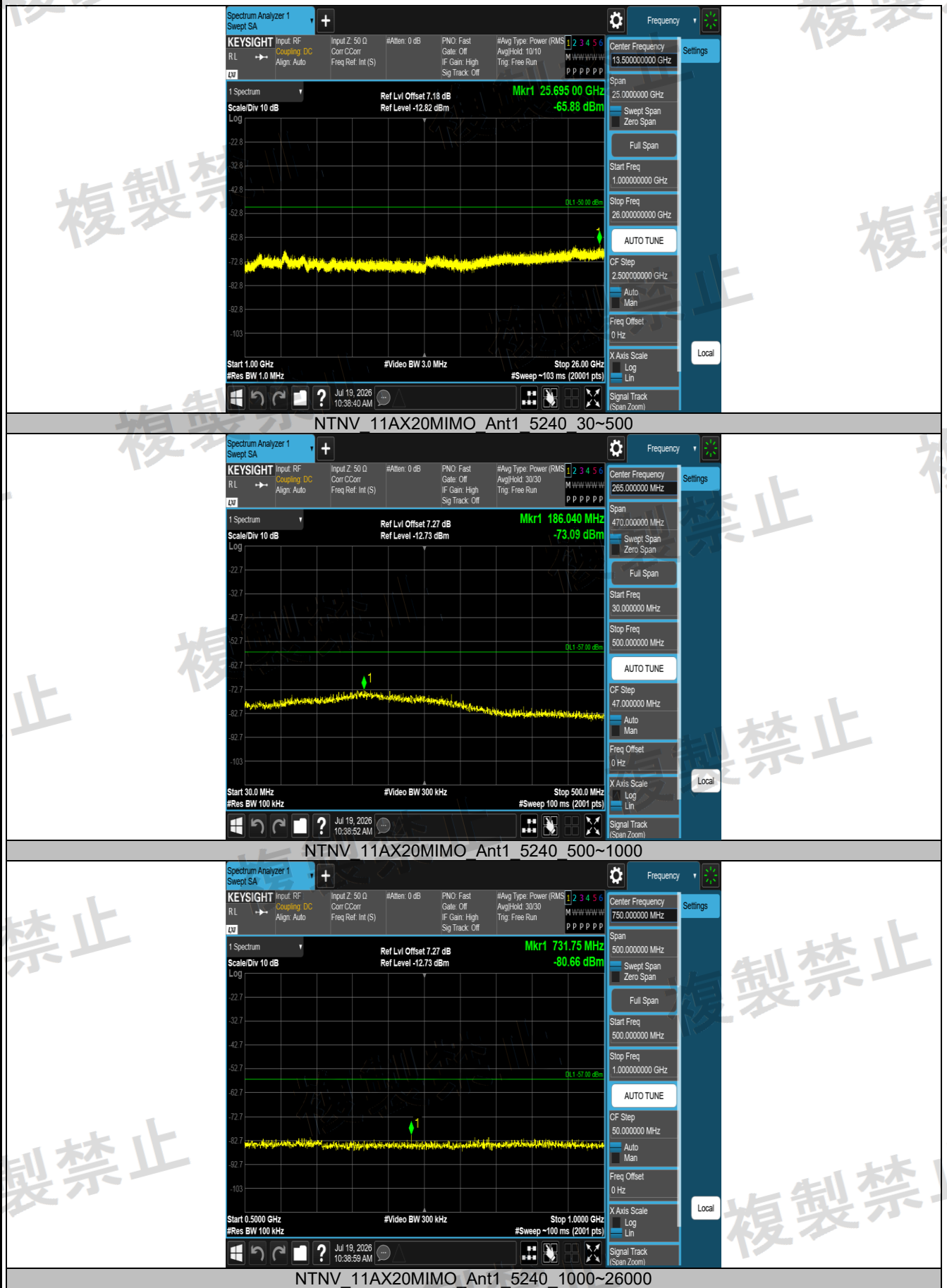
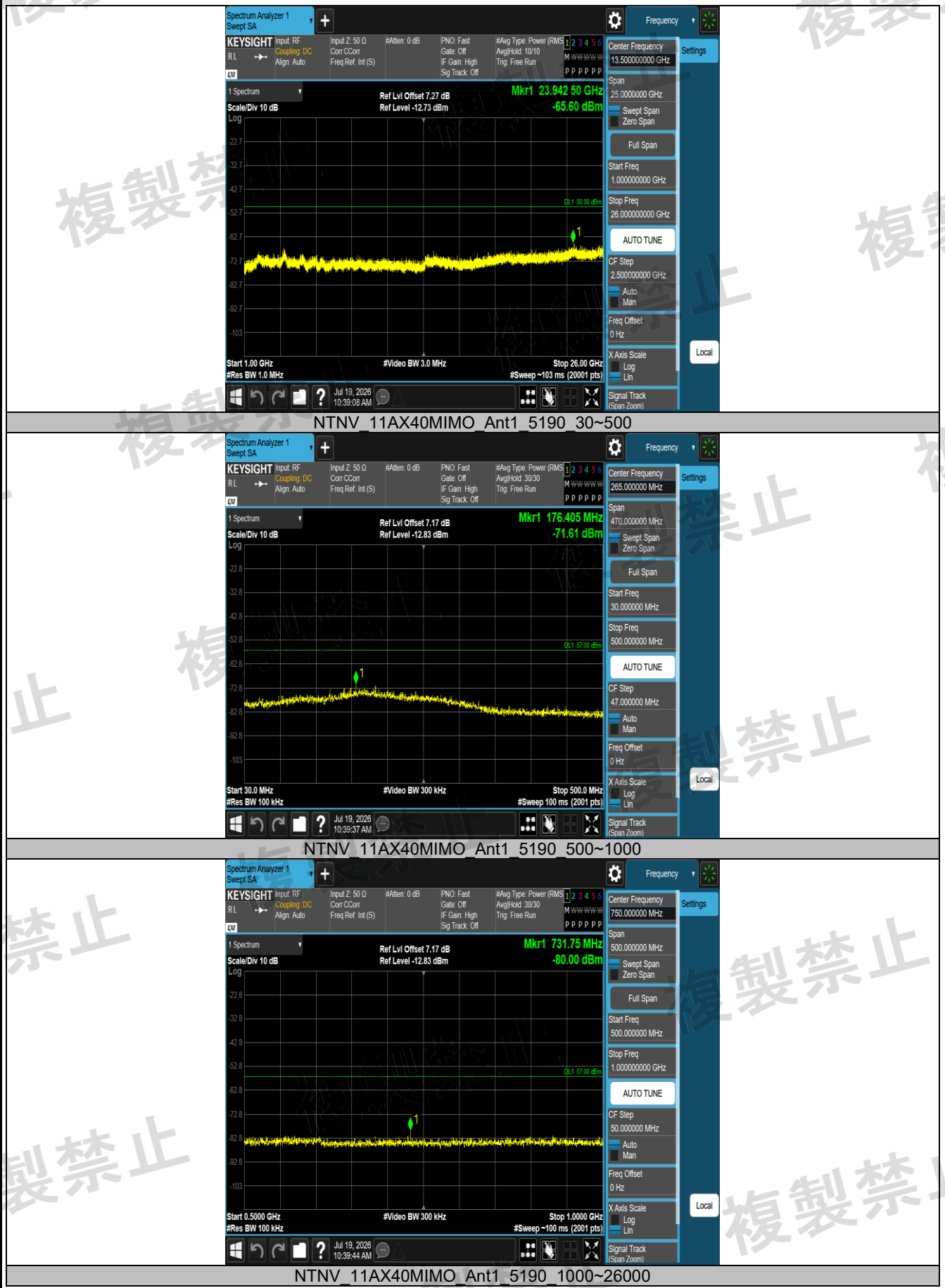


