



Appendix D

RF Test Data for 5.2G WIFI (Conducted Measurement)

Product Name: Legends Ultimate Mini Home Arcade

Test Model: HA8811

Environmental Conditions

Temperature:	23.5° C
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Monkey Li
Supervised by:	Li huan



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D.1 26dB Bandwidth

Test Result

TestMode	Antenna	Channel	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant	5180	18.520	5170.760	5189.280	---	---
		5220	18.520	5210.760	5229.280	---	---
		5240	18.520	5230.760	5249.280	---	---
11N20SISO	Ant	5180	19.520	5170.240	5189.760	---	---
		5220	19.520	5210.240	5229.760	---	---
		5240	19.560	5230.160	5249.720	---	---
11N40SISO	Ant	5190	41.440	5169.360	5210.800	---	---
		5230	41.440	5209.280	5250.720	---	---
11AC20SISO	Ant	5180	19.400	5170.280	5189.680	---	---
		5220	19.520	5210.240	5229.760	---	---
		5240	19.480	5230.240	5249.720	---	---
11AC40SISO	Ant	5190	41.200	5169.200	5210.400	---	---
		5230	41.200	5209.200	5250.400	---	---
11AC80SISO	Ant	5210	81.280	5169.520	5250.800	---	---





Test Graphs

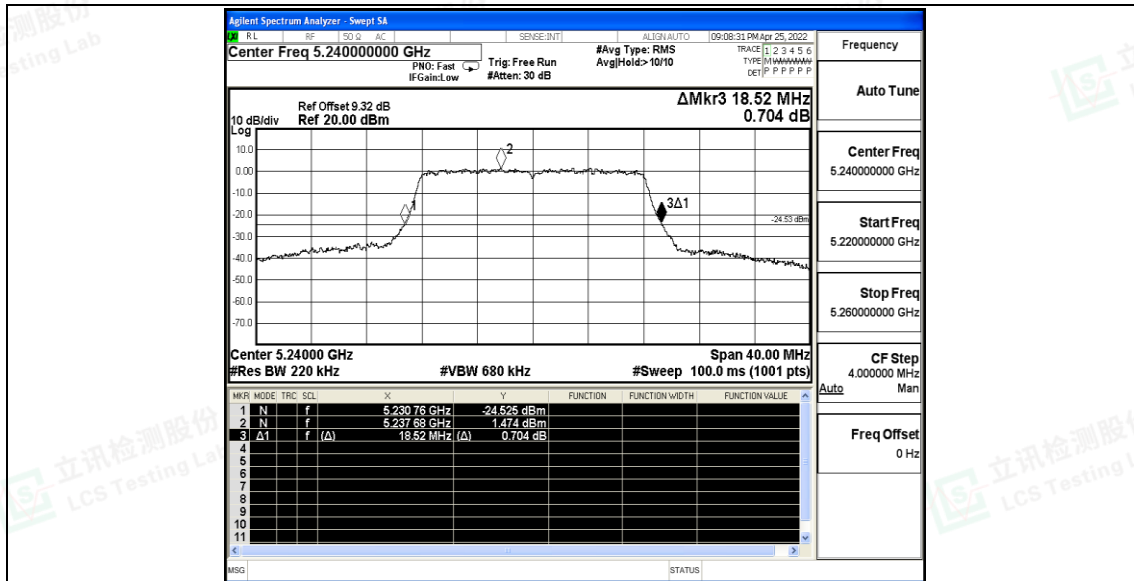


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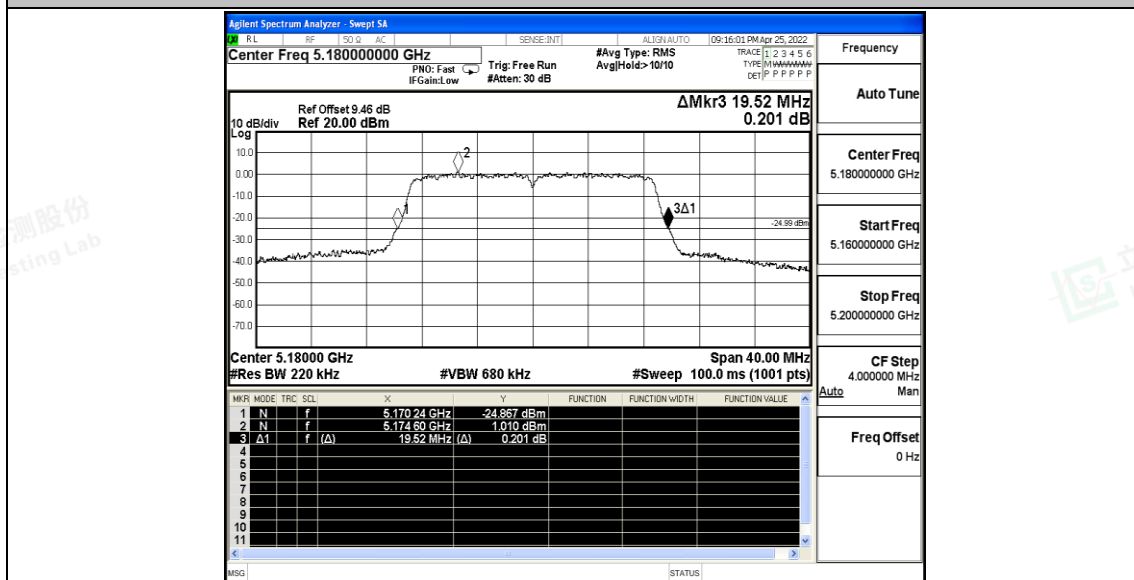
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11N20SISO_Ant_5180



11N20SISO_Ant_5220

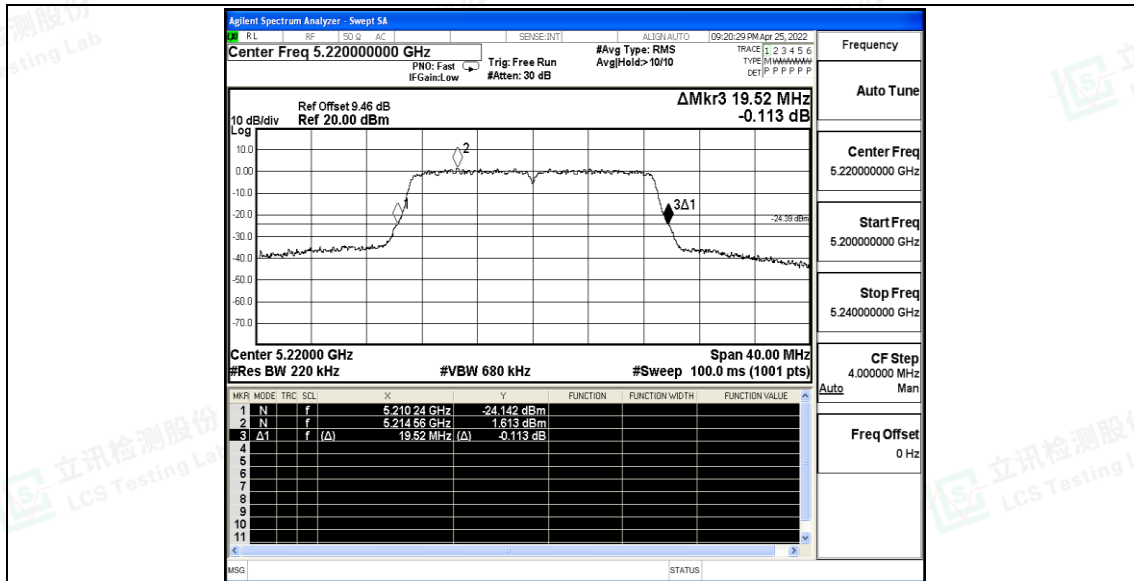


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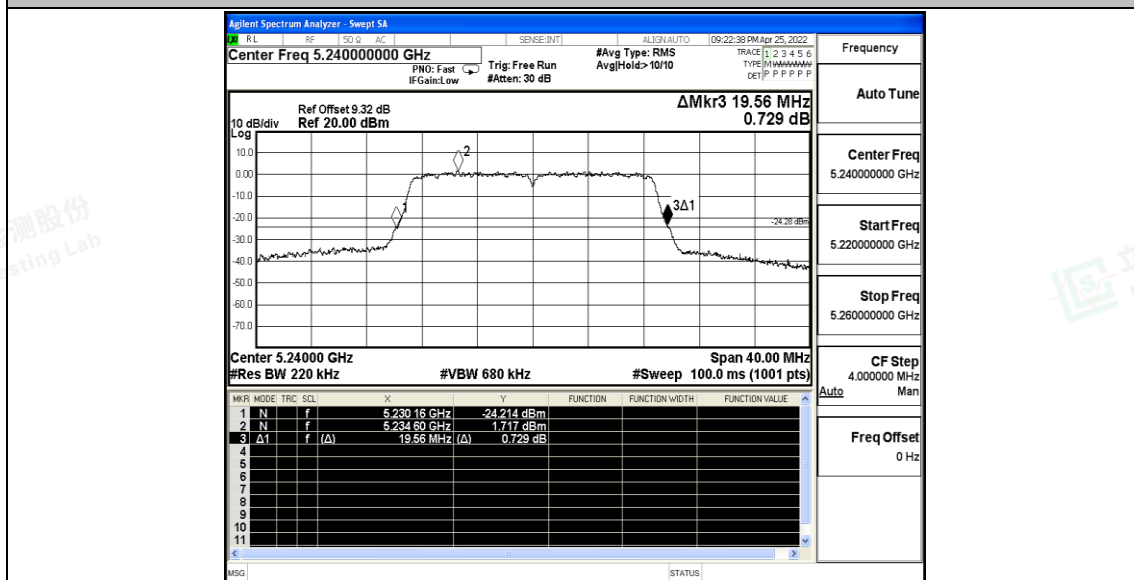
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11N20SISO_Ant_5240



11N40SISO_Ant_5190

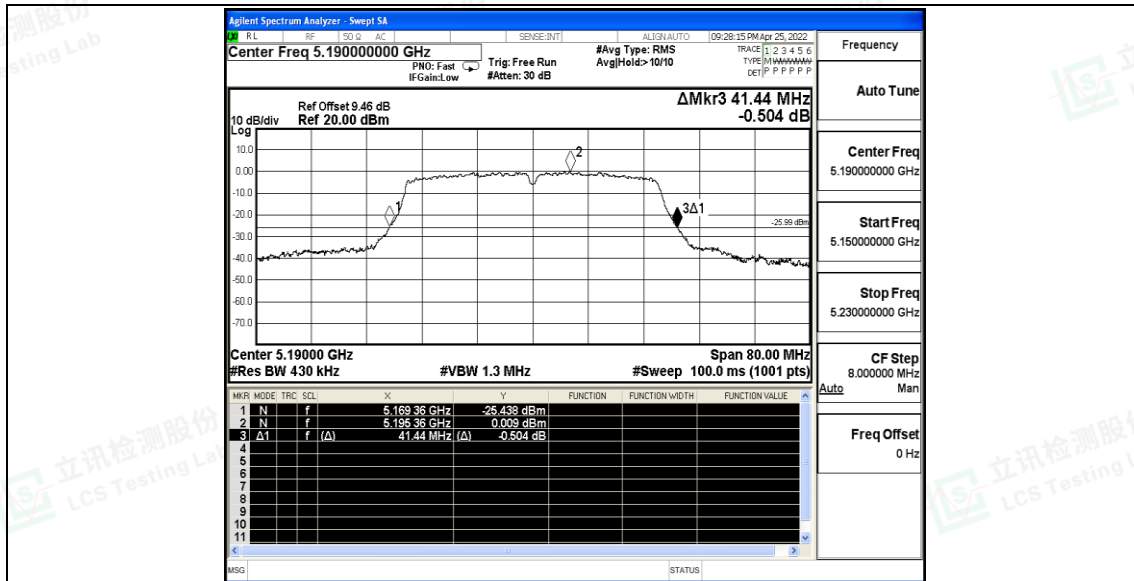


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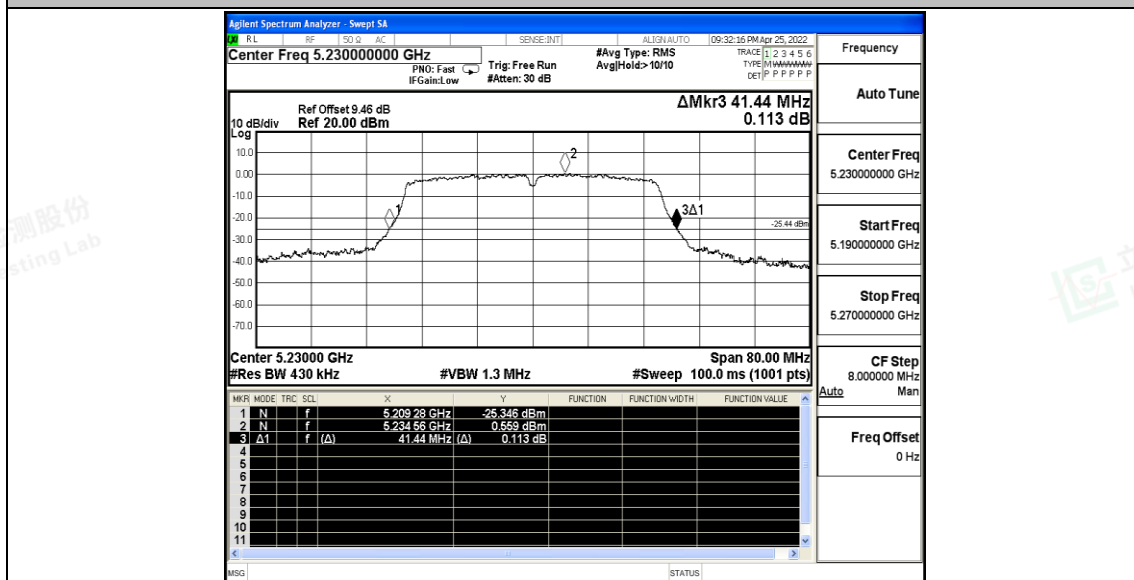
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11N40SISO_Ant_5230



11AC20SISO_Ant_5180

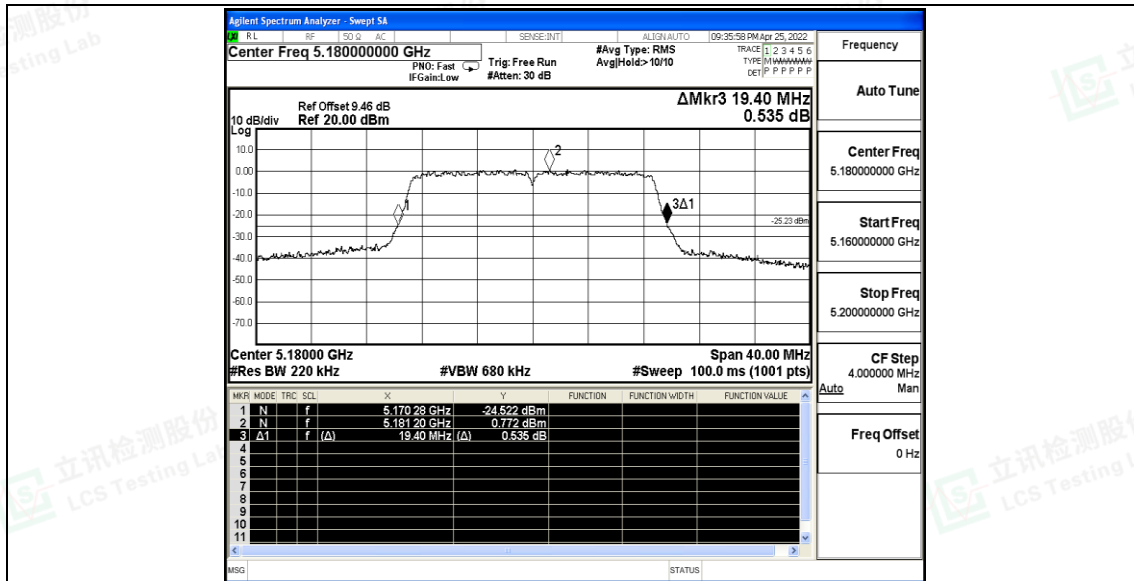


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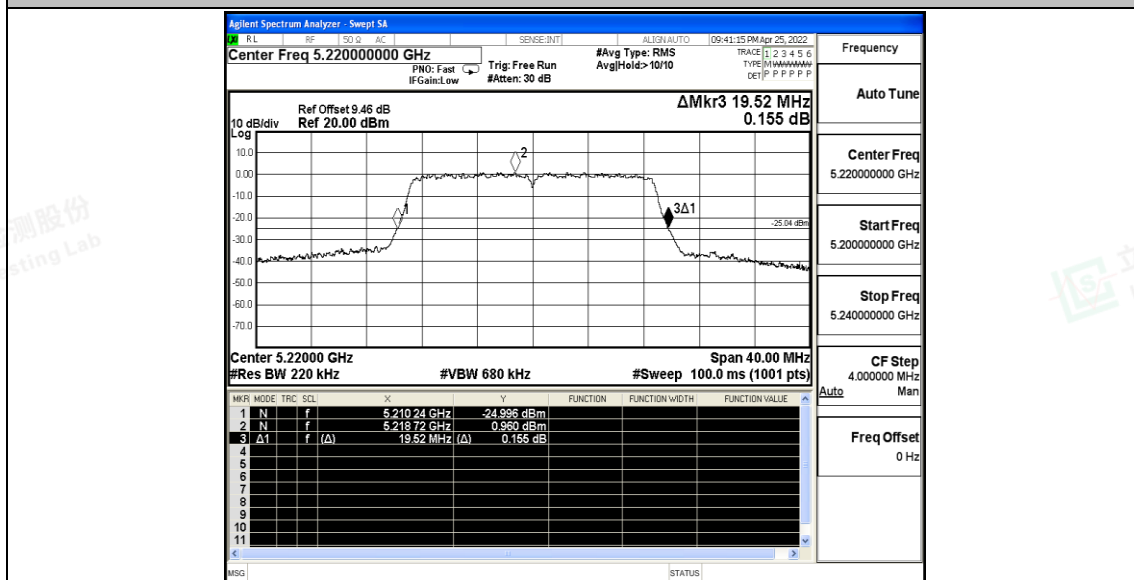
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11AC20SISO_Ant_5220



