



Appendix D

RF Test Data for 5.2G WIFI (Conducted Measurement)

Product Name: Tablet

Test Model: RT1

Environmental Conditions

Temperature:	23.9° C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Ling Zhu
Supervised by:	Li huan





D.1 26dB Bandwidth

Test Result

TestMode	Antenna	Channel	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant	5180	20.040	5170.000	5190.040	---	---
		5220	19.960	5210.000	5229.960	---	---
		5240	20.640	5229.920	5250.560	---	---
11N20SISO	Ant	5180	20.320	5169.840	5190.160	---	---
		5220	20.400	5209.840	5230.240	---	---
		5240	20.560	5229.600	5250.160	---	---
11N40SISO	Ant	5190	40.400	5169.760	5210.160	---	---
		5230	40.640	5209.600	5250.240	---	---
11AC20SISO	Ant	5180	20.320	5169.800	5190.120	---	---
		5220	20.240	5209.880	5230.120	---	---
		5240	20.320	5229.840	5250.160	---	---
11AC40SISO	Ant	5190	40.480	5169.760	5210.240	---	---
		5230	40.640	5209.760	5250.400	---	---
11AC80SISO	Ant	5210	81.120	5169.520	5250.640	---	---





Test Graphs

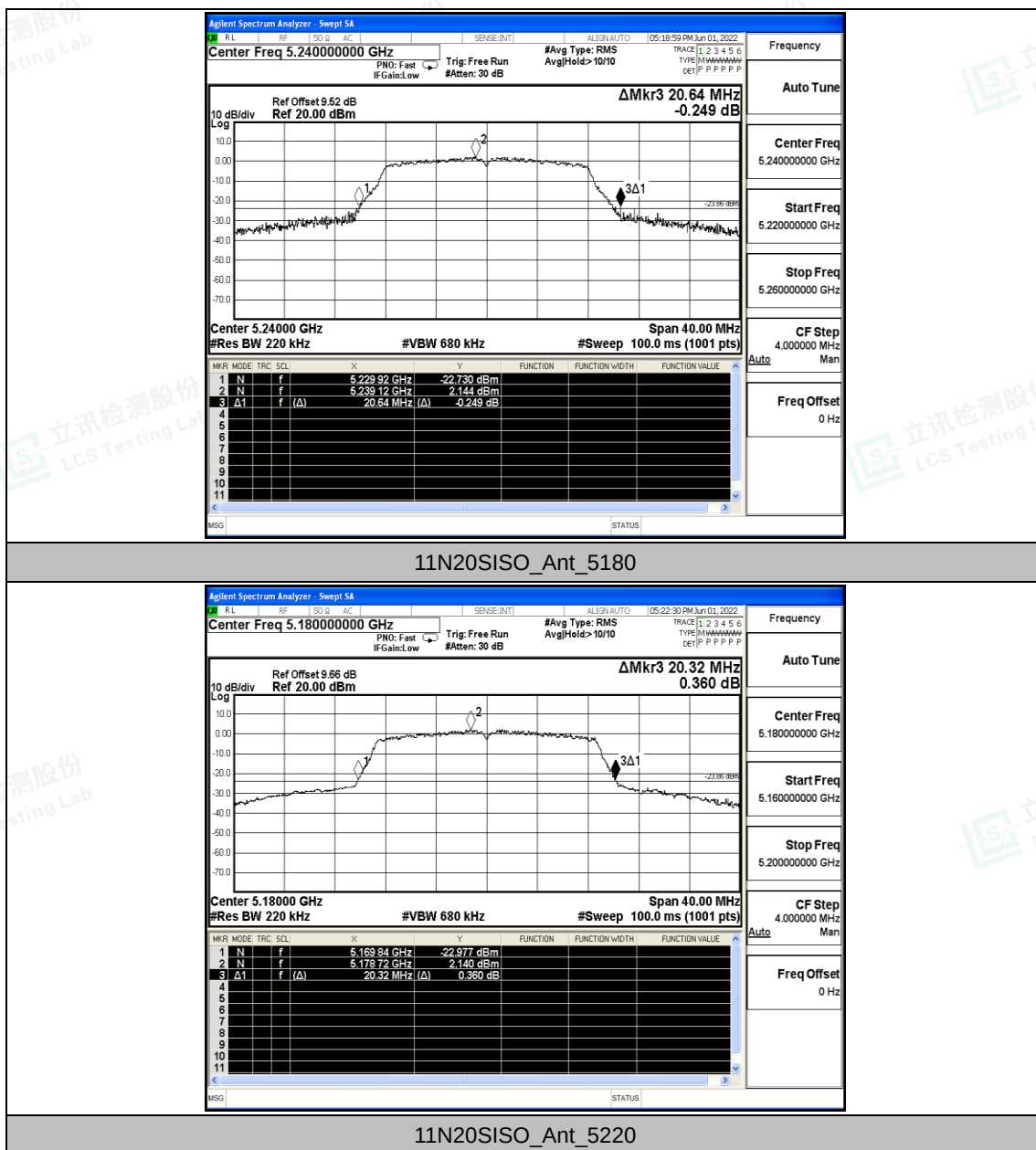


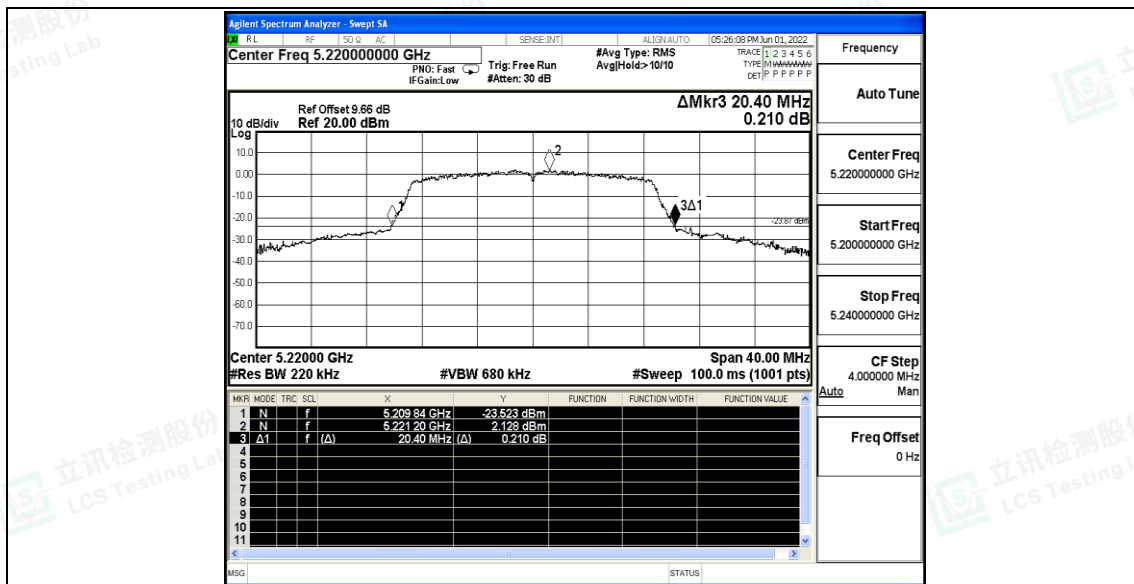
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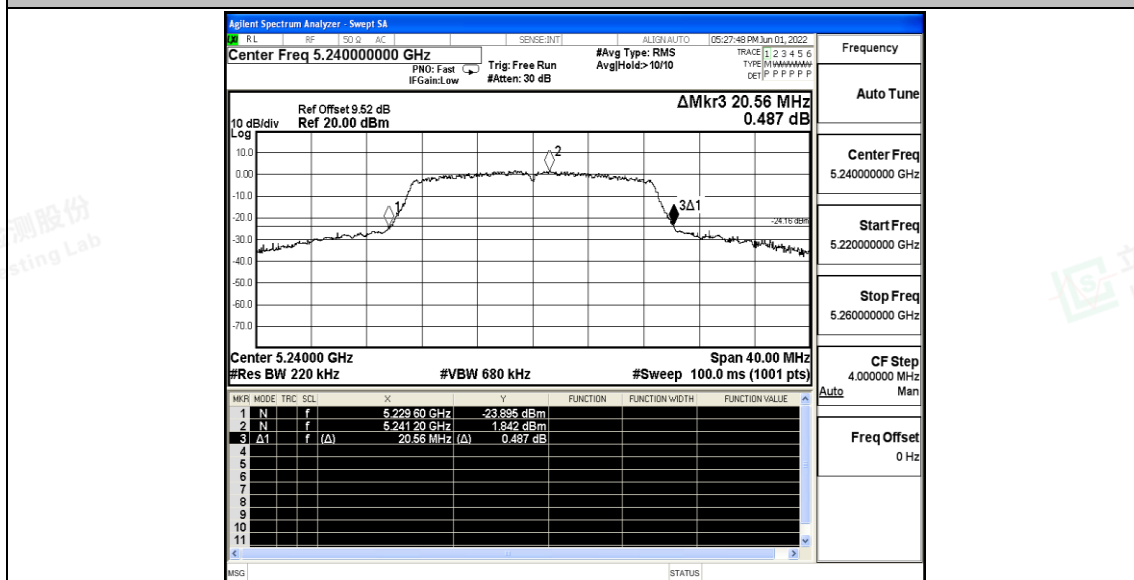
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11N20SISO_Ant_5240



11N40SISO_Ant_5190

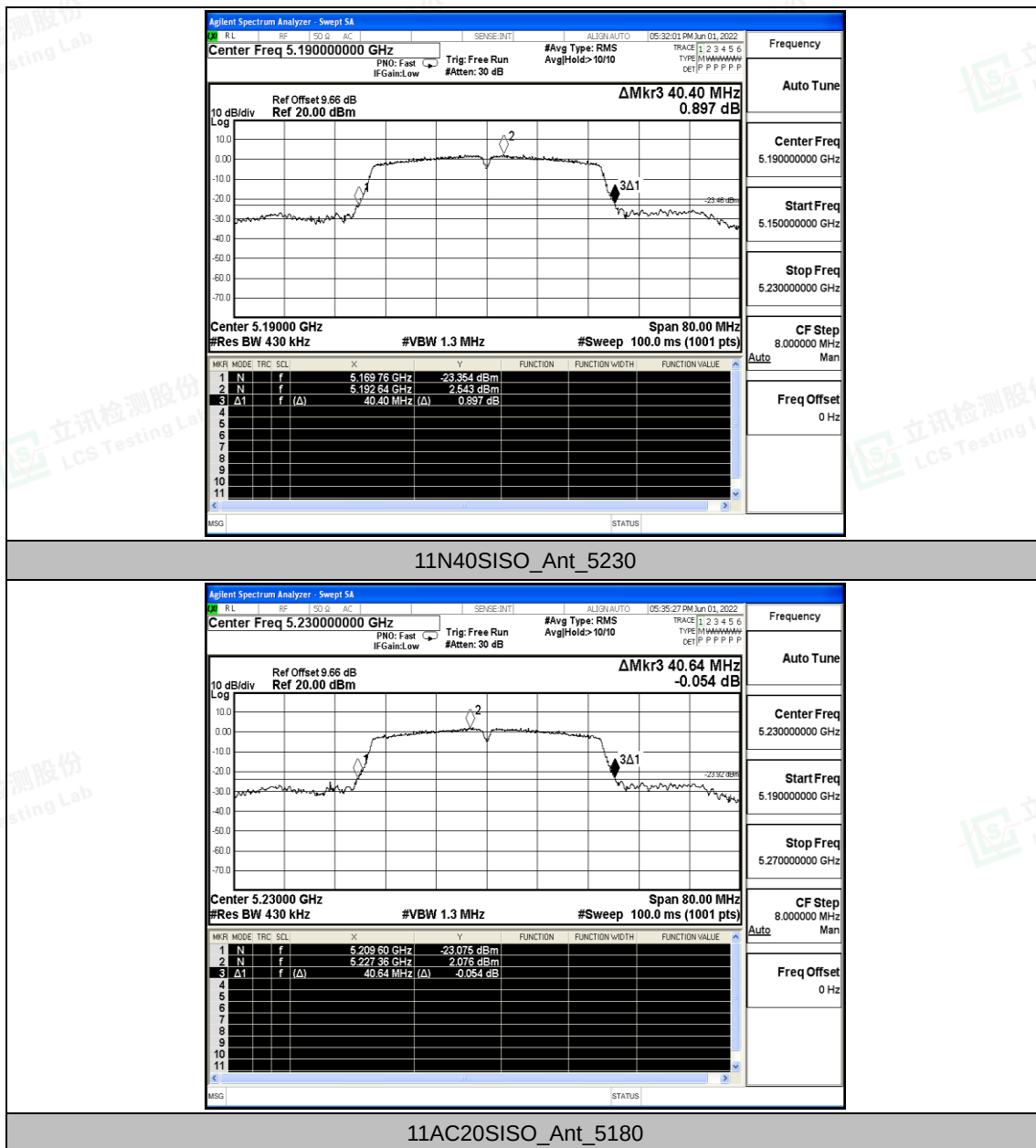


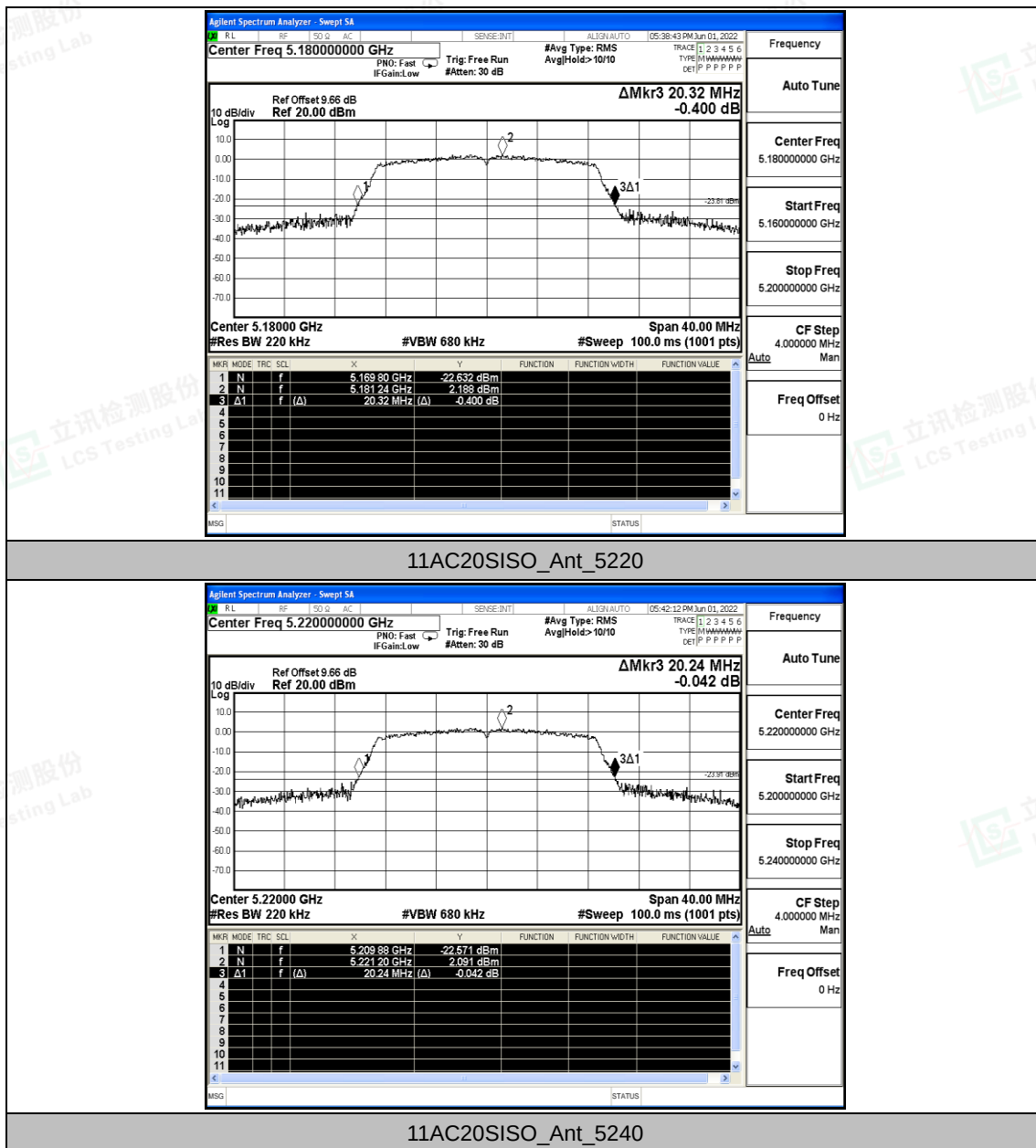
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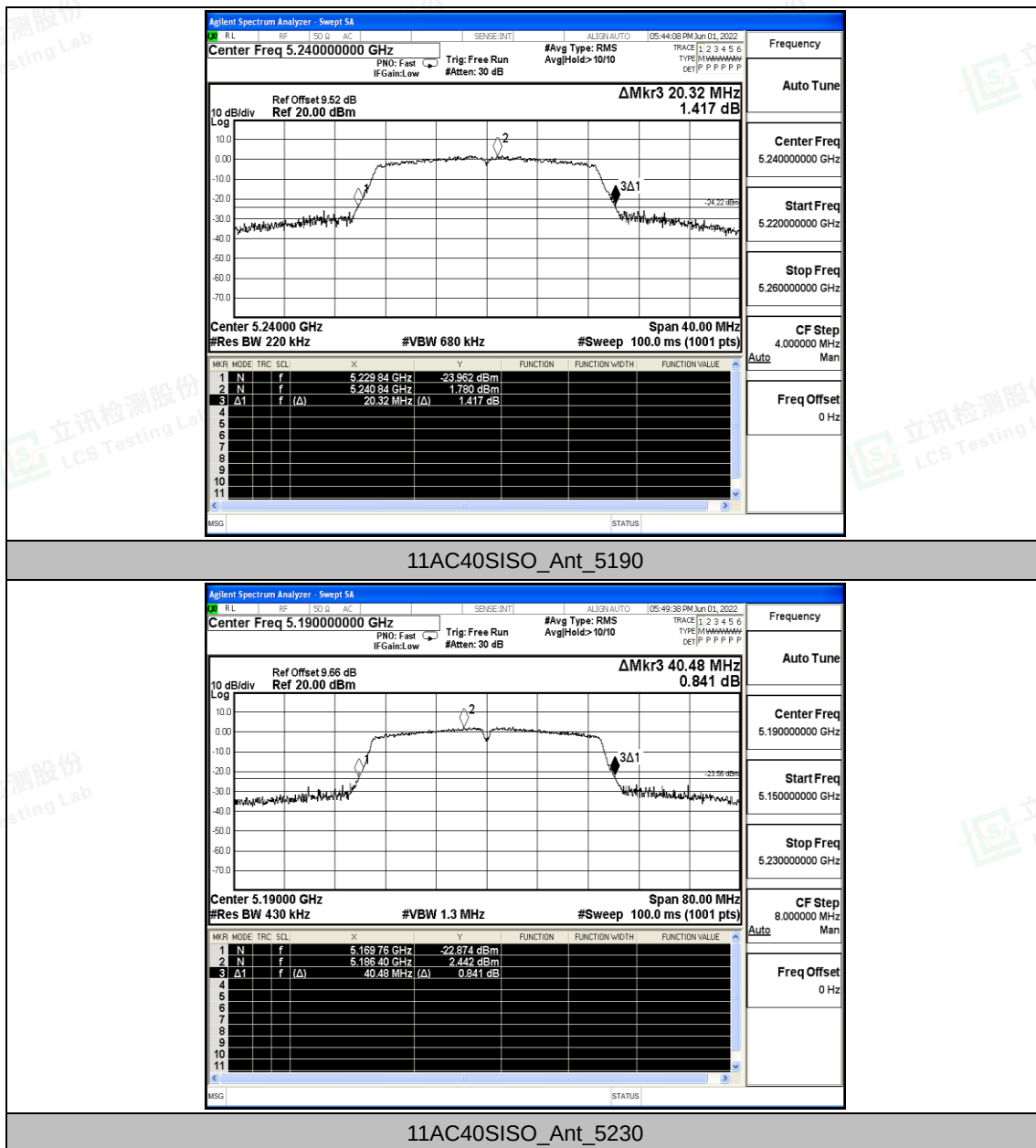