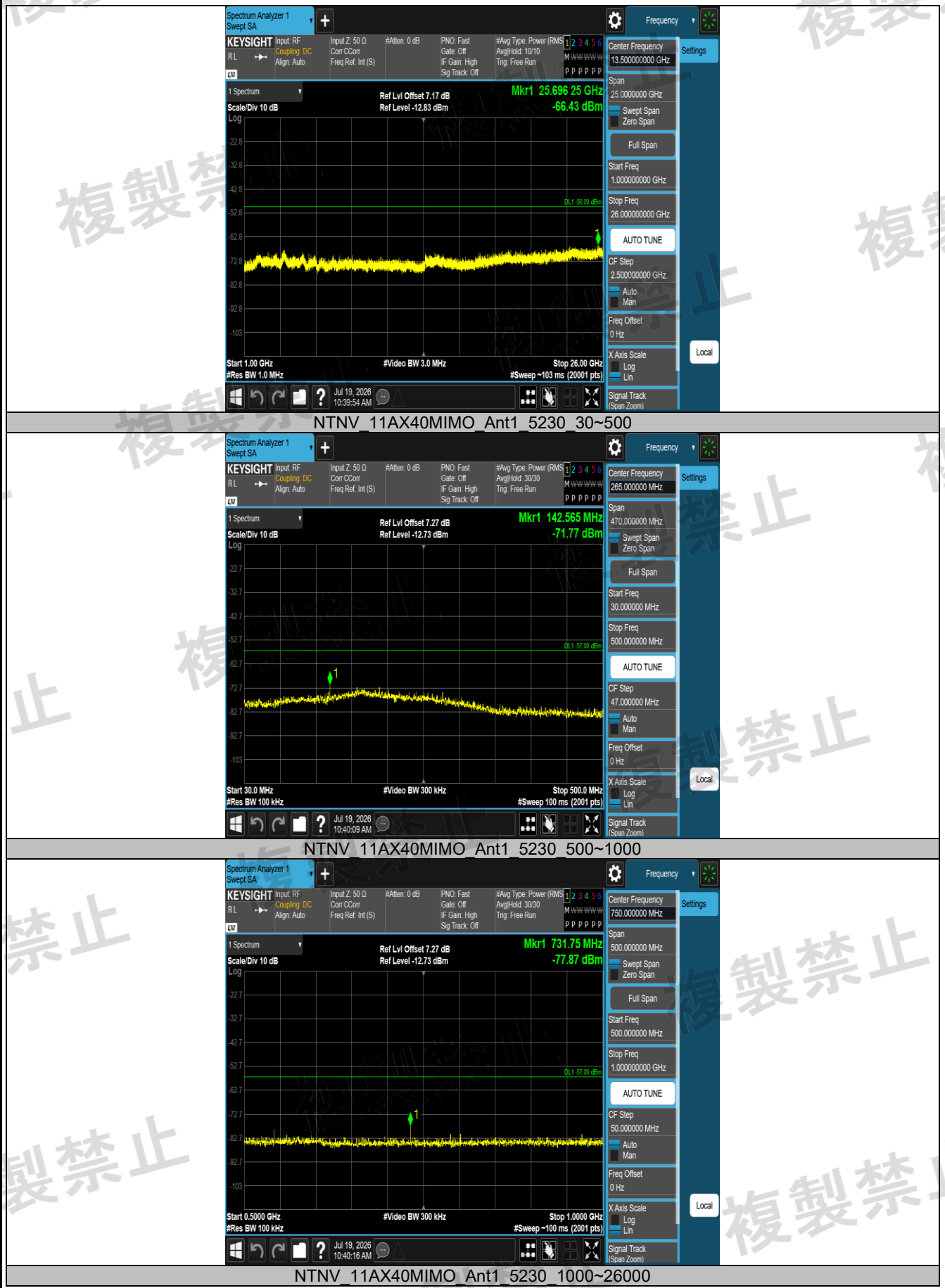




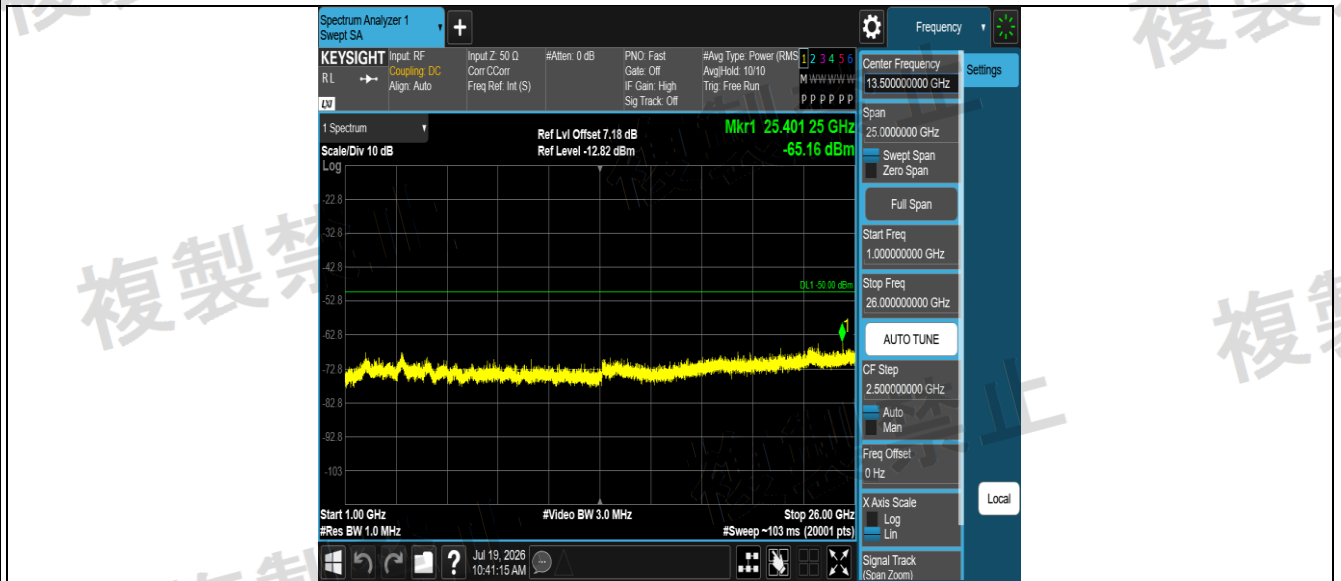












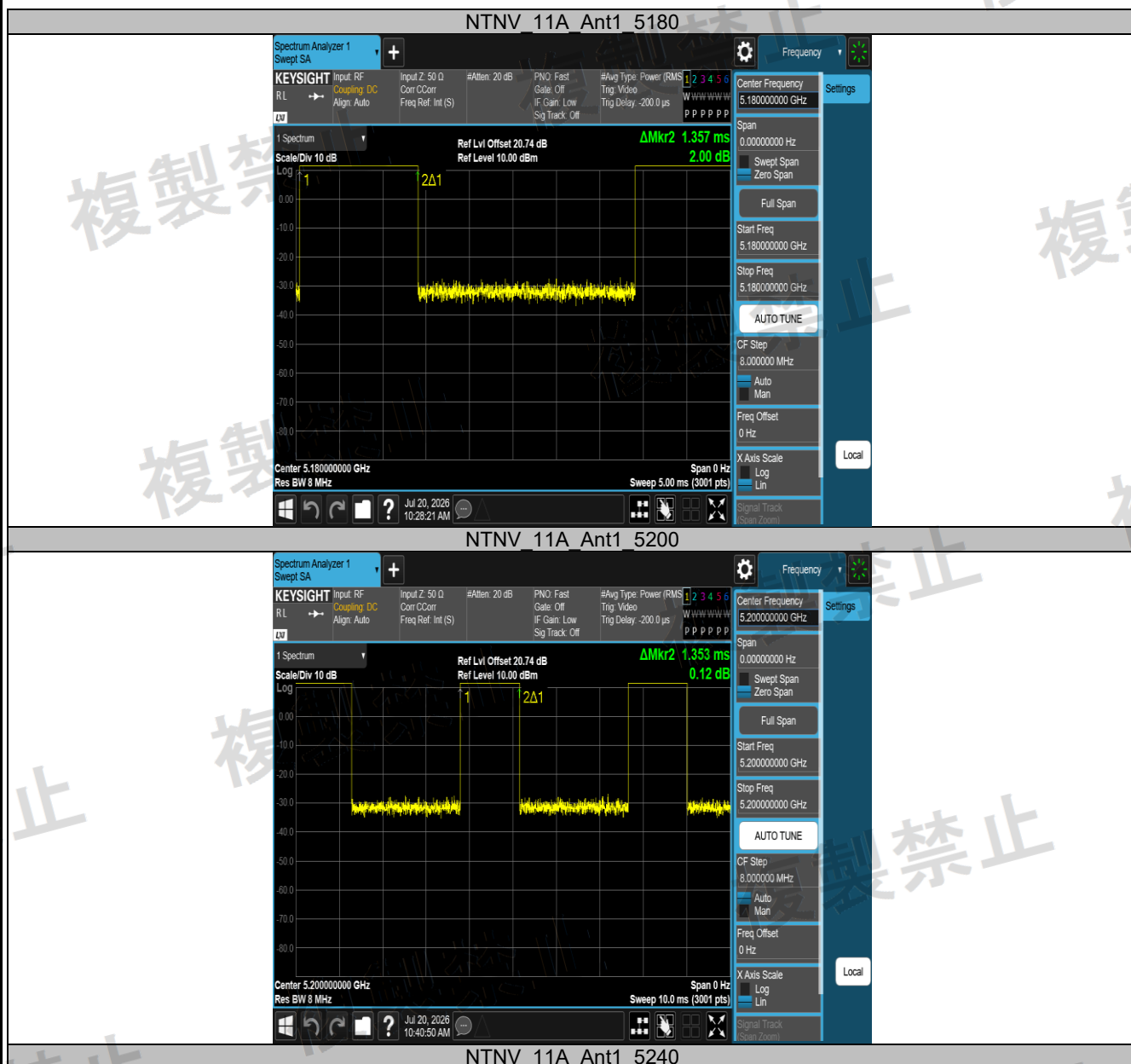


Appendix A.6: Test Results of Burst Length

Test Result

Test Condition	Test Mode	Antenna	Frequency[MHz]	Result [ms]	Limit [ms]	Verdict
NTNV	11A	Ant1	5180	1.36	≤8	PASS
			5200	1.35	≤8	PASS
			5240	1.36	≤8	PASS
	11N20MIMO	Ant1	5180	1.14	≤8	PASS
			5200	1.15	≤8	PASS
			5240	1.14	≤8	PASS
	11N40MIMO	Ant1	5190	0.57	≤8	PASS
			5230	0.57	≤8	PASS
			5180	1.15	≤8	PASS
	11AC20MIMO	Ant1	5200	1.14	≤8	PASS
			5240	1.15	≤8	PASS
			5190	0.57	≤8	PASS
	11AC40MIMO	Ant1	5230	0.57	≤8	PASS
			5210	0.28	≤8	PASS
			5180	0.99	≤8	PASS
	11AX20MIMO	Ant1	5200	0.99	≤8	PASS
			5240	0.99	≤8	PASS
			5190	0.52	≤8	PASS
	11AX40MIMO	Ant1	5230	0.52	≤8	PASS
			5210	0.28	≤8	PASS
			5180	0.99	≤8	PASS

Test Graphs









Appendix A

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Prüfbericht - Produkte
Test Report - Products







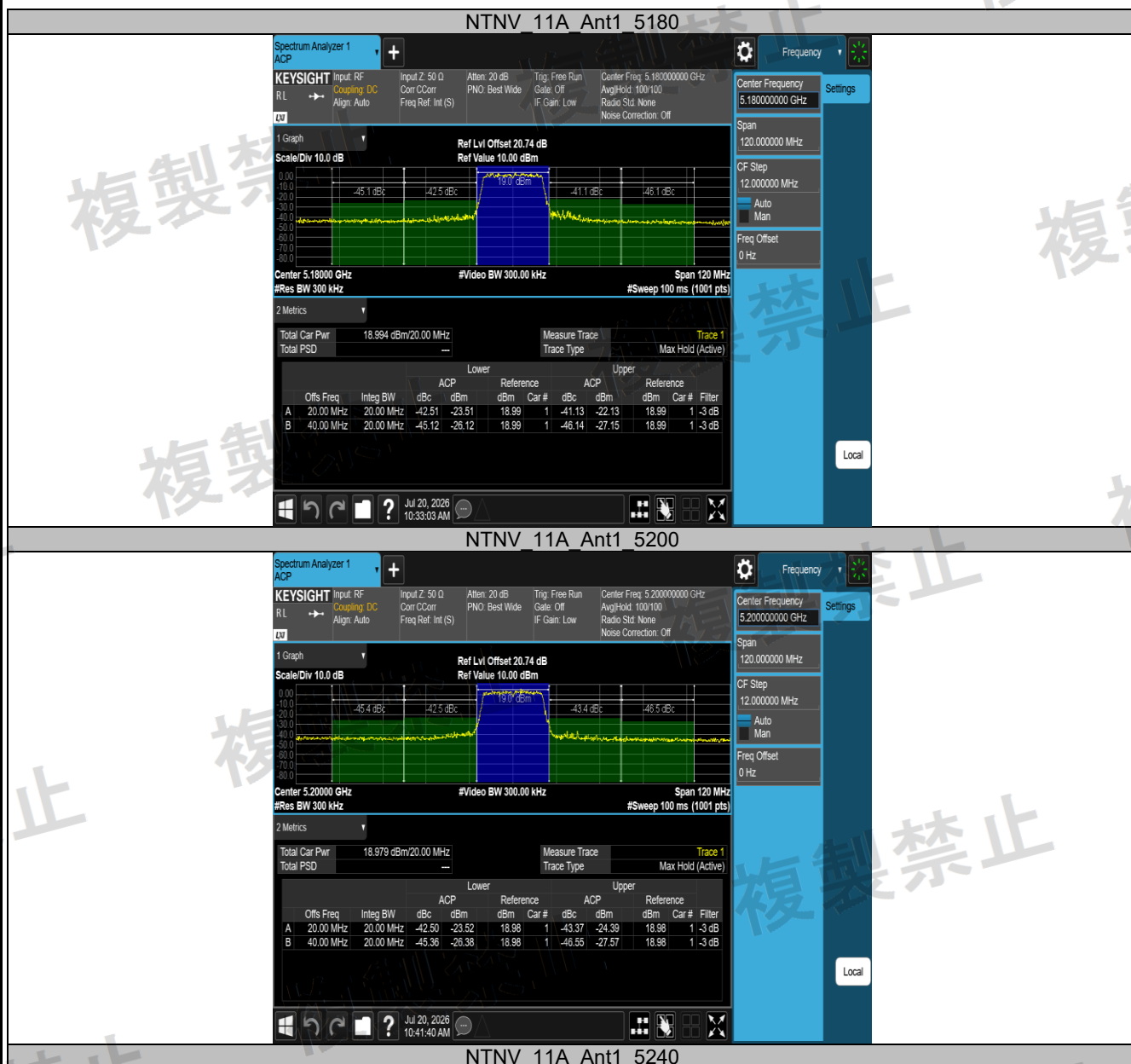
Appendix A.7: Test Results of Adjacent Channel Power