11AC20SISO_Ant_5240

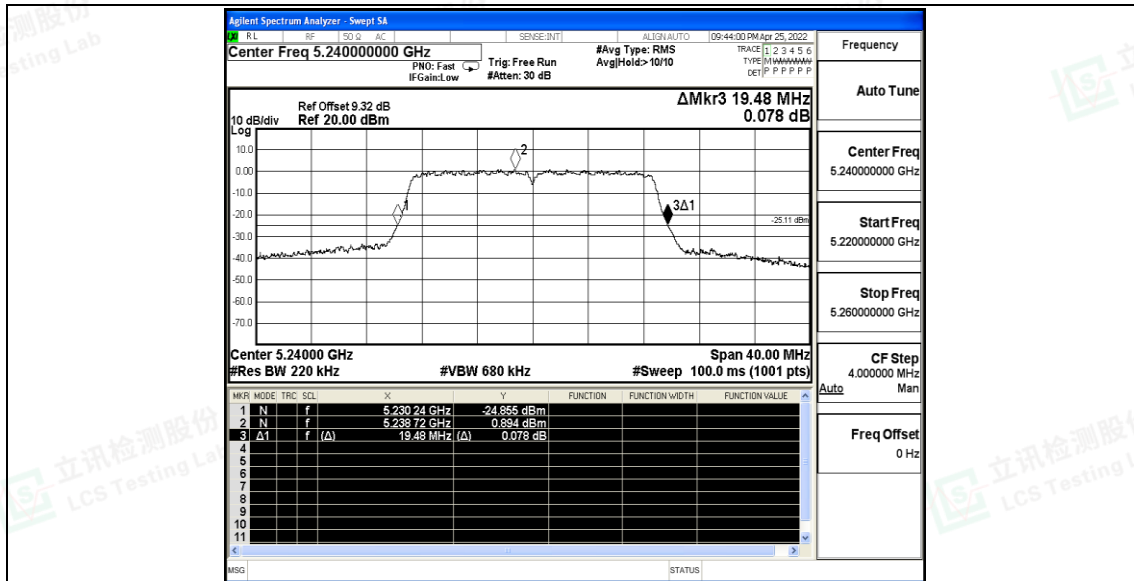


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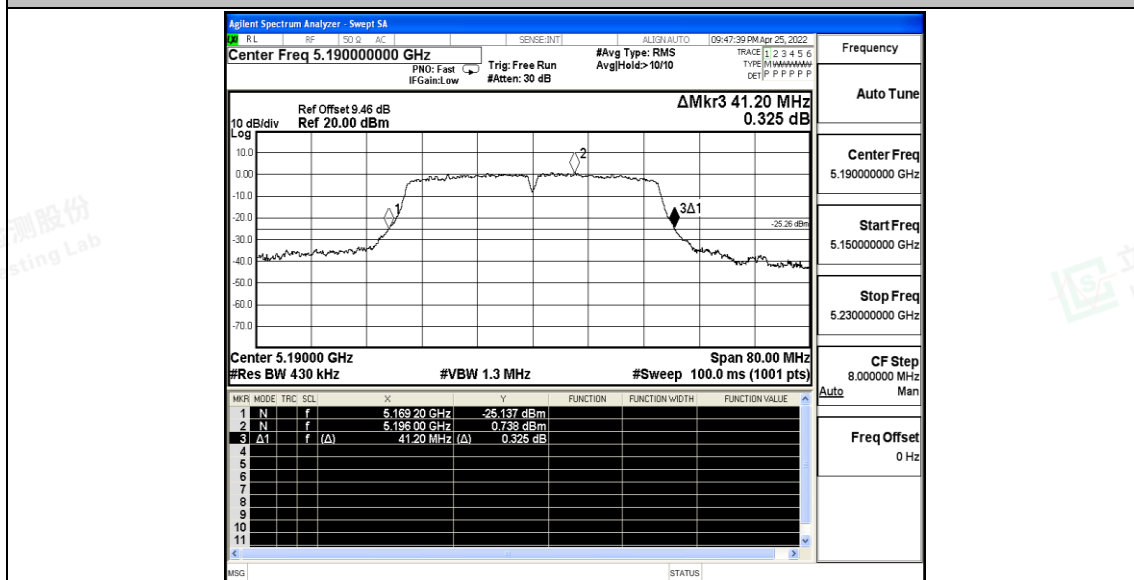
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11AC40SISO_Ant_5190



11AC40SISO_Ant_5230

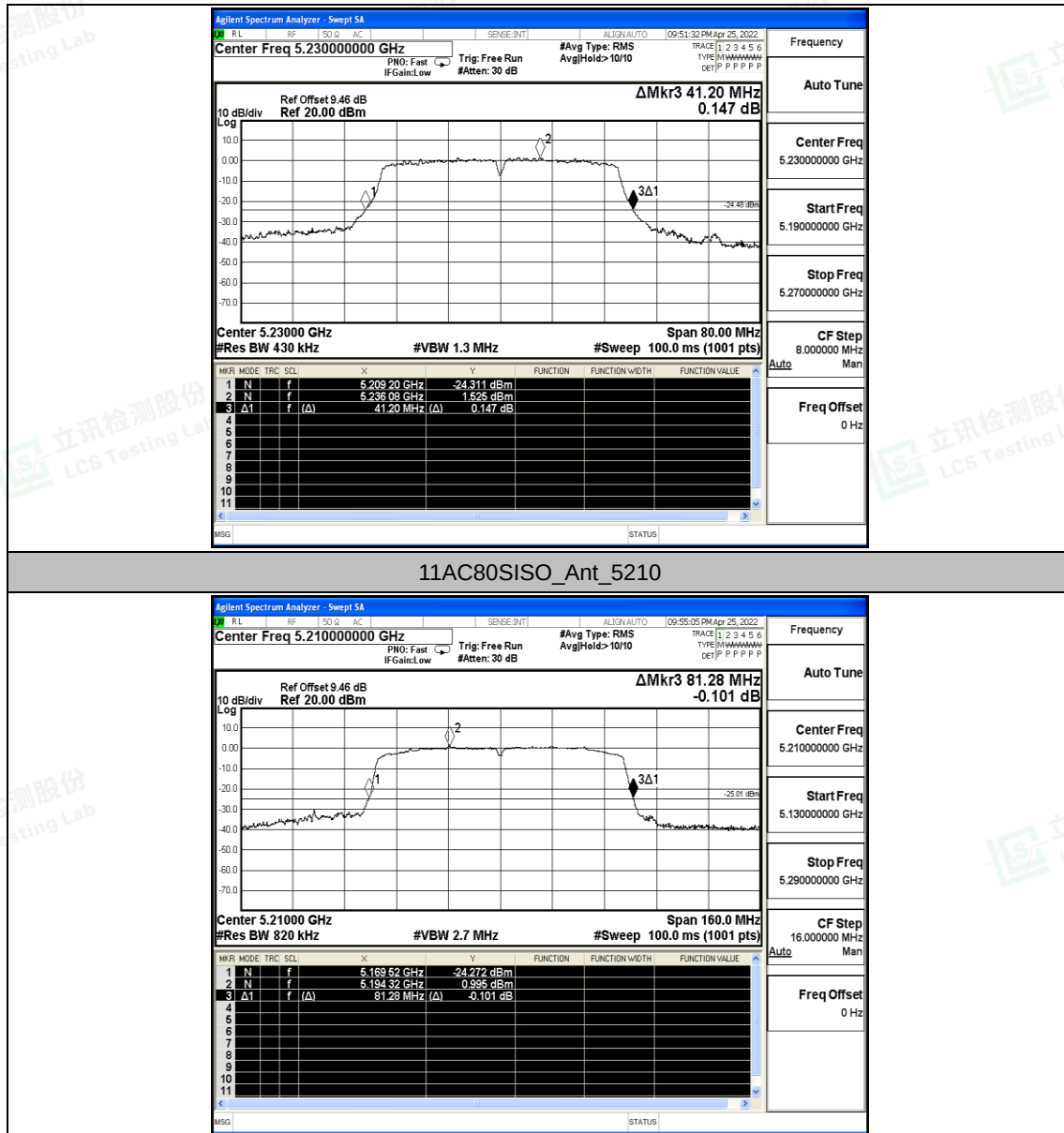


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D.2 Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11A	Ant	5180	11.61	≤23.98	PASS
		5220	11.13	≤23.98	PASS
		5240	11.17	≤23.98	PASS
11N20SISO	Ant	5180	10.85	≤23.98	PASS
		5220	10.94	≤23.98	PASS
		5240	11.14	≤23.98	PASS
11N40SISO	Ant	5190	10.02	≤23.98	PASS
		5230	10.38	≤23.98	PASS
11AC20SISO	Ant	5180	10.29	≤23.98	PASS
		5220	10.67	≤23.98	PASS
		5240	10.65	≤23.98	PASS
11AC40SISO	Ant	5190	10.59	≤23.98	PASS
		5230	11.04	≤23.98	PASS
11AC80SISO	Ant	5210	11.30	≤23.98	PASS

Note: The Duty Cycle Factor is compensated in the graph.





D.3 Maximum power spectral density

Test Result

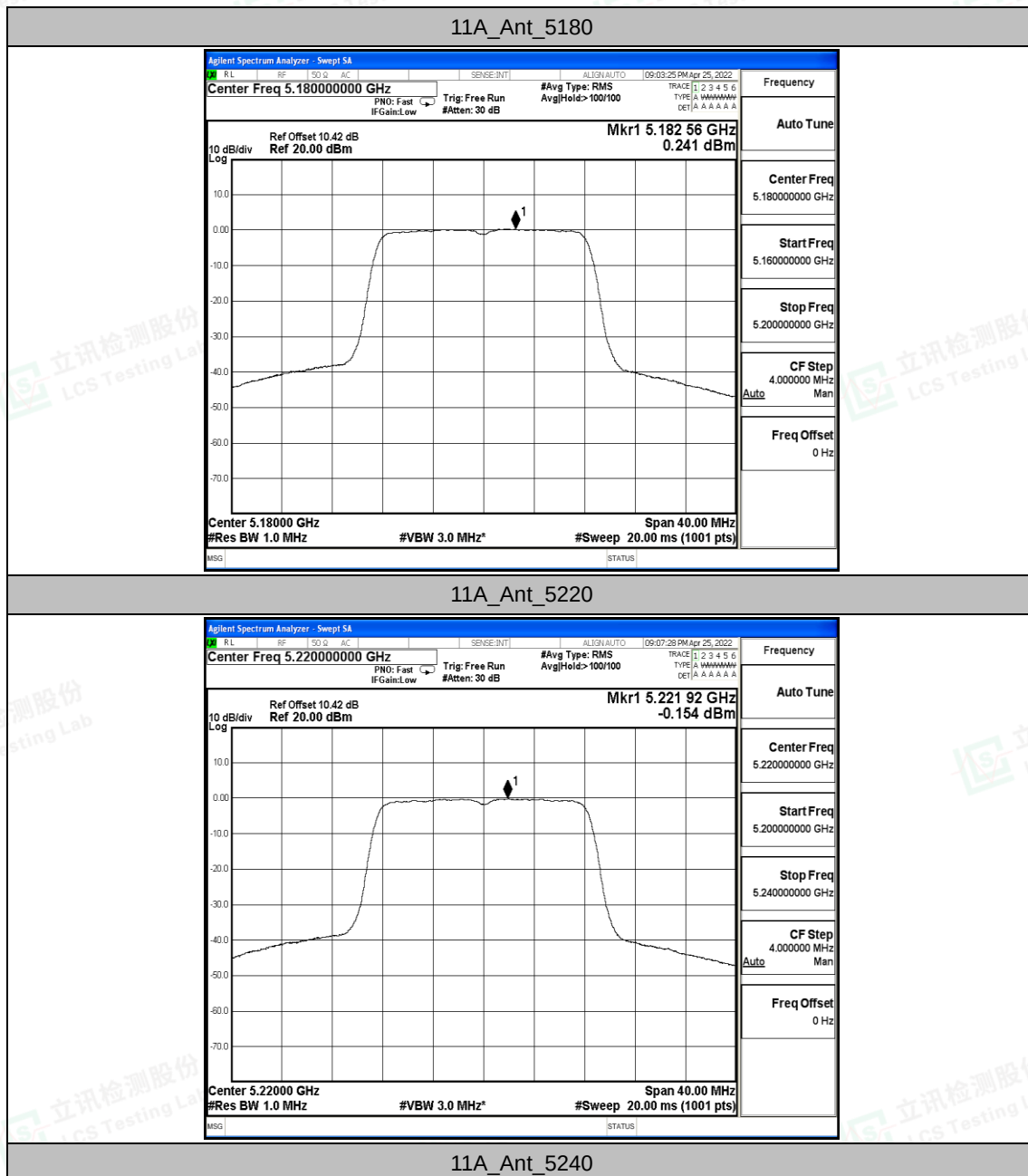
TestMode	Antenna	Channel	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant	5180	0.27	≤11.00	PASS
		5220	-0.12	≤11.00	PASS
		5240	-0.16	≤11.00	PASS
11N20SISO	Ant	5180	-0.75	≤11.00	PASS
		5220	-0.71	≤11.00	PASS
		5240	-0.58	≤11.00	PASS
11N40SISO	Ant	5190	-4.21	≤11.00	PASS
		5230	-3.81	≤11.00	PASS
11AC20SISO	Ant	5180	-1.46	≤11.00	PASS
		5220	-0.96	≤11.00	PASS
		5240	-0.97	≤11.00	PASS
11AC40SISO	Ant	5190	-3.48	≤11.00	PASS
		5230	-3.18	≤11.00	PASS
11AC80SISO	Ant	5210	-5.46	≤11.00	PASS

Note: The Duty Cycle Factor and RBW Factor is compensated in the graph.





Test Graphs

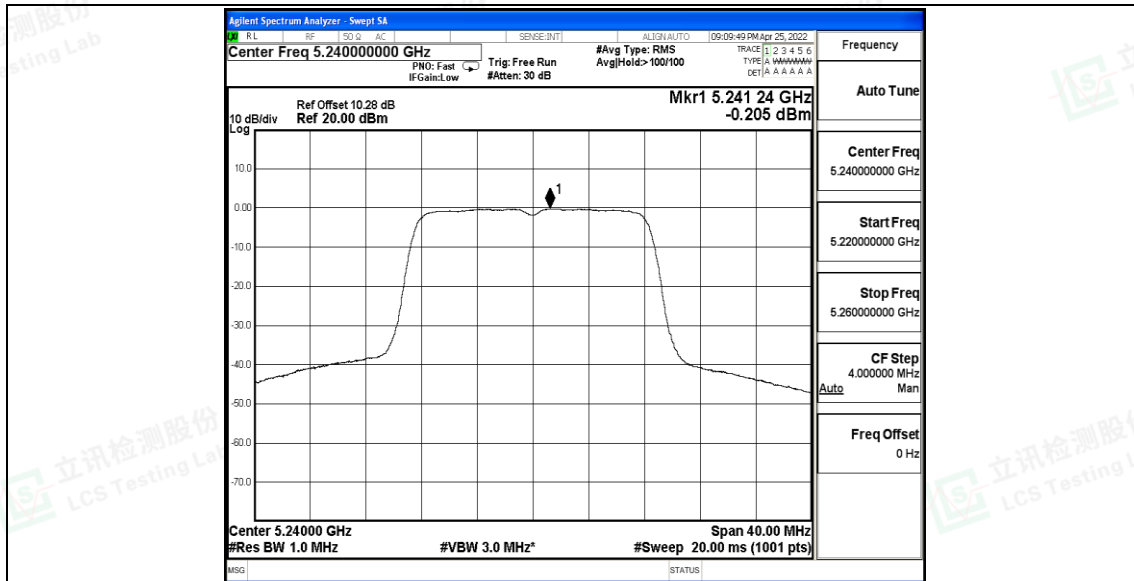


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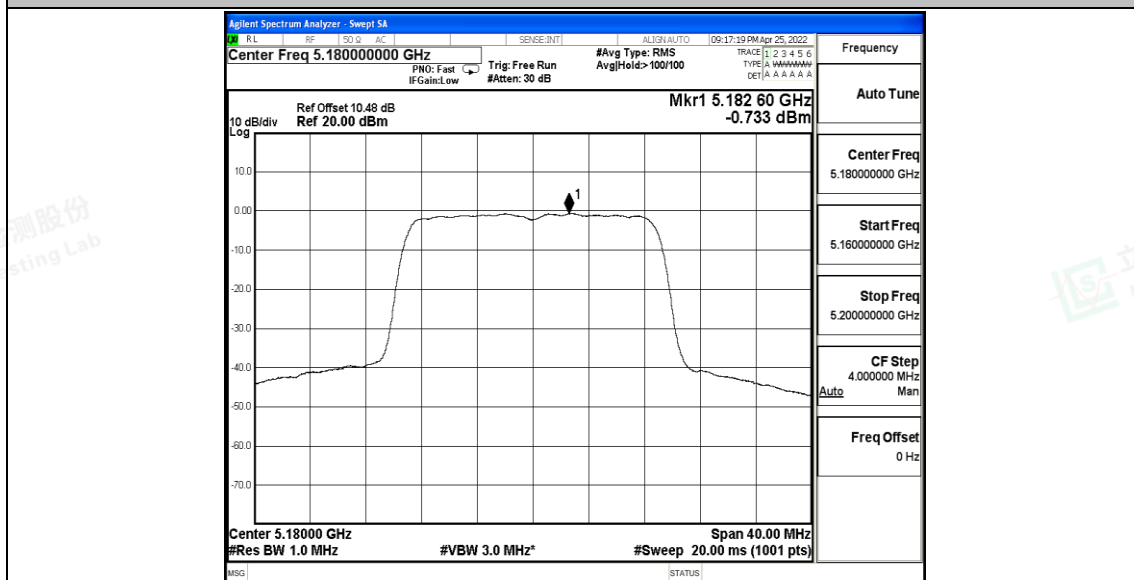
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11N20SISO_Ant_5180