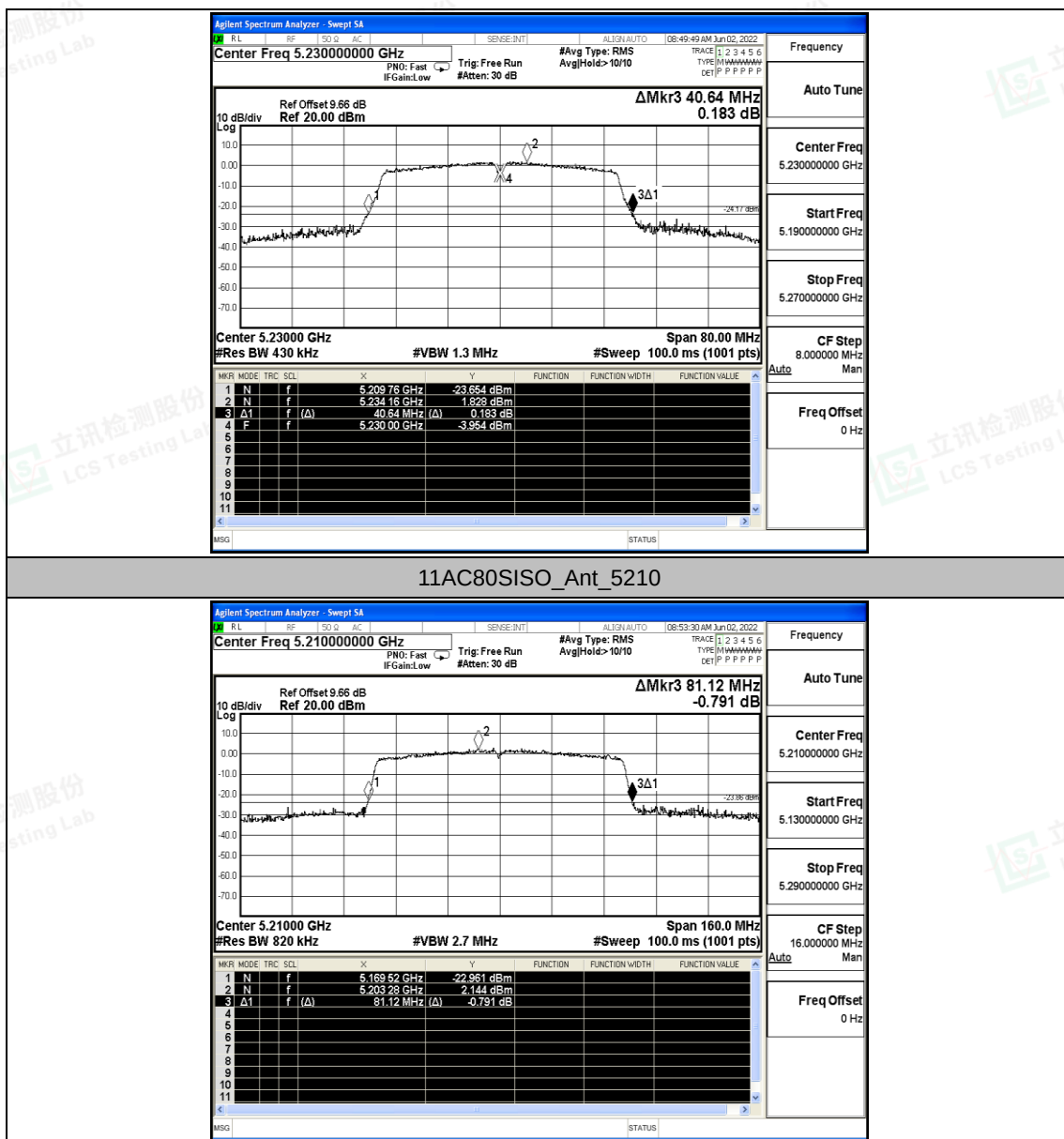
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D.2 Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11A	Ant	5180	11.47	≤ 23.98	PASS
		5220	11.25	≤ 23.98	PASS
		5240	11.11	≤ 23.98	PASS
11N20SISO	Ant	5180	11.34	≤ 23.98	PASS
		5220	11.25	≤ 23.98	PASS
		5240	10.88	≤ 23.98	PASS
11N40SISO	Ant	5190	11.28	≤ 23.98	PASS
		5230	11.13	≤ 23.98	PASS
11AC20SISO	Ant	5180	11.26	≤ 23.98	PASS
		5220	11.06	≤ 23.98	PASS
		5240	11.06	≤ 23.98	PASS
11AC40SISO	Ant	5190	11.26	≤ 23.98	PASS
		5230	10.95	≤ 23.98	PASS
11AC80SISO	Ant	5210	11.03	≤ 23.98	PASS

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





D.3 Maximum power spectral density

Test Result

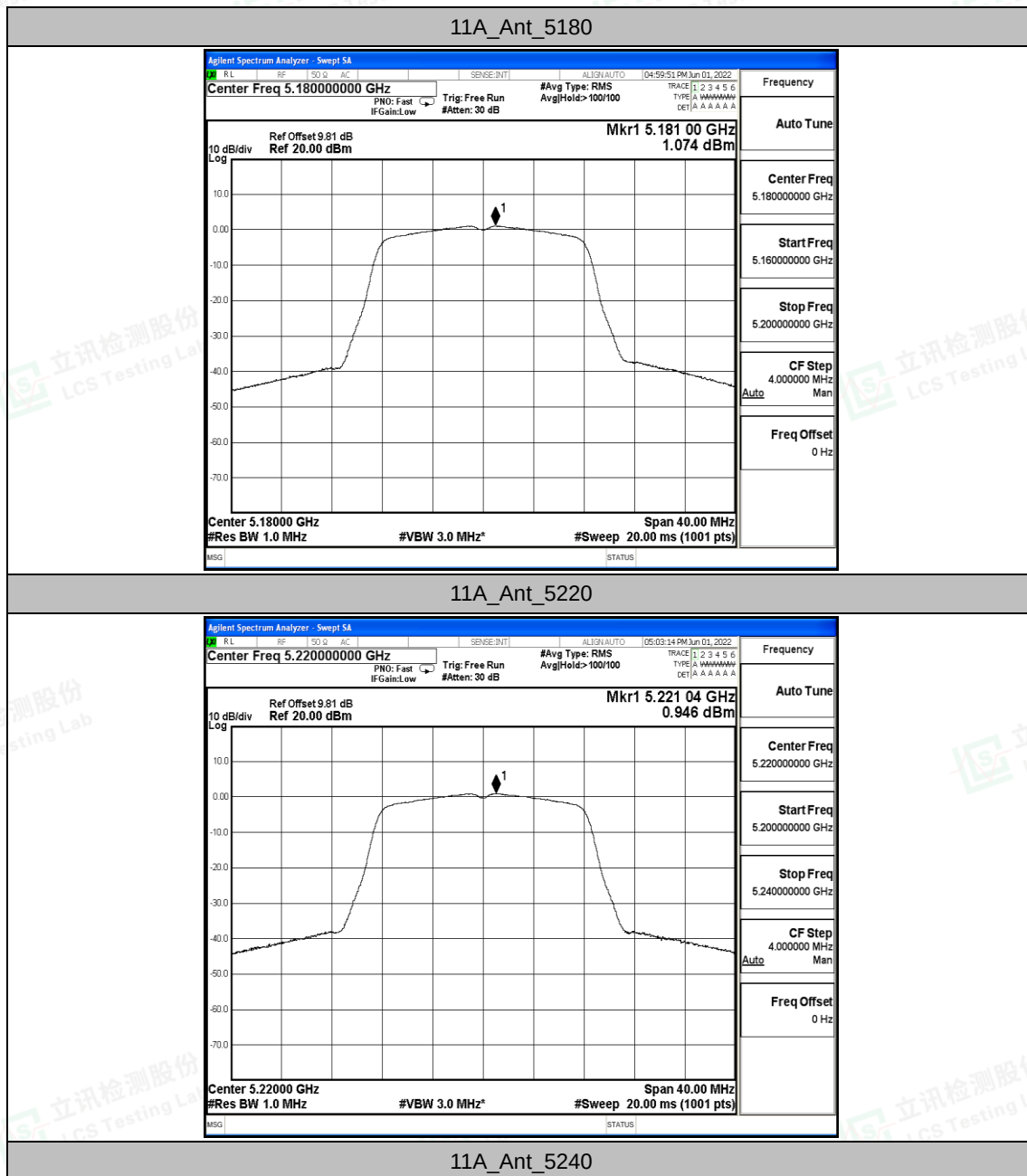
TestMode	Antenna	Channel	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant	5180	1.12	≤11.00	PASS
		5220	0.93	≤11.00	PASS
		5240	0.65	≤11.00	PASS
11N20SISO	Ant	5180	0.65	≤11.00	PASS
		5220	0.56	≤11.00	PASS
		5240	0.18	≤11.00	PASS
11N40SISO	Ant	5190	-2.24	≤11.00	PASS
		5230	-2.4	≤11.00	PASS
11AC20SISO	Ant	5180	0.66	≤11.00	PASS
		5220	0.4	≤11.00	PASS
		5240	0.45	≤11.00	PASS
11AC40SISO	Ant	5190	-2.32	≤11.00	PASS
		5230	-2.68	≤11.00	PASS
11AC80SISO	Ant	5210	-5.62	≤11.00	PASS

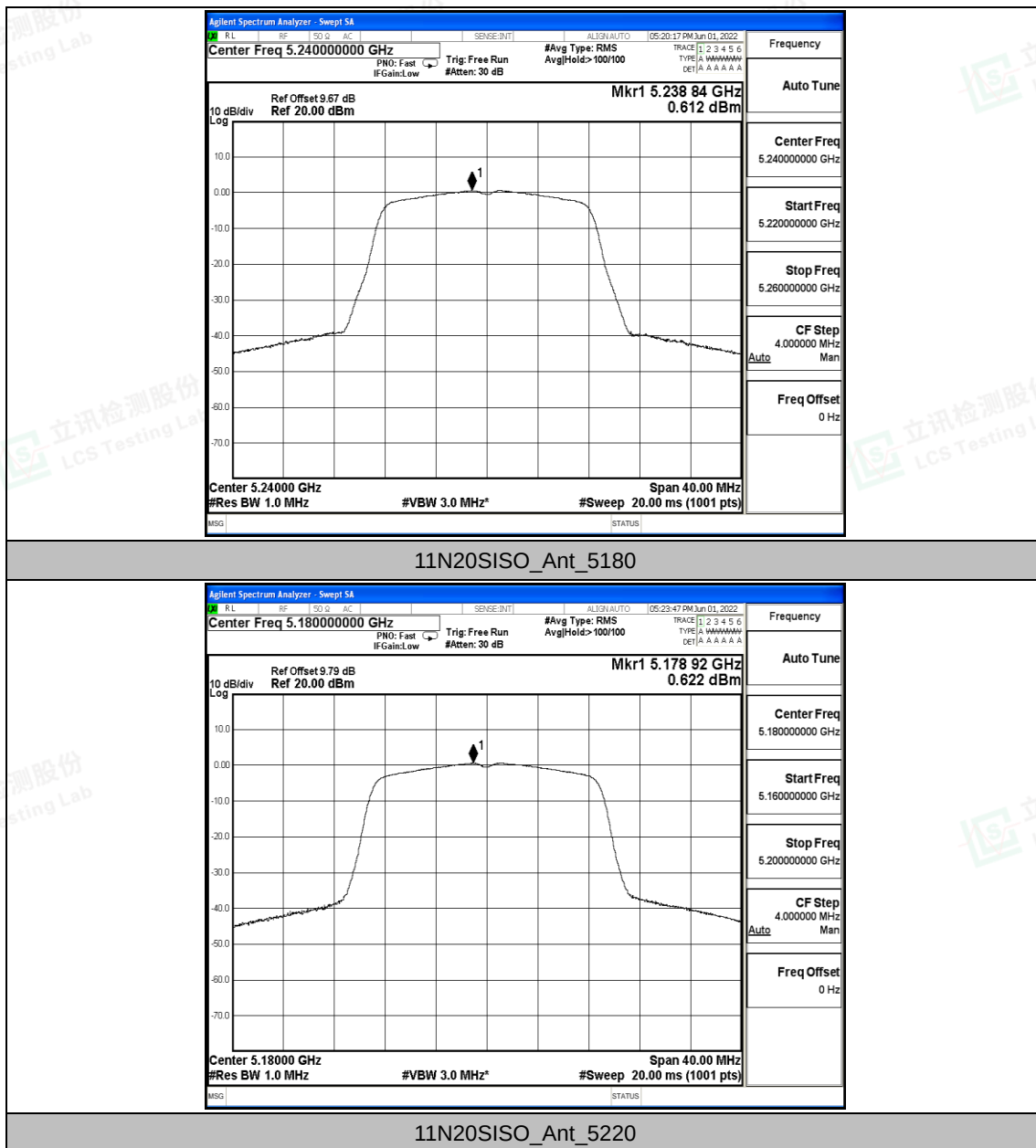
Note: The Duty Cycle Factor and RBW Factor is compensated in the graph.