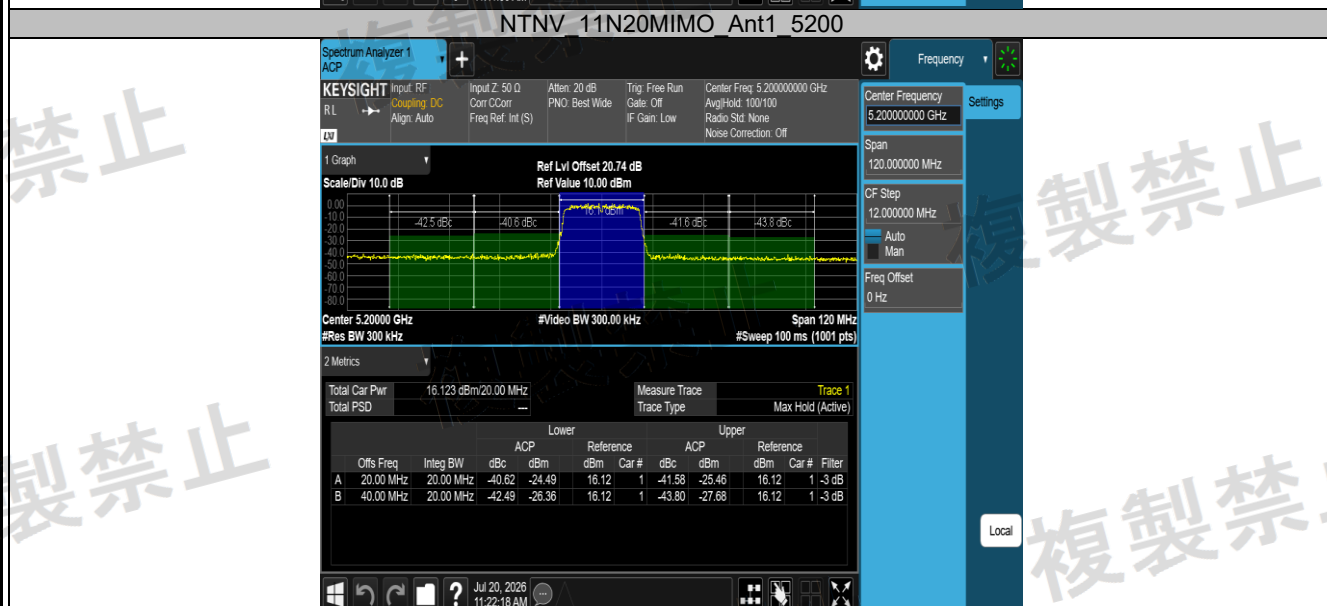
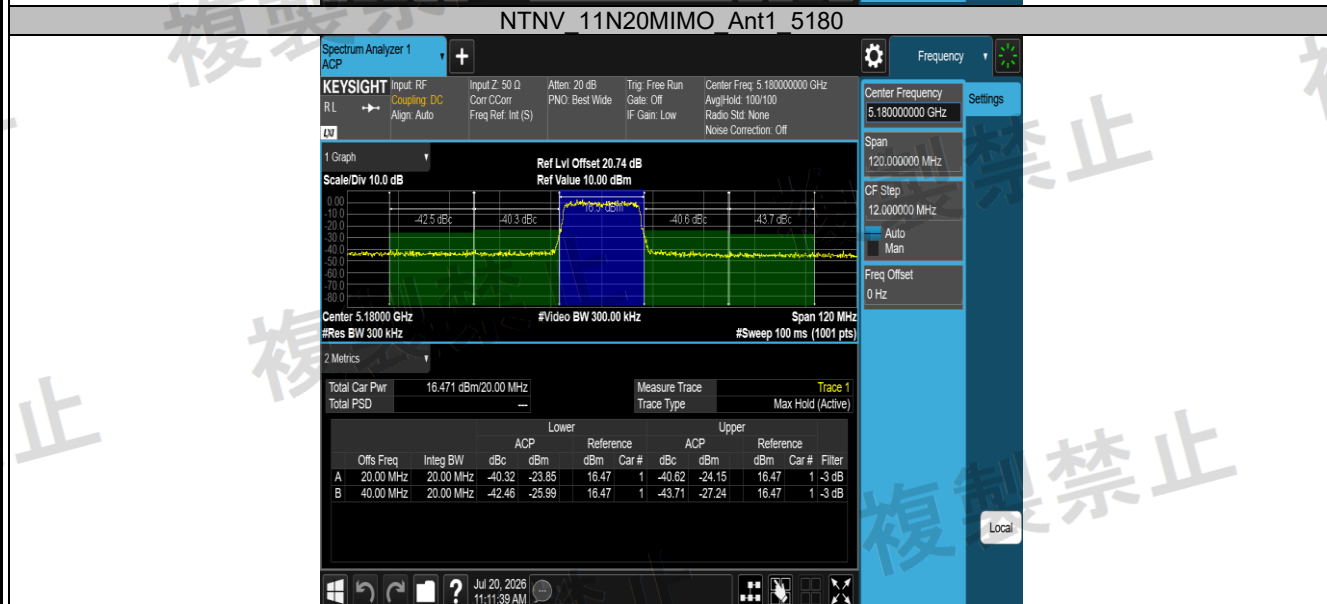
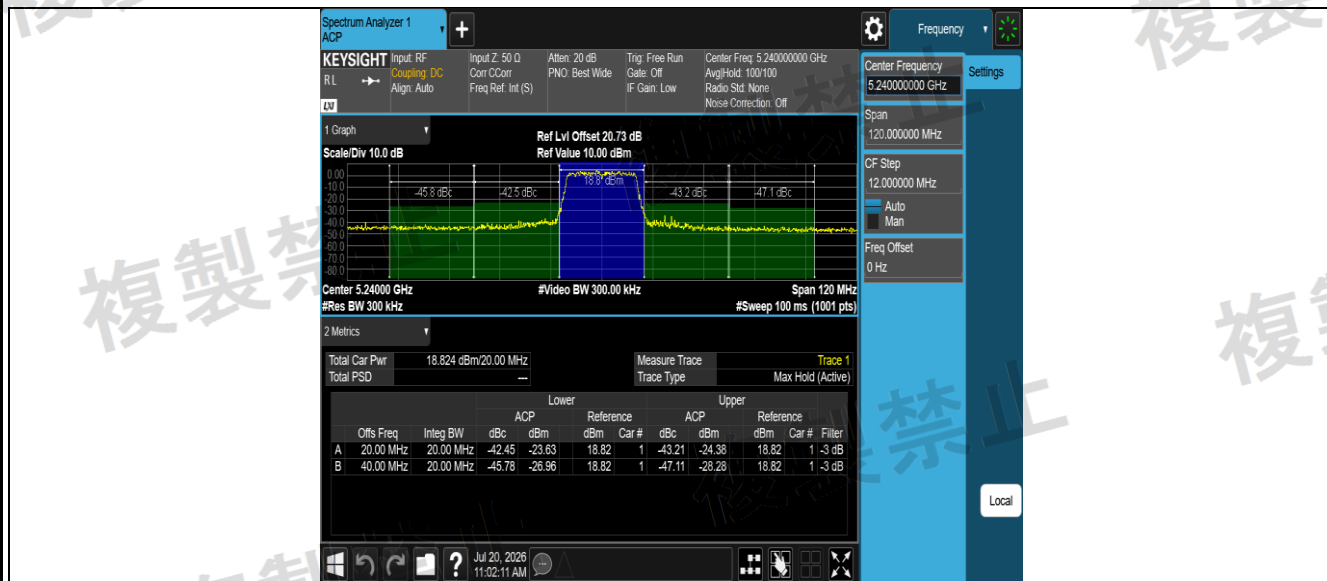
Test Result