11N20SISO_Ant_5220

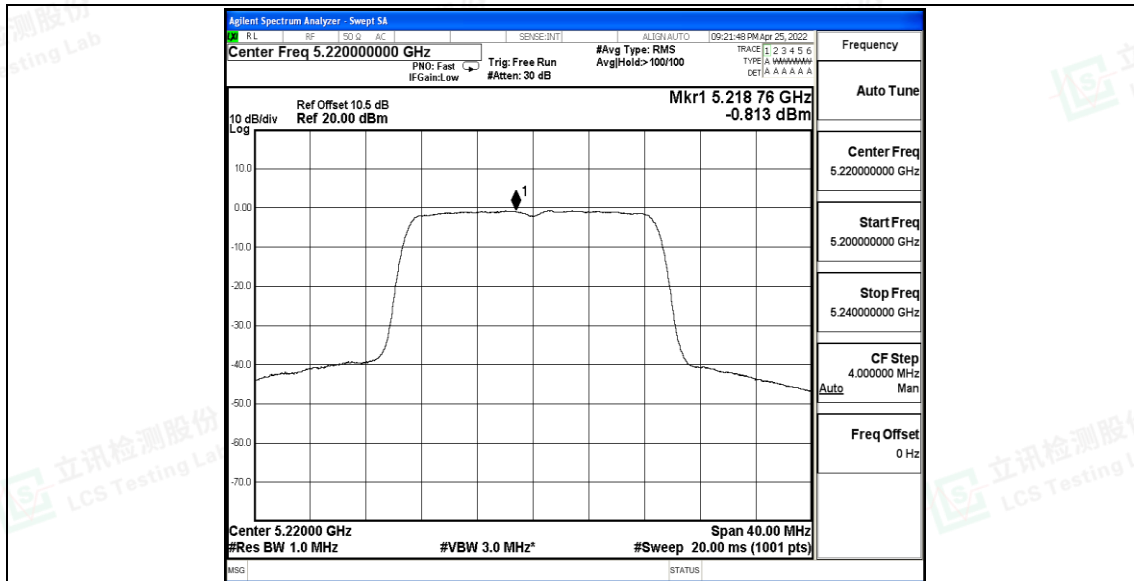


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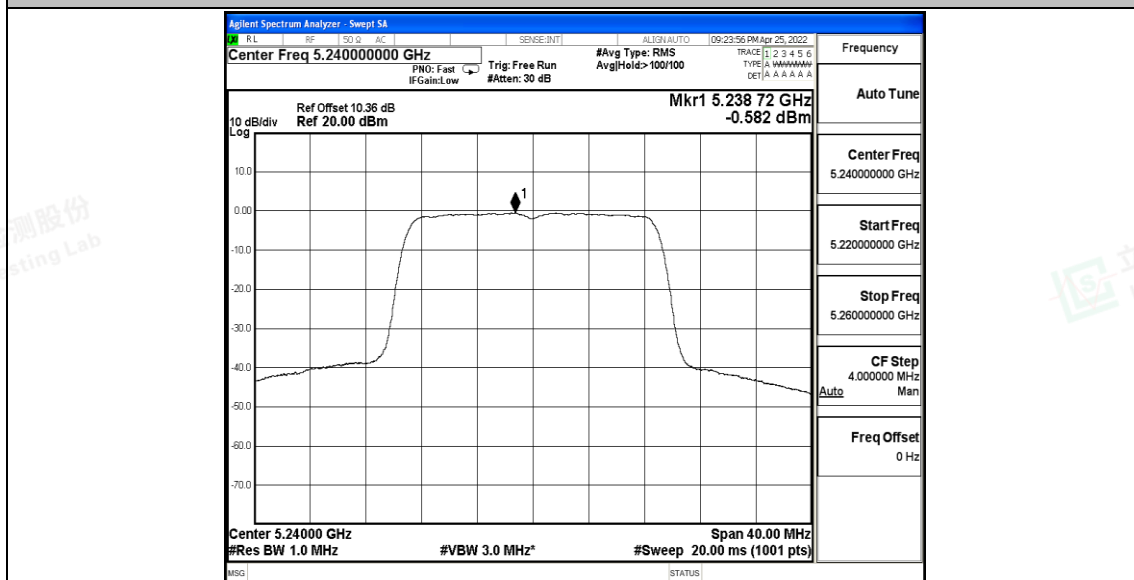
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11N20SISO_Ant_5240



11N40SISO_Ant_5190

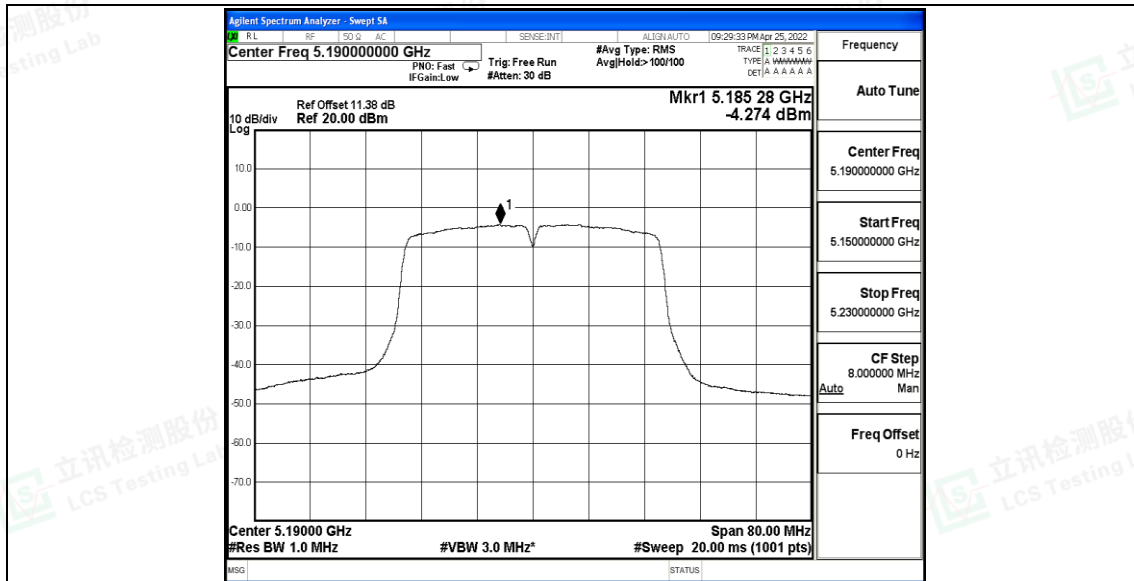


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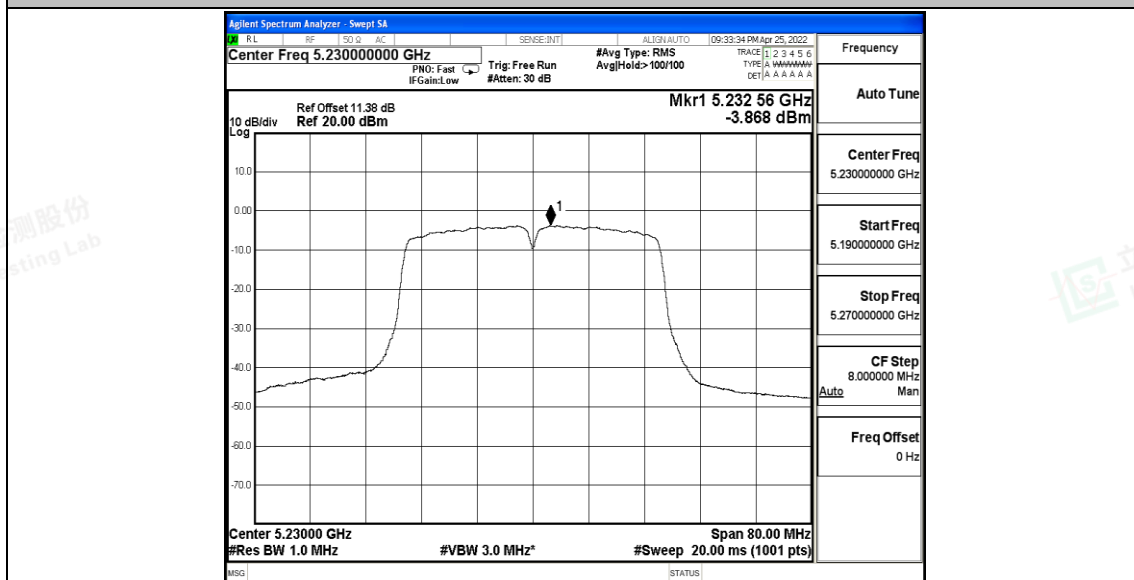
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11N40SISO_Ant_5230



11AC20SISO_Ant_5180

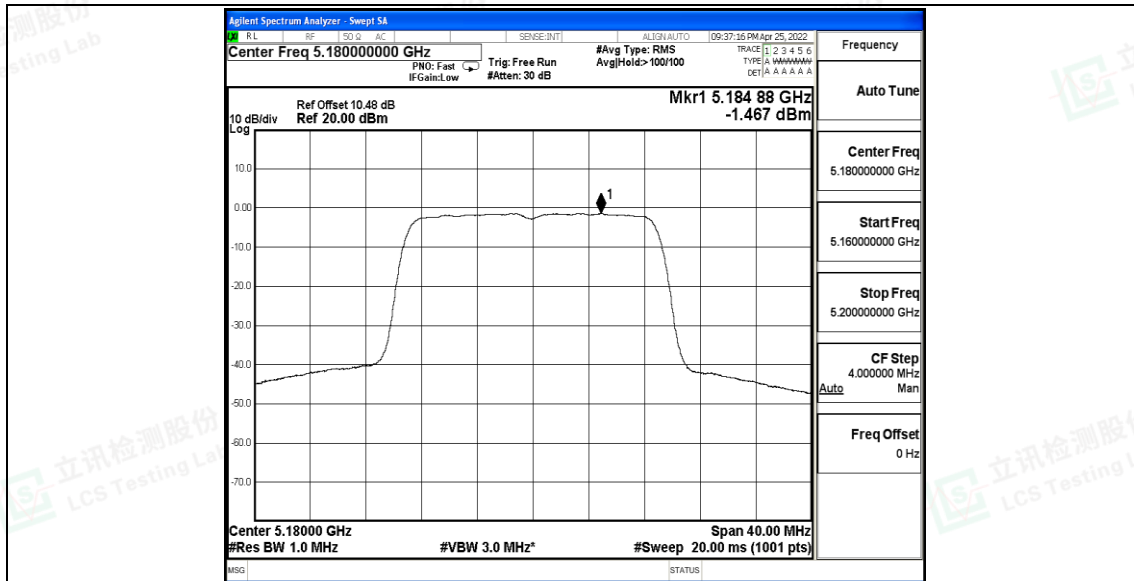


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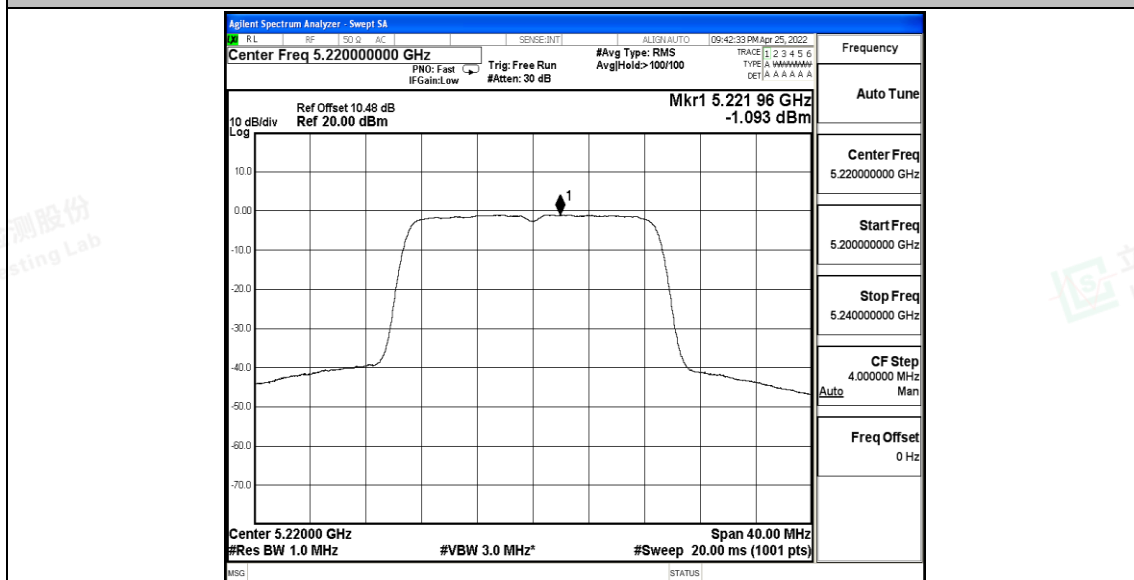
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11AC20SISO_Ant_5220



11AC20SISO_Ant_5240

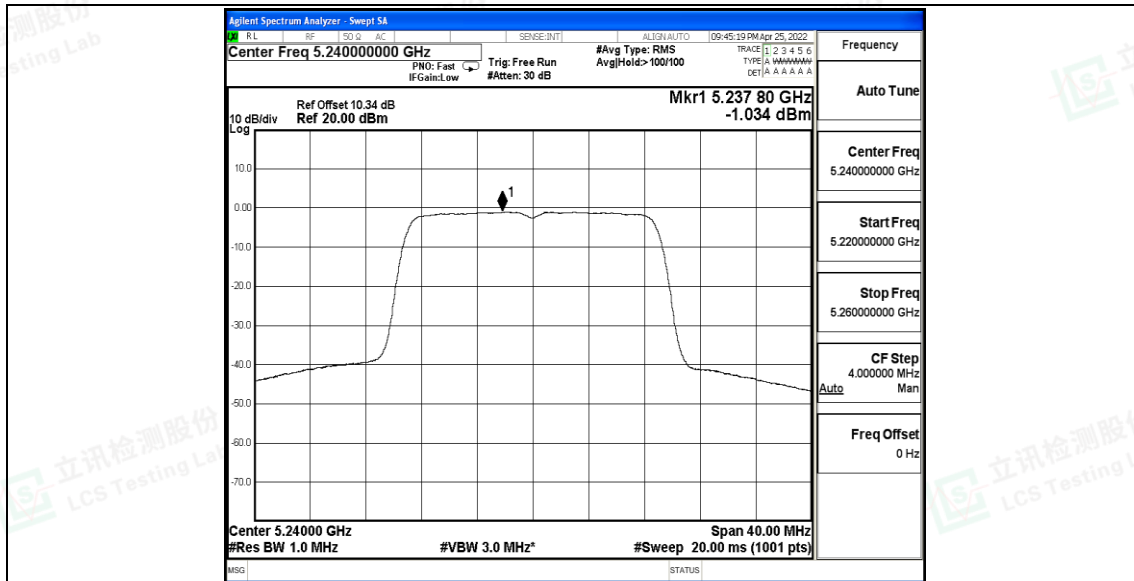


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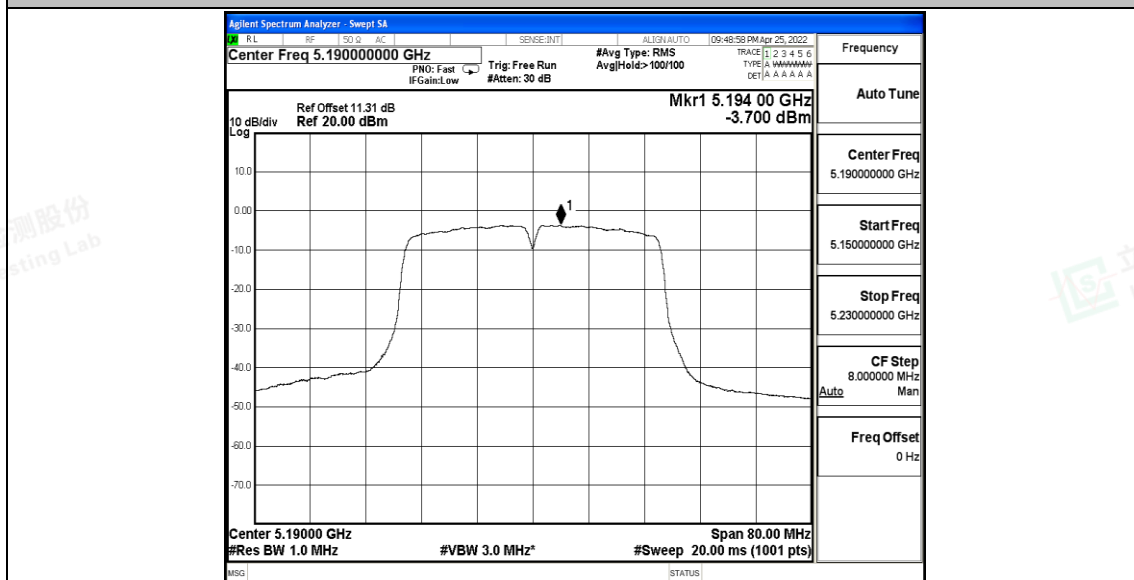
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11AC40SISO_Ant_5190