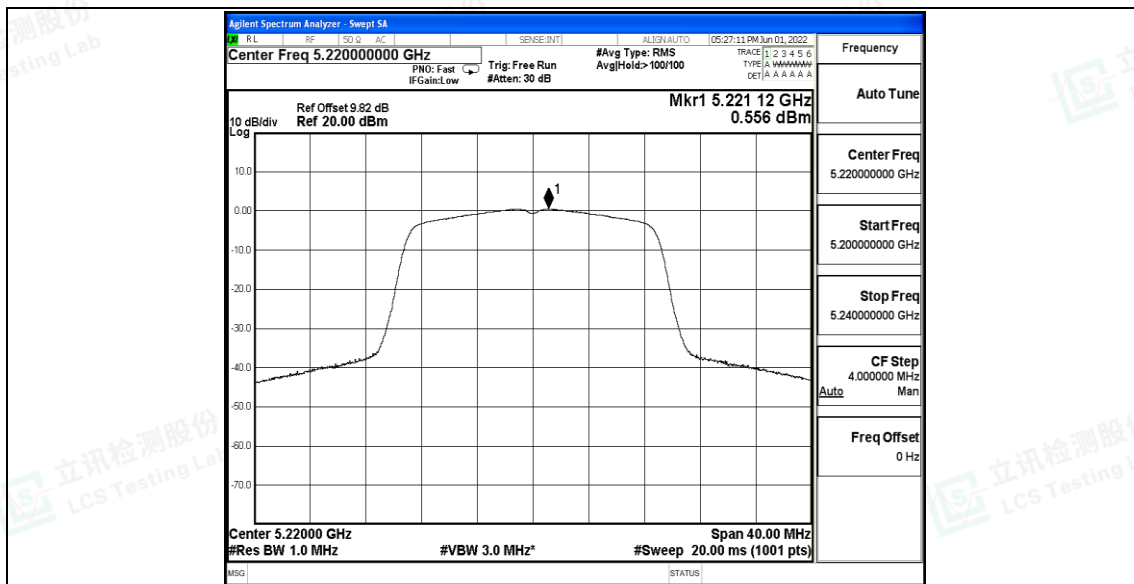




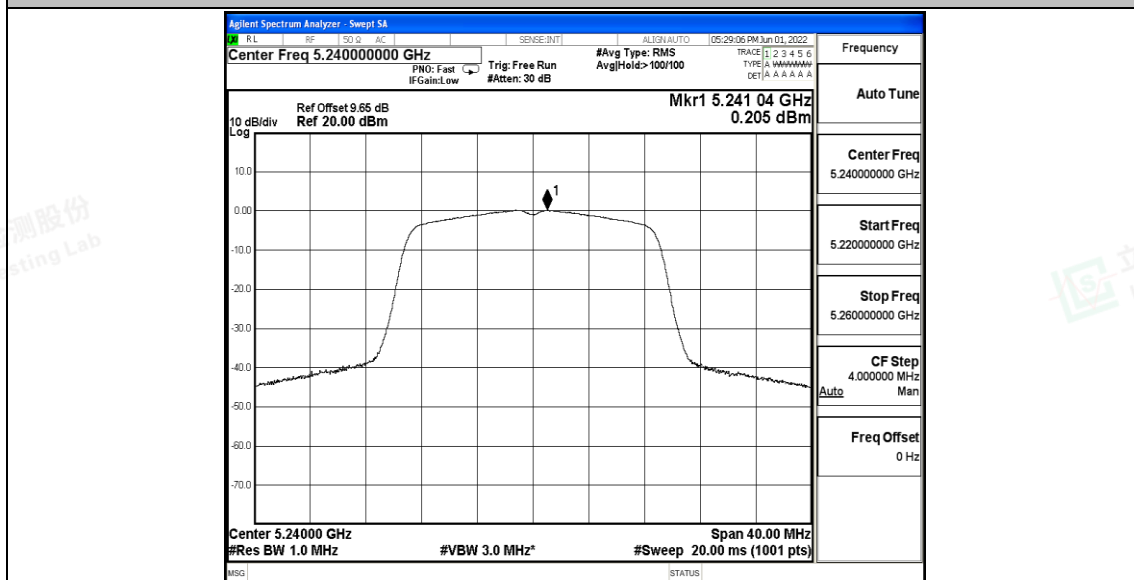
Test Graphs





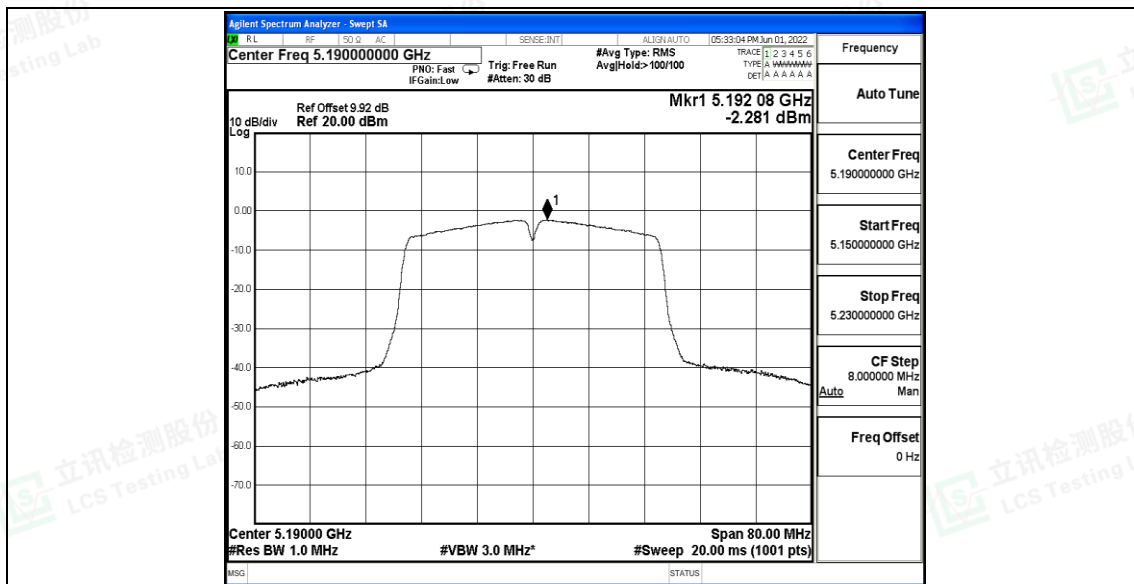


11N20SISO_Ant_5240

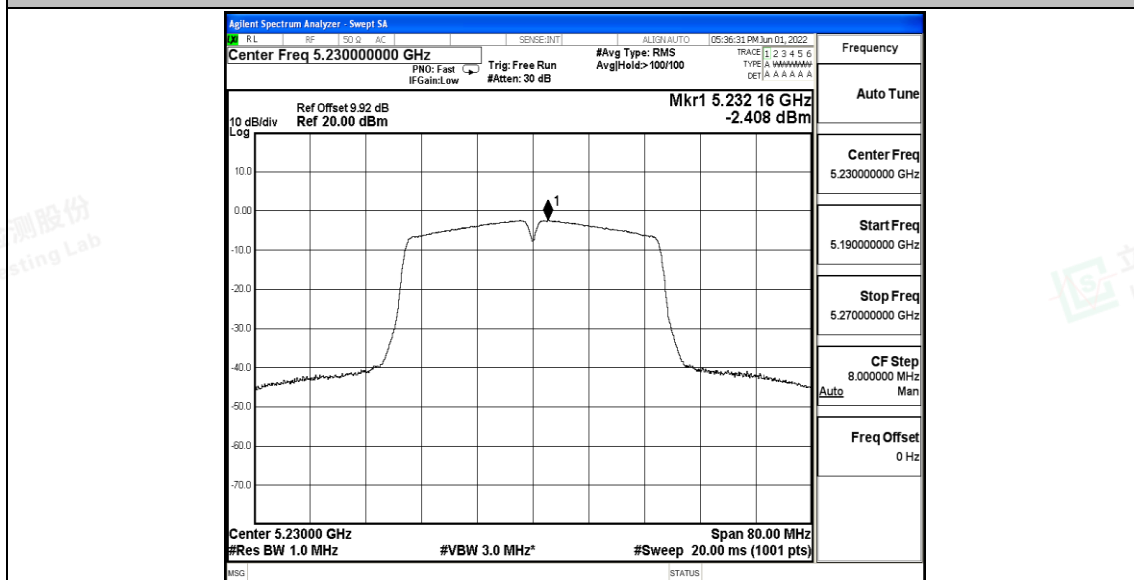


11N40SISO_Ant_5190



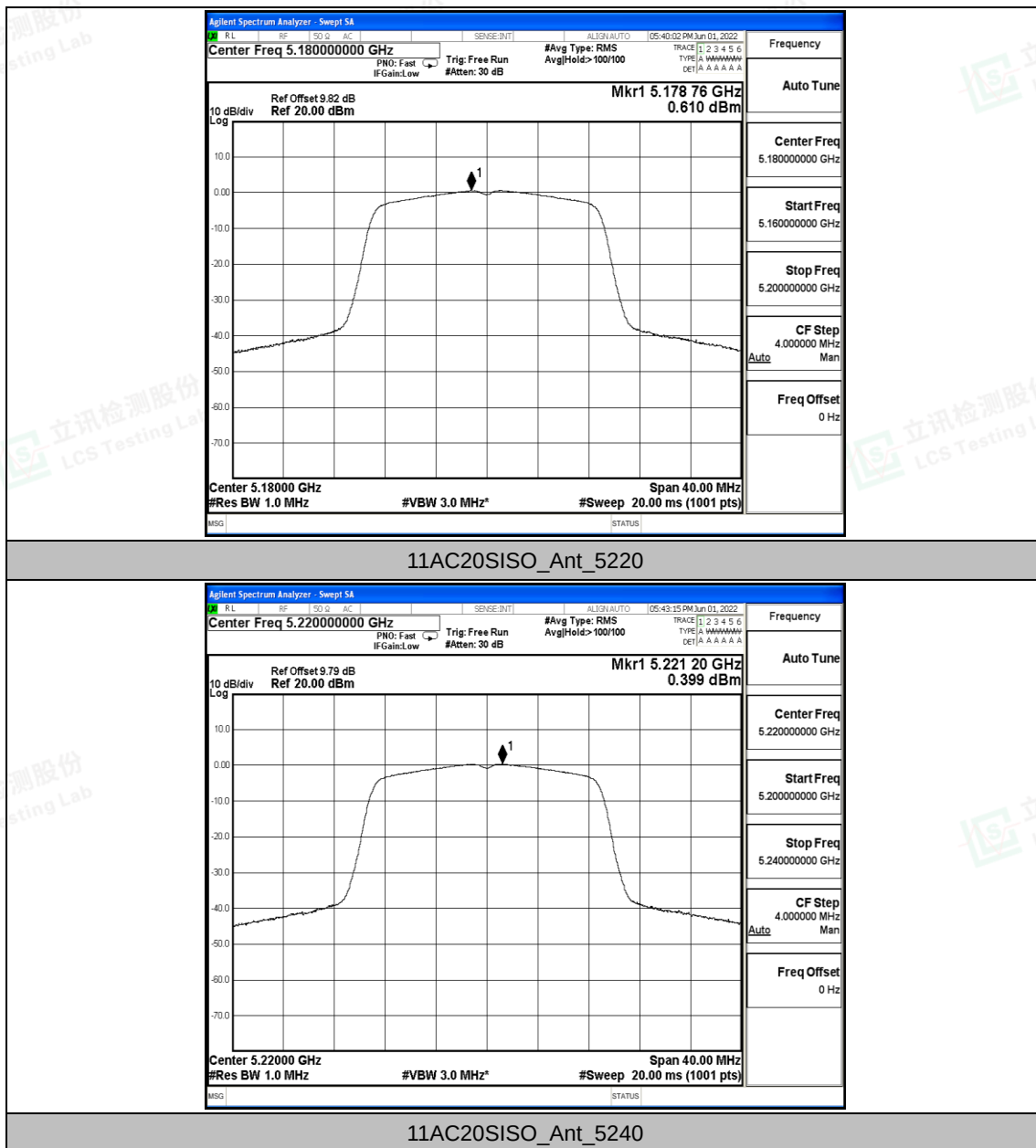


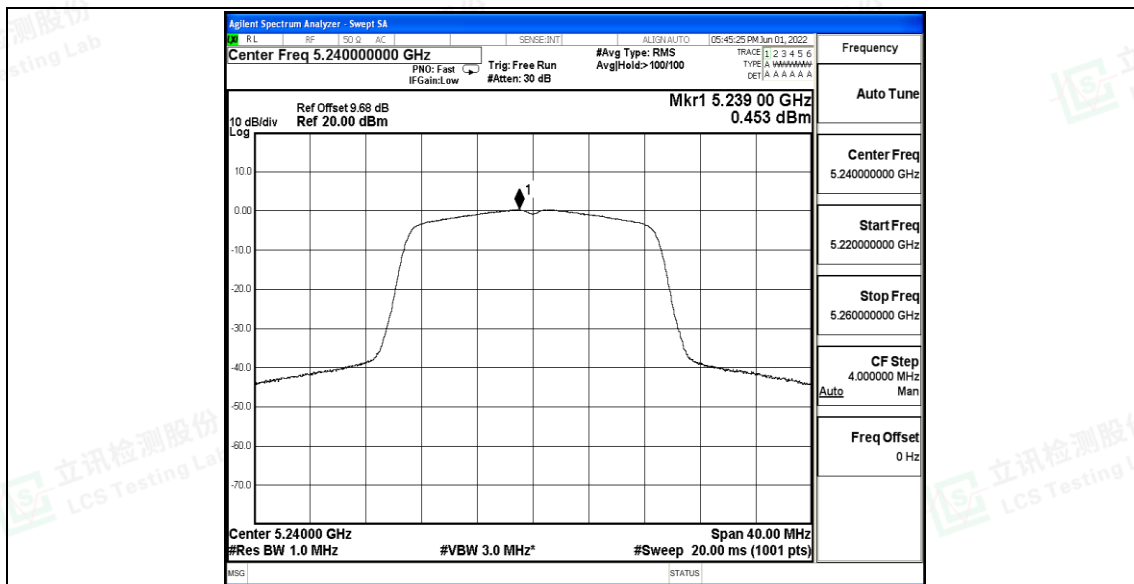
11N40SISO_Ant_5230



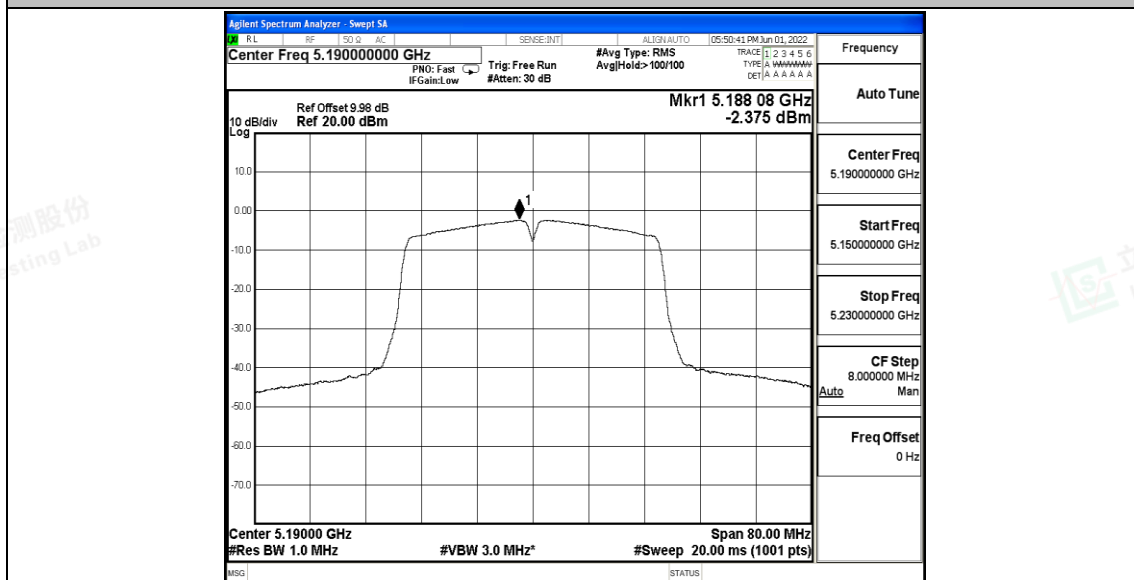
11AC20SISO_Ant_5180





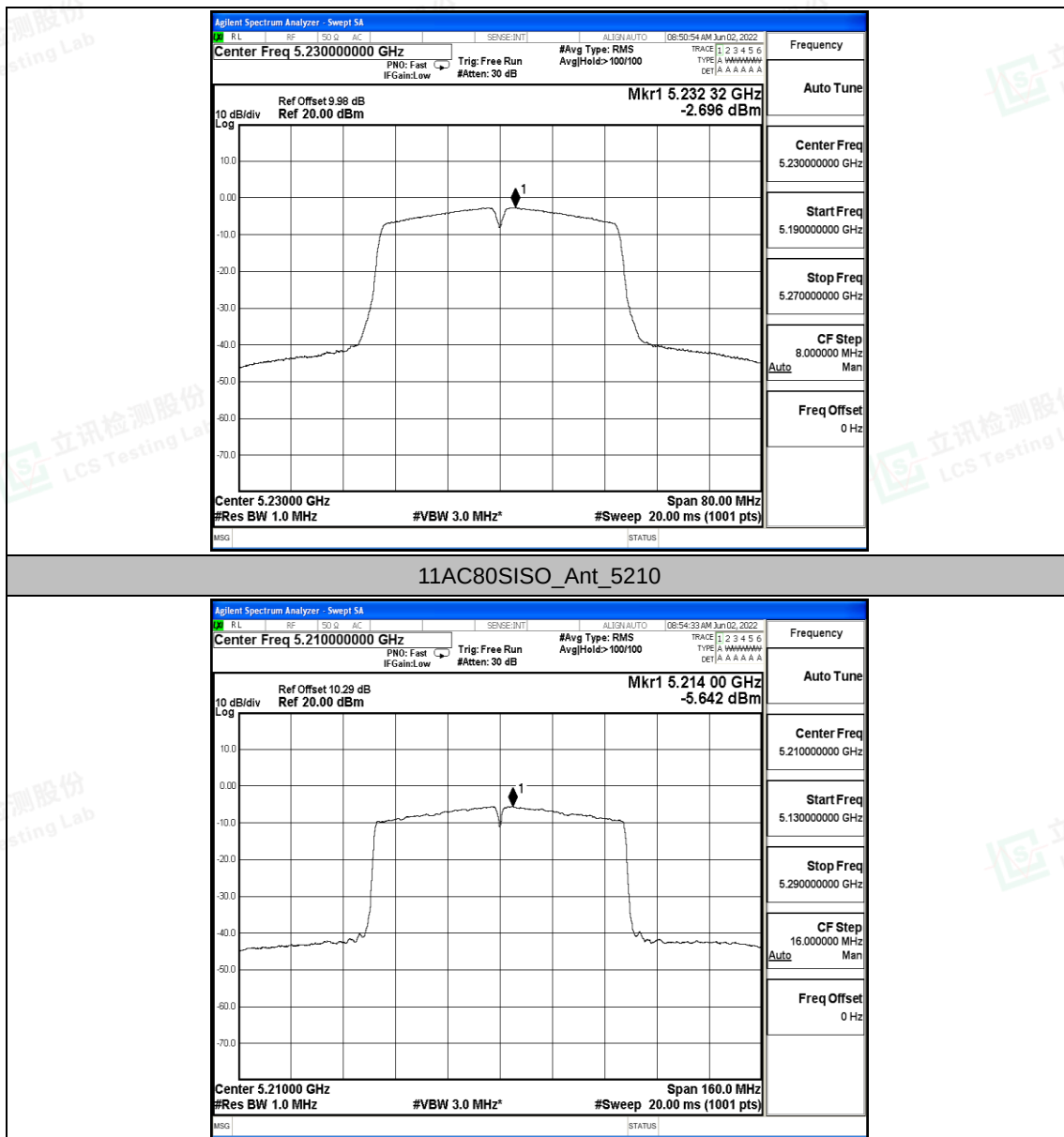


11AC40SISO_Ant_5190



11AC40SISO_Ant_5230







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	-48.6	≤-41.20	46.60	≤54	PASS
				AV	5149.600	-45.65	≤-41.20	49.55	≤54	PASS
				AV	5150.000	-45.56	≤-41.20	49.64	≤54	PASS
				Peak	4500.000	-39.75	≤-21.20	55.45	≤68.2	PASS
				Peak	5148.900	-32.81	≤-21.20	62.39	≤68.2	PASS
				Peak	5150.000	-35	≤-21.20	60.20	≤68.2	PASS
		High	5240	AV	5350.000	-47.29	≤-41.20	47.91	≤54	PASS
				AV	5357.280	-47.02	≤-41.20	48.18	≤54	PASS
				AV	5460.000	-47.35	≤-41.20	47.85	≤54	PASS
				Peak	5350.000	-39.08	≤-21.20	56.12	≤68.2	PASS
				Peak	5428.800	-36.57	≤-21.20	58.63	≤68.2	PASS
				Peak	5460.000	-39.53	≤-21.20	55.67	≤68.2	PASS
11N20SIS O	Ant	Low	5180	AV	4500.000	-48.76	≤-41.20	46.44	≤54	PASS
				AV	5149.600	-45.37	≤-41.20	49.83	≤54	PASS
				AV	5150.000	-45.42	≤-41.20	49.78	≤54	PASS
				Peak	4500.000	-39.27	≤-21.20	55.93	≤68.2	PASS
				Peak	5147.500	-30.4	≤-21.20	64.80	≤68.2	PASS
				Peak	5150.000	-34.65	≤-21.20	60.55	≤68.2	PASS
		High	5240	AV	5350.000	-47.23	≤-41.20	47.97	≤54	PASS
				AV	5371.200	-47.14	≤-41.20	48.06	≤54	PASS
				AV	5460.000	-47.6	≤-41.20	47.60	≤54	PASS
				Peak	5350.000	-37.79	≤-21.20	57.41	≤68.2	PASS
				Peak	5429.760	-36.41	≤-21.20	58.79	≤68.2	PASS
				Peak	5460.000	-39.46	≤-21.20	55.74	≤68.2	PASS
11N40SIS O	Ant	Low	5190	AV	4500.000	-48.41	≤-41.20	46.79	≤54	PASS
				AV	5149.600	-41.46	≤-41.20	53.74	≤54	PASS
				AV	5150.000	-41.4	≤-41.20	53.80	≤54	PASS
				Peak	4500.000	-40.15	≤-21.20	55.05	≤68.2	PASS
				Peak	5149.600	-18.91	≤-21.20	66.29	≤68.2	PASS
				Peak	5150.000	-18.4	≤-21.20	66.80	≤68.2	PASS
		High	5230	AV	5350.000	-46.8	≤-41.20	48.40	≤54	PASS
				AV	5385.640	-46.56	≤-41.20	48.64	≤54	PASS
				AV	5460.000	-47.22	≤-41.20	47.98	≤54	PASS
				Peak	5350.000	-39.16	≤-21.20	56.04	≤68.2	PASS