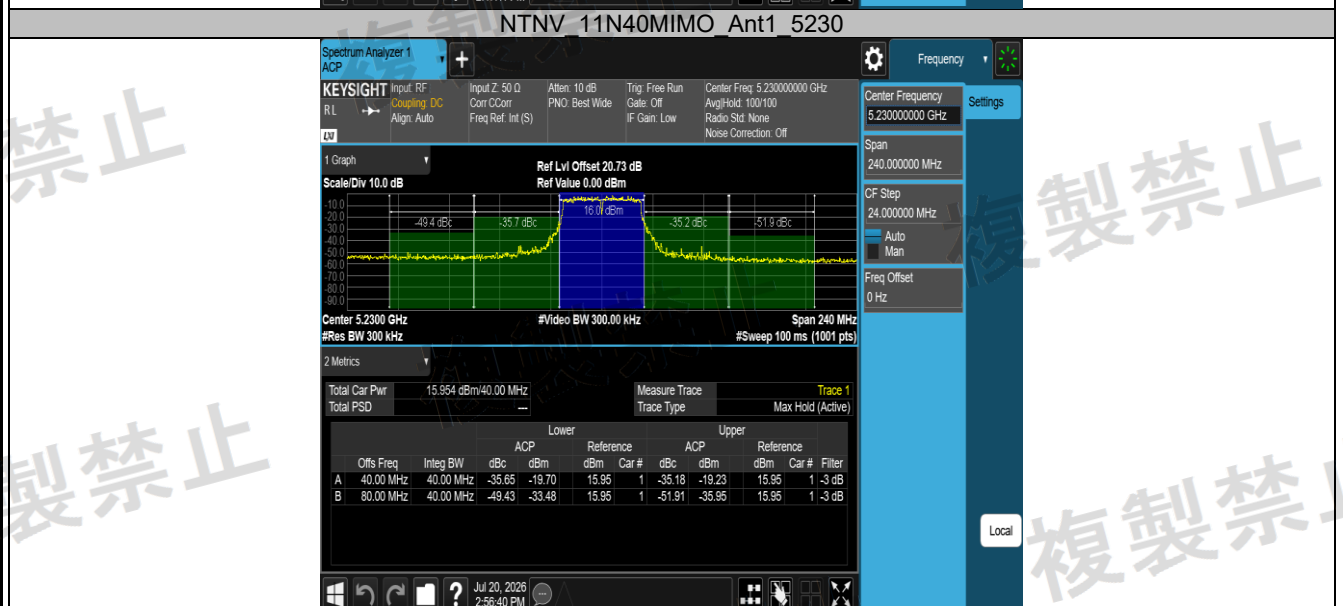
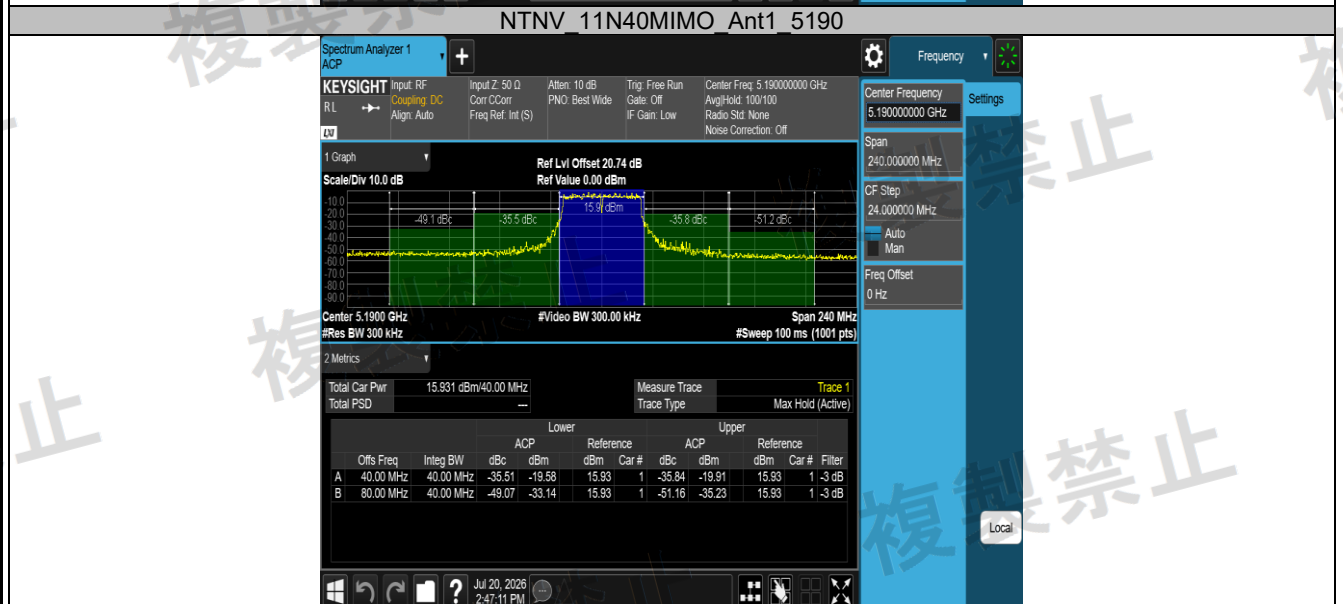
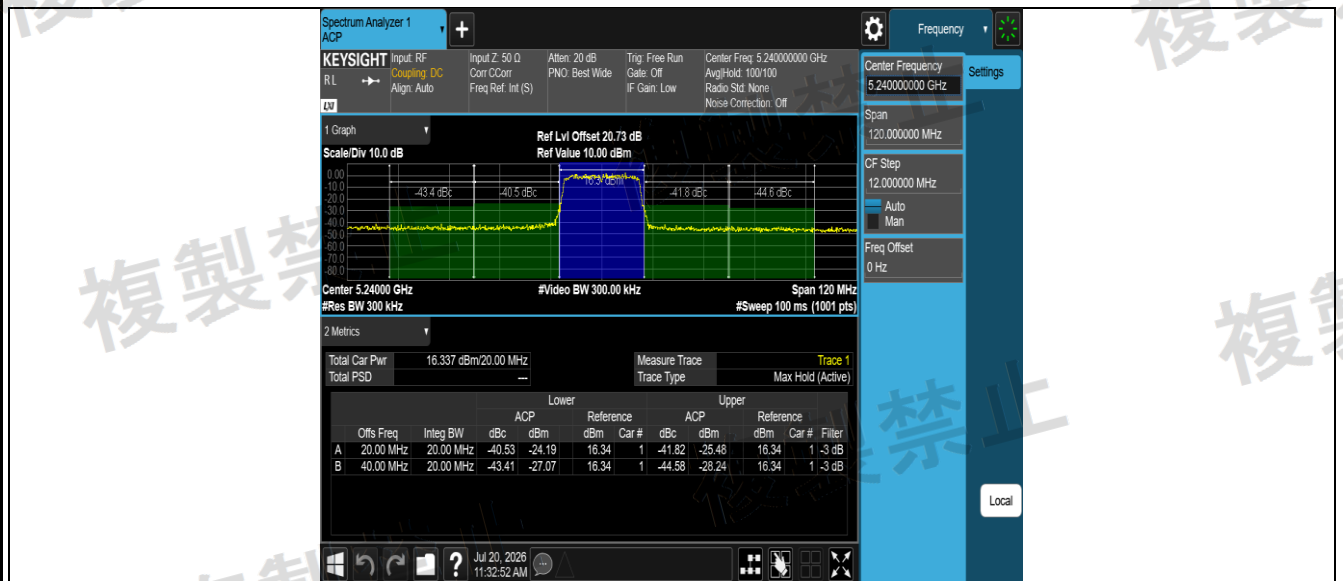
Test Condition	Test Mode	Antenna	Frequency [MHz]	Offset [MHz]	Result [dBc]	Limit [dBc]	Verdict
NTNV	11A	Ant1	5180	-40	-45.12	≤-40	PASS
				-20	-42.51	≤-25	PASS
				+20	-41.13	≤-25	PASS
				+40	-46.14	≤-40	PASS
			5200	-40	-45.36	≤-40	PASS
				-20	-42.50	≤-25	PASS
				+20	-43.37	≤-25	PASS
				+40	-46.55	≤-40	PASS
			5240	-40	-45.78	≤-40	PASS
				-20	-42.45	≤-25	PASS
				+20	-43.21	≤-25	PASS
				+40	-47.11	≤-40	PASS
	11N20MIMO	Ant1	5180	-40	-42.46	≤-40	PASS
				-20	-40.32	≤-25	PASS
				+20	-40.62	≤-25	PASS
				+40	-43.71	≤-40	PASS
			5200	-40	-42.49	≤-40	PASS
				-20	-40.62	≤-25	PASS
				+20	-41.58	≤-25	PASS
				+40	-43.80	≤-40	PASS
			5240	-40	-43.41	≤-40	PASS
				-20	-40.53	≤-25	PASS
				+20	-41.82	≤-25	PASS
				+40	-44.58	≤-40	PASS
	11N40MIMO	Ant1	5190	-80	-49.07	≤-40	PASS
				-40	-35.51	≤-25	PASS
				+40	-35.84	≤-25	PASS
				+80	-51.16	≤-40	PASS
			5230	-80	-49.43	≤-40	PASS
				-40	-35.65	≤-25	PASS
				+40	-35.18	≤-25	PASS
				+80	-51.91	≤-40	PASS
	11AC20MIMO	Ant1	5180	-40	-42.29	≤-40	PASS
				-20	-40.11	≤-25	PASS
				+20	-41.06	≤-25	PASS
				+40	-43.50	≤-40	PASS
			5200	-40	-43.19	≤-40	PASS
				-20	-30.64	≤-25	PASS
				+20	-30.09	≤-25	PASS
				+40	-44.55	≤-40	PASS
			5240	-40	-43.50	≤-40	PASS
				-20	-30.41	≤-25	PASS
				+20	-30.17	≤-25	PASS
				+40	-45.08	≤-40	PASS
	11AC40MIMO	Ant1	5190	-80	-49.47	≤-40	PASS
				-40	-36.29	≤-25	PASS
				+40	-35.82	≤-25	PASS
				+80	-51.54	≤-40	PASS
			5230	-80	-49.53	≤-40	PASS
				-40	-35.05	≤-25	PASS
				+40	-35.66	≤-25	PASS
				+80	-51.92	≤-40	PASS
	11AC80MIMO	Ant1	5210	-80	-37.81	≤-25	PASS
	11AX20MIMO	Ant1	5180	+80	-36.43	≤-25	PASS
				-40	-43.30	≤-40	PASS
				-20	-32.43	≤-25	PASS
				+20	-31.06	≤-25	PASS