11AC40SISO_Ant_5230

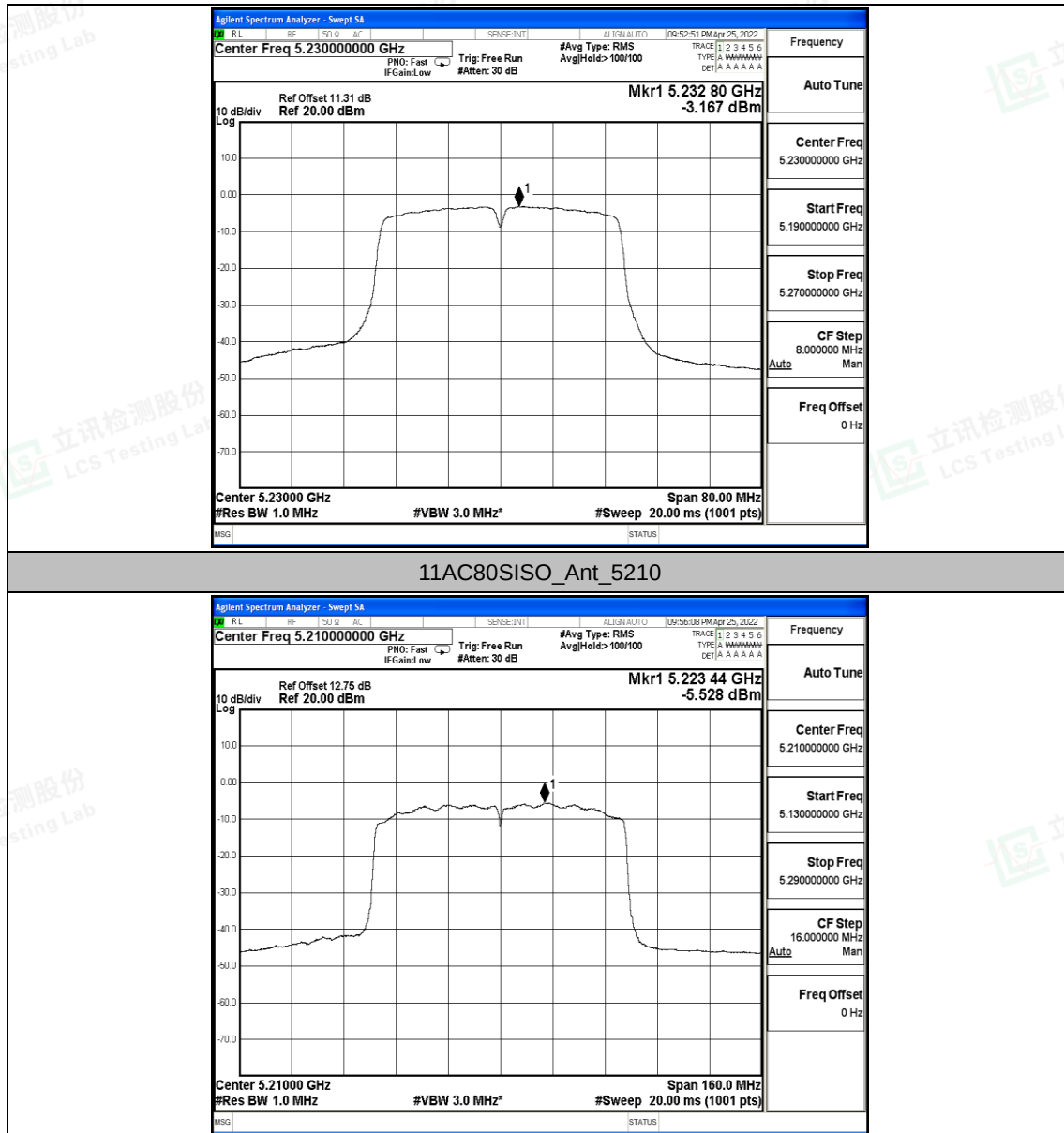


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D.4 Emissions in Restricted Bands

Test Result

TestMode	Antenna	ChName	Channel	Detector	Freq. [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
11A	Ant	Low	5180	AV	4500.000	-49.03	≤-41.20	46.17	≤54	PASS
				AV	4845.100	-46.97	≤-41.20	48.23	≤54	PASS
				AV	5150.000	-47.26	≤-41.20	47.94	≤54	PASS
				Peak	4500.000	-40.6	≤-21.20	54.60	≤74	PASS
				Peak	4960.600	-35.64	≤-21.20	59.56	≤74	PASS
				Peak	5150.000	-38.89	≤-21.20	56.31	≤74	PASS
		High	5240	AV	5350.000	-47.04	≤-41.20	48.16	≤54	PASS
				AV	5374.320	-46.88	≤-41.20	48.32	≤54	PASS
				AV	5460.000	-47.46	≤-41.20	47.74	≤54	PASS
				Peak	5350.000	-39.43	≤-21.20	55.77	≤74	PASS
				Peak	5350.560	-36.85	≤-21.20	58.35	≤74	PASS
				Peak	5460.000	-39.25	≤-21.20	55.95	≤74	PASS
11N20SIS O	Ant	Low	5180	AV	4500.000	-48.95	≤-41.20	46.25	≤54	PASS
				AV	4839.500	-46.97	≤-41.20	48.23	≤54	PASS
				AV	5150.000	-47.34	≤-41.20	47.86	≤54	PASS
				Peak	4500.000	-39.91	≤-21.20	55.29	≤74	PASS
				Peak	4877.300	-36.68	≤-21.20	58.52	≤74	PASS
				Peak	5150.000	-39.62	≤-21.20	55.58	≤74	PASS
		High	5240	AV	5350.000	-47	≤-41.20	48.20	≤54	PASS
				AV	5354.400	-46.92	≤-41.20	48.28	≤54	PASS
				AV	5460.000	-47.57	≤-41.20	47.63	≤54	PASS
				Peak	5350.000	-39.19	≤-21.20	56.01	≤74	PASS
				Peak	5360.160	-36.3	≤-21.20	58.90	≤74	PASS
				Peak	5460.000	-38.79	≤-21.20	56.41	≤74	PASS
11N40SIS O	Ant	Low	5190	AV	4500.000	-48.76	≤-41.20	46.44	≤54	PASS
				AV	5149.600	-44.25	≤-41.20	50.95	≤54	PASS
				AV	5150.000	-44.11	≤-41.20	51.09	≤54	PASS
				Peak	4500.000	-40.37	≤-21.20	54.83	≤74	PASS
				Peak	5147.500	-32	≤-21.20	63.20	≤74	PASS
				Peak	5150.000	-33.65	≤-21.20	61.55	≤74	PASS
		High	5230	AV	5350.000	-46.78	≤-41.20	48.42	≤54	PASS
				AV	5351.320	-46.59	≤-41.20	48.61	≤54	PASS
				AV	5460.000	-47.1	≤-41.20	48.10	≤54	PASS
				Peak	5350.000	-38.58	≤-21.20	56.62	≤74	PASS
				Peak	5460.000	-36.77	≤-21.20	58.43	≤74	PASS



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11AC20SI SO	Ant	Low	5180	AV	4500.000	-49.06	≤-41.20	46.14	≤54	PASS
				AV	4816.400	-46.94	≤-41.20	48.26	≤54	PASS
				AV	5150.000	-47.39	≤-41.20	47.81	≤54	PASS
				Peak	4500.000	-40.64	≤-21.20	54.56	≤74	PASS
				Peak	4808.000	-36.47	≤-21.20	58.73	≤74	PASS
				Peak	5150.000	-38.74	≤-21.20	56.46	≤74	PASS
		High	5240	AV	5350.000	-47.14	≤-41.20	48.06	≤54	PASS
				AV	5378.640	-46.9	≤-41.20	48.30	≤54	PASS
				AV	5460.000	-47.51	≤-41.20	47.69	≤54	PASS
				Peak	5350.000	-38.57	≤-21.20	56.63	≤74	PASS
				Peak	5369.760	-36.59	≤-21.20	58.61	≤74	PASS
				Peak	5460.000	-39.1	≤-21.20	56.10	≤74	PASS
11AC40SI SO	Ant	Low	5190	AV	4500.000	-48.72	≤-41.20	46.48	≤54	PASS
				AV	5149.600	-43.72	≤-41.20	51.48	≤54	PASS
				AV	5150.000	-43.14	≤-41.20	52.06	≤54	PASS
				Peak	4500.000	-39.87	≤-21.20	55.33	≤74	PASS
				Peak	5148.900	-33.09	≤-21.20	62.11	≤74	PASS
				Peak	5150.000	-34.41	≤-21.20	60.79	≤74	PASS
		High	5230	AV	5350.000	-46.84	≤-41.20	48.36	≤54	PASS
				AV	5354.440	-46.46	≤-41.20	48.74	≤54	PASS
				AV	5460.000	-46.86	≤-41.20	48.34	≤54	PASS
				Peak	5350.000	-38.57	≤-21.20	56.63	≤74	PASS
				Peak	5416.580	-36.39	≤-21.20	58.81	≤74	PASS
				Peak	5460.000	-39.1	≤-21.20	56.10	≤74	PASS
11AC80SI SO	Ant	Low	5210	AV	4500.000	-48.65	≤-41.20	46.55	≤54	PASS
				AV	5149.500	-42.2	≤-41.20	53.00	≤54	PASS
				AV	5150.000	-42.36	≤-41.20	52.84	≤54	PASS
				Peak	4500.000	-40.12	≤-21.20	55.08	≤74	PASS
				Peak	5149.500	-33.47	≤-21.20	61.73	≤74	PASS
				Peak	5150.000	-34.62	≤-21.20	60.58	≤74	PASS
		High	5210	AV	5350.000	-46.64	≤-41.20	48.56	≤54	PASS
				AV	5381.320	-46.21	≤-41.20	48.99	≤54	PASS
				AV	5460.000	-46.8	≤-41.20	48.40	≤54	PASS
				Peak	5350.000	-37.93	≤-21.20	57.27	≤74	PASS
				Peak	5429.480	-36.47	≤-21.20	58.73	≤74	PASS
				Peak	5460.000	-38.83	≤-21.20	56.37	≤74	PASS

Note:

1. The Antenna Gain is compensated in the graph.
2. For transmitters operating in 5150-5350 GHz band and 5470-5725 GHz band: The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak



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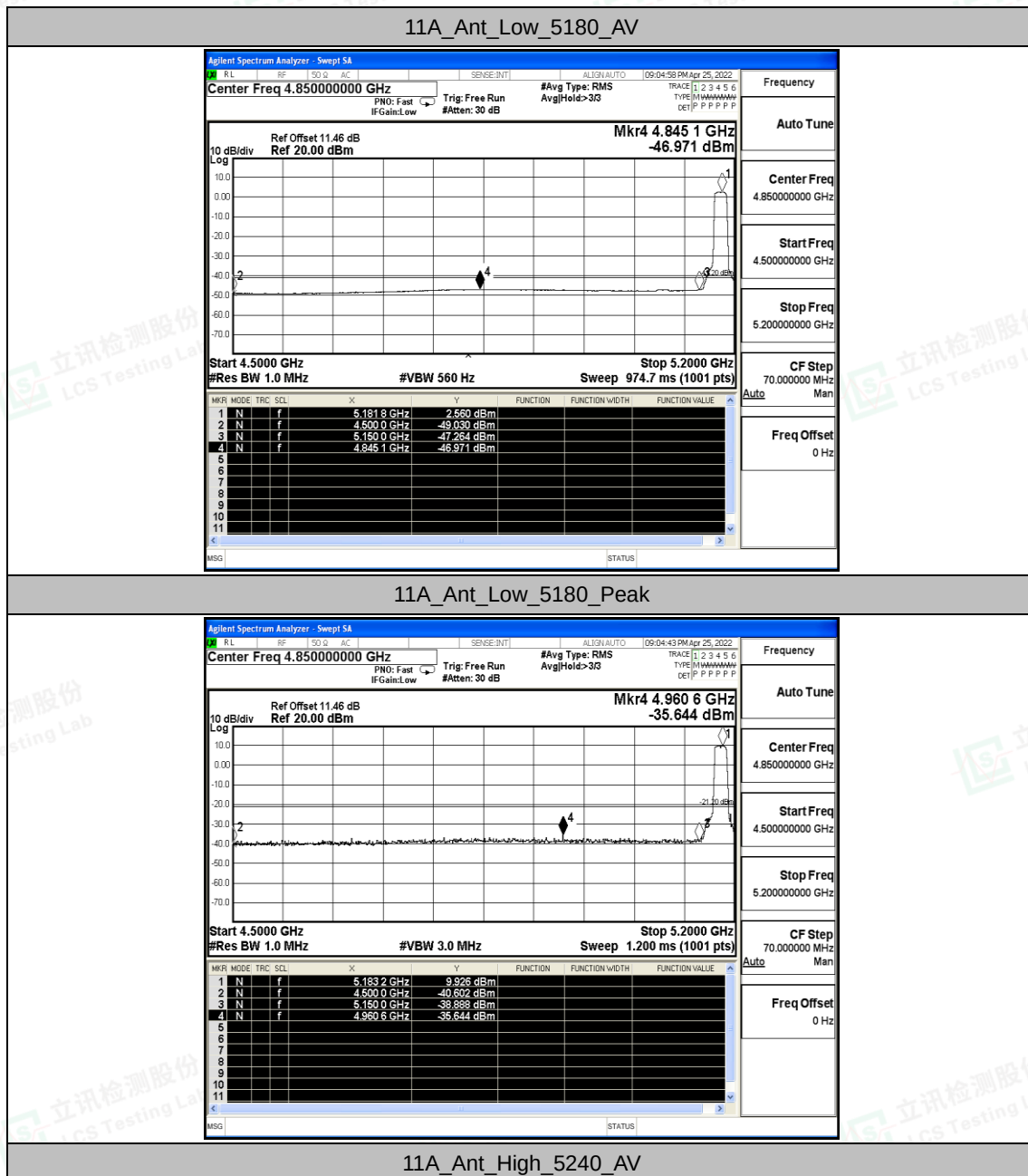


detector is 20dB above the limit of average detector in dBm.





Test Graphs

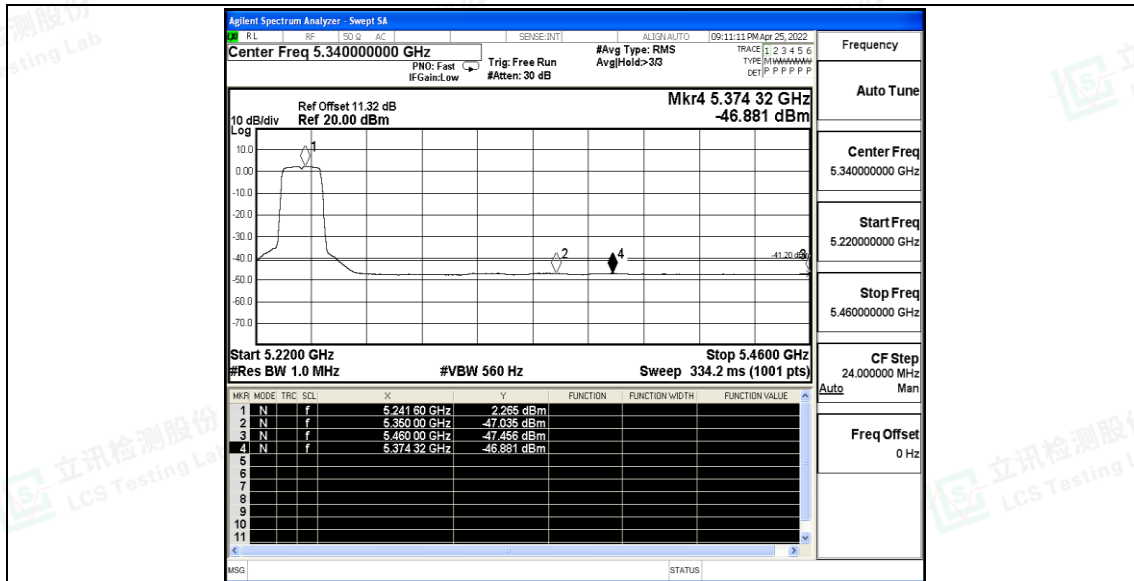


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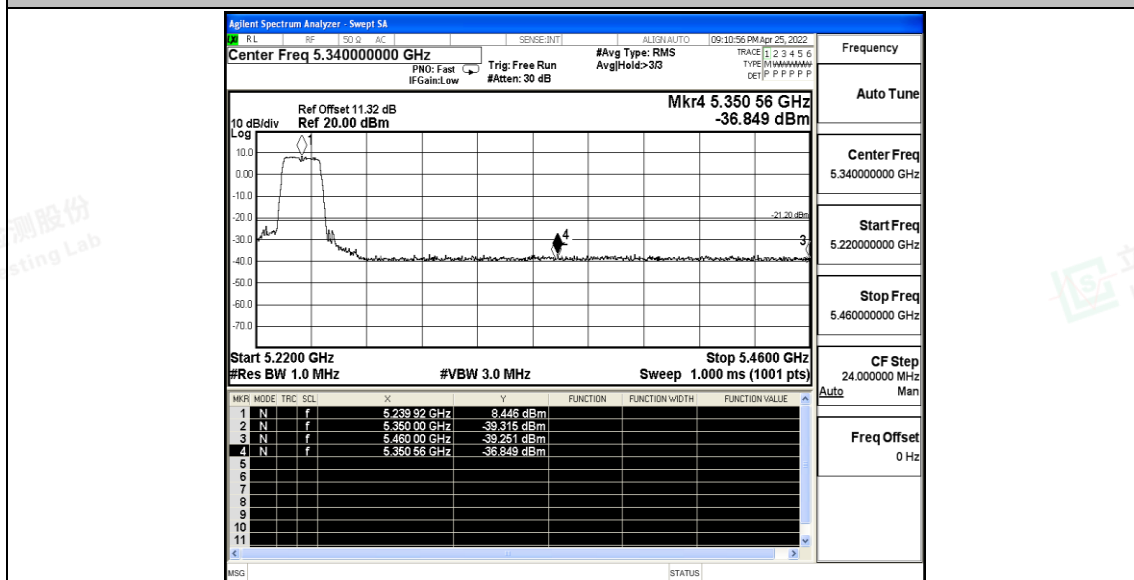
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11A_Ant_High_5240_Peak