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11AC20SI SO	Ant	Low	5180	Peak	5400.980	-36.27	≤-21.20	58.93	≤68.2	PASS
				Peak	5460.000	-38.88	≤-21.20	56.32	≤68.2	PASS
				AV	4500.000	-48.52	≤-41.20	46.68	≤54	PASS
				AV	5149.600	-45.04	≤-41.20	50.16	≤54	PASS
				AV	5150.000	-44.96	≤-41.20	50.24	≤54	PASS
				Peak	4500.000	-39.94	≤-21.20	55.26	≤68.2	PASS
		High	5240	Peak	5147.500	-29.06	≤-21.20	66.14	≤68.2	PASS
				Peak	5150.000	-34.19	≤-21.20	61.01	≤68.2	PASS
				AV	5350.000	-47.41	≤-41.20	47.79	≤54	PASS
				AV	5378.880	-46.99	≤-41.20	48.21	≤54	PASS
				AV	5460.000	-47.64	≤-41.20	47.56	≤54	PASS
				Peak	5350.000	-38.29	≤-21.20	56.91	≤68.2	PASS
11AC40SI SO	Ant	Low	5190	Peak	5354.400	-36.53	≤-21.20	58.67	≤68.2	PASS
				Peak	5460.000	-39.15	≤-21.20	56.05	≤68.2	PASS
				AV	4500.000	-48.23	≤-41.20	46.97	≤54	PASS
				AV	5147.500	-42.62	≤-41.20	52.58	≤54	PASS
				AV	5150.000	-42.57	≤-41.20	52.63	≤54	PASS
				Peak	4500.000	-39.72	≤-21.20	55.48	≤68.2	PASS
		High	5230	Peak	5149.600	-27.03	≤-21.20	68.17	≤68.2	PASS
				Peak	5150.000	-29.15	≤-21.20	66.05	≤68.2	PASS
				AV	5350.000	-47.01	≤-41.20	48.19	≤54	PASS
				AV	5370.560	-46.53	≤-41.20	48.67	≤54	PASS
				AV	5460.000	-47.14	≤-41.20	48.06	≤54	PASS
				Peak	5350.000	-38.35	≤-21.20	56.85	≤68.2	PASS
11AC80SI SO	Ant	Low	5210	Peak	5436.600	-36.67	≤-21.20	58.53	≤68.2	PASS
				Peak	5460.000	-38.59	≤-21.20	56.61	≤68.2	PASS
				AV	4500.000	-47.84	≤-41.20	47.36	≤54	PASS
				AV	5149.500	-42.96	≤-41.20	52.24	≤54	PASS
				AV	5150.000	-43.13	≤-41.20	52.07	≤54	PASS
				Peak	4500.000	-40.46	≤-21.20	54.74	≤68.2	PASS
		High	5210	Peak	5147.250	-32.02	≤-21.20	63.18	≤68.2	PASS
				Peak	5150.000	-32.75	≤-21.20	62.45	≤68.2	PASS
				AV	5350.000	-46.66	≤-41.20	48.54	≤54	PASS
				AV	5352.760	-46.01	≤-41.20	49.19	≤54	PASS
				AV	5460.000	-46.9	≤-41.20	48.30	≤54	PASS
				Peak	5350.000	-37.7	≤-21.20	57.50	≤68.2	PASS
				Peak	5359.480	-36.11	≤-21.20	59.09	≤68.2	PASS
				Peak	5460.000	-38.29	≤-21.20	56.91	≤68.2	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 detector is 20dB above the limit of average detector in dBm.





Test Graphs

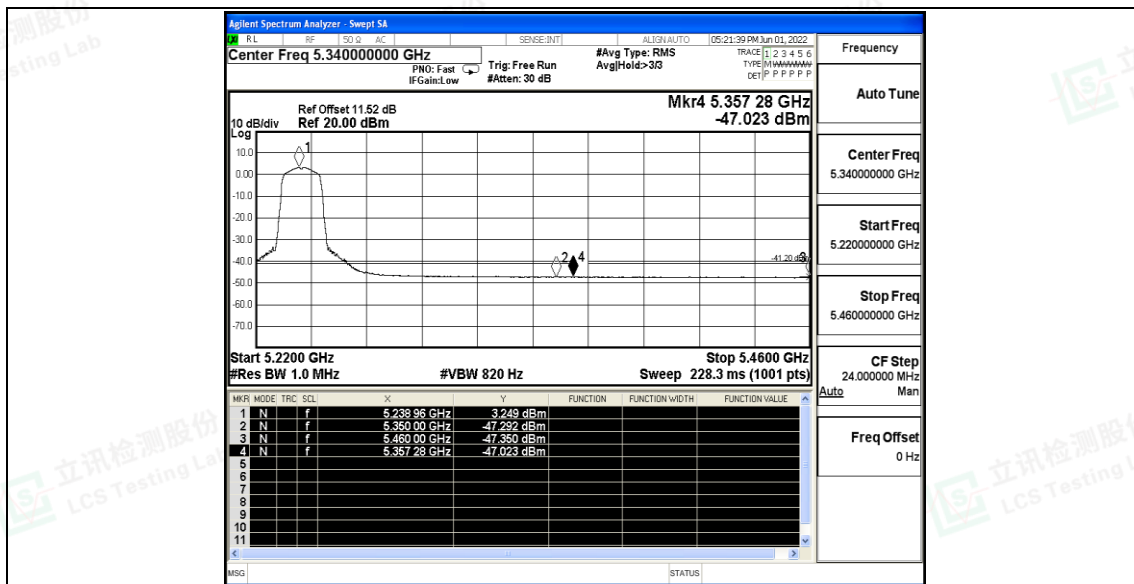


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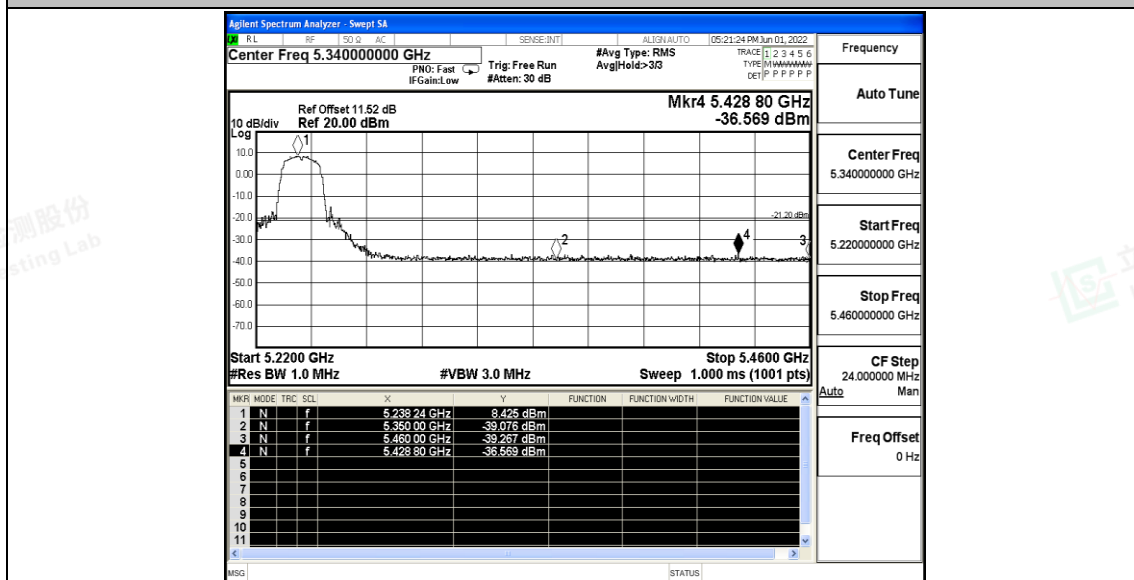
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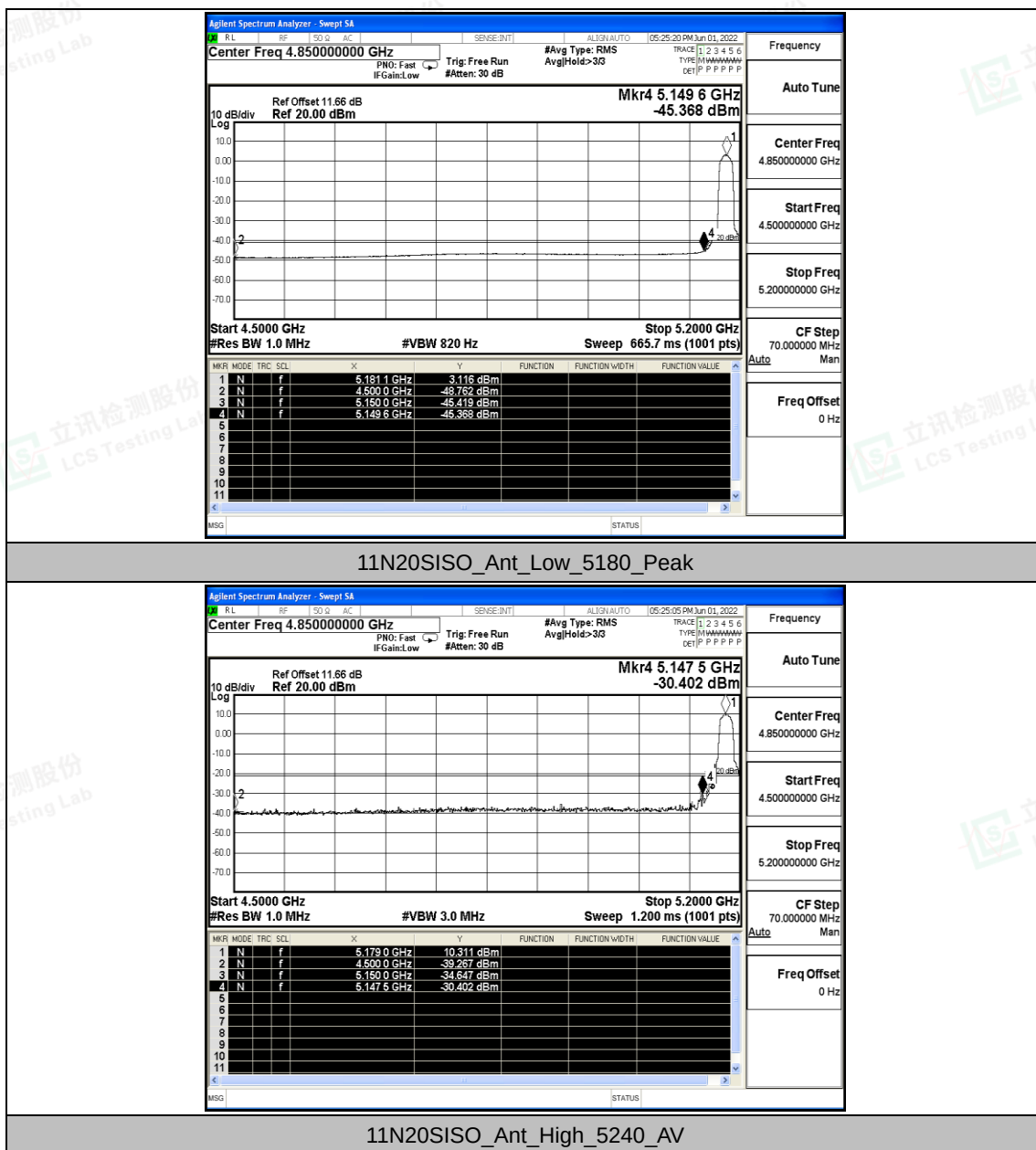