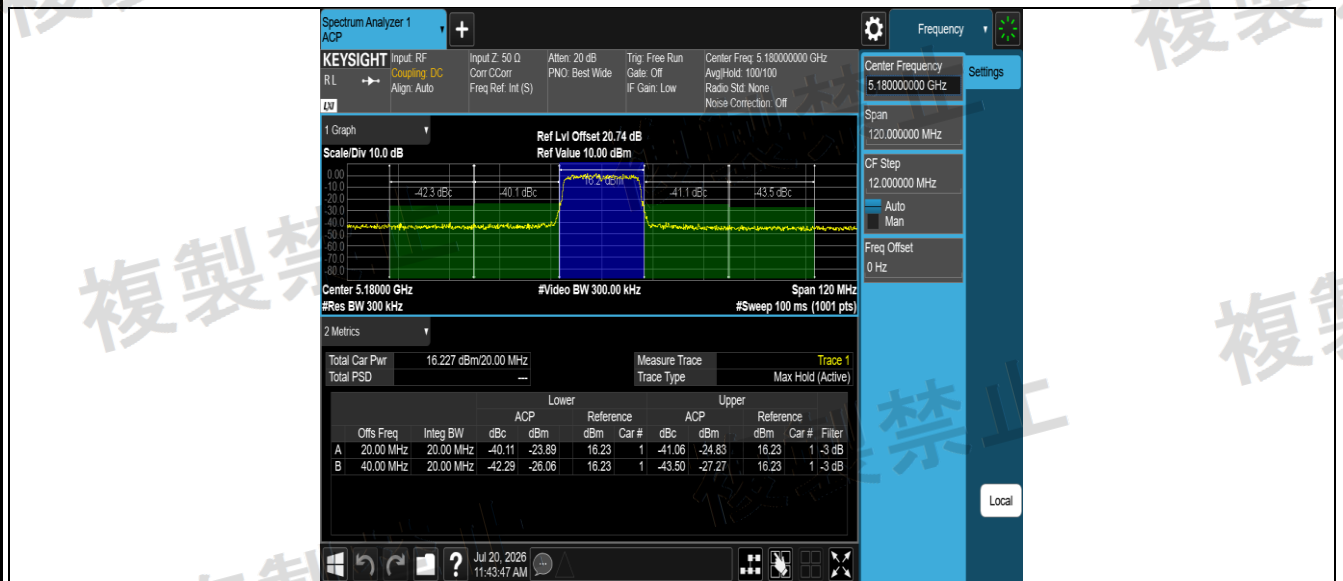
			5200	+40	-44.60	≤-40	PASS
				-40	-43.49	≤-40	PASS
				-20	-31.36	≤-25	PASS
				+20	-29.91	≤-25	PASS
			5240	+40	-44.92	≤-40	PASS
				-40	-40.22	≤-40	PASS
				-20	-30.32	≤-25	PASS
				+20	-30.14	≤-25	PASS
	11AX40MIMO	Ant1	5190	+40	-41.68	≤-40	PASS
				-80	-49.85	≤-40	PASS
				-40	-36.12	≤-25	PASS
				+40	-36.71	≤-25	PASS
			5230	+80	-52.11	≤-40	PASS
				-80	-50.27	≤-40	PASS
				-40	-35.79	≤-25	PASS
				+40	-37.98	≤-25	PASS
	11AX80MIMO	Ant1	5210	+80	-52.46	≤-40	PASS
				-80	-39.58	≤-25	PASS
				+80	-37.84	≤-25	PASS