11N20SISO_Ant_Low_5180_AV

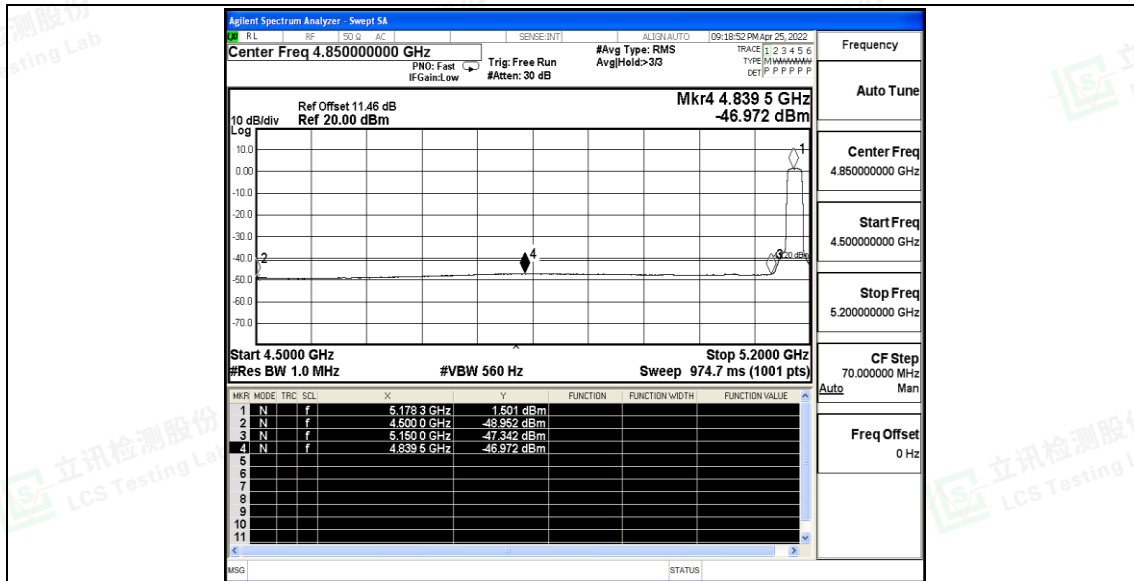


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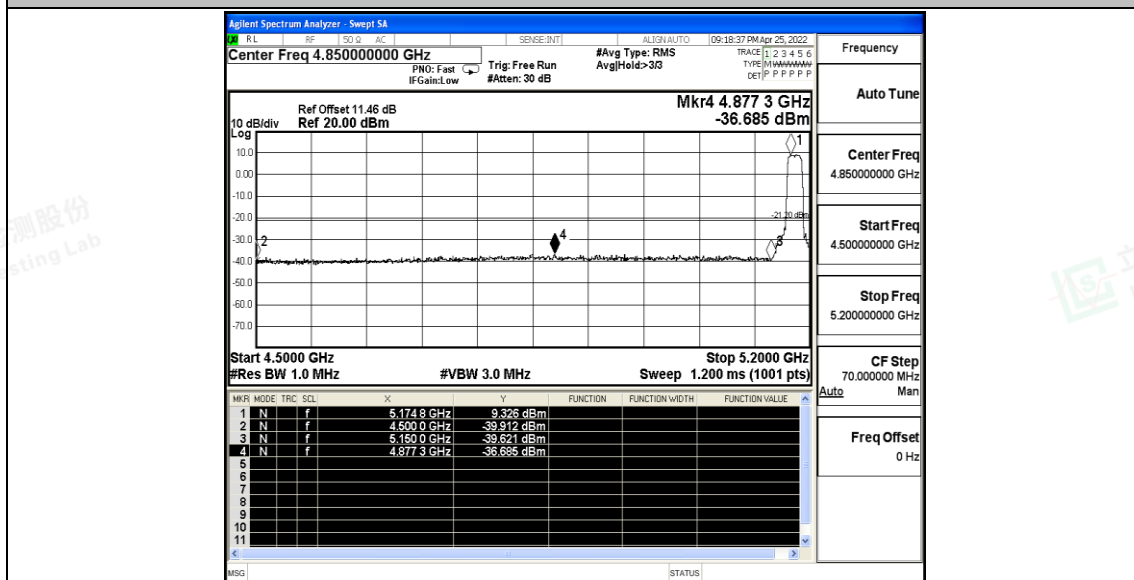
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11N20SISO_Ant_Low_5180_Peak



11N20SISO_Ant_High_5240_AV

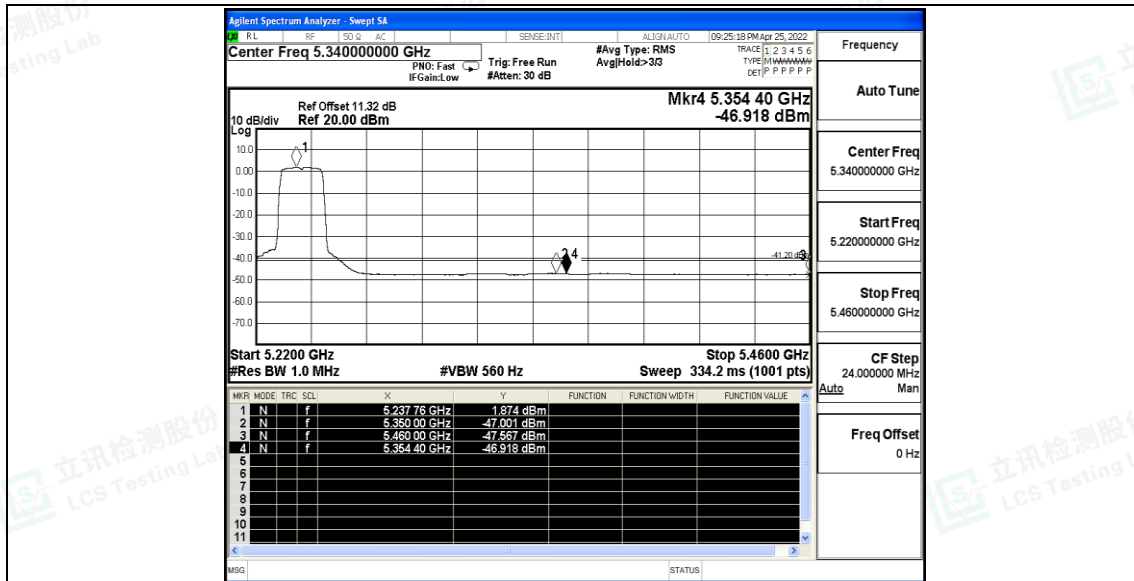


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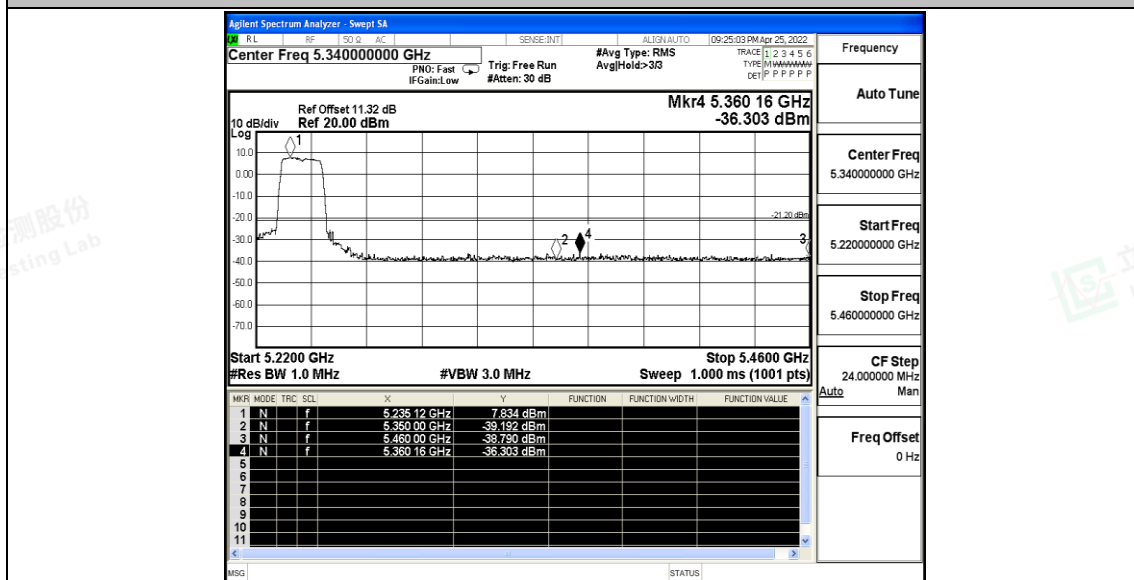
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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11N20SISO_Ant_High_5240_Peak



11N40SISO_Ant_Low_5190_AV

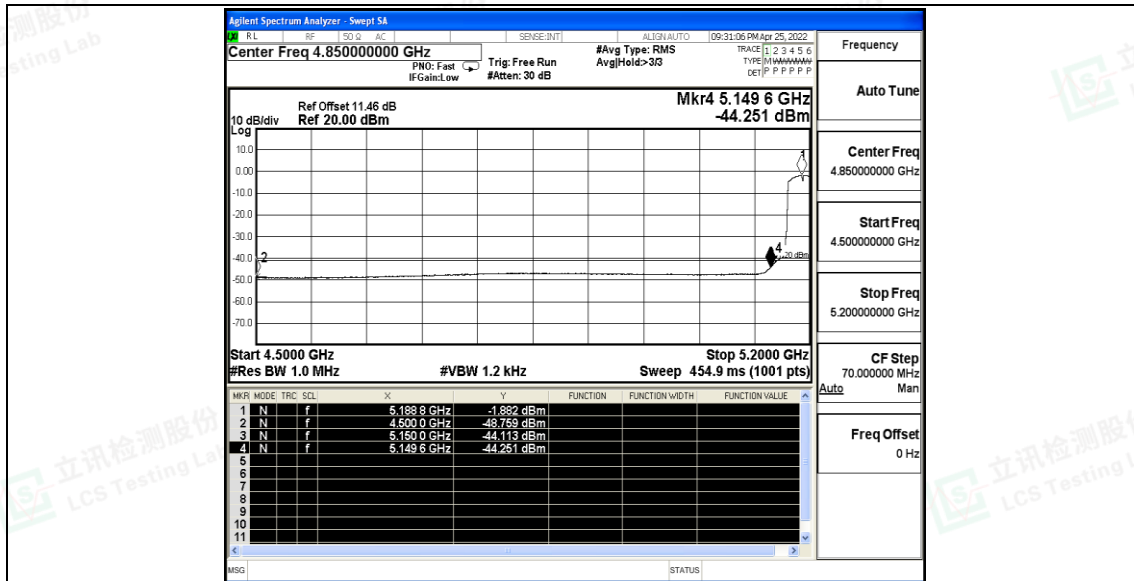


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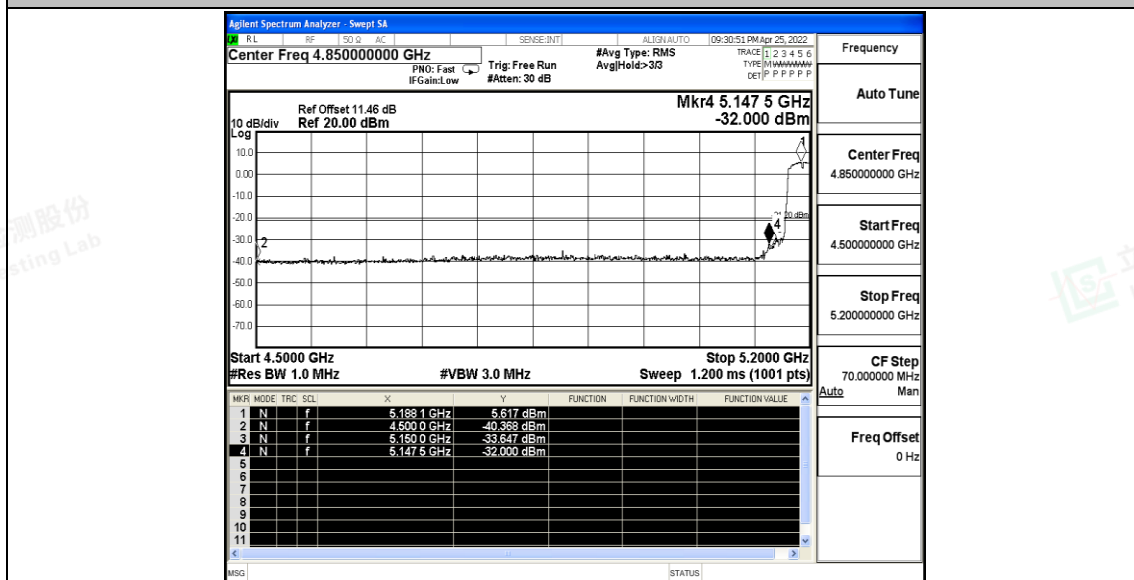
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11N40SISO_Ant_Low_5190_Peak



11N40SISO_Ant_High_5230_AV

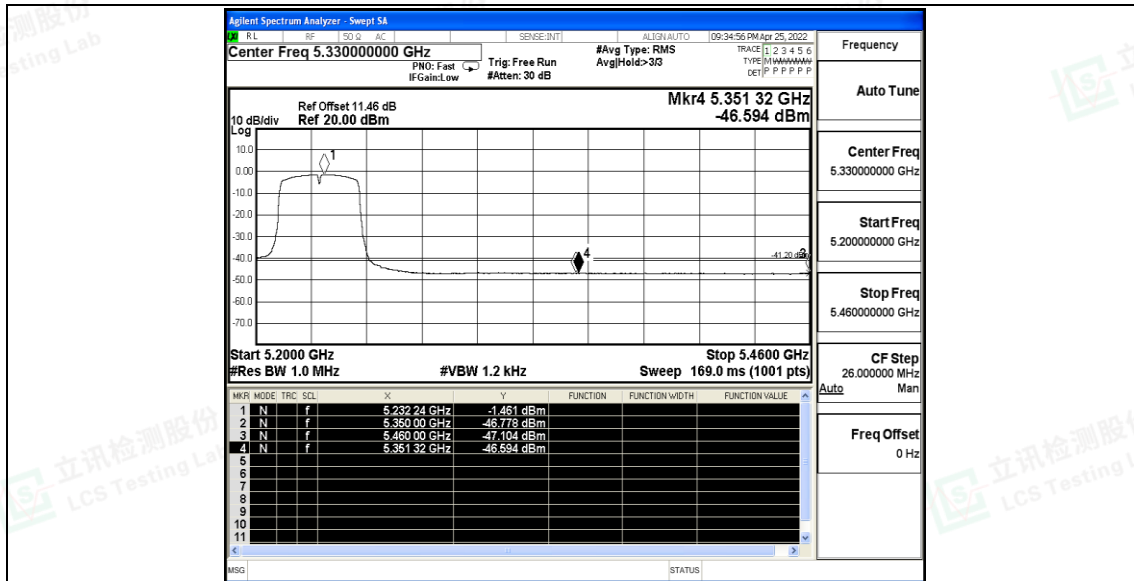


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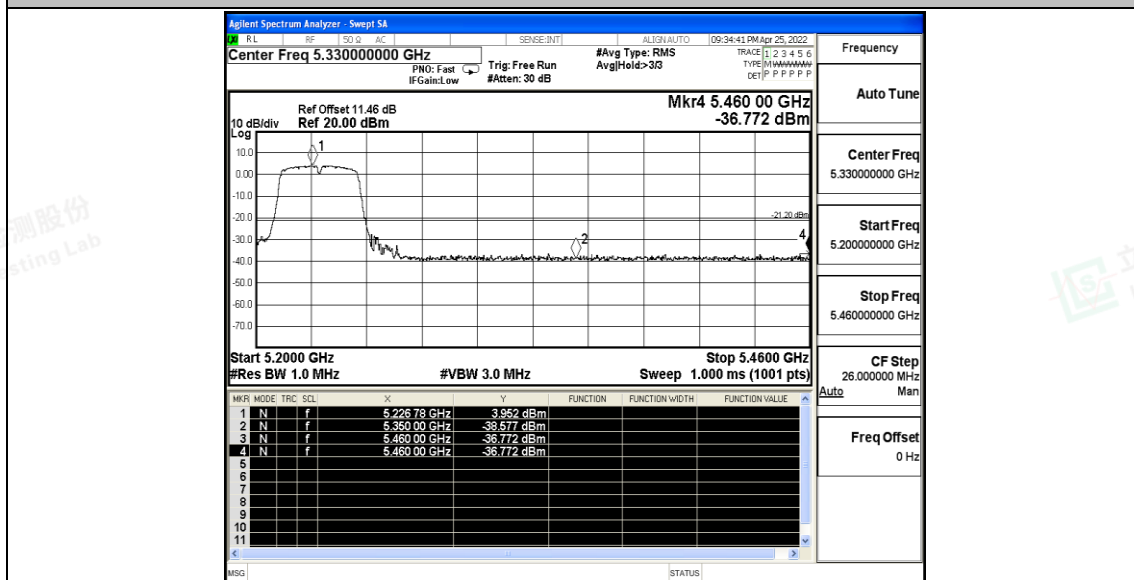
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11N40SISO_Ant_High_5230_Peak



11AC20SISO_Ant_Low_5180_AV

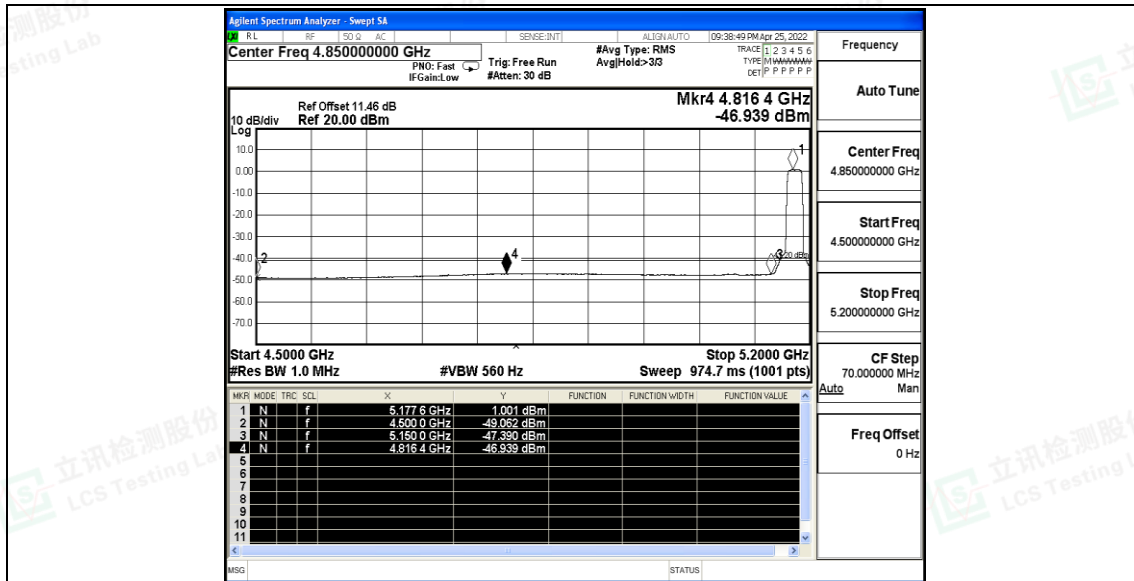


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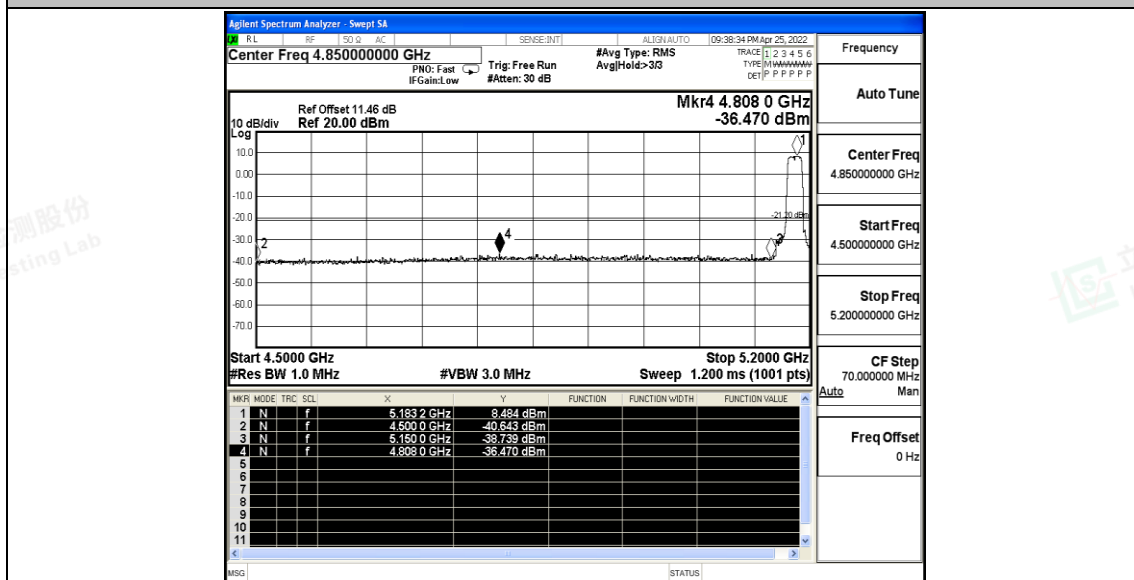
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11AC20SISO_Ant_Low_5180_Peak