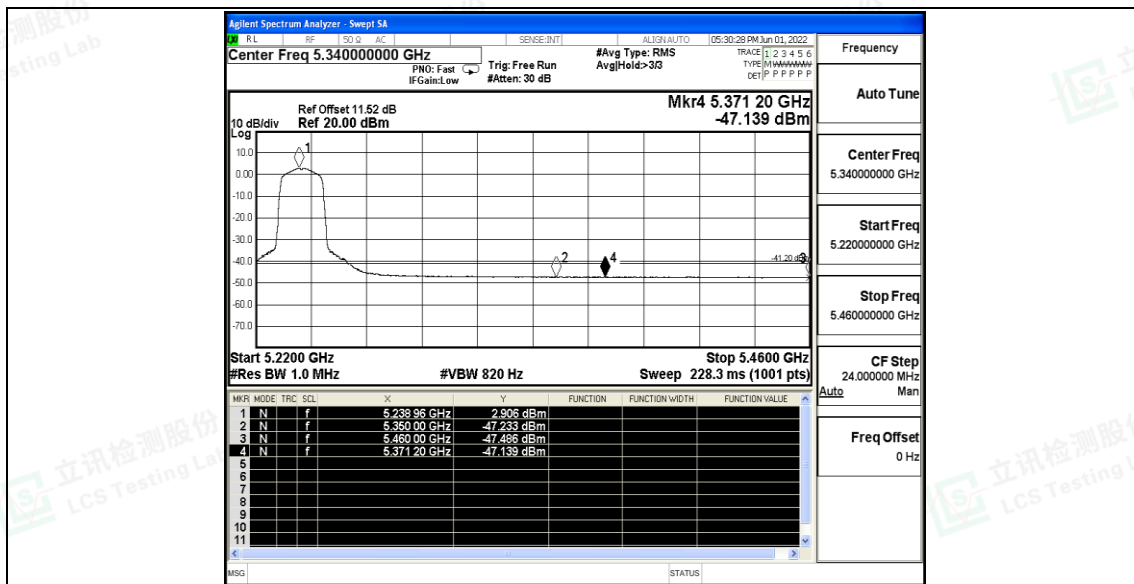
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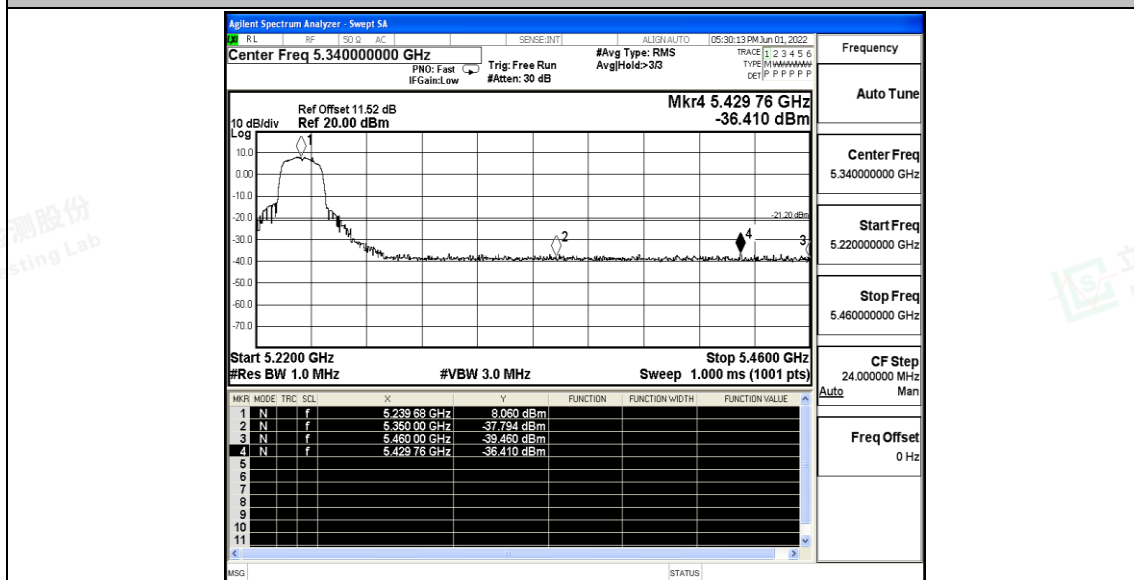
11N20SISO_Ant_Low_5180_AV







11N20SISO_Ant_High_5240_Peak



11N40SISO_Ant_Low_5190_AV

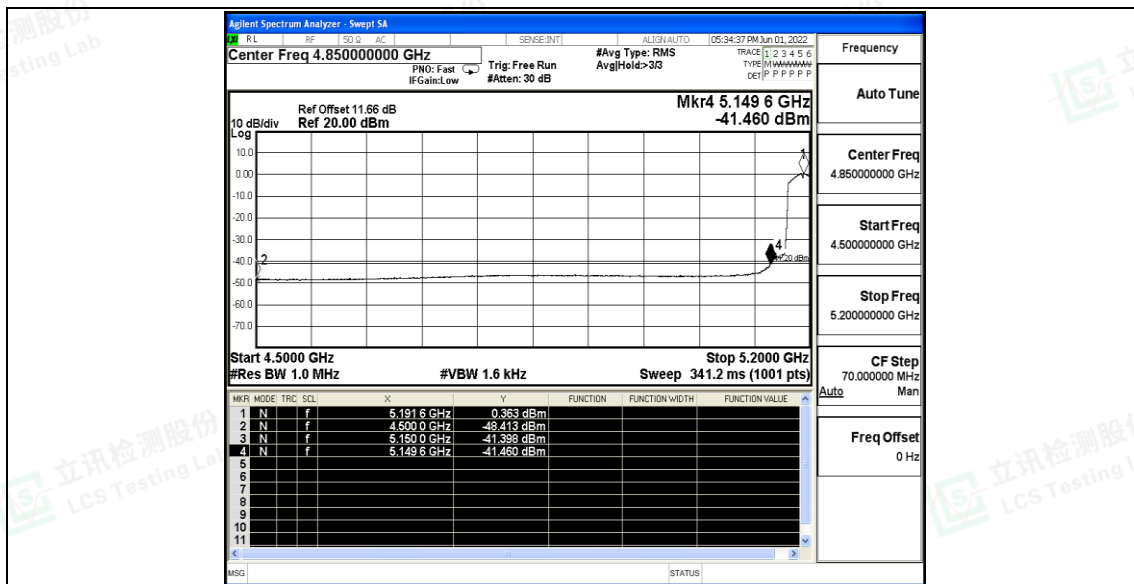


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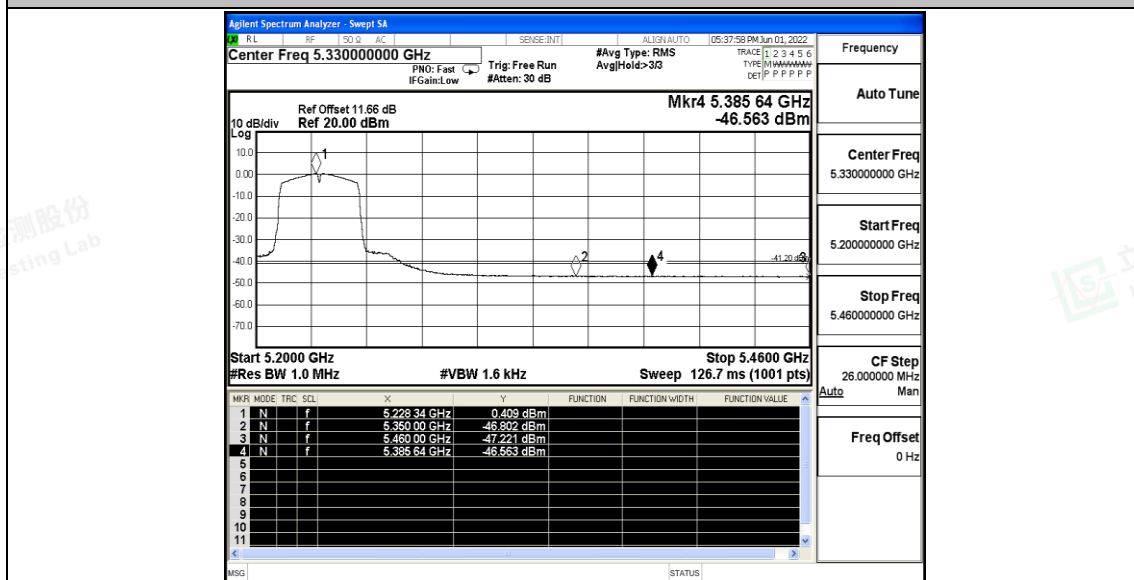
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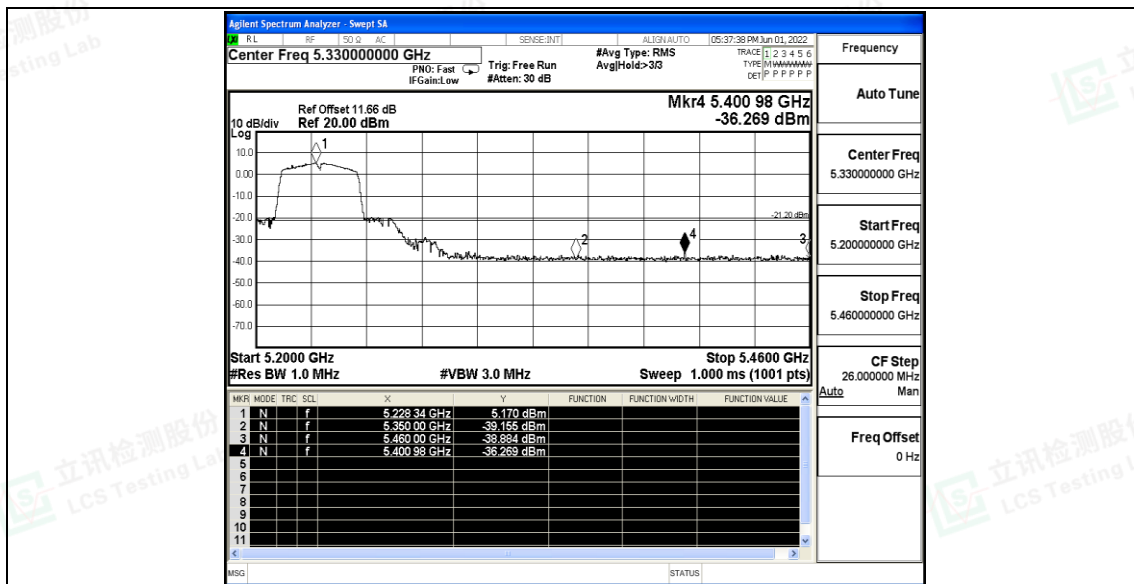


11N40SISO_Ant_High_5230_AV

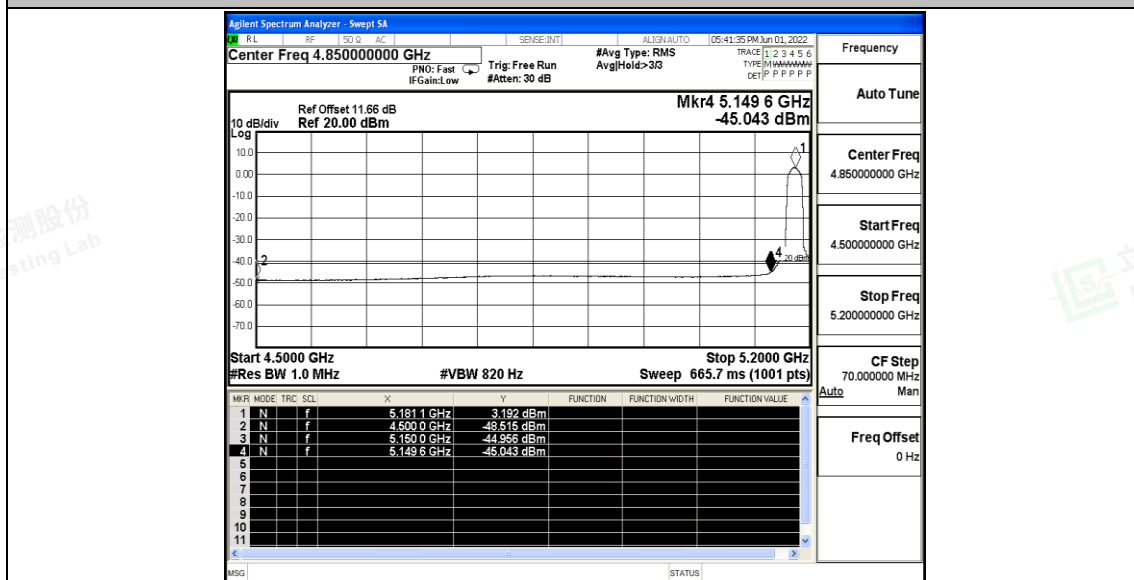


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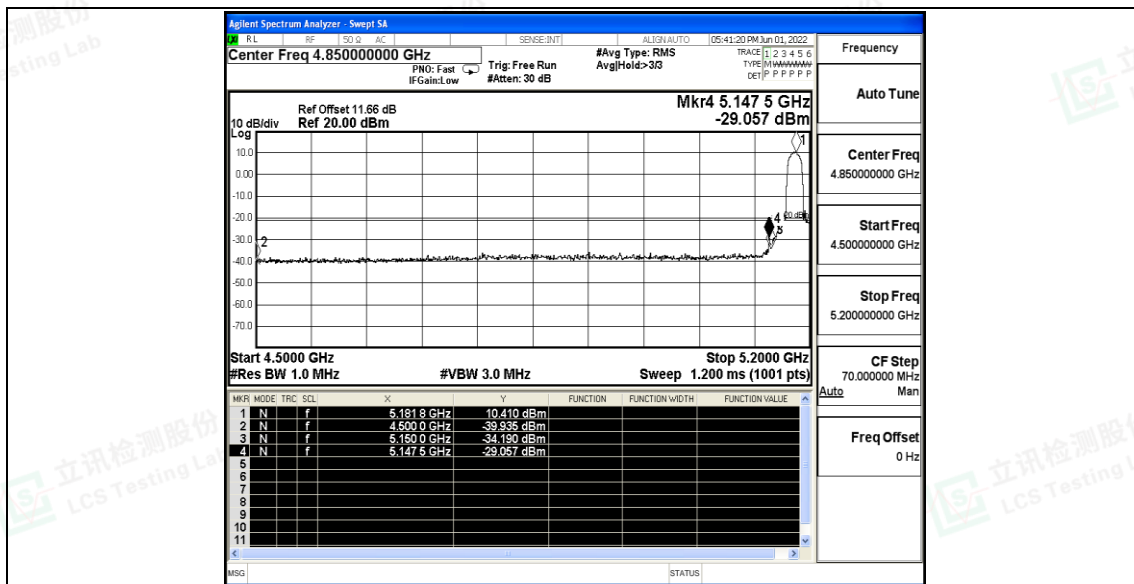