Test Graphs

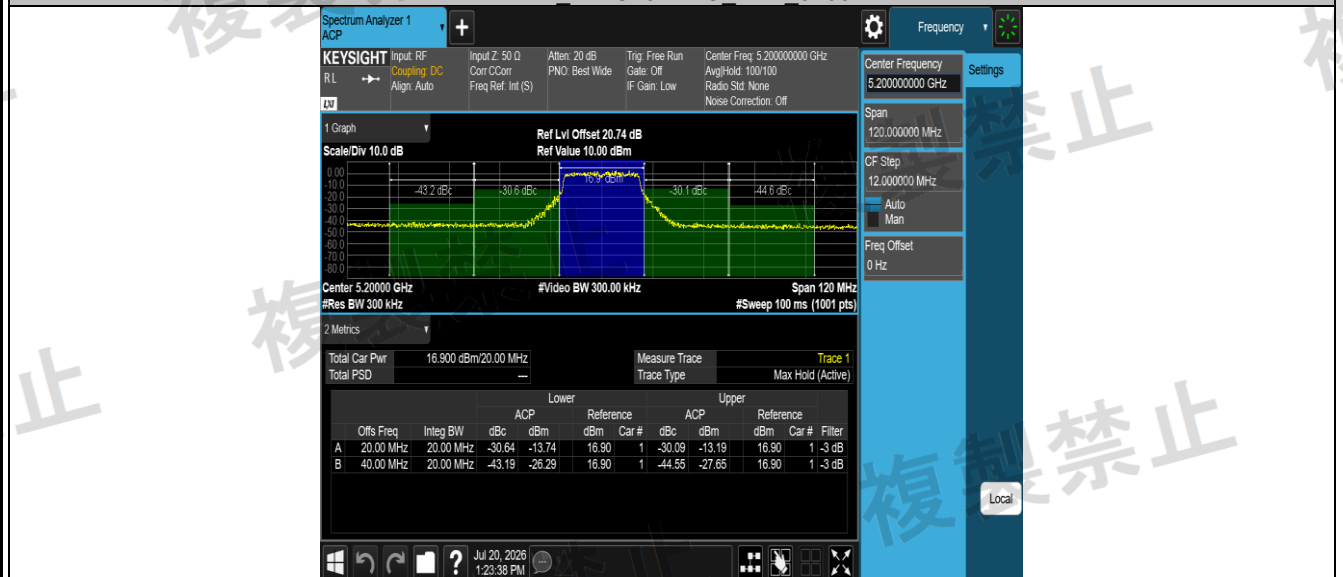




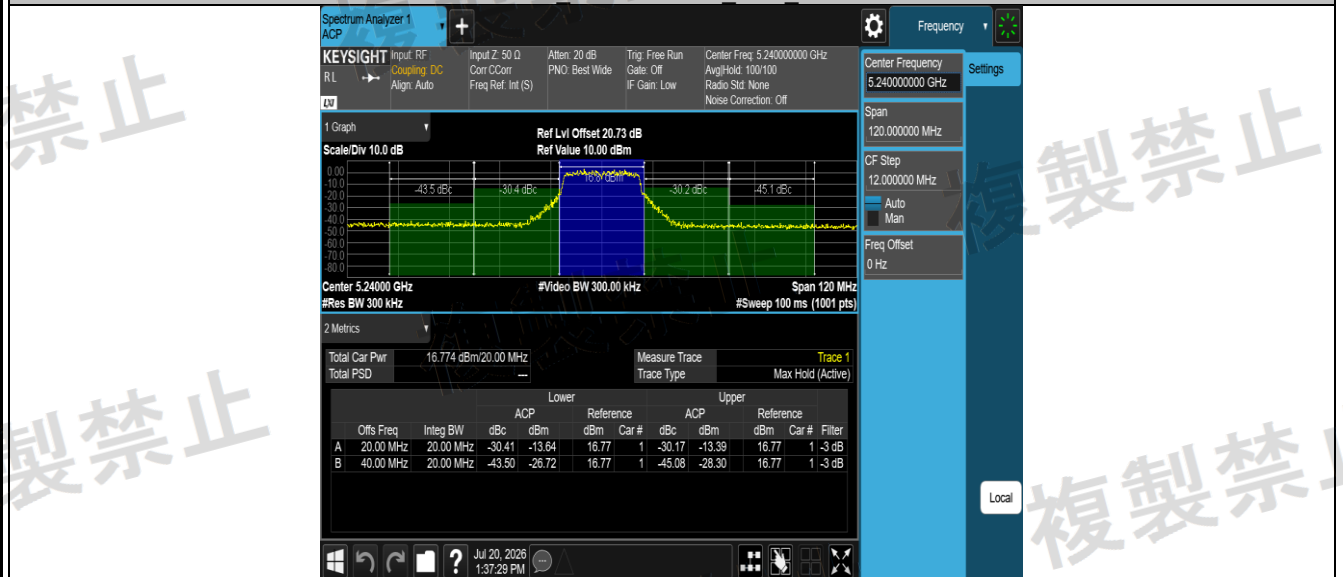




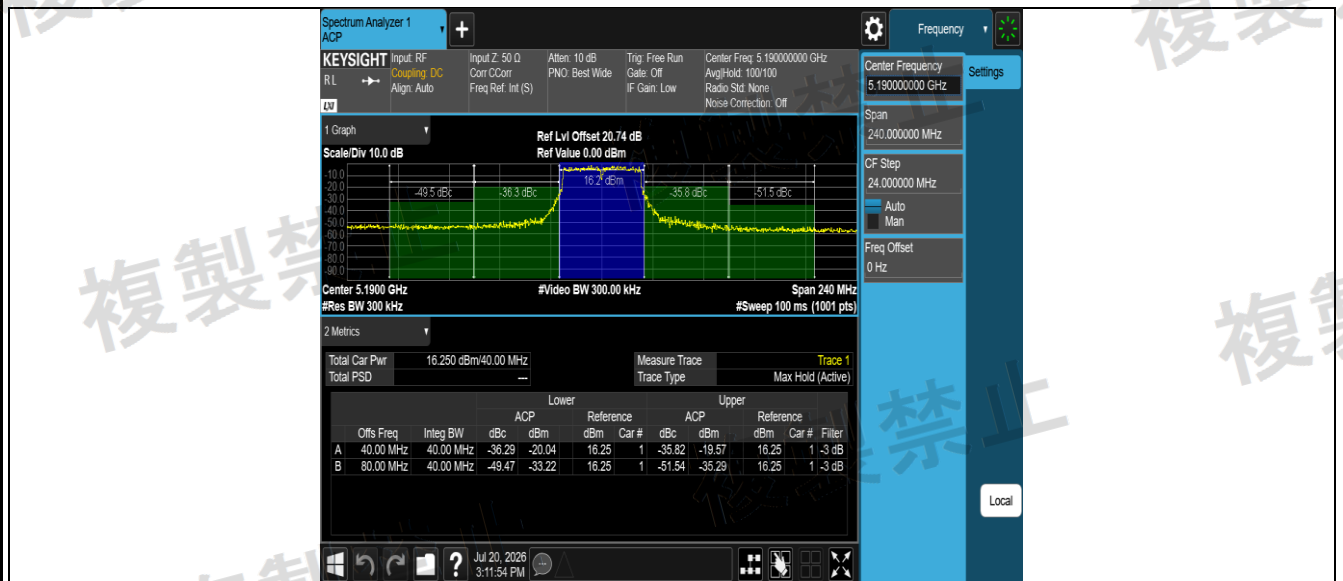
NTNV_11AC20MIMO Ant1 5200



NTNV_11AC20MIMO Ant1 5240



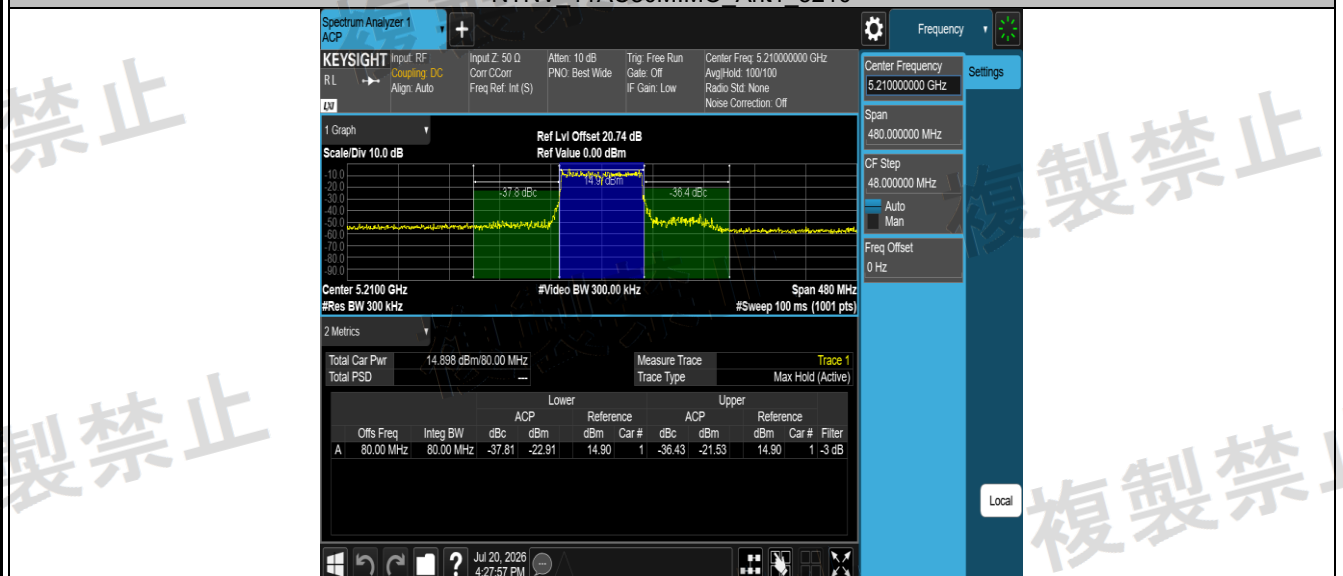
NTNV_11AC40MIMO Ant1 5190



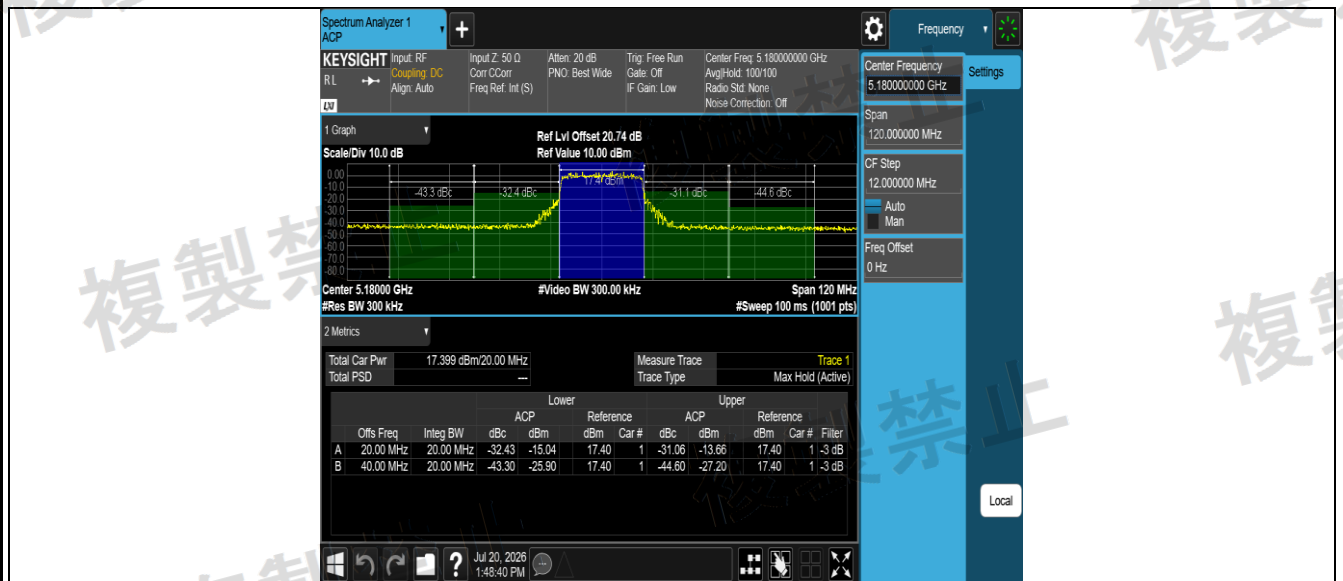
NTNV_11AC40MIMO Ant1 5230



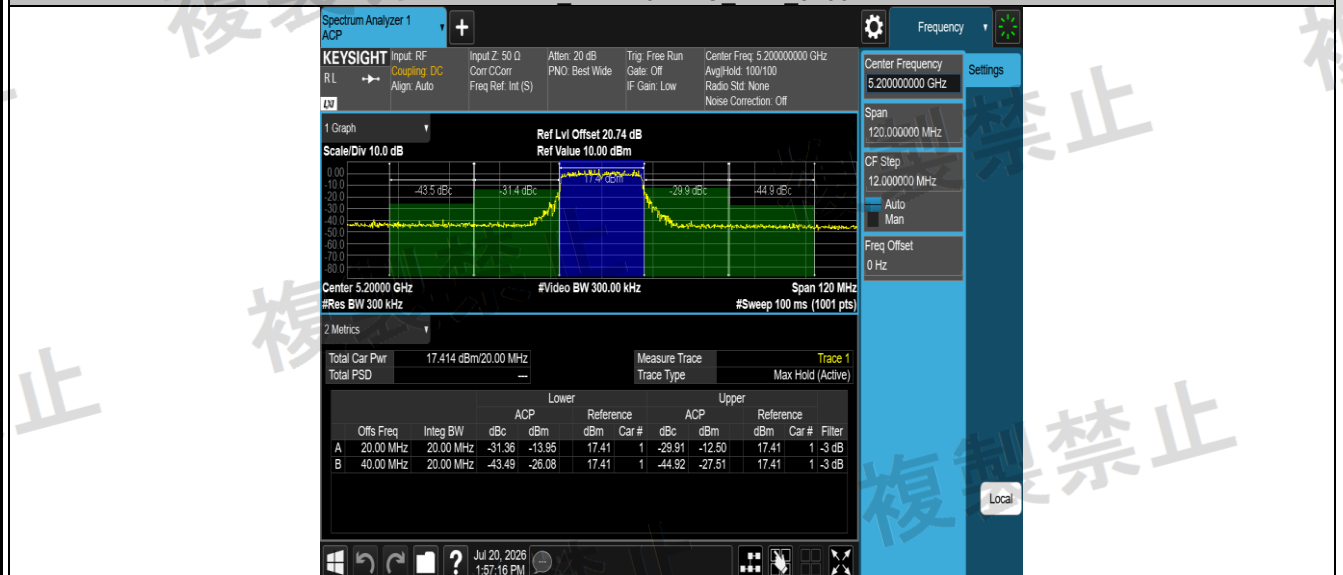
NTNV_11AC80MIMO Ant1 5210



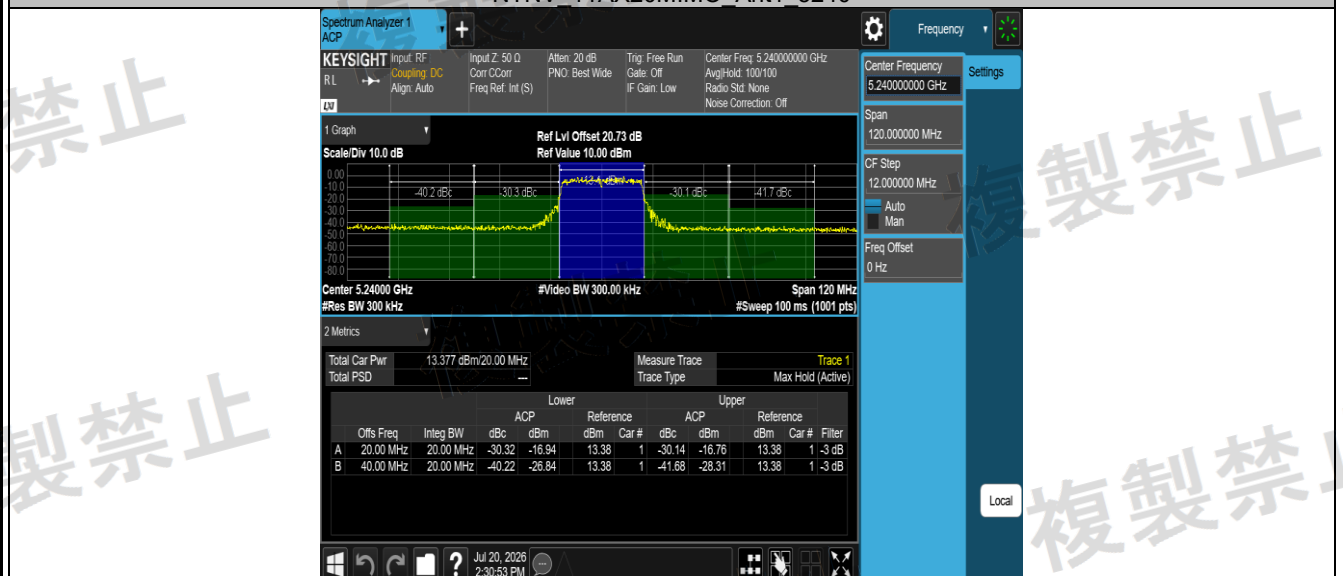
NTNV_11AX20MIMO Ant1 5180



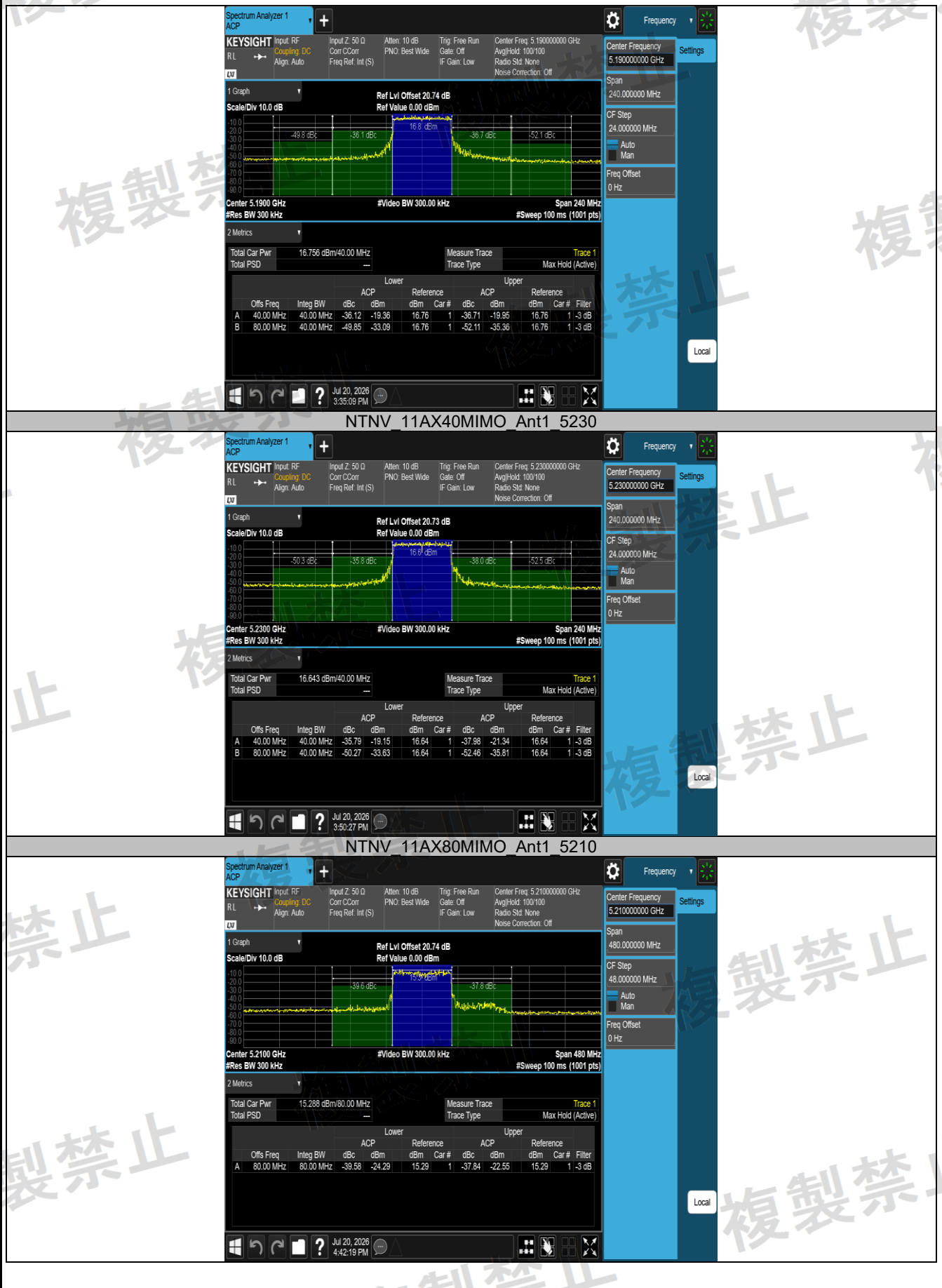
NTNV_11AX20MIMO Ant1 5200



NTNV_11AX20MIMO Ant1 5240



NTNV_11AX40MIMO Ant1 5190



Appendix A.8: Test Results of Out-Band Leakage Power
Test Result

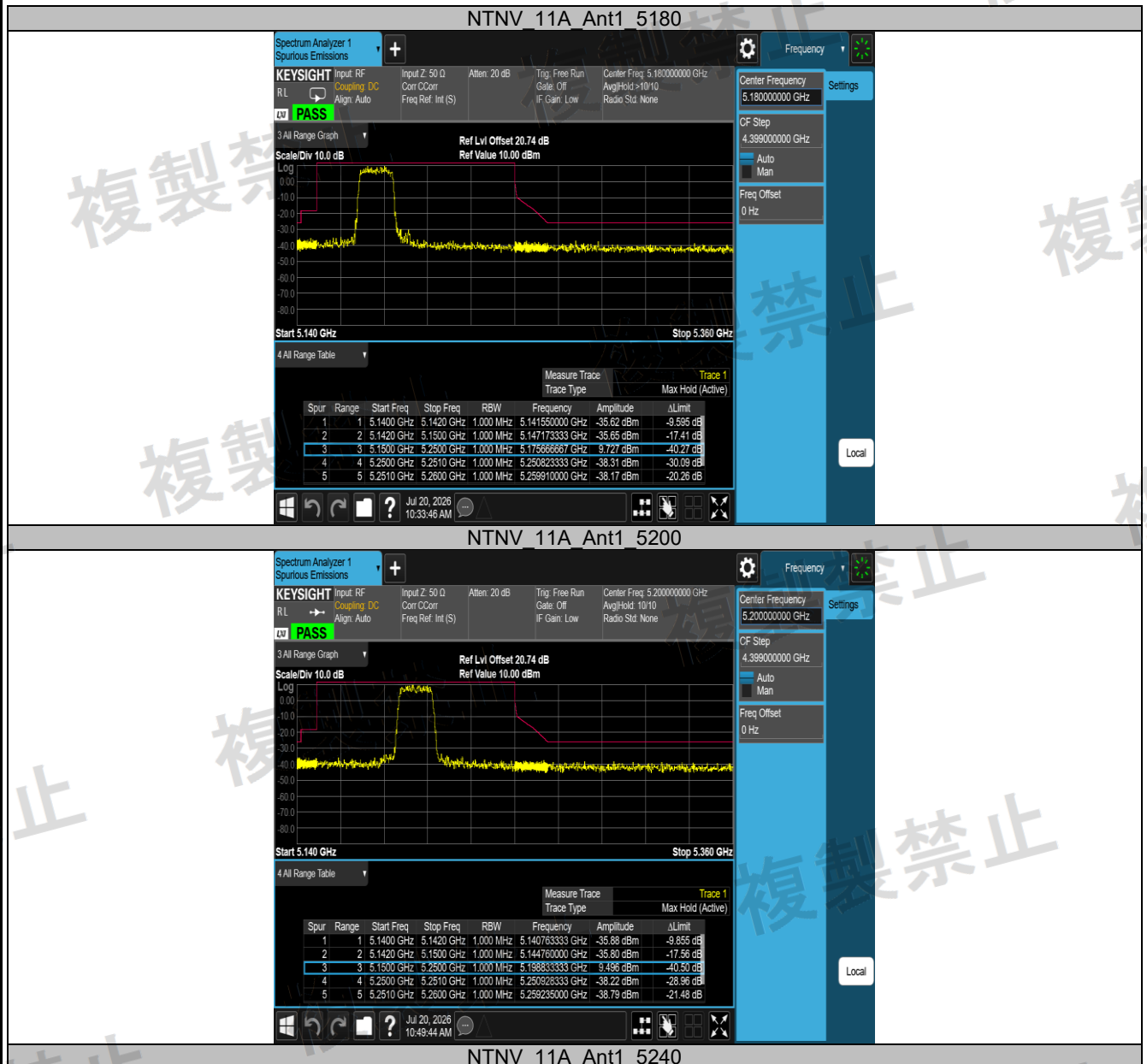
Test Condition	Test Mode	Antenna	Frequency [MHz]	FreRang [MHz]	Max.Freq. [MHz]	EIRP [dBm]	Verdict
NTNV	11A	Ant1	5180	5140~5142	5141.55	-35.62	PASS
				5142~5150	5147.17	-35.65	PASS
				5250~5251	5250.82	-38.31	PASS
				5251~5260	5259.91	-38.17	PASS
				5260~5266.7	5266.23	-39.00	PASS
				5266.7~5360	5292.20	-37.75	PASS
			5200	5140~5142	5140.76	-35.88	PASS
				5142~5150	5144.76	-35.80	PASS
				5250~5251	5250.93	-38.22	PASS
				5251~5260	5259.24	-38.79	PASS
				5260~5266.7	5264.62	-37.75	PASS
				5266.7~5360	5299.98	-38.33	PASS
			5240	5140~5142	5141.41	-35.85	PASS
				5142~5150	5147.60	-35.65	PASS
				5250~5251	5250.01	-16.61	PASS
				5251~5260	5257.20	-28.54	PASS
				5260~5266.7	5266.32	-34.86	PASS