11AC20SISO_Ant_High_5240_AV

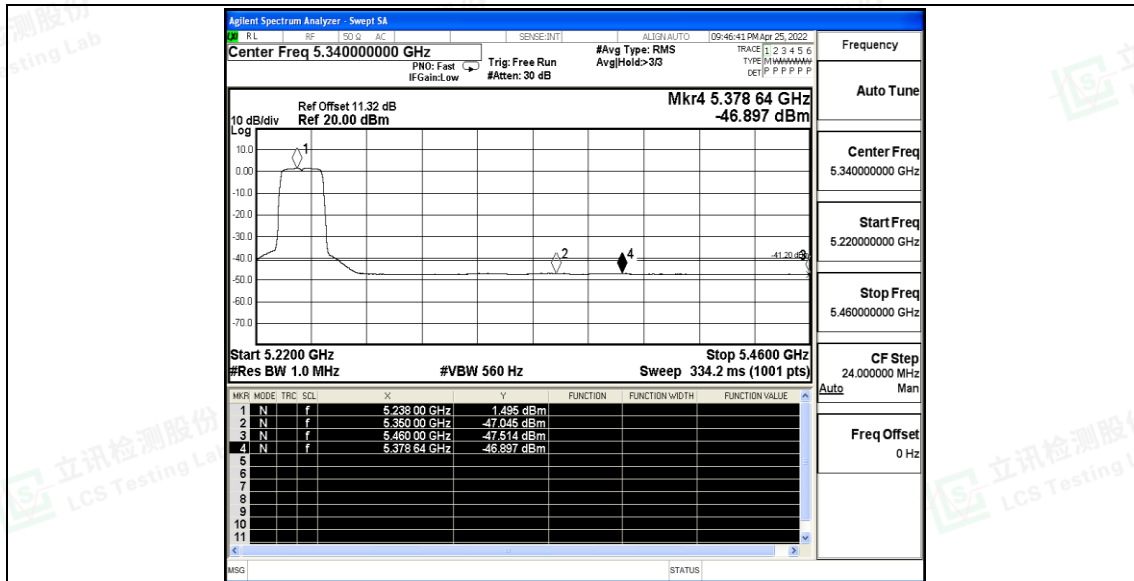


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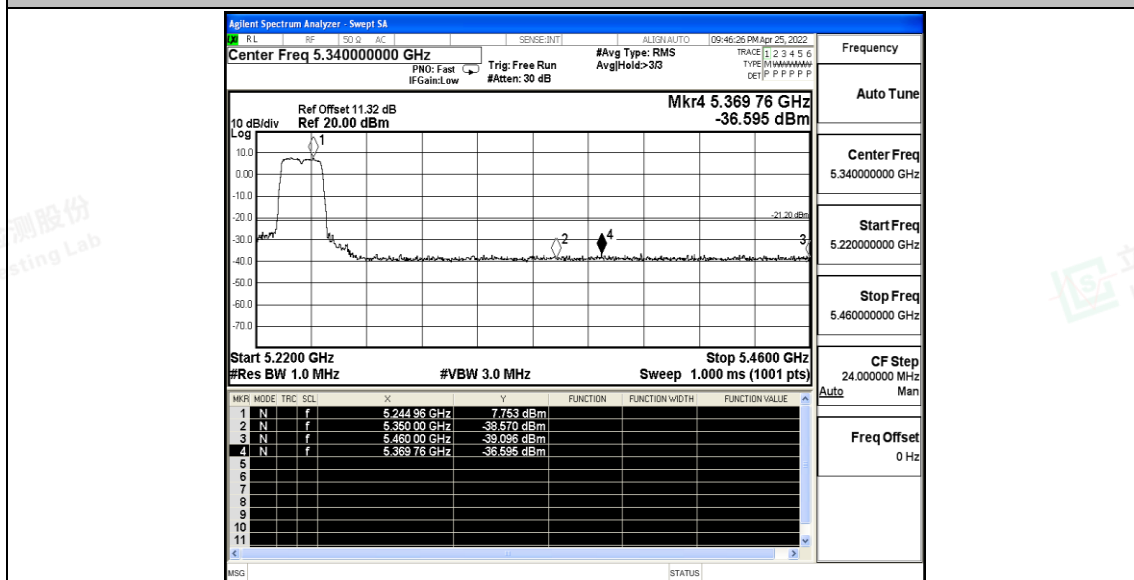
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11AC20SISO_Ant_High_5240_Peak



11AC40SISO_Ant_Low_5190_AV

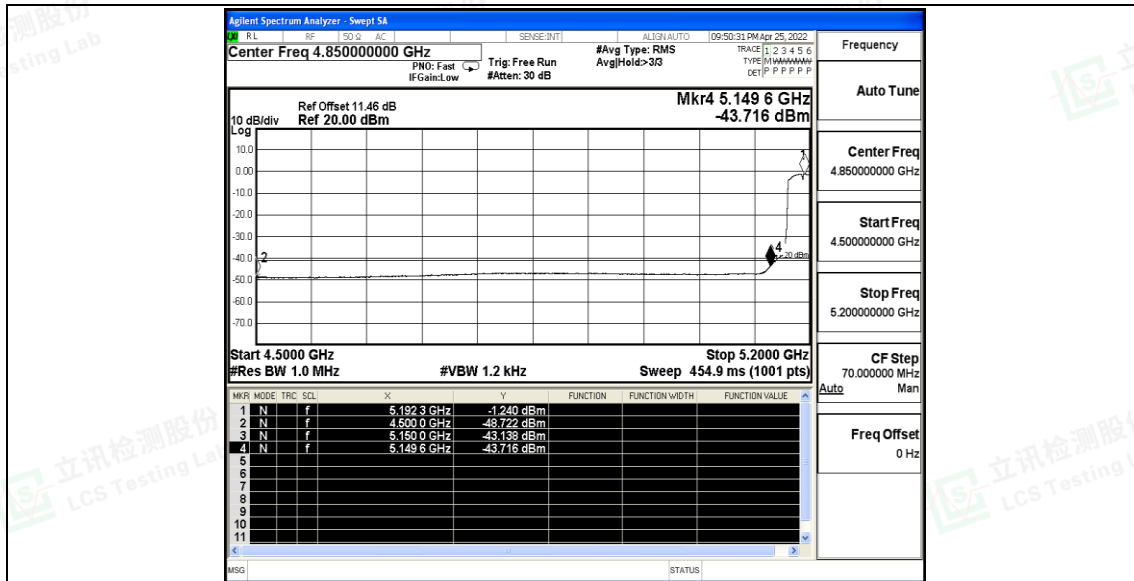


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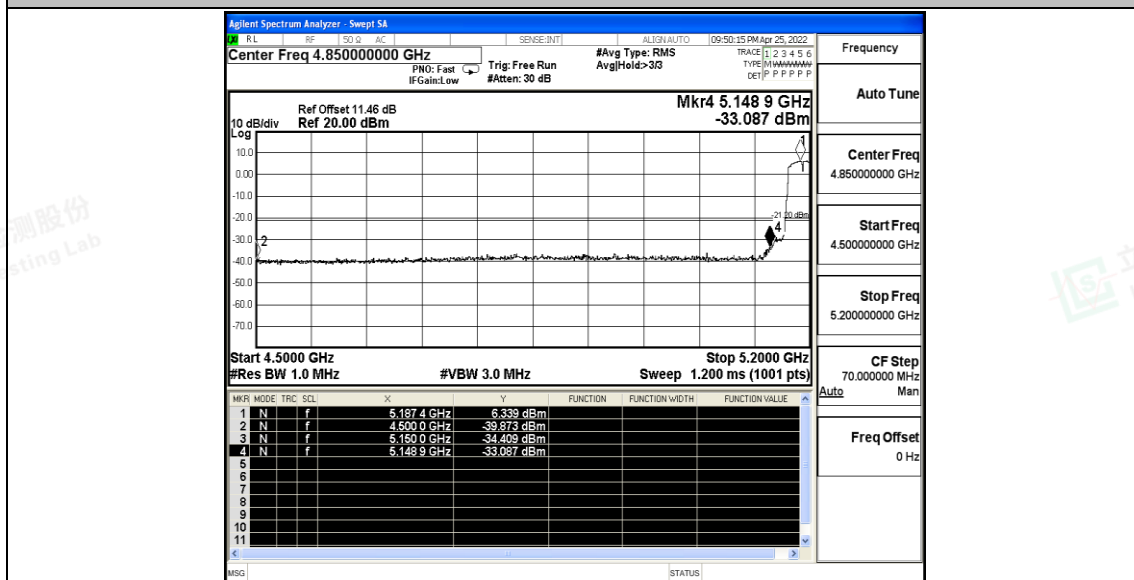
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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11AC40SISO_Ant_Low_5190_Peak



11AC40SISO_Ant_High_5230_AV

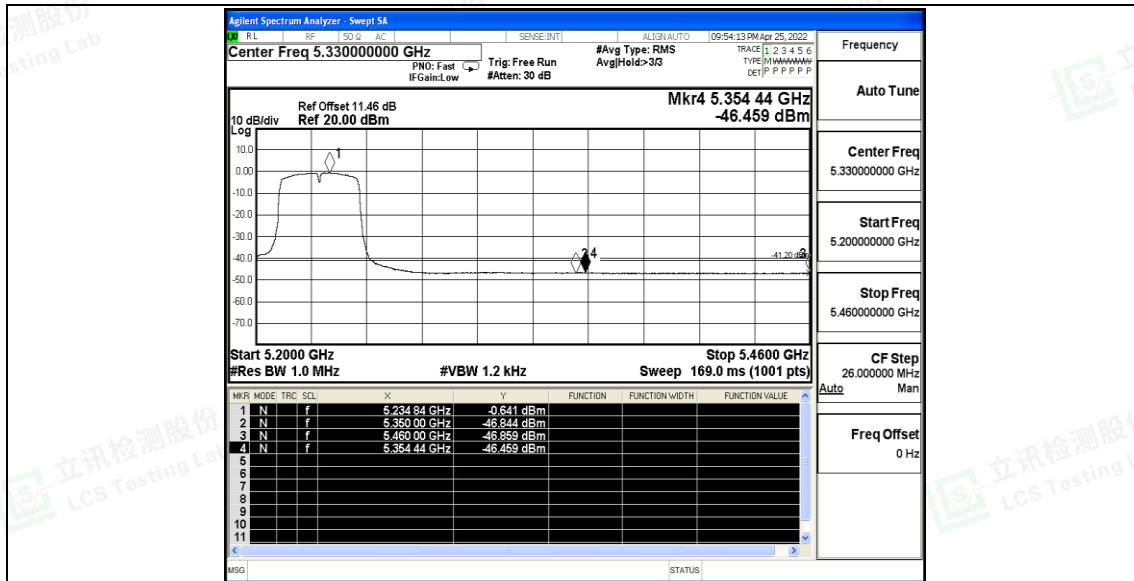


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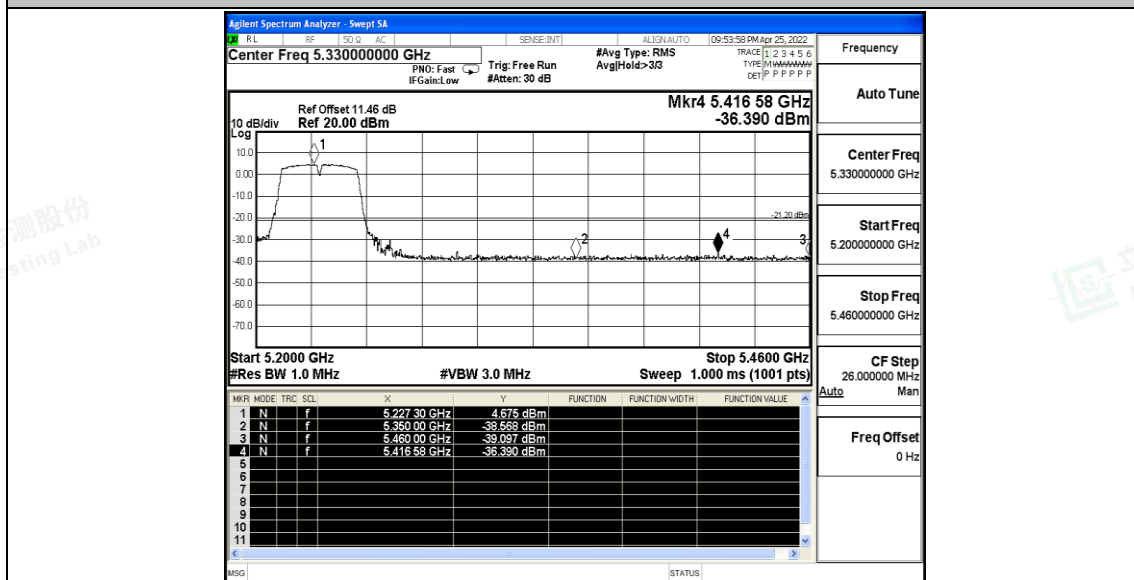
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11AC40SISO_Ant_High_5230_Peak



11AC80SISO_Ant_Low_5210_AV

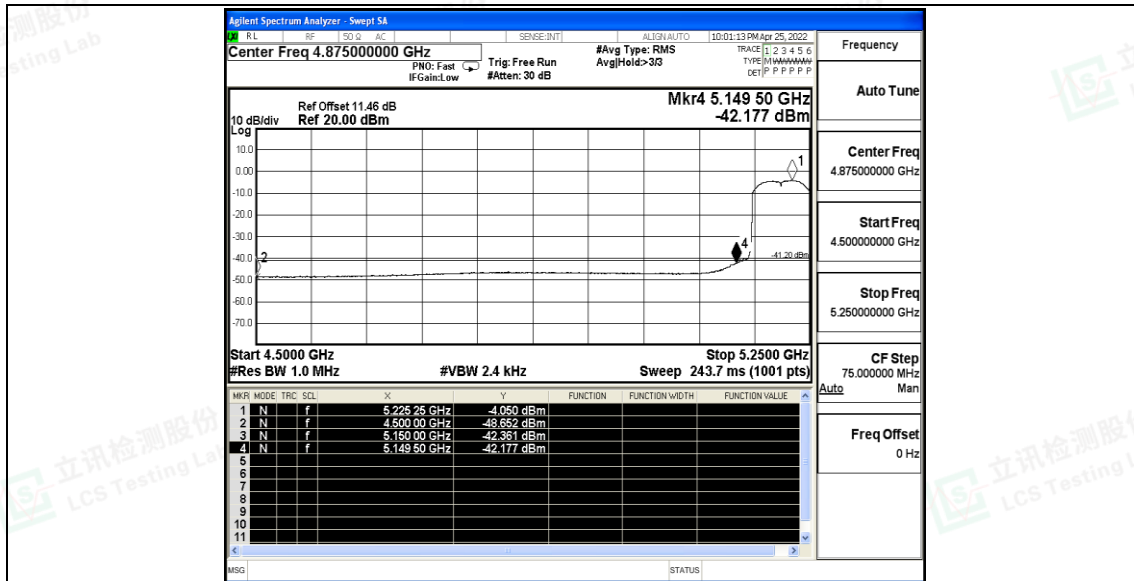


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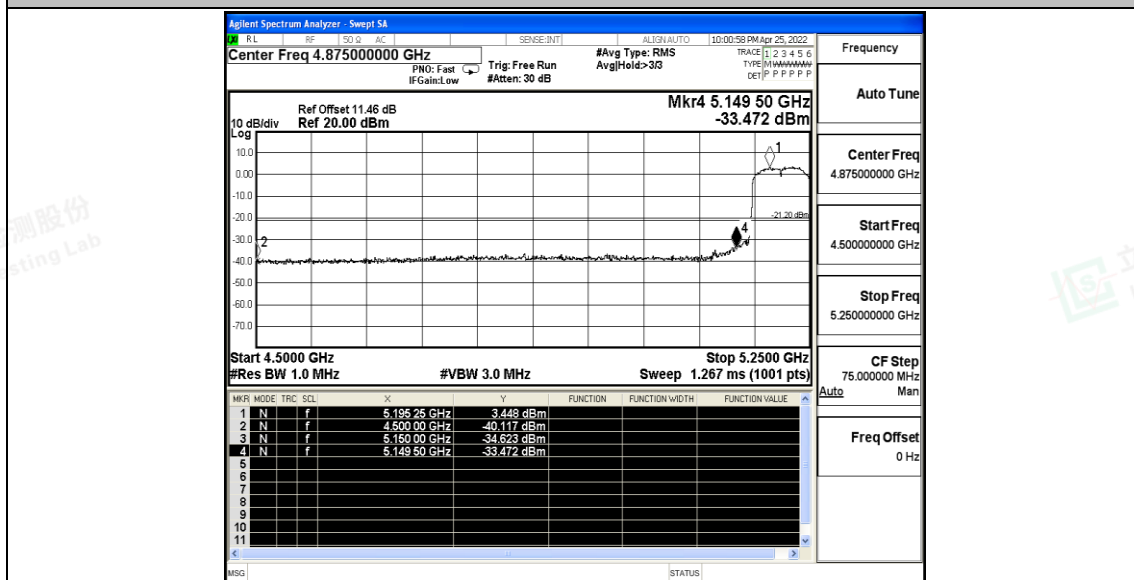
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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11AC80SISO_Ant_Low_5210_Peak