11AC20SISO_Ant_Low_5180_AV

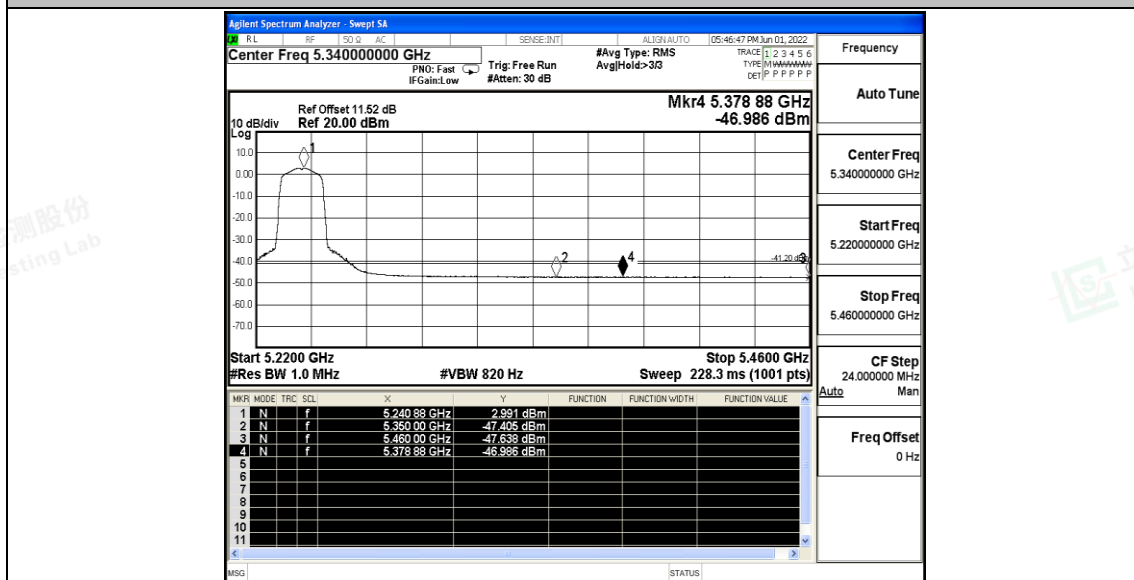


11AC20SISO_Ant_Low_5180_Peak





11AC20SISO_Ant_High_5240_AV



11AC20SISO_Ant_High_5240_Peak

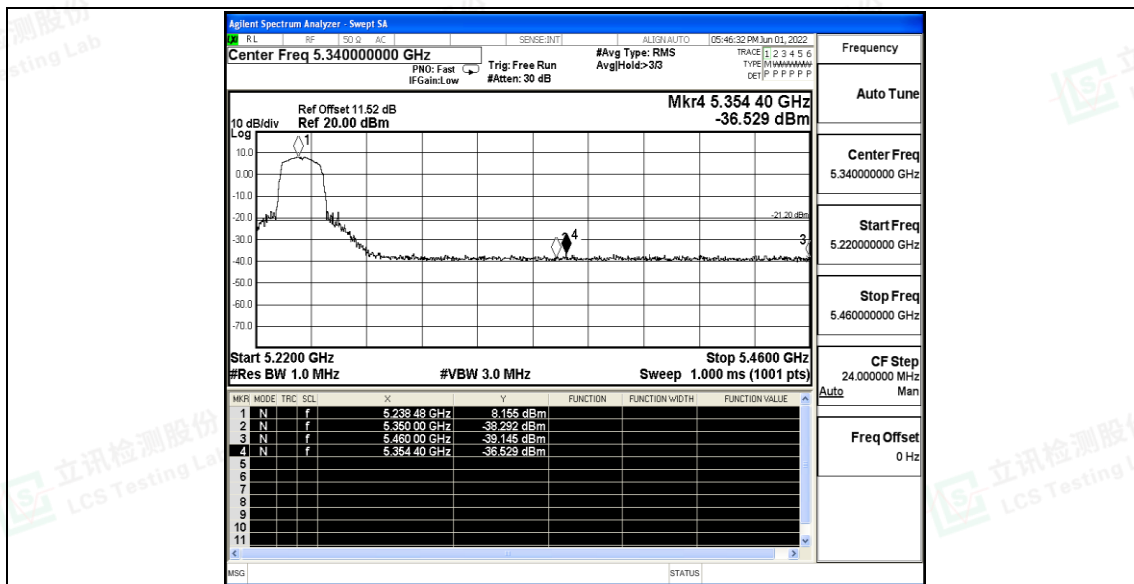


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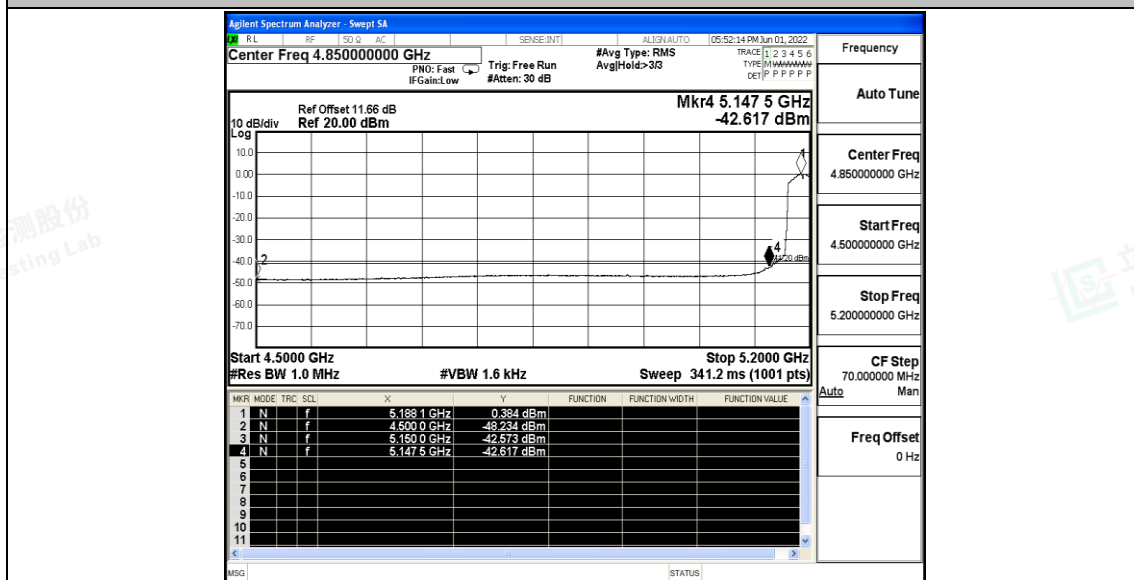
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11AC40SISO_Ant_Low_5190_AV



11AC40SISO_Ant_Low_5190_Peak

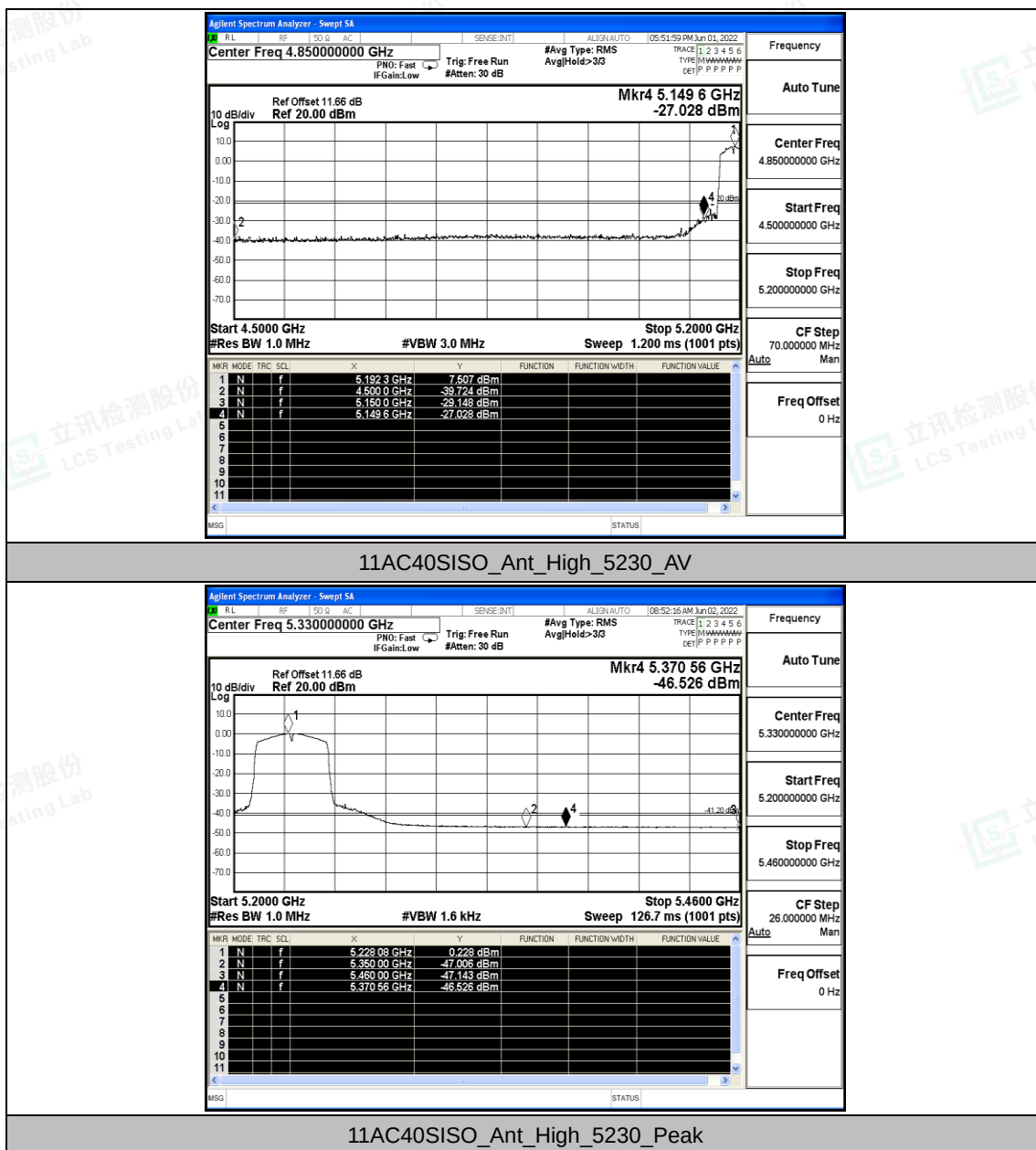


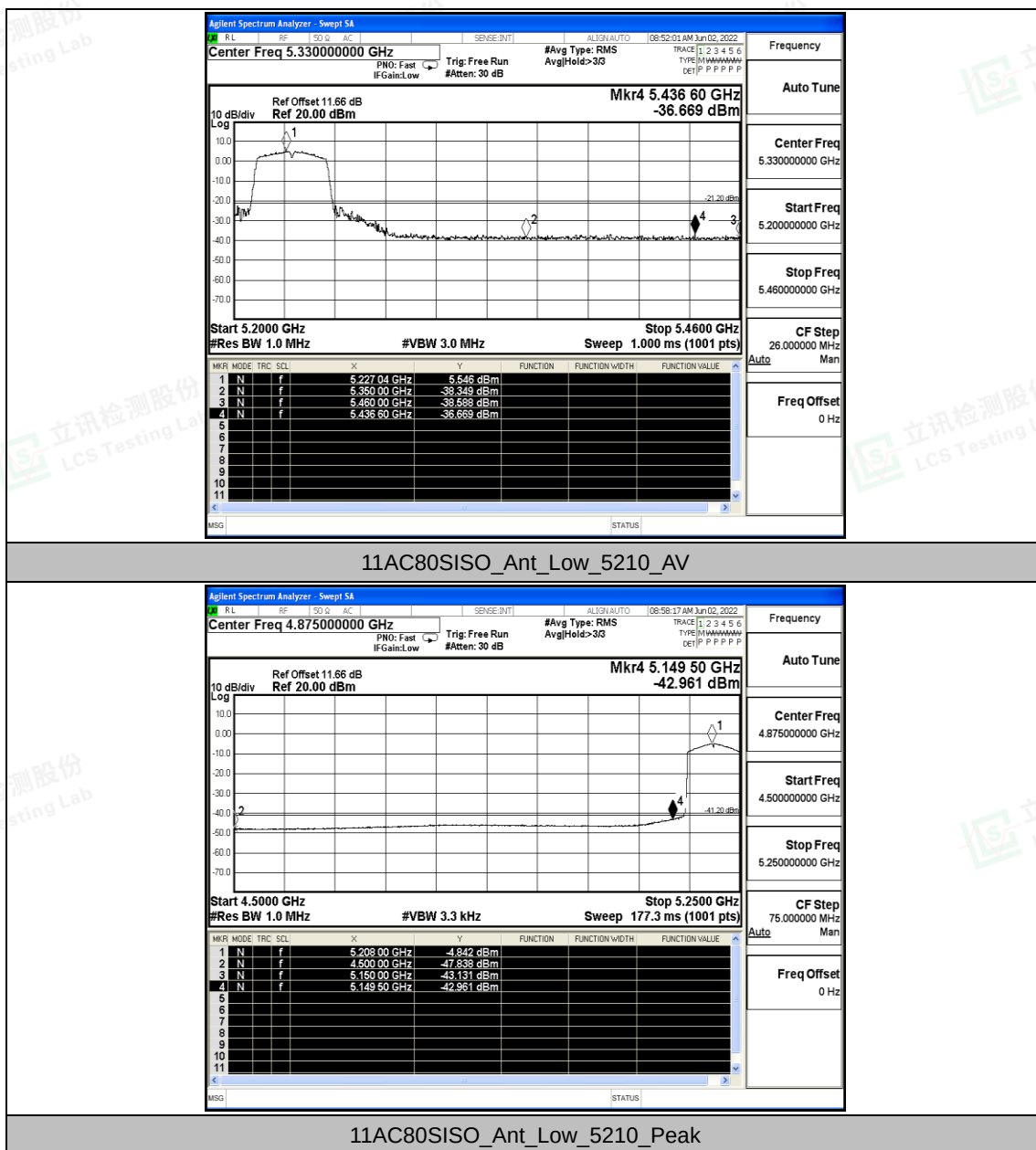
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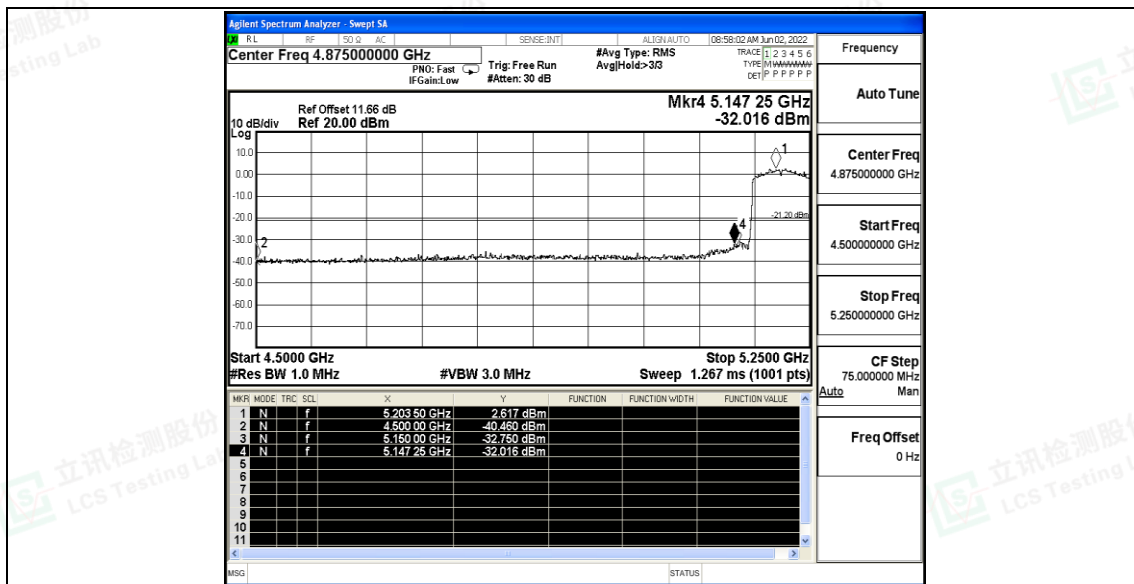