				5266.7~5360	5270.90	-37.37	PASS
	11N20MIMO	Ant1	5180	5140~5142	5140.89	-35.82	PASS
				5142~5150	5145.95	-35.44	PASS
				5250~5251	5250.94	-39.12	PASS
				5251~5260	5259.46	-38.61	PASS
				5260~5266.7	5265.94	-37.47	PASS
				5266.7~5360	5345.54	-38.24	PASS
			5200	5140~5142	5141.45	-35.87	PASS
				5142~5150	5145.45	-35.54	PASS
				5250~5251	5250.96	-37.66	PASS
				5251~5260	5259.07	-37.93	PASS
				5260~5266.7	5266.01	-37.82	PASS
				5266.7~5360	5292.51	-38.14	PASS
			5240	5140~5142	5140.51	-35.97	PASS
				5142~5150	5143.87	-36.18	PASS
				5250~5251	5250.03	-13.29	PASS
				5251~5260	5257.26	-36.89	PASS
				5260~5266.7	5262.99	-37.33	PASS
				5266.7~5360	5288.16	-37.28	PASS
	11N40MIMO	Ant1	5190	5100~5141.6	5106.10	-35.69	PASS
				5141.6~5150	5148.70	-35.53	PASS
				5250~5251	5250.86	-37.89	PASS
				5251~5270	5267.66	-38.28	PASS
				5270~5278.4	5278.11	-37.97	PASS
				5278.4~5400	5391.08	-38.17	PASS
			5230	5100~5141.6	5102.98	-35.25	PASS
				5141.6~5150	5149.52	-35.98	PASS
				5250~5251	5250.33	-13.89	PASS
				5251~5270	5251.16	-16.98	PASS
	11AC20MIMO	Ant1	5180	5140~5142	5141.22	-35.02	PASS
				5142~5150	5145.12	-35.70	PASS
				5250~5251	5250.95	-38.59	PASS
				5251~5260	5258.94	-38.48	PASS
				5260~5266.7	5265.46	-39.07	PASS
				5266.7~5360	5346.01	-38.04	PASS
			5200	5140~5142	5141.05	-34.57	PASS
				5142~5150	5143.64	-35.14	PASS
				5250~5251	5250.95	-38.16	PASS