11AC80SISO_Ant_High_5210_AV

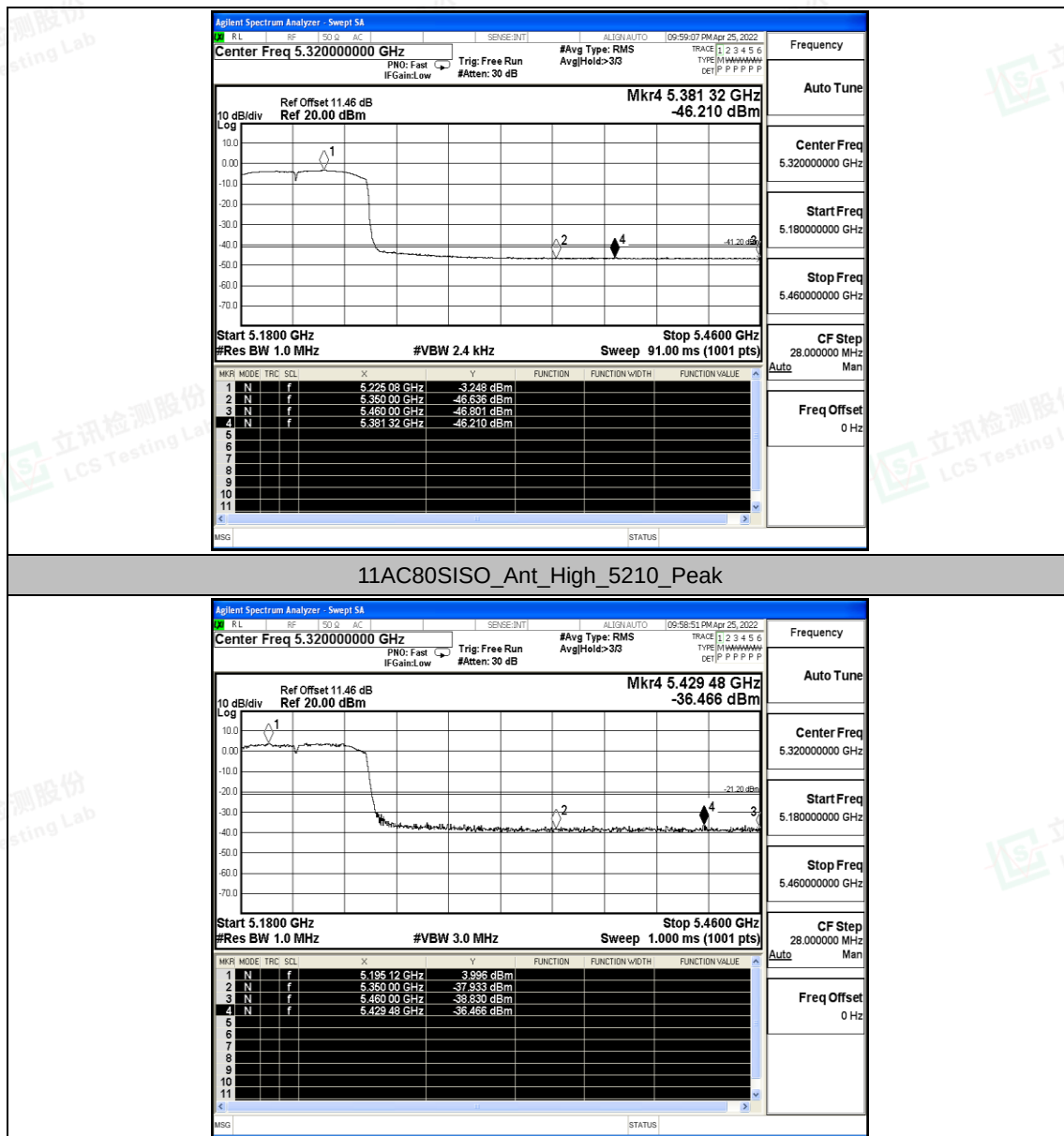


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D.5 Frequency Stability

Test Result

Voltage								
TestMode	Antenna	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
11AC20S ISO	Ant	5180	NV	NT	-4000	-0.772201	20	PASS
			LV	NT	-4000	-0.772201	20	PASS
			HV	NT	-4000	-0.772201	20	PASS
		5220	NV	NT	-3000	-0.574713	20	PASS
			LV	NT	-3000	-0.574713	20	PASS
			HV	NT	-3000	-0.574713	20	PASS
		5240	NV	NT	-4000	-0.763359	20	PASS
			LV	NT	-3000	-0.572519	20	PASS
			HV	NT	-4000	-0.763359	20	PASS
11AC40S ISO	Ant	5190	NV	NT	-3000	-0.578035	20	PASS
			LV	NT	-3000	-0.578035	20	PASS
			HV	NT	-3000	-0.578035	20	PASS
		5230	NV	NT	-3000	-0.573614	20	PASS
			LV	NT	-3000	-0.573614	20	PASS
			HV	NT	-3000	-0.573614	20	PASS
11AC80S ISO	Ant	5210	NV	NT	-3000	-0.575816	20	PASS
			LV	NT	-3000	-0.575816	20	PASS
			HV	NT	-3000	-0.575816	20	PASS

Temperature								
TestMode	Antenna	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
11AC20S ISO	Ant	5180	NV	-30	-4000	-0.772201	20	PASS
			NV	-20	-4000	-0.772201	20	PASS
			NV	-10	-4000	-0.772201	20	PASS
			NV	0	-4000	-0.772201	20	PASS
			NV	10	-4000	-0.772201	20	PASS
			NV	20	-3000	-0.579151	20	PASS
			NV	30	-4000	-0.772201	20	PASS
			NV	40	-4000	-0.772201	20	PASS
			NV	50	-3000	-0.579151	20	PASS
		5220	NV	-30	-3000	-0.574713	20	PASS
			NV	-20	-3000	-0.574713	20	PASS



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			NV	-10	-3000	-0.574713	20	PASS
			NV	0	-3000	-0.574713	20	PASS
			NV	10	-3000	-0.574713	20	PASS
			NV	20	-3000	-0.574713	20	PASS
			NV	30	-3000	-0.574713	20	PASS
			NV	40	-3000	-0.574713	20	PASS
			NV	50	-3000	-0.574713	20	PASS
		5240	NV	-30	-3000	-0.572519	20	PASS
			NV	-20	-3000	-0.572519	20	PASS
			NV	-10	-3000	-0.572519	20	PASS
			NV	0	-3000	-0.572519	20	PASS
			NV	10	-3000	-0.572519	20	PASS
			NV	20	-3000	-0.572519	20	PASS
			NV	30	-3000	-0.572519	20	PASS
			NV	40	-3000	-0.572519	20	PASS
			NV	50	-3000	-0.572519	20	PASS
11AC40S ISO	Ant	5190	NV	-30	-3000	-0.578035	20	PASS
			NV	-20	-4000	-0.770713	20	PASS
			NV	-10	-3000	-0.578035	20	PASS
			NV	0	-3000	-0.578035	20	PASS
			NV	10	-3000	-0.578035	20	PASS
			NV	20	-3000	-0.578035	20	PASS
			NV	30	-3000	-0.578035	20	PASS
			NV	40	-3000	-0.578035	20	PASS
			NV	50	-3000	-0.578035	20	PASS
		5230	NV	-30	-3000	-0.573614	20	PASS
			NV	-20	-3000	-0.573614	20	PASS
			NV	-10	-3000	-0.573614	20	PASS
			NV	0	-3000	-0.573614	20	PASS
			NV	10	-3000	-0.573614	20	PASS
			NV	20	-3000	-0.573614	20	PASS
			NV	30	-3000	-0.573614	20	PASS
			NV	40	-3000	-0.573614	20	PASS
			NV	50	-3000	-0.573614	20	PASS
11AC80S ISO	Ant	5210	NV	-30	-3000	-0.575816	20	PASS
			NV	-20	-3000	-0.575816	20	PASS
			NV	-10	-3000	-0.575816	20	PASS
			NV	0	-3000	-0.575816	20	PASS
			NV	10	-3000	-0.575816	20	PASS
			NV	20	-3000	-0.575816	20	PASS



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			NV	30	-3000	-0.575816	20	PASS
			NV	40	-3000	-0.575816	20	PASS
			NV	50	-3000	-0.575816	20	PASS



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D.6 Duty Cycle

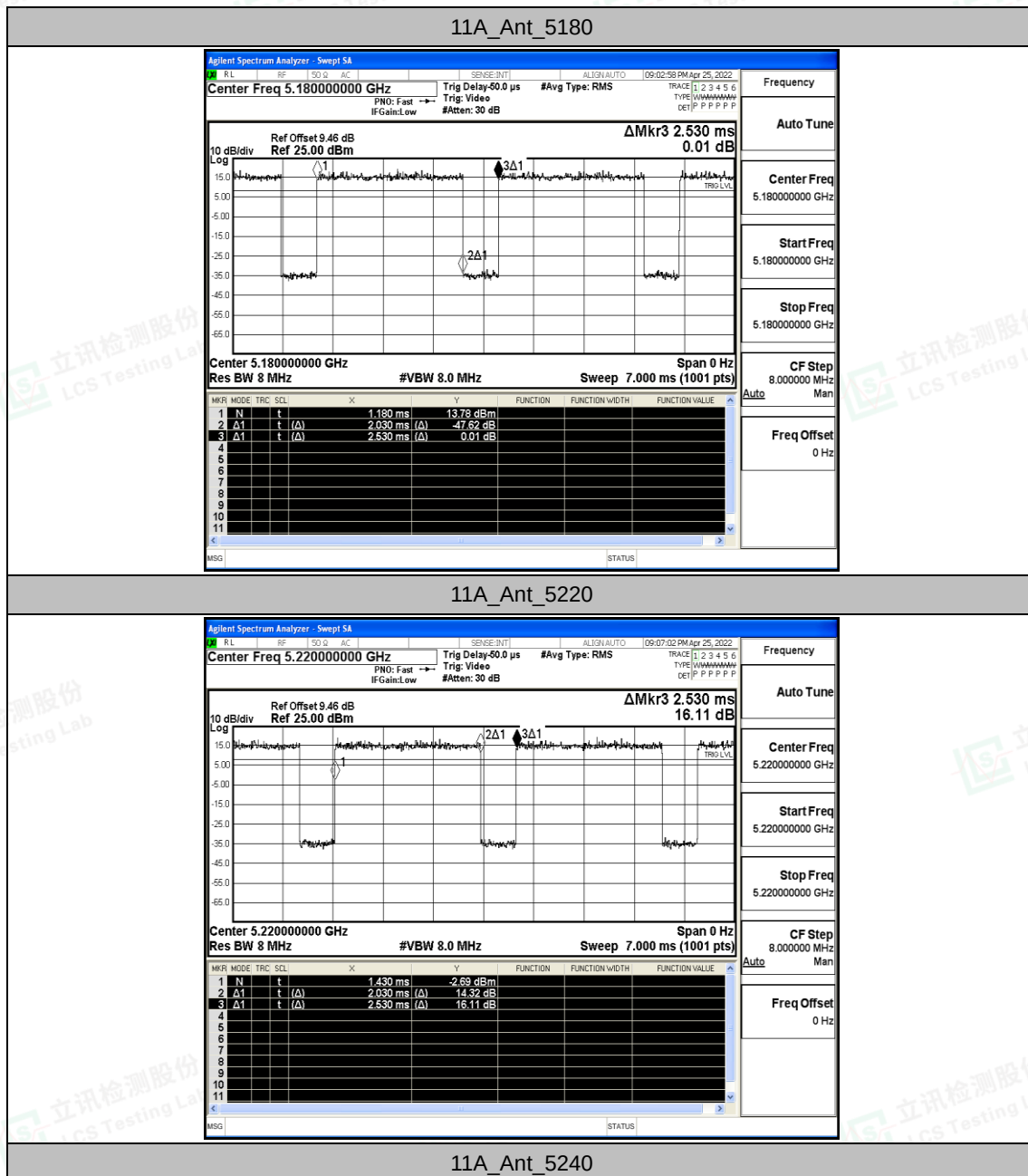
Test Result

TestMode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Limit	Verdict
11A	Ant	5180	2.03	2.53	80.24	---	---
		5220	2.03	2.53	80.24	---	---
		5240	2.02	2.52	80.16	---	---
11N20SISO	Ant	5180	1.88	2.38	78.99	---	---
		5220	1.89	2.40	78.75	---	---
		5240	1.89	2.40	78.75	---	---
11N40SISO	Ant	5190	0.92	1.43	64.34	---	---
		5230	0.92	1.43	64.34	---	---
11AC20SISO	Ant	5180	1.89	2.39	79.08	---	---
		5220	1.89	2.39	79.08	---	---
		5240	1.89	2.39	79.08	---	---
11AC40SISO	Ant	5190	0.94	1.44	65.28	---	---
		5230	0.94	1.44	65.28	---	---
11AC80SISO	Ant	5210	0.45	0.96	46.88	---	---





Test Graphs

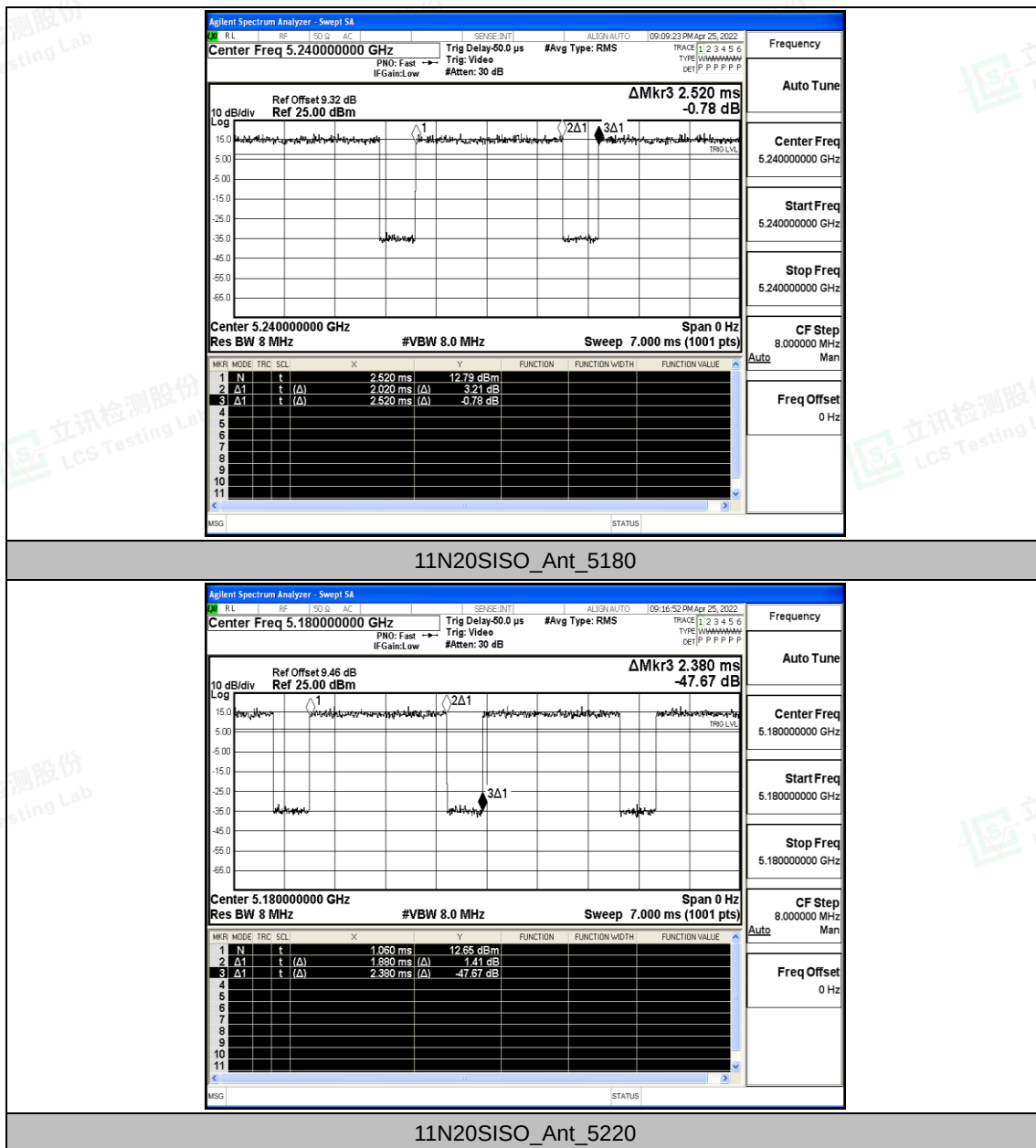


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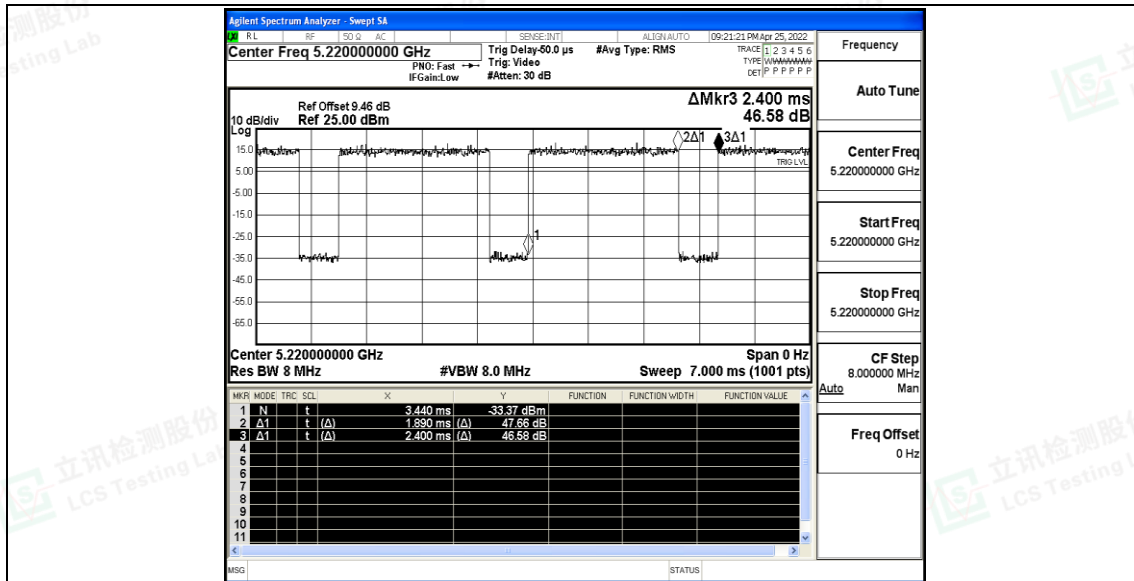