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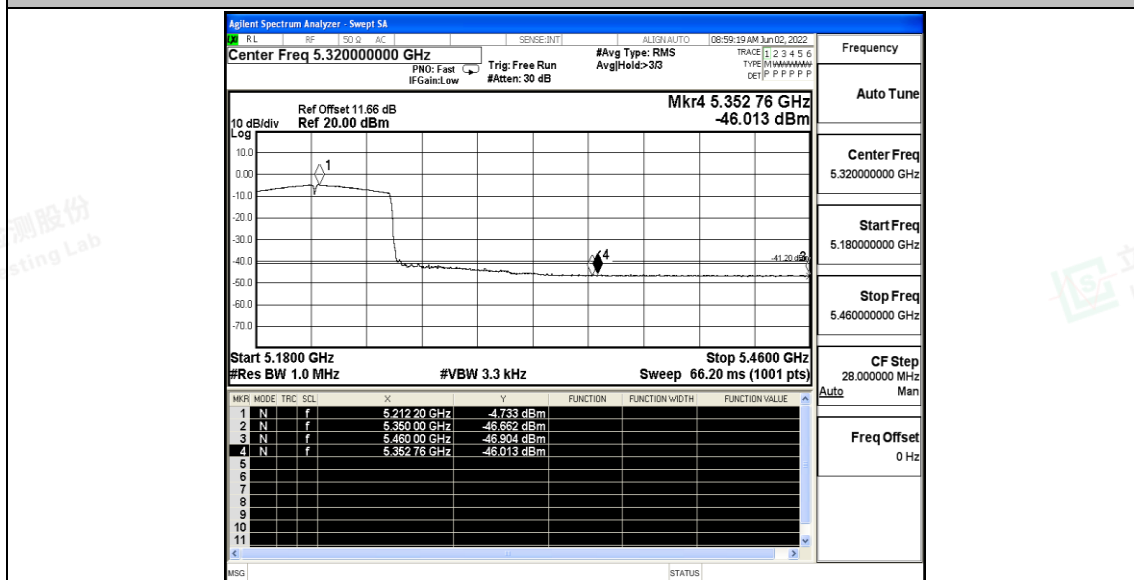
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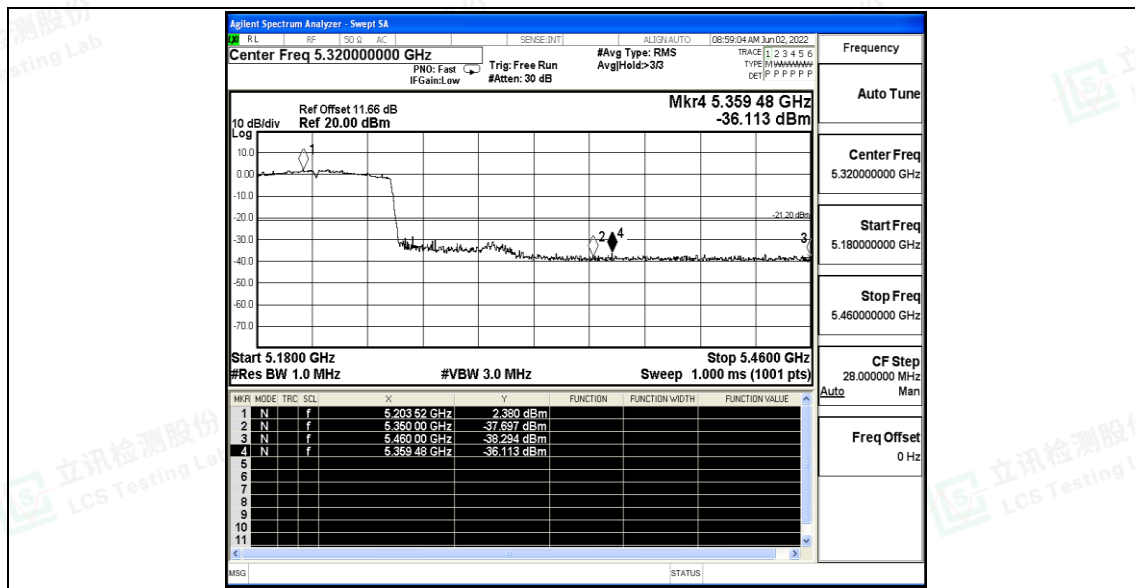


11AC80SISO_Ant_High_5210_AV



11AC80SISO_Ant_High_5210_Peak





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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	-40000	-7.722008	20	PASS
			LV	NT	-40000	-7.722008	20	PASS
			HV	NT	-40000	-7.722008	20	PASS
		5220	NV	NT	-40000	-7.662835	20	PASS
			LV	NT	-40000	-7.662835	20	PASS
			HV	NT	-40000	-7.662835	20	PASS
		5240	NV	NT	-40000	-7.633588	20	PASS
			LV	NT	-40000	-7.633588	20	PASS
			HV	NT	-40000	-7.633588	20	PASS
11AC40S ISO	Ant	5190	NV	NT	-40000	-7.707129	20	PASS
			LV	NT	-40000	-7.707129	20	PASS
			HV	NT	-40000	-7.707129	20	PASS
		5230	NV	NT	-40000	-7.648184	20	PASS
			LV	NT	-40000	-7.648184	20	PASS
			HV	NT	-40000	-7.648184	20	PASS
11AC80S ISO	Ant	5210	NV	NT	0	0	20	PASS
			LV	NT	0	0	20	PASS
			HV	NT	0	0	20	PASS

Temperature								
TestMode	Antenna	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
11AC20S ISO	Ant	5180	NV	-30	-40000	-7.722008	20	PASS
			NV	-20	-40000	-7.722008	20	PASS
			NV	-10	-40000	-7.722008	20	PASS
			NV	0	-40000	-7.722008	20	PASS
			NV	10	-40000	-7.722008	20	PASS
			NV	20	-40000	-7.722008	20	PASS
			NV	30	-40000	-7.722008	20	PASS
			NV	40	-40000	-7.722008	20	PASS
			NV	50	-40000	-7.722008	20	PASS
		5220	NV	-30	-40000	-7.662835	20	PASS
			NV	-20	-40000	-7.662835	20	PASS
			NV	-10	-40000	-7.662835	20	PASS





			NV	0	-40000	-7.662835	20	PASS
			NV	10	-40000	-7.662835	20	PASS
			NV	20	-40000	-7.662835	20	PASS
			NV	30	-40000	-7.662835	20	PASS
			NV	40	-40000	-7.662835	20	PASS
			NV	50	-40000	-7.662835	20	PASS
		5240	NV	-30	-40000	-7.633588	20	PASS
			NV	-20	-40000	-7.633588	20	PASS
			NV	-10	-40000	-7.633588	20	PASS
			NV	0	-40000	-7.633588	20	PASS
			NV	10	-40000	-7.633588	20	PASS
			NV	20	-40000	-7.633588	20	PASS
			NV	30	-40000	-7.633588	20	PASS
			NV	40	-40000	-7.633588	20	PASS
			NV	50	-40000	-7.633588	20	PASS
11AC40S ISO	Ant	5190	NV	-30	-40000	-7.707129	20	PASS
			NV	-20	-40000	-7.707129	20	PASS
			NV	-10	-40000	-7.707129	20	PASS
			NV	0	-40000	-7.707129	20	PASS
			NV	10	-40000	-7.707129	20	PASS
			NV	20	-40000	-7.707129	20	PASS
			NV	30	-40000	-7.707129	20	PASS
			NV	40	-40000	-7.707129	20	PASS
			NV	50	-40000	-7.707129	20	PASS
		5230	NV	-30	-40000	-7.648184	20	PASS
			NV	-20	-40000	-7.648184	20	PASS
			NV	-10	-40000	-7.648184	20	PASS
			NV	0	-40000	-7.648184	20	PASS
			NV	10	-40000	-7.648184	20	PASS
			NV	20	-40000	-7.648184	20	PASS
			NV	30	-40000	-7.648184	20	PASS
			NV	40	-40000	-7.648184	20	PASS
			NV	50	-40000	-7.648184	20	PASS
11AC80S ISO	Ant	5210	NV	-30	0	0	20	PASS
			NV	-20	0	0	20	PASS
			NV	-10	0	0	20	PASS
			NV	0	0	0	20	PASS
			NV	10	0	0	20	PASS
			NV	20	0	0	20	PASS
			NV	30	0	0	20	PASS



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			NV	40	0	0	20	PASS
			NV	50	0	0	20	PASS





D.6 Duty Cycle

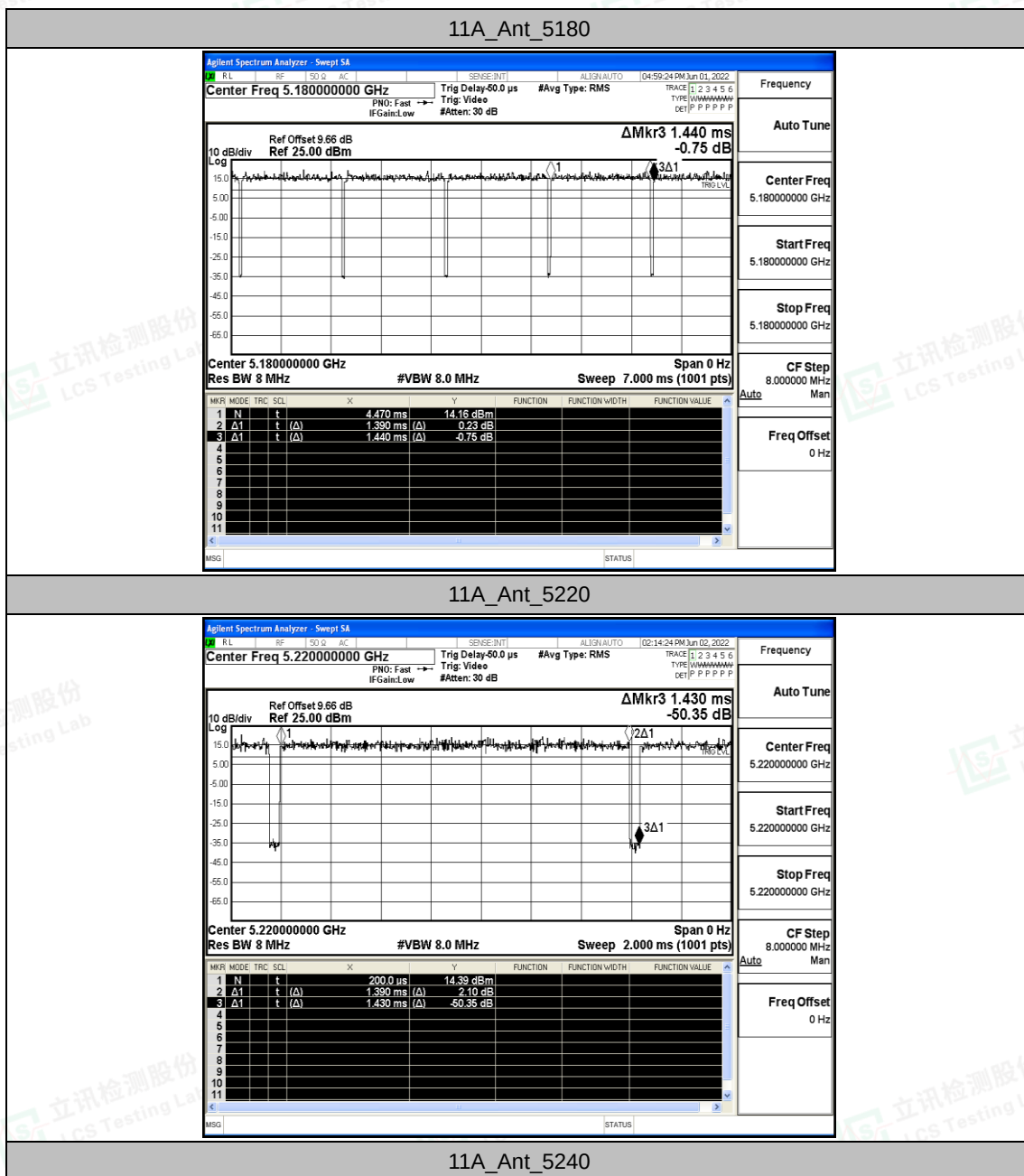
Test Result

TestMode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Limit	Verdict
11A	Ant	5180	1.39	1.44	96.53	---	---
		5220	1.39	1.43	97.20	---	---
		5240	1.39	1.44	96.53	---	---
11N20SISO	Ant	5180	1.31	1.35	97.04	---	---
		5220	1.30	1.35	96.30	---	---
		5240	1.30	1.34	97.01	---	---
11N40SISO	Ant	5190	0.65	0.69	94.20	---	---
		5230	0.65	0.69	94.20	---	---
11AC20SISO	Ant	5180	1.31	1.36	96.32	---	---
		5220	1.31	1.35	97.04	---	---
		5240	1.31	1.36	96.32	---	---
11AC40SISO	Ant	5190	0.65	0.70	92.86	---	---
		5230	0.65	0.70	92.86	---	---
11AC80SISO	Ant	5210	0.32	0.37	86.49	---	---





Test Graphs

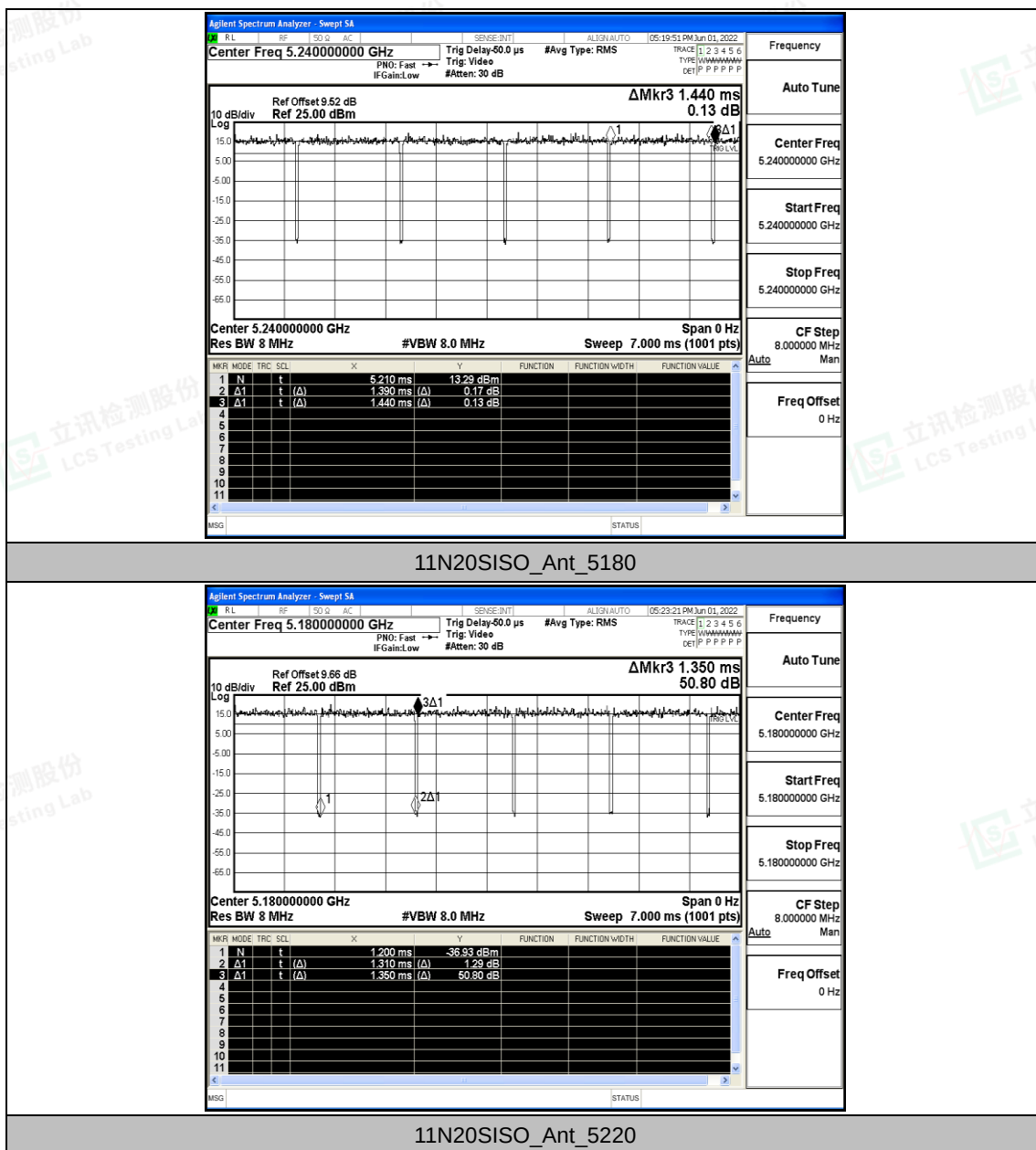


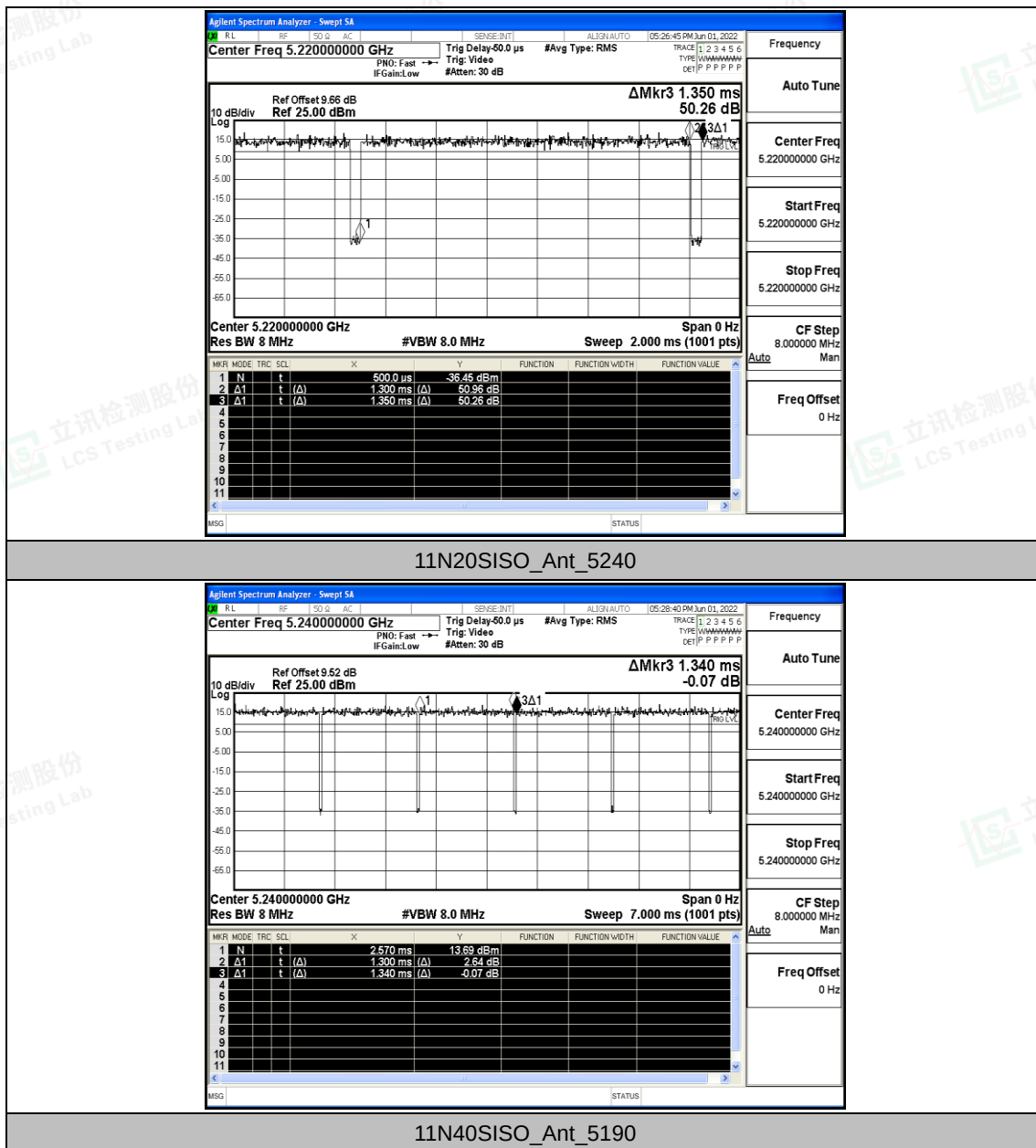
Shenzhen LCS Compliance Testing Laboratory Ltd.