	11AC40MIMO	Ant1	5240	5251~5260	5259.97	-38.66	PASS	
				5260~5266.7	5265.40	-38.68	PASS	
				5266.7~5360	5314.28	-37.24	PASS	
				5140~5142	5141.40	-35.48	PASS	
				5142~5150	5142.41	-35.24	PASS	
				5250~5251	5250.20	-7.78	PASS	
				5251~5260	5251.39	-14.27	PASS	
				5260~5266.7	5266.69	-38.64	PASS	
			5266.7~5360	5292.36	-38.68	PASS		
			5190	5100~5141.6	5135.36	-36.18	PASS	
				5141.6~5150	5145.84	-36.27	PASS	
				5250~5251	5250.97	-37.31	PASS	
				5251~5270	5267.25	-38.00	PASS	
				5270~5278.4	5276.03	-36.88	PASS	
	5278.4~5400	5298.46		-38.84	PASS			
	5230	5100~5141.6	5137.65	-36.09	PASS			
		5141.6~5150	5145.67	-36.49	PASS			
		5250~5251	5250.43	-14.25	PASS			
		5251~5270	5251.32	-18.95	PASS			
		5270~5278.4	5277.62	-37.63	PASS			
		5278.4~5400	5284.28	-39.35	PASS			
		11AC80MIMO	Ant1	5210	5020~5123.2	5090.52	-35.42	PASS
					5123.2~5150	5124.94	-35.09	PASS
	5250~5251				5250.64	-16.68	PASS	
	5251~5290				5252.17	-20.76	PASS	
	5290~5296.7				5295.91	-36.56	PASS	
	5296.7~5480				5430.81	-38.87	PASS	
	11AX20MIMO	Ant1	5180	5135~5142	5141.09	-35.92	PASS	
				5142~5150	5145.65	-35.64	PASS	
				5250~5250.2	5250.19	-38.66	PASS	
				5250.2~5251	5250.83	-37.98	PASS	
				5251~5260	5258.97	-37.83	PASS	
				5260~5266.7	5265.08	-38.89	PASS	
			5200	5266.7~5365	5275.87	-38.10	PASS	
				5135~5142	5138.48	-35.30	PASS	
				5142~5150	5143.43	-36.13	PASS	
				5250~5250.2	5250.17	-38.45	PASS	
				5250.2~5251	5250.94	-38.39	PASS	
				5251~5260	5258.50	-38.80	PASS	
			5240	5260~5266.7	5264.21	-38.86	PASS	
				5266.7~5365	5280.79	-38.92	PASS	
				5135~5142	5136.39	-36.17	PASS	
				5142~5150	5144.51	-35.51	PASS	
				5250~5250.2	5250.20	-6.11	PASS	
				5250.2~5251	5250.61	-9.96	PASS	
				5251~5260	5251.14	-17.09	PASS	
5260~5266.7				5266.63	-38.33	PASS		
11AX40MIMO	Ant1	5190	5266.7~5365	5268.34	-39.33	PASS		
			5100~5141.6	5116.85	-35.51	PASS		
			5141.6~5150	5145.90	-35.18	PASS		
			5250~5251	5250.83	-38.78	PASS		
		5230	5251~5270	5270.00	-38.67	PASS		
			5270~5278.4	5277.87	-38.99	PASS		
			5278.4~5400	5365.95	-38.85	PASS		
			5100~5141.6	5118.79	-35.51	PASS		
			5141.6~5150	5141.70	-36.18	PASS		
			5250~5251	5250.59	-12.74	PASS		
11AX80MIMO	Ant1	5210	5251~5270	5253.06	-23.31	PASS		
			5270~5278.4	5276.89	-39.00	PASS		
			5278.4~5400	5324.00	-39.41	PASS		
			5020~5123.2	5049.41	-35.45	PASS		
			5123.2~5150	5143.93	-34.89	PASS		
			5250~5251	5250.00	-16.56	PASS		

				5251~5290	5252.76	-26.70	PASS
				5290~5296.7	5293.08	-34.07	PASS
				5296.7~5480	5346.19	-39.29	PASS

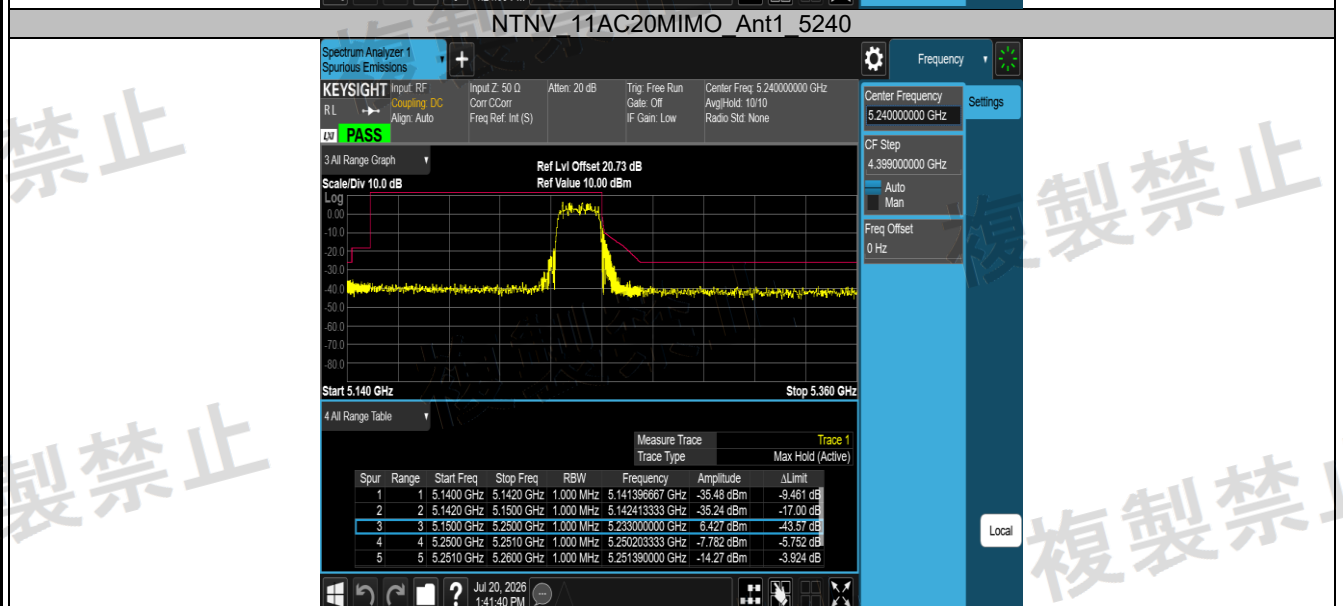
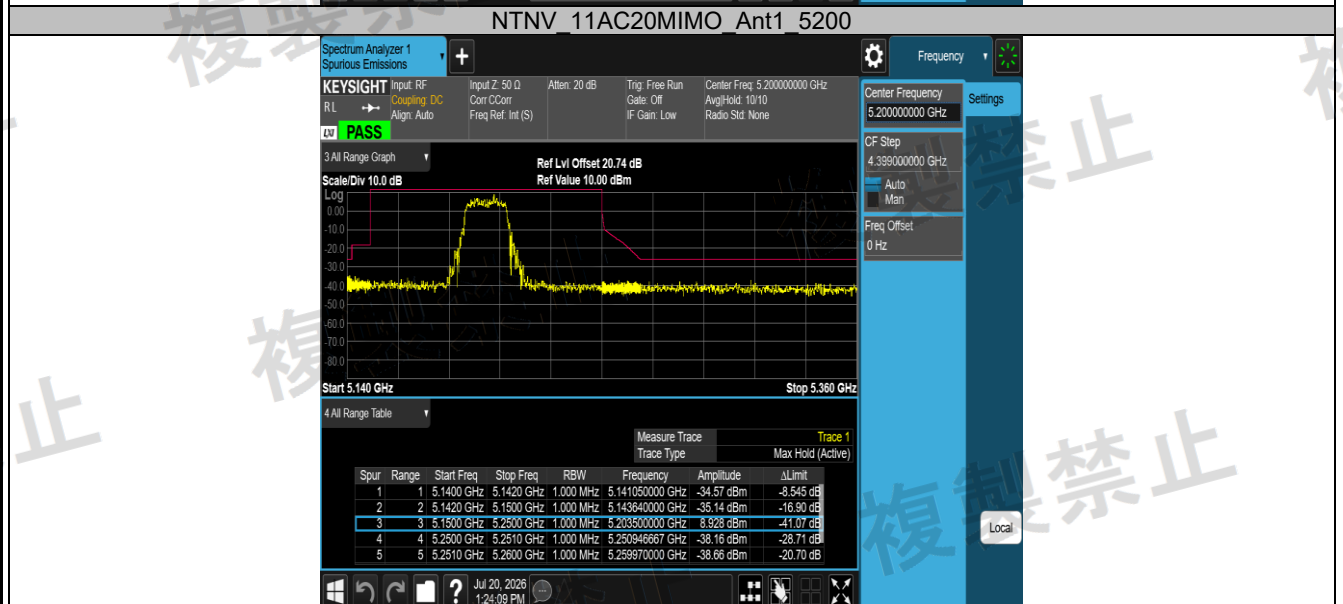
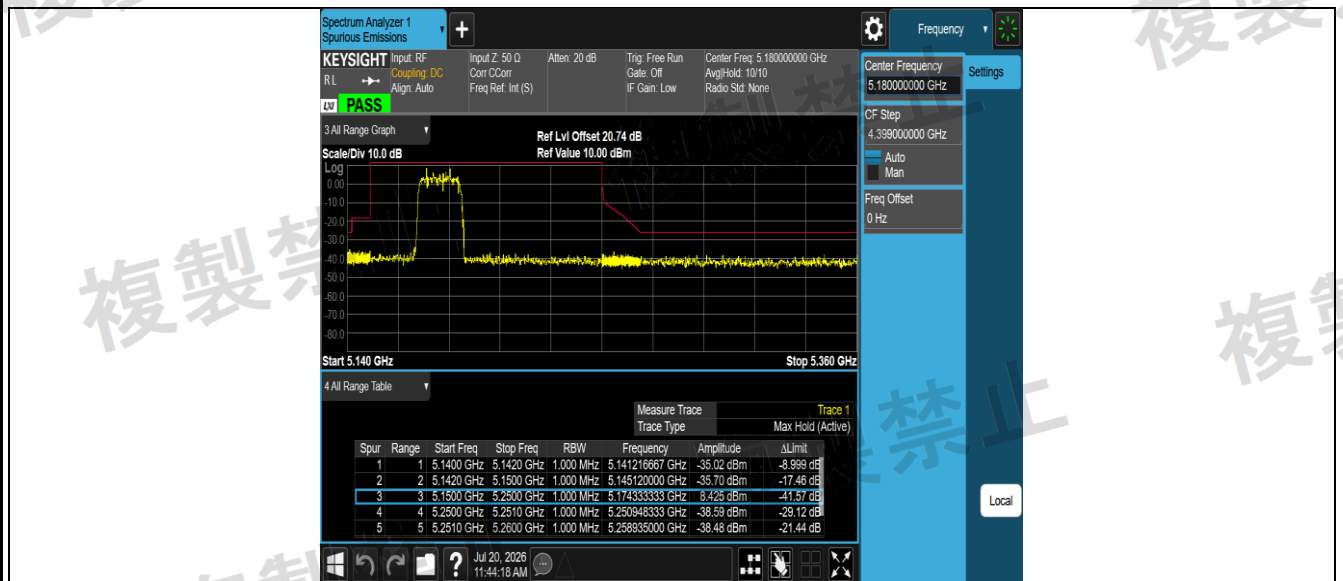
Note: The Antenna Gain is compensated in the graph.

Test Graphs















**Appendix A.9: Test Results of Carrier Sensing***Test Result*

Type	Test channel	Result
802.11n (HT40)	CH _L , CH _M , CH _H	Acceptance
802.11ac (VHT40)	CH _L , CH _M , CH _H	Acceptance
802.11ac (VHT80)	CH _L , CH _M , CH _H	Acceptance
802.11 ax (HE40)	CH _L , CH _M , CH _H	Acceptance
802.11 ax (HE80)	CH _L , CH _M , CH _H	Acceptance

Appendix A.10: Test Results of Interference Prevention Function*Test Result*

Temperature:	24.8°C	Humidity:	55%RH
MAC address:	140A02F32C6D	Test result:	Conform