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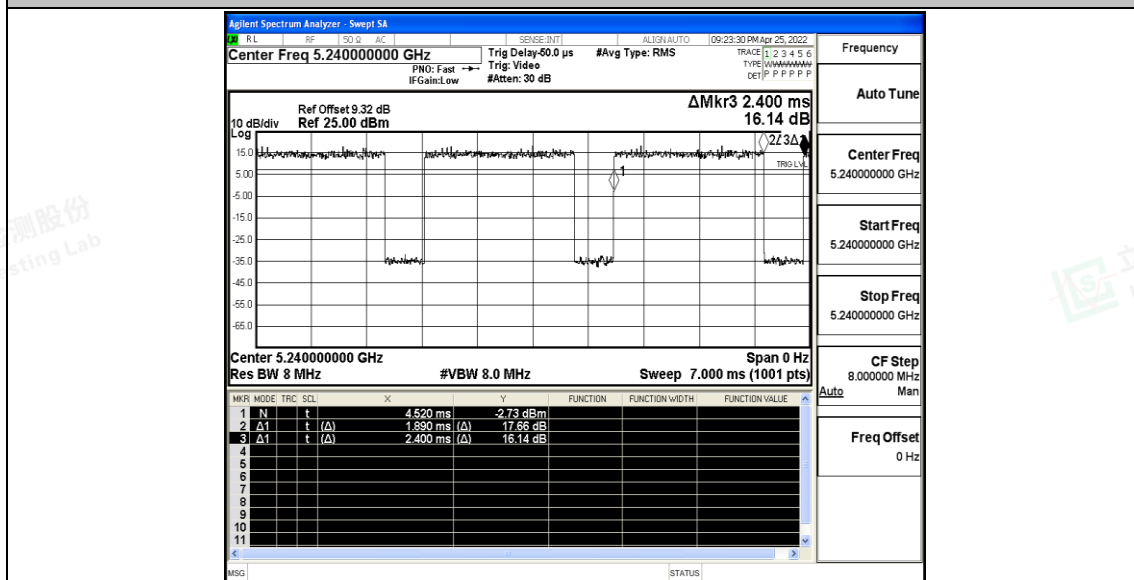
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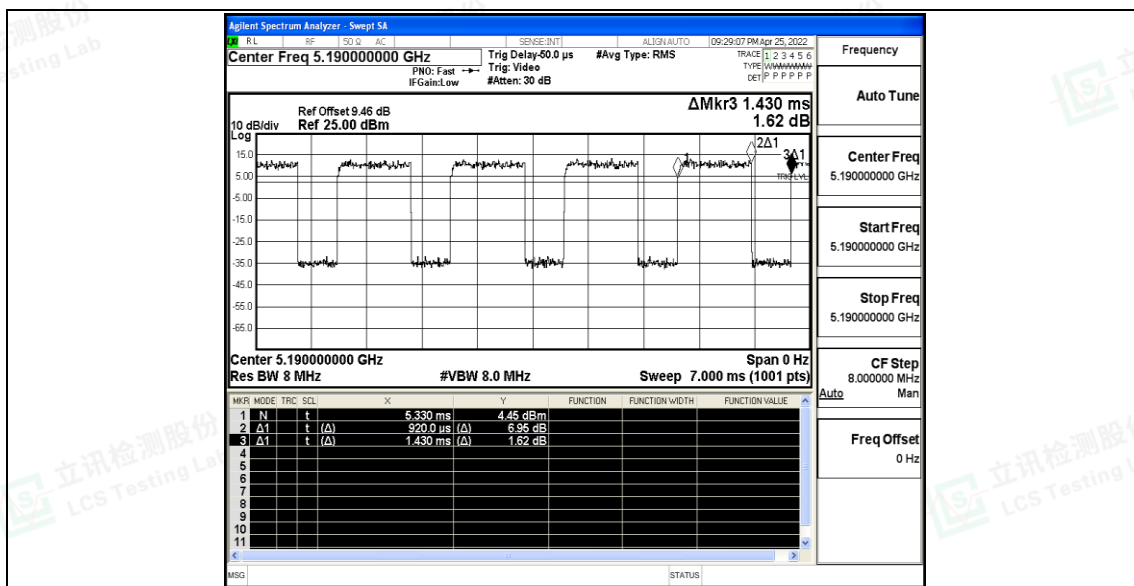


11N20SISO_Ant_5240

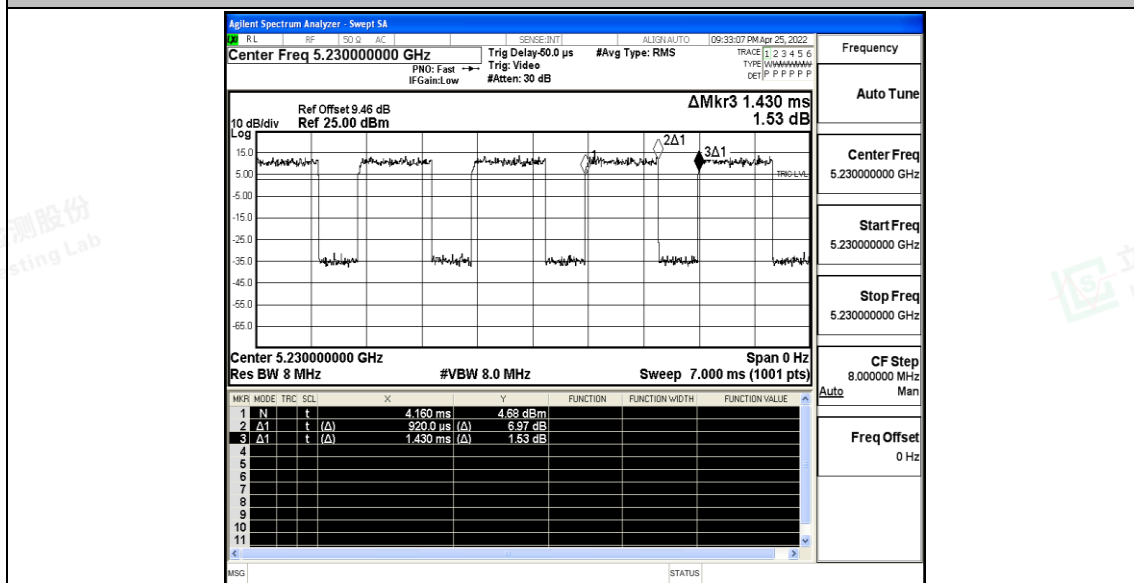


11N40SISO_Ant_5190



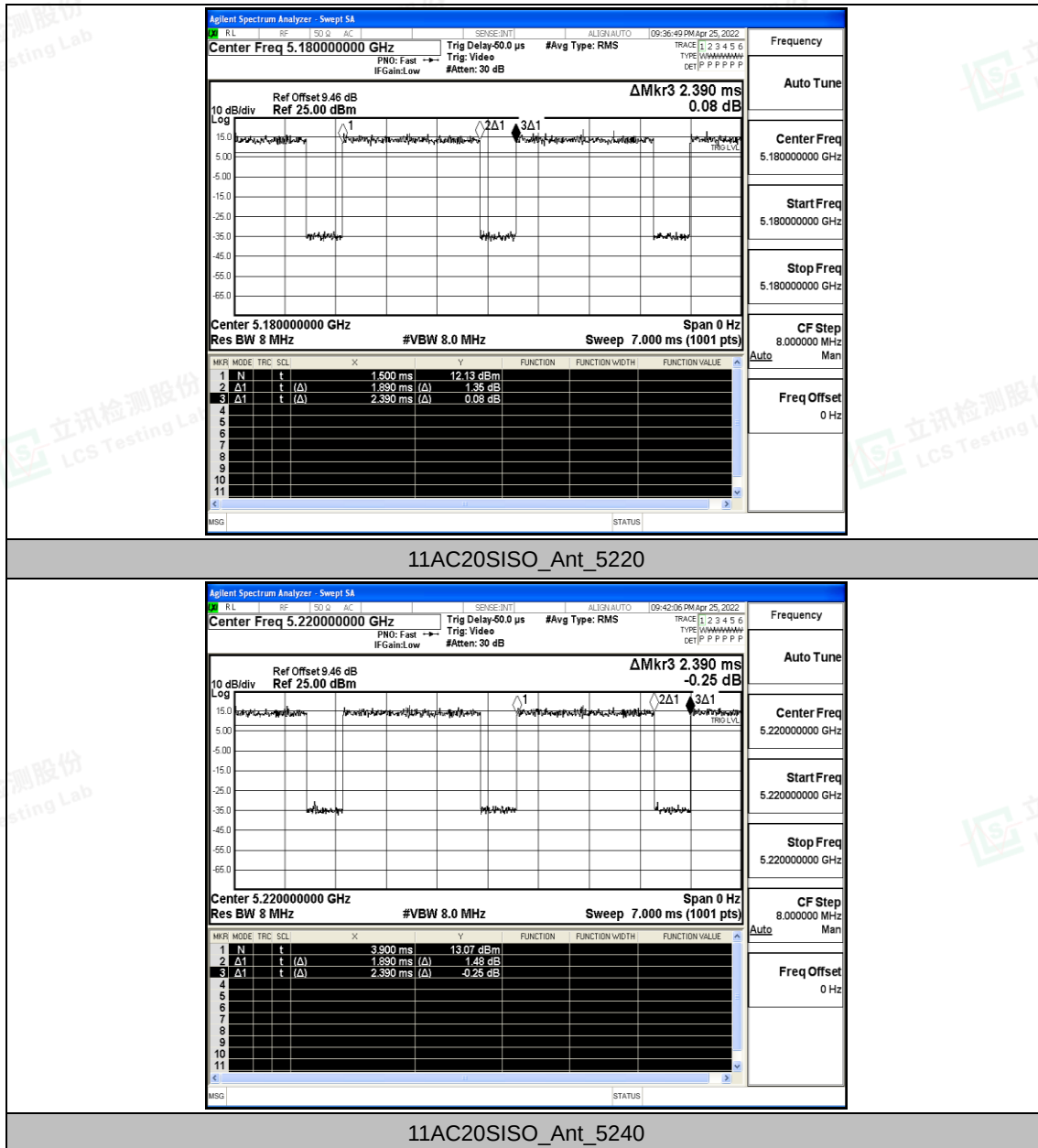


11N40SISO Ant 5230



11AC20SISO Ant 5180



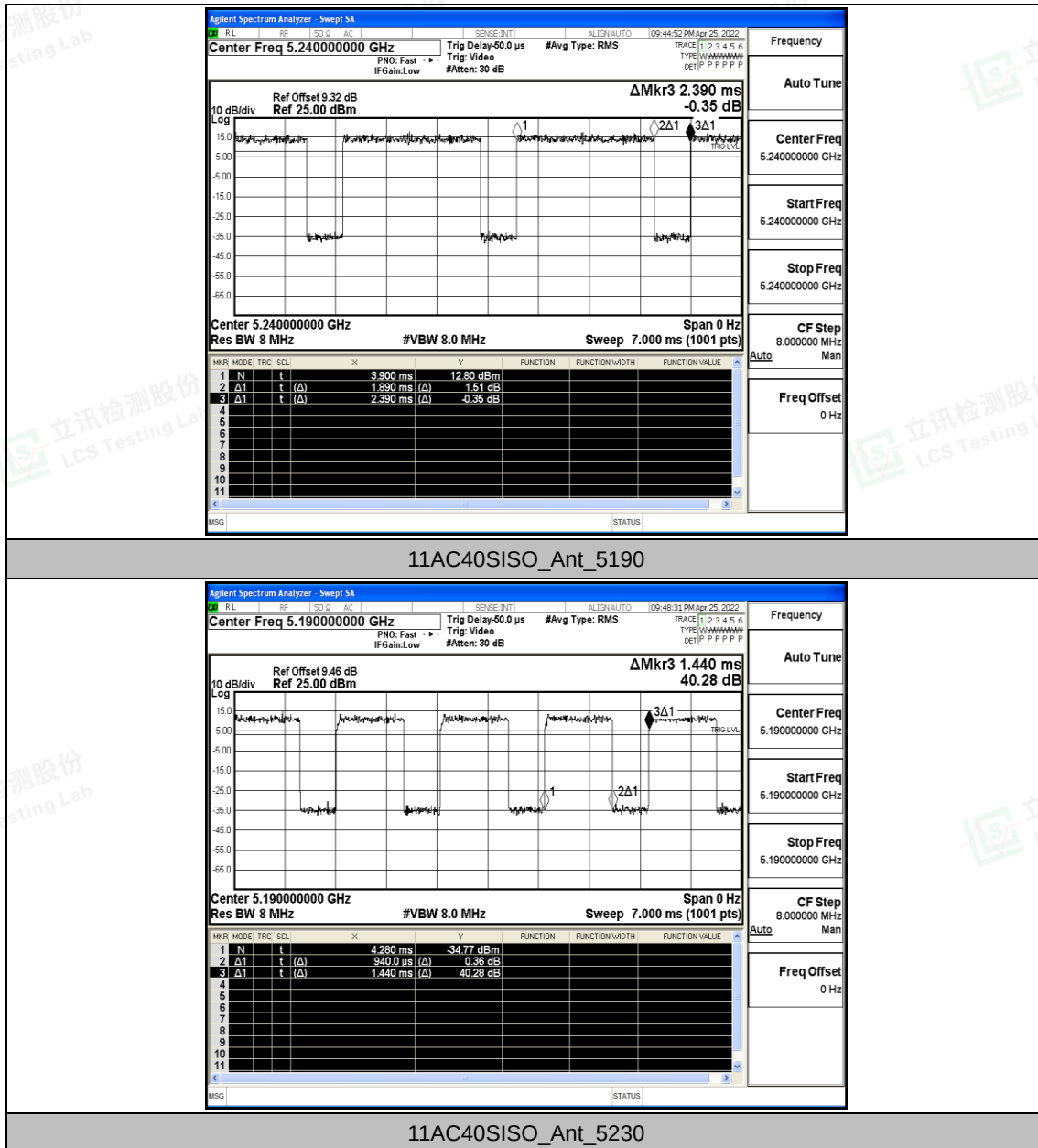


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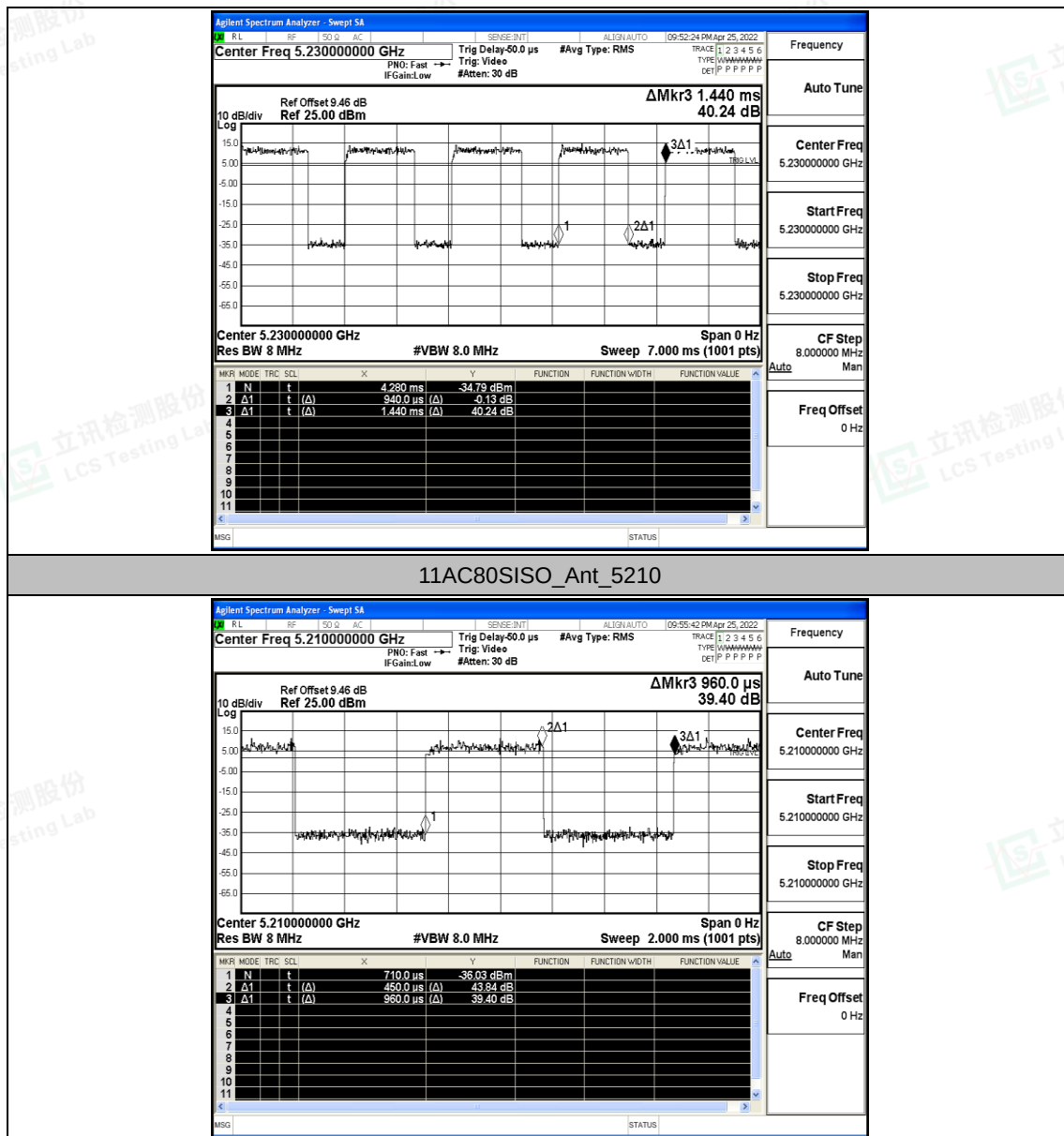


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