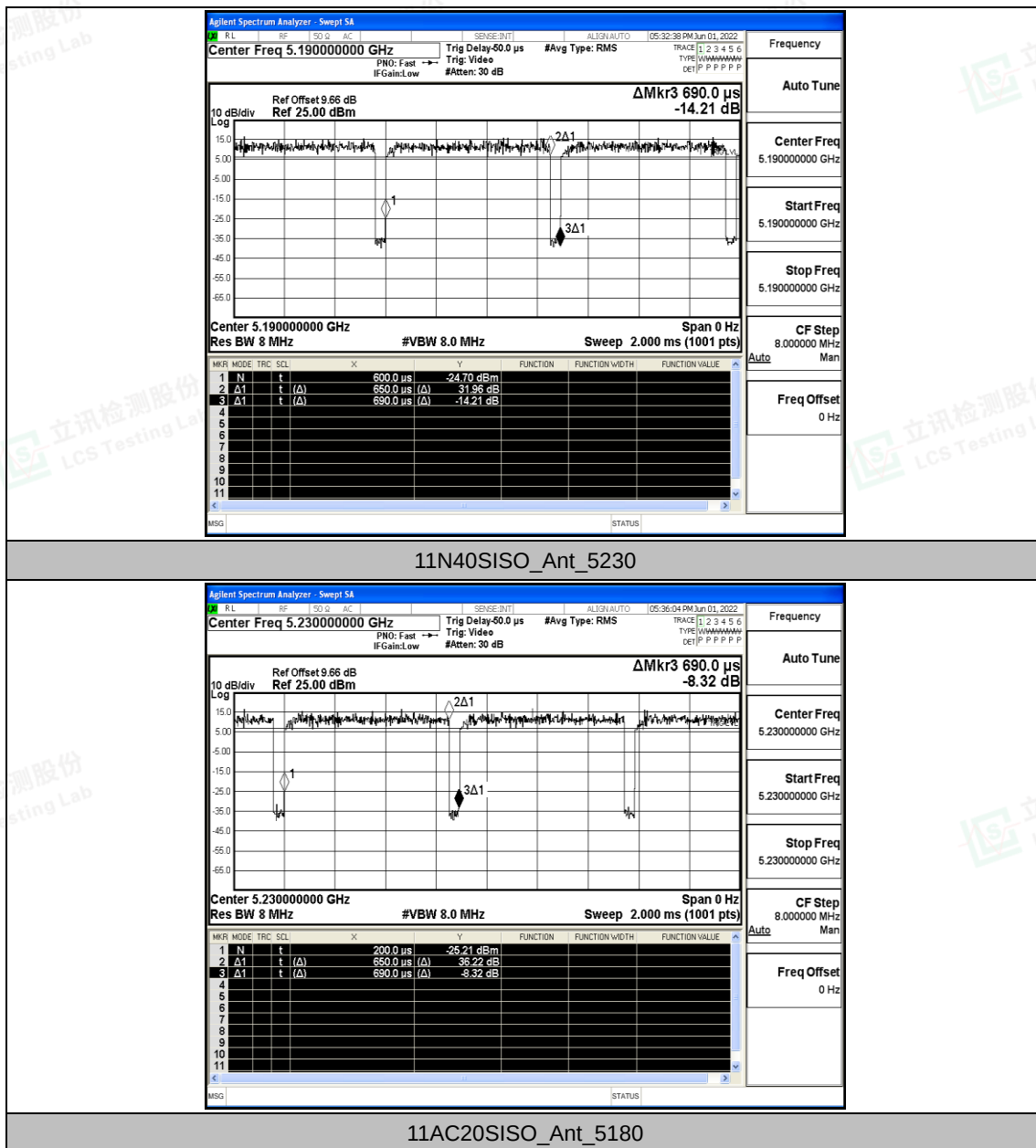
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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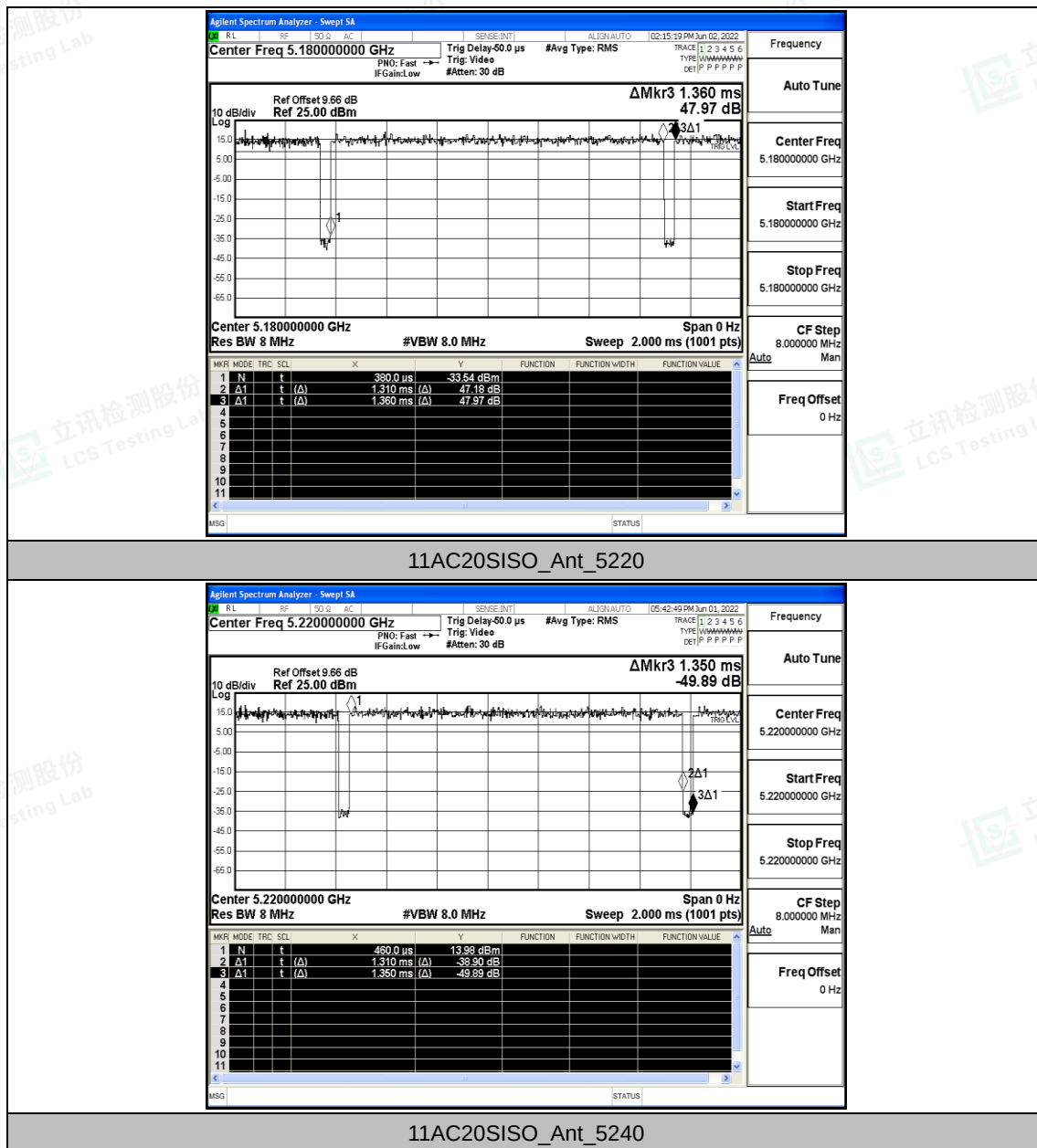


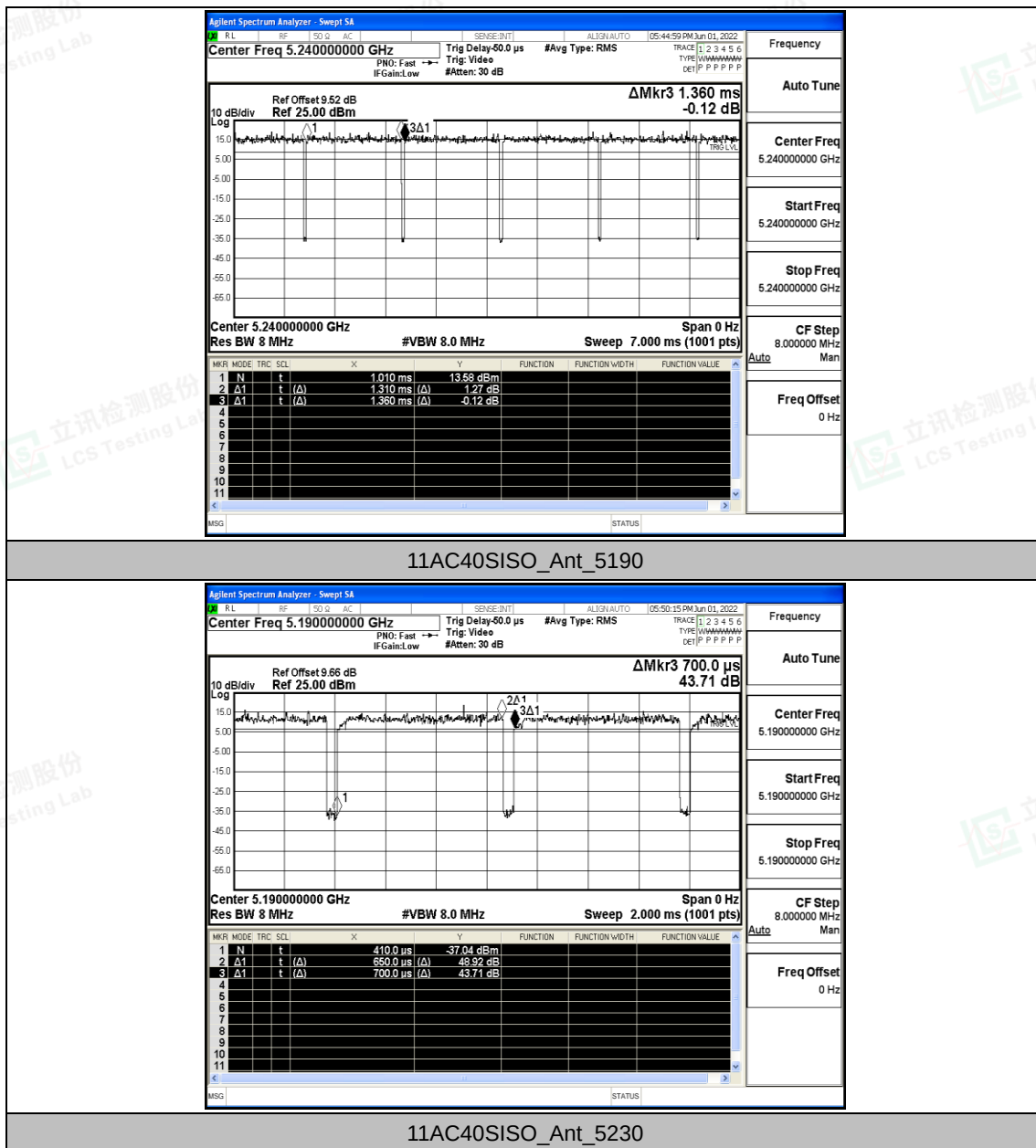
Shenzhen LCS Compliance Testing Laboratory Ltd.

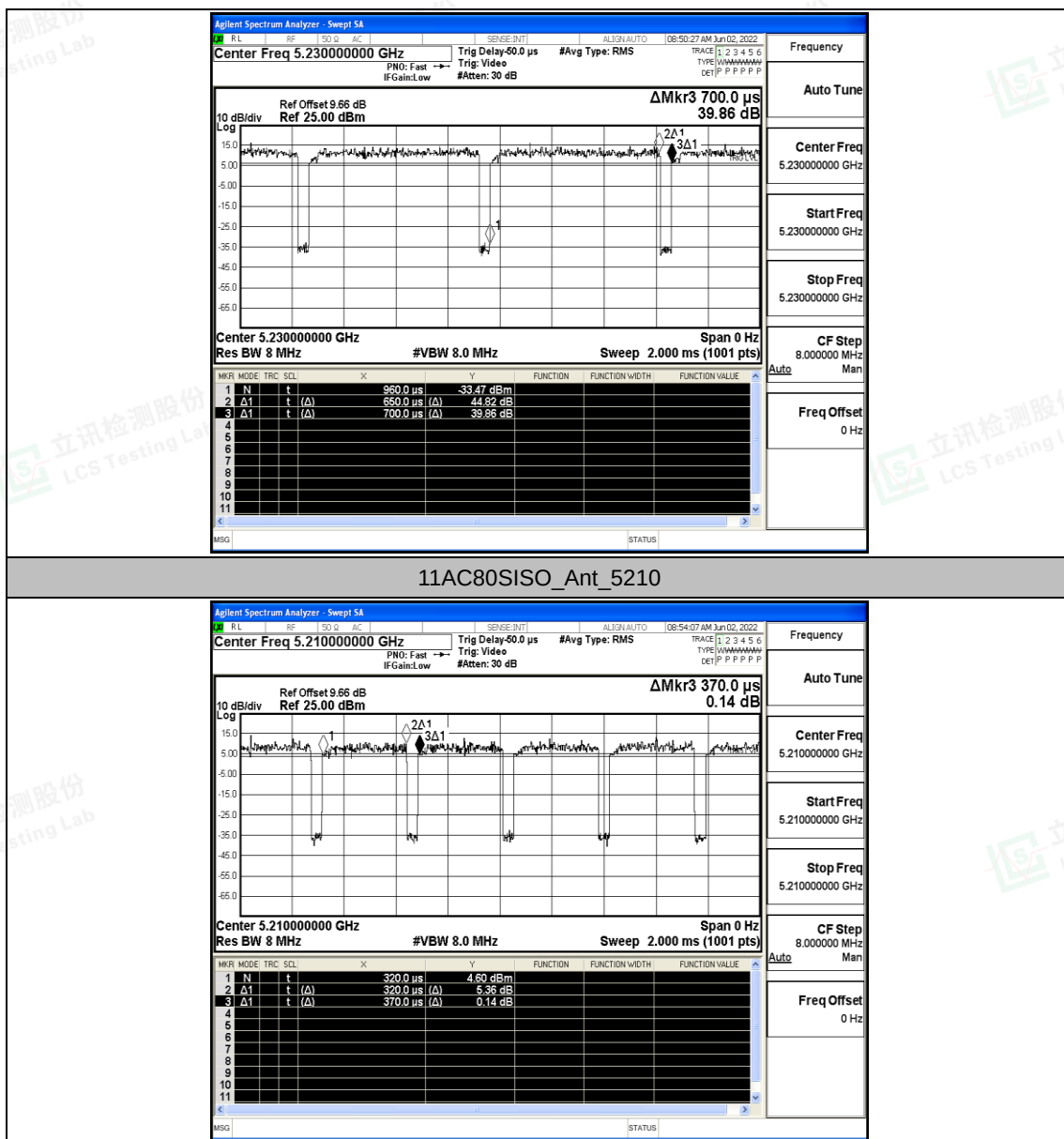
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